WKE MARCH 2025

PROJECT ID: 2050-08-71

COUNTY: MILWAUKEE

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 = 452



STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

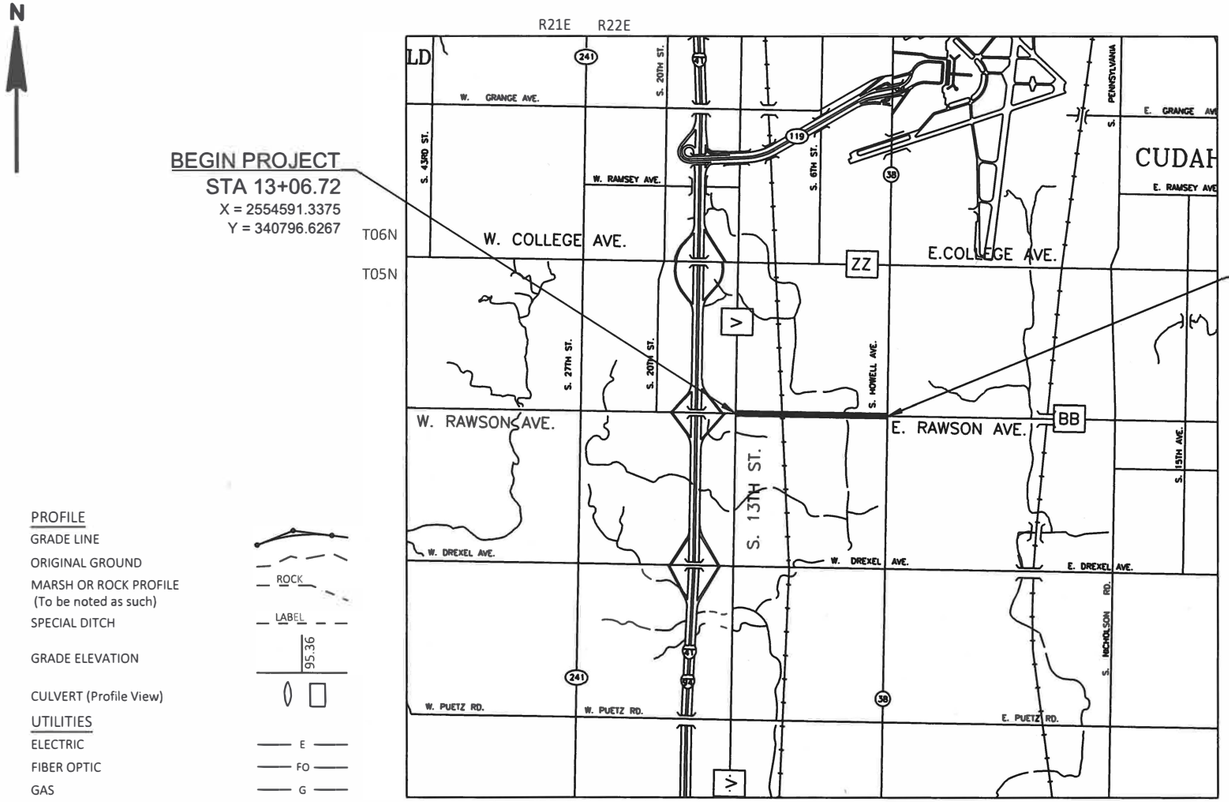
C OAK CREEK W RAWSON AVENUE

S 13TH STREET TO S HOWELL AVENUE

CTH BB
MILWAUKEE COUNTY

STATE PROJECT NUMBER
2050-08-71

STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
2050-08-71	WISC 2025370	1



LAYOUT

SCALE 0 1 MI

TOTAL NET LENGTH OF CENTERLINE = 0.92

HORIZONTAL POSITIONS SHOWN ON THIS PLAN ARE WISCONSIN STATE PLANE COORDINATES, SOUTH ZONE, NAD27, IN U.S. SURVEY FEET. POSITIONS SHOWN ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES.

ELEVATIONS ARE REFERENCED TO NAVD88 (1929). GPS DERIVED ELEVATIONS ARE BASED ON GEOID 12A.

DESIGN DESIGNATION 2050-08-01

A.A.D.T.	2021	=	19,900-24,700
A.A.D.T.	2045	=	25,300-31400
D.H.V.		=	1,103-1,207
D.D.		=	0.52
T.		=	13.5%
DESIGN SPEED		=	45 MPH
ESALS		=	9,800,000-11,000,000

CONVENTIONAL SYMBOLS

PLAN		PROFILE	
CORPORATE LIMITS		GRADE LINE	
PROPERTY LINE		ORIGINAL GROUND	
LOT LINE		MARSH OR ROCK PROFILE (To be noted as such)	ROCK
LIMITED HIGHWAY EASEMENT		SPECIAL DITCH	LABEL
EXISTING RIGHT OF WAY		GRADE ELEVATION	95.36
PROPOSED OR NEW R/W LINE		CULVERT (Profile View)	
SLOPE INTERCEPT		UTILITIES	
REFERENCE LINE	300'EB'	ELECTRIC	E
EXISTING CULVERT		FIBER OPTIC	FO
PROPOSED CULVERT (Box or Pipe)		GAS	G
COMBUSTIBLE FLUIDS	CAUTION	SANITARY SEWER	SAN
		STORM SEWER	SS
MARSH AREA		TELEPHONE	T
		WATER	W
		UTILITY PEDESTAL	
WOODED OR SHRUB AREA		POWER POLE	
		TELEPHONE POLE	

ORIGINAL PLANS PREPARED BY:

MILWAUKEE COUNTY
DEPARTMENT OF TRANSPORTATION

WISCONSIN
MARC E. HILLIARD
E-37872
MILWAUKEE, WIS.
PROFESSIONAL ENGINEER

PROJECT DESIGNER:
DATE: 10-17-24

RECOMMENDED FOR APPROVAL:
DATE: 10/15/2024
Director of Transportation Services

APPROVED:
DATE: 10/16/24
Director of Milwaukee County Department of Transportation

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PREPARED BY

Surveyor	MILWAUKEE COUNTY
Designer	MILWAUKEE COUNTY
Project Manager	MICHAEL BAIRD
Regional Examiner	REGIONAL EXAMINER
Regional Supervisor	AMY TAETSCH

APPROVED FOR THE DEPARTMENT

DATE: 10/18/2024
(Signature)

E

FILE NAME : \\W3027S02\DPPI$\DPW PROFESSIONAL\DATA\HIGHWAY OPERATIONS CONTROL FILE\CENTRAL FILES\2010-2014\CTH BB - W. RAWSON AVE\2050-08-01 S 13TH ST TO W HOWELL AVE\DESIGN PLANS\2050-08-01 Title.dgn 10/15/2024 12:54 PM PLOT BY : HILLIARD, MARC PLOT NAME :

GENERAL NOTES

REMOVALS
- DO NOT REMOVE TREES OR SHRUBS WITHOUT THE CONSENT OF THE ENGINEER.
- FILL ALL HOLES OR OPENINGS BELOW SUBGRADE RESULTING FROM ABANDONMENT OR REMOVAL OF EXISTING STRUCTURES WITH GRANULAR BACKFILL. GRANULAR BACKFILL IS INCIDENTAL TO THE PERTINENT REMOVAL ITEM.

