WKE

PROJECT ID: **2310-09-71**

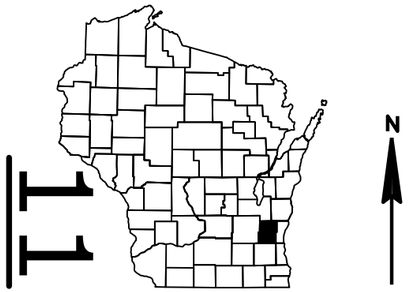
COUNTY: **WASHINGTON**

FEBRUARY 2026

ORDER OF SHEETS

Section No.	1	Title
Section No.	2	Typical Sections and Details
Section No.	3	Estimate of Quantities
Section No.	3	Miscellaneous Quantities
~~Section No.~~	~~4~~	~~Right of Way Plat~~
Section No.	5	Plan and Profile
Section No.	6	Standard Detail Drawings
Section No.	7	Sign Plates
Section No.	8	Structure Plans
Section No.	9	Computer Earthwork Data
Section No.	9	Cross Sections

TOTAL SHEETS = 570



DESIGN DESIGNATION

A.A.D.T.	2026	=	22,630
A.A.D.T.	2046	=	23,830
D.H.V.		=	4.9
D.D.		=	57/43
T.		=	6.3%
DESIGN SPEED		=	55 MPH
ESALS		=	3,410,000

CONVENTIONAL SYMBOLS

PLAN

- CORPORATE LIMITS
- PROPERTY LINE
- LOT LINE
- LIMITED HIGHWAY EASEMENT
- EXISTING RIGHT OF WAY
- PROPOSED OR NEW R/W LINE
- SLOPE INTERCEPT
- REFERENCE LINE (300'EB')
- EXISTING CULVERT
- PROPOSED CULVERT (Box or Pipe)
- COMBUSTIBLE FLUIDS (CAUTION)
- MARSH AREA
- WOODED OR SHRUB AREA

PROFILE

- GRADE LINE
- ORIGINAL GROUND
- MARSH OR ROCK PROFILE (To be noted as such) (ROCK)
- SPECIAL DITCH (LABEL)
- GRADE ELEVATION (95.36)
- CULVERT (Profile View)

UTILITIES

- ELECTRIC (E)
- FIBER OPTIC (FO)
- GAS (G)
- SANITARY SEWER (SAN)
- STORM SEWER (SS)
- TELEPHONE (T)
- WATER (W)
- UTILITY PEDESTAL
- POWER POLE
- TELEPHONE POLE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

HARTFORD TO JACKSON

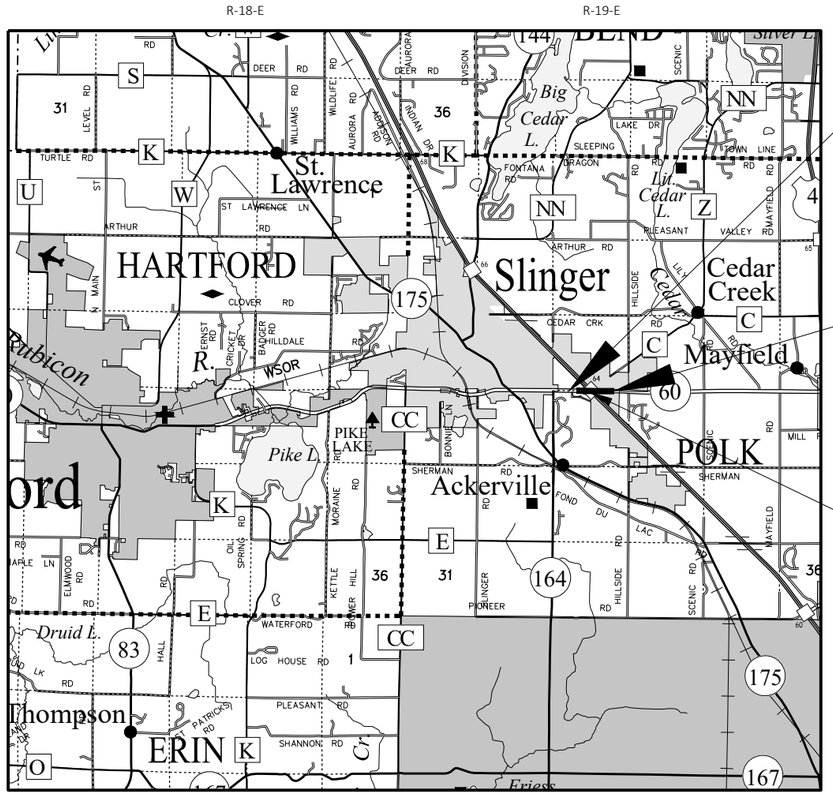
IH 41 I/C

STH 60

WASHINGTON COUNTY

STATE PROJECT NUMBER
2310-09-71

STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
2310-09-71	WISC 2026178	1



LAYOUT

SCALE 0 2 MI

TOTAL NET LENGTH OF CENTERLINE = 0.495 MI

HORIZONTAL POSITIONS SHOWN ON THIS PLAN ARE WISCONSIN COORDINATE REFERENCE SYSTEM (WISCRS), WASHINGTON COUNTY, NAD83 (2011), IN U.S. SURVEY FEET. POSITIONS SHOWN ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES ARE THE SAME AS GROUND DISTANCES.

ELEVATIONS ARE REFERENCED TO NAVD 88 (2012). GPS DERIVED ELEVATIONS ARE BASED ON GEOID 12A.

ORIGINAL PLANS PREPARED BY

Michael Baker INTERNATIONAL

WISCONSIN PROFESSIONAL ENGINEER
GEORGIA VERGOU
E-41470
MILWAUKEE
WI

DATE: 10/31/2025 Georgia Vergou
(Professional Engineer Signature)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PREPARED BY

Surveyor	KAPUR & ASSOCIATES
Designer	MICHAEL BAKER INTERNATIONAL
Project Manager	DAVID PITTMAN, P.E.
Regional Examiner	REGIONAL EXAMINER
Regional Supervisor	REGIONAL SUPERVISOR

APPROVED FOR THE DEPARTMENT

DATE: 12/15/2025 (Signature)

E

UTILITIES CONTACTS

FLINT HILLS RESOURCES,LC
GAS/PETROLEUM
TIM KAROW
N4240 HIGHWAY 26
WAUPUN, WI 53963
PHONE: (920) 296-8899
EMAIL: TIM.KAROW@FHR.COM

FRONTEIR COMMUNICATIONS OF WI, LLC
COMMUNICATION LINE
CHRIS POLLACK
521 4TH ST
WAUSAU, WI 54403
PHONE: (715) 847-1240
EMAIL: CHRISTOPHER.POLLACK@FTR.COM

VERIZON BUSINESS
COMMUNICATION LINE
RJ CICATELLO JR.
15725 WEST RYERSON RD
NEW BERLIN, WI 53151
PHONE: (262) 232-1323
EMAIL: RANDY.CICATELLO@VERIZON.COM

WE ENERGIES
ELECTRICITY
JOE FELLENZ
W140 N9100 LILLY RD
MENOMONEE FALLS, WI 53051
PHONE: (414) 322-8928
EMAIL: WE-UTILITY-RELOCATIONS@WE-ENERGIES.COM

WIN TECHNOLOGY
COMMUNICATION LINE
ERIC BECKER
4955 BULLIS FARM RD
EAU CLAIRE, WI 54701
PHONE: (715) 797-2724
EMAIL: ERIC.BECKER@WINTECHNOLOGY.COM

WE ENERGIES
GAS
JACOB HULBERT
500 S 116TH ST
WEST ALLIS, WI 53214
PHONE: (414) 651-1577
EMAIL: WE-UTILITY-RELOCATIONS@WE-ENERGIES.COM

WISCONSIN DNR LIAISON

RYAN PAPPAS
SOUTHEAST REGION
1027 WEST ST. PAUL AVE
MILWAUKEE, WI 53233
PHONE: 414-750-7495
EMAIL: RYAN.PAPPAS@WISONSIN.GOV

CITY OF SLINGER CONTACT

JAMES HAGGERTY
DIRECTOR OF PUBLIC WORKS
300 SLINGER RD - P.O. BOX 227
SLINGER, WI 53086
PHONE: (262) 644-5265
EMAIL: JHAGGERTY@VI.SLINGER.WI.GOV

COUNTY HIGHWAY COMMISSIONER

SCOTT SCHMIDT
WASHINGTON COUNTY ENGINEER/SURVEYOR
900 LANG ST
WEST BEND, WI 53090
PHONE: (262) 335-6881
EMAIL: SCOTT.SCHMIDT@GO.WASHINGTON.WI.US

DESIGN PROJECT MANAGER

DAVID PITTMAN
SOUTHEAST REGION
141 NW BARSTOW ST
WAUKESHA, WI 53188
PHONE: 262-548-6439
EMAIL: DAVID.PITTMAN@DOT.WI.GOV

DESIGN PROJECT LEADER

GEORGIA VERGOU-ORNEK
MICHAEL BAKERINTERNATIONAL
250 E. WISCONSIN AVE, SUITE 1725
MILWAUKEE, WI 53212
PHONE: 414-615-3804
EMAIL: GEORGIA.VERGOUORNEK@MBAKERINTL.COM

GENERAL NOTES

THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS AS SHOWN ON THE PLANS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT AREA THAT ARE NOT SHOWN. COORDINATE CONSTRUCTION ACTIVITIES WITH A CALL TO DIGGERS HOTLINE AND/OR A DIRECT CALL TO THE UTILITIES THAT HAVE FACILITIES IN THE AREA. NOT ALL UTILITIES ARE MEMBERS OF DIGGERS HOTLINE.

CURB AND GUTTER GRADES ARE GIVEN TO THE FLANGE OF THE CURB AND GUTTER OR THEORETICAL FLANGE POINT OF INTEGRAL CURB AND GUTTER. CURB AND GUTTER RADII ARE MEASURED TO THE FLANGE OF CURB AND GUTTER OR THEORETICAL FLANGE POINT OF INTEGRAL CURB AND GUTTER.

FOR INLET AND CATCH BASIN STRUCTURES LOCATED IN THE CURB OR IN FRONT OF BARRIER , STATION, OFFSET, AND ELEVATIONS ARE GIVEN TO THE FLOW LINE. MH STATION, OFFSET, AND ELEVATIONS ARE GIVEN TO THE CENTER OF STRUCTURE. SEE CONSTRUCTION DETAILS.

CONTACT THE PROJECT ENGINEER AND SCOTT M. SCHMIDT, WASHINGTON COUNTY SURVEYOR, AT LEAST TWO WEEKS PRIOR TO WORK NEAR ANY PUBLIC SURVEY MONUMENT.

VERIFY EXISTING PAVEMENT ELEVATIONS AT ALL TIE-INS TO EXISTING PAVEMENT PRIOR TO CONSTRUCTION. NOTIFY ENGINEER IF A DISCREPANCY IS FOUND BETWEEN PROPOSED PLAN ELEVATIONS AND EXISTING PAVEMENT ELEVATIONS.

THE CONTRACTOR'S PAVING OPERATION SHALL BE CONSISTENT WITH THE TYPICAL SECTIONS AND CONSTRUCTED TO PREVENT LONGITUDINAL JOINTS FROM BEING LOCATED WITHIN A DRIVING, TURNING, PASSING, OR PARKING LANE.

SAWCUT EXISTING ASPHALT AND CONCRETE PAVEMENT AT THE MATCHLINE AS INDICATED ON THE PLAN OR AS DIRECTED BY THE ENGINEER.

RESHAPE, RESTORE, AND FINISH ALL PREVIOUSLY GRASSED AREAS DISTURBED BY OPERATIONS OUTSIDE OF THE NORMAL CONSTRUCTION LIMITS AT NO EXPENSE TO THE DEPARTMENT.

DISTURBED AREAS WITHIN THE RIGHT OF WAY ARE TO BE TOPSOILED (SALVAGED), FERTILIZED, SEEDED, AND MULCHED AS DIRECTED BY THE ENGINEER.

PRIOR TO PLACEMENT OF BEAM GUARD OR MGS GUARDRAIL THE SHOULDERS SHALL BE IN PLACE, SHAPED AND COMPACTED UNLESS SHOWN OTHERWISE.

WHEN DEFINING THE PAVEMENT STRUCTURE, THE BOTTOM OF THE BASE AGGREGATE DENSE IS CONSIDERED THE SUBGRADE LINE. THE SELECT CRUSHED MATERIAL LAYER IS A SUBGRADE IMPROVEMENT.

BACKFILL ALL OPENINGS AND HOLES LOCATED WITHIN THE ROADWAY RESULTING FROM REMOVALS OR ABANDONMENTS WITH GRANULAR BACKFILL UNLESS THE PLANS PROVIDE FOR ALTERNATE BACKFILL.

DO NOT REMOVE ANY TREES OR SHRUBS WITHOUT APPROVAL OF THE ENGINEER.

ALL SIGN LOCATIONS SHALL BE REVIEWED BY THE ENGINEER PRIOR TO INSTALLATION.

EXISTING DRIVEWAYS AND FIELD ENTRANCES SHALL BE RESTORED IN KIND AS DIRECTED BY THE ENGINEER IN THE FIELD AND AT THE LOCATION DETERMINED BY THE ENGINEER.

THE EXACT LOCATION OF PRIVATE ENTRANCES IS TO BE DETERMINED IN THE FIELD BY THE ENGINEER.

GENERAL DRAINAGE NOTES

VERIFY THE EXISTING STORM SEWER SYSTEM CONNECTION LOCATIONS AND ELEVATIONS BEFORE ORDERING DRAINAGE STRUCTURES AND PIPES. NOTIFY THE ENGINEER OF ANY DEVIATIONS FROM THE INFORMATION SHOWN ON THE PLANS BEFORE INSTALLING THE PROPOSED STORM SEWER.

ORDER OF SECTION 2 DETAIL SHEETS

GENERAL NOTES
PROJECT OVERVIEW
TYPICAL SECTIONS
CONSTRUCTION DETAILS
REMOVAL PLAN
PLAN DETAILS
EROSION CONTROL
STORM SEWER PLAN
PERMANENT SIGNING
TRAFFIC SIGNAL PLAN
PAVEMENT MARKING
TRAFFIC CONTROL
DETOUR PLAN
ALIGNMENT PLAN
SURVEY CONTROL

CONSTRUCT HMA PAVEMENT WITH THE FOLLOWING LAYERS:			
PAVEMENT TYPE	TOTAL LAYER PAVEMENT THICKNESS	LAYERS	NOMINAL MAXIMUM SIZE GRADATION
5 MT 58-28 H 5 MT 58-28 H	3-INCHES	1 ½" UPPER LAYER 1 ½" LOWER LAYER	9.5 MM 9.5 MM
5 MT 58-28 H 3 MT 58-28 H	4-INCHES	1 ½" UPPER LAYER 2 ½" LOWER LAYER	9.5 MM 19.0 MM
5 MT 58-28 H 3 MT 58-28 H 3 MT 58-28 H	6-INCHES	1 ½" UPPER LAYER 2 ¼" UPPER LOWER LAYER 2 ¼" LOWER LOWER LAYER	9.5 MM 19.0 MM 19.0 MM

DIGGERS HOTLINE
Dial 811 or (800)242-8511
www.DiggersHotline.com

2

N

VILLAGE OF SLINGER

TOWN OF POLK

AMERICAN EAGLE DR

COUNTY C

HILLSIDE RD (CTH C)

LOVERS LN (STH 164)

STH 60

BEGIN PROJECT
STA 341+00.00
Y=148,201.694
X=343,257.556

END PROJECT
STA 367+13.00

BEGIN CONSTRUCTION
STA 282'B'+31.09
RAMP RECONSTRUCTION

END CONSTRUCTION
STA 282'B'+60
RAMP PAVEMENT
REPLACEMENT

END CONSTRUCTION
STA 281'B'+17.13
RAMP WIDENING

BEGIN CONSTRUCTION
STA 278'B'+73.61
RAMP WIDENING
AND PAVEMENT
REPLACEMENT

VACANT DOT PARCEL (POTENTIAL STAGING LOCATION)

EXISTING R/W

VACANT DOT PARCEL
(POTENTIAL STAGING LOCATION)

END CONSTRUCTION
STA 287'C'+55.15
RAMP RESURFACING

BEGIN CONSTRUCTION
STA 277'D'+40
RAMP RESURFACING

STRUCTURE B-66-103
BRIDGE WIDENING
AND OVERLAY

IH41 NORTHBOUND LOOP RAMP & STH 60WB:
PLACE HIGH FRICTION SURFACE TREATMENT

BEGIN CONSTRUCTION
STA 270'C'+12.78
RAMP RESURFACING

END CONSTRUCTION
STA 293'D'+25.70

STRUCTURE B-66-102

END CONSTRUCTION
STA 273'E'+27.62
RAMP RESURFACING

BEGIN CONSTRUCTION
STA 267'E'+61.11
RAMP RESURFACING

BEGIN CONSTRUCTION
STA 266'A'+23.84
RAMP RECONSTRUCTION

INTERSTATE 41

IH 41 NB

IH 41 SB

LEGEND

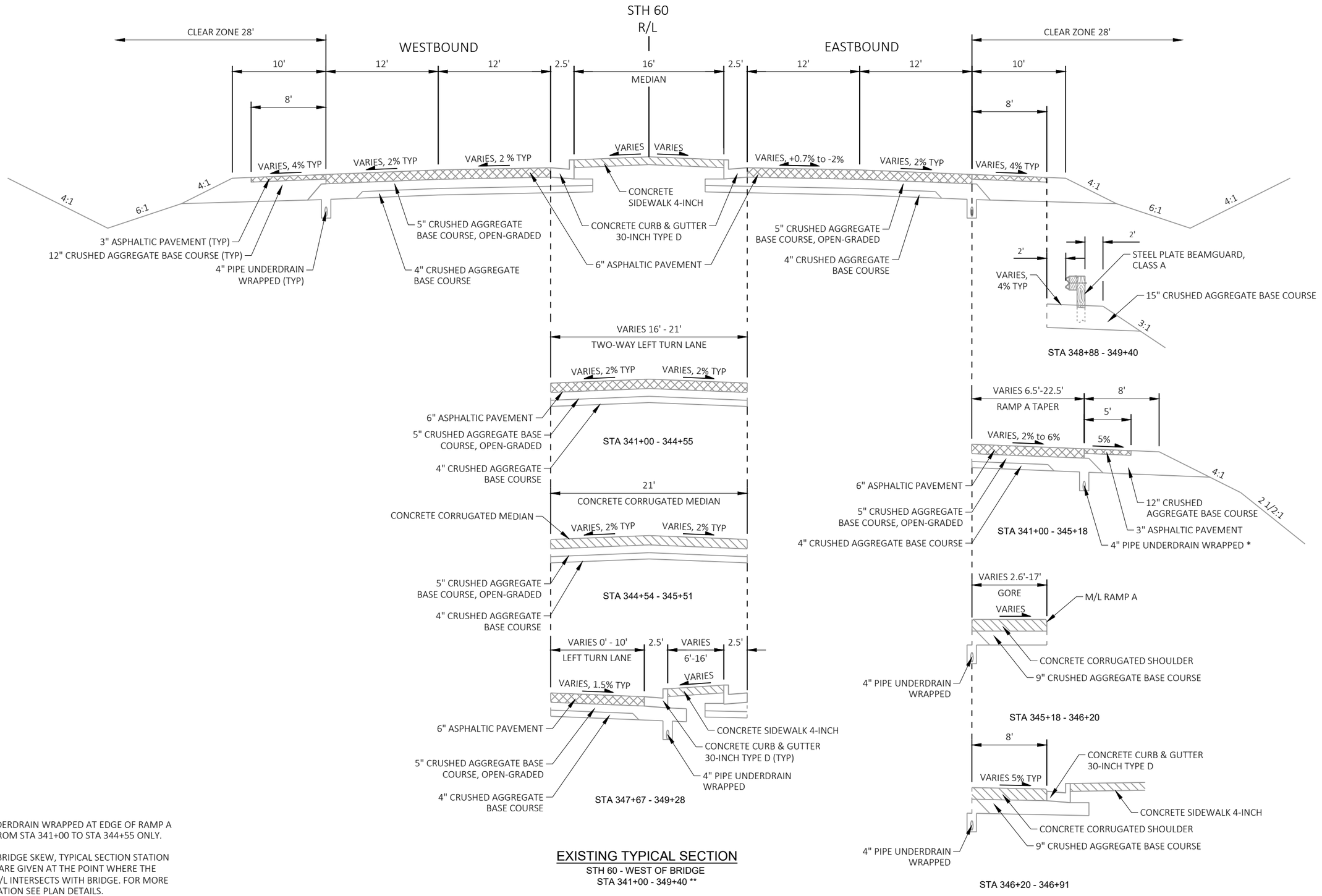
- RAMP PAVEMENT REPLACEMENT AND WIDENING
- RAMP FULL RECONSTRUCTION
- ROAD RESURFACING
- APPROACH SLAB
- BRIDGE DECK WIDENING
- BRIDGE OVERLAY
- HIGH FRICTION SURFACE TREAMENT

PROJECT NO: 2310-09-71	HWY: STH 60	COUNTY: WASHINGTON	PROJECT OVERVIEW	SHEET 3	E

FILE NAME : K:\195704_STH 60 AND IH 41 INTERSECTION\3.0 DELIVERABLES\3.02 ROADWAY\AUTOCAD\SHEETS\020201-PO.DWG
LAYOUT NAME - 01

PLOT DATE : 10/15/2025 1:20 PM PLOT BY : OLSEN, CASSIE PLOT NAME : PLOT SCALE : 1 IN:400 FT

WISDOT/CADDS SHEET 42



NOTES:

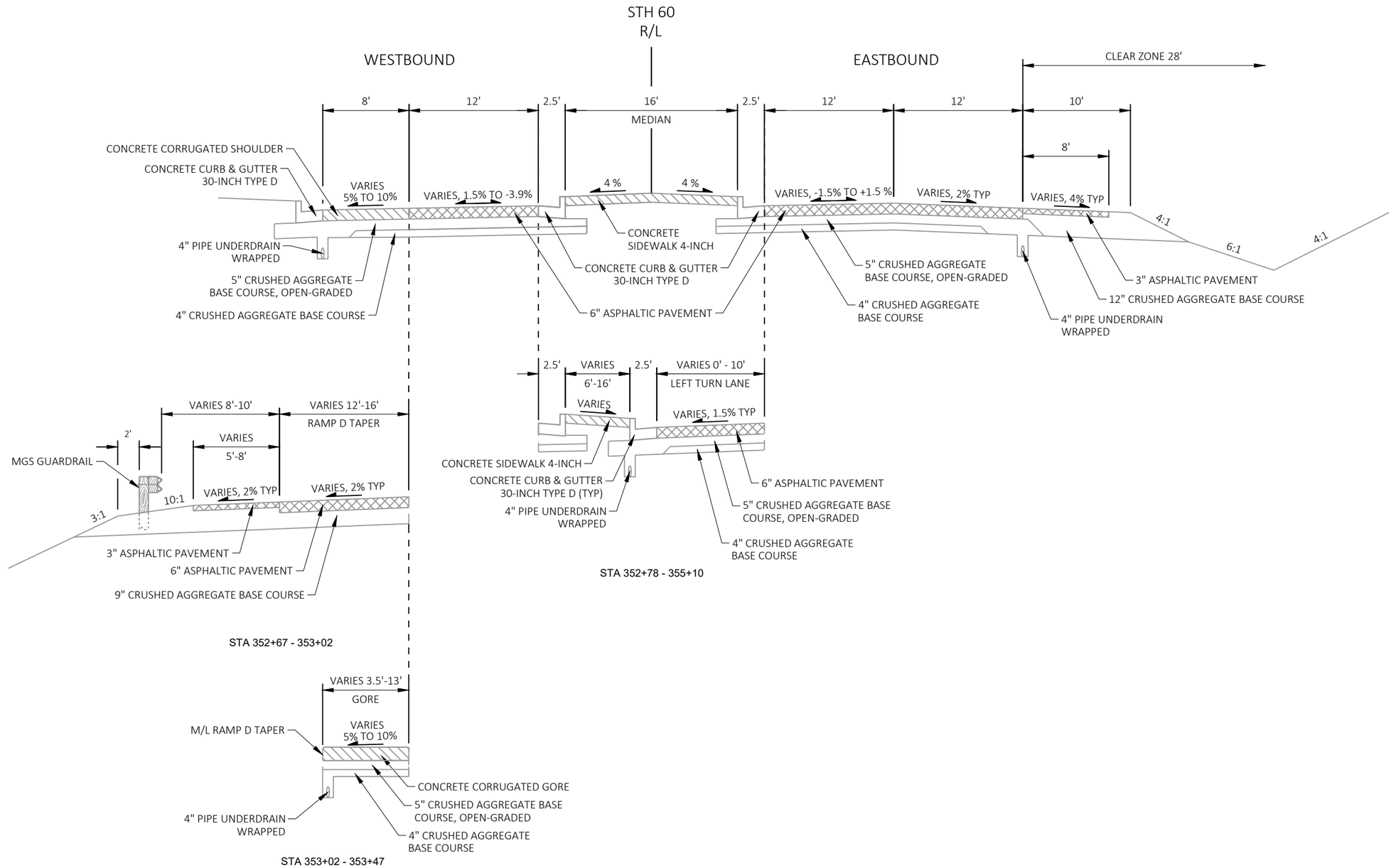
* PIPE UNDERDRAIN WRAPPED AT EDGE OF RAMP A TAPER FROM STA 341+00 TO STA 344+55 ONLY.

** DUE TO BRIDGE SKEW, TYPICAL SECTION STATION RANGES ARE GIVEN AT THE POINT WHERE THE STH 60 R/L INTERSECTS WITH BRIDGE. FOR MORE INFORMATION SEE PLAN DETAILS.

EXISTING TYPICAL SECTION

STH 60 - WEST OF BRIDGE
STA 341+00 - 349+40 **

PROJECT NO: 2310-09-71	HWY: STH 60	COUNTY: WASHINGTON	TYPICAL SECTIONS	SHEET 4	E



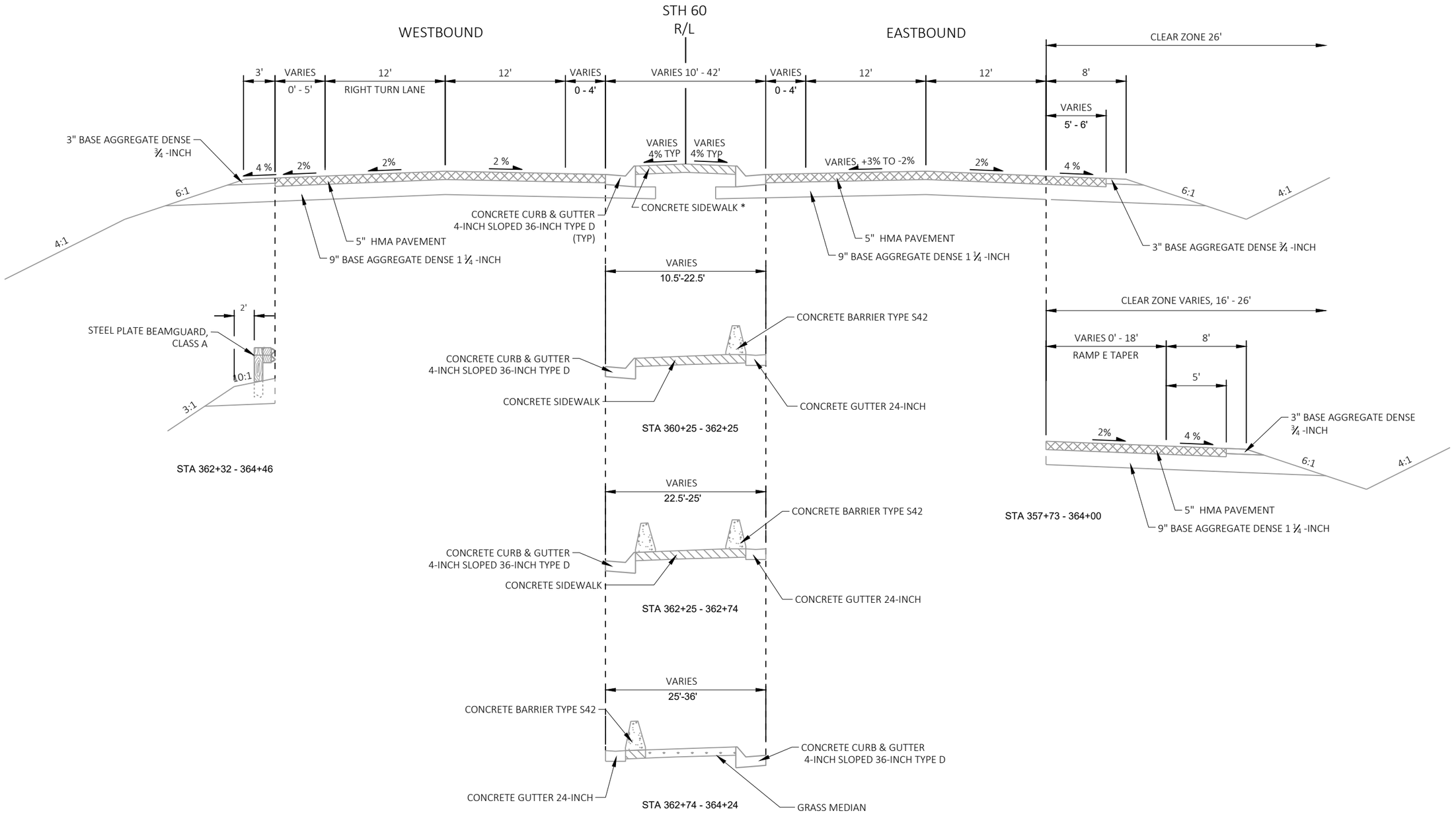
NOTES:

** DUE TO BRIDGE SKEW, TYPICAL SECTION STATION RANGES ARE GIVEN AT THE POINT WHERE THE STH 60 R/L INTERSECTS WITH BRIDGE. FOR MORE INFORMATION SEE PLAN DETAILS.

EXISTING TYPICAL SECTION

STH 60 - EAST OF BRIDGE
STA 352+67 - 356+84 **

PROJECT NO: 2310-09-71	HWY: STH 60	COUNTY: WASHINGTON	TYPICAL SECTIONS	SHEET 5	E



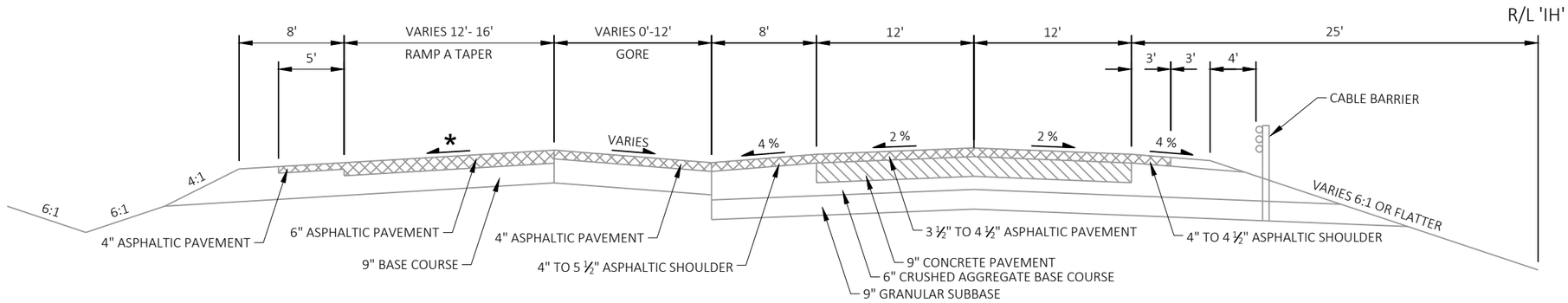
EXISTING TYPICAL SECTION

STH 60 - EAST OF BRIDGE
STA 356+84 - 367+13

NOTES:

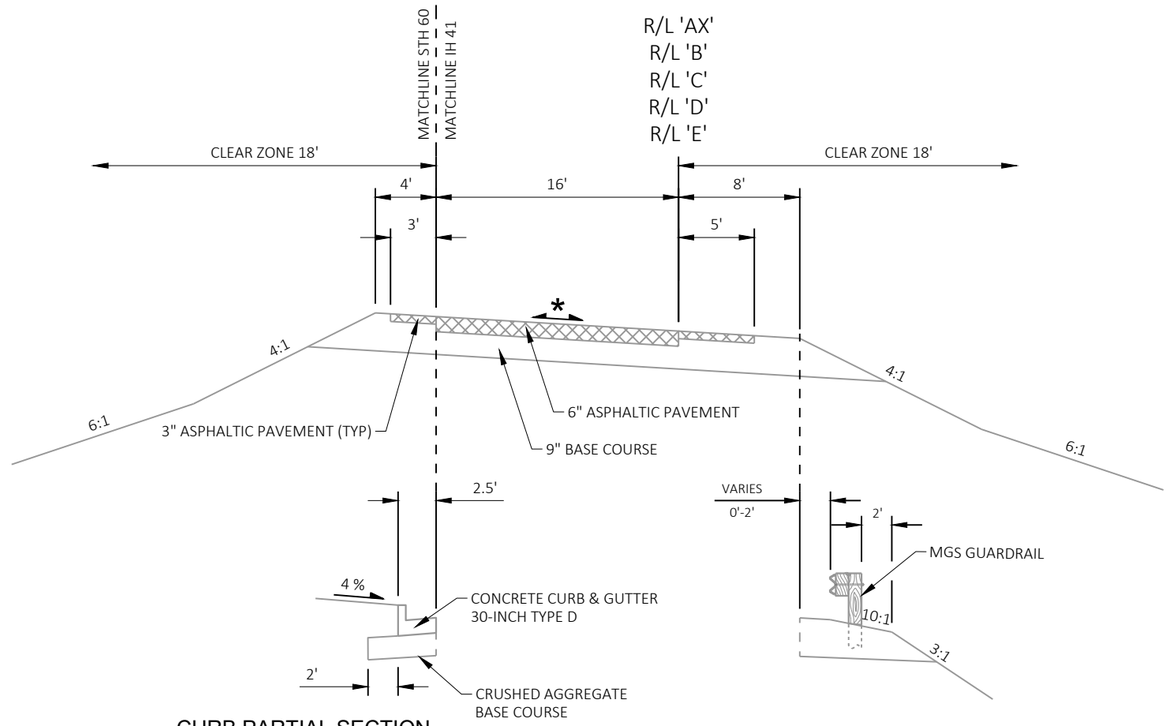
* GRASS MEDIAN STA 362+74 - 367+13

PROJECT NO: 2310-09-71	HWY: STH 60	COUNTY: WASHINGTON	TYPICAL SECTIONS	SHEET 6	E



EXISTING HALF TYPICAL SECTION

IH 41 SOUTHBOUND
STA 266+74 'IH' - 270+86 'IH'



CURB PARTIAL SECTION

STA 270+13 'C' - 279+58 'C'
STA 283+69 'D' - 292+83 'D'

GUARDRAIL PARTIAL SECTION

STA 292+49 'D' - 293+26 'D'

NOTES:

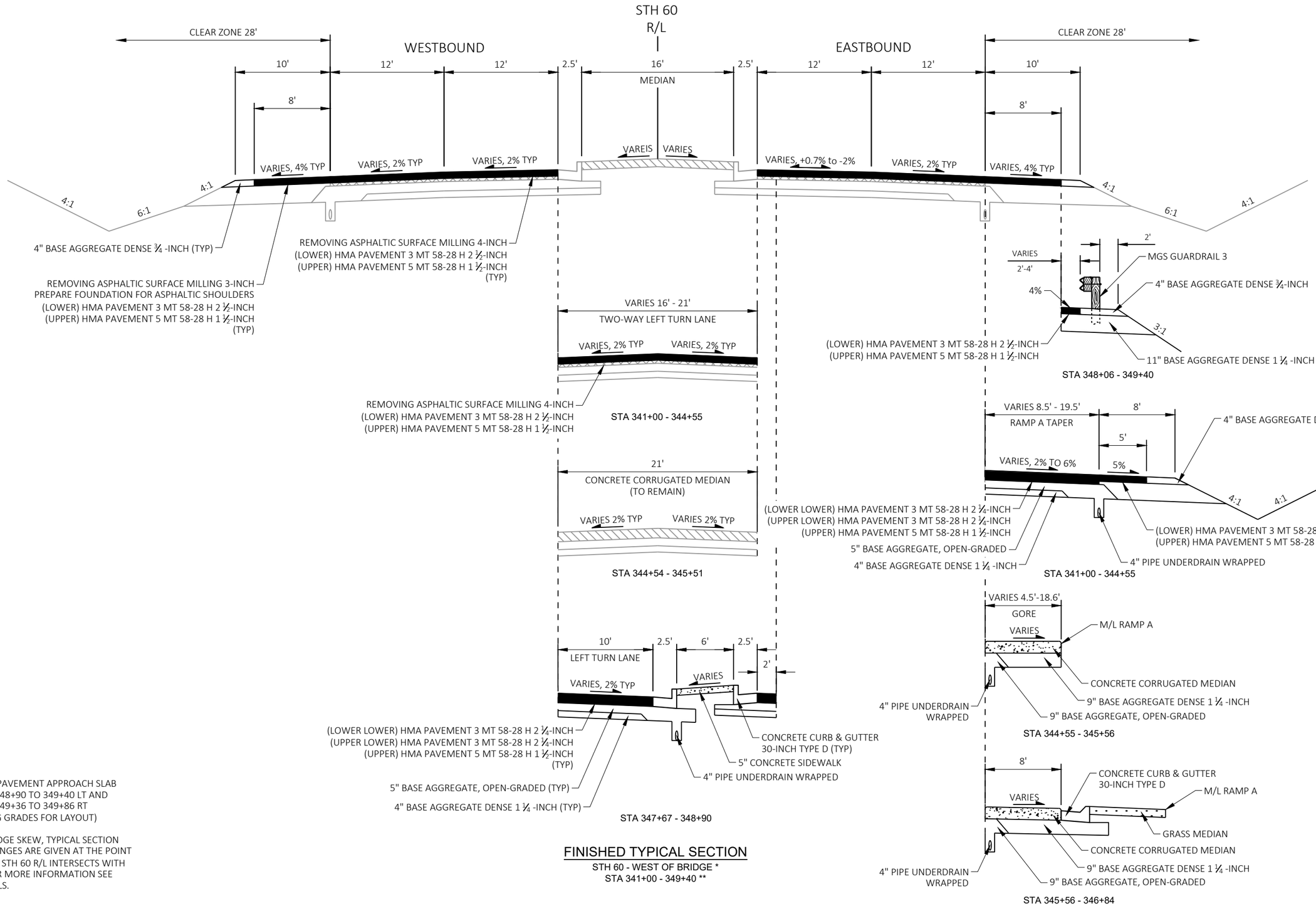
* SEE REMOVAL PLAN FOR RAMP A EXISTING ALIGNMENT (R/L 'AX').

EXISTING TYPICAL SECTION

RAMPS A, B, C, D, AND E

* STA 555+57 'AX' - 564+89 'AX'	* 7.5%
STA 278+74 'B' - 282+60 'B'	* 7.1%
STA 270+13 'C' - 287+55 'C'	* 8.0%
STA 277+40 'D' - 293+26 'D'	* 8.0%
STA 267+61 'E' - 273+28 'E'	* 8.0%

PROJECT NO: 2310-09-71	HWY: STH 60	COUNTY: WASHINGTON	TYPICAL SECTIONS	SHEET 7	E



FINISHED TYPICAL SECTION

STH 60 - WEST OF BRIDGE *
STA 341+00 - 349+40 **

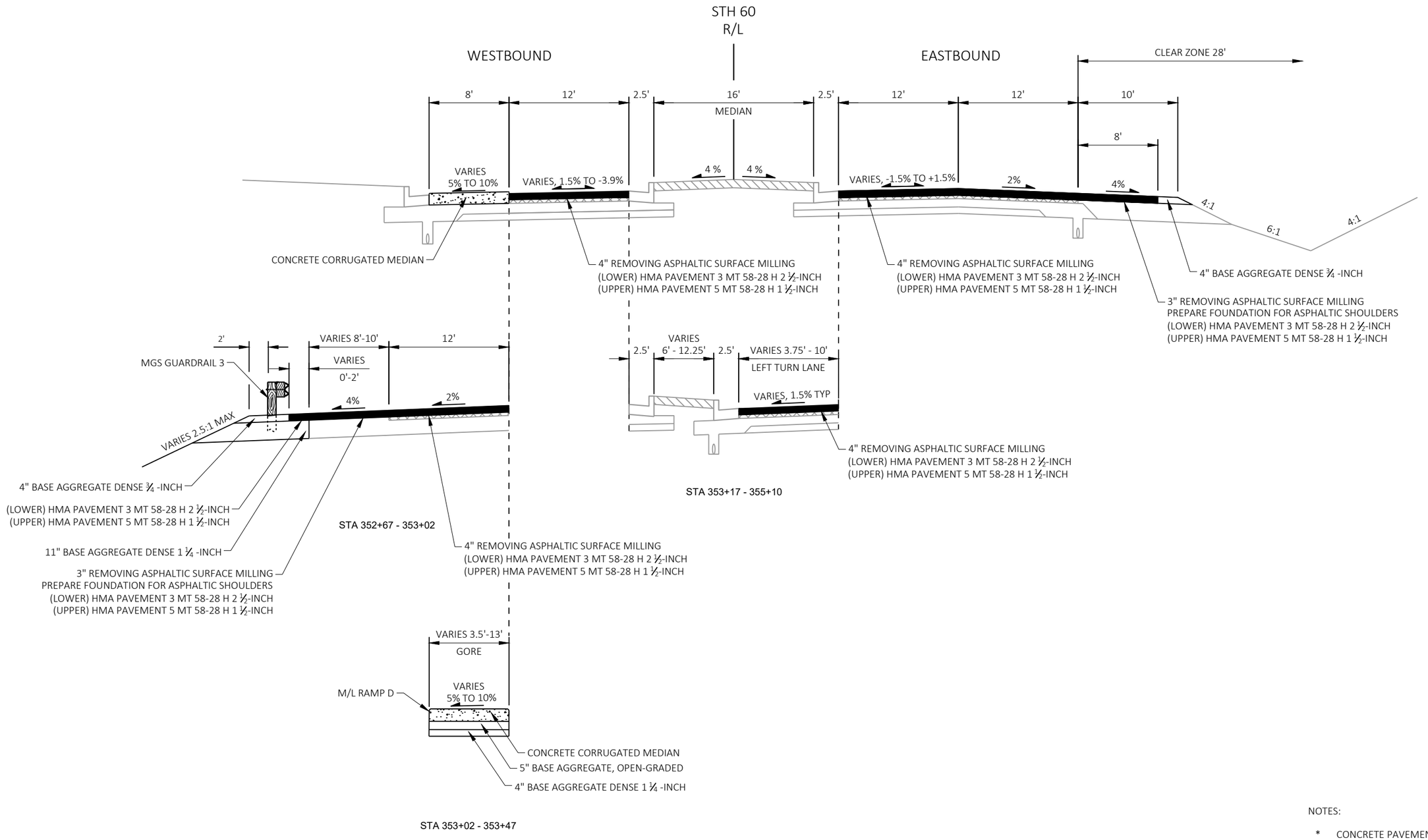
NOTES:

* CONCRETE PAVEMENT APPROACH SLAB FROM STA 348+90 TO 349+40 LT AND FROM STA 349+36 TO 349+86 RT (SEE PAVING GRADES FOR LAYOUT)

** DUE TO BRIDGE SKEW, TYPICAL SECTION STATION RANGES ARE GIVEN AT THE POINT WHERE THE STH 60 R/L INTERSECTS WITH BRIDGE. FOR MORE INFORMATION SEE PLAN DETAILS.

PROJECT NO: 2310-09-71	HWY: STH 60	COUNTY: WASHINGTON	TYPICAL SECTIONS	SHEET 8	E

2



FINISHED TYPICAL SECTION

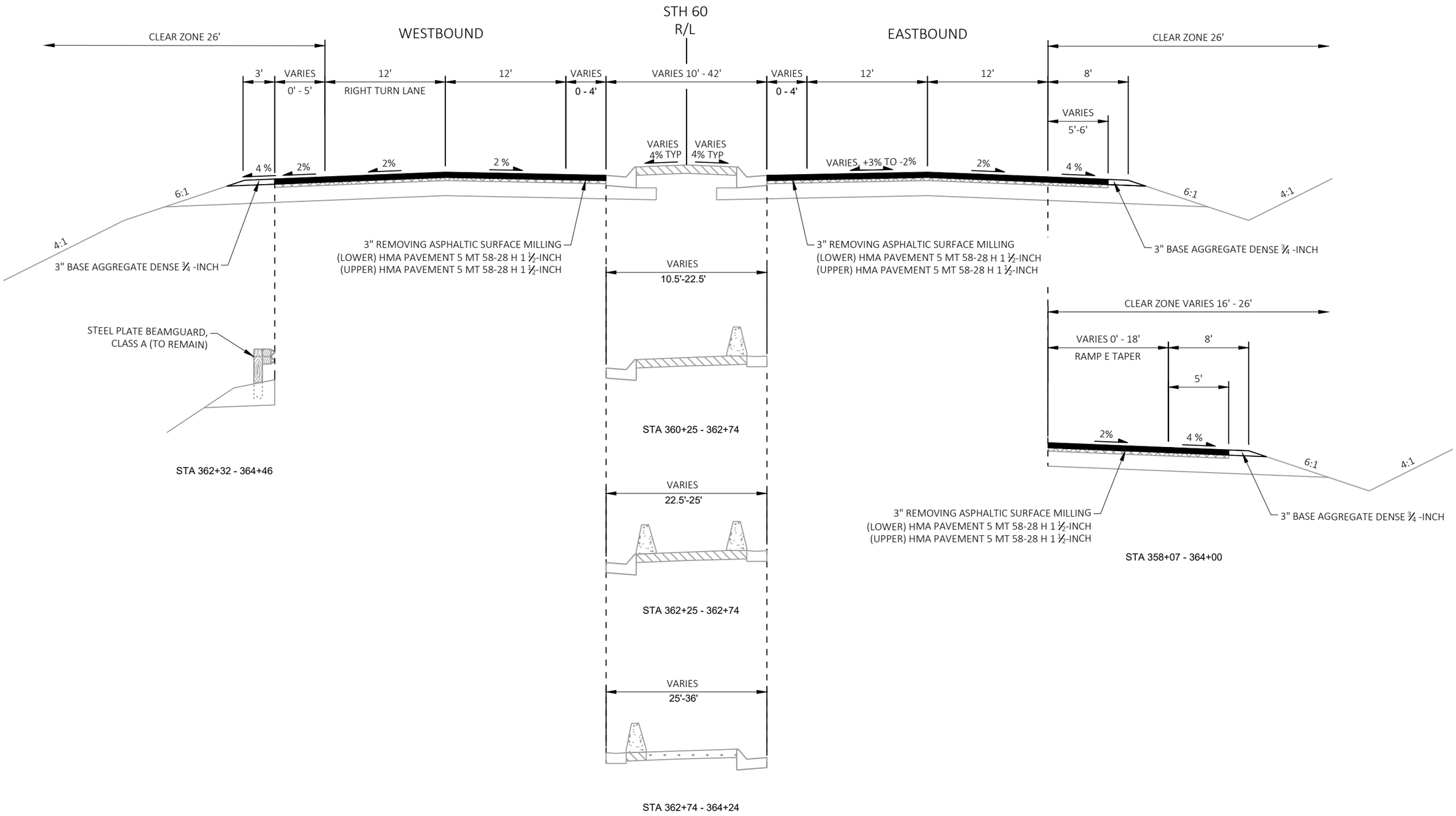
STH 60 - EAST OF BRIDGE *
STA 352+67 - 356+84 **

NOTES:

* CONCRETE PAVEMENT APPROACH SLAB FROM STA 352+22 TO 352+71 LT AND FROM STA 352+75 TO 353+17 RT (SEE PAVING GRADES FOR LAYOUT)

** DUE TO BRIDGE SKEW, TYPICAL SECTION STATION RANGES ARE GIVEN AT THE POINT WHERE THE STH 60 R/L INTERSECTS WITH BRIDGE. FOR MORE INFORMATION SEE PLAN DETAILS.

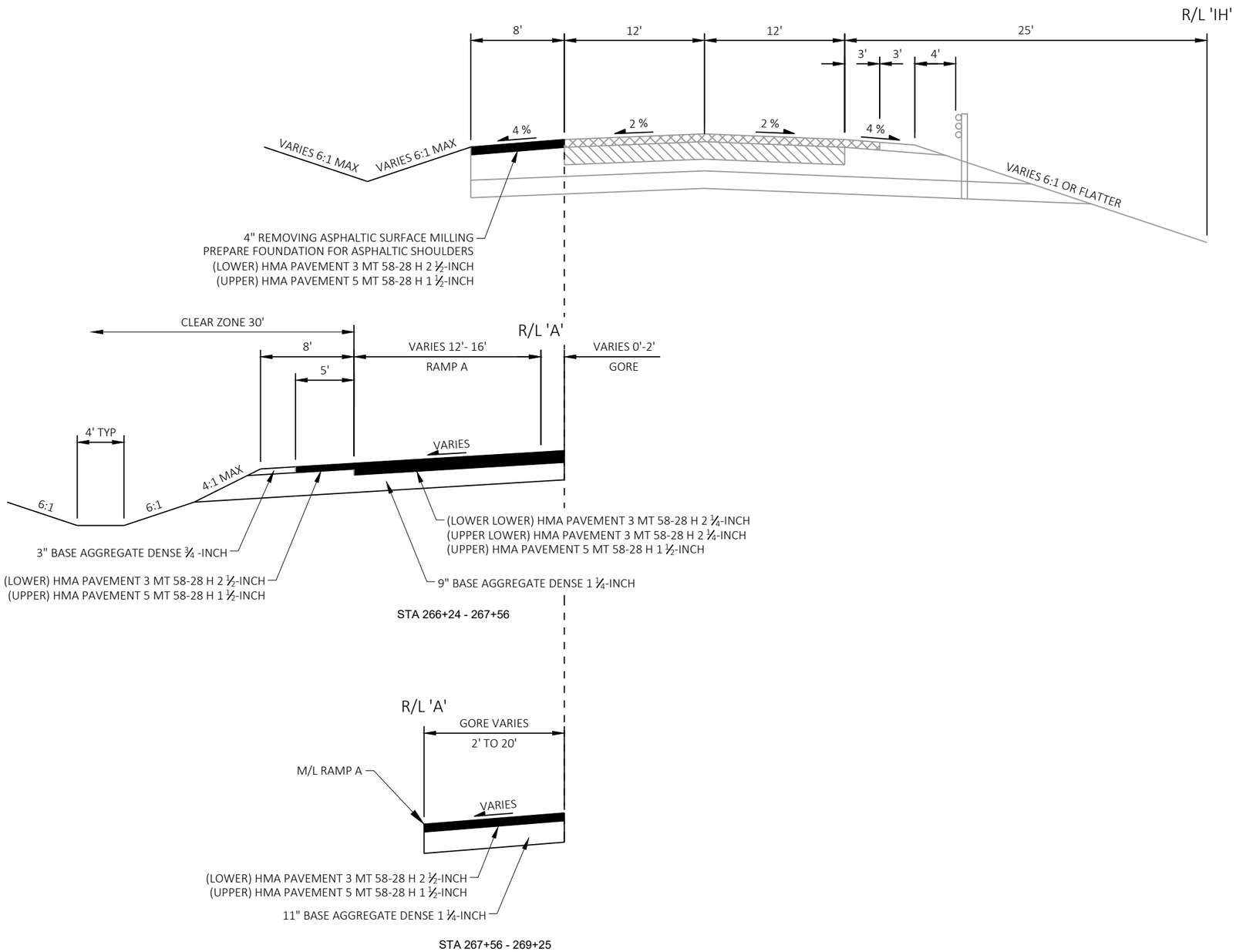
PROJECT NO: 2310-09-71	HWY: STH 60	COUNTY: WASHINGTON	TYPICAL SECTIONS	SHEET 9	E



FINISHED TYPICAL SECTION

STH 60 - EAST OF BRIDGE
STA 356+84 - 367+13

PROJECT NO: 2310-09-71	HWY: STH 60	COUNTY: WASHINGTON	TYPICAL SECTIONS	SHEET 10	E

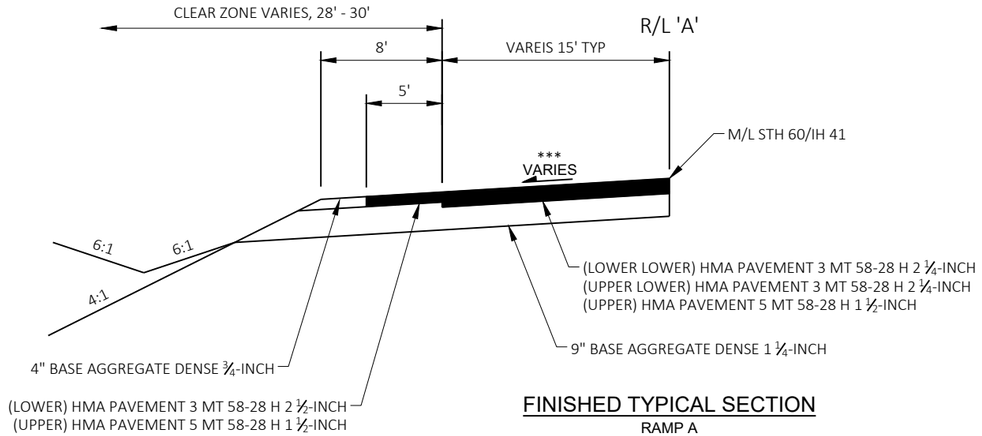


EXISTING HALF TYPICAL SECTION

IH41 SOUTHBOUND
RAMP A TAPER
STA 266+24 'IH' - 270+86 'IH'

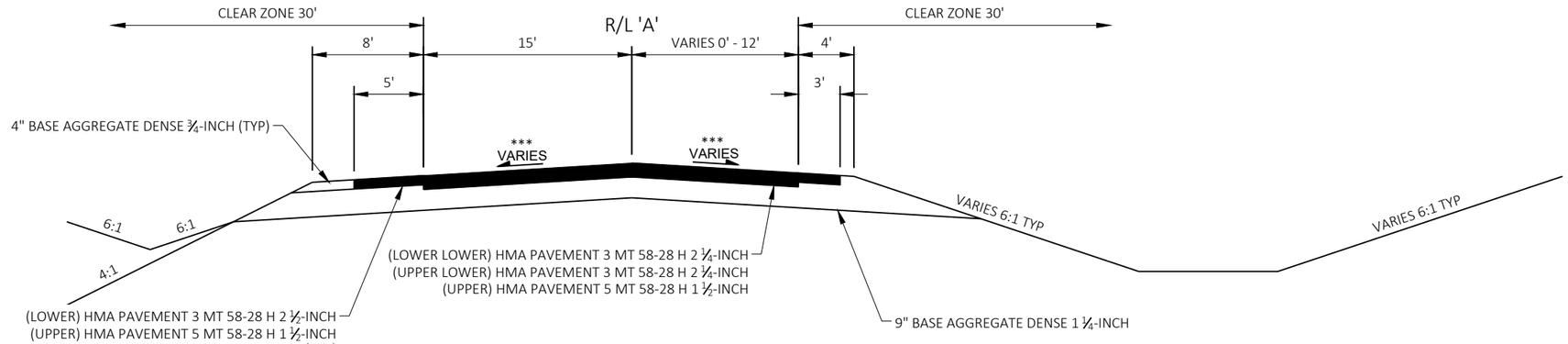
PROJECT NO: 2310-09-71	HWY: STH 60	COUNTY: WASHINGTON	TYPICAL SECTIONS	SHEET 11	E

2



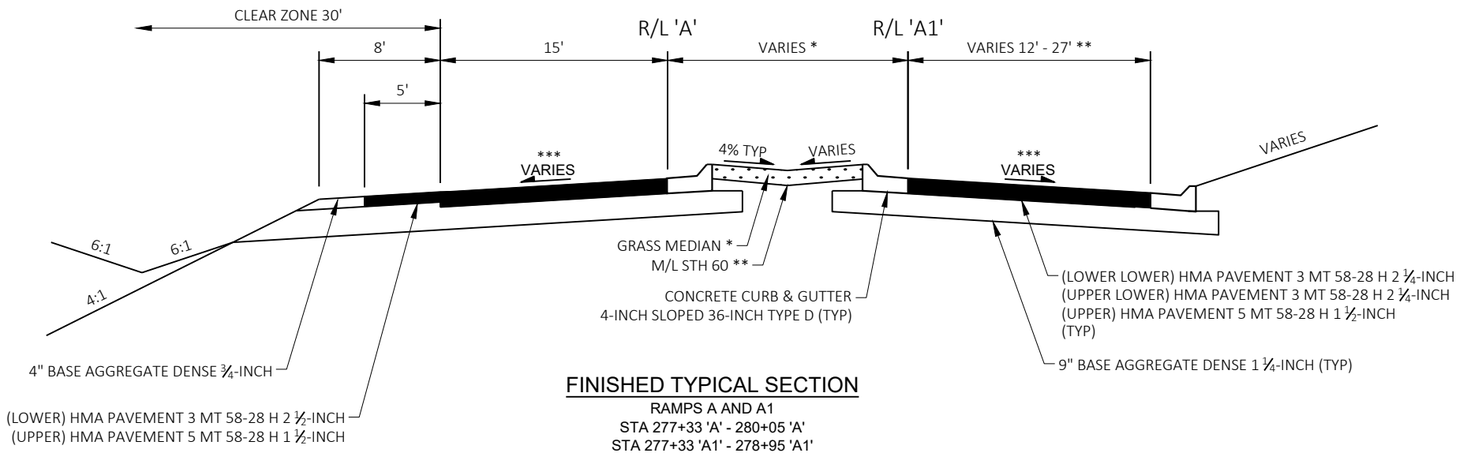
FINISHED TYPICAL SECTION

RAMP A
STA 267+56 'A' - 269+26 'A'
STA 280+05 'A' - 281+05 'A'



FINISHED TYPICAL SECTION

RAMP A
STA 269+26 'A' - 277+33 'A'



FINISHED TYPICAL SECTION

RAMPS A AND A1
STA 277+33 'A' - 280+05 'A'
STA 277+33 'A1' - 278+95 'A1'

NOTES:

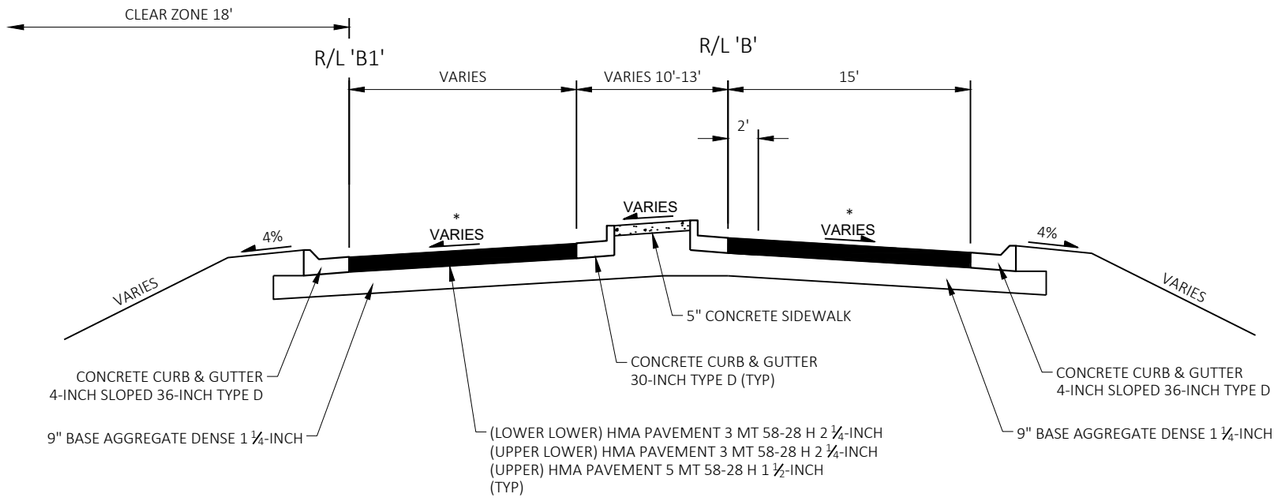
* 6" HMA PAVED GORE FROM STA 277+33 TO STA 278+10. WIDTH VARIES 0' TO 12'. SEE PLAN DETAILS FOR WIDTH OF GRASS MEDIAN.

** RAMP A1 ENDS STA 278+90 'A'. CENTER OF GRASS MEDIAN IS MATCHLINE TO STH 60 FROM STA 278+90'A' TO 280+05'A'

*** SEE ALIGNMENT PLAN FOR SUPERELEVATION TRANSITION TABLES

PROJECT NO: 2310-09-71	HWY: STH 60	COUNTY: WASHINGTON	TYPICAL SECTIONS	SHEET 12	E

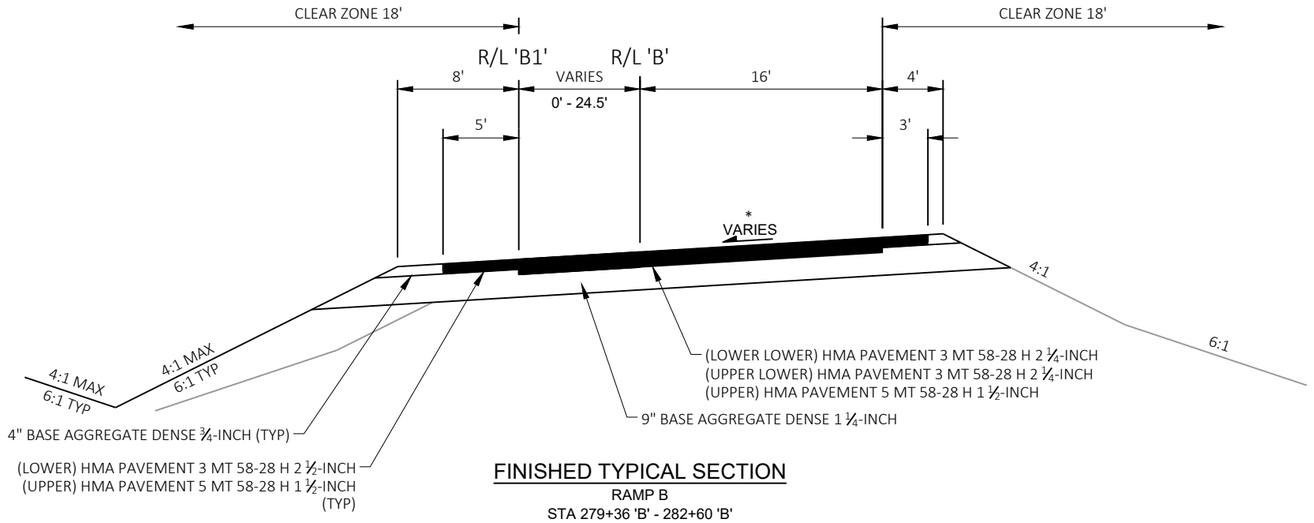
2



FINISHED TYPICAL SECTION

RAMP B

STA 278+74 'B' - 279+36 'B'



FINISHED TYPICAL SECTION

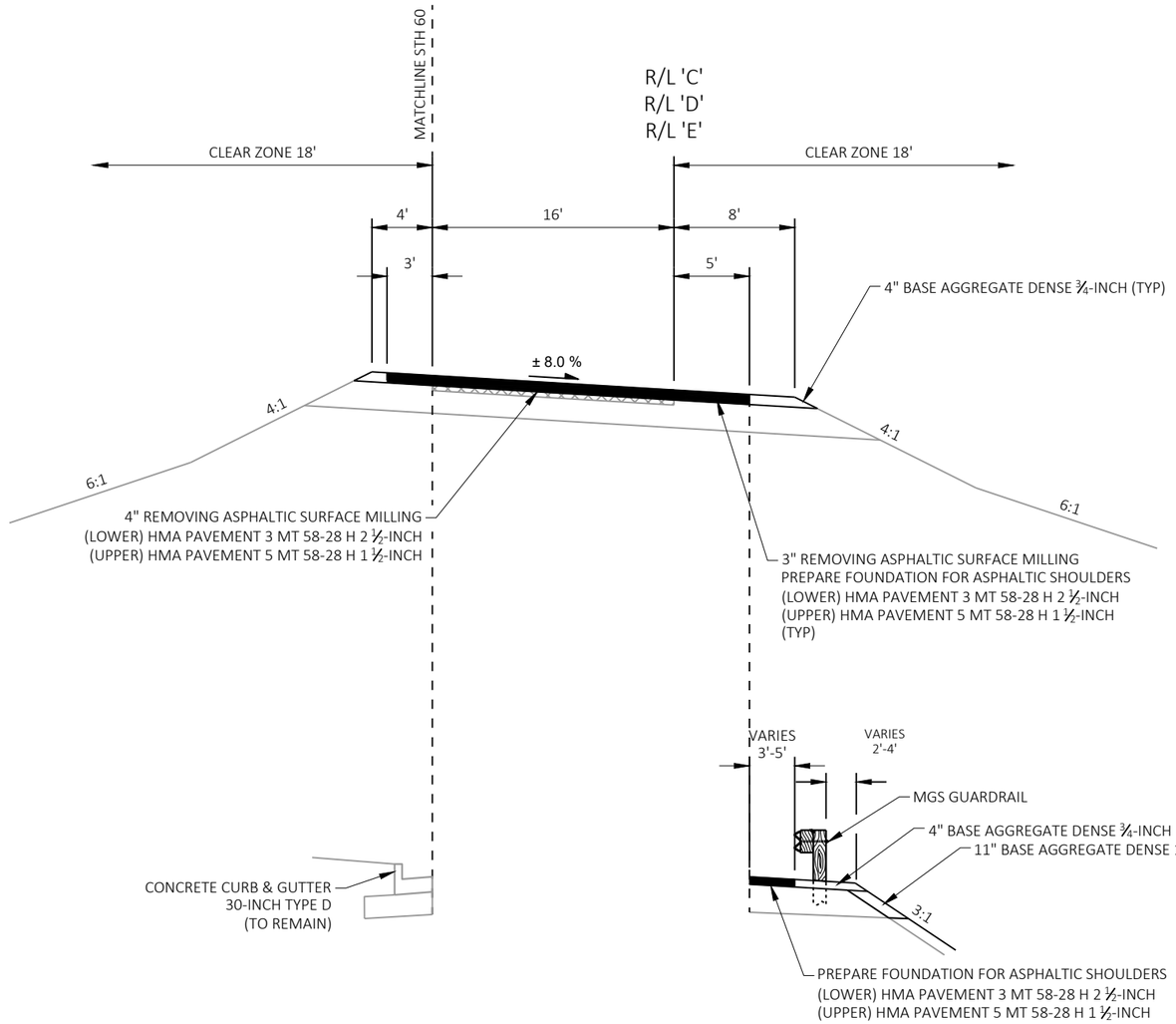
RAMP B

STA 279+36 'B' - 282+60 'B'

NOTES:

* SEE ALIGNMENT PLAN FOR SUPERELEVATION TRANSITION TABLES

2



CURB PARTIAL SECTION

STA 270+13 'C' - 279+58 'C'
STA 283+69 'D' - 292+83 'D'

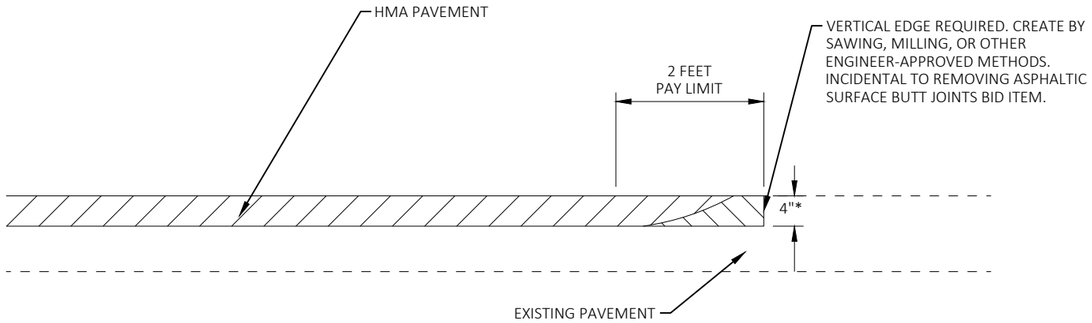
GUARDRAIL PARTIAL SECTION

STA 292+23 'D' - 293+26 'D'

FINISHED TYPICAL SECTION

RAMPS C, D, AND E
STA 270+13 'C' - 287+55 'C'
STA 277+40 'D' - 293+26 'D'
STA 267+61 'E' - 273+28 'E'

2

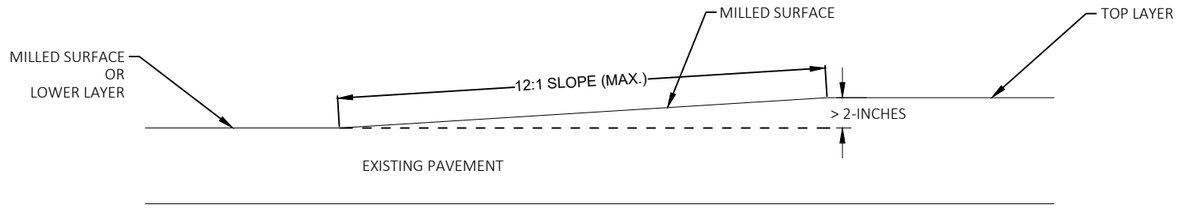


REMOVE MATERIAL UNDER ITEM 'REMOVING ASPHALTIC SURFACE BUTT JOINT'

REMOVING ASPHALTIC SURFACE MILLING

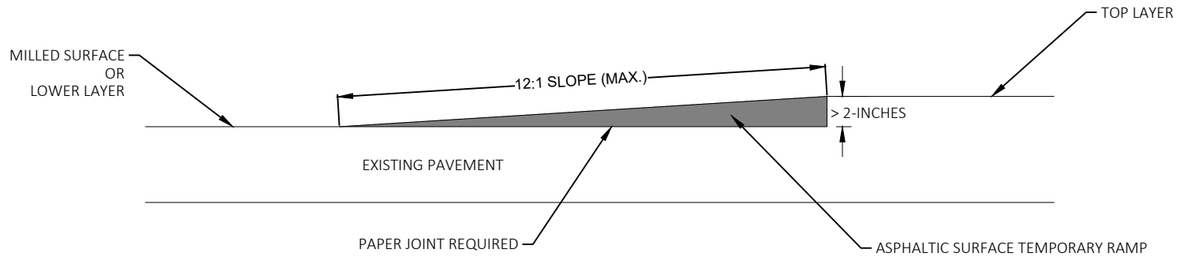
*3" FOR STA 360+25 TO STA 364+24

BUTT JOINT - NO CHANGE IN PROFILE



MILLED RAMP

NOTES:
- THESE CONSTRUCTION DETAILS AND THE SPECIAL PROVISIONS SUPPLEMENT THE REQUIREMENTS FOR PROVIDING DROP-OFF PROTECTION AS STATED IN STANDARD SPECIFICATION 104.6.1.2.3.
- MILLING RAMP PAID AS 'REMOVING ASPHALTIC SURFACE BUTT JOINTS' OR 'REMOVING PAVEMENT BUTT JOINTS'.
- PAVING OF ASPHALTIC SURFACE TEMPORARY RAMP PAID AS 'ASPHALTIC SURFACE TEMPORARY'
- REMOVAL OF RAMPS PAID AS 'REMOVING ASPHALTIC SURFACE BUTT JOINTS' OR 'REMOVING PAVEMENT BUTT JOINTS'.
- PROVIDE APPROPRIATE SIGNING BASED ON SDD 15D44 "TRAFFIC CONTROL, SIGNING ON ROADWAYS WITH MILLED SURFACES" PRIOR TO PLACING TRAFFIC ON MILLED SURFACE.



ASPHALTIC SURFACE TEMPORARY RAMP

LEGEND

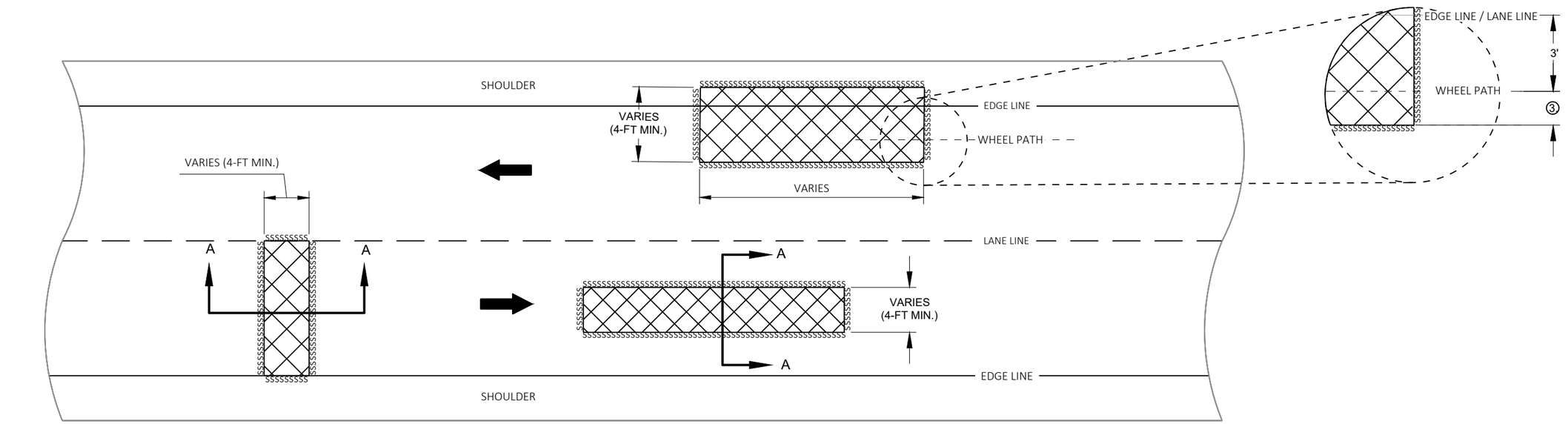
ASPHALTIC REPAIR

SSSSSS VERTICAL MILLED EDGE
SAW CUTTING AT THE CONTRACTORS DISCRETION

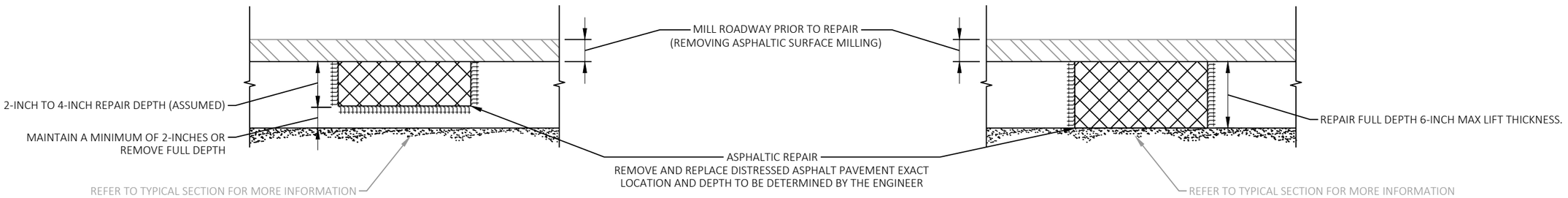
TTTTTT TACK COAT

GENERAL NOTES

1. EXACT LOCATION, DEPTH AND SIZE OF REPAIR TO BE DETERMINED BY THE ENGINEER IN THE FIELD.
2. MILL PAVEMENT PER PLAN PRIOR TO MAKING ASPHALTIC REPAIR.
3. LOCATE LONGITUDINAL REPAIR JOINTS OUTSIDE OF WHEEL PATH. 12-INCH MINIMUM (24-INCH RECOMMENDED) FROM THE CENTER OF THE WHEEL PATH.
4. ASPHALTIC REPAIR PAVING TO BE DONE ON THE SAME DAY AS REMOVAL.



PLAN VIEW



PARTIAL DEPTH

SECTION A-A

FULL DEPTH

ASPHALTIC REPAIR

SER (20180101)

REMOVING CURB AND GUTTER AND PAVEMENT TO THE LIMITS SHOWN, EXCAVATING, PREPARING THE FOUNDATION AND SHIMMING ARE INCIDENTAL TO THE ADJUSTING OR RECONSTRUCTING BID ITEMS.

THE DEPARTMENT WILL PAY SEPARATELY FOR SAWING ASPHALT, SAWING CONCRETE, CONCRETE CURB & GUTTER AND DRILLED TIE BARS.

MONOLITHIC SHIM CONCRETE, CONCRETE PLACEMENT AND FINISHING IS INCIDENTAL TO THE CONCRETE CURB & GUTTER BID ITEM.

PREVENT CONCRETE AND OTHER DEBRIS FROM FALLING INTO STRUCTURE.

REFER TO PLAN DETAILS AND MISCELLANEOUS QUANTITIES FOR ADDITIONAL INFORMATION.

S S S SAWING ASPHALT

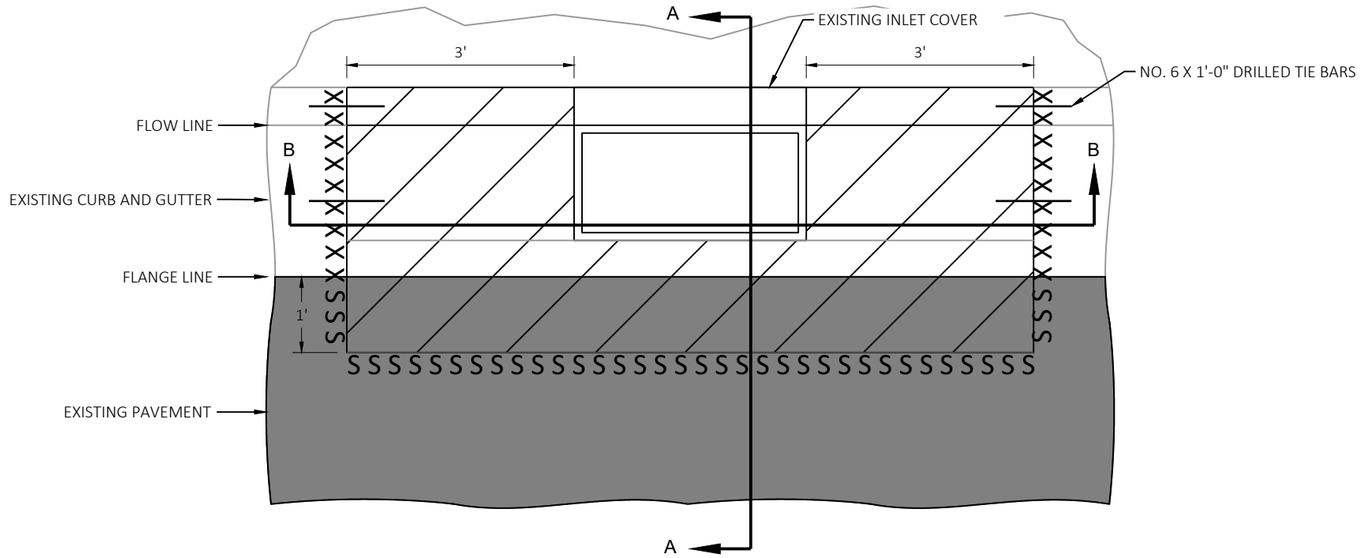
X X X SAWING CONCRETE

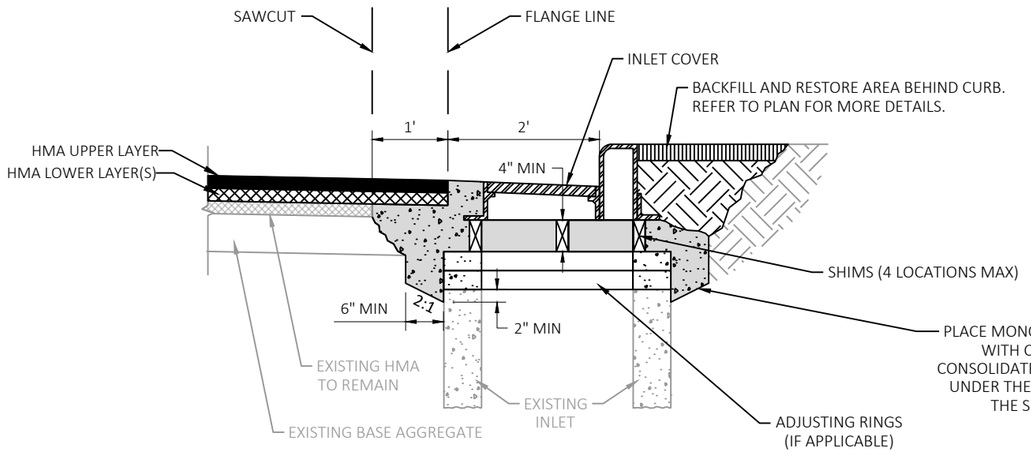


REMOVING CURB & GUTTER AND PAVEMENT

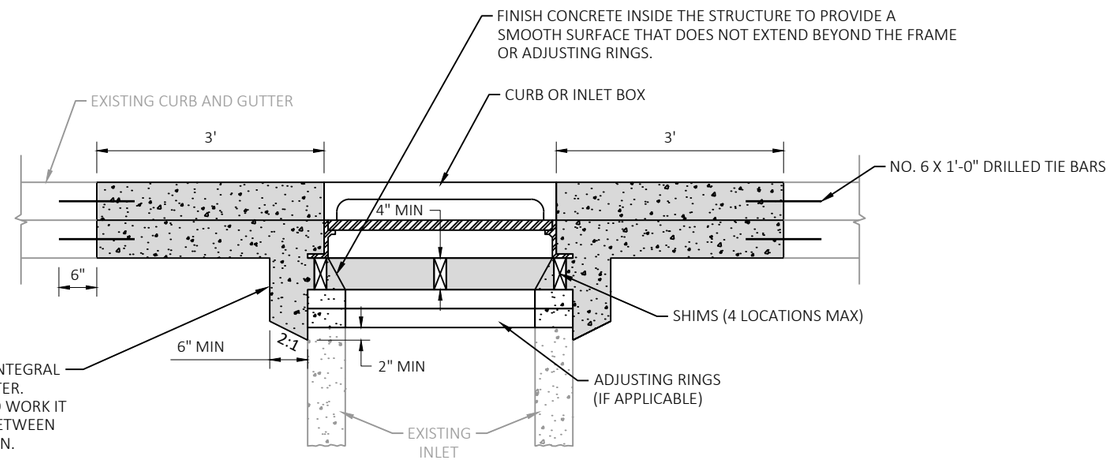


MONOLITHIC CONCRETE





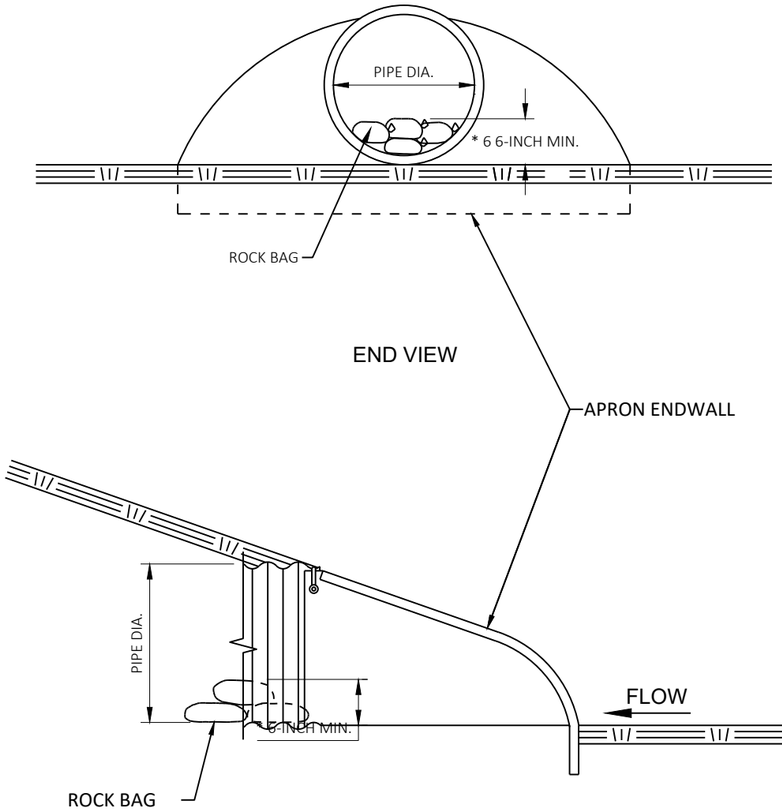
SECTION A-A



SECTION B-B

ADJUSTING / RECONSTRUCTING CATCH BASINS & INLETS - MONOLITHIC SHIM

SER (20221101)

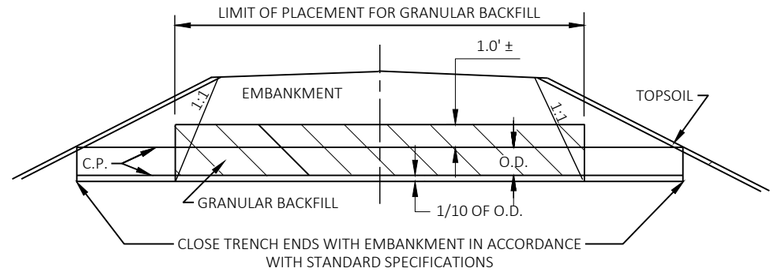


*OR AS DIRECTED BY THE ENGINEER

CULVERT PIPE CHECKS

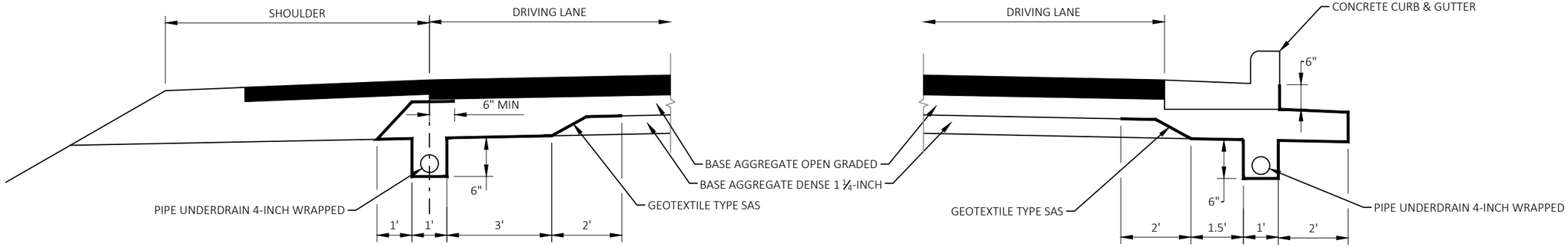
SER (20180101)

ESTIMATED BAG SIZE 18" X 12" X 6"	
PIPE SIZE	ESTIMATED NUMBER OF BAGS
12"	1
15"	2
18"	2
24"	3
30"	5
36"	7
42"	7
48"	10
54"	10
60"	13
66"	14
72"	16
17"X13"	2
30"X19"	5
38"X24"	7
45"X29"	10
53"X34"	10
60"X38"	13
76"X48"	18
27' WIDE BOX CULVERT	36

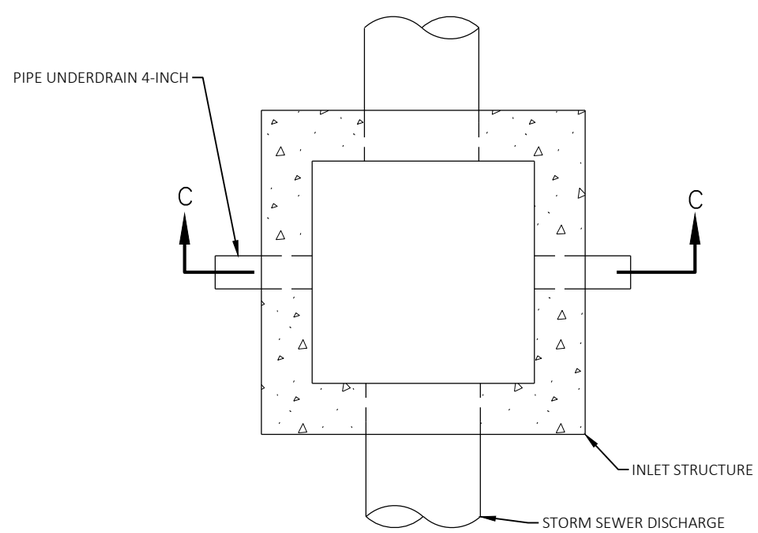


CULVERT BACKFILL DETAIL

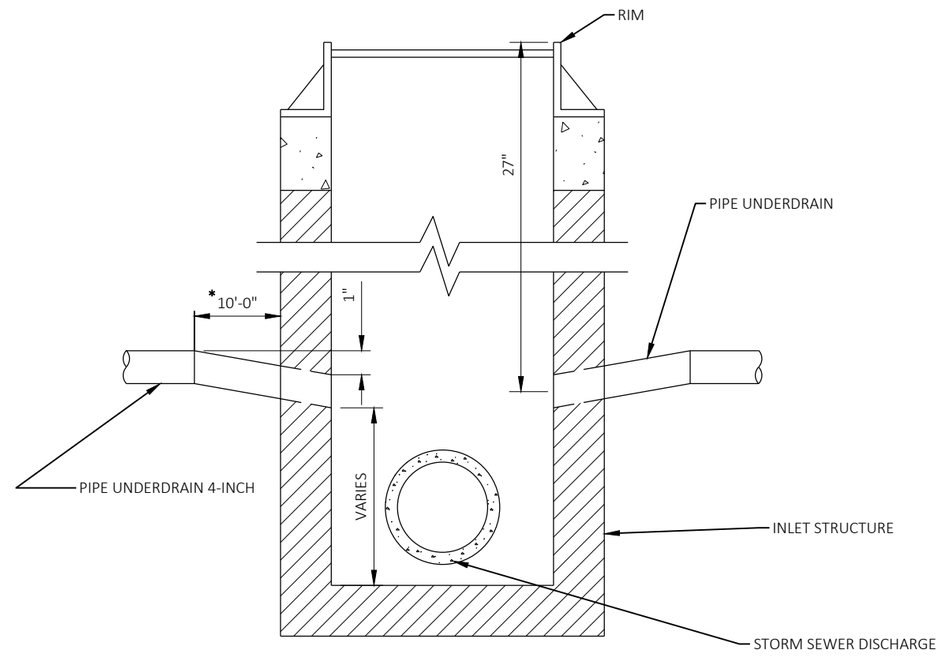
SER (20180101)



UNDERDRAIN TRENCH DETAIL



PLAN VIEW



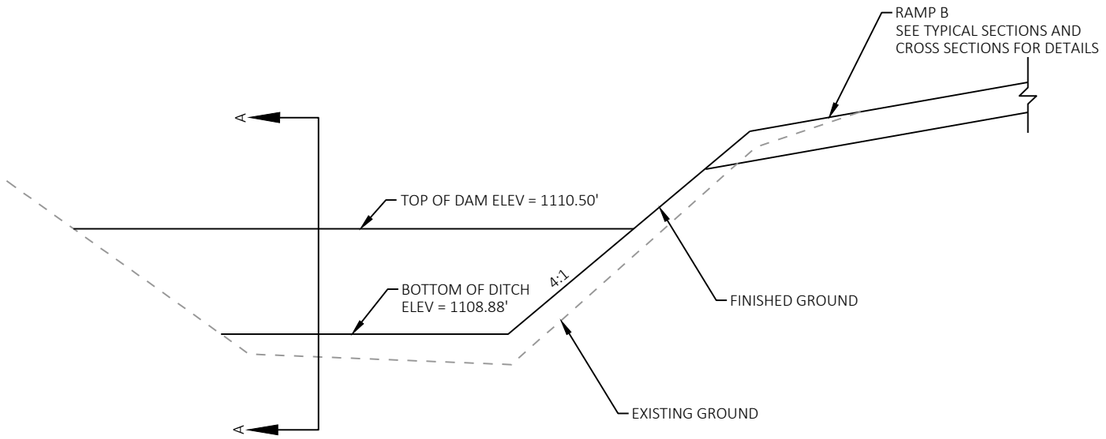
SECTION C-C

NOTES

1. SEE TYPICAL SECTIONS AND STORM SEWER PLANS FOR PIPE UNDERDRAIN LOCATIONS.

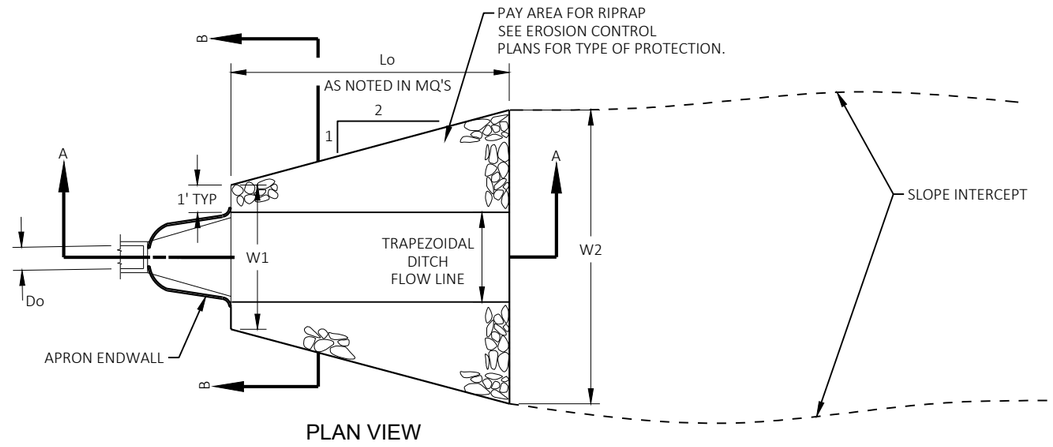
UNDERDRAIN OUTFALL AT DRAINAGE STRUCTURE

SER (20180101)

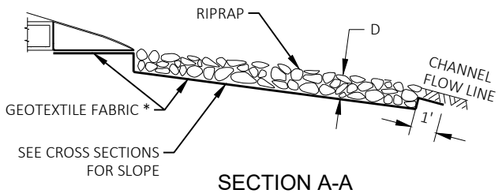


SECTION A-A

CHECK DAM BERM



PLAN VIEW

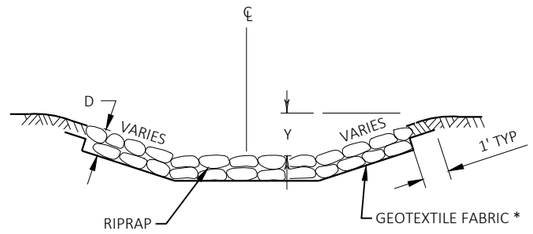


SECTION A-A

* TYPE R (FOR RIPRAP LIGHT ONLY)
TYPE HR (FOR RIPRAP HEAVY AND MEDIUM ONLY)

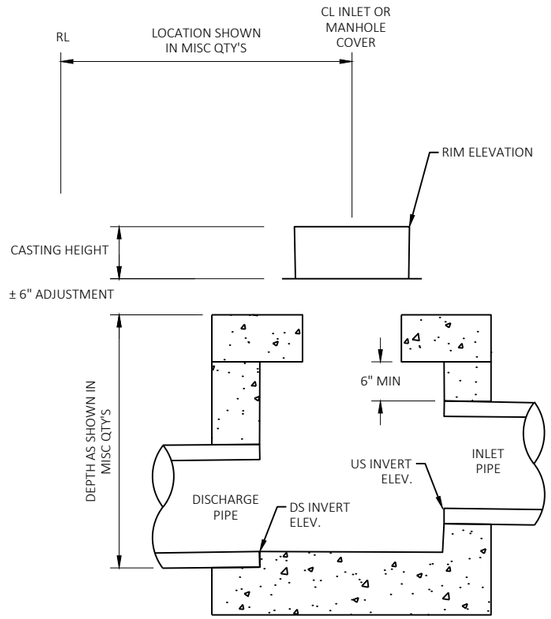
CONSTRUCTION NOTES:

1. GEOTEXTILE FABRIC SHALL EXTEND BENEATH THE ENTIRE LENGTH OF THE APRON ENDWALL SECTION. INSTALL ON PREPAVED FOUNDATION. GRADE PRIOR TO END WALL INSTALLATION.
2. COMPLETE GEOTEXTILE FABRIC AND RIPRAP SECTION INSTALLATION PRIOR TO STORM WATER FLOW.



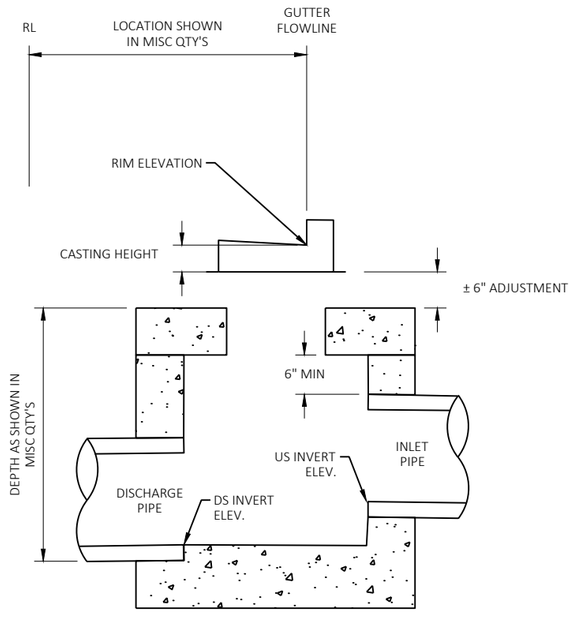
SECTION B-B

RIPRAP AND GEOTEXTILE FABRIC DETAIL AT APRON ENDWALLS



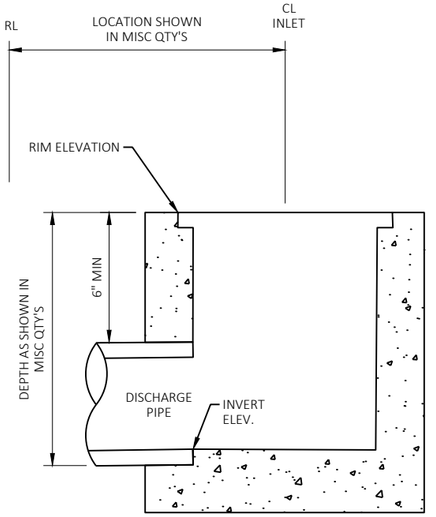
DETAIL FOR COMPUTING STRUCTURE ELEVATIONS

MANHOLE COVERS - TYPE J
INLET COVERS - TYPE C



DETAIL FOR COMPUTING STRUCTURE ELEVATIONS

INLET COVERS - TYPE V



DETAIL FOR COMPUTING INLET ELEVATIONS

INLETS MEDIAN 1 GRATE

NOTE:
- STA/OFF TO FACE OF RAIL

2

2

N

IH 41 SB

STRUCTURE B-66-103

(?)E

EL

STH 60 WB

R/L STH 60

00

348+00

349+00

350+00

STH 60 EB

MGS GUARDRAIL TERMINAL EAT

MGS GUARDRAIL 3

MGS THRIE BEAM TRANSITION

CONCRETE CURB & GUTTER 30-INCH TBT

CONCRETE CURB & GUTTER 30-INCH TBTT

SIGN

STA 348+05.52, 46.50' RT

STA 348+58.62, 44.50' RT

STA 349+33.62, 44.50' RT

STA 349+73.01, 44.50' RT

CONCRETE SURFACE DRAIN

STRUCTURE B-66-102

RAMP A (SB ON-RAMP)

278'A1'+00

278'

MP

PROJECT NO: 2310-09-71	HWY: STH 60	COUNTY: WASHINGTON	CONSTRUCTION DETAILS - GUARDRAIL	SHEET 23	E

FILE NAME : K:\195704_STH 60 AND IH 41 INTERSECTION\3.0 DELIVERABLES\3.02 ROADWAY\AUTOCAD\SHEETS\021051-CD-GUARDRAIL.DWG
LAYOUT NAME - 01
PLOT DATE : 10/18/2025 5:36 PM
PLOT BY : OLSEN, CASSIE
PLOT NAME :
PLOT SCALE : 1 IN:20 FT
WISDOT/CADDS SHEET 42

NOTE:
- STA/OFF TO FACE OF RAIL

STRUCTURE B-66-103

STA 293+41.86, 8.61' RT

STA 293+82.43, 10.00' RT

MGS THRIE BEAM TRANSITION

R254.13'

STA 292+22.98, 10.00' RT

MGS GUARDRAIL TERMINAL EAT

STA 292+77.68, 8.00' RT

MGS GUARDRAIL 3

293'D'+00

292'D'+00

RAMP D (NB OFF-RAMP)

POST

POST

POST

EL

(?)E

STH 60 WB

R/L STH 60

352+00

353+00

354+00

275'D'+00

STH 60 EB

IH 41 NB

STRUCTURE B-66-102

EL

E

N

PROJECT NO: 2310-09-71	HWY: STH 60	COUNTY: WASHINGTON	CONSTRUCTION DETAILS - GUARDRAIL	SHEET 24	E

FILE NAME : K:\195704_STH 60 AND IH 41 INTERSECTION\3.0 DELIVERABLES\3.02 ROADWAY\AUTOCAD\SHEETS\021051-CD-GUARDRAIL.DWG
LAYOUT NAME - 02

PLOT DATE : 10/18/2025 5:37 PM PLOT BY : OLSEN, CASSIE PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 42

NOTE:
- STA/OFF TO FACE OF RAIL

IH 41 SB

STA 274+34.97, -8.52' LT

273'IH'+00 274'IH'+00 275'IH'+00 276'IH'+00

CONNECT TO EXISTING STEEL THRIE BEAM
CONFIRM LOCATION WITH ENGINEER IN THE FIELD

STA 274+34.88, 6.23' RT

00+75.E

IH 41 NB

STH 60 EB

STH 60 WB

℄E

SEC S 16-10-19
WISDOT PID 1019084

STEEL THRIE BEAM

STEEL THRIE BEAM BULLNOSE TERMINAL

STA 276+97.67, -7.38' LT

STA 277+51, 0.00'

275'IH'+00 276'IH'+00 277'IH'+00 278'IH'+00

00+51.E

STA 276+97.67, 7.38' RT

STEEL THRIE BEAM

STEEL THRIE BEAM BULLNOSE TERMINAL

IH 41 SB

IH 41 NB

PROJECT NO: 2310-09-71	HWY: STH 60	COUNTY: WASHINGTON	CONSTRUCTION DETAILS - GUARDRAIL	SHEET 25	E

FILE NAME : K:\195704_STH 60 AND IH 41 INTERSECTION\3.0 DELIVERABLES\3.02 ROADWAY\AUTOCAD\SHEETS\021051-CD-GUARDRAIL.DWG
LAYOUT NAME - 03
PLOT DATE : 10/15/2025 2:53 PM PLOT BY : OLSEN, CASSIE PLOT NAME : PLOT SCALE : 1 IN:20 FT
WISDOT/CADDS SHEET 42

2

STA 346+98.75, -47.00' LT

STA 346+88.75, -44.59' LT

ASPHALTIC SURFACE TEMPORARY 4-INCH

4.5" TYP

(?)E

EL

STRUCTURE B-66-103

STA 348+74.21, -47.00' LT

STA 348+74.21, -45.91' LT

N

IH 41 SB

2

R/L STH 60

STH 60 WB

347+00

348+00

349+00

STH 60 EB

279'A1'+00

278'A1'+00

RAMP A (SB ON-RAMP)

SIGN

STRUCTURE B-66-102

PROJECT NO: 2310-09-71	HWY: STH 60	COUNTY: WASHINGTON	CONSTRUCTION DETAILS - TEMPORARY PAVEMENT	SHEET 26	E

FILE NAME : K:\195704_STH 60 AND IH 41 INTERSECTION\3.0 DELIVERABLES\3.02 ROADWAY\AUTOCAD\SHEETS\021071-CD-TEMP.DWG
LAYOUT NAME - 01

PLOT DATE : 10/18/2025 6:03 PM PLOT BY : OLSEN, CASSIE PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 42

2

RAMP A (SB ON-RAMP)

267'A'+00
268'A'+00
269'A'+00
270'A'+00

IH 41 SB

PREPARE FOUNDATION FOR ASPHALTIC SHOULDERS
4 LT 58-28 S (2.5" UPPER LAYER)
3 LT 58-28 S (2.5" LOWER LAYER)

STA 270+52.50, -25.14' LT
STA 270+52.50, -22.08' LT
STA 272+02.50, -19.00' LT

6' TYP

267'IH'+00
268'IH'+00
269'IH'+00
270'IH'+00
271'IH'+00
272'IH'+00
273'I

STA 267+45.92, 21.66' RT
STA 267+45.91, 24.69' RT
STA 270+45.92, 16.00' RT
STA 271+95.92, 19.00' RT

IH 41 NB

6' TYP

271'D'+00
272'D'+00

SIGN

MATCH LINE 273+00

IH 41 SB

PREPARE FOUNDATION FOR ASPHALTIC SHOULDERS
4 LT 58-28 S (2.5" UPPER LAYER)
3 LT 58-28 S (2.5" LOWER LAYER)

SEC S 16-10-19
WISDOT PID 1019084

STH 60 EB
STH 60 WB

350+00

(7)E

6' TYP

MATCH LINE 273+00

274'IH'+00
275'IH'+00
276'IH'+00
277'IH'+00
278'IH'+00
279'I

351+00

IH 41 NB

6' TYP

273'D'+00
274'D'+00
275'D'+00
352+00
276'D'+00
277'D'+00

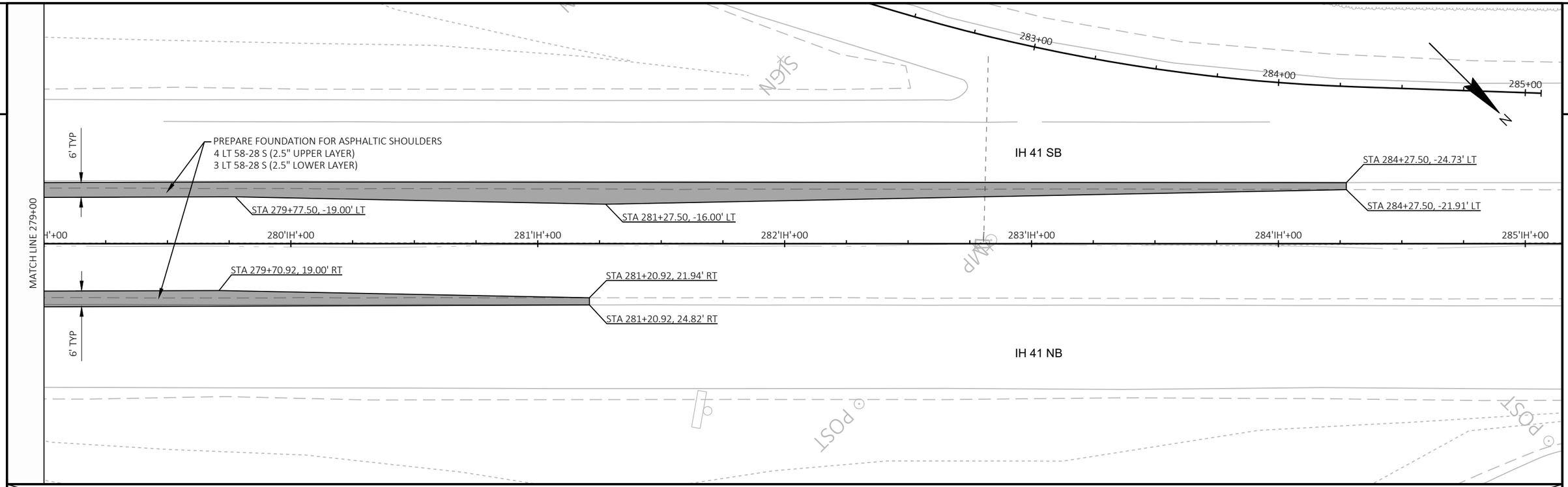
SIGN POST

MATCH LINE 279+00

PROJECT NO: 2310-09-71	HWY: STH 60	COUNTY: WASHINGTON	CONSTRUCTION DETAILS - TEMPORARY PAVEMENT	SHEET 27	E

FILE NAME : K:\195704_STH 60 AND IH 41 INTERSECTION\3.0 DELIVERABLES\3.02 ROADWAY\AUTOCAD\SHEETS\021071-CD-TEMP.DWG
LAYOUT NAME - 02

PLOT DATE : 10/22/2025 4:06 PM PLOT BY : OLSEN, CASSIE PLOT NAME : PLOT SCALE : 1 IN:40 FT



PROJECT NO: 2310-09-71	HWY: STH 60	COUNTY: WASHINGTON	CONSTRUCTION DETAILS - TEMPORARY PAVEMENT	SHEET 28	E

2

N

STA 291+00, 5.85' RT

291'D'+00

STA 291'D'+00
-16.00' LT

292'D'+00

RAMP D (NB OFF-RAMP)

RESIN BINDER HIGH FRICTION SURFACE TREATMENT

STRUCTURE B-66-103
HIGH FRICTION SURFACE TREATMENT
POLYMER OVERLAY
SEE STRUCTURE PLANS

293'D'+00

(?)E

STA 354+00, -22.50' LT

STA 354+00, -10.76' LT

STH 60 WB

R/L STH 60

52+00

353+00

354+00

355+00

STH 60 EB

275'D'+00

POST

EL

2

PROJECT NO: 2310-09-71	HWY: STH 60	COUNTY: WASHINGTON	CONSTRUCTION DETAILS - HFST	SHEET 29	E

FILE NAME : K:\195704_STH 60 AND IH 41 INTERSECTION\3.0 DELIVERABLES\3.02 ROADWAY\AUTOCAD\SHEETS\021071-CD-TEMP.DWG
LAYOUT NAME - 05

PLOT DATE : 10/18/2025 5:47 PM PLOT BY : OLSEN, CASSIE PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 42

2

2

N

EXISTING R/W

WE ENERGIES ELECTRIC

WE ENERGIES ELECTRIC

TEL

(?)T

(?)E

+00, -40.00' LT

STH 60

340+00

341+00

342+00

343+00

344+00

345+00

+54.53, -10.50' LT

+54.53, 10.50' RT

BEGIN PROJECT
STA 341+00.00
Y=148,201.694
X=343,257.556

+00, 32.00' RT

+39.75, 32.00' RT

+54.89, 34.50' RT

+18.14, 34.44' RT

+18.25, 37.02' RT

+00, 45.47' RT

0 'AX'

551+00 'AX'

552+00 'AX'

553+00 'AX'

554+00 'AX'

555+00 'AX'

MATCH LINE 345+50

REMOVING INLET

REMOVE, SALVAGE, AND
RELOCATE BARRICADE RACK

REMOVING STORM
SEWER 12-INCH

WE ENERGIES ELECTRIC

FRONTIER COMMUNICATIONS

EXISTING R/W

6219
NGS

LEGEND

- GRUBBING
- REMOVING CONCRETE SIDEWALK
- REMOVING CONCRETE PAVEMENT
- REMOVING ASPHALTIC SURFACE MILLING
- REMOVING ASPHALT (PAID AS COMMON EXCAVATION)
- REMOVING ASPHALTIC SURFACE BUTT JOINT
- REMOVING CURB & GUTTER
- RMC — REMOVING CURB & GUTTER
- REMOVING GUARDRAIL
- RMG — REMOVING GUARDRAIL
- XXXX — SAWING ASPHALT
- YYYY — SAWING CONCRETE
- REMOVING STORM SEWER/CULVERT

*SEE PLAN SHEETS FOR ASPHALT REMOVAL LIMITS ON RAMPS C, D, AND E.

**BUTT JOINTS REQUIRED AT THE MATCHING POINTS.

LEGEND

- (?)SAN — EXISTING UTILITIES SHOWN IN MAGENTA ARE APPROXIMATE LOCATIONS BASED ON SYSTEM MAPS
- SAN — EXISTING UTILITIES SHOWN IN DARK GRAY WERE SURVEYED BASED ON FIELD MARKINGS

PROJECT NO: 2310-09-71	HWY: STH 60	COUNTY: WASHINGTON	REMOVAL PLAN	SHEET 30	E

FILE NAME : K:\195704_STH 60 AND IH 41 INTERSECTION\3.0 DELIVERABLES\3.02 ROADWAY\AUTOCAD\SHEETS\021101-RM.DWG
LAYOUT NAME - 01

PLOT DATE : 12/15/2025 10:50 AM PLOT BY : OLSEN, CASSIE PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

LEGEND

(?)SAN — EXISTING UTILITIES SHOWN IN MAGENTA ARE APPROXIMATE LOCATIONS BASED ON SYSTEM MAPS

SAN — EXISTING UTILITIES SHOWN IN DARK GRAY WERE SURVEYED BASED ON FIELD MARKINGS

REMOVING SMALL PIPE CULVERTS

REMOVING APRON ENDWALL

REMOVING STORM SEWER 12-INCH

REMOVING INLET

RAMP B (SB OFF-RAMP)

RAMP A (SB ON-RAMP)

STH 60

IH 41 SB

IH 41 NB

STRUCTURE B-66-103

STRUCTURE B-66-102

SEC S 16-10-19
WISDOT PID 1019084

REMOVING STORM SEWER 12-INCH

REMOVING INLET

REMOVING STORM SEWER 18-INCH

GRUBBING
STA 557'AX'+00 TO 566'AX'+00

60723101

96234

95981

60823101

60723100

+62.73, -42.50' LT
+88.52, -42.26' LT
+65.05, -43.62' LT
+94.74, -44.60' LT
+65.05, -26.50' LT
+13.21, -26.50' LT
+65, -10.50' LT
+65.05, -10.50' LT
+29.54, -10.50' LT
+50.97, 10.50' RT
+65, 12.50' RT
+10.86, 12.50' RT
+67.32, 26.50' RT
+91.34, 34.63' RT
+17.07, 50.69' RT
+90.94, 42.43' RT
+10.86, 26.50' RT
+10.86, 42.50' RT
+59.90, 41.96' RT
+14, 42.50' RT
+87.82, 45.82' RT
+73.01, 44.65' RT
+85.76, 44.58' RT

346+00 347+00 348+00 349+00 350+00 351+00

276+00 'LT' 278+00 'LT' 277'D'+00 277+00 'LT'

556+00 'AX' 557+00 'AX' 558+00 'AX' 559+00 'AX' 560+00 'AX' 561+00 'AX'

MATCH LINE 345+50

MATCH LINE 351+25

LEGEND

- GRUBBING
- REMOVING CONCRETE SIDEWALK
- REMOVING CONCRETE PAVEMENT
- REMOVING ASPHALTIC SURFACE MILLING
- REMOVING ASPHALT (PAID AS COMMON EXCAVATION)
- REMOVING ASPHALTIC SURFACE BUTT JOINT
- REMOVING CURB & GUTTER
- RMC — REMOVING CURB & GUTTER
- REMOVING GUARDRAIL
- RMG — REMOVING GUARDRAIL
- XXXX — SAWING ASPHALT
- YYYY — SAWING CONCRETE
- REMOVING STORM SEWER/CULVERT

PROJECT NO: 2310-09-71	HWY: STH 60	COUNTY: WASHINGTON	REMOVAL PLAN	SHEET 31	E

FILE NAME : K:\195704_STH 60 AND IH 41 INTERSECTION\3.0 DELIVERABLES\3.02 ROADWAY\AUTOCAD\SHEETS\021101-RM.DWG
LAYOUT NAME - 02

PLOT DATE : 12/15/2025 10:52 AM PLOT BY : OLSEN, CASSIE PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

N

200

RAMP C (NB ON-RAMP)

RAMP D (NB OFF-RAMP)

STRUCTURE B-66-103

STRUCTURE B-66-102

STH 60

IH 41 SB

IH 41 NB

MATCH LINE 351+25

MATCH LINE 356+75

276'D'+00

275'D'+00

275+00 'IH'

274+00 'IH'

274'D'+00

273'D'+00

291'D'+00

292'D'+00

293'D'+00

272'C'+00

270'C'+00

271'E'+00

352+00

353+00

354+00

355+00

356+00

+27.45'D', 6.46' RT

+49.75'D', 9.88' RT

+82.57'D', 10.57' RT

+21.63, -44.39' LT

+94.54, -26.50' LT

+39.89, -26.50' LT

+94.54, -12.50' LT

+54.18, -12.50' LT

+56.16, -10.46' LT

+01.32, -25.07' LT

+01.32, -22.50' LT

+87.73'D', -16.54' LT

+54.37, -22.32' LT

+17.06, -12.50' LT

+17.06, 6.78' RT

+77.66, 10.50' RT

+93.99, 26.50' RT

+12.27, 44.40' RT

+42.15, 4.52' RT

+42.15, 26.50' RT

+42.15, 44.72' RT

RMG

RMC

WE ENERGIES ELECTRIC

UNKNOWN ELECTRIC LINE

SIGN

95490

POST

EL

E

(?)E

LEGEND

- GRUBBING
- REMOVING CONCRETE SIDEWALK
- REMOVING CONCRETE PAVEMENT
- REMOVING ASPHALTIC SURFACE MILLING
- REMOVING ASPHALT (PAID AS COMMON EXCAVATION)
- REMOVING ASPHALTIC SURFACE BUTT JOINT
- REMOVING CURB & GUTTER
- RMC — REMOVING CURB & GUTTER
- REMOVING GUARDRAIL
- RMG — REMOVING GUARDRAIL
- XXXX — SAWING ASPHALT
- YYYY — SAWING CONCRETE
- REMOVING STORM SEWER/CULVERT

LEGEND

- (?)SAN — EXISTING UTILITIES SHOWN IN MAGENTA ARE APPROXIMATE LOCATIONS BASED ON SYSTEM MAPS
- SAN — EXISTING UTILITIES SHOWN IN DARK GRAY WERE SURVEYED BASED ON FIELD MARKINGS

PROJECT NO: 2310-09-71	HWY: STH 60	COUNTY: WASHINGTON	REMOVAL PLAN	SHEET 32	E

FILE NAME : K:\195704_STH 60 AND IH 41 INTERSECTION\3.0 DELIVERABLES\3.02 ROADWAY\AUTOCAD\SHEETS\021101-RM.DWG
LAYOUT NAME - 03

PLOT DATE : 12/15/2025 10:53 AM PLOT BY : OLSEN, CASSIE PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

2

N

EXISTING R/W

POST

MP

MP

MP

MP

POST

(?)G

G

FLINT HILLS RESOURCES

(?)FO

WIN TECHNOLOGY

WE ENERGIES ELECTRIC

(?)E

EL

357+00

358+00

359+00

360+00

361+00

362

MATCH LINE 362+00

MATCH LINE 356+75

STH 60

274'E'+00

273'E'+00

RAMP E (NB OFF-RAMP)

272'E'+00

EL

UNKNOWN ELECTRIC LINE

WE ENERGIES ELECTRIC

MP

EXISTING R/W

LEGEND

(?)SAN — EXISTING UTILITIES SHOWN IN MAGENTA ARE APPROXIMATE LOCATIONS BASED ON SYSTEM MAPS

SAN — EXISTING UTILITIES SHOWN IN DARK GRAY WERE SURVEYED BASED ON FIELD MARKINGS

LEGEND

- GRUBBING
- REMOVING CONCRETE SIDEWALK
- REMOVING CONCRETE PAVEMENT
- REMOVING ASPHALTIC SURFACE MILLING
- REMOVING ASPHALT (PAID AS COMMON EXCAVATION)
- REMOVING ASPHALTIC SURFACE BUTT JOINT
- REMOVING CURB & GUTTER
- RMC — REMOVING CURB & GUTTER
- REMOVING GUARDRAIL
- RMG — REMOVING GUARDRAIL
- XXXX — SAWING ASPHALT
- YYYY — SAWING CONCRETE
- REMOVING STORM SEWER/CULVERT

PROJECT NO: 2310-09-71	HWY: STH 60	COUNTY: WASHINGTON	REMOVAL PLAN	SHEET 33	E

FILE NAME : K:\195704_STH 60 AND IH 41 INTERSECTION\3.0 DELIVERABLES\3.02 ROADWAY\AUTOCAD\SHEETS\021101-RM.DWG
LAYOUT NAME - 04

PLOT DATE : 12/15/2025 10:55 AM PLOT BY : OLSEN, CASSIE PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

LEGEND

(?)SAN — EXISTING UTILITIES SHOWN IN MAGENTA ARE APPROXIMATE LOCATIONS BASED ON SYSTEM MAPS

SAN — EXISTING UTILITIES SHOWN IN DARK GRAY WERE SURVEYED BASED ON FIELD MARKINGS

N

EXISTING R/W

UNKNOWN SEWER LINE

IP

GUY

POST

MP

EL

WE ENERGIES ELECTRIC

FLINT HILLS RESOURCES

+13, -57.15' LT

+13, -13.50' LT

END PROJECT
STA 367+13.00
Y=148,171.586
X=345,870.218

+10.16, 27.76' RT

+08.85, 58.65' RT

MATCH LINE 362+00

362+00

363+00

364+00

365+00

366+00

367+00

STH 60

LEGEND

- GRUBBING
- REMOVING CONCRETE SIDEWALK
- REMOVING CONCRETE PAVEMENT
- REMOVING ASPHALTIC SURFACE MILLING
- REMOVING ASPHALT (PAID AS COMMON EXCAVATION)
- REMOVING ASPHALTIC SURFACE BUTT JOINT
- REMOVING CURB & GUTTER
- RMC — REMOVING CURB & GUTTER
- REMOVING GUARDRAIL
- RMG — REMOVING GUARDRAIL
- XXXX — SAWING ASPHALT
- YYYY — SAWING CONCRETE
- REMOVING STORM SEWER/CULVERT

PROJECT NO: 2310-09-71	HWY: STH 60	COUNTY: WASHINGTON	REMOVAL PLAN	SHEET 34	E

2

60723101

559+00 'AX'

560+00 'AX'

561+00 'AX'

RAMP A (SB ON-RAMP)

562+00 'AX'

563+00 'AX'

564+00 'AX'

565+00 'AX'

REMOVING SMALL PIPE CULVERTS

GRUBBING
STA 557'AX'+00 TO 566'AX'+00

REMOVING FENCE
BY OTHERS

EXISTING R/W

IH 41 SB

IH 41 NB

274'D'+00

274+00 'IH'

273'D'+00

273+00 'IH'

272'D'+00

272+00 'IH'

AMP

POST

IP

N

2

LEGEND

- GRUBBING
- REMOVING CONCRETE SIDEWALK
- REMOVING CONCRETE PAVEMENT
- REMOVING ASPHALTIC SURFACE MILLING
- REMOVING ASPHALT (PAID AS COMMON EXCAVATION)
- REMOVING ASPHALTIC SURFACE BUTT JOINT
- REMOVING CURB & GUTTER
- RMC — REMOVING CURB & GUTTER
- REMOVING GUARDRAIL
- RMG — REMOVING GUARDRAIL
- XXXX — SAWING ASPHALT
- YYYY — SAWING CONCRETE
- REMOVING STORM SEWER/CULVERT

LEGEND

- (?)SAN — EXISTING UTILITIES SHOWN IN MAGENTA ARE APPROXIMATE LOCATIONS BASED ON SYSTEM MAPS
- SAN — EXISTING UTILITIES SHOWN IN DARK GRAY WERE SURVEYED BASED ON FIELD MARKINGS

PROJECT NO: 2310-09-71	HWY: STH 60	COUNTY: WASHINGTON	REMOVAL PLAN - RAMP A	SHEET 35	E

FILE NAME : K:\195704_STH 60 AND IH 41 INTERSECTION\3.0 DELIVERABLES\3.02 ROADWAY\AUTOCAD\SHEETS\021101-RM.DWG
LAYOUT NAME - 06

PLOT DATE : 12/15/2025 10:57 AM PLOT BY : OLSEN, CASSIE PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

2

RAMP A (SB ON-RAMP)

564+00 'AX'

565+00 'AX'

566+00 'AX'

567+00 'AX'

568+00 'AX'

569+00 'AX'

271+00 'IH'

270+00 'IH'

269+00 'IH'

268+00 'IH'

267+00 'IH'

266+00 'IH'

+86.35'IH', -58.22' LT

+86.35'IH', -49.00' LT

+31.33'IH', -49.00' LT

+31.37'IH', -56.75' LT

269E+00

268E+00

267E+00

266E+00

201

POST

SIGN

SIGN

SIGN

RAMP

RAMP

RAMP

GRUBBING
STA 557'AX'+00 TO 566'AX'+00

REMOVING FENCE
BY OTHERS

EXISTING R/W

WE ENERGIES ELECTRIC

BEGIN CONSTRUCTION
STA 267'E'+61.11

END CONSTRUCTION
STA 569'AX'+81.18

IH 41 NB

IH 41 SB

(?)FO
(?)E

N

LEGEND

- GRUBBING
- REMOVING CONCRETE SIDEWALK
- REMOVING CONCRETE PAVEMENT
- REMOVING ASPHALTIC SURFACE MILLING
- REMOVING ASPHALT (PAID AS COMMON EXCAVATION)
- REMOVING ASPHALTIC SURFACE BUTT JOINT
- REMOVING CURB & GUTTER
- RMC — REMOVING CURB & GUTTER
- REMOVING GUARDRAIL
- RMG — REMOVING GUARDRAIL
- XXXX — SAWING ASPHALT
- YYYY — SAWING CONCRETE
- REMOVING STORM SEWER/CULVERT

LEGEND

- (?)SAN — EXISTING UTILITIES SHOWN IN MAGENTA ARE APPROXIMATE LOCATIONS BASED ON SYSTEM MAPS
- SAN — EXISTING UTILITIES SHOWN IN DARK GRAY WERE SURVEYED BASED ON FIELD MARKINGS

PROJECT NO: 2310-09-71	HWY: STH 60	COUNTY: WASHINGTON	REMOVAL PLAN - RAMP A	SHEET 36	E

FILE NAME : K:\195704_STH 60 AND IH 41 INTERSECTION\3.0 DELIVERABLES\3.02 ROADWAY\AUTOCAD\SHEETS\021101-RM.DWG
LAYOUT NAME - 07
PLOT DATE : 12/15/2025 10:59 AM
PLOT BY : OLSEN, CASSIE
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2

WE ENERGIES ELECTRIC

WE ENERGIES ELECTRIC

END CONSTRUCTION
STA 282'B'+60

345+00

346+00

347+00

348+00

STH 60

(?)E

(?)E

(?)E

RMC

RMC

BEGIN CONSTRUCTION
STA 278'B'+73.61

279+00 'B'

280+00 'B'

281+00 'B'

282+00 'B'

283+00 'B'

284+00 'B'

RAMP B (SB OFF-RAMP)

REMOVING SMALL PIPE CULVERTS

96234

203

203

POST

POST

POST

POST

GUY

GUY

GUY

SIGN

SIGN

SIGN

MP

MP

RT

IH 41 SB

IH 41 NB

280+00 'H'

281+00 'H'

282+00 'H'

283+00 'H'

284+00 'H'

N

LEGEND

- GRUBBING
- REMOVING CONCRETE SIDEWALK
- REMOVING CONCRETE PAVEMENT
- REMOVING ASPHALTIC SURFACE MILLING
- REMOVING ASPHALT (PAID AS COMMON EXCAVATION)
- REMOVING ASPHALTIC SURFACE BUTT JOINT
- REMOVING CURB & GUTTER
- RMC REMOVING CURB & GUTTER
- REMOVING GUARDRAIL
- RMG REMOVING GUARDRAIL
- XXXX SAWING ASPHALT
- YYYY SAWING CONCRETE
- REMOVING STORM SEWER/CULVERT

LEGEND

- (?)SAN — EXISTING UTILITIES SHOWN IN MAGENTA ARE APPROXIMATE LOCATIONS BASED ON SYSTEM MAPS
- SAN — EXISTING UTILITIES SHOWN IN DARK GRAY WERE SURVEYED BASED ON FIELD MARKINGS

PROJECT NO: 2310-09-71	HWY: STH 60	COUNTY: WASHINGTON	REMOVAL PLAN - RAMP B	SHEET 37	E

FILE NAME : K:\195704_STH 60 AND IH 41 INTERSECTION\3.0 DELIVERABLES\3.02 ROADWAY\AUTOCAD\SHEETS\021101-RM.DWG
LAYOUT NAME - 08

PLOT DATE : 12/15/2025 11:01 AM PLOT BY : OLSEN, CASSIE PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

LEGEND

(?)SAN — EXISTING UTILITIES SHOWN IN MAGENTA ARE APPROXIMATE LOCATIONS BASED ON SYSTEM MAPS

SAN — EXISTING UTILITIES SHOWN IN COLOR WERE SURVEYED BASED ON FIELD MARKINGS

N

EXISTING R/W

WE ENERGIES ELECTRIC

FRONTIER COMMUNICATIONS

TEL

WE ENERGIES ELECTRIC

+00 , -39.80' LT

BEGIN PROJECT
STA 341+00.00
Y=148,201.694
X=343,257.556

AG01

WE ENERGIES ELECTRIC

+64.21 , -53.66' LT

+64.28 , -42.55' LT

AP1

R/L STH 60

+54.70 , -9.94' LT

STH 60 WB

340+00 341+00 342+00 343+00 344+00 345+00

2' 40' 33'

+00 , 32.00' RT

+00 , 45.58' RT

32'

+39.75 , 32.00' RT

END RAMP A CONSTRUCTION
STA 282'A'+31.09, 0.00'

+55.16 , 10.02' RT

+54.89 , 34.50' RT

+54.62 , 39.07' RT

STH 60 EB

25'

283'A'+00 282'A'+00 281'A'+00 280'A'+00

+05.33 'A', 0.00'

15' 5' 3'

+55.94 , 42.50' RT

CP2 CP4

R/L 'A'

AP2 AG03 AG02

AP1 AG02

AG01 AG02

SI

AP2 AG02

WE ENERGIES ELECTRIC

FRONTIER COMMUNICATIONS

REMOVE, SALVAGE, AND RELOCATE BARRICADE RACK

28' MIN

AP2 AG03 AG02

AP2 AG02

DITCH C/L

EXISTING R/W

GUY

POST

ISO POST

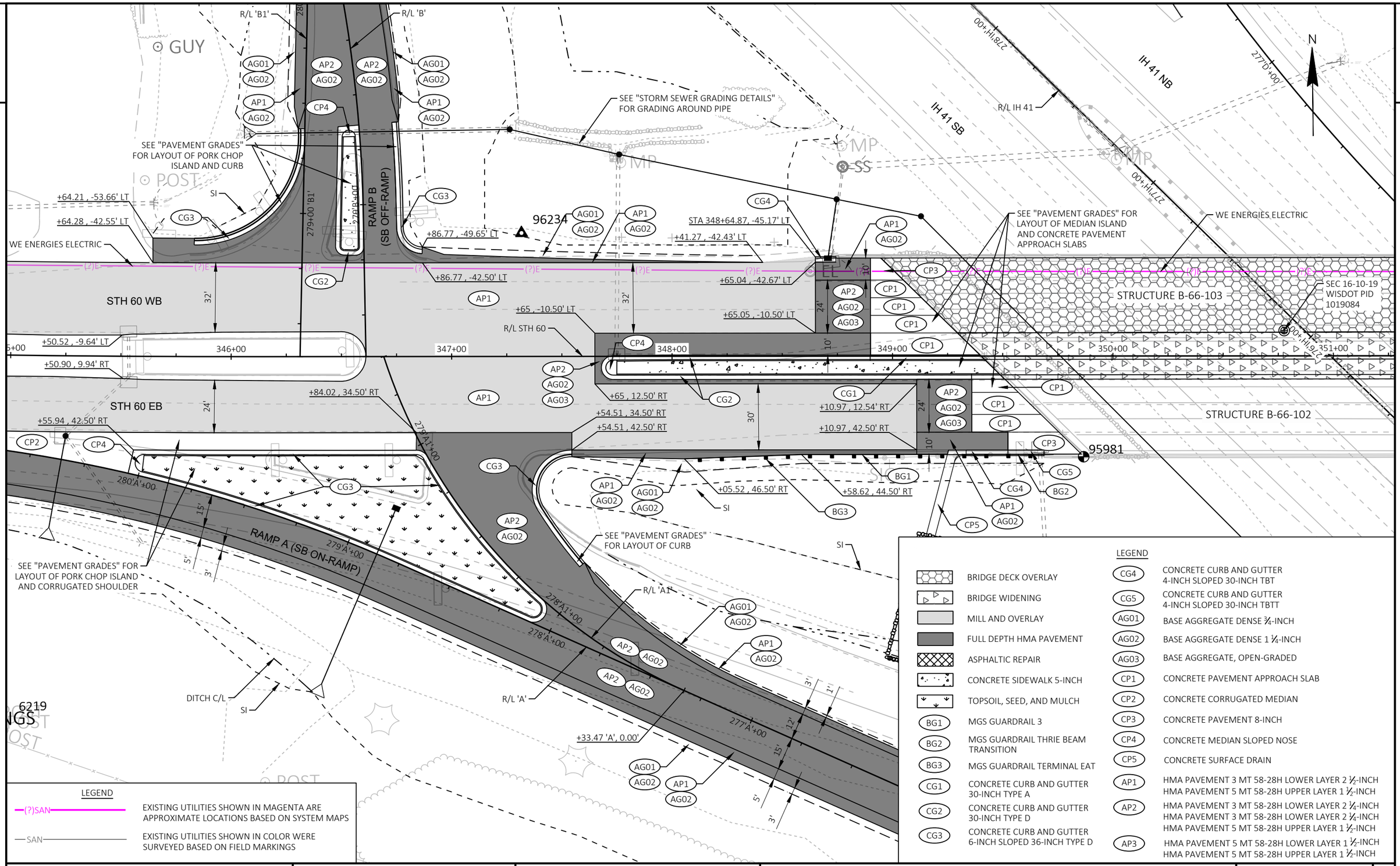
SIGN

IP

LEGEND

	BRIDGE DECK OVERLAY	CG4	CONCRETE CURB AND GUTTER 4-INCH SLOPED 30-INCH TBT
	BRIDGE WIDENING	CG5	CONCRETE CURB AND GUTTER 4-INCH SLOPED 30-INCH TBTT
	MILL AND OVERLAY	AG01	BASE AGGREGATE DENSE ¾-INCH
	FULL DEPTH HMA PAVEMENT	AG02	BASE AGGREGATE DENSE 1 ¼-INCH
	ASPHALTIC REPAIR	AG03	BASE AGGREGATE, OPEN-GRADED
	CONCRETE SIDEWALK 5-INCH	CP1	CONCRETE PAVEMENT APPROACH SLAB
	TOPSOIL, SEED, AND MULCH	CP2	CONCRETE CORRUGATED MEDIAN
BG1	MGS GUARDRAIL 3	CP3	CONCRETE PAVEMENT 8-INCH
BG2	MGS GUARDRAIL THRIE BEAM TRANSITION	CP4	CONCRETE MEDIAN SLOPED NOSE
BG3	MGS GUARDRAIL TERMINAL EAT	CP5	CONCRETE SURFACE DRAIN
CG1	CONCRETE CURB AND GUTTER 30-INCH TYPE A	AP1	HMA PAVEMENT 3 MT 58-28H LOWER LAYER 2 ½-INCH HMA PAVEMENT 5 MT 58-28H UPPER LAYER 1 ½-INCH
CG2	CONCRETE CURB AND GUTTER 30-INCH TYPE D	AP2	HMA PAVEMENT 3 MT 58-28H LOWER LAYER 2 ¼-INCH HMA PAVEMENT 3 MT 58-28H LOWER LAYER 2 ¼-INCH HMA PAVEMENT 5 MT 58-28H UPPER LAYER 1 ½-INCH
CG3	CONCRETE CURB AND GUTTER 6-INCH SLOPED 36-INCH TYPE D	AP3	HMA PAVEMENT 5 MT 58-28H LOWER LAYER 1 ½-INCH HMA PAVEMENT 5 MT 58-28H UPPER LAYER 1 ½-INCH

PROJECT NO: 2310-09-71	HWY: STH 60	COUNTY: WASHINGTON	PLAN DETAILS	SHEET 38	E



LEGEND

(?)SAN	EXISTING UTILITIES SHOWN IN MAGENTA ARE APPROXIMATE LOCATIONS BASED ON SYSTEM MAPS
SAN	EXISTING UTILITIES SHOWN IN COLOR WERE SURVEYED BASED ON FIELD MARKINGS

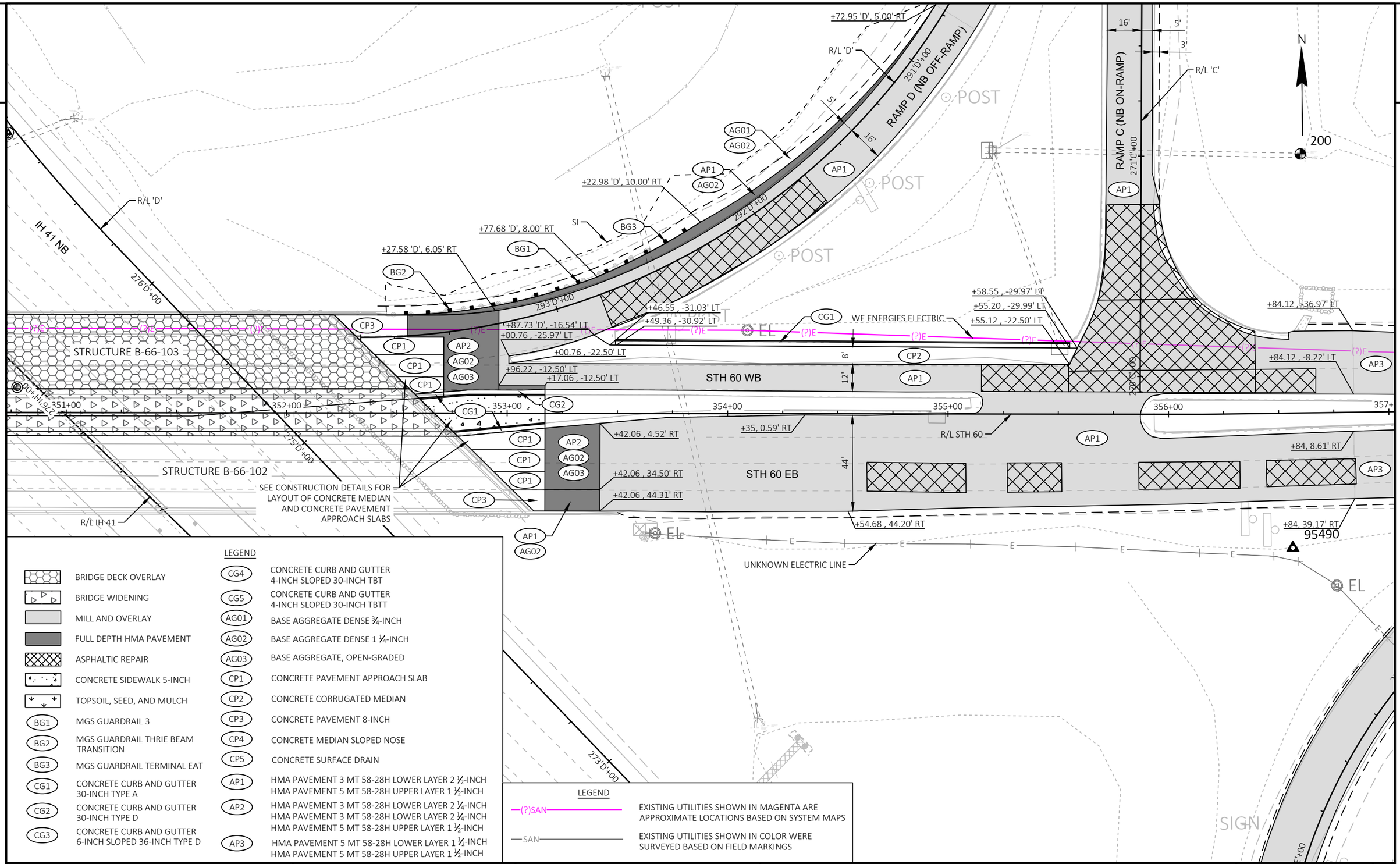
LEGEND

	BRIDGE DECK OVERLAY
	BRIDGE WIDENING
	MILL AND OVERLAY
	FULL DEPTH HMA PAVEMENT
	ASPHALTIC REPAIR
	CONCRETE SIDEWALK 5-INCH
	TOPSOIL, SEED, AND MULCH
BG1	MGS GUARDRAIL 3
BG2	MGS GUARDRAIL THRIE BEAM TRANSITION
BG3	MGS GUARDRAIL TERMINAL EAT
CG1	CONCRETE CURB AND GUTTER 30-INCH TYPE A
CG2	CONCRETE CURB AND GUTTER 30-INCH TYPE D
CG3	CONCRETE CURB AND GUTTER 6-INCH SLOPED 36-INCH TYPE D
CG4	CONCRETE CURB AND GUTTER 4-INCH SLOPED 30-INCH TBT
CG5	CONCRETE CURB AND GUTTER 4-INCH SLOPED 30-INCH TBTT
AG01	BASE AGGREGATE DENSE ¾-INCH
AG02	BASE AGGREGATE DENSE 1 ¼-INCH
AG03	BASE AGGREGATE, OPEN-GRADED
CP1	CONCRETE PAVEMENT APPROACH SLAB
CP2	CONCRETE CORRUGATED MEDIAN
CP3	CONCRETE PAVEMENT 8-INCH
CP4	CONCRETE MEDIAN SLOPED NOSE
CP5	CONCRETE SURFACE DRAIN
AP1	HMA PAVEMENT 3 MT 58-28H LOWER LAYER 2 ½-INCH HMA PAVEMENT 5 MT 58-28H UPPER LAYER 1 ½-INCH
AP2	HMA PAVEMENT 3 MT 58-28H LOWER LAYER 2 ¼-INCH HMA PAVEMENT 3 MT 58-28H LOWER LAYER 2 ¼-INCH HMA PAVEMENT 5 MT 58-28H UPPER LAYER 1 ½-INCH
AP3	HMA PAVEMENT 5 MT 58-28H LOWER LAYER 1 ½-INCH HMA PAVEMENT 5 MT 58-28H UPPER LAYER 1 ½-INCH

PROJECT NO: 2310-09-71	HWY: STH 60	COUNTY: WASHINGTON	PLAN DETAILS	SHEET 39	E

FILE NAME : K:\195704_STH 60 AND IH 41 INTERSECTION\3.0 DELIVERABLES\3.02 ROADWAY\AUTOCAD\SHEETS\021201-PD.DWG
LAYOUT NAME - 02
PLOT DATE : 12/15/2025 12:02 PM
PLOT BY : OLSEN, CASSIE
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2



LEGEND

	BRIDGE DECK OVERLAY	CG4	CONCRETE CURB AND GUTTER 4-INCH SLOPED 30-INCH TBT
	BRIDGE WIDENING	CG5	CONCRETE CURB AND GUTTER 4-INCH SLOPED 30-INCH TBTT
	MILL AND OVERLAY	AG01	BASE AGGREGATE DENSE ¾-INCH
	FULL DEPTH HMA PAVEMENT	AG02	BASE AGGREGATE DENSE 1 ¼-INCH
	ASPHALTIC REPAIR	AG03	BASE AGGREGATE, OPEN-GRADED
	CONCRETE SIDEWALK 5-INCH	CP1	CONCRETE PAVEMENT APPROACH SLAB
	TOPSOIL, SEED, AND MULCH	CP2	CONCRETE CORRUGATED MEDIAN
BG1	MGS GUARDRAIL 3	CP3	CONCRETE PAVEMENT 8-INCH
BG2	MGS GUARDRAIL THRIE BEAM TRANSITION	CP4	CONCRETE MEDIAN SLOPED NOSE
BG3	MGS GUARDRAIL TERMINAL EAT	CP5	CONCRETE SURFACE DRAIN
CG1	CONCRETE CURB AND GUTTER 30-INCH TYPE A	AP1	HMA PAVEMENT 3 MT 58-28H LOWER LAYER 2 ½-INCH HMA PAVEMENT 5 MT 58-28H UPPER LAYER 1 ½-INCH
CG2	CONCRETE CURB AND GUTTER 30-INCH TYPE D	AP2	HMA PAVEMENT 3 MT 58-28H LOWER LAYER 2 ¼-INCH HMA PAVEMENT 3 MT 58-28H LOWER LAYER 2 ¼-INCH HMA PAVEMENT 5 MT 58-28H UPPER LAYER 1 ½-INCH
CG3	CONCRETE CURB AND GUTTER 6-INCH SLOPED 36-INCH TYPE D	AP3	HMA PAVEMENT 5 MT 58-28H LOWER LAYER 1 ½-INCH HMA PAVEMENT 5 MT 58-28H UPPER LAYER 1 ½-INCH

LEGEND

(?)SAN	EXISTING UTILITIES SHOWN IN MAGENTA ARE APPROXIMATE LOCATIONS BASED ON SYSTEM MAPS
SAN	EXISTING UTILITIES SHOWN IN COLOR WERE SURVEYED BASED ON FIELD MARKINGS

PROJECT NO: 2310-09-71	HWY: STH 60	COUNTY: WASHINGTON	PLAN DETAILS	SHEET 40	E

2

95981

SI

EDGE OF
TRAPEZOIDAL DITCH

IP

POST

IH 41 NB

IH 41 SB

R/L IH 41

R/L 'D'

N

272'D'+00

271'D'+00

274'IH'+00

273'IH'+00

272'IH'+00

271'IH'+00

+86.35 'IH', -49.00' LT

+86.35 'IH', -58.22' LT

AP2
AG02

AP1
AG02

AG01
AG02

3'

1'

12'

15'

5'

3'

+34.42 'A', 12.00' RT
BEGIN TAPER

VARIES
0'-12'

R/L 'A'

VARIES
12'-15'

276'A'+00

275'A'+00

274'A'+00

273'A'+00

272'A'+00

271'A'+00

RAMP A (SB ON-RAMP)

+59.93 'A', -15.00' LT
BEGIN TAPER

R1838'

R1668'

+93.91 'A', -88.13' LT

FENCE WOVEN WIRE 4-FT

EXISTING R/W

LEGEND

(?)SAN — EXISTING UTILITIES SHOWN IN MAGENTA ARE APPROXIMATE LOCATIONS BASED ON SYSTEM MAPS

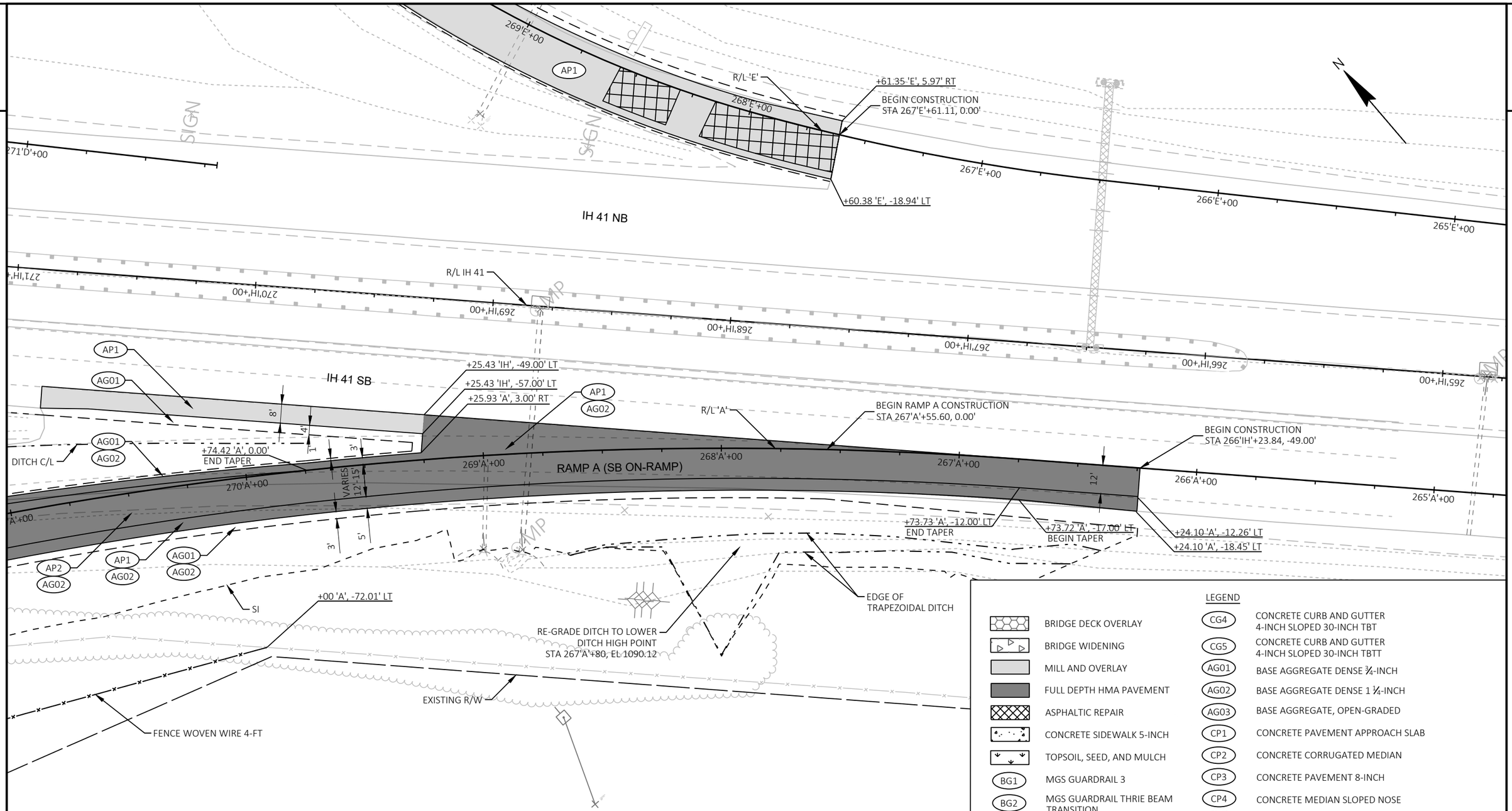
SAN — EXISTING UTILITIES SHOWN IN COLOR WERE SURVEYED BASED ON FIELD MARKINGS

LEGEND

BRIDGE DECK OVERLAY	CG4 — CONCRETE CURB AND GUTTER 4-INCH SLOPED 30-INCH TBT
BRIDGE WIDENING	CG5 — CONCRETE CURB AND GUTTER 4-INCH SLOPED 30-INCH TBTT
MILL AND OVERLAY	AG01 — BASE AGGREGATE DENSE ¾-INCH
FULL DEPTH HMA PAVEMENT	AG02 — BASE AGGREGATE DENSE 1 ¼-INCH
ASPHALTIC REPAIR	AG03 — BASE AGGREGATE, OPEN-GRADED
CONCRETE SIDEWALK 5-INCH	CP1 — CONCRETE PAVEMENT APPROACH SLAB
TOPSOIL, SEED, AND MULCH	CP2 — CONCRETE CORRUGATED MEDIAN
BG1 — MGS GUARDRAIL 3	CP3 — CONCRETE PAVEMENT 8-INCH
BG2 — MGS GUARDRAIL THRIE BEAM TRANSITION	CP4 — CONCRETE MEDIAN SLOPED NOSE
BG3 — MGS GUARDRAIL TERMINAL EAT	CP5 — CONCRETE SURFACE DRAIN
CG1 — CONCRETE CURB AND GUTTER 30-INCH TYPE A	AP1 — HMA PAVEMENT 3 MT 58-28H LOWER LAYER 2 ½-INCH HMA PAVEMENT 5 MT 58-28H UPPER LAYER 1 ½-INCH
CG2 — CONCRETE CURB AND GUTTER 30-INCH TYPE D	AP2 — HMA PAVEMENT 3 MT 58-28H LOWER LAYER 2 ¼-INCH HMA PAVEMENT 3 MT 58-28H LOWER LAYER 2 ¼-INCH HMA PAVEMENT 5 MT 58-28H UPPER LAYER 1 ½-INCH
CG3 — CONCRETE CURB AND GUTTER 6-INCH SLOPED 36-INCH TYPE D	AP3 — HMA PAVEMENT 5 MT 58-28H LOWER LAYER 1 ½-INCH HMA PAVEMENT 5 MT 58-28H UPPER LAYER 1 ½-INCH

PROJECT NO: 2310-09-71	HWY: STH 60	COUNTY: WASHINGTON	PLAN DETAILS - RAMP A	SHEET 41	E

2



LEGEND

(?)SAN	EXISTING UTILITIES SHOWN IN MAGENTA ARE APPROXIMATE LOCATIONS BASED ON SYSTEM MAPS
SAN	EXISTING UTILITIES SHOWN IN COLOR WERE SURVEYED BASED ON FIELD MARKINGS

LEGEND

	BRIDGE DECK OVERLAY
	BRIDGE WIDENING
	MILL AND OVERLAY
	FULL DEPTH HMA PAVEMENT
	ASPHALTIC REPAIR
	CONCRETE SIDEWALK 5-INCH
	TOPSOIL, SEED, AND MULCH
BG1	MGS GUARDRAIL 3
BG2	MGS GUARDRAIL THRIE BEAM TRANSITION
BG3	MGS GUARDRAIL TERMINAL EAT
CG1	CONCRETE CURB AND GUTTER 30-INCH TYPE A
CG2	CONCRETE CURB AND GUTTER 30-INCH TYPE D
CG3	CONCRETE CURB AND GUTTER 6-INCH SLOPED 36-INCH TYPE D
CG4	CONCRETE CURB AND GUTTER 4-INCH SLOPED 30-INCH TBT
CG5	CONCRETE CURB AND GUTTER 4-INCH SLOPED 30-INCH TBTT
AG01	BASE AGGREGATE DENSE ¾-INCH
AG02	BASE AGGREGATE DENSE 1 ¼-INCH
AG03	BASE AGGREGATE, OPEN-GRADED
CP1	CONCRETE PAVEMENT APPROACH SLAB
CP2	CONCRETE CORRUGATED MEDIAN
CP3	CONCRETE PAVEMENT 8-INCH
CP4	CONCRETE MEDIAN SLOPED NOSE
CP5	CONCRETE SURFACE DRAIN
AP1	HMA PAVEMENT 3 MT 58-28H LOWER LAYER 2 ½-INCH HMA PAVEMENT 5 MT 58-28H UPPER LAYER 1 ½-INCH
AP2	HMA PAVEMENT 3 MT 58-28H LOWER LAYER 2 ¼-INCH HMA PAVEMENT 3 MT 58-28H LOWER LAYER 2 ¼-INCH HMA PAVEMENT 5 MT 58-28H UPPER LAYER 1 ½-INCH
AP3	HMA PAVEMENT 5 MT 58-28H LOWER LAYER 1 ½-INCH HMA PAVEMENT 5 MT 58-28H UPPER LAYER 1 ½-INCH

PROJECT NO: 2310-09-71	HWY: STH 60	COUNTY: WASHINGTON	PLAN DETAILS - RAMP A	SHEET 42	E

2

N

345+00

346+00

347+00

348+00

STH 60

R/L STH 60

WE ENERGIES ELECTRIC

WE ENERGIES ELECTRIC

WE ENERGIES ELECTRIC

POST

GUY

POST

GUY

POST

GUY

POST

GUY

SIGN

SIGN

HMP

HMP

HO

HO

HO

HO

SI

EDGE OF TRAPEZOIDAL DITCH

+00 'B', -17.15' LT
END TAPER

284'B'+00

284'IH'+00

+60 'B', -8.00' LT
BEGIN TAPER

+60 'B', -3.62' LT
END TAPER

283'B'+00

283'IH'+00

IH 41 SB

IH 41 NB

END CONSTRUCTION
STA 282'B'+60, 0.00'

+11.25 'B', -5.00' LT
BEGIN TAPER

+86.14 'B', -76.80' LT

BEGIN CONSTRUCTION
STA 278'B'+74.10, -28.20'

CONSTRUCT CHECK DAM BERM
SEE CONSTRUCTION DETAILS

EDGE OF
TRAPEZOIDAL DITCH

SI

CG3

+38.40 'B1', -3.00' LT

+48.39 'B1', -5.00' LT

AP1

AG01

AG02

AG02

R/L 'B1'

281+00 'B1'

281'B'+00

280+00 'B1'

279+00 'B1'

282'B'+00

RAMP B (SB OFF-RAMP)

+60 'B', 18.72' RT
END TAPER

+11.25 'B', 19.00' RT
BEGIN TAPER

R/L IH 41

CG2

AP2

AG02

CP4

279'B'+00

280'B'+00

AP2

AG02

3

5

16

3

1

3

R/L 'B'

AG01

AG02

AP1

AG02

SI

DITCH CL

CG3

+45.90 'B', 19.00' RT

+36.15 'B', 18.00' RT

+80.30 'B', 26.35' RT

SEE "PAVEMENT GRADES"
FOR LAYOUT OF PORK CHOP
ISLAND AND CURB

EDGE OF
TRAPEZOIDAL DITCH

96234

SEE "STORM SEWER GRADING DETAILS"
FOR GRADING AROUND PIPE

281'IH'+00

282'IH'+00

BEGIN CONSTRUCTION
STA 278'B'+73.61, 0.00'

(?)E

(?)E

(?)E

LEGEND

(?)SAN	EXISTING UTILITIES SHOWN IN MAGENTA ARE APPROXIMATE LOCATIONS BASED ON SYSTEM MAPS
SAN	EXISTING UTILITIES SHOWN IN COLOR WERE SURVEYED BASED ON FIELD MARKINGS

LEGEND

	BRIDGE DECK OVERLAY
	BRIDGE WIDENING
	MILL AND OVERLAY
	FULL DEPTH HMA PAVEMENT
	ASPHALTIC REPAIR
	CONCRETE SIDEWALK 5-INCH
	TOPSOIL, SEED, AND MULCH
BG1	MGS GUARDRAIL 3
BG2	MGS GUARDRAIL THRIE BEAM TRANSITION
BG3	MGS GUARDRAIL TERMINAL EAT
CG1	CONCRETE CURB AND GUTTER 30-INCH TYPE A
CG2	CONCRETE CURB AND GUTTER 30-INCH TYPE D
CG3	CONCRETE CURB AND GUTTER 6-INCH SLOPED 36-INCH TYPE D
CG4	CONCRETE CURB AND GUTTER 4-INCH SLOPED 30-INCH TBT
CG5	CONCRETE CURB AND GUTTER 4-INCH SLOPED 30-INCH TBTT
AG01	BASE AGGREGATE DENSE ¾-INCH
AG02	BASE AGGREGATE DENSE 1 ¼-INCH
AG03	BASE AGGREGATE, OPEN-GRADED
CP1	CONCRETE PAVEMENT APPROACH SLAB
CP2	CONCRETE CORRUGATED MEDIAN
CP3	CONCRETE PAVEMENT 8-INCH
CP4	CONCRETE MEDIAN SLOPED NOSE
CP5	CONCRETE SURFACE DRAIN
AP1	HMA PAVEMENT 3 MT 58-28H LOWER LAYER 2 ½-INCH HMA PAVEMENT 5 MT 58-28H UPPER LAYER 1 ½-INCH
AP2	HMA PAVEMENT 3 MT 58-28H LOWER LAYER 2 ¼-INCH HMA PAVEMENT 3 MT 58-28H LOWER LAYER 2 ¼-INCH HMA PAVEMENT 5 MT 58-28H UPPER LAYER 1 ½-INCH
AP3	HMA PAVEMENT 5 MT 58-28H LOWER LAYER 1 ½-INCH HMA PAVEMENT 5 MT 58-28H UPPER LAYER 1 ½-INCH

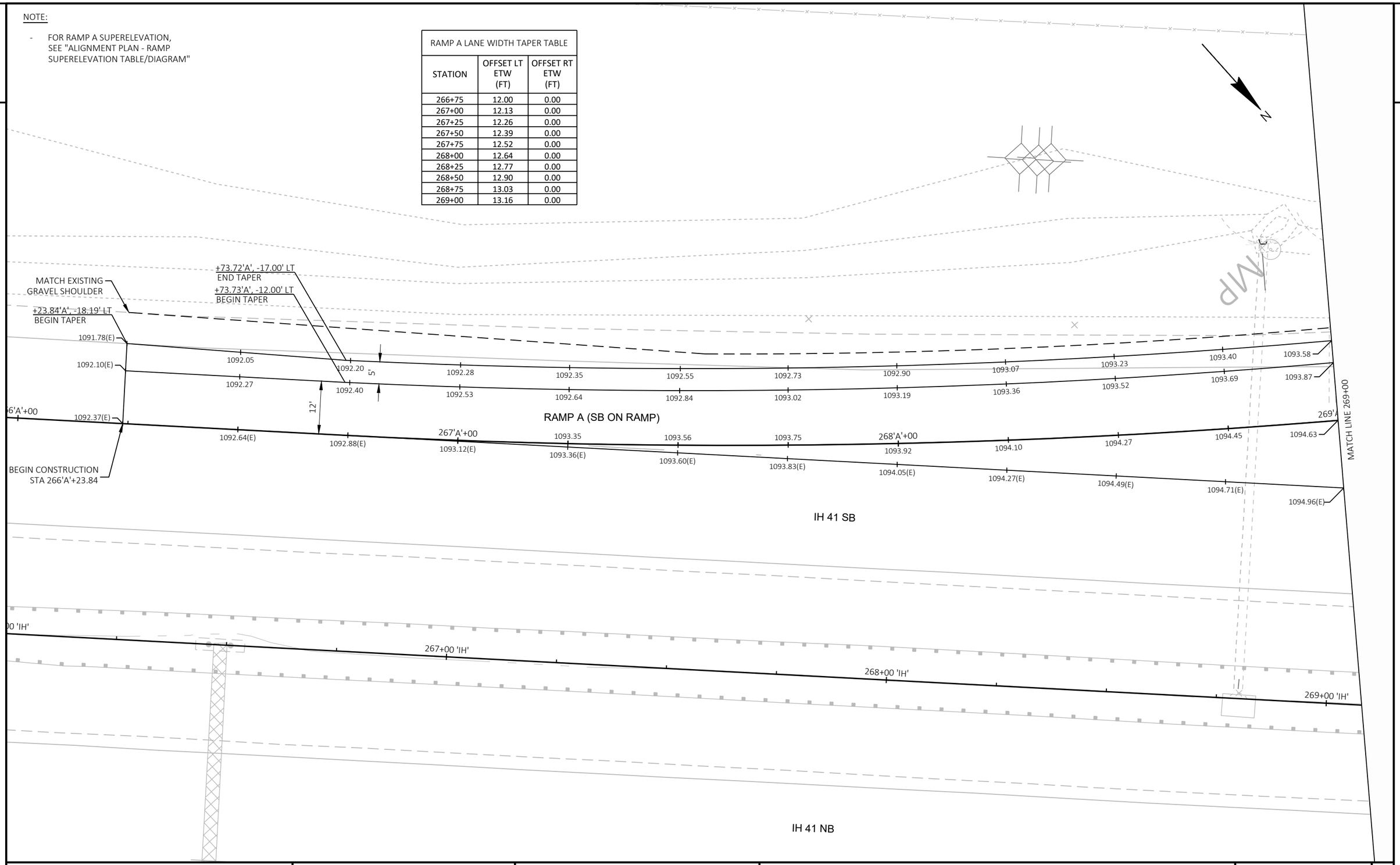
PROJECT NO: 2310-09-71	HWY: STH 60	COUNTY: WASHINGTON	PLAN DETAILS - RAMP B	SHEET 43	E

FILE NAME : K:\195704_STH 60 AND IH 41 INTERSECTION\3.0 DELIVERABLES\3.02 ROADWAY\AUTOCAD\SHEETS\021201-PD.DWG
LAYOUT NAME - 15
PLOT DATE : 12/15/2025 12:08 PM
PLOT BY : OLSEN, CASSIE
PLOT NAME :
PLOT SCALE : 1 IN:40 FT

NOTE:

- FOR RAMP A SUPERELEVATION, SEE "ALIGNMENT PLAN - RAMP SUPERELEVATION TABLE/DIAGRAM"

RAMP A LANE WIDTH TAPER TABLE		
STATION	OFFSET LT ETW (FT)	OFFSET RT ETW (FT)
266+75	12.00	0.00
267+00	12.13	0.00
267+25	12.26	0.00
267+50	12.39	0.00
267+75	12.52	0.00
268+00	12.64	0.00
268+25	12.77	0.00
268+50	12.90	0.00
268+75	13.03	0.00
269+00	13.16	0.00



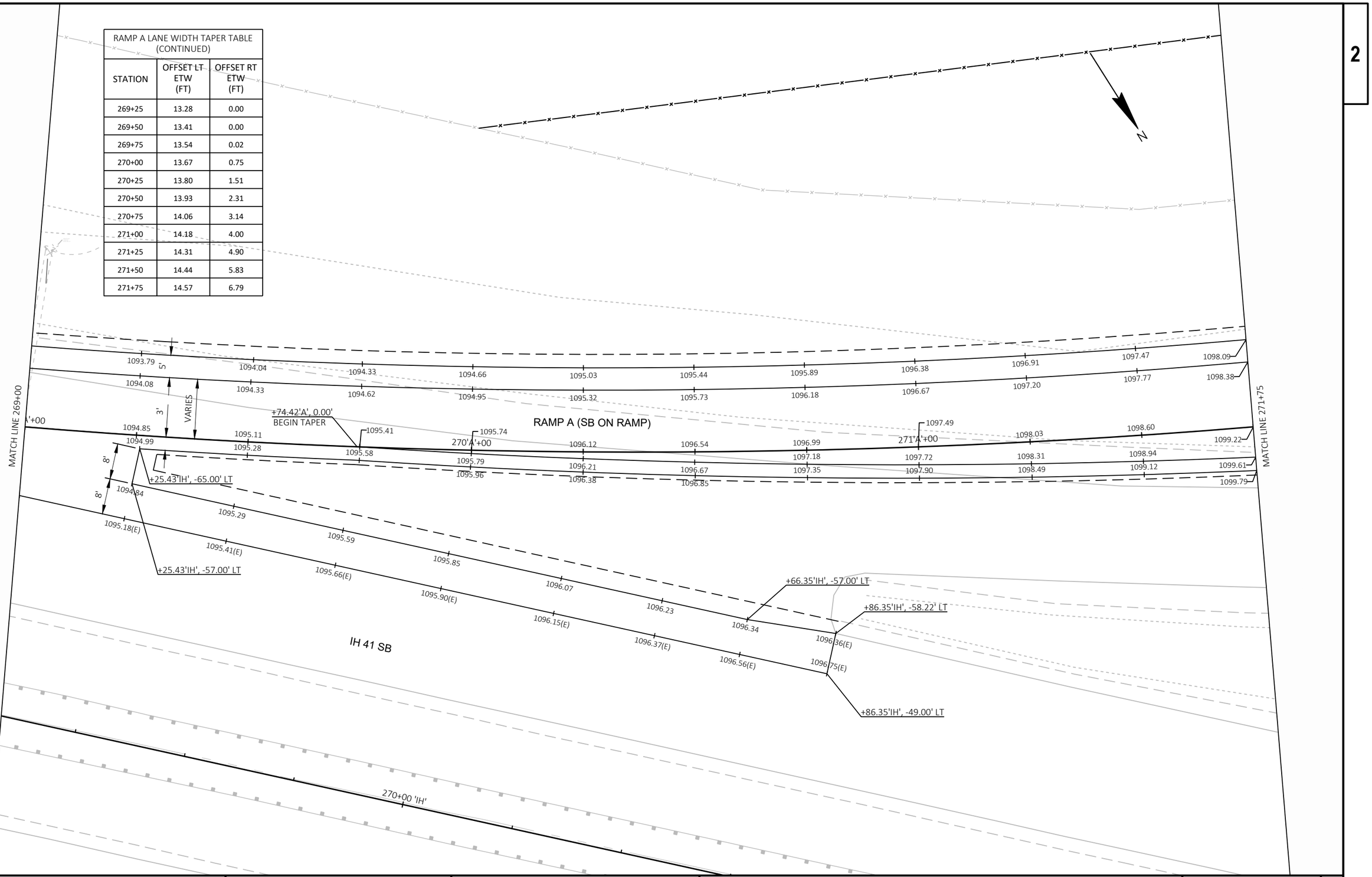
PROJECT NO: 2310-09-71	HWY: STH 60	COUNTY: WASHINGTON	PAVEMENT GRADES	SHEET 44	E

FILE NAME : K:\195704_STH 60 AND IH 41 INTERSECTION\3.0 DELIVERABLES\3.02 ROADWAY\AUTOCAD\SHEETS\021202-PG.DWG
LAYOUT NAME - 00

PLOT DATE : 10/23/2025 10:13 AM PLOT BY : OLSEN, CASSIE PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 42

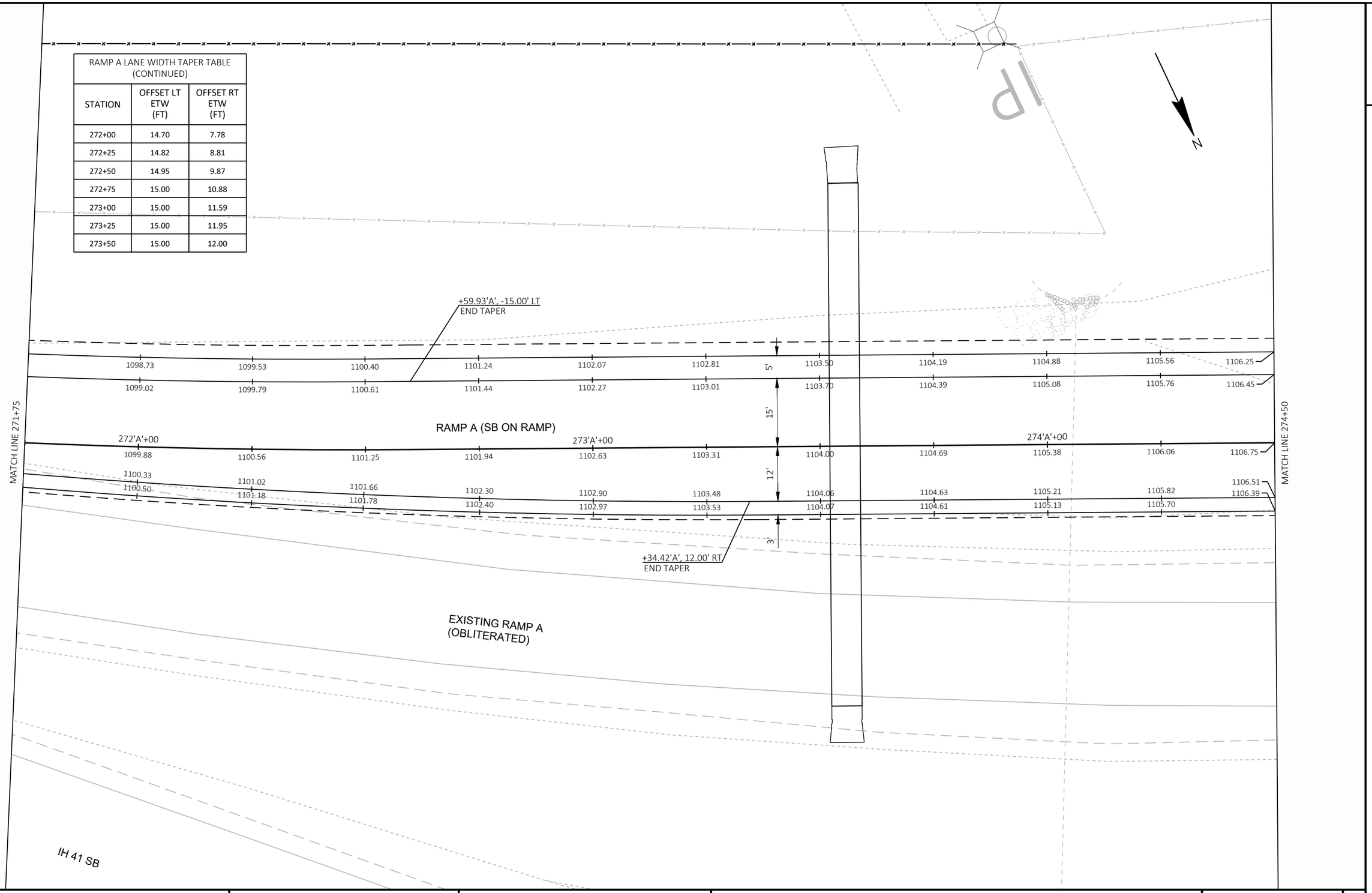
RAMP A LANE WIDTH TAPER TABLE (CONTINUED)		
STATION	OFFSET LT ETW (FT)	OFFSET RT ETW (FT)
269+25	13.28	0.00
269+50	13.41	0.00
269+75	13.54	0.02
270+00	13.67	0.75
270+25	13.80	1.51
270+50	13.93	2.31
270+75	14.06	3.14
271+00	14.18	4.00
271+25	14.31	4.90
271+50	14.44	5.83
271+75	14.57	6.79



PROJECT NO: 2310-09-71	HWY: STH 60	COUNTY: WASHINGTON	PAVEMENT GRADES	SHEET 45	E

FILE NAME : K:\195704_STH 60 AND IH 41 INTERSECTION\3.0 DELIVERABLES\3.02 ROADWAY\AUTOCAD\SHEETS\021202-PG.DWG
LAYOUT NAME - 01
PLOT DATE : 10/23/2025 10:15 AM PLOT BY : OLSEN, CASSIE PLOT NAME : PLOT SCALE : 1 IN:20 FT

RAMP A LANE WIDTH TAPER TABLE (CONTINUED)		
STATION	OFFSET LT ETW (FT)	OFFSET RT ETW (FT)
272+00	14.70	7.78
272+25	14.82	8.81
272+50	14.95	9.87
272+75	15.00	10.88
273+00	15.00	11.59
273+25	15.00	11.95
273+50	15.00	12.00



PROJECT NO: 2310-09-71	HWY: STH 60	COUNTY: WASHINGTON	PAVEMENT GRADES	SHEET 46	E

2

2

N

MATCH LINE 274+50

MATCH LINE 277+50

1106.94 1107.63 1108.31 1109.00 5' 1109.69 1110.38 1111.06 1111.75 1112.39 1112.98 1113.51 1113.99

1107.14 1107.83 1108.51 1109.20 1109.89 1110.58 1111.26 1111.95 1112.59 1113.18 1113.71 1114.19

RAMP A (SB ON RAMP)

15'

275'A'+00 276'A'+00 277'A'+00

1107.44 1108.13 1108.81 1109.50 1110.19 1110.88 1111.56 1112.25 1112.89 1113.48 1114.01 1114.51 1114.49

12'

1107.20 1107.89 1108.57 1109.26 1109.95 1110.64 1111.32 1112.01 1112.65 1113.24 1113.76 1114.21

1107.08 1107.77 1108.45 1109.14 1109.83 1110.52 1111.20 1111.89 1112.53 1113.12 1113.64 1114.09

3'

+10.12'A', 12.00' RT
BEGIN TAPER

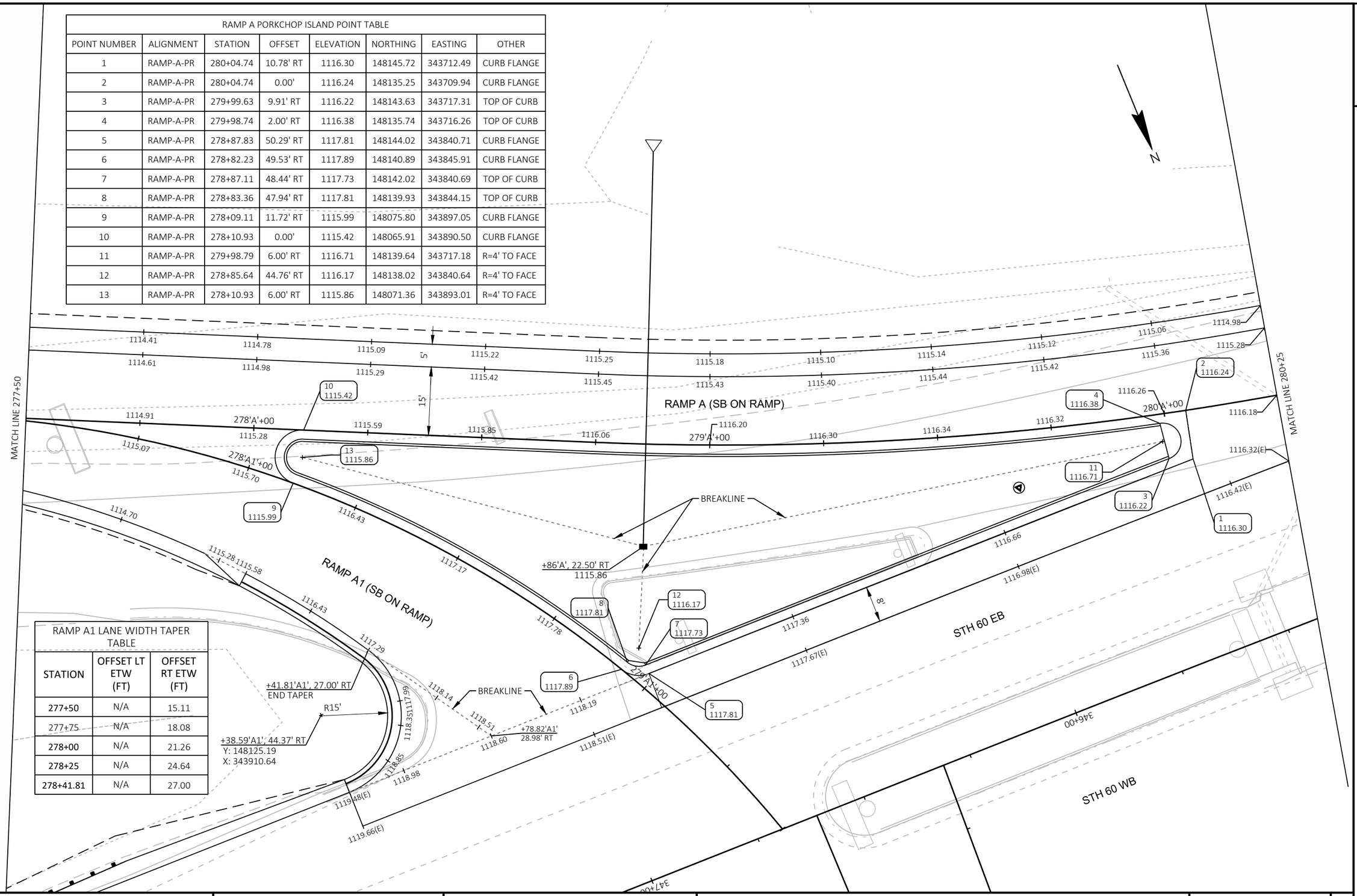
+33.47'A', 0.00'
BEGIN RAMP A1

EXISTING RAMP A
(OBLITERATED)

PROJECT NO: 2310-09-71	HWY: STH 60	COUNTY: WASHINGTON	PAVEMENT GRADES	SHEET 47	E

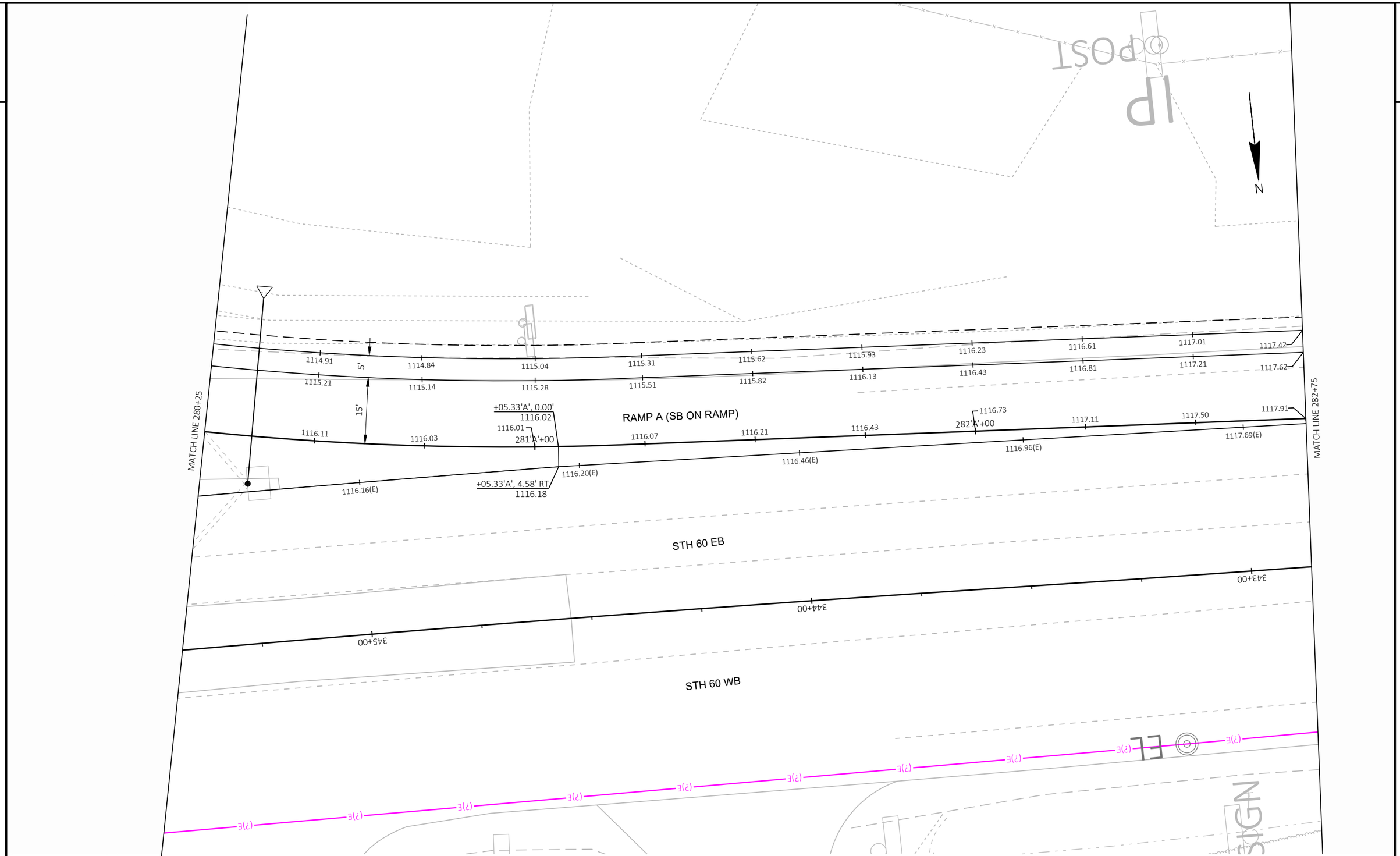
RAMP A PORKCHOP ISLAND POINT TABLE							
POINT NUMBER	ALIGNMENT	STATION	OFFSET	ELEVATION	NORTHING	EASTING	OTHER
1	RAMP-A-PR	280+04.74	10.78' RT	1116.30	148145.72	343712.49	CURB FLANGE
2	RAMP-A-PR	280+04.74	0.00'	1116.24	148135.25	343709.94	CURB FLANGE
3	RAMP-A-PR	279+99.63	9.91' RT	1116.22	148143.63	343717.31	TOP OF CURB
4	RAMP-A-PR	279+98.74	2.00' RT	1116.38	148135.74	343716.26	TOP OF CURB
5	RAMP-A-PR	278+87.83	50.29' RT	1117.81	148144.02	343840.71	CURB FLANGE
6	RAMP-A-PR	278+82.23	49.53' RT	1117.89	148140.89	343845.91	CURB FLANGE
7	RAMP-A-PR	278+87.11	48.44' RT	1117.73	148142.02	343840.69	TOP OF CURB
8	RAMP-A-PR	278+83.36	47.94' RT	1117.81	148139.93	343844.15	TOP OF CURB
9	RAMP-A-PR	278+09.11	11.72' RT	1115.99	148075.80	343897.05	CURB FLANGE
10	RAMP-A-PR	278+10.93	0.00'	1115.42	148065.91	343890.50	CURB FLANGE
11	RAMP-A-PR	279+98.79	6.00' RT	1116.71	148139.64	343717.18	R=4' TO FACE
12	RAMP-A-PR	278+85.64	44.76' RT	1116.17	148138.02	343840.64	R=4' TO FACE
13	RAMP-A-PR	278+10.93	6.00' RT	1115.86	148071.36	343893.01	R=4' TO FACE

RAMP A1 LANE WIDTH TAPER TABLE		
STATION	OFFSET LT ETW (FT)	OFFSET RT ETW (FT)
277+50	N/A	15.11
277+75	N/A	18.08
278+00	N/A	21.26
278+25	N/A	24.64
278+41.81	N/A	27.00



PROJECT NO: 2310-09-71	HWY: STH 60	COUNTY: WASHINGTON	PAVEMENT GRADES	SHEET 48	E

2



PROJECT NO: 2310-09-71	HWY: STH 60	COUNTY: WASHINGTON	PAVEMENT GRADES	SHEET 49	E

FILE NAME : K:\195704_STH 60 AND IH 41 INTERSECTION\3.0 DELIVERABLES\3.02 ROADWAY\AUTOCAD\SHEETS\021202-PG.DWG
LAYOUT NAME - 05

PLOT DATE : 10/23/2025 10:19 AM PLOT BY : OLSEN, CASSIE PLOT NAME : PLOT SCALE : 1 IN:20 FT

2

2

MATCH LINE 282+75

5'

15'

1117.88

1118.08

1118.85

1119.05

1119.79

1119.99

1120.74

1120.94

+00, 45.58' RT
1120.87(E)

+00, 40.59' RT
1121.11(E)

+00, 32.00' RT
1121.30(E)

RAMP A (SB ON RAMP)

283'A'+00

1118.38(E)

1119.33(E)

1120.22(E)

1121.13(E)

+20.34'A', 0.00'
1118.76(E)

STH 60 EB

342+00

341+00

BEGIN PROJECT
STA 341+00.00
Y=148,201.694
X=343,257.556

STH 60 WB

N

PROJECT NO: 2310-09-71	HWY: STH 60	COUNTY: WASHINGTON	PAVEMENT GRADES	SHEET 50	E

2

2

N

IH 41 SB

STH 60 WB

STH 60 EB

SS

EL

SIGN

STRUCTURE B-66-103

STRUCTURE B-66-102

BREAKLINE

APPROX. EX CROWN

APPROX. EX CROWN

BRIDGE

BRIDGE

R3'

4.0%

4.0%

4.0%

4.0%

348+00

349+00

350+00

(?)E

+65.04, -42.67' LT
1122.85(E)

+65.05, -34.48' LT
1123.05(E)

+65.05, -21.25' LT
1123.29(E)

+65.05, -10.50' LT
1123.22(E)

+90.04, -44.67' LT
1123.46(E)

+94.74, -44.60' LT
1123.64(E)

+90.04, -34.50' LT
1123.62(E)

+90.05, -26.50' LT
1123.73(E)

+90.05, -21.28' LT
1123.84(E)

+90.05, -10.50' LT
1123.77(E)

+89.88, -0.50' LT
1123.56

+05.04, -34.50' LT
1124.06(E)

+13.21, -26.50' LT
1124.33(E)

+18.49, -21.32' LT
1124.58(E)

+29.54, -10.50' LT
1124.68

+39.62, -0.50' LT
1124.66

+42.30, 2.00' RT
1125.31(E)

+44.29, 3.95' RT
1125.35(E)

+48.40, 7.98' RT
1125.52(E)

+50.97, 10.50' RT
1125.06(E)

+62.70, 21.99' RT
1125.46(E)

+67.32, 26.50' RT
1125.46(E)

+75.47, 34.50' RT
1125.46(E)

+85.76, 44.58' RT
1125.41(E)

+68.71, 42.67' RT
1125.04(E)

+52.32, 42.66' RT
1124.78(E)

+52.32, 34.50' RT
1125.02(E)

+35.97, 34.50' RT
1124.68(E)

+35.97, 26.50' RT
1124.77(E)

+35.97, 21.94' RT
1124.83(E)

+35.97, 10.50' RT
1124.76(E)

+10.97, 42.50' RT
1123.86(E)

+10.97, 34.50' RT
1124.07(E)

+10.97, 21.91' RT
1124.26(E)

+10.97, 12.54' RT
1124.26(E)

+10.97, 10.50' RT
1124.21(E)

1120.53(E) 1120.79(E) 1121.46(E) 1122.17(E) 1122.85(E)

1120.71(E) 1121.33(E) 1122.03(E) 1122.76(E) 1123.24 1123.79

1123.71(E) 1124.32(E) 1124.87(E)

1120.78(E) 1121.47(E) 1122.12(E) 1122.76(E) 1123.38(E) 1123.97(E) 1124.53(E)

1120.51(E) 1120.76(E) 1121.47(E) 1122.17(E) 1122.80(E) 1123.42(E) 1124.02(E)

NOTE:

MATCH EXISTING CROWNS THROUGH APPROACH SLABS. APPROXIMATE LOCATIONS SHOWN, VERIFY WITH ENGINEER IN THE FIELD.

PROJECT NO: 2310-09-71	HWY: STH 60	COUNTY: WASHINGTON	PAVEMENT GRADES	SHEET 51	E

2

2

NOTE:

MATCH EXISTING CROWNS THROUGH APPROACH SLABS.
APPROXIMATE LOCATIONS SHOWN, VERIFY WITH
ENGINEER IN THE FIELD.

N

STRUCTURE B-66-103

RAMP D (NB OFF-RAMP)

292+00 'D'

293+00 'D'

+54.89, -44.50' LT
1127.80(E)

+25.85'D', 5.95' RT
1127.49(E)

+21.63, -44.39' LT
1127.88(E)

+54.89, -34.50' LT
1128.10(E)

+27.10'D', 0.00'
1127.67(E)

+31.72, -34.50' LT
1128.05(E)

+71.22, -34.50' LT
1128.03(E)

APPROX.
EX CROWN

+29.93'D', -14.34' LT
1128.07(E)

+39.89, -26.50' LT
1128.24(E)

+71.22, -26.50' LT
1128.22(E)

+96.22, -21.82' LT
1128.15(E)

+44.72, -21.77' LT
1128.35(E)

+71.22, -21.80' LT
1128.29(E)

+96.22, -12.50' LT
1128.25(E)

+56.22, -10.50' LT
1128.25(E)

+71.22, -9.61' LT
1128.22

1128.25(E)

1128.17(E)

1128.21(E)

STH 60 WB

+58.19, -8.57' LT
1128.17

BRIDGE

4.0%

EX

+82.39, -10.50' LT
1128.28(E)

1128.25(E)

+60.49, -6.32' LT
1128.61

352+00

353+00

354+00

1128.68(E)

1128.49(E)

1128.35(E)

+70.76, 4.00' RT
1128.73(E)

+75.11, 8.00' RT
1128.67(E)

+77.66, 10.50' RT
1128.24(E)

BRIDGE

4.0%

EX

1128.13(E)

+17.15, 6.72' RT
1128.04(E)

+42.15, 4.52' RT
1127.90(E)

APPROX.
EX CROWN

+17.15, 22.48' RT
1128.17(E)

+42.15, 22.52' RT
1128.04(E)

+89.82, 22.41' RT
1128.37(E)

+17.15, 26.50' RT
1128.13(E)

+93.99, 26.50' RT
1128.31(E)

+17.15, 34.50' RT
1128.06(E)

+42.15, 34.50' RT
1127.89(E)

STH 60 EB

+02.15, 34.50' RT
1128.19(E)

+17.15, 44.43' RT
1127.85(E)

+42.15, 44.72' RT
1127.66(E)

+12.27, 44.40' RT
1127.88(E)

275+00 'D'

STRUCTURE B-66-102

IH 41 NB

275+00 'IH'

PROJECT NO: 2310-09-71	HWY: STH 60	COUNTY: WASHINGTON	PAVEMENT GRADES	SHEET 52	E

FILE NAME : K:\195704_STH 60 AND IH 41 INTERSECTION\3.0 DELIVERABLES\3.02 ROADWAY\AUTOCAD\SHEETS\021202-PG.DWG
LAYOUT NAME - 08

PLOT DATE : 10/30/2025 4:10 PM PLOT BY : OLSEN, CASSIE PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 42

RAMP B CHANNELIZING ISLAND POINT TABLE							
POINT NUMBER	ALIGNMENT	STATION	OFFSET	ELEVATION	NORTHING	EASTING	OTHER
19	RAMP-B-PR	279+31.11	5.00' LT	1116.55	148286.47	343811.91	R=3' TO FACE
20	RAMP-B-PR	279+36.15	9.51' LT	1115.95	148291.14	343807.09	CURB FLANGE
21	RAMP-B-PR	279+36.15	0.00'	1116.09	148291.79	343816.57	CURB FLANGE
22	RAMP-B-PR	279+31.40	7.96' LT	1115.89	148286.56	343808.93	TOP OF CURB
23	RAMP-B-PR	279+31.11	2.00' LT	1116.20	148286.65	343814.90	TOP OF CURB
24	RAMP-B-PR	278+80.57	0.00'	1117.55	148236.25	343818.17	CURB FLANGE
25	RAMP-B-PR	278+77.12	4.08' LT	1117.61	148232.78	343814.11	CURB FLANGE
26	RAMP-B-PR	278+80.98	3.85' LT	1117.92	148236.64	343814.31	R=4' TO FACE
27	RAMP-B-PR	278+77.28	8.98' LT	1117.52	148232.91	343809.21	CURB FLANGE
28	RAMP-B-PR	278+81.43	12.90' LT	1117.33	148237.04	343805.27	CURB FLANGE
29	RAMP-B-PR	278+81.28	8.85' LT	1117.79	148236.91	343809.31	R=4' TO FACE

N

STH 60 WB

346+00

347+00

(?)E

+64.28, -42.55' LT
1116.26(E)

+64.21, -53.66' LT
1115.10(E)

+83.07, -50.62' LT

1116.42(E)

1116.48(E)

1117.31(E)

1116.10

1116.41

1116.15

R49'

+37.24'B', -73.87' LT
Y: 148287.65
X: 343742.81

+38.36'B1', 0.00'

BREAKLINE

279'B1'+00

280'B1'+00

R/L 'B1'

R/L 'B'

RAMP B1 (SB OFF-RAMP)

RAMP B (SB OFF-RAMP)

15'

28 1117.33
29 1117.79
27 1117.52
25 1117.61
24 1117.55
26 1117.92
19 1116.55
22 1115.89
20 1115.95
21 1116.09
23 1116.20

1116.62 1115.85 1115.43 1115.06 1114.25 1113.47 1112.69 1111.91 1111.43 1110.48

1117.33 1116.97 1116.33 1115.76 1115.02 1114.25 1113.25 1112.38 1111.64

1117.79 1117.18 1116.57 1115.73 1115.71 1114.32 1113.55 1112.77 1111.83

1117.52 1116.97 1116.33 1115.76 1115.02 1114.25 1113.47 1112.57

1117.61 1117.18 1116.57 1116.31 1116.30 1115.05 1115.05 1114.28

1117.66 1117.47 1116.89 1116.58

1113.98 1113.16 1112.32 1111.53 1110.72 1109.87

1114.25 1113.47 1112.69 1111.91 1111.09 1110.24

MATCHLINE 281+00

281'

R12'

+89.28'B', 27.03' RT
Y: 148245.12
X: 343845.14

SIGN

PROJECT NO: 2310-09-71	HWY: STH 60	COUNTY: WASHINGTON	PAVEMENT GRADES	SHEET 53	E

FILE NAME : K:\195704_STH 60 AND IH 41 INTERSECTION\3.0 DELIVERABLES\3.02 ROADWAY\AUTOCAD\SHEETS\021202-PG.DWG
LAYOUT NAME - 09

PLOT DATE : 10/23/2025 10:24 AM PLOT BY : OLSEN, CASSIE PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 42

2

+60'B', -3.62' LT
1108.30(E)

+60'B', 0.00'
1108.58(E)

+60'B', 16.00' RT
1109.72(E)

+60'B', 18.72' RT
1109.91(E)

RAMP B (SB OFF-RAMP)

282'B'+00

281+00

283+00 'IH'

282+00 'IH'

R/L 'B1'

R/L 'B'

MATCHLINE 281+00

GUY

GUY

SIGN

SIGN

IH 41 SB

IH 41 NB

N

PROJECT NO: 2310-09-71	HWY: STH 60	COUNTY: WASHINGTON	PAVEMENT GRADES	SHEET 54	E

IH 41 SB

RAMP B (SB OFF-RAMP)

280'B'

280'B1'

STH 60 WB

(?)E

SS

348

PROJECT NO: 2310-09-71	HWY: STH 60	COUNTY: WASHINGTON	CONTOUR MAP - NW INFIELD AREA	SHEET 55	E

FILE NAME : K:\195704_STH 60 AND IH 41 INTERSECTION\3.0 DELIVERABLES\3.02 ROADWAY\AUTOCAD\SHEETS\021701-CM.DWG
LAYOUT NAME - 01

PLOT DATE : 10/24/2025 2:16 PM PLOT BY : OLSEN, CASSIE PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 42

2

2

IH 41 SB

STH 60 EB

RAMP A (SB ON-RAMP)

PROJECT NO: 2310-09-71	HWY: STH 60	COUNTY: WASHINGTON	CONTOUR MAP - SW INFIELD AREA	SHEET 56	E

FILE NAME : K:\195704_STH 60 AND IH 41 INTERSECTION\3.0 DELIVERABLES\3.02 ROADWAY\AUTOCAD\SHEETS\021701-CM.DWG
LAYOUT NAME - 02

PLOT DATE : 10/22/2025 4:23 PM PLOT BY : OLSEN, CASSIE PLOT NAME : PLOT SCALE : 1 IN:50 FT

2

2

N

EXISTING R/W

WE ENERGIES ELECTRIC

WE ENERGIES ELECTRIC

TEL

EL

SIGN

POST

POST

340+00

341+00

342+00

343+00

344+00

345+00

MATCH LINE 345+50

BEGIN PROJECT
STA 341+00.00
Y=148,201.694
X=343,257.556

STH 60

283+00 'A'

RAMP A (SB ON-RAMP)

282+00 'A'

281+00 'A'

A D

POST

WE ENERGIES ELECTRIC

FRONTIER COMMUNICATIONS

IP

POST

MP

EXISTING R/W

6219

NGS

POST

POST

LEGEND

- TOPSOIL, FERTILIZER TYPE B, SEEDING MIXTURE NO. 30, & MULCH
- SILT FENCE
- EROSION BALE, BARRIER
- SLOPE INTERCEPT
- INLET PROTECTION
- A D — INLET PROTECTION TYPE
- TEMPORARY DITCH CHECK
- CULVERT PIPE CHECK
- TSB — TEMPORARY SEDIMENT BASIN
- SURFACE WATER FLOW

PROJECT NO: 2310-09-71	HWY: STH 60	COUNTY: WASHINGTON	EROSION CONTROL	SHEET 57	E

FILE NAME : K:\195704_STH 60 AND IH 41 INTERSECTION\3.0 DELIVERABLES\3.02 ROADWAY\AUTOCAD\SHEETS\022001-EC.DWG
LAYOUT NAME - 01

PLOT DATE : 10/24/2025 9:57 AM PLOT BY : OLSEN, CASSIE PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

LEGEND

- TOPSOIL, FERTILIZER TYPE B, SEEDING MIXTURE NO. 30, & MULCH
- SILT FENCE
- EROSION BALE, BARRIER
- SLOPE INTERCEPT
- INLET PROTECTION
- A D — INLET PROTECTION TYPE
- TEMPORARY DITCH CHECK
- CULVERT PIPE CHECK
- TSB — TEMPORARY SEDIMENT BASIN
- SURFACE WATER FLOW

N

GUY

POST

279+00 'B1'

279+00 'B'

RAMP B (SB OFF-RAMP)

IH 41 SB

278+00 'IH'

CMP

ESS

96234

(?)E

D

A

STRUCTURE B-66-103

346+00

347+00

348+00

349+00

350+00

278+00 'IH'

MATCH LINE 351+00

STH 60

279+00 'A1'

MATCH LINE 345+50

80+00 'A'

279+00 'A'

RAMP A (SB ON-RAMP)

278+00 'A1'

278+00 'A'

277+00 'A'

276+00 'A'

STRUCTURE B-66-102

95981

SIGN

40'

RIP RAP MEDIUM

RIP RAP MEDIUM

CMP

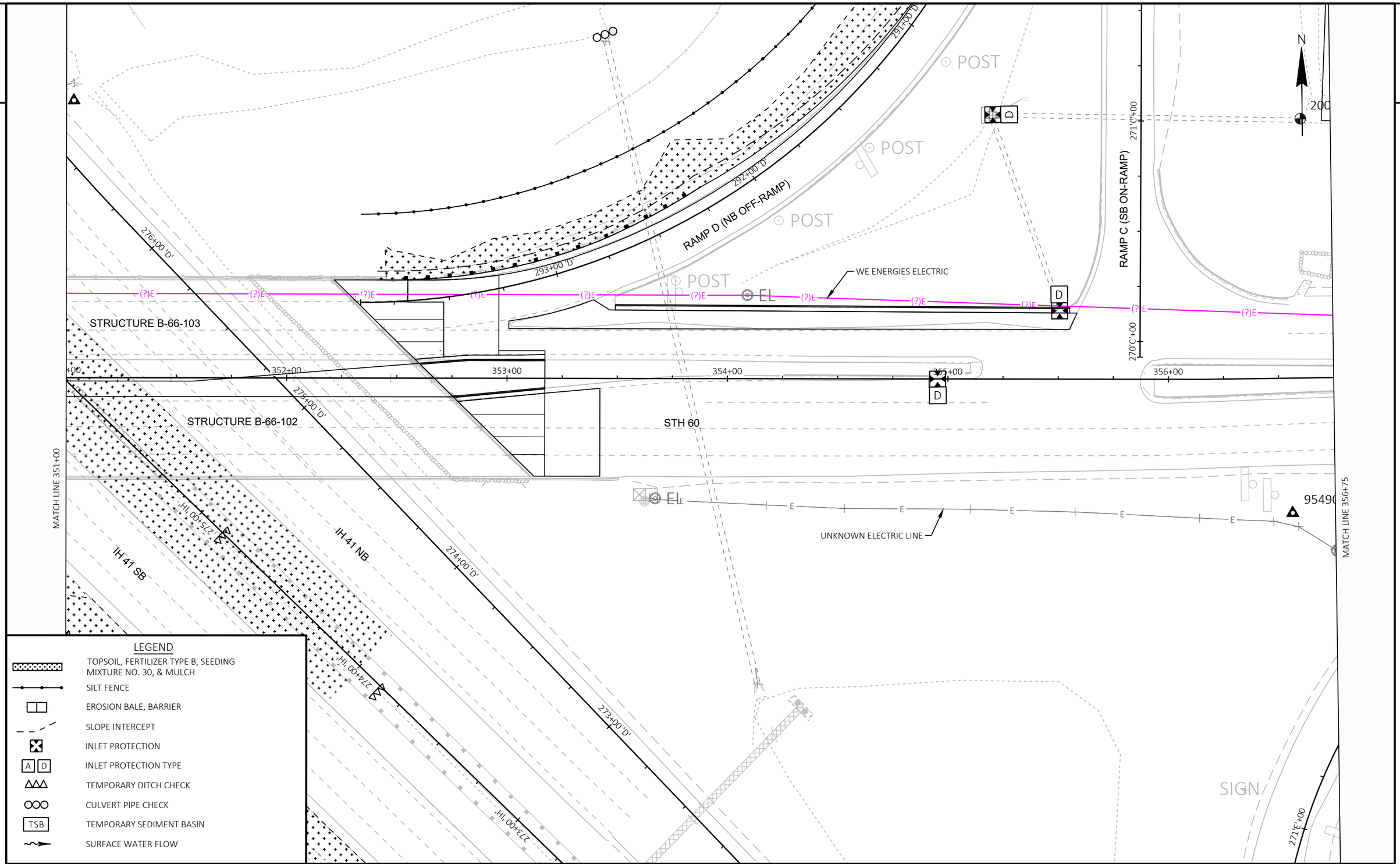
POST

PROJECT NO: 2310-09-71	HWY: STH 60	COUNTY: WASHINGTON	EROSION CONTROL	SHEET 58	E

FILE NAME : K:\195704_STH 60 AND IH 41 INTERSECTION\3.0 DELIVERABLES\3.02 ROADWAY\AUTOCAD\SHEETS\022001-EC.DWG
LAYOUT NAME - 02

PLOT DATE : 10/24/2025 9:59 AM PLOT BY : OLSEN, CASSIE PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42



PROJECT NO: 2310-09-71	HWY: STH 60	COUNTY: WASHINGTON	EROSION CONTROL	SHEET 59	E

FILE NAME : K:\195704_STH 60 AND IH 41 INTERSECTION\3.0 DELIVERABLES\3.02 ROADWAY\AUTOCAD\SHEETS\022001-EC.DWG
LAYOUT NAME - 03

PLOT DATE : 10/30/2025 4:02 PM PLOT BY : OLSEN, CASSIE PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

2

N

EXISTING R/W

POST

MP

MP

MP

POST

(?)G

(?)G

(?)G

(?)G

(?)G

G

G

G

FLINT HILL RESOURCES

(?)FO

WIN TECHNOLOGY

(?)FO

(?)FO

MATCH LINE 356+75

WE ENERGIES ELECTRIC

(?)E

(?)E

(?)E

(?)E

(?)E

(?)E

EL

(?)E

(?)E

(?)E

(?)E

(?)E

D

D

357+00

358+00

359+00

360+00

361+00

362

MATCH LINE 362+00

STH 60

274'E'+00

273'E'+00

RAMP E (NB OFF-RAMP)

EL

272'E'+00

(?)FO

(?)FO

(?)FO

(?)E

(?)E

(?)E

(?)E

(?)E

(?)E

(?)E

WE ENERGIES ELECTRIC

(?)E

(?)E

(?)E

(?)E

(?)E

(?)E

(?)E

UNKNOWN ELECTRIC LINE

EXISTING R/W

MP

LEGEND

TOPSOIL, FERTILIZER TYPE B, SEEDING MIXTURE NO. 30, & MULCH

SILT FENCE

EROSION BALE, BARRIER

SLOPE INTERCEPT

INLET PROTECTION

A D INLET PROTECTION TYPE

TEMPORARY DITCH CHECK

CULVERT PIPE CHECK

TSB TEMPORARY SEDIMENT BASIN

SURFACE WATER FLOW

PROJECT NO: 2310-09-71	HWY: STH 60	COUNTY: WASHINGTON	EROSION CONTROL	SHEET 60	E

FILE NAME : K:\195704_STH 60 AND IH 41 INTERSECTION\3.0 DELIVERABLES\3.02 ROADWAY\AUTOCAD\SHEETS\022001-EC.DWG
LAYOUT NAME - 04

PLOT DATE : 10/24/2025 10:01 AM PLOT BY : OLSEN, CASSIE PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

2

N

EXISTING R/W

UNKNOWN SEWER LINE

IP

GUY

GUY

GUY

POST

MP

MP

MP

MP

SS

OH

G

(?)G

(?)OH

(?)E

FLINT HILL RECOURCES

WE ENERGIES ELECTRIC

EL

D

END PROJECT
STA 367+13.00
Y=148,171.586
X=345,870.218

+00

363+00

364+00

365+00

366+00

367+00

368+00

MATCH LINE 362+00

STH 60

D

POST

IP

POST

WE ENERGIES ELECTRIC

GUY

EXISTING R/W

LEGEND

- TOPSOIL, FERTILIZER TYPE B, SEEDING MIXTURE NO. 30, & MULCH
- SILT FENCE
- EROSION BALE, BARRIER
- SLOPE INTERCEPT
- INLET PROTECTION
- A D — INLET PROTECTION TYPE
- TEMPORARY DITCH CHECK
- CULVERT PIPE CHECK
- TSB — TEMPORARY SEDIMENT BASIN
- SURFACE WATER FLOW

PROJECT NO: 2310-09-71	HWY: STH 60	COUNTY: WASHINGTON	EROSION CONTROL	SHEET 61	E

FILE NAME : K:\195704_STH 60 AND IH 41 INTERSECTION\3.0 DELIVERABLES\3.02 ROADWAY\AUTOCAD\SHEETS\022001-EC.DWG
LAYOUT NAME - 05

PLOT DATE : 10/24/2025 10:02 AM PLOT BY : OLSEN, CASSIE PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

2

N

IH 41 SB

IH 41 NB

RAMP A (SB ON-RAMP)

276+00 'A'

275+00 'A'

274+00 'A'

273+00 'A'

272+00 'A'

271+00 'A'

270+00 'A'

274+00 'D'

273+00 'D'

272+00 'D'

271+00 'D'

270+00 'D'

IP
POST

IP
POST

IP
POST

RIP RAP MEDIUM

EXISTING R/W

SIGN

LEGEND

- TOPSOIL, FERTILIZER TYPE B, SEEDING MIXTURE NO. 30, & MULCH
- SILT FENCE
- EROSION BALE, BARRIER
- SLOPE INTERCEPT
- INLET PROTECTION
- A D — INLET PROTECTION TYPE
- TEMPORARY DITCH CHECK
- CULVERT PIPE CHECK
- TSB — TEMPORARY SEDIMENT BASIN
- SURFACE WATER FLOW

PROJECT NO: 2310-09-71	HWY: STH 60	COUNTY: WASHINGTON	EROSION CONTROL - RAMP A	SHEET 62	E

FILE NAME : K:\195704_STH 60 AND IH 41 INTERSECTION\3.0 DELIVERABLES\3.02 ROADWAY\AUTOCAD\SHEETS\022001-EC.DWG
LAYOUT NAME - 06

PLOT DATE : 10/24/2025 10:04 AM PLOT BY : OLSEN, CASSIE PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

2

N

201

272+00 'A'

271+00 'A'

270+00 'A'

269+00 'A'

268+00 'A'

267+00 'A'

266+00 'A'

270+00 'H'

269+00 'H'

268+00 'H'

267+00 'H'

266+00 'H'

269+E+00

268+E+00

267+E+00

266+E+00

SIGN

SIGN

IH 41 NB

IH 41 SB

RAMP A (SB ON-RAMP)

EXISTING R/W

WE ENERGIES ELECTRIC

PROJECT NO: 2310-09-71	HWY: STH 60	COUNTY: WASHINGTON	EROSION CONTROL - RAMP A	SHEET 63	E

2

N

WE ENERGIES ELECTRIC

WE ENERGIES ELECTRIC

CONSTRUCT CHECK DAM BERM
SEE CONSTRUCTION DETAILS

RIP RAP MEDIUM

RAMP B (SB OFF-RAMP)

IH 41 SB

IH 41 NB

279+00 'B'

280+00 'B1'

280+00 'B'

281+00 'B1'

281+00 'B'

282+00 'B'

283+00 'B'

284+00 'B'

280+00 'IH'

281+00 'IH'

282+00 'IH'

283+00 'IH'

284+00 'IH'

285+00 'IH'

14236

POST

GUY

GMP

LEGEND

- TOPSOIL, FERTILIZER TYPE B, SEEDING MIXTURE NO. 30, & MULCH
- SILT FENCE
- EROSION BALE, BARRIER
- SLOPE INTERCEPT
- INLET PROTECTION
- A D — INLET PROTECTION TYPE
- TEMPORARY DITCH CHECK
- CULVERT PIPE CHECK
- TSB — TEMPORARY SEDIMENT BASIN
- SURFACE WATER FLOW

PROJECT NO: 2310-09-71	HWY: STH 60	COUNTY: WASHINGTON	EROSION CONTROL - RAMP B	SHEET 64	E

FILE NAME : K:\195704_STH 60 AND IH 41 INTERSECTION\3.0 DELIVERABLES\3.02 ROADWAY\AUTOCAD\SHEETS\022001-EC.DWG
LAYOUT NAME - 08
PLOT DATE : 10/24/2025 10:06 AM
PLOT BY : OLSEN, CASSIE
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2

2

N

RAMP D (SB OFF-RAMP)

RAMP C (NB ON-RAMP)

291+00 'D'

291+00 'D'

290+00 'D'

289+00 'D'

288+00 'D'

287+00 'D'

286+00 'D'

277'C'+00

276'C'+00

275'C'+00

274'C'+00

273'C'+00

272'C'+00

271'C'+00

POST

MP

D

WIN TECHNOLOGY

EXISTING R/W

FLINT HILL RESOURCES

LEGEND

- TOPSOIL, FERTILIZER TYPE B, SEEDING MIXTURE NO. 30, & MULCH
- SILT FENCE
- EROSION BALE, BARRIER
- SLOPE INTERCEPT
- INLET PROTECTION
- A D — INLET PROTECTION TYPE
- TEMPORARY DITCH CHECK
- CULVERT PIPE CHECK
- TSB — TEMPORARY SEDIMENT BASIN
- SURFACE WATER FLOW

PROJECT NO: 2310-09-71	HWY: STH 60	COUNTY: WASHINGTON	EROSION CONTROL - RAMPS C AND D	SHEET 65	E

FILE NAME : K:\195704_STH 60 AND IH 41 INTERSECTION\3.0 DELIVERABLES\3.02 ROADWAY\AUTOCAD\SHEETS\022001-EC.DWG
LAYOUT NAME - 09

PLOT DATE : 10/24/2025 10:07 AM PLOT BY : OLSEN, CASSIE PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

STH 60

IH 41 SB

IH 41 NB

RAMP D (NB OFF-RAMP)

WE ENERGIES ELECTRIC

SEE STRUCTURE PLANS FOR
RESTORATION WITHIN SLOPE PAVING

WE ENERGIES ELECTRIC

273+00 'IH'
274+00 'IH'
275+00 'IH'
276+00 'IH'
277+00 'IH'
278+00 'IH'
279+00 'IH'

273+00 'D'
274+00 'D'
275+00 'D'
276+00 'D'
277+00 'D'
278+00 'D'
279+00 'D'

95981

349+00
350+00
351+00
352+00
353+00

SIGN
SIGN POST

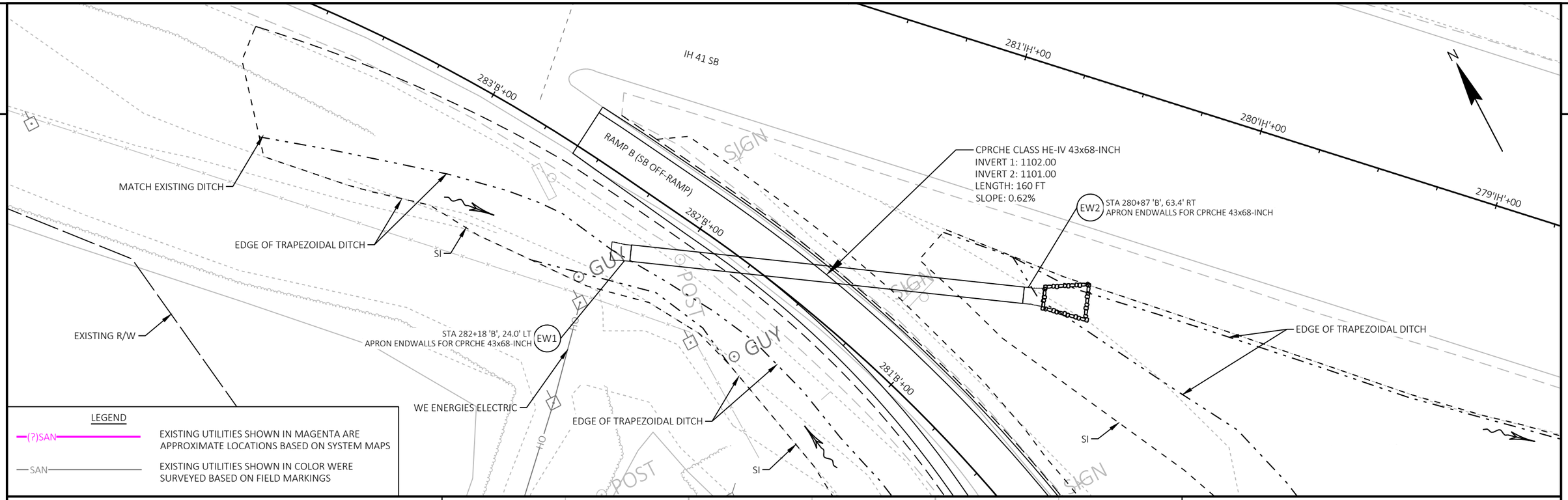
LEGEND

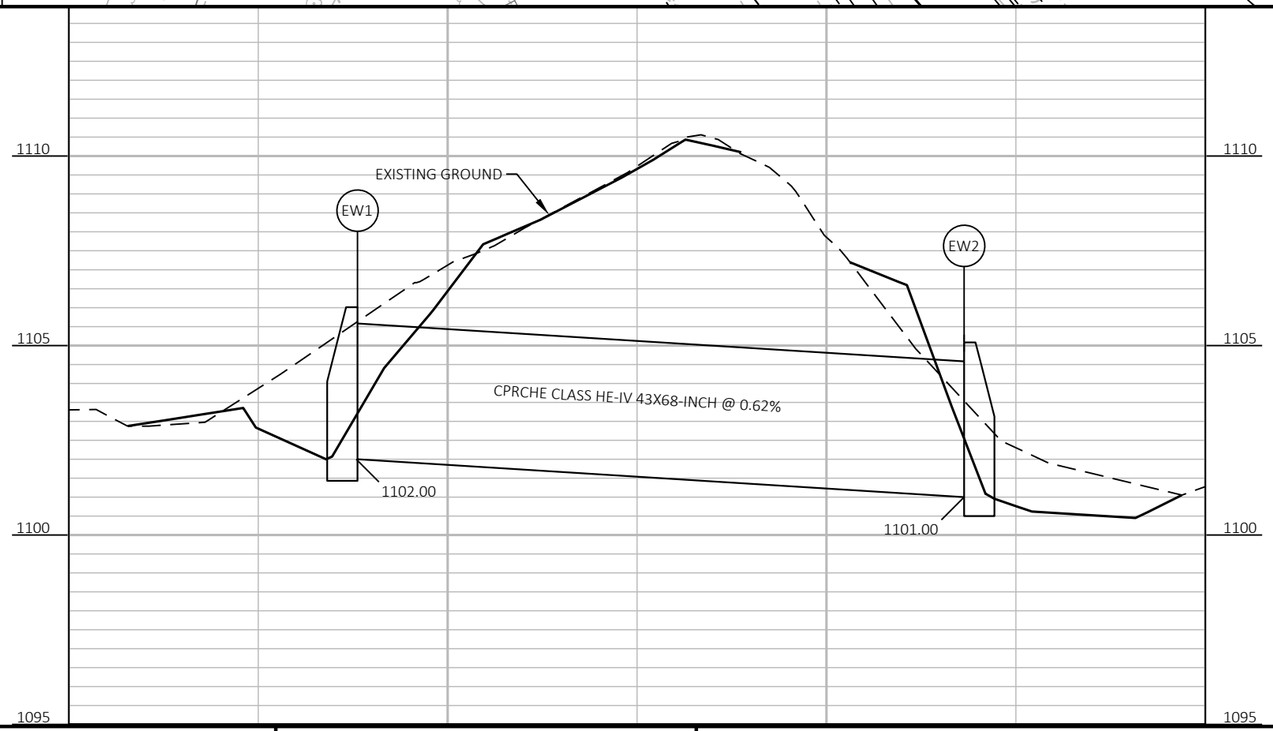
- TOPSOIL, FERTILIZER TYPE B, SEEDING MIXTURE NO. 30, & MULCH
- SILT FENCE
- EROSION BALE, BARRIER
- SLOPE INTERCEPT
- INLET PROTECTION
- A D — INLET PROTECTION TYPE
- TEMPORARY DITCH CHECK
- CULVERT PIPE CHECK
- TSB — TEMPORARY SEDIMENT BASIN
- SURFACE WATER FLOW

PROJECT NO: 2310-09-71	HWY: STH 60	COUNTY: WASHINGTON	EROSION CONTROL - IH 41	SHEET 66	E

FILE NAME : K:\195704_STH 60 AND IH 41 INTERSECTION\3.0 DELIVERABLES\3.02 ROADWAY\AUTOCAD\SHEETS\022001-EC.DWG
LAYOUT NAME - 10
PLOT DATE : 10/24/2025 3:43 PM
PLOT BY : OLSEN, CASSIE
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2





PROJECT NO: 2310-09-71	HWY: STH 60	COUNTY: WASHINGTON	STORM SEWER PLAN	SHEET 67	E

LEGEND

(?)SAN — EXISTING UTILITIES SHOWN IN MAGENTA ARE APPROXIMATE LOCATIONS BASED ON SYSTEM MAPS

SAN — EXISTING UTILITIES SHOWN IN COLOR WERE SURVEYED BASED ON FIELD MARKINGS

SSPRC CLASS III 42-INCH
INVERT 1: 1106.98
INVERT 2: 1102.99
LENGTH: 115 FT
SLOPE: 3.47%

STA 346+11, 101.1' LT
APRON ENDWALLS FOR CPRC 42-INCH
EW3

GRADING AROUND PIPE
SEE "STORM SEWER
GRADING DETAILS"

SSPRC CLASS II 42-INCH
INVERT 1: 1102.99
INVERT 2: 1101.29
LENGTH: 51 FT
SLOPE: -3.34%

STA 347+26, 103.0' LT
MANHOLES 6-J
MH1

SSPRC CLASS II 42-INCH
INVERT 1: 1101.29
INVERT 2: 1100.00
LENGTH: 101 FT
SLOPE: 1.28%

MAINTAIN DRAINAGE
TO EXISTING ENDWALL

SSPRC CLASS II 48-INCH
INVERT 1: 1099.50
INVERT 2: 1099.00
LENGTH: 39 FT
SLOPE: 1.28%

STA 347+76, 91.6' LT
MANHOLES 6-J
MH2

CLEAN STORM SEWER
CONNECT EXISTING PIPE
TO MANHOLE

STA 348+75, 71.1' LT
MANHOLES 7-J
MH3

STA 349+13, 63.4' LT
MANHOLES 7-J
MH4

SSP CLASS III-A 12-INCH
INVERT 1: 1118.40
INVERT 2: 1108.00
LENGTH: 27 FT
SLOPE: 38.52%

STA 348+71, 44.4' LT
INLETS 2x2.5-V
INL1

PROPOSED PIPE UNDERDRAIN
4-INCH, WRAPPED

ADJUSTING INLET
CONNECT UNDERDRAIN
TO EXISTING INLET

RAMP B (SB OFF-RAMP)
279B+00

IH 41 SB
IH 41 NB
278'IH'+00
277'IH'+00
276'IH'+00

WE ENERGIES ELECTRIC
STH 60 WB

346+00
347+00
348+00
349+00
350+00
351+00

1115
1110
1105
1100
1097
1120

FINISHED GROUND
EXISTING GROUND

1111.34
1108.66
1106.98
1102.99
1102.99
1102.99
1101.29
1101.29
1110.76
1108.00
1100.00
1099.50
1099.00
1099.00
1105.12
1122.84
1118.40
1110.76
1108.00

SSPRC CLASS III 42-INCH @ 3.47%
SSPRC CLASS II 42-INCH @ 3.34%
SSPRC CLASS II 42-INCH @ 1.28%
SSPRC CLASS II 48-INCH @ 1.28%
SSP CLASS III-A 12-INCH @ 38.52%

PROJECT NO: 2310-09-71	HWY: STH 60	COUNTY: WASHINGTON	STORM SEWER PLAN	SHEET 68	E

LEGEND

(?)SAN — EXISTING UTILITIES SHOWN IN MAGENTA ARE APPROXIMATE LOCATIONS BASED ON SYSTEM MAPS

SAN — EXISTING UTILITIES SHOWN IN COLOR WERE SURVEYED BASED ON FIELD MARKINGS

277'IH'+00

WE ENERGIES ELECTRIC

276'IH'+00

275'IH'+00

274'

IH 41 SB

MH4 STA 349+13, 63.4' LT
MANHOLES 7-J

350+00

EW4 STA 350+80, 103.9' RT
APRON ENDWALLS FOR CPRC 48-INCH

SSPRC CLASS IV 48-INCH
INVERT 1: 1099.00
INVERT 2: 1096.00
LENGTH: 236 FT
SLOPE: 1.27%

EDGE OF TRAPEZOIDAL DITCH

SI

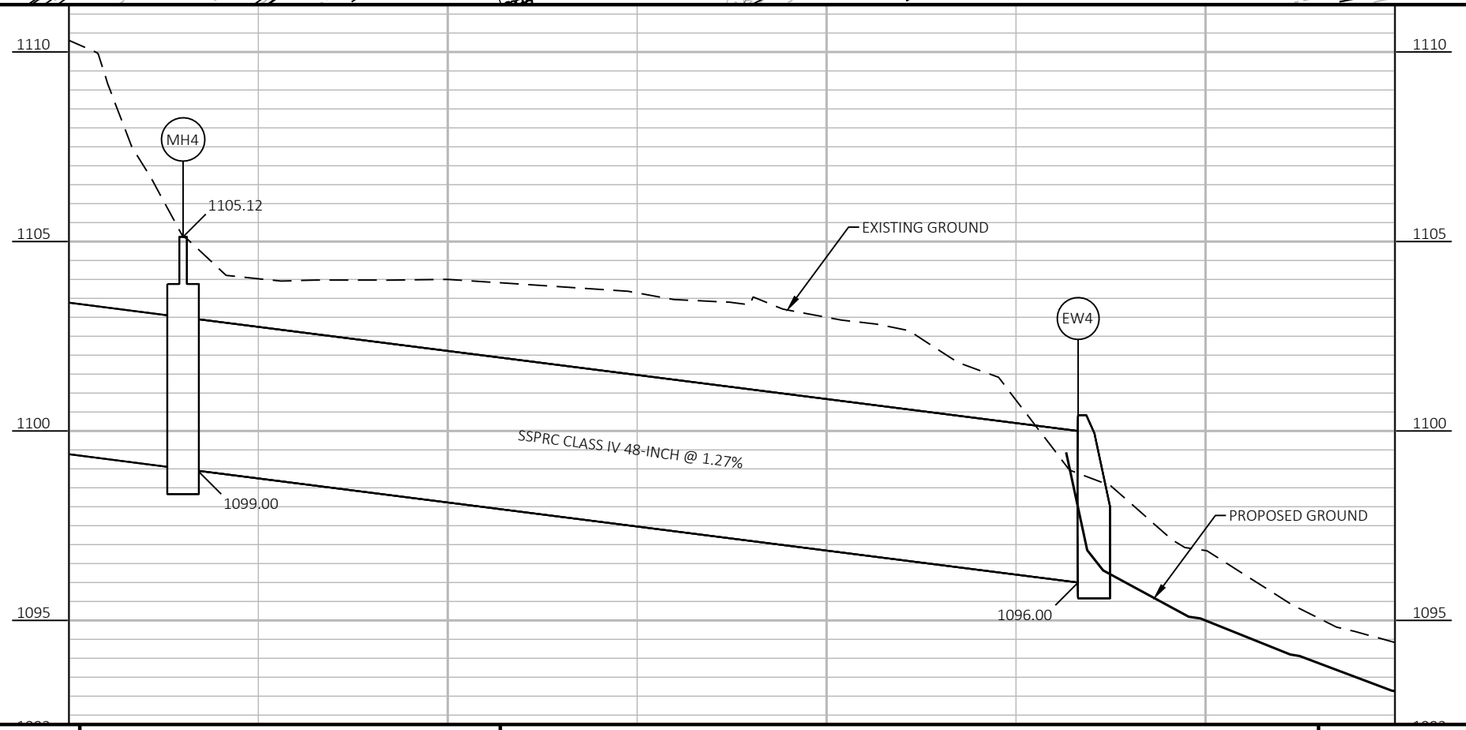
349+00

STH 60 WB

STH 60 EB

SIGN

348+00



PROJECT NO: 2310-09-71	HWY: STH 60	COUNTY: WASHINGTON	STORM SEWER PLAN	SHEET 69	E

FILE NAME : K:\195704_STH 60 AND IH 41 INTERSECTION\3.0 DELIVERABLES\3.02 ROADWAY\AUTOCAD\SHEETS\022501-SS.DWG
LAYOUT NAME - 02A

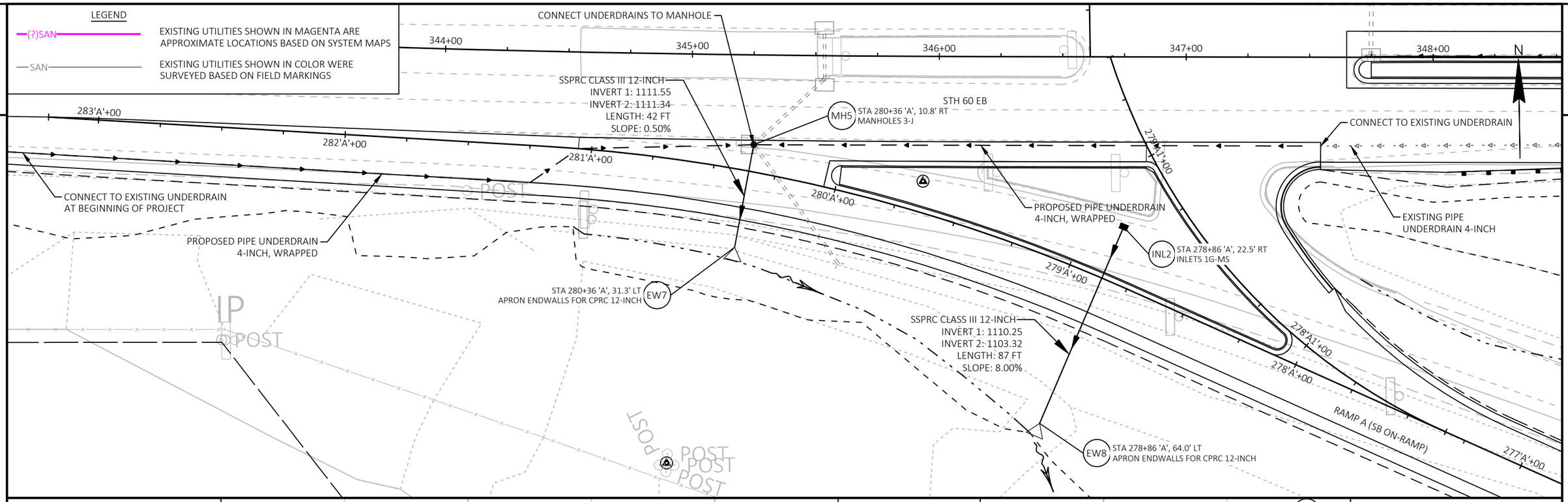
PLOT DATE : 10/24/2025 3:46 PM PLOT BY : OLSEN, CASSIE PLOT NAME : PLOT SCALE : 1 IN:40 FT

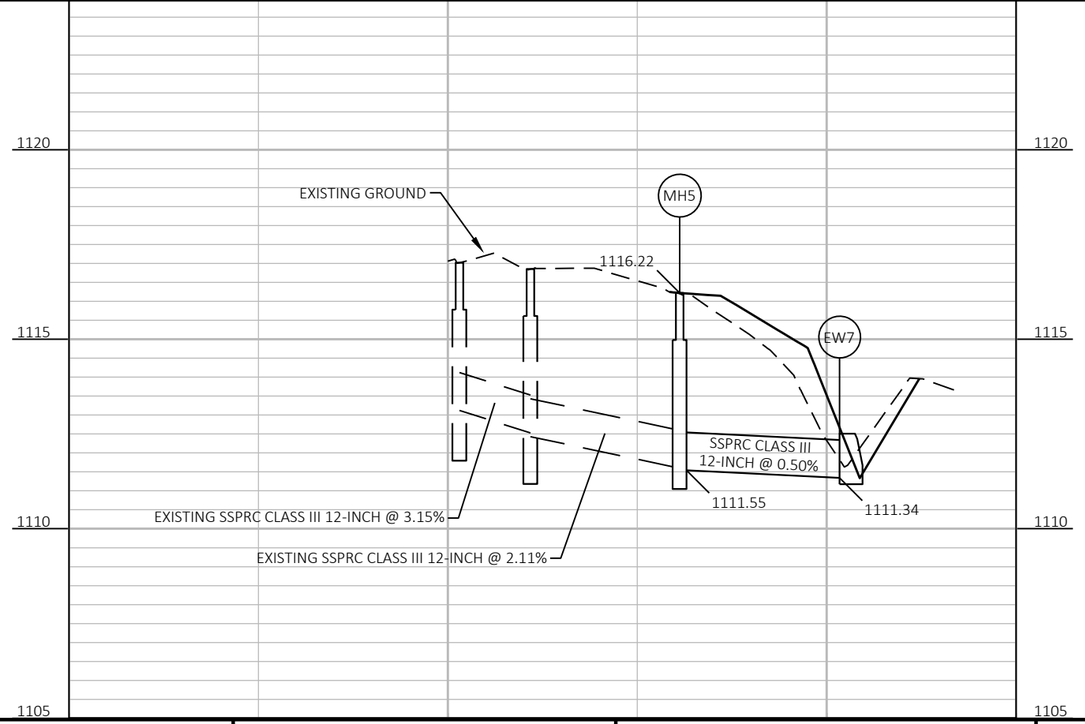
2

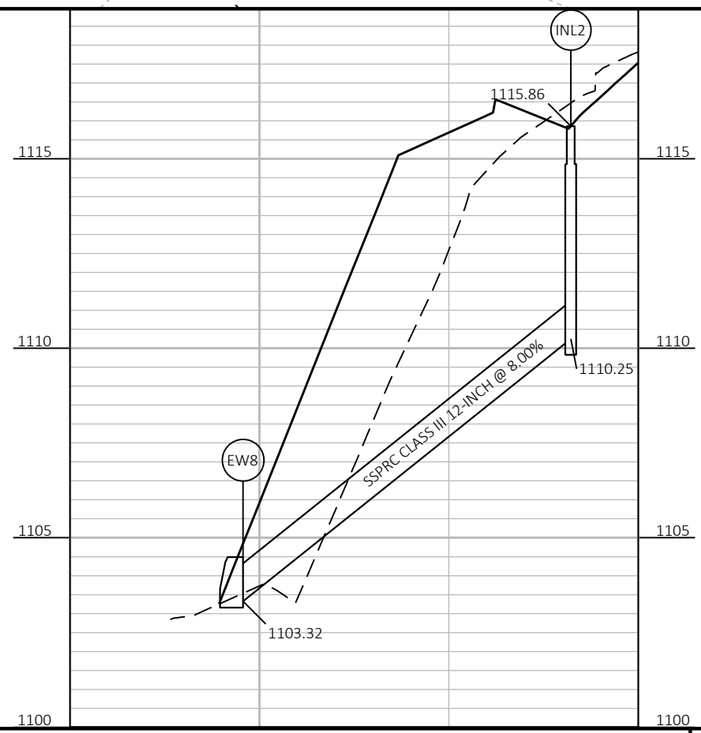
LEGEND

(?)SAN — EXISTING UTILITIES SHOWN IN MAGENTA ARE APPROXIMATE LOCATIONS BASED ON SYSTEM MAPS

SAN — EXISTING UTILITIES SHOWN IN COLOR WERE SURVEYED BASED ON FIELD MARKINGS







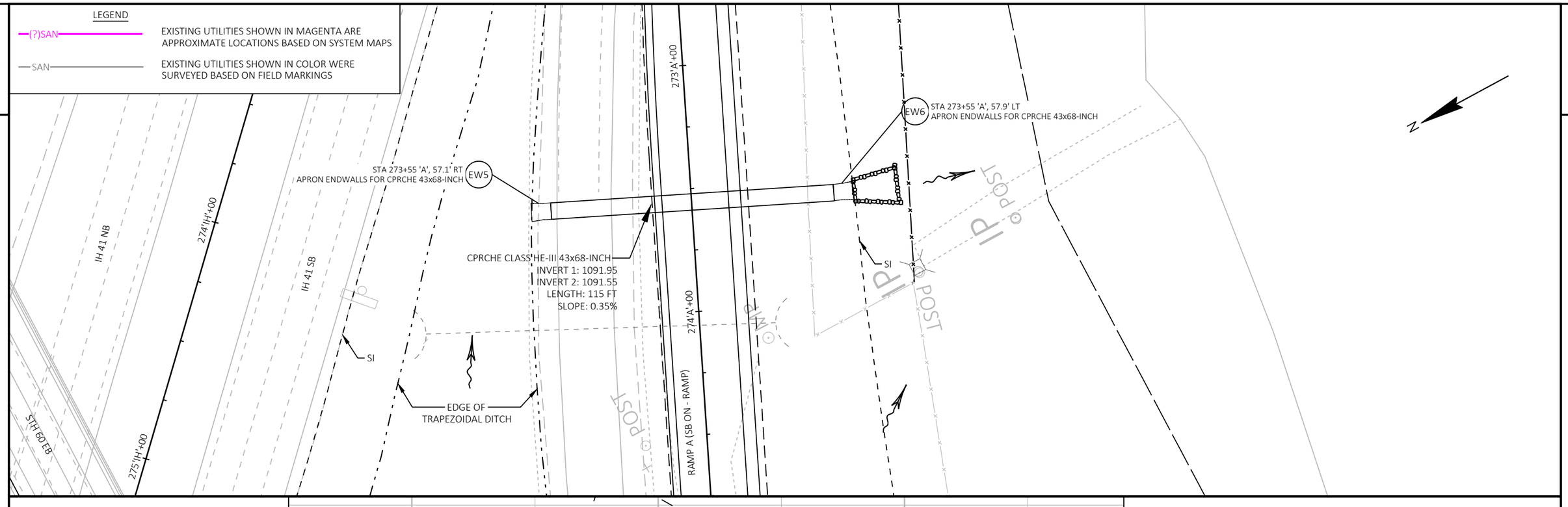
PROJECT NO: 2310-09-71	HWY: STH 60	COUNTY: WASHINGTON	STORM SEWER PLAN	SHEET 70	E

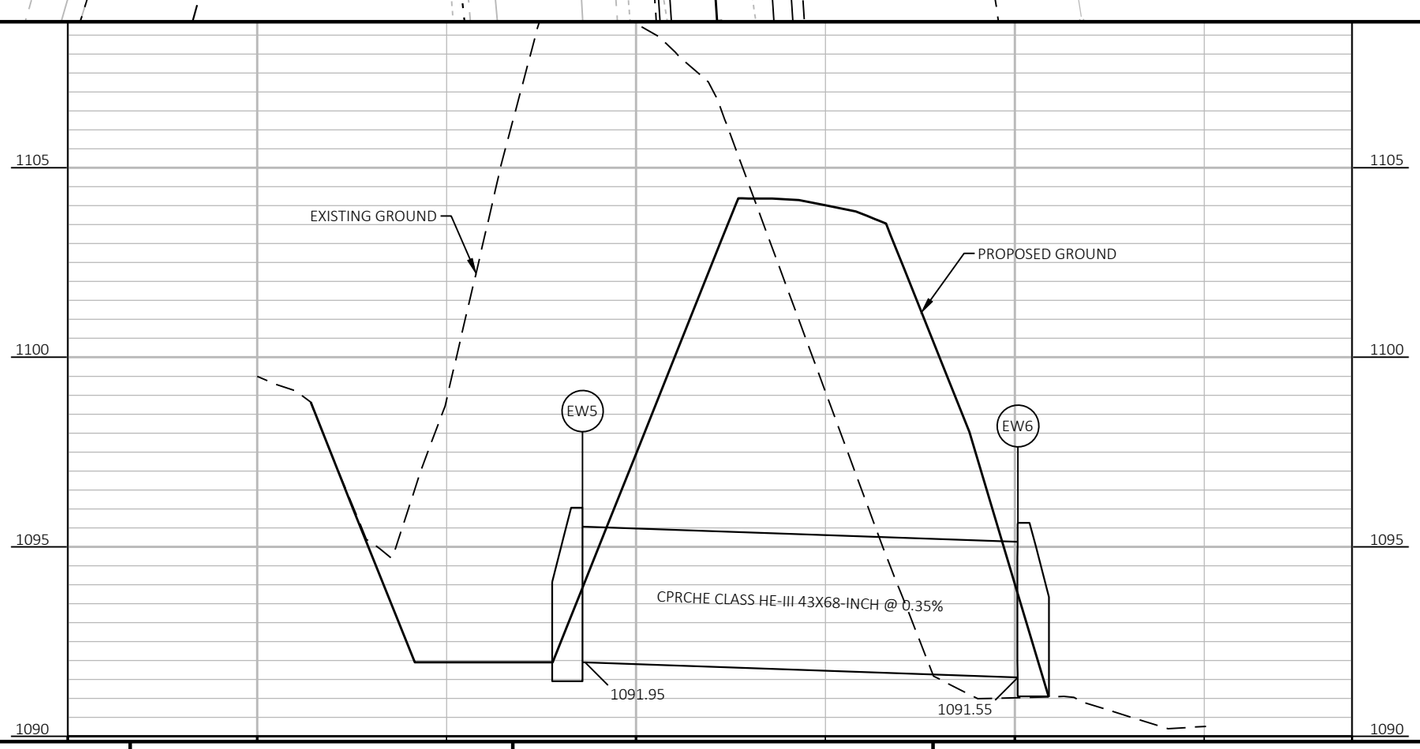
FILE NAME : K:\195704_STH 60 AND IH 41 INTERSECTION\3.0 DELIVERABLES\3.02 ROADWAY\AUTOCAD\SHEETS\022501-SS.DWG
LAYOUT NAME - 03
PLOT DATE : 10/23/2025 2:28 PM
PLOT BY : OLSEN, CASSIE
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 44

LEGEND

(?)SAN — EXISTING UTILITIES SHOWN IN MAGENTA ARE APPROXIMATE LOCATIONS BASED ON SYSTEM MAPS

SAN — EXISTING UTILITIES SHOWN IN COLOR WERE SURVEYED BASED ON FIELD MARKINGS





PROJECT NO: 2310-09-71	HWY: STH 60	COUNTY: WASHINGTON	STORM SEWER PLAN	SHEET 71	E

LEGEND

(?)SAN — EXISTING UTILITIES SHOWN IN MAGENTA ARE APPROXIMATE LOCATIONS BASED ON SYSTEM MAPS

SAN — EXISTING UTILITIES SHOWN IN COLOR WERE SURVEYED BASED ON FIELD MARKINGS

N

IH 41 SB

RAMP B (SB OFF-RAMP)

27978+00

STA 347+55, -129.47' LT
EL 1098.92

STA 347+75, -129.07' LT
EL 1098.93

STA 348+00, -123.61' LT
EL 1098.87

STA 347+30.28, -111.59' LT
EL 1105.56

STA 347+25, -107.75' LT
EL 1107.13

STA 348+69.58, -104.61' LT
EL 1098.58

STA 348+25, -117.18' LT
EL 1098.82

STA 348+50, -103.68' LT
EL 1098.82

STA 347+15, -89.62' LT
EL 1111.73

STA 347+50, -97.55' LT
EL 1109.65

STA 347+75, -91.80' LT
EL 1111.35

STA 348+00, -86.59' LT
EL 1111.21

STA 348+25, -81.42' LT
EL 1110.74

STA 348+52.49, -75.73' LT
EL 1110.63

MATCH EXISTING SLOPE

STA 347+15, -58.13' LT
EL 1118.03

STA 347+50, -50.50' LT
EL 1119.06

SLOPE INTERCEPT

STA 348+00, -50.50' LT
EL 1120.23

STA 348+25, -50.50' LT
EL 1121.04

STA 348+52.50, -50.50' LT
EL 1121.41

MATCH EXISTING SLOPE

33.2%
33.3%
33.3%
33.3%
42.1%
20.0%
20.0%
25.0%
33.3%

MP
SS

(?)E

EL

R/L RAMP 'B'

D

STH 60 WB

R/L STH 60

348+00

349+00

STH 60 EB

GRADE 5:1 TO C/L OF PIPE,
THEN 3:1 THEREAFTER

5.0:1

3.0:1

SECTION D-D

PROJECT NO: 2310-09-71	HWY: STH 60	COUNTY: WASHINGTON	STORM SEWER GRADING DETAILS	SHEET 72	E

FILE NAME : K:\195704_STH 60 AND IH 41 INTERSECTION\3.0 DELIVERABLES\3.02 ROADWAY\AUTOCAD\SHEETS\022601-GRADING.DWG
LAYOUT NAME - 02

PLOT DATE : 10/24/2025 4:53 PM PLOT BY : OLSEN, CASSIE PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 42

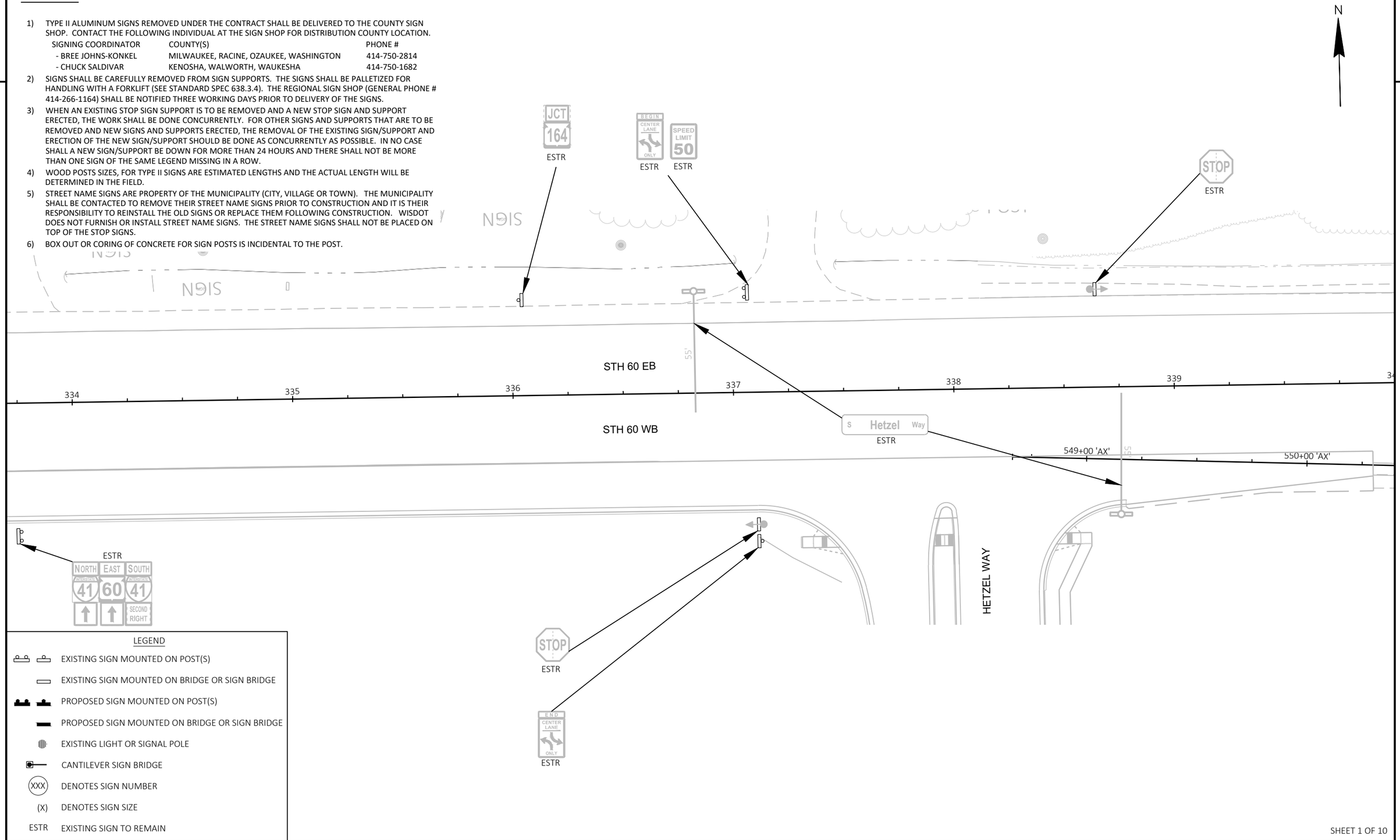
2

SIGNING NOTES

1) TYPE II ALUMINUM SIGNS REMOVED UNDER THE CONTRACT SHALL BE DELIVERED TO THE COUNTY SIGN SHOP. CONTACT THE FOLLOWING INDIVIDUAL AT THE SIGN SHOP FOR DISTRIBUTION COUNTY LOCATION.

SIGNING COORDINATOR	COUNTY(S)	PHONE #
- BREE JOHNS-KONKEL	MILWAUKEE, RACINE, OZAUKEE, WASHINGTON	414-750-2814
- CHUCK SALDIVAR	KENOSHA, WALWORTH, WAUKESHA	414-750-1682

2) SIGNS SHALL BE CAREFULLY REMOVED FROM SIGN SUPPORTS. THE SIGNS SHALL BE PALLETIZED FOR HANDLING WITH A FORKLIFT (SEE STANDARD SPEC 638.3.4). THE REGIONAL SIGN SHOP (GENERAL PHONE # 414-266-1164) SHALL BE NOTIFIED THREE WORKING DAYS PRIOR TO DELIVERY OF THE SIGNS.
3) WHEN AN EXISTING STOP SIGN SUPPORT IS TO BE REMOVED AND A NEW STOP SIGN AND SUPPORT ERECTED, THE WORK SHALL BE DONE CONCURRENTLY. FOR OTHER SIGNS AND SUPPORTS THAT ARE TO BE REMOVED AND NEW SIGNS AND SUPPORTS ERECTED, THE REMOVAL OF THE EXISTING SIGN/SUPPORT AND ERECTION OF THE NEW SIGN/SUPPORT SHOULD BE DONE AS CONCURRENTLY AS POSSIBLE. IN NO CASE SHALL A NEW SIGN/SUPPORT BE DOWN FOR MORE THAN 24 HOURS AND THERE SHALL NOT BE MORE THAN ONE SIGN OF THE SAME LEGEND MISSING IN A ROW.
4) WOOD POSTS SIZES, FOR TYPE II SIGNS ARE ESTIMATED LENGTHS AND THE ACTUAL LENGTH WILL BE DETERMINED IN THE FIELD.
5) STREET NAME SIGNS ARE PROPERTY OF THE MUNICIPALITY (CITY, VILLAGE OR TOWN). THE MUNICIPALITY SHALL BE CONTACTED TO REMOVE THEIR STREET NAME SIGNS PRIOR TO CONSTRUCTION AND IT IS THEIR RESPONSIBILITY TO REINSTALL THE OLD SIGNS OR REPLACE THEM FOLLOWING CONSTRUCTION. WISDOT DOES NOT FURNISH OR INSTALL STREET NAME SIGNS. THE STREET NAME SIGNS SHALL NOT BE PLACED ON TOP OF THE STOP SIGNS.
6) BOX OUT OR CORING OF CONCRETE FOR SIGN POSTS IS INCIDENTAL TO THE POST.



LEGEND

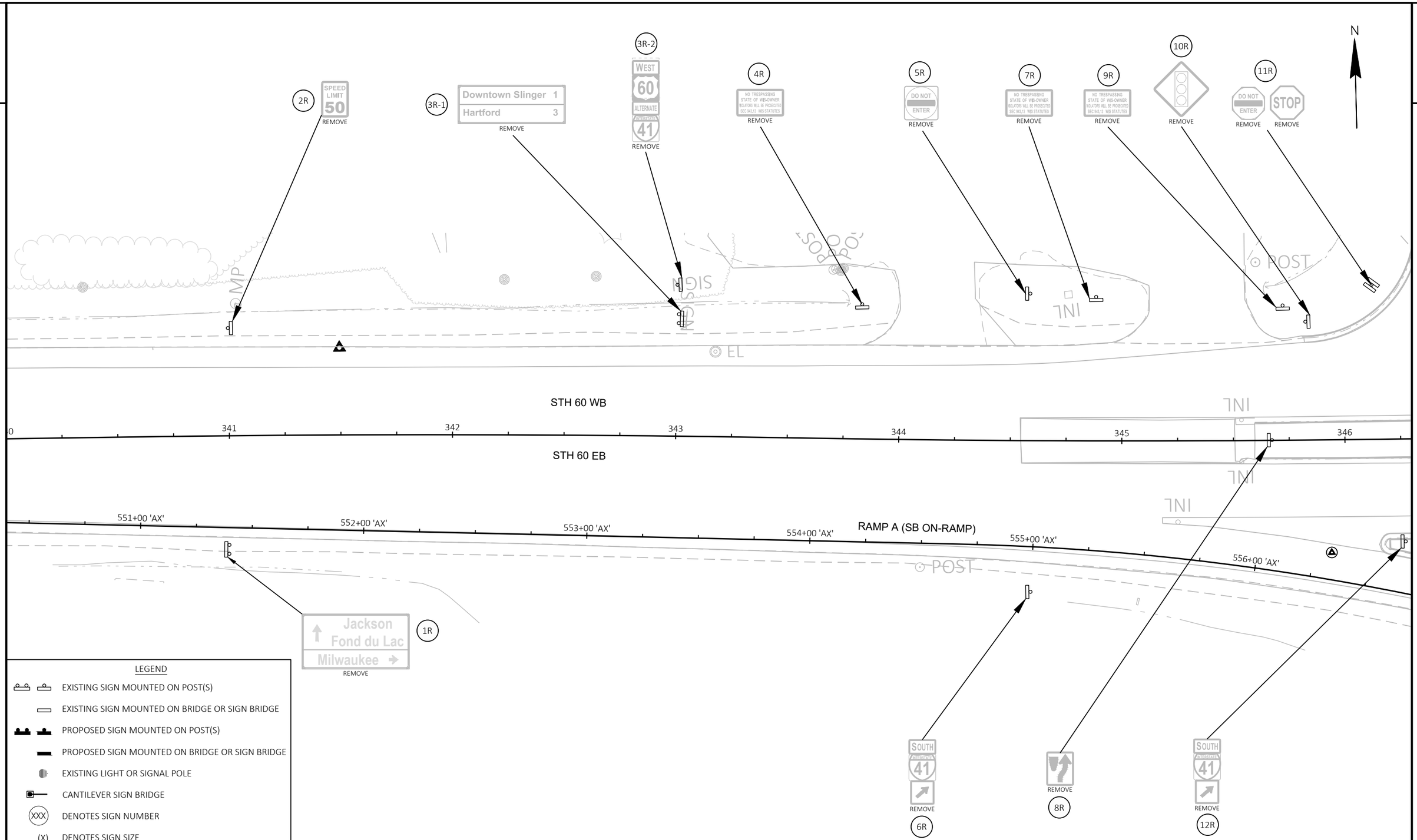
- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- EXISTING LIGHT OR SIGNAL POLE
- CANTILEVER SIGN BRIDGE
- XXX DENOTES SIGN NUMBER
- (X) DENOTES SIGN SIZE
- ESTR EXISTING SIGN TO REMAIN

SHEET 1 OF 10

PROJECT NO: 2310-09-71	HWY: STH 60	COUNTY: WASHINGTON	SIGNING REMOVAL	SHEET 73	E

FILE NAME : K:\195704_STH 60 AND IH 41 INTERSECTION\3.0 DELIVERABLES\3.02 ROADWAY\AUTOCAD\SHEETS\023202-PS-RM.DWG
LAYOUT NAME - 1
PLOT DATE : 7/28/2025 1:03 PM
PLOT BY : OLSEN, CASSIE
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2



LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- EXISTING LIGHT OR SIGNAL POLE
- CANTILEVER SIGN BRIDGE
- XXX DENOTES SIGN NUMBER
- (X) DENOTES SIGN SIZE
- ESTR EXISTING SIGN TO REMAIN

SHEET 2 OF 10

PROJECT NO: 2310-09-71	HWY: STH 60	COUNTY: WASHINGTON	SIGNING REMOVAL	SHEET 74	E

2

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- EXISTING LIGHT OR SIGNAL POLE
- CANTILEVER SIGN BRIDGE
- (XXX) DENOTES SIGN NUMBER
- (X) DENOTES SIGN SIZE
- ESTR EXISTING SIGN TO REMAIN

N

13R EAST 60 WEST 60 DO NOT ENTER WRONG WAY — REMOVE

14R STOP DIVIDED HIGHWAY ONE WAY — REMOVE

19R STOP DIVIDED HIGHWAY — REMOVE

20R DO NOT ENTER WRONG WAY — REMOVE

22R DO NOT ENTER — REMOVE; NEW TRAFFIC PATTERN AHEAD — REMOVE

24R NORTH INTERSTATE 41 — REMOVE; Milwaukee — REMOVE

RAMP B (SB OFF-RAMP)

279+00 'B'

STH 60 WB

STH 60 EB

347 348 349 350 351 352

276+00 'H'

277+00 'H'

275+00 'D'

275+00 'H'

IH 41 SB

IH 41 NB

15R REMOVE REMOVE

17R YIELD — REMOVE

557+00 'AX'

RAMP A (SB ON-RAMP)

558+00 'AX'

16R ONE WAY — REMOVE

18R ONE WAY — REMOVE

21R REMOVE; SOUTH INTERSTATE 41 — REMOVE

23R Fond du Lac — REMOVE

25R REMOVE

SHEET 3 OF 10

PROJECT NO: 2310-09-71	HWY: STH 60	COUNTY: WASHINGTON	SIGNING REMOVAL	SHEET 75	E

FILE NAME : K:\195704_STH 60 AND IH 41 INTERSECTION\3.0 DELIVERABLES\3.02 ROADWAY\AUTOCAD\SHEETS\023202-PS-RM.DWG
LAYOUT NAME - 02

PLOT DATE : 7/18/2025 2:15 PM PLOT BY : OLSEN, CASSIE PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

N

27R
REMOVE

30R
DO NOT ENTER
REMOVE
NORTH
CUSTOM
41
REMOVE

RAMP D (NB OFF-RAMP)
293+00 'D'

POST
POST
EL
INL

RAMP C (NB ON-RAMP)
270+00 'C'

STH 60 WB

353 354 355 356 357 358

INL

STH 60 EB

EL E E E E E

274+00 'F'
RAMP E (NB OFF-RAMP)
273+00 'E'

SOUTH CUSTOM 41
REMOVE
26R

NORTH CUSTOM 41
REMOVE
28R

REMOVE
29R

REMOVE
31R-1

WRONG WAY
REMOVE
31R-2

REMOVE
32R

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- EXISTING LIGHT OR SIGNAL POLE
- CANTILEVER SIGN BRIDGE
- (XXX) DENOTES SIGN NUMBER
- (X) DENOTES SIGN SIZE
- ESTR EXISTING SIGN TO REMAIN

SHEET 4 OF 10

PROJECT NO: 2310-09-71	HWY: STH 60	COUNTY: WASHINGTON	SIGNING REMOVAL	SHEET 76	E

FILE NAME : K:\195704_STH 60 AND IH 41 INTERSECTION\3.0 DELIVERABLES\3.02 ROADWAY\AUTOCAD\SHEETS\023202-PS-RM.DWG
LAYOUT NAME - 03
PLOT DATE : 7/18/2025 2:16 PM
PLOT BY : OLSEN, CASSIE
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2

33R
WRONG WAY
REMOVE

35R
Fond du Lac
REMOVE

37R-1
TO WEST SOUTH
60
41
ONLY
REMOVE

37R-2
NORTH
41
ONLY
REMOVE

N

S-66-231
TO REMAIN

STH 60 WB

359 360 361 362 363 364 365

STH 60 EB

34R
DO NOT ENTER
REMOVE

36R
EAST
60
REMOVE

38R
Jackson 3
Grafton 14
REMOVE

39R
JCT
COUNTY
C
REMOVE

40R
15
MPH
REMOVE

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- EXISTING LIGHT OR SIGNAL POLE
- CANTILEVER SIGN BRIDGE
- XXX DENOTES SIGN NUMBER
- (X) DENOTES SIGN SIZE
- ESTR EXISTING SIGN TO REMAIN

SHEET 5 OF 10

PROJECT NO: 2310-09-71	HWY: STH 60	COUNTY: WASHINGTON	SIGNING REMOVAL	SHEET 77	E

FILE NAME : K:\195704_STH 60 AND IH 41 INTERSECTION\3.0 DELIVERABLES\3.02 ROADWAY\AUTOCAD\SHEETS\023202-PS-RM.DWG
LAYOUT NAME - 04

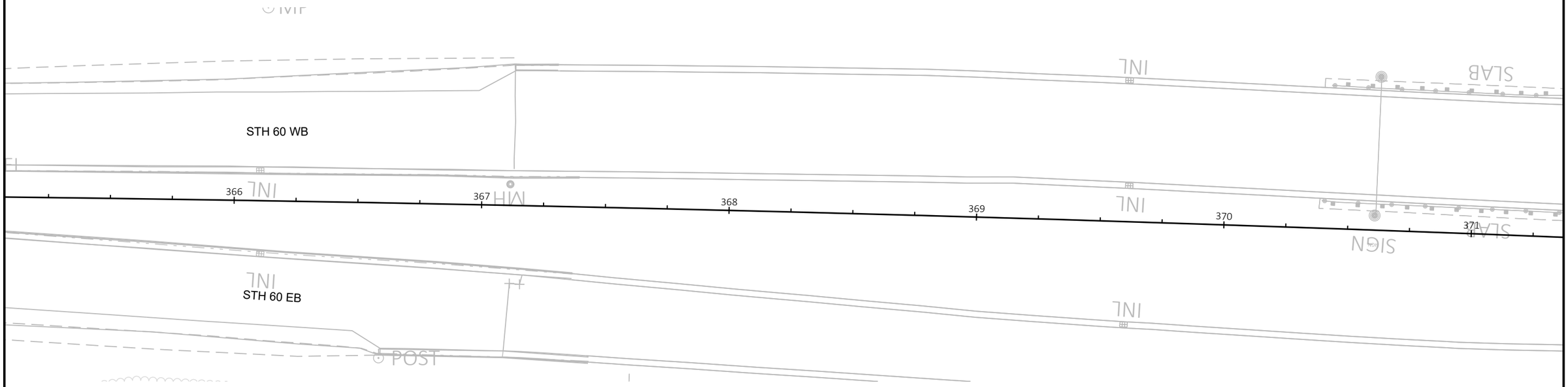
PLOT DATE : 7/18/2025 2:17 PM PLOT BY : OLSEN, CASSIE PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

2

NO SIGNS THIS SHEET



LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- EXISTING LIGHT OR SIGNAL POLE
- CANTILEVER SIGN BRIDGE
- XXX — DENOTES SIGN NUMBER
- (X) — DENOTES SIGN SIZE
- ESTR — EXISTING SIGN TO REMAIN

2

N

STH 60 WB

STH 60 EB

344

346

348

554+00 'AX'

556+00 'AX'

558+00 'AX'

560+00 'AX'

562+00 'AX'

564+00 'AX'

566+00 'AX'

568+00 'AX'

RAMP A (SB ON-RAMP)

IH 41 SB

IH 41 NB

272+00 'IH'

270+00 'IH'

268+00 'IH'

PEDESTRIANS
BICYCLES
NON MOTORIZED TRAFFIC
MOTOR BICYCLES
PROHIBITED

REMOVE

41R

RIDESHARE
INFO CALL
1 - 800 - 455 - POOL

REMOVE

42R

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- EXISTING LIGHT OR SIGNAL POLE
- CANTILEVER SIGN BRIDGE
- XXX — DENOTES SIGN NUMBER
- (X) — DENOTES SIGN SIZE
- ESTR — EXISTING SIGN TO REMAIN

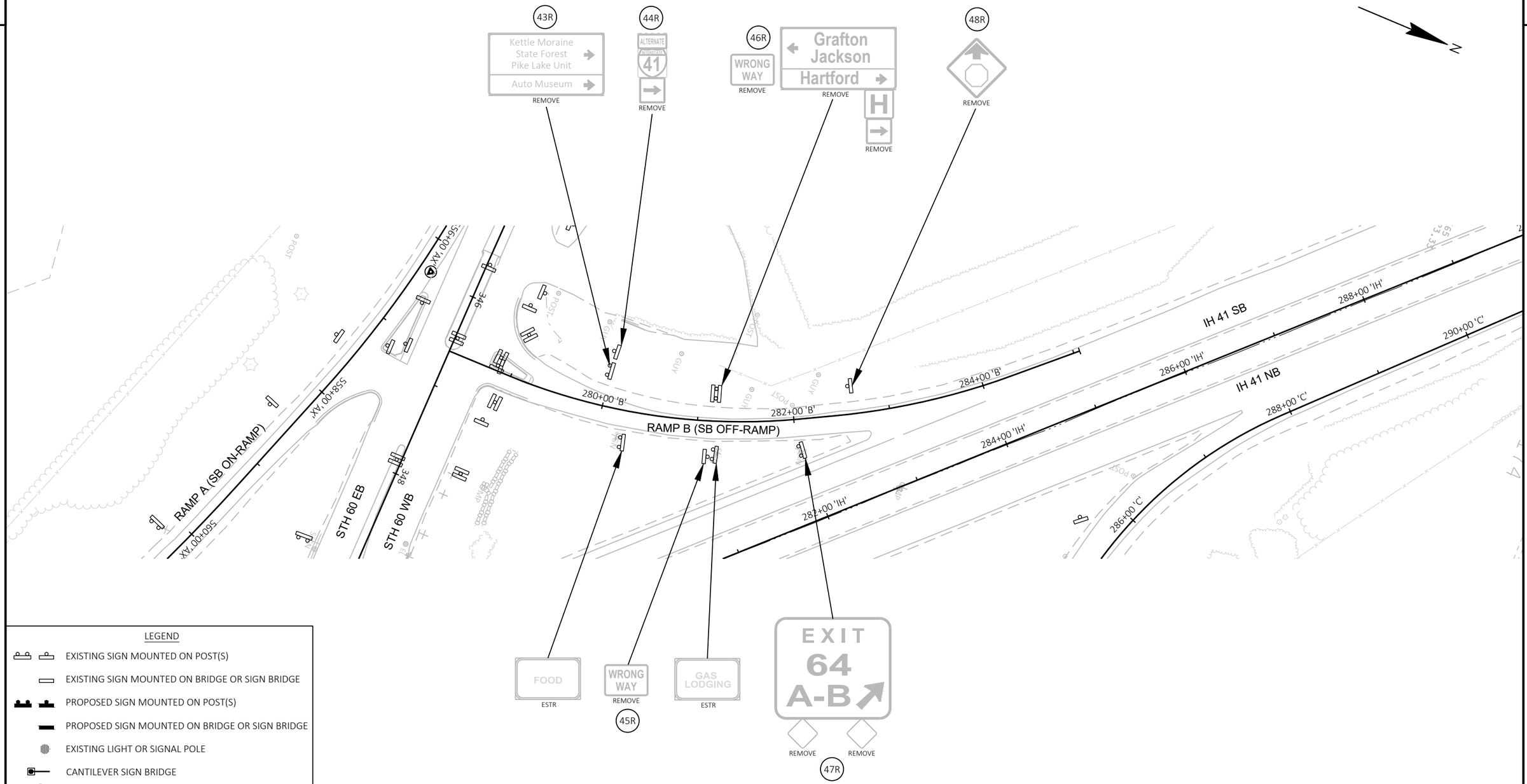
SHEET 7 OF 10

PROJECT NO: 2310-09-71	HWY: STH 60	COUNTY: WASHINGTON	SIGNING REMOVAL - RAMP A	SHEET 79	E

FILE NAME : K:\195704_STH 60 AND IH 41 INTERSECTION\3.0 DELIVERABLES\3.02 ROADWAY\AUTOCAD\SHEETS\023201-PS-RM.DWG
LAYOUT NAME - 06

PLOT DATE : 7/18/2025 2:20 PM PLOT BY : OLSEN, CASSIE PLOT NAME : PLOT SCALE : 1 IN:100 FT

2



LEGEND

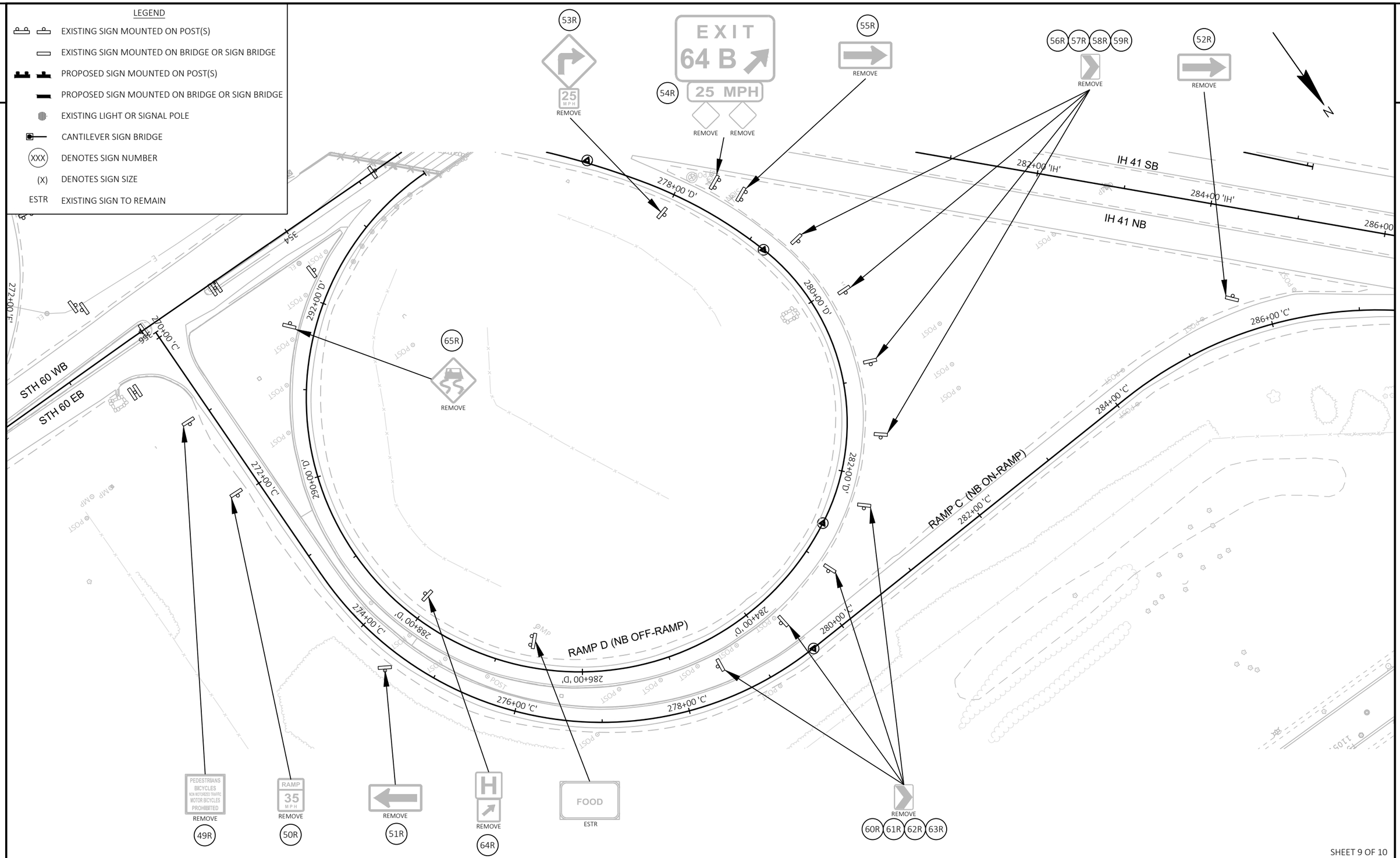
- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- EXISTING LIGHT OR SIGNAL POLE
- CANTILEVER SIGN BRIDGE
- (XXX) DENOTES SIGN NUMBER
- (X) DENOTES SIGN SIZE
- ESTR EXISTING SIGN TO REMAIN

PROJECT NO: 2310-09-71	HWY: STH 60	COUNTY: WASHINGTON	SIGNING REMOVAL - RAMP B	SHEET 80	E

FILE NAME : K:\195704_STH 60 AND IH 41 INTERSECTION\3.0 DELIVERABLES\3.02 ROADWAY\AUTOCAD\SHEETS\023201-PS-RM.DWG
LAYOUT NAME - 07
PLOT DATE : 7/18/2025 2:21 PM
PLOT BY : OLSEN, CASSIE
PLOT NAME :
PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 42

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- EXISTING LIGHT OR SIGNAL POLE
- CANTILEVER SIGN BRIDGE
- (XXX) DENOTES SIGN NUMBER
- (X) DENOTES SIGN SIZE
- ESTR EXISTING SIGN TO REMAIN



SHEET 9 OF 10

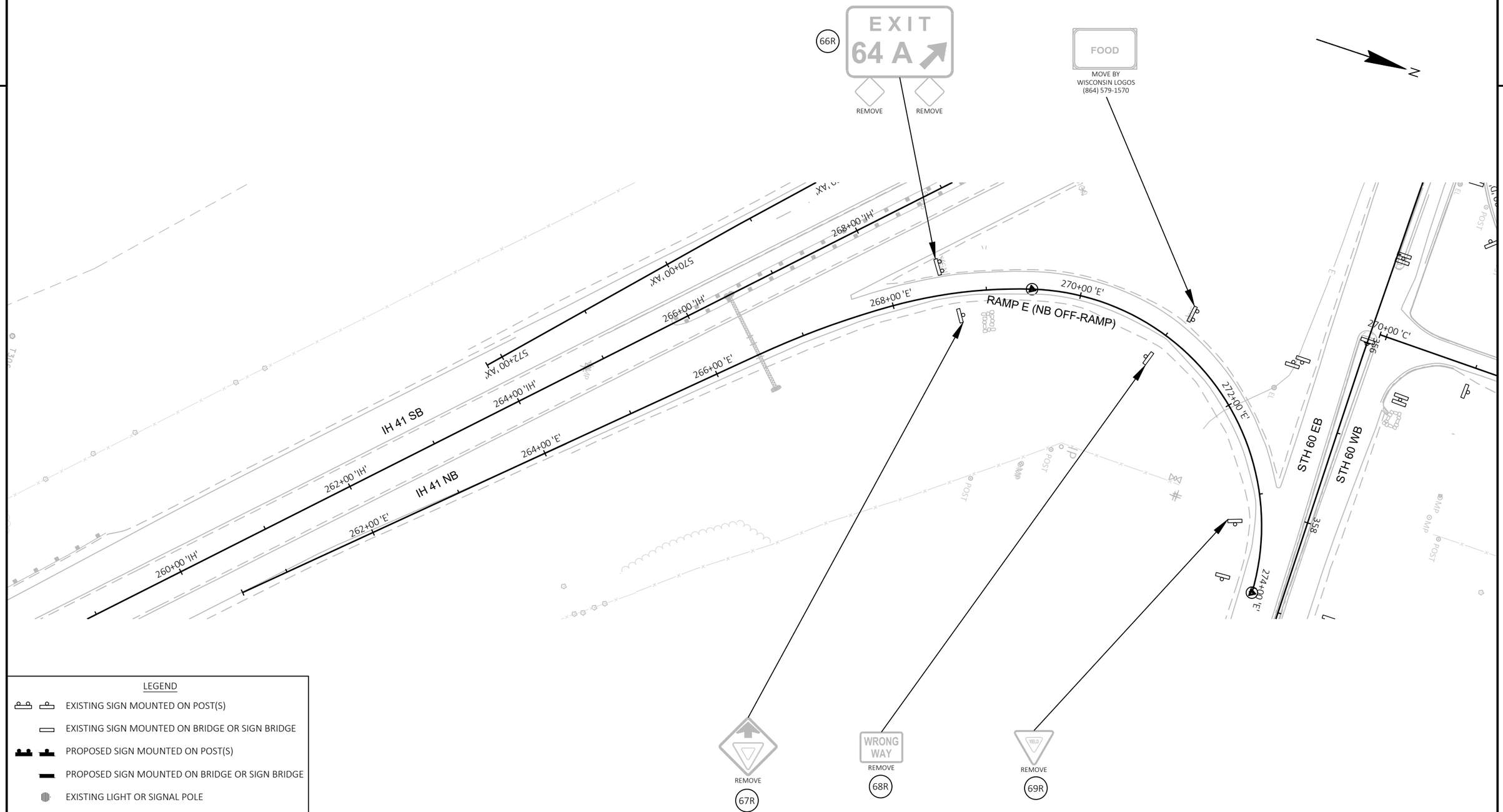
PROJECT NO: 2310-09-71	HWY: STH 60	COUNTY: WASHINGTON	SIGNING REMOVAL - RAMP C AND D	SHEET 81	E

FILE NAME : K:\195704_STH 60 AND IH 41 INTERSECTION\3.0 DELIVERABLES\3.02 ROADWAY\AUTOCAD\SHEETS\023201-PS-RM.DWG
LAYOUT NAME - 08

PLOT DATE : 7/18/2025 2:22 PM PLOT BY : OLSEN, CASSIE PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2



LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- EXISTING LIGHT OR SIGNAL POLE
- CANTILEVER SIGN BRIDGE
- XXX — DENOTES SIGN NUMBER
- (X) — DENOTES SIGN SIZE
- ESTR — EXISTING SIGN TO REMAIN

SHEET 10 OF 10

PROJECT NO: 2310-09-71	HWY: STH 60	COUNTY: WASHINGTON	SIGNING REMOVAL - RAMP E	SHEET 82	E

FILE NAME : K:\195704_STH 60 AND IH 41 INTERSECTION\3.0 DELIVERABLES\3.02 ROADWAY\AUTOCAD\SHEETS\023201-PS-RM.DWG
LAYOUT NAME - 09

PLOT DATE : 7/18/2025 2:23 PM PLOT BY : OLSEN, CASSIE PLOT NAME : PLOT SCALE : 1 IN:100 FT

2

N

JCT 164
ESTR

BEGIN CENTER LANE ONLY
ESTR

SPEED LIMIT 50
ESTR

STOP
ESTR

POST

55'

STH 60 EB

334+00 335+00 336+00 337+00 338+00 339+00 340

STH 60 WB

S Hetzel Way
ESTR

55'

ESTR
NORTH EAST SOUTH
INTERSTATE 41 | 60 | INTERSTATE 41
SECOND RIGHT

HETZEL WAY

STOP
ESTR

END CENTER LANE ONLY
ESTR

NEW TRAFFIC PATTERN AHEAD
W23-2
(2M)
1
16"x16" TEMPORARY WARNING FLAGS

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- EXISTING LIGHT OR SIGNAL POLE
- CANTILEVER SIGN BRIDGE
- XXX DENOTES SIGN NUMBER
- (X) DENOTES SIGN SIZE
- ESTR EXISTING SIGN TO REMAIN

SHEET 1 OF 10

PROJECT NO: 2310-09-71	HWY: STH 60	COUNTY: WASHINGTON	PERMANENT SIGNING	SHEET 83	E

FILE NAME : K:\195704_STH 60 AND IH 41 INTERSECTION\3.0 DELIVERABLES\3.02 ROADWAY\AUTOCAD\SHEETS\023202-PS.DWG
LAYOUT NAME - 1
PLOT DATE : 10/16/2025 9:54 AM
PLOT BY : OLSEN, CASSIE
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- EXISTING LIGHT OR SIGNAL POLE
- CANTILEVER SIGN BRIDGE
- XXX — DENOTES SIGN NUMBER
- (X) — DENOTES SIGN SIZE
- ESTR — EXISTING SIGN TO REMAIN

N

4 — SPEED LIMIT 50 — R2-1 (3)

7 — Downtown Slinger 1 / Hartford 3 — D2-2

8 — M3-4, M1-6, MB4-1, M1-1 — WEST ALTERNATE 60 INTERSTATE 41 — J4-2 (3)

9 — NO TRESPASSING STATE OF WIS-OWNER VIOLATORS WILL BE PROSECUTED SEC 943.13 WIS STATUTES — R5-98 (2M)

10 — DO NOT ENTER — R5-1 (3)

11 — NO TRESPASSING STATE OF WIS-OWNER VIOLATORS WILL BE PROSECUTED SEC 943.13 WIS STATUTES — R5-98 (2M)

14 — NO TRESPASSING STATE OF WIS-OWNER VIOLATORS WILL BE PROSECUTED SEC 943.13 WIS STATUTES — R5-98 (2M)

15 — STOP — R1-1F (3) MOUNT ON SIGNAL POLE

17 — DO NOT ENTER / WRONG WAY — R5-1 (5), R5-1A (5) 3' MOUNTING HEIGHT — 17A

⊙ MP ⊙ POST ⊙ EL

STH 60 WB

341+00 342+00 343+00 344+00 345+00 346+00

STH 60 EB

283+00 'A' 282+00 'A' 281+00 'A' 280+00 'A'

RAMP A (SB ON-RAMP)

⊙ POST

RAMP 40 MPH — W13-3 (3) — 2

Jackson / Fond du Lac / Milwaukee → — D1-2 — 3

W3-3 (3) 16"x16" TEMPORARY WARNING FLAGS — 5

SOUTH INTERSTATE 41 — MB3-3, M1-1, MB6-2 — J3-1 (3) — 6

R4-7 (3) — 12

W12-1D (3) 2' MOUNTING HEIGHT — 13

SOUTH INTERSTATE 41 — MB3-3, M1-1, MB6-2 — J3-1 (3) — 16

NORTH INTERSTATE 41 USE LEFT LANE — MB3-1, M1-1, MB4-20L — J3-1 (3) — 18, 19

SHEET 2 OF 10

PROJECT NO: 2310-09-71	HWY: STH 60	COUNTY: WASHINGTON	PERMANENT SIGNING	SHEET 84	E

FILE NAME : K:\195704_STH 60 AND IH 41 INTERSECTION\3.0 DELIVERABLES\3.02 ROADWAY\AUTOCAD\SHEETS\023202-PS.DWG
LAYOUT NAME - 10

PLOT DATE : 10/16/2025 9:55 AM PLOT BY : OLSEN, CASSIE PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- EXISTING LIGHT OR SIGNAL POLE
- CANTILEVER SIGN BRIDGE
- (XXX) DENOTES SIGN NUMBER
- (X) DENOTES SIGN SIZE
- ESTR EXISTING SIGN TO REMAIN

N

20 — 2' MOUNTING HEIGHT — W12-1D (3)

21 — MOUNT ON SIGNAL POLE — R1-1F (3)

25 — R5-1 (5)

25A — R5-1A (5) — 3' MOUNTING HEIGHT

29 — MOUNT ON SIGNAL POLE — R5-1 (3)

30 — MOUNT ON SIGNAL POLE — R1-1F (3)

33 — R3-1 (3)

26 — R1-1F (3)

27 — R6-2L (2S)

23 — R1-1F (3)

23A — R3-18 (3)

24 — R1-1F (3) — MOUNT ON SIGNAL POLE

28 — R6-2L (3) — MOUNT ON SIGNAL POLE

22 — J3-1 (3) — MB3-3 — M1-1 — MB6-1 — R4-7 (3) — MOUNT ON SIGNAL POLE

22A

31 — R4-7 (3) — MOUNT ON SIGNAL POLE

32 — R1-1F (3) — MOUNT ON SIGNAL POLE

34 — D1-1

35 — MB3-1 — M1-1 — MB5-1L — J3-1 (3)

36 — W5-52R (3) — 4' MOUNTING HEIGHT

37 — D1-1

RAMP B (SB OFF-RAMP)

RAMP A (SB ON-RAMP)

IH 41 SB

IH 41 NB

STH 60 WB

STH 60 EB

96234

95981

347+00 348+00 349+00 350+00 351+00 352+00

SHEET 3 OF 10

PROJECT NO: 2310-09-71	HWY: STH 60	COUNTY: WASHINGTON	PERMANENT SIGNING	SHEET 85	E

FILE NAME : K:\195704_STH 60 AND IH 41 INTERSECTION\3.0 DELIVERABLES\3.02 ROADWAY\AUTOCAD\SHEETS\023202-PS.DWG
LAYOUT NAME - 11

PLOT DATE : 10/16/2025 9:56 AM PLOT BY : OLSEN, CASSIE PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

N

38
SOUTH INTERSTATE 41
MB3-3
M1-1
MB5-1L
J3-1
(3)

39
W4-3R
(3)

45
DO NOT ENTER
R5-1
(3)

46
NORTH INTERSTATE 41
MB3-1
M1-1
MB6-1
J3-1
(3)

47 48
16"x16" TEMPORARY WARNING FLAGS
W3-3
(3)

RAMP D (NB OFF-RAMP)
293+00 'D'

POST
POST
EL

RAMP C (NB ON-RAMP)
270+00 'C'

STH 60 WB
STH 60 EB

353+00
354+00
355+00
356+00
357+00
358+00

95490

RAMP E (NB OFF-RAMP)
273+00 'E'
274+00

EL

40
NORTH INTERSTATE 41
MB3-1
M1-1
MB6-1
J3-1
(3)

41
R4-7
(3)

42
R4-7
(3)

43
W4-1R
(3)

44
WRONG WAY
R5-1A
(3)

49
DO NOT ENTER
R5-1
(3)

50
W4-2R
(3)

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- EXISTING LIGHT OR SIGNAL POLE
- CANTILEVER SIGN BRIDGE
- XXX — DENOTES SIGN NUMBER
- (X) — DENOTES SIGN SIZE
- ESTR — EXISTING SIGN TO REMAIN

SHEET 4 OF 10

PROJECT NO: 2310-09-71	HWY: STH 60	COUNTY: WASHINGTON	PERMANENT SIGNING	SHEET 86	E

FILE NAME : K:\195704_STH 60 AND IH 41 INTERSECTION\3.0 DELIVERABLES\3.02 ROADWAY\AUTOCAD\SHEETS\023202-PS.DWG
LAYOUT NAME - 12

PLOT DATE : 10/16/2025 9:57 AM PLOT BY : OLSEN, CASSIE PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

N

51
WRONG WAY
R5-1A
(3)

52
RIGHT LANE MUST TURN RIGHT
R3-7R
(3)

53
Milwaukee
Fond Du Lac
D1-2

55
TO WEST SOUTH
60 INTERSTATE 41
ONLY
TYPE I

56
NORTH
INTERSTATE 41
ONLY
TYPE I

59 60
16"x16" TEMPORARY WARNING FLAGS
NEW TRAFFIC PATTERN AHEAD
W23-2
(2M)

S-66-231
TO REMAIN

EL STH 60 WB

359+00 360+00 361+00 362+00 363+00 364+00 365+00

STH 60 EB

'E'

54
EAST
60
M3-2
M1-6
J4-1
(3)

57
Jackson 3
Grafton 14
D2-2

58
JCT
COUNTY C
M2-1
M1-5A
J1-1
(3)

61
W2-6
(3)

61A
20 MPH
W13-1
(3)

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- EXISTING LIGHT OR SIGNAL POLE
- CANTILEVER SIGN BRIDGE
- XXX DENOTES SIGN NUMBER
- (X) DENOTES SIGN SIZE
- ESTR EXISTING SIGN TO REMAIN

SHEET 5 OF 10

PROJECT NO: 2310-09-71	HWY: STH 60	COUNTY: WASHINGTON	PERMANENT SIGNING	SHEET 87	E

2

2

N

NO SIGNS THIS SHEET

STH 60 WB

366+00 367+00 368+00 369+00 370+00 371+00

STH 60 EB

POST

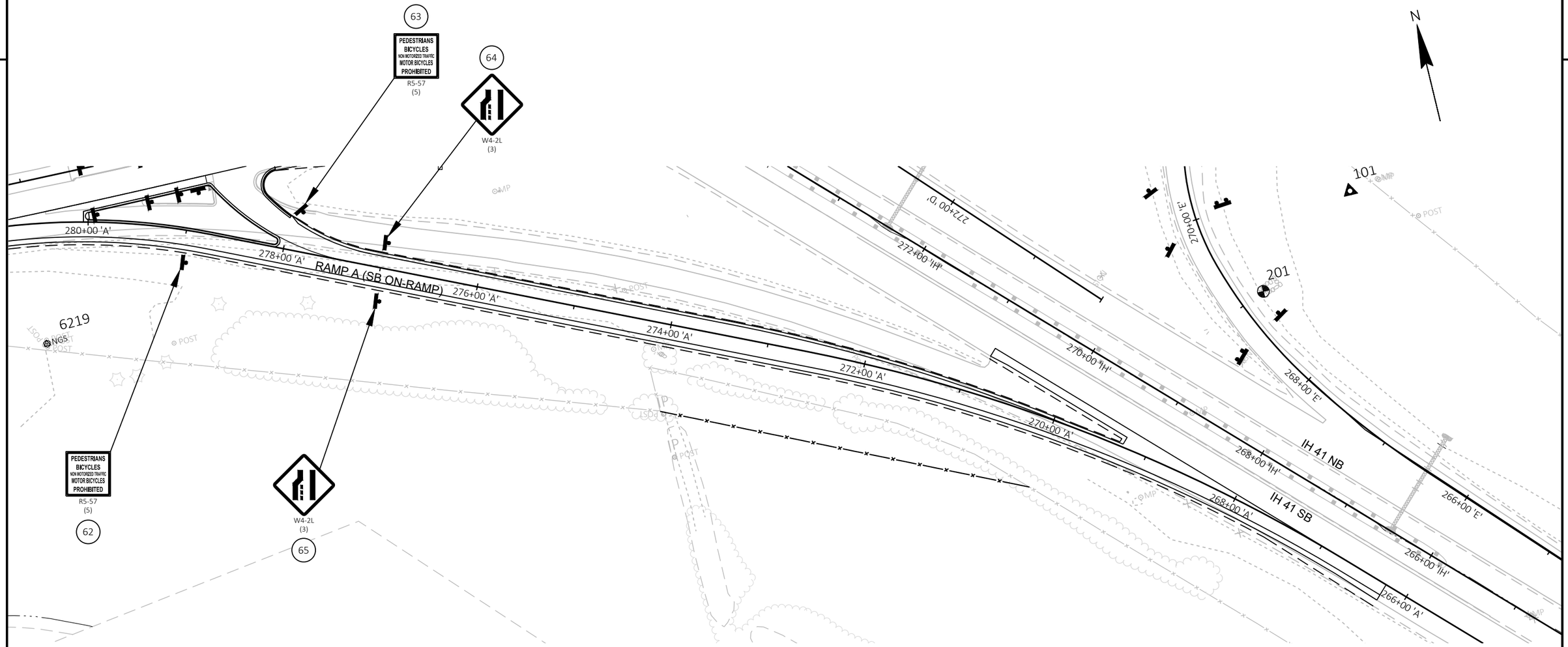
LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- EXISTING LIGHT OR SIGNAL POLE
- CANTILEVER SIGN BRIDGE
- XXX DENOTES SIGN NUMBER
- (X) DENOTES SIGN SIZE
- ESTR EXISTING SIGN TO REMAIN

PROJECT NO: 2310-09-71	HWY: STH 60	COUNTY: WASHINGTON	PERMANENT SIGNING	SHEET 88	E

FILE NAME : K:\195704_STH 60 AND IH 41 INTERSECTION\3.0 DELIVERABLES\3.02 ROADWAY\AUTOCAD\SHEETS\023202-PS.DWG
LAYOUT NAME - 14
PLOT DATE : 10/16/2025 9:59 AM PLOT BY : OLSEN, CASSIE PLOT NAME : PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2



LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- EXISTING LIGHT OR SIGNAL POLE
- CANTILEVER SIGN BRIDGE
- XXX — DENOTES SIGN NUMBER
- (X) — DENOTES SIGN SIZE
- ESTR — EXISTING SIGN TO REMAIN

RIDESHARE INFORMATION
www.rideshare.wi.gov

D12-2B
(3)

INSTALL ON IH 41 SB OUTSIDE SHOULDER 200' DOWNSTREAM OF 70 MPH SPEED LIMIT SIGN (APPROX. STA 243+00 'IH')

66

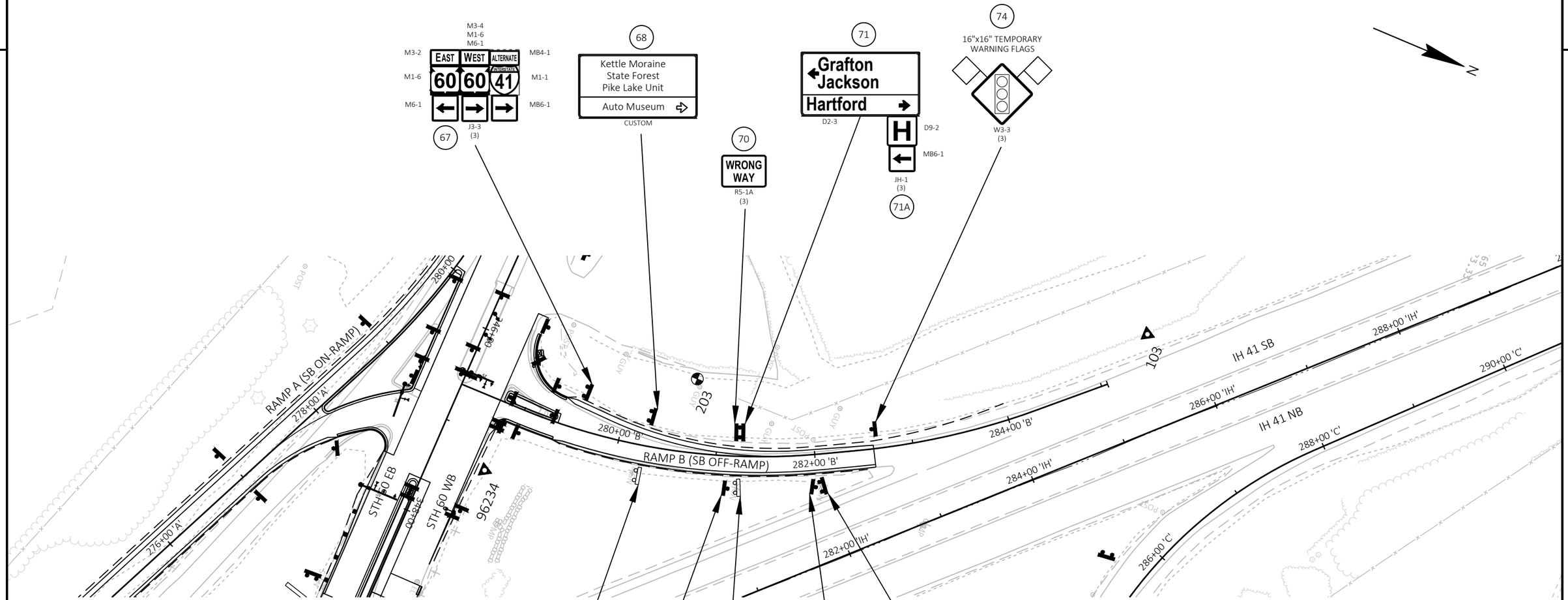
SHEET 7 OF 10

PROJECT NO: 2310-09-71	HWY: STH 60	COUNTY: WASHINGTON	PERMANENT SIGNING - RAMP A	SHEET 89	E

FILE NAME : K:\195704_STH 60 AND IH 41 INTERSECTION\3.0 DELIVERABLES\3.02 ROADWAY\AUTOCAD\SHEETS\023201-PS.DWG
LAYOUT NAME - 15

PLOT DATE : 10/16/2025 10:01 AM PLOT BY : OLSEN, CASSIE PLOT NAME : PLOT SCALE : 1 IN:100 FT

2



LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- EXISTING LIGHT OR SIGNAL POLE
- CANTILEVER SIGN BRIDGE
- XXX — DENOTES SIGN NUMBER
- (X) — DENOTES SIGN SIZE
- ESTR — EXISTING SIGN TO REMAIN

SHEET 8 OF 10

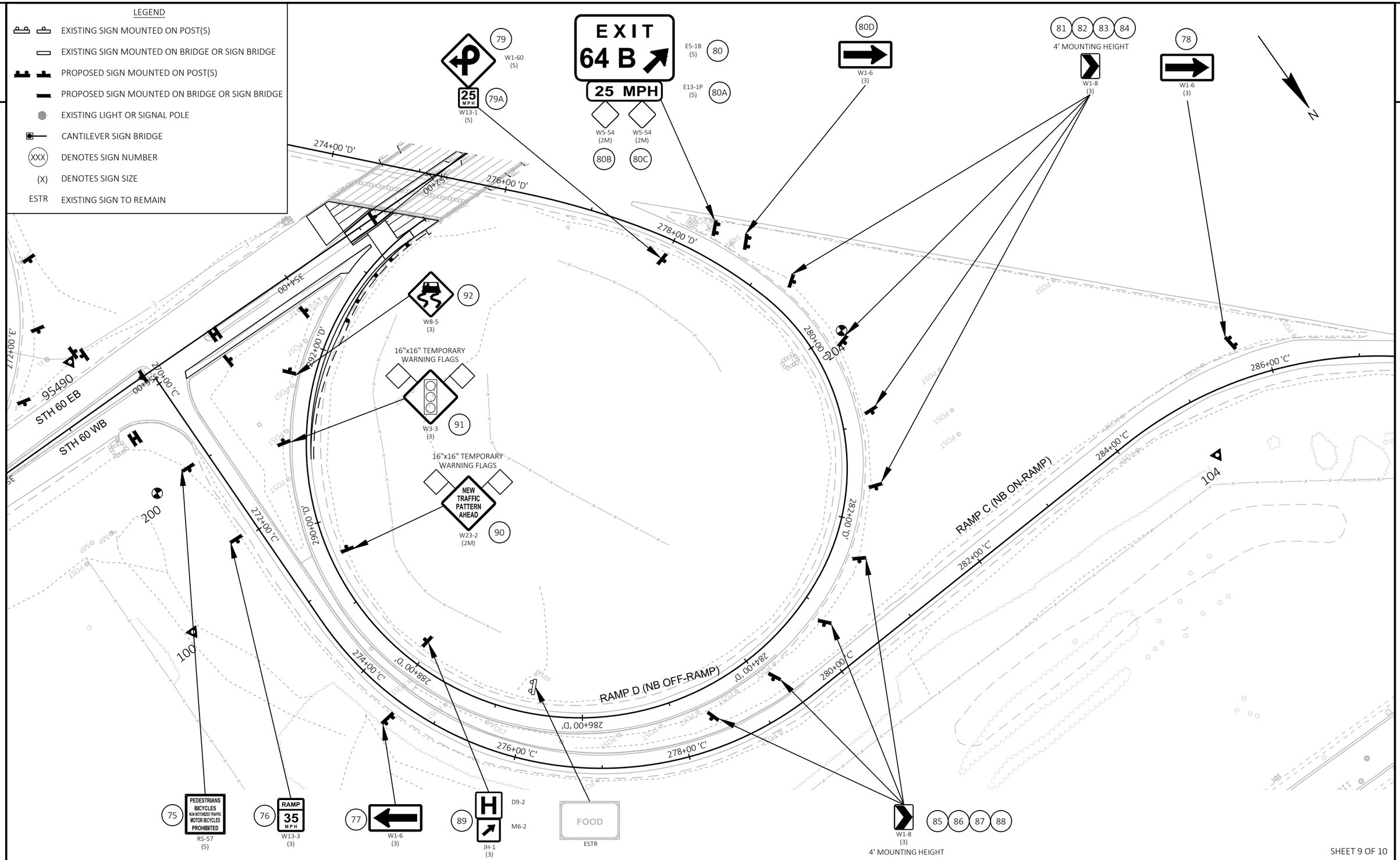
PROJECT NO: 2310-09-71	HWY: STH 60	COUNTY: WASHINGTON	PERMANENT SIGNING - RAMP B	SHEET 90	E

FILE NAME : K:\195704_STH 60 AND IH 41 INTERSECTION\3.0 DELIVERABLES\3.02 ROADWAY\AUTOCAD\SHEETS\023201-PS.DWG
LAYOUT NAME - 16

PLOT DATE : 10/16/2025 10:02 AM PLOT BY : OLSEN, CASSIE PLOT NAME : PLOT SCALE : 1 IN:100 FT

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- EXISTING LIGHT OR SIGNAL POLE
- CANTILEVER SIGN BRIDGE
- XXX DENOTES SIGN NUMBER
- (X) DENOTES SIGN SIZE
- ESTR EXISTING SIGN TO REMAIN



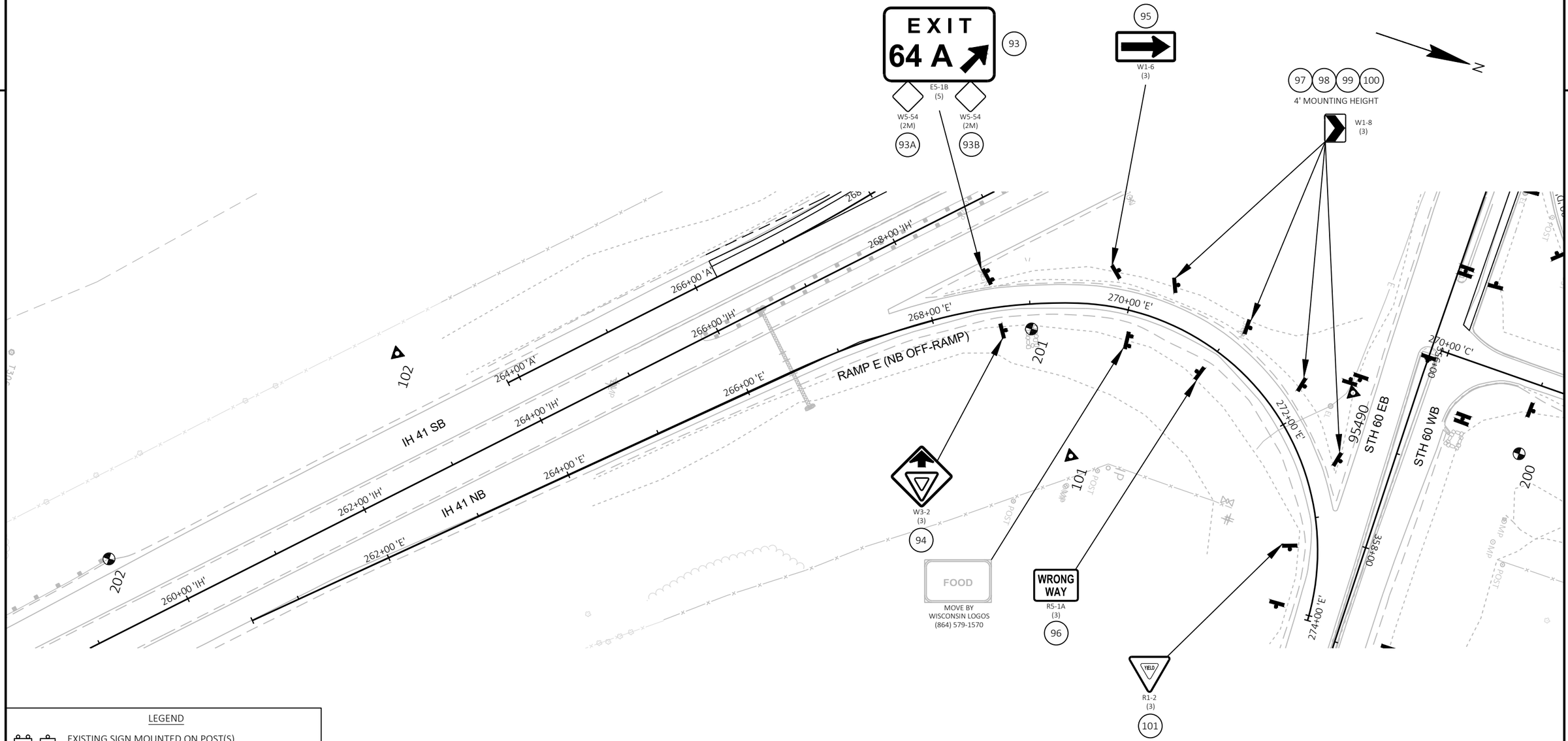
SHEET 9 OF 10

PROJECT NO: 2310-09-71	HWY: STH 60	COUNTY: WASHINGTON	PERMANENT SIGNING - RAMPS C AND D	SHEET 91	E

FILE NAME : K:\195704_STH 60 AND IH 41 INTERSECTION\3.0 DELIVERABLES\3.02 ROADWAY\AUTOCAD\SHEETS\023201-PS.DWG
LAYOUT NAME - 17

PLOT DATE : 10/16/2025 10:03 AM PLOT BY : OLSEN, CASSIE PLOT NAME : PLOT SCALE : 1 IN:100 FT

2



LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- EXISTING LIGHT OR SIGNAL POLE
- CANTILEVER SIGN BRIDGE
- (XXX) DENOTES SIGN NUMBER
- (X) DENOTES SIGN SIZE
- ESTR EXISTING SIGN TO REMAIN

SHEET 10 OF 10

PROJECT NO: 2310-09-71	HWY: STH 60	COUNTY: WASHINGTON	PERMANENT SIGNING - RAMP E	SHEET 92	E

FILE NAME : K:\195704_STH 60 AND IH 41 INTERSECTION\3.0 DELIVERABLES\3.02 ROADWAY\AUTOCAD\SHEETS\023201-PS.DWG
LAYOUT NAME - 18

PLOT DATE : 10/16/2025 10:04 AM PLOT BY : OLSEN, CASSIE PLOT NAME : PLOT SCALE : 1 IN:100 FT

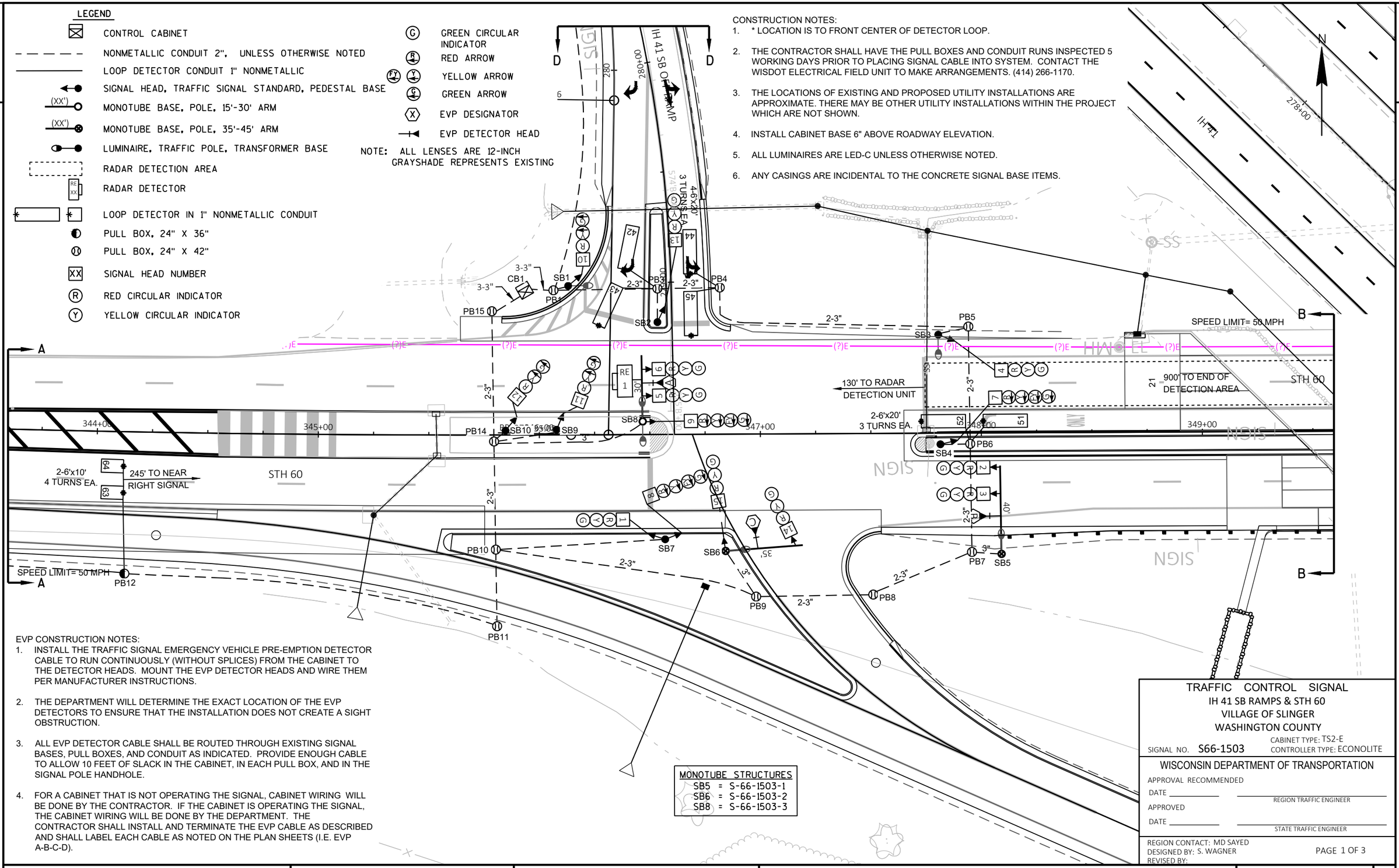
LEGEND

- CONTROL CABINET
- NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED
- LOOP DETECTOR CONDUIT 1" NONMETALLIC
- SIGNAL HEAD, TRAFFIC SIGNAL STANDARD, PEDESTAL BASE
- (XX') MONOTUBE BASE, POLE, 15'-30' ARM
- (XX') MONOTUBE BASE, POLE, 35'-45' ARM
- LUMINAIRE, TRAFFIC POLE, TRANSFORMER BASE
- RADAR DETECTION AREA
- RADAR DETECTOR
- LOOP DETECTOR IN 1" NONMETALLIC CONDUIT
- PULL BOX, 24" X 36"
- PULL BOX, 24" X 42"
- XX SIGNAL HEAD NUMBER
- (R) RED CIRCULAR INDICATOR
- (Y) YELLOW CIRCULAR INDICATOR
- (G) GREEN CIRCULAR INDICATOR
- (R) RED ARROW
- (Y) YELLOW ARROW
- (G) GREEN ARROW
- (X) EVP DESIGNATOR
- EVP DETECTOR HEAD

NOTE: ALL LENSES ARE 12-INCH
GRAYSHADE REPRESENTS EXISTING

CONSTRUCTION NOTES:

1. * LOCATION IS TO FRONT CENTER OF DETECTOR LOOP.
2. THE CONTRACTOR SHALL HAVE THE PULL BOXES AND CONDUIT RUNS INSPECTED 5 WORKING DAYS PRIOR TO PLACING SIGNAL CABLE INTO SYSTEM. CONTACT THE WISDOT ELECTRICAL FIELD UNIT TO MAKE ARRANGEMENTS. (414) 266-1170.
3. THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT WHICH ARE NOT SHOWN.
4. INSTALL CABINET BASE 6" ABOVE ROADWAY ELEVATION.
5. ALL LUMINAIRES ARE LED-C UNLESS OTHERWISE NOTED.
6. ANY CASINGS ARE INCIDENTAL TO THE CONCRETE SIGNAL BASE ITEMS.



EVP CONSTRUCTION NOTES:

1. INSTALL THE TRAFFIC SIGNAL EMERGENCY VEHICLE PRE-EMPTION DETECTOR CABLE TO RUN CONTINUOUSLY (WITHOUT SPLICES) FROM THE CABINET TO THE DETECTOR HEADS. MOUNT THE EVP DETECTOR HEADS AND WIRE THEM PER MANUFACTURER INSTRUCTIONS.
2. THE DEPARTMENT WILL DETERMINE THE EXACT LOCATION OF THE EVP DETECTORS TO ENSURE THAT THE INSTALLATION DOES NOT CREATE A SIGHT OBSTRUCTION.
3. ALL EVP DETECTOR CABLE SHALL BE ROUTED THROUGH EXISTING SIGNAL BASES, PULL BOXES, AND CONDUIT AS INDICATED. PROVIDE ENOUGH CABLE TO ALLOW 10 FEET OF SLACK IN THE CABINET, IN EACH PULL BOX, AND IN THE SIGNAL POLE HANDHOLE.
4. FOR A CABINET THAT IS NOT OPERATING THE SIGNAL, CABINET WIRING WILL BE DONE BY THE CONTRACTOR. IF THE CABINET IS OPERATING THE SIGNAL, THE CABINET WIRING WILL BE DONE BY THE DEPARTMENT. THE CONTRACTOR SHALL INSTALL AND TERMINATE THE EVP CABLE AS DESCRIBED AND SHALL LABEL EACH CABLE AS NOTED ON THE PLAN SHEETS (I.E. EVP A-B-C-D).

MONOTUBE STRUCTURES
SB5 = S-66-1503-1
SB6 = S-66-1503-2
SB8 = S-66-1503-3

TRAFFIC CONTROL SIGNAL
IH 41 SB RAMPS & STH 60
VILLAGE OF SLINGER
WASHINGTON COUNTY

SIGNAL NO. S66-1503
CABINET TYPE: TS2-E
CONTROLLER TYPE: ECONOLITE

WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVAL RECOMMENDED
DATE _____ REGION TRAFFIC ENGINEER
APPROVED
DATE _____ STATE TRAFFIC ENGINEER

REGION CONTACT: MD SAYED
DESIGNED BY: S. WAGNER
REVISED BY:

PAGE 1 OF 3

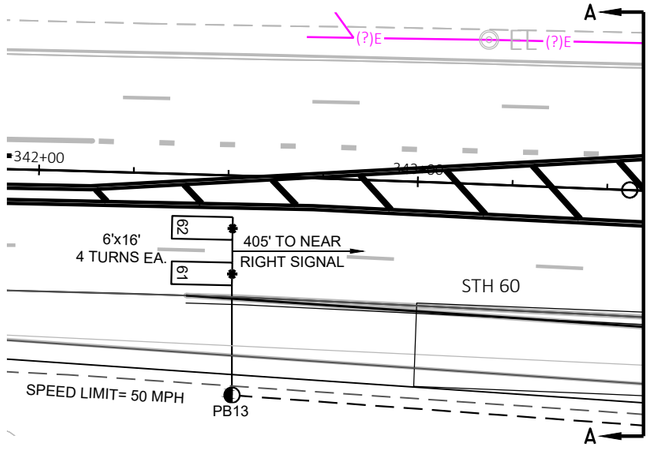
PROJECT NO: 2310-09-71	HWY: STH 60	COUNTY: WASHINGTON	TRAFFIC SIGNAL PLAN	SHEET 93 E

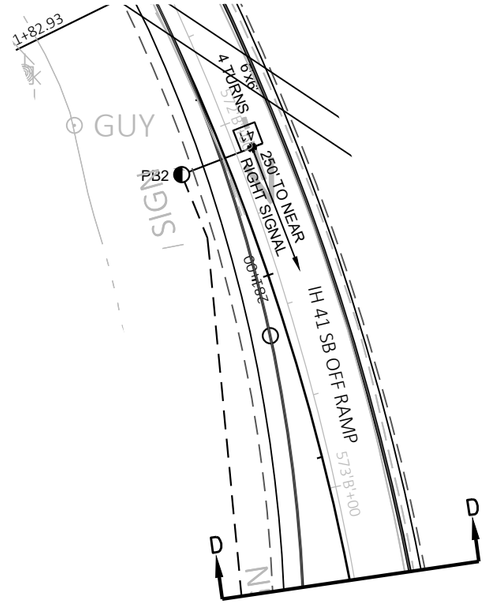
FILE NAME : N:\PDS\C3D\CAD\23100901\SIG\S66-1503\S66-1503.DWG
LAYOUT NAME - S66-1503_PG1
PLOT DATE : 10/23/2025 2:20 PM PLOT BY : WAGNER, SCOTT H PLOT NAME : PLOT SCALE : 1 IN:40 FT

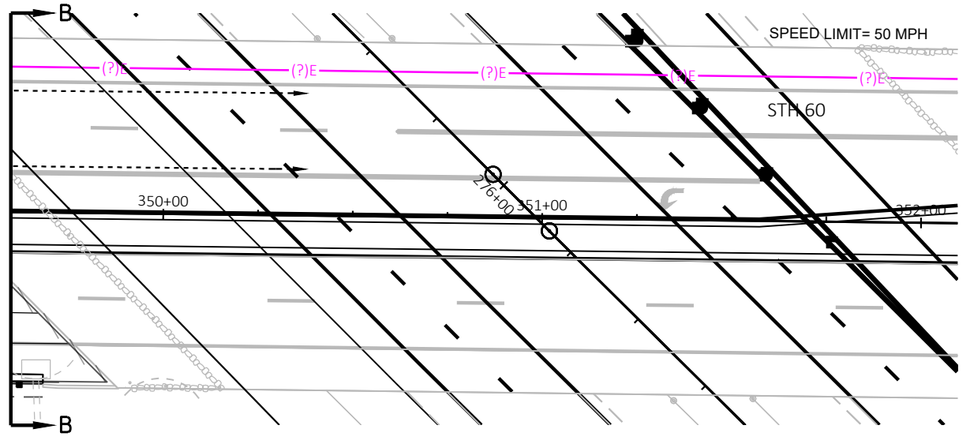
WISDOT/CADDS SHEET 42

2

N







TRAFFIC CONTROL SIGNAL
IH 41 SB RAMPS & STH 60
VILLAGE OF SLINGER
WASHINGTON COUNTY

SIGNAL NO. S66-1503

REGION CONTACT: MD SAYED
DESIGNED BY: S. WAGNER
REVISED BY:

PAGE 2 OF 3

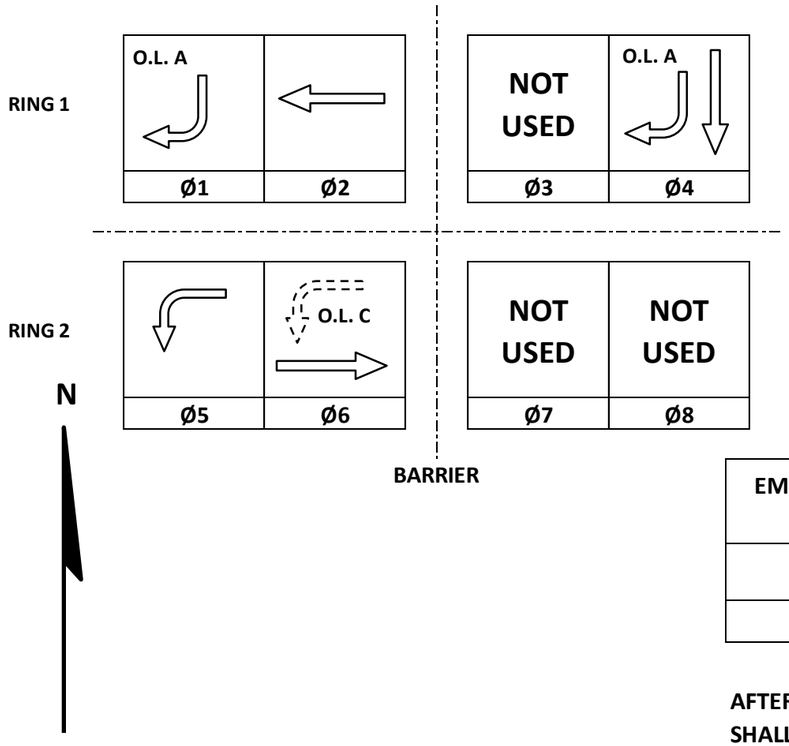
PROJECT NO: 2310-09-71	HWY: STH 60	COUNTY: WASHINGTON	TRAFFIC SIGNAL PLAN	SHEET 94	E

FILE NAME : N:\PDS\C3D\CAD\23100901\SIG\S66-1503\S66-1503.DWG
LAYOUT NAME - S66-1503_PG2

PLOT DATE : 10/23/2025 2:21 PM PLOT BY : WAGNER, SCOTT H PLOT NAME : PLOT SCALE : ##########

WISDOT/CADDS SHEET 42

	HEAD NUMBERS	FLASH
Ø1		
Ø2	4,5,6	R
Ø3		
Ø4	12,13,14	R
Ø5	7,8,9	R ←
Ø6	1,2,3	R
Ø7		
Ø8		
Ø2P		
Ø4P		
Ø6P		
Ø8P		
OLA	9,10,11	R
OLB		
OLC	7,8,9	
OLD		



CONTROLLER LOGIC

PHASE NUMBER	PHASE LOCKING	DUAL ENTRY W / Ø	PHASE RECALL	PHASE ACTIVE
1				
2		6	MIN	X
3				
4				X
5		2		X
6		2	MIN	X
7				
8				

EMERGENCY VEHICLE PREEMPTION SEQUENCE

EMERGENCY VEHICLE PREEMPTOR	A	B	C
MOVEMENT	←	←	↓
PHASE	2+5	6+2	4

AFTER PREEMPTION SEQUENCE 2+5 OR 6+2, CONTROLLER SHALL RETURN TO PHASES 2+6.
AFTER PREEMPTION SEQUENCE 4, CONTROLLER SHALL RETURN TO PHASE 4.

TYPE OF INTERCONNECT/COMMUNICATION	
NONE	
CLOSED LOOP	
TWISTED PAIR	
FIBER OPTIC*	
FIBER OPTIC (ETHERNET)	
RADIO	
CELL MODEM	X

TYPE OF COORDINATION	
NONE	
TBC	X
TRAFFIC RESPONSIVE	
ADAPTIVE	
*LOCATION OF MASTER CONTROLLER NO: S-	
SIGNAL SYSTEM NO: SS-	

TYPE OF LIGHTING	
BY OTHER AGENCY	
IN TRAFFIC CABINET	X
IN SEPARATE DOT LIGHTING CABINET	

TYPE OF PRE-EMPT	
NONE	
RAILROAD	
EMERGENCY VEHICLE	X
GTT	
TOMAR	X
HARDWIRE	
OTHER	
CONFIRMATION LIGHTS	
LIFT BRIDGE	
QUEUE DETECTION	

DETECTOR LOGIC

DETECTOR INPUT	3	1	7	5	11	9	15	13
PLAN LOOP DETECTOR*(S)	41	43	45	52	62	64		
CALLED PHASE	4	1,4	4	5	6	6		
CALL OPTION		X	X	X	X	X		
DELAY TIME		X						
EXTENSION OPTION	X	X			X	X		
EXTEND TIME	X		X	X				
USE ADDED INITIAL					X	X		
CROSS SWITCH PHASE								

19	17	23	21	27	25	31	29	DETECTOR INPUT
21								PLAN LOOP DETECTOR*(S)
2								CALLED PHASE
X								CALL OPTION
								DELAY TIME
X								EXTENSION OPTION
								EXTEND TIME
								USE ADDED INITIAL
								CROSS SWITCH PHASE

DETECTOR INPUT	4	2	8	6	12	10	16	14
PLAN LOOP DETECTOR*(S)	42	44	51	61	63			
CALLED PHASE	1,4	4	5	6	6			
CALL OPTION	X	X	X	X	X			
DELAY TIME	X							
EXTENSION OPTION	X	X	X	X	X			
EXTEND TIME								
USE ADDED INITIAL				X	X			
CROSS SWITCH PHASE								

20	18	24	22	28	26	32	30	DETECTOR INPUT
								PLAN LOOP DETECTOR*(S)
								CALLED PHASE
								CALL OPTION
								DELAY TIME
								EXTENSION OPTION
								EXTEND TIME
								USE ADDED INITIAL
								CROSS SWITCH PHASE

IH 41 SB RAMPS & STH 60
VILLAGE OF SLINGER
WASHINGTON COUNTY

SIGNAL NO: S66-1503 CABINET TYPE: TS2-E
CONTROLLER TYPE: ECONOLITE
DATE: 10/2025 PAGE NUMBER: 3 OF 3

2

2

N

322+00

323+00

324+00

325+00

326+00

327+00

STH 60

R/L STH 60

+05 , 10.00' RT

+05 , 22.00' RT

+22.02 , 45.92' RT

+46.72 , 34.00' RT

12'

12'

MATCH LINE 327+50

LOVERS LANE/STH 164

1

2

4

5

LEGEND

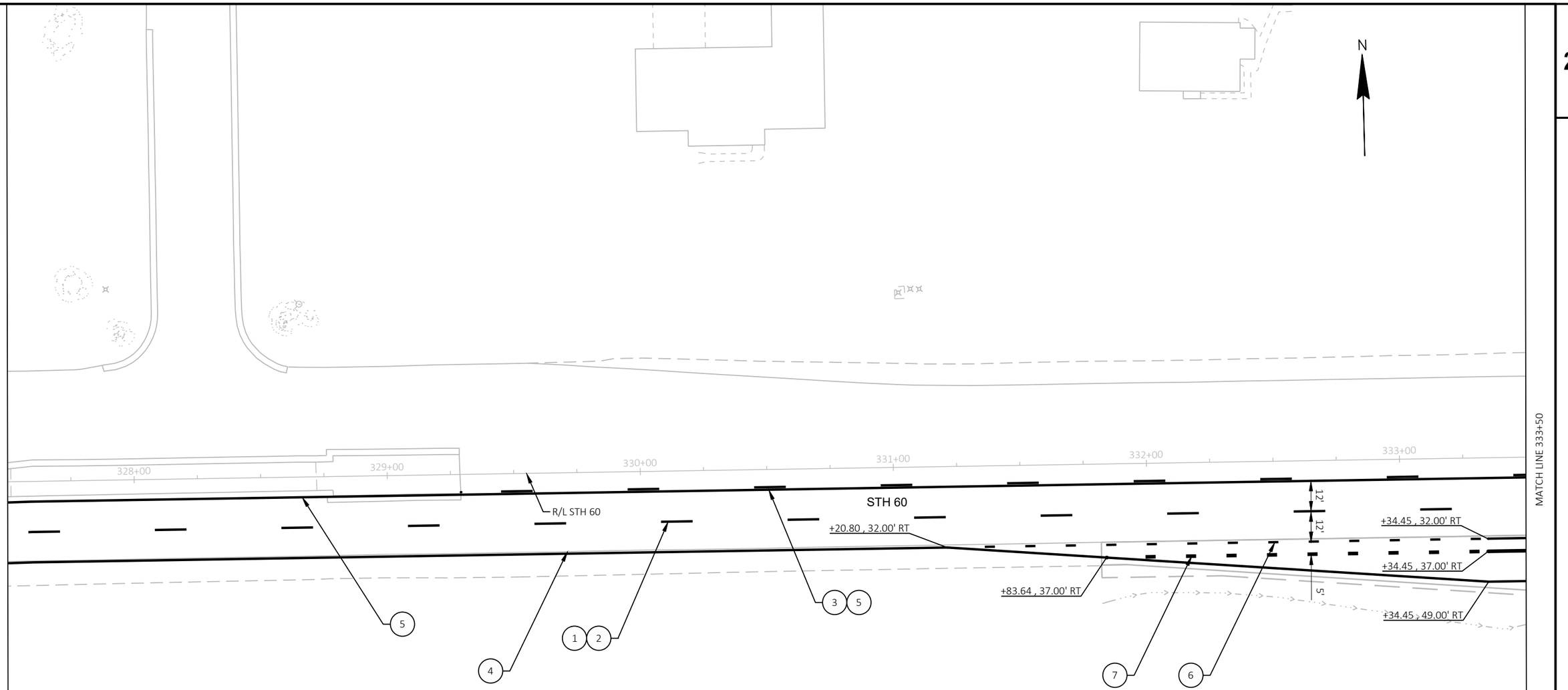
1. MARKING LINE GROOVED WET REFLECTIVE EPOXY 6-INCH, WHITE, 12.5' SEG., 12.5' BLACK LAG, 25' GAP
2. MARKING LINE GROOVED BLACK EPOXY 6-INCH, 12.5' SEG., 12.5' BLACK LAG, 25' GAP
3. MARKING LINE GROOVED WET REFLECTIVE EPOXY 6-INCH, YELLOW, 12.5' SEG., 37.5' GAP
4. MARKING LINE GROOVED WET REFLECTIVE EPOXY 6-INCH, WHITE
5. MARKING LINE GROOVED WET REFLECTIVE EPOXY 6-INCH, YELLOW
6. MARKING LINE GROOVED WET REFLECTIVE EPOXY 6-INCH, WHITE, 3' SEG, 9' GAP
7. MARKING LINE GROOVED WET REFLECTIVE EPOXY 10-INCH, WHITE, 3' SEG., 9' GAP
8. MARKING LINE GROOVED WET REFLECTIVE EPOXY 10-INCH, WHITE
9. MARKING STOP LINE EPOXY 18-INCH, WHITE
10. MARKING WORD EPOXY
11. MARKING ARROW EPOXY, TYPE 2
12. MARKING ARROW EPOXY, TYPE 4
13. MARKING CURB EPOXY, YELLOW
14. MARKING ISLAND NOSE EPOXY, YELLOW
15. MARKING CORRUGATED MEDIAN EPOXY
16. MARKING CHEVRON EPOXY 24-INCH, WHITE
17. MARKING DIAGONAL EPOXY 12-INCH, YELLOW
18. MARKING DIAGONAL EPOXY 12-INCH, WHITE

SINGLE DELINEATOR WHITE/RIGHT YELLOW/LEFT

DOUBLE DELINEATOR WHITE/RIGHT YELLOW/LEFT

PROJECT NO: 2310-09-71	HWY: STH 60	COUNTY: WASHINGTON	PAVEMENT MARKING	SHEET 96	E

2



LEGEND

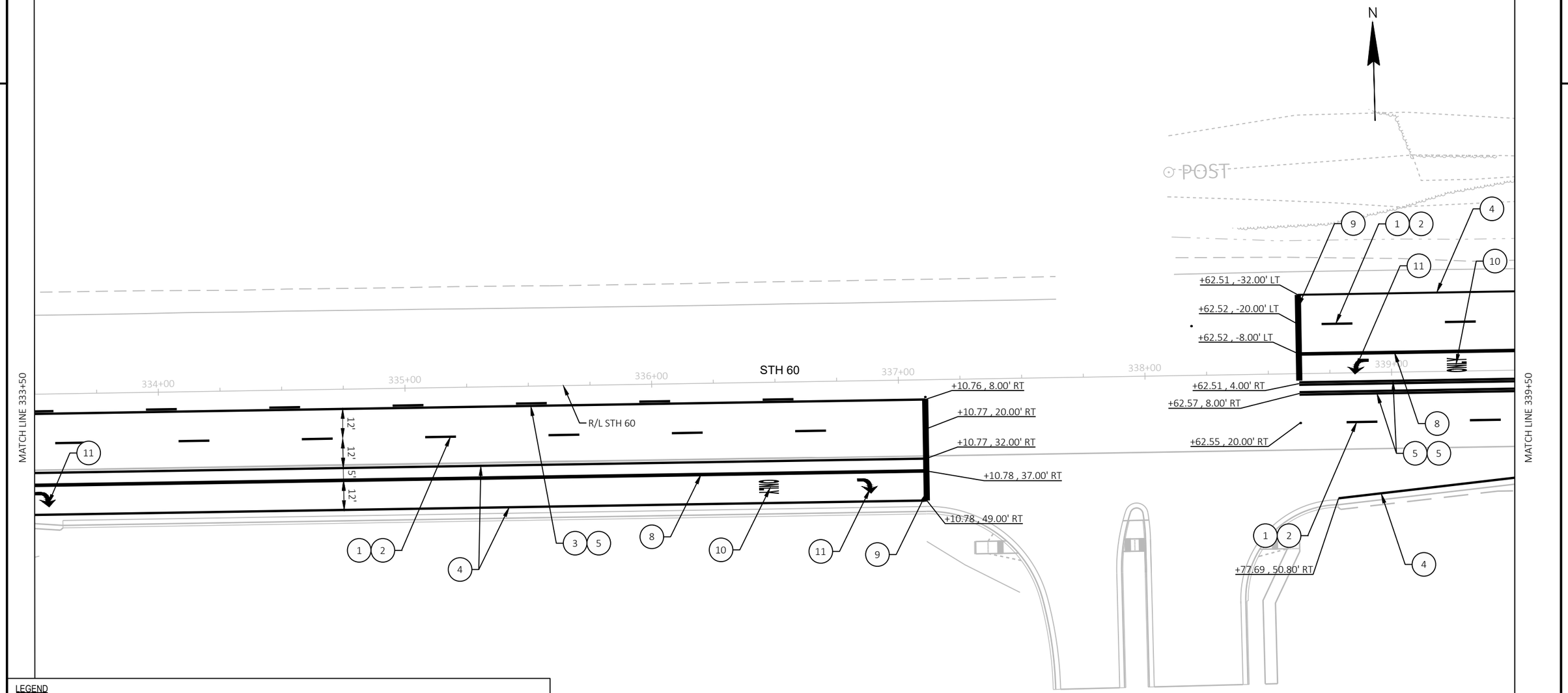
1. MARKING LINE GROOVED WET REFLECTIVE EPOXY 6-INCH, WHITE, 12.5' SEG., 12.5' BLACK LAG, 25' GAP
2. MARKING LINE GROOVED BLACK EPOXY 6-INCH, 12.5' SEG., 12.5' BLACK LAG, 25' GAP
3. MARKING LINE GROOVED WET REFLECTIVE EPOXY 6-INCH, YELLOW, 12.5' SEG., 37.5' GAP
4. MARKING LINE GROOVED WET REFLECTIVE EPOXY 6-INCH, WHITE
5. MARKING LINE GROOVED WET REFLECTIVE EPOXY 6-INCH, YELLOW
6. MARKING LINE GROOVED WET REFLECTIVE EPOXY 6-INCH, WHITE, 3' SEG, 9' GAP
7. MARKING LINE GROOVED WET REFLECTIVE EPOXY 10-INCH, WHITE, 3' SEG., 9' GAP
8. MARKING LINE GROOVED WET REFLECTIVE EPOXY 10-INCH, WHITE
9. MARKING STOP LINE EPOXY 18-INCH, WHITE
10. MARKING WORD EPOXY
11. MARKING ARROW EPOXY, TYPE 2
12. MARKING ARROW EPOXY, TYPE 4
13. MARKING CURB EPOXY, YELLOW
14. MARKING ISLAND NOSE EPOXY, YELLOW
15. MARKING CORRUGATED MEDIAN EPOXY
16. MARKING CHEVRON EPOXY 24-INCH, WHITE
17. MARKING DIAGONAL EPOXY 12-INCH, YELLOW
18. MARKING DIAGONAL EPOXY 12-INCH, WHITE

SINGLE DELINEATOR WHITE/RIGHT YELLOW/LEFT

DOUBLE DELINEATOR WHITE/RIGHT YELLOW/LEFT

PROJECT NO: 2310-09-71	HWY: STH 60	COUNTY: WASHINGTON	PAVEMENT MARKING	SHEET 97	E

2

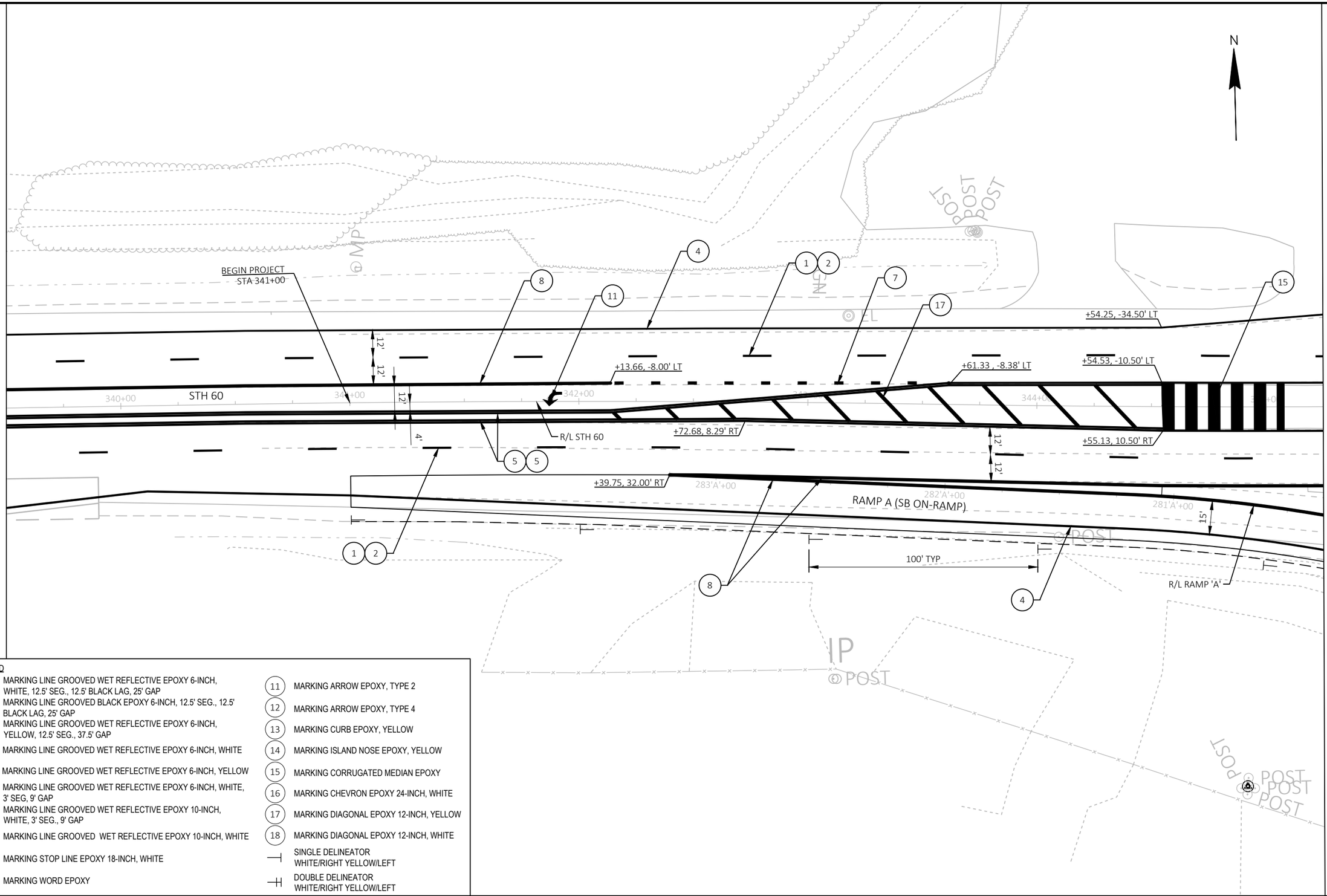


LEGEND

1	MARKING LINE GROOVED WET REFLECTIVE EPOXY 6-INCH, WHITE, 12.5' SEG., 12.5' BLACK LAG, 25' GAP	11	MARKING ARROW EPOXY, TYPE 2
2	MARKING LINE GROOVED BLACK EPOXY 6-INCH, 12.5' SEG., 12.5' BLACK LAG, 25' GAP	12	MARKING ARROW EPOXY, TYPE 4
3	MARKING LINE GROOVED WET REFLECTIVE EPOXY 6-INCH, YELLOW, 12.5' SEG., 37.5' GAP	13	MARKING CURB EPOXY, YELLOW
4	MARKING LINE GROOVED WET REFLECTIVE EPOXY 6-INCH, WHITE	14	MARKING ISLAND NOSE EPOXY, YELLOW
5	MARKING LINE GROOVED WET REFLECTIVE EPOXY 6-INCH, YELLOW	15	MARKING CORRUGATED MEDIAN EPOXY
6	MARKING LINE GROOVED WET REFLECTIVE EPOXY 6-INCH, WHITE, 3' SEG, 9' GAP	16	MARKING CHEVRON EPOXY 24-INCH, WHITE
7	MARKING LINE GROOVED WET REFLECTIVE EPOXY 10-INCH, WHITE, 3' SEG., 9' GAP	17	MARKING DIAGONAL EPOXY 12-INCH, YELLOW
8	MARKING LINE GROOVED WET REFLECTIVE EPOXY 10-INCH, WHITE	18	MARKING DIAGONAL EPOXY 12-INCH, WHITE
9	MARKING STOP LINE EPOXY 18-INCH, WHITE	⊣	SINGLE DELINEATOR WHITE/RIGHT YELLOW/LEFT
10	MARKING WORD EPOXY	⊣⊢	DOUBLE DELINEATOR WHITE/RIGHT YELLOW/LEFT

PROJECT NO: 2310-09-71	HWY: STH 60	COUNTY: WASHINGTON	PAVEMENT MARKING	SHEET 98	E

2



LEGEND

1	MARKING LINE GROOVED WET REFLECTIVE EPOXY 6-INCH, WHITE, 12.5' SEG., 12.5' BLACK LAG, 25' GAP	11	MARKING ARROW EPOXY, TYPE 2
2	MARKING LINE GROOVED BLACK EPOXY 6-INCH, 12.5' SEG., 12.5' BLACK LAG, 25' GAP	12	MARKING ARROW EPOXY, TYPE 4
3	MARKING LINE GROOVED WET REFLECTIVE EPOXY 6-INCH, YELLOW, 12.5' SEG., 37.5' GAP	13	MARKING CURB EPOXY, YELLOW
4	MARKING LINE GROOVED WET REFLECTIVE EPOXY 6-INCH, WHITE	14	MARKING ISLAND NOSE EPOXY, YELLOW
5	MARKING LINE GROOVED WET REFLECTIVE EPOXY 6-INCH, YELLOW	15	MARKING CORRUGATED MEDIAN EPOXY
6	MARKING LINE GROOVED WET REFLECTIVE EPOXY 6-INCH, WHITE, 3' SEG, 9' GAP	16	MARKING CHEVRON EPOXY 24-INCH, WHITE
7	MARKING LINE GROOVED WET REFLECTIVE EPOXY 10-INCH, WHITE, 3' SEG., 9' GAP	17	MARKING DIAGONAL EPOXY 12-INCH, YELLOW
8	MARKING LINE GROOVED WET REFLECTIVE EPOXY 10-INCH, WHITE	18	MARKING DIAGONAL EPOXY 12-INCH, WHITE
9	MARKING STOP LINE EPOXY 18-INCH, WHITE	⊣	SINGLE DELINEATOR WHITE/RIGHT YELLOW/LEFT
10	MARKING WORD EPOXY	⊣⊢	DOUBLE DELINEATOR WHITE/RIGHT YELLOW/LEFT

PROJECT NO: 2310-09-71	HWY: STH 60	COUNTY: WASHINGTON	PAVEMENT MARKING	SHEET 99	E

FILE NAME : K:\195704_STH 60 AND IH 41 INTERSECTION\3.0 DELIVERABLES\3.02 ROADWAY\AUTOCAD\SHEETS\024501-PM.DWG
LAYOUT NAME - 04

PLOT DATE : 10/16/2025 1:49 PM PLOT BY : OLSEN, CASSIE PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

LEGEND

1	MARKING LINE GROOVED WET REFLECTIVE EPOXY 6-INCH, WHITE, 12.5' SEG., 12.5' BLACK LAG, 25' GAP	11	MARKING ARROW EPOXY, TYPE 2
2	MARKING LINE GROOVED BLACK EPOXY 6-INCH, 12.5' SEG., 12.5' BLACK LAG, 25' GAP	12	MARKING ARROW EPOXY, TYPE 4
3	MARKING LINE GROOVED WET REFLECTIVE EPOXY 6-INCH, YELLOW, 12.5' SEG., 37.5' GAP	13	MARKING CURB EPOXY, YELLOW
4	MARKING LINE GROOVED WET REFLECTIVE EPOXY 6-INCH, WHITE	14	MARKING ISLAND NOSE EPOXY, YELLOW
5	MARKING LINE GROOVED WET REFLECTIVE EPOXY 6-INCH, YELLOW	15	MARKING CORRUGATED MEDIAN EPOXY
6	MARKING LINE GROOVED WET REFLECTIVE EPOXY 6-INCH, WHITE, 3' SEG, 9' GAP	16	MARKING CHEVRON EPOXY 24-INCH, WHITE
7	MARKING LINE GROOVED WET REFLECTIVE EPOXY 10-INCH, WHITE, 3' SEG., 9' GAP	17	MARKING DIAGONAL EPOXY 12-INCH, YELLOW
8	MARKING LINE GROOVED WET REFLECTIVE EPOXY 10-INCH, WHITE	18	MARKING DIAGONAL EPOXY 12-INCH, WHITE
9	MARKING STOP LINE EPOXY 18-INCH, WHITE		SINGLE DELINEATOR WHITE/RIGHT YELLOW/LEFT
10	MARKING WORD EPOXY		DOUBLE DELINEATOR WHITE/RIGHT YELLOW/LEFT

N

MATCH LINE 345+25

MATCH LINE 351+00

RAMP B (SB OFF-RAMP)

+98.44 'B', 0.00'

MARKING ARROW EPOXY TYPE 3

15'

16'

+16.77 'B', -26.22' LT

MARKING ARROW EPOXY TYPE 3

R40'

+93.46 , -45.18' LT

R/L RAMP 'B'

STH 60

R/L STH 60

+49.80, -10.50' LT

+74.81, -34.50' LT

+74.81, -22.50' LT

+74.81, -10.50' LT

R/L RAMP 'A1'

+50.09, 10.50' RT

+79.94, -0.50' LT

+79.94, 10.50' RT

+84.02, 34.50' RT

+50.41, 34.50' RT

+59.86 'A1', 0.00'

+07.07'A1', 22.20' RT

+33.47'A', 0.00'

+83.47'A', 0.00'

RAMP A (SB ON-RAMP)

100' TYP

15'

12'

IH 41 SB

MARKING LINE EPOXY 6-INCH, WHITE

MARKING LINE EPOXY 6-INCH, WHITE

MARKING LINE EPOXY 6-INCH BLACK NON GROOVED 12.5' SEG., 12.5' BLACK LAG, 25' GAP

MARKING LINE EPOXY 10-INCH, WHITE

MARKING LINE EPOXY 6-INCH, YELLOW

MARKING LINE EPOXY 10-INCH, WHITE

STA 349+04.88, -34.50' LT

STA 349+17.14, -22.50' LT

STA 349+29.40, -10.50' LT

STA 349+39.62, -0.50' LT

STA 350+61.50, -22.50' LT

12'

12'

10'

12'

12'

NOTE:

MARKING LINES ON STRUCTURE B-66-103 TO BE STANDARD EPOXY WITHOUT GROOVE DUE TO APPLICATION OF HIGH FRICTION SURFACE TREATMENT POLYMER OVERLAY.

GUY

POST

MP

SS

EL

SIGN

PROJECT NO: 2310-09-71	HWY: STH 60	COUNTY: WASHINGTON	PAVEMENT MARKING	SHEET 100	E

NOTE:

MARKING LINES ON STRUCTURE B-66-103 TO BE STANDARD EPOXY WITHOUT GROOVE DUE TO APPLICATION OF HIGH FRICTION SURFACE TREATMENT POLYMER OVERLAY.

STRUCTURE B-66-103

MARKING LINE EPOXY 6-INCH, WHITE

MARKING LINE EPOXY 10-INCH, WHITE

MARKING LINE EPOXY 6-INCH, YELLOW

R/L RAMP 'D'

RAMP D (NB OFF-RAMP)

+31.65 , -34.50' LT

+43.81 , -22.50' LT

+57.34, -10.50' LT

+57.35, -0.50' LT

+58.06 , -8.56' LT

+83.22, -22.50' LT

+82.35, -10.50' LT

+30.74 'D', -16.00' LT

STH 60

+77.60 , 10.49' RT

+79.43 , 0.74' RT

+79.55 , 10.50' RT

+98.02, 1.01' RT

+15.81 , 10.50' RT

R/L STH 60

R/L RAMP 'C'

RAMP C (NB ON-RAMP)

+77.98 'C', -16.00' LT

+28.10 'C', 0.00'

+78.05 'C', 5.64' RT

MATCH LINE 351+00

MATCH LINE 356+50

IH 41 NB

IH 41 SB

STRUCTURE B-66-102

LEGEND

1. MARKING LINE GROOVED WET REFLECTIVE EPOXY 6-INCH, WHITE, 12.5' SEG., 12.5' BLACK LAG, 25' GAP
2. MARKING LINE GROOVED BLACK EPOXY 6-INCH, 12.5' SEG., 12.5' BLACK LAG, 25' GAP
3. MARKING LINE GROOVED WET REFLECTIVE EPOXY 6-INCH, YELLOW, 12.5' SEG., 37.5' GAP
4. MARKING LINE GROOVED WET REFLECTIVE EPOXY 6-INCH, WHITE
5. MARKING LINE GROOVED WET REFLECTIVE EPOXY 6-INCH, YELLOW
6. MARKING LINE GROOVED WET REFLECTIVE EPOXY 6-INCH, WHITE, 3' SEG, 9' GAP
7. MARKING LINE GROOVED WET REFLECTIVE EPOXY 10-INCH, WHITE, 3' SEG., 9' GAP
8. MARKING LINE GROOVED WET REFLECTIVE EPOXY 10-INCH, WHITE
9. MARKING STOP LINE EPOXY 18-INCH, WHITE
10. MARKING WORD EPOXY
11. MARKING ARROW EPOXY, TYPE 2
12. MARKING ARROW EPOXY, TYPE 4
13. MARKING CURB EPOXY, YELLOW
14. MARKING ISLAND NOSE EPOXY, YELLOW
15. MARKING CORRUGATED MEDIAN EPOXY
16. MARKING CHEVRON EPOXY 24-INCH, WHITE
17. MARKING DIAGONAL EPOXY 12-INCH, YELLOW
18. MARKING DIAGONAL EPOXY 12-INCH, WHITE

SINGLE DELINEATOR WHITE/RIGHT YELLOW/LEFT

DOUBLE DELINEATOR WHITE/RIGHT YELLOW/LEFT

PROJECT NO: 2310-09-71	HWY: STH 60	COUNTY: WASHINGTON	PAVEMENT MARKING	SHEET 101	E

FILE NAME : K:\195704_STH 60 AND IH 41 INTERSECTION\3.0 DELIVERABLES\3.02 ROADWAY\AUTOCAD\SHEETS\024501-PM.DWG
LAYOUT NAME - 06

PLOT DATE : 10/16/2025 1:50 PM PLOT BY : OLSEN, CASSIE PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

2

N

MATCH LINE 356+50

MATCH LINE 362+50

MARKING LINE GROOVED WET REFLECTIVE EPOXY, 10-INCH, WHITE
MARKING LINE GROOVED BLACK EPOXY, 10-INCH
3' SEG., 3' BLACK LAG, 6' SKIP

+68.96, -18.23' LT

+20.17, -6.50' LT

R/L STH 60

+02.95, 4.35' RT

STH 60

+13.45, 29.84' RT

+53.97, 27.43' RT

+20 , 32.00' RT

+47.19 'E', -16.00' LT

RAMP E (NB OFF-RAMP)

16'

R/L RAMP 'E'

12'

12'

12'

12'

357+00 358+00 359+00 360+00 361+00 362+00

POST MP MP MP POST

EL EL

LEGEND

1	MARKING LINE GROOVED WET REFLECTIVE EPOXY 6-INCH, WHITE, 12.5' SEG., 12.5' BLACK LAG, 25' GAP	11	MARKING ARROW EPOXY, TYPE 2
2	MARKING LINE GROOVED BLACK EPOXY 6-INCH, 12.5' SEG., 12.5' BLACK LAG, 25' GAP	12	MARKING ARROW EPOXY, TYPE 4
3	MARKING LINE GROOVED WET REFLECTIVE EPOXY 6-INCH, YELLOW, 12.5' SEG., 37.5' GAP	13	MARKING CURB EPOXY, YELLOW
4	MARKING LINE GROOVED WET REFLECTIVE EPOXY 6-INCH, WHITE	14	MARKING ISLAND NOSE EPOXY, YELLOW
5	MARKING LINE GROOVED WET REFLECTIVE EPOXY 6-INCH, YELLOW	15	MARKING CORRUGATED MEDIAN EPOXY
6	MARKING LINE GROOVED WET REFLECTIVE EPOXY 6-INCH, WHITE, 3' SEG, 9' GAP	16	MARKING CHEVRON EPOXY 24-INCH, WHITE
7	MARKING LINE GROOVED WET REFLECTIVE EPOXY 10-INCH, WHITE, 3' SEG., 9' GAP	17	MARKING DIAGONAL EPOXY 12-INCH, YELLOW
8	MARKING LINE GROOVED WET REFLECTIVE EPOXY 10-INCH, WHITE	18	MARKING DIAGONAL EPOXY 12-INCH, WHITE
9	MARKING STOP LINE EPOXY 18-INCH, WHITE		SINGLE DELINEATOR WHITE/RIGHT YELLOW/LEFT
10	MARKING WORD EPOXY		DOUBLE DELINEATOR WHITE/RIGHT YELLOW/LEFT

PROJECT NO: 2310-09-71	HWY: STH 60	COUNTY: WASHINGTON	PAVEMENT MARKING	SHEET 102	E

2

N

MATCH LINE 362+50

GUY
GUY
GUY
MP
POST
MP
MP
MP

MARKING LINE GROOVED WET REFLECTIVE EPOXY, 10-INCH, WHITE
MARKING LINE GROOVED BLACK EPOXY, 10-INCH
3' SEG., 3' BLACK LAG, 6' SKIP

5 4 11 10 1 2

+80.35 , -41.09' LT
+26.97 , -29.63' LT
+98.66 , -49.41' LT
+99.18 , -29.83' LT
+99.50 , -17.83' LT

12'
12'
4'

FL

363+00 364+00 365+00 366+00 367+00 368+00

+82.40 , -16.70' LT

END PROJECT
STA 367+13

+80.14 , 13.66' RT

R/L STH 60

4'
12'
12'

STH 60

+00.96 , 36.52' RT
+01.28 , 48.55' RT
+01.61 , 60.59' RT

+73.84 , 37.48' RT
+32.27, 40.27' RT

1 2 4 5

POST

IP
POST

LEGEND

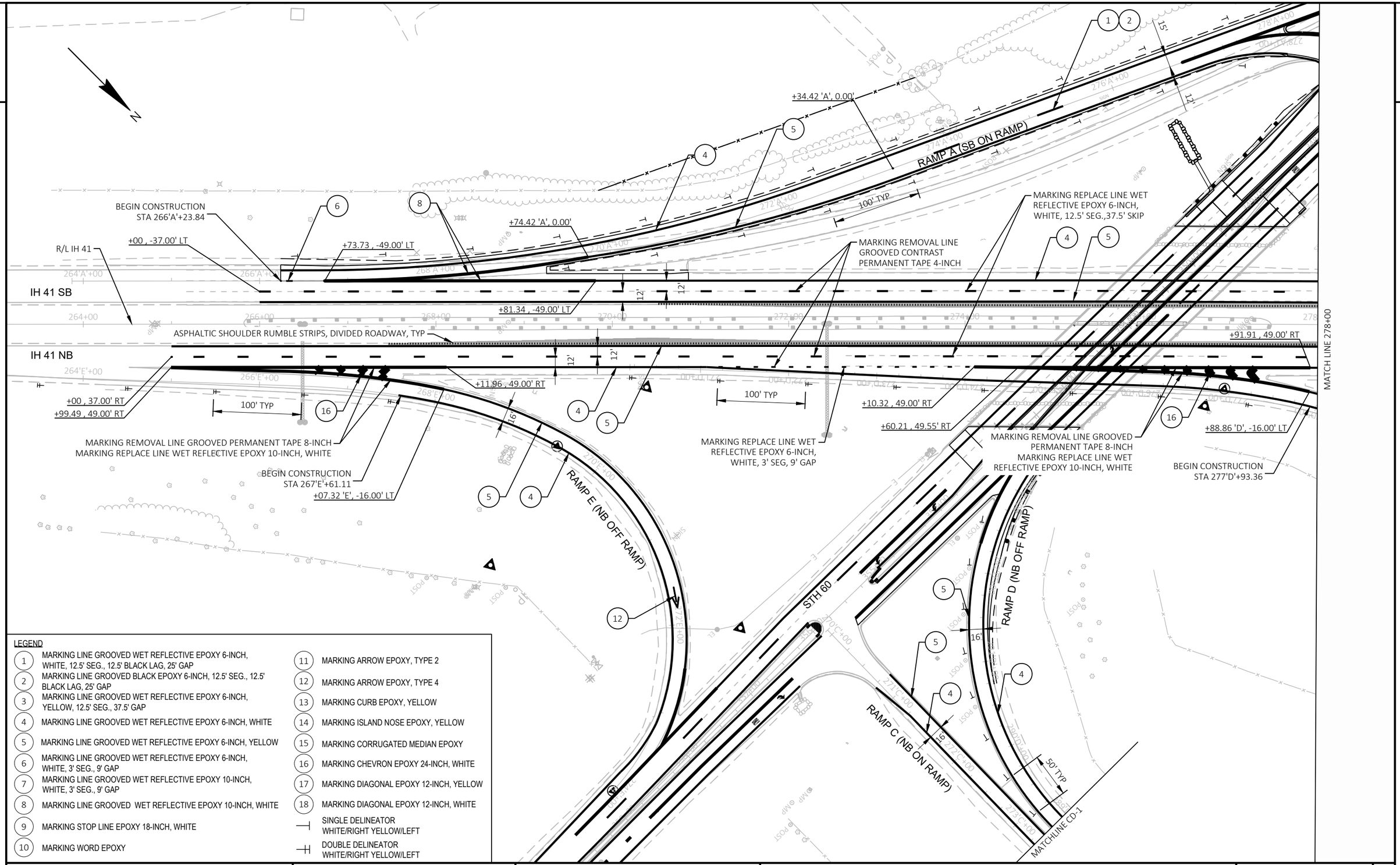
1	MARKING LINE GROOVED WET REFLECTIVE EPOXY 6-INCH, WHITE, 12.5' SEG., 12.5' BLACK LAG, 25' GAP	11	MARKING ARROW EPOXY, TYPE 2
2	MARKING LINE GROOVED BLACK EPOXY 6-INCH, 12.5' SEG., 12.5' BLACK LAG, 25' GAP	12	MARKING ARROW EPOXY, TYPE 4
3	MARKING LINE GROOVED WET REFLECTIVE EPOXY 6-INCH, YELLOW, 12.5' SEG., 37.5' GAP	13	MARKING CURB EPOXY, YELLOW
4	MARKING LINE GROOVED WET REFLECTIVE EPOXY 6-INCH, WHITE	14	MARKING ISLAND NOSE EPOXY, YELLOW
5	MARKING LINE GROOVED WET REFLECTIVE EPOXY 6-INCH, YELLOW	15	MARKING CORRUGATED MEDIAN EPOXY
6	MARKING LINE GROOVED WET REFLECTIVE EPOXY 6-INCH, WHITE, 3' SEG, 9' GAP	16	MARKING CHEVRON EPOXY 24-INCH, WHITE
7	MARKING LINE GROOVED WET REFLECTIVE EPOXY 10-INCH, WHITE, 3' SEG., 9' GAP	17	MARKING DIAGONAL EPOXY 12-INCH, YELLOW
8	MARKING LINE GROOVED WET REFLECTIVE EPOXY 10-INCH, WHITE	18	MARKING DIAGONAL EPOXY 12-INCH, WHITE
9	MARKING STOP LINE EPOXY 18-INCH, WHITE		SINGLE DELINEATOR WHITE/RIGHT YELLOW/LEFT
10	MARKING WORD EPOXY		DOUBLE DELINEATOR WHITE/RIGHT YELLOW/LEFT

PROJECT NO: 2310-09-71	HWY: STH 60	COUNTY: WASHINGTON	PAVEMENT MARKING	SHEET 103	E

FILE NAME : K:\195704_STH 60 AND IH 41 INTERSECTION\3.0 DELIVERABLES\3.02 ROADWAY\AUTOCAD\SHEETS\024501-PM.DWG
LAYOUT NAME - 08

PLOT DATE : 10/16/2025 1:51 PM PLOT BY : OLSEN, CASSIE PLOT NAME : PLOT SCALE : 1 IN:40 FT

2



LEGEND

1. MARKING LINE GROOVED WET REFLECTIVE EPOXY 6-INCH, WHITE, 12.5' SEG., 12.5' BLACK LAG, 25' GAP
2. MARKING LINE GROOVED BLACK EPOXY 6-INCH, 12.5' SEG., 12.5' BLACK LAG, 25' GAP
3. MARKING LINE GROOVED WET REFLECTIVE EPOXY 6-INCH, YELLOW, 12.5' SEG., 37.5' GAP
4. MARKING LINE GROOVED WET REFLECTIVE EPOXY 6-INCH, WHITE
5. MARKING LINE GROOVED WET REFLECTIVE EPOXY 6-INCH, YELLOW
6. MARKING LINE GROOVED WET REFLECTIVE EPOXY 6-INCH, WHITE, 3' SEG., 9' GAP
7. MARKING LINE GROOVED WET REFLECTIVE EPOXY 10-INCH, WHITE, 3' SEG., 9' GAP
8. MARKING LINE GROOVED WET REFLECTIVE EPOXY 10-INCH, WHITE
9. MARKING STOP LINE EPOXY 18-INCH, WHITE
10. MARKING WORD EPOXY
11. MARKING ARROW EPOXY, TYPE 2
12. MARKING ARROW EPOXY, TYPE 4
13. MARKING CURB EPOXY, YELLOW
14. MARKING ISLAND NOSE EPOXY, YELLOW
15. MARKING CORRUGATED MEDIAN EPOXY
16. MARKING CHEVRON EPOXY 24-INCH, WHITE
17. MARKING DIAGONAL EPOXY 12-INCH, YELLOW
18. MARKING DIAGONAL EPOXY 12-INCH, WHITE

SINGLE DELINEATOR WHITE/RIGHT YELLOW/LEFT

DOUBLE DELINEATOR WHITE/RIGHT YELLOW/LEFT

PROJECT NO: 2310-09-71	HWY: STH 60	COUNTY: WASHINGTON	PAVEMENT MARKING - IH 41 & RAMPS	SHEET 104	E

FILE NAME : K:\195704_STH 60 AND IH 41 INTERSECTION\3.0 DELIVERABLES\3.02 ROADWAY\AUTOCAD\SHEETS\024510-PM.DWG
LAYOUT NAME - 10
PLOT DATE : 10/16/2025 1:53 PM
PLOT BY : OLSEN, CASSIE
PLOT NAME :
PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 42

2

LEGEND

1. MARKING LINE GROOVED WET REFLECTIVE EPOXY 6-INCH, WHITE, 12.5' SEG., 12.5' BLACK LAG, 25' GAP
2. MARKING LINE GROOVED BLACK EPOXY 6-INCH, 12.5' SEG., 12.5' BLACK LAG, 25' GAP
3. MARKING LINE GROOVED WET REFLECTIVE EPOXY 6-INCH, YELLOW, 12.5' SEG., 37.5' GAP
4. MARKING LINE GROOVED WET REFLECTIVE EPOXY 6-INCH, WHITE
5. MARKING LINE GROOVED WET REFLECTIVE EPOXY 6-INCH, YELLOW
6. MARKING LINE GROOVED WET REFLECTIVE EPOXY 6-INCH, WHITE, 3' SEG., 9' GAP
7. MARKING LINE GROOVED WET REFLECTIVE EPOXY 10-INCH, WHITE, 3' SEG., 9' GAP
8. MARKING LINE GROOVED WET REFLECTIVE EPOXY 10-INCH, WHITE
9. MARKING STOP LINE EPOXY 18-INCH, WHITE
10. MARKING WORD EPOXY
11. MARKING ARROW EPOXY, TYPE 2
12. MARKING ARROW EPOXY, TYPE 4
13. MARKING CURB EPOXY, YELLOW
14. MARKING ISLAND NOSE EPOXY, YELLOW
15. MARKING CORRUGATED MEDIAN EPOXY
16. MARKING CHEVRON EPOXY 24-INCH, WHITE
17. MARKING DIAGONAL EPOXY 12-INCH, YELLOW
18. MARKING DIAGONAL EPOXY 12-INCH, WHITE

SINGLE DELINEATOR WHITE/RIGHT YELLOW/LEFT

DOUBLE DELINEATOR WHITE/RIGHT YELLOW/LEFT

STH 60

RAMP B (SB OFF RAMP)

100' TYP

16'

END CONSTRUCTION
STA 282'B'+60

MARKING REMOVAL LINE GROOVED PERMANENT TAPE 8-INCH
MARKING REPLACE LINE WET REFLECTIVE EPOXY 10-INCH, WHITE

+10.40 'B', 16.00' RT

+17.19 , -49.00' LT

+03.85 , -49.00' LT

+00 , -37.00' LT

IH 41 SB

12'

ASPHALTIC SHOULDER RUMBLE STRIPS, DIVIDED ROADWAY, TYP

MATCH LINE 278+00

+94.10 , 49.00' RT

+63.42 , 49.00' RT

+00 , 37.00' RT

IH 41 NB

+11.67 'C', -16.00' LT

MARKING REMOVAL LINE GROOVED CONTRAST PERMANENT TAPE 4-INCH MARKING REPLACE LINE WET REFLECTIVE EPOXY 6-INCH, WHITE, 12.5' SEG.,37.5' SKIP

R/L IH 41

50' TYP

END CONSTRUCTION
STA 287'C'+55.15

MARKING REMOVAL LINE GROOVED PERMANENT TAPE 8-INCH MARKING REPLACE LINE WET REFLECTIVE EPOXY 10-INCH, WHITE

RAMP D (NB OFF RAMP)

RAMP C (NB ON RAMP)

MATCHLINE CD-1

MATCHLINE CD-2

PROJECT NO: 2310-09-71	HWY: STH 60	COUNTY: WASHINGTON	PAVEMENT MARKING - IH 41 & RAMPS	SHEET 105	E

FILE NAME : K:\195704_STH 60 AND IH 41 INTERSECTION\3.0 DELIVERABLES\3.02 ROADWAY\AUTOCAD\SHEETS\024510-PM.DWG
LAYOUT NAME - 11
PLOT DATE : 10/16/2025 1:55 PM
PLOT BY : OLSEN, CASSIE
PLOT NAME :
PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 42

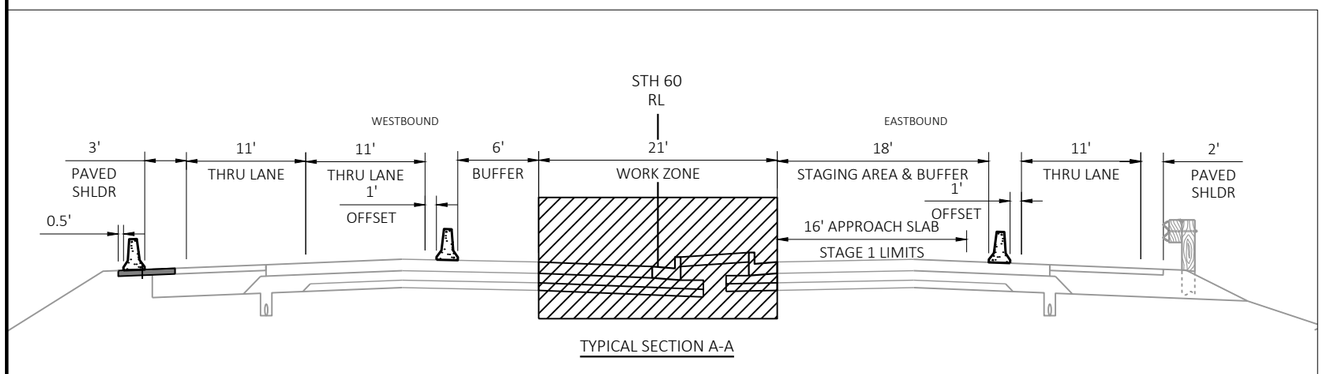
2

LEGEND

- OPEN TO TRAFFIC
- CLOSED TO TRAFFIC
- WORK ZONE (DAY AND NIGHT)
- WORK ZONE (NIGHT WORK ONLY)
- NEW WORK THIS STAGE

N

RAMP A
RAMP B
RAMP C
RAMP D
RAMP E
IH 41 NB
IH 41 SB
STH 60
B-66-103
280'C'
285'C'
285'B'
285'D'
280'D'
290'D'
275'C'
270'C'
270'E'
265'E'
550'AX'
555'AX'
560'AX'
565'AX'
570'AX'
265'A'
340
345
350
355
360
365
A
A



TYPICAL SECTION A-A

PRE-CONSTRUCTION

A PRE-STAGE WILL BE NEEDED TO MILL EXISTING CONCRETE CORRUGATED MEDIANS IN STH 60 SHOULDERS AT RAMP A AND RAMP D, AND TO WIDEN WB STH 60 PAVED SHOULDER BETWEEN RAMP B AND B-66-103. ALSO FOR WIDENING IH 41 INSIDE SHOULDER FOR CONCRETE BARRIER PLACEMENT.

CONSTRUCTION

WORK IN THIS STAGE CONSISTS OF THE FOLLOWING:

- STH 60 MEDIAN REMOVAL & RECONSTRUCTION.
- PARTIAL CONSTRUCTION OF EASTBOUND STH 60 ROADWAY APPROACH SLABS.
- BRIDGE PIER CONSTRUCTION WITHIN IH 41 MEDIAN.
- BRIDGE DECK CURING & MEDIAN CONSTRUCTION.
- RAMP A RECONSTRUCTION AND REALIGNMENT.
- RAMP B WIDENING AND PORK CHOP ISLAND RECONSTRUCTION.
- TRAFFIC SIGNAL INSTALLATION AT SB RAMP INTERSECTION.
- BRIDGE GIRDER PLACEMENT (NIGHT WORK ONLY).