EXCAVATION/GRADING
- EBS IS NOT USED TO BALANCE EARTHWORK AND IS NOT SHOWN ON THE CROSS SECTIONS. EBS IS MEASURED AND PAID FOR AS EXCAVATION COMMON. NEED, LOCATION, DEPTH AND BACKFILL MATERIAL FOR EBS WILL BE DETERMINED AND APPROVED BY THE ENGINEER.

UTILITIES
- 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.
- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE LOCATION OF EXISTING UTILITIES AND TO NOTIFY DIGGERS HOTLINE AND AFFECTED UTILITIES.

EROSION CONTROL
- EROSION CONTROL ITEMS SHOWN ARE AT SUGGESTED LOCATIONS AND THE EXACT LOCATIONS/DIMENSIONS WILL BE DETERMINED BY THE ENGINEER. MAINTAIN ALL EROSION CONTROL MEASURES UNTIL PERMANENT VEGETATION IS ESTABLISHED OR UNTIL THE ENGINEER DETERMINES THE MEASURE IS NO LONGER NECESSARY.
- TOPSOIL, SEED, FERTILIZE AND WATER OR SOD AND WATER DISTURBED AREAS WITHIN THE RIGHT OF WAY, EXCEPT THE AREAS WITHIN THE FINISHED SHOULDER POINTS AS DIRECTED BY THE ENGINEER.
- TOPSOIL SHOULD BE FREE OF DEBRIS SUCH AS LARGE ROOTS, STICKS, WEEDS, BRUSH, STONES, LITTER AND WASTE PRODUCTS IN ACCORDANCE WITH THE STANDARD SPECIFICATION. REMOVE ANY DEBRIS AND BREAKDOWN ALL CLODS AND LUMPS THAT WILL HINDER PLANT GROWTH OR ROOT ESTABLISHMENT. ENGINEER HAS THE AUTHORITY TO REJECT TOPSOIL NOT CONFORMING TO THE STANDARD SPECIFICATION.
- DO NOT APPLY FERTILIZER TO SATURATED SOILS, WETLANDS, SURFACE WATERS, FROZEN GROUND, OR IMPERVIOUS SURFACES.
- DO NOT APPLY FERTILIZER WITHIN 20 FEET OF A WATER BODY OR WETLAND OR WHEN A RUNOFF EVENT IS EXPECTED WITHIN 24 HOURS.

STORM SEWER/DRAINAGE
- PRIOR TO ORDERING PIPES & STRUCTURES, VERIFY DRAINAGE INFORMATION SHOWN IN THE PLANS AND PROVIDE DOCUMENTATION TO THE ENGINEER IN ACCORDANCE WITH THE SPECIFICATIONS.
- COST OF CONNECTING STORM SEWER, DRAINTILE, UNDERDRAIN OR CULVERT PIPE TO EXISTING STRUCTURES OR EXISTING PIPES IS INCIDENTAL TO THE COST OF THE PIPE.
- EXISTING ELEVATIONS OF STORM SEWER CONNECTIONS SHOWN ON THE PLANS ARE APPROXIMATE. FIELD ADJUSTMENTS MAY BE NECESSARY.
- UNCOVER AND CHECK ELEVATIONS OF EXISTING UTILITIES WHERE THEY CROSS PROPOSED STORM SEWER/CULVERT PIPES. ADJUSTMENT OF UTILITY OR REVISION OF SEWER/CULVERT ELEVATION MAY BE REQUIRED TO RESOLVE CONFLICT. THE COST OF UNCOVERING AND CHECKING UTILITIES IS NOT INCIDENTAL TO THE COST OF THE PIPE AND WILL BE PAID FOR UNDER THE “UTILITY LINE OPENING (ULO)” BID ITEM.

SIGNING/MARKING
- DO NOT REMOVE SIGNS WITHOUT THE CONSENT OF THE ENGINEER.
- SALVAGE ALL REMOVED SIGNS AND PLACE AT A SITE SPECIFIED BY THE ENGINEER TO BE PICKED UP BY MILWAUKEE COUNTY.

MISCELLANEOUS
- ADJUST TRAFFIC CONTROL DEVICES TO FIT FIELD CONDITIONS AS DIRECTED BY THE ENGINEER.
- CURB AND GUTTER JOINT SPACING SHALL MATCH THE CONCRETE PAVEMENT JOINTS UNLESS AUTHORIZED BY THE ENGINEER; SPACING FOR HMA PAVEMENT SHALL BE 10’.
- CONSTRUCT TRANSVERSE JOINTS IN THE CONCRETE SIDEWALK AT INTERVALS EQUAL TO THE WIDTH OF THE SIDEWALK UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
- MAINTAIN ACCESS TO ALL ADJACENT PROPERTIES WITHIN THE PROJECT LIMITS; NOTIFY PROPERTY OWNERS WHEN ACCESS WILL BE RESTRICTED AT LEAST 24 HOURS IN ADVANCE.
- ALL RADII SHOWN ON THE PLAN, WHERE CURB & GUTTER IS SHOWN, ARE MEASURED TO THE FLANGE UNLESS OTHERWISE NOTED.
- STAMP ALL ENDS OF MONOLITHIC CONCRETE SURFACES WITH A STAMP BEARING CONTRACTOR’S NAME AND YEAR OF CONSTRUCTION. ALL LETTERING SHALL BE 2-INCH. THE COST OF THIS WORK IS INCIDENTAL TO THE ASSOCIATED CONCRETE ITEM.
- PLACE TIE BARS (TWO IN THE FLANGE, ONE IN THE HEAD) IN THE CURB & GUTTER AT BOTH ENDS OF EACH REMOVAL & REPLACEMENT SECTION. COST WILL BE PAID FOR UNDER THE DRILLED TIE BAR ITEM.
- DETAILS OF CONSTRUCTION NOT SHOWN IN THE PLANS SHALL CONFORM TO THE PERTINENT STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.
- RESTORE EXISTING DRIVEWAYS IN-KIND BEHIND THE CONCRETE SIDEWALK. EXACT LOCATION AND WIDTH WILL BE DETERMINED BY THE ENGINEER DURING CONSTRUCTION.
- CONTACT THE ENGINEER AND THE SOUTHEASTERN REGIONAL PLANNING COMMISSION (SEWRPC) AT LEAST TWO WEEKS PRIOR TO WORK NEAR ANY PUBLIC SURVEY MONUMENT.

LIST OF STANDARD ABBREVIATIONS

ABUT	ABUTMENT
AEW	APRON ENDWALL
AGG	AGGREGATE
AH	AHEAD
ASPH	ASPHALT OR ASPHALTIC
BAD	BASE AGGREGATE DENSE
BK	BACK
BM	BENCHMARK
CABC	CRUSHED AGGREGATE BASE COURSE
CB	CATCH BASIN
C.E.	COMMERCIAL ENTRANCE
CL or C/L	CENTER LINE
CONC	CONCRETE
CTH	COUNTY TRUNK HIGHWAY
C&G	CURB AND GUTTER
DWY	DRIVEWAY
EL or ELEV	ELEVATION
EBS	EXCAVATION BELOW SUBGRADE
HMA	HOT MIX ASPHALT
INL	INLET
INV	INVERT
LT	LEFT
MH	MANHOLE
MIS	METROPOLITAN INTERCEPTOR SEWER
PAVT	PAVEMENT
P.E.	PRIVATE ENTRANCE
PLE	PERMANENT LIMITED EASEMENT
PT	POINT OF TANGENT
PCC	POINT OF COMPOUND CURVATURE
RL or R/L	REFERENCE LINE
R	RADIUS
REQD	REQUIRED
RT	RIGHT
R/W	RIGHT-OF-WAY
SE	SUPERELEVATION
SEC	SECTION
SDD	STANDARD DETAIL DRAWING
STH	STATE TRUNK HIGHWAY
STA	STATION
SSPRC	STORM SEWER PIPE REINFORCED CONCRETE
S/W	SIDEWALK
TLE	TEMPORARY LIMITED EASEMENT
VERT	VERTICAL
VC	VERTICAL CURVE
VCL	VERTICAL CURVE LENGTH
VPC	VERTICAL POINT OF CURVATURE
VPI	VERTICAL POINT OF INTERSECTION
VPT	VERTICAL POINT OF TANGENCY

2

UTILITIES

AT&T Local TCA
1000 Town Center, Suite 150
Southfield, MI 48075
Attn: Dale DeFever
Phone: (586) 242-2671

AT&T Wisconsin
411 7th Street
Racine, WI 53403
Attn: Nathan Gibert
Phone: (262) 720-8235
Email: ng952w@att.com

Charter Communications
1320 N. Dr. Martin Luther King Dr.
Milwaukee, WI 53212
Attn: Beau Abuya
Phone: (414) 908-1343
Email: wis.engineering@charter.com

City of Oak Creek Water & Sewer Utility
170 W. Drexel Avenue
Oak Creek, WI 53154
Attn: Brian Johnston
Phone: (414) 570-8200, ext. 24
Email: bjohnston@oakcreekwi.gov

Lumen
3235 Intertech Dr, Suite 600
Brookfield, WI 53045
Attn: Barhim Gaddour
Phone: (414) 908-1027
Mobile: (414) 704-1026

MCI/Verizon
15725 West Ryerson Road
New Berlin, WI 53151
Attn: RJ Cicatello
Phone: (262) 232-1323
Email: Randy.Cicatello@verizon.com

TDS Telecom
525 Junction Rd
Madison, WI 53717
Attn: Richard Trgovec
Phone: (920) 698-1590
Email: Richard.Trgovec@tdstelecom.com

UTILITIES (CONT'D)

We Energies - Electric
DAAR Engineering- WE Electric Designer
330 E. Kilbourn Avenue Tower 1, Suite 1149
Milwaukee, WI 53202
Attn: Michael Mlinar
Phone: (414) 587-7987
Email: michael,mlinar@we-energies.com

We Energies - Gas
500 S. 116th St
West Allis, WI 53214
Attn: Spenser Dooner
Phone: (262) 763-1083
Email: spenser.dooner@we-energies.com

STATE AGENCIES

Wisconsin Department of
Natural Resources
1027 W Saint Paul Ave
Milwaukee, WI 53233
Attn: Ryan Pappas
Phone: (414) 750-7495

Wisconsin Department of
Transportation
Traffic Signals
141 NW Barstow St.
P.O. Box 798
Waukesha, WI 53187
Attn: Jarrett Gates, PE
Phone: (262) 574-4237

Wisconsin Department of
Transportation
Electrical Field Unit
935 S. 60th Street
West Allis, WI 53214
Phone: (414) 266-1170

Wisconsin Department of
Transportation
Railroad Coordinator
141 NW Barstow St.
P.O. Box 798
Waukesha, WI 53187
Attn: Jason Kazmierski
Phone: (262) 548-6700
Email: Jason.Kazmierski@dot.wi.gov

AGENCIES

City of Oak Creek
City Engineer
8040 S. 6th Street
Oak Creek, WI 53154
Attn: Matt Sullivan
Phone: (414) 766-7000

City of Oak Creek Police Department
301 West Ryan Road
Oak Creek, WI 53154
Attn: Lieutenant Anthony McQuestion
Phone: (414) 766-7607

City of Oak Creek Police Department
301 West Ryan Road
Oak Creek, WI 53154
Attn: Sergeant Steve York
Phone: (414) 766-7639

Southeastern Wisconsin Regional
Planning Commission (SEWRPC)
Chief Surveyor
W239 N1812 Rockwood Dr.
PO Box 1607
Waukesha, WI 53187-1607
Attn: Rob Merry
Phone: (262) 953-4289

City of Oak Creek Street Lighting
8040 S. 6th Street
Oak Creek, WI 53154
Attn: Andrew Ledger
Phone: (414) 766-7029
Email: aledger@oakcreekwi.gov