TRAFFIC CONTROL

- TWO LANES WB AND ONE LANE EB ARE MAINTAINED ON STH 60. TRAFFIC IN BOTH DIRECTION IS PUSHED OUT INTO THE OUTSIDE SHOULDER TO ALLOW SPACE FOR WORK IN THE MEDIAN.
- EB TO NB LEFT TURN LANE CAPACITY IS REDUCED BUT REMAINS OPEN TO TRAFFIC.
- RAMPS A AND B ARE FULLY CLOSED. TRAFFIC WILL BE DETOURED FOR ACCESS TO SB IH 41.
- TWO LANES IN EACH DIRECTION IS MAINTAINED ON IH 41, WITH CLOSED INSIDE SHOULDER FOR WORK IN THE MEDIAN.
- A NIGHTTIME ROLLING CLOSURE ON IH 41 WILL BE IMPLEMENTED DURING GIRDER PLACEMENT.

PROJECT NO: 2310-09-71	HWY: STH 60	COUNTY: WASHINGTON	TRAFFIC CONTROL OVERVIEW - STAGE 1 (DAY & NIGHT WORK)	SHEET 106	E

FILE NAME : K:\195704_STH 60 AND IH 41 INTERSECTION\3.0 DELIVERABLES\3.02 ROADWAY\AUTOCAD\SHEETS\025100-TC-OVERVIEW.DWG
LAYOUT NAME - 01
PLOT DATE : 10/23/2025 2:30 PM
PLOT BY : OLSEN, CASSIE
PLOT NAME :
PLOT SCALE : 1 IN:200 FT
WISDOT/CADDS SHEET 42

2

LEGEND

- OPEN TO TRAFFIC
- CLOSED TO TRAFFIC
- WORK ZONE (DAY AND NIGHT)
- WORK ZONE (NIGHT WORK ONLY)
- ▲ NEW WORK THIS STAGE

N

IH 41 NB

IH 41 SB

RAMP A

RAMP B

RAMP C

RAMP D

RAMP E

STH 60

290'C'

285'C'

280'C'

275'C'

270'C'

280'D'

290'D'

285'B'

280'B'

550'AX'

555'AX'

560'AX'

565'AX'

570'AX'

265'A'

270'E'

265'E'

340

345

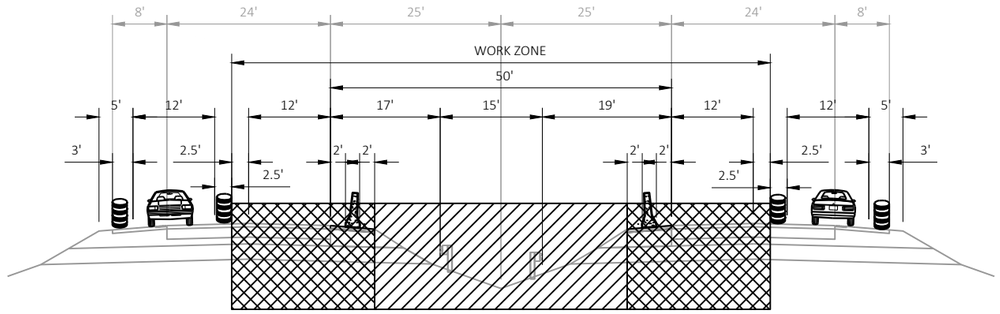
350

355

360

365

TYPICAL SECTION A–A



CONSTRUCTION

WORK IN THIS STAGE CONSISTS OF THE FOLLOWING:

- STH 60 MEDIAN REMOVAL & RECONSTRUCTION.
- PARTIAL CONSTRUCTION OF EASTBOUND STH 60 ROADWAY APPROACH SLABS (DURING DECK CURING PERIOD).
- BRIDGE PIER CONSTRUCTION WITHIN IH 41 MEDIAN.
- BRIDGE DECK CURING & MEDIAN CONSTRUCTION.
- RAMP A RECONSTRUCTION AND REALIGNMENT.
- RAMP B WIDENING AND PORK CHOP ISLAND RECONSTRUCTION.
- TRAFFIC SIGNAL INSTALLATION AT SB RAMP INTERSECTION.
- ▲ BRIDGE CONSTRUCTION ABOVE IH 41 MEDIAN AND INSIDE LANES, INCLUDING DECK REMOVAL, DIAPHRAGM INSTALLATION, DECK FORMWORK, AND DECK POUR (NIGHT WORK ONLY).

TRAFFIC CONTROL

- AT LEAST ONE LANE IN EACH DIRECTION IS MAINTAINED ON STH 60. TRAFFIC IN BOTH DIRECTIONS IS PUSHED OUT INTO THE OUTSIDE SHOULDER TO ALLOW SPACE FOR WORK IN THE MEDIAN.
- EB TO NB LEFT TURN LANE CAPACITY IS REDUCED BUT REMAINS OPEN TO TRAFFIC.
- RAMPS A AND B ARE FULLY CLOSED. TRAFFIC WILL BE DETOURED FOR ACCESS TO SB IH 41.
- NIGHT TIME FULL CLOSURE OF RAMPS D & E.
- NIGHT TIME SINGLE LANE CLOSURE ON IH 41, WITH CLOSED INSIDE LANE AND SHOULDER, AND TRAFFIC PUSHED OUT INTO THE OUTSIDE SHOULDER TO ALLOW FOR WORK ZONE OVERLAP BETWEEN STAGES 1N1 AND 1N2.

PROJECT NO: 2310-09-71	HWY: STH 60	COUNTY: WASHINGTON	TRAFFIC CONTROL OVERVIEW - STAGE 1N1 (NIGHT WORK ONLY)	SHEET 107	E

FILE NAME : K:\195704_STH 60 AND IH 41 INTERSECTION\3.0 DELIVERABLES\3.02 ROADWAY\AUTOCAD\SHEETS\025100-TC-OVERVIEW.DWG
LAYOUT NAME - 01N1
PLOT DATE : 10/23/2025 2:31 PM
PLOT BY : OLSEN, CASSIE
PLOT NAME :
PLOT SCALE : 1 IN:200 FT
WISDOT/CADDS SHEET 42

2

LEGEND

- OPEN TO TRAFFIC
- CLOSED TO TRAFFIC
- WORK ZONE (DAY AND NIGHT)
- WORK ZONE (NIGHT WORK ONLY)
- ▲ NEW WORK THIS STAGE

N

RAMP A

RAMP B

RAMP C

RAMP D

RAMP E

STH 60

340

345

350

355

360

365

290'C'

285'C'

280'C'

275'C'

270'C'

285'B'

280'B'

280'D'

290'D'

270'E'

550'AX'

535'AX'

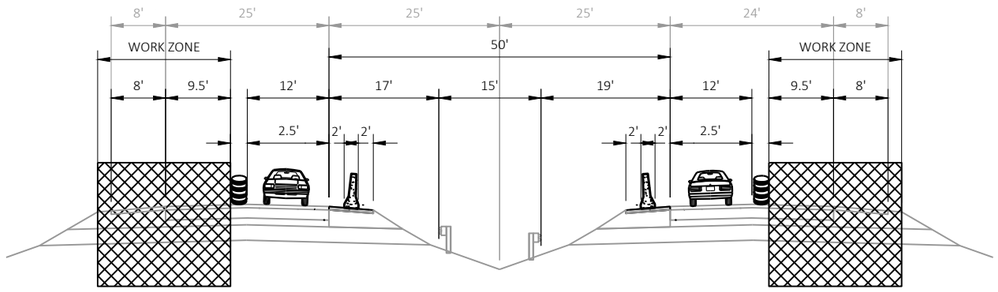
560'AX'

575'AX'

570'AX'

565'AX'

TYPICAL SECTION A–A



CONSTRUCTION

WORK IN THIS STAGE CONSISTS OF THE FOLLOWING:

- STH 60 MEDIAN REMOVAL & RECONSTRUCTION.
- PARTIAL CONSTRUCTION OF EASTBOUND STH 60 ROADWAY APPROACH SLABS (DURING DECK CURING PERIOD).
- BRIDGE PIER CONSTRUCTION WITHIN IH 41 MEDIAN.
- BRIDGE DECK CURING & MEDIAN CONSTRUCTION.
- RAMP A RECONSTRUCTION AND REALIGNMENT.
- RAMP B WIDENING AND PORK CHOP ISLAND RECONSTRUCTION.
- TRAFFIC SIGNAL INSTALLATION AT SB RAMP INTERSECTION.
- ▲ PAVING OF IH 41 SB RAMP GORE (NIGHT WORK ONLY).
- ▲ BRIDGE CONSTRUCTION ABOVE IH 41 OUTSIDE LANES, INCLUDING DECK REMOVAL, DIAPHRAGM INSTALLATION, DECK FORMWORK, AND DECK POUR (NIGHT WORK ONLY).

TRAFFIC CONTROL

- AT LEAST ONE LANE IN EACH DIRECTION IS MAINTAINED ON STH 60. TRAFFIC IN BOTH DIRECTIONS IS PUSHED OUT INTO THE OUTSIDE SHOULDER TO ALLOW SPACE FOR WORK IN THE MEDIAN.
- EB TO NB LEFT TURN LANE CAPACITY IS REDUCED BUT REMAINS OPEN TO TRAFFIC.
- RAMPS A AND B REMAIN FULLY CLOSED. TRAFFIC WILL BE DETOURED FOR ACCESS TO SB IH 41.
- NIGHT TIME FULL CLOSURE OF RAMP D.
- NIGHT TIME SINGLE LANE CLOSURE ON IH 41, WITH CLOSED OUTSIDE LANE AND SHOULDER.

PROJECT NO: 2310-09-71	HWY: STH 60	COUNTY: WASHINGTON	TRAFFIC CONTROL OVERVIEW - STAGE 1N2 (NIGHT WORK ONLY)	SHEET 108	E

FILE NAME : K:\195704_STH 60 AND IH 41 INTERSECTION\3.0 DELIVERABLES\3.02 ROADWAY\AUTOCAD\SHEETS\025100-TC-OVERVIEW.DWG
LAYOUT NAME - 01N2
PLOT DATE : 10/23/2025 2:32 PM
PLOT BY : OLSEN, CASSIE
PLOT NAME :
PLOT SCALE : 1 IN:200 FT
WISDOT/CADDS SHEET 42

2

LEGEND

- OPEN TO TRAFFIC
- CLOSED TO TRAFFIC
- WORK ZONE (DAY AND NIGHT)
- WORK ZONE (NIGHT WORK ONLY)
- ▲ NEW WORK THIS STAGE

N

RAMP D

RAMP C

RAMP E

IH 41 NB

IH 41 SB

STH 60

340

345

350

355

360

365

550'AX'

555'AX'

560'AX'

565'AX'

570'AX'

280'C'

285'C'

275'C'

270'C'

280'D'

285'D'

290'D'

270'E'

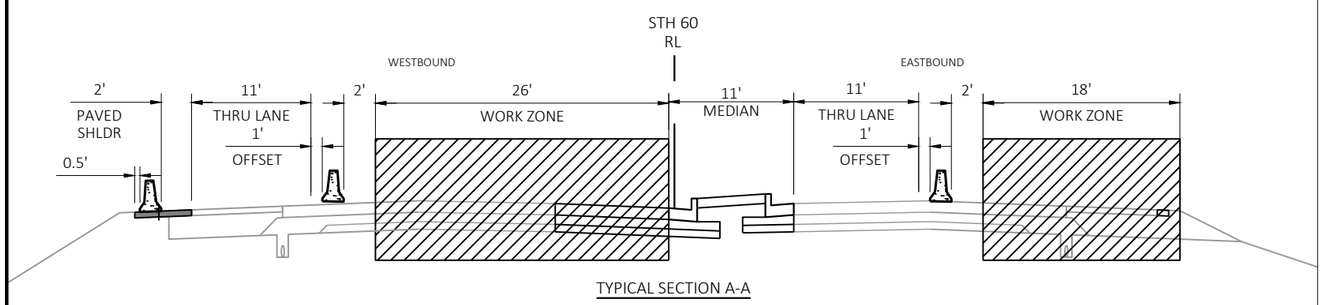
265'E'

275'A'

265'A'

A

A



TYPICAL SECTION A-A

CONSTRUCTION

WORK IN THIS STAGE CONSISTS OF THE FOLLOWING:

- ▲ PARTIAL CONSTRUCTION OF STH 60 ROADWAY APPROACH SLABS.
- ▲ REPLACEMENT OF CONCRETE CORRUGATED SHOULDERS ADJACENT TO RAMPS A AND D.
- ▲ COMPLETION OF RAMP A CONSTRUCTION ADJACENT TO STH 60.
- ▲ GUARDRAIL CONSTRUCTION ALONG STH 60 EASTBOUND.

TRAFFIC CONTROL

- ONE LANE IS MAINTAINED ON EASTBOUND STH 60, WITH TRAFFIC IN THE INSIDE LANE.
- WESTBOUND STH 60 IS FULLY CLOSED WEST OF THE NORTHBOUND IH 41 ON-RAMP. TRAFFIC WILL BE DETOURED FOR ACCESS TO WESTBOUND STH 60 AND SOUTHBOUND IH 41.
- RAMP A IS FULLY CLOSED. TRAFFIC WILL BE DETOURED FOR ACCESS TO SOUTHBOUND IH 41.
- RAMP B LEFT TURN LANE IS CLOSED. TRAFFIC WILL BE DETOURED FOR ACCESS TO EASTBOUND STH 60.
- TWO LANES IN EACH DIRECTION IS MAINTAINED ON IH-41, WITH CLOSED INSIDE SHOULDER.

PROJECT NO: 2310-09-71	HWY: STH 60	COUNTY: WASHINGTON	TRAFFIC CONTROL OVERVIEW - STAGE 2A (DAY & NIGHT WORK)	SHEET 109	E

FILE NAME : K:\195704_STH 60 AND IH 41 INTERSECTION\3.0 DELIVERABLES\3.02 ROADWAY\AUTOCAD\SHEETS\025100-TC-OVERVIEW.DWG
LAYOUT NAME - 02A
PLOT DATE : 10/23/2025 2:34 PM
PLOT BY : OLSEN, CASSIE
PLOT NAME :
PLOT SCALE : 1 IN:200 FT
WISDOT/CADDS SHEET 42

2

LEGEND

- OPEN TO TRAFFIC
- CLOSED TO TRAFFIC
- WORK ZONE (DAY AND NIGHT)
- WORK ZONE (NIGHT WORK ONLY)
- ▲ NEW WORK THIS STAGE

N

RAMP D

RAMP C

RAMP E

IH 41 NB

IH 41 SB

STH 60

340

345

350

355

360

365

550'AX'

555'AX'

560'AX'

565'AX'

570'AX'

265'A'

285'C'

280'C'

275'C'

270'C'

285'B'

280'D'

285'D'

290'D'

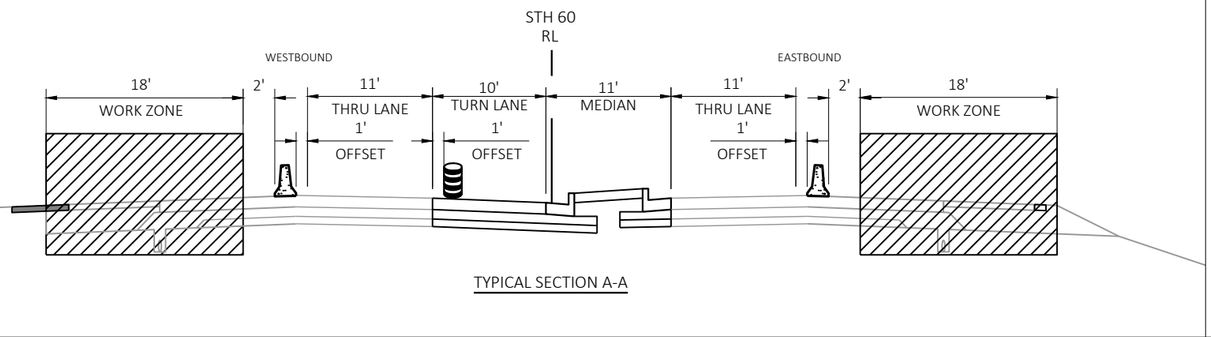
275'D'

270'E'

265'E'

A

A



TYPICAL SECTION A-A

CONSTRUCTION

WORK IN THIS STAGE CONSISTS OF THE FOLLOWING:

- ▲ PARTIAL CONSTRUCTION OF STH 60 ROADWAY APPROACH SLABS.
- ▲ COMPLETION OF RAMP A CONSTRUCTION ADJACENT TO STH 60.
- ▲ GUARDRAIL CONSTRUCTION ALONG RAMP D.

TRAFFIC CONTROL

- ONE LANE IS MAINTAINED ON EASTBOUND STH 60, WITH TRAFFIC IN THE INSIDE LANE.
- WESTBOUND STH 60 IS OPEN TO TRAFFIC.
- RAMP D IS FULLY CLOSED. TRAFFIC WILL BE DETOURED FOR ACCESS TO WESTBOUND STH 60.
- RAMP A IS FULLY CLOSED. TRAFFIC WILL BE DETOURED FOR ACCESS TO SOUTHBOUND IH 41.
- RAMP B LEFT TURN LANE IS CLOSED. TRAFFIC WILL BE DETOURED FOR ACCESS TO EASTBOUND STH 60.
- TWO LANES IN EACH DIRECTION IS MAINTAINED ON IH-41, WITH CLOSED INSIDE SHOULDER.

PROJECT NO: 2310-09-71	HWY: STH 60	COUNTY: WASHINGTON	TRAFFIC CONTROL OVERVIEW - STAGE 2B (DAY & NIGHT WORK)	SHEET 110	E

FILE NAME : K:\195704_STH 60 AND IH 41 INTERSECTION\3.0 DELIVERABLES\3.02 ROADWAY\AUTOCAD\SHEETS\025100-TC-OVERVIEW.DWG
LAYOUT NAME - 02B
PLOT DATE : 10/23/2025 2:37 PM
PLOT BY : OLSEN, CASSIE
PLOT NAME :
PLOT SCALE : 1 IN:200 FT
WISDOT/CADDS SHEET 42

2

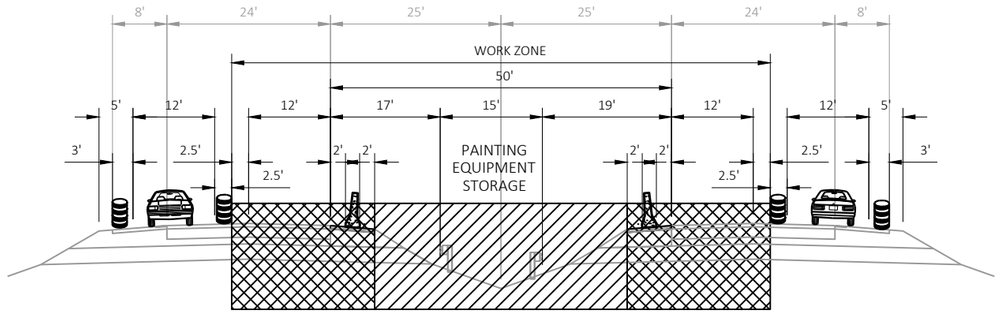
LEGEND

- OPEN TO TRAFFIC
- CLOSED TO TRAFFIC
- WORK ZONE (DAY AND NIGHT)
- WORK ZONE (NIGHT WORK ONLY)
- ▲ NEW WORK THIS STAGE

N

RAMP A
RAMP B
RAMP C
RAMP D
RAMP E
IH 41 NB
IH 41 SB
STH 60 340
345
350
355
360
365
290'C'
285'C'
280'C'
275'C'
270'C'
285'B'
280'B'
280'D'
290'D'
270'E'
265'E'
550'AX'
535'AX'
560'AX'
545'AX'
570'AX'
555'AX'
265'A'
275'A'

TYPICAL SECTION A–A



CONSTRUCTION

WORK IN THIS STAGE CONSISTS OF THE FOLLOWING:

- ▲ MILL AND OVERLAY OF EASTBOUND STH 60 (NIGHT WORK ONLY).
- ▲ MILL AND OVERLAY RAMP E (NIGHT WORK ONLY).
- ▲ EASTBOUND STH 60, RAMP A, & RAMP E PAVEMENT STRIPING (NIGHT WORK ONLY).
- ▲ BRIDGE GIRDER PAINTING ABOVE IH 41 MEDIAN AND INSIDE LANES (NIGHT WORK ONLY).
- ▲ IH 41 MEDIAN BULLNOSE REPLACEMENT AND RESTORATION (AFTER PAINTING ABOVE MEDIAN AND INSIDE LANES IS COMPLETE).

TRAFFIC CONTROL

- NIGHTTIME FULL CLOSURE OF EASTBOUND STH 60.
- NIGHT TIME FULL CLOSURE OF RAMPS A, B, D, & E.
- NIGHT TIME SINGLE LANE CLOSURE ON IH 41, WITH CLOSED INSIDE LANE AND SHOULDER, AND TRAFFIC PUSHED OUT INTO THE OUTSIDE SHOULDER TO ALLOW FOR WORK ZONE OVERLAP BETWEEN STAGE 3N1 AND STAGE 3N2.

PROJECT NO: 2310-09-71	HWY: STH 60	COUNTY: WASHINGTON	TRAFFIC CONTROL OVERVIEW - STAGE 3N1 (NIGHT WORK ONLY)	SHEET 111	E

FILE NAME : K:\195704_STH 60 AND IH 41 INTERSECTION\3.0 DELIVERABLES\3.02 ROADWAY\AUTOCAD\SHEETS\025100-TC-OVERVIEW.DWG
LAYOUT NAME - 03N1
PLOT DATE : 10/23/2025 2:38 PM
PLOT BY : OLSEN, CASSIE
PLOT NAME :
PLOT SCALE : 1 IN:200 FT
WISDOT/CADDS SHEET 42

2

LEGEND

- OPEN TO TRAFFIC
- CLOSED TO TRAFFIC
- WORK ZONE (DAY AND NIGHT)
- WORK ZONE (NIGHT WORK ONLY)
- ▲ NEW WORK THIS STAGE

N

IH 41 NB

IH 41 SB

RAMP B

RAMP C

RAMP D

RAMP E

RAMP A

STH 60 340

345

350

355

360

365

290'C'

285'C'

280'C'

280'D'

290'D'

215'C'

285'B'

285'B'

550'AX'

555'AX'

280'A'

560'AX'

270'A'

265'AX'

270'E'

570'AX'

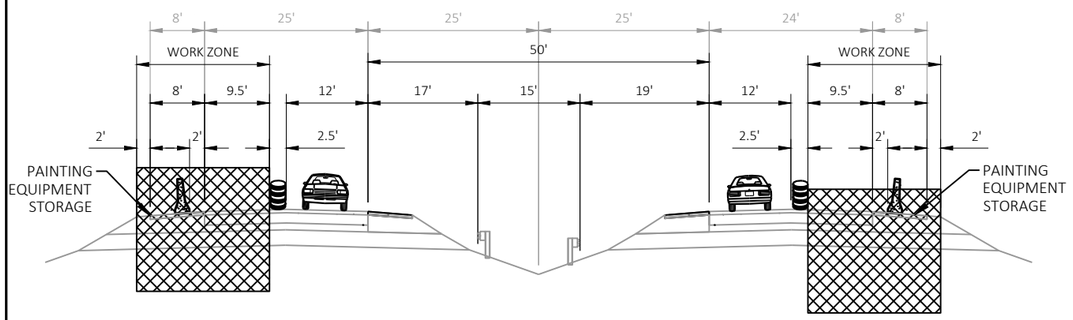
265'E'

265'A'

A

A

TYPICAL SECTION A–A



CONSTRUCTION

WORK IN THIS STAGE CONSISTS OF THE FOLLOWING:

- ▲ MILL AND OVERLAY OF WESTBOUND STH 60.
- ▲ MILL AND OVERLAY RAMPS C & D.
- ▲ APPLICATION OF HIGH FRICTION SURFACE TREATMENT ON STH 60 WESTBOUND AND RAMP D.
- ▲ STH 60 WESTBOUND AND RAMPS B, C, & D PAVEMENT STRIPING.
- ▲ BRIDGE GIRDER PAINTING ABOVE IH 41 OUTSIDE LANES, SHOULDERS, AND RAMP TAPER.

TRAFFIC CONTROL

- NIGHT TIME FULL CLOSURE OF WESTBOUND STH 60.
- NIGHT TIME FULL CLOSURE OF RAMPS B, C, & D.
- NIGHT TIME SINGLE LANE CLOSURE ON IH 41, WITH CLOSED OUTSIDE LANE AND SHOULDER.

PROJECT NO: 2310-09-71	HWY: STH 60	COUNTY: WASHINGTON	TRAFFIC CONTROL OVERVIEW - STAGE 3N2 (NIGHT WORK ONLY)	SHEET 112	E

FILE NAME : K:\195704_STH 60 AND IH 41 INTERSECTION\3.0 DELIVERABLES\3.02 ROADWAY\AUTOCAD\SHEETS\025100-TC-OVERVIEW.DWG
LAYOUT NAME - 03N2

PLOT DATE : 10/23/2025 2:39 PM PLOT BY : OLSEN, CASSIE PLOT NAME : PLOT SCALE : 1 IN:200 FT

WISDOT/CADDS SHEET 42

2

2

N

G20-2A
48"X24"
END
ROAD WORK

STH 60

310 312 314 316 318 320 322

MATCHLINE 323+00

ROAD
WORK
AHEAD
W20-1A

ENTERPRISE DR

RIGHT LANE
CLOSED
AHEAD
W20-5A

W04-2R

LEGEND

TYPE II / III BARRICADE	PORTABLE TRAFFIC SENSOR (PTS)
TYPE II / III BARRICADE WTH ATTACHED SIGN	DIRECTION OF TRAFFIC
TRAFFIC CONTROL DRUM	CONCRETE BARRIER TEMPORARY PRECAST
TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT	WORK ZONE (NIGHT WORK ONLY)
FLASHING ARROW BOARD	WORK ZONE (DAY & NIGHT WORK)
SIGN ON PERMANENT SUPPORT	MARKING REMOVAL LINE
SIGN ON TEMPORARY SUPPORT	TEMPORARY MARKING ARROW REMOVABLE TAPE
TYPE A WARNING LIGHT (FLASHING)	TEMPORARY MARKING WORD REMOVABLE TAPE
TYPE B WARNING LIGHT (HIGH INTENSITY FLASHING)	TEMPORARY MARKING LINE REMOVABLE TAPE 6-INCH (WHITE)
TYPE C WARNING LIGHT (STEADY BURN)	TEMPORARY MARKING LINE REMOVABLE TAPE 6-INCH (WHITE DASH 12.5' LINE 27.5' GAP)
PORTABLE CHANGEABLE MESSAGE BOARD	TEMPORARY MARKING LINE REMOVABLE TAPE 6-INCH (YELLOW)
TEMPORARY CRASH CUSHION	TEMPORARY MARKING LINE REMOVABLE TAPE 10-INCH (WHITE)
FLASHING BEACON SIGN	TEMPORARY MARKING LINE REMOVABLE TAPE 10-INCH (WHITE SKIP 3' LINE 9' GAP)
CONNECTED ARROW BOARD	

CONSTRUCTION

WORK IN THIS STAGE CONSISTS OF THE FOLLOWING:

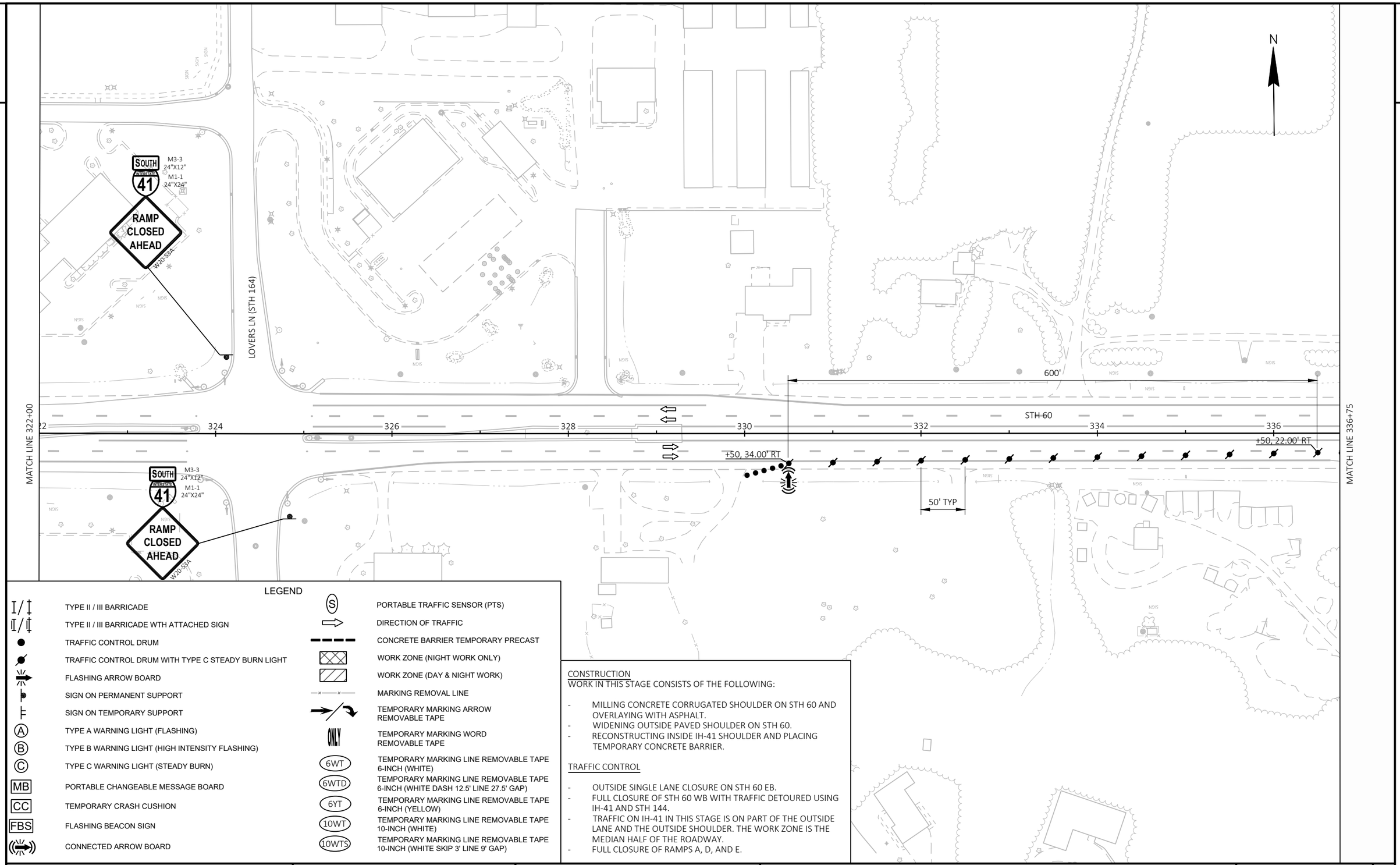
- MILLING CONCRETE CORRUGATED SHOULDER ON STH 60 AND OVERLAYING WITH ASPHALT.
- WIDENING OUTSIDE PAVED SHOULDER ON STH 60.
- RECONSTRUCTING INSIDE IH-41 SHOULDER AND PLACING TEMPORARY CONCRETE BARRIER.

TRAFFIC CONTROL

- OUTSIDE SINGLE LANE CLOSURE ON STH 60 EB.
- FULL CLOSURE OF STH 60 WB WITH TRAFFIC DETOURED USING IH-41 AND STH 144.
- TRAFFIC ON IH-41 IN THIS STAGE IS ON PART OF THE OUTSIDE LANE AND THE OUTSIDE SHOULDER. THE WORK ZONE IS THE MEDIAN HALF OF THE ROADWAY.
- FULL CLOSURE OF RAMPS A, D, AND E.

PROJECT NO: 2310-09-71	HWY: STH 60	COUNTY: WASHINGTON	TRAFFIC CONTROL - STH 60 PRE-STAGE (NIGHT WORK ONLY)	SHEET 113	E

2



LEGEND

I/‡	TYPE II / III BARRICADE	(S)	PORTABLE TRAFFIC SENSOR (PTS)
I/‡	TYPE II / III BARRICADE WTH ATTACHED SIGN	⇨	DIRECTION OF TRAFFIC
●	TRAFFIC CONTROL DRUM	▬ ▬ ▬	CONCRETE BARRIER TEMPORARY PRECAST
●	TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT	▨	WORK ZONE (NIGHT WORK ONLY)
	FLASHING ARROW BOARD	▨	WORK ZONE (DAY & NIGHT WORK)
	SIGN ON PERMANENT SUPPORT	—×—×—	MARKING REMOVAL LINE
	SIGN ON TEMPORARY SUPPORT		TEMPORARY MARKING ARROW REMOVABLE TAPE
(A)	TYPE A WARNING LIGHT (FLASHING)	ONLY	TEMPORARY MARKING WORD REMOVABLE TAPE
(B)	TYPE B WARNING LIGHT (HIGH INTENSITY FLASHING)	6WT	TEMPORARY MARKING LINE REMOVABLE TAPE 6-INCH (WHITE)
(C)	TYPE C WARNING LIGHT (STEADY BURN)	6WTD	TEMPORARY MARKING LINE REMOVABLE TAPE 6-INCH (WHITE DASH 12.5' LINE 27.5' GAP)
MB	PORTABLE CHANGEABLE MESSAGE BOARD	6YT	TEMPORARY MARKING LINE REMOVABLE TAPE 6-INCH (YELLOW)
CC	TEMPORARY CRASH CUSHION	10WT	TEMPORARY MARKING LINE REMOVABLE TAPE 10-INCH (WHITE)
FBS	FLASHING BEACON SIGN	10WTS	TEMPORARY MARKING LINE REMOVABLE TAPE 10-INCH (WHITE SKIP 3' LINE 9' GAP)
	CONNECTED ARROW BOARD		

CONSTRUCTION

WORK IN THIS STAGE CONSISTS OF THE FOLLOWING:

- MILLING CONCRETE CORRUGATED SHOULDER ON STH 60 AND OVERLAYING WITH ASPHALT.
- WIDENING OUTSIDE PAVED SHOULDER ON STH 60.
- RECONSTRUCTING INSIDE IH-41 SHOULDER AND PLACING TEMPORARY CONCRETE BARRIER.

TRAFFIC CONTROL

- OUTSIDE SINGLE LANE CLOSURE ON STH 60 EB.
- FULL CLOSURE OF STH 60 WB WITH TRAFFIC DETOURED USING IH-41 AND STH 144.
- TRAFFIC ON IH-41 IN THIS STAGE IS ON PART OF THE OUTSIDE LANE AND THE OUTSIDE SHOULDER. THE WORK ZONE IS THE MEDIAN HALF OF THE ROADWAY.
- FULL CLOSURE OF RAMPS A, D, AND E.

PROJECT NO: 2310-09-71	HWY: STH 60	COUNTY: WASHINGTON	TRAFFIC CONTROL - STH 60 PRE-STAGE (NIGHT WORK ONLY)	SHEET 114	E

2

LEGEND

- TYPE II / III BARRICADE
- TYPE II / III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- FLASHING ARROW BOARD
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- (A) TYPE A WARNING LIGHT (FLASHING)
- (B) TYPE B WARNING LIGHT (HIGH INTENSITY FLASHING)
- (C) TYPE C WARNING LIGHT (STEADY BURN)
- MB PORTABLE CHANGEABLE MESSAGE BOARD
- CC TEMPORARY CRASH CUSHION
- FBS FLASHING BEACON SIGN
- CONNECTED ARROW BOARD
- (S) PORTABLE TRAFFIC SENSOR (PTS)
- DIRECTION OF TRAFFIC
- CONCRETE BARRIER TEMPORARY PRECAST
- WORK ZONE (NIGHT WORK ONLY)
- WORK ZONE (DAY & NIGHT WORK)
- MARKING REMOVAL LINE
- TEMPORARY MARKING ARROW REMOVABLE TAPE
- ONLY TEMPORARY MARKING WORD REMOVABLE TAPE
- 6WT TEMPORARY MARKING LINE REMOVABLE TAPE 6-INCH (WHITE)
- 6WTD TEMPORARY MARKING LINE REMOVABLE TAPE 6-INCH (WHITE DASH 12.5' LINE 27.5' GAP)
- 6YT TEMPORARY MARKING LINE REMOVABLE TAPE 6-INCH (YELLOW)
- 10WT TEMPORARY MARKING LINE REMOVABLE TAPE 10-INCH (WHITE)
- 10WTS TEMPORARY MARKING LINE REMOVABLE TAPE 10-INCH (WHITE SKIP 3' LINE 9' GAP)

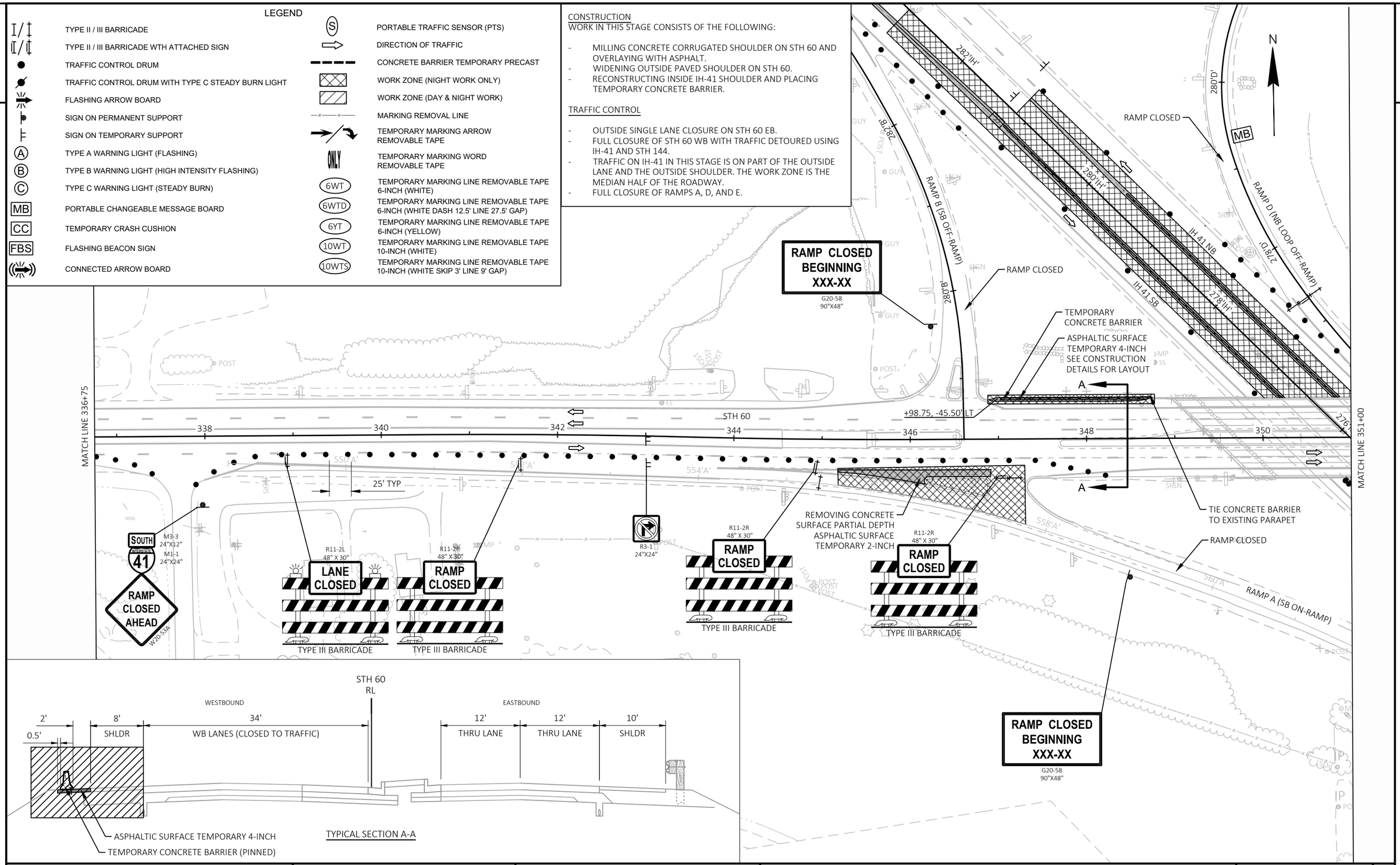
CONSTRUCTION

WORK IN THIS STAGE CONSISTS OF THE FOLLOWING:

- MILLING CONCRETE CORRUGATED SHOULDER ON STH 60 AND OVERLAYING WITH ASPHALT.
- WIDENING OUTSIDE PAVED SHOULDER ON STH 60.
- RECONSTRUCTING INSIDE IH-41 SHOULDER AND PLACING TEMPORARY CONCRETE BARRIER.

TRAFFIC CONTROL

- OUTSIDE SINGLE LANE CLOSURE ON STH 60 EB.
- FULL CLOSURE OF STH 60 WB WITH TRAFFIC DETOURED USING IH-41 AND STH 144.
- TRAFFIC ON IH-41 IN THIS STAGE IS ON PART OF THE OUTSIDE LANE AND THE OUTSIDE SHOULDER. THE WORK ZONE IS THE MEDIAN HALF OF THE ROADWAY.
- FULL CLOSURE OF RAMPS A, D, AND E.



TYPICAL SECTION A-A

PROJECT NO: 2310-09-71	HWY: STH 60	COUNTY: WASHINGTON	TRAFFIC CONTROL - STH 60 PRE-STAGE (NIGHT WORK ONLY)	SHEET 115	E

FILE NAME : K:\195704_STH 60 AND IH 41 INTERSECTION\3.0 DELIVERABLES\3.02 ROADWAY\AUTOCAD\SHEETS\026001-S0.DWG
LAYOUT NAME - 03

PLOT DATE : 10/18/2025 2:50 PM PLOT BY : OLSEN, CASSIE PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

N

RAMP CLOSED

REMOVING CONCRETE SURFACE PARTIAL DEPTH ASPHALTIC SURFACE TEMPORARY 2-INCH

RAMP D (NB LOOP-OFF-RAMP)

288'D'

290'D'

292'D'

274'C'

272'C'

270'C'

RAMP C (NB ENTRANCE RAMP)

M4-9R
30"X24"
DETOUR
TYPE III BARRICADE

R11-2L
48" X 30"
LANE CLOSED
TYPE III BARRICADE

R3-7R
30"X30"
RIGHT LANE MUST TURN RIGHT

ROAD CLOSED 500 FT
W20-3b

25' TYP

600'

+00, -15.00' LT

+00, -15.00' LT

MATCH LINE 351+00

MATCH LINE 365+75

352

354

356

358

360

362

364

274'E'

STH 60

R11-2
48" X 30"
ROAD CLOSED
TYPE III BARRICADE

RAMP E (NB OFF-RAMP)

272'E'

270'E'

RAMP CLOSED

274'D'

274'H'

272'H'

270'H'

IH 41 NB

IH 41 SB

RAMP A (SB ON-RAMP)

562'A'

564'A'

566'A'

POST

SIGN

GUY

MP

IP

EL

CONSTRUCTION

WORK IN THIS STAGE CONSISTS OF THE FOLLOWING:

- MILLING CONCRETE CORRUGATED SHOULDER ON STH 60 AND OVERLAYING WITH ASPHALT.
- WIDENING OUTSIDE PAVED SHOULDER ON STH 60.
- RECONSTRUCTING INSIDE IH-41 SHOULDER AND PLACING TEMPORARY CONCRETE BARRIER.

TRAFFIC CONTROL

- OUTSIDE SINGLE LANE CLOSURE ON STH 60 EB.
- FULL CLOSURE OF STH 60 WB WITH TRAFFIC DETOURED USING IH-41 AND STH 144.
- TRAFFIC ON IH-41 IN THIS STAGE IS ON PART OF THE OUTSIDE LANE AND THE OUTSIDE SHOULDER. THE WORK ZONE IS THE MEDIAN HALF OF THE ROADWAY.
- FULL CLOSURE OF RAMPS A, D, AND E.

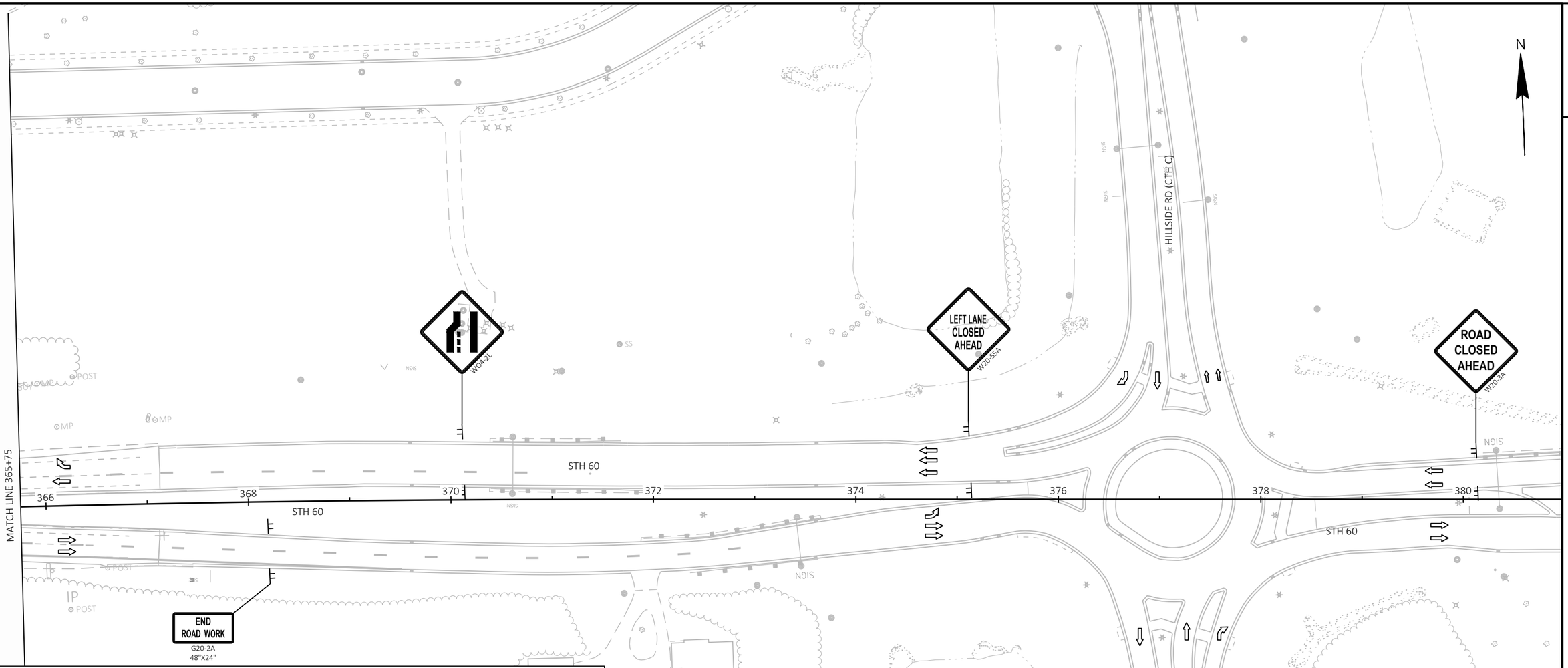
LEGEND

TYPE II / III BARRICADE	PORTABLE TRAFFIC SENSOR (PTS)
TYPE II / III BARRICADE WTH ATTACHED SIGN	DIRECTION OF TRAFFIC
TRAFFIC CONTROL DRUM	CONCRETE BARRIER TEMPORARY PRECAST
TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT	WORK ZONE (NIGHT WORK ONLY)
FLASHING ARROW BOARD	WORK ZONE (DAY & NIGHT WORK)
SIGN ON PERMANENT SUPPORT	MARKING REMOVAL LINE
SIGN ON TEMPORARY SUPPORT	TEMPORARY MARKING ARROW REMOVABLE TAPE
TYPE A WARNING LIGHT (FLASHING)	TEMPORARY MARKING WORD REMOVABLE TAPE
TYPE B WARNING LIGHT (HIGH INTENSITY FLASHING)	
TYPE C WARNING LIGHT (STEADY BURN)	6WT — TEMPORARY MARKING LINE REMOVABLE TAPE 6-INCH (WHITE)
MB — PORTABLE CHANGEABLE MESSAGE BOARD	6WTD — TEMPORARY MARKING LINE REMOVABLE TAPE 6-INCH (WHITE DASH 12.5' LINE 27.5' GAP)
CC — TEMPORARY CRASH CUSHION	6YT — TEMPORARY MARKING LINE REMOVABLE TAPE 6-INCH (YELLOW)
FBS — FLASHING BEACON SIGN	10WT — TEMPORARY MARKING LINE REMOVABLE TAPE 10-INCH (WHITE)
CONNECTED ARROW BOARD	10WTS — TEMPORARY MARKING LINE REMOVABLE TAPE 10-INCH (WHITE SKIP 3' LINE 9' GAP)

PROJECT NO: 2310-09-71	HWY: STH 60	COUNTY: WASHINGTON	TRAFFIC CONTROL - STH 60 PRE-STAGE (NIGHT WORK ONLY)	SHEET 116	E

FILE NAME : K:\195704_STH 60 AND IH 41 INTERSECTION\3.0 DELIVERABLES\3.02 ROADWAY\AUTOCAD\SHEETS\026001-S0.DWG
LAYOUT NAME - 04
PLOT DATE : 10/18/2025 2:51 PM
PLOT BY : OLSEN, CASSIE
PLOT NAME :
PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 42

2



LEGEND

I/I	TYPE II / III BARRICADE	(S)	PORTABLE TRAFFIC SENSOR (PTS)
I/I	TYPE II / III BARRICADE WTH ATTACHED SIGN	⇨	DIRECTION OF TRAFFIC
●	TRAFFIC CONTROL DRUM		CONCRETE BARRIER TEMPORARY PRECAST
	TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT		WORK ZONE (NIGHT WORK ONLY)
	FLASHING ARROW BOARD		WORK ZONE (DAY & NIGHT WORK)
	SIGN ON PERMANENT SUPPORT		MARKING REMOVAL LINE
	SIGN ON TEMPORARY SUPPORT		TEMPORARY MARKING ARROW REMOVABLE TAPE
(A)	TYPE A WARNING LIGHT (FLASHING)	ONLY	TEMPORARY MARKING WORD REMOVABLE TAPE
(B)	TYPE B WARNING LIGHT (HIGH INTENSITY FLASHING)	6WT	TEMPORARY MARKING LINE REMOVABLE TAPE 6-INCH (WHITE)
(C)	TYPE C WARNING LIGHT (STEADY BURN)	6WTD	TEMPORARY MARKING LINE REMOVABLE TAPE 6-INCH (WHITE DASH 12.5' LINE 27.5' GAP)
MB	PORTABLE CHANGEABLE MESSAGE BOARD	6YT	TEMPORARY MARKING LINE REMOVABLE TAPE 6-INCH (YELLOW)
CC	TEMPORARY CRASH CUSHION	10WT	TEMPORARY MARKING LINE REMOVABLE TAPE 10-INCH (WHITE)
FBS	FLASHING BEACON SIGN	10WTS	TEMPORARY MARKING LINE REMOVABLE TAPE 10-INCH (WHITE SKIP 3' LINE 9' GAP)
	CONNECTED ARROW BOARD		

CONSTRUCTION

WORK IN THIS STAGE CONSISTS OF THE FOLLOWING:

- MILLING CONCRETE CORRUGATED SHOULDER ON STH 60 AND OVERLAYING WITH ASPHALT.
- WIDENING OUTSIDE PAVED SHOULDER ON STH 60.
- RECONSTRUCTING INSIDE IH-41 SHOULDER AND PLACING TEMPORARY CONCRETE BARRIER.

TRAFFIC CONTROL

- OUTSIDE SINGLE LANE CLOSURE ON STH 60 EB.
- FULL CLOSURE OF STH 60 WB WITH TRAFFIC DETOURED USING IH-41 AND STH 144.
- TRAFFIC ON IH-41 IN THIS STAGE IS ON PART OF THE OUTSIDE LANE AND THE OUTSIDE SHOULDER. THE WORK ZONE IS THE MEDIAN HALF OF THE ROADWAY.
- FULL CLOSURE OF RAMPS A, D, AND E.

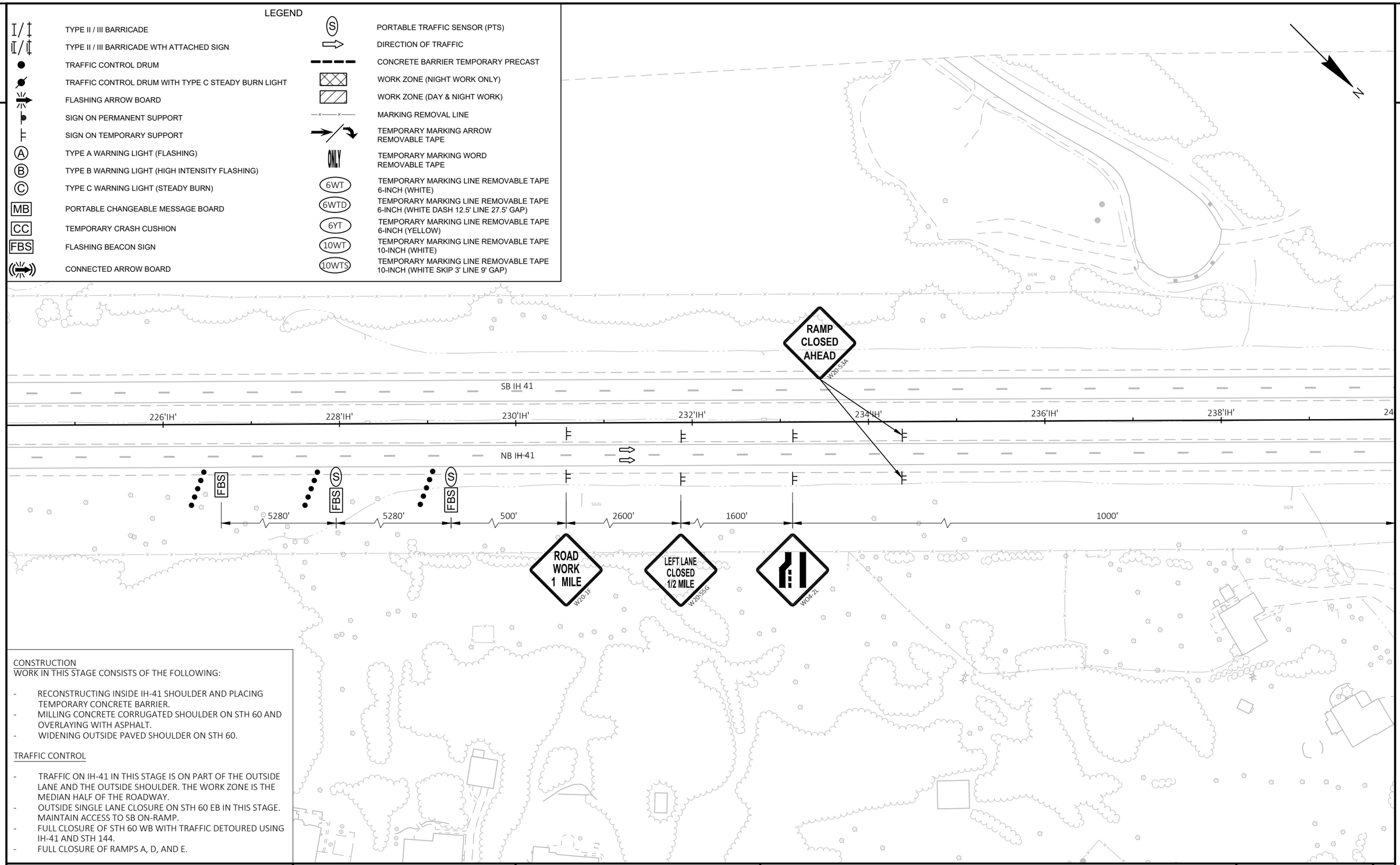
PROJECT NO: 2310-09-71	HWY: STH 60	COUNTY: WASHINGTON	TRAFFIC CONTROL - STH 60 PRE-STAGE (NIGHT WORK ONLY)	SHEET 117	E

FILE NAME : K:\195704_STH 60 AND IH 41 INTERSECTION\3.0 DELIVERABLES\3.02 ROADWAY\AUTOCAD\SHEETS\026001-S0.DWG
LAYOUT NAME - 05
PLOT DATE : 10/18/2025 2:52 PM PLOT BY : OLSEN, CASSIE PLOT NAME : PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 42

2

LEGEND

TYPE II / III BARRICADE	PORTABLE TRAFFIC SENSOR (PTS)
TYPE II / III BARRICADE WTH ATTACHED SIGN	DIRECTION OF TRAFFIC
TRAFFIC CONTROL DRUM	CONCRETE BARRIER TEMPORARY PRECAST
TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT	WORK ZONE (NIGHT WORK ONLY)
FLASHING ARROW BOARD	WORK ZONE (DAY & NIGHT WORK)
SIGN ON PERMANENT SUPPORT	MARKING REMOVAL LINE
SIGN ON TEMPORARY SUPPORT	TEMPORARY MARKING ARROW REMOVABLE TAPE
TYPE A WARNING LIGHT (FLASHING)	TEMPORARY MARKING WORD REMOVABLE TAPE
TYPE B WARNING LIGHT (HIGH INTENSITY FLASHING)	6WT — TEMPORARY MARKING LINE REMOVABLE TAPE 6-INCH (WHITE)
TYPE C WARNING LIGHT (STEADY BURN)	6WTD — TEMPORARY MARKING LINE REMOVABLE TAPE 6-INCH (WHITE DASH 12.5' LINE 27.5' GAP)
MB — PORTABLE CHANGEABLE MESSAGE BOARD	6YT — TEMPORARY MARKING LINE REMOVABLE TAPE 6-INCH (YELLOW)
CC — TEMPORARY CRASH CUSHION	10WT — TEMPORARY MARKING LINE REMOVABLE TAPE 10-INCH (WHITE)
FBS — FLASHING BEACON SIGN	10WTS — TEMPORARY MARKING LINE REMOVABLE TAPE 10-INCH (WHITE SKIP 3' LINE 9' GAP)
CONNECTED ARROW BOARD	



CONSTRUCTION
WORK IN THIS STAGE CONSISTS OF THE FOLLOWING:

- RECONSTRUCTING INSIDE IH-41 SHOULDER AND PLACING TEMPORARY CONCRETE BARRIER.
- MILLING CONCRETE CORRUGATED SHOULDER ON STH 60 AND OVERLAYING WITH ASPHALT.
- WIDENING OUTSIDE PAVED SHOULDER ON STH 60.

TRAFFIC CONTROL

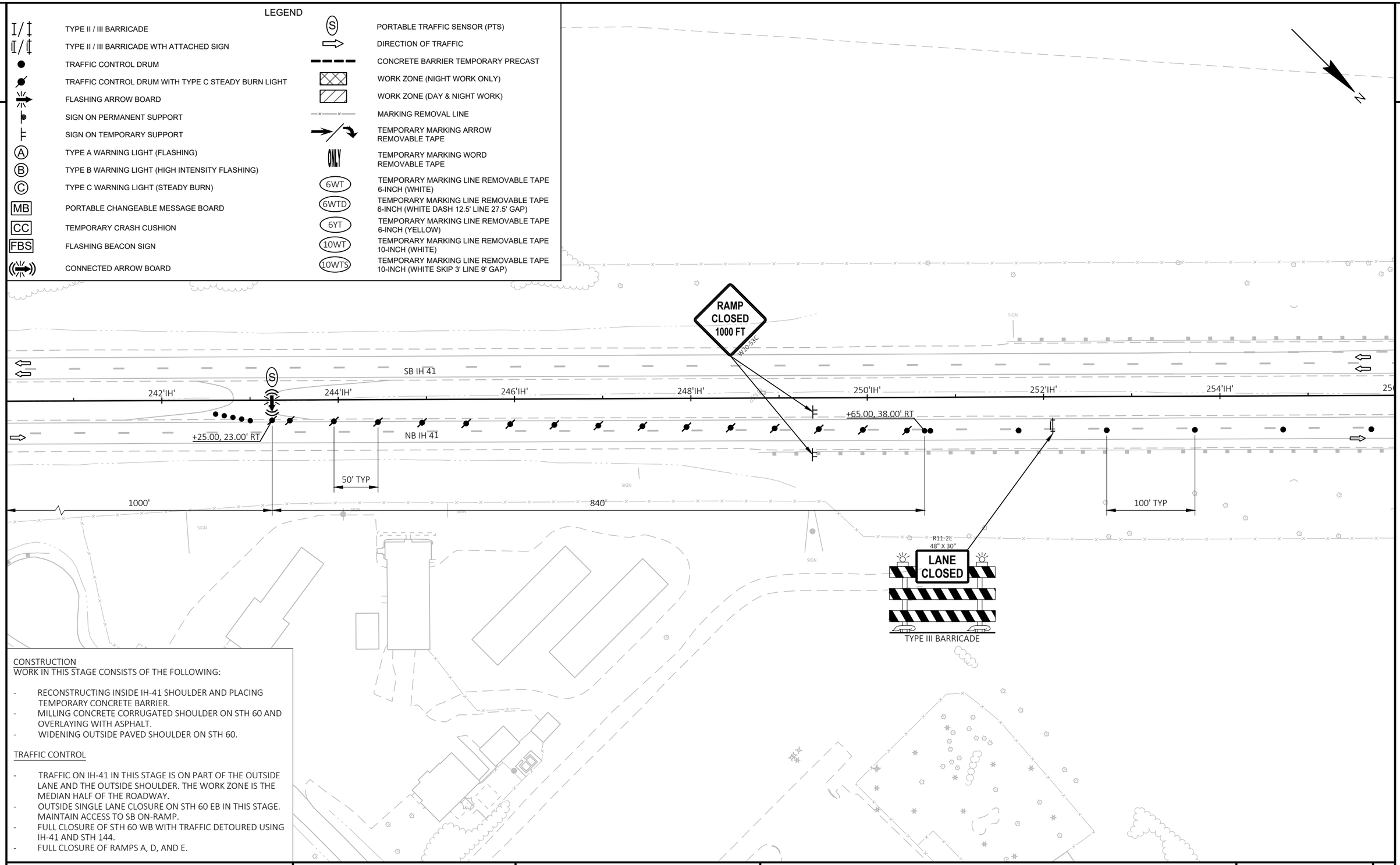
- TRAFFIC ON IH-41 IN THIS STAGE IS ON PART OF THE OUTSIDE LANE AND THE OUTSIDE SHOULDER. THE WORK ZONE IS THE MEDIAN HALF OF THE ROADWAY.
- OUTSIDE SINGLE LANE CLOSURE ON STH 60 EB IN THIS STAGE. MAINTAIN ACCESS TO SB ON-RAMP.
- FULL CLOSURE OF STH 60 WB WITH TRAFFIC DETOURED USING IH-41 AND STH 144.
- FULL CLOSURE OF RAMPS A, D, AND E.

PROJECT NO: 2310-09-71	HWY: STH 60	COUNTY: WASHINGTON	TRAFFIC CONTROL - IH 41 PRE-STAGE (NIGHT WORK ONLY)	SHEET 118	E

2

LEGEND

- TYPE II / III BARRICADE
- TYPE II / III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- FLASHING ARROW BOARD
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- (A) TYPE A WARNING LIGHT (FLASHING)
- (B) TYPE B WARNING LIGHT (HIGH INTENSITY FLASHING)
- (C) TYPE C WARNING LIGHT (STEADY BURN)
- MB PORTABLE CHANGEABLE MESSAGE BOARD
- CC TEMPORARY CRASH CUSHION
- FBS FLASHING BEACON SIGN
- CONNECTED ARROW BOARD
- (S) PORTABLE TRAFFIC SENSOR (PTS)
- DIRECTION OF TRAFFIC
- CONCRETE BARRIER TEMPORARY PRECAST
- WORK ZONE (NIGHT WORK ONLY)
- WORK ZONE (DAY & NIGHT WORK)
- MARKING REMOVAL LINE
- TEMPORARY MARKING ARROW REMOVABLE TAPE
- ONLY TEMPORARY MARKING WORD REMOVABLE TAPE
- 6WT TEMPORARY MARKING LINE REMOVABLE TAPE 6-INCH (WHITE)
- 6WTD TEMPORARY MARKING LINE REMOVABLE TAPE 6-INCH (WHITE DASH 12.5' LINE 27.5' GAP)
- 6YT TEMPORARY MARKING LINE REMOVABLE TAPE 6-INCH (YELLOW)
- 10WT TEMPORARY MARKING LINE REMOVABLE TAPE 10-INCH (WHITE)
- 10WTS TEMPORARY MARKING LINE REMOVABLE TAPE 10-INCH (WHITE SKIP 3' LINE 9' GAP)



CONSTRUCTION
WORK IN THIS STAGE CONSISTS OF THE FOLLOWING:

- RECONSTRUCTING INSIDE IH-41 SHOULDER AND PLACING TEMPORARY CONCRETE BARRIER.
- MILLING CONCRETE CORRUGATED SHOULDER ON STH 60 AND OVERLAYING WITH ASPHALT.
- WIDENING OUTSIDE PAVED SHOULDER ON STH 60.

TRAFFIC CONTROL

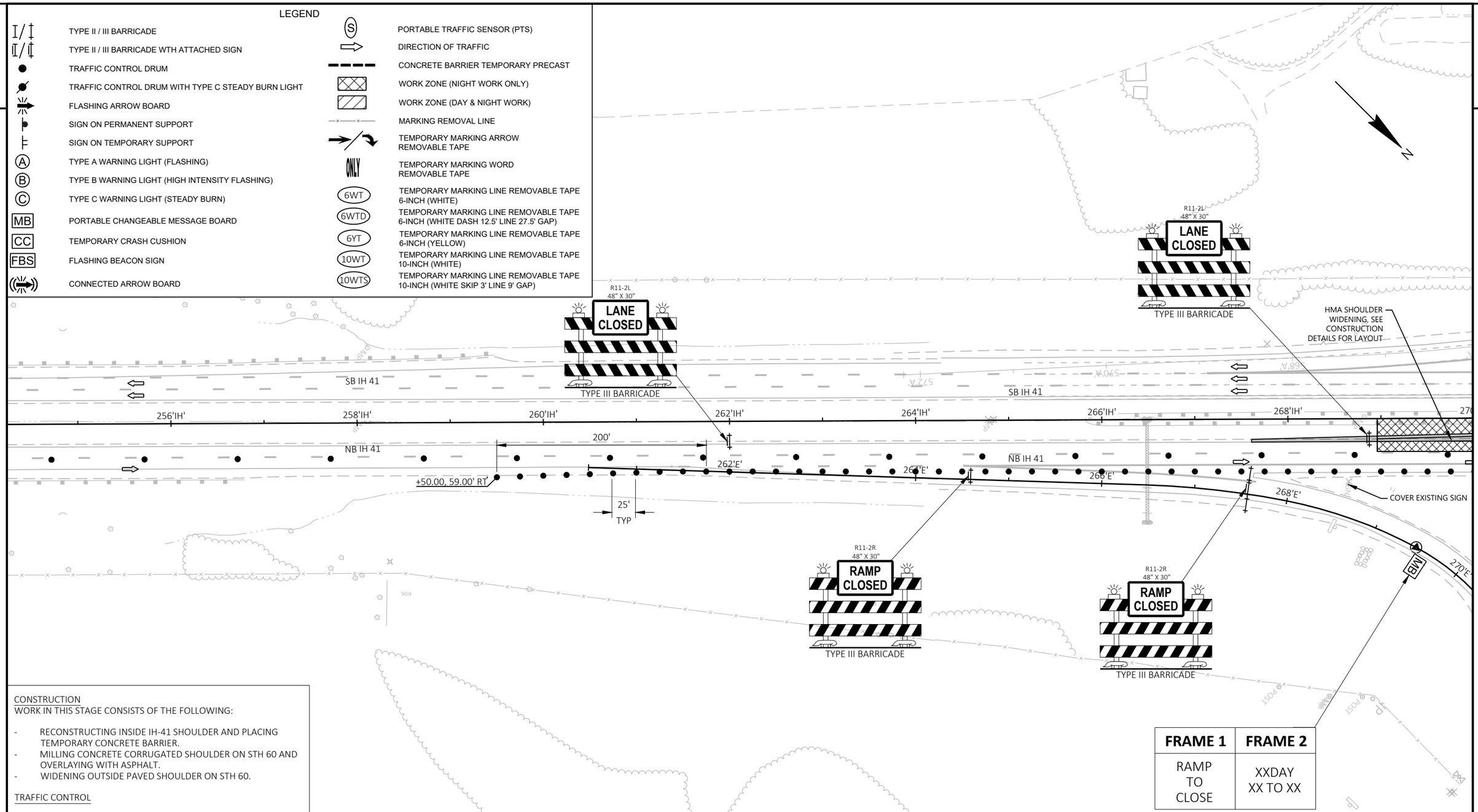
- TRAFFIC ON IH-41 IN THIS STAGE IS ON PART OF THE OUTSIDE LANE AND THE OUTSIDE SHOULDER. THE WORK ZONE IS THE MEDIAN HALF OF THE ROADWAY.
- OUTSIDE SINGLE LANE CLOSURE ON STH 60 EB IN THIS STAGE. MAINTAIN ACCESS TO SB ON-RAMP.
- FULL CLOSURE OF STH 60 WB WITH TRAFFIC DETOURED USING IH-41 AND STH 144.
- FULL CLOSURE OF RAMPS A, D, AND E.

PROJECT NO: 2310-09-71	HWY: STH 60	COUNTY: WASHINGTON	TRAFFIC CONTROL - IH 41 PRE-STAGE (NIGHT WORK ONLY)	SHEET 119	E

2

LEGEND

TYPE II / III BARRICADE	PORTABLE TRAFFIC SENSOR (PTS)
TYPE II / III BARRICADE WTH ATTACHED SIGN	DIRECTION OF TRAFFIC
TRAFFIC CONTROL DRUM	CONCRETE BARRIER TEMPORARY PRECAST
TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT	WORK ZONE (NIGHT WORK ONLY)
FLASHING ARROW BOARD	WORK ZONE (DAY & NIGHT WORK)
SIGN ON PERMANENT SUPPORT	MARKING REMOVAL LINE
SIGN ON TEMPORARY SUPPORT	TEMPORARY MARKING ARROW REMOVABLE TAPE
TYPE A WARNING LIGHT (FLASHING)	TEMPORARY MARKING WORD REMOVABLE TAPE
TYPE B WARNING LIGHT (HIGH INTENSITY FLASHING)	6WT — TEMPORARY MARKING LINE REMOVABLE TAPE 6-INCH (WHITE)
TYPE C WARNING LIGHT (STEADY BURN)	6WTD — TEMPORARY MARKING LINE REMOVABLE TAPE 6-INCH (WHITE DASH 12.5' LINE 27.5' GAP)
MB — PORTABLE CHANGEABLE MESSAGE BOARD	6YT — TEMPORARY MARKING LINE REMOVABLE TAPE 6-INCH (YELLOW)
CC — TEMPORARY CRASH CUSHION	10WT — TEMPORARY MARKING LINE REMOVABLE TAPE 10-INCH (WHITE)
FBS — FLASHING BEACON SIGN	10WTS — TEMPORARY MARKING LINE REMOVABLE TAPE 10-INCH (WHITE SKIP 3' LINE 9' GAP)
CONNECTED ARROW BOARD	



FRAME 1	FRAME 2
RAMP TO CLOSE	XXDAY XX TO XX

CONSTRUCTION
WORK IN THIS STAGE CONSISTS OF THE FOLLOWING:

- RECONSTRUCTING INSIDE IH-41 SHOULDER AND PLACING TEMPORARY CONCRETE BARRIER.
- MILLING CONCRETE CORRUGATED SHOULDER ON STH 60 AND OVERLAYING WITH ASPHALT.
- WIDENING OUTSIDE PAVED SHOULDER ON STH 60.

TRAFFIC CONTROL

- TRAFFIC ON IH-41 IN THIS STAGE IS ON PART OF THE OUTSIDE LANE AND THE OUTSIDE SHOULDER. THE WORK ZONE IS THE MEDIAN HALF OF THE ROADWAY.
- OUTSIDE SINGLE LANE CLOSURE ON STH 60 EB IN THIS STAGE. MAINTAIN ACCESS TO SB ON-RAMP.
- FULL CLOSURE OF STH 60 WB WITH TRAFFIC DETOURED USING IH-41 AND STH 144.
- FULL CLOSURE OF RAMPS A, D, AND E.

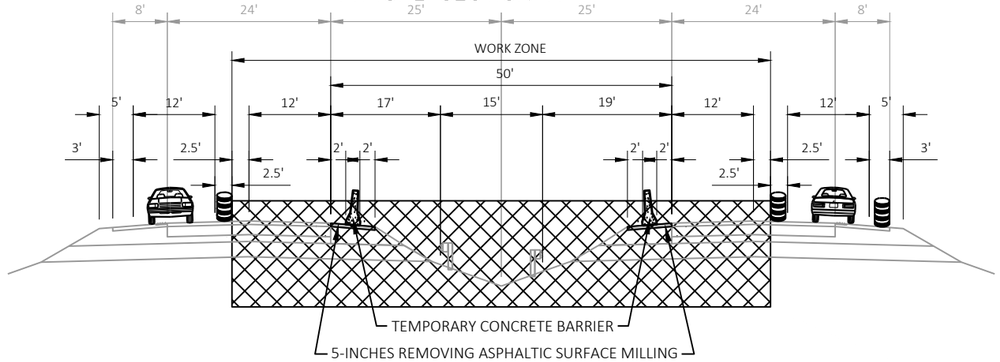
PROJECT NO: 2310-09-71	HWY: STH 60	COUNTY: WASHINGTON	TRAFFIC CONTROL - IH 41 PRE-STAGE (NIGHT WORK ONLY)	SHEET 120	E

2

LEGEND

TYPE II / III BARRICADE	PORTABLE TRAFFIC SENSOR (PTS)
TYPE II / III BARRICADE WTH ATTACHED SIGN	DIRECTION OF TRAFFIC
TRAFFIC CONTROL DRUM	CONCRETE BARRIER TEMPORARY PRECAST
TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT	WORK ZONE (NIGHT WORK ONLY)
FLASHING ARROW BOARD	WORK ZONE (DAY & NIGHT WORK)
SIGN ON PERMANENT SUPPORT	MARKING REMOVAL LINE
SIGN ON TEMPORARY SUPPORT	TEMPORARY MARKING ARROW REMOVABLE TAPE
TYPE A WARNING LIGHT (FLASHING)	TEMPORARY MARKING WORD REMOVABLE TAPE
TYPE B WARNING LIGHT (HIGH INTENSITY FLASHING)	6WT — TEMPORARY MARKING LINE REMOVABLE TAPE 6-INCH (WHITE)
TYPE C WARNING LIGHT (STEADY BURN)	6WTD — TEMPORARY MARKING LINE REMOVABLE TAPE 6-INCH (WHITE DASH 12.5' LINE 27.5' GAP)
PORTABLE CHANGEABLE MESSAGE BOARD	6YT — TEMPORARY MARKING LINE REMOVABLE TAPE 6-INCH (YELLOW)
TEMPORARY CRASH CUSHION	10WT — TEMPORARY MARKING LINE REMOVABLE TAPE 10-INCH (WHITE)
FLASHING BEACON SIGN	10WTS — TEMPORARY MARKING LINE REMOVABLE TAPE 10-INCH (WHITE SKIP 3' LINE 9' GAP)
CONNECTED ARROW BOARD	

TYPICAL SECTION A–A

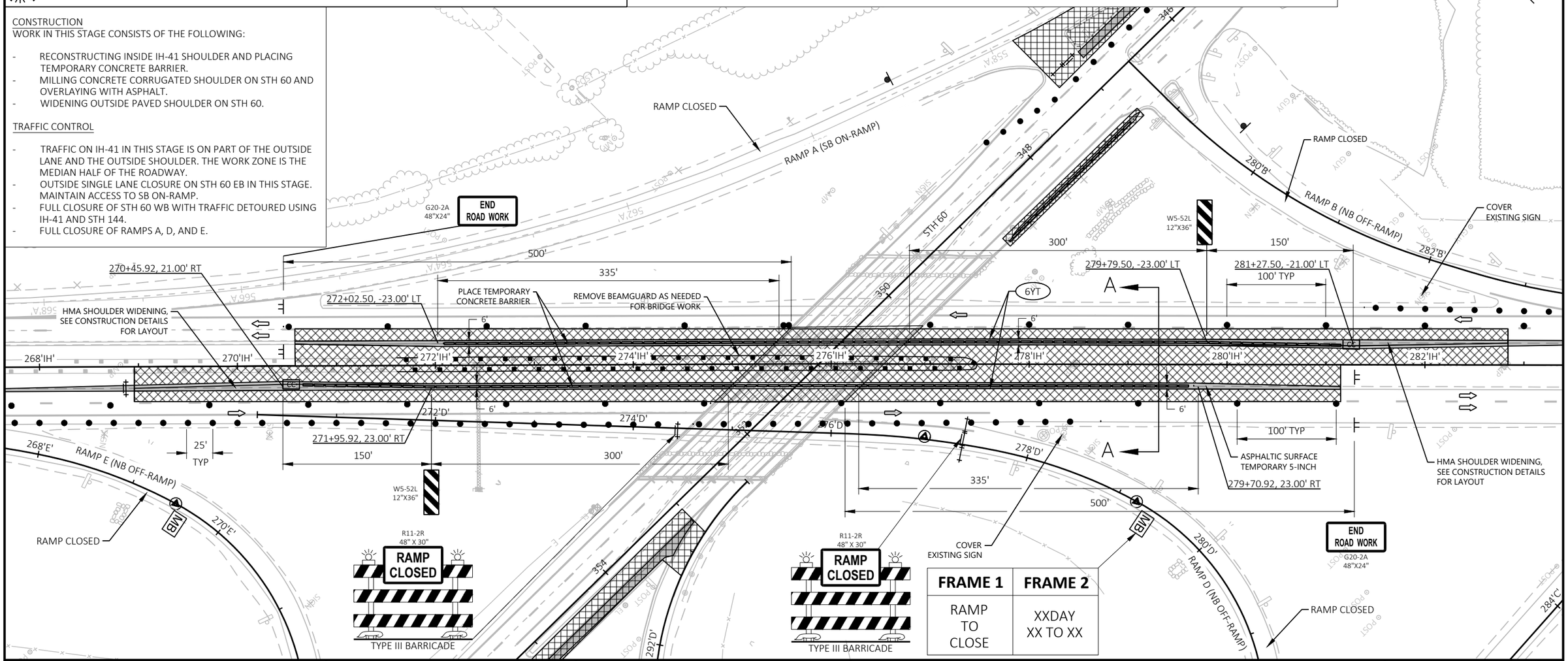


CONSTRUCTION
WORK IN THIS STAGE CONSISTS OF THE FOLLOWING:

- RECONSTRUCTING INSIDE IH-41 SHOULDER AND PLACING TEMPORARY CONCRETE BARRIER.
- MILLING CONCRETE CORRUGATED SHOULDER ON STH 60 AND OVERLAYING WITH ASPHALT.
- WIDENING OUTSIDE PAVED SHOULDER ON STH 60.

TRAFFIC CONTROL

- TRAFFIC ON IH-41 IN THIS STAGE IS ON PART OF THE OUTSIDE LANE AND THE OUTSIDE SHOULDER. THE WORK ZONE IS THE MEDIAN HALF OF THE ROADWAY.
- OUTSIDE SINGLE LANE CLOSURE ON STH 60 EB IN THIS STAGE. MAINTAIN ACCESS TO SB ON-RAMP.
- FULL CLOSURE OF STH 60 WB WITH TRAFFIC DETOURED USING IH-41 AND STH 144.
- FULL CLOSURE OF RAMPS A, D, AND E.



FRAME 1	FRAME 2
RAMP TO CLOSE	XXDAY XX TO XX

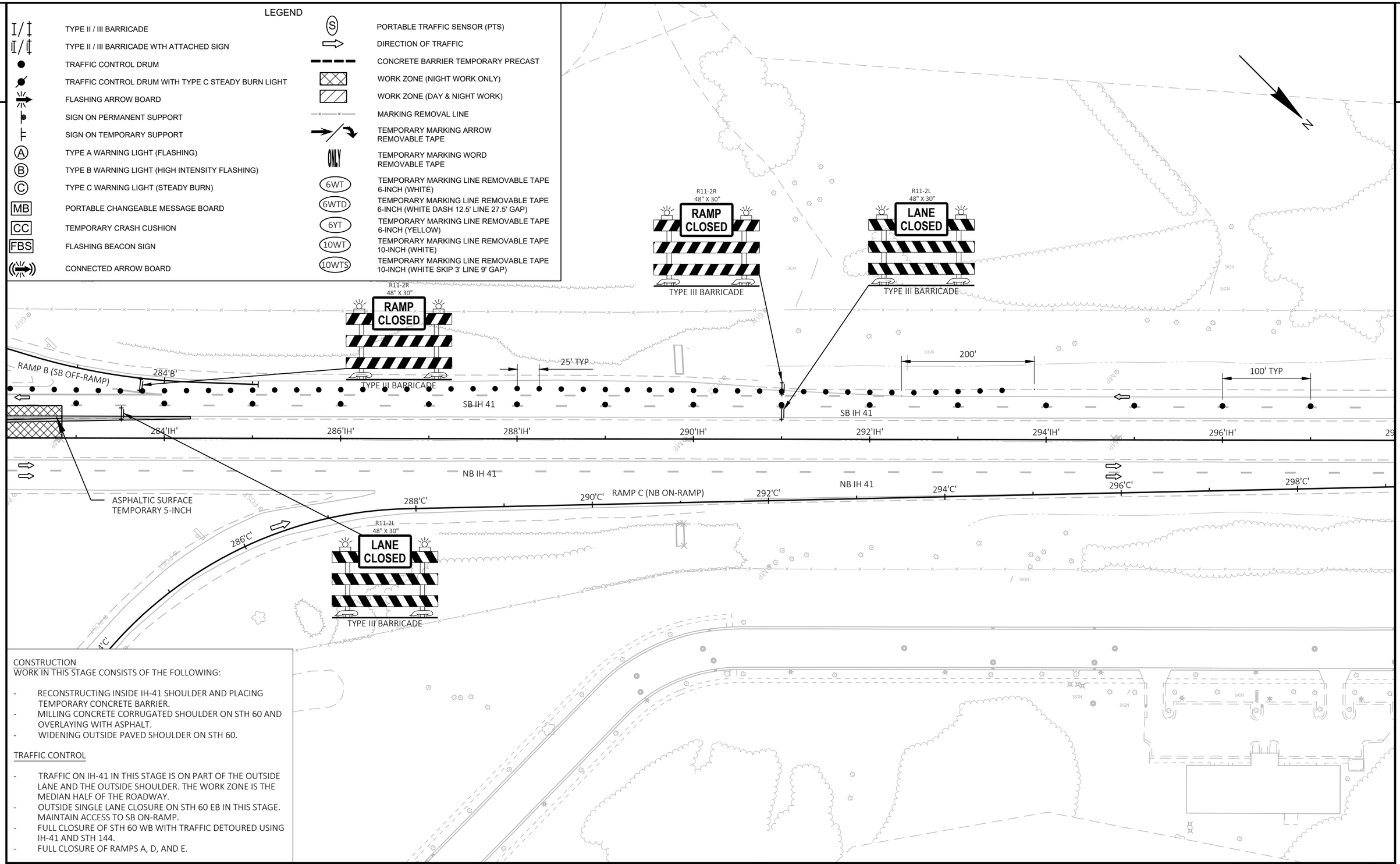
PROJECT NO: 2310-09-71	HWY: STH 60	COUNTY: WASHINGTON	TRAFFIC CONTROL - IH 41 PRE-STAGE (NIGHT WORK ONLY)	SHEET 121 E

FILE NAME : K:\195704_STH 60 AND IH 41 INTERSECTION\3.0 DELIVERABLES\3.02 ROADWAY\AUTOCAD\SHEETS\026051-S0.DWG
LAYOUT NAME - 025026-tc
PLOT DATE : 10/18/2025 2:57 PM PLOT BY : OLSEN, CASSIE PLOT NAME : PLOT SCALE : 1 IN:100 FT

2

LEGEND

- TYPE II / III BARRICADE
- TYPE II / III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- FLASHING ARROW BOARD
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- (A) TYPE A WARNING LIGHT (FLASHING)
- (B) TYPE B WARNING LIGHT (HIGH INTENSITY FLASHING)
- (C) TYPE C WARNING LIGHT (STEADY BURN)
- MB PORTABLE CHANGEABLE MESSAGE BOARD
- CC TEMPORARY CRASH CUSHION
- FBS FLASHING BEACON SIGN
- CONNECTED ARROW BOARD
- (S) PORTABLE TRAFFIC SENSOR (PTS)
- DIRECTION OF TRAFFIC
- CONCRETE BARRIER TEMPORARY PRECAST
- WORK ZONE (NIGHT WORK ONLY)
- WORK ZONE (DAY & NIGHT WORK)
- MARKING REMOVAL LINE
- TEMPORARY MARKING ARROW REMOVABLE TAPE
- ONLY TEMPORARY MARKING WORD REMOVABLE TAPE
- 6WT TEMPORARY MARKING LINE REMOVABLE TAPE 6-INCH (WHITE)
- 6WTD TEMPORARY MARKING LINE REMOVABLE TAPE 6-INCH (WHITE DASH 12.5' LINE 27.5' GAP)
- 6YT TEMPORARY MARKING LINE REMOVABLE TAPE 6-INCH (YELLOW)
- 10WT TEMPORARY MARKING LINE REMOVABLE TAPE 10-INCH (WHITE)
- 10WTS TEMPORARY MARKING LINE REMOVABLE TAPE 10-INCH (WHITE SKIP 3' LINE 9' GAP)



CONSTRUCTION
WORK IN THIS STAGE CONSISTS OF THE FOLLOWING:

- RECONSTRUCTING INSIDE IH-41 SHOULDER AND PLACING TEMPORARY CONCRETE BARRIER.
- MILLING CONCRETE CORRUGATED SHOULDER ON STH 60 AND OVERLAYING WITH ASPHALT.
- WIDENING OUTSIDE PAVED SHOULDER ON STH 60.

TRAFFIC CONTROL

- TRAFFIC ON IH-41 IN THIS STAGE IS ON PART OF THE OUTSIDE LANE AND THE OUTSIDE SHOULDER. THE WORK ZONE IS THE MEDIAN HALF OF THE ROADWAY.
- OUTSIDE SINGLE LANE CLOSURE ON STH 60 EB IN THIS STAGE. MAINTAIN ACCESS TO SB ON-RAMP.
- FULL CLOSURE OF STH 60 WB WITH TRAFFIC DETOURED USING IH-41 AND STH 144.
- FULL CLOSURE OF RAMPS A, D, AND E.

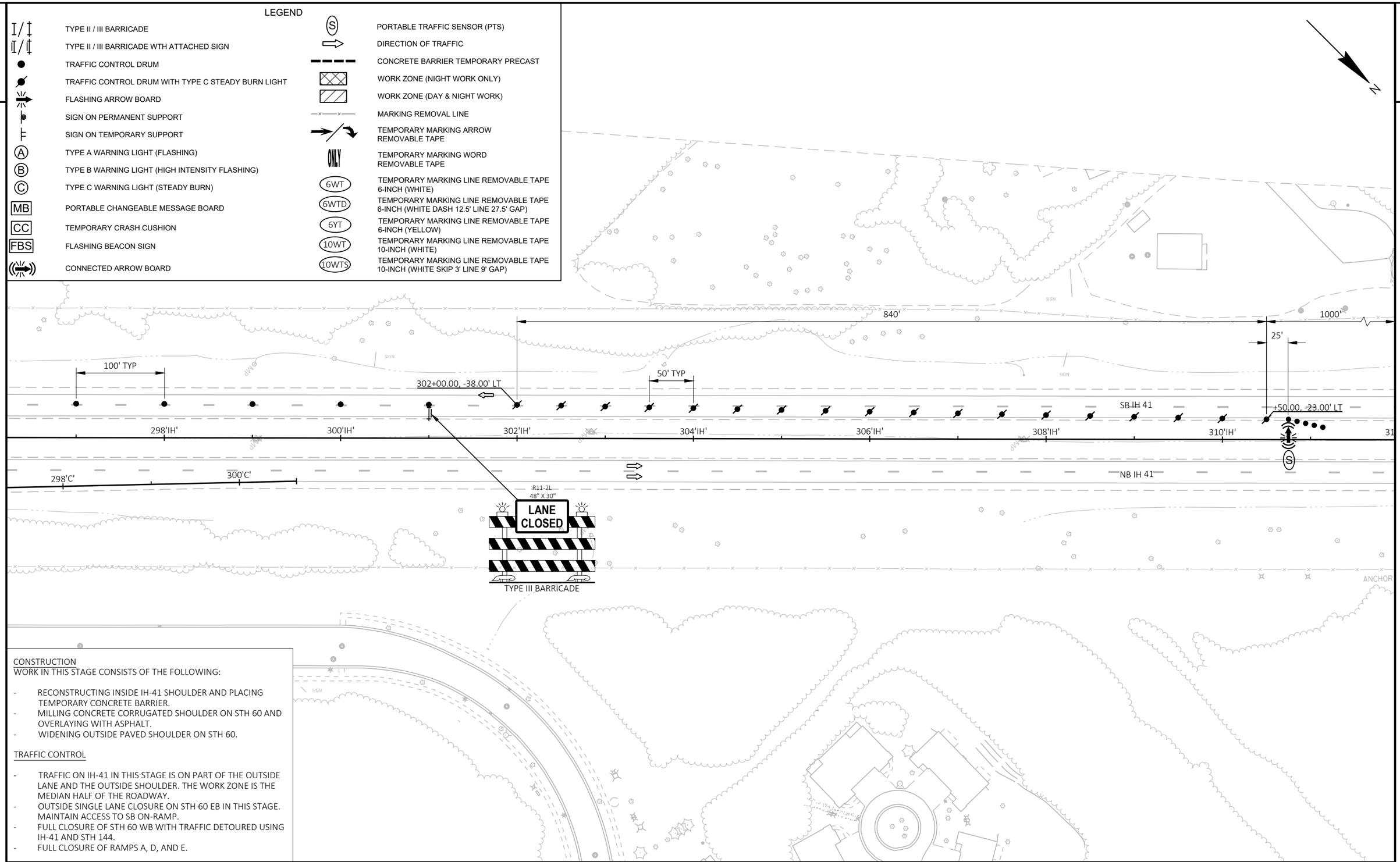
PROJECT NO: 2310-09-71	HWY: STH 60	COUNTY: WASHINGTON	TRAFFIC CONTROL - IH 41 PRE-STAGE (NIGHT WORK ONLY)	SHEET 122	E

FILE NAME : K:\195704_STH 60 AND IH 41 INTERSECTION\3.0 DELIVERABLES\3.02 ROADWAY\AUTOCAD\SHEETS\026051-S0.DWG
LAYOUT NAME - 025026-tc
PLOT DATE : 10/18/2025 2:58 PM PLOT BY : OLSEN, CASSIE PLOT NAME : PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 42

2

LEGEND

- TYPE II / III BARRICADE
- TYPE II / III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- FLASHING ARROW BOARD
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- (A) TYPE A WARNING LIGHT (FLASHING)
- (B) TYPE B WARNING LIGHT (HIGH INTENSITY FLASHING)
- (C) TYPE C WARNING LIGHT (STEADY BURN)
- MB PORTABLE CHANGEABLE MESSAGE BOARD
- CC TEMPORARY CRASH CUSHION
- FBS FLASHING BEACON SIGN
- CONNECTED ARROW BOARD
- (S) PORTABLE TRAFFIC SENSOR (PTS)
- DIRECTION OF TRAFFIC
- CONCRETE BARRIER TEMPORARY PRECAST
- WORK ZONE (NIGHT WORK ONLY)
- WORK ZONE (DAY & NIGHT WORK)
- MARKING REMOVAL LINE
- TEMPORARY MARKING ARROW REMOVABLE TAPE
- ONLY TEMPORARY MARKING WORD REMOVABLE TAPE
- 6WT TEMPORARY MARKING LINE REMOVABLE TAPE 6-INCH (WHITE)
- 6WTD TEMPORARY MARKING LINE REMOVABLE TAPE 6-INCH (WHITE DASH 12.5' LINE 27.5' GAP)
- 6YT TEMPORARY MARKING LINE REMOVABLE TAPE 6-INCH (YELLOW)
- 10WT TEMPORARY MARKING LINE REMOVABLE TAPE 10-INCH (WHITE)
- 10WTS TEMPORARY MARKING LINE REMOVABLE TAPE 10-INCH (WHITE SKIP 3' LINE 9' GAP)



CONSTRUCTION
WORK IN THIS STAGE CONSISTS OF THE FOLLOWING:

- RECONSTRUCTING INSIDE IH-41 SHOULDER AND PLACING TEMPORARY CONCRETE BARRIER.
- MILLING CONCRETE CORRUGATED SHOULDER ON STH 60 AND OVERLAYING WITH ASPHALT.
- WIDENING OUTSIDE PAVED SHOULDER ON STH 60.

TRAFFIC CONTROL

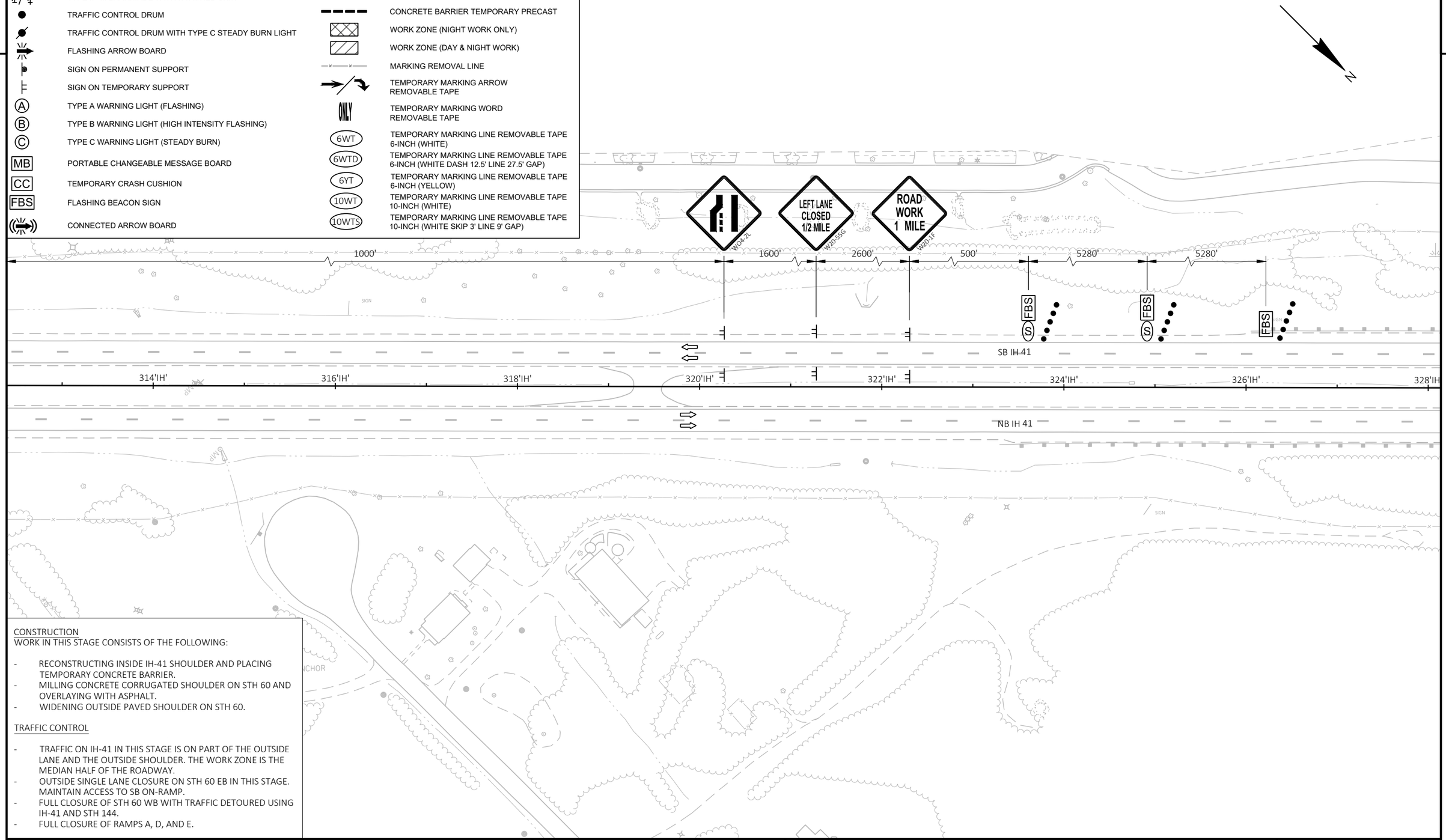
- TRAFFIC ON IH-41 IN THIS STAGE IS ON PART OF THE OUTSIDE LANE AND THE OUTSIDE SHOULDER. THE WORK ZONE IS THE MEDIAN HALF OF THE ROADWAY.
- OUTSIDE SINGLE LANE CLOSURE ON STH 60 EB IN THIS STAGE. MAINTAIN ACCESS TO SB ON-RAMP.
- FULL CLOSURE OF STH 60 WB WITH TRAFFIC DETOURED USING IH-41 AND STH 144.
- FULL CLOSURE OF RAMPS A, D, AND E.

PROJECT NO: 2310-09-71	HWY: STH 60	COUNTY: WASHINGTON	TRAFFIC CONTROL - IH 41 PRE-STAGE (NIGHT WORK ONLY)	SHEET 123	E

2

LEGEND

TYPE II / III BARRICADE	PORTABLE TRAFFIC SENSOR (PTS)
TYPE II / III BARRICADE WTH ATTACHED SIGN	DIRECTION OF TRAFFIC
TRAFFIC CONTROL DRUM	CONCRETE BARRIER TEMPORARY PRECAST
TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT	WORK ZONE (NIGHT WORK ONLY)
FLASHING ARROW BOARD	WORK ZONE (DAY & NIGHT WORK)
SIGN ON PERMANENT SUPPORT	MARKING REMOVAL LINE
SIGN ON TEMPORARY SUPPORT	TEMPORARY MARKING ARROW REMOVABLE TAPE
TYPE A WARNING LIGHT (FLASHING)	TEMPORARY MARKING WORD REMOVABLE TAPE
TYPE B WARNING LIGHT (HIGH INTENSITY FLASHING)	6WT — TEMPORARY MARKING LINE REMOVABLE TAPE 6-INCH (WHITE)
TYPE C WARNING LIGHT (STEADY BURN)	6WTD — TEMPORARY MARKING LINE REMOVABLE TAPE 6-INCH (WHITE DASH 12.5' LINE 27.5' GAP)
MB — PORTABLE CHANGEABLE MESSAGE BOARD	6YT — TEMPORARY MARKING LINE REMOVABLE TAPE 6-INCH (YELLOW)
CC — TEMPORARY CRASH CUSHION	10WT — TEMPORARY MARKING LINE REMOVABLE TAPE 10-INCH (WHITE)
FBS — FLASHING BEACON SIGN	10WTS — TEMPORARY MARKING LINE REMOVABLE TAPE 10-INCH (WHITE SKIP 3' LINE 9' GAP)
CONNECTED ARROW BOARD	



CONSTRUCTION

WORK IN THIS STAGE CONSISTS OF THE FOLLOWING:

- RECONSTRUCTING INSIDE IH-41 SHOULDER AND PLACING TEMPORARY CONCRETE BARRIER.
- MILLING CONCRETE CORRUGATED SHOULDER ON STH 60 AND OVERLAYING WITH ASPHALT.
- WIDENING OUTSIDE PAVED SHOULDER ON STH 60.

TRAFFIC CONTROL

- TRAFFIC ON IH-41 IN THIS STAGE IS ON PART OF THE OUTSIDE LANE AND THE OUTSIDE SHOULDER. THE WORK ZONE IS THE MEDIAN HALF OF THE ROADWAY.
- OUTSIDE SINGLE LANE CLOSURE ON STH 60 EB IN THIS STAGE. MAINTAIN ACCESS TO SB ON-RAMP.
- FULL CLOSURE OF STH 60 WB WITH TRAFFIC DETOURED USING IH-41 AND STH 144.
- FULL CLOSURE OF RAMPS A, D, AND E.

PROJECT NO: 2310-09-71	HWY: STH 60	COUNTY: WASHINGTON	TRAFFIC CONTROL - IH 41 PRE-STAGE (NIGHT WORK ONLY)	SHEET 124	E

2

LEGEND

I/‡	TYPE II / III BARRICADE	(S)	PORTABLE TRAFFIC SENSOR (PTS)
I/‡	TYPE II / III BARRICADE WTH ATTACHED SIGN	⇨	DIRECTION OF TRAFFIC
●	TRAFFIC CONTROL DRUM	▬ ▬ ▬	CONCRETE BARRIER TEMPORARY PRECAST
●	TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT	▨	WORK ZONE (NIGHT WORK ONLY)
▶	FLASHING ARROW BOARD	▨	WORK ZONE (DAY & NIGHT WORK)
●	SIGN ON PERMANENT SUPPORT	—x—x—	MARKING REMOVAL LINE
‡	SIGN ON TEMPORARY SUPPORT	➔	TEMPORARY MARKING ARROW REMOVABLE TAPE
(A)	TYPE A WARNING LIGHT (FLASHING)	ONLY	TEMPORARY MARKING WORD REMOVABLE TAPE
(B)	TYPE B WARNING LIGHT (HIGH INTENSITY FLASHING)	6WT	TEMPORARY MARKING LINE REMOVABLE TAPE 6-INCH (WHITE)
(C)	TYPE C WARNING LIGHT (STEADY BURN)	6WTD	TEMPORARY MARKING LINE REMOVABLE TAPE 6-INCH (WHITE DASH 12.5' LINE 27.5' GAP)
MB	PORTABLE CHANGEABLE MESSAGE BOARD	6YT	TEMPORARY MARKING LINE REMOVABLE TAPE 6-INCH (YELLOW)
CC	TEMPORARY CRASH CUSHION	10WT	TEMPORARY MARKING LINE REMOVABLE TAPE 10-INCH (WHITE)
FBS	FLASHING BEACON SIGN	10WTS	TEMPORARY MARKING LINE REMOVABLE TAPE 10-INCH (WHITE SKIP 3' LINE 9' GAP)
((▶))	CONNECTED ARROW BOARD		

N

G20-2A
48"X24"
END
ROAD WORK

STH 60

310 312 314 316 318 320 322

ROAD
WORK
AHEAD
W20-1A

ENTERPRISE DR

LEFT LANE
CLOSED
AHEAD
W20-5A

W04-2L

MATCHLINE 323+00

2

PROJECT NO: 2310-09-71	HWY: STH 60	COUNTY: WASHINGTON	TRAFFIC CONTROL - STH 60 STAGE 1 (DAY & NIGHT WORK)	SHEET 125	E

2

LEGEND

I/‡	TYPE II / III BARRICADE	(S)	PORTABLE TRAFFIC SENSOR (PTS)
I/‡	TYPE II / III BARRICADE WTH ATTACHED SIGN	⇨	DIRECTION OF TRAFFIC
●	TRAFFIC CONTROL DRUM	▬ ▬ ▬	CONCRETE BARRIER TEMPORARY PRECAST
●	TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT	▨	WORK ZONE (NIGHT WORK ONLY)
●	FLASHING ARROW BOARD	▨	WORK ZONE (DAY & NIGHT WORK)
●	SIGN ON PERMANENT SUPPORT	—x—x—	MARKING REMOVAL LINE
‡	SIGN ON TEMPORARY SUPPORT	→	TEMPORARY MARKING ARROW REMOVABLE TAPE
(A)	TYPE A WARNING LIGHT (FLASHING)	ONLY	TEMPORARY MARKING WORD REMOVABLE TAPE
(B)	TYPE B WARNING LIGHT (HIGH INTENSITY FLASHING)	6WT	TEMPORARY MARKING LINE REMOVABLE TAPE 6-INCH (WHITE)
(C)	TYPE C WARNING LIGHT (STEADY BURN)	6WTD	TEMPORARY MARKING LINE REMOVABLE TAPE 6-INCH (WHITE DASH 12.5' LINE 27.5' GAP)
MB	PORTABLE CHANGEABLE MESSAGE BOARD	6YT	TEMPORARY MARKING LINE REMOVABLE TAPE 6-INCH (YELLOW)
CC	TEMPORARY CRASH CUSHION	10WT	TEMPORARY MARKING LINE REMOVABLE TAPE 10-INCH (WHITE)
FBS	FLASHING BEACON SIGN	10WTS	TEMPORARY MARKING LINE REMOVABLE TAPE 10-INCH (WHITE SKIP 3' LINE 9' GAP)
((⇨))	CONNECTED ARROW BOARD		

N

R11-2L
48" X 30"
LANE CLOSED
TYPE III BARRICADE

EAST 60 M3-2 24"X12" M1-6 24"X24"
MAX. 11' WIDTH W12-52 48"X48"
MATCH LINE 322+00
322 324 326 328 330 332 334 336
STH 60
600'
+00, 8.00' RT
+00, 20.00' RT
6YT
50' TYP
100' TYP
MATCH LINE 336+25
W01-4R
MAX. 11' WIDTH W12-52 48"X48"
SOUTH ZINGRAS 41 MO3-3 24"X12" M1-1 24"X24"
RAMP CLOSED AHEAD W20-3A
0.1 MILES AHEAD WO57-52 48"X36"
LOVERS LN (STH 164)
EAST 60 M3-2 24"X12" M1-6 24"X24"
MAX. 11' WIDTH W12-52 48"X48"

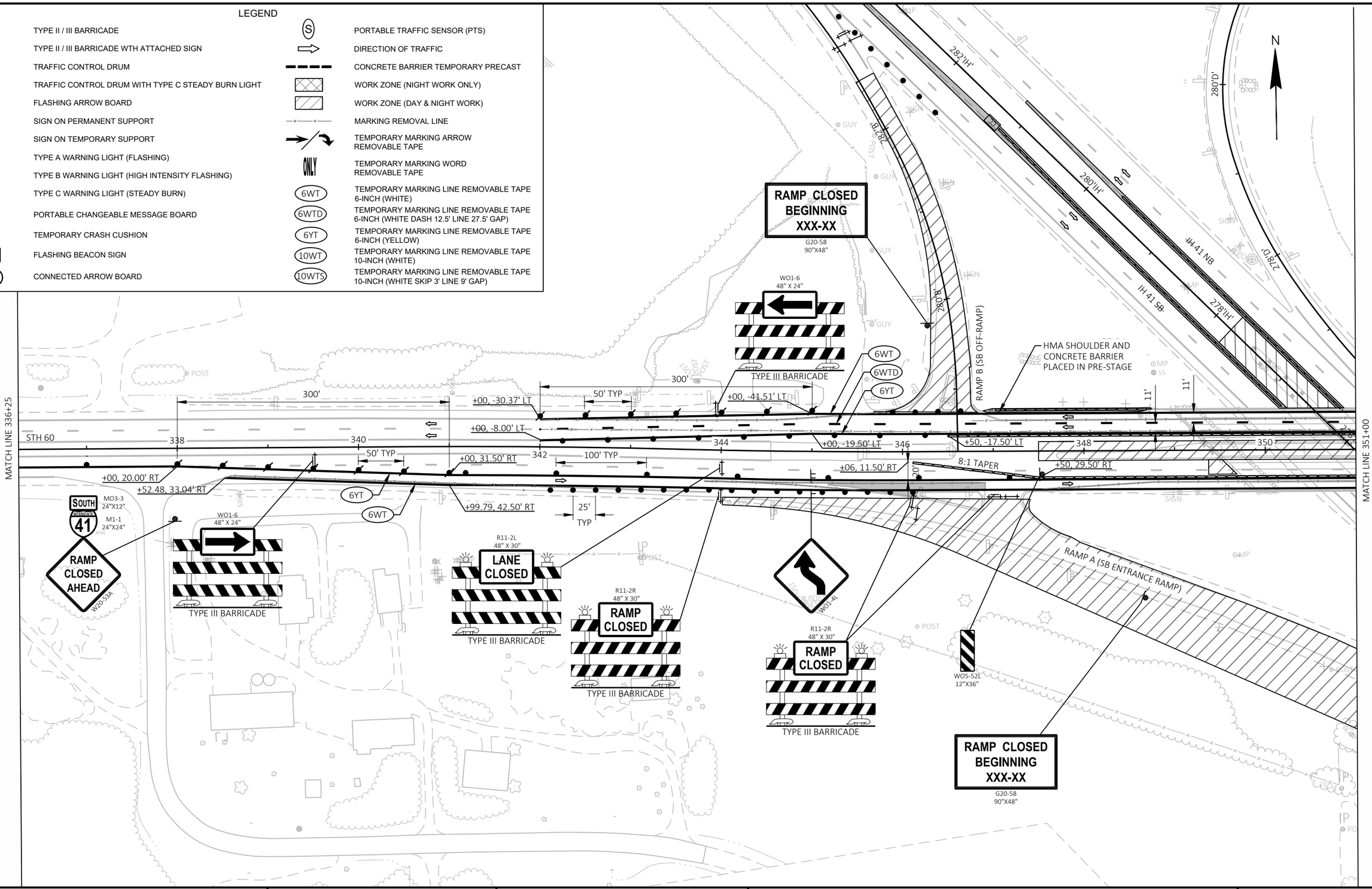
PROJECT NO: 2310-09-71	HWY: STH 60	COUNTY: WASHINGTON	TRAFFIC CONTROL - STH 60 STAGE 1 (DAY & NIGHT WORK)	SHEET 126	E

FILE NAME : K:\195704_STH 60 AND IH 41 INTERSECTION\3.0 DELIVERABLES\3.02 ROADWAY\AUTOCAD\SHEETS\026101-S1.DWG
LAYOUT NAME - 02
PLOT DATE : 10/21/2025 7:43 PM
PLOT BY : OLSEN, CASSIE
PLOT NAME :
PLOT SCALE : 1 IN:100 FT

2

LEGEND

I/‡	TYPE II / III BARRICADE	(S)	PORTABLE TRAFFIC SENSOR (PTS)
I/‡	TYPE II / III BARRICADE WTH ATTACHED SIGN	⇨	DIRECTION OF TRAFFIC
●	TRAFFIC CONTROL DRUM	▬ ▬ ▬	CONCRETE BARRIER TEMPORARY PRECAST
●	TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT	▨	WORK ZONE (NIGHT WORK ONLY)
●	FLASHING ARROW BOARD	▨	WORK ZONE (DAY & NIGHT WORK)
●	SIGN ON PERMANENT SUPPORT	—x—x—	MARKING REMOVAL LINE
‡	SIGN ON TEMPORARY SUPPORT	→	TEMPORARY MARKING ARROW REMOVABLE TAPE
(A)	TYPE A WARNING LIGHT (FLASHING)	ONLY	TEMPORARY MARKING WORD REMOVABLE TAPE
(B)	TYPE B WARNING LIGHT (HIGH INTENSITY FLASHING)	6WT	TEMPORARY MARKING LINE REMOVABLE TAPE 6-INCH (WHITE)
(C)	TYPE C WARNING LIGHT (STEADY BURN)	6WTD	TEMPORARY MARKING LINE REMOVABLE TAPE 6-INCH (WHITE DASH 12.5' LINE 27.5' GAP)
MB	PORTABLE CHANGEABLE MESSAGE BOARD	6YT	TEMPORARY MARKING LINE REMOVABLE TAPE 6-INCH (YELLOW)
CC	TEMPORARY CRASH CUSHION	10WT	TEMPORARY MARKING LINE REMOVABLE TAPE 10-INCH (WHITE)
FBS	FLASHING BEACON SIGN	10WTS	TEMPORARY MARKING LINE REMOVABLE TAPE 10-INCH (WHITE SKIP 3' LINE 9' GAP)
((⇨))	CONNECTED ARROW BOARD		



PROJECT NO: 2310-09-71	HWY: STH 60	COUNTY: WASHINGTON	TRAFFIC CONTROL - STH 60 STAGE 1 (DAY & NIGHT WORK)	SHEET 127	E

2

N

MATCH LINE 351+00

MATCH LINE 365+50

RAMP D (NB LOOP OFF-RAMP)

RAMP C (NB ON-RAMP)

RAMP E (NB OFF-RAMP)

IH 41 NB

IH 41 SB

STH 60

WO1-48L

6WT

6WTD

6YT

10WT

+61.20, -41.50' LT

+87.66, -30.50' LT

+20'D', 0.00'

+58.77, -30.50' LT

+50, -19.50' LT

+33.60, -15.50' LT

+78.36'D', -15.68' LT

+00, -30.50' LT

+00, -18.50' LT

+00, -19.50' LT

+30, 31.50' RT

+50, 42.50' RT

+85, 30.00' RT

+45, 26.50' RT

+00, 32.50' RT

BEGIN LEFT TURN LANE

R3-20L
24"X36"

WO1-6
48" X 24"

TYPE III BARRICADE

R11-2L
48" X 30"

LANE CLOSED

TYPE III BARRICADE

MARKING REMOVAL
SPECIAL MARKING

25' TYP

50' TYP

600'

250'

352 354 356 358 360 362 364

270'C' 272'C' 274'C'

288'D' 290'D' 292'D' 276'D' 272'D' 274'D'

274'E' 272'E' 270'E'

272'IH' 270'IH'

274'IH'

LEGEND

I/‡	TYPE II / III BARRICADE	S	PORTABLE TRAFFIC SENSOR (PTS)
I/‡	TYPE II / III BARRICADE WTH ATTACHED SIGN	⇨	DIRECTION OF TRAFFIC
●	TRAFFIC CONTROL DRUM		CONCRETE BARRIER TEMPORARY PRECAST
	TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT		WORK ZONE (NIGHT WORK ONLY)
	FLASHING ARROW BOARD		WORK ZONE (DAY & NIGHT WORK)
	SIGN ON PERMANENT SUPPORT		MARKING REMOVAL LINE
	SIGN ON TEMPORARY SUPPORT		TEMPORARY MARKING ARROW REMOVABLE TAPE
A	TYPE A WARNING LIGHT (FLASHING)	ONLY	TEMPORARY MARKING WORD REMOVABLE TAPE
B	TYPE B WARNING LIGHT (HIGH INTENSITY FLASHING)		
C	TYPE C WARNING LIGHT (STEADY BURN)	6WT	TEMPORARY MARKING LINE REMOVABLE TAPE 6-INCH (WHITE)
MB	PORTABLE CHANGEABLE MESSAGE BOARD	6WTD	TEMPORARY MARKING LINE REMOVABLE TAPE 6-INCH (WHITE DASH 12.5' LINE 27.5' GAP)
CC	TEMPORARY CRASH CUSHION	6YT	TEMPORARY MARKING LINE REMOVABLE TAPE 6-INCH (YELLOW)
FBS	FLASHING BEACON SIGN	10WT	TEMPORARY MARKING LINE REMOVABLE TAPE 10-INCH (WHITE)
	CONNECTED ARROW BOARD	10WTS	TEMPORARY MARKING LINE REMOVABLE TAPE 10-INCH (WHITE SKIP 3' LINE 9' GAP)

PROJECT NO: 2310-09-71	HWY: STH 60	COUNTY: WASHINGTON	TRAFFIC CONTROL - STH 60 STAGE 1 (DAY & NIGHT WORK)	SHEET 128	E

FILE NAME : K:\195704_STH 60 AND IH 41 INTERSECTION\3.0 DELIVERABLES\3.02 ROADWAY\AUTOCAD\SHEETS\026101-S1.DWG
LAYOUT NAME - 04

PLOT DATE : 10/18/2025 4:38 PM PLOT BY : OLSEN, CASSIE PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

2

N

MATCH LINE 365+50

SOUTH INTERSTATE 41 — MO3-3 24"X12" / M1-1 24"X24"

RAMP CLOSED AHEAD W20-53A

W0A4-2L

LEFT LANE CLOSED AHEAD W20-55A

ROAD CLOSED AHEAD W20-3A

HILLSIDE RD (CTH C)

STH 60

366 368 370 372 374 376 378 380

MARKING REMOVAL SPECIAL MARKING

END ROAD WORK G20-2A 48"X24"

LEGEND

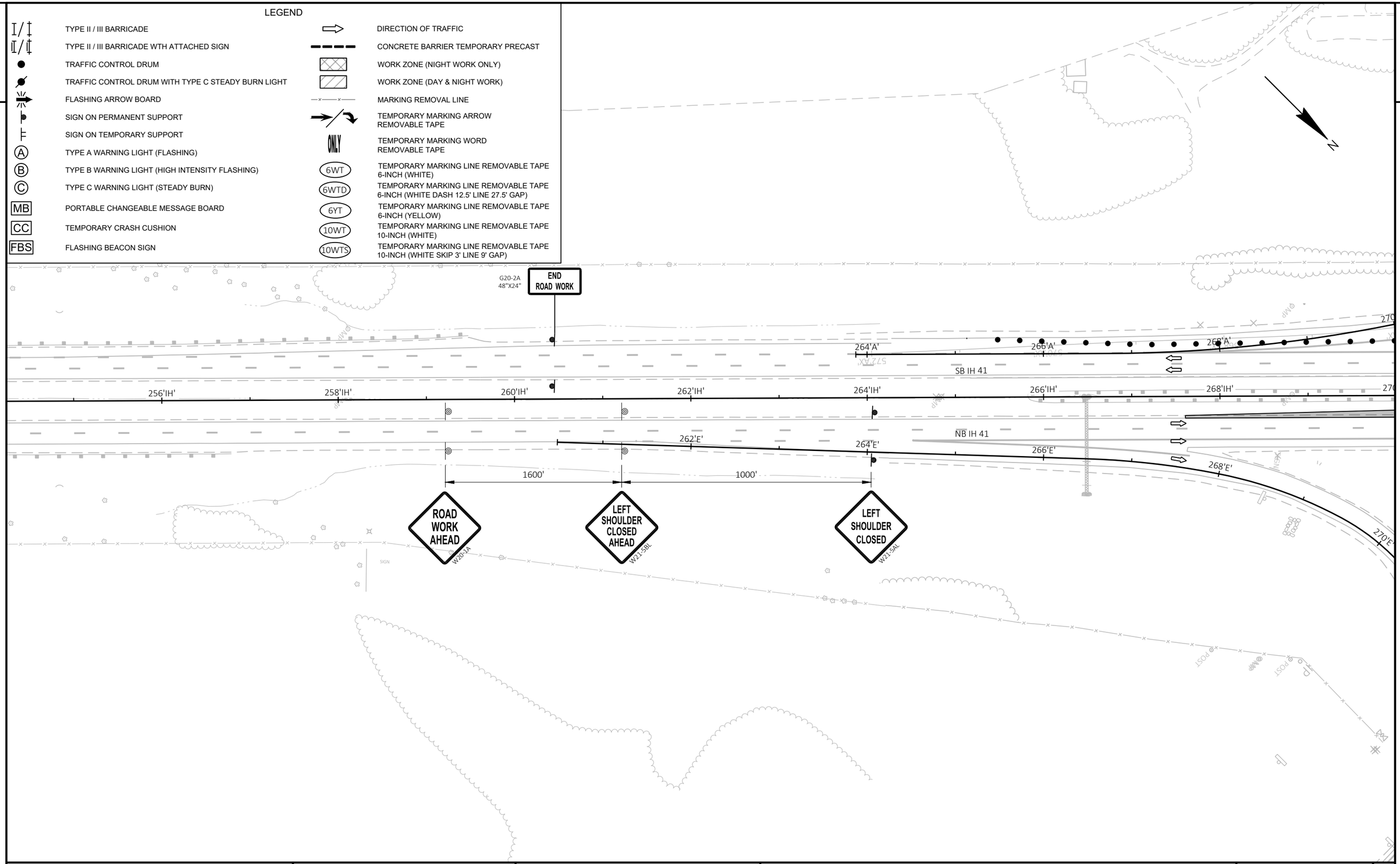
I/‡	TYPE II / III BARRICADE	S	PORTABLE TRAFFIC SENSOR (PTS)
I/‡	TYPE II / III BARRICADE WTH ATTACHED SIGN	⇨	DIRECTION OF TRAFFIC
●	TRAFFIC CONTROL DRUM	▬▬▬	CONCRETE BARRIER TEMPORARY PRECAST
●	TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT	▨	WORK ZONE (NIGHT WORK ONLY)
➔	FLASHING ARROW BOARD	▨	WORK ZONE (DAY & NIGHT WORK)
●	SIGN ON PERMANENT SUPPORT	—×—×—	MARKING REMOVAL LINE
⊢	SIGN ON TEMPORARY SUPPORT	➔	TEMPORARY MARKING ARROW REMOVABLE TAPE
Ⓐ	TYPE A WARNING LIGHT (FLASHING)	ONLY	TEMPORARY MARKING WORD REMOVABLE TAPE
Ⓑ	TYPE B WARNING LIGHT (HIGH INTENSITY FLASHING)	6WT	TEMPORARY MARKING LINE REMOVABLE TAPE 6-INCH (WHITE)
Ⓒ	TYPE C WARNING LIGHT (STEADY BURN)	6WTD	TEMPORARY MARKING LINE REMOVABLE TAPE 6-INCH (WHITE DASH 12.5' LINE 27.5' GAP)
MB	PORTABLE CHANGEABLE MESSAGE BOARD	6YT	TEMPORARY MARKING LINE REMOVABLE TAPE 6-INCH (YELLOW)
CC	TEMPORARY CRASH CUSHION	10WT	TEMPORARY MARKING LINE REMOVABLE TAPE 10-INCH (WHITE)
FBS	FLASHING BEACON SIGN	10WTS	TEMPORARY MARKING LINE REMOVABLE TAPE 10-INCH (WHITE SKIP 3' LINE 9' GAP)
((➔))	CONNECTED ARROW BOARD		

PROJECT NO: 2310-09-71	HWY: STH 60	COUNTY: WASHINGTON	TRAFFIC CONTROL - STH 60 STAGE 1 (DAY & NIGHT WORK)	SHEET 129	E

2

LEGEND

I/‡	TYPE II / III BARRICADE	⇨	DIRECTION OF TRAFFIC
I/‡	TYPE II / III BARRICADE WTH ATTACHED SIGN	▬ ▬ ▬	CONCRETE BARRIER TEMPORARY PRECAST
●	TRAFFIC CONTROL DRUM	▨	WORK ZONE (NIGHT WORK ONLY)
●	TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT	▨	WORK ZONE (DAY & NIGHT WORK)
	FLASHING ARROW BOARD	—×—×—	MARKING REMOVAL LINE
	SIGN ON PERMANENT SUPPORT		TEMPORARY MARKING ARROW REMOVABLE TAPE
	SIGN ON TEMPORARY SUPPORT	ONLY	TEMPORARY MARKING WORD REMOVABLE TAPE
Ⓐ	TYPE A WARNING LIGHT (FLASHING)	6WT	TEMPORARY MARKING LINE REMOVABLE TAPE 6-INCH (WHITE)
Ⓑ	TYPE B WARNING LIGHT (HIGH INTENSITY FLASHING)	6WTD	TEMPORARY MARKING LINE REMOVABLE TAPE 6-INCH (WHITE DASH 12.5' LINE 27.5' GAP)
Ⓒ	TYPE C WARNING LIGHT (STEADY BURN)	6YT	TEMPORARY MARKING LINE REMOVABLE TAPE 6-INCH (YELLOW)
MB	PORTABLE CHANGEABLE MESSAGE BOARD	10WT	TEMPORARY MARKING LINE REMOVABLE TAPE 10-INCH (WHITE)
CC	TEMPORARY CRASH CUSHION	10WTS	TEMPORARY MARKING LINE REMOVABLE TAPE 10-INCH (WHITE SKIP 3' LINE 9' GAP)
FBS	FLASHING BEACON SIGN		



PROJECT NO: 2310-09-71	HWY: STH 60	COUNTY: WASHINGTON	TRAFFIC CONTROL - IH 41 STAGE 1 (DAY & NIGHT WORK)	SHEET 130	E

FILE NAME : K:\195704_STH 60 AND IH 41 INTERSECTION\3.0 DELIVERABLES\3.02 ROADWAY\AUTOCAD\SHEETS\026121-S1.DWG
LAYOUT NAME - 025026-tc
PLOT DATE : 10/18/2025 4:40 PM PLOT BY : OLSEN, CASSIE PLOT NAME : PLOT SCALE : 1 IN:100 FT

2

LEGEND

I/I	TYPE II / III BARRICADE	⇨	DIRECTION OF TRAFFIC
I/I	TYPE II / III BARRICADE WTH ATTACHED SIGN	▬ ▬ ▬	CONCRETE BARRIER TEMPORARY PRECAST
●	TRAFFIC CONTROL DRUM	▨	WORK ZONE (NIGHT WORK ONLY)
●	TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT	▨	WORK ZONE (DAY & NIGHT WORK)
	FLASHING ARROW BOARD	—×—×—	MARKING REMOVAL LINE
	SIGN ON PERMANENT SUPPORT		TEMPORARY MARKING ARROW REMOVABLE TAPE
	SIGN ON TEMPORARY SUPPORT	ONLY	TEMPORARY MARKING WORD REMOVABLE TAPE
(A)	TYPE A WARNING LIGHT (FLASHING)	6WT	TEMPORARY MARKING LINE REMOVABLE TAPE 6-INCH (WHITE)
(B)	TYPE B WARNING LIGHT (HIGH INTENSITY FLASHING)	6WTD	TEMPORARY MARKING LINE REMOVABLE TAPE 6-INCH (WHITE DASH 12.5' LINE 27.5' GAP)
(C)	TYPE C WARNING LIGHT (STEADY BURN)	6YT	TEMPORARY MARKING LINE REMOVABLE TAPE 6-INCH (YELLOW)
MB	PORTABLE CHANGEABLE MESSAGE BOARD	10WT	TEMPORARY MARKING LINE REMOVABLE TAPE 10-INCH (WHITE)
CC	TEMPORARY CRASH CUSHION	10WTS	TEMPORARY MARKING LINE REMOVABLE TAPE 10-INCH (WHITE SKIP 3' LINE 9' GAP)
FBS	FLASHING BEACON SIGN		

W5-52L 12"X36"

2

STH 60

RAMP A (SB ON-RAMP)

RAMP B (NB OFF-RAMP)

RAMP D (NB LOOP OFF-RAMP)

RAMP E (NB OFF-RAMP)

268'A' 270'A' 272'A' 274'A' 276'A' 278'A' 280'A' 282'B'

268'E' 270'E' 272'D' 274'D' 276'D' 278'D' 280'D'

268'IH' 270'IH' 272'IH' 274'IH' 276'IH' 278'IH' 280'IH' 282'IH'

342 344 346 348 350 352 354

25' TYP

BEAMGUARD REMOVED AS NEEDED IN PRE-STAGE

HMA SHOULDER, TEMPORARY TAPE, AND CONCRETE BARRIER PLACED IN PRE-STAGE

W5-52L 12"X36"

COVER EXISTING SIGN

CC

N

PROJECT NO: 2310-09-71	HWY: STH 60	COUNTY: WASHINGTON	TRAFFIC CONTROL - IH 41 STAGE 1 (DAY & NIGHT WORK)	SHEET	131 E

FILE NAME : K:\195704_STH 60 AND IH 41 INTERSECTION\3.0 DELIVERABLES\3.02 ROADWAY\AUTOCAD\SHEETS\026121-S1.DWG
LAYOUT NAME - 025026-tc

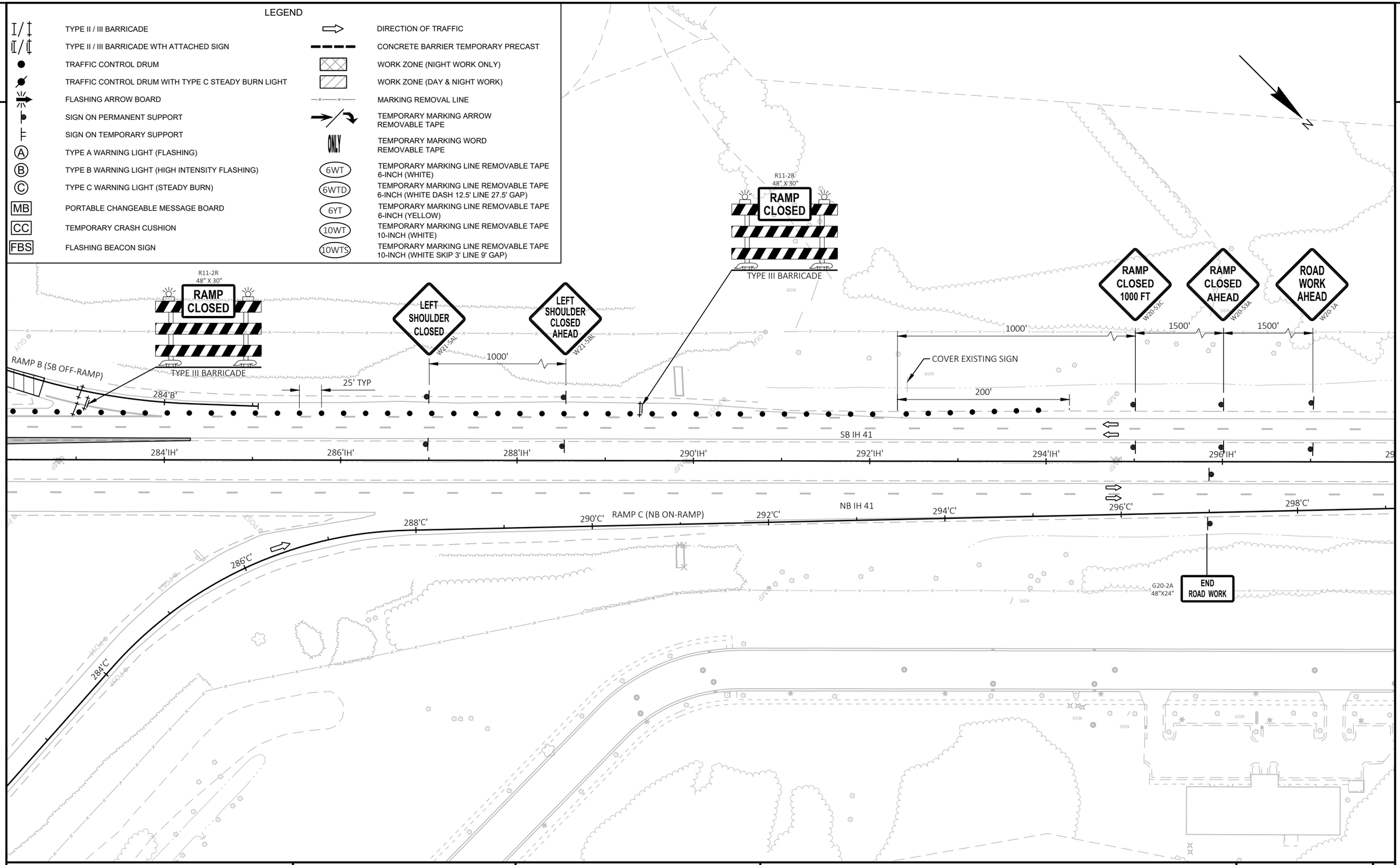
PLOT DATE : 10/18/2025 4:41 PM PLOT BY : OLSEN, CASSIE PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

LEGEND

I/‡	TYPE II / III BARRICADE	⇨	DIRECTION OF TRAFFIC
I/‡	TYPE II / III BARRICADE WTH ATTACHED SIGN	▬ ▬ ▬	CONCRETE BARRIER TEMPORARY PRECAST
●	TRAFFIC CONTROL DRUM	▨	WORK ZONE (NIGHT WORK ONLY)
●	TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT	▨	WORK ZONE (DAY & NIGHT WORK)
✳	FLASHING ARROW BOARD	—×—×—	MARKING REMOVAL LINE
‡	SIGN ON PERMANENT SUPPORT	➔	TEMPORARY MARKING ARROW REMOVABLE TAPE
‡	SIGN ON TEMPORARY SUPPORT	ONLY	TEMPORARY MARKING WORD REMOVABLE TAPE
Ⓐ	TYPE A WARNING LIGHT (FLASHING)	6WT	TEMPORARY MARKING LINE REMOVABLE TAPE 6-INCH (WHITE)
Ⓑ	TYPE B WARNING LIGHT (HIGH INTENSITY FLASHING)	6WTD	TEMPORARY MARKING LINE REMOVABLE TAPE 6-INCH (WHITE DASH 12.5' LINE 27.5' GAP)
Ⓒ	TYPE C WARNING LIGHT (STEADY BURN)	6YT	TEMPORARY MARKING LINE REMOVABLE TAPE 6-INCH (YELLOW)
MB	PORTABLE CHANGEABLE MESSAGE BOARD	10WT	TEMPORARY MARKING LINE REMOVABLE TAPE 10-INCH (WHITE)
CC	TEMPORARY CRASH CUSHION	10WTS	TEMPORARY MARKING LINE REMOVABLE TAPE 10-INCH (WHITE SKIP 3' LINE 9' GAP)
FBS	FLASHING BEACON SIGN		



PROJECT NO: 2310-09-71	HWY: STH 60	COUNTY: WASHINGTON	TRAFFIC CONTROL - IH 41 STAGE 1 (DAY & NIGHT WORK)	SHEET 132	E

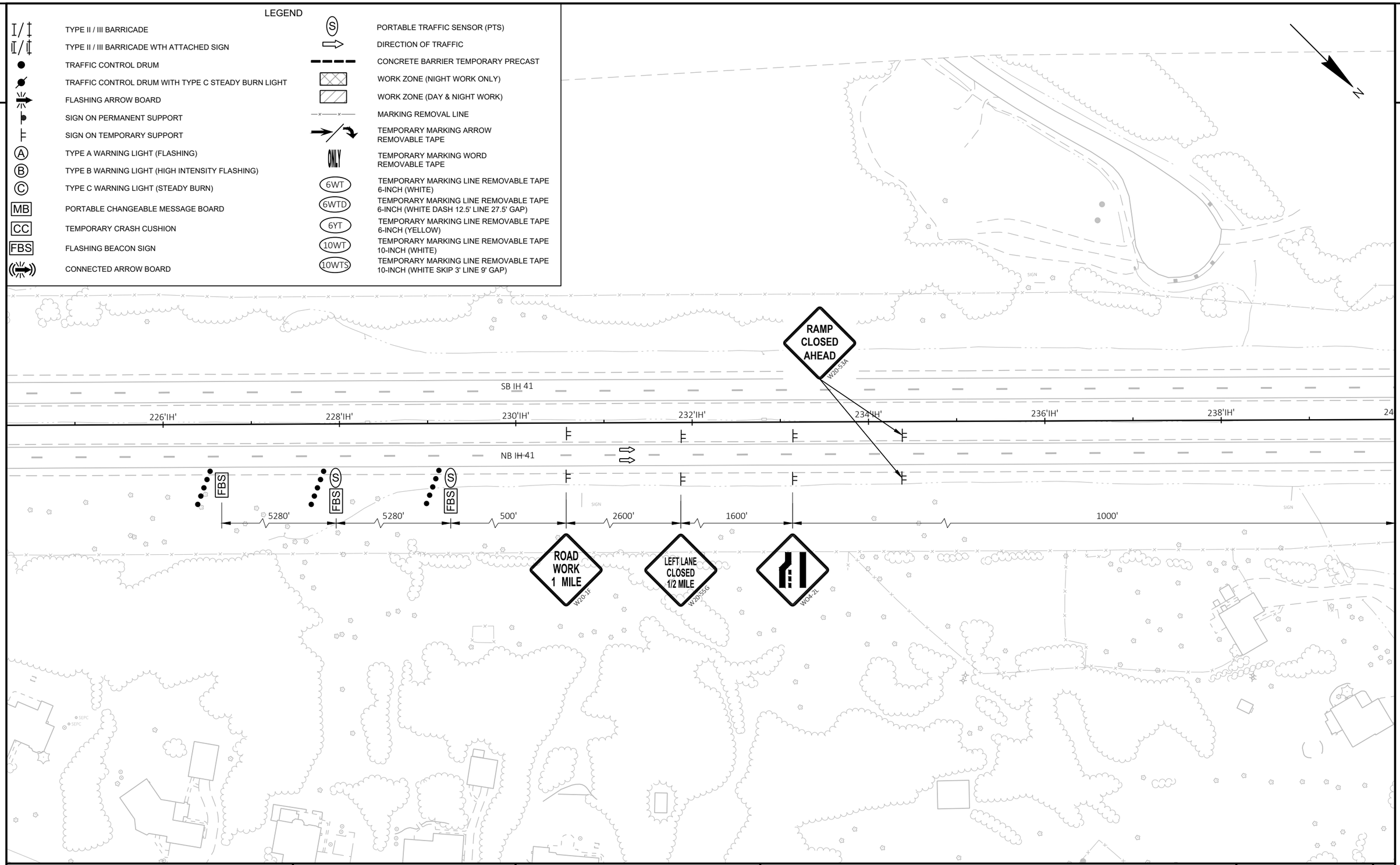
FILE NAME : K:\195704_STH 60 AND IH 41 INTERSECTION\3.0 DELIVERABLES\3.02 ROADWAY\AUTOCAD\SHEETS\026121-S1.DWG
LAYOUT NAME - 025026-tc

PLOT DATE : 10/18/2025 4:43 PM PLOT BY : OLSEN, CASSIE PLOT NAME : PLOT SCALE : 1 IN:100 FT

2

LEGEND

- TYPE II / III BARRICADE
- TYPE II / III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- FLASHING ARROW BOARD
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- (A) TYPE A WARNING LIGHT (FLASHING)
- (B) TYPE B WARNING LIGHT (HIGH INTENSITY FLASHING)
- (C) TYPE C WARNING LIGHT (STEADY BURN)
- MB PORTABLE CHANGEABLE MESSAGE BOARD
- CC TEMPORARY CRASH CUSHION
- FBS FLASHING BEACON SIGN
- CONNECTED ARROW BOARD
- (S) PORTABLE TRAFFIC SENSOR (PTS)
- DIRECTION OF TRAFFIC
- CONCRETE BARRIER TEMPORARY PRECAST
- WORK ZONE (NIGHT WORK ONLY)
- WORK ZONE (DAY & NIGHT WORK)
- MARKING REMOVAL LINE
- TEMPORARY MARKING ARROW REMOVABLE TAPE
- ONLY TEMPORARY MARKING WORD REMOVABLE TAPE
- 6WT TEMPORARY MARKING LINE REMOVABLE TAPE 6-INCH (WHITE)
- 6WTD TEMPORARY MARKING LINE REMOVABLE TAPE 6-INCH (WHITE DASH 12.5' LINE 27.5' GAP)
- 6YT TEMPORARY MARKING LINE REMOVABLE TAPE 6-INCH (YELLOW)
- 10WT TEMPORARY MARKING LINE REMOVABLE TAPE 10-INCH (WHITE)
- 10WTS TEMPORARY MARKING LINE REMOVABLE TAPE 10-INCH (WHITE SKIP 3' LINE 9' GAP)



PROJECT NO: 2310-09-71	HWY: STH 60	COUNTY: WASHINGTON	TRAFFIC CONTROL - IH 41 STAGE 1N1 (NIGHT WORK ONLY)	SHEET 133	E

FILE NAME : K:\195704_STH 60 AND IH 41 INTERSECTION\3.0 DELIVERABLES\3.02 ROADWAY\AUTOCAD\SHEETS\026151-S1N1.DWG
LAYOUT NAME - 01

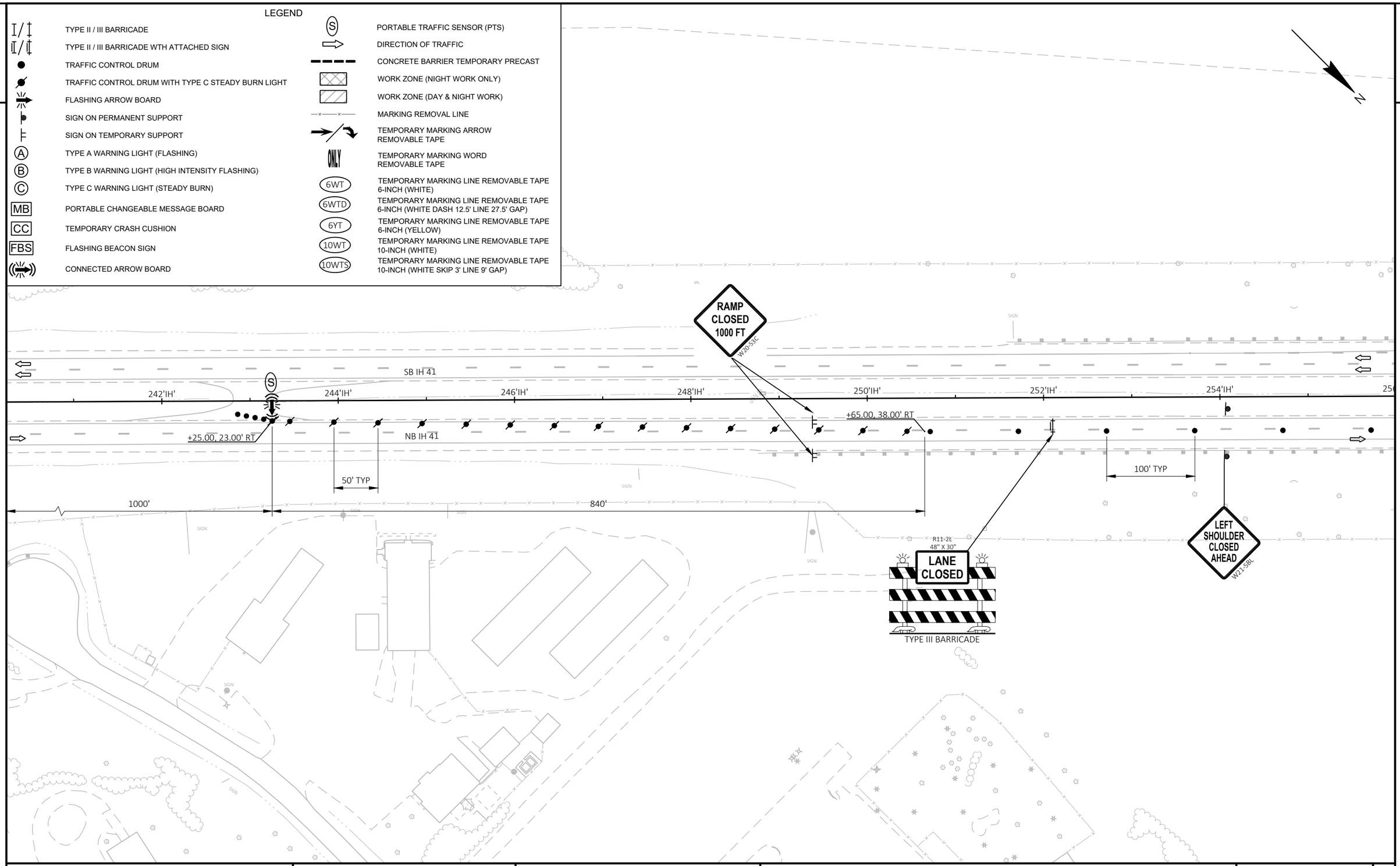
PLOT DATE : 7/15/2025 12:08 PM PLOT BY : OLSEN, CASSIE PLOT NAME : PLOT SCALE :

WISDOT/CADDS SHEET 42

2

LEGEND

- TYPE II / III BARRICADE
- TYPE II / III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- FLASHING ARROW BOARD
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- (A) TYPE A WARNING LIGHT (FLASHING)
- (B) TYPE B WARNING LIGHT (HIGH INTENSITY FLASHING)
- (C) TYPE C WARNING LIGHT (STEADY BURN)
- MB PORTABLE CHANGEABLE MESSAGE BOARD
- CC TEMPORARY CRASH CUSHION
- FBS FLASHING BEACON SIGN
- CONNECTED ARROW BOARD
- (S) PORTABLE TRAFFIC SENSOR (PTS)
- DIRECTION OF TRAFFIC
- CONCRETE BARRIER TEMPORARY PRECAST
- WORK ZONE (NIGHT WORK ONLY)
- WORK ZONE (DAY & NIGHT WORK)
- MARKING REMOVAL LINE
- TEMPORARY MARKING ARROW REMOVABLE TAPE
- ONLY TEMPORARY MARKING WORD REMOVABLE TAPE
- 6WT TEMPORARY MARKING LINE REMOVABLE TAPE 6-INCH (WHITE)
- 6WTD TEMPORARY MARKING LINE REMOVABLE TAPE 6-INCH (WHITE DASH 12.5' LINE 27.5' GAP)
- 6YT TEMPORARY MARKING LINE REMOVABLE TAPE 6-INCH (YELLOW)
- 10WT TEMPORARY MARKING LINE REMOVABLE TAPE 10-INCH (WHITE)
- 10WTS TEMPORARY MARKING LINE REMOVABLE TAPE 10-INCH (WHITE SKIP 3' LINE 9' GAP)



PROJECT NO: 2310-09-71	HWY: STH 60	COUNTY: WASHINGTON	TRAFFIC CONTROL - IH 41 STAGE 1N1 (NIGHT WORK ONLY)	SHEET 134	E

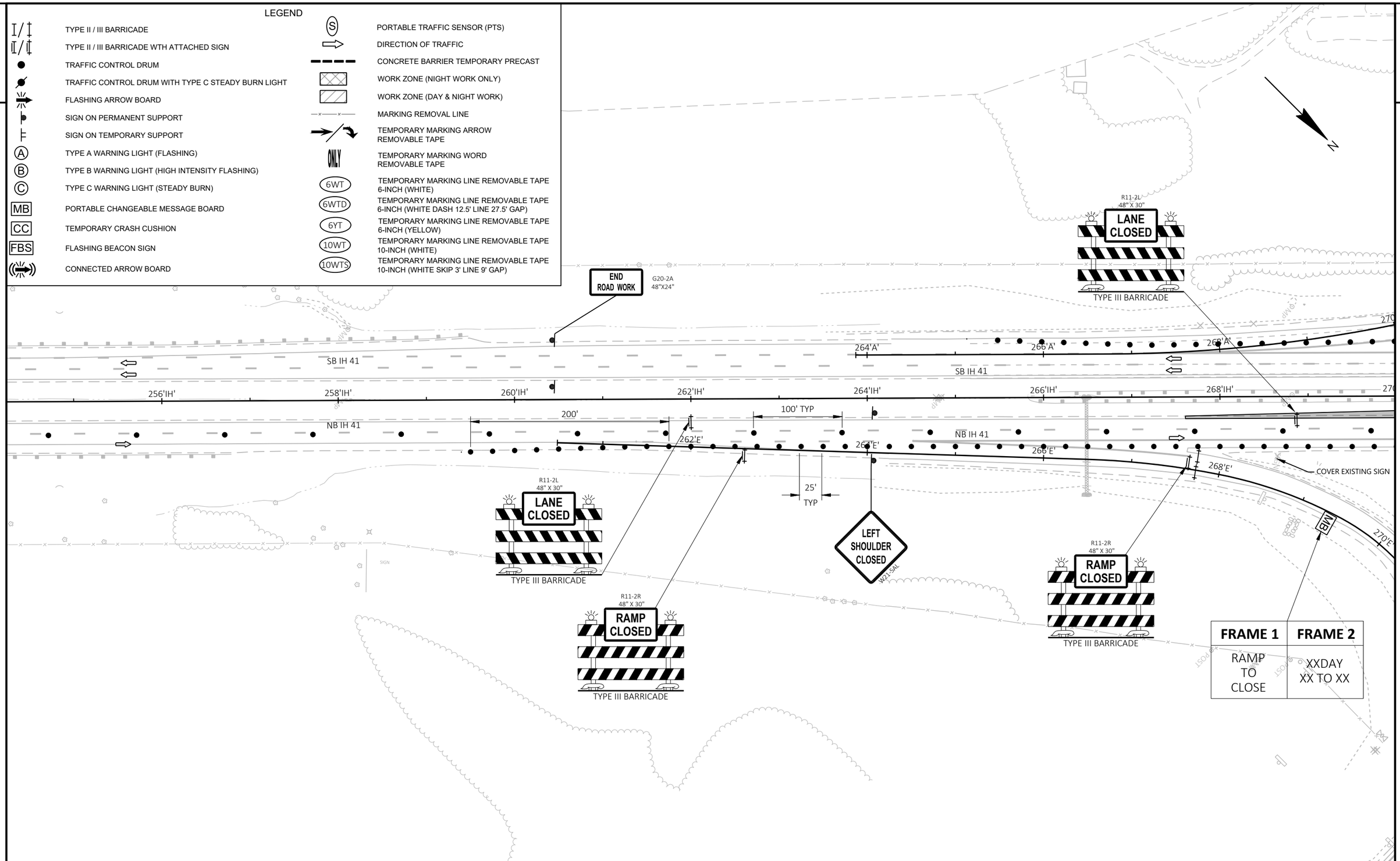
FILE NAME : K:\195704_STH 60 AND IH 41 INTERSECTION\3.0 DELIVERABLES\3.02 ROADWAY\AUTOCAD\SHEETS\026151-S1N1.DWG
LAYOUT NAME - 025026-tc

PLOT DATE : 7/15/2025 12:09 PM PLOT BY : OLSEN, CASSIE PLOT NAME : PLOT SCALE : 1 IN:100 FT

2

LEGEND

- TYPE II / III BARRICADE
- TYPE II / III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- FLASHING ARROW BOARD
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- (A) TYPE A WARNING LIGHT (FLASHING)
- (B) TYPE B WARNING LIGHT (HIGH INTENSITY FLASHING)
- (C) TYPE C WARNING LIGHT (STEADY BURN)
- MB PORTABLE CHANGEABLE MESSAGE BOARD
- CC TEMPORARY CRASH CUSHION
- FBS FLASHING BEACON SIGN
- CONNECTED ARROW BOARD
- (S) PORTABLE TRAFFIC SENSOR (PTS)
- DIRECTION OF TRAFFIC
- CONCRETE BARRIER TEMPORARY PRECAST
- WORK ZONE (NIGHT WORK ONLY)
- WORK ZONE (DAY & NIGHT WORK)
- MARKING REMOVAL LINE
- TEMPORARY MARKING ARROW REMOVABLE TAPE
- ONLY TEMPORARY MARKING WORD REMOVABLE TAPE
- 6WT TEMPORARY MARKING LINE REMOVABLE TAPE 6-INCH (WHITE)
- 6WTD TEMPORARY MARKING LINE REMOVABLE TAPE 6-INCH (WHITE DASH 12.5' LINE 27.5' GAP)
- 6YT TEMPORARY MARKING LINE REMOVABLE TAPE 6-INCH (YELLOW)
- 10WT TEMPORARY MARKING LINE REMOVABLE TAPE 10-INCH (WHITE)
- 10WTS TEMPORARY MARKING LINE REMOVABLE TAPE 10-INCH (WHITE SKIP 3' LINE 9' GAP)



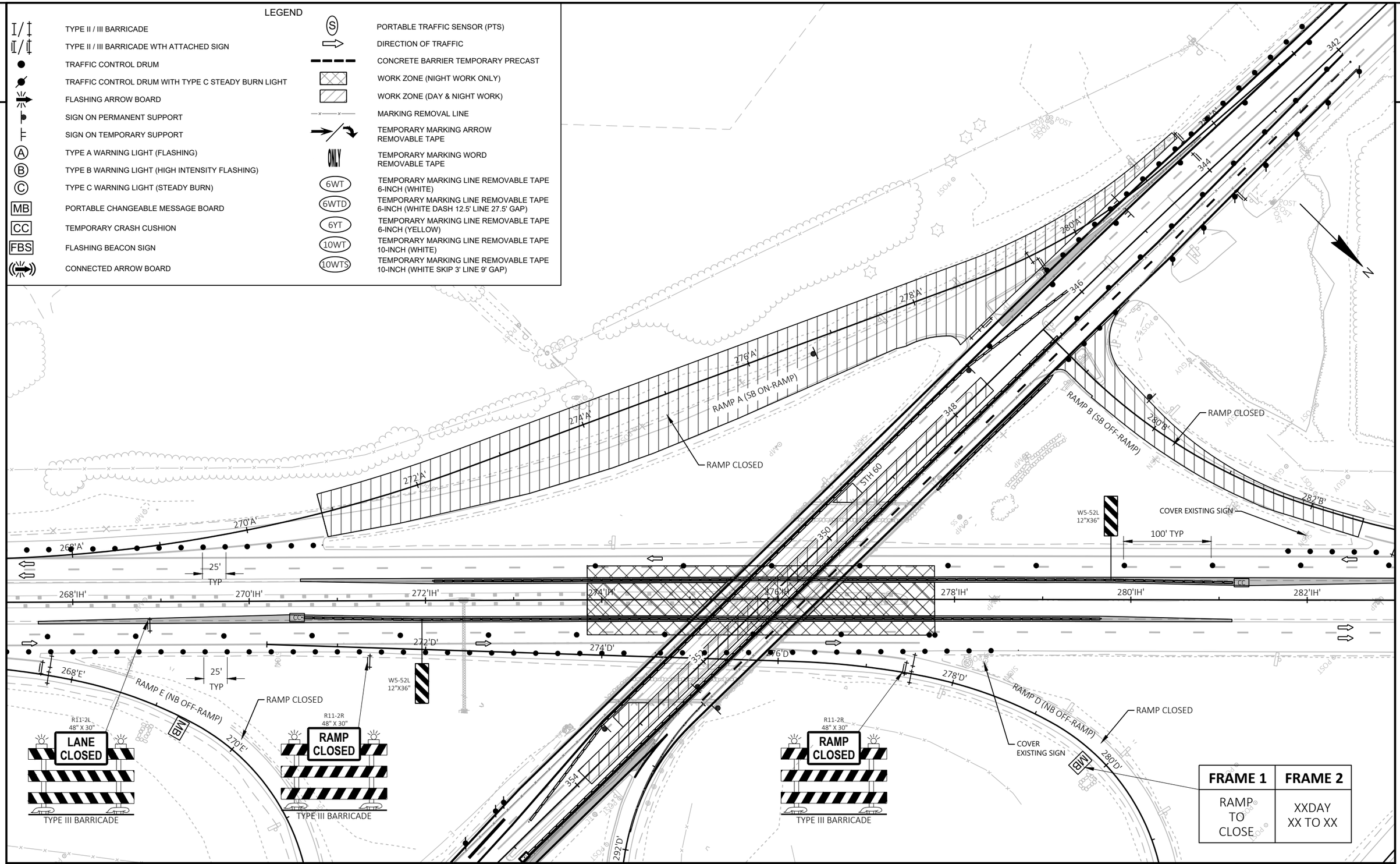
PROJECT NO: 2310-09-71	HWY: STH 60	COUNTY: WASHINGTON	TRAFFIC CONTROL - IH 41 STAGE 1N1 (NIGHT WORK ONLY)	SHEET 135	E

FILE NAME : K:\195704_STH 60 AND IH 41 INTERSECTION\3.0 DELIVERABLES\3.02 ROADWAY\AUTOCAD\SHEETS\026151-S1N1.DWG
LAYOUT NAME - 025026-tc
PLOT DATE : 7/15/2025 12:10 PM PLOT BY : OLSEN, CASSIE PLOT NAME : PLOT SCALE : 1 IN:100 FT

2

LEGEND

- TYPE II / III BARRICADE
- TYPE II / III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- FLASHING ARROW BOARD
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- (A) TYPE A WARNING LIGHT (FLASHING)
- (B) TYPE B WARNING LIGHT (HIGH INTENSITY FLASHING)
- (C) TYPE C WARNING LIGHT (STEADY BURN)
- MB PORTABLE CHANGEABLE MESSAGE BOARD
- CC TEMPORARY CRASH CUSHION
- FBS FLASHING BEACON SIGN
- CONNECTED ARROW BOARD
- (S) PORTABLE TRAFFIC SENSOR (PTS)
- DIRECTION OF TRAFFIC
- CONCRETE BARRIER TEMPORARY PRECAST
- WORK ZONE (NIGHT WORK ONLY)
- WORK ZONE (DAY & NIGHT WORK)
- MARKING REMOVAL LINE
- TEMPORARY MARKING ARROW REMOVABLE TAPE
- ONLY TEMPORARY MARKING WORD REMOVABLE TAPE
- 6WT TEMPORARY MARKING LINE REMOVABLE TAPE 6-INCH (WHITE)
- 6WTD TEMPORARY MARKING LINE REMOVABLE TAPE 6-INCH (WHITE DASH 12.5' LINE 27.5' GAP)
- 6YT TEMPORARY MARKING LINE REMOVABLE TAPE 6-INCH (YELLOW)
- 10WT TEMPORARY MARKING LINE REMOVABLE TAPE 10-INCH (WHITE)
- 10WTS TEMPORARY MARKING LINE REMOVABLE TAPE 10-INCH (WHITE SKIP 3' LINE 9' GAP)



FRAME 1	FRAME 2
RAMP TO CLOSE	XXDAY XX TO XX

PROJECT NO: 2310-09-71	HWY: STH 60	COUNTY: WASHINGTON	TRAFFIC CONTROL - IH 41 STAGE 1N1 (NIGHT WORK ONLY)	SHEET 136	E

FILE NAME : K:\195704_STH 60 AND IH 41 INTERSECTION\3.0 DELIVERABLES\3.02 ROADWAY\AUTOCAD\SHEETS\026151-S1N1.DWG
LAYOUT NAME - 025026-tc
PLOT DATE : 7/15/2025 1:23 PM PLOT BY : OLSEN, CASSIE PLOT NAME : PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 42

2

LEGEND

- TYPE II / III BARRICADE
- TYPE II / III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- FLASHING ARROW BOARD
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- (A) TYPE A WARNING LIGHT (FLASHING)
- (B) TYPE B WARNING LIGHT (HIGH INTENSITY FLASHING)
- (C) TYPE C WARNING LIGHT (STEADY BURN)
- MB PORTABLE CHANGEABLE MESSAGE BOARD
- CC TEMPORARY CRASH CUSHION
- FBS FLASHING BEACON SIGN
- CONNECTED ARROW BOARD
- (S) PORTABLE TRAFFIC SENSOR (PTS)
- DIRECTION OF TRAFFIC
- CONCRETE BARRIER TEMPORARY PRECAST
- WORK ZONE (NIGHT WORK ONLY)
- WORK ZONE (DAY & NIGHT WORK)
- MARKING REMOVAL LINE
- TEMPORARY MARKING ARROW REMOVABLE TAPE
- ONLY TEMPORARY MARKING WORD REMOVABLE TAPE
- 6WT TEMPORARY MARKING LINE REMOVABLE TAPE 6-INCH (WHITE)
- 6WTD TEMPORARY MARKING LINE REMOVABLE TAPE 6-INCH (WHITE DASH 12.5' LINE 27.5' GAP)
- 6YT TEMPORARY MARKING LINE REMOVABLE TAPE 6-INCH (YELLOW)
- 10WT TEMPORARY MARKING LINE REMOVABLE TAPE 10-INCH (WHITE)
- 10WTS TEMPORARY MARKING LINE REMOVABLE TAPE 10-INCH (WHITE SKIP 3' LINE 9' GAP)

N

R11-2R 48" X 30" RAMP CLOSED — TYPE III BARRICADE

LEFT SHOULDER CLOSED W21-5AL

R11-2R 48" X 30" RAMP CLOSED — TYPE III BARRICADE

LEFT SHOULDER CLOSED AHEAD W21-5BL

COVER EXISTING SIGN

200'

100' TYP

RAMP B (SB OFF-RAMP)

284'B'

SB IH 41

284'IH' 286'IH' 288'IH' 290'IH' 292'IH' 294'IH' 296'IH'

NB IH 41

R11-2L 48" X 30" LANE CLOSED — TYPE III BARRICADE

288'C' 290'C' RAMP C (NB ON-RAMP) 292'C' 294'C' 296'C' 298'C'

286'C'

284'C'

R11-2L 48" X 30" LANE CLOSED — TYPE III BARRICADE

END ROAD WORK G20-2A 48"X24"

PROJECT NO: 2310-09-71	HWY: STH 60	COUNTY: WASHINGTON	TRAFFIC CONTROL - IH 41 STAGE 1N1 (NIGHT WORK ONLY)	SHEET 137 E

FILE NAME : K:\195704_STH 60 AND IH 41 INTERSECTION\3.0 DELIVERABLES\3.02 ROADWAY\AUTOCAD\SHEETS\026151-S1N1.DWG
LAYOUT NAME - 025026-tc

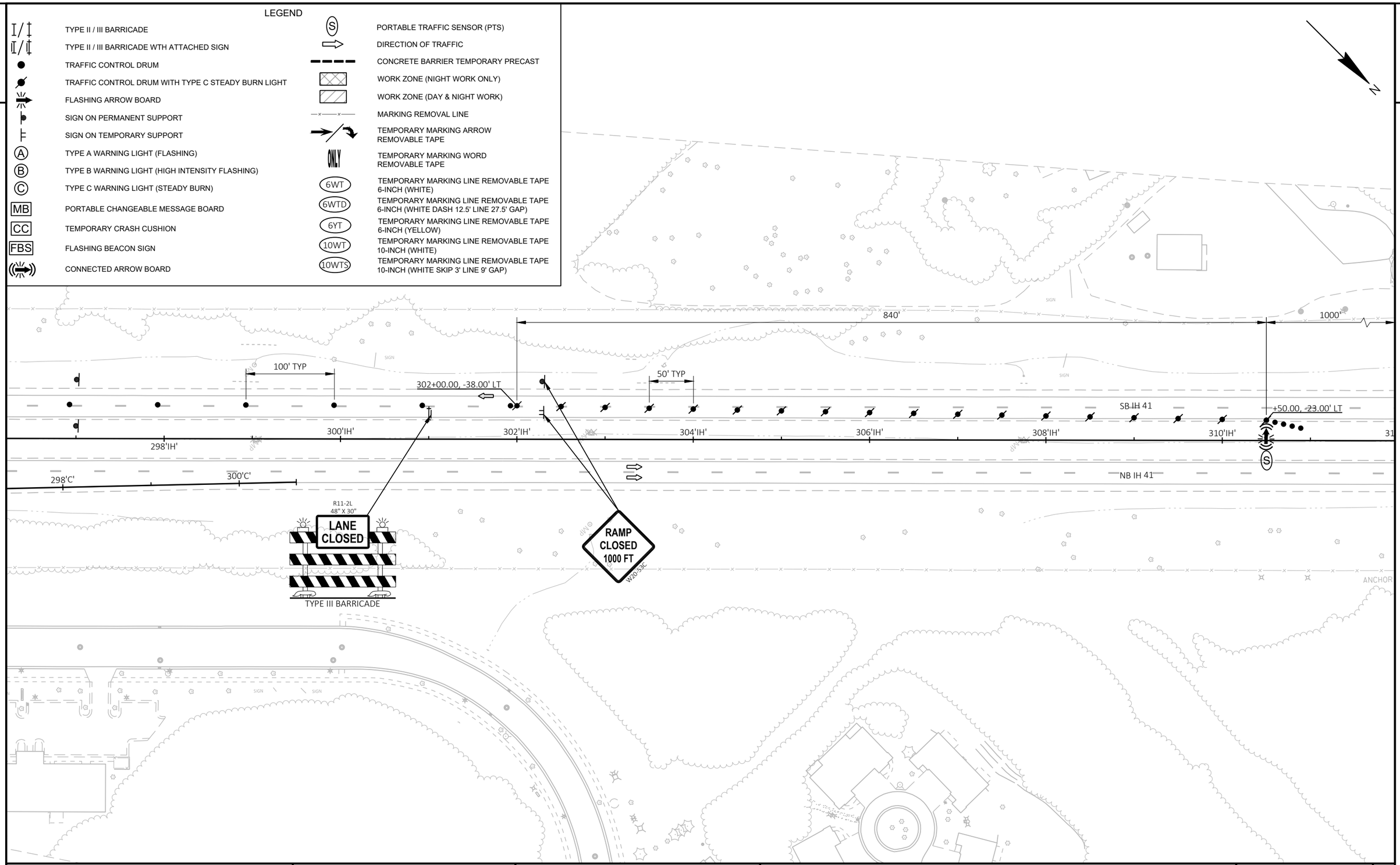
PLOT DATE : 7/15/2025 12:12 PM PLOT BY : OLSEN, CASSIE PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

LEGEND

- TYPE II / III BARRICADE
- TYPE II / III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- FLASHING ARROW BOARD
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- (A) TYPE A WARNING LIGHT (FLASHING)
- (B) TYPE B WARNING LIGHT (HIGH INTENSITY FLASHING)
- (C) TYPE C WARNING LIGHT (STEADY BURN)
- MB PORTABLE CHANGEABLE MESSAGE BOARD
- CC TEMPORARY CRASH CUSHION
- FBS FLASHING BEACON SIGN
- CONNECTED ARROW BOARD
- (S) PORTABLE TRAFFIC SENSOR (PTS)
- DIRECTION OF TRAFFIC
- CONCRETE BARRIER TEMPORARY PRECAST
- WORK ZONE (NIGHT WORK ONLY)
- WORK ZONE (DAY & NIGHT WORK)
- MARKING REMOVAL LINE
- TEMPORARY MARKING ARROW REMOVABLE TAPE
- ONLY TEMPORARY MARKING WORD REMOVABLE TAPE
- 6WT TEMPORARY MARKING LINE REMOVABLE TAPE 6-INCH (WHITE)
- 6WTD TEMPORARY MARKING LINE REMOVABLE TAPE 6-INCH (WHITE DASH 12.5' LINE 27.5' GAP)
- 6YT TEMPORARY MARKING LINE REMOVABLE TAPE 6-INCH (YELLOW)
- 10WT TEMPORARY MARKING LINE REMOVABLE TAPE 10-INCH (WHITE)
- 10WTS TEMPORARY MARKING LINE REMOVABLE TAPE 10-INCH (WHITE SKIP 3' LINE 9' GAP)



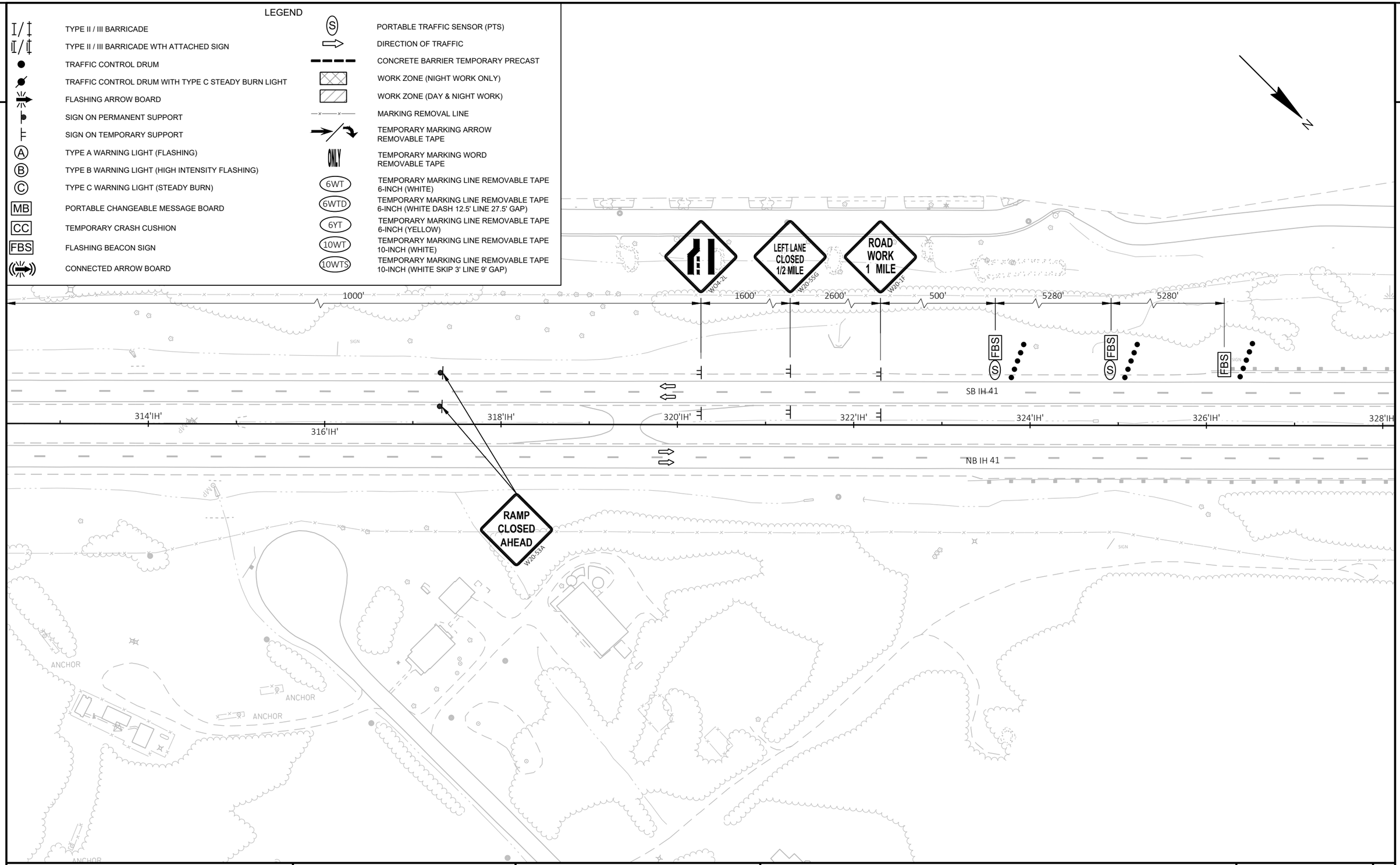
PROJECT NO: 2310-09-71	HWY: STH 60	COUNTY: WASHINGTON	TRAFFIC CONTROL - IH 41 STAGE 1N1 (NIGHT WORK ONLY)	SHEET 138	E

FILE NAME : K:\195704_STH 60 AND IH 41 INTERSECTION\3.0 DELIVERABLES\3.02 ROADWAY\AUTOCAD\SHEETS\026151-S1N1.DWG
LAYOUT NAME - 025026-tc
PLOT DATE : 7/15/2025 12:12 PM PLOT BY : OLSEN, CASSIE PLOT NAME : PLOT SCALE : 1 IN:100 FT

2

LEGEND

- TYPE II / III BARRICADE
- TYPE II / III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- FLASHING ARROW BOARD
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- (A) TYPE A WARNING LIGHT (FLASHING)
- (B) TYPE B WARNING LIGHT (HIGH INTENSITY FLASHING)
- (C) TYPE C WARNING LIGHT (STEADY BURN)
- MB PORTABLE CHANGEABLE MESSAGE BOARD
- CC TEMPORARY CRASH CUSHION
- FBS FLASHING BEACON SIGN
- CONNECTED ARROW BOARD
- (S) PORTABLE TRAFFIC SENSOR (PTS)
- DIRECTION OF TRAFFIC
- CONCRETE BARRIER TEMPORARY PRECAST
- WORK ZONE (NIGHT WORK ONLY)
- WORK ZONE (DAY & NIGHT WORK)
- MARKING REMOVAL LINE
- TEMPORARY MARKING ARROW REMOVABLE TAPE
- ONLY TEMPORARY MARKING WORD REMOVABLE TAPE
- 6WT TEMPORARY MARKING LINE REMOVABLE TAPE 6-INCH (WHITE)
- 6WTD TEMPORARY MARKING LINE REMOVABLE TAPE 6-INCH (WHITE DASH 12.5' LINE 27.5' GAP)
- 6YT TEMPORARY MARKING LINE REMOVABLE TAPE 6-INCH (YELLOW)
- 10WT TEMPORARY MARKING LINE REMOVABLE TAPE 10-INCH (WHITE)
- 10WTS TEMPORARY MARKING LINE REMOVABLE TAPE 10-INCH (WHITE SKIP 3' LINE 9' GAP)



PROJECT NO: 2310-09-71	HWY: STH 60	COUNTY: WASHINGTON	TRAFFIC CONTROL - IH 41 STAGE 1N1 (NIGHT WORK ONLY)	SHEET 139	E

FILE NAME : K:\195704_STH 60 AND IH 41 INTERSECTION\3.0 DELIVERABLES\3.02 ROADWAY\AUTOCAD\SHEETS\026151-S1N1.DWG
LAYOUT NAME - 025026-tc

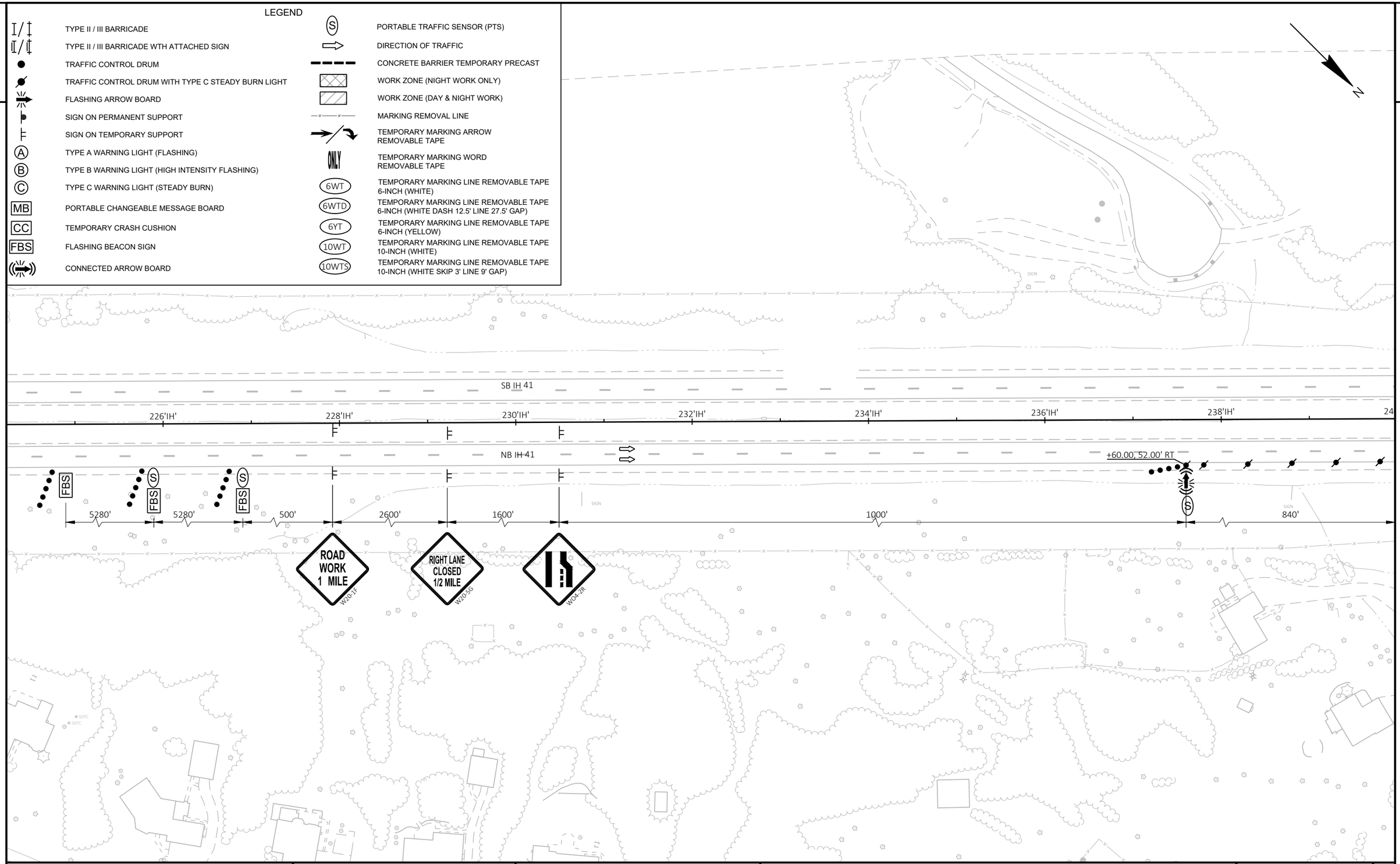
PLOT DATE : 7/15/2025 12:13 PM PLOT BY : OLSEN, CASSIE PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

LEGEND

- TYPE II / III BARRICADE
- TYPE II / III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- FLASHING ARROW BOARD
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- (A) TYPE A WARNING LIGHT (FLASHING)
- (B) TYPE B WARNING LIGHT (HIGH INTENSITY FLASHING)
- (C) TYPE C WARNING LIGHT (STEADY BURN)
- MB PORTABLE CHANGEABLE MESSAGE BOARD
- CC TEMPORARY CRASH CUSHION
- FBS FLASHING BEACON SIGN
- CONNECTED ARROW BOARD
- (S) PORTABLE TRAFFIC SENSOR (PTS)
- DIRECTION OF TRAFFIC
- CONCRETE BARRIER TEMPORARY PRECAST
- WORK ZONE (NIGHT WORK ONLY)
- WORK ZONE (DAY & NIGHT WORK)
- MARKING REMOVAL LINE
- TEMPORARY MARKING ARROW REMOVABLE TAPE
- ONLY TEMPORARY MARKING WORD REMOVABLE TAPE
- 6WT TEMPORARY MARKING LINE REMOVABLE TAPE 6-INCH (WHITE)
- 6WTD TEMPORARY MARKING LINE REMOVABLE TAPE 6-INCH (WHITE DASH 12.5' LINE 27.5' GAP)
- 6YT TEMPORARY MARKING LINE REMOVABLE TAPE 6-INCH (YELLOW)
- 10WT TEMPORARY MARKING LINE REMOVABLE TAPE 10-INCH (WHITE)
- 10WTS TEMPORARY MARKING LINE REMOVABLE TAPE 10-INCH (WHITE SKIP 3' LINE 9' GAP)



2

PROJECT NO: 2310-09-71	HWY: STH 60	COUNTY: WASHINGTON	TRAFFIC CONTROL - IH 41 STAGE 1N2 (NIGHT WORK ONLY)	SHEET 140	E

FILE NAME : K:\195704_STH 60 AND IH 41 INTERSECTION\3.0 DELIVERABLES\3.02 ROADWAY\AUTOCAD\SHEETS\026171-S1N2.DWG
LAYOUT NAME - 01

PLOT DATE : 7/15/2025 12:14 PM PLOT BY : OLSEN, CASSIE PLOT NAME : PLOT SCALE :

2

LEGEND

I/I	TYPE II / III BARRICADE	S	PORTABLE TRAFFIC SENSOR (PTS)
I/I	TYPE II / III BARRICADE WTH ATTACHED SIGN	⇨	DIRECTION OF TRAFFIC
●	TRAFFIC CONTROL DRUM	▬ ▬ ▬	CONCRETE BARRIER TEMPORARY PRECAST
●	TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT	▨	WORK ZONE (NIGHT WORK ONLY)
⇨	FLASHING ARROW BOARD	▨	WORK ZONE (DAY & NIGHT WORK)
●	SIGN ON PERMANENT SUPPORT	×—×—×	MARKING REMOVAL LINE
⊢	SIGN ON TEMPORARY SUPPORT	➔	TEMPORARY MARKING ARROW REMOVABLE TAPE
A	TYPE A WARNING LIGHT (FLASHING)	ONLY	TEMPORARY MARKING WORD REMOVABLE TAPE
B	TYPE B WARNING LIGHT (HIGH INTENSITY FLASHING)	6WT	TEMPORARY MARKING LINE REMOVABLE TAPE 6-INCH (WHITE)
C	TYPE C WARNING LIGHT (STEADY BURN)	6WTD	TEMPORARY MARKING LINE REMOVABLE TAPE 6-INCH (WHITE DASH 12.5' LINE 27.5' GAP)
MB	PORTABLE CHANGEABLE MESSAGE BOARD	6YT	TEMPORARY MARKING LINE REMOVABLE TAPE 6-INCH (YELLOW)
CC	TEMPORARY CRASH CUSHION	10WT	TEMPORARY MARKING LINE REMOVABLE TAPE 10-INCH (WHITE)
FBS	FLASHING BEACON SIGN	10WTS	TEMPORARY MARKING LINE REMOVABLE TAPE 10-INCH (WHITE SKIP 3' LINE 9' GAP)
⇨	CONNECTED ARROW BOARD		

SB IH 41

242'IH' 244'IH' 246'IH' 248'IH' 250'IH' 252'IH' 254'IH'

+00.00, 39.50' RT

NB IH 41

50' TYP

100' TYP

840'

1600' 1000'

R11-2L
48" X 30"
LANE CLOSED
TYPE III BARRICADE

ROAD WORK AHEAD
W20-1A

LEFT SHOULDER CLOSED AHEAD
W21-5BL

SIGN

2

PROJECT NO: 2310-09-71	HWY: STH 60	COUNTY: WASHINGTON	TRAFFIC CONTROL - IH 41 STAGE 1N2 (NIGHT WORK ONLY)	SHEET 141	E

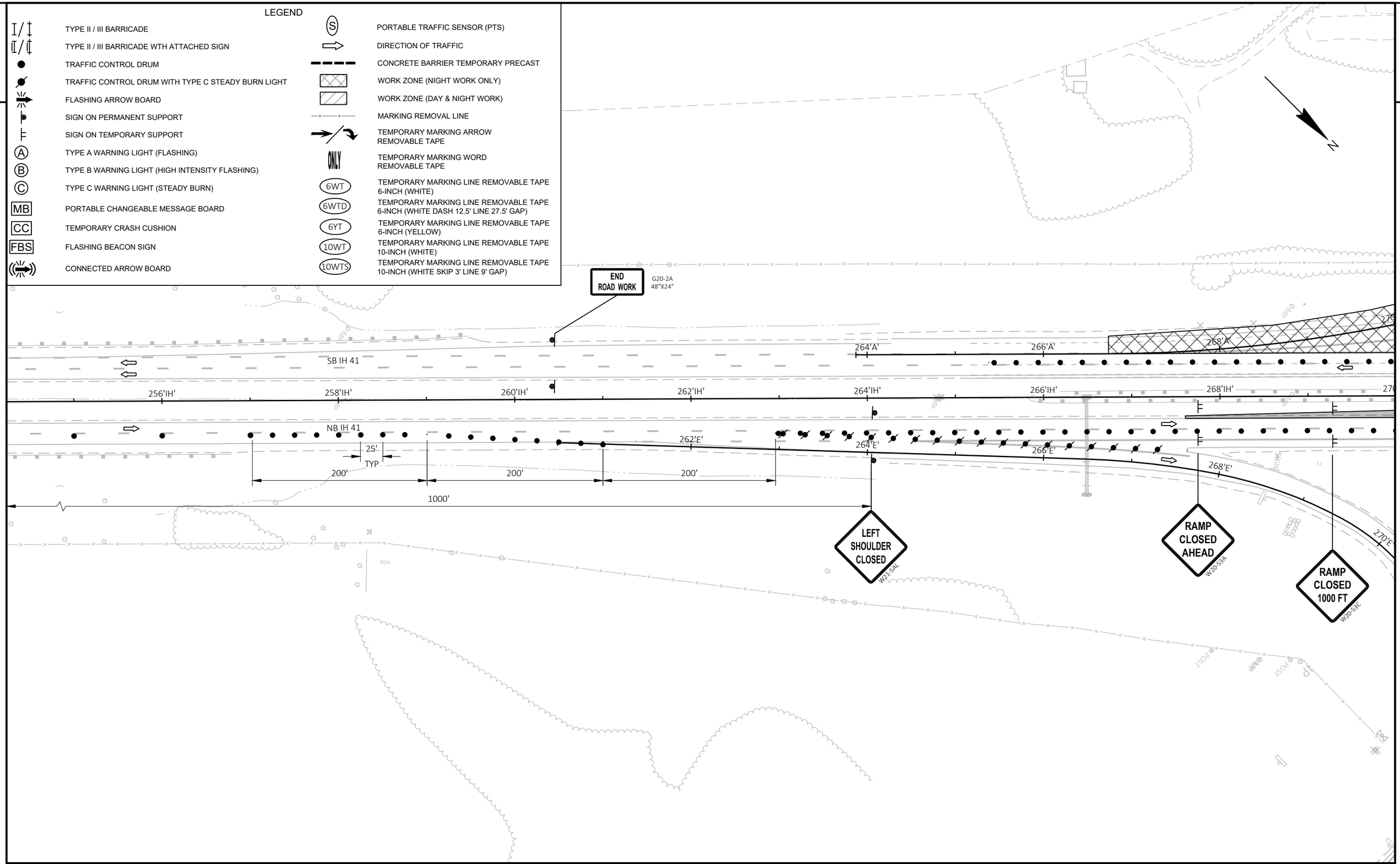
FILE NAME : K:\195704_STH 60 AND IH 41 INTERSECTION\3.0 DELIVERABLES\3.02 ROADWAY\AUTOCAD\SHEETS\026171-S1N2.DWG
LAYOUT NAME - 025026-tc

PLOT DATE : 7/15/2025 12:15 PM PLOT BY : OLSEN, CASSIE PLOT NAME : PLOT SCALE : 1 IN:100 FT

2

LEGEND

TYPE II / III BARRICADE	PORTABLE TRAFFIC SENSOR (PTS)
TYPE II / III BARRICADE WTH ATTACHED SIGN	DIRECTION OF TRAFFIC
TRAFFIC CONTROL DRUM	CONCRETE BARRIER TEMPORARY PRECAST
TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT	WORK ZONE (NIGHT WORK ONLY)
FLASHING ARROW BOARD	WORK ZONE (DAY & NIGHT WORK)
SIGN ON PERMANENT SUPPORT	MARKING REMOVAL LINE
SIGN ON TEMPORARY SUPPORT	TEMPORARY MARKING ARROW REMOVABLE TAPE
TYPE A WARNING LIGHT (FLASHING)	TEMPORARY MARKING WORD REMOVABLE TAPE
TYPE B WARNING LIGHT (HIGH INTENSITY FLASHING)	TEMPORARY MARKING LINE REMOVABLE TAPE 6-INCH (WHITE)
TYPE C WARNING LIGHT (STEADY BURN)	TEMPORARY MARKING LINE REMOVABLE TAPE 6-INCH (WHITE DASH 12.5' LINE 27.5' GAP)
PORTABLE CHANGEABLE MESSAGE BOARD	TEMPORARY MARKING LINE REMOVABLE TAPE 6-INCH (YELLOW)
TEMPORARY CRASH CUSHION	TEMPORARY MARKING LINE REMOVABLE TAPE 10-INCH (WHITE)
FLASHING BEACON SIGN	TEMPORARY MARKING LINE REMOVABLE TAPE 10-INCH (WHITE SKIP 3' LINE 9' GAP)
CONNECTED ARROW BOARD	



PROJECT NO: 2310-09-71	HWY: STH 60	COUNTY: WASHINGTON	TRAFFIC CONTROL - IH 41 STAGE 1N2 (NIGHT WORK ONLY)	SHEET 142	E

FILE NAME : K:\195704_STH 60 AND IH 41 INTERSECTION\3.0 DELIVERABLES\3.02 ROADWAY\AUTOCAD\SHEETS\026171-S1N2.DWG
LAYOUT NAME - 025026-tc

PLOT DATE : 10/18/2025 4:08 PM PLOT BY : OLSEN, CASSIE PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

LEGEND

TYPE II / III BARRICADE	PORTABLE TRAFFIC SENSOR (PTS)
TYPE II / III BARRICADE WTH ATTACHED SIGN	DIRECTION OF TRAFFIC
TRAFFIC CONTROL DRUM	CONCRETE BARRIER TEMPORARY PRECAST
TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT	WORK ZONE (NIGHT WORK ONLY)
FLASHING ARROW BOARD	WORK ZONE (DAY & NIGHT WORK)
SIGN ON PERMANENT SUPPORT	MARKING REMOVAL LINE
SIGN ON TEMPORARY SUPPORT	TEMPORARY MARKING ARROW REMOVABLE TAPE
TYPE A WARNING LIGHT (FLASHING)	TEMPORARY MARKING WORD REMOVABLE TAPE
TYPE B WARNING LIGHT (HIGH INTENSITY FLASHING)	6WT — TEMPORARY MARKING LINE REMOVABLE TAPE 6-INCH (WHITE)
TYPE C WARNING LIGHT (STEADY BURN)	6WTD — TEMPORARY MARKING LINE REMOVABLE TAPE 6-INCH (WHITE DASH 12.5' LINE 27.5' GAP)
MB — PORTABLE CHANGEABLE MESSAGE BOARD	6YT — TEMPORARY MARKING LINE REMOVABLE TAPE 6-INCH (YELLOW)
CC — TEMPORARY CRASH CUSHION	10WT — TEMPORARY MARKING LINE REMOVABLE TAPE 10-INCH (WHITE)
FBS — FLASHING BEACON SIGN	10WTS — TEMPORARY MARKING LINE REMOVABLE TAPE 10-INCH (WHITE SKIP 3' LINE 9' GAP)
CONNECTED ARROW BOARD	

R11-2L 48" X 30" LANE CLOSED — TYPE III BARRICADE

R11-2L 48" X 30" LANE CLOSED — TYPE III BARRICADE

R11-2L 48" X 30" LANE CLOSED — TYPE III BARRICADE

R11-2R 48" X 30" RAMP CLOSED — TYPE III BARRICADE

R11-2R 48" X 30" RAMP CLOSED — TYPE III BARRICADE

WO5-52L 12"X36"

WO5-52L 12"X36"

RAMP A (SB ON-RAMP)

RAMP B (NB OFF-RAMP)

RAMP D (NB LOOP OFF-RAMP)

RAMP E (NB OFF-RAMP)

RAMP CLOSED

RAMP CLOSED

RAMP CLOSED

COVER EXISTING SIGN

COVER EXISTING SIGN

25' TYP

STH 60

N

FRAME 1	FRAME 2
RAMP TO CLOSE	XXDAY XX TO XX

PROJECT NO: 2310-09-71	HWY: STH 60	COUNTY: WASHINGTON	TRAFFIC CONTROL - IH 41 STAGE 1N2 (NIGHT WORK ONLY)	SHEET 143	E

FILE NAME : K:\195704_STH 60 AND IH 41 INTERSECTION\3.0 DELIVERABLES\3.02 ROADWAY\AUTOCAD\SHEETS\026171-S1N2.DWG
LAYOUT NAME - 025026-tc

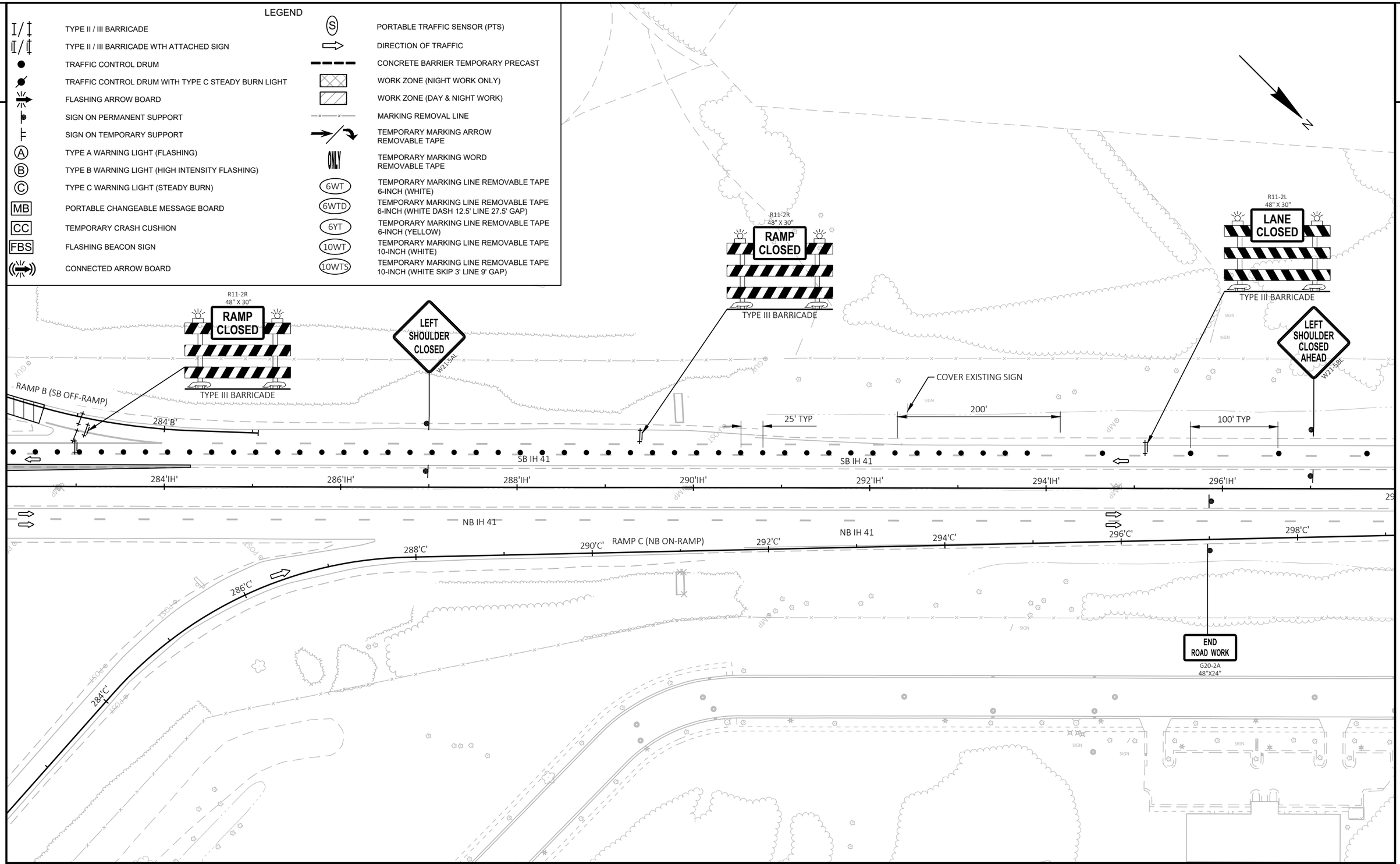
PLOT DATE : 7/15/2025 1:29 PM PLOT BY : OLSEN, CASSIE PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

LEGEND

TYPE II / III BARRICADE	PORTABLE TRAFFIC SENSOR (PTS)
TYPE II / III BARRICADE WTH ATTACHED SIGN	DIRECTION OF TRAFFIC
TRAFFIC CONTROL DRUM	CONCRETE BARRIER TEMPORARY PRECAST
TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT	WORK ZONE (NIGHT WORK ONLY)
FLASHING ARROW BOARD	WORK ZONE (DAY & NIGHT WORK)
SIGN ON PERMANENT SUPPORT	MARKING REMOVAL LINE
SIGN ON TEMPORARY SUPPORT	TEMPORARY MARKING ARROW REMOVABLE TAPE
TYPE A WARNING LIGHT (FLASHING)	TEMPORARY MARKING WORD REMOVABLE TAPE
TYPE B WARNING LIGHT (HIGH INTENSITY FLASHING)	6WT — TEMPORARY MARKING LINE REMOVABLE TAPE 6-INCH (WHITE)
TYPE C WARNING LIGHT (STEADY BURN)	6WTD — TEMPORARY MARKING LINE REMOVABLE TAPE 6-INCH (WHITE DASH 12.5' LINE 27.5' GAP)
MB — PORTABLE CHANGEABLE MESSAGE BOARD	6YT — TEMPORARY MARKING LINE REMOVABLE TAPE 6-INCH (YELLOW)
CC — TEMPORARY CRASH CUSHION	10WT — TEMPORARY MARKING LINE REMOVABLE TAPE 10-INCH (WHITE)
FBS — FLASHING BEACON SIGN	10WTS — TEMPORARY MARKING LINE REMOVABLE TAPE 10-INCH (WHITE SKIP 3' LINE 9' GAP)
CONNECTED ARROW BOARD	



PROJECT NO: 2310-09-71	HWY: STH 60	COUNTY: WASHINGTON	TRAFFIC CONTROL - IH 41 STAGE 1N2 (NIGHT WORK ONLY)	SHEET 144	E

FILE NAME : K:\195704_STH 60 AND IH 41 INTERSECTION\3.0 DELIVERABLES\3.02 ROADWAY\AUTOCAD\SHEETS\026171-S1N2.DWG
LAYOUT NAME - 025026-tc

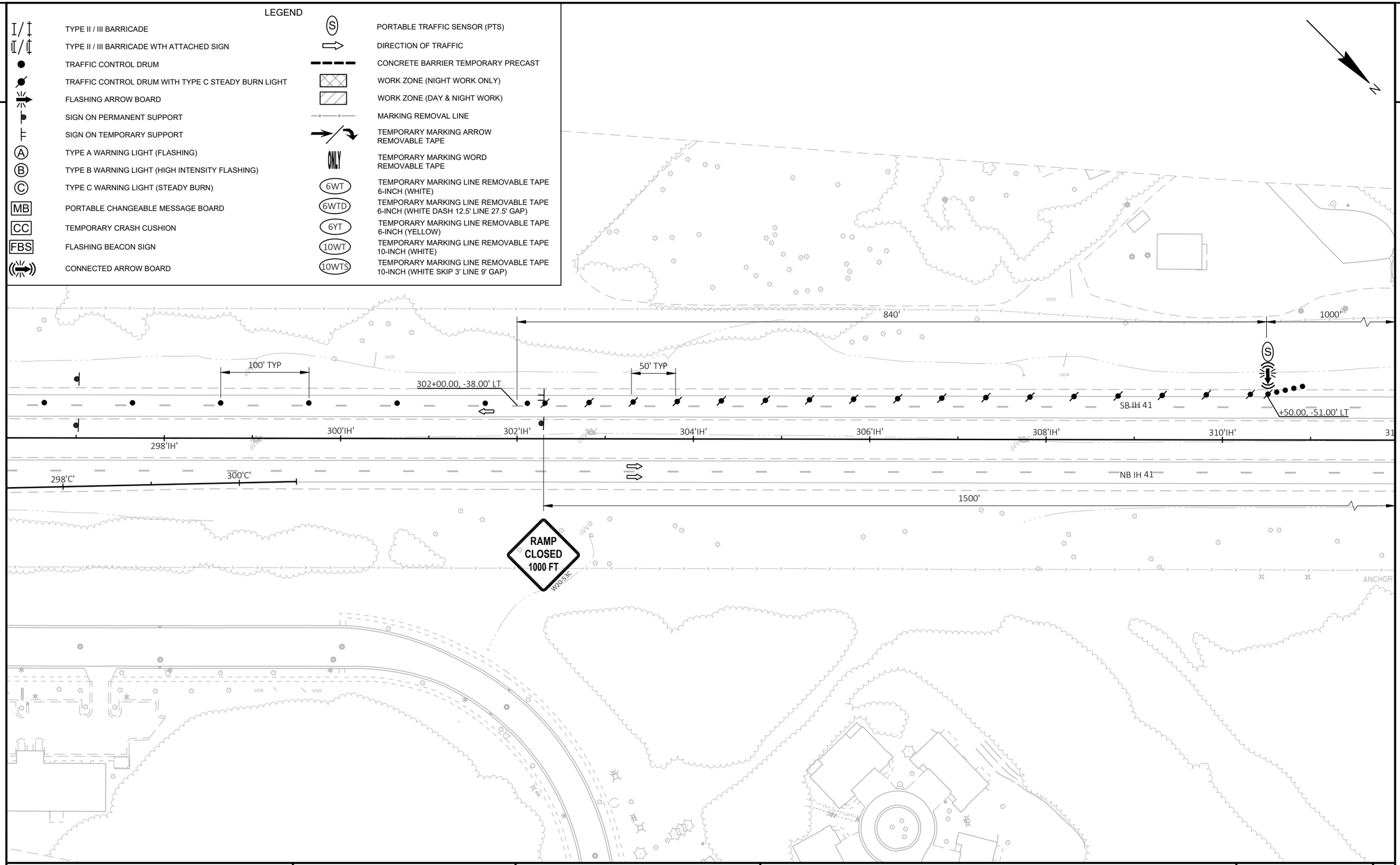
PLOT DATE : 7/15/2025 12:17 PM PLOT BY : OLSEN, CASSIE PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

LEGEND

- TYPE II / III BARRICADE
- TYPE II / III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- FLASHING ARROW BOARD
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- (A) TYPE A WARNING LIGHT (FLASHING)
- (B) TYPE B WARNING LIGHT (HIGH INTENSITY FLASHING)
- (C) TYPE C WARNING LIGHT (STEADY BURN)
- MB PORTABLE CHANGEABLE MESSAGE BOARD
- CC TEMPORARY CRASH CUSHION
- FBS FLASHING BEACON SIGN
- CONNECTED ARROW BOARD
- (S) PORTABLE TRAFFIC SENSOR (PTS)
- DIRECTION OF TRAFFIC
- CONCRETE BARRIER TEMPORARY PRECAST
- WORK ZONE (NIGHT WORK ONLY)
- WORK ZONE (DAY & NIGHT WORK)
- MARKING REMOVAL LINE
- TEMPORARY MARKING ARROW REMOVABLE TAPE
- ONLY TEMPORARY MARKING WORD REMOVABLE TAPE
- 6WT TEMPORARY MARKING LINE REMOVABLE TAPE 6-INCH (WHITE)
- 6WTD TEMPORARY MARKING LINE REMOVABLE TAPE 6-INCH (WHITE DASH 12.5' LINE 27.5' GAP)
- 6YT TEMPORARY MARKING LINE REMOVABLE TAPE 6-INCH (YELLOW)
- 10WT TEMPORARY MARKING LINE REMOVABLE TAPE 10-INCH (WHITE)
- 10WTS TEMPORARY MARKING LINE REMOVABLE TAPE 10-INCH (WHITE SKIP 3' LINE 9' GAP)



PROJECT NO: 2310-09-71	HWY: STH 60	COUNTY: WASHINGTON	TRAFFIC CONTROL - IH 41 STAGE 1N2 (NIGHT WORK ONLY)	SHEET 145	E

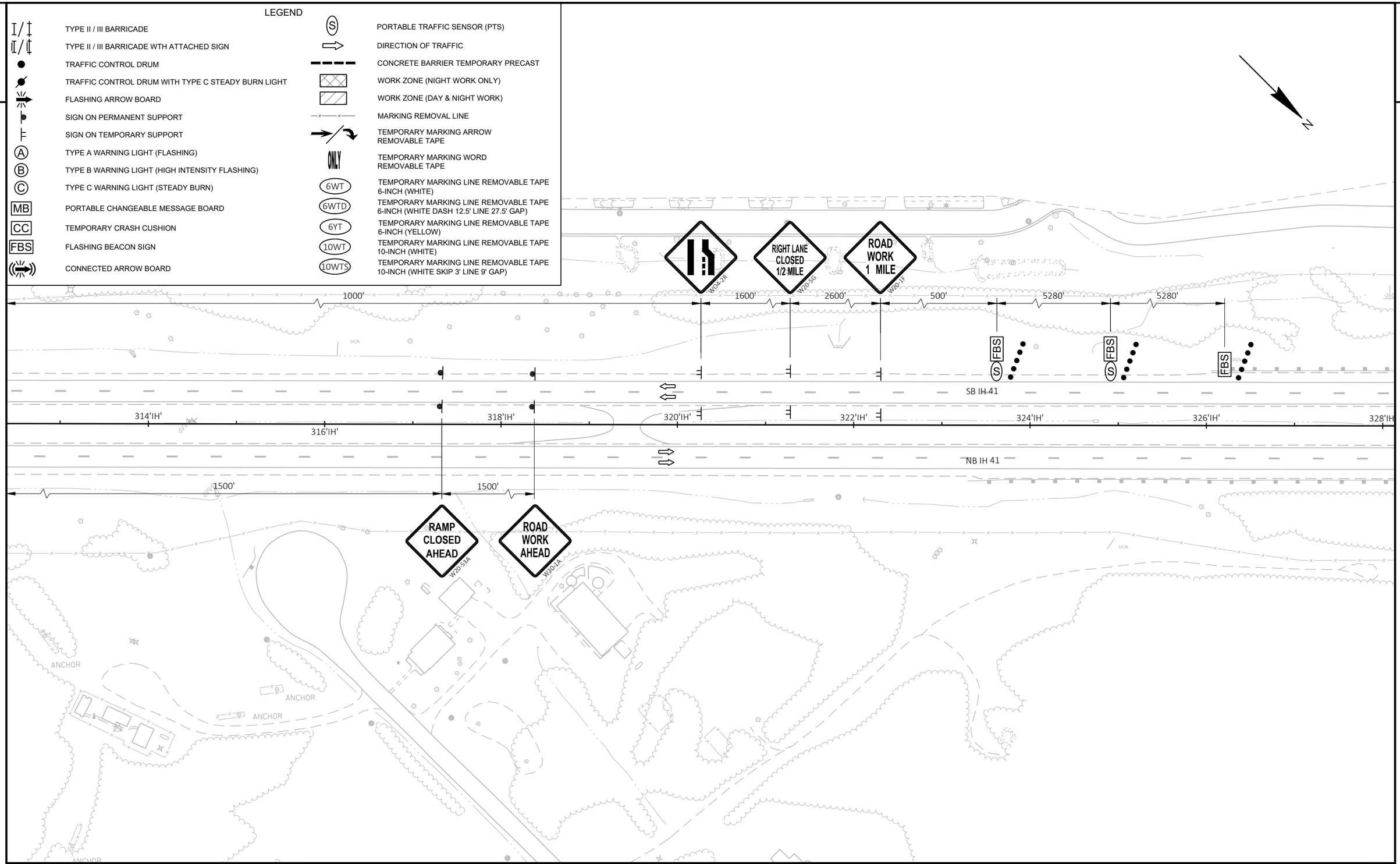
FILE NAME : K:\195704_STH 60 AND IH 41 INTERSECTION\3.0 DELIVERABLES\3.02 ROADWAY\AUTOCAD\SHEETS\026171-S1N2.DWG
LAYOUT NAME - 025026-tc

PLOT DATE : 7/15/2025 12:18 PM PLOT BY : OLSEN, CASSIE PLOT NAME : PLOT SCALE : 1 IN:100 FT

2

LEGEND

I/‡	TYPE II / III BARRICADE	(S)	PORTABLE TRAFFIC SENSOR (PTS)
I/‡	TYPE II / III BARRICADE WTH ATTACHED SIGN	⇨	DIRECTION OF TRAFFIC
●	TRAFFIC CONTROL DRUM	▬ ▬ ▬	CONCRETE BARRIER TEMPORARY PRECAST
●	TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT	▨	WORK ZONE (NIGHT WORK ONLY)
⇨	FLASHING ARROW BOARD	▨	WORK ZONE (DAY & NIGHT WORK)
●	SIGN ON PERMANENT SUPPORT	—×—×—	MARKING REMOVAL LINE
‡	SIGN ON TEMPORARY SUPPORT	➔	TEMPORARY MARKING ARROW REMOVABLE TAPE
(A)	TYPE A WARNING LIGHT (FLASHING)	ONLY	TEMPORARY MARKING WORD REMOVABLE TAPE
(B)	TYPE B WARNING LIGHT (HIGH INTENSITY FLASHING)	6WT	TEMPORARY MARKING LINE REMOVABLE TAPE 6-INCH (WHITE)
(C)	TYPE C WARNING LIGHT (STEADY BURN)	6WTD	TEMPORARY MARKING LINE REMOVABLE TAPE 6-INCH (WHITE DASH 12.5' LINE 27.5' GAP)
MB	PORTABLE CHANGEABLE MESSAGE BOARD	6YT	TEMPORARY MARKING LINE REMOVABLE TAPE 6-INCH (YELLOW)
CC	TEMPORARY CRASH CUSHION	10WT	TEMPORARY MARKING LINE REMOVABLE TAPE 10-INCH (WHITE)
FBS	FLASHING BEACON SIGN	10WTS	TEMPORARY MARKING LINE REMOVABLE TAPE 10-INCH (WHITE SKIP 3' LINE 9' GAP)
((⇨))	CONNECTED ARROW BOARD		



PROJECT NO: 2310-09-71	HWY: STH 60	COUNTY: WASHINGTON	TRAFFIC CONTROL - IH 41 STAGE 1N2 (NIGHT WORK ONLY)	SHEET 146	E

FILE NAME : K:\195704_STH 60 AND IH 41 INTERSECTION\3.0 DELIVERABLES\3.02 ROADWAY\AUTOCAD\SHEETS\026171-S1N2.DWG
LAYOUT NAME - 025026-tc
PLOT DATE : 7/15/2025 12:19 PM PLOT BY : OLSEN, CASSIE PLOT NAME : PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 42

2

LEGEND

I/I	TYPE II / III BARRICADE	⇨	DIRECTION OF TRAFFIC
I/I	TYPE II / III BARRICADE WTH ATTACHED SIGN	▬ ▬ ▬	CONCRETE BARRIER TEMPORARY PRECAST
●	TRAFFIC CONTROL DRUM	▨	WORK ZONE (NIGHT WORK ONLY)
●	TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT	▨	WORK ZONE (DAY & NIGHT WORK)
((→))	CONNECTED ARROW BOARD	—×—×—	MARKING REMOVAL LINE
	SIGN ON PERMANENT SUPPORT		TEMPORARY MARKING ARROW REMOVABLE TAPE
	SIGN ON TEMPORARY SUPPORT	ONLY	TEMPORARY MARKING WORD REMOVABLE TAPE
Ⓐ	TYPE A WARNING LIGHT (FLASHING)	6WT	TEMPORARY MARKING LINE REMOVABLE TAPE 6-INCH (WHITE)
Ⓑ	TYPE B WARNING LIGHT (HIGH INTENSITY FLASHING)	6WTD	TEMPORARY MARKING LINE REMOVABLE TAPE 6-INCH (WHITE DASH 12.5' LINE 27.5' GAP)
Ⓒ	TYPE C WARNING LIGHT (STEADY BURN)	6YT	TEMPORARY MARKING LINE REMOVABLE TAPE 6-INCH (YELLOW)
MB	PORTABLE CHANGEABLE MESSAGE BOARD	10WT	TEMPORARY MARKING LINE REMOVABLE TAPE 10-INCH (WHITE)
CC	TEMPORARY CRASH CUSHION	10WTS	TEMPORARY MARKING LINE REMOVABLE TAPE 10-INCH (WHITE SKIP 3' LINE 9' GAP)
FBS	FLASHING BEACON SIGN		

N

G20-2A
48"X24"
END
ROAD WORK

STH 60

310 312 314 316 318 320 322

ROAD WORK AHEAD
W20-1A

ENTERPRISE DR

RIGHT LANE CLOSED AHEAD
W20-5A

W04-2R

MATCHLINE 323+00

2

PROJECT NO: 2310-09-71	HWY: STH 60	COUNTY: WASHINGTON	TRAFFIC CONTROL - STH 60 STAGE 2A (DAY & NIGHT WORK)	SHEET 147	E

FILE NAME : K:\195704_STH 60 AND IH 41 INTERSECTION\3.0 DELIVERABLES\3.02 ROADWAY\AUTOCAD\SHEETS\026201-S2.DWG
LAYOUT NAME - 01

PLOT DATE : 10/18/2025 5:43 PM PLOT BY : OLSEN, CASSIE PLOT NAME : PLOT SCALE : 1 IN:100 FT

2

LEGEND

I/‡	TYPE II / III BARRICADE	⇨	DIRECTION OF TRAFFIC
II/‡	TYPE II / III BARRICADE WTH ATTACHED SIGN	▬ ▬ ▬	CONCRETE BARRIER TEMPORARY PRECAST
●	TRAFFIC CONTROL DRUM	▨	WORK ZONE (NIGHT WORK ONLY)
●	TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT	▨	WORK ZONE (DAY & NIGHT WORK)
((⇨))	CONNECTED ARROW BOARD	—×—×—	MARKING REMOVAL LINE
‡	SIGN ON PERMANENT SUPPORT	⇨	TEMPORARY MARKING ARROW REMOVABLE TAPE
‡	SIGN ON TEMPORARY SUPPORT	ONLY	TEMPORARY MARKING WORD REMOVABLE TAPE
Ⓐ	TYPE A WARNING LIGHT (FLASHING)	6WT	TEMPORARY MARKING LINE REMOVABLE TAPE 6-INCH (WHITE)
Ⓑ	TYPE B WARNING LIGHT (HIGH INTENSITY FLASHING)	6WTD	TEMPORARY MARKING LINE REMOVABLE TAPE 6-INCH (WHITE DASH 12.5' LINE 27.5' GAP)
Ⓒ	TYPE C WARNING LIGHT (STEADY BURN)	6YT	TEMPORARY MARKING LINE REMOVABLE TAPE 6-INCH (YELLOW)
MB	PORTABLE CHANGEABLE MESSAGE BOARD	10WT	TEMPORARY MARKING LINE REMOVABLE TAPE 10-INCH (WHITE)
CC	TEMPORARY CRASH CUSHION	10WTS	TEMPORARY MARKING LINE REMOVABLE TAPE 10-INCH (WHITE SKIP 3' LINE 9' GAP)
FBS	FLASHING BEACON SIGN		

N

MATCH LINE 322+00

MATCH LINE 336+25

EAST 60 M3-2 24"X12" M1-6 24"X24"

MAX. 11' WIDTH W12-52 48"X48"

600'

STH 60

322 324 326 328 330 332 334 336

+49.79, 34.02' RT

+50, 20.00' RT

50' TYP

6WT

100' TYP

R11-2L 48" X 30"

LANE CLOSED

TYPE III BARRICADE

MAX. 11' WIDTH W12-52 48"X48"

0.1 MILES AHEAD WO57-52 48"X36"

LOVERS LN (STH 164)

SOUTH Interstate 41 MO3-3 24"X12" M1-1 24"X24"

RAMP CLOSED AHEAD W20-53A

MAX. 11' WIDTH W12-52 48"X48"

EAST 60 M3-2 24"X12" M1-6 24"X24"

MAX. 11' WIDTH W12-52 48"X48"

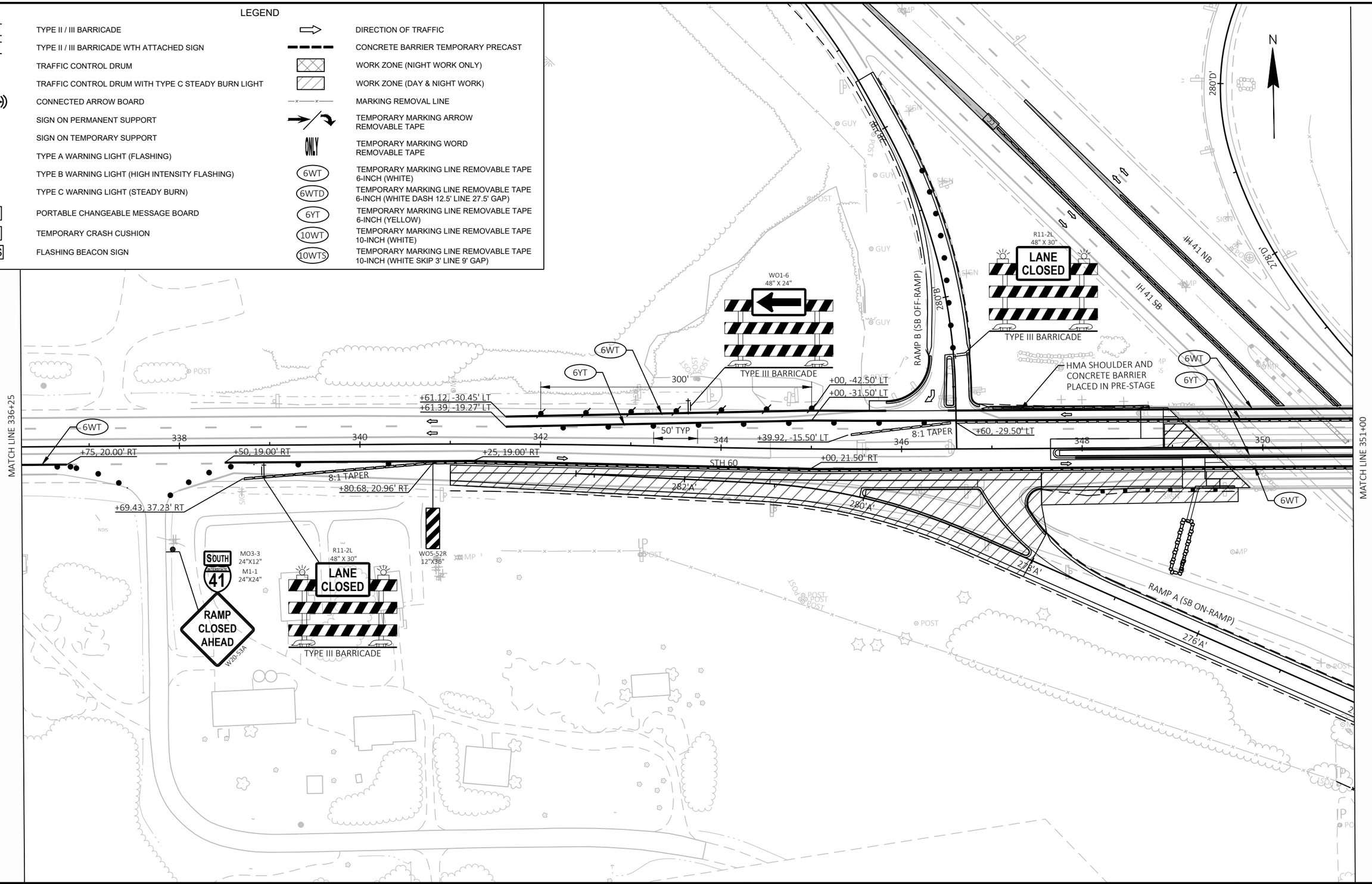
2

PROJECT NO: 2310-09-71	HWY: STH 60	COUNTY: WASHINGTON	TRAFFIC CONTROL - STH 60 STAGE 2A (DAY & NIGHT WORK)	SHEET 148	E

2

LEGEND

I/I	TYPE II / III BARRICADE	⇨	DIRECTION OF TRAFFIC
I/I	TYPE II / III BARRICADE WTH ATTACHED SIGN	▬ ▬ ▬	CONCRETE BARRIER TEMPORARY PRECAST
●	TRAFFIC CONTROL DRUM	▨	WORK ZONE (NIGHT WORK ONLY)
●	TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT	▨	WORK ZONE (DAY & NIGHT WORK)
((●→))	CONNECTED ARROW BOARD	—×—×—	MARKING REMOVAL LINE
●	SIGN ON PERMANENT SUPPORT	→	TEMPORARY MARKING ARROW REMOVABLE TAPE
⊤	SIGN ON TEMPORARY SUPPORT	ONLY	TEMPORARY MARKING WORD REMOVABLE TAPE
Ⓐ	TYPE A WARNING LIGHT (FLASHING)	6WT	TEMPORARY MARKING LINE REMOVABLE TAPE 6-INCH (WHITE)
Ⓑ	TYPE B WARNING LIGHT (HIGH INTENSITY FLASHING)	6WTD	TEMPORARY MARKING LINE REMOVABLE TAPE 6-INCH (WHITE DASH 12.5' LINE 27.5' GAP)
Ⓒ	TYPE C WARNING LIGHT (STEADY BURN)	6YT	TEMPORARY MARKING LINE REMOVABLE TAPE 6-INCH (YELLOW)
MB	PORTABLE CHANGEABLE MESSAGE BOARD	10WT	TEMPORARY MARKING LINE REMOVABLE TAPE 10-INCH (WHITE)
CC	TEMPORARY CRASH CUSHION	10WTS	TEMPORARY MARKING LINE REMOVABLE TAPE 10-INCH (WHITE SKIP 3' LINE 9' GAP)
FBS	FLASHING BEACON SIGN		



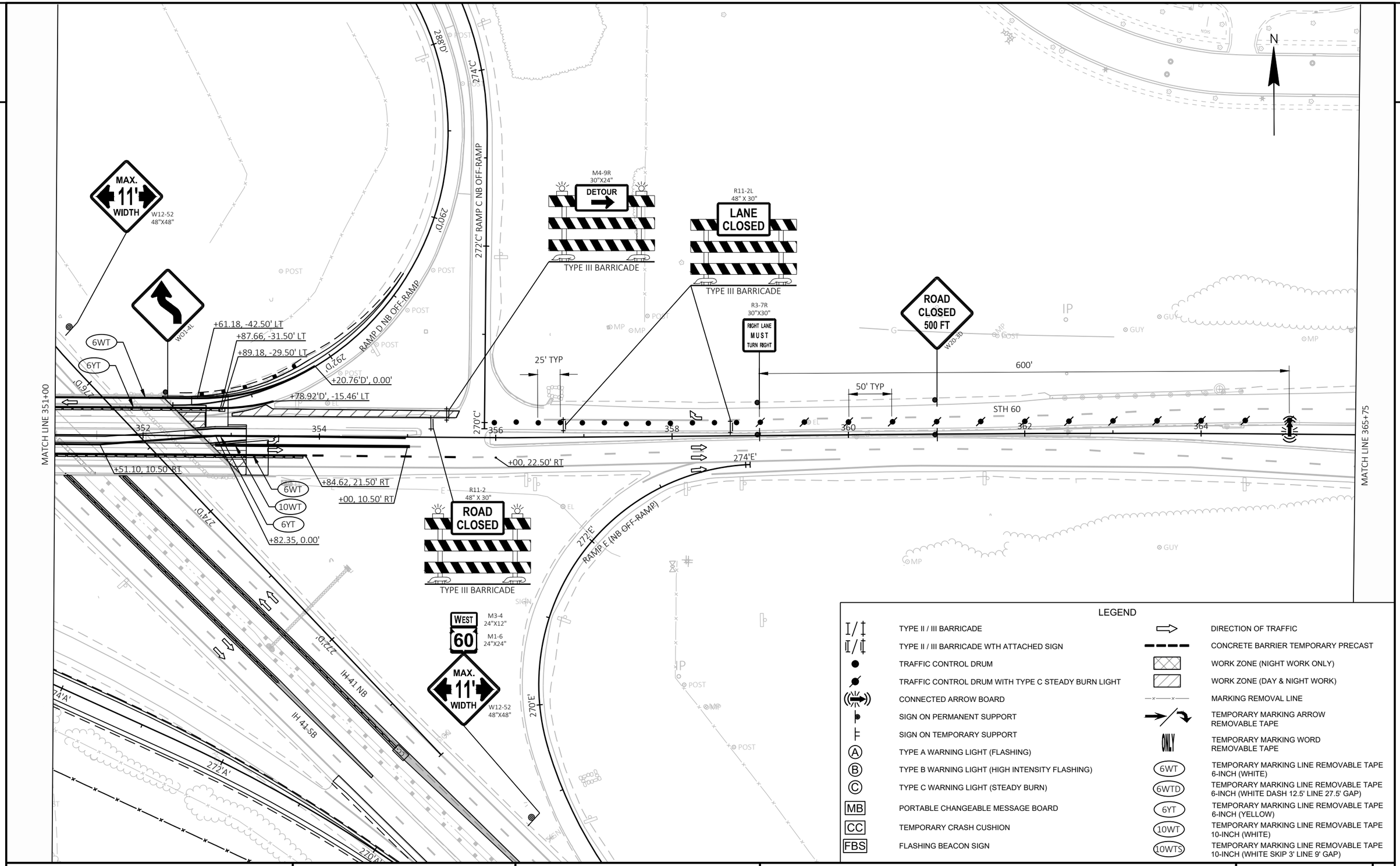
PROJECT NO: 2310-09-71	HWY: STH 60	COUNTY: WASHINGTON	TRAFFIC CONTROL - STH 60 STAGE 2A (DAY & NIGHT WORK)	SHEET 149 E

FILE NAME : K:\195704_STH 60 AND IH 41 INTERSECTION\3.0 DELIVERABLES\3.02 ROADWAY\AUTOCAD\SHEETS\026201-S2.DWG
LAYOUT NAME - 03

PLOT DATE : 10/18/2025 5:46 PM PLOT BY : OLSEN, CASSIE PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2



LEGEND

I/‡	TYPE II / III BARRICADE	⇨	DIRECTION OF TRAFFIC
I/‡	TYPE II / III BARRICADE WTH ATTACHED SIGN	▬ ▬ ▬	CONCRETE BARRIER TEMPORARY PRECAST
●	TRAFFIC CONTROL DRUM	▨	WORK ZONE (NIGHT WORK ONLY)
●	TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT	▨	WORK ZONE (DAY & NIGHT WORK)
	CONNECTED ARROW BOARD	×—×—×	MARKING REMOVAL LINE
	SIGN ON PERMANENT SUPPORT		TEMPORARY MARKING ARROW REMOVABLE TAPE
	SIGN ON TEMPORARY SUPPORT	ONLY	TEMPORARY MARKING WORD REMOVABLE TAPE
Ⓐ	TYPE A WARNING LIGHT (FLASHING)		
Ⓑ	TYPE B WARNING LIGHT (HIGH INTENSITY FLASHING)	6WT	TEMPORARY MARKING LINE REMOVABLE TAPE 6-INCH (WHITE)
Ⓒ	TYPE C WARNING LIGHT (STEADY BURN)	6WTD	TEMPORARY MARKING LINE REMOVABLE TAPE 6-INCH (WHITE DASH 12.5' LINE 27.5' GAP)
MB	PORTABLE CHANGEABLE MESSAGE BOARD	6YT	TEMPORARY MARKING LINE REMOVABLE TAPE 6-INCH (YELLOW)
CC	TEMPORARY CRASH CUSHION	10WT	TEMPORARY MARKING LINE REMOVABLE TAPE 10-INCH (WHITE)
FBS	FLASHING BEACON SIGN	10WTS	TEMPORARY MARKING LINE REMOVABLE TAPE 10-INCH (WHITE SKIP 3' LINE 9' GAP)

PROJECT NO: 2310-09-71	HWY: STH 60	COUNTY: WASHINGTON	TRAFFIC CONTROL - STH 60 STAGE 2A (DAY & NIGHT WORK)	SHEET 150	E

2

2

N

SOUTH INTERSTATE 41 — MO3-3 24"X12" M1-1 24"X24"

RAMP CLOSED AHEAD W20-53A

LEFT LANE CLOSED AHEAD W20-55A

ROAD CLOSED AHEAD W20-3A

W04-2L

HILLSIDE RD (CTH C)

STH 60

MATCH LINE 365+75

366 368 370 372 374 376 378 380

END ROAD WORK G20-2A 48"X24"

SIGN

POST

MP

IP

SS

LEGEND

I/‡	TYPE II / III BARRICADE	⇨	DIRECTION OF TRAFFIC
I/‡	TYPE II / III BARRICADE WTH ATTACHED SIGN	▬ ▬ ▬	CONCRETE BARRIER TEMPORARY PRECAST
●	TRAFFIC CONTROL DRUM	▨	WORK ZONE (NIGHT WORK ONLY)
●	TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT	▨	WORK ZONE (DAY & NIGHT WORK)
((⇨))	CONNECTED ARROW BOARD	—×—×—	MARKING REMOVAL LINE
	SIGN ON PERMANENT SUPPORT	➔ ↷	TEMPORARY MARKING ARROW REMOVABLE TAPE
‡	SIGN ON TEMPORARY SUPPORT	ONLY	TEMPORARY MARKING WORD REMOVABLE TAPE
Ⓐ	TYPE A WARNING LIGHT (FLASHING)	6WT	TEMPORARY MARKING LINE REMOVABLE TAPE 6-INCH (WHITE)
Ⓑ	TYPE B WARNING LIGHT (HIGH INTENSITY FLASHING)	6WTD	TEMPORARY MARKING LINE REMOVABLE TAPE 6-INCH (WHITE DASH 12.5' LINE 27.5' GAP)
Ⓒ	TYPE C WARNING LIGHT (STEADY BURN)	6YT	TEMPORARY MARKING LINE REMOVABLE TAPE 6-INCH (YELLOW)
MB	PORTABLE CHANGEABLE MESSAGE BOARD	10WT	TEMPORARY MARKING LINE REMOVABLE TAPE 10-INCH (WHITE)
CC	TEMPORARY CRASH CUSHION	10WTS	TEMPORARY MARKING LINE REMOVABLE TAPE 10-INCH (WHITE SKIP 3' LINE 9' GAP)
FBS	FLASHING BEACON SIGN		

PROJECT NO: 2310-09-71	HWY: STH 60	COUNTY: WASHINGTON	TRAFFIC CONTROL - STH 60 STAGE 2A (DAY & NIGHT WORK)	SHEET 151	E

FILE NAME : K:\195704_STH 60 AND IH 41 INTERSECTION\3.0 DELIVERABLES\3.02 ROADWAY\AUTOCAD\SHEETS\026201-S2.DWG
LAYOUT NAME - 05
PLOT DATE : 10/18/2025 5:49 PM PLOT BY : OLSEN, CASSIE PLOT NAME : PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 42

2

LEGEND

I/‡	TYPE II / III BARRICADE	⇨	DIRECTION OF TRAFFIC
I/‡	TYPE II / III BARRICADE WTH ATTACHED SIGN	▬ ▬ ▬	CONCRETE BARRIER TEMPORARY PRECAST
●	TRAFFIC CONTROL DRUM	▨	WORK ZONE (NIGHT WORK ONLY)
●	TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT	▨	WORK ZONE (DAY & NIGHT WORK)
	CONNECTED ARROW BOARD	—×—×—	MARKING REMOVAL LINE
	SIGN ON PERMANENT SUPPORT		TEMPORARY MARKING ARROW REMOVABLE TAPE
	SIGN ON TEMPORARY SUPPORT	ONLY	TEMPORARY MARKING WORD REMOVABLE TAPE
Ⓐ	TYPE A WARNING LIGHT (FLASHING)	6WT	TEMPORARY MARKING LINE REMOVABLE TAPE 6-INCH (WHITE)
Ⓑ	TYPE B WARNING LIGHT (HIGH INTENSITY FLASHING)	6WTD	TEMPORARY MARKING LINE REMOVABLE TAPE 6-INCH (WHITE DASH 12.5' LINE 27.5' GAP)
Ⓒ	TYPE C WARNING LIGHT (STEADY BURN)	6YT	TEMPORARY MARKING LINE REMOVABLE TAPE 6-INCH (YELLOW)
MB	PORTABLE CHANGEABLE MESSAGE BOARD	10WT	TEMPORARY MARKING LINE REMOVABLE TAPE 10-INCH (WHITE)
CC	TEMPORARY CRASH CUSHION	10WTS	TEMPORARY MARKING LINE REMOVABLE TAPE 10-INCH (WHITE SKIP 3' LINE 9' GAP)
FBS	FLASHING BEACON SIGN		

N

G20-2A
48"X24"
END
ROAD WORK

310 312 314 316 318 STH 60 320 322

MATCHLINE 323+00

ROAD
WORK
AHEAD
W20-1A

ENTERPRISE DR

RIGHT LANE
CLOSED
AHEAD
W20-5A

W04-2R

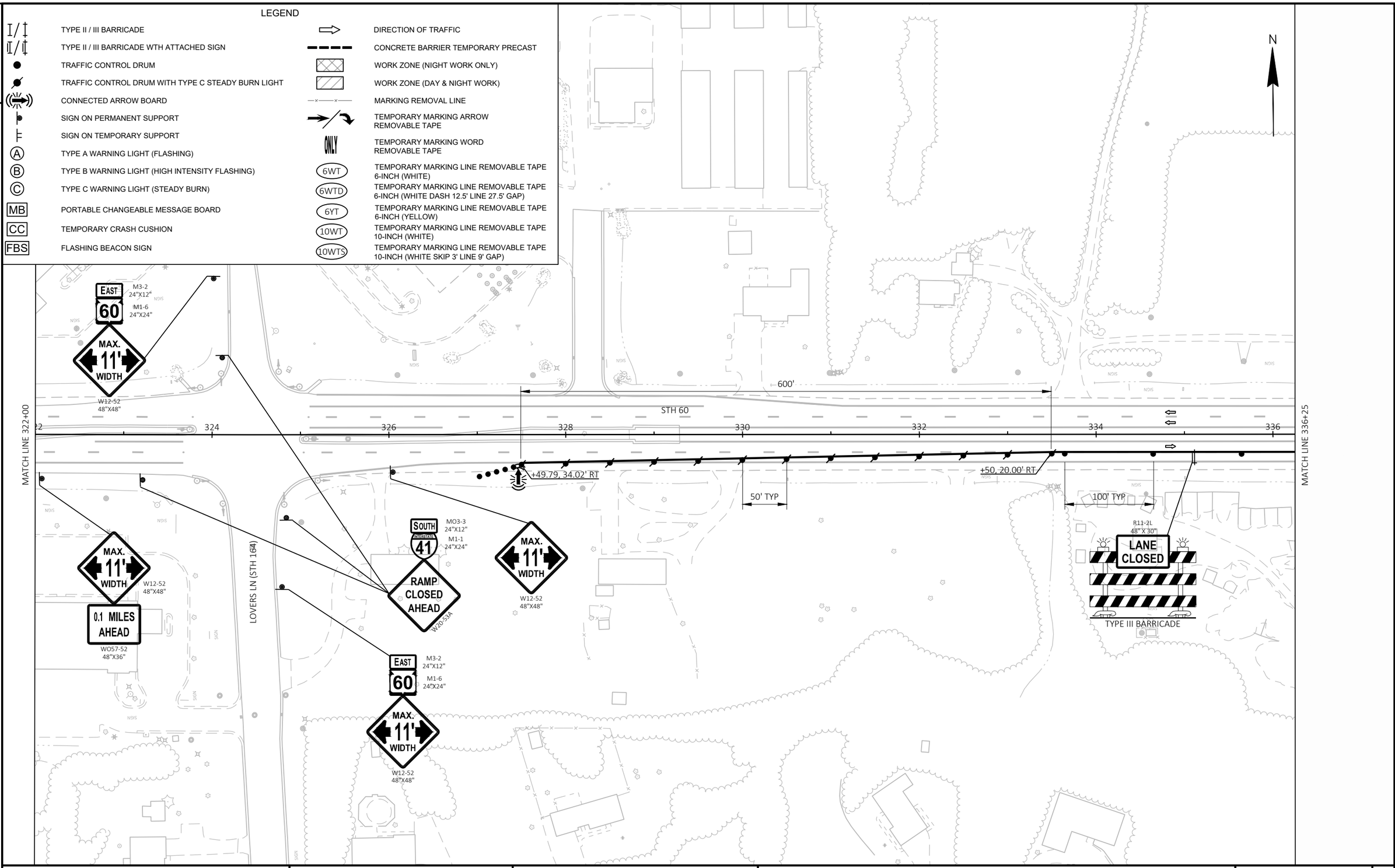
2

PROJECT NO: 2310-09-71	HWY: STH 60	COUNTY: WASHINGTON	TRAFFIC CONTROL - STH 60 STAGE 2B (DAY & NIGHT WORK)	SHEET 152	E

2

LEGEND

I/‡	TYPE II / III BARRICADE	⇨	DIRECTION OF TRAFFIC
II/‡	TYPE II / III BARRICADE WTH ATTACHED SIGN	▬▬▬	CONCRETE BARRIER TEMPORARY PRECAST
●	TRAFFIC CONTROL DRUM	▨	WORK ZONE (NIGHT WORK ONLY)
●	TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT	▨	WORK ZONE (DAY & NIGHT WORK)
((➡))	CONNECTED ARROW BOARD	—×—×—	MARKING REMOVAL LINE
●	SIGN ON PERMANENT SUPPORT	➡ / ↷	TEMPORARY MARKING ARROW REMOVABLE TAPE
‡	SIGN ON TEMPORARY SUPPORT	ONLY	TEMPORARY MARKING WORD REMOVABLE TAPE
Ⓐ	TYPE A WARNING LIGHT (FLASHING)	6WT	TEMPORARY MARKING LINE REMOVABLE TAPE 6-INCH (WHITE)
Ⓑ	TYPE B WARNING LIGHT (HIGH INTENSITY FLASHING)	6WTD	TEMPORARY MARKING LINE REMOVABLE TAPE 6-INCH (WHITE DASH 12.5' LINE 27.5' GAP)
Ⓒ	TYPE C WARNING LIGHT (STEADY BURN)	6YT	TEMPORARY MARKING LINE REMOVABLE TAPE 6-INCH (YELLOW)
MB	PORTABLE CHANGEABLE MESSAGE BOARD	10WT	TEMPORARY MARKING LINE REMOVABLE TAPE 10-INCH (WHITE)
CC	TEMPORARY CRASH CUSHION	10WTS	TEMPORARY MARKING LINE REMOVABLE TAPE 10-INCH (WHITE SKIP 3' LINE 9' GAP)
FBS	FLASHING BEACON SIGN		



PROJECT NO: 2310-09-71	HWY: STH 60	COUNTY: WASHINGTON	TRAFFIC CONTROL - STH 60 STAGE 2B (DAY & NIGHT WORK)	SHEET 153 E

FILE NAME : K:\195704_STH 60 AND IH 41 INTERSECTION\3.0 DELIVERABLES\3.02 ROADWAY\AUTOCAD\SHEETS\026221-S2B.DWG
LAYOUT NAME - 02

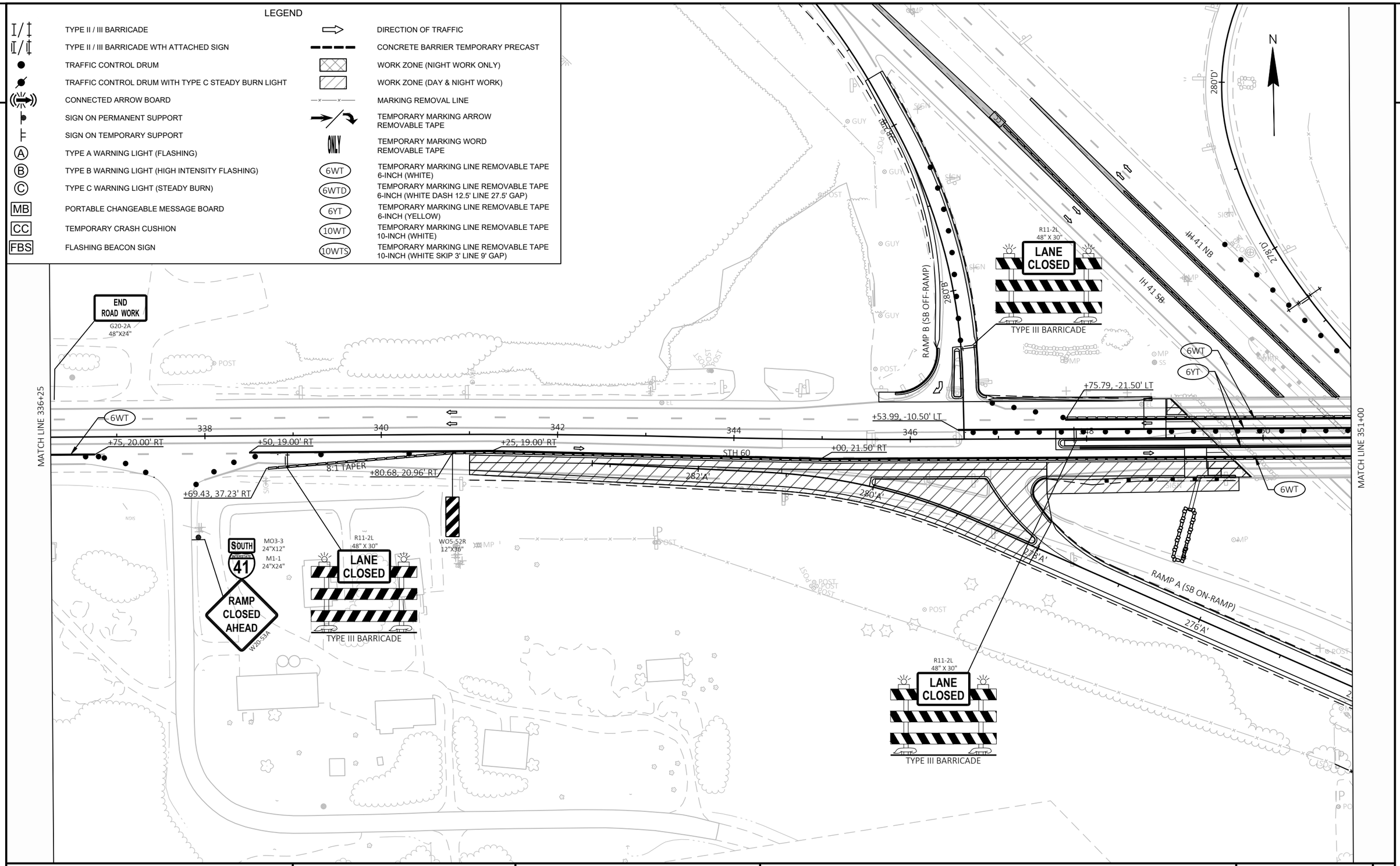
PLOT DATE : 10/21/2025 7:57 PM PLOT BY : OLSEN, CASSIE PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

LEGEND

I/I	TYPE II / III BARRICADE	⇨	DIRECTION OF TRAFFIC
I/I	TYPE II / III BARRICADE WTH ATTACHED SIGN	▬ ▬ ▬	CONCRETE BARRIER TEMPORARY PRECAST
●	TRAFFIC CONTROL DRUM	▨	WORK ZONE (NIGHT WORK ONLY)
●	TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT	▨	WORK ZONE (DAY & NIGHT WORK)
((➡))	CONNECTED ARROW BOARD	—×—×—	MARKING REMOVAL LINE
	SIGN ON PERMANENT SUPPORT	➡ ↱	TEMPORARY MARKING ARROW REMOVABLE TAPE
	SIGN ON TEMPORARY SUPPORT	ONLY	TEMPORARY MARKING WORD REMOVABLE TAPE
Ⓐ	TYPE A WARNING LIGHT (FLASHING)	6WT	TEMPORARY MARKING LINE REMOVABLE TAPE 6-INCH (WHITE)
Ⓑ	TYPE B WARNING LIGHT (HIGH INTENSITY FLASHING)	6WTD	TEMPORARY MARKING LINE REMOVABLE TAPE 6-INCH (WHITE DASH 12.5' LINE 27.5' GAP)
Ⓒ	TYPE C WARNING LIGHT (STEADY BURN)	6YT	TEMPORARY MARKING LINE REMOVABLE TAPE 6-INCH (YELLOW)
MB	PORTABLE CHANGEABLE MESSAGE BOARD	10WT	TEMPORARY MARKING LINE REMOVABLE TAPE 10-INCH (WHITE)
CC	TEMPORARY CRASH CUSHION	10WTS	TEMPORARY MARKING LINE REMOVABLE TAPE 10-INCH (WHITE SKIP 3' LINE 9' GAP)
FBS	FLASHING BEACON SIGN		



PROJECT NO: 2310-09-71	HWY: STH 60	COUNTY: WASHINGTON	TRAFFIC CONTROL - STH 60 STAGE 2B (DAY & NIGHT WORK)	SHEET 154 E

FILE NAME : K:\195704_STH 60 AND IH 41 INTERSECTION\3.0 DELIVERABLES\3.02 ROADWAY\AUTOCAD\SHEETS\026221-S2B.DWG
LAYOUT NAME - 03

PLOT DATE : 10/18/2025 5:52 PM PLOT BY : OLSEN, CASSIE PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

N

RAMP CLOSED

288'D'

290'D'

292'D'

6'D'

272'C' RAMP C NB OFF-RAMP

274'C'

270'C'

RAMP D NB OFF-RAMP

6WT

6YT

+40.66, -29.24' LT

MATCH LINE 351+00

334

356

358

360

362

364

MATCH LINE 365+75

ROAD WORK AHEAD

W20-1A

STH 60

IP

+00, 22.50' RT

274'E'

+84.62, 21.50' RT

+00, 10.50' RT

6WTD

6WT

10WT

6YT

+82.35, 0.00'

272'E'

RAMP E (NB OFF-RAMP)

270'E'

R11-2L
48" X 30"

LANE CLOSED

TYPE III BARRICADE

272'D'

IH 41 NB

IH 41 SB

274'A'

272'A'

270'A'

SIGN

POST

MP

GUY

EL

LEGEND

	TYPE II / III BARRICADE		DIRECTION OF TRAFFIC
	TYPE II / III BARRICADE WTH ATTACHED SIGN		CONCRETE BARRIER TEMPORARY PRECAST
	TRAFFIC CONTROL DRUM		WORK ZONE (NIGHT WORK ONLY)
	TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT		WORK ZONE (DAY & NIGHT WORK)
	CONNECTED ARROW BOARD		MARKING REMOVAL LINE
	SIGN ON PERMANENT SUPPORT		TEMPORARY MARKING ARROW REMOVABLE TAPE
	SIGN ON TEMPORARY SUPPORT	ONLY	TEMPORARY MARKING WORD REMOVABLE TAPE
A	TYPE A WARNING LIGHT (FLASHING)		
B	TYPE B WARNING LIGHT (HIGH INTENSITY FLASHING)	6WT	TEMPORARY MARKING LINE REMOVABLE TAPE 6-INCH (WHITE)
C	TYPE C WARNING LIGHT (STEADY BURN)	6WTD	TEMPORARY MARKING LINE REMOVABLE TAPE 6-INCH (WHITE DASH 12.5' LINE 27.5' GAP)
MB	PORTABLE CHANGEABLE MESSAGE BOARD	6YT	TEMPORARY MARKING LINE REMOVABLE TAPE 6-INCH (YELLOW)
CC	TEMPORARY CRASH CUSHION	10WT	TEMPORARY MARKING LINE REMOVABLE TAPE 10-INCH (WHITE)
FBS	FLASHING BEACON SIGN	10WTS	TEMPORARY MARKING LINE REMOVABLE TAPE 10-INCH (WHITE SKIP 3' LINE 9' GAP)

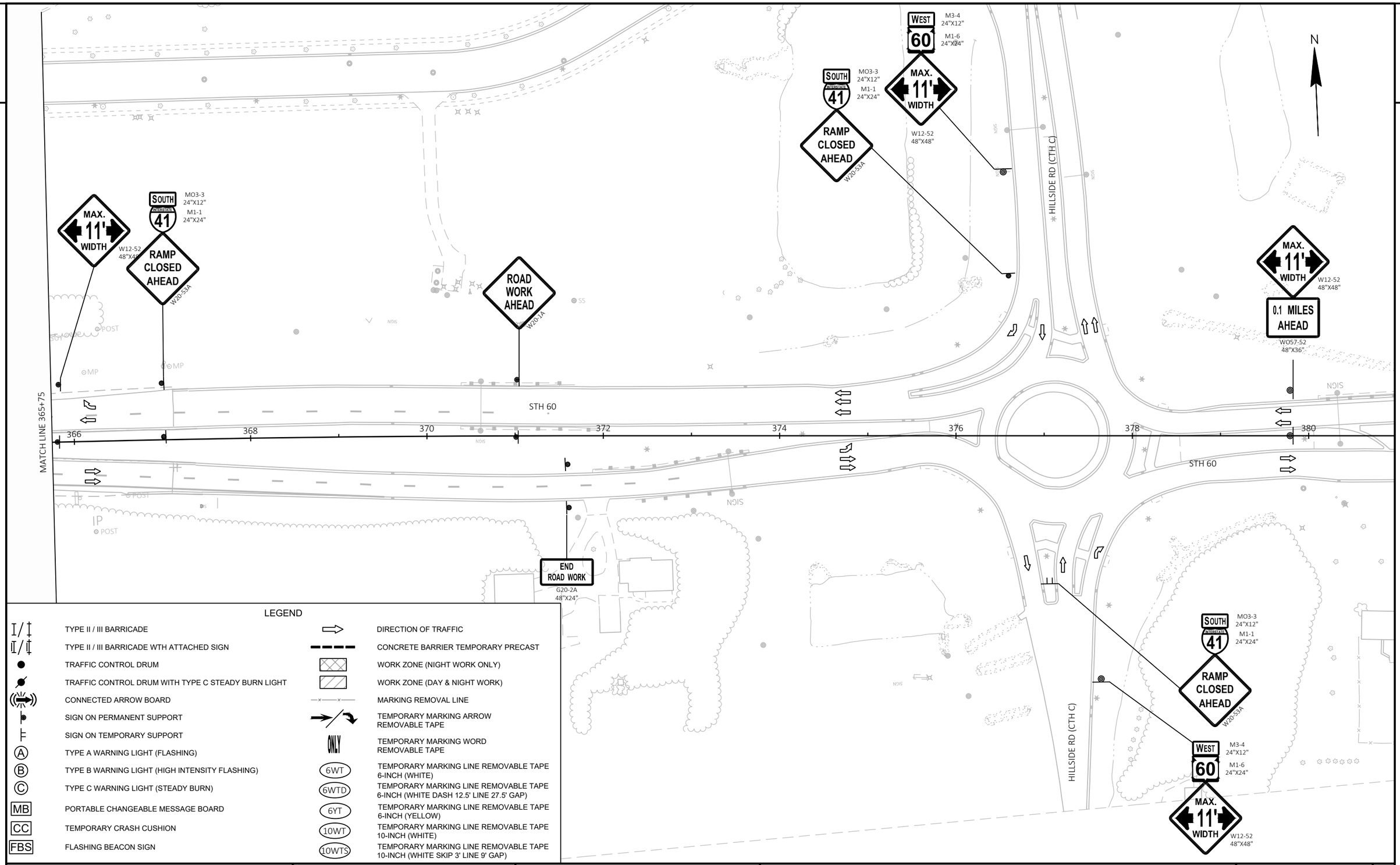
PROJECT NO: 2310-09-71	HWY: STH 60	COUNTY: WASHINGTON	TRAFFIC CONTROL - STH 60 STAGE 2B (DAY & NIGHT WORK)	SHEET 155	E

FILE NAME : K:\195704_STH 60 AND IH 41 INTERSECTION\3.0 DELIVERABLES\3.02 ROADWAY\AUTOCAD\SHEETS\026221-S2B.DWG
LAYOUT NAME - 04

PLOT DATE : 10/18/2025 5:53 PM PLOT BY : OLSEN, CASSIE PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2



LEGEND

I/‡	TYPE II / III BARRICADE	⇨	DIRECTION OF TRAFFIC
I/‡	TYPE II / III BARRICADE WTH ATTACHED SIGN	▬ ▬ ▬	CONCRETE BARRIER TEMPORARY PRECAST
●	TRAFFIC CONTROL DRUM	▨	WORK ZONE (NIGHT WORK ONLY)
●	TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT	▨	WORK ZONE (DAY & NIGHT WORK)
	CONNECTED ARROW BOARD	—×—×—	MARKING REMOVAL LINE
	SIGN ON PERMANENT SUPPORT		TEMPORARY MARKING ARROW REMOVABLE TAPE
	SIGN ON TEMPORARY SUPPORT	ONLY	TEMPORARY MARKING WORD REMOVABLE TAPE
Ⓐ	TYPE A WARNING LIGHT (FLASHING)	6WT	TEMPORARY MARKING LINE REMOVABLE TAPE 6-INCH (WHITE)
Ⓑ	TYPE B WARNING LIGHT (HIGH INTENSITY FLASHING)	6WTD	TEMPORARY MARKING LINE REMOVABLE TAPE 6-INCH (WHITE DASH 12.5' LINE 27.5' GAP)
Ⓒ	TYPE C WARNING LIGHT (STEADY BURN)	6YT	TEMPORARY MARKING LINE REMOVABLE TAPE 6-INCH (YELLOW)
MB	PORTABLE CHANGEABLE MESSAGE BOARD	10WT	TEMPORARY MARKING LINE REMOVABLE TAPE 10-INCH (WHITE)
CC	TEMPORARY CRASH CUSHION	10WTS	TEMPORARY MARKING LINE REMOVABLE TAPE 10-INCH (WHITE SKIP 3' LINE 9' GAP)
FBS	FLASHING BEACON SIGN		

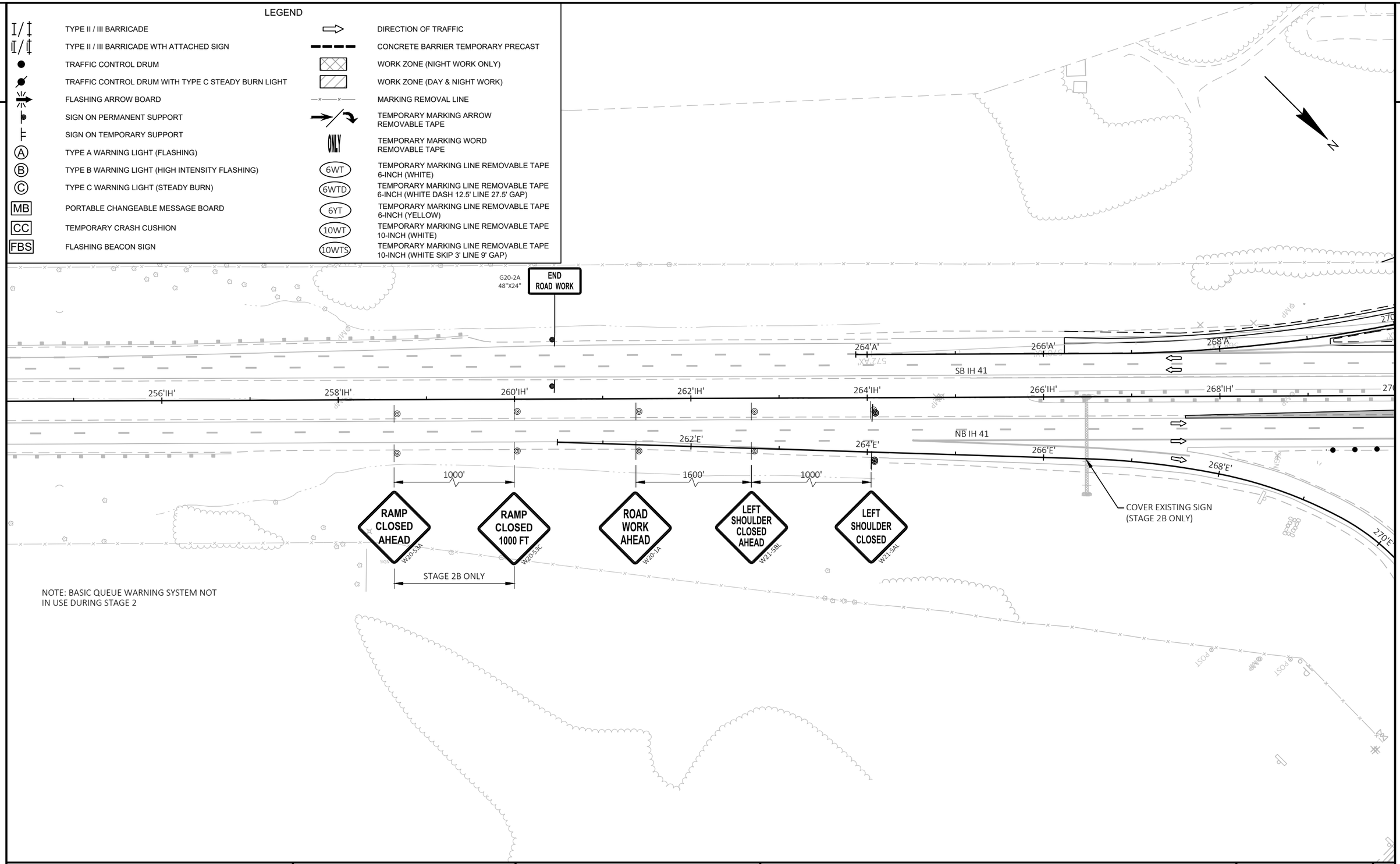
PROJECT NO: 2310-09-71	HWY: STH 60	COUNTY: WASHINGTON	TRAFFIC CONTROL - STH 60 STAGE 2B (DAY & NIGHT WORK)	SHEET 156	E

FILE NAME : K:\195704_STH 60 AND IH 41 INTERSECTION\3.0 DELIVERABLES\3.02 ROADWAY\AUTOCAD\SHEETS\026221-S2B.DWG
LAYOUT NAME - 05
PLOT DATE : 10/21/2025 7:51 PM
PLOT BY : OLSEN, CASSIE
PLOT NAME :
PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 42

2

LEGEND

TYPE II / III BARRICADE	DIRECTION OF TRAFFIC
TYPE II / III BARRICADE WTH ATTACHED SIGN	CONCRETE BARRIER TEMPORARY PRECAST
TRAFFIC CONTROL DRUM	WORK ZONE (NIGHT WORK ONLY)
TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT	WORK ZONE (DAY & NIGHT WORK)
FLASHING ARROW BOARD	MARKING REMOVAL LINE
SIGN ON PERMANENT SUPPORT	TEMPORARY MARKING ARROW REMOVABLE TAPE
SIGN ON TEMPORARY SUPPORT	TEMPORARY MARKING WORD REMOVABLE TAPE
(A) TYPE A WARNING LIGHT (FLASHING)	
(B) TYPE B WARNING LIGHT (HIGH INTENSITY FLASHING)	6WT — TEMPORARY MARKING LINE REMOVABLE TAPE 6-INCH (WHITE)
(C) TYPE C WARNING LIGHT (STEADY BURN)	6WTD — TEMPORARY MARKING LINE REMOVABLE TAPE 6-INCH (WHITE DASH 12.5' LINE 27.5' GAP)
MB PORTABLE CHANGEABLE MESSAGE BOARD	6YT — TEMPORARY MARKING LINE REMOVABLE TAPE 6-INCH (YELLOW)
CC TEMPORARY CRASH CUSHION	10WT — TEMPORARY MARKING LINE REMOVABLE TAPE 10-INCH (WHITE)
FBS FLASHING BEACON SIGN	10WTS — TEMPORARY MARKING LINE REMOVABLE TAPE 10-INCH (WHITE SKIP 3' LINE 9' GAP)



NOTE: BASIC QUEUE WARNING SYSTEM NOT IN USE DURING STAGE 2

PROJECT NO: 2310-09-71	HWY: STH 60	COUNTY: WASHINGTON	TRAFFIC CONTROL - IH 41 STAGE 2 (DAY & NIGHT WORK)	SHEET 157	E

FILE NAME : K:\195704_STH 60 AND IH 41 INTERSECTION\3.0 DELIVERABLES\3.02 ROADWAY\AUTOCAD\SHEETS\026241-S2.DWG
LAYOUT NAME - 025026-tc
PLOT DATE : 10/18/2025 5:56 PM PLOT BY : OLSEN, CASSIE PLOT NAME : PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 42

2

LEGEND

I/I	TYPE II / III BARRICADE	⇨	DIRECTION OF TRAFFIC
I/I	TYPE II / III BARRICADE WTH ATTACHED SIGN	▬ ▬ ▬	CONCRETE BARRIER TEMPORARY PRECAST
●	TRAFFIC CONTROL DRUM	▨	WORK ZONE (NIGHT WORK ONLY)
●	TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT	▨	WORK ZONE (DAY & NIGHT WORK)
	FLASHING ARROW BOARD	—×—×—	MARKING REMOVAL LINE
	SIGN ON PERMANENT SUPPORT		TEMPORARY MARKING ARROW REMOVABLE TAPE
	SIGN ON TEMPORARY SUPPORT	ONLY	TEMPORARY MARKING WORD REMOVABLE TAPE
Ⓐ	TYPE A WARNING LIGHT (FLASHING)	6WT	TEMPORARY MARKING LINE REMOVABLE TAPE 6-INCH (WHITE)
Ⓑ	TYPE B WARNING LIGHT (HIGH INTENSITY FLASHING)	6WTD	TEMPORARY MARKING LINE REMOVABLE TAPE 6-INCH (WHITE DASH 12.5' LINE 27.5' GAP)
Ⓒ	TYPE C WARNING LIGHT (STEADY BURN)	6YT	TEMPORARY MARKING LINE REMOVABLE TAPE 6-INCH (YELLOW)
MB	PORTABLE CHANGEABLE MESSAGE BOARD	10WT	TEMPORARY MARKING LINE REMOVABLE TAPE 10-INCH (WHITE)
CC	TEMPORARY CRASH CUSHION	10WTS	TEMPORARY MARKING LINE REMOVABLE TAPE 10-INCH (WHITE SKIP 3' LINE 9' GAP)
FBS	FLASHING BEACON SIGN		

RAMP CLOSED

STAGE 2B SHOWN ON STH 60
SEE TRAFFIC CONTROL - STH 60 STAGE 2A
(DAY & NIGHT WORK) FOR ALTERNATE CONFIGURATION

BEAMGUARD REMOVED
AS NEEDED IN PRE-STAGE

HMA SHOULDERS, TEMPORARY
TAPE, AND CONCRETE BARRIER
PLACED IN PRE-STAGE

DRUMS AND BARRICADES FOR
RAMP D CLOSURE IN STAGE 2B
ONLY

COVER EXISTING SIGN
(STAGE 2B ONLY)

COVER EXISTING SIGN
(STAGE 2B ONLY)

W5-52L
12"X36"

W5-52L
12"X36"

R11-2R
48" X 30"
RAMP CLOSED
TYPE III BARRICADE

R11-2R
48" X 30"
RAMP CLOSED
TYPE III BARRICADE

G20-58
90"X48"
RAMP CLOSED
BEGINNING
XXX-XX
STAGE 2B ONLY

RAMP A (SB ON-RAMP)
RAMP B (NB OFF-RAMP)
RAMP D (NB LOOP OFF-RAMP)
RAMP E (NB OFF-RAMP)
STH 60
CC
N

PROJECT NO: 2310-09-71	HWY: STH 60	COUNTY: WASHINGTON	TRAFFIC CONTROL - IH 41 STAGE 2 (DAY & NIGHT WORK)	SHEET 158	E

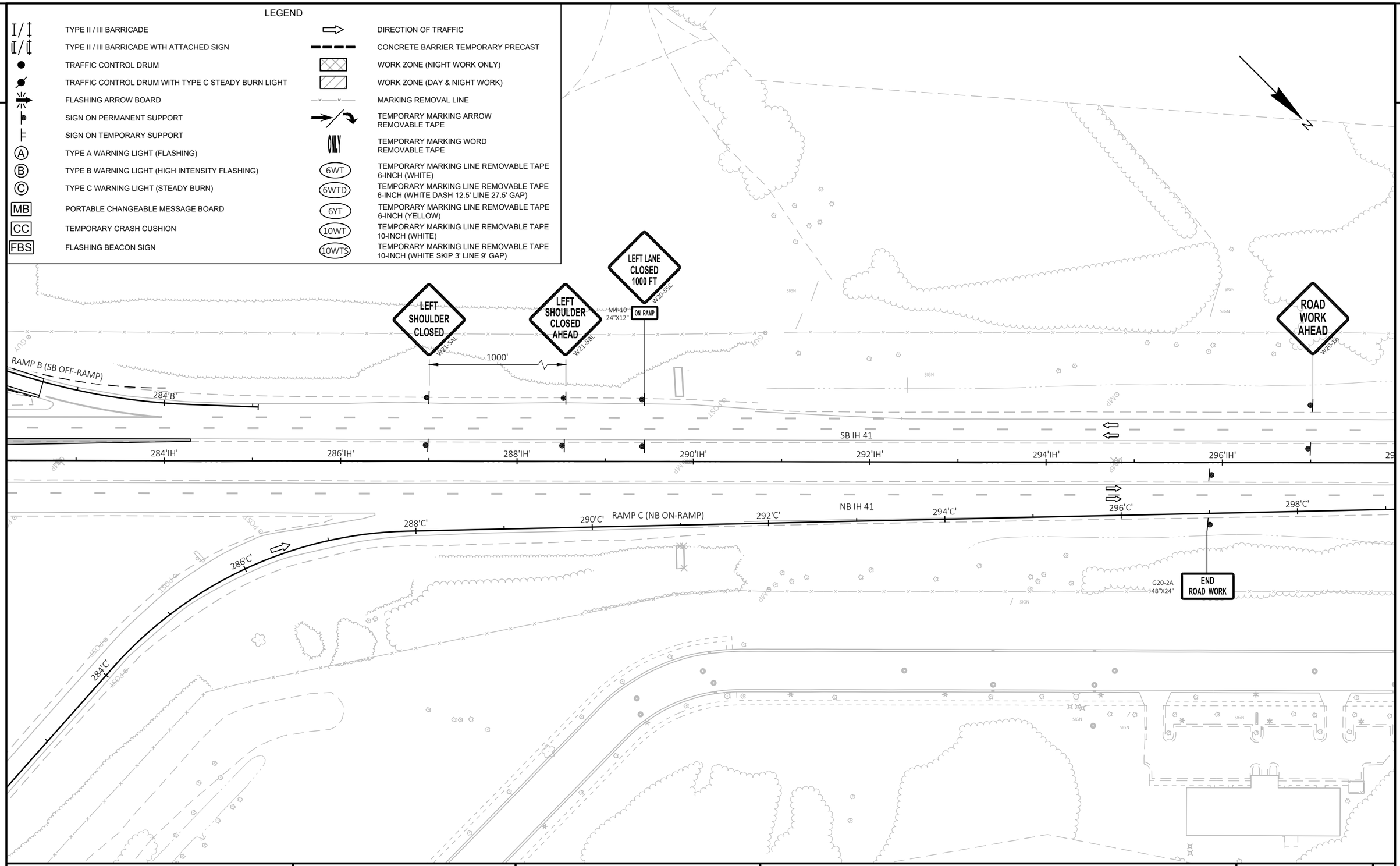
FILE NAME : K:\195704_STH 60 AND IH 41 INTERSECTION\3.0 DELIVERABLES\3.02 ROADWAY\AUTOCAD\SHEETS\026241-S2.DWG
LAYOUT NAME - 025026-tc
PLOT DATE : 10/18/2025 5:57 PM PLOT BY : OLSEN, CASSIE PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

LEGEND

I/‡	TYPE II / III BARRICADE	⇨	DIRECTION OF TRAFFIC
I/‡	TYPE II / III BARRICADE WTH ATTACHED SIGN	▬ ▬ ▬	CONCRETE BARRIER TEMPORARY PRECAST
●	TRAFFIC CONTROL DRUM	▨	WORK ZONE (NIGHT WORK ONLY)
●	TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT	▨	WORK ZONE (DAY & NIGHT WORK)
✳	FLASHING ARROW BOARD	— x — x —	MARKING REMOVAL LINE
●	SIGN ON PERMANENT SUPPORT	➔	TEMPORARY MARKING ARROW REMOVABLE TAPE
‡	SIGN ON TEMPORARY SUPPORT	ONLY	TEMPORARY MARKING WORD REMOVABLE TAPE
Ⓐ	TYPE A WARNING LIGHT (FLASHING)	6WT	TEMPORARY MARKING LINE REMOVABLE TAPE 6-INCH (WHITE)
Ⓑ	TYPE B WARNING LIGHT (HIGH INTENSITY FLASHING)	6WTD	TEMPORARY MARKING LINE REMOVABLE TAPE 6-INCH (WHITE DASH 12.5' LINE 27.5' GAP)
Ⓒ	TYPE C WARNING LIGHT (STEADY BURN)	6YT	TEMPORARY MARKING LINE REMOVABLE TAPE 6-INCH (YELLOW)
MB	PORTABLE CHANGEABLE MESSAGE BOARD	10WT	TEMPORARY MARKING LINE REMOVABLE TAPE 10-INCH (WHITE)
CC	TEMPORARY CRASH CUSHION	10WTS	TEMPORARY MARKING LINE REMOVABLE TAPE 10-INCH (WHITE SKIP 3' LINE 9' GAP)
FBS	FLASHING BEACON SIGN		



PROJECT NO: 2310-09-71	HWY: STH 60	COUNTY: WASHINGTON	TRAFFIC CONTROL - IH 41 STAGE 2 (DAY & NIGHT WORK)	SHEET 159	E

FILE NAME : K:\195704_STH 60 AND IH 41 INTERSECTION\3.0 DELIVERABLES\3.02 ROADWAY\AUTOCAD\SHEETS\026241-S2.DWG
LAYOUT NAME - 025026-tc

PLOT DATE : 10/18/2025 5:58 PM PLOT BY : OLSEN, CASSIE PLOT NAME : PLOT SCALE : 1 IN:100 FT

2

LEGEND

I/I	TYPE II / III BARRICADE	⇨	DIRECTION OF TRAFFIC
I/I	TYPE II / III BARRICADE WTH ATTACHED SIGN	▬ ▬ ▬	CONCRETE BARRIER TEMPORARY PRECAST
●	TRAFFIC CONTROL DRUM	▨	WORK ZONE (NIGHT WORK ONLY)
●	TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT	▨	WORK ZONE (DAY & NIGHT WORK)
✳	FLASHING ARROW BOARD	—×—×—	MARKING REMOVAL LINE
●	SIGN ON PERMANENT SUPPORT	➔	TEMPORARY MARKING ARROW REMOVABLE TAPE
⊢	SIGN ON TEMPORARY SUPPORT	ONLY	TEMPORARY MARKING WORD REMOVABLE TAPE
Ⓐ	TYPE A WARNING LIGHT (FLASHING)	6WT	TEMPORARY MARKING LINE REMOVABLE TAPE 6-INCH (WHITE)
Ⓑ	TYPE B WARNING LIGHT (HIGH INTENSITY FLASHING)	6WTD	TEMPORARY MARKING LINE REMOVABLE TAPE 6-INCH (WHITE DASH 12.5' LINE 27.5' GAP)
Ⓒ	TYPE C WARNING LIGHT (STEADY BURN)	6YT	TEMPORARY MARKING LINE REMOVABLE TAPE 6-INCH (YELLOW)
MB	PORTABLE CHANGEABLE MESSAGE BOARD	10WT	TEMPORARY MARKING LINE REMOVABLE TAPE 10-INCH (WHITE)
CC	TEMPORARY CRASH CUSHION	10WTS	TEMPORARY MARKING LINE REMOVABLE TAPE 10-INCH (WHITE SKIP 3' LINE 9' GAP)
FBS	FLASHING BEACON SIGN		

PCMS MESSAGING

ONE WEEK IN ADVANCE OF STAGE 2A

FRAME 1	FRAME 2
NEW TRAFFIC PATTERN	BEGINS XXDAY XX AM/PM

N

IH 41 SB OFF RAMP

STOP R1-1 30"X30"

TEMPORARY MARKING STOP LINE REMOVABLE TAPE 18-INCH

STH 144

STOP R1-1 30"X30"

END ROAD WORK G20-2A 48"X24"

TEMPORARY MARKING STOP LINE REMOVABLE TAPE 18-INCH

MB

STOP R1-1 30"X30"

ROAD WORK AHEAD W20-2A

WO3-1 36"X36"

250'

IH 41 SB ON RAMP

IH 41 SB

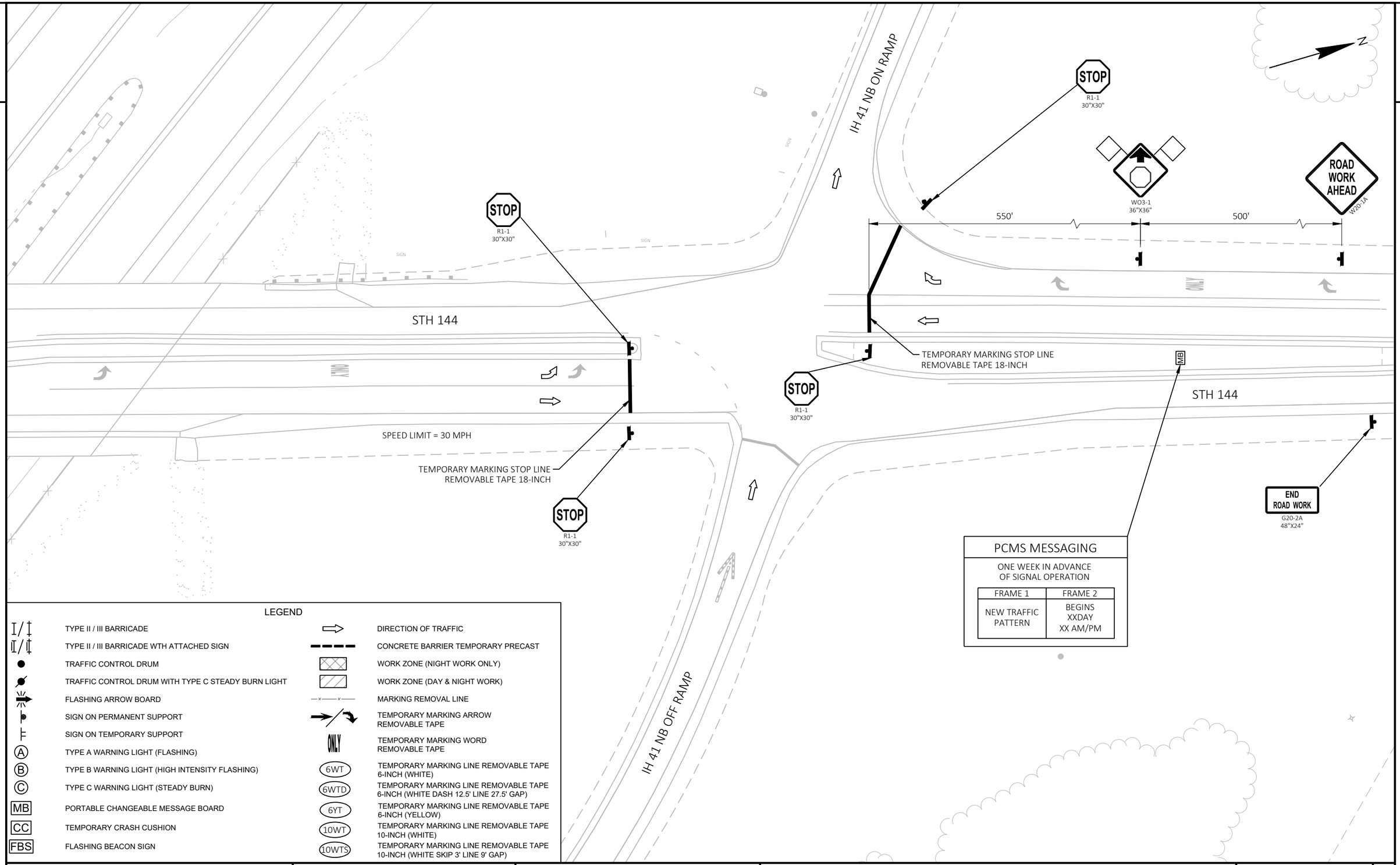
PROJECT NO: 2310-09-71	HWY: STH 60	COUNTY: WASHINGTON	TRAFFIC CONTROL - STH 144 STAGE 2 (DAY & NIGHT)	SHEET 160 E

FILE NAME : K:\195704_STH 60 AND IH 41 INTERSECTION\3.0 DELIVERABLES\3.02 ROADWAY\AUTOCAD\SHEETS\026261-S2-144SB.DWG
LAYOUT NAME - 01

PLOT DATE : 10/21/2025 8:59 PM PLOT BY : OLSEN, CASSIE PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2



LEGEND

I/I	TYPE II / III BARRICADE	⇨	DIRECTION OF TRAFFIC
I/I	TYPE II / III BARRICADE WTH ATTACHED SIGN	▬ ▬ ▬	CONCRETE BARRIER TEMPORARY PRECAST
●	TRAFFIC CONTROL DRUM	▨	WORK ZONE (NIGHT WORK ONLY)
●	TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT	▨	WORK ZONE (DAY & NIGHT WORK)
➔	FLASHING ARROW BOARD	—x—x—	MARKING REMOVAL LINE
●	SIGN ON PERMANENT SUPPORT	➔	TEMPORARY MARKING ARROW REMOVABLE TAPE
⊢	SIGN ON TEMPORARY SUPPORT	ONLY	TEMPORARY MARKING WORD REMOVABLE TAPE
Ⓐ	TYPE A WARNING LIGHT (FLASHING)	6WT	TEMPORARY MARKING LINE REMOVABLE TAPE 6-INCH (WHITE)
Ⓑ	TYPE B WARNING LIGHT (HIGH INTENSITY FLASHING)	6WTD	TEMPORARY MARKING LINE REMOVABLE TAPE 6-INCH (WHITE DASH 12.5' LINE 27.5' GAP)
Ⓒ	TYPE C WARNING LIGHT (STEADY BURN)	6YT	TEMPORARY MARKING LINE REMOVABLE TAPE 6-INCH (YELLOW)
MB	PORTABLE CHANGEABLE MESSAGE BOARD	10WT	TEMPORARY MARKING LINE REMOVABLE TAPE 10-INCH (WHITE)
CC	TEMPORARY CRASH CUSHION	10WTS	TEMPORARY MARKING LINE REMOVABLE TAPE 10-INCH (WHITE SKIP 3' LINE 9' GAP)
FBS	FLASHING BEACON SIGN		

PROJECT NO: 2310-09-71	HWY: STH 60	COUNTY: WASHINGTON	TRAFFIC CONTROL - STH 144 STAGE 2 (DAY & NIGHT)	SHEET 161	E

2

2

N

312 314 316 318 320 322 324 326

WB STH 60

EB STH 60

1600'

ENTERPRISE DR

LOVERS LN (STH 164)

NORTH INTERSTATE 41 — MO3-1 24"X12" — M1-1 24"X24"

SOUTH INTERSTATE 41 — MO3-3 24"X12" — M1-1 24"X24"

RAMP CLOSED AHEAD — W20.53A

G20-2A 48"X24"
END ROAD WORK

ROAD CLOSED AHEAD — W20.3A

ROAD CLOSED 500 FT — W20.3D

R11-4 60" X 30"
ROAD CLOSED TO THRU TRAFFIC

TYPE III BARRICADE

M4-9R 30"X24"
DETOUR

TYPE III BARRICADE

LEGEND

I/I	TYPE II / III BARRICADE	(S)	PORTABLE TRAFFIC SENSOR (PTS)
I/I	TYPE II / III BARRICADE WTH ATTACHED SIGN	⇨	DIRECTION OF TRAFFIC
●	TRAFFIC CONTROL DRUM		CONCRETE BARRIER TEMPORARY PRECAST
	TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT		WORK ZONE (NIGHT WORK ONLY)
	FLASHING ARROW BOARD		WORK ZONE (DAY & NIGHT WORK)
	SIGN ON PERMANENT SUPPORT		MARKING REMOVAL LINE
	SIGN ON TEMPORARY SUPPORT		TEMPORARY MARKING ARROW REMOVABLE TAPE
(A)	TYPE A WARNING LIGHT (FLASHING)	ONLY	TEMPORARY MARKING WORD REMOVABLE TAPE
(B)	TYPE B WARNING LIGHT (HIGH INTENSITY FLASHING)	6WT	TEMPORARY MARKING LINE REMOVABLE TAPE 6-INCH (WHITE)
(C)	TYPE C WARNING LIGHT (STEADY BURN)	6WTD	TEMPORARY MARKING LINE REMOVABLE TAPE 6-INCH (WHITE DASH 12.5' LINE 27.5' GAP)
MB	PORTABLE CHANGEABLE MESSAGE BOARD	6YT	TEMPORARY MARKING LINE REMOVABLE TAPE 6-INCH (YELLOW)
CC	TEMPORARY CRASH CUSHION	10WT	TEMPORARY MARKING LINE REMOVABLE TAPE 10-INCH (WHITE)
FBS	FLASHING BEACON SIGN	10WTS	TEMPORARY MARKING LINE REMOVABLE TAPE 10-INCH (WHITE SKIP 3' LINE 9' GAP)
	CONNECTED ARROW BOARD		

PROJECT NO: 2310-09-71	HWY: STH 60	COUNTY: WASHINGTON	TRAFFIC CONTROL - STH 60 STAGE 3N1 (NIGHT WORK ONLY)	SHEET 162	E

FILE NAME : K:\195704_STH 60 AND IH 41 INTERSECTION\3.0 DELIVERABLES\3.02 ROADWAY\AUTOCAD\SHEETS\026251-S2N1.DWG
LAYOUT NAME - 01

PLOT DATE : 7/15/2025 2:01 PM PLOT BY : OLSEN, CASSIE PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

2

N

326 328 330 332 WB STH 60 334 336 338 340

EB STH 60

ROAD CLOSED 1000 FT W20-3C

ROAD CLOSED 500 FT W20-3D

R11-2 48" X 30" ROAD CLOSED

TYPE III BARRICADE

LEGEND

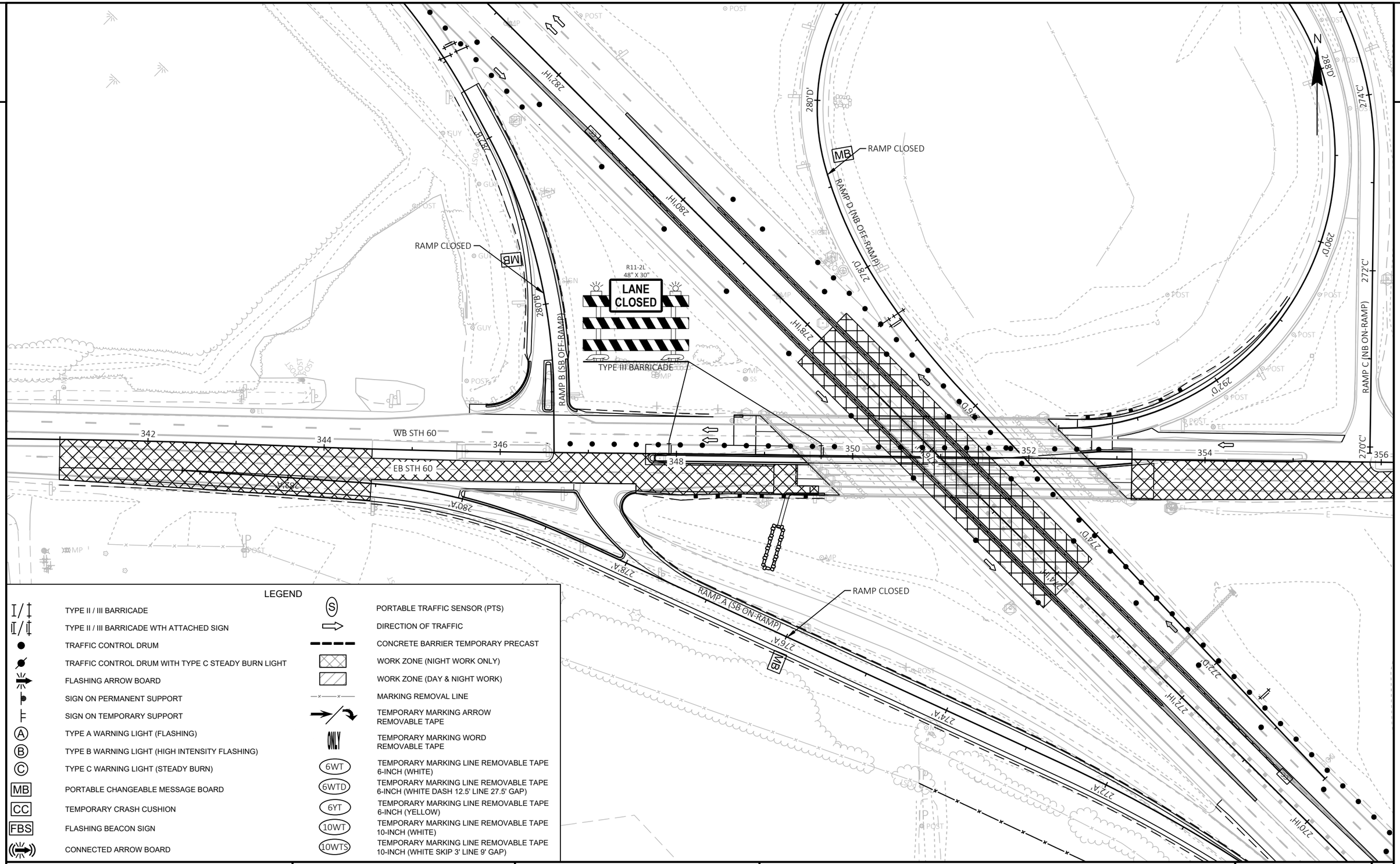
I/‡	TYPE II / III BARRICADE	S	PORTABLE TRAFFIC SENSOR (PTS)
I/‡	TYPE II / III BARRICADE WTH ATTACHED SIGN	⇨	DIRECTION OF TRAFFIC
●	TRAFFIC CONTROL DRUM	▬ ▬ ▬	CONCRETE BARRIER TEMPORARY PRECAST
●	TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT	▨	WORK ZONE (NIGHT WORK ONLY)
➡	FLASHING ARROW BOARD	▨	WORK ZONE (DAY & NIGHT WORK)
⊢	SIGN ON PERMANENT SUPPORT	—x—x—	MARKING REMOVAL LINE
⊢	SIGN ON TEMPORARY SUPPORT	➔	TEMPORARY MARKING ARROW REMOVABLE TAPE
A	TYPE A WARNING LIGHT (FLASHING)	ONLY	TEMPORARY MARKING WORD REMOVABLE TAPE
B	TYPE B WARNING LIGHT (HIGH INTENSITY FLASHING)	6WT	TEMPORARY MARKING LINE REMOVABLE TAPE 6-INCH (WHITE)
C	TYPE C WARNING LIGHT (STEADY BURN)	6WTD	TEMPORARY MARKING LINE REMOVABLE TAPE 6-INCH (WHITE DASH 12.5' LINE 27.5' GAP)
MB	PORTABLE CHANGEABLE MESSAGE BOARD	6YT	TEMPORARY MARKING LINE REMOVABLE TAPE 6-INCH (YELLOW)
CC	TEMPORARY CRASH CUSHION	10WT	TEMPORARY MARKING LINE REMOVABLE TAPE 10-INCH (WHITE)
FBS	FLASHING BEACON SIGN	10WTS	TEMPORARY MARKING LINE REMOVABLE TAPE 10-INCH (WHITE SKIP 3' LINE 9' GAP)
((➡))	CONNECTED ARROW BOARD		

PROJECT NO: 2310-09-71	HWY: STH 60	COUNTY: WASHINGTON	TRAFFIC CONTROL - STH 60 STAGE 3N1 (NIGHT WORK ONLY)	SHEET 163	E

FILE NAME : K:\195704_STH 60 AND IH 41 INTERSECTION\3.0 DELIVERABLES\3.02 ROADWAY\AUTOCAD\SHEETS\026251-S2N1.DWG
LAYOUT NAME - 02

PLOT DATE : 7/15/2025 2:02 PM PLOT BY : OLSEN, CASSIE PLOT NAME : PLOT SCALE : 1 IN:100 FT

2



LEGEND

I/I	TYPE II / III BARRICADE	S	PORTABLE TRAFFIC SENSOR (PTS)
I/I	TYPE II / III BARRICADE WTH ATTACHED SIGN	⇨	DIRECTION OF TRAFFIC
●	TRAFFIC CONTROL DRUM	▬ ▬ ▬	CONCRETE BARRIER TEMPORARY PRECAST
●	TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT	▨	WORK ZONE (NIGHT WORK ONLY)
➡	FLASHING ARROW BOARD	▨	WORK ZONE (DAY & NIGHT WORK)
⊥	SIGN ON PERMANENT SUPPORT	—x—x—	MARKING REMOVAL LINE
⊥	SIGN ON TEMPORARY SUPPORT	➡	TEMPORARY MARKING ARROW REMOVABLE TAPE
Ⓐ	TYPE A WARNING LIGHT (FLASHING)	ONLY	TEMPORARY MARKING WORD REMOVABLE TAPE
Ⓑ	TYPE B WARNING LIGHT (HIGH INTENSITY FLASHING)	6WT	TEMPORARY MARKING LINE REMOVABLE TAPE 6-INCH (WHITE)
Ⓒ	TYPE C WARNING LIGHT (STEADY BURN)	6WTD	TEMPORARY MARKING LINE REMOVABLE TAPE 6-INCH (WHITE DASH 12.5' LINE 27.5' GAP)
MB	PORTABLE CHANGEABLE MESSAGE BOARD	6YT	TEMPORARY MARKING LINE REMOVABLE TAPE 6-INCH (YELLOW)
CC	TEMPORARY CRASH CUSHION	10WT	TEMPORARY MARKING LINE REMOVABLE TAPE 10-INCH (WHITE)
FBS	FLASHING BEACON SIGN	10WTS	TEMPORARY MARKING LINE REMOVABLE TAPE 10-INCH (WHITE SKIP 3' LINE 9' GAP)
((➡))	CONNECTED ARROW BOARD		

PROJECT NO: 2310-09-71	HWY: STH 60	COUNTY: WASHINGTON	TRAFFIC CONTROL - STH 60 STAGE 3N1 (NIGHT WORK ONLY)	SHEET 164	E

2

LEGEND

I/‡	TYPE II / III BARRICADE	S	PORTABLE TRAFFIC SENSOR (PTS)
I/‡	TYPE II / III BARRICADE WTH ATTACHED SIGN	⇨	DIRECTION OF TRAFFIC
●	TRAFFIC CONTROL DRUM	▬ ▬ ▬	CONCRETE BARRIER TEMPORARY PRECAST
●	TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT	▨	WORK ZONE (NIGHT WORK ONLY)
➡	FLASHING ARROW BOARD	▨	WORK ZONE (DAY & NIGHT WORK)
●	SIGN ON PERMANENT SUPPORT	—×—×—	MARKING REMOVAL LINE
⊢	SIGN ON TEMPORARY SUPPORT	➔	TEMPORARY MARKING ARROW REMOVABLE TAPE
Ⓐ	TYPE A WARNING LIGHT (FLASHING)	ONLY	TEMPORARY MARKING WORD REMOVABLE TAPE
Ⓑ	TYPE B WARNING LIGHT (HIGH INTENSITY FLASHING)	6WT	TEMPORARY MARKING LINE REMOVABLE TAPE 6-INCH (WHITE)
Ⓒ	TYPE C WARNING LIGHT (STEADY BURN)	6WTD	TEMPORARY MARKING LINE REMOVABLE TAPE 6-INCH (WHITE DASH 12.5' LINE 27.5' GAP)
MB	PORTABLE CHANGEABLE MESSAGE BOARD	6YT	TEMPORARY MARKING LINE REMOVABLE TAPE 6-INCH (YELLOW)
CC	TEMPORARY CRASH CUSHION	10WT	TEMPORARY MARKING LINE REMOVABLE TAPE 10-INCH (WHITE)
FBS	FLASHING BEACON SIGN	10WTS	TEMPORARY MARKING LINE REMOVABLE TAPE 10-INCH (WHITE SKIP 3' LINE 9' GAP)
((➡))	CONNECTED ARROW BOARD		

N

SOUTH INTERSTATE 41 — MO3-3 24"X12"

M1-1 24"X24"

RAMP CLOSED AHEAD W20.53A

270'C'

356 358 360 362 364 366 368 370

WB STH 60

EB STH 60

271'E

RAMP E (NB OFF-RAMP)

172'E

MB

RAMP CLOSED

IH 894

PROJECT NO: 2310-09-71	HWY: STH 60	COUNTY: WASHINGTON	TRAFFIC CONTROL - STH 60 STAGE 3N1 (NIGHT WORK ONLY)	SHEET 165	E

FILE NAME : K:\195704_STH 60 AND IH 41 INTERSECTION\3.0 DELIVERABLES\3.02 ROADWAY\AUTOCAD\SHEETS\026251-S2N1.DWG
LAYOUT NAME - 04

PLOT DATE : 7/15/2025 2:03 PM PLOT BY : OLSEN, CASSIE PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

N

SOUTH
INTERSTATE
41
M03-3
24"X12"
M1-1
24"X24"
RAMP CLOSED AHEAD
W20-53A

CTH Ⓒ (HILLSIDE RD)

ROAD WORK AHEAD
W20-1A

WB STH 60

EB STH 60

370 372 374 376 378 380 382 384

SIGN

SS

SOUTH
INTERSTATE
41
M03-3
24"X12"
M1-1
24"X24"
RAMP CLOSED AHEAD
W20-53A

LEGEND

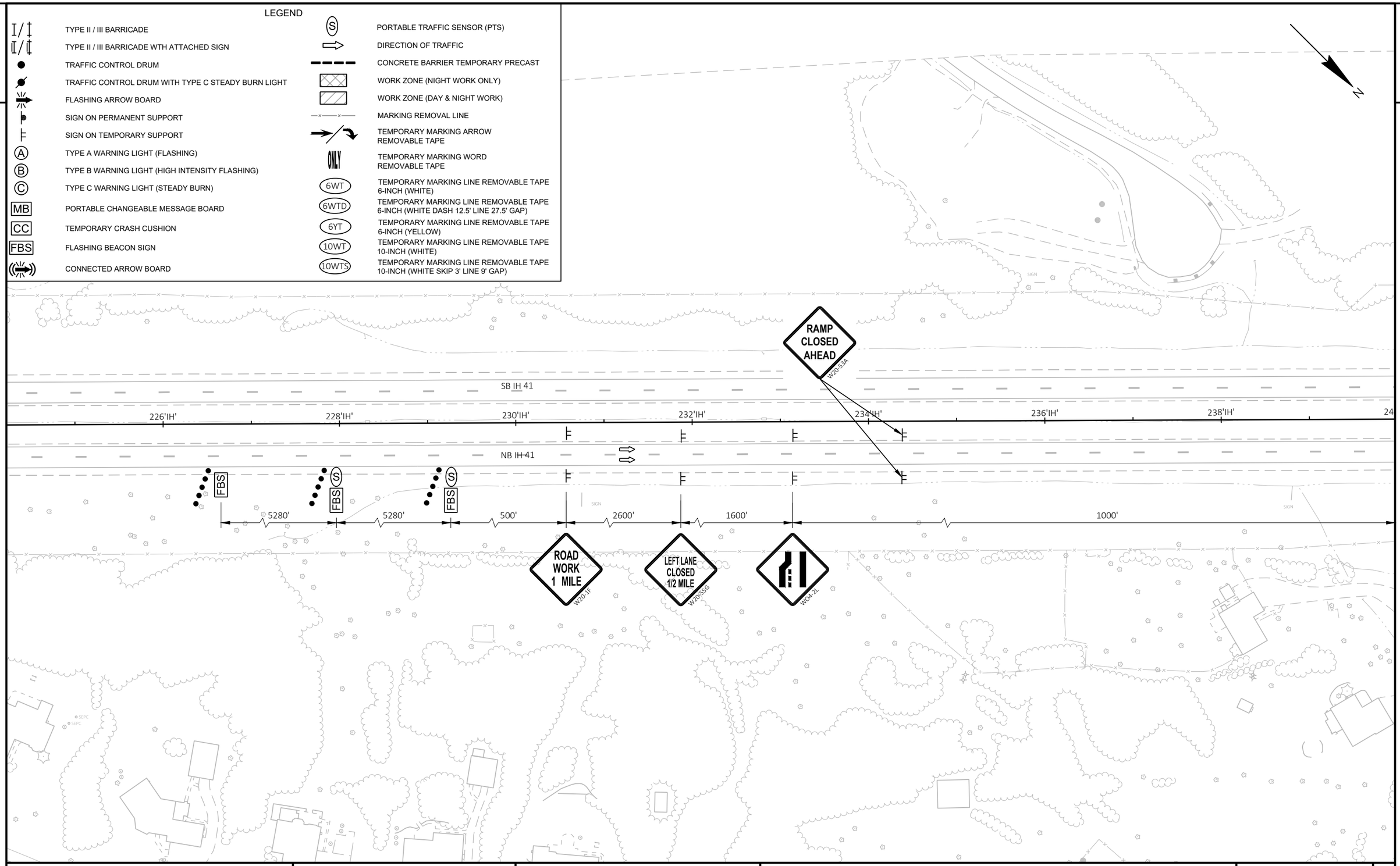
I/I	TYPE II / III BARRICADE	S	PORTABLE TRAFFIC SENSOR (PTS)
I/I	TYPE II / III BARRICADE WTH ATTACHED SIGN	⇨	DIRECTION OF TRAFFIC
●	TRAFFIC CONTROL DRUM	▬ ▬ ▬	CONCRETE BARRIER TEMPORARY PRECAST
●	TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT	▨	WORK ZONE (NIGHT WORK ONLY)
	FLASHING ARROW BOARD	▨	WORK ZONE (DAY & NIGHT WORK)
	SIGN ON PERMANENT SUPPORT	×—×—×	MARKING REMOVAL LINE
	SIGN ON TEMPORARY SUPPORT	→	TEMPORARY MARKING ARROW REMOVABLE TAPE
Ⓐ	TYPE A WARNING LIGHT (FLASHING)	ONLY	TEMPORARY MARKING WORD REMOVABLE TAPE
Ⓑ	TYPE B WARNING LIGHT (HIGH INTENSITY FLASHING)	6WT	TEMPORARY MARKING LINE REMOVABLE TAPE 6-INCH (WHITE)
Ⓒ	TYPE C WARNING LIGHT (STEADY BURN)	6WTD	TEMPORARY MARKING LINE REMOVABLE TAPE 6-INCH (WHITE DASH 12.5' LINE 27.5' GAP)
MB	PORTABLE CHANGEABLE MESSAGE BOARD	6YT	TEMPORARY MARKING LINE REMOVABLE TAPE 6-INCH (YELLOW)
CC	TEMPORARY CRASH CUSHION	10WT	TEMPORARY MARKING LINE REMOVABLE TAPE 10-INCH (WHITE)
FBS	FLASHING BEACON SIGN	10WTS	TEMPORARY MARKING LINE REMOVABLE TAPE 10-INCH (WHITE SKIP 3' LINE 9' GAP)
	CONNECTED ARROW BOARD		

PROJECT NO: 2310-09-71	HWY: STH 60	COUNTY: WASHINGTON	TRAFFIC CONTROL - STH 60 STAGE 3N1 (NIGHT WORK ONLY)	SHEET 166	E

2

LEGEND

TYPE II / III BARRICADE	PORTABLE TRAFFIC SENSOR (PTS)
TYPE II / III BARRICADE WTH ATTACHED SIGN	DIRECTION OF TRAFFIC
TRAFFIC CONTROL DRUM	CONCRETE BARRIER TEMPORARY PRECAST
TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT	WORK ZONE (NIGHT WORK ONLY)
FLASHING ARROW BOARD	WORK ZONE (DAY & NIGHT WORK)
SIGN ON PERMANENT SUPPORT	MARKING REMOVAL LINE
SIGN ON TEMPORARY SUPPORT	TEMPORARY MARKING ARROW REMOVABLE TAPE
TYPE A WARNING LIGHT (FLASHING)	TEMPORARY MARKING WORD REMOVABLE TAPE
TYPE B WARNING LIGHT (HIGH INTENSITY FLASHING)	6WT — TEMPORARY MARKING LINE REMOVABLE TAPE 6-INCH (WHITE)
TYPE C WARNING LIGHT (STEADY BURN)	6WTD — TEMPORARY MARKING LINE REMOVABLE TAPE 6-INCH (WHITE DASH 12.5' LINE 27.5' GAP)
MB — PORTABLE CHANGEABLE MESSAGE BOARD	6YT — TEMPORARY MARKING LINE REMOVABLE TAPE 6-INCH (YELLOW)
CC — TEMPORARY CRASH CUSHION	10WT — TEMPORARY MARKING LINE REMOVABLE TAPE 10-INCH (WHITE)
FBS — FLASHING BEACON SIGN	10WTS — TEMPORARY MARKING LINE REMOVABLE TAPE 10-INCH (WHITE SKIP 3' LINE 9' GAP)
CONNECTED ARROW BOARD	



PROJECT NO: 2310-09-71	HWY: STH 60	COUNTY: WASHINGTON	TRAFFIC CONTROL - IH 41 STAGE 3N1 (NIGHT WORK ONLY)	SHEET 167	E

FILE NAME : K:\195704_STH 60 AND IH 41 INTERSECTION\3.0 DELIVERABLES\3.02 ROADWAY\AUTOCAD\SHEETS\026251-S2N1.DWG
LAYOUT NAME - 11

PLOT DATE : 7/15/2025 2:05 PM PLOT BY : OLSEN, CASSIE PLOT NAME : PLOT SCALE :

2

LEGEND

TYPE II / III BARRICADE	PORTABLE TRAFFIC SENSOR (PTS)
TYPE II / III BARRICADE WTH ATTACHED SIGN	DIRECTION OF TRAFFIC
TRAFFIC CONTROL DRUM	CONCRETE BARRIER TEMPORARY PRECAST
TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT	WORK ZONE (NIGHT WORK ONLY)
FLASHING ARROW BOARD	WORK ZONE (DAY & NIGHT WORK)
SIGN ON PERMANENT SUPPORT	MARKING REMOVAL LINE
SIGN ON TEMPORARY SUPPORT	TEMPORARY MARKING ARROW REMOVABLE TAPE
TYPE A WARNING LIGHT (FLASHING)	TEMPORARY MARKING WORD REMOVABLE TAPE
TYPE B WARNING LIGHT (HIGH INTENSITY FLASHING)	6WT — TEMPORARY MARKING LINE REMOVABLE TAPE 6-INCH (WHITE)
TYPE C WARNING LIGHT (STEADY BURN)	6WTD — TEMPORARY MARKING LINE REMOVABLE TAPE 6-INCH (WHITE DASH 12.5' LINE 27.5' GAP)
PORTABLE CHANGEABLE MESSAGE BOARD	6YT — TEMPORARY MARKING LINE REMOVABLE TAPE 6-INCH (YELLOW)
TEMPORARY CRASH CUSHION	10WT — TEMPORARY MARKING LINE REMOVABLE TAPE 10-INCH (WHITE)
FLASHING BEACON SIGN	10WTS — TEMPORARY MARKING LINE REMOVABLE TAPE 10-INCH (WHITE SKIP 3' LINE 9' GAP)
CONNECTED ARROW BOARD	

2

N

R11-2L
48" X 30"
LANE CLOSED
TYPE III BARRICADE

RAMP CLOSED 1000 FT
W20-5aC

SB IH 41
NB IH 41

242'IH' 244'IH' 246'IH' 248'IH' 250'IH' 252'IH' 254'IH'

+25.00, 23.00' RT
+65.00, 38.00' RT

500'
1000'
50' TYP
840'
100' TYP
1600'

ROAD WORK AHEAD
W20-1A

LEFT SHOULDER CLOSED AHEAD
W21-5BL

SIGNS IN PLACE
DAYTIME ONLY

PROJECT NO: 2310-09-71	HWY: STH 60	COUNTY: WASHINGTON	TRAFFIC CONTROL - IH 41 STAGE 3N1 (NIGHT WORK ONLY)	SHEET 168	E

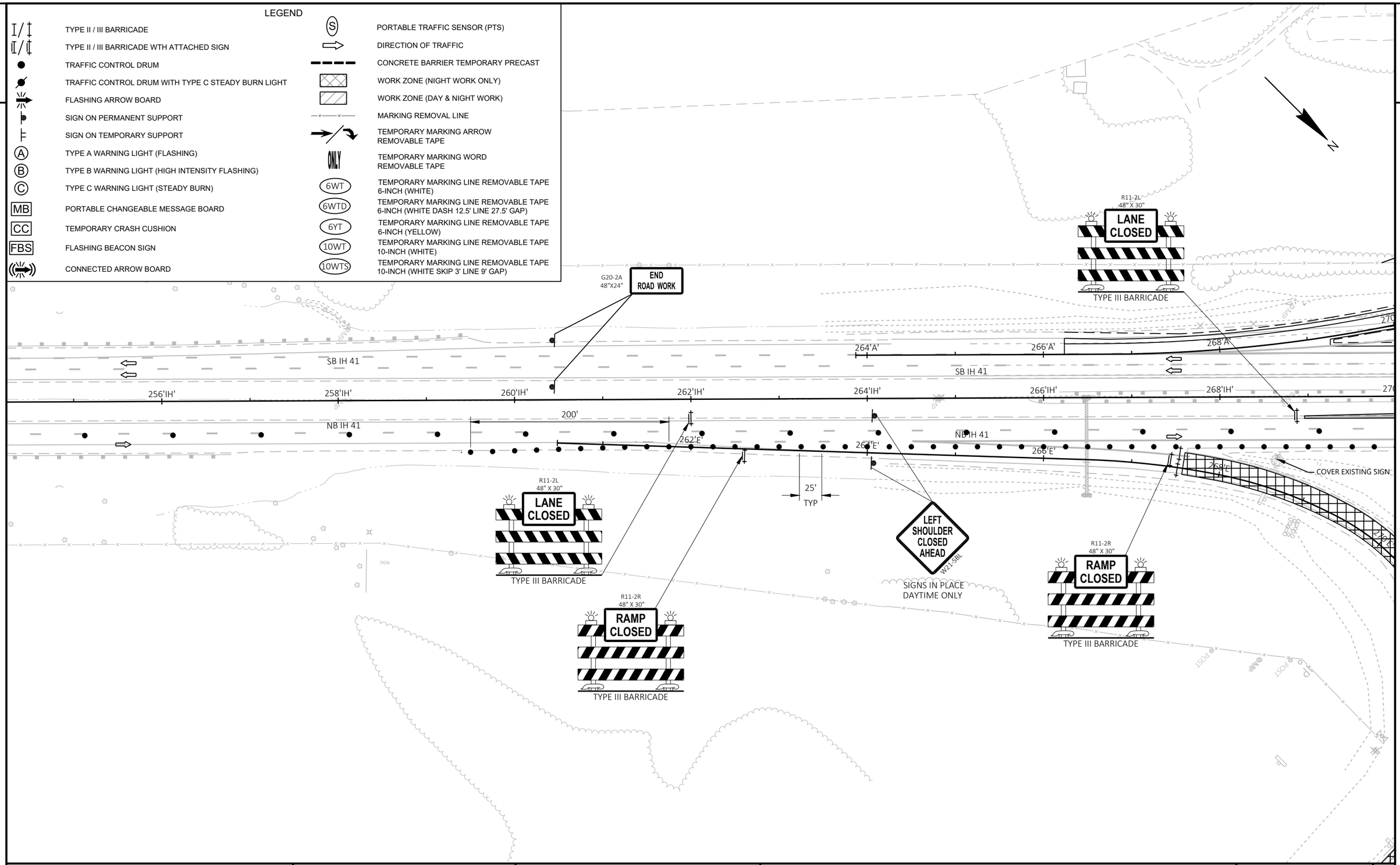
FILE NAME : K:\195704_STH 60 AND IH 41 INTERSECTION\3.0 DELIVERABLES\3.02 ROADWAY\AUTOCAD\SHEETS\026251-S2N1.DWG
LAYOUT NAME - 025026-tc

PLOT DATE : 7/15/2025 2:06 PM PLOT BY : OLSEN, CASSIE PLOT NAME : PLOT SCALE : 1 IN:100 FT

2

LEGEND

- TYPE II / III BARRICADE
- TYPE II / III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- FLASHING ARROW BOARD
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- (A) TYPE A WARNING LIGHT (FLASHING)
- (B) TYPE B WARNING LIGHT (HIGH INTENSITY FLASHING)
- (C) TYPE C WARNING LIGHT (STEADY BURN)
- MB PORTABLE CHANGEABLE MESSAGE BOARD
- CC TEMPORARY CRASH CUSHION
- FBS FLASHING BEACON SIGN
- CONNECTED ARROW BOARD
- (S) PORTABLE TRAFFIC SENSOR (PTS)
- DIRECTION OF TRAFFIC
- CONCRETE BARRIER TEMPORARY PRECAST
- WORK ZONE (NIGHT WORK ONLY)
- WORK ZONE (DAY & NIGHT WORK)
- MARKING REMOVAL LINE
- TEMPORARY MARKING ARROW REMOVABLE TAPE
- ONLY TEMPORARY MARKING WORD REMOVABLE TAPE
- 6WT TEMPORARY MARKING LINE REMOVABLE TAPE 6-INCH (WHITE)
- 6WTD TEMPORARY MARKING LINE REMOVABLE TAPE 6-INCH (WHITE DASH 12.5' LINE 27.5' GAP)
- 6YT TEMPORARY MARKING LINE REMOVABLE TAPE 6-INCH (YELLOW)
- 10WT TEMPORARY MARKING LINE REMOVABLE TAPE 10-INCH (WHITE)
- 10WTS TEMPORARY MARKING LINE REMOVABLE TAPE 10-INCH (WHITE SKIP 3' LINE 9' GAP)



PROJECT NO: 2310-09-71	HWY: STH 60	COUNTY: WASHINGTON	TRAFFIC CONTROL - IH 41 STAGE 3N1 (NIGHT WORK ONLY)	SHEET 169	E

FILE NAME : K:\195704_STH 60 AND IH 41 INTERSECTION\3.0 DELIVERABLES\3.02 ROADWAY\AUTOCAD\SHEETS\026251-S2N1.DWG
LAYOUT NAME - 025026-tc
PLOT DATE : 7/15/2025 2:07 PM PLOT BY : OLSEN, CASSIE PLOT NAME : PLOT SCALE : 1 IN:100 FT

2

LEGEND

I/‡	TYPE II / III BARRICADE	S	PORTABLE TRAFFIC SENSOR (PTS)
I/‡	TYPE II / III BARRICADE WTH ATTACHED SIGN	⇨	DIRECTION OF TRAFFIC
●	TRAFFIC CONTROL DRUM	▬ ▬ ▬	CONCRETE BARRIER TEMPORARY PRECAST
●	TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT	▨	WORK ZONE (NIGHT WORK ONLY)
⇨	FLASHING ARROW BOARD	▨	WORK ZONE (DAY & NIGHT WORK)
●	SIGN ON PERMANENT SUPPORT	—×—×—	MARKING REMOVAL LINE
‡	SIGN ON TEMPORARY SUPPORT	⇨	TEMPORARY MARKING ARROW REMOVABLE TAPE
A	TYPE A WARNING LIGHT (FLASHING)	ONLY	TEMPORARY MARKING WORD REMOVABLE TAPE
B	TYPE B WARNING LIGHT (HIGH INTENSITY FLASHING)	6WT	TEMPORARY MARKING LINE REMOVABLE TAPE 6-INCH (WHITE)
C	TYPE C WARNING LIGHT (STEADY BURN)	6WTD	TEMPORARY MARKING LINE REMOVABLE TAPE 6-INCH (WHITE DASH 12.5' LINE 27.5' GAP)
MB	PORTABLE CHANGEABLE MESSAGE BOARD	6YT	TEMPORARY MARKING LINE REMOVABLE TAPE 6-INCH (YELLOW)
CC	TEMPORARY CRASH CUSHION	10WT	TEMPORARY MARKING LINE REMOVABLE TAPE 10-INCH (WHITE)
FBS	FLASHING BEACON SIGN	10WTS	TEMPORARY MARKING LINE REMOVABLE TAPE 10-INCH (WHITE SKIP 3' LINE 9' GAP)
⇨	CONNECTED ARROW BOARD		

FRAME 1	FRAME 2
RAMP TO CLOSE	XXDAY XX TO XX

FRAME 1	FRAME 2
RAMP TO CLOSE	XXDAY XX TO XX

R11-2L
48" X 30"
LANE CLOSED
TYPE III BARRICADE

R11-2R
48" X 30"
RAMP CLOSED
TYPE III BARRICADE

R11-2R
48" X 30"
RAMP CLOSED
TYPE III BARRICADE

W5-52L
12"X36"

W5-52L
12"X36"

COVER EXISTING SIGN

FRAME 1	FRAME 2
RAMP TO CLOSE	XXDAY XX TO XX

FRAME 1	FRAME 2
RAMP TO CLOSE	XXDAY XX TO XX

RAMP A (SB ON-RAMP)
RAMP B (NB OFF-RAMP)
RAMP D (NB OFF-RAMP)
RAMP E (NB OFF-RAMP)

268'A' 270'A' 272'A' 274'A' 276'A' 278'A' 280'A'
268'IH' 270'IH' 272'IH' 274'IH' 276'IH' 278'IH' 280'IH' 282'IH'
272'D' 274'D' 276'D' 278'D' 280'D'
280'B' 282'B'
292'D'
342 344 346 348 350 352 354
100' TYP
25' TYP
CC
MB
FBS
N

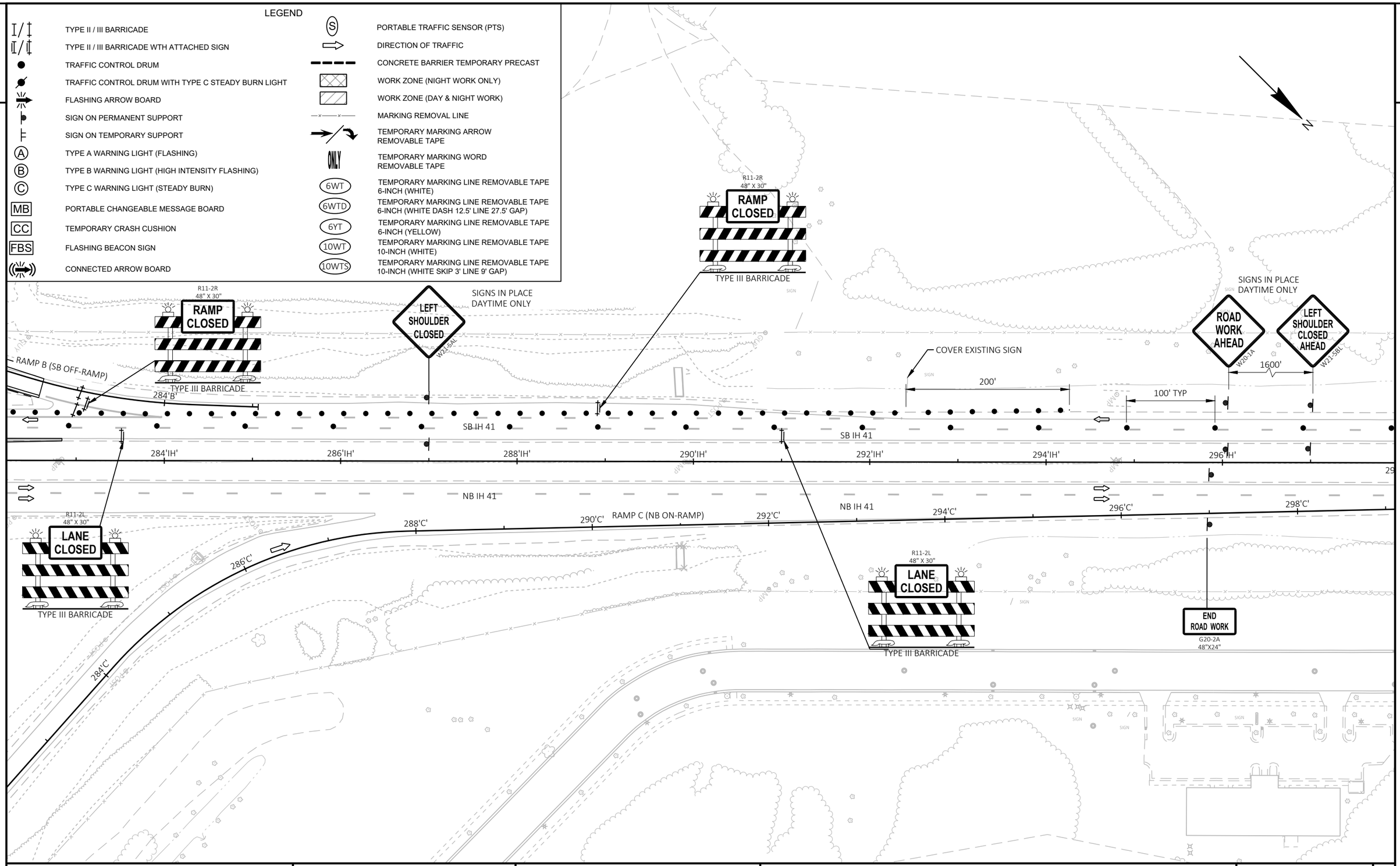
PROJECT NO: 2310-09-71	HWY: STH 60	COUNTY: WASHINGTON	TRAFFIC CONTROL - IH 41 STAGE 3N1 (NIGHT WORK ONLY)	SHEET 170	E

FILE NAME : K:\195704_STH 60 AND IH 41 INTERSECTION\3.0 DELIVERABLES\3.02 ROADWAY\AUTOCAD\SHEETS\026251-S2N1.DWG
LAYOUT NAME - 025026-tc
PLOT DATE : 7/16/2025 10:52 AM PLOT BY : OLSEN, CASSIE PLOT NAME : PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 42

2

LEGEND

- TYPE II / III BARRICADE
- TYPE II / III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- FLASHING ARROW BOARD
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- (A) TYPE A WARNING LIGHT (FLASHING)
- (B) TYPE B WARNING LIGHT (HIGH INTENSITY FLASHING)
- (C) TYPE C WARNING LIGHT (STEADY BURN)
- MB PORTABLE CHANGEABLE MESSAGE BOARD
- CC TEMPORARY CRASH CUSHION
- FBS FLASHING BEACON SIGN
- CONNECTED ARROW BOARD
- (S) PORTABLE TRAFFIC SENSOR (PTS)
- DIRECTION OF TRAFFIC
- CONCRETE BARRIER TEMPORARY PRECAST
- WORK ZONE (NIGHT WORK ONLY)
- WORK ZONE (DAY & NIGHT WORK)
- MARKING REMOVAL LINE
- TEMPORARY MARKING ARROW REMOVABLE TAPE
- ONLY TEMPORARY MARKING WORD REMOVABLE TAPE
- 6WT TEMPORARY MARKING LINE REMOVABLE TAPE 6-INCH (WHITE)
- 6WTD TEMPORARY MARKING LINE REMOVABLE TAPE 6-INCH (WHITE DASH 12.5' LINE 27.5' GAP)
- 6YT TEMPORARY MARKING LINE REMOVABLE TAPE 6-INCH (YELLOW)
- 10WT TEMPORARY MARKING LINE REMOVABLE TAPE 10-INCH (WHITE)
- 10WTS TEMPORARY MARKING LINE REMOVABLE TAPE 10-INCH (WHITE SKIP 3' LINE 9' GAP)



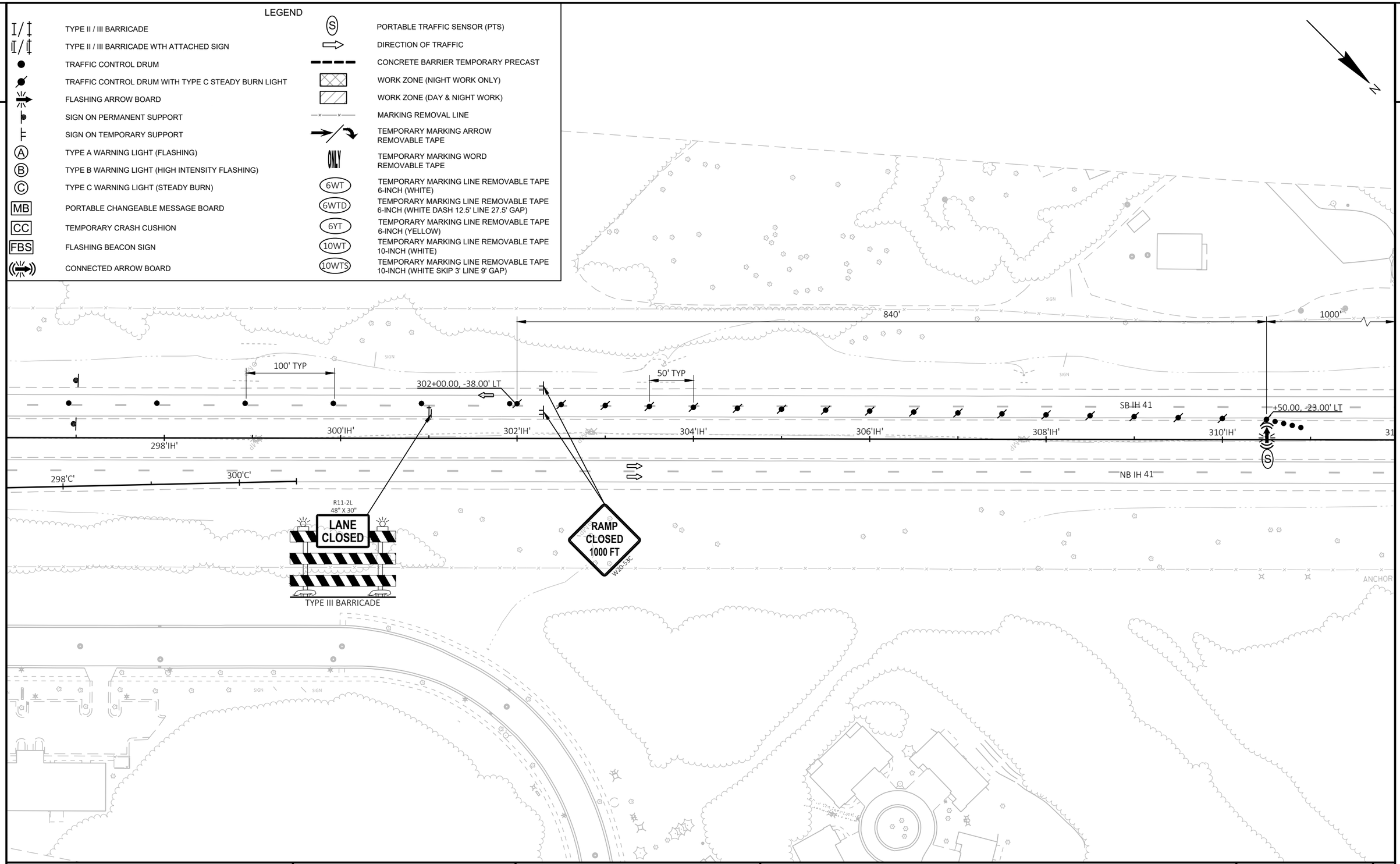
PROJECT NO: 2310-09-71	HWY: STH 60	COUNTY: WASHINGTON	TRAFFIC CONTROL - IH 41 STAGE 3N1 (NIGHT WORK ONLY)	SHEET 171	E

FILE NAME : K:\195704_STH 60 AND IH 41 INTERSECTION\3.0 DELIVERABLES\3.02 ROADWAY\AUTOCAD\SHEETS\026251-S2N1.DWG
LAYOUT NAME - 025026-tc
PLOT DATE : 7/15/2025 2:08 PM
PLOT BY : OLSEN, CASSIE
PLOT NAME :
PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 42

2

LEGEND

I/I	TYPE II / III BARRICADE	S	PORTABLE TRAFFIC SENSOR (PTS)
I/I	TYPE II / III BARRICADE WTH ATTACHED SIGN	⇨	DIRECTION OF TRAFFIC
●	TRAFFIC CONTROL DRUM	▬ ▬ ▬	CONCRETE BARRIER TEMPORARY PRECAST
●	TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT	▨	WORK ZONE (NIGHT WORK ONLY)
➡	FLASHING ARROW BOARD	▨	WORK ZONE (DAY & NIGHT WORK)
●	SIGN ON PERMANENT SUPPORT	— x — x —	MARKING REMOVAL LINE
⊢	SIGN ON TEMPORARY SUPPORT	➡	TEMPORARY MARKING ARROW REMOVABLE TAPE
A	TYPE A WARNING LIGHT (FLASHING)	ONLY	TEMPORARY MARKING WORD REMOVABLE TAPE
B	TYPE B WARNING LIGHT (HIGH INTENSITY FLASHING)	6WT	TEMPORARY MARKING LINE REMOVABLE TAPE 6-INCH (WHITE)
C	TYPE C WARNING LIGHT (STEADY BURN)	6WTD	TEMPORARY MARKING LINE REMOVABLE TAPE 6-INCH (WHITE DASH 12.5' LINE 27.5' GAP)
MB	PORTABLE CHANGEABLE MESSAGE BOARD	6YT	TEMPORARY MARKING LINE REMOVABLE TAPE 6-INCH (YELLOW)
CC	TEMPORARY CRASH CUSHION	10WT	TEMPORARY MARKING LINE REMOVABLE TAPE 10-INCH (WHITE)
FBS	FLASHING BEACON SIGN	10WTS	TEMPORARY MARKING LINE REMOVABLE TAPE 10-INCH (WHITE SKIP 3' LINE 9' GAP)
((➡))	CONNECTED ARROW BOARD		



PROJECT NO: 2310-09-71	HWY: STH 60	COUNTY: WASHINGTON	TRAFFIC CONTROL - IH 41 STAGE 3N1 (NIGHT WORK ONLY)	SHEET 172	E

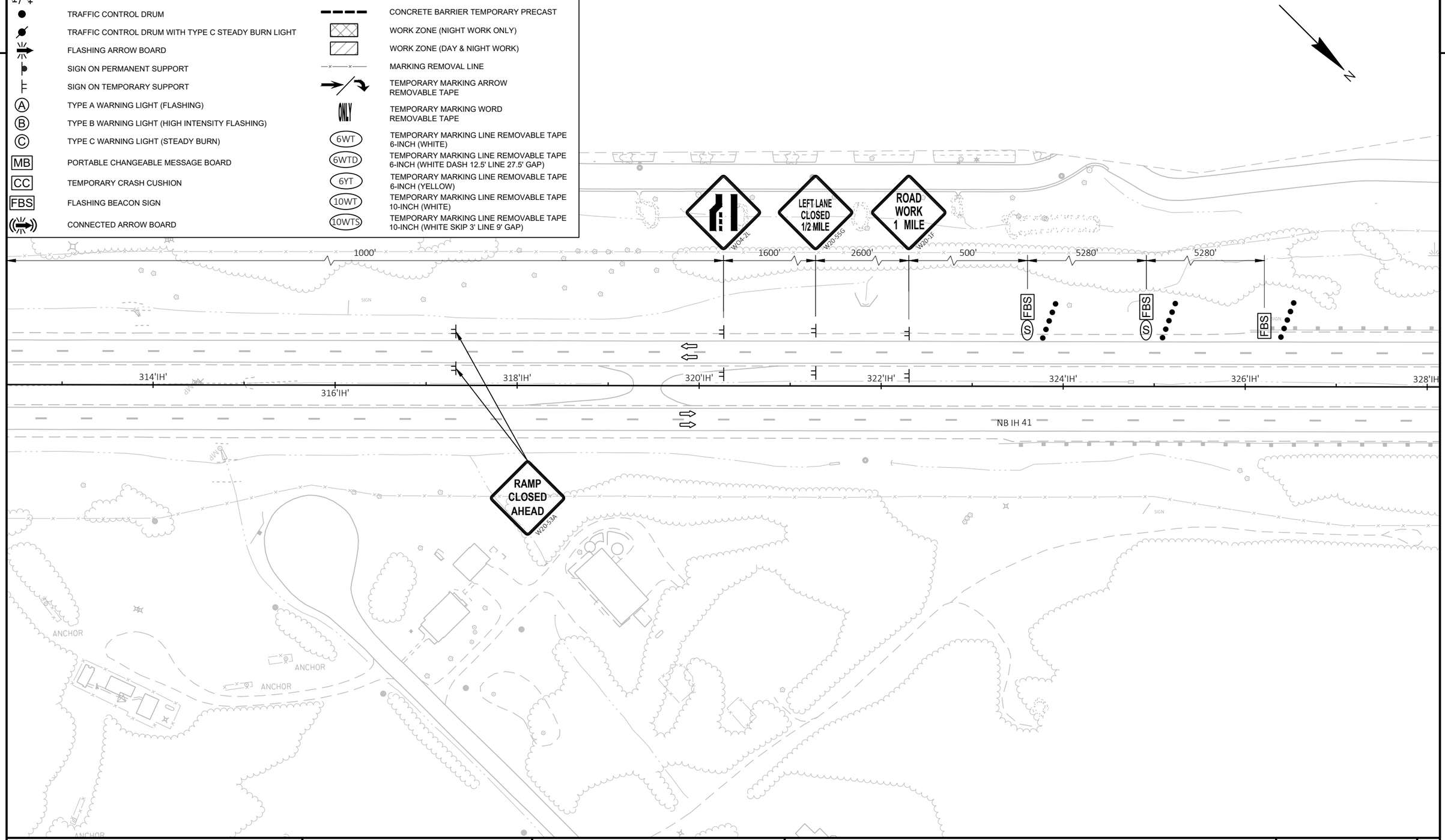
FILE NAME : K:\195704_STH 60 AND IH 41 INTERSECTION\3.0 DELIVERABLES\3.02 ROADWAY\AUTOCAD\SHEETS\026251-S2N1.DWG
LAYOUT NAME - 025026-tc

PLOT DATE : 7/15/2025 2:09 PM PLOT BY : OLSEN, CASSIE PLOT NAME : PLOT SCALE : 1 IN:100 FT

2

LEGEND

TYPE II / III BARRICADE	PORTABLE TRAFFIC SENSOR (PTS)
TYPE II / III BARRICADE WTH ATTACHED SIGN	DIRECTION OF TRAFFIC
TRAFFIC CONTROL DRUM	CONCRETE BARRIER TEMPORARY PRECAST
TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT	WORK ZONE (NIGHT WORK ONLY)
FLASHING ARROW BOARD	WORK ZONE (DAY & NIGHT WORK)
SIGN ON PERMANENT SUPPORT	MARKING REMOVAL LINE
SIGN ON TEMPORARY SUPPORT	TEMPORARY MARKING ARROW REMOVABLE TAPE
TYPE A WARNING LIGHT (FLASHING)	TEMPORARY MARKING WORD REMOVABLE TAPE
TYPE B WARNING LIGHT (HIGH INTENSITY FLASHING)	6WT — TEMPORARY MARKING LINE REMOVABLE TAPE 6-INCH (WHITE)
TYPE C WARNING LIGHT (STEADY BURN)	6WTD — TEMPORARY MARKING LINE REMOVABLE TAPE 6-INCH (WHITE DASH 12.5' LINE 27.5' GAP)
MB — PORTABLE CHANGEABLE MESSAGE BOARD	6YT — TEMPORARY MARKING LINE REMOVABLE TAPE 6-INCH (YELLOW)
CC — TEMPORARY CRASH CUSHION	10WT — TEMPORARY MARKING LINE REMOVABLE TAPE 10-INCH (WHITE)
FBS — FLASHING BEACON SIGN	10WTS — TEMPORARY MARKING LINE REMOVABLE TAPE 10-INCH (WHITE SKIP 3' LINE 9' GAP)
CONNECTED ARROW BOARD	



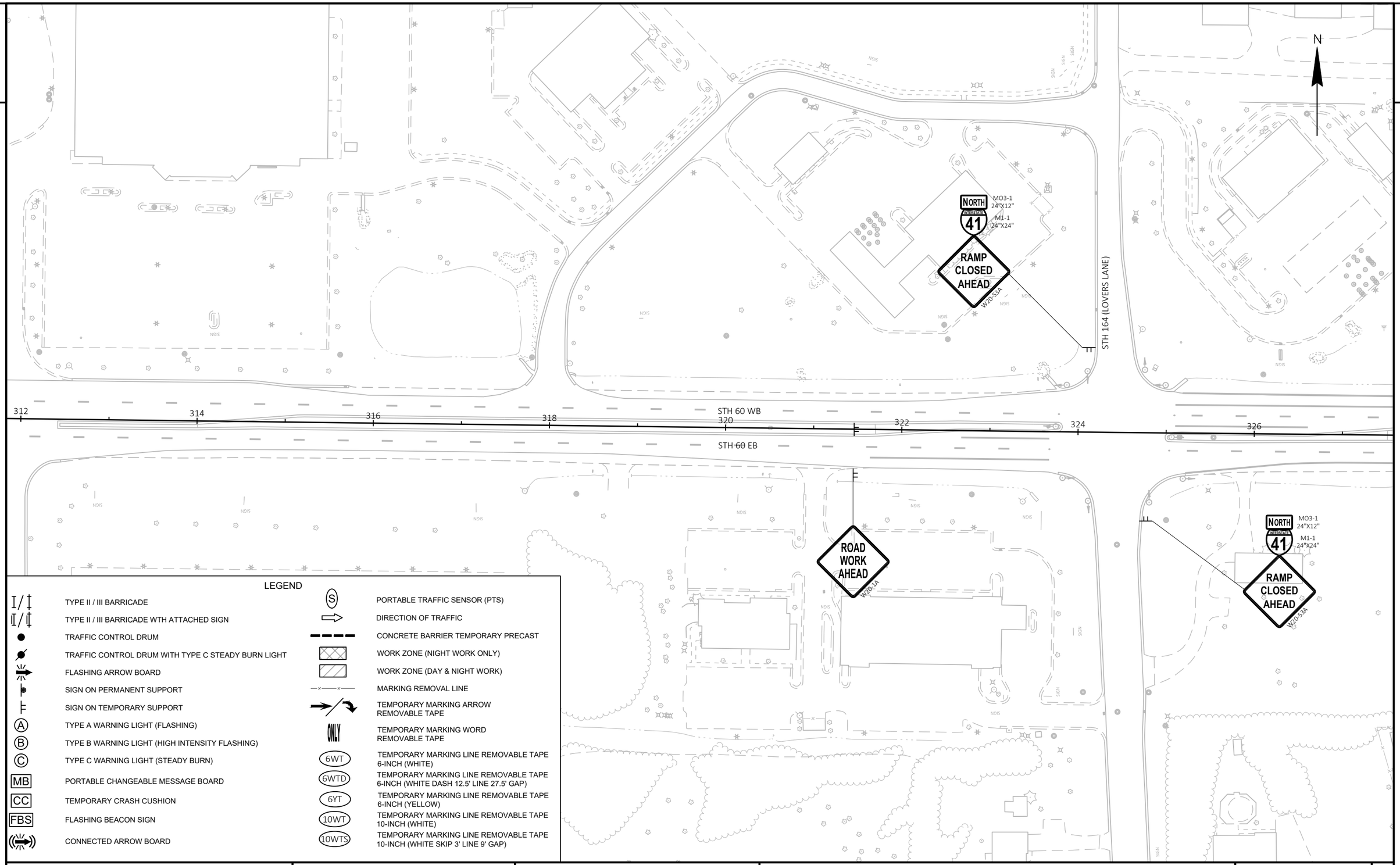
PROJECT NO: 2310-09-71	HWY: STH 60	COUNTY: WASHINGTON	TRAFFIC CONTROL - IH 41 STAGE 3N1 (NIGHT WORK ONLY)	SHEET 173	E

FILE NAME : K:\195704_STH 60 AND IH 41 INTERSECTION\3.0 DELIVERABLES\3.02 ROADWAY\AUTOCAD\SHEETS\026251-S2N1.DWG
LAYOUT NAME - 025026-tc

PLOT DATE : 7/15/2025 2:10 PM PLOT BY : OLSEN, CASSIE PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2



LEGEND

I/‡	TYPE II / III BARRICADE	(S)	PORTABLE TRAFFIC SENSOR (PTS)
I/‡	TYPE II / III BARRICADE WTH ATTACHED SIGN	⇨	DIRECTION OF TRAFFIC
●	TRAFFIC CONTROL DRUM	▬ ▬ ▬	CONCRETE BARRIER TEMPORARY PRECAST
●	TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT	▨	WORK ZONE (NIGHT WORK ONLY)
➡	FLASHING ARROW BOARD	▨	WORK ZONE (DAY & NIGHT WORK)
⊢	SIGN ON PERMANENT SUPPORT	—x—x—	MARKING REMOVAL LINE
⊢	SIGN ON TEMPORARY SUPPORT	➔	TEMPORARY MARKING ARROW REMOVABLE TAPE
(A)	TYPE A WARNING LIGHT (FLASHING)	ONLY	TEMPORARY MARKING WORD REMOVABLE TAPE
(B)	TYPE B WARNING LIGHT (HIGH INTENSITY FLASHING)		
(C)	TYPE C WARNING LIGHT (STEADY BURN)	6WT	TEMPORARY MARKING LINE REMOVABLE TAPE 6-INCH (WHITE)
MB	PORTABLE CHANGEABLE MESSAGE BOARD	6WTD	TEMPORARY MARKING LINE REMOVABLE TAPE 6-INCH (WHITE DASH 12.5' LINE 27.5' GAP)
CC	TEMPORARY CRASH CUSHION	6YT	TEMPORARY MARKING LINE REMOVABLE TAPE 6-INCH (YELLOW)
FBS	FLASHING BEACON SIGN	10WT	TEMPORARY MARKING LINE REMOVABLE TAPE 10-INCH (WHITE)
((➡))	CONNECTED ARROW BOARD	10WTS	TEMPORARY MARKING LINE REMOVABLE TAPE 10-INCH (WHITE SKIP 3' LINE 9' GAP)

PROJECT NO: 2310-09-71	HWY: STH 60	COUNTY: WASHINGTON	TRAFFIC CONTROL - STH 60 STAGE 3N2 (NIGHT WORK ONLY)	SHEET 174	E

FILE NAME : K:\195704_STH 60 AND IH 41 INTERSECTION\3.0 DELIVERABLES\3.02 ROADWAY\AUTOCAD\SHEETS\026271-S2N2.DWG
LAYOUT NAME - 01

PLOT DATE : 7/15/2025 2:11 PM PLOT BY : OLSEN, CASSIE PLOT NAME : PLOT SCALE : 1 IN:100 FT

2

2

N

328 330 332 334 336 338 340 342

STH 60 WB

STH 60 EB

NORTH
INTERSTATE
41

MO3-1
24"X12"

M1-1
24"X24"

RAMP
CLOSED
AHEAD

W20-53A

LEGEND

I/I	TYPE II / III BARRICADE	S	PORTABLE TRAFFIC SENSOR (PTS)
I/I	TYPE II / III BARRICADE WTH ATTACHED SIGN		DIRECTION OF TRAFFIC
●	TRAFFIC CONTROL DRUM		CONCRETE BARRIER TEMPORARY PRECAST
	TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT		WORK ZONE (NIGHT WORK ONLY)
	FLASHING ARROW BOARD		WORK ZONE (DAY & NIGHT WORK)
	SIGN ON PERMANENT SUPPORT		MARKING REMOVAL LINE
	SIGN ON TEMPORARY SUPPORT		TEMPORARY MARKING ARROW REMOVABLE TAPE
A	TYPE A WARNING LIGHT (FLASHING)	ONLY	TEMPORARY MARKING WORD REMOVABLE TAPE
B	TYPE B WARNING LIGHT (HIGH INTENSITY FLASHING)	6WT	TEMPORARY MARKING LINE REMOVABLE TAPE 6-INCH (WHITE)
C	TYPE C WARNING LIGHT (STEADY BURN)	6WTD	TEMPORARY MARKING LINE REMOVABLE TAPE 6-INCH (WHITE DASH 12.5' LINE 27.5' GAP)
MB	PORTABLE CHANGEABLE MESSAGE BOARD	6YT	TEMPORARY MARKING LINE REMOVABLE TAPE 6-INCH (YELLOW)
CC	TEMPORARY CRASH CUSHION	10WT	TEMPORARY MARKING LINE REMOVABLE TAPE 10-INCH (WHITE)
FBS	FLASHING BEACON SIGN	10WTS	TEMPORARY MARKING LINE REMOVABLE TAPE 10-INCH (WHITE SKIP 3' LINE 9' GAP)
	CONNECTED ARROW BOARD		

PROJECT NO: 2310-09-71	HWY: STH 60	COUNTY: WASHINGTON	TRAFFIC CONTROL - STH 60 STAGE 3N2 (NIGHT WORK ONLY)	SHEET 175	E

FILE NAME : K:\195704_STH 60 AND IH 41 INTERSECTION\3.0 DELIVERABLES\3.02 ROADWAY\AUTOCAD\SHEETS\026271-S2N2.DWG
LAYOUT NAME - 02

PLOT DATE : 7/15/2025 2:12 PM PLOT BY : OLSEN, CASSIE PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

LEGEND

TYPE II / III BARRICADE	PORTABLE TRAFFIC SENSOR (PTS)
TYPE II / III BARRICADE WTH ATTACHED SIGN	DIRECTION OF TRAFFIC
TRAFFIC CONTROL DRUM	CONCRETE BARRIER TEMPORARY PRECAST
TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT	WORK ZONE (NIGHT WORK ONLY)
FLASHING ARROW BOARD	WORK ZONE (DAY & NIGHT WORK)
SIGN ON PERMANENT SUPPORT	MARKING REMOVAL LINE
SIGN ON TEMPORARY SUPPORT	TEMPORARY MARKING ARROW REMOVABLE TAPE
TYPE A WARNING LIGHT (FLASHING)	TEMPORARY MARKING WORD REMOVABLE TAPE
TYPE B WARNING LIGHT (HIGH INTENSITY FLASHING)	6WT — TEMPORARY MARKING LINE REMOVABLE TAPE 6-INCH (WHITE)
TYPE C WARNING LIGHT (STEADY BURN)	6WTD — TEMPORARY MARKING LINE REMOVABLE TAPE 6-INCH (WHITE DASH 12.5' LINE 27.5' GAP)
MB — PORTABLE CHANGEABLE MESSAGE BOARD	6YT — TEMPORARY MARKING LINE REMOVABLE TAPE 6-INCH (YELLOW)
CC — TEMPORARY CRASH CUSHION	10WT — TEMPORARY MARKING LINE REMOVABLE TAPE 10-INCH (WHITE)
FBS — FLASHING BEACON SIGN	10WTS — TEMPORARY MARKING LINE REMOVABLE TAPE 10-INCH (WHITE SKIP 3' LINE 9' GAP)
CONNECTED ARROW BOARD	

N

RAMP CLOSED

FRAME 1	FRAME 2
RAMP TO CLOSE	XXDAY XX TO XX

MB

FRAME 1	FRAME 2
RAMP TO CLOSE	XXDAY XX TO XX

MB

RAMP CLOSED

FRAME 1	FRAME 2
RAMP TO CLOSE	XXDAY XX TO XX

RAMP D (NB OFF-RAMP)

RAMP B (SB OFF-RAMP)

RAMP A (SB ON-RAMP)

RAMP C (NB ON-RAMP)

IH 41 NB

IH 41 SB

STH 60 WB

STH 60 EB

R11-2L
48" X 30"
LANE CLOSED
TYPE III BARRICADE

2

PROJECT NO: 2310-09-71	HWY: STH 60	COUNTY: WASHINGTON	TRAFFIC CONTROL - STH 60 STAGE 3N2 (NIGHT WORK ONLY)	SHEET 176	E

FILE NAME : K:\195704_STH 60 AND IH 41 INTERSECTION\3.0 DELIVERABLES\3.02 ROADWAY\AUTOCAD\SHEETS\026271-S2N2.DWG
LAYOUT NAME - 03

PLOT DATE : 7/15/2025 2:12 PM PLOT BY : OLSEN, CASSIE PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

LEGEND

- TYPE II / III BARRICADE
- TYPE II / III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- FLASHING ARROW BOARD
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- (A) TYPE A WARNING LIGHT (FLASHING)
- (B) TYPE B WARNING LIGHT (HIGH INTENSITY FLASHING)
- (C) TYPE C WARNING LIGHT (STEADY BURN)
- MB PORTABLE CHANGEABLE MESSAGE BOARD
- CC TEMPORARY CRASH CUSHION
- FBS FLASHING BEACON SIGN
- CONNECTED ARROW BOARD
- (S) PORTABLE TRAFFIC SENSOR (PTS)
- DIRECTION OF TRAFFIC
- CONCRETE BARRIER TEMPORARY PRECAST
- WORK ZONE (NIGHT WORK ONLY)
- WORK ZONE (DAY & NIGHT WORK)
- MARKING REMOVAL LINE
- TEMPORARY MARKING ARROW REMOVABLE TAPE
- ONLY TEMPORARY MARKING WORD REMOVABLE TAPE
- 6WT TEMPORARY MARKING LINE REMOVABLE TAPE 6-INCH (WHITE)
- 6WTD TEMPORARY MARKING LINE REMOVABLE TAPE 6-INCH (WHITE DASH 12.5' LINE 27.5' GAP)
- 6YT TEMPORARY MARKING LINE REMOVABLE TAPE 6-INCH (YELLOW)
- 10WT TEMPORARY MARKING LINE REMOVABLE TAPE 10-INCH (WHITE)
- 10WTS TEMPORARY MARKING LINE REMOVABLE TAPE 10-INCH (WHITE SKIP 3' LINE 9' GAP)

N

STH 60 WB

STH 60 EB

358 360 362 364 366 368 370 372

274'E'

272'E'

RAMP E (NB OFF-RAMP)

END ROAD WORK
G20-2A
48"X24"

PROJECT NO: 2310-09-71	HWY: STH 60	COUNTY: WASHINGTON	TRAFFIC CONTROL - STH 60 STAGE 3N2 (NIGHT WORK ONLY)	SHEET 177	E

FILE NAME : K:\195704_STH 60 AND IH 41 INTERSECTION\3.0 DELIVERABLES\3.02 ROADWAY\AUTOCAD\SHEETS\026271-S2N2.DWG
LAYOUT NAME - 04

PLOT DATE : 7/15/2025 2:13 PM PLOT BY : OLSEN, CASSIE PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

N

AMERICAN EAGLE DR

CTH C (HILLSIDE RD)

STH 60 WB

STH 60 EB

370 372 374 376 378 380 382 384

R11-2L
48" X 30"
LANE CLOSED
TYPE III BARRICADE

M4-9R
30"X24"
DETOUR
TYPE III BARRICADE

R11-2
48" X 30"
ROAD CLOSED
TYPE III BARRICADE

OUTSIDE SINGLE LANE CLOSURE PER
SDD 15D12 TRAFFIC CONTROL LANE CLOSURE

ROAD CLOSED 500 FT
W20-3D

ROAD CLOSED AHEAD
W20-3A

1600'

25' TYP

LEGEND

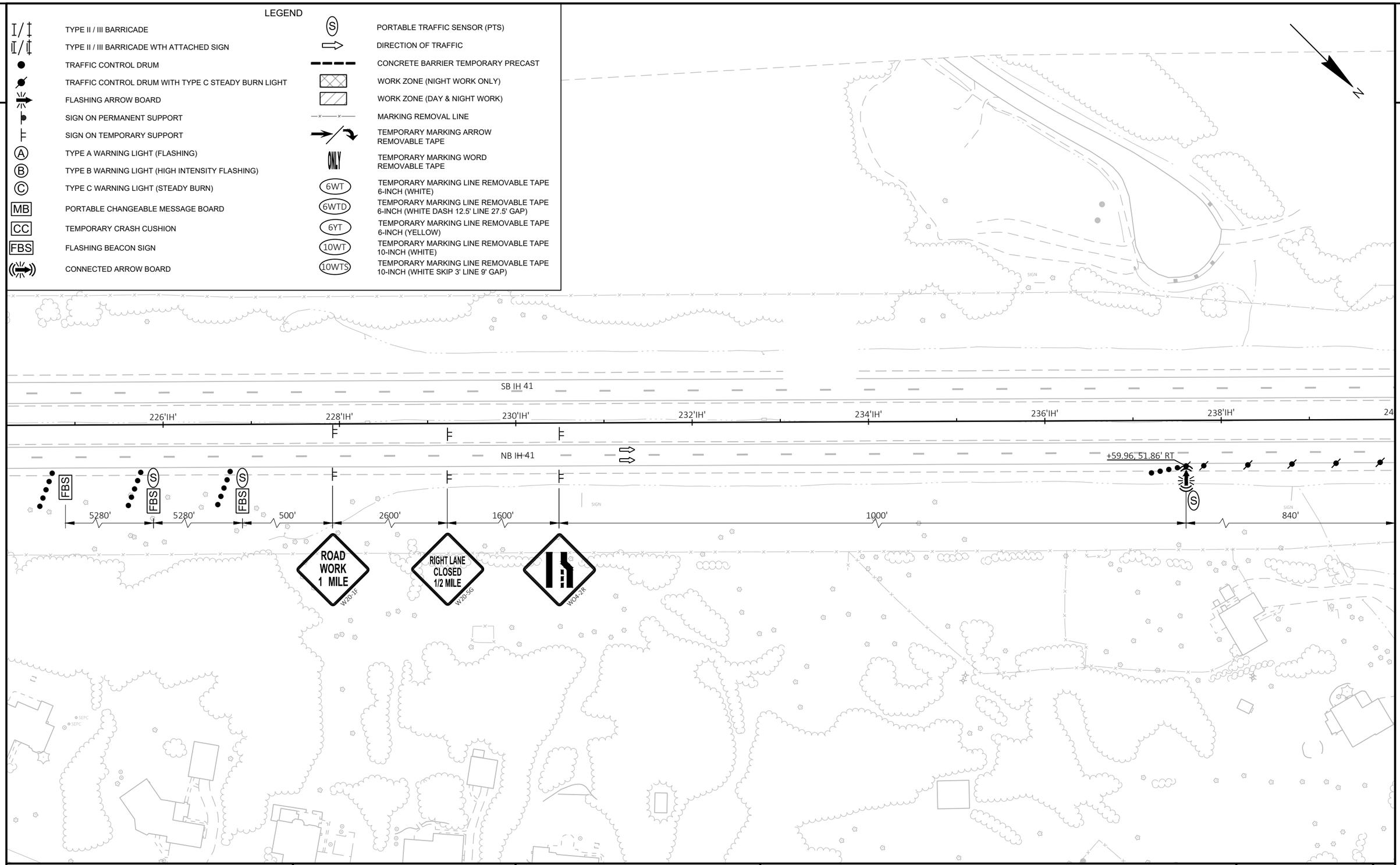
TYPE II / III BARRICADE	PORTABLE TRAFFIC SENSOR (PTS)
TYPE II / III BARRICADE WTH ATTACHED SIGN	DIRECTION OF TRAFFIC
TRAFFIC CONTROL DRUM	CONCRETE BARRIER TEMPORARY PRECAST
TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT	WORK ZONE (NIGHT WORK ONLY)
FLASHING ARROW BOARD	WORK ZONE (DAY & NIGHT WORK)
SIGN ON PERMANENT SUPPORT	MARKING REMOVAL LINE
SIGN ON TEMPORARY SUPPORT	TEMPORARY MARKING ARROW REMOVABLE TAPE
TYPE A WARNING LIGHT (FLASHING)	TEMPORARY MARKING WORD REMOVABLE TAPE
TYPE B WARNING LIGHT (HIGH INTENSITY FLASHING)	6WT — TEMPORARY MARKING LINE REMOVABLE TAPE 6-INCH (WHITE)
TYPE C WARNING LIGHT (STEADY BURN)	6WTD — TEMPORARY MARKING LINE REMOVABLE TAPE 6-INCH (WHITE DASH 12.5' LINE 27.5' GAP)
MB — PORTABLE CHANGEABLE MESSAGE BOARD	6YT — TEMPORARY MARKING LINE REMOVABLE TAPE 6-INCH (YELLOW)
CC — TEMPORARY CRASH CUSHION	10WT — TEMPORARY MARKING LINE REMOVABLE TAPE 10-INCH (WHITE)
FBS — FLASHING BEACON SIGN	10WTS — TEMPORARY MARKING LINE REMOVABLE TAPE 10-INCH (WHITE SKIP 3' LINE 9' GAP)
CONNECTED ARROW BOARD	

PROJECT NO: 2310-09-71	HWY: STH 60	COUNTY: WASHINGTON	TRAFFIC CONTROL - STH 60 STAGE 3N2 (NIGHT WORK ONLY)	SHEET 178	E

2

LEGEND

- TYPE II / III BARRICADE
- TYPE II / III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- FLASHING ARROW BOARD
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- (A) TYPE A WARNING LIGHT (FLASHING)
- (B) TYPE B WARNING LIGHT (HIGH INTENSITY FLASHING)
- (C) TYPE C WARNING LIGHT (STEADY BURN)
- MB PORTABLE CHANGEABLE MESSAGE BOARD
- CC TEMPORARY CRASH CUSHION
- FBS FLASHING BEACON SIGN
- CONNECTED ARROW BOARD
- (S) PORTABLE TRAFFIC SENSOR (PTS)
- DIRECTION OF TRAFFIC
- CONCRETE BARRIER TEMPORARY PRECAST
- WORK ZONE (NIGHT WORK ONLY)
- WORK ZONE (DAY & NIGHT WORK)
- MARKING REMOVAL LINE
- TEMPORARY MARKING ARROW REMOVABLE TAPE
- ONLY TEMPORARY MARKING WORD REMOVABLE TAPE
- 6WT TEMPORARY MARKING LINE REMOVABLE TAPE 6-INCH (WHITE)
- 6WTD TEMPORARY MARKING LINE REMOVABLE TAPE 6-INCH (WHITE DASH 12.5' LINE 27.5' GAP)
- 6YT TEMPORARY MARKING LINE REMOVABLE TAPE 6-INCH (YELLOW)
- 10WT TEMPORARY MARKING LINE REMOVABLE TAPE 10-INCH (WHITE)
- 10WTS TEMPORARY MARKING LINE REMOVABLE TAPE 10-INCH (WHITE SKIP 3' LINE 9' GAP)



2

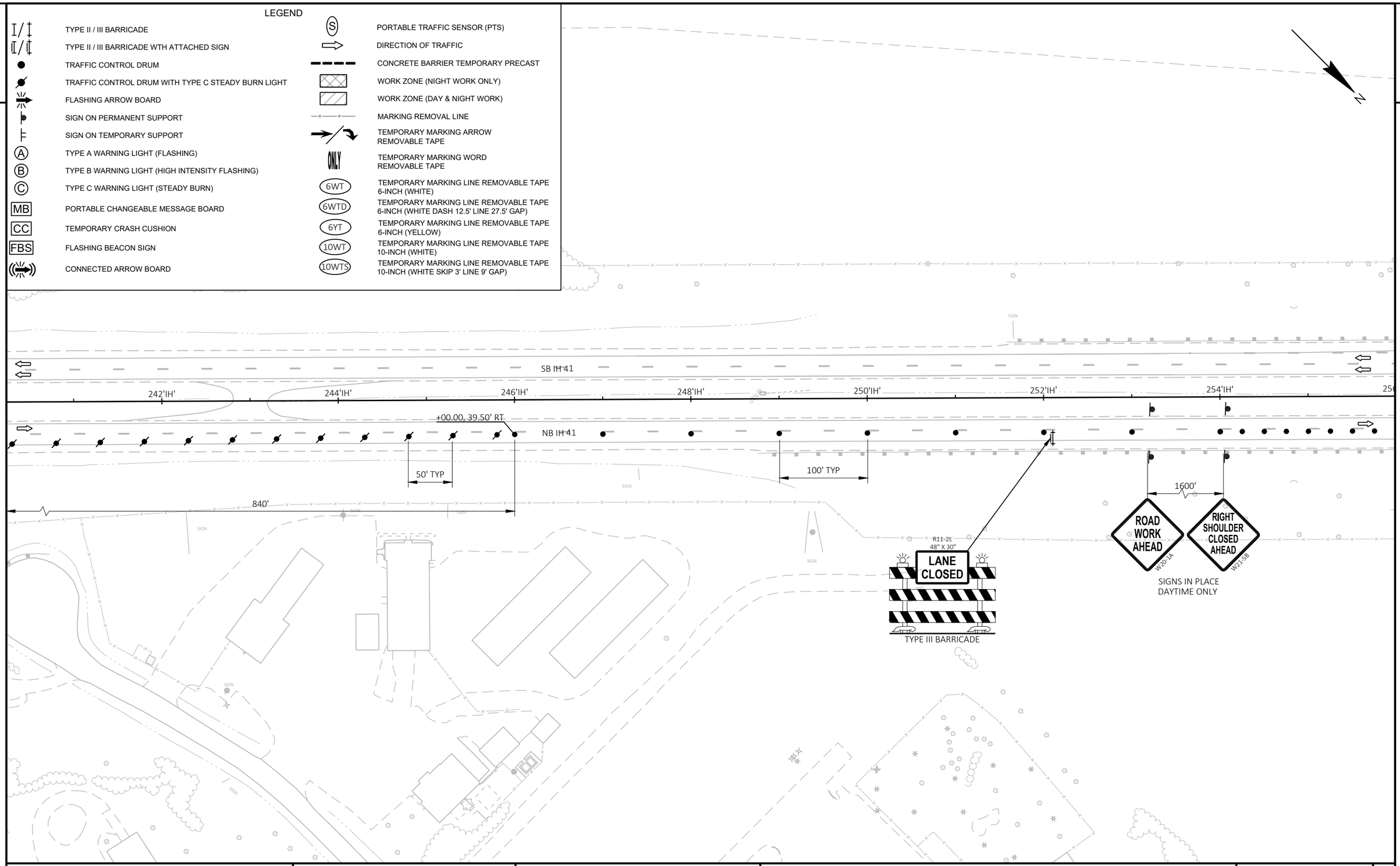
PROJECT NO: 2310-09-71	HWY: STH 60	COUNTY: WASHINGTON	TRAFFIC CONTROL - IH 41 STAGE 3N2 (NIGHT WORK ONLY)	SHEET 179	E

FILE NAME : K:\195704_STH 60 AND IH 41 INTERSECTION\3.0 DELIVERABLES\3.02 ROADWAY\AUTOCAD\SHEETS\026271-S2N2.DWG
LAYOUT NAME - 11
PLOT DATE : 7/15/2025 2:15 PM
PLOT BY : OLSEN, CASSIE
PLOT NAME :
PLOT SCALE :
WISDOT/CADDS SHEET 42

2

LEGEND

TYPE II / III BARRICADE	PORTABLE TRAFFIC SENSOR (PTS)
TYPE II / III BARRICADE WTH ATTACHED SIGN	DIRECTION OF TRAFFIC
TRAFFIC CONTROL DRUM	CONCRETE BARRIER TEMPORARY PRECAST
TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT	WORK ZONE (NIGHT WORK ONLY)
FLASHING ARROW BOARD	WORK ZONE (DAY & NIGHT WORK)
SIGN ON PERMANENT SUPPORT	MARKING REMOVAL LINE
SIGN ON TEMPORARY SUPPORT	TEMPORARY MARKING ARROW REMOVABLE TAPE
TYPE A WARNING LIGHT (FLASHING)	TEMPORARY MARKING WORD REMOVABLE TAPE
TYPE B WARNING LIGHT (HIGH INTENSITY FLASHING)	
TYPE C WARNING LIGHT (STEADY BURN)	6WT — TEMPORARY MARKING LINE REMOVABLE TAPE 6-INCH (WHITE)
MB — PORTABLE CHANGEABLE MESSAGE BOARD	6WTD — TEMPORARY MARKING LINE REMOVABLE TAPE 6-INCH (WHITE DASH 12.5' LINE 27.5' GAP)
CC — TEMPORARY CRASH CUSHION	6YT — TEMPORARY MARKING LINE REMOVABLE TAPE 6-INCH (YELLOW)
FBS — FLASHING BEACON SIGN	10WT — TEMPORARY MARKING LINE REMOVABLE TAPE 10-INCH (WHITE)
CONNECTED ARROW BOARD	10WTS — TEMPORARY MARKING LINE REMOVABLE TAPE 10-INCH (WHITE SKIP 3' LINE 9' GAP)



2

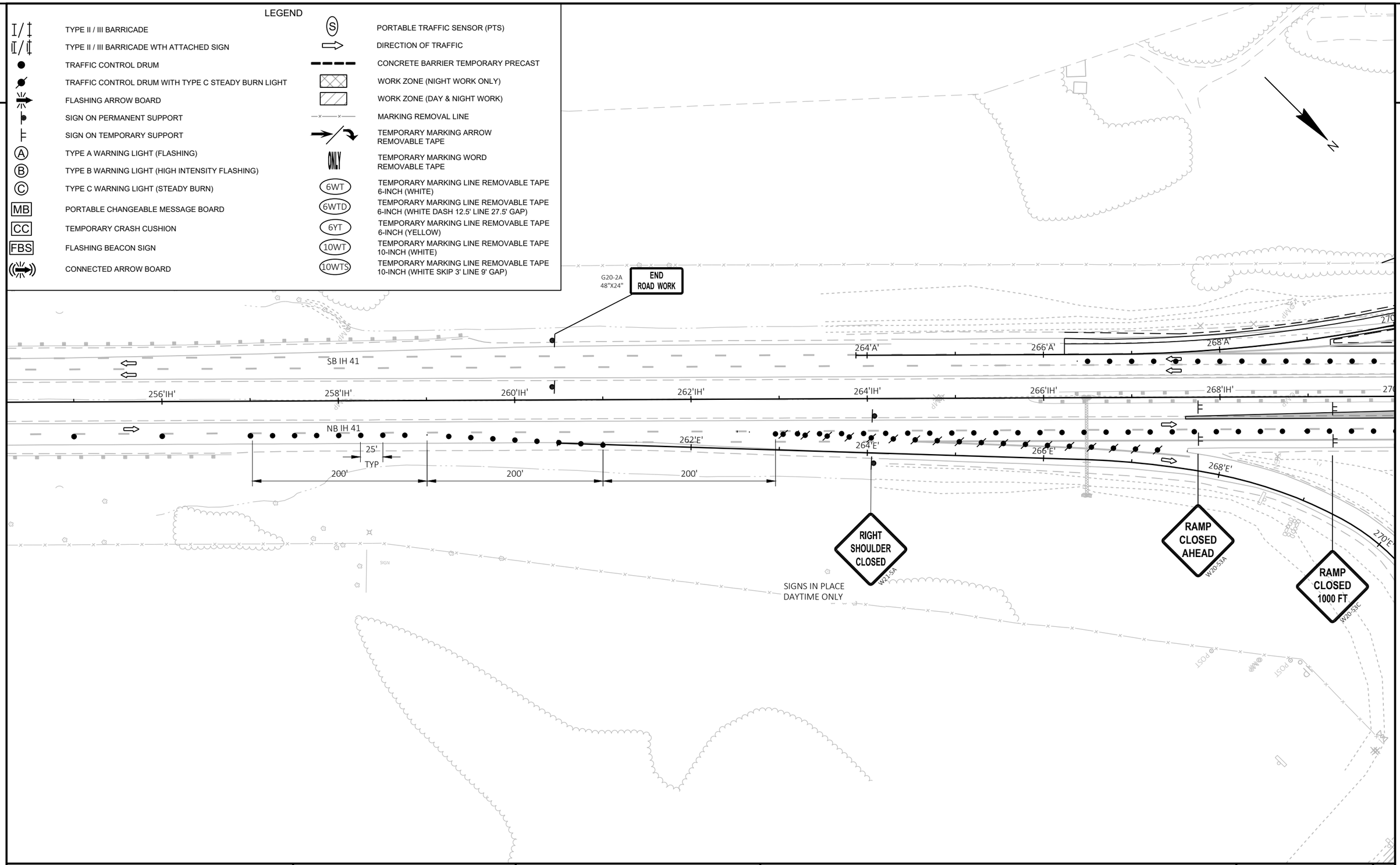
PROJECT NO: 2310-09-71	HWY: STH 60	COUNTY: WASHINGTON	TRAFFIC CONTROL - IH 41 STAGE 3N2 (NIGHT WORK ONLY)	SHEET 180	E

FILE NAME : K:\195704_STH 60 AND IH 41 INTERSECTION\3.0 DELIVERABLES\3.02 ROADWAY\AUTOCAD\SHEETS\026271-S2N2.DWG
LAYOUT NAME - 025026-tc
PLOT DATE : 7/15/2025 2:16 PM
PLOT BY : OLSEN, CASSIE
PLOT NAME :
PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 42

2

LEGEND

- TYPE II / III BARRICADE
- TYPE II / III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- FLASHING ARROW BOARD
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- (A) TYPE A WARNING LIGHT (FLASHING)
- (B) TYPE B WARNING LIGHT (HIGH INTENSITY FLASHING)
- (C) TYPE C WARNING LIGHT (STEADY BURN)
- MB PORTABLE CHANGEABLE MESSAGE BOARD
- CC TEMPORARY CRASH CUSHION
- FBS FLASHING BEACON SIGN
- CONNECTED ARROW BOARD
- (S) PORTABLE TRAFFIC SENSOR (PTS)
- DIRECTION OF TRAFFIC
- CONCRETE BARRIER TEMPORARY PRECAST
- WORK ZONE (NIGHT WORK ONLY)
- WORK ZONE (DAY & NIGHT WORK)
- MARKING REMOVAL LINE
- TEMPORARY MARKING ARROW REMOVABLE TAPE
- ONLY TEMPORARY MARKING WORD REMOVABLE TAPE
- 6WT TEMPORARY MARKING LINE REMOVABLE TAPE 6-INCH (WHITE)
- 6WTD TEMPORARY MARKING LINE REMOVABLE TAPE 6-INCH (WHITE DASH 12.5' LINE 27.5' GAP)
- 6YT TEMPORARY MARKING LINE REMOVABLE TAPE 6-INCH (YELLOW)
- 10WT TEMPORARY MARKING LINE REMOVABLE TAPE 10-INCH (WHITE)
- 10WTS TEMPORARY MARKING LINE REMOVABLE TAPE 10-INCH (WHITE SKIP 3' LINE 9' GAP)



PROJECT NO: 2310-09-71	HWY: STH 60	COUNTY: WASHINGTON	TRAFFIC CONTROL - IH 41 STAGE 3N2 (NIGHT WORK ONLY)	SHEET 181	E

FILE NAME : K:\195704_STH 60 AND IH 41 INTERSECTION\3.0 DELIVERABLES\3.02 ROADWAY\AUTOCAD\SHEETS\026271-S2N2.DWG
LAYOUT NAME - 025026-tc

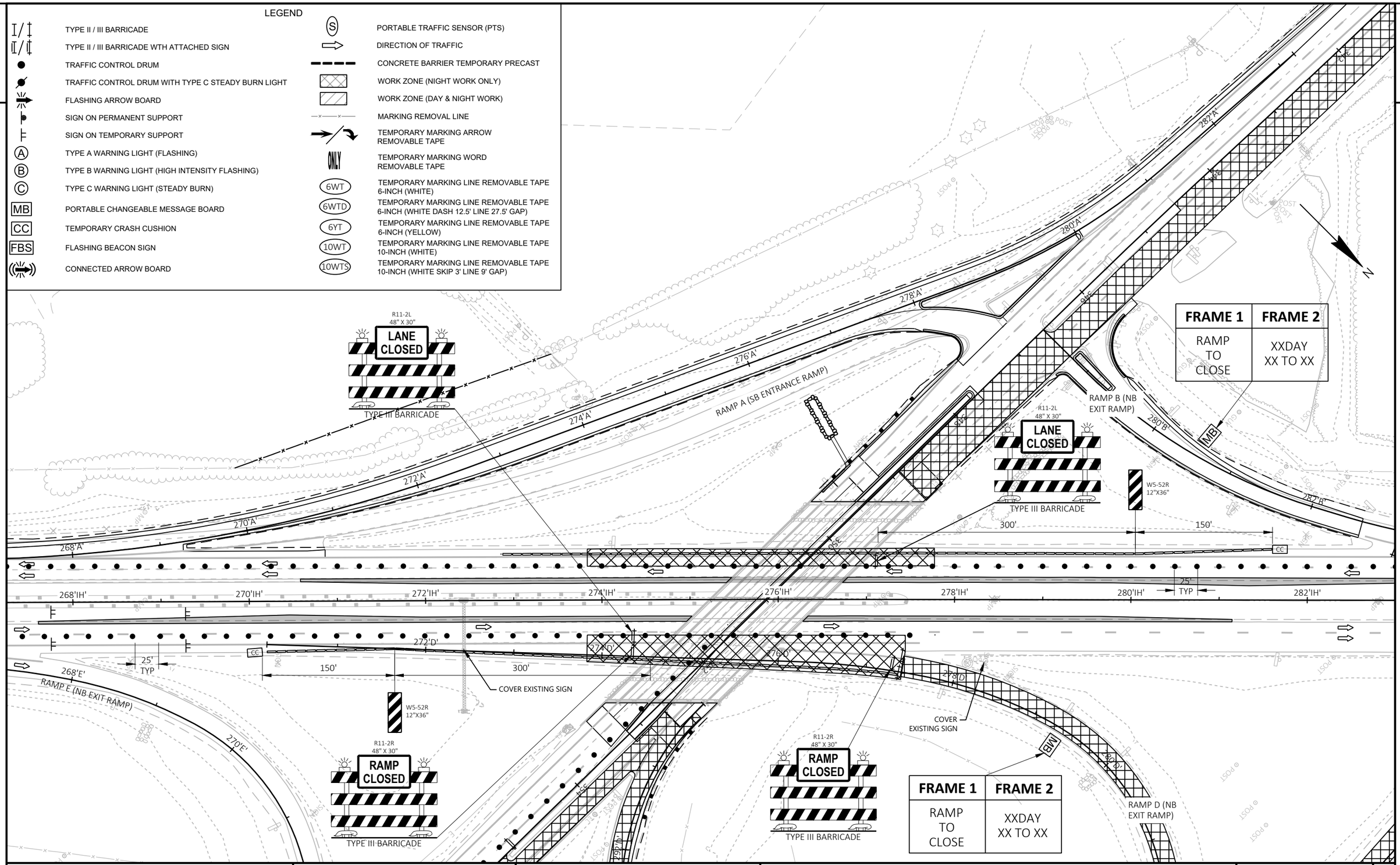
PLOT DATE : 10/18/2025 5:15 PM PLOT BY : OLSEN, CASSIE PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

LEGEND

I/‡	TYPE II / III BARRICADE	(S)	PORTABLE TRAFFIC SENSOR (PTS)
I/‡	TYPE II / III BARRICADE WTH ATTACHED SIGN	⇨	DIRECTION OF TRAFFIC
●	TRAFFIC CONTROL DRUM	▬ ▬ ▬	CONCRETE BARRIER TEMPORARY PRECAST
●	TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT	▨	WORK ZONE (NIGHT WORK ONLY)
⇨	FLASHING ARROW BOARD	▨	WORK ZONE (DAY & NIGHT WORK)
‡	SIGN ON PERMANENT SUPPORT	—×—×—	MARKING REMOVAL LINE
‡	SIGN ON TEMPORARY SUPPORT	⇨	TEMPORARY MARKING ARROW REMOVABLE TAPE
(A)	TYPE A WARNING LIGHT (FLASHING)	ONLY	TEMPORARY MARKING WORD REMOVABLE TAPE
(B)	TYPE B WARNING LIGHT (HIGH INTENSITY FLASHING)	6WT	TEMPORARY MARKING LINE REMOVABLE TAPE 6-INCH (WHITE)
(C)	TYPE C WARNING LIGHT (STEADY BURN)	6WTD	TEMPORARY MARKING LINE REMOVABLE TAPE 6-INCH (WHITE DASH 12.5' LINE 27.5' GAP)
MB	PORTABLE CHANGEABLE MESSAGE BOARD	6YT	TEMPORARY MARKING LINE REMOVABLE TAPE 6-INCH (YELLOW)
CC	TEMPORARY CRASH CUSHION	10WT	TEMPORARY MARKING LINE REMOVABLE TAPE 10-INCH (WHITE)
FBS	FLASHING BEACON SIGN	10WTS	TEMPORARY MARKING LINE REMOVABLE TAPE 10-INCH (WHITE SKIP 3' LINE 9' GAP)
⇨	CONNECTED ARROW BOARD		



PROJECT NO: 2310-09-71	HWY: STH 60	COUNTY: WASHINGTON	TRAFFIC CONTROL - IH 41 STAGE 3N2 (NIGHT WORK ONLY)	SHEET 182	E

FILE NAME : K:\195704_STH 60 AND IH 41 INTERSECTION\3.0 DELIVERABLES\3.02 ROADWAY\AUTOCAD\SHEETS\026271-S2N2.DWG
LAYOUT NAME - 025026-tc
PLOT DATE : 7/16/2025 11:14 AM PLOT BY : OLSEN, CASSIE PLOT NAME : PLOT SCALE : 1 IN:100 FT

2

LEGEND

I/‡	TYPE II / III BARRICADE	S	PORTABLE TRAFFIC SENSOR (PTS)
I/‡	TYPE II / III BARRICADE WTH ATTACHED SIGN	⇨	DIRECTION OF TRAFFIC
●	TRAFFIC CONTROL DRUM	▬ ▬ ▬	CONCRETE BARRIER TEMPORARY PRECAST
●	TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT	▨	WORK ZONE (NIGHT WORK ONLY)
⇨	FLASHING ARROW BOARD	▨	WORK ZONE (DAY & NIGHT WORK)
●	SIGN ON PERMANENT SUPPORT	—×—×—	MARKING REMOVAL LINE
‡	SIGN ON TEMPORARY SUPPORT	⇨	TEMPORARY MARKING ARROW REMOVABLE TAPE
A	TYPE A WARNING LIGHT (FLASHING)	ONLY	TEMPORARY MARKING WORD REMOVABLE TAPE
B	TYPE B WARNING LIGHT (HIGH INTENSITY FLASHING)	6WT	TEMPORARY MARKING LINE REMOVABLE TAPE 6-INCH (WHITE)
C	TYPE C WARNING LIGHT (STEADY BURN)	6WTD	TEMPORARY MARKING LINE REMOVABLE TAPE 6-INCH (WHITE DASH 12.5' LINE 27.5' GAP)
MB	PORTABLE CHANGEABLE MESSAGE BOARD	6YT	TEMPORARY MARKING LINE REMOVABLE TAPE 6-INCH (YELLOW)
CC	TEMPORARY CRASH CUSHION	10WT	TEMPORARY MARKING LINE REMOVABLE TAPE 10-INCH (WHITE)
FBS	FLASHING BEACON SIGN	10WTS	TEMPORARY MARKING LINE REMOVABLE TAPE 10-INCH (WHITE SKIP 3' LINE 9' GAP)
((⇨))	CONNECTED ARROW BOARD		

R11-2R
48" X 30"
RAMP CLOSED
TYPE III BARRICADE

R11-2R
48" X 30"
RAMP CLOSED
TYPE III BARRICADE

R11-2L
48" X 30"
LANE CLOSED
TYPE III BARRICADE

RIGHT SHOULDER CLOSED
W21-5A

SIGNS IN PLACE
DAYTIME ONLY

RIGHT SHOULDER CLOSED AHEAD
W21-5B

ROAD WORK AHEAD
W20-1A

1600'

COVER EXISTING SIGN

100' TYP

RAMP B (SB EXIT RAMP)

284'B'

SB IH 41

284'IH' 286'IH' 288'IH' 290'IH' 292'IH' 294'IH' 296'IH'

NB IH 41

288'C' 290'C' 292'C' 294'C' 296'C' 298'C'

RAMP C (NB ENTRANCE RAMP)

END ROAD WORK
G20-2A
48"X24"

PROJECT NO: 2310-09-71	HWY: STH 60	COUNTY: WASHINGTON	TRAFFIC CONTROL - IH 41 STAGE 3N2 (NIGHT WORK ONLY)	SHEET 183	E

FILE NAME : K:\195704_STH 60 AND IH 41 INTERSECTION\3.0 DELIVERABLES\3.02 ROADWAY\AUTOCAD\SHEETS\026271-S2N2.DWG
LAYOUT NAME - 025026-tc

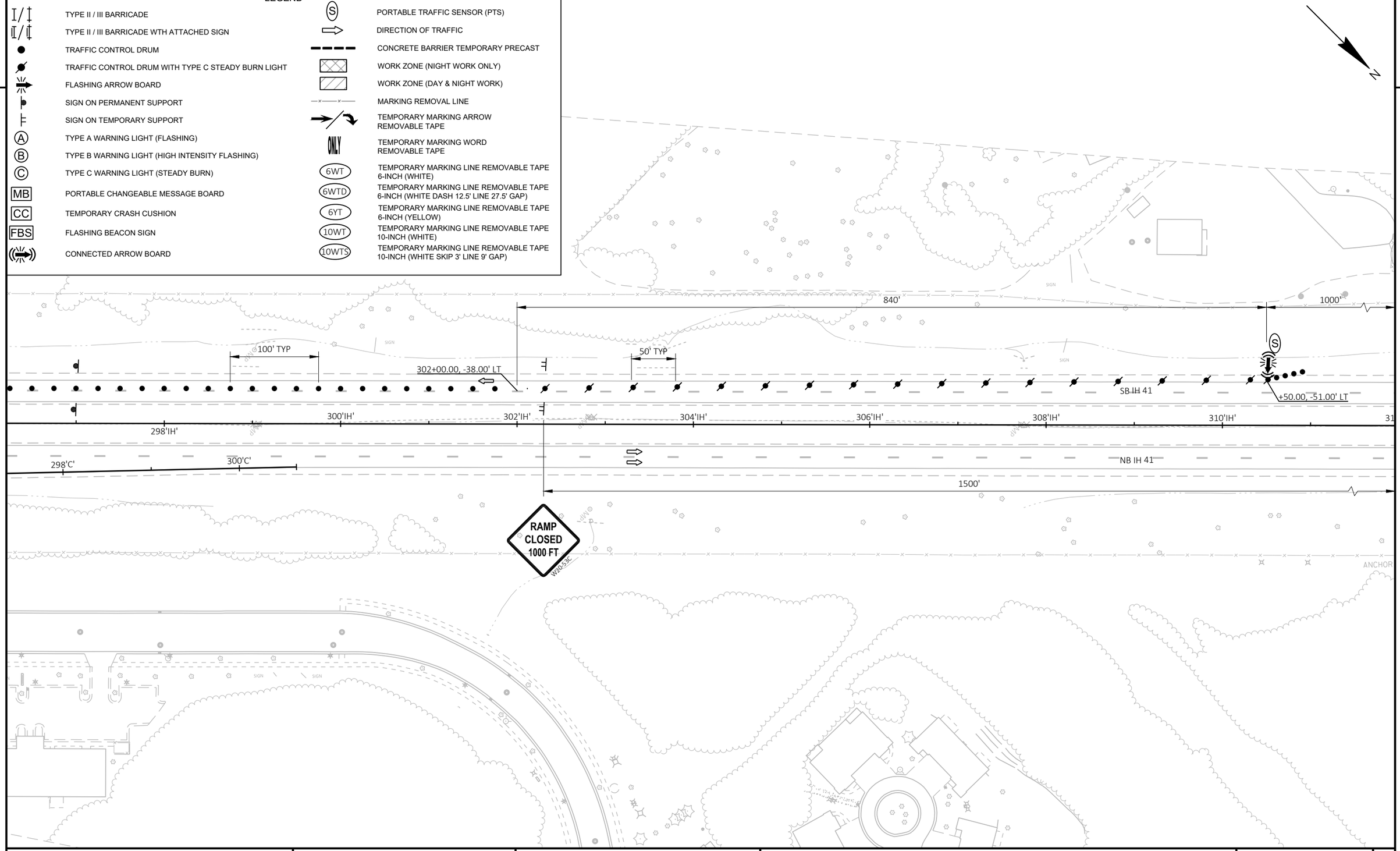
PLOT DATE : 7/16/2025 10:56 AM PLOT BY : OLSEN, CASSIE PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

LEGEND

- TYPE II / III BARRICADE
- TYPE II / III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- FLASHING ARROW BOARD
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- (A) TYPE A WARNING LIGHT (FLASHING)
- (B) TYPE B WARNING LIGHT (HIGH INTENSITY FLASHING)
- (C) TYPE C WARNING LIGHT (STEADY BURN)
- MB PORTABLE CHANGEABLE MESSAGE BOARD
- CC TEMPORARY CRASH CUSHION
- FBS FLASHING BEACON SIGN
- CONNECTED ARROW BOARD
- (S) PORTABLE TRAFFIC SENSOR (PTS)
- DIRECTION OF TRAFFIC
- CONCRETE BARRIER TEMPORARY PRECAST
- WORK ZONE (NIGHT WORK ONLY)
- WORK ZONE (DAY & NIGHT WORK)
- MARKING REMOVAL LINE
- TEMPORARY MARKING ARROW REMOVABLE TAPE
- ONLY TEMPORARY MARKING WORD REMOVABLE TAPE
- 6WT TEMPORARY MARKING LINE REMOVABLE TAPE 6-INCH (WHITE)
- 6WTD TEMPORARY MARKING LINE REMOVABLE TAPE 6-INCH (WHITE DASH 12.5' LINE 27.5' GAP)
- 6YT TEMPORARY MARKING LINE REMOVABLE TAPE 6-INCH (YELLOW)
- 10WT TEMPORARY MARKING LINE REMOVABLE TAPE 10-INCH (WHITE)
- 10WTS TEMPORARY MARKING LINE REMOVABLE TAPE 10-INCH (WHITE SKIP 3' LINE 9' GAP)



PROJECT NO: 2310-09-71	HWY: STH 60	COUNTY: WASHINGTON	TRAFFIC CONTROL - IH 41 STAGE 3N2 (NIGHT WORK ONLY)	SHEET 184	E

FILE NAME : K:\195704_STH 60 AND IH 41 INTERSECTION\3.0 DELIVERABLES\3.02 ROADWAY\AUTOCAD\SHEETS\026271-S2N2.DWG
LAYOUT NAME - 025026-tc

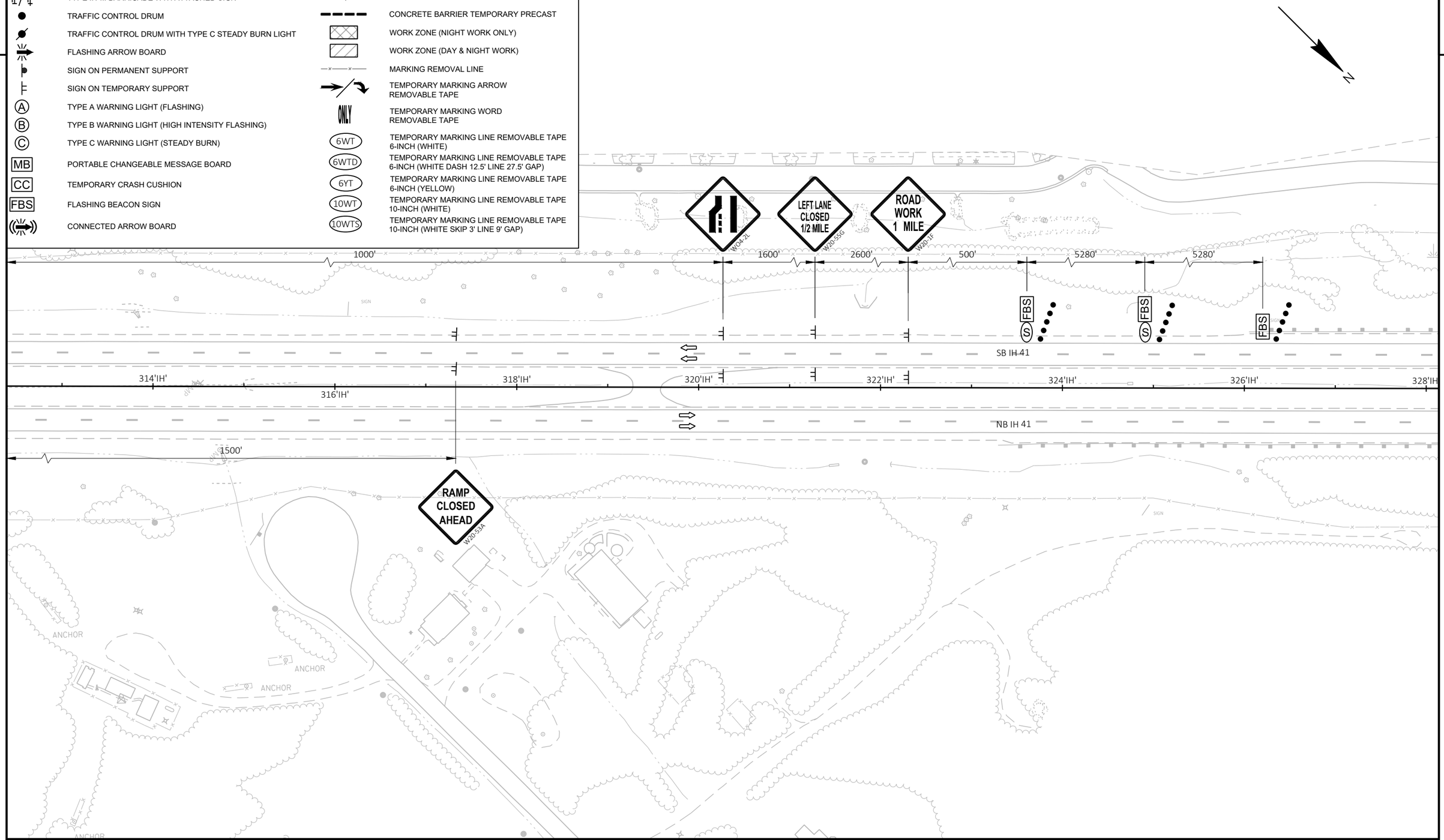
PLOT DATE : 7/15/2025 2:19 PM PLOT BY : OLSEN, CASSIE PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

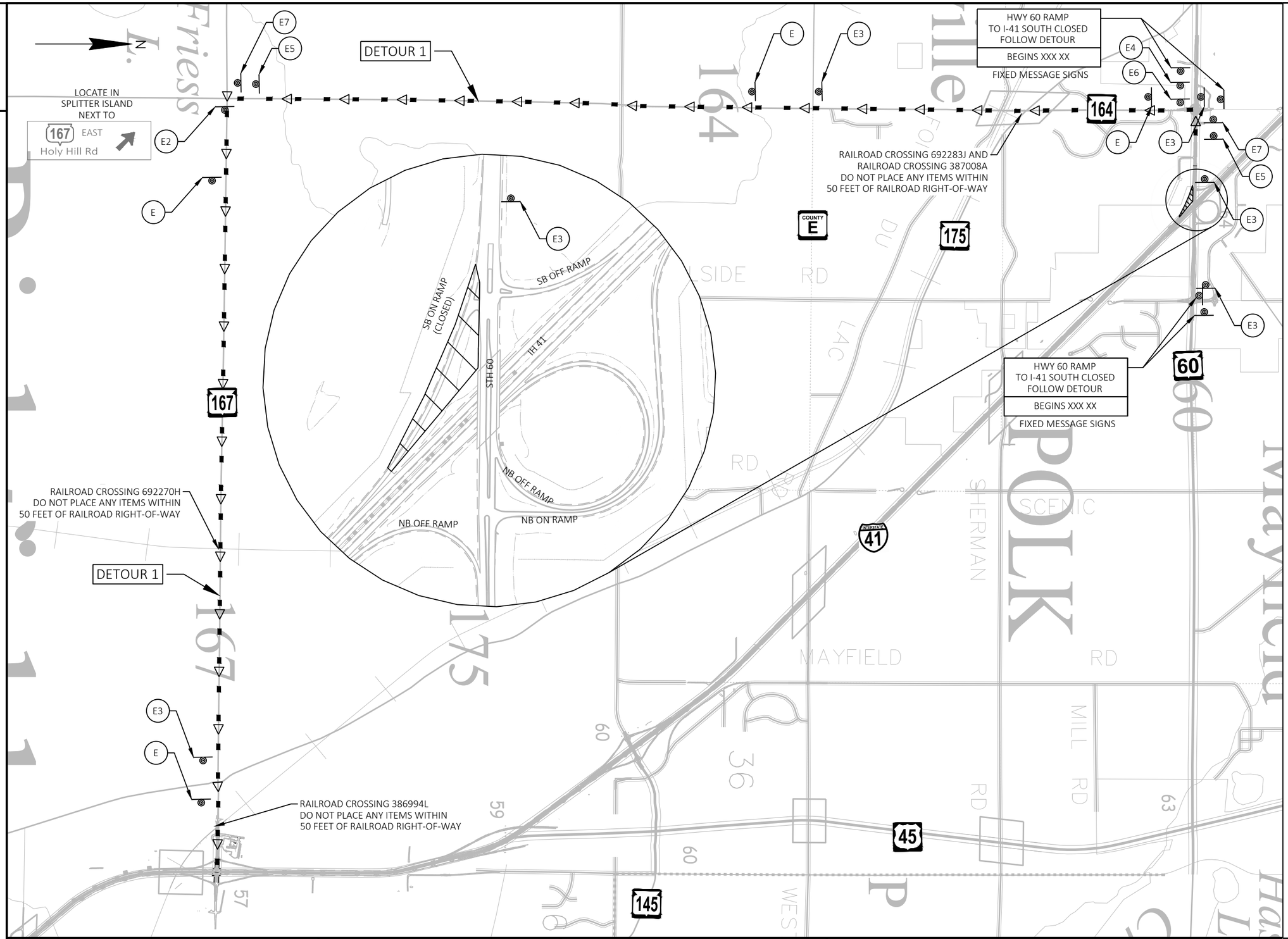
LEGEND

TYPE II / III BARRICADE	PORTABLE TRAFFIC SENSOR (PTS)
TYPE II / III BARRICADE WTH ATTACHED SIGN	DIRECTION OF TRAFFIC
TRAFFIC CONTROL DRUM	CONCRETE BARRIER TEMPORARY PRECAST
TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT	WORK ZONE (NIGHT WORK ONLY)
FLASHING ARROW BOARD	WORK ZONE (DAY & NIGHT WORK)
SIGN ON PERMANENT SUPPORT	MARKING REMOVAL LINE
SIGN ON TEMPORARY SUPPORT	TEMPORARY MARKING ARROW REMOVABLE TAPE
TYPE A WARNING LIGHT (FLASHING)	TEMPORARY MARKING WORD REMOVABLE TAPE
TYPE B WARNING LIGHT (HIGH INTENSITY FLASHING)	6WT — TEMPORARY MARKING LINE REMOVABLE TAPE 6-INCH (WHITE)
TYPE C WARNING LIGHT (STEADY BURN)	6WTD — TEMPORARY MARKING LINE REMOVABLE TAPE 6-INCH (WHITE DASH 12.5' LINE 27.5' GAP)
MB — PORTABLE CHANGEABLE MESSAGE BOARD	6YT — TEMPORARY MARKING LINE REMOVABLE TAPE 6-INCH (YELLOW)
CC — TEMPORARY CRASH CUSHION	10WT — TEMPORARY MARKING LINE REMOVABLE TAPE 10-INCH (WHITE)
FBS — FLASHING BEACON SIGN	10WTS — TEMPORARY MARKING LINE REMOVABLE TAPE 10-INCH (WHITE SKIP 3' LINE 9' GAP)
CONNECTED ARROW BOARD	



PROJECT NO: 2310-09-71	HWY: STH 60	COUNTY: WASHINGTON	TRAFFIC CONTROL - IH 41 STAGE 3N2 (NIGHT WORK ONLY)	SHEET 185	E

FILE NAME : K:\195704_STH 60 AND IH 41 INTERSECTION\3.0 DELIVERABLES\3.02 ROADWAY\AUTOCAD\SHEETS\026271-S2N2.DWG
LAYOUT NAME - 025026-tc
PLOT DATE : 7/15/2025 2:20 PM PLOT BY : OLSEN, CASSIE PLOT NAME : PLOT SCALE : 1 IN:100 FT

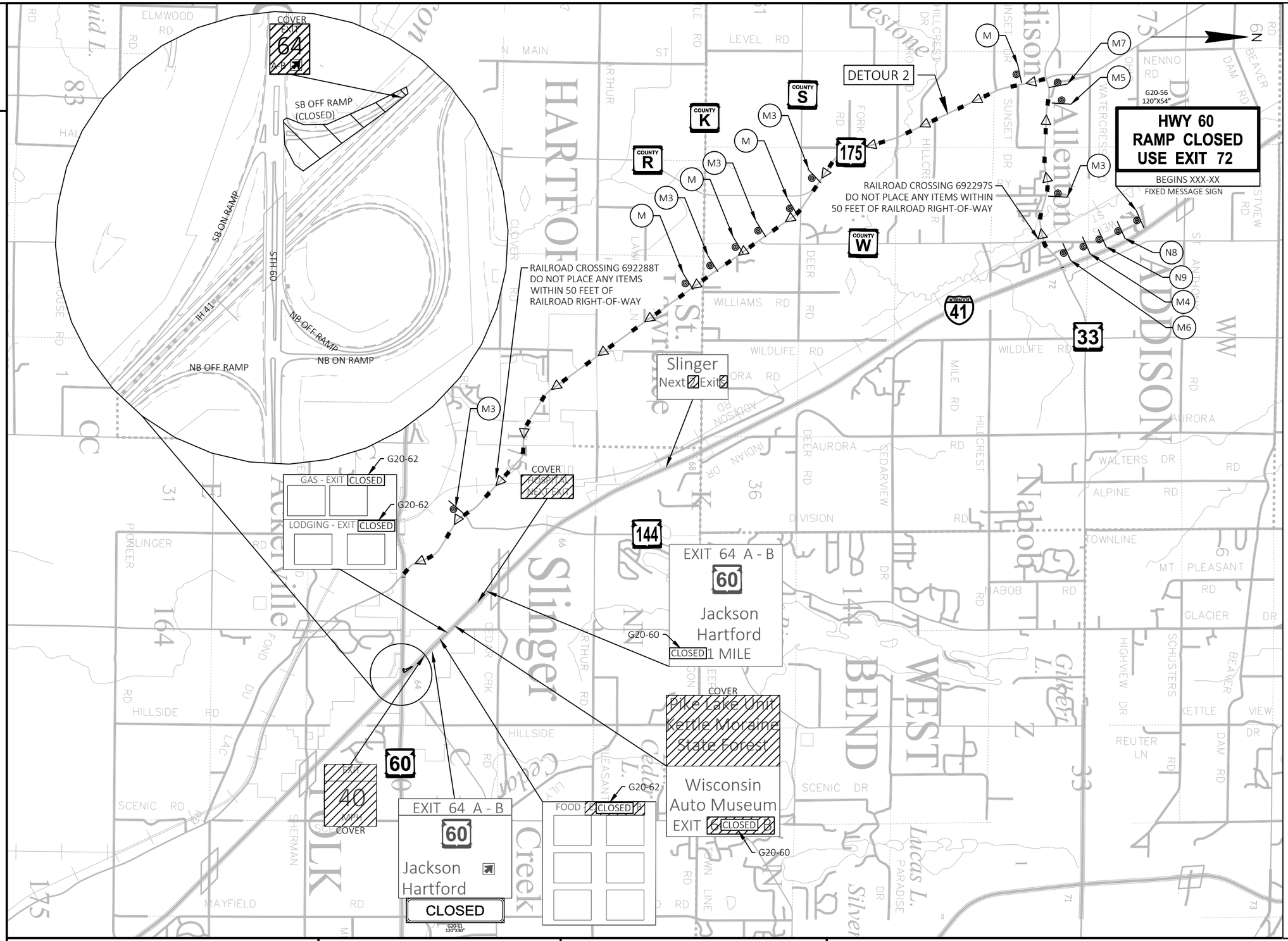


M4-8 24"X12" DETOUR / M3-2 24"X12" EAST / M1-6 24"X24" 60 — A
M4-8A 24"X18" END DETOUR / M3-2 24"X12" EAST / M1-6 24"X24" 60 — B
M4-8 24"X12" DETOUR / M3-4 24"X12" WEST / M1-6 24"X24" 60 — C
M4-8A 24"X18" END DETOUR / M3-4 24"X12" WEST / M1-6 24"X24" 60 — D
MO4-5 24"X12" TO / M3-3 24"X12" SOUTH / M1-1 24"X24" I-41 41 — E
MO4-5 24"X12" TO / M3-1 24"X12" NORTH / M1-1 24"X24" I-41 41 — F
MO4-5 24"X12" TO / M3-4 24"X12" WEST / M1-6 24"X24" 60 — G
MO4-5 24"X12" TO / M3-2 24"X12" EAST / M1-6 24"X24" 60 — H
M4-8 36"X18" DETOUR / M3-2 36"X18" EAST / M1-6 36"X36" 60 — I
M4-8 36"X18" DETOUR / M3-4 36"X18" WEST / M1-6 36"X36" 60 — J
MO4-5 36"X18" TO / M3-4 36"X18" WEST / M1-6 36"X36" 60 — K
MO4-5 36"X18" TO / M3-2 36"X18" EAST / M1-6 36"X36" 60 — L
MO4-5 24"X12" TO / M1-6 24"X24" 60 — M
MO4-5 36"X18" TO / M1-6 36"X36" 60 — N

MO5-2R 21"X21" — 1
MO6-2 21"X21" — 2
MO6-1 21"X21" — 3
MO5-1R 21"X21" — 4
MO5-1L 21"X21" — 5
MO6-1 21"X21" — 6
MO6-1 21"X21" — 7
MO5-2R 30"X30" — 8
MO6-2 30"X30" — 9
MO6-1 30"X30" — 10

- DETOUR ROUTE
- COVERING SIGNS
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT

PROJECT NO: 2310-09-71	HWY: STH 60	COUNTY: WASHINGTON	DETOUR PLANS - RAMP A CLOSURE (STAGE 1 & STAGE 2)	SHEET 186	E

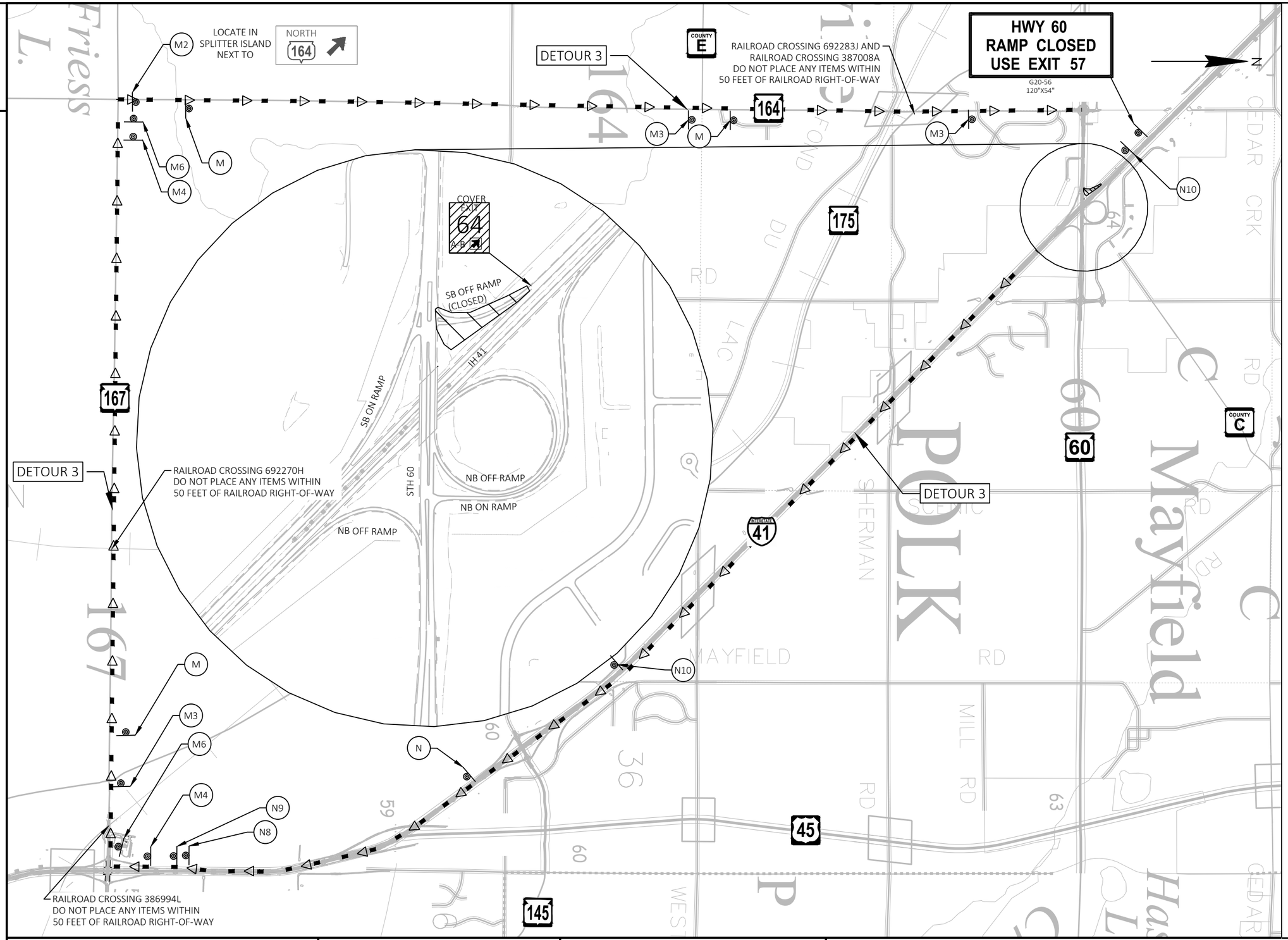


M4-8 24"X12" DETOUR M3-2 24"X12" EAST M1-6 24"X24" 60 — A
M4-8A 24"X18" END DETOUR M3-2 24"X12" EAST M1-6 24"X24" 60 — B
M4-8 24"X12" DETOUR M3-4 24"X12" WEST M1-6 24"X24" 60 — C
M4-8A 24"X18" END DETOUR M3-4 24"X12" WEST M1-6 24"X24" 60 — D
MO4-5 24"X12" TO M3-3 24"X12" SOUTH M1-1 24"X24" INTERSTATE 41 — E
MO4-5 24"X12" TO M3-1 24"X12" NORTH M1-1 24"X24" INTERSTATE 41 — F
MO4-5 24"X12" TO M3-4 24"X12" WEST M1-6 24"X24" 60 — G
MO4-5 24"X12" TO M3-2 24"X12" EAST M1-6 24"X24" 60 — H
M4-8 36"X18" DETOUR M3-2 36"X18" EAST M1-6 36"X36" 60 — I
M4-8 36"X18" DETOUR M3-4 36"X18" WEST M1-6 36"X36" 60 — J
MO4-5 36"X18" TO M3-4 36"X18" WEST M1-6 36"X36" 60 — K
MO4-5 36"X18" TO M3-2 36"X18" EAST M1-6 36"X36" 60 — L
MO4-5 24"X12" TO M1-6 24"X24" 60 — M
MO4-5 36"X18" TO M1-6 36"X36" 60 — N

MO5-2R 21"X21" — 1
MO6-2 21"X21" — 2
MO6-1 21"X21" — 3
MO5-1R 21"X21" — 4
MO5-1L 21"X21" — 5
MO6-1R 21"X21" — 6
MO6-1L 21"X21" — 7
MO5-2R 30"X30" — 8
MO6-2 30"X30" — 9
MO6-1 30"X30" — 10

DETOUR ROUTE
COVERING SIGNS
SIGN ON PERMANENT SUPPORT
SIGN ON TEMPORARY SUPPORT

PROJECT NO: 2310-09-71	HWY: STH 60	COUNTY: WASHINGTON	DETOUR PLANS - RAMP B CLOSURE (STAGE 1)	SHEET 187 E



M4-8 24"X12" DETOUR / M3-2 24"X12" EAST / M1-6 24"X24" 60 — A
M4-8A 24"X18" END DETOUR / M3-2 24"X12" EAST / M1-6 24"X24" 60 — B
M4-8 24"X12" DETOUR / M3-4 24"X12" WEST / M1-6 24"X24" 60 — C
M4-8A 24"X18" END DETOUR / M3-4 24"X12" WEST / M1-6 24"X24" 60 — D
MO4-5 24"X12" TO / M3-3 24"X12" SOUTH / M1-1 24"X24" INTERSTATE 41 — E
MO4-5 24"X12" TO / M3-1 24"X12" NORTH / M1-1 24"X24" INTERSTATE 41 — F
MO4-5 24"X12" TO / M3-4 24"X12" WEST / M1-6 24"X24" 60 — G
MO4-5 24"X12" TO / M3-2 24"X12" EAST / M1-6 24"X24" 60 — H
M4-8 36"X18" DETOUR / M3-2 36"X18" EAST / M1-6 36"X36" 60 — I
M4-8 36"X18" DETOUR / M3-4 36"X18" WEST / M1-6 36"X36" 60 — J
MO4-5 36"X18" TO / M3-4 36"X18" WEST / M1-6 36"X36" 60 — K
MO4-5 36"X18" TO / M3-2 36"X18" EAST / M1-6 36"X36" 60 — L
MO4-5 24"X12" TO / M1-6 24"X24" 60 — M
MO4-5 36"X18" TO / M1-6 36"X36" 60 — N
MO4-5 36"X18" TO / M3-3 36"X18" SOUTH / M1-1 36"X36" INTERSTATE 41 — O
MO4-5 36"X18" TO / M3-1 36"X18" NORTH / M1-1 36"X36" INTERSTATE 41 — P

MO5-2R 21"X21" — 1
MO6-2 21"X21" — 2
MO6-1 21"X21" — 3
MO5-1R 21"X21" — 4
MO5-1L 21"X21" — 5
MO6-1R 21"X21" — 6
MO6-1L 21"X21" — 7
MO5-2R 30"X30" — 8
MO6-2 30"X30" — 9
MO6-1 30"X30" — 10

DETOUR ROUTE
COVERING SIGNS
SIGN ON PERMANENT SUPPORT
SIGN ON TEMPORARY SUPPORT

PROJECT NO: 2310-09-71	HWY: STH 60	COUNTY: WASHINGTON	DETOUR PLANS - SECONDARY DETOUR - RAMP B CLOSURE (STAGE 1)	SHEET 188	E

2

FRAME 1	FRAME 2
ROAD TO CLOSE	XXXXDAY XX/XX

PLACE PCMS ON STH 60 WB OUTSIDE SHOULDER WEST OF CTH C FOR 7 DAYS IN ADVANCE OF CLOSURE

FRAME 1	FRAME 2
ROAD CLOSED AHEAD	USE ALT ROUTE

PLACE PCMS ON STH 60 WB OUTSIDE SHOULDER 1600' EAST OF CTH C FOR DURATION OF CLOSURE

N

C7 C5 C5 C7 J9 J8 J10 DETOUR 4

144

CEDAR CREEK ROAD

66

64

41

60

NB OFF RAMP

NB ON RAMP

SB OFF RAMP

IH 41

STH 60 WB (CLOSED)

SB ON RAMP

NB OFF RAMP

J8 J10 J9 D

C4 C6 C3 C C7 C5

TO WEST SOUTH 60 41 ONLY

COVER

NORTH 41 ONLY

M3-4 24"X12" WEST
M1-6 24"X24" 60

DETOUR AHEAD W20-2A

M4-8 24"X12" DETOUR
M3-2 24"X12" EAST
M1-6 24"X24" 60
A

M4-8A 24"X18" END DETOUR
M3-2 24"X12" EAST
M1-6 24"X24" 60
B

M4-8 24"X12" DETOUR
M3-4 24"X12" WEST
M1-6 24"X24" 60
C

M4-8A 24"X18" END DETOUR
M3-4 24"X12" WEST
M1-6 24"X24" 60
D

M4-5 24"X12" TO
M3-3 24"X12" SOUTH
M1-1 24"X24" INTERSTATE 41
E

M4-5 24"X12" TO
M3-1 24"X12" NORTH
M1-1 24"X24" INTERSTATE 41
F

M4-5 24"X12" TO
M3-4 24"X12" WEST
M1-6 24"X24" 60
G

M4-5 24"X12" TO
M3-2 24"X12" EAST
M1-6 24"X24" 60
H

M4-8 36"X18" DETOUR
M3-2 36"X18" EAST
M1-6 36"X36" 60
I

M4-8 36"X18" DETOUR
M3-4 36"X18" WEST
M1-6 36"X36" 60
J

M4-5 36"X18" TO
M3-4 36"X18" WEST
M1-6 36"X36" 60
K

M4-5 36"X18" TO
M3-2 36"X18" EAST
M1-6 36"X36" 60
L

M4-5 24"X12" TO
M1-6 24"X24" 60
M

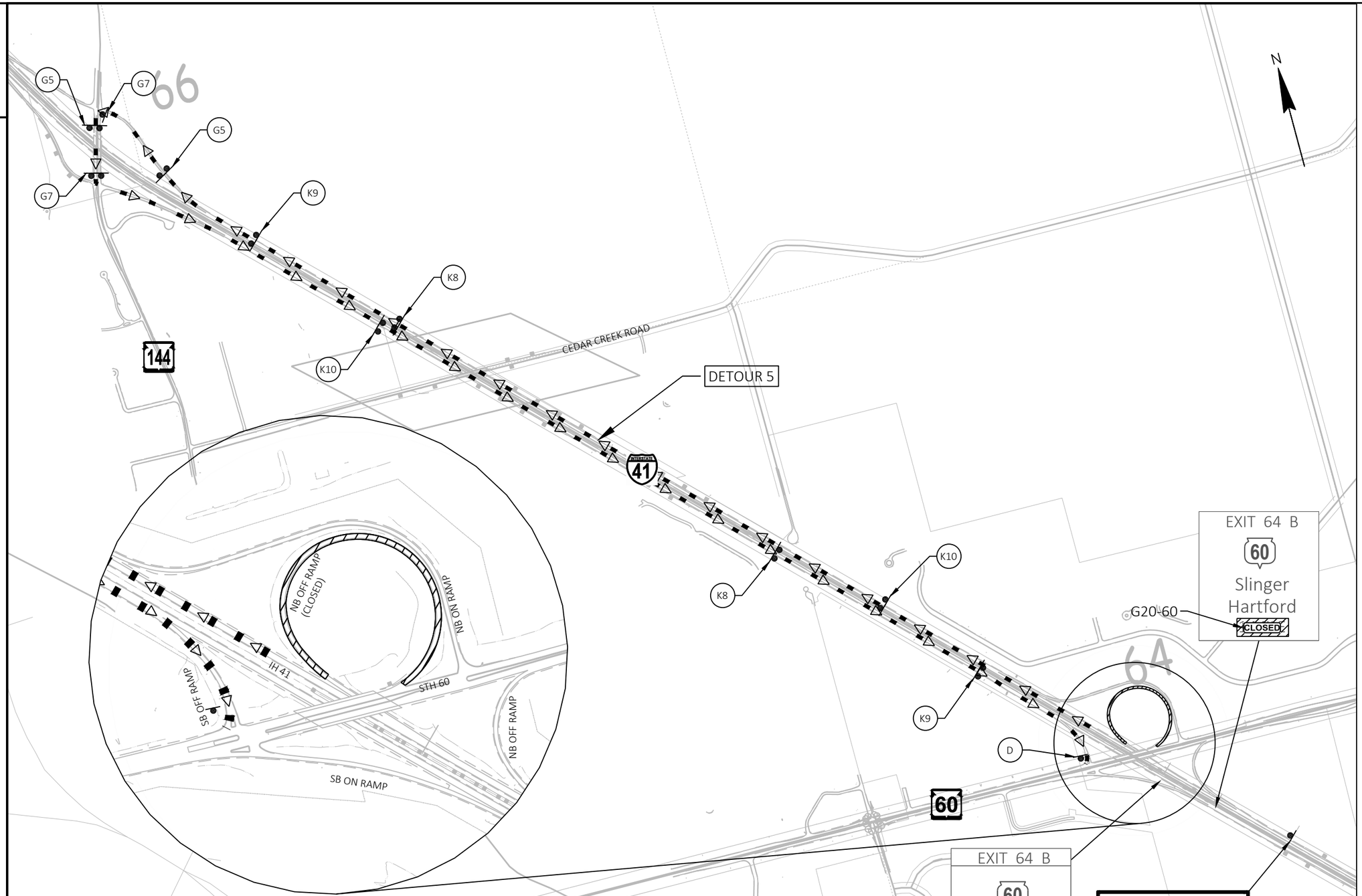
M4-5 36"X18" TO
M1-6 36"X36" 60
N

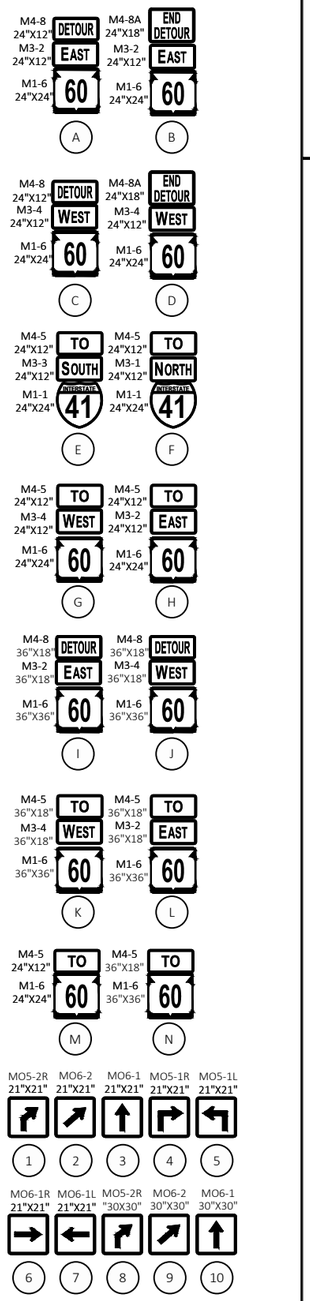
MO5-2R 21"X21" 1
MO6-2 21"X21" 2
MO6-1 21"X21" 3
MO5-1R 21"X21" 4
MO5-1L 21"X21" 5

MO6-1R 21"X21" 6
MO6-1L 21"X21" 7
MO5-2R "30X30" 8
MO6-2 30"X30" 9
MO6-1 30"X30" 10

DETOUR ROUTE
COVERING SIGNS
SIGN ON PERMANENT SUPPORT
SIGN ON TEMPORARY SUPPORT

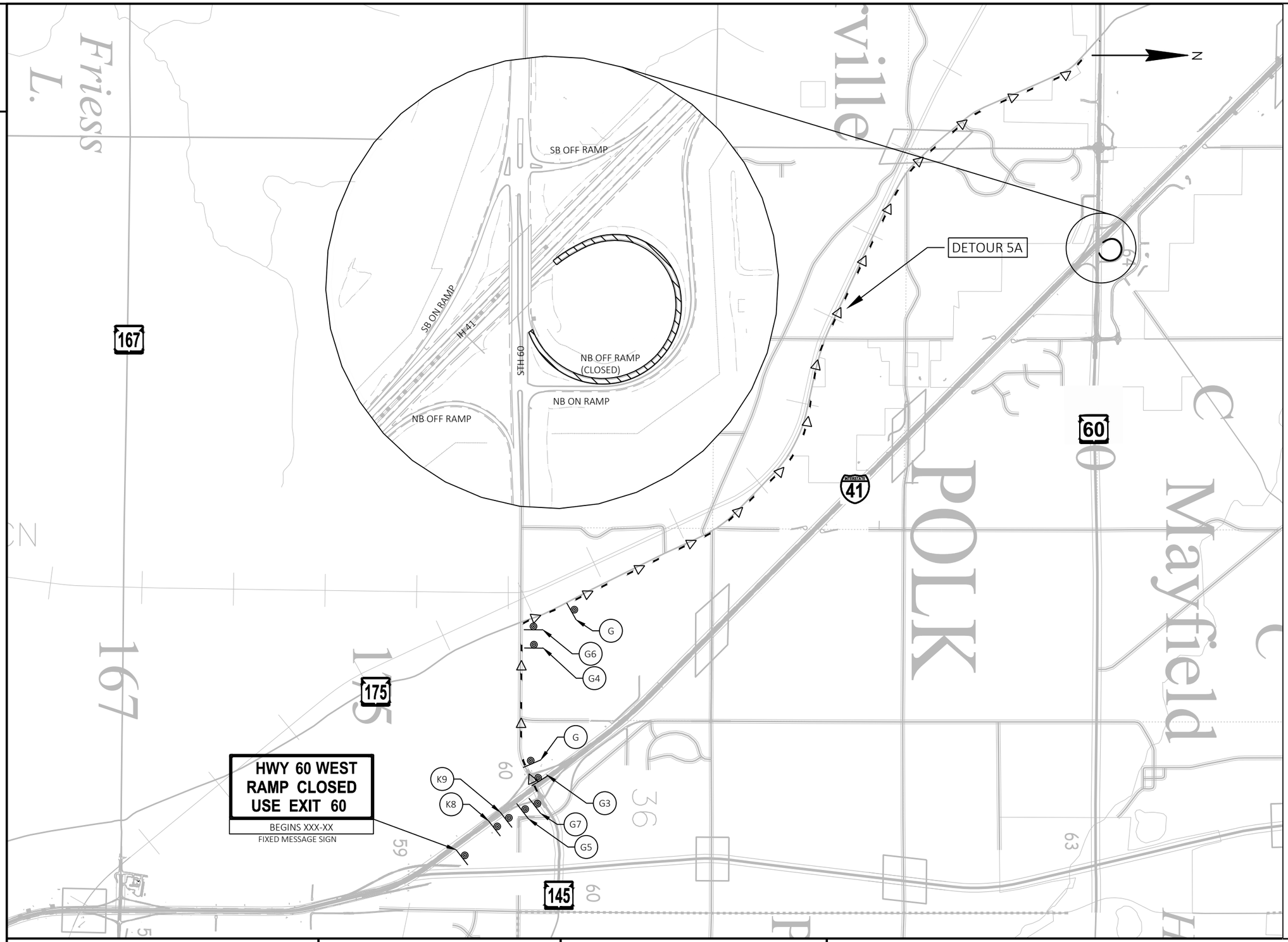
PROJECT NO: 2310-09-71	HWY: STH 60	COUNTY: WASHINGTON	DETOUR PLANS - WB STH 60 CLOSURE (STAGE 2A)	SHEET 189	E





2

PROJECT NO: 2310-09-71	HWY: STH 60	COUNTY: WASHINGTON	DETOUR PLANS - RAMP D CLOSURE (STAGE 2B)	SHEET 190 E



M4-8 24"X12" DETOUR / M3-2 24"X12" EAST / M1-6 24"X24" 60 — A
M4-8A 24"X18" END DETOUR / M3-2 24"X12" EAST / M1-6 24"X24" 60 — B
M4-8 24"X12" DETOUR / M3-4 24"X12" WEST / M1-6 24"X24" 60 — C
M4-8A 24"X18" END DETOUR / M3-4 24"X12" WEST / M1-6 24"X24" 60 — D
M4-5 24"X12" TO / M3-3 24"X12" SOUTH / M1-1 24"X24" INTERSTATE 41 — E
M4-5 24"X12" TO / M3-1 24"X12" NORTH / M1-1 24"X24" INTERSTATE 41 — F
M4-5 24"X12" TO / M3-4 24"X12" WEST / M1-6 24"X24" 60 — G
M4-5 24"X12" TO / M3-2 24"X12" EAST / M1-6 24"X24" 60 — H
M4-8 36"X18" DETOUR / M3-2 36"X18" EAST / M1-6 36"X36" 60 — I
M4-8 36"X18" DETOUR / M3-4 36"X18" WEST / M1-6 36"X36" 60 — J
M4-5 36"X18" TO / M3-4 36"X18" WEST / M1-6 36"X36" 60 — K
M4-5 36"X18" TO / M3-2 36"X18" EAST / M1-6 36"X36" 60 — L
M4-5 24"X12" TO / M1-6 24"X24" 60 — M
M4-5 36"X18" TO / M1-6 36"X36" 60 — N

MO5-2R 21"X21" (1) MO6-2 21"X21" (2) MO6-1 21"X21" (3) MO5-1R 21"X21" (4) MO5-1L 21"X21" (5)

MO6-1R 21"X21" (6) MO6-1L 21"X21" (7) MO5-2R "30X30" (8) MO6-2 30"X30" (9) MO6-1 30"X30" (10)

DETOUR ROUTE

COVERING SIGNS

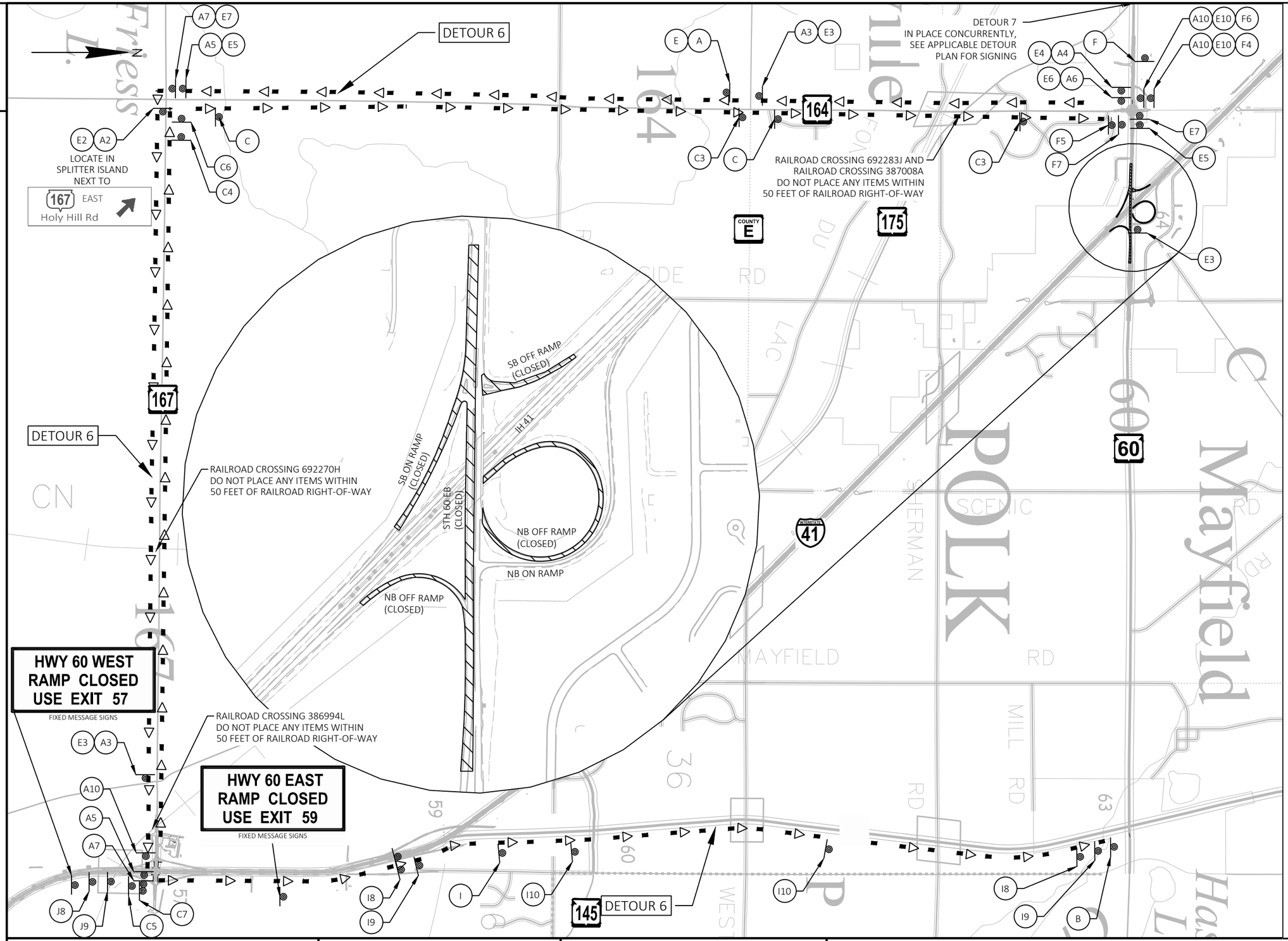
SIGN ON PERMANENT SUPPORT

SIGN ON TEMPORARY SUPPORT

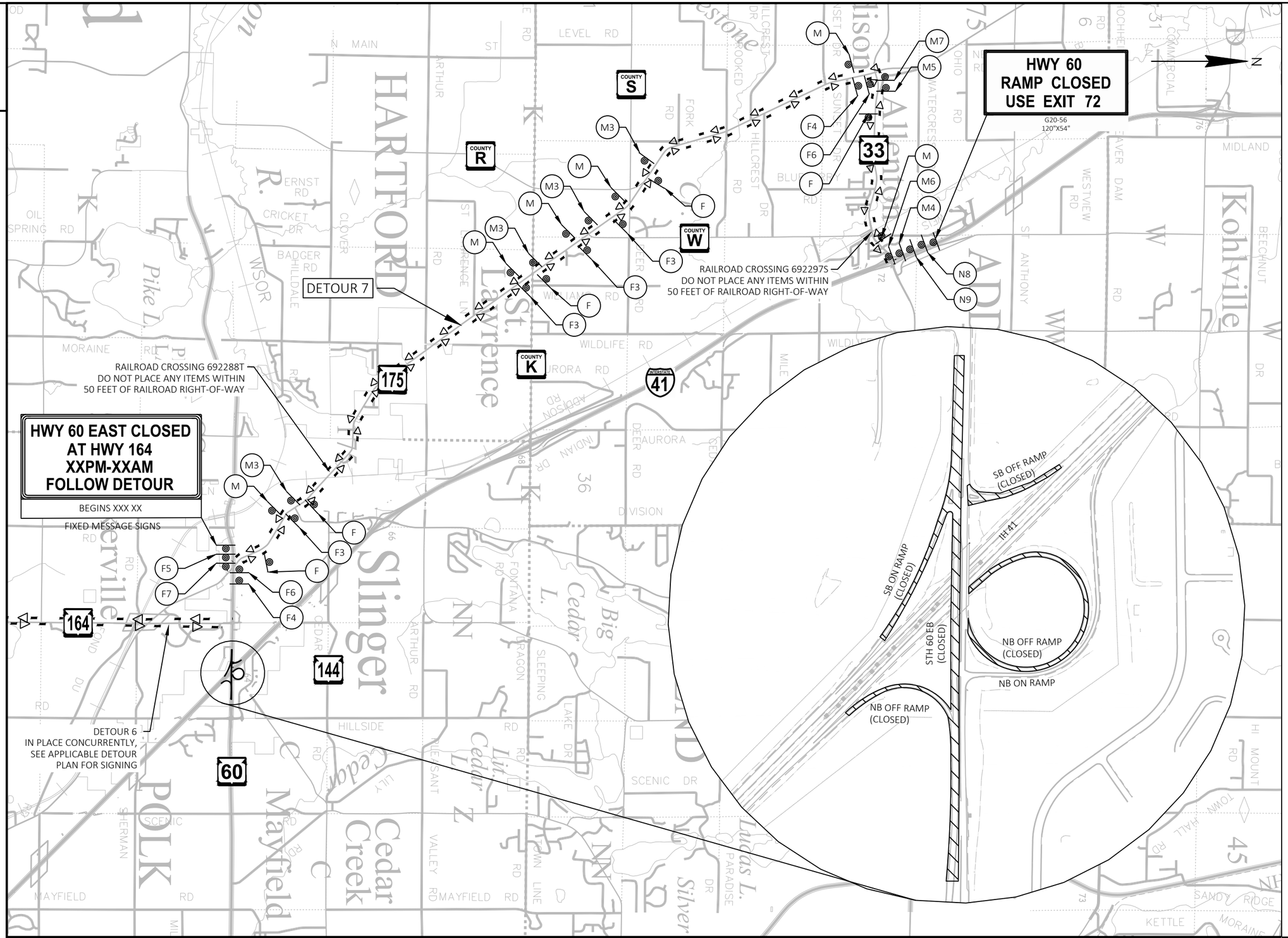
2

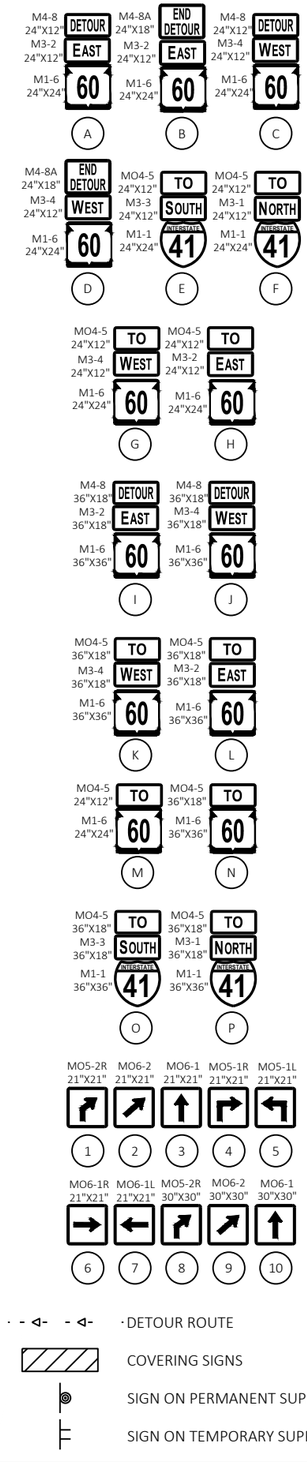
PROJECT NO: 2310-09-71	HWY: STH 60	COUNTY: WASHINGTON	DETOUR PLANS - RAMP D CLOSURE (STAGE 2B)	SHEET 191 E

FILE NAME : K:\195704_STH 60 AND IH 41 INTERSECTION\3.0 DELIVERABLES\3.02 ROADWAY\AUTOCAD\SHEETS\027003-DT-S2AB.DWG
LAYOUT NAME - 04
PLOT DATE : 10/18/2025 6:42 PM
PLOT BY : OLSEN, CASSIE
PLOT NAME :
PLOT SCALE : 1 IN:0.5 MI
WISDOT/CADDS SHEET 42



PROJECT NO: 2310-09-71	HWY: STH 60	COUNTY: WASHINGTON	DETOUR PLANS - STH 60 EB CLOSURE (STAGE 3N1)	SHEET 192 E





2

PROJECT NO: 2310-09-71	HWY: STH 60	COUNTY: WASHINGTON	DETOUR PLANS - STH 60 EB CLOSURE (STAGE 3N1)	SHEET 193	E

DETOUR 8

RAILROAD CROSSING 692283J AND
RAILROAD CROSSING 387008A
DO NOT PLACE ANY ITEMS WITHIN
50 FEET OF RAILROAD RIGHT-OF-WAY

DETOUR 9
IN PLACE CONCURRENTLY,
SEE APPLICABLE DETOUR
PLAN FOR SIGNING

164

C3 C C6 C4

COUNTY E

175

SB OFF RAMP (CLOSED)

IH 41

SB ON RAMP

STH 60 WB (CLOSED)

NB OFF RAMP (CLOSED)

NB ON RAMP (CLOSED)

NB OFF RAMP

167

DETOUR 8

RAILROAD CROSSING 692270H
DO NOT PLACE ANY ITEMS WITHIN
50 FEET OF RAILROAD RIGHT-OF-WAY

HWY 60 WEST
RAMP CLOSED
USE EXIT 57
FIXED MESSAGE SIGNS

C C3 C6 C4 J9 J8

RAILROAD CROSSING 386994L
DO NOT PLACE ANY ITEMS WITHIN
50 FEET OF RAILROAD RIGHT-OF-WAY

J8 J9 C5 C7

J J10 O10 P9 P8

C6 E6 F6
C4 E4 F4

HWY 60 WEST CLOSED
AT COUNTY C
XXPM-XXAM
FOLLOW DETOUR
BEGINS XXX-XX
FIXED MESSAGE SIGNS

C4 E4 F4
C6 E6 F6
C2 E2 F2

ROAD CLOSED
TO THRU TRAFFIC
2 ¾ MILES AHEAD
R11-3
60"X30"

C7 E7 F7
C5 E5 F5

HWY 60 WEST CLOSED
AT COUNTY C
XXPM-XXAM
FOLLOW DETOUR
BEGINS XXX-XX
FIXED MESSAGE SIGNS

C4 E4 F4
C6 E6 F6

C5 E5 F5
C7 E7 F7

HWY 60 WEST CLOSED
AT COUNTY C
XXPM-XXAM
FOLLOW DETOUR
BEGINS XXX XX
FIXED MESSAGE SIGNS

41

HILLSIDE RD

COUNTY C

DETOUR 8

60

J O P

J10 O10 P10

HWY 60 WEST CLOSED
AT COUNTY C
XXPM-XXAM
FOLLOW DETOUR
BEGINS XXX-XX
FIXED MESSAGE SIGNS

45

DETOUR 8

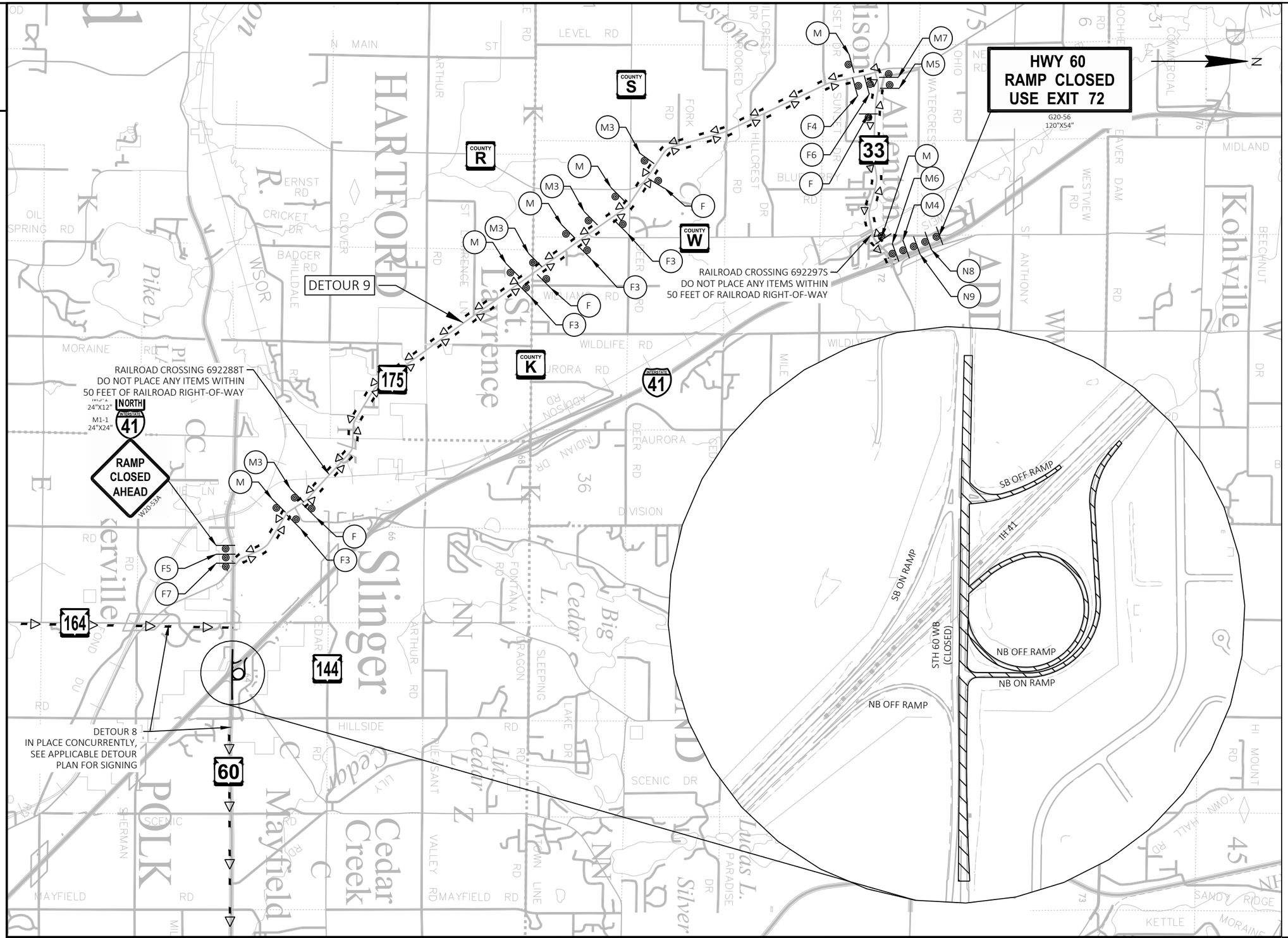
145

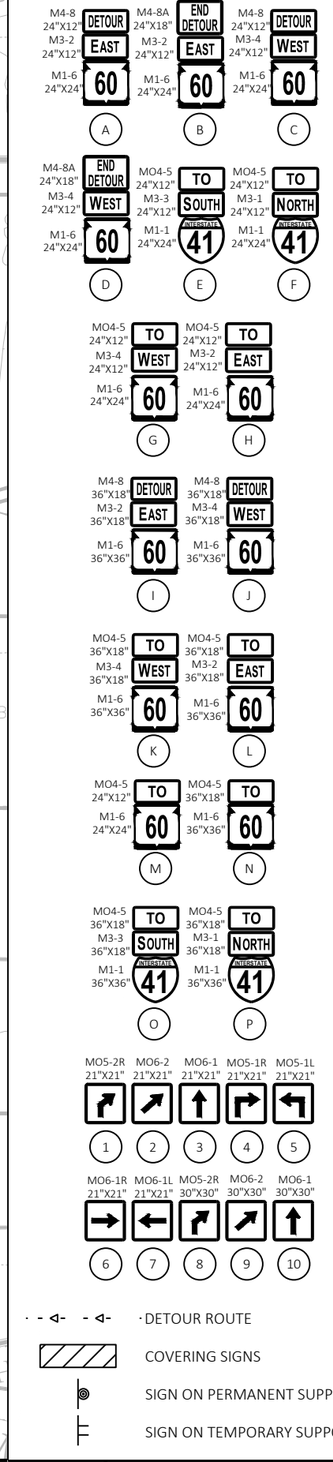
M4-8 24"X12" DETOUR / M3-2 24"X12" EAST / M1-6 24"X24" 60 — A
M4-8A 24"X18" END DETOUR / M3-2 24"X12" EAST / M1-6 24"X24" 60 — B
M4-8 24"X12" DETOUR / M3-4 24"X12" WEST / M1-6 24"X24" 60 — C
M4-8A 24"X18" END DETOUR / M3-4 24"X12" WEST / M1-6 24"X24" 60 — D
MO4-5 24"X12" TO / M3-3 24"X12" SOUTH / M1-1 24"X24" INTERSTATE 41 — E
MO4-5 24"X12" TO / M3-1 24"X12" NORTH / M1-1 24"X24" INTERSTATE 41 — F
MO4-5 24"X12" TO / M3-4 24"X12" WEST / M1-6 24"X24" 60 — G
MO4-5 24"X12" TO / M3-2 24"X12" EAST / M1-6 24"X24" 60 — H
M4-8 36"X18" DETOUR / M3-2 36"X18" EAST / M1-6 36"X36" 60 — I
M4-8 36"X18" DETOUR / M3-4 36"X18" WEST / M1-6 36"X36" 60 — J
MO4-5 36"X18" TO / M3-4 36"X18" WEST / M1-6 36"X36" 60 — K
MO4-5 36"X18" TO / M3-2 36"X18" EAST / M1-6 36"X36" 60 — L
MO4-5 24"X12" TO / M1-6 24"X24" 60 — M
MO4-5 36"X18" TO / M1-6 36"X36" 60 — N
MO4-5 36"X18" TO / M3-3 36"X18" SOUTH / M1-1 36"X36" INTERSTATE 41 — O
MO4-5 36"X18" TO / M3-1 36"X18" NORTH / M1-1 36"X36" INTERSTATE 41 — P

MO5-2R 21"X21" — 1
MO6-2 21"X21" — 2
MO6-1 21"X21" — 3
MO5-1R 21"X21" — 4
MO5-1L 21"X21" — 5
MO6-1R 21"X21" — 6
MO6-1L 21"X21" — 7
MO5-2R 30"X30" — 8
MO6-2 30"X30" — 9
MO6-1 30"X30" — 10

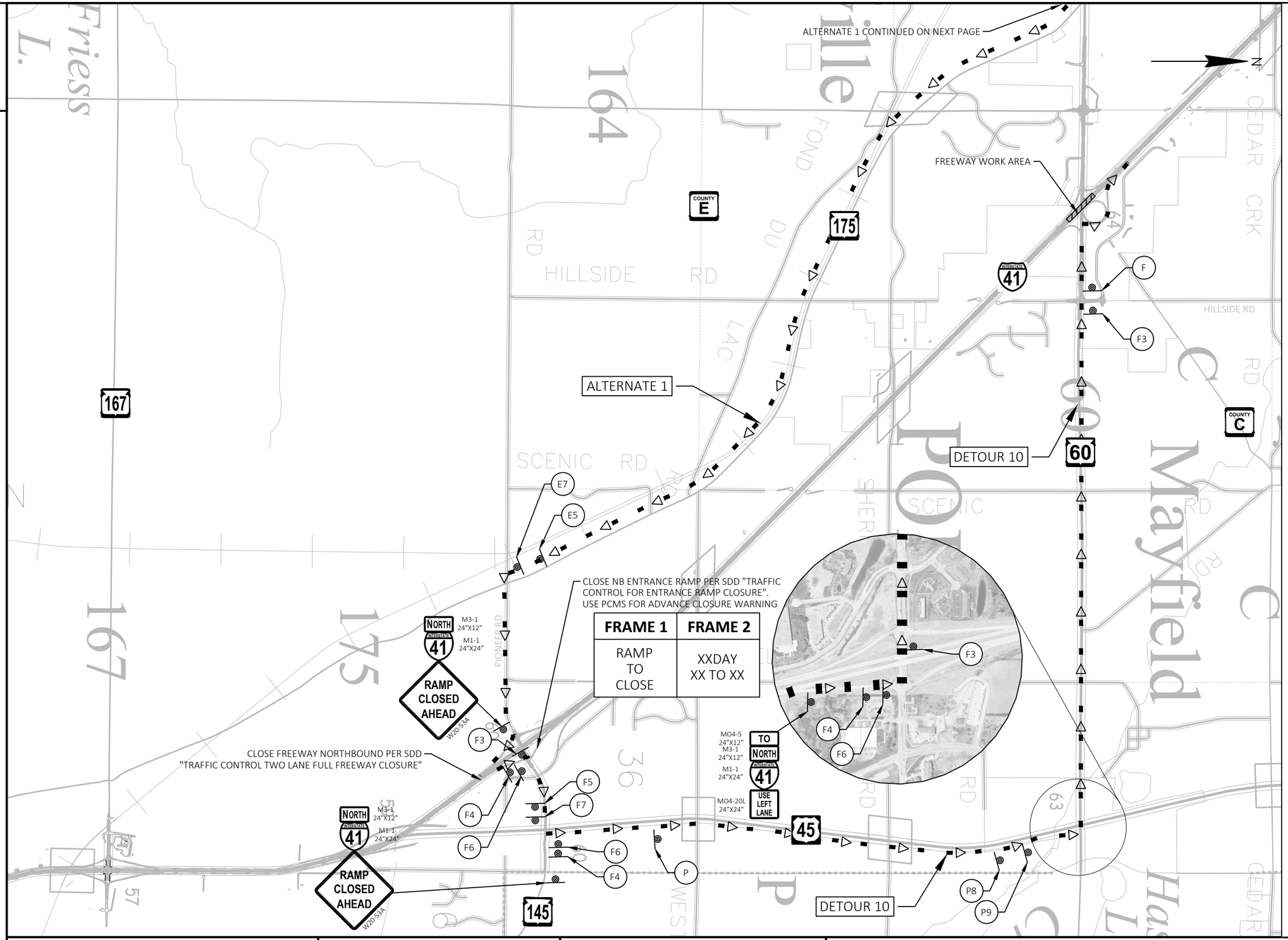
DETOUR ROUTE
COVERING SIGNS
SIGN ON PERMANENT SUPPORT
SIGN ON TEMPORARY SUPPORT

PROJECT NO: 2310-09-71	HWY: STH 60	COUNTY: WASHINGTON	DETOUR PLANS - STH 60 WB CLOSURE (STAGE 3N2)	SHEET 194 E





PROJECT NO: 2310-09-71	HWY: STH 60	COUNTY: WASHINGTON	DETOUR PLANS - STH 60 WB CLOSURE (STAGE 3N2)	SHEET 195	E



M4-8 24"X12" DETOUR M3-2 24"X12" EAST M1-6 24"X24" 60 — A

M4-8A 24"X18" END DETOUR M3-2 24"X12" EAST M1-6 24"X24" 60 — B

M4-8 24"X12" DETOUR M3-4 24"X12" WEST M1-6 24"X24" 60 — C

M4-8A 24"X18" END DETOUR M3-4 24"X12" WEST M1-6 24"X24" 60 — D

MO4-5 24"X12" TO M3-3 24"X12" SOUTH INTERSTATE 41 M1-1 24"X24" — E

MO4-5 24"X12" TO M3-1 24"X12" NORTH INTERSTATE 41 M1-1 24"X24" — F

MO4-5 24"X12" TO M3-4 24"X12" WEST M1-6 24"X24" 60 — G

MO4-5 24"X12" TO M3-2 24"X12" EAST M1-6 24"X24" 60 — H

M4-8 36"X18" DETOUR M3-2 36"X18" EAST M1-6 36"X36" 60 — I

M4-8 36"X18" DETOUR M3-4 36"X18" WEST M1-6 36"X36" 60 — J

MO4-5 36"X18" TO M3-4 36"X18" WEST M1-6 36"X36" 60 — K

MO4-5 36"X18" TO M3-2 36"X18" EAST M1-6 36"X36" 60 — L

MO4-5 24"X12" TO M1-6 24"X24" 60 — M

MO4-5 36"X18" TO M1-6 36"X36" 60 — N

MO4-5 36"X18" TO M3-3 36"X18" SOUTH INTERSTATE 41 M1-1 36"X36" — O

MO4-5 36"X18" TO M3-1 36"X18" NORTH INTERSTATE 41 M1-1 36"X36" — P

MO5-2R 21"X21" — 1

MO6-2 21"X21" — 2

MO6-1 21"X21" — 3

MO5-1R 21"X21" — 4

MO5-1L 21"X21" — 5

MO6-1R 21"X21" — 6

MO6-1L 21"X21" — 7

MO5-2R 30"X30" — 8

MO6-2 30"X30" — 9

MO6-1 30"X30" — 10

DETOUR ROUTE

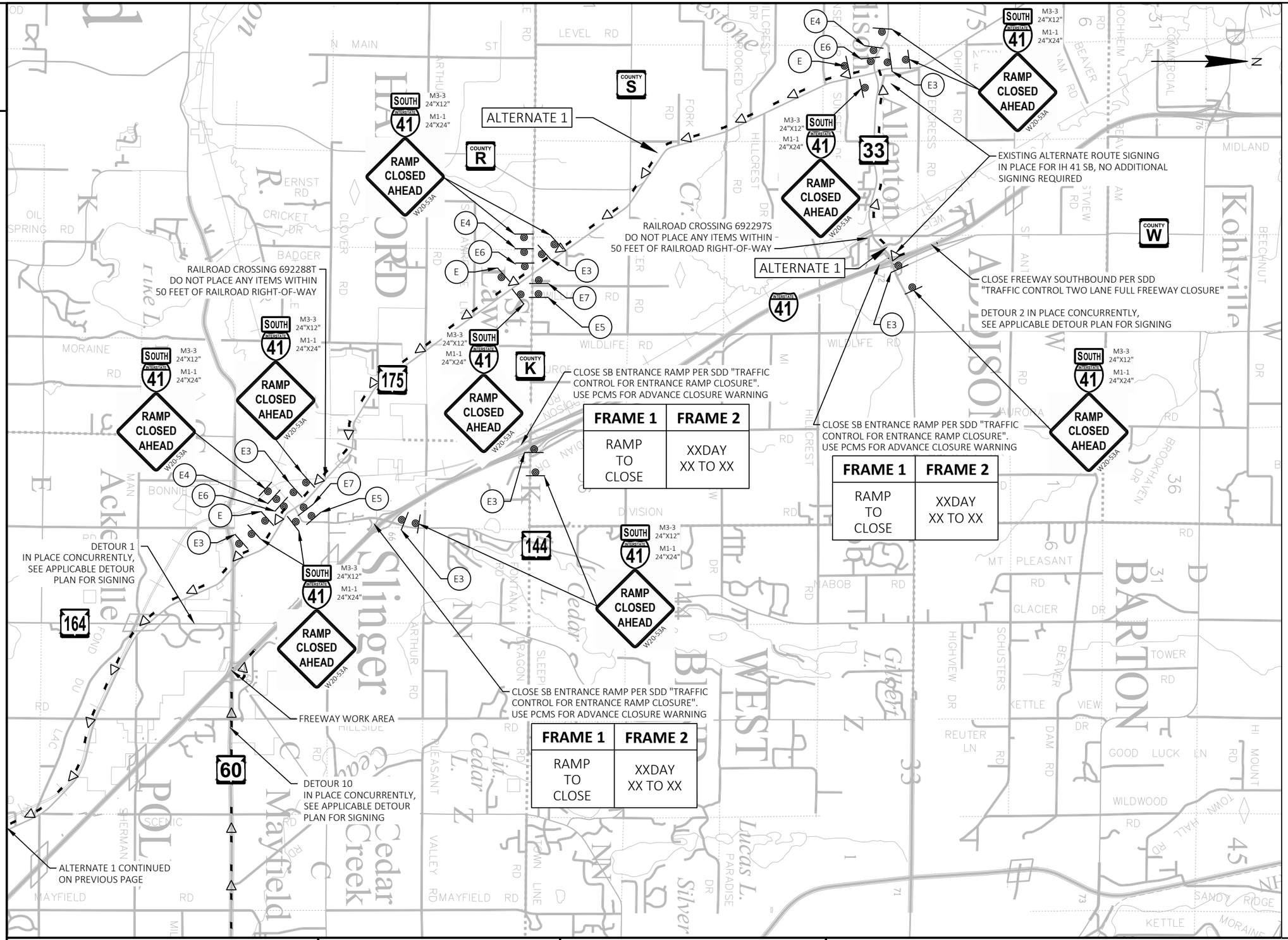
COVERING SIGNS

SIGN ON PERMANENT SUPPORT

SIGN ON TEMPORARY SUPPORT

PROJECT NO: 2310-09-71	HWY: STH 60	COUNTY: WASHINGTON	DETOUR PLANS - IH 41 FULL FREEWAY CLOSURE (STAGE 1N)	SHEET 196	E

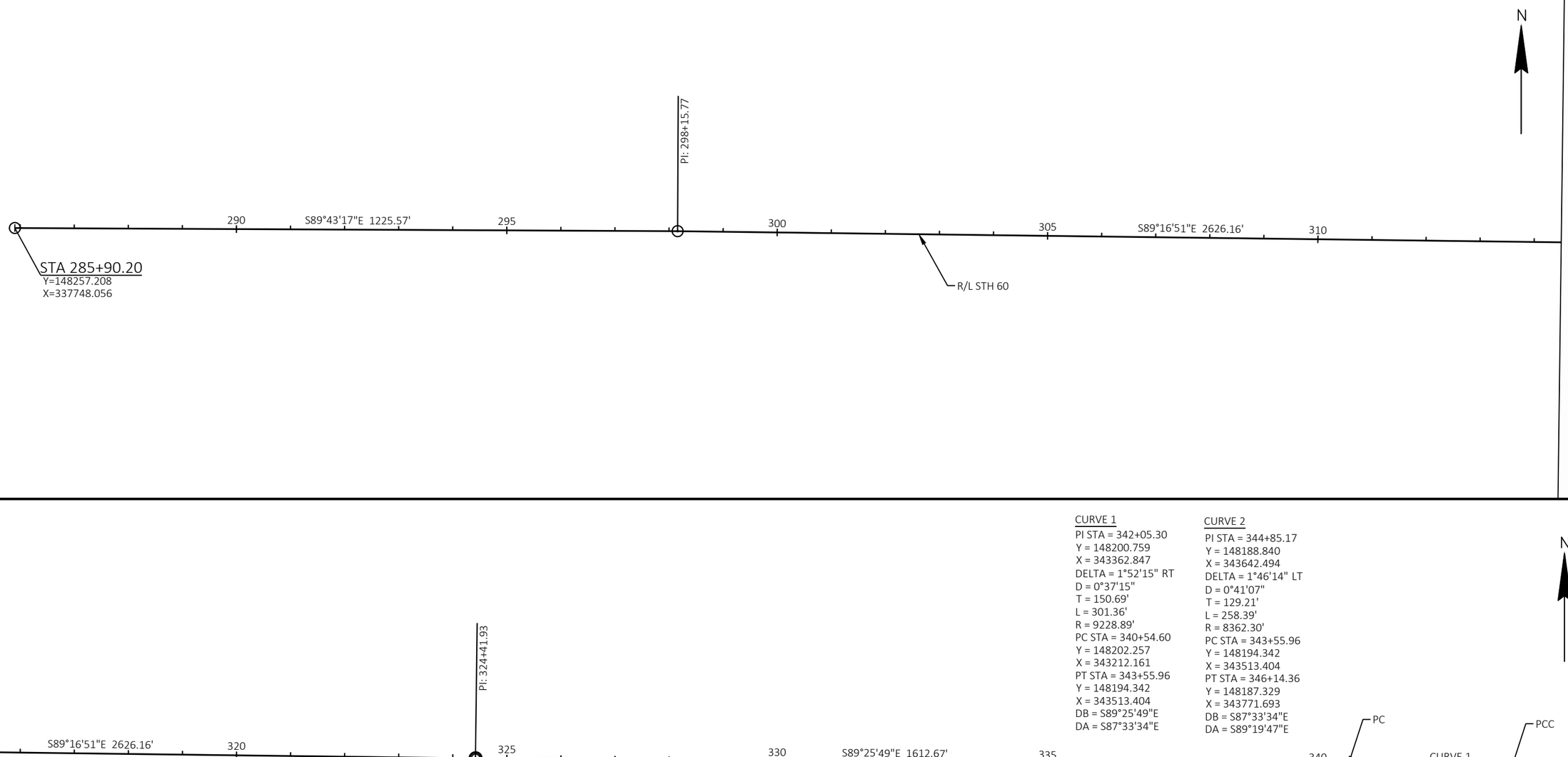
FILE NAME : K:\195704_STH 60 AND IH 41 INTERSECTION\3.0 DELIVERABLES\3.02 ROADWAY\AUTOCAD\SHEETS\027005-DT-STH60.DWG
LAYOUT NAME - 06
PLOT DATE : 10/8/2025 8:14 PM
PLOT BY : OLSEN, CASSIE
PLOT NAME :
PLOT SCALE : 1 IN:0.5 MI
WISDOT/CADDS SHEET 42



PROJECT NO: 2310-09-71	HWY: STH 60	COUNTY: WASHINGTON	DETOUR PLANS - IH 41 FULL FREEWAY CLOSURE (STAGE 1N)	SHEET 197	E

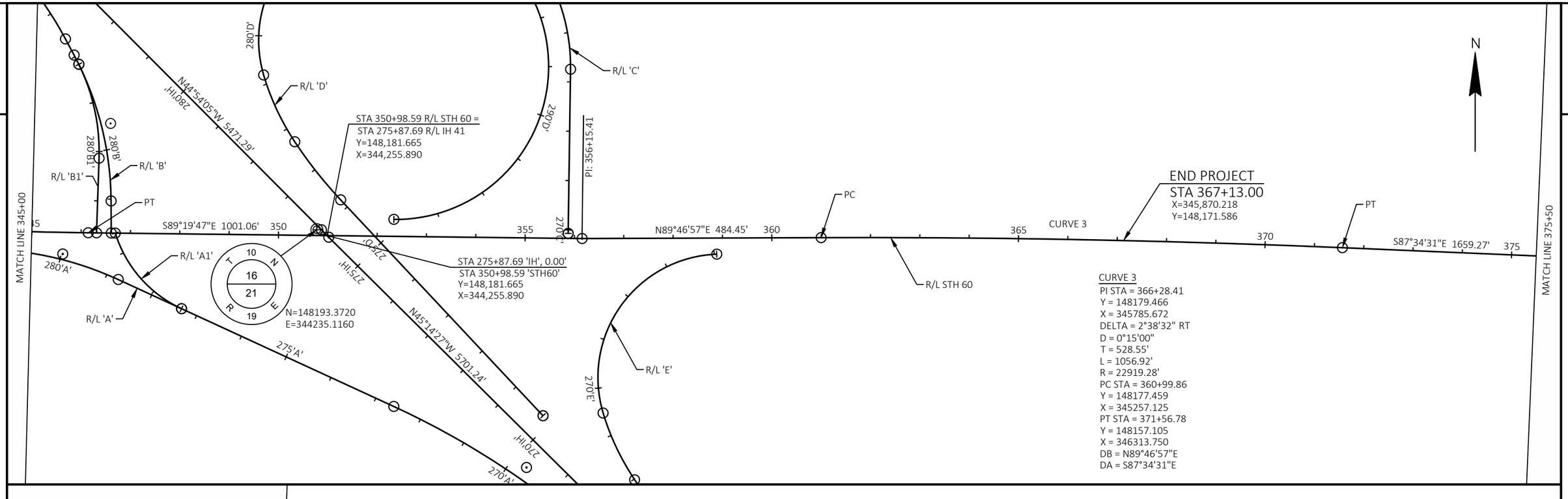
FILE NAME : K:\195704_STH 60 AND IH 41 INTERSECTION\3.0 DELIVERABLES\3.02 ROADWAY\AUTOCAD\SHEETS\027005-DT-STH60.DWG
LAYOUT NAME - 06A
PLOT DATE : 10/8/2025 8:14 PM
PLOT BY : OLSEN, CASSIE
PLOT NAME :
PLOT SCALE : 1 IN:1 MI
WISDOT/CADDS SHEET 42

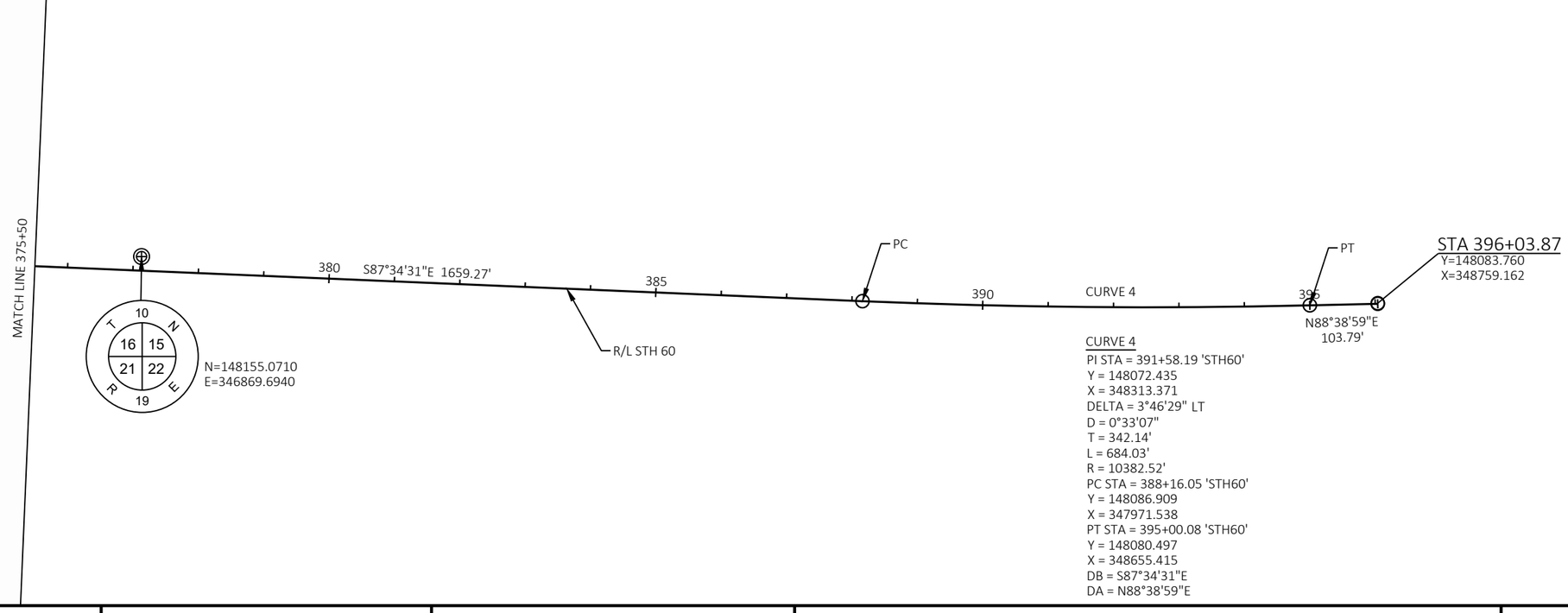
2



PROJECT NO: 2310-09-71	HWY: STH 60	COUNTY: WASHINGTON	ALIGNMENT PLAN - STH 60	SHEET 198	E

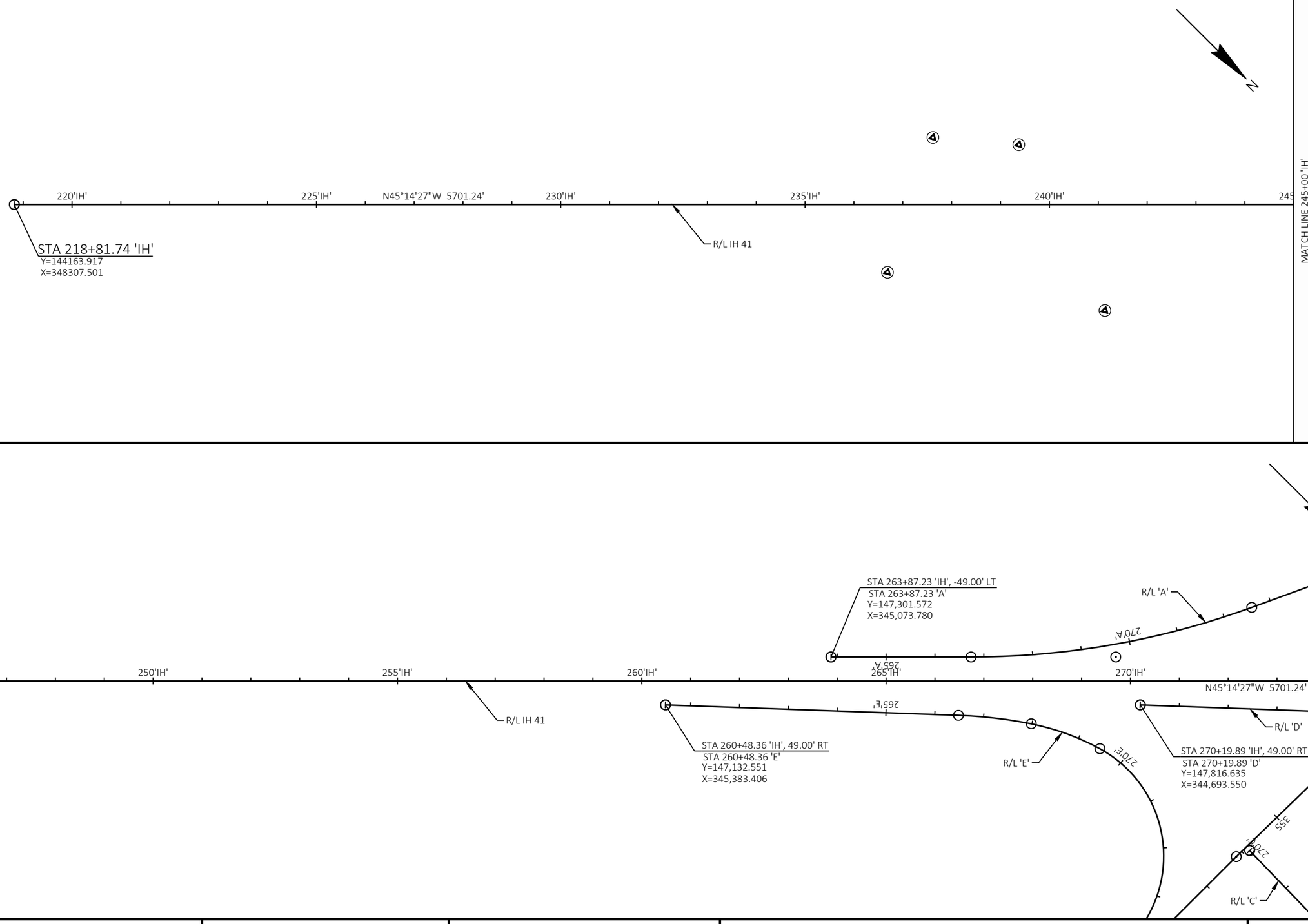
FILE NAME : K:\195704_STH 60 AND IH 41 INTERSECTION\3.0 DELIVERABLES\3.02 ROADWAY\AUTOCAD\SHEETS\027201-AD.DWG
LAYOUT NAME - 01
PLOT DATE : 10/29/2024 11:54 AM
PLOT BY : GUILLAMA, TINA
PLOT NAME :
PLOT SCALE : 1 IN:200 FT
WISDOT/CADDS SHEET 44





PROJECT NO: 2310-09-71	HWY: STH 60	COUNTY: WASHINGTON	ALIGNMENT PLAN - STH 60	SHEET 199	E

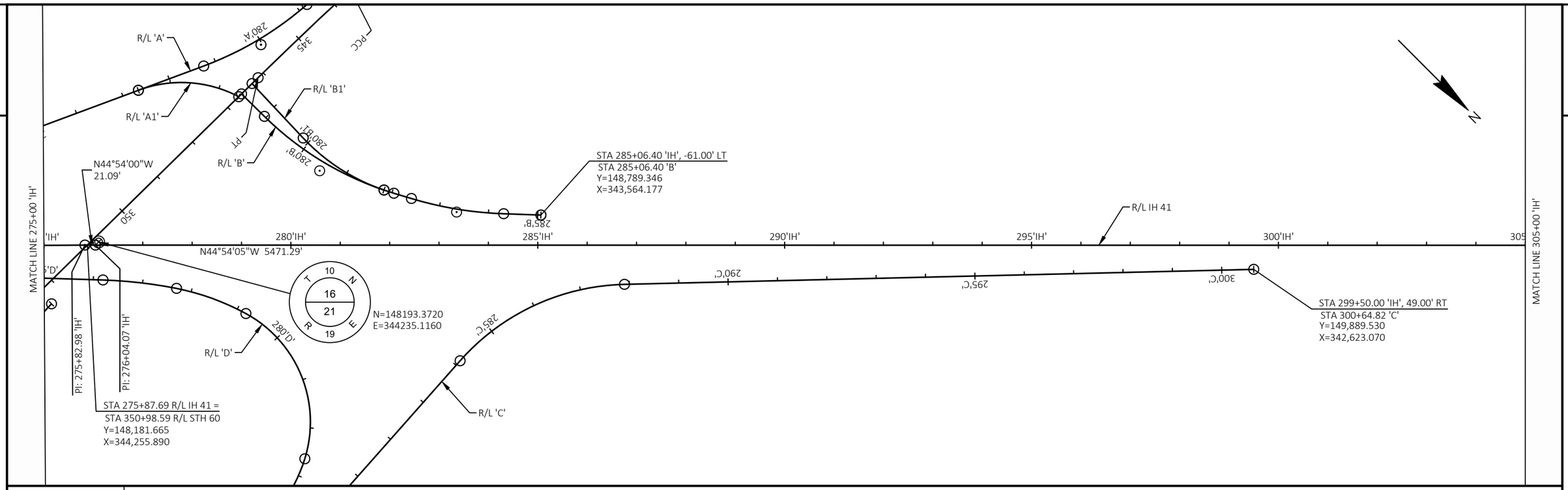
2

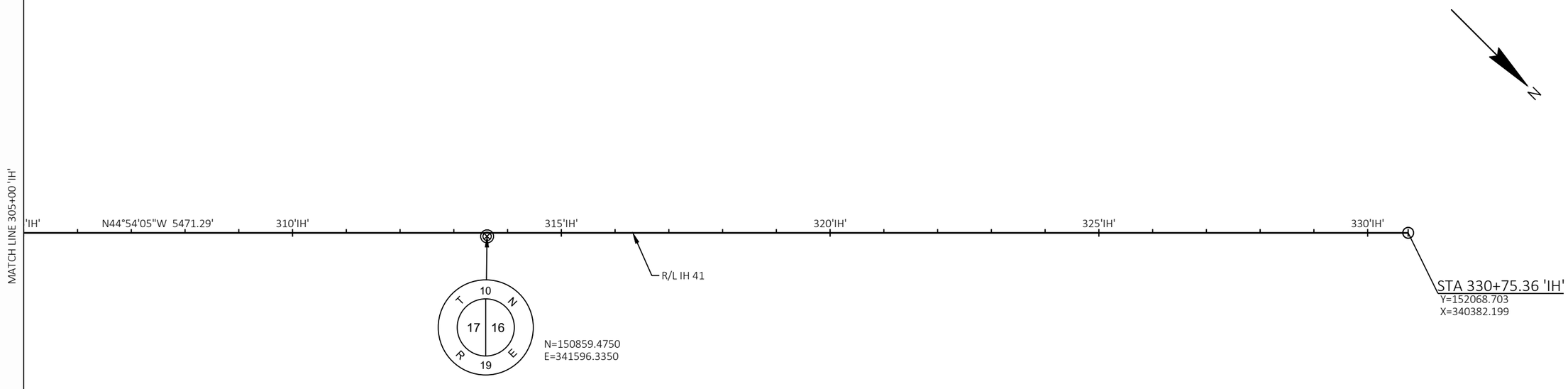


PROJECT NO: 2310-09-71	HWY: STH 60	COUNTY: WASHINGTON	ALIGNMENT PLAN - IH 41	SHEET 200	E

FILE NAME : K:\195704_STH 60 AND IH 41 INTERSECTION\3.0 DELIVERABLES\3.02 ROADWAY\AUTOCAD\SHEETS\027201-AD.DWG
LAYOUT NAME - 03
PLOT DATE : 10/29/2024 11:54 AM PLOT BY : GUILLAMA, TINA PLOT NAME : PLOT SCALE : 1 IN:200 FT
WISDOT/CADDS SHEET 44

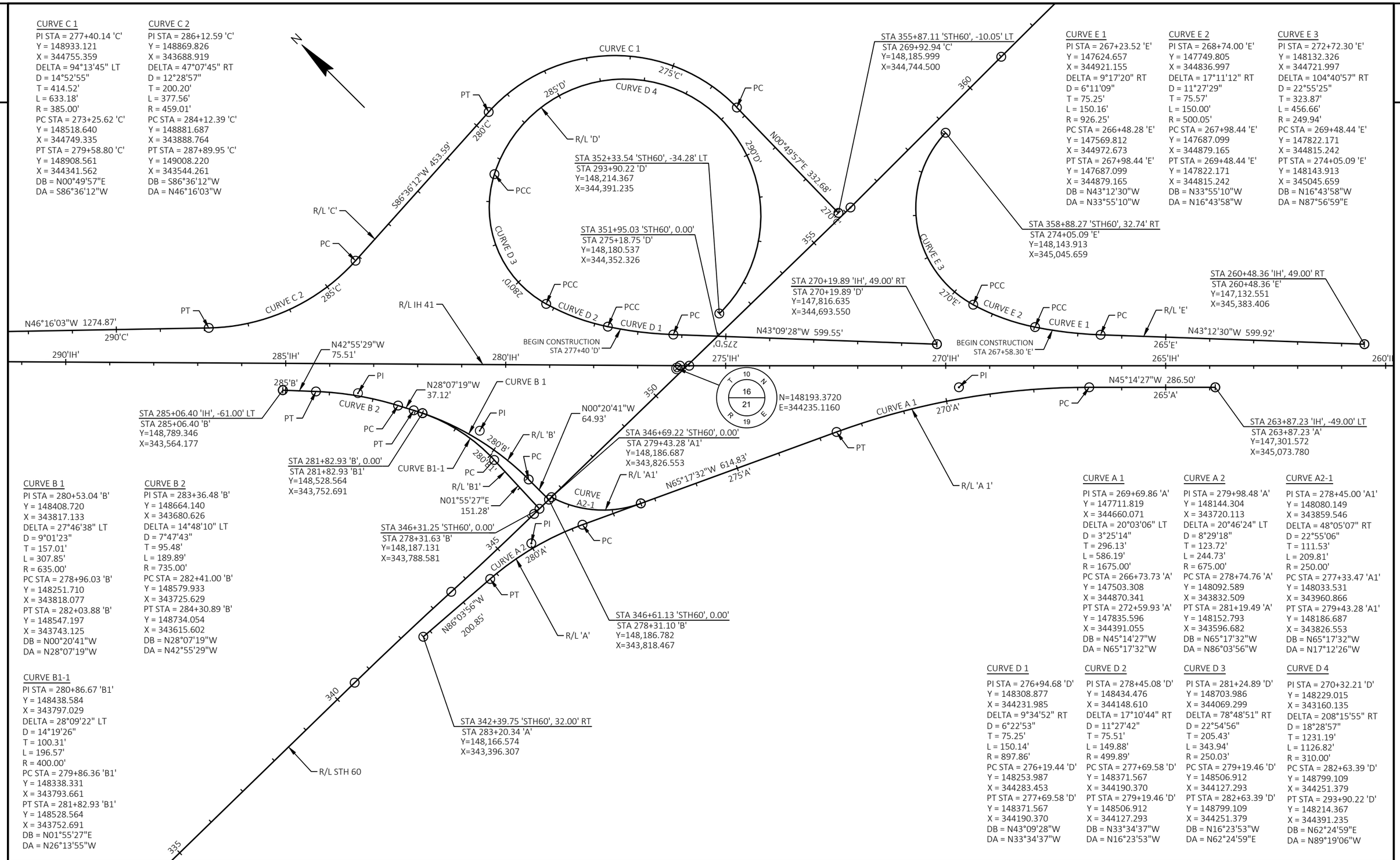
2





PROJECT NO: 2310-09-71	HWY: STH 60	COUNTY: WASHINGTON	ALIGNMENT PLAN - IH 41	SHEET 201	E

2



CURVE C 1
PI STA = 277+40.14 'C'
Y = 148933.121
X = 344755.359
DELTA = 94°13'45" LT
D = 14°52'55"
T = 414.52'
L = 633.18'
R = 385.00'
PC STA = 273+25.62 'C'
Y = 148518.640
X = 344749.335
PT STA = 279+58.80 'C'
Y = 148908.561
X = 344341.562
DB = N00°49'57"E
DA = S86°36'12"W

CURVE C 2
PI STA = 286+12.59 'C'
Y = 148869.826
X = 343688.919
DELTA = 47°07'45" RT
D = 12°28'57"
T = 200.20'
L = 377.56'
R = 459.01'
PC STA = 284+12.39 'C'
Y = 148881.687
X = 343888.764
PT STA = 287+89.95 'C'
Y = 149008.220
X = 343544.261
DB = S86°36'12"W
DA = N46°16'03"W

STA 355+87.11 'STH60', -10.05' LT
STA 269+92.94 'C'
Y=148,185.999
X=344,744.500

CURVE E 1
PI STA = 267+23.52 'E'
Y = 147624.657
X = 344921.155
DELTA = 9°17'20" RT
D = 6°11'09"
T = 75.25'
L = 150.16'
R = 926.25'
PC STA = 266+48.28 'E'
Y = 147569.812
X = 344972.673
PT STA = 267+98.44 'E'
Y = 147687.099
X = 344879.165
DB = N43°12'30"W
DA = N33°55'10"W

CURVE E 2
PI STA = 268+74.00 'E'
Y = 147749.805
X = 344836.997
DELTA = 17°11'12" RT
D = 11°27'29"
T = 75.57'
L = 150.00'
R = 500.05'
PC STA = 267+98.44 'E'
Y = 147687.099
Y = 147822.171
X = 344815.242
DB = N33°55'10"W
DA = N16°43'58"W

CURVE E 3
PI STA = 272+72.30 'E'
Y = 148132.326
X = 344721.997
DELTA = 104°40'57" RT
D = 22°55'25"
T = 323.87'
L = 456.66'
R = 249.94'
PC STA = 269+48.44 'E'
Y = 147822.171
X = 344815.242
PT STA = 274+05.09 'E'
Y = 148143.913
X = 345045.659
DB = N16°43'58"W
DA = N87°56'59"E

STA 358+88.27 'STH60', 32.74' RT
STA 274+05.09 'E'
Y=148,143.913
X=345,045.659

STA 260+48.36 'IH', 49.00' RT
STA 260+48.36 'E'
Y=147,132.551
X=345,383.406

STA 270+19.89 'IH', 49.00' RT
STA 270+19.89 'D'
Y=147,816.635
X=344,693.550

STA 352+33.54 'STH60', -34.28' LT
STA 293+90.22 'D'
Y=148,214.367
X=344,391.235

STA 351+95.03 'STH60', 0.00'
STA 275+18.75 'D'
Y=148,180.537
X=344,352.326

STA 285+06.40 'IH', -61.00' LT
STA 285+06.40 'B'
Y=148,789.346
X=343,564.177

STA 281+82.93 'B', 0.00'
STA 281+82.93 'B1'
Y=148,528.564
X=343,752.691

STA 346+69.22 'STH60', 0.00'
STA 279+43.28 'A1'
Y=148,186.687
X=343,826.553

STA 346+31.25 'STH60', 0.00'
STA 278+31.63 'B'
Y=148,187.131
X=343,788.581

STA 346+61.13 'STH60', 0.00'
STA 278+31.10 'B'
Y=148,186.782
X=343,818.467

STA 342+39.75 'STH60', 32.00' RT
STA 283+20.34 'A'
Y=148,166.574
X=343,396.307

STA 263+87.23 'IH', -49.00' LT
STA 263+87.23 'A'
Y=147,301.572
X=345,073.780

CURVE B 1
PI STA = 280+53.04 'B'
Y = 148408.720
X = 343817.133
DELTA = 27°46'38" LT
D = 9°01'23"
T = 157.01'
L = 307.85'
R = 635.00'
PC STA = 278+96.03 'B'
Y = 148251.710
X = 343818.077
PT STA = 282+03.88 'B'
Y = 148547.197
X = 343743.125
DB = N00°20'41"W
DA = N28°07'19"W

CURVE B 2
PI STA = 283+36.48 'B'
Y = 148664.140
X = 343680.626
DELTA = 14°48'10" LT
D = 7°47'43"
T = 95.48'
L = 189.89'
R = 735.00'
PC STA = 282+41.00 'B'
Y = 148579.933
X = 343725.629
PT STA = 284+30.89 'B'
Y = 148734.054
X = 343615.602
DB = N28°07'19"W
DA = N42°55'29"W

CURVE B1-1
PI STA = 280+86.67 'B1'
Y = 148438.584
X = 343797.029
DELTA = 28°09'22" LT
D = 14°19'26"
T = 100.31'
L = 196.57'
R = 400.00'
PC STA = 279+86.36 'B1'
Y = 148338.331
X = 343793.661
PT STA = 281+82.93 'B1'
Y = 148528.564
X = 343752.691
DB = N01°55'27"E
DA = N26°13'55"W

CURVE A 1
PI STA = 269+86.86 'A'
Y = 147711.819
X = 344660.071
DELTA = 20°03'06" LT
D = 3°25'14"
T = 296.13'
L = 586.19'
R = 1675.00'
PC STA = 266+73.73 'A'
Y = 147503.308
X = 344870.341
PT STA = 272+59.93 'A'
Y = 147835.596
X = 344391.055
DB = N45°14'27"W
DA = N65°17'32"W

CURVE A 2
PI STA = 279+98.48 'A'
Y = 148144.304
X = 343720.113
DELTA = 20°46'24" LT
D = 8°29'18"
T = 123.72'
L = 244.73'
R = 675.00'
PC STA = 278+74.76 'A'
Y = 148092.589
X = 343832.509
PT STA = 281+19.49 'A'
Y = 148152.793
X = 343596.682
DB = N65°17'32"W
DA = N86°03'56"W

CURVE A2-1
PI STA = 278+45.00 'A1'
Y = 148080.149
X = 343859.546
DELTA = 48°05'07" RT
D = 22°55'06"
T = 111.53'
L = 209.81'
R = 250.00'
PC STA = 277+33.47 'A1'
Y = 148033.531
X = 343960.866
PT STA = 279+43.28 'A1'
Y = 148186.687
X = 343826.553
DB = N65°17'32"W
DA = N17°12'26"W

CURVE D 1
PI STA = 276+94.68 'D'
Y = 148308.877
X = 344231.985
DELTA = 9°34'52" RT
D = 6°22'53"
T = 75.25'
L = 150.14'
R = 897.86'
PC STA = 276+19.44 'D'
Y = 148253.987
X = 344283.453
PT STA = 277+69.58 'D'
Y = 148371.567
X = 344190.370
DB = N43°09'28"W
DA = N33°34'37"W

CURVE D 2
PI STA = 278+45.08 'D'
Y = 148434.476
X = 344148.610
DELTA = 17°10'44" RT
D = 11°27'42"
T = 75.51'
L = 149.88'
R = 499.89'
PC STA = 277+69.58 'D'
Y = 148371.567
X = 344190.370
PT STA = 279+19.46 'D'
Y = 148506.912
X = 344127.293
DB = N33°34'37"W
DA = N16°23'53"W

CURVE D 3
PI STA = 281+24.89 'D'
Y = 148703.986
X = 344069.299
DELTA = 78°48'51" RT
D = 22°54'56"
T = 205.43'
L = 343.94'
R = 250.03'
PC STA = 279+19.46 'D'
Y = 148506.912
X = 344127.293
PT STA = 282+63.39 'D'
Y = 148799.109
X = 344251.379
DB = N16°23'53"W
DA = N62°24'59"E

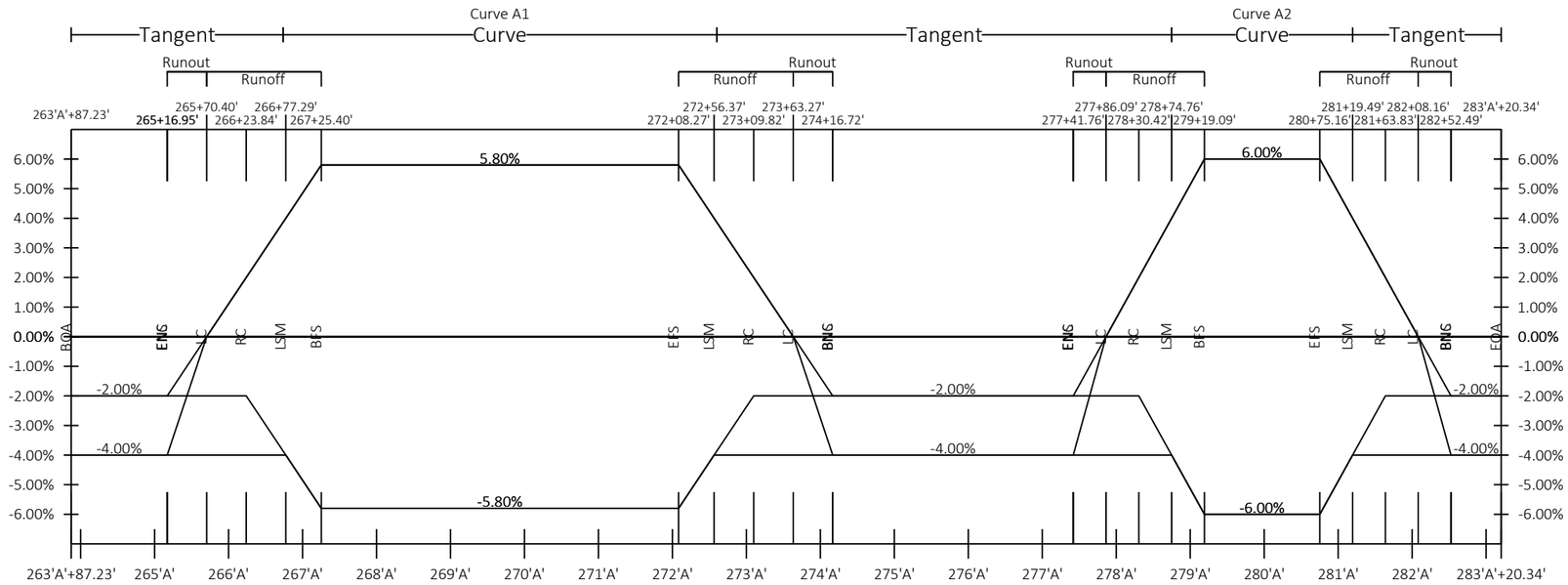
CURVE D 4
PI STA = 270+32.21 'D'
Y = 148229.015
X = 343160.135
DELTA = 208°15'55" RT
D = 18°28'57"
T = 1231.19'
L = 1126.82'
R = 310.00'
PC STA = 282+63.39 'D'
Y = 148799.109
X = 344251.379
PT STA = 293+90.22 'D'
Y = 148214.367
X = 344391.235
DB = N62°24'59"E
DA = N89°19'06"W

PROJECT NO: 2310-09-71	HWY: STH 60	COUNTY: WASHINGTON	ALIGNMENT PLAN - RAMPS	SHEET 202	E

RAMP A SUPERELEVATION TABLE

Curve	Description	Station	Left Shoulder	Left Lane	Right Lane	Right Shoulder
	Begin Alignment	263'A'+87.23	-4.00%	-2.00%	N/A	N/A
	Begin Construction	266'A'+23.84	-4.00%	-2.00%	N/A	N/A
A1	Low Shoulder Match	266'A'+77.29	-4.00%	-4.00%	N/A	N/A
A1	Begin Full Super	267'A'+25.40	-5.80%	-5.80%	5.80%	5.80%
A1	End Full Super	272'A'+08.27	-5.80%	-5.80%	5.80%	5.80%
A1	Low Shoulder Match	272'A'+56.37	-4.00%	-4.00%	4.00%	4.00%
A1	Reverse Crown	273'A'+09.82	-4.00%	-2.00%	2.00%	2.00%
A1	Level Crown	273'A'+63.27	-4.00%	-2.00%	0.00%	0.00%
A1	Begin Normal Crown	274'A'+16.72	-4.00%	-2.00%	-2.00%	-4.00%
A2	End Normal Crown	277'A'+41.76	-4.00%	-2.00%	N/A	N/A
A2	Low Shoulder Match	278'A'+74.76	-4.00%	-4.00%	N/A	N/A
A2	Begin Full Super	279'A'+19.09	-6.00%	-6.00%	N/A	N/A
A2	End Full Super	280'A'+75.16	-6.00%	-6.00%	N/A	N/A
A2	Low Shoulder Match	281'A'+19.49	-4.00%	-4.00%	N/A	N/A
A2	Begin Normal Crown	281'A'+63.83	-4.00%	-2.00%	N/A	N/A
	End Construction	282'A'+31.09	-4.00%	-2.00%	N/A	N/A
	End Alignment	283'A'+20.34	-4.00%	-2.00%	N/A	N/A

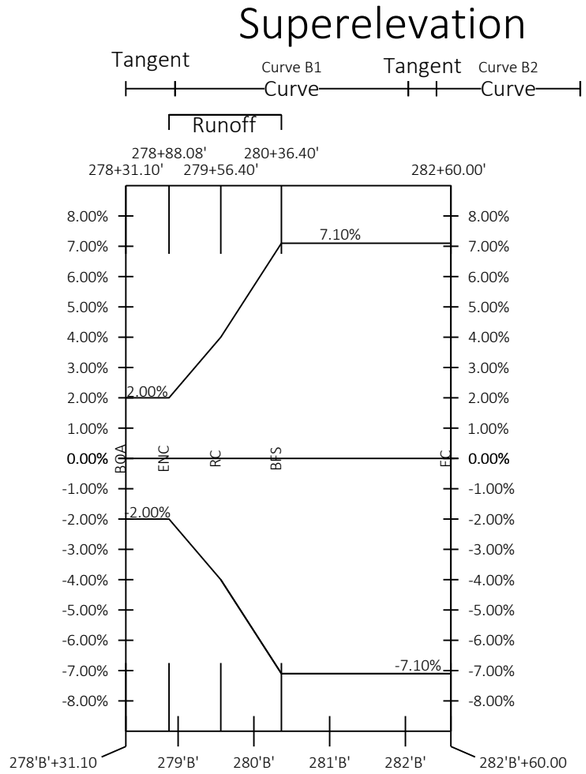
Ramp A Superelevation



PROJECT NO: 2310-09-71	HWY: STH 60	COUNTY: WASHINGTON	ALIGNMENT PLAN - RAMP A SUPERELEVATION TABLE/DIAGRAM	SHEET 203	E

RAMP B SUPERELEVATION TABLE

Curve	Station	Description	Left Shoulder	Left Lane	Right Lane	Right Shoulder
	278'B'+31.10	Begin Alignment	N/A	-2.00%	2.00%	N/A
	278'B'+73.57	Begin Construction	N/A	-2.00%	2.00%	N/A
B1	278'B'+88.08	End Normal Crown	-4.00%	-2.00%	2.00%	N/A
B1	279'B'+56.40	Reverse Crown	-4.00%	-4.00%	4.00%	-3.00%
B1	280'B'+36.40	Begin Full Super	-7.10%	-7.10%	7.10%	7.10%
B2	282'B'+60.00	End Construction	-7.10%	-7.10%	N/A	7.10%



PROJECT NO: 2310-09-71	HWY: STH 60	COUNTY: WASHINGTON	ALIGNMENT PLAN - RAMP B SUPERELEVATION TABLE/DIAGRAM	SHEET 204	E

2

2

CP 204
BM CHIS IN 27" RCCP
STA. 280+1.75 'D', -39.53' LT
N 148,590.198
E 344,077.785
ELEV. 1,100.218

CP 203
BM RR SPIKE E FACE PPOL 01-15993180
STA. 345+59.61', 216.438' LT
STA. 280'B PR'+72.33', -75.73' LT
N 148,404.550
E 343,720.897
ELEV. 1,113.348

CP 96234
CP FENO
STA. 347+31.73', 55.976' LT
N 148,241.928
E 343,889.712
ELEV. 1,118.276

CP 95981
BM ALUM DISK
STA. 349+86.66', 45.717' RT
N 148,137.260
E 344,143.435
ELEV. 1128.130

CP 96804
CP FENO
STA. 338+16.18', 72.134' RT
N 148,132.497
E 342,973.032
ELEV. 1,127.768

CP 6219
NGSAI6219
STA. 344+92.17', 165.633' RT
N 148,024.075
E 343645.172
ELEV. 1,113.620

N

IH 41 NB
IH 41 SB
RAMP B PR (SB EXIT RAMP)
RAMP D (NB EXIT RAMP)
RAMP A (SB ENTRANCE RAMP)
STH 60
282'IH'
280'IH'
278'IH'
280'D'
278'D'
282'A'
280'A'
278'A'
276'A'
336
338
340
342
344
346
348
350
550'A'
552'A'
556'A'
558'A'
560'A'

MATCH LINE 350+50

PROJECT NO: 2310-09-71	HWY: STH 60	COUNTY: WASHINGTON	SURVEY CONTROL	SHEET 205	E

FILE NAME : K:\195704_STH 60 AND IH 41 INTERSECTION\3.0 DELIVERABLES\3.02 ROADWAY\AUTOCAD\SHEETS\027301-CP.DWG
LAYOUT NAME - 01

PLOT DATE : 12/18/2025 4:22 PM PLOT BY : OLSEN, CASSIE PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

2

N

CP 100
CP SET FENO F1000SPK
STA. 272'C'+54.03', 127.502 RT
N 148,445.205
E 344,875.783
ELEV. 1106.696

CONC MON ALUM DOT CAP
STA. 350+77.69', 11.453 LT
N 148,192.431
E 344,235.210
ELEV. 1127.077

CP 200
BM CHIS IN 18" RCCP
STA. 356+61.39', -117.507 LT
STA. 271'C'+01.30', 72.144 RT
N 148,293.301
E 344,818.211
ELEV. 1,101.082

CP 95490
CP FENO
STA. 356+55.58', 61.131 RT
N 148,114.642
E 344,813.078
ELEV. 1120.990

CP 101
CP SET FENO F1000SPK
STA. 269'E'+45.01', 154.540' RT
N 147,864.399
E 344,963.927
ELEV. 1091.454

CP 201
BM CHIS IN 30 IN RCCP
STA. 268'E'+99.98', 25.217' RT
N 147,786.080
E 344,854.749
ELEV. 1092.711

MATCH LINE 350+50

RAMP D (NB EXIT RAMP)

RAMP C (NB ENTRANCE RAMP)

RAMP E (NB EXIT RAMP)

STH 60

IH 41 SB

IH 41 SB

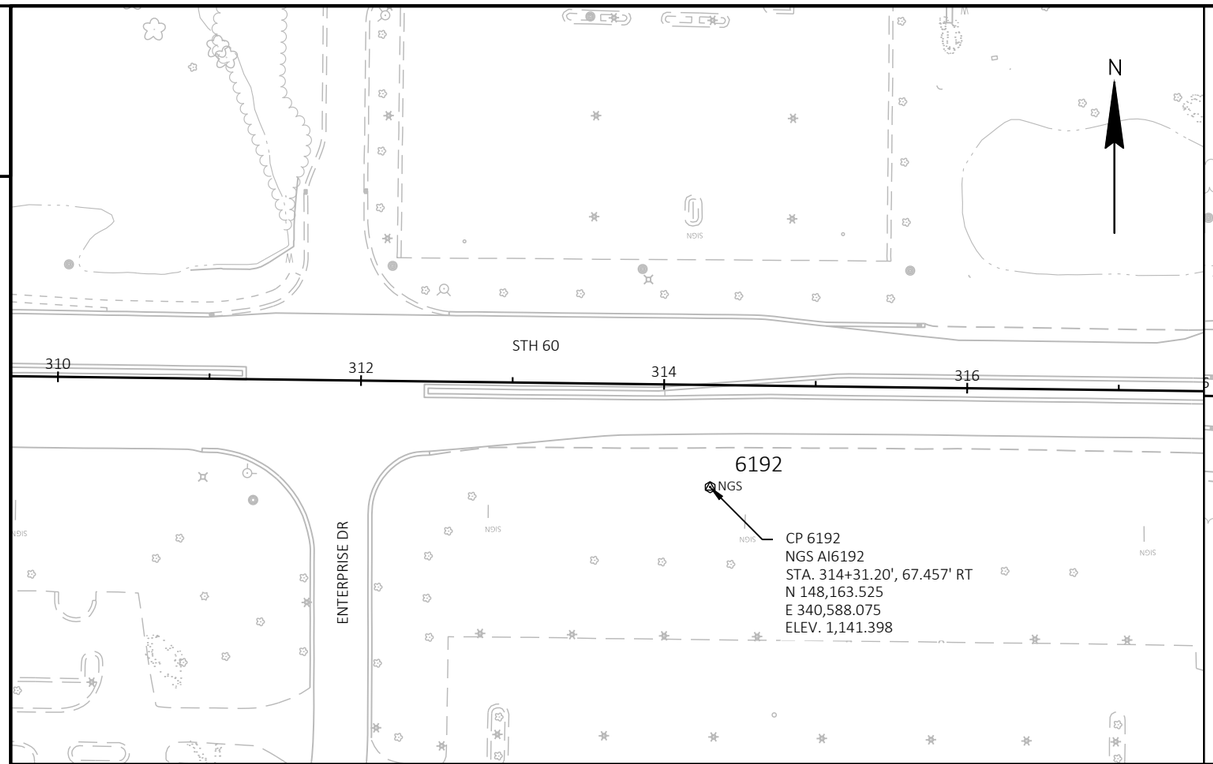
PROJECT NO: 2310-09-71	HWY: STH 60	COUNTY: WASHINGTON	SURVEY CONTROL	SHEET 206	E

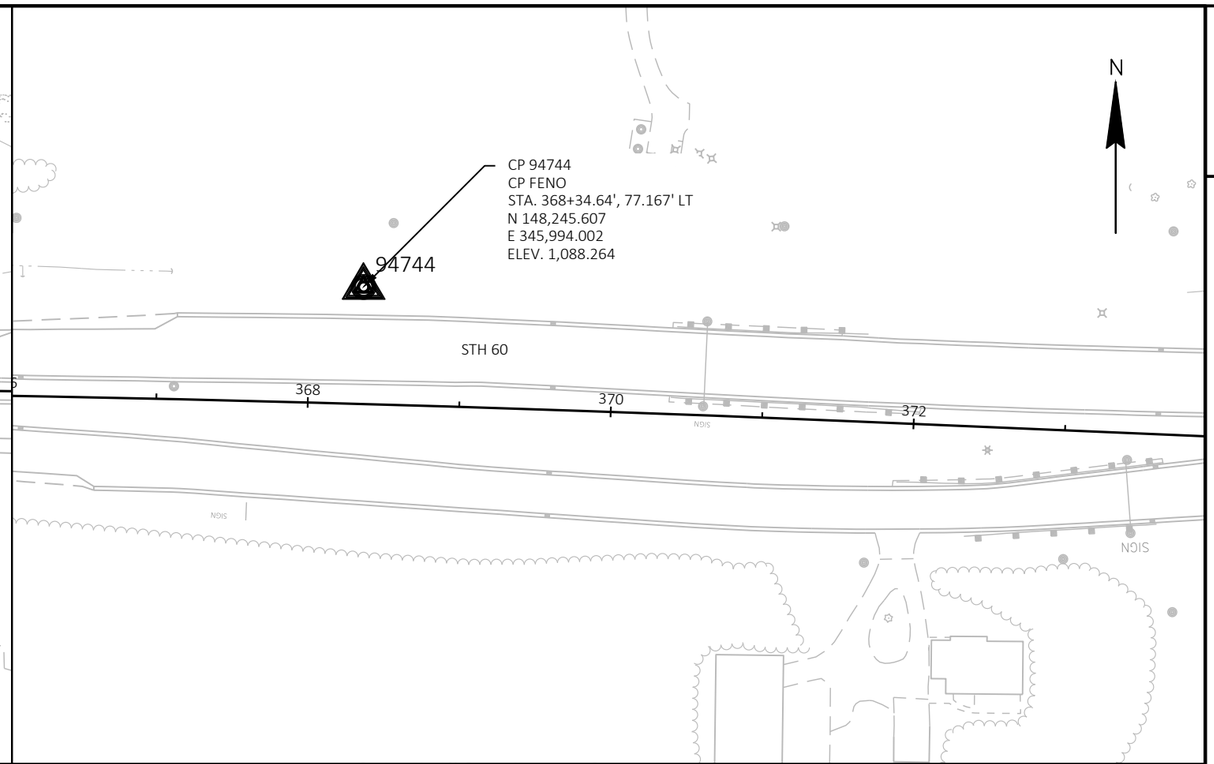
FILE NAME : K:\195704_STH 60 AND IH 41 INTERSECTION\3.0 DELIVERABLES\3.02 ROADWAY\AUTOCAD\SHEETS\027301-CP.DWG
LAYOUT NAME - 02

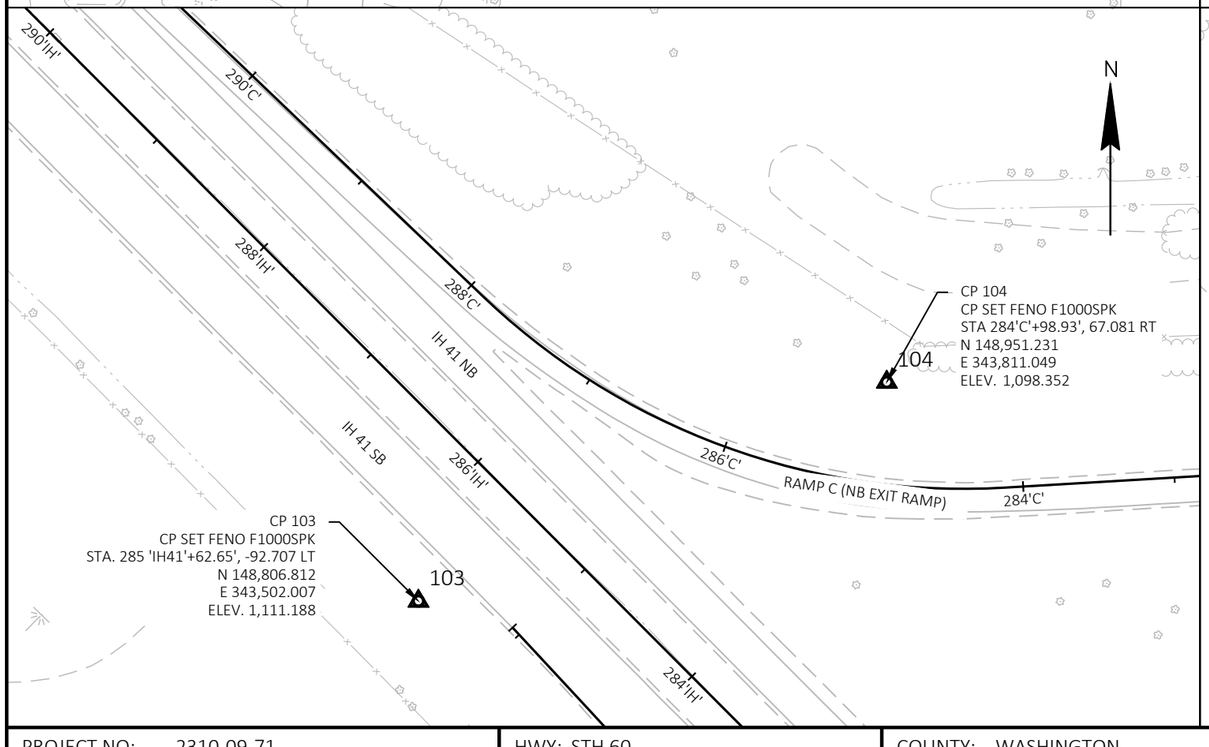
PLOT DATE : 12/18/2025 4:24 PM PLOT BY : OLSEN, CASSIE PLOT NAME : PLOT SCALE : 1 IN:100 FT

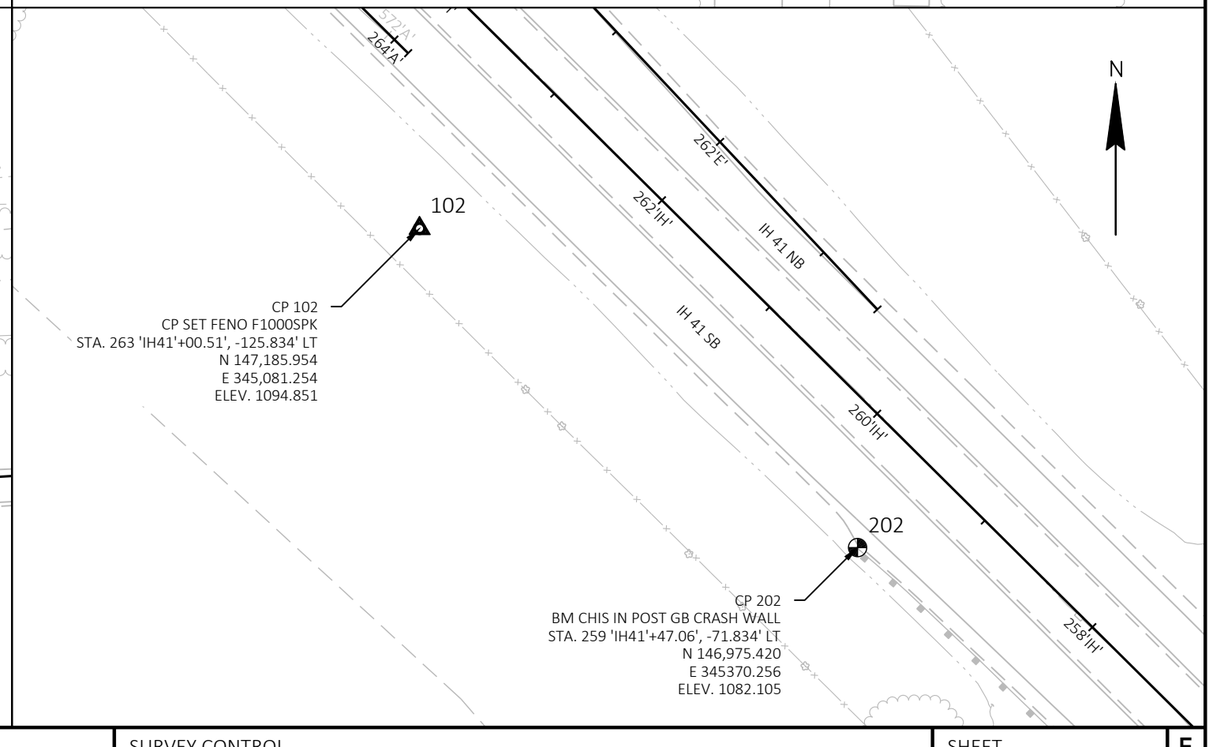
WISDOT/CADDS SHEET 42

2









PROJECT NO: 2310-09-71	HWY: STH 60	COUNTY: WASHINGTON	SURVEY CONTROL	SHEET 207	E

Estimate Of Quantities

2310-09-71

Line	Item	Item Description	Unit	Total	Qty
0002	108.4400	CPM Progress Schedule	EACH	1.000	1.000
0004	201.0205	Grubbing	STA	9.000	9.000
0006	203.0100	Removing Small Pipe Culverts	EACH	2.000	2.000
0008	203.0220	Removing Structure (structure) .01 B-66-103	EACH	1.000	1.000
0010	203.0220	Removing Structure (structure) .02 B-66-102	EACH	1.000	1.000
0012	204.0100	Removing Concrete Pavement	SY	386.000	386.000
0014	204.0109.S	Removing Concrete Surface Partial Depth	SF	3,474.000	3,474.000
0016	204.0115	Removing Asphaltic Surface Butt Joints	SY	146.000	146.000
0018	204.0120	Removing Asphaltic Surface Milling	SY	25,966.000	25,966.000
0020	204.0150	Removing Curb & Gutter	LF	951.000	951.000
0022	204.0155	Removing Concrete Sidewalk	SY	404.000	404.000
0024	204.0165	Removing Guardrail	LF	218.000	218.000
0026	204.0180	Removing Delineators and Markers	EACH	44.000	44.000
0028	204.0220	Removing Inlets	EACH	3.000	3.000
0030	204.0245	Removing Storm Sewer (size) .01 12-Inch	LF	102.000	102.000
0032	204.0245	Removing Storm Sewer (size) .02 18-Inch	LF	72.000	72.000
0034	204.9060.S	Removing (item description) .01 Removing Apron Endwalls	EACH	1.000	1.000
0036	204.9090.S	Removing (item description) .01 Removing Underdrain	LF	905.000	905.000
0038	205.0100	Excavation Common	CY	21,373.000	21,373.000
0040	206.1001	Excavation for Structures Bridges (structure) .01 B-66-103	EACH	1.000	1.000
0042	208.1100	Select Borrow	CY	250.000	250.000
0044	211.0101	Prepare Foundation for Asphaltic Paving (project) .01 2310-09-71	EACH	1.000	1.000
0046	211.0400	Prepare Foundation for Asphaltic Shoulders	STA	126.000	126.000
0048	213.0100	Finishing Roadway (project) .01 2310-09-71	EACH	1.000	1.000
0050	214.0100	Obliterating Old Road	STA	19.000	19.000
0052	305.0110	Base Aggregate Dense 3/4-Inch	TON	1,052.000	1,052.000
0054	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	7,062.000	7,062.000
0056	305.0500	Shaping Shoulders	STA	36.000	36.000
0058	310.0110	Base Aggregate Open-Graded	TON	534.000	534.000
0060	415.0080	Concrete Pavement 8-Inch	SY	69.000	69.000
0062	415.0410	Concrete Pavement Approach Slab	SY	350.000	350.000
0064	450.4000	HMA Cold Weather Paving	TON	132.000	132.000
0066	455.0605	Tack Coat	GAL	5,369.000	5,369.000
0068	460.2000	Incentive Density HMA Pavement	DOL	5,460.000	5,460.000
0070	460.5223	HMA Pavement 3 LT 58-28 S	TON	264.000	264.000
0072	460.5224	HMA Pavement 4 LT 58-28 S	TON	264.000	264.000
0074	460.6423	HMA Pavement 3 MT 58-28 H	TON	5,067.000	5,067.000
0076	460.6425	HMA Pavement 5 MT 58-28 H	TON	2,862.000	2,862.000
0078	465.0125	Asphaltic Surface Temporary	TON	63.000	63.000
0080	465.0510	Asphaltic Rumble Strips, Shoulder Divided Roadway	LF	2,729.000	2,729.000
0082	495.1000.S	Cold Patch	TON	10.000	10.000
0084	502.0100	Concrete Masonry Bridges	CY	262.000	262.000
0086	502.0180.S	Bridge Deck Crack Sealing	LF	830.000	830.000
0088	502.2000	Compression Joint Sealer Preformed Elastomeric (width) .01 2 1/4-Inch	LF	324.000	324.000
0090	502.3101	Expansion Device	LF	262.000	262.000
0092	502.3200	Protective Surface Treatment	SY	410.000	410.000
0094	502.3205	Pigmented Surface Sealer Reseal	SY	127.000	127.000
0096	502.3210	Pigmented Surface Sealer	SY	6.000	6.000
0098	502.4204	Adhesive Anchors No. 4 Bar	EACH	434.000	434.000

2310-09-71

Line	Item	Item Description	Unit	Total	Qty
0100	502.4205	Adhesive Anchors No. 5 Bar	EACH	284.000	284.000
0102	502.4207	Adhesive Anchors No. 7 Bar	EACH	24.000	24.000
0104	505.0400	Bar Steel Reinforcement HS Structures	LB	1,090.000	1,090.000
0106	505.0600	Bar Steel Reinforcement HS Coated Structures	LB	50,310.000	50,310.000
0108	506.0105	Structural Steel Carbon	LB	8,810.000	8,810.000
0110	506.0605	Structural Steel HS	LB	99,640.000	99,640.000
0112	506.3015	Welded Stud Shear Connectors 7/8x6-Inch	EACH	600.000	600.000
0114	506.5000	Bearing Assemblies Fixed (structure) .01 B-66-103	EACH	1.000	1.000
0116	506.6000	Bearing Assemblies Expansion (structure) .01 B-66-103	EACH	2.000	2.000
0118	509.0301	Preparation Decks Type 1	SY	33.000	33.000
0120	509.0302	Preparation Decks Type 2	SY	14.000	14.000
0122	509.0310.S	Sawing Pavement Deck Preparation Areas	LF	330.000	330.000
0124	509.1000	Joint Repair	SY	116.000	116.000
0126	509.1500	Concrete Surface Repair	SF	17.000	17.000
0128	509.2100.S	Concrete Masonry Deck Repair	CY	4.000	4.000
0130	509.9015.S	Removing Polymer Overlay (structure) .01 B-66-103	SY	1,223.000	1,223.000
0132	511.1200	Temporary Shoring (structure) .01 B-66-103	SF	150.000	150.000
0134	517.0601	Painting Epoxy System (structure) .01 B-66-103	EACH	1.000	1.000
0136	517.0901.S	Preparation and Coating of Top Flanges (structure) .01 B-66-103	EACH	1.000	1.000
0138	517.1801.S	Structure Repainting Recycled Abrasive (structure) .01 B-66-103	EACH	1.000	1.000
0140	517.1801.S	Structure Repainting Recycled Abrasive (structure) .02 B-66-102	EACH	1.000	1.000
0142	517.4501.S	Negative Pressure Containment and Collection of Waste Materials (structure) .01 B-66-103	EACH	1.000	1.000
0144	517.4501.S	Negative Pressure Containment and Collection of Waste Materials (structure) .02 B-66-102	EACH	1.000	1.000
0146	517.6001.S	Portable Decontamination Facility	EACH	2.000	2.000
0148	522.1012	Apron Endwalls for Culvert Pipe Reinforced Concrete 12-Inch	EACH	2.000	2.000
0150	522.1042	Apron Endwalls for Culvert Pipe Reinforced Concrete 42-Inch	EACH	1.000	1.000
0152	522.1048	Apron Endwalls for Culvert Pipe Reinforced Concrete 48-Inch	EACH	1.000	1.000
0154	522.2343	Culvert Pipe Reinforced Concrete Horizontal Elliptical Class HE-III 43x68-Inch	LF	115.000	115.000
0156	522.2643	Apron Endwalls for Culvert Pipe Reinforced Concrete Horizontal Elliptical 43x68-Inch	EACH	4.000	4.000
0158	601.0409	Concrete Curb & Gutter 30-Inch Type A	LF	327.000	327.000
0160	601.0411	Concrete Curb & Gutter 30-Inch Type D	LF	441.000	441.000
0162	601.0557	Concrete Curb & Gutter 6-Inch Sloped 36-Inch Type D	LF	615.000	615.000
0164	601.0584	Concrete Curb & Gutter 4-Inch Sloped 30-Inch Type TBT	LF	36.000	36.000
0166	601.0586	Concrete Curb & Gutter 4-Inch Sloped 30-Inch Type TBTT	LF	16.000	16.000
0168	602.0410	Concrete Sidewalk 5-Inch	SF	2,092.000	2,092.000
0170	602.3010	Concrete Surface Drains	CY	3.000	3.000
0172	603.8000	Concrete Barrier Temporary Precast Delivered	LF	6,054.000	6,054.000
0174	603.8125	Concrete Barrier Temporary Precast Installed	LF	8,129.000	8,129.000
0176	603.8500	Anchoring Concrete Barrier Temporary Precast	LF	175.000	175.000
0178	604.0500	Slope Paving Crushed Aggregate	SY	245.000	245.000
0180	604.9015.S	Reseal Crushed Aggregate Slope Paving	SY	695.000	695.000
0182	606.0200	Riprap Medium	CY	75.000	75.000
0184	608.0242	Storm Sewer Pipe Reinforced Concrete Class II 42-Inch	LF	152.000	152.000
0186	608.0248	Storm Sewer Pipe Reinforced Concrete Class II 48-Inch	LF	39.000	39.000
0188	608.0312	Storm Sewer Pipe Reinforced Concrete Class III 12-Inch	LF	129.000	129.000
0190	608.0342	Storm Sewer Pipe Reinforced Concrete Class III 42-Inch	LF	115.000	115.000
0192	608.0448	Storm Sewer Pipe Reinforced Concrete Class IV 48-Inch	LF	236.000	236.000

2310-09-71

Line	Item	Item Description	Unit	Total	Qty
0194	608.3012	Storm Sewer Pipe Class III-A 12-Inch	LF	27.000	27.000
0196	611.0430	Reconstructing Inlets	EACH	1.000	1.000
0198	611.0530	Manhole Covers Type J	EACH	4.000	4.000
0200	611.0612	Inlet Covers Type C	EACH	1.000	1.000
0202	611.0642	Inlet Covers Type MS	EACH	1.000	1.000
0204	611.0654	Inlet Covers Type V	EACH	1.000	1.000
0206	611.2003	Manholes 3-FT Diameter	EACH	1.000	1.000
0208	611.2006	Manholes 6-FT Diameter	EACH	2.000	2.000
0210	611.2007	Manholes 7-FT Diameter	EACH	2.000	2.000
0212	611.3225	Inlets 2x2.5-FT	EACH	1.000	1.000
0214	611.3901	Inlets Median 1 Grate	EACH	1.000	1.000
0216	611.8115	Adjusting Inlet Covers	EACH	2.000	2.000
0218	611.8120.S	Cover Plates Temporary	EACH	3.000	3.000
0220	612.0404	Pipe Underdrain Wrapped 4-Inch	LF	1,070.000	1,070.000
0222	614.0220	Steel Thrie Beam Bullnose Terminal	EACH	1.000	1.000
0224	614.0230	Steel Thrie Beam	LF	525.000	525.000
0226	614.0905	Crash Cushions Temporary	EACH	7.000	7.000
0228	614.2300	MGS Guardrail 3	LF	138.000	138.000
0230	614.2500	MGS Thrie Beam Transition	LF	80.000	80.000
0232	614.2610	MGS Guardrail Terminal EAT	EACH	2.000	2.000
0234	616.0100	Fence Woven Wire (height) .01 4-FT	LF	383.000	383.000
0236	619.1000	Mobilization	EACH	1.000	1.000
0238	620.0100	Concrete Corrugated Median	SF	4,123.000	4,123.000
0240	620.0300	Concrete Median Sloped Nose	SF	176.000	176.000
0242	623.0200	Dust Control Surface Treatment	SY	8,267.000	8,267.000
0244	624.0100	Water	MGAL	241.000	241.000
0246	625.0100	Topsoil	SY	30,568.000	30,568.000
0248	627.0200	Mulching	SY	30,568.000	30,568.000
0250	628.1504	Silt Fence	LF	2,022.000	2,022.000
0252	628.1520	Silt Fence Maintenance	LF	12,128.000	12,128.000
0254	628.1905	Mobilizations Erosion Control	EACH	8.000	8.000
0256	628.1910	Mobilizations Emergency Erosion Control	EACH	7.000	7.000
0258	628.7005	Inlet Protection Type A	EACH	4.000	4.000
0260	628.7020	Inlet Protection Type D	EACH	20.000	20.000
0262	628.7504	Temporary Ditch Checks	LF	1,763.000	1,763.000
0264	628.7555	Culvert Pipe Checks	EACH	8.000	8.000
0266	628.7560	Tracking Pads	EACH	4.000	4.000
0268	629.0210	Fertilizer Type B	CWT	25.000	25.000
0270	630.0130	Seeding Mixture No. 30	LB	1,377.000	1,377.000
0272	630.0500	Seed Water	MGAL	688.000	688.000
0274	633.0100	Delineator Posts Steel	EACH	80.000	80.000
0276	633.0500	Delineator Reflectors	EACH	89.000	89.000
0278	633.5200	Markers Culvert End	EACH	10.000	10.000
0280	634.0618	Posts Wood 4x6-Inch X 18-FT	EACH	95.000	95.000
0282	634.0622	Posts Wood 4x6-Inch X 22-FT	EACH	24.000	24.000
0284	637.1220	Signs Type I Reflective SH	SF	47.000	47.000
0286	637.2210	Signs Type II Reflective H	SF	1,115.000	1,115.000
0288	637.2215	Signs Type II Reflective H Folding	SF	59.000	59.000
0290	637.2230	Signs Type II Reflective F	SF	383.000	383.000

2310-09-71

Line	Item	Item Description	Unit	Total	Qty
0292	638.2101	Moving Signs Type I	EACH	3.000	3.000
0294	638.2102	Moving Signs Type II	EACH	3.000	3.000
0296	638.2601	Removing Signs Type I	EACH	3.000	3.000
0298	638.2602	Removing Signs Type II	EACH	74.000	74.000
0300	638.3000	Removing Small Sign Supports	EACH	88.000	88.000
0302	643.0300	Traffic Control Drums	DAY	44,830.000	44,830.000
0304	643.0420	Traffic Control Barricades Type III	DAY	3,200.000	3,200.000
0306	643.0705	Traffic Control Warning Lights Type A	DAY	4,130.000	4,130.000
0308	643.0715	Traffic Control Warning Lights Type C	DAY	8,020.000	8,020.000
0310	643.0810	Traffic Control Connected Arrow Boards	DAY	430.000	430.000
0312	643.0900	Traffic Control Signs	DAY	54,210.000	54,210.000
0314	643.0910	Traffic Control Covering Signs Type I	EACH	2.000	2.000
0316	643.0920	Traffic Control Covering Signs Type II	EACH	190.000	190.000
0318	643.1000	Traffic Control Signs Fixed Message	SF	613.000	613.000
0320	643.1050	Traffic Control Signs PCMS	DAY	400.000	400.000
0322	643.1205.S	Basic Traffic Queue Warning System	DAY	162.000	162.000
0324	643.1220	Traffic Control Connected Work Zone Start and End Location Markers	DAY	560.000	560.000
0326	643.3165	Temporary Marking Line Paint 6-Inch	LF	48,263.000	48,263.000
0328	643.3180	Temporary Marking Line Removable Tape 6-Inch	LF	20,482.000	20,482.000
0330	643.3265	Temporary Marking Line Paint 10-Inch	LF	6,217.000	6,217.000
0332	643.3280	Temporary Marking Line Removable Tape 10-Inch	LF	488.000	488.000
0334	643.4100	Traffic Control Interim Lane Closure	EACH	260.000	260.000
0336	643.5000	Traffic Control	EACH	1.000	1.000
0338	645.0120	Geotextile Type HR	SY	287.000	287.000
0340	645.0140	Geotextile Type SAS	SY	1,190.000	1,190.000
0342	646.2020	Marking Line Epoxy 6-Inch	LF	684.000	684.000
0344	646.2025	Marking Line Grooved Black Epoxy 6-Inch	LF	1,282.000	1,282.000
0346	646.2040	Marking Line Grooved Wet Ref Epoxy 6-Inch	LF	33,348.000	33,348.000
0348	646.2041.S	Marking Replace Line Wet Reflective Epoxy 6-inch	LF	1,228.000	1,228.000
0350	646.4020	Marking Line Epoxy 10-Inch	LF	410.000	410.000
0352	646.4025	Marking Line Grooved Black Epoxy 10-Inch	LF	190.000	190.000
0354	646.4040	Marking Line Grooved Wet Ref Epoxy 10-Inch	LF	4,068.000	4,068.000
0356	646.4041.S	Marking Replace Line Wet Reflective Epoxy 10-inch	LF	2,861.000	2,861.000
0358	646.5020	Marking Arrow Epoxy	EACH	16.000	16.000
0360	646.5120	Marking Word Epoxy	EACH	5.000	5.000
0362	646.5520	Marking Outfall Epoxy	EACH	6.000	6.000
0364	646.6120	Marking Stop Line Epoxy 18-Inch	LF	181.000	181.000
0366	646.7120	Marking Diagonal Epoxy 12-Inch	LF	238.000	238.000
0368	646.7220	Marking Chevron Epoxy 24-Inch	LF	389.000	389.000
0370	646.8020	Marking Corrugated Median Epoxy	SF	440.000	440.000
0372	646.8120	Marking Curb Epoxy	LF	71.000	71.000
0374	646.8220	Marking Island Nose Epoxy	EACH	4.000	4.000
0376	646.9000	Marking Removal Line 4-Inch	LF	2,851.000	2,851.000
0378	646.9055	Marking Removal Line Grooved Contrast Permanent Tape 4-Inch	LF	1,228.000	1,228.000
0380	646.9100	Marking Removal Line 8-Inch	LF	1,755.000	1,755.000
0382	646.9150	Marking Removal Line Grooved Permanent Tape 8-Inch	LF	3,469.000	3,469.000
0384	646.9300	Marking Removal Special Marking	EACH	4.000	4.000
0386	652.0225	Conduit Rigid Nonmetallic Schedule 40 2-Inch	LF	732.000	732.000
0388	652.0235	Conduit Rigid Nonmetallic Schedule 40 3-Inch	LF	723.000	723.000

2310-09-71

Line	Item	Item Description	Unit	Total	Qty
0390	652.0605	Conduit Special 2-Inch	LF	35.000	35.000
0392	652.0615	Conduit Special 3-Inch	LF	737.000	737.000
0394	652.0800	Conduit Loop Detector	LF	964.000	964.000
0396	653.0135	Pull Boxes Steel 24x36-Inch	EACH	3.000	3.000
0398	653.0140	Pull Boxes Steel 24x42-Inch	EACH	12.000	12.000
0400	654.0101	Concrete Bases Type 1	EACH	5.000	5.000
0402	654.0102	Concrete Bases Type 2	EACH	2.000	2.000
0404	654.0110	Concrete Bases Type 10	EACH	1.000	1.000
0406	654.0120	Concrete Bases Type 10-Special	EACH	2.000	2.000
0408	654.0217	Concrete Control Cabinet Bases Type 9 Special	EACH	1.000	1.000
0410	655.0230	Cable Traffic Signal 5-14 AWG	LF	474.000	474.000
0412	655.0240	Cable Traffic Signal 7-14 AWG	LF	1,174.000	1,174.000
0414	655.0260	Cable Traffic Signal 12-14 AWG	LF	1,235.000	1,235.000
0416	655.0320	Cable Type UF 2-10 AWG Grounded	LF	1,024.000	1,024.000
0418	655.0515	Electrical Wire Traffic Signals 10 AWG	LF	2,207.000	2,207.000
0420	655.0610	Electrical Wire Lighting 12 AWG	LF	864.000	864.000
0422	655.0700	Loop Detector Lead In Cable	LF	2,857.000	2,857.000
0424	655.0800	Loop Detector Wire	LF	3,402.000	3,402.000
0426	655.0900	Traffic Signal EVP Detector Cable	LF	993.000	993.000
0428	656.0201	Electrical Service Meter Breaker Pedestal (location) .01 Electrical Service Meter Breaker Pedestal IH 41 SB RAMPS & STH 60	EACH	1.000	1.000
0430	657.0100	Pedestal Bases	EACH	5.000	5.000
0432	657.0255	Transformer Bases Breakaway 11 1/2-Inch Bolt Circle	EACH	2.000	2.000
0434	657.0310	Poles Type 3	EACH	2.000	2.000
0436	657.0420	Traffic Signal Standards Aluminum 13-FT	EACH	4.000	4.000
0438	657.0425	Traffic Signal Standards Aluminum 15-FT	EACH	1.000	1.000
0440	657.0609	Luminaire Arms Single Member 4-Inch Clamp 6-FT	EACH	2.000	2.000
0442	658.0173	Traffic Signal Face 3S 12-Inch	EACH	12.000	12.000
0444	658.0174	Traffic Signal Face 4S 12-Inch	EACH	3.000	3.000
0446	658.5070	Signal Mounting Hardware (location) .01 Signal Mounting Hardware (IH 41 SB Ramps & STH 60)	EACH	1.000	1.000
0448	659.1125	Luminaires Utility LED C	EACH	6.000	6.000
0450	690.0150	Sawing Asphalt	LF	5,337.000	5,337.000
0452	690.0250	Sawing Concrete	LF	18.000	18.000
0454	715.0502	Incentive Strength Concrete Structures	DOL	1,572.000	1,572.000
0456	999.2000.S	Installing and Maintaining Bird Deterrent System (station) .01 Station 350+88 WB	EACH	1.000	1.000
0458	999.2000.S	Installing and Maintaining Bird Deterrent System (station) .02 Station 351+09 EB	EACH	1.000	1.000
0460	ASP.1T0A	On-the-Job Training Apprentice at $5.00/HR	HRS	3,200.000	3,200.000
0462	ASP.1T0G	On-the-Job Training Graduate at $5.00/HR	HRS	7,200.000	7,200.000
0464	SPV.0060	Special .01 Install Poles Type 10	EACH	1.000	1.000
0466	SPV.0060	Special .02 Install Poles Type 10 Special	EACH	2.000	2.000
0468	SPV.0060	Special .03 Install Monotube Arms 30-ft	EACH	1.000	1.000
0470	SPV.0060	Special .04 Install Monotube Arms 35-ft Type 9/10 Spec Pole	EACH	1.000	1.000
0472	SPV.0060	Special .05 Install Monotube Arms 40-ft Type 9/10 Spec Pole	EACH	1.000	1.000
0474	SPV.0060	Special .06 Install Luminaire Arms Steel 15-ft	EACH	4.000	4.000
0476	SPV.0060	Special .07 Trnspt & Install State Furn Traffic Signal Cabinet (IH 41 SB Ramps & STH 60)	EACH	1.000	1.000
0478	SPV.0060	Special .08 Trnspt & Install State Furn Radar Detect Sys (IH 41 SB Ramps & STH 60)	EACH	1.000	1.000
0480	SPV.0060	Special .09 Trnspt & Install State Furn Lighting Materials (IH 41 SB Ramps & STH 60)	EACH	1.000	1.000
0482	SPV.0060	Special .10 Trnspt & Install State Furn EVP Heads (IH 41 SB Ramps & STH 60)	EACH	1.000	1.000

2310-09-71

Line	Item	Item Description	Unit	Total	Qty
0484	SPV.0060	Special .11 Micropile Verification Load Test	EACH	1.000	1.000
0486	SPV.0060	Special .12 Micropile Proof Load Test	EACH	1.000	1.000
0488	SPV.0060	Special .13 Traffic Control Close-Open Freeway Entrance Ramp	EACH	41.000	41.000
0490	SPV.0060	Special .14 Traffic Control Full Freeway Closure	EACH	6.000	6.000
0492	SPV.0060	Special .15 Emergency Response to Traffic Incident Involving Concrete Barrier Temporary	EACH	6.000	6.000
0494	SPV.0060	Special .16 Section Corner Monument	EACH	1.000	1.000
0496	SPV.0060	Special .17 Locate and Clean Existing Underdrain Outfalls	EACH	6.000	6.000
0498	SPV.0060	Special .18 Remove, Salvage, and Relocate Barricade Rack	EACH	1.000	1.000
0500	SPV.0060	Special .19 Survey Project 2310-09-71	EACH	1.000	1.000
0502	SPV.0075	Special .01 Pavement Cleanup Project 2310-09-71	HRS	200.000	200.000
0504	SPV.0090	Special .01 9.625-Inch Micropile Foundation	LF	590.000	590.000
0506	SPV.0090	Special .02 Marking Line Epoxy 6-Inch Black Non Grooved	LF	36.000	36.000
0508	SPV.0090	Special .03 Culvert Pipe Reinforced Concrete Horizontal Elliptical Class HE-IV 43X68 in	LF	160.000	160.000
0510	SPV.0090	Special .04 Cleaning Storm Sewer	LF	636.000	636.000
0512	SPV.0135	Special .01 Field Facilities Office Space	MON	7.000	7.000
0514	SPV.0180	Special .01 High Friction Surface Treatment Polymer Overlay	SY	1,605.000	1,605.000
0516	SPV.0180	Special .02 Resin Binder High Friction Surface Treatment	SY	971.000	971.000
0518	SPV.0195	Special .01 Asphaltic Repair	TON	400.000	400.000

GRUBBING

CATEGORY	ROADWAY	STA	TO	STA	LOCATION	201.0205 Grubbing STA	REMARKS
1000	RAMP A	557'AX'+00	-	566'AX'+00	RT	9	Stationing refers to the existing alignment for Ramp A
Contract Total						**9**	

3

REMOVING GUARDRAIL

CATEGORY	ROADWAY	STA	TO	STA	LOCATION	204.0165 Removing Guardrail LF
1000	STH 60	348+88	-	349+73	RT	85
	RAMP D	292'D'+50	-	293'D'+83	RT	133
Contract Total						**218**

REMOVING DELINEATORS

Category	ROADWAY	STA	TO	STA	204.0180 Removing Delineators and Markers EACH	SPV.0060.18 Remove, Salvage, and Relocate Barricade Rack EACH
1000	RAMP A	266'A'+24	-	283'A'+20	9	1
	RAMP B	278'B'+73	-	284'B'+05	3	-
	RAMP C	270'C'+78	-	287'C'+55	6	-
	RAMP D	277'D'+40	-	293'D'+85	18	-
	RAMP E	267'E'+61	-	273'E'+83	8	-
Contract Total					**44**	**1**

REMOVING DRAINAGE ITEMS

CATEGORY	ROADWAY	STA	TO	STA	LOCATION	203.0100 Removing Small Pipe Culverts EACH	204.0220 Removing Inlets EACH	204.0245.01 Removing Storm Sewer 12-Inch LF	204.0245.02 Removing Storm Sewer 18-Inch LF	204.9060.S.01 Removing Apron Endwalls EACH
1000	STH 60	345+24	-	345+60	RT	-	1	60	-	-
		347+75	-	347+77	LT	-	-	-	-	1
		348+71	-	348+77	LT	-	1	42	-	-
		349+67	-	349+68	RT	-	1	-	72	-
	RAMP A EX	561'AX'+96	-	561'AX'+99		1	-	-	-	-
	RAMP B	279'B'+30	-	279'B'+30		1	-	-	-	-
Contract Total						**2**	**3**	**102**	**72**	**1**

REMOVING CONCRETE

CATEGORY	STAGE	ROADWAY	STA	TO	STA	LOCATION	204.0100 Removing Concrete Pavement SY	204.0150 Removing Curb & Gutter LF	204.0155 Removing Concrete Sidewalk SY	204.0109.S Removing Concrete Surface Partial Depth SF	REMARKS
1000	PRE-STAGE	STH 60 EB	345+18	-	346+91	RT	-	-	-	1,404	REMOVE EXISTING CONCRETE CORRUGATED SHOULDERS
		STH 60 WB	353+01	-	355+59	LT	-	-	-	2,070	TO 2-INCHES BELOW ADJACENT PAVEMENT DEPTH
	STAGE 1	STH 60 MEDIAN	347+70	-	349+50	MEDIAN	-	349	181	-	
			352+58	-	353+17	MEDIAN	-	101	83	-	
		RAMP A EX	556'AX'+56	-	557'AX'+25	LT	-	166	92	-	PORK CHOP ISLAND
			557'AX'+65	-	558'AX'+28	LT	-	104	-	-	TURNING RADIUS
		RAMP B	278'B'+79	-	279'B'+19	LT	-	69	-	-	TURNING RADIUS
			278'B'+79	-	279'B'+21	LT	-	109	48	-	PORK CHOP ISLAND
			278'B'+79	-	279'B'+24	RT	-	53	-	-	TURNING RADIUS
	STAGE 2 A/B	STH 60 EB	345+18	-	346+91	RT	156	-	-	-	REMOVE REMAINDER OF CONCRETE CORRUGATED SHLD
	STAGE 2A	STH 60 WB	353+01	-	355+59	LT	230	-	-	-	REMOVE REMAINDER OF CONCRETE CORRUGATED SHLD
Contract Total							**386**	**951**	**404**	**3,474**	

MILLING

CATEGORY	ROADWAY	STA	TO	STA	204.0115 Removing Asphaltic Surface Butt Joints SY	204.0120 Removing Asphaltic Surface Milling SY	REMARKS
1000	STH 60 EB	341+00	-	367+13	56	8,370	BUTT JOINT QTY INCLUDES REMOVAL OF TEMPORARY RAMPS
	STH 60 WB	341+00	-	367+13	42	7,418	BUTT JOINT QTY INCLUDES REMOVAL OF TEMPORARY RAMPS
	IH 41 SB	266'IH'+24	-	270'IH'+86	-	148	
	RAMP C	270'C'+13	-	287'C'+55	16	4,535	BUTT JOINT QTY INCLUDES REMOVAL OF TEMPORARY RAMPS
	RAMP D	277'D'+40	-	293'D'+26	16	3,974	BUTT JOINT QTY INCLUDES REMOVAL OF TEMPORARY RAMPS
	RAMP E	267'E'+61	-	273'E'+28	16	1,521	BUTT JOINT QTY INCLUDES REMOVAL OF TEMPORARY RAMPS
Contract Total					**146**	**25,966**	

REMOVING PIPE UNDERDRAIN

CATEGORY	ROADWAY	STA	TO	STA	204.9090.S.01 Removing Underdrain LF	REMARKS
1000	STH 60 EB	341+00	-	345+25	425	OUTSIDE SHOUDLER, FLOWS EAST, CONNECTED TO INLET
		345+25	-	347+55	230	OUTSIDE SHOUDLER, FLOWS WEST, CONNECTED TO INLET
	STH 60 WB	353+00	-	355+50	250	OUTSIDE SHOULDER, FLOWS EAST, CONNECTED TO INLET
Contract Total					**905**	

3

EARTHWORK SUMMARY

DIVISION	FROM/TO STATION	LOCATION	205.0100 COMMON EXCAVATION (1) CUT (2)	205.0100 COMMON EXCAVATION (1) EBS EXCAVATION (3)	SALVAGED/UNUSABLE PAVEMENT MATERIAL (4)	AVAILABLE MATERIAL (5)	REDUCED EBS IN FILL (9) FACTOR 1.00	EXPANDED EBS BACKFILL (11) FACTOR 1.00	UNEXPANDED FILL	EXPANDED FILL (13) FACTOR 1.20	MASS ORDINATE +/- (14)	WASTE (15)	208.0100 BORROW	COMMENT
DIVISION 1														
STH 60	341+00.00/349+50.86	BEGIN PROJ. TO END OF MEDIAN CONST.	972	0	220	752	0	0	649	779	-27			DOES NOT INCLUDE APPROACHES
IH 41 SB	266+23.84/267+55.56	AT RAMP A CONNECTION TO IH 41	228	0	46	182	0	0	0	0	182			
RAMP A	267+58.48/282+31.01	BEGIN TO END OF RAMP	17,069	0	573	16,496	0	0	12,138	14,566	1,930			
RAMP A1	277+33.47/278+75.00	BEGIN TO END OF RAMP	542	0	81	461	0	0	18	22	439			
RAMP B	278+75.00/284+00.00	BEGIN TO END OF RAMP	1,861	0	201	1,660	0	0	175	210	1,450			
RAMP D	291+00.00/293+90.22	GUARDRAIL REPLACEMENT AREA	119	0	0	119	0	0	4	5	114			DOES NOT INCLUDE APPROACH
DIVISION 1 SUBTOTAL			20,791	0	1,121	19,670	0	0	12,984	15,581	4,089	4,089	0	
DIVISION 2														
STH 60	348+65.05/349+29.54	NW APPROACH SLAB & RECONSTRUCT	73	0	27	46	0	0	0	0	46			NOT MODELED
STH 60	349+10.97/349+85.76	SW APPROACH SLAB & RECONSTRUCT	87	0	31	56	0	0	0	0	56			NOT MODELED
STH 60	352+21.63/352+96.22	NE APPROACH SLAB & RECONSTRUCT	88	0	32	57	0	0	0	0	57			NOT MODELED
STH 60	291+00.00/293+90.22	SE APPROACH SLAB & RECONSTRUCT	83	0	31	52	0	0	0	0	52			NOT MODELED
DIVISION 2 SUBTOTAL			332	0	121	211	0	0	0	0	211	211	0	
UNDISTRIBUTED			0	250				250						
GRAND TOTAL			21,123	250	1,242	19,881	0	250	12,984	15,581	4,300	4,300	0	
TOTAL COMMON EXC			21,373											

NOTES:
(1) COMMON EXCAVATION IS THE SUM OF THE CUT AND EBS EXCAVATION COLUMNS. ITEM NUMBER 205.0100
(2) SALVAGED/UNSUABLE PAVEMENT MATERIAL IS INCLUDED IN CUT.
(3) EBS EXCAVATION TO BE BACKFILLED WITH SELECT BORROW MATERIAL.
(4) SALVAGED/UNUSABLE PAVEMENT MATERIAL
(5) AVAILABLE MATERIAL = CUT - SALVAGED/UNUSUABLE PAVEMENT MATERIAL
(9) REDUCED EBS IN FILL - EXCAVATED EBS MATERIAL IS USUABLE IN FILLS OUTSIDE THE 1:1 SLOPE. EBS IN FILL REDUCTION FACTOR = 1.00
(11) EXPANDED EBS BACKFILL - THIS IS TO BE FILLED WITH SELECT BORROW MATERIAL. EBS BACKFILL FACTOR = 1.00. ITEM NUMBER 208.1100
(13) EXPANDED FILL FACTOR = 1.20
(14) THE MASS ORDINATE + OR - QTY CALCULATED FOR THE DIVISION. PLUS QUANTITY INDICATES AN EXCESS OF MATERIAL WITHIN THE DIVISION. MINUS INDICATES A SHORTAGE OF MATERIAL WITHIN THE DIVISION.
(15) FACTORS USED TO COMPUTE ANTICIPATED WASTE AND THE COMPUTED WASTE VOLUME IDENTIFIED ARE FOR GENERAL INFORMATION ONLY.

FILE NAME : K:\195704_STH 60 and IH 41 Intersection\3.0 Deliverables\3.02 Roadway\Design\Quantities\90 Percent\030201_mq.pptx PLOT DATE : 10/20/2025 05:00 PM PLOT BY : MICHAEL BAKER INTL PLOT NAME : PLOT SCALE : 1:1

3

PREPARE FOUNDATION

CATEGORY	ROADWAY	STA	TO	STA	LOCATION	211.0400 Prepare Foundation for Asphaltic Shoulders STA
1000	STH 60 EB	353+42	-	357+75	RT	5
		358+15	-	366+59	RT	9
	STH 60 WB	341+00	-	345+63	LT	5
		346+89	-	348+64	LT	3
		356+57	-	367+12	LT	12
	IH 41 NB	267'IH'+46	-	281'IH'+21	LT	15
	IH 41 SB	269'IH'+31	-	282'IH'+67	RT	15
	RAMP C	270'C'+78	-	287'C'+55	RT	18
		279'C'+59	-	287'C'+55	LT	9
	RAMP D	277'D'+40	-	283'D'+62	LT	7
		277'D'+40	-	290'D'+73	RT	15
	RAMP E	267'E'+61	-	272'E'+97	LT	6
		267'E'+61	-	273'E'+28	RT	7
Contract Total						**126**

PREPARE & FINISH PROJECT

CATEGORY	211.0101.01 Prepare Foundation for Asphaltic Paving 2310-09-71 EACH	213.0100.01 Finishing Roadway 2310-09-71 EACH
1000	1	1
Contract Total	**1**	**1**

3

OBLITERATING OLD ROAD

CATEGORY	ROADWAY	STA	TO	STA	214.0100 Obliterating Old Road STA
1000	RAMP A EX	551'AX'+40	-	569'AX'+81	19
Contract Total					**19**

BASE AGGREGATE

CATEGORY	ROADWAY	STA	TO	STA	305.0110 Base Aggregate Dense 3/4-Inch TON	305.0120 Base Aggregate Dense 1 1/4-Inch TON	305.0500 Shaping Shoulders STA	310.0110 Base Aggregate Open-Graded TON	* 624.0100 Water MGAL
1000	STH 60 EB	341+00	-	367+13	150	728	-	205	16
	STH 60 WB	341+00	-	367+13	104	332	-	144	9
	STH 60 MEDIAN	341+00	-	367+13	-	63	-	160	3
	IH 41 SB	266'IH'+24	-	270'IH'+86	28	345	-	-	6
	IH 41 MEDIAN	267'IH'+61	-	284'IH'+28	-	-	36	-	-
	RAMP A	267'A'+56	-	282'A'+31	176	3,517	-	-	55
	RAMP B	278'B'+73	-	282'B'+61	83	1,289	-	-	21
	RAMP C	270'C'+13	-	287'C'+55	194	-	-	-	3
	RAMP D	277'D'+40	-	293'D'+26	188	452	-	-	10
	RAMP E	267'E'+61	-	273'E'+28	79	-	-	-	1
Undistributed					50	336	-	25	6
Contract Total					**1,052**	**7,062**	**36**	**534**	**130**

*ADDITIONAL QTYS SHOWN ELSEWHERE

ASPHALTIC REPAIR

CATEGORY	ROADWAY	STA	TO	STA	SPV.0195.01 ASPHALTIC REPAIR TON
1000	STH 60 EB	342+30	-	342+60	9
		344+00	-	344+15	5
		354+63	-	355+08	8
		355+27	-	355+52	5
		355+87	-	356+32	8
		356+44	-	356+85	6
		357+06	-	357+17	2
		357+35	-	357+60	5
		357+82	-	358+07	5
		357+93	-	358+80	15
		359+50	-	360+01	14
	STH 60 WB	342+87	-	343+17	5
		355+15	-	355+55	6
		355+55	-	356+40	11
		356+39	-	356+67	4
		357+64	-	357+87	4
		359+17	-	359+34	3
		361+23	-	361+45	4
		361+83	-	362+04	4
		362+80	-	362+89	2
		363+10	-	363+36	5
		364+32	-	364+58	5
		364+74	-	364+99	5
		364+97	-	365+13	3
		365+20	-	365+47	5
		365+64	-	365+83	4
		366+22	-	366+50	6
		366+50	-	367+14	22
	RAMP C	270'C'+35	-	270'C'+78	17
		272'C'+83	-	273'C'+26	9
		274'C'+41	-	274'C'+95	11
		277'C'+53	-	278'C'+07	11
		279'C'+94	-	280'C'+20	6
		283'C'+15	-	283'C'+57	9
		284'C'+00	-	284'C'+35	7
		284'C'+55	-	285'C'+24	14
		285'C'+38	-	285'C'+61	5
		286'C'+61	-	287'C'+39	14
Subtotal					**283**

CATEGORY	ROADWAY	STA	TO	STA	SPV.0195.01 ASPHALTIC REPAIR TON
1000	RAMP D	277'D'+76	-	278'D'+33	12
		282'D'+20	-	282'D'+63	9
		283'D'+67	-	284'D'+37	15
		284'D'+49	-	285'D'+10	13
		286'D'+65	-	286'D'+95	7
		289'D'+13	-	289'D'+20	2
		289'D'+56	-	290'D'+17	13
		291'D'+71	-	292'D'+79	23
	RAMP E	267'E'+65	-	268'E'+17	11
		268'E'+31	-	268'E'+59	6
		269'E'+81	-	270'E'+09	6
Subtotal					**117**
Contract Total					**400**

CONCRETE PAVEMENT

CATEGORY	STAGE	ROADWAY	STA	TO	STA	415.0080 Concrete Pavement 8-Inch SY	415.0410 Concrete Pavement Approach Slab SY	REMARKS
1000	STAGE 1	STH 60 EB	349+36	-	349+75	-	32	INSIDE LANE
			352+78	-	353+17	-	64	INSIDE LANE
	STAGE 2 A/B	STH 60 EB	349+36	-	349+67	23	42	OUTSIDE LANE AND SHOULDER
			352+94	-	353+17	11	17	OUTSIDE LANE AND SHOULDER
	STAGE 2A	STH 60 WB	348+90	-	349+13	-	17	INSIDE LANE
			352+40	-	352+70	-	41	INSIDE LANE
	STAGE 2B	STH 60 WB	348+90	-	349+40	12	106	OUTSIDE LANE AND SHOULDER
			352+21	-	352+70	23	31	OUTSIDE LANE AND SHOULDER
Contract Total						**69**	**350**	

ASPHALT PAVEMENT

CATEGORY	ROADWAY	STA	TO	STA	450.4000 HMA Cold Weather Paving TON	455.0605 Tack Coat GAL	460.5223 HMA Pavement 3 LT 58-28 S TON	460.5224 HMA Pavement 4 LT 58-28 S TON	460.6423 HMA Pavement 3 MT 58-28 H TON	460.6425 HMA Pavement 5 MT 58-28 H TON	465.0125 Asphaltic Surface Temporary TON	REMARKS
1000	STH 60 EB	341+00	-	367+13	-	1,200	-	-	968	721	-	ASPHALTIC OVERLAY
		341+00	-	343+29	-	90	-	-	105	41	-	FULL DEPTH LANE TAPER & SHOULDER AT RAMP A
		345+18	-	346+91	-	11	-	-	-	-	18	OVER EXISTING CONCRETE RUMBLE STRIPS
		347+55	-	349+11	-	3	-	-	7	4	-	FULL DEPTH SHOULDER AT GUARDRAIL
		349+11	-	349+52	-	24	-	-	23	10	-	FULL DEPTH LANE & SHOULDER AT APPROACH SLAB
		353+17	-	343+42	-	22	-	-	24	9	-	FULL DEPTH LANE & SHOULDER AT APPROACH SLAB
	STH 60 MEDIAN	347+65	-	353+17	-	28	-	-	49	17	-	ADJACENT TO MEDIAN RECONSTRUCTION
	STH 60 WB	341+00	-	367+13	-	1,067	-	-	875	641	-	ASPHALTIC OVERLAY
		346+89	-	348+74	-	6	-	-	-	-	19	TEMPORARY OUTSIDE SHOULDER WIDENING
		348+65	-	348+90	-	20	-	-	21	8	-	FULL DEPTH LANE & SHOULDER AT APPROACH SLAB
		352+55	-	352+95	-	24	-	-	24	10	-	FULL DEPTH LANE & SHOULDER AT APPROACH SLAB
		353+01	-	355+59	-	16	-	-	-	-	26	OVER EXISTING CONCRETE RUMBLE STRIPS
	IH 41 NB	267'IH'+61	-	281'IH'+15	69	69	138	138	-	-	-	INSIDE SHOULDER WIDENING, TO BE LEFT IN PLACE
	IH 41 SB	266'IH'+24	-	270'IH'+86	-	96	-	-	103	51	-	FULL DEPTH LANE, SHOULDER, & GORE
		270'IH'+53	-	284'IH'+28	63	63	126	126	-	-	-	INSIDE SHOULDER WIDENING, TO BE LEFT IN PLACE
	RAMP A	266'A'+24	-	282'A'+31	-	933	-	-	1,088	405	-	FULL DEPTH LANES & SHOULDERS
	RAMP B	278'B'+73	-	281'B'+17	-	292	-	-	375	102	-	FULL DEPTH LANES & SHOULDERS
	RAMP C	270'C'+13	-	287'C'+55	-	635	-	-	635	381	-	ASPHALTIC OVERLAY
	RAMP D	277'D'+40	-	293'D'+26	-	557	-	-	557	334	-	ASPHALTIC OVERLAY & WIDENING AT GUARDRAIL
	RAMP E	267'E'+60	-	273'E'+28	-	213	-	-	213	128	-	ASPHALTIC OVERLAY
Contract Total					**132**	**5,369**	**264**	**264**	**5,067**	**2,862**	**63**	

RUMBLE STRIPS

Category	ROADWAY	STA	TO	STA	465.0510 Asphaltic Rumble Strips, Shoulder Divided Roadway LF	REMARKS
1000	IH 41 NB	267'IH'+61	-	281'IH'+15	1,354	INSIDE SHOULDER
	IH 41 SB	270'IH'+53	-	284'IH'+28	1,375	INSIDE SHOULDER
Contract Total					**2,729**	

HIGH FRICTION SURFACE TREATMENT

Category	ROADWAY	STA	TO	STA	SPV.0180.02 Resin Binder High Friction Surface Treatment SY
1000	STH 60 WB	352+21	-	354+50	205
	RAMP D	291'D'+00	-	293'D'+90	765
Contract Total					**971**

CURB & GUTTER

CATEGORY	ROADWAY	STA	TO	STA	LOCATION	601.0409 Concrete Curb & Gutter 30-Inch Type A LF	601.0411 Concrete Curb & Gutter 30-Inch Type D LF	601.0557 Concrete Curb & Gutter 6-Inch Sloped 36-Inch Type D LF	601.0584 Concrete Curb & Gutter 4-Inch Sloped 30-Inch Type TBT LF	601.0586 Concrete Curb & Gutter 4-Inch Sloped 30-Inch Type TBTT LF	REMARKS
1000	STH 60 EB	347+75	-	349+50	MEDIAN	15	161	-	-	-	MATCH BRIDGE MEDIAN
		349+26	-	349+69	RT	-	-	-	27	16	ABUT TO PARAPET
		352+75	-	353+17	MEDIAN	42	-	-	-	-	MATCH BRIDGE MEDIAN
	STH 60 WB	347+75	-	349+42	MEDIAN	52	117	-	-	-	MATCH BRIDGE MEDIAN
		348+65	-	348+74	LT	-	-	-	9	-	ABUT TO PARAPET
		353+49	-	353+55	LT	206	-	-	-	-	ADJACENT TO CORRUGATED SHLDR
		352+58	-	353+17	MEDIAN	12	47	-	-	-	MATCH BRIDGE MEDIAN
	RAMP A	277'A'+99	-	278'A'+33	RT	-	-	66	-	-	CURB RETURN
		278'A'+07	-	280'A'+00	RT	-	-	408	-	-	PORK CHOP ISLAND
	RAMP B	278'B'+77	-	279'B'+31	LT	-	116	-	-	-	PORK CHOP ISLAND
		278'B'+80	-	279'B'+36	LT	-	-	63	-	-	CURB RETURN
		278'B'+86	-	279'B'+38	RT	-	-	78	-	-	CURB RETURN
Contract Total						**327**	**441**	**615**	**36**	**16**	

3

3

ANCILLARY CONCRETE

CATEGORY	ROADWAY	STA	TO	STA	LOCATION	602.0410 Concrete Sidewalk 5-Inch SF	602.3010 Concrete Surface Drains CY	620.0100 Concrete Corrugated Median SF	620.0300 Concrete Median Sloped Nose SF
1000	STH 60	344+55	-	346+84	RT	-	-	2,061	-
		347+68	-	349+48	MEDIAN	1,019	-	-	64
		349+10	-	349+45	RT	-	3	-	-
		352+60	-	353+17	MEDIAN	710	-	-	-
		353+01	-	355+59	LT	-	-	2,062	-
	RAMP A	279'A'+99	-	280'A'+05	RT	-	-	-	64
	RAMP B	278'B'+77	-	279'B'+36	LT	363	-	-	48
Contract Total						**2,092**	**3**	**4,123**	**176**

TEMPORARY BARRIER

CATEGORY	ROADWAY	STAGE	603.8000 Concrete Barrier Temporary Precast Delivered LF	603.8125 Concrete Barrier Temporary Precast Installed LF	603.8500 Anchoring Concrete Barrier Temporary Precast LF	614.0905 Crash Cushions Temporary EACH	REMARKS
1000	STH 60 EB	STAGE 1	926	926	-	-	
		STAGE 2A	685	1,551	-	-	
	STH 60 WB	STAGE 1	1,025	1,025	175	1	175 LF ON OUTSIDE SHLDR TO REMAIN IN PLACE THROUGH STAGES 2A & 2B
		STAGE 2A	-	643	-	1	
		STAGE 2B	-	566	-	1	
	IH 41 NB	PRE-STAGE	907	907	-	1	TO REMAIN IN PLACE THROUGH STAGE 3N1
		STAGE 3N2	726	726	-	1	
	IH 41 SB	PRE-STAGE	909	909	-	1	TO REMAIN IN PLACE THROUGH STAGE 3N1
		STAGE 3N2	876	876	-	1	
Contract Total			**6,054**	**8,129**	**175**	**7**	

CULVERT PIPE SUMMARY

CATEGORY	ROADWAY	STATION	UPSTREAM STRUCTURE NO.	DOWNSTREAM STRUCTURE NO.	522.2343 Culvert Pipe Reinforced Concrete Horizontal Elliptical Class HE-III 43X68-Inch LF	SPV.0090.03 Culvert Pipe Reinforced Concrete Horizontal Elliptical Class HE-IV 43X68-Inch LF	522.2643 Apron Endwalls for Culvert Pipe Reinforced Concrete Horizontal Elliptical 43X68-Inch EACH	* 633.5200 Markers Culvert End EACH	UPSTREAM INVERT ELEV.	DOWNSTREAM INVERT ELEV.	SLOPE %
1000	RAMP B	281'B'+43	EW1	EW2	-	160	2	2	1102.00	1101.00	0.62%
	RAMP A	273'A'+57	EW5	EW6	115	-	2	2	1091.95	1091.55	0.35%
Contract Total					**115**	**160**	**4**	**4**			

* ADDITIONAL QTYS SHOWN ELSEWHERE

STORM SEWER PIPE SUMMARY

CATEGORY	ROADWAY	UPSTREAM STRUCTURE STATION	DOWNSTREAM STRUCTURE STATION	UPSTREAM STRUCTURE NO.	DOWNSTREAM STRUCTURE NO.	608.0242 Storm Sewer Pipe Reinforced Concrete Class II 42-Inch LF	608.0248 Storm Sewer Pipe Reinforced Concrete Class II 48-Inch LF	608.0312 Storm Sewer Pipe Reinforced Concrete Class III 12-Inch LF	608.0342 Storm Sewer Pipe Reinforced Concrete Class III 42-Inch LF	608.0448 Storm Sewer Pipe Reinforced Concrete Class IV 48-Inch LF	608.3012 Storm Sewer Pipe Class III-A 12-Inch LF	UPSTREAM INVERT ELEV.	DOWNSTREAM INVERT ELEV.	SLOPE %
1000	STH 60	346+11	347+26	EW3	MH1	-	-	-	115	-	-	1106.98	1102.99	3.47%
		347+26	347+76	MH1	MH2	51	-	-	-	-	-	1102.99	1101.29	3.34%
		347+76	348+75	MH2	MH3	101	-	-	-	-	-	1101.29	1100.00	1.28%
		348+71	348+75	INL1	MH3	-	-	-	-	-	27	1118.40	1108.00	38.65%
		348+75	349+13	MH3	MH4	-	39	-	-	-	-	1099.50	1099.00	1.28%
		349+13	350+80	MH4	EW4	-	-	-	-	236	-	1099.00	1096.00	1.27%
	RAMP A	278'A'+86	278'A'+86	INL2	EW8	-	-	87	-	-	-	1110.25	1103.32	8.00%
		280'A'+36	280'A'+36	MH5	EW7	-	-	42	-	-	-	1111.55	1111.34	0.50%
Contract Total						**152**	**39**	**129**	**115**	**236**	**27**			

STORM SEWER STRUCTURE SUMMARY

CATEGORY	ROADWAY	STRUCT. NO.	STATION	OFFSET	RIM ELEV.	DOWNSTREAM ELEV.	SUMP FT	STRUCT. FT	522.1012 Apron Endwalls for Culvert Pipe Reinforced Concrete 12-Inch EACH	522.1042 Apron Endwalls for Culvert Pipe Reinforced Concrete 42-Inch EACH	522.1048 Apron Endwalls for Culvert Pipe Reinforced Concrete 48-Inch EACH	611.0530 Manhole Covers Type J EACH	611.0612 Inlet Covers Type C EACH	611.0642 Inlet Covers Type MS EACH	611.0654 Inlet Covers Type V EACH	611.2003 Manholes 3-FT Diameter EACH	611.2006 Manholes 6-FT Diameter EACH	611.2007 Manholes 7-FT Diameter EACH	611.3225 Inlets 2x2.5-FT EACH	311.3901 Inlets Median 1 Grate EACH	* 633.5200 Markers Culvert End EACH	REMARKS
1000	STH 60	EW3	346+11	101.1' LT	-	1106.98	-	-	-	1	-	-	-	-	-	-	-	-	-	-	1	
		MH1	347+26	103' LT	1108.67	1102.99	0	4.82	-	-	-	1	-	-	-	-	1	-	-	-	-	
		MH2	347+76	91.6' LT	1111.35	1101.29	0	9.20	-	-	-	1	-	-	-	-	1	-	-	-	-	CONNECT TO EXIST MEDIAN DRAIN UNDER STH 60 WB
		INL1	348+71	45.6' LT	1122.50	1118.40	0	2.97	-	-	-	-	-	-	1	-	-	-	1	-	-	
		MH3	348+75	71.1' LT	1110.76	1099.50	0	10.44	-	-	-	1	-	-	-	-	-	1	-	-	-	
		MH4	349+13	63.4' LT	1105.12	1099.00	0	5.30	-	-	-	1	-	-	-	-	-	1	-	-	-	
		EW4	350+80	103.9' RT	-	1096.00	-	-	-	-	1	-	-	-	-	-	-	-	-	-	1	
	RAMP A	INL2	278'A'+86	22.5' RT	1115.86	1110.25	0	5.78	-	-	-	-	-	1	-	-	-	-	-	1	-	
		EW8	278'A'+86	64.0'LT	-	1103.32	-	-	1	-	-	-	-	-	-	-	-	-	-	-	1	
		MH5	280'A'+36	10.8' RT	1116.22	1111.55	0	3.60	-	-	-	-	1	-	-	1	-	-	-	-	-	CONNECT TO EXIST STORM SEWER UNDER STH 60 EB
		EW7	280'A'+36	77.9' RT	-	1111.34	-	-	1	-	-	-	-	-	-	-	-	-	-	-	1	
Contract Total									**2**	**1**	**1**	**4**	**1**	**1**	**1**	**1**	**2**	**2**	**1**	**1**	**4**	

* ADDITIONAL QTYS SHOWN ELSEHWERE

3

RIPRAP

CATEGORY	ROADWAY	STA	OFFSET	606.0200 Riprap Medium CY	645.0120 Geotextile Type HR SY	REMARKS
1000	STH 60	349+20	80.8' RT	33	101	FLUME, L=58', D=18"
		350+80	103.9' RT	14	62	EW4, Lo = 18', D=18"
	RAMP A	273'A'+55	57.9' LT	14	62	EW6, Lo = 18', D=18"
	RAMP B	280'B'+87	63.4' RT	14	62	EW2, Lo = 18', D=18"
Contract Total				**75**	**287**	

COVER PLATES

CATEGORY	611.8120.S Cover Plates Temporary EACH
1000	3
Contract Total	**3**

3

CLEANING PIPES

CATEGORY	ROADWAY	** STA	LOCATION	SPV.0090.04 Cleaning Storm Sewer LF	* 633.5200 Markers Culvert End EACH	REMARKS
1000	STH 60	346+55	MEDIAN/RT	58	-	CLEAN SYSTEM UPSTREAM OF NEW PIPE CONNECTION
		347+75	LT	91	-	CLEAN SYSTEM UPSTREAM OF NEW PIPE CONNECTION
		354+95	RT	298	1	
		361+61	RT	88	1	
		366+08	LT	101	-	
Contract Total				**636**	**2**	

* ADDITIONAL QTYS SHOWN ELSEWHERE

** STA FOR MOST UPSTREAM INLET IN SYSTEM

RECONSTRUCTING/ADJUSTING MANHOLES & INLETS

CATEGORY	ROADWAY	STA	LOCATION	611.0430 Reconstructing Inlets EACH	611.8115 Adjusting Inlet Covers EACH
1000	STH 60	347+74	MEDIAN	-	1
		355+50	LT	-	1
Undistributed				1	0
Contract Total				**1**	**2**

PIPE UNDERDRAIN

CATEGORY	ROADWAY	STA	TO	STA	612.0404 Pipe Underdrain Wrapped 4-Inch LF	645.0140 Geotextile Type SAS SY	REMARKS
1000	STH 60 EB	341+00	-	345+25	425	472	FLOWS EAST, CONNECT TO INLET
		345+25	-	347+55	230	256	FLOWS WEST, CONNECT TO INLET
	STH 60 WB	347+75	-	349+40	165	184	FLOWS WEST, CONNECT TO INLET
		353+00	-	355+50	250	278	FLOWS EAST, CONNECT TO INLET
Contract Total					**1,070**	**1,190**	

EXISTING TO REMAIN UNDERDRAIN OUTFALLS

CATEGORY	ROADWAY	STA	LOCATION	SPV.0060.17 Locate and Clean Existing Underdrain Outfalls EACH	646.5520 Marking Outfall Epoxy EACH	REMARKS
1000	STH 60	345+00	LT	1	1	FLOWS FROM EAST AND WEST
		362+09	RT	1	1	FLOWS FROM WEST TO EAST
		365+59	LT	1	1	FLOWS FROM WEST TO EAST
		367+09	RT	1	1	FLOWS FROM WEST TO EAST
		370+09	LT	1	1	FLOWS FROM WEST TO EAST
		370+09	RT	1	1	FLOWS FROM WEST TO EAST
Contract Total				**6**	**6**	

FILE NAME : K:\195704_STH 60 and IH 41 Intersection\3.0 Deliverables\3.02 Roadway\Design\Quantities\90 Percent\030201_mq.pptx PLOT DATE : 10/20/2025 05:00 PM PLOT BY : MICHAEL BAKER INTL PLOT NAME : PLOT SCALE : 1:1

3

GUARDRAIL

CATEGORY	ROADWAY	STA	TO	STA	LOCATION	614.0220 Steel Thrie Beam Bullnose Terminal EACH	614.0230 Steel Thrie Beam LF	614.2300 MGS Guardrail 3 LF	614.2500 MGS Thrie Beam Transition LF	614.2610 MGS Guardrail Terminal EAT EACH
1000	STH 60 EB	348+06	-	349+73	RT	-	-	75	40	1
	IH 41	274'IH'+35	-	277'IH'+51	MEDIAN	1	525	-	-	-
	RAMP D	292'D'+23	-	293'D'+82	RT	-	-	63	40	1
Contract Total						**1**	**525**	**138**	**80**	**2**

3

FENCE

CATEGORY	ROADWAY	STA	TO	STA	LOCATION	616.0100.01 Fence Woven Wire (4-FT) LF
1000	RAMP A	270'A'+00	-	273'A'+94	LT	383
Contract Total						**383**

DELINEATORS

Category	ROADWAY	STA	TO	STA	633.0100 Delineator Posts Steel EACH	633.0500 Delineator Reflectors EACH
1000	RAMP A	266'A'+24	-	283'A'+20	28	28
	RAMP B	278'B'+73	-	284'B'+05	9	13
	RAMP C	270'C'+78	-	287'C'+55	21	21
	RAMP D	277'D'+40	-	293'D'+85	17	17
	RAMP E	267'E'+61	-	273'E'+83	5	10
Contract Total					**80**	**89**

DUST CONTROL

CATEGORY	ROADWAY	STA	TO	STA	623.0200 Dust Control Surface Treatment SY	* 624.0100 Water MGAL	REMARKS
1000	STH 60	341+00	-	343+29	565	3	WATER & SURFACE TREATMENT ON ROADBED
	RAMP A EX	551'AX'+40	-	569'AX'+81	-	23	WATER FOR OBLITERATING OLD ROAD
	RAMP A	267'A'+56	-	282'A'+31	6,218	67	WATER & SURFACE TREATMENT ON ROADBED; WATER ONLY IN INFIELD AREA
	RAMP B	278'B'+73	-	282'B'+61	1,484	19	WATER & SURFACE TREATMENT ON ROADBED; WATER ONLY IN INFIELD AREA
Contract Total					**8,267**	**111**	

3

RESTORATION

CATEGORY	ROADWAY	STA	TO	STA	625.0100 Topsoil SY	627.0200 Mulching SY	629.0210 Fertilizer Type B CWT	630.0130 Seeding Mixture No. 30 LB	630.0500 Seed Water MGAL
1000	STH 60	341+00	-	367+13	252	252	1	11	6
	IH 41	266'IH'+24	-	270'IH'+86	1,948	1,948	2	88	44
	RAMP A	266'A'+24	-	282'A'+31	14,729	14,729	11	663	330
	RAMP B	278'B'+73	-	282'B'+61	7,060	7,060	5	318	160
	RAMP D	277'D'+40	-	293'D'+26	465	465	1	21	10
Undistributed					6,114	6,114	5	276	138
Contract Total					**30,568**	**30,568**	**25**	**1,377**	**688**

3

EROSION CONTROL

CATEGORY	ROADWAY	628.1504 Silt Fence LF	628.1520 Silt Fence Maintenance LF	628.7504 Temporary Ditch Checks LF	628.7005 Inlet Protection Type A EACH	628.7020 Inlet Protection Type D EACH	628.7555 Culvert Pipe Checks EACH	628.756 Tracking Pads EACH
1000	STH 60	270	1620	-	1	11	1	-
	IH 41	-	-	60	-	1	1	1
	RAMP A	1,055	6,330	1,210	2	2	1	1
	RAMP B	-	-	140	-	-	2	1
	RAMP C	-	-	-	-	1	-	-
	RAMP D	292	1752	-	-	1	1	-
Undistributed		405	2,426	353	1	4	2	1
Contract Total		**2,022**	**12,128**	**1,763**	**4**	**20**	**8**	**4**

EROSION CONTROL MOBILIZATION

CATEGORY	628.1905 Mobilizations Erosion Control EACH	628.1910 Mobilizations Emergency Erosion Control EACH	REMARKS
1000	6	5	PRE-STAGE + 2 DURING STAGE 1 + STAGE 1 COMPLETION + STAGE 2 COMPLETION + IH 41 MEDIAN RESTORATION
Undistributed	2	2	
Contract Total	**8**	**7**	

TYPE I & II PERMANENT SIGNING REMOVALS **2310-09-71** **CATEGORY CODE 1000**

SIGN NO.	SIGN CODE	SIGN MESSAGE	638.2602 REMOVING SIGNS TYPE II [EA]	638.3000 REMOVING SMALL SIGN SUPPORTS [EA]	REMARKS / NEW SIGN LOCATION	638.2601 REMOVING SIGNS TYPE I [EA]
1R	D1-2	JACKSON FOND DU LAC AHEAD MILWAUKEE RIGHT	1	2		
2R	R2-1	50 MPH	1	1		
3R-1	D2-2	DOWNTOWN SLINGER 1 HARTFORD 3	1	2		
3R-2	J4-2 M3-4 M1-6 MB4-1 M1-1	 STH 60 IH 41	1	1		
4R	R5-98		1	1		
5R	R5-1		1	1		
6R	J3-1 MB3-3 M1-1 MB6-2R	 IH 41	1	1		
7R	R5-98		1	1		
8R	R4-7		1	1		
9R	R5-98		1	1		
10R	W3-3		1	1		
11R	R1-1		1	1	INCLUDES REMOVAL OF R5-1C	
12R	J3-1 MB3-3 M1-1 MB6-2R	 IH 41	1	1		
13R	J3-2 M3-2 M1-6 M6-1L M3-4 M1-6 M6-1R	 STH 60 STH 60	1	1	INCLUDES REMOVAL OF R5-1 AND R5-1A	
14R	R1-1		1	1	INCLUDES REMOVAL OF R6-3 AND R6-2L	
15R	R4-7		1	1	INCLUDES REMOVAL OF R3-2	
16R	R6-2L		1	1		
17R	R1-2		1	1		
18R	R6-2L		1	1	INCLUDES REMOVAL OF W1-6	
19R	R1-1		1	1	INCLUDES REMOVAL OF R6-3	
20R	R3-1		1	1	INCLUDES REMOVAL OF R5-1 AND R5-1A	

TYPE I & II PERMANENT SIGNING REMOVALS **2310-09-71** **CATEGORY CODE 1000**

SIGN NO.	SIGN CODE	SIGN MESSAGE	638.2602 REMOVING SIGNS TYPE II [EA]	638.3000 REMOVING SMALL SIGN SUPPORTS [EA]	REMARKS / NEW SIGN LOCATION	638.2601 REMOVING SIGNS TYPE I [EA]
21R	J3-1 MB3-3 M1-1 MB6-1L	IH 41	1	1	INCLUDES REMOVAL OF R4-7	
22R	R5-1		1	1	INCLUDES REMOVAL OF W23-2	
23R	D1-1	FOND DU LAC LEFT	1	2		
24R	D1-1	MILWAUKEE LEFT	1	2	INCLUDES REMOVAL OF J-ASSEMBLY	
25R	W5-52R		1	1		
26R	J3-1 MB3-3 M1-1 MB5-1L	IH 41	1	1		
27R	W4-3R		1	1		
28R	J3-1 MB3-1 M1-1 MB6-1L	IH 41	1	1	INCLUDES REMOVAL OF R4-7	
29R	R4-7		1	1		
30R	J3-1 MB3-1 M1-1 MB6-1R	IH 41	1	1	INCLUDES REMOVAL OF R5-1	
31R-1	W4-1R		1	1		
31R-2	R5-1A		1	1		
32R	W4-2R		1	1		
33R	R5-1A		1	1		
34R	R5-1		1	1		
35R	D1-2	FOND DU LAC RIGHT	1	2		
36R	J4-1 M3-2 M1-6	STH 60	1	1		
37R-1	E6-54A	WEST STH 60 TO SOUTH IH 41 DOWN ARROW ONLY				1
37R-2	D16-1R	NORTH IH 41 RIGHT TURN ONLY				1
38R	D2-2	JACKSON 3 GRAFTON 14	1	2		
39R	J1-1 M2-1 M1-5A	CTH C	1	1		
40R	R6-5P		1	1	INCLUDES REMOVAL OF W13-1	

TYPE I & II PERMANENT SIGNING REMOVALS **2310-09-71** **CATEGORY CODE 1000**

SIGN NO.	SIGN CODE	SIGN MESSAGE	638.2602 REMOVING SIGNS TYPE II [EA]	638.3000 REMOVING SMALL SIGN SUPPORTS [EA]	REMARKS / NEW SIGN LOCATION	638.2601 REMOVING SIGNS TYPE I [EA]
41R	R5-57		1	1		
42R	D12-2A		1	2		
43R	CUSTOM	KETTLE MORAINE STATE FOREST PIKE LAKE UNIT RIGHT AUTO MUSEUM RIGHT	1	2		
44R	J3-1 MB4-1 M1-1 MB6-1R	IH 41	1	1		
45R	R5-1A		1	1		
46R	D2-3	GRAFTON JACKSON LEFT HARTFORD RIGHT	1	2	INCLUDES REMOVAL OF R5-1A, D9-2, & MB6-1R	
47R	E5-1B	EXIT 64 A-B	1	2	INCLUDES REMOVAL OF W5-54 (2X)	
48R	W3-1		1	1		
49R	R5-57		1	1		
50R	W13-3	35 MPH	1	1		
51R	W1-6		1	1		
52R	W1-6		1	1		
53R	W1-1R		1	1	INCLUES REMOVAL OF W13-1	
54R	E5-1B	EXIT 64 B	1	2	INCLUDES REMOVAL OF E13-1P & W5-54 (2X)	
55R	W1-6		1	2		
56R	W1-8		1	1		
57R	W1-8		1	1		
58R	W1-8		1	1		
59R	W1-8		1	1		
60R	W1-8		1	1		
61R	W1-8		1	1		
62R	W1-8		1	1		
63R	W1-8		1	1		
64R	D9-2		1	1	INCLUDES REMOVAL OF MB5-1R	
65R	W8-5		1	1		
66R	E5-1B	EXIT 64 A	1	2	INCLUDES REMOVAL OF W5-54 (2X)	
67R	W3-2		1	1		
68R	R5-1A		1	1		
69R	R1-2		1	1		
SUBTOTAL			70	83		2
UNDISTRIBUTED			4	5		1
TOTALS			74	88		3

TYPE I & II PERMANENT SIGNING **2310-09-71** **CATEGORY CODE 1000**

SIGN NO.	SIGN CODE & SIZE	SIGN MESSAGE	SIGN SIZE W [IN.]	x	H [IN.]	637.2210 SIGNS TYPE II REFLECTIVE H [SF]	637.2215 SIGNS TYPE II REFLECTIVE H FOLDING [SF]	637.2230 SIGNS TYPE II RELFECTIVE F [SF]	638.2102 MOVING SIGNS TYPE II [EA]	634.0618 POSTS WOOD 4x6-INCH X 18-FT [EA]	634.0622 POSTS WOOD 4x6-INCH X 22-FT [EA]	MOUNT ON SAME POST AS SIGN #	REMARKS / NEW SIGN LOCATION	TYPE I SIGN SIZE W [FT.]	x	H [FT.]	637.1220 SIGNS TYPE I REFLECTIVE SH [SF]	638.2101 MOVING SIGNS TYPE I [EA]
1	W23-2 (2M)		36	x	36			9		1			16"X16" TEMPORARY WARNING FLAGS					
2	W13-3 (3)	40 MPH	36	x	48			12		1								
3	D1-2	JACKSON FOND DU LAC AHEAD MILWAUKEE RIGHT	108	x	48	36				2								
4	R2-1 (3)	5O MPH	36	x	48	12				1								
5	W3-3 (3)		36	x	36			9		1			16"X16" TEMPORARY WARNING FLAGS					
6	J3-1 (3)		36	x	84	21					1							
	MB3-3		24	x	12													
	M1-1	IH 41	24	x	24													
	MB6-2R		21	x	21													
7	D2-2	DOWNTOWN SLINGER 1 HARTFORD 3	108	x	24	18				2								
8	J4-2 (3)		72	x	54	27				2								
	M3-4		36	x	18													
	M1-6	STH 60	36	x	36													
	MB4-1		36	x	18													
	M1-1	IH 41	36	x	36													
9	R5-98 (2M)		42	x	24	7				1								
10	R5-1 (3)		36	x	36	9				1								
11	R5-98 (2M)		42	x	24	7				1								
12	R4-7 (3)		36	x	48	12				1								
13	W12-1D (3)		30	x	30			6.25		1			2' MOUNTING HEIGHT					
14	R5-98 (2M)		42	x	24	7				1								
15	R1-1F (3)		36	x	36		7.46						MOUNTED ON SIGNAL POLE					
16	J3-1 (3)		36	x	84	21					1							
	MB3-3		36	x	18													
	M1-1	IH 41	36	x	36													
	MB6-2R		30	x	30													
17	R5-1 (5)		48	x	48	16				1								
17A	R5-1A (5)		42	x	30	8.75						17	3' MOUNTING HEIGHT					
18	J3-1 (3)		36	x	84	21					1							
	MB3-1		36	x	18													
	M1-1	IH 41	36	x	36													
	MB4-20L		36	x	18													
19	J3-1 (3)		36	x	84	21					1							
	MB3-1		36	x	18													
	M1-1	IH 41	36	x	36													
	MB4-20L		36	x	18													
20	W12-1D (3)		30	x	30			6.25		1			2' MOUNTING HEIGHT					
21	R1-1F (3)		36	x	36		7.46						MOUNTED ON SIGNAL POLE					
22	J3-1 (3)		36	x	84	21					1		MOUNTED ON SIGNAL POLE					
	MB3-3		36	x	18													
	M1-1	IH 41	36	x	36													
	MB6-1L		30	x	30													
22A	R4-7 (3)		36	x	48	12							MOUNTED ON SIGNAL POLE					
23	R1-1F (3)		36	x	36		7.46			1								
23A	R3-18 (3)		36	x	36	9						23						
24	R1-1F (3)		36	x	36		7.46						MOUNTED ON SIGNAL POLE					
25	R5-1 (5)		48	x	48	16				1								
25A	R5-1A (5)		42	x	30	8.75						25	3' MOUNTING HEIGHT					

SHEET 1 OF 4

TYPE I & II PERMANENT SIGNING **2310-09-71** **CATEGORY CODE 1000**

SIGN NO.	SIGN CODE & SIZE	SIGN MESSAGE	SIGN SIZE W [IN.] x H [IN.]	637.2210 SIGNS TYPE II REFLECTIVE H [SF]	637.2215 SIGNS TYPE II REFLECTIVE H FOLDING [SF]	637.2230 SIGNS TYPE II RELFECTIVE F [SF]	638.2102 MOVING SIGNS TYPE II [EA]	634.0618 POSTS WOOD 4x6-INCH X 18-FT [EA]	634.0622 POSTS WOOD 4x6-INCH X 22-FT [EA]	MOUNT ON SAME POST AS SIGN #	REMARKS / NEW SIGN LOCATION	TYPE I SIGN SIZE W [FT.] x H [FT.]	637.1220 SIGNS TYPE I REFLECTIVE SH [SF]	638.2101 MOVING SIGNS TYPE I [EA]
26	R1-1F (3)		36 x 36		7.46			1						
27	R6-2R (3)		36 x 48	12						26				
28	R6-2L (3)		36 x 48	12							MOUNTED ON SIGNAL POLE			
29	R5-1 (3)		36 x 36	9							MOUNTED ON SIGNAL POLE			
30	R1-1F (3)		36 x 36		7.46						MOUNTED ON SIGNAL POLE			
31	R4-7 (3)		36 x 48	12							MOUNTED ON SIGNAL POLE			
32	R1-1F (3)		36 x 36		7.46						MOUNTED ON SIGNAL POLE			
33	R3-1 (3)		36 x 24	6				1						
34	D1-1	LEFT FOND DU LAC	108 x 21	15.75				2						
35	J3-1 (3)		36 x 84	21					1					
	MB3-1		36 x 18											
	M1-1	IH 41	36 x 36											
	MB5-1L		30 x 30											
36	W5-52R (3)		18 x 54			6.75		1			4' MOUNTING HEIGHT			
37	D1-1	LEFT MILWAUKEE	96 x 21	14				2						
38	J3-1 (3)		36 x 84	21					1					
	MB3-3		36 x 18											
	M1-1	IH 41	36 x 36											
	MB5-1L		30 x 30											
39	W4-3R (3)		36 x 36			9		1						
40	J3-1 (3)		36 x 84	21					1					
	MB3-1		36 x 18											
	M1-1	IH 41	36 x 36											
	MB6-1L		30 x 30											
41	R4-7 (3)		36 x 48	12						40				
42	R4-7 (3)		36 x 48	12				1						
43	W4-1R (3)		36 x 36			9		1						
44	R5-1A (3)		42 x 30	8.75				1						
45	R5-1 (3)		36 x 36	9						46				
46	J3-1 (3)		36 x 84	21					1					
	MB3-1		36 x 18											
	M1-1	IH 41	36 x 36											
	MB6-1R		30 x 30											
47	W3-3 (3)		36 x 36			9		1			16"X16" TEMPORARY WARNING FLAGS			
48	W3-3 (3)		36 x 36			9		1			16"X16" TEMPORARY WARNING FLAGS			
49	R5-1 (3)		36 x 36	9				1						
50	W4-2R (3)		36 x 36			9		1						
51	R5-1A (3)		42 x 30	8.75				1						
52	R3-7R (3)		36 x 36	9				1						
53	D1-2	STRAIGHT MILWAUKEEFOND DU LAC RIGHT	108 x 36	27				2						
54	J4-1 (3)		36 x 54	13.5				1						
	M3-2		36 x 18											
	M1-6	STH 60	36 x 36											
55	E6-54A	WEST STH 60 TO SOUTH IH 41 DOWN ARROW ONLY									MOUNTED TO S-66-231	72 x 84	42	

TYPE I & II PERMANENT SIGNING **2310-09-71** **CATEGORY CODE 1000**

SIGN NO.	SIGN CODE & SIZE	SIGN MESSAGE	SIGN SIZE W [IN.]	x	H [IN.]	637.2210 SIGNS TYPE II REFLECTIVE H [SF]	637.2215 SIGNS TYPE II REFLECTIVE H FOLDING [SF]	637.2230 SIGNS TYPE II RELFECTIVE F [SF]	638.2102 MOVING SIGNS TYPE II [EA]	634.0618 POSTS WOOD 4x6-INCH X 18-FT [EA]	634.0622 POSTS WOOD 4x6-INCH X 22-FT [EA]	MOUNT ON SAME POST AS SIGN #	REMARKS / NEW SIGN LOCATION	TYPE I SIGN SIZE W [FT.]	x	H [FT.]	637.1220 SIGNS TYPE I REFLECTIVE SH [SF]	638.2101 MOVING SIGNS TYPE I [EA]
56	D16-1R	NORTH IH 41 RIGHT TURN ONLY	42	X	84	24.5							MOUNTED TO S-66-231					
57	D2-2	JACKSON 3 GRAFTON 14	90	x	36	22.5				2								
58	J1-1 (3)		36	x	57	14.25				1								
	M2-1		30	x	21													
	M1-5A	CTH C	36	x	36													
59	W23-2 (2M)		36	x	36			9		1			16"X16" TEMPORARY WARNING FLAGS					
60	W23-2 (2M)		36	x	36			9		1			16"X16" TEMPORARY WARNING FLAGS					
61	R6-5P (2M)		30	x	30	6.25				1								
61A	W13-1 (3)		24	x	24			4				61						
62	R5-57 (5)		36	x	36	9				1								
63	R5-57 (5)		36	x	36	9				1								
64	W4-2L (3)		36	x	36			9		1								
65	W4-2L (3)		36	x	36			9		1								
66	D12-2B (3)		84	x	36	21					2							
67	J3-3 (3)		108	x	84	63					2							
	M3-2		36	x	18													
	M1-6	STH 60	36	x	36													
	M6-1L		30	x	30													
	M3-4		36	x	18													
	M1-6	STH 60	36	x	36													
	M6-1R		30	x	30													
	MB4-1		36	x	18													
	M1-1	IH 41	36	x	36													
	MB6-1R		30	x	30													
68	CUSTOM	KETTLE MORAINE STATE FOREST PIKE LAKE UNIT RIGHT AUTO MUSEUM RIGHT	90	x	36	22.5				2								
69	R5-1A (3)		42	x	30	8.75				1								
70	R5-1A (3)		42	x	30	8.75						71						
71	D2-3	GRAFTON JACKSON LEFT HARTFORD RIGHT	66	x	36	16.5				2								
71A	JH-1 (3)		36	x	66	16.5						71						
	D9-2		36	x	36													
	MB6-1R		30	x	30													
72	R5-1A (3)		42	x	30	8.75				1								
73	E5-1B (5)	EXIT 64 A-B	96	x	84	56					2							
73A	W5-54 (2M)		18	x	18			2.25				73						
73B	W5-54 (2M)		18	x	18			2.25				73						
74	W3-3 (3)		36	x	36			9		1			16"X16" TEMPORARY WARNING FLAGS					

TYPE I & II PERMANENT SIGNING **2310-09-71** **CATEGORY CODE 1000**

SIGN NO.	SIGN CODE & SIZE	SIGN MESSAGE	SIGN SIZE W [IN.] x H [IN.]	637.2210 SIGNS TYPE II REFLECTIVE H [SF]	637.2215 SIGNS TYPE II REFLECTIVE H FOLDING [SF]	637.2230 SIGNS TYPE II RELFECTIVE F [SF]	638.2102 MOVING SIGNS TYPE II [EA]	634.0618 POSTS WOOD 4x6-INCH X 18-FT [EA]	634.0622 POSTS WOOD 4x6-INCH X 22-FT [EA]	MOUNT ON SAME POST AS SIGN #	REMARKS / NEW SIGN LOCATION	TYPE I SIGN SIZE W [FT.] x H [FT.]	637.1220 SIGNS TYPE I REFLECTIVE SH [SF]	638.2101 MOVING SIGNS TYPE I [EA]
75	R5-57 (5)		36 x 36	9				1						
76	W13-3 (3)	35 MPH	36 x 48			12		1						
77	W1-6 (3)		60 x 30			12.5		2						
78	W1-6 (3)		60 x 30			12.5		2						
79	W1-60 (5)		48 x 48			16			2					
79A	W13-1 (5)		36 x 36			9				79				
80	E5-1B (5)	EXIT 64 B	96 x 60	40					2					
80A	E13-1P (5)	25 MPH	60 x 18			7.5				80				
80B	W5-54 (2M)		18 x 18			2.25				80				
80C	W5-54 (2M)		18 x 18			2.25				80				
80D	W1-6 (3)		60 x 30			12.5		2						
81	W1-8 (3)		24 x 30			5		1						
82	W1-8 (3)		24 x 30			5		1						
83	W1-8 (3)		24 x 30			5		1						
84	W1-8 (3)		24 x 30			5		1						
85	W1-8 (3)		24 x 30			5		1						
86	W1-8 (3)		24 x 30			5		1						
87	W1-8 (3)		24 x 30			5		1						
88	W1-8 (3)		24 x 30			5		1						
89	JH-1 (3)		36 x 66	16.5				1						
	D9-2		36 x 36											
	MB6-1R		30 x 30											
90	W23-2 (2M)		36 x 36			9		1			16"X16" TEMPORARY WARNING FLAGS			
91	W3-3 (3)		36 x 36			9		1			16"X16" TEMPORARY WARNING FLAGS			
92	W8-5 (3)		36 x 36			9		1						
93	E5-1B (5)	EXIT 64 A	96 x 60	40					2					
93A	W5-54 (2M)		18 x 18			2.25				93				
93B	W5-54 (2M)		18 x 18			2.25				93				
94	W3-2 (3)		36 x 36			9		1						
95	W1-6 (3)		60 x 30			12.5		2						
96	R5-1A (3)		42 x 30	8.75				1						
97	W1-8 (3)		24 x 30			5		1						
98	W1-8 (3)		24 x 30			5		1						
99	W1-8 (3)		24 x 30			5		1						
100	W1-8 (3)		24 x 30			5		1						
101	R1-2 (3)		48 x 42	7				1						
SUBTOTAL				1013	53	348	0	86	21				42	0
UNDISTRIBUTED				102	6	35	3	9	3				5	3
TOTALS				1115	59	383	3	95	24				47	3

3

				TRAFFIC CONTROL					
				643.0300 Traffic Control Drums	643.0420 Traffic Control Barricades Type III	643.0705 Traffic Control Warning Lights Type A	643.0715 Traffic Control Warning Lights Type C	643.0810 Traffic Control Connected Arrow Boards	
CATEGORY	STAGE	DAYS	ROADWAY	DAY	DAY	DAY	DAY	DAY	REMARKS
1000	PRE-STAGE	4	STH 60	352	36	24	96	8	
			IH 41	1,048	64	96	128	-	
	Stage Subtotal			**1,400**	**100**	**120**	**224**	**8**	
	STAGE 1	82	STH 60	8,200	902	984	3,362	164	
			IH 41	5,986	328	328	-	-	
	Stage Subtotal			**14,186**	**1,230**	**1,312**	**3,362**	**164**	
	STAGE 1N1	22	IH 41	4,488	308	440	704	44	IN ADDITION TO DEVICES SHOWN IN STAGE 1
	Stage Subtotal			**4,488**	**308**	**440**	**704**	**44**	
	STAGE 1N2	22	IH 41	5,984	198	308	924	44	IN ADDITION TO DEVICES SHOWN IN STAGE 1
	Stage Subtotal			**5,984**	**198**	**308**	**924**	**44**	
	STAGE 2A	20	STH 60	1,480	140	240	600	40	
	Stage Subtotal			**1,480**	**140**	**240**	**600**	**40**	
	STAGE 2B	20	STH 60	1,340	100	200	240	20	
			IH 41	760	80	80	-	-	
	Stage Subtotal			**2,100**	**180**	**280**	**240**	**20**	
	STAGE 3N1	15	STH 60	375	135	150	-	-	
			IH 41	3,825	270	360	480	30	
	Stage Subtotal			**4,200**	**405**	**510**	**480**	**30**	
	STAGE 3N2	18	STH 60	1,170	126	252	-	-	
			IH 41	5,742	216	288	756	36	
	Stage Subtotal			**6,912**	**342**	**540**	**756**	**36**	
Undistributed				4,080	297	380	730	44	
Contract Total				**44,830**	**3,200**	**4,130**	**8,020**	**430**	

3

TRAFFIC CONTROL SIGNS

CATEGORY	STAGE	DAYS	ROADWAY	* 643.0900 Traffic Control Signs DAY	* 643.1050 Traffic Control Signs PCMS DAY	REMARKS
1000	PRE-STAGE	4	STH 60	160	-	
			IH 41	136	22	
	Stage Subtotal			**296**	**22**	
	STAGE 1	82	STH 60	5,494	-	
			IH 41	1,968	-	
	Stage Subtotal			**7,462**	**-**	
	STAGE 1N1	22	IH 41	726	58	IN ADDITION TO SIGNS SHOWN IN STAGE 1
	Stage Subtotal			**726**	**58**	
	STAGE 1N2	22	IH 41	594	29	IN ADDITION TO SIGNS SHOWN IN STAGE 1
	Stage Subtotal			**594**	**29**	
	STAGE 2A	20	STH 60	1,340	-	
			IH 41	440	-	
			STH 144	360	40	
	Stage Subtotal			**2,140**	**40**	
	STAGE 2B	20	STH 60	1,360	-	
			IH 41	580	-	
			STH 144	360	-	
	Stage Subtotal			**2,300**	**-**	
	STAGE 3N1	26	IH 41	338	-	DAYTIME SHLDR CLOSURE
		15	STH 60	795	-	NIGHTTIME EB CLOSURE
			IH 41	555	88	NIGHTTIME LANE CLOSURE
	Stage Subtotal			**1,350**	**88**	
	STAGE 3N2	50	IH 41	550	-	DAYTIME SHLDR CLOSURE
		18	STH 60	486	-	NIGHTTIME WB CLOSURE
			IH 41	666	50	NIGHTTIME LANE CLOSURE
	Stage Subtotal			**1,152**	**50**	
Undistributed				1,610	33	
Contract Total				**17,630**	**320**	

* ADDITIONAL QTYS SHOWN ELSEHWERE

DETOUR SIGNS

CATEGORY	STAGE	DAYS	CLOSURE	* 643.0900 Traffic Control Signs DAY	* 643.1050 Traffic Control Signs PCMS DAY	REMARKS
1000	STAGE 1	3	IH 41	558	40	DETOUR 10 & ALTERNATE 1
		82	RAMP A	4,920	-	DETOUR 1
			RAMP B	7,544	-	DETOURS 2 & 3
	Stage Subtotal			**13,022**	**40**	
	STAGE 1N1	22	RAMP D	1,100	-	PORTION OF DETOURS 6 & 8
			RAMP E	748	-	PORTION OF DETOUR 6
	Stage Subtotal			**1,848**	**-**	
	STAGE 1N2	22	RAMP D	1,100	-	PORTION OF DETOURS 6 & 8
	Stage Subtotal			**1,100**	**-**	
	STAGE 2A	20	WB STH 60	2,320	27	DETOUR 4
			RAMP A	1,200	-	DETOUR 1
	Stage Subtotal			**3,520**	**27**	
	STAGE 2B	20	RAMP A	1,200	-	DETOUR 1
			RAMP D	2,300	-	DETOURS 5 & 5A
	Stage Subtotal			**3,500**	**-**	
	STAGE 3N1	15	EB STH 60	1,335	-	PORTION OF DETOURS 6 & 7
			RAMP A	765	-	PORTION OF DETOUR 6
			RAMP B	765	-	PORTION OF DETOUR 7
			RAMP D	750	-	PORTION OF DETOUR 6
			RAMP C	1,110	-	PORTION OF DETOURS 6 & 7
			RAMP E	510	-	PORTION OF DETOUR 6
	Stage Subtotal			**5,235**	**-**	
	STAGE 3N2	18	WB STH 60	1,926	-	PORTION OF DETOURS 8 & 9
			RAMP B	756	-	PORTION OF DETOUR 9
			RAMP C	2,052	-	PORTION OF DETOURS 8 & 9
			RAMP D	288	-	PORTION OF DETOUR 8
	Stage Subtotal			**5,022**	**-**	
Undistributed				3,333	13	
Contract Total				**36,580**	**80**	

* ADDITIONAL QTYS SHOWN ELSEHWERE

COVERING SIGNS

CATEGORY	STAGE	COVER CYCLES	643.0910 Traffic Control Covering Signs Type I DAY	643.0920 Traffic Control Covering Signs Type II DAY	REMARKS
1000	PRE-STAGE	4	-	12	NIGHTLY WITH RAMP CLOSURES
	STAGE 1	1	-	5	ONCE AT BEGINNING OF STAGE
	STAGE 1N1	22	-	44	NIGHTLY WITH RAMP CLOSURES
	STAGE 1N2	22	-	22	NIGHTLY WITH RAMP CLOSURES
	STAGE 2A	1	1	-	ONCE AT BEGINNING OF STAGE
	STAGE 2B	1	-	1	ONCE AT BEGINNING OF STAGE
	STAGE 3N1	15	-	45	NIGHTLY WITH RAMP CLOSURES
	STAGE 3N2	18	-	36	NIGHTLY WITH RAMP CLOSURES
Undistributed			1	25	
Contract Total			**2**	**190**	

DETOUR FMS SIGNS

CATEGORY	SIGN MESSAGE	NUMBER REQUIRED	SIGN SIZE WIDTH IN	x	HEIGHT IN	SIGN AREA SF	643.1000 Traffic Contol Signs Fixed Message SF	REMARKS
1000	HWY 60 RAMP TO I-41 SOUTH CLOSED FOLLOW DETOUR	4	66	x	48	22	88	DETOUR 1
	BEGINS XXX-XX	4	66	x	12	6	22	DETOUR 1
	BEGINS XXX-XX	5	120	x	18	15	75	DETOURS 2, 5, & 5A
	HWY 60 WEST RAMP CLOSED USE EXIT 66	1	120	x	54	45	45	DETOUR 5
	HWY 60 WEST RAMP CLOSED USE EXIT 60	1	120	x	54	45	45	DETOUR 5A
	HWY 60 WEST RAMP CLOSED USE EXIT 57	1	120	x	54	45	45	DETOURS 6 & 8
	HWY 60 EAST RAMP CLOSED USE EXIT 59	1	120	x	54	45	45	DETOUR 6
	HWY 60 EAST CLOSED AT HWY 164 XXPM-XXAM FOLLOW DETOUR	1	84	x	48	28	28	DETOUR 7
	BEGINS XXX-XX	5	84	x	12	7	35	DETOURS 7 & 8
	HWY 60 WEST CLOSED AT COUNTY C XXPM-XXAM FOLLOW DETOUR	5	84	x	48	28	140	DETOUR 8
Undistributed							45	
Contract Total							**613**	

3

FILE NAME : K:\195704_STH 60 and IH 41 Intersection\3.0 Deliverables\3.02 Roadway\Design\Quantities\90 Percent\030201_mq.pptx PLOT DATE : 10/20/2025 05:00 PM PLOT BY : MICHAEL BAKER INTL PLOT NAME : PLOT SCALE : 1:1

3

BASIC TRAFFIC QUEUE WARNING SYSTEM (QWS ITEM 643.1205.S)

CATEGORY	STAGE	DAYS	ROADWAY	Basic Traffic Queue Warning System DAY	Flashing Beacon Signs (FBS) EACH	Portable Traffic Sensors (PTS) EACH
1000	PRE-STAGE	4	IH 41 NB	4	3	3
			IH 41 SB	4	3	3
	STAGE 1N1	22	IH 41 NB	22	3	3
			IH 41 SB	22	3	3
	STAGE 1N2	22	IH 41 NB	22	3	3
			IH 41 SB	22	3	3
	STAGE 3N1	15	IH 41 NB	15	3	3
			IH 41 SB	15	3	3
	STAGE 3N2	18	IH 41 NB	18	3	3
			IH 41 SB	18	3	3
Contract Total				**162**	**30**	**30**

* These items are part of the QWS and are paid for one complete system per roadway

CONNECTED WORK ZONE

CATEGORY	STAGE	DAYS	ROADWAY	643.1220 Connected Work Zone Start and End Location Markers DAY
1000	PRE-STAGE	4	STH 60	8
			IH 41	8
	STAGE 1	82	STH 60	164
	STAGE 1N1	22	IH 41	44
	STAGE 1N2	22	IH 41	44
	STAGE 2A	20	STH 60	40
			IH 41	40
	STAGE 2B	20	STH 60	40
			IH 41	40
	STAGE 3N1	15	STH 60	30
			IH 41	30
	STAGE 3N2	18	STH 60	36
			IH 41	36
Contract Total				**560**

3

TRAFFIC CONTROL CLOSURES

CATEGORY	STAGE	DAYS	ROADWAY	643.4100 Traffic Control Interim Lane Closure EACH	SPV.0060.13 Traffic Control Close-Open Freeway Entrance Ramp EACH	SPV.0060.14 Traffic Control Close-Open Freeway Entrance Ramp EACH	REMARKS
1000	PRE-STAGE	4	STH 60	8	-	-	SINGLE LANE CLOSURES EB & WB
			IH 41	8	4	-	SINGLE LANE CLOSURES NB & SB
							RAMP A NIGHTLY CLOSURE
	STAGE 1N1	22	STH 60	-	-	-	LONG TERM LANE CLOSURES IN PLACE
			IH 41	44	-	3	SINGLE LANE CLOSURES NB & SB
							RAMP A LONG TERM CLOSURE IN PLACE
	STAGE 1N2	22	STH 60	-	-	-	LONG TERM LANE CLOSURES IN PLACE
			IH 41	44	-	3	SINGLE LANE CLOSURES NB & SB
							RAMP A LONGTERM CLOSURE IN PLACE
	STAGE 3N1	15	STH 60	30	-	-	FULL CLOSURE EB (2 LANES)
			IH 41	30	15	-	SINGLE LANE CLOSURES NB & SB
							RAMP A NIGHTLY CLOSURE
	STAGE 3N2	18	STH 60	36	-	-	FULL CLOSURE WB (2 LANES)
			IH 41	36	18	-	SINGLE LANE CLOSURES NB & SB
							RAMP C NIGHTLY CLOSURE
Undistributed				24	4	-	
Contract Total				**260**	**41**	**6**	

TEMPORARY PAVEMENT MARKING

CATEGORY	STAGE	ROADWAY	643.3165 Temporary Marking Line Paint 6-Inch WHITE DASHED LF	643.3165 Temporary Marking Line Paint 6-Inch WHITE SOLID LF	643.3165 Temporary Marking Line Paint 6-Inch YELLOW SOLID LF	643.3265 Temporary Marking Line Paint 10-Inch WHITE DASHED LF	643.3265 Temporary Marking Line Paint 10-Inch WHITE SOLID LF	643.3180 Temporary Marking Line Removable Tape 6-Inch WHITE DASHED LF	643.3180 Temporary Marking Line Removable Tape 6-Inch WHITE SOLID LF	643.3180 Temporary Marking Line Removable Tape 6-Inch YELLOW SOLID LF	643.3280 Temporary Marking Line Removable Tape 10-Inch WHITE SOLID LF	REMARKS
1000	PRE-STAGE	STH 60 WB	-	-	-	-	-	-	190	-	-	ADJACENT TO TEMP SHOULDER WIDENING
		IH 41 NB	-	-	-	-	-	-	-	1,380	-	ADJACENT TO SHOULDER WIDENING
		IH 41 SB	-	-	-	-	-	-	-	1,380	-	ADJACENT TO SHOULDER WIDENING
	STAGE 1	STH 60 EB	-	-	-	-	-	-	1,848	2,946	61	
		STH 60 WB	-	-	-	-	-	272	1,373	2,253	162	
	STAGE 2A	STH 60 EB	-	-	-	-	-	54	2,461	707	221	
		STH 60 WB	-	-	-	-	-	-	1,078	1,049	-	
	STAGE 2B	STH 60 WB	-	-	-	-	-	-	780	849	-	
	STAGE 3N1	STH 60 EB	2,194	7,666	7,862	-	2,382	-	-	-	-	PLACEMENT ON MILLED SURFACE AND LOWER LAYER
		RAMP E	-	1,250	928	-	-	-	-	-	-	PLACEMENT ON MILLED SURFACE AND LOWER LAYER
	STAGE 3N2	STH 60 WB	626	4,850	5,458	380	2,890	-	-	-	-	PLACEMENT ON MILLED SURFACE AND LOWER LAYER
		RAMP C	-	3,366	3,236	-	-	-	-	-	-	PLACEMENT ON MILLED SURFACE AND LOWER LAYER
		RAMP D	-	3,302	3,138	-	-	-	-	-	-	PLACEMENT ON MILLED SURFACE AND LOWER LAYER
Undistributed			282	2,043	2,062	38	527	33	773	1,056	44	
Contract Total			**3,102**	**22,477**	**22,684**	**418**	**5,799**	**359**	**8,503**	**11,620**	**488**	
				48,264			**6,217**		**20,482**			

PAVEMENT MARKING - EPOXY

CATEGORY	ROADWAY	STA	TO	STA	SPV.0090.02 Marking Line Epoxy 6-Inch Black Non Grooved DASHED LF	646.2020 Marking Line Epoxy 6-Inch WHITE SOLID LF	646.2020 Marking Line Epoxy 6-Inch WHITE DASHED LF	646.2020 Marking Line Epoxy 6-Inch YELLOW SOLID LF	646.2041.S Marking Replace Line Wet Reflective Epoxy 6-inch WHITE DASHED LF	646.4020 Marking Line Epoxy 10-Inch WHITE SOLID LF	646.4041.S Marking Replace Line Wet Reflective Epoxy 10-inch WHITE SOLID LF	REMARKS
1000	STH 60 WB	349+05	-	352+58	36	331	36	317	-	410	-	USE ON B-66-103
	IH 41 NB	265'IH'+00	-	292'IH'+00	-	-	-	-	753	-	2,476	DASHED, DOTTED, AND GORE LINES
	IH 41 SB	266'IH'+00	-	285'IH'+00	-	-	-	-	475	-	385	DASHED, DOTTED, AND GORE LINES
Contract Total					**36**	**331**	**36**	**317**	**1,228**	**410**	**2,861**	
						684						

PAVEMENT MARKING - GROOVED

CATEGORY	ROADWAY	STA	TO	STA	646.2025 Marking Line Grooved Black Epoxy 6-Inch	646.2040 Marking Line Grooved Wet Ref Epoxy 6-Inch						646.4025 Marking Line Grooved Black Epoxy 10-Inch	646.4040 Marking Line Grooved Wet Ref Epoxy 10-Inch		REMARKS
						WHITE			YELLOW				WHITE		
					DASHED	SOLID	DASHED	DOTTED	SOLID	DASHED	DOUBLE	DASHED	SOLID	DOTTED	
					LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	
1000	STH 60 EB	325+05	-	368+00	1,005	3,833	1,005	54	3,326	196	1,185	-	1,191	38	
	STH 60 WB	325+05	-	368+00	277	1,998	277	-	1,658	-	1,185	190	945	340	
	IH 41 NB	265'IH'+00	-	292'IH'+00	-	1,732	-	-	2,700	-	-	-	-	-	OVER EXISTING EDGELINES
	IH 41 SB	266'IH'+00	-	285'IH'+00	-	1,237	12	-	1,901	-	-	-	385	-	OVER EXISTING EDGELINES & AT RAMP A GORE
	RAMP A	266'A'+24	-	283'A'+20	-	1,688	88	-	830	-	-	-	775	-	10-INCH LINES AT STH 60 GORE & SPLITTER ISLAND
	RAMP B	278'B'+73	-	284'B'+05	-	540	-	-	293	-	-	-	234	-	10-INCH LINES AT SPLITTER ISLAND ONLY
	RAMP C	270'C'+78	-	287'C'+55	-	1,683	-	-	1,618	-	-	-	-	-	
	RAMP D	277'D'+40	-	293'D'+85	-	1,651	-	-	1,569	-	-	-	68	-	10-INCH LINES AT STH 60 GORE ONLY
	RAMP E	267'E'+61	-	273'E'+83	-	625	-	-	464	-	-	-	92	-	10-INCH LINES AT STH 60 GORE ONLY
Contract Total					**1,282**	**14,987**	**1,382**	**54**	**14,359**	**196**	**2,370**	**190**	**3,690**	**378**	
						33,348							**4,068**		

PAVEMENT MARKING - SPECIAL

CATEGORY	ROADWAY	STA	TO	STA	646.5020 Marking Arrow Epoxy	646.5120 Marking Word Epoxy	646.6120 Marking Stop Line Epoxy 18-Inch	646.7120 Marking Diagonal Epoxy 12-inch		646.7220 Marking Chevron Epoxy 24-inch	646.8020 Marking Corrugated Median Epoxy	646.8120 Marking Curb Epoxy	646.8220 Marking Island Nose Epoxy
							WHITE	WHITE	YELLOW	WHITE	YELLOW	YELLOW	YELLOW
					EACH	EACH	LF	LF	LF	LF	SF	LF	EACH
1000	STH 60 EB	325+05	-	368+00	6	4	66	-	-	-	-	-	-
	STH 60 WB	325+05	-	368+00	4	1	70	-	-	-	-	-	-
	STH 60 MEDIAN	325+05	-	368+00	-	-	-	-	164	-	440	71	4
	IH 41 NB	265'IH'+00	-	292'IH'+00	-	-	-	-	-	341	-	-	-
	IH 41 SB	265'IH'+00	-	292'IH'+00	-	-	-	-	-	48	-	-	-
	RAMP B	278'B'+77	-	284'B'+05	5	-	45	74	-	-	-	-	-
	RAMP E	264'E'+99	-	273'E'+83	1	-	-	-	-	-	-	-	-
Contract Total					**16**	**5**	**181**	**74**	**164**	**389**	**440**	**71**	**4**
								238					

PAVEMENT MARKING - REMOVALS

CATEGORY	ROADWAY	STA	TO	STA	646.9000 Marking Removal Line 4-Inch LF	646.9055 Marking Removal Line Grooved Contrast Permanent Tape 4-Inch LF	646.9100 Marking Removal Line 8-Inch LF	646.9150 Marking Removal Line Grooved Permanent Tape 8-Inch LF	646.9300 Marking Removal Special Marking EACH	REMARKS
1000	STH 60 EB	327+00	-	333+50	163	-	-	-	-	LANE LINE
		338+52	-	342+36	384	-	-	-	-	OUTSIDE EDGELINE
		343+82	-	346+91	-	-	480	-	-	RAMP A CHANNELIZING LINES
		347+54	-	357+00	946	-	-	-	-	OUTSIDE EDGELINE
	STH 60 WB	342+00	-	345+82	382	-	-	-	-	OUTSIDE EDGELINE
		342+00	-	352+49	262	-	-	-	-	LANE LINE
		346+77	-	353+91	714	-	-	-	-	OUTSIDE EDGELINE
		352+49	-	353+46	-	-	118	-	-	RAMP D CHANNELIZING LINES
		352+49	-	355+54	-	-	312	-	-	RAMP D CHANNELIZING LINES
		356+55	-	365+00	-	-	845	-	-	RIGHT TURN CHANNELIZING LINE
		357+40	-	366+73	-	-	-	-	4	RIGHT TURN MARKINGS
	IH 41 NB	265'IH'+00	-	292'IH'+00	-	753	-	2,476	-	DASHED, DOTTED, AND GORE MARKINGS
	IH 41 SB	266'IH'+00	-	285'IH'+00	-	475	-	993	-	DASHED, DOTTED, AND GORE MARKINGS
Contract Total					**2,851**	**1,228**	**1,755**	**3,469**	**4**	

SAWING

CATEGORY	STAGE	ROADWAY	STA	TO	STA	690.0150 Sawing Asphalt LF	690.0250 Sawing Concrete LF	REMARKS
1000	PRE-STAGE	IH 41 NB	267'IH'+61	-	281'IH'+15	1,354	-	INSIDE SHOULDER WIDENING
		IH 41 SB	270'IH'+53	-	284'IH'+28	1,375	-	INSIDE SHOULDER WIDENING
	STAGE 1	STH 60 EB	347+11	-	347+67	72	-	APPROACH SLAB CONSTRUCTION - INSIDE 16'
			352+94	-	353+42	70	-	APPROACH SLAB CONSTRUCTION - INSIDE 16'
		STH 60 WB	345+62	-	346+89	127	-	RAMP B JOINT
		STH 60 MEDIAN	347+65	-	349+67	333	-	MEDIAN AND LEFT TURN LANE
			352+54	-	353+17	65	18	MEDIAN
		IH 41 SB	266'IH'+24	-	270'IH'+86	472	-	RAMP A TAPER AND GORE
	STAGE 2	STH 60 EB	341+00	-	349+11	835	-	RAMP A TAPER, CORRUGATED SHLD, OUTSIDE SHLD, & APPROACH SLAB - OUTSIDE LN+SHLD
			353+42	-	353+42	18	-	APPROACH SLAB CONSTRUCTION - OUTSIDE LN+SHLD
	STAGE 2A	STH 60 WB	348+65	-	349+13	64	-	APPROACH SLAB CONSTRUCTION - INSIDE 16'
			352+40	-	352+95	70	-	APPROACH SLAB CONSTRUCTION - INSIDE 16'
			353+01	-	355+55	295	-	CORRUGATED SHOULDER
	STAGE 2B	STH 60 WB	348+65	-	348+65	17	-	APPROACH SLAB CONSTRUCTION - OUTSIDE LN+SHLD
			352+95	-	352+95	20	-	APPROACH SLAB CONSTRUCTION - OUTSIDE LN+SHLD
	STAGE 3N2	STH 60 WB	343+80	-	346+88	150	-	DRIVEWAYS
Contract Total						**5,337**	**18**	

3

COLD PATCH

CATEGORY	495.1000.S Cold Patch TON
1000	10
Contract Total	**10**

MOBILIZATION

CATEGORY	619.1000 Mobilization EACH
1000	1
Contract Total	**1**

TRAFFIC CONTROL PROJECT

CATEGORY	643.5000 Traffic Control EACH
1000	1
Contract Total	**1**

3

BIRD DETERRENT

CATEGORY	999.2000.S.01 Installing and Maintaining Bird Deterrent System Station 350+88 WB EACH	999.2000.S.02 Installing and Maintaining Bird Deterrent System Station 351+09 EB EACH
1000	1	1
Contract Total	**1**	**1**

TEMPORARY BARRIER MAINTENANCE

CATEGORY	SPV.0060.15 Emergency Response to Traffic Incident Involving Concrete Barrier Temporary EACH
1000	6
Contract Total	**6**

SECTION MONUMENT

CATEGORY	SPV.0060.16 Section Corner Monuments EACH
1000	1
Contract Total	**1**

SURVEY PROJECT

CATEGORY	SPV.0060.19 Survey Project 2310-09-71 EACH
1000	1
Contract Total	**1**

PAVEMENT CLEANUP

CATEGORY	SPV.0075.01 Pavement Cleanup Project 2310-09-71 HR
1000	200
Contract Total	**200**

FIELD OFFICE

CATEGORY	SPV.0135.01 Field Facilities Office Space MON
1000	7
Contract Total	**7**

IH 41 SB RAMPS & STH 60
WASHINGTON COUNTY
CATEGORY 1500
S66-1503

STATE FURNISHED MATERIALS SUMMARY

EACH	DESCRIPTION
1	TRAFFIC SIGNAL CONTROLLER, FULLY ACTUATED, 8 PHASE
1	TRAFFIC SIGNAL CABINET
1	POLES TYPE 10
2	POLES TYPE 10 SPECIAL
1	MONOTUBE ARMS 30-FT
1	MONOTUBE ARMS 35-FT TYPE 9/10 SPEC POLE
1	MONOTUBE ARMS 40-FT TYPE 9/10 SPEC POLE
4	LUMINAIRE ARMS 15-FT
1	RADAR DETECTOR
3	EVP DETECTOR HEADS

STATE FURNISHED FOR INFORMATION ONLY

SIGNAL BASE NO.		POLES TYPE 10 EACH	POLES TYPE 10 SPECIAL EACH	MONOTUBE ARMS 30-FT EACH	MONOTUBE ARMS 35-FT TYPE 9/10 SPEC POLE EACH	MONOTUBE ARMS 40-FT TYPE 9/10 SPEC POLE EACH	LUMINAIRE ARMS STEEL 15-FT EACH	RADAR DETECTOR EACH	EVP DETECTOR HEADS EACH
SB5		--	1	--	--	1	1	--	1
SB6		--	1	--	1	--	1	--	1
SB8		1	--	1	--	--	2	1	1
	TOTAL	1	2	1	1	1	4	1	3

CONDUIT

FROM	TO	652.0225 CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH L.F.	652.0235 CONDUIT RIGID NONMETALLIC SCHEDULE 40 3-INCH L.F.	652.0605 CONDUIT SPECIAL 2-INCH L.F.	652.0615 CONDUIT SPECIAL 3-INCH L.F.
CB1	PB1	--	39	--	--
PB1	PB2	230	--	--	--
PB1	PB3	--	--	--	90
PB1	SB1	7	--	--	--
PB3	SB2	15	--	--	--
PB3	PB4	--	--	--	56
PB4	PB5	--	254	--	--
PB5	SB3	13	--	--	--
PB5	PB6	--	--	--	102
PB6	SB4	13	--	--	--
PB6	PB7	--	--	--	98
PB7	SB5	--	13	--	--
PB7	PB8	--	98	--	--
PB8	PB9	--	--	--	106
PB9	SB6	--	25	--	--
PB9	PB10	--	240	--	--
PB10	SB7	77	--	--	--
PB10	PB11	--	--	35	--
PB10	PB14	--	--	--	98
PB11	PB12	180	--	--	--
PB12	PB13	161	--	--	--
PB14	SB8	--	--	--	69
PB14	SB9	29	--	--	--
PB14	SB10	7	--	--	--
PB14	PB15	--	--	--	118
PB15	CB1	--	54	--	--
	TOTAL	732	723	35	737

FILE NAME : N:\PDS\C3D\CAD\23100901\SIG\S66-1503\S66-1503_mq.pptx PLOT DATE : 12/5/2025 PLOT BY : DOTSHW PLOT NAME : S66-1503_mq.pdf PLOT SCALE : 1:1

IH 41 SB RAMPS & STH 60
WASHINGTON COUNTY
CATEGORY 1500
S66-1503

TRAFFIC DETECTOR LOOPS

LOOP NO.	HOME RUN PB	LOCATION** ^	SIZE (FT)x(FT)	NO. OF TURNS	SDD INSTALLATION REFERENCE	652.0800 CONDUIT LOOP DETECTOR L.F.	655.0700 LOOP DETECTOR LEAD IN CABLE L.F.	655.0800 LOOP DETECTOR WIRE L.F.
41	PB2	346+19.3, 298.4' LT	6'X6'	4	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	58	253	232
42	PB3	346+38.8, 74.8' LT	6'X20'	3	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	82	69	246
43	PB3	346+27.1, 49.5' LT	6'X20'	3	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	84	69	252
44	PB4	346+68.6, 72.7' LT	6'X20'	3	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	76	97	228
45	PB4	346+68.9, 44.6' LT	6'X20'	3	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	72	97	216
51	PB6	348+00.9, 5.4' LT	6'X20'	3	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	72	275	216
52	PB6	347.72.9, 5.4' LT	6'X20'	3	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	68	275	204
61	PB13	342+51.8, 26.0' RT	6'X16'	4	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	102	511	408
62	PB13	342+51.6, 14.0' RT	6'X16'	4	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	126	511	504
63	PB12	344+12.3, 27.7' RT	6'X10'	4	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	100	350	400
64	PB12	344+12.2, 15.7' RT	6'X10'	4	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	124	350	496
					TOTAL	964	2857	3402

^ FINAL LOCATION TO BE DETERMINED BY THE ENGINEER IN THE FIELD.
** LOCATION IS TO FRONT CENTER OF DETECTOR LOOP

PULL BOXES

PULL BOX NO.	LOCATION ^	653.0135 PULL BOXES STEEL 24x36-INCH EACH	653.0140 PULL BOXES STEEL 24x42-INCH EACH
PB1	346+07.0, 65.4' LT	--	1
PB2	346+00.3, 291.1' LT	1	--
PB3	346+53.8, 66.0' LT	--	1
PB4	346+81.9, 6+66.3' LT	--	1
PB5	347+94.3, 48.1' LT	--	1
PB6	347+94.9, 4.9' RT	--	1
PB7	347+95.5, 53.9' RT	--	1
PB8	347+50.7, 72.9' RT	--	1
PB9	346+98.4, 73.6' RT	--	1
PB10	345+80.2, 51.8' RT	--	1
PB11	345+80.8, 86.5' RT	--	1
PB12	344+13.4, 64.2' RT	1	--
PB13	342+52.7, 58.0' RT	1	--
PB14	345+79.5, 2.9' RT	--	1
PB15	345+78.5, 56.0' LT	--	1
	TOTAL	3	12

^ FINAL LOCATION TO BE DETERMINED BY THE ENGINEER IN THE FIELD.

CONCRETE BASES

SIGNAL BASE NO.	LOCATION ^	654.0101 CONCRETE BASES TYPE 1 EACH	654.0102 CONCRETE BASES TYPE 2 EACH	654.0110 CONCRETE BASES TYPE 10 EACH	654.0120 CONCRETE BASES TYPE 10-SPECIAL EACH	654.0217 CONCRETE CONTROL CABINET BASES TYPE 9 SPECIAL EACH
CB1	345+94.0, 64.6' LT	--	--	--	--	1
SB1	346+13.3, 67.4' LT	--	1	--	--	--
SB2	346+53.6, 50.8' LT	1	--	--	--	--
SB3	347+80.7, 44.5' LT	--	1	--	--	--
SB4	347+81.5, 5.1' RT	1				
SB5	348+08.9, 54.8' RT	--	--	--	1	--
SB6	346+84.0, 52.8' RT	--	--	--	1	--
SB7	346+56.7, 47.4' RT	1	--	--	--	--
SB8	346+46.7, 5.9' LT	--	--	1	--	--
SB9	346+07.8, 2.4' LT	1	--	--	--	--
SB10	345+84.7, 2.1' LT	1	--	--	--	--
	TOTAL	5	2	1	2	1

^ FINAL LOCATION TO BE DETERMINED BY THE ENGINEER IN THE FIELD.

IH 41 SB RAMPS & STH 60
WASHINGTON COUNTY
CATEGORY 1500
S66-1503

TRAFFIC SIGNAL CABLE AND WIRE

FROM	TO	655.0240 CABLE TRAFFIC SIGNAL 7-14 AWG L.F.	655.0260 CABLE TRAFFIC SIGNAL 12-14 AWG L.F.	655.0320 CABLE TYPE UF 2-10 AWG GROUNDED L.F.
CB1	SB1	47	--	--
CB1	SB2	113	--	--
CB1	SB3	298	--	--
CB1	SB4	366		
CB1	SB5	--	430	--
CB1	SB6	--	350	--
CB1	SB7	--	266	--
CB1	SB8	--	189	--
CB1	SB9	153	--	--
CB1	SB10	131	--	--
		--	--	--
CB1	SB1	--	--	43
SB1	SB3	--	--	291
SB3	SB5	--	--	182
		--	--	--
CB1	SB8	--	--	189
SB8	SB5	--	--	319
	TOTAL	1108 *	1235	1024

* ADDITIONAL QUANTITY SHOWN ELSEWHERE ON PLAN

TRAFFIC SIGNAL CABLE AND WIRE

FROM	TO	655.0515 ELECTRICAL WIRE TRAFFIC SIGNALS 10 AWG L.F.
CB1	SB1	47
SB1	SB2	106
SB2	SB3	239
SB3	SB4	118
SB4	SB5	116
SB5	SB6	196
SB6	SB7	262
SB7	SB8	235
SB8	SB9	122
SB9	CB1	149
SB1	PB1	27
SB2	PB3	35
SB2	PB4	79
SB3	PB5	33
SB3	PB6	100
SB5	PB7	35
SB5	PB8	98
SB6	PB9	45
SB7	PB10	97
SB10	PB14	27
CB1	PB15	41
	TOTAL	2207

TRAFFIC SIGNAL CABLE AND WIRE

FROM	TO	655.0230 CABLE TRAFFIC SIGNAL 5-14 AWG L.F.	655.0240 CABLE TRAFFIC SIGNAL 7-14 AWG L.F.
SB7	HEAD 1	19	--
SB5	HEAD 2	65	--
SB5	HEAD 3	65	--
SB3	HEAD 4	19	--
SB8	HAED 5	55	--
SB8	HEAD 6	55	--
SB4	HEAD 7	--	22
SB6	HEAD 8	--	22
SB7	HEAD 9	--	22
SB1	HEAD 10	19	--
SB8	HEAD 11	19	--
SB9	HEAD 12	19	--
SB2	HEAD 13	19	--
SB5	HEAD 14	60	--
SB5	HEAD 15	60	--
	TOTAL	474	66*

* ADDITIONAL QUANTITY SHOWN ELSEWHERE ON PLAN

TRAFFIC SIGNAL CABLE AND WIRE

FROM	TO	655.0610 ELECTRICAL WIRE LIGHTING 12 AWG L.F.
SB1	LUMIN	144
SB3	LUMIN	144
SB4	LUMIN	144
SB5	LUMIN	144
SB7	LUMIN (2)	288
	TOTAL	864

TRAFFIC SIGNAL EVP DETECTOR CABLE

FROM	TO	655.0900 TRAFFIC SIGNAL EVP DETECTOR CABLE L.F.
CB1	SB8 (HEAD A)	199
CB1	SB5 (HEAD B)	438
CB1	SB6 (HEAD C)	356
	TOTAL	993

ELECTRICAL SERVICE METER BREAKER PEDESTAL

LOCATION ^	656.0201.01 ELECTRICAL SERVICE METER BREAKER PEDESTAL EACH
IH 41 SB RAMPS & STH 60	1
TOTAL	1

^ FINAL LOCATION TO BE DETERMINED BY THE ENGINEER IN THE FIELD

IH 41 SB RAMPS & STH 60
WASHINGTON COUNTY
CATEGORY 1500
S66-1503

POLES (CONTRACTOR FURNISHED)

SIGNAL BASE NO.	657.0100 PEDESTAL BASES EACH	657.0255 TRANSFORMER BASES BREAKAWAY 11 1/2-INCH BOLT CIRCLE EACH	657.0310 POLES TYPE 3 EACH	657.0420 TRAFFIC SIGNAL STANDARDS ALUMINUM 13-FT EACH	657.0425 TRAFFIC SIGNAL STANDARDS ALUMINUM 15-FT EACH	657.0609 LUMINAIRE ARMS SINGLE MEMBER 4-INCH CLAMP 6-FT EACH	659.1125 LUMINAIRES UTILITY LED C EACH
SB1	--	1	1	--	--	1	1
SB2	1	--	--	1	--	--	--
SB3	--	1	1	--	--	1	1
SB4	1			1			
SB7	1	--	--	--	1	--	--
SB9	1	--	--	1	--	--	--
SB10	1	--	--	1	--	--	--
TOTAL	5	2	2	4	1	2	2*

* ADDITIONAL QUANTITY SHOWN ELSEWHERE ON PLAN
^ STATE SUPPLIED ITEM FOR INFORMATION ONLY

POLES (STATE FURNISHED)

SIGNAL BASE NO.	SPV.0060.01 INSTALL POLES TYPE 10 EACH	SPV.0060.02 INSTALL POLES TYPE 10 SPECIAL EACH	SPV.0060.03 INSTALL MONOTUBE ARMS 30-FT EACH	SPV.0060.04 INSTALL MONOTUBE ARMS 35-FT TYPE 9/10 SPEC POLE EACH	SPV.0060.05 INSTALL MONOTUBE ARMS 40-FT TYPE 9/10 SPEC POLE EACH	SPV.0060.06 INSTALL LUMINAIRE ARMS STEEL 15-FT EACH	659.1125 LUMINAIRES UTILITY LED C EACH
SB5	--	1	--	--	1	1	1
SB6	--	1	--	1	--	1	1
SB8	1	--	1	--	--	2	2
TOTAL	1	2	1	1	1	4	4*

* ADDITIONAL QUANTITY SHOWN ELSEWHERE ON PLAN

FACES

SIGNAL HEAD NO.	SIGNAL BASE NO.	658.0173 TRAFFIC SIGNAL FACE 3S 12-INCH EACH	658.0174 TRAFFIC SIGNAL FACE 4S 12-INCH EACH
1	SB7	1	--
2	SB5	1	--
3	SB5	1	--
4	SB3	1	--
5	SB8	1	--
6	SB8	1	--
7	SB4	--	1
8	SB7	--	1
9	SB8	--	1
10	SB1	1	--
11	SB9	1	--
12	SB10	1	--
13	SB2	1	--
14	SB6	1	--
15	SB6	1	--
	TOTAL	12	3

3

SIGNAL MOUNTING HARDWARE

LOCATION	658.5070.01 SIGNAL MOUNTING HARDWARE EACH
IH 41 SB RAMPS & STH 60	1
TOTAL	1

TRANSPORT AND INSTALL STATE FURNISHED RADAR DETECTION SYSTEM

LOCATION	SPV.0060.08 TRNSPT & INSTALL STATE FURN RADAR DETECT SYS EACH
IH 41 SB RAMPS & STH 60	1
TOTAL	1

EVP DETECTOR HEAD INSTALLATION

LOCATION	SPV.0060.10 TRNSPT & INSTALL STATE FURN EVP HEADS EACH
IH 41 SB RAMPS & STH 60	1
TOTAL	1

TRANSPORT AND INSTALL STATE FURNISHED TRAFFIC SIGNAL CABINET

LOCATION	SPV.0060.07 TRNSPT AND INSTALL STATE FURN TRAFFIC SIGNAL CABINET EACH
IH 41 SB RAMPS & STH 60	1
TOTAL	1

TRANSPORT TRAFFIC SIGNAL AND INTERSECTION LIGHTING MATERIALS

LOCATION	SPV.0060.09 TRNSPT TRAFFIC SIGNAL & INTER LIGHTING MATERIALS EACH
IH 41 SB RAMPS & STH 60	1
TOTAL	1

LEGEND

(?)SAN — EXISTING UTILITIES SHOWN IN MAGENTA ARE APPROXIMATE LOCATIONS BASED ON SYSTEM MAPS

SAN — EXISTING UTILITIES SHOWN IN COLOR WERE SURVEYED BASED ON FIELD MARKINGS

WE ENERGIES ELECTRIC

EXISTING R/W

EDGE OF TRAPEZOIDAL DITCH

SI

R/L 'A'

264'A'+00 265'A'+00 266'A'+00 267'A'+00 268'A'+00 269'A'+00 270'A'+00 271'A'

RAMP A (SB ON-RAMP)

BEGIN CONSTRUCTION
STA 266'A'+23.84

BEGIN CONSTRUCTION RAMP A
STA 267+55.60 'A', 0.00'
STA 267+55.56 'IH', -51.00' LT

DITCH C/L

MATCH LINE 271+03.96

264'IH'+00 265'IH'+00 266'IH'+00 267'IH'+00 268'IH'+00 269'IH'+00 270'IH'+00 271'IH'+00

R/L IH 41

IH 41 SB

IH 41 NB

5

5

VCL = 321.75

K = 157.00

STA 267+55.59
EL 1093.61

PROPOSED PROFILE

0.70%

ORIGINAL GROUND

BEGIN CONSTRUCTION
RAMP A
267+55.60 'A'

VPC STA 268+85.43
VPC EL 1094.52

VPI STA 270+46.30
VPI EL 1095.65

1100 1095 1090 1085

263	264	265	266	267	268	269	270	271
	1089.73	1090.56	1091.60	1092.13	1092.64	1093.12	1093.56	1093.94
	1093.92	1094.21	1094.27	1094.50	1094.63	1094.85	1095.11	1095.51
	1095.74	1096.54	1096.54	1097.41	1097.49			

PROJECT NO: 2310-09-71	HWY: STH 60	COUNTY: WASHINGTON	PLAN AND PROFILE: RAMP A (SB ON-RAMP)	SHEET 246	E

FILE NAME : K:\195704_STH 60 AND IH 41 INTERSECTION\3.0 DELIVERABLES\3.02 ROADWAY\AUTOCAD\SHEETS\050101-PP.DWG
LAYOUT NAME - 01

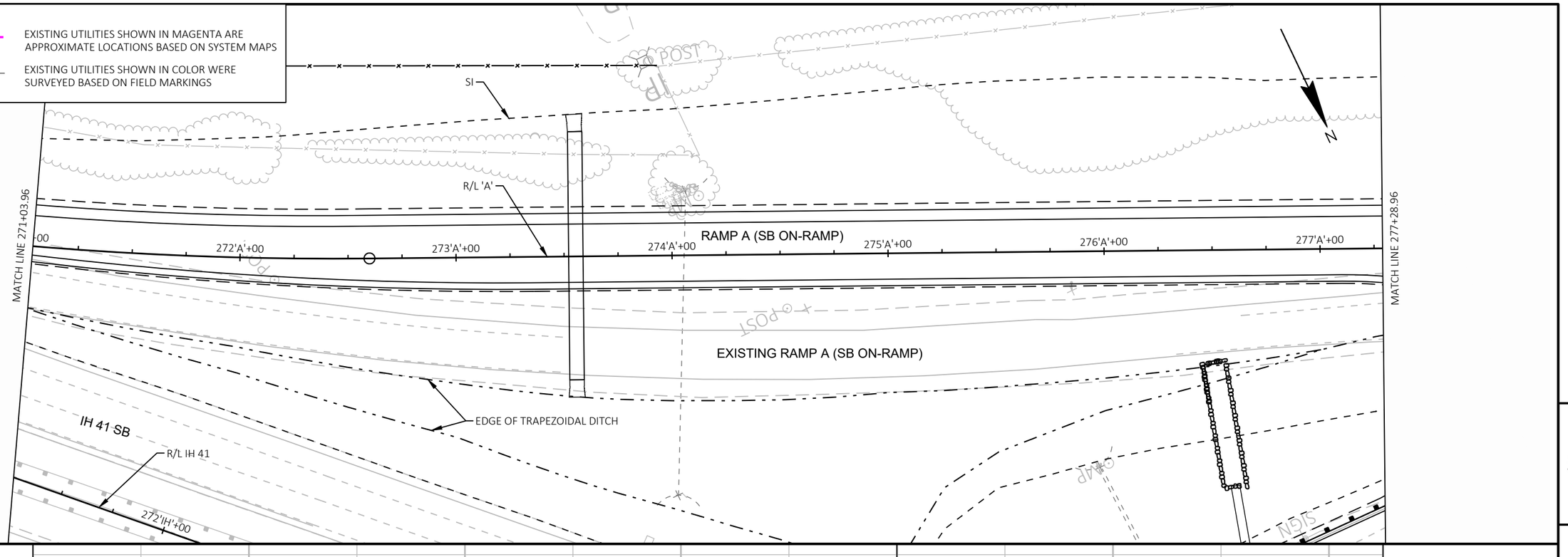
PLOT DATE : 10/23/2025 3:19 PM PLOT BY : OLSEN, CASSIE PLOT NAME : PLOT SCALE : 1 IN:50 FT

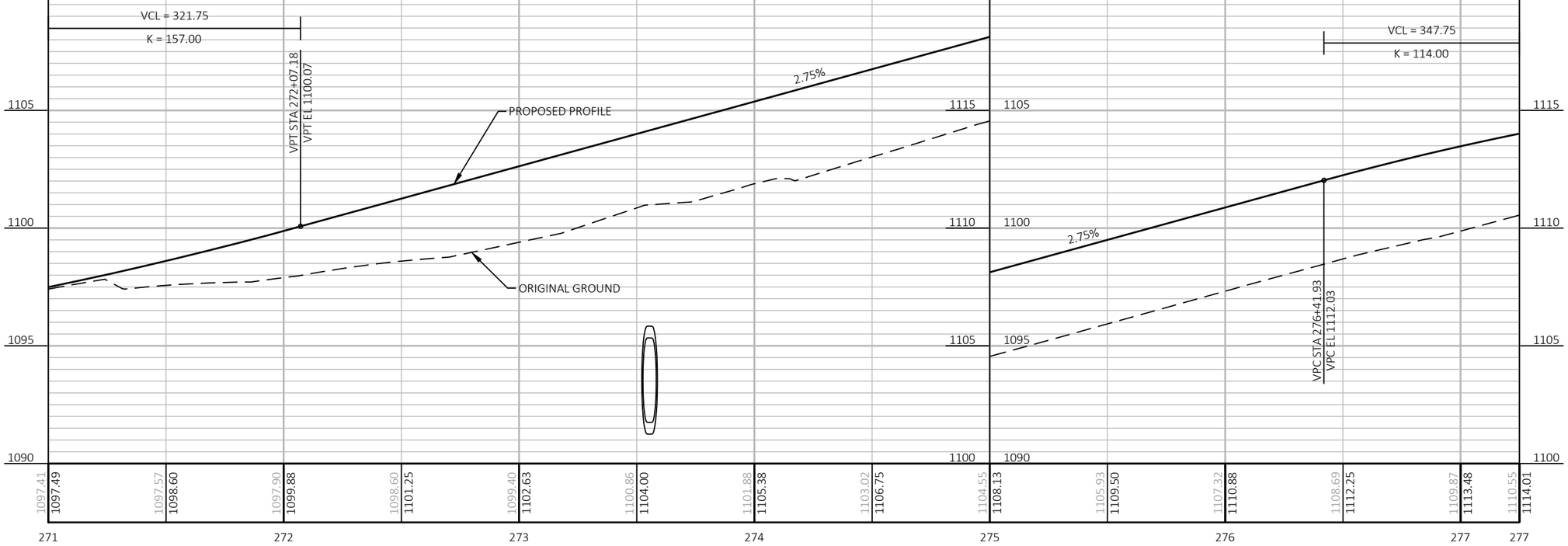
WISDOT/CADDS SHEET 44

LEGEND

(?)SAN — EXISTING UTILITIES SHOWN IN MAGENTA ARE APPROXIMATE LOCATIONS BASED ON SYSTEM MAPS

SAN — EXISTING UTILITIES SHOWN IN COLOR WERE SURVEYED BASED ON FIELD MARKINGS





PROJECT NO: 2310-09-71	HWY: STH 60	COUNTY: WASHINGTON	PLAN AND PROFILE: RAMP A (SB ON-RAMP)	SHEET 247 E

FILE NAME : K:\195704_STH 60 AND IH 41 INTERSECTION\3.0 DELIVERABLES\3.02 ROADWAY\AUTOCAD\SHEETS\050101-PP.DWG
LAYOUT NAME - 02

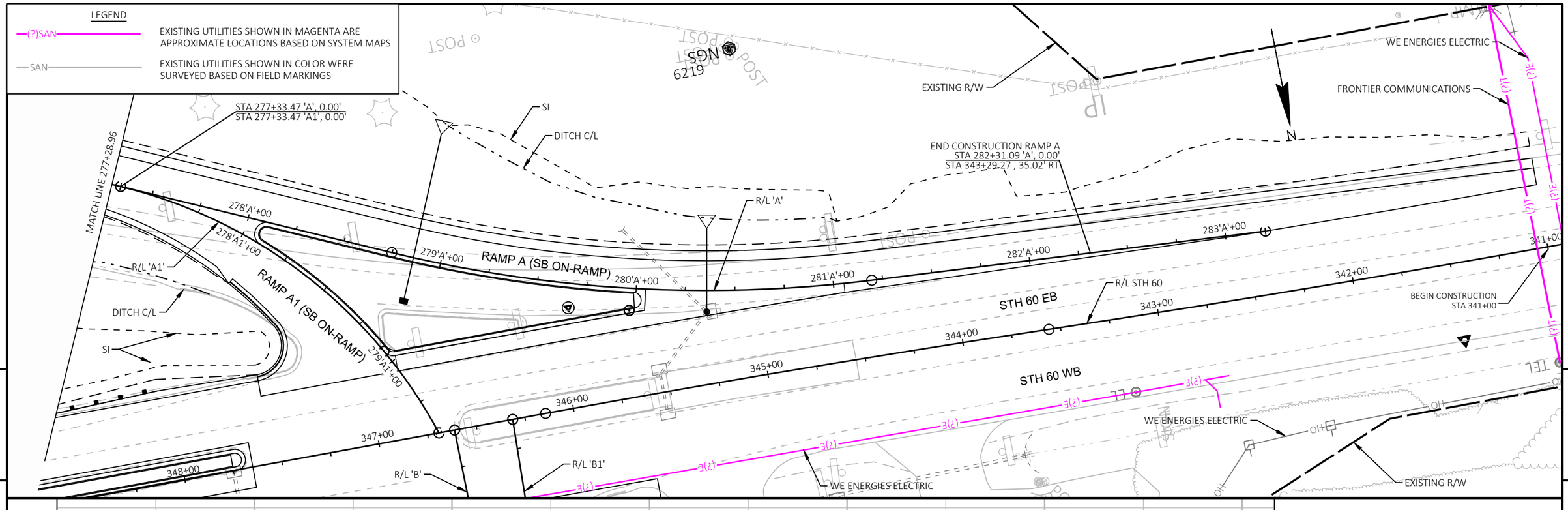
PLOT DATE : 10/23/2025 3:21 PM PLOT BY : OLSEN, CASSIE PLOT NAME : PLOT SCALE : 1 IN:50 FT

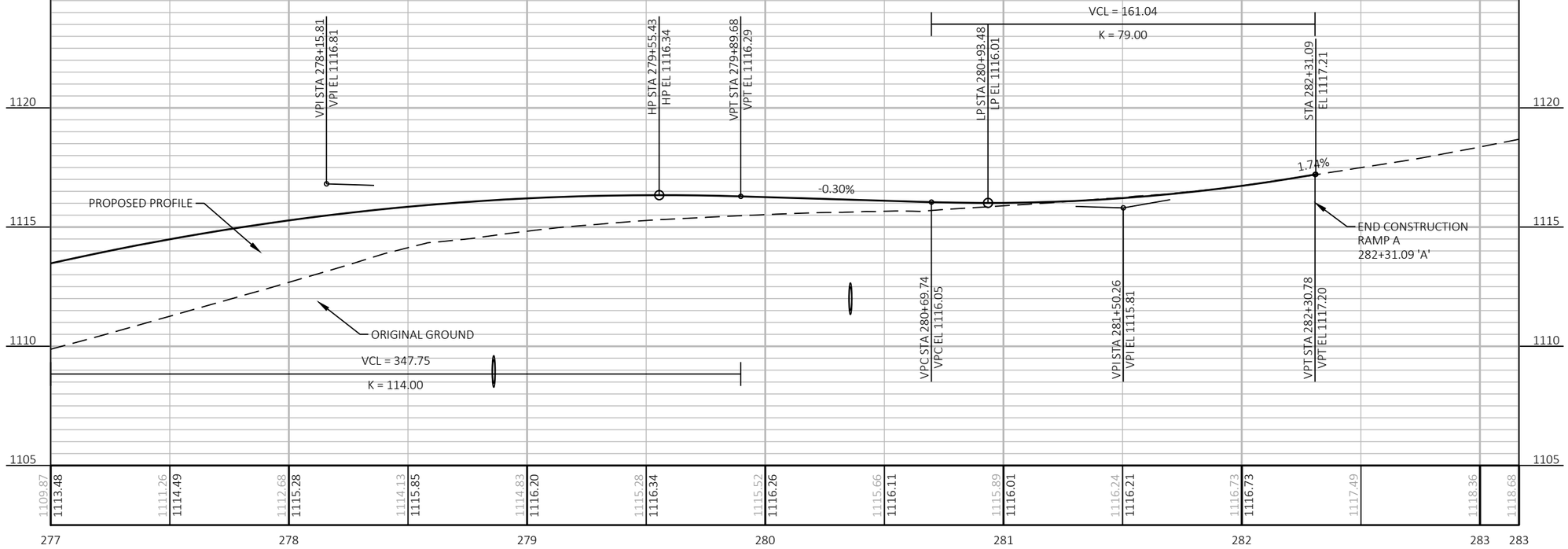
WISDOT/CADDS SHEET 44

LEGEND

(?)SAN — EXISTING UTILITIES SHOWN IN MAGENTA ARE APPROXIMATE LOCATIONS BASED ON SYSTEM MAPS

SAN — EXISTING UTILITIES SHOWN IN COLOR WERE SURVEYED BASED ON FIELD MARKINGS





PROJECT NO: 2310-09-71	HWY: STH 60	COUNTY: WASHINGTON	PLAN AND PROFILE: RAMP A (SB ON-RAMP)	SHEET 248 E

FILE NAME : K:\195704_STH 60 AND IH 41 INTERSECTION\3.0 DELIVERABLES\3.02 ROADWAY\AUTOCAD\SHEETS\050101-PP.DWG
LAYOUT NAME - 03

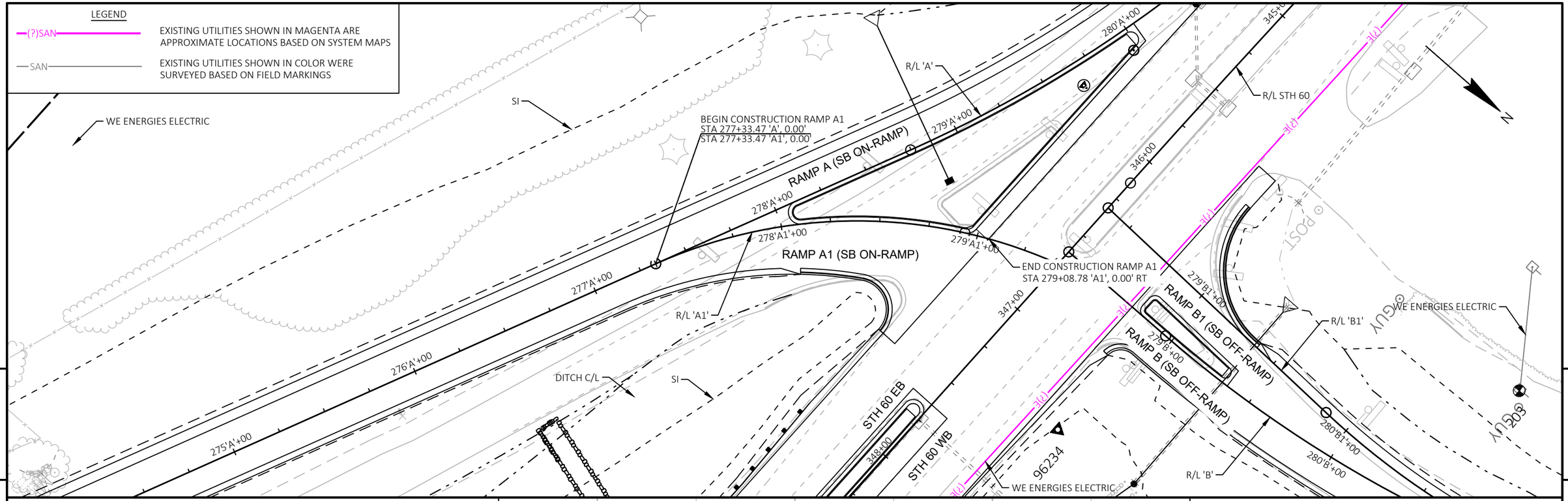
PLOT DATE : 10/23/2025 3:23 PM PLOT BY : OLSEN, CASSIE PLOT NAME : PLOT SCALE : 1 IN:50 FT

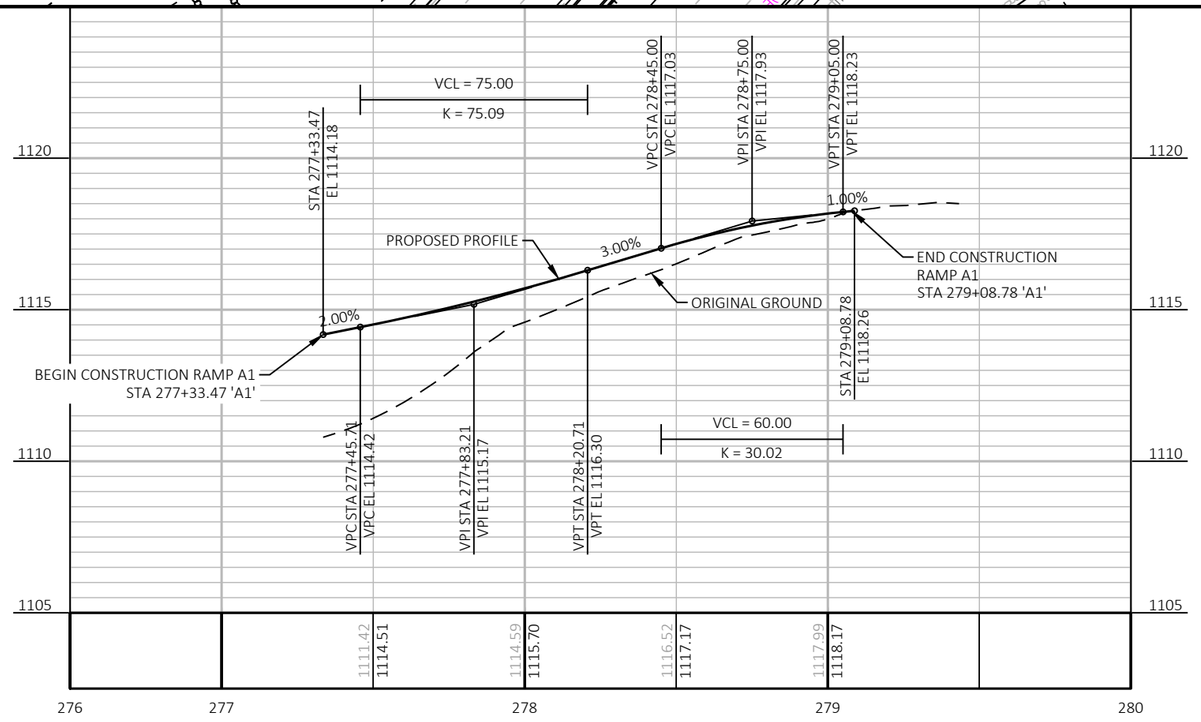
WISDOT/CADDS SHEET 44

LEGEND

(?)SAN — EXISTING UTILITIES SHOWN IN MAGENTA ARE APPROXIMATE LOCATIONS BASED ON SYSTEM MAPS

SAN — EXISTING UTILITIES SHOWN IN COLOR WERE SURVEYED BASED ON FIELD MARKINGS





PROJECT NO: 2310-09-71	HWY: STH 60	COUNTY: WASHINGTON	PLAN AND PROFILE: RAMP A1 (SB ON-RAMP)	SHEET 249	E

FILE NAME : K:\195704_STH 60 AND IH 41 INTERSECTION\3.0 DELIVERABLES\3.02 ROADWAY\AUTOCAD\SHEETS\050101-PP.DWG
LAYOUT NAME - 05

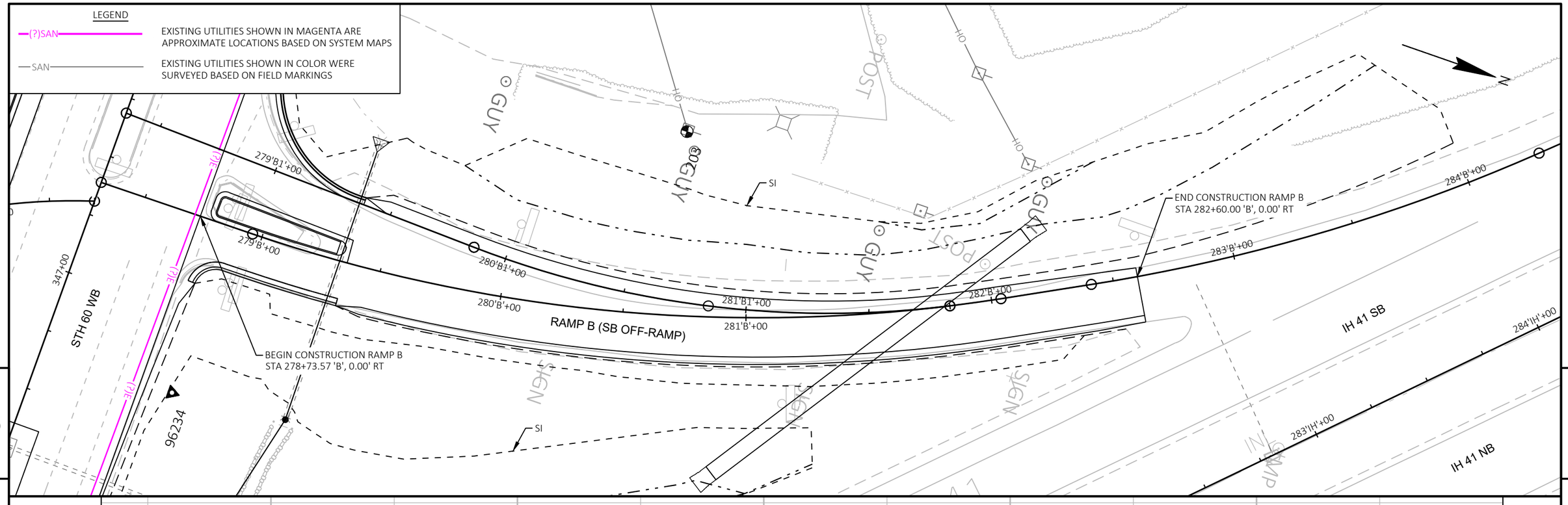
PLOT DATE : 10/23/2025 3:26 PM PLOT BY : OLSEN, CASSIE PLOT NAME : PLOT SCALE : 1 IN:50 FT

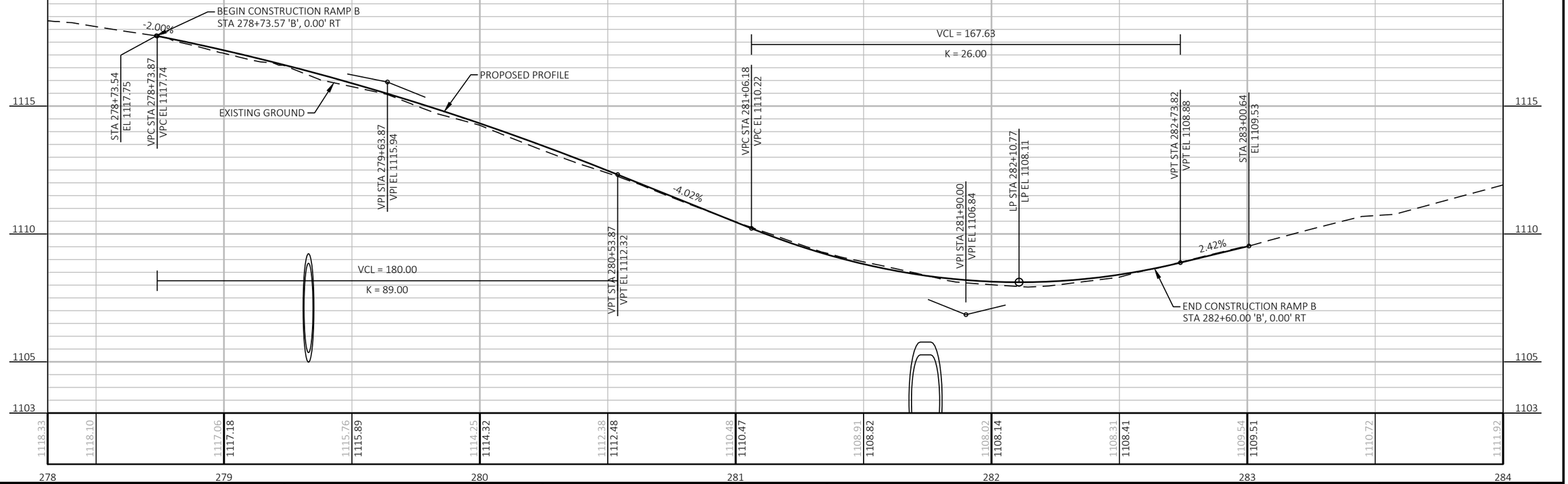
WISDOT/CADDS SHEET 44

LEGEND

(?)SAN — EXISTING UTILITIES SHOWN IN MAGENTA ARE APPROXIMATE LOCATIONS BASED ON SYSTEM MAPS

SAN — EXISTING UTILITIES SHOWN IN COLOR WERE SURVEYED BASED ON FIELD MARKINGS





PROJECT NO: 2310-09-71	HWY: STH 60	COUNTY: WASHINGTON	PLAN AND PROFILE: PLAN AND PROFILE	SHEET 250	E

LEGEND

(?)SAN — EXISTING UTILITIES SHOWN IN MAGENTA ARE APPROXIMATE LOCATIONS BASED ON SYSTEM MAPS

SAN — EXISTING UTILITIES SHOWN IN COLOR WERE SURVEYED BASED ON FIELD MARKINGS

NOTES:
1. FOR MORE DETAILS ABOUT THE STRUCTURE WORK IN THIS PROJECT SEE STRUCTURE PLANS

N

5

5

BEGIN PROJECT
STA 341+00.00
Y=148,201.694
X=343,257.556

FRONTIER COMMUNICATIONS
WE ENERGIES ELECTRIC
EXISTING R/W
WE ENERGIES ELECTRIC
WE ENERGIES ELECTRIC
WE ENERGIES ELECTRIC
FRONTIER COMMUNICATIONS
BASE PATCHING AT PROPOSED LOOPS, VERIFY LOCATION WITH SIGNAL PLAN
EXISTING R/W

STH 60 WB
STH 60 EB
340
345
350
R/L STH 60
CLEANING STORM SEWER
CLEANING STORM SEWER
ADJUSTING INLETS

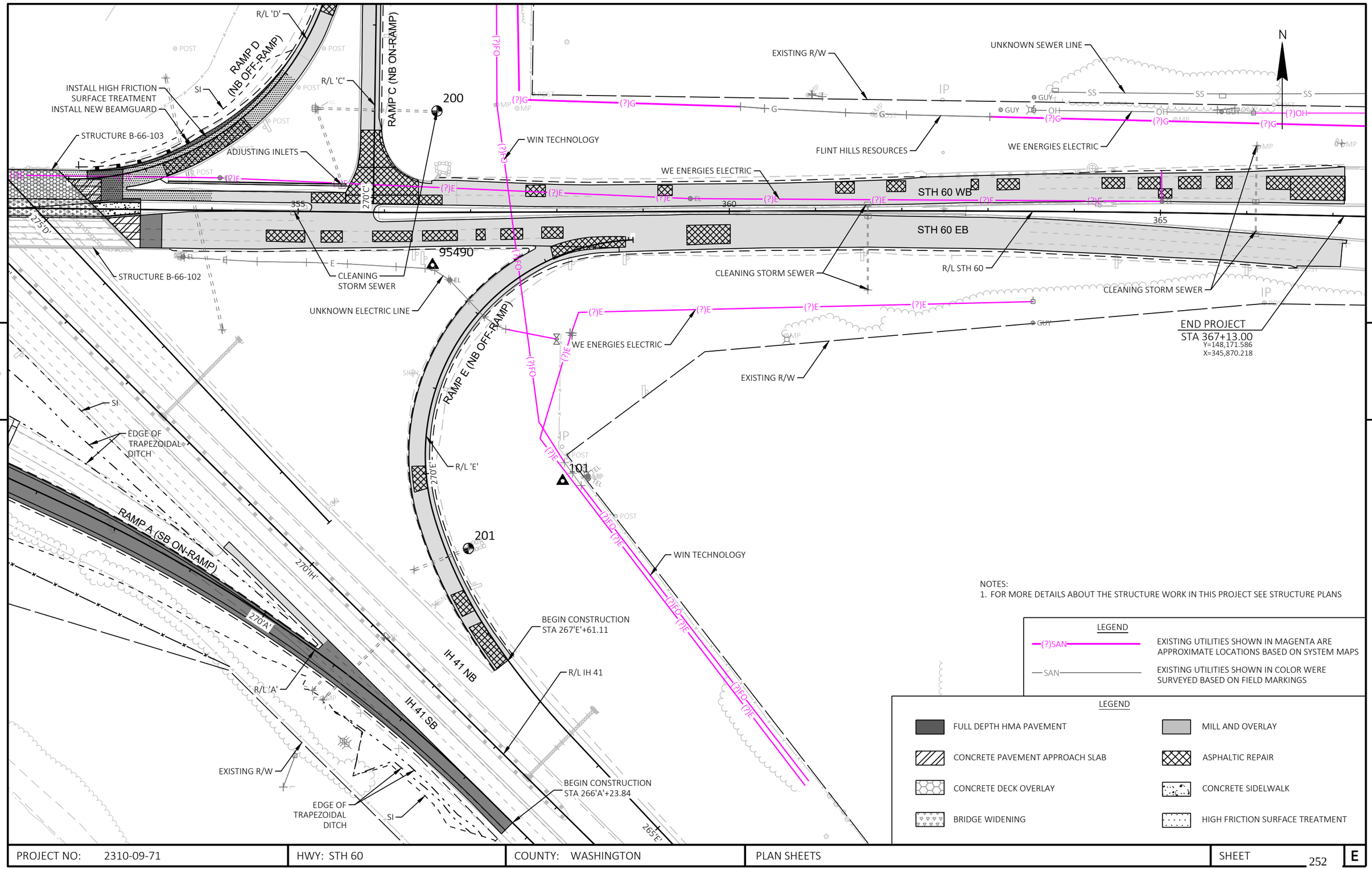
SI
END CONSTRUCTION
STA 282'B'+60
43X68-INCH CPRCHE
203
R/L IH 41
IH 41 NB
IH 41 SB
280'IH'
RAMP B (SB OFF-RAMP)
280'B1'
280'B'
R/L 'B1'
R/L 'B'
42-INCH SSPRC
48-INCH SSPRC
96234
204
280'D'
R/L 'D'
RAMP D (NB OFF-RAMP)
BEGIN CONSTRUCTION
STA 277'D'+40
SI

STRUCTURE B-66-103
SEC 16-10-19
WISDOT PID
1019084
95981
STRUCTURE B-66-102
275'D'
275'IH'
INSTALL NEW BEAMGUARD
R/L 'A1'
SI
EDGE OF TRAPEZOIDAL DITCH
96804
280'A'
12-INCH SSPRC
DITCH C/L
SI
6219
NGS
12-INCH SSPRC
R/L 'A'
RAMP A (SB ON-RAMP)
275'A'
43X68-INCH CPRCHE

LEGEND

FULL DEPTH HMA PAVEMENT	MILL AND OVERLAY
CONCRETE PAVEMENT APPROACH SLAB	ASPHALTIC REPAIR
CONCRETE DECK OVERLAY	CONCRETE SIDELWALK
BRIDGE WIDENING	HIGH FRICTION SURFACE TREATMENT

PROJECT NO: 2310-09-71	HWY: STH 60	COUNTY: WASHINGTON	PLAN SHEETS	SHEET 251	E



NOTES:
1. FOR MORE DETAILS ABOUT THE STRUCTURE WORK IN THIS PROJECT SEE STRUCTURE PLANS

LEGEND

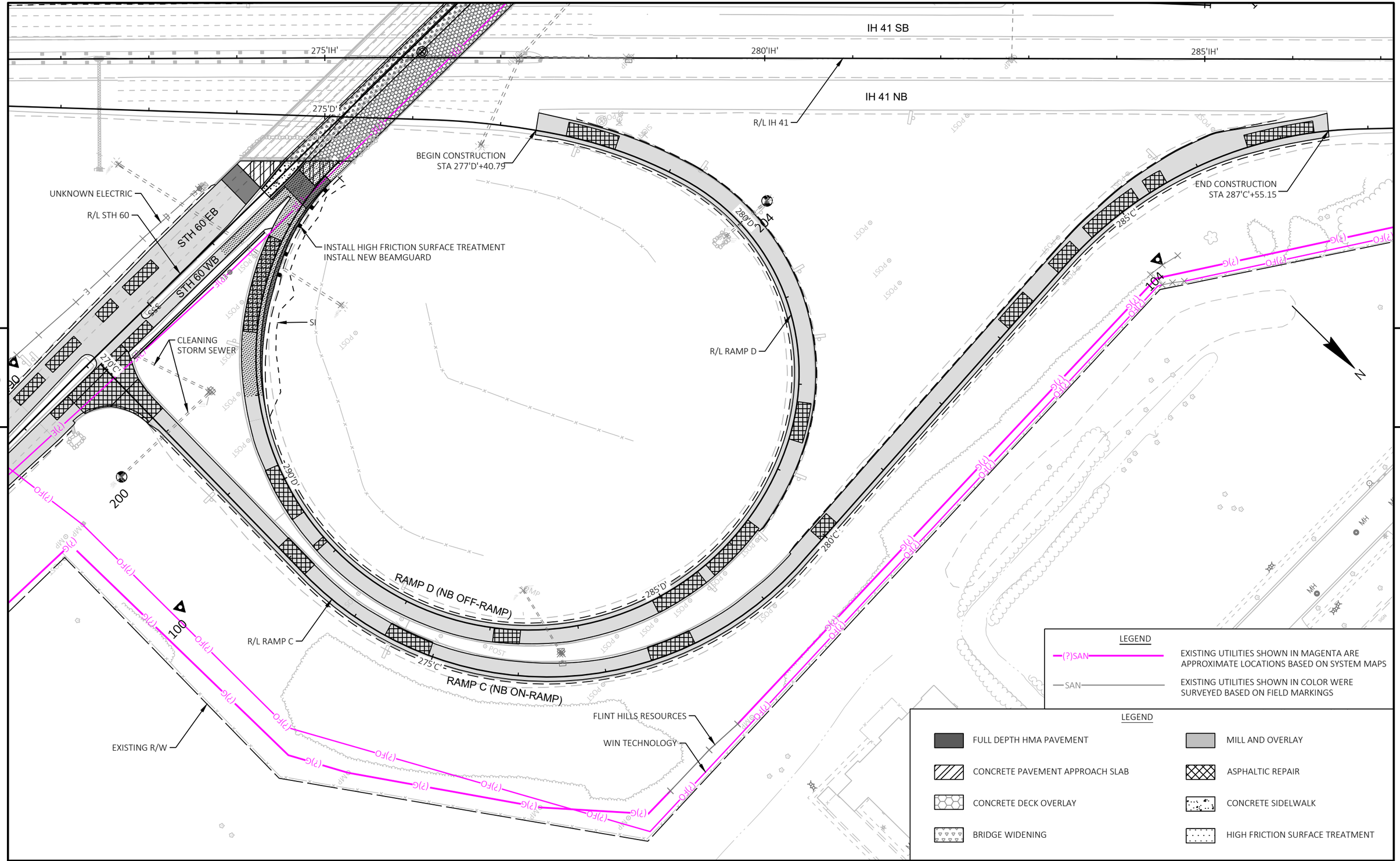
(?)SAN	EXISTING UTILITIES SHOWN IN MAGENTA ARE APPROXIMATE LOCATIONS BASED ON SYSTEM MAPS
SAN	EXISTING UTILITIES SHOWN IN COLOR WERE SURVEYED BASED ON FIELD MARKINGS

LEGEND

FULL DEPTH HMA PAVEMENT	MILL AND OVERLAY
CONCRETE PAVEMENT APPROACH SLAB	ASPHALTIC REPAIR
CONCRETE DECK OVERLAY	CONCRETE SIDELWALK
BRIDGE WIDENING	HIGH FRICTION SURFACE TREATMENT

PROJECT NO: 2310-09-71	HWY: STH 60	COUNTY: WASHINGTON	PLAN SHEETS	SHEET 252	E

FILE NAME : K:\195704_STH 60 AND IH 41 INTERSECTION\3.0 DELIVERABLES\3.02 ROADWAY\AUTOCAD\SHEETS\050201-PN.DWG
LAYOUT NAME - 050201-pn_02
PLOT DATE : 12/15/2025 12:14 PM PLOT BY : OLSEN, CASSIE PLOT NAME : PLOT SCALE : 1 IN:100 FT



5

5

PROJECT NO: 2310-09-71	HWY: STH 60	COUNTY: WASHINGTON	PLAN SHEETS	SHEET 253	E

FILE NAME : K:\195704_STH 60 AND IH 41 INTERSECTION\3.0 DELIVERABLES\3.02 ROADWAY\AUTOCAD\SHEETS\050201-PN.DWG
LAYOUT NAME - 050201-pn_03

PLOT DATE : 12/15/2025 12:16 PM PLOT BY : OLSEN, CASSIE PLOT NAME : PLOT SCALE : 1 IN:100 FT

Standard Detail Drawing List

08A05-22B	INLET COVERS TYPE B, B-A, C, MS, MS-A, DW & WM
08A05-22D	INLET COVERS TYPE V, V-B, & VV-B
08A05-22E	INLET COVER TYPE BW, MANHOLE COVERS, TYPE K, J, J-S, L & M
08B09-04	MANHOLES 3-FT, 4-FT, 5-FT, 6-FT, 7-FT, 8-FT, 9-FT, 10-FT DIAMETER
08C07-03	INLETS 2X2-FT, 2X2.5-FT, 2X3-FT, 2.5X3-FT & 2X3.5-FT
08C08-03	INLETS MEDIAN 1 AND 2 GRATE
08D01-24A	CONCRETE CURB & GUTTER
08D01-24B	CONCRETE CURB, TIES AND CURB AND GUTTER APPLICATIONS
08D02-08A	CONCRETE SURFACE DRAINS FLUME TYPE AT STRUCTURES
08D02-08B	CONCRETE SURFACE DRAINS FLUME TYPE AT STRUCTURES
08D02-08C	CONCRETE SURFACE DRAINS FLUME TYPE AT STRUCTURES
08D03-09A	CONCRETE SURFACE DRAINS DROP INLET TYPE AT STRUCTURES
08D03-09B	CONCRETE SURFACE DRAINS DROP INLET TYPE AT STRUCTURES
08D04-07	CONCRETE SURFACE DRAINS & ASPHALTIC FLUMES
08D15-05A	EDGEDRAIN OUTLET AND OUTFALL MARKERS
08E08-03	TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS
08E09-06	SILT FENCE
08E10-02	INLET PROTECTION TYPE A, B, C AND D
08E14-01	TRACKING PAD
08E15-01	CULVERT PIPE CHECK
08F01-11	APRON ENDWALLS FOR CULVERT PIPE
08F02-01	APRON ENDWALLS FOR PIPE ARCH AND ELLIPTICAL PIPE
08F04-08	JOINT TIES FOR CONCRETE PIPE AND CONCRETE COLLAR DETAIL
09A01-14A	AT-GRADE SIDE ROAD INTERSECTION, TYPES "B1", "B2", "C" AND D AND TEE INTERSECTION BYPASS LANE
09A01-14B	AT-GRADE SIDE ROAD INTERSECTION, TYPE "A1" & "A2"
09B02-10	CONDUIT
09B04-13	PULL BOX
09C02-09	CONCRETE BASES, TYPES 1, 2, 5, & 6
09C03-04	TRANSFORMER/PEDESTAL BASES
09C05-10	CONCRETE CONTROL CABINET BASES
09C06-07	CONCRETE CONTROL CABINET BASE, TYPE 9, SPECIAL
09C11-10	CONCRETE BASE TYPE 10
09C15-02	CONCRETE BASE TYPE 10 SPECIAL
09D01-05	CABINET SERVICE INSTALLATION (METER BREAKER PEDESTAL)
09E01-15B	POLE MOUNTINGS FOR TRAFFIC SIGNALS AND LIGHTING UNITS, TYPE 3 (HEAVY DUTY)
09E01-15G	HARDWARE DETAILS FOR POLE MOUNTINGS
09E08-09B	TYPE 9 SPECIAL POLE 35' MONOTUBE ARM
09E08-09C	TYPE 9 SPECIAL POLE 40' MONOTUBE ARM
09E08-09E	TYPE 10 POLE 15'-30' MONOTUBE ARM
09E08-09F	TYPE 10 SPECIAL POLE 35' MONOTUBE ARM
09E08-09G	TYPE 10 SPECIAL POLE 40' MONOTUBE ARM
09E08-09K	GENERAL NOTES, HARDWARE DETAILS FOR TYPE 9, 10, 9/10 SPECIAL,12 & 13 POLES W/ MONOTUBE ARMS
09F15-04B	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)
11B01-05	CONCRETE CORRUGATED MEDIAN
11B02-02	CONCRETE MEDIAN NOSE
13A05-06A	SHOULDER RUMBLE STRIPS, DIVIDED ROADWAY
13A05-06B	SHOULDER RUMBLE STRIPS, DIVIDED ROADWAY
13B02-09A	CONCRETE PAVEMENT APPROACH SLAB
13C19-03	HMA LONGITUDINAL JOINTS
14B07-16A	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-16B	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-16C	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-16D	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-16E	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-16F	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-16G	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-16H	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-16I	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-16J	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-16K	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-16L	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-16M	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-16N	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B08-02A	CRASH CUSHION/SAND BARREL ARRAY AND OTHER TEMPORARY BARRIER LAYOUT DETAILS
14B08-02B	CRASH CUSHION/SAND BARREL ARRAY AND OTHER TEMPORARY BARRIER LAYOUT DETAILS
14B08-02C	CRASH CUSHION/SAND BARREL ARRAY AND OTHER TEMPORARY BARRIER LAYOUT DETAILS

6

Standard Detail Drawing List

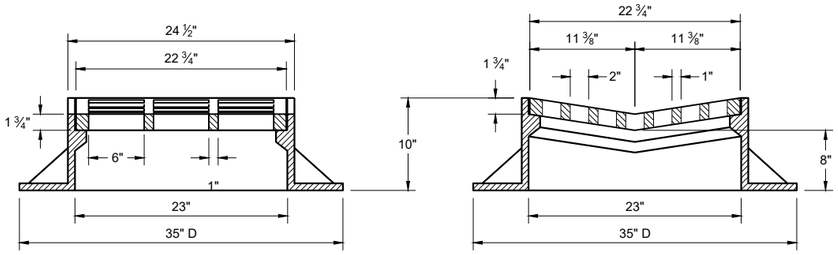
14B08-02D	CRASH CUSHION/SAND BARREL ARRAY AND OTHER TEMPORARY BARRIER LAYOUT DETAILS
14B08-02E	CRASH CUSHION/SAND BARREL ARRAY AND OTHER TEMPORARY BARRIER LAYOUT DETAILS
14B26-05A	STEEL THRIE BEAM BULLNOSE TERMINAL
14B26-05B	STEEL THRIE BEAM BULLNOSE TERMINAL
14B26-05C	STEEL THRIE BEAM BULLNOSE TERMINAL
14B26-05D	STEEL THRIE BEAM BULLNOSE TERMINAL
14B26-05E	STEEL THRIE BEAM BULLNOSE TERMINAL
14B26-05F	STEEL THRIE BEAM BULLNOSE TERMINAL
14B26-05G	STEEL THRIE BEAM BULLNOSE TERMINAL
14B26-05H	STEEL THRIE BEAM BULLNOSE TERMINAL
14B42-07A	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-07B	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-07C	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-07D	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B44-04A	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B44-04B	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B44-04C	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B45-05A	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-05B	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-05C	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-05D	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-05E	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-05F	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-05G	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-05H	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-05I	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-05J	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-05K	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-05L	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
15A03-02A	FLEXIBLE MARKER POST FOR CULVERT END
15A03-02B	FLEXIBLE MARKER POST FOR CULVERT END
15A04-08C	DELINEATOR POST WITH REFLECTIVE SHEETING
15A04-08E	DELINEATOR POST WITH REFLECTIVE SHEETING
15B01-08A	FENCE WOVEN WIRE
15B01-08B	FENCE WOVEN WIRE
15C02-09A	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-09B	BARRICADES AND SIGNS FOR VARIOUS CLOSURES
15C02-09C	DETOUR SIGNING FOR MAINLINE CLOSURES
15C02-09D	ON RAMP LANE CLOSURE
15C02-09E	OFF RAMP LANE CLOSURE
15C02-09F	ADVANCED WIDTH RESTRICTION SIGNING
15C02-09G	TRAFFIC CONTROL FOR ENTRANCE RAMP CLOSURE
15C02-09H	MODIFIED ROUTE ASSEMBLY FOR DETOUR SIGNING
15C07-16A	PAVEMENT MARKING SYMBOLS
15C07-16B	PAVEMENT MARKING WORDS
15C07-16C	PAVEMENT MARKING ARROWS
15C08-24A	PERMANENT LONGITUDINAL PAVEMENT MARKINGS
15C08-24B	TEMPORARY LONGITUDINAL PAVEMENT MARKING
15C08-24C	PAVEMENT MARKING (TURN LANES)
15C08-24D	PAVEMENT MARKING (TURN LANES)
15C11-10A	CHANNELIZING DEVICES FLEXIBLE TUBULAR MARKER POST
15C11-10B	CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS
15C18-09A	MEDIAN ISLAND PAVEMENT MARKINGS
15C18-09B	PAVEMENT MARKINGS, MEDIAN ISLAND NOSE
15C18-09C	MEDIAN PAVEMENT MARKINGS DOUBLE ARROW WARNING SIGN PLACEMENT
15C19-10B	MOVING PAVEMENT MARKING OPERATION MULTI-LANE UNDIVIDED ROADWAY
15C19-10C	MOVING PAVEMENT MARKING OPERATION MULTI-LANE DIVIDED ROADWAY
15C31-08A	PAVEMENT MARKING EXIT RAMP AND PARALLEL EXIT RAMP
15C31-08C	PAVEMENT MARKING ENTRANCE RAMP AND PARALLEL ENTRANCE RAMP
15C33-05	STOP LINE AND CROSSWALK PAVEMENT MARKING
15C35-06A	PAVEMENT MARKING (INTERSECTIONS)
15D12-15A	TRAFFIC CONTROL, LANE CLOSURE
15D12-15D	TRAFFIC CONTROL, LANE CLOSURE, BASIC TRAFFIC QUEUE WARNING SYSTEM
15D15-08E	TRAFFIC CONTROL, PARALLEL EXIT RAMP WITHIN LANE CLOSURE
15D16-06	TRAFFIC CONTROL, EXIT RAMP CLOSURE
15D27-04	TRAFFIC CONTROL, SHOULDER CLOSURE ON DIVIDED ROADWAY, SPEEDS GREATER THAN 40 MPH

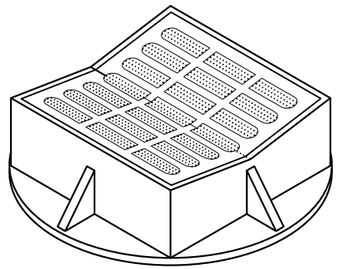
6

Standard Detail Drawing List

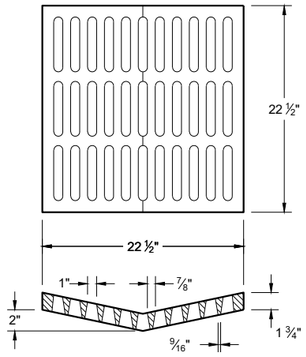
15D39-03	TRAFFIC CONTROL, DROP-OFF SIGNING
15D40-06B	TRAFFIC CONTROL, FULL LANE SHIFT MULTILANE DIVIDED 50 MPH AND OVER
15D40-06D	TRAFFIC CONTROL, PARTIAL LANE SHIFT MULTILANE DIVIDED 50 MPH AND GREATER
15D41-05A	TRAFFIC CONTROL, MULTIPLE LANE SHIFT, MULTILANE DIVIDED ROAD
15D42-04	TRAFFIC CONTROL, TWO LANE FULL FREEWAY CLOSURE
15D43-02	TRAFFIC CONTROL, SHORT DURATION MOBILE OPERATIONS
15D44-02	TRAFFIC CONTROL, SIGNING ON ROADWAYS WITH MILLED SURFACES
15D50-04A	TRAFFIC CONTROL, ADDED LANE CLOSURE WITHOUT LANE SHIFT

6





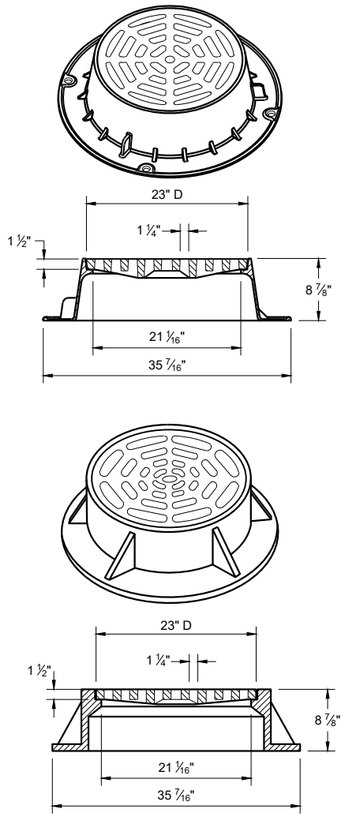
TYPE "B"



ALTERNATIVE GRATE FOR TYPE "B" COVER

USE WHERE PEDESTRIAN OF BICYCLE TRAFFIC IS POSSIBLE

NOTED AS TYPE B - A ON THE DRAINAGE TABLE



TYPE "C"

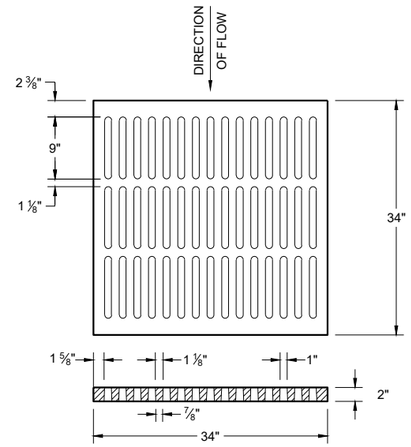
NOTE: EITHER CASTING IS ACCEPTABLE

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

DETAIL DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR CATCH BASIN, MANHOLE AND INLET COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

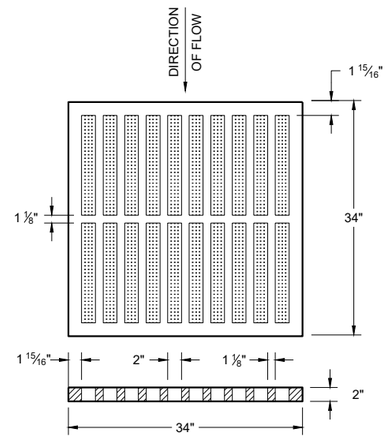
ROUND FRAMES AND COVERS SHALL HAVE CONTINUOUSLY MACHINED BEARING SURFACES TO PREVENT ROCKING AND RATTLING.



ALTERNATIVE TYPE "MS"

USE WHERE PEDESTRIAN OF BICYCLE TRAFFIC IS PERMITTED

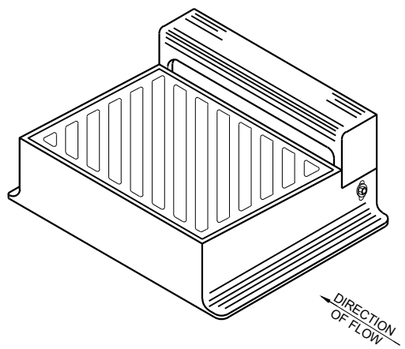
NOTED AS TYPE MS-A ON THE DRAINAGE TABLE



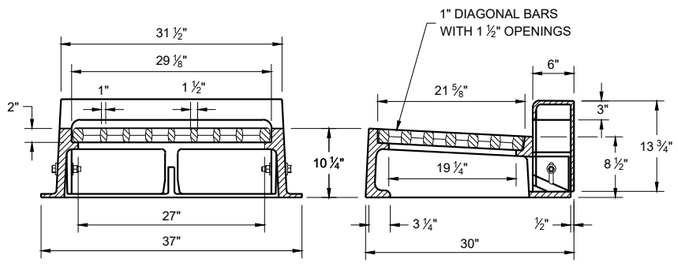
TYPE "MS"

USE ON FREEWAYS AND EXPRESSWAYS

NOTED AS TYPE MS ON THE DRAINAGE TABLE

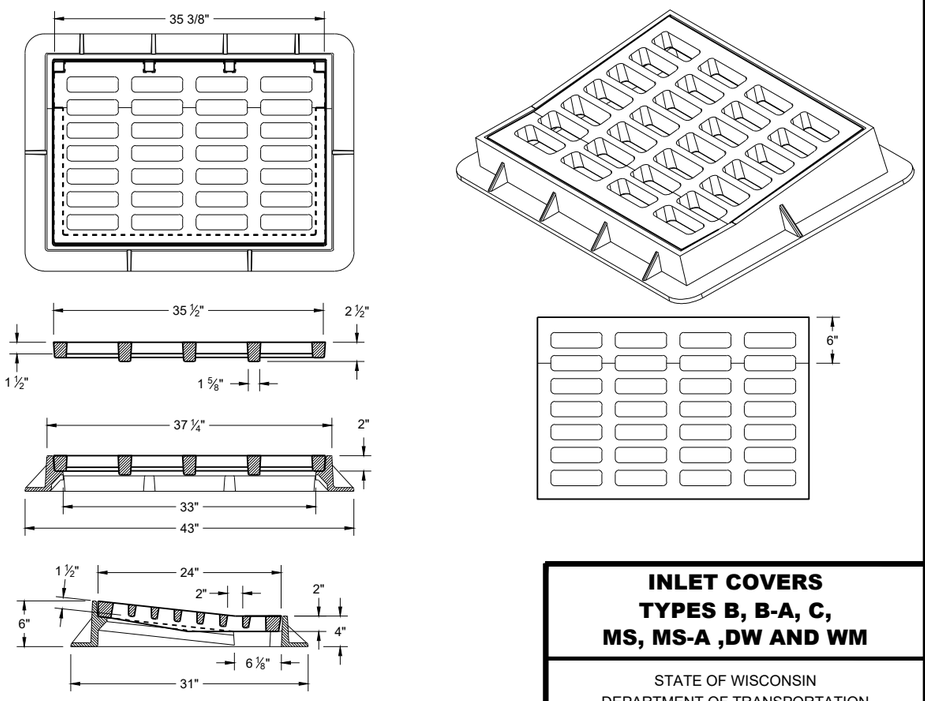


DIAGONAL SLOTS SHALL BE ORIENTEDTO THE DIRECTION OF FLOW AS ILLUSTRATED.
GRATES ARE MANUFACTURED TO BE REVERSIBLE.



TYPE "WM"

NOTE: CURB BOX HEIGHT ADJUSTABLE 6" - 9"



TYPE "DW"

NOTES: FOR USE IN A SUMP CONDITION. THIS OPTION IS ONLY TO BE USED IF NO OTHER INLETS ARE APPLICABLE.

INLET COVERS TYPES B, B-A, C, MS, MS-A ,DW AND WM

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2025 — DATE
/S/ Rodney Taylor — ROADWAY STANDARDS DEVELOPMENT UNIT SUPERVISOR

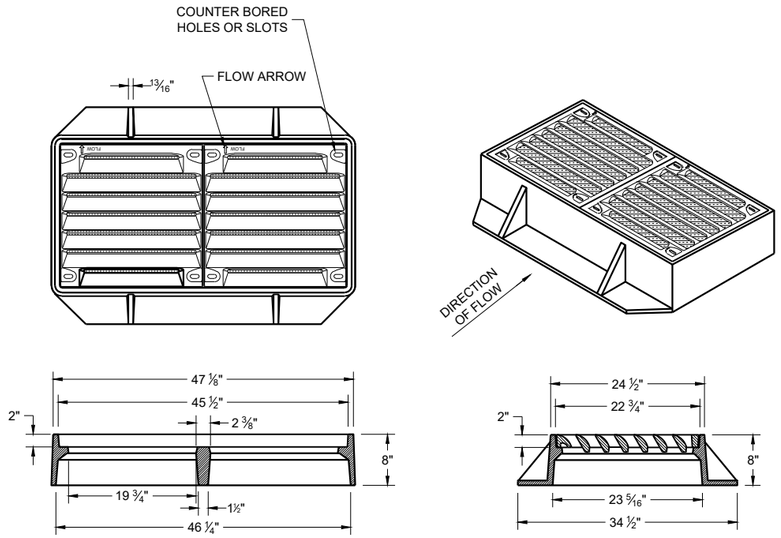
FHWA

6
SDD 08A05-22b

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

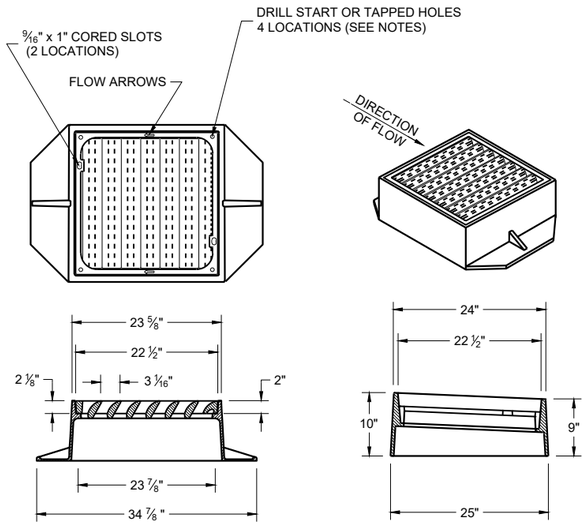
DETAIL DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR INLET COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.



TYPE "VV-B"

NOTES: ALL HARDWARE TO BE SUPPLIED BY CASTING MANUFACTURER
ALL DRILLING AND TAPPING GRATES AND FRAMES BY CASTING MANUFACTURER

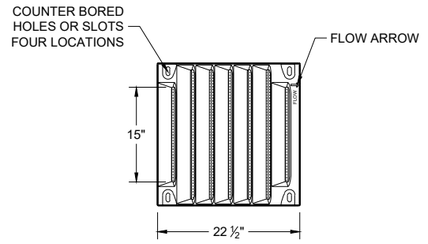
TYPE V
FRAME - CAST GRAY IRON ASTM A48 CLASS 35B
3/8" DIA. X 1/16" DRILL START IN 8 LOCATIONS
GRATE - CAST GRAY IRON ASTM A-48, CLASS 35B



TYPE "V"

NOTES: ALL HARDWARE TO BE SUPPLIED BY CASTING MANUFACTURER ALL DRILLING AND TAPPING GRATES AND FRAMES BY CASTING MANUFACTURER

TYPE V
FRAME - CAST GRAY IRON ASTM A48 CLASS 40A
3/8" DIA. X 1/16" DRILL START IN 4 LOCATIONS
GRATE - CAST GRAY IRON ASTM A-48, CLASS 35B



BOLT DOWN GRATE FOR TYPE "V" AND "VV-B" COVER

NOTES: ALL HARDWARE TO BE SUPPLIED BY CASTING MANUFACTURER NOTED AS TYPE "V-B" OR "VV-B" (FOR DOUBLE GRATE) ON DRAINAGE TABLE

TAP 1/2" -13 HOLES IN FOUR LOCATIONS PER GRATE IN FRAME TO BOLT GRATE(S).
FRAME - CAST GRAY IRON ASTM A48 CLASS 40A

GRATE - CAST DUCTILE IRON ASTM A536, 55+KSI YIELD
BOLTS - 1/2" -13 STAINLESS STEEL BOLTS WITH WASHERS
TORQUE BOLTS TO MANUFACTURER SPECIFICATION DO NOT OVERTIGHTEN.

INLET COVERS
TYPES V, V-B, AND VV-B

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2025 — DATE
/S/ Rodney Taylor — ROADWAY STANDARDS DEVELOPMENT UNIT SUPERVISOR
FHWA

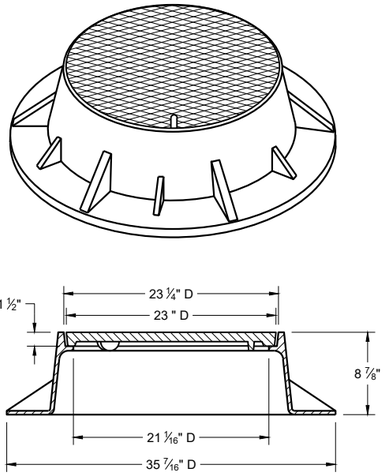
6
SDD 08A05-22d

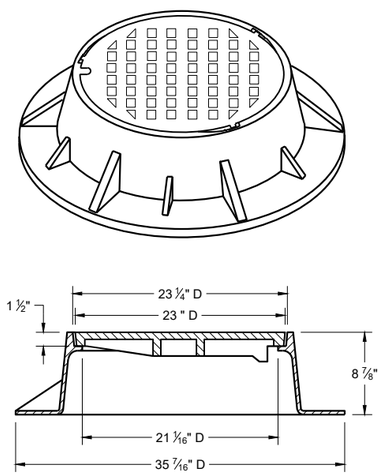
GENERAL NOTES

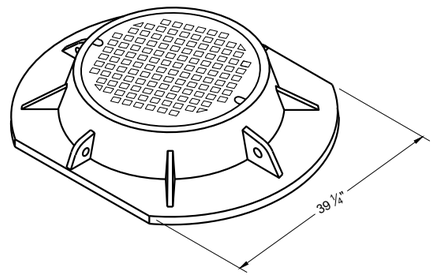
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

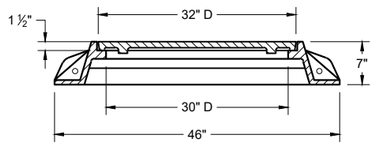
DETAIL DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR MANHOLE COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ROUND FRAMES AND COVERS SHALL HAVE CONTINUOUSLY MACHINED BEARING SURFACES TO PREVENT ROCKING AND RATTLING.

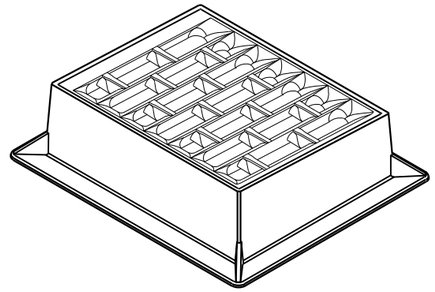


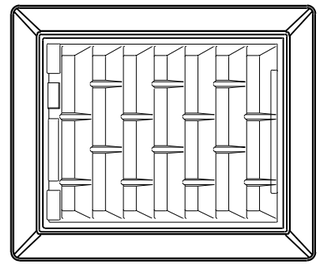


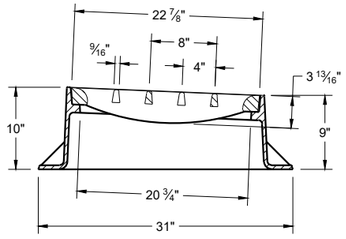


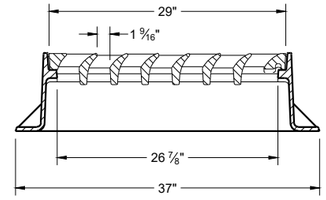


TYPE "K"

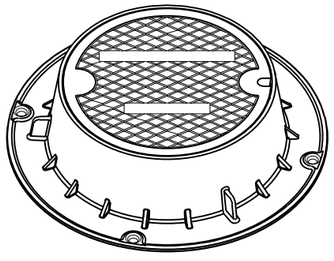


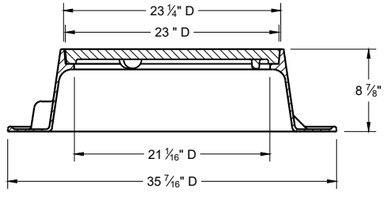






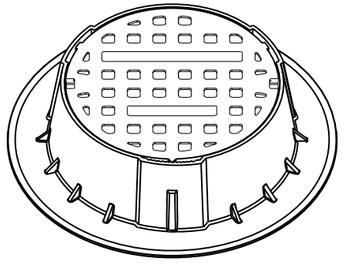
INLET COVER TYPE "BW"

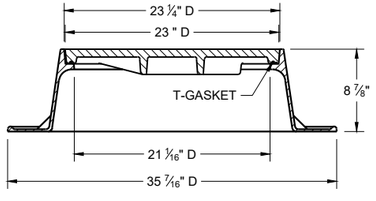




TYPE "J"

NOTE: EITHER CASTING IS ACCEPTABLE

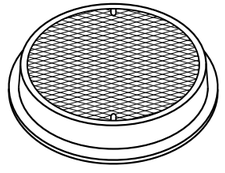


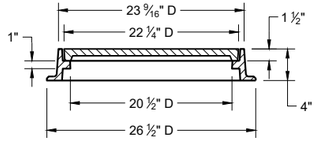


TYPE "J" SPECIAL

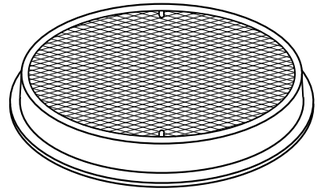
TYPE "B" NON-ROCKING SELF-SEAL LID
(NOTED AS TYPE J-S ON THE DRAINAGE TABLE)

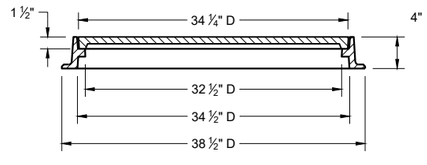
NOTE: EITHER CASTING IS ACCEPTABLE





TYPE "L"





TYPE "M"

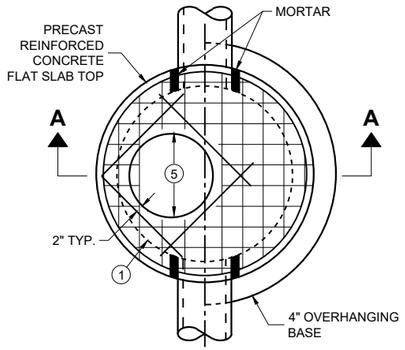
INLET COVERS TYPES BW
MANHOLE COVERS TYPES K, J, J-S, L, AND M

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2025 — DATE
/S/ Rodney Taylor — ROADWAY STANDARDS DEVELOPMENT UNIT SUPERVISOR

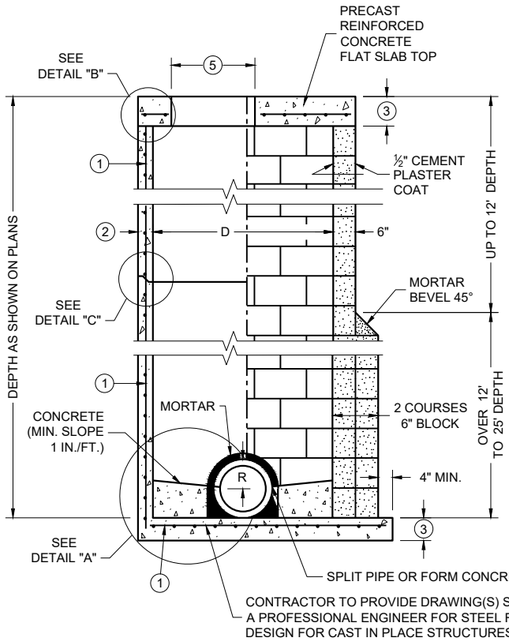
FHWA

6
SDD 08A05-22e



PLAN VIEW

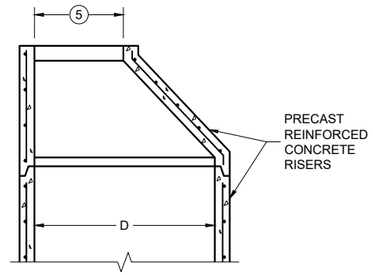
CIRCULAR OPENING



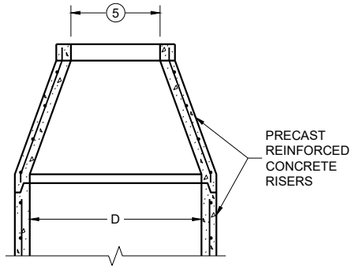
SECTION A - A

PRECAST REINFORCED CONCRETE WITH MONOLITHIC BASE

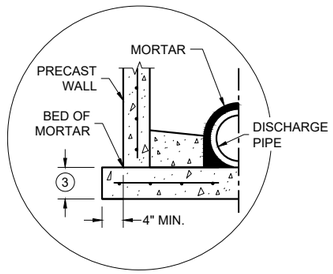
CONCRETE BLOCK WITH CAST IN PLACE OR PRECAST REINFORCED CONCRETE BASE (1)



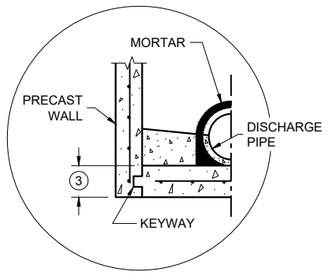
OPTIONAL PRECAST REINFORCED CONCRETE ECCENTRIC TOP



OPTIONAL PRECAST REINFORCED CONCRETE CONCENTRIC TOP

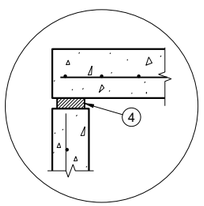


SEPARATE PRECAST REINFORCED CONCRETE BASE OPTION

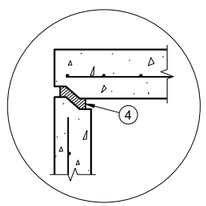


PRECAST REINFORCED CONCRETE WITH INTEGRAL BASE OPTION

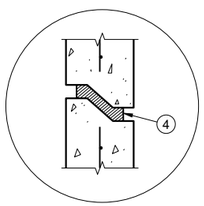
DETAIL "A"



TOP WITH PLAIN END JOINT



TOP WITH TONGUE AND GROOVE JOINT



RISER WITH TONGUE AND GROOVE JOINT

DETAIL "B"

DETAIL "C"

MANHOLE COVER OPENING MATRIX

OPENING SIZE (FT.) (5) \ MANHOLE COVER TYPE	C	ALL J'S	K	L	M
2 DIA.	X	X		X	
3 DIA.			X		X

PIPE MATRIX

MANHOLE SIZE (DIA.)	MAXIMUM INSIDE PIPE DIAMETER FOR TWO PIPES		MINIMUM WALL THICKNESS (IN)	MINIMUM PRECAST FLAT SLAB TOP AND BASE THICKNESS
	180° SEPARATION (IN)	90° SEPARATION (IN)		
3-FT	15	12	4	6
4-FT	24	18	4	6
5-FT	36	24	5	8
6-FT	42	36	6	8
7-FT	48	36/42 *	7	8
8-FT	60	42	8	8
9-FT	66	54	9	10
10-FT	72	60	10	10

*A 36" PIPE AND A 42" PIPE CAN BE PLACED WITHIN 90 DEGREES. SEE MINIMUM HORIZONTAL PIPE SEPARATION DETAIL.

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

UNLESS OTHERWISE AUTHORIZED IN WRITING BY THE ENGINEER, THE CONTRACTOR SHALL NOT ORDER AND DELIVER PRECAST MANHOLE UNITS REQUIRED FOR THE PROJECT UNTIL A LIST OF SIZES IS FURNISHED BY THE ENGINEER.

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR UNDERGROUND DRAINAGE STRUCTURES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ALL DRAINAGE STRUCTURES ARE DESIGNATED ON THE PLANS AS "MANHOLES 3X3-L", "CATCH BASINS 4-B", "INLETS 2X3-H", ETC. THE FIRST NUMBERS DESIGNATE THE SIZE OF THE STRUCTURE, AND THE FOLLOWING LETTER DESIGNATES THE TYPE OF COVER TO BE USED TO COMPRISE THE COMPLETE UNIT.

BASES SHALL BE PLACED ON A BED OF MATERIAL AT LEAST 6 INCHES IN DEPTH, WHICH MEETS THE REQUIREMENTS OF FOUNDATION BACKFILL. THIS BEDDING SHALL BE COMPACTED AND PROVIDE UNIFORM SUPPORT FOR THE ENTIRE AREA OF THE BASE.

PRECAST REINFORCED CONCRETE CONE TOPS (ECCENTRIC OR CONCENTRIC) OR PRECAST REINFORCED CONCRETE FLAT SLAB TOPS MAY BE USED ON CONCRETE BLOCK STRUCTURES.

ECCENTRIC CONE TOPS MAY BE USED ON ALL STRUCTURES. CONCENTRIC CONE TOPS SHALL BE USED ONLY ON STRUCTURES 5 FEET OR LESS IN DEPTH UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

STEPS MEETING AASHTO M199 AND THE FOLLOWING REQUIREMENTS SHALL BE INSTALLED IN ALL STRUCTURES OVER 5 FEET IN DEPTH: 16 INCH C-C MAXIMUM SPACING; PROJECT A MINIMUM CLEAR DISTANCE OF 4 INCHES FROM THE WALL AT THE POINT OF EMBEDMENT; MINIMUM LENGTH OF 10 INCHES; MINIMUM WALL EMBEDMENT OF 3 INCHES. FERROUS METAL STEPS NOT PAINTED OR TREATED TO RESIST CORROSION SHALL HAVE A MINIMUM CROSS SECTIONAL IMENSION OF 1 INCH.

STEPS OF APPROVED POLYPROPYLENE PLASTIC COATED REINFORCEMENT BAR ARE ACCEPTABLE. REINFORCING BAR MUST BE A MINIMUM OF ½ INCH AND MEET THE REQUIREMENTS OF ASTM A615.

CERTIFICATION SHALL BE PROVIDED THAT INSTALLED STEPS WHEN TESTED IN ACCORDANCE WITH SECTION 10 OF AASHTO T280 CAN WITHSTAND A VERTICAL LOAD OF 800 LBS. AND A HORIZONTAL LOAD OF 400 LBS.

ALL BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2 INCHES CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

ALL PRECAST MANHOLE UNITS SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF AASHTO DESIGNATION M199.

PRECAST REINFORCED RISERS SHALL HAVE A TONGUE AND GROOVE JOINT WITH TONGUE UP OR DOWN.

CONCRETE BLOCK WILL NOT BE PERMITTED FOR STRUCTURES GREATER THAN 4 FEET IN DIAMETER.

4" OVERHANGING BASES ARE REQUIRED FOR ALL CONCRETE BLOCK INSTALLATIONS. 4" OVERHANG IS REQUIRED WHEN SEPARATE PRECAST BASE IS PROVIDED. OVERHANG IS NOT REQUIRED ON PRECAST STRUCTURES WITH AN INTEGRAL OR MONOLITHIC BASE.

FOR ADDITIONAL CONFIGURATIONS, MAINTAIN A MINIMUM OF 12 INCHES AS MEASURED FROM THE INSIDE OF THE STRUCTURE WALL BETWEEN THE OUTSIDE PIPE WALLS OF ADJACENT PIPES. SEE DETAIL "D".

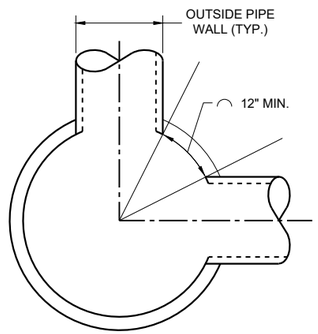
(1) FOR PRECAST MANHOLES AND REINFORCED CONCRETE BASES PROVIDE REINFORCING STEEL IN ACCORDANCE TO AASHTO M199.

(2) SEE PIPE MATRIX TABLE FOR MINIMUM WALL THICKNESS FOR PRECAST MANHOLES

(3) SEE PIPE MATRIX TABLE FOR MINIMUM THICKNESS OF PRECAST FLAT SLAB TOPS AND BASES.

(4) JOINTS TO BE SEALED WITH A BUTYL RUBBER SEAL PER SEALANT MANUFACTURERS RECOMMENDATIONS CONFORMING TO ASTM C 990 OR RUBBER GASKETS CONFORMING TO ASTM C443.

(5) SEE MANHOLE COVER OPENING MATRIX.



MINIMUM HORIZONTAL PIPE SEPARATION

DETAIL "D"

MANHOLES 3-FT, 4-FT, 5-FT, 6-FT, 7-FT, 8-FT, 9-FT AND 10-FT DIAMETER

MANHOLES, 3-FT, 4-FT 5-FT, 6-FT, 7-FT, 8-FT, 9-FT AND 10-FT DIAMETER

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
December 2023 — DATE
/S/ Rodney Taylor — ROADWAY STANDARDS DEVELOPMENT UNIT SUPERVISOR

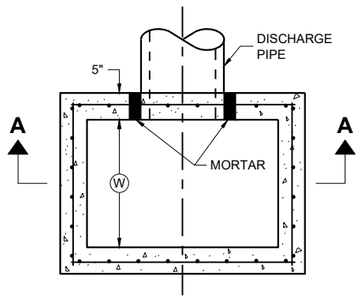
FHWA

6

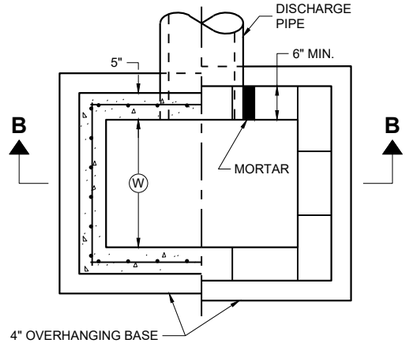
SDD 08B09-04

6

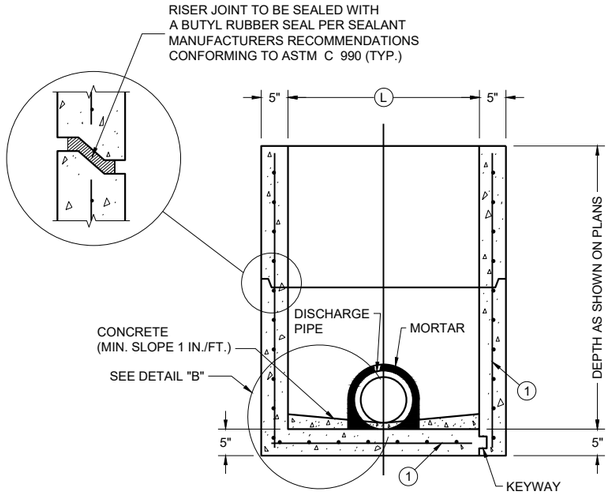
SDD 08B09-04



PLAN VIEW



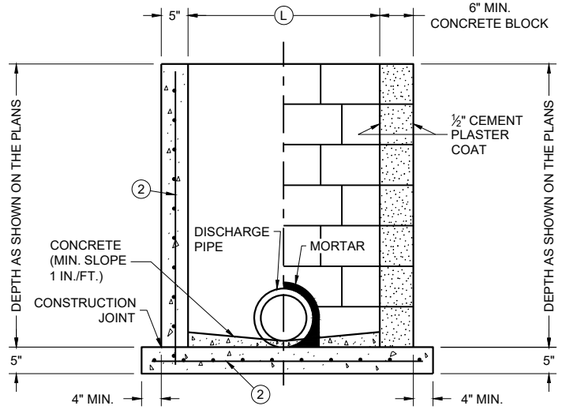
PLAN VIEW



PRECAST REINFORCED CONCRETE WITH MONOLITHIC BASE

PRECAST REINFORCED CONCRETE WITH INTEGRAL BASE

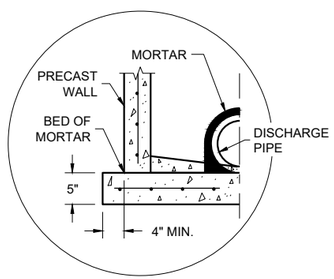
SECTION A - A



CAST IN PLACE REINFORCED CONCRETE

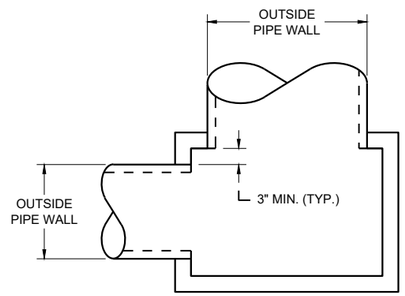
CONCRETE BLOCK WITH CAST IN PLACE OR PRECAST REINFORCED CONCRETE BASE (1)

SECTION B - B



SEPARATE PRECAST REINFORCED CONCRETE BASE OPTION

DETAIL "B"



DETAIL "A"

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP N0T SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

UNLESS OTHERWISE AUTHORIZED IN WRITING BY THE ENGINEER, THE CONTRACTOR SHALL NOT ORDER AND DELIVER PRECAST INLET UNITS REQUIRED FOR THE PROJECT UNTIL A LIST OF SIZES IS FURNISHED BY THE ENGINEER.

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR UNDERGROUND DRAINAGE STRUCTURES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ALL PRECAST INLET UNITS SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF ASTM C 913.

ALL DRAINAGE STRUCTURES ARE DESIGNATED ON THE PLANS AS "MANHOLES 3X3-L", "CATCH BASINS 4-B", "INLETS 2X3-H", ETC. THE FIRST NUMBERS DESIGNATES THE SIZE OF THE STRUCTURE, AND THE FOLLOWING LETTER DESIGNATES THE TYPE OF COVER TO BE USED TO COMPRISE THE COMPLETE UNIT.

BASES SHALL BE PLACED ON A BED OF MATERIAL AT LEAST 6 INCHES IN DEPTH, WHICH MEETS THE REQUIREMENTS OF FOUNDATION BACKFILL. THIS BEDDING SHALL BE COMPACTED AND PROVIDE UNIFORM SUPPORT FOR THE ENTIRE AREA OF THE BASE.

ALL BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2 INCHES CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

PRECAST REINFORCED RISERS SHALL HAVE A TONGUE AND GROOVE JOINT WITH TONGUE UP OR DOWN.

4" OVERHANGING BASES ARE REQUIRED FOR CAST-IN-PLACE REINFORCED CONCRETE AND CONCRETE BLOCK INSTALLATIONS. 4" OVERHANG IS REQUIRED WHEN SEPARATE PRECAST BASE IS PROVIDED. OVERHANG IS NOT REQUIRED ON PRECAST STRUCTURES WITH AN INTEGRAL OR MONOLITHIC BASE.

MAXIMUM INSIDE PIPE DIAMETER DETERMINED BY 3" CLEARANCE ON EACH SIDE OF THE OUTSIDE WALL OF THE PIPE. SEE DETAIL "A". ASSUMES PIPE ENTERS PERPENDICULAR TO THE STRUCTURE.

(1) FOR PRECAST INLETS AND REINFORCED CONCRETE BASES PROVIDE REINFORCING STEEL IN ACCORDANCE TO ASTM C 913
(2) CONTRACTOR TO PROVIDE DRAWING(S) STAMPED BY A PROFESSIONAL ENGINEER FOR STEEL REINFORCING DESIGN FOR CAST-IN-PLACE STRUCTURES.

CATCH BASIN COVER MATRIX

INLET SIZE	WIDTH (W) (FT.)	LENGTH (L) (FT.)	INLET COVER TYPE									
			ALL A'S	ALL B'S	BW	F	ALL H'S	S	T	V	WM	V V-B
2 X 2-FT	2	2	X	X				X				
2 X 2.5-FT	2	2.5			X			X	X	X	X	
2 X 3-FT	2	3					X					
2.5 X 3-FT	2.5	3				X						
2 X 3.5-FT	2	3.5										X

PIPE MATRIX

CATCH BASIN SIZE	MAXIMUM INSIDE PIPE DIAMETER FOR TWO PIPES	
	WIDTH (IN)	LENGTH (IN)
2 X 2-FT	12	12
2 X 2.5-FT	12	18
2 X 3-FT	12	24
2.5 X 3-FT	18	24
2 X 3.5-FT	12	30

INLETS 2 X 2-FT, 2 X 2.5-FT, 2 X 3-FT, 2.5 X 3-FT AND 2X3.5-FT

INLETS 2 X 2-FT, 2 X 2.5-FT, 2 X 3-FT, 2.5 X 3-FT AND 2 X 3.5-FT

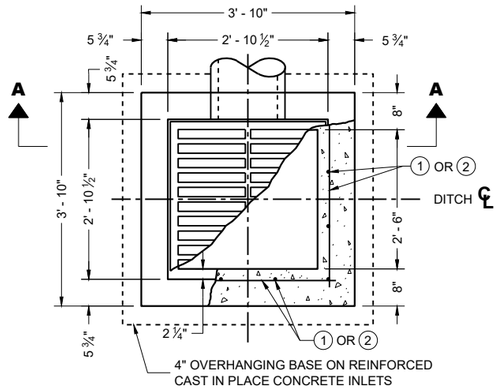
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
December 2023
DATE

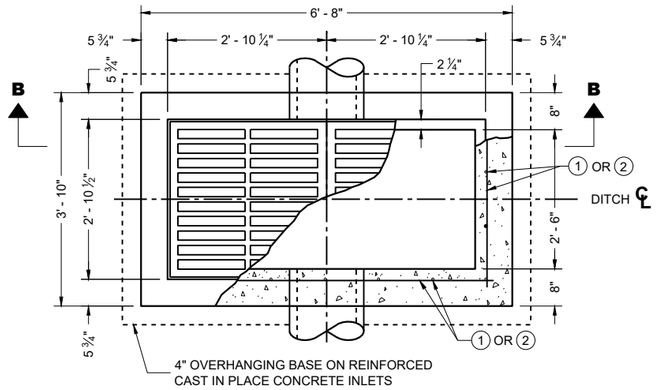
/S/ Rodney Taylor
ROADWAY STANDARDS DEVELOPMENT UNIT SUPERVISOR

FHWA

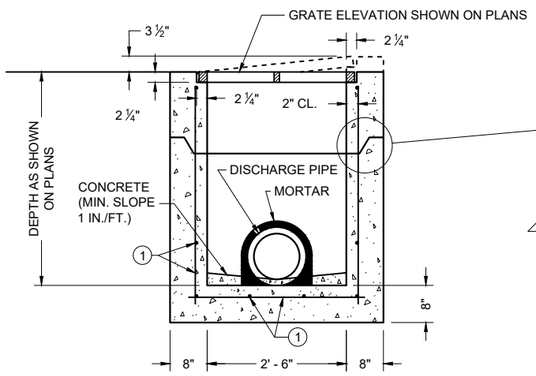
6
SDD 08C07-03



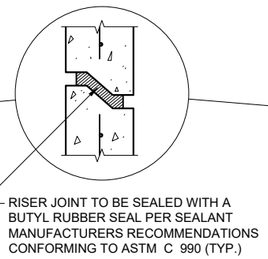
PLAN VIEW

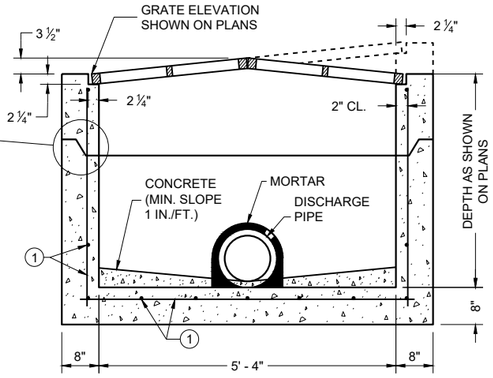


PLAN VIEW

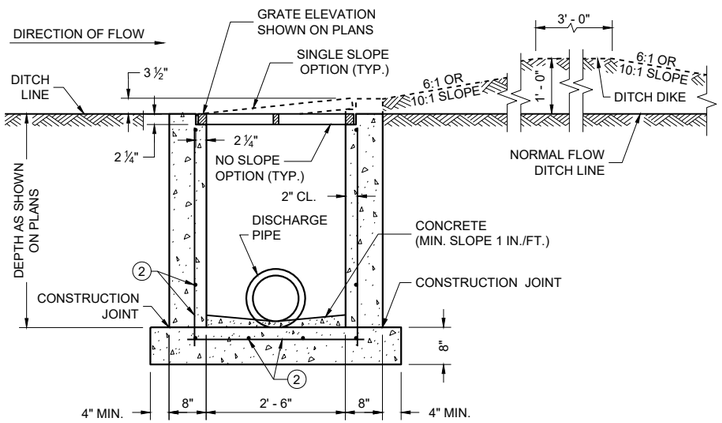


PRECAST REINFORCED CONCRETE SECTION A - A



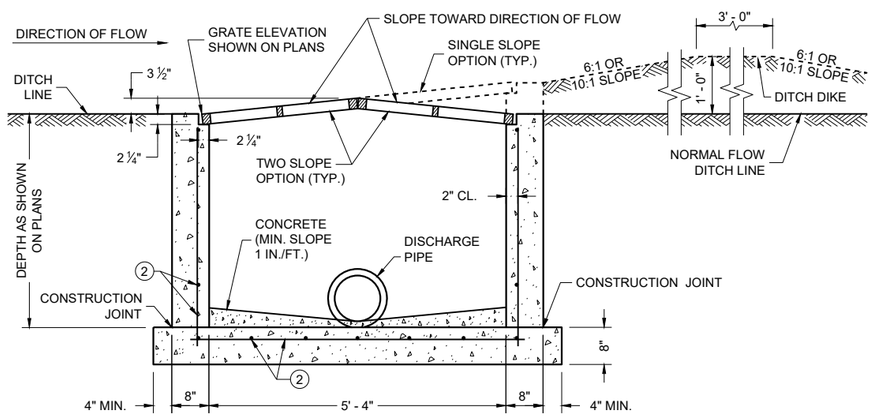


PRECAST REINFORCED CONCRETE SECTION B - B



REINFORCED CAST IN PLACE CONCRETE SECTION A - A

INLETS MEDIAN 1 GRATE



REINFORCED CAST IN PLACE CONCRETE SECTION B - B

INLETS MEDIAN 2 GRATE

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP N0T SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

UNLESS OTHERWISE AUTHORIZED IN WRITING BY THE ENGINEER, THE CONTRACTOR SHALL NOT ORDER AND DELIVER PRECAST INLET UNITS REQUIRED FOR THE PROJECT UNTIL A LIST OF SIZES IS FURNISHED BY THE ENGINEER.

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR INLETS WHICH MAY INCLUDE PRECAST REINFORCED CONCRETE INLETS, SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ALL MEDIAN INLETS ARE DESIGNATED ON THE PLANS AS "INLETS, 1G-MS", ETC. THE FIRST NUMBER AND LETTER DESIGNATE THE TYPE OF STRUCTURE, AND THE FOLLOWING LETTERS DESIGNATE THE TYPE OF COVER TO BE USED TO COMPRISE THE COMPLETE UNIT.

BASES SHALL BE PLACED ON A BED OF MATERIAL AT LEAST 6 INCHES IN DEPTH, WHICH MEETS THE REQUIREMENTS OF FOUNDATION BACKFILL. THIS BEDDING SHALL BE COMPACTED AND PROVIDE UNIFORM SUPPORT FOR THE ENTIRE AREA OF THE BASE.

ALL PRECAST INLET UNITS SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF ASTM C 913.

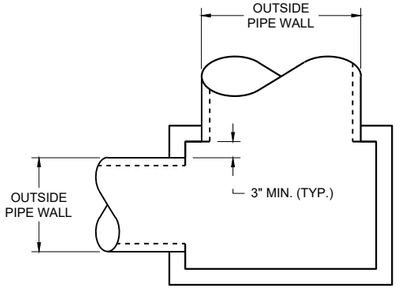
ALL BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2 INCHES CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

PRECAST REINFORCED RISERS SHALL HAVE A TONGUE AND GROOVE JOINT WITH TONGUE UP OR DOWN.

MAXIMUM INSIDE PIPE DIAMETER DETERMINED BY 3" CLEARANCE ON EACH SIDE OF THE OUTSIDE WALL OF THE PIPE. SEE DETAIL "A". ASSUMES PIPE ENTERS PERPENDICULAR TO THE STRUCTURE.

(1) FOR PRECAST INLETS AND REINFORCED CONCRETE BASES PROVIDE REINFORCING STEEL IN ACCORDANCE TO ASTM C 913.

(2) CONTRACTOR TO PROVIDE DRAWING(S) STAMPED BY A PROFESSIONAL ENGINEER FOR STEEL REINFORCING DESIGN FOR CAST-IN-PLACE STRUCTURES.



DETAIL "A"

PIPE MATRIX

INLET SIZE	MAXIMUM INSIDE PIPE DIAMETER	
	WIDTH (IN)	LENGTH (IN)
1 GRATE	18	18
2 GRATE	18	42

INLETS
MEDIAN 1 AND 2 GRATE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
December 2023 — DATE
/S/ Rodney Taylor — ROADWAY STANDARDS DEVELOPMENT UNIT SUPERVISOR

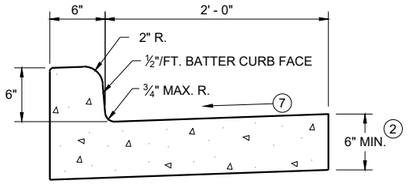
FHWA

6

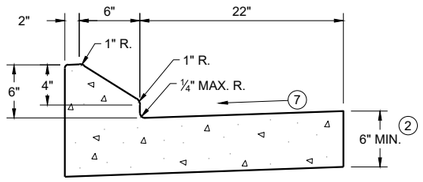
SDD 08C08-03

6

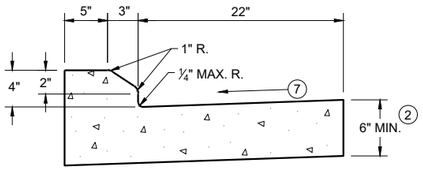
SDD 08C08-03



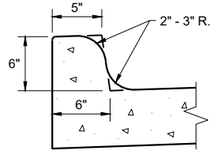
TYPES A (1) & D



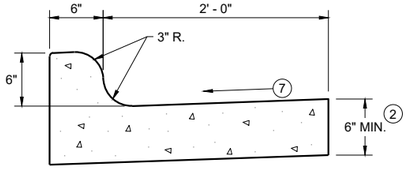
6" SLOPED CURB TYPES G (1) & J



4" SLOPED CURB TYPES G (1) & J

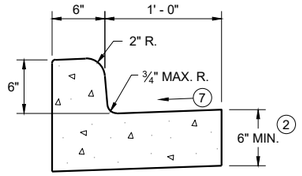


TYPES K (1) & L
(OPTIONAL CURB SHAPE)



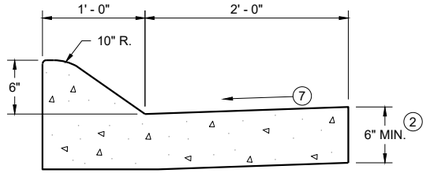
TYPES K (1) & L

CONCRETE CURB AND GUTTER 30"

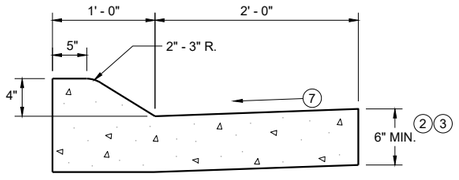


TYPES A (1) & D

CONCRETE CURB AND GUTTER 18"

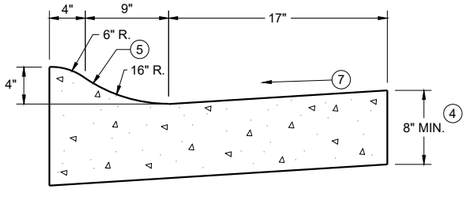


6" SLOPED CURB TYPES A (1) & D



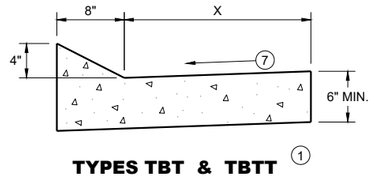
4" SLOPED CURB TYPES A (1) & D

CONCRETE CURB AND GUTTER 36"



4" SLOPED CURB TYPES R (1) & T
CONCRETE CURB AND GUTTER 30"

TBT & TBTT	X
30"	22"
36"	28"

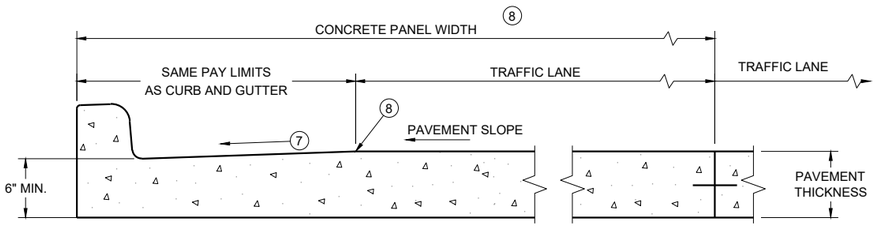


TYPES TBT & TBTT (1)

CONCRETE CURB AND GUTTER

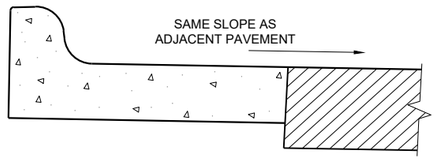
PAVEMENT THICKNESS AND MAXIMUM CONCRETE PANEL WIDTH TABLE

PAVEMENT THICKNESS	MAXIMUM PANEL WIDTH
LESS THAN 10"	12'
10" & ABOVE	15'



PARTIAL SECTION OF PAVEMENT WITH INTEGRAL CURB AND GUTTER *

* BIKE LANE IS NOT SHOWN



REVERSE SLOPE GUTTER (6)
(TYPICAL FOR ALL CURB & GUTTER TYPES)

GENERAL NOTES

DETAILS OF CONSTRUCTION AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

PAVEMENT TIES AND TIE BARS SHALL BE EPOXY COATED IN CONFORMANCE WITH SUBSECTION 505.2.6.2 OF THE STANDARD SPECIFICATIONS.

INTEGRAL CURB AND GUTTER SHALL CONFORM TO THE DETAILS SHOWN FOR CONCRETE CURB AND GUTTER INCLUDING THE TRANSVERSE GUTTER SLOPE.

UNLESS OTHERWISE SHOWN ON THE TYPICAL CROSS SECTIONS, THE BASE AGGREGATE AND COMMON EXCAVATION LIMITS ARE 2' - 0" BEHIND THE BACK OF CURBS.

(1) TIE BARS ARE REQUIRED FOR CURB AND GUTTERS TYPES A, G, K, R, AND TBTT.

(2) THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE AGGREGATE PROVIDED A 6" MINIMUM GUTTER THICKNESS IS MAINTAINED.

(3) USE 8" MINIMUM GUTTER THICKNESS WHEN USED WITH AN ADJACENT CONCRETE TRUCK APRON PLACED BEHIND BACK OF CURB.

(4) THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE AGGREGATE PROVIDED A 8" MINIMUM GUTTER THICKNESS IS MAINTAINED.

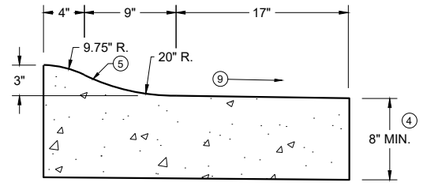
(5) UNLESS OTHERWISE NOTED, FOR STAKING PURPOSES THE FACE OF CURB IS 6" FROM THE BACK OF CURB.

(6) WHEN REVERSE SLOPE GUTTER IS REQUIRED, THE LOCATION(S) WILL BE SHOWN ELSEWHERE IN THE PLAN.

(7) USE 4% GUTTER CROSS SLOPE UNLESS OTHERWISE NOTED IN THE PLANS.

(8) INCLUDE LONGITUDINAL JOINT AND TIE BARS ALONG LANE EDGE WHEN CONCRETE PANEL WIDTH EXCEEDS THE MAXIMUM WIDTH PER TABLE BELOW. LONGITUDINAL JOINT(S) ARE NOT ALLOWED WITHIN TRAFFIC LANES AND BIKE LANES. LONGITUDINAL JOINT MAY BE SAWED.

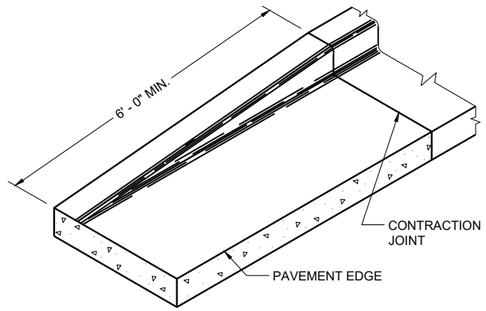
(9) SLOPE TO BE REVERSE SLOPE MATCHING THE SLOPE OF THE PAVEMENT AND THE CIRCULATORY ROADWAY



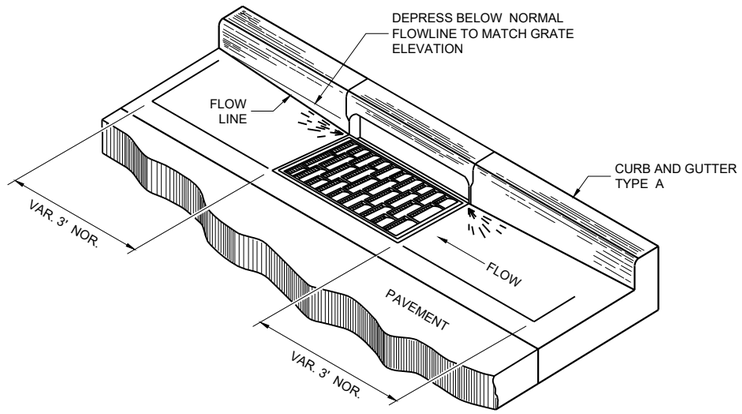
3" SLOPED CURB TYPES R (1) & T

CONCRETE CURB AND GUTTER

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION



END SECTION CURB AND GUTTER



DETAIL OF CURB AND GUTTER AT INLETS

(TYPICAL H INLET COVER SHOWN)

GENERAL NOTES

DETAILS OF CONSTRUCTION AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

PAVEMENT TIES AND TIE BARS SHALL BE EPOXY COATED IN CONFORMANCE WITH SUBSECTION 505.2.6.2 OF THE STANDARD SPECIFICATIONS.

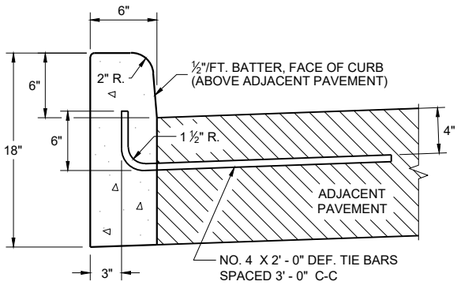
UNLESS OTHERWISE SHOWN ON THE TYPICAL CROSS SECTIONS, THE BASE AGGREGATE AND COMMON EXCAVATION LIMITS ARE 2' - 0" BEHIND THE BACK OF CURBS.

(1) TIE BARS ARE REQUIRED FOR CURB AND GUTTERS TYPES A, G, K, R, AND TBTT.

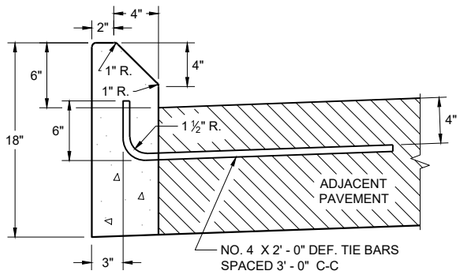
(2) THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE AGGREGATE PROVIDED A 6" MINIMUM GUTTER THICKNESS IS MAINTAINED.

(10) REFER TO SDD 08D18 AND 08D19 FOR ADDITIONAL DRIVEWAY ENTRANCE CURB DETAILS.

(11) PLACE 1" THICK EXPANSION JOINT MATERIAL BETWEEN VERTICAL FACE CURB TYPES EXTENDING FROM THE TOP OF CURB TO 1 INCH BELOW THE ADJOINING CONCRETE SURFACE. RIGID CONCRETE STRUCTURES INCLUDE RAISED CONCRETE MEDIANS, CONCRETE SAFETY ISLANDS, SPLITTER ISLANDS, OR LOCATIONS IDENTIFIED ON THE PLANS.

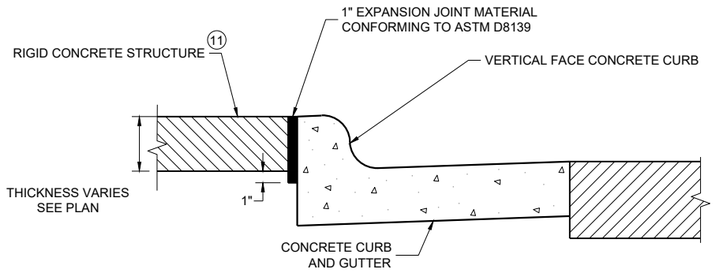


TYPES A (1) & D

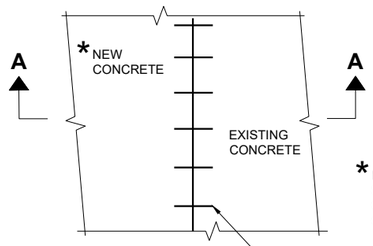


TYPES G (1) & J

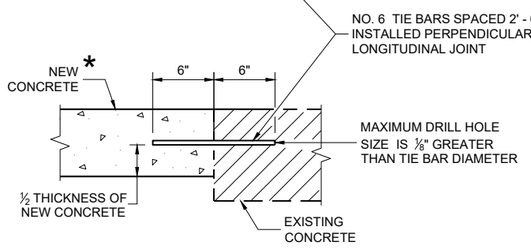
CONCRETE CURB



EXPANSION JOINT DETAIL FOR VERTICAL CURB ABUTTING A RIGID STRUCTURE (11)

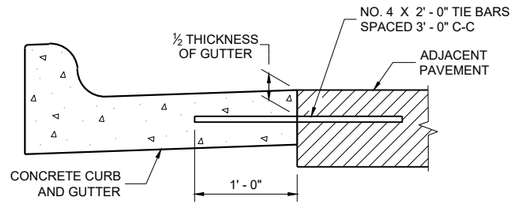


PLAN VIEW

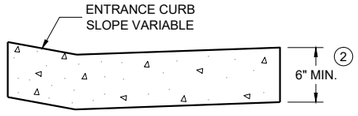


SECTION A - A

TIE BARS DRILLED INTO EXISTING PAVEMENT



TYPICAL TIE BAR LOCATION (1)



DRIVEWAY ENTRANCE CURB (10)

(WHEN DIRECTED BY THE ENGINEER)

CONCRETE CURB, TIES AND CURB AND GUTTER APPLICATIONS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2025 — DATE
/S/ Rodnery Taylor — ROADWAY STANDARDS DEVELOPMENT UNIT SUPERVISOR

FHWA

6
SDD 08D01-24b

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

ALL STEEL REINFORCEMENT SHALL BE EMBEDDED 2 INCHES CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

(1) USE A JOINT SEALANT CONFORMING TO STANDARD SPECIFICATION 415.2.6.

(2) NO. 4 X 2' - 0" TIE BARS SPACED AT 12" C-C TO BE PLACED BY BRIDGE CONTRACTOR OR DRILLED TIE BARS PLACED AS DIRECTED BY THE ENGINEER.

(3) PAVED CONCRETE SHOULDER (SDD 13A03) OR CONCRETE DRAINAGE SLAB.

(4) CONCRETE PAVEMENT APPROACH SLAB (SHOWN) OR STRUCTURE APPROACH SLAB AND CONCRETE PAVEMENT APPROACH SLAB. SEE SDD 13B02.

(5) PAVED CONCRETE SHOULDER (SDD 13A03) OR ASPHALT SHOULDER.

(6) CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE TBT OR TBTT. USE TYPE TBTT CURB WITH NO. 4 X 2' -0" TIE BARS SPACED AT 3' - 0" C-C ONLY WHEN ADJACENT TO CONCRETE PAVEMENTS.

(7) PLACE FLUME BEFORE MSG THRIE BEAM TRANSITION POST 1 (SEE SDD 14B45)

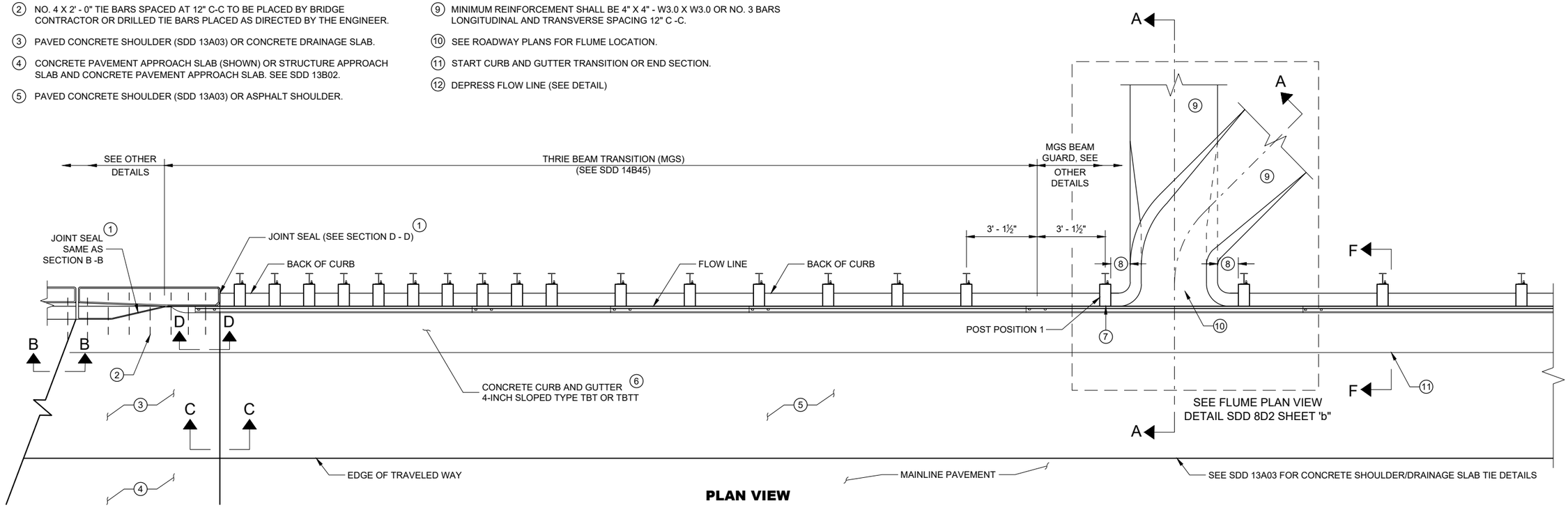
(8) CENTER FLUME BETWEEN POSTS. 6-INCH MINIMUM SEPARATION FROM OUTSIDE EDGE OF FLUME TO POSTS.

(9) MINIMUM REINFORCEMENT SHALL BE 4" X 4" - W3.0 X W3.0 OR NO. 3 BARS LONGITUDINAL AND TRANSVERSE SPACING 12" C -C.

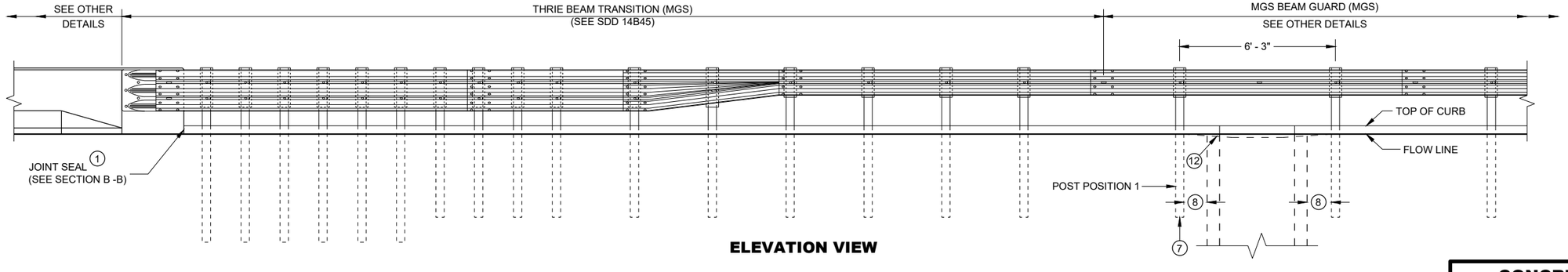
(10) SEE ROADWAY PLANS FOR FLUME LOCATION.