Southeastern Wisconsin Regional
Planning Commission (SEWRPC)
Construction Coordinator
W239 N1812 Rockwood Dr.
PO Box 1607
Waukesha, WI 53187-1607
Attn: Andy Traeger
Phone: (262) 953-4296

RAILROAD

Canadian Pacific Railway
Canadian Pacific Plaza
120 South 6th Street, Suite 700
Minneapolis, MN 55402
Attn: Brian Osborne
Phone: (612) 330-4555

MILWAUKEE COUNTY

Milwaukee County Transit System
1942 N. 17th St.
Milwaukee, WI 53205
Attn: Armond Sensabaugh
Phone: (414) 343-1728
Email: asensabaugh@mcts.org

Milwaukee County DOT
Highway Maintenance Division
10190 W. Watertown Plank Rd.
Wauwatosa, WI 53226
Attn: Eduardo Santiago
Phone: (414) 257-4563
Email: eduardo.santiago@milwaukeecountywi.gov

Milwaukee County DOT
Transportation Services Division
10930 W. Lapham Street
West Allis, WI 53214
Attn: Andrea Weddle-Henning, PE
Phone: (414) 257-5934
Email: andrea.weddle-henning@milwaukeecountywi.gov

Milwaukee County DOT
Transportation Services Division
10930 W. Lapham Street
West Allis, WI 53214
Attn: Marc Hilliard, PE
Phone: (414) 257-5919
Email: marc.hilliard@milwaukeecountywi.gov

Milwaukee County DOT
Transportation Services Division
Traffic Engineering
10930 W. Lapham Street
West Allis, WI 53214
Attn: Daniel Murphy, PE
Phone: (414) 257-5942
Email: daniel.murphy@milwaukeecountywi.gov

SHEET INDEX

GENERAL NOTES
PROJECT OVERVIEW
TYPICAL SECTIONS
CONSTRUCTION DETAILS
PLAN DETAILS
PAVING GRADES
EROSION CONTROL
STORM SEWER
SIGNING & PAVEMENT MARKING
TRAFFIC SIGNALS
TRAFFIC SIGNAL REMOVALS
TEMPORARY SIGNALS
COMMUNICATIONS
STREET LIGHTING
TRAFFIC CONTROL
ALIGNMENT DIAGRAM
LAYOUT SURVEY CONTROL
MISCELLANEOUS QUANTITIES
PLAT
PLAN & PROFILES
SIGN PLATES
STRUCTURE B-40-389
STANDARD DETAILS
EARTHWORK DATA
CROSS SECTIONS

2

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

PROJECT NO: 2050-08-71	HWY: CTH BB	COUNTY: MILWAUKEE	GENERAL NOTES	SHEET 3	E

FILE NAME : PLOT DATE : PLOT BY : PLOT SCALE : 1:1

2

2

S. 13TH STREET (CTH V)

BP: 7+34.39

PI: 10+09.95

CITY OF OAK CREEK

S. 10TH STREET

PI: 16+55.07

PI: 29+06.18

PI: 32+81.23

N

R/W

TLE

PROP R/W

PGL W RAWSON AVE WB

B-40-385 (EXISTING)

10WB 10

15WB 15

20WB 20

25WB 25

30WB 30

35WB 35

W. RAWSON AVENUE (CTH BB)

MATCH LINE STA 36+00

BEGIN CONSTRUCTION STA 9+34.40

BEGIN PROJECT 2050-08-71 STA 13+06.72

R/L W RAWSON AVE

CANADIAN PACIFIC RAILWAY

CITY OF OAK CREEK

OAK CREEK FIRE DEPARTMENT

S. 6TH STREET

OAK CREEK VETERANS MEMORIAL PARK

PI: 42+89.57

PI: 63+37.35

EP: 65+85.21

S. HOWELL AVENUE (STH 38)

40WB 40

45WB 45

50WB 50

55WB 55

60WB 60

65WB 65

E. RAWSON AVE (CTH BB)

NORTH BRANCH OAK CREEK

B-40-389 (EXISTING)

S. 1ST STREET

END PROJECT 2050-08-71 STA 61+38.66

END CONSTRUCTION STA 62+55.60

PROJECT NO: 2050-08-71	HWY: CTH BB	COUNTY: MILWAUKEE	PROJECT OVERVIEW	SHEET 4	E

FILE NAME : \\W3027S02\DPPI$\DPW PROFESSIONAL\DATA\HIGHWAY OPERATIONS CONTROL FILE\CENTRAL FILES\2010-2014\CTH BB - W. RAWSON AVE\2050-08-01 S 13TH ST TO W HOWELL AVE\DESIGN\PLANS\2050080102.DGN
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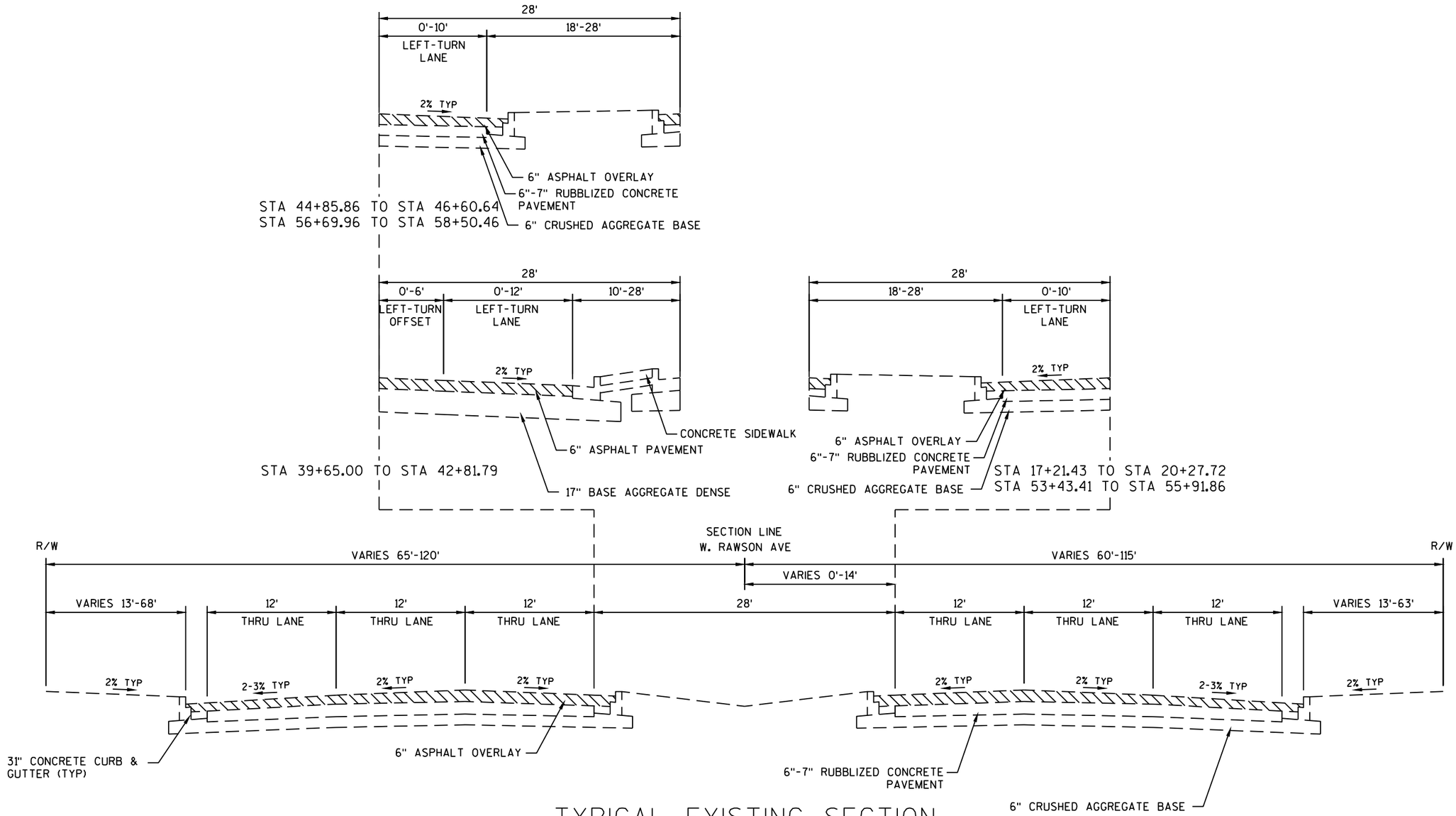
PLOT BY : HILLIARD, MARC

PLOT NAME :

PLOT SCALE : 1 IN:200 FT

WISDOT/CADDS SHEET 44

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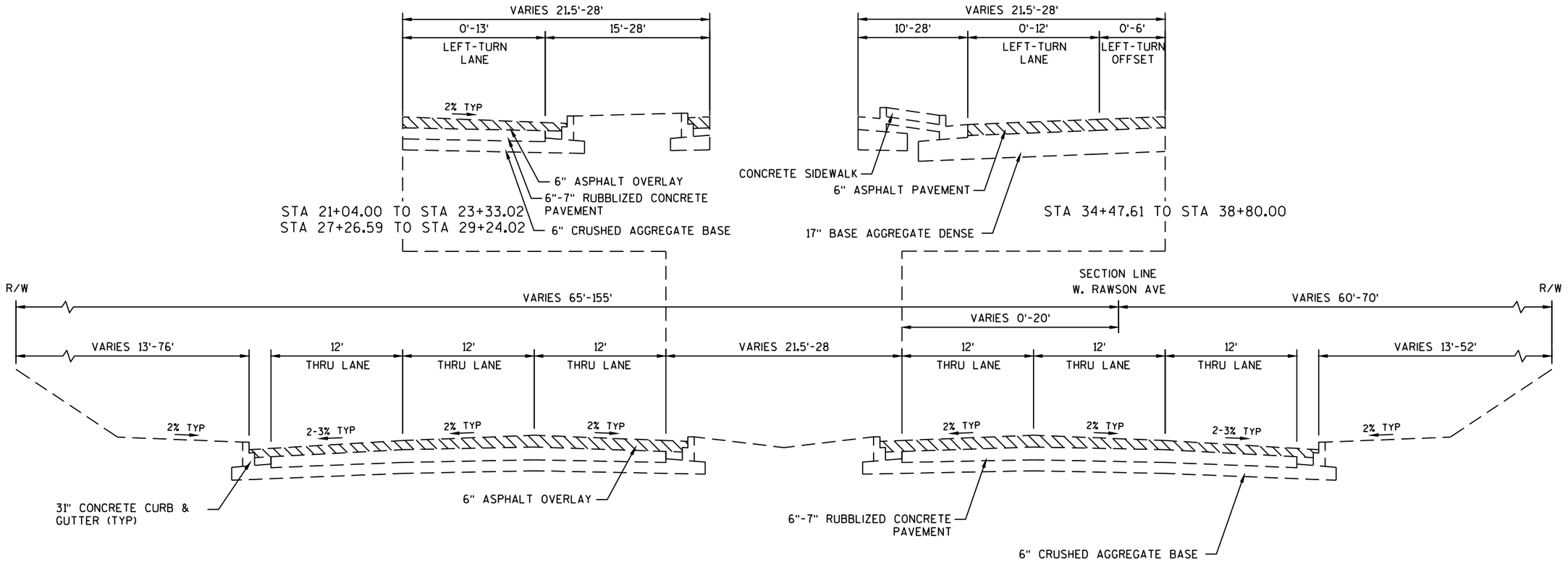