(11) START CURB AND GUTTER TRANSITION OR END SECTION.

(12) DEPRESS FLOW LINE (SEE DETAIL)



PLAN VIEW



ELEVATION VIEW

CONCRETE SURFACE DRAINS FLUME TYPE AT STRUCTURES

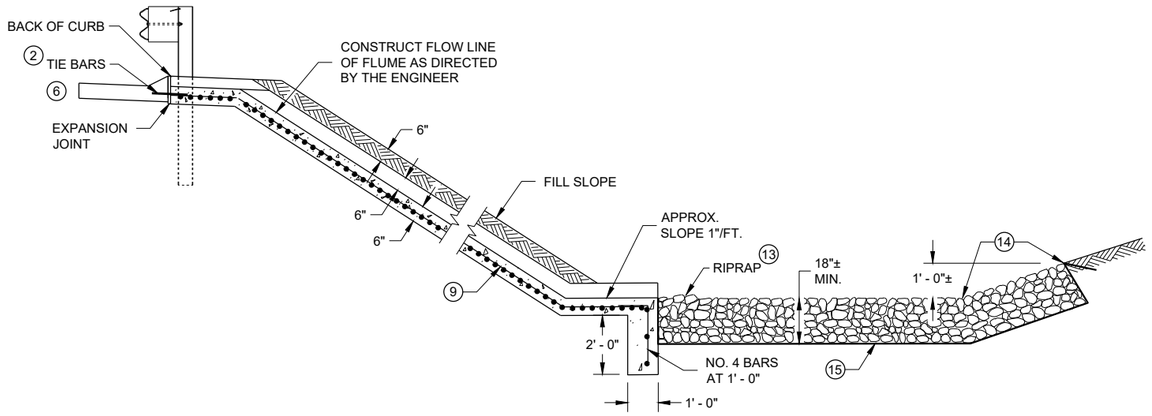
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

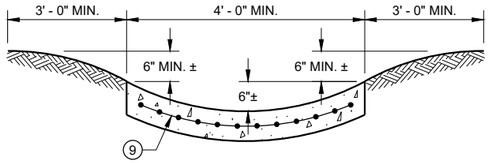
SDD 08D02 - 08a

6

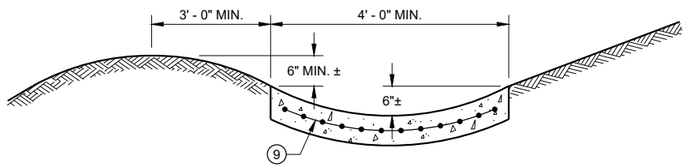
SDD 08D02 - 08a



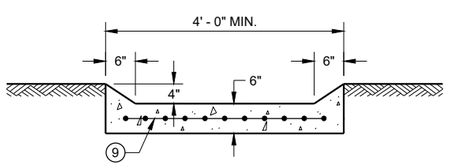
SECTION A - A



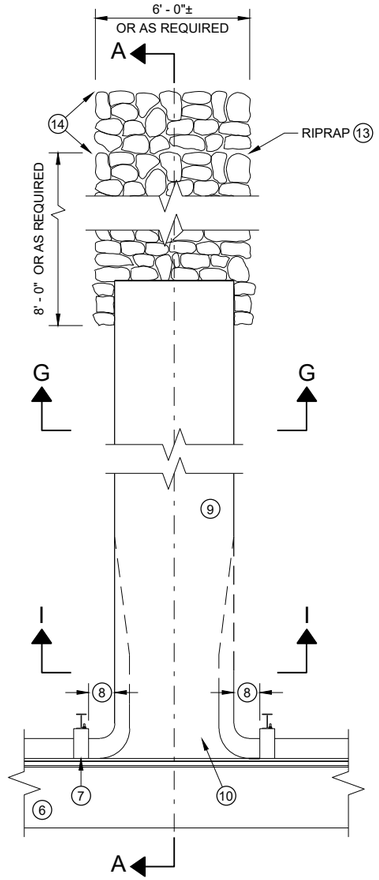
SECTION G - G



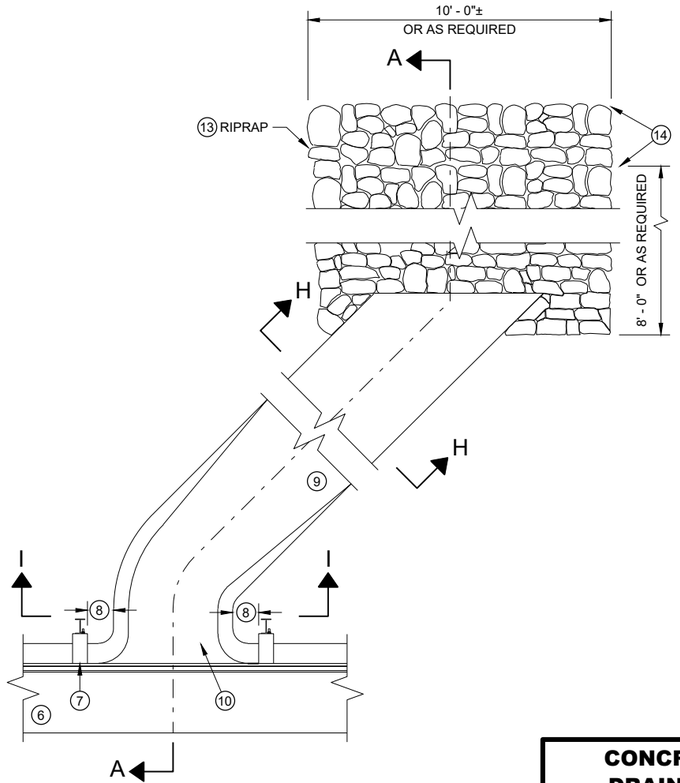
SECTION H - H



SECTION I - I



PLAN VIEW PERPENDICULAR FLUME



PLAN VIEW SKEWED FLUME

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

ALL STEEL REINFORCEMENT SHALL BE EMBEDDED 2 INCHES CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

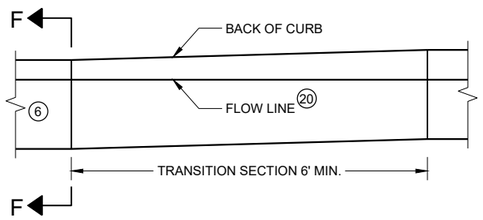
1. USE A JOINT SEALANT CONFORMING TO STANDARD SPECIFICATION 415.2.6.
2. NO. 4 X 2' - 0" TIE BARS SPACED AT 12" C-C TO BE PLACED BY BRIDGE CONTRACTOR OR DRILLED TIE BARS PLACED AS DIRECTED BY THE ENGINEER.
3. PAVED CONCRETE SHOULDER (SDD 13A03) OR CONCRETE DRAINAGE SLAB.
4. CONCRETE PAVEMENT APPROACH SLAB (SHOWN) OR STRUCTURE APPROACH SLAB AND CONCRETE PAVEMENT APPROACH SLAB. SEE SDD 13B02 AND STRUCTURE PLANS.
5. PAVED CONCRETE SHOULDER (SDD 13A03) OR ASPHALT SHOULDER.
6. CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE TBT OR TBTT. USE TYPE TBTT CURB WITH NO. 4 X 2' -0" TIE BARS SPACED AT 3' - 0" C-C ONLY WHEN ADJACENT TO CONCRETE PAVEMENTS.
7. PLACE FLUME BEFORE MSG THRIE BEAM TRANSITION POST 1 (SEE SDD 14B45)
8. CENTER FLUME BETWEEN POSTS. 6-INCH MINIMUM SEPARATION FROM OUTSIDE EDGE OF FLUME TO POSTS.
9. MINIMUM REINFORCEMENT SHALL BE 4" X 4" - W3.0 X W3.0 OR NO. 3 BARS LONGITUDINAL AND TRANSVERSE SPACING 12" C -C.
10. SEE ROADWAY PLANS FOR FLUME LOCATION.
11. START CURB AND GUTTER TRANSITION OR END SECTION.
12. DEPRESS FLOW LINE (SEE DETAIL)
13. MEDIUM RIPRAP UNLESS OTHERWISE SPECIFIED.
14. LIMITS OF ADDITIONAL RIPRAP WHEN SPECIAL DITCH AS REQUIRED.
15. GEOTEXTILE TYPE HR.

CONCRETE SURFACE DRAINS FLUME TYPE AT STRUCTURES

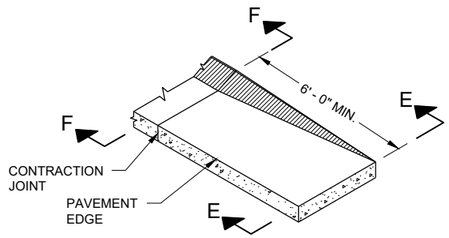
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

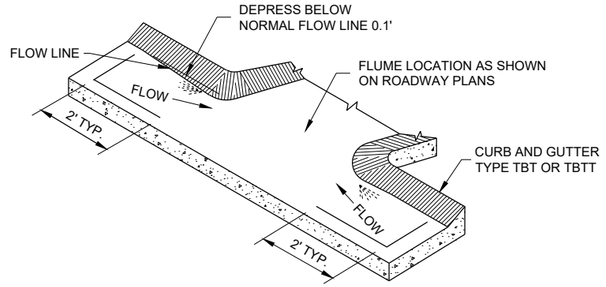
SDD 08D02 - 08b



CURB AND GUTTER TRANSITION SECTION
CONCRETE CURB AND GUTTER 4-INCH SLOPED
36 INCH TYPE TBT OR TBTT



CURB AND GUTTER END SECTION
CONCRETE CURB AND GUTTER 4-INCH SLOPED
36 INCH TYPE TBT OR TBTT



CURB AND GUTTER FLOW LINE DEPRESSION
AT FLUMES CONCRETE CURB AND GUTTER
4-INCH SLOPED 36 INCH TYPE TBT OR TBTT

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

ALL STEEL REINFORCEMENT SHALL BE EMBEDDED 2 INCHES CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

(1) USE A JOINT SEALANT CONFORMING TO STANDARD SPECIFICATION 415.2.6.

(2) NO. 4 X 2' - 0" TIE BARS SPACED AT 12" C-C TO BE PLACED BY BRIDGE CONTRACTOR OR DRILLED TIE BARS PLACED AS DIRECTED BY THE ENGINEER.

(3) PAVED CONCRETE SHOULDER (SDD 13A03) OR CONCRETE DRAINAGE SLAB.

(4) CONCRETE PAVEMENT APPROACH SLAB (SHOWN) OR STRUCTURE APPROACH SLAB AND CONCRETE PAVEMENT APPROACH SLAB. SEE SDD 13B02 AND STRUCTURE PLANS.

(5) PAVED CONCRETE SHOULDER (SDD 13A03) OR ASPHALT SHOULDER.

(6) CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE TBT OR TBTT. USE TYPE TBTT CURB WITH NO. 4 X 2' -0" TIE BARS SPACED AT 3' - 0" C-C ONLY WHEN ADJACENT TO CONCRETE PAVEMENTS.

(7) PLACE FLUME BEFORE MSG THRIE BEAM TRANSITION POST 1 (SEE SDD 14B45)

(8) CENTER FLUME BETWEEN POSTS. 6-INCH MINIMUM SEPARATION FROM OUTSIDE EDGE OF FLUME TO POSTS.

(9) MINIMUM REINFORCEMENT SHALL BE 4" X 4" - W3.0 X W3.0 OR NO. 3 BARS LONGITUDINAL AND TRANSVERSE SPACING 12" C -C.

(10) SEE ROADWAY PLANS FOR FLUME LOCATION.

(11) START CURB AND GUTTER TRANSITION OR END SECTION.

(12) DEPRESS FLOW LINE (SEE DETAIL)

(13) MEDIUM RIPRAP UNLESS OTHERWISE SPECIFIED.

(14) LIMITS OF ADDITIONAL RIPRAP WHEN SPECIAL DITCH IS REQUIRED.

(15) GEOTEXTILE TYPE HR.

(16) MINIMUM REINFORCEMENT SHALL BE 6" X 6" - W4.0 X W4.0 OR NO. 3 BARS LONGITUDINAL AND TRANSVERSE SPACING 12" C - C.

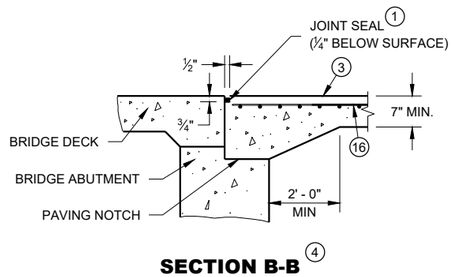
(17) MSG THRIE BEAM TRANSITION POST 1. SEE SDD 14B45 FOR ADDITIONAL CONSTRUCTION DETAILS AND ACCEPTABLE MATERIALS.

(18) MAINTAIN WIDTH, THICKNESS AND CROSS SLOPE OF ADJACENT TYPE TBT OR TBTT CURB. SEE NOTE 6 FOR TIE BAR SPACING.

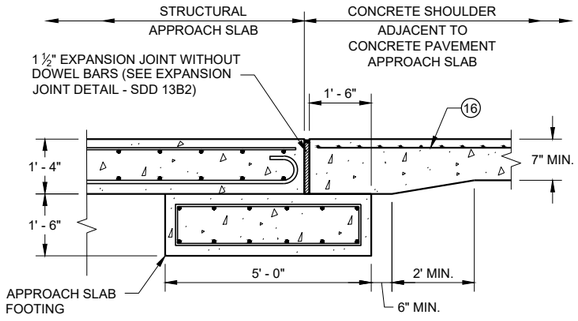
(19) ALIGN FACE OF POST BLOCK WITH FLOW LINE.

(20) MAINTAIN FLOW LINE AT EDGE OF PAVEMENT/FACE OF BEAM GUARD AS APPLICABLE.

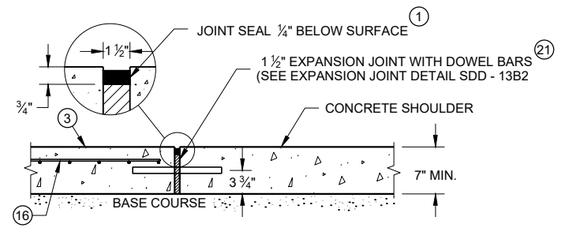
(21) DO NOT CONSTRUCT AN EXPANSION JOINT OR INSTALL DOWEL BARS WHEN ABUTTING HMA PAVEMENTS.



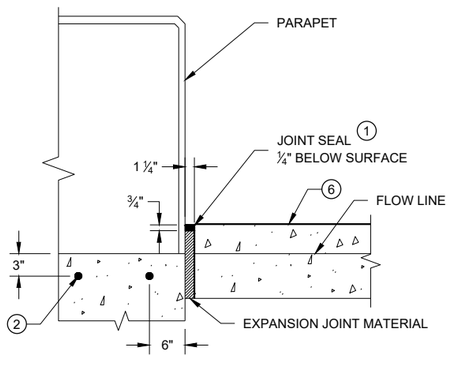
SECTION B-B



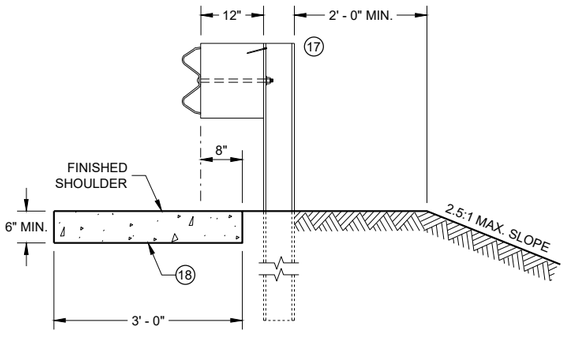
SECTION C - C
JOINT DETAIL FOR BRIDGE WITH STRUCTURAL APPROACH SLAB AND CONCRETE APPROACH SLAB



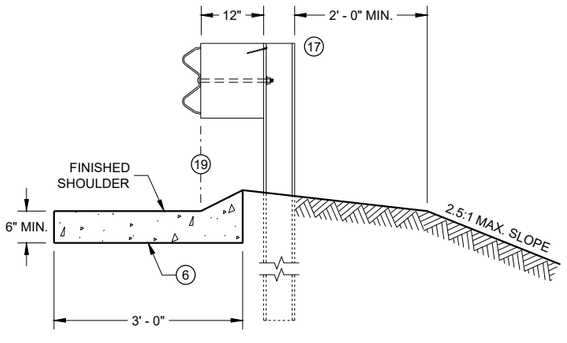
SECTION C - C
JOINT DETAIL FOR BRIDGE APPROACH WITH CONCRETE SHOULDERS



SECTION D - D



SECTION E - E



SECTION F - F

CONCRETE SURFACE DRAINS FLUME TYPE AT STRUCTURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2023
DATE
/S/ Rodney Taylor
ROADWAY STANDARDS DEVE ENGINEER

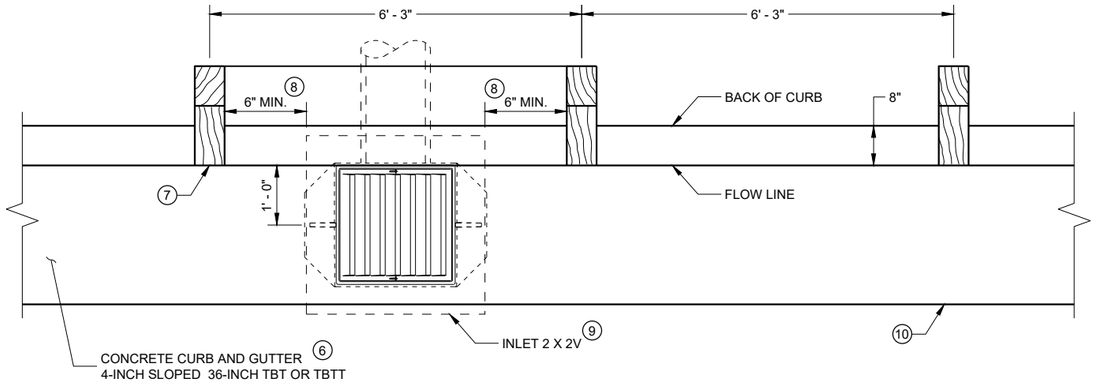
FHWA

6

SDD 08D02 - 08c

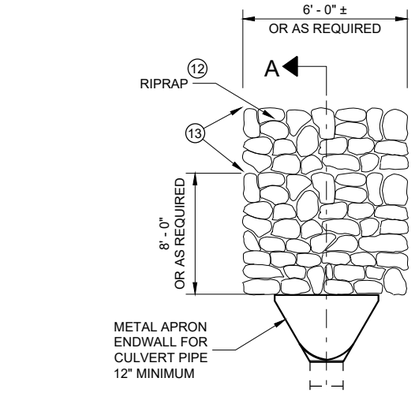
6

SDD 08D02 - 08c



INLET PLAN VIEW

(NOTE: RAIL NOT SHOWN FOR CLARITY)



GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

ALL STEEL REINFORCEMENT SHALL BE EMBEDDED 2 INCHES CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

(1) USE A JOINT SEALANT CONFORMING TO STANDARD SPECIFICATION 415.2.6.

(2) NO. 4 X 2' - 0" TIE BARS SPACED AT 12" C-C TO BE PLACED BY BRIDGE CONTRACTOR OR DRILLED TIE BARS PLACED AS DIRECTED BY THE ENGINEER.

(3) PAVED CONCRETE SHOULDER (SDD 13A03) OR CONCRETE DRAINAGE SLAB.

(4) CONCRETE PAVEMENT APPROACH SLAB (SHOWN) OR STRUCTURE APPROACH SLAB AND CONCRETE PAVEMENT APPROACH SLAB. SEE SDD 13B02.

(5) PAVED CONCRETE SHOULDER (SDD 13A03) OR ASPHALT SHOULDER.

(6) CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE TBT OR TBTT. USE TYPE TBTT CURB WITH NO. 4 X 2' -0" TIE BARS SPACED AT 3' - 0" C-C ONLY WHEN ADJACENT TO CONCRETE PAVEMENTS.

(7) PLACE DRAINAGE STRUCTURE BEFORE MSG THRIE BEAM TRANSITION POST 1 (SEE SDD 14B45)

(8) CENTER DRAINAGE STRUCTURE BETWEEN POSTS. 6-INCH MINIMUM SEPARATION FROM OUTSIDE WALL OF DRAINAGE STRUCTURE TO POSTS.

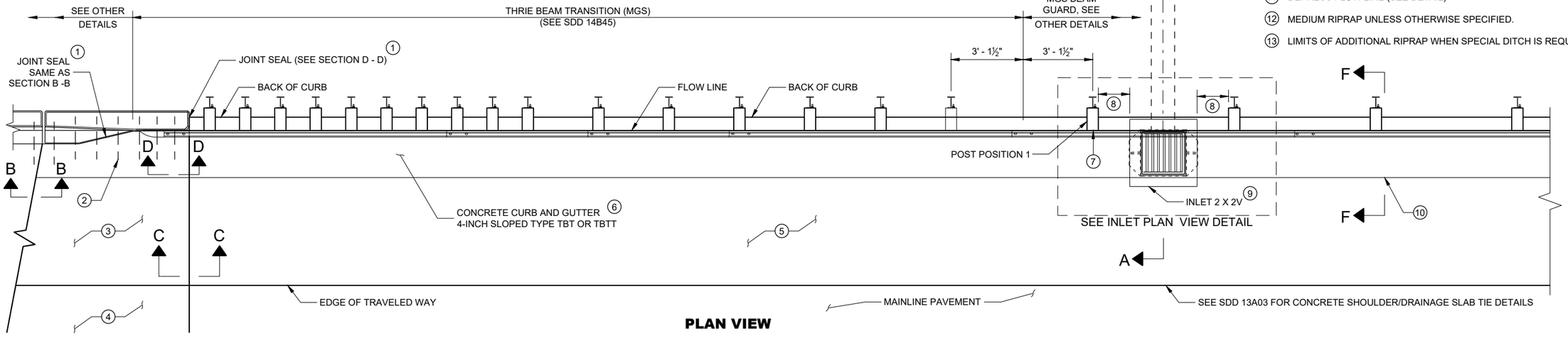
(9) SEE SDD 08A05 AND 08C07 FOR DETAILS. SEE ROADWAY PLANS FOR LOCATION.

(10) START CURB AND GUTTER TRANSITION OR END SECTION.

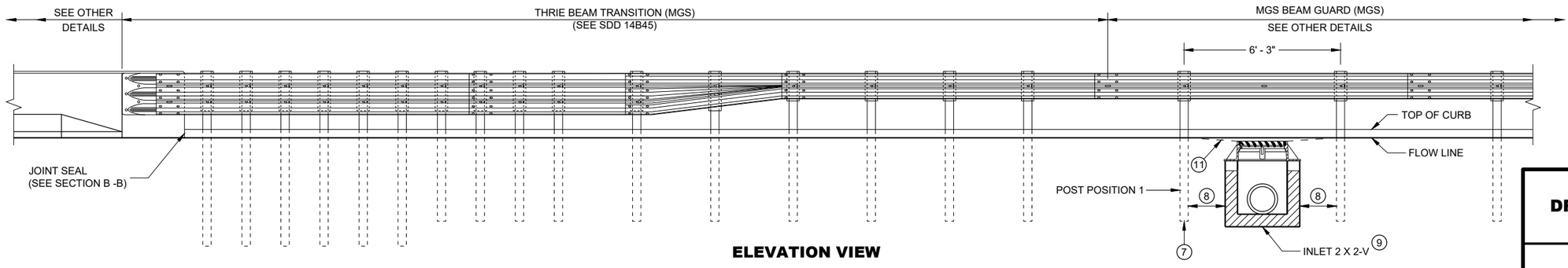
(11) DEPRESS FLOW LINE (SEE DETAIL)

(12) MEDIUM RIPRAP UNLESS OTHERWISE SPECIFIED.

(13) LIMITS OF ADDITIONAL RIPRAP WHEN SPECIAL DITCH IS REQUIRED.



PLAN VIEW



ELEVATION VIEW

CONCRETE SURFACE DRAINS DROP INLET TYPE AT STRUCTURES

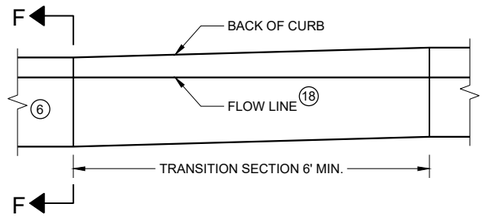
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

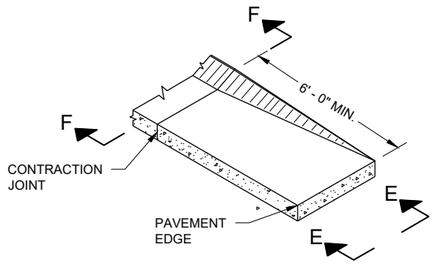
SDD 08D03 - 09a

6

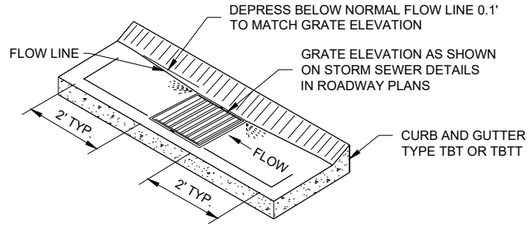
SDD 08D03 - 09a



CURB AND GUTTER TRANSITION SECTION CONCRETE CURB AND GUTTER 4-INCH SLOPED 36 INCH TYPE TBT OR TBTT



CURB AND GUTTER END SECTION CONCRETE CURB AND GUTTER 4-INCH SLOPED 36 INCH TYPE TBT OR TBTT



CURB AND GUTTER FLOW LINE DEPRESSION AT INLETS CONCRETE CURB AND GUTTER 4-INCH SLOPED 36 INCH TYPE TBT OR TBTT

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

ALL STEEL REINFORCEMENT SHALL BE EMBEDDED 2 INCHES CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

(1) USE A JOINT SEALANT CONFORMING TO STANDARD SPECIFICATION 415.2.6.

(2) NO. 4 X 2' - 0" TIE BARS SPACED AT 12" C-C TO BE PLACED BY BRIDGE CONTRACTOR OR DRILLED TIE BARS PLACED AS DIRECTED BY THE ENGINEER.

(3) PAVED CONCRETE SHOULDER (SDD 13A03) OR CONCRETE DRAINAGE SLAB.

(4) CONCRETE PAVEMENT APPROACH SLAB (SHOWN) OR STRUCTURE APPROACH SLAB AND CONCRETE PAVEMENT APPROACH SLAB. SEE SDD 13B02 AND STRUCTURE PLANS.

(5) PAVED CONCRETE SHOULDER (SDD 13A03) OR ASPHALT SHOULDER.

(6) CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE TBT OR TBTT. USE TYPE TBTT CURB WITH NO. 4 X 2' -0" TIE BARS SPACED AT 3' - 0" C-C ONLY WHEN ADJACENT TO CONCRETE PAVEMENTS.

(7) PLACE DRAINAGE STRUCTURE BEFORE MSG THRIE BEAM TRANSITION POST 1 (SEE SDD 14B45)

(8) CENTER DRAINAGE STRUCTURE BETWEEN POSTS. 6-INCH MINIMUM SEPARATION FROM OUTSIDE WALL OF DRAINAGE STRUCTURE TO POSTS.

(9) SEE SDD 08A05 AND 08C07 FOR DETAILS. SEE ROADWAY PLANS FOR LOCATION.

(10) START CURB AND GUTTER TRANSITION OR END SECTION.

(11) DEPRESS FLOW LINE (SEE DETAIL)

(12) MEDIUM RIPRAP UNLESS OTHERWISE SPECIFIED.

(13) LIMITS OF ADDITIONAL RIPRAP WHEN SPECIAL DITCH IS REQUIRED.

(14) GEOTEXTILE TYPE HR.

(15) MSG THRIE BEAM TRANSITION POST 1. SEE SDD 14B45 FOR ADDITIONAL CONSTRUCTION DETAILS AND ACCEPTABLE MATERIALS.

(16) MAINTAIN WIDTH, THICKNESS AND CROSS SLOPE OF ADJACENT TYPE TBT OR TBTT CURB. SEE NOTE 6 FOR TIE BAR SPACING.

(17) ALIGN FACE OF POST BLOCK WITH FLOW LINE.

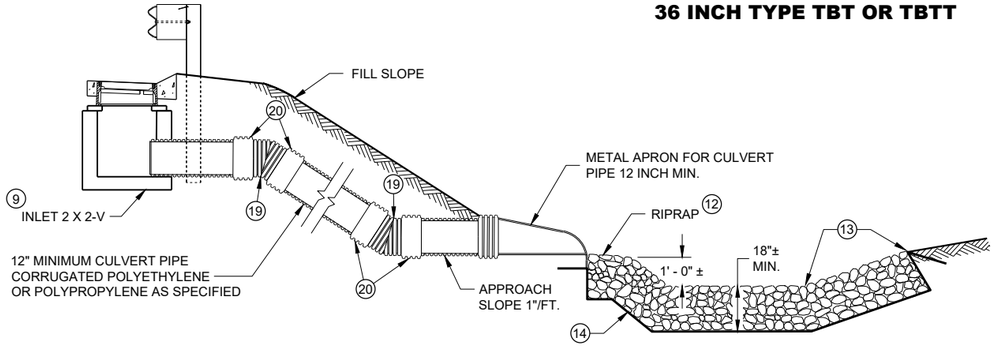
(18) MAINTAIN FLOW LINE AT EDGE OF PAVEMENT/FACE OF BEAM GUARD AS APPLICABLE.

(19) MANUFACTURER SUPPLIED BEND.

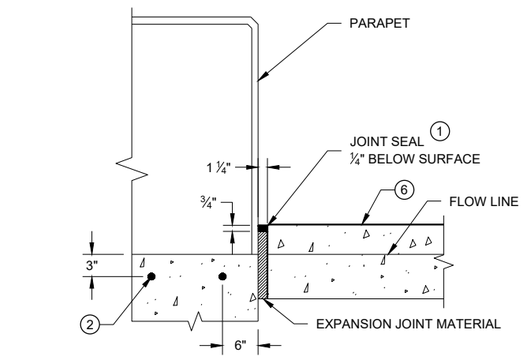
(20) MANUFACTURER SUPPLIED EXTERNAL MECHANICAL COUPLING OR A MANUFACTURER RECOMMENDED COUPLING WITH A MASTIC IMPREGNATED GEOTEXTILE WRAP AND MECHANICAL FASTENING BANDS.

(21) MINIMUM REINFORCEMENT SHALL BE 6" X 6" - W4.0 X W4.0 OR NO. 3 BARS LONGITUDINAL AND TRANSVERSE SPACING 12" C - C.

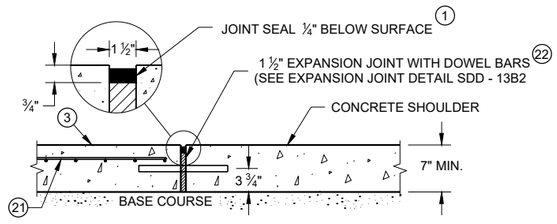
(22) DO NOT CONSTRUCT AN EXPANSION JOINT OR INSTALL DOWEL BARS WHEN ABUTTING HMA PAVEMENTS.



SECTION A - A

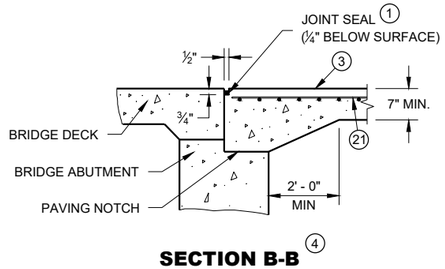


SECTION D - D

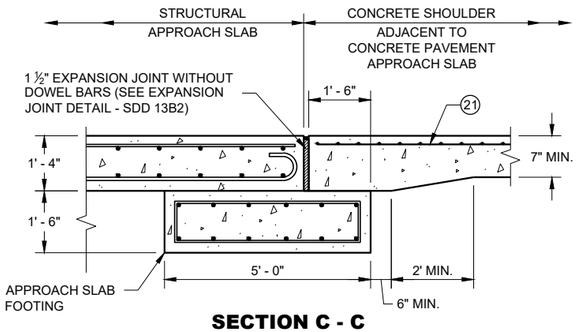


SECTION C - C

JOINT DETAIL FOR BRIDGE APPROACH WITH CONCRETE SHOULDERS

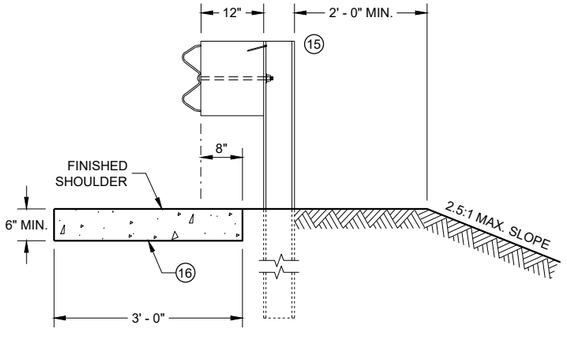


SECTION B-B (4)

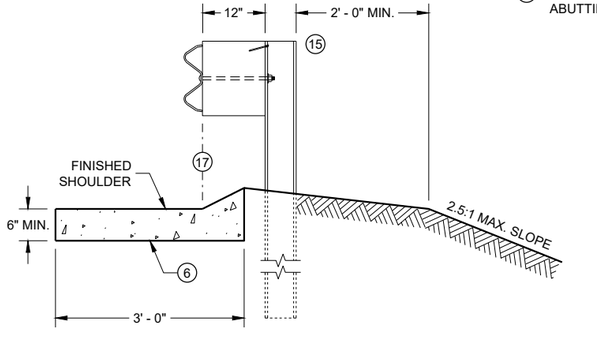


SECTION C - C

JOINT DETAIL FOR BRIDGE WITH STRUCTURAL APPROACH SLAB AND CONCRETE APPROACH SLAB



SECTION E - E



SECTION F - F

CONCRETE SURFACE DRAINS DROP INLET TYPE AT STRUCTURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2023 — DATE
/S/ Rodney Taylor — ROADWAY STANDARDS DEVE ENGINEER

FHWA

6

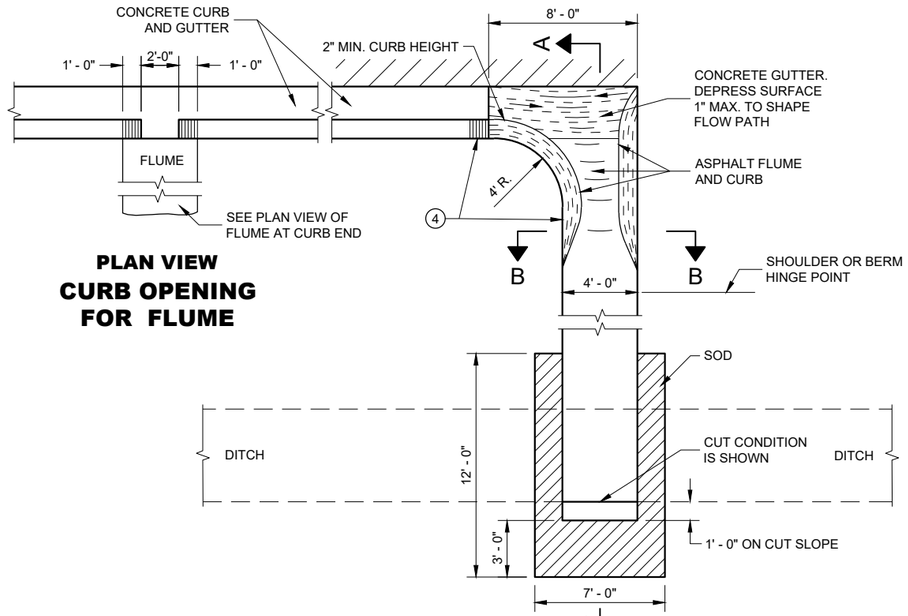
SDD 08D03 - 09b

6

SDD 08D03 - 09b

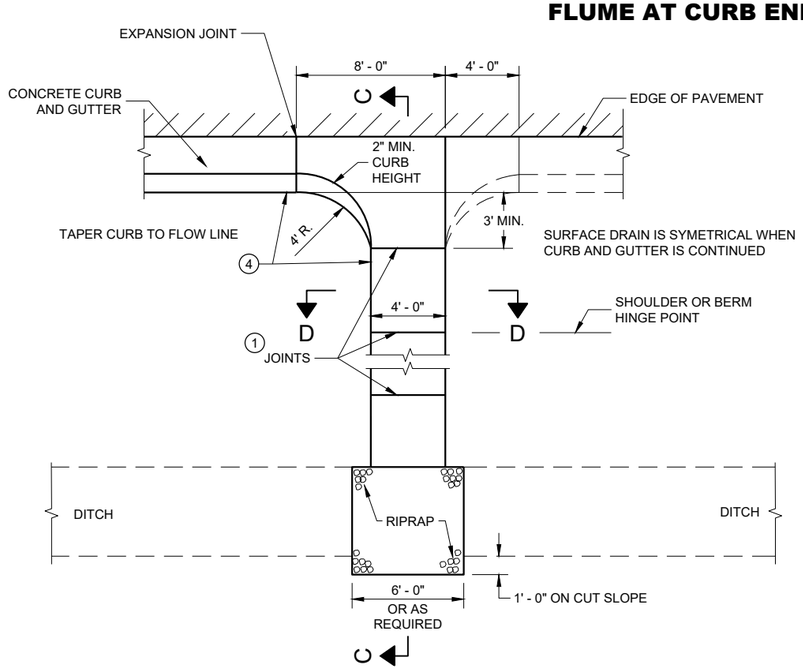
NOTE: TAPER CURB ENDS TO GUTTER IN 1' - 0"

ASPHALTIC FLUME



PLAN VIEW
CURB OPENING FOR FLUME

PLAN VIEW
FLUME AT CURB END



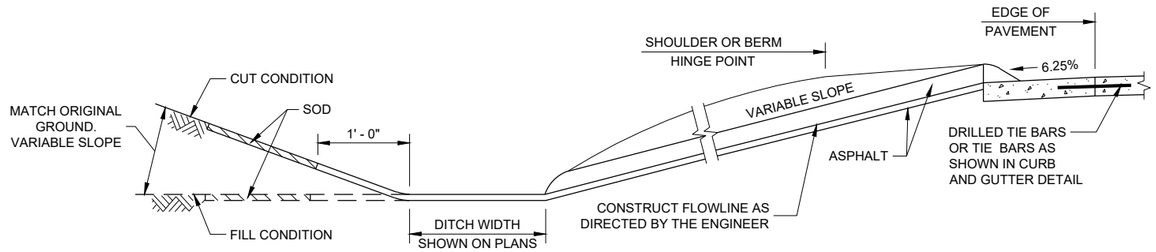
PLAN VIEW
CONCRETE SURFACE DRAIN

GENERAL NOTES

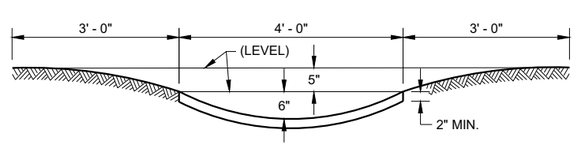
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

4" X 4" - W3.0 X W3.0 CONCRETE REINFORCEMENT SHALL BE IN ACCORDANCE WITH AASHTO SPECIFICATION M55.

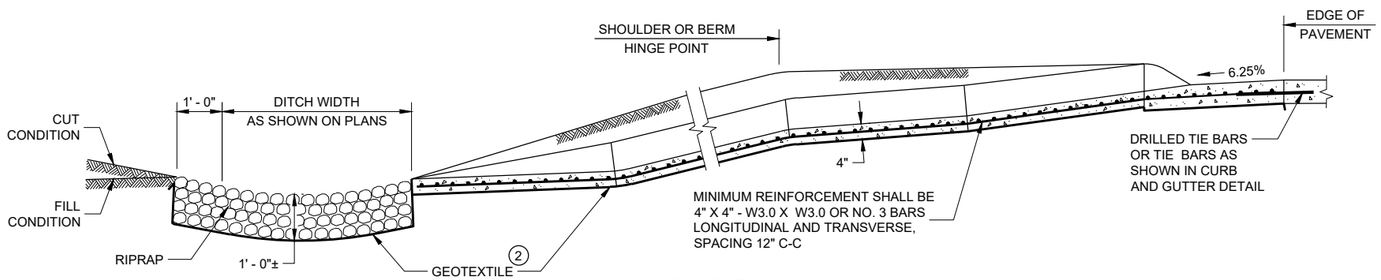
1. JOINTS SHALL BE ⅛" TO ¼" WIDE BY 1½" DEEP AND SPACED AT UNIFORM INTERVALS OF APPROXIMATELY 4 FEET.
2. GEOTEXTILE TYPE "R" SHALL UNDERLAY THE FULL LENGTH AND WIDTH OF THE CONCRETE SURFACE DRAIN AND RIPRAP.
3. CONCRETE SURFACE DRAIN WITHOUT CURB AND GUTTER MAY BE USED ON BACKSLOPES WHEN SPECIFIED.
4. ANGLE OF FLUME IN RELATION TO BACK OF CURB TO BE CONSTRUCTED PER THE PLAN DETAILS OR AS DIRECTED BY THE ENGINEER. ANGLE OF FLUME MAY BE OTHER THAN 90 DEGREES AS SHOWN.



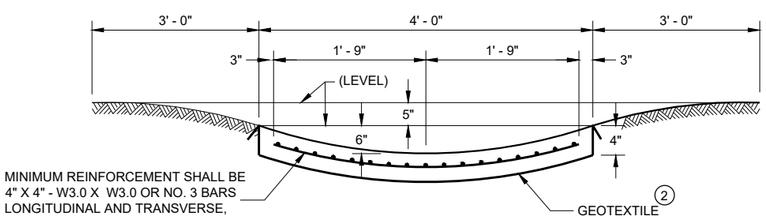
SECTION A - A



SECTION B - B



SECTION C - C



SECTION D - D

CONCRETE SURFACE DRAINS AND ASPHALTIC FLUMES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2023
DATE

/S/ Rodney Taylor
ROADWAY STANDARDS DEVE ENGINEER

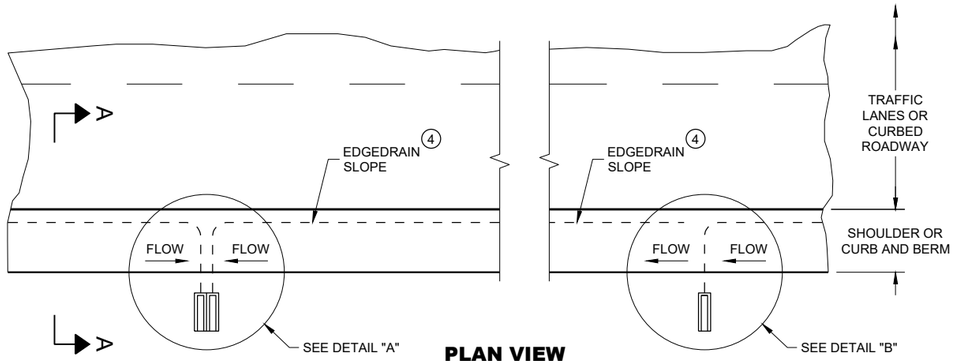
FHWA

6

SDD 08D04 - 07

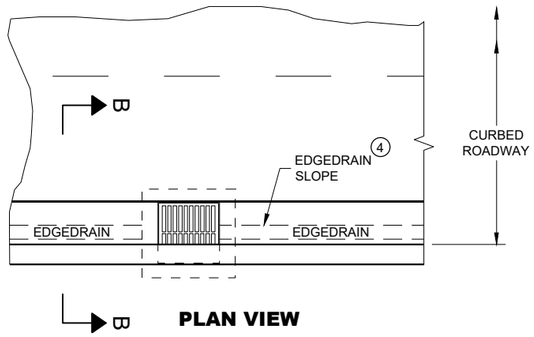
6

SDD 08D04 - 07



PLAN VIEW

ROADWAY WITH SHOULDERS OR CURBS
(EDGEDRAIN CONNECTS TO ROADSIDE) (2)



PLAN VIEW

ROADWAY WITH CURBS
(EDGEDRAIN CONNECTS INTO INLET STRUCTURE)

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

(1) UNPERFORATED PIPE UNDERDRAIN AND FITTINGS FURNISHED FOR OUTFALL PIPE SHALL MEET THE REQUIREMENTS OF ONE OF THE FOLLOWING SPECIFICATIONS:

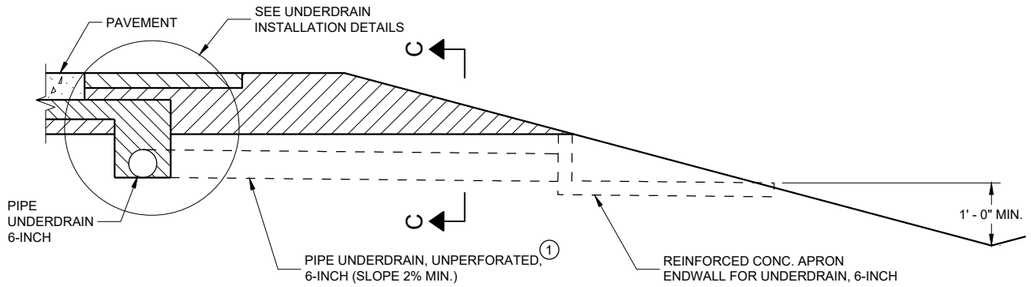
POLYVINYL CHLORIDE (PVC) PLASTIC DRAIN, WASTE, AND VENT PIPE AND FITTINGS, ASTM D 2665, SCHEDULE 40 PVC.

TYPE PSM POLYVINYL CHLORIDE (PVC) SEWER PIPE AND FITTINGS, ASTM D 3034, SDR 23.5 PVC SEWER PIPE.

(2) MAXIMUM SPACING OF EDGEDRAIN OUTLETS SHALL BE 250 FEET UNLESS OTHERWISE SPECIFIED IN THE CONTRACT OR DIRECTED BY THE ENGINEER.

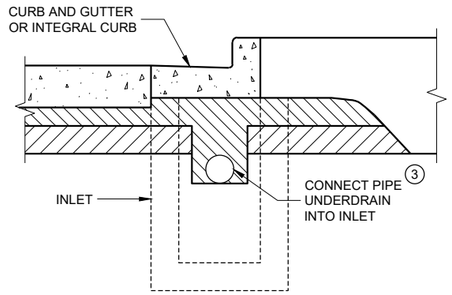
(3) EDGEDRAIN SHALL BE CONNECTED TO INLETS REGARDLESS OF FLOW DIRECTION FOR DRAINAGE AND MAINTENANCE ACCESS.

(4) EDGEDRAIN SHALL BE LAID PARALLEL TO THE GRADE OF ROADWAY.



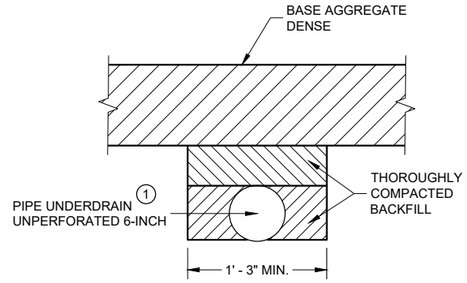
SECTION A - A

RURAL CROSS SECTION



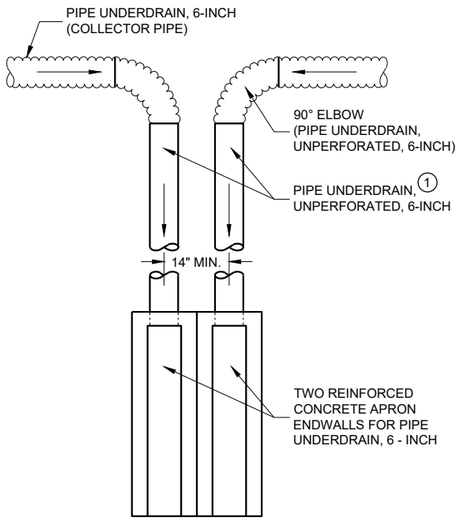
SECTION B - B

URBAN CROSS SECTION

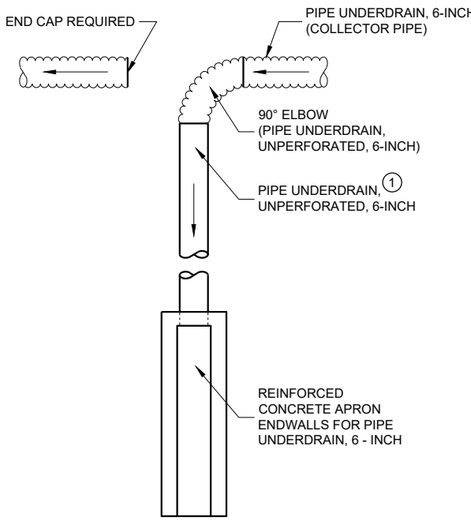


SECTION C - C

TRENCH FOR OUTFALL PIPE

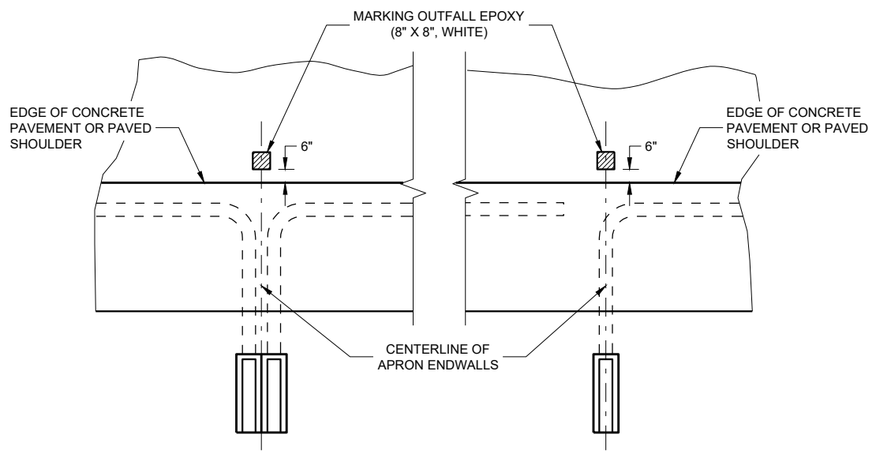


DETAIL "A"
TO BE USED AT LOW POINT LOCATIONS



DETAIL "B"
TO BE USED AT INTERMEDIATE LOCATIONS

TYPICAL DRAIN OUT DETAILS



LOW POINT LOCATIONS — INTERMEDIATE LOCATIONS

PAVEMENT MARKINGS FOR OUTFALL MARKERS

EDGEDRAIN OUTLET AND OUTFALL MARKERS

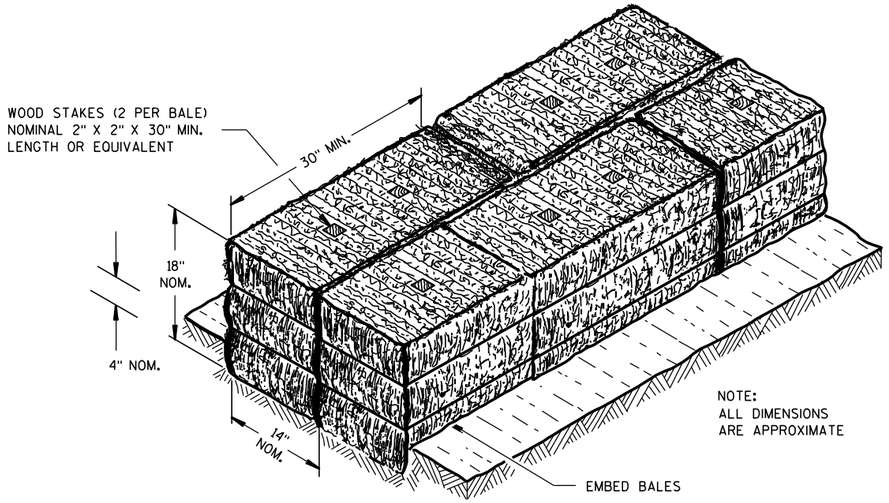
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

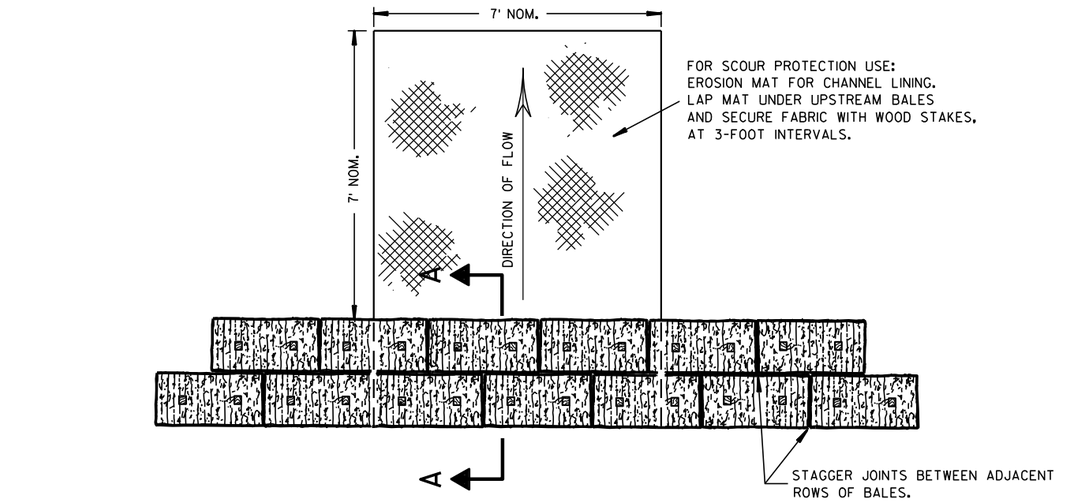
SDD08D15 - 05a

6

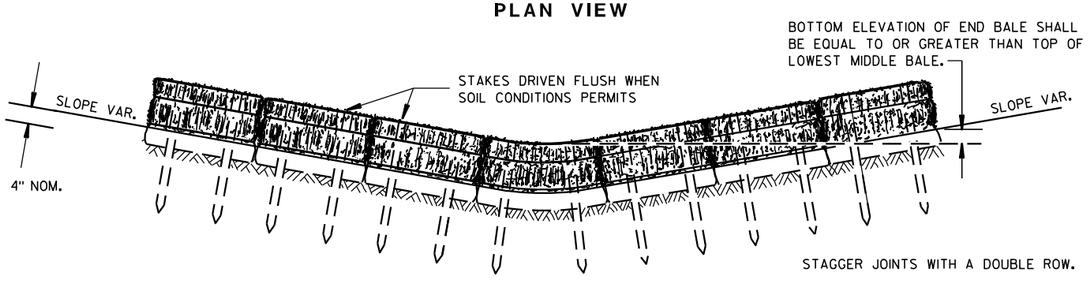
SDD08D15 - 05a



SECTION A-A



PLAN VIEW



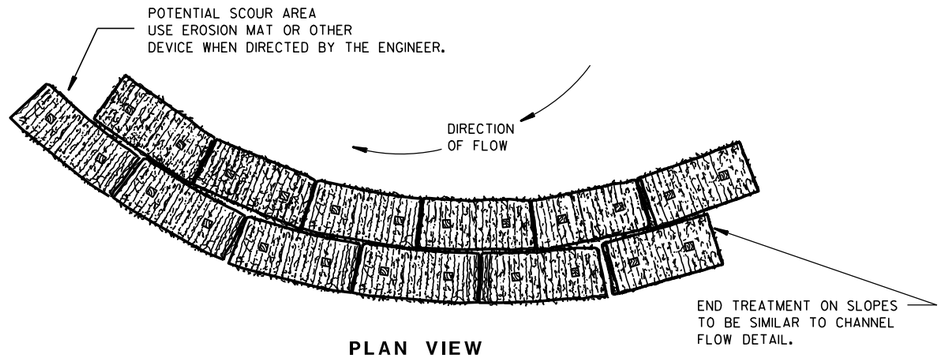
FRONT ELEVATION

TEMPORARY DITCH CHECK USING EROSION BALES (1)

GENERAL NOTES

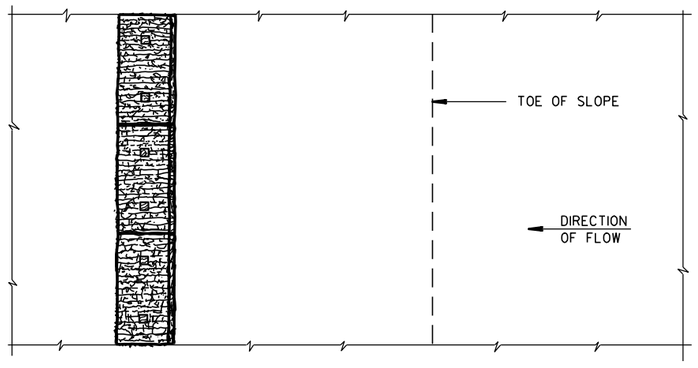
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

(1) TEMPORARY DITCH CHECKS EITHER EROSION BALES OR MANUFACTURED SHALL BE PAID FOR UNDER THE BID ITEM OF TEMPORARY DITCH CHECK. THE DEPARTMENT WILL NOT PAY FOR TEMPORARY DITCH CHECKS CONSTRUCTED OF A SINGLE ROW OF EROSION BALES.

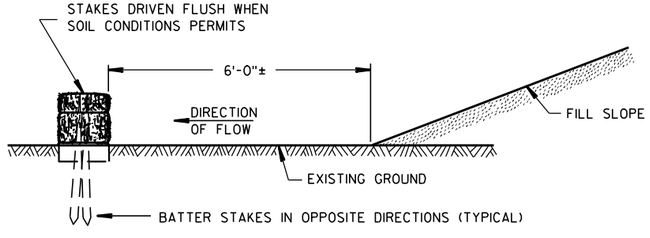


PLAN VIEW

WHEN ALTERING THE DIRECTION OF FLOW



PLAN VIEW



FRONT ELEVATION

WHEN EXISTING GROUND SLOPES AWAY FROM FILL SLOPE

EROSION BALES FOR SHEET FLOW

TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

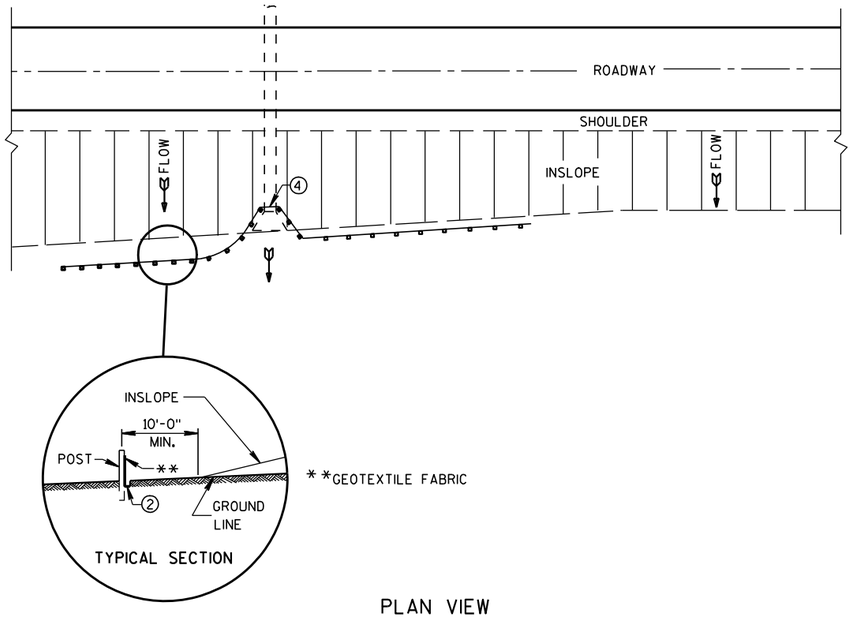
APPROVED

6/04/02 — DATE

/S/ Beth Cannestra — CHIEF ROADWAY DEVELOPMENT ENGINEER

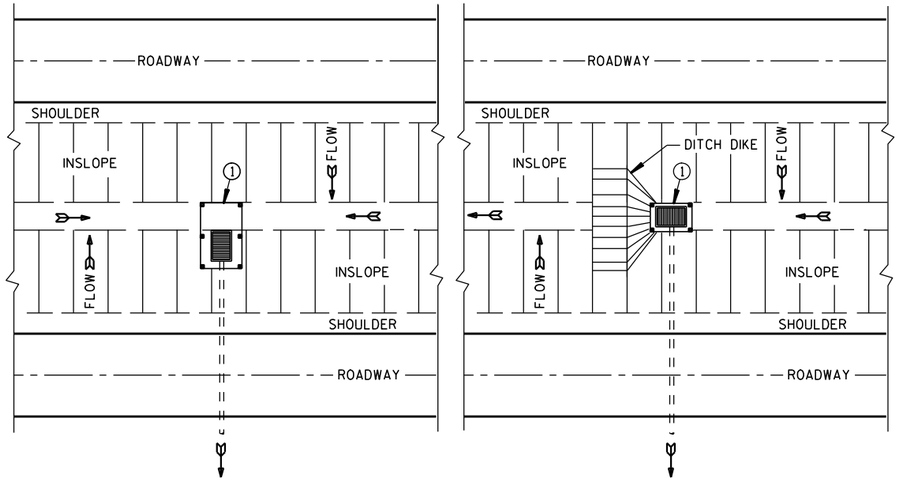
FHWA

6
S.D.D. 8 E 8-3



PLAN VIEW

TYPICAL APPLICATION OF SILT FENCE



PLAN VIEW

SILT FENCE AT MEDIAN SURFACE DRAINS

GENERAL NOTES

DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

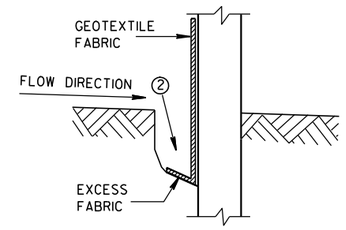
① HORIZONTAL BRACE REQUIRED WITH 2" X 4" WOODEN FRAME OR EQUIVALENT AT TOP OF POSTS.

② FOR MANUAL INSTALLATIONS THE TRENCH SHALL BE A MINIMUM OF 4" WIDE & 6" DEEP TO BURY AND ANCHOR THE GEOTEXTILE FABRIC. FOLD MATERIAL TO FIT TRENCH AND BACKFILL & COMPACT TRENCH WITH EXCAVATED SOIL.

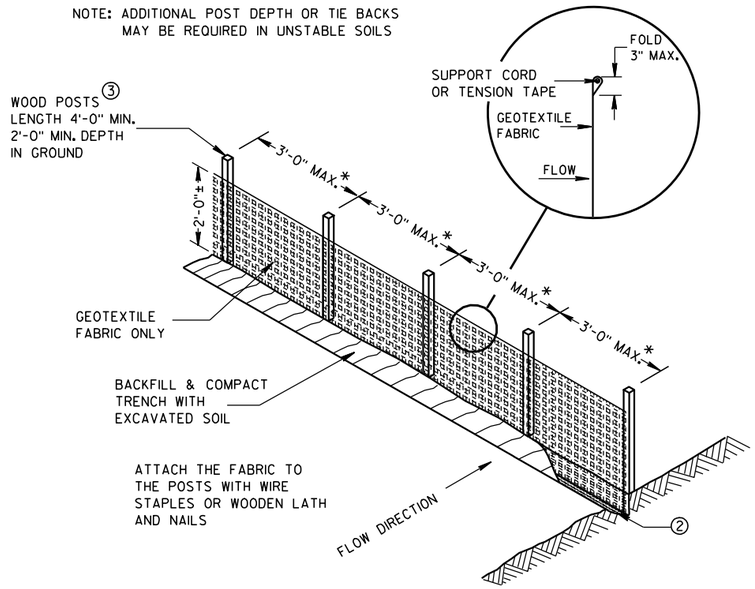
③ WOOD POSTS SHALL BE A MINIMUM SIZE OF 1⅛" X 1⅛" OF OAK OR HICKORY.

④ SILT FENCE TO EXTEND ACROSS THE TOP OF THE PIPE.

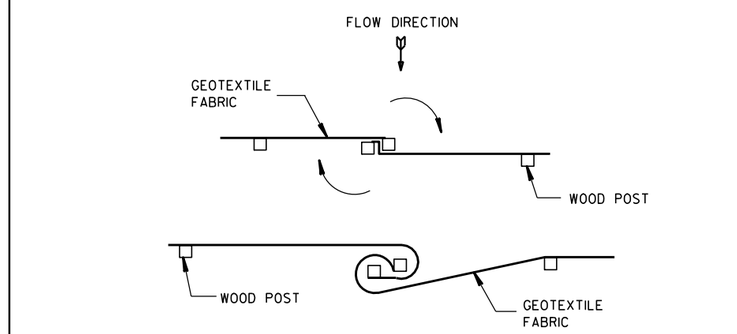
⑤ CONSTRUCT SILT FENCE FROM A CONTINUOUS ROLL IF POSSIBLE BY CUTTING LENGTHS TO AVOID JOINTS. IF A JOINT IS NECESSARY USE ONE OF THE FOLLOWING TWO METHODS; A) OVERLAP THE END POSTS AND TWIST, OR ROTATE, AT LEAST 180 DEGREES, B) HOOK THE END OF EACH SILT FENCE LENGTH.



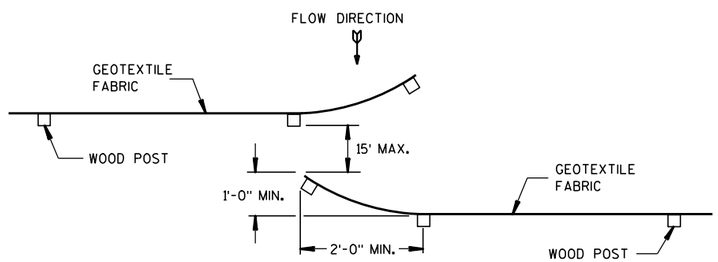
TRENCH DETAIL



SILT FENCE

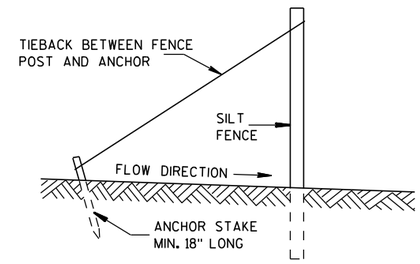


TWIST METHOD



HOOK METHOD

JOINING TWO LENGTHS OF SILT FENCE ⑤



SILT FENCE TIE BACK

(WHEN REQUIRED BY THE ENGINEER)

SILT FENCE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

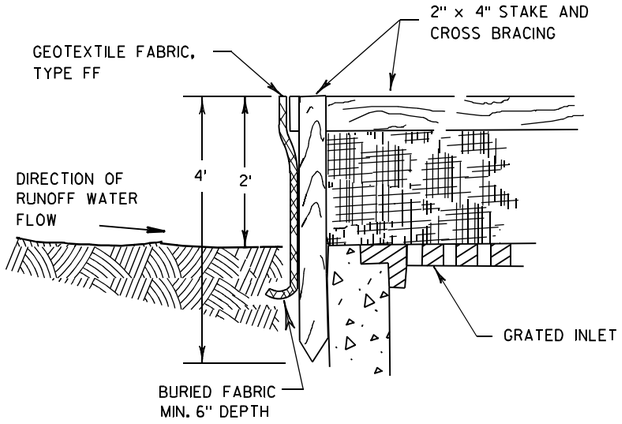
APPROVED
4-29-05
DATE
/S/ Beth Cannestra
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

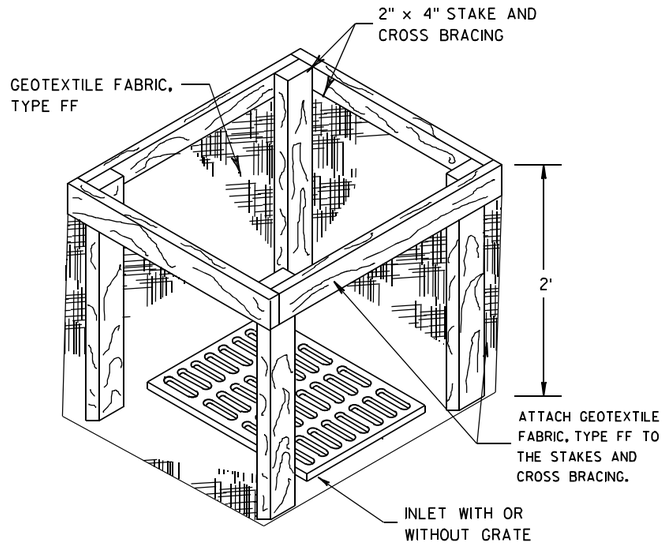
6

S.D.D. 8 E 9-6

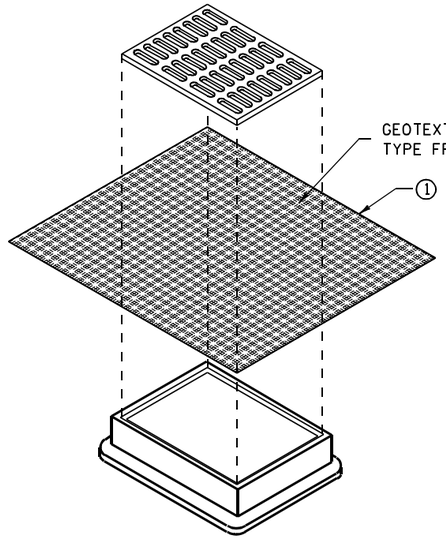
6

S.D.D. 8 E 9-6



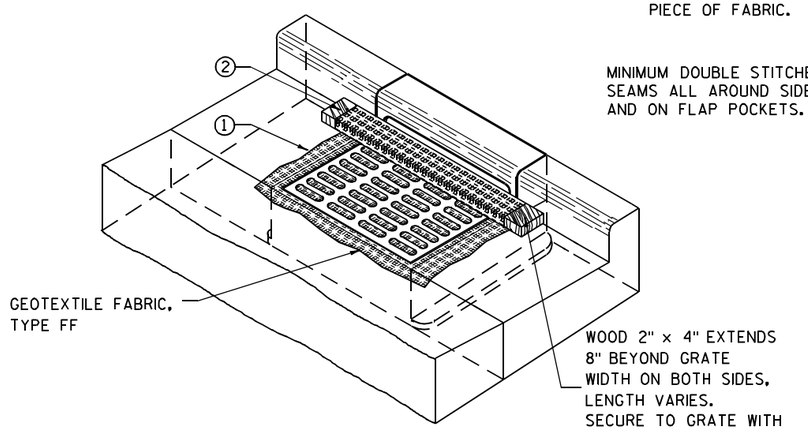


INLET PROTECTION, TYPE A

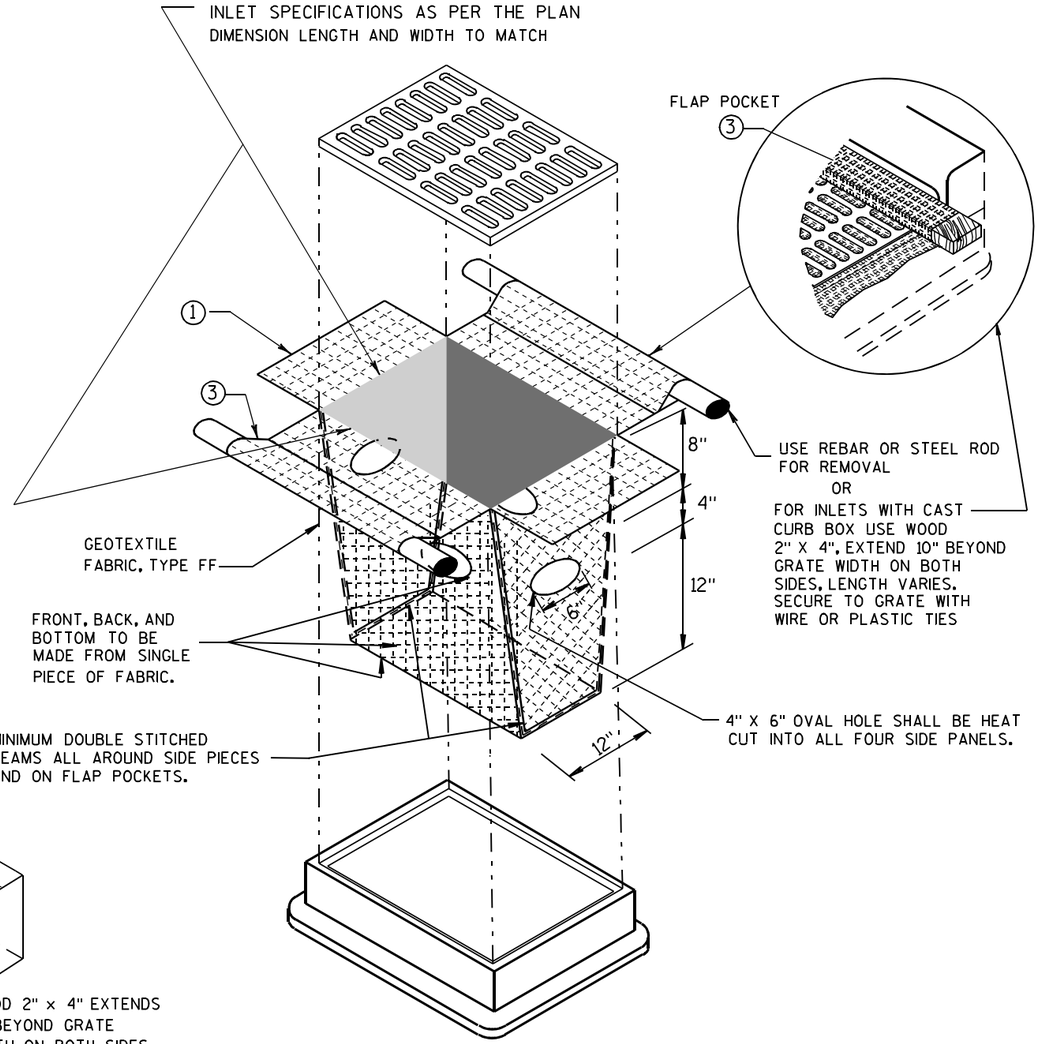


INLET PROTECTION, TYPE B
(WITHOUT CURB BOX)

(CAN BE INSTALLED IN ANY INLET WITHOUT A CURB BOX)



INLET PROTECTION, TYPE C (WITH CURB BOX)



INLET PROTECTION, TYPE D

(CAN BE INSTALLED IN ANY INLET TYPE WITH
OR WITHOUT A CURB BOX AS PER NOTE ②)

GENERAL NOTES

INLET PROTECTION DEVICES SHALL BE MAINTAINED OR REPLACED AT THE DIRECTION OF THE ENGINEER.

MANUFACTURED ALTERNATIVES APPROVED AND LISTED ON THE DEPARTMENT'S EROSION CONTROL PRODUCT ACCEPTABILITY LIST MAY BE SUBSTITUTED.

WHEN REMOVING OR MAINTAINING INLET PROTECTION, CARE SHALL BE TAKEN SO THAT THE SEDIMENT TRAPPED ON THE GEOTEXTILE FABRIC DOES NOT FALL INTO THE INLET. ANY MATERIAL FALLING INTO THE INLET SHALL BE REMOVED IMMEDIATELY.

① FINISHED SIZE, INCLUDING FLAP POCKETS WHERE REQUIRED, SHALL EXTEND A MINIMUM OF 10" AROUND THE PERIMETER TO FACILITATE MAINTENANCE OR REMOVAL.

② FOR INLET PROTECTION, TYPE C (WITH CURB BOX), AN ADDITIONAL 18" OF FABRIC IS WRAPPED AROUND THE WOOD AND SECURED WITH STAPLES. THE WOOD SHALL NOT BLOCK THE ENTIRE HEIGHT OF THE CURB BOX OPENING.

③ FLAP POCKETS SHALL BE LARGE ENOUGH TO ACCEPT WOOD 2X4.

INSTALLATION NOTES

TYPE B & C

TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE.

THE CONTRACTOR SHALL DEMONSTRATE A METHOD OF MAINTENANCE, USING A SEWN FLAP, HAND HOLDS OR OTHER METHOD TO PREVENT ACCUMULATED SEDIMENT FROM ENTERING THE INLET.

TYPE D

DO NOT INSTALL INLET PROTECTION TYPE D IN INLETS SHALLOWER THAN 30", MEASURED FROM THE BOTTOM OF THE INLET TO THE TOP OF THE GRATE.

TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE.

THE INSTALLED BAG SHALL HAVE A MINIMUM SIDE CLEARANCE, BETWEEN THE INLET WALLS AND THE BAG, MEASURED AT THE BOTTOM OF THE OVERFLOW HOLES, OF 3". WHERE NECESSARY THE CONTRACTOR SHALL CINCH THE BAG, USING PLASTIC ZIP TIES, TO ACHIEVE THE 3" CLEARANCE. THE TIES SHALL BE PLACED AT A MAXIMUM OF 4" FROM THE BOTTOM OF THE BAG.

INLET PROTECTION
TYPE A, B, C, AND D

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

10/16/02
DATE

/S/ Beth Cannestra
CHIEF ROADWAY DEVELOPMENT ENGINEER

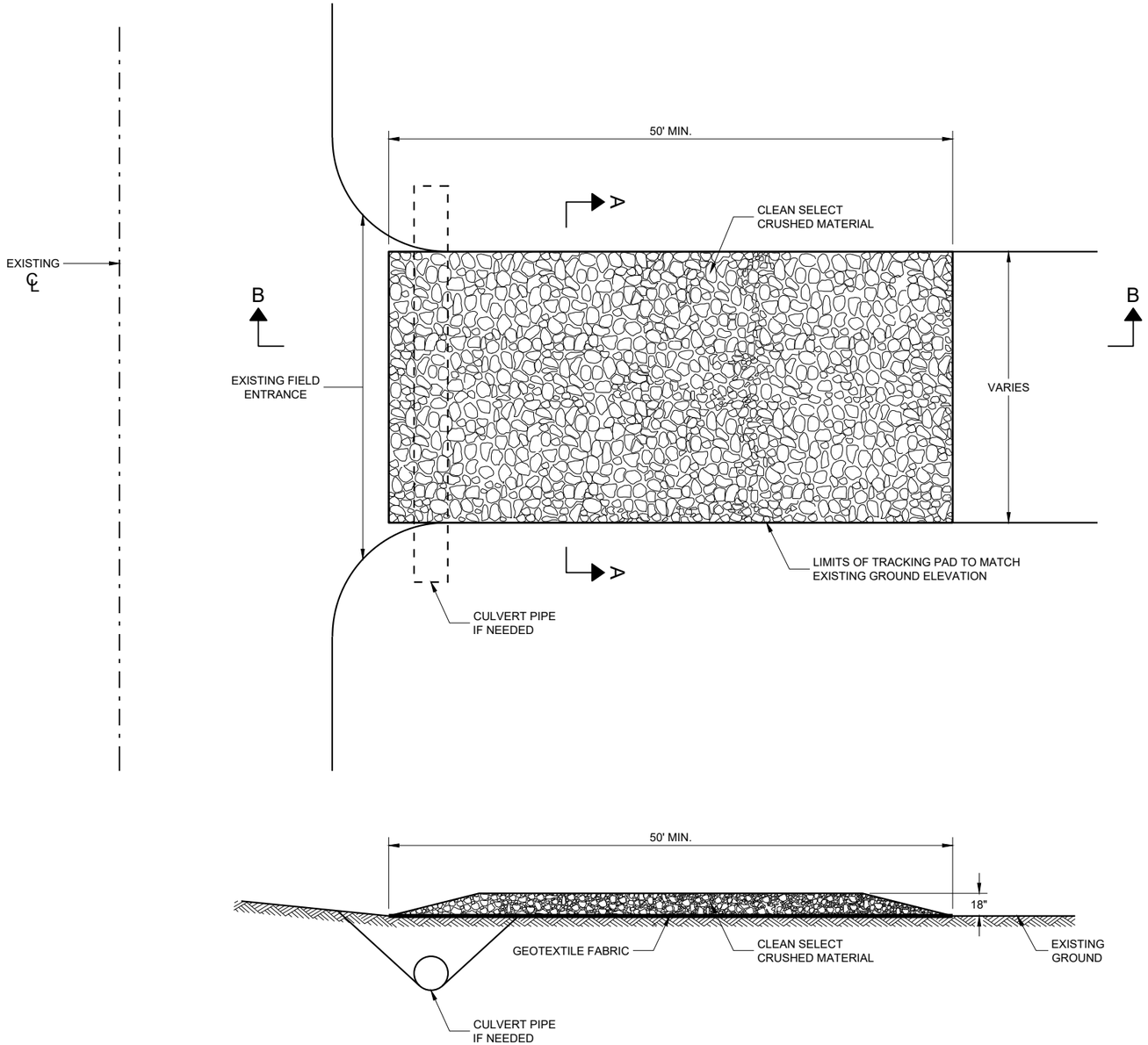
FHWA

6

S.D.D. 8 E 10-2

6

S.D.D. 8 E 10-2



SECTION B - B

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

TRACKING PAD SHALL BE INSPECTED DAILY. DEFICIENT AREAS SHALL BE REPAIRED OR REPLACED IMMEDIATELY.

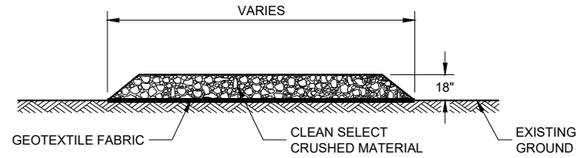
TRACKING PAD TO BE REMOVED AFTER CONSTRUCTION IS COMPLETED.

TRACKING PAD SHALL BE THE FULL WIDTH OF THE EGRESS POINT.

SURFACE WATER MUST BE PREVENTED FROM PASSING THROUGH THE TRACKING PAD. FLOWS SHALL BE DIVERTED AWAY, AROUND OR CONVEYED UNDER THE TRACKING PAD.

CULVERT PIPE OR OTHER BMP USED TO DIVERT WATER AWAY, AROUND OR UNDER THE TRACKING PAD SHALL BE DESIGNED TO CONVEY THE 2 YEAR - 24 HOUR EVENT.

THE COST OF ADDITIONAL BMP TO DIVERT WATER ARE INCIDENTAL TO THE TRACKING PAD BID ITEM.



SECTION A - A

TRACKING PAD

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

3/24/2011
DATE

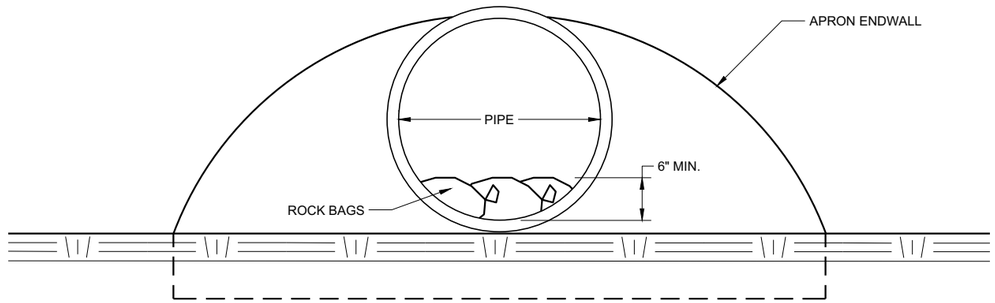
/S/ Jerry H. Zogg
ROADWAY STANDARDS DEVE ENGINEER

FHWA

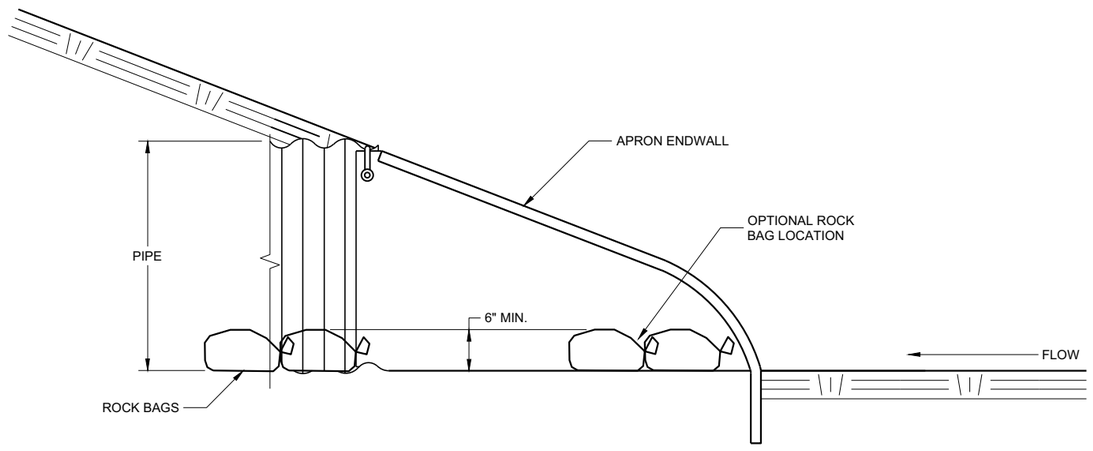
6

SDD 08E14 - 01

SDD 08E14 - 01



END VIEW



SIDE VIEW

CULVERT PIPE CHECK

(INSTALL ON INLET END ONLY)

CULVERT PIPE CHECK	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED May 2019 DATE	/S/ Daniel Schave EROSION CONTROL ENGI
FHWA	

6
SDD 08E15 - 01

METAL APRON ENDWALLS

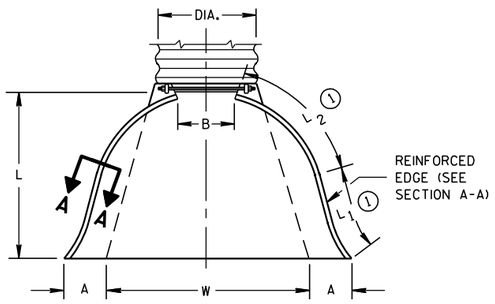
PIPE DIA. (IN.)	MIN. THICK. (Inches) STEEL	MIN. THICK. (Inches) ALUM.	DIMENSIONS (Inches) A (±1")	B (MAX.)	H (±1")	L (±1 1/2")	L1 ①	L2 ①	W (±2")	APPROX. SLOPE	BODY
12	.064	.060	6	6	6	21	12	17 1/2	24	2 1/2 to 1	1 Pc.
15	.064	.060	7	8	6	26	14	21 3/4	30	2 1/2 to 1	1 Pc.
18	.064	.060	8	10	6	31	15	28 1/4	36	2 1/2 to 1	1 Pc.
21	.064	.060	9	12	6	36	18	29 5/8	42	2 1/2 to 1	1 Pc.
24	.064	.075	10	13	6	41	18	37 1/4	48	2 1/2 to 1	1 Pc.
30	.079	.075	12	16	8	51	18	52 1/4	60	2 1/2 to 1	1 Pc.
36	.079	.105	14	19	9	60	24	59 3/4	72	2 1/2 to 1	2 Pc.
42	.109	.105	16	22	11	69	24	75 5/8	84	2 1/2 to 1	2 Pc.
48	.109	.105	18	27	12	78	24	81	90	2 1/4 to 1	3 Pc.
54	.109	.105	18	30	12	84	30	85 1/2	102	2 1/4 to 1	3 Pc.
60	.109×	.105×	18	33	12	87	—	—	114	2 to 1	3 Pc.
66	.109×	.105×	18	36	12	87	—	—	120	2 to 1	3 Pc.
72	.109×	.105×	18	39	12	87	—	—	126	2 to 1	3 Pc.
78	.109×	.105×	18	42	12	87	—	—	132	1 1/2 to 1	3 Pc.
84	.109×	.105×	18	45	12	87	—	—	138	1 1/2 to 1	3 Pc.
90	.109×	.105×	18	37	12	87	—	—	144	1 1/2 to 1	3 Pc.
96	.109×	.105×	18	35	12	87	—	—	150	1 1/2 to 1	3 Pc.

× EXCEPT CENTER PANEL SEE GENERAL NOTES

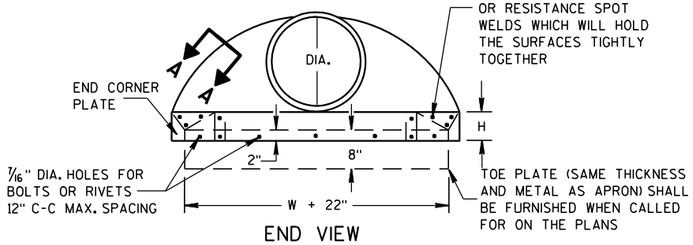
REINFORCED CONCRETE APRON ENDWALLS

PIPE DIA. (IN.)	DIMENSIONS (Inches) T	A	B	C	D	E	G	APPROX. SLOPE
12	2	4	24	48 7/8	72 1/8	24	2	3 to 1
15	2 1/4	6	27	46	73	30	2 1/4	3 to 1
18	2 1/2	9	27	46	73	36	2 1/2	3 to 1
21	2 3/4	9	36	37 1/2	73 1/2	42	2 3/4	3 to 1
24	3	9 1/2	43 1/2	30	73 1/2	48	3	3 to 1
27	3 1/4	10 1/2	49 1/2	24	73 1/2	54	3 1/4	3 to 1
30	3 1/2	12	54	19 3/4	73 1/2	60	3 1/2	3 to 1
36	4	15	63	34 3/4	97 3/4	72	4	3 to 1
42	4 1/2	21	63	35	98	78	4 1/2	3 to 1
48	5	24	72	26	98	84	5	3 to 1
54	5 1/2	27	65	* 33 1/4 - ** 35	* 98 1/4 - ** 100	90	5 1/2	2 2/5 to 1
60	6	* 30 - ** 35	60	39	99	96	5	2 to 1
66	6 1/2	* 24 - ** 30	* 72 - ** 78	* 21 - ** 27	99	102	5 1/2	2 to 1
72	7	* 24 - ** 36	78	21	99	108	6	2 to 1
78	7 1/2	* 24 - ** 36	78	21	99	114	6 1/2	2 to 1
84	8	36	90 1/2	21	111 1/2	120	6 1/2	1 1/2 to 1
90	8 1/2	41	87 1/2	24	111 1/2	132	6 1/2	1 1/2 to 1

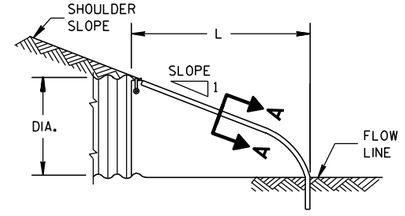
*MINIMUM
**MAXIMUM



PLAN VIEW

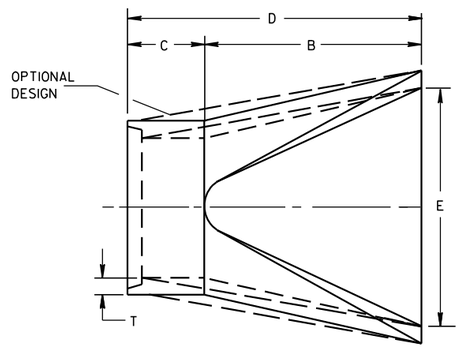


END VIEW

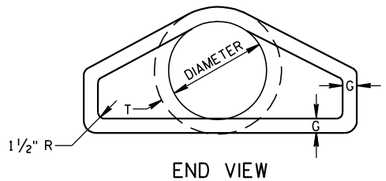


SIDE ELEVATION

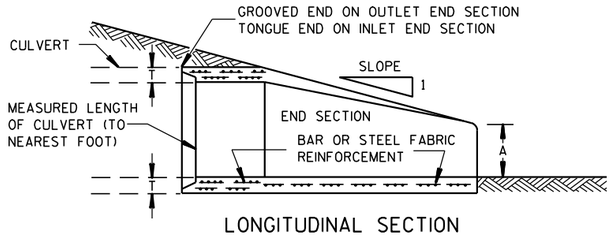
METAL ENDWALLS



PLAN

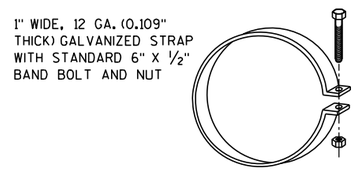


END VIEW



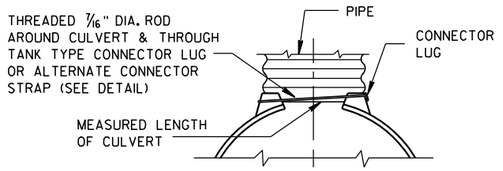
LONGITUDINAL SECTION

CONCRETE ENDWALLS

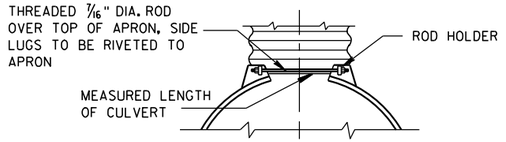


ALTERNATE FOR TYPE 1 CONNECTION

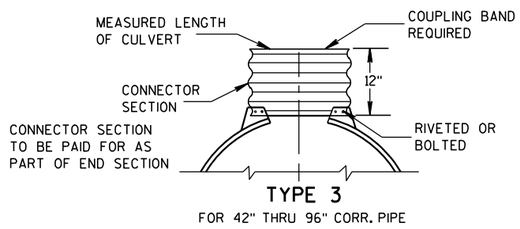
END SECTION CONNECTOR STRAP



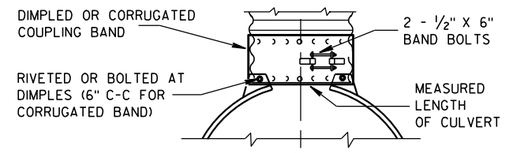
TYPE 1
FOR 12" THRU 24" CORR. PIPE



TYPE 2
FOR 30" THRU 96" CORR. PIPE



TYPE 3
FOR 42" THRU 96" CORR. PIPE



TYPE 5
ALTERNATE FOR:
ALL SIZES CORRUGATED CIRCULAR PIPE

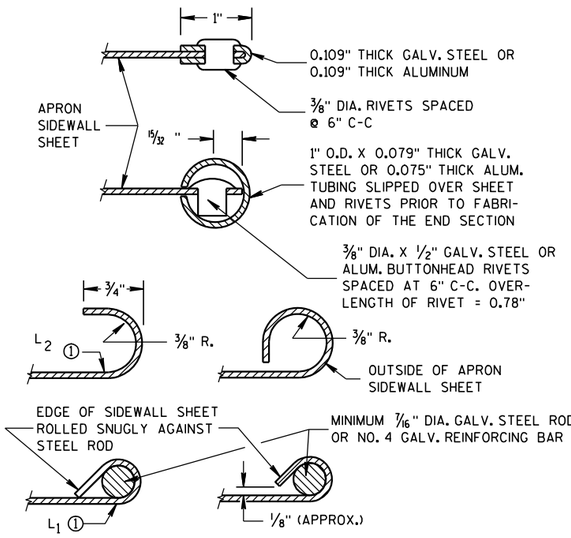
NOTE: DIMPLED BAND FITS OVER OUTSIDE OF ENDWALL. AND CORRUGATED BAND FITS INSIDE ENDWALL. DIMPLED BAND MAY BE USED WITH HELICALLY CORRUGATED PIPE.

FOR CIRCUMFERENTIALLY CORRUGATED PIPE USE ENDWALL CONNECTION DETAILS 1, 2, 3 OR 5 AS APPLICABLE.

FOR HELICALLY CORRUGATED PIPE USE ENDWALL CONNECTION DETAILS 1, 2 OR 5.

FOR HELICALLY CORRUGATED PIPES WITH TWO CIRCUMFERENTIAL CORRUGATIONS AT EACH END USE ENDWALL CONNECTION DETAILS 1, 2 OR 3.

CONNECTION DETAILS



SECTION A-A

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

CONCRETE CULVERT ENDWALLS MAY NOT BE USED WITH GALVANIZED STEEL OR ALUMINUM CULVERT PIPE OR VISE VERSA. GALVANIZED STEEL OR ALUMINUM ENDWALLS SHALL NORMALLY BE INSTALLED ON CULVERT PIPE OF THE SAME METAL.

ALL THREE PIECE STEEL APRON ENDWALLS FOR 60" DIAMETER PIPE AND LARGER SHALL HAVE 0.109" SIDES AND 0.138" CENTER PANELS. ALL THREE PIECE ALUMINUM APRON ENDWALLS FOR 60" DIAMETER PIPE AND LARGER SHALL HAVE 0.105" SIDES AND 0.134" CENTER PANELS. THE WIDTH OF CENTER PANELS SHALL BE GREATER THAN 20 PERCENT OF THE PIPE PERIMETER.

LAP SEAMS SHALL BE TIGHTLY JOINED BY GALVANIZED RIVETS OR BOLTS FOR STEEL UNITS AND ALUMINUM RIVETS AND BOLTS FOR ALUMINUM UNITS. FOR THE 60" THROUGH 96" DIAMETER APRON ENDWALL SIZES, THE REINFORCED EDGES AND CENTER PANEL SEAMS SHALL BE FURTHER REINFORCED WITH GALVANIZED STEEL OR ALUMINUM STIFFENER ANGLES. THE ANGLES SHALL BE ATTACHED BY GALVANIZED NUTS AND BOLTS FOR STEEL UNITS AND ALUMINUM NUTS AND BOLTS FOR ALUMINUM UNITS.

WHERE TWO OR MORE PIPES WITH APRON ENDWALLS ARE LAID ADJACENT TO EACH OTHER, THEY SHALL BE SEPARATED BY A DISTANCE SUFFICIENT TO PROVIDE A MINIMUM CLEARANCE OF 6 INCHES BETWEEN APRON ENDWALLS.

① FOR PIPE SIZES UP TO 60" DIAMETER, A 180° ROLLED EDGE MAY BE USED INSTEAD OF STEEL ROD REINFORCEMENT. SEE SECTION A-A.

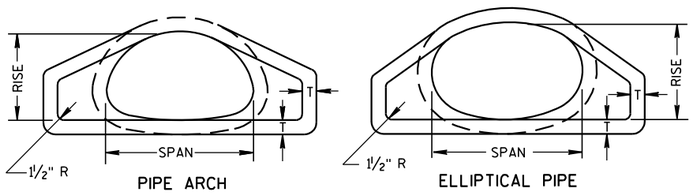
APRON ENDWALLS FOR CULVERT PIPE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

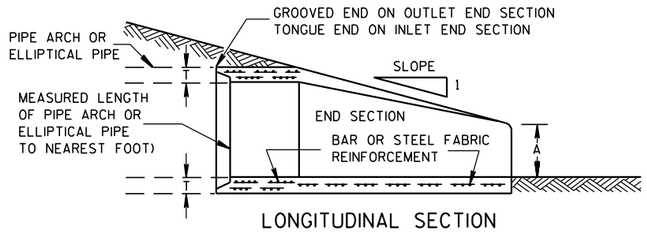
APPROVED
11/30/94 DATE
/S/ Rory L. Rhinesmith
CHIEF ROADWAY DEVELOP 277 NEER
FHWA

6

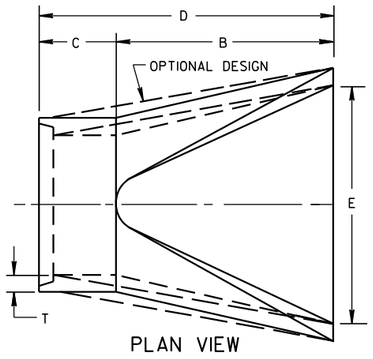
S.D.D. 8 F 1-11



END VIEW

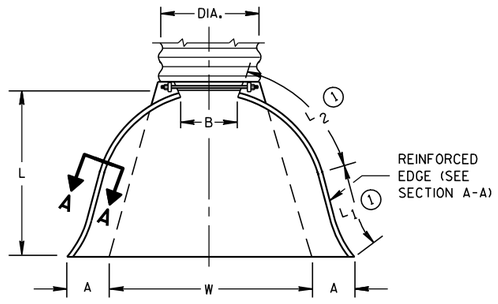


LONGITUDINAL SECTION

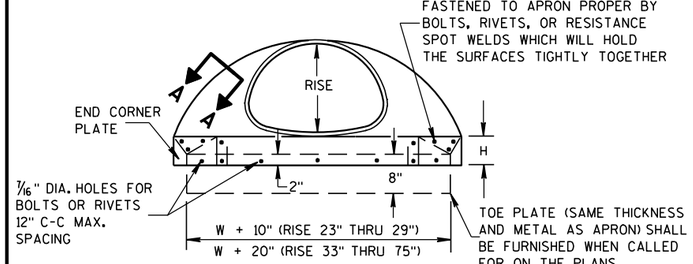


PLAN VIEW

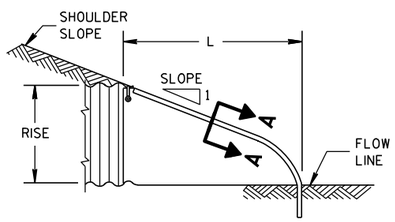
CONCRETE ENDWALLS



PLAN VIEW

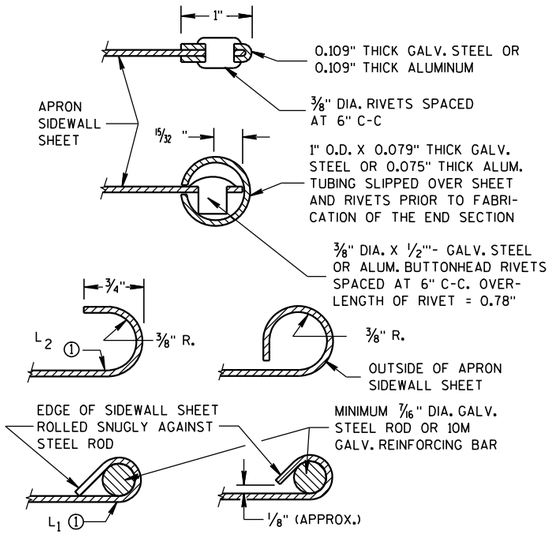


END VIEW



SIDE ELEVATION

METAL ENDWALLS



SECTION A-A

2- 2/3" X 1/2" CORRUGATIONS

EQUIV. DIA. (Inches)	(Inches) SPAN	(Inches) RISE	MIN. THICK. (Inches) STEEL	MIN. THICK. (Inches) ALUM.	DIMENSIONS (Inches) A (±1")	B (MAX.)	H (±1")	L (±1 1/2")	L1 ①	L2 ①	W (±2")	APPROX. SLOPE	BODY
15	17	13	.064	.060	7	9	6	19	14	16	30	2½ to 1	1 Pc.
18	21	15	.064	.060	7	10	6	23	14	19⅜	36	2½ to 1	1 Pc.
21	24	18	.064	.060	8	12	6	28	18	21¾	42	2½ to 1	1 Pc.
24	28	20	.064	.060	9	14	6	32	18	27½	48	2½ to 1	1 Pc.
30	35	24	.079	.075	10	16	6	39	18	37⅝	60	2½ to 1	1 Pc.
36	42	29	.079	.075	12	18	8	46	24	45⅜	75	2½ to 1	1 Pc.
42	49	33	.109	.105	13	21	9	53	24	54¾	85	2½ to 1	2 Pc.
48	57	38	.109	.105	18	26	12	63	24	68	90	2½ to 1	3 Pc.
54	64	43	.109	.105	18	30	12	70	24	72¾	102	2¼ to 1	3 Pc.
60	71	47	.109*	.105*	18	33	12	77	30	82¼	114	2¼ to 1	3 Pc.
66	77	52	.109*	.105*	18	36	12	77	—	—	126	2 to 1	3 Pc.
72	83	57	.109*	.105*	18	39	12	77	—	—	138	2 to 1	3 Pc.

3" X 1" CORRUGATIONS

EQUIV. DIA. (Inches)	(Inches) SPAN	(Inches) RISE	MIN. THICK. (Inches) STEEL	MIN. THICK. (Inches) ALUM.	DIMENSIONS (Inches) A (±1")	B (MAX.)	H (±1")	L (±1 1/2")	L1 ①	L2 ①	W (±2")	APPROX. SLOPE	BODY
48	53	41	.109	.105	18	26	12	63	24	72¾	90	2½ to 1	2 Pc.
54	60	46	.109	.105	18	30	12	70	30	82¼	102	2 to 1	2 Pc.
60	66	51	.109*	.105*	18	33	12	77	—	—	114	1½ to 1	3 Pc.
66	73	55	.109*	.105*	18	36	12	77	—	—	126	1½ to 1	3 Pc.
72	81	59	.109*	.105*	18	39	12	77	—	—	138	2 to 1	3 Pc.
78	87	63	.109*	.105*	22	38	12	77	—	—	148	1½ to 1	3 Pc.
84	95	67	.109*	.105*	22	34	12	77	—	—	162	1½ to 1	3 Pc.
90	103	71	.109*	.105*	22	38	12	77	—	—	174	1½ to 1	3 Pc.
96	112	75	.109*	.105*	24	40	12	77	—	—	174	1½ to 1	3 Pc.

NOTE: ALL SPLICES TO BE LAP RIVETED OR BOLTED.

* EXCEPT CENTER PANEL SEE GENERAL NOTES

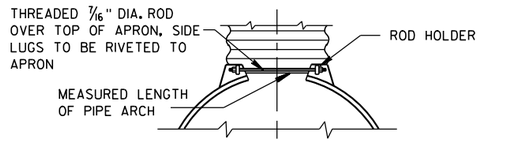
REINFORCED CONCRETE PIPE ARCH

EQUIV. DIA. (Inches)	DIMENSIONS (Inches) ** SPAN	** RISE	T	A	B	C	D	E	APPROX. SLOPE
24	29	18	3	8½	39	33	72	48	3 to 1
30	36	22	3½	9½	50	46	96	60	3 to 1
36	44	27	4	11⅛	60	36	96	72	3 to 1
42	51	31	4½	15 13/16	60	36	96	78	3 to 1
48	58	36	5	21	60	36	96	84	3 to 1
54	65	40	5½	25½	60	36	96	90	3 to 1
60	73	45	6	31	60	36	96	96	3 to 1
72	88	54	7	31	60	39	99	120	2 to 1
84	102	62	8	28½	83	19	102	144	2 to 1

REINFORCED CONCRETE ELLIPTICAL PIPE

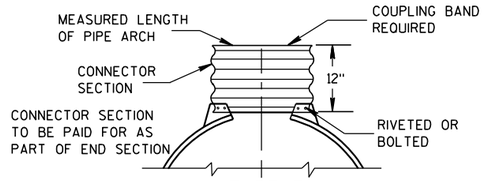
EQUIV. DIA. (Inches)	DIMENSIONS (Inches) ** SPAN	** RISE	T	A	B	C	D	E	APPROX. SLOPE
24	30	19	3¼	8½	39	33	72	48	3 to 1
30	38	24	3¾	9½	54	18	72	60	3 to 1
36	45	29	4½	11⅛	60	24	84	72	2½ to 1
42	53	34	5	15¾	60	36	96	78	2½ to 1
48	60	38	5½	21	60	36	96	84	2½ to 1
54	68	43	6	25½	60	36	96	90	2½ to 1
60	76	48	6½	30	60	36	96	96	2½ to 1

**NOMINAL SIZE



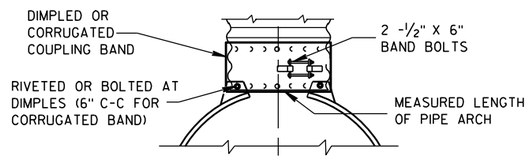
TYPE 2

FOR 17" X 13" THRU 112" X 75" PIPE ARCH



TYPE 3

FOR 64" X 43" THRU 112" X 75" PIPE ARCH



TYPE 5

ALTERNATE FOR:

ALL SIZES CORRUGATED PIPE ARCHES

NOTE: DIMPLED BAND FITS OVER OUTSIDE OF ENDWALL, AND CORRUGATED BAND FITS INSIDE ENDWALL.

CONNECTION DETAILS

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

CONCRETE APRON ENDWALLS MAY NOT BE USED WITH GALVANIZED STEEL OR ALUMINUM CULVERT PIPE OR VISE VERSA. GALVANIZED STEEL OR ALUMINUM APRON ENDWALLS SHALL NORMALLY BE INSTALLED ON CULVERT PIPE OF THE SAME METAL.

ALL THREE PIECE STEEL APRON ENDWALLS FOR 66" X 51" PIPE ARCH AND LARGER SHALL HAVE 0.109" SIDES AND 0.138" CENTER PANELS. ALL THREE PIECE ALUMINUM APRON ENDWALLS FOR 66" X 51" PIPE ARCH AND LARGER SHALL HAVE 0.105" SIDES AND 0.134" CENTER PANELS. THE WIDTH OF CENTER PANELS SHALL BE GREATER THAN 20 PERCENT OF THE PIPE ARCH PERIMETER.

LAP SEAMS SHALL BE TIGHTLY JOINED BY GALVANIZED RIVETS OR BOLTS FOR STEEL UNITS AND ALUMINUM RIVETS AND BOLTS FOR ALUMINUM UNITS. FOR THE 77" X 52" THROUGH 112" X 75" APRON ENDWALL SIZES, THE REINFORCED EDGES AND CENTER PANEL SEAMS SHALL BE FURTHER REINFORCED WITH GALVANIZED STEEL OR ALUMINUM STIFFENER ANGLES. THE ANGLES SHALL BE ATTACHED BY GALVANIZED NUTS AND BOLTS FOR STEEL UNITS AND ALUMINUM NUTS AND BOLTS FOR ALUMINUM UNITS.

WHERE TWO OR MORE PIPES WITH APRON ENDWALLS ARE LAID ADJACENT TO EACH OTHER, THEY SHALL BE SEPARATED BY A DISTANCE SUFFICIENT TO PROVIDE A MINIMUM CLEARANCE OF 6 INCHES BETWEEN APRON ENDWALLS.

① FOR PIPE ARCH SIZES UP TO 73" X 55" A 180° ROLLED EDGE MAY BE USED INSTEAD OF STEEL ROD REINFORCEMENT. SEE SECTION A-A.

APRON ENDWALLS FOR PIPE ARCH AND ELLIPTICAL PIPE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

11/30/94 — DATE

/S/ Rory L. Rhinesmith — CHIEF ROADWAY DEVELOPMENT ENGINEER

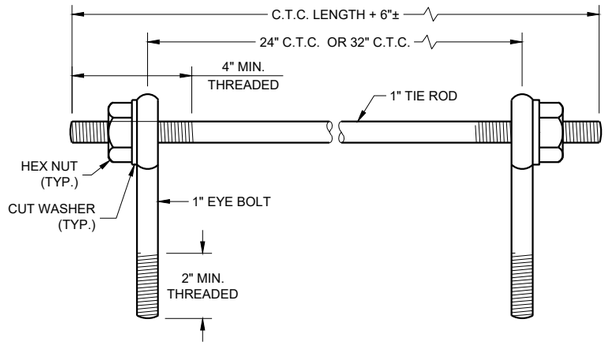
FHWA

6

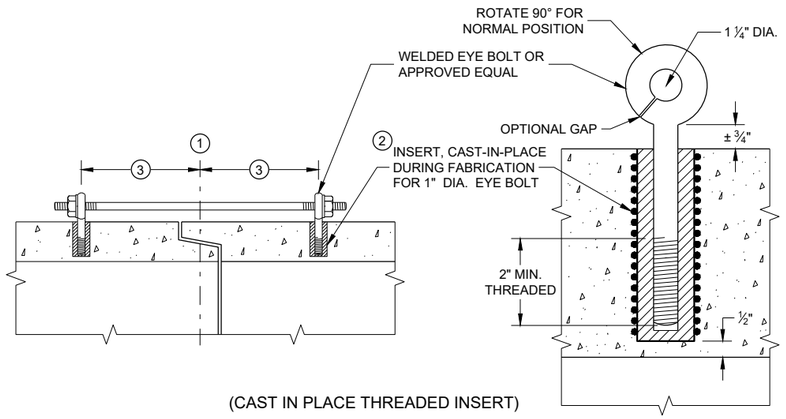
S.D.D. 8 F 2-1

6

S.D.D. 8 F 2-1



EYE BOLTS AND TIE ROD



(CAST IN PLACE THREADED INSERT)

LONGITUDINAL SECTIONS

EYE BOLT AND TIE ROD ASSEMBLY (ALTERNATE NO. 1)

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS, AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

CONCRETE CULVERT AND STORM SEWER PIPE SHALL BE TIED TOGETHER IN THE MANNER ILLUSTRATED BY THIS DETAIL AT LOCATIONS DESIGNATED IN THE STANDARD SPECIFICATIONS AND THE PLAN. THE CONTRACTOR MAY USE EITHER ALTERNATE 1, 2 OR 3 FOR DRAINAGE STRUCTURES. ONLY ALTERNATE 1 AND 3 MAY BE USED FOR CATTLE PASSES, UNLESS OTHERWISE STATED IN THE CONTRACT. THE MATERIALS, FABRICATION AND WORK NECESSARY TO TIE THE PIPE BY THIS DETAIL WILL BE CONSIDERED INCIDENTAL TO THE PIPE AND APRON ENDWALLS IF REQUIRED.

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR JOINT TIES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL.

JOINT TIES TO BE HOT-DIP GALVANIZED PER ASTM A 153.

(1) CENTER LINE OF TONGUE AND GROOVE OR BELL AND SPIGOT JOINTS.

(2) THE INSIDE OF THE THREADED INSERTS SHALL BE CLEAN TO ALLOW THE INSERTION OF THREADED EYE BOLTS.

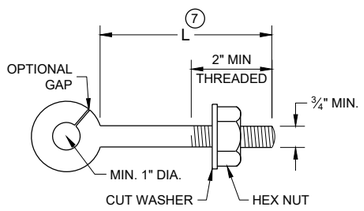
(3) HOLES SHALL BE CAST-IN-PLACE OR DRILLED PER THE APPLICABLE DETAIL, AND EQUAL DISTANCE FROM THE CENTERLINE OF THE JOINT.

(4) BOLT PROJECTION INSIDE OF PIPE SHALL NOT EXCEED 2 INCHES.

(5) OPENING TO BE ROD DIAMETER PLUS 1 INCH.

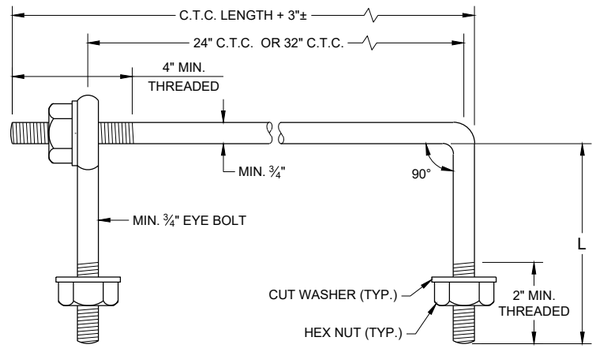
(6) LENGTH ADEQUATE TO EXTEND TO WITHIN ½ INCH OF THE INNER SURFACE OF THE PIPE.

(7) EYE BOLT LENGTH DETERMINED BY WALL THICKNESS, BELL THICKNESS AND BOLT PROJECTION INSIDE PIPE.

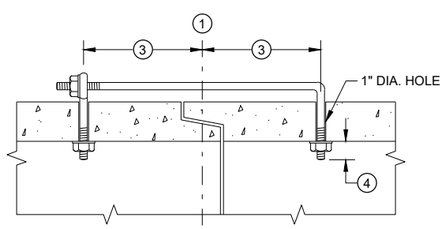


EYE BOLT (7)

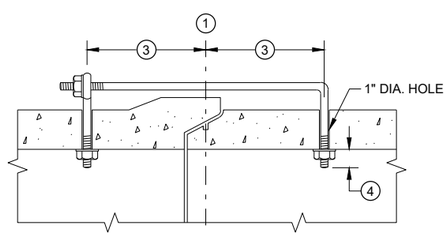
NOTE: TWO EYE BOLTS MAY BE USED WITH A 30" OR 38" LONG THREADED ROD IN LIEU OF THE 90° BENT TIE ROD.



EYE BOLT AND TIE ROD



(TONGUE AND GROOVE PIPE)



(MODIFIED BELL PIPE)

LONGITUDINAL SECTION

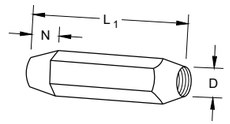
(JOINT TIES FOR 18" TO 66" DIA. CONCRETE PIPE)

EYE BOLT AND TIE ROD ASSEMBLY (ALTERNATE NO. 2)

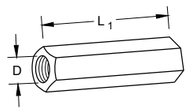
ADJUSTABLE TIE ROD TABLE

PIPE DIAMETER	TIE ROD DIAMETER	D	L_1	N
12 - 60	⅝	⅝	5	½
66 - 84	¾	¾	5	½
90 - 144	1	1	7	1 7/16

DIMENSIONS SHOWN ARE IN INCHES



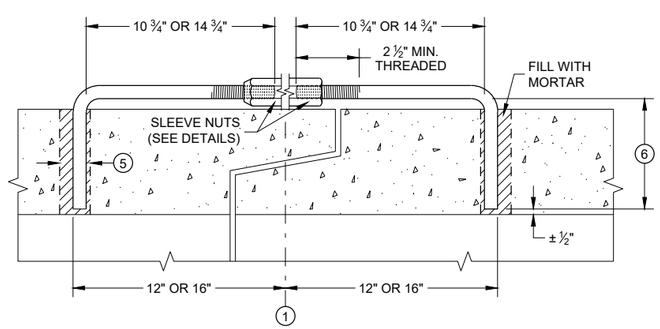
TAPERED



PLAIN

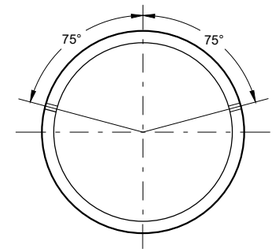
RIGHT AND LEFT THREADS

SLEEVE NUTS



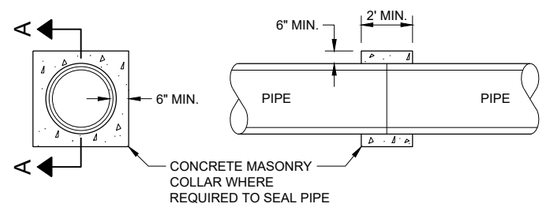
LONGITUDINAL SECTION

ADJUSTABLE TIE ROD (ALTERNATE NO. 3)



PLACEMENT OF (2) CAST-IN-PLACE INSERTS OR HOLES DURING FABRICATION FOR PIPE SECTIONS REQUIRING TIE RODS

TRANSVERSE SECTION



SECTION A - A

CONCRETE COLLAR DETAIL

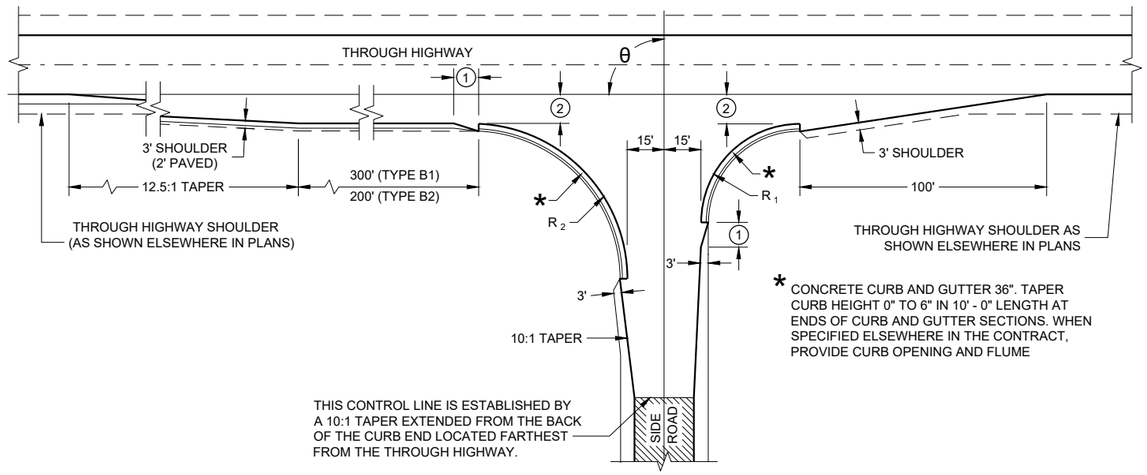
JOINT TIES FOR CONCRETE PIPE AND CONCRETE COLLAR DETAIL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2021 — DATE
/S/ Rodney Taylor — ROADWAY STANDARDS DEVE ENGINEER
FHWA

SDD 08F04 - 08

SDD 08F04 - 08



* CONCRETE CURB AND GUTTER 36". TAPER CURB HEIGHT 0" TO 6" IN 10' - 0" LENGTH AT ENDS OF CURB AND GUTTER SECTIONS. WHEN SPECIFIED ELSEWHERE IN THE CONTRACT, PROVIDE CURB OPENING AND FLUME

TYPE "B1" AND "B2"

RADII DIMENSIONS FOR TYPES "B1", "B2", "C" AND "D" INTERSECTIONS

θ	R_1	R_2
65 - 70	35	70
71 - 80	40	70
81 - 90	40	60
91 - 100	50	55
101 - 110	60	45

GENERAL NOTES

DESIGNS MAY BE USED INTERCHANGEABLY IN COMBINATION OR SEPARATELY FOR ANY ONE COMPLETE INTERSECTION DEPENDING UPON INTERSECTION ANGLE AND SURFACING OF EACH APPROACH ROADWAY.

SIDE ROAD SURFACING NOTE

WHEN THE SIDE ROAD IS NOT PRESENTLY PAVED, PAVEMENT SHALL BE PLACED TO THE LIMITS SHOWN UNLESS OTHERWISE PROVIDED IN THE CONTRACT. WHERE THE CONSTRUCTION LIMITS ARE BEYOND THE PAVING LIMITS, CRUSHED AGGREGATE SURFACING SHALL BE PLACED BETWEEN THE PAVING LIMITS AND CONSTRUCTION LIMITS.

WHEN THE SIDE ROAD IS PRESENTLY PAVED, NEW PAVEMENT SHALL BE PLACED TO THE LIMITS OF DESIGN AS SHOWN AND BEYOND, IF NECESSARY, TO MEET EXISTING PAVEMENT.

WHEN THE SIDE ROAD IS THE CONSTRUCTION PROJECT, THE INTERSECTION SURFACING SHALL BE THE SAME AS FOR THE PROJECT.

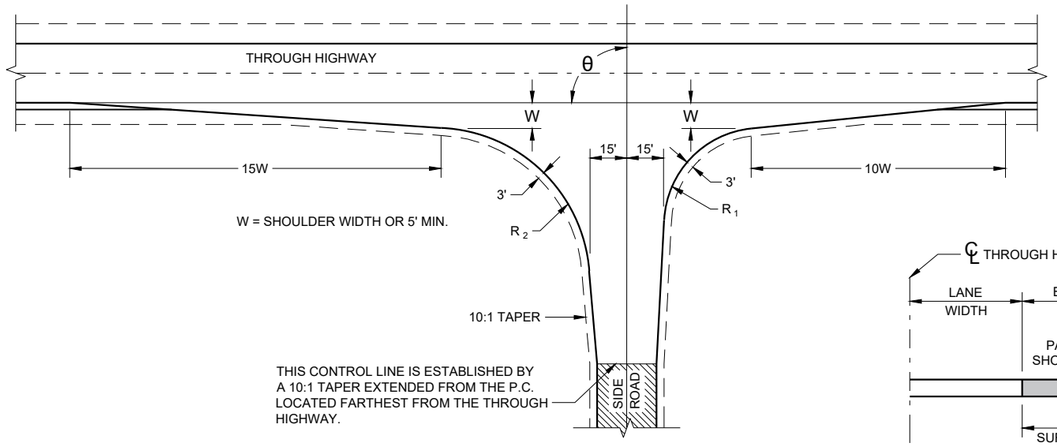
(1) 10-FT TYPICAL.

(2) 12-FT** PLUS ADDITIONAL WIDTH FOR BIKE LANE IF SHOWN ELSEWHERE IN THE PLAN.

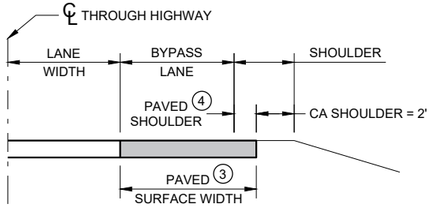
**10-FT MAY BE USED ON TYPE B2 ON RESURFACING PROJECTS IF SPECIFIED IN THE CONTRACT.

(3) BYPASS LANE PAVED SURFACE WIDTH OUTSIDE OF TRAVEL LANE
- ASPHALT = 12-FT PLUS PAVED SHOULDER WIDTH
- PC CONCRETE = 13-FT PLUS PAVED SHOULDER WIDTH

(4) BYPASS LANE PAVED SHOULDER WIDTH = THE GREATER OF 1-FT OR THE PAVED SHOULDER WIDTH OF THE THROUGH HIGHWAY.

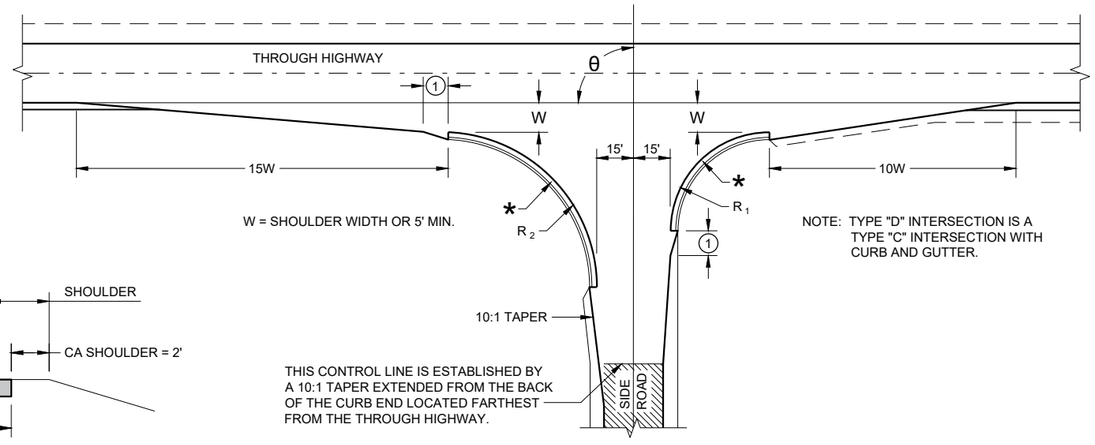


TYPE "C"



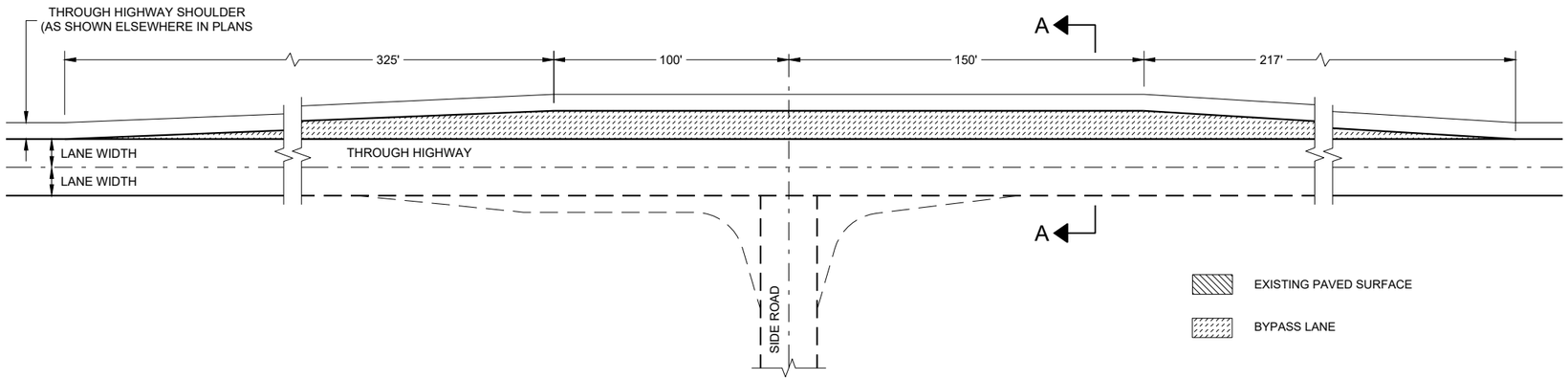
SECTION A - A

(SHOWING BYPASS LANE AND SHOULDER)



NOTE: TYPE "D" INTERSECTION IS A TYPE "C" INTERSECTION WITH CURB AND GUTTER.

TYPE "D"



TEE INTERSECTION BYPASS LANE DETAIL

AT GRADE SIDE ROAD INTERSECTION TYPES "B1", "B2", "C", "D" AND TEE INTERSECTION BYPASS LANE

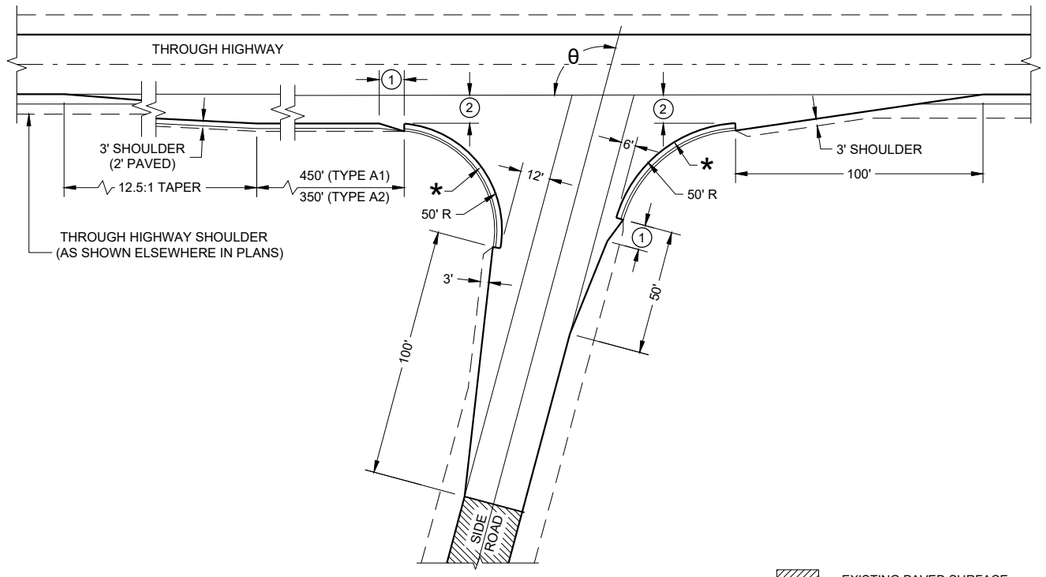
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

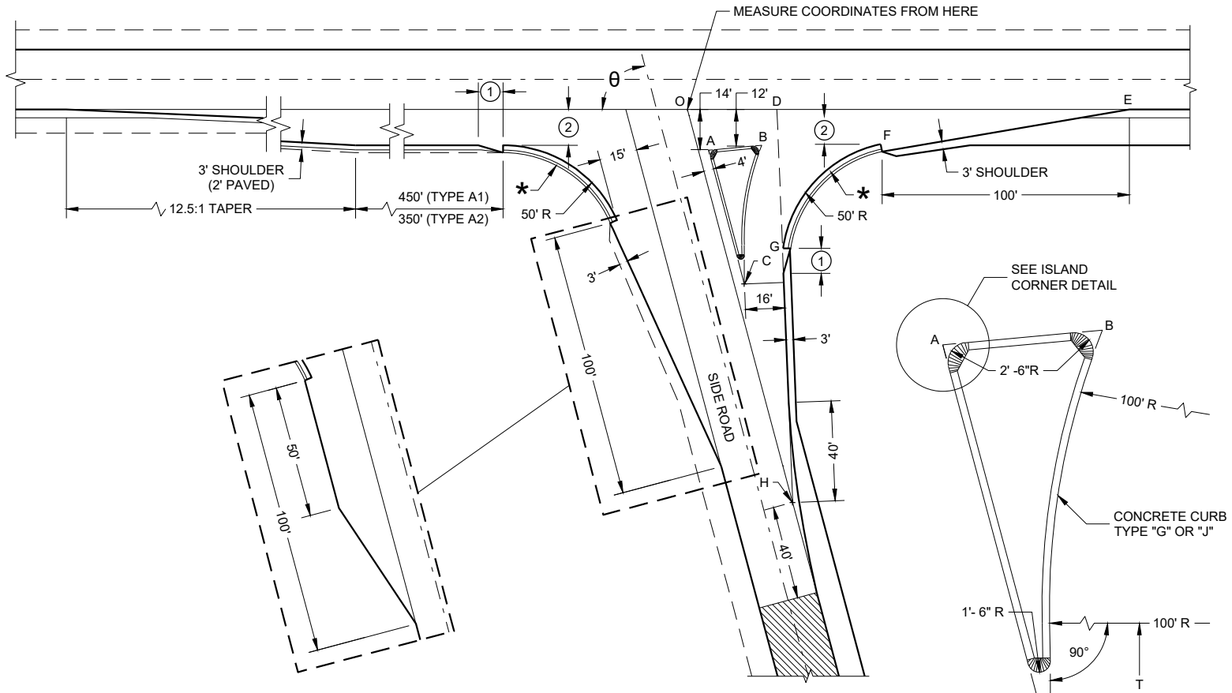
SDD 09A01 - 14a

6

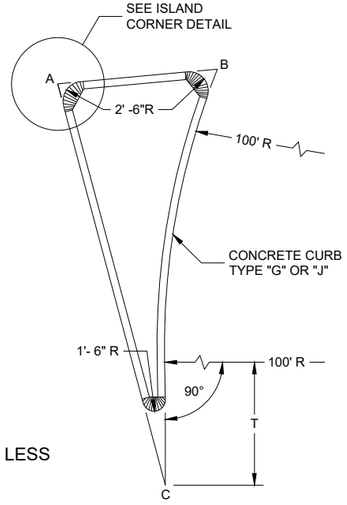
SDD 09A01 - 14a



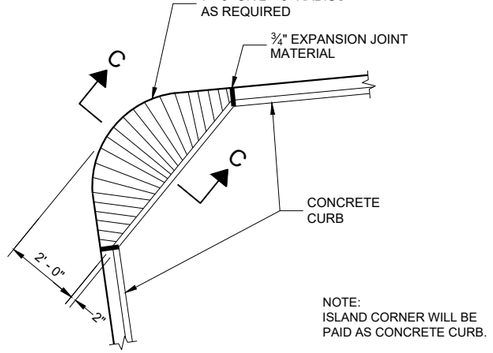
θ = MORE THAN 80°



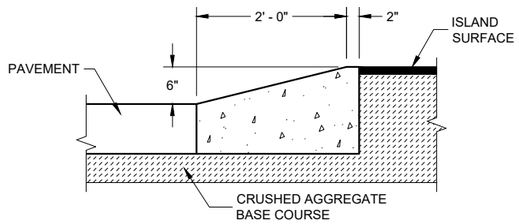
SIDE ROAD WIDENING AND TAPER REQUIRED WHERE
THE THROUGH HIGHWAY CARRIES TWO-WAY TRAFFIC
θ = ACUTE ANGLES 70° OR LESS



θ = ACUTE ANGLES 80° OR LESS



PLAN VIEW



SECTION C - C

ISLAND CORNER DETAIL

(TO BE CONSTUCTED AT ALL ISLAND CORNERS)

TABLE OF DIMENSIONS FOR VARIABLE SIDE ROAD INTERSECTION ANGLES

(INTERPOLATE VALUES FOR ANGLES NOT SHOWN)

ANGLE θ DEGREES	COORDINATES IN FEET (MEASURED FROM POINT 'O') X / Y								LENGTH IN FEET				
	A	B	C	D	E	F	G	H	AB	AC	T	OJ	OH
60	12.7 / -14.0	44.9 / -12.0	46.4 / -72.4	41.9 / 0.0	205.0 / 0.0	104.6 / -12.0	64.0 / -75.5	85.0 / -147.1	32.3	67.4	4.9	85.9	169.9
65	10.9 / -14.0	39.0 / -12.0	37.8 / -71.6	39.4 / 0.0	196.1 / 0.0	95.7 / -12.0	54.1 / -71.5	70.5 / -151.3	28.2	63.6	8.5	80.9	166.9
70	9.4 / -14.0	33.9 / -12.0	29.8 / -70.1	37.4 / 0.0	188.3 / 0.0	87.8 / -12.0	45.6 / -67.5	56.1 / -154.2	24.6	59.7	11.5	76.1	164.1
75	7.9 / -14.0	29.3 / -12.0	22.3 / -67.9	35.7 / 0.0	181.2 / 0.0	80.7 / -12.0	38.2 / -63.4	41.8 / -155.9	21.5	55.8	13.8	71.4	161.4
80	6.5 / -14.0	25.4 / -12.0	15.6 / -65.2	34.4 / 0.0	174.8 / 0.0	74.4 / -12.0	31.8 / -59.3	27.6 / -156.5	18.9	52.0	15.6	66.9	158.9

TYPE 'A1" AND "A2" SIDE ROAD INTERSECTION DETAILS

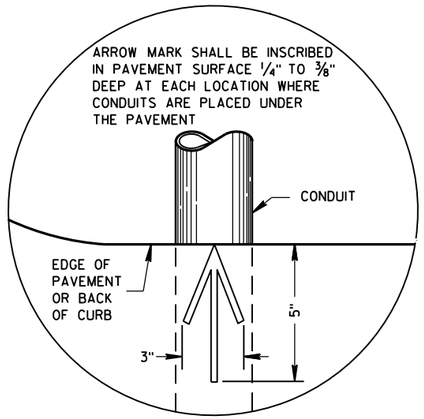
AT GRADE SIDE ROAD INTERSECTIONS
TYPES "A1" AND "A2"

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2022 — DATE
/S/ John Jenkins — ROADWAY STANDARDS DEVE ENGINEER
FHWA

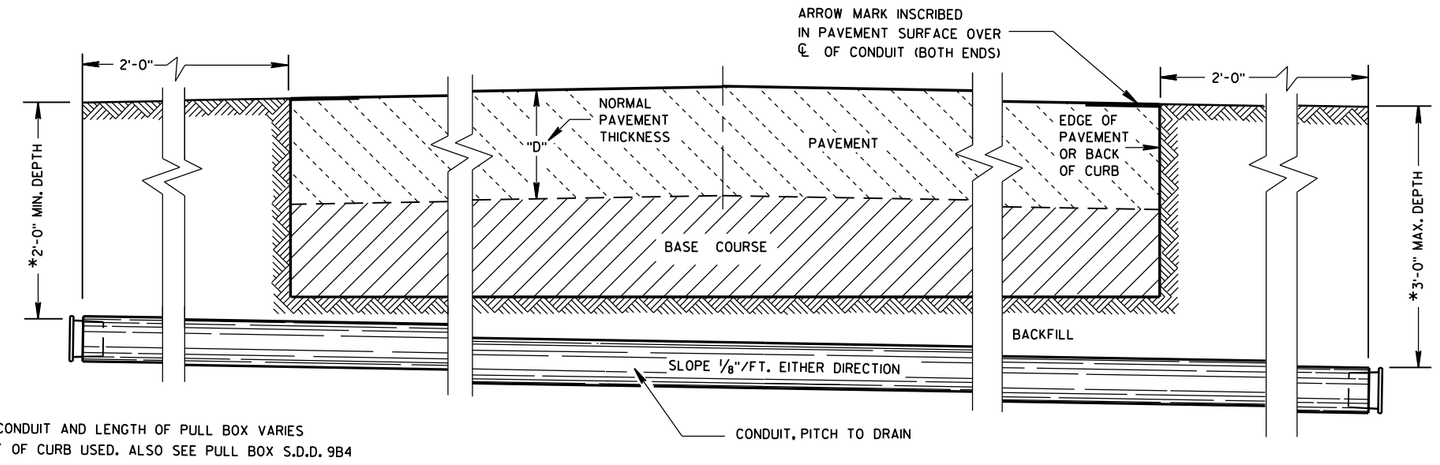
6

SDD 09A01 - 14b



PLAN VIEW

ARROW MARK



*DEPTH OF CONDUIT AND LENGTH OF PULL BOX VARIES WITH HEIGHT OF CURB USED. ALSO SEE PULL BOX S.D.D. 9B4

SIDE ELEVATION

DETAIL FOR CONDUIT UNDER PAVED HIGHWAYS

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

METALLIC (STANDARD SPECIFICATION 652.2.2) OR NONMETALLIC (STANDARD SPECIFICATION 652.2.3) CONDUIT SHALL BE FURNISHED AND PLACED AS SHOWN.

DEPTH OF CONDUIT INSTALLED BELOW THE TRAVELED WAY SHALL BE 24 INCHES MINIMUM AND 36 INCHES MAXIMUM.

DEPTH OF CONDUIT INSTALLED THAT IS NOT BELOW THE TRAVELED WAY SHALL BE 18 INCHES MINIMUM AND 36 INCHES MAXIMUM.

ANY EXCEPTION TO THE MAXIMUM DEPTH SHALL BE ONLY WITH THE WRITTEN APPROVAL OF THE ENGINEER.

THE TRENCH SHALL NOT BE BACKFILLED PRIOR TO INSPECTION OF THE CONDUIT.

ALL METALLIC CONDUIT RACEWAY ENDS SHALL BE REAMED AND THREADED.

ALL METALLIC CONDUIT IN WHICH WIRE OR CABLE IS TO BE INSTALLED SHALL BE BUSHED WITH APPROVED THREADED BUSHINGS BEFORE INSTALLATION OF THE WIRE OR CABLE.

ALL METALLIC CONDUITS IN WHICH WIRE OR CABLE IS NOT TO BE INSTALLED SHALL BE CAPPED WITH THREADED PROTECTIVE CAPS, AS APPROVED BY THE ENGINEER.

ALL NONMETALLIC CONDUIT SHALL BE CAPPED OR PLUGGED IMMEDIATELY AFTER INSTALLATION AND SHALL REMAIN CAPPED OR PLUGGED UNTIL WIRE/CABLES ARE INSTALLED.

NONMETALLIC CONDUITS IN WHICH WIRE OR CABLE IS NOT BEING INSTALLED SHALL REMAIN CAPPED OR PLUGGED.

BENDING OF PVC ELECTRICAL CONDUIT SHALL BE ACCOMPLISHED BY USING A BLANKET OR EMERSION TYPE TANK DESIGNED FOR THE PURPOSE OF BENDING PVC ELECTRICAL CONDUIT.

ALL CUT ENDS SHALL BE TRIMMED INSIDE AND OUTSIDE TO REMOVE ALL ROUGH EDGES ON NONMETALLIC CONDUIT. (SEE NEC 347.5)

WHEN REQUIRED TO CONNECT NONMETALLIC CONDUIT TO METALLIC CONDUIT, ONLY U.L. LISTED ADAPTER FITTINGS SHALL BE USED.

PRIOR TO CONDUIT ACCEPTANCE, CONDUIT CAPS OR PLUGS SHALL BE REMOVED, AND THE CAPS, PLUGS AND CONDUIT ENDS SHALL BE THOROUGHLY CLEANED AND THEN THE CAPS OR PLUGS REINSTALLED TO ENSURE THAT THE CAPS OR PLUGS CAN BE EASILY REMOVED IN THE FUTURE.

ALL CONDUIT BEING FURNISHED AND INSTALLED SHALL HAVE THE U.L. LABEL FIRMLY ATTACHED.

CONDUIT RUNS SHALL BE THE SAME SIZE OF CONDUIT FROM ONE END TO THE OTHER (FROM PULL BOX TO PULL BOX-OR-JUNCTION BOX TO JUNCTION BOX-OR-BASE TO BASE, ETC.).

TRACER WIRE SHALL BE INSTALLED AS STATED IN THE STANDARD SPECIFICATION, ITEM 652.3.1.1.

ALL CONDUIT RUNS SHALL BE STRAIGHT (WITHOUT BENDS) FROM PULL BOX TO PULL BOX, PULL BOX TO BASE AND BASE TO BASE AS SHOWN ON THE PLANS.

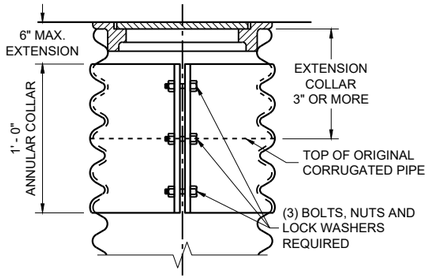
CONDUIT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

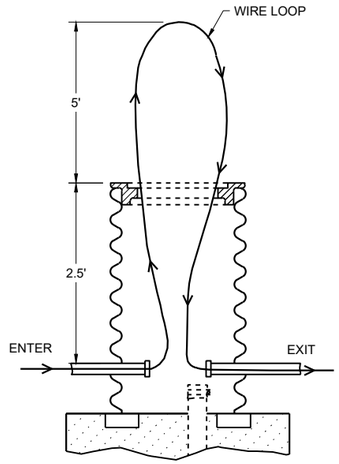
APPROVED
March, 2017 — DATE
/S/ Ahmet Demirbilek — STATE ELECTRICAL
FHWA

6

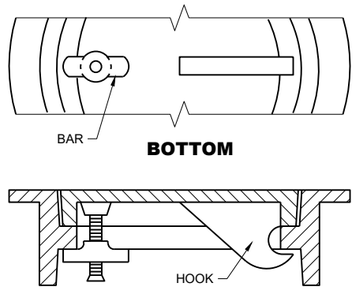
S.D.D. 9 B 2-10



CORRUGATED PIPE EXTENDER



MEASUREMENT DETAIL FOR WIRE/CABLE IN THE PULL BOX



BOTTOM

SECTION

ALTERNATE COVER (LOCKING)

TIGHTENING BAR TYPE

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

ALL FRAMES AND COVERS SHALL BE HEAVY DUTY TYPE, SUITABLE FOR VEHICULAR TRAFFIC LOADS.

PULL BOXES LOCATED IN THE ROADWAYS SHALL HAVE LOCKING COVERS.

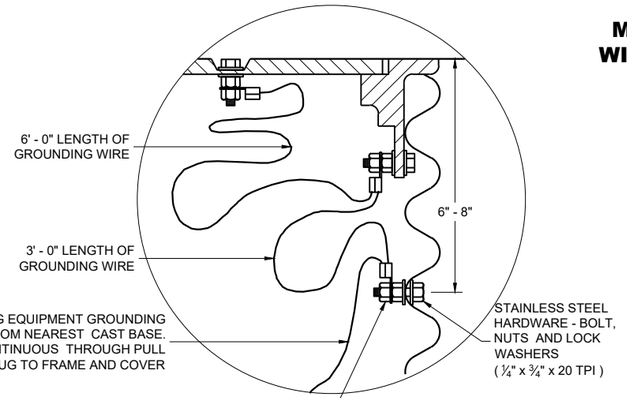
ENTRANCE HOLES INTO PULL BOXES SHALL BE CUT WITH A CIRCULAR HOLE SAW OR HYDRAULIC CONDUIT PUNCH. HOLE SIZE SHALL BE THE OUTSIDE DIAMETER OF THE CONDUIT THAT IS TO FIT IN THE OPENING PLUS NO MORE THAN ¼".

THE CONTRACTOR SHALL NOT INSTALL WIRE IN ANY PULL BOX UNTIL ITS INSTALLATION HAS BEEN INSPECTED AND ACCEPTED BY THE ENGINEER.

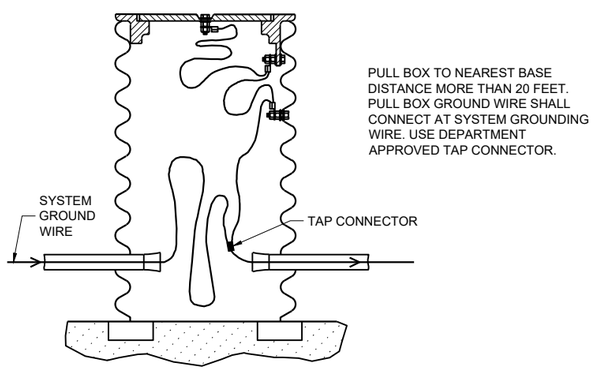
GROUNDING LUGS (MECHANICAL CONNECTORS) SHALL BE U.L. LISTED AND APPROVED FOR USE WITH COPPER WIRE.

ALL METALLIC CONDUIT IN WHICH WIRE AND/OR CABLE IS TO BE INSTALLED, SHALL BE BUSHED BEFORE INSTALLATION OF THE WIRE AND/OR CABLE.

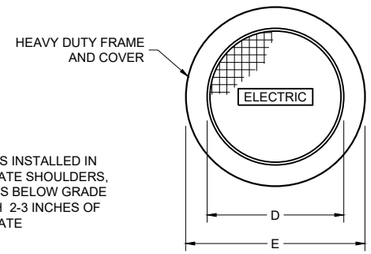
WHEN PULL BOXES ARE INSTALLED FOR FUTURE USE, DO NOT INSTALL THE EQUIPMENT GROUNDING LUG. THE EQUIPMENT GROUNDING LUG, THE EQUIPMENT GROUNDING ELECTRODE AND THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE REQUIRED AND INSTALLED UNDER A FUTURE WIRING CONTRACT.



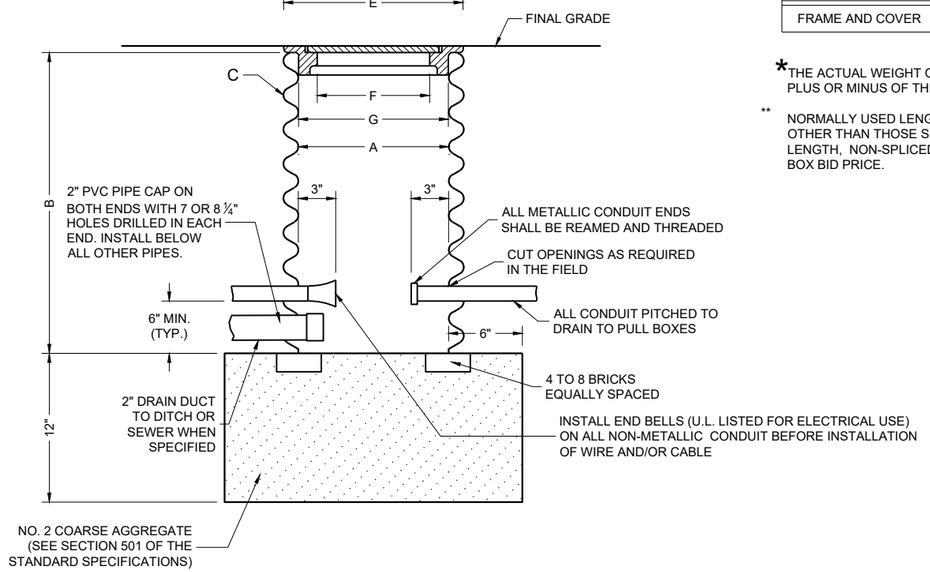
EQUIPMENT GROUNDING LUG AND LOCATION IN STEEL PULL BOXES



EQUIPMENT GROUNDING LUG AND LOCATION IN STEEL PULL BOXES



WHEN A PULL BOX IS INSTALLED IN CRUSHED AGGREGATE SHOULDERS, PLACE IT 2-3 INCHES BELOW GRADE AND COVER IT WITH 2-3 INCHES OF CRUSHED AGGREGATE



PULL BOX

TABLE OF NOMINAL DIMENSIONS AND WEIGHTS

DIMENSION IN INCHES		CORRUGATED STEEL PIPE								
PIPE DIAMETER (INSIDE)	A	12	12	12	18	18	18	24	24	24
PIPE LENGTH **	B	24	30	36	24	30	36	36	42	48
WALL THICKNESS	C	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.064
COVER	D	10 ¼	10 ¼	10 ¼	16 ¼	16 ¼	16 ¼	22 ¼	22 ¼	22 ¼
FRAME	E	14 ½	14 ½	14 ½	20 ½	20 ½	20 ½	26 ½	26 ½	26 ½
FRAME	F	8 ½	8 ½	8 ½	14 ½	14 ½	14 ½	20 ½	20 ½	20 ½
FRAME	G	11 ½	11 ½	11 ½	17 ½	17 ½	17 ½	23 ½	23 ½	23 ½
WEIGHT IN POUNDS*										
FRAME AND COVER		60	60	60	110	110	110	155	155	155

*THE ACTUAL WEIGHT OF THE MANHOLE FRAME AND COVER MAY VARY WITHIN 5 PERCENT PLUS OR MINUS OF THE WEIGHTS SHOWN.

** NORMALLY USED LENGTHS. THE PROJECT ENGINEER SHALL DETERMINE IF PIPE LENGTHS, OTHER THAN THOSE SPECIFIED, SHALL BE USED, TO A MAXIMUM OF 48" (CONTINUOUS LENGTH, NON-SPLICED). THE ADDITIONAL LENGTH SHALL BE INCIDENTAL TO THE PULL BOX BID PRICE.

PULL BOX

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2024
DATE

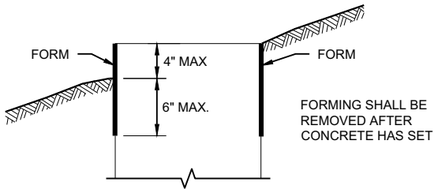
/S/ Ahmet Demirbilek
STATE ELECTRICAL ENGINEER

FHWA

6

SDD 09B04-13

FORM DEPTH SHALL BE NO MORE THAN 6" BELOW GRADE ON THE LOWER SIDE OF BASE



FORMING DETAIL

QUANTITY REQUIREMENTS	CONCRETE BASE TYPE		
	1	2	5 & 6
APPROX. CUBIC YARDS OF CONCRETE	0.40	0.57	0.40
LBS. OF HOOP BAR STEEL	NONE	23	16
LBS. OF VERTICAL BAR STEEL	NONE	60	18

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWINGSHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

BASES SHALL BE EXCAVATED BY USE OF A CIRCULAR AUGER.

TOP SURFACES OF CONCRETE BASES SHALL BE TROWEL FINISHED SMOOTH AND LEVEL.

CONDUIT SIZES AND LOCATIONS SHALL BE SHOWN ON THE PLANS

THE FINAL OR TERMINATING CONCRETE BASE IN A CONDUIT RUN SHALL HAVE A 6" EXIT STUB INSTALLED FOR FUTURE CABLING USE. THE EXIT STUB SHALL BE SIZED AS USED THROUGHOUT THE CONDUIT RUN AS SHOWN A THE ENTRANCE OF THE BASE.

ENDS OF CONDUIT INSTALLED BELOW GRADE FRO FUTURE USE SHALL BE CAPPED IF METALLIC OR PLUGGED IF NON-METALLIC.

MINIMUM BENDING RADIUS OF CONDUIT IS EQUAL TO 6X THE DIAMETER.

CONDUIT HEIGHT ABOVE CONCRETE BASES SHALL BE 1 INCH. ALL METALLIC CONDUIT ENDS SHALL BE REAMED AND THREADED.

ALL CONDUIT ENDS AT THE TOP OF CONCRETE BASES SHALL BE CAPPED IF METALLIC OR PLUGGED IF NON-METALLIC IMMEDIATELY AFTER PLACEMENT AND BEFORE CONCRETE IS POURED. CONDUITS IN WHICH WIRE OR CABLE IS NOT INSTALLED SHALL REMAIN CAPPED OR PLUGGED.

BELL ENDS SHALL BE INSTALLED ON ALL PVC CONDUIT EXPOSED AT THE TOP OF CONCRETE BASES BEFORE INSTALLATION.

WHEN REQUIRED TO CONNECT NON-METALLIC CONDUIT TO METALLIC CONDUIT, ONLY ADAPTER FITTINGS, U.L. LISTED FOR ELECTRICAL USE, SHALL BE USED.

IF A BASE REQUIRES A DEEP FORM BECAUSE OF LOOSE DIRT OR FILL, THE FORM SHALL BE REMOVED BEFORE BACKFILLING AROUND THE BASE. BACKFILL SHALL BE TAMPED TIGHT AGAINST THE BARE CONCRETE BASE IN LAYERS OF 1 FOOT OR LESS.

A NO. 4 AWG STRANDED COPPER EQUIPMENT GROUNDING CONDUCTOR SHALL BE EXOTHERMICALLY WELDED TO THE EQUIPMENT GROUNDING ELECTRODE (GROUND ROD) FOR TYPE 2, TYPE 5 AND TYPE 6 BASES.

THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE FURNISHED AND INSTALLED TO ENTER ALL BASE TYPES THROUGH A 1 INCH CONDUIT INSTALLED FOR GROUNDING PURPOSES, LEAVING A 4 FOOT COIL OF WIRE ABOVE THE CONCRETE BASE. THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE NEATLY COILED AND THE COILS TIED TOGETHER.

ANCHOR RODS SHALL BE THREADED 12" IN LENGTH ON EACH END OF THE ROD. ANCHOR RODS SHALL BE MANUFACTURED IN ACCORDANCE WITH SECTION 654.2.1 OF THE STANDARD SPECIFICATIONS.

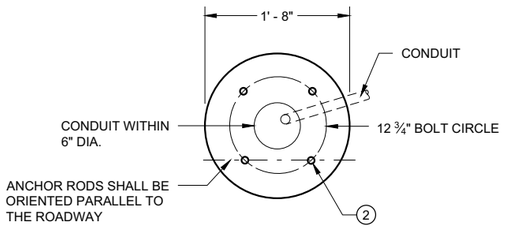
WASHERS AND LOCK WASHERS ARE REQUIRED ON ALL ANCHOR RODS.

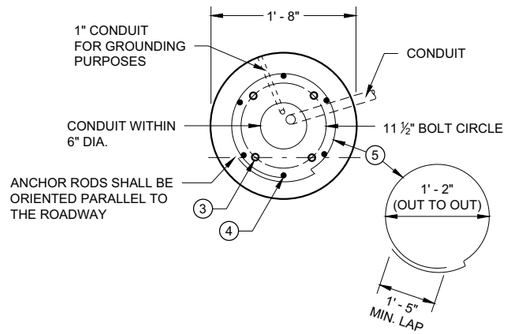
WHEN ANCHOR RODS USING THE ALTERNATE "L" BEND ARE FURNISHED, THE 4 INCH"L" BEND SHALL BE IN ADDITION TO THE SPECIFIED ANCHOR ROD BAR LENGTH. THE "L" BEND SHALL NOT BE THREADED.

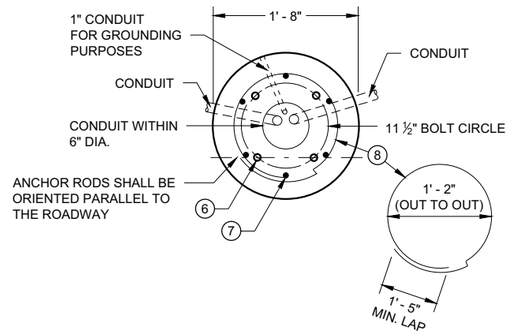
ANCHOR RODS SHALL BE INSTALLED WITH MISALIGNMENTS OF LESS THAN 1:40 FROM VERTICAL.

WELDING OF THE ANCHOR RODS TO THE CAGE IS UNACCEPTABLE. TIE WIRES SHALL BE USED.

BAR STEEL REINFORCEMENT SHALL BE COATED WITH POWDERED EPOXY RESIN IN ACCORDANCE WITH SECTION 505 OF THE STANDARD SPECIFICATIONS (LATEST EDITION).







1 THE MINIMUM DEPTH OF CONDUIT EXITING THE CONCRETE BASE AND INSTALLED BELOW THE TRAVELED WAY SHALL BE 24 INCHES. THE MINIMUM DEPTH OF CONDUIT EXITING THE CONCRETE BASE THAT IS NOT INSTALLED BELOW THE TRAVELED WAY SHALL BE 18 INCHES. THE MAXIMUM DEPTH OF ALL CONDUIT SHALL BE 36 INCHES EXCEPT WITH WRITTEN APPROVAL OF THE ENGINEER.

2 (4) 1" DIA. X 3' - 6" ANCHOR RODS.

3 (4) 1" DIA. X 5' - 0" ANCHOR RODS.

4 (6) NO. 6 X 6' - 8" BAR STEEL REINFORCEMENT.

5 (7) NO. 4 X 5' - 1" BAR STEEL REINFORCEMENT @ 1' - 0" C - C.

6 (4) 1" DIA. X 3' - 6" ANCHOR RODS.

7 (6) NO. 4 X 4' - 8" BAR STEEL REINFORCEMENT.

8 (5) NO. 4 X 5' - 1" BAR STELL REINFORCEMENT @ 1' - 0" C -C.

9 EXOTHERMIC CONNECTION TO EUIPMENT GROUNDING CONDUCTOR

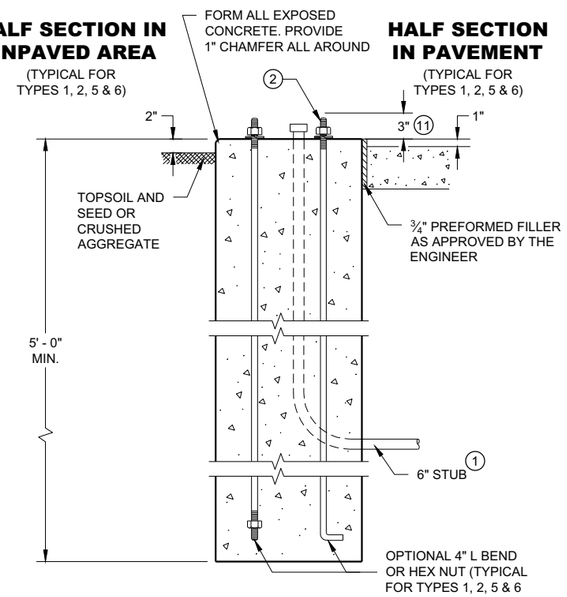
10 ⅝" DIA. X 8' -0" COPPERCLAD EQUIPMENT GROUNDING ELECTRODE REQUIRED

11 ANY ANCHOR ROD PROJECTION SHORTER THAN 2 ¾" OR LONGER THAN 3 ¼" SHALL REQUIRE THE BASE TO BE REMOVED AND REPLACED AT THE CONTRACTORS EXPENSE.

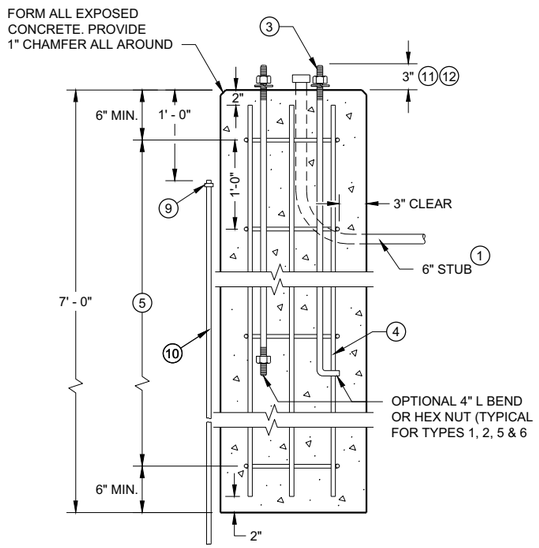
12 FOR NON - BREAKAWAY INSTALLATIONS, 4 ½" ± ANCHOR ROD PROJECTION WITH THE USE OF LEVELING NUTS. RODENT SCREEN REQUIRED.

HALF SECTION IN UNPAVED AREA
(TYPICAL FOR TYPES 1, 2, 5 & 6)

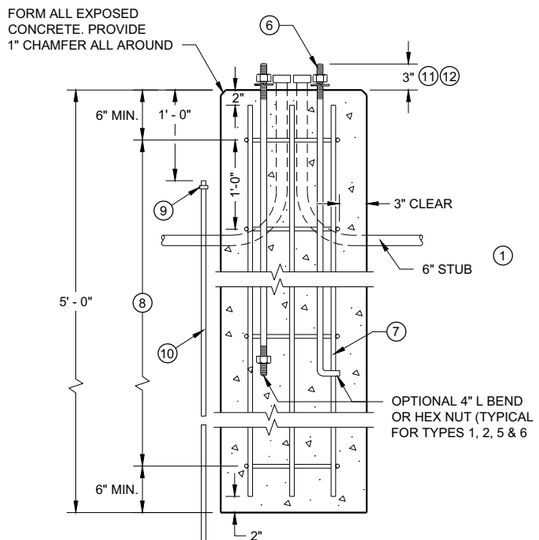
HALF SECTION IN PAVEMENT
(TYPICAL FOR TYPES 1, 2, 5 & 6)



TYPE 1



TYPE 2



TYPE 5 & 6

CONCRETE BASES

CONCRETE BASES
TYPES 1, 2, 5, & 6

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2019
DATE
/S/ Ahmet Demirbilek
STATE ELECTRICAL ENGI 284
FHWA

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

FOUR (4) BOLTS SHALL BE FURNISHED WITH EACH TRANSFORMER BASE. BOLTS SHALL BE 1" DIAMETER, 4" IN LENGTH, WITH WASHERS, LOCK WASHERS AND NUTS. BOLTS, NUTS AND WASHERS SHALL BE MANUFACTURED IN ACCORDANCE WITH SECTION 531.2.2 OF THE STANDARD SPECIFICATIONS.

LEVELING SHIMS, IF NEEDED, SHALL BE DESIGNED FOR THE PURPOSE AND USED UNDER CAST BASES WHEN PLUMBING POLES OR STANDARDS DURING INSTALLATION. THE USE OF WASHERS IN LIEU OF PROPER LEVELING SHIMS IS NOT ACCEPTABLE.

SHIM LENGTH SHALL BE LONG ENOUGH TO COMPLETELY COVER THE AREA UNDER THE LENGTH AND WIDTH OF THE BASE MOUNTING FLANGE.

DOUBLE NUTTING IS NOT ACCEPTABLE FOR LEVELING OR MOUNTING PURPOSES.

A NEMA APPROVED, U.L. LISTED, COPPER WITH BRASS OR STAINLESS STEEL SET SCREW, DIRECT BURY RATED, MECHANICAL CONNECTOR (LUG), SIZED TO ACCEPT AWG. #10 TO #4 COPPER STRANDED WIRE SHALL BE FURNISHED AND INSTALLED IN THE PEDESTAL AND TRANSFORMER BASES.

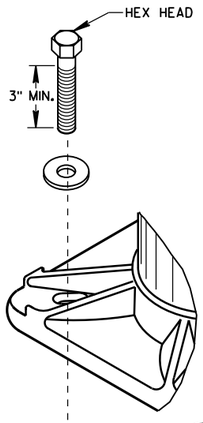
THE MECHANICAL CONNECTOR SHALL BE INSTALLED USING A 1/4" - 20 (TPI) STAINLESS STEEL HEX HEAD BOLT OF SUFFICIENT LENGTH TO FIRMLY ATTACH THE LUG TO THE BASE.

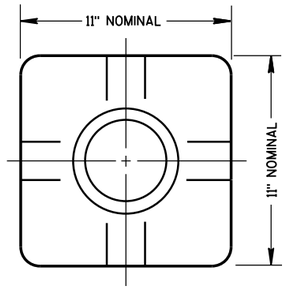
SHOULD THE MANNER OF ATTACHMENT OF THE LUG REQUIRE WASHERS, HEX NUTS, LOCK WASHER - THEY SHALL BE STAINLESS STEEL AS IS THE BOLT. THE MANNER OF ATTACHMENT SHALL NOT BLOCK ACCESSIBILITY TO WIRE PLACEMENT IN THE CONNECTOR.

PEDESTAL BASE COLLAR THREADING SHALL BE TAPERED AND IN ACCORDANCE WITH NATIONAL PIPE THREADING DIMENSIONS.

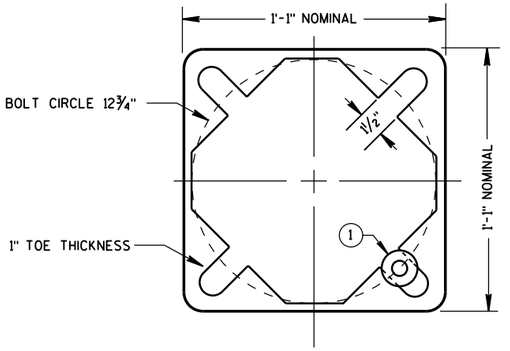
BASE COLLAR THREADING SHALL EXTEND INTO THE BASE COLLAR WITH SUFFICIENT DEPTH TO ACCEPT THE INSTALLATION OF TRAFFIC SIGNAL STANDARDS TO A DEPTH OF 1 1/2", THEN TIGHTENING TO A POINT OF BEING IMMOVABLE.

THE ACCESS DOOR SHALL BE OF THE SAME MATERIAL AS THE BASE.

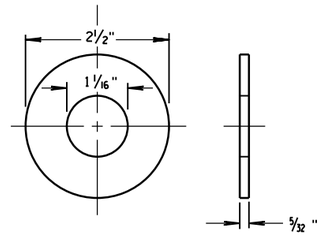




TOP VIEW
(PEDESTAL BASE)

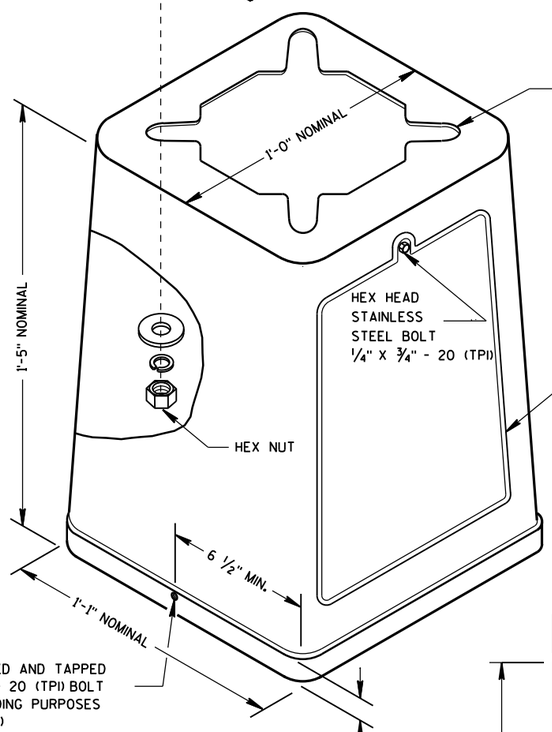


BOTTOM VIEW
(PEDESTAL BASE)

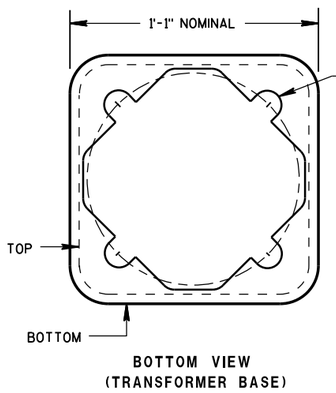


ZINC COATED STEEL WASHER
TO BE PROVIDED BY THE CONTRACTOR

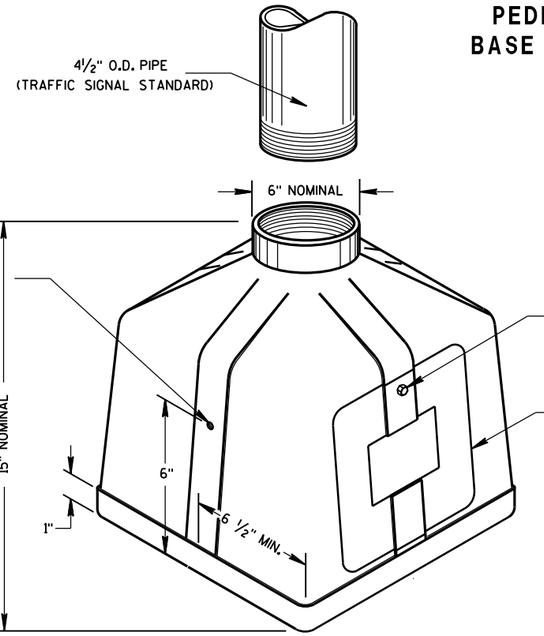
PEDESTAL BASE WASHER (1)



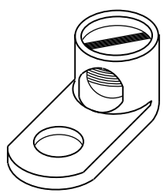
ISOMETRIC VIEW



BOTTOM VIEW
(TRANSFORMER BASE)

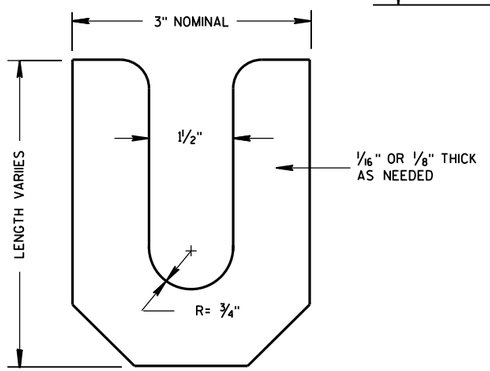


ISOMETRIC VIEW
PEDESTAL BASE



TYPICAL MECHANICAL CONNECTOR LUG
TO BE FURNISHED WITH EACH BASE

TRANSFORMER BASE
INTENDED FOR USE WITH TYPE 2, 3, 4, 5 & 6 POLES



LEVELING SHIM

TRANSFORMER/PEDESTAL BASES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept. 2014 — DATE
/S/ Ahmet Demirbilek — STATE ELECTRICAL
285
FHWA

6

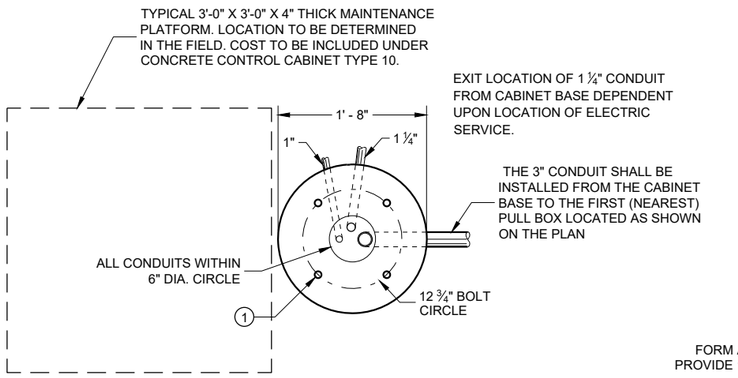
S.D.D. 9 C 3-4

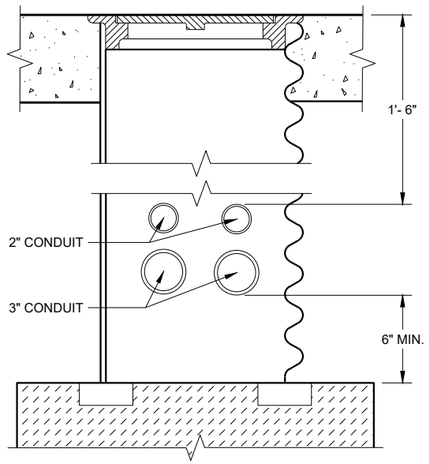
6

S.D.D. 9 C 3-4

CONTROL CABINET BASE TYPE	DIMENSIONS				CUBIC YARD CONCRETE (APPROX.)
	H	I	J	K	
TYPE 6 - 30" CABINET	34"	60"	10"	17"	.64
TYPE 7 - 38" CABINET	42"	60"	10"	21"	.93
TYPE 8 - 38" CABINET	42"	72"	12"	21"	1.29
TYPE 9 - VARIABLE	54"	72"	14"	27"	1.56
TYPE 10 - POST MOUNT	AS SHOWN				.65*

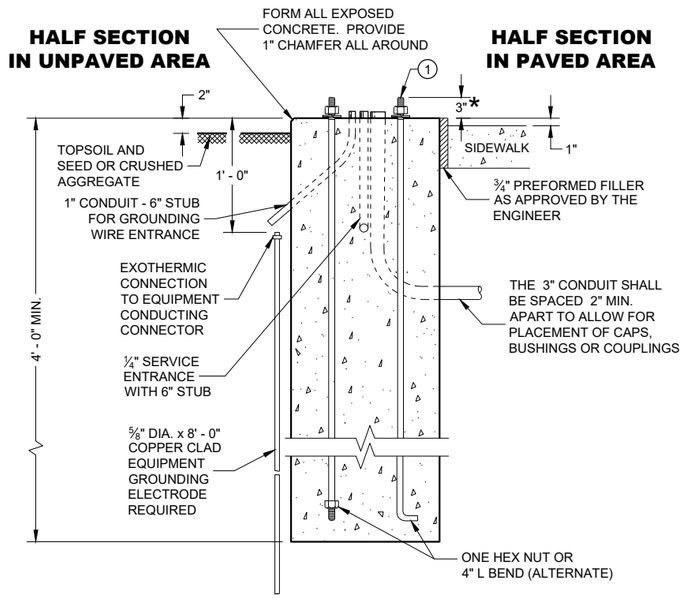
* INCLUDES MAINTENANCE PLATFORM.





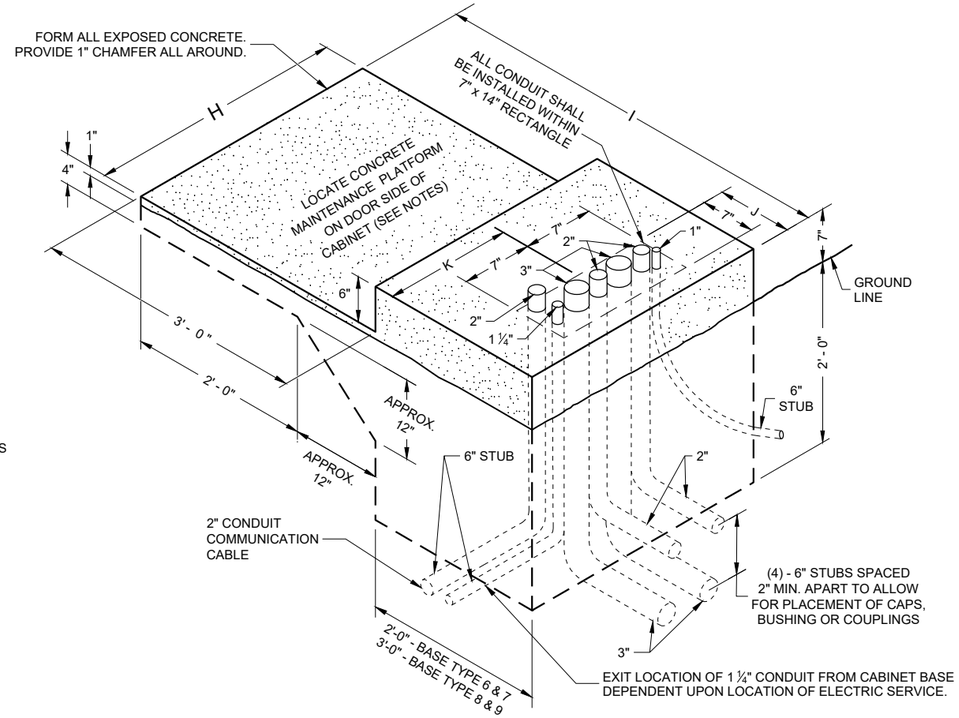
CONDUIT LOCATIONS IN 24" X 36" PULL BOX

(LEADING TO CONTROLLER CABINET BASE TYPE 6, 7, 8 AND 9)



TYPE 10

* ANY ANCHOR ROD PROJECTION SHORTER THAN 2 ¾" OR LONGER THAN 3 ¼" SHALL REQUIRE THE BASE TO BE REMOVED AND REPLACED AT THE CONTRACTORS EXPENSE.



ISOMETRIC VIEW
TYPE 6, 7, 8 AND 9

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

INSTALL FOUR (4) ½" INCH MINIMUM DIAMETER X 4 INCH MINIMUM LENGTH APPROVED CONCRETE MASONRY ANCHORS WITH A PULLOUT STRENGTH OF 9,000 LBS. TO ANCHOR THE CABINET TO TYPE 6, 7, 8, AND 9 BASES. THE ANCHOR STUDS SHALL BE LOCATED AS DIRECTED BY THE ENGINEER TO PROPERLY ANCHOR THE CONTROL CABINET TO THE BASE.

WHEN REQUIRED TO CONNECT NON - METALLIC CONDUIT TO METALLIC CONDUIT, ONLY ADAPTER FITTINGS, U. L. LISTED FOR ELECTRICAL USE, SHALL BE USED.

CONDUIT HEIGHT ABOVE THE CONCRETE BASE SHALL BE 1 INCH.

DEPTH OF CONDUIT INSTALLED BELOW THE TRAVELED WAY SHALL BE 24 INCHES MINIMUM AND 36 INCHES MAXIMUM.

DEPTH OF CONDUIT INSTALLED THAT IS NOT BELOW THE TRAVELED WAY SHALL BE 18 INCHES MINIMUM AND 36 INCHES MAXIMUM.

ANY EXCEPTION TO THE MAXIMUM DEPTH SHALL BE ONLY WITH THE WRITTEN APPROVAL OF THE ENGINEER.

CONTROL CABINET BASE TOP SURFACE SHALL BE TROWEL FINISHED SMOOTH AND LEVEL.

WHEN A TYPE 10 CONTROL CABINET BASE IS USED TO POST MOUNT A CONTROL CABINET, A 36" SQUARE 4" THICK CONCRETE MAINTENANCE PLATFORM SHALL BE REQUIRED ON THE DOOR SIDE OF THE CABINET. THE TOP 1 INCH SHALL BE ABOVE FINISHED GRADE AND BE BROOM FINISHED AND LEVEL.

MAINTENANCE PLATFORMS ARE NOT REQUIRED WHEN THE SURROUNDING AREA IS PAVED.

MINIMUM BENDING RADIUS OF CONDUIT EQUALS 6 TIMES THE DIAMETER.

ALL METALLIC CONDUIT ENDS SHALL BE REAMED AND THREADED.

ALL CONDUIT ENDS AT THE TOP OF CONCRETE BASES SHALL BE CAPPED IF METALLIC OR PLUGGED IF NON - METALLIC IMMEDIATELY AFTER PLACEMENT AND BEFORE CONCRETE IS POURED. CONDUITS IN WHICH WIRE OR CABLE IS NOT BEING INSTALLED SHALL REMAIN CAPPED OR PLUGGED.

ALL FOUR (TWO INCH AND THREE INCH) CONDUIT SHALL BE INSTALLED FROM THE CABINET BASE TO THE FIRST (NEAREST PULL BOX LOCATED AS SHOWN ON THE PLANS.

BELL ENDS SHALL BE INSTALLED ON ALL PVC CONDUIT EXPOSED AT THE TOP OF THE CONCRETE BASE BEFORE INSTALLATION OF CABLE OR WIRE.

CONCRETE FORM DEPTH BELOW FINISHED GRADE SHALL BE 6" MAXIMUM. CONCRETE FORMS SHALL BE REMOVED AFTER CONCRETE HAS SET.

WHEN ANCHOR RODS USING THE ALTERNATE L BEND ARE FURNISHED FOR THE TYPE 10 BASE, THE 4" L BEND SHALL BE IN ADDITION TO THE SPECIFIED ANCHOR ROD BAR LENGTH.

THE "L" BEND SHALL NOT BE THREADED.

STRAIGHT ANCHOR RODS SHALL BE THREADED 12" IN LENGTH ON EACH END OF THE ROD.

ANCHOR RODS SHALL BE INSTALLED WITH MISALIGNMENTS OF LESS THAN 1 :40 FROM VERTICAL.

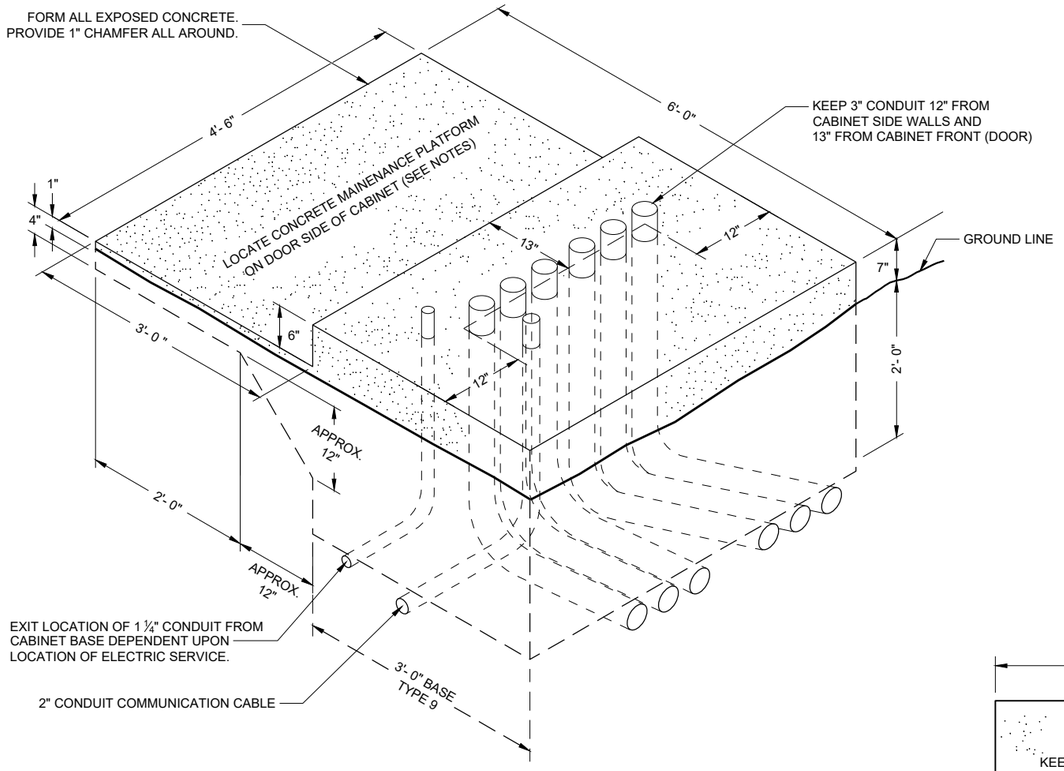
(1) FOUR (4) ANCHOR RODS, 1" DIA. X 3'-6". ANCHOR RODS SHALL BE MANUFACTURED IN ACCORDANCE WITH SECTION 654.2 OF THE STANDARD SPECIFICATIONS.

CONCRETE CABINET CONTROL BASES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
September 2016
DATE
/S/ Ahmet Demerbilek
STATE ELECTRICAL ENGI 286
FHWA

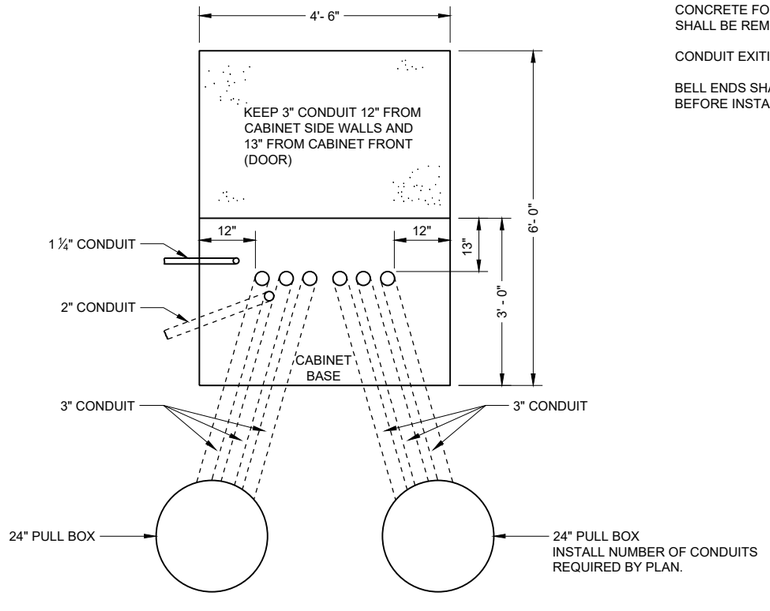
SDD 09C06 Concrete Control Cabinet Base, Type 9, Special



ISOMETRIC VIEW

TYPE 9 SPECIAL

(C.Y. CONCRETE = APPROX. 1.56)



PLAN VIEW

CONCRETE CONTROL CABINET BASE, TYPE 9 SPECIAL

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

INSTALL FOUR INCH MINIMUM DIAMETER X 4 INCH MINIMUM LENGTH STAINLESS STEEL APPROVED CONCRETE MASONRY ANCHORS WITH A PULLOUT STRENGTH OF 9,000 LBS. TO ANCHOR THE CABINET TO TYPE 6, 7, 8, AND 9 BASES. THE ANCHOR STUDS SHALL BE LOCATED AS DIRECTED BY THE ENGINEER TO PROPERLY ANCHOR THE CONTROL CABINET TO THE BASE.

WHEN REQUIRED TO CONNECT NON - METALLIC CONDUIT TO METALLIC CONDUIT, ONLY ADAPTER FITTINGS, U. L. LISTED FOR ELECTRICAL USE, SHALL BE USED.

CONDUIT HEIGHT ABOVE THE CONCRETE BASE SHALL BE 1 INCH.

DEPTH OF CONDUIT INSTALLED BELOW THE TRAVELED WAY SHALL BE 24 INCHES MINIMUM AND 36 INCHES MAXIMUM.

DEPTH OF CONDUIT INSTALLED THAT IS NOT BELOW THE TRAVELED WAY SHALL BE 18 INCHES MINIMUM AND 36 INCHES MAXIMUM.

ANY EXCEPTION TO THE MAXIMUM DEPTH SHALL BE ONLY WITH THE WRITTEN APPROVAL OF THE ENGINEER.

CONTROL CABINET BASE TOP SURFACE SHALL BE TROWEL FINISHED SMOOTH AND LEVEL.

MAINTENANCE PLATFORM SHALL BE FLOAT OR BROOM FINISHED AND LEVEL.

MAINTENANCE PLATFORMS ARE NOT REQUIRED WHEN THE SURROUNDING AREA IS PAVED.

MINIMUM BENDING RADIUS OF CONDUIT EQUALS 6 TIMES THE DIAMETER.

ALL METALLIC CONDUIT ENDS SHALL BE REAMED AND THREADED.

CAP ALL BELOW GRADE METALLIC CONDUIT ENDS IN WHICH WIRE OR CABLE IS NOT BEING INSTALLED.

PLUG ALL BELOW GRADE NON - METALLIC CONDUIT ENDS IN WHICH WIRE OR CABLE IS NOT BEING INSTALLED.

ALL CONDUIT ENDS AT THE TOP OF CONCRETE BASES SHALL BE CAPPED IF METALLIC OR PLUGGED IF NON - METALLIC IMMEDIATELY AFTER PLACEMENT AND BEFORE CONCRETE IS POURED. CONDUITS IN WHICH WIRE OR CABLE IS NOT BEING INSTALLED SHALL REMAIN CAPPED OR PLUGGED.

CONCRETE FORM DEPTH BELOW FINISHED GRADE SHALL BE 6 INCHES MAXIMUM. CONCRETE FORMS SHALL BE REMOVED AFTER CONCRETE HAS SET.

CONDUIT EXITING THE CONCRETE BASE (SIX 3") SHALL TERMINATE IN PULL BOXES AS SHOWN ON THE PLANS.

BELL ENDS SHALL BE INSTALLED ON ALL PVC CONDUIT EXPOSED AT THE TOP OF THE CONCRETE BASE BEFORE INSTALLATION OF CABLE OR WIRE.

CONCRETE CONTROL CABINET BASE TYPE 9, SPECIAL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
September 2014
DATE

/S/ Ahmet Demerbilek
STATE ELECTRICAL ENGI 287

FHWA

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

BASES (SHAFT) SHALL BE EXCAVATED BY THE USE OF A CIRCULAR AUGER. IF BASE REQUIRES A DEEP FORM BECAUSE OF LOOSE SOIL, THE FORM SHALL BE REMOVED BEFORE BACKFILLING. A STEEL CASING OR CORRUGATED METAL PIPE IS ALLOWED TO REMAIN. BACKFILL SHALL BE TAMPED TIGHT AGAINST THE BASE IN LAYERS OF ONE FOOT OR LESS.

TOP SURFACE OF THE CONCRETE BASE SHALL BE TROWEL FINISHED AND LEVEL.

ANCHOR RODS SHALL BE INSTALLED WITH MISALIGNMENTS OF LESS THAN 1:40 FROM VERTICAL.

BAR STEEL REINFORCEMENT SHALL BE COATED WITH POWDERED EPOXY RESIN IN ACCORDANCE WITH SECTION 505 OF THE STANDARD SPECIFICATIONS (LATEST EDITION).

WELDING OF ANCHOR RODS TO THE CAGE IS UNACCEPTABLE. TEMPLATES SHALL BE USED.

CONDUIT SIZES AND LOCATIONS SHALL BE SHOWN ON THE PLANS.

MINIMUM BENDING RADIUS OF CONDUIT IS EQUAL TO 6 TIMES THE DIAMETER.

CONDUIT HEIGHT ABOVE CONCRETE BASES SHALL BE 4" INCHES. ALL METALLIC CONDUIT ENDS SHALL BE REAMED AND THREADED. NON-METALLIC CONDUIT SHALL HAVE BELL ENDS INSTALLED. ALL CONDUIT SHALL SLOPE TO PULL BOX.

ALL CONDUIT ENDS AT THE TOP OF CONCRETE BASES SHALL BE CAPPED IF METALLIC OR PLUGGED IF NON-METALLIC IMMEDIATELY AFTER PLACEMENT AND BEFORE CONCRETE IS POURED. CONDUITS IN WHICH WIRE OR CABLE IS NOT INSTALLED SHALL REMAIN CAPPED OR PLUGGED.

BELL ENDS SHALL BE INSTALLED ON ALL PVC CONDUIT EXPOSED AT THE TOP OF CONCRETE BASES BEFORE INSTALLATION OF CABLE OR WIRE.

WHEN REQUIRED TO CONNECT NON-METALLIC CONDUIT TO METALLIC CONDUIT, ONLY ADAPTER FITTINGS, U.L. LISTED FOR ELECTRICAL USE, SHALL BE USED.

ENDS OF CONDUIT INSTALLED BELOW GRADE FOR FUTURE USE SHALL BE CAPPED IF METALLIC OR PLUGGED IF NONMETALLIC.

A NO. 4 AWG STRANDED COPPER EQUIPMENT GROUNDING CONDUCTOR SHALL BE EXOTHERMICALLY WELDED TO THE EQUIPMENT GROUNDING ELECTRODE (GROUND ROD).

THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE FURNISHED AND INSTALLED TO ENTER THE BASE THROUGH A 1 INCH CONDUIT INSTALLED FOR GROUNDING PURPOSES, LEAVING A 4 FOOT COIL OF WIRE ABOVE THE CONCRETE BASE. THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE NEATLY COILED AND THE COILS TIED TOGETHER.

THE FINAL OR TERMINATING CONCRETE BASE IN A CONDUIT RUN SHALL HAVE A 6" EXIT STUB INSTALLED FOR FUTURE CABLING USE. THE EXIT STUB SHALL BE SIZED AS USED THROUGHOUT THE CONDUIT RUN AS SHOWN A THE ENTRANCE OF THE BASE.

(1) THE MINIMUM DEPTH OF CONDUIT EXITING THE CONCRETE BASE AND INSTALLED BELOW THE TRAVELED WAY SHALL BE 24 INCHES. THE MINIMUM DEPTH OF CONDUIT EXITING THE CONCRETE BASE THAT IS NOT INSTALLED BELOW THE TRAVELED WAY SHALL BE 18 INCHES. THE MAXIMUM DEPTH OF ALL CONDUIT SHALL BE 36 INCHES (GREATER THAN 36 INCHES IF INSTALLED IN BREAKER RUN) EXCEPT WITH WRITTEN APPROVAL OF THE ENGINEER.

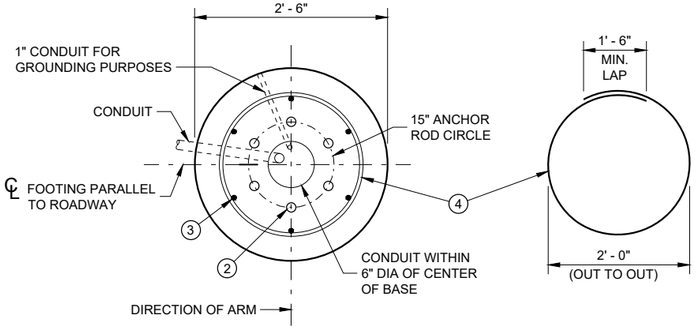
(2) (6) 1 ½ DIA. X 4' - 4" ANCHOR RODS

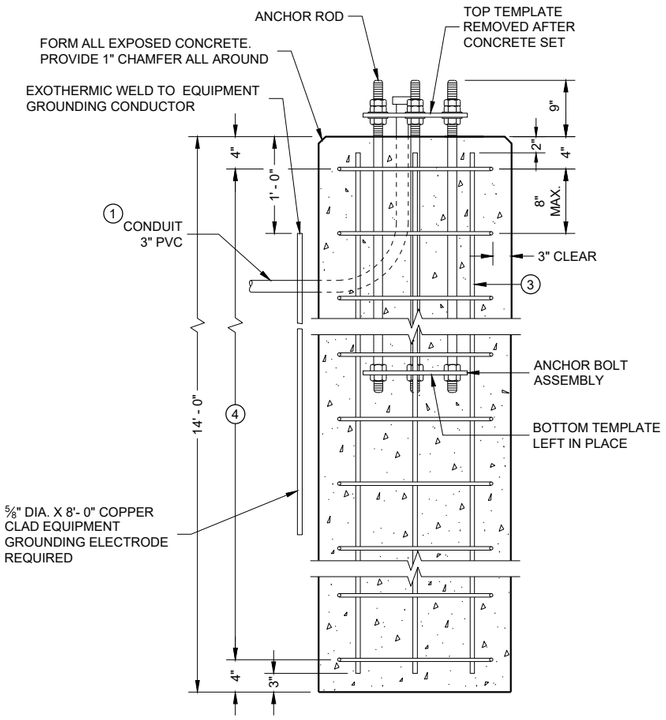
(3) (6) NO. 6 X 13' - 7" BAR STEEL REINFORCEMENT.

(4) (21) NO. 5 X 7'-10" BAR STEEL REINFORCEMENT @ 8" MAX. C-C.

CONCRETE MASONRY.....fc = 3,500 p.s.i
HIGH STRENGTH BAR STEEL REINFORCEMENT, GRADE 60.....fy = 60,000 p.s.i.
ANCHOR RODS, ASTM F1554 GRADE 55 (IN ACCORDANCE .....fy = 55,000 p.s.i.
WITH SECTION 531.2.2 OF THE STANDARD SPECIFICATION)
TEMPLATES, ASTM A709, GRADE 36.....fy = 36,000 p.s.i.

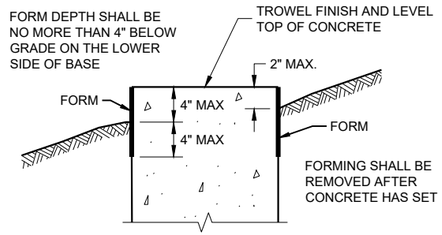
QUANTITY REQUIREMENTS	
APPROX. CUBIC YARDS OF CONCRETE	2.5
LBS. OF HOOP BAR STEEL	172
LBS. OF VERTICAL BAR STEEL	122



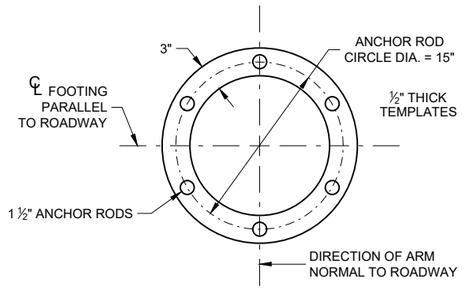


CONCRETE BASE, TYPE 10
(FOR TYPE 9, TYPE 10 AND OVER HEIGHT (OH) POLES)

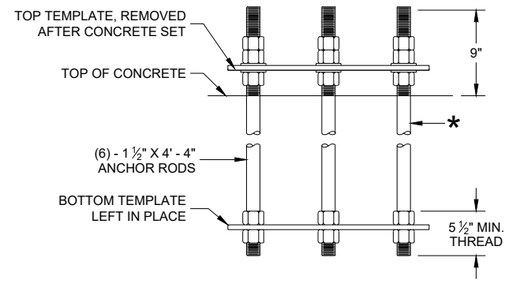
TO BE USED WHEN GROUND ELEVATION AT BASE EQUALS OR IS GREATER THAN HIGH POINT OF ROADWAY ELEVATION. SEE SDD 9C13 WHEN GROUND ELEVATION AT BASE IS LOWER THAN HIGH POINT OF ROADWAY ELEVATION.



FORMING DETAIL



TOP AND BOTTOM TEMPLATE



ANCHOR ROD ASSEMBLY DETAILS

* THREAD TOP 10" OF ANCHOR ROD FOR 3 NUTS AND 2 WASHERS AND BOTTOM 5 ½" FOR 2 NUTS PER ANCHOR ROD. HOT DIP GALVANIZE THE ENTIRE LENGTH OF THE ANCHOR ROD (ASTM A123) AND HOT DIP NUTS AND WASHERS (ASTM A153. USE ZINC COATED NUTS MANUFACTURED WITH SUFFICIENT ALLOWANCE TO ALLOW NUTS TO RUN FREELY ON THE THREADS.

CONCRETE BASE TYPE 10

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2017 — DATE
/S/ Ahmet Demerbilek — WIND LOADED STRUCTU PROGRAM LEADER
FHWA

6

SDD 09C11 - 10

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

THE CONTRACTOR IS RESPONSIBLE FOR MAKING THEIR OWN DETERMINATION AS TO THE TYPE AND LOCATION OF UNDERGROUND UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE THERETO.

BASES (SHAFT) SHALL BE EXCAVATED BY THE USE OF A CIRCULAR AUGER. IF BASE REQUIRES A DEEP FORM BECAUSE OF LOOSE SOIL, THE FORM SHALL BE REMOVED BEFORE BACKFILLING. A STEEL CASING OR CORRUGATED METAL PIPE IS ALLOWED TO REMAIN. BACKFILL SHALL BE TAMPED TIGHT AGAINST THE BASE IN LAYERS OF ONE FOOT OR LESS.

TOP SURFACE OF THE CONCRETE BASE SHALL BE TROWEL FINISHED AND LEVEL.

ANY DAMAGE TO THE CONCRETE BASE AND ANCHOR RODS DURING CONSTRUCTION OPERATIONS SHALL BE REPAIRED AT THE ENGINEER'S DIRECTION, AT THE EXPENSE OF THE CONTRACTOR.

THE REINFORCEMENT AND ANCHOR RODS SHALL BE ADEQUATELY SUPPORTED IN THE PROPER POSITIONS SO NO MOVEMENT OCCURS DURING CONCRETE PLACEMENT.

ORIENT ANCHOR RODS IN FOOTING AND PROVIDE ANCHOR RODS STICK OUT ABOVE TOP OF CONCRETE FOOTING BASE PER THIS SHEET.

ANCHOR RODS SHALL BE INSTALLED WITH MISALIGNMENTS OF LESS THAN 1:40 FROM VERTICAL.

BAR STEEL REINFORCEMENT SHALL BE COATED WITH POWDERED EPOXY RESIN IN ACCORDANCE WITH SECTION 505 OF THE STANDARD SPECIFICATIONS (LATEST EDITION).

BENDING DIMENSIONS FOR REINFORCING BARS ARE OUT TO OUT.

WELDING OF ANCHOR RODS TO THE CAGE IS UNACCEPTABLE. TEMPLATES SHALL BE USED.

USE 3" CLEAR FOR ALL REINFORCEMENT UNLESS NOTED OTHERWISE.

FORM ALL EXPOSED CONCRETE CORNERS WITH 1" CHAMFER ALL AROUND. TOP OF THE CONCRETE BASE SHALL BE TROWEL FINISHED AND LEVEL.

CONDUIT SIZES AND LOCATIONS SHALL BE SHOWN ON THE PLANS.

MINIMUM BENDING RADIUS OF CONDUIT IS EQUAL TO 6 TIMES THE DIAMETER.

CONDUIT HEIGHT ABOVE CONCRETE BASES SHALL BE 4 ½" INCHES. ALL METALLIC CONDUIT ENDS SHALL BE REAMED AND THREADED. NON-METALLIC CONDUIT SHALL HAVE BELL ENDS INSTALLED. ALL CONDUIT SHALL SLOPE TO PULL BOX.

ALL CONDUIT ENDS AT THE TOP OF CONCRETE BASES SHALL BE CAPPED IF METALLIC OR PLUGGED IF NON-METALLIC IMMEDIATELY AFTER PLACEMENT AND BEFORE CONCRETE IS POURED. CONDUITS IN WHICH WIRE OR CABLE IS NOT INSTALLED SHALL REMAIN CAPPED OR PLUGGED.

BELL ENDS SHALL BE INSTALLED ON ALL PVC CONDUIT EXPOSED AT THE TOP OF CONCRETE BASES BEFORE INSTALLATION OF CABLE OR WIRE.

WHEN REQUIRED TO CONNECT NON-METALLIC CONDUIT TO METALLIC CONDUIT, ONLY ADAPTER FITTINGS, U.L. LISTED FOR ELECTRICAL USE, SHALL BE USED.

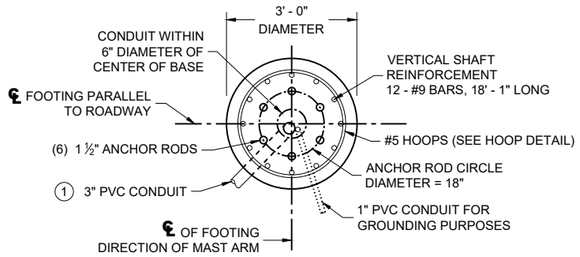
A NO. 4 AWG STRANDED COPPER EQUIPMENT GROUNDING CONDUCTOR SHALL BE EXOTHERMICALLY WELDED TO THE EQUIPMENT GROUNDING ELECTRODE (GROUND ROD).

THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE FURNISHED AND INSTALLED TO ENTER THE BASE THROUGH A 1 INCH CONDUIT INSTALLED FOR GROUNDING PURPOSES, LEAVING A 4 FOOT COIL OF WIRE ABOVE THE CONCRETE BASE. THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE NEATLY COILED AND THE COILS TIED TOGETHER.

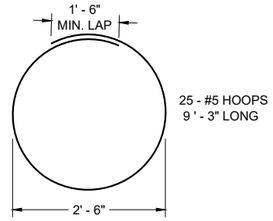
THE FINAL OR TERMINATING CONCRETE BASE IN A CONDUIT RUN SHALL HAVE A 6" EXIT STUB INSTALLED FOR FUTURE CABLING USE. THE EXIT STUB SHALL BE SIZED AS USED THROUGHOUT THE CONDUIT RUN AS SHOWN A THE ENTRANCE OF THE BASE.

(1) THE MINIMUM DEPTH OF CONDUIT EXITING THE CONCRETE BASE AND INSTALLED BELOW THE TRAVELED WAY SHALL BE 24 INCHES. THE MINIMUM DEPTH OF CONDUIT EXITING THE CONCRETE BASE THAT IS NOT INSTALLED BELOW THE TRAVELED WAY SHALL BE 18 INCHES. THE MAXIMUM DEPTH OF ALL CONDUIT SHALL BE 36 INCHES (GREATER THAN 36 INCHES IF INSTALLED IN BREAKER RUN) EXCEPT WITH WRITTEN APPROVAL OF THE ENGINEER.

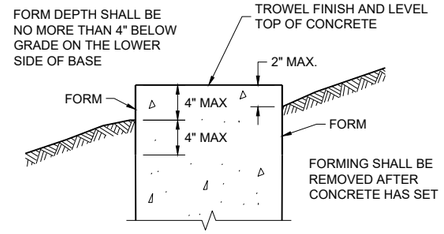
CONCRETE MASONRY.....fc = 3,500 p.s.i
HIGH STRENGTH BAR STEEL REINFORCEMENT, GRADE 60.....fy = 60,000 p.s.i.
ANCHOR RODS, ASTM F1554 GRADE 55.....fy = 55,000 p.s.i.
(IN ACCORDANCE WITH SECTION 531.2.2 OF THE STANDARD SPECIFICATION)
TEMPLATES, ASTM A709, GRADE 36.....fy = 36,000 p.s.i.



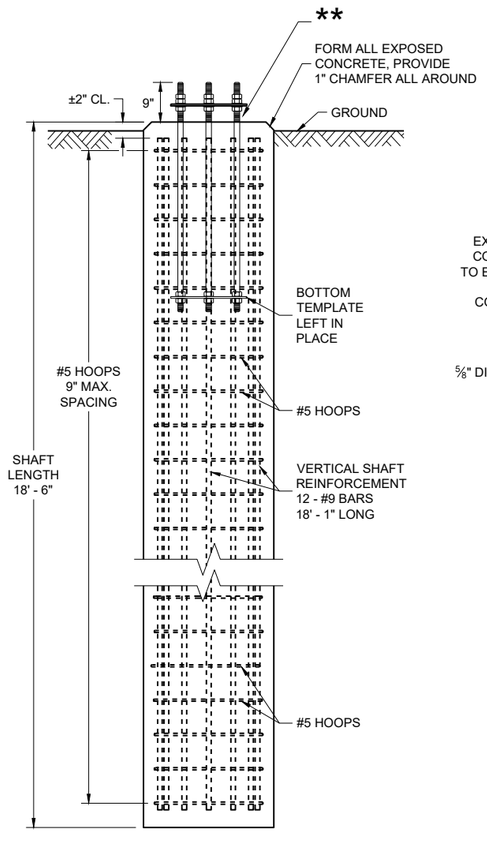
PLAN VIEW



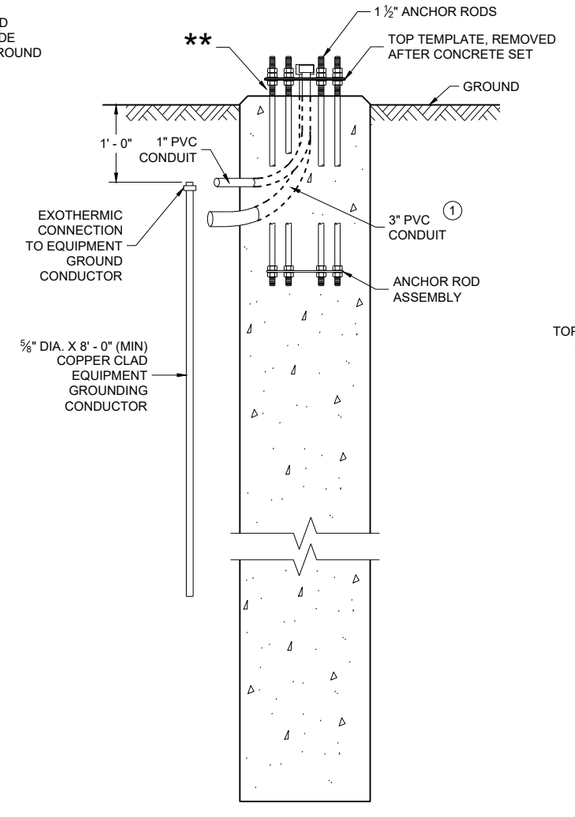
HOOP DETAIL



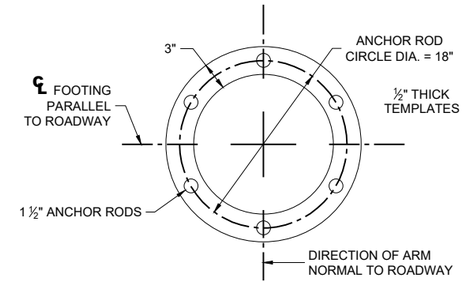
FORMING DETAIL



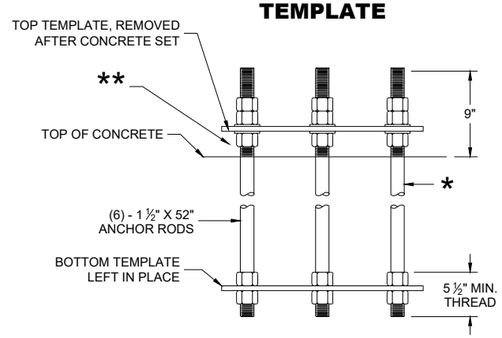
ELEVATION VIEW
(CONDUITS NOT SHOWN ON THIS VIEW FOR CLARITY)



SIDE VIEW
(HOOPS AND VERTICAL SHAFT REINFORCEMENT NOT SHOWN ON THIS VIEW FOR CLARITY)



TOP AND BOTTOM TEMPLATE



ANCHOR ROD ASSEMBLY DETAILS

* THREAD TOP 10" OF ANCHOR ROD FOR 3 NUTS AND 2 WASHERS AND BOTTOM 5 ½" FOR 2 NUTS PER ANCHOR ROD. HOT DIP GALVANIZE THE ENTIRE LENGTH OF THE ANCHOR ROD (ASTM A123) AND HOT DIP NUTS AND WASHERS (ASTM A153. USE ZINC COATED NUTS MANUFACTURED WITH SUFFICIENT ALLOWANCE TO ALLOW NUTS TO RUN FREELY ON THE THREADS.

** RODENT PROTECTION REQUIRED

CONCRETE BASE, TYPE 10 SPECIAL
(FOR TYPE 9 SPECIAL AND TYPE 10 SPECIAL POLES AND OVER HEIGHT (OH) POLES)

CONCRETE = 4.8 CUBIC YARD
H.S. REINFORCEMENT = 979 LBS.

FOR USE WHEN GROUND ELEVATION AT BASE EQUALS OR IS GREATER THAN HIGH POINT OF ROADWAY ELEVATION.

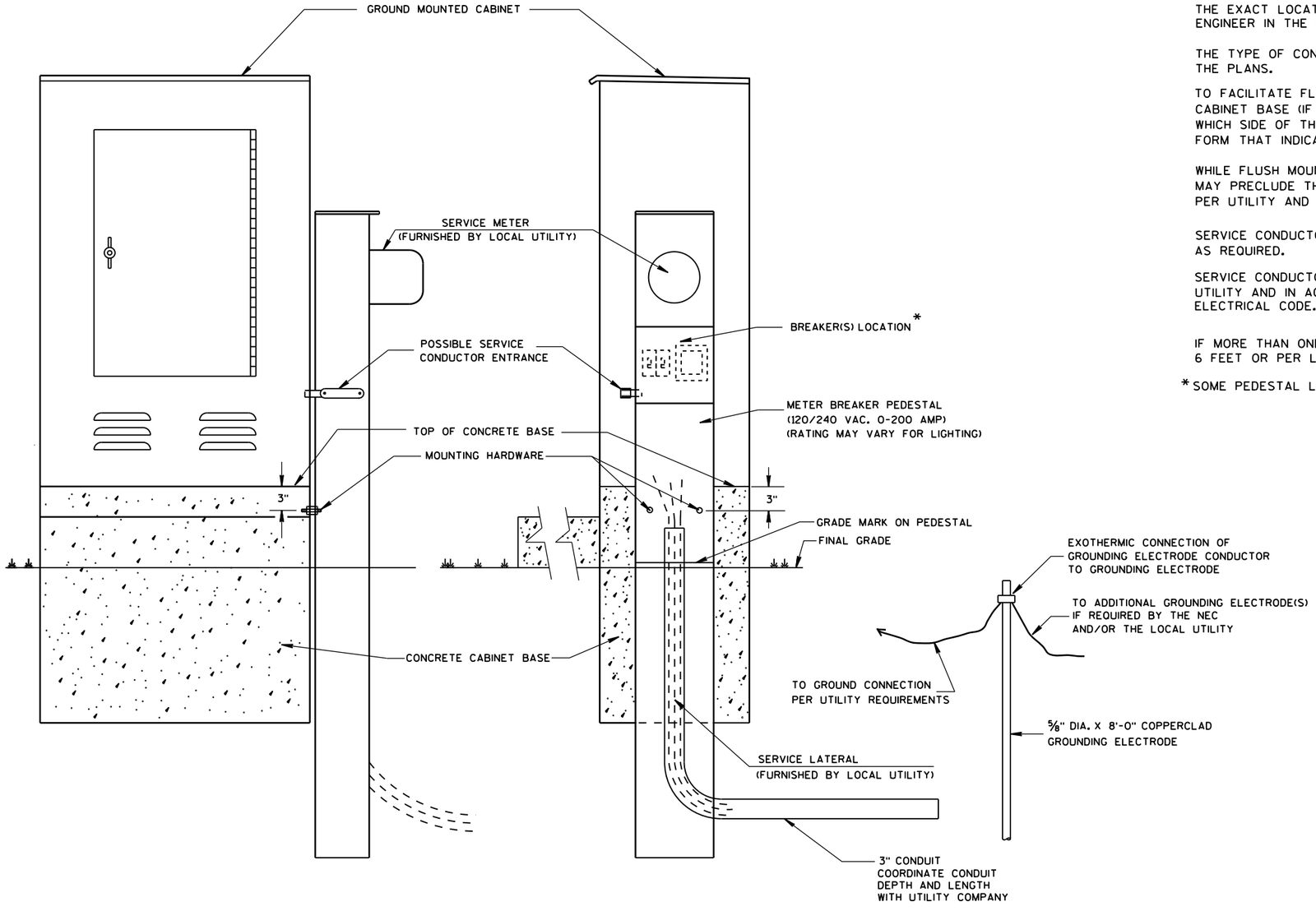
CONCRETE BASE TYPE 10 SPECIAL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2025 — DATE
/S/ Alex Crabtree — WIND LOADED STRUCTURES PROGRAM LEADER

FHWA

6
SDD 09C15-03



TYPICAL CABINET SERVICE INSTALLATION

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

THE EXACT LOCATION OF THE METER BREAKER PEDESTAL SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD.

THE TYPE OF CONCRETE CABINET BASE TO BE INSTALLED SHALL BE AS CALLED FOR IN THE PLANS.

TO FACILITATE FLUSH MOUNTING OF THE METER BREAKER PEDESTAL AGAINST THE SIDE OF THE CABINET BASE (IF FLUSH MOUNTING POSSIBLE. CONFER WITH THE LOCAL UTILITY TO DETERMINE WHICH SIDE OF THE CONCRETE BASE THE ELECTRICAL SERVICE LATERAL WILL APPROACH. THEN FORM THAT INDICATED SIDE FOR FULL SIDE DEPTH.

WHILE FLUSH MOUNTING IS THE MOST DESIRABLE MOUNTING CONFIGURATION UTILITY REQUIREMENTS MAY PRECLUDE THIS OPTION. CONTRACTOR MUST PROVIDE UTILITY APPROVED PEDESTAL AND INSTALL PER UTILITY AND MANUFACTURERS REQUIREMENTS.

SERVICE CONDUCTOR ENTRANCES SHALL BE RIGID METALLIC CONDUIT, NIPPLES AND/OR CONDULETS AS REQUIRED.

SERVICE CONDUCTOR ENTRANCES SHALL BE SIZED AND LOCATED AS REQUIRED BY THE LOCAL UTILITY AND IN ACCORDANCE WITH APPROPRIATE ARTICLES OF THE LATEST ACCEPTED NATIONAL ELECTRICAL CODE.

IF MORE THAN ONE GROUNDING ELECTRODE IS REQUIRED, THE DISTANCE APART SHALL BE 6 FEET OR PER LOCAL UTILITY REGULATIONS.

*SOME PEDESTAL LIGHTING PLANS SHOW MAIN LUGS ONLY.

6

S.D.D. 9 D 1-5

6

S.D.D. 9 D 1-5

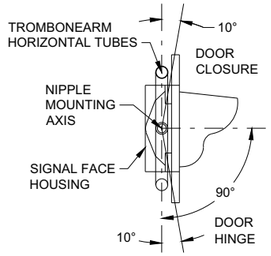
CABINET SERVICE INSTALLATION (METER BREAKER PEDESTAL)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

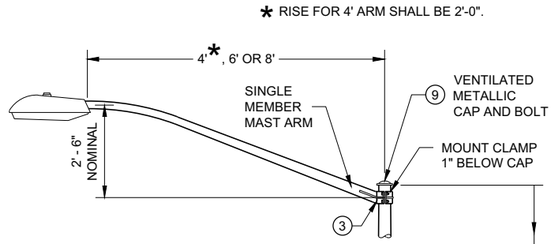
APPROVED
Sept. 2014
DATE

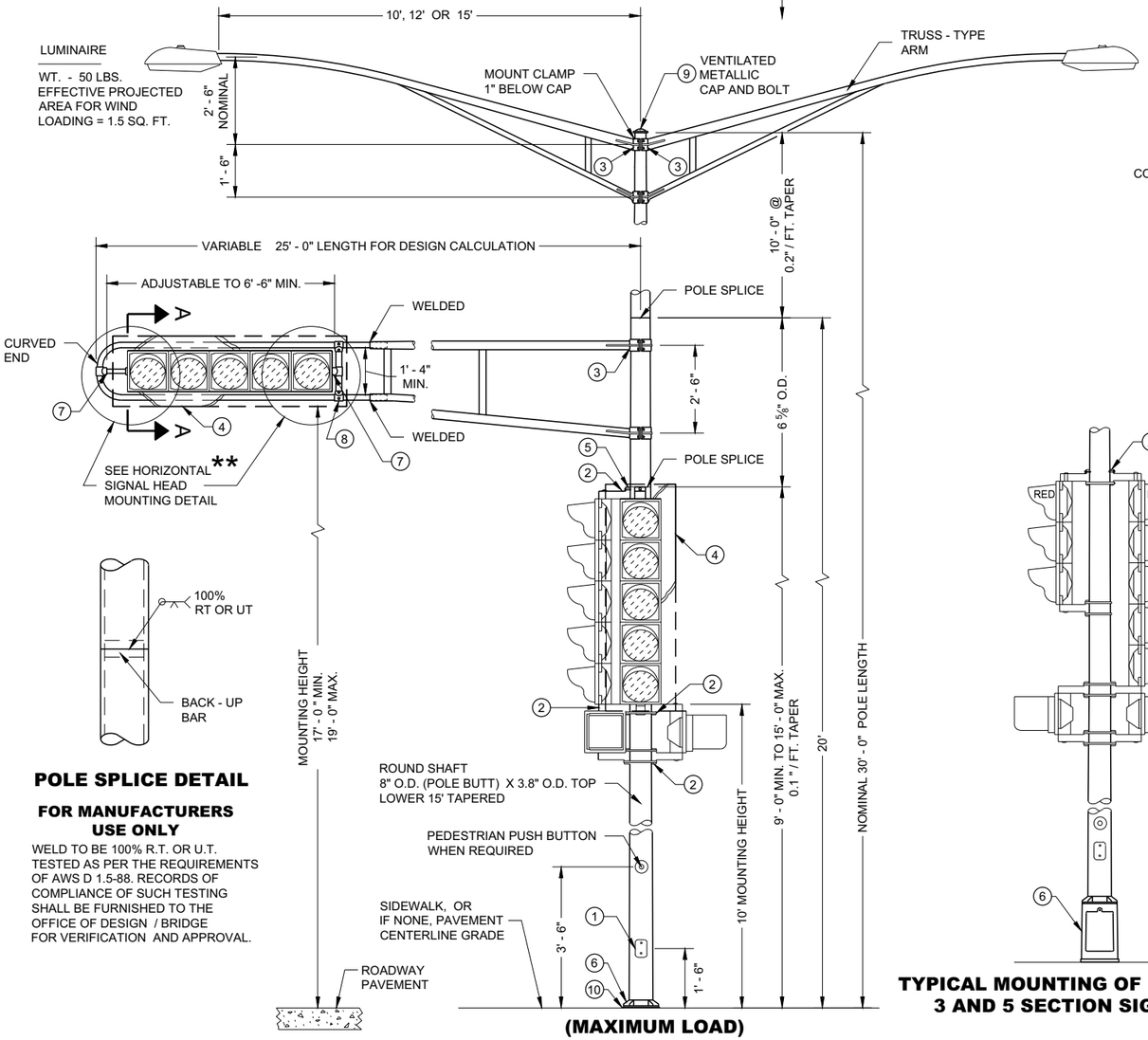
/S/ Ahmet Demirbilek
STATE ELECTRICAL

FHWA

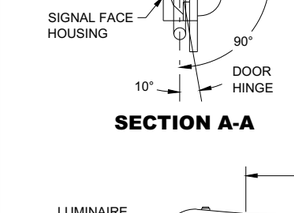


SECTION A-A





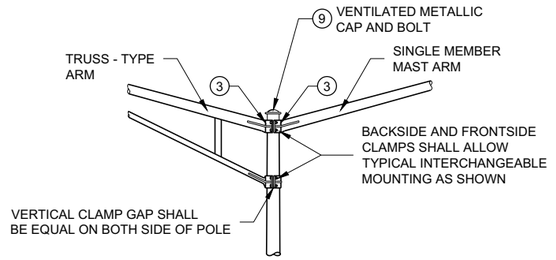
(MAXIMUM LOAD)



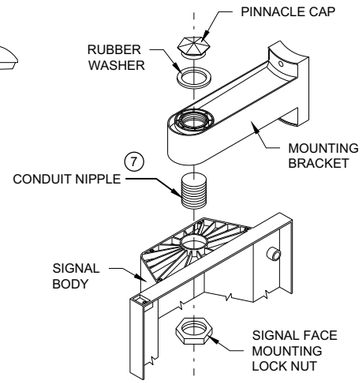
POLE SPLICE DETAIL

FOR MANUFACTURERS USE ONLY

WELD TO BE 100% R.T. OR U.T. TESTED AS PER THE REQUIREMENTS OF AWS D 1.5-88. RECORDS OF COMPLIANCE OF SUCH TESTING SHALL BE FURNISHED TO THE OFFICE OF DESIGN / BRIDGE FOR VERIFICATION AND APPROVAL.

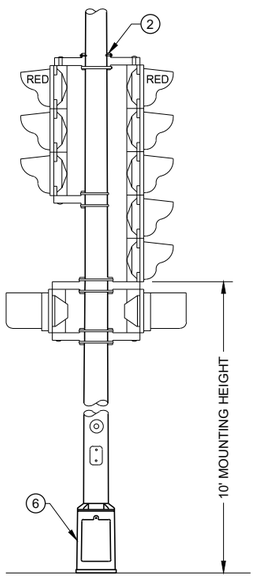


INTERCHANGEABLE MOUNTING DETAIL

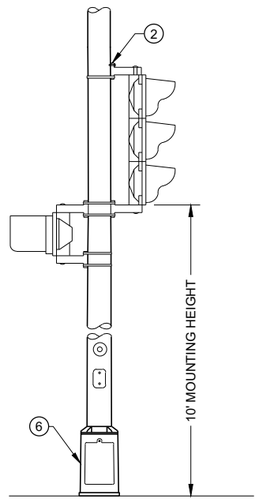


SIGNAL FACE MOUNTING DETAIL

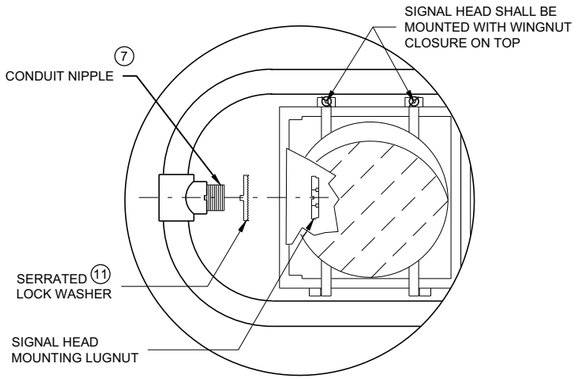
(BANDED)



TYPICAL MOUNTING OF BACK TO BACK 3 AND 5 SECTION SIGNAL FACES



TYPICAL MOUNTING OF 3 SECTION SIGNAL FACE



HORIZONTAL SIGNAL HEAD ** MOUNTING DETAIL

** SIGNAL HEAD ATTACHMENT ALSO APPLIES TO MOUNTING AT CROSS BAR

TYPE 3 POLE MOUNTING CONFIGURATION

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

ALL TYPE 3 POLE MOUNTINGS SHALL BE DESIGNED TO INCLUDE TWIN 15' ARMS WITH LUMINAIRES.

POLES SHALL BE GALVANIZED STEEL.

SECTION 657, POLES, OF THE STANDARD SPECIFICATIONS SHALL APPLY TO THIS DRAWING.

A PULL WIRE / ROPE SHALL BE INSTALLED IN EACH TROMBONE ARM RACEWAY DURING THE MANUFACTURING PROCESS.

THE SLIPFITTER END OF THE LUMINAIRE MAST ARM SHALL BE A NOMINAL 2 3/8 INCHES IN OUTSIDE DIAMETER. THE STRAIGHT PORTION OF THE SLIPFITTER END OF THE LUMINAIRE MAST ARM SHALL BE A NOMINAL 12 INCHES IN LENGTH.

WHEN TRANSFORMER BASES ARE USED, WIRE CONNECTIONS SHALL BE MADE IN THE TRANSFORMER BASE.

(1) 4" X 6" REINFORCED HANDHOLE AND COVER ASSEMBLY WITH TWO (2) ¼" X ¾" - 20 TPI , STAINLESS STEEL, HEX HEAD BOLTS.

(2) SIGNAL FACE MOUNTING BRACKETS. MOUNT WITH CAP SCREWS AND BANDING.

(3) GROMMETS. 1" CHASE NIPPLES OR 1" CLOSE CONDUIT NIPPLES WITH BUSHINGS SHALL BE PROVIDED FOR 1 3/8" HOLE IN POLE SHAFT FOR WIRING.

(4) SECURELY MOUNT DULL BLACK POLYCARBONATE BACKPLATES, PROJECTING 5" BEYOND ALL SIDES OF THE SIGNAL FACE HOUSING, PER MANUFACTURER'S RECOMMENDATIONS.

(5) POLE MOUNTED SIGNAL FACES SHALL REQUIRE ONE OR MORE MOUNTING SPACERS UNDER THE TOP MOUNTING BRACKET(S) AS REQUIRED, TO PLUMB THE SIGNAL FACE.

(6) CAST ALUMINUM TRANSFORMER BASE, WHEN REQUIRED. UNDER MAX LOADING, TYPE 3 POLE SHALL BE MOUNTED DIRECTLY TO ITS CONCRETE BASE.

(7) USE 1 ½" ID NIPPLES ZINC-COATED RIGID METAL CONDUIT, LONG ENOUGH TO ACCOMMODATE FULL DEPTH THREADING INTO THE HEAD MOUNTING LOCK NUT IN ORDER TO TIGHTEN THE FACE, BUT THAT DO NOT INTERFERE WITH REFLECTOR CLOSURE. THREAD THE NIPPLE INTO THE MOUNTING BRACKET/ELBOW UNTIL TIGHT. USE APPROVED PINNACLE TYPE HARDWARE FROM A DEPARTMENT APPROVED MANUFACTURER TO CLOSE THE UNUSED 1 ½" OPENING IN SIGNAL FACES AND BRACKET ENDS.

(8) VERTICAL STRUT (ADJUSTABLE). ONE (1) SET SCREW (¼" X ¾" - 20 TPI STAINLESS STEEL, HEX HEAD) INTO EACH ARM MEMBER IF STRUT IS THE SLIDING TYPE.

(9) FURNISH AND INSTALL VENTILATED, CAST METALLIC (ALUMINUM ALLOY) CAPS. FASTEN CAPS WITH ONE (1) ¼" X ¾" - 20 TPI STAINLESS STEEL, HEX HEAD BOLT.

(10) SHIMMING, IF NEEDED, SHALL BE LOCATED BETWEEN THE CONCRETE FOUNDATION AND POLE.

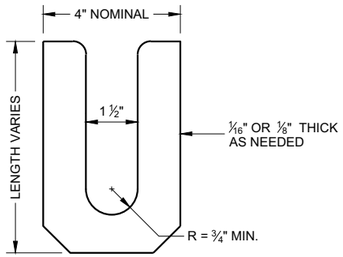
(11) USE SERRATED LOCK WASHERS WITH NOTCHES BETWEEN END TEE AND SIGNAL HEAD.

POLE MOUNTINGS FOR TRAFFIC SIGNALS AND LIGHTING UNITS TYPE 3 (HEAVY DUTY)

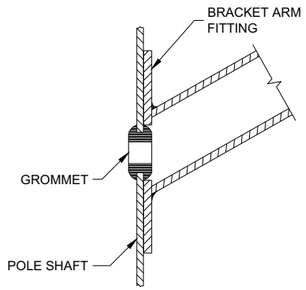
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

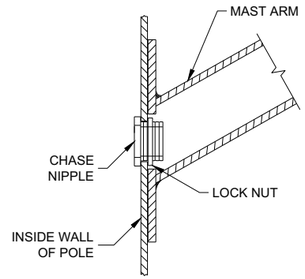
SDD 09E01 - 15b



LEVELING SHIM (1)
SHALL BE ALUMINUM



TYPICAL APPLICATION OF GROMMET IN POLE SHAFT



TYPICAL APPLICATION OF CHASE NIPPLE IN POLE SHAFT

GENERAL NOTES

CLAMP BOLT-NUT TIGHTENING TORQUE SHALL BE INDICATED BY INDENT STAMPING (1/2 INCH NUMERALS AND LETTERS) OR WEATHERPROOF PRINTING ON THE INSIDE OF THE CLAMP THAT IS WELDED TO THE ARM MEMBER.

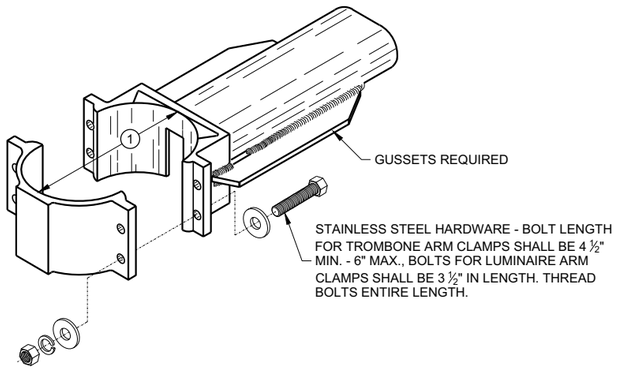
(1) 4.5" I.D. FOR LUMINAIRE MAST ARM CLAMP. 6.625" I.D. FOR TROMBONE MAST ARM CLAMP.

(2) INDIVIDUAL BASE PLATE ANCHOR ROD COVERS. (4 REQUIRED)

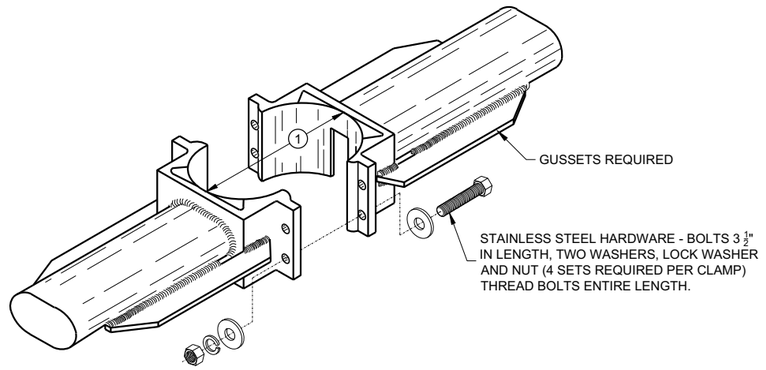
(3) BASE PLATE SLOTTED TO ACCEPT 11" THROUGH 12" BOLT CIRCLE USING 1" DIAMETER ANCHOR RODS.

(4) LEVELING SHIMS, DESIGNED FOR THE PURPOSE, SHALL BE USED WHEN PLUMBING POLES. THE USE OF WASHERS IN LIEU OF PROPER LEVELING SHIMS IS NOT ACCEPTABLE. LEVELING SHIMS SHALL BE USED ONLY BETWEEN THE TOP OF THE CONCRETE BASE AND A METALLIC BASE PLATE.

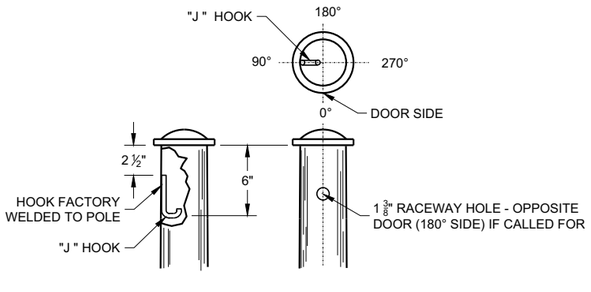
SHIMS SHALL BE LONG ENOUGH AND WIDE ENOUGH TO COMPLETELY COVER THE AREA UNDER THE LENGTH AND WIDTH OF THE BASE MOUNTING FLANGE.



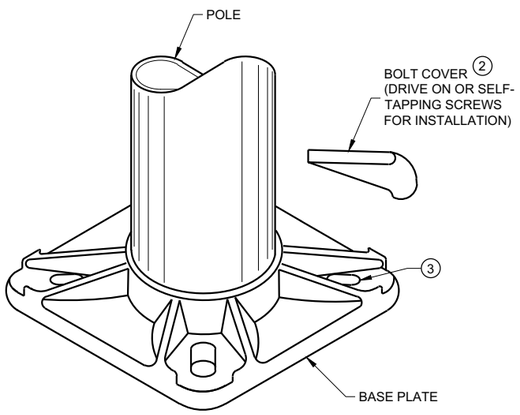
TYPICAL TROMBONE MAST ARM AND SINGLE LUMINAIRE MAST ARM MOUNTING CLAMP



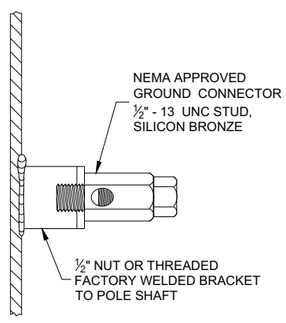
TYPICAL LUMINAIRE MAST ARM (DOUBLE) MOUNTING BRACKETS

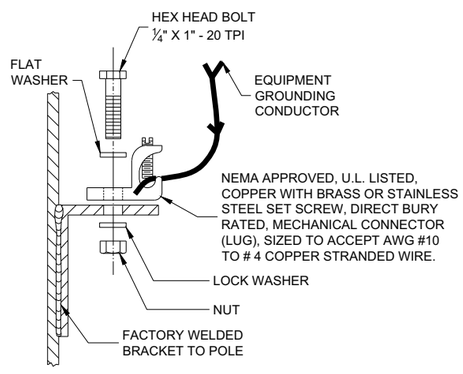


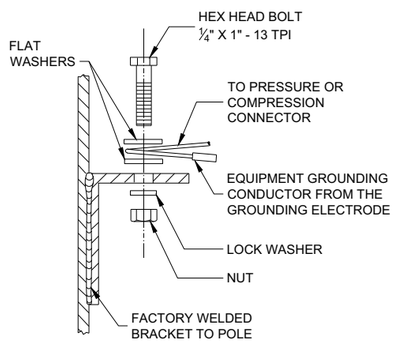
TYPICAL "J" HOOK LOCATION



BASE PLATE







TYPICAL GROUNDING CONNECTIONS
NUT, BOLT AND WASHERS SHALL BE STAINLESS STEEL

HARDWARE DETAILS FOR POLE MOUNTING

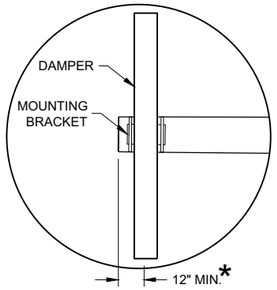
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2018
DATE

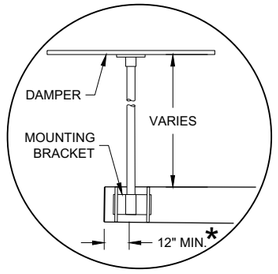
/S/ Ahmet Demirbilek
STATE ELECTRICAL ENGI 292

FHWA

6
SDD 09E01 - 15g

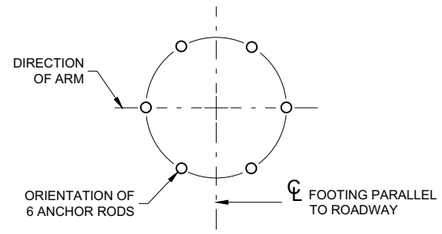


DUMBBELL VIBRATION DAMPER

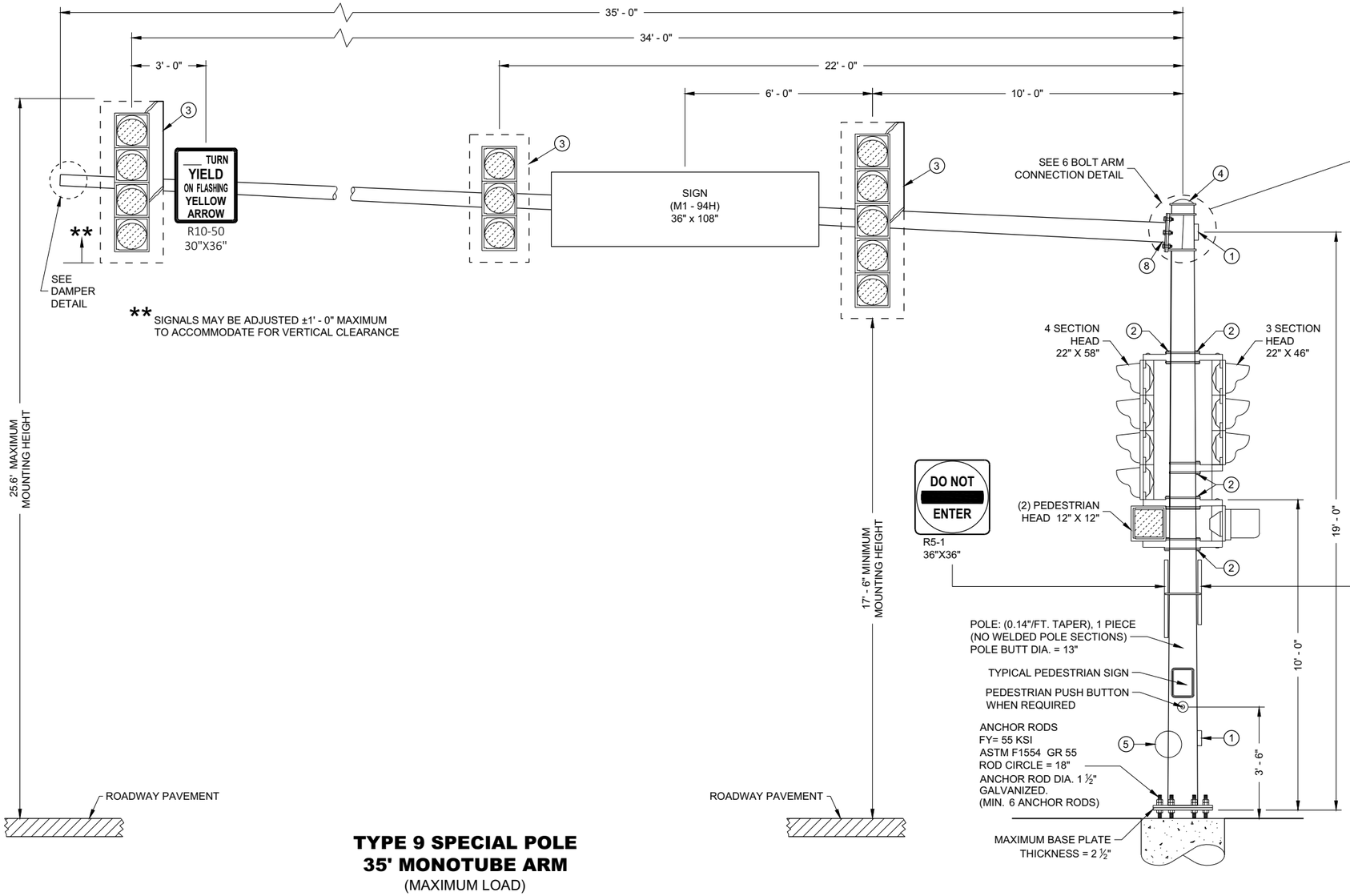


FLAT VIBRATION DAMPER

* MOUNT AS CLOSE TO END OF MAST ARM FOR MAXIMUM DAMPING PER MANUFACTURER'S RECOMMENDATIONS.

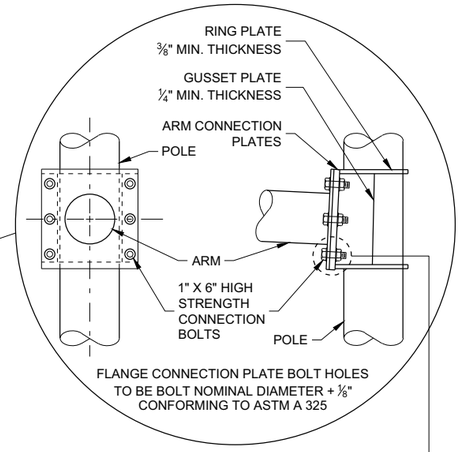


ANCHOR ROD LOCATION

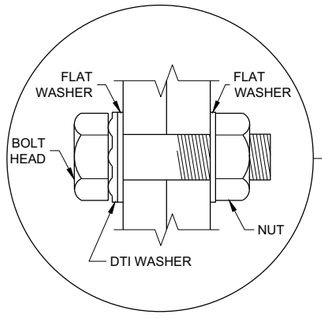


** SIGNALS MAY BE ADJUSTED ±1' - 0" MAXIMUM TO ACCOMMODATE FOR VERTICAL CLEARANCE

TYPE 9 SPECIAL POLE
35' MONOTUBE ARM
(MAXIMUM LOAD)



6 BOLT ARM CONNECTION DETAIL



RECOMMENDED BOLT ASSEMBLY DETAIL

TYPE 9 SPECIAL POLE
35' MONOTUBE ARM

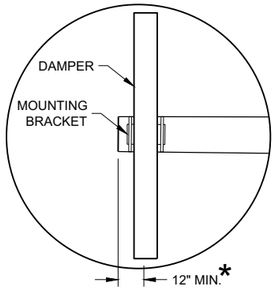
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
August 2020
DATE

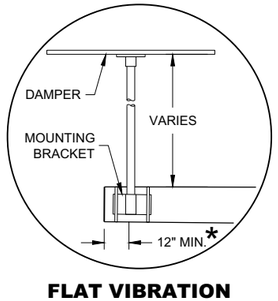
/S/ Ahmet Demirbilek
STATE ELECTRICAL ENGI 293

FHWA

6
SDD 09E08 - 09b

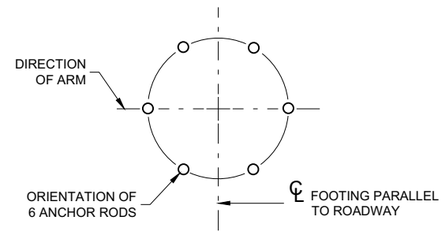


DUMBBELL VIBRATION DAMPER

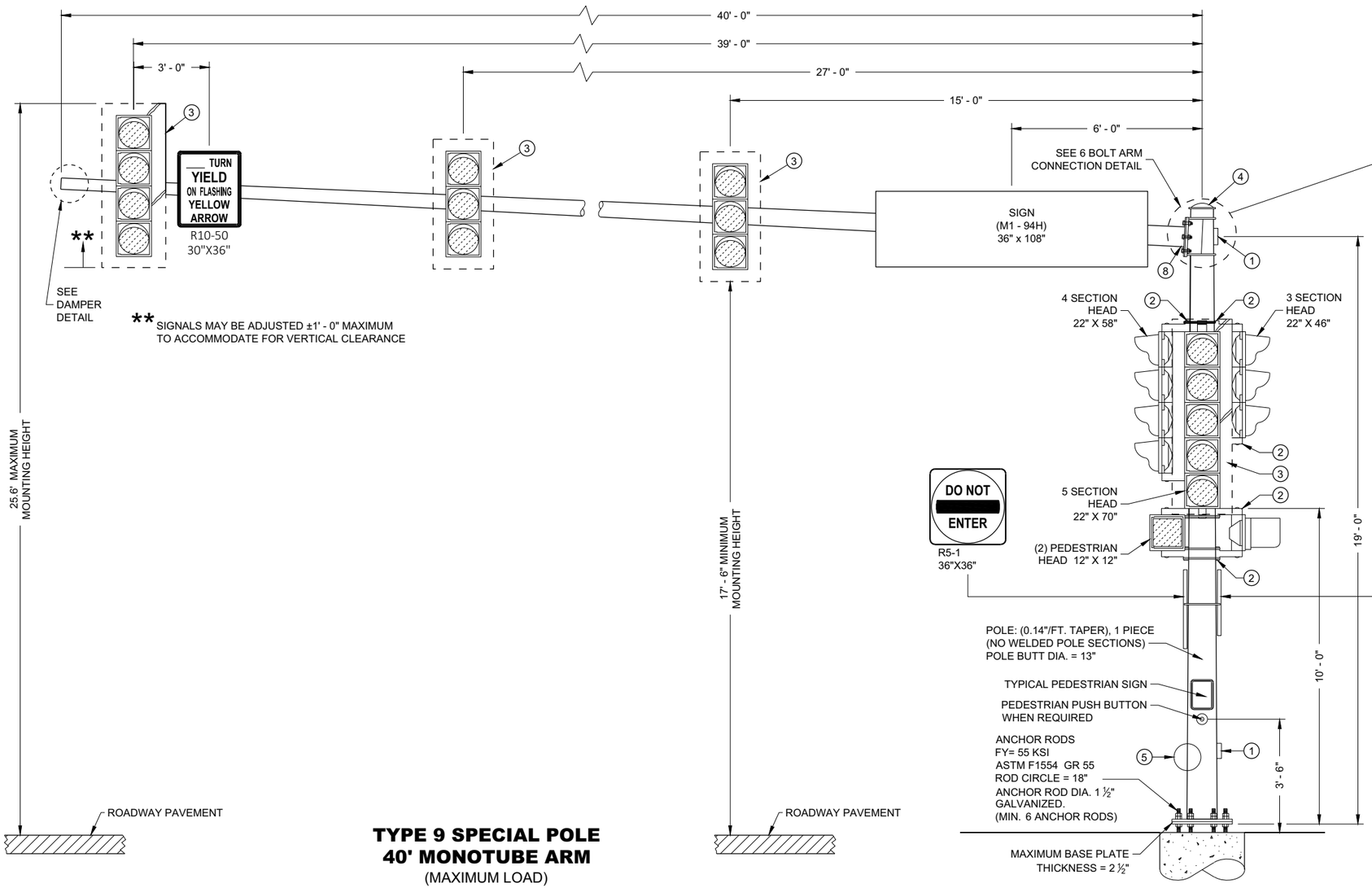


FLAT VIBRATION DAMPER

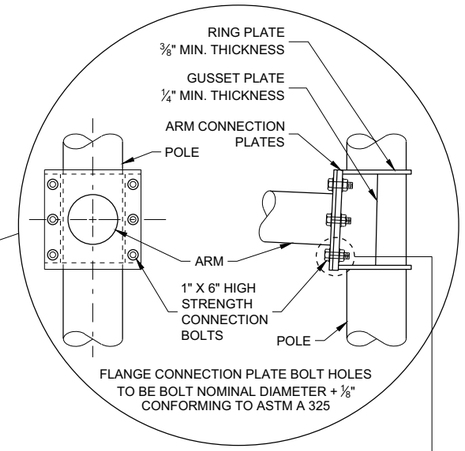
* MOUNT AS CLOSE TO END OF MAST ARM FOR MAXIMUM DAMPING PER MANUFACTURER'S RECOMMENDATIONS.



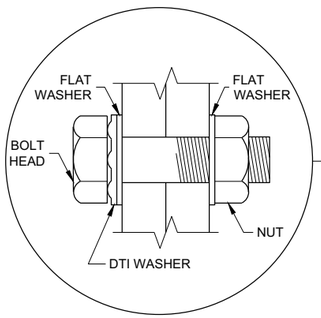
ANCHOR ROD LOCATION



TYPE 9 SPECIAL POLE 40' MONOTUBE ARM
(MAXIMUM LOAD)



6 BOLT ARM CONNECTION DETAIL



RECOMMENDED BOLT ASSEMBLY DETAIL

TYPE 9 SPECIAL POLE 40' MONOTUBE ARM

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

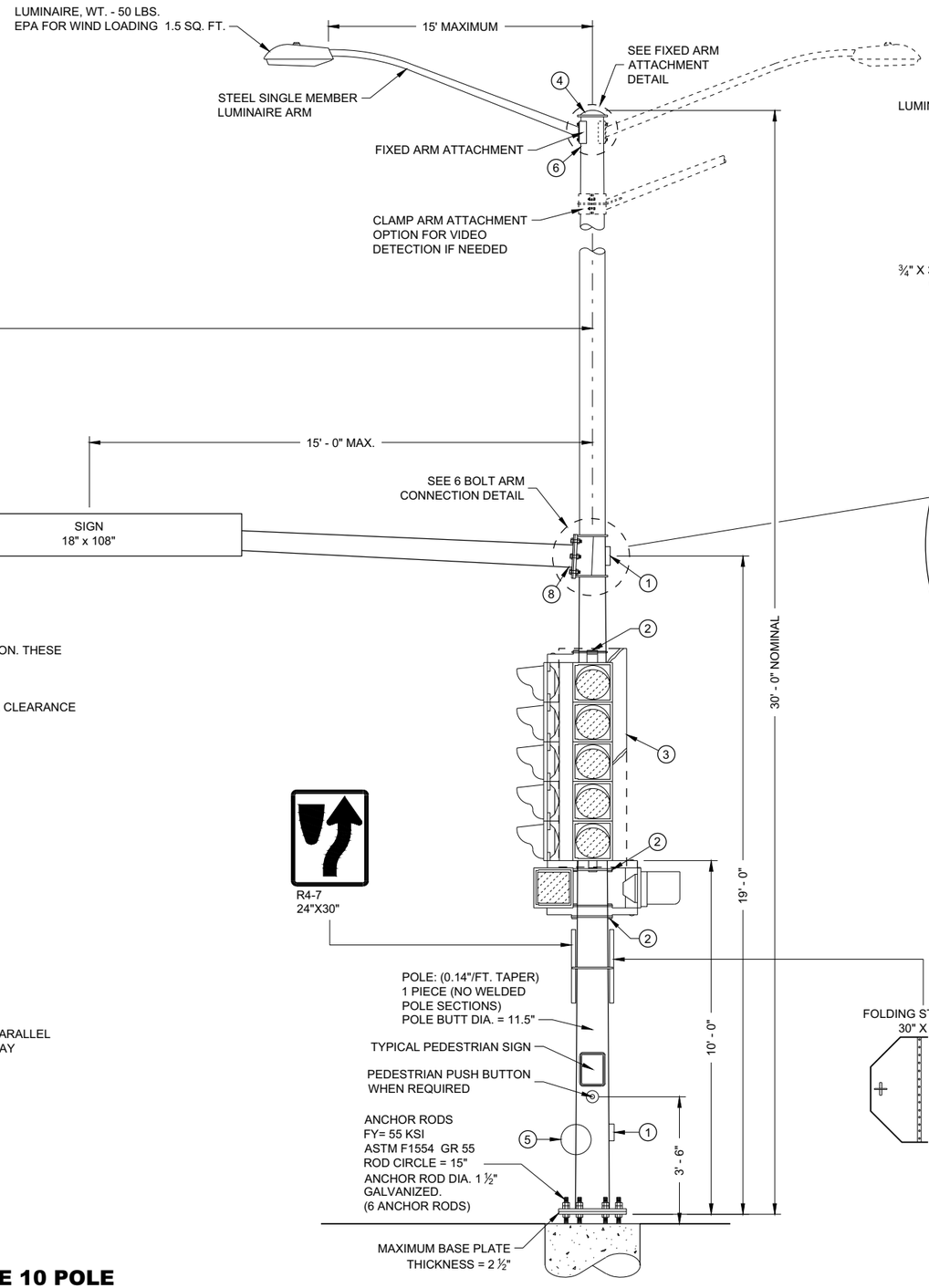
APPROVED
August 2020
DATE

/S/ Ahmet Demirbilek
STATE ELECTRICAL ENGI

FHWA

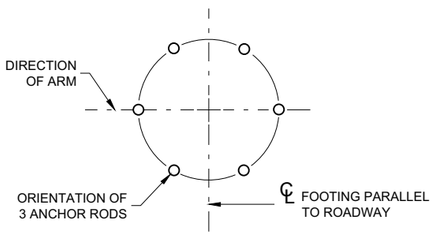
6

SDD 09E08 - 09c

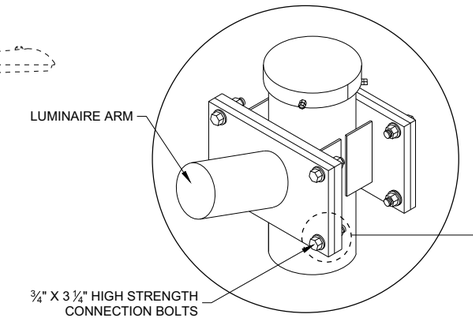


* DIMENSIONS SHOWN ARE FOR POLE/ARM DESIGN ONLY, NOT FOR FIELD LOCATION. THESE DIMENSIONS SHALL NOT BE DECREASED.

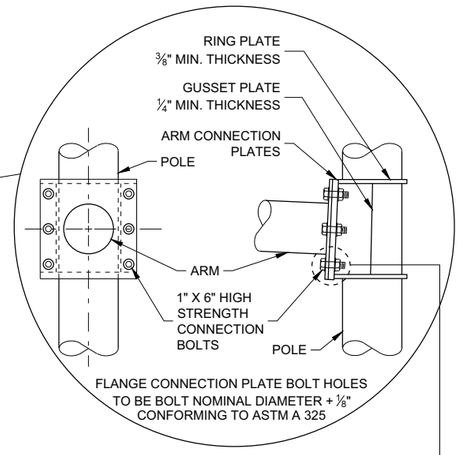
** SIGNALS MAY BE ADJUSTED ±1' - 0" MAXIMUM TO ACCOMMODATE FOR VERTICAL CLEARANCE



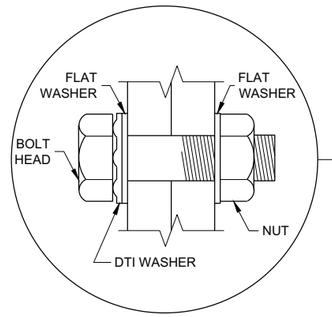
ANCHOR ROD LOCATION



FIXED ARM ATTACHMENT DETAIL



6 BOLT ARM CONNECTION DETAIL



RECOMMENDED BOLT ASSEMBLY DETAIL

TYPE 10 POLE
15' - 30' MONOTUBE ARM
(MAXIMUM LOAD)

TYPE 10 POLE
15' - 30' MONOTUBE ARM

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

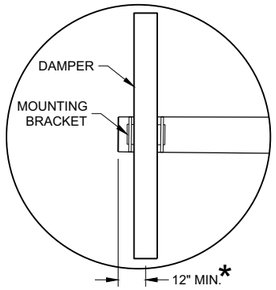
APPROVED
August 2020
DATE

/S/ Ahmet Demirbilek
STATE ELECTRICAL ENGI

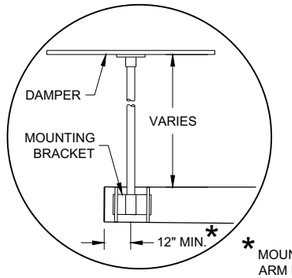
FHWA

6

SDD 09E08 - 09e

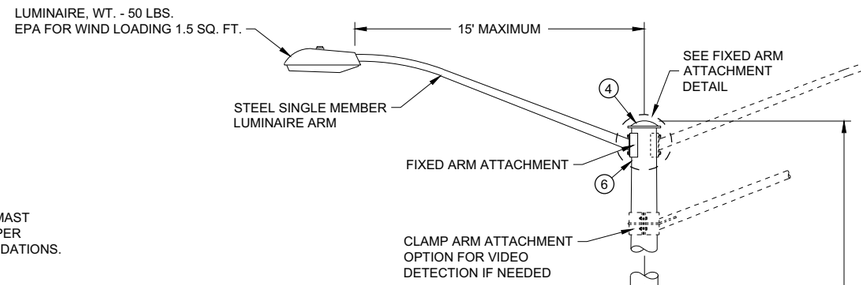


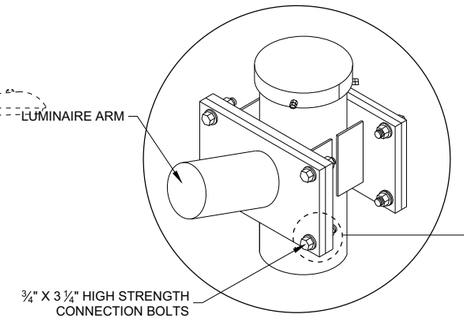
DUMBBELL VIBRATION DAMPER



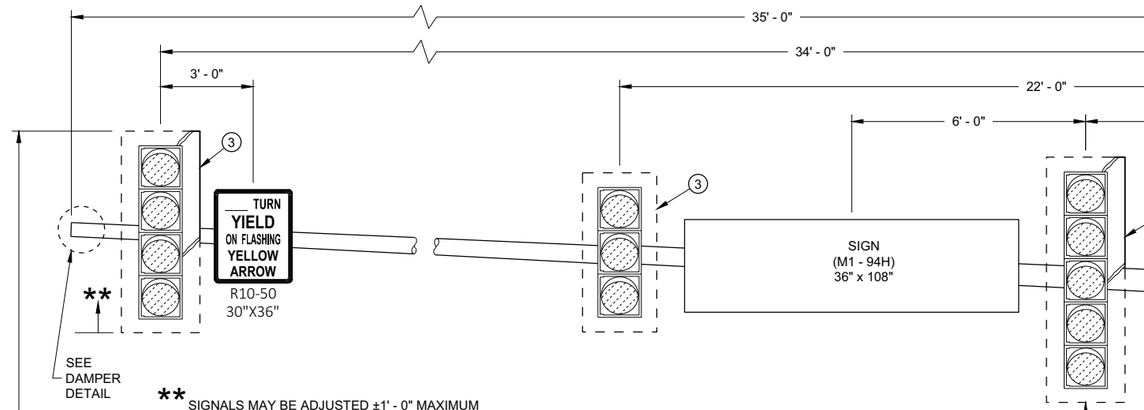
FLAT VIBRATION DAMPER

* MOUNT AS CLOSE TO END OF MAST ARM FOR MAXIMUM DAMPING PER MANUFACTURER'S RECOMMENDATIONS.

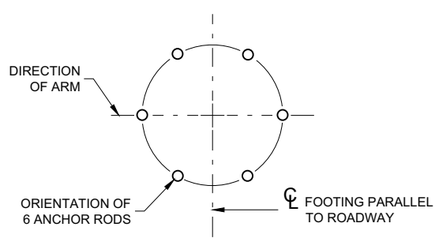




FIXED ARM ATTACHMENT DETAIL

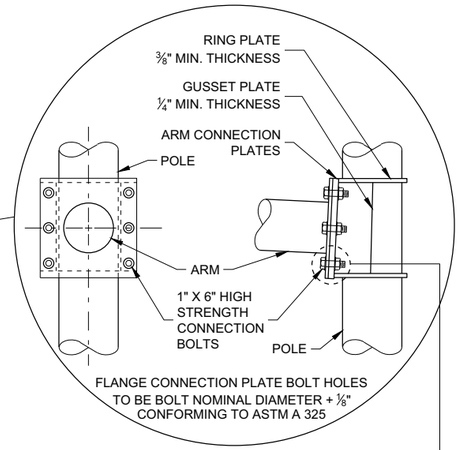


** SIGNALS MAY BE ADJUSTED ±1' - 0" MAXIMUM TO ACCOMMODATE FOR VERTICAL CLEARANCE

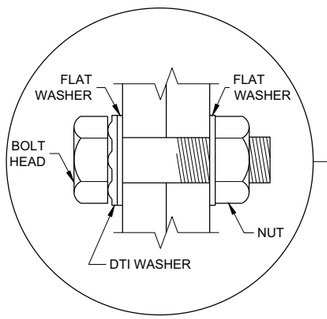


ANCHOR ROD LOCATION

TYPE 10 SPECIAL POLE
35' MONOTUBE ARM
(MAXIMUM LOAD)



6 BOLT ARM CONNECTION DETAIL



RECOMMENDED BOLT ASSEMBLY DETAIL

TYPE 10 SPECIAL POLE
35' MONOTUBE ARM

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

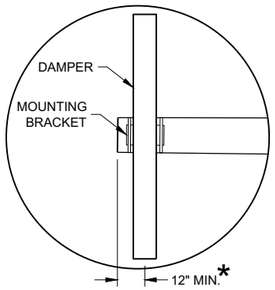
APPROVED
August 2020
DATE

/S/ Ahmet Demirbilek
STATE ELECTRICAL ENGI

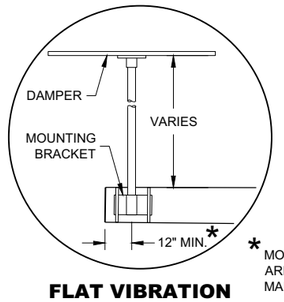
FHWA

6

SDD 09E08 - 09f

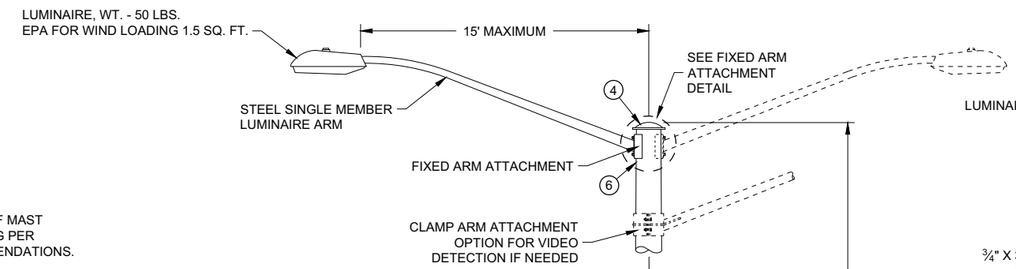


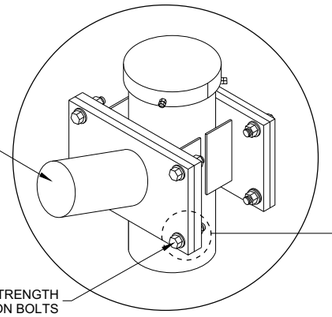
DUMBBELL VIBRATION DAMPER



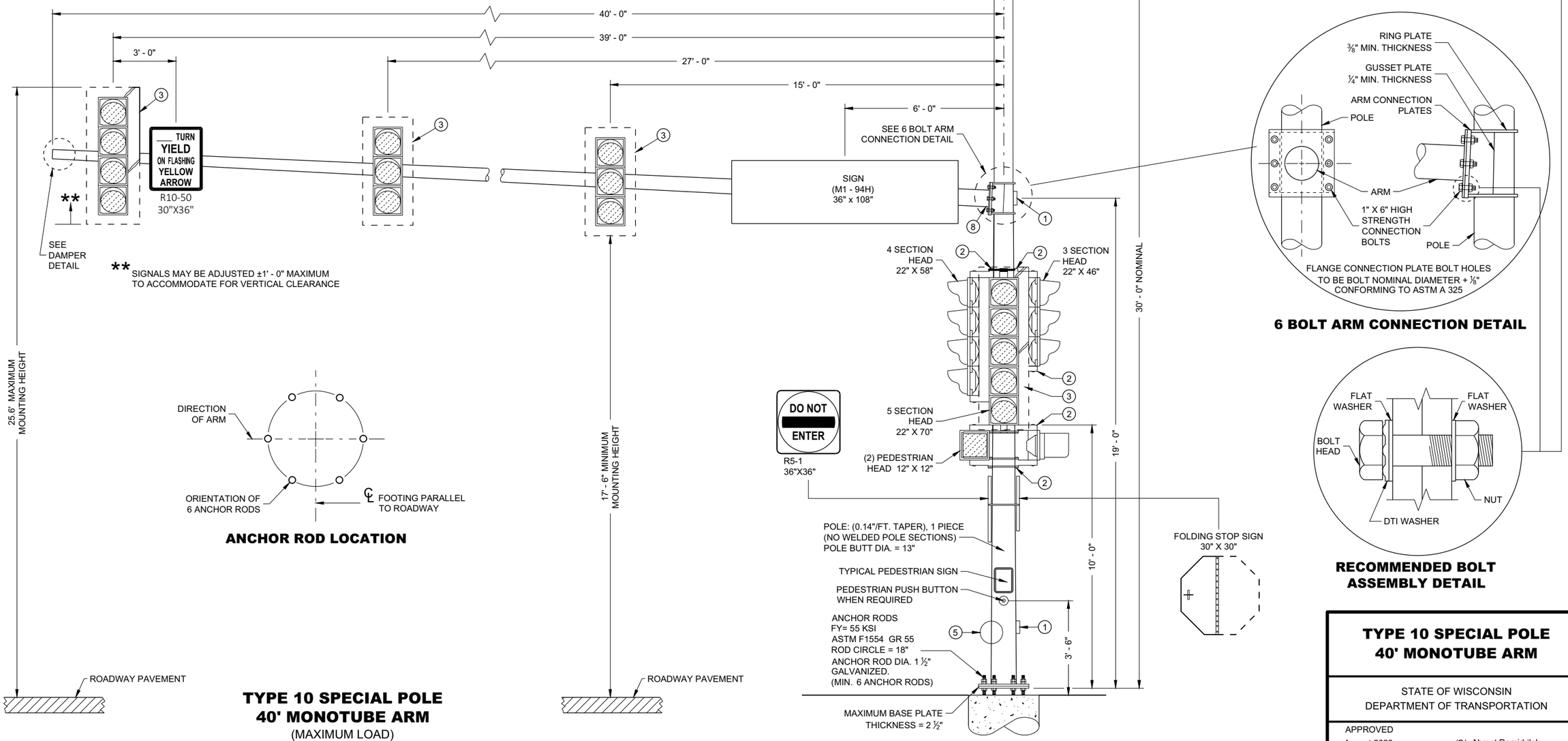
FLAT VIBRATION DAMPER

* MOUNT AS CLOSE TO END OF MAST ARM FOR MAXIMUM DAMPING PER MANUFACTURER'S RECOMMENDATIONS.





FIXED ARM ATTACHMENT DETAIL



** SIGNALS MAY BE ADJUSTED ±1' - 0" MAXIMUM TO ACCOMMODATE FOR VERTICAL CLEARANCE

ANCHOR ROD LOCATION

TYPE 10 SPECIAL POLE
40' MONOTUBE ARM
(MAXIMUM LOAD)

6 BOLT ARM CONNECTION DETAIL

RECOMMENDED BOLT ASSEMBLY DETAIL

TYPE 10 SPECIAL POLE
40' MONOTUBE ARM

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
August 2020
DATE

/S/ Ahmet Demirbilek
STATE ELECTRICAL ENGI 297

FHWA

6

SDD 09E08 - 09g

6

SDD 09E08 - 09g

GENERAL NOTES

DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

POLE TYPES 9 AND 10 ARE FOR ARM LENGTHS 15 FOOT TO 30 FOOT.

POLE TYPES 9 SPECIAL AND 10 SPECIAL ARE FOR ARM LENGTHS 35 FOOT, 40 FOOT, AND 45 FOOT.

POLE TYPES 12 AND 13 ARE FOR ARM LENGTHS 35 FOOT TO 55 FOOT.

MONOTUBE POLES AND ARMS SHALL BE GALVANIZED STEEL.

RING STIFFENED BUILT UP BOX TYPE OF ATTACHMENT FOR TRAFFIC SIGNAL ARM.

ONE PIECE POLE CONSTRUCTION (NO WELDED POLE SECTIONS).

STANDARD STRAIGHT ARM DESIGN (3% ± RISE).

SECTION 657, POLES OF THE STANDARD SPECIFICATION SHALL APPLY TO THIS DRAWING.

PROVIDE WIREWAY THRU POLE WALL AND ARM CONNECTION PLATES. PROVIDE ROUND, SMOOTH INSIDE SURFACE.

MANUFACTURER'S SUBMITTED POLE DESIGNS AND DRAWINGS SHALL BE SIGNED AND STAMPED BY A REGISTERED PROFESSIONAL ENGINEER AND CERTIFIED AS BEING IN COMPLIANCE WITH THE AASHTO "LRFD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNAL 2015 1ST EDITION (INCLUDING INTERIM REVISIONS)" AND ALL PERTINENT WISDOT SPECIFICATIONS AND DRAWINGS FOR THE LIGHTING STRUCTURES AS FOLLOWS:

CATEGORY III FATIGUE LOADS OF GALLOPING, TRUCK GUSTS (AT 45 MPH VEHICLE VELOCITY) AND NATURAL WIND GUSTS FOR DESIGN OF TYPE 9 AND TYPE 10 STRUCTURES.

CATEGORY II FATIGUE LOADS OF TRUCK GUSTS (AT 45 MPH VEHICLE VELOCITY) AND NATURAL WIND GUSTS FOR DESIGN OF TYPE 9 SPECIAL AND TYPE 10 SPECIAL STRUCTURES. IN LIEU OF DESIGNING FOR GALLOPING, A VIBRATION DAMPER MITIGATION DEVICE IS REQUIRED TO BE SUPPLIED AND INSTALLED AT THE END OF THE MAST ARM.

CATEGORY II FATIGUE FATIGUE LOADS OF GALLOPING, TRUCK GUSTS (AT 45 MPH VEHICLE VELOCITY) AND NATURAL WIND GUSTS FOR DESIGN OF TYPE12 AND TYPE 13 STRUCTURES.

115 MPH (700 YEAR MRI BASIC WIND SPEED).

SECURE THE OPENING BELOW THE BASE PLATE WITH STAINLESS STEEL OR GALVANIZED STEEL MESH AND SECURE THE MESH WITH ¾" STAINLESS STEEL BANDING AROUND THE LEVELING NUTS.

INDENT PRINT (NOMINAL ½" HIGH) THE POLE LENGTH AND FIRST TWO LETTERS OF THE MANUFACTURERS NAME ON TWO SIDES OF THE BASE PLATE 180 DEGREES APART, BEFORE GALVANIZING. THE ARM SHALL BE IDENTIFIED WITH THE SAME INFORMATION BY INDENT PRINT.

SIGNAL FACE SHALL BE MOUNTED 6 INCHES (NOMINAL) FROM THE END OF THE MONOTUBE ARM OR AS SHOWN ON THE PLAN CONSTRUCTION DETAIL OR A S DIRECTED BY THE PROJECT ENGINEER/ELECTRICAL OPERATIONS PERSONNEL. MOUNT ALL LIKE HEAD AT SAME ELEVATION.

SIGN MOUNTING BRACKETS SHALL BE FURNISHED IN ACCORDANCE WITH SECTION 637 OF THE STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION.

(1) DESIGN FOR MAXIMUM ALLOWABLE HAND HOLE WITH COVER ASSEMBLY WITH TWO ¼" X ¾" - 20 TPI STAINLESS STEEL HEX HEAD BOLTS.

(2) SIGNAL MOUNTING BRACKETS FOR POLE MOUNTING, MOUNT WITH CAP SCREW AND BANDING (SEE SPECIFICATION SECTION 658).

(3) SECURELY MOUNT BACK PLATES, PROJECTING 5" BEYOND ALL SIDES OF THE SIGNAL FACE HOUSING, PER MANUFACTURERS RECOMMENDATIONS.

(4) THE TOP OF THE POLE SHAFT AND THE MONOTUBE ARM SHALL BE EQUIPPED WITH A REMOVABLE, VENTILATED CAP HELD SECURELY IN PLACE WITH SET SCREWS.

(5) FACTORY WELDED BRACKET FOR GROUNDING LUG, OPPOSITE HAND HOLD, (LUG AND HARDWARE PAID UNDER SEPARATE ITEM). PROVIDE HOLE IN BRACKET FOR ¼" X ¾" - 20 TPI STAINLESS STEEL HEX HEAD BOLT.

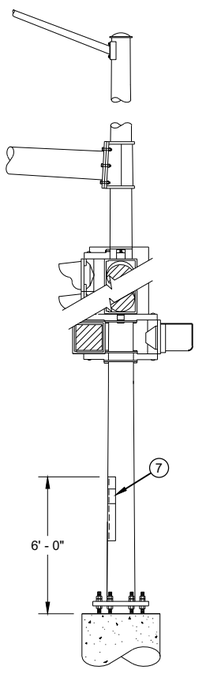
(6) FACTORY WELDED "J" HOOK FOR STRAIN RELIEF FOR POLE LUMINAIRE WIRE.

(7) INSTALL STRUCTURAL IDENTIFICATION PLAQUES.

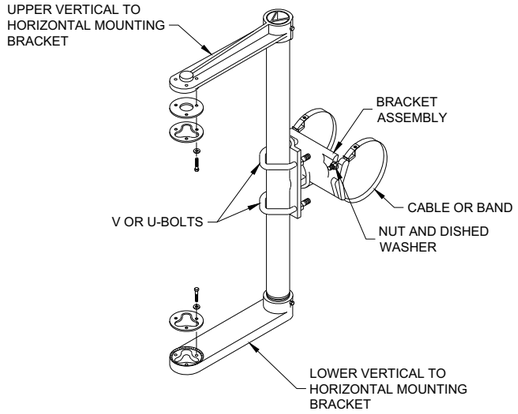
STRUCTURAL IDENTIFICATION PLAQUES SHALL BE PLACED ON THE POLES IN THE SAME DIRECTION AS THE ARM.

MOUNTING HEIGHT SHALL BE 6' - 0" ABOVE THE CURB OR SHOULDER. ADJUST IF IT IS KNOWN THAT REQUIRED TRAFFIC SIGNS WILL BE OBSTRUCTED.

(8) FACTORY DRILLED ½" DRAIN HOLE 2" FROM FLANGE CONNECTION PLATE.

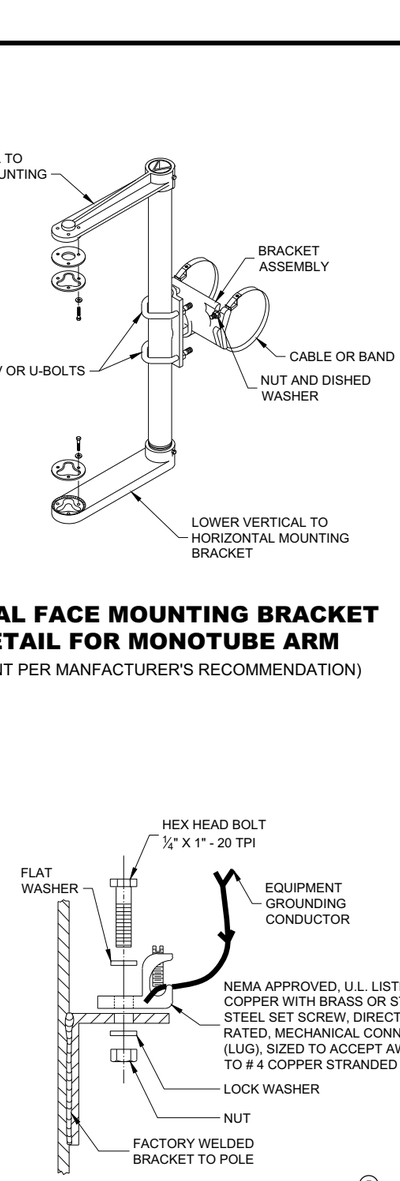


STRUCTURAL IDENTIFICATION PLAQUE PLACEMENT



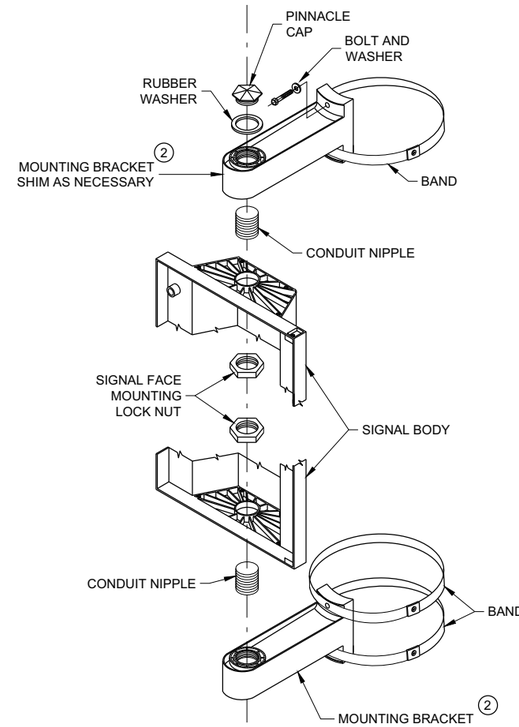
SIGNAL FACE MOUNTING BRACKET DETAIL FOR MONOTUBE ARM

(MOUNT PER MANFACTURER'S RECOMMENDATION)

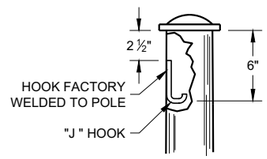


TYPICAL GROUNDING (5) CONNECTIONS

NUT, BOLT AND WASHERS SHALL BE STAINLESS STEEL



SIGNAL FACE VERTICAL MOUNTING DETAIL



TYPICAL "J" HOOK (6) WIRE SUPPORT

GENERAL NOTES AND HARDWARE FOR TYPES 9,10, 9/10 SPECIAL, 12 AND 13 POLES WITH MONOTUBE ARMS

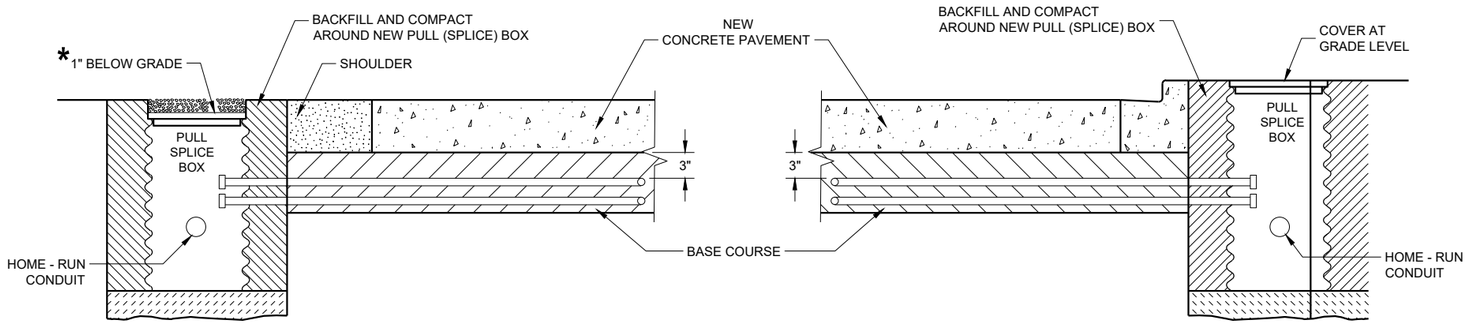
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
August 2020 — DATE
/S/ Ahmet Demirbilek — STATE ELECTRICAL ENGINEER

FHWA

6

SDD 09E08 - 09k



SECTION A - A
NO CURB AND GUTTER

SECTION B - B
CURB AND GUTTER

* RECESS PULL (SPLICE) BOX SO THAT THE COVER IS 3" BELOW GRADE IN SHOULDER AREAS OF CRUSHED AGGREGATE. BACKFILL OVER COVER WITH THE CRUSHED AGGREGATE TO BRING THE AREA TO GRADE LEVEL.

LOOP DETECTOR INSTALLATION DETAIL

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

PITCH LEAD OUT CONDUIT TO DRAIN TO ROADSIDE PULL (SPLICE) BOX.

LOOP SIZE, LOCATION, NUMBER OF TURNS OF WIRE AND ASSOCIATED SIGNAL PHASE SHALL BE AS SHOWN ON THE PLANS.

SPLICES SHALL BE INSTALLED BY USING CAST IN PLACE SPLICE KITS LISTED ON THE DEPARTMENTS APPROVED PRODUCTS LIST OR AN ENGINEER APPROVED EQUAL. NON-INSULATED BUTT SPLICES TO FIT #12 AWG STRANDED WIRE SHALL BE USED. SPLICES SHALL BE SOLDERED AND INSULATED FROM EACH OTHER AS PER INSTRUCTIONS INCLUDED IN THE SPLICE KIT.

MEASURE GROUND RESISTANCE USING A MEGGER. REPLACE LOOP WIRE NOT ATTAINING A READING OF INFINITY TO GROUND.

AFTER SPLICING THE LOOP WIRE TO THE LOOP LEAD-IN CABLE, THE CONTRACTOR SHALL MEASURE INDUCTANCE, GROUND RESISTANCE AND WIRE RESISTANCE AT THE CABINET END OF THE LEAD-IN CABLE AND FURNISH A COPY OF THE READING TO THE PROJECT ENGINEER FOR EVALUATION.

LOOP DETECTOR LEADS SHALL BE IDENTIFIED WITH THEIR ASSOCIATED LOOP BY USE OF WATERPROOF TAGS AT BOTH ENDS OF THE CABLE. A LISTING OF THE CABLE IDENTIFICATION PER INDIVIDUAL LOOP LEAD-IN SHALL BE PLACED IN THE CABINET.

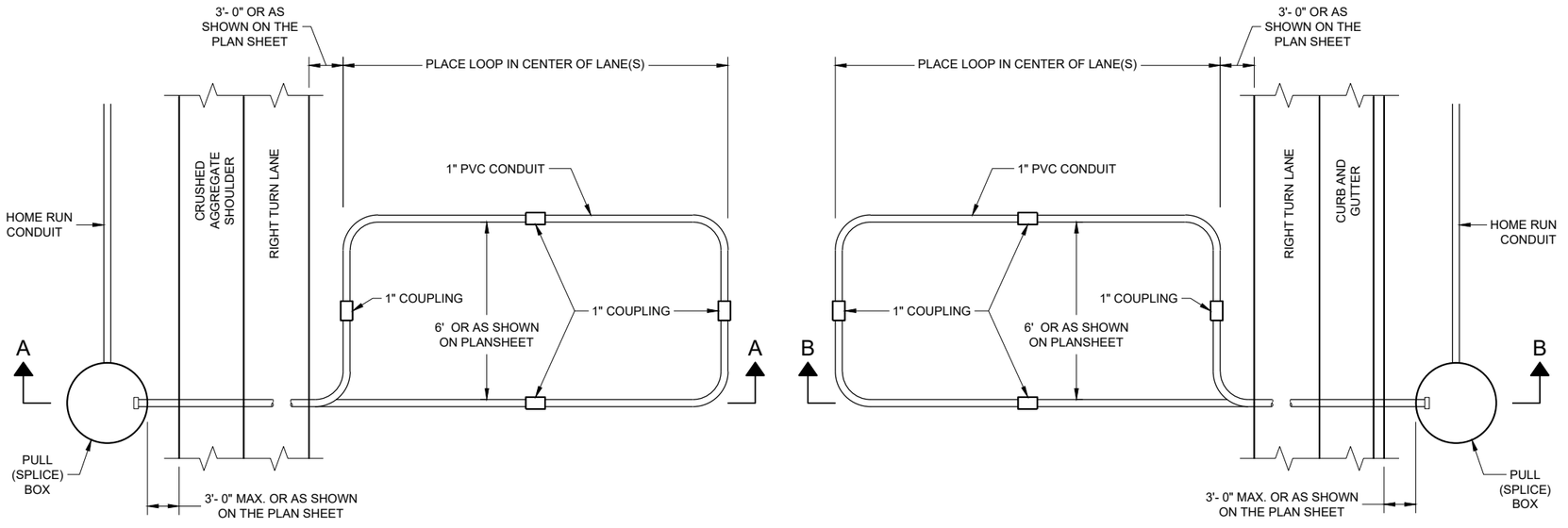
THE #12 AWG LOOP WIRE IN THE PULL (SPLICE) BOX SHALL BE HAND TWISTED AT LEAST 3 TWISTS PER FOOT BEFORE BEING SPLICED TO THE LOOP LEAD-IN CABLE.

SPLICES OF LOOP WIRE TO LEAD-IN CABLE SHALL BE MADE ONLY IN PULL (SPLICE) BOXES AT THE SIDE OF THE ROAD.

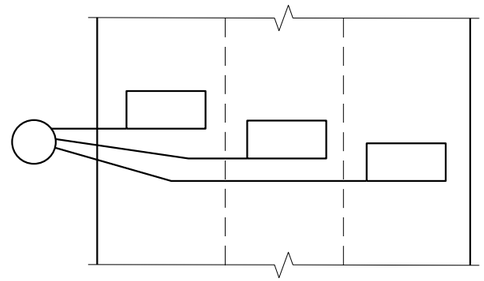
THE #12 AWG LOOP WIRE SHALL BE INSTALLED FROM THE ROADSIDE PULL (SPLICE) BOX, THROUGH THE LOOP CONDUIT, BACK TO THE ROADSIDE PULL (SPLICE) BOX, AND BE INSTALLED IN ONE NON-SPLICED, CONTINUOUS LENGTH.

PROTECTION OF THE CONDUIT IN THE BASE COURSE SHALL BE REQUIRED AFTER INSTALLATION AND BEFORE NEW PAVEMENT IS INSTALLED.

SHOULD INSTALLATION REPAIR BE REQUIRED, IT SHALL BE DONE UNDER THE DIRECTION OF THE PROJECT ENGINEER.



TYPICAL PLAN LOOP DETECTOR WITH 24" PULL (SPLICE) BOX



MULTI-LANE INSTALLATION

LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
September 2014
DATE
/S/ Ahmet Demirbilek
STATE ELECTRICAL ENGI

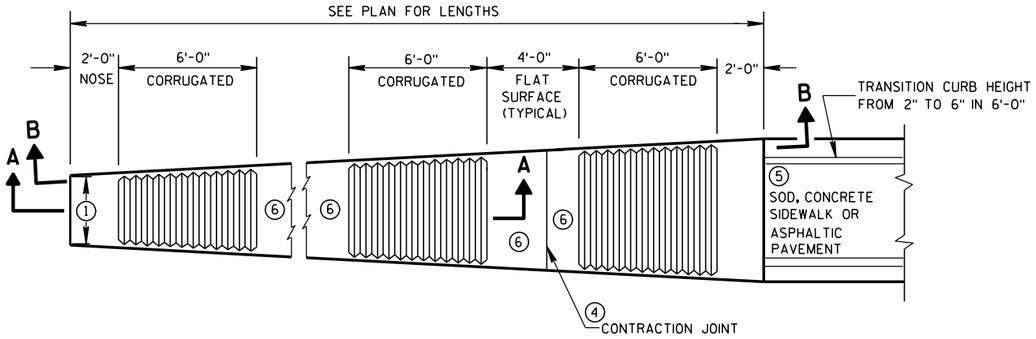
FHWA

6

SDD 09F15 - 04b

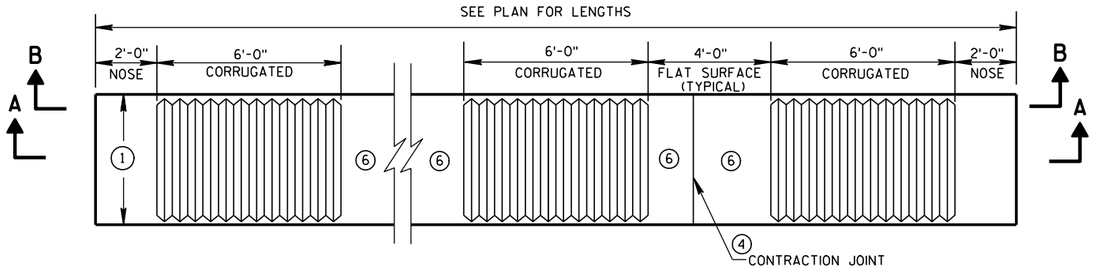
6

SDD 09F15 - 04b



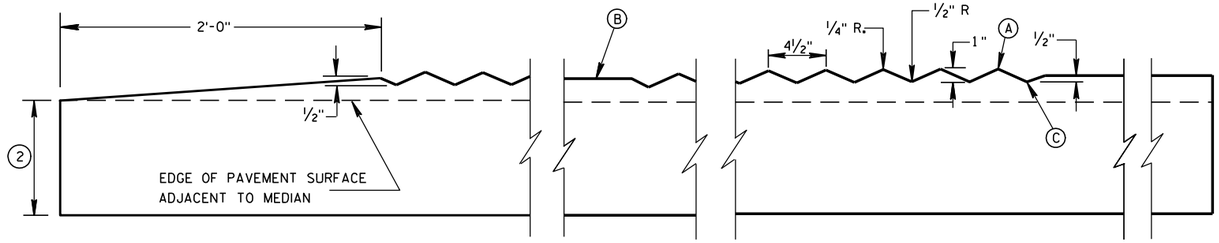
PLAN VIEW

VARIABLE WIDTH CONCRETE CORRUGATED MEDIAN



PLAN VIEW

UNIFORM WIDTH CONCRETE CORRUGATED MEDIAN



SECTION A-A

LONGITUDINAL SECTION

GENERAL NOTES

(1) SEE PLANS FOR CONSTANT OR VARIABLE WIDTH.

(2) THE DEPTH OF THE CONCRETE CORRUGATED MEDIAN SHALL BE 9-INCHES UNLESS SHOWN OTHERWISE IN THE PLAN.

ADJACENT PAVEMENT STRUCTURE DETAILS ARE SHOWN IN THE PLAN. TYPICAL OPTIONS ARE:

(1) NEW OR EXISTING CONCRETE PAVEMENT.

(2) ASPHALTIC CONCRETE OVER NEW OR EXISTING CONCRETE BASE COURSE, OR PAVEMENT.

(3) ASPHALTIC PAVEMENT OVER BASE AGGREGATE DENSE.

(3) TIE BARS OR PAVEMENT TIES REQUIRED IN NEW CONCRETE PAVEMENT OR CONCRETE BASE COURSE. TIE BARS SHALL BE NO. 4 X 2'-0" SPACED AT 2'-0" C-C.

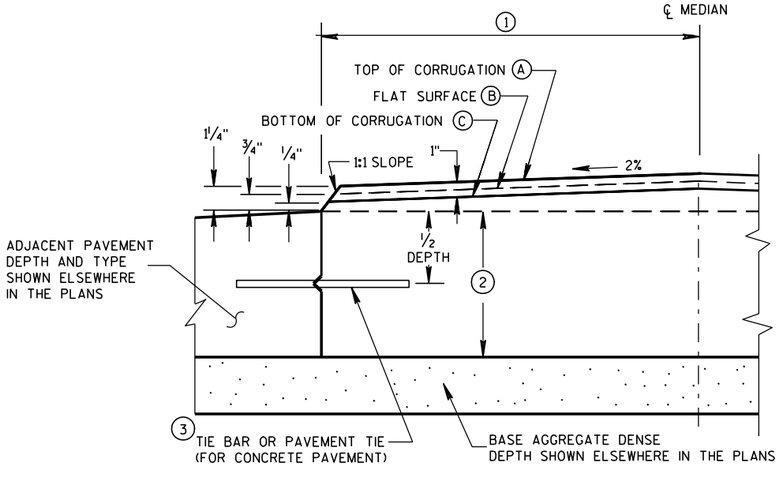
INSTALL TIE BARS TO MAINTAIN A MINIMUM OF 3-INCHES OF COVER BETWEEN THE TIE BAR AND THE CONCRETE SURFACE (BOTTOM AND TOP).

PAVEMENT TIES REQUIRED IN EXISTING CONCRETE PAVEMENT OR CONCRETE BASE COURSE, PAVEMENT TIES SHALL BE NO. 6 X 1'-0" SPACED AT 3'-0" C-C INSTALLED ON A HORIZONTAL SKEW OF 6:1. THE DIRECTION OF SKEW SHALL ALTERNATE AFTER EVERY ONE OR TWO BARS.

(4) CONCRETE CORRUGATED MEDIAN CONTRACTION JOINTS SHALL BE CONSTRUCTED TO MATCH THE JOINTS IN ADJACENT CONCRETE PAVEMENT. WHERE ADJACENT PAVEMENT IS ASPHALT WITH BASE AGGREGATE DENSE. TRANSVERSE CONTRACTION JOINTS SHALL BE PROVIDED AT 20 FOOT INTERVALS.

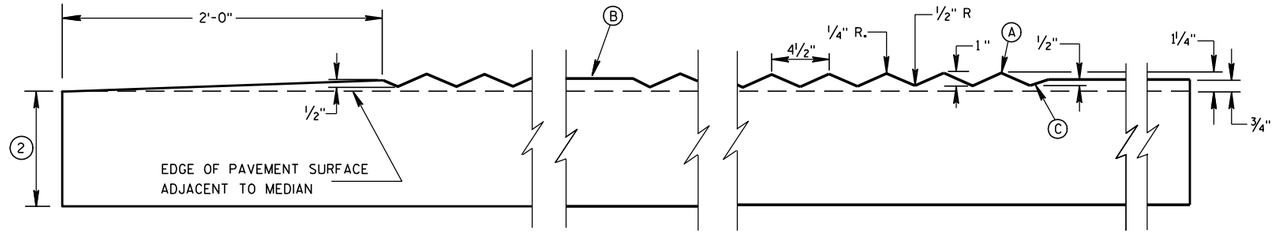
(5) SURFACE TYPE AND DETAILS ARE DEFINED ELSEWHERE IN THE PLAN.

(6) YELLOW MARKING ON FLAT SURFACE WHEN MEDIAN SEPARATES OPPOSING TRAFFIC.



HALF CROSS SECTION

(2) CONCRETE CORRUGATED MEDIAN AND ADJACENT PAVEMENT



SECTION B-B

LONGITUDINAL SECTION

CONCRETE CORRUGATED MEDIAN

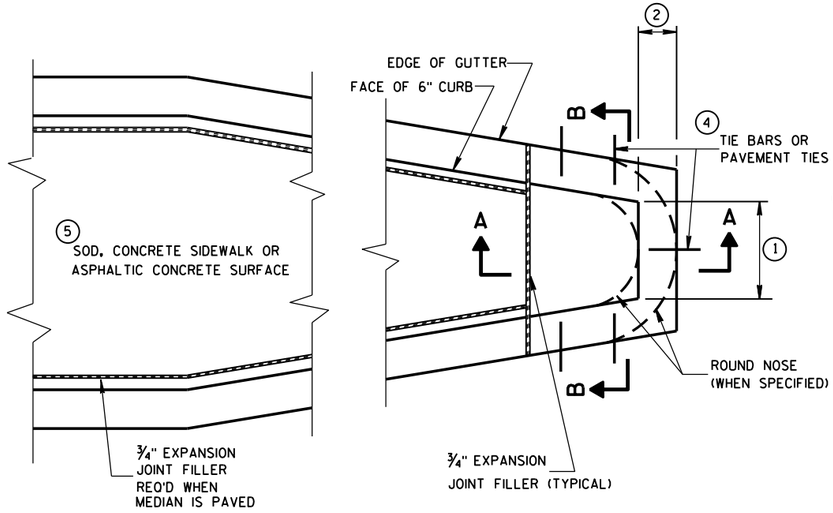
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

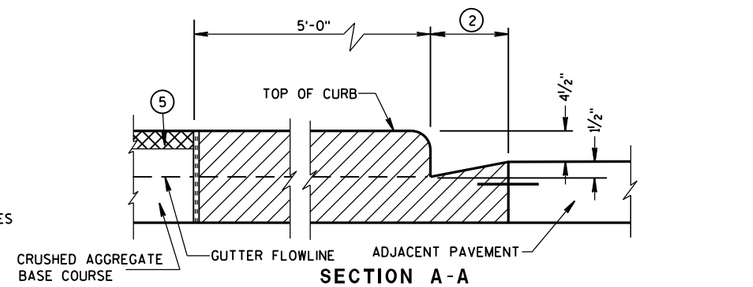
APPROVED

12/17/07
DATE

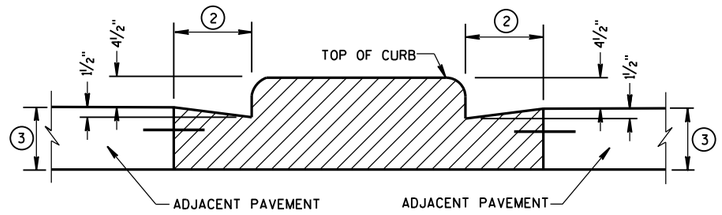
/S/ Jerry H. Zogg
ROADWAY STANDARDS DEVELOPMENT ENGINEER

FHWA





SECTION A-A



SECTION B-B

CONCRETE MEDIAN BLUNT NOSE DETAIL

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

(1) SEE PLAN FOR MEDIAN NOSE WIDTH AND RADIUS (FOR ROUND NOSE ALTERNATE).

(2) WIDTH OF GUTTER TO MATCH EXISTING ADJACENT GUTTER OR AS SPECIFIED ELSEWHERE IN THE PLAN.

(3) DEPTH EQUAL TO ADJACENT PAVEMENT. ADJACENT PAVEMENT STRUCTURE DETAILS ARE SHOWN ON THE PLAN. TYPICAL OPTIONS ARE:

(1) NEW OR EXISTING CONCRETE PAVEMENT.

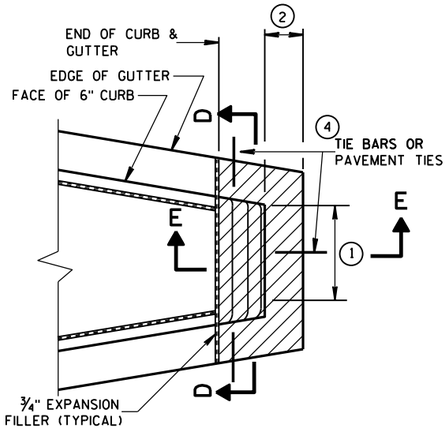
(2) ASPHALTIC CONCRETE PAVEMENT OVER NEW OR EXISTING CONCRETE BASE COURSE.

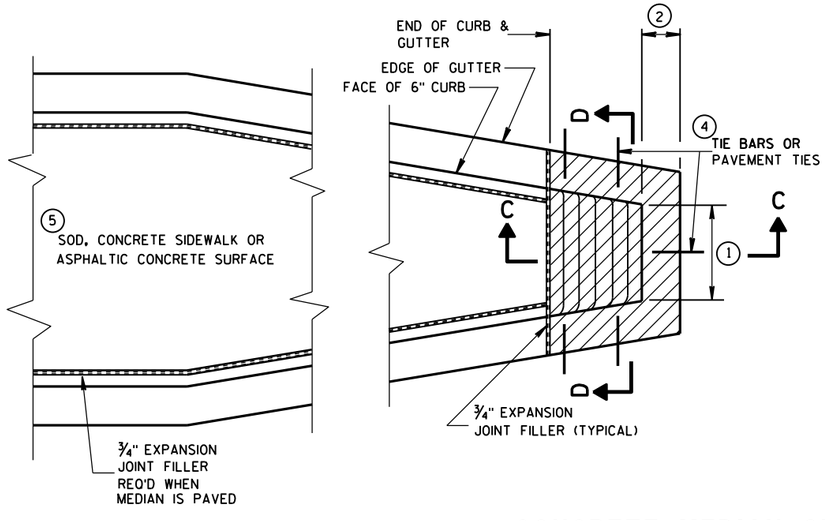
(3) ASPHALTIC CONCRETE PAVEMENT OVER CRUSHED AGGREGATE BASE COURSE.

(4) TIE BARS OR PAVEMENT TIES REQUIRED IN NEW CONCRETE PAVEMENT OR CONCRETE BASE COURSE. TIE BARS SHALL BE NO. 4 X 2'-0" SPACED AT 2'-0" C-C.

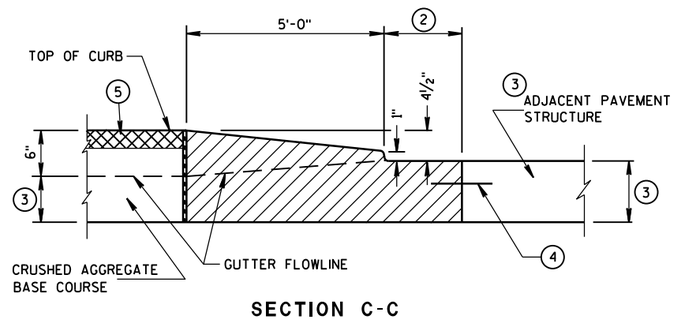
PAVEMENT TIES REQUIRED IN EXISTING CONCRETE BASE COURSE. PAVEMENT TIES SHALL BE NO. 6 X 1'-0" SPACED AT 3'-0" C-C INSTALLED ON A HORIZONTAL SKEW OF 6:1. THE DIRECTION OF SKEW SHALL ALTERNATE AFTER EVERY ONE OR TWO BARS.

(5) SURFACE TYPE AND DETAILS ARE SHOWN ELSEWHERE IN THE PLAN.

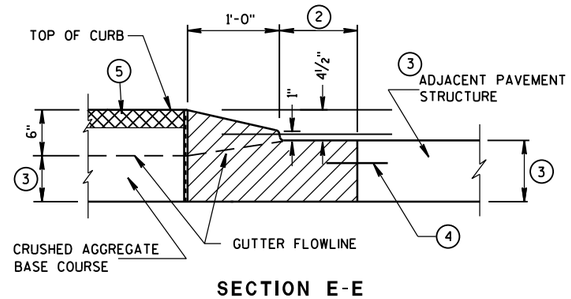




CONCRETE MEDIAN SLOPED NOSE TYPE 1

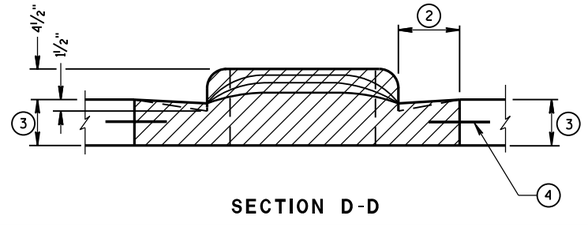


SECTION C-C



SECTION E-E

CONCRETE MEDIAN SLOPED NOSE TYPE 2



SECTION D-D

CONCRETE MEDIAN NOSE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
6/8/2006
DATE
/S/ Jerry H. Zogg
ROADWAY STANDARDS DEVELOPMENT ENGINEER
FHWA

6

S.D.D. 11 B 2-2

6

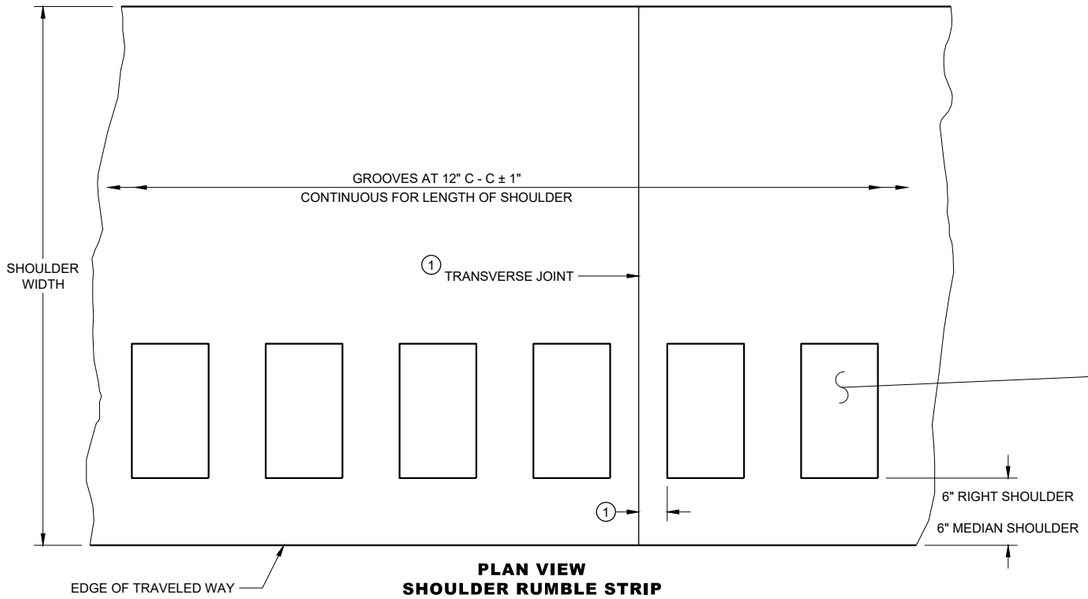
S.D.D. 11 B 2-2

GENERAL NOTES

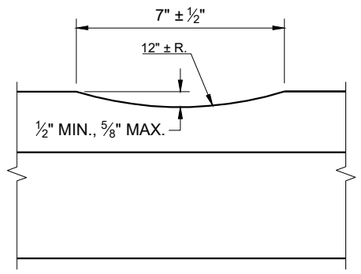
SDD 13A5, SHEET "b" SHOWS THE LOCATION OF THE RUMBLE STRIPS AT RAMP AND GORE LOCATIONS.

RUMBLE STRIPS ON EXPRESSWAYS:
DO NOT INSTALL SHOULDER RUMBLE STRIPS ACROSS SIDE ROAD INTERSECTIONS, COMMERCIAL AND PRIVATE DRIVEWAYS, ADJACENT TO RIGHT TURN LANES, LEFT TURN LANES, TURN LANE TAPERS, 25' IN ADVANCE OF BRIDGE DECKS, 25' IN ADVANCE OF BRIDGE APPROACHES, OR 100 FEET IN ADVANCE OF RAILROAD CROSSINGS.

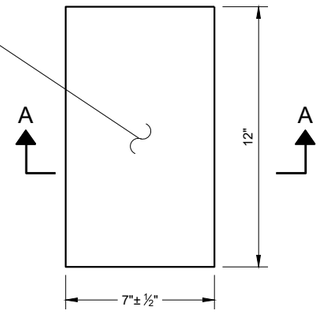
(1) CONCRETE PAVEMENT - RUMBLE STRIPS SHALL BE A MINIMUM OF 6 INCHES AWAY FROM TRANSVERSE JOINTS.



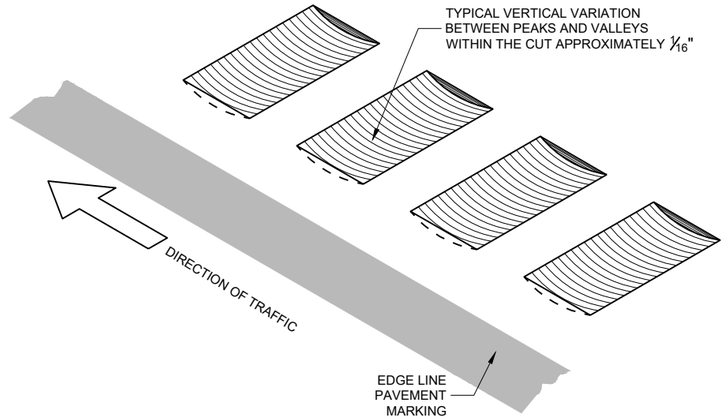
PLAN VIEW
SHOULDER RUMBLE STRIP



SECTION A - A

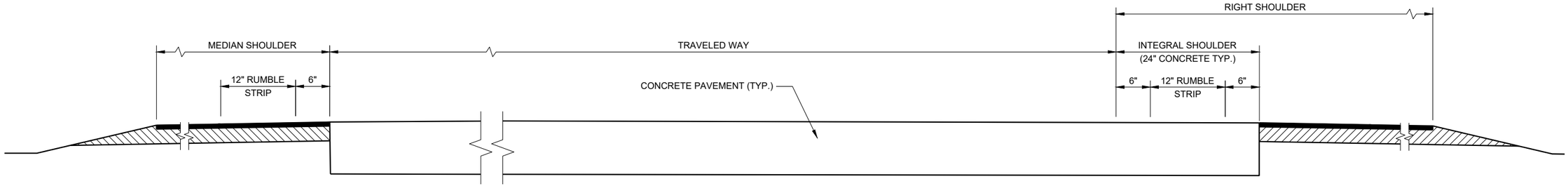


PLAN VIEW
(SINGLE GROOVE)



ISOMETRIC

PLACEMENT DETAIL FOR RUMBLE STRIP



SECTION VIEW

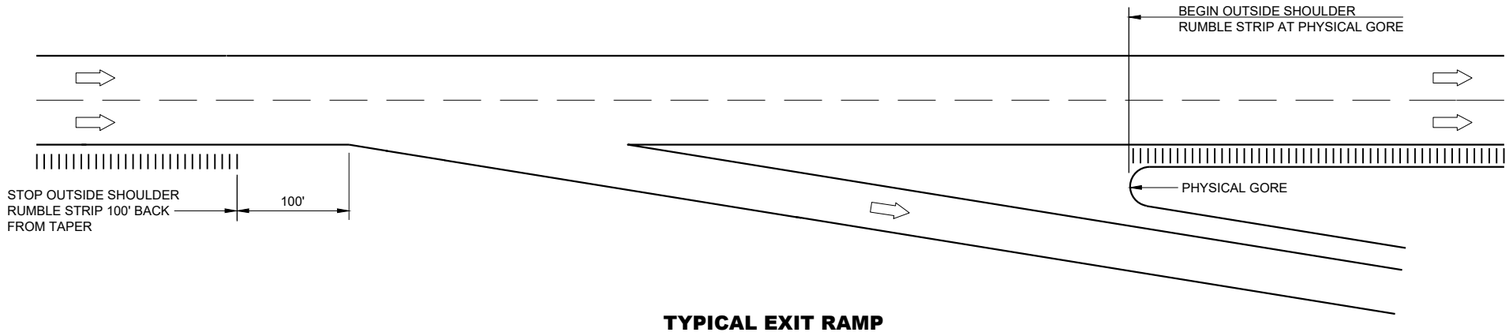
TYPICAL SHOULDER RUMBLE STRIPS
(ONE ROADWAY IS SHOWN)

SHOULDER RUMBLE STRIPS, DIVIDED ROADWAY

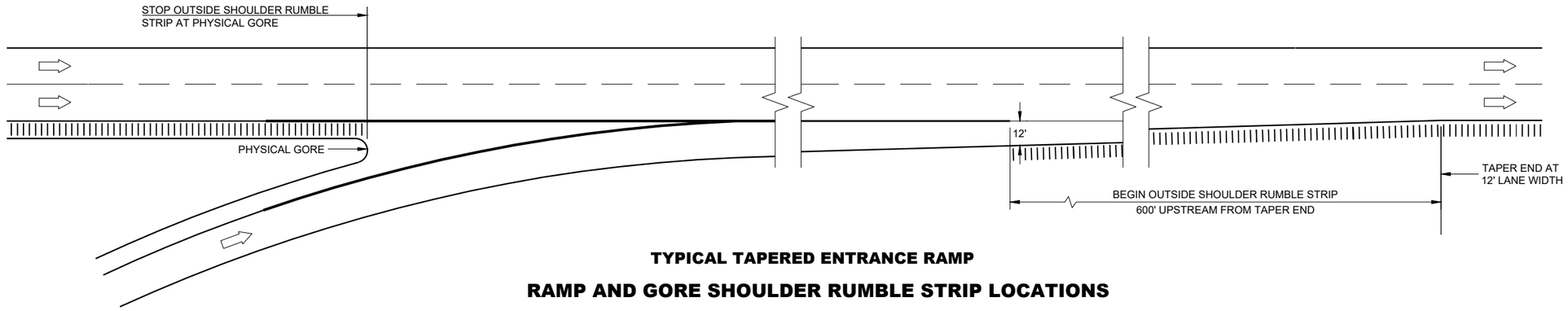
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

SDD 13A05-06a

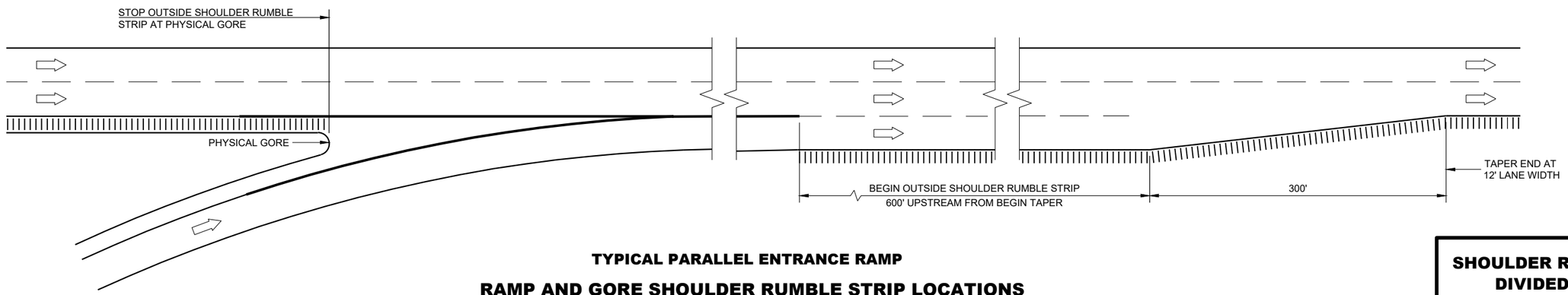


TYPICAL EXIT RAMP



TYPICAL TAPERED ENTRANCE RAMP

RAMP AND GORE SHOULDER RUMBLE STRIP LOCATIONS



TYPICAL PARALLEL ENTRANCE RAMP

RAMP AND GORE SHOULDER RUMBLE STRIP LOCATIONS

GENERAL NOTES

NO RUMBLE STRIP ON EXIT, DIRECTIONAL OR ENTRANCE RAMPS, EXCEPT NEAR THE ENTRANCE TAPER END AND ALONG THE PARALLEL RAMP AREA AS SHOWN.

RUMBLE STRIPS ON EXPRESSWAYS:
DO NOT INSTALL SHOULDER RUMBLE STRIPS ACROSS SIDE ROAD INTERSECTIONS, COMMERCIALAND PRIVATE DRIVEWAYS, ADJACENT TO RIGHT TURN LANES, LEFT TURN LANES, TURN LANE TAPERS, 25' IN ADVANCE OF BRIDGE DECKS, 25' IN ADVANCE OF BRIDGE APPROACHES, OR 100 FEET IN ADVANCE OF RAILROAD CROSSINGS.

LEGEND

DIRECTION OF TRAFFIC

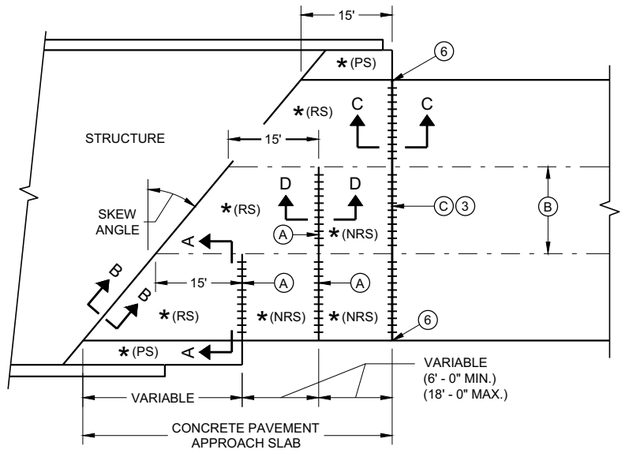
SHOULDER RUMBLE STRIPS, DIVIDED ROADWAY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2023 — DATE
/S/ Rodney Taylor — ROADWAY DESIGN STANDARDS UNIT SUPERVISOR
FHWA

6

SDD 13A05-06b



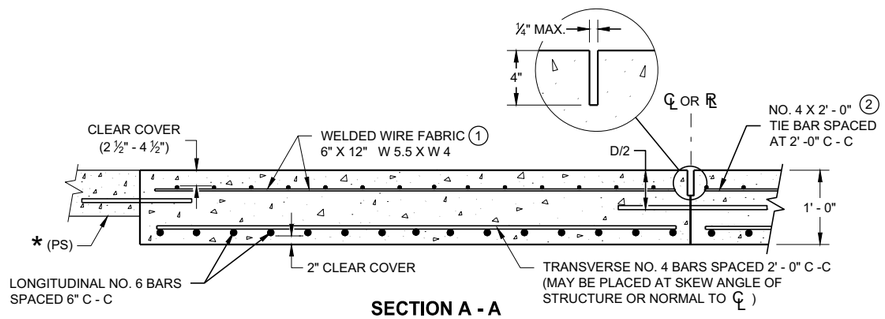
SKEWED APPROACH
(PAVEMENT MORE THAN TWO LANES)

* (RS) = REINFORCED CONCRETE SLAB

* (PS) = PAVED CONCRETE SHOULDER OR CONCRETE DRAINAGE SLAB

* (NRS) - NON - REINFORCED CONCRETE SLAB

*** STANDARD DOWEL BAR DIAMETER (SEE SDD 13C11 AND SDD 13C13)



SECTION A - A
REINFORCEMENT POSITIONING DETAIL

GENERAL NOTES

THE CONTRACTOR MAY SPLICE NO. 6 BARS IN THE APPROACH SLAB FOR SKEWED STRUCTURES ONLY. STAGGER SPLICES WITH A MAXIMUM OF ONE SPLICE PER BAR. THE LENGTH OF LAP IS 20 INCHES.

TACK WELD DOWEL BARS TO THE BASKETS ON ALTERNATE ENDS.

(1) THE CONTRACTOR MAY USE NO. 4 BARS SPACED AT 2' - 0 " C - C IN BOTH THE LONGITUDINAL AND TRANSVERSE DIRECTIONS FOR TOP REINFORCEMENT AS AN ALTERNATIVE TO THE WELDED WIRE FABRIC.

(2) THE CONTRACTOR MAY OMIT THE BARS BETWEEN REINFORCED SLABS WHERE SLAB REINFORCEMENT BARS EXTEND ACROSS THE CENTERLINE OR REFERENCE LINE.

(3) DO NOT CONSTRUCT AN EXPANSION JOINT OR INSTALL DOWEL BARS WHEN ABUTTING AN HMA PAVEMENT.

(4) USE A JOINT SEALANT CONFORMING TO STANDARD SPECIFICATION 415.2.6.

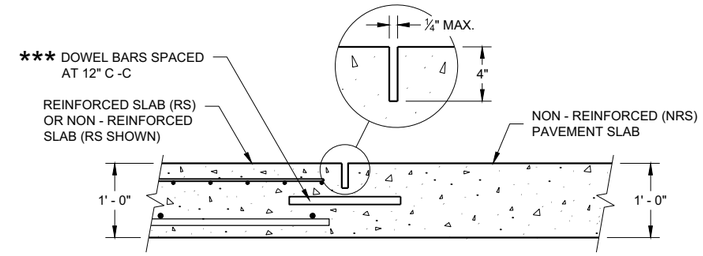
(5) PLACE EXPANSION CAP ON THE END OF THE DOWEL THAT IS NOT TACK WELDED TO THE BASKET. DO NOT FORCE DOWEL BAR PAST THE DOWEL STOP.

(6) EXTEND EXPANSION JOINT THROUGH ANY ADJACENT TIED CONCRETE.

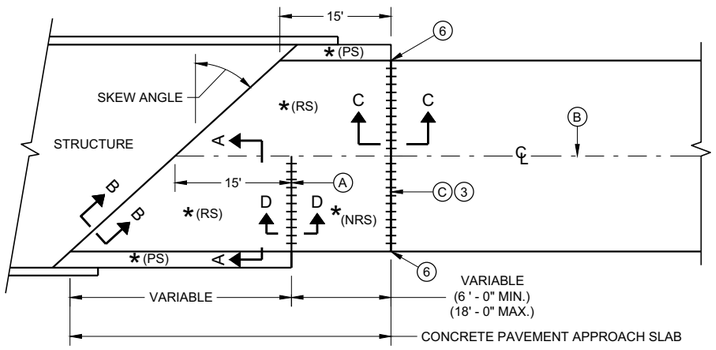
(A) STANDARD CONTRACTION JOINT NORMAL TO ℄ OR ℞.

(B) STANDARD LONGITUDINAL JOINT WITH TIE BARS.

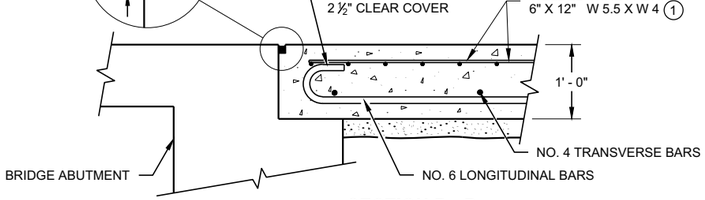
(C) 1 ½" EXPANSION JOINT WITH DOWEL BARS NORMAL TO ℄ OR ℞ .



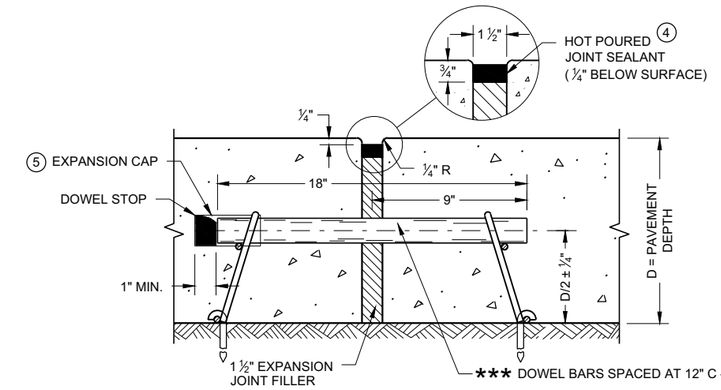
SECTION D - D
CONTRACTION JOINT



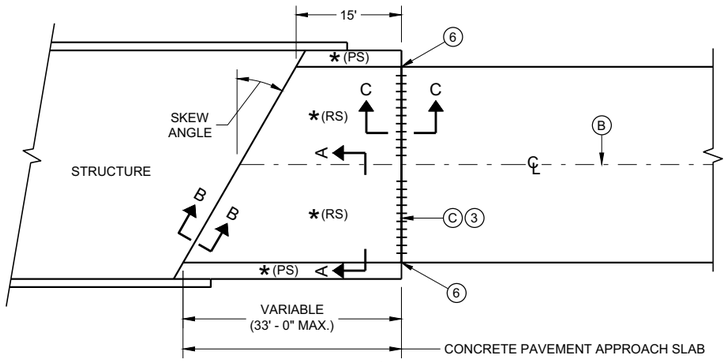
SKEWS > 20°
(PAVEMENT WIDTH ≤ 30')



SECTION B - B
BEND DETAIL
BOTTOM REINFORCEMENT

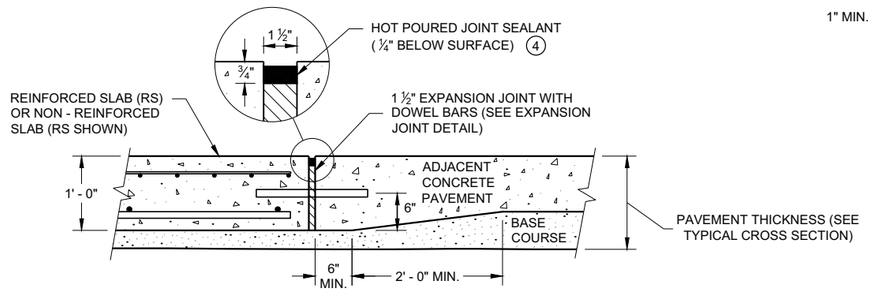


EXPANSION JOINT DETAIL



SKEWS ≤ 20°
(PAVEMENT WIDTH ≤ 30')

APPROACH SLAB AND ADJACENT PAVEMENT



SECTION C - C
TRANSITION DETAIL
APPROACH SLAB TO ADJACENT PAVEMENT

CONCRETE PAVEMENT APPROACH SLAB

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

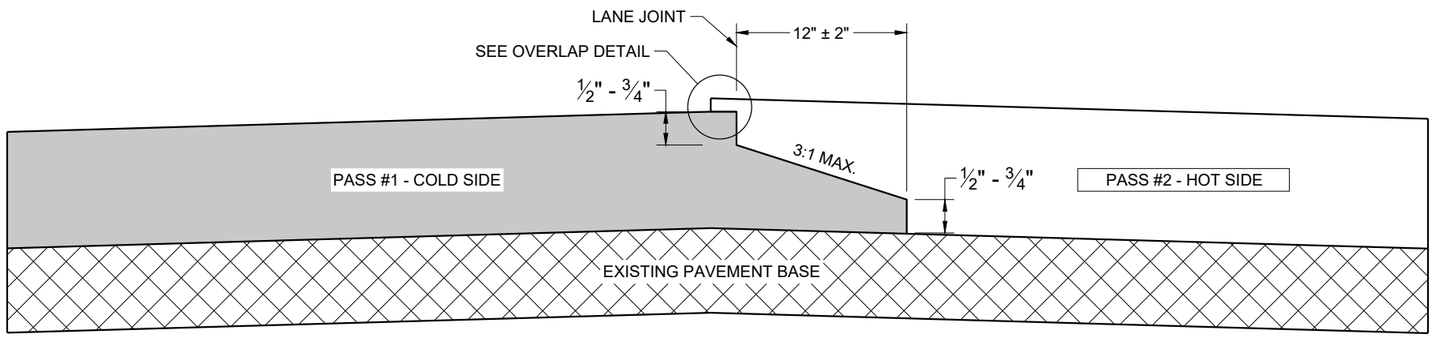
APPROVED
November 2018
DATE

/S/ Peter Kemp, P.E.
PAVEMENT SUPERVIS

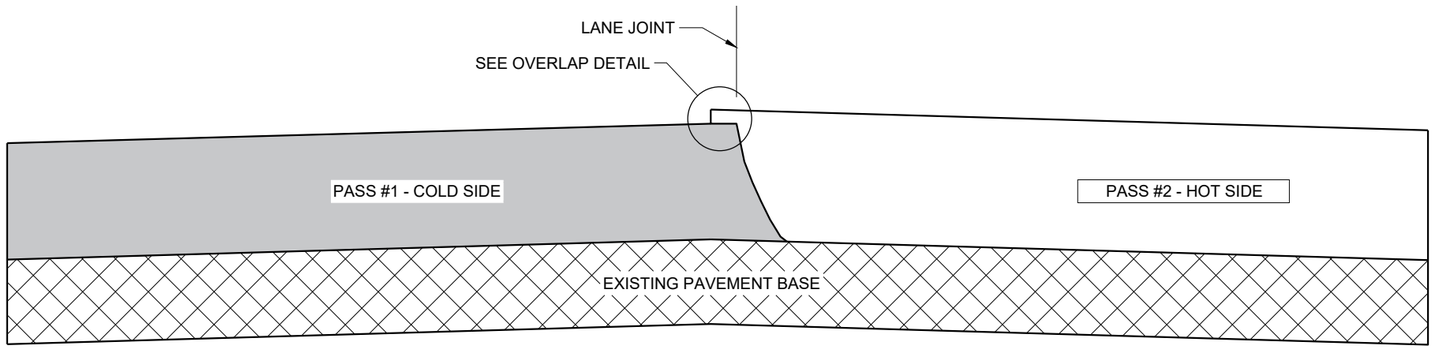
FHWA

6

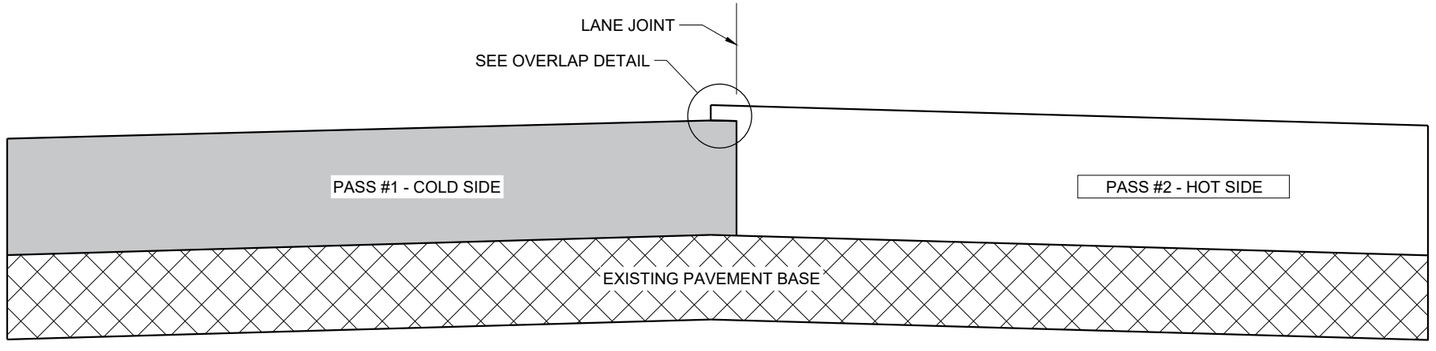
SDD 13B02 - 09a



TYPICAL PAVEMENT CROSS SECTION
NOTCHED WEDGE JOINT



TYPICAL PAVEMENT CROSS SECTION
VERTICAL JOINT



TYPICAL PAVEMENT CROSS SECTION
VERTICAL JOINT (MILLED)

GENERAL NOTES

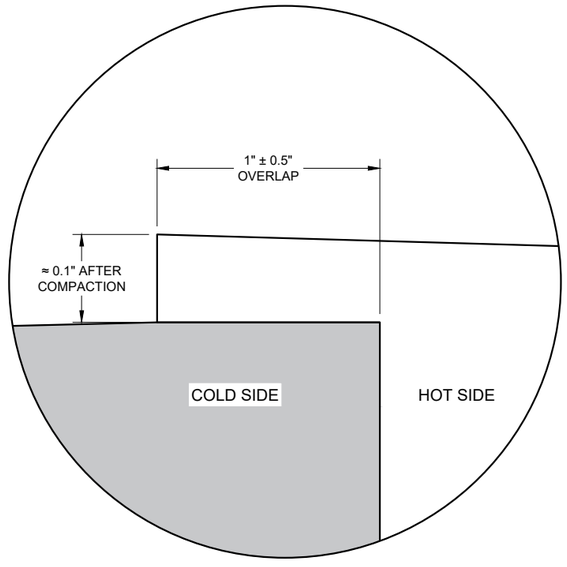
IN ADDITION TO THE DETAILS PROVIDED IN THIS DRAWING, CONFORM TO STANDARD SPECIFICATION 450.3.2.8 FOR WHEN A NOTCHED WEDGE JOINT IS REQUIRED AND FOR GENERAL JOINT CONSTRUCTION REQUIREMENTS.

FOR ALL LONGITUDINAL JOINTS, ENSURE THE PAVER SCREED OVERLAPS THE PREVIOUSLY PLACED PAVEMENT BY 1" ± 0.5" AND THE HOT SIDE OF THE JOINT REMAINS HIGHER THAN THE COLD SIDE BY APPROXIMATELY 0.1" AFTER FINAL COMPACTION. (IT WILL BE FLUSH WHEN PAVING IN ECHELON.)

ONLY REMOVE THE LONGITUDINAL NOTCHED WEDGE JOINT FOR SMA PAVEMENT OR AS DIRECTED BY THE ENGINEER TO ADDRESS SPECIFIC LENGTHS OF JOINT DAMAGED BY TRAFFIC.

WHEN MILLING BACK OR REMOVING ANY LONGITUDINAL JOINT, LIMIT THE MATERIAL REMOVED TO 2" FROM THE TOP NOTCH OR FROM THE VERTICAL JOINT EDGE ON THE COLD SIDE OF THE JOINT.

USE LONGITUDINAL MILLED JOINT AS PLANS SHOW OR THE AS THE ENGINEER DIRECTS.



OVERLAP DETAIL (TYPICAL)

6

6

SDD 13C19 - 03

SDD 13C19 - 03

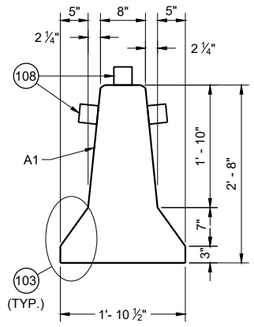
HMA LONGITUDINAL JOINTS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

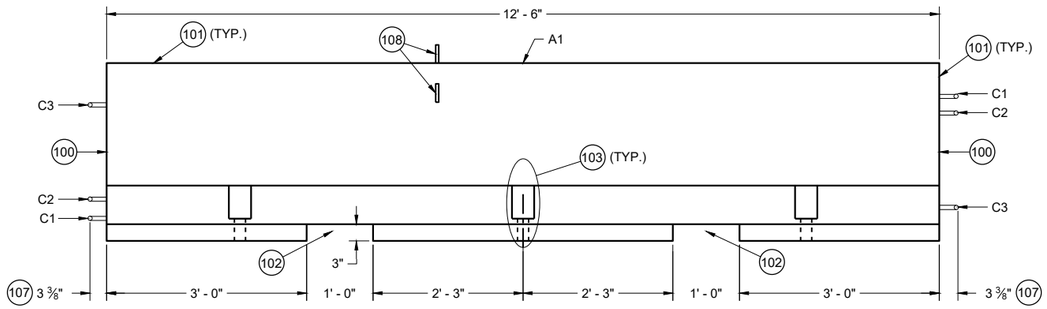
APPROVED
November 2020
DATE

/S/ Steven Hefel
HMA PAVEMENT ENGIN

FHWA



CROSS SECTION



PROFILE VIEW

GENERAL NOTES

PLACE BARRIER ON PAVED SURFACE. BEFORE PLACEMENT OF TEMPORARY BARRIER, REMOVE ALL LOOSE MATERIAL FROM PAVED SURFACE.

LOOP BARS C1, C2 AND C3 ARE NOT FOR PLACEMENT OR MOVEMENT OF BARRIER.

(100) PERMANENTLY FORM INTO ONE END OF BARRIER THE FOLLOWING INFORMATION:
- A. TYPE OF BARRIER: WI-CBTP
- B. MANUFACTURER
- C. DATE OF MANUFACTURE (MONTH AND YEAR)

(101) 1" OPTIONAL CHAMFER

(102) SEE LIFTING SLOT DETAIL

(103) SEE ANCHOR BLOCK DETAIL

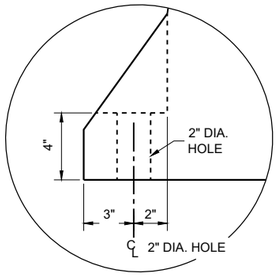
(104) 1 ¾" MIN. CLEAR COVER

(105) 2" MIN. CLEAR COVER

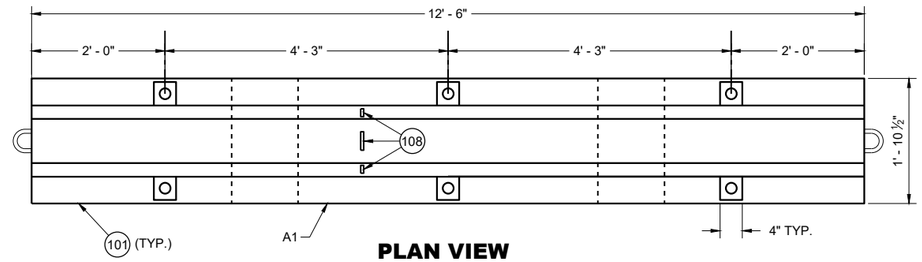
(106) 1" MIN. CLEAR COVER

(107) ± ⅛" MEASURED FROM FACE OF CONCRETE BARRIER TO OUTSIDE OF LOOP BAR (TYP.)

(108) USE DELINEATORS CONFORMING TO SECTION 633 OF THE STANDARD SPECIFICATIONS. CONTRACTOR MY USE ALTERNATE SHAPES AND HOUSING. INSTALL DELINEATORS ACCORDING TO MANUFACTURERS INSTRUCTION. INSTALL YELLOW REFLECTORS WHEN BARRIER IS LOCATED LEFT OF TRAFFIC AND WHITE WHEN BARRIER IS LOCATED RIGHT OF TRAFFIC. SPACE DELINEATORS A MAXIMUM OF 25 FEET APART, PROVIDE TOP MOUNTED DELINEATORS IN ADDITION TO SIDE MOUNTED DELINEATORS ON BARRIER INSTALLATIONS LOCATED ON A CURVED ALIGNMENT LONGER THAT 200 FEET AND ON BARRIERS USED TO SEPARATE OPPOSING TRAFFIC.

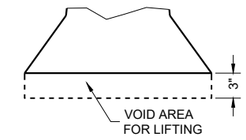


ANCHOR BLOCK DETAIL

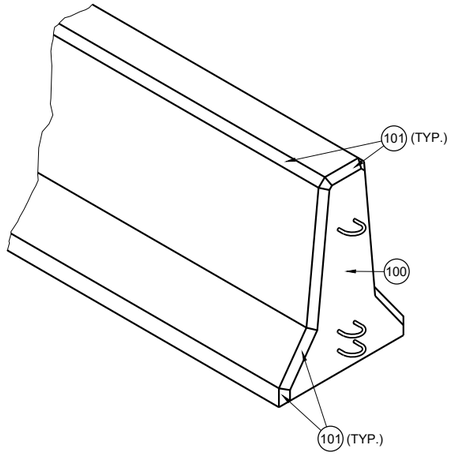


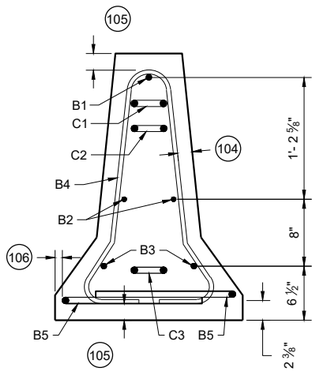
PLAN VIEW

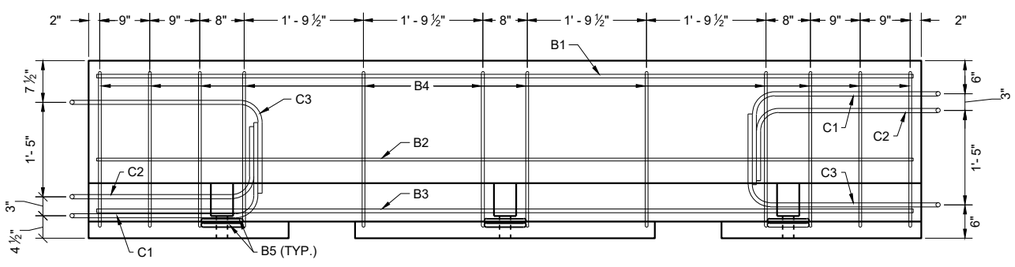
TEMPORARY BARRIER



LIFTING SLOT DETAIL (TYP.)







PROFILE VIEW

TEMPORARY BARRIER REINFORCEMENT

CONCRETE BARRIER TEMPORARY PRECAST, 12' - 6"

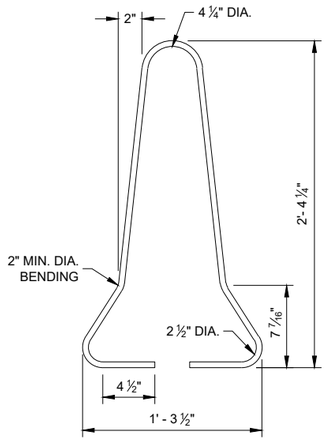
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

SDD 14B07-16a

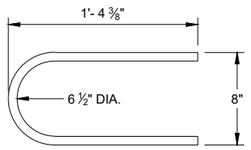
6

SDD 14B07-16a

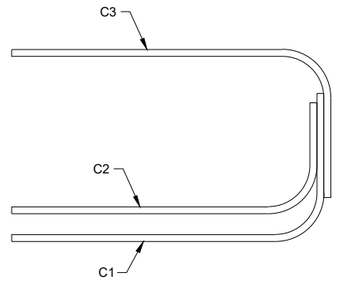
6



B4 BAR DETAIL

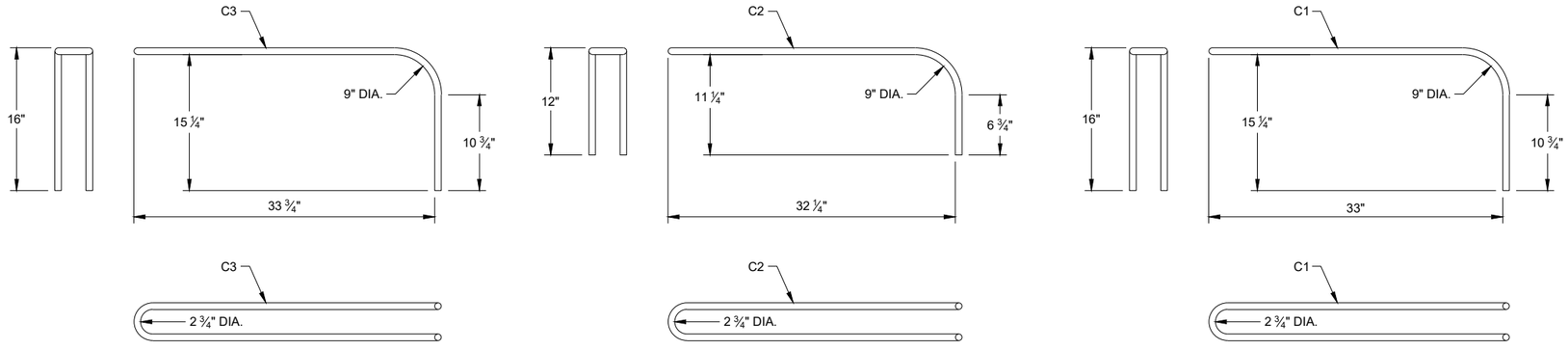


B5 BAR DETAIL



PROFILE VIEW

LOOP BAR ASSEMBLY



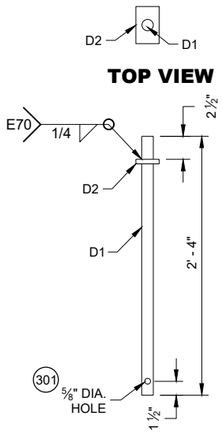
C BAR DETAILS

CONCRETE BARRIER TEMPORARY PRECAST, 12' - 6"

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

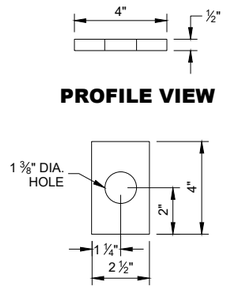
SDD 14B07-16b



TOP VIEW

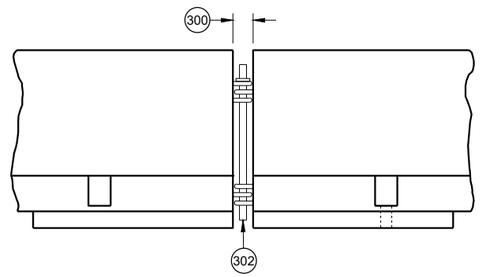
PROFILE VIEW

CONNECTOR PIN ASSEMBLY



PROFILE VIEW

TOP VIEW D2



CONNECTING TEMPORARY BARRIER SECTIONS

GENERAL NOTES

300 SET WITH 3 ⅝" WOOD BLOCK.

301 HOLE IS OPTIONAL.

302 CONNECTOR PIN ASSEMBLY.

303 CONCRETE PAVEMENT, APPROACH SLAB, OR DECK.

304 CONCRETE DECK.

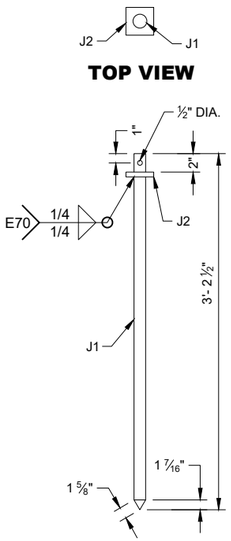
305 DO NOT USE ON CONCRETE BRIDGE DECK WITH ASPHALT OVERLAY OR CONCRETE PAVEMENT WITH ASPHALT OVERLAY.

306 MINIMUM OF 2" OF ASPHALT.

307 ASPHALT ANCHOR PIN ASSEMBLY

308 IF DRILLING A PILOT HOLE, THE MAX, DIA. OF THE HOLE IS 3/4"

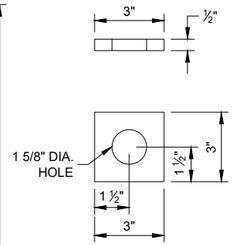
309 WHEN THERE IS ASPHALT OVERLAYING CONCRETE PAVEMENT, A 1 5/8" DIA. PILOT HOLE CAN BE DRILLED INTO THE OVERLAY AND CONCRETE. IF NEEDED DRILL A 3/4" PILOT HOLE IN BASE COURSE.



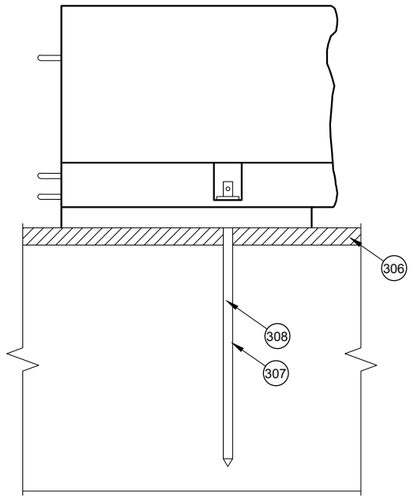
TOP VIEW

PROFILE VIEW

ASPHALT ANCHOR PIN ASSEMBLY

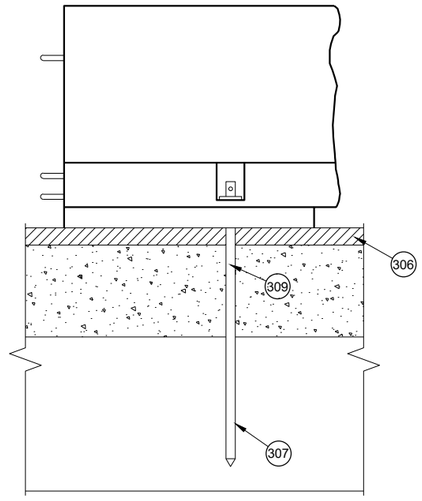


TOP VIEW J2



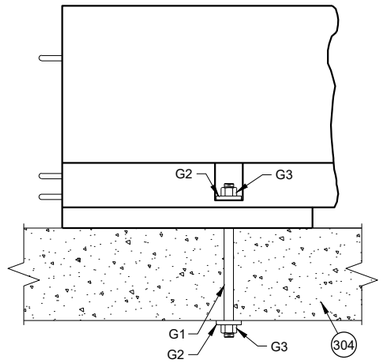
SIDE VIEW

ASPHALT ANCHOR INSTALLATION THROUGH ASPHALT PAVEMENT



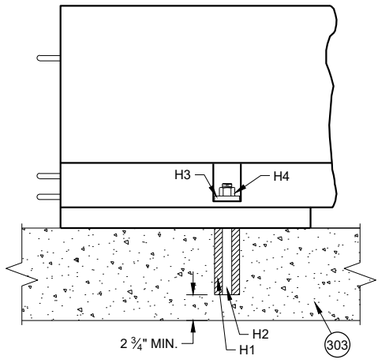
SIDE VIEW

ASPHALT ANCHOR INSTALLATION THROUGH ASPHALT OVERLAY ON TOP OF CONCRETE PAVEMENT



SIDE VIEW

THROUGH BOLT ANCHOR INSTALLATION (305)



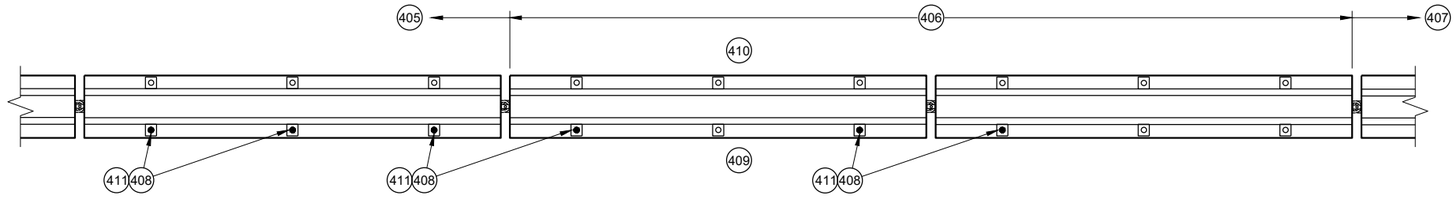
SIDE VIEW

ADHESIVE ANCHOR INSTALLATION (305)

CONCRETE BARRIER TEMPORARY PRECAST, 12' - 6"

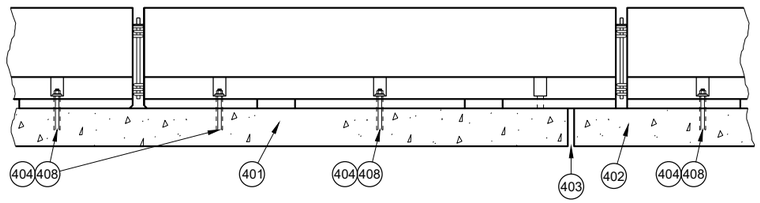
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6
SDD 14B07-16c



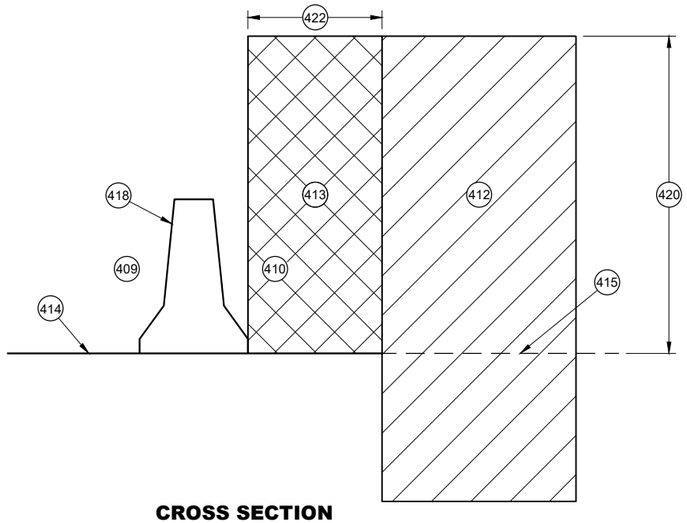
PLAN VIEW

TRANSITION FROM FREE STANDING TO ANCHORED BARRIER



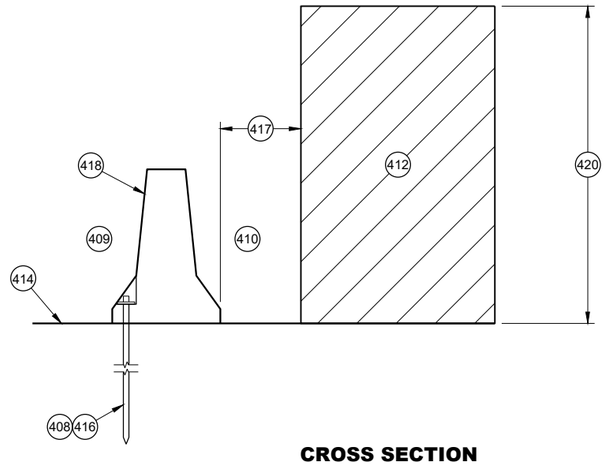
PROFILE VIEW

ANCHORED BARRIER NEAR EXPANSION JOINT (400)



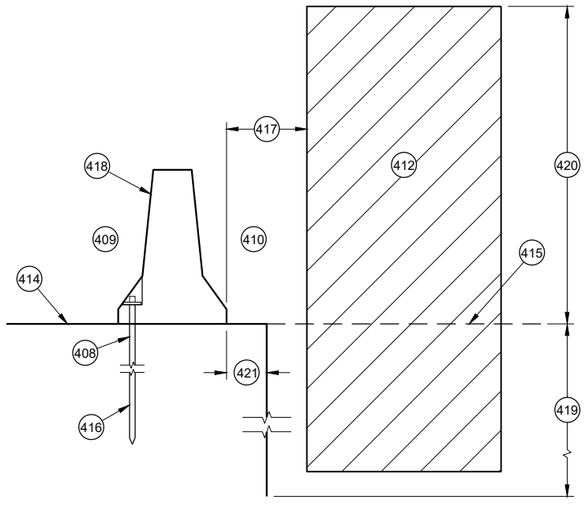
CROSS SECTION

FREE STANDING BARRIER



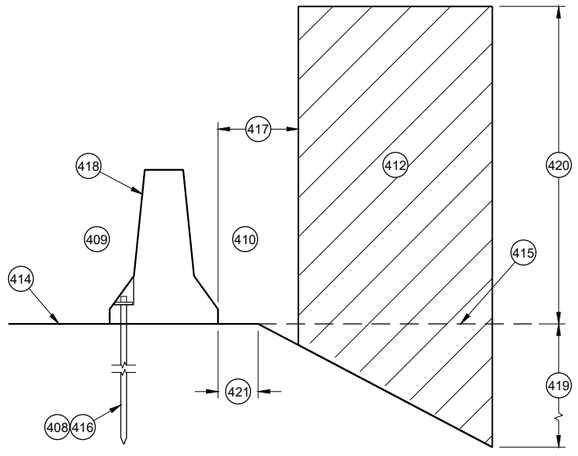
CROSS SECTION

ANCHORED BARRIER FOR OBJECTS ABOVE THE GRADE LINE AND NEAR THE BARRIER



CROSS SECTION

ANCHORED BARRIER NEAR VERTICAL DROP OFF



CROSS SECTION

ANCHORED BARRIER NEAR A SLOPE

GENERAL NOTES

(400) NO SINGLE CONCRETE BARRIER SECTION SHALL BE ANCHORED TO BOTH THE BRIDGE DECK AND THE APPROACH SLAB. ALL ANCHOR BOLT LOCATIONS SHALL BE ANCHORED TO THE DECK IN ACCORDANCE WITH THE DETAIL. NO MORE THAN ONE ANCHOR BOLT SHALL BE ELIMINATED FROM A BARRIER SECTION WHEN SPANNING AN EXPANSION JOINT.

(401) CONCRETE DECK

(402) CONCRETE DECK OR APPROACH SLAB.

(403) EXPANSION JOINT

(404) ADHESIVE ANCHOR SHOWN. SEE ANCHOR DETAILS.

(405) ANCHORED TEMPORARY BARRIER

(406) TRANSITION FROM ANCHORED TEMPORARY BARRIER TO FREE STANDING

(407) FREE STANDING BARRIER

(408) REMOVE ALL ANCHORS WHEN NO LONGER NEEDED. FILL CONCRETE PAVEMENTS, DECKS AND APPROACH SLABS WITH NON-SHRINK COMMERCIAL GROUT FROM THE APPROVED PRODUCT LIST. FILL ASPHALT PAVEMENTS WITH ASTM D6690 TYPE II RUBBERIZED CRACK FILLER.

(409) TRAFFIC SIDE

(410) NON-TRAFFIC SIDE

(411) ANCHOR LOCATION. SEE ANCHORING DETAILS.

(412) WORK AREA

(413) AREA FREE OF OBJECTS AND WORKERS

(414) GRADE LINE

(415) EXTENDED GRADE LINE

(416) ANCHORED TEMPORARY BARRIER. SEE BOLT THROUGH DECK, REMOVABLE ADHESIVE ANCHOR, OR AN ASPHALT ANCHOR ROD DETAILS FOR MORE INFORMATION. ASPHALT ANCHOR ROD SHOWN.

(417) WHEN OBJECTS EXTEND ABOVE THE GRADE. A MINIMUM OF 1 FOOT IS REQUIRED FROM BACK OF BARRIER TO OBJECT.

(418) OBJECTS ARE NOT TO BE PLACED ON, MOUNTED TO, OR ALLOWED TO LEAN AGAINST THE BARRIER WITHOUT WRITTEN PERMISSION OF THE PROJECT ENGINEER.

(419) DEPTHS OF 3 FEET OR MORE.

(420) Y = 6.5'

(421) OFFSET FROM BACK OF BARRIER EDGE:

CONCRETE PAVEMENT	0.5'
ASPHALT	0.5'

(422) POSTED SPEED (MPH):

45 OR GREATER	4.0'
40 OR LOWER	2.0'

CONCRETE BARRIER TEMPORARY PRECAST, 12' - 6"

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6
SDD 14B07-16d

GENERAL NOTES

(500) EXISTING RIGID BARRIERS (VARIES)

(501) TEMPORARY BARRIER

(502) SEE OTHER DETAIL ON HOW TO ANCHOR TEMPORARY BARRIER (BARRIER ASPHALT ANCHOR SHOWN).

(503) ANCHORS ARE REQUIRED ON BOTH SIDE OF THE TEMPORARY BARRIER.

(504) NESTED RAILS ARE REQUIRED ON BOTH SIDES OF THE TEMPORARY BARRIER FOR ALL INSTALLATIONS.

(505) TRAFFIC TRAVELS FROM PERMANENT BARRIER TO TEMPORARY BARRIER.

(506) TRAFFIC TRAVELS FROM TEMPORARY BARRIER TO PERMANENT BARRIER.

(507) VERTICAL BARRIER

(508) SAFETY SHAPE BARRIER

(509) SINGLE SLOPE BARRIER

(510) CAP END PLATE PLACED FLUSH WITH UPSTREAM END OF RIGID BARRIER.

(511) BENT THRIE BEAM TO FIT.

(512) THRIE BEAM PIECES ARE OFFSET 15 ¼" TO PREVENT INTERFERENCE FROM THE ANCHORS ON OPPOSING SIDES.

(513) TWO (2) P1, P2 AND P3 ARE REQUIRED

(514) FIVE (5) N1, N2 AND N3 ARE REQUIRED

(515) TWO (2) R1, R2 AND R3 ARE REQUIRED

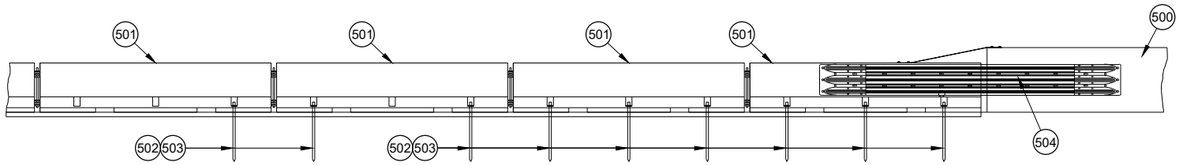
(516) CUT WOOD BLOCK TO FIT.

(517) SEE THRIE BEAM RAIL TERMINAL CONNECTOR DETAIL ASSEMBLY.

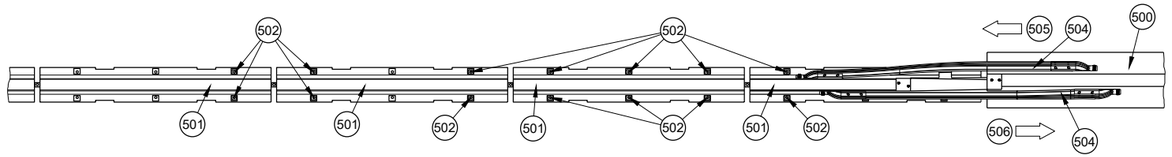
(518) CAP ASSEMBLY

(519) 4" MAX. GAP BETWEEN TEMPORARY BARRIER AND RIGID BARRIER.

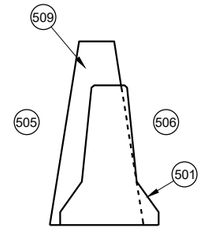
(520) ALL TWELVE SPLICE HOLES REQUIRE M1 AND M2



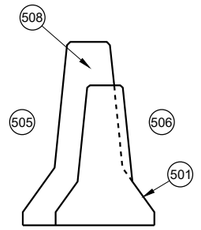
PROFILE VIEW



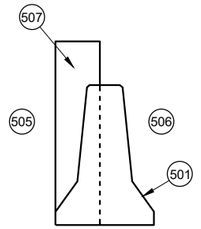
PLAN VIEW
TRANSITION TO RIGID BARRIER



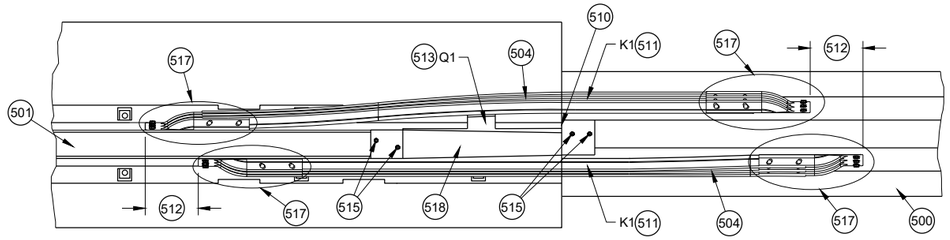
CROSS SECTION TEMPORARY BARRIER PLACEMENT SINGLE SLOPE



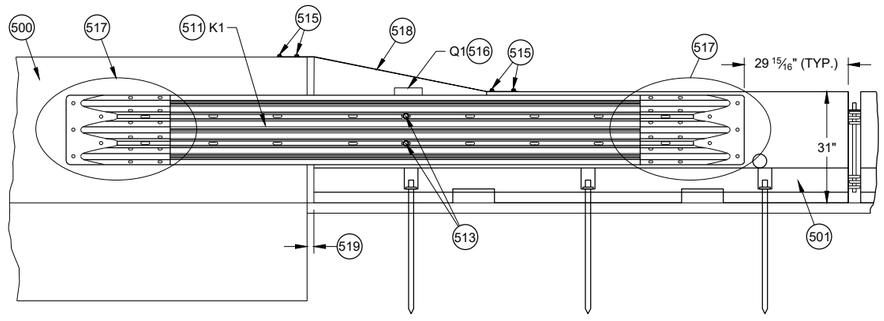
CROSS SECTION TEMPORARY BARRIER PLACEMENT SAFETY SHAPE



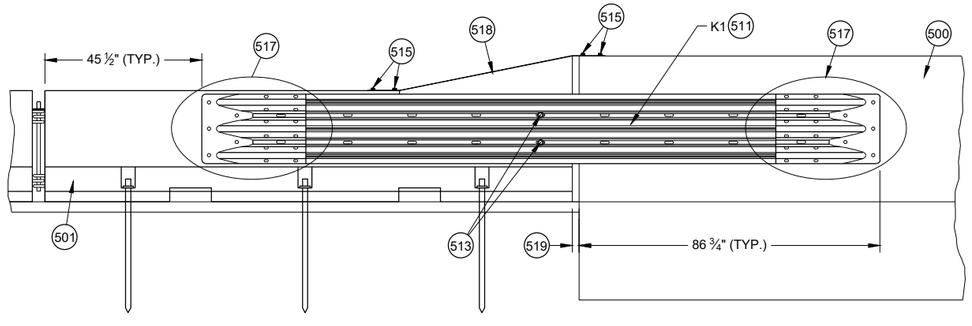
CROSS SECTION TEMPORARY BARRIER PLACEMENT VERTICAL



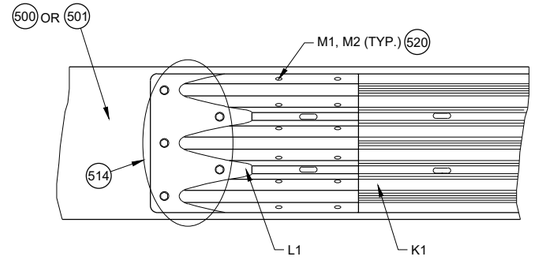
PLAN DETAIL VIEW
TRANSITION TO RIGID BARRIER



BACK DETAIL VIEW
TRANSITION TO RIGID BARRIER



FRONT DETAIL VIEW
TRANSITION TO RIGID BARRIER

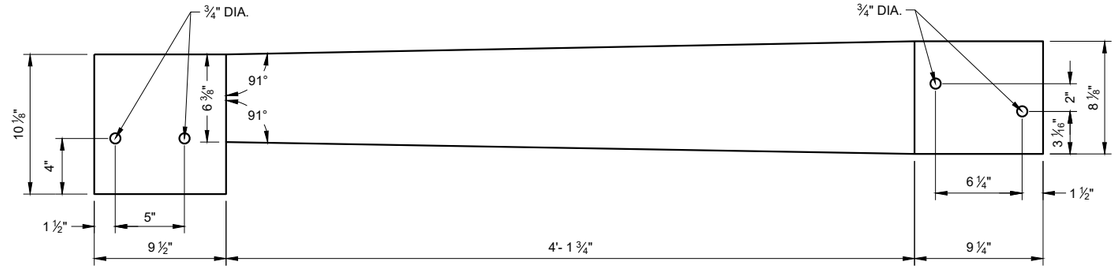


517 DETAIL PLAN VIEW
THRIE BEAM RAIL TERMINAL CONNECTOR ASSEMBLY

CONCRETE BARRIER TEMPORARY PRECAST, 12' - 6"

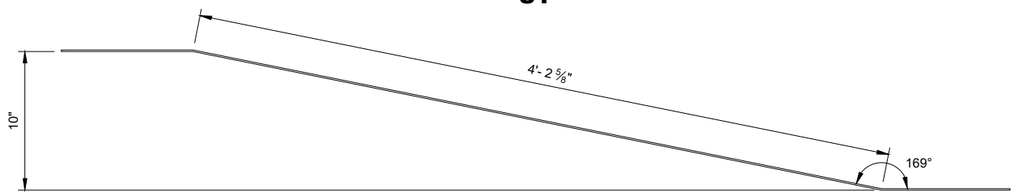
6

SDD 14B07-16e



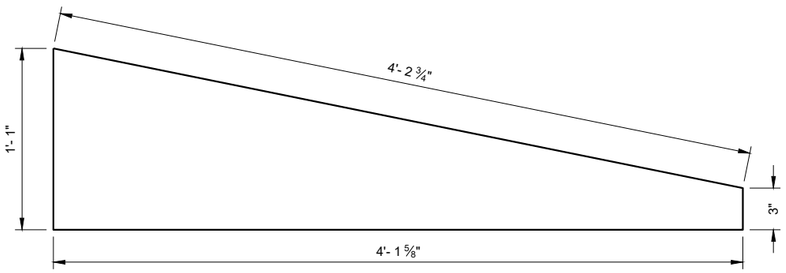
TOP VIEW

S1



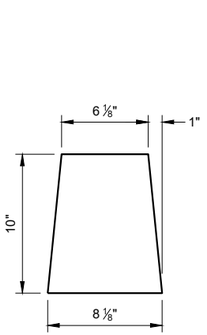
ELEVATION VIEW

S1

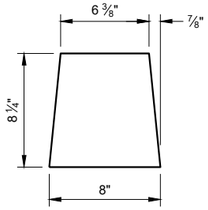


SIDE VIEW

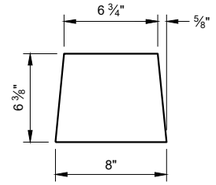
S3



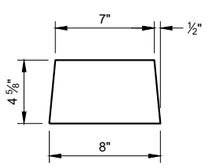
S2



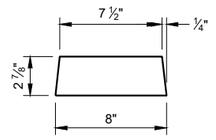
S4



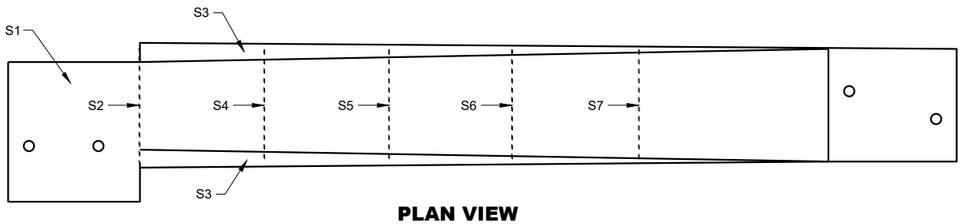
S5



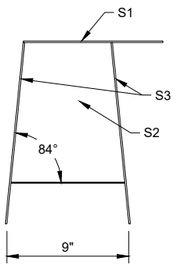
S6



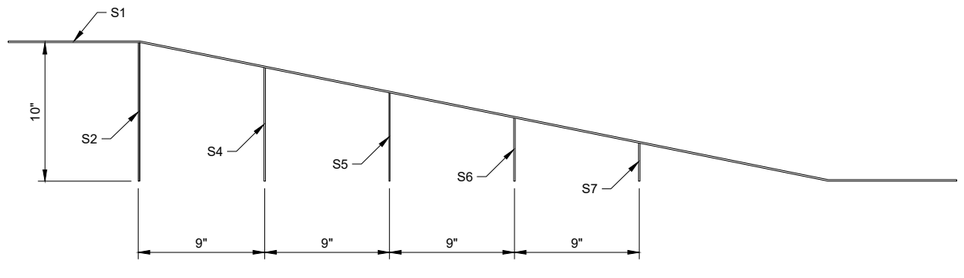
S7



PLAN VIEW



BACK VIEW



SIDE VIEW (600)

42" TOP CAP ASSEMBLY

GENERAL NOTES

STITCH WELD GUSSET PLATES AND END PLATES ON THREE SIDES

STITCH WELD TWO SIDE PLATES TO TOP PLATE, END PLATE AND GUSSETS.