TYPICAL EXISTING SECTION
W. RAWSON AVENUE

STA 13+06.72 TO STA 21+58.09
STA 38+97.98 TO STA 59+84.06

PROJECT NO: 2050-08-71	HWY: CTH BB	COUNTY: MILWAUKEE	TYPICAL SECTIONS	SHEET 5	E

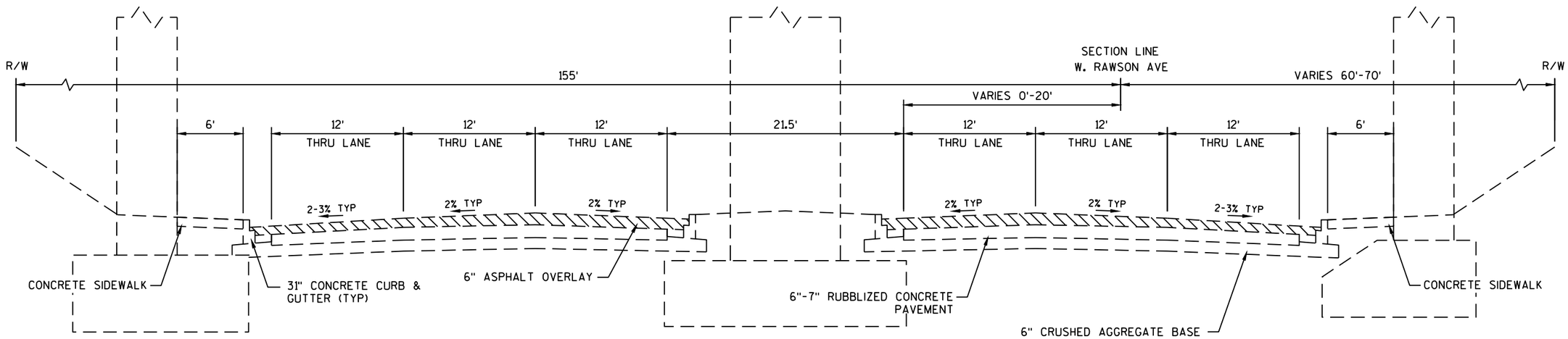
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TYPICAL EXISTING SECTION
W. RAWSON AVENUE

STA 21+58.09 TO STA 29+82.94
STA 31+71.07 TO STA 38+97.98

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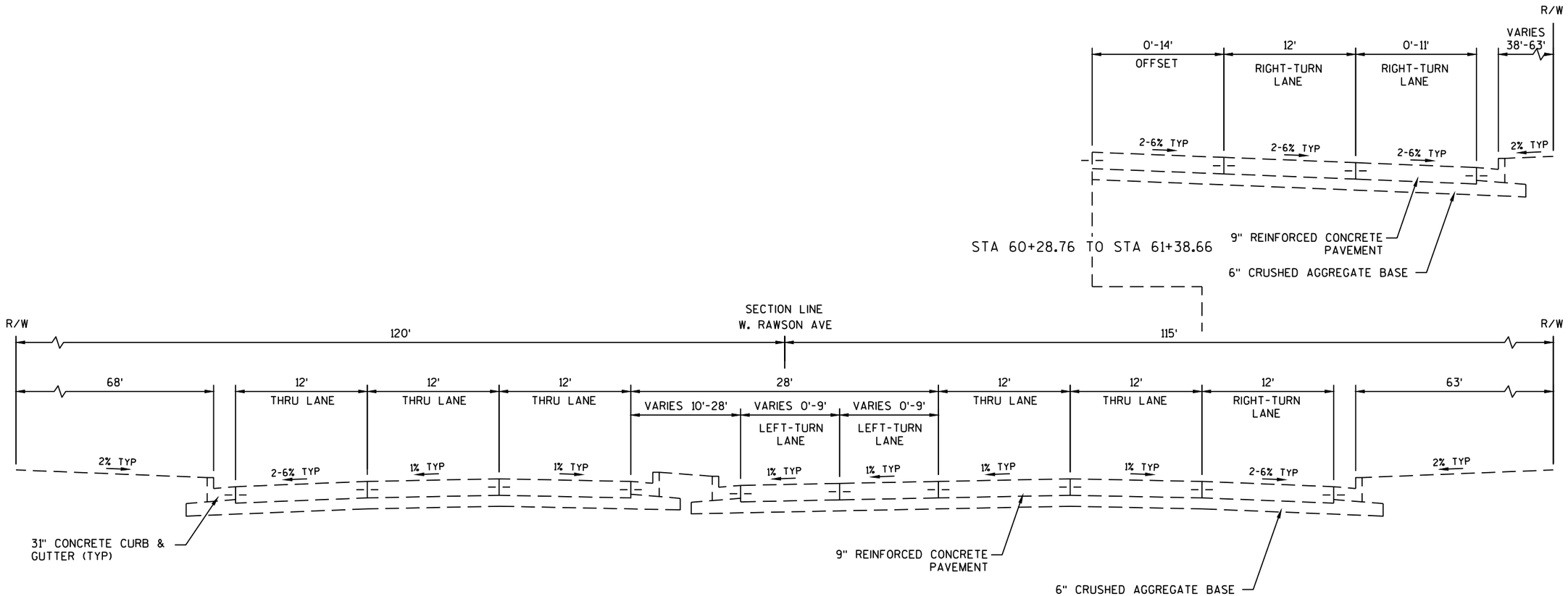
TYPICAL EXISTING SECTION
W. RAWSON AVENUE

STA 29+82.94 TO STA 31+71.07
(UNDERPASS AT B-40-385)

PROJECT NO: 2050-08-71	HWY: CTH BB	COUNTY: MILWAUKEE	TYPICAL SECTIONS	SHEET 7	E

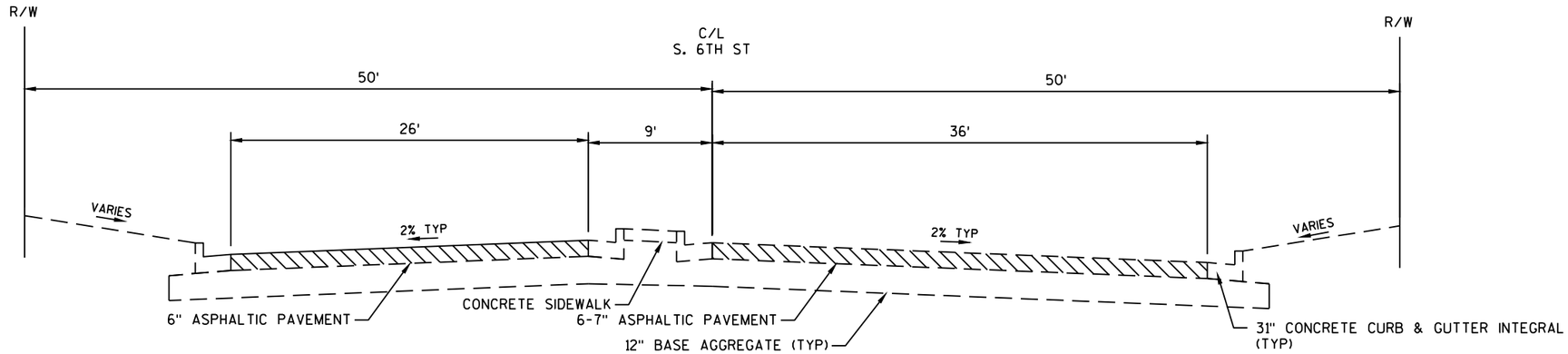
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PLOT NAME :
PLOT SCALE : 1 IN:10 FT
WISDOT/CADDS SHEET 42