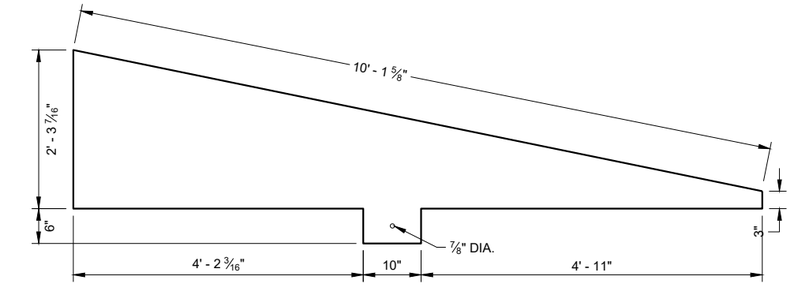
(600) SIDE PLATES (S3) NOT SHOWN FOR CLARITY.

CONCRETE BARRIER TEMPORARY PRECAST, 12' - 6"

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

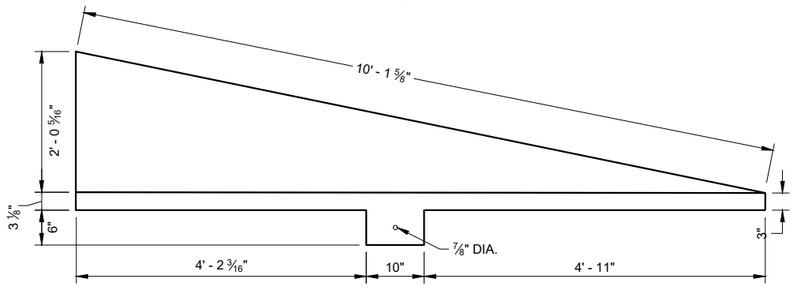
SDD 14B07-16f



SIDE VIEW
T4



END VIEW



SIDE VIEW
T3

END VIEW

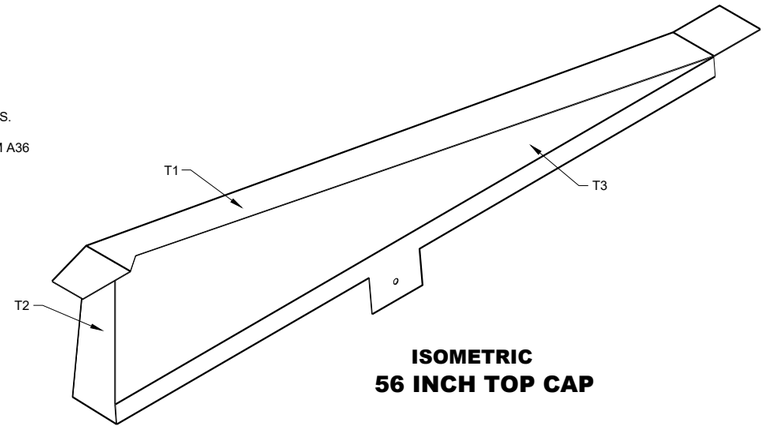
GENERAL NOTES

STITCH WELD GUSSET PLATES AND END PLATES ON THRIE SIDES

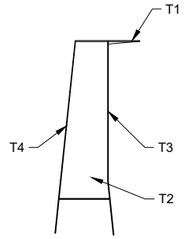
STITCH WELD TWO SIDE PLATES TO TOP PLATE, END PLATE AND GUSSETS.

SIDE PLATES, TOP PLATE, END PLATE AND GUSSETS ARE 12 GAUGE ASTM A36 GALVANIZED STEEL.

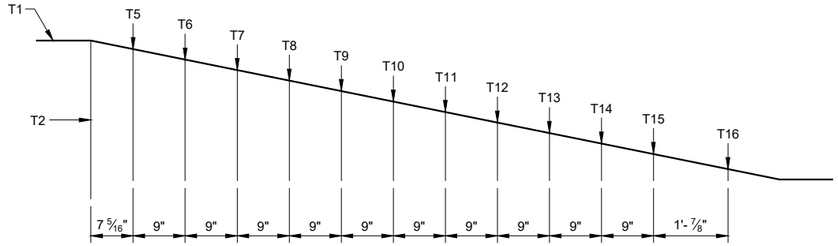
(700) SIDE PLATES (T3 AND T4) NOT SHOWN FOR CLARITY.



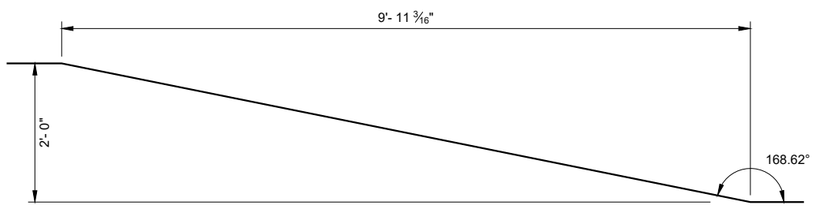
ISOMETRIC
56 INCH TOP CAP



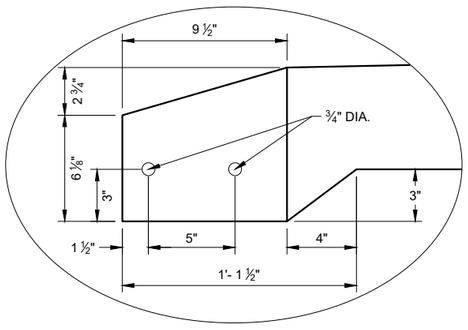
END VIEW
56 INCH TOP CAP



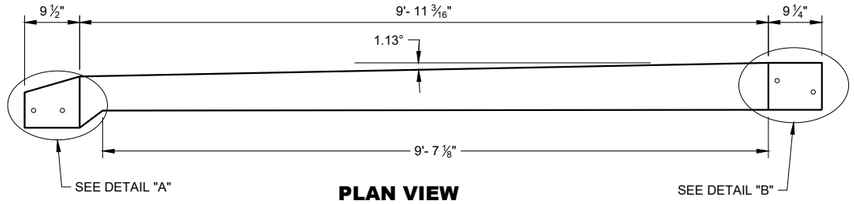
SIDE VIEW (700)
56 INCH TOP CAP



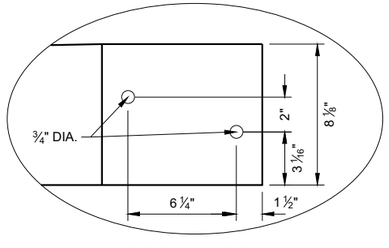
SIDE VIEW
TOP PLATE T1



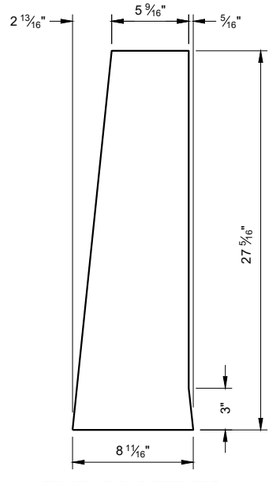
DETAIL "A"



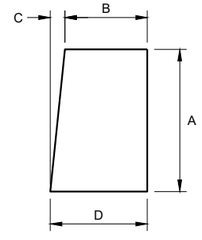
PLAN VIEW
TOP PLATE T1



DETAIL "B"



END PLATE T2



GUSSET PLATES
T5 - T16

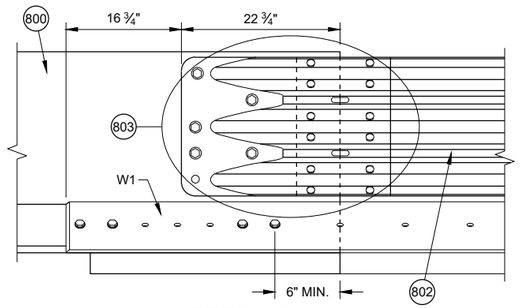
GUSSET DIMENSIONS				
GUSSET NO.	A	B	C	D
T5	22 13/16"	5 1/16"	2 5/16"	8 1/16"
T6	21"	5 7/8"	2 3/16"	8 1/16"
T7	19 3/16"	6 1/16"	1 15/16"	8 1/16"
T8	17 3/8"	6 1/4"	1 13/16"	8 1/16"
T9	15 5/16"	6 7/16"	1 9/16"	8 1/16"
T10	13 3/4"	6 5/8"	1 7/16"	8 1/16"
T11	11 15/16"	6 13/16"	1 1/4"	8 1/16"
T12	10 1/8"	7"	1 1/16"	8 1/16"
T13	8 5/16"	7 3/16"	7/8"	8 1/16"
T14	6 1/2"	7 3/8"	1 1/16"	8 1/16"
T15	4 11/16"	7 9/16"	1/2"	8"
T16	2 7/8"	7 3/4"	1/4"	8"

CONCRETE BARRIER TEMPORARY PRECAST, 12' - 6"

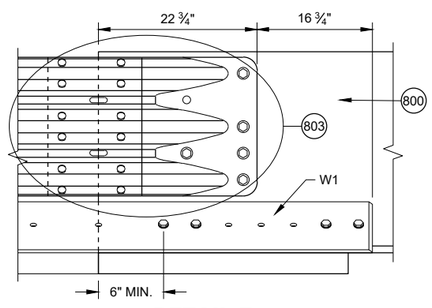
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

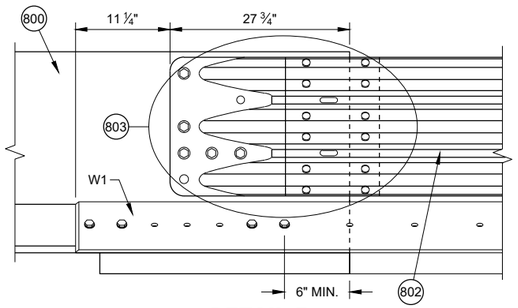
SDD 14B07-16g



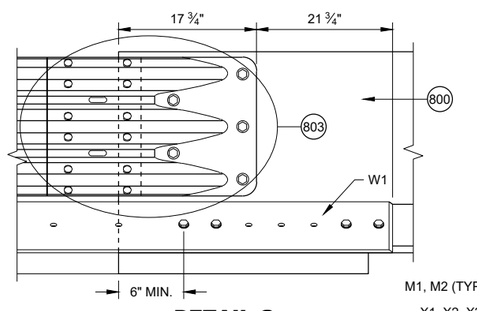
DETAIL D



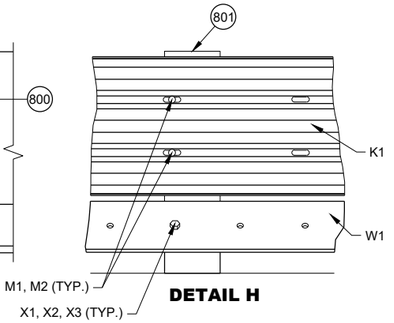
DETAIL E



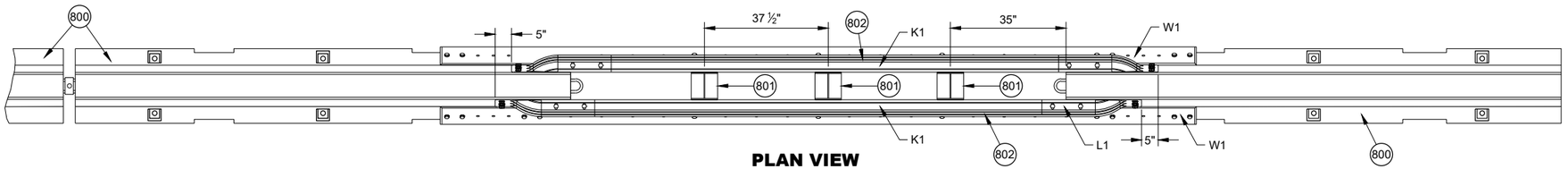
DETAIL F



DETAIL G



DETAIL H



PLAN VIEW

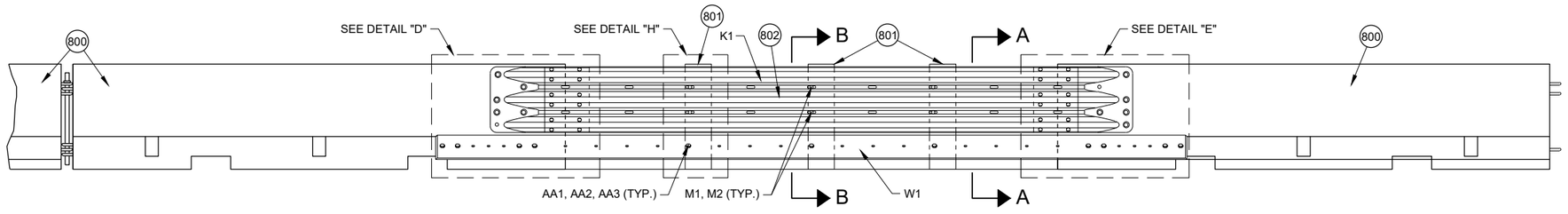
GENERAL NOTES

(800) FREE STANDING TEMPORARY BARRIER

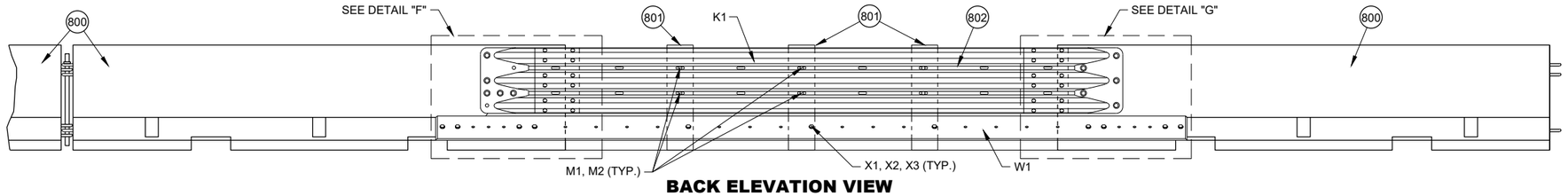
(801) GAP STIFFENER ASSEMBLY

(802) THRIE BEAMS ARE NESTED ON BOTH SIDES OF THE TEMPORARY BARRIER.

(803) SEE THRIE BEAM RAIL TERMINAL CONNECTOR DETAIL



FRONT ELEVATION VIEW



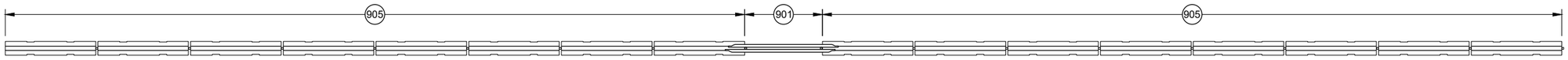
BACK ELEVATION VIEW

PORTABLE CONCRETE BARRIER GAP THRIE BEAM COVER

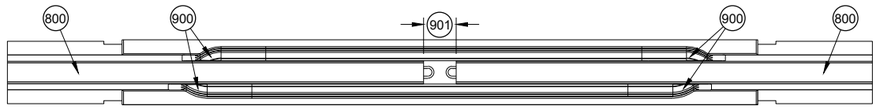
CONCRETE BARRIER TEMPORARY PRECAST, 12' - 6"

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6
SDD 14B07-16h



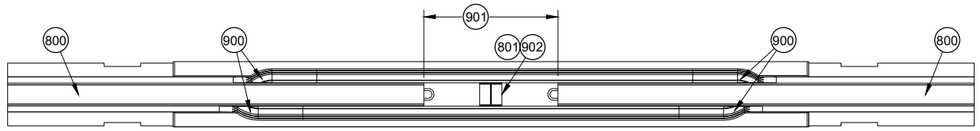
PLAN VIEW
GAP WITHIN SPACING



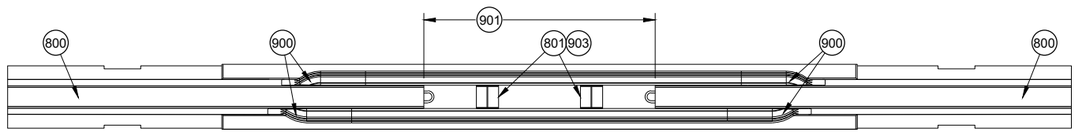
PLAN VIEW
TEMPORARY BARRIER GAP OVER 4" TO 1' MAX. (904)

GENERAL NOTES

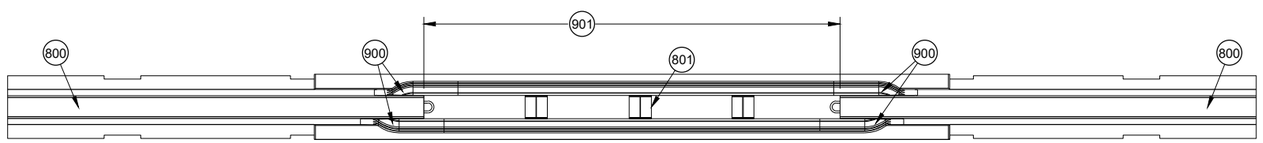
(900) SEE OTHER DETAILS FOR TEMPORARY GAP HARDWARE (TYP.)
(901) TEMPORARY BARRIER GAP
(902) GAP STIFFENER ASSEMBLY CENTERED IN THE GAP.
(903) GAP STIFFENER ASSEMBLY IS OFFSET 18 ¾" FROM CENTER
(904) MINIMUM NUMBER OF GAP STIFFENERS SHOWN FOR THE GAP RANGE SHOWN.
(905) MINIMUM OF 8 CONTINUOUS FREE STANDING TEMPORARY BARRIERS



PLAN VIEW
TEMPORARY BARRIER GAP OVER 1' TO 4' MAX. (904)



PLAN VIEW
TEMPORARY BARRIER GAP OVER 4' TO 7' MAX. (904)



PLAN VIEW
TEMPORARY BARRIER GAP OVER 7' TO 12.5' MAX. (904)

6

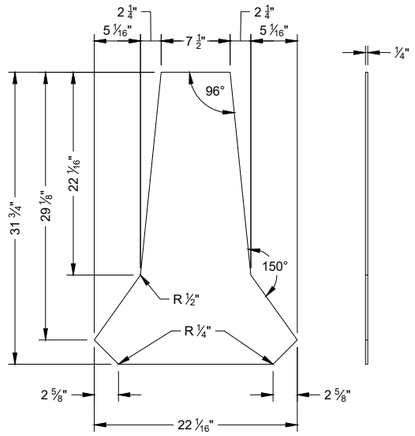
SDD 14B07-16i

CONCRETE BARRIER TEMPORARY PRECAST, 12' - 6"

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

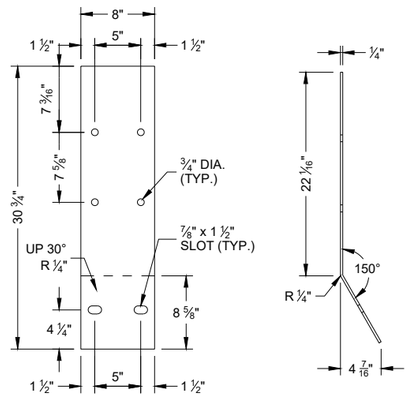
6

SDD 14B07-16i



PROFILE VIEW SIDE VIEW

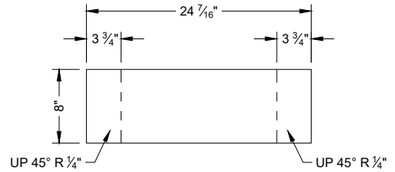
STIFFENER ASSEMBLY CENTER PANEL U1



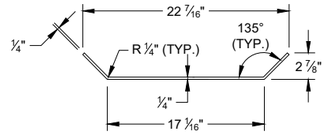
FLAT PATTERN

SIDE VIEW

STIFFENER ASSEMBLY SIDE PANEL U2

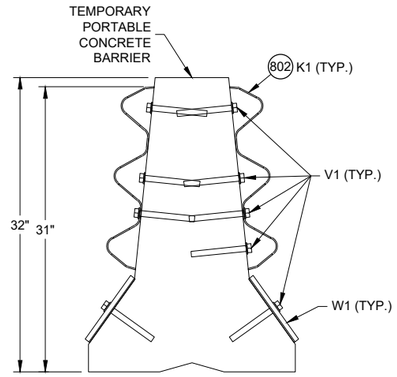


FLAT PATTERN

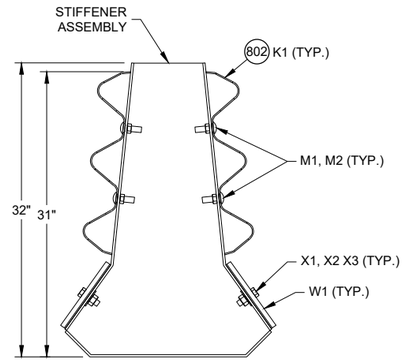


PROFILE VIEW

STIFFENER ASSEMBLY BOTTOM PANEL U3

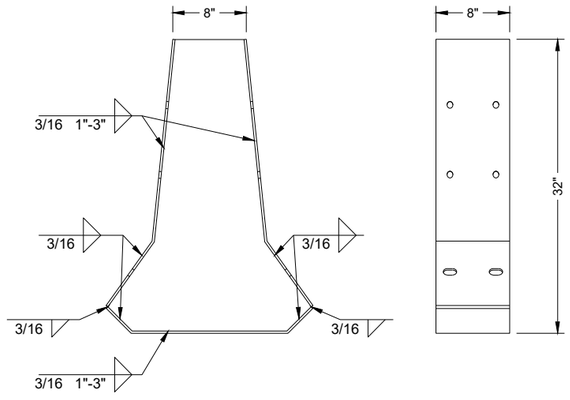


SECTION A - A



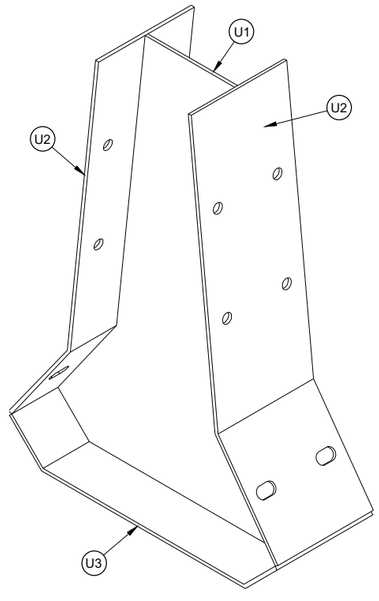
SECTION B - B

PLAN VIEW



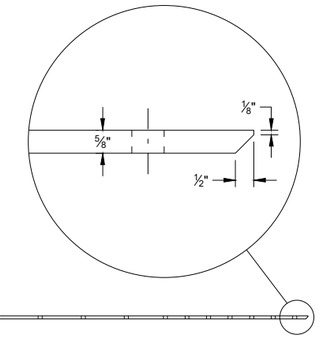
PROFILE VIEW

SIDE VIEW

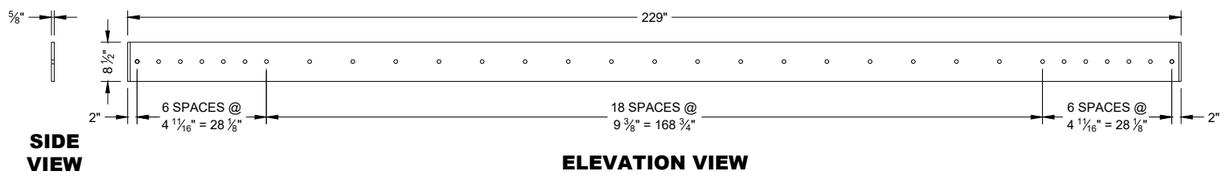


ISOMETRIC

GAP STIFFENER ASSEMBLY



PLAN VIEW



SIDE VIEW

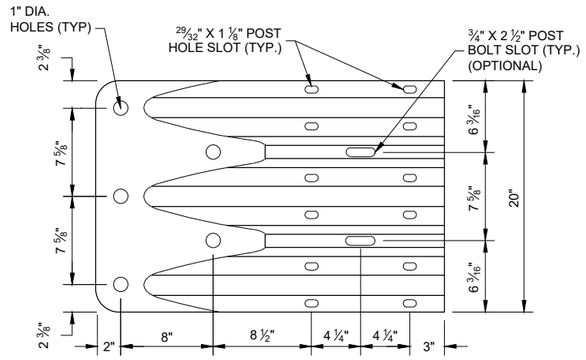
ELEVATION VIEW

W1 TOE PLATE

CONCRETE BARRIER TEMPORARY PRECAST, 12' - 6"

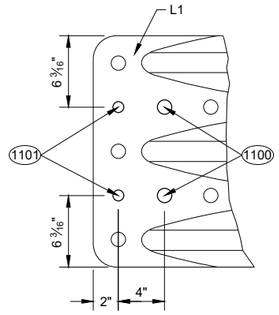
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6
SDD 14B07-16j



ELEVATION VIEW

THRIE BEAM TERMINAL CONNECTOR



ELEVATION VIEW

ADDITIONAL THRIE BEAM (1102) TERMINAL CONNECTOR HOLE DETAIL

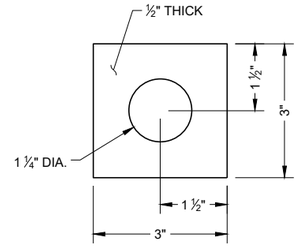


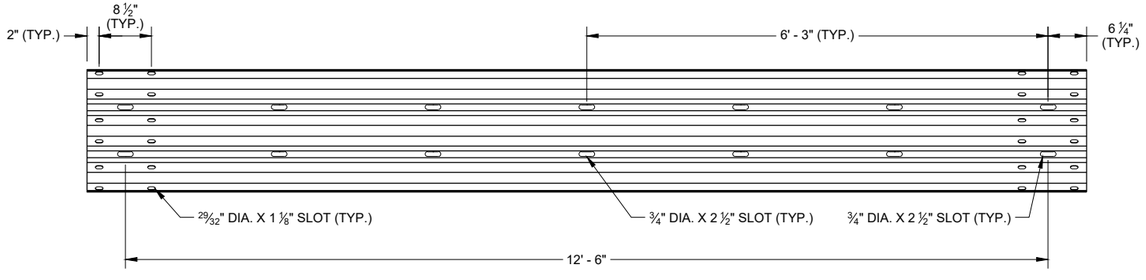
PLATE WASHER DETAIL G2, H3

GENERAL NOTES

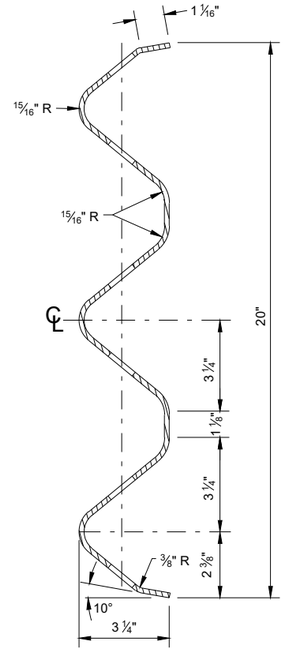
(1100) 1" DIA. HOLE

(1101) 3/4" DIA. HOLE

(1102) PROVIDE HOLES IN THRIE BEAM TERMINAL CONNECTOR TO LIMIT STEEL REINFORCEMENT OR LOOP BAR CONFLICT. CONTRACTOR MAY FIELD DRILL ADDITIONAL HOLE OR PROVIDE THRIE BEAM TERMINAL CONNECTOR WITH ADDITIONAL HOLES FROM SUPPLIER.



SLOTTED THRIE BEAM RAIL K1



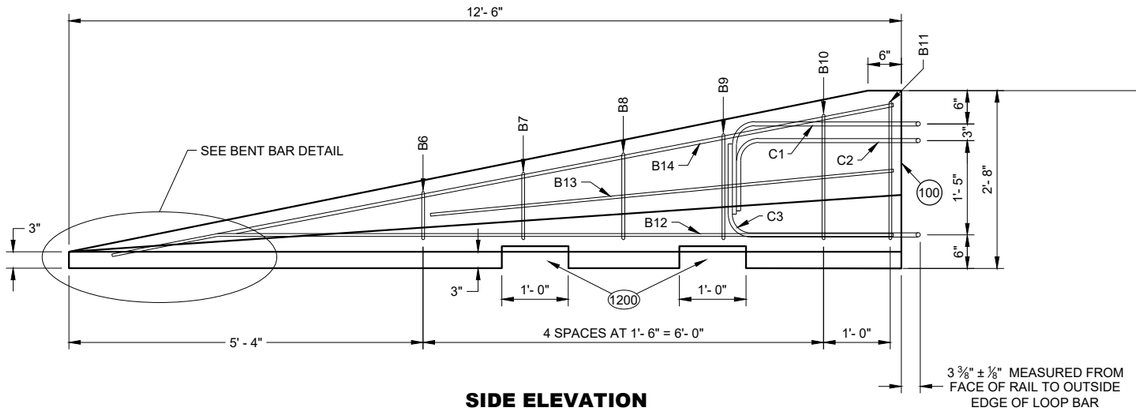
SECTION THROUGH BEAM K1

CONCRETE BARRIER TEMPORARY PRECAST, 12' - 6"

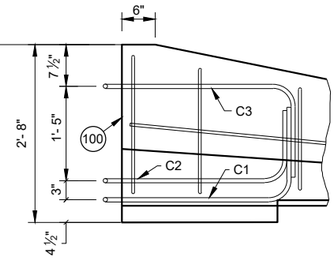
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

SDD 14B07-16k



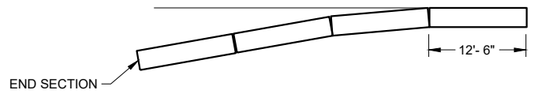
SIDE ELEVATION
(FOR CONNECTION TO LEFT END OF BARRIER)



SIDE ELEVATION
LOOP BAR ASSEMBLY INVERTED FOR OPPOSITE END
(FOR CONNECTION TO RIGHT END OF BARRIER)

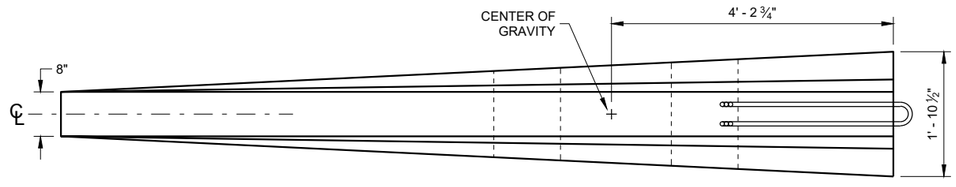
GENERAL NOTES

(1200) SEE LIFTING SLOT DETAIL. LOCATION OF LIFTING SLOTS DETERMINED BY CONTRACTOR.

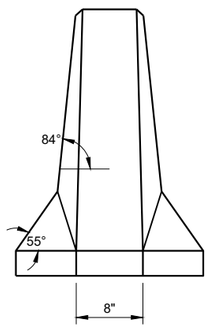


FLARE AT BARRIER END

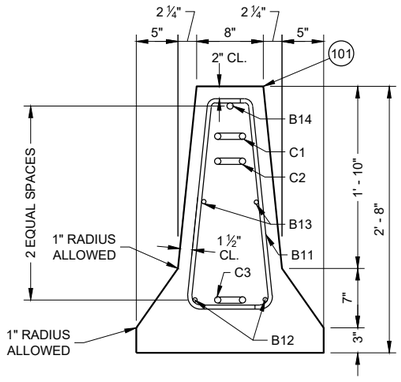
POSTED SPEED, (MPH)	FLARE RATE
40 OR LESS	6:1
45 OR GREATER	8:1



PLAN VIEW

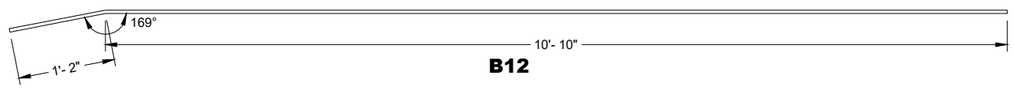


FRONT ELEVATION

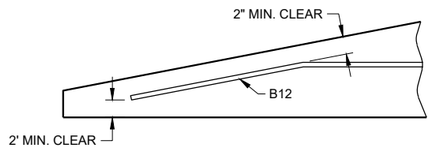


END SECTION

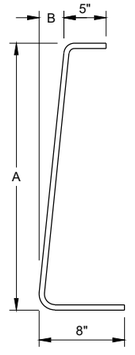
DETAILS OF BARRIER TAPER SECTION



B12



BENT BAR DETAIL



BAR	A	B
B6	10"	1"
B7	1'- 1"	1 ¼"
B8	1'- 5"	1 ⅝"
B9	1'- 8"	1 ⅞"
B10	2'- 0 ½"	2 ⅜"
B11	2'- 3"	2 ¾"

B BARS

2 OF EACH SIZE REQUIRED FOR STIRRUP ASSEMBLY

CONCRETE BARRIER TEMPORARY PRECAST, 12' - 6"

BILL OF MATERIALS - CONCRETE BARRIER PRECAST

PART	DESCRIPTION	MATERIALS SPECIFICATIONS	NOTES
A1	PRECAST TEMPORARY BARRIER - CONCRETE	MIN. = f'c 5000 PSI	
B1	REBAR	STANDARD SPEC. 505.2 GRADE 60 UNCOATED REBAR	#5 REBAR, LENGTH 12'-2"
B2	REBAR	STANDARD SPEC. 505.2 GRADE 60 UNCOATED REBAR	#4 REBAR, LENGTH 12'-2"
B3	REBAR	STANDARD SPEC. 505.2 GRADE 60 UNCOATED REBAR	#5 REBAR, LENGTH 12'-2"
B4	REBAR	STANDARD SPEC. 505.2 GRADE 60 UNCOATED REBAR	#4 REBAR, LENGTH 6'-0"
B5	REBAR	STANDARD SPEC. 505.2 GRADE 60 UNCOATED REBAR	#6 REBAR, LENGTH 2'-11"
B6	REBAR	STANDARD SPEC. 505.2 GRADE 60 UNCOATED REBAR	#4 REBAR, LENGTH 1'-11"
B7	REBAR	STANDARD SPEC. 505.2 GRADE 60 UNCOATED REBAR	#4 REBAR, LENGTH 2'-2"
B8	REBAR	STANDARD SPEC. 505.2 GRADE 60 UNCOATED REBAR	#4 REBAR, LENGTH 2'-6"
B9	REBAR	STANDARD SPEC. 505.2 GRADE 60 UNCOATED REBAR	#4 REBAR, LENGTH 2'-9"
B10	REBAR	STANDARD SPEC. 505.2 GRADE 60 UNCOATED REBAR	#4 REBAR, LENGTH 3'-2"
B11	REBAR	STANDARD SPEC. 505.2 GRADE 60 UNCOATED REBAR	#4 REBAR, LENGTH 3'-4"
B12	REBAR	STANDARD SPEC. 505.2 GRADE 60 UNCOATED REBAR	#4 REBAR, LENGTH 12'-0"
B13	REBAR	STANDARD SPEC. 505.2 GRADE 60 UNCOATED REBAR	#4 REBAR, LENGTH 7'-9"
B14	REBAR	STANDARD SPEC. 505.2 GRADE 60 UNCOATED REBAR	#5 REBAR, LENGTH 11'-9"
C1	LOOP BAR	ASTM A709 GRADE 70 SMOOTH BAR OR ASTM A706 GRADE 60 REBAR UNCOATED	¾" DIA.
C2	LOOP BAR	ASTM A709 GRADE 70 SMOOTH BAR OR ASTM A706 GRADE 60 REBAR UNCOATED	¾" DIA.
C3	LOOP BAR	ASTM A709 GRADE 70 SMOOTH BAR OR ASTM A706 GRADE 60 REBAR UNCOATED	¾" DIA.
D1	CONNECTION PIN - ROD	ASTM A36 MIN. STRENGTH 36 KSI / ASTM A529 MAX. STRENGTH 50 KSI / ASTM A572 MAX STRENGTH 50 KSI / ASTM A709 MAX STRENGTH 50 KSI / ASTM A992 MAX STRENGTH 50 KSI	1 ¼" DIA.
D2	CONNECTION PIN - TOP PLATE	ASTM A36 MIN. STRENGTH 36 KSI / ASTM A529 MAX. STRENGTH 50 KSI / ASTM A572 MAX STRENGTH 50 KSI / ASTM A709 MAX STRENGTH 50 KSI / ASTM A992 MAX STRENGTH 50 KSI	
G1	BOLT THROUGH ANCHOR - THREADED ROD	HOT DIP AASHTO M232 CLASS / ASTM A153 CLASS C / ASTM F2329 C OR MECHANICAL GALVANIZE TO AASHTO M298 CLASS 55 TYPE 2 / ASTM B695 CLASS 55 TYPE 2 A307 GRADE A OR SAE J429 GRADE 2 UNC	1 ⅛" DIA.
G2	BOLT THROUGH ANCHOR - WASHER, SQUARE	ASTM A36 MIN. STRENGTH 36 KSI / ASTM A529 MAX. STRENGTH 50 KSI / ASTM A572 MAX STRENGTH 50 KSI / ASTM A709 MAX STRENGTH 50 KSI / ASTM A992 MAX STRENGTH 50 KSI	
G3	BOLT THROUGH ANCHOR - NUT	HOT DIP AASHTO M232 CLASS / ASTM A153 CLASS C / ASTM F2329 C OR MECHANICAL GALVANIZE TO AASHTO M298 CLASS 55 TYPE 2 / ASTM B695 CLASS 55 UNC OVER TAP NUTS AS SPECIFIED IN AASHTO 291 / ASTM A 563 HEAVY HEX HEAD ASTM A563DH OR SAE J995 GRADE 5	
H1	ADHESIVE ANCHOR - ADHESIVE	ICC-ES-AC308 5 ¼" EMBEDMENT WITH A MIN. BOND STRENGTH OF 1,650 PSI. SEE 603.2 AND 603.3.1.2 OF THE WISCONSIN STANDARD SPECIFICATIONS FOR MORE INFORMATION ON ADHESIVE ANCHORS.	
H2	ADHESIVE ANCHOR - THREADED ROD	HOT DIP AASHTO M232 CLASS / ASTM A153 CLASS C / ASTM F2329 C OR MECHANICAL GALVANIZE TO AASHTO M298 CLASS 55 TYPE 2 / ASTM B695 CLASS 55 TYPE 2 A307 GRADE A / SAE J429 GRADE 2 UNC	1 ⅛" DIA.
H3	ADHESIVE ANCHOR - WASHER, SQUARE	ASTM A36 MIN. STRENGTH 36 KSI / ASTM A529 MAX. STRENGTH 50 KSI / ASTM A572 MAX STRENGTH 50 KSI / ASTM A709 MAX STRENGTH 50 KSI / ASTM A992 MAX STRENGTH 50 KSI	
H4	ADHESIVE ANCHOR - NUT	HOT DIP AASHTO M232 CLASS / ASTM A153 CLASS C / ASTM F2329 C OR MECHANICAL GALVANIZE TO AASHTO M298 CLASS 55 TYPE 2 / ASTM B695 CLASS 55 UNC OVER TAP NUTS AS SPECIFIED IN AASHTO 291 / ASTM A 563 HEAVY HEX HEAD ASTM A563DH OR SAE J995 GRADE 5	
J1	ASPHALT ANCHOR PIN - ROD	ASTM A36 MIN. STRENGTH 36 KSI / ASTM A529 MAX. STRENGTH 50 KSI / ASTM A572 MAX STRENGTH 50 KSI / ASTM A709 MAX STRENGTH 50 KSI / ASTM A992 MAX STRENGTH 50 KSI	1 ½" DIA.
J2	ASPHALT ANCHOR PIN - STOP PLATE	ASTM A36 MIN. STRENGTH 36 KSI / ASTM A529 MAX. STRENGTH 50 KSI / ASTM A572 MAX STRENGTH 50 KSI / ASTM A709 MAX STRENGTH 50 KSI / ASTM A992 MAX STRENGTH 50 KSI	
K1	THRIE BEAM RAIL	AASHTO M180 CLASS A TYPE 2 APPROVED PRODUCER	12 GAUGE
L1	THRIE BEAM RAIL - TERMINAL	AASHTO M180 CLASS A TYPE 2 APPROVED PRODUCER	12 GAUGE

PART	DESCRIPTION	MATERIALS SPECIFICATIONS	NOTES
M1	SPLICE BOLT	HOT DIP AASHTO M232 CLASS / ASTM A153 CLASS C / ASTM F2329 C OR MECHANICAL GAL. TO AASHTO M298 CLASS 55 TYPE 2 / ASTM B695 CLASS 55 TYPE 2 UNC AASHTO M180 HEAD ASTM A307 GRADE B OR SAE J429 GRADE 2 OR ASTM F1554 GRADE 36	⅝" DIA.
M2	SPLICE BOLT - NUT	HOT DIP AASHTO M232 CLASS / ASTM A153 CLASS C / ASTM F2329 C OR MECHANICAL GALVANIZE TO AASHTO M298 CLASS 55 TYPE 2 / ASTM B695 CLASS 55 UNC OVER TAP NUTS AS SPECIFIED IN AASHTO 291 / ASTM A 563 AASHTO M180 RECESSED HEAVY HEX HEAD ASTM A563DH OR SAE J995 GRADE 5	
N1	THRIE BEAM RAIL TERMINAL - MECHANICAL ANCHOR	HOT DIP AASHTO M232 CLASS / ASTM A153 CLASS C / ASTM F2329 C OR MECHANICAL GALVANIZE TO AASHTO M298 CLASS 55 TYPE 2 / ASTM B695 CLASS 55 UNC OVER TAP NUTS AS SPECIFIED IN AASHTO 291 / ASTM A 563 AASHTO M180 RECESSED HEAVY HEX HEAD ASTM A563DH OR SAE J995 GRADE 5	¾" DIA. LENGTH 6"
N2	THRIE BEAM RAIL TERMINAL - WASHER	HOT DIP AASHTO M232 CLASS / ASTM A153 CLASS C / ASTM F2329 C OR MECHANICAL GALVANIZE TO AASHTO M298 CLASS 55 TYPE 2 / ASTM B695 CLASS 55 TYPE 2 F436 TYPE 1	
N3	THRIE BEAM RAIL TERMINAL MECHANICAL OR ADHESIVE ANCHOR	MINIMUM MECHANICAL OR ADHESIVE ANCHOR STRENGTH REQUIREMENTS: ULTIMATE TENSILE LOAD 17.9 KIPS AND ULTIMATE SHEAR LOAD 21.96 KIPS. SEE 603.2 AND 603.3.1.2 OF THE WISCONSIN STANDARD SPECIFICATIONS FOR MORE INFORMATION ON ADHESIVE ANCHORS.	
P1	THRIE BEAM RAIL CONNECTION 1-BOLT	HOT DIP AASHTO M232 CLASS / ASTM A153 CLASS C / ASTM F2329 C OR MECHANICAL GALVANIZE TO AASHTO M298 CLASS 55 TYPE 2 / ASTM B695 CLASS 55 UNC OVER TAP NUTS AS SPECIFIED IN AASHTO 291 / ASTM A 563 AASHTO M180 RECESSED HEAVY HEX HEAD ASTM A563DH OR SAE J995 GRADE 5	¾" DIA.
P2	THRIE BEAM RAIL CONNECTION 1-WASHER	HOT DIP AASHTO M232 CLASS / ASTM A153 CLASS C / ASTM F2329 C OR MECHANICAL GAL. TO AASHTO M298 CLASS 55 TYPE 2 / ASTM B695 CLASS 55 TYPE 2 F436 TYPE 1	
P3	THRIE BEAM RAIL CONNETION 1- MECHANICAL OR ADHESIVE ANCHOR	MINIMUM MECHANICAL OR ADHESIVE ANCHOR STRENGTH REQUIREMENTS: ULTIMATE TENSILE LOAD 9.48 KIPS AND ULTIMATE SHEAR LOAD 10.48 KIPS. SEE 603.2 AND 603.3.1.2 OF THE WISCONSIN STANDARD SPECIFICATIONS FOR MORE INFORMATION ON ADHESIVE ANCHORS.	
Q1	BLOCK WOOD	SEE STANDARD SPEC. 614	
R1	CAP - BOLT	HOT DIP AASHTO M232 CLASS / ASTM A153 CLASS C / ASTM F2329 C OR MECHANICAL GALVANIZE TO AASHTO M298 CLASS 55 TYPE 2 / ASTM B695 CLASS 55 UNC OVER TAP NUTS AS SPECIFIED IN AASHTO 291 / ASTM A 563 AASHTO M180 RECESSED HEAVY HEX HEAD ASTM A563DH OR SAE J995 GRADE 5	⅝" DIA.
R2	CAP- BOLT - WASHER	HOT DIP AASHTO M232 CLASS / ASTM A153 CLASS C / ASTM F2329 C OR MECHANICAL GAL. TO AASHTO M298 CLASS 55 TYPE 2 / ASTM B695 CLASS 55 TYPE 2 F436 TYPE 1	
R3	CAP - BOLT - MECHANICAL ANCHOR	MINIMUM MECHANICAL OR ADHESIVE ANCHOR STRENGTH REQUIREMENTS ULTIMATE TENSILE LOAD 12.14 KIPS AND ULTIMATE SHEAR LOAD 17.5 KIPS.SEE 603.2 AND 603.3.1.2 OF THE WISCONSIN STANDARD SPECIFICATIONS FOR MORE INFORMATION ON ADHESIVE ANCHORS.	12 GAUGE
S1	CAP 42-INCH TOP PLATE	AASHTO M111 / ASTM A123 ASTM A36 MIN. STRENGTH 36 KSI, OR ASTM A529 MAX. STRENGTH 50 KSI, OR ASTM A572 MAX. STRENGTH 50 KSI, OR ASTM A709 MAX. STRENGTH 50 KSI, OR ASTM A992 MAX. STRENGTH 50 KSI	12 GAUGE
S2	CAP 42-INCH END PLATE	AASHTO M111 / ASTM A123 ASTM A36 MIN. STRENGTH 36 KSI, OR ASTM A529 MAX. STRENGTH 50 KSI, OR ASTM A572 MAX. STRENGTH 50 KSI, OR ASTM A709 MAX. STRENGTH 50 KSI, OR ASTM A992 MAX. STRENGTH 50 KSI	12 GAUGE
S3	CAP 42-INCH SIDE PLATE	AASHTO M111 / ASTM A123 ASTM A36 MIN. STRENGTH 36 KSI, OR ASTM A529 MAX. STRENGTH 50 KSI, OR ASTM A572 MAX. STRENGTH 50 KSI, OR ASTM A709 MAX. STRENGTH 50 KSI, OR ASTM A992 MAX. STRENGTH 50 KSI	12 GAUGE
S4	CAP 42-INCH GUSSET 1	AASHTO M111 / ASTM A123 ASTM A36 MIN. STRENGTH 36 KSI, OR ASTM A529 MAX. STRENGTH 50 KSI, OR ASTM A572 MAX. STRENGTH 50 KSI, OR ASTM A709 MAX. STRENGTH 50 KSI, OR ASTM A992 MAX. STRENGTH 50 KSI	12 GAUGE
S5	CAP 42-INCH GUSSET 2	AASHTO M111 / ASTM A123 ASTM A36 MIN. STRENGTH 36 KSI, OR ASTM A529 MAX. STRENGTH 50 KSI, OR ASTM A572 MAX. STRENGTH 50 KSI, OR ASTM A709 MAX. STRENGTH 50 KSI, OR ASTM A992 MAX. STRENGTH 50 KSI	12 GAUGE
S6	CAP 42-INCH GUSSET 3	AASHTO M111 / ASTM A123 ASTM A36 MIN. STRENGTH 36 KSI, OR ASTM A529 MAX. STRENGTH 50 KSI, OR ASTM A572 MAX. STRENGTH 50 KSI, OR ASTM A709 MAX. STRENGTH 50 KSI, OR ASTM A992 MAX. STRENGTH 50 KSI	12 GAUGE
S7	CAP 42-INCH GUSSET 4	AASHTO M111 / ASTM A123 ASTM A36 MIN. STRENGTH 36 KSI, OR ASTM A529 MAX. STRENGTH 50 KSI, OR ASTM A572 MAX. STRENGTH 50 KSI, OR ASTM A709 MAX. STRENGTH 50 KSI, OR ASTM A992 MAX. STRENGTH 50 KSI	12 GAUGE

6

SDD 14B07-16m

CONCRETE BARRIER TEMPORARY PRECAST, 12' - 6"

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

SDD 14B07-16m

BILL OF MATERIALS - CONCRETE BARRIER PRECAST

PART	DESCRIPTION	MATERIALS SPECIFICATIONS	NOTES
T1	CAP 56-INCH TOP PLATE	AASHTO M111 / ASTM A123 ASTM A36 MIN. STRENGTH 36 KSI, OR ASTM A529 MAX. STRENGTH 50 KSI, OR ASTM A572 MAX. STRENGTH 50 KSI, OR ASTM A709 MAX. STRENGTH 50 KSI, OR ASTM A992 MAX. STRENGTH 50 KSI	12 GAUGE
T2	CAP 56-INCH END PLATE	AASHTO M111 / ASTM A123 ASTM A36 MIN. STRENGTH 36 KSI, OR ASTM A529 MAX. STRENGTH 50 KSI, OR ASTM A572 MAX. STRENGTH 50 KSI, OR ASTM A709 MAX. STRENGTH 50 KSI, OR ASTM A992 MAX. STRENGTH 50 KSI	12 GAUGE
T3	CAP 56-INCH SIDE PLATE 1	AASHTO M111 / ASTM A123 ASTM A36 MIN. STRENGTH 36 KSI, OR ASTM A529 MAX. STRENGTH 50 KSI, OR ASTM A572 MAX. STRENGTH 50 KSI, OR ASTM A709 MAX. STRENGTH 50 KSI, OR ASTM A992 MAX. STRENGTH 50 KSI	12 GAUGE
T4	CAP 56-INCH SIDE PLATE 2	AASHTO M111 / ASTM A123 ASTM A36 MIN. STRENGTH 36 KSI, OR ASTM A529 MAX. STRENGTH 50 KSI, OR ASTM A572 MAX. STRENGTH 50 KSI, OR ASTM A709 MAX. STRENGTH 50 KSI, OR ASTM A992 MAX. STRENGTH 50 KSI	12 GAUGE
T5	CAP 56-INCH GUSSET 1	AASHTO M111 / ASTM A123 ASTM A36 MIN. STRENGTH 36 KSI, OR ASTM A529 MAX. STRENGTH 50 KSI, OR ASTM A572 MAX. STRENGTH 50 KSI, OR ASTM A709 MAX. STRENGTH 50 KSI, OR ASTM A992 MAX. STRENGTH 50 KSI	12 GAUGE
T6	CAP 56-INCH GUSSET 2	AASHTO M111 / ASTM A123 ASTM A36 MIN. STRENGTH 36 KSI, OR ASTM A529 MAX. STRENGTH 50 KSI, OR ASTM A572 MAX. STRENGTH 50 KSI, OR ASTM A709 MAX. STRENGTH 50 KSI, OR ASTM A992 MAX. STRENGTH 50 KSI	12 GAUGE
T7	CAP 56-INCH GUSSET 3	AASHTO M111 / ASTM A123 ASTM A36 MIN. STRENGTH 36 KSI, OR ASTM A529 MAX. STRENGTH 50 KSI, OR ASTM A572 MAX. STRENGTH 50 KSI, OR ASTM A709 MAX. STRENGTH 50 KSI, OR ASTM A992 MAX. STRENGTH 50 KSI	12 GAUGE
T8	CAP 42-INCH GUSSET 4	AASHTO M111 / ASTM A123 ASTM A36 MIN. STRENGTH 36 KSI, OR ASTM A529 MAX. STRENGTH 50 KSI, OR ASTM A572 MAX. STRENGTH 50 KSI, OR ASTM A709 MAX. STRENGTH 50 KSI, OR ASTM A992 MAX. STRENGTH 50 KSI	12 GAUGE
T9	CAP 42-INCH GUSSET 5	AASHTO M111 / ASTM A123 ASTM A36 MIN. STRENGTH 36 KSI, OR ASTM A529 MAX. STRENGTH 50 KSI, OR ASTM A572 MAX. STRENGTH 50 KSI, OR ASTM A709 MAX. STRENGTH 50 KSI, OR ASTM A992 MAX. STRENGTH 50 KSI	12 GAUGE
T10	CAP 42-INCH GUSSET 6	AASHTO M111 / ASTM A123 ASTM A36 MIN. STRENGTH 36 KSI, OR ASTM A529 MAX. STRENGTH 50 KSI, OR ASTM A572 MAX. STRENGTH 50 KSI, OR ASTM A709 MAX. STRENGTH 50 KSI, OR ASTM A992 MAX. STRENGTH 50 KSI	12 GAUGE
T11	CAP 42-INCH GUSSET 7	AASHTO M111 / ASTM A123 ASTM A36 MIN. STRENGTH 36 KSI, OR ASTM A529 MAX. STRENGTH 50 KSI, OR ASTM A572 MAX. STRENGTH 50 KSI, OR ASTM A709 MAX. STRENGTH 50 KSI, OR ASTM A992 MAX. STRENGTH 50 KSI	12 GAUGE
T12	CAP 42-INCH GUSSET 8	AASHTO M111 / ASTM A123 ASTM A36 MIN. STRENGTH 36 KSI, OR ASTM A529 MAX. STRENGTH 50 KSI, OR ASTM A572 MAX. STRENGTH 50 KSI, OR ASTM A709 MAX. STRENGTH 50 KSI, OR ASTM A992 MAX. STRENGTH 50 KSI	12 GAUGE
T13	CAP 42-INCH GUSSET 9	AASHTO M111 / ASTM A123 ASTM A36 MIN. STRENGTH 36 KSI, OR ASTM A529 MAX. STRENGTH 50 KSI, OR ASTM A572 MAX. STRENGTH 50 KSI, OR ASTM A709 MAX. STRENGTH 50 KSI, OR ASTM A992 MAX. STRENGTH 50 KSI	12 GAUGE
T14	CAP 42-INCH GUSSET 10	AASHTO M111 / ASTM A123 ASTM A36 MIN. STRENGTH 36 KSI, OR ASTM A529 MAX. STRENGTH 50 KSI, OR ASTM A572 MAX. STRENGTH 50 KSI, OR ASTM A709 MAX. STRENGTH 50 KSI, OR ASTM A992 MAX. STRENGTH 50 KSI	12 GAUGE
T15	CAP 42-INCH GUSSET 11	AASHTO M111 / ASTM A123 ASTM A36 MIN. STRENGTH 36 KSI, OR ASTM A529 MAX. STRENGTH 50 KSI, OR ASTM A572 MAX. STRENGTH 50 KSI, OR ASTM A709 MAX. STRENGTH 50 KSI, OR ASTM A992 MAX. STRENGTH 50 KSI	12 GAUGE
T16	CAP 42-INCH GUSSET 12	AASHTO M111 / ASTM A123 ASTM A36 MIN. STRENGTH 36 KSI, OR ASTM A529 MAX. STRENGTH 50 KSI, OR ASTM A572 MAX. STRENGTH 50 KSI, OR ASTM A709 MAX. STRENGTH 50 KSI, OR ASTM A992 MAX. STRENGTH 50 KSI	12 GAUGE
U1	GAP STIFFENER	AASHTO M111 / ASTM A123 ASTM A36 MIN. STRENGTH 36 KSI, OR ASTM A529 MAX. STRENGTH 50 KSI, OR ASTM A572 MAX. STRENGTH 50 KSI, OR ASTM A709 MAX. STRENGTH 50 KSI, OR ASTM A992 MAX. STRENGTH 50 KSI	
U2	GAP STIFFENER - CONNECTOR PLATE 1	AASHTO M111 / ASTM A123 ASTM A36 MIN. STRENGTH 36 KSI, OR ASTM A529 MAX. STRENGTH 50 KSI, OR ASTM A572 MAX. STRENGTH 50 KSI, OR ASTM A709 MAX. STRENGTH 50 KSI, OR ASTM A992 MAX. STRENGTH 50 KSI	
U3	GAP STIFFENER - CONNECTOR PLATE 2	AASHTO M111 / ASTM A123 ASTM A36 MIN. STRENGTH 36 KSI, OR ASTM A529 MAX. STRENGTH 50 KSI, OR ASTM A572 MAX. STRENGTH 50 KSI, OR ASTM A709 MAX. STRENGTH 50 KSI, OR ASTM A992 MAX. STRENGTH 50 KSI	

PART	DESCRIPTION	MATERIALS SPECIFICATIONS	NOTES
V1	THRIE BEAM RAIL TERMINAL MECHANICAL OR ADHESIVE ANCHOR	MINIMUM MECHANICAL OR ADHESIVE ANCHOR STRENGTH REQUIREMENTS ULTIMATE TENSILE LOAD 24.0 KIPS AND ULTIMATE SHEAR LOAD 21.5 KIPS. SEE 603.2 AND 603.3.1.2 OF THE WISCONSIN STANDARD SPECIFICATIONS FOR MORE INFORMATION ON ADHESIVE ANCHORS.	¾" DIA.
V2	GAP STIFFENER - BOLT - NUT	HOT DIP AASHTO M232 CLASS / ASTM A153 CLASS C / ASTM F2329 C O R MECHANICAL GALVANIZE TO AASHTO M298 CLASS 50 TYPE 1 / ASTM B695 CLASS 50 TYPE 1 UNC OVER TAP NUTS AS SPECIFIED IN AASHTO 291/ASTM A 563 HEAVY HEX HEAD ASTM A563DH OR SAE J995 GRADE 5	
W1	TOE PLATE	AASHTO M111/ASTM A123 ASTM A36 MIN STRENGTH 36 KSI, OR ASTM A529 MAX. STRENGTH 50 KSI, OR ASTM A572 MAX. STRENGTH 50 KSI, OR ASTM A709 MAX. STRENGTH 50 KSI, OR ASTM A992 MAX. STRENGTH 50 KSI	
X1	TOE PLATE - CONNECTION BOLT	HOT DIP AASHTO M232 CLASS / ASTM A153 CLASS C / ASTM F2329 C OR MECHANICAL GALVANIZE TO AASHTO M298 CLASS 55 TYPE 2 / ASTM B695 CLASS 55 TYPE 2 UNC HEAVY HEX HEAD OR AASTHO M180 HEAD, ASTM F3125 GRADE A325 TYPE 1 HEAVY HEX HEAD OR SAE J429 GRADE 5 HEAVY HEX HEAD / ASTM A449 TYPE 1 HEAVY HEX HEAD. BOLTS MAY BE FULLY THREADED. PROVIDE ENOUGH THREADING FOR PROPER TIGHTENING OF BOLT.	¾" DIA.
X2	TOE PLATE - CONNECTION BOLT - WASHER	HOT DIP AASHTO M232 CLASS / ASTM A153 CLASS C / ASTM F2329 C OR MECHANICAL GALVANIZE TO AASHTO M298 CLASS 55 TYPE 2 / ASTM B695 CLASS 55 TYPE 2 F436 TYPE 1 (HARDEN WASHER ONLY)	
X3	TOE PLATE - CONNECTION BOLT - NUT	HOT DIP AASHTO M232 CLASS / ASTM A153 CLASS C / ASTM F2329 C OR MECHANICAL GALVANIZE TO AASHTO M298 CLASS 55 TYPE 2 / ASTM B695 CLASS 55 UNC OVER TAP NUTS AS SPECIFIED IN AASHTO 291 / ASTM A 563 HEAVY HEX HEAD ASTM A563DH OR SAE J995 GRADE 5	

6

SDD 14B07-16n

CONCRETE BARRIER TEMPORARY PRECAST, 12' - 6"

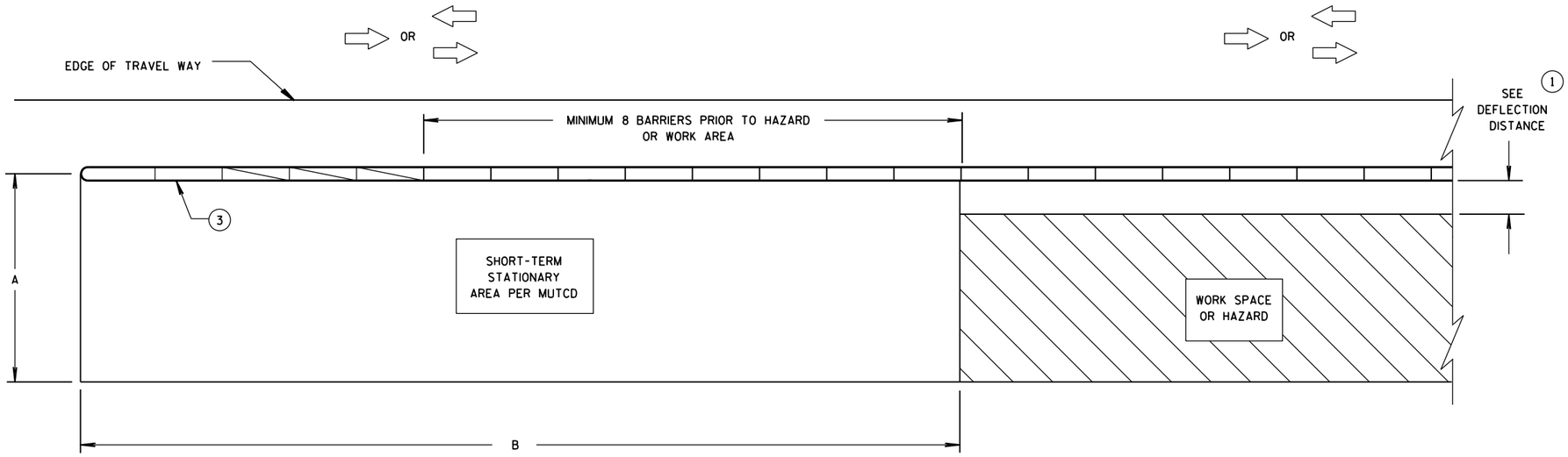
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2023
DATE
/S/ Rodney Taylor
ROADWAY STANDARDS DEVE ENGINEER

FHWA

6

SDD 14B07-16n



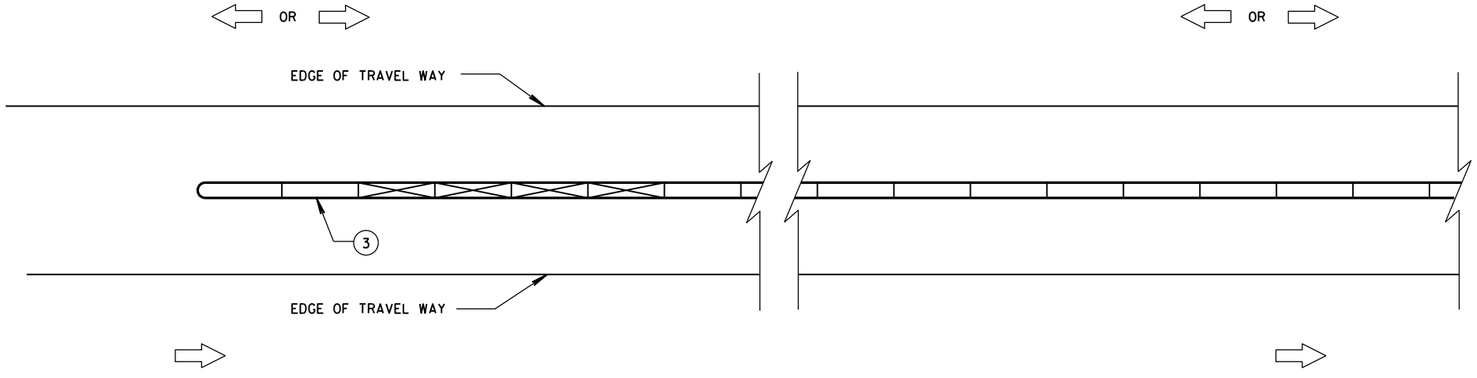
CRASH CUSHION/SAND BARREL ARRAY AND TEMPORARY BARRIER INSTALLATION FOR TRAFFIC ON ONE SIDE OF BARRIER

DIMENSION A TABLE (2)

FACILITY	POSTED SPEED MPH	DIMENSION A	
		MIN. FT	MAX. FT
FREEWAY/EXPRESSWAY	ALL	15	20
NON-FREEWAY/EXPRESSWAY	GREATER THAN OR EQUAL TO 45	10	15
NON-FREEWAY/EXPRESSWAY	LESS THAN 45	8	10
AADT LESS THAN 1,500	ALL	8	10

DIMENSION B TABLE (2)

POSTED SPEEDS MPH	DIMENSION B FT
20	115
25	155
30	200
35	250
40	305
45	360
50	425
55	495
60	570
65	645



CRASH CUSHION/SAND BARREL ARRAY AND TEMPORARY BARRIER INSTALLATION FOR TRAFFIC ON BOTH SIDES OF BARRIER

LEGEND

- DIRECTION OF TRAVEL
- CRASH CUSHION OR SAND BARREL ARRAY
- SEE FREE STANDING TRANSITION TO TIED-DOWN SYSTEM DETAILS
- SEE BI-DIRECTIONAL TRANSITION TO TIED-DOWN SYSTEM DETAILS
- 3 PINS PLACED ON TRAFFIC SIDE OF BARRIER
- PERMANENT CONCRETE BARRIER OR CONCRETE PARAPET
- FREE STANDING TEMPORARY BARRIER

GENERAL NOTES

SEE STANDARD DETAIL DRAWING 14B7 FOR MORE INFORMATION.

DETAILS PROVIDE A GENERAL LAYOUT OF TEMPORARY CONCRETE BARRIER, CRASH CUSHIONS, SAND BARREL ARRAYS AND TIE DOWN TRANSITIONS. DETAILS PROVIDED MAY NOT FIT ALL POSSIBLE SITUATIONS OR SITE CONDITIONS. SEE OTHER SECTIONS OF THE CONTRACT OR PROJECT ENGINEER FOR MORE DETAILS.

ADDITIONAL TEMPORARY BARRIER MAY BE REQUIRED TO PROTECT TRAVELING PUBLIC FROM HAZARDS, CONTRACTOR'S OPERATIONS OR TO CONTROL TRAFFIC.

TEMPORARY BARRIER MAY BE REQUIRED TO BE ANCHORED TO PAVEMENT OR BRIDGE DECK.

FOR DETAILS ON CRASH CUSHION OR SAND BARREL ARRAYS SEE OTHER SECTIONS OF THE PLAN AND MANUFACTURE'S DETAILS.

SLOPES LEADING TO TEMPORARY BARRIER, CRASH CUSHION OR SAND BARREL ARRAY ARE 10:1 OR LESS.

(1) FOR DEFLECTION INFORMATION SEE STANDARD DETAIL DRAWING 14B7.

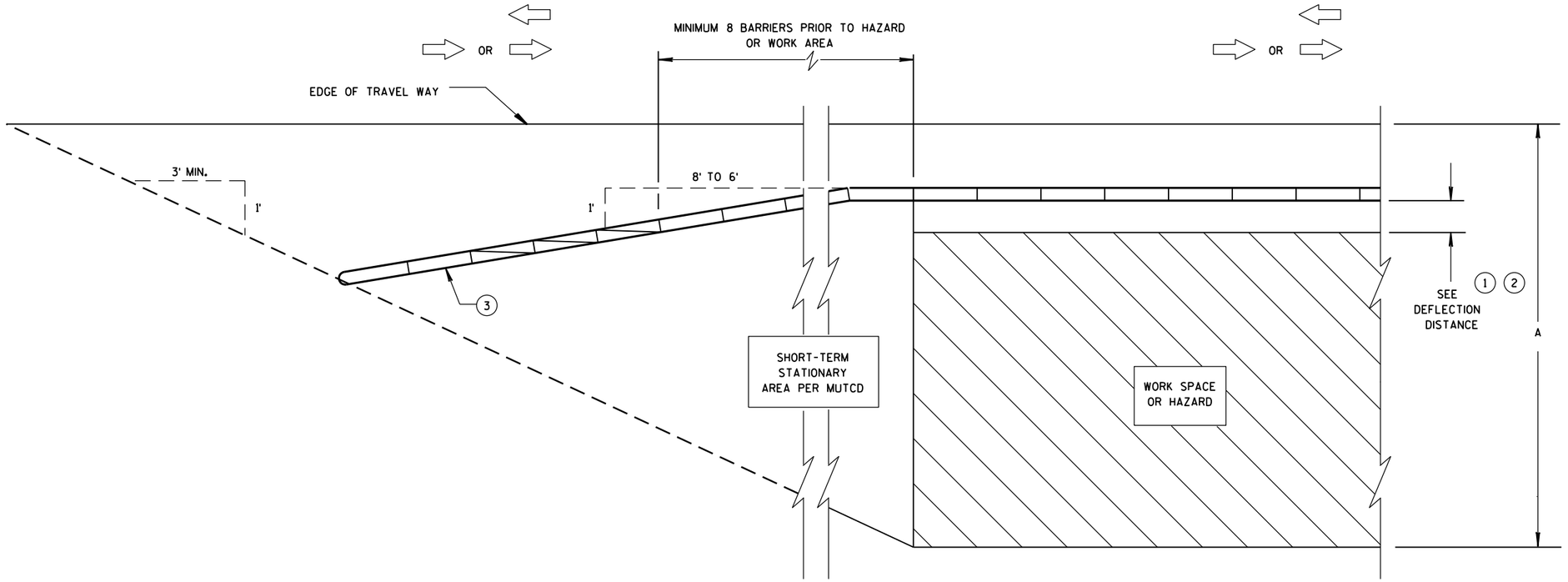
(2) VALUES PROVIDED MAY NOT FIT ALL POSSIBLE SITUATIONS OR SITE CONDITIONS. SEE OTHER SECTIONS OF THE CONTRACT OR PROJECT ENGINEER FOR MORE DETAILS.

(3) ANCHOR TEMPORARY BARRIER ACCORDING TO CRASH CUSHION OR SAND BARREL MANUFACTURER'S RECOMMENDATIONS. IF MANUFACTURER'S RECOMMENDATIONS ARE NOT PROVIDED, ANCHOR 3 PINS ON TRAFFIC SIDE.

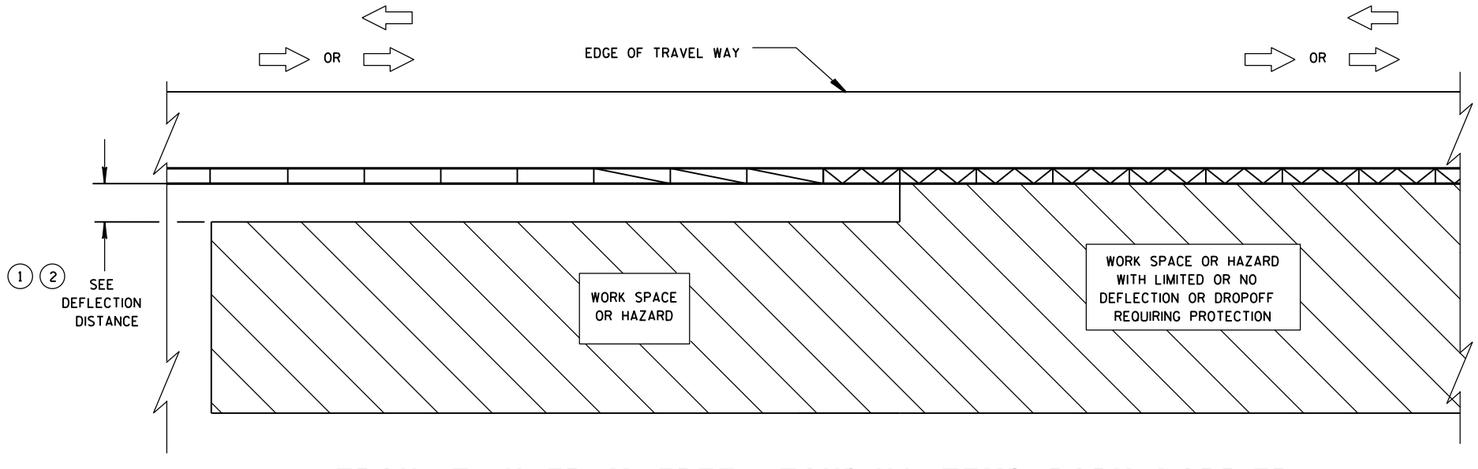
CRASH CUSHION/SAND BARREL ARRAY AND OTHER TEMPORARY BARRIER LAYOUT DETAILS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

6
S.D.D. 14 B 8-2a



CRASH CUSHION/SAND BARREL ARRAY AND TEMPORARY BARRIER INSTALLATION FOR TRAFFIC ON ONE SIDE - FLARED INSTALLATION



TRANSITION FROM FREE STANDING TEMPORARY BARRIER TO ANCHORED BARRIER

LEGEND

- DIRECTION OF TRAVEL
- CRASH CUSHION OR SAND BARREL ARRAY
- SEE FREE STANDING TRANSITION TO TIED-DOWN SYSTEM DETAILS
- SEE BI-DIRECTIONAL TRANSITION TO TIED-DOWN SYSTEM DETAILS
- 3 PINS PLACED ON TRAFFIC SIDE OF BARRIER
- PERMANENT CONCRETE BARRIER OR CONCRETE PARAPET
- FREE STANDING TEMPORARY BARRIER

CRASH CUSHION/SAND BARREL ARRAY AND OTHER TEMPORARY BARRIER LAYOUT DETAILS

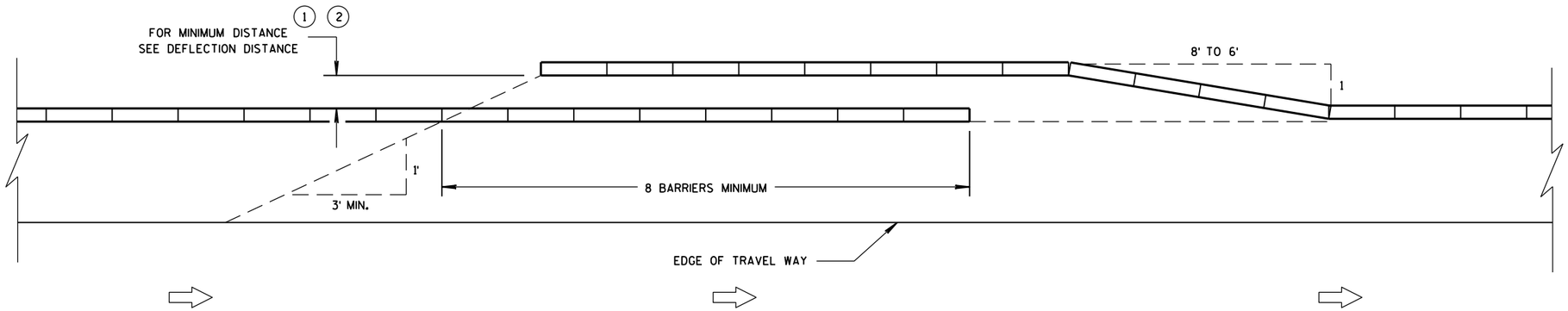
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

6

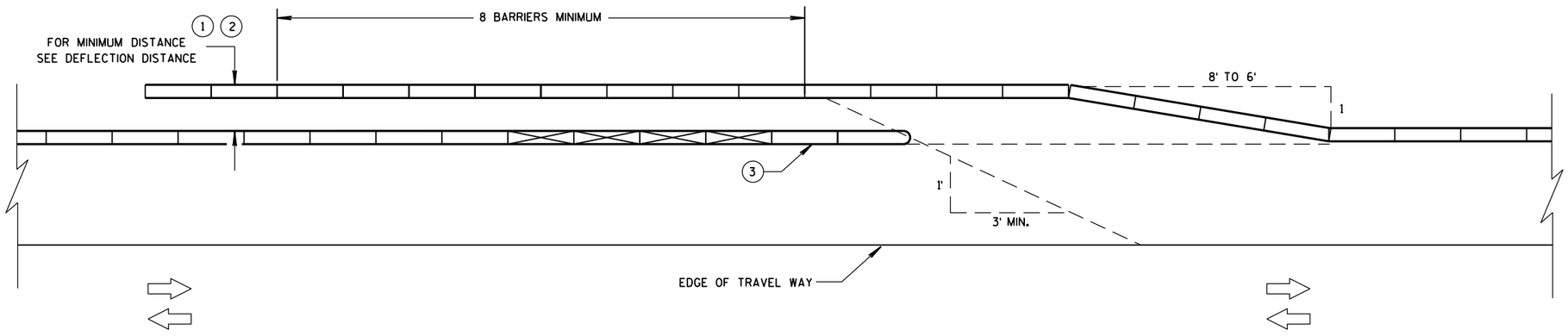
S.D.D. 14 B 8-2b

6

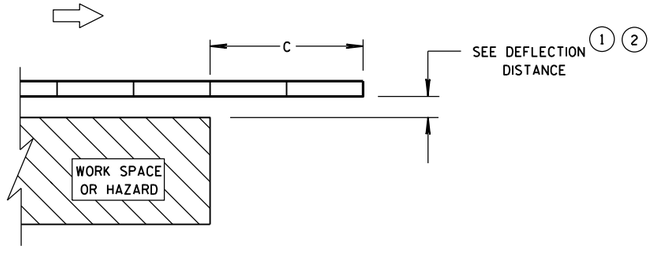
S.D.D. 14 B 8-2b



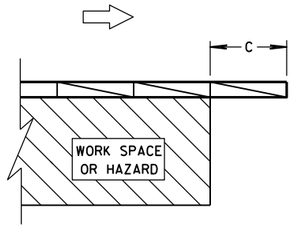
TEMPORARY BARRIER OVERLAP - ONE-WAY TRAFFIC



TEMPORARY BARRIER OVERLAP - TWO-WAY TRAFFIC



ENDING TEMPORARY BARRIER DOWNSTREAM - UNANCHORED



ENDING TEMPORARY BARRIER DOWNSTREAM - ANCHORED

LEGEND

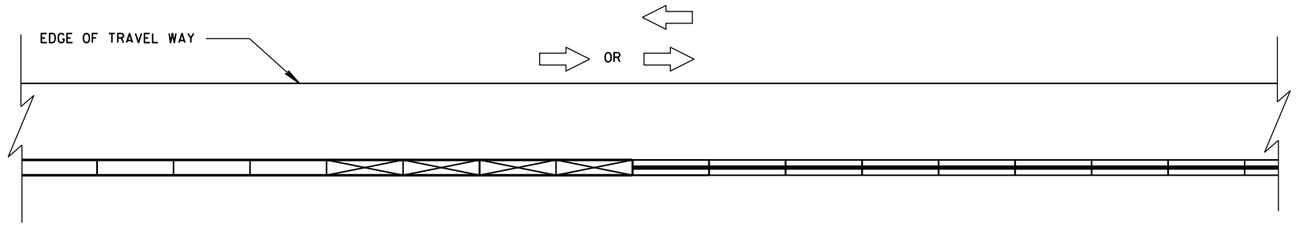
- DIRECTION OF TRAVEL
- CRASH CUSHION OR SAND BARREL ARRAY
- SEE FREE STANDING TRANSITION TO TIED-DOWN SYSTEM DETAILS
- SEE BI-DIRECTIONAL TRANSITION TO TIED-DOWN SYSTEM DETAILS
- 3 PINS PLACED ON TRAFFIC SIDE OF BARRIER
- PERMANENT CONCRETE BARRIER OR CONCRETE PARAPET
- FREE STANDING TEMPORARY BARRIER

CRASH CUSHION/SAND BARREL ARRAY AND OTHER TEMPORARY BARRIER LAYOUT DETAILS

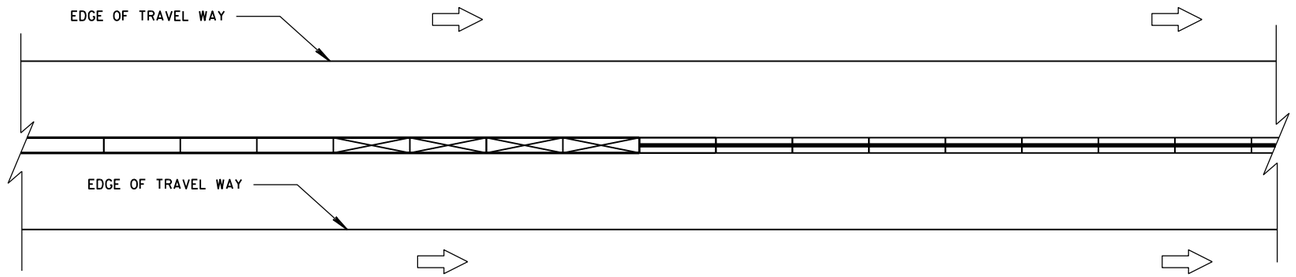
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

6

S.D.D. 14 B 8-2c



CONNECTING TEMPORARY BARRIER TO PERMANENT
CONCRETE BARRIER-TRAFFIC ON ONE SIDE



CONNECTING TEMPORARY BARRIER TO PERMANENT
CONCRETE BARRIER-TRAFFIC ON BOTH SIDES

LEGEND

DIRECTION OF TRAVEL

CRASH CUSHION OR
SAND BARREL ARRAY

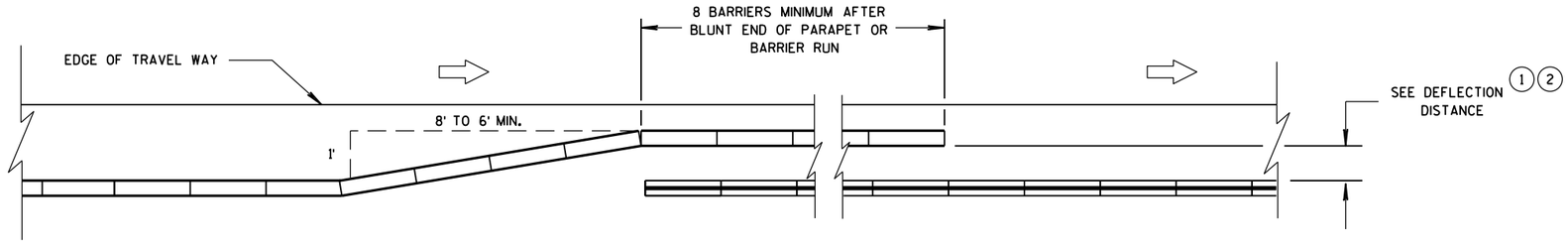
SEE FREE STANDING TRANSITION
TO TIED-DOWN SYSTEM DETAILS

SEE BI-DIRECTIONAL TRANSITION
TO TIED-DOWN SYSTEM DETAILS

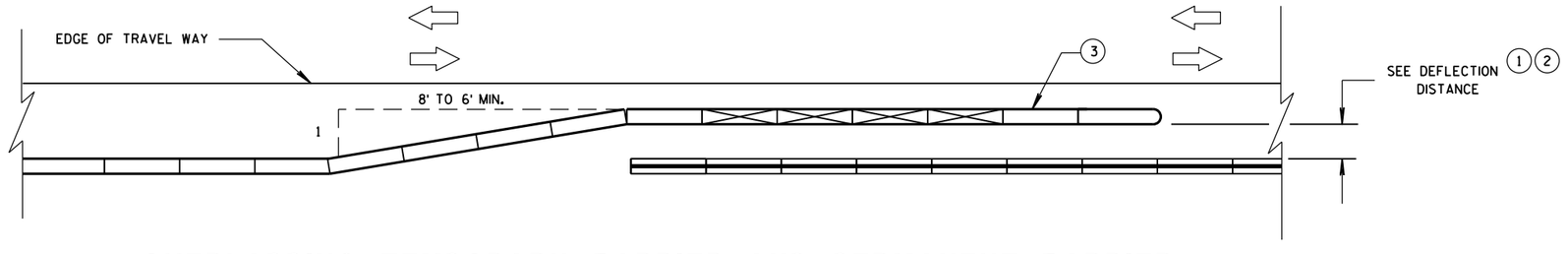
3 PINS PLACED ON
TRAFFIC SIDE OF BARRIER

PERMANENT CONCRETE BARRIER
OR CONCRETE PARAPET

FREE STANDING TEMPORARY
BARRIER



OVERLAPPING TEMPORARY BARRIER AND PERMANENT BARRIER -
ONE WAY TRAFFIC



OVERLAPPING TEMPORARY BARRIER AND PERMANENT BARRIER -
TWO WAY TRAFFIC

CRASH CUSHION/SAND BARREL
ARRAY AND OTHER TEMPORARY
BARRIER LAYOUT DETAILS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

6

S.D.D. 14 B 8-2d

LEGEND

DIRECTION OF TRAVEL

CRASH CUSHION OR SAND BARREL ARRAY

SEE FREE STANDING TRANSITION TO TIED-DOWN SYSTEM DETAILS

SEE BI-DIRECTIONAL TRANSITION TO TIED-DOWN SYSTEM DETAILS

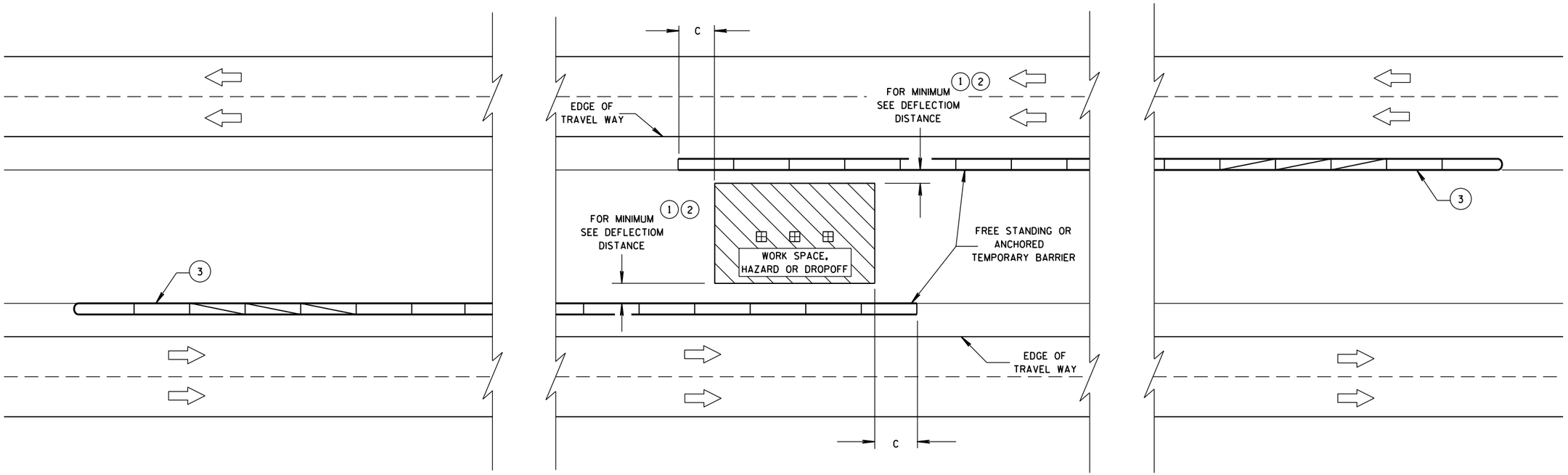
3 PINS PLACED ON TRAFFIC SIDE OF BARRIER

PERMANENT CONCRETE BARRIER OR CONCRETE PARAPET

FREE STANDING TEMPORARY BARRIER

DIMENSION C TABLE (2)

AVAILABLE DEFLECTION DISTANCE	MINIMUM LENGTH OF BARRIER BEYOND HAZARD FT
GREATER THAN 8'	12.5
LESS THAN OR EQUAL TO 8' BUT GREATER THAN 4'	50
LESS THAN OR EQUAL TO 4'	100



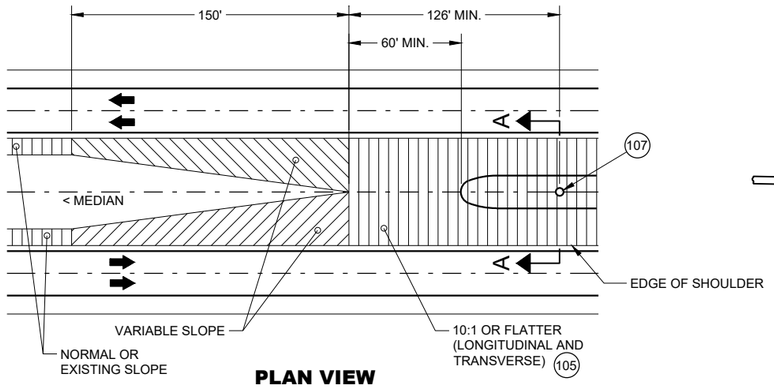
CRASH CUSHION/SAND BARREL ARRAY AND OTHER TEMPORARY BARRIER LAYOUT DETAILS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

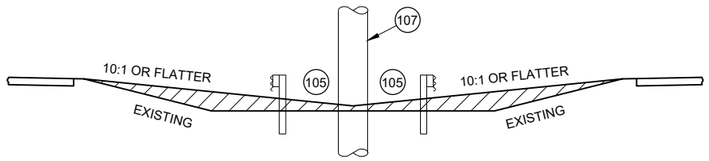
APPROVED
June, 2015
DATE
/S/ Jerry H. Zogg
ROADWAY STANDARDS ENGINNER
FHWA

6

S.D.D. 14 B 8-2e



PLAN VIEW
GRADING AT BULLNOSE
(ALL INSTALLATIONS)



SECTION A -A
MEDIAN GRADING
(ALL INSTALLATIONS)

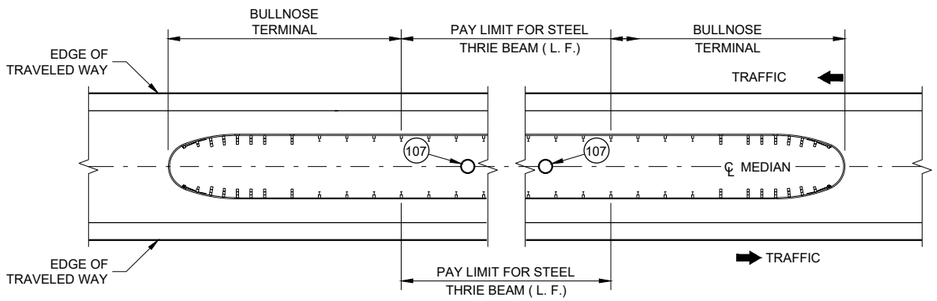
GENERAL NOTES

THRIE BEAM RAILS MAY NEED TO BE FIELD BENT TO FIT THE LOCATION.

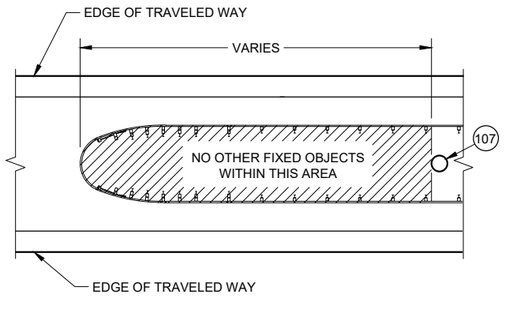
SEE STANDARD DETAIL DRAWINGS 14B26 SHEETS a-h.

IF ROCK IS ENCOUNTERED, REMOVE ROCK TO FULL DEPTH OF POST PLUS 2 ½". MINIMUM DIAMETER OF THE ROCK REMOVAL IS 12" DIAMETER

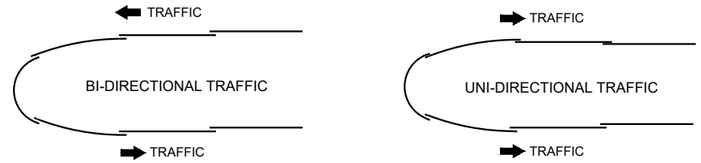
- E1 UNBENT STANDARD THRIE BEAM RAIL B1 (POST 8 TO POST 10 AND POST 10 TO POST 12)
- E2 SLOTTED THRIE BEAM RAIL E1 (POST 1 TO POST 1)
- E3 SLOTTED THRIE BEAM RAIL B3 (POST 5 TO POST 8)
- E4 SLOTTED THRIE BEAM RAIL E4 (POST 1 TO POST 5)
- 5 BEYOND POST 12: CONSTRUCT STEEL THRIE BEAM - USE UNBENT STANDARD THRIE BEAM RAIL NO. 5.
- (100) DIMENSIONS ARE FROM BACK OF RAIL TO BACK OF RAIL WHERE RAIL IS BOLTED TO POST OR BLOCK.
- (101) U-BOLT CABLE CLIPS (3 PER CABLE) SPACED OUT ON NOSE, TO HOLD CABLE TO BACKSIDE OF THE RAIL.
- (102) NOSE CABLE WITH SWAGGED END BUTTONS.
- (103) NOSE CABLE ANCHOR PLATE (BACKSIDE OF SPLICE).
- (104) THE SLACK IN THE NOSE CABLES SHALL BE EVENLY DISTRIBUTED BETWEEN THE CABLE CLIP FASTENERS AND POST NO. 1 ON EITHER SIDE OF THE NOSE.
- (105) MINIMUM WORKING WIDTH 4' - 2".
- (106) MAX. WIDTH OF SYSTEM IS 14' - 2 ½" MEASURED FROM THE BACK OF RAIL TO BACK OF RAIL WHERE RAIL IS BOLTED TO A POST OR BLOCK.
- (107) FIXED OBJECT OR OTHER HAZARD.
- (108) PLAN IS TO PROVIDE STATION OFFSET TO CENTER OF POST 5 IN PLANS.



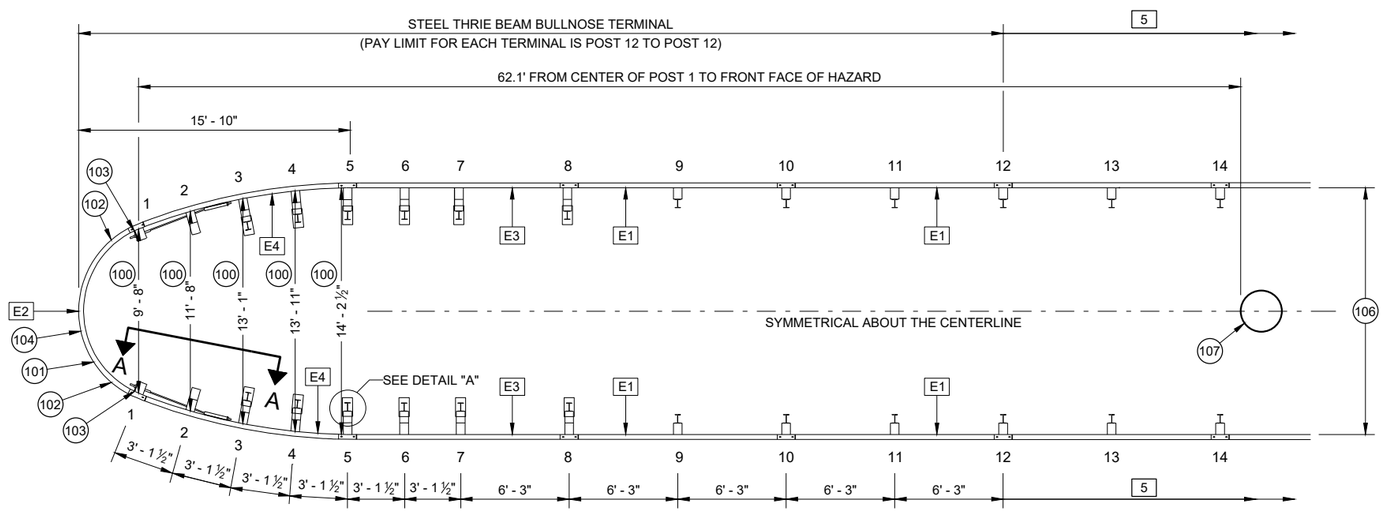
MEDIAN HAZARD PROTECTION PAY LIMITS



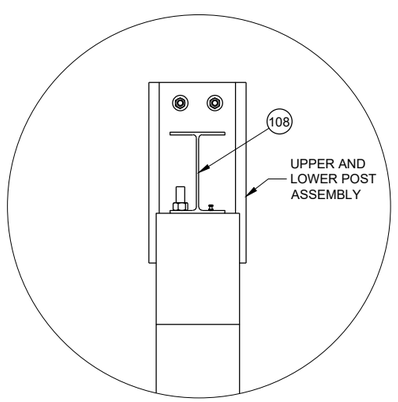
HAZARD FREE AREA
INSIDE BULLNOSE



LAPPING DETAIL



PLAN VIEW
TYPICAL BULLNOSE LAYOUT



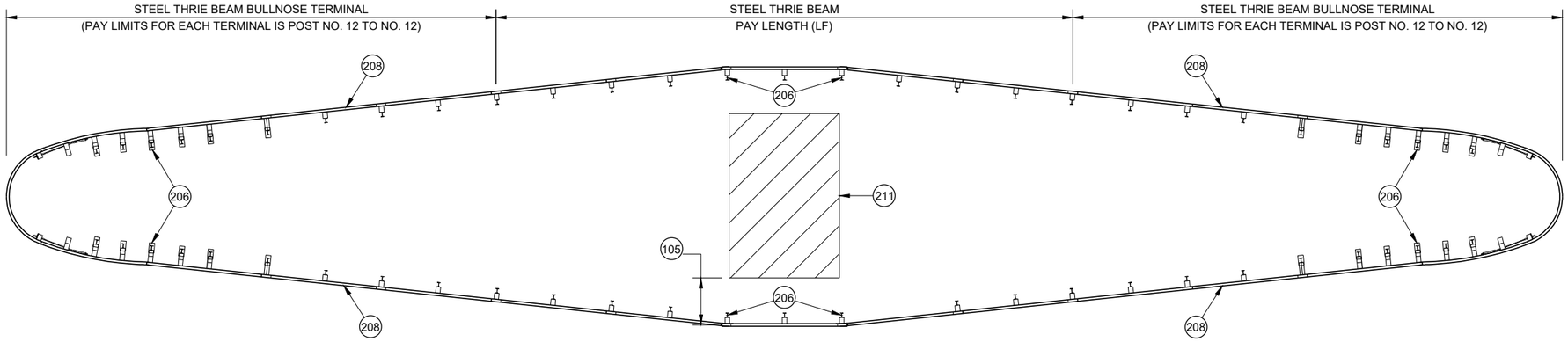
DETAIL "A"

STEEL THRIE BEAM
BULLNOSE TERMINAL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

SDD 14B26 - 05a

SDD 14B26 - 05a



VARIABLE WIDTH BULLNOSE

GENERAL NOTES

200 6' - 3" ASYMMETRICAL 10-GAUGE W-BEAM TO THRIE BEAM GUARD TRANSITION. SEE SDD 14B45 FOR MORE INFORMATION.

201 W-BEAM RAIL. SEE SDD 14B42 FOR MORE INFORMATION.

202 SEE POST NO. 9 AND ALL STEEL THRIE BEAM POST BEYOND DETAIL.

203 SEE SDD 14B42 FOR INSTALLATION INFORMATION.

204 SEE SDD 14B45 FOR INSTALLATION DETAILS. REPLACE ASYMMETRICAL W-BEAM TO THRIE BEAM TRANSITION AND W-BEAM RAIL WITH E1. PAY FOR MODIFIED THRIE BEAM TRANSITION.

205 CONCRETE BARRIER OR BRIDGE RAIL.

206 SEE PLAN FOR STATION AND OFFSET TO CENTER OF POST.

207 SEE PLAN FOR STATION AND OFFSET TO CENTER OF SPLICE.

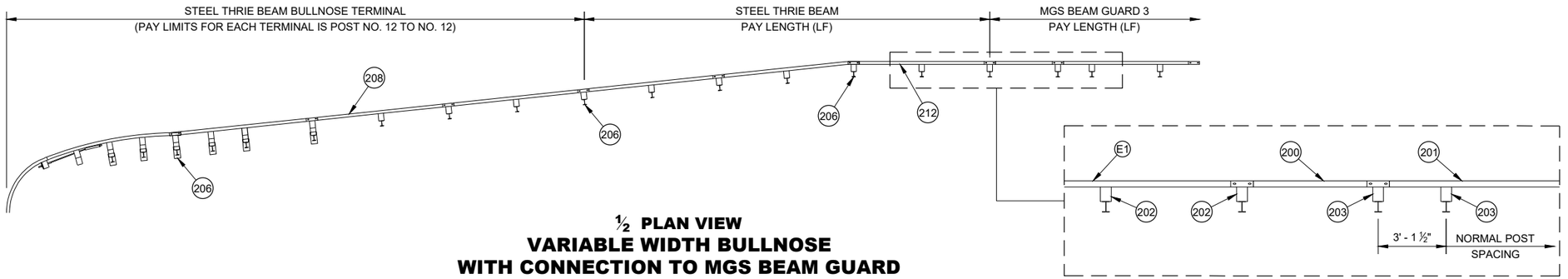
208 SEE PLAN FOR FLARE RATE.

209 A MINIMUM OF 25 FT OF THRIE BEAM TANGENT BEFORE TRANSITIONING TO BEAM GUARD OR THRIE BEAM TRANSITION.

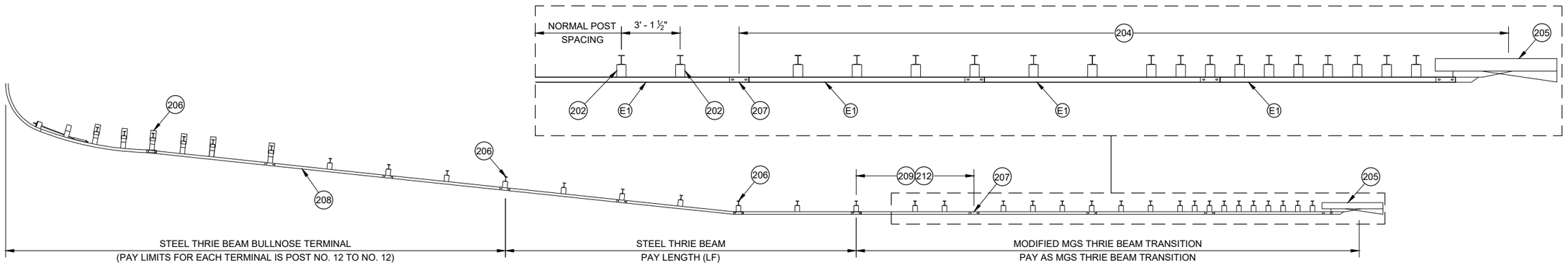
210 NOT ALL BULLNOSE HARDWARE SHOWN. SEE OTHER SHEETS IN 14B26.

211 WIDER HAZARD TO BE SHIELDED.

212 TRANSITION RAIL HEIGHT TO 31" OVER THE LENGTH OF A 12' - 6" BEAM SECTION.



½ PLAN VIEW
VARIABLE WIDTH BULLNOSE
WITH CONNECTION TO MGS BEAM GUARD



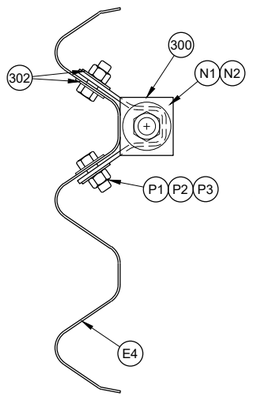
½ PLAN VIEW
VARIABLE WIDTH BULLNOSE
WITH CONNECTION TO RIGID BARRIER

STEEL THRIE BEAM BULLNOSE TERMINAL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTA

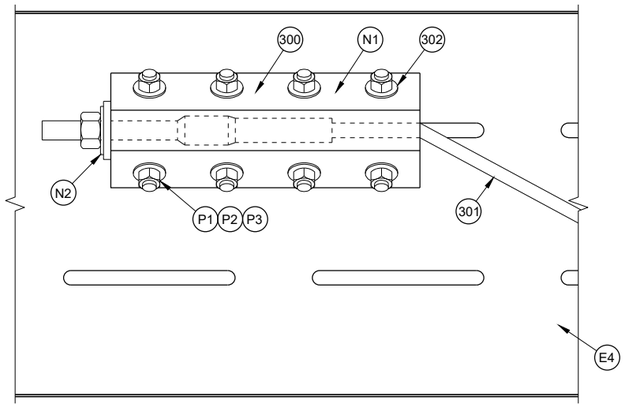
6

SDD 14B26 - 05b

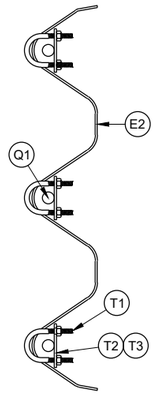


PROFILE VIEW

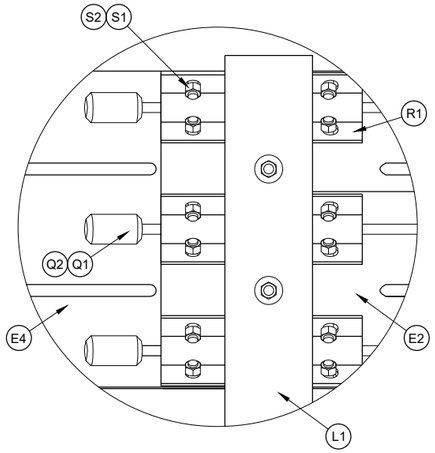
CABLE ANCHOR ASSEMBLY CONNECTION



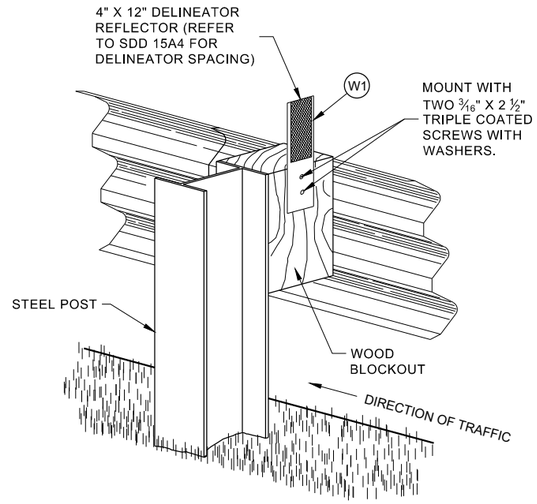
CABLE ANCHOR ASSEMBLY



NOSE CABLE RETAINING CLIP



DETAIL "A"



ONE SIDED REFLECTOR DETAIL AND TYPICAL INSTALLATION

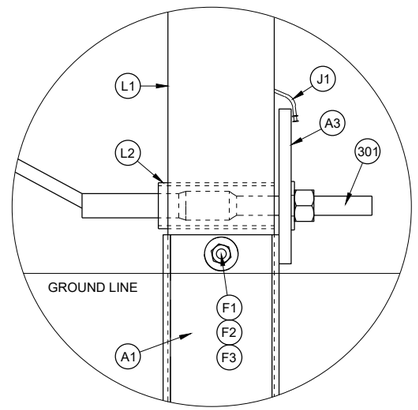
POST 8

POST 3

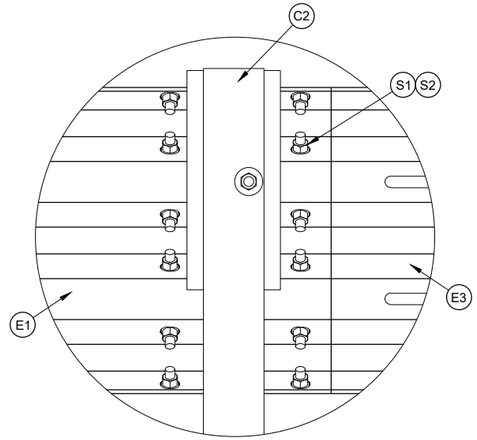
POST 2

POST 1

CROSS SECTION A - A



DETAIL "B"



DETAIL "C" THRIE BEAM SPLICE

GENERAL NOTES

(300) SEE ANCHOR BRACKET ASSEMBLY DETAIL.

(301) SEE ANCHOR CABLE ASSEMBLY DETAIL

(302) ONE WASHER BETWEEN BOLT HEAD AND RAIL AND BETWEEN NUT AND ANCHOR BRACKET ASSEMBLY.

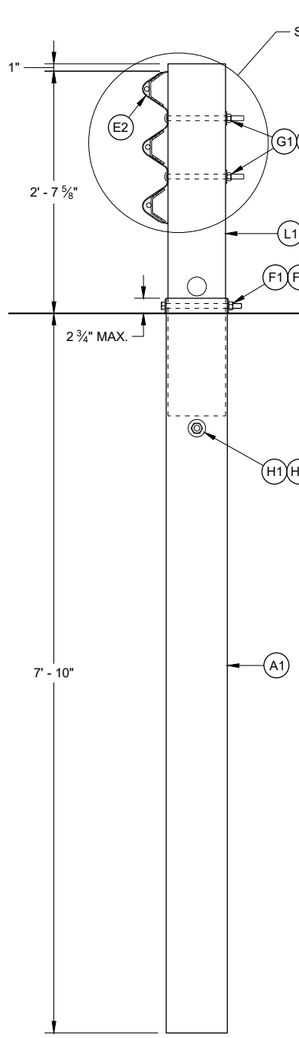
(303) ONE WASHER BETWEEN BOLD HEAD AND FOUNDATION TUBE AND BETWEEN NUT AND FOUNDATION TUBE.

STEEL THRIE BEAM BULLNOSE TERMINAL

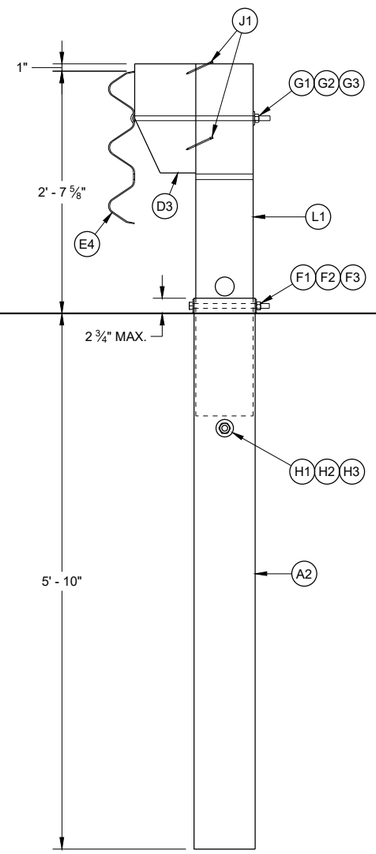
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

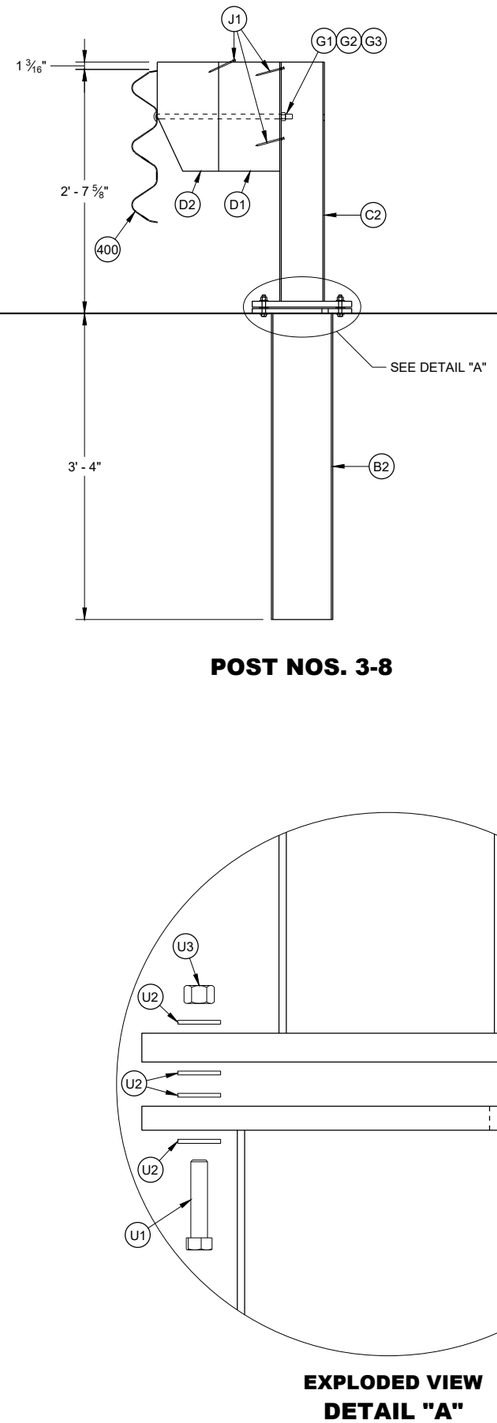
SDD 14B26 - 05c



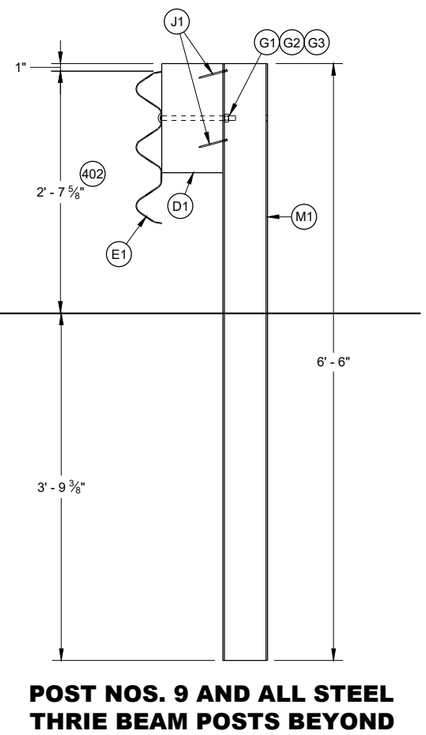
POST NO. 1



POST NO. 2



POST NOS. 3-8



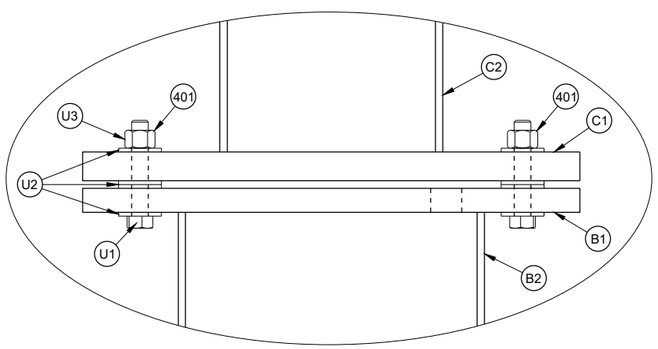
POST NOS. 9 AND ALL STEEL THRIE BEAM POSTS BEYOND

GENERAL NOTES

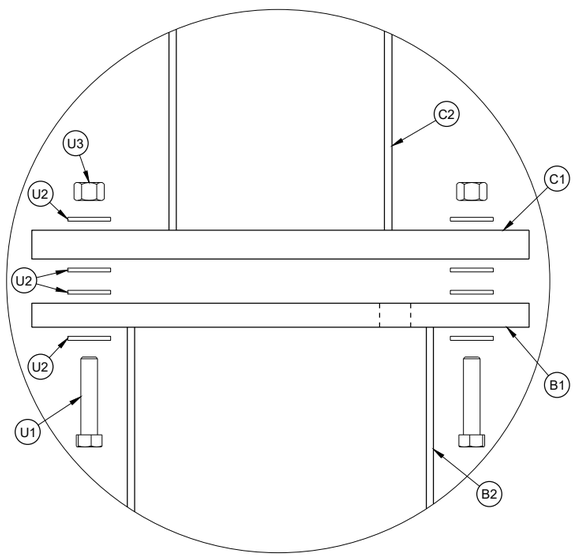
400 RAIL CAN BE E3 OR E4 DEPENDING ON POST LOCATION.

401 TORQUE BOLD BETWEEN 60-75 FT-LB

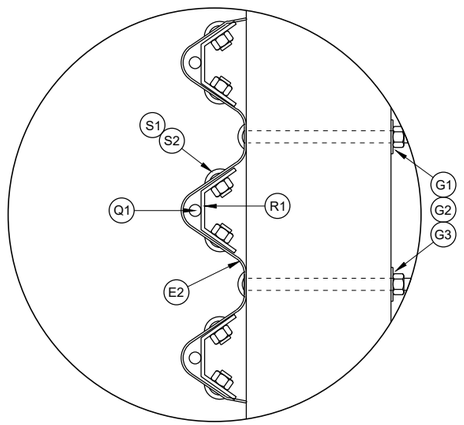
402 HEIGHT WILL VARY WITHIN HEIGHT TRANSITION TO OTHER HARDWARE. SEE NOTE 213, SHEET "b".



DETAIL "A"



EXPLODED VIEW
DETAIL "A"



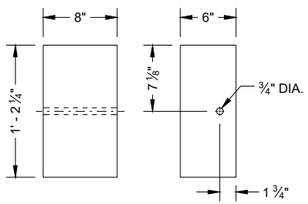
DETAIL "B"

STEEL THRIE BEAM BULLNOSE TERMINAL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

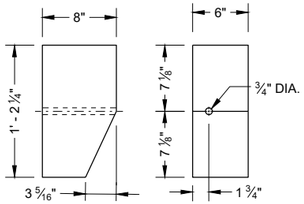
6

SDD 14B26 - 05d



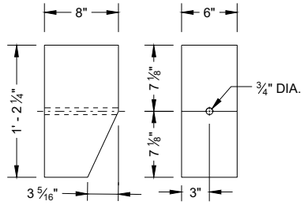
ELEVATION PROFILE

BLOCKOUT (D1)



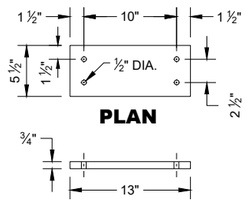
ELEVATION PROFILE

BLOCKOUT (D2)



ELEVATION PROFILE

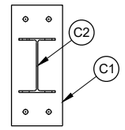
BLOCKOUT (D3)



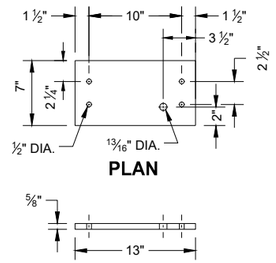
PLAN

PROFILE

UPPER SHEAR PLATE (C1)



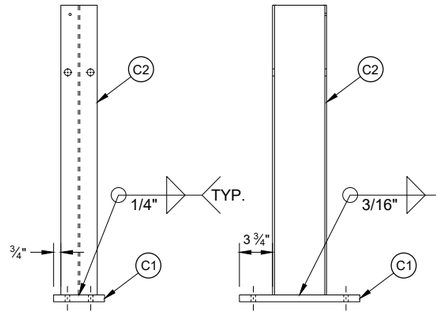
PLAN



PLAN

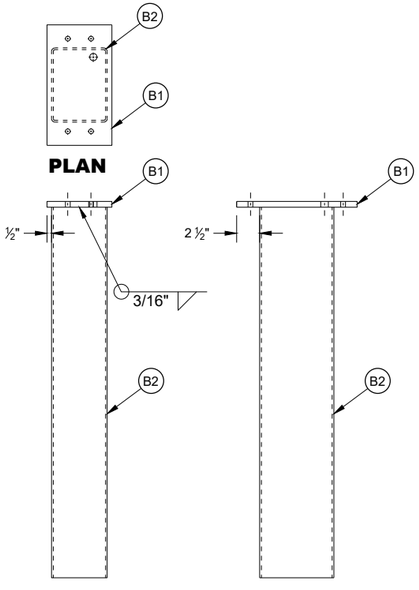
PROFILE

LOWER SHEAR PLATE (B1)



ELEVATION PROFILE

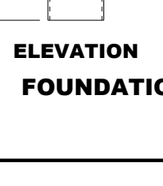
UPPER POST ASSEMBLY



PLAN

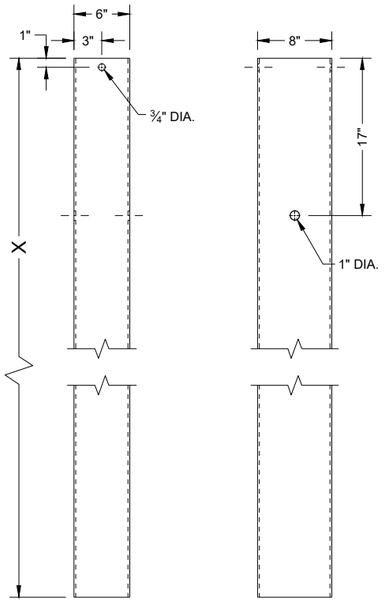
ELEVATION PROFILE

LOWER POST ASSEMBLY



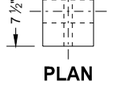
PLAN

PART	LENGTH "X"
A1	8' - 0"
A2	6' - 0"
B2	3' - 4"

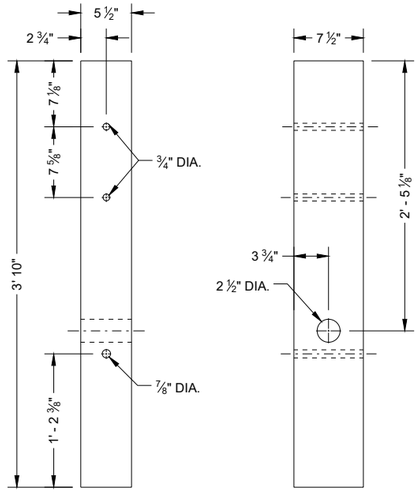


ELEVATION PROFILE

FOUNDATION TUBE

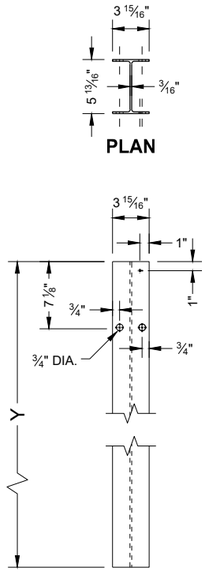


PLAN



ELEVATION PROFILE

BCT POST (L1)



PLAN

ELEVATION

POST

PART	LENGTH "Y"
M1	6' - 6"
M2	5' - 8 5/8"
C2	2' - 7 5/8"

6

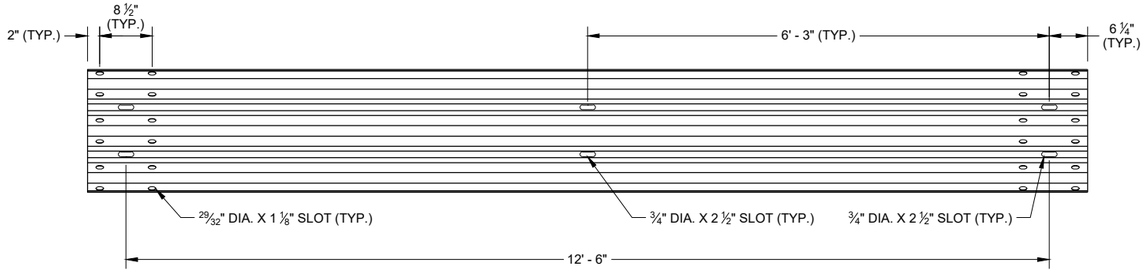
SDD 14B26 - 05e

STEEL THRIE BEAM BULLNOSE TERMINAL

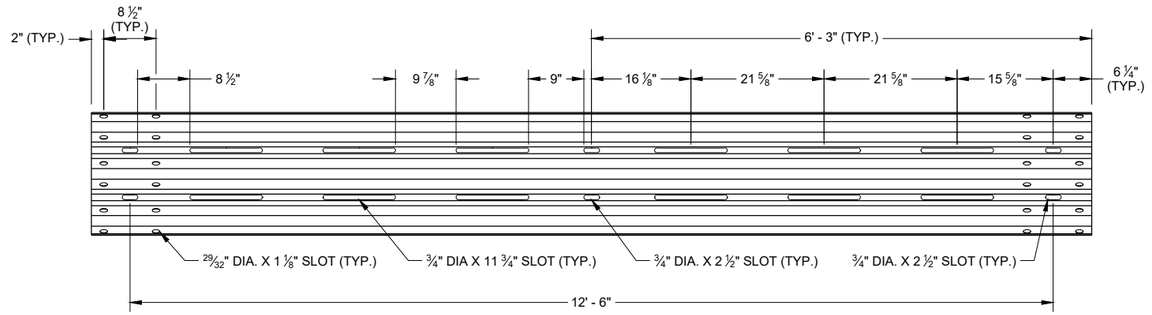
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

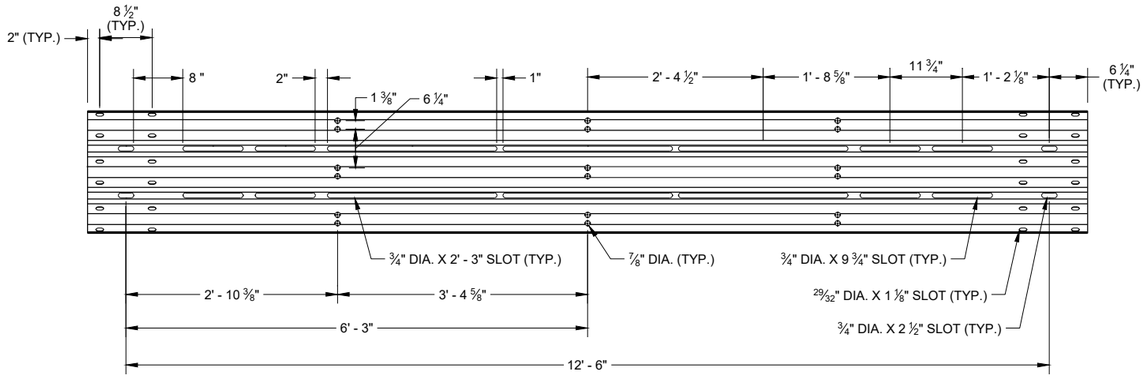
SDD 14B26 - 05e



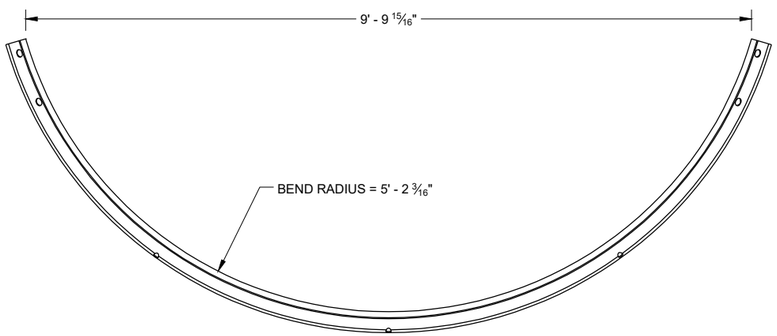
SLOTTED THRIE BEAM RAIL E1



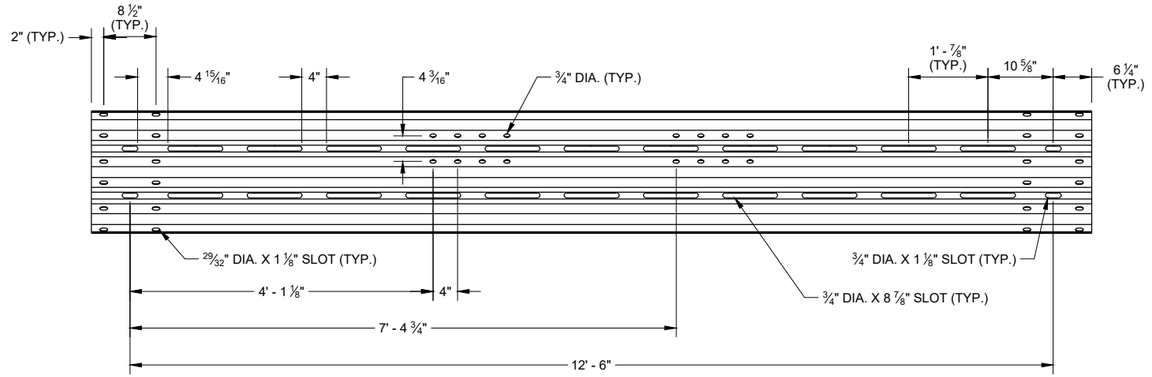
SLOTTED THRIE BEAM RAIL E3



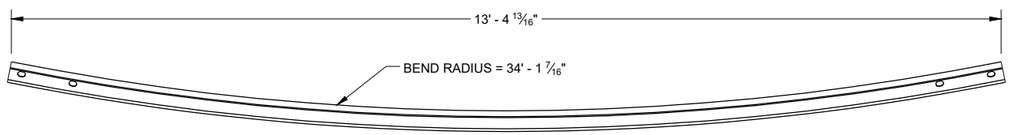
ELEVATION VIEW NON - RADIUSED
SLOTTED THRIE BEAM RAIL E2



PLAN VIEW
SLOTTED THRIE BEAM RAIL E2



ELEVATION VIEW NON - RADIUSED
SLOTTED THRIE BEAM RAIL E4

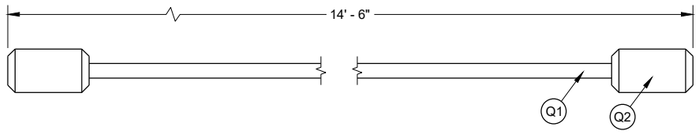


PLAN VIEW
SLOTTED THRIE BEAM RAIL E4

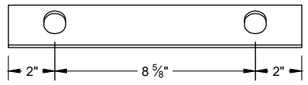
STEEL THRIE BEAM
BULLNOSE TERMINAL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

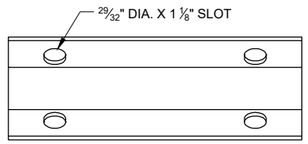
6
SDD 14B26 - 05f



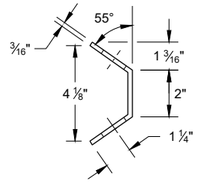
NOSE CABLE AND SWAGE BUTTON



PLAN VIEW

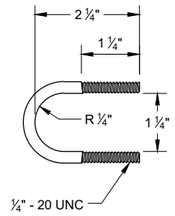


ELEVATION VIEW

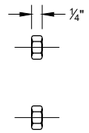


PROFILE VIEW

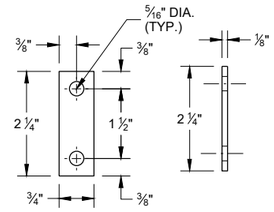
NOSE CABLE ANCHOR (R1)



U - BOLT (T1)

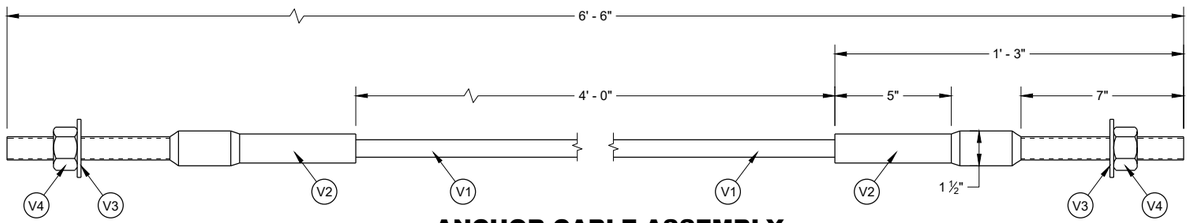


U - BOLT NUT (T3)

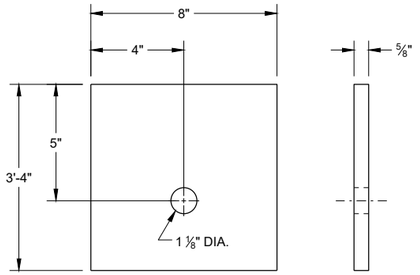


ELEVATION VIEW **PROFILE VIEW**

U - BOLT PLATE WASHER (T2)

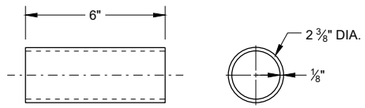


ANCHOR CABLE ASSEMBLY



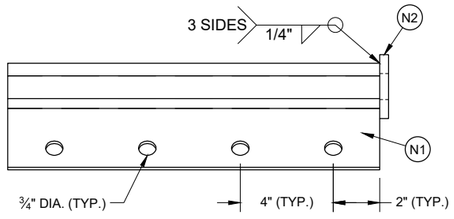
ELEVATION VIEW **PROFILE VIEW**

BCT BEARING PLATE (A3)

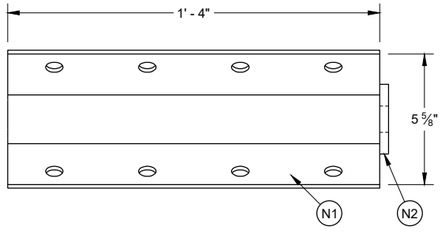


ELEVATION VIEW **PROFILE VIEW**

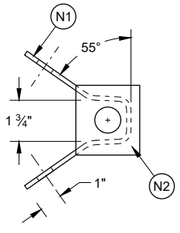
BCT POST SLEEVE (L2)



PLAN VIEW

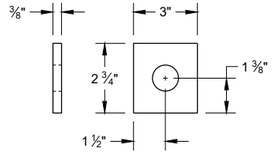


ELEVATION VIEW



PROFILE VIEW

ANCHOR BRACKET ASSEMBLY (N1)



ANCHOR BRACKET END PLATE (N2)

STEEL THRIE BEAM BULLNOSE TERMINAL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

SDD 14B26 - 05g

BILL OF MATERIALS LIST

PART NUMBER	DESCRIPTION	MATERIAL SPECIFICATION
A1	LONG FOUNDATION TUBE	AASHTO M111/ASTM A123 ASTM A500 GRADE B OR ASTM A-501
A2	FOUNDATION TUBE	AASHTO M111/ASTM A123 ASTM A500 GRADE B OR ASTM A-501
A3	BEARING PLATE AT POST	AASHTO M111/ASTM A123 ASTM A36 MIN STRENGTH 36 KSI, OR ASTM A529 MAX. STRENGTH 50 KSI, OR ASTM A572 MAX. STRENGTH 50 KSI, OR ASTM A709 MAX. STRENGTH 50 KSI, OR ASTM A992 MAX. STRENGTH 50 KSI
B1	LOWER SLIP POST ASSEMBLY - PLATE	AASHTO M111/ASTM A123 ASTM A36 MIN STRENGTH 36 KSI, OR ASTM A529 MAX. STRENGTH 50 KSI, OR ASTM A572 MAX. STRENGTH 50 KSI, OR ASTM A709 MAX. STRENGTH 50 KSI, OR ASTM A992 MAX. STRENGTH 50 KSI
B2	LOWER SLIP POST ASSEMBLY - TUBE	AASHTO M111/ASTM A123 ASTM A500 GRADE B OR ASTM A-501
C1	UPPER SLIP POST ASSEMBLY - PLATE	AASHTO M111/ASTM A123 ASTM A36 MIN STRENGTH 36 KSI, OR ASTM A529 MAX. STRENGTH 50 KSI, OR ASTM A572 MAX. STRENGTH 50 KSI, OR ASTM A709 MAX. STRENGTH 50 KSI, OR ASTM A992 MAX. STRENGTH 50 KSI
C2	UPPER SLIP POST ASSEMBLY - POST	AASHTO M111/ASTM A123 ASTM A6 W6X9 OR W6X8.5 ASTM A36 MIN STRENGTH 36 KSI, OR ASTM A529 MAX. STRENGTH 50 KSI, OR ASTM A572 MAX. STRENGTH 50 KSI, OR ASTM A709 MAX. STRENGTH 50 KSI, OR ASTM A992 MAX. STRENGTH 50 KSI
D1	BLOCK FOR STEEL POST - WOOD	WISDOT SPEC. 614
D2	TAPERED BLOCK FOR STEEL POST - WOOD	WISDOT SPEC. 614
D3	TAPERED BLOCK FOR BCT POST - WOOD	WISDOT SPEC. 614
E1	THRIE BEAM RAIL	AASHTO M180 CLASS A TYPE 2 APPROVED PRODUCER
E2	THRIE BEAM RAIL - SHOP BENT AND PUNCHED	AASHTO M180 CLASS A TYPE 2 APPROVED PRODUCER. INDICATE RADIUS BEAM GUARD IS BENT TO ON THE BACKSIDE OF RAIL. FOLLOW AASHTO M180. MARK RADIUS.
E3	THRIE BEAM RAIL - PUNCHED	AASHTO M180 CLASS A TYPE 2 APPROVED PRODUCER
E4	THRIE BEAM RAIL - SHOP BENT AND PUNCHED	AASHTO M180 CLASS A TYPE 2 APPROVED PRODUCER. INDICATE RADIUS BEAM GUARD IS BENT TO ON THE BACKSIDE OF RAIL. FOLLOW AASHTO M180. MARK RADIUS.
F1	5/8" DIA. HEX HEAD GROUND STRUT AND YOKE BOLT	HOT DIP AASHTO M232 CLASS / ASTM A153 CLASS C / ASTM F2329 C OR MECHANICAL GAL. TO AASHTO M298 CLASS 50 TYPE 1/ ASTM B695 CLASS 50 TYPE 1 UNC HEAVY HEX HEAD ASTM A307 GRADE B OR SAE J429 GRADE 2 OR ASTM F1554 GRADE 36
F2	5/8" DIA. GROUND STRUT AND YOKE BOLT - WASHER	HOT DIP AASHTO M232 CLASS / ASTM A153 CLASS C / ASTM F2329 C OR MECHANICAL GAL. TO AASHTO M298 CLASS 50 TYPE 1/ ASTM B695 CLASS 50 TYPE 1 F436 TYPE 1 (HARDEN WASHER ONLY)
F3	GROUND STRUT AND YOKE BOLT - NUT	HOT DIP AASHTO M232 CLASS / ASTM A153 CLASS C / ASTM F2329 C OR MECHANICAL GAL. TO AASHTO M298 CLASS 50 TYPE 1/ ASTM B695 CLASS 50 TYPE 1 UNC OVER TAP NUTS AS SPECIFIED IN AASHTO 291/ASTM A 563 HEAVY HEX HEAD ASTM A563DH OR SAE J995 GRADE 5
G1	5/8 " DIA. POST BOLT	HOT DIP AASHTO M232 CLASS / ASTM A153 CLASS C / ASTM F2329 C OR MECHANICAL GAL. TO AASHTO M298 CLASS 50 TYPE 1/ ASTM B695 CLASS 50 TYPE 1 F436 TYPE 1 (HARDEN WASHER TYPICALLY USED WITH STEEL POSTS) OR ASTM F844 (UNHARDENED WASHER TYPICALLY USED WITH WOOD)
G2	POST BOLT - WASHER	HOT DIP AASHTO M232 CLASS / ASTM A153 CLASS C / ASTM F2329 C OR MECHANICAL GAL. TO AASHTO M298 CLASS 50 TYPE 1/ ASTM B695 CLASS 50 TYPE 1 F436 TYPE 1 (HARDEN WASHER TYPICALLY USED WITH STEEL POSTS) OR ASTM F844 (UNHARDENED WASHER TYPICALLY USED WITH WOOD)
G3	POST BOLT - NUT	HOT DIP AASHTO M232 CLASS / ASTM A153 CLASS C / ASTM F2329 C OR MECHANICAL GAL. TO AASHTO M298 CLASS 50 TYPE 1/ ASTM B695 CLASS 50 TYPE 1 UNC OVER TAP NUTS AS SPECIFIED IN AASHTO 291/ASTM A 563 AASHTO M180 RECESSED HEAVY HEX HEAD ASTM A563DH OR SAE J995 GRADE 5
H1	7/8" DIA. SOIL TUBE BOLT	HOT DIP AASHTO M232 CLASS / ASTM A153 CLASS C / ASTM F2329 C OR MECHANICAL GAL. TO AASHTO M298 CLASS 50 TYPE 1/ ASTM B695 CLASS 50 TYPE 1 UNC OVER TAP NUTS AS SPECIFIED IN AASHTO 291/ASTM A 563 HEAVY HEX HEAD 7/8" ASTM A563DH OR SAE J995 GRADE 5
H2	SOIL TUBE BOLT - WASHER	HOT DIP AASHTO M232 CLASS / ASTM A153 CLASS C / ASTM F2329 C OR MECHANICAL GAL. TO AASHTO M298 CLASS 50 TYPE 1/ ASTM B695 CLASS 50 TYPE 1 7/8" ASTM F844 TYPE 1 (HARDEN WASHER ONLY)
H3	SOIL TUBE BOLT - NUT	HOT DIP AASHTO M232 CLASS / ASTM A153 CLASS C / ASTM F2329 C OR MECHANICAL GAL. TO AASHTO M298 CLASS 50 TYPE 1/ ASTM B695 CLASS 50 TYPE 1 UNC OVER TAP NUTS AS SPECIFIED IN AASHTO 291/ASTM A 563 HEAVY HEX HEAD 7/8" ASTM A563DH OR SAE J995 GRADE 5
J1	16D DOUBLE HEAD NAIL	ASTM A153 HOT DIPPED CLASS D DOUBLE HEAD ASTM F1667 TYPE 1 STYLE 12 (16 DOUBLE HEADED)
L1	BCT TIMBER POST	WISDOT SPEC. 614 S4S FINISH ON 4 SIDE
L2	BCT POST SLEEVE	AASHTO M111/ASTM A123 2 3/8" OD ASTM 53 GRADE B
M1	W6X8.5 OR W6X9 STEEL POST	AASHTO M111/ASTM A123 ASTM A6 W6X9 OR W6X8.5 ASTM A36 MIN. STRENGTH 36 KSI, OR ASTM A529 MAX. STRENGTH 50 KSI, OR ASTM A572 MAX. STRENGTH 50 KSI, OR ASTM A709 MAX. STRENGTH 50 KSI, OR ASTM A992 MAX. STRENGTH 50 KSI
M2	W6X8.5 OR W6X9 STEEL POST	AASHTO M111/ASTM A123 ASTM A6 W6X9 OR W6X8.5 ASTM A36 MIN. STRENGTH 36 KSI, OR ASTM A529 MAX. STRENGTH 50 KSI, OR ASTM A572 MAX. STRENGTH 50 KSI, OR ASTM A709 MAX. STRENGTH 50 KSI, OR ASTM A992 MAX. STRENGTH 50 KSI
N1	ANCHOR BRACKET	AASHTO M111/ASTM A123 ASTM A36 MIN. STRENGTH 36 KSI, OR ASTM A529 MAX. STRENGTH 50 KSI, OR ASTM A572 MAX. STRENGTH 50 KSI, OR ASTM A709 MAX. STRENGTH 50 KSI, OR ASTM A992 MAX. STRENGTH 50 KSI
N2	ANCHOR BRACKET - BEARING PLATE	AASHTO M111/ASTM A123 ASTM A36 MIN. STRENGTH 36 KSI, OR ASTM A529 MAX. STRENGTH 50 KSI, OR ASTM A572 MAX. STRENGTH 50 KSI, OR ASTM A709 MAX. STRENGTH 50 KSI, OR ASTM A992 MAX. STRENGTH 50 KSI

PART NUMBER	DESCRIPTION	MATERIAL SPECIFICATION
P1	5/8" DIA. ANCHOR BRACKET BOLT	HOT DIP AASHTO M232 CLASS / ASTM A153 CLASS C / ASTM F2329 C OR MECHANICAL GAL. TO AASHTO M298 CLASS 50 TYPE 1/ ASTM B695 CLASS 50 TYPE 1 UNC HEAVY HEX HEAD 5/8" ASTM A307 GRADE B OR SAE J429 GRADE 2 OR ASTM F1554 GRADE 36
P2	ANCHOR BRACKET BOLT - WASHER	HOT DIP AASHTO M232 CLASS / ASTM A153 CLASS C / ASTM F2329 C OR MECHANICAL GAL. TO AASHTO M298 CLASS 50 TYPE 1/ ASTM B695 CLASS 50 TYPE 1 F436 TYPE 1 (HARDEN WASHER ONLY)
P3	SOIL TUBE BOLT - NUT	HOT DIP AASHTO M232 CLASS / ASTM A153 CLASS C / ASTM F2329 C OR MECHANICAL GAL. TO AASHTO M298 CLASS 50 TYPE 1/ ASTM B695 CLASS 50 TYPE 1 UNC OVER TAP NUTS AS SPECIFIED IN AASHTO 291/ASTM A 563 HEAVY HEX HEAD ASTM A563DH OR SAE J995 GRADE 5
Q1	5/8" DIA. NOSE CABLE	6X19 AASTHO M30 / ASTM A741 XIPS INDEPENDENT WIRE CORE (IWRC) PR 6X25 XIPS, IWRC NOMINAL BREAKING STRENGTH OF 41.2 KIPS.
Q2	NOSE CABLE-SWAGE BUTTON	COLD TUFF BUTTON, S-409 SIZE NO. 12 STOCK NUMBER 1040395 OR ANY OTHER SIMILAR SIZED WAGED-GRIP-BUTTON FERRULES. ASTM A576 GRADE 1035 SWAGE FITTING ARE TO BE FIELD SWAGED PER MANUFACTURERS RECOMMENDATION. NOMINAL BREAKING STRENGTH OF 41.2 KIPS.
R1	NOSE CABLE ANCHOR BRACKET	AASHTO M111/ASTM A123 ASTM A36 MIN. STRENGTH 36 KSI, OR ASTM A529 MAX. STRENGTH 50 KSI, OR ASTM A572 MAX. STRENGTH 50 KSI, OR ASTM A709 MAX. STRENGTH 50 KSI, OR ASTM A992 MAX. STRENGTH 50 KSI
S1	5/8" DIA. SPLICE BOLT - BOLT	HOT DIP AASHTO M232 CLASS / ASTM A153 CLASS C / ASTM F2329 C OR MECHANICAL GAL. TO AASHTO M298 CLASS 50 TYPE 1 / ASTM B695 CLASS 50 TYPE 1 UNC AASHTO M180 HEAD ASTM A307 GRADE B OR SAE J429 GRADE 2 OR ASTM F1554 GRADE 36
S2	SPLICE - BOLT NUT	HOT DIP AASHTO M232 CLASS / ASTM A153 CLASS C / ASTM F2329 C OR MECHANICAL GAL. TO AASHTO M298 CLASS 50 TYPE 1 / ASTM B695 CLASS 50 TYPE 1 UNC OVER TAP NUTS AS SPECIFIED IN AASHTO 291/ASTM A 563 AASHTO M180 RECESSED HEAVY HEX HEAD 5/8" ASTM A563DH OR SAE J995 GRADE 5
T1	1/4" DIA. NOSE CABLE - U BOLT	HOT DIP AASHTO M232 CLASS / ASTM A153 CLASS C / ASTM F2329 C OR MECHANICAL GAL. TO AASHTO M298 CLASS 50 TYPE 1 / ASTM B695 CLASS 50 TYPE 1 UNC HEAVY HEX HEAD ASTM A307 GRADE B OR SAE J429 GRADE 2 OR ASTM F1554 GRADE 36
T2	U-BOLT - PLATE WASHER	HOT DIP AASHTO M232 CLASS / ASTM A153 CLASS C / ASTM F2329 C OR MECHANICAL GAL. TO AASHTO M298 CLASS 50 TYPE 1 / ASTM B695 CLASS 50 TYPE 1 F436 TYPE 1 (HARDEN WASHER ONLY)
T3	U-BOLT NUT	HOT DIP AASHTO M232 CLASS / ASTM A153 CLASS C / ASTM F2329 C OR MECHANICAL GAL. TO AASHTO M298 CLASS 50 TYPE 1/ ASTM B695 CLASS 50 TYPE 1 UNC OVER TAP NUTS AS SPECIFIED IN AASHTO 291 / ASTM A 563 HEAVY HEX HEAD ASTM A563DH OR SAE J995 GRADE 5
U1	7/16" DIA. SLIP POST ASSEMBLY - BREAKAWAY BOLT	ASTM A153 OR B695 CLASS 55 OR F2329 UNC FULLY THREADED HEX HEAD TAP BOLT ASTM A449 OR SAE J429 GRADE 5
U2	7/16" DIA. SLIP POST ASSEBLY - BREAKAWAY BOLT - WASHER	ASTM F436 TYPE I (HARDEN TYPICALLY USED WITH STEEL) GALV. AASHTO M111/ASTM A 123 OR GALV. HOT DIP. TO POST BOLT CLASS C / ASTM F2329 OR GALV. MECHANICALLY TO AASHTO M232 CLASS C / ASTM A153 CLASS C / ASTM AASHTO M298 CLASS 50, TYPE 1 / ASTM B695 CLASS 55, F2329
U3	SLIP POST ASSEBLY - BREAKAWAY BOLT - NUT	HOT DIP AASHTO M232 CLASS / ASTM A153 CLASS C / ASTM F2329 C OR MECHANICAL GAL. TO AASHTO M298 CLASS 50 TYPE 1 / STM B695 CLASS 50 TYPE 1 UNC OVER TAP NUTS AS SPECIFIED IN AASHTO 291/ASTM A 563 HEAVY HEX HEAD ASTM A563DH OR SAE J995 GRADE 5
V1	¾" DIA. BCT CABLE	AASHTO M30 / ASTM A741 6X19 INDEPENDENT WIRE CORE (IWRC) IMPROVED PLOW STEEL (IPS), 6X19 INDEPENDENT WIRE CORE (IWRC) IMPROVED PLOW STEEL (IPS) TYPE II OR IIC, CLASS C ZINC COATED MIN BREAKING STRENGTH OF 42.7 KIPS
V2	ANCHOR CABLE-SWAGE FITTING	UNC ASTM A576 GRADE 1035 SWAGE FITTING ARE TO BE FACTORY SWAGED. MIN. BREAKING STRENGTH OF 42.7 KIPS. ASME B30.26 "FORGED, CAST, OR DIE STAMPED WITH THE FOLLOWING IN TO CONNECTION: NAME OF MANUFACTURE OR TRADEMARK OF CONNECTION'S MANUFACTURER, SIZE OR RATED LOAD, GRADE FOR ALLOY EYEBOLTS."
V3	1" DIA. ANCHOR CABLE-WASHER	HOT DIP AASHTO M232 CLASS / ASTM A153 CLASS C / ASTM F2329 C OR MECHANICAL GAL. TO AASHTO M298 CLASS 50 TYPE 1 / ASTM B695 CLASS 50 TYPE 1 F436 TYPE 1 (HARDEN WASHER ONLY)
V4	1" DIA. ANCHOR CABLE-NUT	HOT DIP AASHTO M232 CLASS / ASTM A153 CLASS C / ASTM F2329 C OR MECHANICAL GAL. TO AASHTO M298 CLASS 50 TYPE 1/ ASTM B695 CLASS 50 TYPE 1 UNC OVER TAP NUTS AS SPECIFIED IN AASHTO 291 / ASTM A 563 HEAVY HEX HEAD ASTM A563DH OR SAE J995 GRADE 5
W1	REFLECTOR	SEE SDD 15A4

6

SDD 14B26 - 05h

STEEL THRIE BEAM BULLNOSE TERMINAL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2022 — DATE
/S/ Rodney Taylor — ROADWAY STANDARDS DEVE ENGINEER
FHWA

6

SDD 14B26 - 05h

(1) WOOD OR STEEL POSTS (w6X9 OR w6X8.5) MAY BE USED. DO NOT INTERMIX WOOD AND STEEL POSTS. INSTALL STEEL POSTS WITH HOLES ON APPROACHING TRAFFIC SIDE.

(2) USE WOOD OR APPROVED PLASTIC BLOCKOUTS. WOOD BLOCKOUTS MAY BE CONSTRUCTED OUT OF TWO OR MORE WOOD BLOCKOUTS. SEE ALTERNATE WOOD BLOCKOUT DETAIL. DIMENSIONS OF APPROVED PLASTIC BLOCKOUTS MAY VARY.

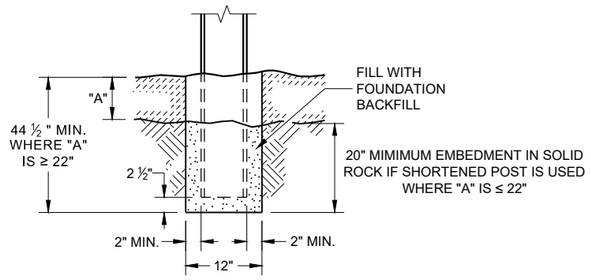
(3) IF ROCK IS ENCOUNTERED DURING EXCAVATION, PROVIDE A HOLE 12 INCHES IN DIAMETER EXTENDING 20 INCHES DEEP INTO THE ROCK. PLACE APPROXIMATELY 2 1/2" INCHES OF GRANULAR MATERIAL IN THE BOTTOM OF THE HOLE. CUT THE POSTS THE TO LENGTH AMD INSTALL. BACKFILL WITH EXCAVATED MATERIAL AND COMPACT. BACKFILL IS TO BE FREE OF LARGE ROCKS.

(4) WHEN THE DISTANCE FROM BACK OF POST TO SHOULDER HINGE POINT IS LESS THAN 2 FEET INSTALL LONGER POST AT HALF POST SPACING (K).

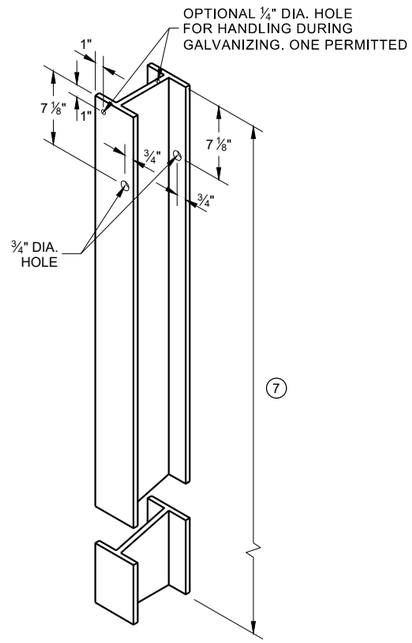
(5) FOR NEW MGS INSTALLATION TOP OF W-BEAM RAIL TOLERANCE IS ±1". FOR EXISTING MGS INSTALLATION TOP OF W-BEAM IS BETWEEN 27 ¾" TO 32".

(6) WHEN USING STEEL POST AND WOOD BLOCKOUTS INSTALL FOUR 16D GALVANIZED NAILS. INSTALL NAILS AT THE BACK CORNERS OF THE BLOCK AND BEND THE NAILS OVER THE FLANGE OF THE STEEL POST.

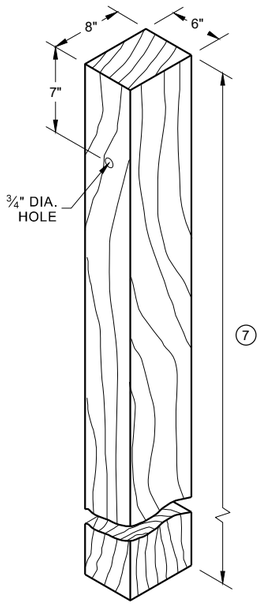
(7) TOTAL POST LENGTH FOR TYPE K IS 7' - 0".
TOTAL POST LENGTH FOR OTHER MGS TYPES IS 6' - 0".



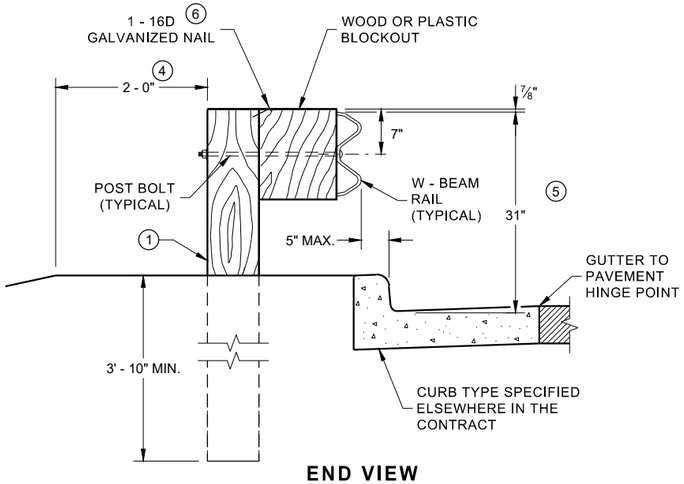
END VIEW
SETTING STEEL OR WOOD POST IN ROCK (3)



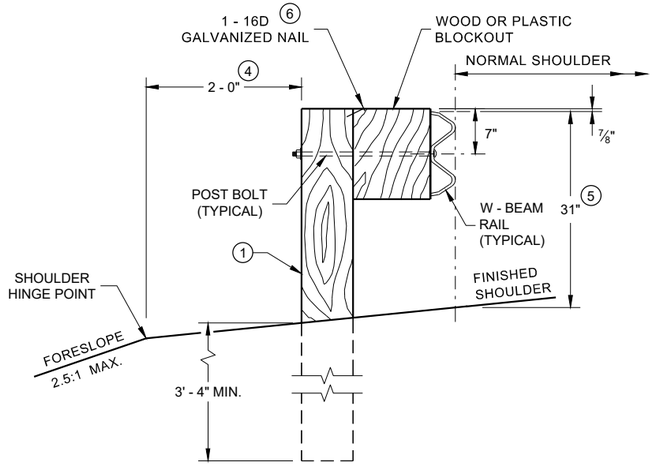
STEEL POST & HOLE PUNCHING DETAIL (W 6 X 9) (1)



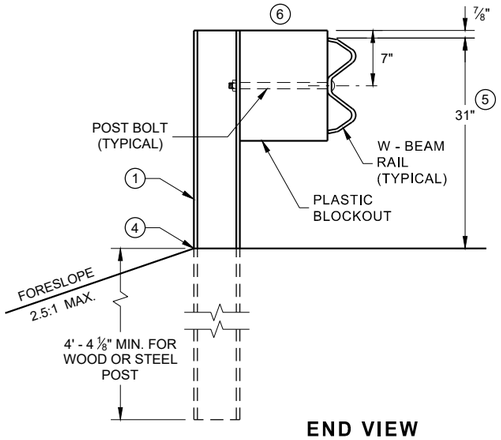
WOOD POST (6" X 8") NOMINAL (1)



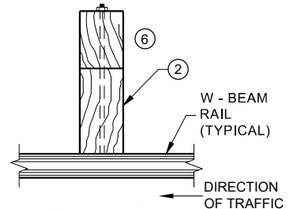
END VIEW
LOCATED ALONG A CURBED ROADWAY



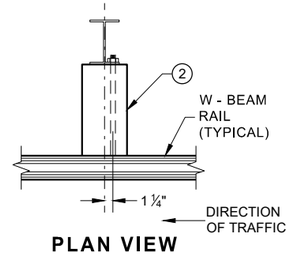
END VIEW
LOCATED ALONG A ROADWAY SHOULDER STANDARD INSTALLATION



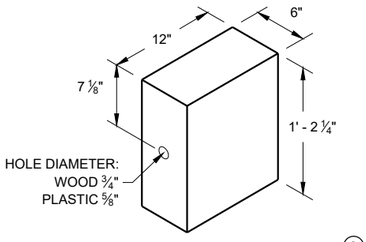
END VIEW
MGS LONGER POST AT HALFPOST SPACING W BEAM (K)



PLAN VIEW
WOOD POST, BLOCKOUT & BEAM



PLAN VIEW
STEEL POST, PLASTIC BLOCKOUT & BEAM



WOOD OR PLASTIC BLOCKOUT (2)

MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

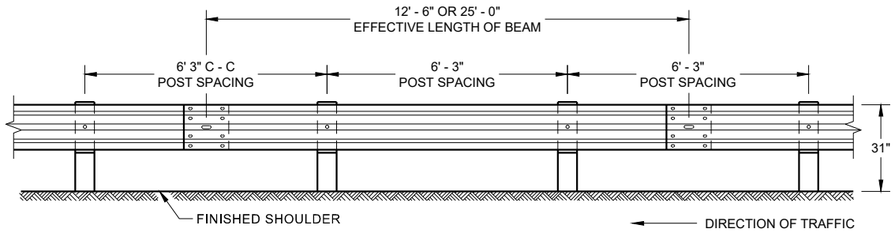
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

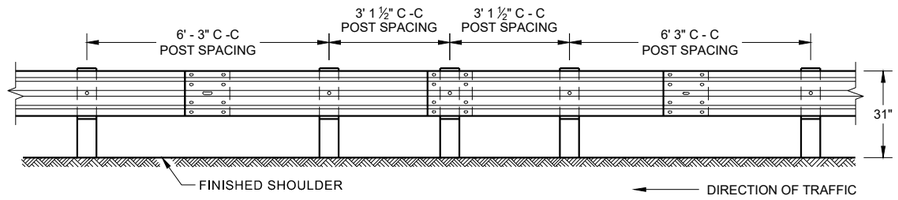
SDD 14B42 - 07a

6

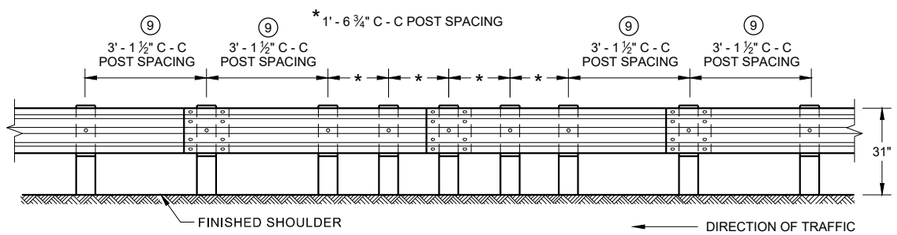
SDD 14B42 - 07a



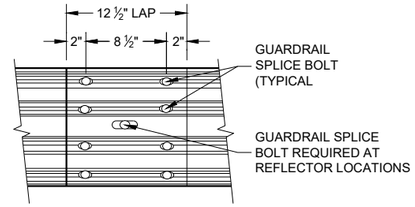
FRONT VIEW
POST SPACING STANDARD INSTALLATION



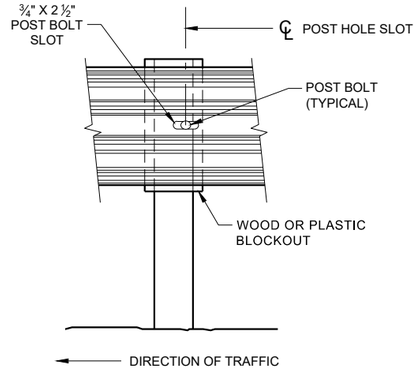
FRONT VIEW
HALF POST SPACING (HS) AND HALF POST SPACING WITH LONGER POSTS (K)



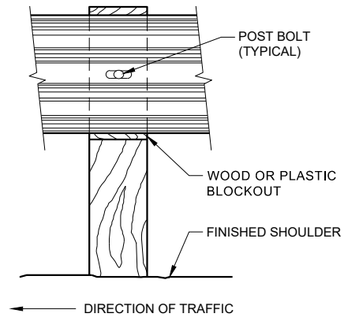
FRONT VIEW
QUARTER POST SPACING (QS)



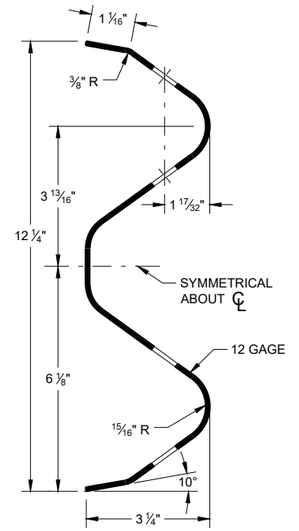
FRONT VIEW
MID-SPAN BEAM SPLICE



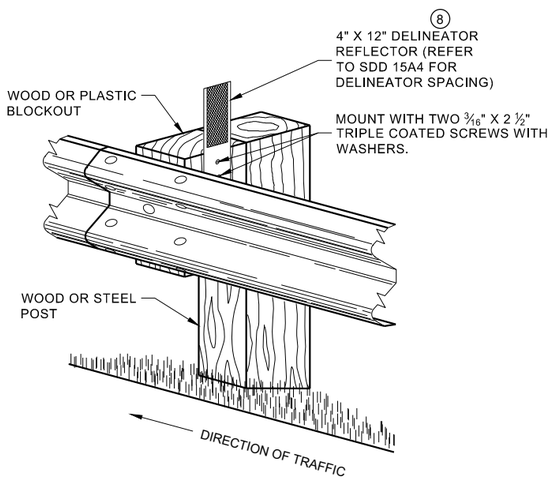
FRONT VIEW AT STEEL POST



FRONT VIEW AT WOOD POST



SECTION THRU W-BEAM RAIL



ONE SIDED REFLECTOR DETAIL AND TYPICAL INSTALLATION

GENERAL NOTES

⑧ DO NOT INSTALL REFLECTORS ON THE FIRST 50 FEET OF THE APPROACH END OF THE ENERGY ABSORBING TERMINAL.

⑨ 25 FEET OF HALF POST SPACING IS REQUIRED ON APPROACH AND DEPARTURE ENDS OF QUARTER POST SPACING.

POST BOLTS ARE A ⅝" DIAMETER ASTM A307 GUARDRAIL BOLT. A POST BOLT REQUIRES ⅝" DIAMETER A563A DOUBLE RECESSED (DR) HEAVY HEX NUT AND ⅝" DIAMETER F844 FLAT WASHER. POST BOLTS MAY BE LONGER IF MULTIPLE BLOCKOUTS ARE BEING USED.

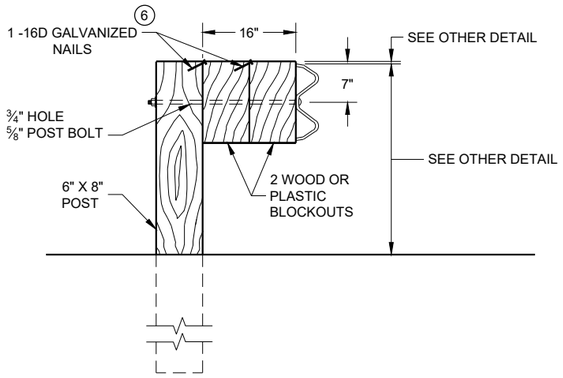
GUARD RAIL SPLICE BOLTS ARE A ⅝" DIAMETER ASTM A307 GUARDRAIL HEAD BOLT. A GUARDRAIL SPLICE BOLT REQUIRES ⅝" DIAMETER A563A DOUBLE RECESSED (DR) HEAVY HEX NUT.

MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

SDD 14B42 - 07b

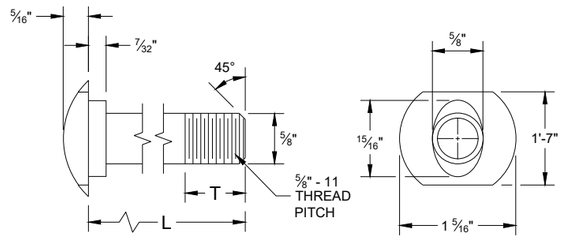


DETAIL FOR 16" BLOCKOUT DEPTH

IT IS ACCEPTABLE TO USE BLOCKOUTS UP TO 16" DEEP TO INCREASE THE POST OFFSET TO AVOID UNDERGROUND OBSTACLES. THERE IS NO LIMIT TO THE NUMBER OF POSTS THAT CAN HAVE ADDITIONAL BLOCKOUTS UP TO 16" DEEP.

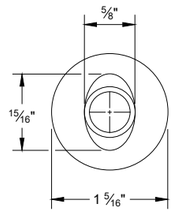
NOTE:

1. ALL FILLETS SHALL HAVE A MINIMUM RADIUS OF 3⁄16".
2. IF THE BOLT EXTENDS MORE THAN ¼" FROM THE NUT THE BOLT SHOULD BE TRIMMED BACK.

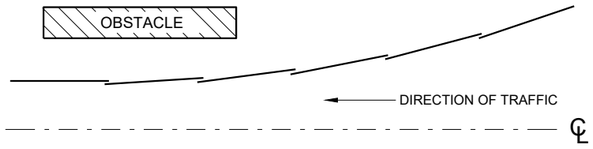


POST BOLT TABLE

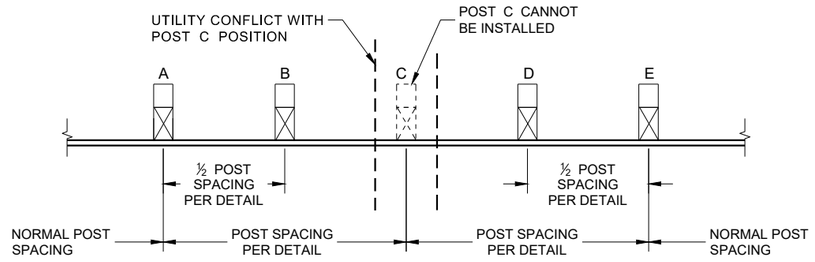
L	T (MIN.)
1 ¼"	1 ⅛"
2"	1 ¾"
10"	4"
14"	4 1⁄16"
18"	4"
21"	4 1⁄16"
25"	4"



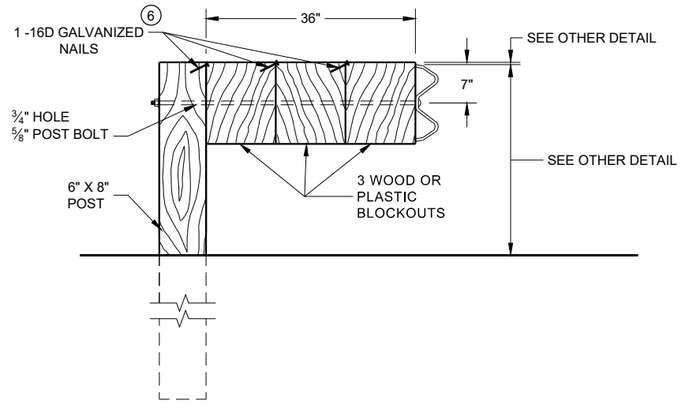
ALTERNATE BOLT HEAD



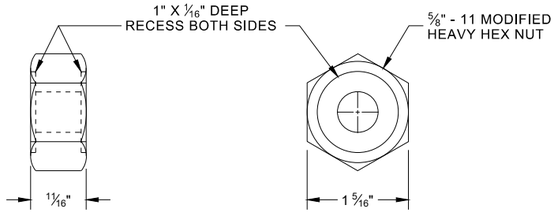
PLAN VIEW
BEAM LAPPING DETAIL



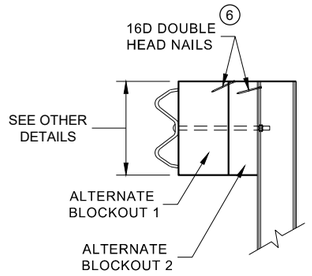
POST DRIVING FOR CONTINUOUS UNDERGROUND OBSTRUCTION



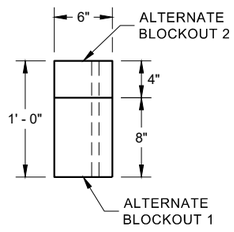
DETAIL FOR 36" BLOCKOUT DEPTH



POST BOLT, SPLICE BOLT AND RECESS NUT



SIDE VIEW



PLAN VIEW

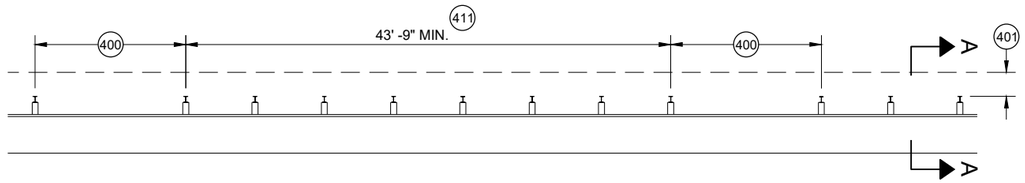
ALTERNATE WOOD BLOCKOUT DETAIL

NOTES: UNDER SPECIAL CIRCUMSTANCES, SUCH AS AVOIDING OBSTACLES THAT ARE NOT RELOCATED, IT IS ACCEPTABLE TO INSTALL ADDITIONAL BLOCKOUTS TO OBTAIN UP TO 36" DEPTH FOR ONE OR TWO POSTS IN A SECTION OF GUARDRAIL.

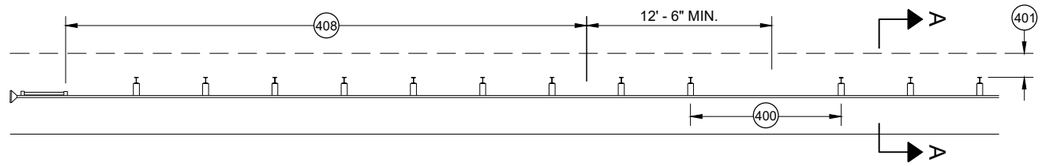
DO NOT USE 16" OR 36" BLOCKOUTS IF IT CAUSES THE POST TO BE DRIVEN BEYOND SHOULDER HINGE POINT OR CAUSES A FIXED OBJECT TO BE WITHIN THE DEFLECTION DISTANCE OF THE BARRIER.

(6) WHEN USING STEEL POST AD WOOD BLOCKOUTS, INSTALL FOUR 16D GALVANIZED NAILS. INSTALL NAILS AT THE BACK CORNERS OF THE BLOCK AND BEND THE NAILS OVER THE FLANGE OF THE STEEL POST.

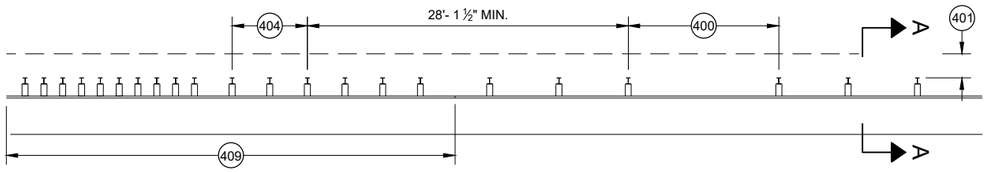
MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL



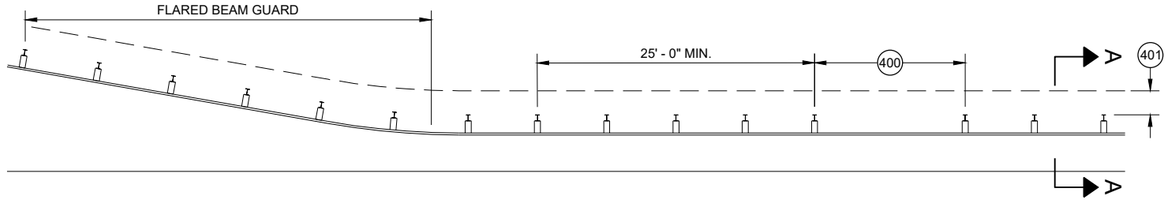
MISSING POST IN MGS GUARDRAIL



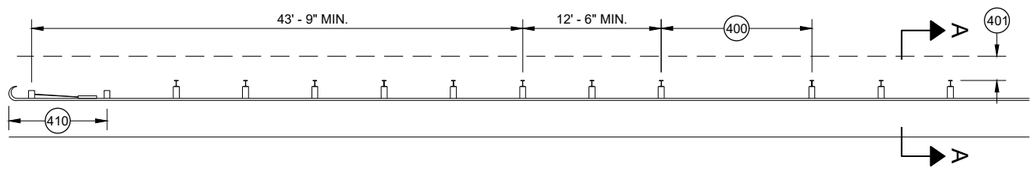
MISSING POST IN MGS GUARDRAIL NEAR EAT



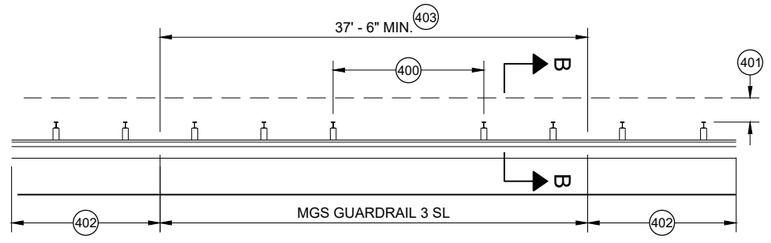
MISSING POST IN MGS GUARDRAIL NEAR AN APPROACH TRANSITION



MISSING POST IN MGS GUARDRAIL NEAR FLARED BEAM GUARD

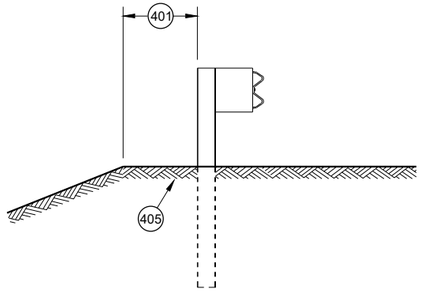


MISSING POST IN MGS GUARDRAIL NEAR A TYPE 2 END TERMINAL

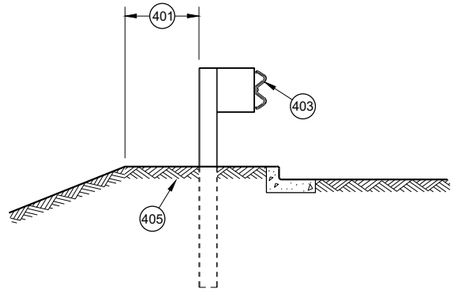


MISSING POST IN SHORT SPAN MGS GUARDRAIL NEAR CURB (SL) 407

(400) MAX SPAN 12' - 6"
(401) 2' MIN.
(402) MGS GUARDRAIL 3
(403) NESTING BEAM GUARD
(404) ASYMMETRIC TRANSITION
(405) SOIL WELL DRAINED AND COMPACTED
(406) SEE OTHER DRAWINGS IN THIS SDD
(407) SEE OTHER DRAWINGS FOR MIN. SPACING BETWEEN SPANS
(408) SEE SDD 14B44
(409) SEE SDD 14B45
(410) SEE SDD 14B47
(411) MINIMUM DISTANCE BETWEEN MISSING POST SPANS.



SECTION A - A 406



SECTION B - B 406

MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2021 — DATE
/S/ Rodney Taylor — ROADWAY STANDARDS DEVE UNIT SUPERVISOR
FHWA

6

SDD 14B42 - 07d

GENERAL NOTES

(A) THE SLOPE IN THE AREA BOUNDED BY THE GRADELINE, THE HINGE POINT LINE (HPL) AND THE CLEAR ZONE LIMITS (CZL) SHALL BE 4:1 OR FLATTER.

(B) AFTER FINAL ASSEMBLY, RECHECK CABLE TO BE SURE IT IS TAUT AND HAS NOT RELAXED

(C) DIFFERENT MANUFACTURERS REQUIRE DIFFERENT PERFORATED W - BEAM RAIL END PANELS. SEE MANUFACTURER'S INFORMATION.

(D) ATTACH ALUMINUM SHEET TO E.A.T. HEAD USING 4 STAINLESS STEEL SELF - TAPPING SCREWS. ONE SCREW PER CORNER.

(E) HARDWARE MAY VARY BETWEEN MANUFACTURER. SEE MANUFACTURER'S DRAWING FOR INFORMATION.

DIMENSIONS MAY VARY, MANUFACTURER'S INFORMATION.

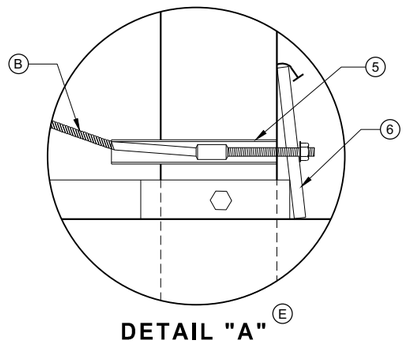
SEE SDD 14B42 FOR MORE INFORMATION.

* DO NOT ATTACH BLOCKOUTS TO POST 1 AND 2.

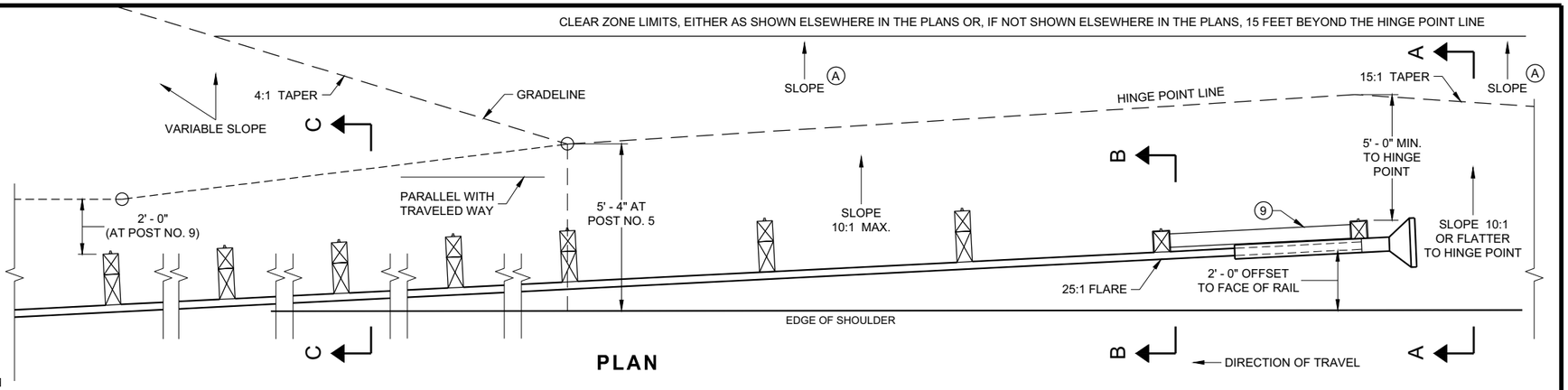
DO NOT INSTALL REFLECTORS ON THE FIRST 50 FEET OF THE APPROACH END OF THE ENERGY ABSORBING TERMINAL.

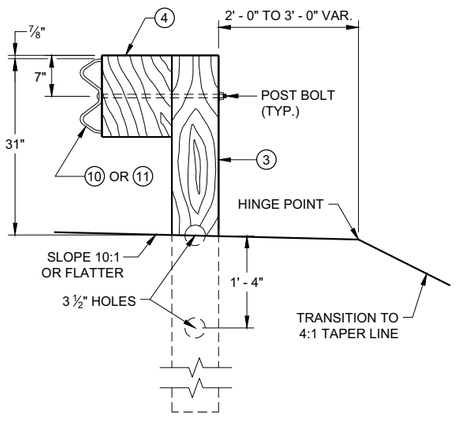
SEE MANUFACTURER'S DRAWING FOR SPLICE LOCATION, HARDWARE DIMENSIONS AND INSTALLATION INSTRUCTIONS.

THE CENTER OF THE UPPER 3 ½" DIAMETER HOLE ON POST NUMBER 3 THROUGH POST 9 IS TO BE FLUSH WITH THE GROUND LINE UP TO A MAXIMUM OF 2" ABOVE GROUND LINE. WOOD BLOCKS ON POSTS NUMBERED 3 THROUGH 9 MAY BE ADJUSTED UP TO 3" ABOVE THE TOP OF POST.

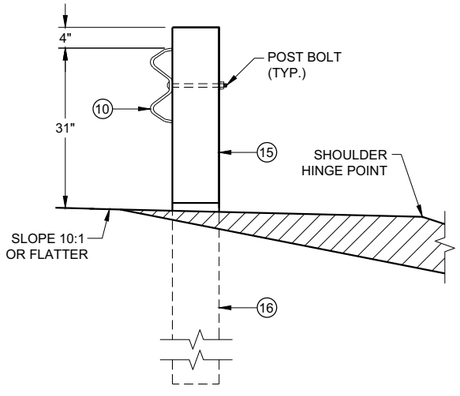


DETAIL "A" (E)

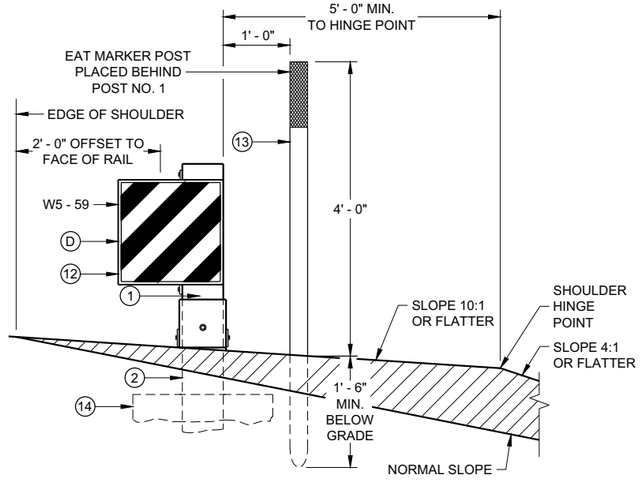




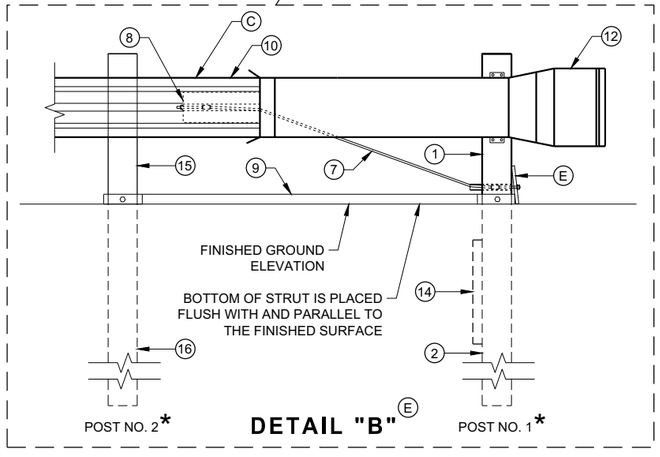
SECTION C - C
TYPICAL AT POST NOS. 3 - 9



SECTION B - B
TYPICAL AT POST NO. 2*



SECTION A - A
TYPICAL AT POST NO. 1*



DETAIL "B" (E)

MIDWEST GUARDRAIL SYSTEM
ENERGY ABSORBING TERMINAL (MGS)

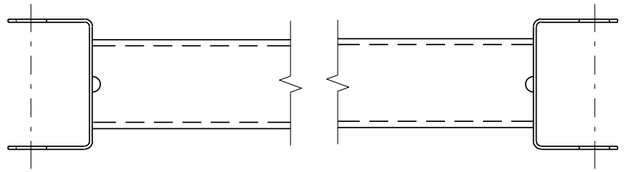
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

SDD 14B44 - 04a

SDD 14B44 - 04a

6

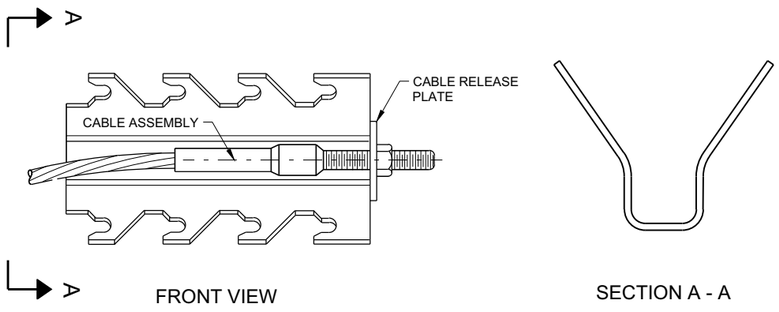
6



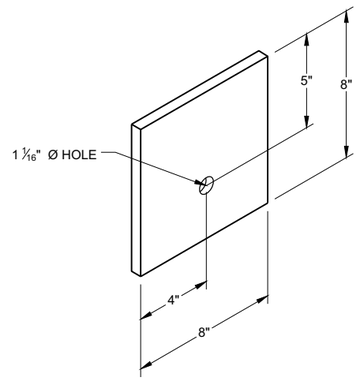
GENERIC GROUND STRUT ⑨ Ⓔ

BILL OF MATERIALS

PART NO.	DESCRIPTION MATERIALS PROVIDED BY MGS EAT MANUFACTURER. SEE MANUGACTURER'S DETAILS FOR MORE INFORMATION.
①	UPPER POST NO. 1 6" X 6" TUBE
②	LOWER POST NO. 1
③	WOOD CRT
④	WOOD BLOCKOUT
⑤	PIPE SLEEVE
⑥	BEARING PLATE
⑦	BCT CABLE ASSEMBLY
⑧	ANCHOR CABLE BOX
⑨	GROUND STRUT
⑩	PERFORATED W-BEAM RAIL END PANEL, 12'-6" LONG.
⑪	STANDARD W-BEAM RAIL. MULTIPLE SECTIONS REQUIRED. SECTIONS VARY IN LENGTH.
⑫	IMPACT HEAD
⑬	EAT MARKER POST - YELLOW (SEE APPROVED PRODUCTS LIST)
⑭	SOIL PLATE
⑮	UPPER POST NO. 2
⑯	LOWER POST NO. 2



GENERIC ANCHOR CABLE BOX ⑧ Ⓔ



BEARING PLATE ⑥ Ⓔ

6

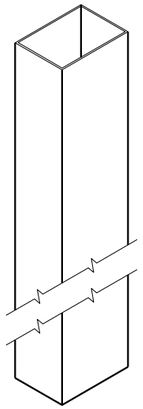
6

SDD 14B44 - 04b

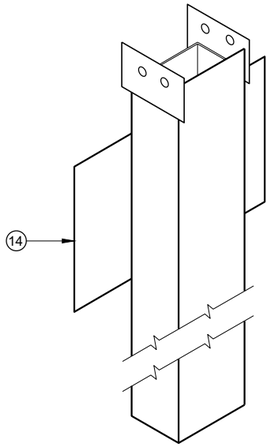
SDD 14B44 - 04b

MIDWEST GUARDRAIL SYSTEM
ENERGY ABSORBING TERMINAL
(MGS)

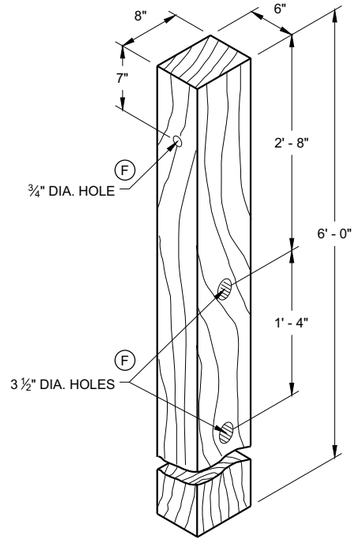
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION



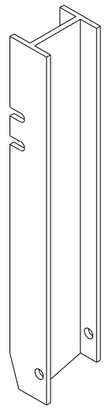
UPPER POST NO. 1 (1) (E)



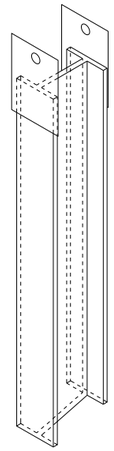
LOWER POST NO. 1 (2) (E)



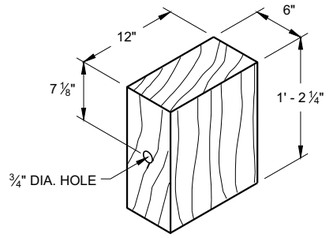
WOOD CRT POST (3) (E)
POSTS NUMBER 3-9



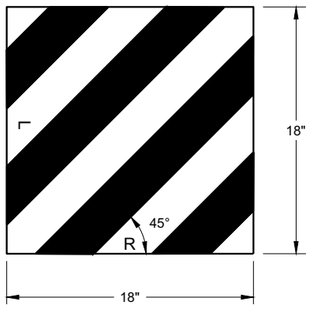
UPPER POST NO. 2 (15) (E)



LOWER POST NO. 2 (16) (E)

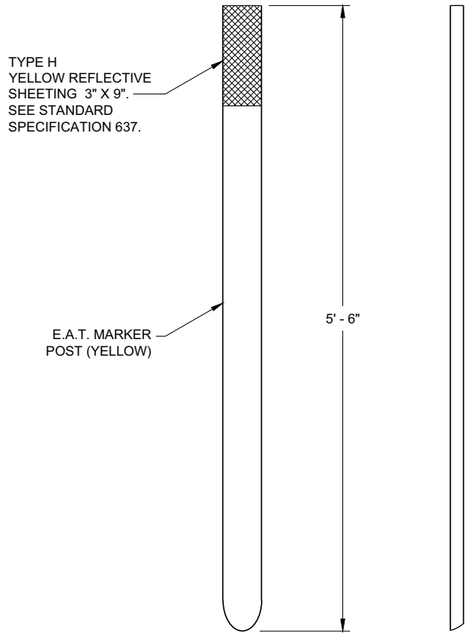


WOOD BLOCKOUT (4)
REQ'D. AT ALL POSTS EXCEPT POST NO'S 1 & 2



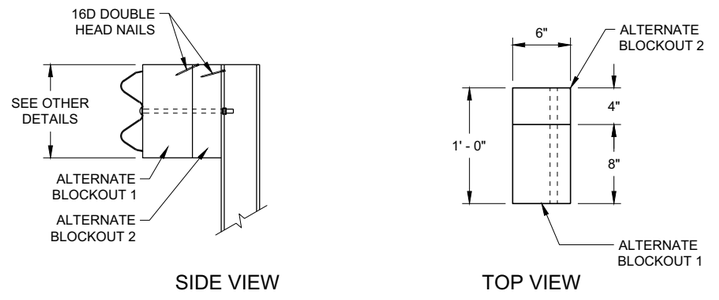
W5 - 59

REFLECTIVE SHEETING DETAIL (E)



FRONT VIEW SIDE VIEW

E.A.T. MARKER POST (13)



SIDE VIEW TOP VIEW

ALTERNATE WOOD BLOCKOUT DETAIL

MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)

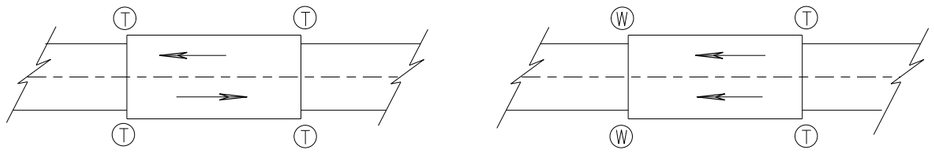
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
7/2018 — DATE
/S/ Rodney Taylor — ROADWAY STANDARDS DEVE UNIT SUPERVISOR

FHWA

6

SDD 14B44 - 04c



TWO WAY TRAFFIC

ONE WAY TRAFFIC

(T) THRIE BEAM CONNECTION

(W) W-BEAM CONNECTION WHEN REQUIRED

TYPICAL LOCATIONS OF THRIE BEAM AND W-BEAM CONNECTIONS TO BRIDGE

GENERAL NOTES

IF ROCK IS ENCOUNTERED, REMOVE ROCK TO FULL DEPTH OF POST PLUS 2½", AND 12" DIAMETER AROUND POST. SEE 14B42 FOR MORE DETAILS.

TRANSITION USES STEEL POSTS ONLY.

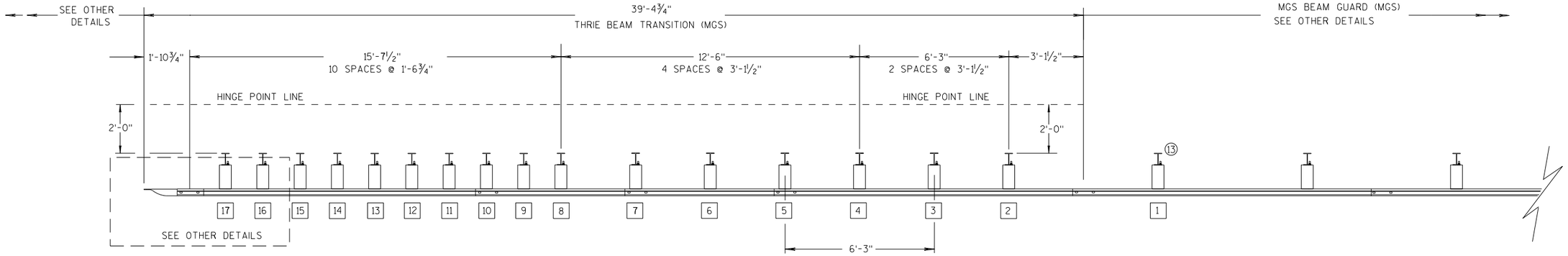
SEE STANDARD DETAIL DRAWING 14 B 42 FOR MORE INFORMATION.

POST 2 THROUGH 17 USES STEEL POST ONLY

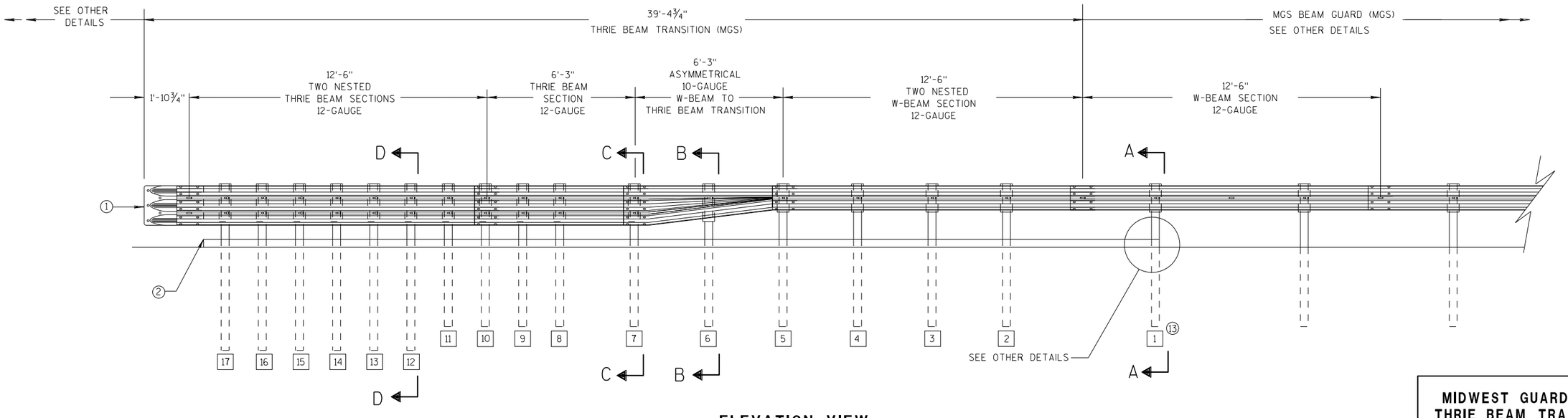
(1) BRIDGE RAILING TYPE "W" DOES NOT REQUIRE A TERMINAL CONNECTOR.

(2) OPTIONAL CURB AND GUTTER OR DRAINAGE FEATURE SEE PLAN FOR INFORMATION.

(13) STEEL OR WOOD POST IS ACCEPTABLE AT POST 1. SEE SDD14B42



PLAN VIEW



ELEVATION VIEW

MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

6

S.D.D. 14 B 45-5a

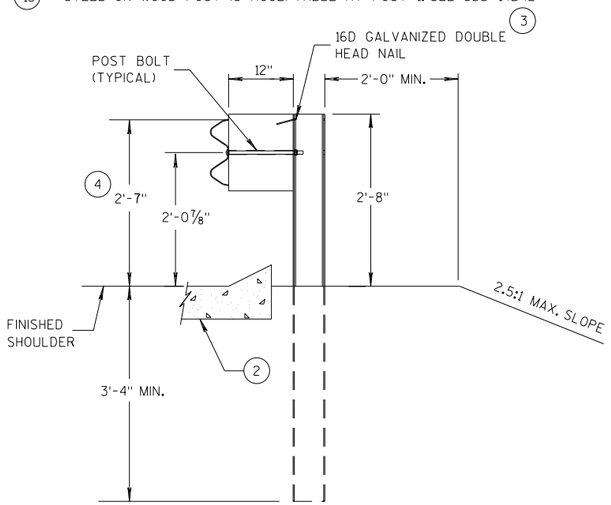
GENERAL NOTES

(2) OPTIONAL CURB AND GUTTER OR DRAINAGE FEATURE SEE PLAN FOR INFORMATION.

(3) WHEN USING STEEL POSTS AND WOOD BLOCKOUTS INSTALL FOUR 10D GALVANIZED NAILS. INSTALL NAILS AT THE BACK CORNERS OF THE BLOCK AND BEND THE NAILS OVER THE FLANGE OF THE STEEL POST.

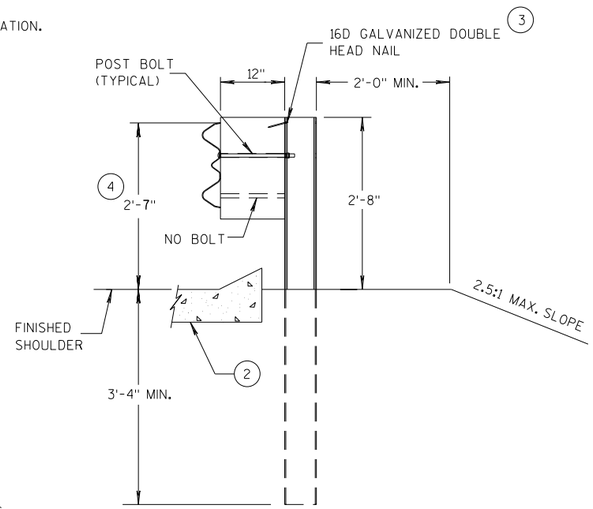
(4) TOLERANCE FOR TOP OF W-BEAM RAIL IS ± 1".

(13) STEEL OR WOOD POST IS ACCEPTABLE AT POST 1. SEE SDD 14B42



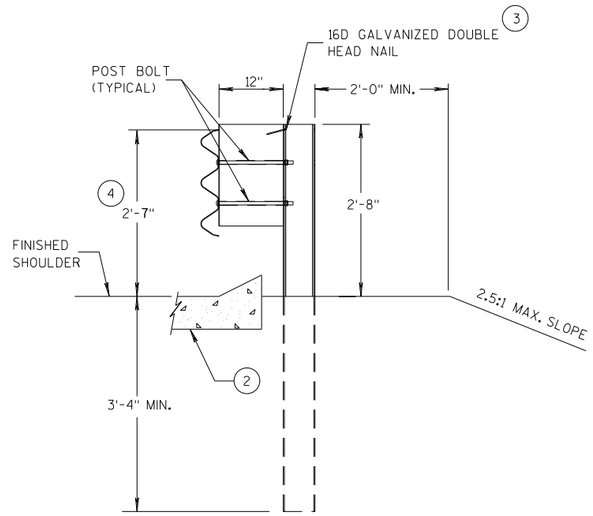
SECTION A-A (13)

POSTS 1-5



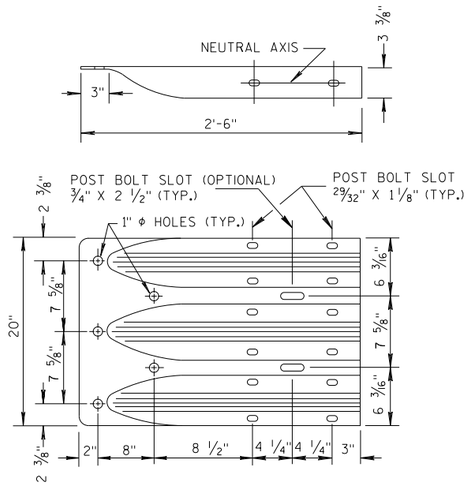
SECTION B-B

POST 6

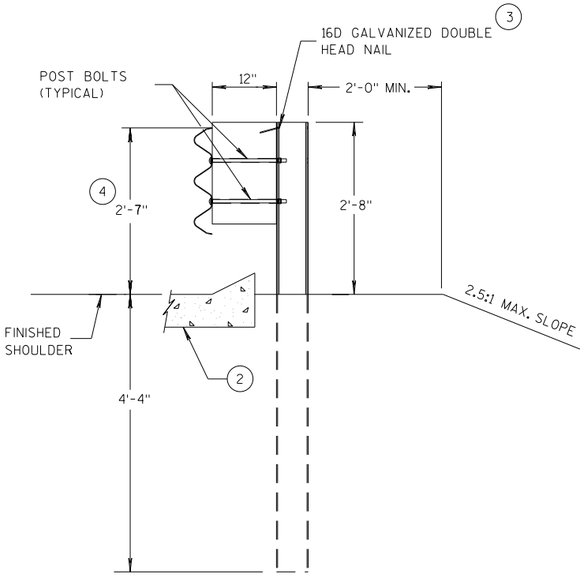


SECTION C-C

POSTS 7-11

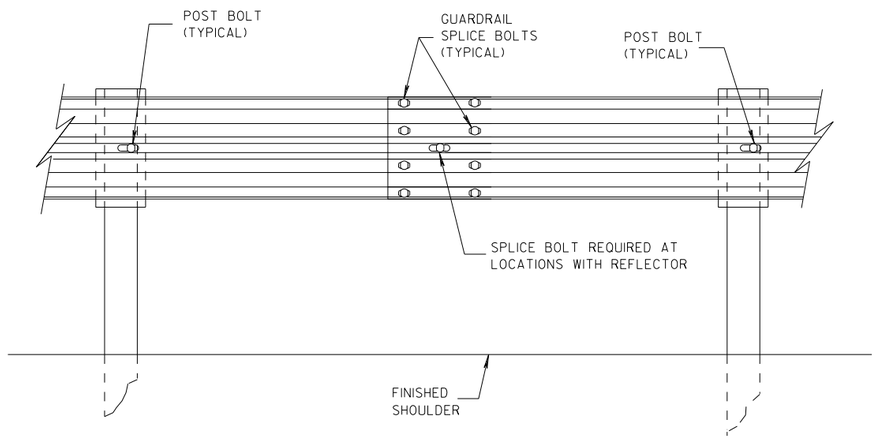


THRIE BEAM TERMINAL CONNECTOR



SECTION D-D

POSTS 12-17



SPLICE DETAIL

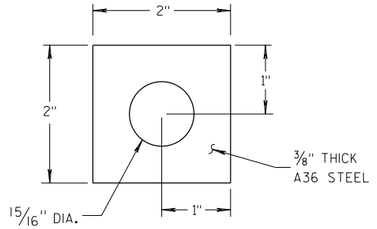
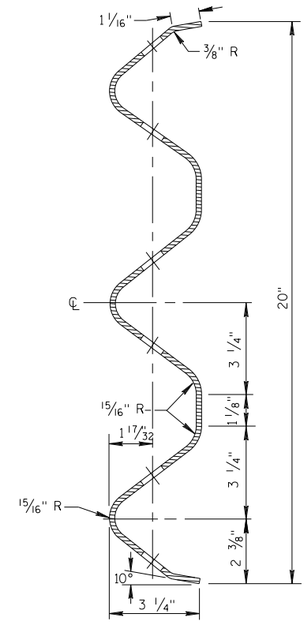


PLATE WASHER DETAIL



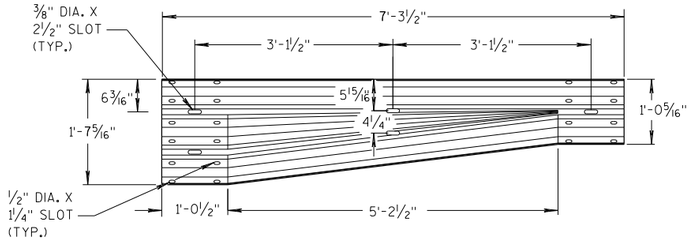
SECTION THRU THRIE BEAM RAIL ELEMENT

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

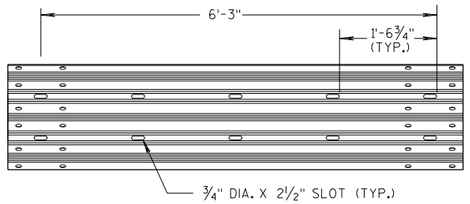
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOF

6

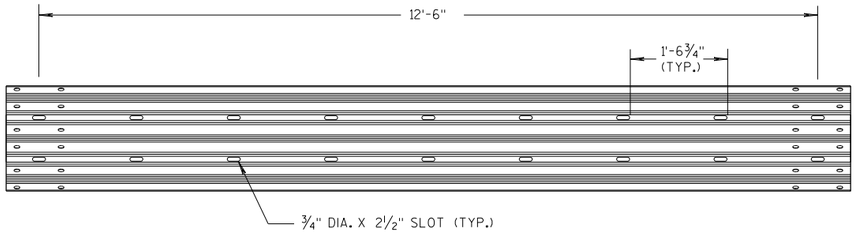
S.D.D. 14 B 45-5b



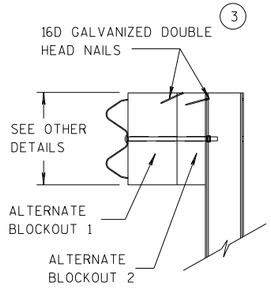
W-BEAM TO THRIE BEAM TRANSITION SECTION



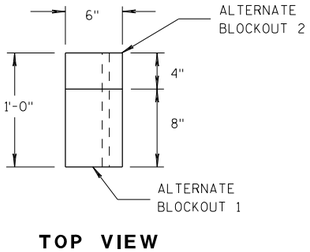
6'-3" THRIE BEAM SECTION



12'-6" THRIE BEAM SECTION

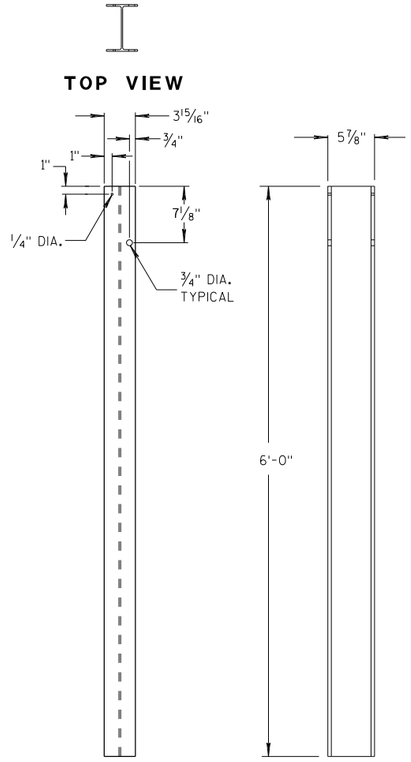


SIDE VIEW



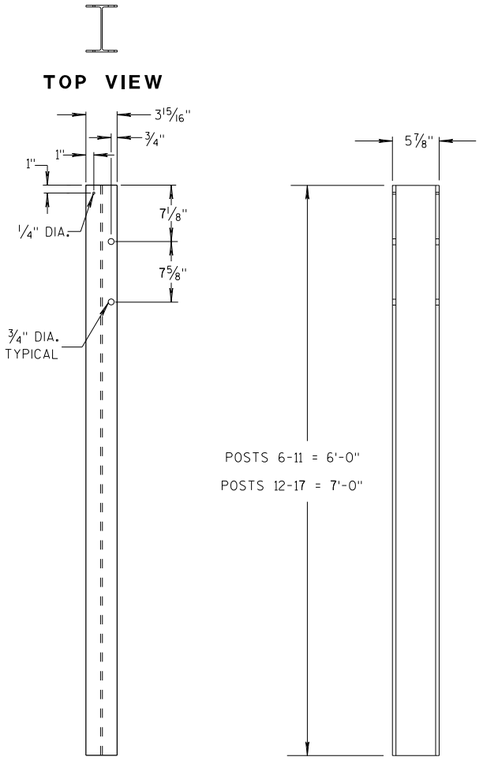
TOP VIEW

ALTERNATE WOOD BLOCKOUT DETAIL



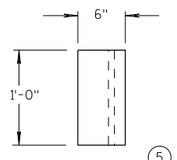
FRONT VIEW SIDE VIEW

STEEL POSTS 1-5 (13)

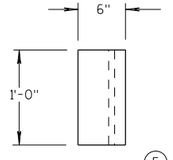


FRONT VIEW SIDE VIEW

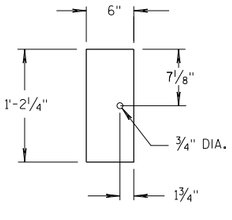
STEEL POSTS 6-17



TOP VIEW (5)

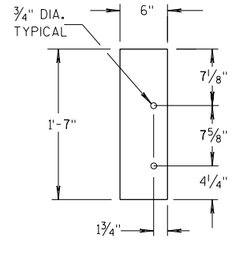


TOP VIEW (5)



FRONT VIEW

BLOCKOUT POSTS 1-5



FRONT VIEW

BLOCKOUT POSTS 6-17

GENERAL NOTES

STEEL POSTS ARE W6X9 OR W6X8.5.

BOLT HOLES FOR POST ARE ON FRONT AND OF SIDE OF POST.

(3) WHEN USING STEEL POSTS AND WOOD BLOCKOUTS INSTALL FOUR 16D GALVANIZED NAILS. INSTALL NAILS AT THE BACK CORNERS OF THE BLOCK AND BEND THE NAILS OVER THE FLANGE OF THE STEEL POST.

(5) WOOD BLOCKS MAY BE CONSTRUCTED OUT OF 2 WOOD BLOCKS. SEE ALTERNATE WOOD BLOCK DETAIL.

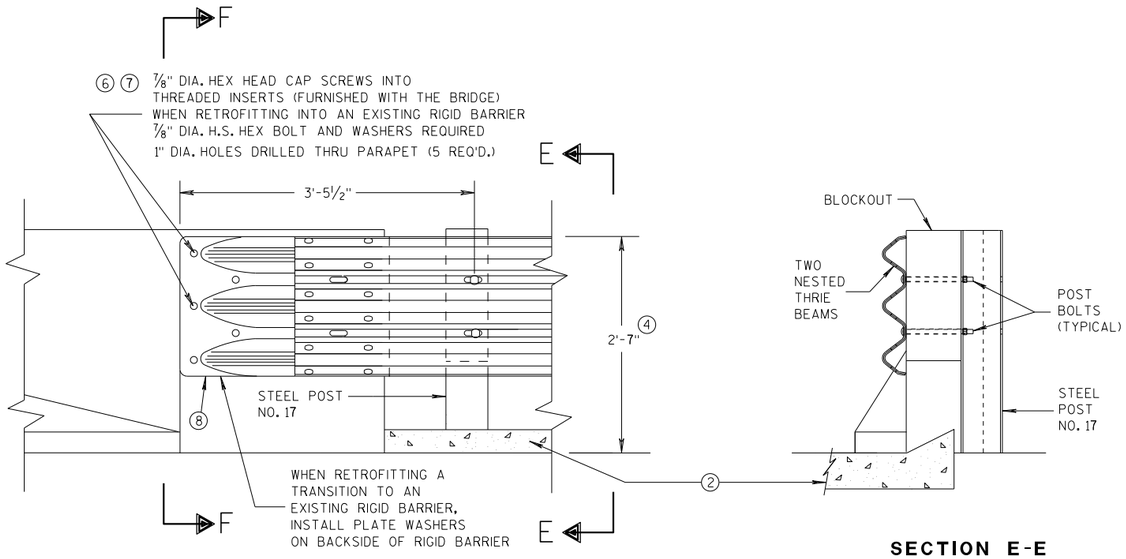
(13) STEEL OR WOOD POST IS ACCEPTABLE AT POST 1. SEE SDD 14B42.

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

6

S.D.D. 14 B 45-5c



FRONT VIEW

SECTION E-E

THRIE BEAM CONNECTION TO BRIDGE PARAPET WITH SQUARE ENDS

GENERAL NOTES

THESE ARE TYPICAL CONNECTION DETAILS. ADJUST THE POSTION OF CONNECTIONS TO EXISTING BRIDGES TO FIT THE ACTUAL BRIDGE AND SITE DIMENSIONS.

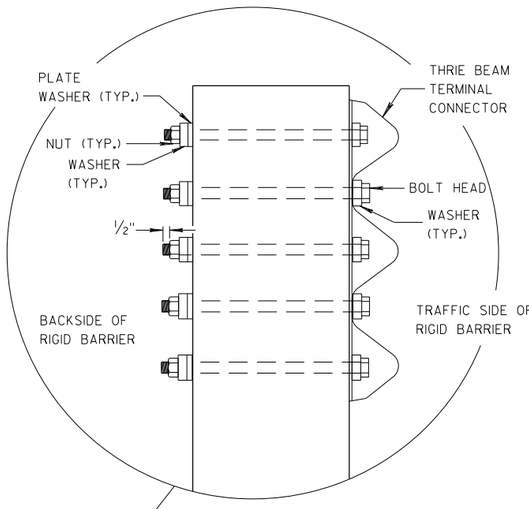
② OPTIONAL CURB AND GUTTER OR DRAINAGE FEATURE SEE PLAN FOR INFORMATION.

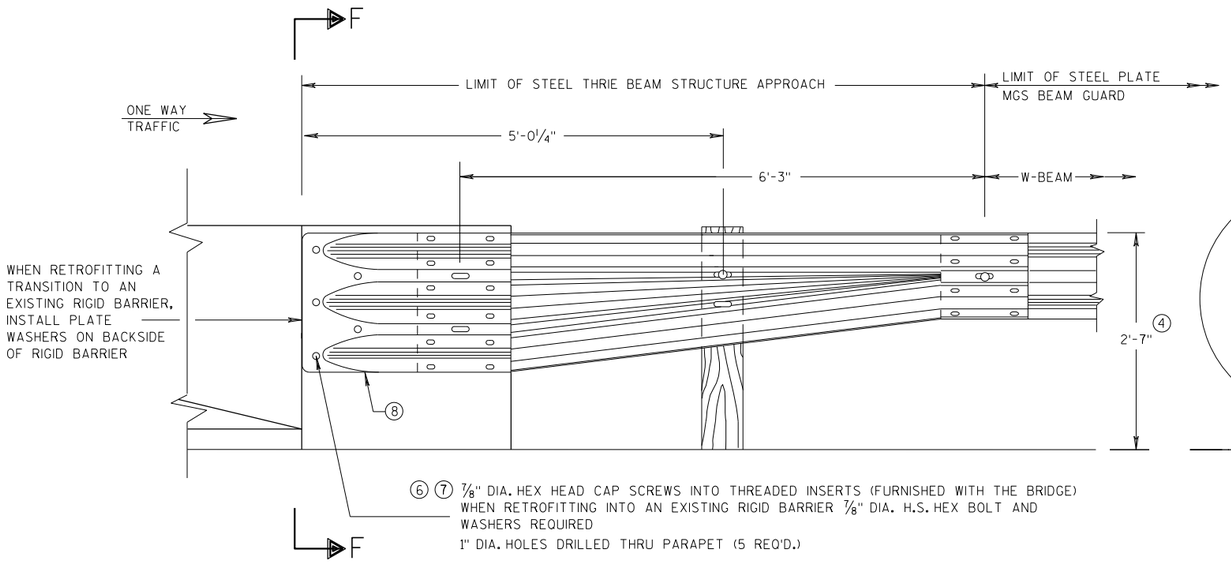
④ TOLERANCE FOR TOP OF BEAM IS ± 1".

⑥ DRILLING BOLT HOLES THROUGH THE PARAPET, BOLTS, NUTS, WASHERS AND REPAIRING DAMAGED CONCRETE ARE INCIDENTAL TO THE CONTRACT.

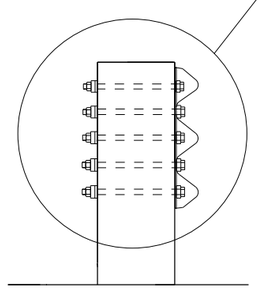
⑦ BOLTS MAY BE A325 BOLTS OR A449 BOLTS. BOLT LENGTH AND THREADING LENGTH ARE TO ALLOW FOR A TIGHT CONNECTION BETWEEN RIGID BARRIER AND THRIE BEAM CONNECTION PLATE. CONTRACTOR IS TO FIELD VERIFY BOLT LENGTH AND THREAD LENGTH. ONE ROUND WASHER REQUIRED BETWEEN BOLT HEAD AND THRIE BEAM CONNECTOR PLATE. BOLTS THAT EXTEND THROUGH THE PARAPET AND OUT THE BACK FACE REQUIRE A HARDENED ROUND STEEL WASHER THAT IS 2" O.D. X 5/32" THICK AND ONE PLATE WASHER. REPAIR ANY DAMAGED CONCRETE FROM BOLT INSTALLATION.

⑧ THE RECESS FOR A W-BEAM CONNECTION, WHICH EXISTS ON SOME PARAPETS OF THIS TYPE, SHALL BE FILLED WITH A TREATED TIMBER BLOCKOUT. BLOCKOUT SIZE IS 1'-6" X 2'-0" X 3 1/2".

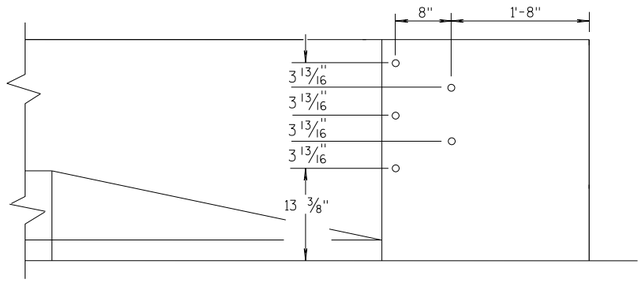




FRONT VIEW



SECTION F-F



DRILL HOLE LOCATION

W BEAM TRANSITION AND CONNECTION TO BRIDGE PARAPETS WITH SQUARE ENDS

(USE ONLY ON THE TRAFFIC EXIT END OF ONE WAY BRIDGES)

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
07/2018 — DATE
/S/ Rodney Taylor — ROADWAY STANDARDS D[illegible] UNIT SUPERVI[illegible]NT
FHWA

6

S.D.D. 14 B 45-5d

6

S.D.D. 14 B 45-5d

GENERAL NOTES

THESE ARE TYPICAL CONNECTION DETAILS. ADJUST THE POSTION OF CONNECTIONS TO EXISTING BRIDGES TO FIT THE ACTUAL BRIDGE AND SITE DIMENSIONS.

(2) OPTIONAL CURB AND GUTTER OR DRAINAGE FEATURE SEE PLAN FOR INFORMATION.

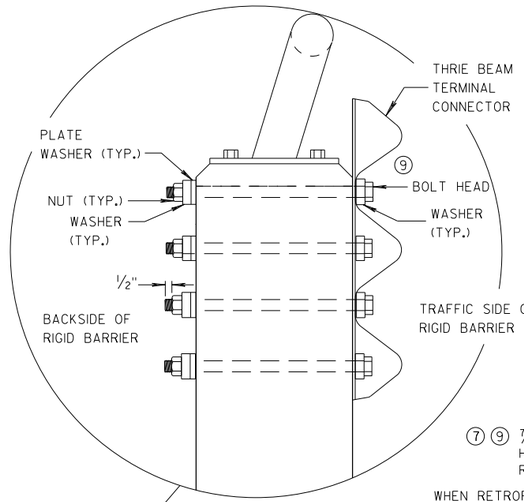
(4) TOLERANCE FOR TOP OF BEAM IS ± 1".

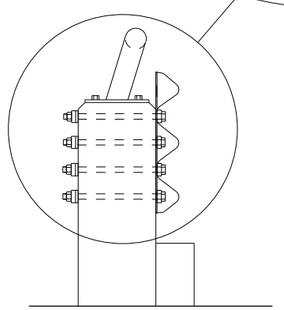
(6) DRILLING BOLT HOLES THROUGH THE PARAPET, BOLTS, NUTS, WASHERS AND REPAIRING DAMAGED CONCRETE ARE INCIDENTAL TO THE CONTRACT.

(7) BOLTS MAY BE A325 BOLTS OR A449 BOLTS. BOLT LENGTH AND THREADING LENGTH ARE TO ALLOW FOR A TIGHT CONNECTION BETWEEN RIGID BARRIER AND THRIE BEAM CONNECTION PLATE. CONTRACTOR IS TO FIELD VERIFY BOLT LENGTH AND THREAD LENGTH. ONE ROUND WASHER REQUIRED BETWEEN BOLT HEAD AND THRIE BEAM CONNECTOR PLATE. BOLTS THAT EXTEND THROUGH THE PARAPET AND OUT THE BACK FACE REQUIRE A HARDENED ROUND STEEL WASHER THAT IS 2" O.D. X 5/32" THICK AND ONE PLATE WASHER. REPAIR ANY DAMAGED CONCRETE FROM BOLT INSTALLATION.

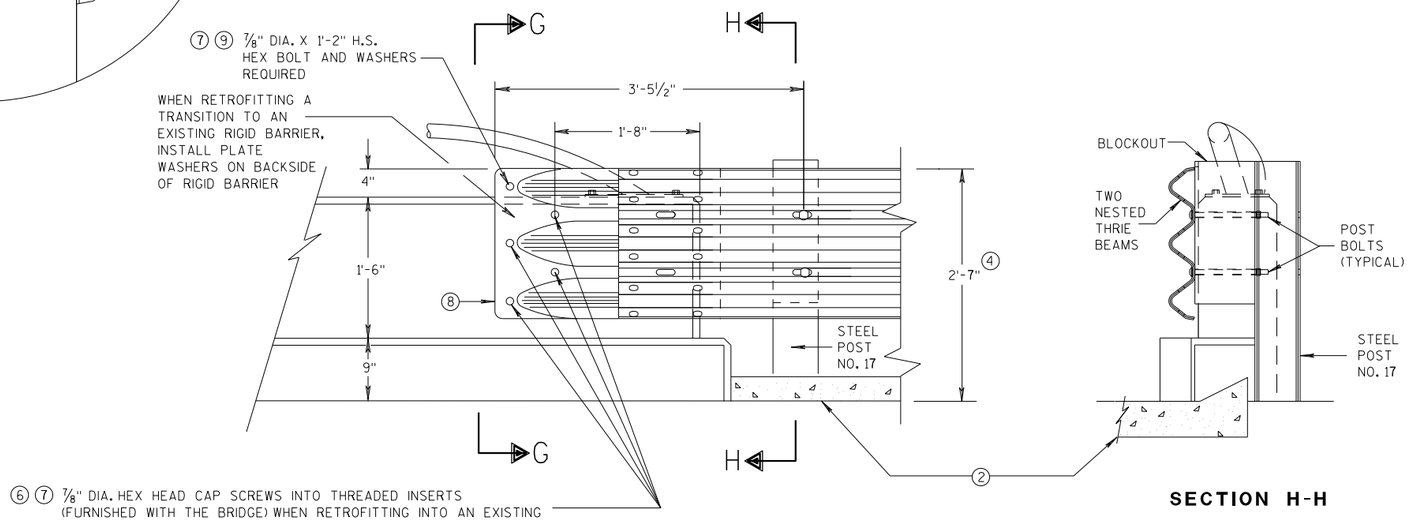
(8) THE RECESS FOR A W-BEAM CONNECTION, WHICH EXISTS ON SOME PARAPETS OF THIS TYPE, SHALL BE FILLED WITH A TREATED TIMBER BLOCKOUT. BLOCKOUT SIZE IS 1'-6" X 2'-0" X 3 ½".

(9) BOLT, NUT AND WASHERS NOT REQUIRED FOR THIS LOCATION WHEN RETROFITTING AN EXISTING PAPAPET AND THE HOLE IS EITHER ABOVE PARAPET OR WITHIN 4 INCHES OF THE EDGE OF PARAPET.





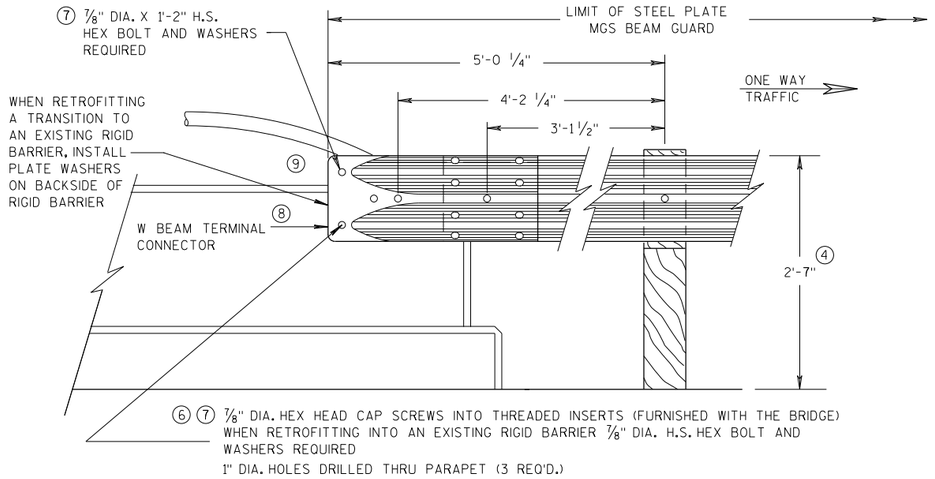
SECTION G-G



FRONT VIEW

SECTION H-H

THRIE BEAM CONNECTION TO VERTICAL FACED PARAPETS



FRONT VIEW

W BEAM CONNECTION TO VERTICAL FACE PARAPET

(USE ONLY ON THE TRAFFIC EXIT END OF ONE WAY BRIDGES)

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

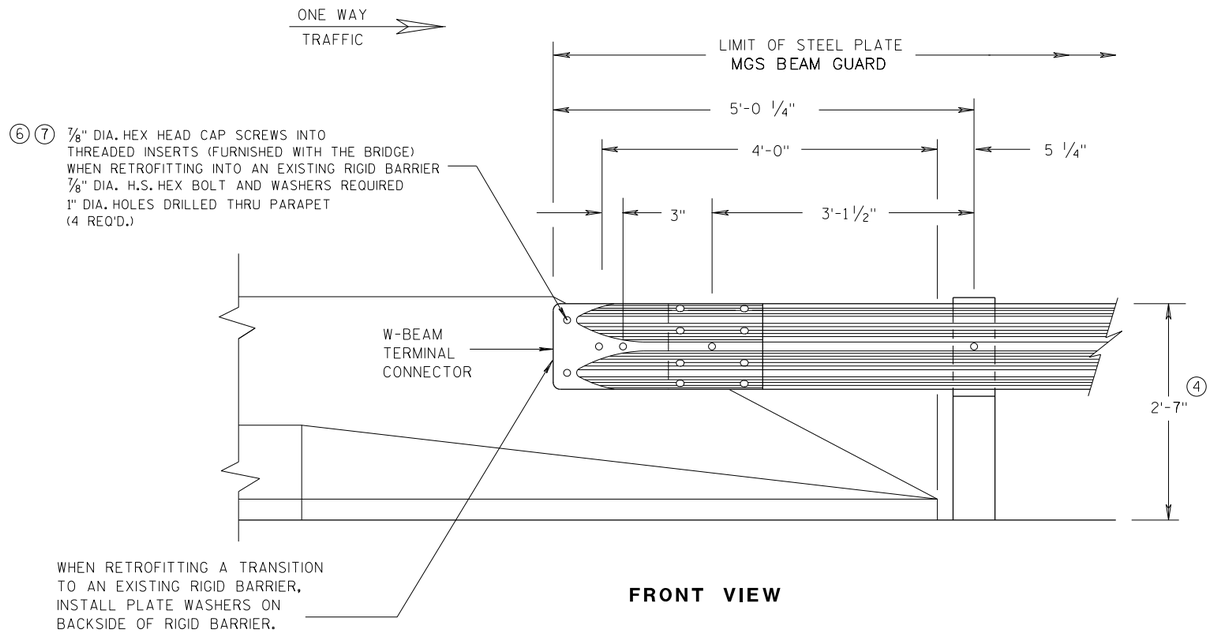
APPROVED
07/2018 — DATE
/S/ Rodney Taylor
ROADWAY STANDARDS D UNIT SUPERVIS
FHWA

6

S.D.D. 14 B 45-5e

6

S.D.D. 14 B 45-5e



FRONT VIEW

W BEAM CONNECTION TO PARAPETS WITH SLOPED ENDS

(USE ONLY AT TRAFFIC EXIT END OF ONE WAY BRIDGE)

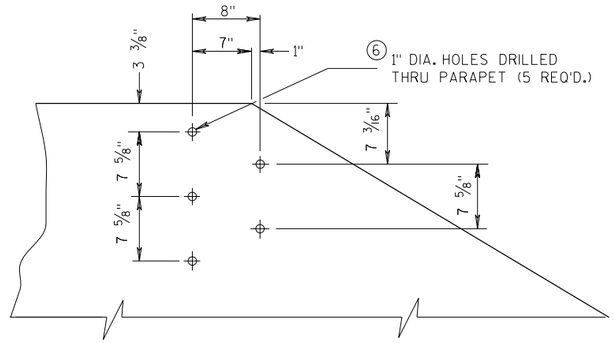
GENERAL NOTES

② OPTIONAL CURB AND GUTTER OR DRAINAGE FEATURE SEE PLAN FOR INFORMATION.

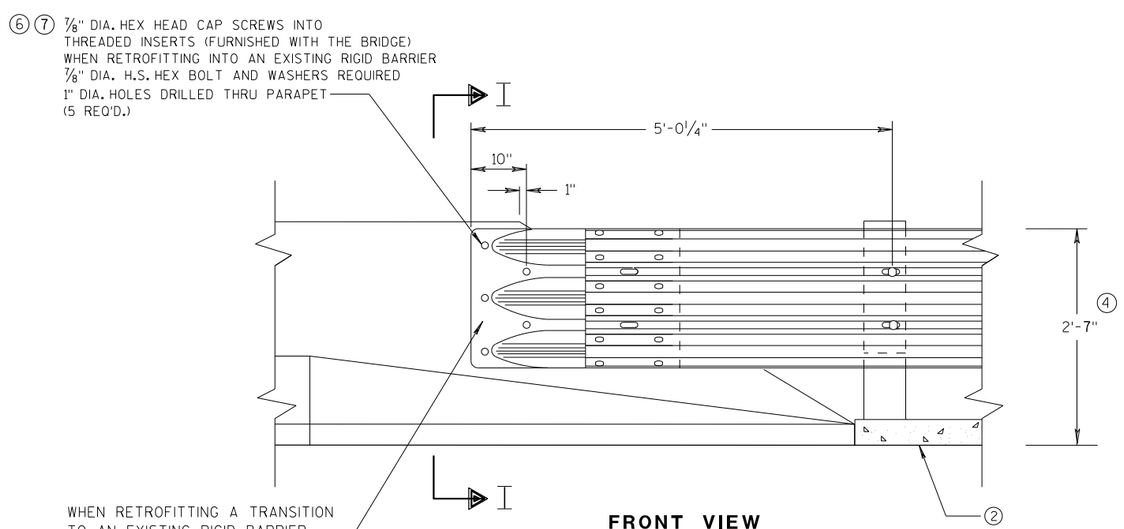
④ TOLERANCE FOR TOP OF BEAM IS ± 1".

⑥ DRILLING BOLT HOLES THROUGH THE PARAPET, BOLTS, NUTS, WASHERS AND REPAIRING DAMAGED CONCRETE ARE INCIDENTAL TO THE CONTRACT.

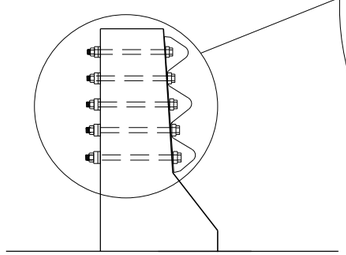
⑦ BOLTS MAY BE A325 BOLTS OR A449 BOLTS. BOLT LENGTH AND THREADING LENGTH ARE TO ALLOW FOR A TIGHT CONNECTION BETWEEN RIGID BARRIER AND THRIE BEAM CONNECTION PLATE. CONTRACTOR IS TO FIELD VERIFY BOLT LENGTH AND THREAD LENGTH. ONE ROUND WASHER REQUIRED BETWEEN BOLT HEAD AND THRIE BEAM CONNECTOR PLATE. BOLTS THAT EXTEND THROUGH THE PARAPET AND OUT THE BACK FACE REQUIRE A HARDENED ROUND STEEL WASHER THAT IS 2" O.D. X 5/32" THICK AND ONE PLATE WASHER. REPAIR ANY DAMAGED CONCRETE FROM BOLT INSTALLATION.



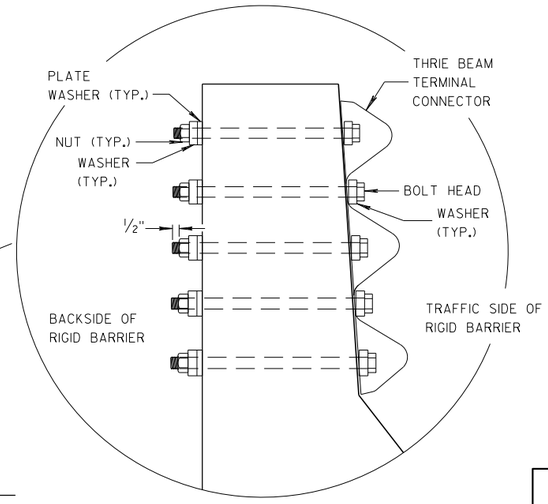
DRILL HOLE LOCATION AND PATTERN
FOR THRIE BEAM CONNECTION



FRONT VIEW



SECTION I-I



THRIE BEAM CONNECTION TO BRIDGE PARAPETS WITH SLOPED ENDS

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

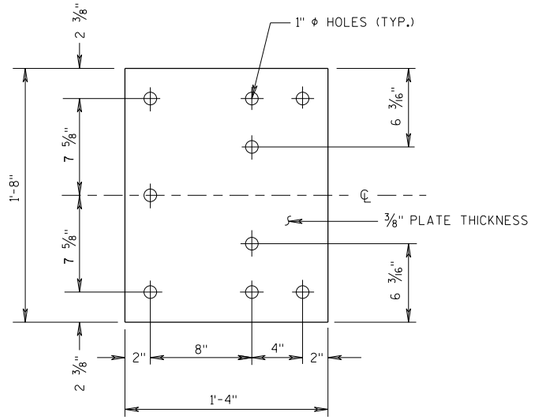
APPROVED
07/2018 — DATE
/S/ Rodney Taylor — ROADWAY STANDARDS [illegible] UNIT SUPERVI[illegible]ENT
FHWA

6

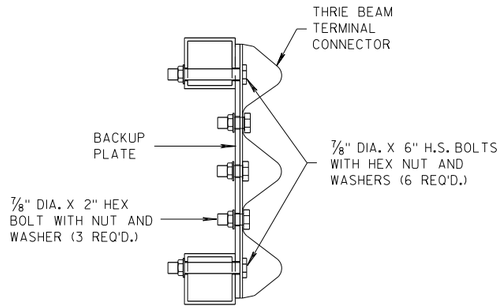
S.D.D. 14 B 45-5f

6

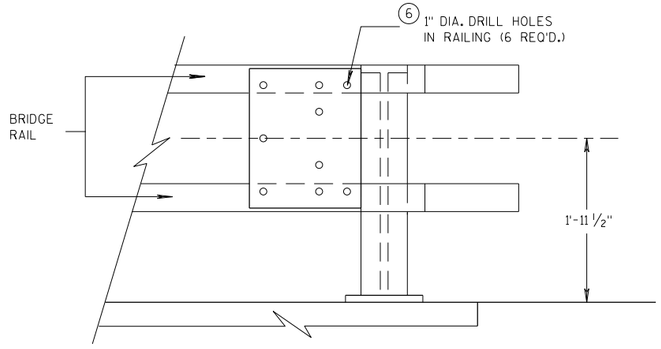
S.D.D. 14 B 45-5f



BACK-UP PLATE DETAIL



SECTION J-J

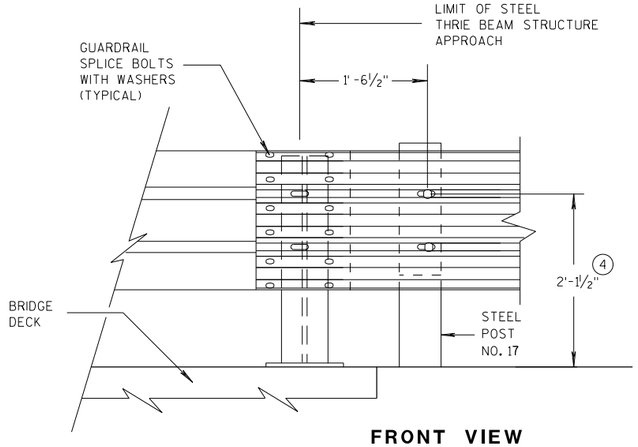


BACK-UP PLATE MOUNTING ONTO BRIDGE RAILING

GENERAL NOTES

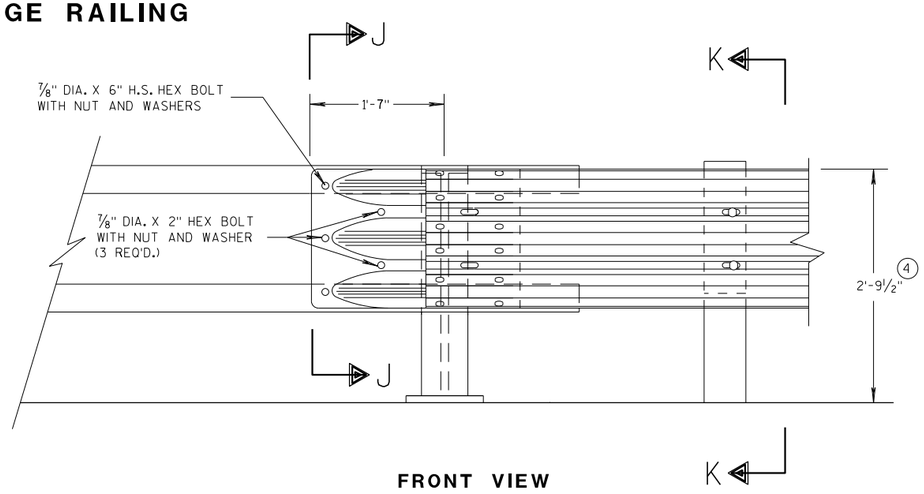
④ TOLERANCE FOR TOP OF BEAM IS ± 1".

⑥ DRILLING HOLES THROUGH THE PAPRPET, BOLTS, NUTS, WASHERS AND REPAIRING DAMAGED CONCRETE ARE INCIDENTAL TO THE CONTRACT.

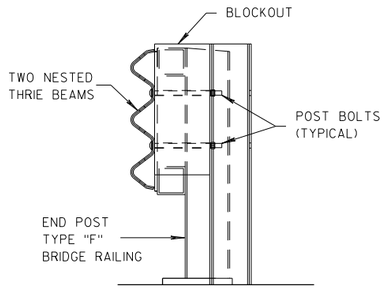


FRONT VIEW

THRIE BEAM CONNECTION TO STEEL RAILING TYPE "W"



FRONT VIEW



SECTION K-K

THRIE BEAM CONNECTION TO TUBULAR RAILING TYPE "F"

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED 07/2018 — DATE — FHWA

/S/ Rodney Taylor — ROADWAY STANDARDS DEVELOPMENT UNIT SUPERVISOR

346

6

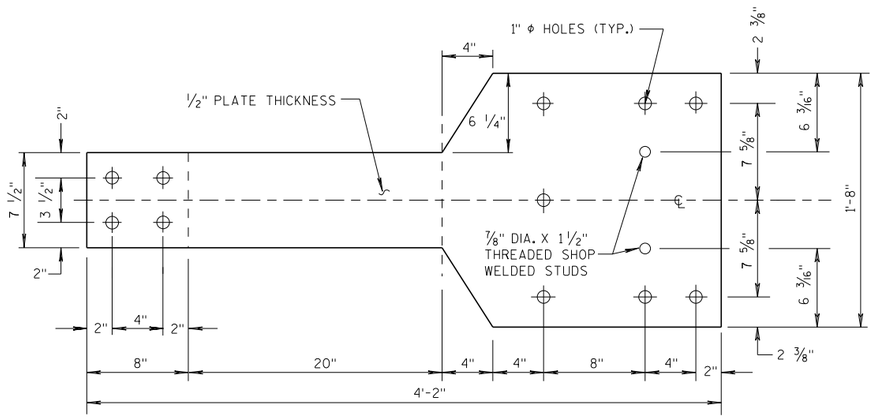
S.D.D. 14 B 45-5g

6

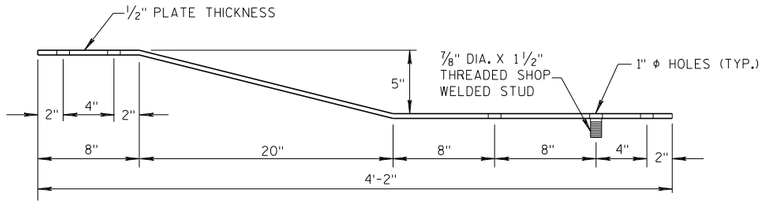
S.D.D. 14 B 45-5g

GENERAL NOTES

(4) TOLERANCE FOR TOP OF W-BEAM RAIL IS ± 1".

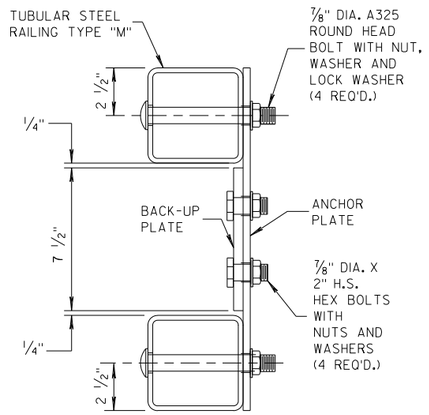


FRONT VIEW

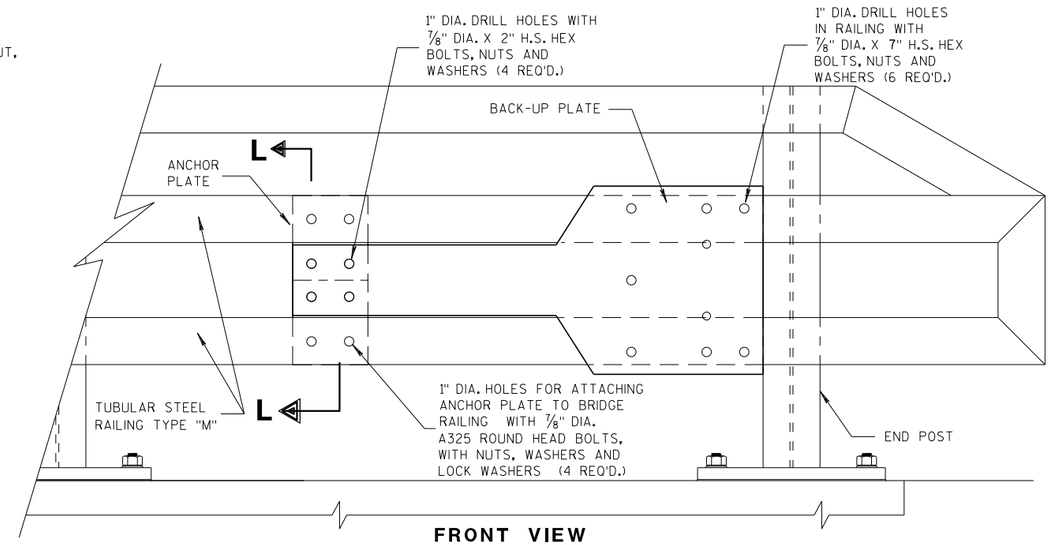


PLAN VIEW

BACK-UP PLATE DETAIL, TYPE "M"

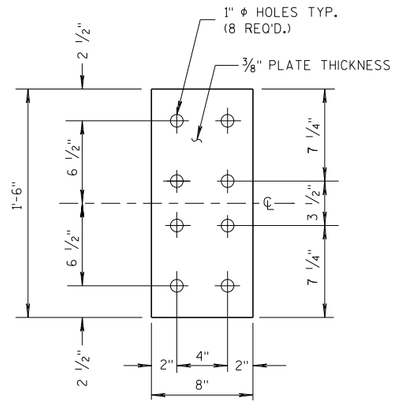


SECTION L-L



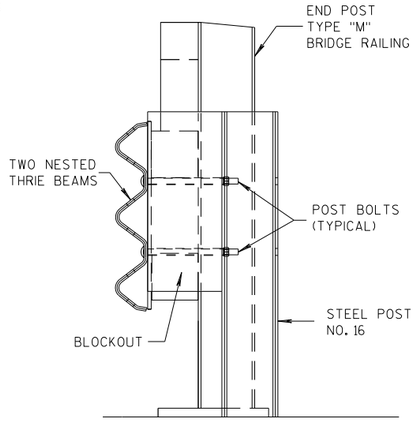
FRONT VIEW

ANCHOR AND BACK-UP PLATE MOUNTING TO BRIDGE RAILING, TYPE "M"

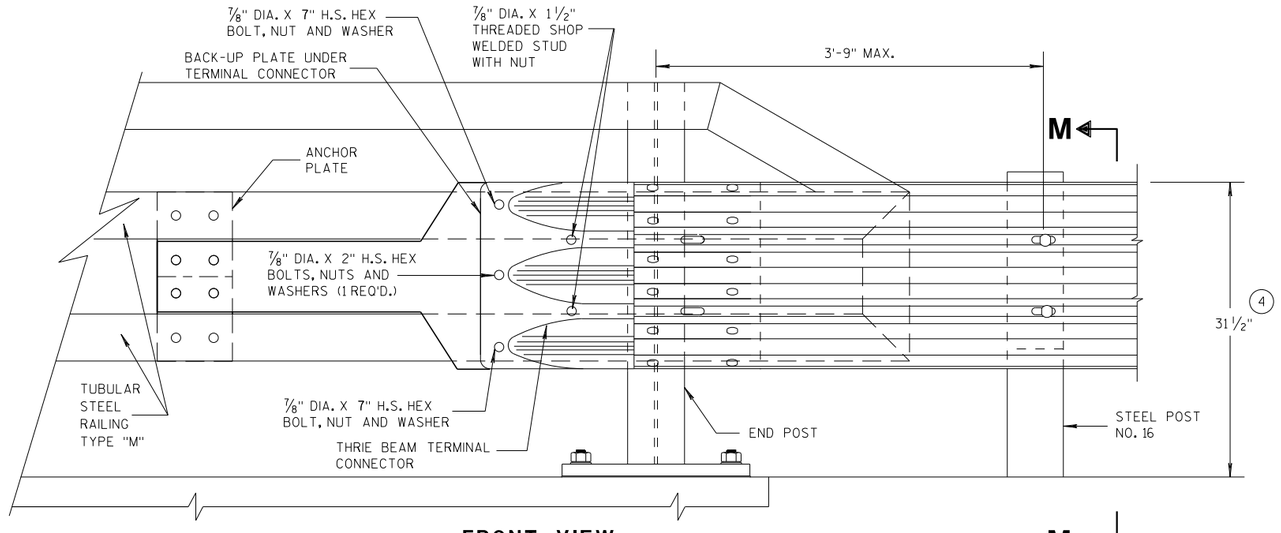


FRONT VIEW

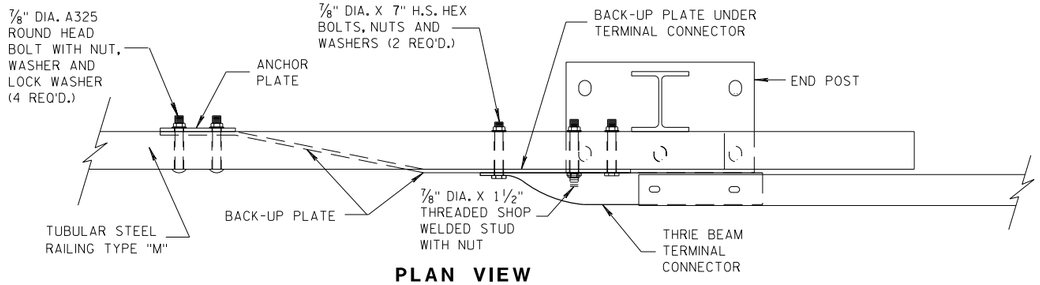
ANCHOR PLATE DETAIL, TYPE "M"



SECTION M-M



FRONT VIEW



PLAN VIEW

THRIE BEAM CONNECTION TO TUBULAR RAILING, TYPE "M"

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
07/2018 — DATE
/S/ Rodney Taylor — ROADWAY STANDARDS UNIT SUPERVISOR
FHWA

6

S.D.D. 14 B 45-5h

6

S.D.D. 14 B 45-5h

GENERAL NOTES

COVER PLATE PANELS ARE 3/16" THICK.

ALL STIFFENERS ARE 1/4" THICK.

CONNECTOR PLATE SHALL BE FABRICATED FROM ASTM GRADE A36 STEEL AND GALVANIZED.

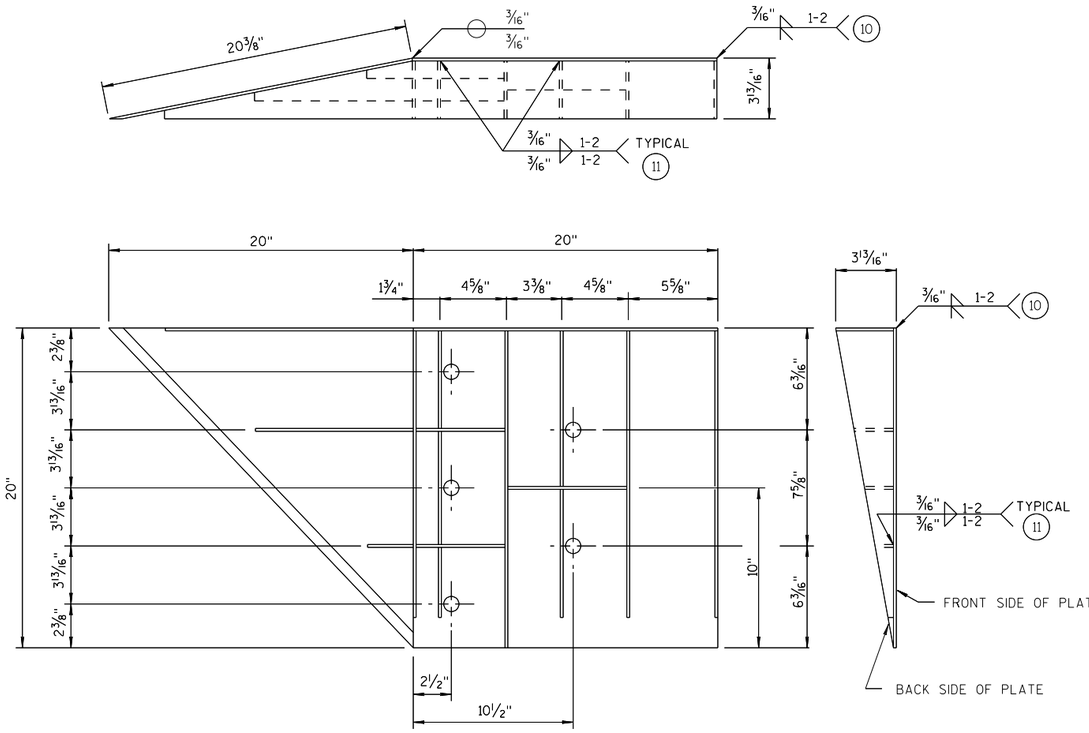
FOR GALVANIZED REQUIREMENTS, SEE SECTION 614 OF THE STANDARD SPECIFICATIONS.

ALL HOLE DIAMETERS SHALL BE 1".

FOR OPPOSITE SIDE INSTALLATION MIRROR DRAWINGS.

(10) STIFFENERS LOCATED AT THE OUTSIDE EDGES OF THE COVER PLATES SHALL BE WELDED AS FOLLOWS:
SINGLE BEVEL GROOVE WELD ON EXTERNAL SIDES AND 3/16" FILLET WELD BY 1" LONG SPACED AT 2" ON INTERNAL SIDES.

(11) STIFFENERS LOCATED ON THE INSIDE OF THE COVER PLATE SHALL BE WELDED AS FOLLOWS:
3/16" FILLET WELD BY 1" LONG SPACED AT 2".



WELDING INSTRUCTION

(VIEWED FROM BACK SIDE OF PLATE)

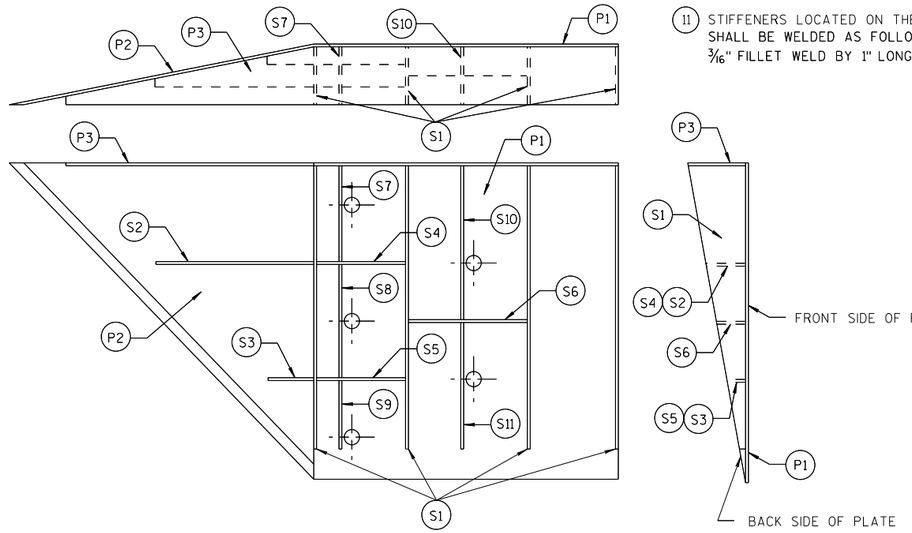


PLATE AND STIFFENER IDENTIFICATION

(VIEWED FROM BACK SIDE OF PLATE)

CONNECTOR PLATE DIMENSION (PER ASSEMBLY)

PLATE	QUANTITY	SHAPE	SIZE (A x B x C x D)	THICKNESS
P1	1		20" x 20"	3/16"
P2	1		20" x 20" x 28 9/16"	3/16"
P3	1		39" x 3 5/8" x 20" x 19 5/16"	3/16"
S1	4		18 7/16" x 3 5/8" x 18 3/4"	1/4"
S2	1		10 1/4" x 2 7/16" x 10 3/8" x 1/2"	1/4"
S3	1		3" x 1 1/16" x 3 1/8" x 1/2"	1/4"
S4	1		6 1/8" x 2 7/16"	1/4"
S5	1		6 1/8" x 1 1/16"	1/4"
S6	1		7 3/4" x 1 3/4"	1/4"
S7	1		2 9/16" x 6" x 3 5/8" x 5 7/8"	1/4"
S8	1		1 5/32" x 7 1/2" x 2 1/2" x 7 3/8"	1/4"
S9	1		6 1/16" x 6 3/16" x 1 3/32"	1/4"
S10	1		1 7/8" x 9 7/8" x 3 5/8" x 9 11/16"	1/4"
S11	1		8 1/2" x 8 3/4" x 1 13/16"	1/4"

SINGLE SLOPE CONNECTION PLATE

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

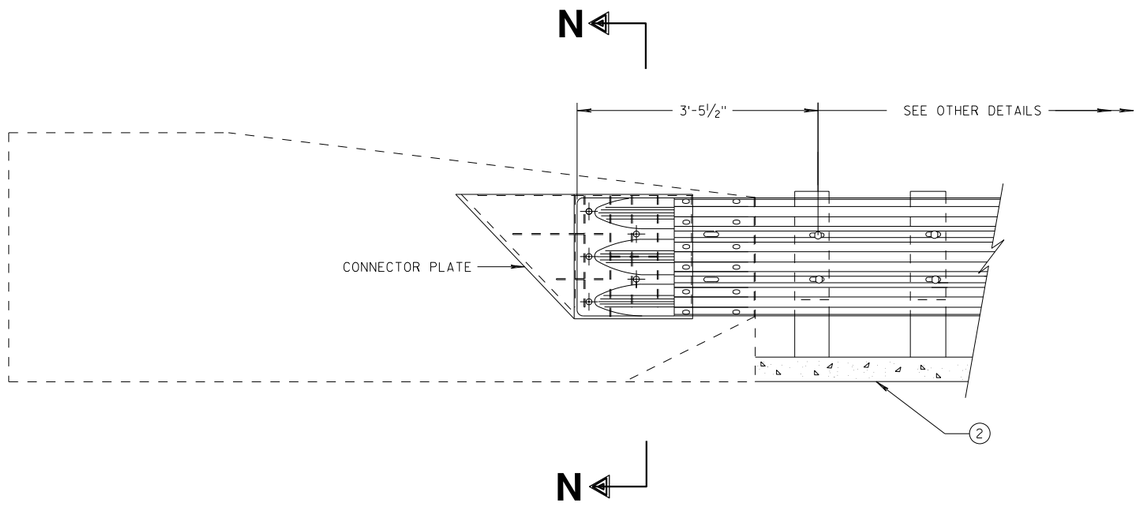
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
7/2018
DATE
FHWA

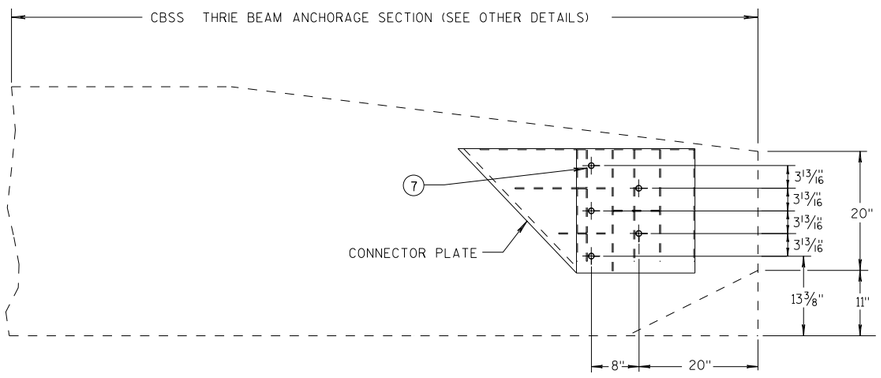
/S/ Rodney Taylor
ROADWAY STANDARDS I
UNIT SUPERVI ENT

6

S.D.D. 14 B 45-5i



THRIE BEAM CONNECTION TO SINGLE SLOPE BARRIER



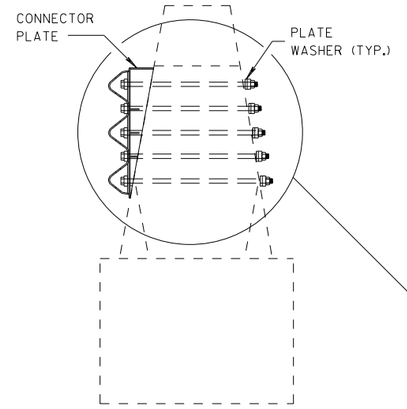
SINGLE SLOPE CONNECTION PLATE PLACEMENT

GENERAL NOTES

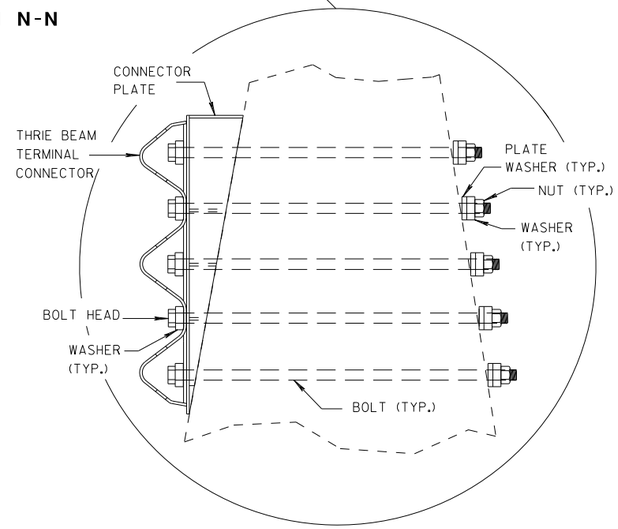
CONNECTOR PLATE, DRILLING BOLT HOLES THROUGH THE PARAPET, BOLTS, NUTS, WASHERS AND REPAIRING DAMAGED CONCRETE ARE INCIDENTAL TO THE CONTRACT.

(2) OPTIONAL CURB AND GUTTER OR DRAINAGE FEATURE SEE PLAN FOR INFORMATION.

(7) BOLTS MAY BE A325 BOLTS OR A449 BOLTS. BOLT LENGTH AND THREADING LENGTH ARE TO ALLOW FOR A TIGHT CONNECTION BETWEEN RIGID BARRIER AND THRIE BEAM CONNECTION PLATE. CONTRACTOR IS TO FIELD VERIFY BOLT LENGTH AND THREAD LENGTH. ONE ROUND WASHER REQUIRED BETWEEN BOLT HEAD AND THRIE BEAM CONNECTOR PLATE. BOLTS THAT EXTEND THROUGH THE PARAPET AND OUT THE BACK FACE REQUIRE A HARDENED ROUND STEEL WASHER THAT IS 2" O.D. X 5/32" THICK AND ONE PLATE WASHER. REPAIR ANY DAMAGED CONCRETE FROM BOLT INSTALLATION.



SECTION N-N



MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

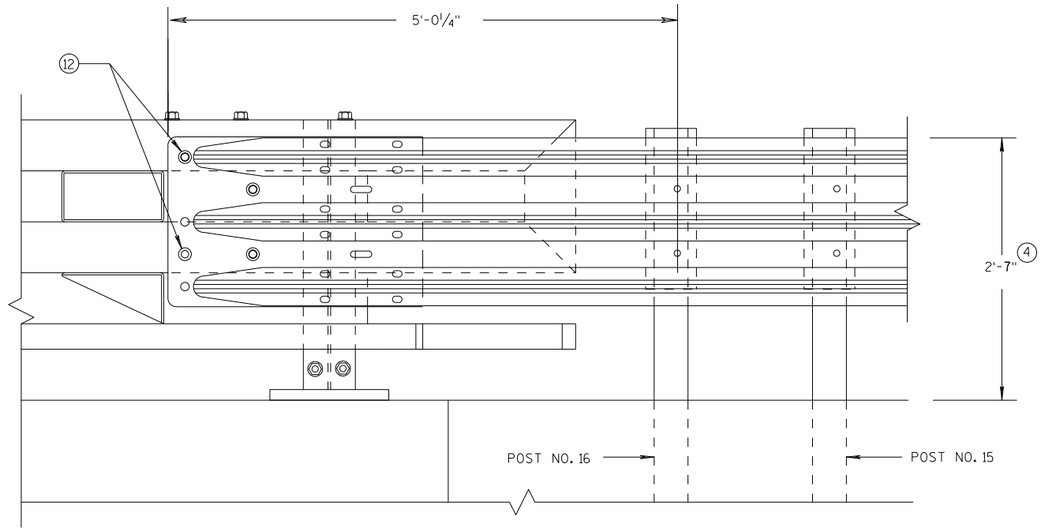
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
7/2018
DATE
FHWA

/S/ Rodney Taylor
ROADWAY STANDARDS DI
UNIT SUPERVIS

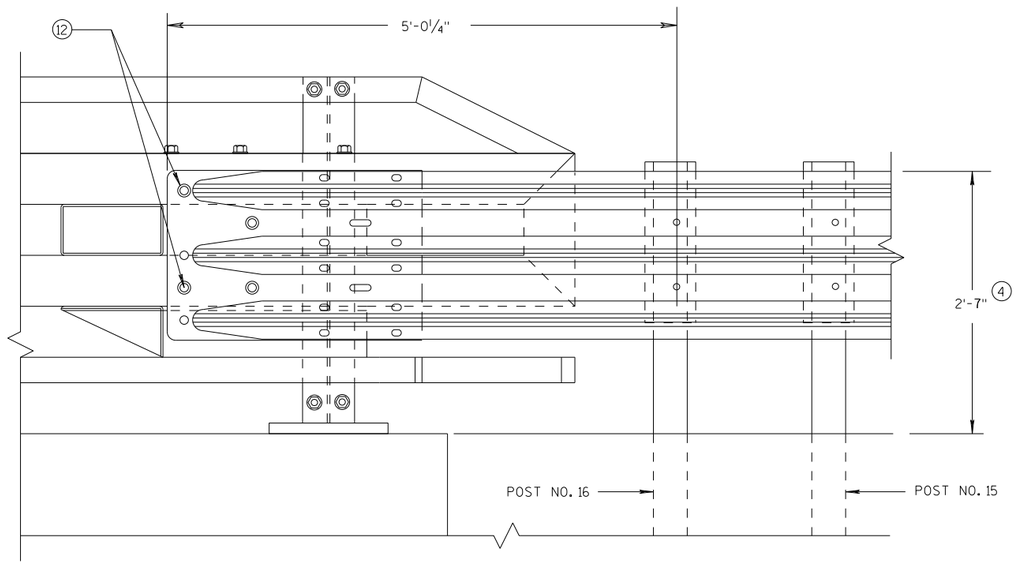
6

S.D.D. 14 B 45-5j



ELEVATION OF DETAIL AT NY3 END POST

THRIE BEAM RAIL ATTACHMENT



ELEVATION OF DETAIL AT NY4 END POST

THRIE BEAM RAIL ATTACHMENT

GENERAL NOTES

(4) TOLERANCE FOR TOP OF BEAM IS ± 1".

(12) BOLTS MAY BE A325 BOLTS OR A449 BOLTS. BOLT LENGTH AND THREADING LENGTH ARE TO ALLOW FOR A TIGHT CONNECTION BETWEEN RIGID BARRIER AND THRIE BEAM CONNECTION PLATE. CONTRACTOR IS TO FIELD VERIFY BOLT LENGTH AND THREAD LENGTH. ONE ROUND WASHER REQUIRED BETWEEN BOLT HEAD AND THRIE BEAM CONNECTOR PLATE. ON BACKSIDE OF PARAPET ONE ROUND WASHER, AND NUT REQUIRED. BOLT THREAD IS TO EXTEND 1/2-INCH BEYOND NUT.

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
7/2018
DATE
FHWA

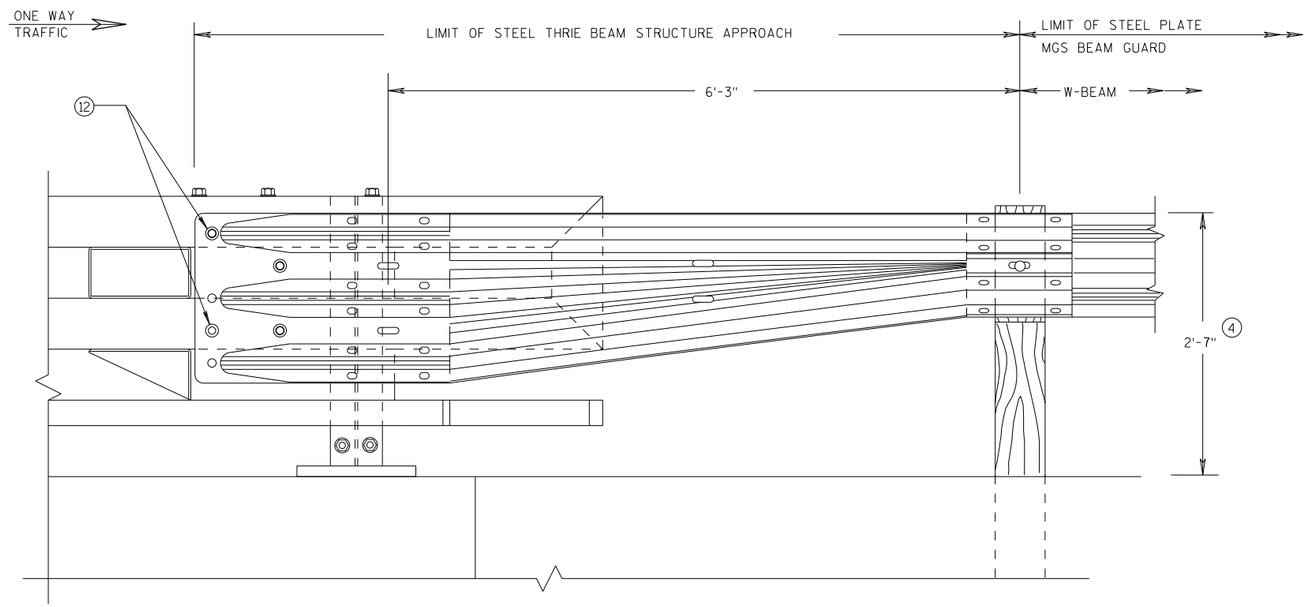
/S/ Rodney Taylor
ROADWAY STANDARDS D 350 NT
UNIT SUPERVIS

6

S.D.D. 14 B 45-5k

6

S.D.D. 14 B 45-5k



FRONT VIEW

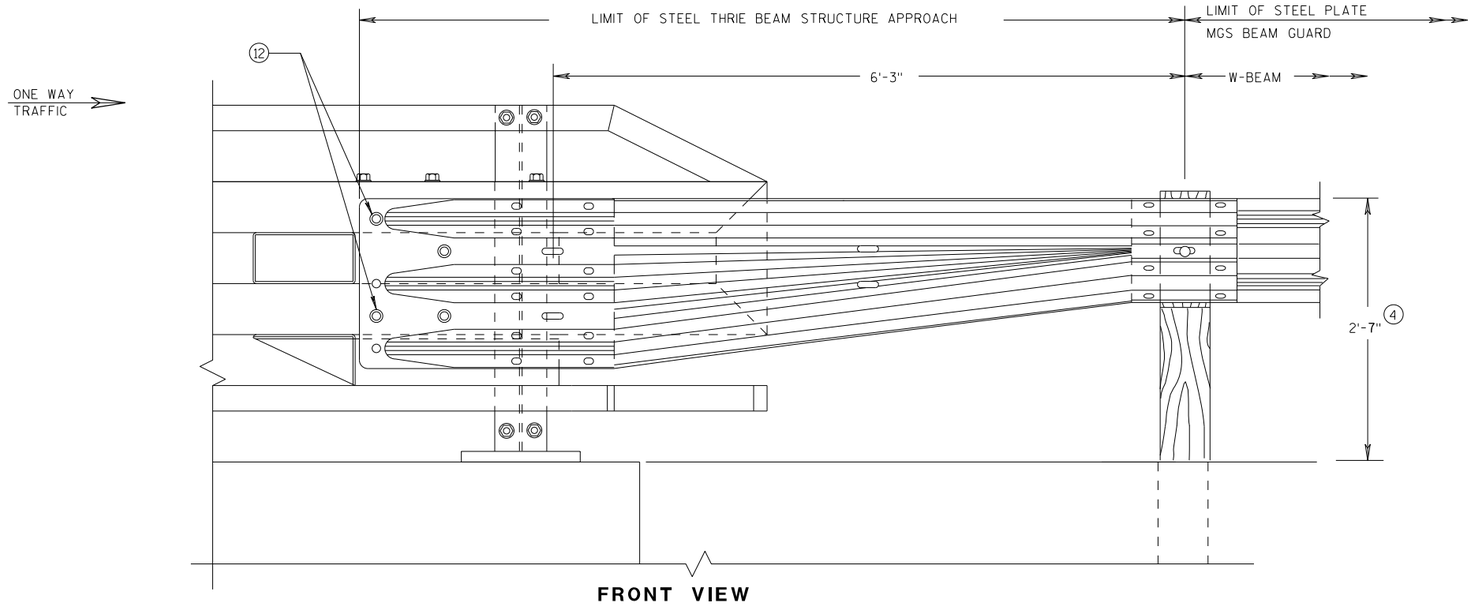
W BEAM TRANSITION AND CONNECTION TO BRIDGE RAILING TYPE "NY3"

(USE ONLY ON THE TRAFFIC EXIT END OF ONE WAY BRIDGES)

GENERAL NOTES

(4) TOLERANCE FOR TOP OF BEAM IS ± 1".

(12) BOLTS MAY BE A325 BOLTS OR A449 BOLTS. BOLT LENGTH AND THREADING LENGTH ARE TO ALLOW FOR A TIGHT CONNECTION BETWEEN RIGID BARRIER AND THRIE BEAM CONNECTION PLATE. CONTRACTOR IS TO FIELD VERIFY BOLT LENGTH AND THREAD LENGTH. ONE ROUND WASHER REQUIRED BETWEEN BOLT HEAD AND THRIE BEAM CONNECTOR PLATE. ON BACKSIDE OF PARAPET ONE ROUND WASHER, AND NUT REQUIRED. BOLT THREAD IS TO EXTEND 1/2-INCH BEYOND NUT.



FRONT VIEW

W BEAM TRANSITION AND CONNECTION TO BRIDGE RAILING TYPE "NY4"

(USE ONLY ON THE TRAFFIC EXIT END OF ONE WAY BRIDGES)

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
7/2018 DATE
FHWA

/S/ Rodney Taylor
ROADWAY STANDARDS D
UNIT SUPERVIS

351

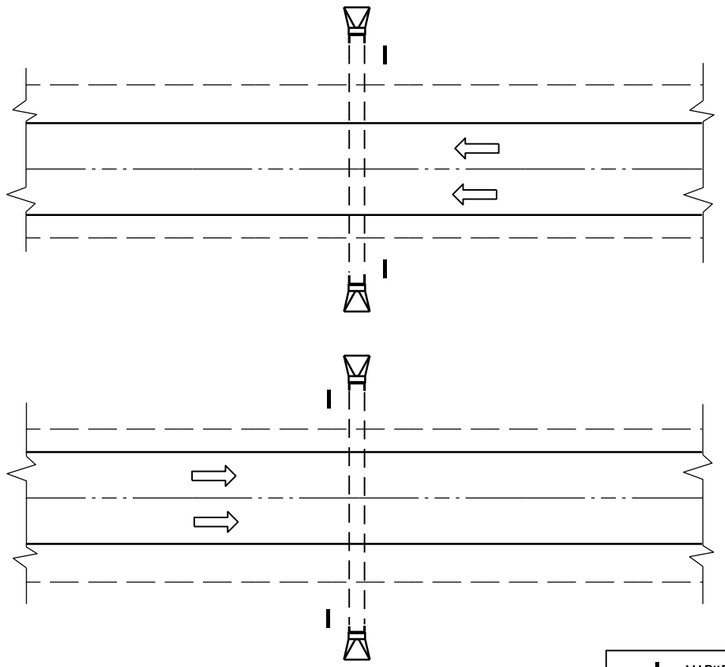
NT

6

S.D.D. 14 B 45-5L

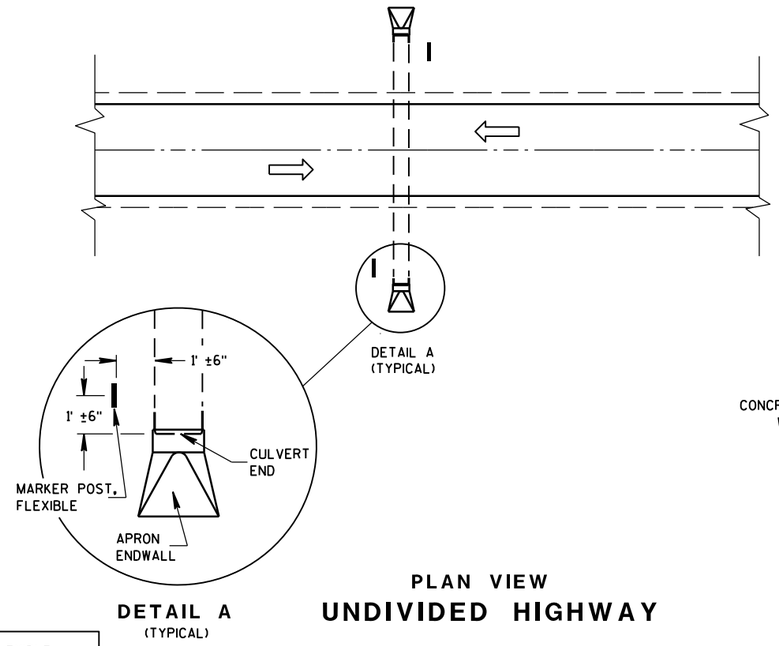
6

S.D.D. 14 B 45-5L



PLAN VIEW

DIVIDED HIGHWAY



DETAIL A
(TYPICAL)

PLAN VIEW

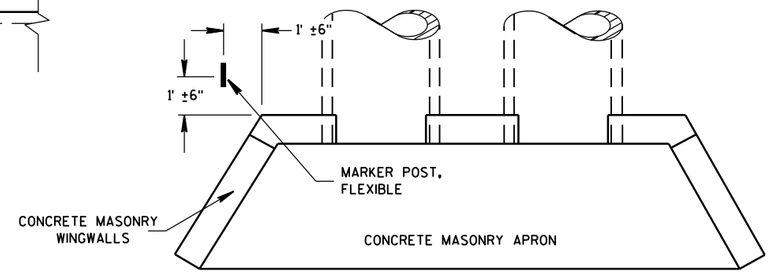
UNDIVIDED HIGHWAY

MARKER POST, FLEXIBLE

DIRECTION OF TRAFFIC FLOW

GENERAL NOTES

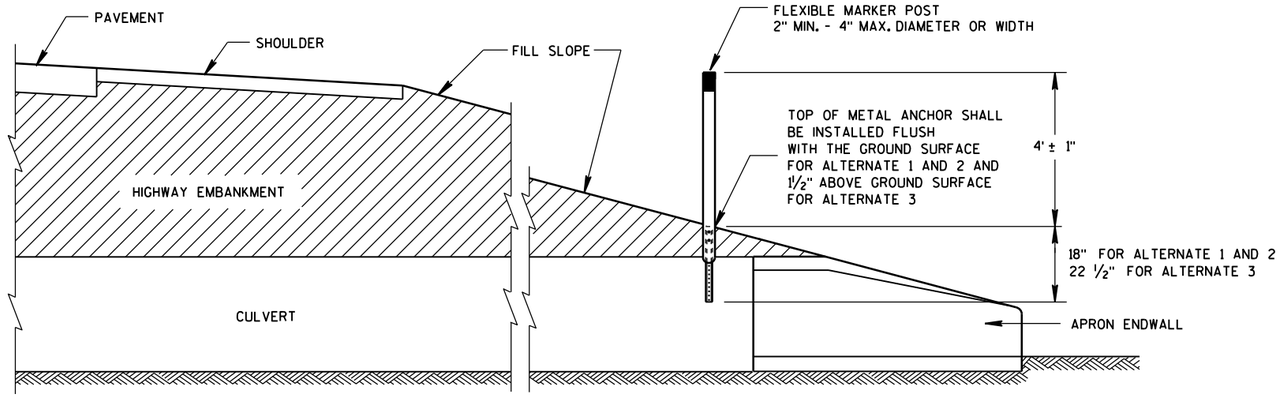
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.



PLAN VIEW

CONCRETE MASONRY ENDWALLS FOR CULVERT PIPE AND PIPE ARCH

FLEXIBLE MARKER POST LOCATION



CROSS SECTION

FLEXIBLE MARKER POST

FLEXIBLE MARKER POST FOR CULVERT END

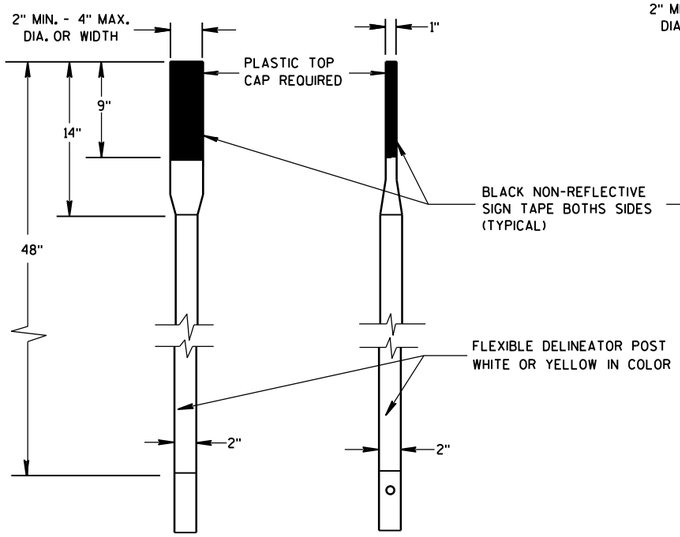
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

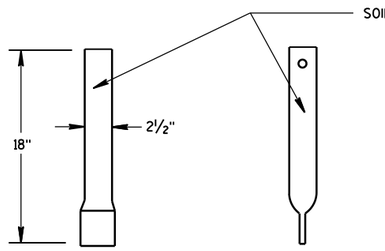
6

S.D.D. 15 A 3-2a

6

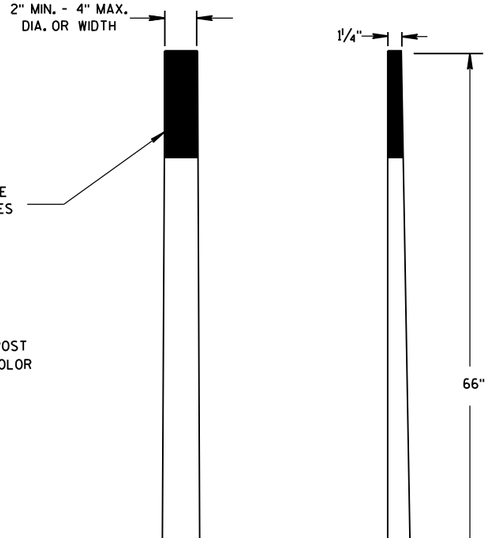
S.D.D. 15 A 3-2a





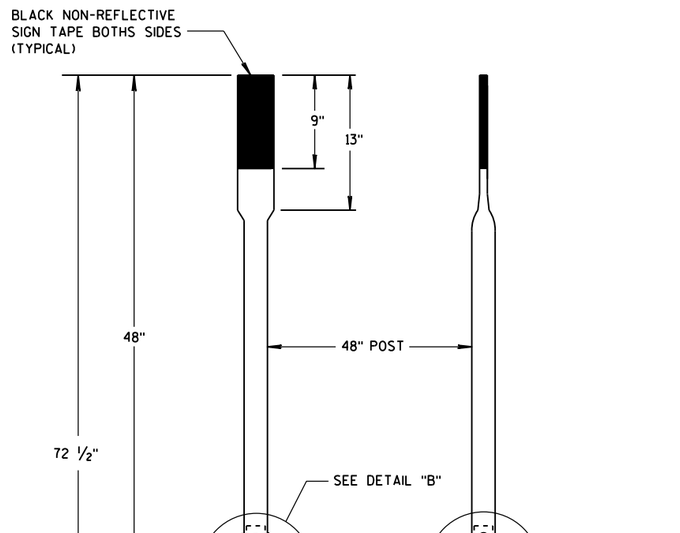
FRONT VIEW SIDE VIEW

ALTERNATE 1



FRONT VIEW SIDE VIEW

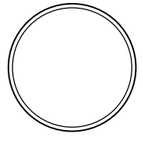
ALTERNATE 2



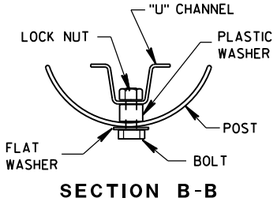
FRONT VIEW SIDE VIEW

ALTERNATE 3

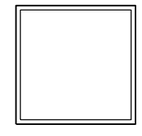
FLEXIBLE MARKER POSTS



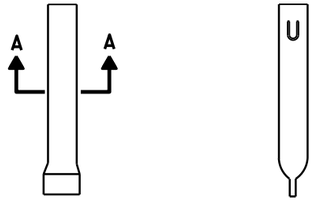
SECTION A-A



SECTION B-B

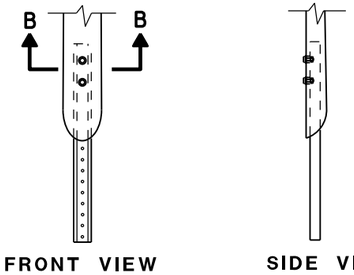


SECTION C-C



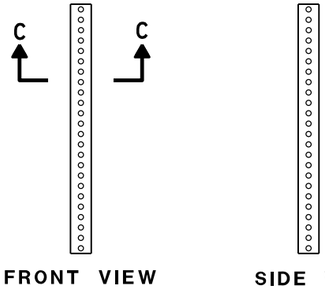
FRONT VIEW SIDE VIEW

ALTERNATE 1



FRONT VIEW SIDE VIEW

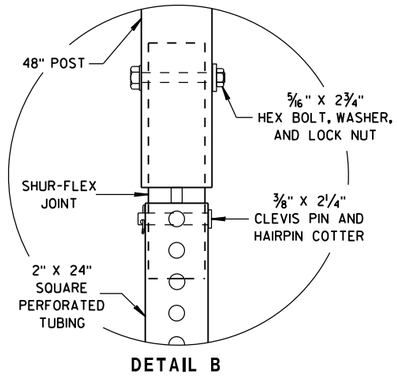
ALTERNATE 2



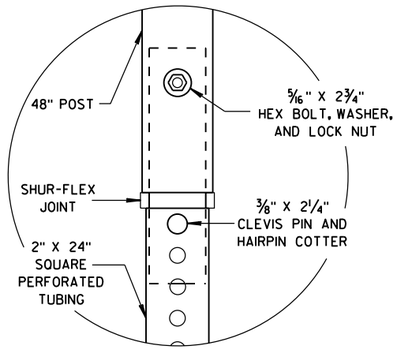
FRONT VIEW SIDE VIEW

ALTERNATE 3

FLEXIBLE MARKER POST ANCHORS



DETAIL B



DETAIL C

FLEXIBLE MARKER POST
FOR CULVERT END

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

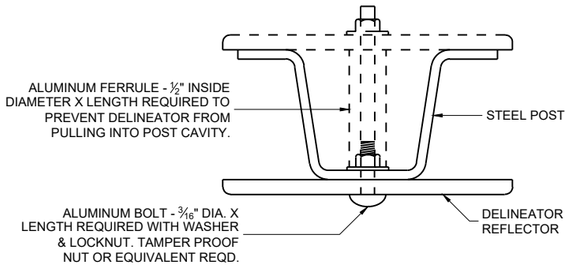
APPROVED
10/1/2012
DATE
/S/ Travis Feltes
STATE TRAFFIC ENGINEER
FHWA

6

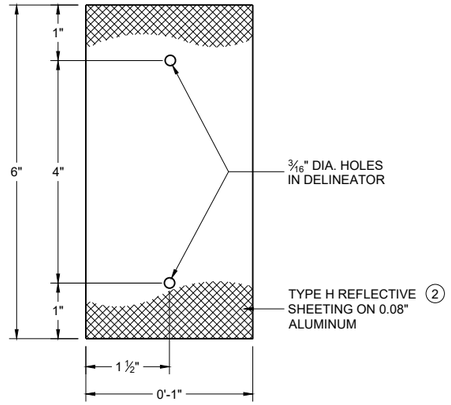
S.D.D. 15 A 3-2b

6

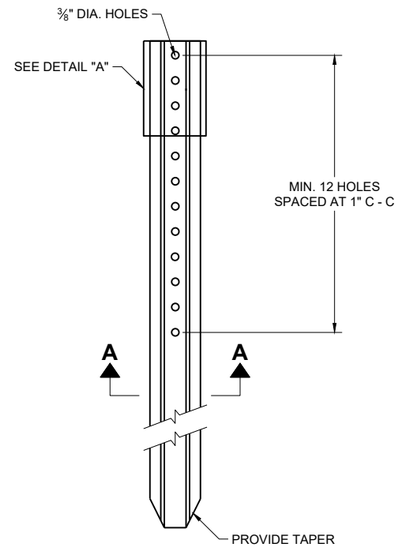
S.D.D. 15 A 3-2b



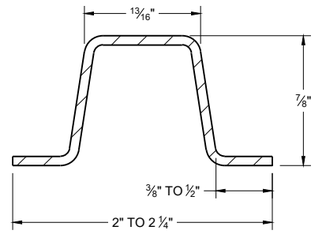
MOUNTING DETAIL FOR DELINEATOR REFLECTOR



DETAIL "A" 3" X 6" DELINEATOR REFLECTOR



DELINEATOR POST



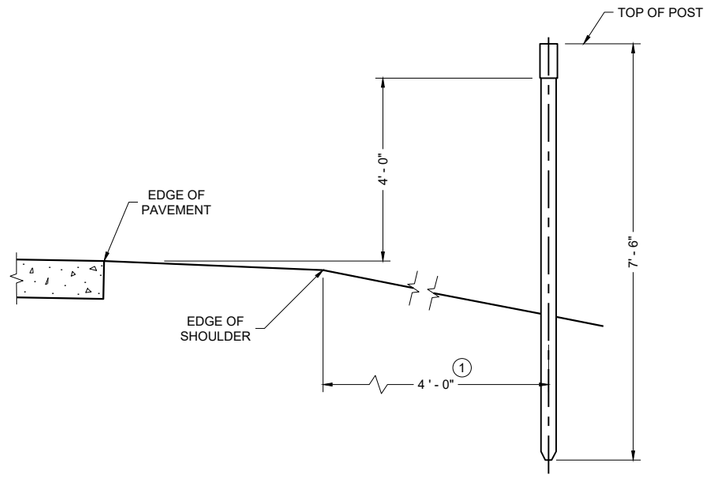
SECTION A - A

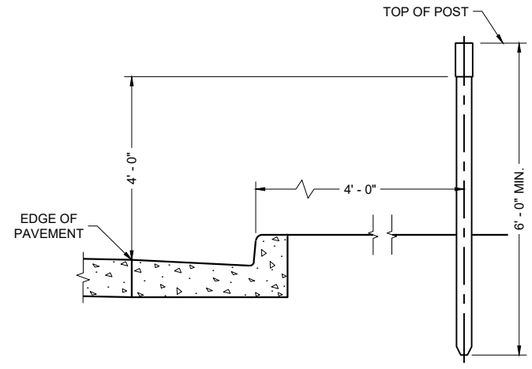
WEIGHT 1.12 LBS PER FT. \ 0.1 LB.

REFLECTOR SPACING TABLE

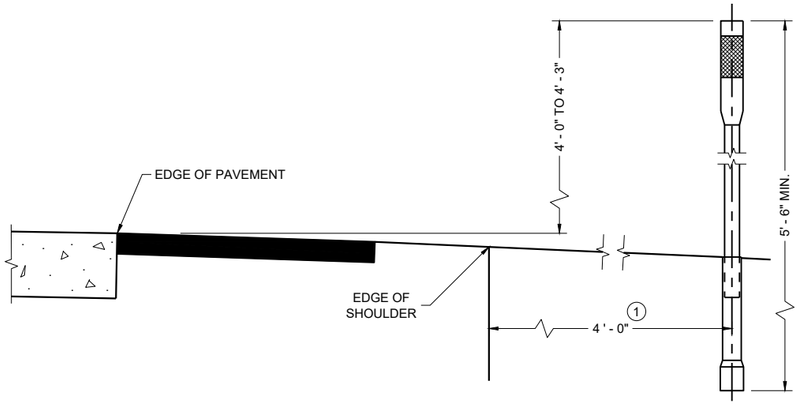
REFLECTOR SPACING	LOCATION
* 100' C-C	RAMPS
400' C-C	MAINLINE

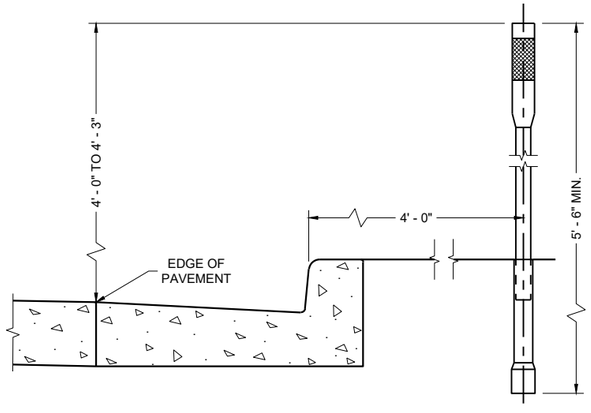
* START AT BEGINNING OF RAMP TAPER AND END AT END OF RAMP TAPER





TYPICAL INSTALLATIONS OF DELINEATOR POSTS





TYPICAL INSTALLATIONS OF FLEXIBLE DELINEATOR POSTS

GENERAL NOTES

DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF TEH STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

(1) DELINEATORS SHALL BE PLACED AT A CONSTANT DISTANCE FROM THE EDGE OF THE SHOULDER FOR THE LENGTH OF THE INSTALLATION.

(2) FURNISH TYPE H SHEETING FROM THE APPROVED PRODUCTS LIST.

DELINEATOR POST WITH REFLECTIVE SHEETING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
March 2024
DATE
/S/ Jeannie Silver
Statewide Pavement Marking Engineer

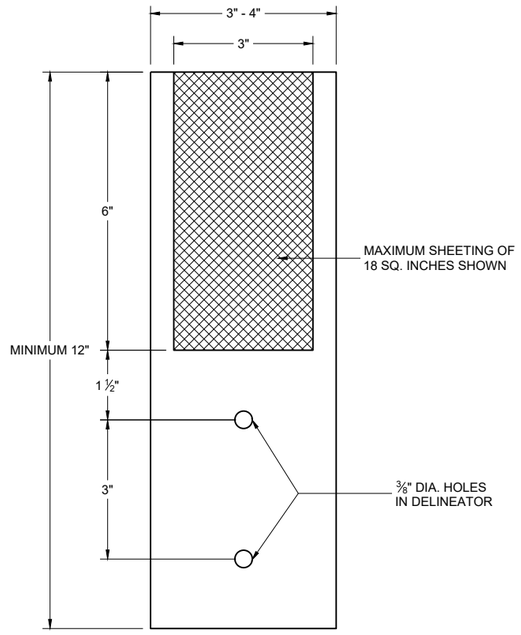
FHWA

6

SDD 15A04-08c

6

SDD 15A04-08c



4" x 12" DELINEATOR
WITH REFLECTIVE SHEETING

REFLECTOR SPACING TABLE

REFLECTOR SPACING	MINIMUM NUMBER OF REFLECTORS
100' C-C	3

DELINEATOR POST
WITH REFLECTIVE SHEETING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
March 2024
DATE

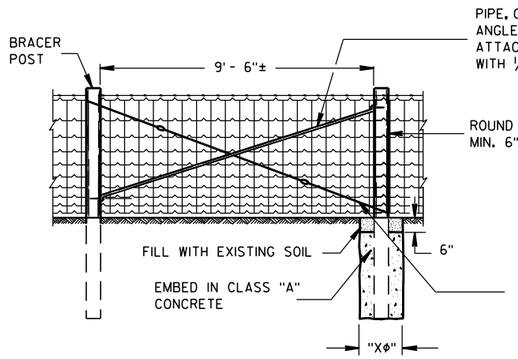
/S/ Jeannie Silver
Statewide Pavement Marking Engineer

FHWA

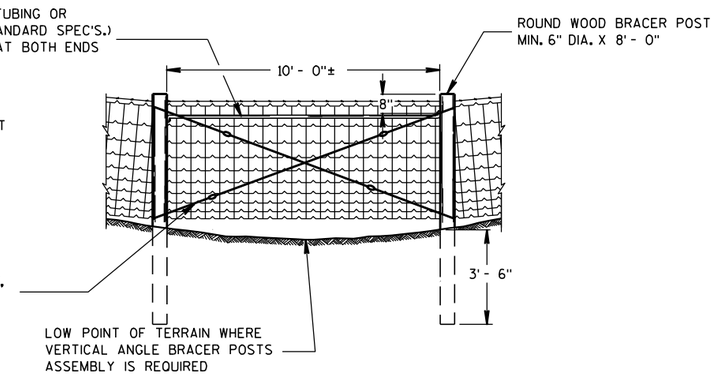
6
SDD 15A04-08e

NOTE: PULL OR STRETCHER POST ASSEMBLIES SHALL BE PLACED MIDWAY BETWEEN END POSTS AND CORNER POSTS WHERE A RUN OF FENCE EXCEEDS 660' BUT IS LESS THAN 1,320'. FOR RUNS OF FENCE IN EXCESS OF 1,320' MAXIMUM SPACING OF PULL OR STRETCHER POST ASSEMBLIES SHALL BE 660'± C-C.

ILLUSTRATION SHOWS POSITION OF STANDARD STEEL BRACE, DOUBLE STRAND GALVANIZED WIRE, AND THE POST TO BE EMBEDDED IN CONCRETE WHEN WIRE FENCE IS INSTALLED FROM LEFT TO RIGHT. THE BRACES SHALL BE POSITIONED ON THE OPPOSITE DIAGONALS AND THE OPPOSITE POST SHALL BE EMBEDDED IN CONCRETE WHEN WIRE FENCE IS INSTALLED FROM RIGHT TO LEFT.



PULL OR STRETCHER POSTS ASSEMBLY



VERTICAL ANGLE BRACER POSTS ASSEMBLY

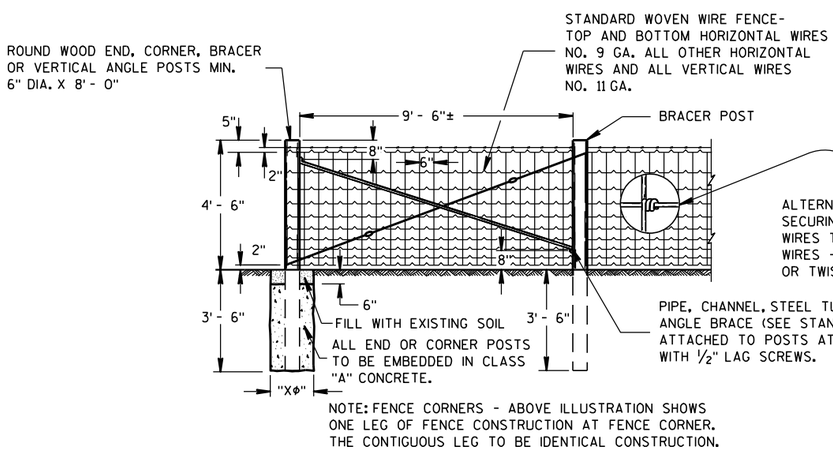
GENERAL NOTES

"XΦ" = DIAMETER OF THE POST PLUS 12".

FENCE STAPLES SHOULD NEVER BE DRIVEN VERTICALLY INTO WOOD POSTS (WITH BOTH LEGS PARALLEL WITH THE WOOD GRAIN). DOING SO CAN SEPARATE THE GRAIN AND SIGNIFICANTLY REDUCE THE HOLDING POWER. ROTATING THE STAPLES SLIGHTLY OFF VERTICAL STRADDLES THE GRAIN AND PROVIDES MORE RESISTANCE TO PULL-OUT.

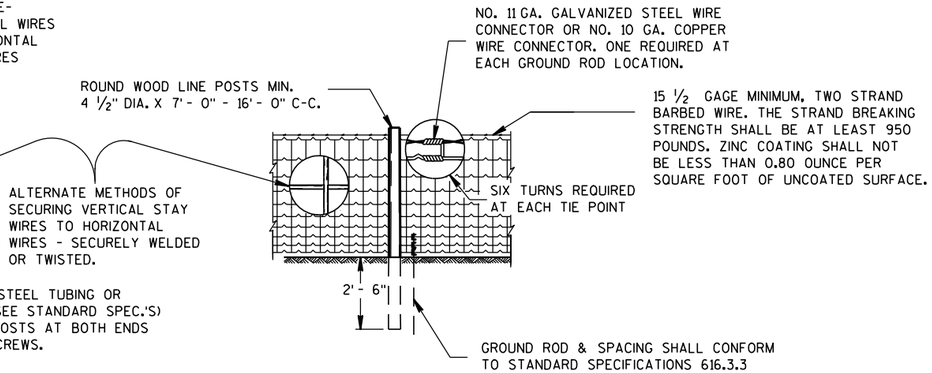
DO NOT STAPLE WIRE TIGHT TO THE LINE POSTS. ALLOW MOVEMENT OF WIRE FOR EXPANSION AND CONTRACTION. STAPLE ARRANGEMENT SHALL BE THE SAME FOR ALL OTHER POSTS EXCEPT THAT THEY SHALL BE DRIVEN TIGHT TO POSTS. ALL STAPLES SHALL BE 2" X 9 GAGE AND SHALL BE MANUFACTURED FROM GALVANIZED WIRE OR HOT DIP GALVANIZED AFTER FORMING. STAPLES SHALL HAVE SLASH-CUT POINTS.

FENCE SHALL BE LOCATED 3'-0" INSIDE THE RIGHT OF WAY LINE UNLESS OTHERWISE INDICATED ON THE PLANS.



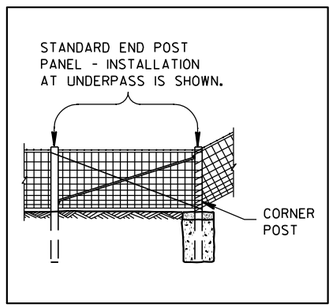
NOTE: FENCE CORNERS - ABOVE ILLUSTRATION SHOWS ONE LEG OF FENCE CONSTRUCTION AT FENCE CORNER. THE CONTIGUOUS LEG TO BE IDENTICAL CONSTRUCTION.

END OR CORNER POSTS ASSEMBLY

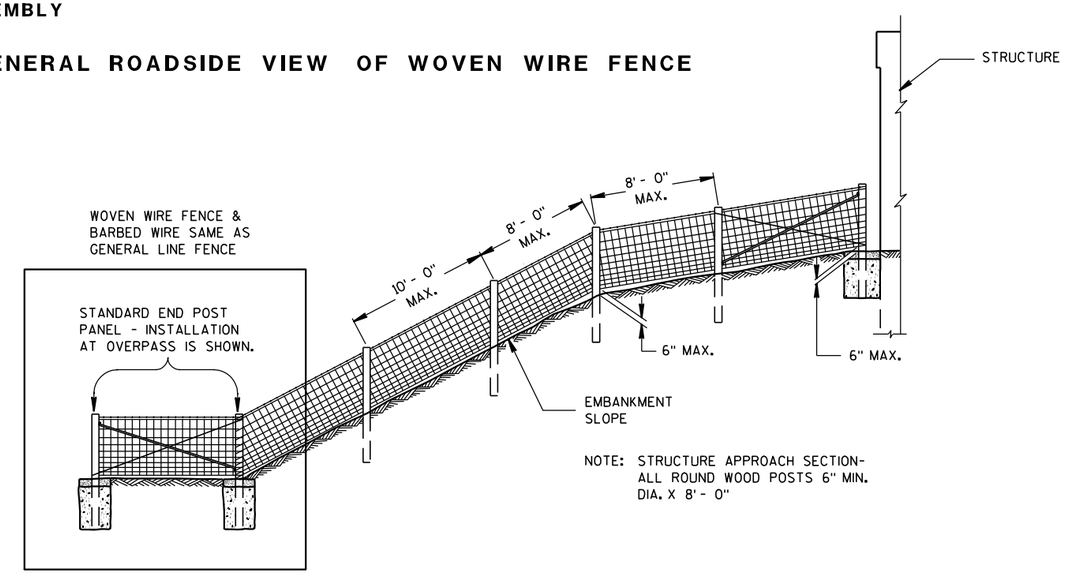


LINE FENCE CONSTRUCTION

GENERAL ROADSIDE VIEW OF WOVEN WIRE FENCE



ALTERNATE FENCE DESIGN AT STRUCTURE



NOTE: STRUCTURE APPROACH SECTION- ALL ROUND WOOD POSTS 6" MIN. DIA. X 8' - 0"

FENCE DESIGN AT STRUCTURE APPROACH

FENCE WOVEN WIRE

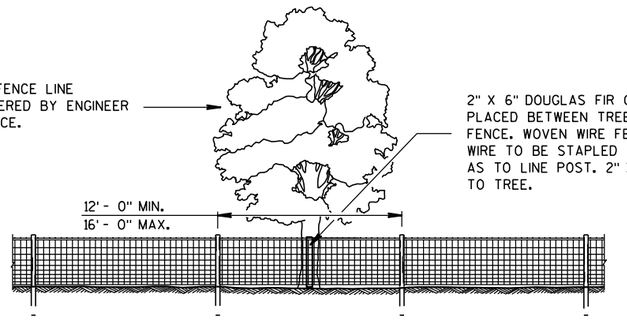
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

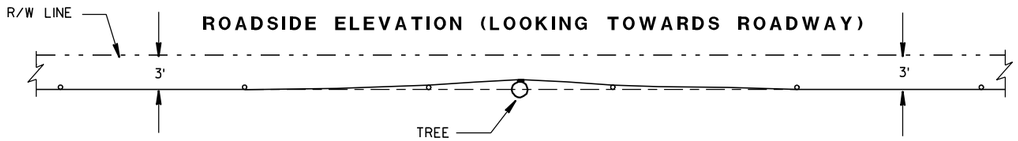
S.D.D. 15 B 1-8a

NOTE: TREE IN NORMAL FENCE LINE SPECIFICALLY ORDERED BY ENGINEER TO REMAIN IN PLACE.

2" X 6" DOUGLAS FIR OR SO. YELLOW PINE PLACED BETWEEN TREE AND WOVEN WIRE FENCE. WOVEN WIRE FENCE AND BARBED WIRE TO BE STAPLED TO 2" X 6" LIKE AS TO LINE POST. 2" X 6" NOT FASTENED TO TREE.

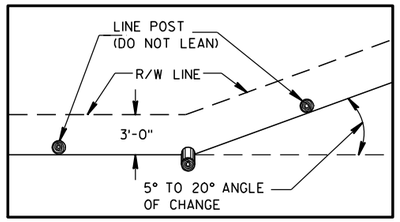


ROADSIDE ELEVATION (LOOKING TOWARDS ROADWAY)

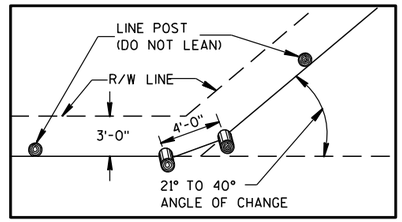


PLAN VIEW

FENCE DESIGN AT TREES REMAINING IN NORMAL FENCE LINE



PLAN VIEW
SINGLE POST CORNER

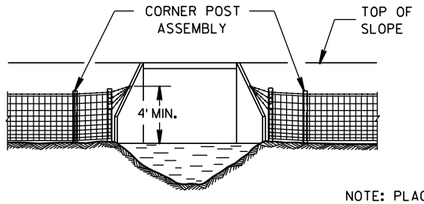


PLAN VIEW
DOUBLE POST CORNER

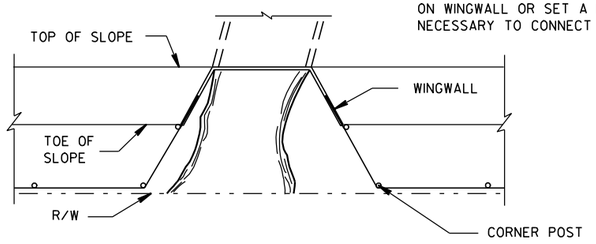
RIGHT OF WAY LINE CHANGE 40° AND LESS

NOTE: SINGLE AND DOUBLE POSTS SHALL BE A MIN. 6" DIA. X 8'-0" WITH A LEAN OF 4" TOWARD THE OUTSIDE OF THE CURVE.

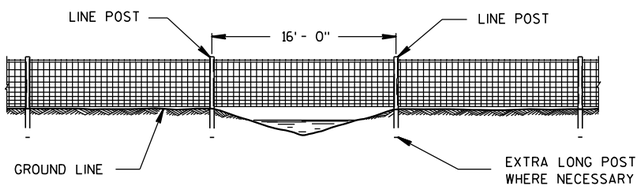
WHEN THE RIGHT OF WAY LINE CHANGE IS MORE THAN 40° USE THE CORNER OR STRETCHER POSTS ASSEMBLY.



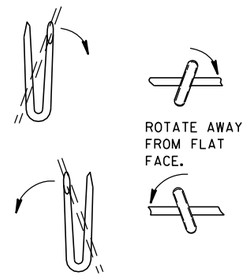
NOTE: PLACE A MINIMUM OF 4 STRANDS OF BARBED WIRE, 6" MAXIMUM CENTERS IN FAN SHAPE CONNECTED TO AN EYE BOLT ON WINGWALL OR SET A LONE POST WHEN NECESSARY TO CONNECT BARBED WIRE.



FENCE INSTALLATION TO WINGWALLS

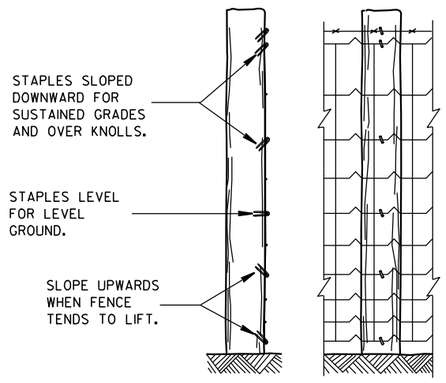


FENCE CONSTRUCTION OVER STREAM COURSES OF 15 FT. OR LESS IN WIDTH



LINE POST

NOTE: WHEN POSTS ARE DRIVEN THE SMALL END SHALL BE DOWN.

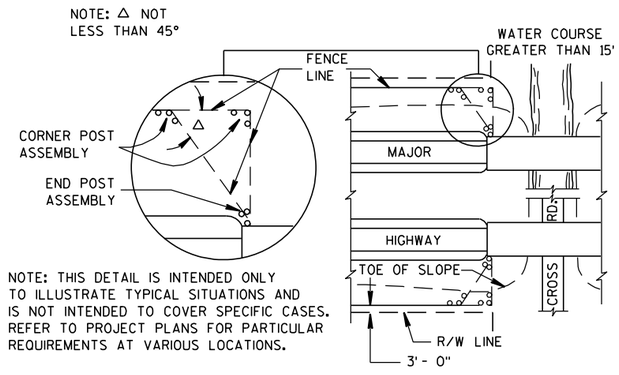


END ELEVATION

FARM SIDE ELEVATION

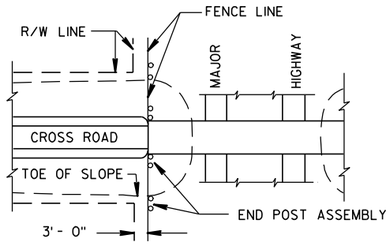
FENCE MOUNTING DETAIL

NOTE: △ NOT LESS THAN 45°



NOTE: THIS DETAIL IS INTENDED ONLY TO ILLUSTRATE TYPICAL SITUATIONS AND IS NOT INTENDED TO COVER SPECIFIC CASES. REFER TO PROJECT PLANS FOR PARTICULAR REQUIREMENTS AT VARIOUS LOCATIONS.

PLAN VIEW
MAJOR HIGHWAY OVERPASS OR STREAM COURSE CROSSING OF GREATER THAN 15 FT. IN WIDTH



PLAN VIEW
MAJOR HIGHWAY UNDERPASS

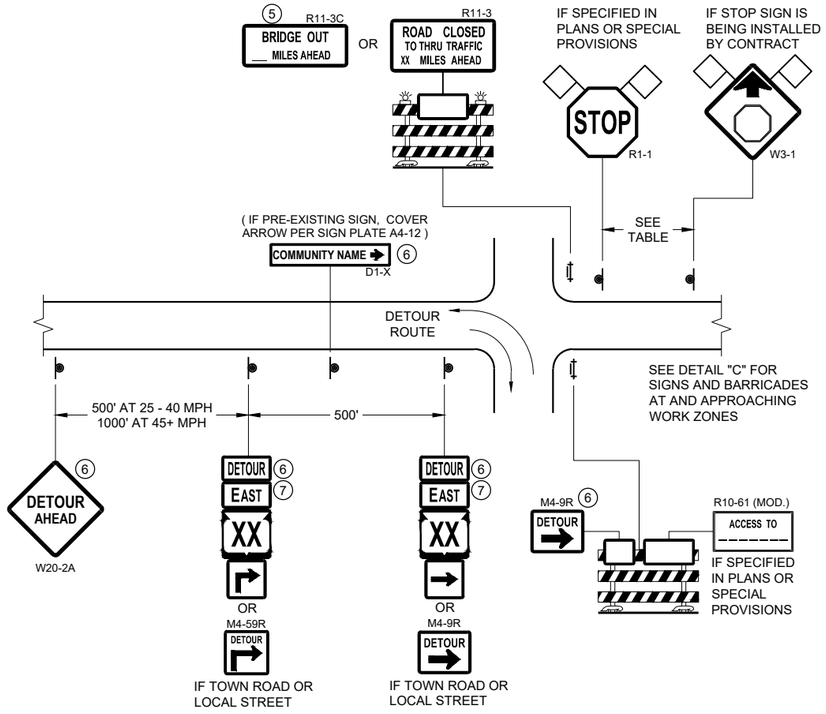
FENCE LOCATION AT STRUCTURES

FENCE WOVEN WIRE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

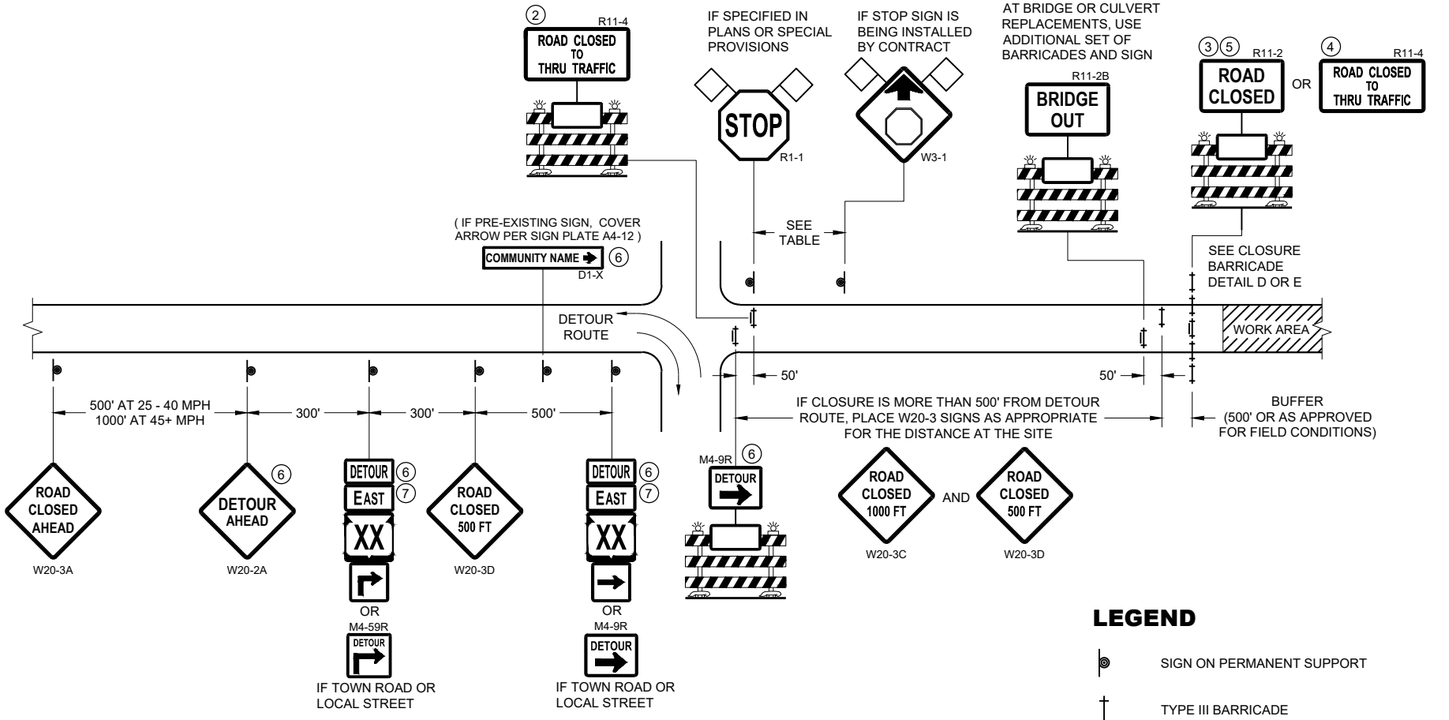
APPROVED
4/4/2008
DATE
/S/ Jerry H. Z---
ROADWAY STANDARDS [357
ENGINEER
ENT
FHWA

6
S.D.D. 15 B 1-8b



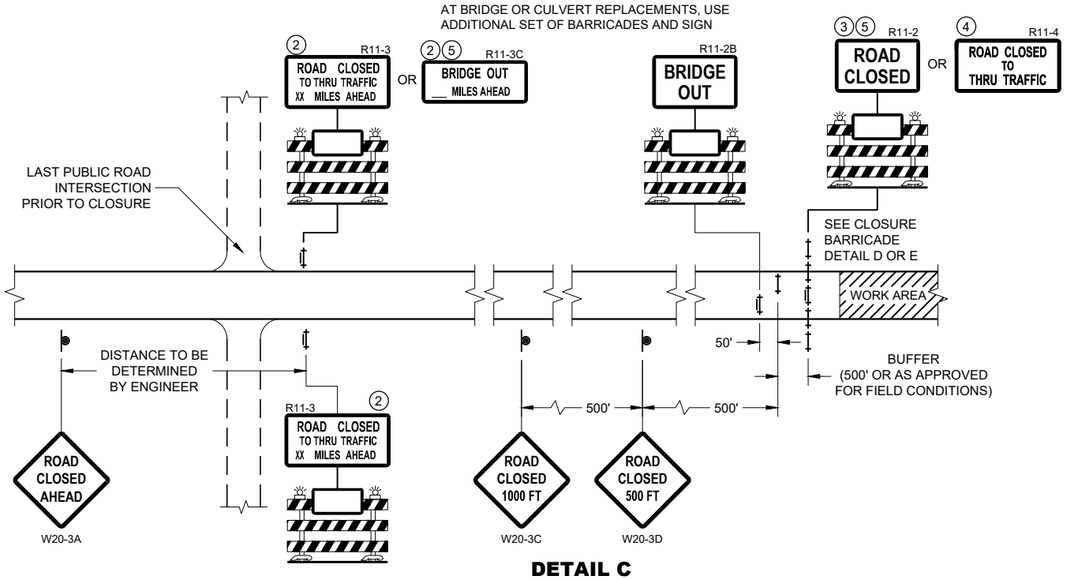
DETAIL A
MAINLINE CLOSURE WITH POSTED DETOUR

WORK ZONE GREATER THAN OR EQUAL TO ½ MILE FROM DETOUR ROUTE (1000 FEET IF URBAN)



DETAIL B
MAINLINE CLOSURE WITH POSTED DETOUR

WORK ZONE LESS THAN ½ MILE FROM DETOUR ROUTE (1000 FEET IF URBAN)



DETAIL C
MAINLINE CLOSURE, NO POSTED DETOUR

SPEED LIMIT (MPH)	"STOP AHEAD" ADVANCE WARNING DISTANCE (FT)
25	200
30	200
35	350
40	350
45	500
50	550
55	750

SEE SDD 15C2-SHEET "b"
FOR GENERAL NOTES
AND FOOTNOTES ① THROUGH ⑦

LEGEND

- SIGN ON PERMANENT SUPPORT
- TYPE III BARRICADE
- TYPE III BARRICADE WITH ATTACHED SIGN
- TYPE "A" WARNING LIGHT (FLASHING)
- WORK AREA
- FLAGS, 16" X 16" MIN. (ORANGE)
- DETOUR — M4 - 8
- EAST — M3 - X
- XX — M1 - 4 OR XX — M1 - 6 OR COUNTY X — M1 - 5A
- M05 - 1 OR M06 - 1

BARRICADES AND SIGNS FOR MAINLINE CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2023
DATE

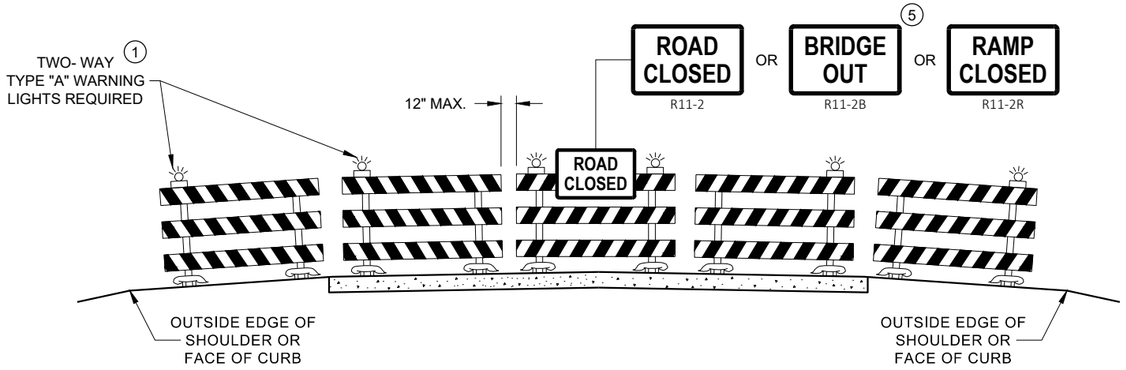
/S/ Andrew Heidtke
WORK ZONE ENGINEER

FHWA

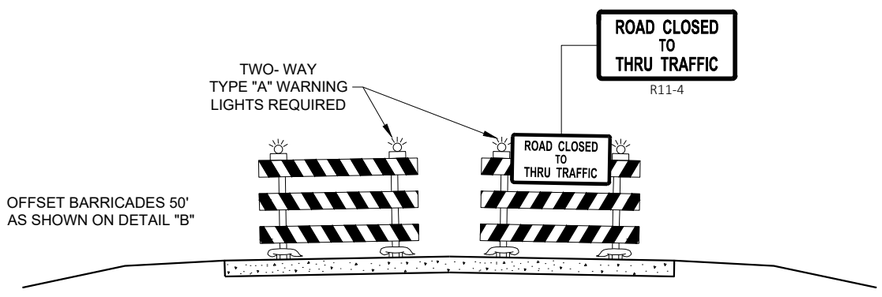
6

SDD 15C02 - 09a

SDD 15C02 - 09a



DETAIL D
ROAD CLOSURE BARRICADE DETAIL
APPROACH VIEW



DETAIL E
LANE CLOSURE BARRICADE DETAIL
APPROACH VIEW

SEE SDD 15C2 - SHEET "a" FOR LEGEND

GENERAL NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND BARRICADES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE", SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

BARRICADES THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY RE-ESTABLISHED UPON COMPLETION OF THE OPERATION, OR FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

ALL TYPE III BARRICADES SHALL HAVE RAILS REFLECTORIZED ON BOTH FACES. STRIPES SHALL BE PROPERLY SLOPED DOWN TOWARD THE TRAFFIC SIDE OR AS SHOWN IN THE ROAD CLOSURE BARRICADE DETAIL "D" FOR FULL ROAD CLOSURES.

TYPE "A" LOW - INTENSITY FLASHING WARNING LIGHTS SHALL BE VISIBLE ON BOTH SIDES OF THE BARRICADE.

THE R11 - 2, R11 - 3, M4 - 9, R11 - 4, AND R10 - 61 SIGNS PLACED ON THE BARRICADES SHALL COVER NO MORE THAN THE TOP RAIL. THE SIGNS SHALL NOT COVER ANY PORTION OF THE MIDDLE RAIL OR BOTTOM RAILS.

"WO" AND "MO" SIGNS ARE THE SAME AS "W" AND "M" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

ALL SIGNS SHALL BE 48" X 48" UNLESS OTHERWISE NOTED BELOW:
- R11 - 2 SHALL BE 48" X 30"
- R11 - 3 SHALL, R11 - 4 AND R10 - 61 SHALL BE 60 " X 30"
- M4 - 9 SHALL BE 30" X 24"
- M3 - X SHALL BE 24" X 12" (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS)
- M4 - 8 SHALL BE 24" X 12" (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS)
- M1 - 4, M1 - 5A AND M1 - 6 SHALL BE 24" X 24" (36" X 36" IF NEEDED TO MATCH EXISTING SIGNS)
- MO5 - 1 AND MO6 - 1 SHALL BE 21" X 21" (30" X 30" IF NEEDED TO MATCH EXISTING SIGNS)
- D1 - X SHALL BE AS SHOWN ON SPECIFIC PROJECT SIGNING DETAIL SHEETS.
- R1 - 1 SHALL BE 36" X 36"

(1) TWO WARNING LIGHTS SHALL BE PROVIDED ON THE CENTER BARRICADE AND A MINIMUM OF ONE WARNING LIGHT SHALL BE PROVIDED ON EACH OF THE OTHER BARRICADES WITHIN THE ROADWAY LIMITS. SPACING OF THE WARNING LIGHTS SHALL BE UNIFORM TO THE EDGE OF ROADWAY AS SHOWN (APPROX. 8 FOOT LIGHT SPACING.

(2) THESE SIGNS AND BARRICADES ARE NOT REQUIRED IF ROAD CLOSURE BEGINS AT AN INTERSECTION.

(3) FOR ROAD CLOSURE WITHOUT LOCAL ACCESS TO PROJECT, SEE ROAD CLOSURE BARRICADE DETAIL "D".

(4) FOR ROAD CLOSURE WITH LOCAL ACCESS TO PROJECT, SEE ROAD CLOSURE BARRICADE DETAIL "E".

(5) FOR BRIDGE OR CULVERT REPLACEMENTS, SUBSTITUTE "BRIDGE OUT" INSTEAD OF "ROAD CLOSED" ON R11 - 2 AND R11 - 3 SIGNS.

(6) INSTALL DETOUR AND COMMUNITY GUIDE SIGNS AND ARROWS ONLY IF SPECIFIED IN THE CONTRACT. IF THERE ARE EXISTING ROUTE MARKER ASSEMBLIES THAT WILL REMAIN IN PLACE, ADJUST THE LOCATION OF THE DETOUR ROUTE SIGNS TO CORRESPOND WITH THE EXISTING ASSEMBLIES. MODIFY EXISTING SIGNS WHERE POSSIBLE. SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS. IF DETOUR SIGNS ARE BEING INSTALLED BY OTHERS, PLACE THE CONTRACTED TRAFFIC CONTROL SIGNS TO ALLOW FOR PLACEMENT OF ALL WARNING, DETOUR AND GUIDE SIGNS AS SHOWN.

(7) "EAST" CARDINAL DIRECTION MARKERS AND RIGHT TURN ARROWS ARE SHOWN. USE OTHER CARDINAL DIRECTIONS AND ARROWS AS APPROPRIATE.

BARRICADES AND SIGNS FOR VARIOUS CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2023
DATE
/S/ Andrew Heidtke
WORK ZONE ENGINEE
FHWA

6

SDD 15C02 - 09b

6

SDD 15C02 - 09b

THIS DRAWING PROVIDES GENERAL GUIDANCE ON TYPICAL DETOUR SIGN LAYOUT AND SPACING. SEE PROJECT DETOUR SIGNING SHEETS FOR SPECIFIC DETAILS FOR EACH PROJECT.

LEGEND

- SIGN ON PERMANENT SUPPORT
- WORK AREA
- DETOUR — M4 - 8
- EAST — M3 - X
- XX — M1 - 4 OR XX — M1 - 6 OR COUNTY X — M1 - 5A
- M05 - 1 OR M06 - 1 OR M06 - 1

GENERAL NOTES

THE EXACT NUMBER, LOCATION AND SPACING OF ALL SIGNS SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

IF THERE ARE EXISTING ROUTE MARKER ASSEMBLIES THAT WILL REMAIN IN PLACE, ADJUST THE LOCATION OF THE DETOUR ROUTE SIGNS TO CORRESPOND WITH THE EXISTING ASSEMBLIES. SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS. MODIFY EXISTING SIGNS WHERE POSSIBLE.

THE SPACING BETWEEN TRAFFIC CONTROL AND DETOUR SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

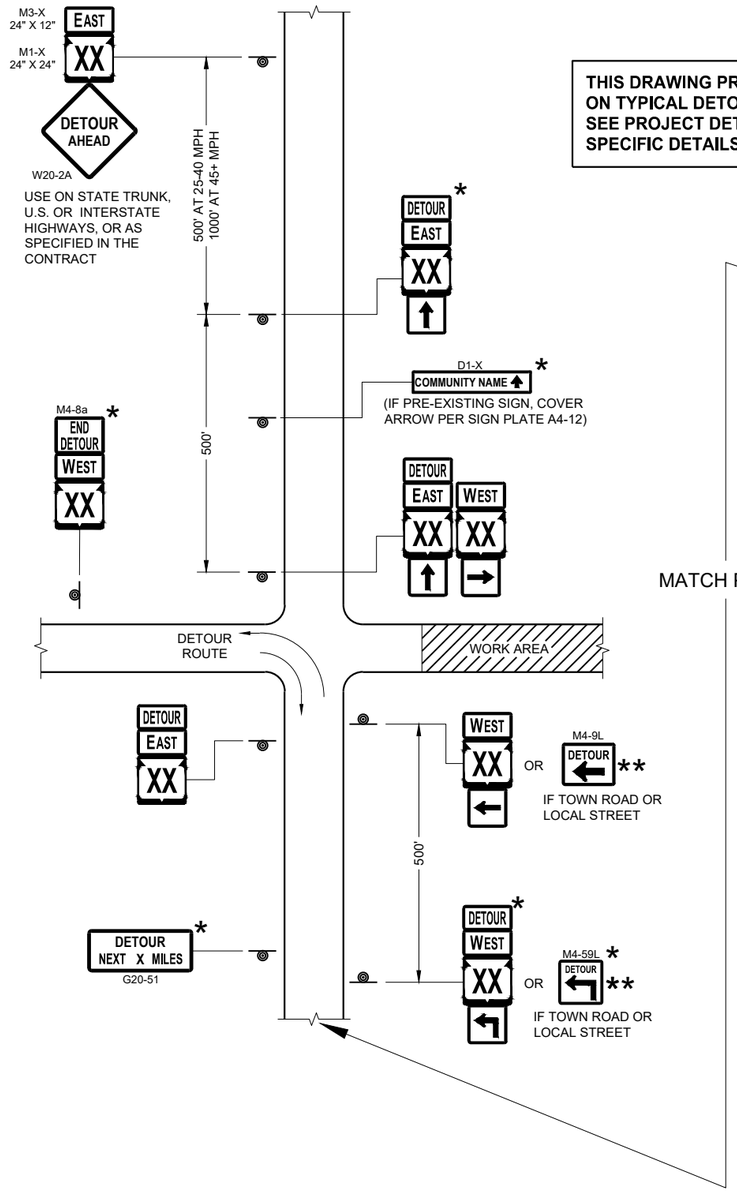
"MO" SIGNS ARE THE SAME AS "M" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

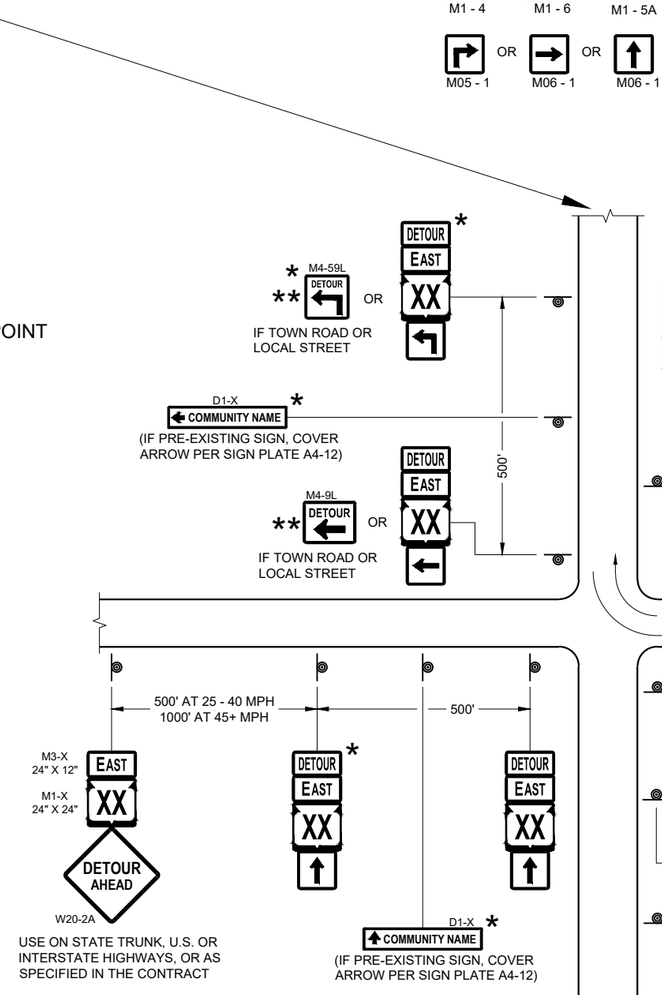
SIGN SIZES SHALL BE AS FOLLOWS:

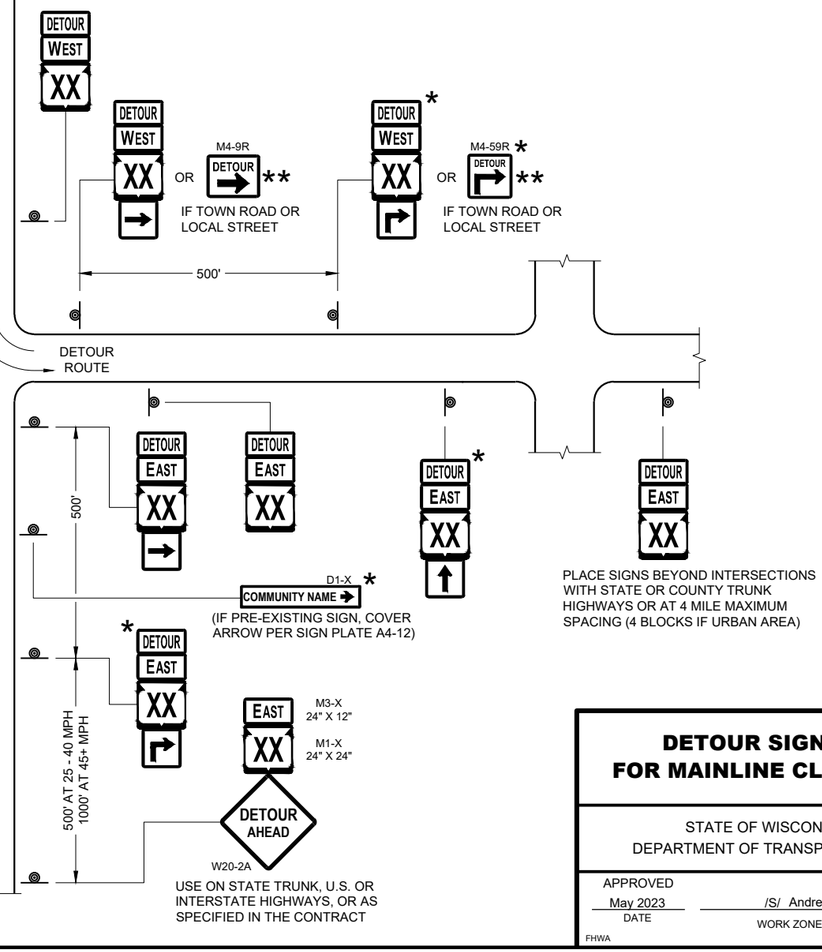
- M3-X SHALL BE 24" X 12" (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS)
- M4-8 SHALL BE 24" X 12" (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS)
- M1-4, M1-5A AND M1-6 SHALL BE 24" X 24" (36" X 36" IF NEEDED TO MATCH EXISTING SIGNS)
- M05-1 AND M06-1 SHALL BE 21" X 21" (30" X 30" IF NEEDED TO MATCH EXISTING SIGNS)
- M4-9 AND M4-59 SHALL BE 30" X 24"
- M4-8a SHALL BE 24" X 18"
- G20-51 SHALL BE 60" X 24"
- W20-2A SHALL BE 48" X 48"
- D1-X SHALL BE AS SHOWN ON SPECIFIC PROJECT SIGNING DETAIL SHEETS.

* OPTIONAL SIGNS. SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS.

** FOR A TOWN ROAD OR LOCAL STREET DETOURED ONTO A STATE TRUNK HIGHWAY, PLACE A ROAD NAME PLAQUE ABOVE THE M4-9 SIGN AS SPECIFIED IN THE CONTRACT







SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS AND DETAIL A OR B ON SDD SHEET 15C02 - SHEET "a"

DETAIL F
DETOUR SIGNING

DETOUR SIGNING FOR MAINLINE CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

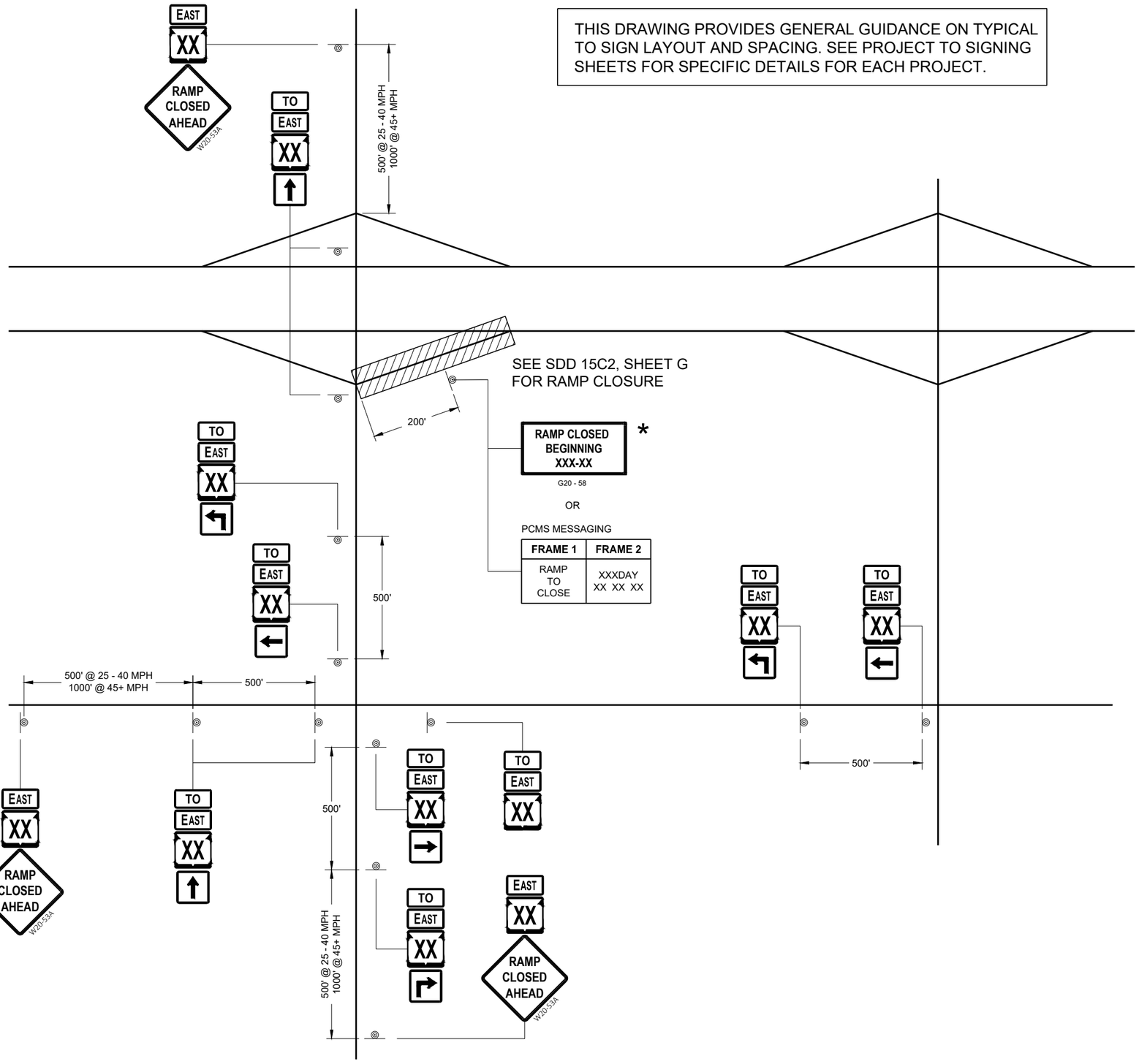
APPROVED
May 2023
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEER

360

FHWA

6
SDD 15C02 - 09c



THIS DRAWING PROVIDES GENERAL GUIDANCE ON TYPICAL TO SIGN LAYOUT AND SPACING. SEE PROJECT TO SIGNING SHEETS FOR SPECIFIC DETAILS FOR EACH PROJECT.

LEGEND

SIGN ON PERMANENT SUPPORT

TO EAST — MO4 - 5, M3 - X

XX M1 - 6 OR XX M1 - 4 OR INTERSTATE XX M1 - 1

M05 - 1 OR M06 - 1 OR M06 - 1

GENERAL NOTES

THE EXACT NUMBER, LOCATION AND SPACING OF ALL SIGNS SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

IF THERE ARE ANY ROUTE MARKER ASSEMBLIES THAT WILL REMAIN IN PLACE, ADJUST THE LOCATION OF THE TO ROUTE SIGNS TO CORRESPOND WITH THE EXISTING ASSEMBLIES. SEE SPECIFIC PROJECT TO SIGNING DETAIL SHEETS. MODIFY EXISTING SIGNS WHERE POSSIBLE.

THE SPACING BETWEEN TRAFFIC CONTROL AND TO SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL " IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

SIGNS THAT SHALL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

"MO" SIGNS ARE THE SAME AS "M" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

SIGN SIZES SHALL BE AS FOLLOW:
- M3 - X SHALL BE 24" X 12". (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS).
- MO4 - 5 SHALL BE 24" X 12". (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS).
- M1 - 1, M1 - 4, AND M1 - 6 SHALL BE 24" X 24" (36" X 36" IF NEEDED TO MATCH EXISTING SIGNS).
- MO5 - 1, MO5 - 2, AND MO6 - 1, SHALL BE 21" X 21". (30" X 30" IF NEEDED TO MATCH EXISTING SIGNS).
- W20 - 53A SHALL BE 48" X 48"

* PLACE "RAMP CLOSED BEGINNING" SIGN 7 CALENDAR DAYS PRIOR TO CLOSURE OR AS DIRECTED BY THE ENGINEER. SEE WISCONSIN STANDARD SIGN PLATES FOR LAYOUT.

ON RAMP LANE CLOSURE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2023 — DATE
/S/ Andrew Heidtke — WORK ZONE ENGINEER

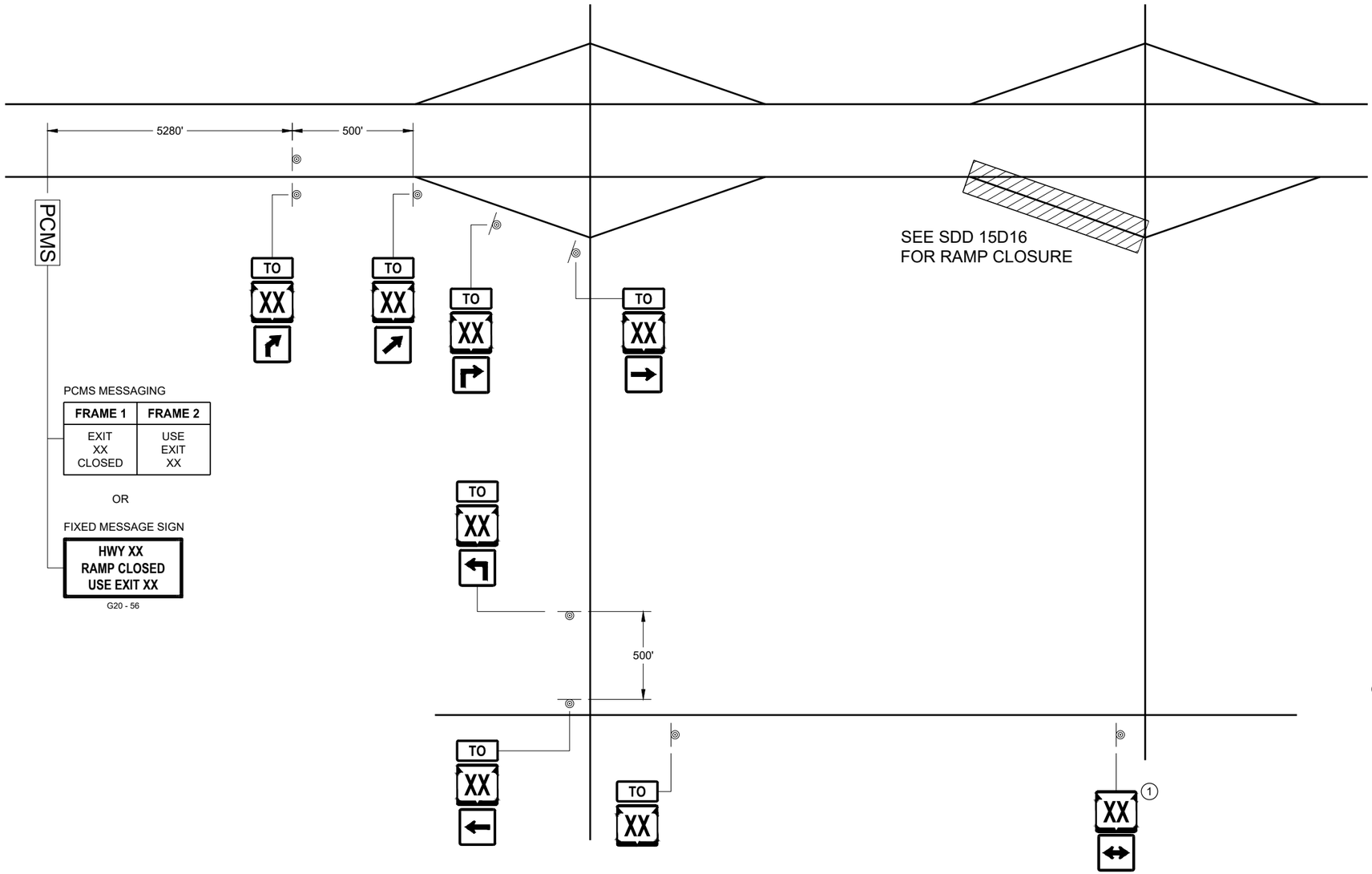
FHWA

6

SDD 15C02 - 09d

SDD 15C02 - 09d

THIS DRAWING PROVIDES GENERAL GUIDANCE ON TYPICAL "TO" MO-4 SIGN LAYOUT AND SPACING. SEE PROJECT TO SIGNING SHEETS FOR SPECIFIC DETAILS FOR EACH PROJECT.



PCMS MESSAGING

FRAME 1	FRAME 2
EXIT XX CLOSED	USE EXIT XX

OR

FIXED MESSAGE SIGN

HWY XX
RAMP CLOSED
USE EXIT XX

G20 - 56

LEGEND

SIGN ON PERMANENT SUPPORT

PCMS PORTABLE CHANGEABLE MESSAGE SIGN

TO MO4 - 5

XX M1 - 4 OR XX M1 - 6 OR COUNTY X M1 - 5A

M05 - 1 OR M05 - 2 OR M06 - 1 OR M06 - 2 OR M06 - 4

GENERAL NOTES

SEE SDD 15D16 "TRAFFIC CONTROL, EXIT RAMP CLOSURE" DETAIL FOR TRAFFIC CONTROL AT EXIT RAMP CLOSURE.

THE EXACT NUMBER, LOCATION AND SPACING OF ALL SIGNS SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

IF THERE ARE ANY ROUTE MARKER ASSEMBLIES THAT WILL REMAIN IN PLACE, ADJUST THE LOCATION OF THE "TO" MO-4 ROUTE SIGNS TO CORRESPOND WITH THE EXISTING ASSEMBLIES. SEE SPECIFIC PROJECT TO SIGNING DETAIL SHEETS. MODIFY EXISTING SIGNS WHERE POSSIBLE.

THE SPACING BETWEEN TRAFFIC CONTROL AND "TO" MO-4 SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL " IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

SIGNS THAT SHALL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

"MO" SIGNS ARE THE SAME AS "M" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

SIGN SIZES SHALL BE AS FOLLOW:
- MO4 - 5 SHALL BE 24" X 12". (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS).
- M1 - 4, M1 - 5A, AND M1 - 6 SHALL BE 24" X 24" (36" X 36" IF NEEDED TO MATCH EXISTING SIGNS).
- MO5 - 1, MO5 - 2, AND MO6 - 1, SHALL BE 21" X 21". (30" X 30" IF NEEDED TO MATCH EXISTING SIGNS).

(1) ONLY ADD IF THERE ARE NO EXISTING ROUTE MARKERS FOR THE INTERSECTING ROADWAY.

OFF RAMP
LANE CLOSURE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2023
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEER

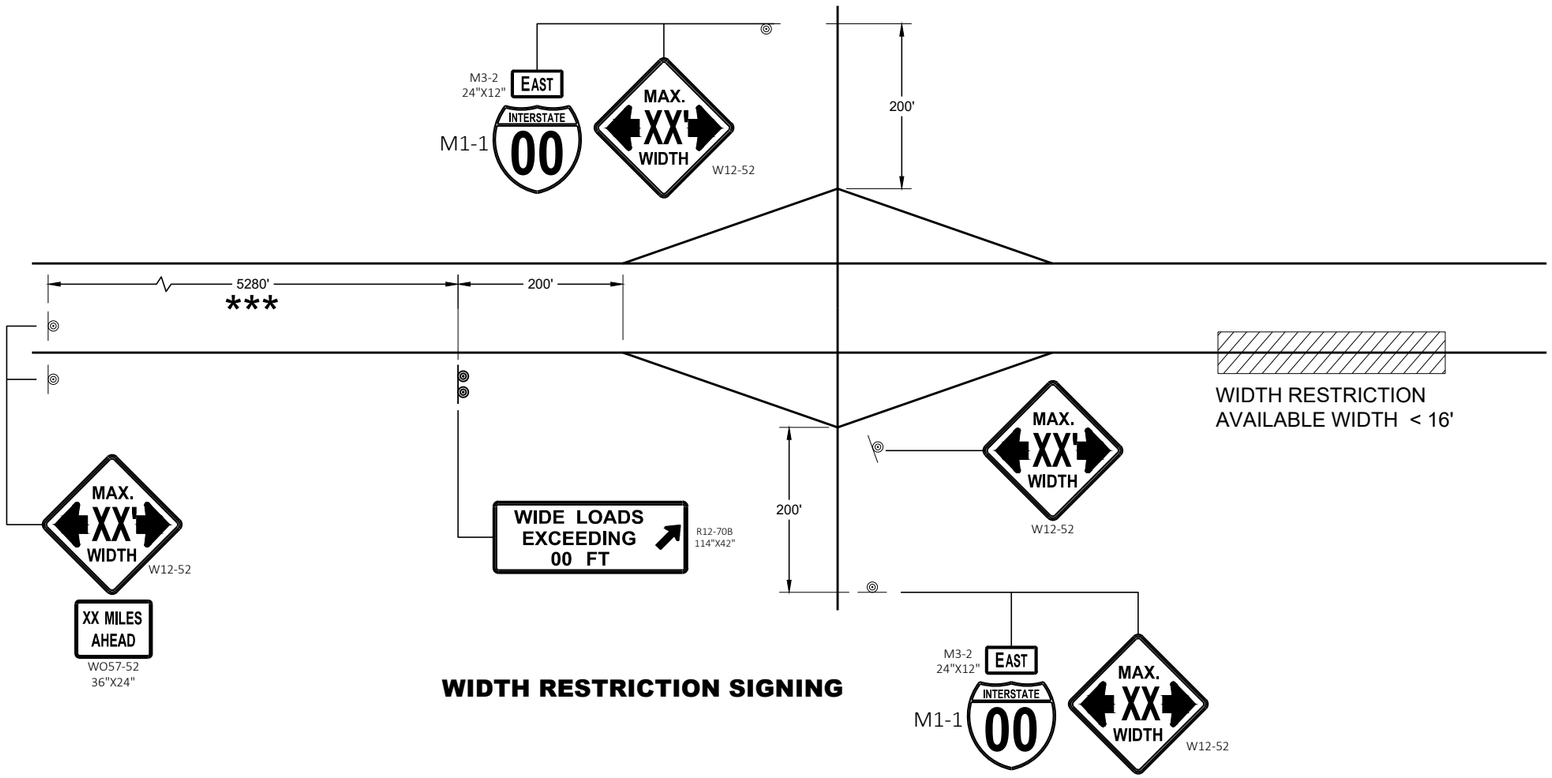
FHWA

6

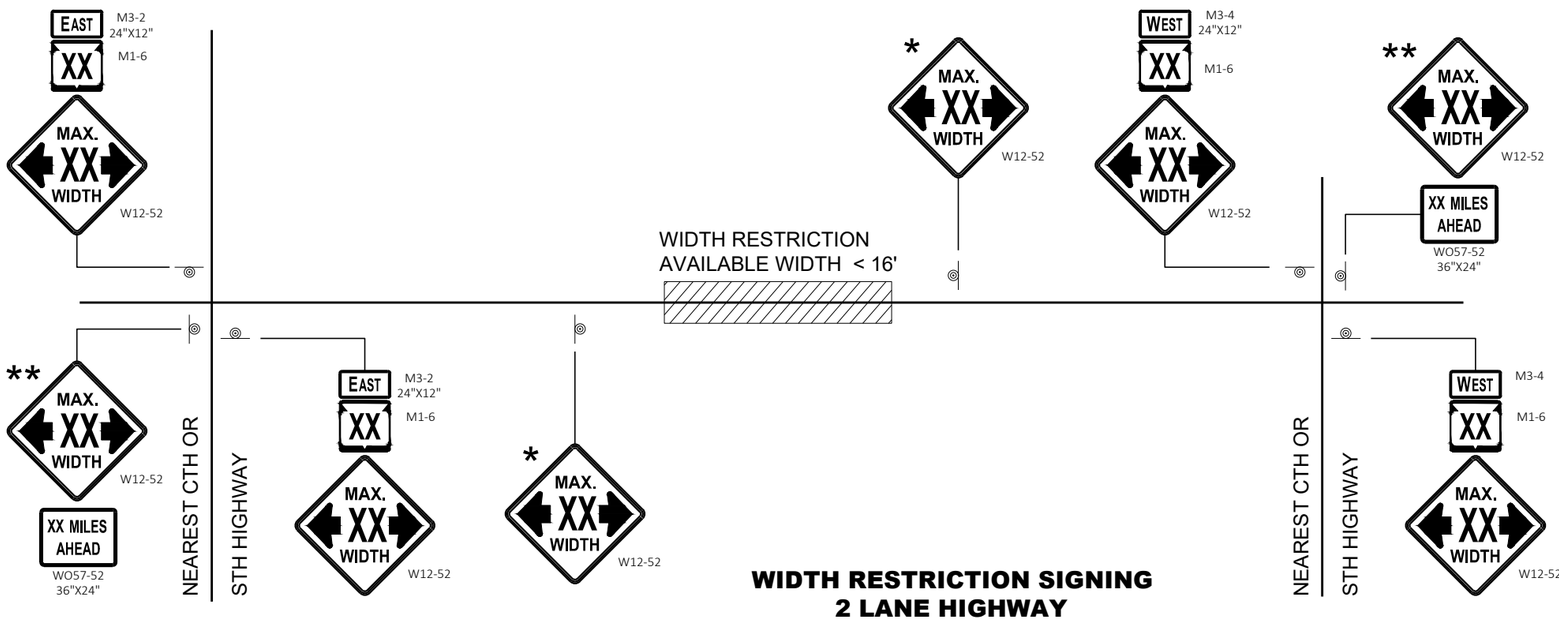
SDD 15C02 - 09e

6

SDD 15C02 - 09e



WIDTH RESTRICTION SIGNING



WIDTH RESTRICTION SIGNING
2 LANE HIGHWAY

LEGEND

SIGN ON PERMANENT SUPPORT

GENERAL NOTES

THE EXACT NUMBER, LOCATION AND SPACING OF ALL SIGNS SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL " IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.

"WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

WIDTH ON SIGN TO BE APPROXIMATELY ONE FOOT LESS THAN AVAILABLE WIDTH.

* PLACE 500 FEET AFTER THE W20 - 1A AND 500 FEET BEFORE ADDITIONAL SIGNS FOR ROADWAYS WITH A PRE - CONSTRUCTION SPEED LIMIT OF 45 MPH OR MORE. FOR 35-40 MPH, USE 350 FOOT TYPICAL SPACING. FOR 25-30 MPH, USE 200 FOOT TYPICAL SPACING.

** SIGN SHALL BE VISIBLE FROM ROADWAY.

*** ADDITIONAL SIGNS NEEDED IF THERE IS AN ON RAMP BETWEEN SIGNS.



WIDTH ON SIGN TO BE APPROX. 1 - FOOT LESS THAN AVAILABLE WIDTH

ADVANCED WIDTH RESTRICTION SIGNING

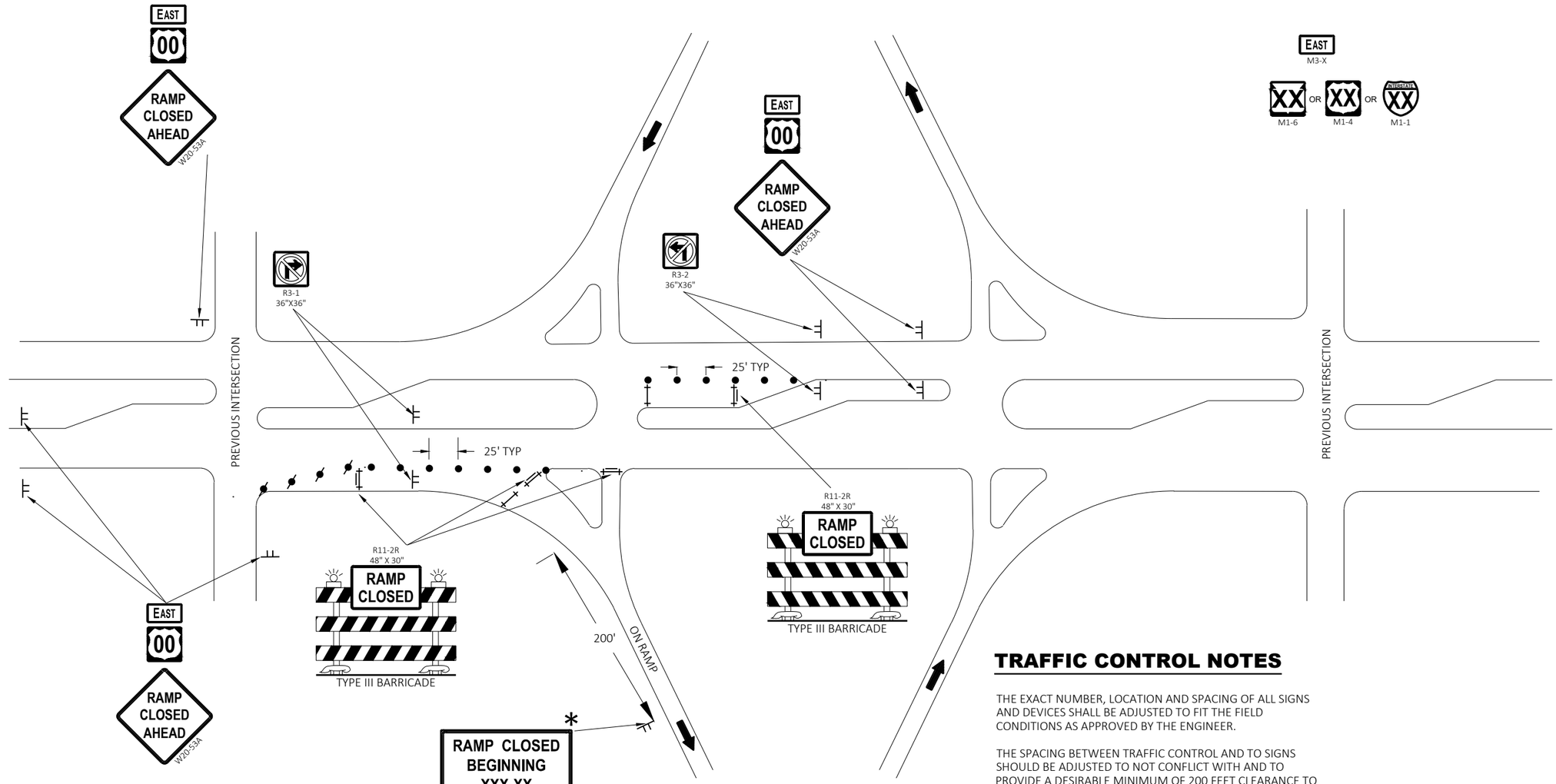
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2023 — DATE
/S/ Andrew Heidtke — WORK ZONE ENGINEER

FHWA

6

SDD 15C02 - 09f



LEGEND

- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
- TYPE III BARRICADE
- TYPE III BARRICADE WITH ATTACHED SIGN
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- DIRECTION OF TRAFFIC

TRAFFIC CONTROL NOTES

THE EXACT NUMBER, LOCATION AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT THE FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN TRAFFIC CONTROL AND TO SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH THE TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

SIGNS THAT SHALL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

SIGN SIZES SHALL BE AS FOLLOWS:

- M3-X SHALL BE 24"x24" (36" x18" IF NEEDED TO MATCH EXISTING SIGNS)
- M1-1, M1-4, AND M1-6 SHALL BE 24"x24" (36"x36" IF NEEDED TO MATCH EXISTING SIGNS)
- W20-53A SHALL BE 48"X48"

* PLACE "RAMP CLOSED BEGINNING" SIGN 7 CALENDAR DAYS PRIOR TO CLOSURE OR AS DIRECTED BY THE ENGINEER. SEE WISCONSIN STANDARD SIGN PLATES FOR LAYOUT.