2

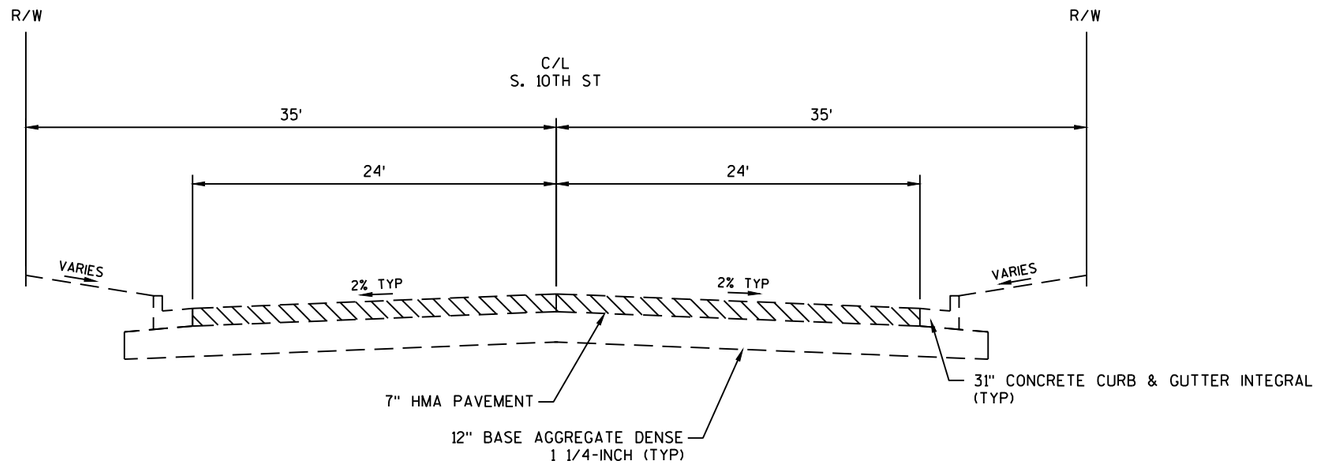


TYPICAL EXISTING SECTION
W. RAWSON AVENUE

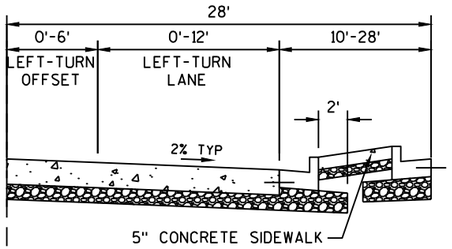
STA 59+84.06 TO STA 61+38.66



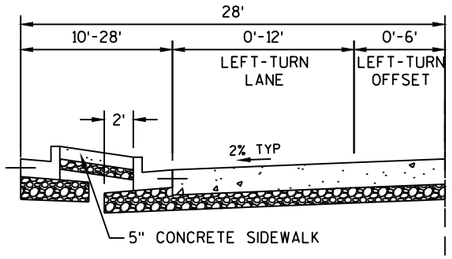
TYPICAL EXISTING SECTION
S. 6TH STREET
(SOUTH APPROACH)



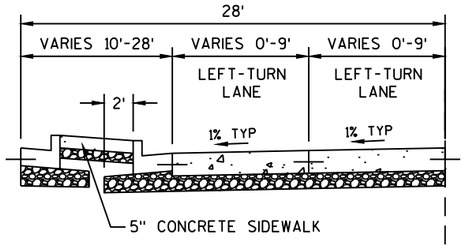
TYPICAL EXISTING SECTION
S. 10TH STREET
(SOUTH APPROACH)



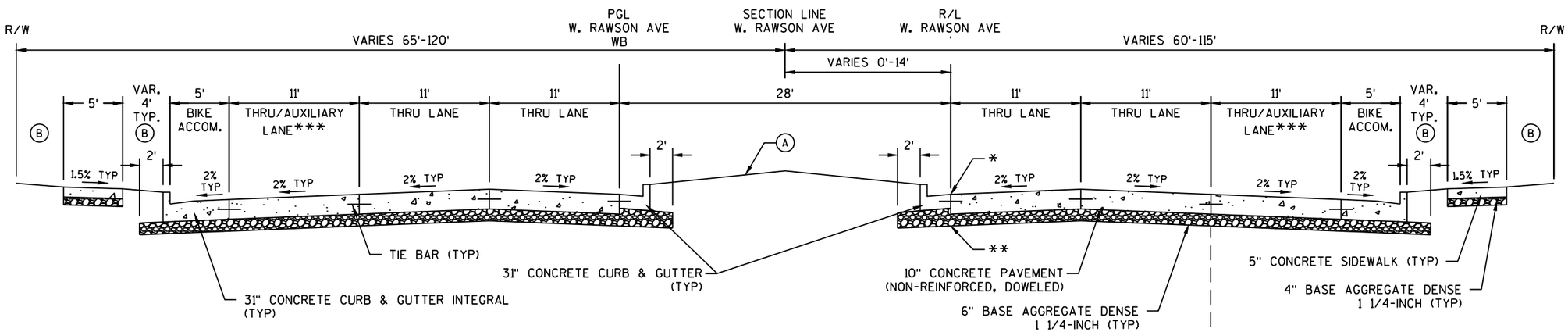
STA 16+20.00 TO STA 17+25.00
STA 21+30.00 TO STA 25+75.00
STA 40+00.00 TO STA 43+75.00
STA 44+90.00 TO STA 46+80.00
STA 48+90.00 TO STA 50+20.00
STA 56+85.00 TO STA 59+10.00



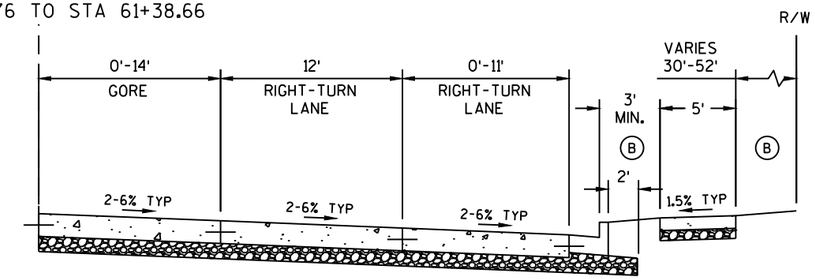
STA 13+06.72 TO STA 13+40.00
STA 14+53.00 TO STA 15+75.00
STA 16+55.00 TO STA 19+90.00
STA 42+75.00 TO STA 44+05.00
STA 47+25.00 TO STA 48+55.00
STA 53+45.00 TO STA 55+75.00