TRAFFIC CONTROL FOR ENTRANCE RAMP CLOSURE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2023 — DATE
/S/ Andrew Heidtke — WORK ZONE ENGINEE

FHWA

6

SDD 15C02-09g

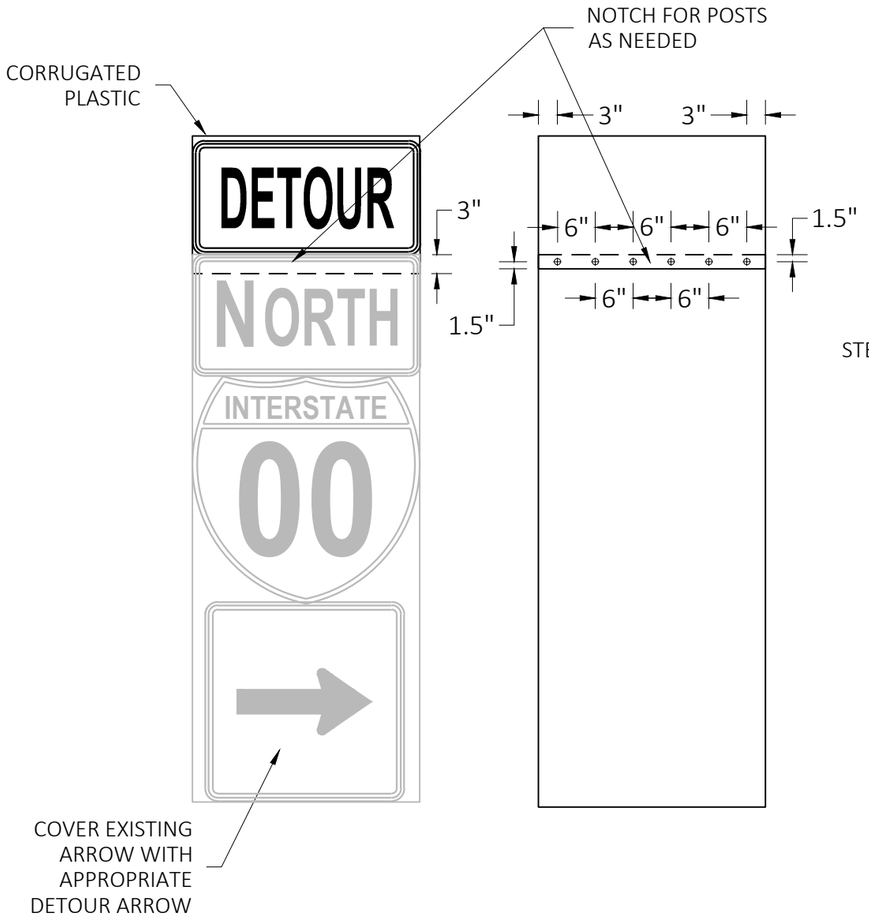
6

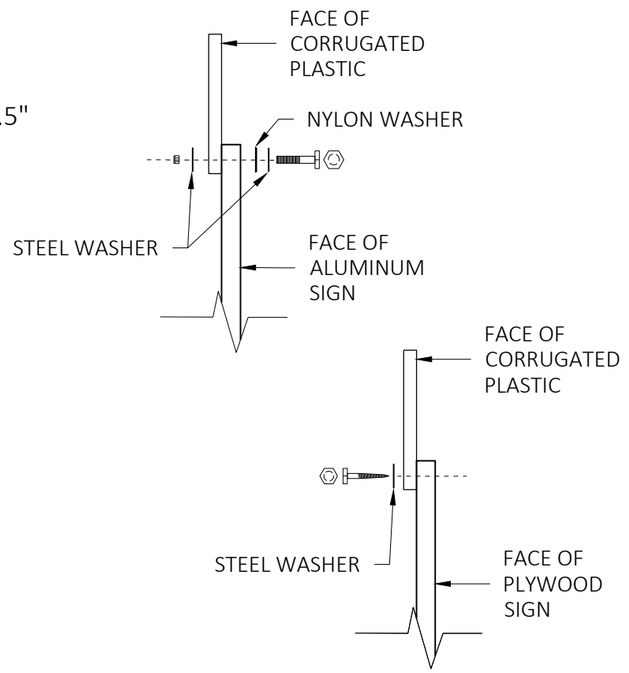
SDD 15C02-09g

FRONT SIDE

BACK SIDE

SIDE VIEW





GENERAL NOTES

CELLS OF CORRUGATED PLASTIC SHALL BE VERTICALLY ORIENTED.

PROVIDE A 0.4-INCH THICK BASE CORRUGATED PLASTIC WITH A 0.035-INCH WALL THICKNESS AND 0.4-INCH CELL SIZE.

FOR 36" WIDE SIGNS: USE 6 FASTENERS AS SHOWN.

FOR 24" WIDE SIGNS: USE 4 FASTENERS WITH EDGE SPACING AS SHOWN AND 6" SPACING BETWEEN FASTENERS.

METAL WASHERS, NUTS, BOLTS AND LAGS SHALL HAVE HEXAGONAL HEADS AND SHALL BE EITHER:

A. HOT DIP GALVANIZED IN ACCORDANCE WITH ASTM DESIGNATION: A 153, CLASS D, OR SC 3.

B. ELECTRO-GALVANIZED IN ACCORDANCE WITH ASTM DESIGNATION: B 633, TYPE III, SC3

THREADS ON BOLTS AND NUTS SHALL BE MANUFACTURED WITH SUFFICIENT ALLOWANCE FOR THE CADMIUM PLATE OR GALVANIZED COATING TO PERMIT THE NUTS TO RUN FREELY ON THE BOLTS.

PLYWOOD SIGNS:
LAG SCREWS - 5/16" x 1"
ALUMINUM SIGNS:
MACHINE BOLTS - 5/16" x 1-1/4" LENGTH W/NUTS
WASHERS:
1-1/4" O.D. x 3/8" I.D. x 1/16" STEEL
1-1/4" O.D. x 3/8" I.D. x .080 NYLON

MODIFIED ROUTE ASSEMBLY FOR DETOUR SIGNING

MODIFIED ROUTE ASSEMBLY FOR DETOUR SIGNING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2023
DATE

/S/ Andrew Heidtke
ROADWAY STANDARDS DEVEL ENGINEER

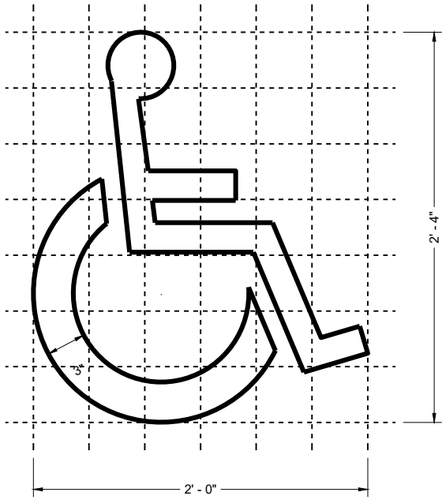
FHWA

6

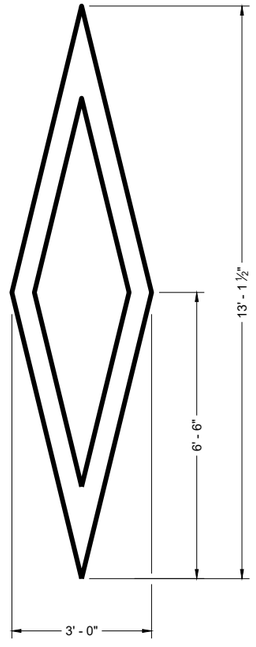
SDD 15C02-09h

GENERAL NOTES

DETAILS OF INSTALLATION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.



HANDICAP SYMBOL



PREFERENTIAL LANE SYMBOL

6

6

SDD 15C07-16a

SDD 15C07-16a

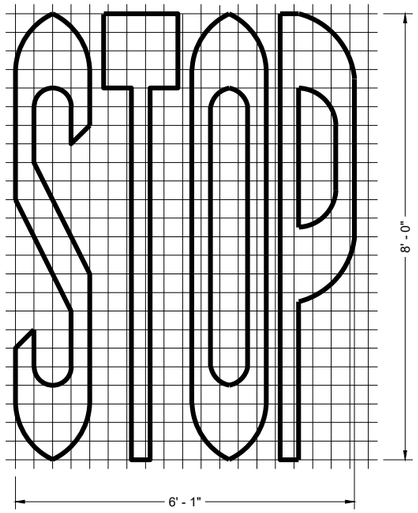
PAVEMENT MARKING SYMBOLS

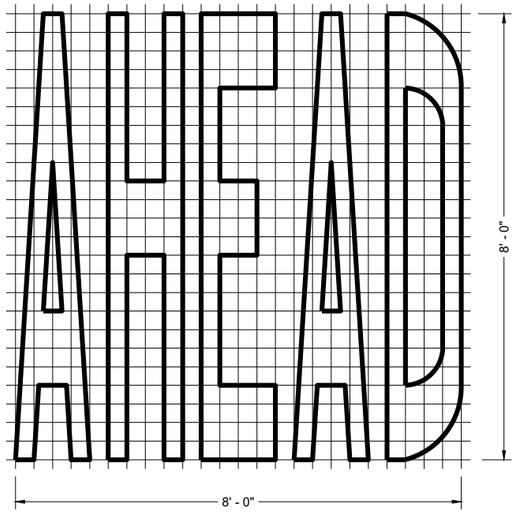
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

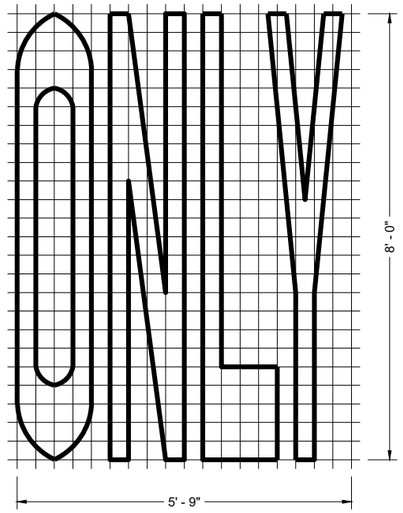
APPROVED
November 2024
DATE

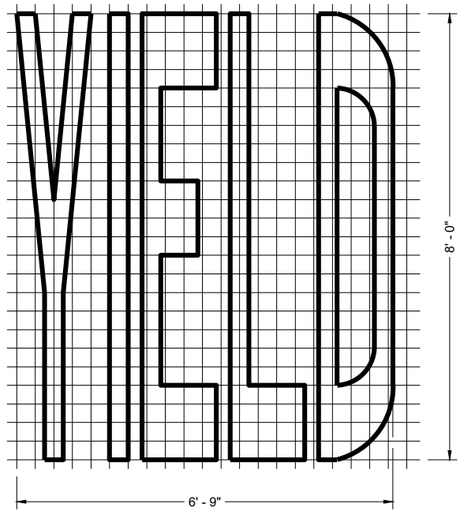
/S/ Jeannie Silver
STATE SIGNING AND MARKING ENGINEER

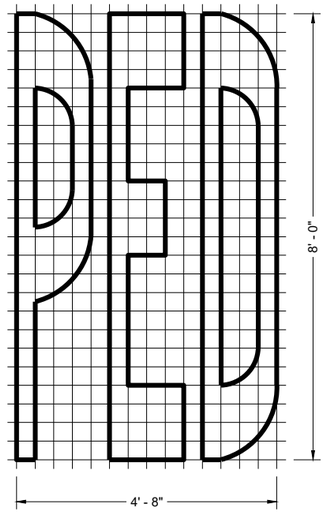
FHWA

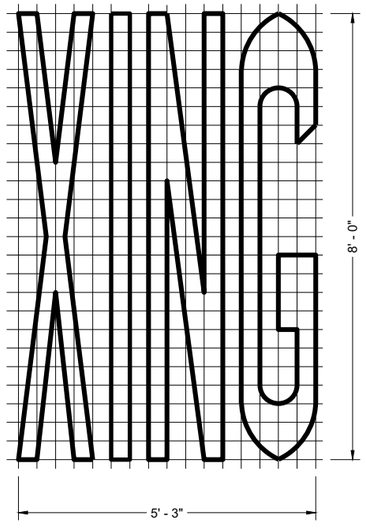


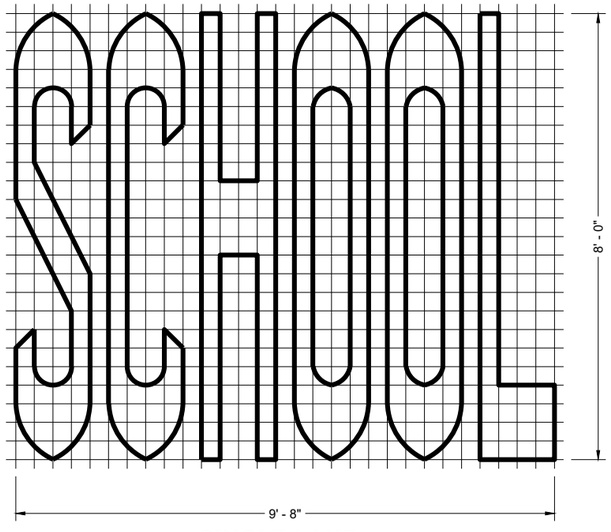




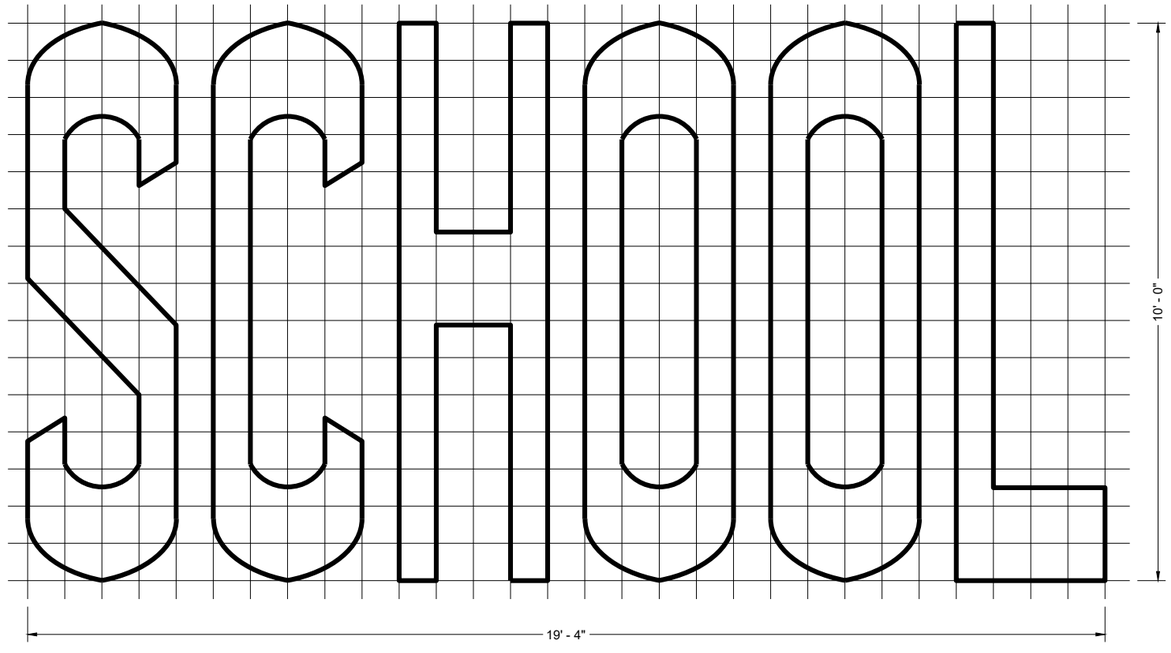








SINGLE LANE



TWO - LANE

GENERAL NOTES

DETAILS OF INSTALLATION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

PAVEMENT MARKING WORDS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2024 — DATE
/S/ Jeannie Silver — STATE SIGNING AND MARKING ENGINEER

FHWA

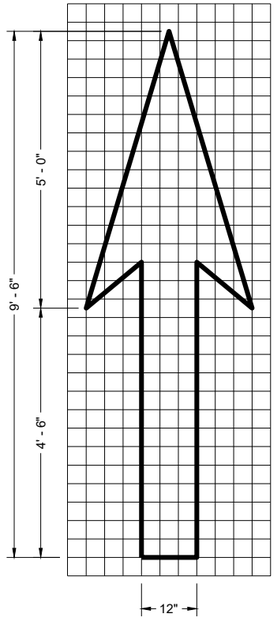
6

SDD 15C07-16b

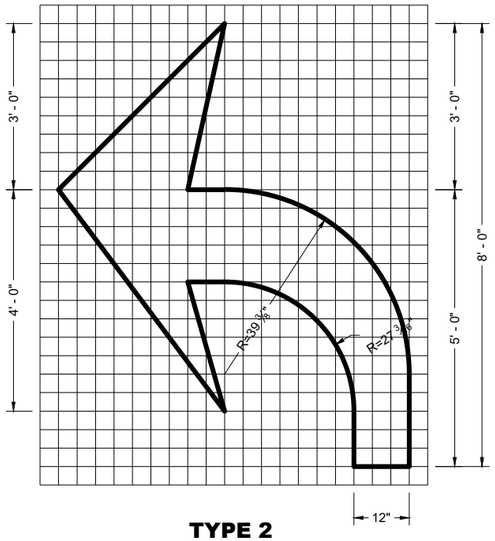
SDD 15C07-16b

GENERAL NOTES

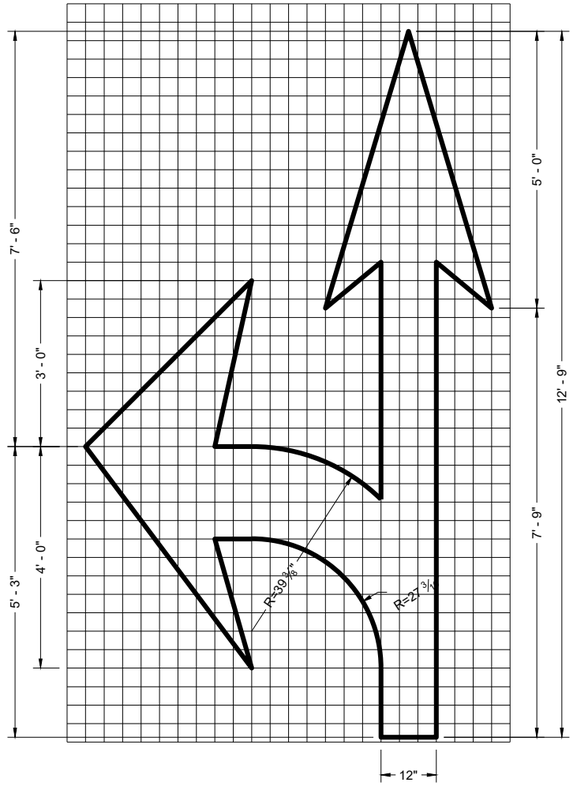
DETAILS OF INSTALLATION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.



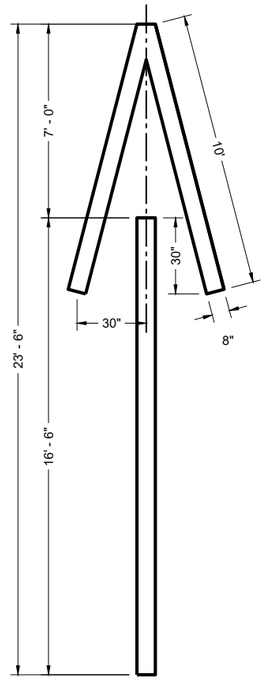
TYPE 1



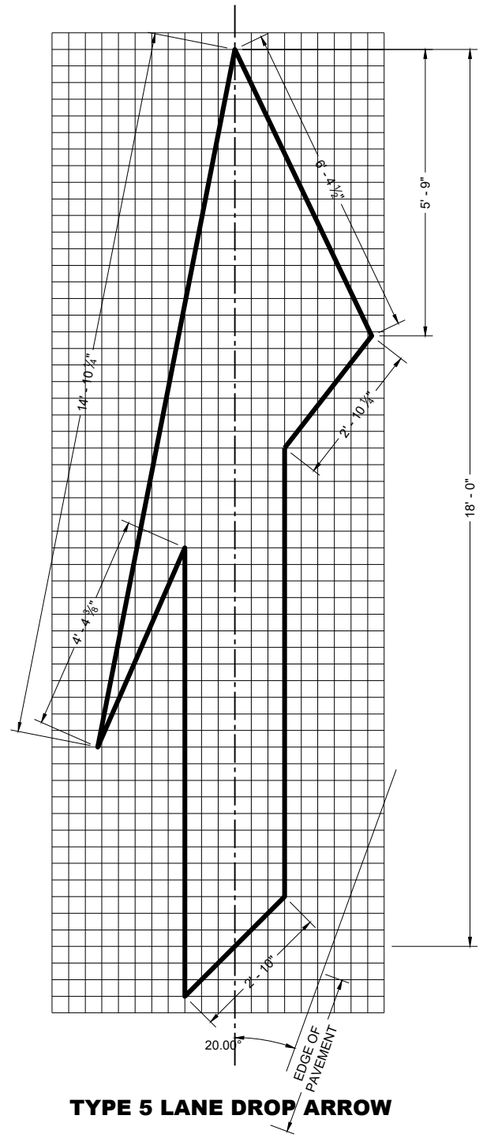
TYPE 2



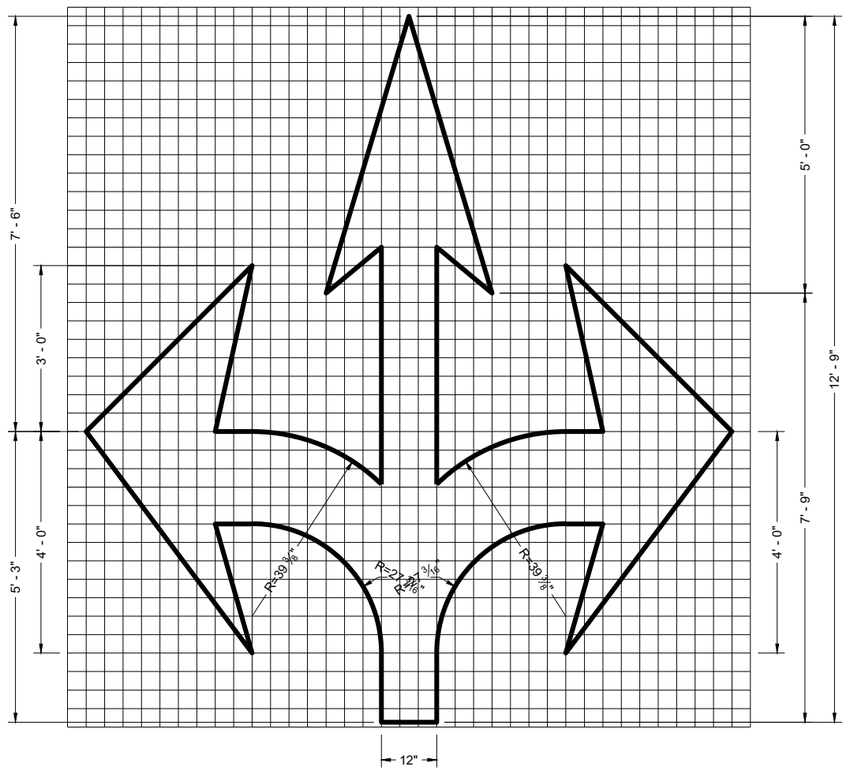
TYPE 3



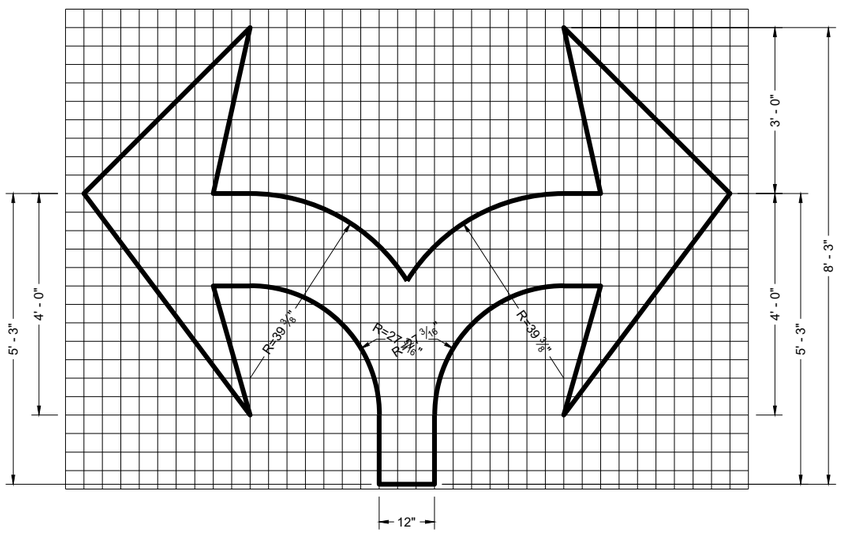
TYPE 4



TYPE 5 LANE DROP ARROW



TYPE 6



TYPE 7

PAVEMENT MARKING ARROWS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2024 — DATE
/S/ Jeannie Silver — STATE SIGNING AND MARKING ENGINEER

FHWA

SDD 15C07-16c

6

SDD 15C07-16c

GENERAL NOTES

DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS.

(1) LOCATE THE NO PASSING ZONE W14-3 SIGN WITHIN 50 FEET OF THE "T" MARKING

(2) MEASURE FROM EDGE OF MARKING TO JOINT LINE. THIS DOES NOT INCLUDE SPACE NEEDED FOR GROOVING OPERATIONS.

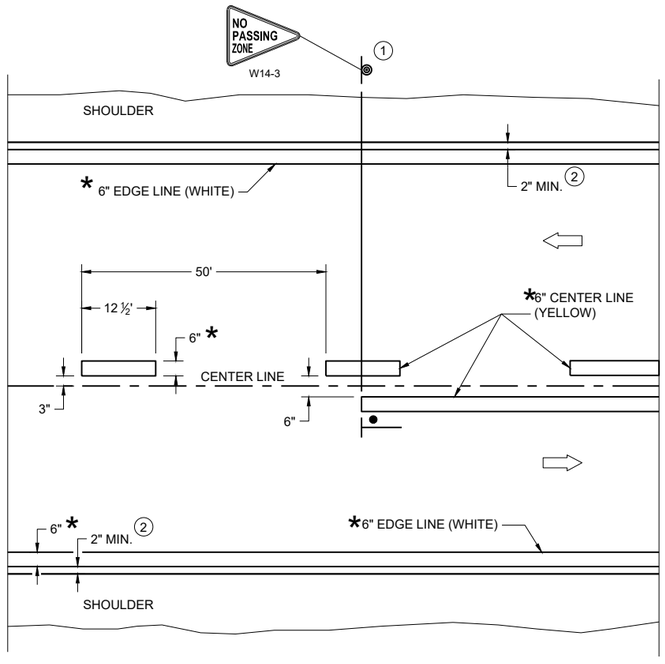
LEGEND

"T" MARKING

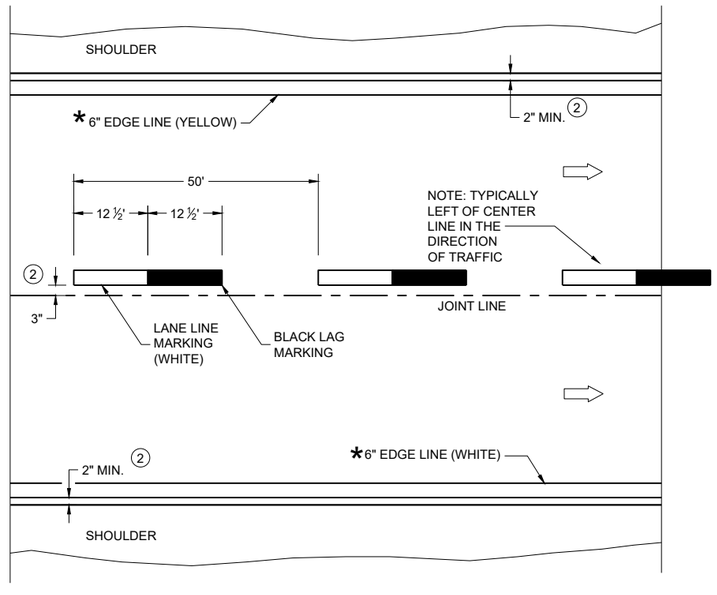
SIGN ON PERMANENT SUPPORT

DIRECTION OF TRAFFIC

*CONFIRM MARKING LINE WIDTH WITH THE MISCELLANEOUS QUANTITIES



TWO WAY TRAFFIC



ONE WAY TRAFFIC

PERMANENT PAVEMENT MARKING

6

SDD 15C08-24a

PERMANENT LONGITUDINAL PAVEMENT MARKINGS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

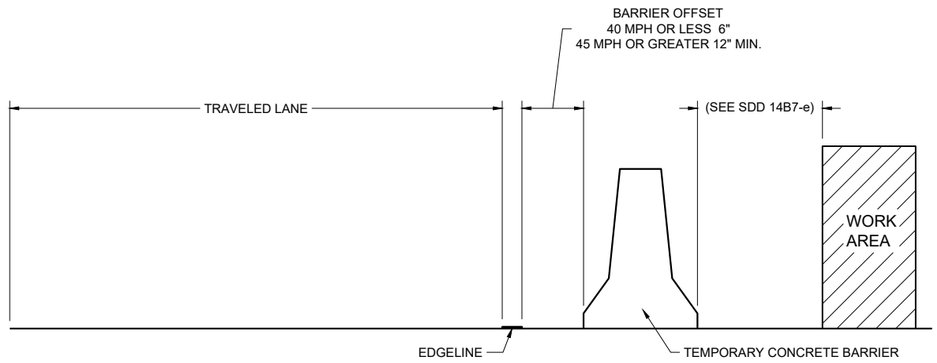
APPROVED
December 2024
DATE

/S/ Jeannie Silver
Statewide Pavement Marking Engineer

FHWA

6

SDD 15C08-24a



TEMPORARY BARRIER OFFSET FROM EDGELINE

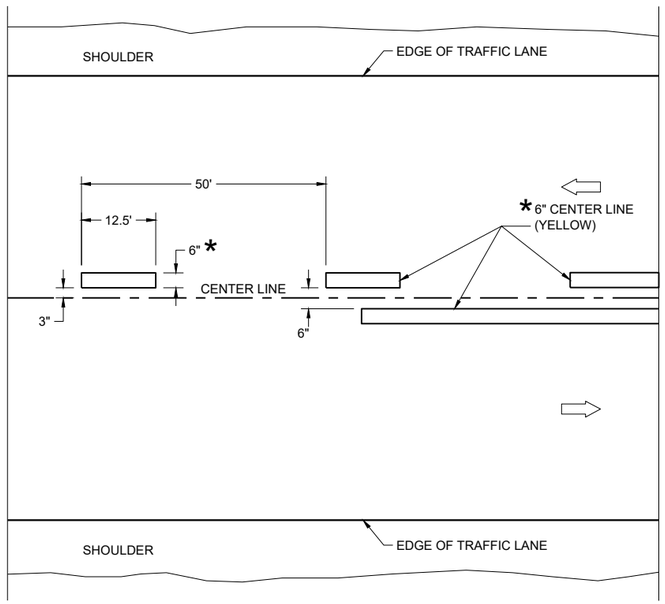
GENERAL NOTES

DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS.

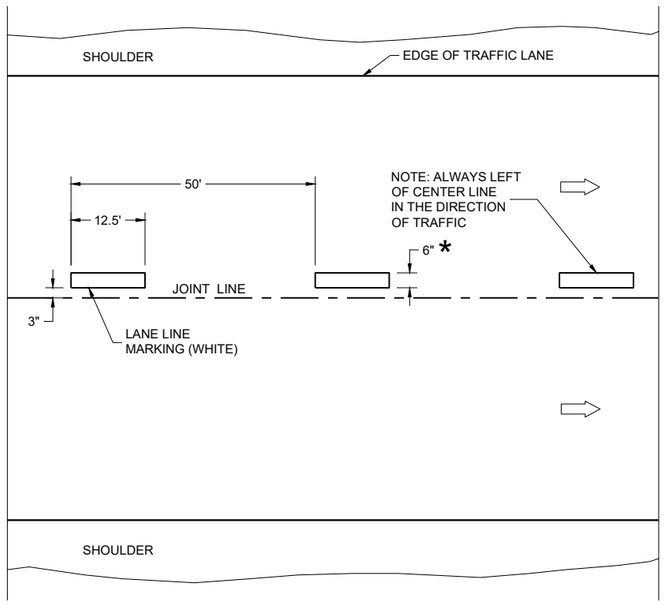
LEGEND

⇨ DIRECTION OF TRAFFIC

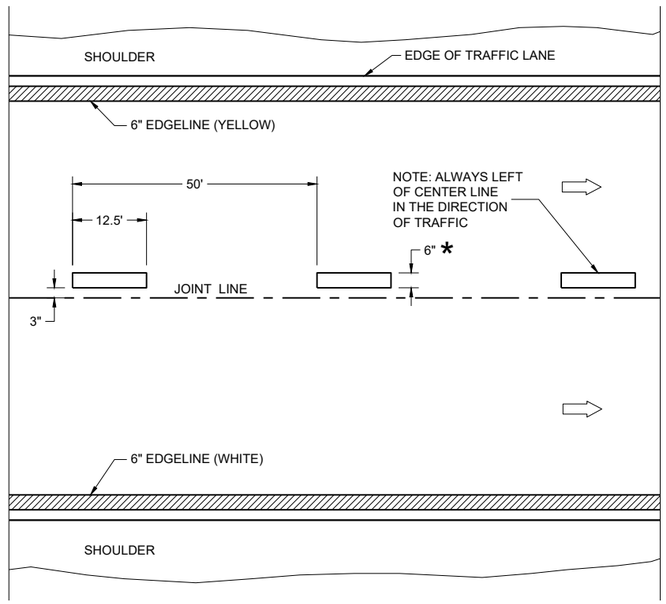
*CONFIRM MARKING LINE WIDTH WITH THE MISCELLANEOUS QUANTITIES



TWO WAY TRAFFIC



ONE WAY TRAFFIC



FREEWAYS AND EXPRESSWAYS

TEMPORARY PAVEMENT MARKING

TEMPORARY LONGITUDINAL PAVEMENT MARKING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
December 2024
DATE

/S/ Jeannie Silver
Statewide Pavement Marking Engineer

FHWA

6

SDD 15C08-24b

6

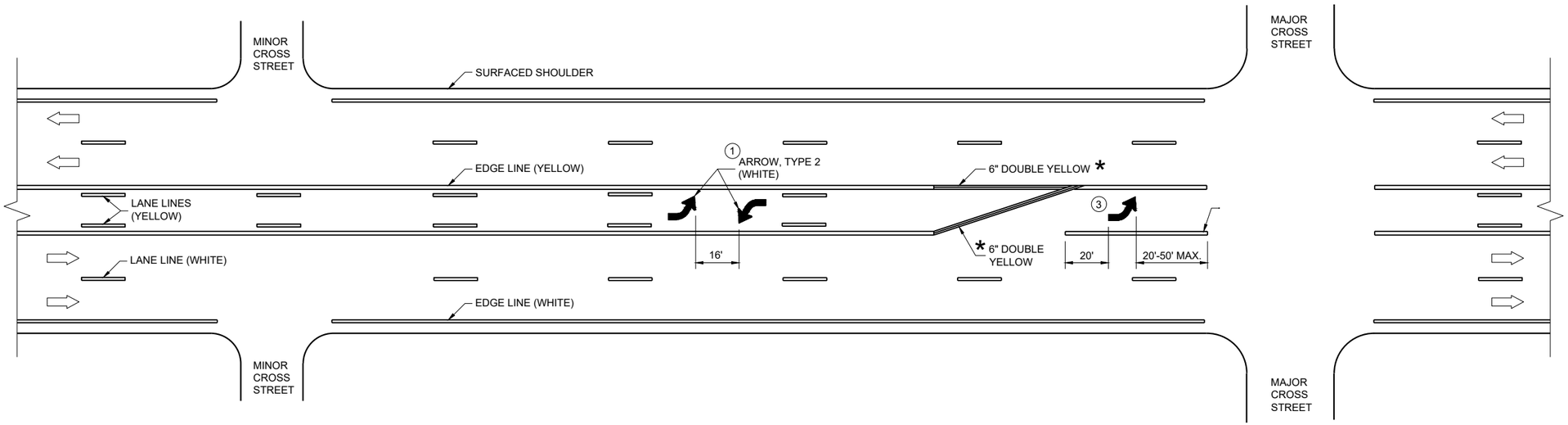
SDD 15C08-24b

GENERAL NOTES

1. A SET OF ARROWS IS REQUIRED EVERY 400 FEET OR NEAR INTERSECTIONS OR DRIVEWAYS WITH TURNING TRAFFIC.
2. 10" WHITE
3. TURN BAY LENGTH OF LESS THAN 48' DOES NOT REQUIRE PAVEMENT ARROWS OR TEXT.

⇨ DIRECTION OF TRAFFIC

*CONFIRM MARKING LINE WIDTH WITH THE MISCELLANEOUS QUANTITIES



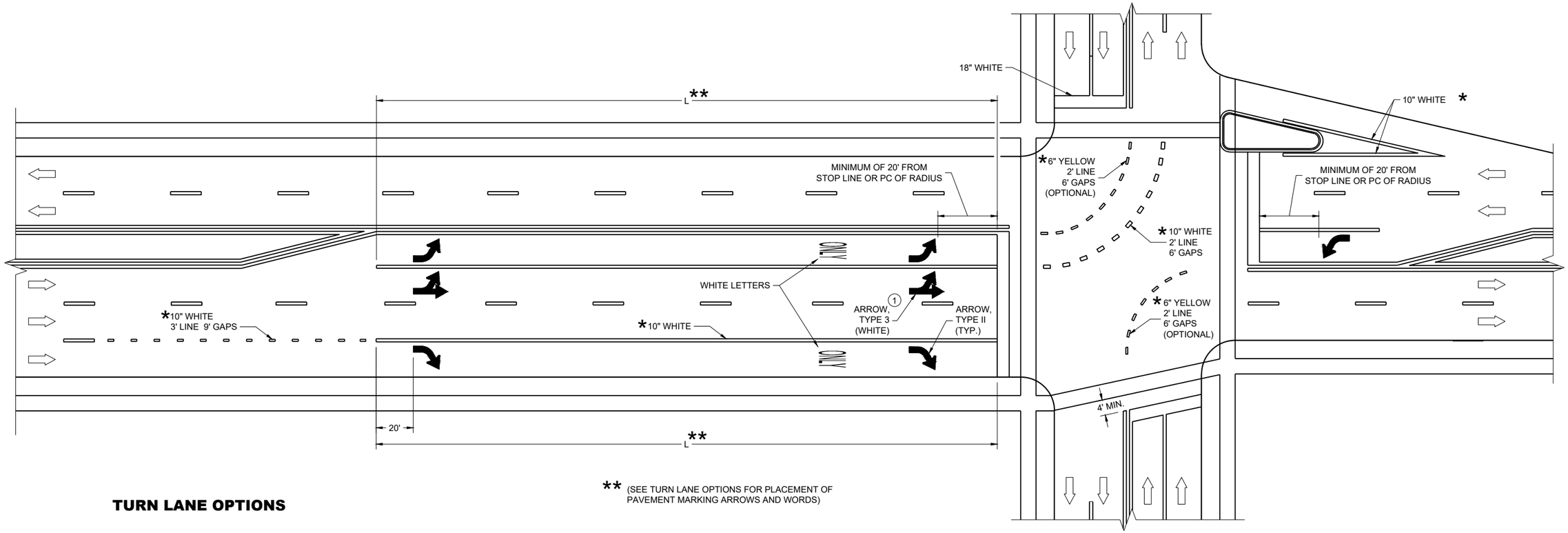
TWO WAY LEFT TURN LANE

PAVEMENT MARKING (TURN LANES)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

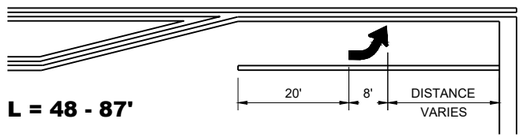
SDD 15C08-24c



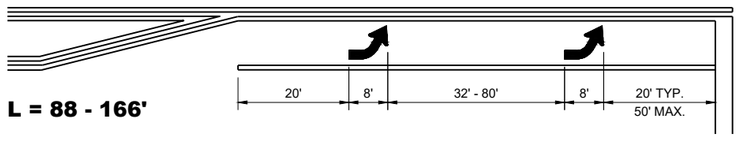
** (SEE TURN LANE OPTIONS FOR PLACEMENT OF PAVEMENT MARKING ARROWS AND WORDS)

TURN LANE OPTIONS

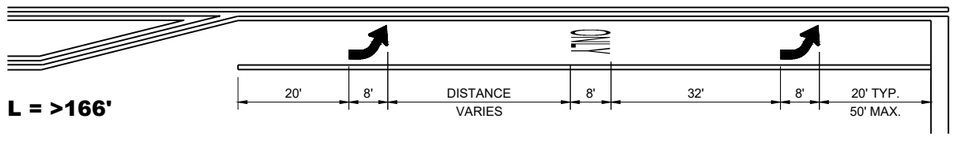
LENGTH OF TURN BAY (**L**) OF 0 - 47' DOES NOT
REQUIRE PAVEMENT MARKING ARROWS OR WORDS



L = 48 - 87'



L = 88 - 166'



L = >166'

GENERAL NOTES

1. QUANTITY AND LOCATION OF TYPE 3 ARROWS ARE THE SAME AS THE TYPE II ARROWS IN THE ADJACENT TURN LANE. FOR TURN LANES WITH A PHYSICAL SEPARATION IN THE SAME DIRECTION OF TRAVEL, THE ARROWS AND "ONLY" MARKING MAY BE ELIMINATED.

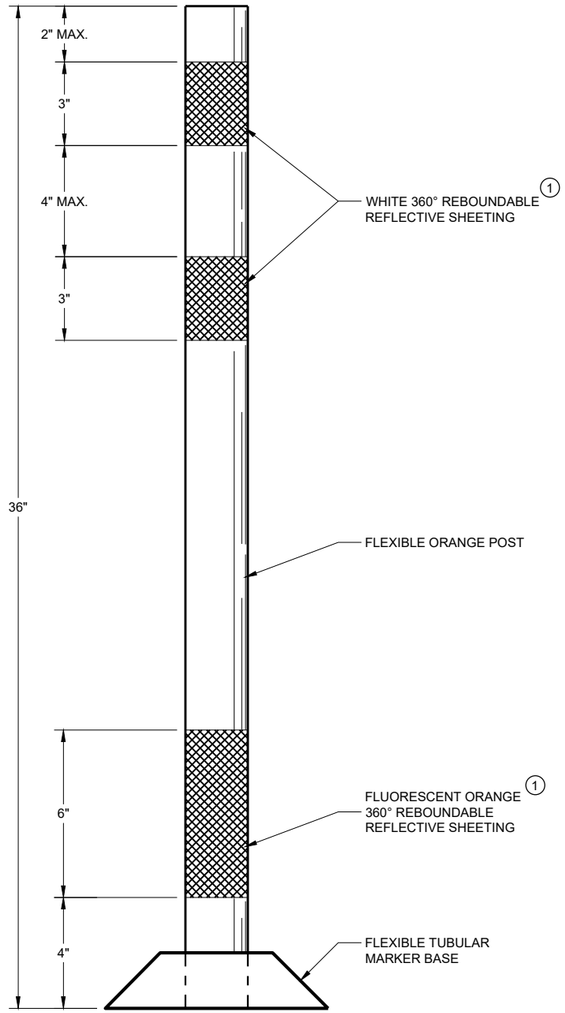
DIRECTION OF TRAFFIC

L = LENGTH OF TURN BAY

*CONFIRM MARKING LINE WIDTH WITH THE MISCELLANEOUS QUANTITIES

PAVEMENT MARKING (TURN LANES)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION



FLEXIBLE TUBULAR MARKER POST WORK ZONE

GENERAL NOTES

DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

SURFACE MOUNTED BASES SHALL BE FURNISHED IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS TO BE COMPATIBLE WITH FLEXIBLE TUBULAR MARKER POSTS TO A SIZE AND SHAPE THAT WILL PROVIDE A STABLE POST FOUNDATION WHEN SECURED TO THE PAVEMENT.

THE ASPHALTIC ADHESIVE OR BUTYL PAD FURNISHED SHALL BE IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS, UNLESS DIRECTED BY THE ENGINEER TO USE BOLTS.

(1) REFLECTIVE SHEETING SHALL FOLLOW THE REQUIREMENTS IN THE APPROVED PRODUCTS LISTING FOR SIGN SHEETING.

6

SDD 15C11 - 10a

CHANNELIZING DEVICES
FLEXIBLE TUBULAR MARKER POST

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2022
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEER

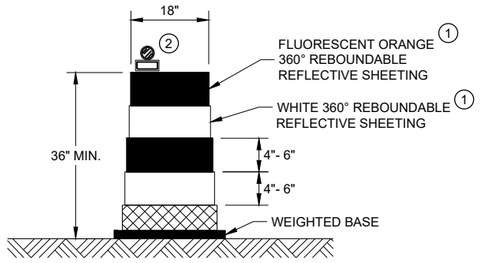
FHWA

6

SDD 15C11 - 10a

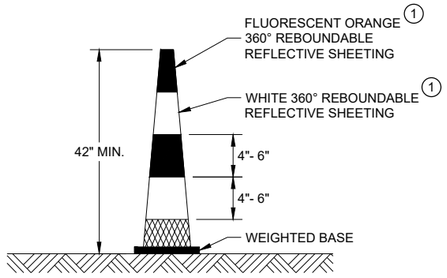
GENERAL NOTES

1. REFLECTIVE SHEETING SHALL FOLLOW THE REQUIREMENTS IN THE APPROVED PRODUCTS LISTING FOR SIGN SHEETING.
2. LOCATION OF WARNING LIGHTS WHEN SHOWN ON THE PLAN.



DRUM

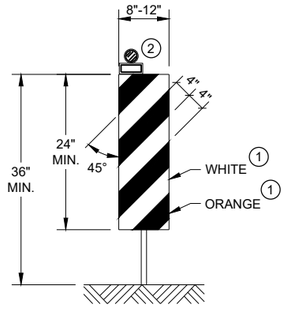
BALLAST WIDTHS
RANGE FROM 24"-36"



42" CONE

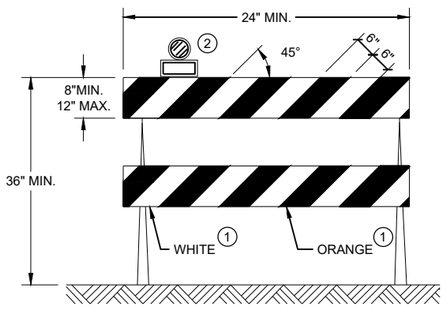
DO NOT USE IN TAPERS
½ SPACING OF DRUMS

BALLAST WIDTHS
RANGE FROM 14"-20"



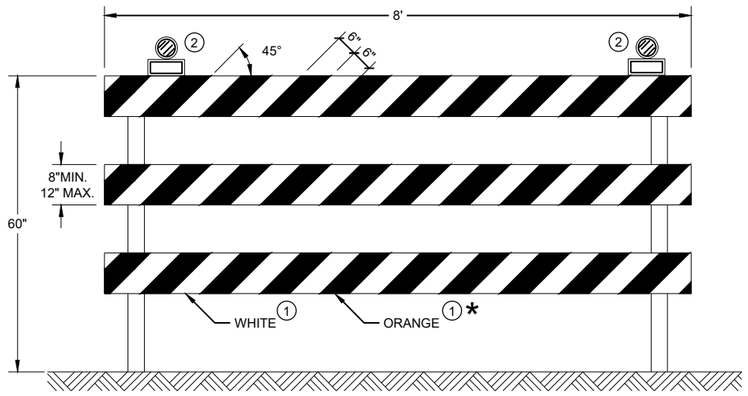
VERTICAL PANEL

THE STRIPES SHALL SLOPE DOWNWARD TO
THE TRAFFIC SIDE FOR CHANNELIZATION.



TYPE II BARRICADE

FOR RAILS LESS THAN 36" LONG, 4" WIDE STRIPES
MAY BE USED. ALL STRIPES SHALL SLOPE DOWNWARD
TO THE TRAFFIC SIDE FOR CHANNELIZATION.



TYPE III BARRICADE

IF SIGN MOUNTED, DO NOT COVER MORE THAN 50% OF THE TOP
TWO RAILS OR 33% OF THE TOTAL AREA OF THE THREE RAILS.

* IF USED FOR A PERMANENT APPLICATION USE RED SHEETING.

CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2022
DATE

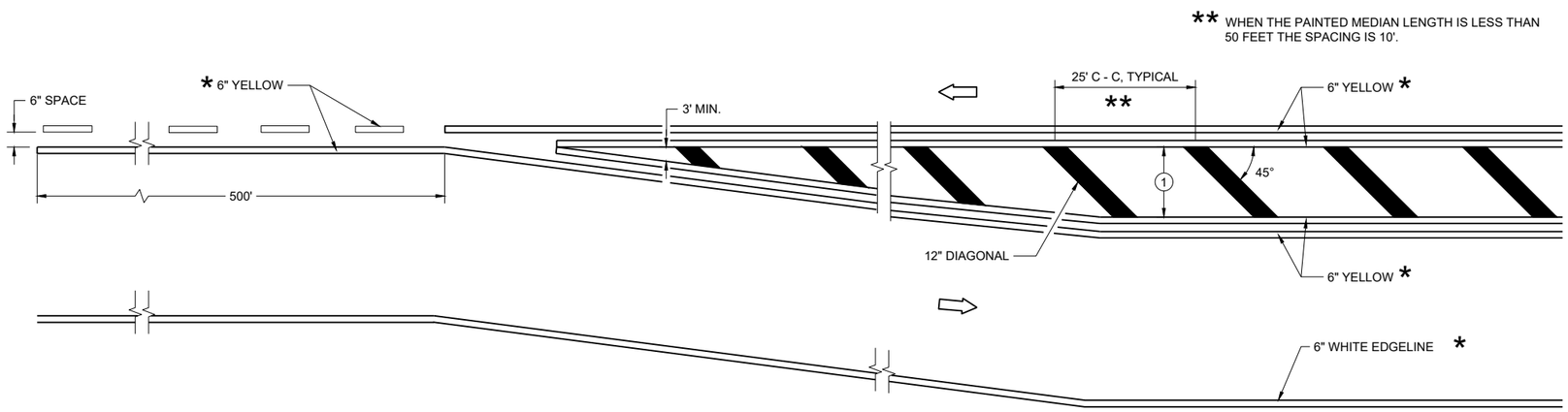
/S/ Andrew Heidtke
WORK ZONE ENGINEE

374

FHWA

6

SDD 15C11 - 10b



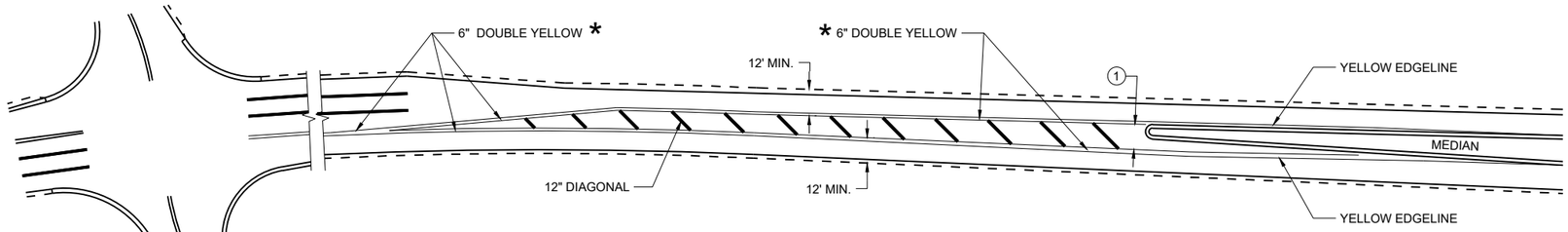
MEDIAN ISLAND DETAIL

GENERAL NOTES

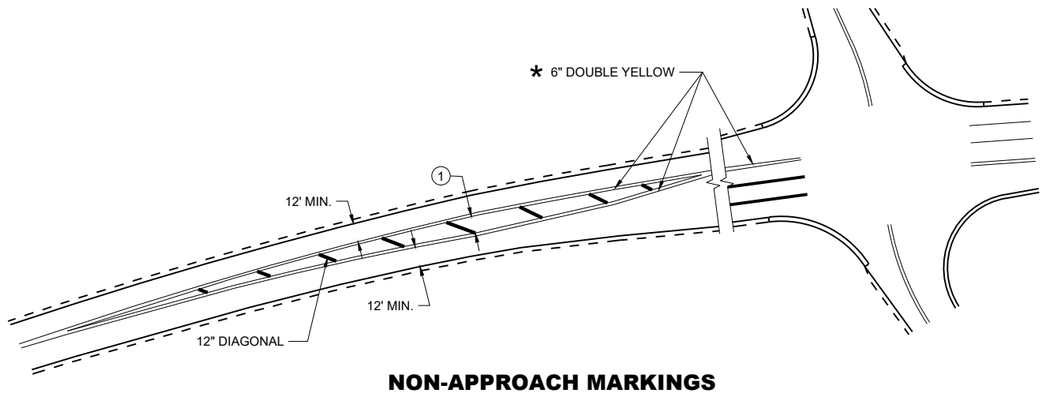
(1) DIAGONALS ARE OPTIONAL WHEN PAINTED ISLAND IS LESS THAN 6 FEET AT THE WIDEST POINT. OMIT DIAGONALS IF WIDTH IS LESS THAN 4 FEET.

DIRECTION OF TRAVEL

*CONFIRM MARKING LINE WIDTH WITH THE MISCELLANEOUS QUANTITIES



APPROACH MARKINGS FOR OTHER MEDIAN TYPES



NON-APPROACH MARKINGS

MEDIAN ISLAND PAVEMENT MARKINGS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
August 2024
DATE

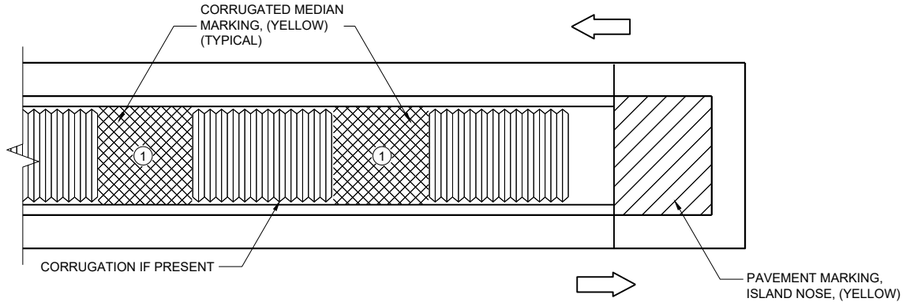
/S/ Jeannie Silver
Statewide Pavement Marking Engineer

FHWA

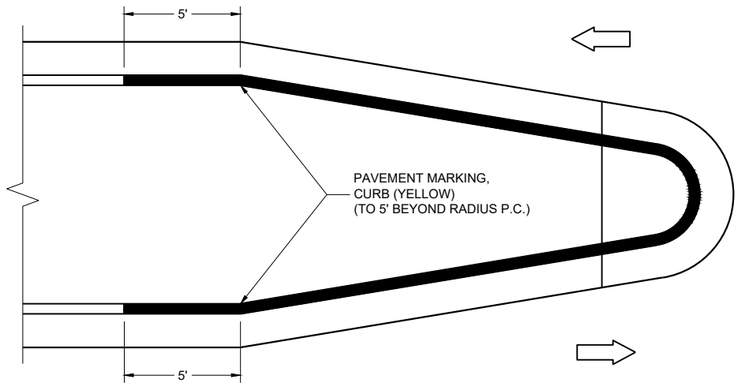
6

SDD 15C18-09a

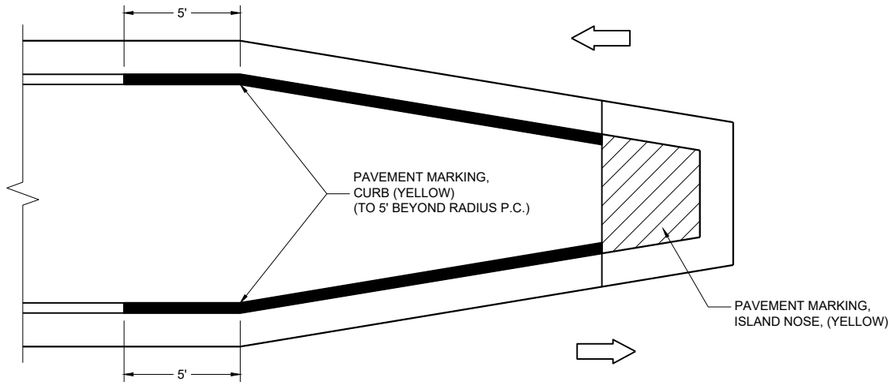
SDD 15C18-09a



MEDIAN ISLAND WITH SQUARE BLUNT NOSE



MEDIAN ISLAND WITH ROUND BLUNT NOSE



MEDIAN ISLAND WITH SLOPED NOSE

**TYPICAL PLACEMENT OF
PAVEMENT MARKING ON MEDIAN ISLANDS**

GENERAL NOTES

WHEN CONCRETE CORRUGATED MEDIAN IS CONSTRUCTED TO SEPARATE TRAFFIC OPERATING IN THE OPPOSING DIRECTION, YELLOW PAVEMENT MARKING SHALL BE APPLIED TO THE FLAT PORTION OF THE CONCRETE CORRUGATED MEDIAN. THE ITEM OF PAVEMENT MARKING, CONCRETE CORRUGATED MEDIAN, WILL BE MEASURED IN PLACE AND ACCEPTED IN ACCORDANCE WITH THE CONTRACT AND PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE FOOT.

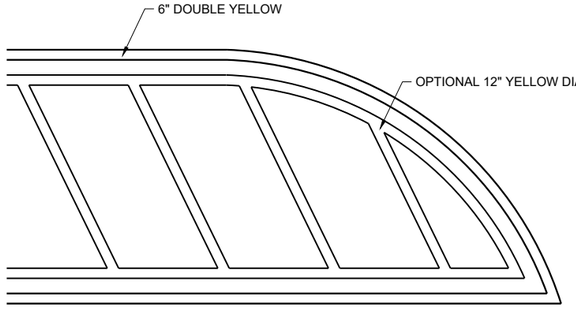
(1) APPLY PAVEMENT MARKING TO THE FLAT PORTION OF CORRUGATED MEDIAN.

ISLAND NOSE MARKING

CURB MARKING

CORRUGATED MEDIAN MARKING

DIRECTION OF TRAVEL



FLUSH MEDIAN ISLAND NOSE

**PAVEMENT MARKINGS,
MEDIAN ISLAND NOSE**

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
August 2024
DATE

/S/ Jeannie Silver
Statewide Pavement Marking Engineer

FHWA

6

SDD 15C18-09b

REQUIREMENTS FOR EDGE LINES		
POSTED SPEED	IS THERE CONTINUOUS LIGHTING?	
	YES	NO
≤ 30 MPH	NO	OPTIONAL
35 OR 40 MPH	OPTIONAL	RECOMMENDED
≥ 45 MPH	RECOMMENDED	REQUIRED

GENERAL NOTES

APPLIES TO ISLANDS AT LEFT TURNS AT ONE WAY ROADWAYS AS WELL.

SEE MISCELLANEOUS QUANTITIES FOR SIGN SIZE.

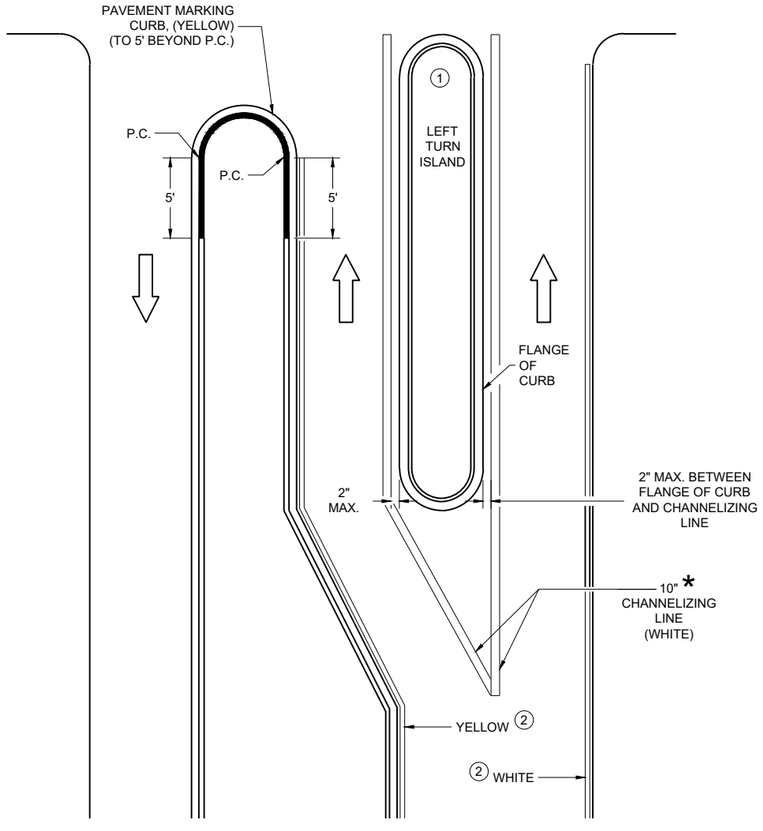
(1) MARK CURB NOSES YELLOW.

(2) MARK ACCORDING TO TABLE.

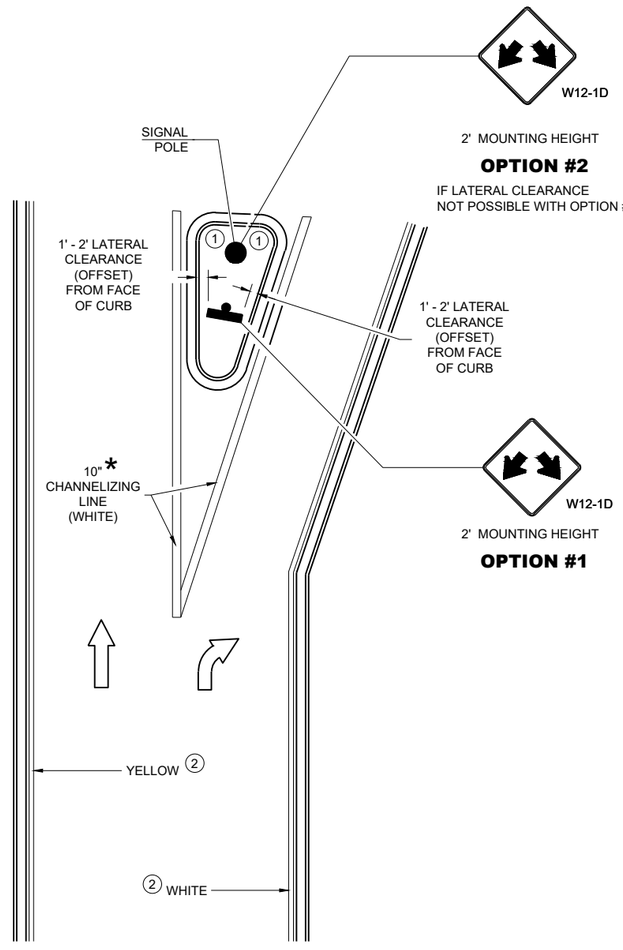
(3) CHEVRON MAY BE OMITTED IF LESS THAN 4" WIDE

DIRECTION OF TRAVEL

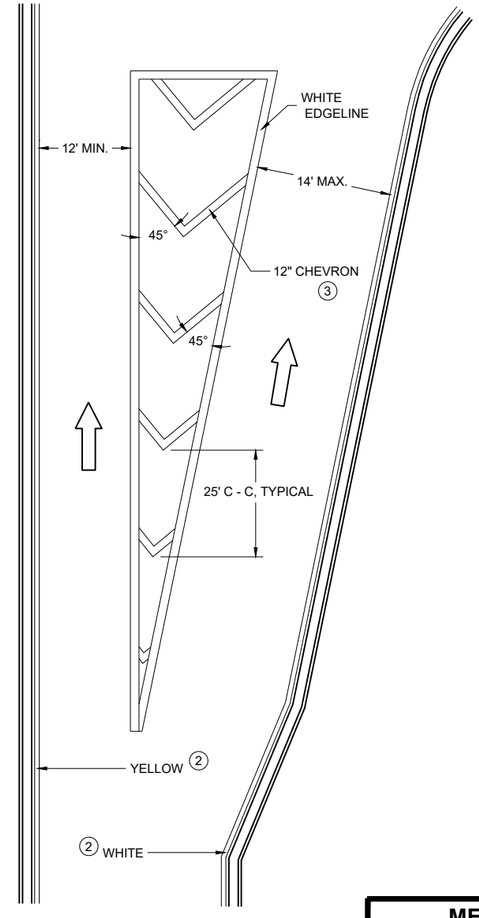
*CONFIRM MARKING LINE WIDTH WITH THE MISCELLANEOUS QUANTITIES



LEFT TURN & MEDIAN ISLAND



RIGHT TURN ISLAND



TURN LANE DETAIL

MEDIAN PAVEMENT MARKINGS, DOUBLE ARROW WARNING SIGN PLACEMENT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
August 2024
DATE

/S/ Jeannie Silver
Statewide Pavement Marking Engineer

FHWA

6

SDD 15C18-09c

6

SDD 15C18-09c

LEGEND

V1 LEAD VEHICLE

V2 MARKING VEHICLE

V3 SHADOW VEHICLE

TRUCK MOUNTED ATTENUATOR (TMA)

SIGN ON TEMPORARY SUPPORT

DIRECTION OF TRAFFIC

ARROW PANEL (CAUTION)

GENERAL NOTES

ALL VEHICLES SHALL BE EQUIPPED WITH TWO 360 DEGREE HIGH INTENSITY YELLOW FLASHING LIGHTS OR STROBE LIGHTS AND OPERATED WITH HEADLIGHTS TURNED ON.

ALL VEHICLES SHALL BE EQUIPPED WITH REAR FACING TYPE B OR C FLASHING ARROW PANEL. SIGNS PLACED ON VEHICLES MUST NOT OBSCURE THE ARROW PANEL.

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE SPECIFIED.

DISTANCE BETWEEN VEHICLES MAY VARY ACCORDING TO TERRAIN, SIGHT DISTANCE, PAINT DRYING TIME, AND OTHER FACTORS. WHENEVER ADEQUATE STOPPING SIGHT DISTANCE EXISTS TO THE REAR, SHADOW VEHICLES SHOULD MAINTAIN THE MINIMUM DISTANCE FROM THE WORK VEHICLE AND PROCEED AT THE SAME SPEED AS THE WORK VEHICLE. SHADOW VEHICLES SHOULD SLOW DOWN IN ADVANCE OF VERTICAL AND HORIZONTAL CURVES THAT RESTRICT SIGHT DISTANCE.

WHEN WORK ACTIVITY BLOCKS THE LEFT LANE, REVERSE TRAFFIC CONTROL.

WHEN A RAMP INTERSECTS THE FACILITY ON WHICH THE WORK IS BEING PERFORMED, PROVIDE ADDITIONAL TRAFFIC CONTROLS AS SPECIFIED IN THE CONTRACT OR AS APPROVED BY THE ENGINEER.

WORKERS SHALL NOT PERFORM WORK FROM ANY SHADOW OR PROTECTION VEHICLES.

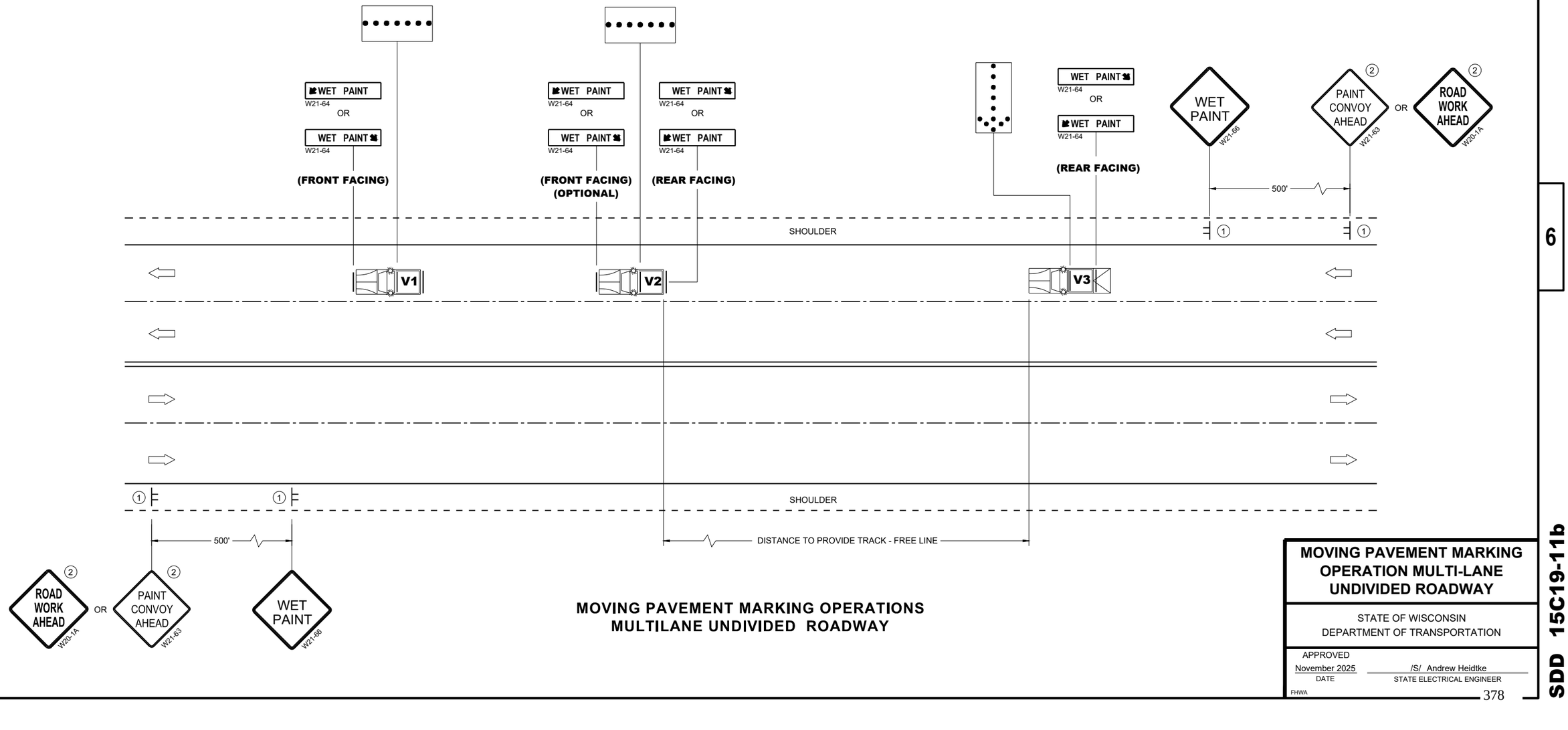
WHEN NO WORK ACTIVITY IS TAKING PLACE, REMOVE OR LAY STATIONARY SIGNS AND SUPPORTS FLAT ON THE GRADE WITH UPRIGHTS ORIENTED PARALLEL TO AND DOWNSTREAM FROM TRAFFIC.

CONES SHOULD BE USED BETWEEN THE MARKING AND SHADOW VEHICLES AT 100 FOOT SPACING. CONES MAY BE OMITTED ON PAINTED LINE IF APPROVED BY THE ENGINEER. CONSIDER PAVEMENT MARKING DRY OR CURE TIMES AND TRAFFIC VOLUME.

CONES SHALL HAVE A MINIMUM HEIGHT OF 28" FOR WET PAVEMENT MARKINGS.

(1) SIGNS SHALL BE REPEATED APPROXIMATELY EVERY THREE MILES AND AFTER EVERY MAJOR INTERSECTION.

(2) IF CONSTRUCTION WORK ZONE SIGNS ARE IN PLACE, W20-1A OR W21-63 ARE NOT REQUIRED.



MOVING PAVEMENT MARKING OPERATIONS
MULTILANE UNDIVIDED ROADWAY

MOVING PAVEMENT MARKING OPERATION MULTI-LANE UNDIVIDED ROADWAY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2025 — DATE
/S/ Andrew Heidtke — STATE ELECTRICAL ENGINEER
FHWA

6
SDD 15C19-11b

LEGEND

V1 MARKING VEHICLE

V2 SHADOW VEHICLE

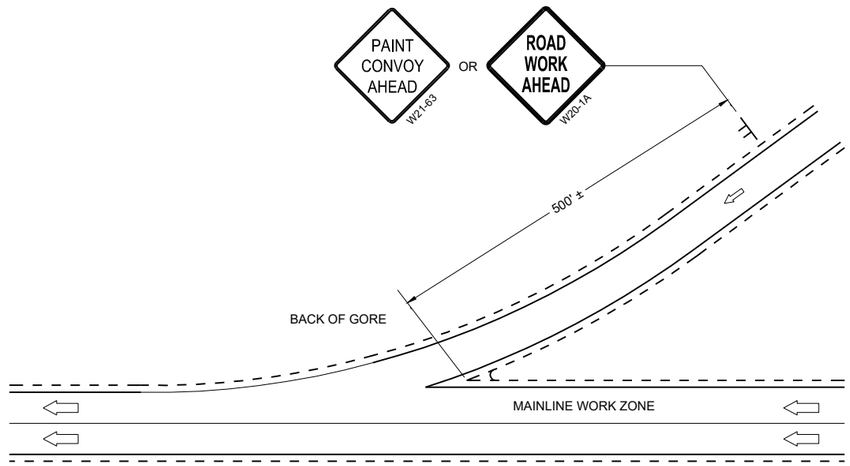
V3 TRAIL VEHICLE

TRUCK MOUNTED ATTENUATOR (TMA)

SIGN ON TEMPORARY SUPPORT

DIRECTION OF TRAFFIC

ARROW PANEL (CAUTION)



GENERAL NOTES

ALL VEHICLES SHALL BE EQUIPPED WITH TWO 360 DEGREE HIGH INTENSITY YELLOW FLASHING LIGHTS OR STROBE LIGHTS AND OPERATED WITH HEADLIGHTS TURNED ON.

ALL VEHICLES SHALL BE EQUIPPED WITH REAR FACING TYPE B OR C FLASHING ARROW PANEL. SIGNS PLACED ON VEHICLES MUST NOT OBSCURE THE ARROW PANEL.

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE SPECIFIED.

DISTANCE BETWEEN VEHICLES MAY VARY ACCORDING TO TERRAIN, SIGHT DISTANCE, PAINT DRYING TIME, AND OTHER FACTORS. WHENEVER ADEQUATE STOPPING SIGHT DISTANCE EXISTS TO THE REAR, SHADOW VEHICLES SHOULD MAINTAIN THE MINIMUM DISTANCE FROM THE WORK VEHICLE AND PROCEED AT THE SAME SPEED AS THE WORK VEHICLE. SHADOW VEHICLES SHOULD SLOW DOWN IN ADVANCE OF VERTICAL AND HORIZONTAL CURVES THAT RESTRICT SIGHT DISTANCE.

WHEN WORK ACTIVITY BLOCKS THE LEFT LANE, REVERSE TRAFFIC CONTROL.

WHEN A RAMP INTERSECTS THE FACILITY ON WHICH THE WORK IS BEING PERFORMED, PROVIDE ADDITIONAL TRAFFIC CONTROLS AS SPECIFIED IN THE CONTRACT OR AS APPROVED BY THE ENGINEER.

USE AN ATTENUATOR ON THE REARMOST VEHICLE THAT BLOCKS ALL OR PART OF THE TRAFFIC LANE.

IF THE SHOULDER IS TOO NARROW TO ACCOMMODATE THE LAST TRAILING VEHICLE, THE VEHICLE SHOULD STRADDLE THE EDGE LINE.

WHEN NO WORK ACTIVITY IS TAKING PLACE, REMOVE OR LAY STATIONARY SIGNS AND SUPPORTS FLAT ON THE GRADE WITH UPRIGHTS ORIENTED PARALLEL TO AND DOWNSTREAM FROM TRAFFIC

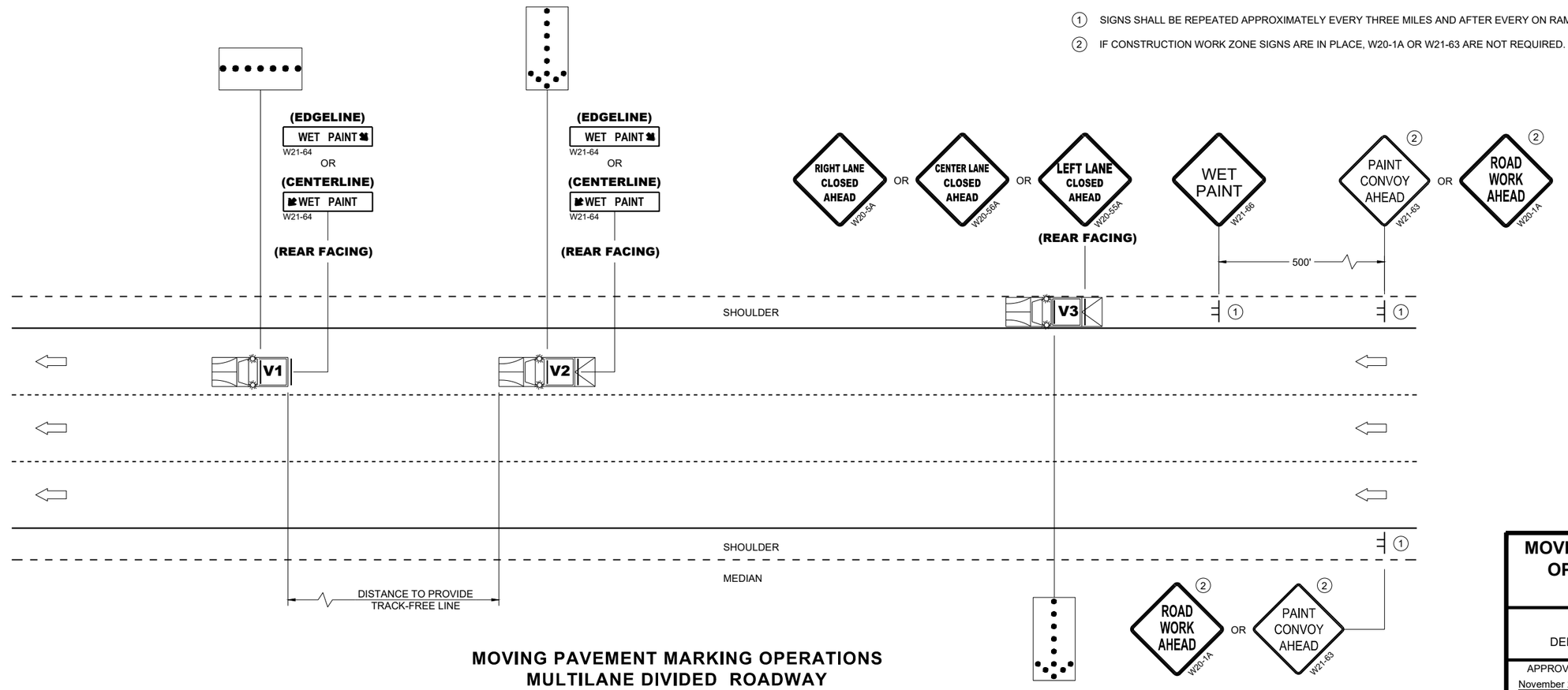
CONES SHOULD BE USED BETWEEN THE MARKING AND SHADOW VEHICLE AT 100 FOOT SPACING. CONES MAY BE OMITTED ON PAINTED LINE IF APPROVED BY THE ENGINEER. CONSIDER PAVEMENT MARKING DRY OR CURE TIMES AND TRAFFIC VOLUME.

CONES SHALL BE A MINIMUM HEIGHT OF 28" FOR WET PAVEMENT MARKINGS

WORKERS SHALL NOT PERFORM WORK FROM ANY SHADOW OR PROTECTION VEHICLES.

(1) SIGNS SHALL BE REPEATED APPROXIMATELY EVERY THREE MILES AND AFTER EVERY ON RAMP.

(2) IF CONSTRUCTION WORK ZONE SIGNS ARE IN PLACE, W20-1A OR W21-63 ARE NOT REQUIRED.



MOVING PAVEMENT MARKING OPERATIONS
MULTILANE DIVIDED ROADWAY

MOVING PAVEMENT MARKING OPERATION MULTI-LANE DIVIDED ROADWAY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2025
DATE

/S/ Andrew Heidtke
STATE ELECTRICAL ENGINEER

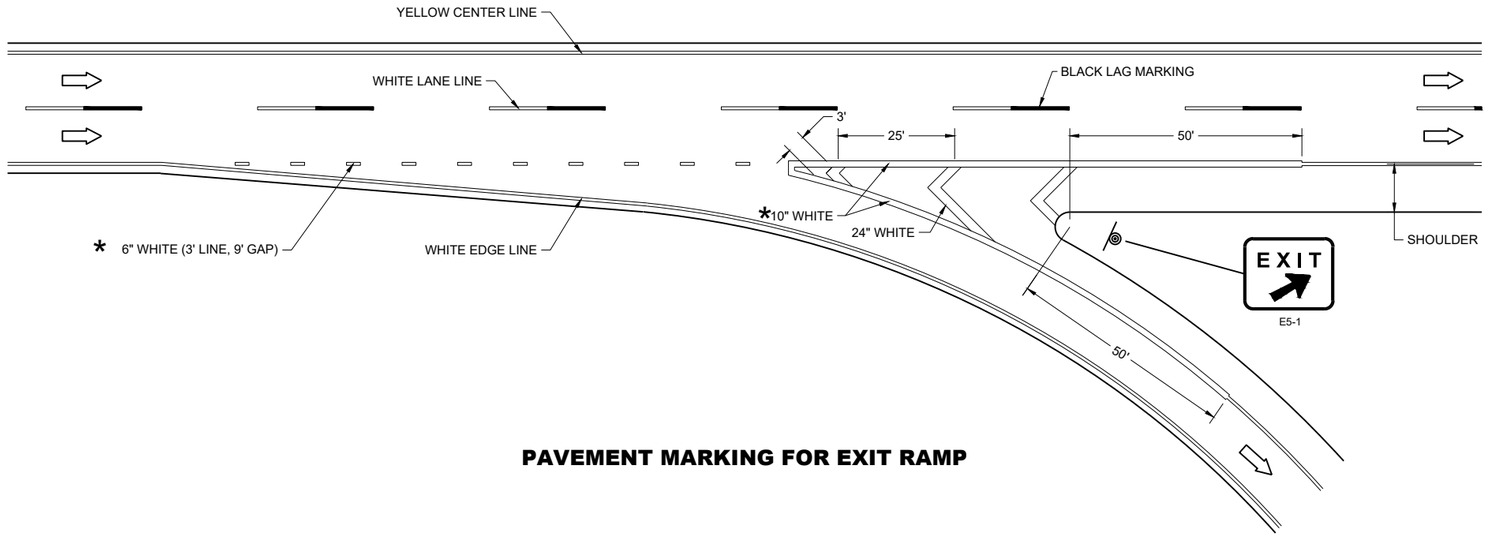
FHWA

6

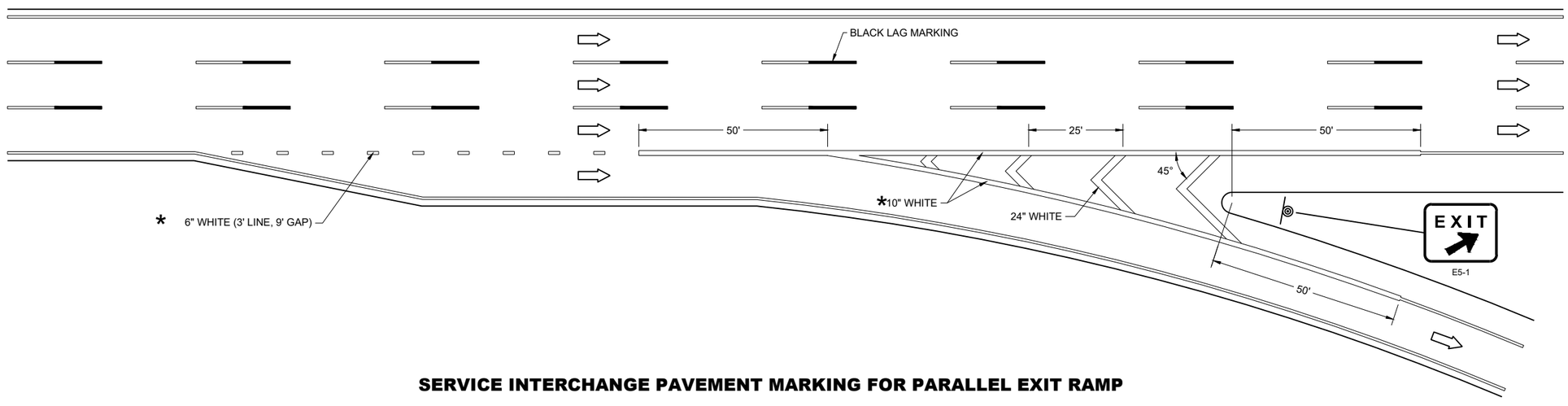
SDD 15C19-11c

6

SDD 15C19-11c



PAVEMENT MARKING FOR EXIT RAMP



SERVICE INTERCHANGE PAVEMENT MARKING FOR PARALLEL EXIT RAMP

GENERAL NOTES

PLACE GROOVE 3 INCHES LEFT OF JOINT.

LEGEND

SIGN ON PERMANENT SUPPORT

DIRECTION OF TRAVEL

*CONFIRM MARKING LINE WIDTH WITH THE MISCELLANEOUS QUANTITIES

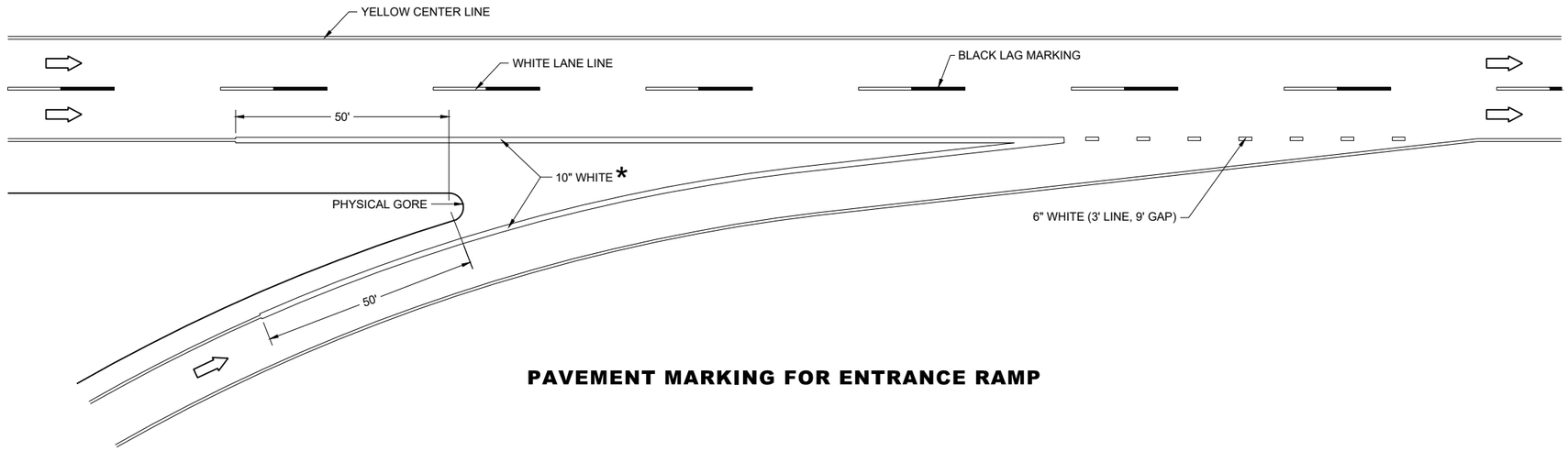
PAVEMENT MARKING, EXIT RAMP AND PARALLEL EXIT RAMP

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6
SDD 15C31-08a

GENERAL NOTES

PLACE GROOVE 3 INCHES LEFT OF JOINT.

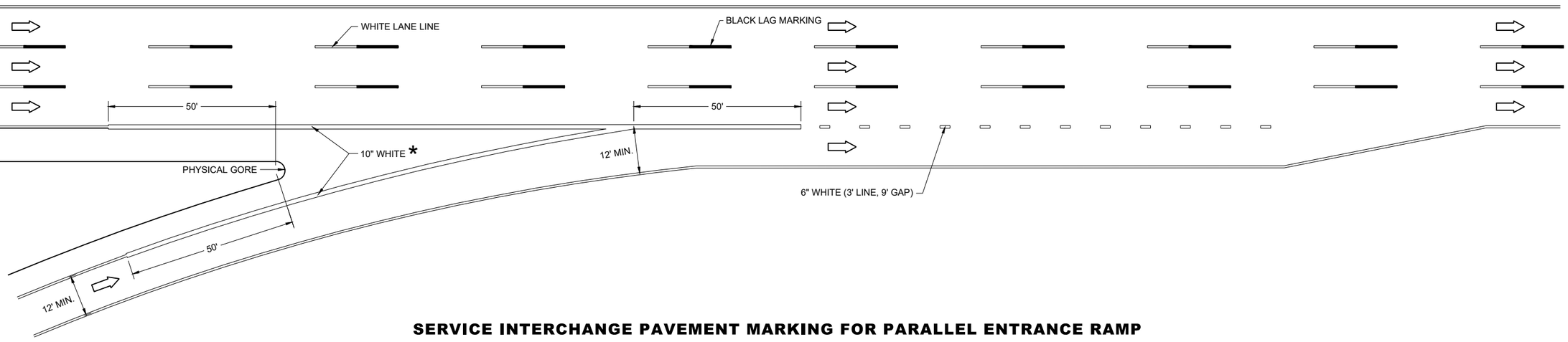


PAVEMENT MARKING FOR ENTRANCE RAMP

LEGEND

DIRECTION OF TRAVEL

*CONFIRM MARKING LINE WIDTH WITH THE MISCELLANEOUS QUANTITIES



SERVICE INTERCHANGE PAVEMENT MARKING FOR PARALLEL ENTRANCE RAMP

6

6

SDD 15C31-08c

SDD 15C31-08c

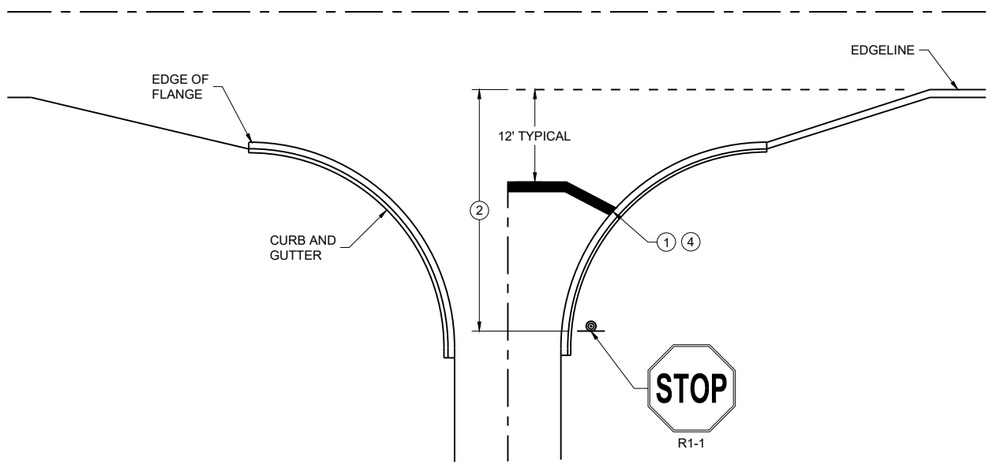
PAVEMENT MARKING, ENTRANCE RAMP AND PARALLEL ENTRANCE RAMP

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

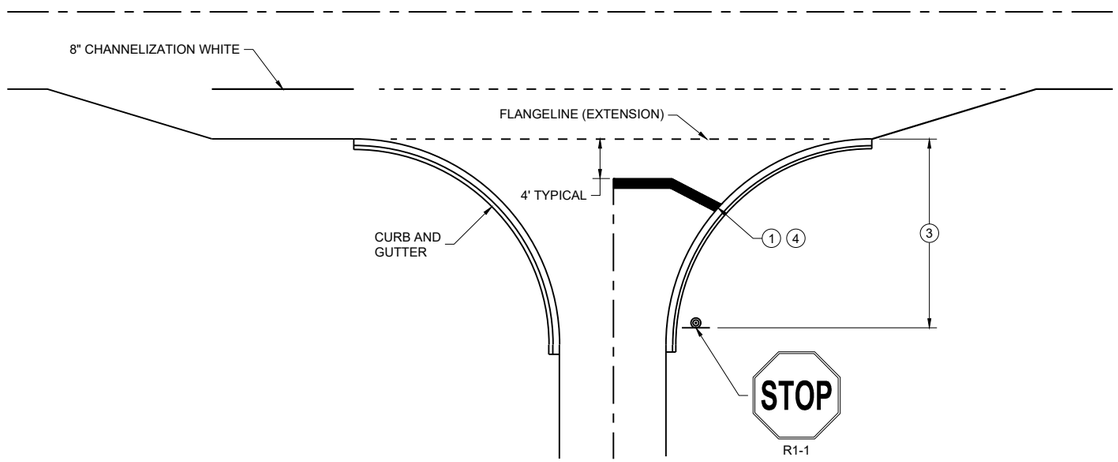
GENERAL NOTES

STOP SIGN SHALL BE PLACED A MINIMUM OF 6 FEET TO A MAXIMUM OF 50 FEET FROM THE EDGELINE LOCATION.

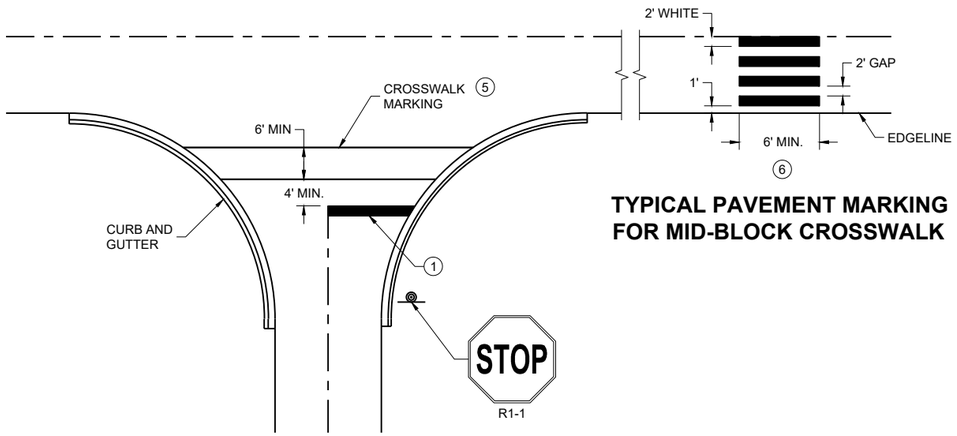
1. 18-INCH STOP LINES MAY BE DELETED OR ADDED BY THE REGION MARKING ENGINEER BASED ON VISIBILITY AND SIGHT LINES.
2. NO STOP LINE IS REQUIRED IF STOP SIGN IS LESS THAN OR EQUAL TO 40 FEET FROM THE EDGELINE.
3. NO STOP LINE IS REQUIRED IF STOP SIGN IS LESS THAN OR EQUAL TO 30 FEET FROM THE FLANGE LINE EXTENSION.
4. MOVE CLOSER TO THE EDGE OF TRAVEL LINE AS NEEDED FOR VISIBILITY AND SIGHT LINES (NO CLOSER THAN 4 FEET).
5. LADDER BAR CROSSWALKS SHOULD ONLY BE USED FOR MID BLOCK CROSSINGS. USE 2 - 6" TRANSVERSE LINES.
6. POSTED SPEED LIMITS OF 40 MPH OR GREATER USE A MINIMUM WIDTH OF 8' FOR MIDBLOCK CROSSWALKS



TYPICAL STOP LINE PAVEMENT MARKING WITH CURB AND GUTTER

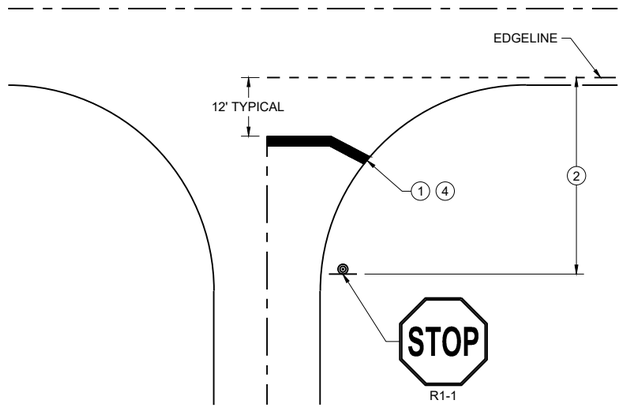


TYPICAL STOP LINE PAVEMENT MARKING FOR SIDE ROADS WITH RIGHT TURN LANE



TYPICAL PAVEMENT MARKING FOR MID-BLOCK CROSSWALK (5)

TYPICAL STOP LINE PAVEMENT MARKING FOR SIDE ROADS WITH CROSSWALK MARKING



TYPICAL STOP LINE PAVEMENT MARKING WITHOUT CURB AND GUTTER

STOP LINE AND CROSSWALK PAVEMENT MARKING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

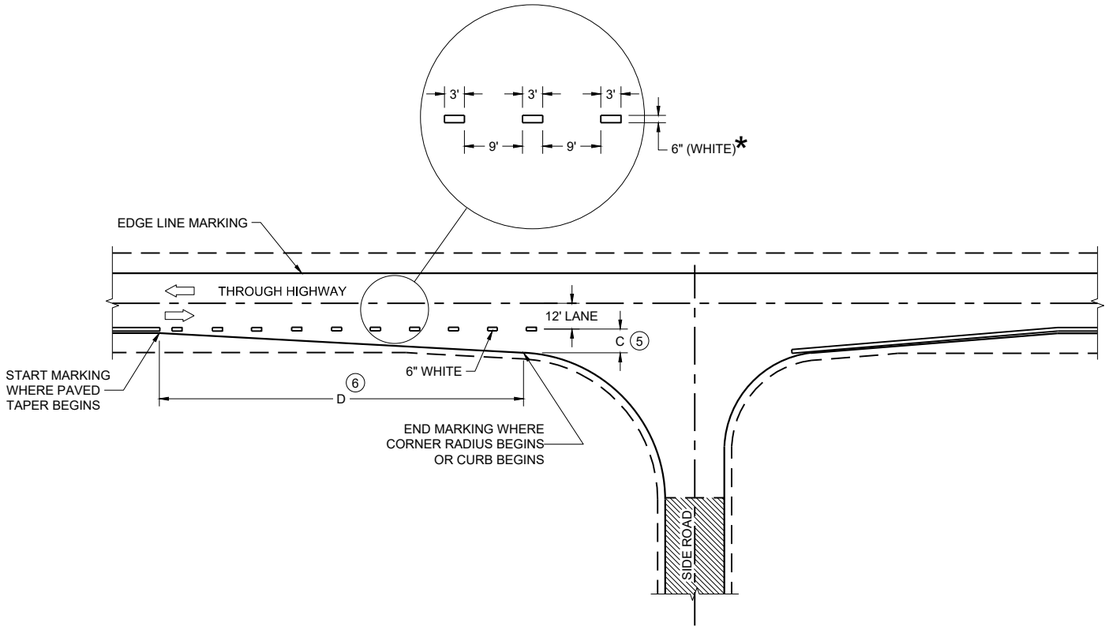
March 2024 — DATE

/S/ Matthew Rauch — STATE SIGNING AND MARKING ENGINEER

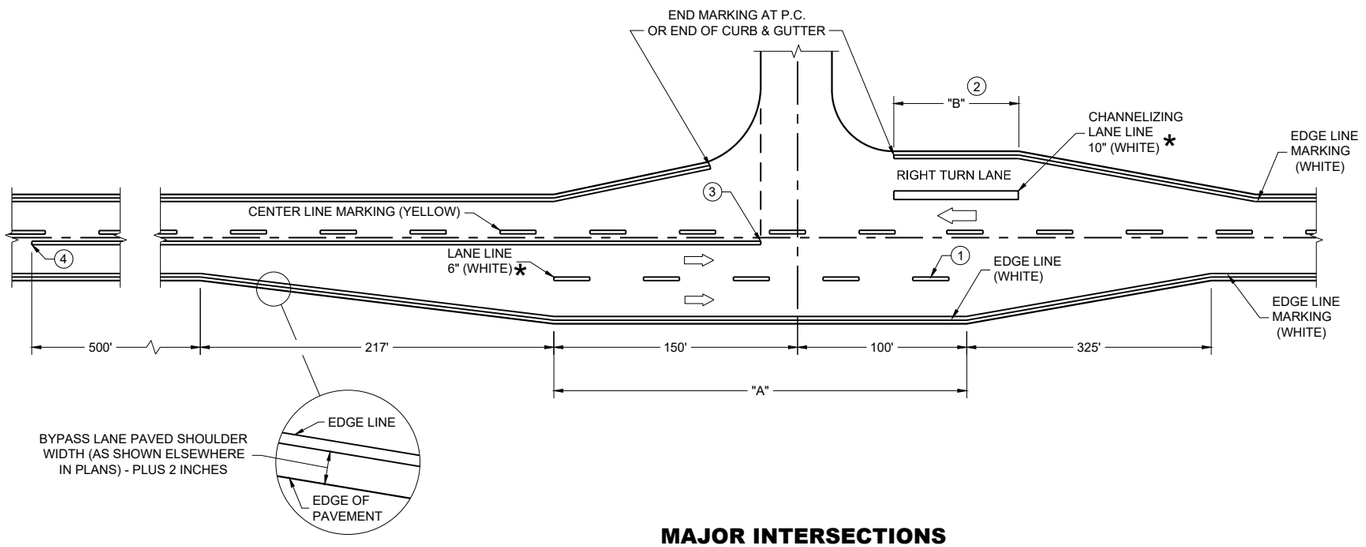
FHWA

6

SDD 15C33-05



MINOR INTERSECTION



MAJOR INTERSECTIONS

(INTERSECTION WITH FULL RIGHT TURN LANE OR BYPASS LANE)

*CONFIRM MARKING LINE WIDTH WITH THE MISCELLANEOUS QUANTITIES

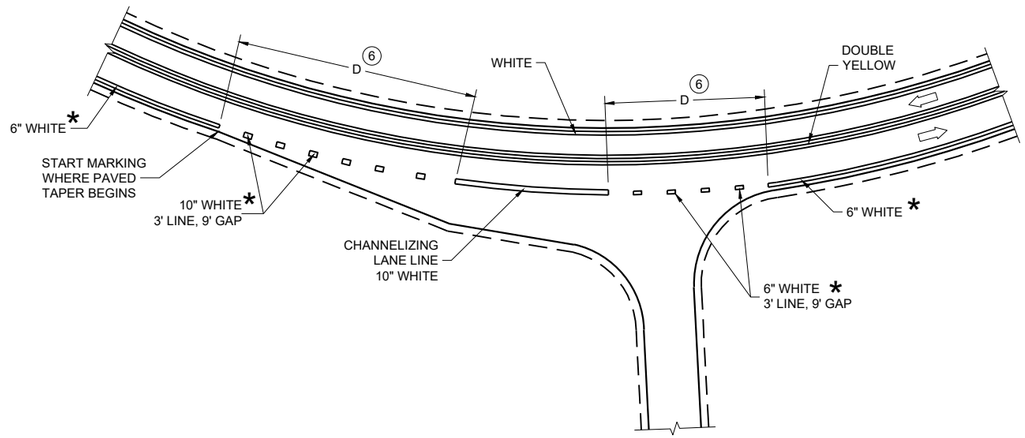
GENERAL NOTES

OMIT EDGE LINES THROUGH INTERSECTIONS. CONTINUE EDGE LINES THROUGH DRIVEWAYS.

1. WHEN DISTANCE "A" IS LESS THAN 250 FEET, OMIT LANE LINE.
2. WHEN DISTANCE "B" IS LESS THAN 100 FEET, OMIT CHANNELIZING LANE LINE.
3. BARRIER LINE ENDS AT SIDE ROAD PAVEMENT / SURFACE EDGE EXTENSION.
4. BARRIER LINE STARTS 500 FEET PRIOR TO THE BYPASS TAPER.
5. WHEN DISTANCE "C" IS LESS THAN 4 FEET, OMIT DOTTED EXTENSION.
6. WHEN DISTANCE "D" IS LESS THAN 50 FEET, OMIT DOTTED EXTENSION.

LEGEND

DIRECTION OF TRAVEL



INTERSECTION ON OUTSIDE OF CURVE

PAVEMENT MARKING (INTERSECTIONS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

GENERAL NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A MINIMUM OF 200 FEET (500 FEET DESIRABLE) CLEARANCE TO EXISTING SIGNS.

THIS LANE CLOSURE IS TYPICAL FOR CLOSING RIGHT LANE - REVERSE FOR CLOSING LEFT LANE.

ALL SIGNS ARE 48" x 48" UNLESS OTHERWISE NOTED.

"WO" IS THE SAME AS "W" EXCEPT THE BACKGROUND IS ORANGE.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED OR AS APPROVED BY THE ENGINEER.

FOR A LANE CLOSURE THAT IS IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS, THE ADVANCED WARNING SIGNS MAY BE MOUNTED ON PORTABLE SUPPORTS.

REMOVE PAVEMENT MARKINGS AND PLACE TEMPORARY PAVEMENT MARKING LINE IF LANE CLOSURE IS TO BE IN PLACE 4 OR MORE CONTINUOUS DAYS AND NIGHTS.

IF THE HORIZONTAL ALIGNMENT IS SUCH THAT A CURVE MAY REQUIRE ADDITIONAL DELINEATION, THE DEVICE SPACING MAY BE DECREASED TO 50 FEET.

WARNING LIGHTS ARE NOT REQUIRED IF THE LANE CLOSURE IS A DAYTIME ONLY OPERATION.

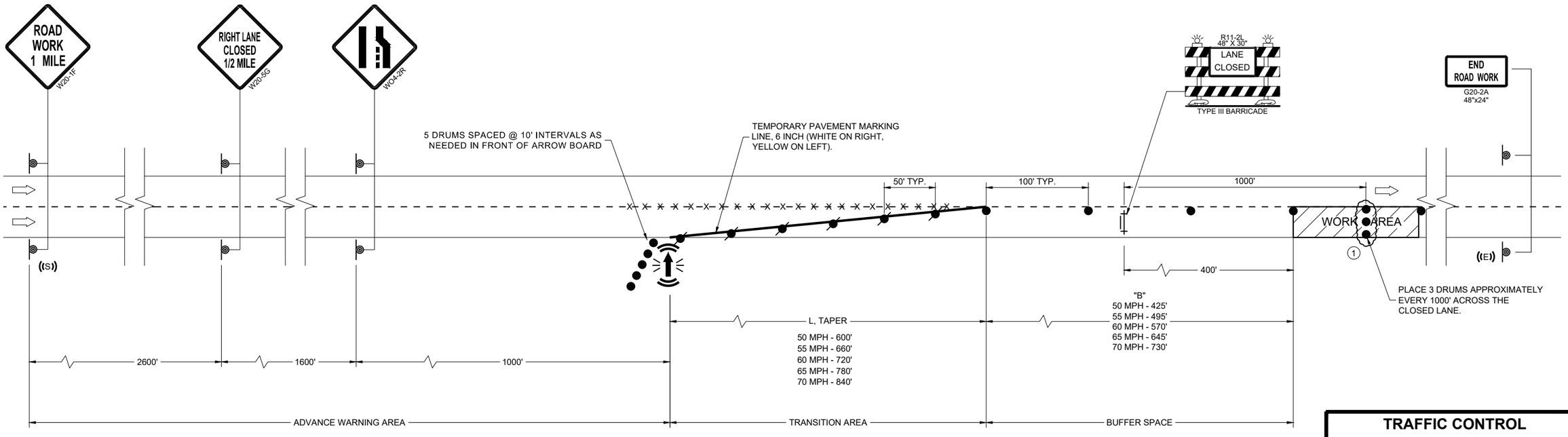
ADJUSTMENTS IN BUFFER SPACE NEED TO BE INCORPORATED WHEN THE LANE CLOSURE OCCURS NEAR AN INTERCHANGE EXIT OR ENTRANCE RAMP OR INTERSECTION. THE LANE CLOSURE MUST TAKE PLACE FAR ENOUGH IN ADVANCE OF AN EXIT OR ENTRANCE RAMP TO STILL ALLOW FOR ADEQUATE BUFFER SPACE. THE MINIMUM LENGTH OF THE BUFFER SPACE BEFORE AN EXIT RAMP SHOULD BE ONE HALF THE LENGTH OF THE TRANSITION AREA. THE ENTRANCE RAMP SHOULD BE FOLLOWED BY THE ORIGINAL BUFFER SPACE LENGTH OF 800 FEET DESIRABLE PRIOR TO ANOTHER TRAFFIC CONTROL CHANGE SUCH AS A CROSSOVER MANEUVER.

CONSIDER ROADWAY GEOMETRICS WHEN LOCATING SIGNS AND ARROW BOARD SO THE DRIVER HAS A CLEAR VIEW OF THE ARROW BOARD AND LANE CLOSURE DRUMS.

(1) DRUMS IN A CLOSED LANE THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY REESTABLISHED UPON COMPLETION OF THE OPERATION, OR FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

LEGEND

- SIGN ON PERMANENT SUPPORT
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
- TYPE III BARRICADE WITH ATTACHED SIGN
- TYPE "A" WARNING LIGHT (FLASHING)
- REMOVING PAVEMENT MARKINGS
- DIRECTION OF TRAFFIC
- WORK AREA
- CONNECTED ARROW BOARD
- WZ START LOCATION MARKER
- WZ END LOCATION MARKER



TRAFFIC CONTROL LANE CLOSURE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2025 — DATE
/S/ Andrew Heidtke — ROADWAY STANDARDS DEVELOPMENT UNIT SUPERVISOR

FHWA

6

SDD 15D12-16a

6

SDD 15D12-16a

LEGEND

- SIGN ON PERMANENT SUPPORT
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
- TYPE III BARRICADE WITH ATTACHED SIGN
- TYPE "A" WARNING LIGHT (FLASHING)
- REMOVING PAVEMENT MARKINGS
- DIRECTION OF TRAFFIC
- WORK AREA
- (S) WZ START LOCATION MARKER
- (E) WZ END LOCATION MARKER
- CONNECTED ARROW BOARD
- PCMS — PORTABLE CHANGEABLE MESSAGE SIGN
- (S) — PORTABLE TRAFFIC SENSOR (PTS)
- FBS — FLASHING BEACON SIGNS

STOPPED OR SLOW TRAFFIC WHEN FLASHING
WO8-76
96" x 48"

GENERAL NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS, INCLUDING FBS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A MINIMUM OF 200 FEET (500 FEET DESIRABLE) CLEARANCE TO EXISTING SIGNS.

THIS LANE CLOSURE IS TYPICAL FOR CLOSING RIGHT LANE - REVERSE FOR CLOSING LEFT LANE.

ALL SIGNS ARE 48" x 48" UNLESS OTHERWISE NOTED.

"WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED OR AS APPROVED BY THE ENGINEER. NO WARNING LIGHTS SHALL BE WORKING ON "COVERED" OR "DOWNED SIGNS.

FOR A LANE CLOSURE THAT IS IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS, THE ADVANCED WARNING SIGNS MAY BE MOUNTED ON PORTABLE SUPPORTS.

REMOVE PAVEMENT MARKINGS AND PLACE TEMPORARY PAVEMENT MARKING LINE IF LANE CLOSURE IS TO BE IN PLACE 4 OR MORE CONTINUOUS DAYS AND NIGHTS. WARNING LIGHTS ARE NOT REQUIRED IF THE LANE CLOSURE IS A DAYTIME ONLY OPERATION.

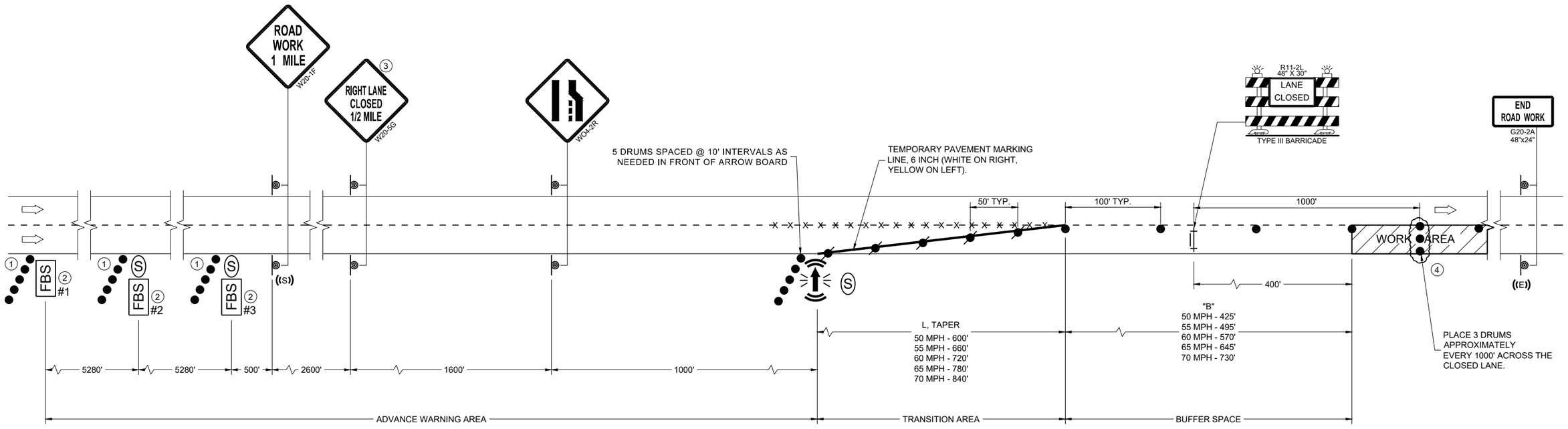
IF THE HORIZONTAL ALIGNMENT IS SUCH THAT A CURVE MAY REQUIRE ADDITIONAL DELINEATION, THE DEVICE SPACING MAY BE DECREASED TO 50 FEET.

ADJUSTMENTS IN BUFFER SPACE NEED TO BE INCORPORATED WHEN THE LANE CLOSURE OCCURS NEAR AN INTERCHANGE EXIT OR ENTRANCE RAMP OR INTERSECTION. THE LANE CLOSURE MUST TAKE PLACE FAR ENOUGH IN ADVANCE OF AN EXIT OR ENTRANCE RAMP TO STILL ALLOW FOR ADEQUATE BUFFER SPACE. THE MINIMUM LENGTH OF THE BUFFER SPACE BEFORE AN EXIT RAMP SHOULD BE ONE HALF THE LENGTH OF THE TRANSITION AREA. THE ENTRANCE RAMP SHOULD BE FOLLOWED BY THE ORIGINAL BUFFER SPACE LENGTH OF 800 FEET DESIRABLE PRIOR TO ANOTHER TRAFFIC CONTROL CHANGE SUCH AS A CROSSOVER MANEUVER.

CONSIDER ROADWAY GEOMETRICS WHEN LOCATING SIGNS AND ARROW BOARD SO THE DRIVER HAS A CLEAR VIEW OF THE ARROW BOARD AND LANE CLOSURE DRUMS.

PORTABLE TRAFFIC SENSOR (PTS) MAY BE MOUNTED ON THE FBS, ARROW BOARD OR OTHER TRAILER DEVICES.

1. 5 DRUMS SPACED AT 10 FOOT INTERVALS AS NEEDED.
2. IF THERE ARE MORE THAN TWO LANES OR IF SPECIFIED IN THE PLANS, PLACE FBS ON BOTH SIDES OF THE ROADWAY.
3. IF THERE IS AN APPROVED TEMPORARY SPEED DECLARATION, ADD WO-3-5 SIGNS 400 FEET AFTER THE W20-5G SIGNS AND ADD R2-1 SIGNS (48"x60") 700 FEET AFTER THE WO3-5 SIGNS. A SPEED LIMIT SIGN SHALL BE LOCATED 1500 FEET BEYOND THE END OF THE ACCELERATION LANE OF EACH ENTRANCE RAMP. PLACE A SPEED LIMIT SIGN A MINIMUM OF EVERY 3 MILES. INCLUDE A "RESUME SPEED LIMIT" SIGN 200 FEET MINIMUM (800 FEET DESIRABLE) BEYOND THE G30-3A "END ROAD WORK" SIGN
4. DRUMS IN A CLOSED LANE THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY REESTABLISHED UPON COMPLETION OF THE OPERATION, OR FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.



TRAFFIC CONTROL, LANE CLOSURE, BASIC TRAFFIC QUEUE WARNING SYSTEM

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2025 — DATE
/S/ Erin Schwark — ROADWAY STANDARDS DEVELOPMENT UNIT SUPERVISOR

FHWA

6

SDD 15D12-16d

LEGEND

SIGN ON PERMANENT SUPPORT

SIGN ON TEMPORARY SUPPORT

TRAFFIC CONTROL DRUM

TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT

REMOVING PAVEMENT MARKING (SEE GENERAL NOTES)

TYPE III BARRICADE WITH ATTACHED SIGN

DIRECTION OF TRAFFIC

GENERAL NOTES

THE INSTALLATIONS SHOWN ON THIS SHEET ARE TYPICAL EXAMPLES AND ARE NOT INTENDED TO REPRESENT ANY PARTICULAR RAMP. AT SPECIFIC FIELD LOCATIONS, SIMILAR INSTALLATIONS SHALL BE USED AND ADJUSTED TO THE GEOMETRICS OF THE RAMP AS COORDINATED WITH THE ENGINEER.

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A MINIMUM OF 200 FEET (500 FEET DESIRABLE) CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.

"WO" IS THE SAME AS "W" EXCEPT THE BACKGROUND IS ORANGE.

SEE SEPARATE LANE CLOSURE DETAIL FOR TYPICAL SPACING OF TYPE III BARRICADES AND R11-2L "LANE CLOSED" SIGNS.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONSECUTIVE DAYS AND NIGHTS OR THAT WILL BE PLACED IN A CLOSED LANE, MAY BE MOUNTED ON PORTABLE SUPPORTS.

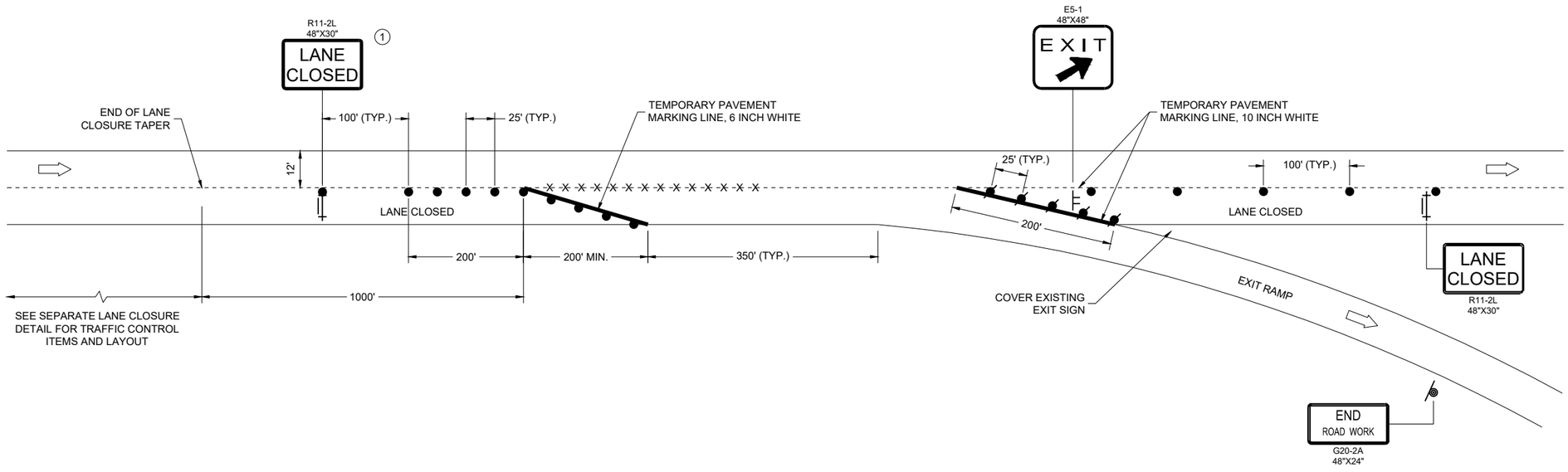
IF INDICATED IN MISCELLANEOUS QUANTITIES, SUBSTITUTE FLEXIBLE TUBULAR MARKERS FOR DRUMS IN THE GORE BETWEEN THE EXIT RAMP AND MAINLINE TRAFFIC.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

REMOVE PAVEMENT MARKINGS AND PLACE TEMPORARY PAVEMENT MARKING LINES IF LANE CLOSURE IS TO BE IN PLACE FOR 4 OR MORE CONTINUOUS DAYS AND NIGHTS.

WARNING LIGHTS ARE NOT REQUIRED IF THE LANE CLOSURE IS A DAYTIME ONLY OPERATION.

(1) IF LOCATED AFTER INITIAL LANE CLOSURE BARRICADE AND "LANE CLOSED" SIGN, USE 3 DRUMS IN PLACE OF BARRICADE AND SIGN.



TRAFFIC CONTROL, PARALLEL EXIT RAMP WITHIN LANE CLOSURE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

February 2025 — DATE

/S/ Andrew Heidtke — WORK ZONE ENGINEER

FHWA

6

SDD 15D15-08e

LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WITH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- SIGN ON PERMANENT SUPPORT
- TYPE "A" WARNING LIGHT (FLASHING)
- DIRECTION OF TRAFFIC

GENERAL NOTES

THIS RAMP CLOSURE DETAIL IS TYPICAL FOR CLOSING A RIGHT SIDE EXIT RAMP. FOR A LEFT SIDE EXIT RAMP, REVERSE THE TRAFFIC CONTROL.

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A MINIMUM OF 200 FEET (500 FEET DESIRABLE) CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

ANY SIGNS, TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

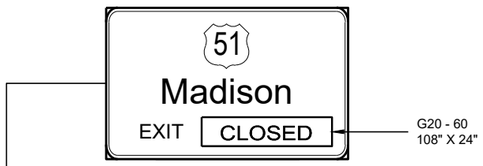
PLACE TEMPORARY PAVEMENT MARKING LINE IF RAMP CLOSURE IS TO BE IN PLACE 4 OR MORE CONTINUOUS DAYS AND NIGHTS.

WORK AREAS WITH A DROP OFF ALONG THE EDGE OF AN OPEN TRAVEL LANE SHALL BE LEVELED WITH TEMPORARY FILL WHEN THE CONTRACTOR IS NOT WORKING ADJACENT TO THE TRAVEL LANE. DRUMS SHALL BE PLACED ENTIRELY OUTSIDE THE TRAVEL LANE, ALLOWING THE FULL UNOBSTRUCTED LANE WIDTH, WHEN WORK IS NOT IN PROGRESS.

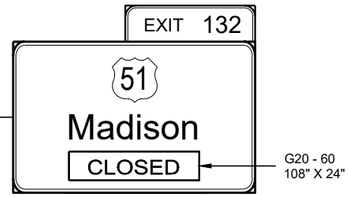
WHERE MEDIAN BARRIER IS IN PLACE, SIGNS SHOWN ON LEFT SIDE OF ROADWAY MAY BE OMITTED FOR RIGHT SIDE RAMP CLOSURES OF LESS THAN 12 - HOUR DURATION.

(1) W20 - 1A AND G20 - 2A SIGNS ARE NOT REQUIRED IF THE RAMP CLOSURE IS WITHIN A LARGER WORK ZONE WHERE THESE SIGNS ARE ALREADY PRESENT.

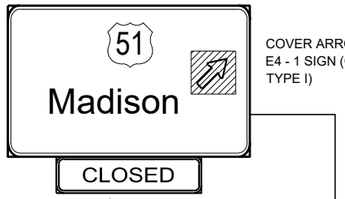
(2) PLACE "RAMP CLOSED BEGINNING" SIGN OR PCMS 7 CALENDAR DAYS PRIOR TO CLOSURE OR AS DIRECTED BY THE ENGINEER. SEE WISCONSIN STANDARD SIGN PLATES FOR SIGN LAYOUT.



OR

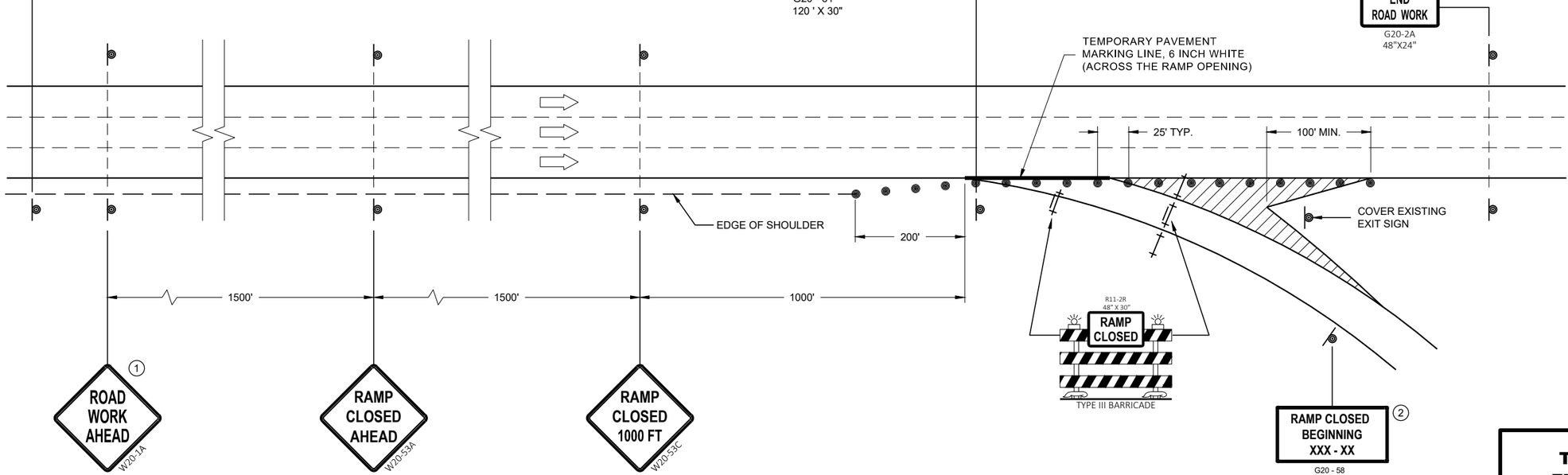


PLACE SIGN G20 - 60 OVER MILEAGE ON EXISTING E1 - 1A SIGN



G20 - 61
120 ' X 30"

COVER ARROW ON EXISTING E4 - 1 SIGN (COVERING SIGNS TYPE I)



OR

PCMS MESSAGING

FRAME 1	FRAME 2
RAMP TO CLOSE	XXXDAY XX XX XX

TRAFFIC CONTROL, EXIT RAMP CLOSURE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2023
DATE

/S/ Andrew Heidtke
ROADWAY STANDARDS DEVE ENGINEER

FHWA

6

SDD 15D16-06

LEGEND

- SIGN ON PERMANENT SUPPORT
- TRAFFIC CONTROL DRUM
- DIRECTION OF TRAFFIC
- CONNECTED ARROW BOARD
- WORK AREA
- (S) WZ START LOCATION MARKER
- (E) WZ END LOCATION MARKER

GENERAL NOTES

THIS DETAIL IS TYPICAL FOR CLOSING THE RIGHT SHOULDER. FOR CLOSING THE LEFT SHOULDER, REVERSE THE TRAFFIC CONTROL.

THIS DETAIL MAY BE USED FOR DIVIDED ROADWAYS WITH ANY NUMBER OF TRAVEL LANES.

ALL SIGNS ARE 48"X48" UNLESS OTHERWISE NOTED.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH THE TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

WHEN A RAMP OR SIDE ROAD INTERSECTS THE FACILITY ON WHICH THE WORK IS BEING PERFORMED, ADDITIONAL TRAFFIC CONTROLS SHALL BE PROVIDED AS SPECIFIED IN THE PLANS AND/OR SPECIAL PROVISIONS OR AS APPROVED BY THE ENGINEER.

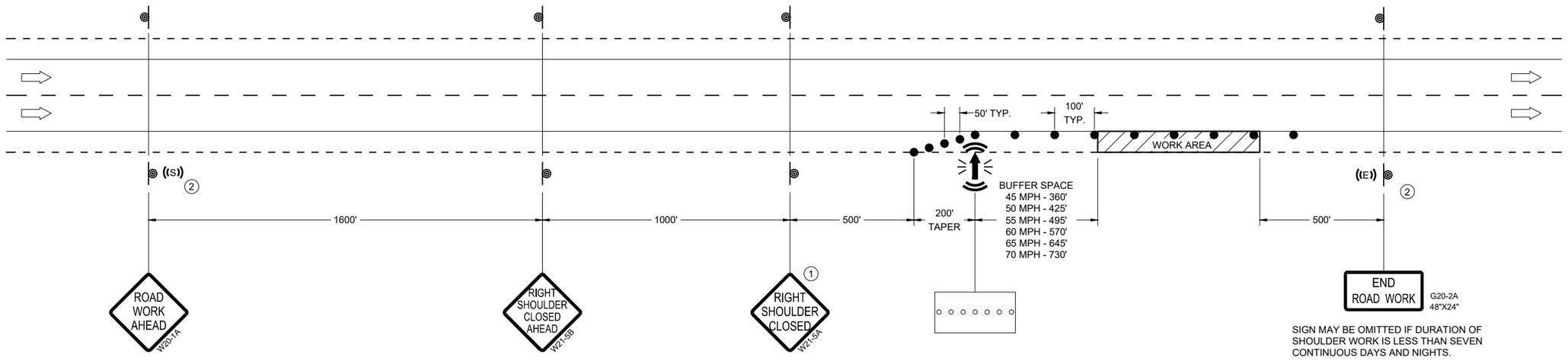
CHANNELIZING DEVICES PLACED ADJACENT TO WORK AREA SHALL BE PULLED BACK FROM THE TRAVEL LANE WHEN WORK IS NOT IN PROGRESS.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

SIGN LAYOUTS SHALL BE IN ACCORDANCE WITH THE FHWA'S MANUAL OF STANDARD HIGHWAY SIGNS OR THE WISCONSIN STANDARD SIGN PLATES.

(1) FOR SHORT DURATION SHOULDER WORK OF LESS THAN ONE HOUR THE W21-5A SIGN MAY BE OMITTED.

(2) IF ALREADY PRESENT WITHIN PROJECT , DO NOT INCLUDE ADDITIONAL DEVICE.



SIGN MAY BE OMITTED IF DURATION OF SHOULDER WORK IS LESS THAN SEVEN CONTINUOUS DAYS AND NIGHTS.

TRAFFIC CONTROL, SHOULDER CLOSURE ON DIVIDED ROADWAY, SPEEDS GREATER THAN 40 MPH

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

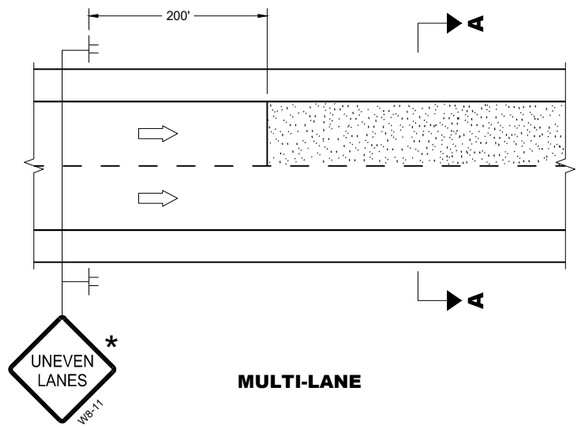
APPROVED

Noveber 2025
DATE

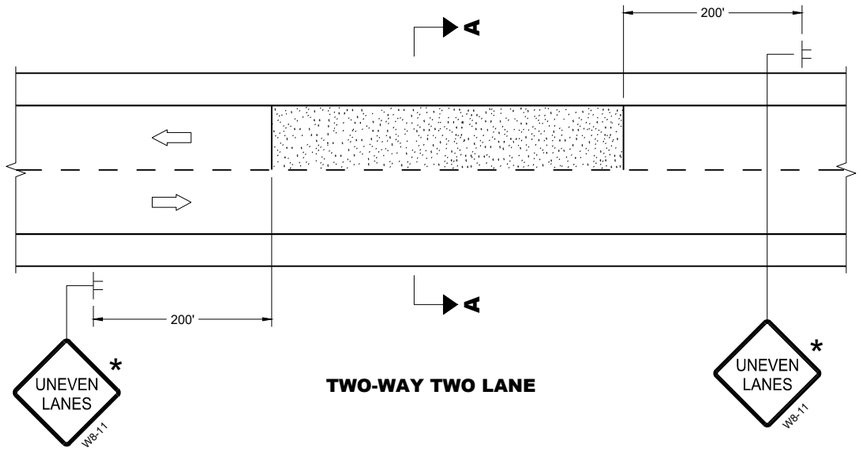
/S/ Andrew Heidtke
STATEWIDE WORK ZONE TRAFFIC SAFETY ENGINEER

FHWA

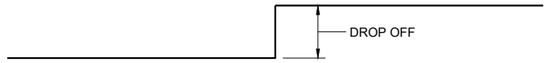
6
SDD 15D27-05



MULTI-LANE

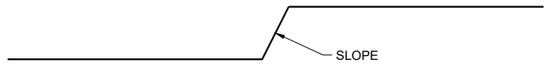


TWO-WAY TWO LANE

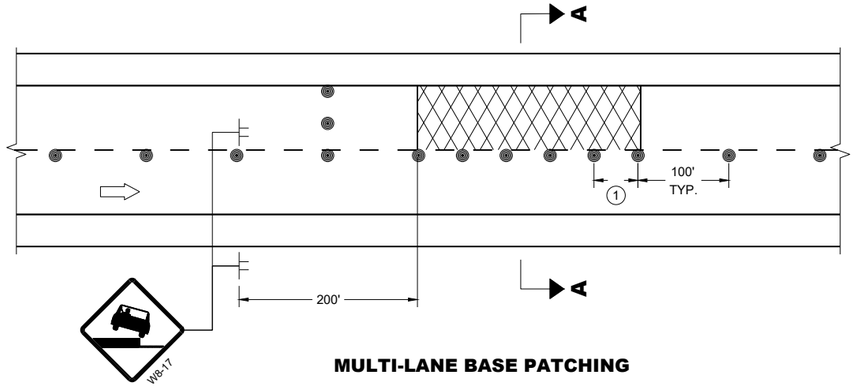


SECTION A - A

OR



SECTION A - A



MULTI-LANE BASE PATCHING

ADJACENT LANE DROP-OFFS

GENERAL NOTES

FOR SPOT LOCATIONS USE ENGINEERING JUDGEMENT WHEN PLACING ADDITIONAL SIGNS.

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.

"WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

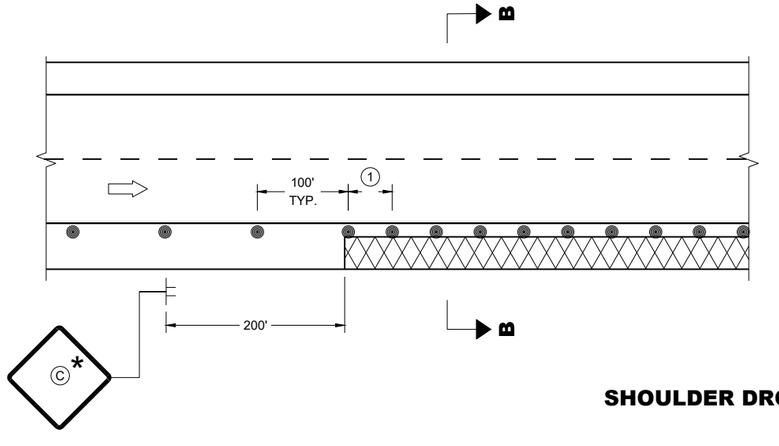
WARNING LIGHTS ARE NOT REQUIRED IF THE LANE CLOSURE IS A DAYTIME ONLY OPERATION.

* IF THE DROP-OFF IS CONTINUOUS ALONG THE PROJECT, PLACE ADDITIONAL SIGNS EVERY 1 MILE AND AFTER EVERY ENTRANCE RAMP.

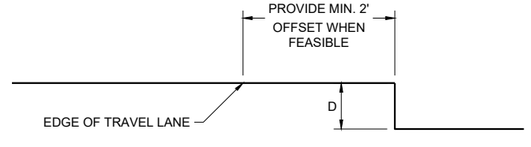
(1) USE CLOSER SPACING WHEN DELINEATING DROP-OFF.

LEGEND

- SIGN ON TEMPORARY SUPPORT
- TRAFFIC CONTROL DRUM
- TYPE III BARRICADE WITH ATTACHED SIGN
- TYPE "A" WARNING LIGHT (FLASHING)
- DIRECTION OF TRAFFIC
- WORK AREA WITH DROP-OFF
- MILLED SURFACE



SHOULDER DROP-OFFS



SECTION B - B

D	SIGN (C)
< 2" WITH A SLOPE STEEPER THAN 3:1	LOW SHOULDER WO8-9
2" < 6" WITH A SLOPE STEEPER THAN 3:1	SHOULDER DROP - OFF W8-9A
	PROVIDE A 3:1 OR FLATTER SLOPE OF MATERIAL ADJACENT TO THE PAVEMENT

TRAFFIC CONTROL, DROP-OFF SIGNING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2025 — DATE
/S/ Andrew Heidtke — WORK ZONE ENGINEER

FHWA

6

SDD 15D39-03

6

SDD 15D39-03

LEGEND

- TYPE III BARRICADE WITH ATTACHED SIGN
- SIGN ON PERMANENT SUPPORT
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
- TYPE "A" WARNING LIGHT (FLASHING)
- DIRECTION OF TRAFFIC
- WORK AREA
- REMOVING PAVEMENT MARKING (SEE GENERAL NOTES)
- CONCRETE BARRIER TEMPORARY PRECAST

POSTED SPEED LIMIT PRIOR TO WORK STARTING (MPH)	SHIFTING TAPER L/2 W, LATERAL OFFSET (FT)					BUFFER SPACE (B) FEET
	10	11	12	13	14	
50	250	275	300	325	350	425
55	275	303	330	358	385	495
60	300	330	360	390	420	570
65	325	358	390	423	455	645
70	350	385	420	455	490	730

GENERAL NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A MINIMUM OF 200 FEET, (500 FEET DESIRABLE) DISTANCE TO EXISTING SIGNS.

THIS LANE CLOSURE IS TYPICAL FOR LANE SHIFT RIGHT - REVERSE FOR SHIFTING LEFT.

ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED.

"WO" IS THE SAME AS "W" EXCEPT THE BACKGROUND IS ORANGE.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER. NO WARNING LIGHTS SHALL BE WORKING ON ANY "COVERED" OR "DOWNED" SIGNS.

CONSIDER GEOMETRICS WHEN LOCATING SIGNS AND ARROW BOARDS SO THE DRIVER HAS A CLEAR VIEW OF THE ARROW BOARD AND LANE CLOSURE DRUMS FOR A MINIMUM 1500 FEET IN FRONT OF DRUMS.

FOR A LANE CLOSURE THAT IS IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS, THE ADVANCED WARNING SIGNS MAY BE MOUNTED ON PORTABLE SUPPORTS.

REMOVE PAVEMENT MARKINGS AND PLACE TEMPORARY PAVEMENT MARKING LINES IF LANE CLOSURE IS TO BE IN PLACE FOR 4 OR MORE CONTINUOUS DAYS AND NIGHTS.

WARNING LIGHTS ARE NOT REQUIRED IF THE LANE CLOSURE IS A DAYTIME ONLY OPERATION.

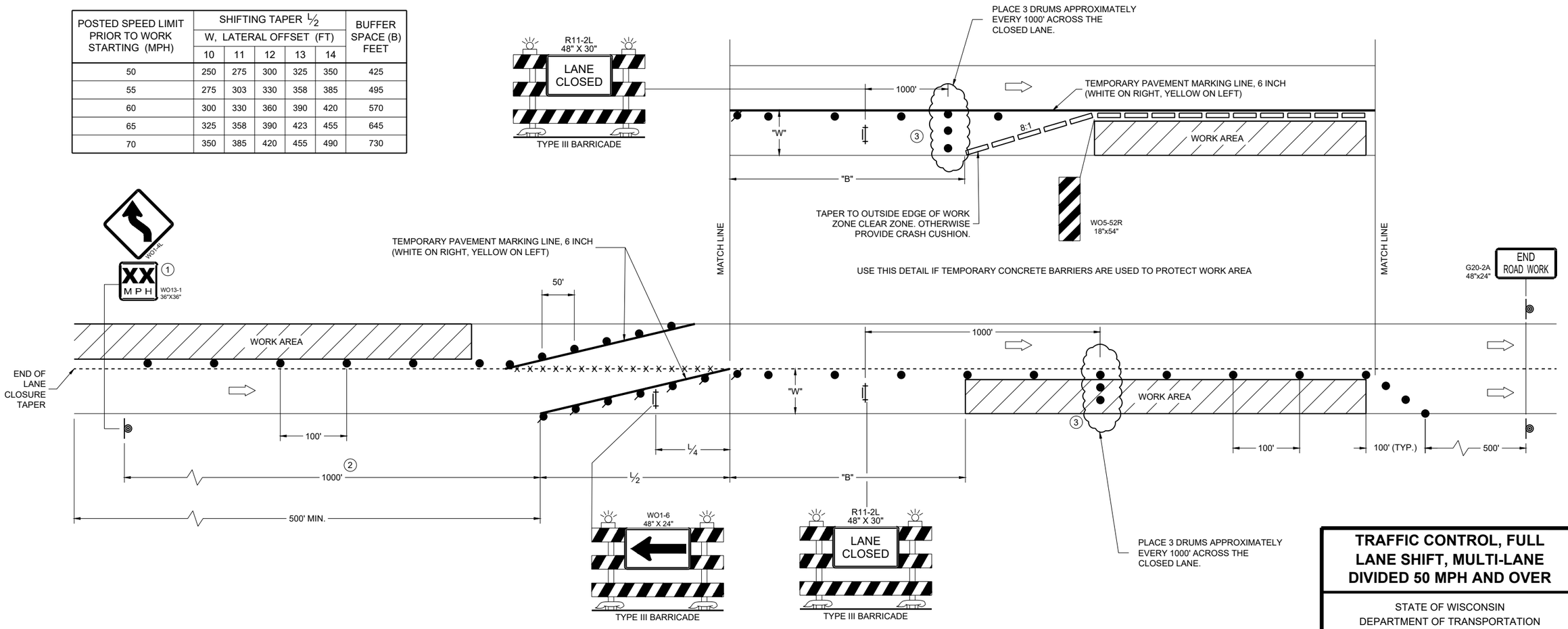
IF THE HORIZONTAL ALIGNMENT IS SUCH THAT A CURVE MAY REQUIRE ADDITIONAL DELINEATION, THE DEVICE SPACING MAY BE DECREASED TO 50 FEET.

ADJUSTMENTS IN BUFFER SPACE NEED TO BE INCORPORATED WHEN THE LANE SHIFT OCCURS NEAR AN INTERCHANGE EXIT OR ENTRANCE RAMP. THE LANE SHIFT MUST TAKE PLACE FAR ENOUGH IN ADVANCE OF AN EXIT OR ENTRANCE RAMP TO STILL ALLOW FOR ADEQUATE BUFFER SPACE. THE MINIMUM LENGTH OF THE BUFFER SPACE BEFORE AN EXIT RAMP SHOULD BE THE LENGTH OF ½ THE TRANSITION AREA. THE ENTRANCE RAMP SHOULD BE FOLLOWED BY THE ORIGINAL BUFFER SPACE LENGTH OF 800 FEET DESIRABLE PRIOR TO ANOTHER TRAFFIC CONTROL CHANGE SUCH AS A CROSSOVER MANEUVER.

(1) USE ONLY IF DESIGN SPEED IS 10 MPH BELOW POSTED SPEED.

(2) IF BEGINNING OF LANE SHIFT IS 1200' OF LESS FROM THE END OF THE LANE CLOSURE TAPER, PLACE THE WO1-4L SIGN 200 FEET AFTER THE END OF THE LANE CLOSURE TAPER.

(3) DRUMS IN A CLOSED LANE THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY REESTABLISHED UPON COMPLETION OF THE OPERATION, OR FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.



TRAFFIC CONTROL, FULL LANE SHIFT, MULTI-LANE DIVIDED 50 MPH AND OVER

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2025 — DATE
/S/ Andrew Heidtke — WORK ZONE ENGINEER

FHWA

6

SDD 15D40-07b

6

SDD 15D40-07b

LEGEND

- TYPE III BARRICADE WITH ATTACHED SIGN
- SIGN ON PERMANENT SUPPORT
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
- TYPE "A" WARNING LIGHT (FLASHING)
- DIRECTION OF TRAFFIC
- WORK AREA
- REMOVING PAVEMENT MARKING (SEE GENERAL NOTES)
- CONCRETE BARRIER TEMPORARY PRECAST

GENERAL NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A MINIMUM OF 200 FEET, (500 FEET DESIRABLE) DISTANCE TO EXISTING SIGNS.

THIS LANE CLOSURE IS TYPICAL FOR LANE SHIFT LEFT - REVERSE FOR SHIFTING RIGHT.

ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED.

"WO" IS THE SAME AS "W" EXCEPT THE BACKGROUND IS ORANGE.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER. NO WARNING LIGHTS SHALL BE WORKING ON ANY "COVERED" OR "DOWNED" SIGNS.

CONSIDER GEOMETRICS WHEN LOCATING SIGNS AND ARROW BOARDS SO THE DRIVER HAS A CLEAR VIEW OF THE ARROW BOARD AND LANE CLOSURE DRUMS FOR A MINIMUM 1500 FEET IN FRONT OF DRUMS.

FOR A LANE CLOSURE THAT IS IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS, THE ADVANCED WARNING SIGNS MAY BE MOUNTED ON PORTABLE SUPPORTS.

REMOVE PAVEMENT MARKINGS AND PLACE TEMPORARY PAVEMENT MARKING LINES IF LANE CLOSURE IS TO BE IN PLACE FOR 4 OR MORE CONTINUOUS DAYS AND NIGHTS.

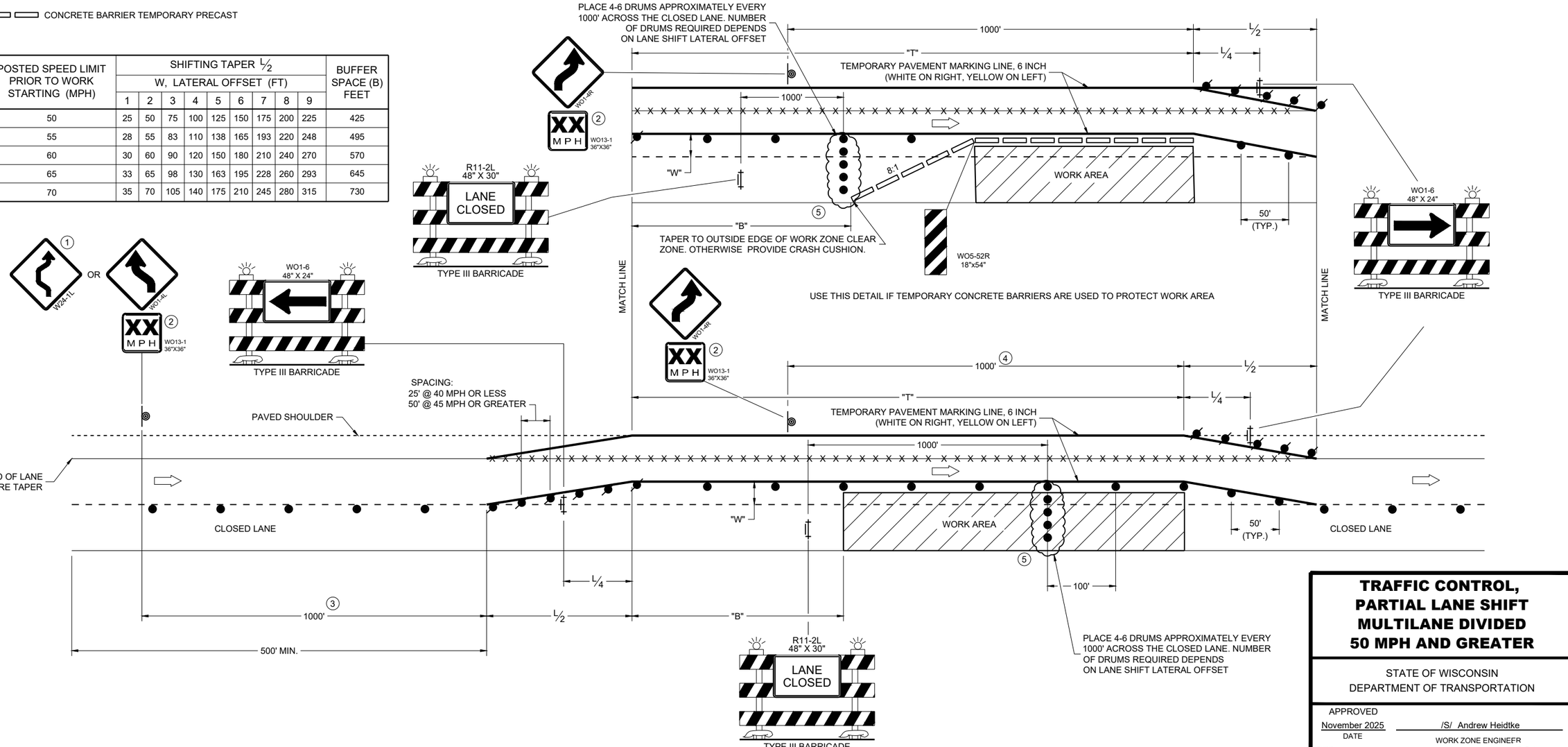
WARNING LIGHTS ARE NOT REQUIRED IF THE LANE CLOSURE IS A DAYTIME ONLY OPERATION.

IF THE HORIZONTAL ALIGNMENT IS SUCH THAT A CURVE MAY REQUIRE ADDITIONAL DELINEATION, THE DEVICE SPACING MAY BE DECREASED TO 50 FEET.

ADJUSTMENTS IN BUFFER SPACE NEED TO BE INCORPORATED WHEN THE LANE SHIFT OCCURS NEAR AN INTERCHANGE EXIT OR ENTRANCE RAMP. THE LANE SHIFT MUST TAKE PLACE FAR ENOUGH IN ADVANCE OF AN EXIT OR ENTRANCE RAMP TO STILL ALLOW FOR ADEQUATE BUFFER SPACE. THE MINIMUM LENGTH OF THE BUFFER SPACE BEFORE AN EXIT RAMP SHOULD BE 1/2 THE LENGTH OF THE TRANSITION AREA. THE ENTRANCE RAMP SHOULD BE FOLLOWED BY THE ORIGINAL BUFFER SPACE LENGTH OF 800 FEET DESIRABLE PRIOR TO ANOTHER TRAFFIC CONTROL CHANGE SUCH AS A CROSSOVER MANEUVER.

1. USE ONLY WHEN T<600', OMIT WO1-4R.
2. IF NEEDED, USE ONLY IF DESIGN SPEED IS 10 MPH BELOW POSTED SPEED.
3. IF THE BEGINNING OF LANE SHIFT TAPER IS 1200 FEET OR LESS FROM END OF LANE CLOSURE TAPER, PLACE THE WO1-4L SIGN 200 FEET AFTER THE END OF THE LANE CLOSURE TAPER.
4. IF THE BEGINNING OF THE SECOND LANE SHIFT TAPER IS 1200 FEET OR LESS FROM END OF THE FIRST LANE CLOSURE TAPER, PLACE THE WO1-4L SIGN 200 FEET AFTER THE END OF THE FIRST LANE CLOSURE TAPER.
5. DRUMS IN A CLOSED LANE THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY REESTABLISHED UPON COMPLETION OF THE OPERATION, OR FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

POSTED SPEED LIMIT PRIOR TO WORK STARTING (MPH)	SHIFTING TAPER 1/2 W, LATERAL OFFSET (FT)									BUFFER SPACE (B) FEET
	1	2	3	4	5	6	7	8	9	
50	25	50	75	100	125	150	175	200	225	425
55	28	55	83	110	138	165	193	220	248	495
60	30	60	90	120	150	180	210	240	270	570
65	33	65	98	130	163	195	228	260	293	645
70	35	70	105	140	175	210	245	280	315	730



TRAFFIC CONTROL, PARTIAL LANE SHIFT MULTILANE DIVIDED 50 MPH AND GREATER

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2025 — DATE
/S/ Andrew Heidtke — WORK ZONE ENGINEER

FHWA

6
SDD 15D40-07d

LEGEND

TYPE III BARRICADE WITH ATTACHED SIGN

SIGN ON PERMANENT SUPPORT

TRAFFIC CONTROL DRUM

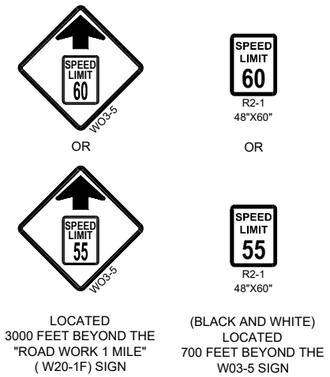
DIRECTION OF TRAFFIC

CONCRETE BARRIER TEMPORARY PRECAST

TYPE "A" WARNING LIGHT (FLASHING)

WORK AREA

FULL SHIFT							
SHIFTING TAPER L/2							
POSTED SPEED (MPH)	W, LATERAL OFFSET (FT)						
	10	11	12	13	14	15	16
45	225	248	270	293	315	338	360
50	250	275	300	325	350	375	400
55	275	303	330	358	385	413	440
60	300	330	360	390	420	450	480
65	325	358	390	423	455	488	520
70	350	385	420	455	490	525	560



IF THE REGULATORY SPEED HAS BEEN REDUCED, A SPEED LIMIT SIGN SHALL BE LOCATED 1500 FEET BEYOND THE END OF THE ACCELERATION LANE OF EACH ENTRANCE RAMP. PLACE A SPEED LIMIT SIGN INCORPORATED A MINIMUM OF EVERY 3 MILES.

GENERAL NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A MINIMUM OF 200 FEET, (500 FEET DESIRABLE) DISTANCE TO EXISTING SIGNS.

THIS LANE CLOSURE IS TYPICAL FOR LANE SHIFT RIGHT - REVERSE FOR SHIFTING LEFT.

ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED.

"WO" IS THE SAME AS "W" EXCEPT THE BACKGROUND IS ORANGE.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

FOR A LANE CLOSURE THAT IS IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS, THE ADVANCED WARNING SIGNS MAY BE MOUNTED ON PORTABLE SUPPORTS.

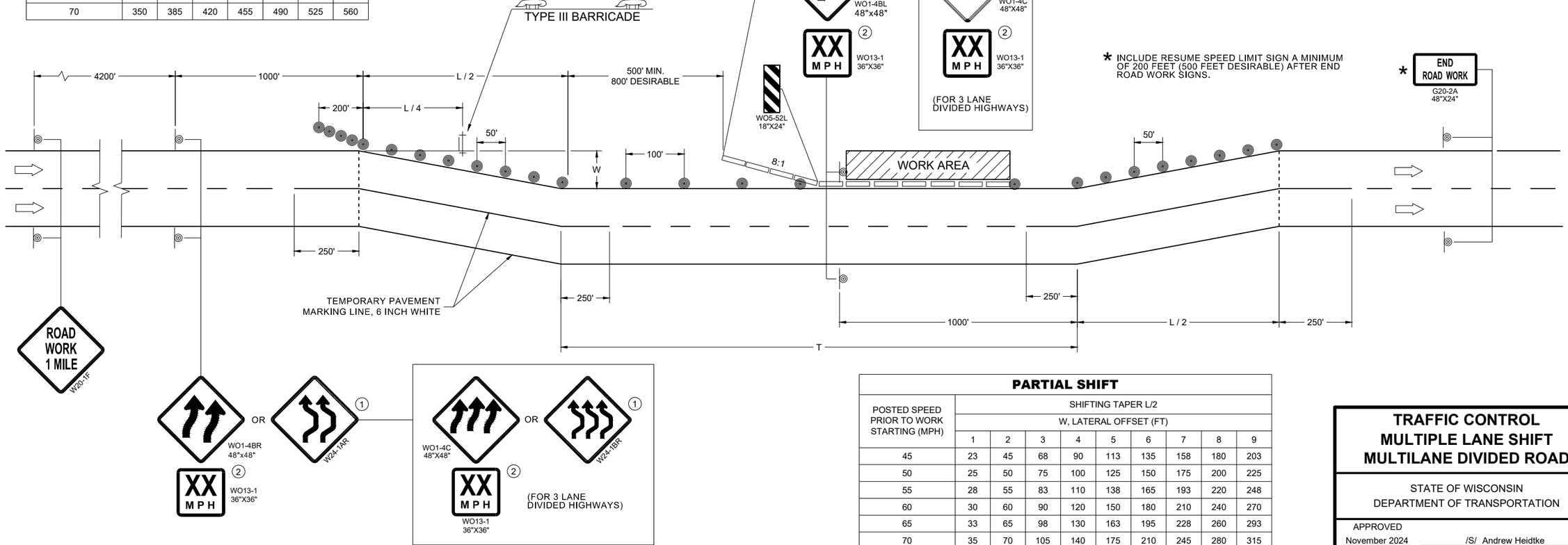
REMOVE PAVEMENT MARKINGS AND PLACE TEMPORARY PAVEMENT MARKING LINES IF LANE CLOSURE IS TO BE IN PLACE FOR 4 OR MORE CONTINUOUS DAYS AND NIGHTS.

IF THE HORIZONTAL ALIGNMENT IS SUCH THAT A CURVE MAY REQUIRE ADDITIONAL DELINEATION, THE DEVICE SPACING MAY BE DECREASED TO 50 FEET.

ADJUSTMENTS IN BUFFER SPACE NEED TO BE INCORPORATED WHEN THE LANE SHIFT OCCURS NEAR AN INTERCHANGE EXIT OR ENTRANCE RAMP. THE LANE SHIFT MUST TAKE PLACE FAR ENOUGH IN ADVANCE OF AN EXIT OR ENTRANCE RAMP TO STILL ALLOW FOR ADEQUATE BUFFER SPACE. THE MINIMUM LENGTH OF THE BUFFER SPACE BEFORE AN EXIT RAMP SHOULD BE 1/2 THE LENGTH OF THE TRANSITION AREA. THE ENTRANCE RAMP SHOULD BE FOLLOWED BY THE ORIGINAL BUFFER SPACE LENGTH OF 800 FEET DESIRABLE PRIOR TO ANOTHER TRAFFIC CONTROL CHANGE SUCH AS A CROSSOVER MANEUVER.

(1) USE ONLY WHEN T < 600', OMIT WO1-4C.

(2) IF NEEDED, USE ONLY IF DESIGN SPEED IS 10 MPH BELOW POSTED SPEED.



PARTIAL SHIFT									
POSTED SPEED PRIOR TO WORK STARTING (MPH)	SHIFTING TAPER L/2								
	W, LATERAL OFFSET (FT)								
	1	2	3	4	5	6	7	8	9
45	23	45	68	90	113	135	158	180	203
50	25	50	75	100	125	150	175	200	225
55	28	55	83	110	138	165	193	220	248
60	30	60	90	120	150	180	210	240	270
65	33	65	98	130	163	195	228	260	293
70	35	70	105	140	175	210	245	280	315

TRAFFIC CONTROL
MULTIPLE LANE SHIFT
MULTILANE DIVIDED ROAD

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2024 — DATE
/S/ Andrew Heidtke — ROADWAY STANDARDS DEVELOPMENT ENGINEER

FHWA

6 SDD 15D41-05a

LEGEND

- SIGN ON TEMPORARY SUPPORT
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
- TYPE III BARRICADE
- TYPE III BARRICADE WITH ATTACHED SIGN
- TYPE "A" WARNING LIGHT (FLASHING)
- REMOVING PAVEMENT MARKINGS
- DIRECTION OF TRAFFIC
- WORK AREA
- CONNECTED ARROW BOARD
- WZ START LOCATION MARKER
- WZ END LOCATION MARKER

GENERAL NOTES

RIGHT CLOSURE SHOWN (LEFT LANE CLOSURE SIMILAR)

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

WARNING LIGHTS ARE NOT REQUIRED IF THE LANE CLOSURE IS PART OF A DAYTIME ONLY OPERATION.

ALL SIGNS ARE 48" x 48" UNLESS OTHERWISE NOTED.

"WO" SIGN IS THE SAME AS "W" SIGN EXCEPT THE BACKGROUND IS ORANGE.

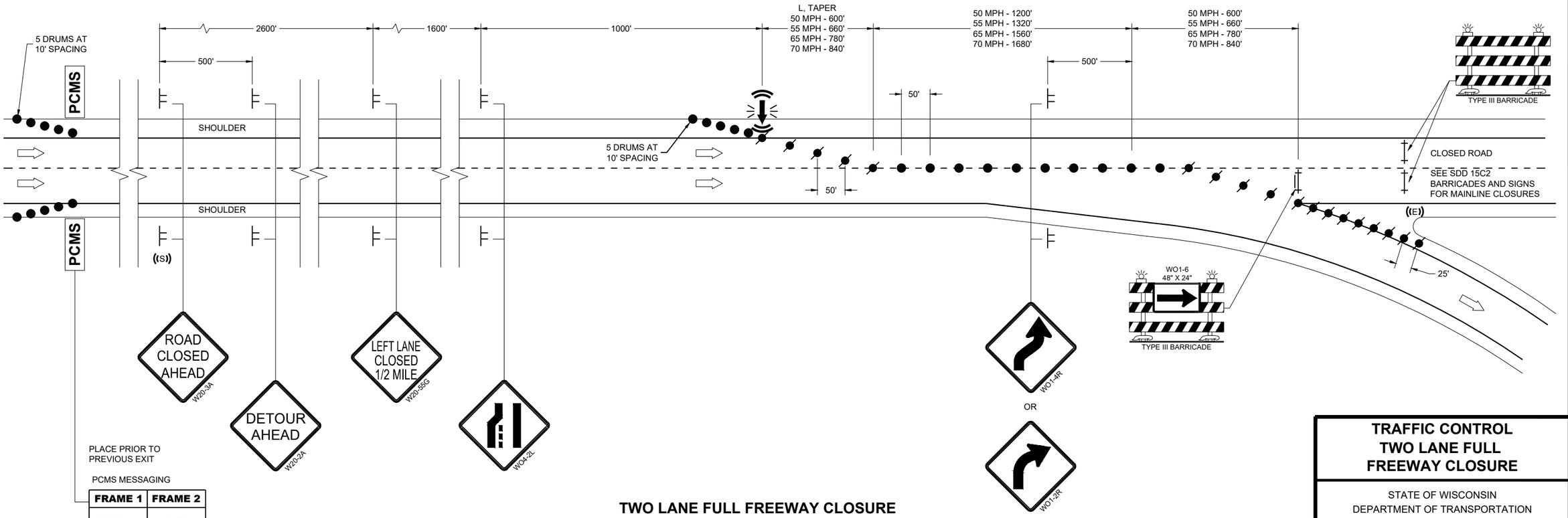
WHEN A RAMP INTERSECTS THE FACILITY ON WHICH THE WORK IS BEING PERFORMED, ADDITIONAL TRAFFIC CONTROL SHALL BE PROVIDED AS SPECIFIED IN THE PLANS AND / OR THE SPECIAL PROVISIONS OR AS DIRECTED BY THE ENGINEER.

PLACE A TYPE III BARRICADE APPROXIMATELY EVERY 1000' ACROSS EACH CLOSED LANE TO HELP REINFORCE THE DRUM LINE.

CONSIDER ROADWAY GEOMETRICS WHEN LOCATING SIGNS AND ARROW BOARD SO THE DRIVER HAS A CLEAR VIEW OF THE ARROW BOARD AND LANE CLOSURE DRUMS.

REFER TO DETOUR ROUTES FOR TRAFFIC GUIDANCE SIGNING.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED OR AS APPROVED BY THE ENGINEER. NO WARNING LIGHTS SHALL BE WORKING ON "COVERED" OR "DOWNED" SIGNS.



PLACE PRIOR TO PREVIOUS EXIT

PCMS MESSAGING

FRAME 1	FRAME 2
FREEWAY CLOSED	EXIT AHEAD

TWO LANE FULL FREEWAY CLOSURE

TRAFFIC CONTROL
TWO LANE FULL
FREEWAY CLOSURE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2025 — DATE
/S/ Andrew Heidtke

FHWA

6

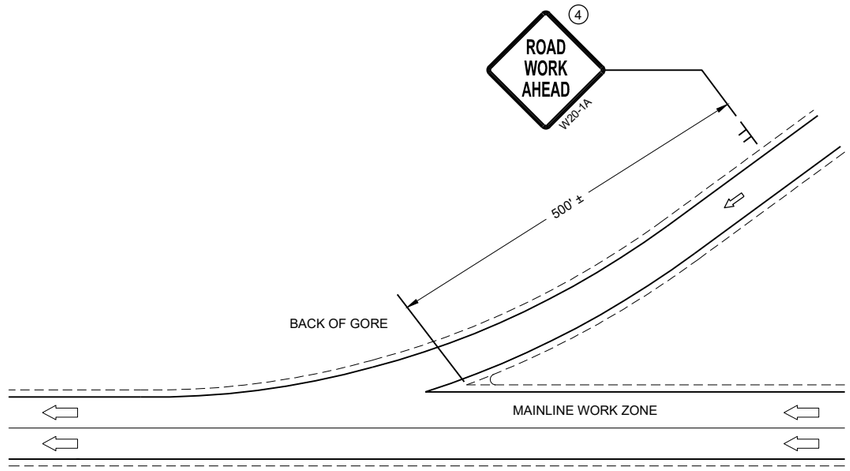
SDD 15D42-04

6

SDD 15D42-04

LEGEND

- V1 SHADOW VEHICLE 1
- V2 SHADOW VEHICLE 2
- V3 ADVANCE WARNING TRUCK
- ● TRAFFIC CONTROL DRUM
- TRUCK MOUNTED ATTENUATOR (TMA)
- SIGN ON TEMPORARY SUPPORT
- DIRECTION OF TRAFFIC
- FLASHING ARROW PANEL (MERGE)
- FLASHING ARROW PANEL (CAUTION)
- PCMS PORTABLE CHANGEABLE MESSAGE SIGN
- WORK AREA



GENERAL NOTES

SHORT DURATION IS WORK THAT OCCUPIES A LOCATION UP TO 1 HOUR.

MOBILE IS WORK THAT MOVES INTERMITTENTLY OR CONTINUOUSLY.

ALL VEHICLES SHALL BE EQUIPPED WITH TWO 360 DEGREE HIGH INTENSITY YELLOW FLASHING LIGHTS OR STROBE LIGHTS AND OPERATED WITH HEADLIGHTS TURNED ON.

ALL VEHICLES SHALL BE EQUIPPED WITH REAR FACING TYPE B OR C FLASHING ARROW PANEL. SIGNS PLACED ON VEHICLES MUST NOT OBSCURE THE ARROW PANEL.

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE SPECIFIED.

WHEN WORK ACTIVITY BLOCKS THE RIGHT LANE, REVERSE TRAFFIC CONTROL.

WHEN A RAMP INTERSECTS THE FACILITY ON WHICH THE WORK IS BEING PERFORMED, PROVIDE ADDITIONAL TRAFFIC CONTROLS AS SPECIFIED IN THE CONTRACT OR AS APPROVED BY THE ENGINEER.

USE DOUBLE ARROWS WHEN CONVOY IS IN CENTER LANE ONLY.

WHEN NO WORK ACTIVITY IS TAKING PLACE, REMOVE OR LAY STATIONARY SIGNS AND SUPPORTS FLAT ON THE GRADE WITH UPRIGHTS ORIENTED PARALLEL TO AND DOWNSTREAM FROM TRAFFIC

(1) DISTANCE BETWEEN VEHICLES MAY VARY ACCORDING TO TERRAIN, SIGHT DISTANCE AND OTHER FACTORS. WHENEVER ADEQUATE STOPPING SIGHT DISTANCE EXISTS TO THE REAR, SHADOW VEHICLES SHOULD MAINTAIN THE MINIMUM DISTANCE FROM THE WORK VEHICLE AND PROCEED AT THE SAME SPEED AS THE WORK VEHICLE. SHADOW VEHICLES SHOULD SLOW DOWN IN ADVANCE OF VERTICAL AND HORIZONTAL CURVES THAT RESTRICT SIGHT DISTANCE.

(2) DRUMS ARE TO BE USED FOR BRIDGE DECK SEALING AND OTHER PROJECTS THAT REQUIRE DELINEATION.

(3) WITHIN 5 MILES, RELOCATE SIGNS AS WORK PROGRESSES AND NECESSARY OR AS DIRECTED BY THE ENGINEER.

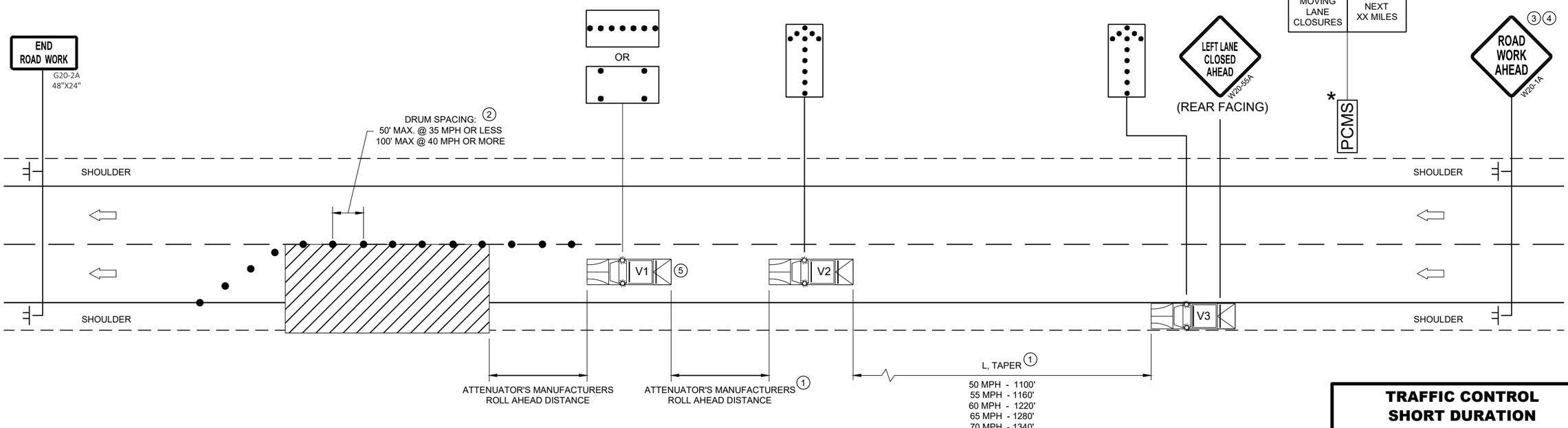
(4) SIGN NOT REQUIRED IF MOVING OPERATION OCCURS WITHIN A SIGNED ROAD WORK ZONE AREA.

(5) SHADOW VEHICLE 1 (V1) IS OPTIONAL

* PCMS OPTIONAL

PCMS MESSAGING

FRAME 1	FRAME 2
MOVING LANE CLOSURES	NEXT XX MILES



TRAFFIC CONTROL SHORT DURATION MOBILE OPERATIONS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
August 2021
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEE

FHWA

6

SDD 15D43 - 02

6

SDD 15D43 - 02

GENERAL NOTES

DRAWING NOT TO SCALE. ALL SIGNS AND POSTS ON THIS SHEET SHALL BE PAID FOR WITH 'TRAFFIC CONTROL SIGNS' BID ITEM. ALL SIDE ROADS WHICH ARE UNDER CONSTRUCTION OF CURB AND GUTTER AND/OR GRADING SHALL BE ADEQUATELY SIGNED.

ALL SIGNS AND DEVICES SHALL BE IN CONFORMANCE WITH THE WISCONSIN MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (WMUTCD). SIGN LAYOUTS SHALL BE IN ACCORDANCE WITH THE WISDOT STANDARD SIGN PLATES.

"WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THAT THE BACKGROUND IS ORANGE.

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.

THE EXACT NUMBER, LOCATION AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS DIRECTED BY THE ENGINEER.

ALL SIGNS INAPPROPRIATE TO THE STATUS OF THE CONTROL ZONE, INCLUDING PRE-EXISTING SIGNS IN THE VICINITY, SHALL BE COVERED OR REMOVED AS DIRECTED BY THE ENGINEER.

SEE 15C34 FOR ADDITIONAL TRAFFIC CONTROL SIGNING WHEN CENTERLINE PAVEMENT MAKINGS ARE MISSING. 'DO NOT PASS' SIGNS MUST BE INSTALLED ON THE SAME DAY AS MILLING OPERATIONS.

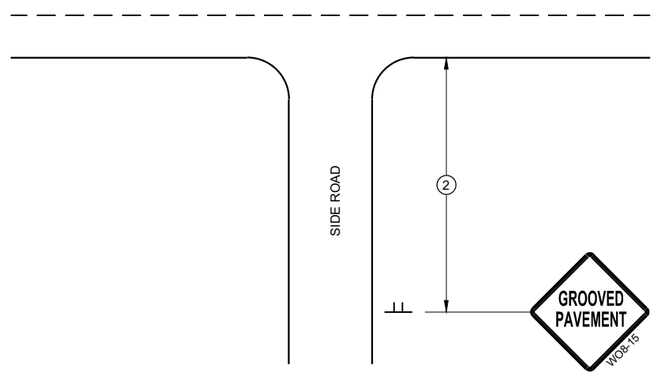
(1) PLACE SIGNS 350' IN ADVANCE OF MILLED SURFACES AND AT 1 MILE INTERVALS, OR AS DIRECTED BY THE ENGINEER.

(2) PLACE SIGN 200' MIN. FROM INTERSECTION AND 200' MIN. AFTER ADVANCE WARNING SIGN SHOWN IN SDD 15C04.

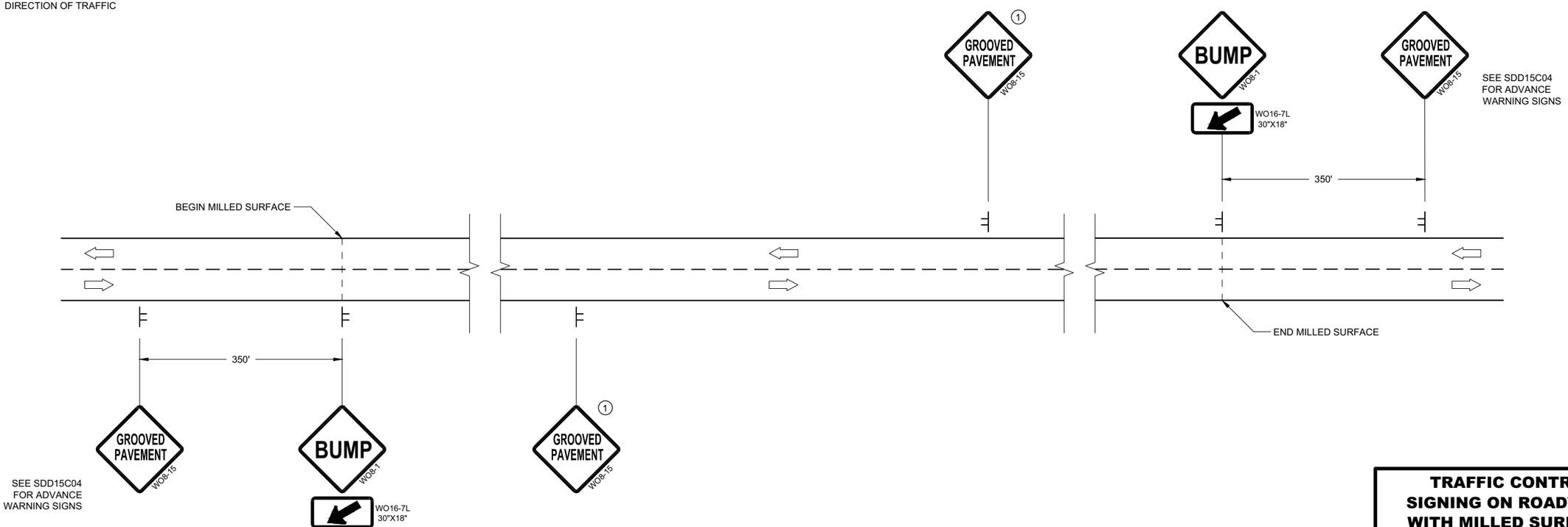
LEGEND

SIGN ON TEMPORARY SUPPORT

DIRECTION OF TRAFFIC



TYPICAL SIDE ROAD APPROACH SIGN DETAIL



DETAIL FOR SIGNING ON MILLED SURFACES

TRAFFIC CONTROL, SIGNING ON ROADWAYS WITH MILLED SURFACES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2020
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEER

FHWA

6
SDD 15D44 - 02

LEGEND

- TYPE III BARRICADE WITH ATTACHED SIGN
- SIGN ON PERMANENT SUPPORT
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
- TYPE "A" WARNING LIGHT (FLASHING)
- DIRECTION OF TRAFFIC
- WORK AREA

POSTED SPEED LIMIT PRIOR TO WORK STARTING (MPH)	ADVANCE WARNING SIGN SPACING (A) FEET	SHIFTING TAPER L/2 W, LATERAL OFFSET (FT)					
		3	4	5	6	7	8
25	200	10	14	17	21	24	28
30	200	15	20	25	30	35	40
35	350	20	27	34	40	47	54
40	350	26	35	44	53	62	70
45	500	45	59	74	89	104	119
50	500	50	66	83	99	116	132
55	500	54	73	91	109	127	145

GENERAL NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS IN URBAN AREAS, 36"x36" SIGNS MAY BE USED IF APPROVED BY THE REGIONAL TRAFFIC UNIT.

"WO" IS THE SAME AS "W" EXCEPT THE BACKGROUND IS ORANGE.

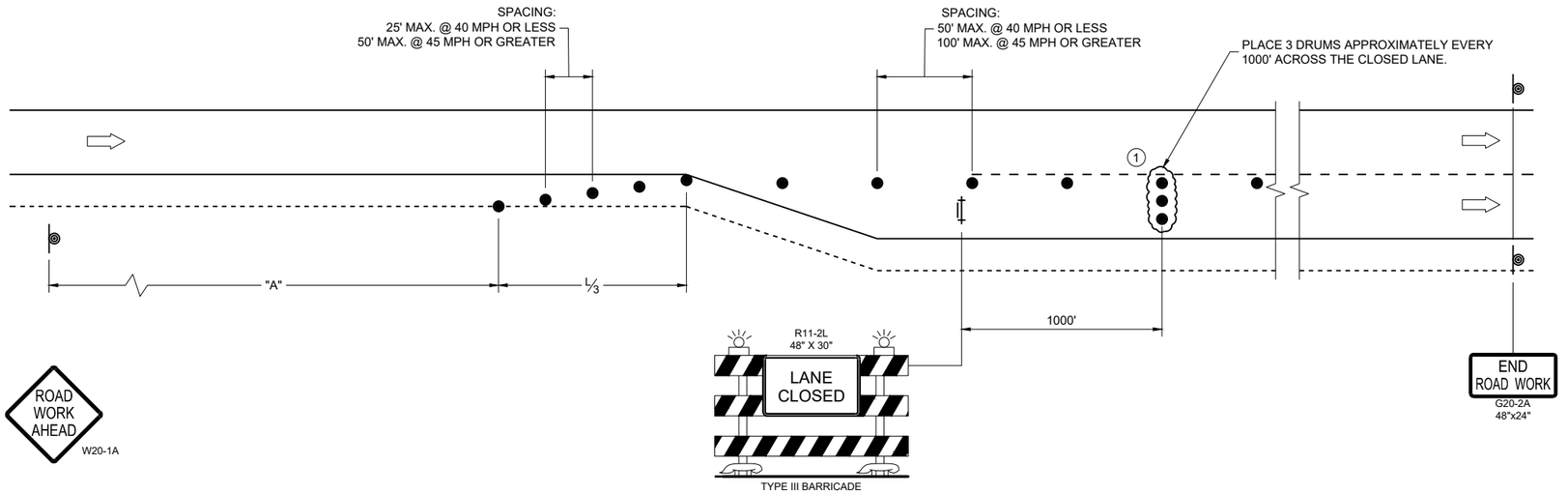
ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

CHANNELIZING DEVICES PLACED ADJACENT TO WORK AREA SHALL BE PULLED BACK FROM THE TRAVEL LANE WHEN WORK IS NOT IN PROGRESS.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

W20-1 AND G20-2A SIGNS ARE NOT REQUIRED IF THE WORK AREA IS WITHIN A LARGER WORK ZONE WHERE THESE SIGNS ARE ALREADY PRESENT. G20-2A SIGNS MAY ALSO BE OMITTED IF DURATION WORK IS LESS THAN SEVEN CONTINUOUS DAYS AND NIGHTS.

(1) DRUMS IN A CLOSED LANE THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY REESTABLISHED UPON COMPLETION OF THE OPERATION, OR FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.



TRAFFIC CONTROL
ADDED LANE CLOSURE
WITHOUT LANE SHIFT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2025 — DATE
/S/ Andrew Heidtke — WORK ZONE ENGINEER

FHWA

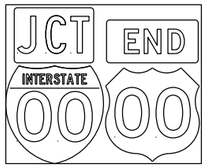
6

SDD 15D50-04a

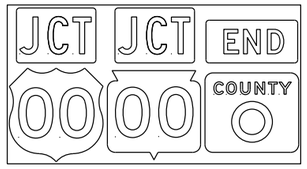
TYPICAL ASSEMBLIES



J1-1



J1-2



J1-3



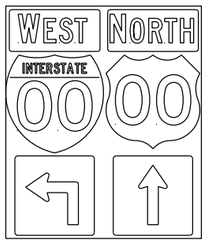
JR1-1



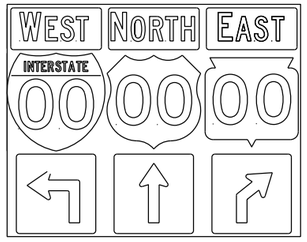
JV
(Typical Vertical J-Assembly
See Note 10 and 11)



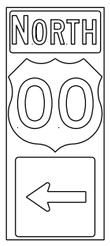
J2-1



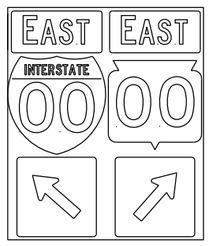
J2-2



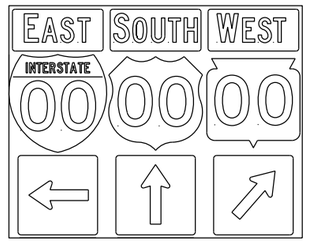
J2-3



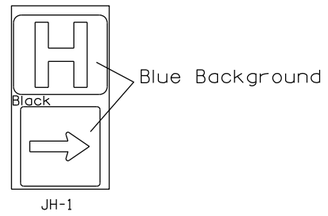
J3-1



J3-2



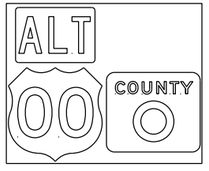
J3-3



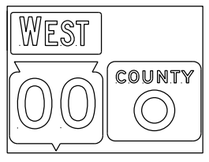
JH-1



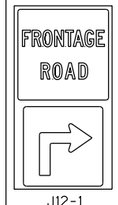
J4-1



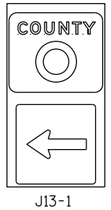
J4-2



J4-2



J12-1



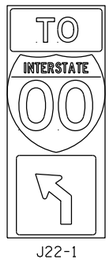
J13-1



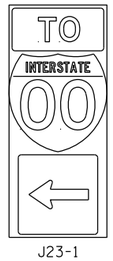
J32-1



J33-1



J22-1



J23-1



JR13-1



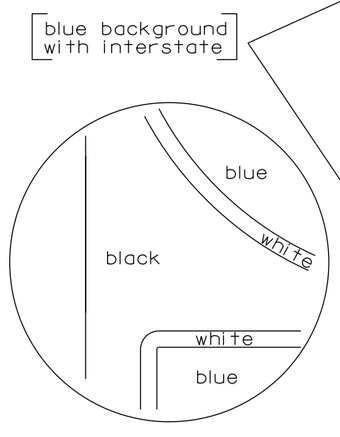
JR23-1

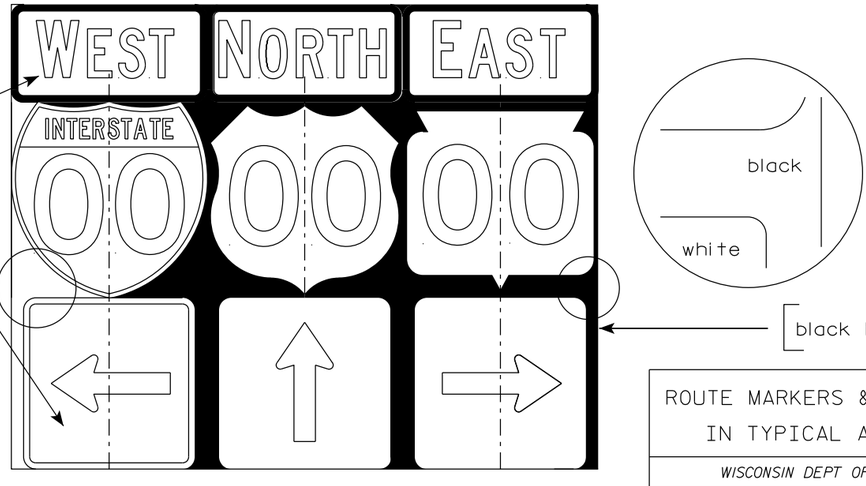


JR99-1

NOTES

1. Signs are Type II - Type H Reflective
2. Color:
   Background - Black Non-reflective
   Message - see Note 4
3. Message Series - See Note 4
4. The colors and message spacing on each marker shall be according to the applicable route marker panel specifications.
5. Certain marker heads require the component pieces to be the same color. As an example, all the components used with an M1-1 Interstate marker shall be blue.
6. Single panel j-assemblies shall only be used with route marker shields that are same size. If the route marker shields are different size use multiple piece component.
7. Route assemblies that have 24 inch route shields and have dimensions greater than 48 inches (both vertical and horizontal) shall have one horizontal splice between the arrows and route shields. Vertical splices shall not be used on route assemblies with a horizontal dimension of 144 inches or less. The contractor shall not use more than one vertical joint per sign and the joint shall be between route shields.
8. Route assemblies that have 36 inch shields and have dimensions greater than 48 inchs (both vertical and horizontal) shall have two horizontal splices. One horizontal splice shall be between the cardinal direction and route shields and the other horizontal splice shall be between the arrows and route shields. Vertical splices shall not be used on route assemblies with a horizontal dimension of 144 or less. The contractor shall not use more than one vertical joint per sign and the joint shall be between route shields.
9. All Vertical J Assemblies are given a Sign Code of JV
10. For JV Assemblies that have a mixture of Interstate and Non-Interstate shields, arrows and cardinals shall be white on blue.
11. For JV Assemblies that have a mixture of Non-Interstate and Auto-Tour shields, arrows and cardinals shall be black on white.





ROUTE MARKERS & COMPONENTS IN TYPICAL ASSEMBLIES

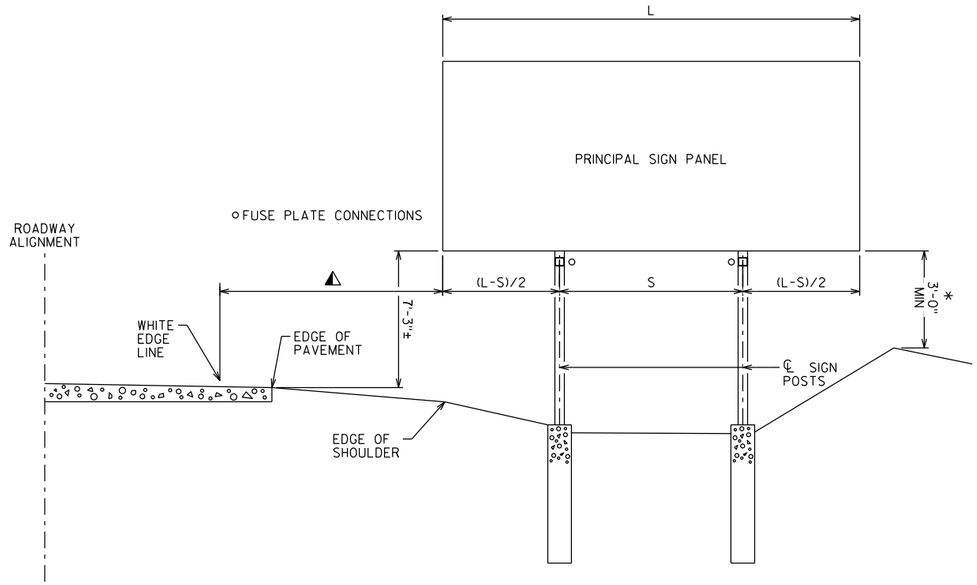
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

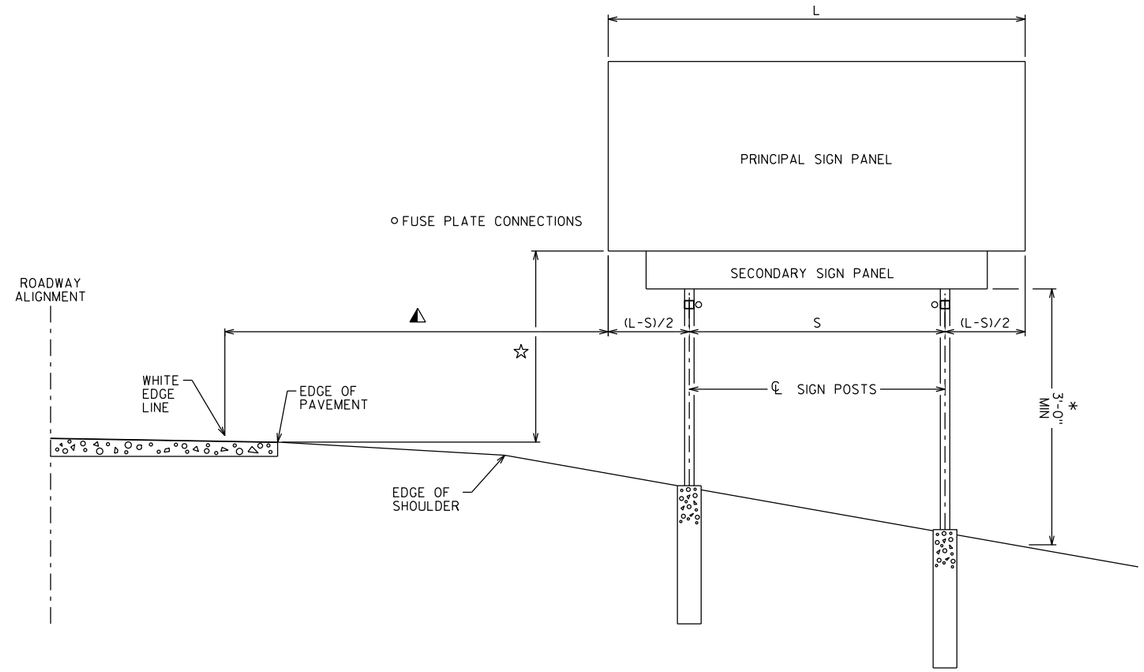
DATE 6/7/23 PLATE NO. A2-1S.10

PROJECT NO:

SHEET NO: 397 E



INSTALLATION WITHOUT SECONDARY SIGN



INSTALLATION WITH SECONDARY SIGN

TYPE 1 SIGN INSTALLATION NOTES:

FOR A 2-POST INSTALLATION, "S" EQUALS 3L/5, BUT SHALL NOT BE LESS THAN 6'-0".

FOR A 3-POST INSTALLATION, "S" EQUALS 5L/7, BUT SHALL NOT BE LESS THAN 12'-0". THE SPACING BETWEEN ANY TWO POSTS SHALL NOT BE LESS THAN 6'-0".

◭ UNLESS NOTED IN THE PLANS, THE SIGN OFFSET DISTANCE SHALL BE A MINIMUM OF 17'-6" FROM THE WHITE EDGE LINE, DESIRABLE 30'-0".

WHERE SIGNS ARE MOUNTED BEHIND CRASH WORTHY PROTECTION SUCH AS GUARDRAIL OR BARRIER WALL, THE LATERAL OFFSET MAY BE 4'-6" BEHIND THE GUARDRAIL OR BARRIER WALL.

THE ± TOLERANCE SHOWN ON THIS SHEETS IS 3".

THE VERTICAL SIGN HEIGHT CLEARANCES SHOWN ON THIS SHEET ARE MEASURED FROM THE BOTTOM OF THE SIGN PANEL TO THE NEAR EDGE OF PAVEMENT.

☆ THE VERTICAL CLEARANCE SHALL BE 8'-3"± WHEN THE SECONDARY SIGN HEIGHT IS 3'-0" OR LESS. FOR SECONDARY SIGN HEIGHTS LARGER THAN 3'-0", THE VERTICAL CLEARANCE TO THE BOTTOM OF THE SECONDARY SIGN PANEL SHALL BE 5'-3"±.

* THE VERTICAL SIGN GROUND CLEARANCE ON RIGHT END OF SIGN SHALL BE A MINIMUM OF 3'-0"±.

○ FOR 2-POST SIGNS, IF THERE IS A SECONDARY SIGN THAT IS NOT AS WIDE AS THE POSTS, INSTALL FUSE PLATES BENEATH PRINCIPAL SIGN.

FOR SECONDARY SIGNS THAT ARE NOT AS WIDE AS THE EXTERIOR POSTS, SECURE SIGN WITH CHANNEL STEEL AS DESCRIBED IN A4-6.

POST LENGTHS SHOWN IN THE MISCELLANEOUS QUANTITIES ARE ESTIMATED LENGTHS. THE CONTRACTOR SHALL VERIFY POST LENGTHS AT THE TIME OF FINAL GRADING.

REFER TO THE TRAFFIC ENGINEERING OPERATIONS AND SAFETY MANUAL FOR FURTHER GUIDANCE ON MINIMUM VERTICAL CLEARANCE REQUIREMENTS.

NO.	DATE	REVISION	BY
	2/29/24		

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE BTO TYPE I SIGNS

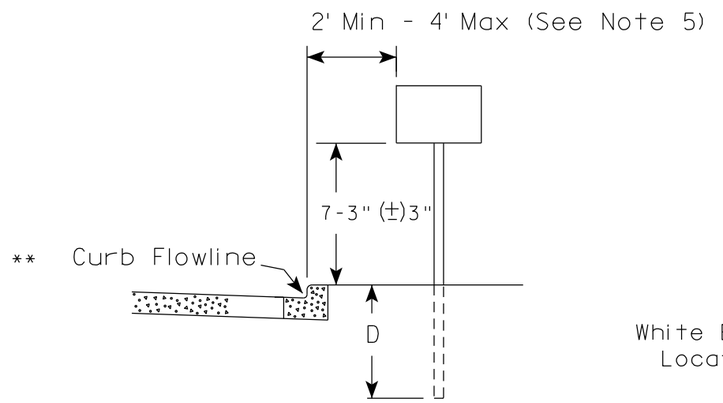
DRAWN BY	PLANS CK'D.

TYPICAL TYPE I SIGN INSTALLATION

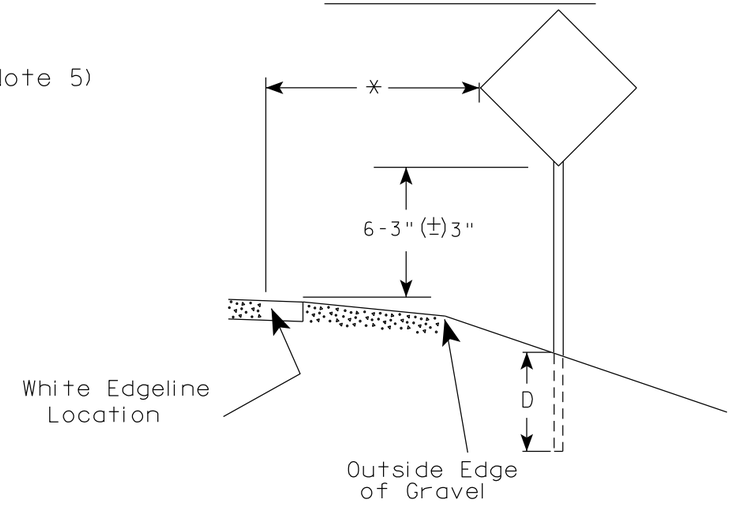
SHEET A4-1.11

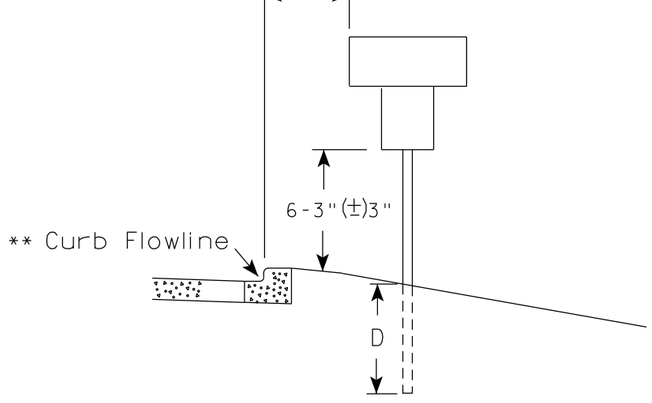
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 398	E

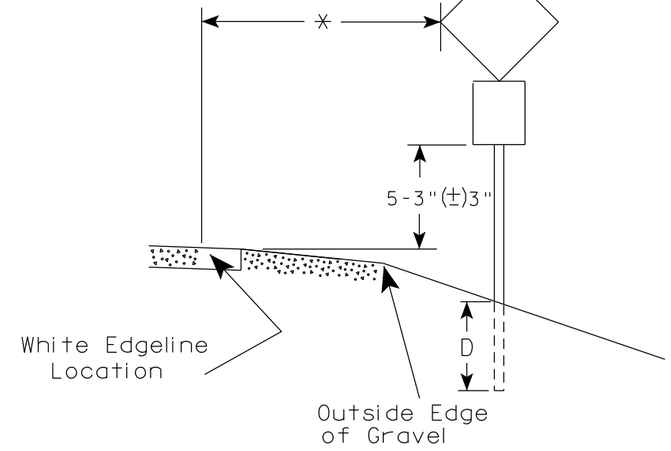
URBAN AREA



RURAL AREA (See Note 2)







** The existence of curb and gutter does not in itself mandate the vertical clearance illustrated. That height is typically measured where there is sidewalk adjacent to the roadway or parking is permitted. In the absence of sidewalk vertical clearance is measured from the top of the curb. Offset of signs is measured from the flow line.

* 6 feet from edge of a paved shoulder or 12 feet from the edge of pavement (edge line location) or 2 feet from outside edge of gravel, whichever is greater unless directed by project engineer.

POST EMBEDMENT DEPTH

Area of Sign Installation (Sq. Ft.)	D (Min)
20 or Less	4'
Greater than 20	5'

GENERAL NOTES

1. Signs wider than 4 feet or 20 sq.ft or larger, shall be mounted on multiple posts. Refer to plate A4-4.
2. If signs are mounted on or behind barrier wall, see A4-10 sign plate.
   The Double Arrow sign (W12-1D) shall be mounted at a height of 2'-3" (±) 3". The Chevron sign (W1-8), Roundabout Chevron panel (R6-4B), Enhanced Reference Markers, Clearance Markers (W5-52), Mile Markers (D10 series), In Road Object Markers (W5-54) & End of Road Markers (W5-56) shall be mounted at a height of 4'-3" (±) 3".
3. For expressways and freeways, mounting height is 7'- 3" (±) 3" or 6'-3" (±) 3" depending upon existence of a sub-sign.
4. Minimum mounting height for signs mounted on traffic signal poles is 5'- 3" (±) 3".
5. Offset distance shall be consistent with existing signs or consistent throughout length of project.
6. Folding signs shall be mounted at a height of 5'-3" (±) 3" or as directd by the Engineer.

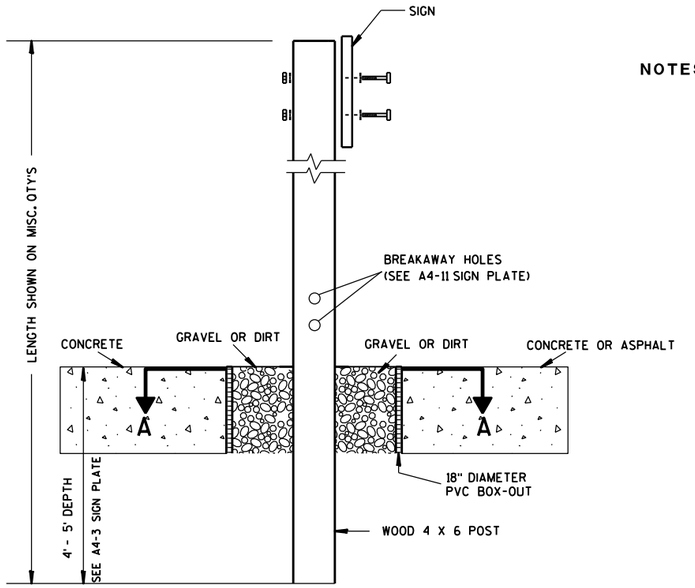
TYPICAL INSTALLATION OF PERMANENT TYPE II SIGNS ON SINGLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/6/23 PLATE NO. A4-3.23

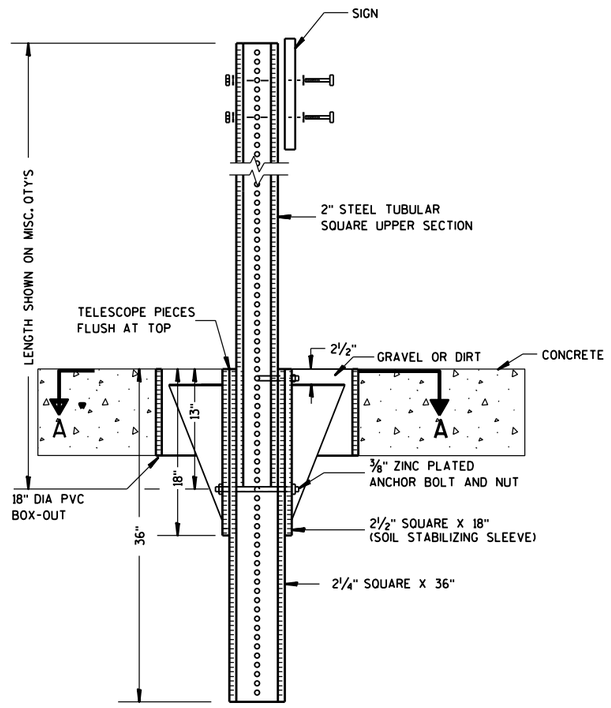
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 399	E



ELEVATION VIEW

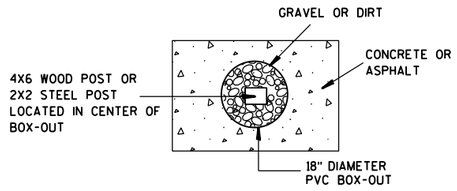
DETAIL OF WOOD 4 X 6 SIGN POST IN BOX-OUT

NOTES:
1. ALL MATERIAL TO BE APPROVED BY ENGINEER PRIOR TO INSTALLATION
2. SEE SIGN PLATE A4-8 FOR SIGN HARDWARE REQUIREMENTS
3. 18 INCH X 18 INCH SQUARE BOX-OUTS MAY BE USED FOR INSTALLATIONS IN EXISTING CONCRETE OR ASPHALT LOCATIONS.



ELEVATION VIEW

DETAIL OF STEEL 2 X 2 SIGN POST IN BOX-OUT



PLAN VIEW

FOR NEW CONCRETE/ASPHALT INSTALLATIONS

SIGN POST BOX-OUTS A4-3B

WISCONSIN DEPT OF TRANSPORTATION

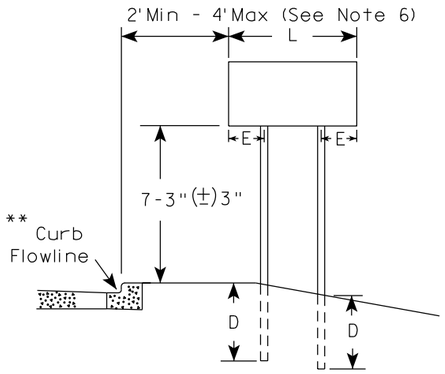
APPROVED Matthew R Rauch
for State Traffic Engineer

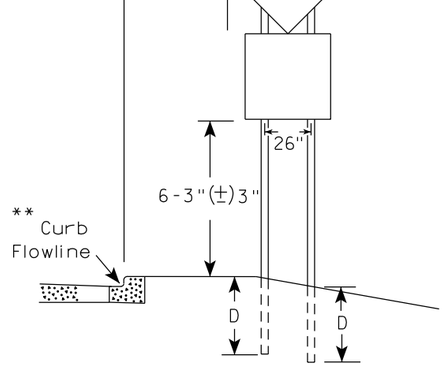
DATE 1/27/14 PLATE NO. A4-3B.1

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A43B.DGN PLOT DATE : 27-JAN-2014 09:48 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 13.659812:1.000000 WISDOT/CADDS SHEET 42

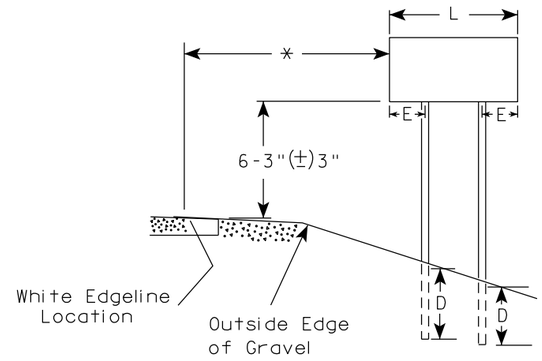
URBAN AREA

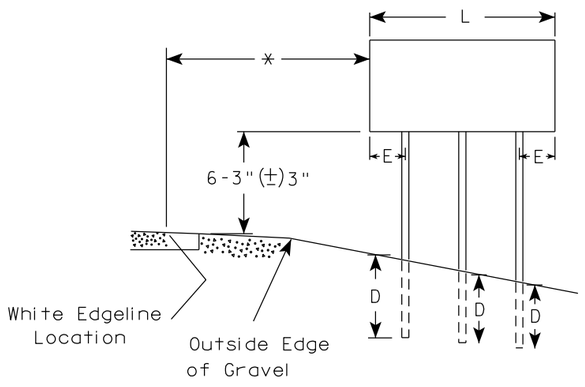


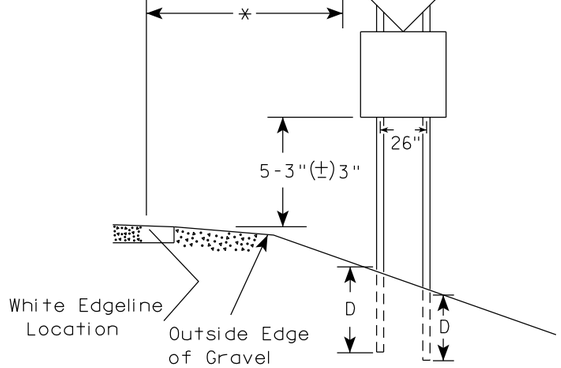


48" DIAMOND WARNING SIGN

RURAL AREA (See Note 3)







48" DIAMOND WARNING SIGN

SIGN SHAPE OTHER THAN DIAMOND (TWO POSTS REQUIRED)		
	L	E
***	Greater than 48" Less than 60"	12"
	60" to 108"	L/5

SIGN SHAPE OTHER THAN DIAMOND (THREE POSTS REQUIRED)	
L	E
Greater than 108" to 144"	12"

GENERAL NOTES

1. For 3 or 4 post installations, individual post spacing shall be greater than 3'-6".
2. See tables below for required number of posts.
3. For expressways and freeways, mounting height is 7'-3" (±) 3" or 6'-3" (±) 3" depending upon existence of sub-sign.
4. The (±) tolerance for mounting height is 3 inches.
5. J-Assemblies are considered to be one sign for mounting height.
6. Offset distance shall be consistent with existing signs or consistent throughout length of project.
7. Folding signs shall be mounted at a height of 5'-3" (±) 3" or as directed by the engineer.
8. The Double Arrow sign (W12-1) shall be mounted at a height of 2'-3" (±) 3". The Chevron sign (W1-8), Roundabout Chevron panel (R6-4B), Clearance Markers (W5-52), Mile Markers (D10 series), In Road Object Markers (W5-54) & End of Road Markers (W5-56) shall be mounted at a height of 4"-3" (±) 3".

* 6 feet from edge of a paved shoulder or 12 feet from the edge of pavement (edge line location) or 2 feet from outside edge of gravel, whichever is greater unless directed by project engineer.

** The existence of curb and gutter does not in itself mandate the vertical clearance illustrated. That height is typically measured where there is sidewalk adjacent to the roadway or parking is permitted. In the absence of sidewalk vertical clearance is measured from the top of the curb. Offset of signs is measured from the flow line.

*** See A4-3 sign plate for signs 4' or less in width and less than 20 S.F. in area.

POST EMBEDMENT DEPTH

Area of Sign Installation (Sq. Ft.)	D (Min)
20 or Less	4'
Greater than 20	5'

TYPICAL INSTALLATION OF TYPE II SIGNS ON MULTIPLE POSTS

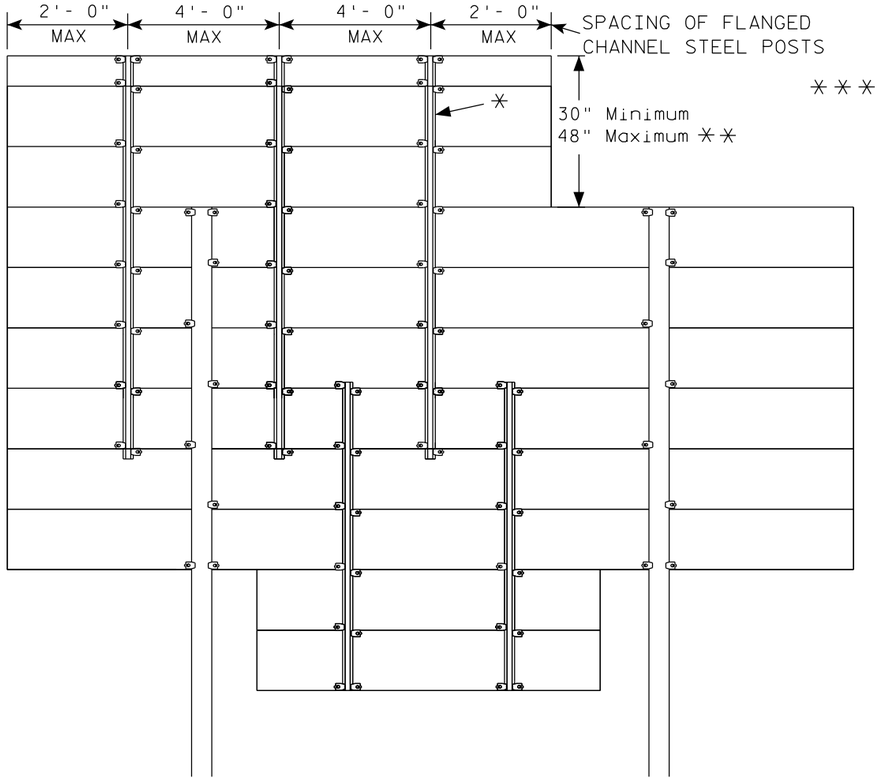
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/6/23 PLATE NO. A4-4.16

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 401	E

GROUND MOUNTED SIGN



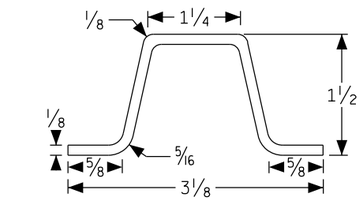
✳=2.00 lb/ft AND 4.00 lb/ft FLANGED CHANNEL, MIN. YIELD STRENGTH = 60,000 PSI (GRADE 60) GALVANIZED

✳✳=FOR 48" HEIGHT PANELS ON OVERHEAD STRUCTURES, ENTIRE SIGN SHALL BE CENTERED VERTICALLY ABOUT THE DEPTH OF THE TRUSS.

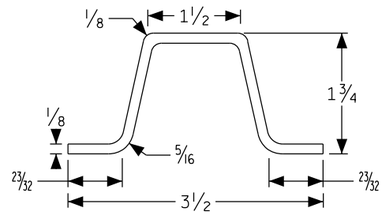
✳✳✳ THESE SPACING DISTANCES SHALL ONLY BE USED WHEN THE MAIN SIGN HAS A MAXIMUM HEIGHT (DIMENSION H) OF 15 FT OR LESS. FOR SIGNS WITH A HEIGHT OF GREATER THAN 15 FT, STRUCTURAL CALCULATIONS SHALL BE PERFORMED.

FLANGE CHANNEL DETAILS

NOT TO SCALE

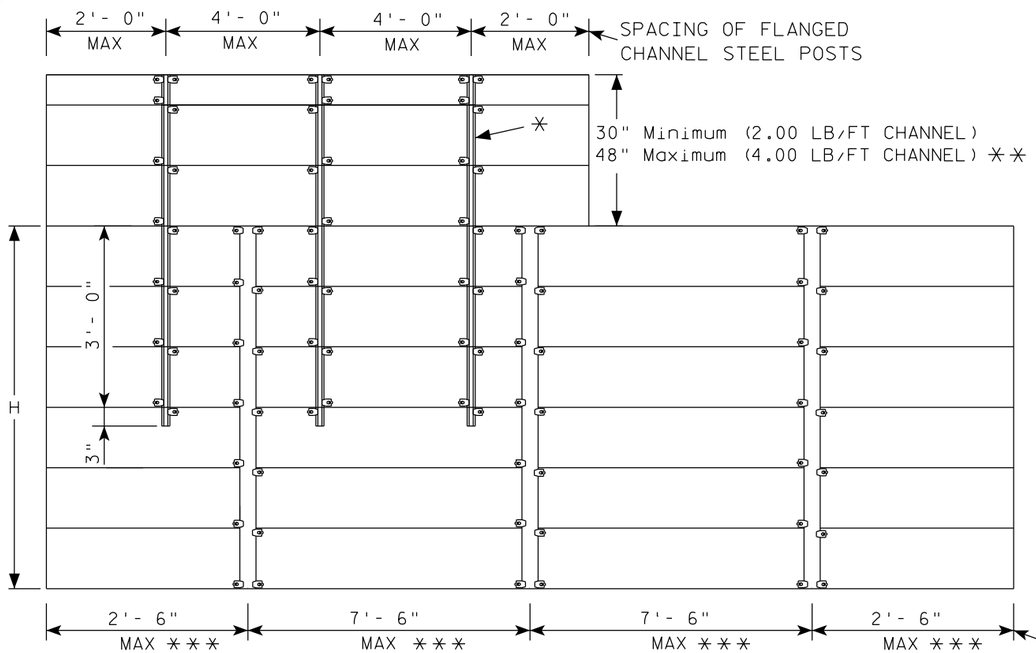


2.00 LB/FT CHANNEL



4.00 LB/FT CHANNEL

SIGN BRIDGE MOUNTED SIGN



SPACING OF ALUMINUM SIGN SUPPORTS 5" X 3.5" X 3.7 LBS./ft.

GENERAL NOTES

1. Flanged channel steel posts shall conform to size and material above, and shall be considered as incidental to other items in the contract.
2. Number of Flanged channel steel supports varies with length of panel and shall be spaced as shown:

   PANEL LENGTH 8'-0" OR LESS = 2 CHANNELS
   PANEL LENGTH 9'- 0" - 12'- 0" = 3 CHANNELS
   PANEL LENGTH 13'- 0" OR MORE = 4 CHANNELS

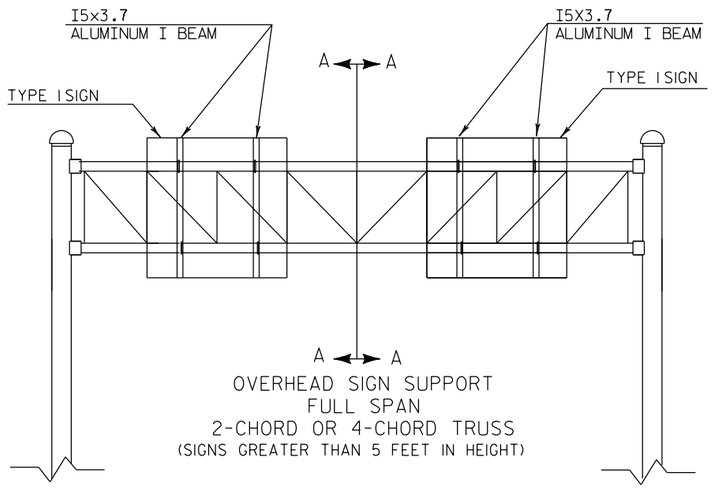
   If the flanged channel steel posts can not be horizontally spaced as shown, they can be moved so as to securely hold the sign.
3. The EXIT NUMBER PANEL shall normally be positioned above the guide sign aligned with the right edge of the guide sign. If the guide sign indicates a left exit, the EXIT NUMBER PANEL shall be aligned with the left edge of the guide sign.
4. If the bolt holes in the top panel (EXIT NUMBER), or sub panel (NEXT EXIT) line up with holes in main sign panel, stitch bolts shall be used in addition to the channels.
5. Provide post clips for each sign as shown. (Please note the differences between a ground mounted versus Sign bridge mounted sign as far as number of clips required on the main supports or beams)
6. Structural steel sign supports shall extend to the top of the main signs, as shown on the above details.

ATTACHMENT OF GUIDE SIGNS TO SUPPORTS

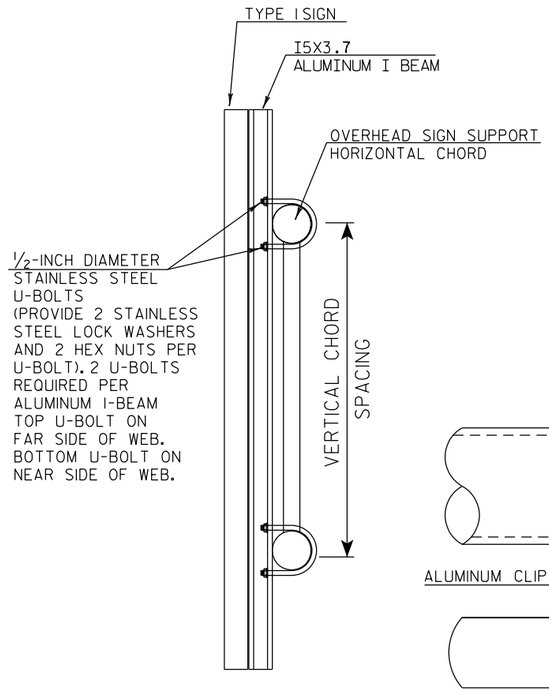
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

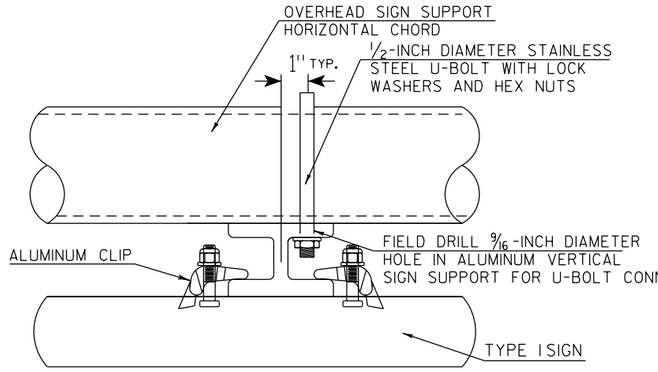
DATE 1/07/20 PLATE NO. A4-6.12



OVERHEAD SIGN SUPPORT
FULL SPAN
2-CHORD OR 4-CHORD TRUSS
(SIGNS GREATER THAN 5 FEET IN HEIGHT)



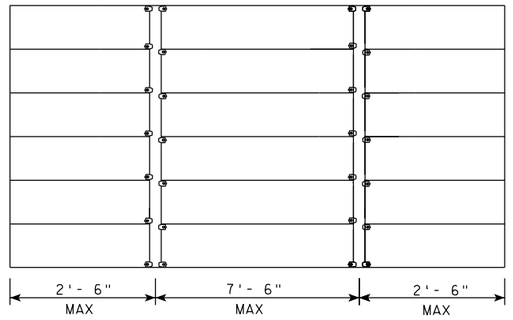
CUT SECTION A-A



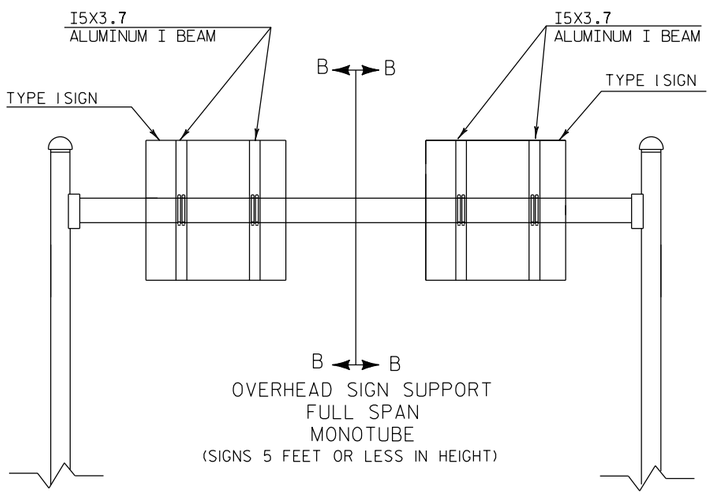
TYPICAL SIGN CONNECTION FOR
2-CHORD OR 4-CHORD TRUSS
PLAN VIEW

GENERAL NOTES

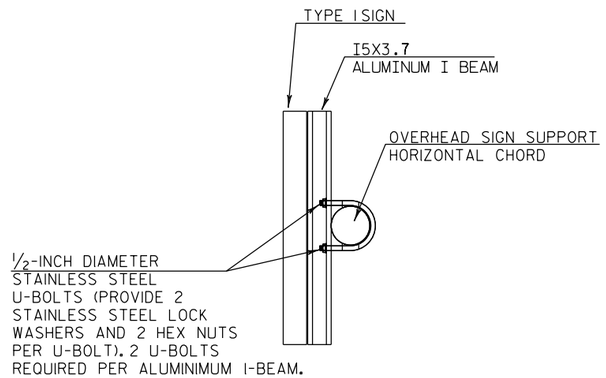
1. USE STAINLESS STEEL U-BOLTS, WASHERS, AND NUTS.
2. USE CLIPS ON EVERY EXTRUDED PANEL JOINT PER SIGN PLATE A4-6.
3. USE ALUMINUM VERTICAL SIGN SUPPORT BEAMS HAVING A 5 INCH BEAM DEPTH AND WEIGHT OF 3.7 LBS PER FOOT.
4. U-BOLTS SHALL BE STAINLESS STEEL AND MANUFACTURED TO THE PROPER SIZE TO FIT THE CHORDS OF THE OVERHEAD SIGN STRUCTURE.
5. DIAMETER OF U-BOLTS SHALL BE AS SHOWN.
6. THE LENGTH OF THE ALUMINUM VERTICAL SIGN SUPPORT BEAMS SHALL BE THE SAME AS THE HEIGHT OF THE SIGN THEY ARE SUPPORTING. BEAM LENGTHS MAY BE LONGER FOR PROPER ATTACHMENT TO CHORDS.
7. MINIMUM NUMBER OF BRACKETS PER SIGN IS TWO. SEE DETAIL BELOW FOR SPACING OF ALUMINUM VERTICAL SIGN SUPPORTS
8. MATERIAL NOTES:
   STAINLESS STEEL U-BOLTS AND LOCKWASHERS ASTM 304.
   STAINLESS STEEL HEX NUTS ASTM A276.
   ALUMINUM I-BEAMS ARE 6061-T6.
9. SLOTTED HOLES IN I-BEAMS ARE NOT ALLOWED



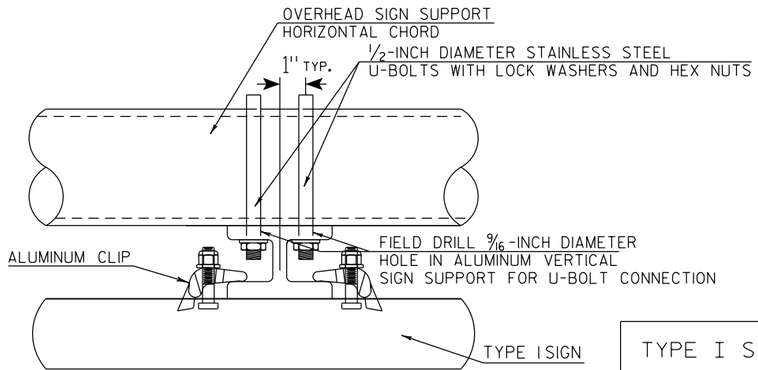
SPACING OF I5X3.7 ALUMINUM
VERTICAL SIGN SUPPORT



OVERHEAD SIGN SUPPORT
FULL SPAN
MONOTUBE
(SIGNS 5 FEET OR LESS IN HEIGHT)



CUT SECTION B-B



TYPICAL SIGN CONNECTION FOR
MONOTUBE
PLAN VIEW

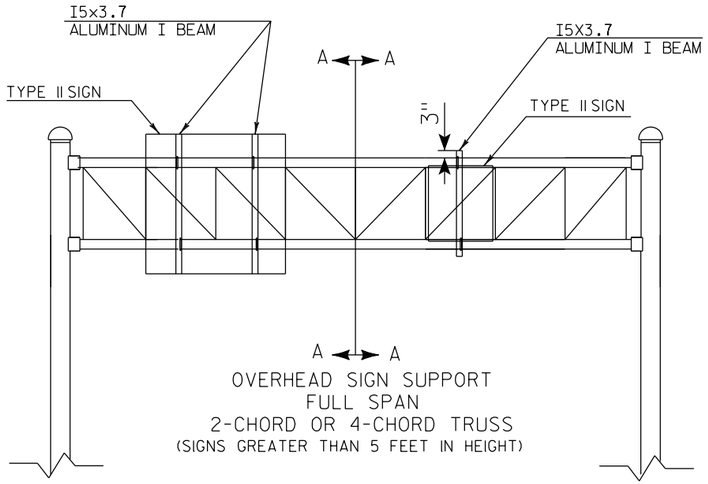
TYPE I SIGN CONNECTION
TO OVERHEAD SIGN SUPPORT

WISCONSIN DEPT OF TRANSPORTATION

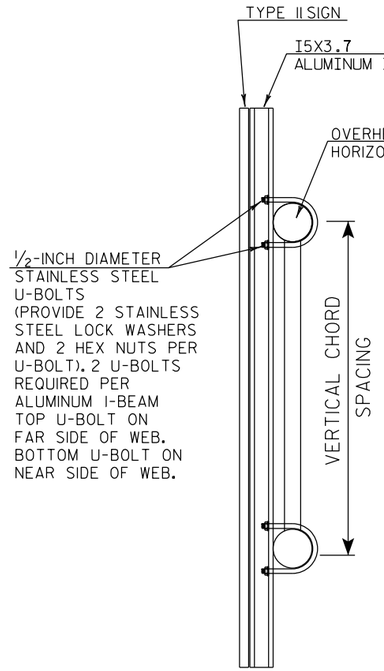
APPROVED Matthew R Rauch
State Traffic Engineer

DATE 1/07/20 PLATE NO. A4-7A.1

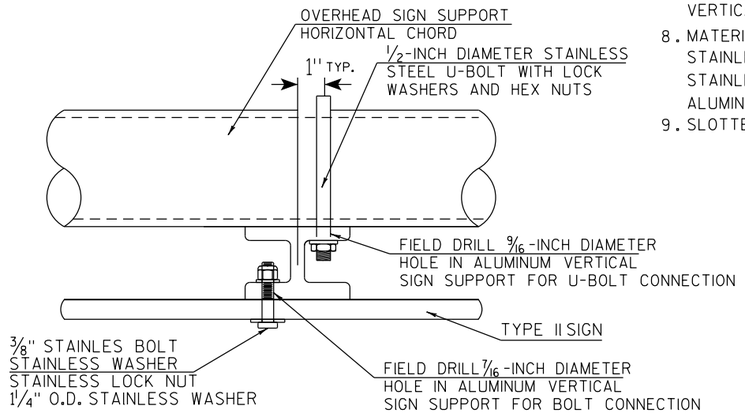
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 403	E



OVERHEAD SIGN SUPPORT
FULL SPAN
2-CHORD OR 4-CHORD TRUSS
(SIGNS GREATER THAN 5 FEET IN HEIGHT)



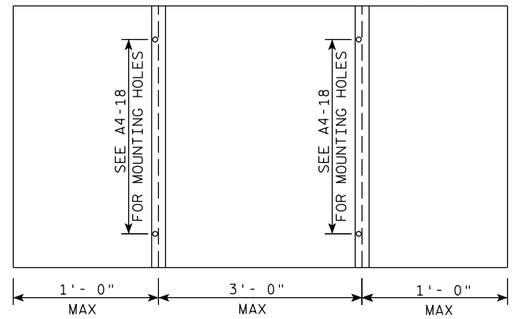
CUT SECTION A-A



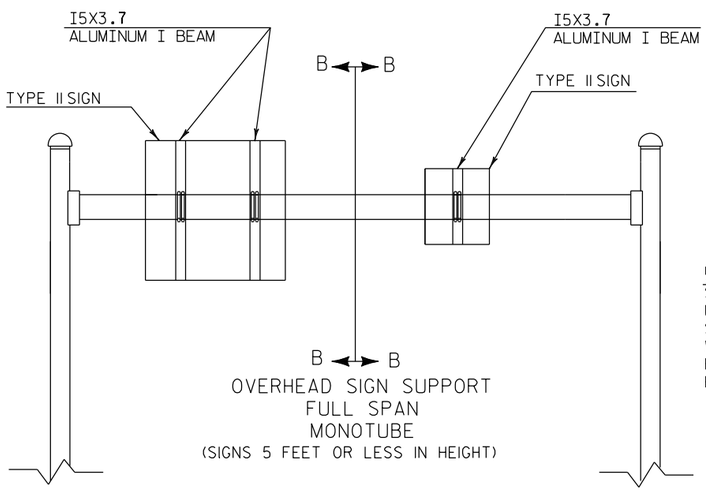
TYPICAL SIGN CONNECTION FOR
2-CHORD OR 4-CHORD TRUSS
PLAN VIEW

GENERAL NOTES

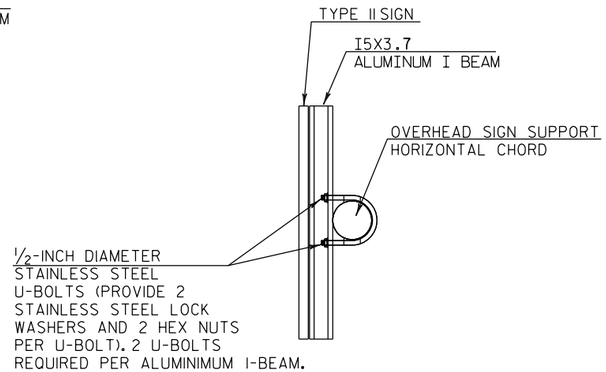
1. USE STAINLESS STEEL U-BOLTS, WASHERS, AND NUTS.
2. USE STAINLESS BOLTS AT BOLT HOLES IN SIGN PANEL PER SIGN PLATE A4-18.
3. USE ALUMINUM VERTICAL SIGN SUPPORT BEAMS HAVING A 5 INCH BEAM DEPTH AND WEIGHT OF 3.7 LBS PER FOOT.
4. U-BOLTS SHALL BE STAINLESS STEEL AND MANUFACTURED TO THE PROPER SIZE TO FIT THE CHORDS OF THE OVERHEAD SIGN STRUCTURE.
5. DIAMETER OF U-BOLTS SHALL BE AS SHOWN.
6. THE LENGTH OF THE ALUMINUM VERTICAL SIGN SUPPORT BEAMS SHALL BE THE SAME AS THE HEIGHT OF THE SIGN THEY ARE SUPPORTING. BEAM LENGTHS MAY BE LONGER FOR PROPER ATTACHMENT TO CHORDS.
7. SEE DETAIL BELOW FOR SPACING OF ALUMINUM VERTICAL SIGN SUPPORTS
8. MATERIAL NOTES:
   STAINLESS STEEL U-BOLTS, BOLTS, AND LOCKWASHERS ASTM 304.
   STAINLESS STEEL HEX NUTS ASTM A276.
   ALUMINUM I-BEAMS ARE 6061-T6.
9. SLOTTED HOLES IN I-BEAMS ARE NOT ALLOWED



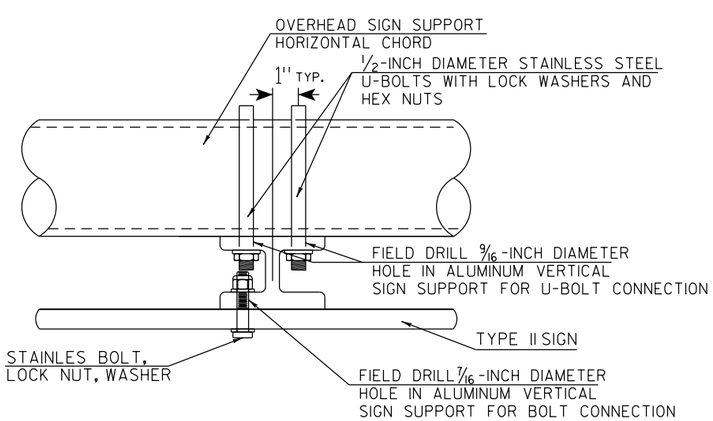
SPACING OF I5X3.7 ALUMINUM
MULTIPLE VERTICAL SIGN SUPPORTS



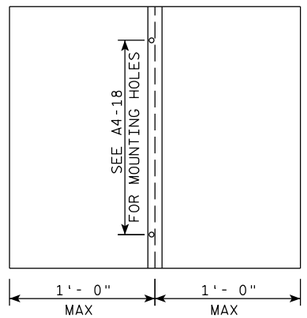
OVERHEAD SIGN SUPPORT
FULL SPAN
MONOTUBE
(SIGNS 5 FEET OR LESS IN HEIGHT)



CUT SECTION B-B



TYPICAL SIGN CONNECTION FOR
MONOTUBE
PLAN VIEW



SPACING OF I5X3.7 ALUMINUM
SINGLE VERTICAL SIGN SUPPORT

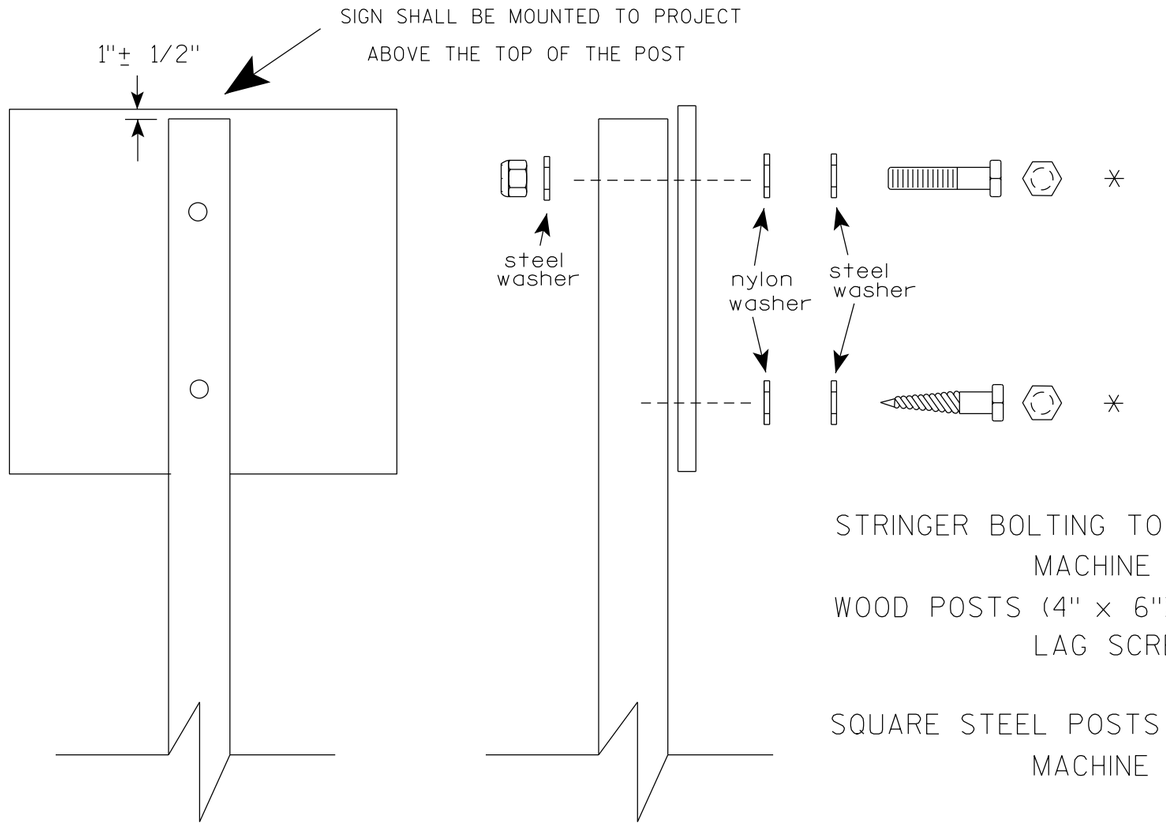
TYPE II SIGN CONNECTION
TO OVERHEAD SIGN SUPPORT

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 1/07/20 PLATE NO. A4-7B.1

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 404	E



Nuts, bolts and lags used for mounting signs shall have hexagonal heads and shall be either :

a. Hot dip galvanized in accordance with ASTM Designation: A 153, Class D, or SC 3

b. Electro-galvanized in accordance with ASTM Designation : B 633, TYPE III, SC 3.

Threads on bolts and nuts shall be manufactured with sufficient allowance for the cadmium plate or galvanized coating to permit the nuts to run freely on the bolts.

STRINGER BOLTING TO ALUMINUM SIGNS (SEE SIGN PLATE A4-18)

MACHINE BOLTS - 5/16" X 1-3/4" Length w/ lock nuts

WOOD POSTS (4" x 6")

LAG SCREWS - 3/8" X 3" (NO STRINGERS ON BACK OF SIGN)
3/8" X 4" (STRINGERS ON BACK OF SIGN)

SQUARE STEEL POSTS (2" x 2")

MACHINE BOLTS - 3/8" X 3-1/4" Length w/ nuts (NO STRINGER ON BACK OF SIGN)
3/8" X 5" Length w/ nuts (STRINGERS ON BACK OF SIGN)

RIVETS - 9/32" (6605-9-6) BULB-TITE, TRI-FOLD, ALUMINUM BODY/MANDREL
O.D. FLANGE .720-.765 INCH, GRIP RANGE .042-.375 INCH

WASHERS (ALL POSTS) -

1-1/4" O.D. X 3/8" I.D. X 1/16" STEEL
1-1/4" O.D. X 3/8" I.D. X .080 NYLON

* Two different fastening systems are shown for illustration purposes. On any individual sign, either one or the other system shall be used. Actual number of fasteners per sign varies with the sign area, but normally there are two. For a single post installation, all signs greater than 9 sq. ft. require the use of 3 fasteners.

ATTACHMENT OF SIGNS TO POSTS

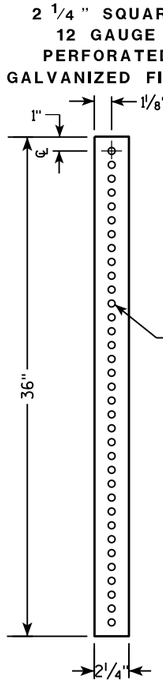
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

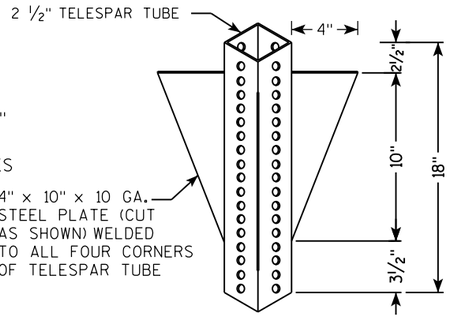
DATE 4/1/2020 PLATE NO. A4-8.9

TELESCOPIC TUBING ANCHORS
TWO PIECE SYSTEM

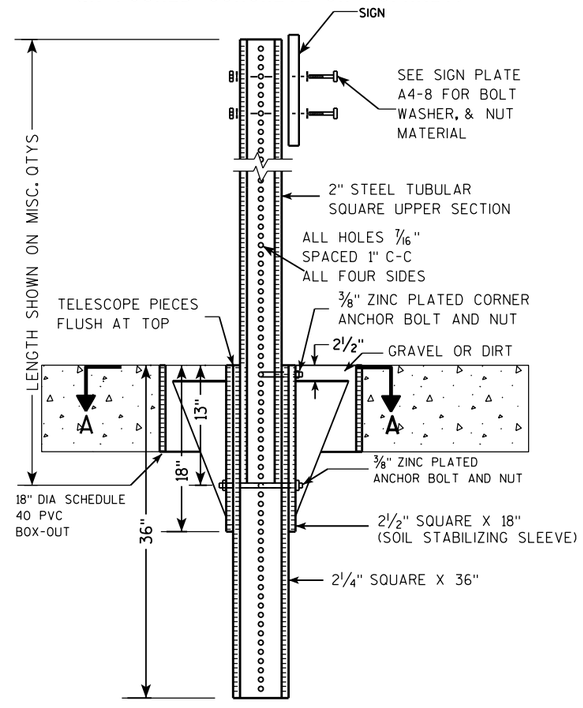
2 1/4 " SQUARE
12 GAUGE
PERFORATED
GALVANIZED FINISH



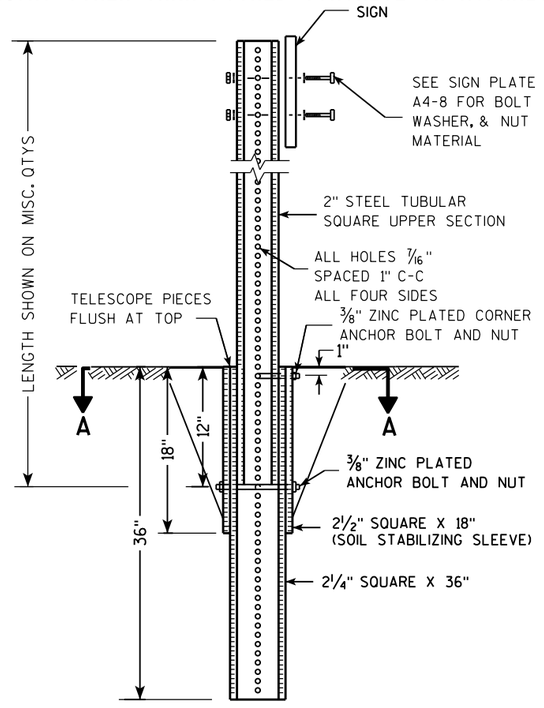
2 1/2 " SQUARE
12 GAUGE
OMNI-DIRECTIONAL
PERFORATED
SOIL STABILIZING SLEEVE
GALVANIZED FINISH

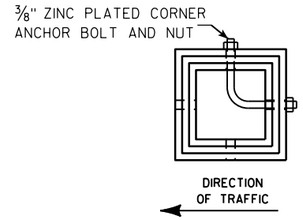


DETAIL OF TUBULAR STEEL SIGN POST
(IN POURED CONCRETE OR ASPHALT)



DETAIL OF TUBULAR STEEL SIGN POST
(IN LOCATIONS OTHER THAN POURED CONCRETE OR ASPHALT)





SECTION A-A

Area of Sign Installation (Sq. Ft.)	Number of Required Posts
9 or less	1
Greater than 9 less than or equal to 18	2
Greater than 18 less than or equal to 27	3

Signs wider than 3 feet or larger than 9 sq. ft shall be mounted on multiple posts (see above table).

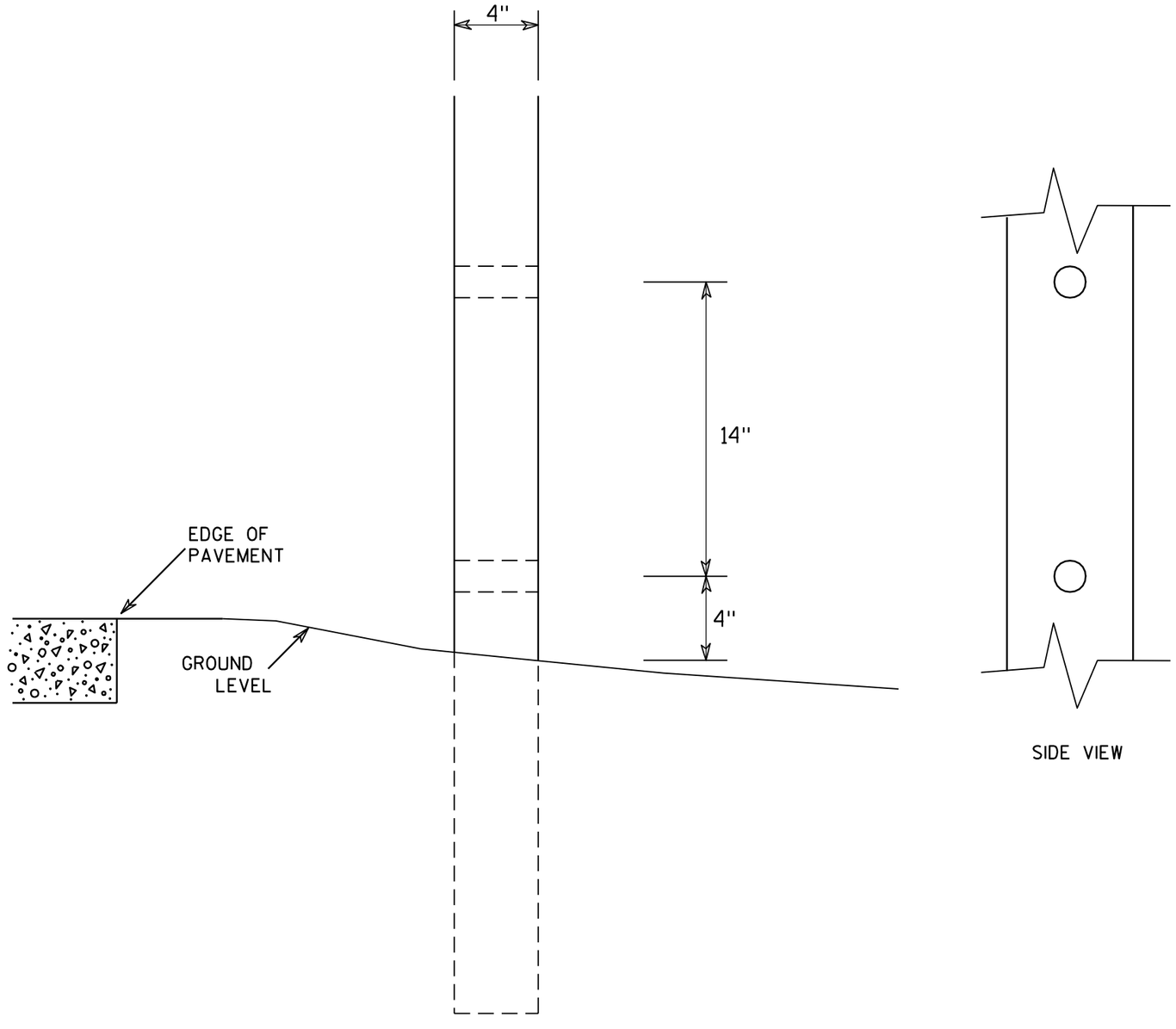
TUBULAR STEEL
SIGN POST
A4-9

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/05/15 PLATE 406 A4-9.9

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E



SIDE VIEW

GENERAL NOTES

1. All 4 x 6 Wood Posts shall be modified by having two 1½" diameter holes drilled perpendicular to the roadway centerline.

7

7

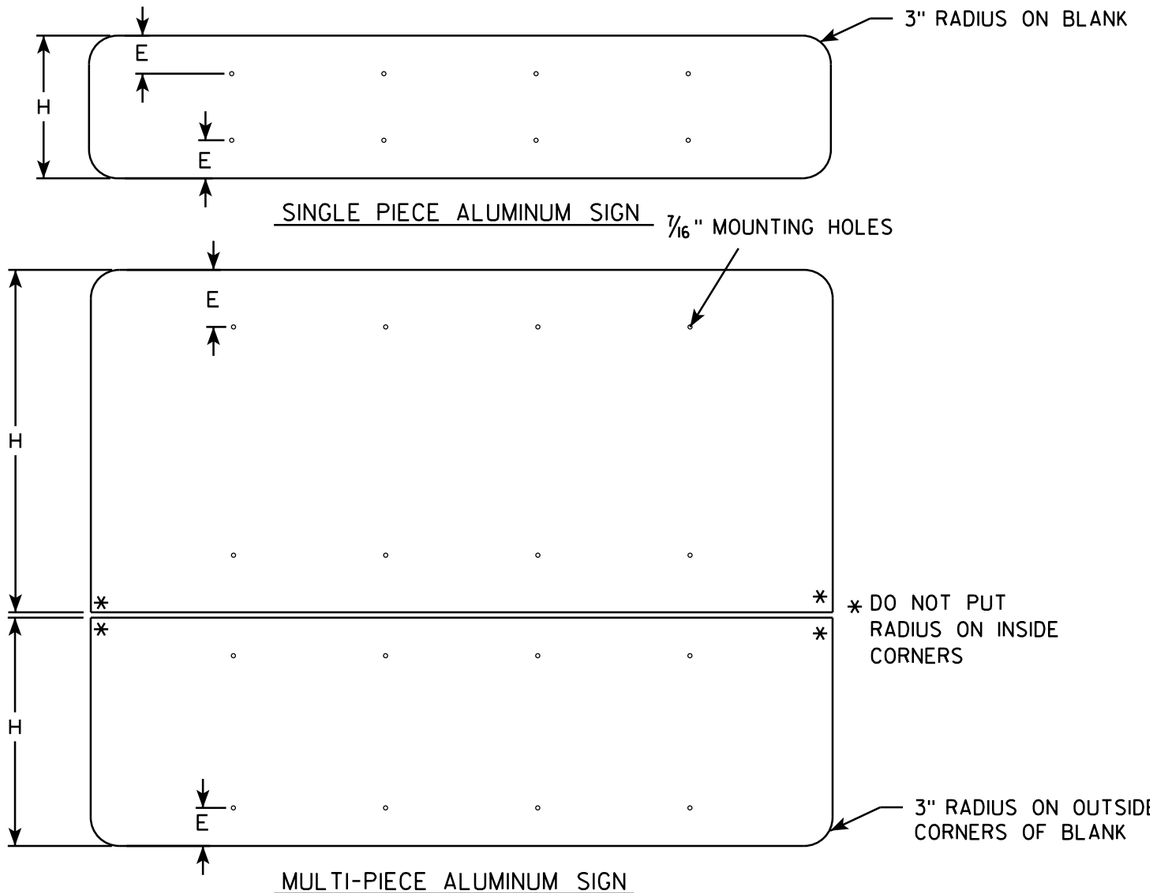
4 X 6 WOOD POST MODIFICATIONS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Chester J Spang for State Traffic Engineer

DATE 3/27/97 PLATE NO. A4-11.2

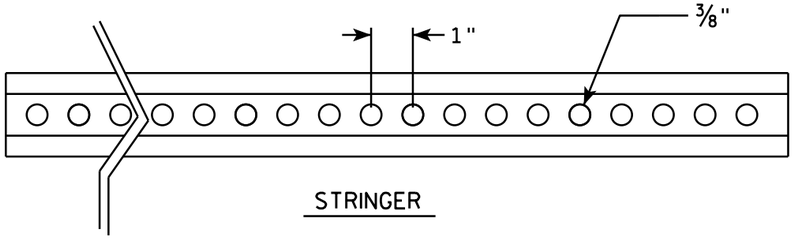
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 407	E



GENERAL NOTES

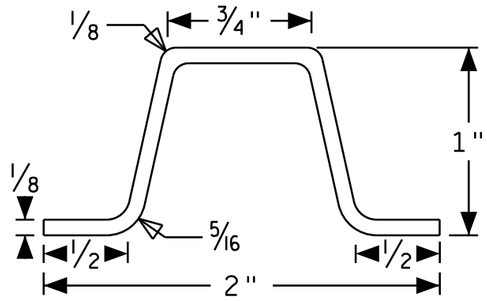
- ALL SIGNS OVER 60" IN WIDTH SHALL HAVE A 3" RADIUS ON THE OUTSIDE CORNERS OF THE ALUMINUM BLANK.
- MOUNTING HOLES SHALL BE 7/16" DIAMETER.
- SEE CHART FOR HOLE SPACING REQUIREMENTS
- FOR SIGN PANELS WITH DIMENSION (H) 36" AND OVER, DIMENSION E SHALL BE 6"
- FOR SIGN PANELS WITH DIMENSION (H) UNDER 36", DIMENSION E SHALL BE 4"
- SIGN STRINGER MATERIAL SHALL CONSIST OF STEEL CHANNEL POST SECTIONS, WEIGHING 1.12 LBS/FT IN ACCORDANCE WITH SECTION 633.2.1 OF THE STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION.
- SEE SIGN PLATE A4-8 FOR SIGN STRINGER BOLTING REQUIREMENTS.

SIGN WIDTH	STRINGER WIDTH	POSTS	HOLE SPACING	MOUNTING HOLES
78"	72"	2	16"	15" 31" 47" 63"
84"	72"	2	17"	16½" 33½" 50½" 67½"
90"	72"	2	18"	18" 36" 54" 72"
96"	90"	2	19"	19½" 38½" 57½" 76½"
102"	90"	2	20"	21" 41" 61" 81"
108"	90"	2	21"	22½" 43½" 64½" 85½"
114"	108"	3	15"	12" 27" 42" 57" 72" 87" 102"
120"	108"	3	16"	12" 28" 44" 60" 76" 92" 108"
126"	108"	3	17"	12" 29" 46" 63" 80" 97" 114"
132"	126"	3	18"	12" 30" 48" 66" 84" 102" 120"
138"	126"	3	19"	12" 31" 50" 69" 88" 107" 126"
144"	126"	3	20"	12" 32" 52" 72" 92" 112" 132"

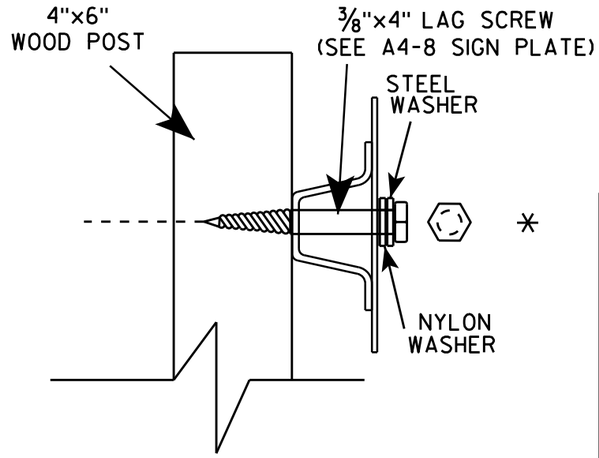


STRINGER

CROSS SECTION VIEW OF CHANNEL



POST MOUNTING



SIGN STRINGER MOUNTING REQUIREMENTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch

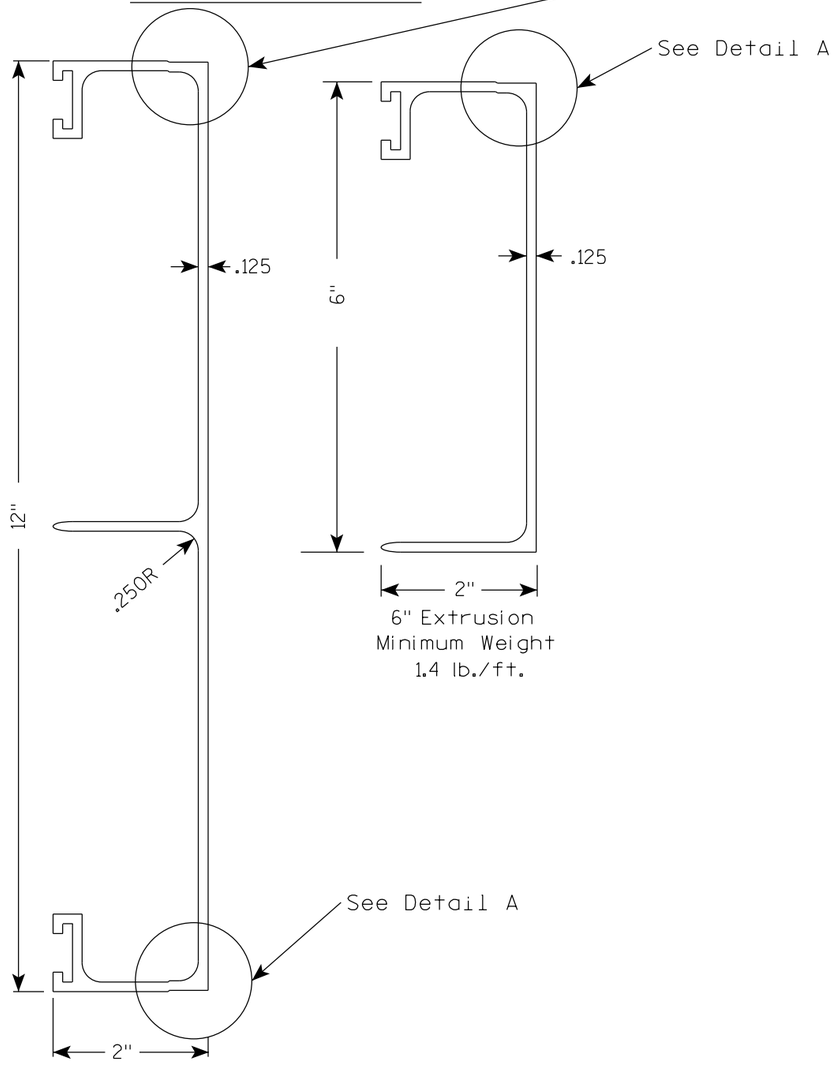
for State Traffic Engineer

DATE 4/26/16 PLATE NO A4-18.1

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\A418.dgn PLOT DATE : 27-APR-2016 13:56 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 41.805205:1.000000

Extruded Shape

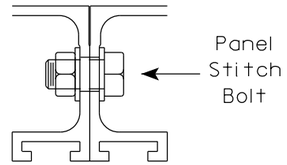


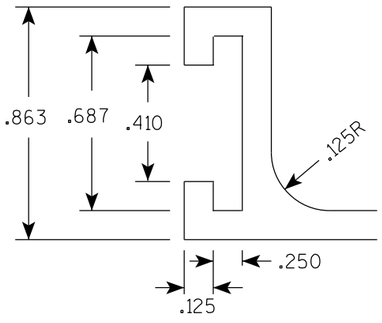
Hardware

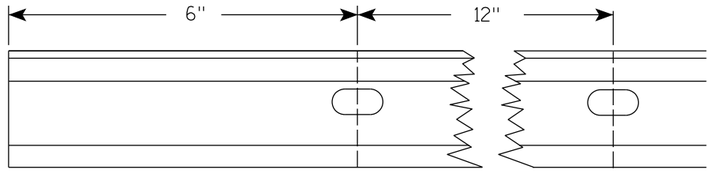
STITCH BOLT, WASHER & NUT

The hardware includes:

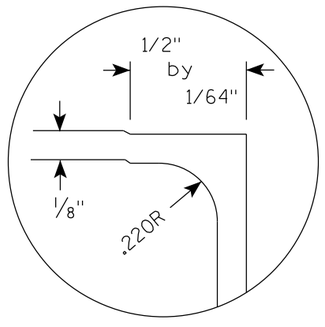
3/8 " - 16 X 3/4 " Economy Bolt 2024-T4 alloy
3/8 " - Stainless steel stop nut
3/8" X .064 Flat Washers, Alclad 2024-T4 alloy







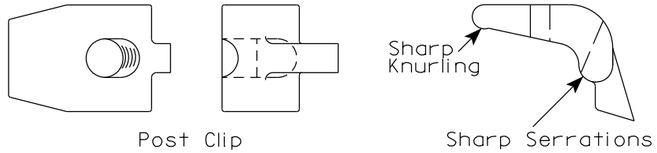
Punch 7/16" x 7/8" oval holes beginning 6" in from end of extrusion 12" CC on both edges of 6" and 12" panels.

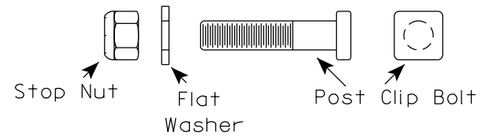


DETAIL A (EDGE WRAP JOINT)

POST CLIP, POST CLIP BOLT, WASHER & NUT

Post Clip shall be Alum. Alloy 356-T6
Post Clip Bolt shall be Stainless Steel.
Flat washer shall be 3/8" X .091, Stainless Steel.
Stop nut shall be stainless steel.





NOTES

1. The contractor may select any brand of extrusion that conforms to the illustrations or meets with the approval of the engineer, but all extrusions used on this contract shall be of the same brand.
2. Panel Stitch Bolts shall be used to assemble adjacent panels. Maximum stitch bolt spacing shall be 24" C-C, and a minimum of 4 bolts shall be used to connect any two extrusions.
3. Post Clips shall be used to attach the sign panel to the sign support.
4. Edge wrapping of sign sheeting required on all extrusions joints shown in Detail A.

ALUMINUM EXTRUSIONS FOR TYPE I SIGNS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
For State Traffic Engineer

DATE 1/07/20 PLATE NO. A5-2.10

PROJECT NO:

SHEET NO: 409 E

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A52.DGN PLOT DATE : 7-Jan-2020 PLOT BY : dotc4c

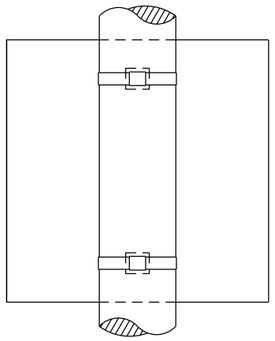
WISDOT/CADDS SHEET 42

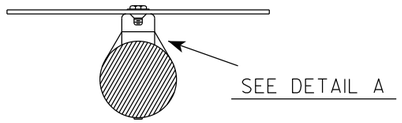
7

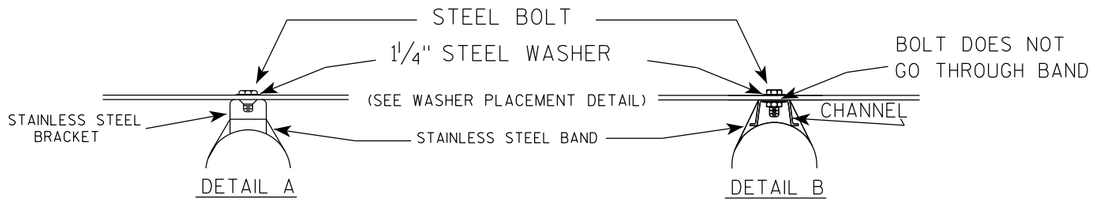
7

BANDING

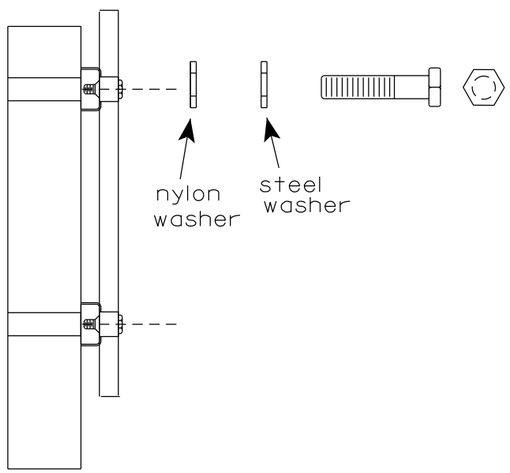
SINGLE SIGN







WASHER PLACEMENT

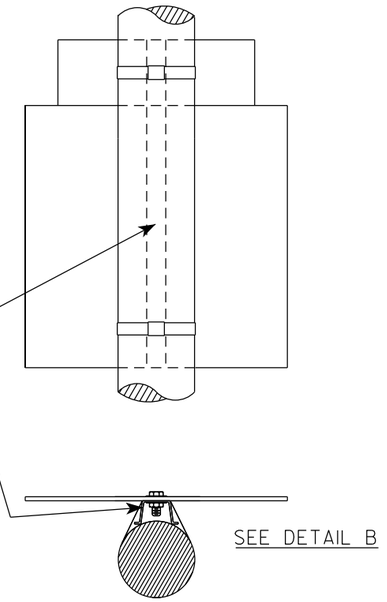


WASHERS (ALL POSTS) -
1-1/4" O.D. X 3/8" I.D. X 1/16" STEEL
1-1/4" O.D. X 3/8" I.D. X .080 NYLON
FOR ALL TYPE H SIGNS

GENERAL NOTES

1. Any sign over 3 feet in width shall use the V-Block banding method. See A5-10 standard plate.
2. Signs 3 feet or greater in height shall have three bracket bands installed. Signs less than 3 feet in height shall have two bracket bands installed.
3. Banding and assembly bracket shall be stainless steel. All bands shall be ¾" in width and 0.025" thickness.
4. ALL SIGN MOUNTING BOLTS AND WASHERS SHALL BE EITHER:
   a. Hot dip or mechanically galvanized in accordance with ASTM Designation: A 153, Class D
   b. Electro-galvanized in accordance with ASTM designation: B 633, Type III, SC 3

"J" ASSEMBLY



STANDARD SIGN
SIGN BANDING DETAILS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

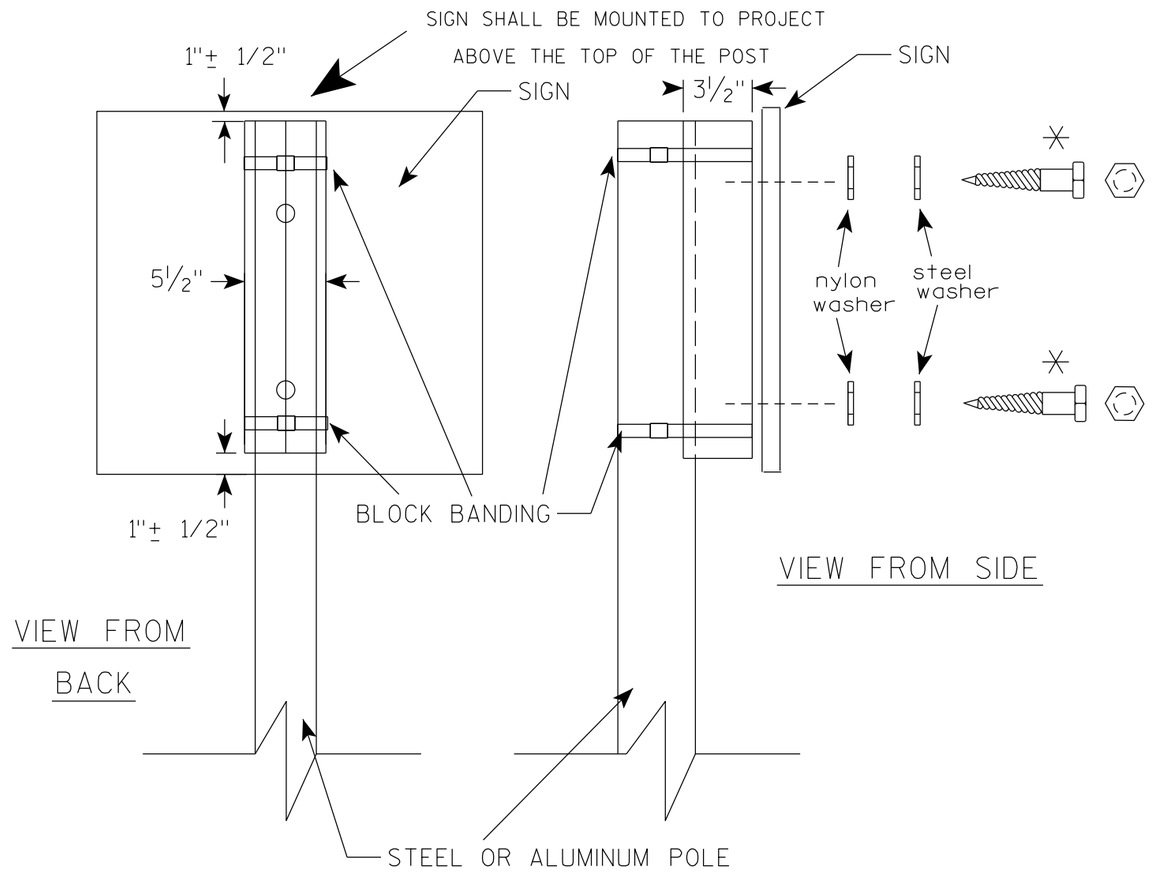
DATE 6/10/19 PLATE NO. A5-9.4

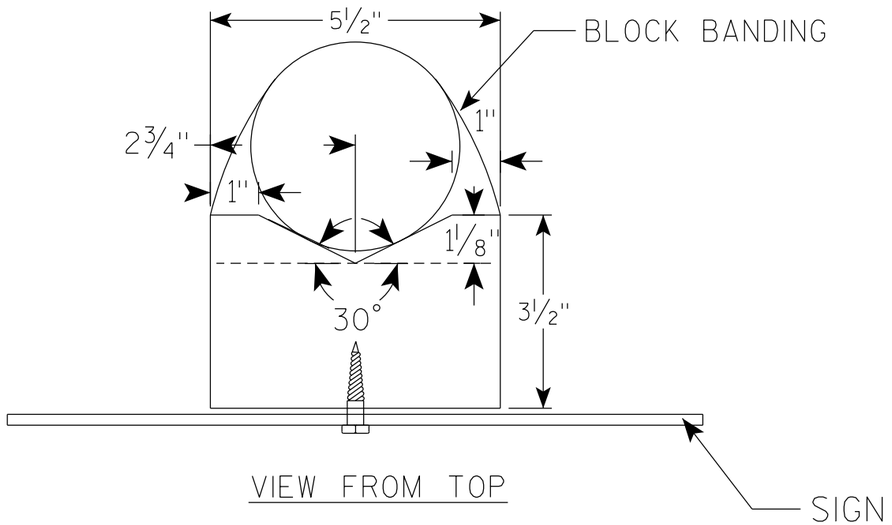
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 410	E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\A59.dgn PLOT DATE : 10-JUN 2019 4:10 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

7

7





GENERAL NOTES

1. WOOD 4"X6" POST MATERIAL SHALL CONFORM TO 507.2.2 OF THE WisDOT STANDARD SPECIFICATIONS
2. BLOCK BANDING AND CLIPS SHALL BE STAINLESS STEEL, ¾" WIDTH AND 0.025" THICKNESS
3. SIGNS 3' OR GREATER IN HEIGHT SHALL UTILIZE 3 BLOCK BANDS. SIGNS UNDER 3' IN HEIGHT SHALL UTILIZE 2 BLOCK BANDS
4. ACTUAL NUMBER OF FASTENERS PER SIGN VARIES WITH THE SIGN AREA, BUT NORNALLY THERE ARE TWO. FOR SIGNS GREATER THAN 9 S.F. 3 FASTENERS SHALL BE USED.
5. ALL SIGN MOUNTING BOLTS AND WASHERS SHALL BE EITHER:
   a. Hot dip or mechanically galvanized in accordance with ASTM Designation: A 153, Class D
   b. Electro-galvanized in accordance with ASTM Designation : B 633, TYPE III, SC 3
6. ALL BOLTS SHALL HAVE HEXAGONAL HEADS.
7. STEEL WASHERS SHALL BE 1¼" O.D. X ⅜" I.D. X 1/16"
8. NYLON WASHERS SHALL BE 1¼" O.D. X ⅜" I.D. X .080 FOR TYPE H OR TYPE F FACE SIGN

✳ LAG BOLTS SHALL BE ⅜" X 2½"

BLOCK BANDING DETAIL (V-BLOCK OPTION)

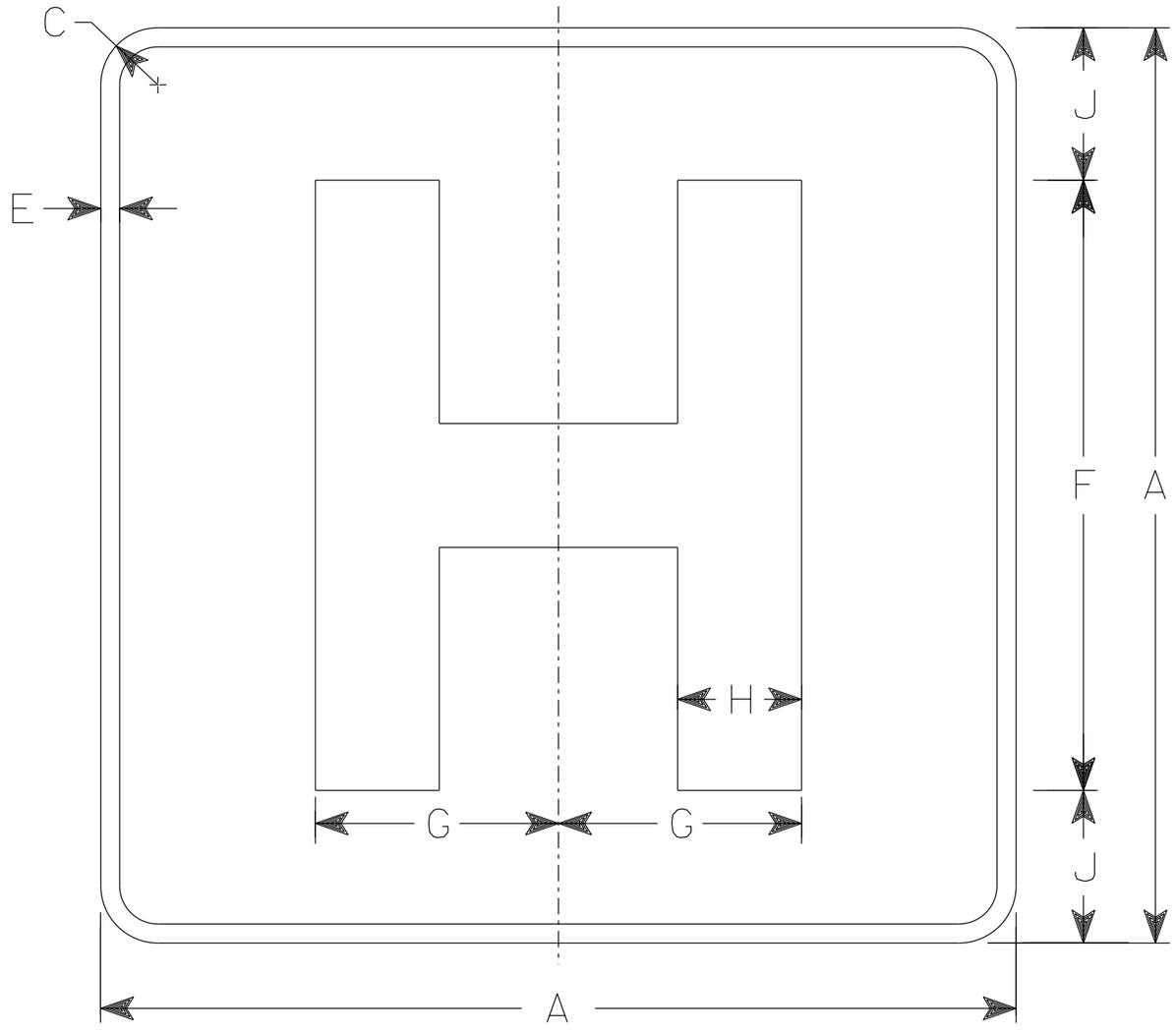
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 4/19/2022 PLATE NO. A5-10.3

PROJECT NO:

SHEET NO: 411 E



D9-2

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - Blue
   Message - White
3. Message Series - E Modified
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	18		1 1/2		1/2	12	4 3/4	2 3/8		3																	2.25
2S	24		1 1/2		1/2	16	6 3/8	3 1/4		4																	4.0
2M	24		1 1/2		1/2	16	6 3/8	3 1/4		4																	4.0
3	36		2 1/4		3/4	24	9 1/2	4 7/8		6																	9.0
4																											
5																											

STANDARD SIGN
D9-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
For State Traffic Engineer

DATE 1/25/2023 PLATE NO. D9-2.6

PROJECT NO:

SHEET NO: 412 E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\D92.dgn PLOT DATE : 25-JAN 2023 1:20 PLOT BY : dotc4c

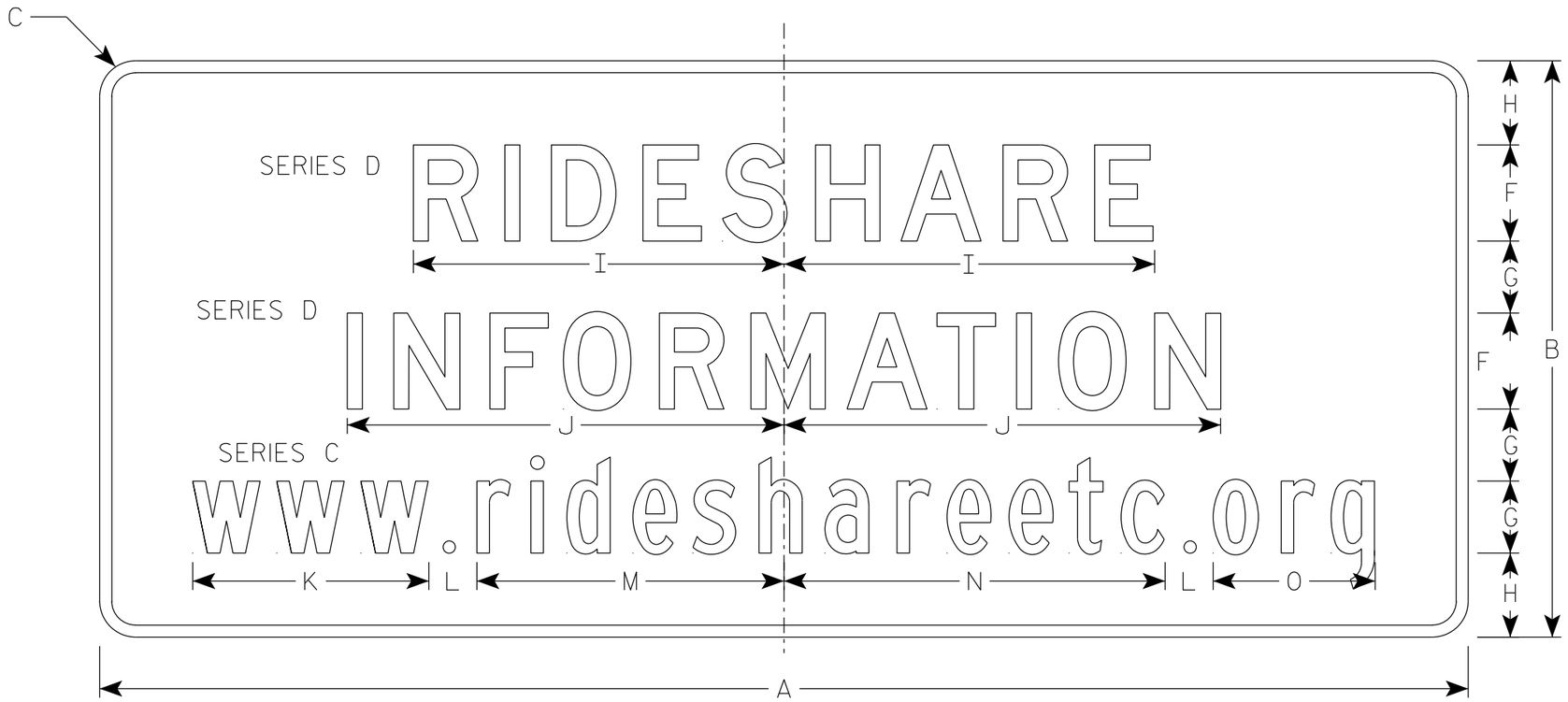
WISDOT/CADDS SHEET 42

7

7

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - Blue
   Message - White
3. Message Series - Lines 1 & 2 are Series D and Line 3 is Series C



D12-2B

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	84	36	2 1/4		3/4	6	4 1/2	5 1/4	24 1/4	28 5/8	14 3/4	3	19 1/4	23 7/8	10 1/8												21.0
2M	84	36	2 1/4		3/4	6	4 1/2	5 1/4	24 1/4	28 5/8	14 3/4	3	19 1/4	23 7/8	10 1/8												21.0
3	84	36	2 1/4		3/4	6	4 1/2	5 1/4	24 1/4	28 5/8	14 3/4	3	19 1/4	23 7/8	10 1/8												21.0
4	114	48	3		1	8	6	7	30 7/8	36 3/8	19 3/4	4 1/4	25 5/8	31 3/4	13 1/2												38.0
5	114	48	3		1	8	6	7	30 7/8	36 3/8	19 3/4	4 1/4	25 5/8	31 3/4	13 1/2												38.0

STANDARD SIGN
D12-2B

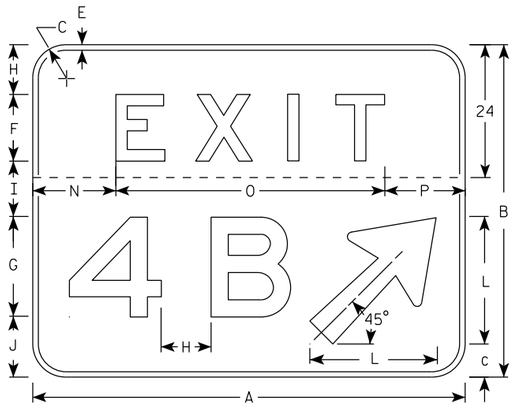
WISCONSIN DEPT OF TRANSPORTATION

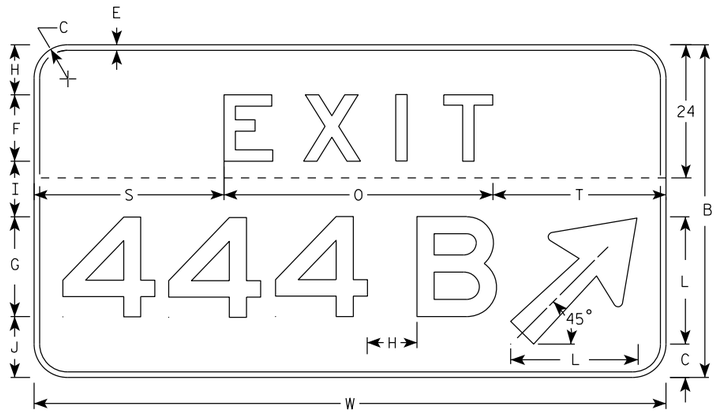
APPROVED Matthew R Rauch
For State Traffic Engineer

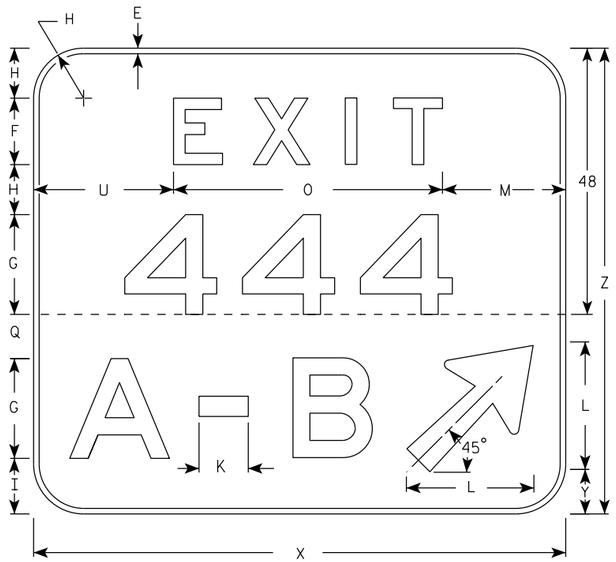
DATE 3/6/24 PLATE NO. D12-2B.4

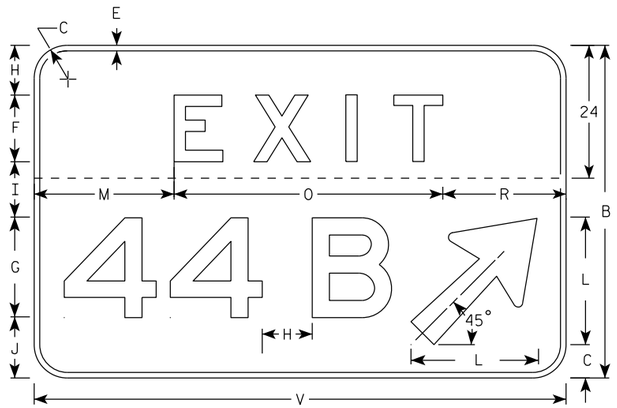
PROJECT NO:

SHEET NO: 413 E

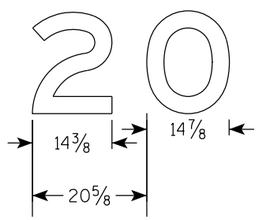








EXAMPLE FOR USING SPACING CHART



NOTES

1. Signs are Type II - Type H reflective
2. Color:
   Background - Green
   Message - White
3. Message Series - E
4. Sign shall be split into two seperate pieces as shown on each detail by the dashed line (- - - - - - - - - -).
5. Arrow is Type "A" from sign plate A1-1.
6. Substitute appropriate message, space per the table and adjust placement on sign to achieve proper balance.
7. When two letters are hyphenated, the distance between them should be equal to two letter heights and the hyphen is spaced optically between them.
8. As per the Standard Spec's, these signs shall not have a vertical joint.

SPACING CHART FOR 18" NUMERALS

NUMBERS	WIDTH	0	1	2	3	4	5	6	7	8	9	A	B	C
0	14 7/8	21 5/8	21 5/8	21 1/4	20 3/8	21 1/4	21 1/4	21 5/8	19 7/8	22 1/8	21 5/8	19 7/8	22 1/8	22 1/8
1	5 7/8	14	14	14	13 1/8	12 1/8	14	14	12 1/4	14	14	9 7/8	14	14
2	14 3/8	20 5/8	21 1/8	20 5/8	19 3/4	20 1/4	20 5/8	20 5/8	18 7/8	21 1/8	20 5/8	20 1/4	21 1/8	21 1/8
3	14 3/8	20 3/4	21 1/8	20 3/4	20 1/4	19 3/4	20 3/4	20 3/4	19 3/8	21 1/8	20 3/4	20 1/4	21 1/8	21 1/8
4	16 5/8	22 7/8	22	22 1/2	21 5/8	21 5/8	22 7/8	22 7/8	20 5/8	23 3/8	22 7/8	22 1/2	25 1/2	23 3/8
5	14 1/4	20 5/8	20 5/8	20 1/8	18 3/4	18 3/4	20 5/8	20 5/8	18 3/8	20 5/8	20 5/8	19 1/4	20 5/8	20 5/8
6	14 1/2	21 1/4	20 3/4	20 3/4	19 7/8	19 1/2	20 3/8	20 3/4	19	20 3/4	20 3/8	18	20 3/4	20 3/4
7	14 3/8	19 3/4	19 3/4	20 1/4	19 3/4	17	19 3/4	20 5/8	18 7/8	20 5/8	19 3/4	20 1/4	20 5/8	20 5/8
8	14 1/4	21 1/2	21 1/2	20 5/8	19 1/4	19 3/4	20 5/8	21 1/2	19 5/8	21 1/2	20 5/8	19 1/4	21 1/2	21 1/2
9	14 1/2	21 1/4	21 1/4	20 7/8	20	20 7/8	20 7/8	21 1/4	19 1/2	21 3/4	21 1/4	18	21 3/4	21 3/4
A	18	19 3/4	19 3/4	20 1/4	19 3/4	17	19 3/4	20 5/8	18 7/8	20 5/8	19 3/4	21 5/8	23 7/8	23
B	14 1/4	21 1/2	21 1/2	20 5/8	19 1/4	19 3/4	20 5/8	21 1/2	19 5/8	21 1/2	20 5/8	19 1/2	22 3/8	21 1/2
C	14 1/4	21 1/4	21 1/4	20 7/8	20	20 7/8	20 7/8	21 1/4	19 1/2	21 3/4	21 1/4	18 3/8	21	19 3/4

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z
2																										
3																										
4																										
5	78	60	6		1	12	18	8	10	11	8 7/8	23	25 1/4	15	48 1/2	14 1/2	8	22 1/4	34 1/4	31 1/4	25 1/4	96	114	96	7 1/2	84

2 Digit Bid Area	3 Digit Bid Area	4 Digit Bid Area	5 Digit Bid Area
Sq. Ft.			
32.5	40.0	47.5	56.0

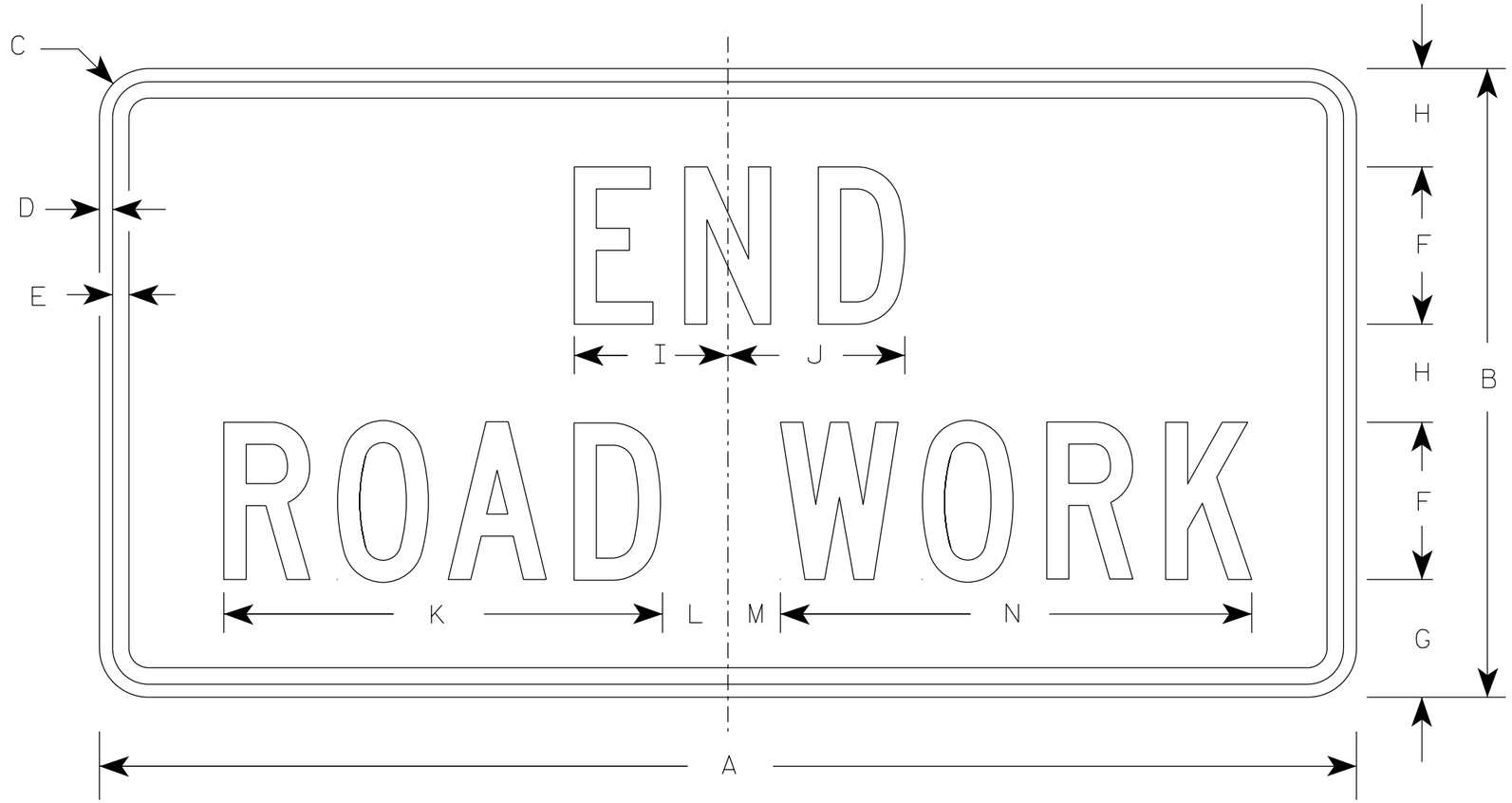
STANDARD SIGN
E5-1B

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/9/2022 PLATE NO. E5-1B.14

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 414 | E



G20-2A

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36	18	1 1/2	3/8	1/2	4	3 3/4	2 1/2	4 1/8	4 1/8	11 1/8	2	1	12 1/8													4.5
2	48	24	1 7/8	1/2	5/8	6	4 1/2	3 3/4	5 7/8	6 3/4	16 3/4	2 1/2	1 3/4	18 1/2													8.0
2M	48	24	1 7/8	1/2	5/8	6	4 1/2	3 3/4	5 7/8	6 3/4	16 3/4	2 1/2	1 3/4	18 1/2													8.0
3	48	24	1 7/8	1/2	5/8	6	4 1/2	3 3/4	5 7/8	6 3/4	16 3/4	2 1/2	1 3/4	18 1/2													8.0
4	48	24	1 7/8	1/2	5/8	6	4 1/2	3 3/4	5 7/8	6 3/4	16 3/4	2 1/2	1 3/4	18 1/2													8.0
5	48	24	1 7/8	1/2	5/8	6	4 1/2	3 3/4	5 7/8	6 3/4	16 3/4	2 1/2	1 3/4	18 1/2													8.0

STANDARD SIGN

G20-2A

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

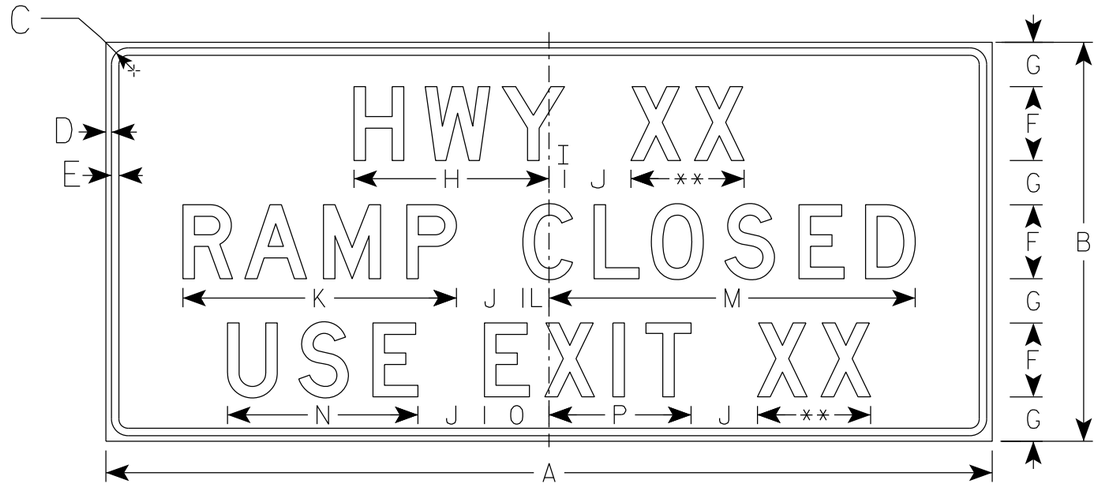
DATE 1/26/2023 PLATE NO. G20-2A.10

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 415 E

7

NOTES

1. Sign is Type II- Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Message Series - D
4. Substitute appropriate Highway Number and Exit Number and optically center message



G20-56

** See Note 4

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2																											
3																											
4	120	54	3	¾	1	10	6	26 ⅜	2 ⅛	9	37	3 ½	49 ⅝	25 ¾	8 ¾	19 ¼											45.0
5	120	54	3	¾	1	10	6	26 ⅜	2 ⅛	9	37	3 ½	49 ⅝	25 ¾	8 ¾	19 ¼											45.0

STANDARD SIGN
G20-56

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch for State Traffic Engineer

DATE 6/19/18 PLATE NO. G20-56.1

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 416 | E

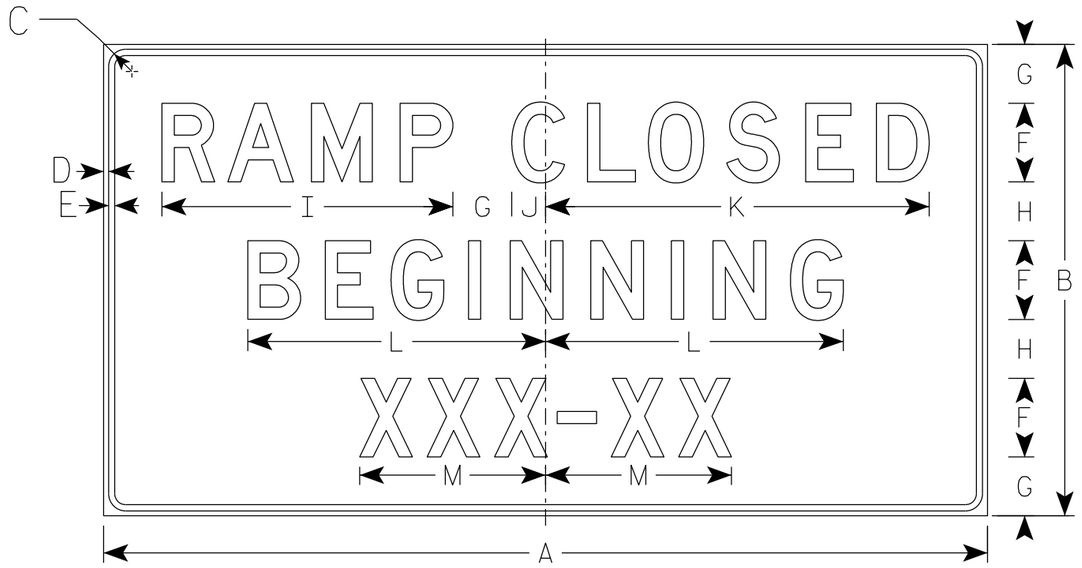
FILE NAME : STDPLATE_G2056.dgn PLOT DATE : 19-JUN-2018 2:28 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

7

7

NOTES

1. Sign is Type II- Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Message Series - D



G20-58

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	72	36	1 5/8	5/8	3/4	6	5	4	22 1/4	2 3/8	29 1/2	22 3/4	14 1/4														18.0
3	90	48	1 5/8	5/8	3/4	8	6	6	29 5/8	3 3/8	39	30 3/8	19														30.0
4																											
5																											

STANDARD SIGN
G20-58

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 10/19/2020 PLATE NO. G20-58.2

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 417 | E

NOTES

1. Sign is Type II- Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Message Series - E
4. Material shall be .040 aluminmum



G20-60

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2																											
3																											
4	108	24				12	6	14 7/8	78 1/4																		18.0
5																											

STANDARD SIGN
G20-60

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/13/15 PLATE NO G20-60.1

PROJECT NO: | HWY: | COUNTY: | SHEET NO: E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\G2060.DGN PLOT DATE : 13-MAY-2015 08:46 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 20.431338:1.000000
WISDOT/CADDS SHEET 42

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Message Series - E



G20-61

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2																											
3																											
4	120	30	6		2	12	9	21	78 1/4	20 3/4																	25.0
5																											

STANDARD SIGN
G20-61

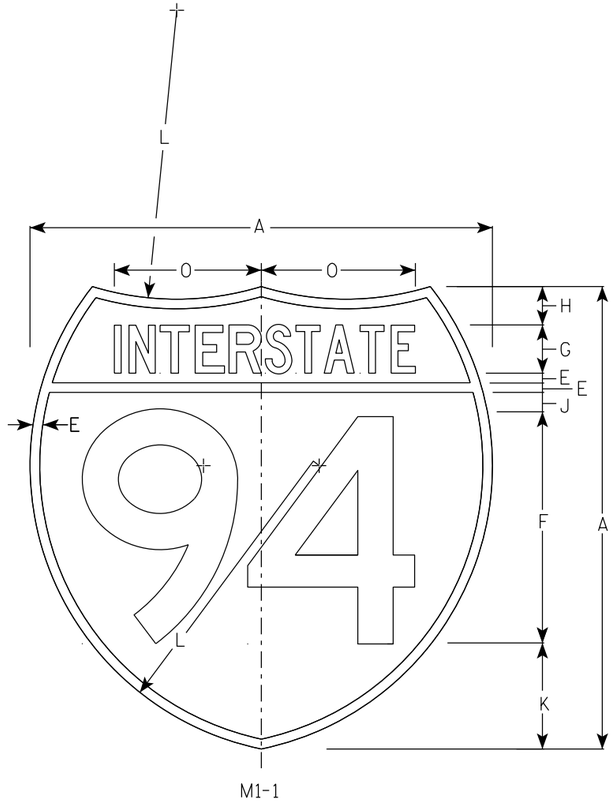
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

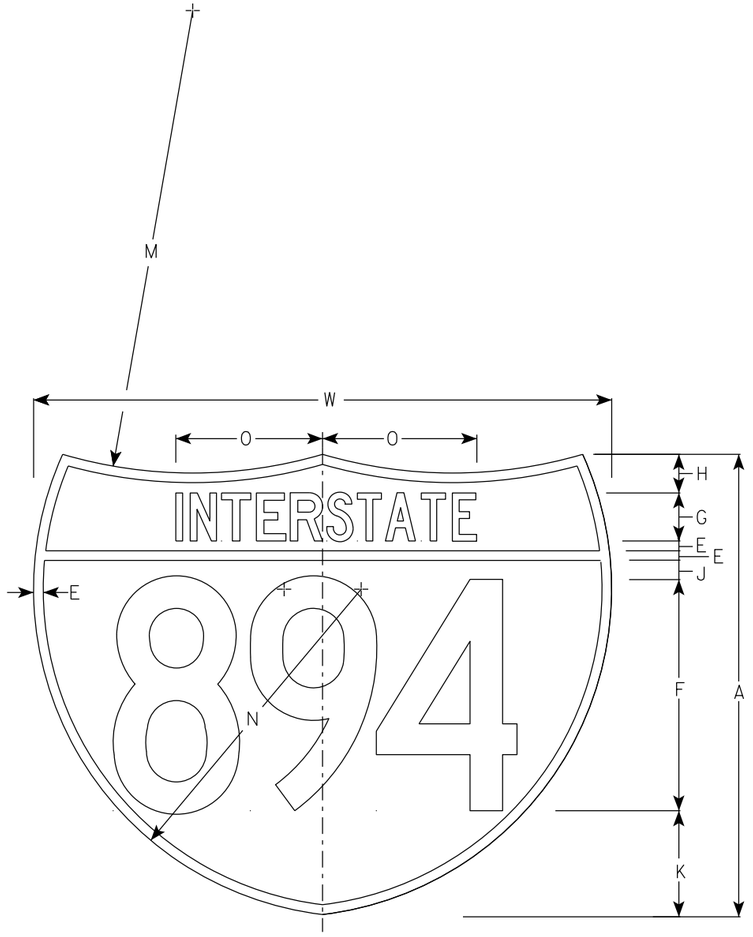
DATE 5/07/15 PLATE NO G20-61.1

PROJECT NO: | HWY: | COUNTY: | SHEET NO: E

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\G2061.DGN PLOT DATE : 07-MAY-2015 13:47 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 20.431338:1.000000 WISDOT/CADDS SHEET 42



M1-1



M1-1A

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - Top Red - Bottom Blue
   Message - White
3. Message Series - See note 5
4. Substitute appropriate numerals & ajust spacing as per plate A10-1.
5. M1-1 - Numerals - D
   Interstate - C
   M1-1A - All copy - C

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	M1-1 Area sq. ft.	M1-1A Area sq. ft.
1																											
2	24				1/2	12	2 1/2	2		1	5 1/2	15	24	17	7 7/8								30			3.13	3.91
2M	24				1/2	12	2 1/2	2		1	5 1/2	15	24	17	7 7/8								30			3.13	3.91
3	36				3/4	18	3 3/4	3		1 1/2	8 1/4	22 1/2	36	25 1/2	11 3/4								45			7.03	8.79
4	36				3/4	18	3 3/4	3		1 1/2	8 1/4	22 1/2	36	25 1/2	11 3/4								45			7.03	8.79
5	36				3/4	18	3 3/4	3		1 1/2	8 1/4	22 1/2	36	25 1/2	11 3/4								45			7.03	8.79

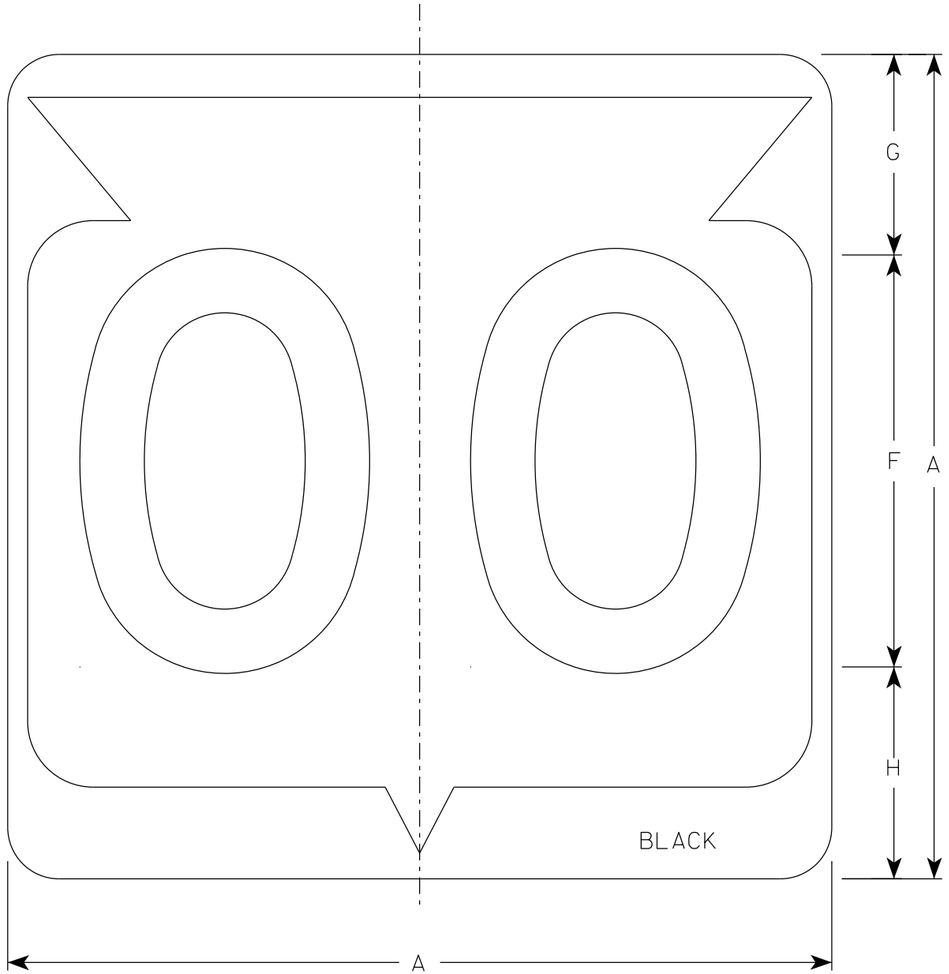
INTERSTATE ROUTE MARKER M1-1 FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
For State Traffic Engineer

DATE 11/7/2022 PLATE NO. M1-1.9

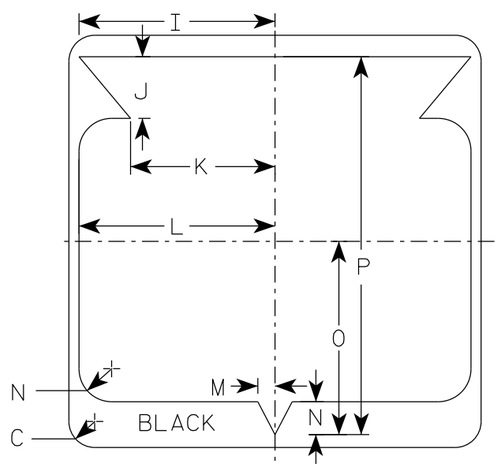
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 420 | E



M1-6

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - D except 3 number signs Series C



SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24		1 1/2			12	5 1/2	6 1/2	10 1/4	2 1/2	8 7/8	11 1/2	1	1 7/8	11 1/4	21 7/8											4.0
2M	24		1 1/2			12	5 1/2	6 1/2	10 1/4	2 1/2	8 7/8	11 1/2	1	1 7/8	11 1/4	21 7/8											4.0
3	36		2 1/4			18	8 3/4	9 1/4	15 3/8	5 3/8	12 5/8	17 1/8	1 1/2	2 7/8	16 7/8	33											9.0
4	36		2 1/4			18	8 3/4	9 1/4	15 3/8	5 3/8	12 5/8	17 1/8	1 1/2	2 7/8	16 7/8	33											9.0
5	36		2 1/4			18	8 3/4	9 1/4	15 3/8	5 3/8	12 5/8	17 1/8	1 1/2	2 7/8	16 7/8	33											9.0

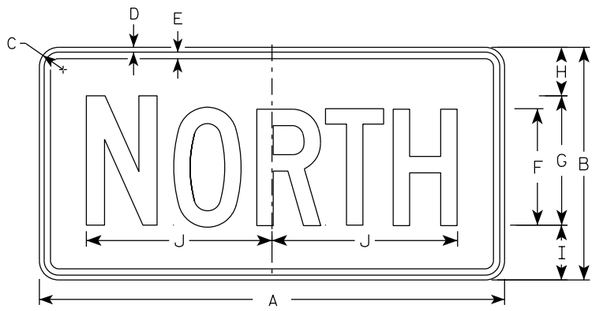
STATE ROUTE MARKER
M1-6 FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

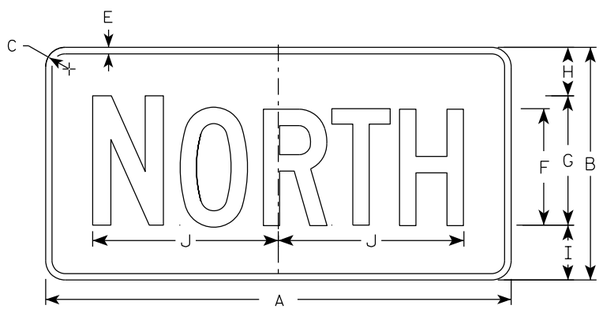
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/8/2022 PLATE NO. M1-6.11

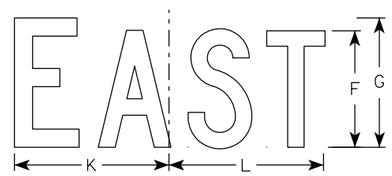
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 421	E



M3-1
MM3-1
MP3-1



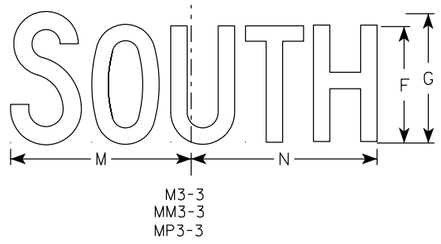
MB3-1
MK3-1
MN3-1



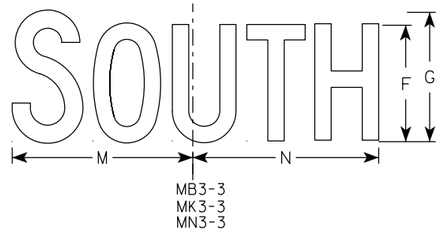
M3-2
MM3-2
MP3-2



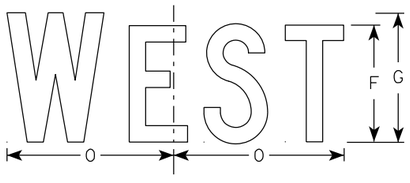
MB3-2
MK3-2
MN3-2



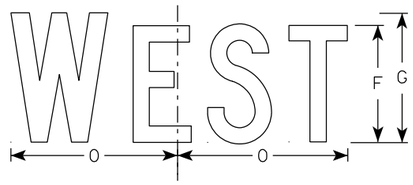
M3-3
MM3-3
MP3-3



MB3-3
MK3-3
MN3-3



M3-4
MM3-4
MP3-4



MB3-4
MK3-4
MN3-4

NOTES

1. All Signs Type II - Type H Reflective
2. Color:
   Background - See note 5
   Message - See note 5
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. M3-1 thru M3-4 Background - White
   Message - Black
   MB3-1 thru MB3-4 Background - Blue
   Message - White
   MK3-1 thru MK3-4 Background - Green
   Message - White
   MM3-1 thru MM3-4 Background - White
   Message - Green
   MN3-1 thru MN3-4 Background - Brown
   Message - White
   MP3-1 thru MP3-4 Background - White
   Message - Blue
6. Note the first letter of each direction is larger than the remainder of the message.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	24	12	1 1/2	3/8	3/8	6	7	2 1/4	2 3/4	10 1/4	7 7/8	8 3/8	10 1/4	9 3/4	8 3/4												2.00
2M	24	12	1 1/2	3/8	3/8	6	7	2 1/4	2 3/4	10 1/4	7 7/8	8 3/8	10 1/4	9 3/4	8 3/4												2.00
3	36	18	1 1/2	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13												4.5
4	36	18	1 1/2	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13												4.5
5	36	18	1 1/2	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13												4.5

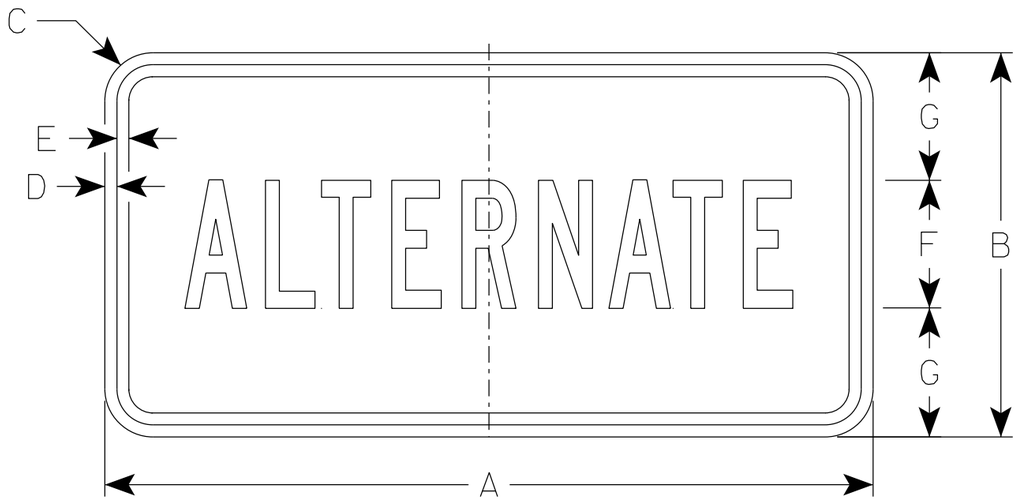
STANDARD SIGNS
M3-1 THRU M3-4
SERIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
For State Traffic Engineer

DATE 2/8/2023 PLATE NO. M3-1.15

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 422 | E



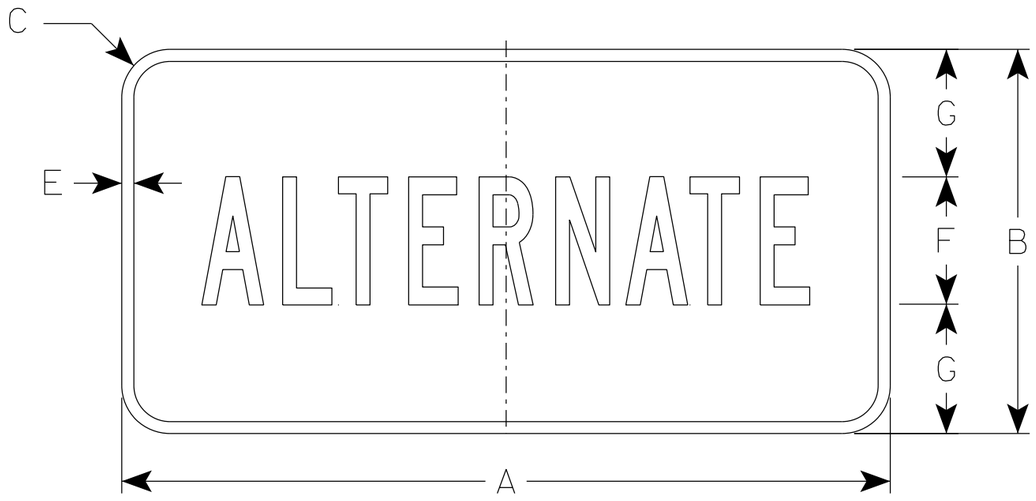
M4-1
MO4-1

NOTES

1. Sign is Type II - Type H Reflective except as Shown
2. Color:
   Background - See Note 5
   Message - See note 5
3. Message Series - B
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. M4-1 Background - White
   Message - Black

   MB4-1 Background - Blue
   Message - White

   MO4-1 Background - Orange - Type F Reflective
   Message - Black



MB4-1

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	24	12	1 1/2	3/8	3/8	4	4	9 3/4	9 1/2																		2.00
2M	24	12	1 1/2	3/8	3/8	4	4	9 3/4	9 1/2																		2.00
3	36	18	1 1/2	3/8	1/2	7	5 1/2	16 3/8	16 1/2																		4.5
4	36	18	1 1/2	3/8	1/2	7	5 1/2	16 3/8	16 1/2																		4.5
5	36	18	1 1/2	3/8	1/2	7	5 1/2	16 3/8	16 1/2																		4.5

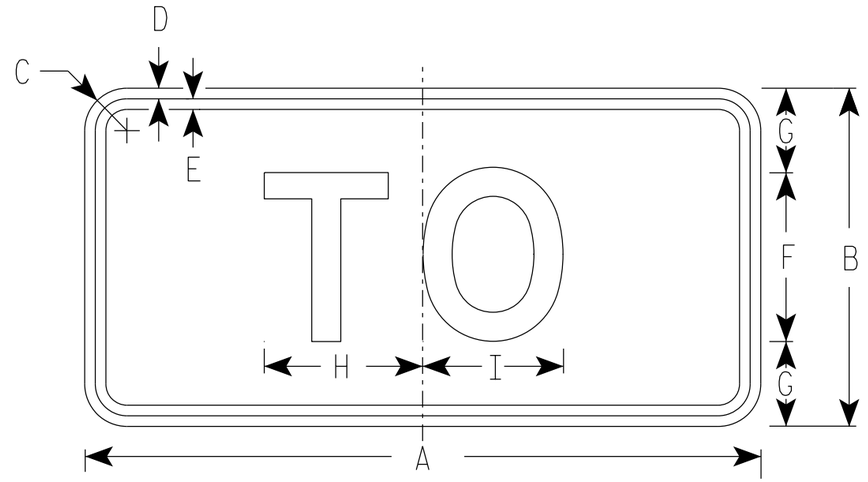
STANDARD SIGN
M4-1

WISCONSIN DEPT OF TRANSPORTATION

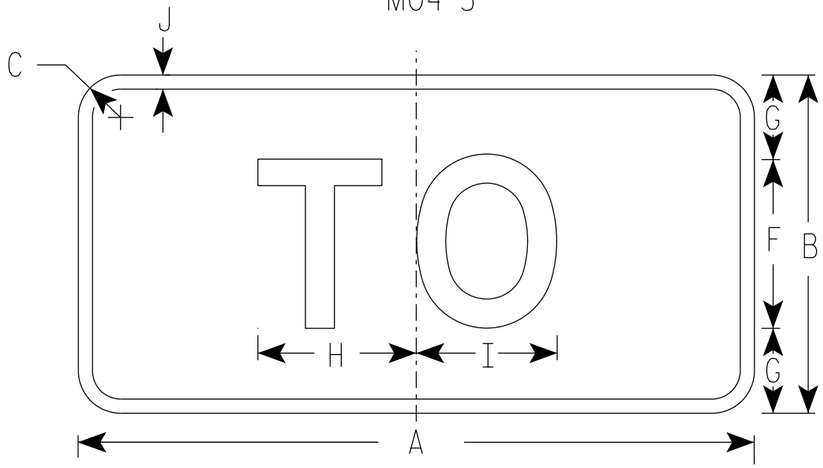
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/8/2023 PLATE NO. M4-1.10

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 423 | E



M4-5
MM4-5
MP4-5
M04-5



MB4-5
MK4-5
MN4-5

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - See note 5
   Message - See note 5
3. Message Series - E
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. M4-5 Background - White
   Message - Black

   MB4-5 Background - Blue
   Message - White

   MK4-5 Background - Green
   Message - White

   MM4-5 Background - White
   Message - Green

   MN4-5 Background - Brown
   Message - White

   MP4-5 Background - White
   Message - Blue

   M04-5 Background - Orange Type F Reflective
   Message - Black

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	24	12	1 ½	⅜	⅜	6	3	5 ⅜	5 ¼	½																	2.00
2M	24	12	1 ½	⅜	⅜	6	3	5 ⅜	5 ¼	½																	2.00
3	36	18	1 ½	⅜	½	9	4 ½	8 ¼	8 ⅜	½																	4.5
4	36	18	1 ½	⅜	½	9	4 ½	8 ¼	8 ⅜	½																	4.5
5	36	18	1 ½	⅜	½	9	4 ½	8 ¼	8 ⅜	½																	4.5

STANDARD SIGN
M4-5

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

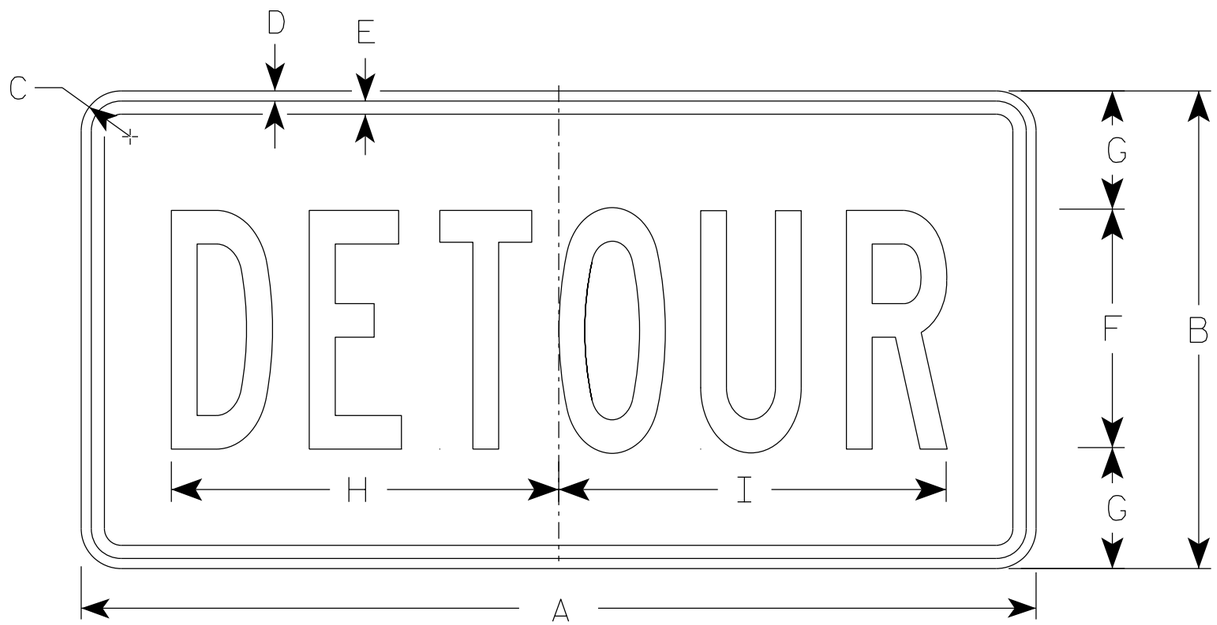
DATE 2/8/2023 PLATE NO. M4-5.11

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 424 E

7

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Message Series - B
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



M4-8

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24	12	1 1/2	3/8	3/8	6	3	10	10 1/4																		2.0
2M	24	12	1 1/2	3/8	3/8	6	3	10	10 1/4																		2.0
3	36	18	1 1/2	3/8	1/2	9	4 1/2	14 5/8	14 1/2																		4.5
4	36	18	1 1/2	3/8	1/2	9	4 1/2	14 5/8	14 1/2																		4.5
5	36	18	1 1/2	3/8	1/2	9	4 1/2	14 5/8	14 1/2																		4.5

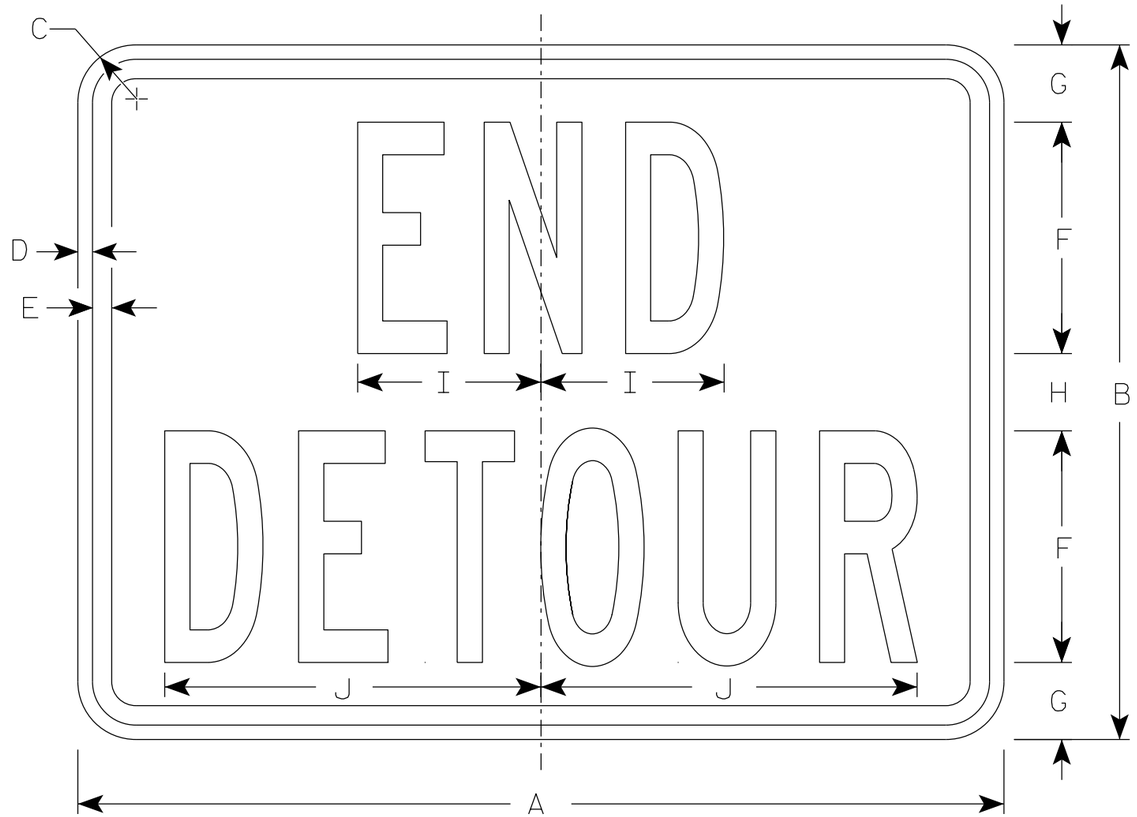
STANDARD SIGN
M4-8

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/9/2023 PLATE NO. M4-8.4

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 425	E



M4-8A

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Message Series - B
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24	18	1 ½	⅜	½	6	2	2	4 ¾	9 ¾																	3.0
2M	24	18	1 ½	⅜	½	6	2	2	4 ¾	9 ¾																	3.0
3	30	24	1 ½	⅜	½	8	2 ½	3	6 ¾	13																	5.0
4	30	24	1 ½	⅜	½	8	2 ½	3	6 ¾	13																	5.0
5	30	24	1 ½	⅜	½	8	2 ½	3	6 ¾	13																	5.0

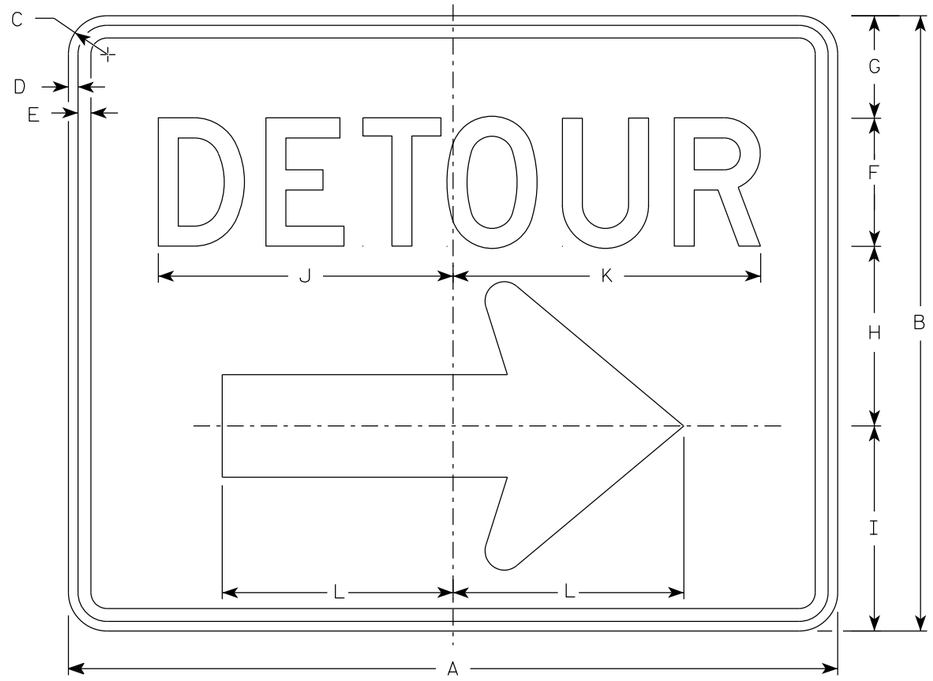
STANDARD SIGN
M4-8A

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/9/2023 PLATE NO. M4-8A.4

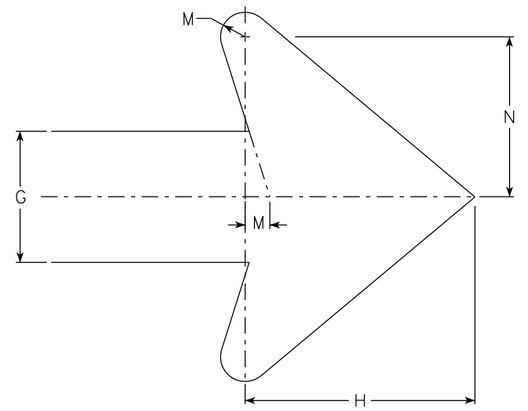
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 426 | E



M4-9R

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. M4-9L is the same as M4-9R except the arrow is reversed.



Arrow Detail

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	30	24	1 1/2	3/8	1/2	5	4	7	8	11 1/2	12	9	3/4	4 7/8													5.00
2M	30	24	1 1/2	3/8	1/2	5	4	7	8	11 1/2	12	9	3/4	4 7/8													5.00
3	30	24	1 1/2	3/8	1/2	5	4	7	8	11 1/2	12	9	3/4	4 7/8													5.00
4	48	36	1 7/8	1/2	5/8	8	6	10 1/2	11 5/8	20 5/8	20 1/2	13 1/4	1 1/8	6 7/8													12.0
5	48	36	1 7/8	1/2	5/8	8	6	10 1/2	11 5/8	20 5/8	20 1/2	13 1/4	1 1/8	6 7/8													12.0

STANDARD SIGN
M4-9 R & L

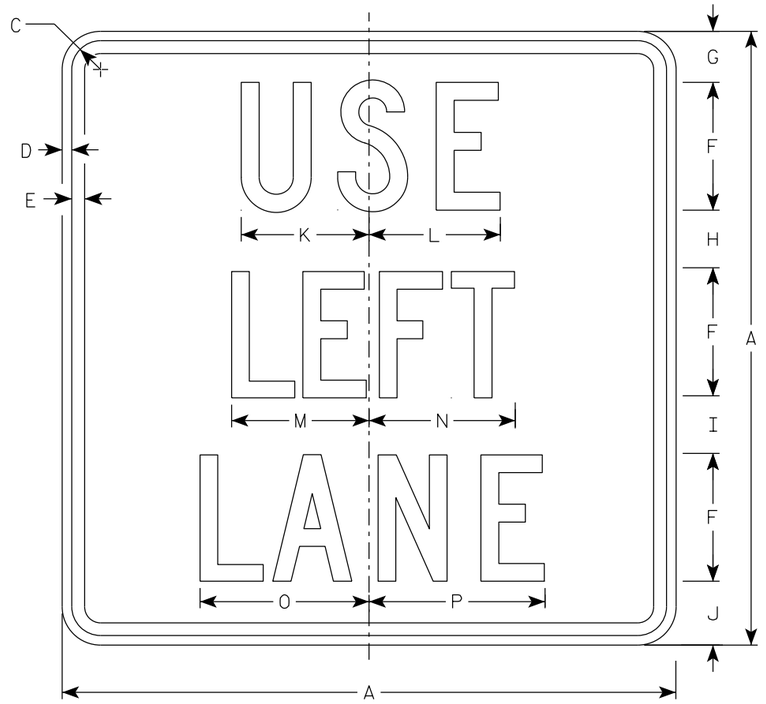
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
For State Traffic Engineer

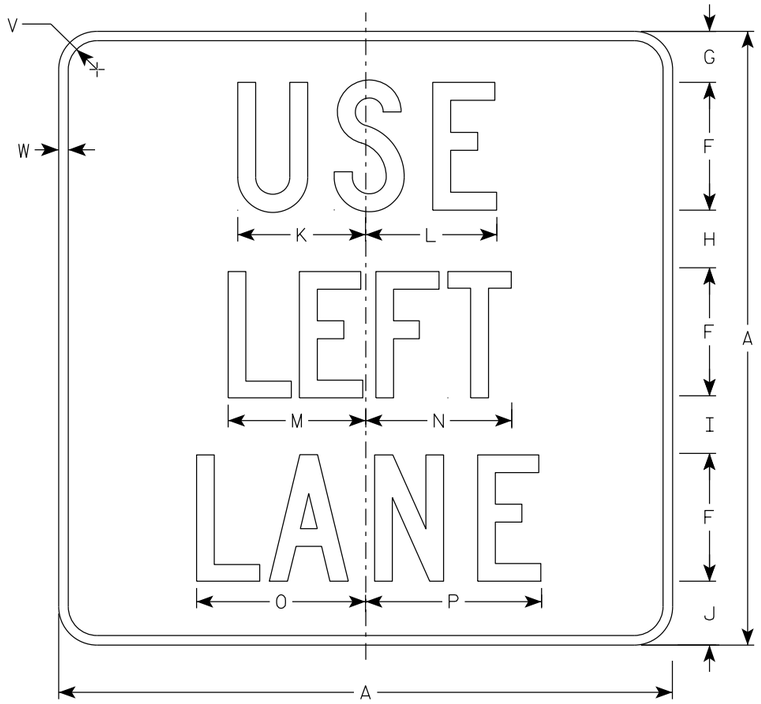
DATE 2/9/2023 PLATE NO. M4-9R.6

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

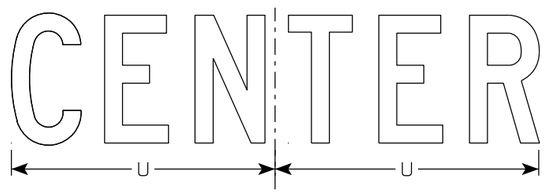
FILE NAME : C:\CAEfiles\Projects\tr_stdplate\M49R.dgn PLOT DATE : 21-MARCH 2023 1:40 PLOT BY : dotc4c PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42



M4-20L
MM4-20L
MO4-20L
MP4-20L

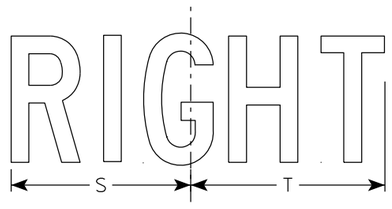


MB4-20L
MK4-20L
MN4-20L
MR4-20L



M4-20C
MB4-20C
MK4-20C
MM4-20C

MN4-20C
MO4-20C
MP4-20C
MR4-20C



M4-20R
MB4-20R
MK4-20R
MM4-20R

MN4-20R
MO4-20R
MP4-20R
MR4-20R

NOTES

1. Sign is Type II - Type H except as Shown
2. Color:
   Background - See note 5
   Message - See note 5
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. M4-20 Background - White
   Message - Black
   MB4-20 Background - Blue
   Message - White
   MK4-20 Background - Green
   Message - White
   MM4-20 Background - White
   Message - Green
   MN4-20 Background - Brown
   Message - White
   MO4-20 Background - Orange - Type F Reflective
   Message - Black
   MP4-20 Background - White
   Message - Blue
   MR4-20 Background - Brown
   Message - Yellow

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	24		1 1/2	3/8	1/2	5	2	2 1/4	2 1/4	2 1/2	5	5 1/8	5 3/8	5 3/4	6 5/8	6 7/8			7	7 5/8	10 1/4	1 1/2	1/2				4.0
2M	24		1 1/2	3/8	1/2	5	2	2 1/4	2 1/4	2 1/2	5	5 1/8	5 3/8	5 3/4	6 5/8	6 7/8			7	7 5/8	10 1/4	1 1/2	1/2				4.0
3	36		2 1/4	5/8	3/4	7	4	3	3 1/2	4 1/2	7 1/2	7 3/4	8	8 5/8	9 7/8	10 1/4			10 3/8	11 3/8	14 3/8	1 7/8	1/2				9.0
4	36		2 1/4	5/8	3/4	7	4	3	3 1/2	4 1/2	7 1/2	7 3/4	8	8 5/8	9 7/8	10 1/4			10 3/8	11 3/8	14 3/8	1 7/8	1/2				9.0
5	36		2 1/4	5/8	3/4	7	4	3	3 1/2	4 1/2	7 1/2	7 3/4	8	8 5/8	9 7/8	10 1/4			10 3/8	11 3/8	14 3/8	1 7/8	1/2				9.0

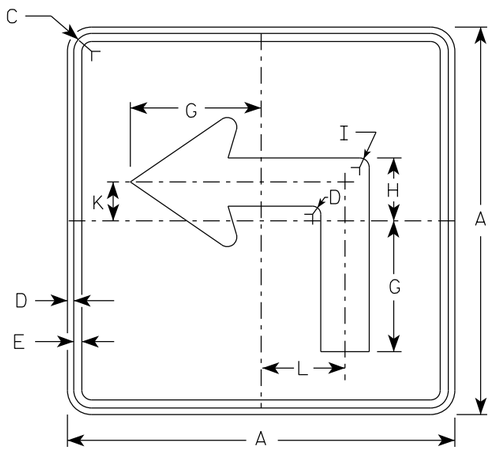
STANDARD SIGN
M4-20

WISCONSIN DEPT OF TRANSPORTATION

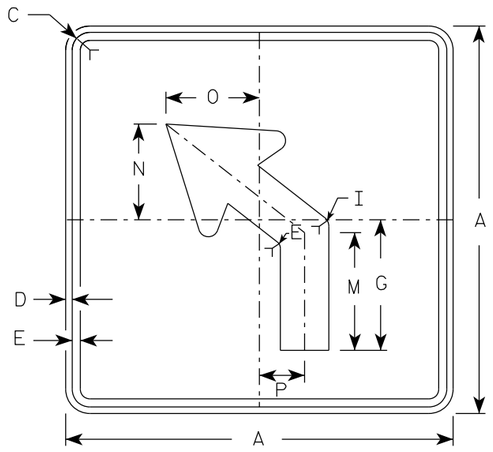
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/13/2023 PLATE NO. M4-20.6

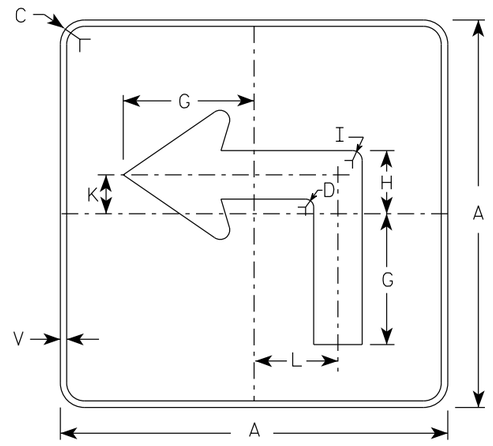
PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E



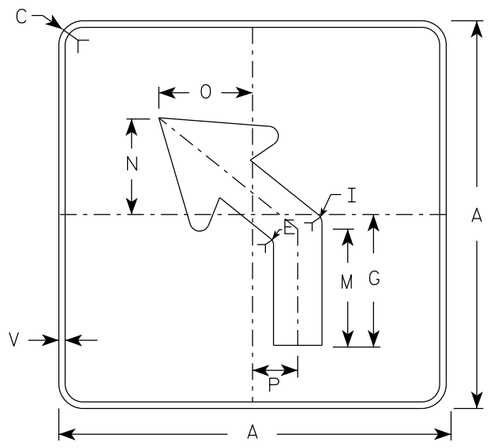
M5-1L
MM5-1L
MO5-1L
MP5-1L



M5-2L
MM5-2L
MO5-2L
MP5-2L



MB5-1L
MK5-1L
MN5-1L
MR5-1L

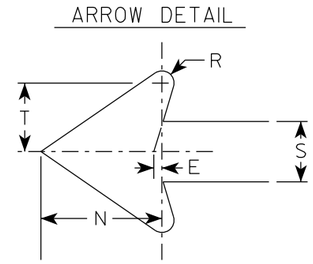


MB5-2L
MK5-2L
MN5-2L
MR5-2L

NOTES

1. Signs are Type II - Type H reflective except as shown
2. Color:
   Background - See note 4
   Message - See note 4
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. M5-1 and M5-2 Background - White
   Message - Black
   MB5-1 and MB5-2 Background - Blue
   Message - White
   MK5-1 and MK5-2 Background - Green
   Message - White
   MM5-1 and MM5-2 Background - White
   Message - Green
   MN5-1 and MN5-2 Background - Brown
   Message - White
   MO5-1 and MO5-2 Background - Orange - Type F Reflective
   Message - Black
   MP5-1 and MP5-2 Background - White
   Message - Blue
   MR5-1 and MR5-2 Background - Brown
   Message - Yellow
5. M5-1R same as M5-1L except arrow points right.
6. M5-2R same as M5-2L except arrow tilts right.

ARROW DETAIL



SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	21		1 1/2	3/8	3/8		7	3 3/8	5/8		2 1/8	4 1/2	6 3/8	5 1/4	5	2 1/2		1/2	2 5/8	3		1/2					3.06
2M	21		1 1/2	3/8	3/8		7	3 3/8	5/8		2 1/8	4 1/2	6 3/8	5 1/4	5	2 1/2		1/2	2 5/8	3		1/2					3.06
3	30		1 7/8	1/2	5/8		10 1/8	4 7/8	7/8		3	6 1/2	9 1/8	7 1/2	7 1/4	3 1/2		3/4	3 3/4	4 1/4		1/2					6.25
4	30		1 7/8	1/2	5/8		10 1/8	4 7/8	7/8		3	6 1/2	9 1/8	7 1/2	7 1/4	3 1/2		3/4	3 3/4	4 1/4		1/2					6.25
5	30		1 7/8	1/2	5/8		10 1/8	4 7/8	7/8		3	6 1/2	9 1/8	7 1/2	7 1/4	3 1/2		3/4	3 3/4	4 1/4		1/2					6.25

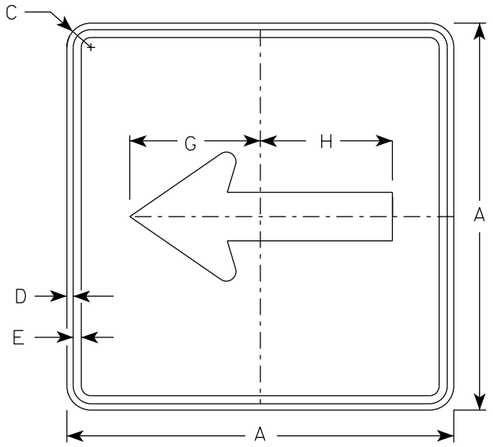
STANDARD SIGN
M5-1 & M5-2

WISCONSIN DEPT OF TRANSPORTATION

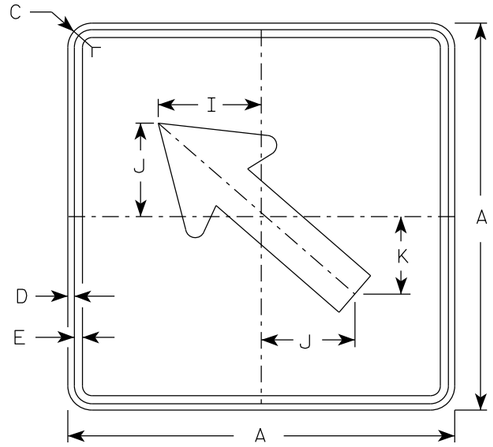
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/13/2023 PLATE NO. M5-1.15

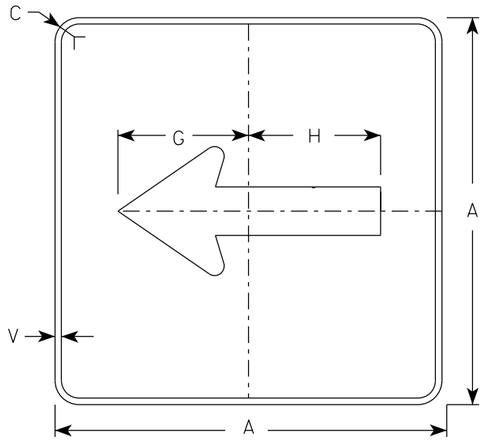
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 429 | E



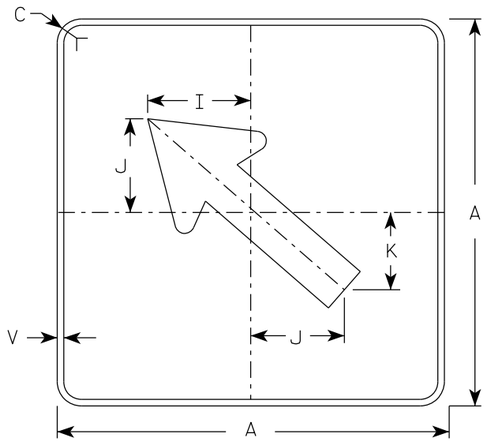
M6-1
MM6-1
MO6-1
MP6-1



M6-2
MM6-2
MO6-2
MP6-2



MB6-1
MK6-1
MN6-1
MR6-1

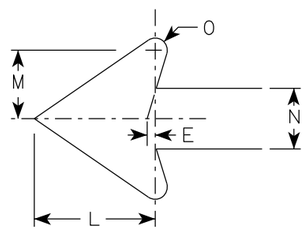


MB6-2
MK6-2
MN6-2
MR6-2

NOTES

1. Signs are Type II - Type H Reflective except as Shown
2. Color:
   Background - See note 4
   Message - See note 4
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. M6-1 and M6-2 Background - White
   Message - Black
   MB6-1 and MB6-2 Background - Blue
   Message - White
   MK6-1 and MK6-2 Background - Green
   Message - White
   MM6-1 and MM6-2 Background - White
   Message - Green
   MN6-1 and MN6-2 Background - Brown
   Message - White
   MO6-1 and MO6-2 Background - Orange - Type F Reflective
   Message - Black
   MP6-1 and MP6-2 Background - White
   Message - Blue
   MR6-1 and MR6-2 Background - Brown
   Message - Yellow

ARROW DETAIL



SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	21		1 1/2	3/8	3/8		7 1/2	7 1/8	5 5/8	5	4 1/4	5 1/4	3	2 5/8	1/2							1/2					3.06
2M	21		1 1/2	3/8	3/8		7 1/2	7 1/8	5 5/8	5	4 1/4	5 1/4	3	2 5/8	1/2							1/2					3.06
3	30		1 7/8	1/2	5/8		10 3/4	10 1/4	8	7 1/4	6	7 1/2	4 1/4	3 3/4	3/4							1/2					6.25
4	30		1 7/8	1/2	5/8		10 3/4	10 1/4	8	7 1/4	6	7 1/2	4 1/4	3 3/4	3/4							1/2					6.25
5	30		1 7/8	1/2	5/8		10 3/4	10 1/4	8	7 1/4	6	7 1/2	4 1/4	3 3/4	3/4							1/2					6.25

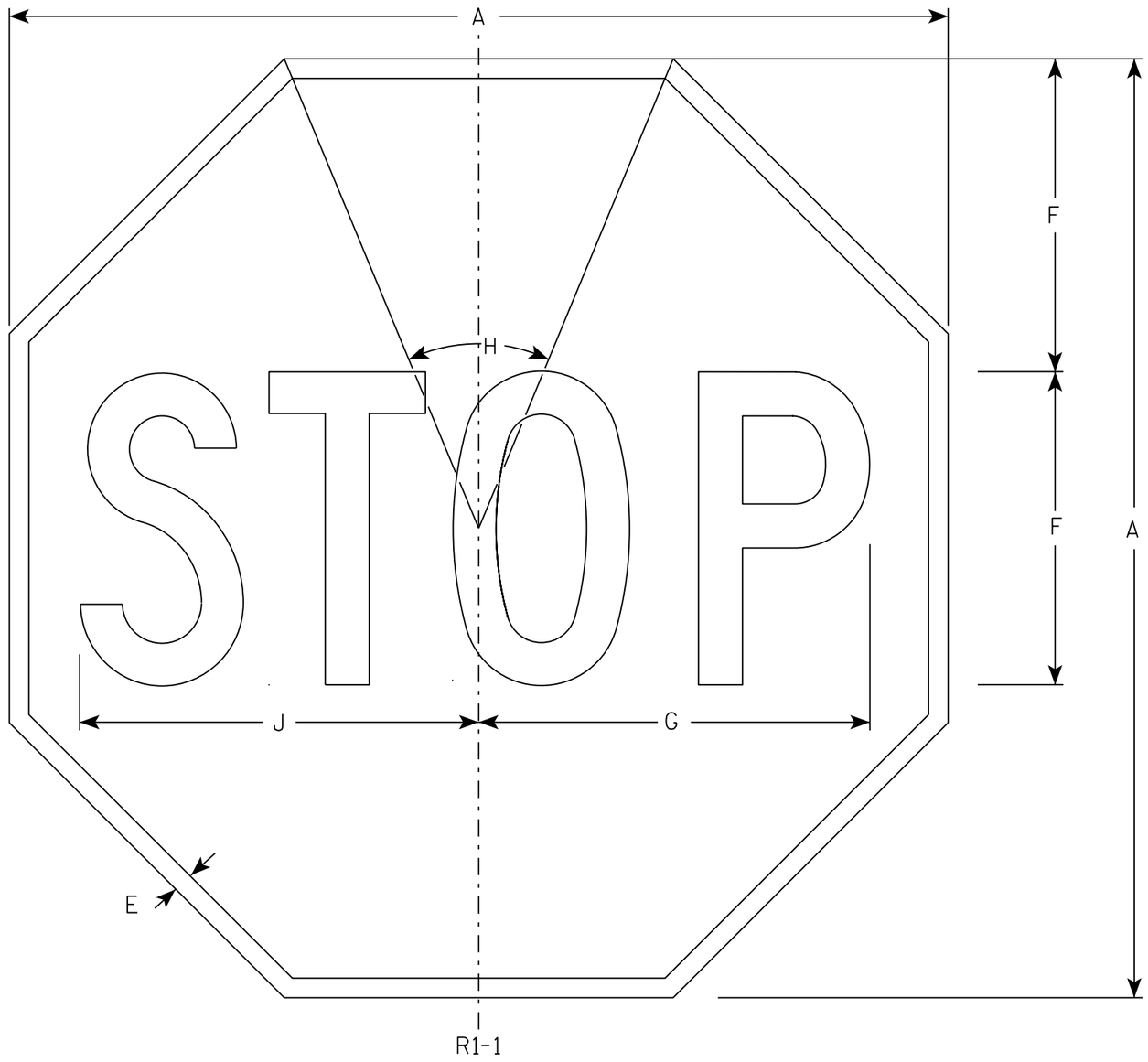
STANDARD SIGN
M6-1 & M6-2
SERIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
For State Traffic Engineer

DATE 2/13/2023 PLATE NO. M6-1.16

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 430 | E



NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Red
   Message - White
3. Message Series - C

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30				5/8	10	12 1/2	45°		12 3/4																	5.18
2S	30				5/8	10	12 1/2	45°		12 3/4																	5.18
2M	36				3/4	12	15	45°		15 3/8																	7.46
3	36				3/4	12	15	45°		15 3/8																	7.46
4	48				1	16	20	45°		20 1/2																	13.25
5	48				1	16	20	45°		20 1/2																	13.25
6	18				3/8	6	7 3/4	45°		7 3/4																	1.86
7	12				1/4	4	5	45°		5 1/8																	0.78

STANDARD SIGN

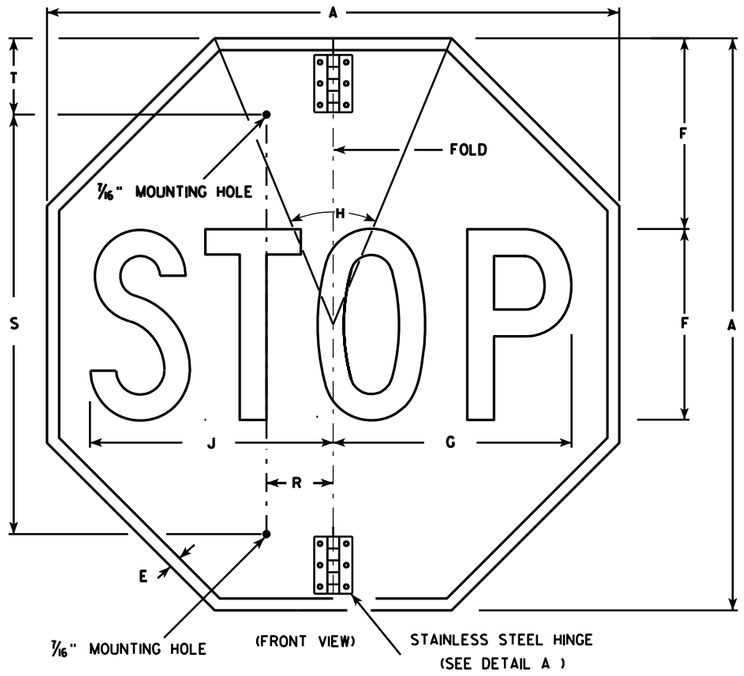
R1-1

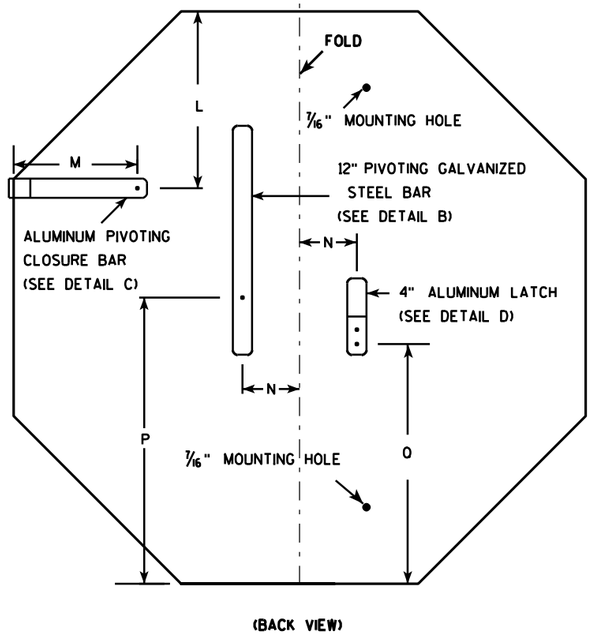
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/12/15 PLATE NO. R1-1.13

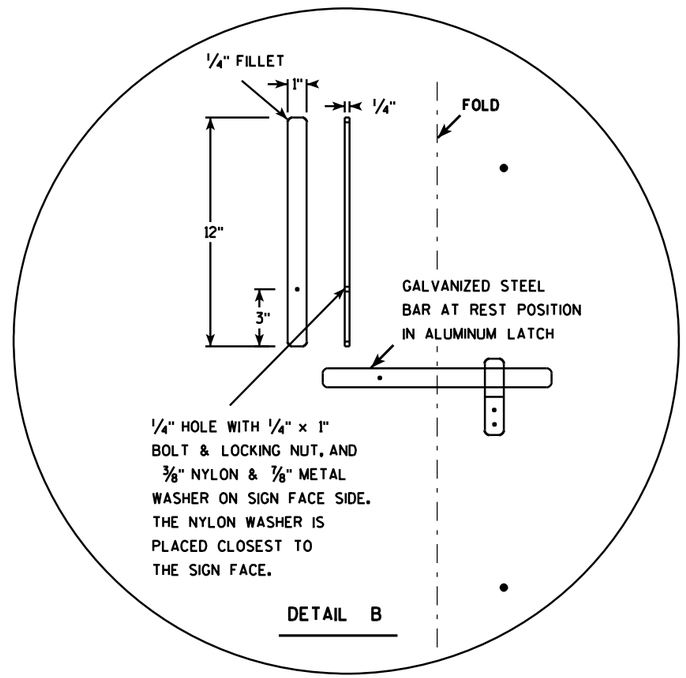
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 431	E

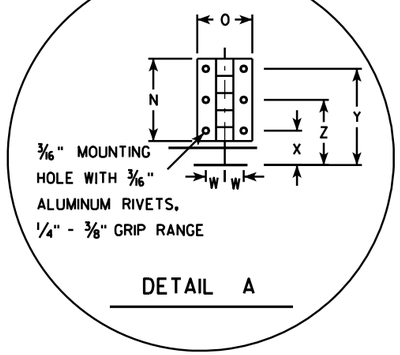


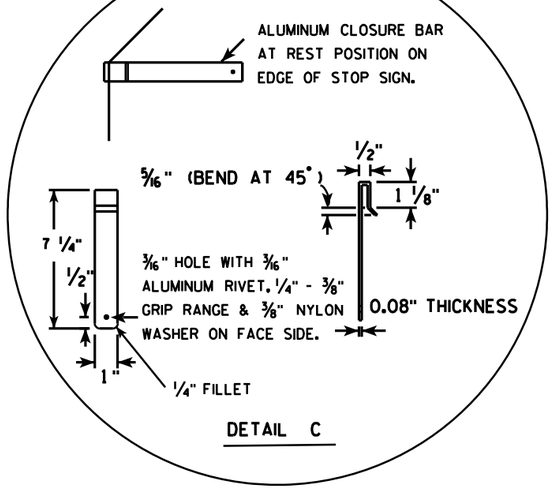


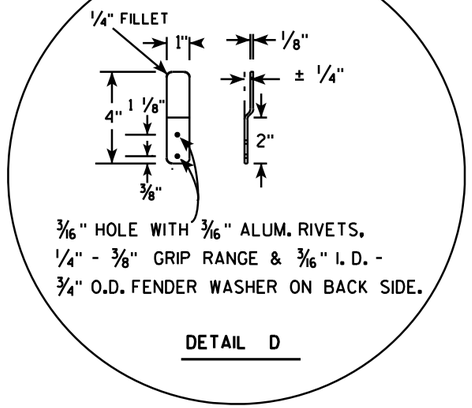
NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Red
   Message - White
3. Message Series - C
4. All hardware used on the folding STOP sign installation shall conform to 637.2.4 of the WIS DOT Standard Specification.









SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	O	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	30				5/8	10	12 1/2	45		12 3/4		9 1/4	6 1/2	3	2	15	12 3/8	2 1/2	22	5			11/16	1 1/4	3 1/2	2 3/8	5.18
2M	36				3/4	12	15	45		15 3/8		11	6 1/2	3	2	18	15 3/8	2 1/2	26	5			11/16	1 1/4	3 1/2	2 3/8	7.46
3	36				3/4	12	15	45		15 3/8		11	6 1/2	3	2	18	15 3/8	2 1/2	26	5			11/16	1 1/4	3 1/2	2 3/8	7.46
4																											
5																											

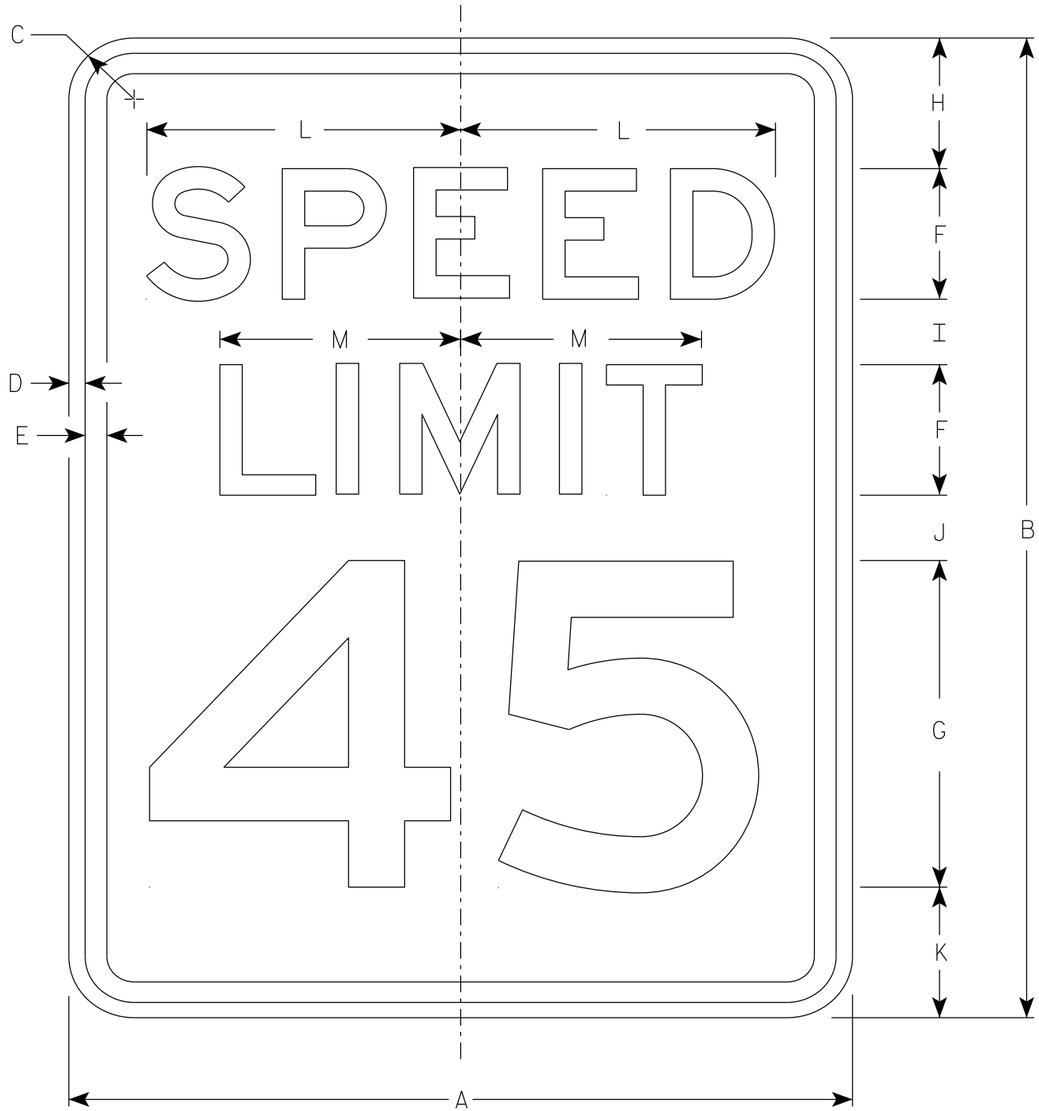
STANDARD SIGN
R1-1F

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/03/10 PLATE NO. R1-1F.3

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 432	E



R2-1

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - E
4. Substitute appropriate numerals and optically adjust spacing to achieve proper balance.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	18	24	1 1/2	3/8	1/2	3	8	3	2	2	3	7 1/4	5 1/2														3.0
2S	24	30	1 1/2	3/8	1/2	4	10	3	2 1/4	3 3/8	3 3/8	9 5/8	7 3/8														5.0
2M	30	36	1 7/8	1/2	5/8	5	12	5	2 1/2	2 1/2	4	12	9 1/4														7.5
3	36	48	1 7/8	1/2	5/8	6	14	6	5	5	6	14 3/8	11														12.0
4	36	48	1 7/8	1/2	5/8	6	14	6	5	5	6	14 3/8	11														12.0
5	48	60	3	3/4	1	8	20	6	4 1/2	6 3/4	6 3/4	19 1/4	14 5/8														20.0

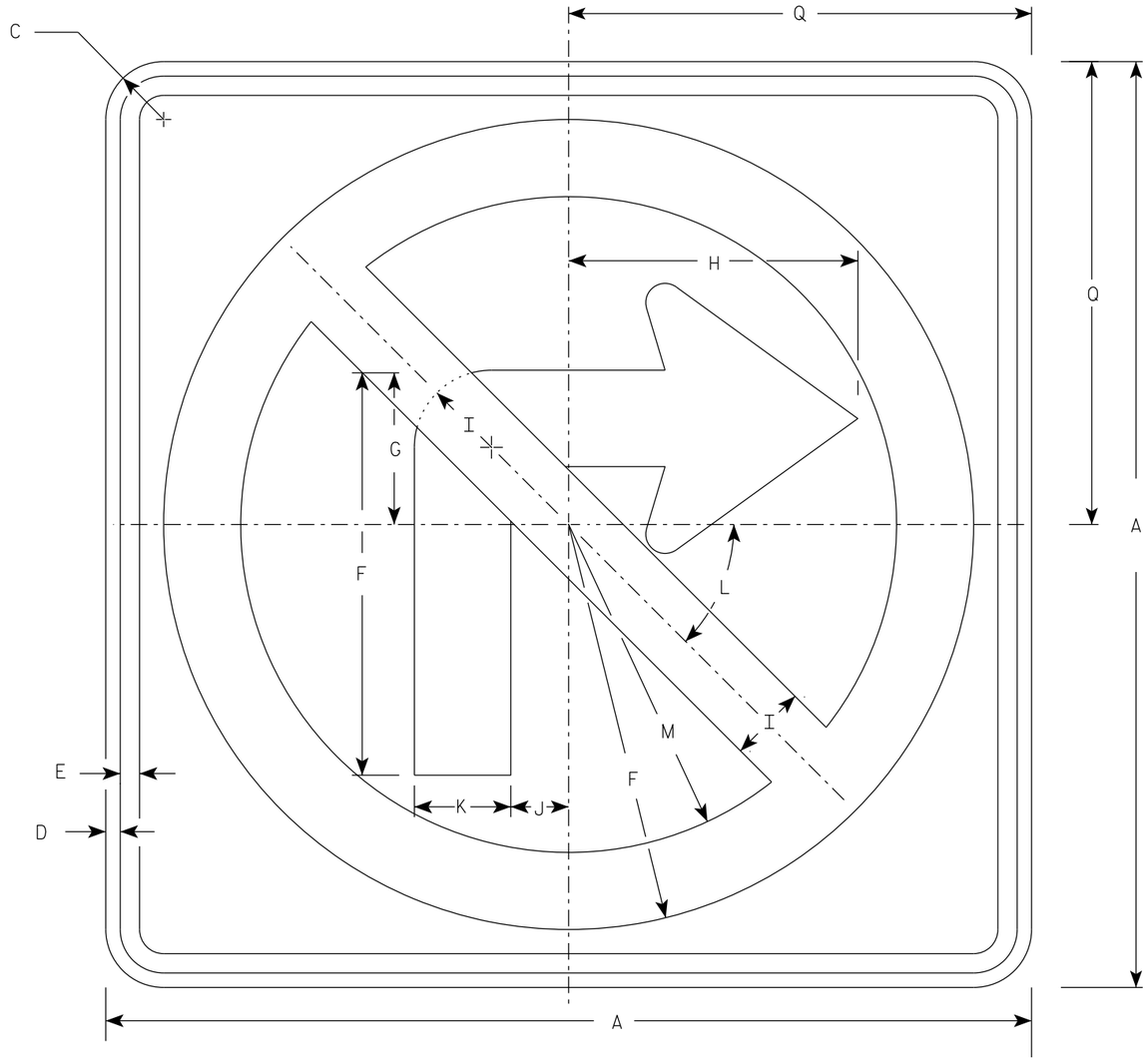
STANDARD SIGN
R2-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/1/23 PLATE NO. R2-1.14

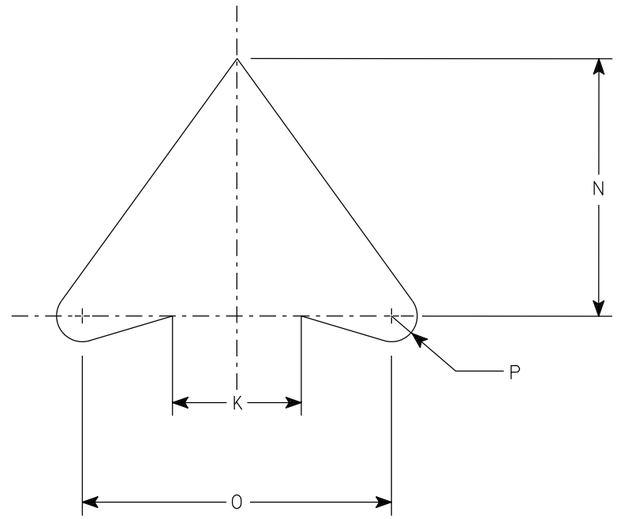
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 433 | E



R3-1

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - See note 3
3. Border & Arrow are non reflective black, the circle with diagonal bar is reflective red.



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	24		1 1/2	3/8	1/2	10 1/2	4	7 1/2	2	1 1/2	2 1/2	45	8 1/2	5	6	1/2	12										4.0
2S	24		1 1/2	3/8	1/2	10 1/2	4	7 1/2	2	1 1/2	2 1/2	45°	8 1/2	5	6	1/2	12										4.0
2M	36		2 1/4	5/8	3/4	15 3/4	6	11 1/4	3	2 1/4	3 3/4	45	12 3/4	7 1/2	9	3/4	18										9.0
3	36		2 1/4	5/8	3/4	15 3/4	6	11 1/4	3	2 1/4	3 3/4	45	12 3/4	7 1/2	9	3/4	18										9.0
4	36		2 1/4	5/8	3/4	15 3/4	6	11 1/4	3	2 1/4	3 3/4	45°	12 3/4	7 1/2	9	3/4	18										9.0
5	48		2 1/4	3/4	1	21	8	15	4	3	5	45°	17	10	12	1	24										16.0

STANDARD SIGN
R3-1

WISCONSIN DEPT OF TRANSPORTATION

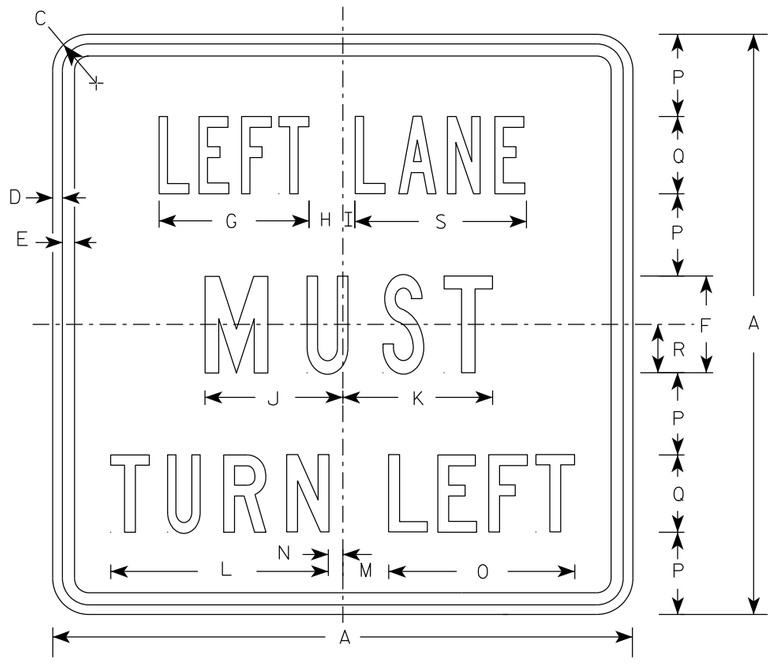
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/2/23 PLATE NO. R3-1.6

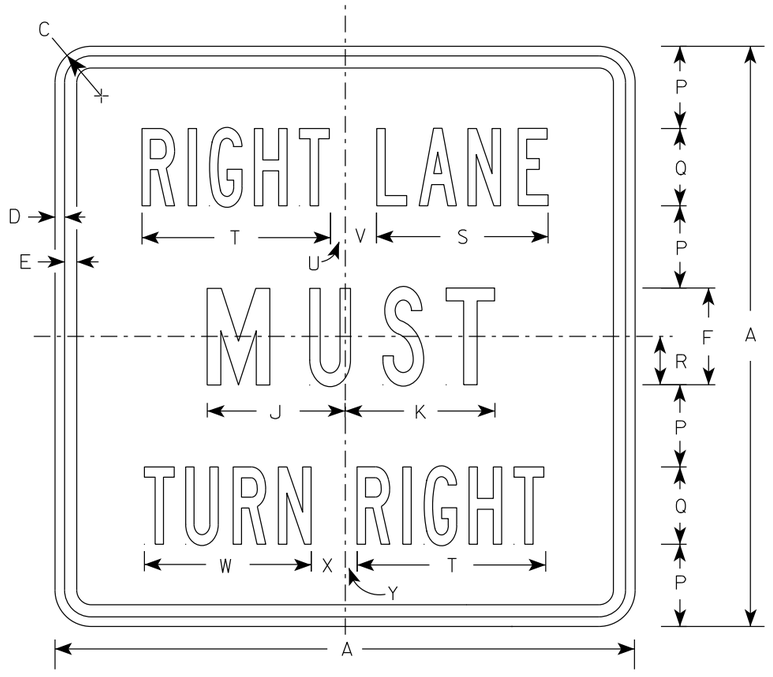
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 434 | E

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - Line 1 is Series B.
   Line 2 is Series C.
   Line 3 on plate R3-7R is Series B and Series C on plate R3-7L.



R3-7L



R3-7R

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30		1 7/8	1/2	5/8	5	7 3/4	1 3/4	5/8	7 1/8	7 3/4	11 1/4	2 3/8	3/4	9 5/8	4 1/4	4	2 1/2	8 7/8	9 3/4	3/4	1 5/8	8 5/8	1 5/8	5/8		6.25
2S	30		1 7/8	1/2	5/8	5	7 3/4	1 3/4	5/8	7 1/8	7 3/4	11 1/4	2 3/8	3/4	9 5/8	4 1/4	4	2 1/2	8 7/8	9 3/4	3/4	1 5/8	8 5/8	1 5/8	5/8		6.25
2M	30		1 7/8	1/2	5/8	5	7 3/4	1 3/4	5/8	7 1/8	7 3/4	11 1/4	2 3/8	3/4	9 5/8	4 1/4	4	2 1/2	8 7/8	9 3/4	3/4	1 5/8	8 5/8	1 5/8	5/8		6.25
3	36		2 1/4	5/8	3/4	6	9 5/8	2	1 1/8	8 3/4	9	13 1/2	3 7/8	1 1/2	12 1/2	5	5	3	10 5/8	12	7/8	2 1/4	10 5/8	2 1/8	1		9.00
4	48		2 1/4	3/4	1	8	13 1/2	2 3/8	1 1/2	11 1/2	11 7/8	17 3/4	3 5/8	2 1/2	16 3/8	6 1/2	7	4	14 3/8	16 7/8	5/8	3 1/4	15 1/8	2 3/4	1 1/8		16.00
5																											

STANDARD SIGN
R3-7L & R3-7R

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

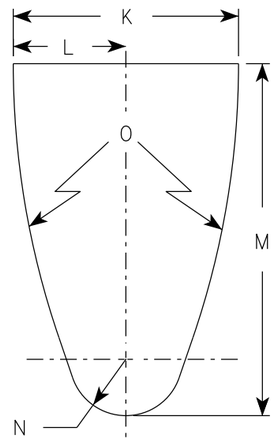
DATE 2/13/23 PLATE NO. R3-7.4

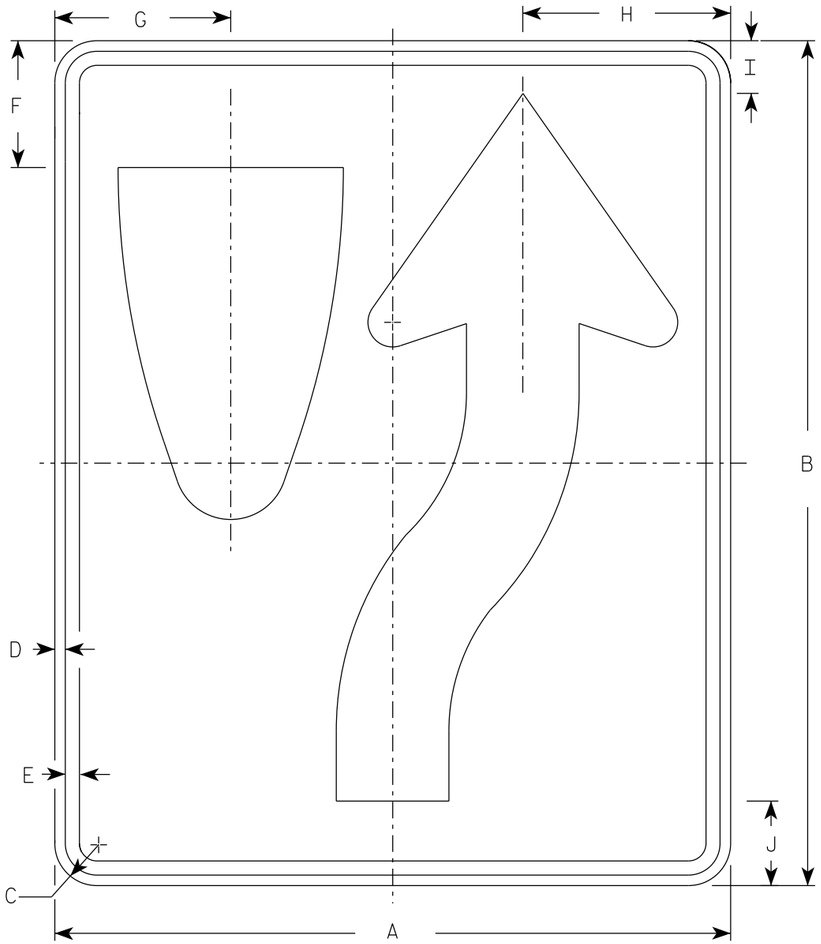
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 435 | E

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. R4-8 is the same as R4-7 except Legend is reversed.

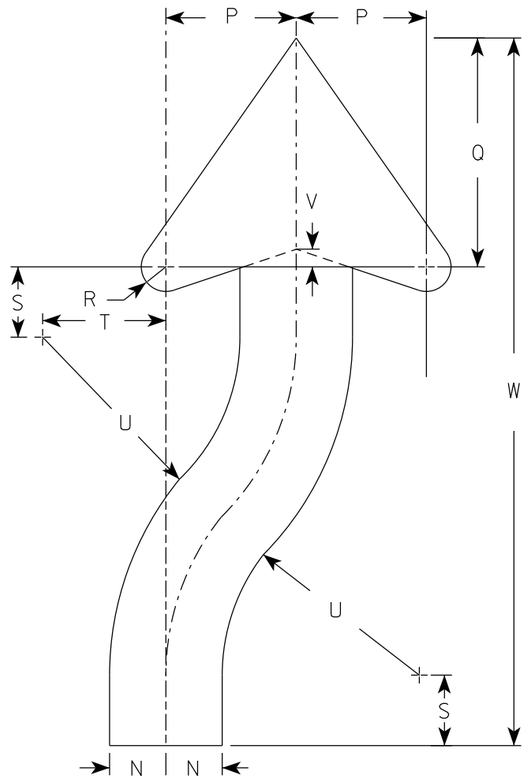
DIVIDER DETAIL





R4-7

ARROW DETAIL



SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	18	24	1 1/2	3/8	1/2	3 3/8	4 3/4	5 1/2	1 3/8	2 1/4	6	3	9 3/8	1 1/2	22 1/2	3 1/2	6 1/8	5/8	1 7/8	3 1/4	6 3/4	1/2	20 3/8				3.0
2S	24	30	1 1/2	3/8	1/2	4 1/2	6 1/4	7 3/8	1 7/8	3	8	4	12 1/2	2	30	4 5/8	8 1/8	7/8	2 1/2	4 3/8	9	5/8	25 1/8				5.0
2M	24	30	1 1/2	3/8	1/2	4 1/2	6 1/4	7 3/8	1 7/8	3	8	4	12 1/2	2	30	4 5/8	8 1/8	7/8	2 1/2	4 3/8	9	5/8	25 1/8				5.0
3	36	48	1 7/8	1/2	5/8	6 3/4	9 3/8	11 1/8	2 7/8	4 1/2	12	6	18 3/4	3	45	6 7/8	12 1/4	1 1/4	3 3/4	6 5/8	13 1/2	1	40 3/4				12.0
4	36	48	1 7/8	1/2	5/8	6 3/4	9 3/8	11 1/8	2 7/8	4 1/2	12	6	18 3/4	3	45	6 7/8	12 1/4	1 1/4	3 3/4	6 5/8	13 1/2	1	40 3/4				12.0
5	48	60	3	3/4	1	9	12 1/2	14 3/4	3 3/4	6	16	8	25	4	60	9 1/4	16 1/4	1 5/8	5	8 3/4	18	1 1/4	50 1/4				20.0

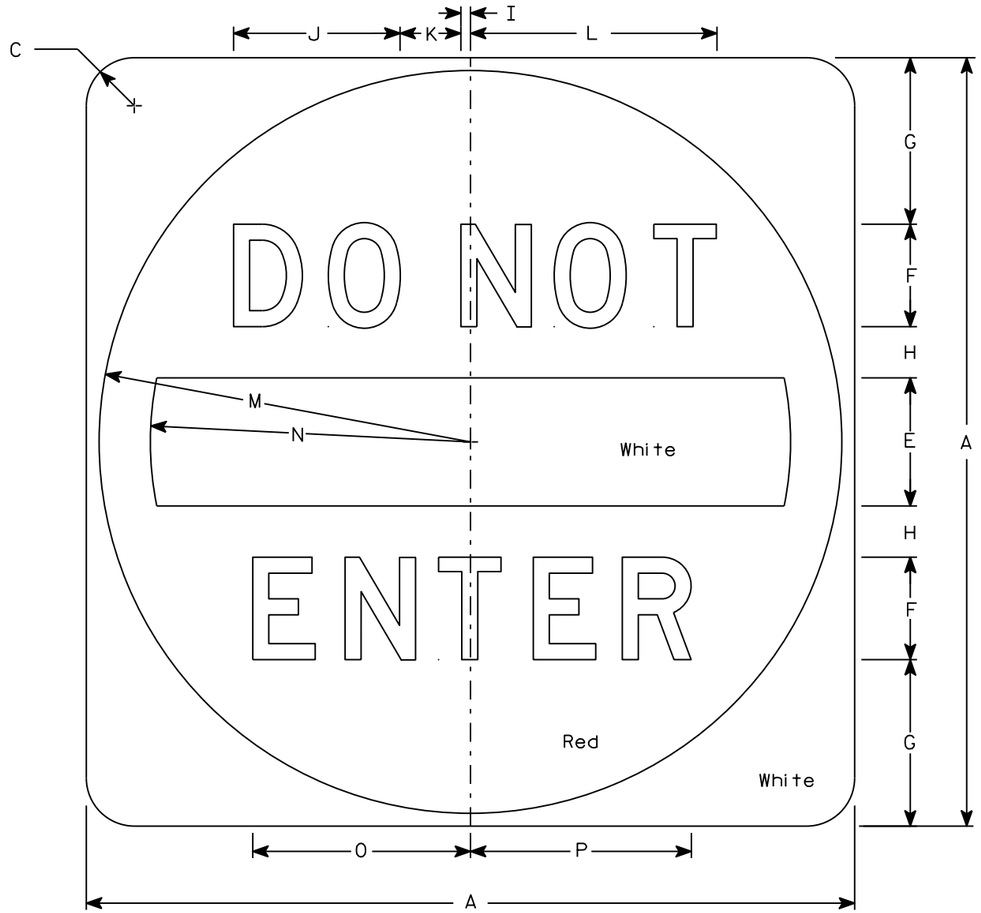
STANDARD SIGN
R4-7 & R4-8

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch for State Traffic Engineer

DATE 8/17/23 PLATE NO. R4-7.9

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 436	E



R5-1

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - See detail
   Message - White
3. Message Series - D

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	30		1 7/8		5	4	6 1/2	2	3/8	6 1/2	2 3/8	9 5/8	14 1/2	12 1/2	8 1/2	8 5/8											6.25
2M	36		2 1/4		6	5	7 1/2	2 1/2	1/2	8 1/8	3	12 1/8	17 1/2	15	10 5/8	10 3/4											9.0
3	36		2 1/4		6	5	7 1/2	2 1/2	1/2	8 1/8	3	12 1/8	17 1/2	15	10 5/8	10 3/4											9.0
4	36		2 1/4		6	5	7 1/2	2 1/2	1/2	8 1/8	3	12 1/8	17 1/2	15	10 5/8	10 3/4											9.0
5	48		3		8	6	11	3	5/8	9 3/4	3 5/8	14 1/2	23 1/2	20	12 3/4	12 7/8											16.0

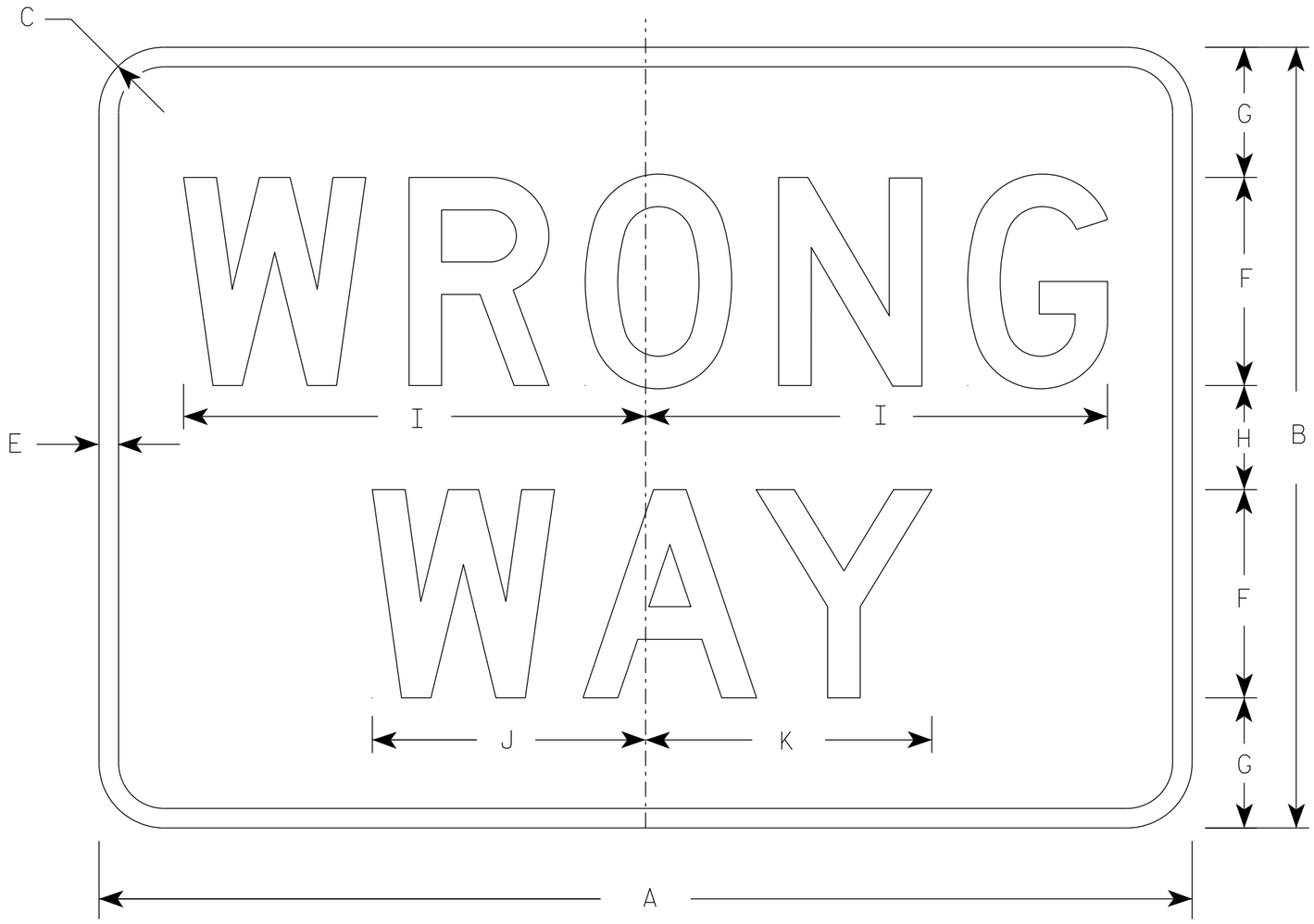
STANDARD SIGN
R5-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/15/18 PLATE NO. R5-1.16

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 437 | E



R5-1A

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - Red
   Message - White
3. Message Series - D

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30	18	1 1/2		1/2	5	3	2	11	6 1/2	6 7/8																3.75
2S	36	24	1 1/2		5/8	6	4 1/2	3	13 1/4	7 7/8	8 1/4																6.00
2M	42	30	1 7/8		3/4	8	5	4	17 3/4	10 1/2	11																8.75
3	42	30	1 7/8		3/4	8	5	4	17 3/4	10 1/2	11																8.75
4	42	30	1 7/8		3/4	8	5	4	17 3/4	10 1/2	11																8.75
5	42	30	1 7/8		3/4	8	5	4	17 3/4	10 1/2	11																8.75

STANDARD SIGN
R5-1A

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 8/17/23 PLATE NO. R5-1A.3

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 438 | E



R5-57

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - Lines 1, 2, and 5 are Series C.
   Lines 3 and 4 are Series B.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S																											
2M																											
3																											
4	36		2 1/4	5/8	3/4	4	3	2	3 1/2	14 1/4	14 7/8	11	11 1/2	4 3/4	1 3/4	9		1 3/8	10	11	2 1/2	1 3/4	15 1/2	13	13 5/8		9.0
5	36		2 1/4	5/8	3/4	4	3	2	3 1/2	14 1/4	14 7/8	11	11 1/2	4 3/4	1 3/4	9		1 3/8	10	11	2 1/2	1 3/4	15 1/2	13	13 5/8		9.0

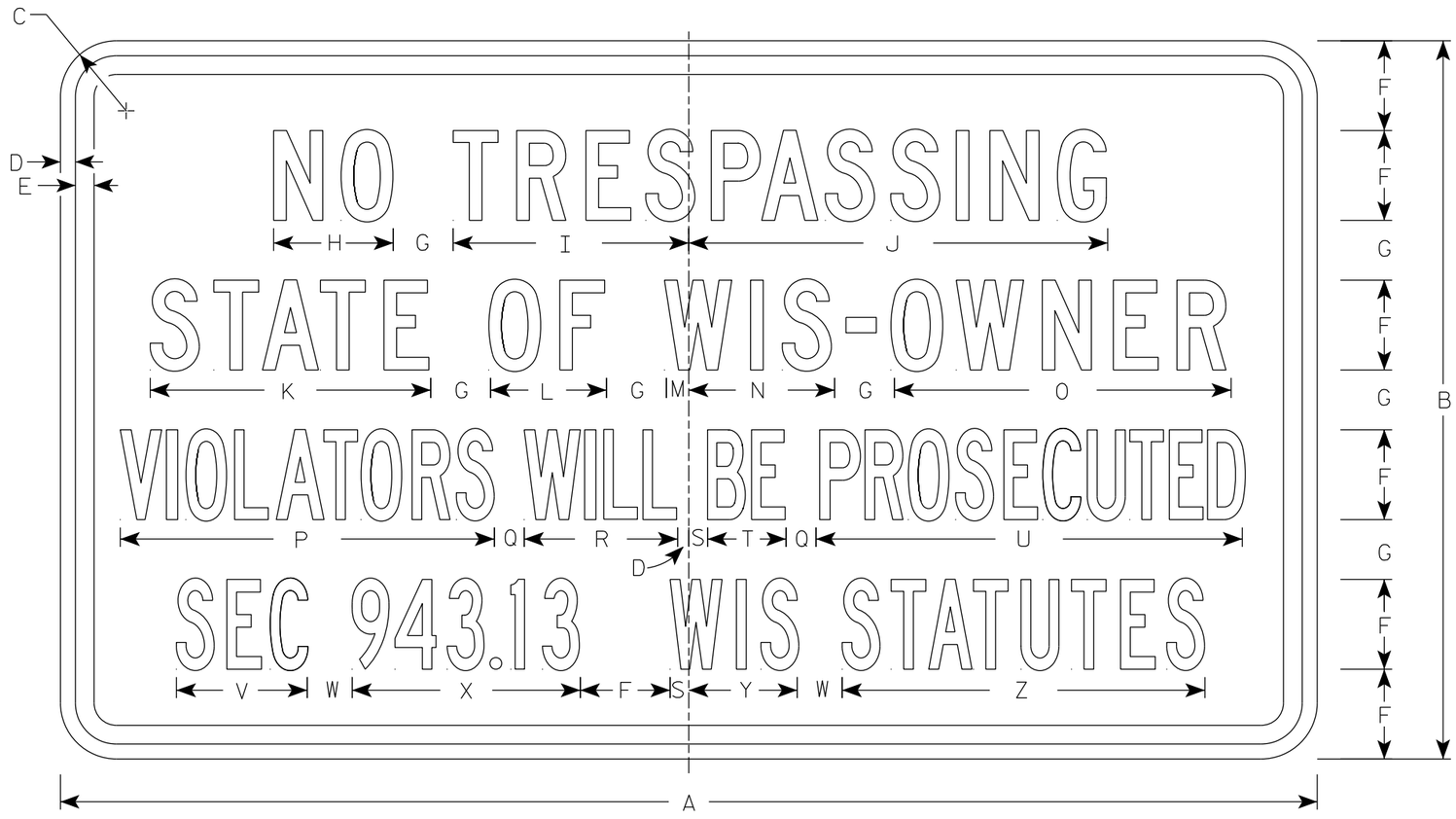
STANDARD SIGN
R5-57

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 8/30/23 PLATE NO. R5-57.11

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 439 | E



R5-98

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - See note 4
4. Lines 1 and 2 are Series C
   Lines 3 and 4 are Series B

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	42	24	1 7/8	1/2	5/8	3	2	4	7 7/8	14	9 3/8	3 7/8	3/4	4 7/8	11 1/4	12 1/2	1	5 1/8	5/8	2 5/8	14 1/4	4 3/8	1 1/2	7 5/8	3 5/8	12 1/8	7.00
2M	42	24	1 7/8	1/2	5/8	3	2	4	7 7/8	14	9 3/8	3 7/8	3/4	4 7/8	11 1/4	12 1/2	1	5 1/8	5/8	2 5/8	14 1/4	4 3/8	1 1/2	7 5/8	3 5/8	12 1/8	7.00
3																											
4																											
5																											

STANDARD SIGN
R5-98

WISCONSIN DEPT OF TRANSPORTATION

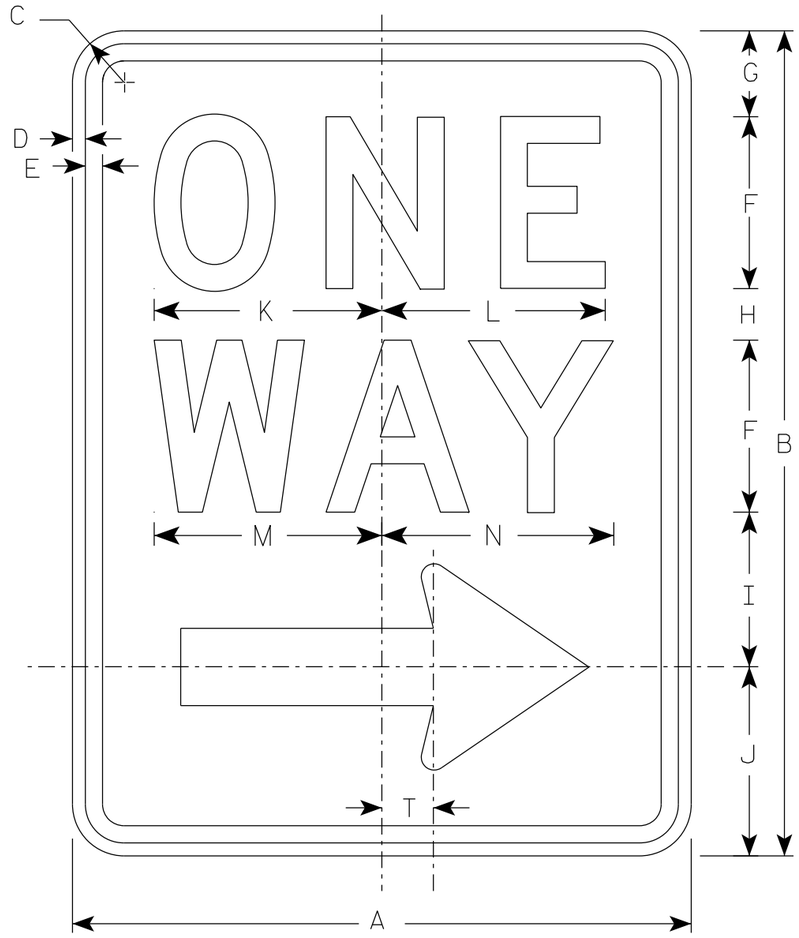
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 8/30/23 PLATE NO. R5-98.7

PROJECT NO: | HWY: | COUNTY: | SHEET NO: E

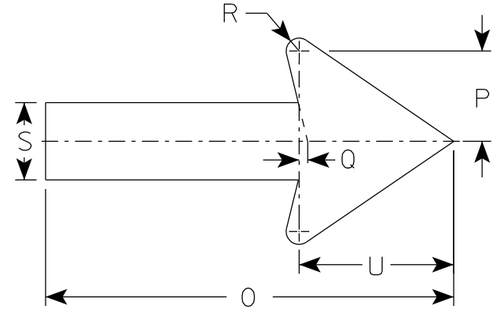
NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - D
4. R6-2L same as R6-2R except arrow points to the left.



R6-2R

Arrow Detail



SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z
1	18	24	1 1/2	3/8	1/2	5	2 1/2	1 1/2	4 1/2	5 1/2	6 5/8	6 1/2	6 5/8	6 3/4	11 7/8	2 5/8	1/4	3/8	2 1/4	1 1/2	4 1/2					
2S	24	1 1/2	1 1/2	3/8	1/2	6	3	2 1/2	5 1/2	7	8 1/8	8 1/8	8 1/2	8 5/8	16	3 1/2	3/8	1/2	3	2	6					
2M	30	36	1 7/8	1/2	5/8	8	2 1/2	2 5/8	6 7/8	8	10 1/2	10 1/2	11 1/4	11 1/4	20	4 3/8	1/2	5/8	3 3/4	2 1/2	7 1/2					
3	36	48	1 7/8	1/2	5/8	10	5 1/4	3 1/4	9	10 1/2	12 3/4	12 3/4	13 1/4	13 1/2	24	5 5/8	1/2	3/4	4 3/4	3	9					
4	36	48	1 7/8	1/2	5/8	10	5 1/4	3 1/4	9	10 1/2	12 3/4	12 3/4	13 1/4	13 1/2	24	5 5/8	1/2	3/4	4 3/4	3	9					
5																										

STANDARD SIGN
R6-2 R&L

WISCONSIN DEPT OF TRANSPORTATION

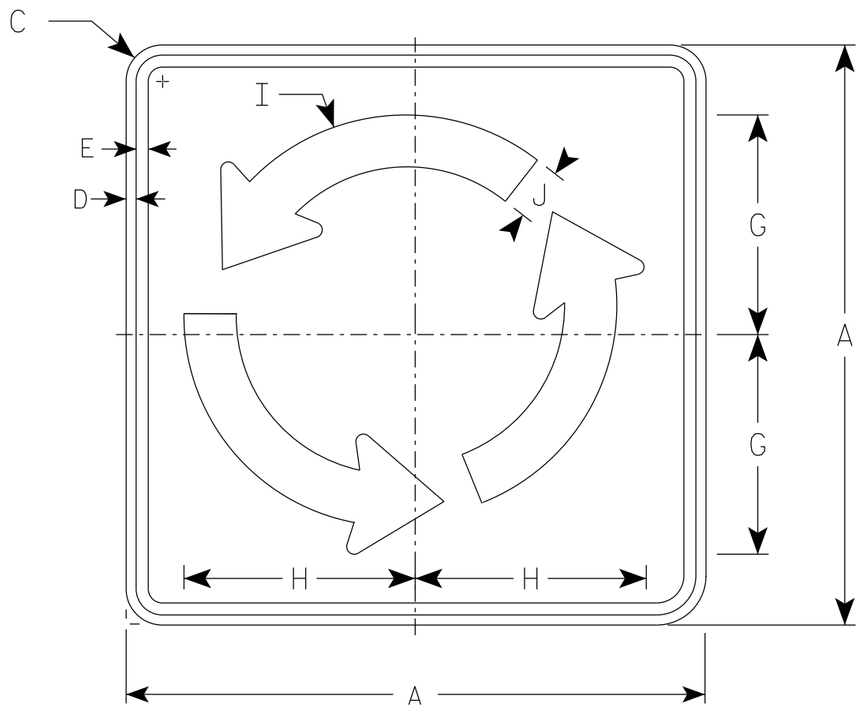
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/2/10 PLATE NO. R6-2.8

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 441 | E

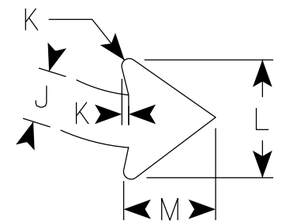
NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black



R6-5P

Arrow Detail



SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Area sq. ft.
1																									
2S	30		1 7/8	1/2	5/8		11 3/8	12	11 1/8	2 3/4	3/8	6	4 3/4												6.25
2M	30		1 7/8	1/2	5/8		11 3/8	12	11 1/8	2 3/4	3/8	6	4 3/4												6.25
3																									
4																									
5																									

STANDARD SIGN
R6-5P

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 10/26/23 PLATE NO. R6-5P.2

PROJECT NO:

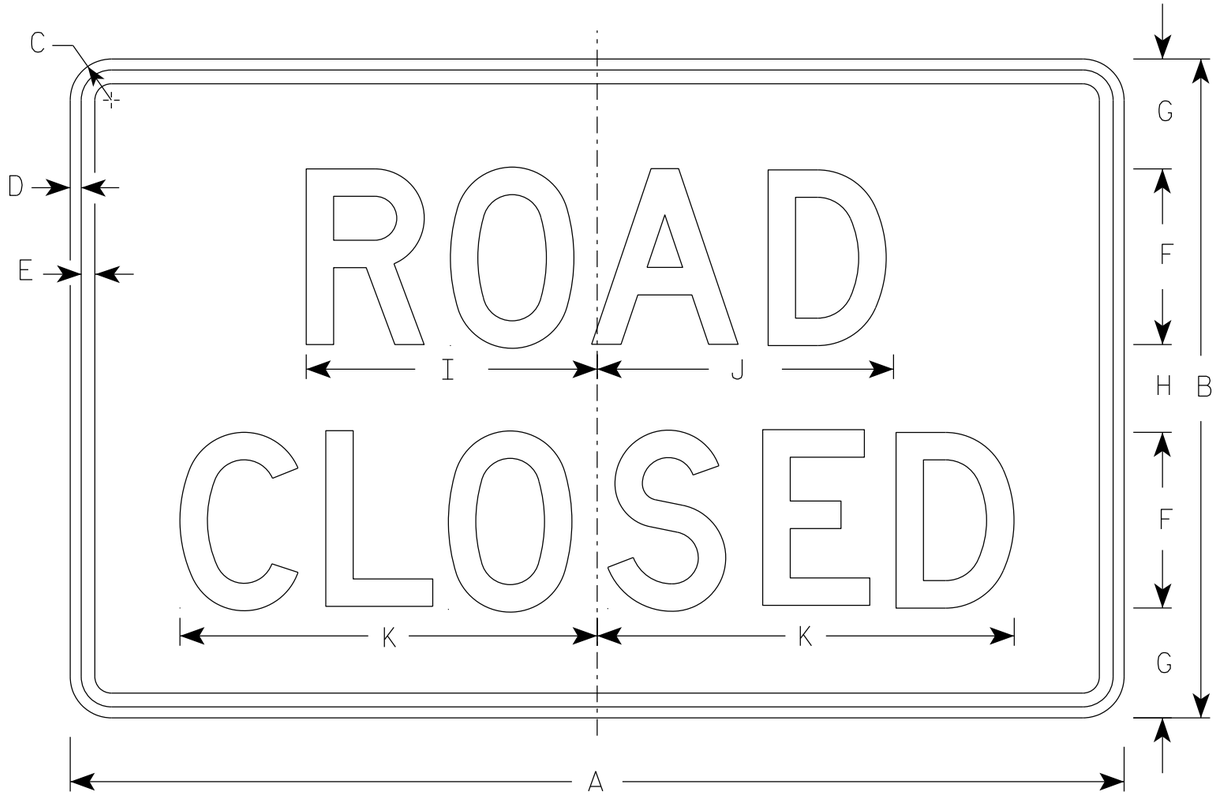
SHEET NO: 442 E

FILE NAME : C::CAEfiles\Project\tr_stdplate\R65P.dgn PLOT DATE : 26-OCT 2023 1:46 PLOT BY : mscj9h

WISDOT/CADDS SHEET 42

7

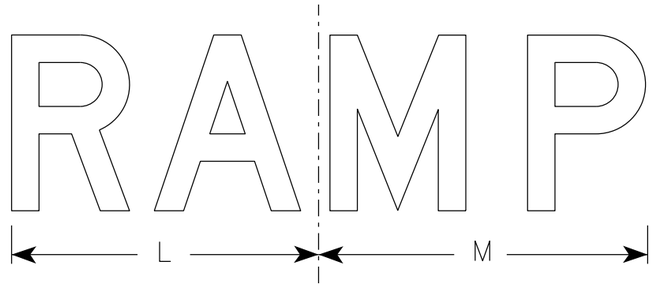
7



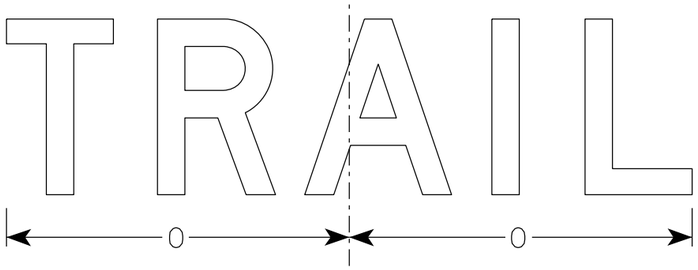
R11-2

NOTES

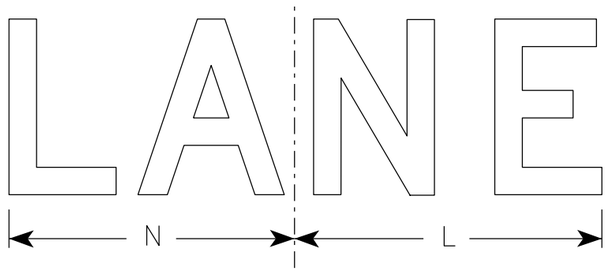
1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Modify the message as required.



R11-2R



R11-2T



R11-2L

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	48	30	1 7/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13	15 5/8												10.0
2M	48	30	1 7/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13	15 5/8												10.0
3	48	30	1 7/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13	15 5/8												10.0
4	48	30	1 7/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13	15 5/8												10.0
5	48	30	1 7/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13	15 5/8												10.0

STANDARD SIGN
R11-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

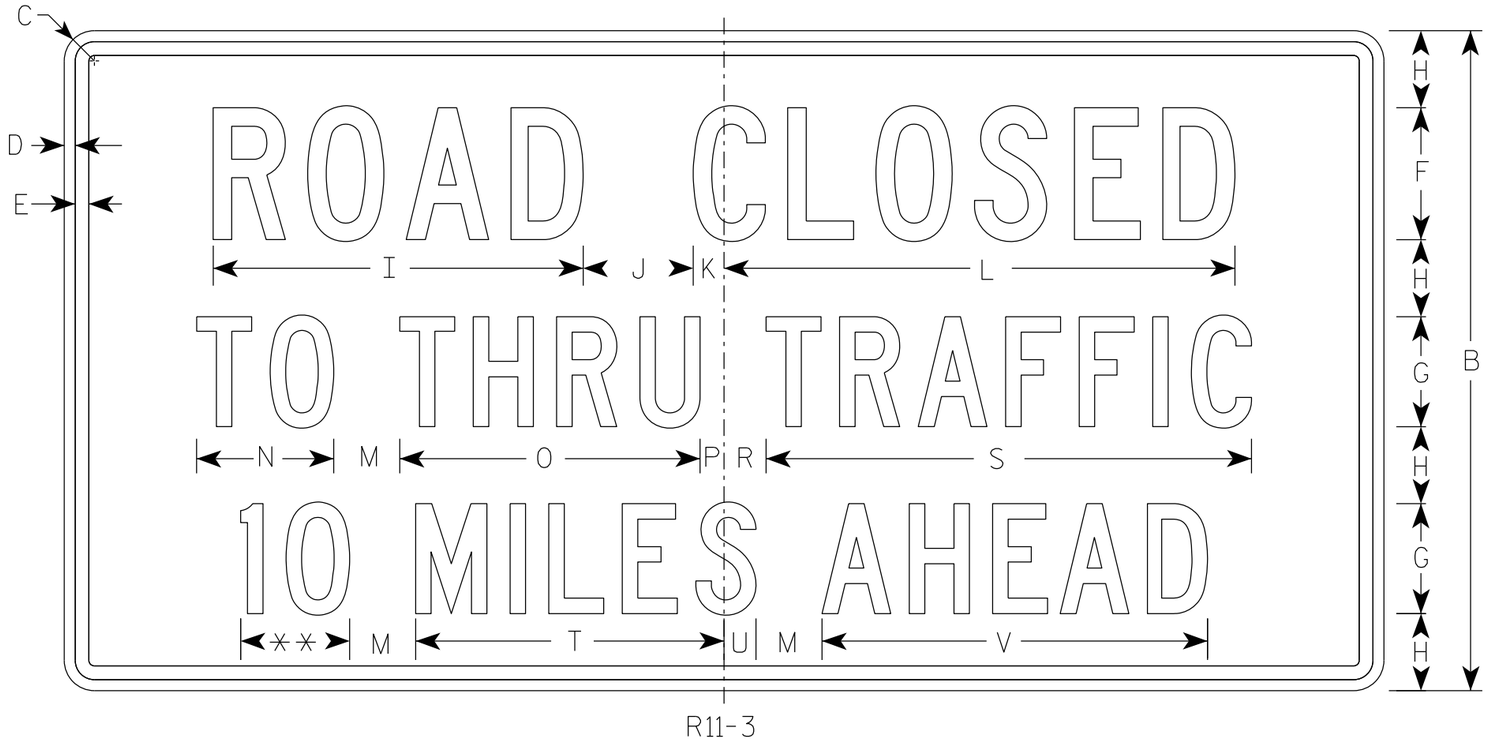
DATE 2/5/24 PLATE NO. R11-2.12

PROJECT NO: | HWY: | COUNTY: | SHEET NO: E

FILE NAME : C:\Users\PROJECTS\tr_stdplate\R112.dgn PLOT DATE : 5-FEB 2024 2:10 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

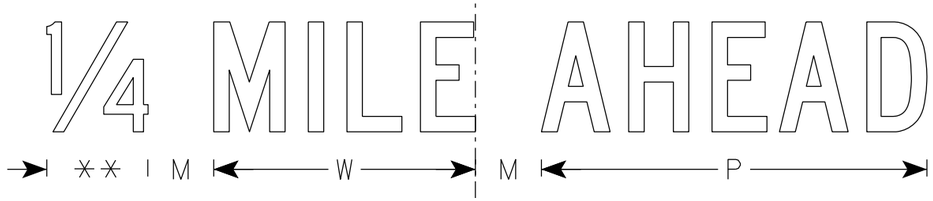
NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Substitute appropriate numerals to nearest quarter mile and optically adjust spacing to achieve proper balance.



R11-3

** See Note 5



SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36	18	1 1/2	3/8	3/8	4	3	2	11 1/4	3	1 1/8	15 3/8	2	3 3/4	8 1/4	5/8		1 3/8	13 1/4	8 3/8	7/8	10 1/2	7 1/8				4.5
2S	60	30	1 7/8	1/2	5/8	6	5	3 1/2	16 7/8	5	1 3/8	23 1/4	3	6 1/4	13 5/8	1 1/8		1 7/8	22 1/8	14	1 1/2	17 1/2	11 7/8				12.5
2M	60	30	1 7/8	1/2	5/8	6	5	3 1/2	16 7/8	5	1 3/8	23 1/4	3	6 1/4	13 5/8	1 1/8		1 7/8	22 1/8	14	1 1/2	17 1/2	11 7/8				12.5
3																											
4																											
5																											

STANDARD SIGN
R11-3

WISCONSIN DEPT OF TRANSPORTATION

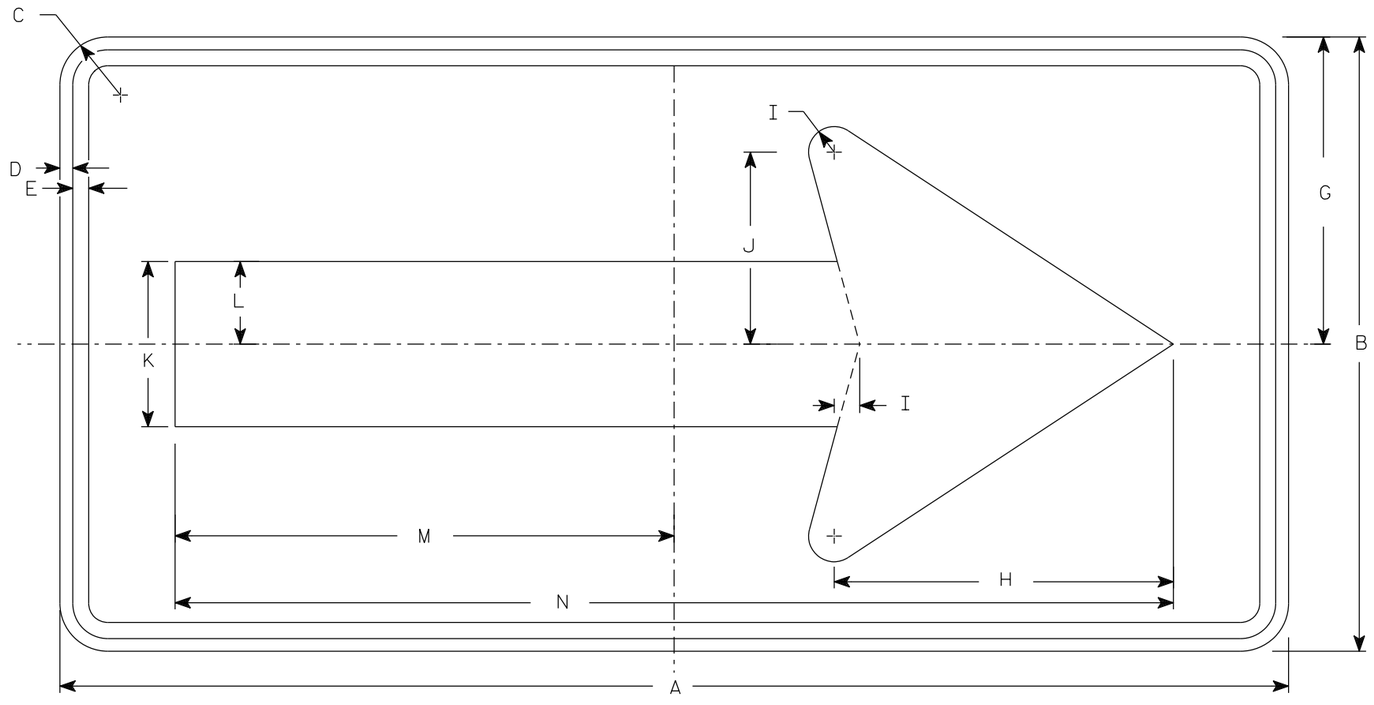
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/5/24 PLATE NO. R11-3.10

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 444	E

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Yellow
   Message - Black



W1-6

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36	18	1 1/2	3/8	3/8		9	10	3/4	5 5/8	4 3/4	2 3/8	14 5/8	29 1/4													4.5
2S	48	24	1 7/8	1/2	5/8		12	13 1/4	1	7 1/2	6 1/2	3 1/4	19 1/2	39													8.0
2M	48	24	1 7/8	1/2	5/8		12	13 1/4	1	7 1/2	6 1/2	3 1/4	19 1/2	39													8.0
3	60	30	1 7/8	1/2	5/8		15	16 1/4	1 1/4	9 1/4	8	4	24 3/8	48 3/4													12.5
4	60	30	1 7/8	1/2	5/8		15	16 1/4	1 1/4	9 1/4	8	4	24 3/8	48 3/4													12.5
5	96	48	3	3/4	1		24	26 1/2	2	15	13	6 1/2	39	78													32.0

STANDARD SIGN

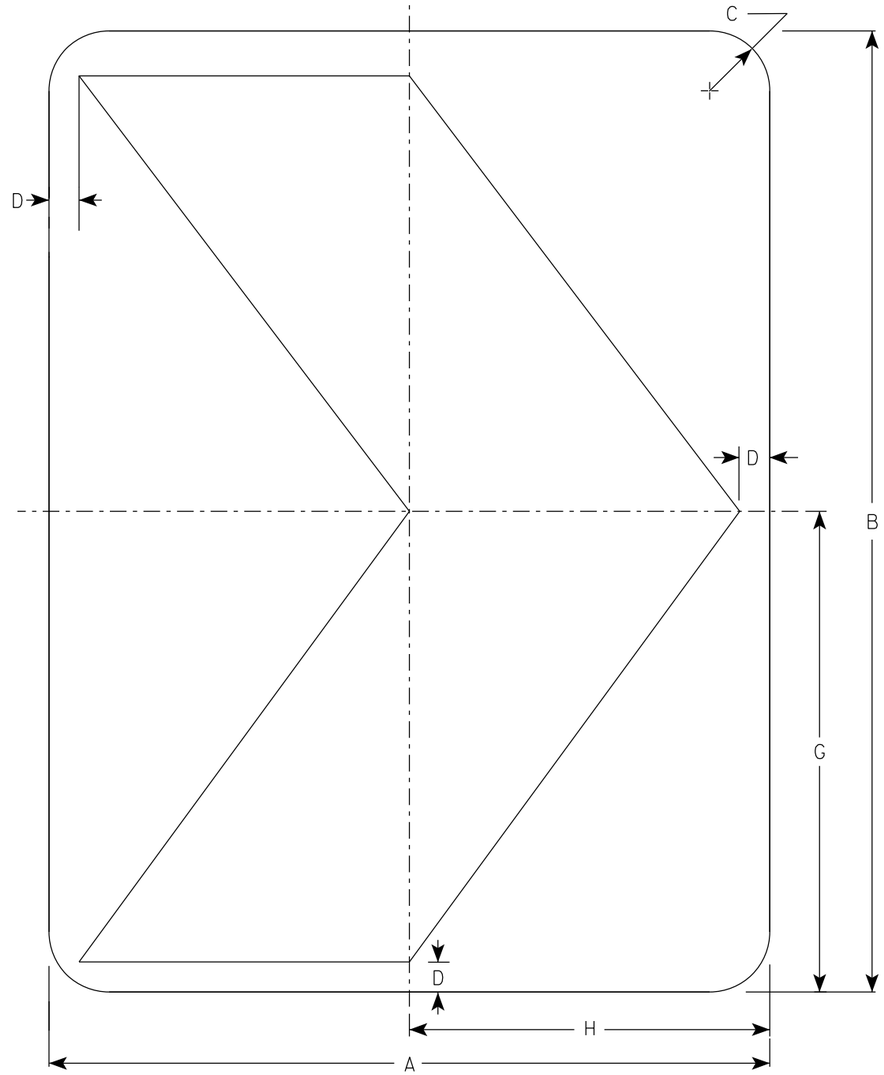
W1-6

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 4/13/2023 PLATE NO. W1-6.9

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E



W1-8

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Yellow
   Message - Black

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	12	18	1 ½	½			9	6																			1.5
2S	18	24	1 ½	¾			12	9																			3.0
2M	18	24	1 ½	¾			12	9																			3.0
3	24	30	1 ½	1			15	12																			5.0
4	30	36	1 ⅞	1 ¼			18	15																			7.5
5	36	48	1 ⅞	1 ½			24	18																			12.0

STANDARD SIGN

W1-8

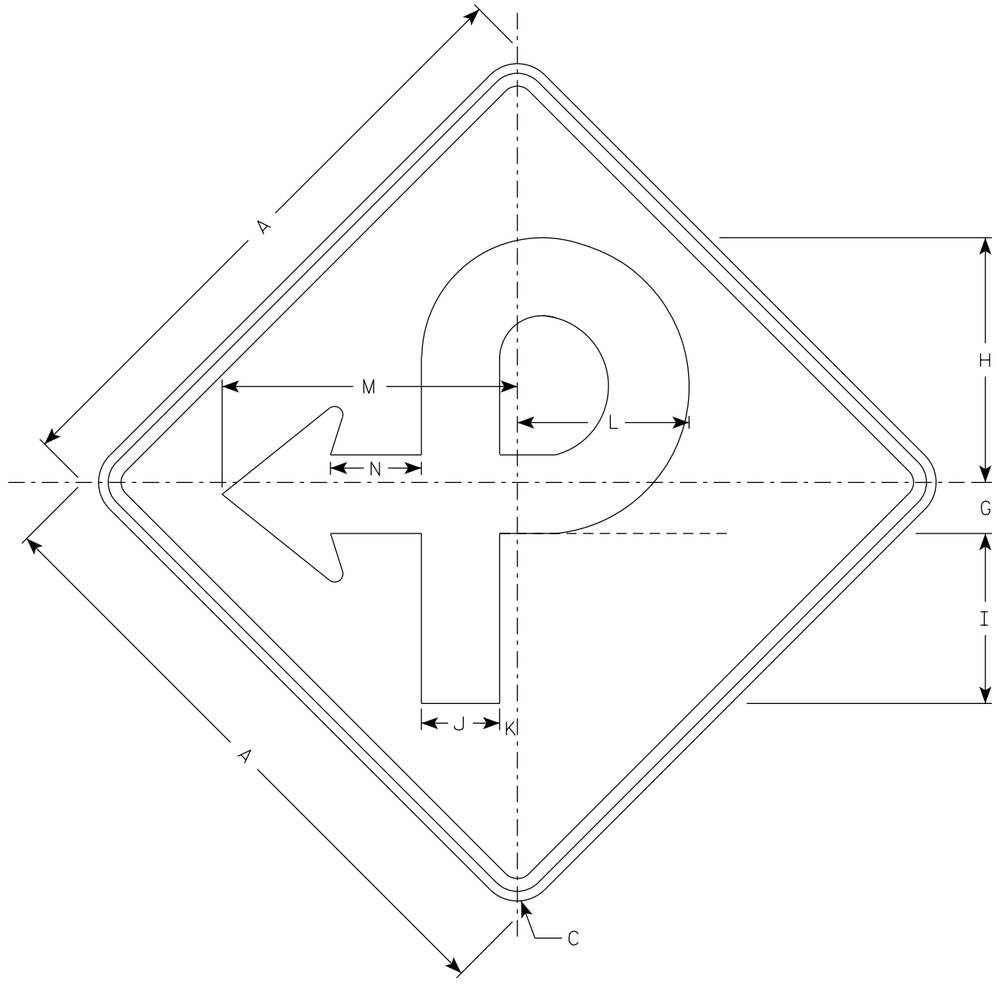
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/11/2023 PLATE NO. W1-8.7

PROJECT NO:

SHEET NO: 446 **E**



W1-60

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Yellow
   Message - Black

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	36		2 1/4	5/8	3/4		3	14 3/8	10	4 5/8	1	10	17 1/4	5 1/4													9.0
2M	36		2 1/4	5/8	3/4		3	14 3/8	10	4 5/8	1	10	17 1/4	5 1/4													9.0
3	36		2 1/4	5/8	3/4		3	14 3/8	10	4 5/8	1	10	17 1/4	5 1/4													9.0
4	48		3	3/4	1		4	19 1/8	13 1/4	6 1/8	1 3/8	13 3/8	23	7 1/8													16.0
5	48		3	3/4	1		4	19 1/8	13 1/4	6 1/8	1 3/8	13 3/8	23	7 1/8													16.0

STANDARD SIGN

W1-60

WISCONSIN DEPT OF TRANSPORTATION

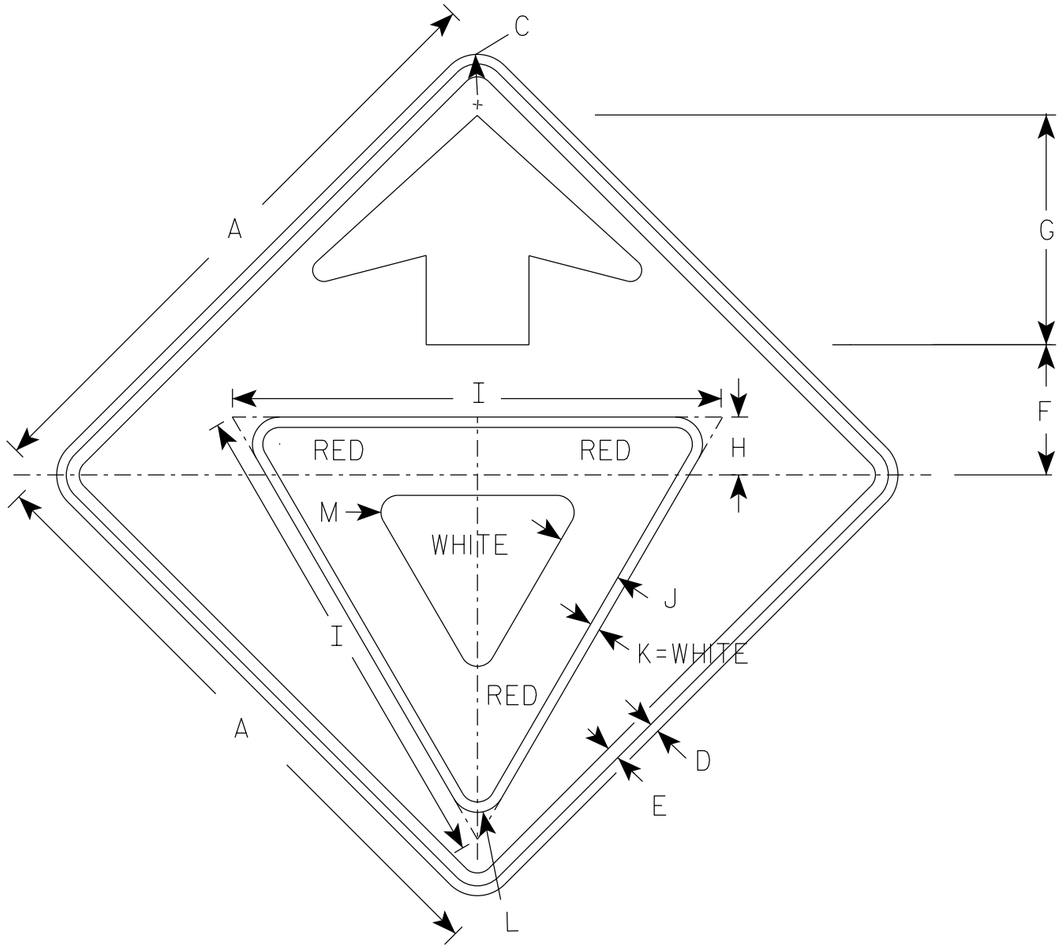
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 8/16/2023 PLATE NO. W1-60.4

PROJECT NO: | HWY: | COUNTY: | SHEET NO: E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\W160.dgn PLOT DATE : 16-AUG 2023 2:22 PLOT BY : dotc4c PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

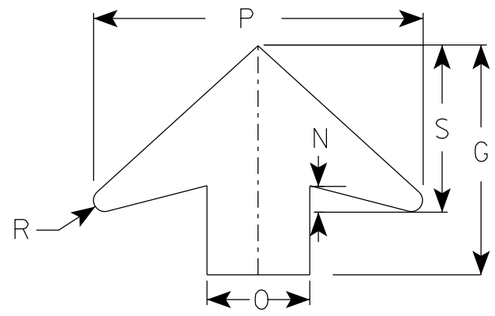
7



W3-2

NOTES

1. Sign is Type II- Type F Reflective
2. Color:
   Background - Yellow
   Arrow & Border - Black
   Yield Symbol - White Border on Red Background



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30		1 7/8	1/2	5/8	6 1/4	11 1/4	3	25	3 3/8	1/2	1 3/8	7/8	1 1/4	5	16		1/2	8								6.25
2S	36		2 1/4	5/8	3/4	7 1/2	13 1/2	3 3/8	28	3 3/4	5/8	1 1/2	1	1 5/8	6	19 1/4		5/8	9 3/4								9.0
2M	36		2 1/4	5/8	3/4	7 1/2	13 1/2	3 3/8	28	3 3/4	5/8	1 1/2	1	1 5/8	6	19 1/4		5/8	9 3/4								9.0
3	36		2 1/4	5/8	3/4	7 1/2	13 1/2	3 3/8	28	3 3/4	5/8	1 1/2	1	1 5/8	6	19 1/4		5/8	9 3/4								9.0
4	48		3	3/4	1	10	17 7/8	4 1/2	38	5	3/4	2 1/8	1 3/8	2	8	25 5/8		7/8	13								16.0
5	48		3	3/4	1	10	17 7/8	4 1/2	38	5	3/4	2 1/8	1 3/8	2	8	25 5/8		7/8	13								16.0

STANDARD SIGN
W3-2

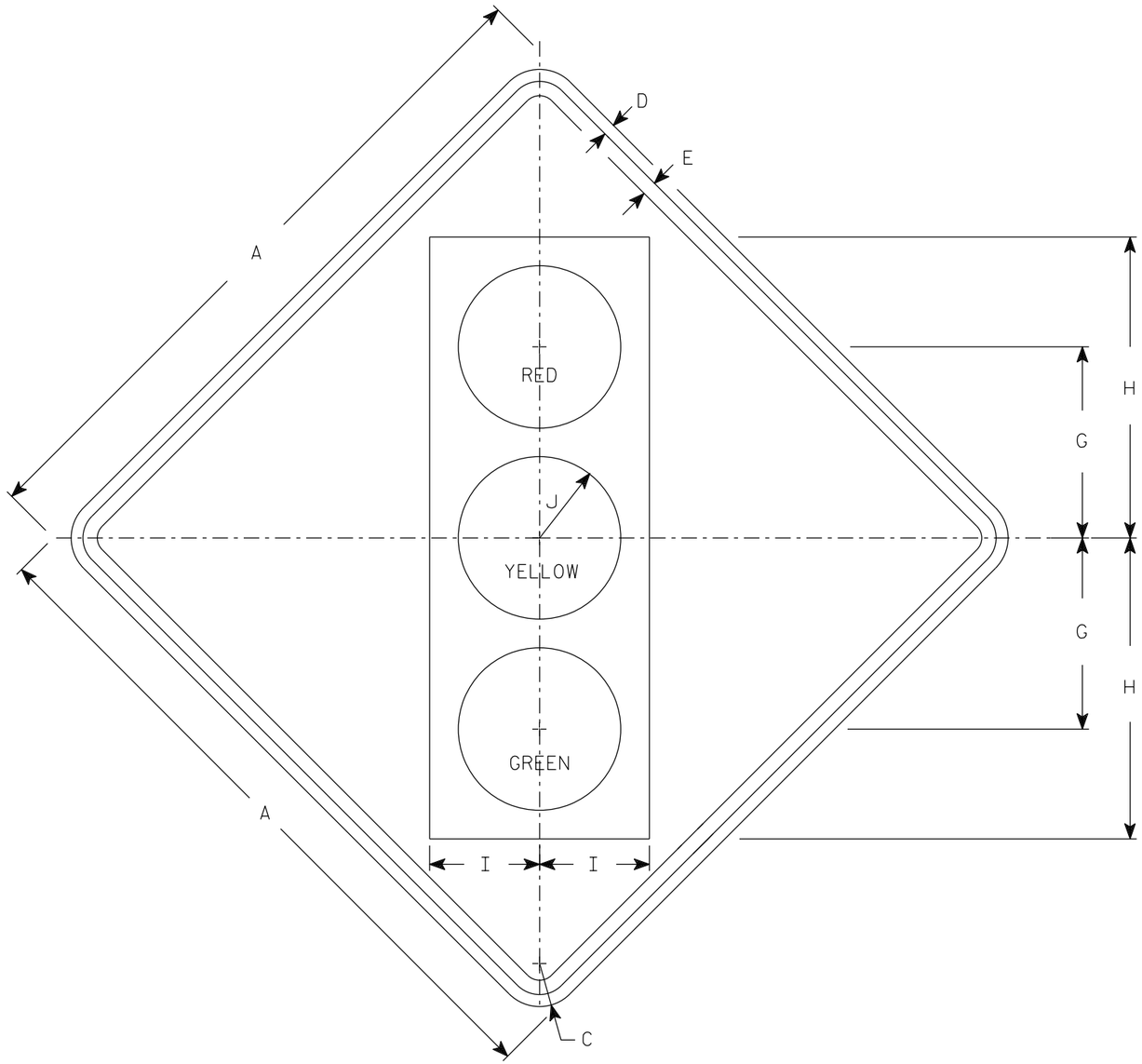
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 8/17/2023 PLATE NO. W3-2.10

PROJECT NO:

SHEET NO: 448 E



W3-3

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Yellow
   Message - See Note 3
3. Symbol and border are non-reflective black.
   Top circle - Type H Reflectorized Red
   Center circle - Same as background
   Bottom circle - Type H Reflectorized Green

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30		1 7/8	1/2	5/8		8 3/4	13 3/4	5	3 3/4																	6.25
2S	36		2 1/4	5/8	3/4		10	15 3/4	5 3/4	4 1/4																	9.0
2M	36		2 1/4	5/8	3/4		10	15 3/4	5 3/4	4 1/4																	9.0
3	36		2 1/4	5/8	3/4		10	15 3/4	5 3/4	4 1/4																	9.0
4	48		3	3/4	1		12 1/2	20	7 1/2	5																	16.0
5	48		3	3/4	1		12 1/2	20	7 1/2	5																	16.0

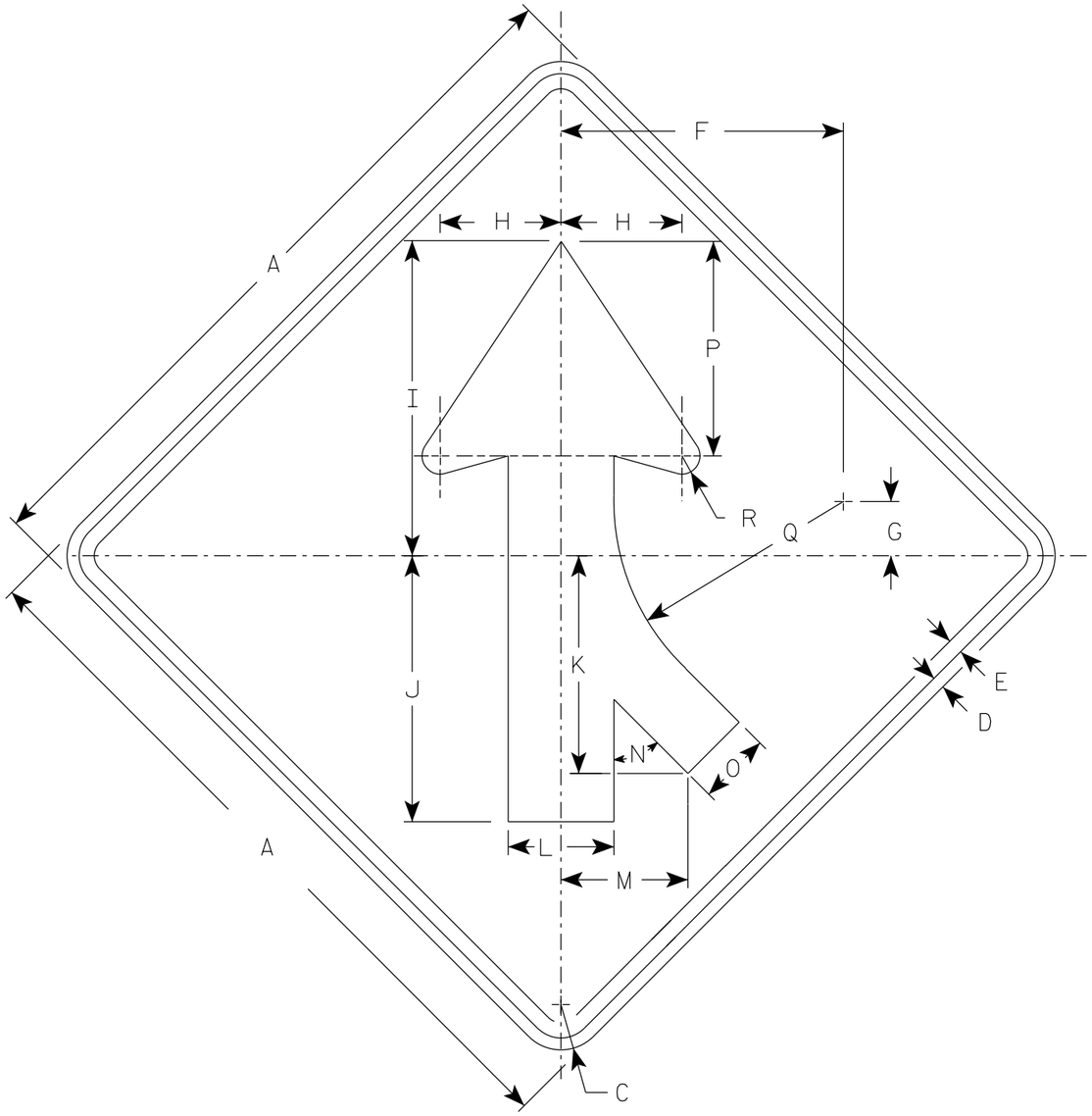
STANDARD SIGN
W3-3

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 8/21/2023 PLATE NO. W3-3.12

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 449	E



W4-1R

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Yellow
   Message - Black
3. W4-1L is the same as W4-1R except the arrow is reversed along the vertical centerline.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30		1 7/8	1/2	5/8	11 5/8	2 1/2	5	13	11	9	4 3/8	5 1/4	45°	3	8 7/8	9 1/2	3/4									6.25
2S	36		2 1/4	5/8	3/4	14	2 3/4	6	15 3/4	13 1/4	10 1/4	5 1/4	6 3/8	45°	3 5/8	10 5/8	11 3/8	7/8									9.0
2M	36		2 1/4	5/8	3/4	14	2 3/4	6	15 3/4	13 1/4	10 1/4	5 1/4	6 3/8	45°	3 5/8	10 5/8	11 3/8	7/8									9.0
3	36		2 1/4	5/8	3/4	14	2 3/4	6	15 3/4	13 1/4	10 1/4	5 1/4	6 3/8	45°	3 5/8	10 5/8	11 3/8	7/8									9.0
4	48		3	3/4	1	18 3/4	3 5/8	8	20 1/2	17 1/2	14 3/8	7	8 3/8	45°	4 3/4	14 1/4	15 1/4	1 1/4									16.0
5	48		3	3/4	1	18 3/4	3 5/8	8	20 1/2	17 1/2	14 3/8	7	8 3/8	45°	4 3/4	14 1/4	15 1/4	1 1/4									16.0

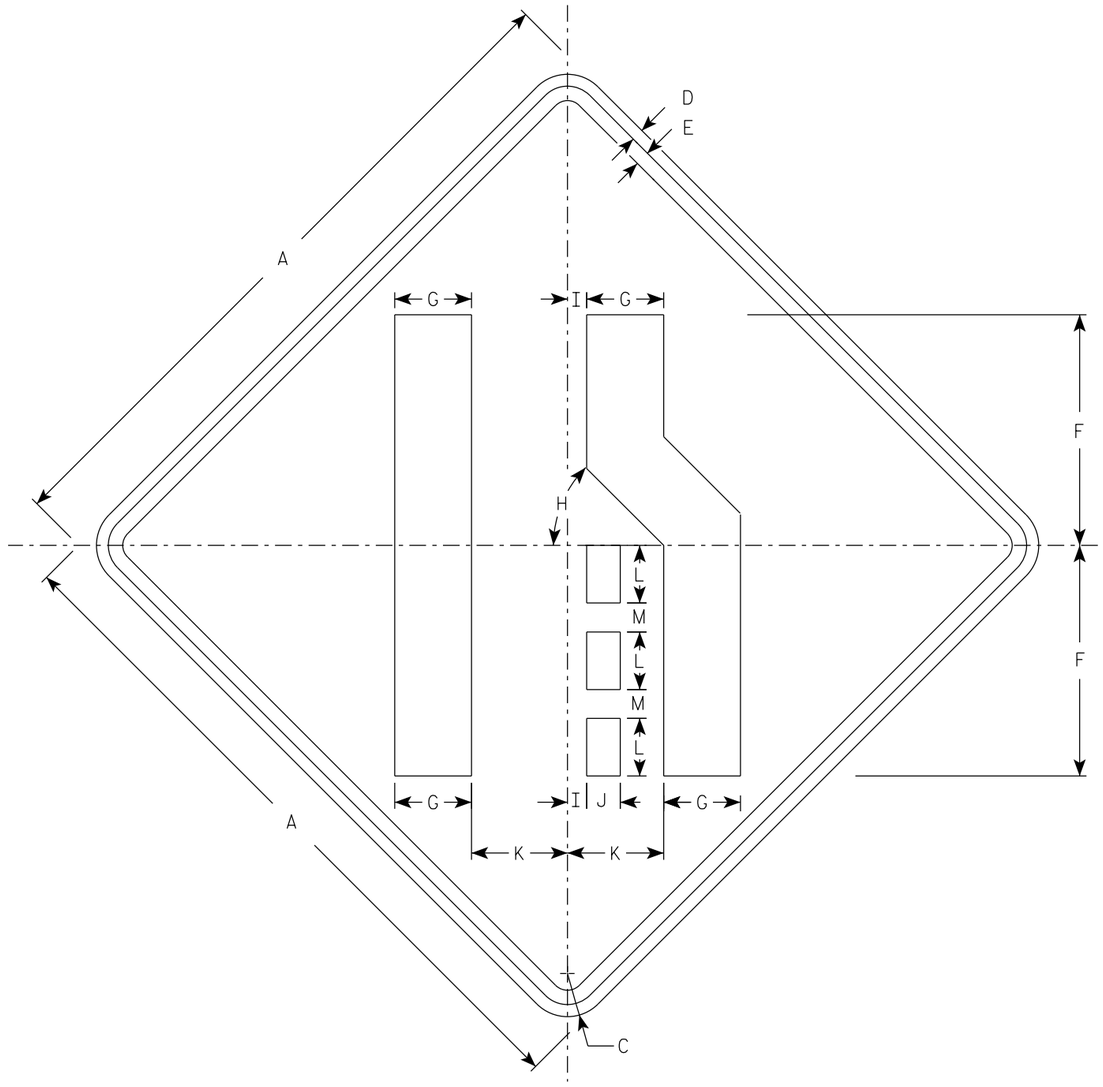
STANDARD SIGN
W4-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 8/31/2023 PLATE NO. W4-1.15

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 450 | E



W4-2R

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Yellow
   Message - Black
3. W4-2L is the same as W4-2R except the symbolis reversed along the vertical centerline.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30		1 7/8	1/2	5/8	10	3 3/8	45°	7/8	1 1/2	4 1/4	2 1/2	1 1/4														6.25
2S	36		2 1/4	5/8	3/4	12	4	45°	1	1 3/4	5	3	1 1/2														9.0
2M	36		2 1/4	5/8	3/4	12	4	45°	1	1 3/4	5	3	1 1/2														9.0
3	36		2 1/4	5/8	3/4	12	4	45°	1	1 3/4	5	3	1 1/2														9.0
4	48		3	3/4	1	16	5 3/8	45°	1 1/4	2 3/8	6 3/4	4	2														16.0
5	48		3	3/4	1	16	5 3/8	45°	1 1/4	2 3/8	6 3/4	4	2														16.0

STANDARD SIGN
W4-2

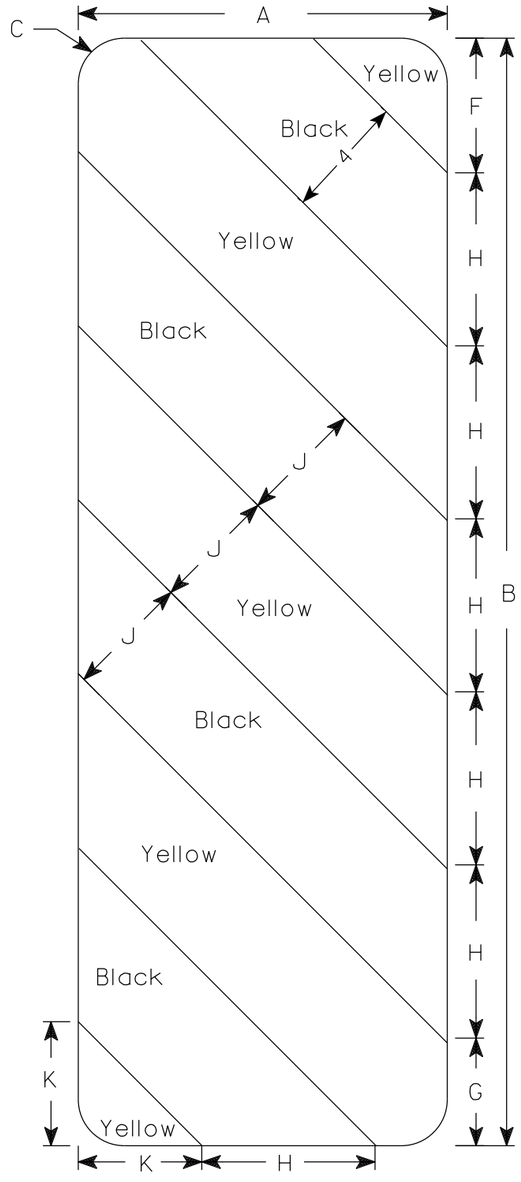
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

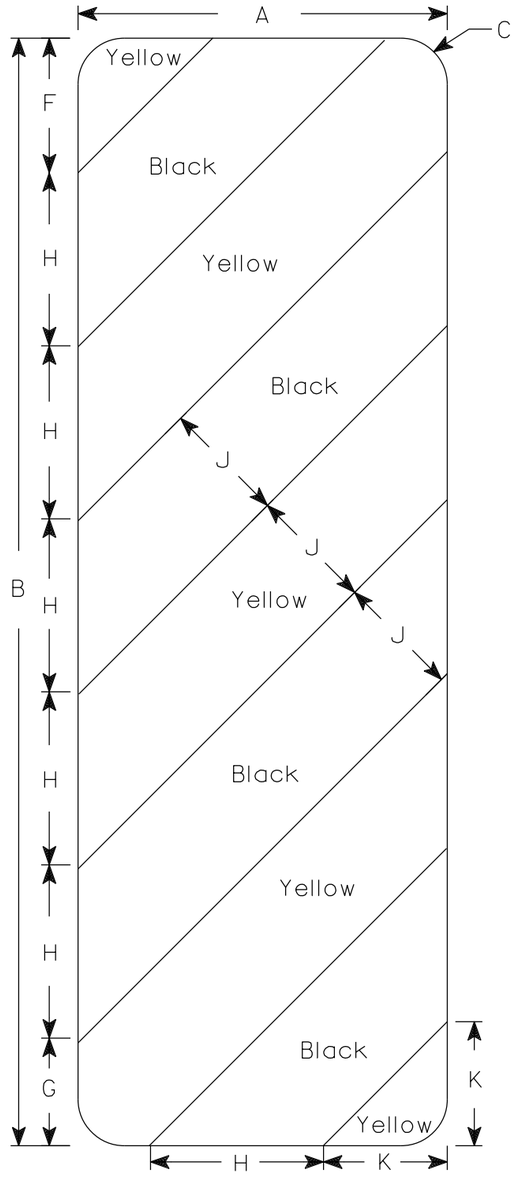
DATE 8/31/2023 PLATE NO. W4-2.15

PROJECT NO:

SHEET NO: E



W5-52L



W5-52R

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Yellow
   Message - Black
3. Alternate colors of stripes as shown.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	12	36	1 1/2			4 3/8	3 1/2	5 5/8	45°	4	4																3.0
2M	12	36	1 1/2			4 3/8	3 1/2	5 5/8	45°	4	4																3.0
3	18	54	1 1/2			6	5 1/2	8 1/2	45°	6	6 9/16																6.75
4																											
5																											

STANDARD SIGN

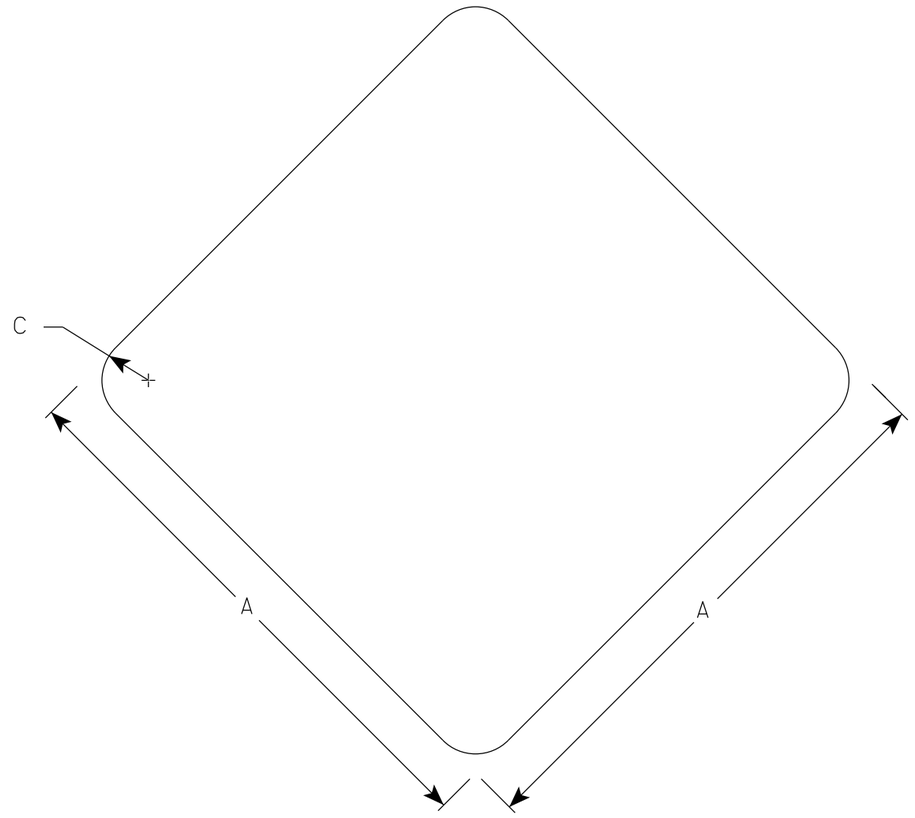
W5-52L & W5-52R

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/4/2024 PLATE NO. W5-52.10

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 452 E



W5-54

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Yellow

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	12		1 ½																								1.0
2S	18		1 ½																								2.25
2M	18		1 ½																								2.25
3																											
4																											
5																											

STANDARD SIGN
W5-54

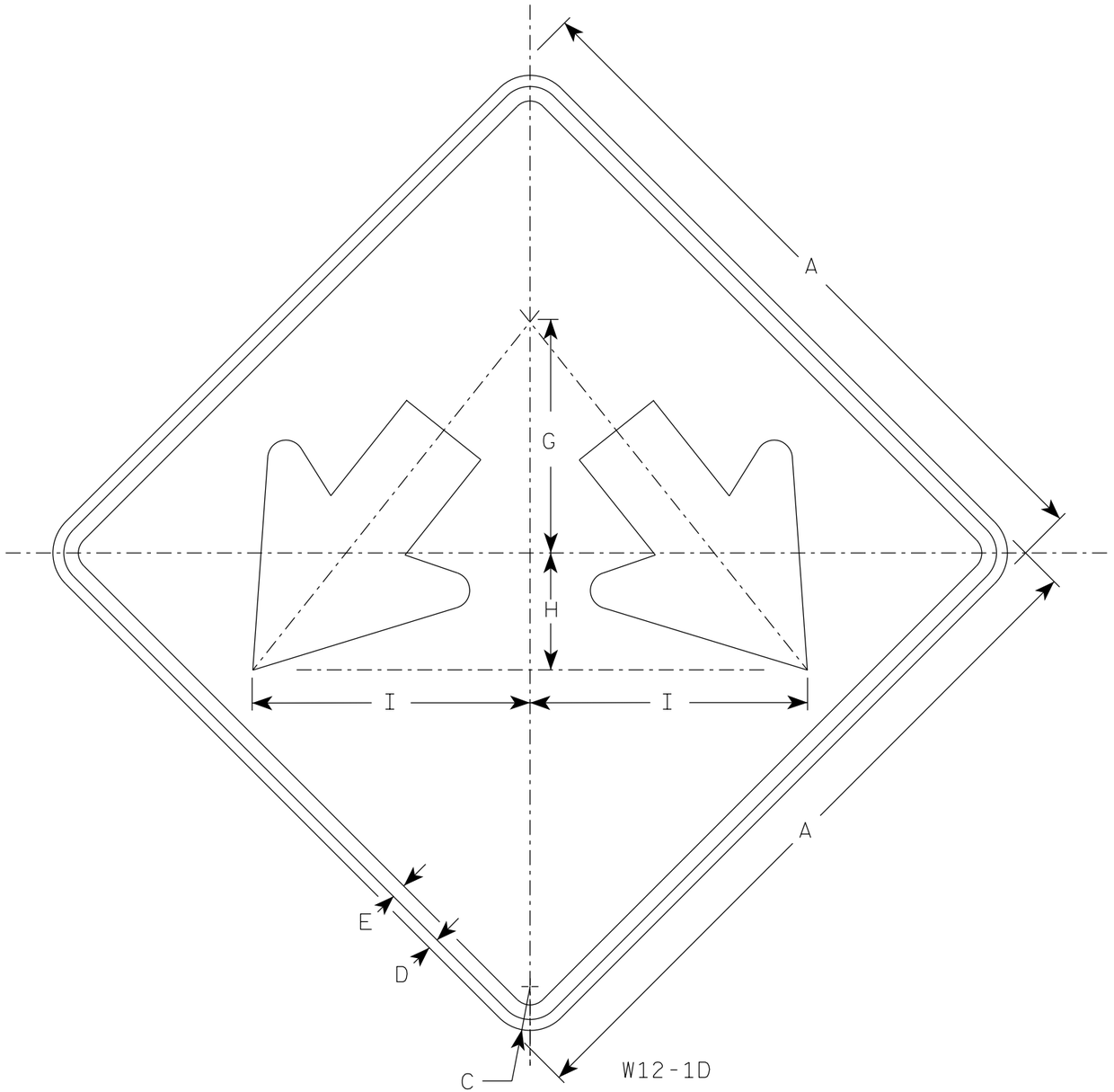
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/5/2024 PLATE NO. W5-54.9

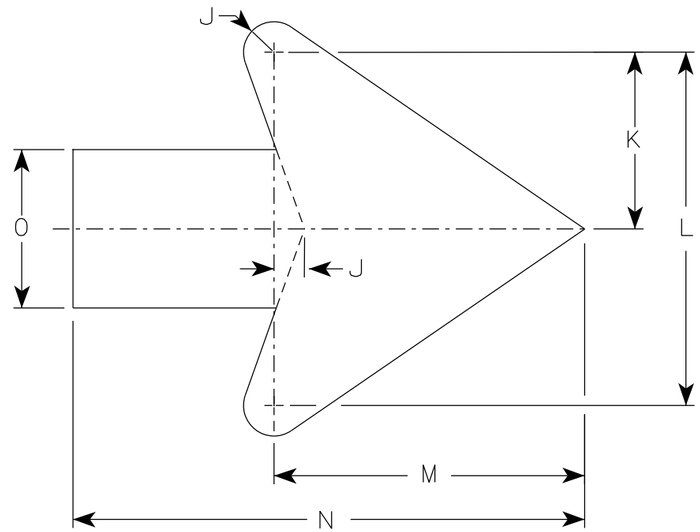
PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate_W554.dgn PLOT DATE : 5-MARCH 2024 11:55 PLOT BY : dotc4c PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42



NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Yellow
   Message - Black



Arrow Detail

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Areq sq. ft.
1																											
2S	24		1 1/2	1/2	3/8		8	4	9 1/2	3/8	3 3/8	7 1/4	6 3/8	10 3/8	3 1/4												4.0
2M	24		1 1/2	1/2	3/8		8	4	9 1/2	3/8	3 3/8	7 1/4	6 3/8	10 3/8	3 1/4												4.0
3	30		1 7/8	1/2	5/8		10	5	11 7/8	3/4	4 1/2	9	7 7/8	13	4												6.25
4	36		2 1/4	1/2	5/8		12	6	14 1/4	1	5 1/2	10 7/8	9 5/8	15 3/4	4 3/4												9.0
5	48		3	3/4	1		16	8	19	1 1/4	7 1/4	14 1/2	12 3/4	21	6 1/4												16.0

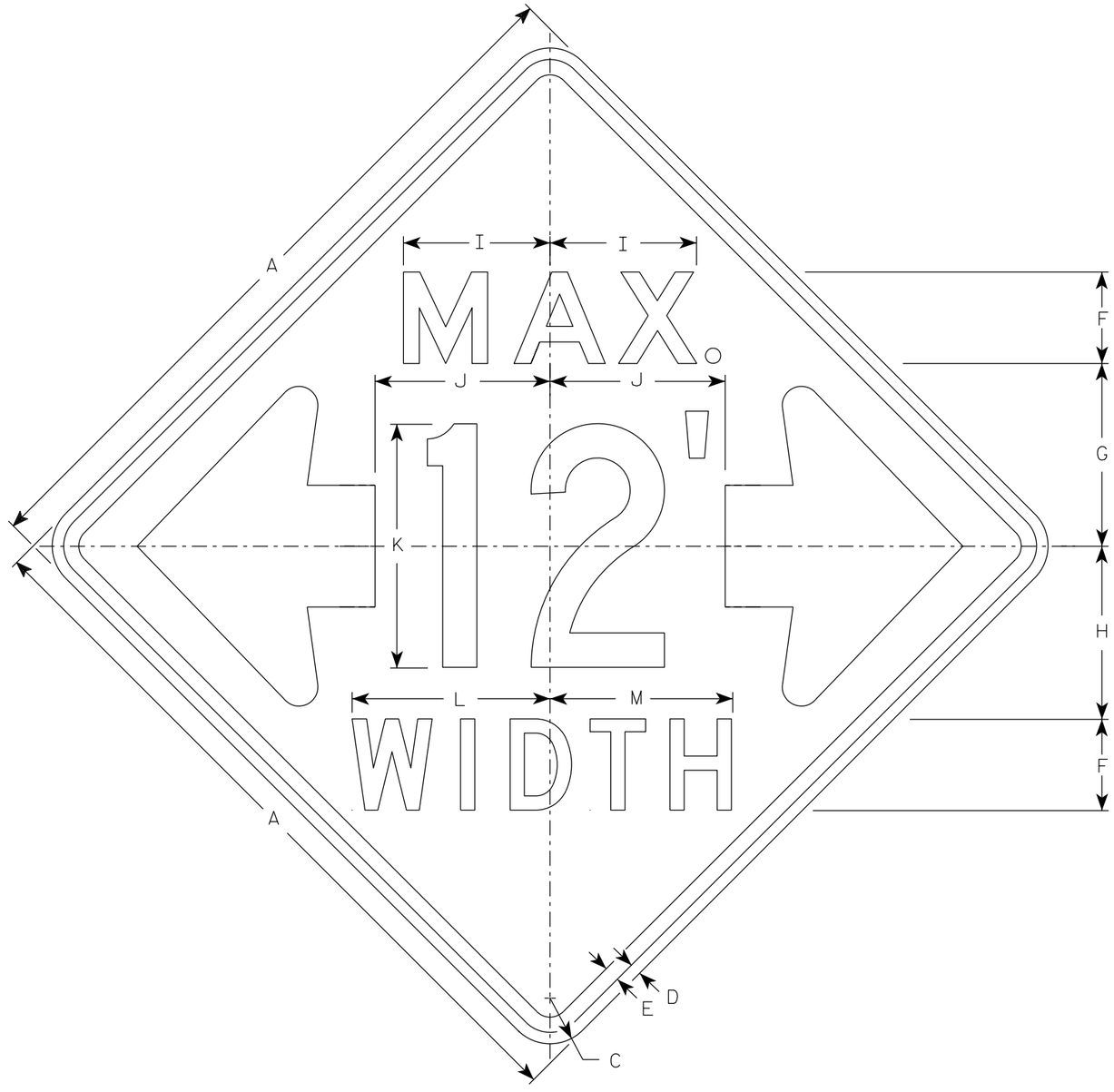
STANDARD SIGN
W12-1D

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/30/2023 PLATE NO. W12-1D.16

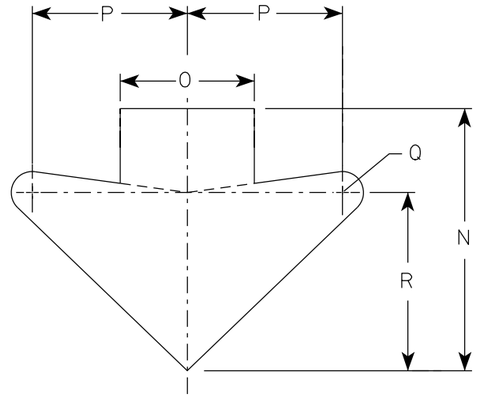
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 454	E



W12-52

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Message Series - See note 5
4. The top line is series E, the numerals are series C, and the bottom line is series D.
5. Substitute appropriate numerals and adjust spacing as required.



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	48		3	¾	1	6	12	11 ⅜	9 ⅝	11 ½	16	13	12	15 ⅝	8	9 ¼	1 ¼	10 ⅝									16.0
2M	48		3	¾	1	6	12	11 ⅜	9 ⅝	11 ½	16	13	12	15 ⅝	8	9 ¼	1 ¼	10 ⅝									16.0
3																											
4																											
5																											

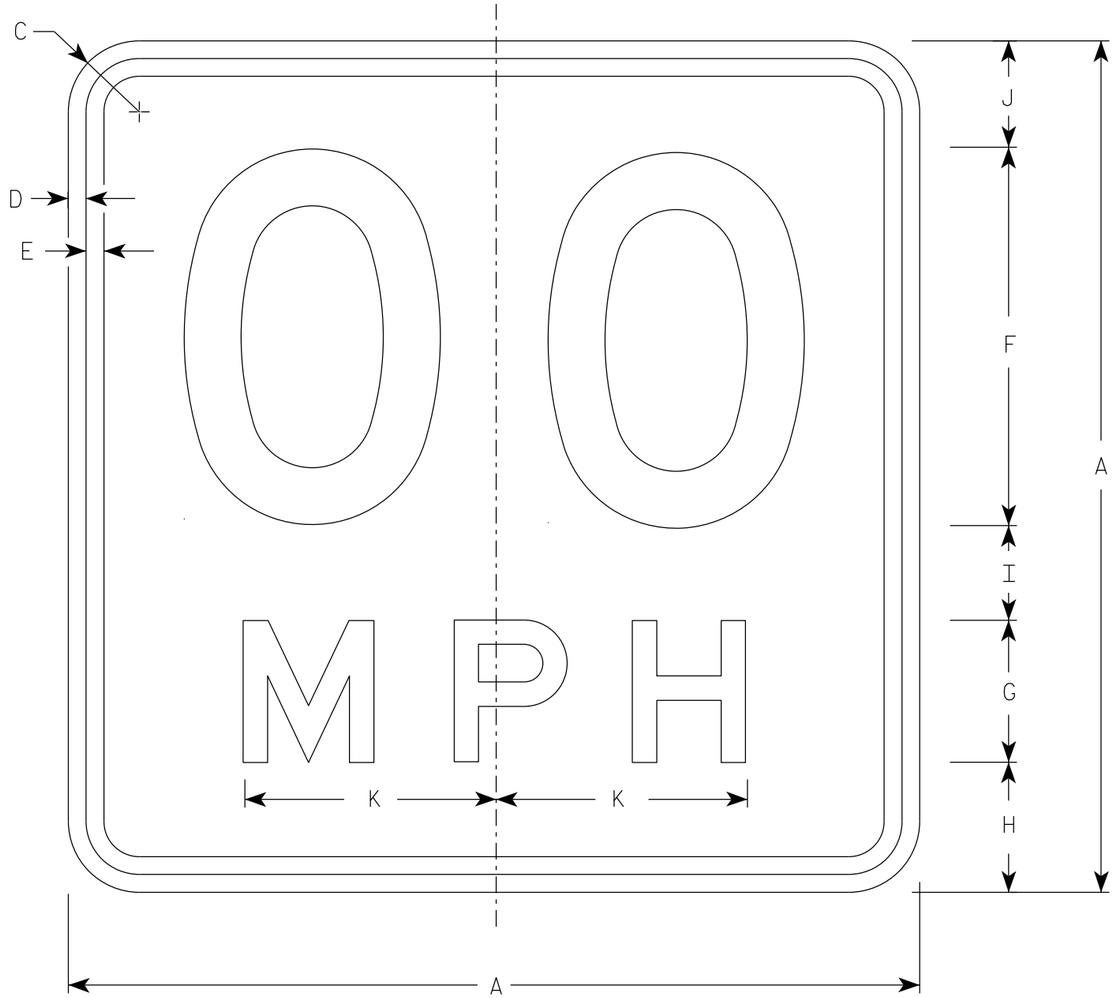
STANDARD SIGN
W12-52

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/10/2024 PLATE NO. W12-52.8

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 455 | E



W13-1

* For 30" x 30" Warning Signs, use 18" x 18" W13-1 signs.
For 36" x 36" Warning Signs, use 24" x 24" W13-1 signs.

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Yellow
   Message - Black
3. Message Series - See Note 5
4. Substitute appropriate numerals and optically space about centerline to achieve proper balance.
5. Line 1 is Series D
   Line 2 is Series E

	SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
	1	18		1 1/2	3/8	3/8	8	3	2 3/4	2	2 1/4	5 3/8																2.25
*	2S	18		1 1/2	3/8	3/8	8	3	2 3/4	2	2 1/4	5 3/8																2.25
*	2M	18		1 1/2	3/8	3/8	8	3	2 3/4	2	2 1/4	5 3/8																2.25
	3	24		1 1/2	3/8	1/2	10	4	4	2 3/4	3 1/4	6 5/8																4.00
	4	36		2 1/4	5/8	3/4	16	6	5 1/2	4	4 1/2	10 5/8																9.00
	5	36		2 1/4	5/8	3/4	16	6	5 1/2	4	4 1/2	10 5/8																9.00

STANDARD SIGN
W13-1

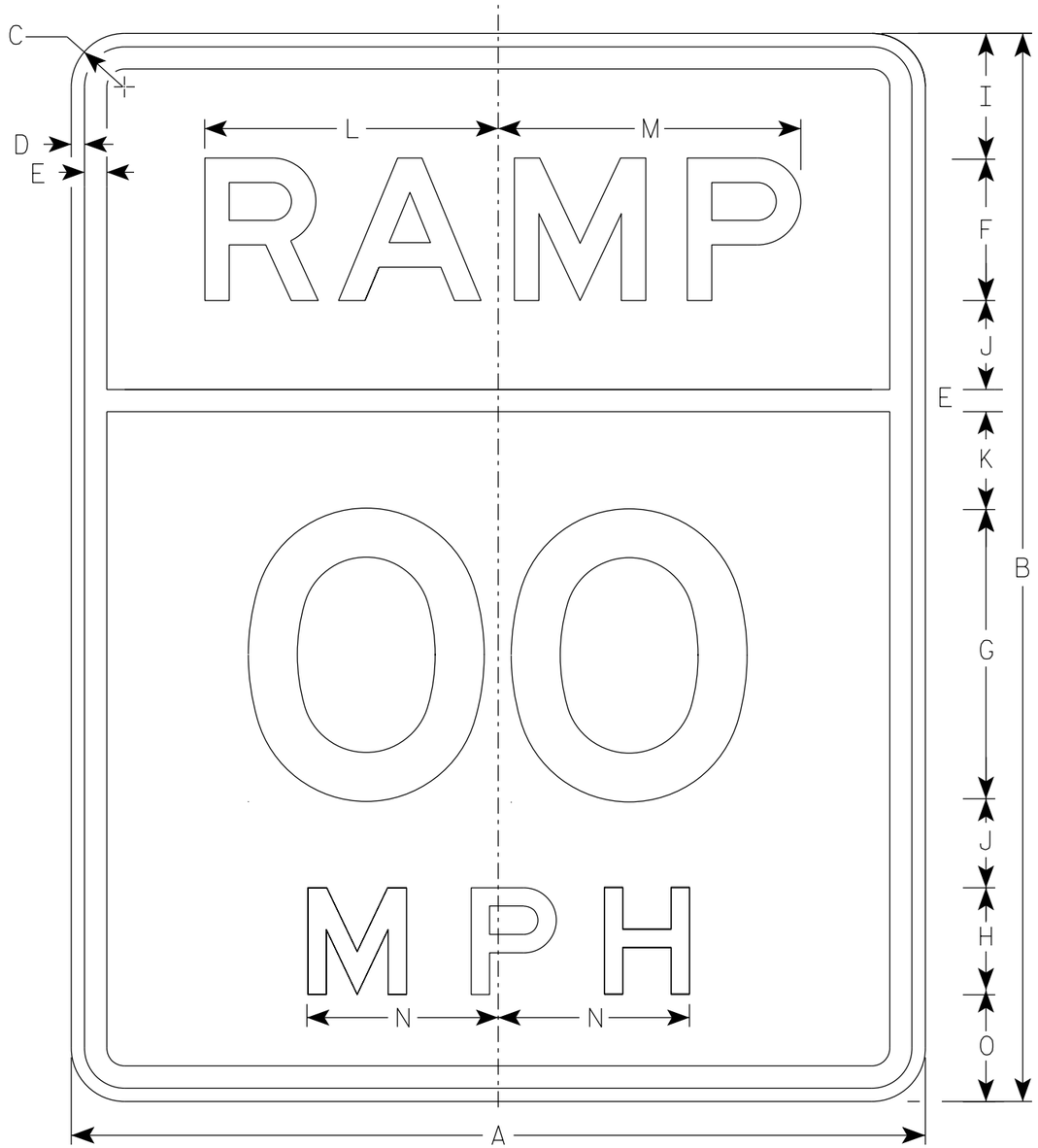
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
For State Traffic Engineer

DATE 1/8/2024 PLATE NO. W13-1.17

PROJECT NO: | HWY: | COUNTY: | SHEET NO: E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\W131.dgn PLOT DATE : 8-Jan 2024 11:07 PLOT BY : dotc4c PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42



W13-3

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Yellow
   Message - Black
3. Message Series - E
4. Substitute appropriate numerals and optically space about centerline to achieve proper balance.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	24	30	1 1/2	3/8	5/8	4	8	3	3 1/2	2 1/2	2 7/8	8 1/4	8 1/2	5 3/8	3												5.0
2S	24	30	1 1/2	3/8	5/8	4	8	3	3 1/2	2 1/2	2 7/8	8 1/4	8 1/2	5 3/8	3												5.0
2M	24	30	1 1/2	3/8	5/8	4	8	3	3 1/2	2 1/2	2 7/8	8 1/4	8 1/2	5 3/8	3												5.0
3	36	48	1 7/8	5/8	7/8	6	12	4	6	4 1/8	5 1/8	13 1/2	13 5/8	7 1/8	6												12.0
4	36	48	1 7/8	5/8	7/8	6	12	4	6	4 1/8	5 1/8	13 1/2	13 5/8	7 1/8	6												12.0
5	48	60	3	3/4	1 1/4	8	16	6	7	5	5 3/4	16 1/2	17	10 5/8	6												20.0

STANDARD SIGN
W13-3

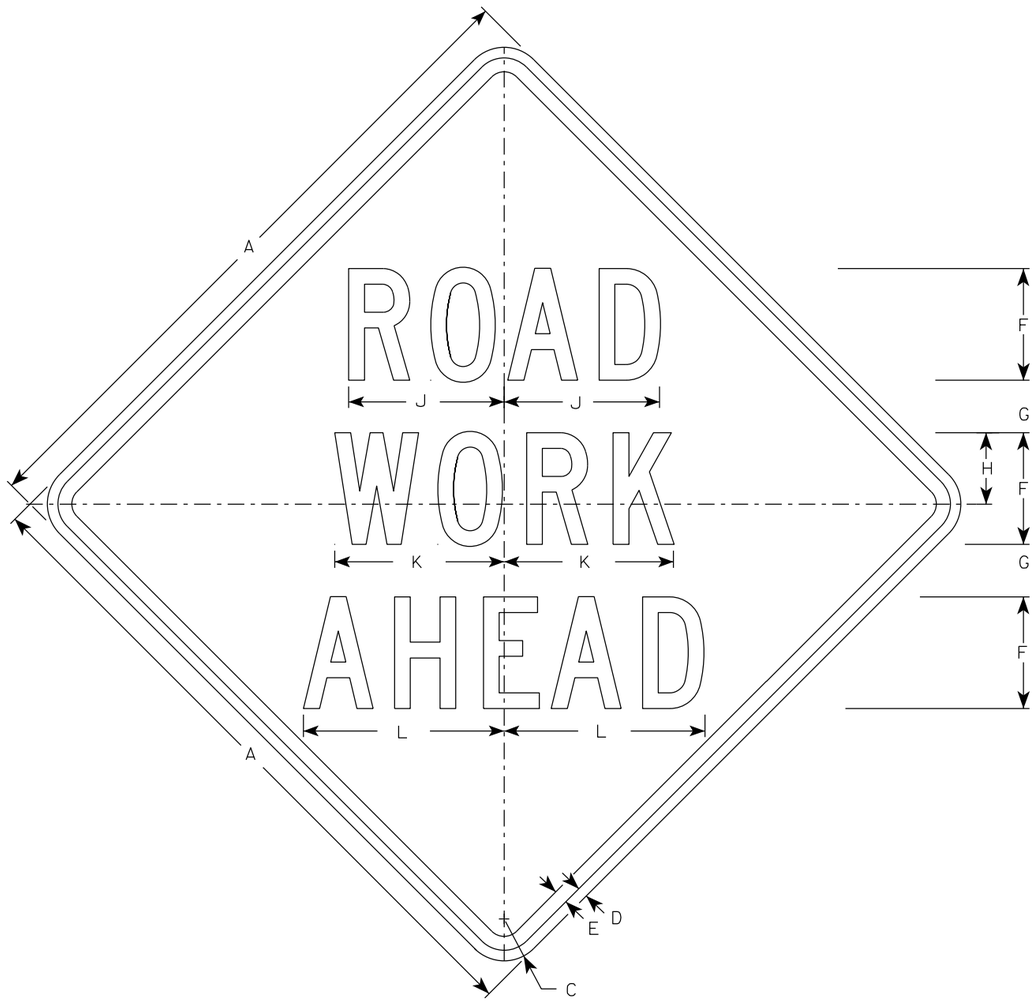
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

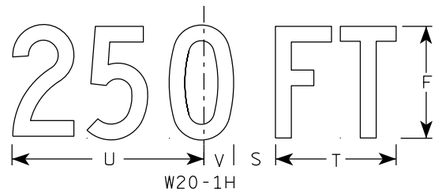
DATE 1/8/2024 PLATE NO. W13-3.11

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 457 E

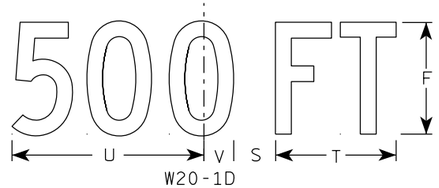
7



W20-1A



W20-1H



W20-1D



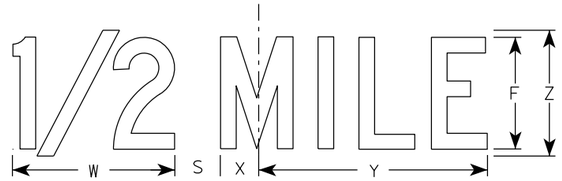
W20-1C



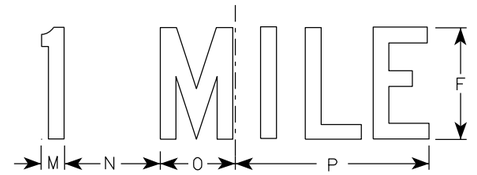
W20-1B

NOTES

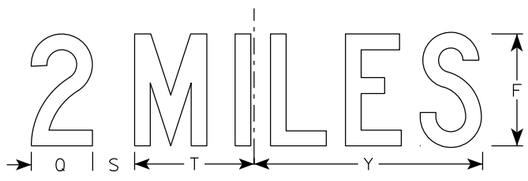
1. Sign is Type II - Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



W20-1G



W20-1F



W20-1E

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		2 1/4	5/8	3/4	5	2 5/8	3 1/4	10 1/8	7	7 5/8	8 7/8	1 1/8	4 1/2	3 1/2	9	3 1/4	2 1/2	2 1/4	5 5/8	9	1 3/8	8	1 3/4	10 3/4	6	9.0
2S	48		3	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0
2M	48		3	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0
3	48		3	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0
4	48		3	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0
5	48		3	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0

STANDARD SIGN
W20-1A, B, C, D, E, F, G & H

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 1/10/2024 PLATE NO. W20-1.12

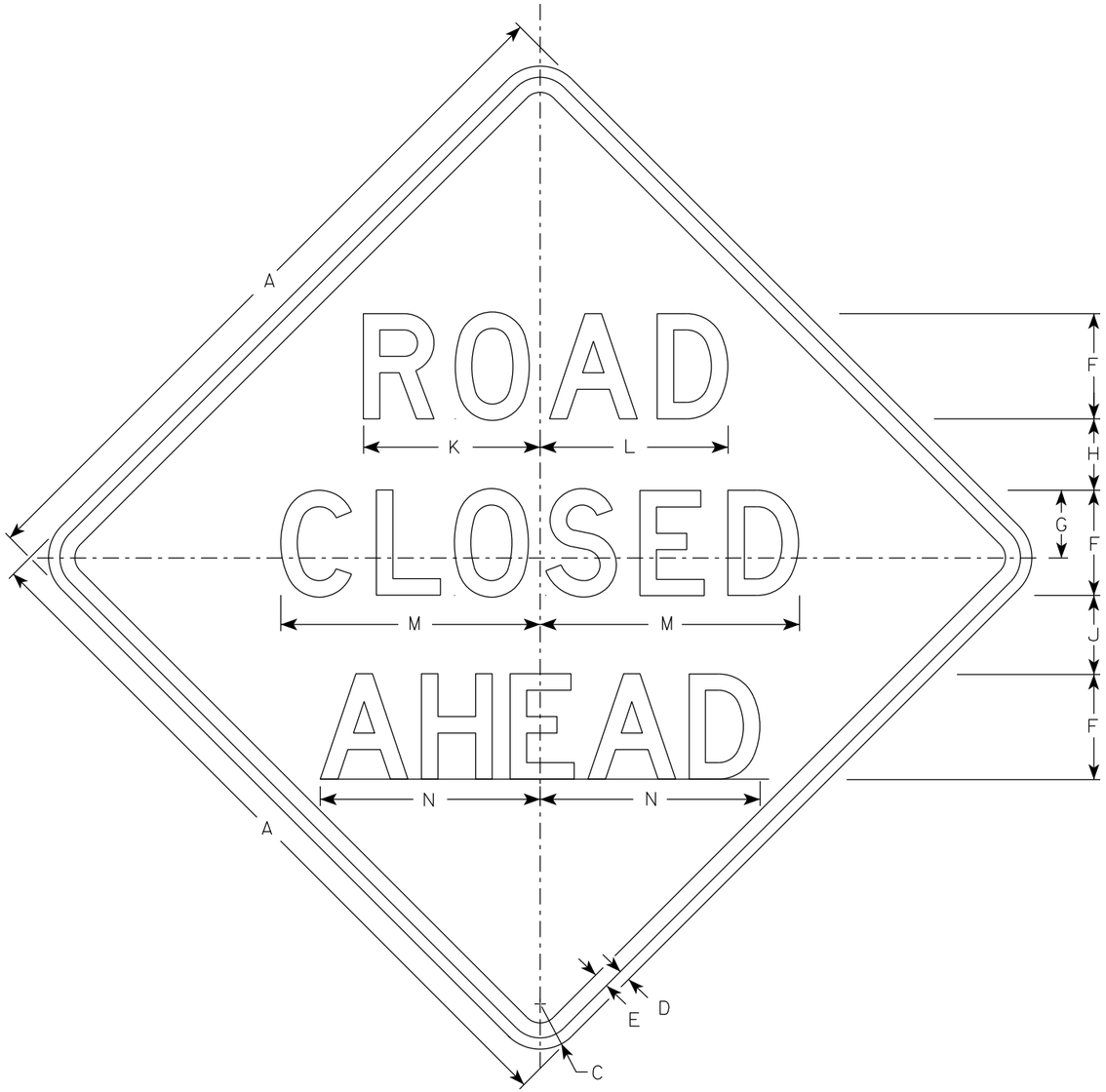
PROJECT NO:

SHEET NO: 458 E

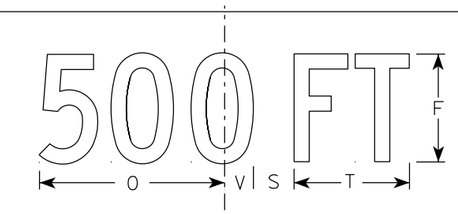
FILE NAME : C:\CAEfiles\Projects\tr_stdplate\W201.DGN PLOT DATE : 10-JAN 2024 11:16 PLOT BY : dotc4c

WISDOT/CADDS SHEET 42

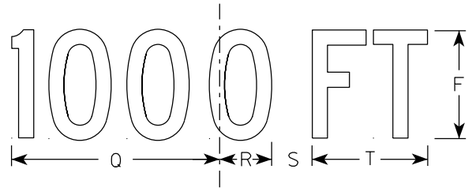
7



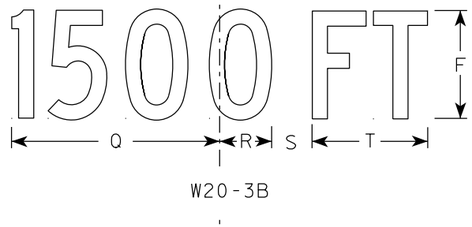
W20-3A



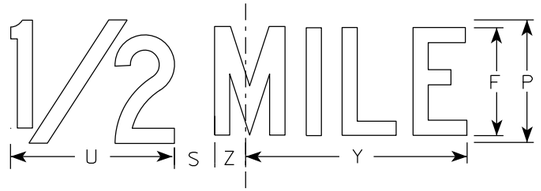
W20-3D



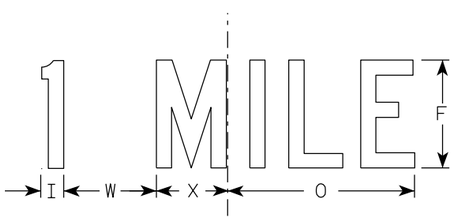
W20-3C



W20-3B



W20-3G



W20-3F

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Message Series - see note 5
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Lines 1 and 2 are Series D.
   Line 3 is Series D for AHEAD and Series C for all other distances.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		2 1/4	5/8	3/4	5	3 3/8	3 1/2	1 1/8	4	8 3/8	8 7/8	12 1/2	11	9	6	10 1/8	2 1/2	1 7/8	5 5/8	8	1 3/8	4 1/2	3 1/2	10 3/4	1 3/4	9.0
2S	48		3	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 7/8	6	4 5/8	14 3/8	2 3/8	16.0
2M	48		3	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 7/8	6	4 5/8	14 3/8	2 3/8	16.0
3	48		3	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 7/8	6	4 5/8	14 3/8	2 3/8	16.0
4	48		3	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 7/8	6	4 5/8	14 3/8	2 3/8	16.0
5	48		3	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 7/8	6	4 5/8	14 3/8	2 3/8	16.0

STANDARD SIGN
W20-3A, B, C, D, F & G

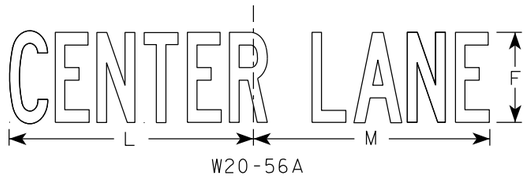
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

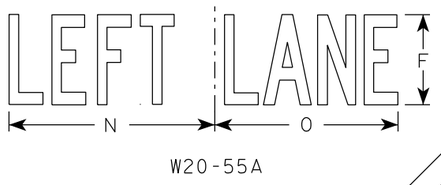
DATE 1/10/2024 PLATE NO. W20-3.8

PROJECT NO: | HWY: | COUNTY: | SHEET NO: E

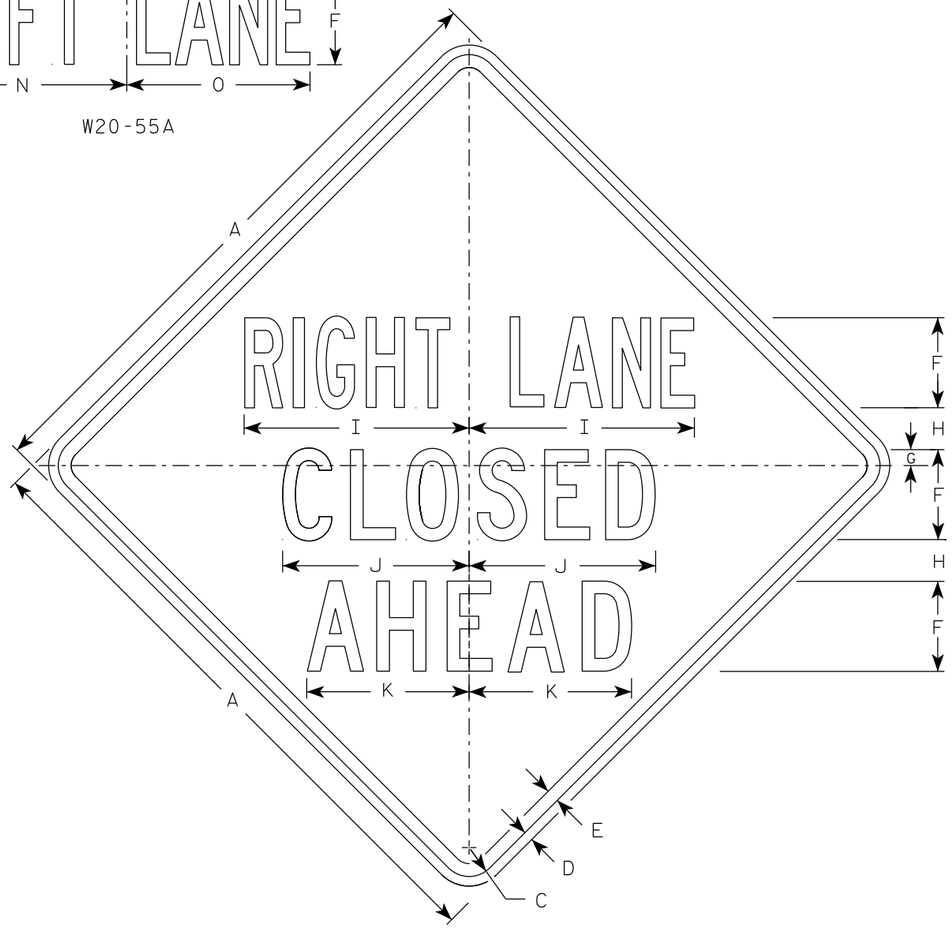
FILE NAME : C:\CAEfiles\Projects\tr_stdplate\W203.DGN PLOT DATE : 10-JAN 2024 12:02 PLOT BY : dotc4c PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42



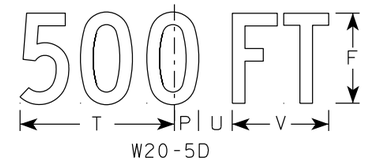
W20-56A



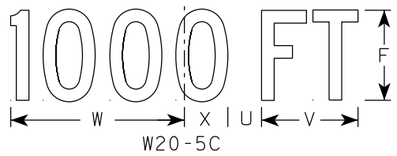
W20-55A



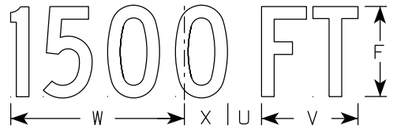
W20-5A



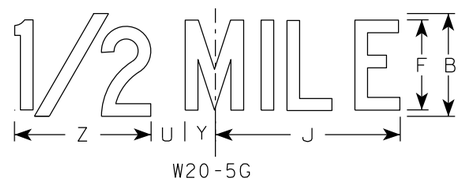
W20-5D



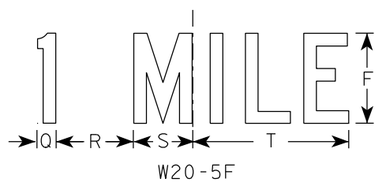
W20-5C



W20-5B



W20-5G



W20-5F

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Message Series - See Note 5
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. " _____ LANE" is Series B.
   All other copy is Series C.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36	6	2 1/4	5/8	3/4	5	7/8	2 1/2	13 1/8	10 3/4	9 1/2	14 1/4	13 5/8	12	12	1 3/8	1 1/8	4 1/2	3 1/2	9	1 7/8	5 5/8	10 1/8	2 1/2	1 3/4	8	9.0
2S	48	8	3	3/4	1	7	1 1/4	3 1/4	17 1/2	14 3/8	12 5/8	19	18 3/8	16	14 1/4	1 7/8	1 1/2	6	4 5/8	12	2 5/8	7 1/2	13 1/2	3 3/8	2 3/8	10 5/8	16.0
2M	48	8	3	3/4	1	7	1 1/4	3 1/4	17 1/2	14 3/8	12 5/8	19	18 3/8	16	14 1/4	1 7/8	1 1/2	6	4 5/8	12	2 5/8	7 1/2	13 1/2	3 3/8	2 3/8	10 5/8	16.0
3	48	8	3	3/4	1	7	1 1/4	3 1/4	17 1/2	14 3/8	12 5/8	19	18 3/8	16	14 1/4	1 7/8	1 1/2	6	4 5/8	12	2 5/8	7 1/2	13 1/2	3 3/8	2 3/8	10 5/8	16.0
4	48	8	3	3/4	1	7	1 1/4	3 1/4	17 1/2	14 3/8	12 5/8	19	18 3/8	16	14 1/4	1 7/8	1 1/2	6	4 5/8	12	2 5/8	7 1/2	13 1/2	3 3/8	2 3/8	10 5/8	16.0
5	48	8	3	3/4	1	7	1 1/4	3 1/4	17 1/2	14 3/8	12 5/8	19	18 3/8	16	14 1/4	1 7/8	1 1/2	6	4 5/8	12	2 5/8	7 1/2	13 1/2	3 3/8	2 3/8	10 5/8	16.0

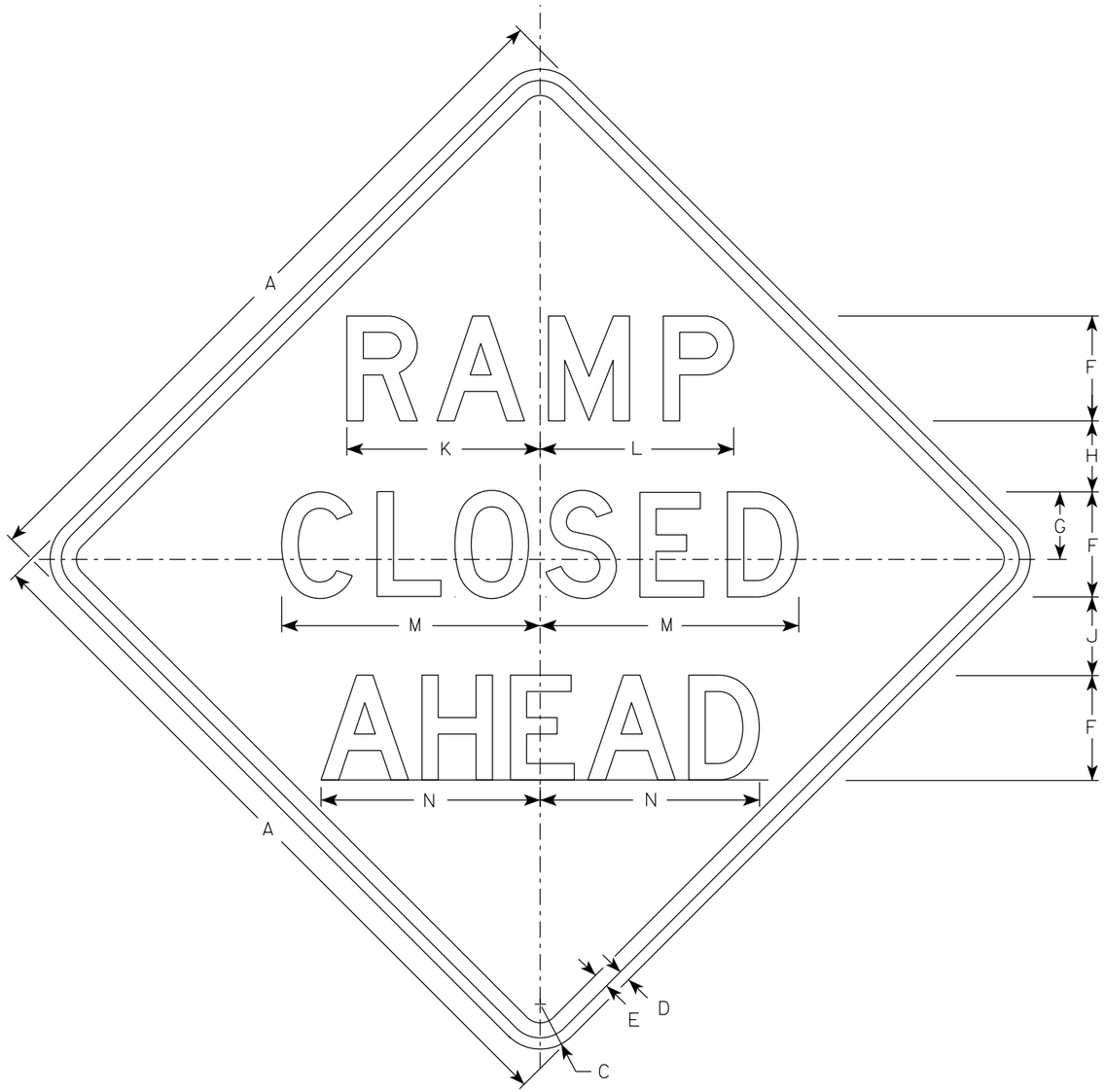
STANDARD SIGN
W20-5A, B, C, D, F & G

WISCONSIN DEPT OF TRANSPORTATION

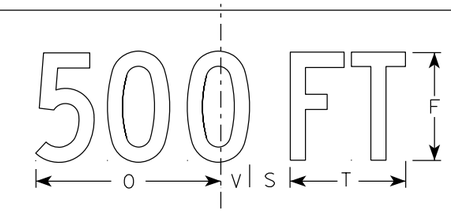
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/27/24 PLATE NO. W20-5.12

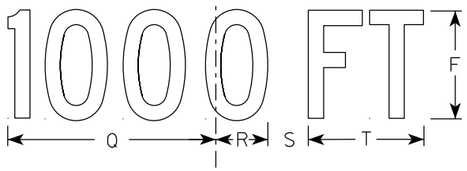
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 460 | E



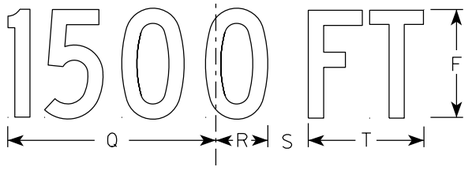
W20-53A



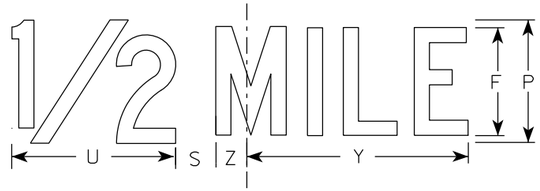
W20-53D



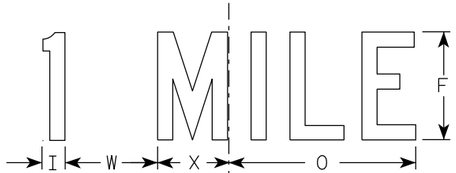
W20-53C



W20-53B



W20-53G



W20-53F

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Message Series - see note 5
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Lines 1 and 2 are Series D.
   Line 3 is Series D for AHEAD and Series C for all other distances.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		2 1/4	5/8	3/4	5	3 3/8	3 1/2	1 1/8	4	9 1/4	9 1/4	12 1/2	11	9	6	10 1/8	2 1/2	1 7/8	5 5/8	8	1 3/8	4 1/2	3 1/2	10 3/4	1 3/4	9.0
2S	48		3	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	12 7/8	12 7/8	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 7/8	6	4 5/8	14 3/8	2 3/8	16.0
2M	48		3	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	12 7/8	12 7/8	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 7/8	6	4 5/8	14 3/8	2 3/8	16.0
3	48		3	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	12 7/8	12 7/8	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 7/8	6	4 5/8	14 3/8	2 3/8	16.0
4	48		3	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	12 7/8	12 7/8	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 7/8	6	4 5/8	14 3/8	2 3/8	16.0
5	48		3	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	12 7/8	12 7/8	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 7/8	6	4 5/8	14 3/8	2 3/8	16.0

STANDARD SIGN
W20-53A,B,C,D,F,G

WISCONSIN DEPT OF TRANSPORTATION

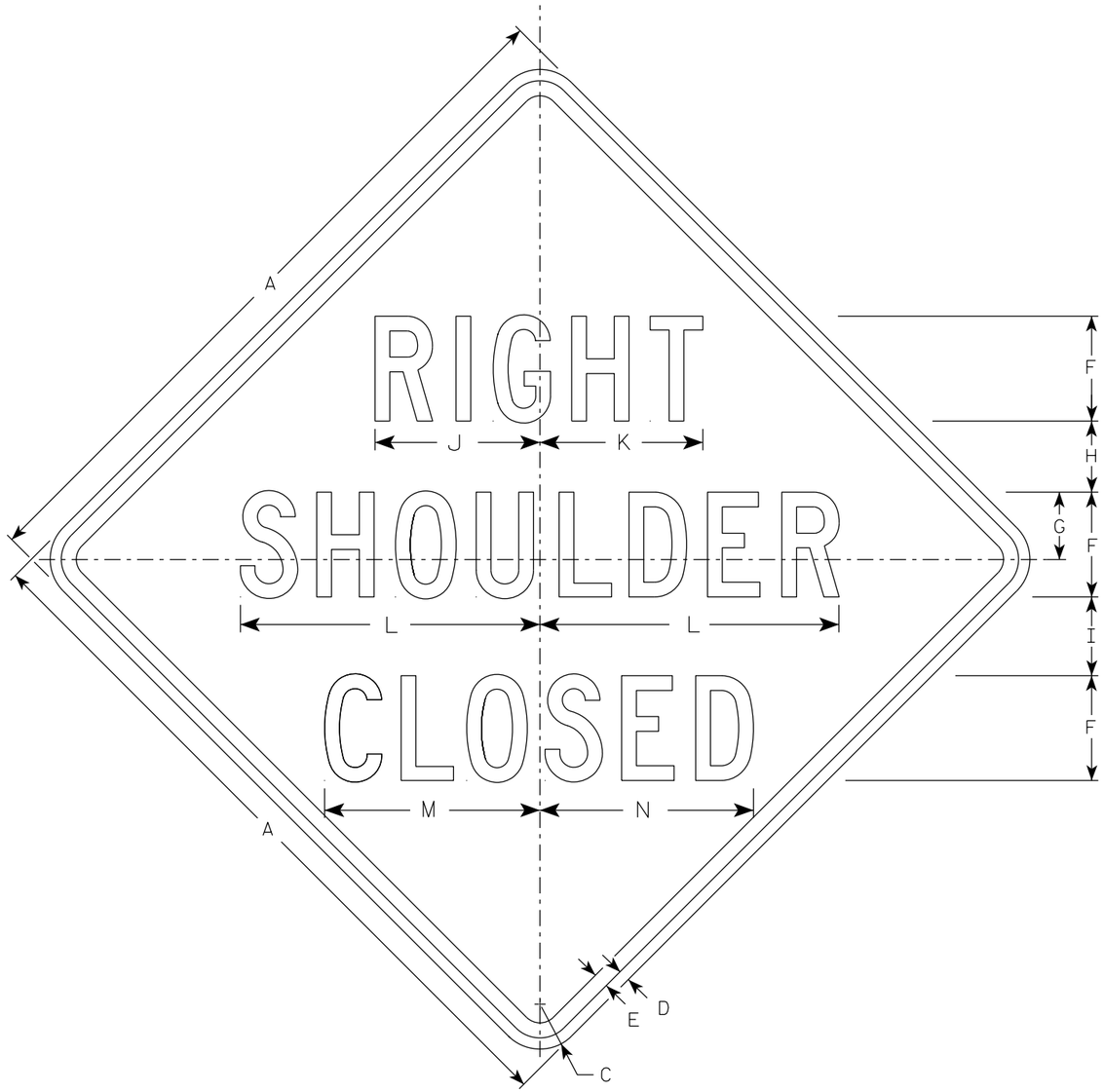
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 1/10/2024 PLATE NO. W20-53.2

PROJECT NO: | HWY: | COUNTY: | SHEET NO: E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\W2053.DGN PLOT DATE : 10-JAN 2024 2:38 PLOT BY : dotc4c PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

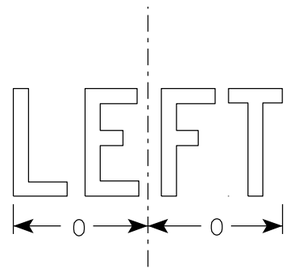
7



W21-5A

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Message Series - D



W21-5AL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		2 1/4	5/8	3/4	5	3 3/8	3 1/2	4	7 7/8	7 3/4	14 1/4	10 1/4	10 1/8	6 1/4												9.0
2S	48		3	3/4	1	7	4 1/2	4 3/4	5 1/4	11	10 7/8	20	14 3/8	14 1/4	8 3/4												16.0
2M	48		3	3/4	1	7	4 1/2	4 3/4	5 1/4	11	10 7/8	20	14 3/8	14 1/4	8 3/4												16.0
3	48		3	3/4	1	7	4 1/2	4 3/4	5 1/4	11	10 7/8	20	14 3/8	14 1/4	8 3/4												16.0
4	48		3	3/4	1	7	4 1/2	4 3/4	5 1/4	11	10 7/8	20	14 3/8	14 1/4	8 3/4												16.0
5	48		3	3/4	1	7	4 1/2	4 3/4	5 1/4	11	10 7/8	20	14 3/8	14 1/4	8 3/4												16.0

STANDARD SIGN
W21-5A

WISCONSIN DEPT OF TRANSPORTATION

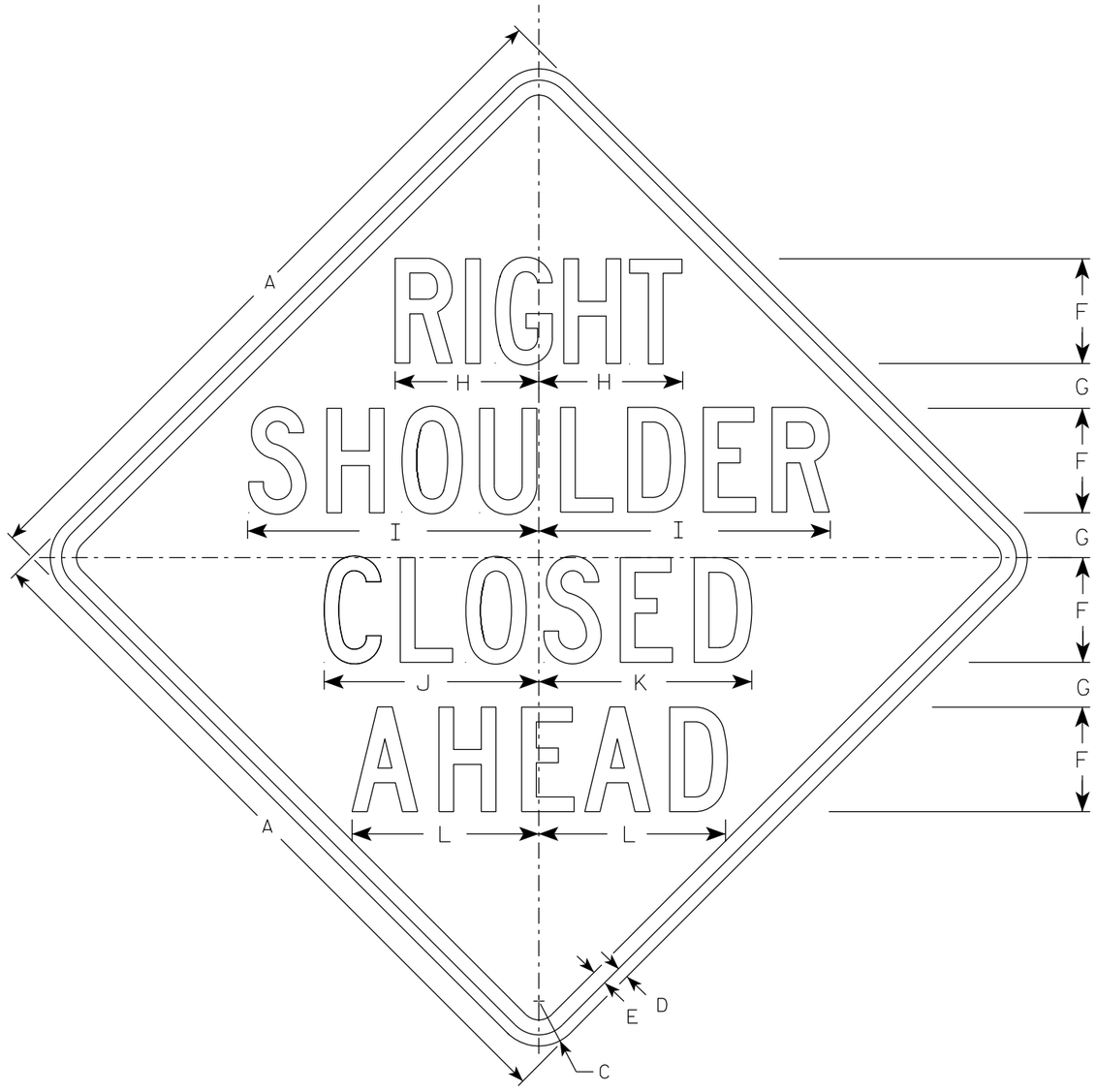
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 1/11/2024 PLATE NO. W21-5A.4

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 462 | E

7

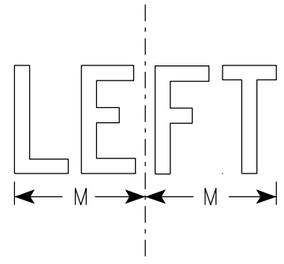
FILE NAME : C:\CAEfiles\Projects\tr_stdplate\W215A.dgn PLOT DATE : 11-JAN 2024 3:48 PLOT BY : dotc4c PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42



W21-5B

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Message Series - C



W21-5BL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		2 1/4	5/8	3/4	5	2 1/4	7 3/8	14 1/4	10 1/4	10 1/8	8 7/8	6 1/4														9.0
2S	48		3	3/4	1	7	3	9 5/8	19 1/2	14 3/8	14 1/4	12 1/2	8 1/2														16.0
2M	48		3	3/4	1	7	3	9 5/8	19 1/2	14 3/8	14 1/4	12 1/2	8 1/2														16.0
3	48		3	3/4	1	7	3	9 5/8	19 1/2	14 3/8	14 1/4	12 1/2	8 1/2														16.0
4	48		3	3/4	1	7	3	9 5/8	19 1/2	14 3/8	14 1/4	12 1/2	8 1/2														16.0
5	48		3	3/4	1	7	3	9 5/8	19 1/2	14 3/8	14 1/4	12 1/2	8 1/2														16.0

STANDARD SIGN
W21-5B

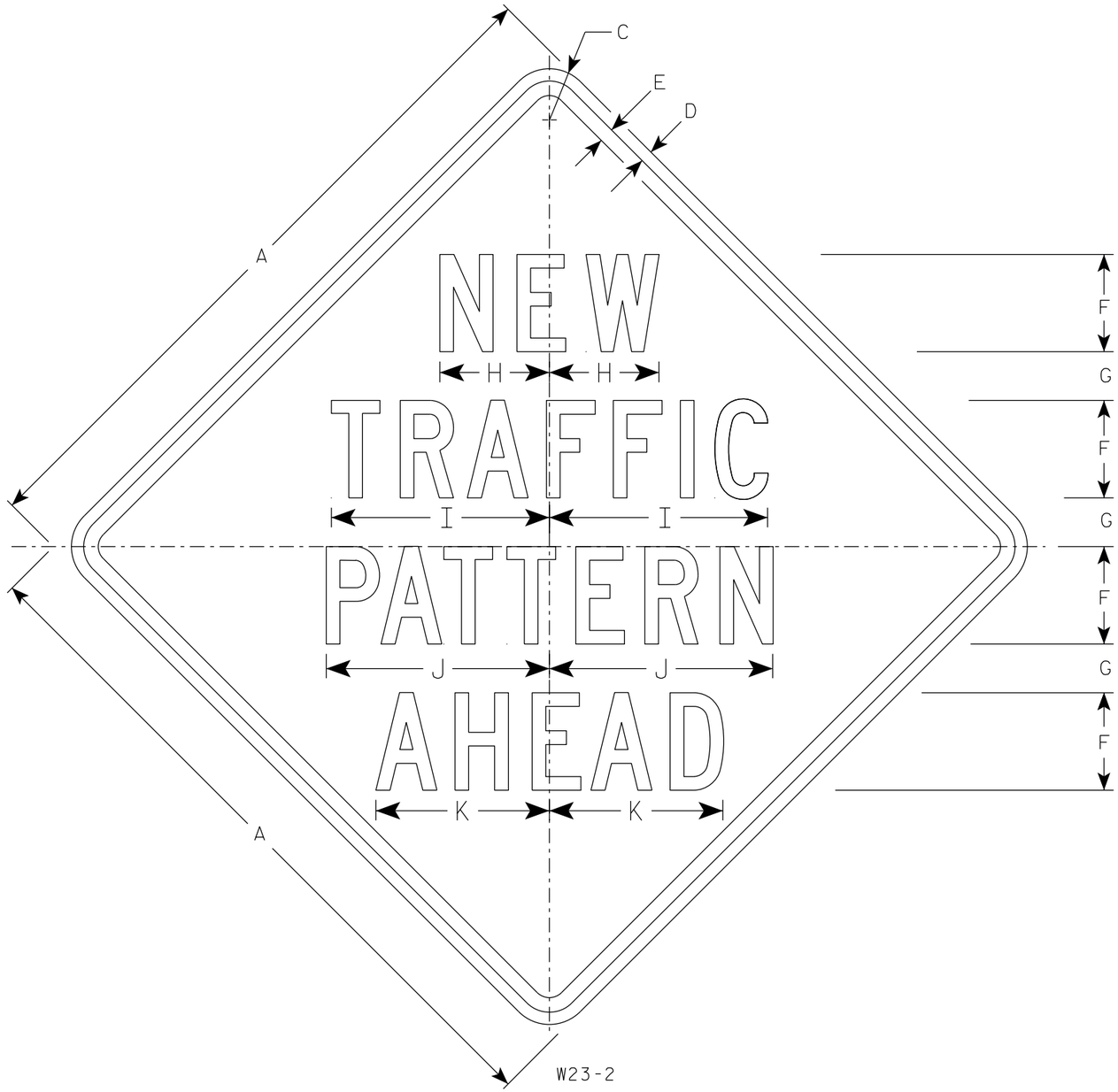
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 1/16/2024 PLATE NO. W21-5B.4

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 463 E

7



NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Yellow
   Message - Black
3. Message Series - C

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	36		2 1/4	5/8	3/4	5	2 1/2	5 5/8	11 1/4	11 1/2	8 7/8																9.0
2M	36		2 1/4	5/8	3/4	5	2 1/2	5 5/8	11 1/4	11 1/2	8 7/8																9.0
3																											
4																											
5																											

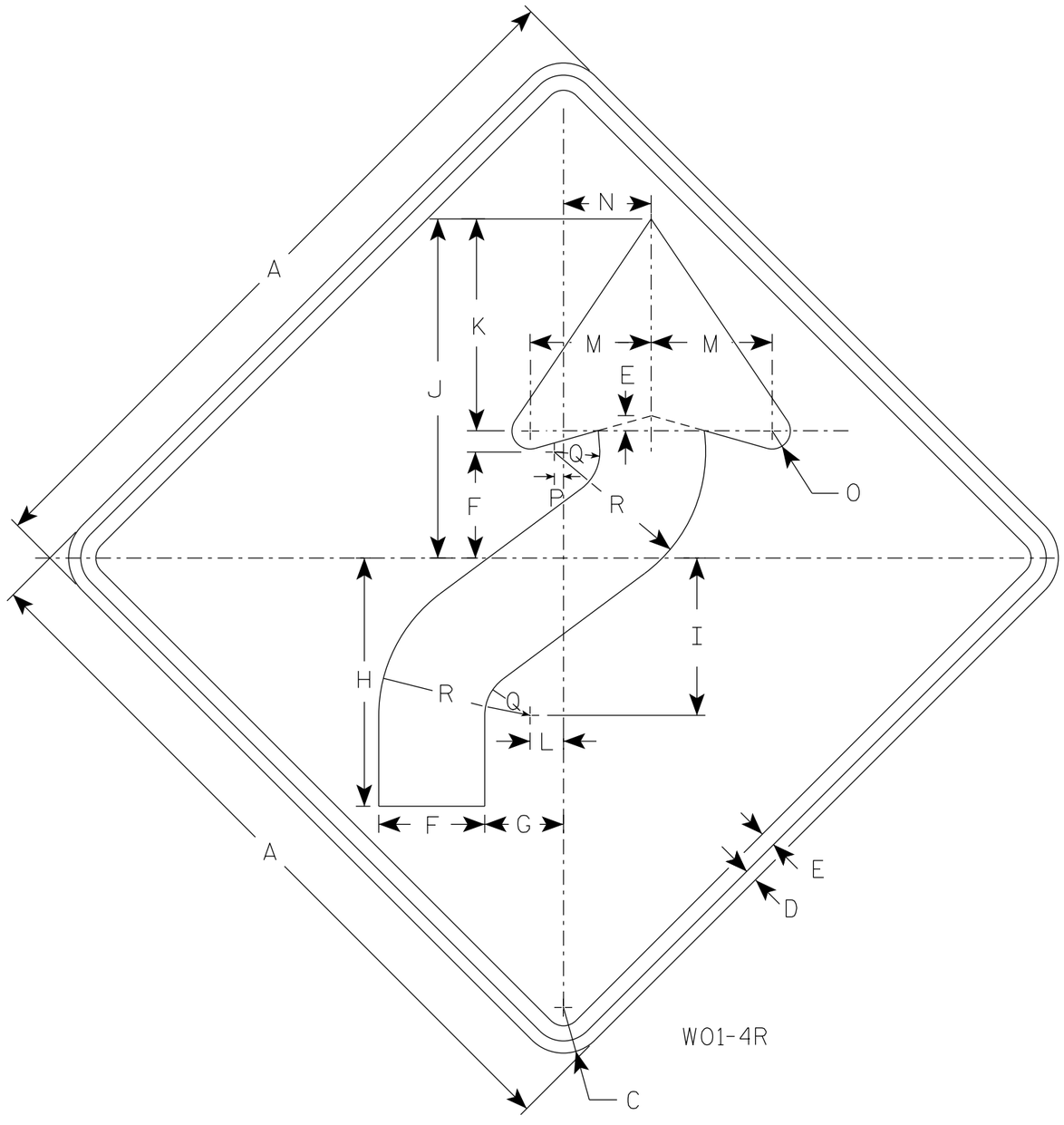
STANDARD SIGN
W23-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
For State Traffic Engineer

DATE 1/22/2024 PLATE NO. W23-2.2

PROJECT NO: | HWY: | COUNTY: | SHEET NO: E



WO1-4R

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. WO1-4L is the same as WO1-4R except the arrow is reversed along the vertical centerline.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		2 1/4	5/8	3/4	5 1/4	4	12 3/8	7 7/8	16 7/8	10 1/2	1 5/8	6	4 1/2	1	1/2	2 1/4	7 1/2									9.0
2S	48		3	3/4	1	7	5 1/4	16 1/2	10 1/2	22 1/2	14	2 1/4	8	6	1 1/4	5/8	3	10									16.0
2M	48		3	3/4	1	7	5 1/4	16 1/2	10 1/2	22 1/2	14	2 1/4	8	6	1 1/4	5/8	3	10									16.0
3	48		3	3/4	1	7	5 1/4	16 1/2	10 1/2	22 1/2	14	2 1/4	8	6	1 1/4	5/8	3	10									16.0
4	48		3	3/4	1	7	5 1/4	16 1/2	10 1/2	22 1/2	14	2 1/4	8	6	1 1/4	5/8	3	10									16.0
5	48		3	3/4	1	7	5 1/4	16 1/2	10 1/2	22 1/2	14	2 1/4	8	6	1 1/4	5/8	3	10									16.0

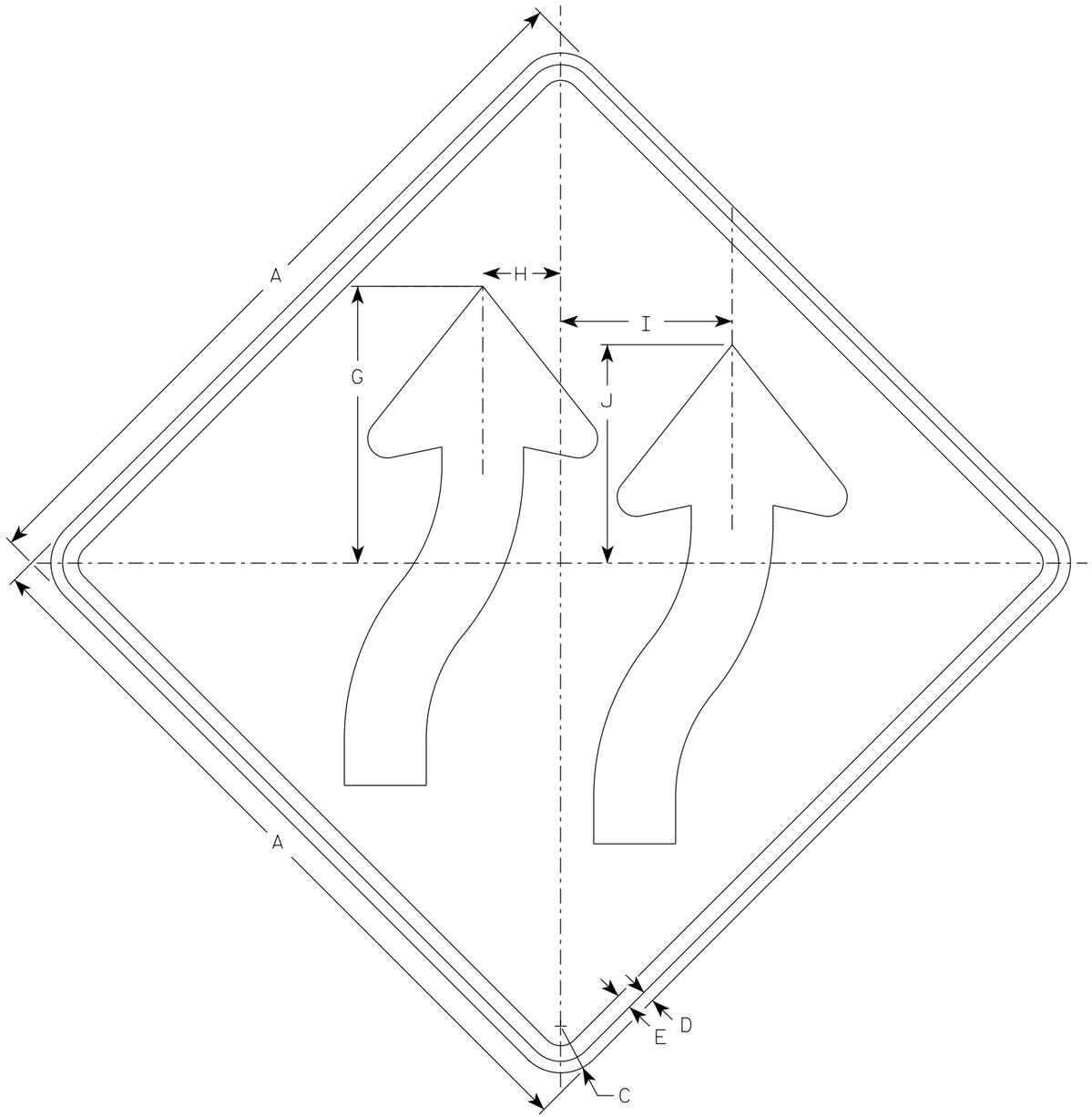
STANDARD SIGN
WO1-4

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
For State Traffic Engineer

DATE 1/24/2024 PLATE NO. WO1-4.2

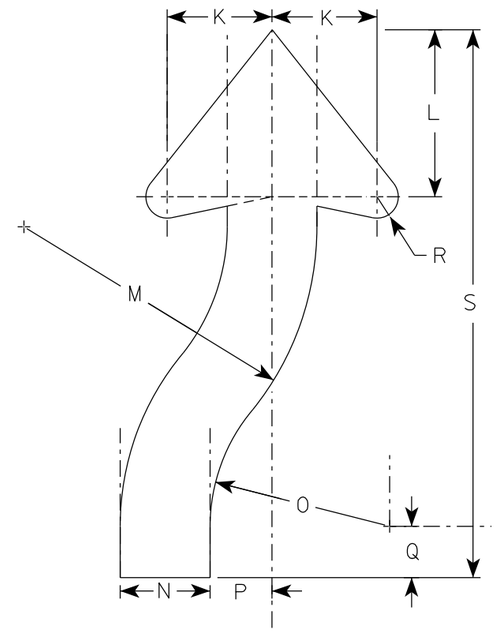
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 465 | E



WO1-4BR

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. W01-4BL is the same as W014-BR exept arrows are reversed along the vertical centerline



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		2 1/4	5/8	3/4		13 3/8	3 3/4	8 1/4	10 1/2	4 5/8	7 3/8	12 7/8	3 7/8	7 7/8	2 3/4	2 1/4	7/8	24								9.0
2S	48		3	3/4	1		17 3/4	5	11	14	6 1/8	9 3/4	17 1/8	5 1/4	10 1/2	3 5/8	3	1 1/4	32								16.0
2M	48		3	3/4	1		17 3/4	5	11	14	6 1/8	9 3/4	17 1/8	5 1/4	10 1/2	3 5/8	3	1 1/4	32								16.0
3	48		3	3/4	1		17 3/4	5	11	14	6 1/8	9 3/4	17 1/8	5 1/4	10 1/2	3 5/8	3	1 1/4	32								16.0
4	48		3	3/4	1		17 3/4	5	11	14	6 1/8	9 3/4	17 1/8	5 1/4	10 1/2	3 5/8	3	1 1/4	32								16.0
5	48		3	3/4	1		17 3/4	5	11	14	6 1/8	9 3/4	17 1/8	5 1/4	10 1/2	3 5/8	3	1 1/4	32								16.0

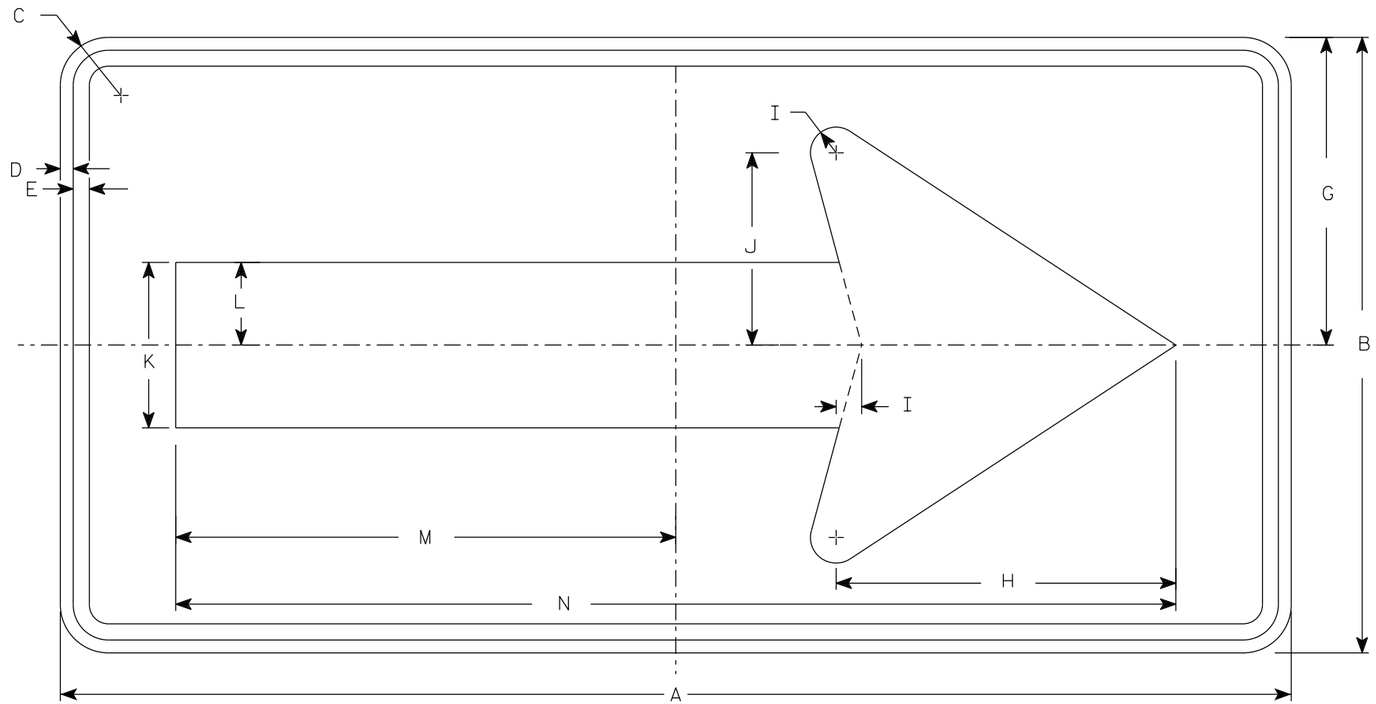
STANDARD SIGN
W01-4B

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 1/24/2024 PLATE NO. W01-4B.2

PROJECT NO:	HWY:	COUNTY:		SHEET NO: E



WO1-6

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	48	24	1 7/8	1/2	5/8		12	13 1/4	1	7 1/2	6 1/2	3 1/4	19 1/2	39													8.0
2M	48	24	1 7/8	1/2	5/8		12	13 1/4	1	7 1/2	6 1/2	3 1/4	19 1/2	39													8.0
3	60	30	1 7/8	1/2	5/8		15	16 1/4	1 1/4	9 1/4	8	4	24 3/8	48 3/4													12.5
4	60	30	1 7/8	1/2	5/8		15	16 1/4	1 1/4	9 1/4	8	4	24 3/8	48 3/4													12.5
5	60	30	1 7/8	1/2	5/8		15	16 1/4	1 1/4	9 1/4	8	4	24 3/8	48 3/4													12.5

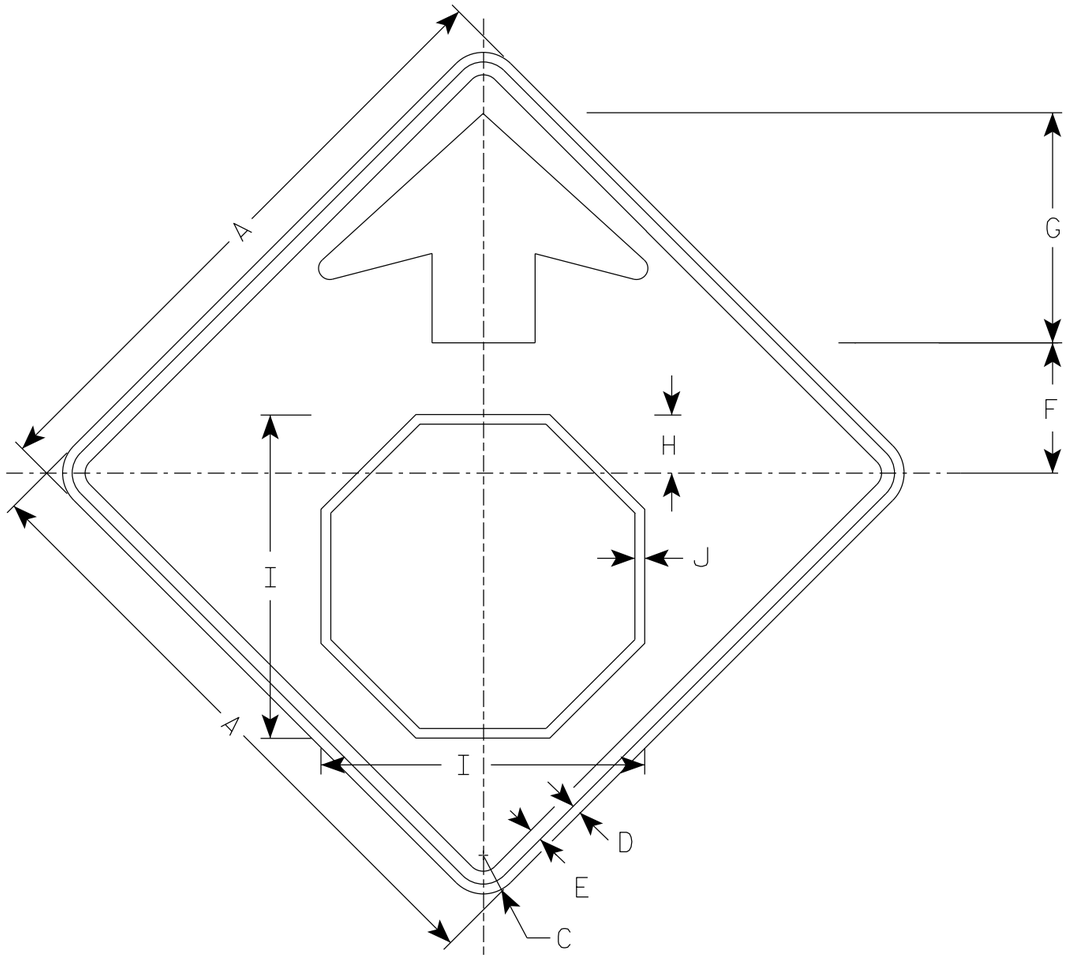
STANDARD SIGN
WO1-6

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 1/24/2024 PLATE NO. WO1-6.2

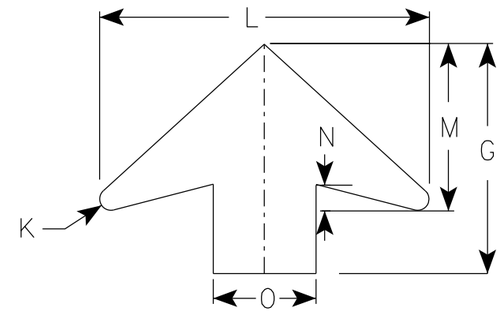
PROJECT NO: | HWY: | COUNTY: | SHEET NO: E



W03-1

NOTES

1. All Signs Type II - Type F Reflective
2. Color:
   Background - ORANGE
   Arrow & Border - BLACK
   Stop Symbol - WHITE BORDER ON RED BACKGROUND



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		2 1/4	5/8	3/4	7 1/2	13 1/2	3 1/2	19	5/8	5/8	19 1/4	9 3/4	1 5/8	6												9.0
2S	48		3	3/4	1	10	17 7/8	4 1/2	25 1/8	3/4	7/8	25 5/8	13	2	8												16.0
2M	48		3	3/4	1	10	17 7/8	4 1/2	25 1/8	3/4	7/8	25 5/8	13	2	8												16.0
3	48		3	3/4	1	10	17 7/8	4 1/2	25 1/8	3/4	7/8	25 5/8	13	2	8												16.0
4	48		3	3/4	1	10	17 7/8	4 1/2	25 1/8	3/4	7/8	25 5/8	13	2	8												16.0
5	48		3	3/4	1	10	17 7/8	4 1/2	25 1/8	3/4	7/8	25 5/8	13	2	8												16.0

STANDARD SIGN
W03-1

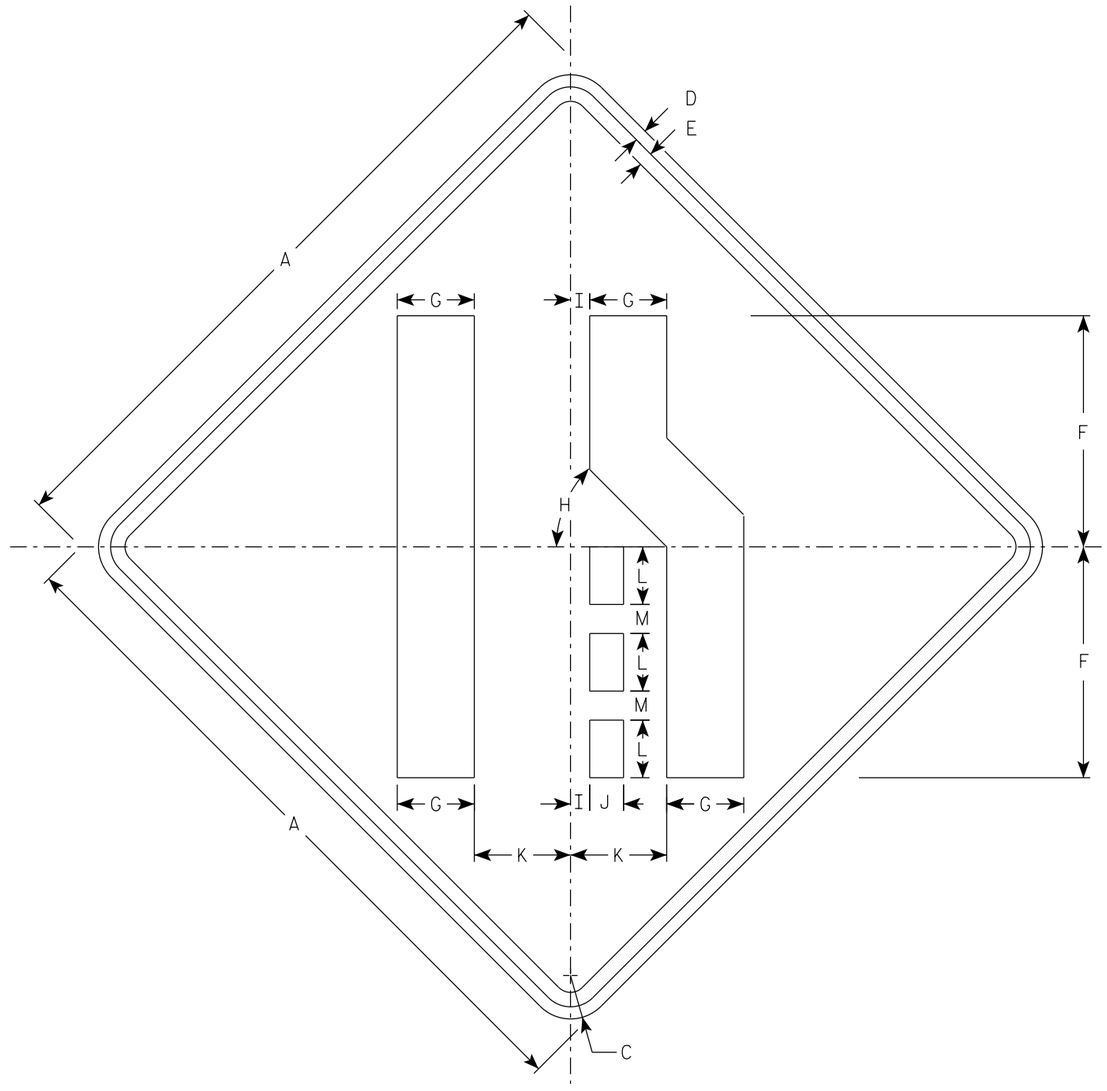
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
For State Traffic Engineer

DATE 1/24/2024 PLATE NO. W03-1.2

PROJECT NO:

SHEET NO: 468 E



W04-2R

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. W04-2L is the same as W04-2R except the symbol is reversed along the vertical centerline.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		2 1/4	5/8	3/4	12	4	45°	1	1 3/4	5	3	1 1/2														9.0
2S	48		3	3/4	1	16	5 3/8	45°	1 1/4	2 3/8	6 3/4	4	2														16.0
2M	48		3	3/4	1	16	5 3/8	45°	1 1/4	2 3/8	6 3/4	4	2														16.0
3	48		3	3/4	1	16	5 3/8	45°	1 1/4	2 3/8	6 3/4	4	2														16.0
4	48		3	3/4	1	16	5 3/8	45°	1 1/4	2 3/8	6 3/4	4	2														16.0
5	48		3	3/4	1	16	5 3/8	45°	1 1/4	2 3/8	6 3/4	4	2														16.0

STANDARD SIGN
W04-2

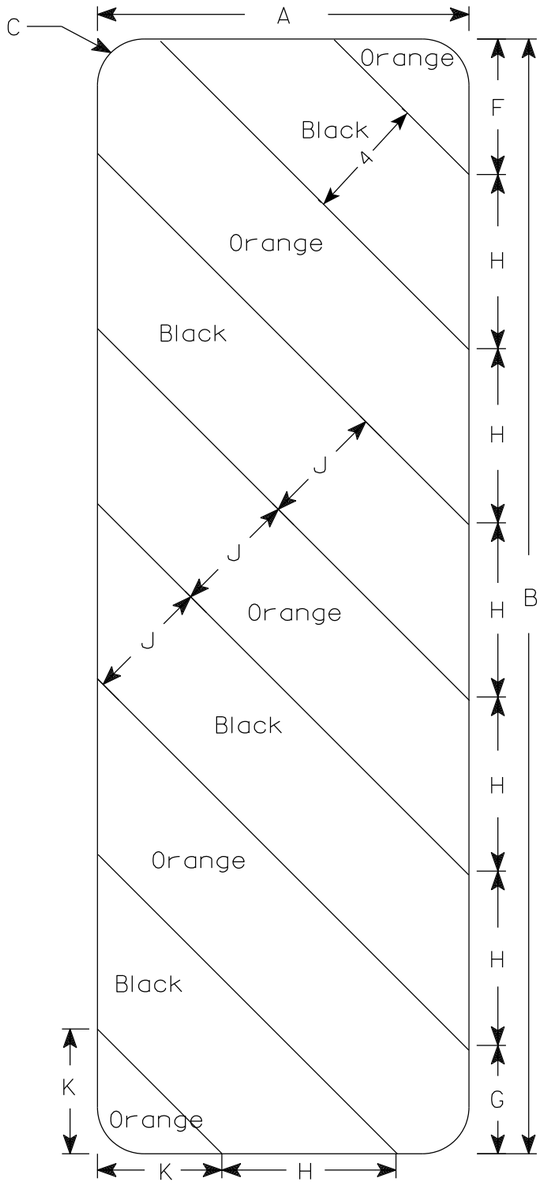
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

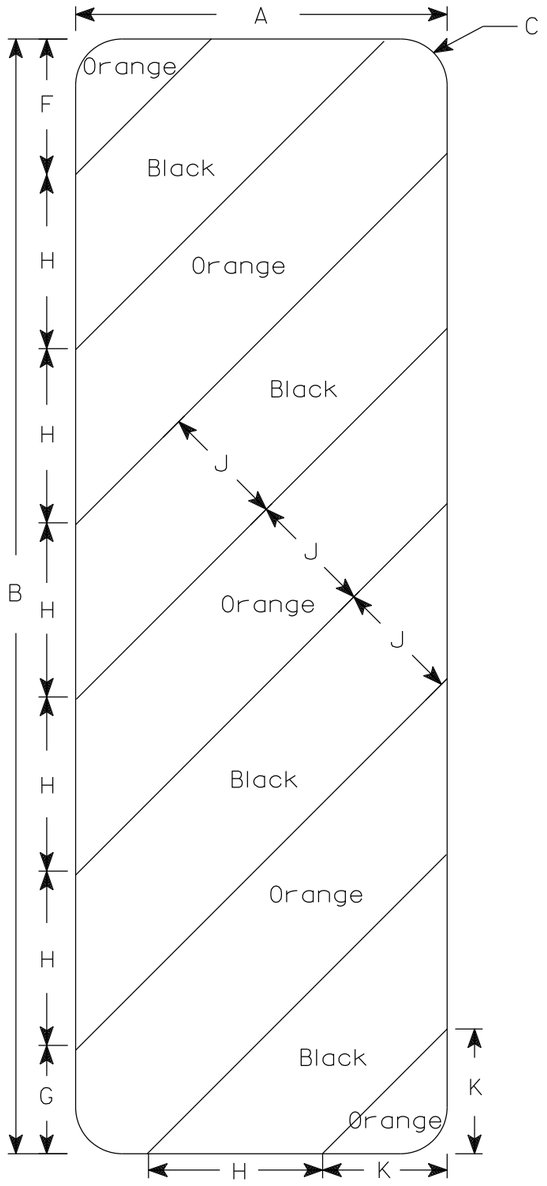
DATE 1/25/2024 PLATE NO. W04-2.2

PROJECT NO:

SHEET NO: 469 E



W05-52L



W05-52R

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Orange
   Message - Black
4. Alternate colors of stripes as shown.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	12	36	1 ½			4 ⅜	3 ½	5 ⅝	45°	4	4																3.0
2M	12	36	1 ½			4 ⅜	3 ½	5 ⅝	45°	4	4																3.0
3	18	54	1 ½			6	5 ½	8 ½	45°	6	6 9/16																6.75
4																											
5																											

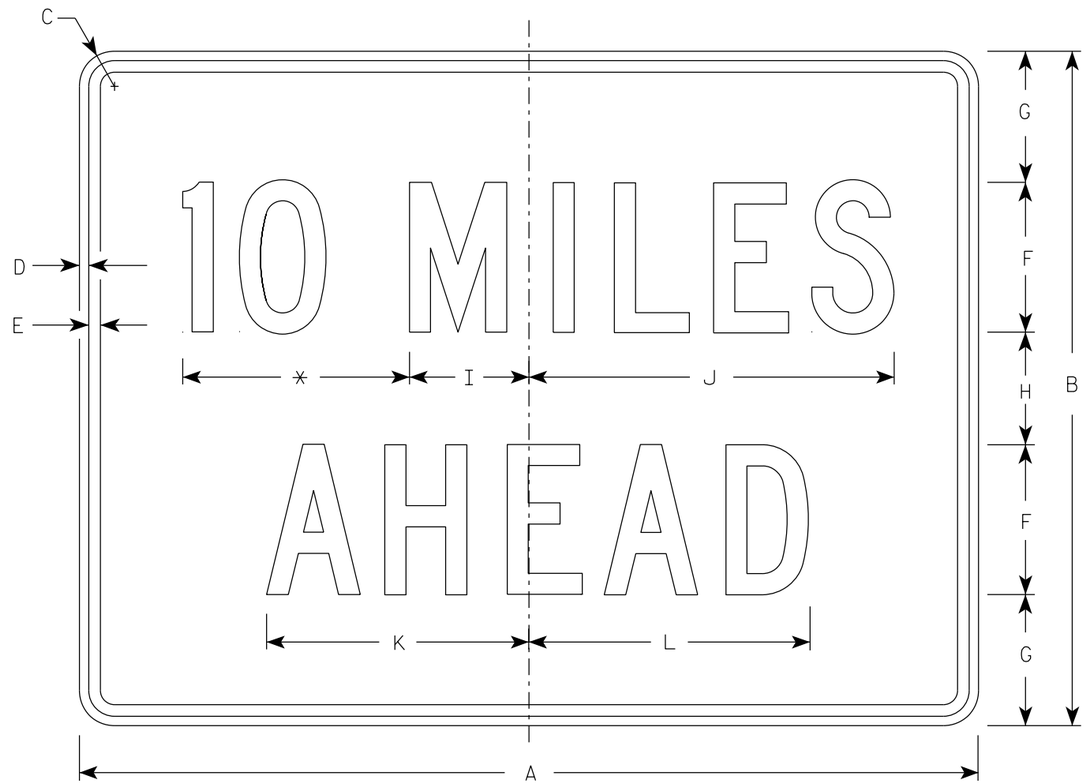
STANDARD SIGN
W05-52L & W05-52R

WISCONSIN DEPT OF TRANSPORTATION

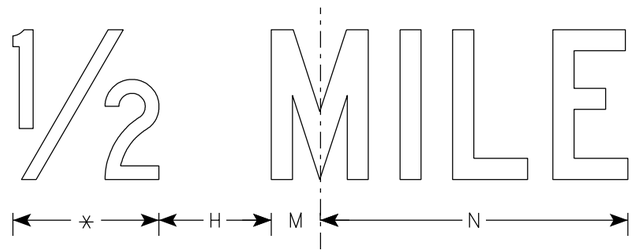
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/13/2024 PLATE NO. W05-52.2

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 470	E



W057-52



NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Substitute appropriate numerals to the nearest quarter mile and optically adjust spacing to achieve proper balance.

* See note 5

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36	24	1 1/2	3/8	1/2	6	4 1/2	3	4 3/4	14 5/8	10 5/8	11 3/8	2	12													6.0
2S	48	36	2 1/4	1/2	5/8	8	7	6	6 3/8	19 1/2	14	15	2 3/4	16 3/8													12.0
2M	48	36	2 1/4	1/2	5/8	8	7	6	6 3/8	19 1/2	14	15	2 3/4	16 3/8													12.0
3	48	36	2 1/4	1/2	5/8	8	7	6	6 3/8	19 1/2	14	15	2 3/4	16 3/8													12.0
4	48	36	2 1/4	1/2	5/8	8	7	6	6 3/8	19 1/2	14	15	2 3/4	16 3/8													12.0
5	48	36	2 1/4	1/2	5/8	8	7	6	6 3/8	19 1/2	14	15	2 3/4	16 3/8													12.0

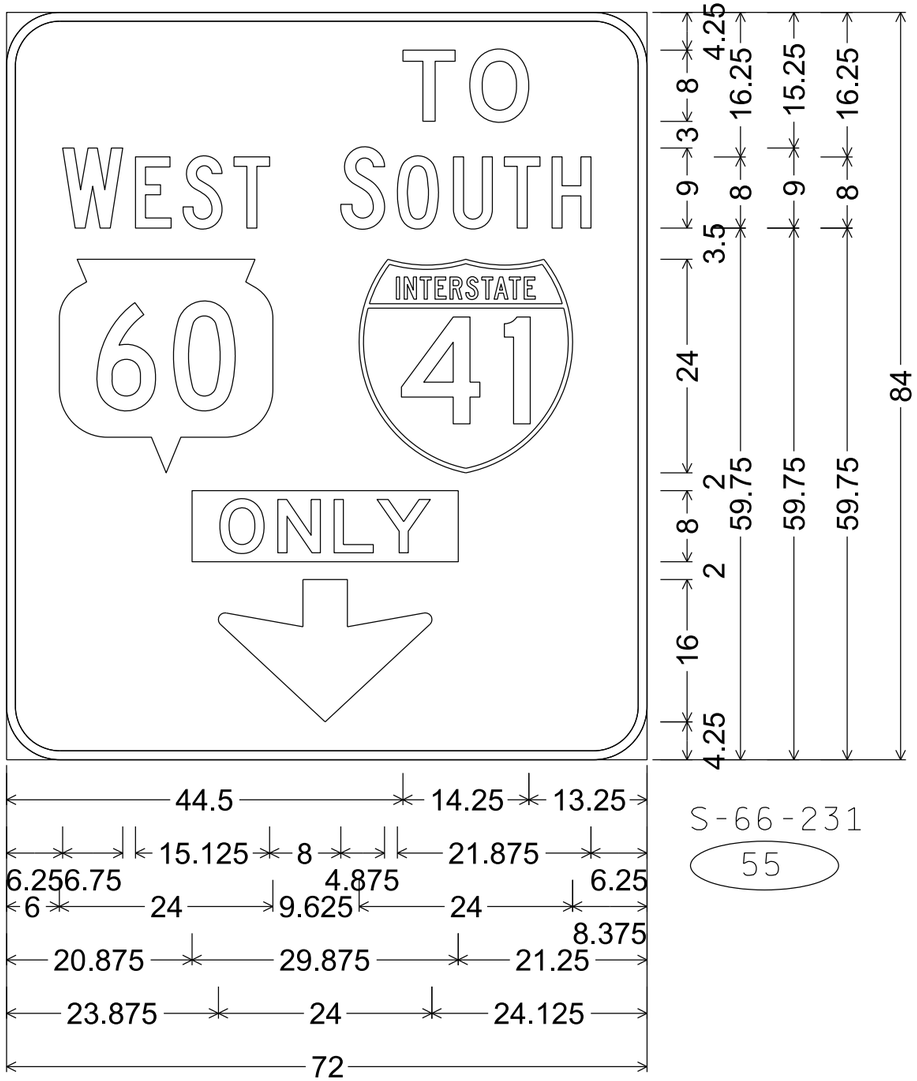
STANDARD SIGN
W057-52

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/1/2024 PLATE NO. W057-52.3

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 471 | E



S-66-231

55

D16-1; 6.000" Radius, 1.000" Border,
"TO", E; "WEST", C; "SOUTH", C

NOTES

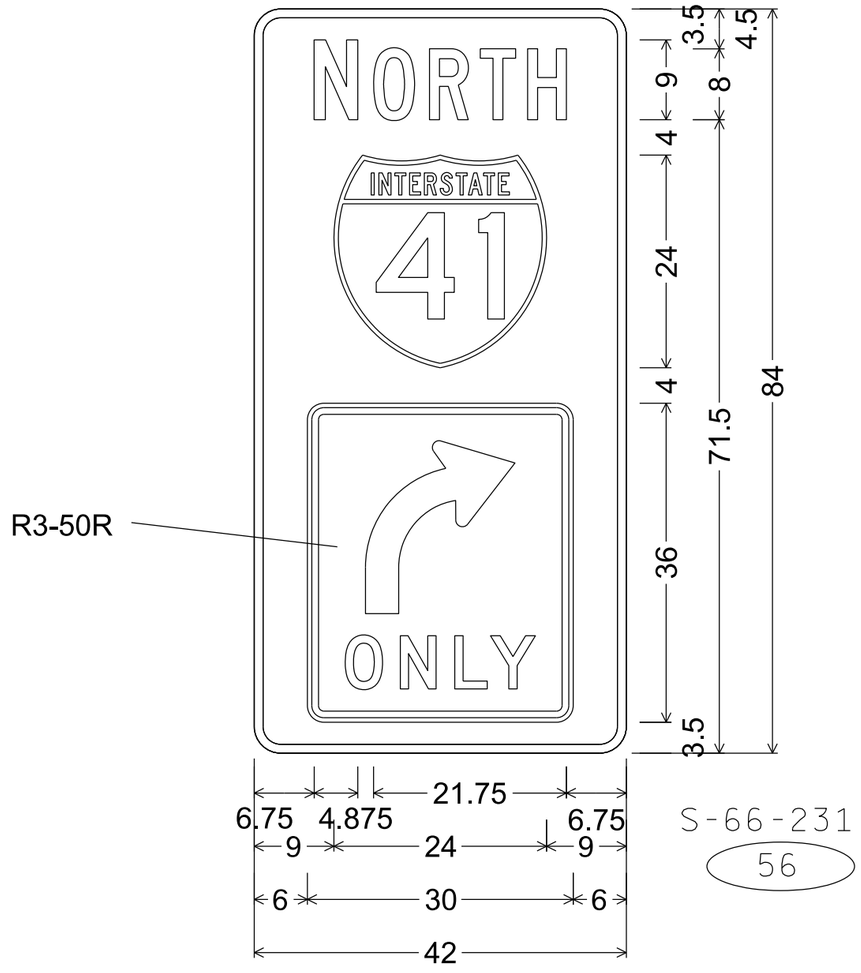
1. Sign is Type I - Type SH Reflective
2. Color:
   Background - Green
   Message - White
3. Message Series - E except as noted
4. ONLY Plaque on Yellow Type F Reflective Sheeting with Black Non-Reflective message

7

7

NOTES

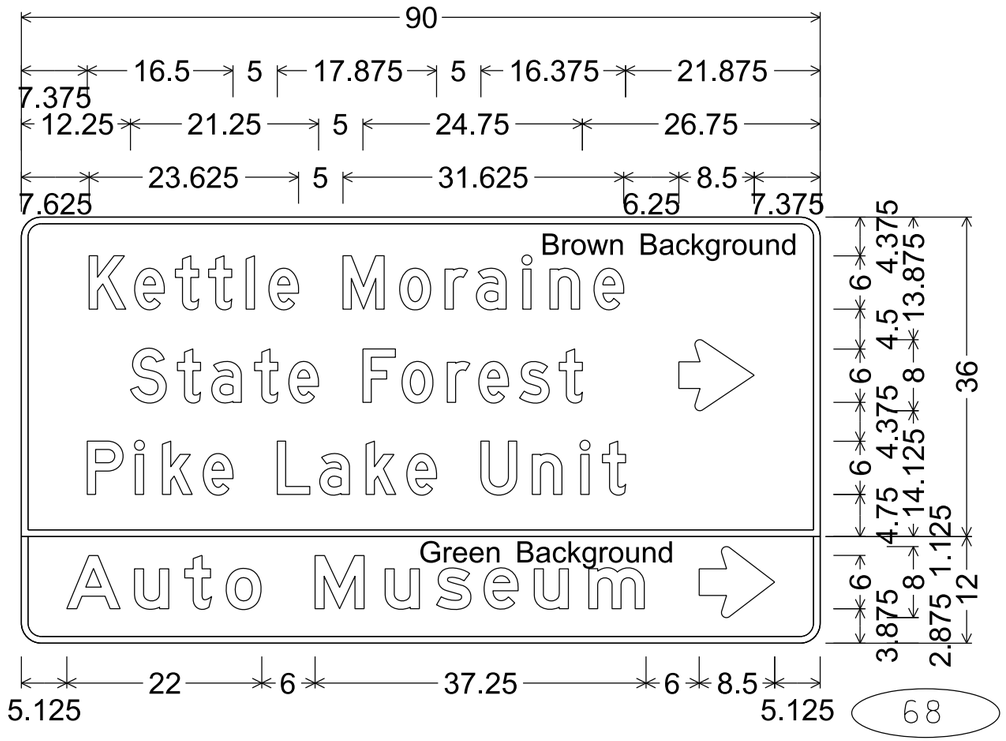
1. Sign is Type II - Type SH Reflective
2. Color:
   Background - Green
   Message - White
3. Message Series - C



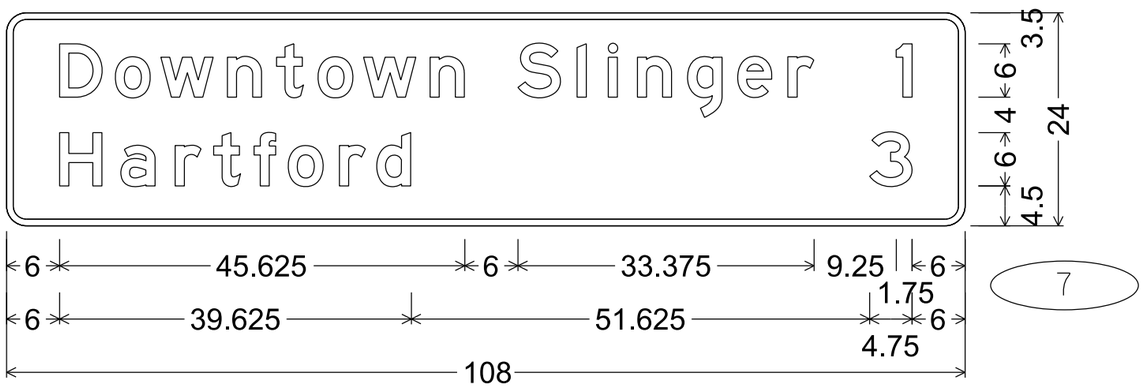
S-66-231

56

D15-1; 3.000" Radius, 1.000" Border



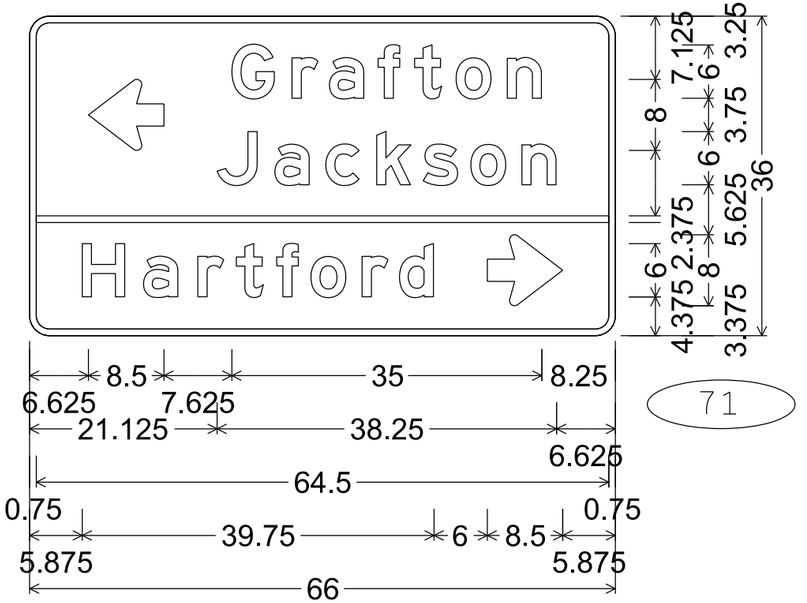
D1-4; 2.250" Radius, 0.750" Border, White on Brown;
"Kettle", D; "Moraine", D; "State", D; "Forest", D;
"Pike", D; "Lake", D; "Unit", D;
2.250" Radius, 0.750" Border, White on Green;
"Auto", E; "Museum", E



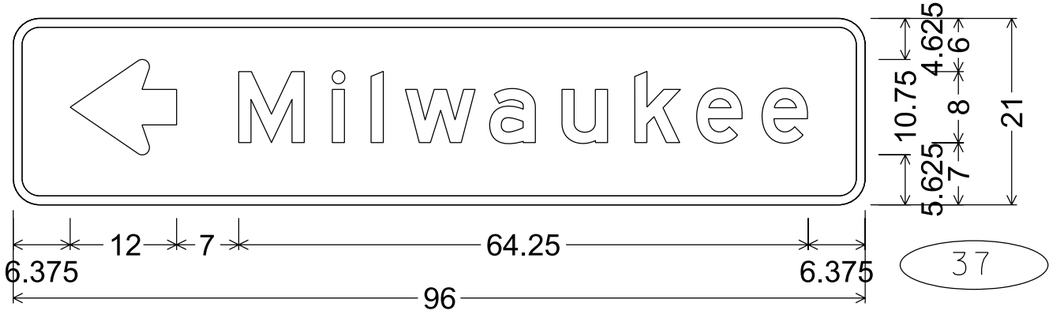
D2-2; 2.250" Radius, 0.750" Border

NOTES

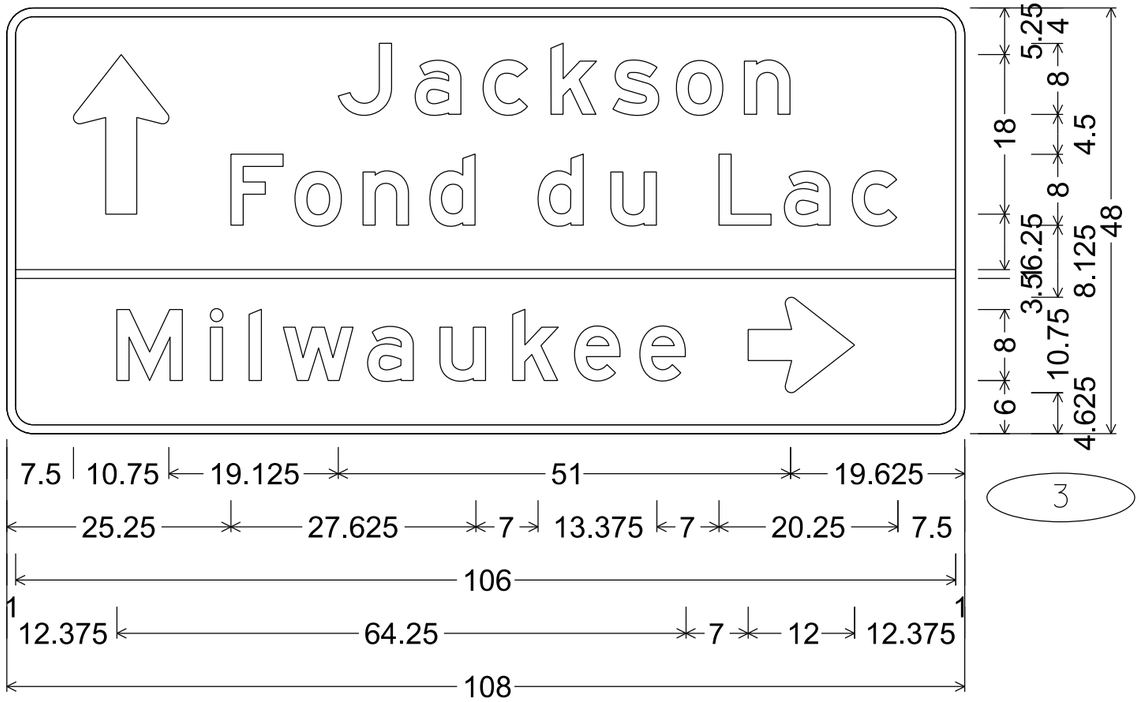
1. Signs are Type II - Type H Reflective
2. Color:
   Background - Green except as noted
   Message - White
3. Message Series - E except as noted



D1-3; 2.250" Radius, 0.750" Border



D1-1; 3.000" Radius, 1.000" Border

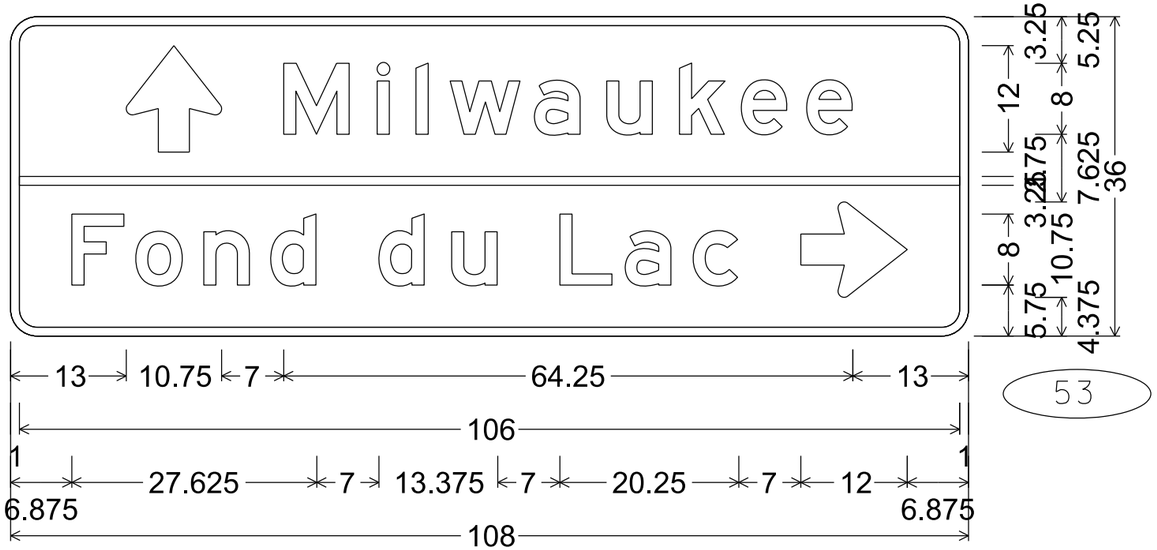


3

D1-3; 3.000" Radius, 1.000" Border

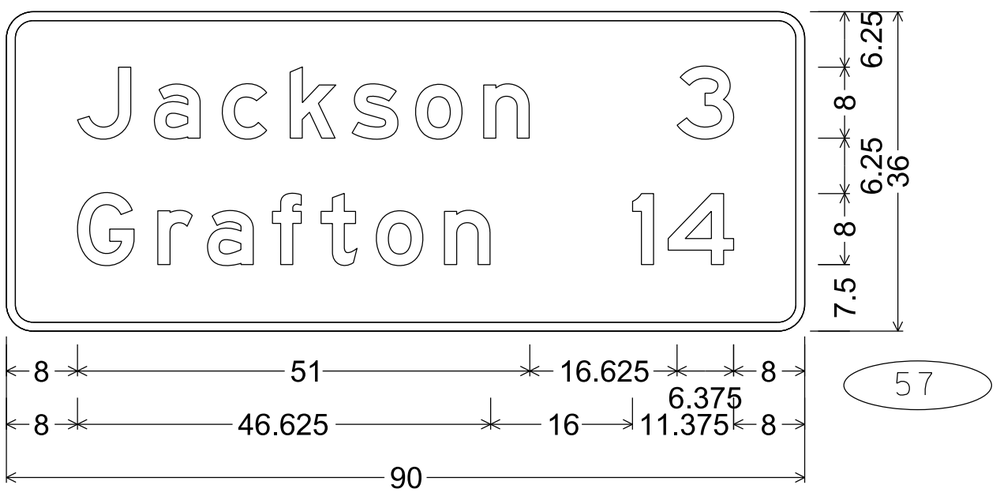
NOTES

1. Signs are Type II - Type H Reflective
2. Color:
   Background - Green
   Message - White
3. Message Series - E



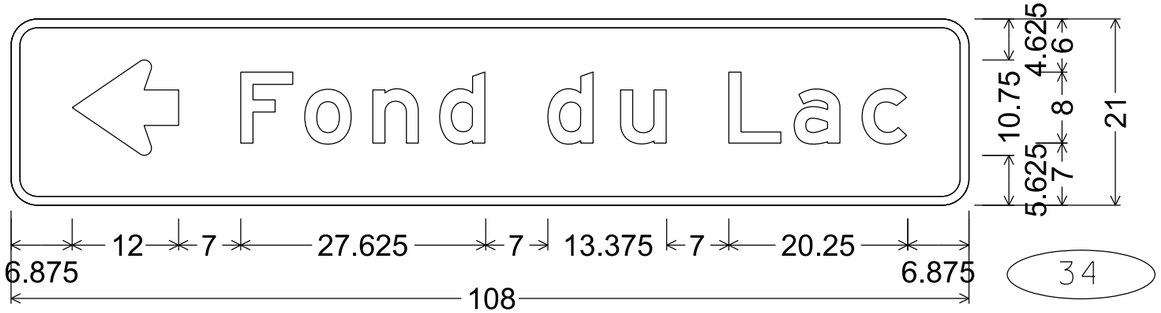
53

D1-2; 3.000" Radius, 1.000" Border



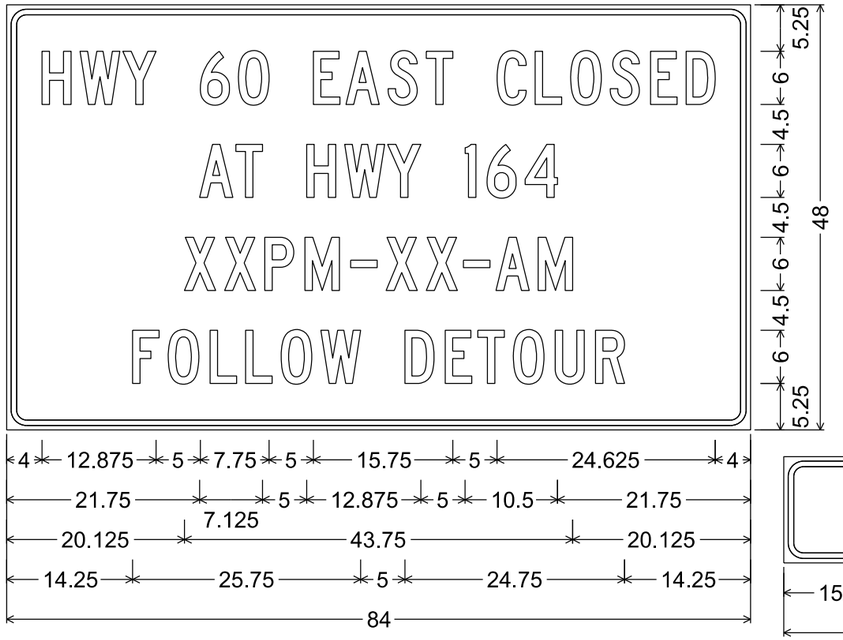
57

D2-2; 3.000" Radius, 1.000" Border

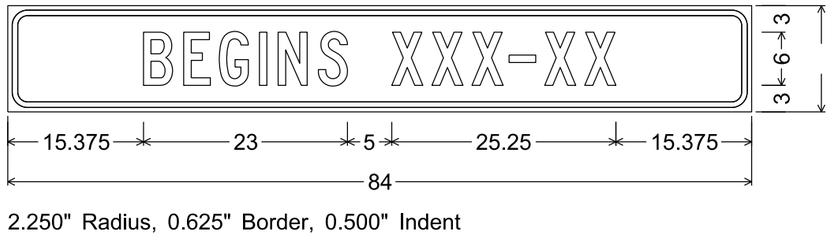


34

D1-1; 3.000" Radius, 1.000" Border



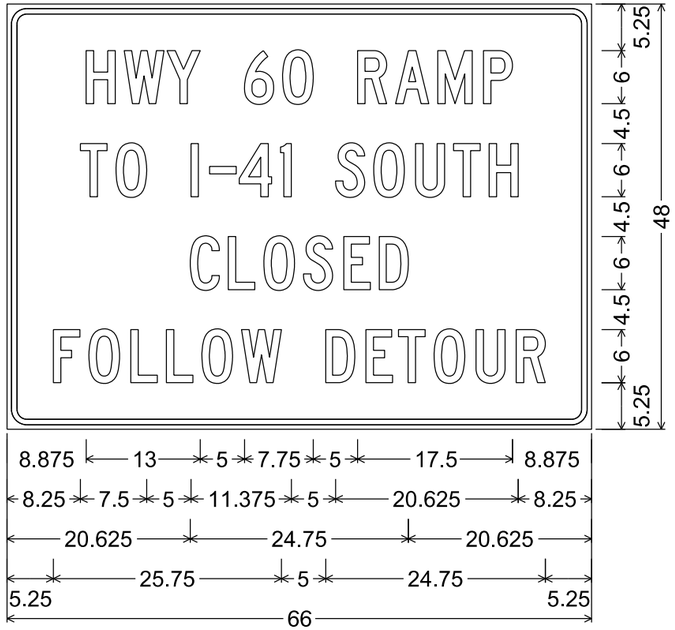
2.250" Radius, 0.625" Border, 0.500" Indent



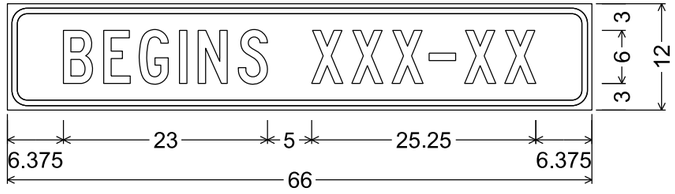
2.250" Radius, 0.625" Border, 0.500" Indent

NOTES

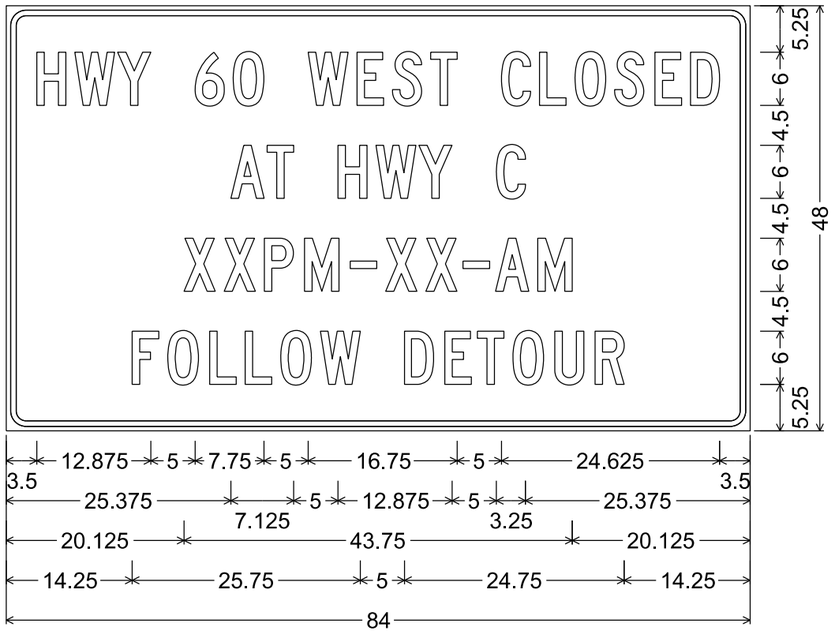
1. Signs are Type II - Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Message Series - C



2.250" Radius, 0.625" Border, 0.500" Indent



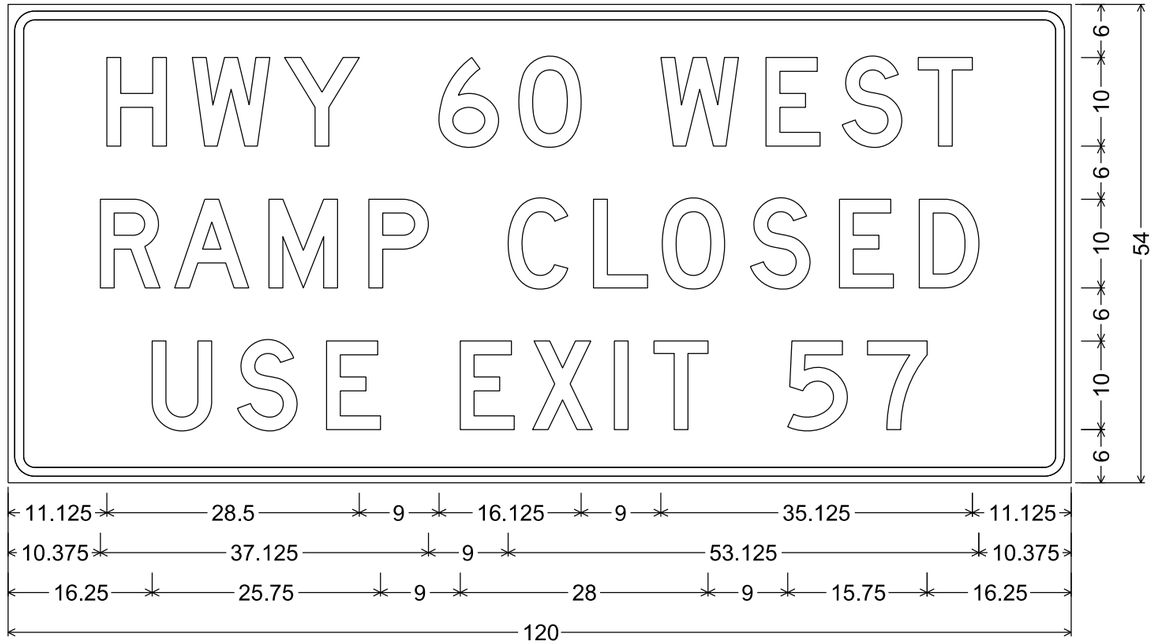
2.250" Radius, 0.625" Border, 0.500" Indent



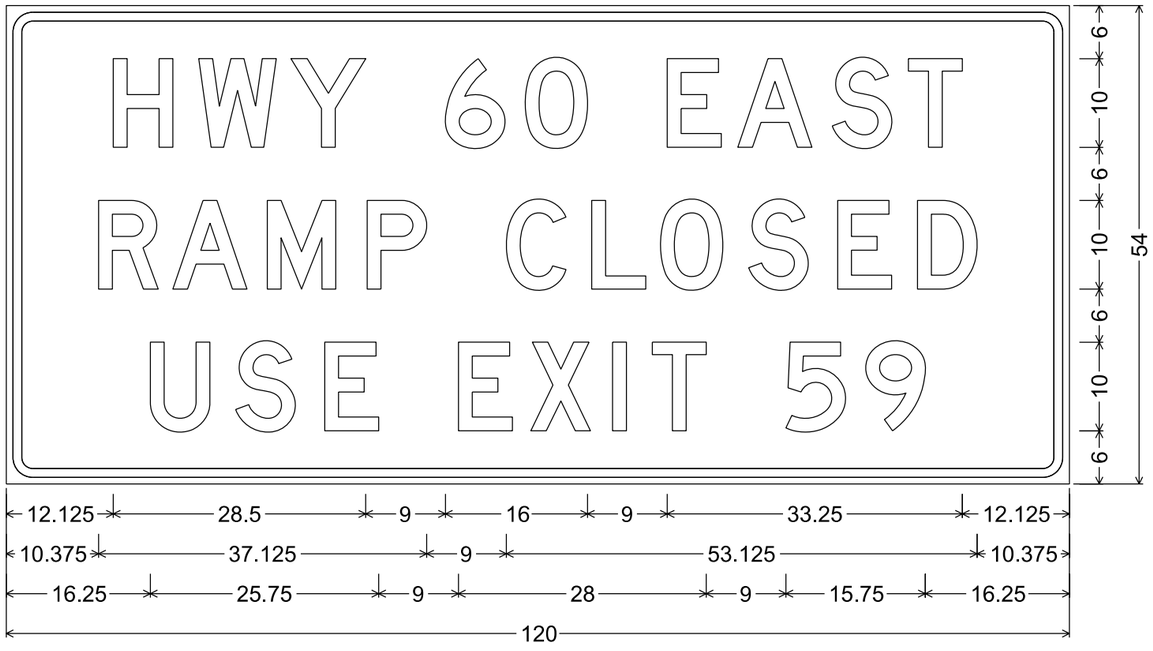
2.250" Radius, 0.625" Border, 0.500" Indent

7

7



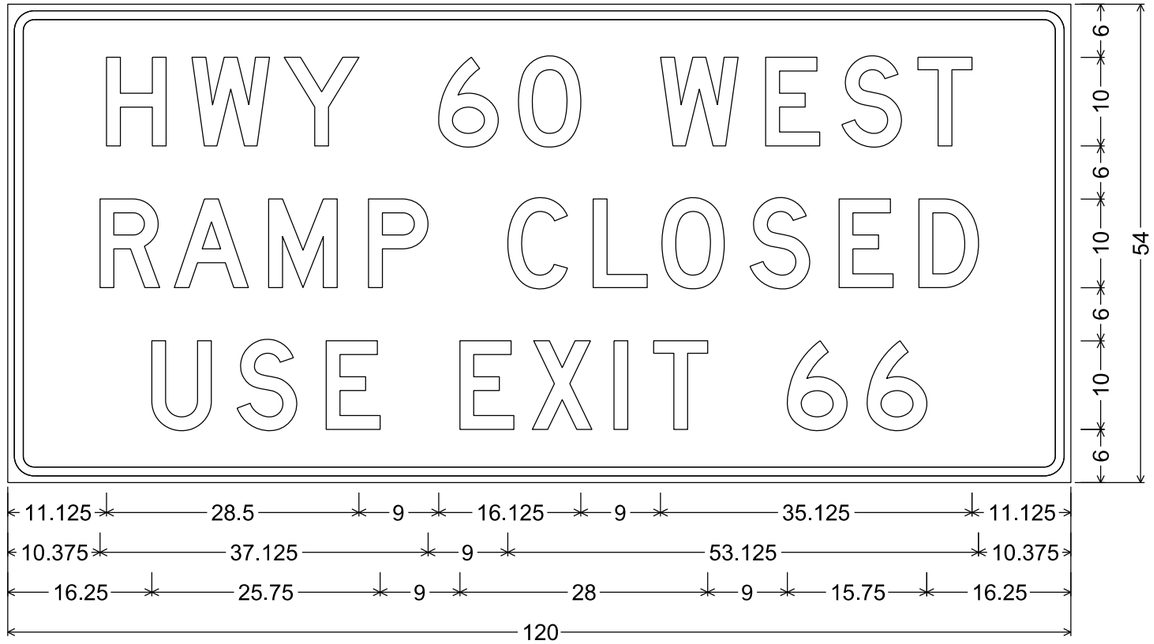
3.000" Radius, 1.000" Border, 0.750" Indent



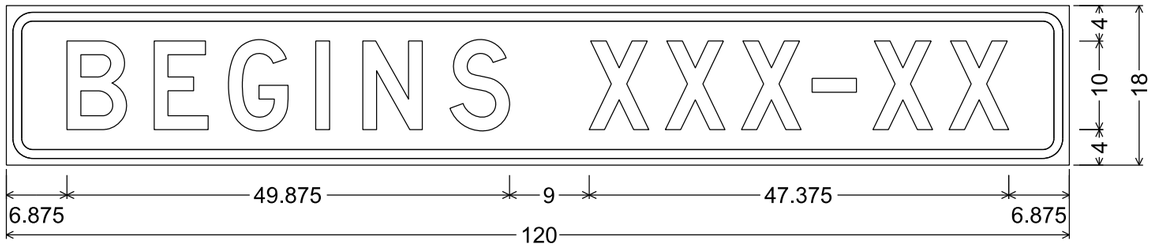
3.000" Radius, 1.000" Border, 0.750" Indent

NOTES

1. Signs are Type II - Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Message Series - D



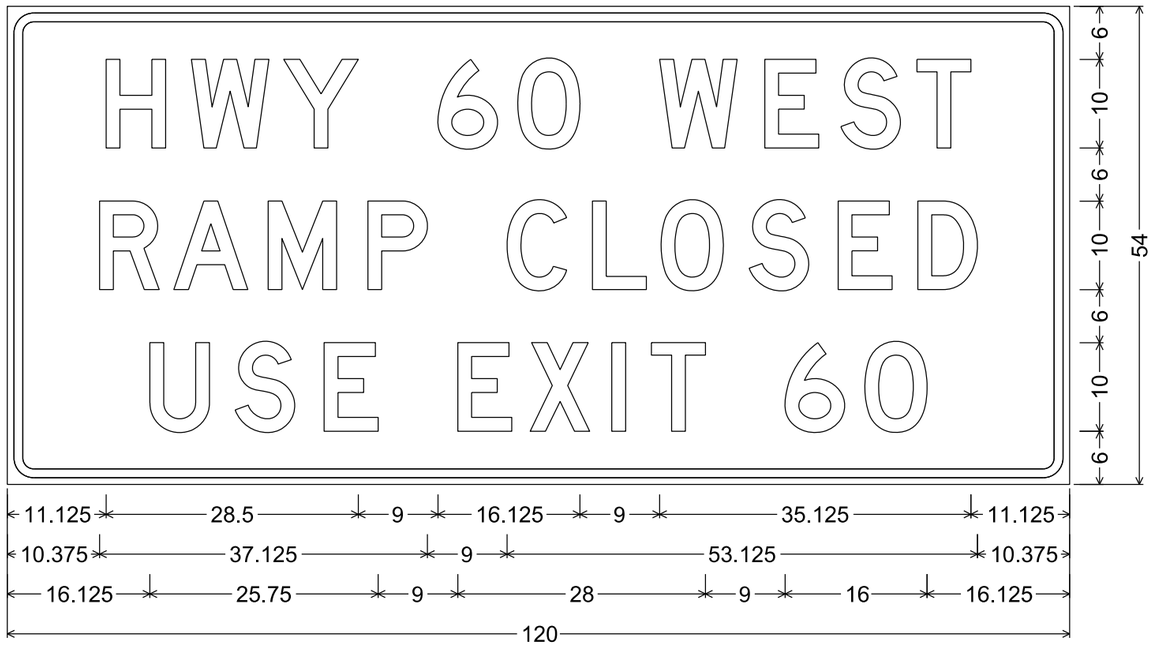
3.000" Radius, 1.000" Border, 0.750" Indent



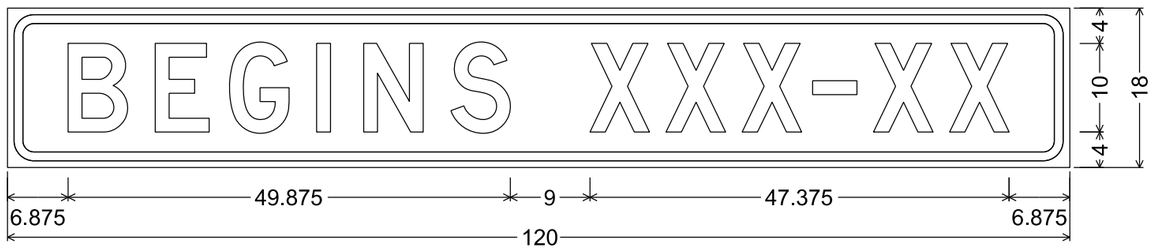
3.000" Radius, 1.000" Border, 0.750" Indent

NOTES

1. Signs are Type II - Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Message Series - D



3.000" Radius, 1.000" Border, 0.750" Indent, Black on Fluorescent orange;



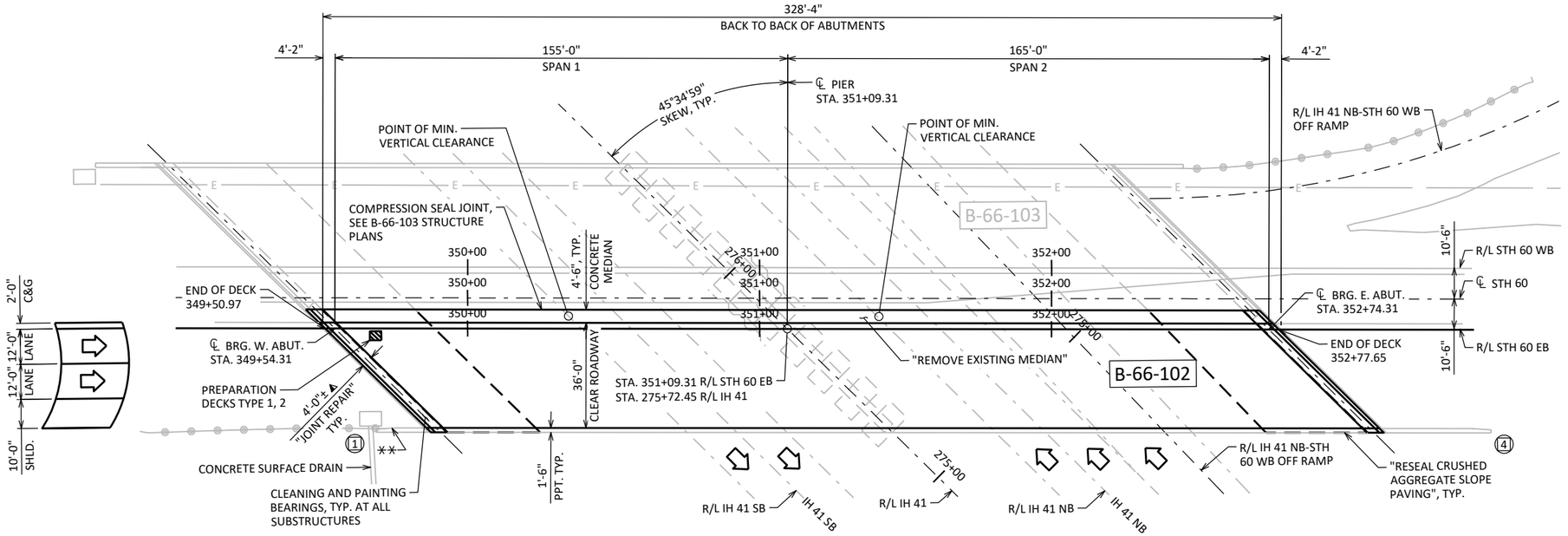
3.000" Radius, 1.000" Border, 0.750" Indent

7

7

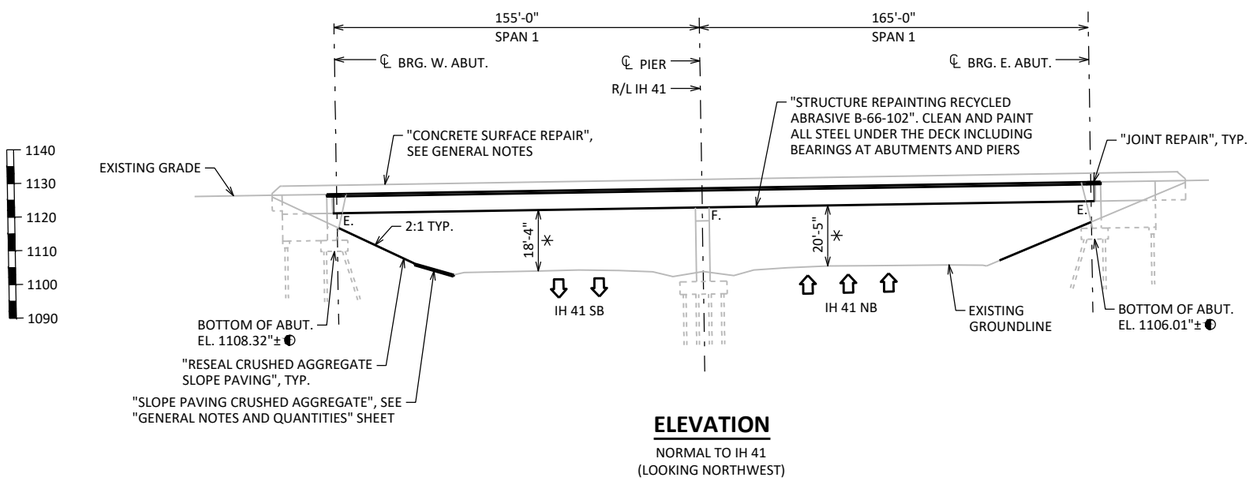
STATE PROJECT NUMBER

2310-09-71



PLAN

2-SPAN CONTINUOUS STEEL GIRDER - MEDIAN REPLACEMENT, PAINTING, AND JOINT REPLACEMENT



ELEVATION

NORMAL TO IH 41
(LOOKING NORTHWEST)

LIST OF DRAWINGS:

1. GENERAL PLAN & ELEVATION
2. GENERAL NOTES & QUANTITIES
3. CROSS SECTION
4. MEDIAN REPLACEMENT
5. BILL OF BARS: MEDIAN
6. WEST JOINT REMOVAL DETAILS (1 OF 2)
7. WEST JOINT REMOVAL DETAILS (2 OF 2)
8. WEST JOINT REPLACEMENT DETAILS (1 OF 2)
9. WEST JOINT REPLACEMENT DETAILS (2 OF 2)
10. BILL OF BARS: JOINTS
11. STRIP SEAL EXPANSION JOINT DETAILS
12. STRIP SEAL COVER PLATE DETAILS: MEDIAN
13. STRIP SEAL COVER PLATE DETAILS: PARAPET
14. STAGE 1 & 2 CONSTRUCTION SECTIONS

BENCH MARKS

NO.	NORTHING (N)	EASTING (E)	DESCRIPTION	ELEV.
95981	148137.240	344143.463	BM DISK HWY 60 BRIDGE SW	1128.168
96234	148241.906	343889.750	CP FENO MONUMENT	1118.296

NOTE: FOR BENCHMARK LOCATIONS IN PLAN VIEW, SEE ROADWAY PLANS

DESIGN DATA

LIVE LOAD:

TAKEN FROM HSI, 4/29/2024
INVENTORY RATING: HS = 25
OPERATING RATING: HS = 41
WISCONSIN STANDARD PERMIT VEHICLE (WIS-SPV): 250 KIPS

MATERIAL PROPERTIES:

CONCRETE MASONRY:
- DECK AND MEDIAN — f'_c = 4,000 PSI
- DECK REPAIR — f'_c = 4,000 PSI
- ALL OTHER — f'_c = 3,500 PSI

BAR STEEL REINFORCEMENT:
- HIGH STRENGTH, GRADE 60 — f_y = 60,000 PSI

TRAFFIC DATA

FEATURE ON: STH 60

A.A.D.T = 22,630 (2026)
A.A.D.T = 23,830 (2046)
R.D.S. = 55 MPH

FEATURE UNDER: IH 41

A.A.D.T. = 40,615 (2019)
R.D.S. = 75 MPH

SCOPE OF WORK B-66-102

- MEDIAN REMOVAL AND REPLACEMENT
- PARTIAL JOINT REPLACEMENT
- REPAINT STEEL
- DECK PATCHING
- CONCRETE SURFACE REPAIRS
- DECK CRACK SEALING
- CLEANING AND PAINTING BEARINGS
- SLOPE PAVING WORK

LEGEND:

- ✳ VERTICAL CLEARANCE MEASURED WITH 2023 FIELD SURVEY.
- ✳✳ LOCATION OF NEW GUARDRAIL ATTACHMENT. EXISTING ANCHOR HOLES IN RAIL TO BE REUSED. SEE ROADWAY PLANS.
- ▲ DIMENSION GIVEN NORMAL TO ℄ SUBSTRUCTURE
- ◐ ELEVATIONS SHOWN ARE BASED ON ORIGINAL PLANS 1989
- (1) INDICATES WING NUMBER

NO.	DATE	REVISION	BY

Michael Baker INTERNATIONAL
MICHAEL BAKER INTERNATIONAL
250 E. WISCONSIN STREET
SUITE 1725
MILWAUKEE, WI 53202

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORATION

ACCEPTED JLR 11/12/25
CHIEF STRUCTURES DESIGN ENGINEER — DATE

STRUCTURE B-66-102

STH 60 EB OVER IH 41

COUNTY	TOWN
WASHINGTON	POLK

DESIGN SPEC.
REHABILITATION N/A

DESIGNED BY	DESIGNED CK'D	DRAWN BY	PLANS CK'D
AA	SRA	LTK	AA

GENERAL PLAN & ELEVATION

SHEET 1 OF 14
479

SCALE = 1:45

WISCONSIN
AIHAM ALSKIF
E-49460
MADISON, WI
PROFESSIONAL ENGINEER
Aiham Alskif
11/11/2025

STRUCTURE DESIGN CONTACTS:

BUREAU OF STRUCTURES:
AARON BONK (608) 261-0261
CONSULTANT:
JASON SADOWSKI (414) 751-9986

I.D. 2310-09-01

DATE: 07/01/2025

8

8

STATE PROJECT NUMBER
2310-09-71

GENERAL NOTES

THE EXISTING STRUCTURE B-66-102, IS A 2-SPAN STEEL GIRDER STRUCTURE WITH AN OUT-TO-OUT WIDTH OF 46'-0" AND AN END-TO-END OF DECK LENGTH OF 326'-8".

DRAWINGS SHALL NOT BE SCALED.

DIMENSIONS ARE BASED ON EXISTING PLANS.

ALL STATIONS AND ELEVATIONS ARE IN FEET.

BEVEL ALL EXPOSED EDGES OF CONCRETE ¾" UNLESS NOTED OTHERWISE.

ALL CONCRETE REMOVAL SHALL BE DEFINED BY A 1" DEEP SAW CUT, UNLESS SPECIFIED OTHERWISE.

REMOVE THE EXISTING MEDIAN UNDER BID ITEM "REMOVING STRUCTURE B-66-102". USE CAUTION DURING REMOVAL TO AVOID DAMAGE TO THE EXISTING DECK.

REMOVING THE EXISTING MEDIAN SHALL BE PERFORMED BY HAND POWER TOOLS OR AIR HAMMERS WEIGHING LESS THAN 80 POUNDS. HEAVIER EQUIPMENT INCLUDING BACKHOE MOUNTED HAMMERS ARE NOT PERMITTED. PERFORM MEDIAN REMOVAL IN SUCH A MANNER SO AS TO NOT DAMAGE THE DECK.

PREPARATION DECKS TYPE I, AND PREPARATION DECKS TYPE 2 REPAIR AREAS SHALL BE DETERMINED BY THE ENGINEER. DECK PREPARATION REPAIRS SHALL BE FILLED WITH "CONCRETE MASONRY DECK REPAIR".

THE FIRST DIGIT OF A THREE DIGIT BAR MARK AND THE FIRST TWO DIGITS OF A FOUR DIGIT BAR MARK SIGNIFY THE BAR SIZE.

BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2" CLEAR UNLESS SHOWN OR NOTED.

CLEAN, STRAIGHTEN, AND EXTEND EXISTING BAR STEEL REINFORCEMENT 24 BAR DIAMETERS INTO NEW CONSTRUCTION UNLESS SPECIFIED OTHERWISE.

STRIP SEAL EXPANSION JOINT ASSEMBLIES, INCLUDING ANCHOR STUDS, COVER PLATES AND HARDWARE SHALL BE PAID FOR AT THE LINEAL FOOT PRICE BID FOR "EXPANSION DEVICE".

APPLY BRIDGE SEAT PROTECTION, PER SECTION 502.3.12 OF THE STANDARD SPECIFICATIONS, TO THE TOP SURFACES OF BOTH ABUTMENTS BELOW EXPANSION DEVICES. POWERWASH AND ADEQUATELY DRY SURFACES BEFORE APPLICATION. WORK INCIDENTAL TO BID ITEM "CONCRETE MASONRY BRIDGES".

ANY EXCAVATION NECESSARY TO COMPLETE THE WORK AT THE ABUTMENTS IS TO BE CONSIDERED INCIDENTAL TO THE BID ITEM "CONCRETE MASONRY BRIDGES".

CLEAN AND PAINT ALL EXPOSED STEEL SURFACES UNDERNEATH THE BRIDGE DECK. THE SURFACES INCLUDE GIRDERS, DIAPHRAGMS, WEB STIFFENERS, SPLICE PLATES, AND PIER AND ABUTMENT BEARINGS. THE COLOR OF THE FINISH TOP COAT SHALL BE BLUE, SHERWIN WILLIAMS SW6523, OR EQUAL COLOR APPROVED BY THE ENGINEER.

CLEANING AND PAINTING EXPOSED STEEL SURFACES INCLUDES BEARINGS AND IS INCIDENTAL TO "STRUCTURE REPAINTING RECYCLED ABRASIVE B-66-102".

FOR STAGING OF IH 41 PAINT WORK, SEE ROADWAY PLANS.

PROTECTIVE SURFACE TREATMENT SHALL BE APPLIED TO THE ENTIRE TOP AND VERTICAL SURFACES OF THE NEW MEDIAN, THE VERTICAL AND HORIZONTAL SURFACES OF THE EXPOSED PAVING NOTCHES AND PAVING BLOCKS, AND THE ENTIRE TOP OF NEW DECK WITHIN THE JOINT REPLACEMENT LIMITS.

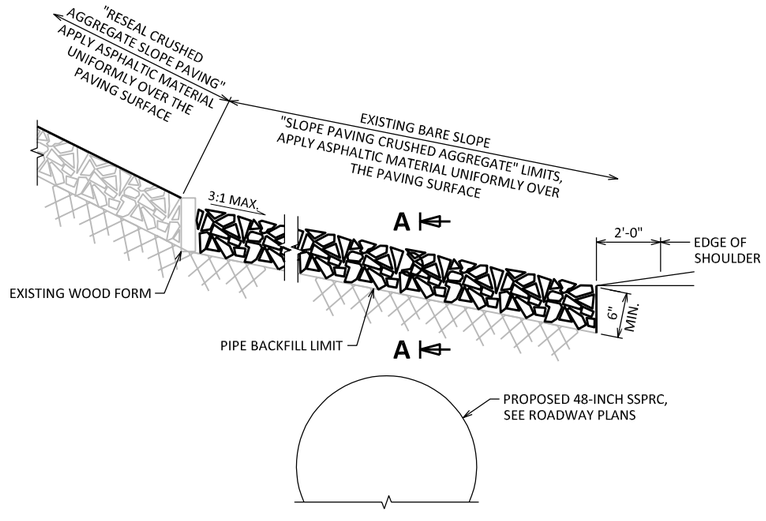
PERFORM "CONCRETE SURFACE REPAIR" AT THE SOUTH RAIL AND AS DIRECTED BY THE FIELD ENGINEER. QUANTITIES SHOWN ON THE PLANS ARE APPROXIMATE.

PERFORM EPOXY CRACK SEALING ON THE TOP OF DECK AS DIRECTED BY THE FIELD ENGINEER.

TOTAL ESTIMATED QUANTITIES

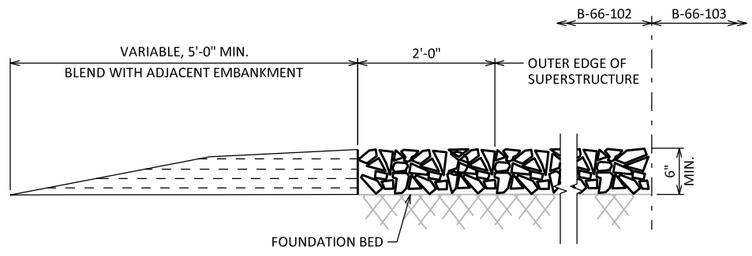
ITEM NUMBER	ITEM DESCRIPTION	UNIT	W. ABUT.	E. ABUT.	SUPER.	TOTAL
203.0220	REMOVING STRUCTURE B-66-102	EACH	---	---	1	1
502.0100	CONCRETE MASONRY BRIDGES	CY	---	---	49	49
502.0180.S	BRIDGE DECK CRACK SEALING	LF	---	---	830	830
502.3101	EXPANSION DEVICE	LF	---	---	122	122
502.3200	PROTECTIVE SURFACE TREATMENT	SY	---	---	250	250
502.4204	ADHESIVE ANCHORS NO. 4 BAR	EACH	---	---	434	434
502.4205	ADHESIVE ANCHORS NO. 5 BAR	EACH	---	---	136	136
505.0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	LB	---	---	7,160	7,160
509.0301	PREPARATION DECKS TYPE 1	SY	---	---	30	30
509.0302	PREPARATION DECKS TYPE 2	SY	---	---	12	12
509.0310.S	SAWING PAVEMENT DECK PREPARATION AREAS	LF	---	---	300	300
509.1000	JOINT REPAIR	SY	---	---	54	54
509.1500	CONCRETE SURFACE REPAIR	SF	---	---	5	5
509.2100.S	CONCRETE MASONRY DECK REPAIR	CY	---	---	3	3
517.1801.S	STRUCTURE REPAINTING RECYCLED ABRASIVE B-66-102	EACH	---	---	1	1
517.4501.S	NEGATIVE PRESSURE CONTAINMENT AND COLLECTION OF WASTE MATERIALS B-66-102	EACH	---	---	1	1
517.6001.S	PORTABLE DECONTAMINATION FACILITY	EACH	---	---	1	1
604.0500	SLOPE PAVING CRUSHED AGGREGATE	SY	112	---	---	112
604.9015.S	RESEAL CRUSHED AGGREGATE SLOPE PAVING	SY	130	180	---	310
	NON-BID ITEMS					
	BRIDGE SEAT PROTECTION		---	---	---	---

NOTE: SLOPE PAVING, CONCRETE SURFACE REPAIR, DECK PREPARATION, AND CRACK SEALING EPOXY QUANTITIES ARE APPROXIMATE AND WILL NEED TO BE VERIFIED IN THE FIELD BY THE ENGINEER.



SECTION AT NEW SLOPE PAVING CRUSHED AGGREGATE

WEST SLOPE ONLY
ROUND STONE WILL NOT BE ACCEPTED



SECTION A-A

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-66-102

DRAWN BY LTK | PLANS CK'D AA

GENERAL NOTES & QUANTITIES

SHEET 2 OF 14
480

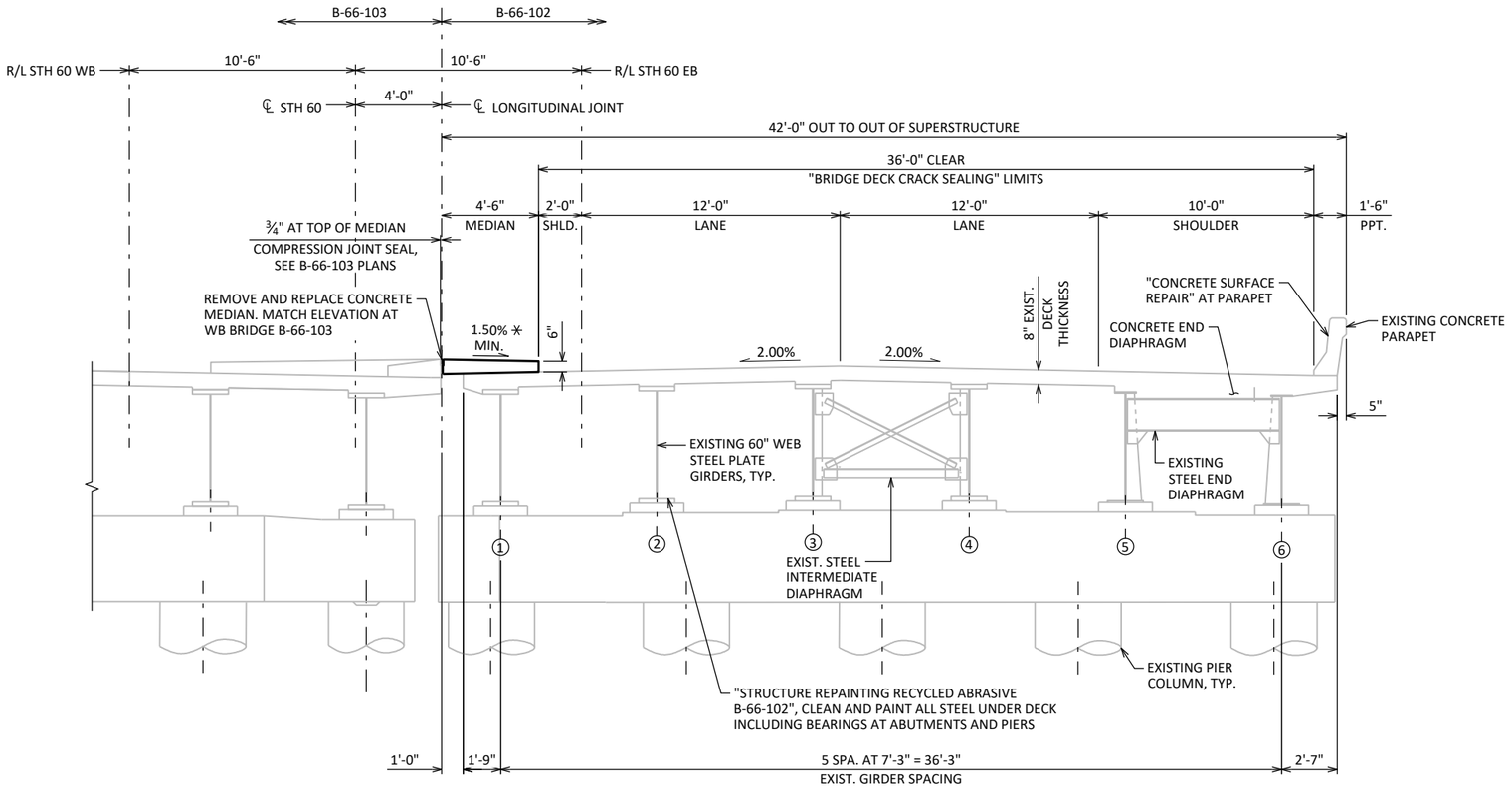
SCALE = NA

8

8

STATE PROJECT NUMBER

2310-09-71



CROSS SECTION

LOOKING EAST

LEGEND

◯ GIRDER NUMBER

✳ ADJUST CROSS-SLOPE AND MEDIAN THICKNESS AT OUTSIDE EDGE TO MATCH W.B. MEDIAN.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-66-102

DRAWN BY LTK | PLANS CK'D AA

CROSS SECTION

SHEET 3 OF 14

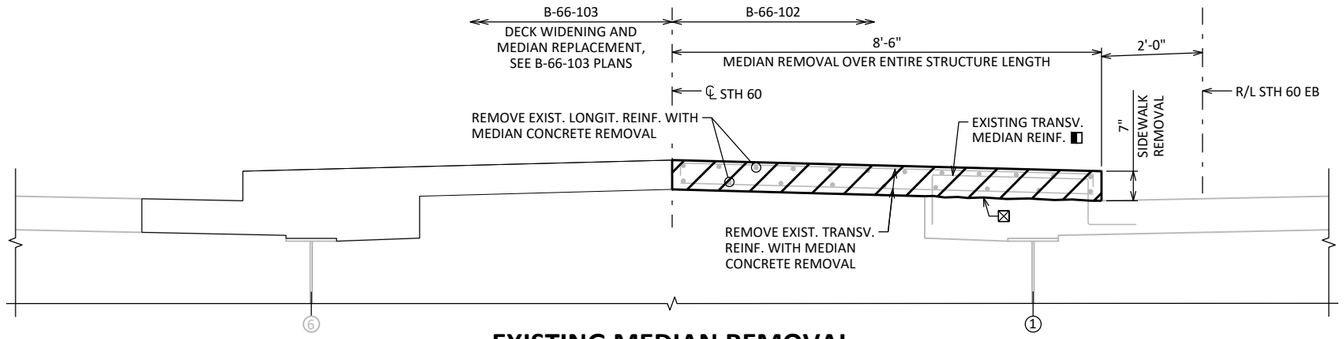
481

SCALE = 7

8

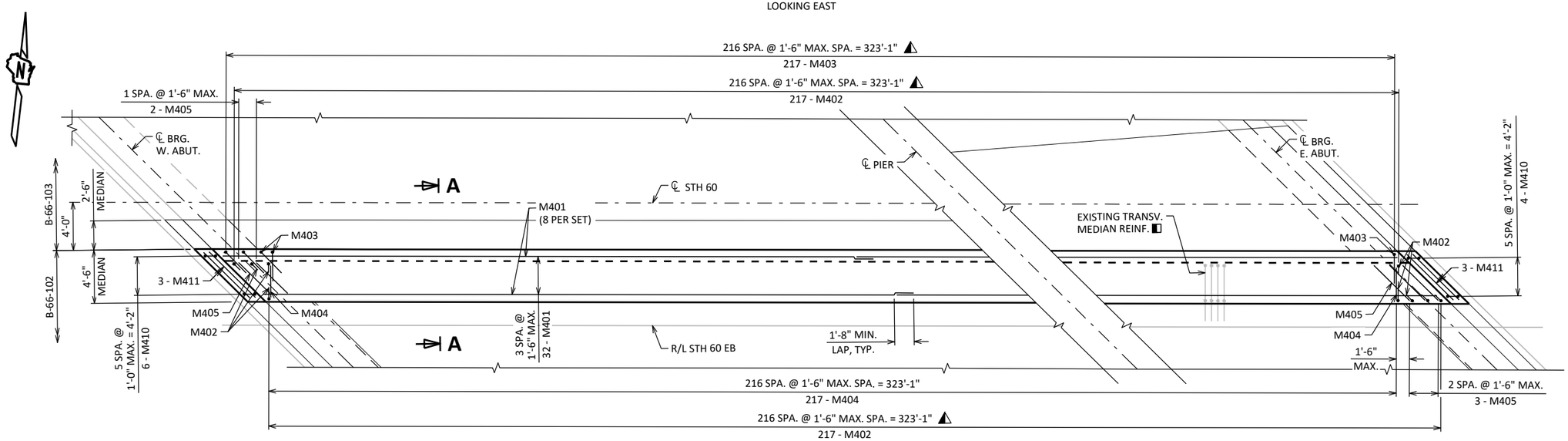
8

STATE PROJECT NUMBER
2310-09-71



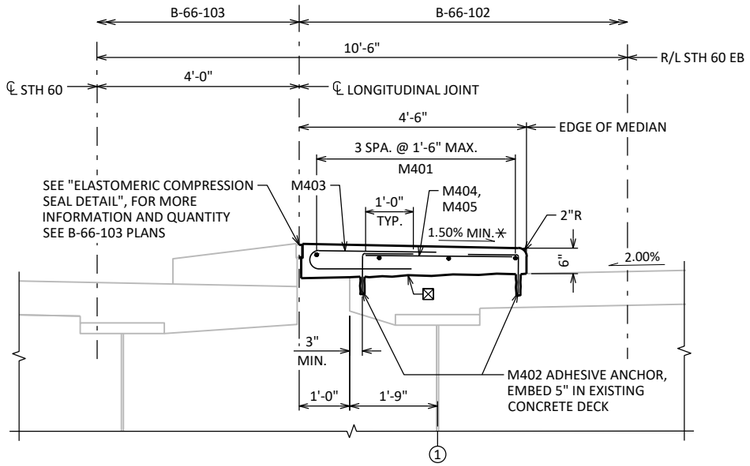
EXISTING MEDIAN REMOVAL

LOOKING EAST



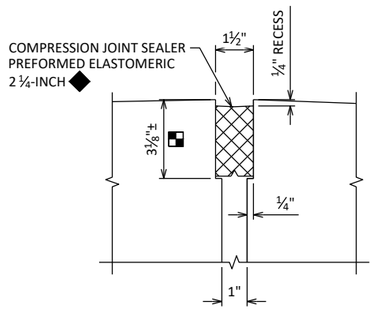
MEDIAN REPLACEMENT PLAN

JOINT REPLACEMENT REINFORCEMENT WITHIN THE MEDIAN REPLACEMENT LIMITS NOT SHOWN FOR CLARITY. SEE "WEST JOINT REPLACEMENT DETAILS" SHEETS FOR ADDITIONAL JOINT REINFORCEMENT.



SECTION A-A

LOOKING EAST



ELASTOMERIC COMPRESSION SEAL DETAIL

DETAIL SHOWN FOR CONSTRUCTION GEOMETRY INFORMATION, SEE B-66-103 PLANS FOR MORE INFORMATION AND QUANTITIES PERTAINING TO THE LONGITUDINAL COMPRESSION JOINT SEALER.

NOTES

CLEAN ALL LOOSE MATERIAL ON THE DECK AT THE MEDIAN LOCATION PRIOR TO MEDIAN PLACEMENT USING HIGH PRESSURE WATER OR AIR, ENSURING ALL FREE STANDING WATER IS REMOVED PRIOR TO MEDIAN PLACEMENT. NEAT CEMENT IS REQUIRED AS PER 509.3.9.2 IF THE STANDARD SPECIFICATIONS.

LEGEND

- EXISTING CONCRETE MEDIAN TO BE REMOVED FOR MEDIAN REPLACEMENT
- CONSTRUCTION JOINT-STRIKE OFF AS SHOWN AND LEAVE ROUGH.
- EXISTING TRANSVERSE MEDIAN REINFORCEMENT. SAVE AND INCORPORATE TOP PORTION OF BARS WITHIN MEDIAN REPLACEMENT.
- VARIES BASED ON JOINT MANUFACTURER
- MANUFACTURER SHALL LABEL TOP OF SEAL
- TURN LEG TO FIT NEAR END OF DECK
- ADJUST CROSS-SLOPE AND MEDIAN THICKNESS AT OUTSIDE EDGE TO MATCH W.B. MEDIAN.
- GIRDER DESIGNATION

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-66-102

DRAWN BY LTK | PLANS CK'D AA

MEDIAN REPLACEMENT

SHEET 4 OF 14

482

SCALE = 12

8

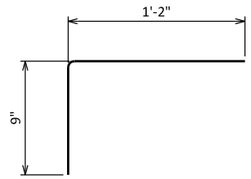
8

STATE PROJECT NUMBER

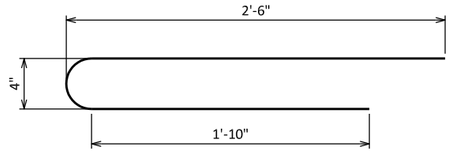
2310-09-71

BILL OF BARS: MEDIAN

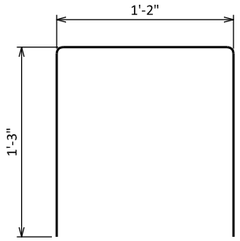
BAR MARK	NO. REQ'D.	LENGTH	COAT	STAINLESS STEEL	BENT	BAR SERIES	LOCATION
M401	32	41'-11"	X				MEDIAN - LONGITUDINAL, SPAN 1 & SPAN 2
M402	434	1'-10"	X		X		MEDIAN - TRANSVERSE, L-BAR
M403	220	4'-11"	X		X		MEDIAN - TRANSVERSE, OVERHANG HOOK
M404	217	4'-2"	X				MEDIAN - TRANSVERSE
M405	5	3'-10"	X				MEDIAN - TRANSVERSE
M410	12	3'-6"	X		X		MEDIAN - PAVING BLOCK, U-BAR
M411	6	6'-1"	X				MEDIAN - PAVING BLOCK, TRANSVERSE



M402



M403



M410

8

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-66-102

DRAWN BY LTK | PLANS CK'D AA

BILL OF BARS: MEDIAN

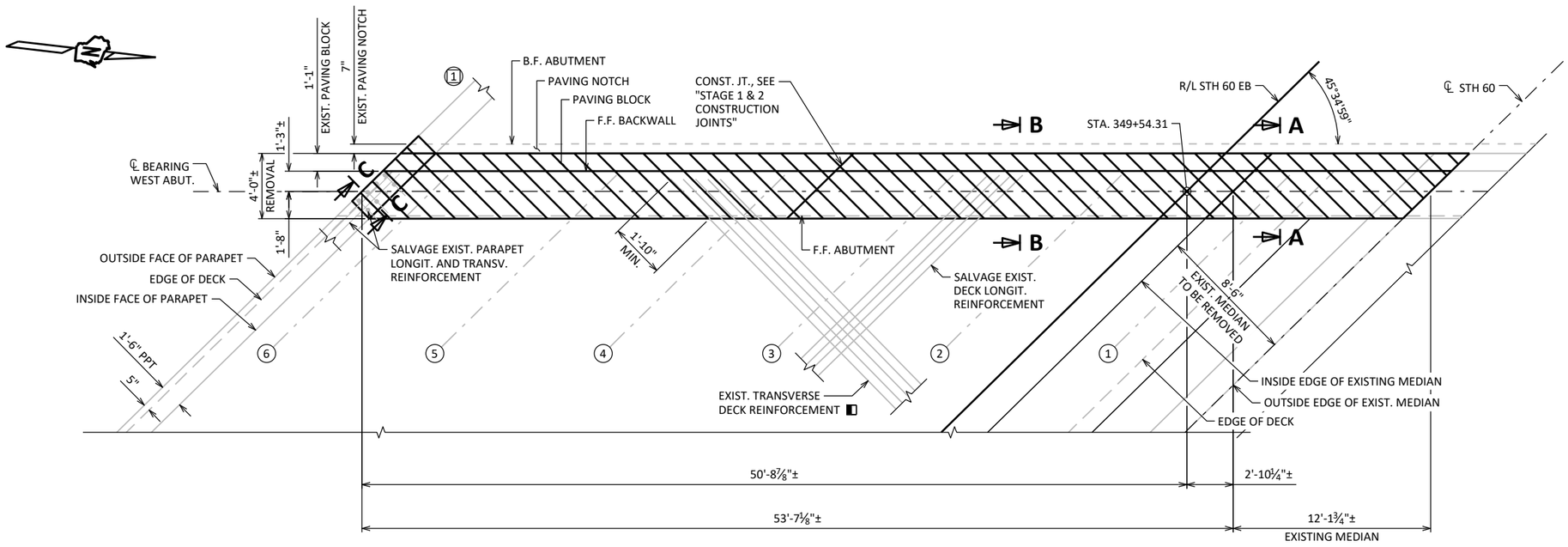
SHEET 5 OF 14

483

SCALE = 12

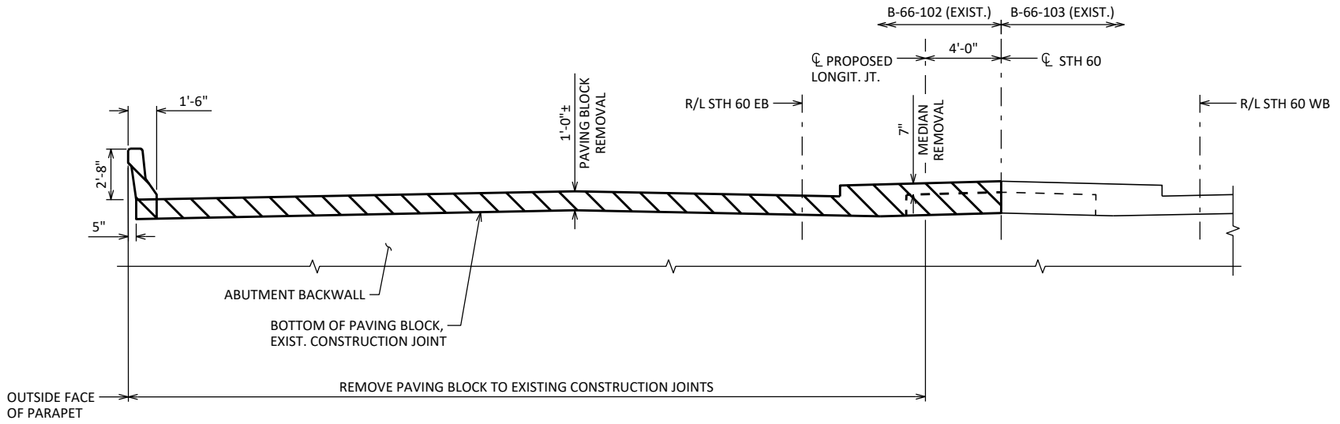
STATE PROJECT NUMBER

2310-09-71



REMOVAL PLAN - WEST JOINT

WEST JOINT SHOWN, EAST JOINT IS SIMILAR



PAVING BLOCK REMOVAL - WEST JOINT

LOOKING WEST
WEST JOINT SHOWN, EAST JOINT IS SIMILAR

NOTE:

ALL DIMENSIONS SHOWN ON THIS SHEET ARE TAKEN ALONG AND NORMAL TO ℄ BEARING WEST ABUTMENT, UNLESS NOTED OTHERWISE.

FOR SECTIONS A-A, B-B, AND C-C, SEE "WEST JOINT REMOVAL DETAILS (2 OF 2)" SHEET.

ADJUST REMOVAL LIMITS AS NECESSARY TO FIT NEW EXPANSION JOINT HARDWARE AND CONDITIONS ENCOUNTERED. CHANGES TO REMOVAL LIMITS TO BE APPROVED BY THE ENGINEER.

LEGEND:

- EXISTING CONCRETE TO BE REMOVED FOR JOINT REPLACEMENT
- EXISTING TRANSVERSE REINFORCEMENT IS PLACED NORMAL TO GIRDERS. SAVE AND INCORPORATE 1'-10" MIN OF TRANSVERSE REINFORCEMENT BARS. WITHIN DECK WIDENING LIMITS, SAVE AND INCORPORATE ENTIRE EXISTING TRANSVERSE REINFORCEMENT LENGTH
- GIRDER DESIGNATION
- INDICATES WING NUMBER

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-66-102

DRAWN BY LTK | PLANS CK'D AA

WEST JOINT REMOVAL DETAILS (1 OF 2)

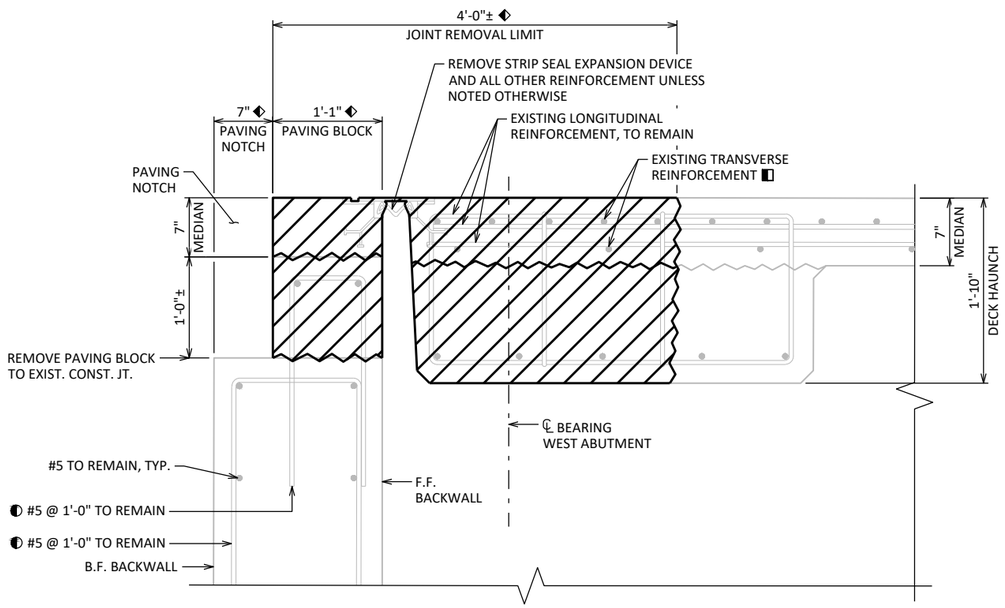
SHEET 6 OF 14

484

SCALE =

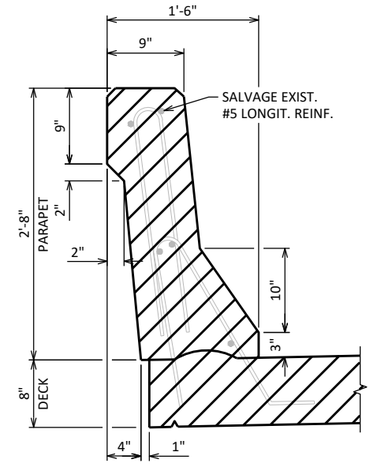
STATE PROJECT NUMBER

2310-09-71

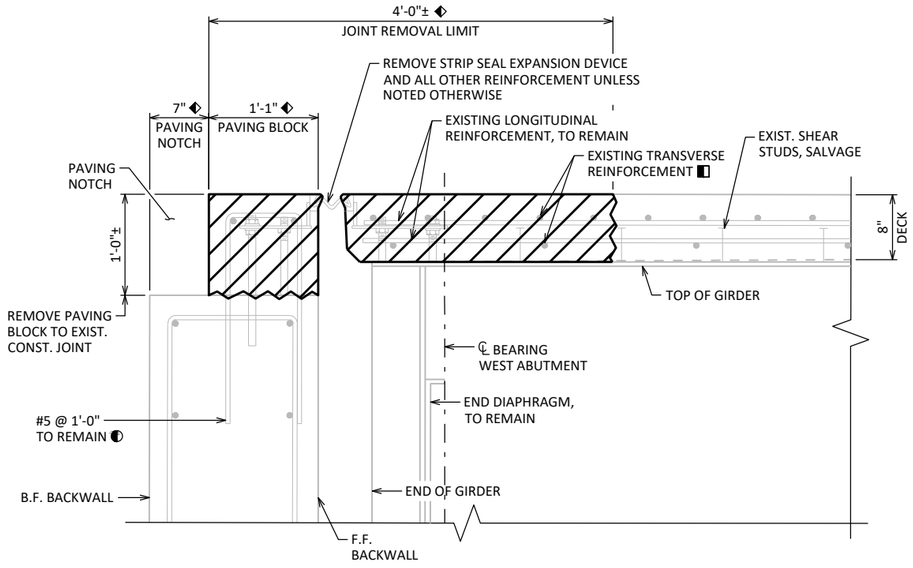


SECTION A-A AT MEDIAN

NORMAL TO ℄ OF ABUTMENT
WEST JOINT SHOWN, EAST JOINT SIMILAR



SECTION C-C



SECTION B-B

NORMAL TO ℄ OF ABUTMENT
WEST JOINT SHOWN, EAST JOINT SIMILAR

NOTE:

ALL DIMENSIONS SHOWN ON THIS SHEET ARE TAKEN ALONG AND NORMAL TO ℄ BEARING WEST ABUTMENT, UNLESS NOTED OTHERWISE.

ALL DETAILS ARE SIMILAR AT EAST JOINT.

LEGEND:

- EXISTING CONCRETE TO BE REMOVED FOR JOINT REPLACEMENT
- ⬖ DIMENSION TAKEN NORMAL TO ℄ ABUT.
- ◧ EXISTING TRANSVERSE REINFORCEMENT IS PLACED NORMAL TO GIRDERS. SAVE AND INCORPORATE FULL LENGTH OF TRANSVERSE REINFORCEMENT BARS INTO NEW WORK.
- ◐ SALVAGE EXIST. REINF. & EXTEND FULL LENGTH INTO NEW WORK. IF EXISTING BARS ARE SEVERELY CORRODED OR DAMAGED DURING CONCRETE REMOVAL, REPLACE WITH EPOXY ANCHORED NO. 5 L-SHAPED BARS WITH A 10" HORIZ. LEG. EMBED 7".

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-66-102

DRAWN BY LTK | PLANS CK'D AA

WEST JOINT REMOVAL DETAILS (2 OF 2)

SHEET 7 OF 14

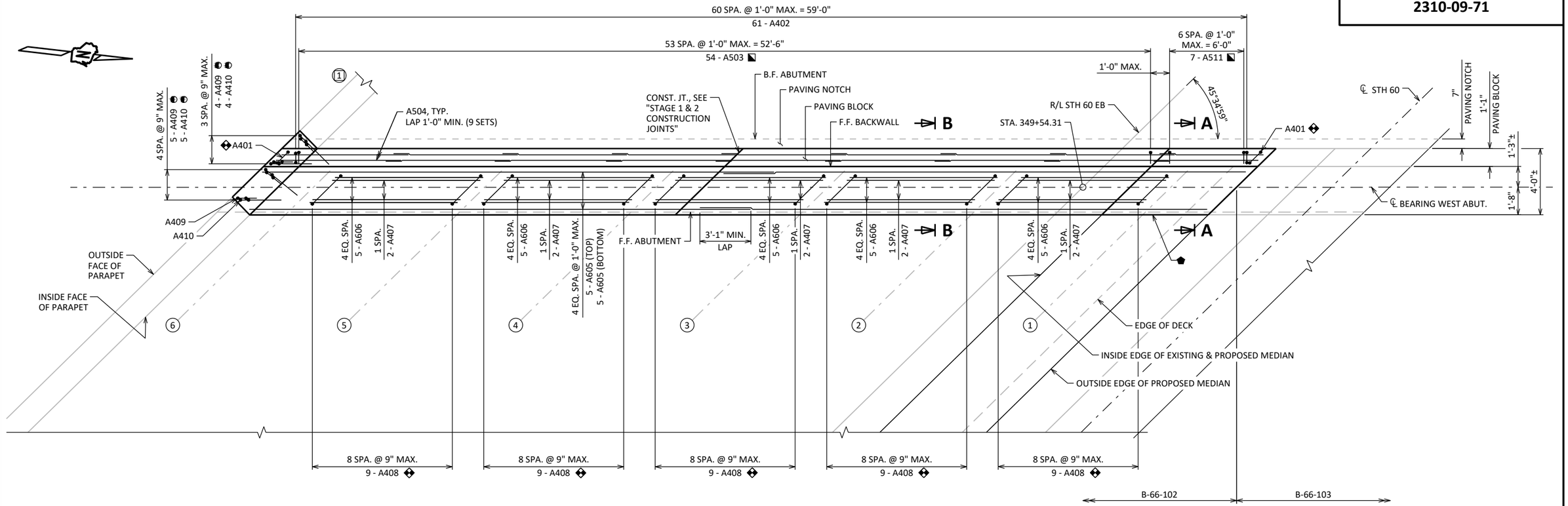
485

SCALE =

8

8

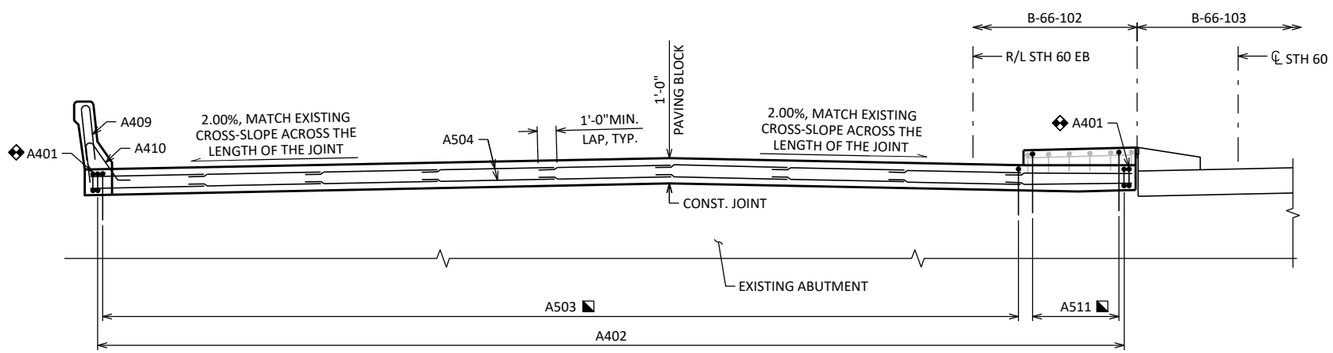
STATE PROJECT NUMBER
2310-09-71



REPLACEMENT REINFORCEMENT PLAN - WEST JOINT

MEDIAN REPLACEMENT REINFORCEMENT NOT SHOWN FOR CLARITY.
SEE "MEDIAN REPLACEMENT" SHEET FOR DETAILS LOCATED WITHIN JOINT REPLACEMENT LIMITS.

WEST JOINT SHOWN, EAST JOINT IS SIMILAR



PAVING BLOCK REPLACEMENT REINFORCEMENT - WEST JOINT

TAKEN ALONG ℄ ABUTMENT.
FOR PROPOSED MEDIAN REINFORCEMENT WITHIN JOINT REPLACEMENT LIMITS, SEE "MEDIAN REPLACEMENT" SHEET.

WEST JOINT SHOWN, EAST JOINT IS SIMILAR

NOTE:

ALL DIMENSIONS SHOWN ON THIS SHEET ARE TAKEN ALONG AND NORMAL TO ℄ BEARING WEST ABUTMENT, UNLESS NOTED OTHERWISE.

FOR SECTIONS A-A AND B-B, SEE "WEST JOINT REPLACEMENT DETAILS (2 OF 2)" SHEET.

LEGEND:

- PLACE PARAPET BARS PERPENDICULARLY. TURN BARS AS NECESSARY TO FIT WITHIN JOINT REPLACEMENT LIMITS.
- BARS PLACED PARALLEL TO GIRDERS. SPACING PERPENDICULAR TO ℄ GIRDERS.
- ADHESIVE ANCHORS NO. 5 BAR. EMBED 1'-0" IN CONCRETE. SPACE AT 1'-0". TURN 10" LEG AS NECESSARY TO FIT WHEN APPLICABLE.
- ROUGHEN SURFACE OF CONCRETE ¼" DEEP MIN. AT ALL AREAS WHERE NEW CONCRETE CONTACTS EXISTING CONCRETE.
- GIRDER DESIGNATION
- INDICATES WING NUMBER

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-66-102

DRAWN BY LTK | PLANS CK'D AA

WEST JOINT REPLACEMENT DETAILS (1 OF 2)

SHEET 8 OF 14
486

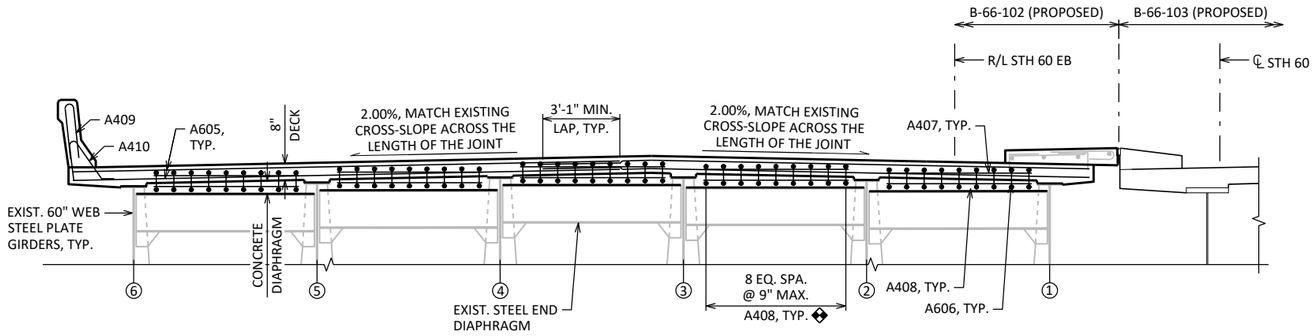
SCALE =

8

8

STATE PROJECT NUMBER

2310-09-71



DECK REPLACEMENT REINFORCEMENT - WEST JOINT

TAKEN ALONG ℄ ABUTMENT.
EXISTING SALVAGED DECK REINFORCEMENT NOT SHOWN FOR CLARITY. SEE "WEST JOINT REMOVAL DETAILS (1 OF 2)". FOR PROPOSED MEDIAN REINFORCEMENT WITHIN JOINT REPLACEMENT LIMITS, SEE "MEDIAN REPLACEMENT" SHEET.

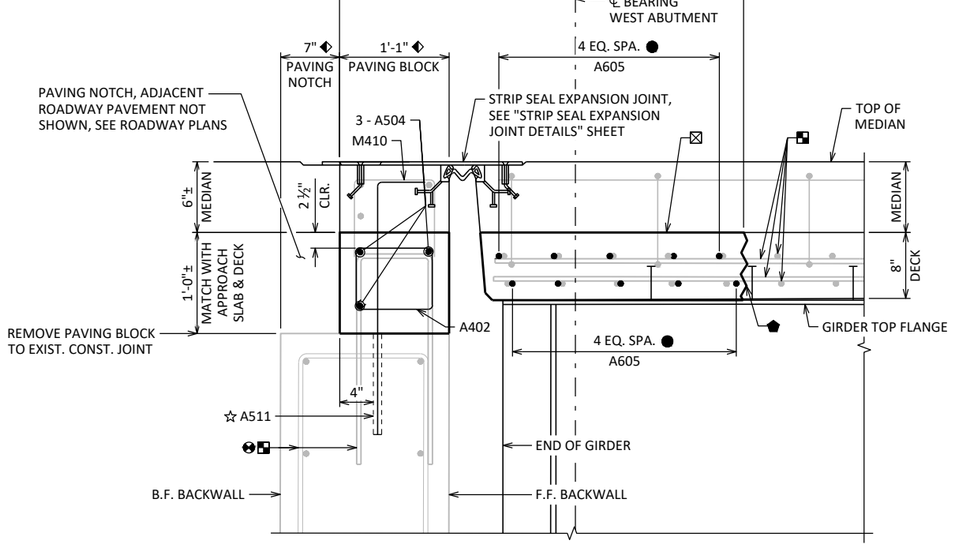
WEST JOINT SHOWN, EAST JOINT IS SIMILAR

NOTE:

ALL DIMENSIONS SHOWN ON THIS SHEET ARE TAKEN ALONG AND NORMAL TO ℄ BEARING WEST ABUTMENT, UNLESS NOTED OTHERWISE.

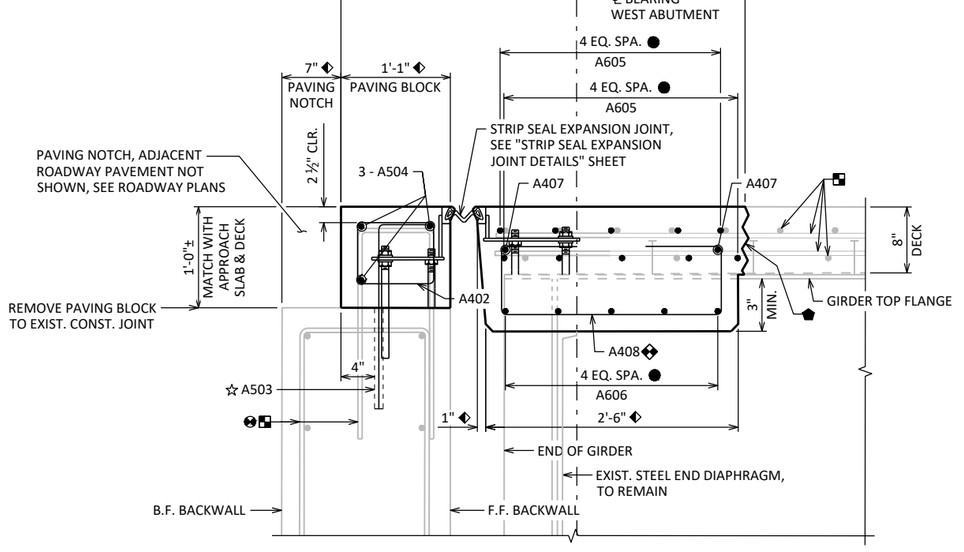
LEGEND:

- ☆ ADHESIVE ANCHORS NO. 5 BAR. EMBED 1'-0" IN CONCRETE. SPACE AT 1'-0". TURN 10" LEG AS NECESSARY TO FIT WHEN APPLICABLE.
- ◆ DIMENSION TAKEN NORMAL TO ℄ ABUT.
- ◆ BARS PLACED PARALLEL TO GIRDERS. SPACING PERPENDICULAR TO ℄ GIRDERS.
- ▪ SALVAGE EXIST. REINF. & EXTEND FULL LENGTH INTO NEW WORK.
- ☢ IF EXISTING BARS ARE SEVERELY CORRODED OR DAMAGED DURING CONCRETE REMOVAL, REPLACE WITH EPOXY ANCHORED NO. 5 L-SHAPED BARS WITH A 10" HORIZ. LEG. EMBED 7". WORK TO BE PAID UNDER ITEM "JOINT REPAIR".
- ⊠ CONST. JOINT - STRIKE OFF AS SHOWN AND LEAVE ROUGH.
- ⬟ ROUGHEN SURFACE OF CONCRETE ¼" DEEP MIN. AT ALL AREAS WHERE NEW CONCRETE CONTACTS EXISTING CONCRETE.
- ● BARS PLACED PARALLEL TO SUBSTRUCTURE.
- ◯ INDICATES GIRDER NUMBER



SECTION A-A

NORMAL TO ℄ OF ABUTMENT
FOR MEDIAN REINFORCEMENT WITHIN JOINT REPLACEMENT LIMITS, SEE "MEDIAN REPLACEMENT" SHEET.



SECTION B-B

NORMAL TO ℄ OF ABUTMENT
FOR MEDIAN REINFORCEMENT WITHIN JOINT REPLACEMENT LIMITS, SEE "MEDIAN REPLACEMENT" SHEET.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-66-102

DRAWN BY LTK | PLANS CK'D AA

WEST JOINT REPLACEMENT DETAILS (2 OF 2)

SHEET 9 OF 14
487

SCALE =

8

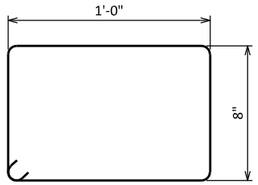
8

STATE PROJECT NUMBER

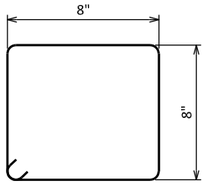
2310-09-71

BILL OF BARS:

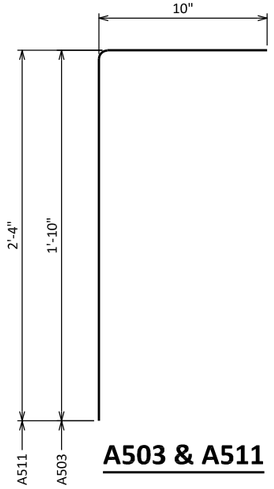
	BAR MARK	NO. REQ'D.	LENGTH	COAT	STAINLESS STEEL	BENT	BAR SERIES	LOCATION
	A401	4	3'-10"	X		X		JOINT PAVING BLOCK - STIRRUP
	A402	122	3'-2"	X		X		JOINT PAVING BLOCK - STIRRUP
☆	A503	122	2'-7"	X		X		JOINT PAVING BLOCK - DECK L-BAR
	A504	54	7'-7"	X				JOINT PAVING BLOCK - TRANSVERSE
	A605	40	31'-7"	X				DECK - TOP AND BOTTOM TRANSVERSE
	A606	50	8'-9"	X				DECK DIAPHRAGM, BETWEEN GIRDERS - TRANSVERSE
	A407	20	8'-9"	X				DECK DIAPHRAGM, BETWEEN GIRDERS - TRANSVERSE
	A408	90	5'-10"	X		X		DECK DIAPHRAGM, BETWEEN GIRDERS - STIRRUP
	A409	18	4'-10"	X		X		JOINT, PARAPET - TOP BAR
	A410	18	4'-3"	X		X		JOINT, PARAPET - BOTTOM BAR
☆	A511	14	3'-2"	X		X		JOINT PAVING BLOCK - MEDIAN L-BAR
⚠	A414	20	10'-0"	X				DECK END DIAPHRAGM AT EXP. JT. ANCHOR PLATE - TRANSVERSE



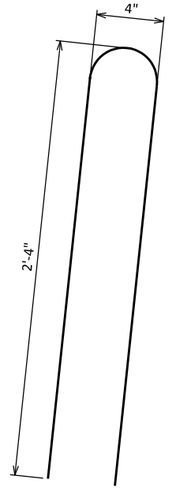
A401



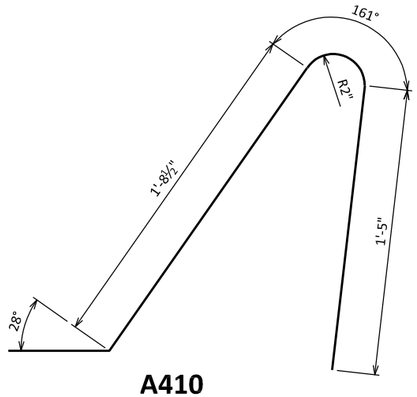
A402



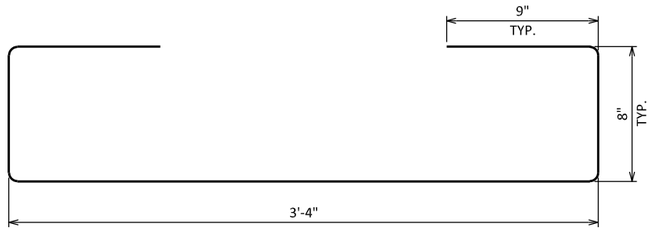
A503 & A511



A409



A410



A408

LEGEND:

☆ ADHESIVE ANCHORS NO. 5 BAR. EMBED 1'-0" IN CONCRETE. SPACE AT 1'-0". TURN 10" LEG AS NECESSARY TO FIT WHEN APPLICABLE.

⚠ SEE "STRIP SEAL EXPANSION JOINT DETAILS" SHEET FOR BAR LOCATION.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-66-102

DRAWN BY LTK | PLANS CK'D AA

BILL OF BARS: JOINTS

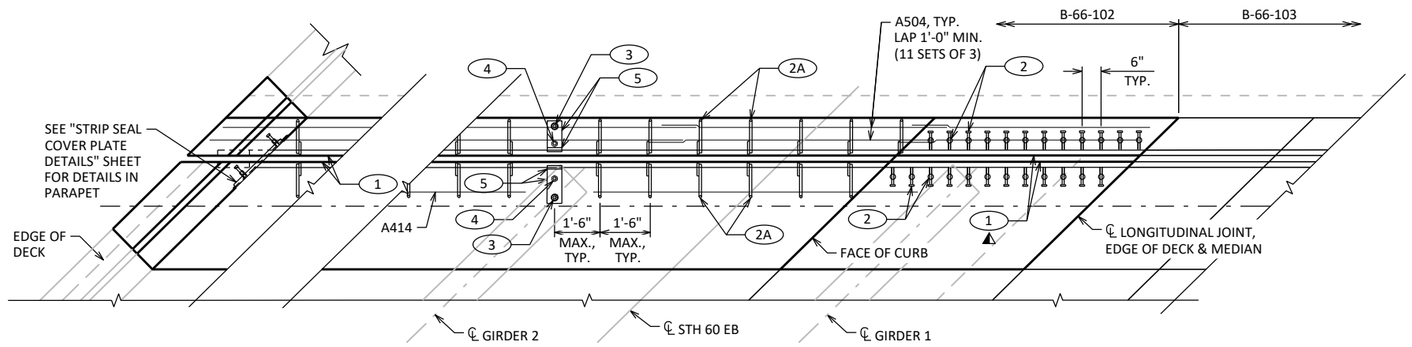
SHEET 10 OF 14

488

SCALE =

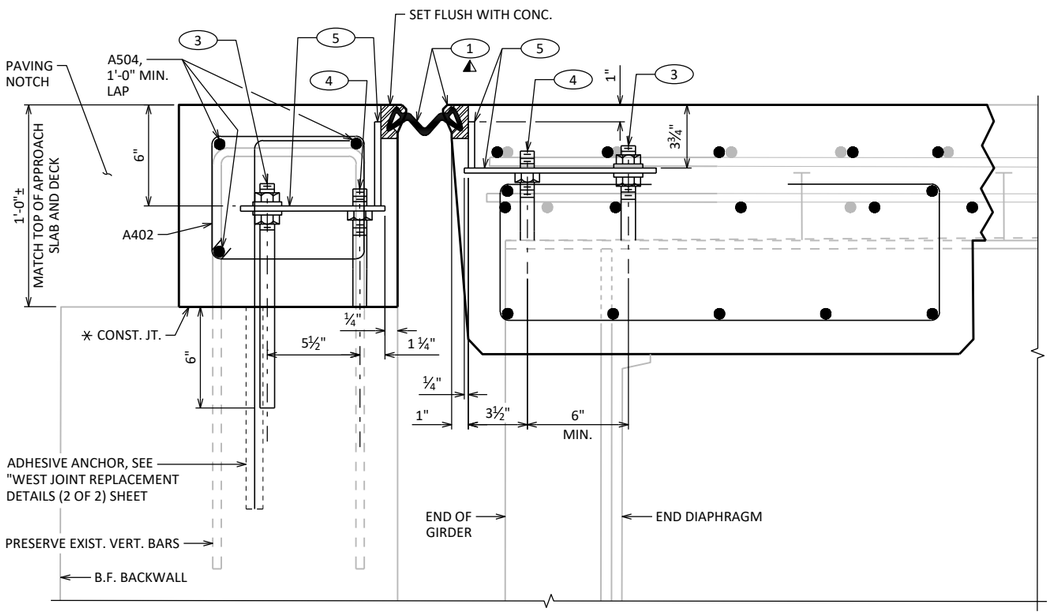
STATE PROJECT NUMBER

2310-09-71



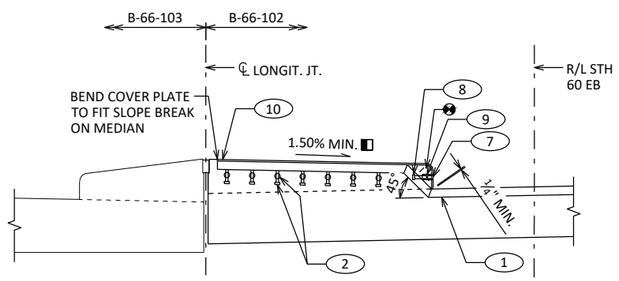
PARTIAL PLAN AT WEST ABUTMENT

WEST JOINT SHOWN, EAST JOINT SIMILAR



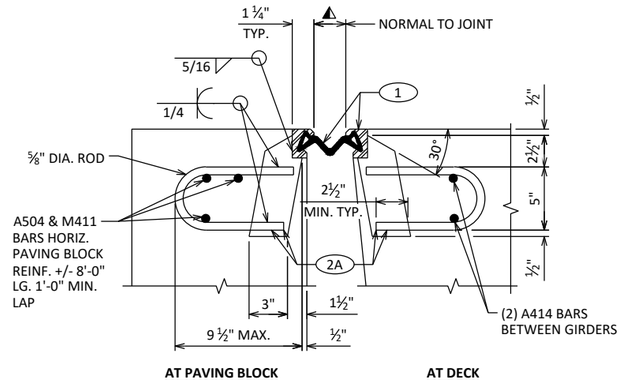
SECTION THRU JOINT AT WEST ABUTMENT

WEST JOINT SHOWN, EAST JOINT SIMILAR
NORMAL TO ℄ SUBSTRUCTURE
SECTION SHOWN BETWEEN MEDIAN CURB AND PARAPET



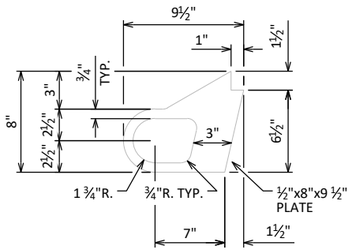
SECTION AT MEDIAN

LOOKING EAST
WEST JOINT SHOWN, EAST JOINT SIMILAR
SEE STRIP SEAL COVER PLATE SHEET

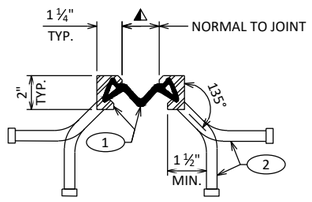


SECTION THRU JOINT

ROADWAY TRAFFIC AREA BETWEEN EXTERIOR GIRDERS



ALTERNATE STRIP SEAL ANCHOR



SECTION THRU JOINT

AT MEDIAN AND PARAPET

NOTE:

ONE FIELD SPLICE PERMITTED IN STEEL EXTRUSIONS. IF USED, ANCHOR PLATES SHALL BE PROVIDED 3" FROM EACH SIDE OF THE FIELD SPLICE. DETAILS SHALL BE SUBMITTED FOR APPROVAL. NO SPLICING PERMITTED IN NEOPRENE SEAL.

AFTER FABRICATION, BUT BEFORE SHIPMENT, STRAIGHTEN STEEL EXTRUSIONS SUCH THAT THEY SHALL BE FREE FROM WARP, TWIST, AND SWEEP.

FABRICATOR SHALL PROVIDE MEANS OF KEEPING GALVANIZED EXTRUSION CLEAN AND SMOOTH DURING SHIPMENT AND PRIOR TO APPLYING LUBRICANT ADHESIVE FOR NEOPRENE GLAND INSTALLATION.

SANDBLAST PLATES, SUPPORTS AND EXTRUSIONS AFTER FABRICATION IN ACCORDANCE WITH SSPC SP. #6 "COMMERCIAL BLAST CLEANING". AFTER BLAST CLEANING, THE PLATES, SUPPORTS AND EXTRUSIONS SHALL BE HOT DIPPED GALVANIZED. SLIP-RESISTANT SURFACE IS APPLIED TO SIDEWALK AND MEDIAN COVER PLATES BY THE MANUFACTURER AND THEN HOT DIPPED GALVANIZED TO THEIR RECOMMENDATION TO MAINTAIN THE INTEGRITY OF THIS SURFACE.

ANCHOR SYSTEM NO. 8 AND NO. 9 SHALL CONFIRM TO ASTM A307 & SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A153 CLASS C AND D.

STRIP SEAL EXPANSION JOINT ASSEMBLY, INCLUDING ANCHOR STUDS AND HARDWARE WILL BE PAID FOR UNDER THE BID ITEM "EXPANSION DEVICE".

LEGEND:

- BLOCK OUT CONCRETE 2" EACH SIDE OF JOINT OPENING.
- ⁎ POUR CONCRETE ABOVE THIS JOINT AFTER SUPERSTRUCTURE IS IN PLACE. STRIKE OFF AND LEAVE ROUGH.
- ADJUST CROSS-SLOPE AND MEDIAN THICKNESS AT OUTSIDE EDGE TO MATCH W.B. MEDIAN.
- (1) NEOPRENE STRIP SEAL (4-INCH) AND STEEL EXTRUSIONS. JOINT OPENINGS GIVEN NORMAL TO JOINT. SET JOINT OPENING TO 1 ¾".
- (2) STUDS ⅝" DIA. X 6 ⅜" LONG AT 6" ALTERNATE CENTERS. WELD TO EXTRUSIONS AND BEND AS SHOWN AFTER WELDING.
- (2A) ½" THICK ANCHOR PLATE WITH ⅝" DIA. ROD (OR ALTERNATE STRIP SEAL ANCHOR). WELD ROD TO ANCHOR PLATE, WELD ANCHOR PLATE TO NO. 1 AT 1'-6" CENTERS BETWEEN GIRDERS.
- (3) ¾" DIA. THREADED ROD WITH 2 NUTS AND PLATE WASHERS. GROUT THREADED ROD INTO FIELD DRILLED HOLES ON C/L OF GIRDER AT WEST ABUTMENT, PAVING BLOCKS, AND AT STA. 17+28.33 JOINT. BOLT THROUGH AND SUPPORT ON FORMS AT OTHER LOCATIONS.
- (4) ¾" DIA. THREADED ROD WITH NUT. TACK WELD NUT TO NO. 5.
- (5) FABRICATE SUPPORT FROM 3" x ½" BAR AS SHOWN OR EQUIVALENT. SHOP OR FIELD WELD TO NO. 1. IF FIELD WELDED, COVER WELDED AREAS WITH EPOXY-COATING MATERIAL. PROVIDE 1 ½" DIA. HOLE FOR NO. 3 AND 1" DIA. HOLE FOR NO. 4. PROVIDE ONE PER GIRDER AT WEST ABUTMENT. AT OTHER LOCATIONS, SPACE AT APPROXIMATELY 8'-0" O.C.
- (7) ¾" DIA. x 1 ½" STAINLESS STEEL SOCKET FLAT HEAD SCREWS WITH ANTI-SEIZE LUBRICANT. PLACE IN COUNTERSUNK HOLE. RECESS 1/16" BELOW PLATE SURFACE.
- (8) ¾" DIA. x 4" GALVANIZED HEX HEAD BOLT, BEND 45°.
- (9) ¾" DIA. x 2 ¼" GALVANIZED THREADED COUPLING.
- (10) MEDIAN COVER PLATE ⅜" X 1'-6" WIDE X LIMITS SHOWN. BEND DOWN FACE OF SIDEWALK WITH HOLES FOR NO. 7. GALVANIZE PLATE AFTER SLIP-RESISTANT SURFACE APPLIED.
- (11) 1" x 5" SLOTTED COUNTERSUNK HOLE FOR NO. 7. PLACE SLOT PARALLEL TO DIRECTION OF MOVEMENT.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-66-102

DRAWN BY LTK | PLANS CK'D AA

STRIP SEAL EXPANSION JOINT DETAILS

SHEET 11 OF 14

489

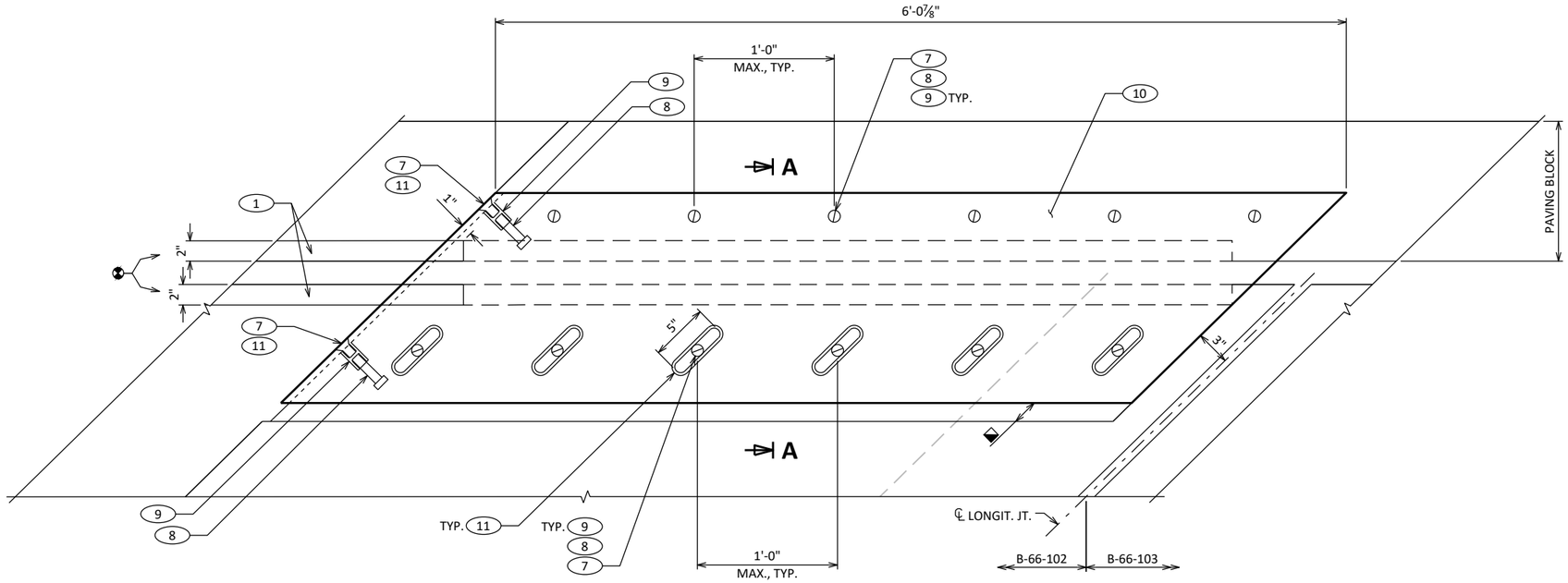
SCALE =

8

8

STATE PROJECT NUMBER

2310-09-71



PLAN AT WEST JOINT MEDIAN COVER PLATE

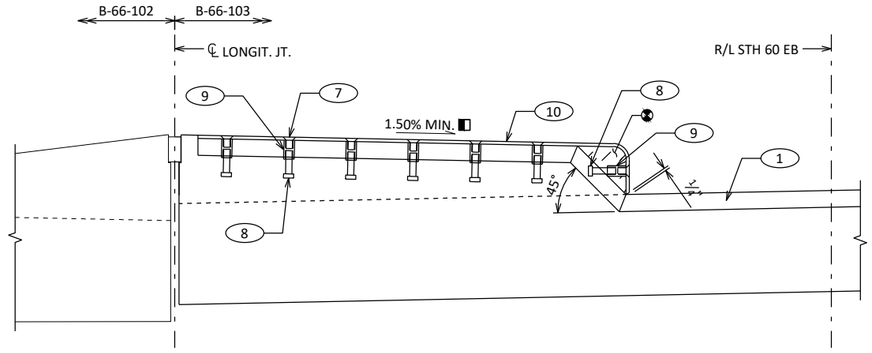
LOOKING WEST
EAST MEDIAN COVER PLATE SIMILAR

NOTE:

SEE "WEST JOINT REPLACEMENT DETAILS (1 OF 2)" SHEET FOR EXPANSION JOINT NOTES.

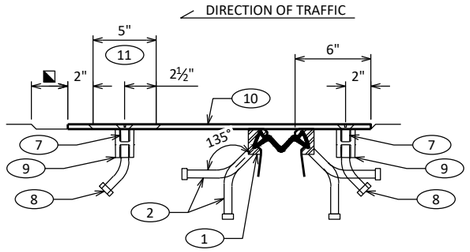
LEGEND:

- BLOCK OUT CONCRETE 2" EACH SIDE OF JOINT OPENING.
- JOINT OPENING DIMENSION ALONG SKEW PLUS ½"
- ADJUST CROSS-SLOPE AND MEDIAN THICKNESS AT OUTSIDE EDGE TO MATCH W.B. MEDIAN.
- (1) NEOPRENE STRIP SEAL (4-INCH) AND STEEL EXTRUSIONS. JOINT OPENINGS GIVEN NORMAL TO JOINT. SET JOINT OPENING TO 1 ¾".
- (7) ¾" DIA. x 1 ½" STAINLESS STEEL SOCKET FLAT HEAD SCREWS WITH ANTI-SEIZE LUBRICANT. PLACE IN COUNTERSUNK HOLE. RECESS 1/16" BELOW PLATE SURFACE.
- (8) ¾" DIA. x 4" GALVANIZED HEX HEAD BOLT, BEND 45°.
- (9) ¾" DIA. x 2 ¼" GALVANIZED THREADED COUPLING.
- (10) SIDEWALK COVER PLATE ⅜" X 3'-0" WIDE X LIMITS SHOWN. BEND DOWN FACE OF SIDEWALK WITH HOLES FOR NO. 7. GALVANIZE PLATE AFTER SLIP-RESISTANT SURFACE APPLIED.
- (11) 1" x 5" SLOTTED COUNTERSUNK HOLE FOR NO. 7. PLACE SLOT PARALLEL TO DIRECTION OF MOVEMENT.



SECTION AT MEDIAN

WEST JOINT SHOWN, EAST JOINT SIMILAR
SEE STRIP SEAL COVER PLATE SHEET



SECTION A-A

TYP. UNLESS NOTED OTHERWISE

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-66-102

DRAWN BY LTK | PLANS CK'D AA

STRIP SEAL COVER PLATE DETAILS: MEDIAN

SHEET 12 OF 14

490

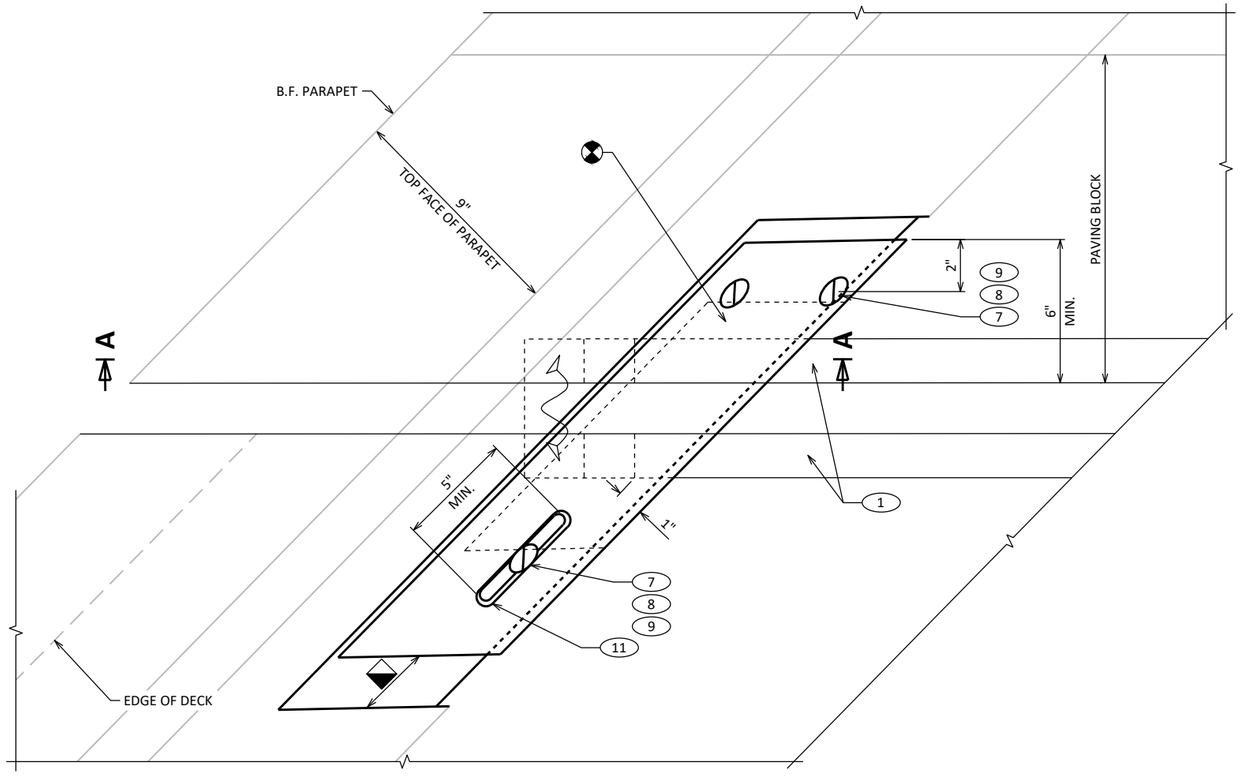
SCALE =

8

8

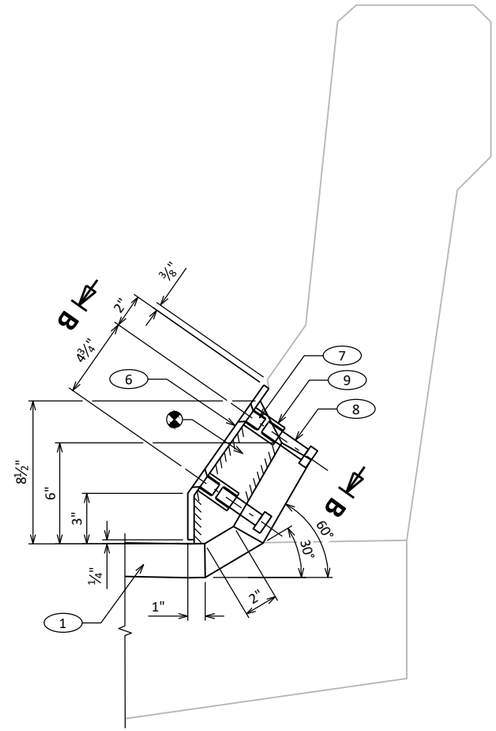
STATE PROJECT NUMBER

2310-09-71



PLAN AT PARAPET

SLOPED FACE PARAPET
WEST JOINT SHOWN, EAST JOINT SIMILAR



SECTION A-A

LOOKING WEST
SIMILAR AT EAST JOINT

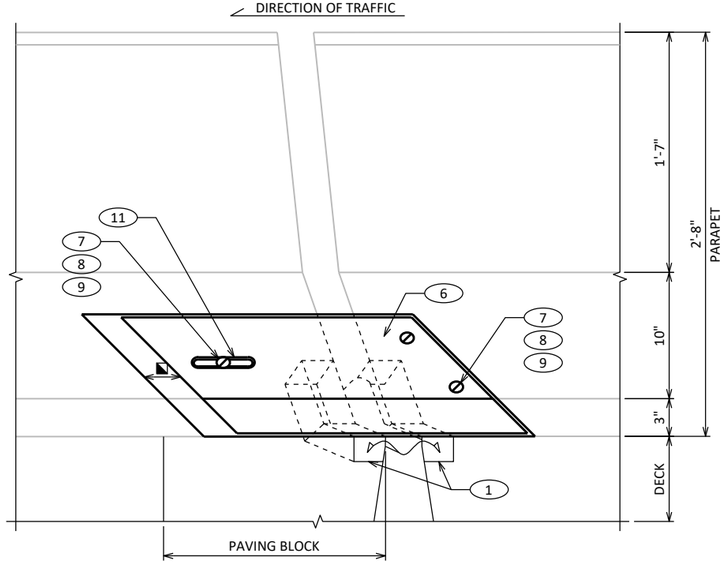
NOTE:

SEE "WEST JOINT REPLACEMENT DETAILS (1 OF 2)" SHEET FOR EXPANSION JOINT NOTES.

LEGEND:

- BLOCK OUT CONCRETE 2" EACH SIDE OF JOINT OPENING.
- JOINT OPENING DIMENSION ALONG SKEW PLUS ½"
- (1) NEOPRENE STRIP SEAL (4-INCH) AND STEEL EXTRUSIONS. JOINT OPENINGS GIVEN NORMAL TO JOINT. SET JOINT OPENING TO 1 ¾".
- (2) STUDS ⅝" DIA. X 6 ⅜" LONG AT 6" ALTERNATE CENTERS. WELD TO EXTRUSIONS AND BEND AS SHOWN AFTER WELDING.
- (6) GALVANIZED PLATE ⅜" X 10" X 3'-0" WITH HOLES FOR NO. 7.
- (7) ¾" DIA. x 1 ½" STAINLESS STEEL SOCKET FLAT HEAD SCREWS WITH ANTI-SEIZE LUBRICANT. PLACE IN COUNTERSUNK HOLE. RECESS 1/16" BELOW PLATE SURFACE.
- (8) ¾" DIA. x 4" GALVANIZED HEX HEAD BOLT, BEND 45°.
- (9) ¾" DIA. x 2 ¼" GALVANIZED THREADED COUPLING.
- (11) 1" x 5" SLOTTED COUNTERSUNK HOLE FOR NO. 7. PLACE SLOT PARALLEL TO DIRECTION OF MOVEMENT.

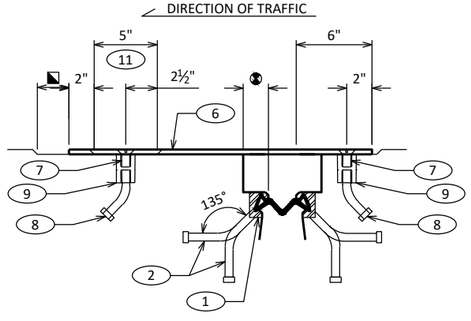
DIRECTION OF TRAFFIC



VIEW OF PARAPET PLATE FROM ROADWAY

SLOPED FACE PARAPET
WEST JOINT SHOWN, EAST JOINT SIMILAR

DIRECTION OF TRAFFIC



SECTION B-B

TYP. UNLESS NOTED OTHERWISE

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-66-102

DRAWN BY LTK | PLANS CK'D AA

STRIP SEAL COVER PLATE DETAILS: PARAPET

SHEET 13 OF 14

491

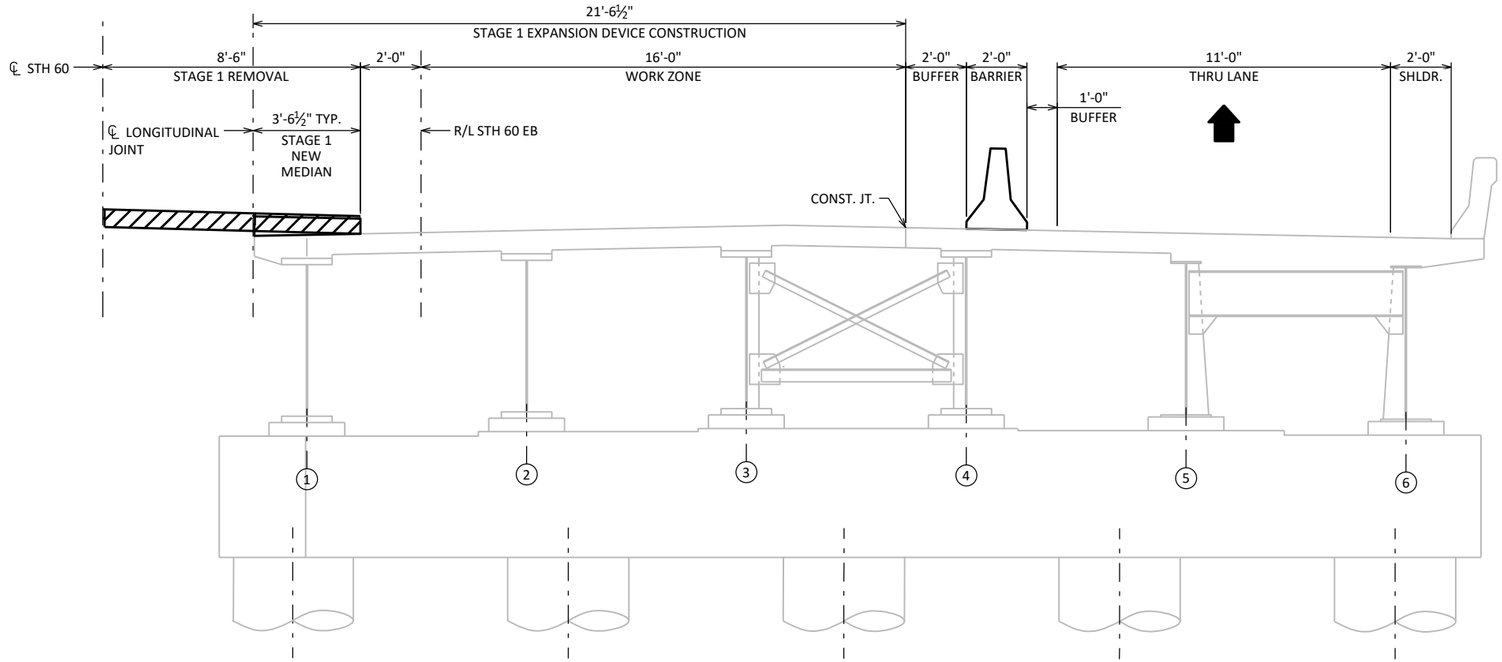
SCALE =

8

8

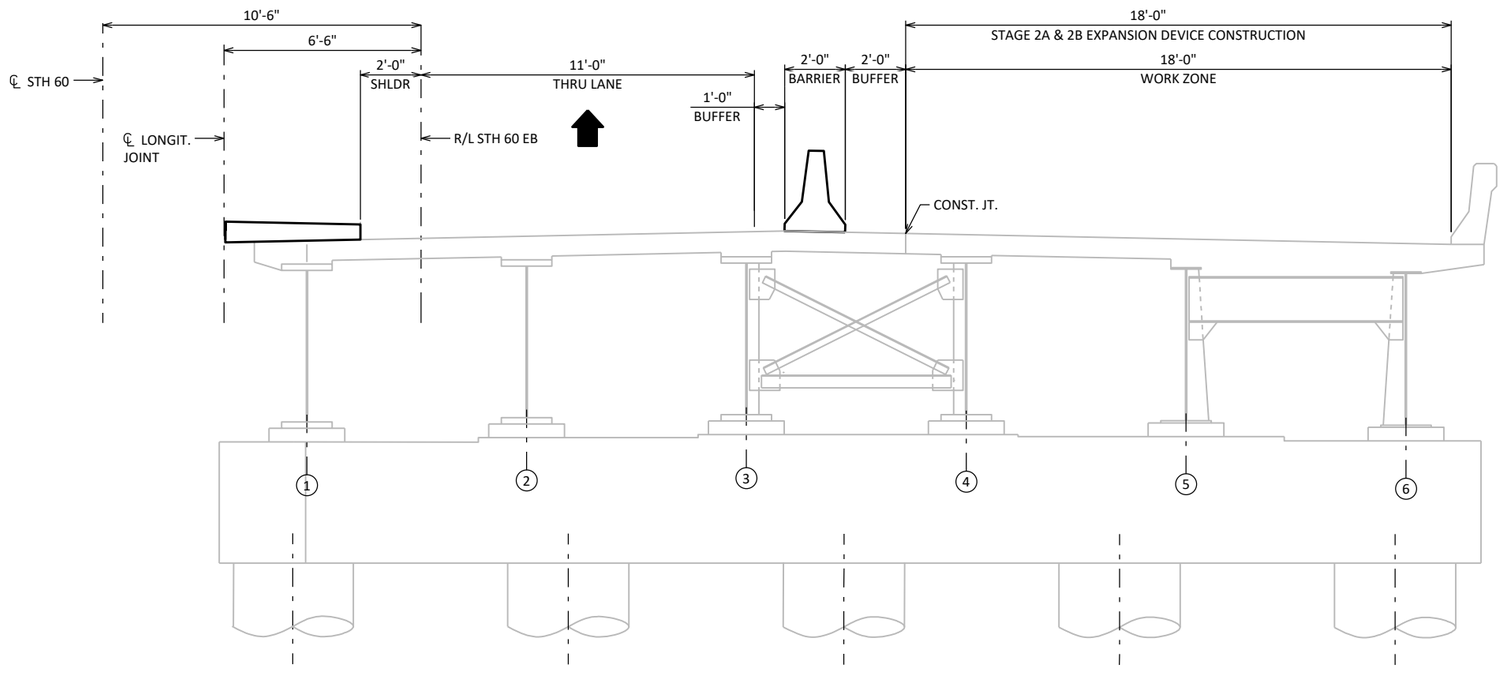
STATE PROJECT NUMBER

2310-09-71



STAGE 1 CONSTRUCTION SECTION - REMOVAL & CONSTRUCTION

LOOKING EAST



STAGE 2A & 2B CONSTRUCTION SECTION - REMOVAL & CONSTRUCTION

LOOKING EAST

NOTES

FOR TRAFFIC CONTROL AND STAGE CONSTRUCTION DETAILS, SEE ROADWAY PLANS. DO NOT PIN TEMPORARY BARRIER TO BRIDGE DECK.

LEGEND

(X) GIRDER NUMBER

REMOVE EXISTING MEDIAN

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-66-102

DRAWN BY LTK | PLANS CK'D JRS

STAGE 1 & 2 CONSTRUCTION SECTIONS

SHEET 14 OF 14

492

SCALE = 5

8

8

STATE PROJECT NUMBER

2310-09-71

DESIGN DATA

LIVE LOAD (WIDENING):

DESIGN LOADING: HL-93
INVENTORY RATING FACTOR: RF = 1.60
OPERATING RATING FACTOR: RF = 2.10
WISCONSIN STANDARD PERMIT VEHICLE (WIS-SPV): 250 (KIPS)

STRUCTURE WIDENING IS DESIGNED FOR A FUTURE WEARING SURFACE OF 20 PSF.

LIVE LOAD (EXISTING):

DESIGN LOADING: HS-20
INVENTORY RATING FACTOR: HS = 24
OPERATING RATING FACTOR: HS = 40
WISCONSIN STANDARD PERMIT VEHICLE (WIS-SPV): 250 (KIPS)

STRUCTURE WIDENING IS DESIGNED FOR A FUTURE WEARING SURFACE OF 20 PSF.

MATERIAL PROPERTIES:

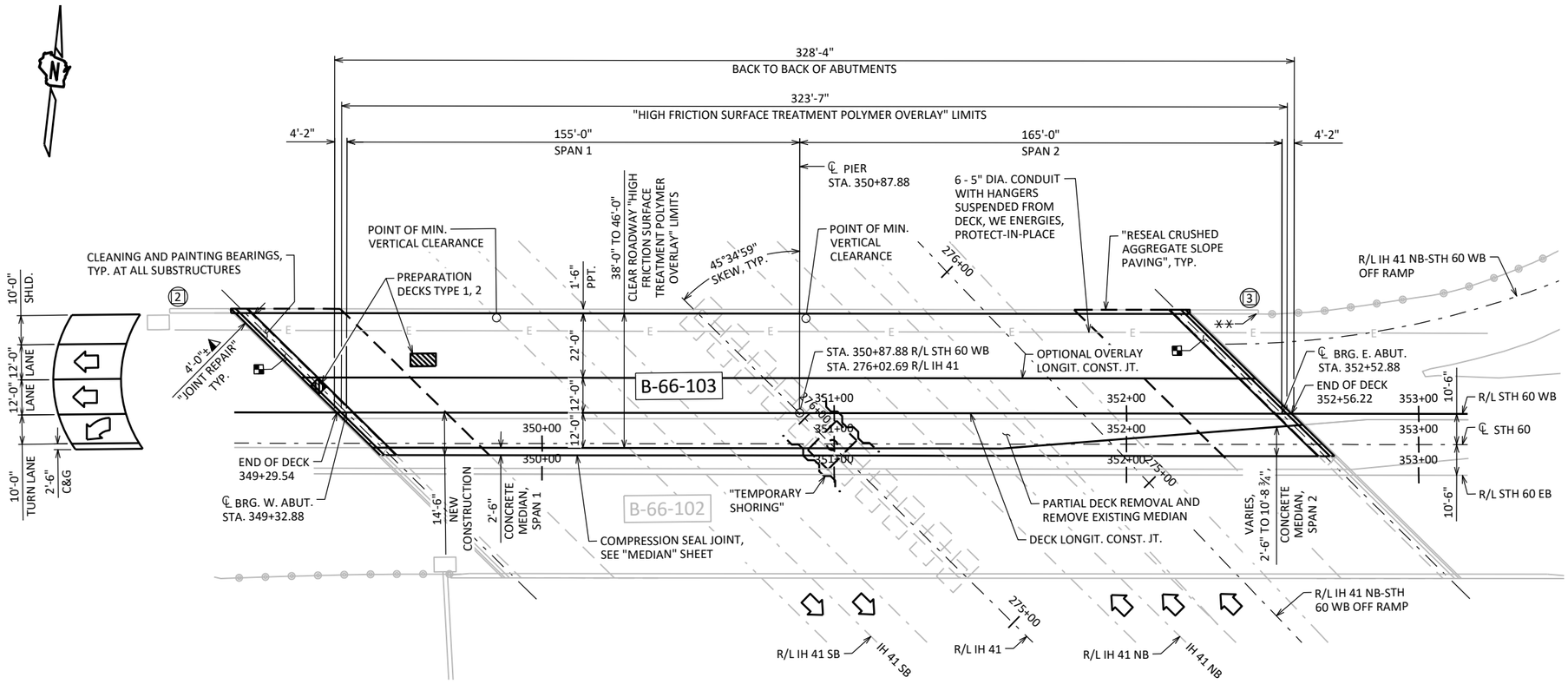
CONCRETE MASONRY:
- DECK AND MEDIAN — f'_c = 4,000 PSI
- DECK REPAIR — f'_c = 4,000 PSI
- ALL OTHER — f'_c = 3,500 PSI

BAR STEEL REINFORCEMENT:
- HIGH STRENGTH, GRADE 60 — f_y = 60,000 PSI

HIGH STRENGTH STRUCTURAL STEEL:
- ASTM A709 GRADE 50 — f_y = 50,000 PSI

STRUCTURAL CARBON STEEL:
- ASTM A709 GRADE 36 — f_y = 36,000 PSI

MICROPILES:
- GROUT AASHTO T106/ASTM C109 — f'_c = 2,000 PSI (3 DAY), f'_c = 4,000 PSI (28 DAY)
- CASING API 5 CT GRADE N80 — f_y = 80,000 PSI
- PLATES - ASTM A572 GRADE 50 — f_y = 50,000 PSI
- THREADED BAR, ASTM A615 — f_y = 75,000 PSI



PLAN

2-SPAN CONTINUOUS STEEL GIRDER - WIDENING, PAINTING, AND POLYMER OVERLAY

FOUNDATION DATA

PIER WIDENING TO BE SUPPORTED ON 9 ⅝" DIA. MICROPILES PROVIDING A FACTORED DESIGN LOAD OF 120 KIPS. ESTIMATED MICROPILE LENGTH OF 65'-0", AS MEASURED FROM BOTTOM OF FOOTING.

TRAFFIC DATA

FEATURE ON: STH 60

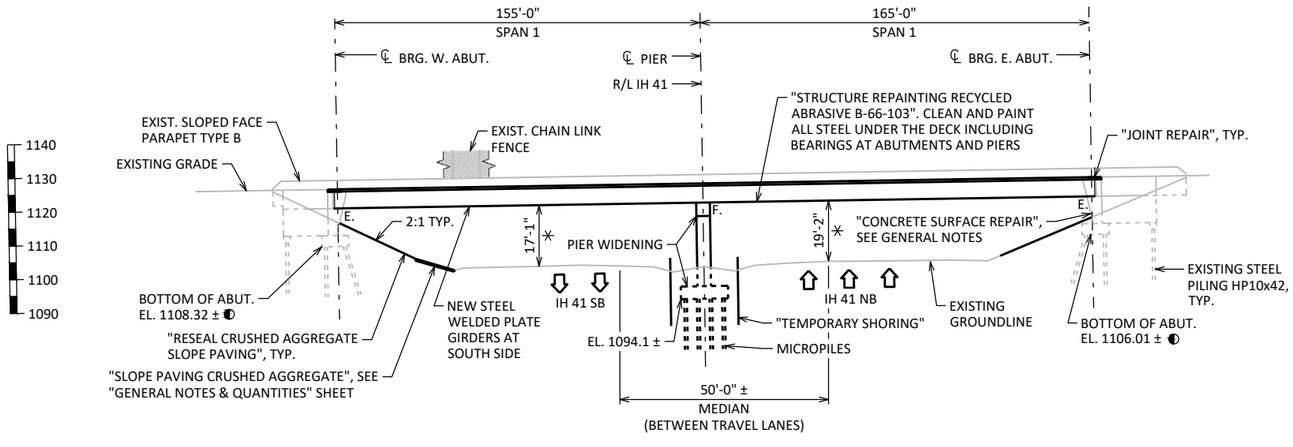
A.A.D.T = 22,630 BI-DIRECTIONAL (2026)
A.A.D.T = 23,830 BI-DIRECTIONAL (2046)
R.D.S. = 55 MPH

FEATURE UNDER: IH 41

A.A.D.T. = 40,615 (2019)
R.D.S. = 75 MPH

LIST OF DRAWINGS:

1. GENERAL PLAN & ELEVATION
2. GENERAL NOTES & QUANTITIES
3. CROSS SECTION & PROFILE
4. DECK WIDENING
5. MEDIAN REPLACEMENT
6. BILL OF BARS: DECK WIDENING & MEDIAN
7. WEST JOINT REMOVAL DETAILS (1 OF 2)
8. WEST JOINT REMOVAL DETAILS (2 OF 2)
9. WEST JOINT REPLACEMENT DETAILS (1 OF 2)
10. WEST JOINT REPLACEMENT DETAILS (2 OF 2)
11. BILL OF BARS: JOINTS
12. STRIP SEAL EXPANSION JOINT DETAILS
13. STRIP SEAL COVER PLATE DETAILS: MEDIAN
14. STRIP SEAL COVER PLATE DETAILS: PARAPET
15. FRAMING PLAN
16. EXISTING GIRDER 6
17. WIDENING GIRDER 7
18. WIDENING GIRDER 7 DETAILS
19. BEARINGS
20. ABUTMENT G7 BEARING LAYOUT
21. PIER WIDENING LAYOUT
22. PIER WIDENING REINFORCEMENT
23. BILL OF BARS: PIER WIDENING
24. MICROPILES
25. STAGE 1 CONSTRUCTION SECTIONS
26. STAGE 2 CONSTRUCTION SECTIONS
27. ORIGINAL SUBSURFACE EXPLORATION



ELEVATION

NORMAL TO IH 41
(LOOKING NORTHWEST)

SCOPE OF WORK B-66-103:

- PARTIAL DECK REMOVAL & WIDENING
- MEDIAN REMOVAL & REPLACEMENT
- PIER WIDENING
- NEW GIRDER LINE
- REPAINT STEEL
- CONCRETE SURFACE REPAIRS
- EXPANSION JOINT REPLACEMENT
- HFST POLYMER OVERLAY
- SLOPE PAVING WORK
- DECK PATCHING

LEGEND:

- ▪ PRESERVE AND PROTECT EXISTING STRIP SEAL EXPANSION JOINT BEFORE PLACING POLYMER OVERLAY.
- ⚹ VERTICAL CLEARANCE MEASURED WITH 2023 FIELD SURVEY.
- ⚹⚹ LOCATION OF NEW GUARDRAIL ATTACHMENT. EXISTING ANCHOR HOLES IN RAIL TO BE REUSED. SEE ROADWAY PLANS.
- ◭ DIMENSION GIVEN NORMAL TO ℄ SUBSTRUCTURE
- ◐ ELEVATIONS SHOWN ARE BASED ON EXISTING PLANS, 1969
- ⓝ INDICATES WING NUMBER

NO.	DATE	REVISION	BY

WISCONSIN PROFESSIONAL ENGINEER
AIHAM ALSKIF
E-49460
MADISON, WI
Aiham Alskif
11/11/2025

STRUCTURE DESIGN CONTACTS:

BUREAU OF STRUCTURES:
AARON BONK (608) 261-0261
CONSULTANT:
JASON SADOWSKI (414) 751-9986

Michael Baker INTERNATIONAL
MICHAEL BAKER INTERNATIONAL
250 E. WISCONSIN STREET
SUITE 1725
MILWAUKEE, WI 53202

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORATION

ACCEPTED JLR 11/12/25
CHIEF STRUCTURES DESIGN ENGINEER — DATE

STRUCTURE B-66-103

STH 60 WB OVER IH 41

COUNTY	TOWN
WASHINGTON	POLK

DESIGN SPEC.
REHABILITATION N/A

DESIGNED BY	DESIGNED CK'D	DRAWN BY	PLANS CK'D
AA/LTK	SRA /AA	LTK	AA

GENERAL PLAN & ELEVATION

SHEET 1 OF 27
493

SCALE = 1:45

I.D. 2310-09-01

DATE: 07/01/2025

STATE PROJECT NUMBER

2310-09-71

GENERAL NOTES

THE EXISTING STRUCTURE B-66-103, IS A 2-SPAN STEEL GIRDER STRUCTURE WITH AN OUT-TO-OUT WIDTH OF 46'-0" AND AN END-TO-END OF DECK LENGTH OF 326'-8".

DRAWINGS SHALL NOT BE SCALED.

DIMENSIONS ARE BASED ON EXISTING PLANS.

ALL STATIONS AND ELEVATIONS ARE IN FEET.

BEVEL ALL EXPOSED EDGES OF CONCRETE ¾" UNLESS NOTED OTHERWISE.

ALL CONCRETE REMOVAL SHALL BE DEFINED BY A 1" DEEP SAW CUT, UNLESS SPECIFIED OTHERWISE.

REMOVE THE EXISTING MEDIAN AND DECK UNDER BID ITEM "REMOVING STRUCTURE B-66-103". USE CAUTION DURING REMOVAL TO AVOID DAMAGE TO THE PORTIONS OF THE EXISTING DECK TO REMAIN.

PREPARATION DECKS TYPE I, AND PREPARATION DECKS TYPE 2 REPAIR AREAS SHALL BE DETERMINED BY THE ENGINEER. DECK PREPARATION REPAIRS SHALL BE FILLED WITH "CONCRETE MASONRY DECK REPAIR".

DECK REPAIRS SHALL BE FILLED PRIOR TO OVERLAY PLACEMENT. DECK REPAIRS USING A PORTLAND CEMENT BASED CONCRETE REQUIRES A MINIMUM CURE TIME OF 28 DAYS PRIOR TO OVERLAY PLACEMENT.

SHOT BLASTING, DECK SURFACE PREPARATIONS, AND TRANSITIONAL AREAS ARE INCLUDED IN THE BID ITEM "HIGH FRICTION SURFACE TREATMENT POLYMER OVERLAY".

APPLY HIGH FRICTION SURFACE TREATMENT POLYMER OVERLAY AT LEAST 28 DAYS AFTER DECK PLACEMENT AND CONCRETE DECK PATCHING WORK IS COMPLETED.

REUSE EXISTING SHEAR CONNECTORS AND STRUCTURAL STEEL. EXERCISE CAUTION NOT TO DAMAGE EXISTING SHEAR CONNECTORS OR THE STRUCTURAL STEEL FRAMING IN THE PROCESS OF DECK REMOVAL. REPAIR OR REPLACE ANY STEEL COMPONENTS DAMAGED TO THE SATISFACTION OF THE ENGINEER AT NO ADDITIONAL COST TO THE DEPARTMENT.

ROUGHEN SURFACE OF CONCRETE ¼" DEEP MINIMUM AT ALL AREAS WHERE NEW CONCRETE CONTACTS EXISTING CONCRETE.

THE FIRST DIGIT OF A THREE DIGIT BAR MARK AND THE FIRST TWO DIGITS OF A FOUR DIGIT BAR MARK SIGNIFY THE BAR SIZE.

BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2" CLEAR UNLESS SHOWN OR NOTED.

CLEAN, STRAIGHTEN, AND EXTEND EXISTING BAR STEEL REINFORCEMENT 24 BAR DIAMETERS INTO NEW CONSTRUCTION UNLESS SPECIFIED OTHERWISE.

STRIP SEAL EXPANSION JOINT ASSEMBLIES, INCLUDING ANCHOR STUDS, COVER PLATES AND HARDWARE SHALL BE PAID FOR AT THE LINEAL FOOT PRICE BID FOR "EXPANSION DEVICE".

REMOVING AND RESETTING FENCE WITHIN JOINT REPLACEMENT LIMITS IS INCIDENTAL TO "JOINT REPAIR".

IF EXISTING SALVAGED BAR STEEL REINFORCEMENT IS SEVERELY CORRODED OR DAMAGED DURING CONCRETE REMOVAL, REPLACE WITH EPOXY ANCHORED BARS OF THE SAME SIZE. EMBED 1'-0" INTO EXISTING CONCRETE. WORK TO BE PAID UNDER ITEM, "REMOVING STRUCTURE B-66-103".

GENERAL NOTES CONT.

APPLY BRIDGE SEAT PROTECTION, PER SECTION 502.3.12 OF THE STANDARD SPECIFICATIONS, TO THE TOP SURFACES OF BOTH ABUTMENTS BELOW EXPANSION DEVICES. POWERWASH AND ADEQUATELY DRY SURFACES BEFORE APPLICATION. WORK INCIDENTAL TO BID ITEM "CONCRETE MASONRY BRIDGES".

BEARING AND EXPANSION JOINT ASSEMBLIES SHALL BE FABRICATED FROM ASTM A709 GRADE 50 MATERIAL (Fy=50 KSI) AND SHALL BE HOT-DIP GALVANIZED AFTER FABRICATION IN ACCORDANCE WITH ASTM A123 (AASHTO MIII).

EXISTING ABUTMENT CONCRETE TO BE REMOVED TO LEVEL FOR NEW GIRDER BEARING. COST IS INCIDENTAL TO "REMOVING STRUCTURE B-66-103".

THE HAUNCH CONCRETE QUANTITY IS BASED ON THE AVERAGE HAUNCH SHOWN ON THE "WIDENING GIRDER 7" SHEET.

ALL FIELD CONNECTIONS SHALL BE MADE WITH A ¾" DIAMETER FRICTION TYPE HIGH-TENSILE STRENGTH BOLTS UNLESS SHOWN OR NOTED OTHERWISE.

CLEAN AND PAINT ALL EXPOSED STEEL SURFACES UNDERNEATH THE BRIDGE DECK. THE SURFACES INCLUDE GIRDERS, DIAPHRAGMS, WEB STIFFENERS, SPLICE PLATES, AND PIER AND ABUTMENT BEARINGS. THE COLOR OF THE FINISH TOP COAT SHALL BE BLUE, SHERWIN WILLIAMS SW6523, OR EQUAL COLOR APPROVED BY THE ENGINEER.

CLEAN AND PAINTING BEARINGS IS INCIDENTAL TO "STRUCTURE REPAINTING RECYCLED ABRASIVE B-66-103".

FOR STAGING OF IH 41 PAINT WORK, SEE ROADWAY PLANS.

PROTECTIVE SURFACE TREATMENT SHALL BE APPLIED TO THE ENTIRE TOP AND VERTICAL SURFACES OF THE NEW MEDIAN.

PERFORM "CONCRETE SURFACE REPAIR" AT THE ABUTMENTS AND AS DIRECTED BY THE FIELD ENGINEER. QUANTITIES SHOWN ON THE PLANS ARE APPROXIMATE.

THE EXISTING GROUND LINE SHALL BE USED AS THE UPPER LIMITS OF EXCAVATION.

REMOVE EXISTING FORMWORK AT THE NORTH EDGE OF DECK NEAR THE EAST ABUTMENT. COST INCIDENTAL TO "REMOVING STRUCTURE B-66-103".

ALL WELDING OF NEW GIRDER SHALL BE IN ACCORDANCE WITH AASHTO D1.5 BRIDGE WELDING CODE.

OPTIONAL WELDING SHOP SPLICES MAY BE USED FOR NEW GIRDER PLATES OVER 60'-0" LONG. IF USED, THE LOCATION OF THE SPLICE SHALL BE SHOWN ON SHOP DRAWINGS AND WILL BE SUBJECT TO THE APPROVAL OF THE STRUCTURE DESIGN ENGINEER.

TEMPORARY SUPPORTS AND FALSEWORK (INCLUDING CANTILEVER BRACKETS) SHALL NOT BE ATTACHED TO OR BEAR ON GIRDER WEBS, EXCEPT AT WEB STIFFENER LOCATIONS.

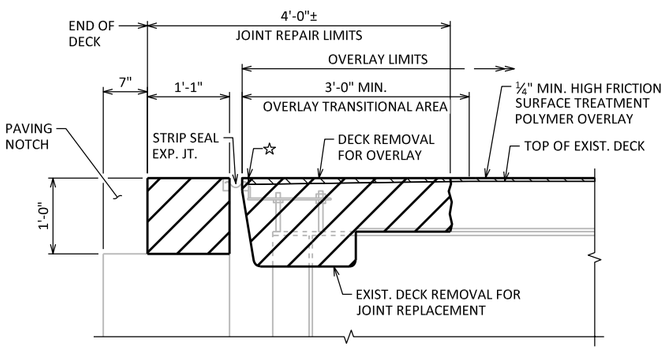
SHOT BLASTING, DECK SURFACE PREPARATIONS, AND TRANSITIONAL AREAS ARE INCLUDED IN THE BID ITEM "HIGH FRICTION SURFACE TREATMENT POLYMER OVERLAY".

ALL CONNECTIONS SHALL BE FABRICATED AND ASSEMBLED AS SLIP-CRITICAL CONNECTIONS. DESIGN ASSUME A CLASS B SURFACE.

TOTAL ESTIMATED QUANTITIES

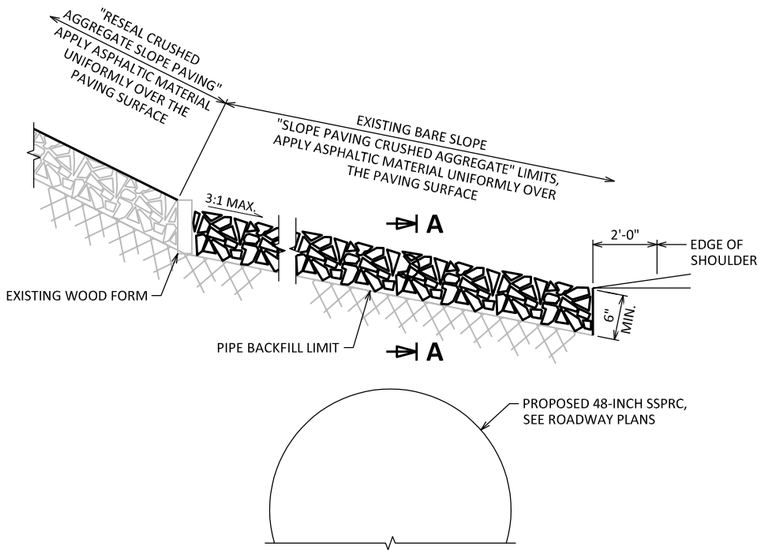
ITEM NUMBER	ITEM DESCRIPTION	UNIT	W. ABUT.	E. ABUT.	PIER	SUPER.	TOTAL
203.0220	REMOVING STRUCTURE B-66-103	EACH	---	---	---	1	1
206.1001	EXCAVATION FOR STRUCTURES BRIDGES B-66-103	EACH	---	---	1	---	1
502.0100	CONCRETE MASONRY BRIDGES	CY	---	---	35	178	213
502.2000	COMPRESSION JOINT SEALER PREFORMED ELASTOMERIC (2 1/4-INCH)	LF	---	---	---	324	324
502.3101	EXPANSION DEVICE	LF	---	---	---	140	140
502.3200	PROTECTIVE SURFACE TREATMENT	SY	---	---	---	160	160
502.3205	PIGMENTED SURFACE SEALER RESEAL	SY	---	---	---	127	127
502.3210	PIGMENTED SURFACE SEALER	SY	---	---	---	6	6
502.4205	ADHESIVE ANCHORS NO. 5 BAR	EACH	74	74	---	---	148
502.4207	ADHESIVE ANCHORS NO. 7 BAR	EACH	---	---	24	---	24
505.0400	BAR STEEL REINFORCEMENT HS STRUCTURES	LB	---	---	1,090	---	1,090
505.0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	LB	---	---	3,060	40,090	43,150
506.0105	STRUCTURAL STEEL CARBON	LB	---	---	---	8,810	8,810
506.0605	STRUCTURAL STEEL HS	LB	---	---	---	99,640	99,640
506.3015	WELDED STUD SHEAR CONNECTORS 7/8X6-INCH	EACH	---	---	---	600	600
506.5000	BEARING ASSEMBLIES FIXED B-66-103	EACH	---	---	1	---	1
506.6000	BEARING ASSEMBLIES EXPANSION B-66-103	EACH	1	1	---	---	2
509.0301	PREPARATION DECKS TYPE 1	SY	---	---	---	3	3
509.0302	PREPARATION DECKS TYPE 2	SY	---	---	---	2	2
509.0310.S	SAWING PAVEMENT DECK PREPARATION AREAS	LF	---	---	---	30	30
509.1000	JOINT REPAIR	SY	---	---	---	62	62
509.1500	CONCRETE SURFACE REPAIR	SF	6	6	---	---	12
509.2100.S	CONCRETE MASONRY DECK REPAIR	CY	---	---	---	1	1
509.9015.S	REMOVING POLYMER OVERLAY B-66-103	SY	---	---	---	1,223	1,223
511.1200	TEMPORARY SHORING B-66-103	SF	---	---	150	---	150
517.0601	PAINTING EPOXY SYSTEM B-66-103	EACH	---	---	---	1	1
517.0901.S	PREPARATION AND COATING OF TOP FLANGES B-66-103	EACH	---	---	---	1	1
517.1801.S	STRUCTURE REPAINTING RECYCLED ABRASIVE B-66-103	EACH	---	---	---	1	1
517.4501.S	NEGATIVE PRESSURE CONTAINMENT AND COLLECTION OF WASTE MATERIALS B-66-103	EACH	---	---	---	1	1
517.6001.S	PORTABLE DECONTAMINATION FACILITY	EACH	---	---	---	1	1
604.0500	SLOPE PAVING CRUSHED AGGREGATE	SY	133	---	---	---	133
604.9015.S	RESEAL CRUSHED AGGREGATE SLOPE PAVING	SY	160	225	---	---	385
SPV.0060	MICROPILE VERIFICATION PROOF LOAD TEST	EACH	---	---	1	---	1
SPV.0060	MICROPILE PROOF LOAD TEST	EACH	---	---	1	---	1
SPV.0090	9.625-INCH MICROPILE FOUNDATION	LF	---	---	590	---	590
SPV.0180	HIGH FRICTION SURFACE TREATMENT POLYMER OVERLAY	SY	---	---	---	1,605	1,605
	NON-BID ITEMS						
	BRIDGE SEAT PROTECTION						

NOTE: SLOPE PAVING, CONCRETE SURFACE REPAIRS, AND DECK PREPARATION QUANTITIES ARE APPROXIMATE AND WILL NEED TO BE VERIFIED IN THE FIELD BY THE ENGINEER.



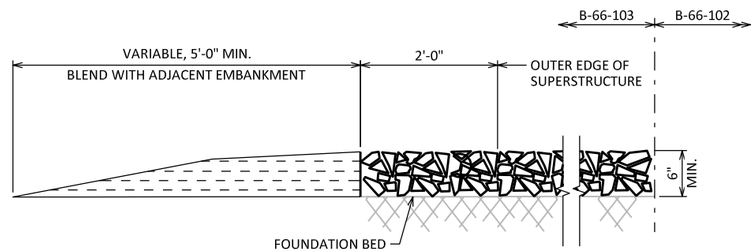
SECTION THRU ABUTMENT TRANSITIONAL AREA OF DECK AT EXPANSION JOINT

(REMOVAL AND OVERLAY THICKNESS NOT TO SCALE)



SECTION AT NEW SLOPE PAVING CRUSHED AGGREGATE

WEST SLOPE ONLY
ROUND STONE WILL NOT BE ACCEPTED



SECTION A-A

LEGEND

☆ ENTIRE DECK TO BE REMOVED WITHIN JOINT REPAIR LIMITS AT THE EXPANSION JOINT. REDUCE THICKNESS ¼" AT THE JOINT TO ACCOUNT FOR THE TRANSITION.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-66-103

DRAWN BY LTK | PLANS CK'D AA

GENERAL NOTES & QUANTITIES

SHEET 2 OF 27
494

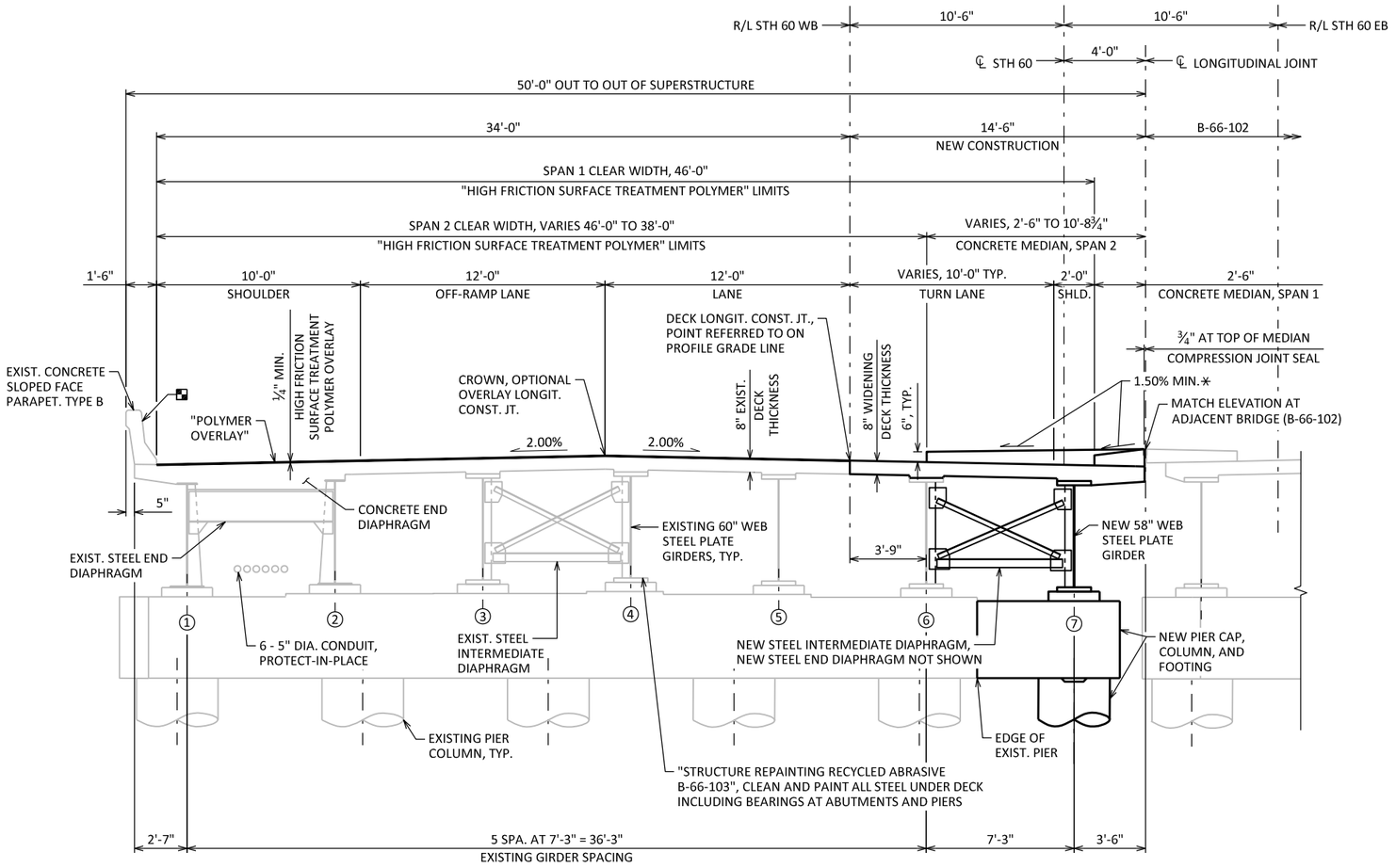
SCALE = N/A

8

8

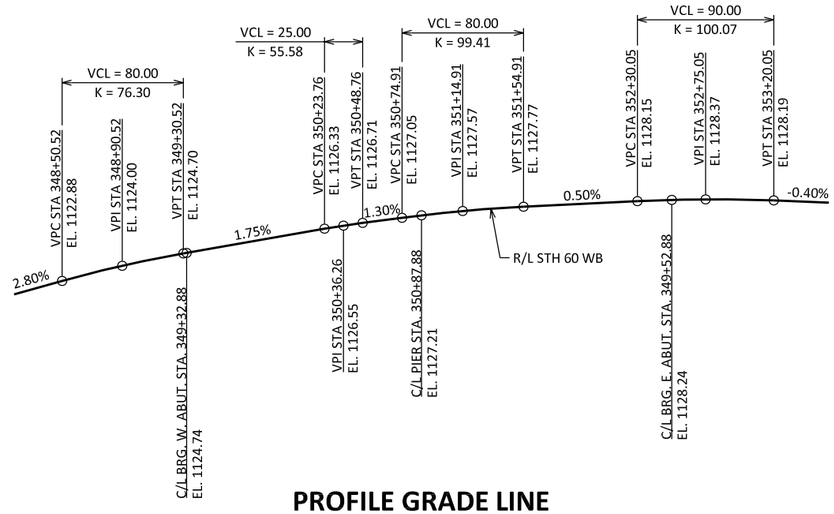
STATE PROJECT NUMBER

2310-09-71



CROSS SECTION

LOOKING EAST



PROFILE GRADE LINE
R/L STH 60 WB

BENCH MARKS

NO.	NORTHING (N)	EASTING (E)	DESCRIPTION	ELEV.
95981	148137.240	344143.463	BM DISK HWY 60 BRIDGE SW	1128.168
96234	148241.906	343889.750	CP FENO MONUMENT	1118.296

NOTE: FOR BENCHMARK LOCATIONS IN PLAN VIEW, SEE ROADWAY PLANS

TOP OF DECK WIDENING ELEVATIONS

	SPAN 1											C/L Pier	SPAN 2											
	CL. BRG. W. ABUT.	0.1L	0.2L	0.3L	0.4L	0.5L	0.6L	C/L F.S. #1	0.7L	0.8L	0.9L		0.1L	0.2L	0.3L	C/L F.S. #2	0.4L	0.5L	0.6L	0.7L	0.8L	0.9L	CL. BRG. E. ABUT.
R/L STH 60 WB PGL	1124.74	1125.01	1125.28	1125.55	1125.82	1126.10	1126.37	1126.56	1126.61	1126.82	1127.02	1127.21	1127.39	1127.54	1127.67	1127.67	1127.77	1127.85	1127.93	1128.01	1128.09	1128.17	1128.23
C/L GIRDER 6	1124.73	1125.00	1125.27	1125.54	1125.82	1126.09	1126.36	1126.54	1126.59	1126.79	1126.99	1127.18	1127.35	1127.50	1127.62	1127.63	1127.71	1127.79	1127.88	1127.96	1128.04	1128.12	1128.17
C/L STH 60	1124.72	1124.99	1125.26	1125.53	1125.80	1126.07	1126.33	1126.50	1126.55	1126.75	1126.95	1127.12	1127.28	1127.42	1127.53	1127.53	1127.61	1127.69	1127.77	1127.86	1127.94	1128.01	1128.04
C/L GIRDER 7	1124.72	1124.99	1125.26	1125.53	1125.80	1126.07	1126.33	1126.50	1126.54	1126.74	1126.94	1127.12	1127.28	1127.41	1127.52	1127.52	1127.60	1127.68	1127.77	1127.85	1127.93	1128.00	1128.04
SOUTH MEDIAN GUTTER	1124.71	1124.98	1125.26	1125.53	1125.80	1126.07	1126.32	1126.49	1126.54	1126.74	1126.93	1127.11	1127.27	1127.40	1127.50	1127.51	1127.60	1127.70	1127.80	1127.90	1128.00	1128.09	1128.16
SOUTH EDGE OF DECK	1124.71	1124.98	1125.25	1125.52	1125.79	1126.06	1126.31	1126.47	1126.52	1126.72	1126.91	1127.09	1127.24	1127.37	1127.47	1127.47	1127.55	1127.63	1127.71	1127.80	1127.88	1127.94	1127.97

LEGEND

◯ GIRDER NUMBER

✳ ADJUST CROSS-SLOPE AND MEDIAN THICKNESS AT OUTSIDE EDGE TO MATCH E.B. MEDIAN.

APPLY "PIGMENTED SURFACE SEALER" TO NEW PARAPET CONCRETE WITHIN JOINT REPAIR LIMITS. APPLY "PIGMENTED SURFACE SEALER RESEAL" TO REMAINING LENGTH OF PARAPET BETWEEN JOINT REPAIR LIMITS. FOR BOTH, APPLY TO FRONT AND TOP FACES OF PARAPET.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-66-103

DRAWN BY LTK | PLANS CK'D AA

CROSS SECTION & PROFILE

SHEET 3 OF 27

495

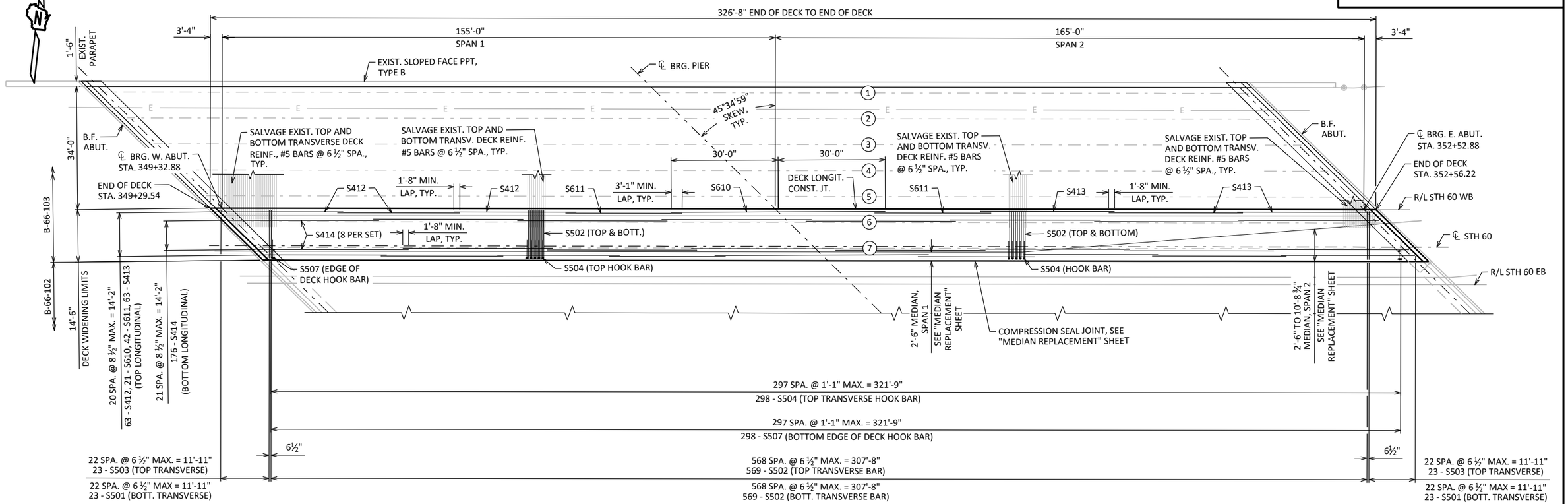
SCALE = N/A

8

8

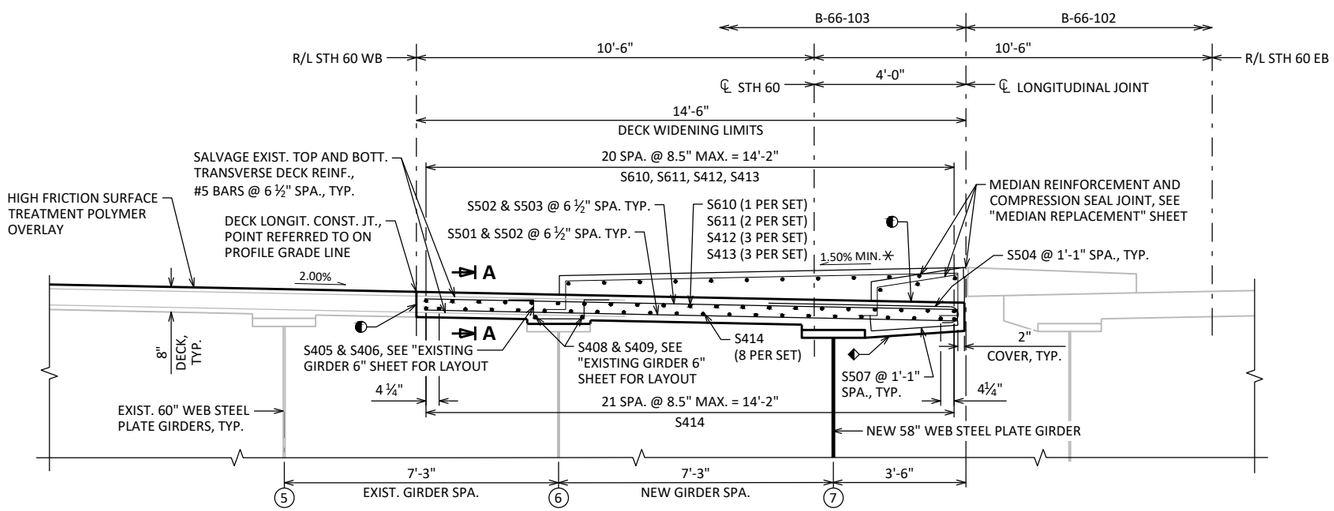
STATE PROJECT NUMBER

2310-09-71



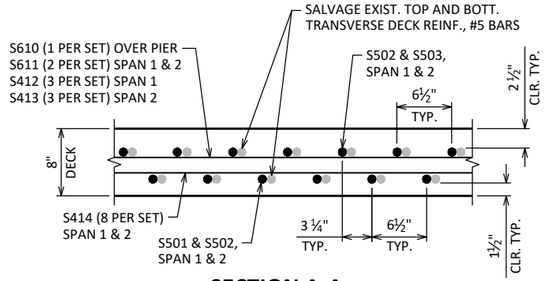
DECK WIDENING PLAN

JOINT REPLACEMENT REINFORCEMENT WITHIN THE DECK WIDENING LIMITS NOT SHOWN FOR CLARITY. SEE "WEST JOINT REPLACEMENT DETAILS (1 OF 2)" AND "WEST JOINT REPLACEMENT DETAILS (2 OF 2)" SHEETS FOR ADDITIONAL JOINT REINFORCEMENT.



TYPICAL SECTION THRU DECK WIDENING

LOOKING EAST
JOINT REPLACEMENT REINFORCEMENT WITHIN THE DECK WIDENING LIMITS NOT SHOWN FOR CLARITY. SEE "WEST JOINT REPLACEMENT DETAILS (1 OF 2)" AND "WEST JOINT REPLACEMENT DETAILS (2 OF 2)" SHEETS FOR ADDITIONAL JOINT REINFORCEMENT.
DIAPHRAGMS NOT SHOWN FOR CLARITY.



SECTION A-A

NOTES

ALL EXISTING MEDIAN CONCRETE AND REINFORCEMENT TO BE REMOVED IN CONJUNCTION WITH PARTIAL DECK REMOVAL

LEGEND

- ◯ INDICATES GIRDER NUMBER
- ◐ CONSTRUCTION JOINT, STRIKE OFF AND LEAVE ROUGH AS SHOWN
- ◆ SLOPE BOTTOM OF DECK @ EXTERIOR GIRDER TO MATCH IN WITH THE BOTTOM OF TOP FLANGE
- ✳ ADJUST CROSS-SLOPE AND MEDIAN THICKNESS AT OUTSIDE EDGE TO MATCH E.B. MEDIAN.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-66-103

DRAWN BY LTK | PLANS CK'D AA

DECK WIDENING

SHEET 4 OF 27

496

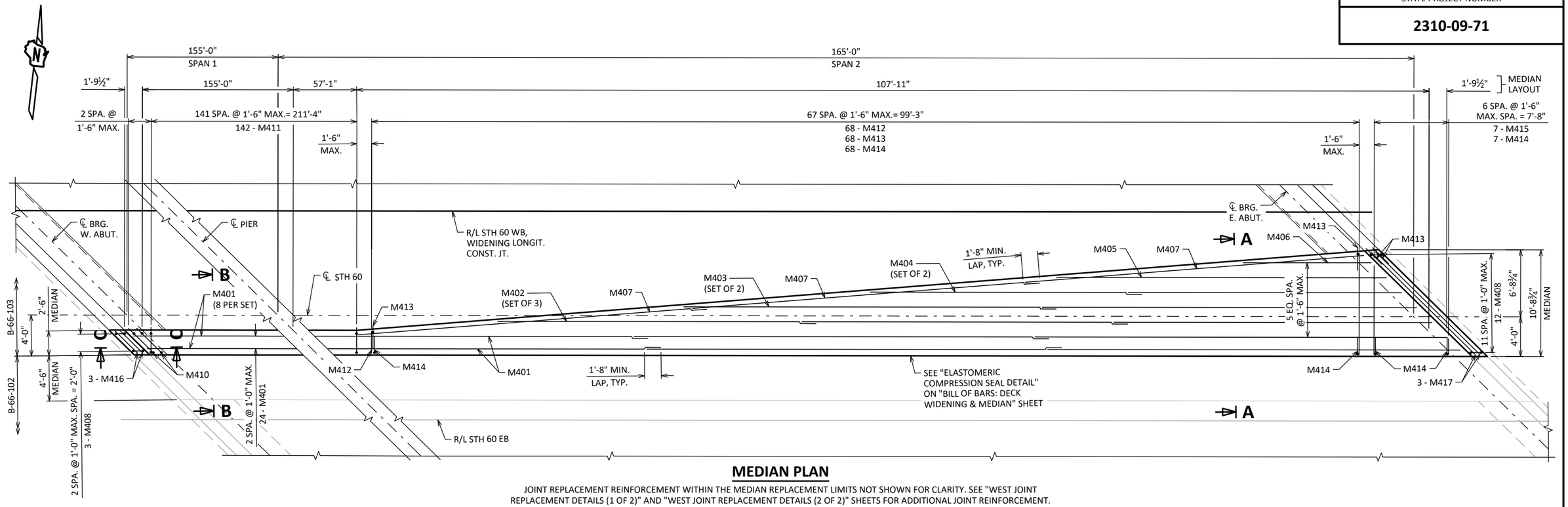
SCALE =

8

8

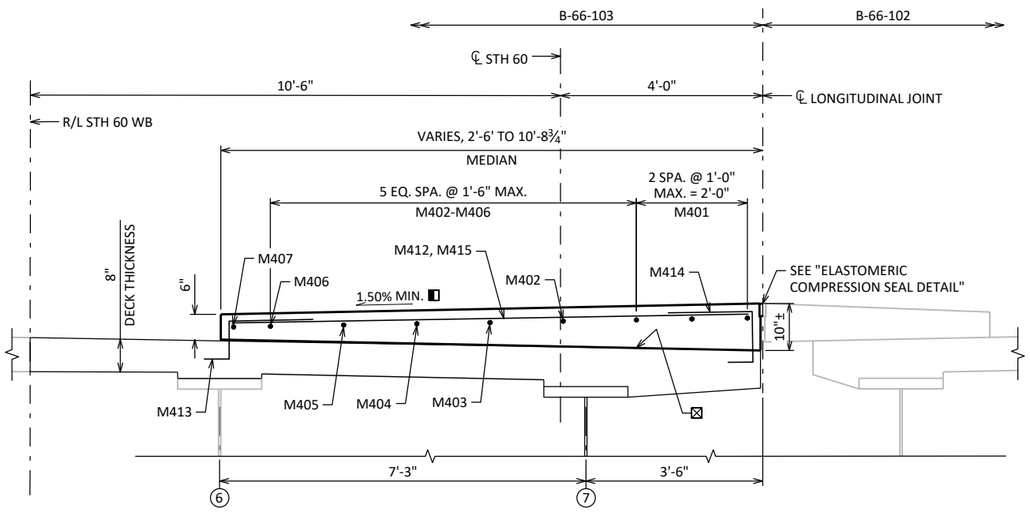
STATE PROJECT NUMBER

2310-09-71



MEDIAN PLAN

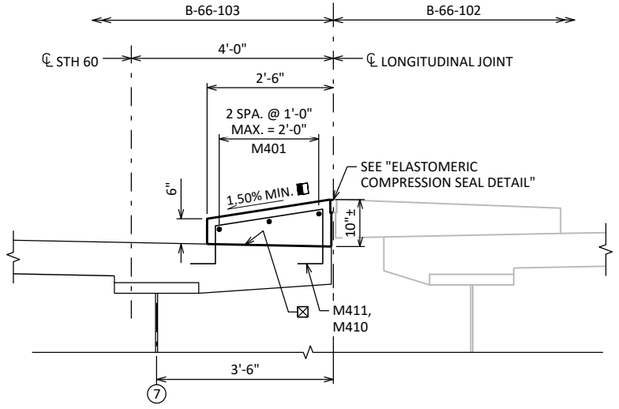
JOINT REPLACEMENT REINFORCEMENT WITHIN THE MEDIAN REPLACEMENT LIMITS NOT SHOWN FOR CLARITY. SEE "WEST JOINT REPLACEMENT DETAILS (1 OF 2)" AND "WEST JOINT REPLACEMENT DETAILS (2 OF 2)" SHEETS FOR ADDITIONAL JOINT REINFORCEMENT.



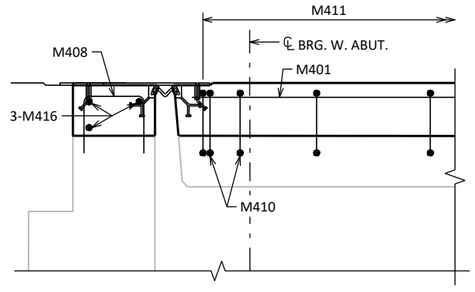
SECTION A-A

GEOMETRY FOR MEDIAN GUTTLERLINE		
LOCATION	STATION	OFFSET*
BEGIN MEDIAN @ END OF DECK	349+41.80	12.00'
C/L BRG. W. ABUTMENT	349+45.12	12.00'
C/L PIER	351+00.12	12.00'
SPAN 2 TURN LANE BEND IN MEDIAN	351+57.22	12.00'
C/L BRG. E. ABUTMENT	352+57.00	4.00'
END MEDIAN @ END OF DECK	352+60.08	3.80'

* OFFSETS GIVEN RT OF R/L STH 60 WB IN THE DIRECTION OF INCREASING STATIONING, MEASURED TO THE INSIDE FACE OF MEDIAN



SECTION B-B



SECTION C-C

MEDIAN AT WEST JOINT SHOWN, EAST JOINT SIMILAR. DECK AND JOINT REPLACEMENT REINFORCEMENT NOT SHOWN FOR CLARITY. SEE "WEST JOINT REPLACEMENT DETAILS (1 OF 2)" AND "WEST JOINT REPLACEMENT DETAILS (2 OF 2) SHEETS.

NOTE:

CLEAN ALL LOOSE MATERIAL ON THE DECK AT THE MEDIAN LOCATION PRIOR TO MEDIAN PLACEMENT USING HIGH PRESSURE WATER OR AIR, ENSURING ALL FREE-STANDING WATER IS REMOVED PRIOR TO MEDIAN PLACEMENT. NEAT CEMENT IS REQUIRED AS PER 509.3.9.2 OF THE STANDARD SPECIFICATIONS UNLESS THE MEDIAN IS POURED WITHIN 45 DAYS OF COMPLETING THE DECK WIDENING POUR.

LEGEND:

- VARIES BASED ON JOINT MANUFACTURER
- MANUFACTURER SHALL LABEL TOP OF SEAL
- CONST. JOINT-STRIKE OFF AS SHOWN AND LEAVE ROUGH. FOR DECK WIDENING POUR, MATCH BRIDGE X-SLOPE.
- INDICATES GIRDER NUMBER
- ADJUST CROSS-SLOPE AND MEDIAN THICKNESS AT OUTSIDE EDGE TO MATCH E.B. MEDIAN.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-66-103

DRAWN BY LTK | PLANS CK'D AA

MEDIAN REPLACEMENT

SHEET 5 OF 27

497

SCALE =

8

8

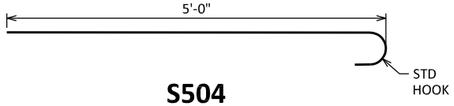
STATE PROJECT NUMBER

2310-09-71

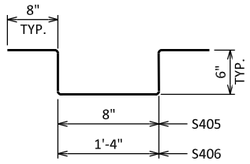
BILL OF BARS: DECK WIDENING

BAR MARK	NO. REQ'D.	LENGTH	COAT	STAINLESS STEEL	BENT	BAR SERIES	LOCATION
S501	46	8'-3"	X			X	DECK - BOTTOM TRANSVERSE, WEST & EAST END
S502	1138	14'-1"	X				DECK - TOP AND BOTTOM TRANSVERSE
S503	46	8'-4"	X			X	DECK - TOP TRANSVERSE, WEST & EAST END
S504	298	5'-8"	X		X		DECK - TOP TRANSVERSE, HOOKED
S405	218	2'-8"	X		X		DECK - GIRDER 6 HAT BAR
S406	27	3'-4"	X		X		DECK - GIRDER 6 HAT BAR
S507	298	3'-3"	X		X		DECK - TRANSVERSE, OVERHANG
S408	8	31'-6"	X				GIRDER HAUNCH - LONGITUDINAL, SPAN 1
S409	8	33'-4"	X				GIRDER HAUNCH - LONGITUDINAL, SPAN 2
S610	21	60'-0"	X				DECK - TOP LONGITUDINAL, AT PIER
S611	42	32'-0"	X				DECK - TOP LONGITUDINAL, SPAN 1 & 2
S412	63	34'-4"	X				DECK - TOP LONGITUDINAL, SPAN 1
S413	63	37'-8"	X				DECK - TOP LONGITUDINAL, SPAN 2
S414	176	41'-11"	X				DECK - BOTTOM LONGITUDINAL

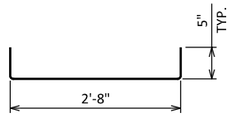
NOTE: LENGTH SHOWN FOR ANY BAR IN A BAR SERIES IS AN AVERAGE LENGTH AND SHOULD ONLY BE USED FOR BAR WEIGHT CALCULATIONS. SEE BAR SERIES TABLE FOR ACTUAL LENGTHS.



S504



S405 & S406



S507

BAR SERIES TABLE: DECK WIDENING

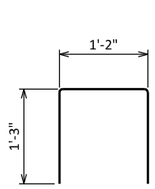
MARK	NO. REQ'D.	LENGTH
S501	2 SERIES OF 23	2'-3" TO 14'-2"
S503	2 SERIES OF 23	2'-6" TO 14'-2"

BUNDLE AND TAG EACH SERIES SEPARATELY.

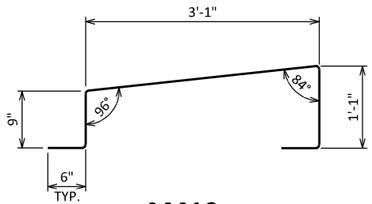
BILL OF BARS: MEDIAN

BAR MARK	NO. REQ'D.	LENGTH	COAT	STAINLESS STEEL	BENT	BAR SERIES	LOCATION
M401	24	41'-11"	X				MEDIAN - LONGITUDINAL, SPAN 1 & SPAN 2
M402	3	32'-10"	X				MEDIAN - LONGITUDINAL, SPAN 2
M403	2	38'-3"	X				MEDIAN - LONGITUDINAL, SPAN 2
M404	2	28'-2"	X				MEDIAN - LONGITUDINAL, SPAN 2
M405	1	34'-3"	X				MEDIAN - LONGITUDINAL, SPAN 2
M406	1	13'-11"	X				MEDIAN - LONGITUDINAL, SPAN 2
M407	3	35'-1"	X				MEDIAN - LONGITUDINAL, SPAN 2
M408	15	3'-6"	X		X		MEDIAN - PAVING BLOCK, U-BAR
M410	2	5'-6"	X		X		MEDIAN - SPAN 1, TRANSVERSE
M411	142	4'-8"	X		X		MEDIAN - TRANSVERSE, SPAN 1 & SPAN 2
M412	68	6'-3"	X			X	MEDIAN - TRANSVERSE, STRAIGHT, SPAN 2
M413	68	2'-9"	X		X		MEDIAN - TRANSVERSE, Z-BAR, SPAN 2
M414	75	3'-0"	X		X		MEDIAN - TRANSVERSE, U-BAR, SPAN 2
M415	7	5'-9"	X			X	MEDAIN - TRANSVERSE, SPAN 2
M416	3	3'-3"	X				MEDIAN - PAVING BLOCK, TRANSVERSE
M417	3	14'-10"	X				MEDIAN - PAVING BLOCK, TRANSVERSE

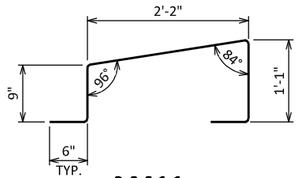
NOTE: LENGTH SHOWN FOR ANY BAR IN A BAR SERIES IS AN AVERAGE LENGTH AND SHOULD ONLY BE USED FOR BAR WEIGHT CALCULATIONS. SEE BAR SERIES TABLE FOR ACTUAL LENGTHS.



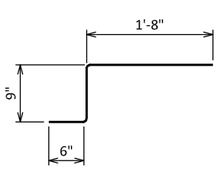
M408



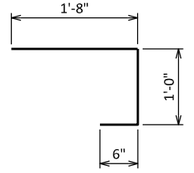
M410



M411



M413

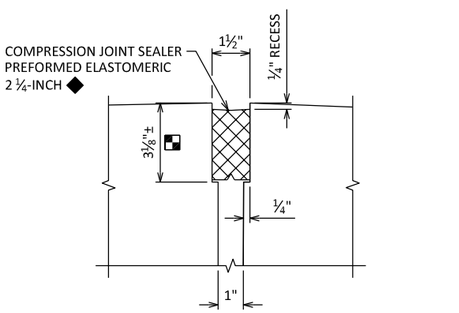


M414

BAR SERIES: MEDIAN

MARK	NO. REQ'D.	LENGTH
M412	1 SERIES OF 68	2'-3" TO 10'-3"
M415	1 SERIES OF 7	1'-11" TO 9'-3"

BUNDLE AND TAG EACH SERIES SEPARATELY.



ELASTOMERIC COMPRESSION SEAL DETAIL

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-66-103

DRAWN BY LTK | PLANS CK'D AA

BILL OF BARS: DECK WIDENING & MEDIAN

SHEET 6 OF 27

498

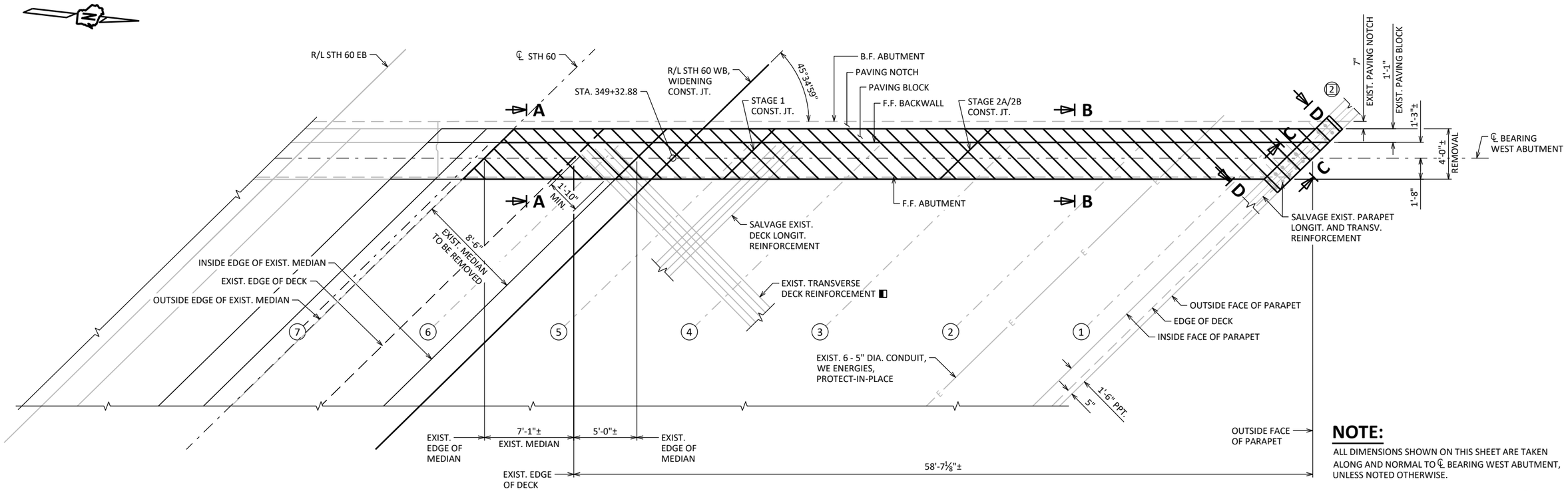
SCALE =

8

8

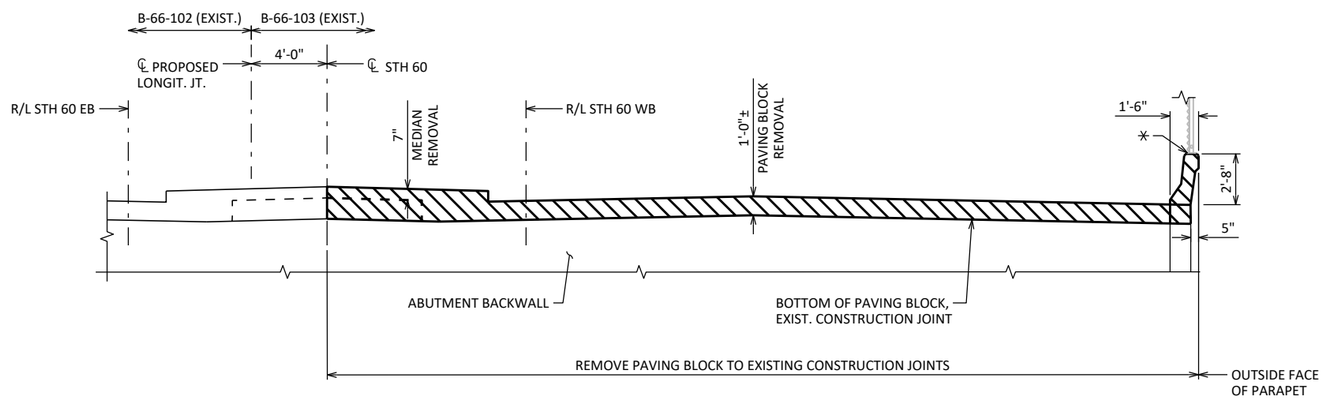
STATE PROJECT NUMBER

2310-09-71



REMOVAL PLAN - WEST JOINT

WEST JOINT SHOWN, EAST JOINT IS SIMILAR



PAVING BLOCK REMOVAL - WEST JOINT

LOOKING WEST
WEST JOINT SHOWN, EAST JOINT IS SIMILAR

NOTE:

ALL DIMENSIONS SHOWN ON THIS SHEET ARE TAKEN ALONG AND NORMAL TO ℄ BEARING WEST ABUTMENT, UNLESS NOTED OTHERWISE.

FOR SECTIONS A-A, B-B, C-C, D-D, AND E-E, SEE "WEST JOINT REMOVAL DETAILS (2 OF 2)" SHEET.

ADJUST REMOVAL LIMITS AS NECESSARY TO FIT NEW EXPANSION JOINT HARDWARE AND CONDITIONS ENCOUNTERED. CHANGES TO REMOVAL LIMITS TO BE APPROVED BY THE ENGINEER.

LEGEND:

- EXISTING CONCRETE TO BE REMOVED FOR JOINT REPLACEMENT
- EXISTING TRANSVERSE REINFORCEMENT IS PLACED NORMAL TO GIRDERS. SAVE AND INCORPORATE FULL LENGTH INTO NEW WORK
- ✳ REMOVE AND RESET FENCE POSTS WITHIN JOINT REPLACEMENT PARAPET REMOVAL LIMITS. CARE SHALL BE TAKEN TO AVOID DAMAGE TO EXISTING FENCE POSTS AND FENCE WOVEN WIRE MESH. ANY FENCE DAMAGE BY CONSTRUCTION OPERATIONS SHALL BE REPLACED AT CONTRACTOR'S EXPENSE. SEE SPECIAL PROVISIONS.
- ◯ GIRDER DESIGNATION
- ⬭ INDICATES WING NUMBER

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-66-103

DRAWN BY LTK | PLANS CK'D AA

WEST JOINT REMOVAL DETAILS (1 OF 2)

SHEET 7 OF 27

499

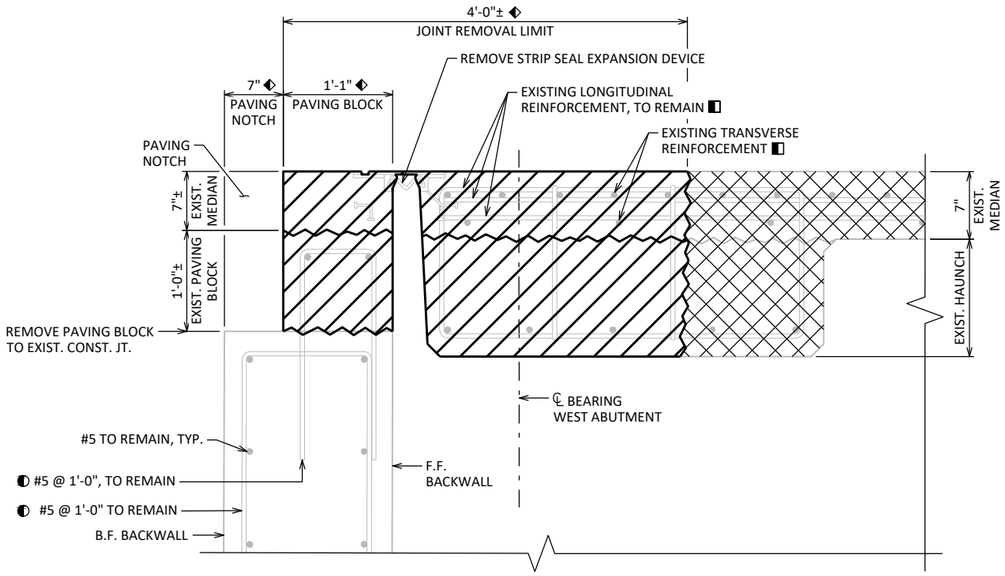
SCALE =

8

8

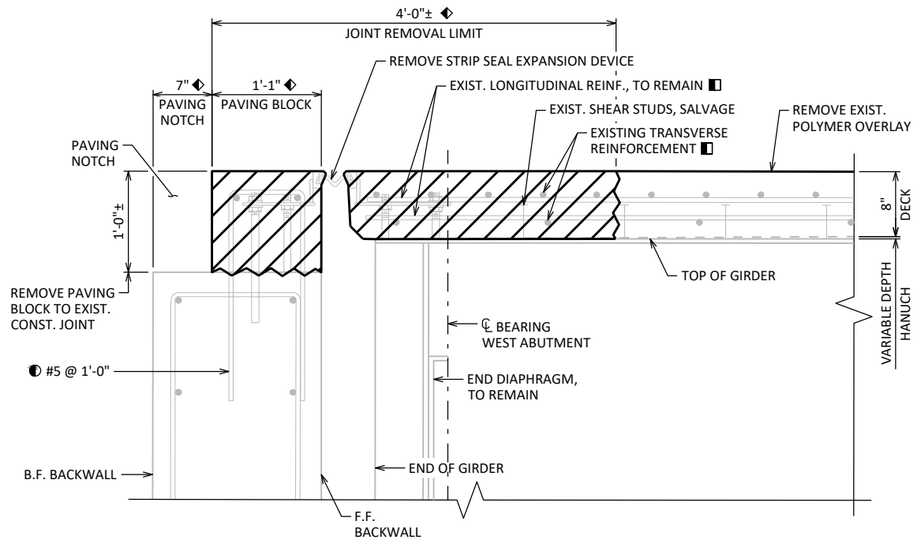
STATE PROJECT NUMBER

2310-09-71



SECTION A-A AT MEDIAN

WEST JOINT SHOWN, EAST JOINT SIMILAR



SECTION B-B DECK

WEST JOINT SHOWN, EAST JOINT SIMILAR

NOTE:

ALL DIMENSIONS SHOWN ON THIS SHEET ARE TAKEN ALONG AND NORMAL TO ℄ BEARING WEST ABUTMENT, UNLESS NOTED OTHERWISE.

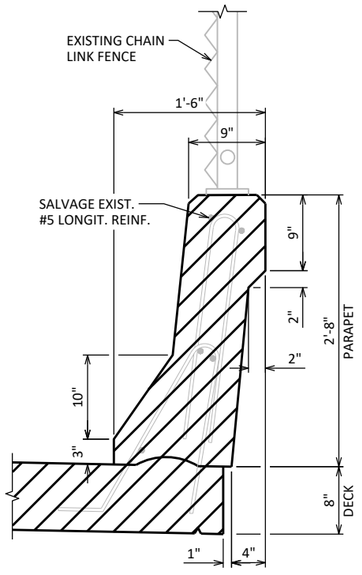
RESET FENCE POST BASE PLATES SHALL BE FLAT WITH ALL SURFACES SMOOTH AND FREE FROM WARP.

FOR CHAINLINK FENCE BASEPLATE RESETTING DETAILS, SEE "WEST JOINT REPLACEMENT DETAILS (2 OF 2)" SHEET.

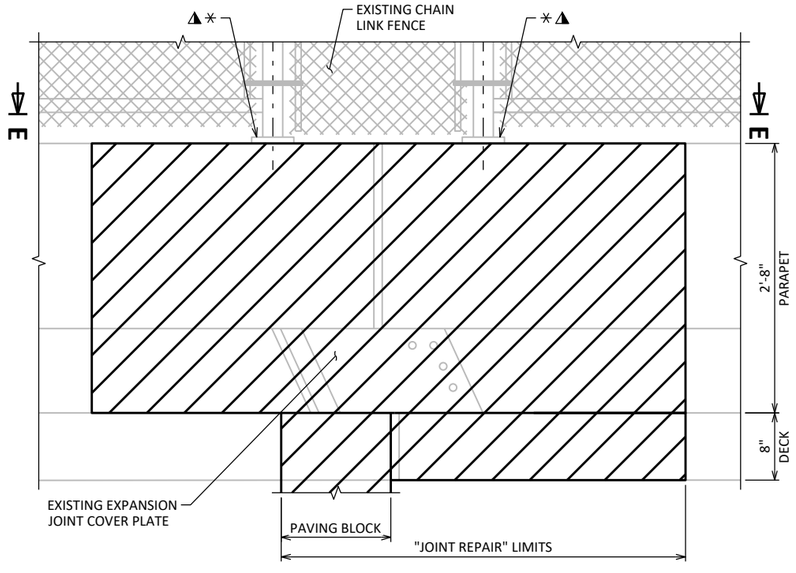
ALL DETAILS ARE SIMILAR AT EAST JOINT.

LEGEND:

- EXISTING CONCRETE TO BE REMOVED FOR JOINT REPLACEMENT
- EXISTING CONCRETE TO BE REMOVED WITH DECK WIDENING & MEDIAN REPLACEMENT
- ✳ REMOVE AND RESET FENCE POSTS WITHIN JOINT REPLACEMENT PARAPET REMOVAL LIMITS. CARE SHALL BE TAKEN TO AVOID DAMAGE TO EXISTING FENCE POSTS AND FENCE WOVEN WIRE MESH. ANY FENCE DAMAGE BY CONSTRUCTION OPERATIONS SHALL BE REPLACED AT CONTRACTOR'S EXPENSE.
- ◪ CAULK AROUND PERIMETER OF RESET BASE PLATES AND FILL PORTION OF SLOTTED HOLE AROUND ANCHOR BOLT IN SHIM WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER.
- ◭ PROVIDE NEW ANCHOR BOLT HARDWARE WHERE CHAIN LINK FENCE POSTS ARE REMOVED AND RESET. ANCHOR BOLTS, NUTS, AND WASHERS SHALL BE EITHER STAINLESS STEEL OR ASTM 307. IF ASTM 307 IS USED, ANCHOR BOLTS, NUTS, AND WASHERS SHALL BE GALVANIZED
- ◆ DIMENSION TAKEN NORMAL TO ℄ ABUT.
- ◧ SAVE AND INCORPORATE ENTIRE EXISTING REINFORCEMENT LENGTH INTO NEW WORK AND WIDENING AREA
- ◐ SALVAGE EXIST. REINF. & EXTEND FULL LENGTH INTO NEW WORK. IF EXISTING BARS ARE SEVERELY CORRODED OR DAMAGED DURING CONCRETE REMOVAL. REPLACE WITH EPOXY ANCHORED NO. 5 L-SHAPED BARS WITH A 10" HORIZ. LEG. EMBED 7". WORK TO BE PAID UNDER ITEM "JOINT REPAIR".

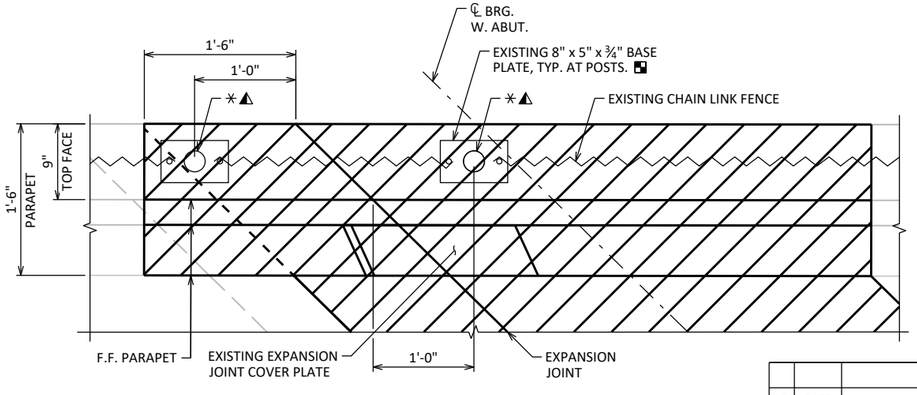


SECTION C-C



SECTION D-D

EXISTING REINFORCEMENT AND JOINT HARDWARE NOT SHOWN FOR CLARITY.



SECTION E-E

EXISTING REINFORCEMENT AND JOINT HARDWARE NOT SHOWN FOR CLARITY.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-66-103

DRAWN BY LTK | PLANS CK'D AA

WEST JOINT REMOVAL DETAILS (2 OF 2)

SHEET 8 OF 27

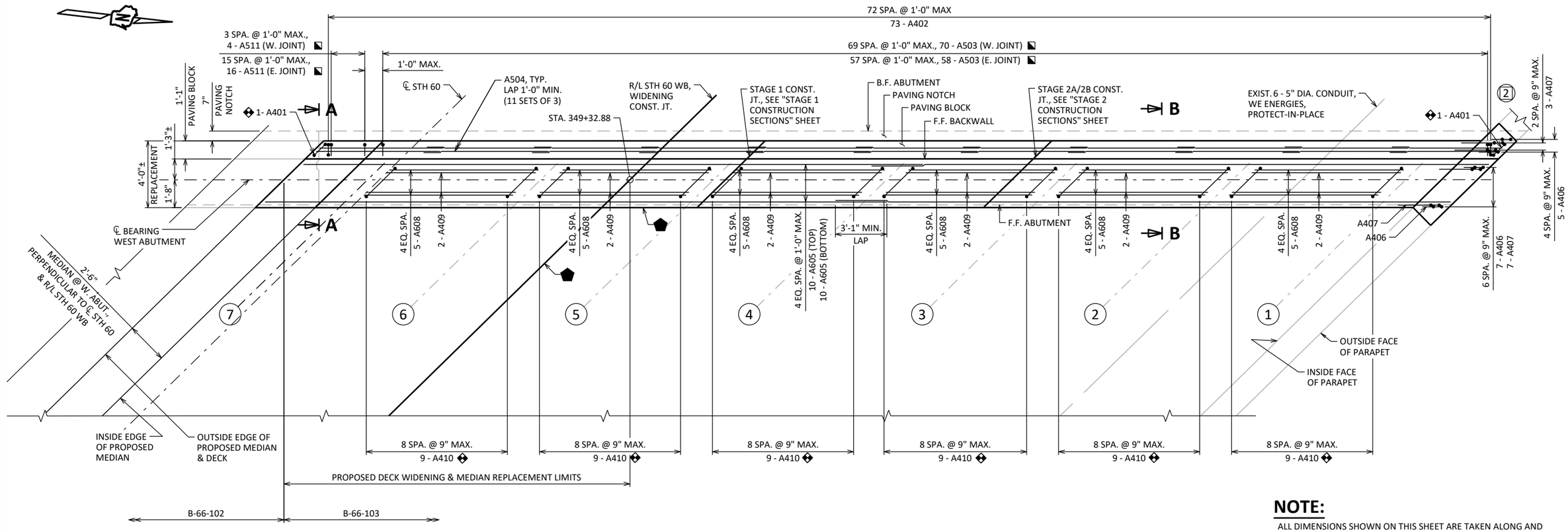
SCALE = 500

8

8

STATE PROJECT NUMBER

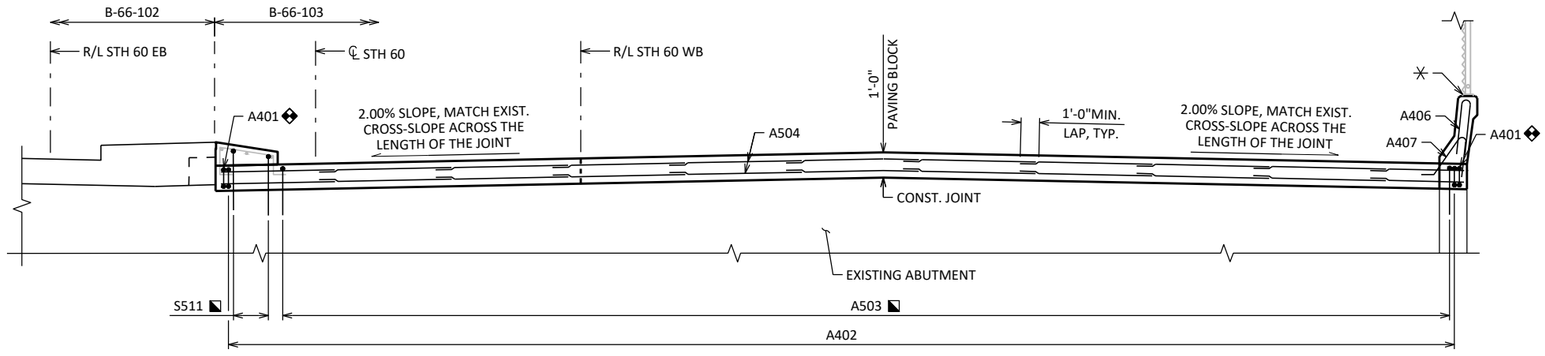
2310-09-71



REPLACEMENT REINFORCEMENT PLAN - WEST JOINT

PROPOSED DECK WIDENING AND MEDIAN REPLACEMENT REINFORCEMENT NOT SHOWN FOR CLARITY. SEE "DECK WIDENING" AND "MEDIAN REPLACEMENT" SHEETS FOR DETAILS LOCATED WITHIN JOINT REPLACEMENT LIMITS.

WEST JOINT SHOWN, EAST JOINT IS SIMILAR



PAVING BLOCK REPLACEMENT REINFORCEMENT - WEST JOINT

TAKEN ALONG ℄ ABUTMENT.
FOR PROPOSED MEDIAN REINFORCEMENT WITHIN JOINT REPLACEMENT LIMITS, SEE "MEDIAN REPLACEMENT" SHEET.

WEST JOINT SHOWN, EAST JOINT IS SIMILAR

NOTE:

ALL DIMENSIONS SHOWN ON THIS SHEET ARE TAKEN ALONG AND NORMAL TO ℄ BEARING WEST ABUTMENT, UNLESS NOTED OTHERWISE.

FOR SECTIONS A-A AND B-B, SEE "WEST JOINT REPLACEMENT DETAILS (2 OF 2)" SHEET.

LEGEND:

- ✳ REMOVE AND RESET FENCE POSTS WITHIN JOINT REPLACEMENT PARAPET REMOVAL LIMITS. CARE SHALL BE TAKEN TO AVOID DAMAGE TO EXISTING FENCE POSTS AND FENCE WOVEN WIRE MESH. ANY FENCE DAMAGE BY CONSTRUCTION OPERATIONS SHALL BE REPLACED AT CONTRACTOR'S EXPENSE. SEE SPECIAL PROVISIONS.
- ◆◆ BARS PLACED PARALLEL TO GIRDERS. SPACING PERPENDICULAR TO ℄ GIRDERS.
- ◥ ADHESIVE ANCHORS NO. 5 BAR. EMBED 1'-0" IN CONCRETE. SPACE AT 1'-0". TURN 10" LEG AS NECESSARY TO FIT WHEN APPLICABLE.
- ◯ GIRDER DESIGNATION
- ⬡ INDICATES WING NUMBER
- ⬟ ROUGHEN SURFACE OF CONCRETE ¼" DEEP MINIMUM AT ALL AREAS WHERE NEW CONCRETE CONTACTS EXISTING CONCRETE.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-66-103

DRAWN BY LTK | PLANS CK'D AA

WEST JOINT REPLACEMENT DETAILS (1 OF 2)

SHEET 9 OF 27
501

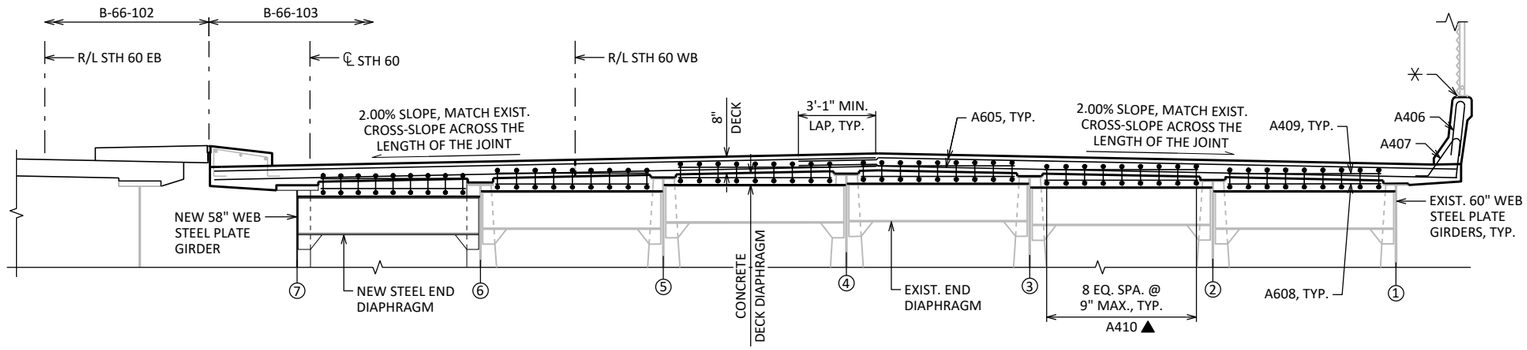
SCALE =

8

8

STATE PROJECT NUMBER

2310-09-71



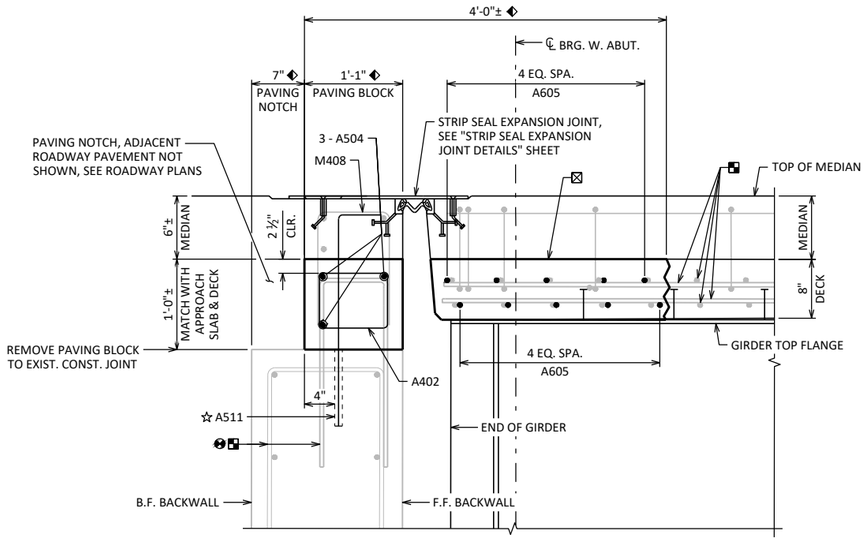
DECK REPLACEMENT REINFORCEMENT - WEST JOINT

TAKEN ALONG ℄ ABUTMENT.
EXISTING SALVAGED DECK REINFORCEMENT NOT SHOWN FOR CLARITY. SEE "WEST JOINT REMOVAL DETAILS (1 OF 2)". FOR MEDIAN REINFORCEMENT WITHIN JOINT REPLACEMENT LIMITS, SEE "MEDIAN REPLACEMENT" SHEET.

WEST JOINT SHOWN, EAST JOINT IS SIMILAR.

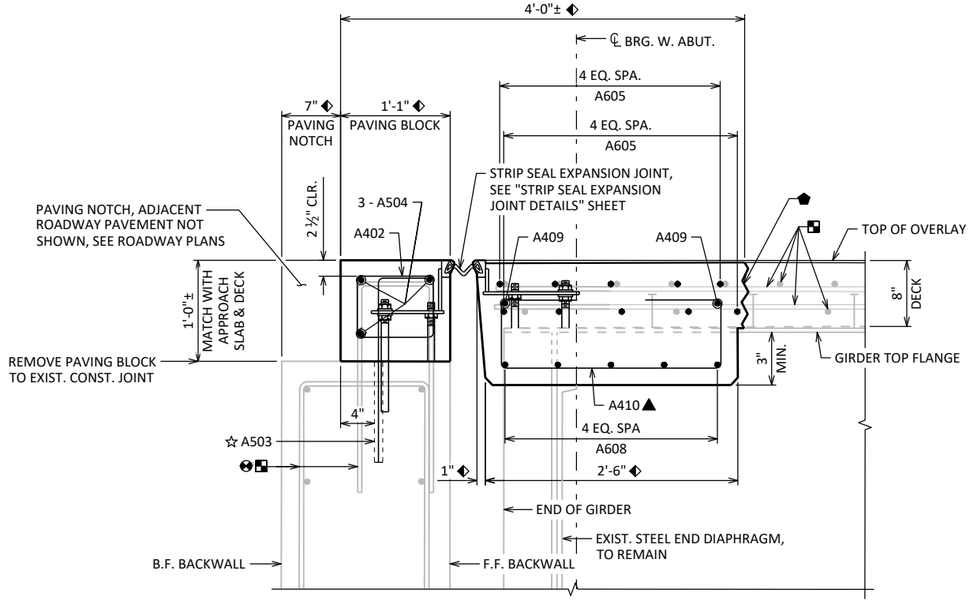
LEGEND:

- ☆ ADHESIVE ANCHORS NO. 5 EMBED 1'-0" IN CONCRETE. SPACE AT 1'-0". TURN 10" LEG AS NECESSARY TO FIT.
- ✳ REMOVE AND RESET FENCE POSTS WITHIN JOINT REPLACEMENT PARAPET REMOVAL LIMITS. CARE SHALL BE TAKEN TO AVOID DAMAGE TO EXISTING FENCE POSTS AND FENCE WOVEN WIRE MESH. ANY FENCE DAMAGE BY CONSTRUCTION OPERATIONS SHALL BE REPLACED AT CONTRACTOR'S EXPENSE. SEE SPECIAL PROVISIONS.
- ⬖ DIMENSION TAKEN NORMAL TO ℄ ABUT.
- ▲ BARS PLACED PARALLEL TO GIRDERS. SPACING PERPENDICULAR TO ℄ GIRDERS.
- ◘ SALVAGE EXIST. REINF. & EXTEND FULL LENGTH INTO NEW WORK.
- ◓ IF EXISTING BARS ARE SEVERELY CORRODED OR DAMAGED DURING CONCRETE REMOVAL, REPLACE WITH EPOXY ANCHORED NO. 5 L-SHAPED BARS WITH A 10" HORIZ. LEG. EMBED 7". WORK TO BE PAID UNDER ITEM "JOINT REPAIR".
- ☒ CONST. JOINT - STRIKE OFF AS SHOWN AND LEAVE ROUGH
- ⬟ ROUGHEN SURFACE OF CONCRETE ¼" DEEP MINIMUM AT ALL AREAS WHERE NEW CONCRETE CONTACTS EXISTING CONCRETE
- ○ INDICATES GIRDER NUMBER



SECTION A-A

NORMAL TO ℄ OF ABUTMENT
FOR MEDIAN AND DECK WIDENING REINFORCEMENT WITHIN JOINT REPLACEMENT LIMITS, SEE "MEDIAN REPLACEMENT" AND "DECK WIDENING" SHEETS.



SECTION B-B

NORMAL TO ℄ OF ABUTMENT
FOR MEDIAN AND DECK WIDENING REINFORCEMENT WITHIN JOINT REPLACEMENT LIMITS, SEE "MEDIAN REPLACEMENT" AND "DECK WIDENING" SHEETS.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-66-103

DRAWN BY LTK | PLANS CK'D AA

WEST JOINT REPLACEMENT DETAILS (2 OF 2)

SHEET 10 OF 27
502

SCALE =

8

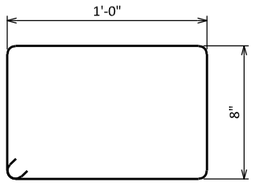
8

STATE PROJECT NUMBER

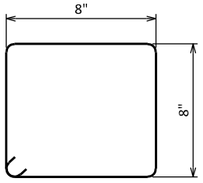
2310-09-71

BILL OF BARS:

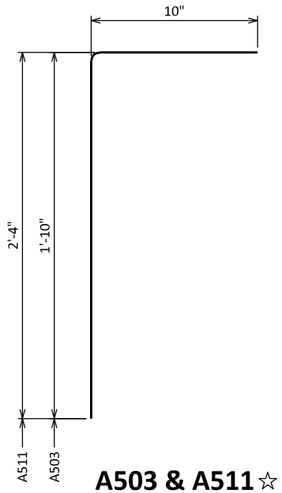
	BAR MARK	NO. REQ'D.	LENGTH	COAT	STAINLESS STEEL	BENT	BAR SERIES	LOCATION
	A401	4	3'-10"	X		X		JOINT PAVING BLOCK - STIRRUP
	A402	146	3'-2"	X		X		JOINT PAVING BLOCK - STIRRUP
☆	A503	128	2'-7"	X		X		JOINT PAVING BLOCK - L-BAR
	A504	66	7'-5"	X				JOINT PAVING BLOCK - STRAIGHT
	A605	40	37'-1"	X				DECK - TRANSVERSE
	A406	24	4'-10"	X		X		PARAPET - TOP BAR
	A407	20	4'-3"	X		X		PARAPET - BOTTOM BAR
	A608	60	8'-9"	X				DECK END DIAPHRAGM - STRAIGHT
	A409	24	8'-9"	X				DECK END DIAPHRAGM, BETWEEN GIRDERS - STRAIGHT
	A410	108	5'-10"	X		X		DECK END DIAPHRAGM, BETWEEN GIRDERS - VERTICAL
☆	A511	20	3'-2"	X		X		JOINT PAVING BLOCK - L-BAR
⚠	A412	24	8'-9"	X				DECK END DIAPHRAGM AT EXP. JT. ANCHOR PLATE - STRAIGHT



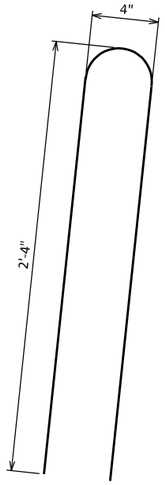
A401



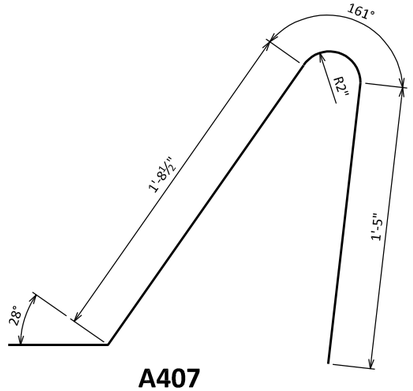
A402



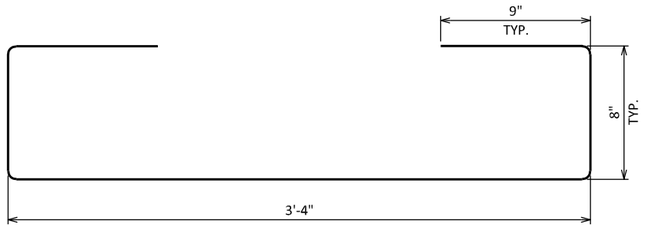
A503 & A511 ☆



A406



A407



A410

LEGEND:

☆ ADHESIVE ANCHORS NO. 5 EMBED 1'-0" IN CONCRETE. SPACE AT 1'-0".

⚠ SEE "STRIP SEAL EXPANSION JOINT DETAILS" SHEET FOR BAR LOCATION.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-66-103

DRAWN BY LTK | PLANS CK'D AA

BILL OF BARS: JOINTS

SHEET 11 OF 27

503

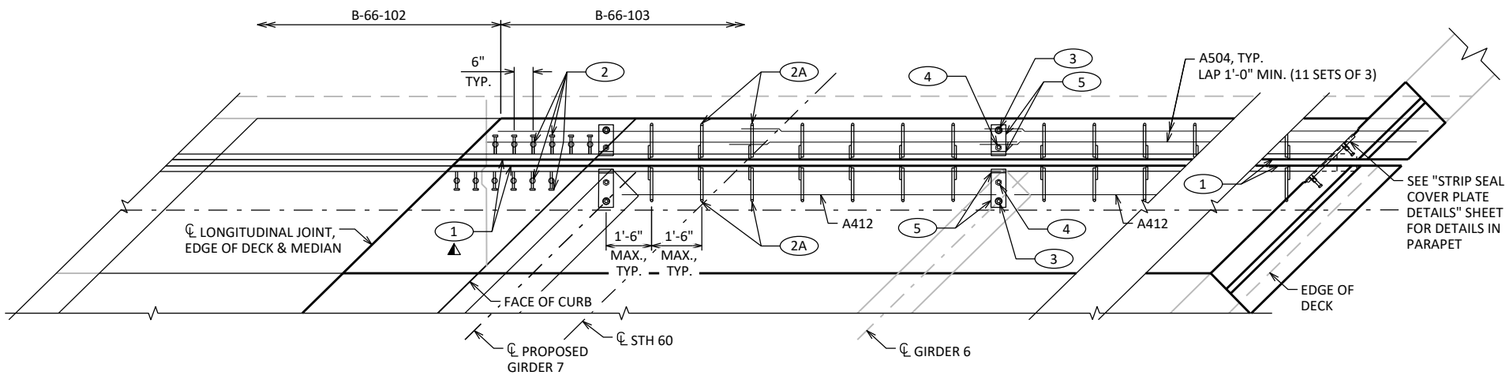
SCALE =

8

8

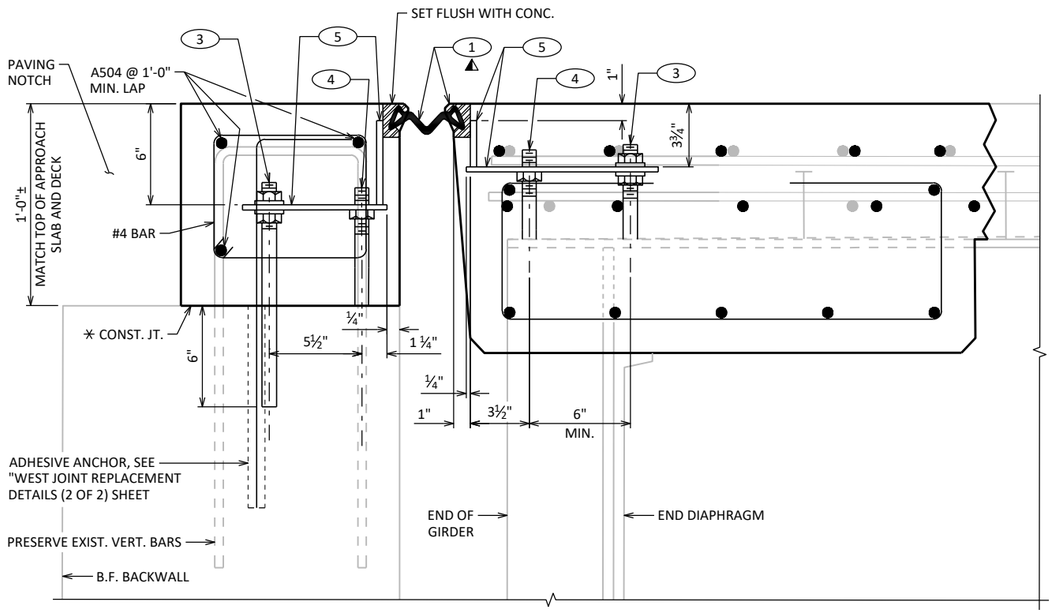
STATE PROJECT NUMBER

2310-09-71



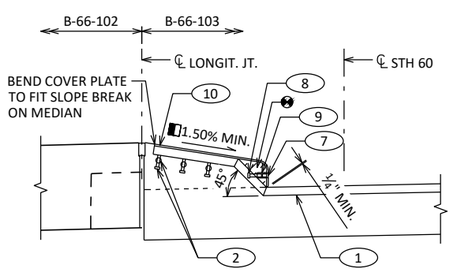
PARTIAL PLAN AT WEST ABUTMENT

WEST JOINT SHOWN, EAST JOINT SIMILAR



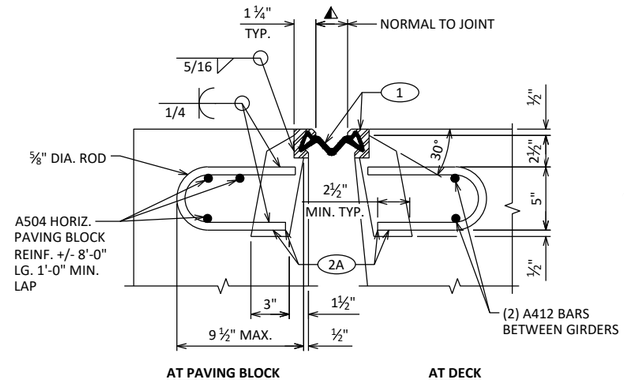
SECTION THRU JOINT AT WEST ABUTMENT

WEST JOINT SHOWN, EAST JOINT SIMILAR
NORMAL TO ℄ SUBSTRUCTURE
SECTION SHOWN BETWEEN MEDIAN CURB AND PARAPET



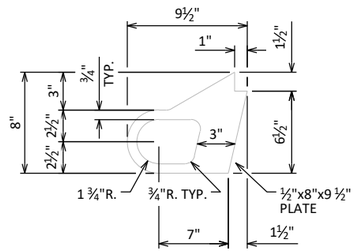
SECTION AT MEDIAN

WEST JOINT SHOWN, EAST JOINT SIMILAR
SEE "STRIP SEAL COVER PLATE DETAILS: MEDIAN" SHEET FOR COVER PLATE INFORMATION

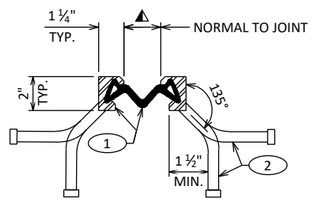


SECTION THRU JOINT

ROADWAY TRAFFIC AREA BETWEEN EXTERIOR GIRDERS



ALTERNATE STRIP SEAL ANCHOR



SECTION THRU JOINT

EXTERIOR GIRDER TO EDGE OF DECK THROUGH MEDIAN, AND AT PARAPETS

NOTE:

ONE FIELD SPLICE PERMITTED IN STEEL EXTRUSIONS. IF USED, ANCHOR PLATES SHALL BE PROVIDED 3" FROM EACH SIDE OF THE FIELD SPLICE. DETAILS SHALL BE SUBMITTED FOR APPROVAL. NO SPLICING PERMITTED IN NEOPRENE SEAL.

AFTER FABRICATION, BUT BEFORE SHIPMENT, STRAIGHTEN STEEL EXTRUSIONS SUCH THAT THEY SHALL BE FREE FROM WARP, TWIST, AND SWEEP.

FABRICATOR SHALL PROVIDE MEANS OF KEEPING GALVANIZED EXTRUSION CLEAN AND SMOOTH DURING SHIPMENT AND PRIOR TO APPLYING LUBRICANT ADHESIVE FOR NEOPRENE GLAND INSTALLATION.

SANDBLAST PLATES, SUPPORTS AND EXTRUSIONS AFTER FABRICATION IN ACCORDANCE WITH SSPC SP. #6 "COMMERCIAL BLAST CLEANING". AFTER BLAST CLEANING, THE PLATES, SUPPORTS AND EXTRUSIONS SHALL BE HOT DIPPED GALVANIZED. SLIP-RESISTANT SURFACE IS APPLIED TO SIDEWALK AND MEDIAN COVER PLATES BY THE MANUFACTURER AND THEN HOT DIPPED GALVANIZED TO THEIR RECOMMENDATION TO MAINTAIN THE INTEGRITY OF THIS SURFACE.

ANCHOR SYSTEM NO. 8 AND NO. 9 SHALL CONFIRM TO ASTM A307 & SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A153 CLASS C AND D.

STRIP SEAL EXPANSION JOINT ASSEMBLY, INCLUDING ANCHOR STUDS AND HARDWARE WILL BE PAID FOR UNDER THE BID ITEM "EXPANSION DEVICE".

LEGEND:

- BLOCK OUT CONCRETE 2" EACH SIDE OF JOINT OPENING.
- ✳ POUR CONCRETE ABOVE THIS JOINT AFTER SUPERSTRUCTURE IS IN PLACE. STRIKE OFF AND LEAVE ROUGH.
- ◧ ADJUST CROSS-SLOPE AND MEDIAN THICKNESS AT OUTSIDE EDGE TO MATCH E.B. MEDIAN.
- ⚠ (1) NEOPRENE STRIP SEAL (4-INCH) AND STEEL EXTRUSIONS. JOINT OPENINGS GIVEN NORMAL TO JOINT. SET JOINT OPENING TO 1 ¾".
- (2) STUDS ⅝" DIA. X 6 ¾" LONG AT 6" ALTERNATE CENTERS. WELD TO EXTRUSIONS AND BEND AS SHOWN AFTER WELDING.
- (2A) ½" THICK ANCHOR PLATE WITH ⅝" DIA. ROD (OR ALTERNATE STRIP SEAL ANCHOR). WELD ROD TO ANCHOR PLATE, WELD ANCHOR PLATE TO NO. 1 AT 1'-6" CENTERS BETWEEN GIRDERS.
- (3) ¾" DIA. THREADED ROD WITH 2 NUTS AND PLATE WASHERS. GROUT THREADED ROD INTO FIELD DRILLED HOLES ON C/L OF GIRDER AT WEST ABUTMENT, PAVING BLOCKS, AND AT STA. 17+28.33 JOINT. BOLT THROUGH AND SUPPORT ON FORMS AT OTHER LOCATIONS.
- (4) ¾" DIA. THREADED ROD WITH NUT. TACK WELD NUT TO NO. 5.
- (5) FABRICATE SUPPORT FROM 3" x ½" BAR AS SHOWN OR EQUIVALENT. SHOP OR FIELD WELD TO NO. 1. IF FIELD WELDED, COVER WELDED AREAS WITH EPOXY-COATING MATERIAL. PROVIDE 1 ½" DIA. HOLE FOR NO. 3 AND 1" DIA. HOLE FOR NO. 4. PROVIDE ONE PER GIRDER AT WEST ABUTMENT. AT OTHER LOCATIONS, SPACE AT APPROXIMATELY 8'-0" O.C.
- (7) ¾" DIA. x 1 ½" STAINLESS STEEL SOCKET FLAT HEAD SCREWS WITH ANTI-SEIZE LUBRICANT. PLACE IN COUNTERSUNK HOLE. RECESS 1/16" BELOW PLATE SURFACE.
- (8) ¾" DIA. x 4" GALVANIZED HEX HEAD BOLT, BEND 45°.
- (9) ¾" DIA. x 2 ¼" GALVANIZED THREADED COUPLING.
- (10) MEDIAN COVER PLATE ⅜" X 1'-6" WIDE X LIMITS SHOWN. BEND DOWN FACE OF SIDEWALK WITH HOLES FOR NO. 7. GALVANIZE PLATE AFTER SLIP-RESISTANT SURFACE APPLIED.
- (11) 1" x 5" SLOTTED COUNTERSUNK HOLE FOR NO. 7. PLACE SLOT PARALLEL TO DIRECTION OF MOVEMENT.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-66-103

DRAWN BY LTK | PLANS CK'D AA

STRIP SEAL EXPANSION JOINT DETAILS

SHEET 12 OF 27

504

SCALE =

STATE PROJECT NUMBER

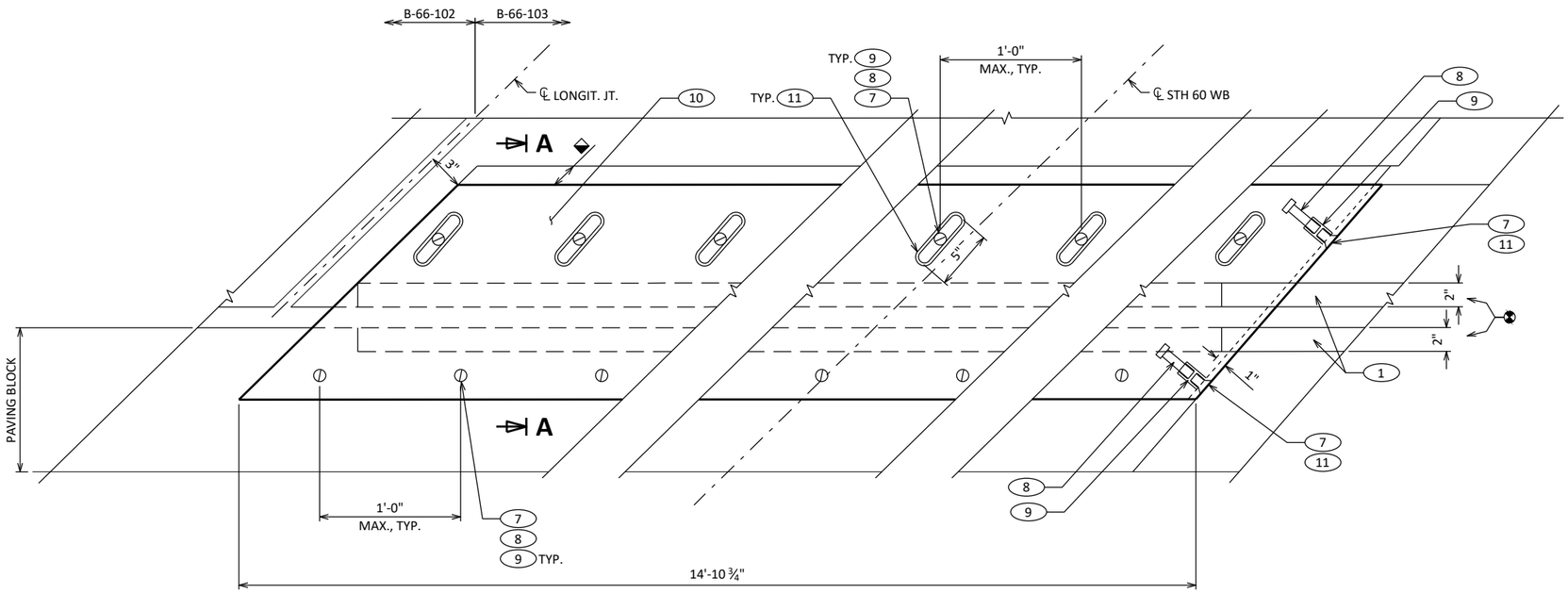
2310-09-71

NOTE:

SEE "WEST JOINT REPLACEMENT DETAILS (1 OF 2)" SHEET FOR EXPANSION JOINT NOTES.

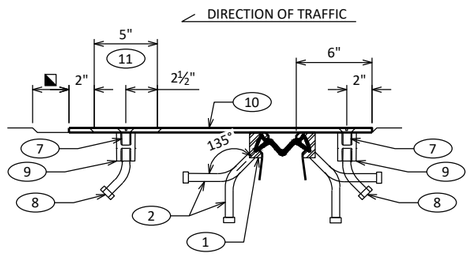
LEGEND:

- ● BLOCK OUT CONCRETE 2" EACH SIDE OF JOINT OPENING.
- ◥ JOINT OPENING DIMENSION ALONG SKEW PLUS ½"
- ◧ ADJUST CROSS-SLOPE AND MEDIAN THICKNESS AT OUTSIDE EDGE TO MATCH E.B. MEDIAN.
- (1) NEOPRENE STRIP SEAL (4-INCH) AND STEEL EXTRUSIONS. JOINT OPENINGS GIVEN NORMAL TO JOINT. SET JOINT OPENING TO 1 ¾".
- (7) ¾" DIA. x 1 ½" STAINLESS STEEL SOCKET FLAT HEAD SCREWS WITH ANTI-SEIZE LUBRICANT. PLACE IN COUNTERSUNK HOLE. RECESS 1/16" BELOW PLATE SURFACE.
- (8) ¾" DIA. x 4" GALVANIZED HEX HEAD BOLT, BEND 45°.
- (9) ¾" DIA. x 2 ¼" GALVANIZED THREADED COUPLING.
- (10) SIDEWALK COVER PLATE ⅜" X 3'-0" WIDE X LIMITS SHOWN. BEND DOWN FACE OF SIDEWALK WITH HOLES FOR NO. 7. GALVANIZE PLATE AFTER SLIP-RESISTANT SURFACE APPLIED.
- (11) 1" x 5" SLOTTED COUNTERSUNK HOLE FOR NO. 7. PLACE SLOT PARALLEL TO DIRECTION OF MOVEMENT.



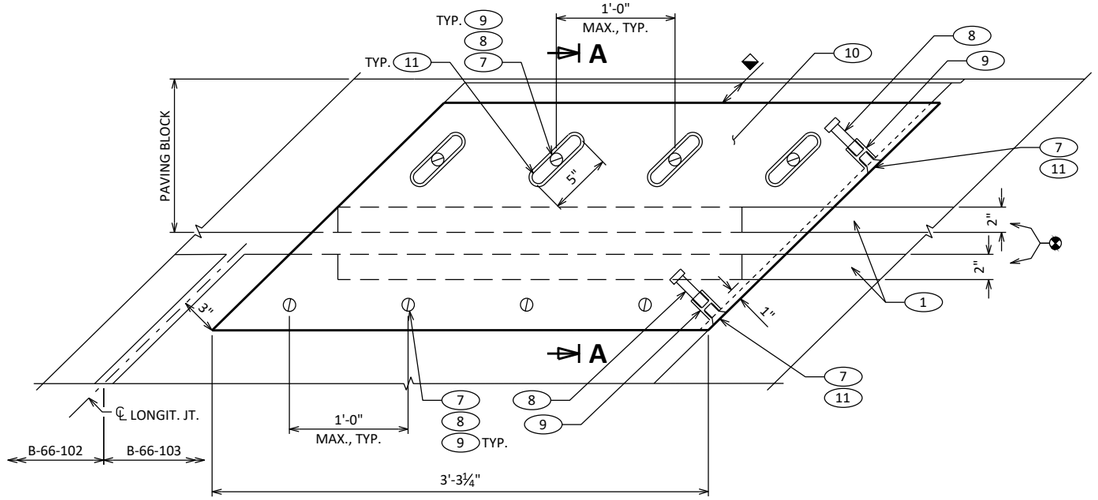
PLAN AT EAST JOINT MEDIAN COVER PLATE

LOOKING WEST



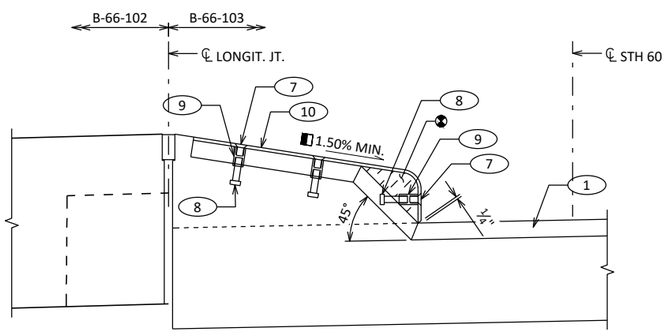
SECTION A-A

TYP. UNLESS NOTED OTHERWISE



PLAN AT WEST JOINT MEDIAN COVER PLATE

LOOKING WEST



SECTION AT MEDIAN

WEST JOINT SHOWN, EAST JOINT SIMILAR

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-66-103

DRAWN BY LTK | PLANS CK'D AA

STRIP SEAL COVER PLATE DETAILS: MEDIAN

SHEET 13 OF 27

505

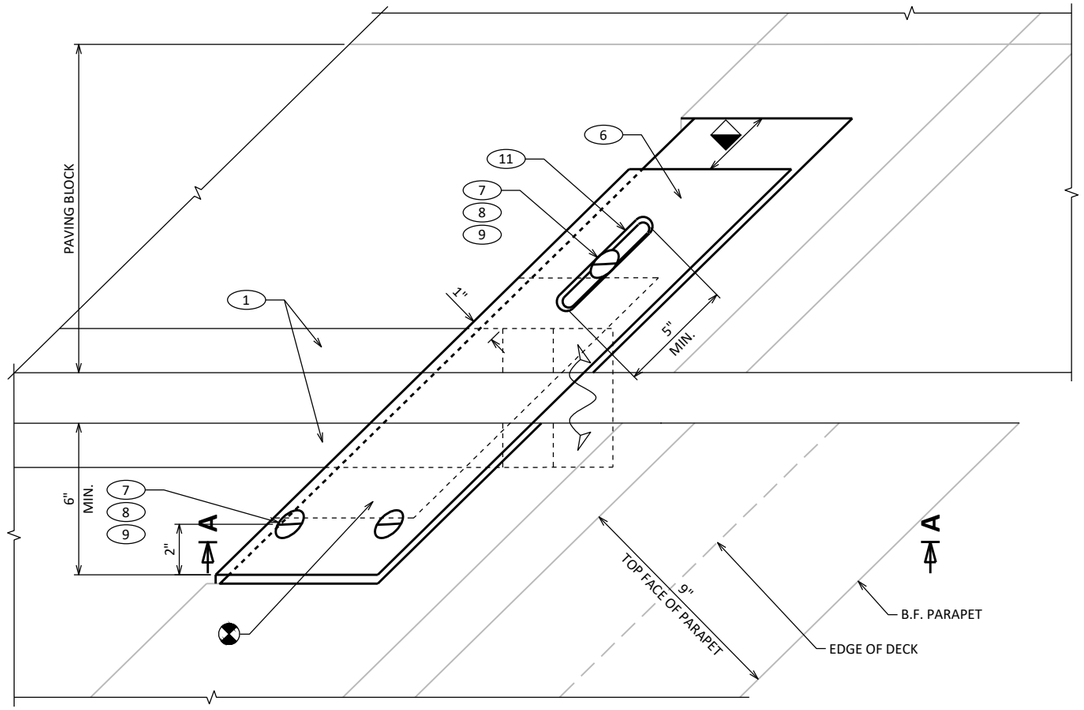
SCALE =

8

8

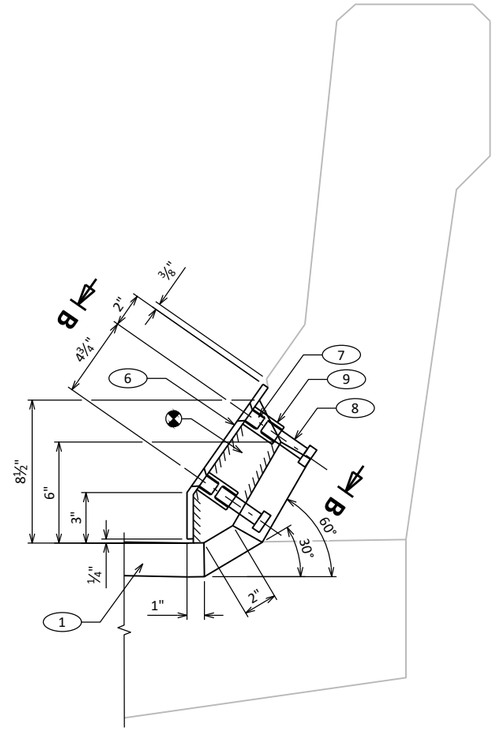
STATE PROJECT NUMBER

2310-09-71



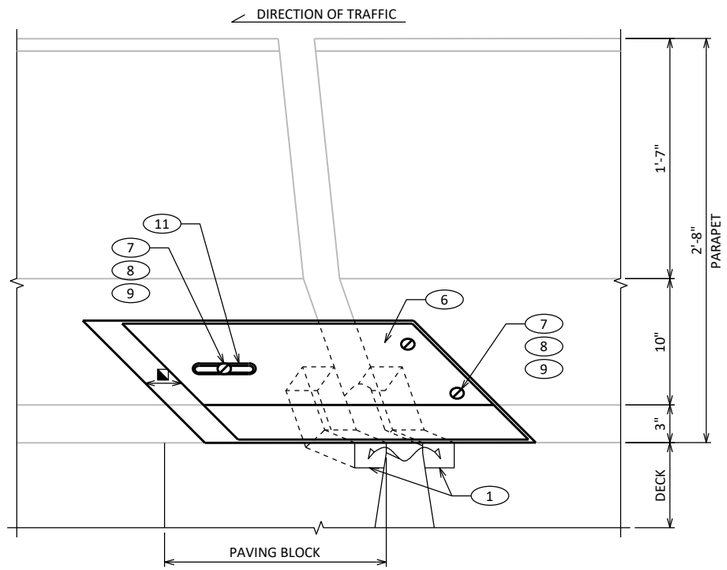
PLAN AT PARAPET

SLOPED FACE PARAPET
WEST JOINT SHOWN, EAST JOINT SIMILAR



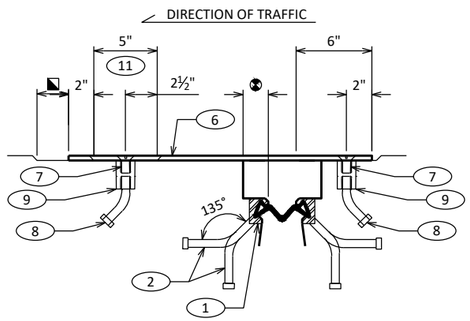
SECTION A-A

LOOKING WEST



VIEW OF PARAPET PLATE FROM ROADWAY

SLOPED FACE PARAPET
WEST JOINT SHOWN, EAST JOINT SIMILAR



SECTION B-B

TYP. UNLESS NOTED OTHERWISE

NOTE:

SEE "WEST JOINT REPLACEMENT DETAILS (1 OF 2)" SHEET FOR EXPANSION JOINT NOTES.

LEGEND:

- BLOCK OUT CONCRETE 2" EACH SIDE OF JOINT OPENING.
- JOINT OPENING DIMENSION ALONG SKEW PLUS ½"
- (1) NEOPRENE STRIP SEAL (4-INCH) AND STEEL EXTRUSIONS. JOINT OPENINGS GIVEN NORMAL TO JOINT. SET JOINT OPENING TO 1 ¾".
- (2) STUDS ⅝" DIA. X 6 ⅜" LONG AT 6" ALTERNATE CENTERS. WELD TO EXTRUSIONS AND BEND AS SHOWN AFTER WELDING.
- (6) GALVANIZED PLATE ⅜" X 10" X 3'-0" WITH HOLES FOR NO. 7.
- (7) ¾" DIA. x 1 ½" STAINLESS STEEL SOCKET FLAT HEAD SCREWS WITH ANTI-SEIZE LUBRICANT. PLACE IN COUNTERSUNK HOLE. RECESS 1/16" BELOW PLATE SURFACE.
- (8) ¾" DIA. x 4" GALVANIZED HEX HEAD BOLT, BEND 45°.
- (9) ¾" DIA. x 2 ¼" GALVANIZED THREADED COUPLING.
- (11) 1" x 5" SLOTTED COUNTERSUNK HOLE FOR NO. 7. PLACE SLOT PARALLEL TO DIRECTION OF MOVEMENT.

8

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-66-103

DRAWN BY LTK | PLANS CK'D AA

STRIP SEAL COVER PLATE DETAILS: PARAPET

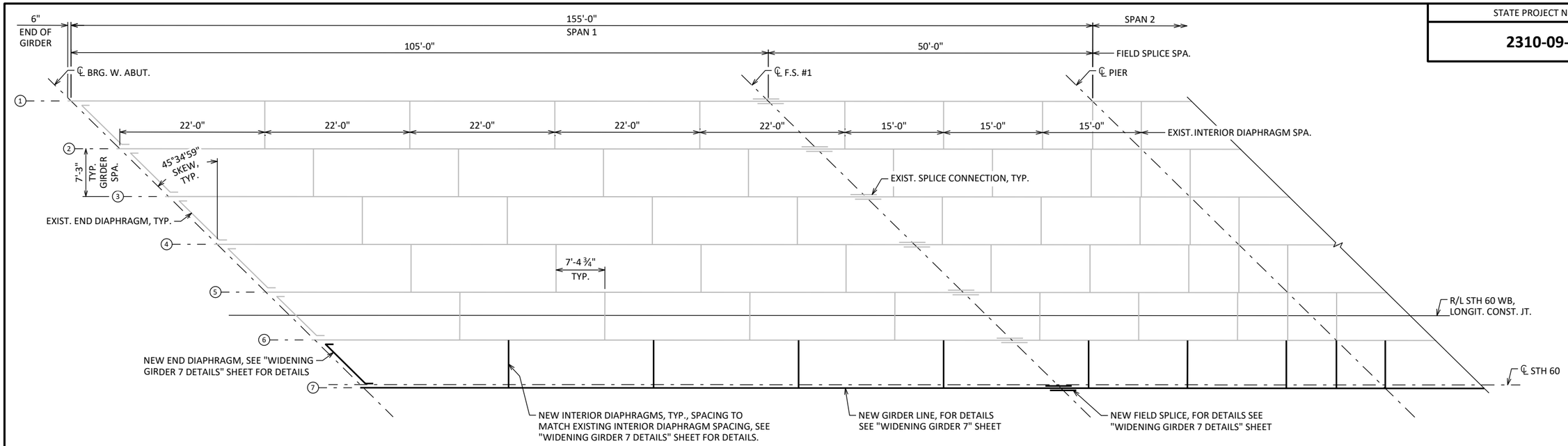
SHEET 14 OF 27

506

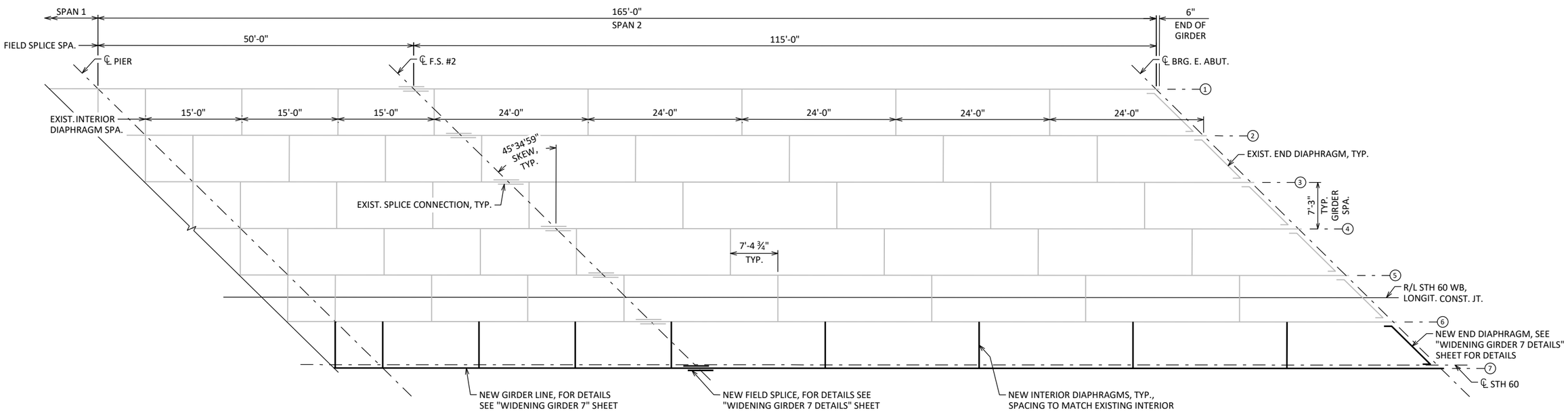
SCALE =

STATE PROJECT NUMBER

2310-09-71



FRAMING PLAN (SPAN 1)



FRAMING PLAN (SPAN 2)

LEGEND

◯ GIRDER NUMBER

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-66-103

DRAWN BY LTK | PLANS CK'D AA

FRAMING PLAN

SHEET 15 OF 27

507

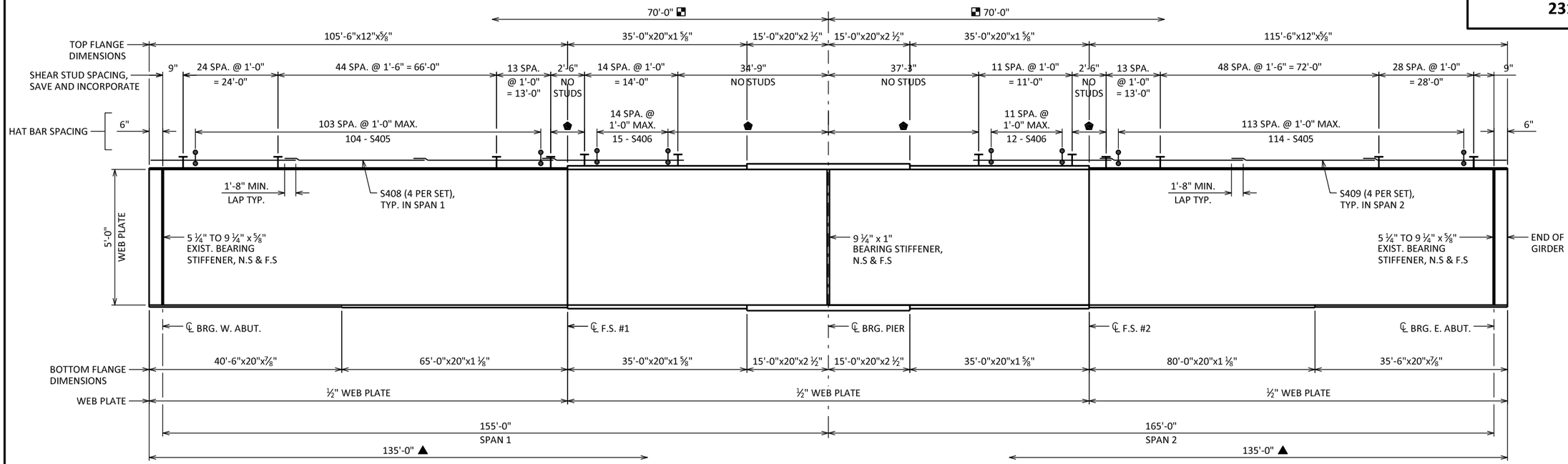
SCALE =

8

8

STATE PROJECT NUMBER

2310-09-71



EXISTING GIRDER 6 ELEVATION

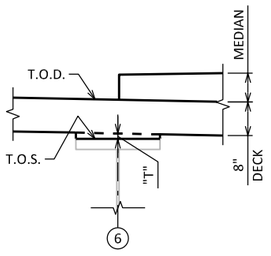
GIRDER DETAIL AND HAUNCH REINFORCEMENT LAYOUT

DEAD LOAD DEFLECTION TABLE (INCHES)

DEFLECTION	SPAN 1 (INCHES)											C/L Pier	SPAN 2 (INCHES)										
	C/L BRG. W. ABUT.	0.1L	0.2L	0.3L	0.4L	0.5L	0.6L	C/L F.S. #1	0.7L	0.8L	0.9L		0.1L	0.2L	0.3L	C/L F.S. #2	0.4L	0.5L	0.6L	0.7L	0.8L	0.9L	C/L BRG. E. ABUT.
G6 CONC. ONLY	0.0	1.2	2.2	2.7	2.8	2.5	1.9	1.3	1.1	0.5	0.0	0.0	0.4	1.3	2.4	2.5	3.6	4.4	4.7	4.4	3.4	1.9	0.0
TOTAL	0.0	1.5	2.7	3.4	3.6	3.2	2.4	1.6	1.4	0.6	0.0	0.0	0.6	1.7	3.1	3.1	4.5	5.5	5.9	5.5	4.2	2.3	0.0

ELEVATIONS AT TOP OF DECK (T.O.D.)

GIRDER NO.		SPAN 1											C/L Pier	SPAN 2										
		C/L BRG. W. ABUT.	0.1L	0.2L	0.3L	0.4L	0.5L	0.6L	C/L F.S. #1	0.7L	0.8L	0.9L		0.1L	0.2L	0.3L	C/L F.S. #2	0.4L	0.5L	0.6L	0.7L	0.8L	0.9L	C/L BRG. E. ABUT.
6	T.O.D.	1124.73	1125.00	1125.27	1125.54	1125.82	1126.09	1126.36	1126.54	1126.59	1126.79	1126.99	1127.18	1127.35	1127.50	1127.62	1127.63	1127.71	1127.79	1127.88	1127.96	1128.04	1128.12	1128.17

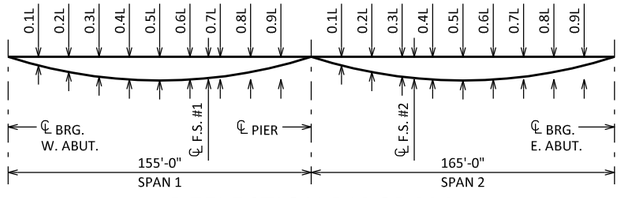


HAUNCH DETAILS

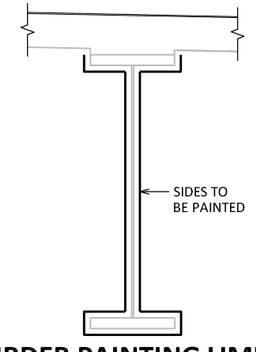
TO DETERMINE "T": ELEVATION OF THE TOP FLANGES, TOP OF SPLICE PLATES, OR TOP OF COVER PLATES, WHICHEVER APPLIES, SHALL BE TAKEN AT C/L OF BRGS. AND AT TENTH POINTS OF EACH SPAN.
THEN FOLLOW THIS PROCESS:

TOP OF DECK ELEV. AT FINAL GRADE
- TOP OF STEEL ELEV.
+ THICKNESS OF TOP FLANGE & TOP PLATES
+ DEFLECTION
- SLAB THICKNESS (8")

= HAUNCH THICKNESS "T"

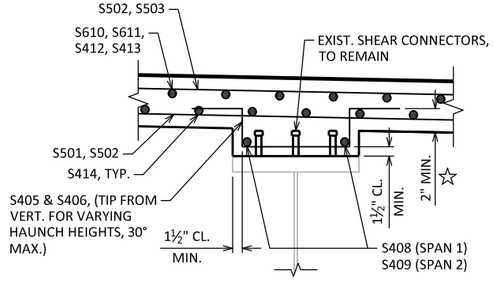


DEFLECTION DIAGRAM



GIRDER PAINTING LIMITS

GIRDERS 1 THRU 6



HAT BAR & HAUNCH REINFORCEMENT

NOTES

EXISTING SHEAR CONNECTORS, IF DAMAGED, SHALL BE REMOVED AND REPLACED WITH FIELD WELDED ⅞" DIA. X 4" LONG STUDS. REPLACEMENT OF DAMAGED SHEAR CONNECTORS SHALL BE COMPLETED AT THE EXPENSE OF THE CONTRACTOR.

LEGEND

- ⬟ NO HAT BAR
- N.S. NEAR SIDE
- F.S. FAR SIDE
- ○ INDICATES GIRDER NUMBER
- ☆ CONTACT DESIGN ENGINEER IF 2" MIN. CANNOT BE OBTAINED.
- ▲ NO FIELD WELDING TO BOTTOM FLANGE PERMITTED IN THIS AREA.
- ◪ NO FIELD WELDING TO TOP FLANGE PERMITTED IN THIS AREA EXCEPT FOR SHEAR STUD CONNECTORS.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-66-103

DRAWN BY LTK | PLANS CK'D AA

EXISTING GIRDER 6

SHEET 16 OF 27

508

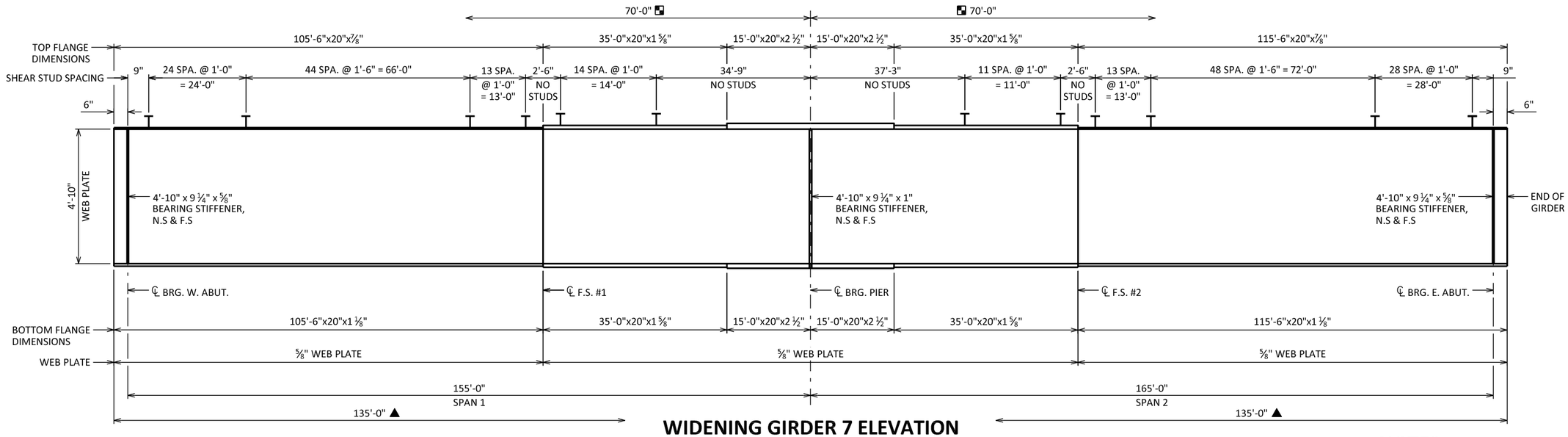
SCALE =

8

8

STATE PROJECT NUMBER

2310-09-71



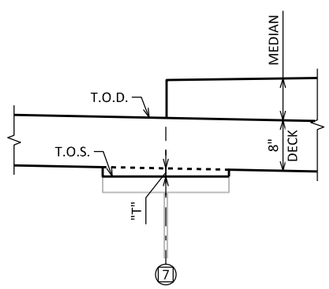
WIDENING GIRDER 7 ELEVATION

DEAD LOAD DEFLECTION TABLE (INCHES)

DEFLECTION	SPAN 1 (INCHES)											C/L Pier	SPAN 2 (INCHES)										
	C/L BRG. W. ABUT.	0.1L	0.2L	0.3L	0.4L	0.5L	0.6L	C/L F.S. #1	0.7L	0.8L	0.9L		0.1L	0.2L	0.3L	C/L F.S. #2	0.4L	0.5L	0.6L	0.7L	0.8L	0.9L	C/L BRG. E. ABUT.
G7 CONC. ONLY	0.0	1.0	1.9	2.4	2.6	2.3	1.8	1.3	1.1	0.5	0.1	0.0	0.4	1.2	2.3	2.3	3.2	3.9	4.1	3.8	2.9	1.6	0.0
TOTAL	0.0	1.4	2.5	3.2	3.3	3.0	2.4	1.7	1.5	0.6	0.1	0.0	0.5	1.6	2.9	3.0	4.2	5.1	5.3	4.9	3.8	2.1	0.0

ELEVATIONS AT TOP OF DECK (T.O.D.) & TOP OF STEEL (T.O.S.) ⚹

GIRDER NO.		SPAN 1											C/L Pier	SPAN 2										
		C/L BRG. W. ABUT.	0.1L	0.2L	0.3L	0.4L	0.5L	0.6L	C/L F.S. #1	0.7L	0.8L	0.9L		0.1L	0.2L	0.3L	C/L F.S. #2	0.4L	0.5L	0.6L	0.7L	0.8L	0.9L	C/L BRG. E. ABUT.
7	T.O.D.	1124.72	1124.99	1125.26	1125.53	1125.80	1126.07	1126.33	1126.50	1126.54	1126.74	1126.94	1127.12	1127.28	1127.41	1127.52	1127.52	1127.60	1127.68	1127.77	1127.85	1127.93	1128.00	1128.04
	T.O.S.	1123.80							1125.75				1126.27				1126.87							1127.13

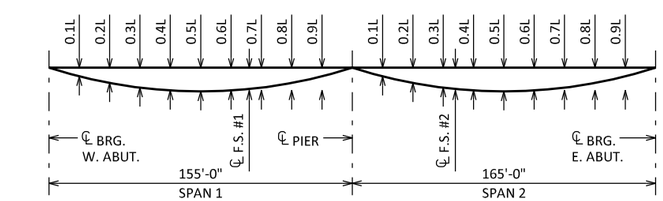


HAUNCH DETAILS

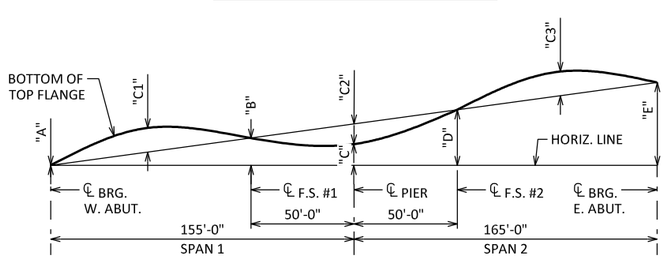
TO DETERMINE "T": ELEVATION OF THE TOP FLANGES, TOP OF SPLICE PLATES, OR TOP OF COVER PLATES, WHICHEVER APPLIES, SHALL BE TAKEN AT C/L OF BRGS. AND AT TENTH POINTS OF EACH SPAN.
THEN FOLLOW THIS PROCESS:

TOP OF DECK ELEV. AT FINAL GRADE
- TOP OF STEEL ELEV.
+ THICKNESS OF TOP FLANGE & TOP PLATES
+ DEFLECTION
- SLAB THICKNESS (8")

= HAUNCH THICKNESS "T"



DEFLECTION DIAGRAM

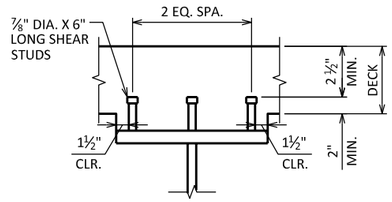


BLOCKING DIAGRAM

BLOCKING DIMENSIONS

BLOCKING DIMENSIONS					
GIRDER NO.	"A"	"B"	"C"	"D"	"E"
7	0'-0"	1'-9 1/2"	2'-4 3/4"	2'-9 3/4"	3'-3 7/8"

CAMBER DIMENSIONS (INCH)	
C1	4.5
C2	-1.3
C3	6.25



SHEAR STUD DETAIL

STUDS SHALL NOT BE PLACED OVER FIELD SPLICE PLATES

NOTES

FOR GIRDER 7 FIELD SPLICE, STIFFENER, AND DIAPHRAGM DETAILS, SEE "WIDENING GIRDER 7 DETAILS" SHEET.

OPTIONAL WELDED SHOP SPLICES MAY BE USED FOR ALL FLANGE AND WEB PLATES OVER 60'-0" LONG. IF USED, THE LOCATION OF THE SPLICE SHALL BE SHOWN ON SHOP DRAWINGS AND WILL BE SUBJECT TO THE APPROVAL OF THE STRUCTURES DESIGN SECTION.

NEGATIVE DEFLECTION VALUE INDICATES UPWARD DEFLECTION.

CONCRETE DEFLECTION INCLUDES CONCRETE DECK, HAUNCH, BARRIER, AND MEDIAN.

TOTAL DEFLECTION INCLUDES ALL OF THE ABOVE PLUS DEFLECTIONS DUE TO SELF WEIGHT OF STEEL.

SHEAR STUDS SHOULD NOT BE PLACED ON SPLICE PLATES. STUDS THAT ARE LOCATED OVER SPLICE PLATES SHALL BE DISTRIBUTED EVENLY ALONG THE SIDES OF THE SPLICE.

LEGEND

N.S. NEAR SIDE

F.S. FAR SIDE

○ INDICATES GIRDER NUMBER

⚹ ELEVATIONS ARE TO TOP OF STEEL (SPLICE AND COVER PLATE THICKNESS, IF APPLICABLE, ARE ACCOUNTED FOR). THE ELEVATION OF THE TOP OF STEEL AT THE FIELD SPLICE POINTS SHALL BE CHECKED AND CORRECTED, IF POSSIBLE.

▲ NO FIELD WELDING TO BOTTOM FLANGE PERMITTED IN THIS AREA.

▪ NO FIELD WELDING TO TOP FLANGE PERMITTED IN THIS AREA EXCEPT FOR SHEAR STUD CONNECTORS.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-66-103

DRAWN BY LTK | PLANS CK'D AA

WIDENING GIRDER 7

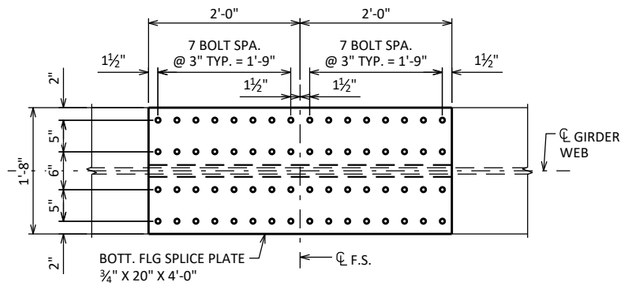
SHEET 17 OF 27

509

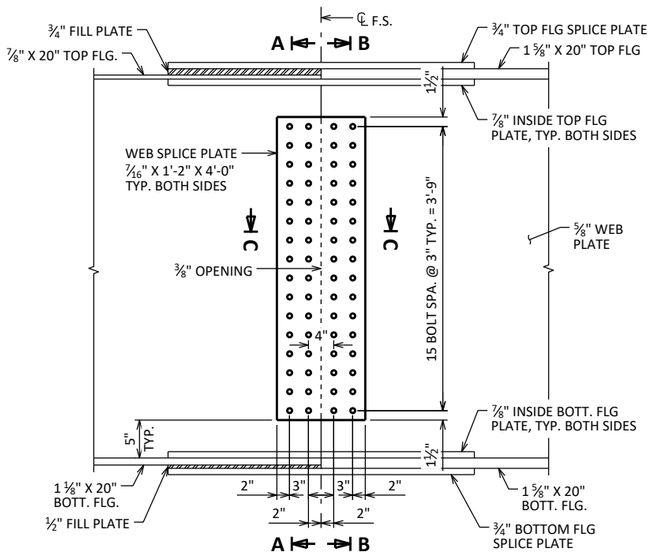
SCALE =

8

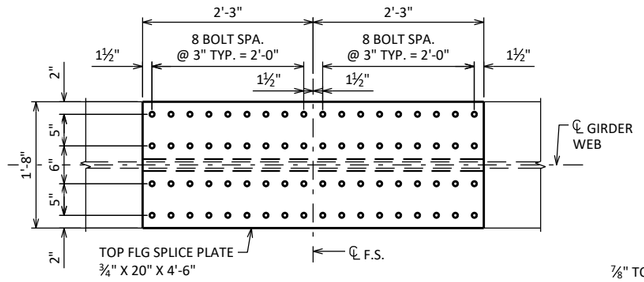
8



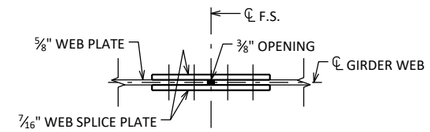
FIELD SPLICE DETAIL - TOP FLG PLATE



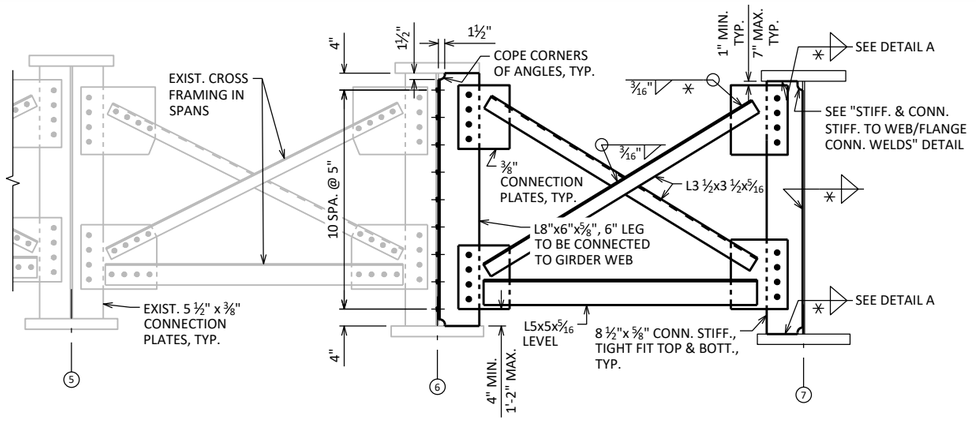
FIELD SPLICE DETAIL - WEB PLATE



FIELD SPLICE DETAIL - BOTTOM FLG SPLICE PLATE

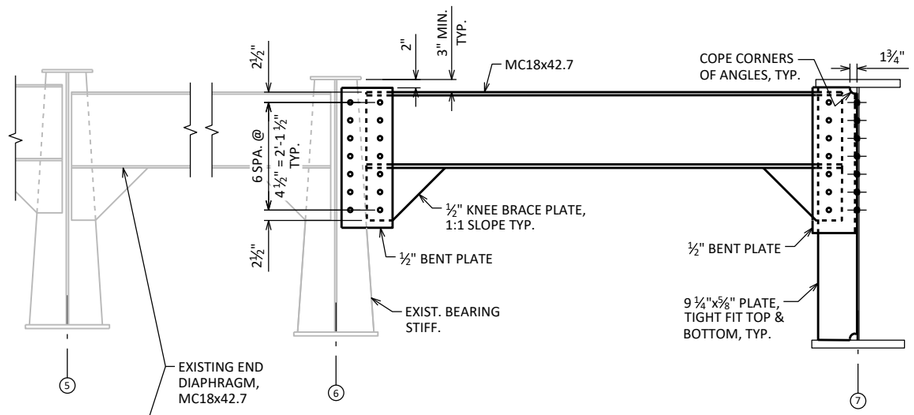


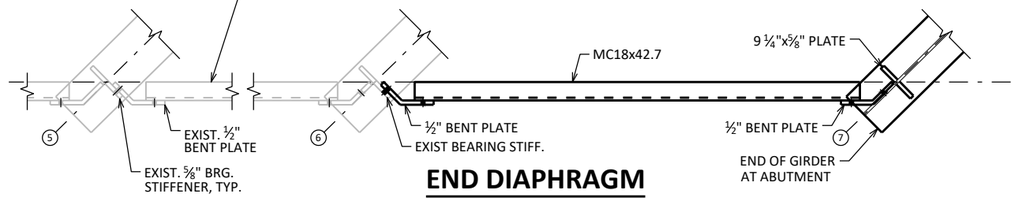
SECTION C-C



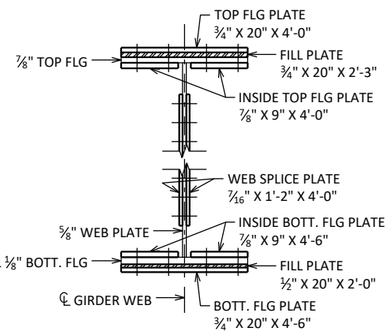
INTERMEDIATE DIAPHRAGM

LOOKING EAST

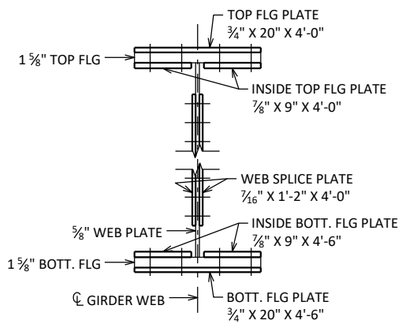




END DIAPHRAGM



SECTION A-A



SECTION B-B

NOTES

WELD SYMBOLS INCLUDE MINIMUM REQUIRED WELD SIZE.

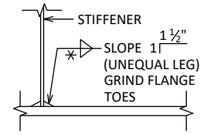
FILLET WELD INTER. STIFFENERS TO COMPRESSION FLG. AND TIGHT FIT TO TENSION FLG. (CAULK TIGHT FIT TO TENSION FLG. WITH PAINTABLE SILICONIZED CAULK).

ALL BOLTED CONNECTIONS SHALL BE FRICTION TYPE USING ¾" DIA. HIGH STRENGTH ASTM A325 BOLTS WITH DOUBLE WASHERS UNLESS NOTES.

ALL FIELD SPLICE BOLTS SHALL BE ¾" ASTM A325 TYPE 1 BOLTS IN STD. HOLES. BOLT THREADS SHALL BE EXCLUDED FROM SHEAR PLANE.

HOLES IN CROSS FRAME CONNECTIONS SHALL NOT BE OVERSIZED.

ALL DIAPHRAGM AND STIFFENER STEEL TO BE ASTM A709 GRADE 36.



DETAIL A

CONNECTION STIFF. DETAIL AT TENSION FLANGE

LEGEND

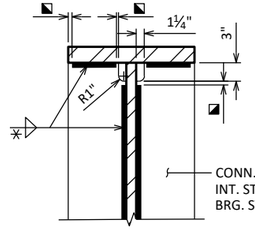
- ⊠ OPTIONAL FLANGE BUTT SPLICE. A FLANGE PLATE OF THE LARGER SIZE MAY BE FURNISHED FULL LENGTH, BUT PAY WEIGHT SHALL BE BASED ON SECTIONS AS DETAILED.
- ◯ INDICATES GIRDER NUMBER

* TABLE OF FILLET WELD SIZES

MATERIAL THICKNESS OF THICKER PART JOINED	† MIN. SIZE OF FILLET WELD
TO ½" INCLUSIVE	3/16"
OVER ½" TO ¾"	¼"
OVER ¾" TO 1½"	◪ 5/16"
OVER 1½" TO 2¼"	◪ ⅜"
OVER 2¼" TO 6"	◪ ½"

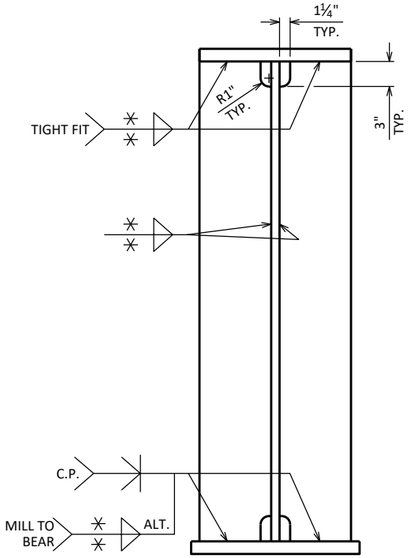
† EXCEPT THAT THE WELD SIZE SHALL NOT EXCEED THE THICKNESS OF THE THINNER PART JOINED

◪ MIN. PASS SIZE IS 5/16"



STIFF. & CONN. STIFF. TO WEB/FLANGE CONN. WELDS

◪ ¼" MIN., ½" MAX. (TYP.)



GIRDER 7 BRG. STIFFENER DETAIL AT ABUT. & PIER

STATE PROJECT NUMBER

2310-09-71

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-66-103

DRAWN BY LTK | PLANS CK'D AA

WIDENING GIRDER 7 DETAILS

SHEET 18 OF 27

510

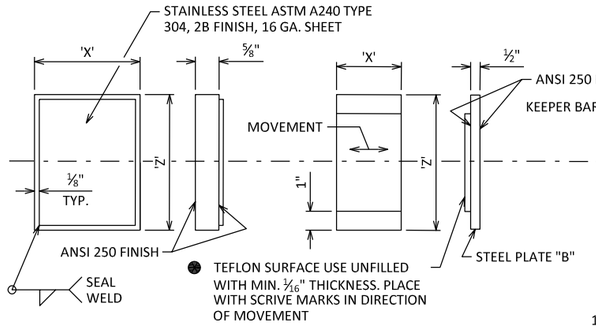
SCALE =

8

8

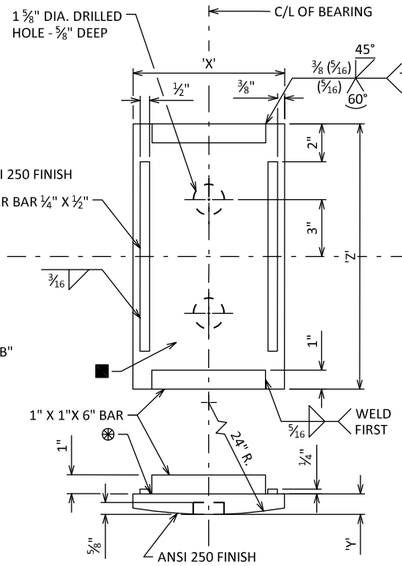
STATE PROJECT NUMBER

2310-09-71

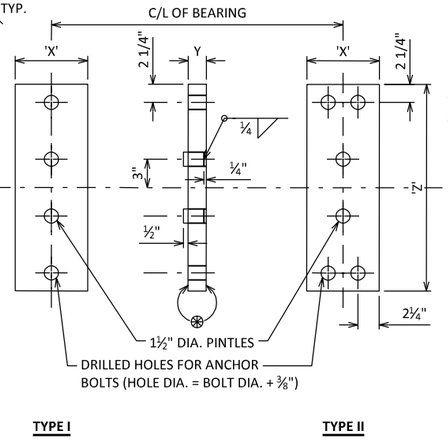


TOP PLATE "A"

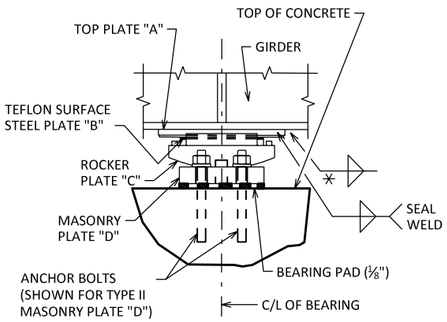
TEFLON SURFACE ON PLATE "B"



ROCKER PLATE "C"



MASONRY PLATE "D"

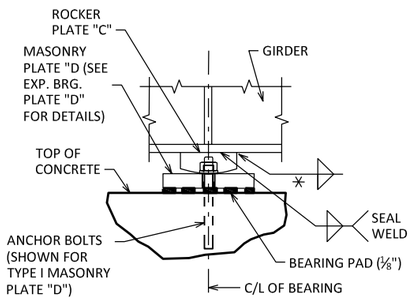


EXPANSION BEARING ASSEMBLY

EXPANSION BEARING

(LOCATED AT G7 WEST & EAST ABUTMENT BEARINGS)

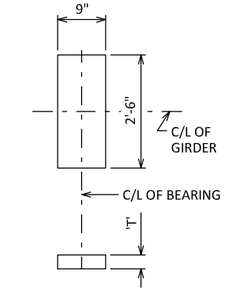
ROCKER PLATE "C"



FIXED BEARING ASSEMBLY

FIXED BEARING

(LOCATED AT G7 PIER BEARING)



PLACE SHIM PLATE BETWEEN BEARING PAD AND MASONRY PLATE "D".

SHIM PLATE DIMENSIONS

'T'	NO. REQ'D.	LOCATION
1/4"	1	WEST ABUTMENT
1/2"	1	WEST ABUTMENT
1/4"	1	EAST ABUTMENT
1/2"	1	EAST ABUTMENT

SHIM PLATE DETAILS

IGNORE SHIM PLATES IN ABOVE TABLE WHEN BOTTOM FLANGE BUTT SPLICE IS NOT USED AND THE LARGER BOTTOM FLANGE PLATE IS EXTENDED TO THE END OF THE GIRDER.

IN LIEU OF USING SHIM PLATES, FABRICATOR MAY INCREASE THICKNESS OF TOP PLATE "A" OR MASONRY PLATE "D" BY "T", THE SHIM PLATE THICKNESS.

BEARING PLATE DIMENSIONS

BEARING TYPE	PLATE "A"		PLATE "B"		PLATE "C"			PLATE "D"			PLATE "D" TYPE	ANCHOR BOLT SIZE	NO. OF BRGS. REQ'D.	LOCATION
	'X'	'Z'	'X'	'Z'	'X'	'Y'	'Z'	'X'	'Y'	'Z'				
EXPANSION (E.)	11"	1'-8"	7"	1'-8"	9"	1 15/16"	1'-10 1/4"	9"	2"	2'-6"	II	1 1/2"	2	WEST & EAST ABUTMENT BEARINGS, G7
FIXED (F.)	--	--	--	--	5"	2 3/8"	1'-8"	1'-4"	3 3/8"	2'-6"	II	1 1/2"	1	PIER BEARING, G7

* TABLE OF FILLET WELD SIZES

MATERIAL THICKNESS OF THICKER PART JOINED.	‡ MIN. SIZE OF FILLET WELD
TO ½" INCLUSIVE	3/16"
OVER ½" TO ¾"	¼"
OVER ¾" TO 1½"	⬟ 5/16"
OVER 1½" TO 2¼"	⬟ ⅜"
OVER 2¼" TO 6"	⬟ ½"

‡ EXCEPT THAT THE WELD SIZE SHALL NOT EXCEED THE THICKNESS OF THE THINNER PART JOINED.

⬟ MIN. PASS SIZE IS 5/16"

BEARING NOTES

ALL BEARINGS ARE SYMMETRICAL ABOUT C/L OF GIRDER AND C/L OF BEARING.

⊛ FINISH THESE SURFACES TO ANSI 250 IF 'Y' DIMENSION IS GREATER THAN 2".

ANCHOR BOLTS, NUTS AND WASHERS SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A153, CLASS C.

ANCHOR BOLTS, NUTS AND WASHERS SHALL CONFORM TO ASTM F1554 GRADE 55, OR MATERIAL OF EQUIVALENT YIELD STRENGTH AND ELONGATION.

ALL MATERIAL IN BEARINGS, INCLUDING SHIM PLATES, BUT EXCLUDING STAINLESS STEEL SHEET, TEFLON SURFACE, PINTLES, ANCHOR BOLTS, NUTS AND WASHERS SHALL CONFORM TO ASTM A709 GRADE 50W.

ALL MATERIAL IN BEARINGS, INCLUDING SHIM PLATES AND BEARING PADS, SHALL BE PAID FOR AT THE UNIT PRICE BID FOR "BEARING ASSEMBLIES EXPANSION B-66-103 " OR "BEARING ASSEMBLIES FIXED B-66-103 ", EACH.

CHAMFER ANCHOR BOLTS PRIOR TO THREADING.

ALL FINISHED SURFACES SHALL BE MACHINE FINISHED BY AN AUTOMATIC PROCESS.

ALL PLATE CUTS SHALL BE MACHINE OR MACHINE FLAME CUTS.

ALL STRUCTURAL STEEL BEARING PLATES SHALL BE FLAT ROLLED STEEL PLATES WITH ALL SURFACES SMOOTH AND FREE FROM WARP AND ALL EDGES SMOOTH, STRAIGHT AND VERTICAL.

PROVIDE ⅛" THICK BEARING PAD THE SAME SIZE AS MASONRY PLATE "D" FOR EACH BEARING.

ANCHOR BOLTS SHALL BE THREADED 3". PROVIDE ONE STANDARD WROUGHT WASHER AND ONE HEX NUT PER BOLT. BOLT LENGTH TO BE 1'-5" FOR 1¼" DIA. AND 1'-10" FOR 1½" DIA. BOLTS. PROJECT ANCHOR BOLTS, MASONRY PLATE "D" THICKNESS + 2¼", ABOVE TOP OF CONCRETE.

CHAMFER TOP OF PINTLES ⅛". DRILL HOLES FOR ALL PINTLES IN MASONRY PLATE "D" FOR A DRIVING FIT.

STEEL PINTLES SHALL CONFORM TO ASTM A449 OR ASTM A572 GRADE 50.

FIXED BEARINGS:
ROCKER PLATE "C" SHALL BE SHOP PAINTED WITH A WELDABLE PRIMER.
MASONRY PLATE "D" SHALL BE GALVANIZED.

EXPANSION BEARINGS:
ROCKER PLATE "C" AND MASONRY PLATE "D" SHALL BE GALVANIZED. TOP PLATE "A" AND STEEL PLATE "B" SHALL BE SHOP PAINTED. USE A WELDABLE PRIMER ON TOP PLATE "A". DO NOT PAINT STAINLESS STEEL OR TEFLON SURFACES.

■ PROVIDE A METHOD FOR HANDLING ROCKER PLATE "C" DURING GALVANIZING.

● BOND STEEL PLATE "B" AND TEFLON WITH ADHESIVE MATERIAL MEETING REQUIREMENTS FOUND IN THE STANDARD SPECIFICATION.

AT INSTALLATION, ENSURE STAINLESS STEEL SLIDING FACE OF THE UPPER ELEMENT AND THE TFE SLIDING FACE OF THE LOWER ELEMENT HAVE THE SURFACE FINISH SPECIFIED AND ARE CLEAN AND FREE OF ALL DUST, MOISTURE, AND OTHER FOREIGN MATTER.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-66-103

DRAWN BY LTK | PLANS CK'D AA

BEARING

SHEET 19 OF 27

511

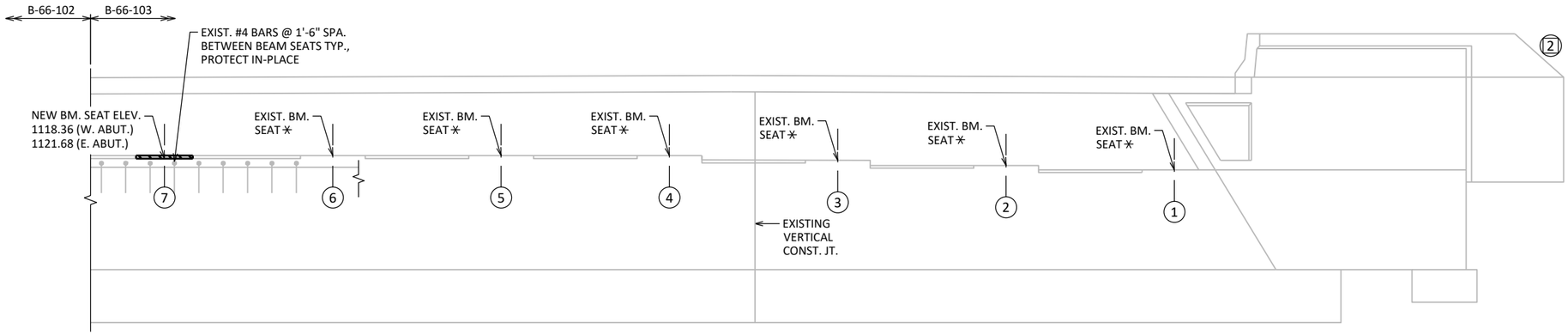
SCALE =

8

8

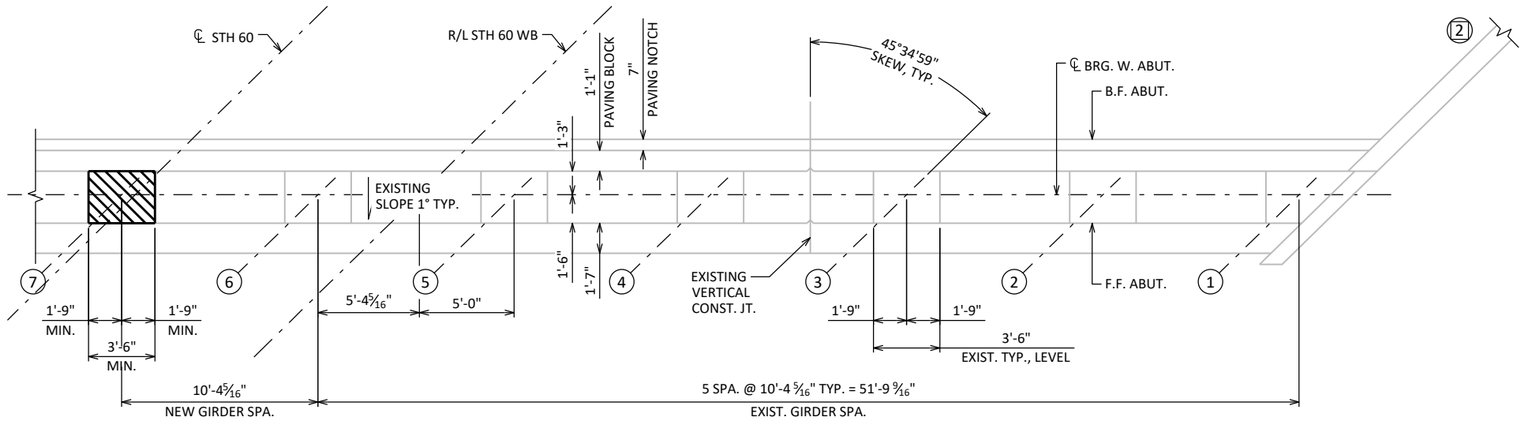
STATE PROJECT NUMBER

2310-09-71



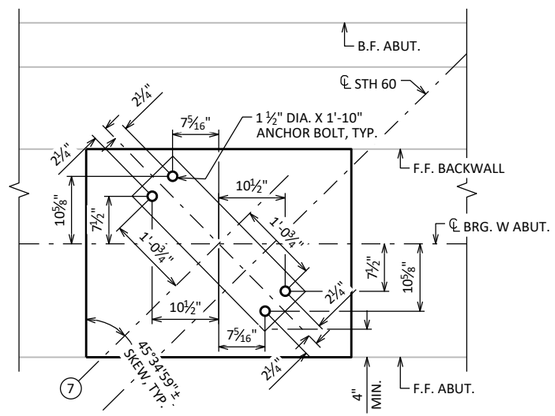
ELEVATION

(LOOKING WEST)
WEST ABUTMENT SHOWN, EAST ABUTMENT SIMILAR
MINIMAL EXISTING REINFORCEMENT SHOWN FOR CLARITY.



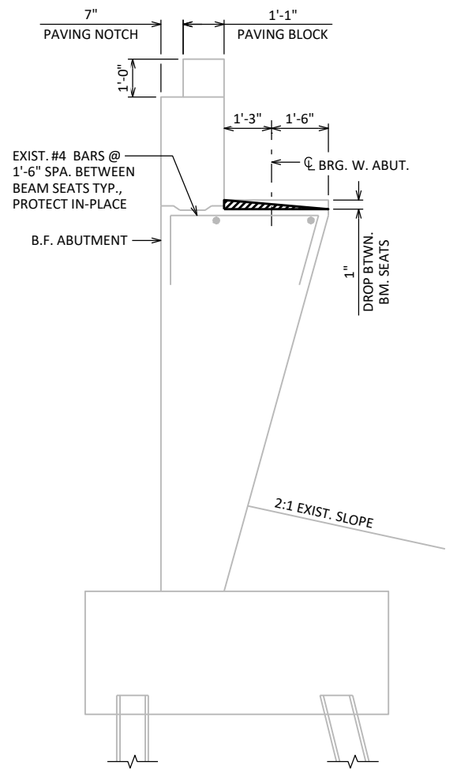
PLAN

WEST ABUTMENT SHOWN, EAST ABUTMENT SIMILAR



BEARING ANCHOR BOLT LAYOUT @ ABUTMENT

(WEST ABUTMENT SHOWN, EAST ABUTMENT SIMILAR)



SECTION AT G7

WEST ABUTMENT SHOWN, EAST ABUTMENT SIMILAR
MINIMAL EXISTING REINFORCEMENT SHOWN FOR CLARITY

BEAM SEAT ELEVATION TABLE

GIRDER NO.	W. ABUT.	E. ABUT.
1	1117.48	1121.60
2	1117.75	1121.77
3	1118.06	1121.88
4	1118.33	1122.05
5	1118.33	1121.91
6	1118.33	1121.77
7	1118.36	1121.68

NOTES

EXISTING ELEVATIONS FROM SURVEY.

LEGEND

- INDICATES GIRDER NUMBER
- INDICATES WING NUMBER
- EXISTING ABUTMENT CONCRETE TO BE REMOVED TO LEVEL FOR NEW GIRDER BEARING. COST INCIDENTAL TO "REMOVING STRUCTURE B-66-103".

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-66-103

DRAWN BY LTK | PLANS CK'D AA

ABUTMENT G7 BEARING LAYOUT

SHEET 20 OF 27

512

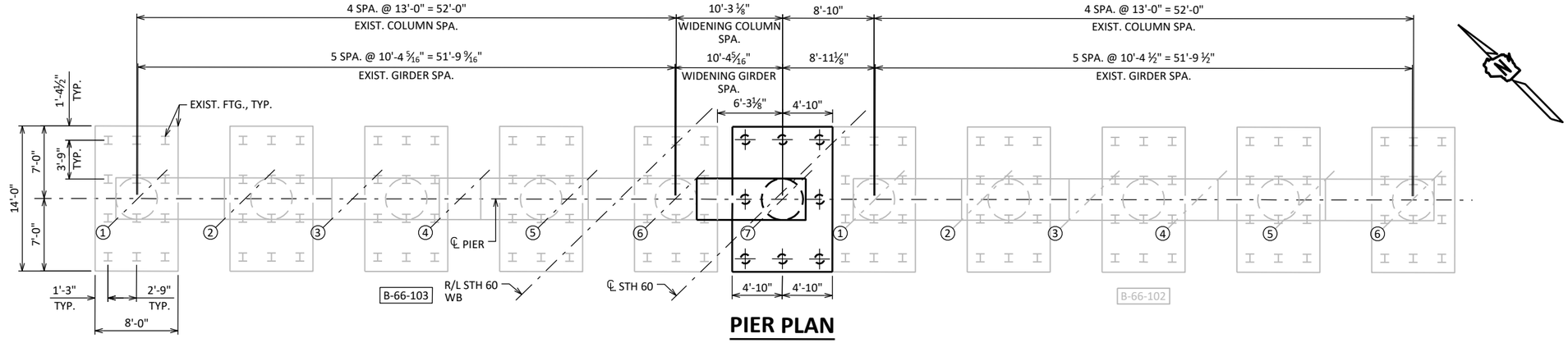
SCALE =

8

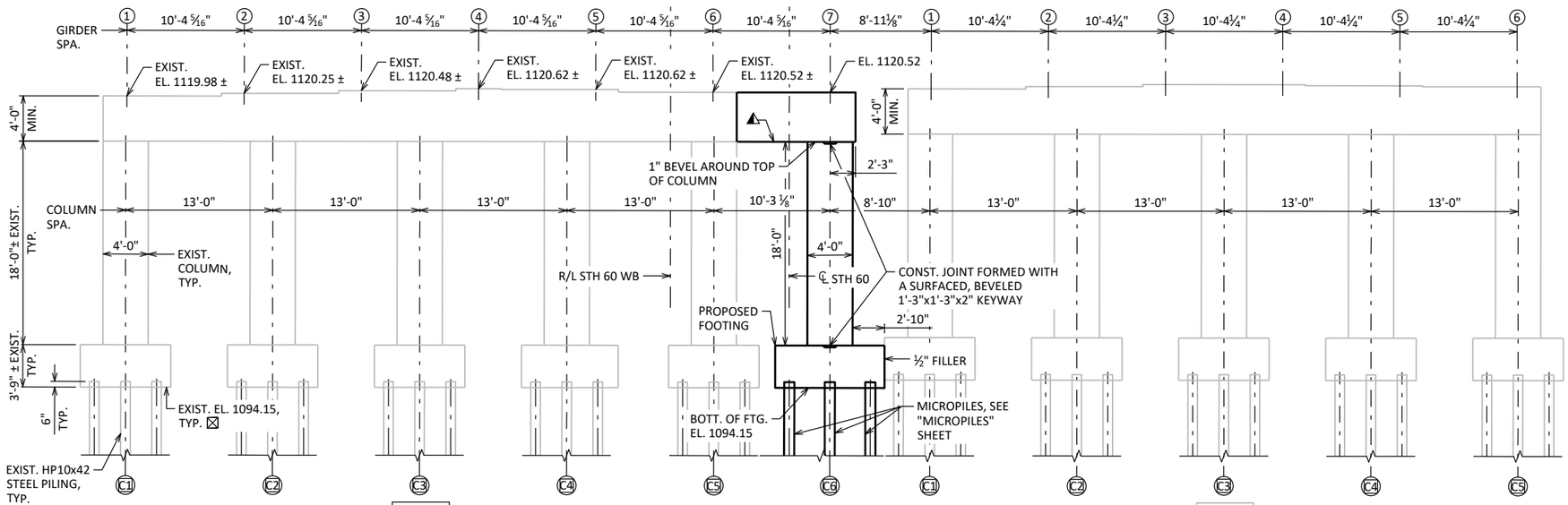
8

STATE PROJECT NUMBER

2310-09-71

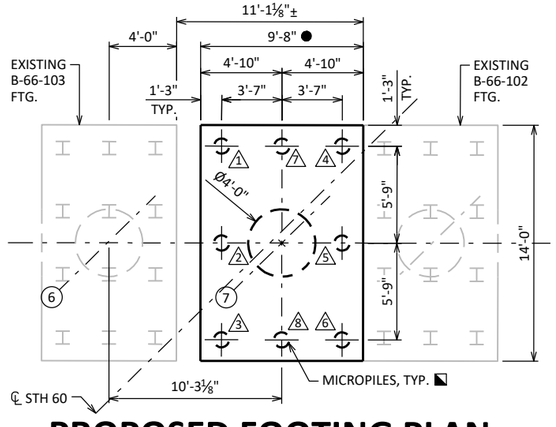


PIER PLAN

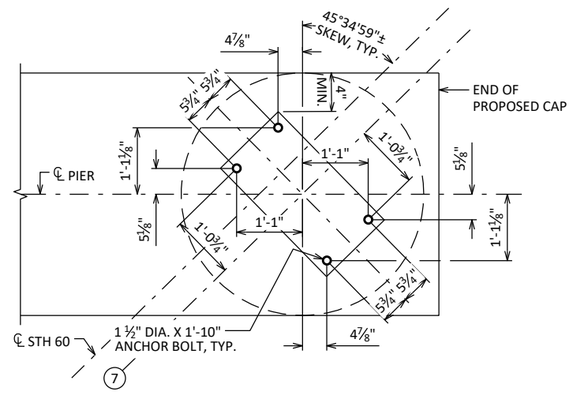


PIER ELEVATION

LOOKING EAST



PROPOSED FOOTING PLAN



BEARING ANCHOR BOLT LAYOUT @ PIER

NOTES

EXISTING ELEVATIONS AND DIMENSIONS TAKEN FROM SURVEY UNLESS NOTED OTHERWISE.

LEGEND

- ◯ INDICATES GIRDER NUMBER
- ▢ INDICATES COLUMN & FOOTING NUMBER
- △ INDICATES MICROPILE NUMBER
- ⊠ EXISTING ELEVATION TAKEN FROM AS-BUILT PLANS
- ◭ BOTTOM OF PROPSED CAP TO BE LEVEL WITH BOTTOM OF EXISTING CAP
- ◪ SUPPORT PROPOSED COLUMN ON MICROPILES USING A TYPE-A METHOD (GRAVITY GROUT ONLY). SEE "MICROPILE" SHEET FOR DETAILS.
- ● DIMENSION DOES NOT INCLUDE ½" FILLER.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-66-103

DRAWN BY LTK | PLANS CK'D AA

PIER WIDENING LAYOUT

SHEET 21 OF 27

513

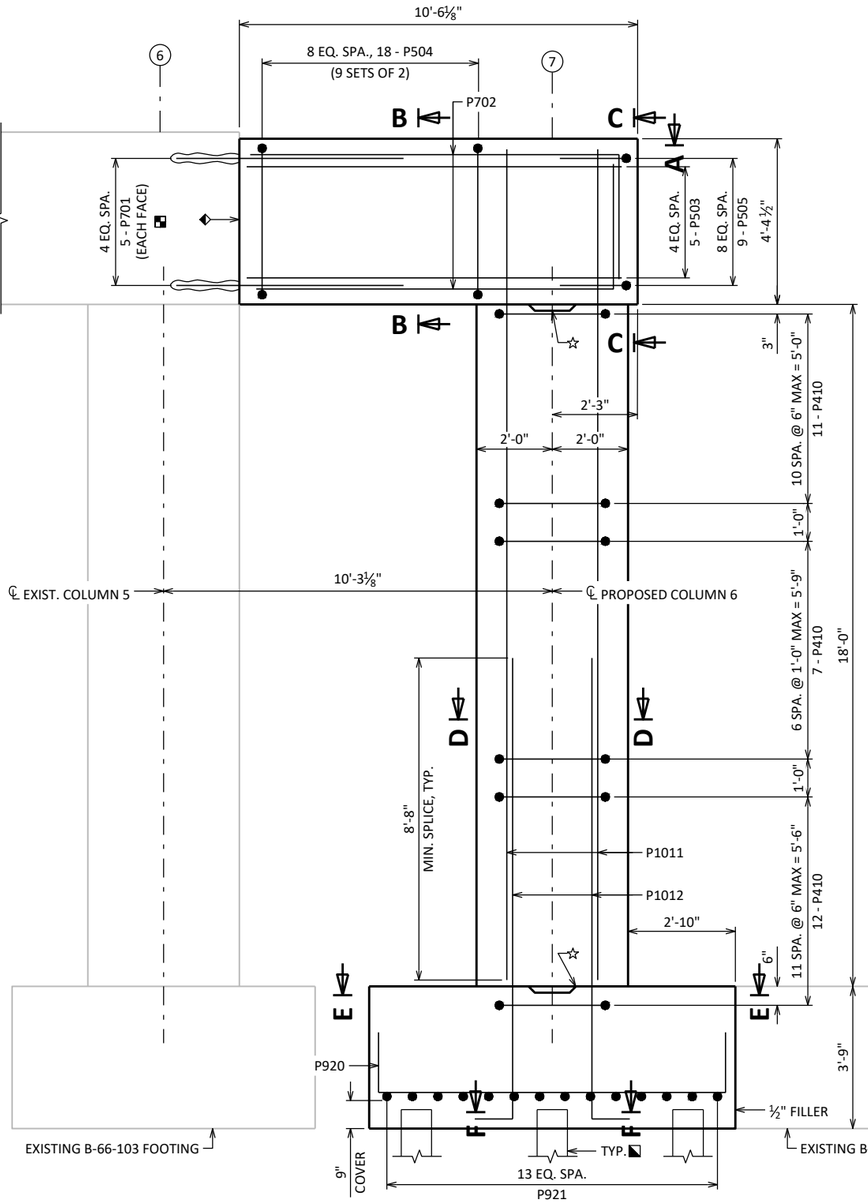
SCALE =

8

8

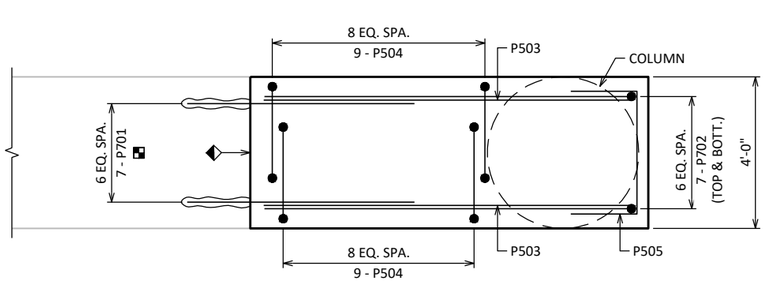
STATE PROJECT NUMBER

2310-09-71

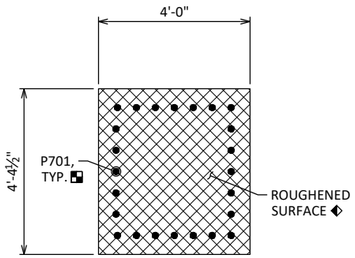


PIER ELEVATION

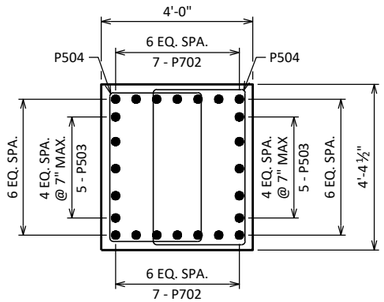
LOOKING EAST



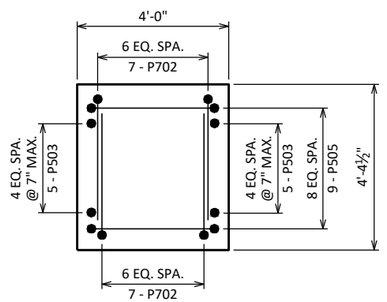
SECTION A-A



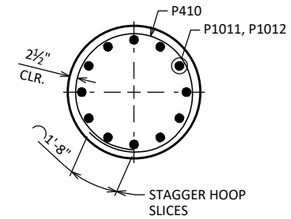
PIER CAP ROUGHENING DETAIL



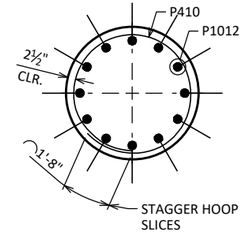
SECTION B-B



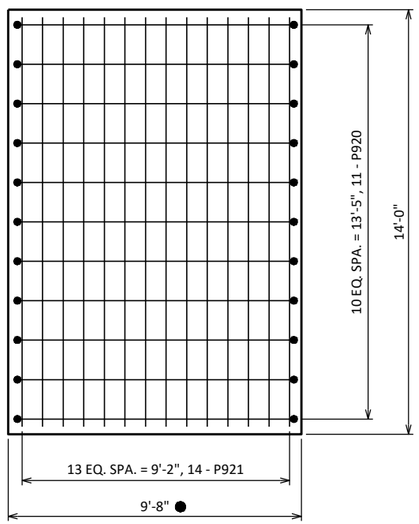
SECTION C-C



SECTION D-D



SECTION F-F



SECTION E-E

LEGEND

- ◯ GIRDER NUMBER
- ☆ 1'-3" X 2'-0" X 4" DEEP CONSTRUCTION JOINT FORMED BY BEVELED KEYWAY
- ◘ NO. 7 ADHESIVE ANCHORS, WITH MAX. EMBEDMENT 1'-5 ½" AND MIN. SPACING AND EDGE DISTANCE 6"
- ◆ ROUGHEN EXISTING CONCRETE CAP SURFACE TO AMPLITUDE OF ¼"
- ◣ SUPPORT PROPOSED COLUMN ON MICROPILES USING A TYPE-A METHOD (GRAVITY GROUT ONLY). SEE "MICROPILE" SHEET FOR DETAILS.
- ● DIMENSION DOES NOT INCLUDE ½" FILLER.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-66-103

DRAWN BY	LTK	PLANS CK'D	AA

PIER WIDENING REINFORCEMENT

SHEET 22 OF 27

514

SCALE =

8

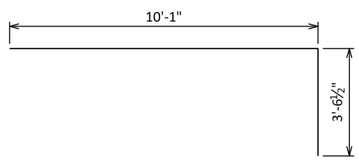
8

STATE PROJECT NUMBER

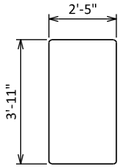
2310-09-71

BILL OF BARS: PIER

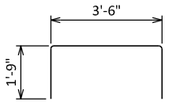
BAR MARK	NO. REQ'D.	LENGTH	COAT	STAINLESS STEEL	BENT	BAR SERIES	LOCATION
P701	24	4'-0"	X				CAP - LONGITUDINAL ANCHORS
P702	14	13'-5"	X		X		CAP - LONGITUDINAL, TOP & BOTTOM L-BAR
P503	10	10'-2"	X				CAP - LONGITUDINAL, EAST & WEST FACES
P504	18	13'-4"	X		X		CAP - STIRRUP
P505	9	6'-9"	X		X		CAP - END, U-BAR
P410	30	12'-11"	X		X		COLUMN - STIRRUP
P1011	12	21'-11"	X				COLUMN - VERTICAL
P1012	12	12'-11"	X		X		COLUMN - DOWELS
P920	11	11'-10"			X		FOOTING - TRANSVERSE, HOOKED
P921	14	13'-6"					FOOTING - LONGITUDINAL, STRAIGHT



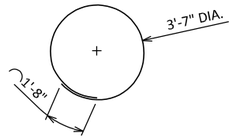
P702



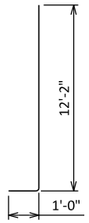
P504



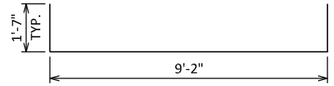
P505



P410



P1012



P920

LEGEND

NO. 7 ADHESIVE ANCHORS, WITH MAX. EMBEDMENT 1'-5 ½" AND MIN. SPACING AND EDGE DISTANCE 6"

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-66-103

DRAWN BY LTK | PLANS CK'D AA

BILL OF BARS: PIER WIDENING

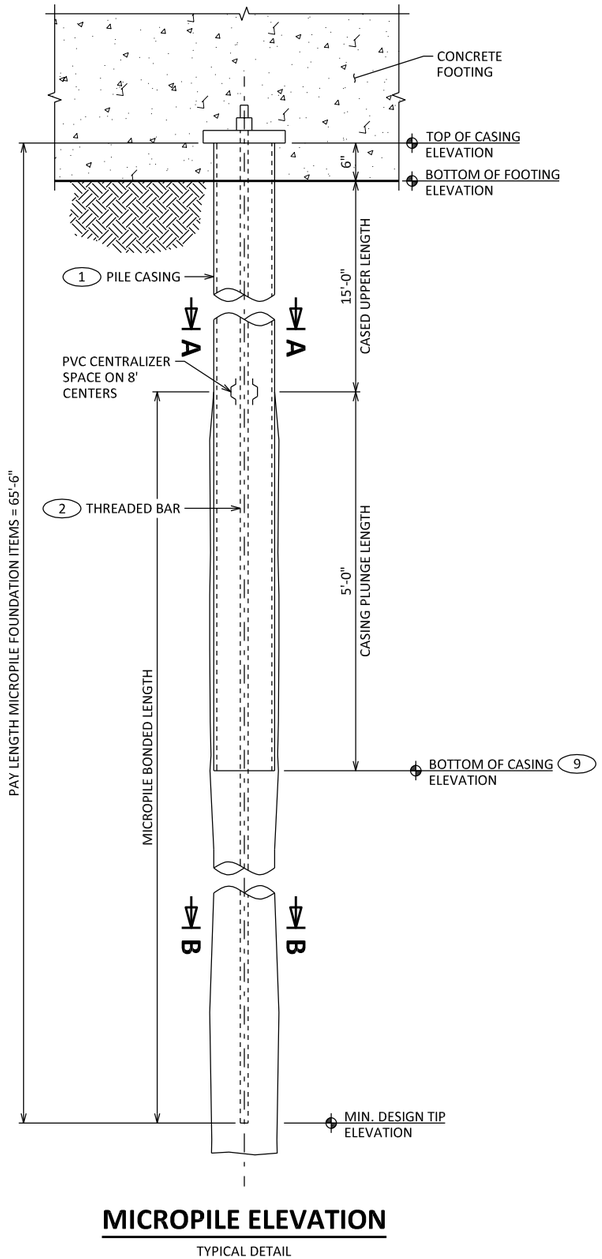
SHEET 23 OF 27

515

SCALE =

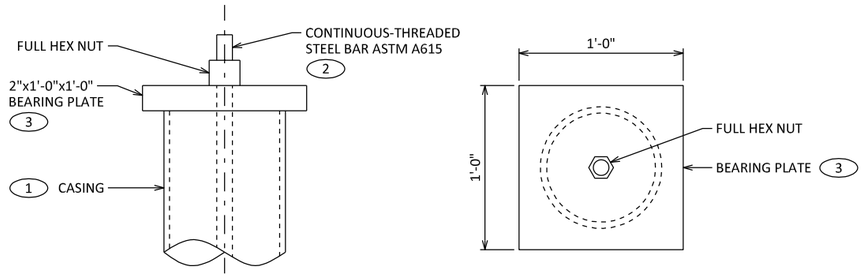
STATE PROJECT NUMBER

2310-09-71

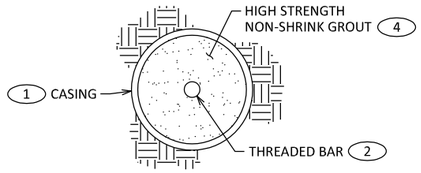


MICROPILE ELEVATION

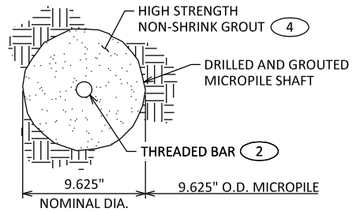
TYPICAL DETAIL



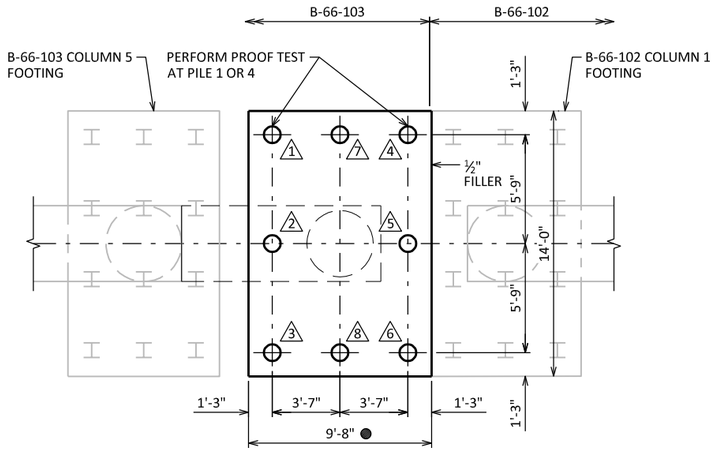
9.625" O.D. MICROPILE DETAIL



SECTION A-A



SECTION B-B



MICROPILE LAYOUT

NOTE

PROPOSED WIDENING COLUMN SUPPORTED ON MICROPILES USING TYPE-A METHOD (GRAVITY GROUT ONLY). ESTIMATED MICROPILE LENGTH IS 65'-0" TO DEVELOP FACTORED AXIAL RESISTANCES OF 120 KIP. MICROPILE LENGTH IS MEASURED BELOW BOTTOM OF FOOTING AND INCLUDES CASED LENGTH FOLLOWED BY UNCASED LENGTH HAVING NOMINAL 9.625-INCH DIAMETER.

PROVIDE PROOF AND VERIFICATION TESTS AS REQUIRED IN THE SPECIAL PROVISIONS. VERIFICATION PILE IS A SACRIFICIAL PILE THAT MUST BE LOCATED OUTSIDE OF THE PROPOSED FOOTING LIMITS. PILE LENGTH REQUIRED FOR THE VERIFICATION PILE INSTALLATION IS INCLUDED WITH THE BID ITEM "9.625-INCH MICROPILE FOUNDATION."

LEGEND

1. CASING SHALL BE 9.625" O.D. x 0.472" THICK API 5CT GRADE N80 IN ACCORDANCE WITH THE SPECIAL PROVISIONS.
2. THREADED REINFORCING BAR SHALL BE EPOXY COATED #11 CONTINUOUS THREADED BAR FOR 9.625" O.D. MICROPILES IN ACCORDANCE WITH ASTM A615 GRADE 75.
3. BEARING PLATE SHALL MEET REQUIREMENTS OF ASTM A709 GRADE 50.
4. GROUT SHALL HAVE MINIMUM 3 DAY COMPRESSIVE STRENGTH OF 2000 PSI IN ACCORDANCE WITH THE SPECIAL PROVISIONS.
5. MICROPILE CASING, THREADED BAR, BEARING PLATES, PVC CENTRALIZERS, AND HIGH STRENGTH NON-SHRINK GROUT ARE INCLUDED IN MICROPILE FOUNDATION BID ITEMS.
6. PAY LENGTH = TOP OF CASING EL. - MIN. DESIGN TIP EL.
7. BONDED LENGTH = BOTTOM OF CASING EL. - MIN. DESIGN TIP EL. + 5'-0" (PLUNGE LENGTH)
8. F.D.L. = FACTORED DESIGN LOAD
9. END OF CASING. THE PLUNGE LENGTH IS NOT INCLUDED IN THE DESIGN CALCULATIONS, AND IS ASSUMED TO BE ZERO FOR STRUCTURAL CAPACITY PURPOSES.

△X MICROPILE NUMBER

● DIMENSION DOES NOT INCLUDE ½" FILLER.

MICROPILE DATA

MICROPILE NO.	MICROPILE O.D. (IN)	F.D.L. (KIPS)	TOP OF CASING EL. (FT)	BOTTOM OF FOOTING EL. (FT)	BOTTOM OF CASING EL. (FT)	MIN. DESIGN TIP EL. (FT)	ESTIMATED BOND ZONE LENGTH (FT)	CASED LENGTH (FT)	PROOF LOAD (KIP)	VERIFICATION LOAD (KIP)
1-9	9.625	120	1094.65	1094.15	1074.15	1029.15	50.0	20.5	120	180

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-66-103

DRAWN BY LTK | PLANS CK'D AA

MICROPILES

SHEET 24 OF 27

516

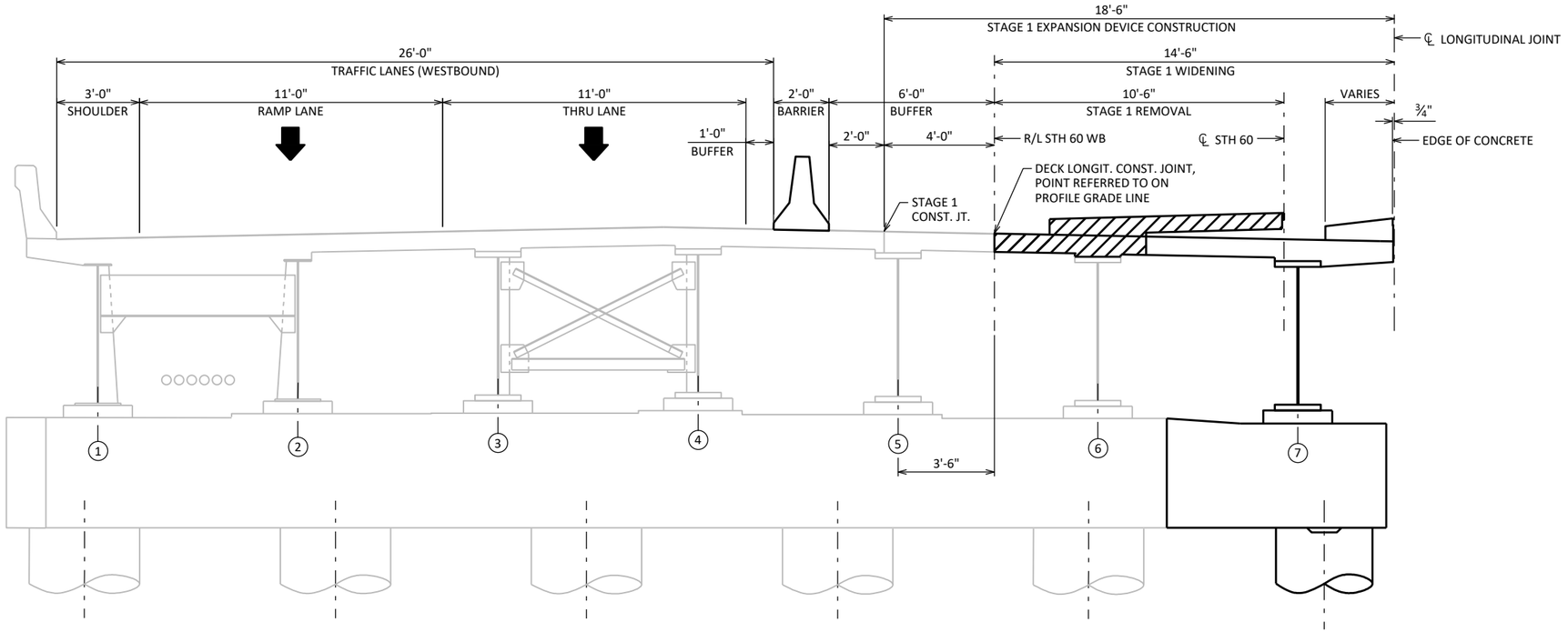
SCALE =

8

8

STATE PROJECT NUMBER

2310-09-71



STAGE 1 CONSTRUCTION SECTION - REMOVAL & CONSTRUCTION

LOOKING EAST

NOTES

FOR TRAFFIC CONTROL AND STAGE CONSTRUCTION DETAILS, SEE ROADWAY PLANS. DO NOT PIN TEMPORARY BARRIER TO BRIDGE DECK.

STAGING OR CLOSURE FOR THIN POLYMER OVERLAY IS BEING COORDINATED WITH ROADWAY DESIGN TEAM.

A MINIMUM OF 2'-7" OF THE EXISTING TOP AND BOTTOM TRANSVERSE BAR STEEL REINFORCEMENT SHALL BE EXPOSED, CLEANED, STRAIGHTENED, EPOXY PAINTED AND INCORPORATED INTO NEW DECK. LAP EXISTING BARS WITH NEW STEEL. WORK IS INCIDENTAL TO THE BID ITEM "REMOVING STRUCTURE B-66-103".

PREPARATION AND COATING OF TOP FLANGE FOR GIRDER 6 TO BE COMPLETED PRIOR TO REINFORCEMENT PLACEMENT. PROTECT EXISTING REINFORCEMENT FROM DAMAGE DURING BLAST CLEANING.

SEAL THE LONGITUDINAL CONSTRUCTION JOINT WITH AN APPROVED POURABLE CRACK SEALER PER SECTION 502.2.11 AND 502.3.13.1 OF THE STANDARD SPEC. WORK IS INCIDENTAL TO THE BID ITEM "CONCRETE MASONRY STRUCTURES."

LEGEND

(X) GIRDER NUMBER

REMOVE EXISTING MEDIAN AND DECK

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-66-103

DRAWN BY LTK | PLANS CK'D AA

STAGE 1 CONSTRUCTION SECTIONS

SHEET 25 OF 27

517

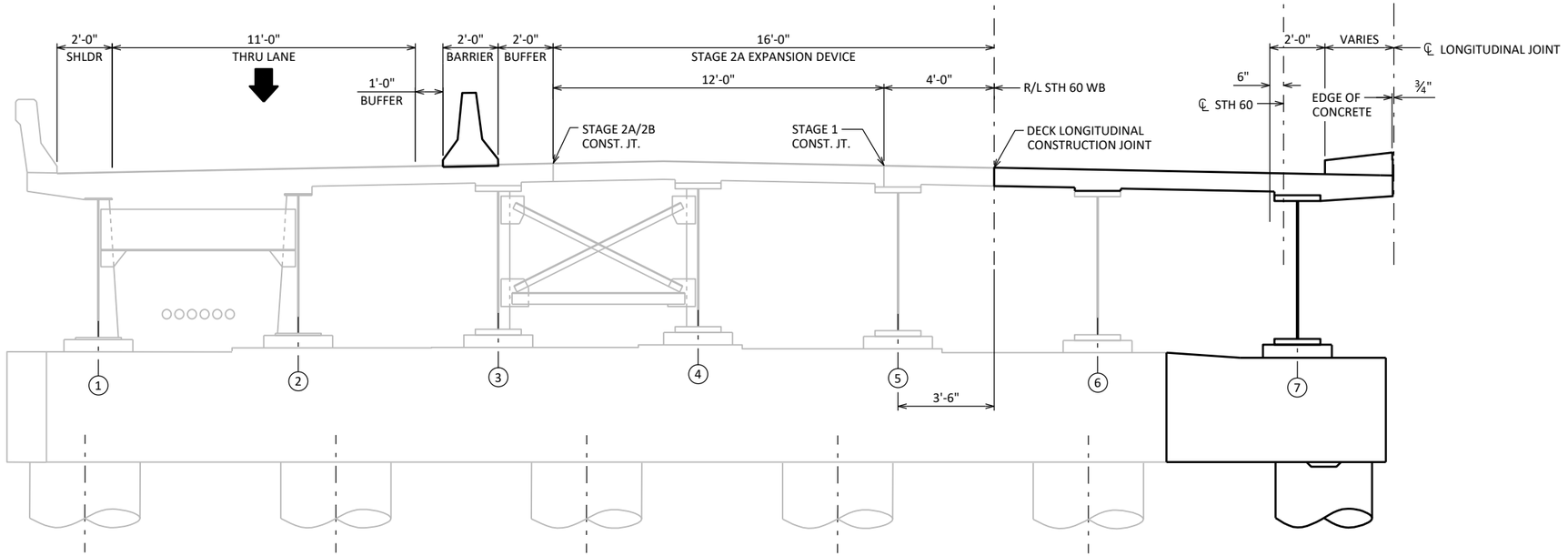
SCALE = 5

8

8

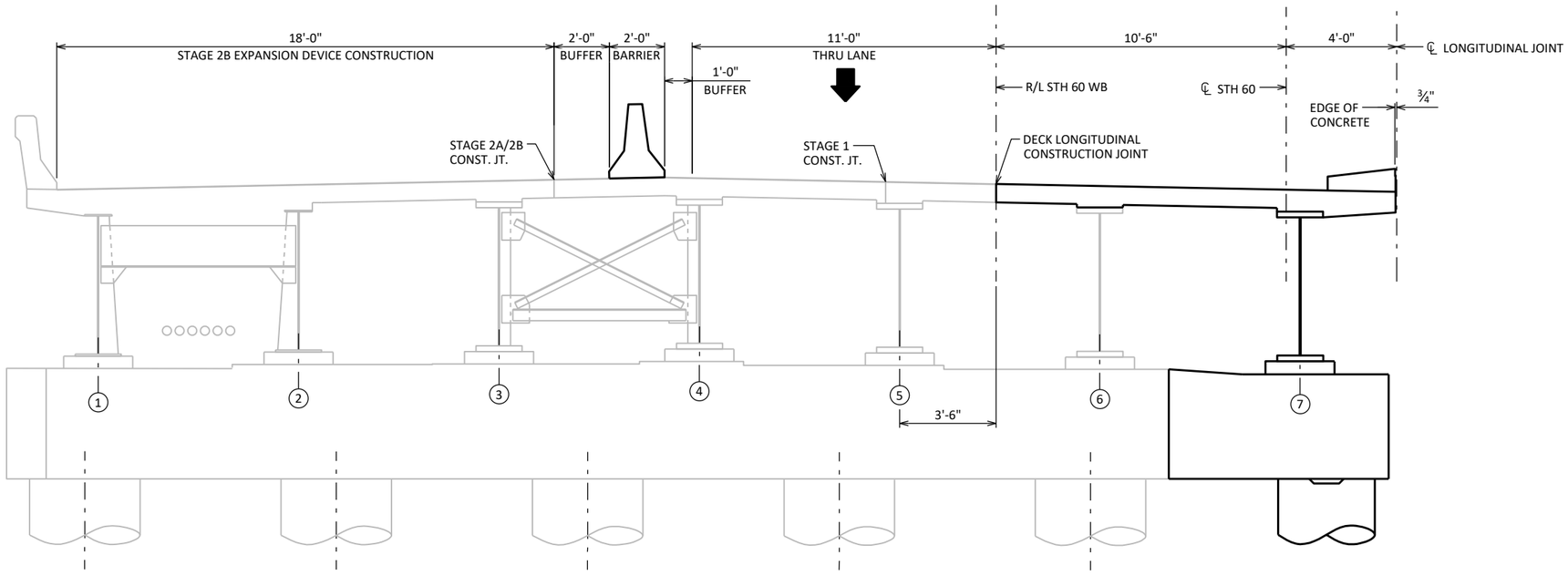
STATE PROJECT NUMBER

2310-09-71



STAGE 2A CONSTRUCTION SECTION - REMOVAL & CONSTRUCTION

LOOKING EAST



STAGE 2B CONSTRUCTION SECTION - REMOVAL & CONSTRUCTION

LOOKING EAST

NOTES

FOR TRAFFIC CONTROL AND STAGE CONSTRUCTION DETAILS, SEE ROADWAY PLANS. DO NOT PIN TEMPORARY BARRIER TO BRIDGE DECK.

STAGING OR CLOSURE FOR THIN POLYMER OVERLAY IS BEING COORDINATED WITH ROADWAY DESIGN TEAM.

A MINIMUM OF 2'-7" OF THE EXISTING TOP AND BOTTOM TRANSVERSE BAR STEEL REINFORCEMENT SHALL BE EXPOSED, CLEANED, STRAIGHTENED, EPOXY PAINTED AND INCORPORATED INTO NEW DECK. LAP EXISTING BARS WITH NEW STEEL. WORK IS INCIDENTAL TO THE BID ITEM "REMOVING STRUCTURE B-66-103".

PREPARATION AND COATING OF TOP FLANGE FOR GIRDER 6 TO BE COMPLETED PRIOR TO REINFORCEMENT PLACEMENT. PROTECT EXISTING REINFORCEMENT FROM DAMAGE DURING BLAST CLEANING.

SEAL THE LONGITUDINAL CONSTRUCTION JOINT WITH AN APPROVED POURABLE CRACK SEALER PER SECTION 502.2.11 AND 502.3.13.1 OF THE STANDARD SPEC. WORK IS INCIDENTAL TO THE BID ITEM "CONCRETE MASONRY STRUCTURES."

LEGEND

(X) GIRDER NUMBER

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-66-103

DRAWN BY LTK | PLANS CK'D AA

STAGE 2 CONSTRUCTION SECTIONS

SHEET 26 OF 27

518

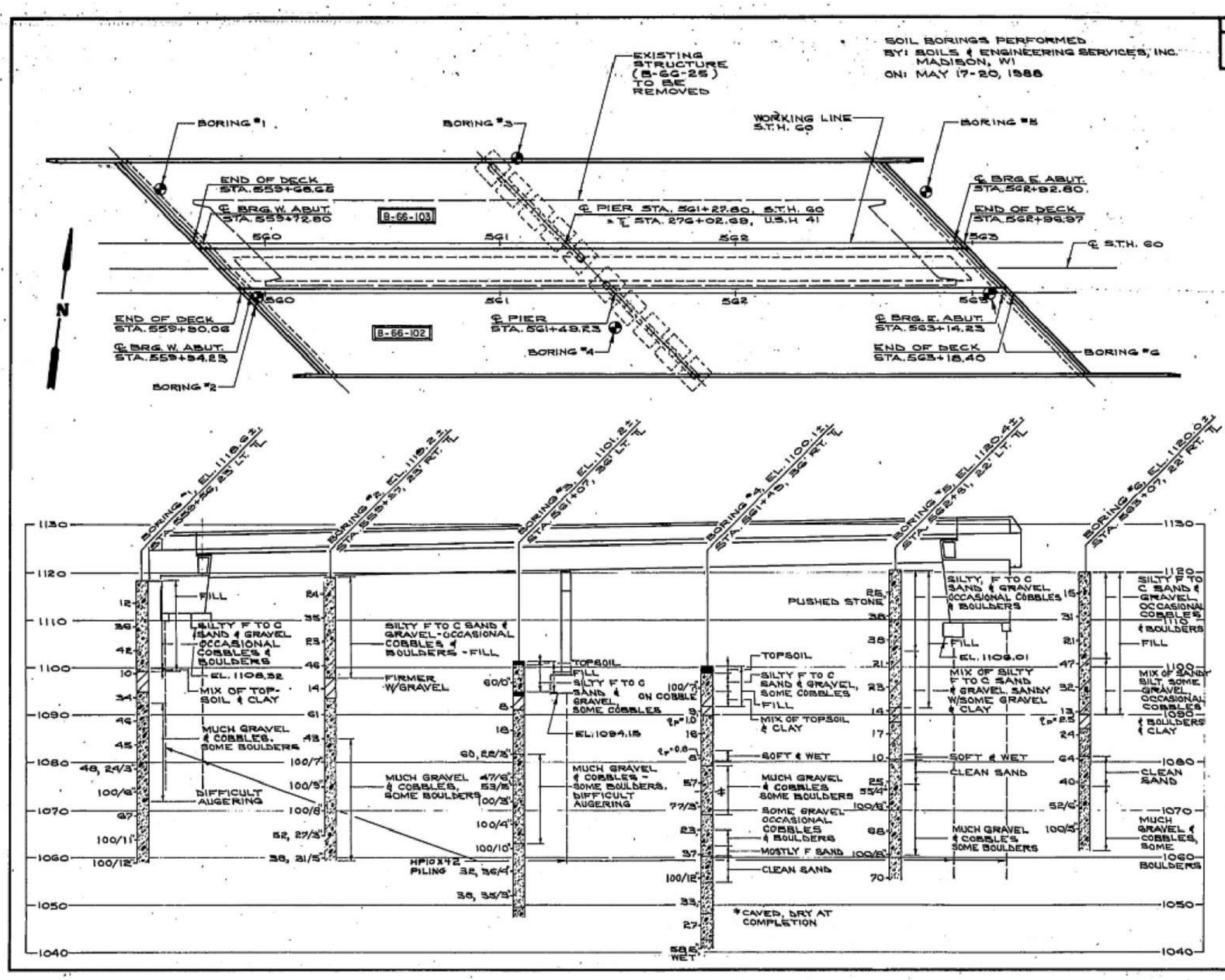
SCALE = 5

8

8

STATE PROJECT NUMBER

2310-09-71



STATE PROJECT NUMBER	SHEET NO.
2310-04-71	8.21

ABBREVIATIONS

F — Fine M — Medium C — Coarse
Ws — Weathered So — Sound

MATERIAL SYMBOLS

Topsoil, Silt, Sandstone, Sand, Peat, Limestone, Gravel, Clay, Igneous Rock

LEGEND OF PROBING

95/6=95 Blows for 6" Penetration
Probing taken with a 350# wt. Falling 18" on a 2 O. D. Point.
Probing No
Sta
Elevation
7 Average Blows Per Foot
Refusal 95/6

LEGEND OF BORING

Boring No.
Elev
Sta
Unconfined Strength — 7.7
Blows Per Ft. Using 140# Wt. Falling 30"
Wash Sample
Shelby Tube — S. T.
Ground Water Elevation
No Ground Water Observed Above This Elevation
Sandy Gravel
F
Boulders or Cobbles
Sand
Silty Clay
So
Limestone

Unless otherwise specified, the blows per foot at the locations indicated are based on driving a 2" O. D. x 1.4" I. D. split spoon sampler with a 140# hammer having a free fall of 30". The blow count is taken in undisturbed soil immediately below a cased or open hole eliminating side friction on the drive pipe.

SUBSURFACE EXPLORATION FOR FOUNDATION DESIGN AND BIDDERS INFORMATION

To obtain relative data concerning the character of material in and upon which the foundation might be built, borings and/or soundings were made at points approximately as indicated on this drawing. The data presented herein represents the findings of the subsurface explorations made. However, because the depths investigated are limited and the area of the borings and or soundings is very small in relation to the entire area the Division of Highways does not warrant conditions below the depths investigated or that the classification of material encountered in these investigations is necessarily typical of the entire site.

No.	Date	Revision	By

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

STRUCTURE B-66-103

Const. Spec. 1989 | Drawn By PCC | Plans Checked J.J.K.

SUBSURFACE EXPLORATION | SHEET 3 OF 19 | X82759

121.9

NOTES:

THE PROPOSED MICROPILE TIP ELEVATION IS BELOW THE BOTTOM OF THE EXISTING SOIL BORINGS. DRILLING CONDITIONS BELOW THE EXISTING BORINGS ARE UNKNOWN, AND THE CONTRACTOR SHOULD BE PREPARED FOR THE POSSIBILITY OF DIFFERING CONDITIONS.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-66-103

DRAWN BY LTK | PLANS CK'D AA

ORIGINAL SUBSURFACE EXPLORATION

SHEET 27 OF 27
519

SCALE = N/A

8

8

DIVISION - STH 60

STATION	REAL STATION	DISTANCE	AREA (SF)				INCREMENTAL VOL (CY) (UNADJUSTED)				CUMULATIVE VOL (CY)				
			CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	EBS	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	EBS	CUT 1.00	EXPANDED FILL 1.20	EXPANDED EBS BACKFILL 1.00	REDUCED EBS IN FILL 1.00	MASS ORDINATE
							NOTE 1	NOTE 2	NOTE 3		NOTE 1		NOTE 5	NOTE 7	NOTE 8
341+00.00	34100.00	0.00	24.72	6.73	0.13	0.00	0	0	0	0	0	0	0	0	0
341+50.00	34150.00	50	27.46	7.17	1.34	0.00	48	13	1	0	48	1	0	0	34
342+00.00	34200.00	50	28.27	7.61	2.97	0.00	52	14	4	0	100	6	0	0	67
342+50.00	34250.00	50	29.04	8.05	8.70	0.00	53	15	11	0	153	19	0	0	92
343+00.00	34300.00	50	28.78	8.49	2.37	0.00	54	15	10	0	207	31	0	0	119
343+29.27	34329.27	29.27	27.74	8.75	1.09	0.00	31	9	2	0	238	34	0	0	138
345+60.72	34560.72	231.45	11.38	7.00	0.88	0.00	168	67	8	0	406	43	0	0	230
346+00.00	34600.00	39.28	9.81	3.97	0.00	0.00	15	8	1	0	421	44	0	0	236
346+50.00	34650.00	50	19.05	14.74	0.05	0.00	27	17	0	0	448	44	0	0	246
346+83.00	34683.00	33	16.83	7.66	0.00	0.00	22	14	0	0	470	44	0	0	254
347+15.00	34715.00	32	12.65	4.01	0.71	0.00	17	7	0	0	487	44	0	0	264
347+25.00	34725.00	10	10.97	4.01	55.81	0.00	4	1	10	0	491	56	0	0	255
347+50.00	34750.00	25	58.39	4.35	152.61	0.00	32	4	96	0	523	172	0	0	167
347+75.00	34775.00	25	78.78	6.71	214.91	0.00	64	5	170	0	587	376	0	0	22
348+05.53	34805.53	30.53	92.00	6.20	149.95	0.00	97	7	206	0	684	623	0	0	-135
348+30.51	34830.51	24.98	85.36	6.27	65.21	0.00	82	6	100	0	766	743	0	0	-179
348+55.49	34855.49	24.98	43.95	5.94	0.01	0.00	60	6	30	0	826	779	0	0	-161
349+00.00	34900.00	44.51	47.00	3.53	0.01	0.00	75	8	0	0	901	779	0	0	-94
349+35.86	34935.86	35.86	37.67	1.65	0.06	0.00	56	3	0	0	957	779	0	0	-41
349+50.86	34950.86	15	14.58	1.81	0.01	0.00	15	1	0	0	972	779	0	0	-27

DIVISION - IH 41

STATION	REAL STATION	DISTANCE	AREA (SF)				INCREMENTAL VOL (CY) (UNADJUSTED)				CUMULATIVE VOL (CY)				
			CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	EBS	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	EBS	CUT 1.00	EXPANDED FILL 1.20	EXPANDED EBS BACKFILL 1.00	REDUCED EBS IN FILL 1.00	MASS ORDINATE
							NOTE 1	NOTE 2	NOTE 3		NOTE 1		NOTE 5	NOTE 7	NOTE 8
266+23.84	26623.84	0.00	28.56	9.10	0.08	0.00	0	0	0	0	0	0	0	0	0
266+50.00	26650.00	26.16	35.16	9.18	0.00	0.00	31	9	0	0	31	0	0	0	22
267+00.00	26700.00	50	51.60	9.53	0.00	0.00	80	17	0	0	111	0	0	0	85
267+55.56	26755.56	55.56	61.80	10.21	0.00	0.00	117	20	0	0	228	0	0	0	182

NOTES:	
1 - CUT	CUT INCLUDES SALVAGED/UNUSABLE PAVEMENT MATERIAL
2 - SALVAGED/UNUSABLE PAVEMENT MATERIAL	THIS DOES NOT SHOW UP IN CROSS SECTIONS
3 - FILL	DOES NOT INCLUDE UNUSABLE PAVEMENT EXC VOLUME
5 - EXPANDED EBS	WILL BE BACKFILLED WITH GRANULAR BACKFILL (OR CUT, OR BORROW)
7 - REDUCED EBS IN FILL	REDUCED EBS EXCAVATION THAT CAN BE USED IN FILL
8 - MASS ORDINATE	IF MARSH AND EBS TO BE BACKFILLED WITH GRANULAR: [CUT - SALVAGED PAVT - ((FILL - EXPANDED ROCK) * FILL FACTOR)]

DIVISION - RAMP A

STATION	REAL STATION	DISTANCE	AREA (SF)				INCREMENTAL VOL (CY) (UNADJUSTED)				CUMULATIVE VOL (CY)				
			CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	EBS	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	EBS	CUT	EXPANDED FILL	EXPANDED EBS BACKFILL	REDUCED EBS IN FILL	MASS ORDINATE
							NOTE 1	NOTE 2	NOTE 3		1.00 NOTE 1	1.20	1.00 NOTE 5	1.00 NOTE 7	NOTE 8
267+58.48	26758.48	0.00	61.62	10.25	0.00	0.00	0	0	0	0	0	0	0	0	0
267+80.00	26780.00	21.52	70.81	10.61	0.00	0.00	53	8	0	0	53	0	0	0	45
268+00.00	26800.00	20	75.91	11.03	0.00	0.00	54	8	0	0	107	0	0	0	91
268+50.00	26850.00	50	56.80	12.28	0.00	0.00	123	22	0	0	230	0	0	0	192
269+00.00	26900.00	50	54.16	13.89	0.00	0.00	103	24	0	0	333	0	0	0	271
269+27.50	26927.50	27.5	34.51	14.98	0.35	0.00	45	15	0	0	378	0	0	0	301
269+50.00	26950.00	22.5	31.13	15.89	2.27	0.00	27	13	1	0	405	1	0	0	314
269+74.42	26974.42	24.42	33.63	17.03	9.62	0.00	29	15	5	0	434	7	0	0	322
270+00.00	27000.00	25.58	38.20	18.27	23.47	0.00	34	17	16	0	468	26	0	0	320
270+50.00	27050.00	50	68.05	21.04	57.23	0.00	98	36	75	0	566	116	0	0	292
271+00.00	27100.00	50	117.37	10.72	96.52	0.00	172	29	142	0	738	287	0	0	264
271+50.00	27150.00	50	212.88	10.25	155.06	0.00	306	19	233	0	1044	566	0	0	272
272+00.00	27200.00	50	357.70	10.45	203.56	0.00	528	19	332	0	1572	965	0	0	382
272+50.00	27250.00	50	538.71	10.83	272.02	0.00	830	20	440	0	2402	1493	0	0	664
273+00.00	27300.00	50	729.68	11.38	336.39	0.00	1174	21	563	0	3576	2168	0	0	1142
273+50.00	27350.00	50	927.34	11.55	367.28	0.00	1534	21	652	0	5110	2951	0	0	1872
273+55.48	27355.48	5.48	946.55	11.51	372.70	0.00	190	2	75	0	5300	3041	0	0	1970
274+00.00	27400.00	44.52	1065.32	11.63	418.14	0.00	1659	19	652	0	6959	3823	0	0	2828
274+25.00	27425.00	25	1113.58	11.65	439.36	0.00	1009	11	397	0	7968	4300	0	0	3349
274+50.00	27450.00	25	1152.36	11.71	454.78	0.00	1049	11	414	0	9017	4796	0	0	3891
275+00.00	27500.00	50	1143.46	11.44	503.96	0.00	2126	21	888	0	11143	5862	0	0	4930
275+50.00	27550.00	50	889.30	10.97	536.55	0.00	1882	21	963	0	13025	7018	0	0	5635
276+00.00	27600.00	50	697.78	10.55	546.14	0.00	1470	20	1002	0	14495	8220	0	0	5883
276+50.00	27650.00	50	511.34	10.51	520.98	0.00	1120	19	988	0	15615	9406	0	0	5798
277+00.00	27700.00	50	312.00	10.57	477.49	0.00	762	20	925	0	16377	10516	0	0	5430
277+33.47	27733.47	33.47	218.60	10.92	471.32	0.00	329	13	588	0	16706	11221	0	0	5041
277+50.00	27750.00	16.53	0.00	0.00	458.68	0.00	67	3	285	0	16773	11563	0	0	4763
277+75.00	27775.00	25	0.00	0.00	461.11	0.00	0	0	426	0	16773	12074	0	0	4252
278+00.00	27800.00	25	0.20	0.00	454.44	0.00	0	0	424	0	16773	12583	0	0	3743
278+10.93	27810.93	10.93	0.00	0.00	449.97	0.00	0	0	183	0	16773	12803	0	0	3523
278+50.00	27850.00	39.07	0.00	2.46	373.70	0.00	0	2	596	0	16773	13518	0	0	2806
278+74.76	27874.76	24.76	0.68	6.88	287.07	0.00	0	4	303	0	16773	13882	0	0	2438
279+00.00	27900.00	25.24	6.26	9.04	186.12	0.00	3	7	221	0	16776	14147	0	0	2169
279+19.09	27919.09	19.09	10.84	8.37	128.82	0.00	6	6	111	0	16782	14280	0	0	2036
279+50.00	27950.00	30.91	10.59	7.84	67.04	0.00	12	9	112	0	16794	14414	0	0	1905
279+98.00	27998.00	48	10.63	7.66	24.55	0.00	19	14	81	0	16813	14512	0	0	1812
280+25.00	28025.00	27	28.26	12.96	11.71	0.00	19	10	18	0	16832	14533	0	0	1800
280+50.00	28050.00	25	36.59	11.51	4.37	0.00	30	11	7	0	16862	14542	0	0	1810
280+75.00	28075.00	25	37.93	10.35	0.51	0.00	35	10	2	0	16897	14544	0	0	1833
281+00.00	28100.00	25	35.27	9.50	0.44	0.00	34	9	0	0	16931	14544	0	0	1858
281+19.49	28119.49	19.49	29.22	9.22	1.19	0.00	23	7	1	0	16954	14545	0	0	1873
281+50.00	28150.00	30.51	28.11	9.07	7.84	0.00	32	10	5	0	16986	14551	0	0	1889
281+63.83	28163.83	13.83	27.09	9.04	8.51	0.00	14	5	4	0	17000	14556	0	0	1893
282+00.00	28200.00	36.17	28.05	9.01	1.38	0.00	37	12	7	0	17037	14564	0	0	1910
282+31.01	28231.01	31.01	27.75	8.75	1.13	0.00	32	10	1	0	17069	14566	0	0	1930

NOTES:	
1 - CUT	CUT INCLUDES SALVAGED/UNUSABLE PAVEMENT MATERIAL
2 - SALVAGED/UNUSABLE PAVEMENT MATERIAL	THIS DOES NOT SHOW UP IN CROSS SECTIONS
3 - FILL	DOES NOT INCLUDE UNUSABLE PAVEMENT EXC VOLUME
5 - EXPANDED EBS	WILL BE BACKFILLED WITH GRANULAR BACKFILL (OR CUT, OR BORROW)
7 - REDUCED EBS IN FILL	REDUCED EBS EXCAVATION THAT CAN BE USED IN FILL
8 - MASS ORDINATE	IF MARSH AND EBS TO BE BACKFILLED WITH GRANULAR: [CUT - SALVAGED PAVT - ((FILL - EXPANDED ROCK) * FILL FACTOR)]

DIVISION - RAMP A1

STATION	REAL STATION	DISTANCE	AREA (SF)				INCREMENTAL VOL (CY) (UNADJUSTED)				CUMULATIVE VOL (CY)				
			CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	EBS	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	EBS	CUT 1.00	EXPANDED FILL 1.20	EXPANDED EBS BACKFILL 1.00	REDUCED EBS IN FILL 1.00	MASS ORDINATE
							NOTE 1	NOTE 2	NOTE 3		NOTE 1		NOTE 5	NOTE 7	NOTE 8
277+33.47	27733.47	0.00	218.60	10.92	7.46	0.00	0	0	0	0	0	0	0	0	0
277+50.00	27750.00	16.53	184.47	11.27	5.66	0.00	123	7	4	0	123	5	0	0	111
278+00.00	27800.00	50	97.53	12.60	0.00	0.00	261	22	5	0	384	11	0	0	344
278+25.00	27825.00	25	49.74	16.38	2.64	0.00	68	13	1	0	452	12	0	0	398
278+50.00	27850.00	25	48.50	20.32	5.38	0.00	45	17	4	0	497	17	0	0	421
278+75.00	27875.00	25	48.59	28.09	2.25	0.00	45	22	4	0	542	22	0	0	439

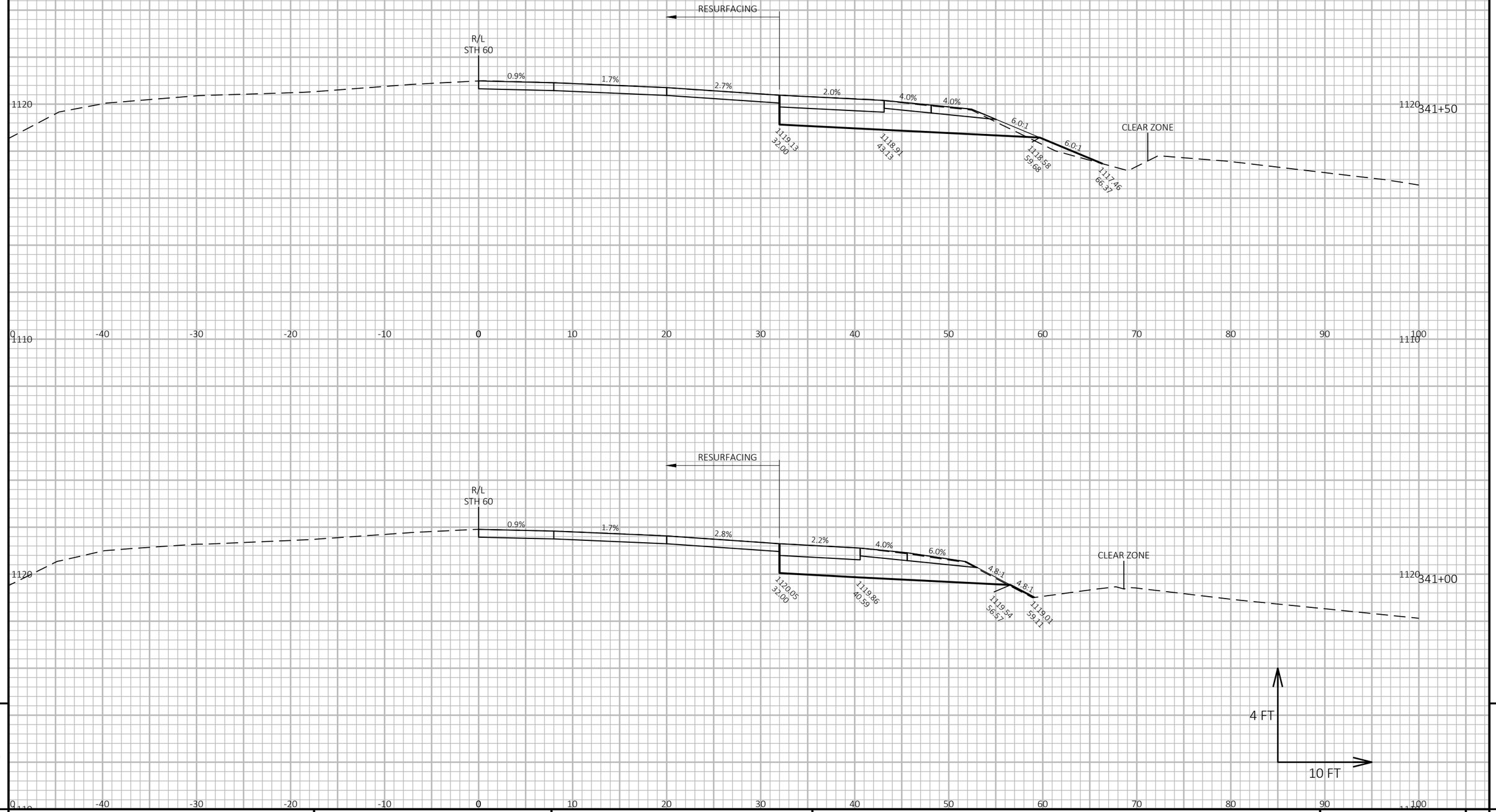
DIVISION - RAMP B

STATION	REAL STATION	DISTANCE	AREA (SF)				INCREMENTAL VOL (CY) (UNADJUSTED)				CUMULATIVE VOL (CY)				
			CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	EBS	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	EBS	CUT 1.00	EXPANDED FILL 1.20	EXPANDED EBS BACKFILL 1.00	REDUCED EBS IN FILL 1.00	MASS ORDINATE
							NOTE 1	NOTE 2	NOTE 3		NOTE 1		NOTE 5	NOTE 7	NOTE 8
278+75.00	27875.00	0.00	132.14	50.35	0.00	0.00	0	0	0	0	0	0	0	0	0
279+00.00	27900.00	25	82.48	24.08	0.10	0.00	99	34	0	0	99	0	0	0	65
279+25.00	27925.00	25	63.01	22.04	4.04	0.00	67	21	2	0	166	2	0	0	109
279+36.80	27936.80	11.8	60.50	19.96	1.83	0.00	27	9	1	0	193	4	0	0	125
279+50.00	27950.00	13.2	355.71	18.45	22.68	0.00	102	9	6	0	295	11	0	0	211
280+00.00	28000.00	50	137.08	14.29	43.83	0.00	456	30	62	0	751	85	0	0	563
280+50.00	28050.00	50	104.42	10.99	17.11	0.00	224	23	56	0	975	152	0	0	697
280+85.00	28085.00	35	84.82	10.70	3.36	0.00	123	14	13	0	1098	168	0	0	790
281+00.00	28100.00	15	70.47	10.63	25.50	0.00	43	6	8	0	1141	178	0	0	817
281+50.00	28150.00	50	77.62	10.36	0.00	0.00	137	19	24	0	1278	206	0	0	907
282+00.00	28200.00	50	75.37	10.38	0.00	0.00	142	19	0	0	1420	206	0	0	1030
282+25.00	28225.00	25	104.62	10.66	0.00	0.00	83	10	0	0	1503	206	0	0	1103
282+60.00	28260.00	35	88.53	0.00	0.89	0.00	125	7	1	0	1628	208	0	0	1219
283+00.00	28300.00	40	55.99	0.00	0.00	0.00	107	0	1	0	1735	209	0	0	1325
283+50.00	28350.00	50	40.17	0.00	0.00	0.00	89	0	0	0	1824	209	0	0	1414
284+00.00	28400.00	50	0.00	0.00	0.62	0.00	37	0	1	0	1861	210	0	0	1450

DIVISION - RAMP D

STATION	REAL STATION	DISTANCE	AREA (SF)				INCREMENTAL VOL (CY) (UNADJUSTED)				CUMULATIVE VOL (CY)				
			CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	EBS	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	EBS	CUT 1.00	EXPANDED FILL 1.20	EXPANDED EBS BACKFILL 1.00	REDUCED EBS IN FILL 1.00	MASS ORDINATE
							NOTE 1	NOTE 2	NOTE 3		NOTE 1		NOTE 5	NOTE 7	NOTE 8
291+00.00	29100.00	0.00	10.25	0.00	0.02	0.00	0	0	0	0	0	0	0	0	0
291+50.00	29150.00	50	12.15	0.00	0.00	0.00	21	0	0	0	21	0	0	0	21
292+00.00	29200.00	50	14.03	0.00	0.00	0.00	24	0	0	0	45	0	0	0	45
292+23.00	29223.00	23	14.53	0.00	3.66	0.00	12	0	2	0	57	2	0	0	55
292+48.78	29248.78	25.78	15.97	0.00	0.00	0.00	15	0	2	0	72	5	0	0	67
292+74.47	29274.47	25.69	13.36	0.00	0.00	0.00	14	0	0	0	86	5	0	0	81
293+00.00	29300.00	25.53	10.15	0.00	0.00	0.00	11	0	0	0	97	5	0	0	92
293+25.00	29325.00	25	7.32	0.00	0.00	0.00	8	0	0	0	105	5	0	0	100
293+50.00	29350.00	25	5.65	0.00	0.03	0.00	6	0	0	0	111	5	0	0	106
293+75.00	29375.00	25	7.51	0.00	0.00	0.00	6	0	0	0	117	5	0	0	112
293+90.22	29390.22	15.22	0.00	0.00	0.00	0.00	2	0	0	0	119	5	0	0	114

NOTES:	
1 - CUT	CUT INCLUDES SALVAGED/UNUSABLE PAVEMENT MATERIAL
2 - SALVAGED/UNUSABLE PAVEMENT MATERIAL	THIS DOES NOT SHOW UP IN CROSS SECTIONS
3 - FILL	DOES NOT INCLUDE UNUSABLE PAVEMENT EXC VOLUME
5 - EXPANDED EBS	WILL BE BACKFILLED WITH GRANULAR BACKFILL (OR CUT, OR BORROW)
7 - REDUCED EBS IN FILL	REDUCED EBS EXCAVATION THAT CAN BE USED IN FILL
8 - MASS ORDINATE	IF MARSH AND EBS TO BE BACKFILLED WITH GRANULAR: [CUT - SALVAGED PAVT - ((FILL - EXPANDED ROCK) * FILL FACTOR)]



9

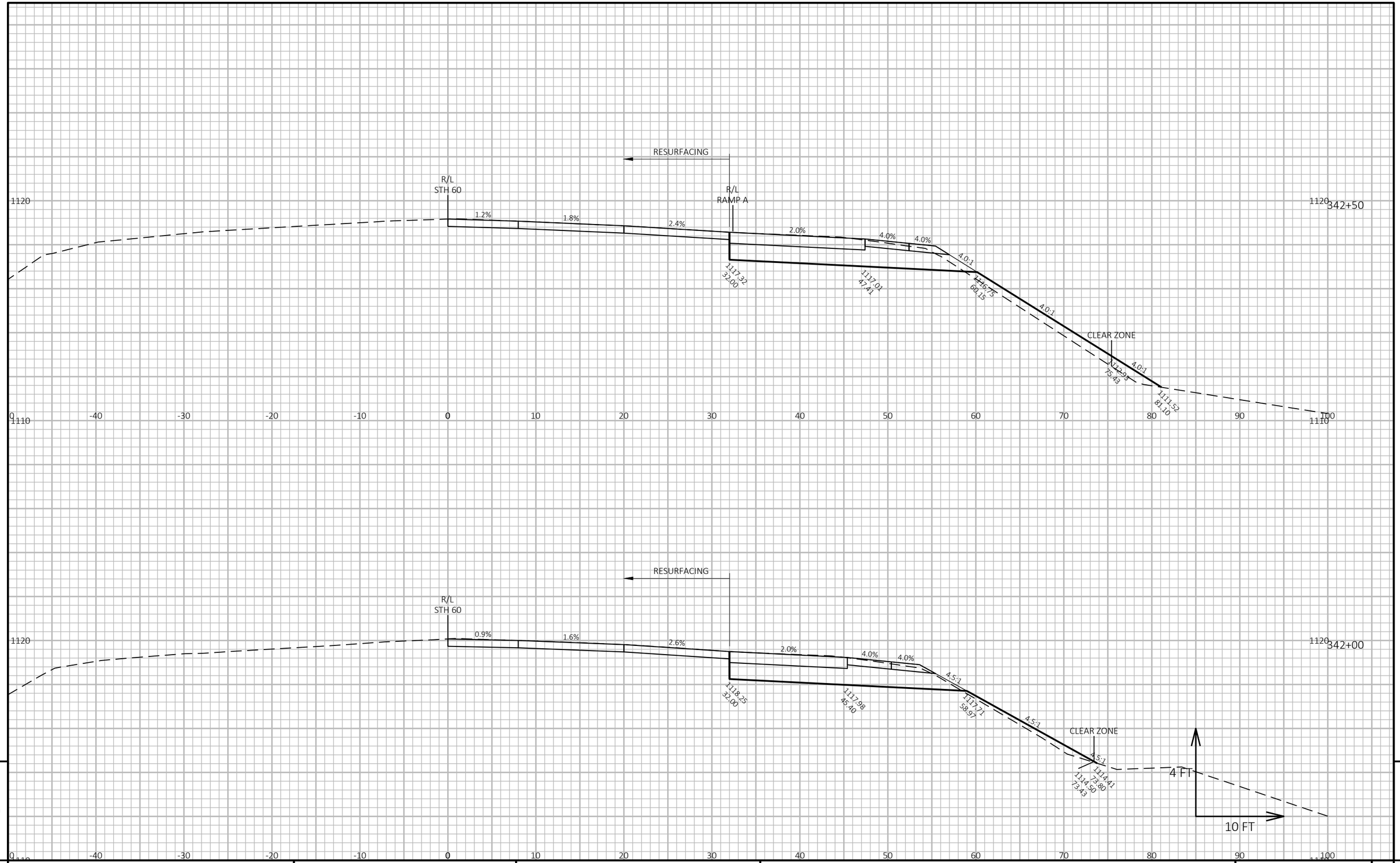
9

PROJECT NO: 2310-09-71	HWY: STH 60	COUNTY: WASHINGTON	CROSS SECTIONS: STH 60 EB	SHEET 523	E

FILE NAME : K:\195704_STH 60 AND IH 41 INTERSECTION\3.0 DELIVERABLES\3.02 ROADWAY\AUTOCAD\SHEETS\090201-XS.DWG
LAYOUT NAME - 01

PLOT DATE : 10/24/2025 5:06 PM PLOT BY : OLSEN, CASSIE PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:4 FT VERT.

WISDOT/CADDS SHEET 49

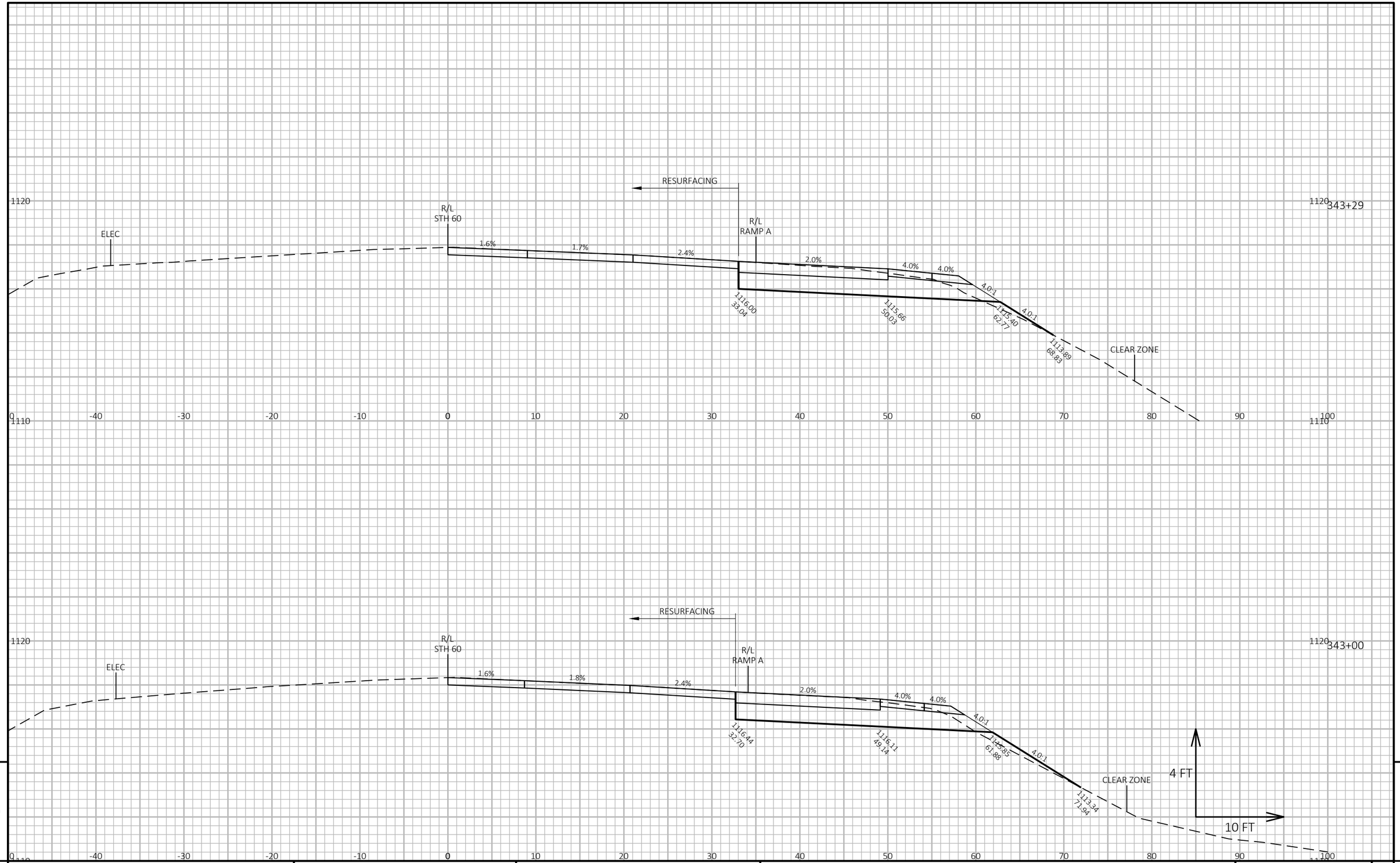


9 9

PROJECT NO: 2310-09-71	HWY: STH 60	COUNTY: WASHINGTON	CROSS SECTIONS: STH 60 EB	SHEET 524	E

FILE NAME : K:\195704_STH 60 AND IH 41 INTERSECTION\3.0 DELIVERABLES\3.02 ROADWAY\AUTOCAD\SHEETS\090201-XS.DWG
LAYOUT NAME - 02

PLOT DATE : 10/24/2025 5:06 PM PLOT BY : OLSEN, CASSIE PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:4 FT VERT.



9

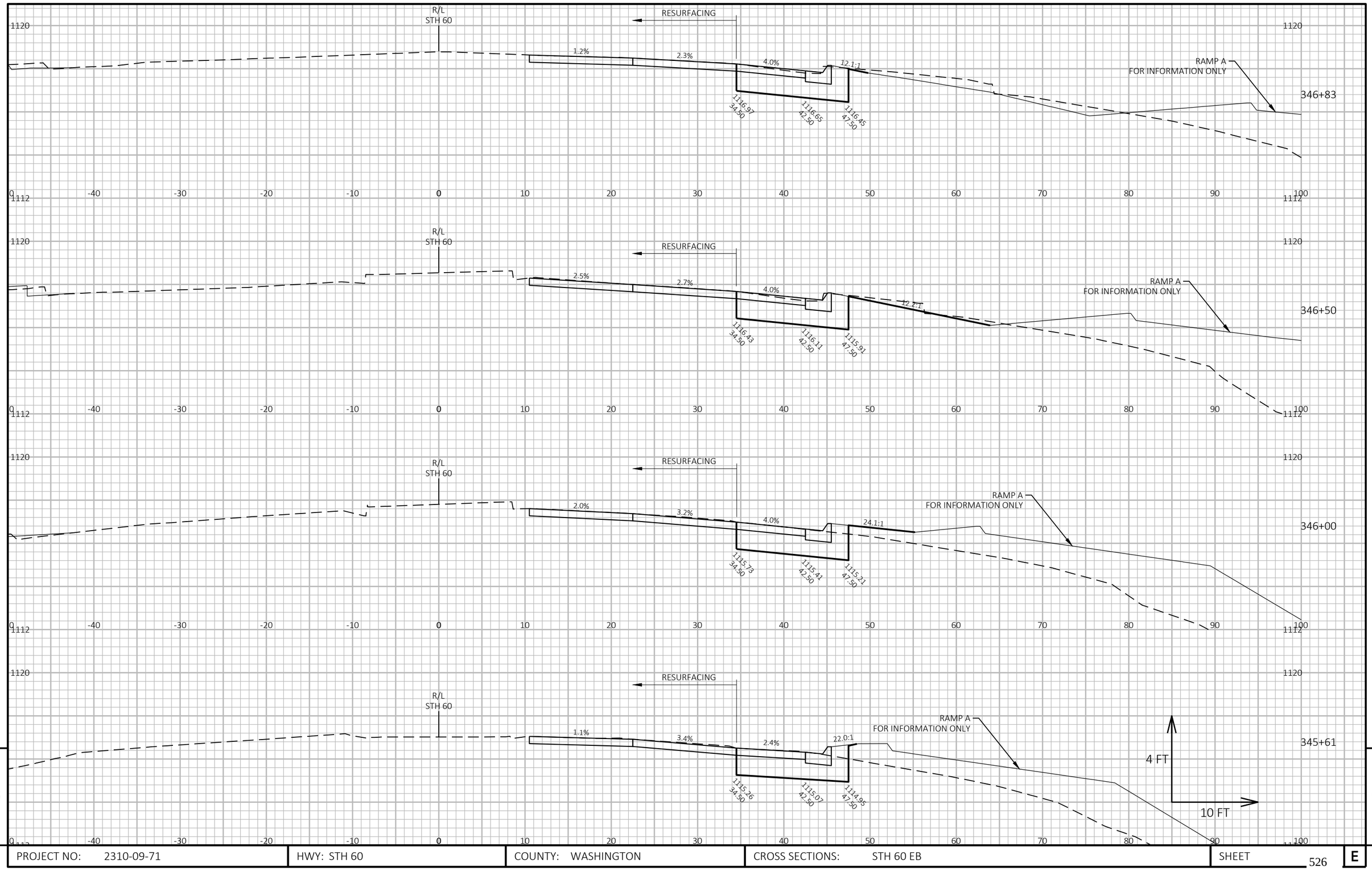
9

PROJECT NO: 2310-09-71	HWY: STH 60	COUNTY: WASHINGTON	CROSS SECTIONS: STH 60 EB	SHEET 525	E

FILE NAME : K:\195704_STH 60 AND IH 41 INTERSECTION\3.0 DELIVERABLES\3.02 ROADWAY\AUTOCAD\SHEETS\090201-XS.DWG
LAYOUT NAME - 03

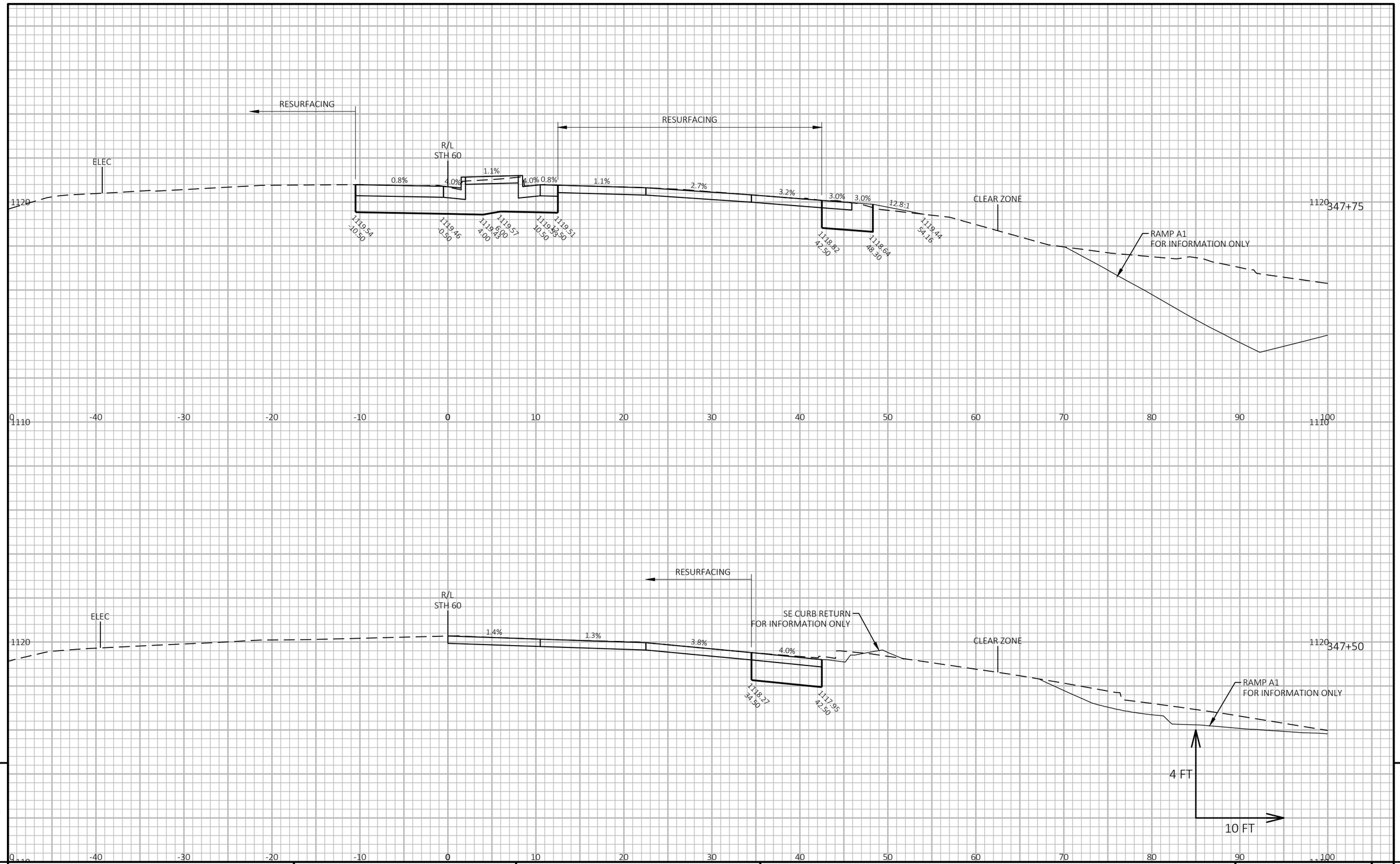
PLOT DATE : 10/24/2025 5:06 PM PLOT BY : OLSEN, CASSIE PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:4 FT VERT.

WISDOT/CADDS SHEET 49



PROJECT NO: 2310-09-71	HWY: STH 60	COUNTY: WASHINGTON	CROSS SECTIONS: STH 60 EB	SHEET 526	E

FILE NAME : K:\195704_STH 60 AND IH 41 INTERSECTION\3.0 DELIVERABLES\3.02 ROADWAY\AUTOCAD\SHEETS\090201-XS.DWG
LAYOUT NAME - 03A
PLOT DATE : 10/28/2025 4:59 PM
PLOT BY : OLSEN, CASSIE
PLOT NAME :
PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:4 FT VERT.
WISDOT/CADDS SHEET 49

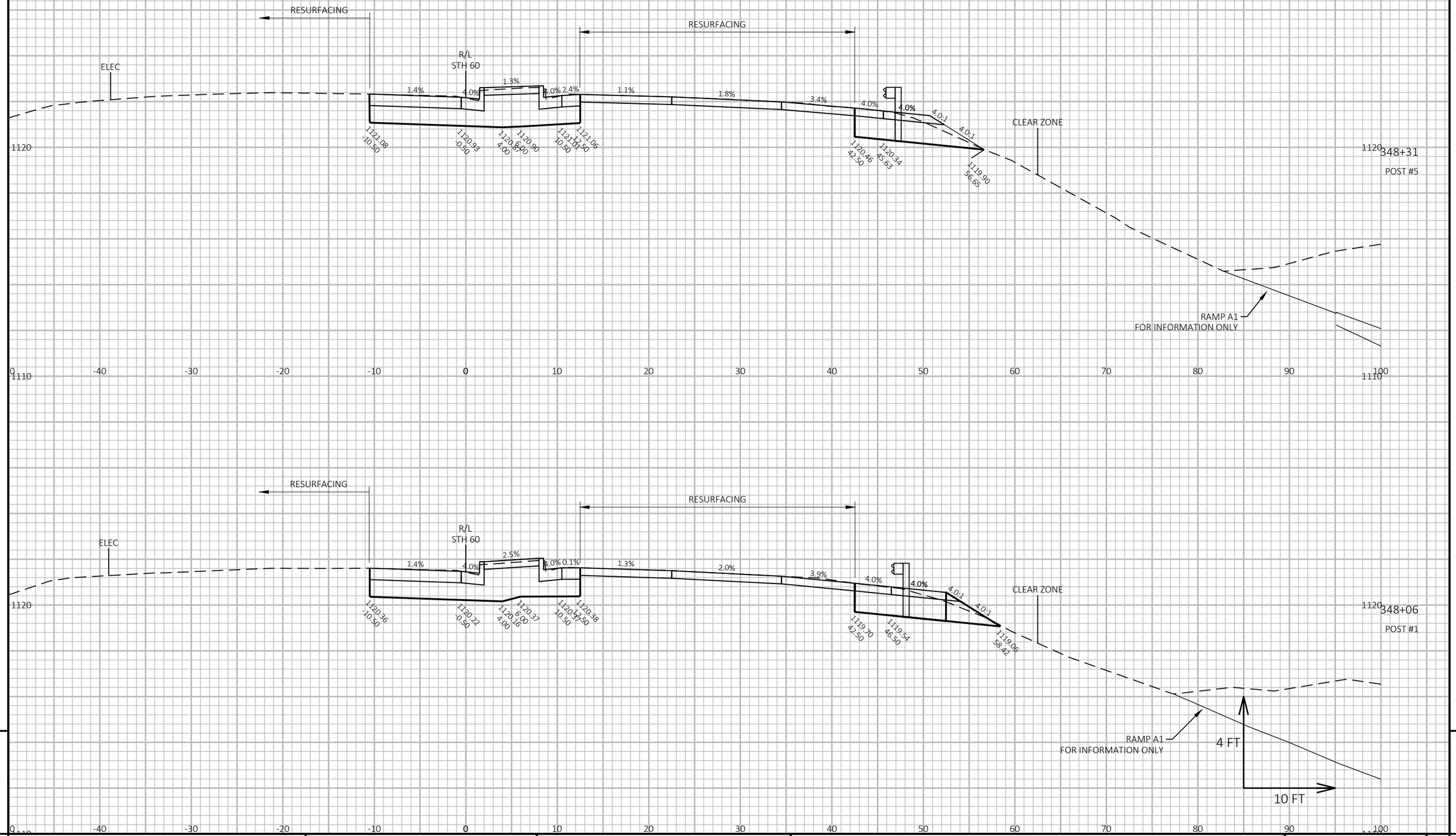


PROJECT NO: 2310-09-71	HWY: STH 60	COUNTY: WASHINGTON	CROSS SECTIONS: STH 60 EB	SHEET 527	E

FILE NAME : K:\195704_STH 60 AND IH 41 INTERSECTION\3.0 DELIVERABLES\3.02 ROADWAY\AUTOCAD\SHEETS\090201-XS.DWG
LAYOUT NAME - 04

PLOT DATE : 10/24/2025 5:06 PM PLOT BY : OLSEN, CASSIE PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:4 FT VERT.

WISDOT/CADDS SHEET 49



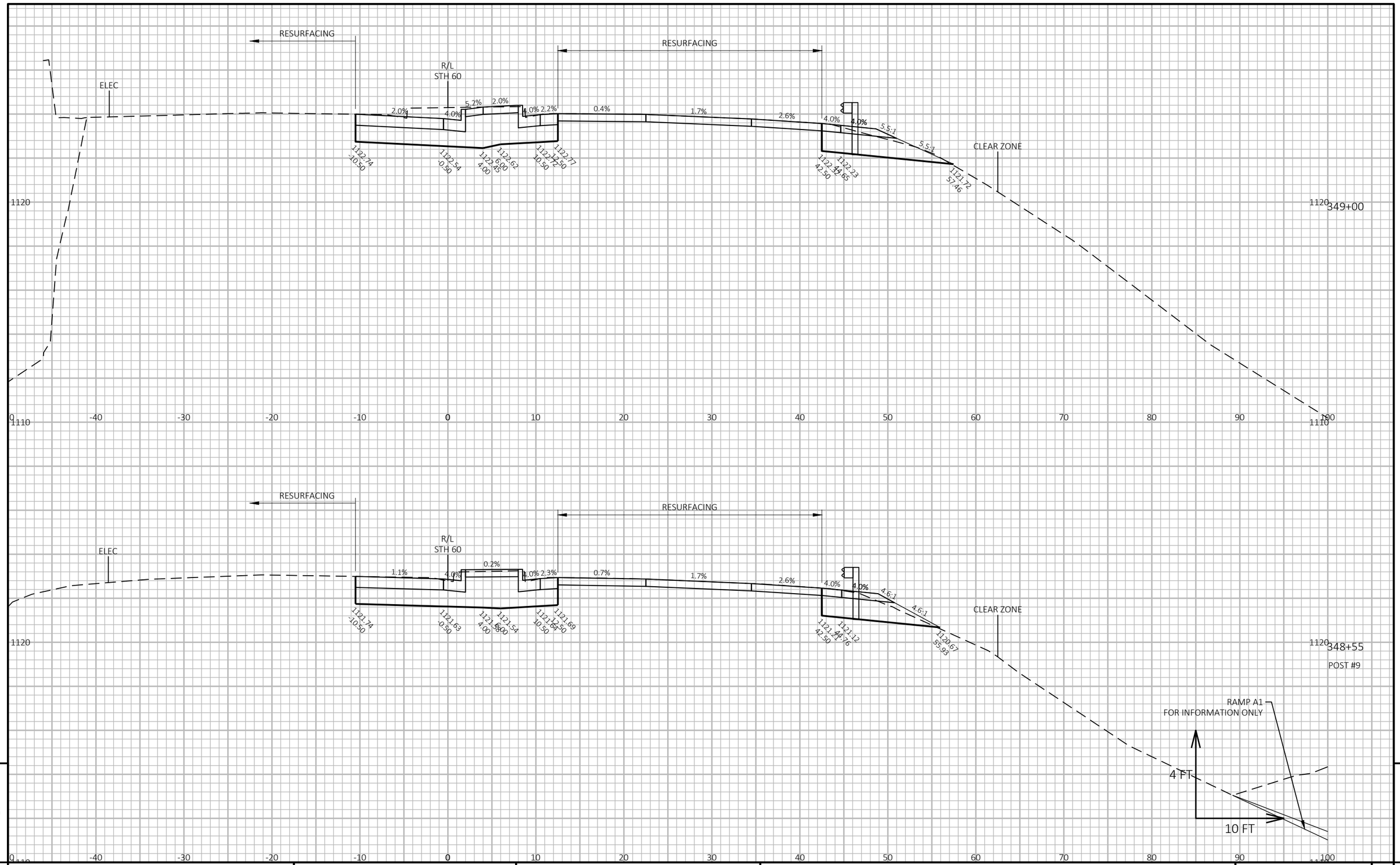
9 9

PROJECT NO: 2310-09-71	HWY: STH 60	COUNTY: WASHINGTON	CROSS SECTIONS: STH 60 EB	SHEET 528	E

FILE NAME : K:\195704_STH 60 AND IH 41 INTERSECTION\3.0 DELIVERABLES\3.02 ROADWAY\AUTOCAD\SHEETS\090201-XS.DWG
LAYOUT NAME - 05

PLOT DATE : 10/24/2025 5:06 PM PLOT BY : OLSEN, CASSIE PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:4 FT VERT.

WISDOT/CADDS SHEET 49



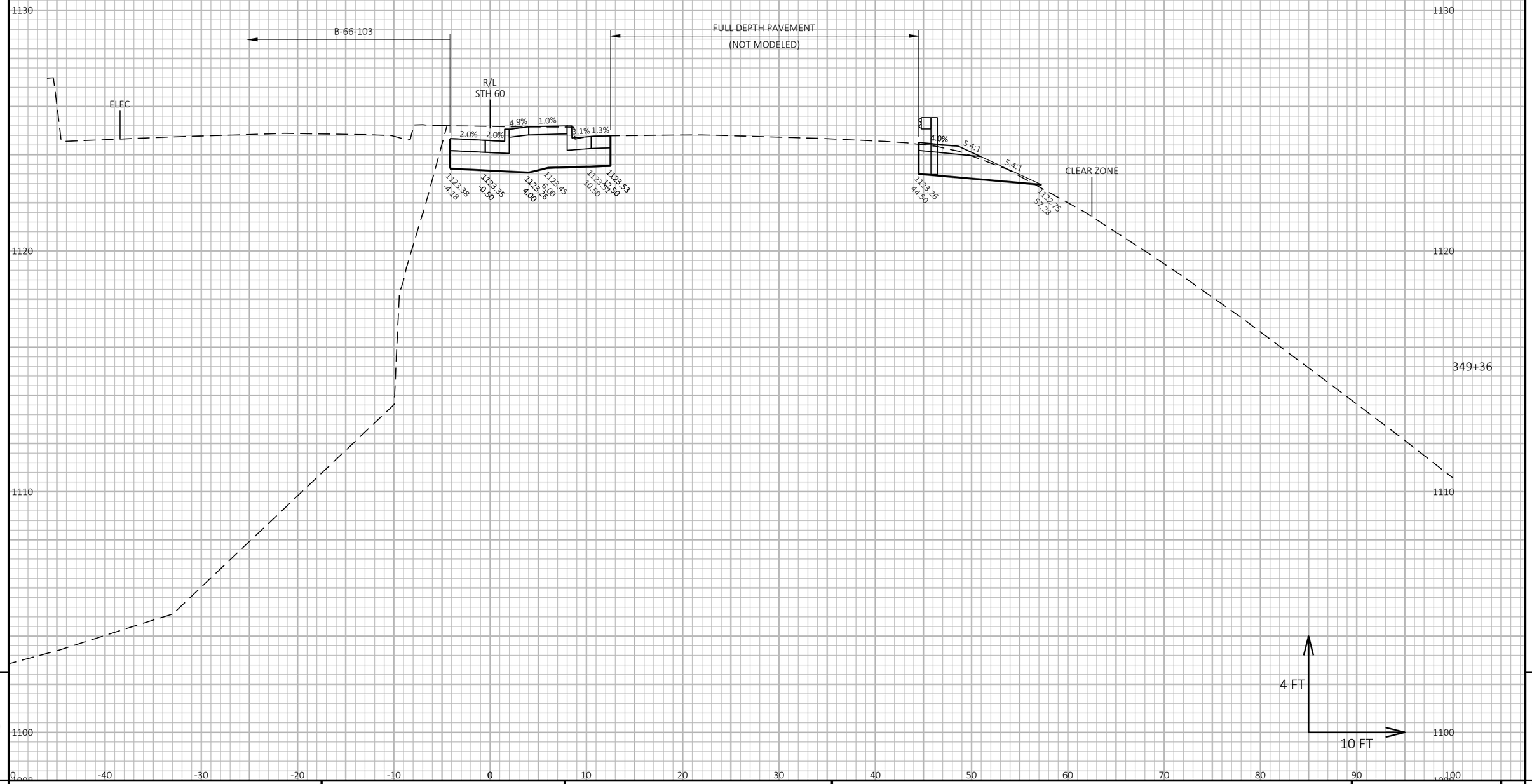
9 9

PROJECT NO: 2310-09-71	HWY: STH 60	COUNTY: WASHINGTON	CROSS SECTIONS: STH 60 EB	SHEET 529	E

FILE NAME : K:\195704_STH 60 AND IH 41 INTERSECTION\3.0 DELIVERABLES\3.02 ROADWAY\AUTOCAD\SHEETS\090201-XS.DWG
LAYOUT NAME - 06

PLOT DATE : 10/24/2025 5:06 PM PLOT BY : OLSEN, CASSIE PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:4 FT VERT.

WISDOT/CADDS SHEET 49



9

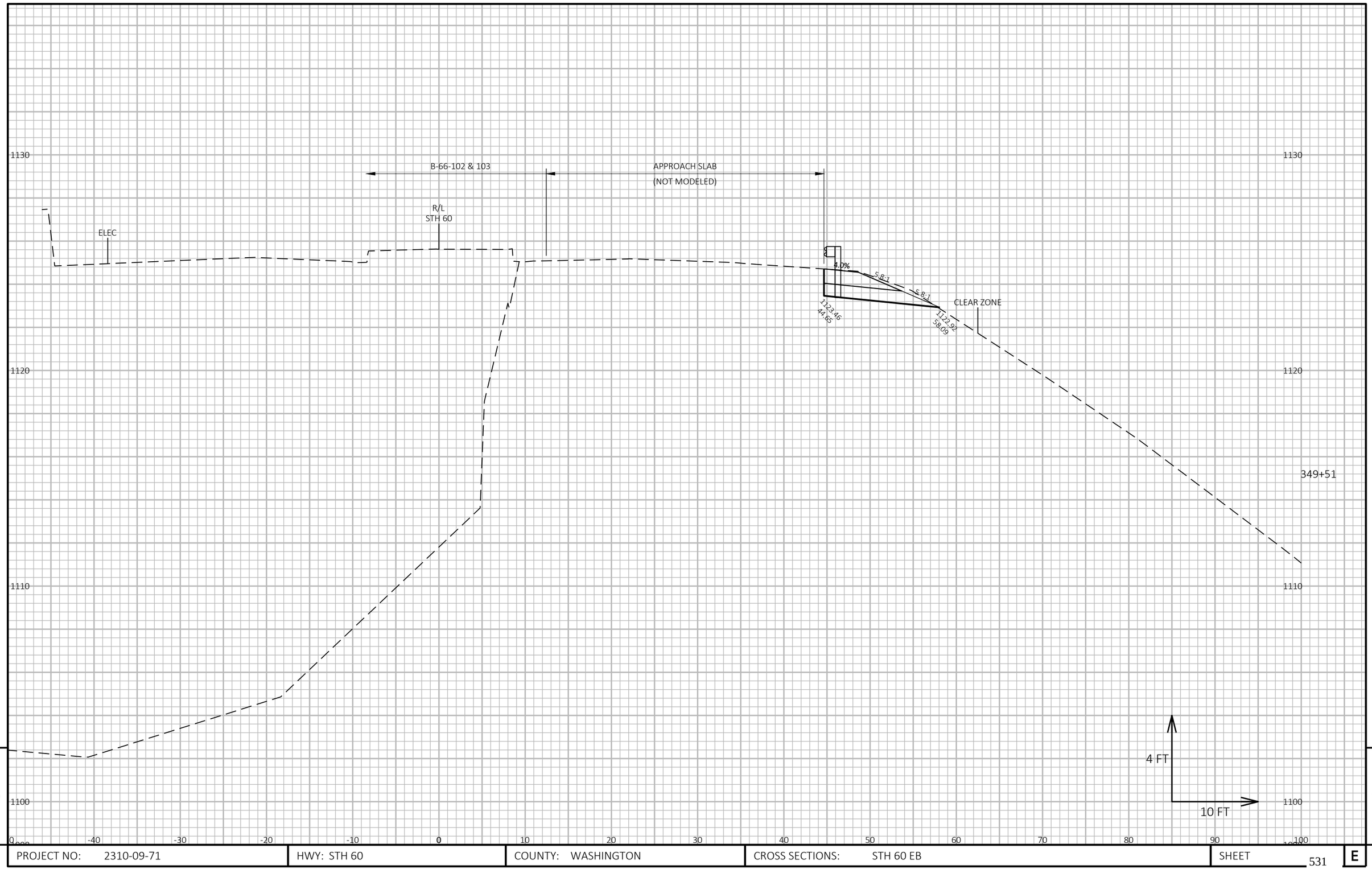
9

PROJECT NO: 2310-09-71	HWY: STH 60	COUNTY: WASHINGTON	CROSS SECTIONS: STH 60 EB	SHEET 530	E

FILE NAME : K:\195704_STH 60 AND IH 41 INTERSECTION\3.0 DELIVERABLES\3.02 ROADWAY\AUTOCAD\SHEETS\090201-XS.DWG
LAYOUT NAME - 07

PLOT DATE : 10/24/2025 5:06 PM PLOT BY : OLSEN, CASSIE PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:4 FT VERT.

WISDOT/CADDS SHEET 49



9

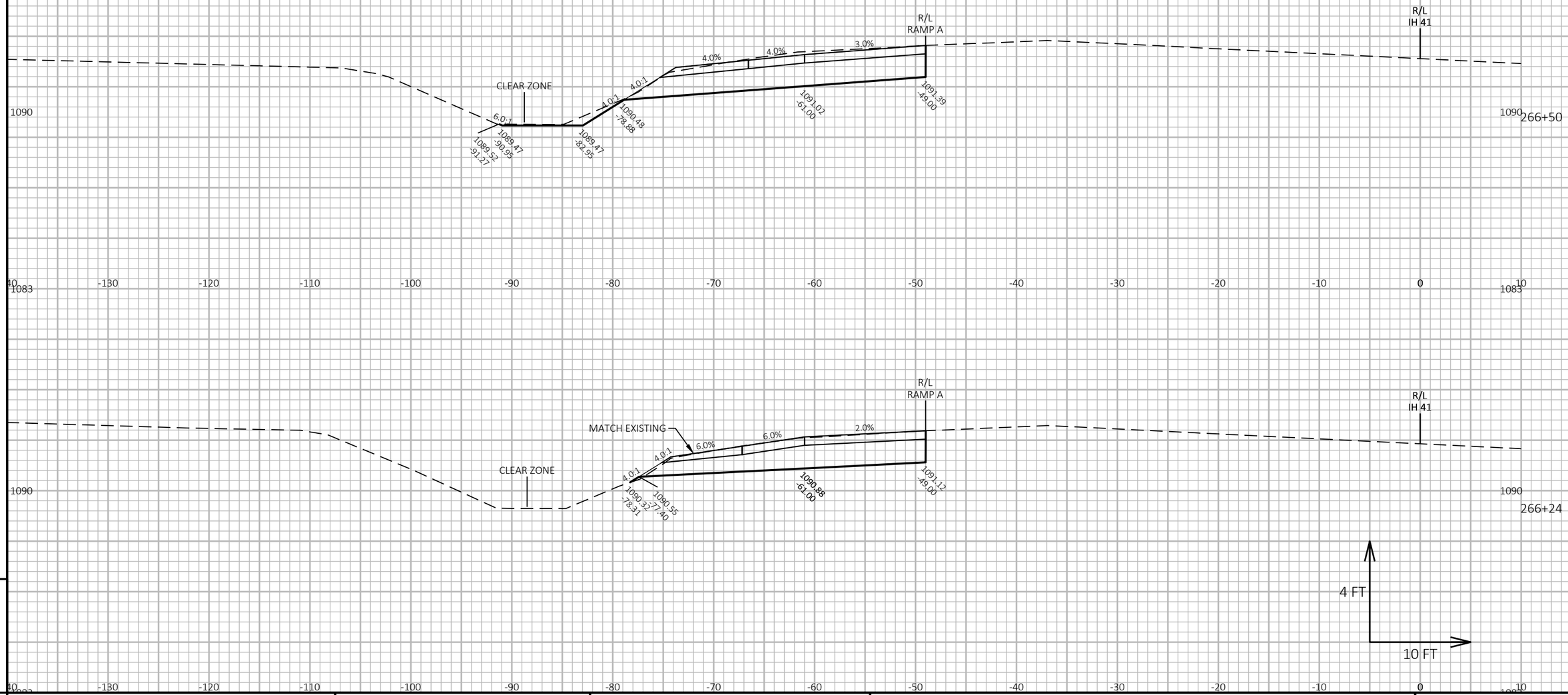
9

PROJECT NO: 2310-09-71	HWY: STH 60	COUNTY: WASHINGTON	CROSS SECTIONS: STH 60 EB	SHEET 531	E

FILE NAME : K:\195704_STH 60 AND IH 41 INTERSECTION\3.0 DELIVERABLES\3.02 ROADWAY\AUTOCAD\SHEETS\090201-XS.DWG
LAYOUT NAME - 08

PLOT DATE : 10/24/2025 5:06 PM PLOT BY : OLSEN, CASSIE PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:4 FT VERT.

WISDOT/CADDS SHEET 49

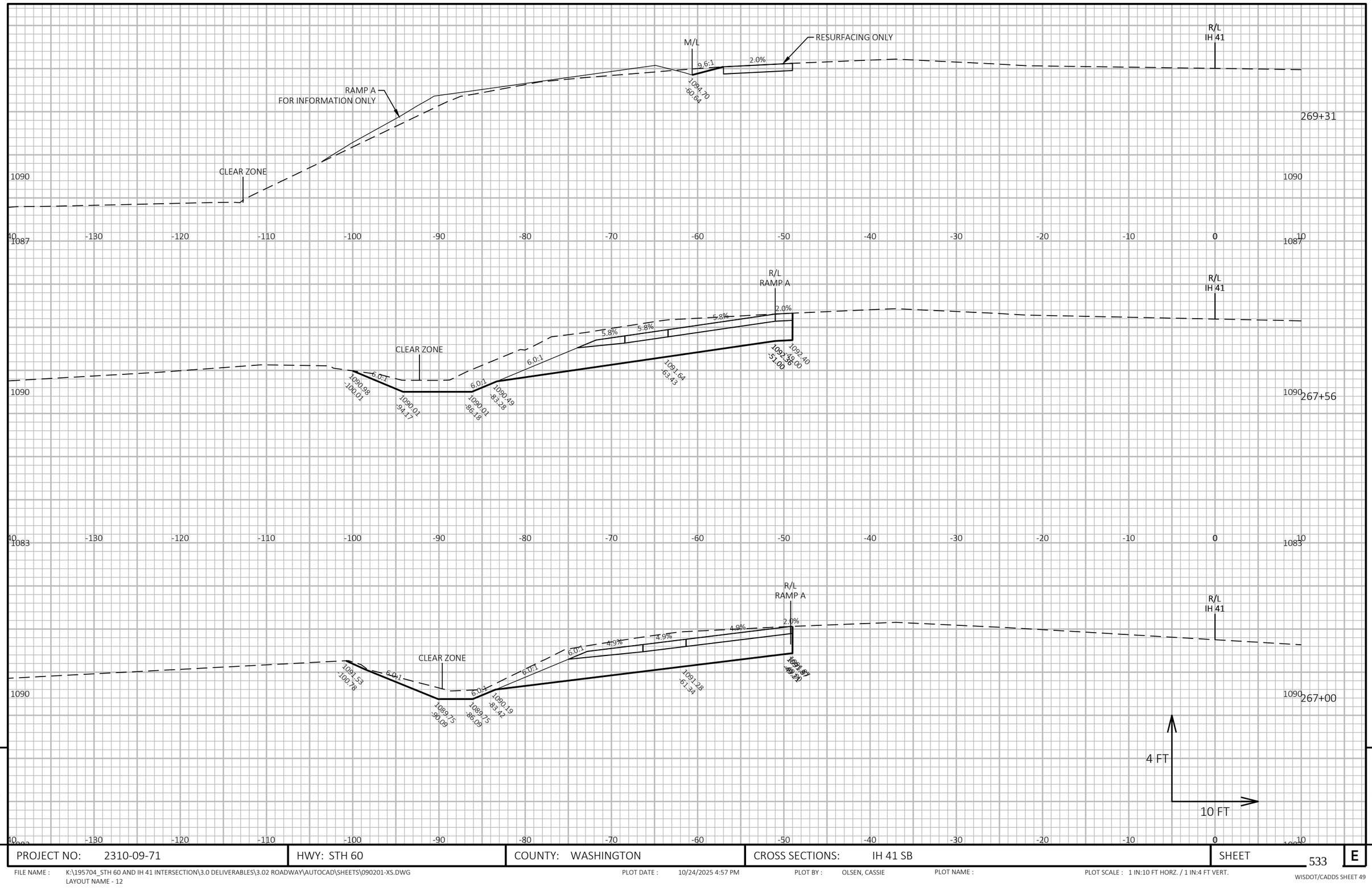


PROJECT NO: 2310-09-71	HWY: STH 60	COUNTY: WASHINGTON	CROSS SECTIONS: IH 41 SB	SHEET 532	E

FILE NAME : K:\195704_STH 60 AND IH 41 INTERSECTION\3.0 DELIVERABLES\3.02 ROADWAY\AUTOCAD\SHEETS\090201-XS.DWG
LAYOUT NAME - 11

PLOT DATE : 10/24/2025 4:57 PM PLOT BY : OLSEN, CASSIE PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:4 FT VERT.

WISDOT/CADDS SHEET 49



9

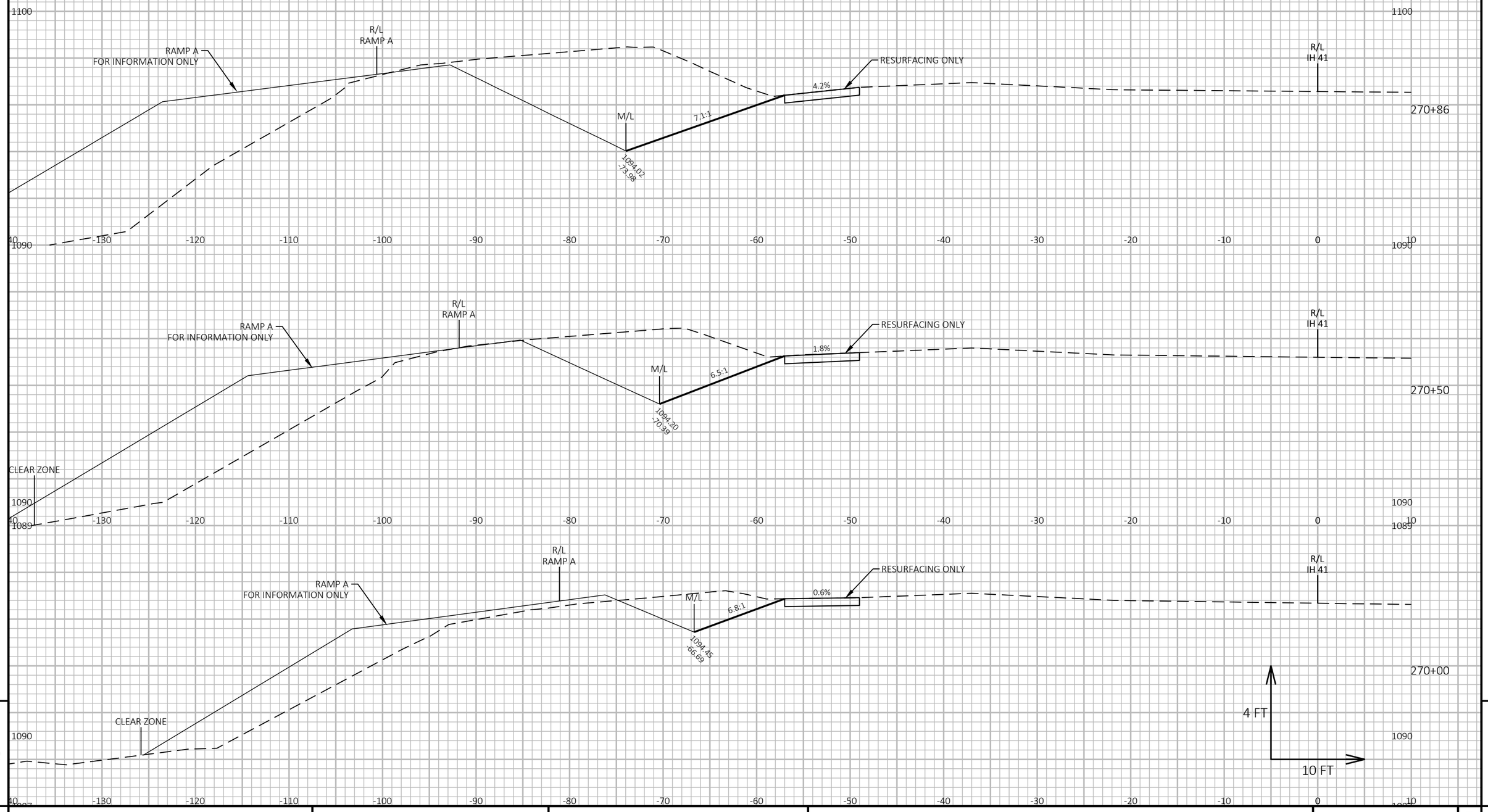
9

PROJECT NO: 2310-09-71	HWY: STH 60	COUNTY: WASHINGTON	CROSS SECTIONS: IH 41 SB	SHEET 533	E

FILE NAME : K:\195704_STH 60 AND IH 41 INTERSECTION\3.0 DELIVERABLES\3.02 ROADWAY\AUTOCAD\SHEETS\090201-XS.DWG
LAYOUT NAME - 12

PLOT DATE : 10/24/2025 4:57 PM PLOT BY : OLSEN, CASSIE PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:4 FT VERT.

WISDOT/CADDS SHEET 49

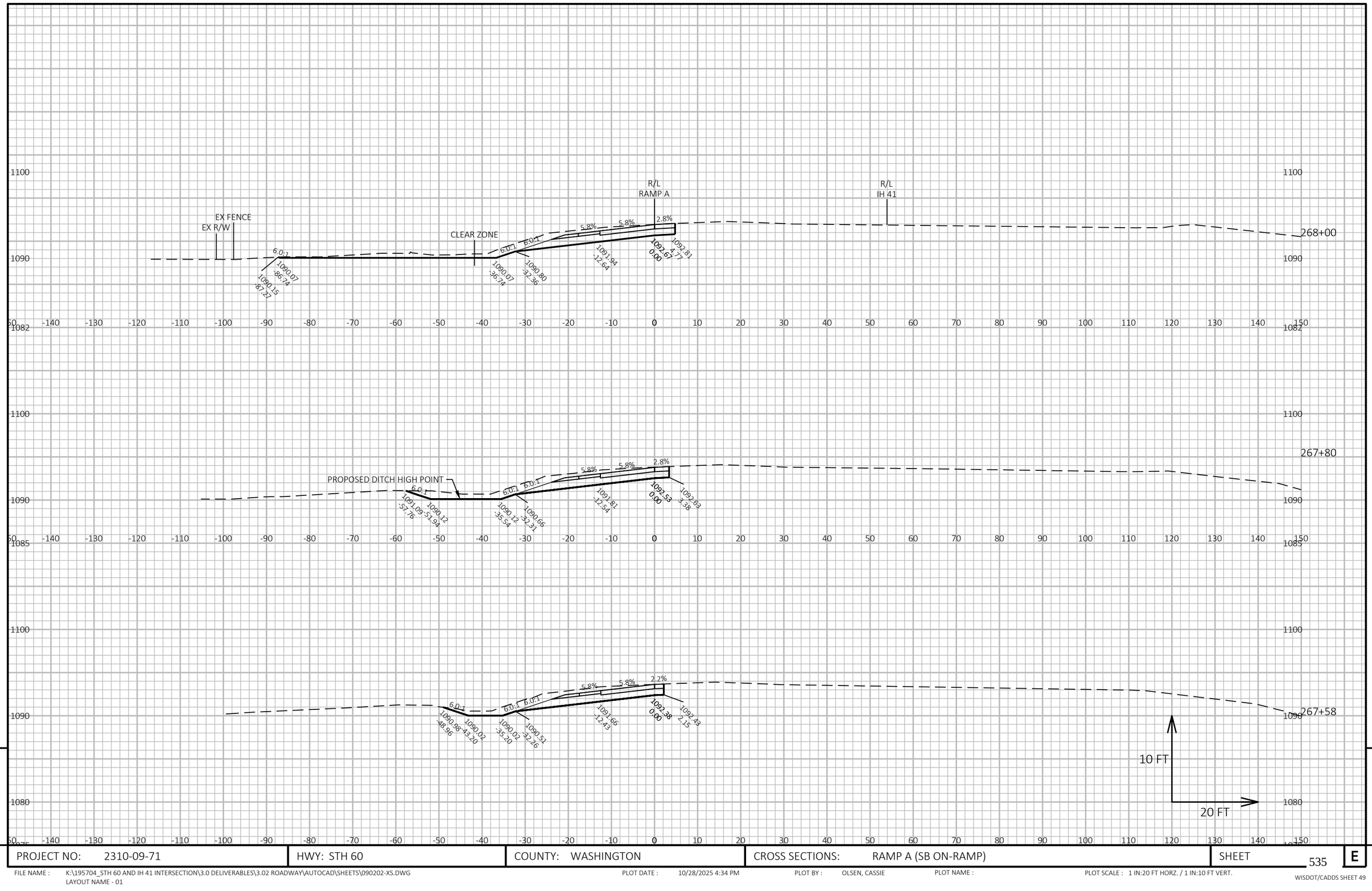


PROJECT NO: 2310-09-71	HWY: STH 60	COUNTY: WASHINGTON	CROSS SECTIONS: IH 41 SB	SHEET 534	E

FILE NAME : K:\195704_STH 60 AND IH 41 INTERSECTION\3.0 DELIVERABLES\3.02 ROADWAY\AUTOCAD\SHEETS\090201-XS.DWG
LAYOUT NAME - 13

PLOT DATE : 10/24/2025 4:57 PM PLOT BY : OLSEN, CASSIE PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:4 FT VERT.

WISDOT/CADDS SHEET 49



9

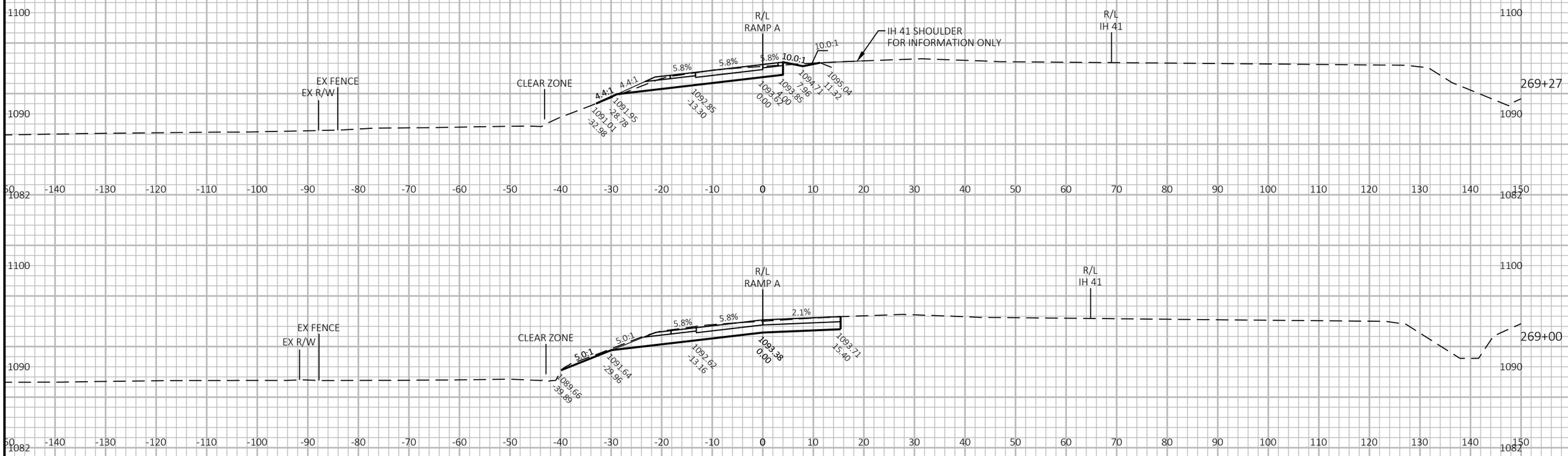
9

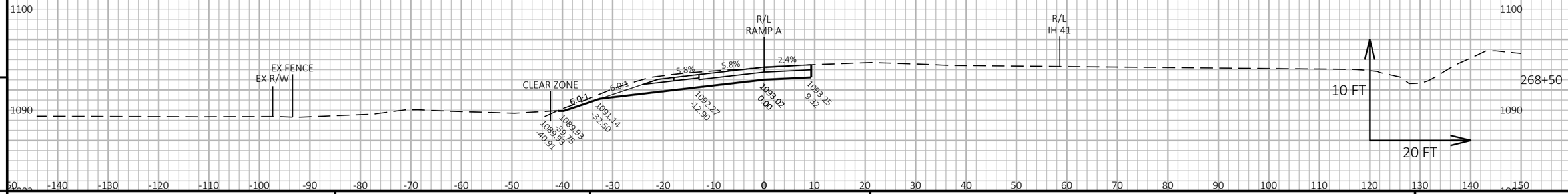
PROJECT NO: 2310-09-71	HWY: STH 60	COUNTY: WASHINGTON	CROSS SECTIONS: RAMP A (SB ON-RAMP)	SHEET 535	E

FILE NAME : K:\195704_STH 60 AND IH 41 INTERSECTION\3.0 DELIVERABLES\3.02 ROADWAY\AUTOCAD\SHEETS\090202-XS.DWG
LAYOUT NAME - 01

PLOT DATE : 10/28/2025 4:34 PM PLOT BY : OLSEN, CASSIE PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49





9

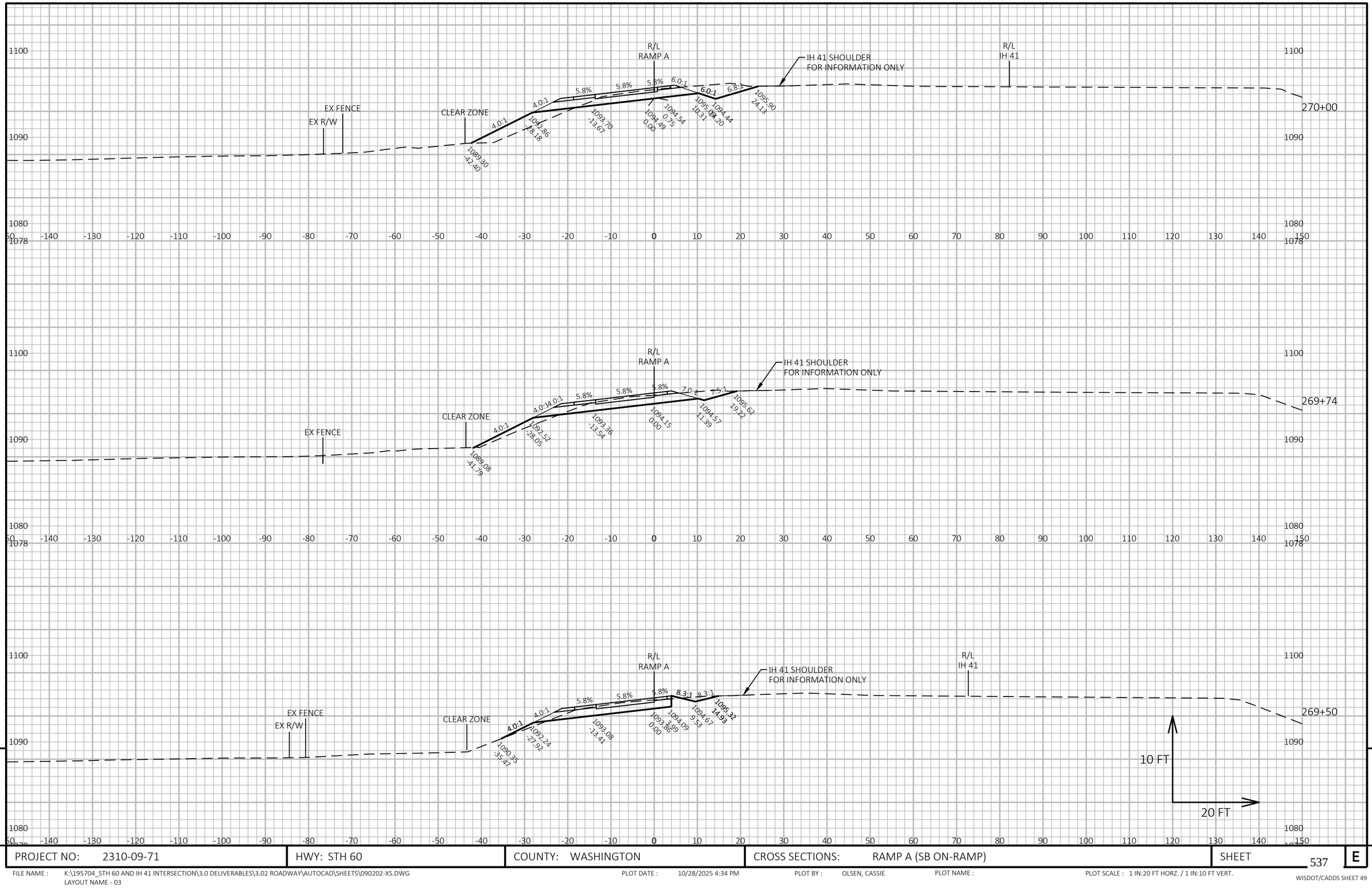
9

PROJECT NO: 2310-09-71	HWY: STH 60	COUNTY: WASHINGTON	CROSS SECTIONS: RAMP A (SB ON-RAMP)	SHEET 536	E

FILE NAME : K:\195704_STH 60 AND IH 41 INTERSECTION\3.0 DELIVERABLES\3.02 ROADWAY\AUTOCAD\SHEETS\090202-XS.DWG
LAYOUT NAME - 02

PLOT DATE : 10/28/2025 4:34 PM PLOT BY : OLSEN, CASSIE PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

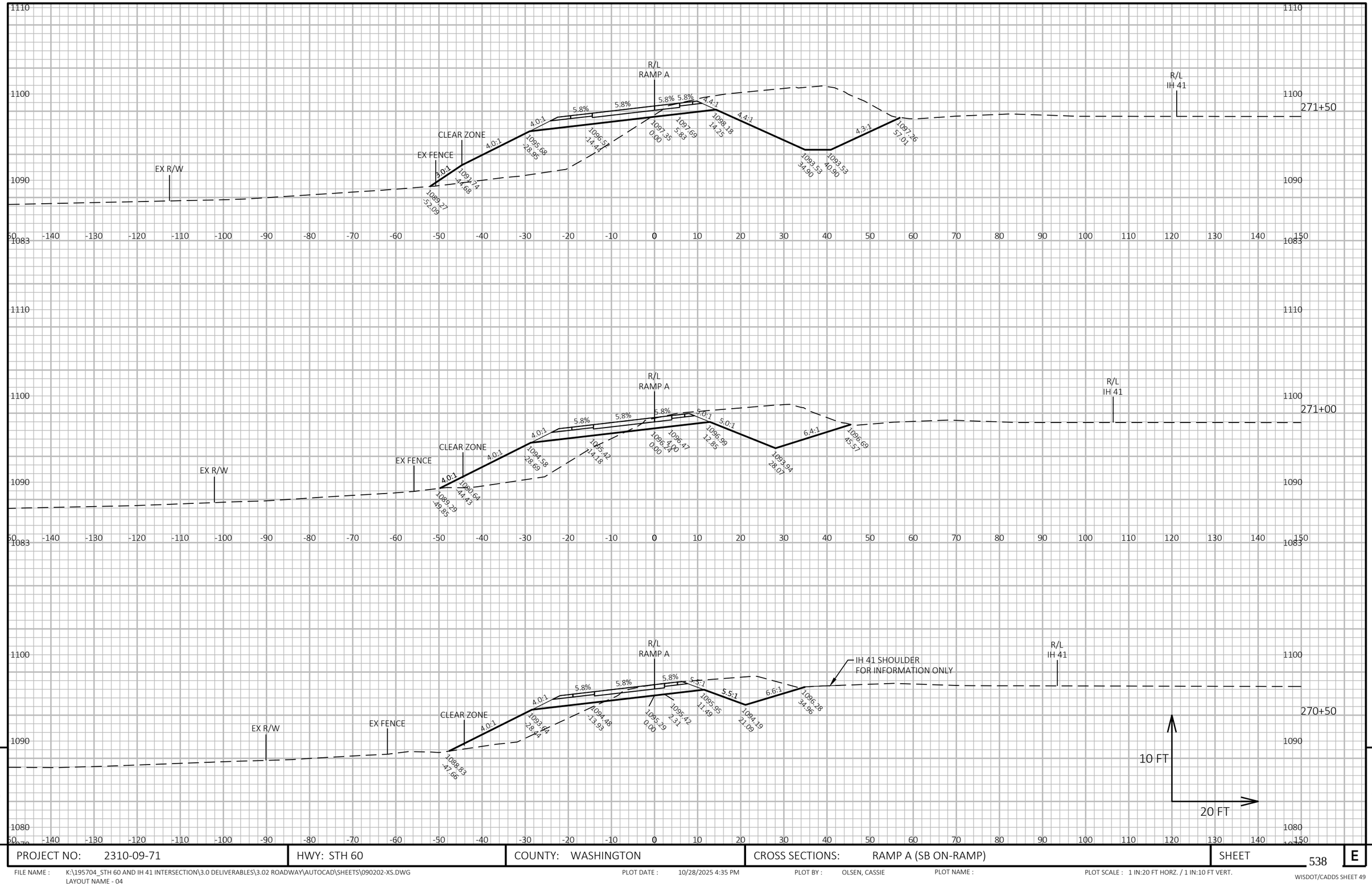


PROJECT NO: 2310-09-71	HWY: STH 60	COUNTY: WASHINGTON	CROSS SECTIONS: RAMP A (SB ON-RAMP)	SHEET 537 E

FILE NAME : K:\195704_STH 60 AND IH 41 INTERSECTION\3.0 DELIVERABLES\3.02 ROADWAY\AUTOCAD\SHEETS\090202-XS.DWG
LAYOUT NAME - 03

PLOT DATE : 10/28/2025 4:34 PM PLOT BY : OLSEN, CASSIE PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

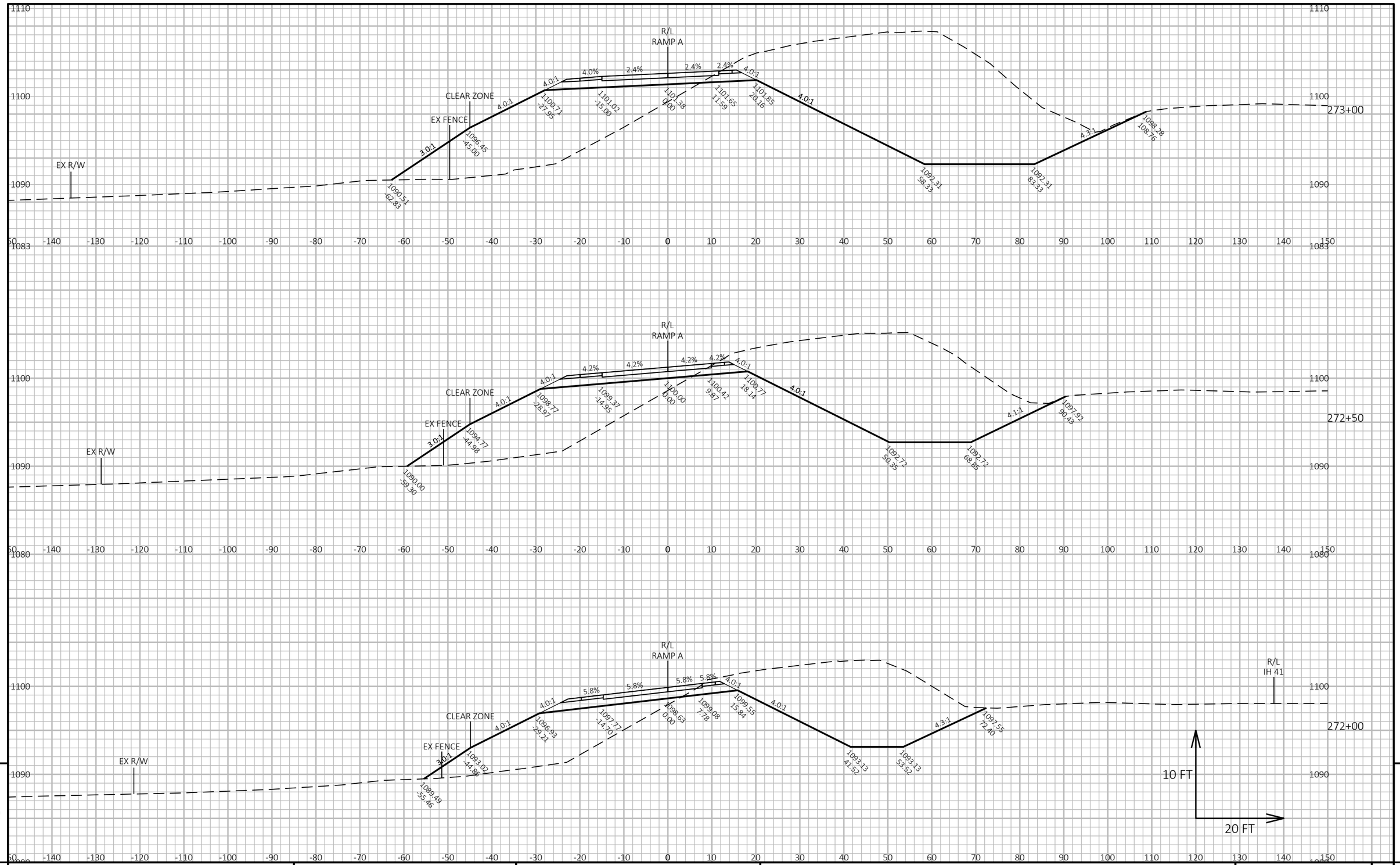


PROJECT NO: 2310-09-71	HWY: STH 60	COUNTY: WASHINGTON	CROSS SECTIONS: RAMP A (SB ON-RAMP)	SHEET 538	E

FILE NAME : K:\195704_STH 60 AND IH 41 INTERSECTION\3.0 DELIVERABLES\3.02 ROADWAY\AUTOCAD\SHEETS\090202-XS.DWG
LAYOUT NAME - 04

PLOT DATE : 10/28/2025 4:35 PM PLOT BY : OLSEN, CASSIE PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

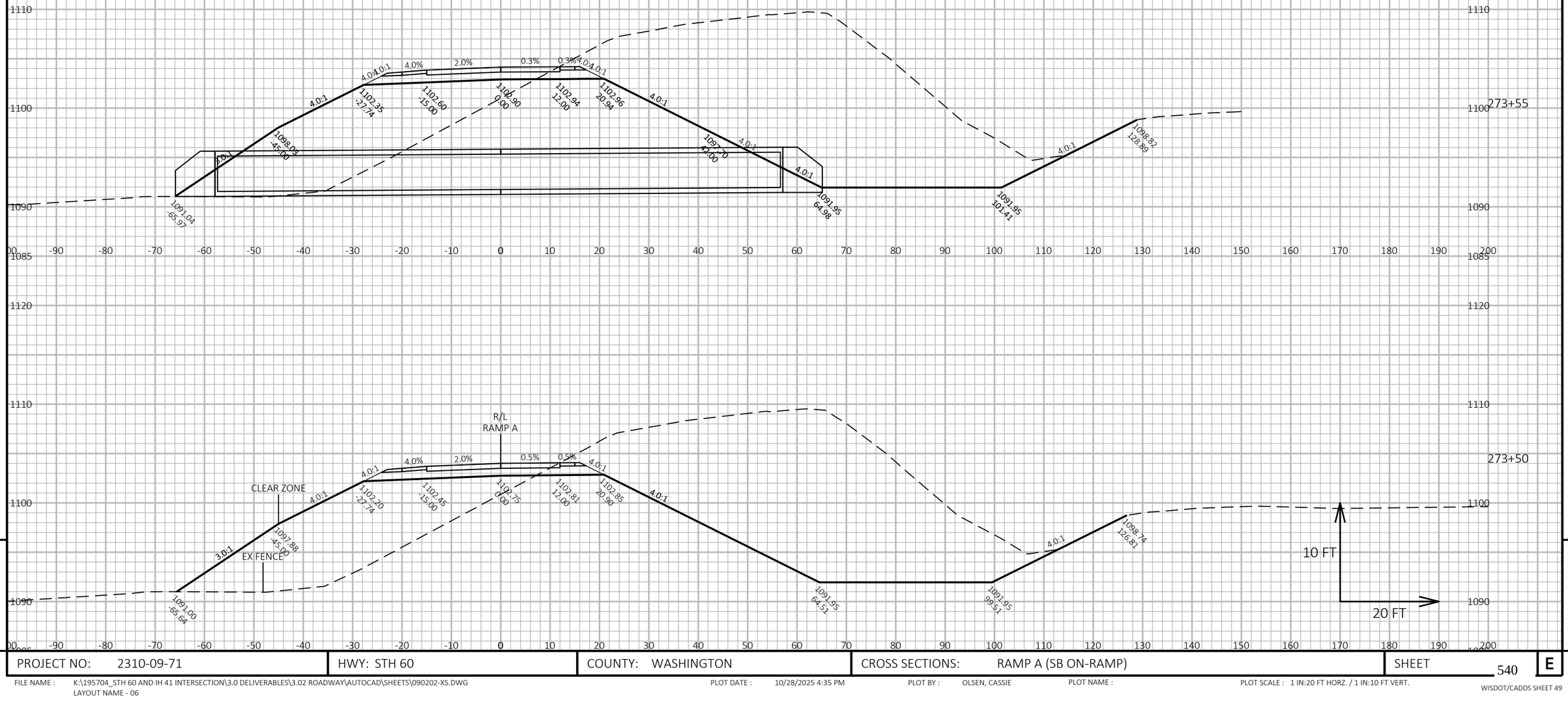
9

PROJECT NO: 2310-09-71	HWY: STH 60	COUNTY: WASHINGTON	CROSS SECTIONS: RAMP A (SB ON-RAMP)	SHEET 539	E

FILE NAME : K:\195704_STH 60 AND IH 41 INTERSECTION\3.0 DELIVERABLES\3.02 ROADWAY\AUTOCAD\SHEETS\090202-XS.DWG
LAYOUT NAME - 05

PLOT DATE : 10/28/2025 4:35 PM PLOT BY : OLSEN, CASSIE PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

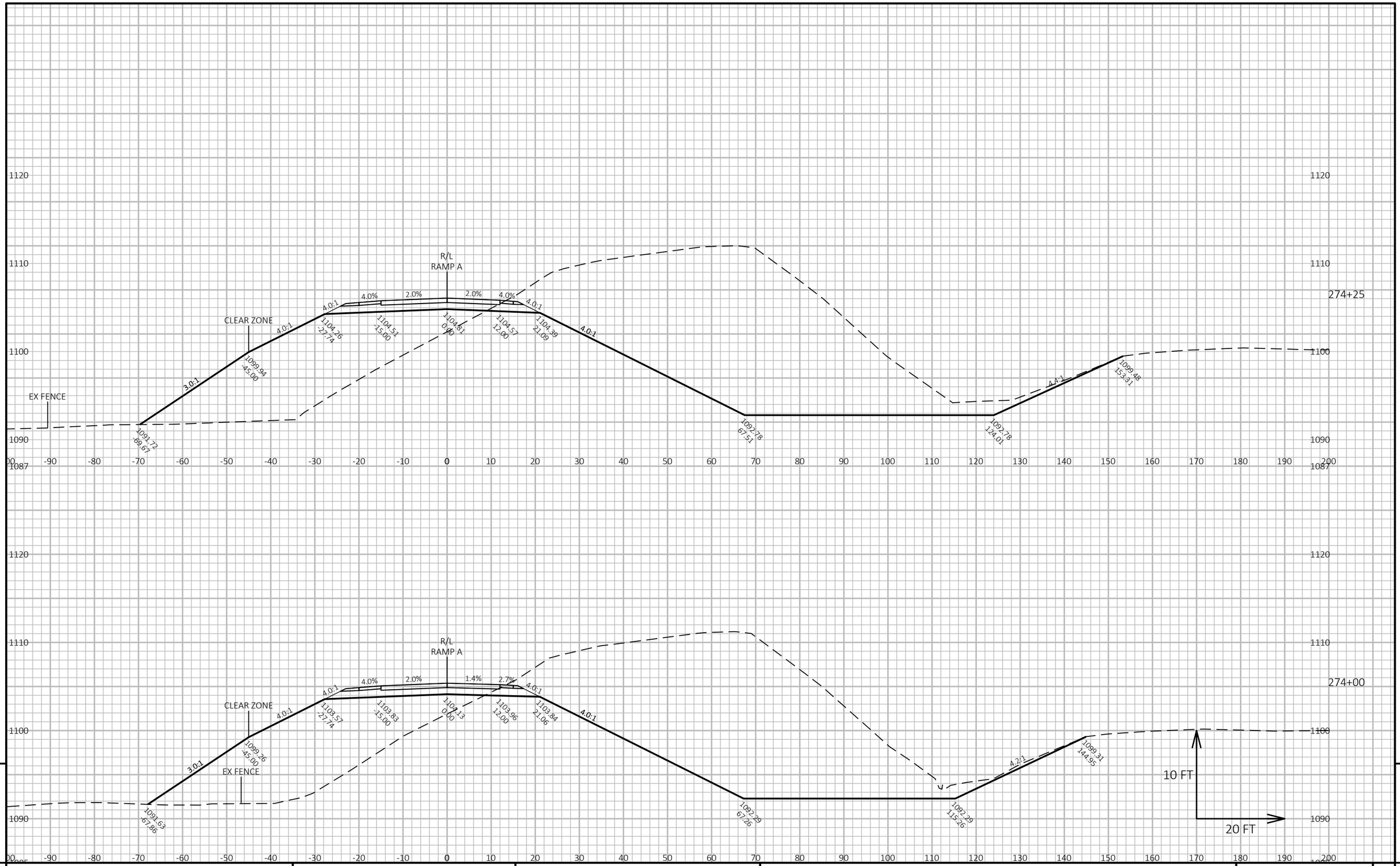
WISDOT/CADDS SHEET 49



PROJECT NO: 2310-09-71	HWY: STH 60	COUNTY: WASHINGTON	CROSS SECTIONS: RAMP A (SB ON-RAMP)	SHEET 540	E

FILE NAME : K:\195704_STH 60 AND IH 41 INTERSECTION\3.0 DELIVERABLES\3.02 ROADWAY\AUTOCAD\SHEETS\090202-XS.DWG
LAYOUT NAME - 06

PLOT DATE : 10/28/2025 4:35 PM PLOT BY : OLSEN, CASSIE PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.



9

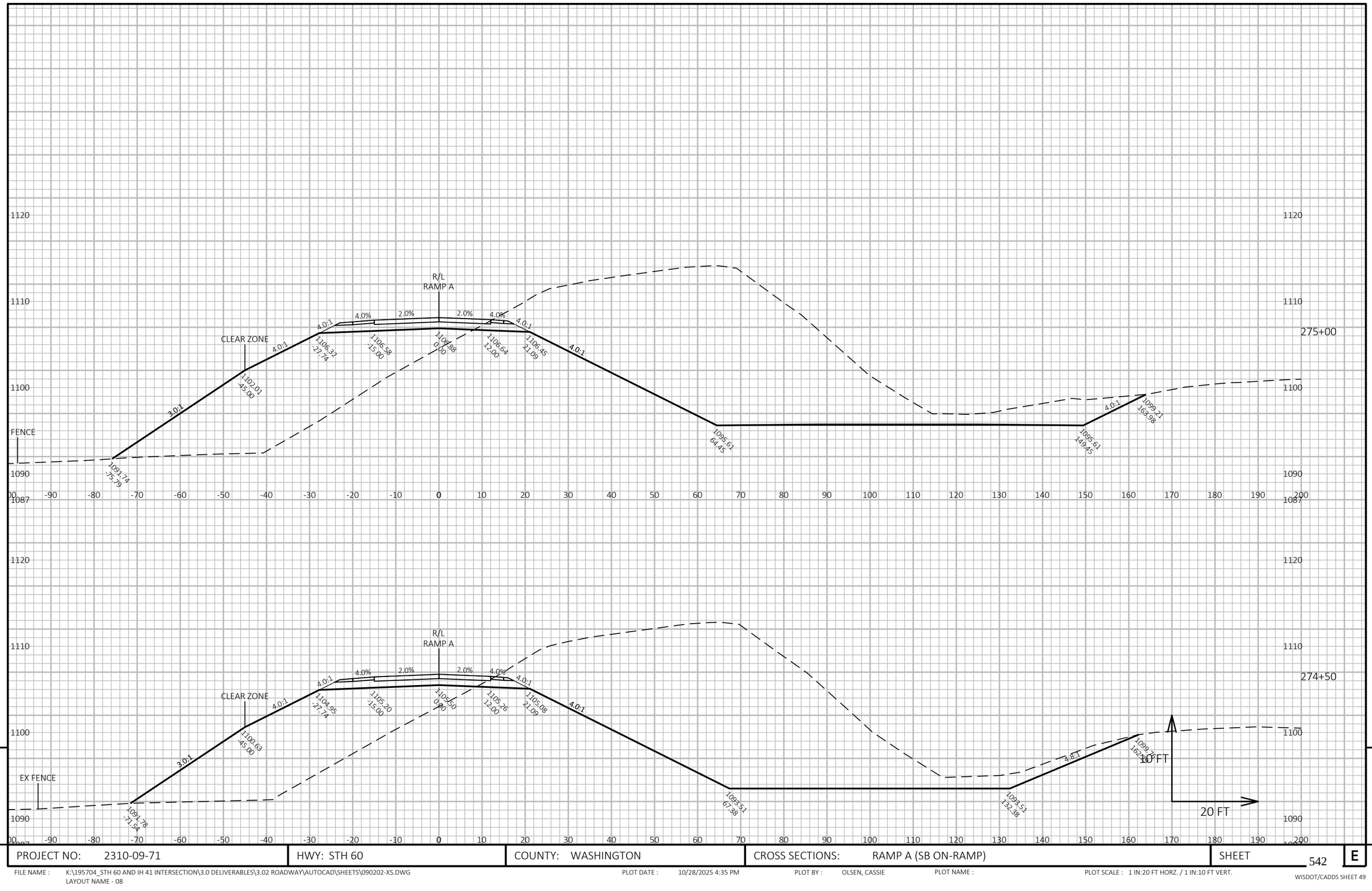
9

PROJECT NO: 2310-09-71	HWY: STH 60	COUNTY: WASHINGTON	CROSS SECTIONS: RAMP A (SB ON-RAMP)	SHEET 541	E

FILE NAME : K:\195704_STH 60 AND IH 41 INTERSECTION\3.0 DELIVERABLES\3.02 ROADWAY\AUTOCAD\SHEETS\090202-XS.DWG
LAYOUT NAME - 07

PLOT DATE : 10/28/2025 4:35 PM PLOT BY : OLSEN, CASSIE PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



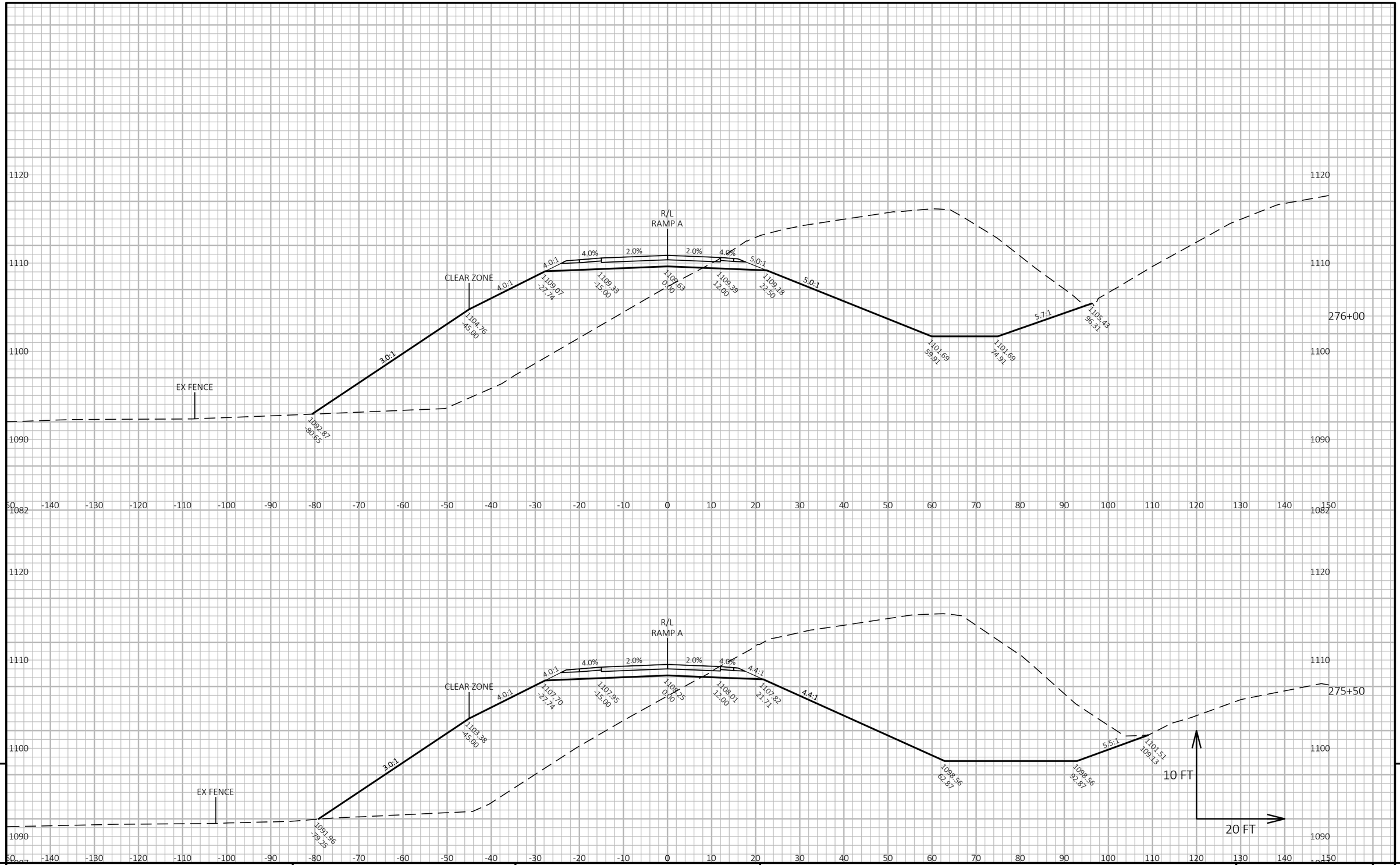
9 9

PROJECT NO: 2310-09-71	HWY: STH 60	COUNTY: WASHINGTON	CROSS SECTIONS: RAMP A (SB ON-RAMP)	SHEET 542	E

FILE NAME : K:\195704_STH 60 AND IH 41 INTERSECTION\3.0 DELIVERABLES\3.02 ROADWAY\AUTOCAD\SHEETS\090202-XS.DWG
LAYOUT NAME - 08

PLOT DATE : 10/28/2025 4:35 PM PLOT BY : OLSEN, CASSIE PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

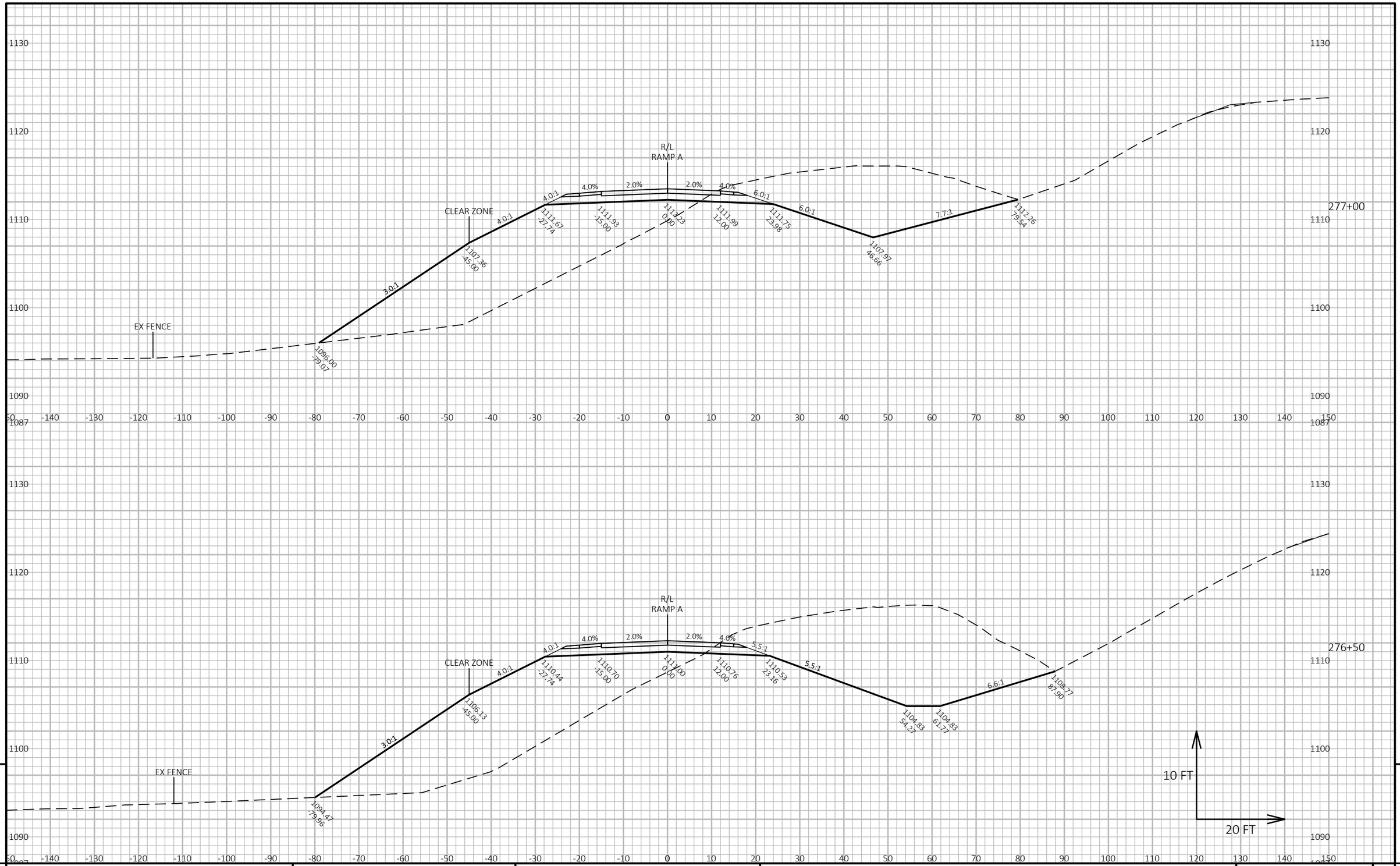
9

PROJECT NO: 2310-09-71	HWY: STH 60	COUNTY: WASHINGTON	CROSS SECTIONS: RAMP A (SB ON-RAMP)	SHEET 543	E

FILE NAME : K:\195704_STH 60 AND IH 41 INTERSECTION\3.0 DELIVERABLES\3.02 ROADWAY\AUTOCAD\SHEETS\090202-XS.DWG
LAYOUT NAME - 09

PLOT DATE : 10/28/2025 4:35 PM PLOT BY : OLSEN, CASSIE PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

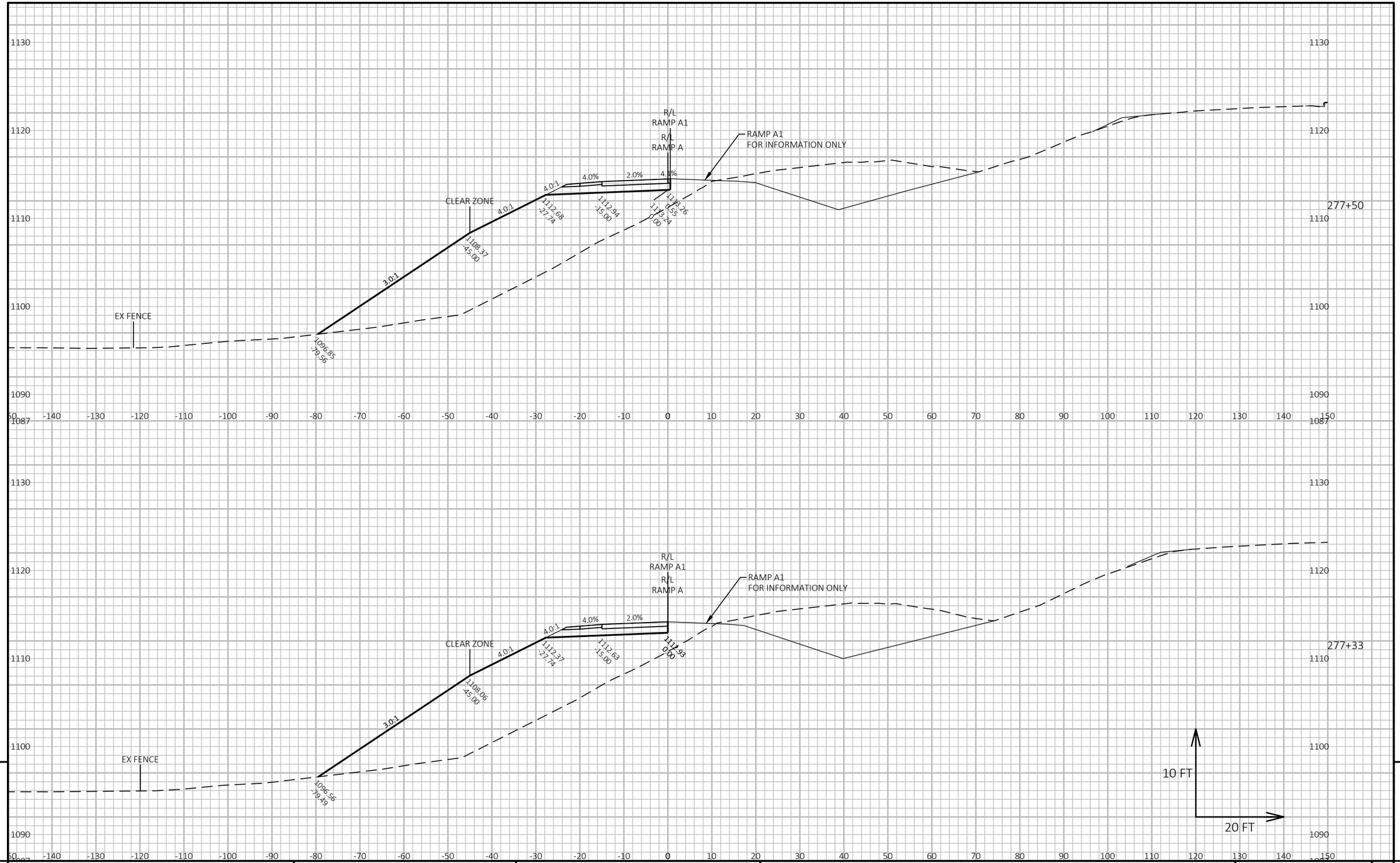


PROJECT NO: 2310-09-71	HWY: STH 60	COUNTY: WASHINGTON	CROSS SECTIONS: RAMP A (SB ON-RAMP)	SHEET 544 E

FILE NAME : K:\195704_STH 60 AND IH 41 INTERSECTION\3.0 DELIVERABLES\3.02 ROADWAY\AUTOCAD\SHEETS\090202-XS.DWG
LAYOUT NAME - 10

PLOT DATE : 10/28/2025 4:35 PM PLOT BY : OLSEN, CASSIE PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

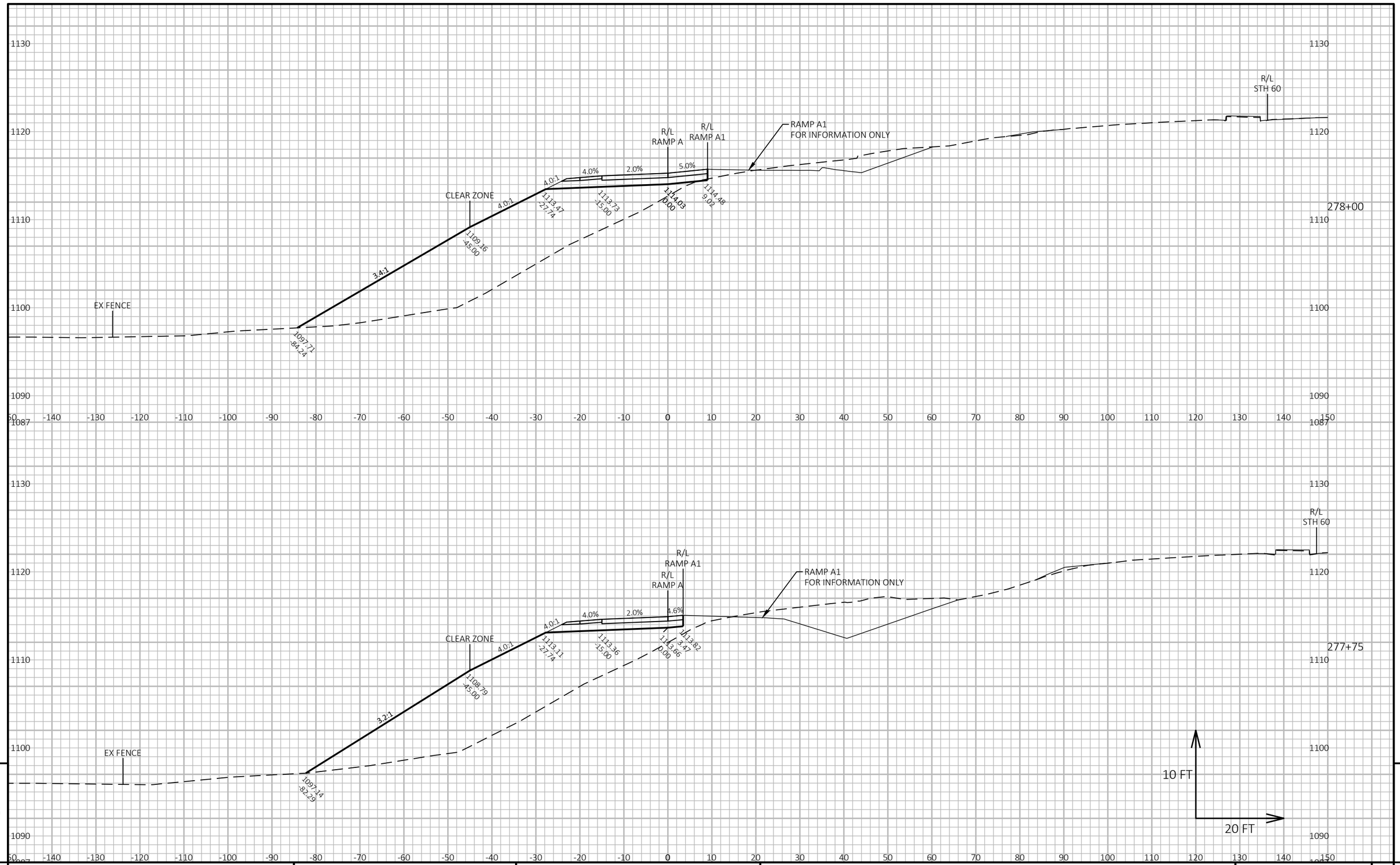
9

PROJECT NO: 2310-09-71	HWY: STH 60	COUNTY: WASHINGTON	CROSS SECTIONS: RAMP A (SB ON-RAMP)	SHEET 545	E

FILE NAME : K:\195704_STH 60 AND IH 41 INTERSECTION\3.0 DELIVERABLES\3.02 ROADWAY\AUTOCAD\SHEETS\090202-XS.DWG
LAYOUT NAME - 11

PLOT DATE : 10/28/2025 4:35 PM PLOT BY : OLSEN, CASSIE PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

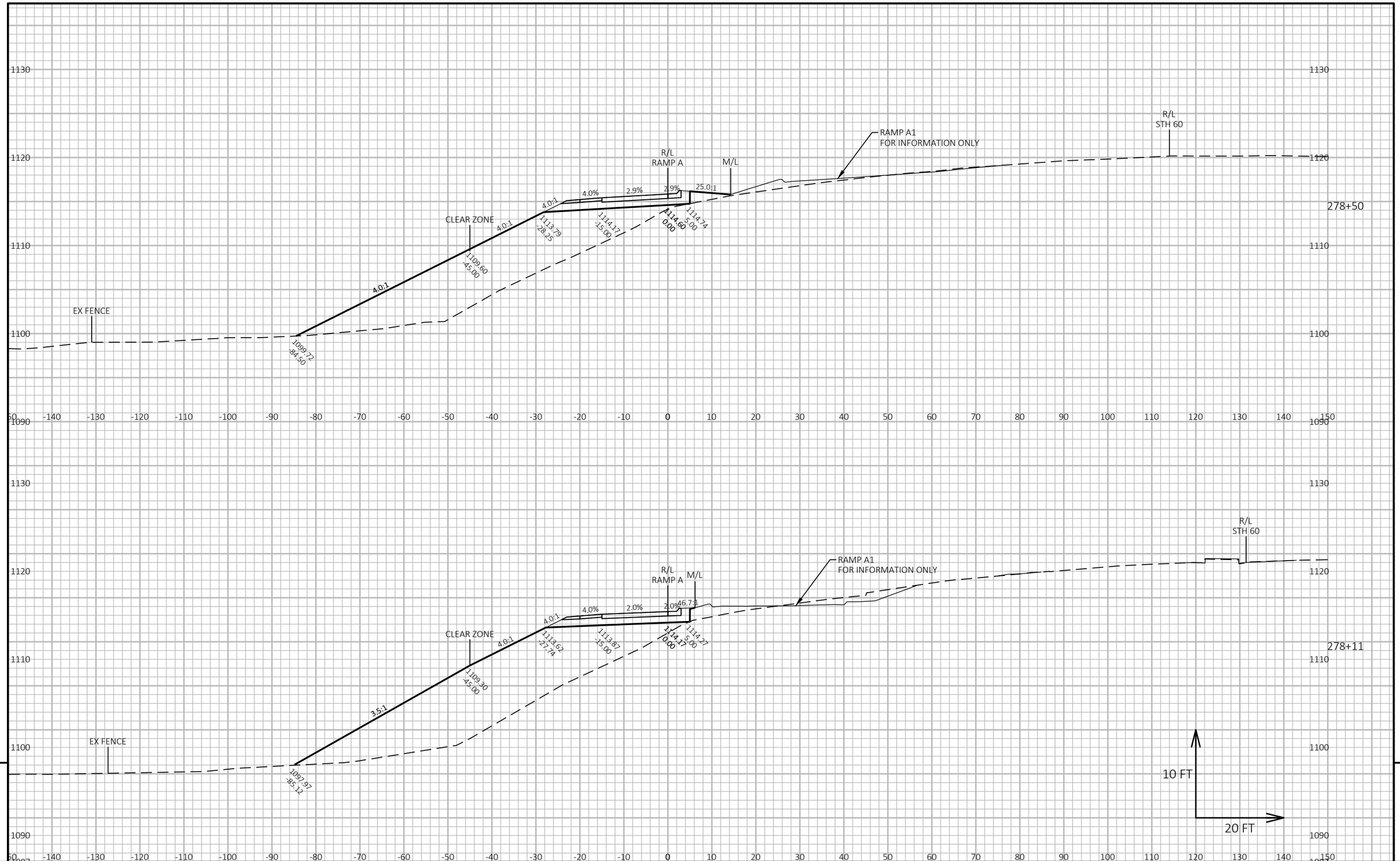
9

PROJECT NO: 2310-09-71	HWY: STH 60	COUNTY: WASHINGTON	CROSS SECTIONS: RAMP A (SB ON-RAMP)	SHEET 546	E

FILE NAME : K:\195704_STH 60 AND IH 41 INTERSECTION\3.0 DELIVERABLES\3.02 ROADWAY\AUTOCAD\SHEETS\090202-XS.DWG
LAYOUT NAME - 12

PLOT DATE : 10/28/2025 4:35 PM PLOT BY : OLSEN, CASSIE PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

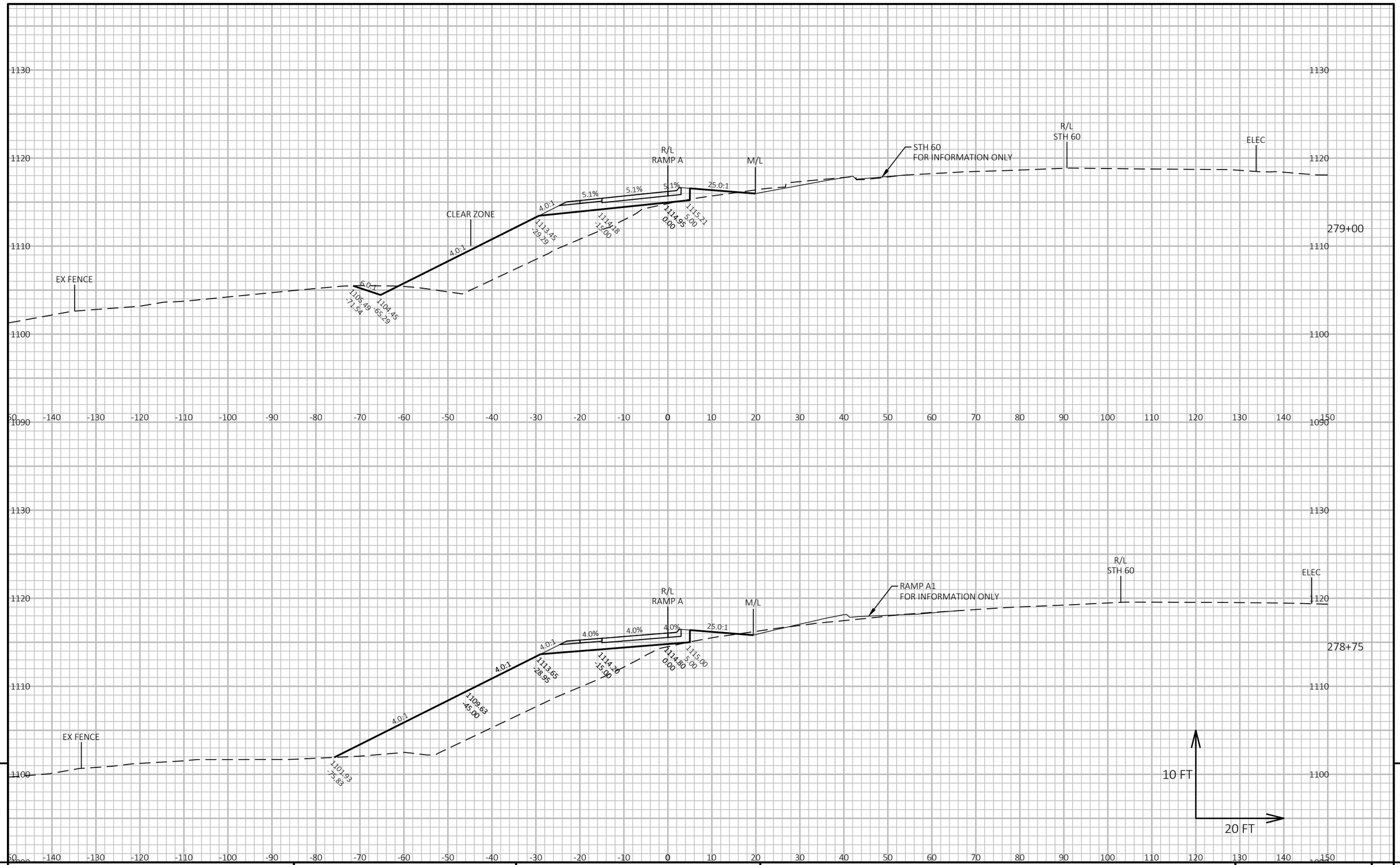


PROJECT NO: 2310-09-71	HWY: STH 60	COUNTY: WASHINGTON	CROSS SECTIONS: RAMP A (SB ON-RAMP)	SHEET 547	E

FILE NAME : K:\195704_STH 60 AND IH 41 INTERSECTION\3.0 DELIVERABLES\3.02 ROADWAY\AUTOCAD\SHEETS\090202-XS.DWG
LAYOUT NAME - 13

PLOT DATE : 10/28/2025 4:35 PM PLOT BY : OLSEN, CASSIE PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

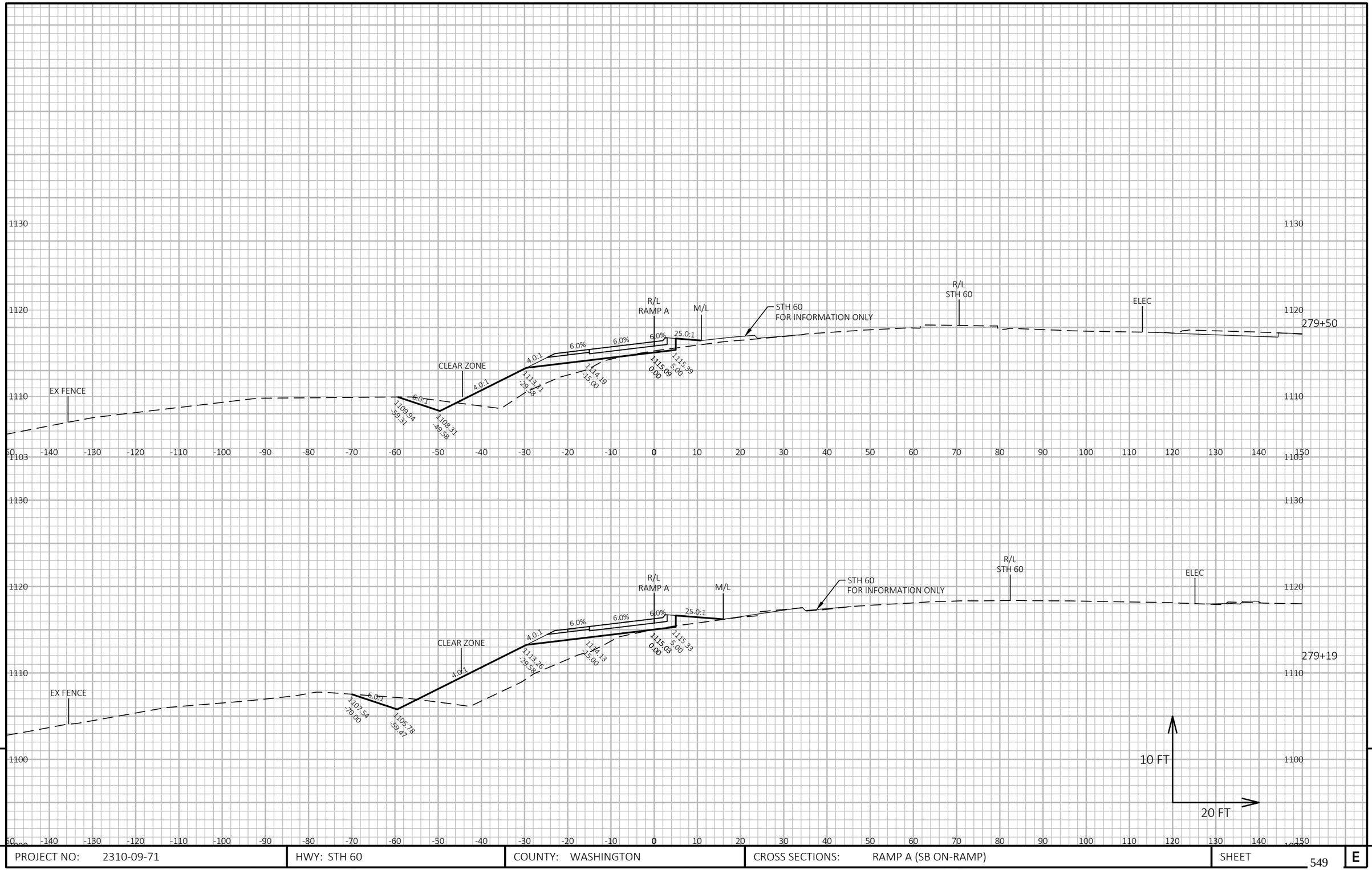
9

PROJECT NO: 2310-09-71	HWY: STH 60	COUNTY: WASHINGTON	CROSS SECTIONS: RAMP A (SB ON-RAMP)	SHEET 548	E

FILE NAME : K:\195704_STH 60 AND IH 41 INTERSECTION\3.0 DELIVERABLES\3.02 ROADWAY\AUTOCAD\SHEETS\090202-XS.DWG
LAYOUT NAME - 14

PLOT DATE : 10/28/2025 4:35 PM PLOT BY : OLSEN, CASSIE PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

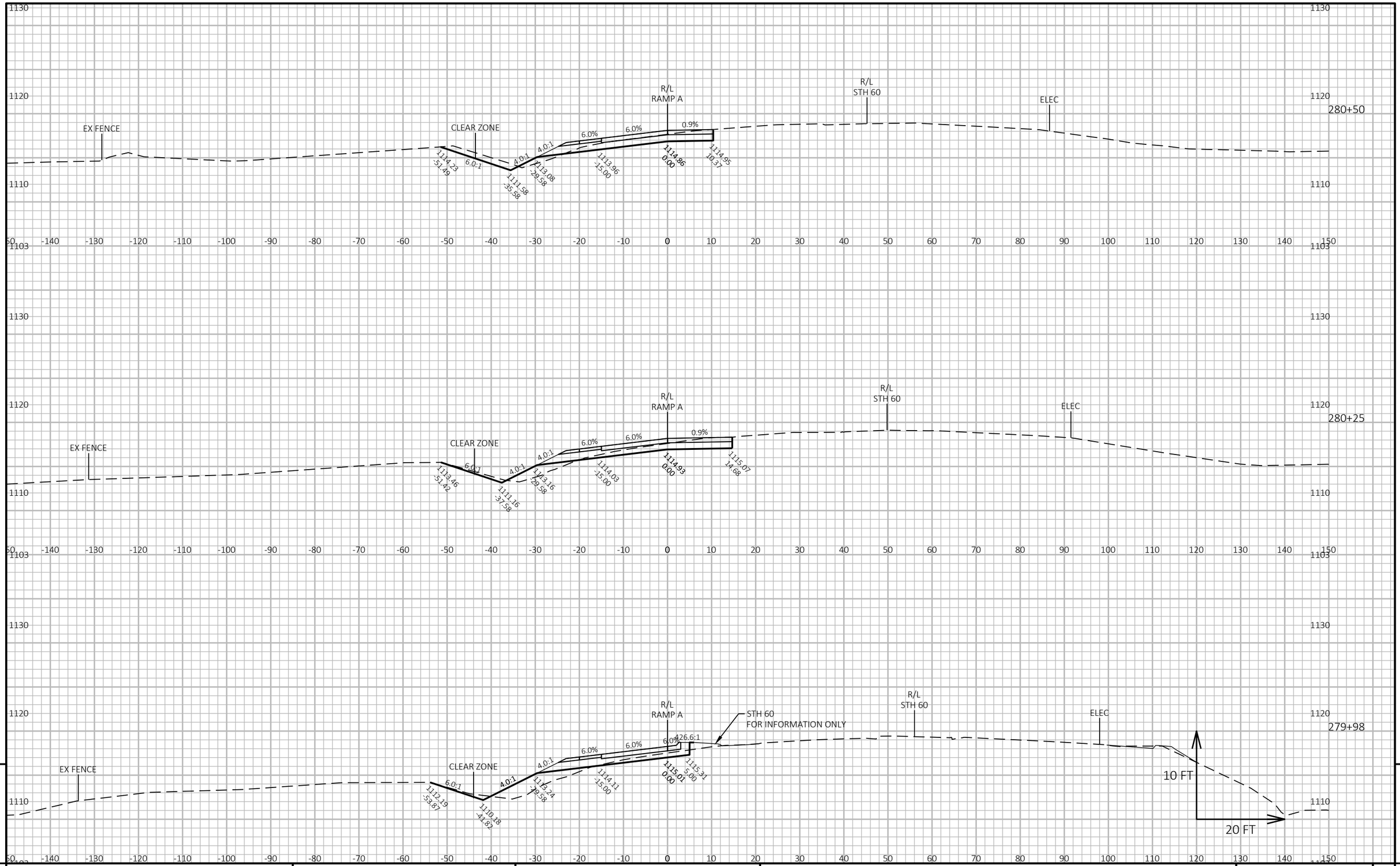


PROJECT NO: 2310-09-71	HWY: STH 60	COUNTY: WASHINGTON	CROSS SECTIONS: RAMP A (SB ON-RAMP)	SHEET 549	E

FILE NAME : K:\195704_STH 60 AND IH 41 INTERSECTION\3.0 DELIVERABLES\3.02 ROADWAY\AUTOCAD\SHEETS\090202-XS.DWG
LAYOUT NAME - 15

PLOT DATE : 10/28/2025 4:35 PM PLOT BY : OLSEN, CASSIE PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

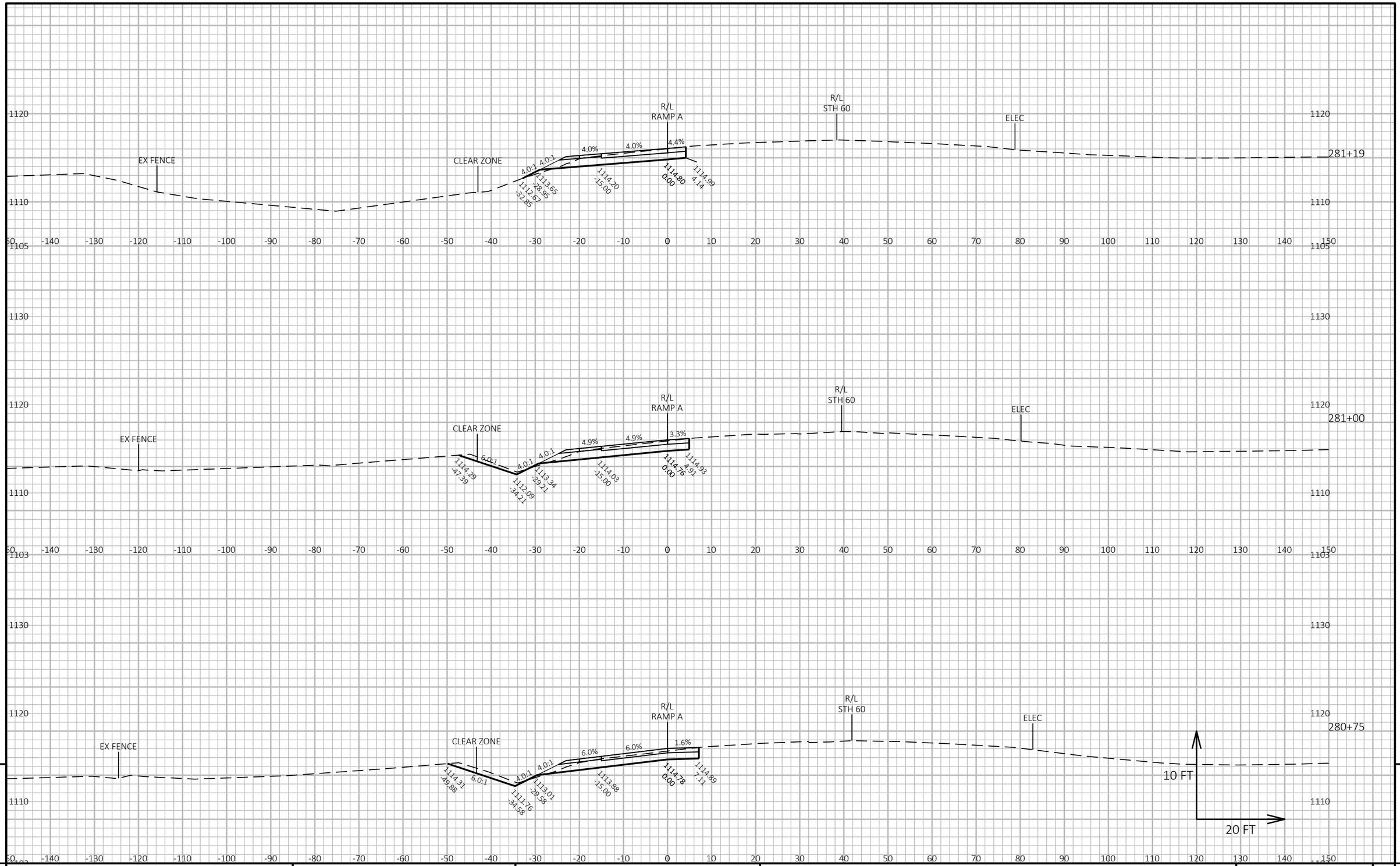
9

PROJECT NO: 2310-09-71	HWY: STH 60	COUNTY: WASHINGTON	CROSS SECTIONS: RAMP A (SB ON-RAMP)	SHEET 550	E

FILE NAME : K:\195704_STH 60 AND IH 41 INTERSECTION\3.0 DELIVERABLES\3.02 ROADWAY\AUTOCAD\SHEETS\090202-XS.DWG
LAYOUT NAME - 16

PLOT DATE : 10/28/2025 4:36 PM PLOT BY : OLSEN, CASSIE PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

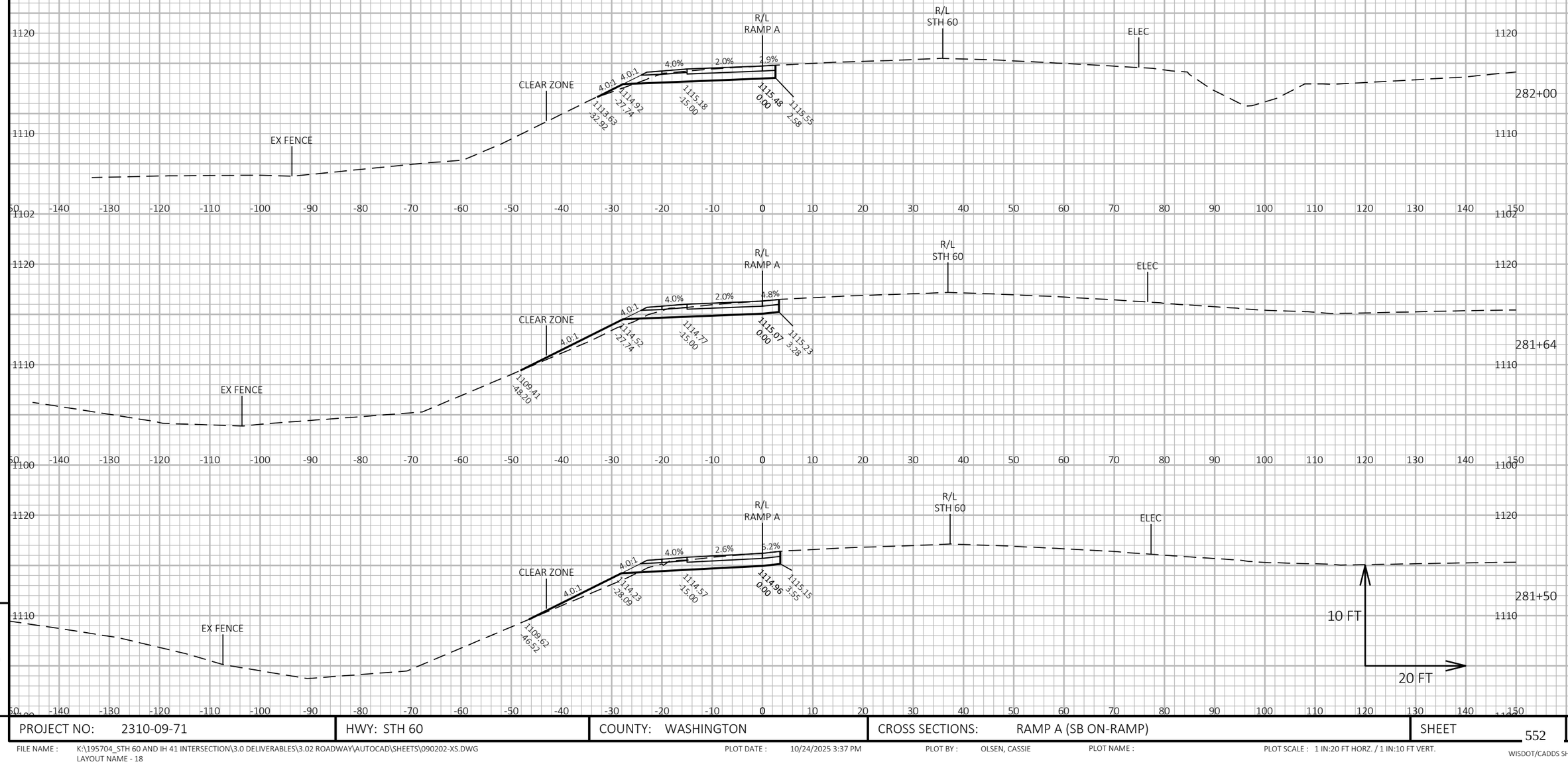
9

PROJECT NO: 2310-09-71	HWY: STH 60	COUNTY: WASHINGTON	CROSS SECTIONS: RAMP A (SB ON-RAMP)	SHEET 551	E

FILE NAME : K:\195704_STH 60 AND IH 41 INTERSECTION\3.0 DELIVERABLES\3.02 ROADWAY\AUTOCAD\SHEETS\090202-XS.DWG
LAYOUT NAME - 17

PLOT DATE : 10/28/2025 4:36 PM PLOT BY : OLSEN, CASSIE PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

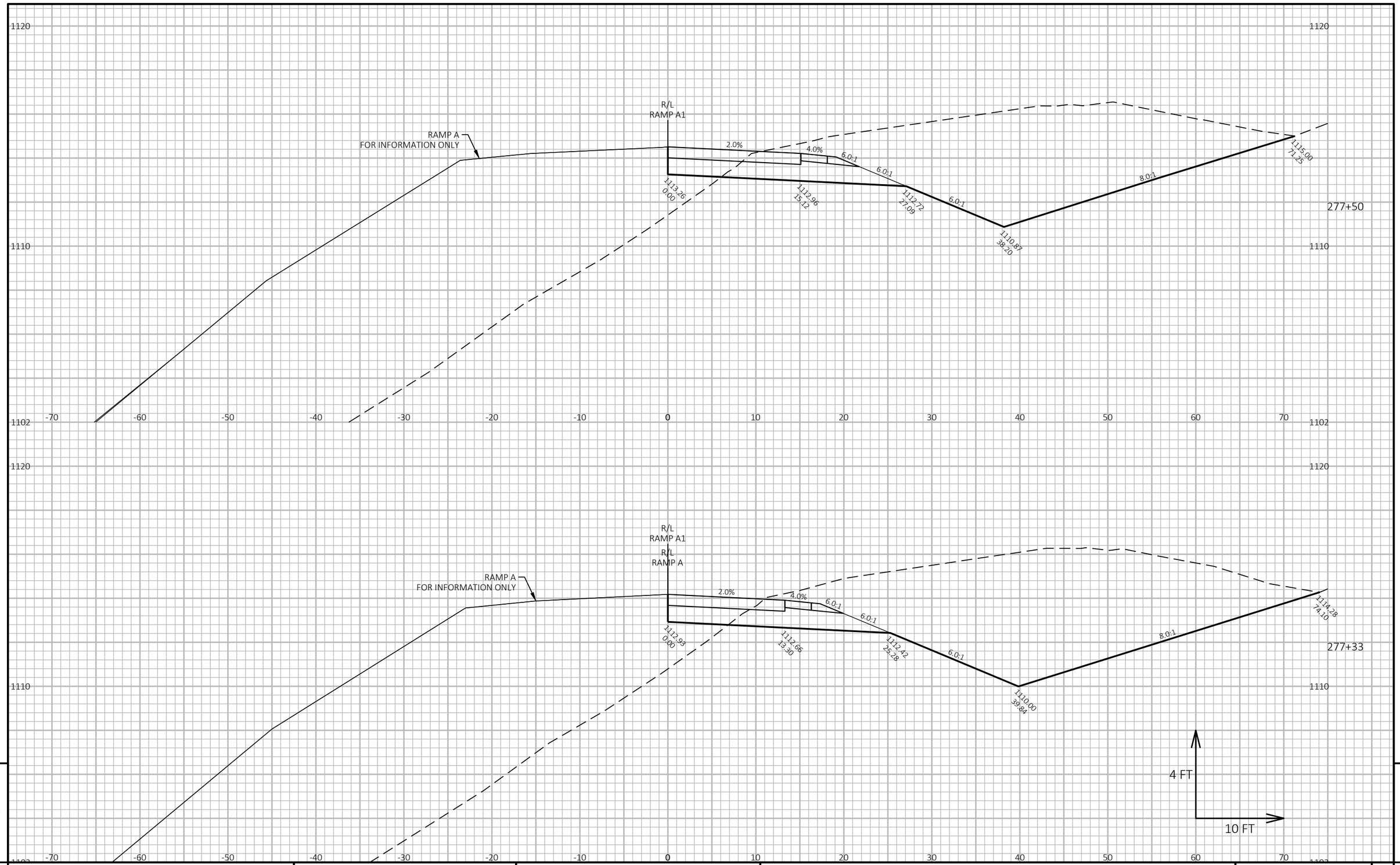


PROJECT NO: 2310-09-71	HWY: STH 60	COUNTY: WASHINGTON	CROSS SECTIONS: RAMP A (SB ON-RAMP)	SHEET 552 E

FILE NAME : K:\195704_STH 60 AND IH 41 INTERSECTION\3.0 DELIVERABLES\3.02 ROADWAY\AUTOCAD\SHEETS\090202-XS.DWG
LAYOUT NAME - 18

PLOT DATE : 10/24/2025 3:37 PM PLOT BY : OLSEN, CASSIE PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

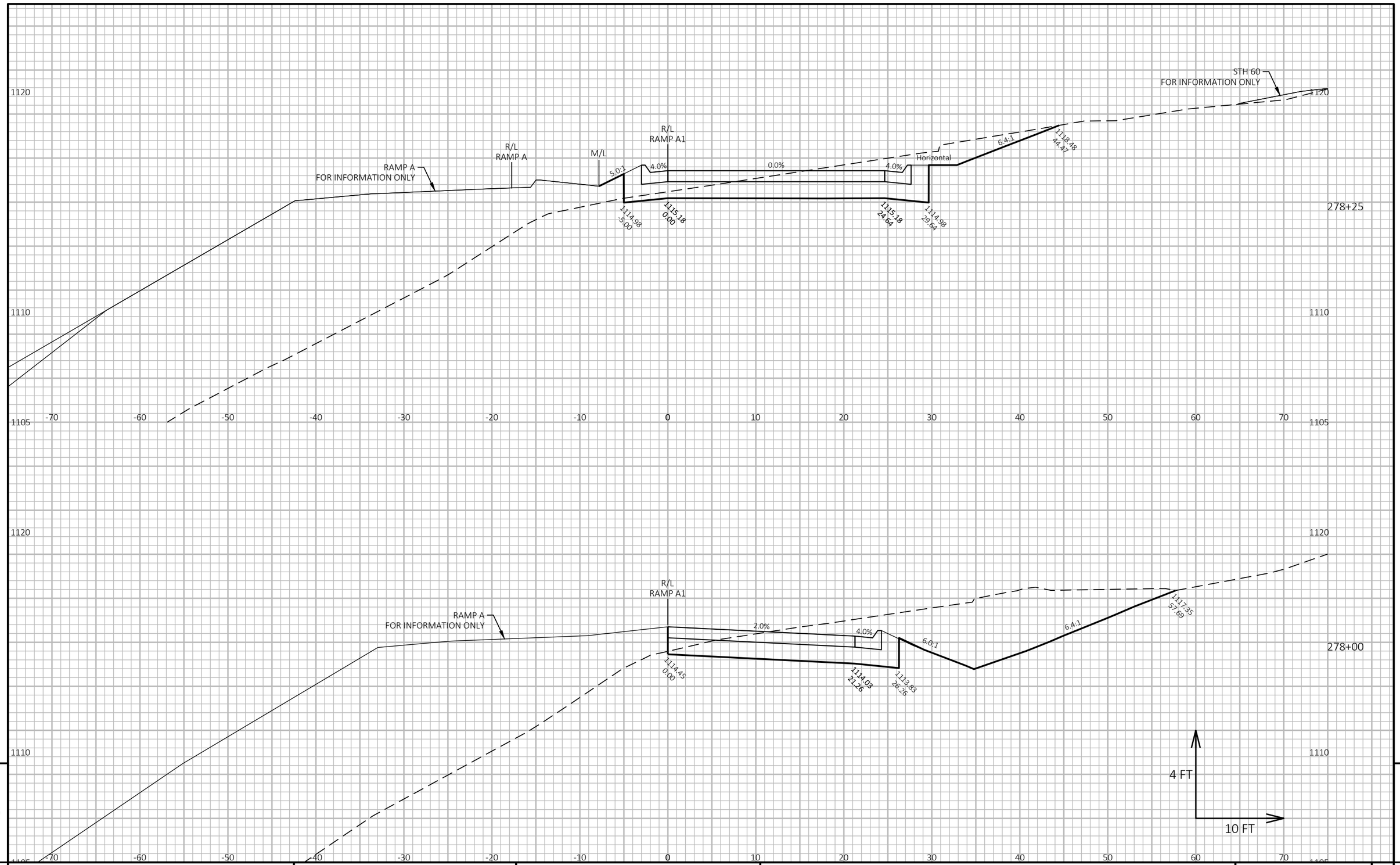
9

PROJECT NO: 2310-09-71	HWY: STH 60	COUNTY: WASHINGTON	CROSS SECTIONS: RAMP A1 (SB ON-RAMP)	SHEET 553	E

FILE NAME : K:\195704_STH 60 AND IH 41 INTERSECTION\3.0 DELIVERABLES\3.02 ROADWAY\AUTOCAD\SHEETS\090202-A1-XS.DWG
LAYOUT NAME - 01

PLOT DATE : 10/24/2025 3:10 PM PLOT BY : OLSEN, CASSIE PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:4 FT VERT.

WISDOT/CADDS SHEET 49

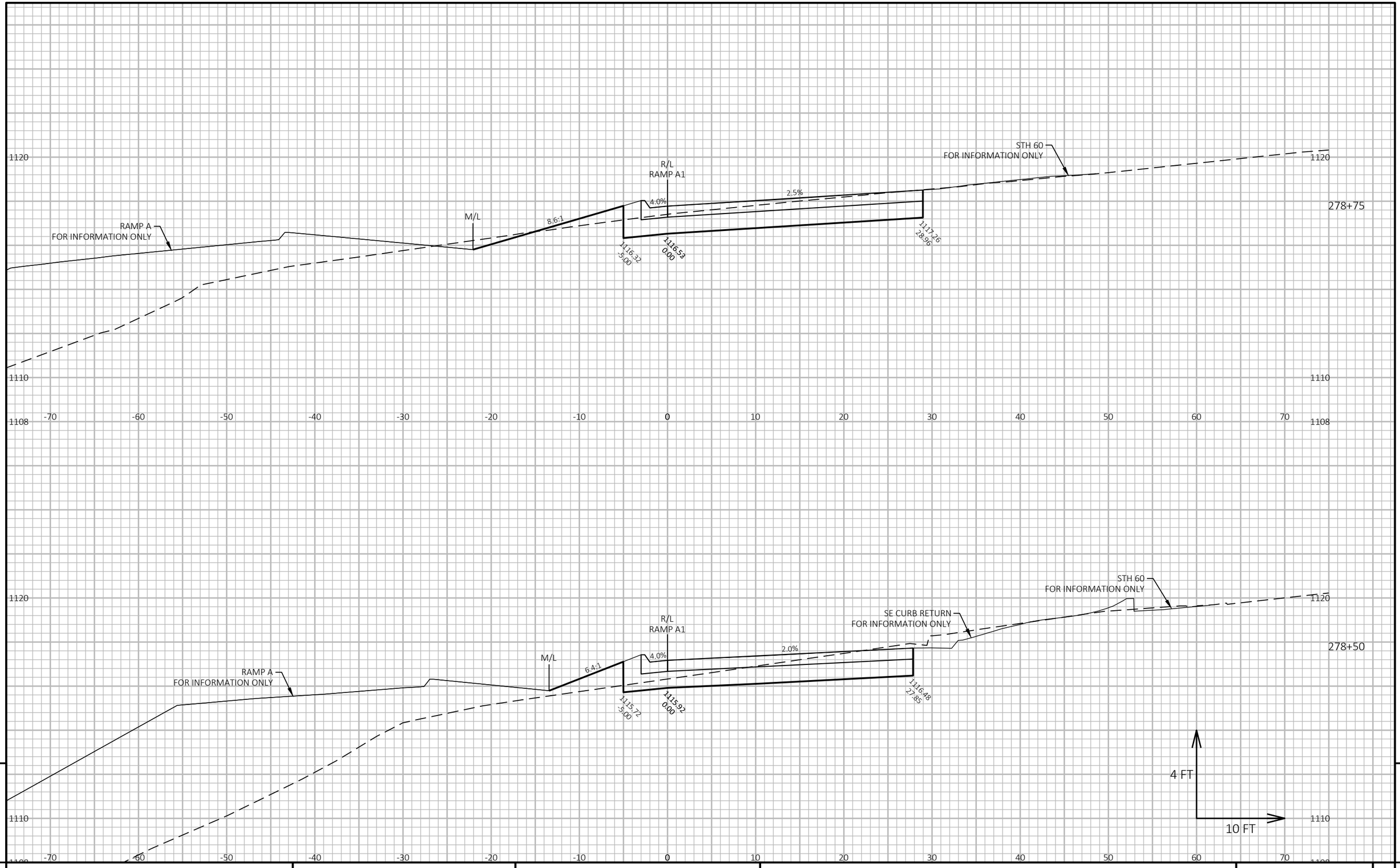


PROJECT NO: 2310-09-71	HWY: STH 60	COUNTY: WASHINGTON	CROSS SECTIONS: RAMP A1 (SB ON-RAMP)	SHEET 554	E

FILE NAME : K:\195704_STH 60 AND IH 41 INTERSECTION\3.0 DELIVERABLES\3.02 ROADWAY\AUTOCAD\SHEETS\090202-A1-XS.DWG
LAYOUT NAME - 02

PLOT DATE : 10/24/2025 3:10 PM PLOT BY : OLSEN, CASSIE PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:4 FT VERT.

WISDOT/CADDS SHEET 49

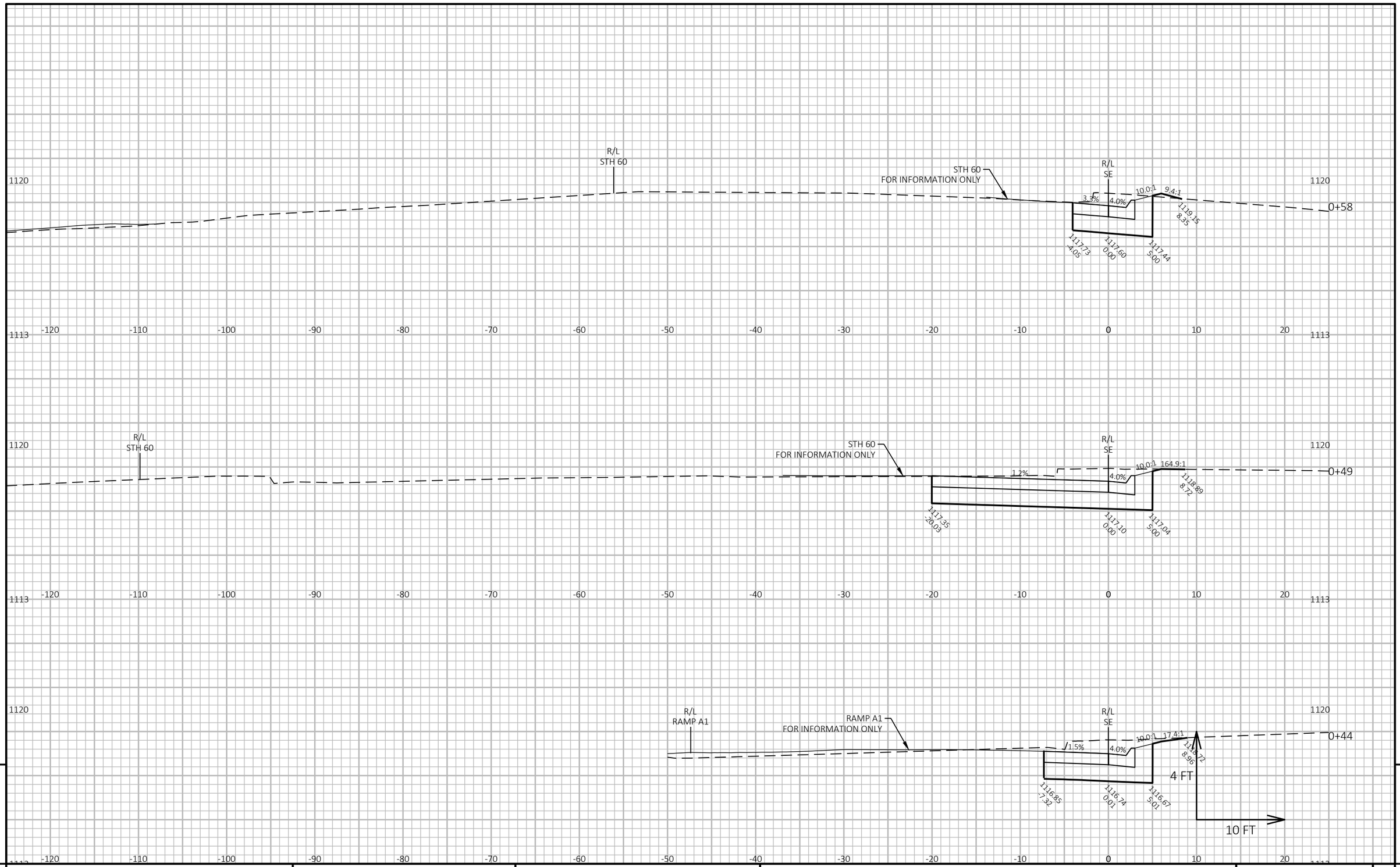


PROJECT NO: 2310-09-71	HWY: STH 60	COUNTY: WASHINGTON	CROSS SECTIONS: RAMP A1 (SB ON-RAMP)	SHEET 555	E

FILE NAME : K:\195704_STH 60 AND IH 41 INTERSECTION\3.0 DELIVERABLES\3.02 ROADWAY\AUTOCAD\SHEETS\090202-A1-XS.DWG
LAYOUT NAME - 03

PLOT DATE : 10/24/2025 3:10 PM PLOT BY : OLSEN, CASSIE PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:4 FT VERT.

WISDOT/CADDS SHEET 49



9

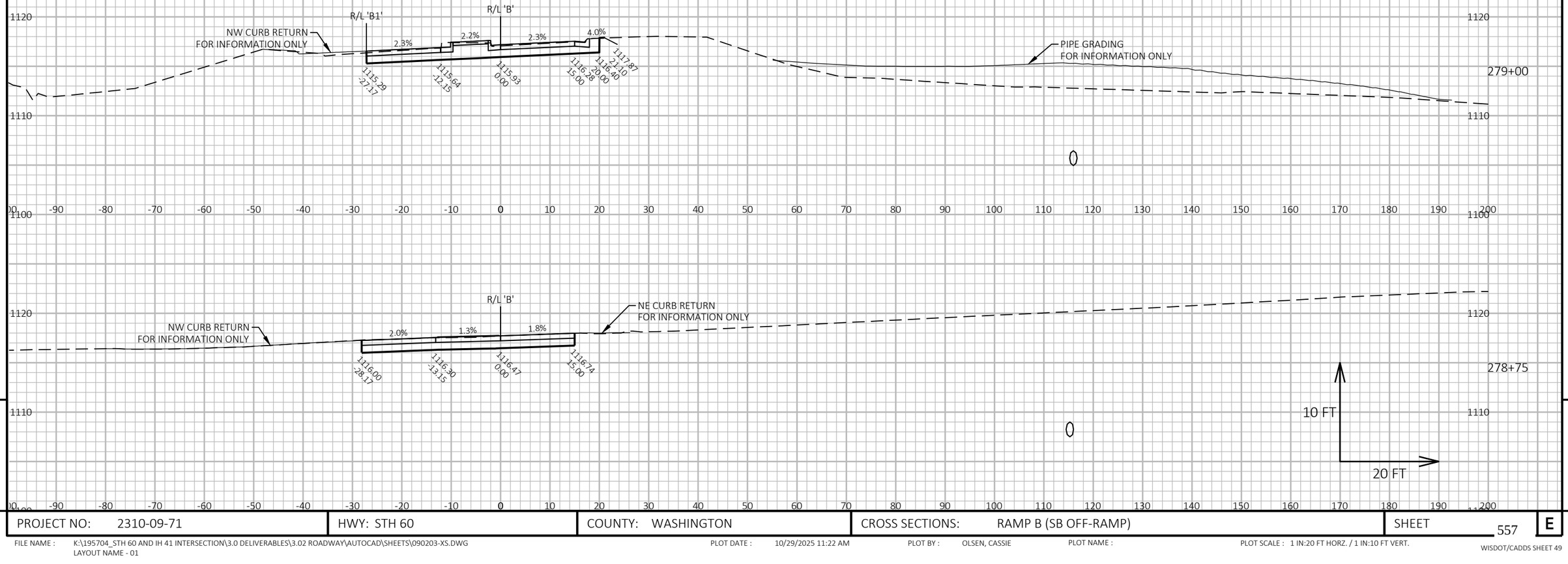
9

PROJECT NO: 2310-09-71	HWY: STH 60	COUNTY: WASHINGTON	CROSS SECTIONS: RAMP A1 (SB ON-RAMP) - SE CURB RETURN	SHEET 556	E

FILE NAME : K:\195704_STH 60 AND IH 41 INTERSECTION\3.0 DELIVERABLES\3.02 ROADWAY\AUTOCAD\SHEETS\090202-A1-XS.DWG
LAYOUT NAME - 11

PLOT DATE : 10/24/2025 3:10 PM PLOT BY : OLSEN, CASSIE PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:4 FT VERT.

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 2310-09-71	HWY: STH 60	COUNTY: WASHINGTON	CROSS SECTIONS: RAMP B (SB OFF-RAMP)	SHEET 557	E

FILE NAME : K:\195704_STH 60 AND IH 41 INTERSECTION\3.0 DELIVERABLES\3.02 ROADWAY\AUTOCAD\SHEETS\090203-XS.DWG
LAYOUT NAME - 01

PLOT DATE : 10/29/2025 11:22 AM PLOT BY : OLSEN, CASSIE PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

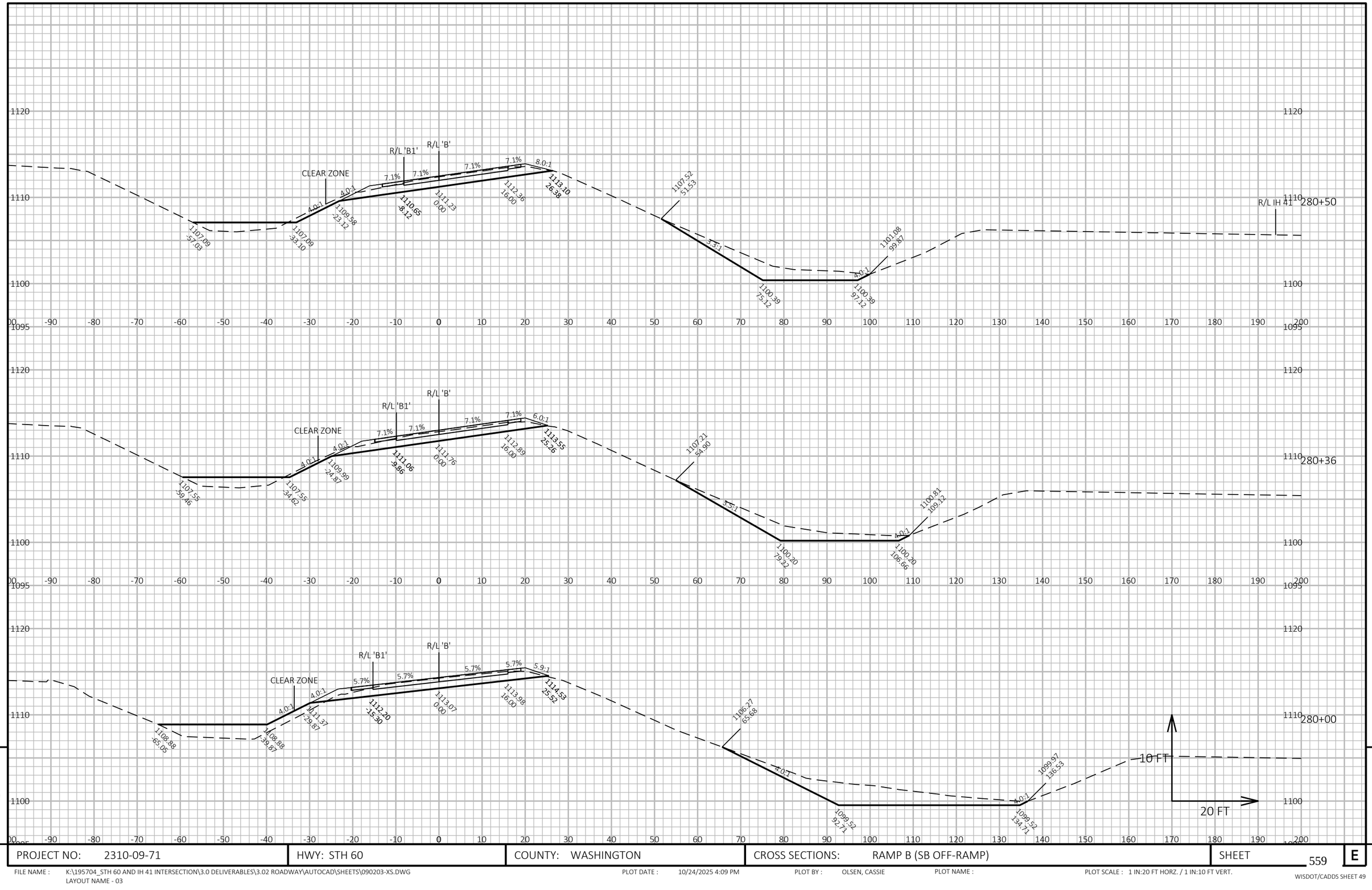
WISDOT/CADDS SHEET 49

PROJECT NO: 2310-09-71	HWY: STH 60	COUNTY: WASHINGTON	CROSS SECTIONS: RAMP B (SB OFF-RAMP)	SHEET 558	E

FILE NAME : K:\195704_STH 60 AND IH 41 INTERSECTION\3.0 DELIVERABLES\3.02 ROADWAY\AUTOCAD\SHEETS\090203-XS.DWG
LAYOUT NAME - 02

PLOT DATE : 10/29/2025 11:23 AM PLOT BY : OLSEN, CASSIE PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 2310-09-71	HWY: STH 60	COUNTY: WASHINGTON	CROSS SECTIONS: RAMP B (SB OFF-RAMP)	SHEET 559	E

FILE NAME : K:\195704_STH 60 AND IH 41 INTERSECTION\3.0 DELIVERABLES\3.02 ROADWAY\AUTOCAD\SHEETS\090203-XS.DWG
LAYOUT NAME - 03

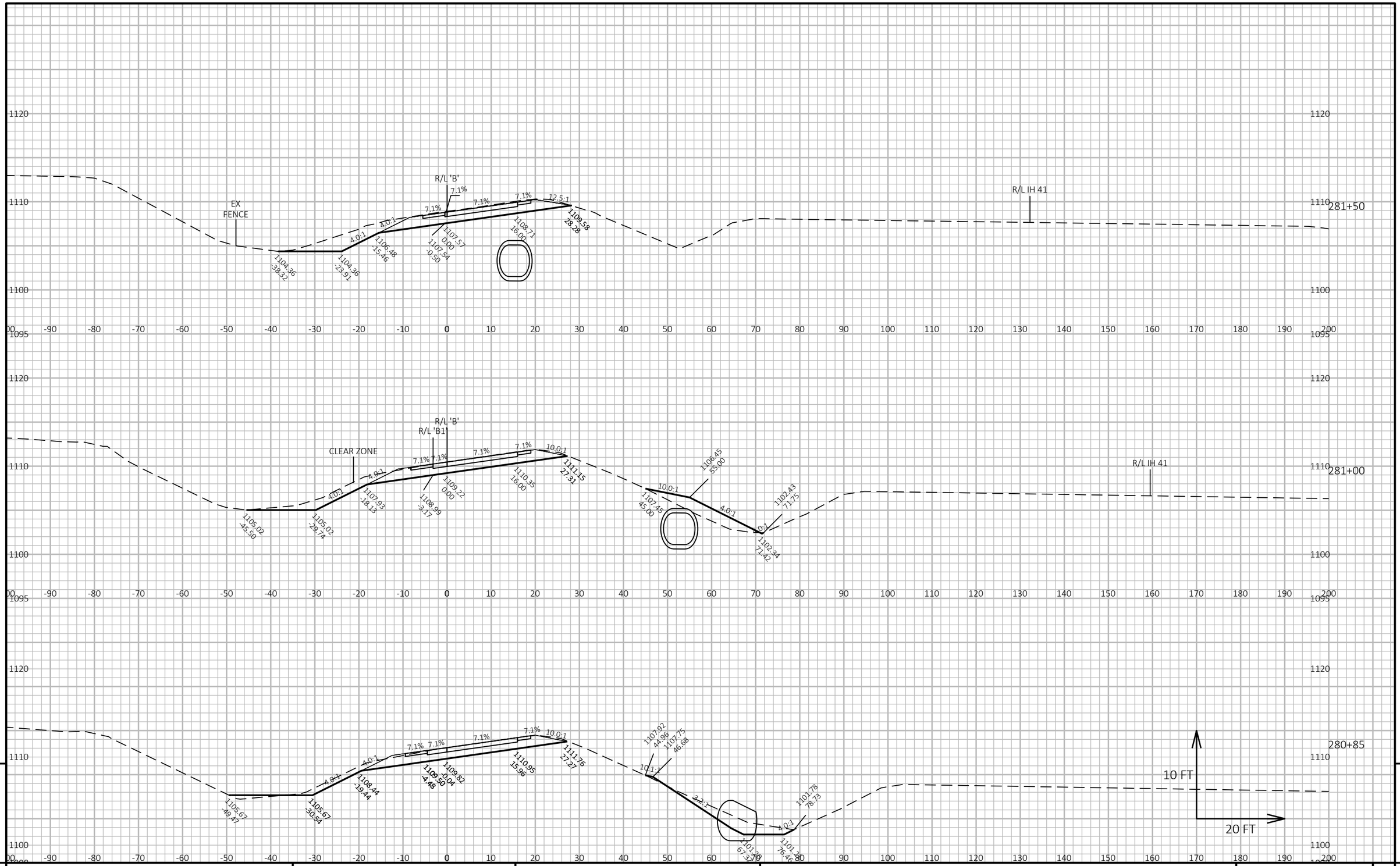
PLOT DATE : 10/24/2025 4:09 PM

PLOT BY : OLSEN, CASSIE

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

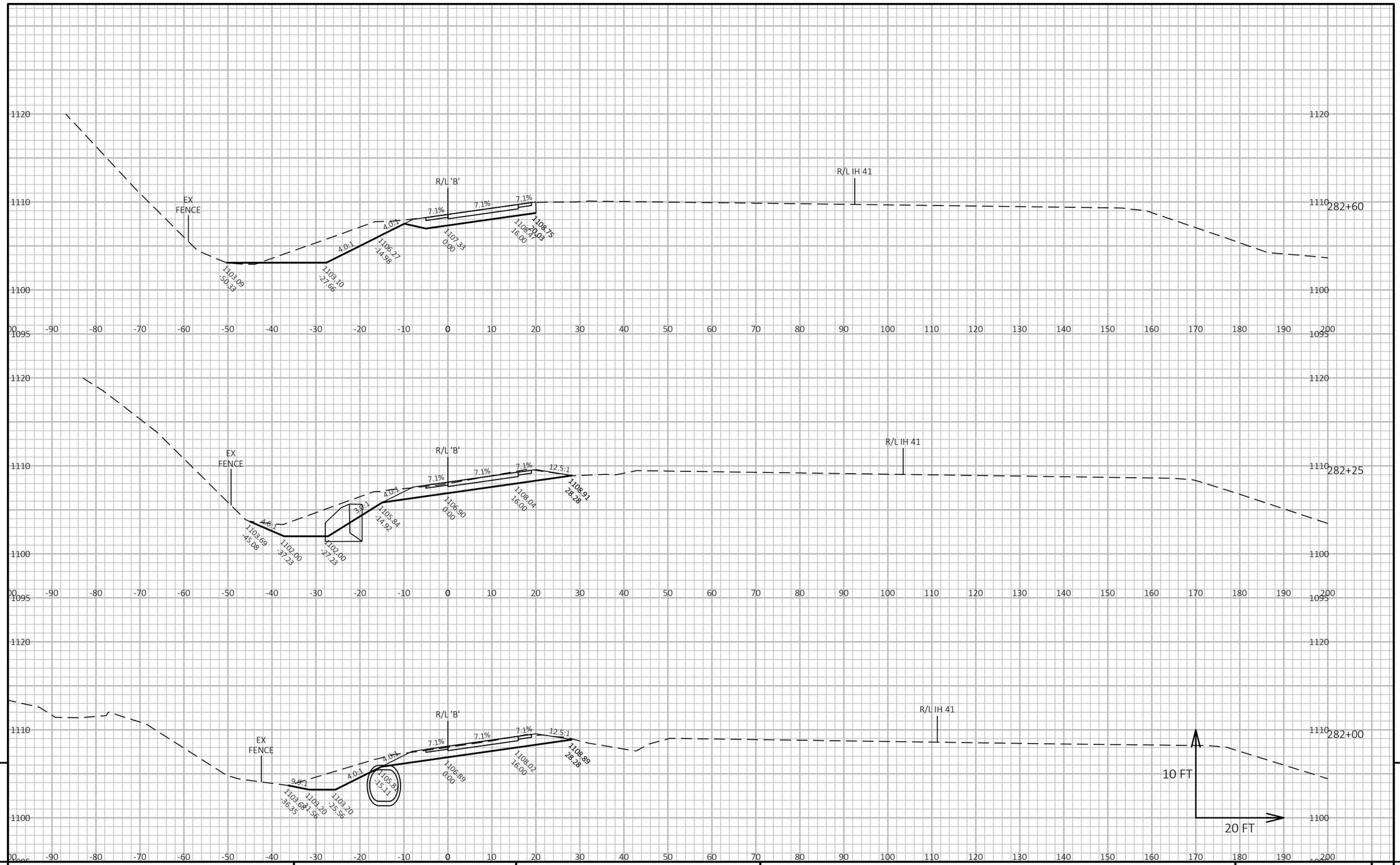


PROJECT NO: 2310-09-71	HWY: STH 60	COUNTY: WASHINGTON	CROSS SECTIONS: RAMP B (SB OFF-RAMP)	SHEET 560	E

FILE NAME : K:\195704_STH 60 AND IH 41 INTERSECTION\3.0 DELIVERABLES\3.02 ROADWAY\AUTOCAD\SHEETS\090203-XS.DWG
LAYOUT NAME - 04

PLOT DATE : 10/24/2025 4:09 PM PLOT BY : OLSEN, CASSIE PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

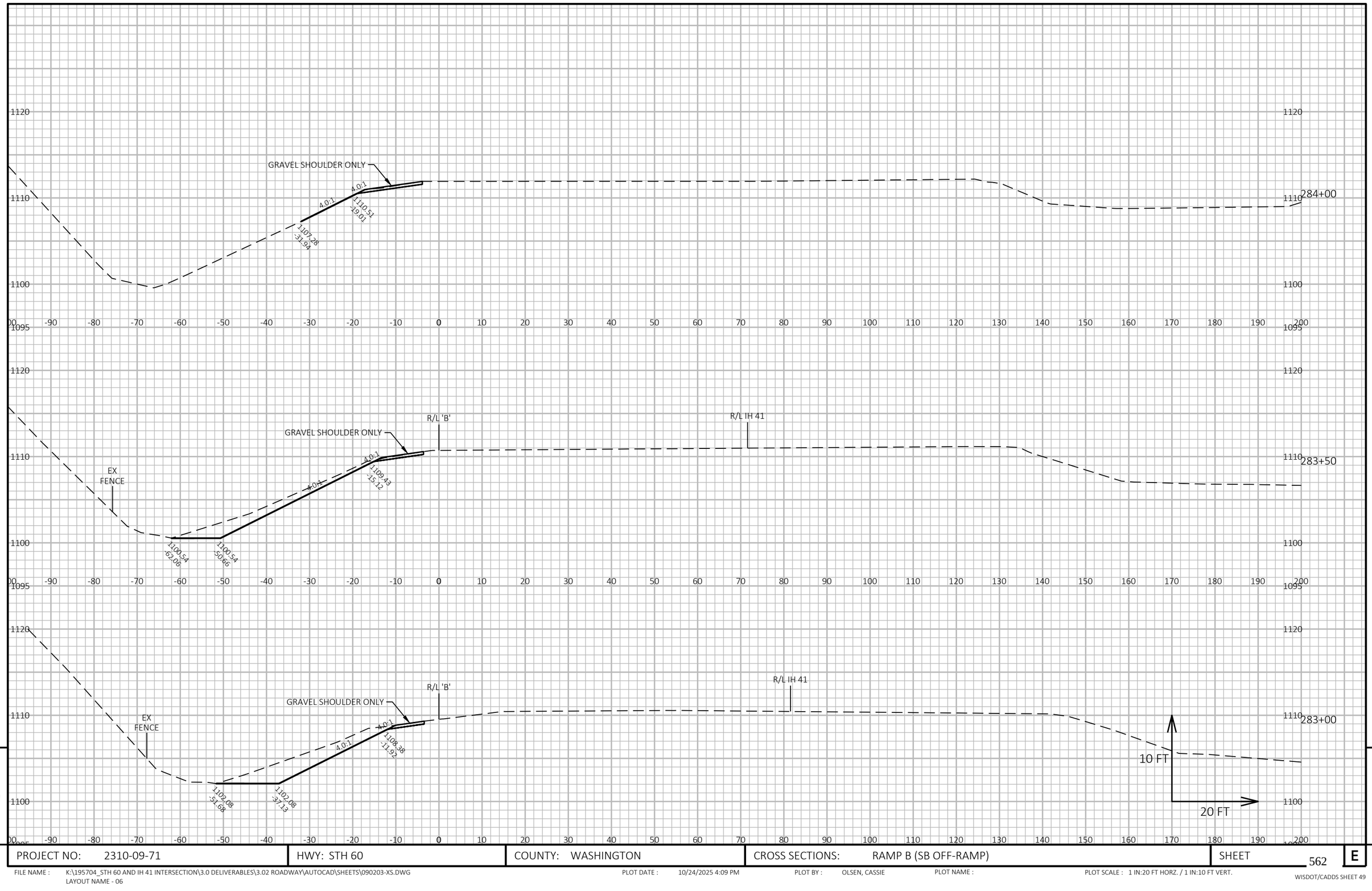


PROJECT NO: 2310-09-71	HWY: STH 60	COUNTY: WASHINGTON	CROSS SECTIONS: RAMP B (SB OFF-RAMP)	SHEET 561	E

FILE NAME : K:\195704_STH 60 AND IH 41 INTERSECTION\3.0 DELIVERABLES\3.02 ROADWAY\AUTOCAD\SHEETS\090203-XS.DWG
LAYOUT NAME - 05

PLOT DATE : 10/24/2025 4:09 PM PLOT BY : OLSEN, CASSIE PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

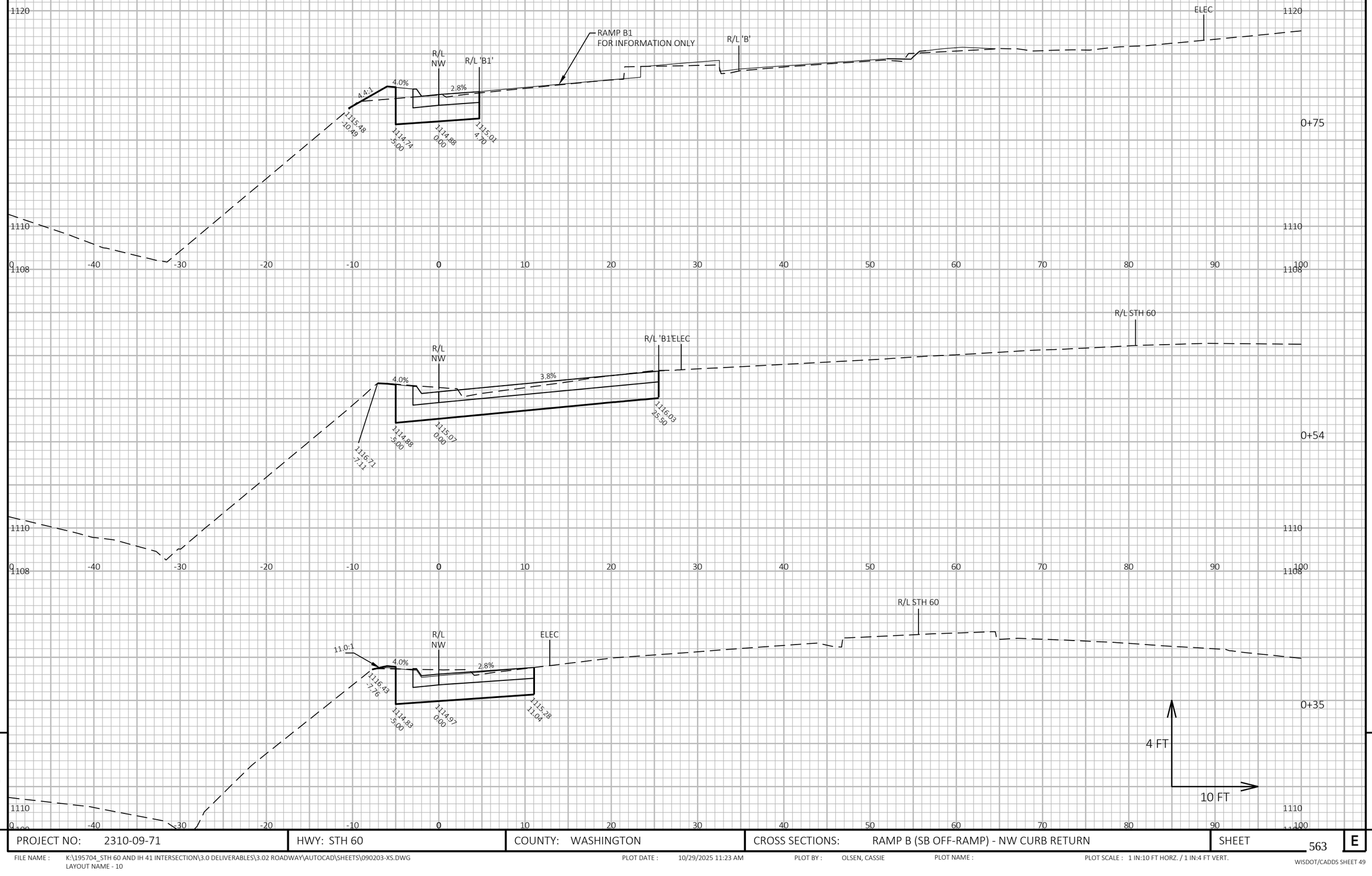
9

PROJECT NO: 2310-09-71	HWY: STH 60	COUNTY: WASHINGTON	CROSS SECTIONS: RAMP B (SB OFF-RAMP)	SHEET 562	E

FILE NAME : K:\195704_STH 60 AND IH 41 INTERSECTION\3.0 DELIVERABLES\3.02 ROADWAY\AUTOCAD\SHEETS\090203-XS.DWG
LAYOUT NAME - 06

PLOT DATE : 10/24/2025 4:09 PM PLOT BY : OLSEN, CASSIE PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

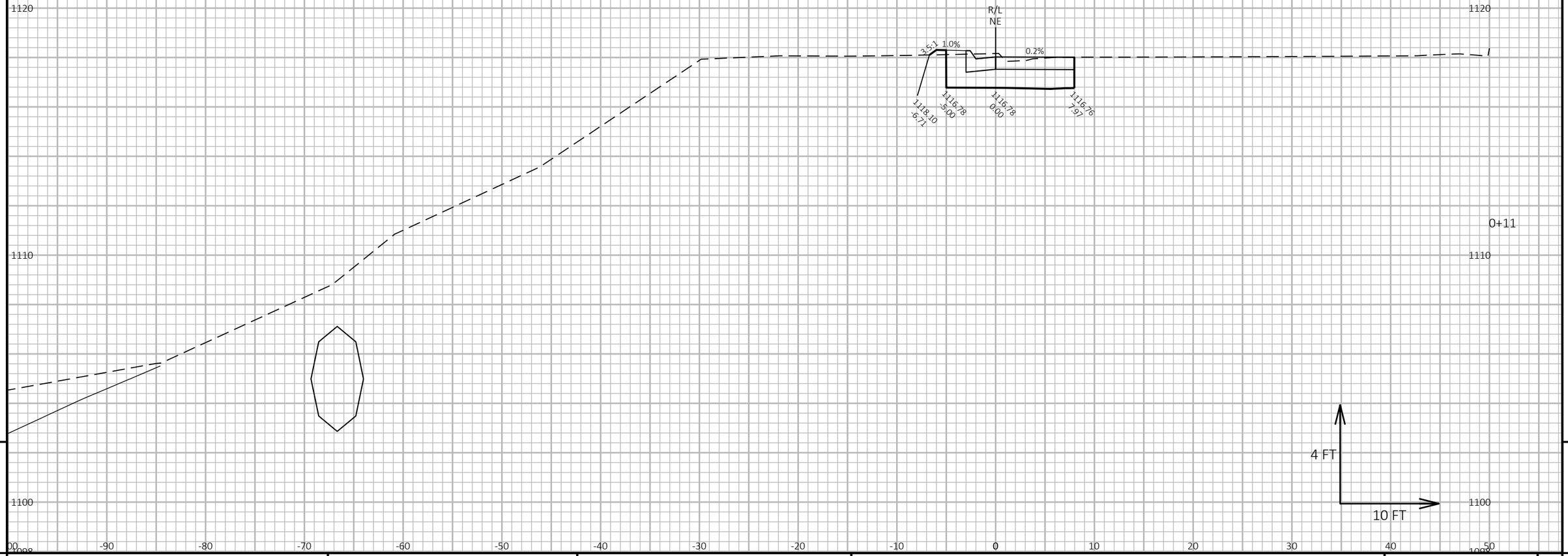
9

PROJECT NO: 2310-09-71	HWY: STH 60	COUNTY: WASHINGTON	CROSS SECTIONS: RAMP B (SB OFF-RAMP) - NW CURB RETURN	SHEET 563	E

FILE NAME : K:\195704_STH 60 AND IH 41 INTERSECTION\3.0 DELIVERABLES\3.02 ROADWAY\AUTOCAD\SHEETS\090203-XS.DWG
LAYOUT NAME - 10

PLOT DATE : 10/29/2025 11:23 AM PLOT BY : OLSEN, CASSIE PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:4 FT VERT.

WISDOT/CADDS SHEET 49



9

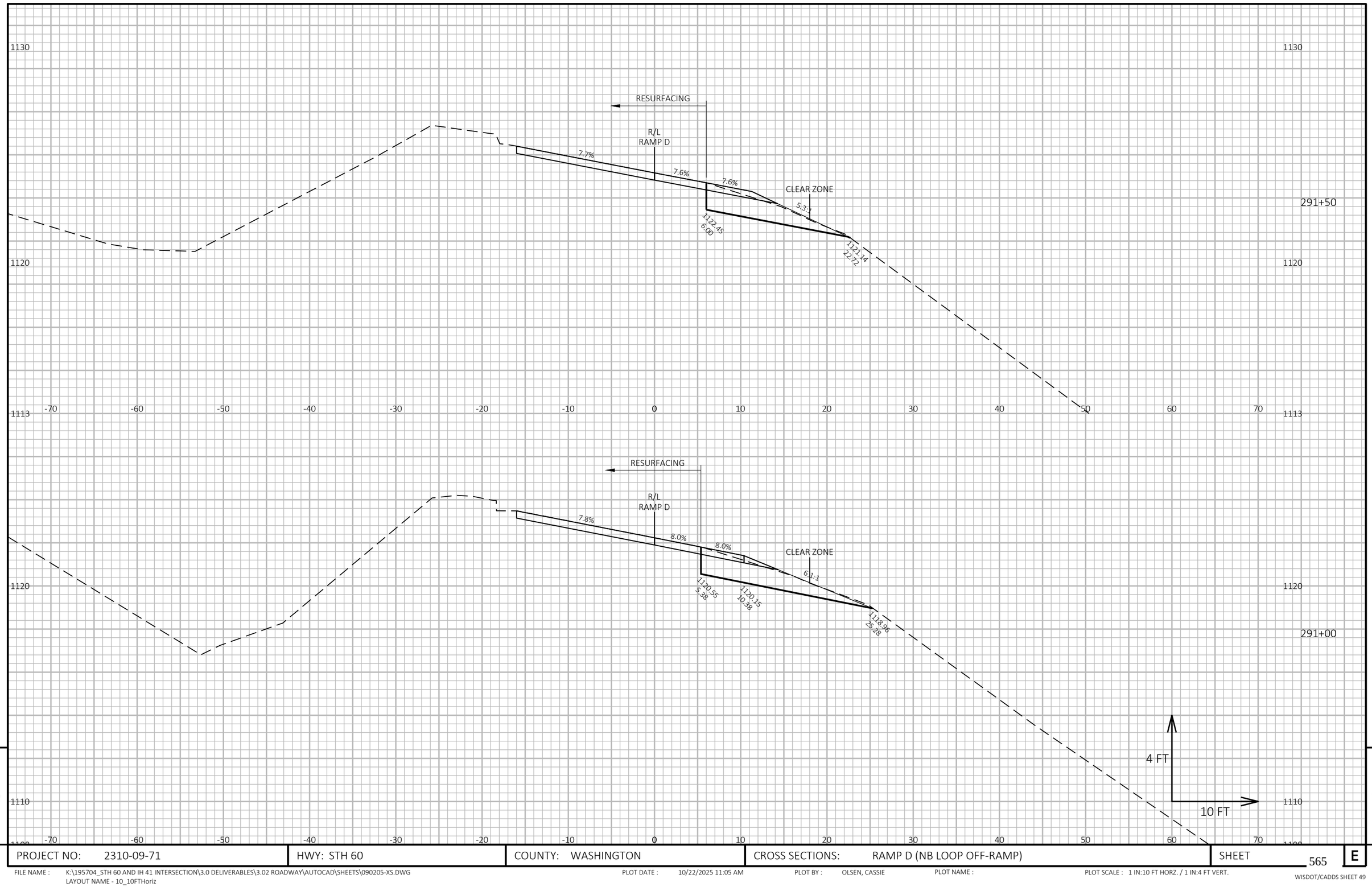
9

PROJECT NO: 2310-09-71	HWY: STH 60	COUNTY: WASHINGTON	CROSS SECTIONS: RAMP B (SB OFF-RAMP) - NE CURB RETURN	SHEET 564	E

FILE NAME : K:\195704_STH 60 AND IH 41 INTERSECTION\3.0 DELIVERABLES\3.02 ROADWAY\AUTOCAD\SHEETS\090203-XS.DWG
LAYOUT NAME - 20

PLOT DATE : 10/24/2025 4:09 PM PLOT BY : OLSEN, CASSIE PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:4 FT VERT.

WISDOT/CADDS SHEET 49



9

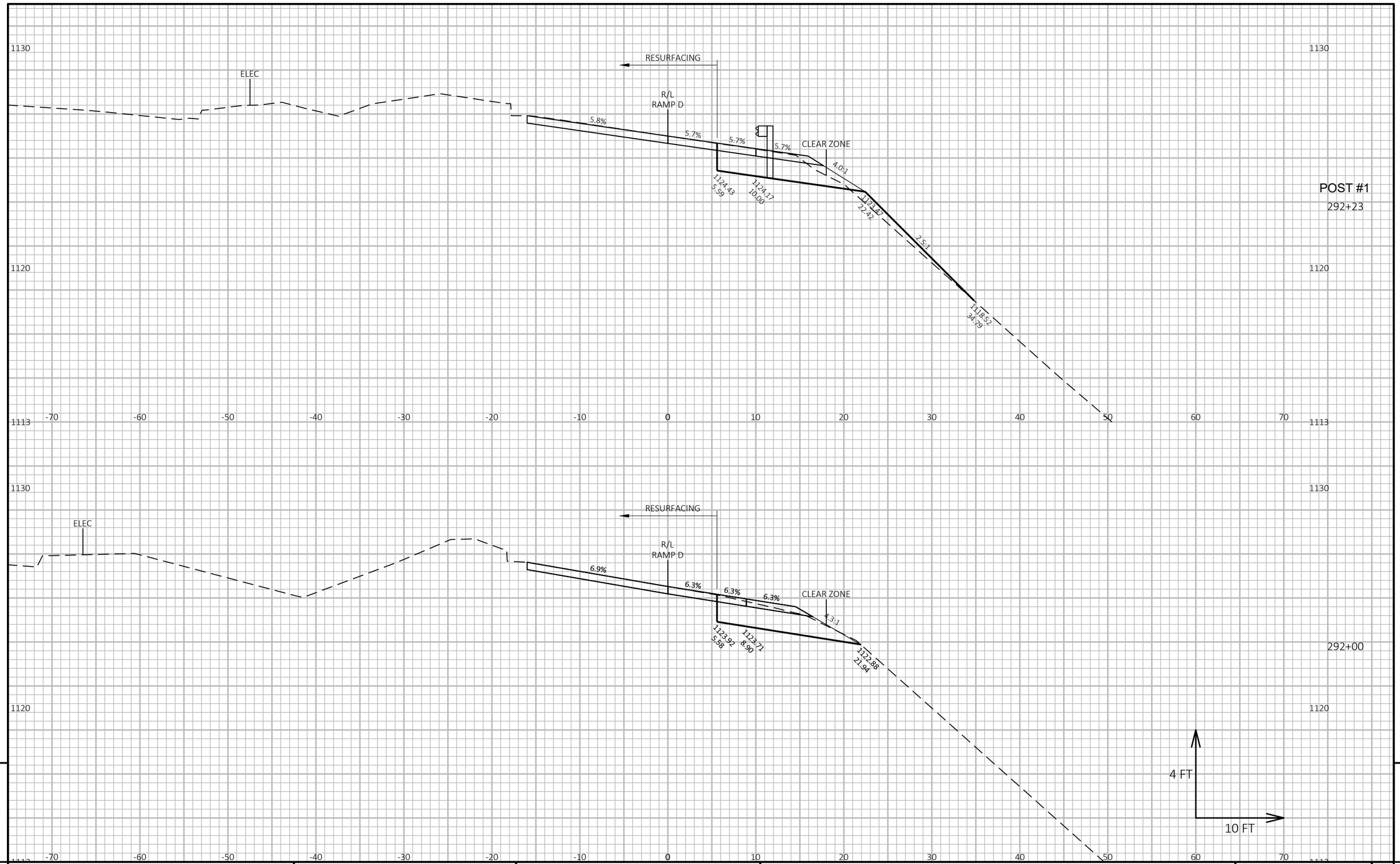
9

PROJECT NO: 2310-09-71	HWY: STH 60	COUNTY: WASHINGTON	CROSS SECTIONS: RAMP D (NB LOOP OFF-RAMP)	SHEET 565	E

FILE NAME : K:\195704_STH 60 AND IH 41 INTERSECTION\3.0 DELIVERABLES\3.02 ROADWAY\AUTOCAD\SHEETS\090205-XS.DWG
LAYOUT NAME - 10_10FTHoriz

PLOT DATE : 10/22/2025 11:05 AM PLOT BY : OLSEN, CASSIE PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:4 FT VERT.

WISDOT/CADDS SHEET 49

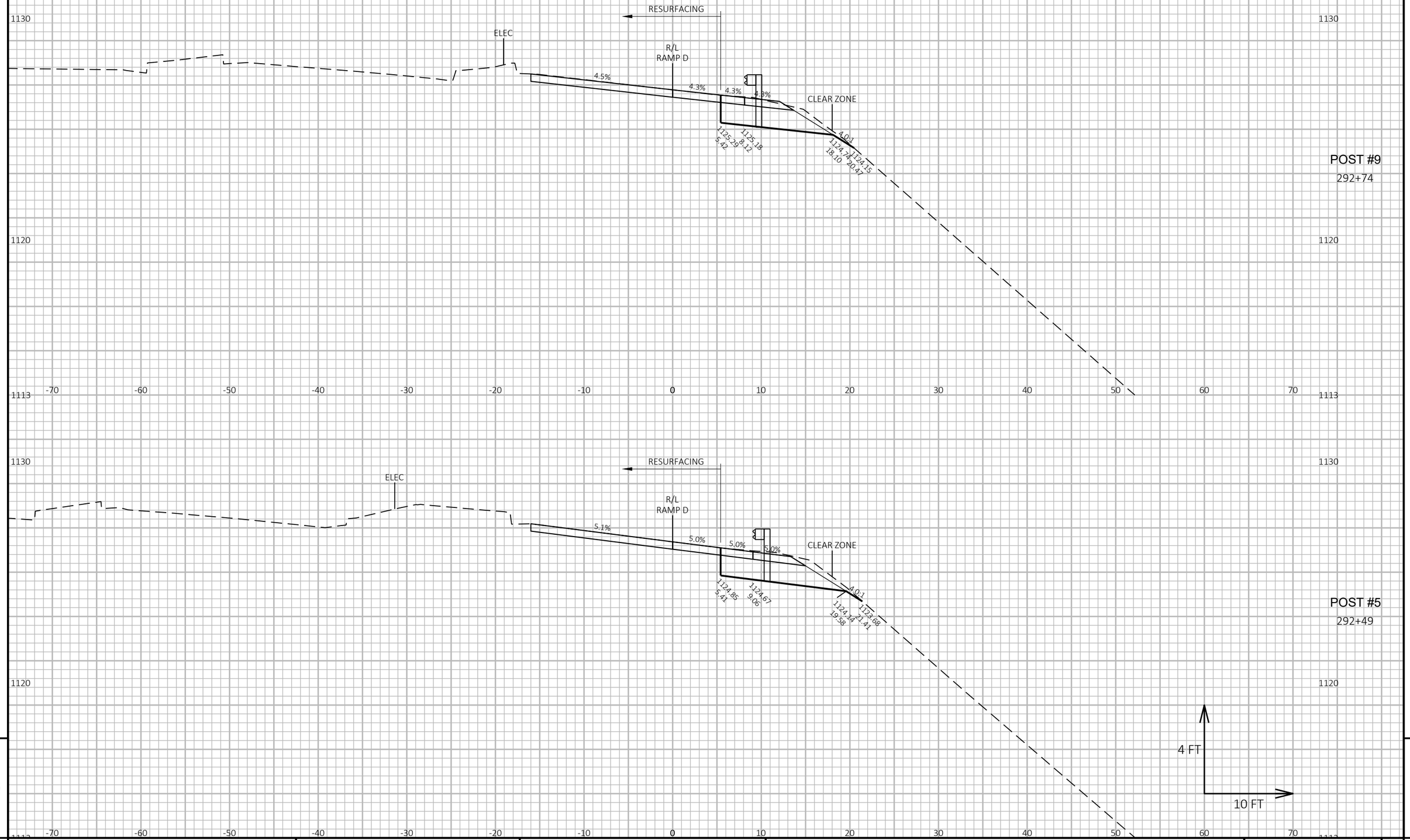


PROJECT NO: 2310-09-71	HWY: STH 60	COUNTY: WASHINGTON	CROSS SECTIONS: RAMP D (NB LOOP OFF-RAMP)	SHEET 566	E

FILE NAME : K:\195704_STH 60 AND IH 41 INTERSECTION\3.0 DELIVERABLES\3.02 ROADWAY\AUTOCAD\SHEETS\090205-XS.DWG
LAYOUT NAME - 11_10FTHoriz

PLOT DATE : 10/22/2025 11:05 AM PLOT BY : OLSEN, CASSIE PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:4 FT VERT.

WISDOT/CADDS SHEET 49



9

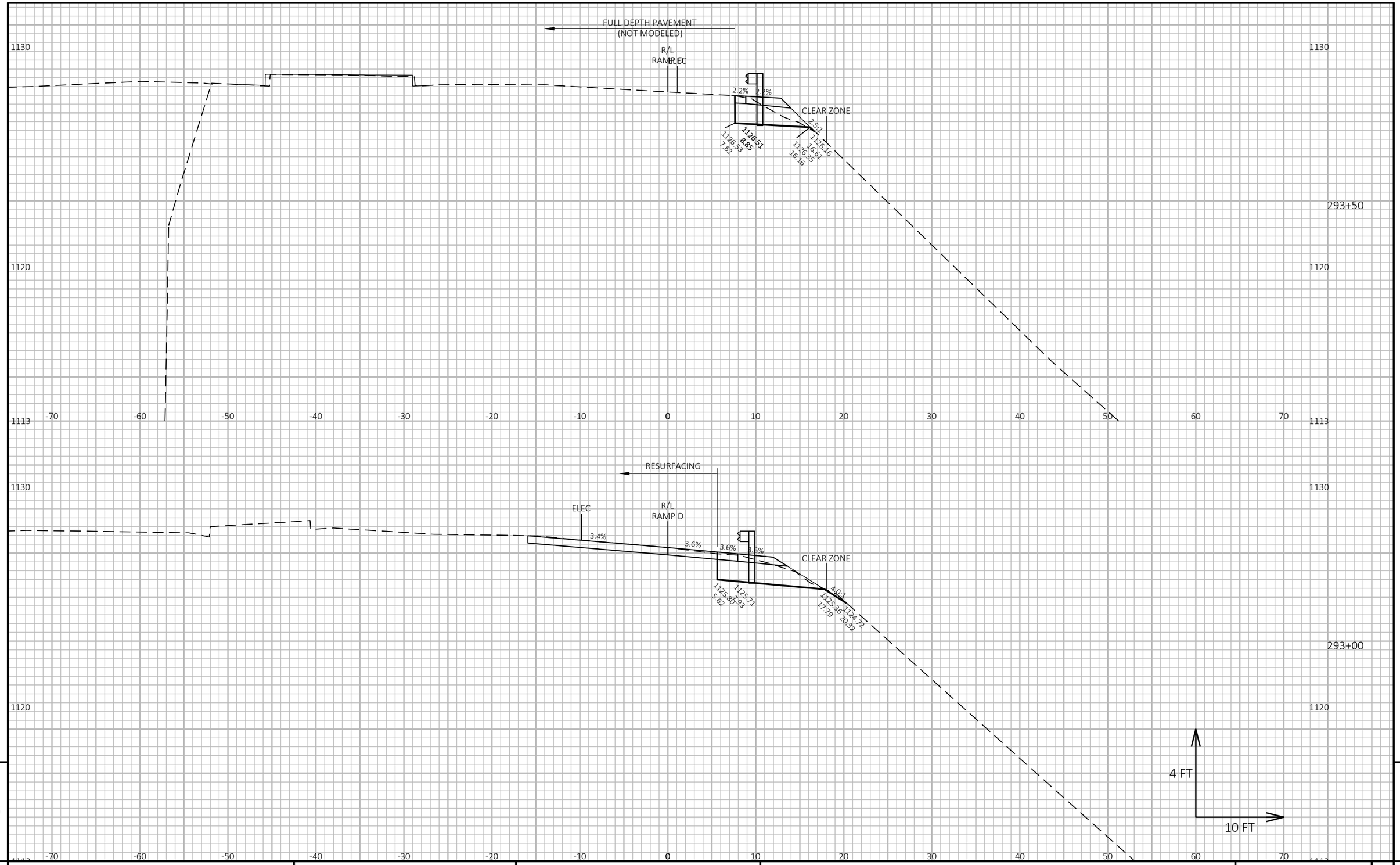
9

PROJECT NO: 2310-09-71	HWY: STH 60	COUNTY: WASHINGTON	CROSS SECTIONS: RAMP D (NB LOOP OFF-RAMP)	SHEET 567	E

FILE NAME : K:\195704_STH 60 AND IH 41 INTERSECTION\3.0 DELIVERABLES\3.02 ROADWAY\AUTOCAD\SHEETS\090205-XS.DWG
LAYOUT NAME - 12_10FTHoriz

PLOT DATE : 10/22/2025 11:05 AM PLOT BY : OLSEN, CASSIE PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:4 FT VERT.

WISDOT/CADDS SHEET 49



9

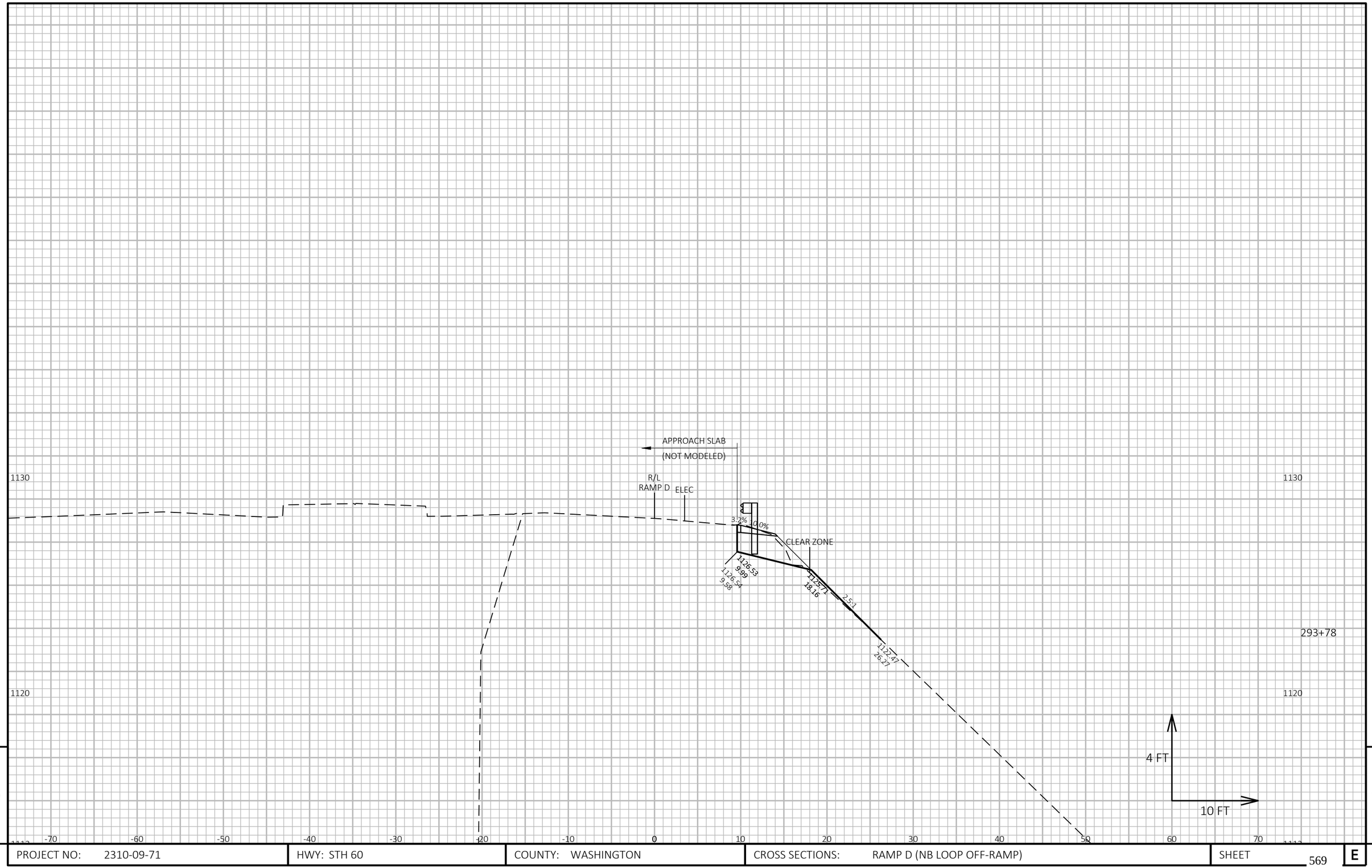
9

PROJECT NO: 2310-09-71	HWY: STH 60	COUNTY: WASHINGTON	CROSS SECTIONS: RAMP D (NB LOOP OFF-RAMP)	SHEET 568	E

FILE NAME : K:\195704_STH 60 AND IH 41 INTERSECTION\3.0 DELIVERABLES\3.02 ROADWAY\AUTOCAD\SHEETS\090205-XS.DWG
LAYOUT NAME - 13_10FTHoriz

PLOT DATE : 10/22/2025 11:05 AM PLOT BY : OLSEN, CASSIE PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:4 FT VERT.

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 2310-09-71	HWY: STH 60	COUNTY: WASHINGTON	CROSS SECTIONS: RAMP D (NB LOOP OFF-RAMP)	SHEET 569	E

FILE NAME : K:\195704_STH 60 AND IH 41 INTERSECTION\3.0 DELIVERABLES\3.02 ROADWAY\AUTOCAD\SHEETS\090205-XS.DWG
LAYOUT NAME - 14_10FTHoriz

PLOT DATE : 10/22/2025 11:05 AM PLOT BY : OLSEN, CASSIE PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:4 FT VERT.

WISDOT/CADDS SHEET 49

Wisconsin Department of Transportation

Dedicated people creating transportation solutions
through innovation and exceptional service.

http://www.dot.wisconsin.gov