STA 59+75.57 TO STA 61+38.66



STA 60+28.76 TO STA 61+38.66



TYPICAL FINISHED SECTION
W. RAWSON AVENUE

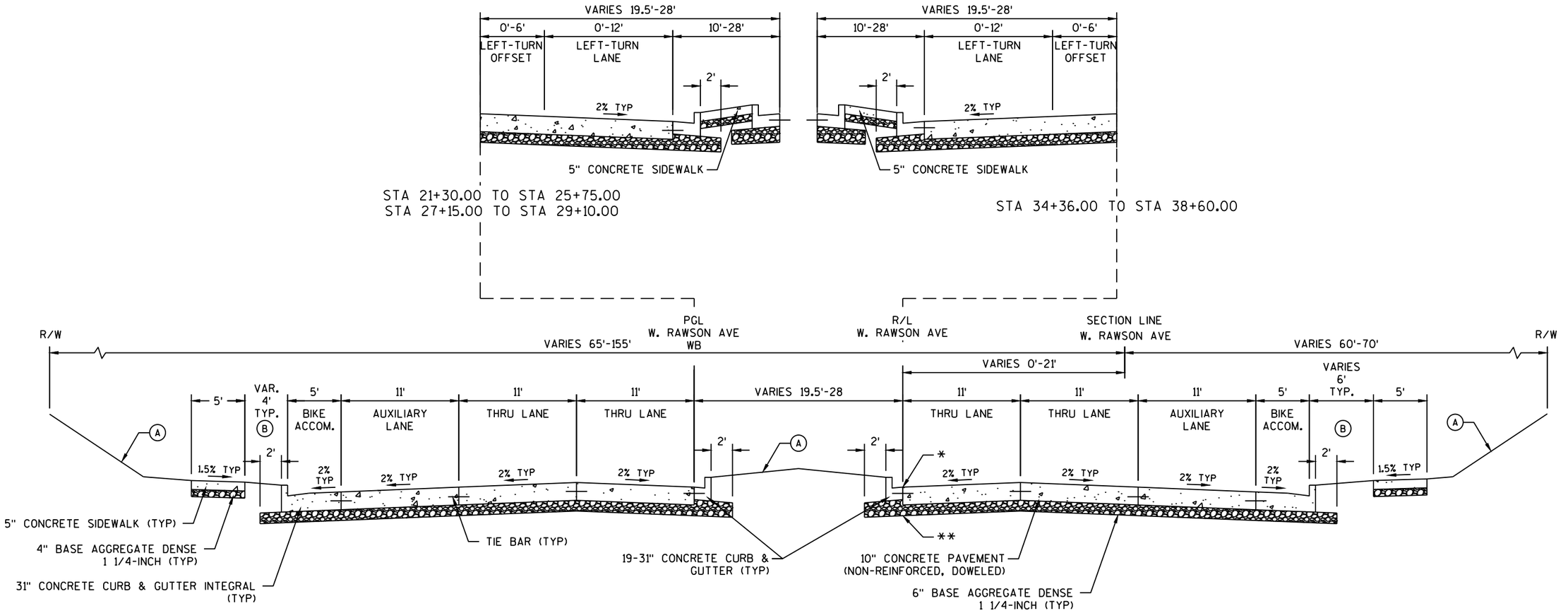
STA 13+06.72 TO STA 21+58.09
STA 38+97.98 TO STA 61+38.66

* POINT REFERRED TO ON PROFILE
** POINT REFERRED TO ON CROSS SECTIONS
*** THRU LANE STA 13+06.72 TO STA 21+58.09, AUXILIARY LANE STA 38+97.98 TO STA 61+38.66

(A) 6" TOPSOIL, SEED, FERTILIZER, EROSION MAT
(B) 6" TOPSOIL, SOD

PROJECT NO: 2050-08-71	HWY: CTH BB	COUNTY: MILWAUKEE	TYPICAL SECTIONS	SHEET 10	E

2



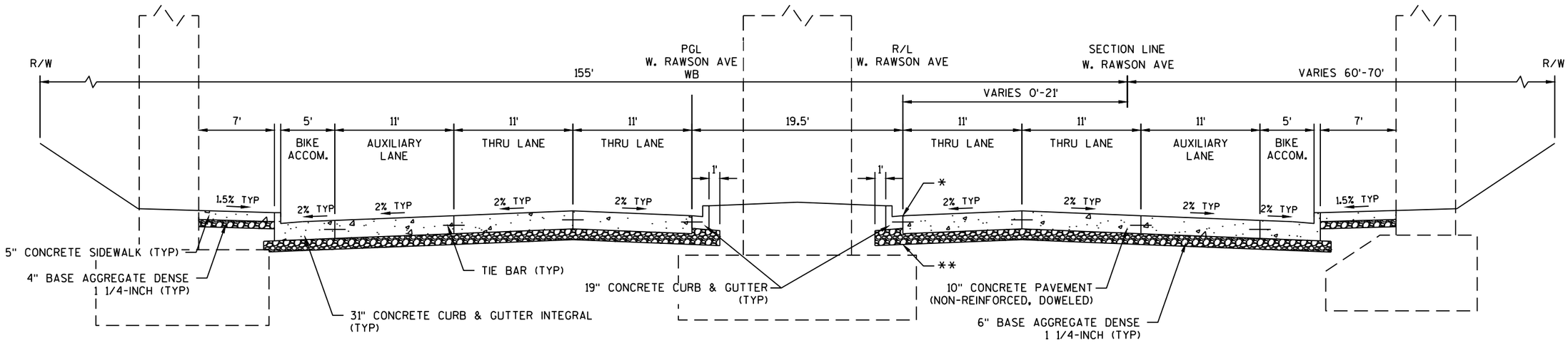
TYPICAL FINISHED SECTION
W. RAWSON AVENUE

STA 21+58.09 TO STA 29+82.94
STA 31+71.07 TO STA 38+97.98

* POINT REFERRED TO ON PROFILE
** POINT REFERRED TO ON CROSS SECTIONS

(A) 6" TOPSOIL, SEED, FERTILIZER, EROSION MAT
(B) 6" TOPSOIL, SOD

2



TYPICAL FINISHED SECTION
W. RAWSON AVENUE

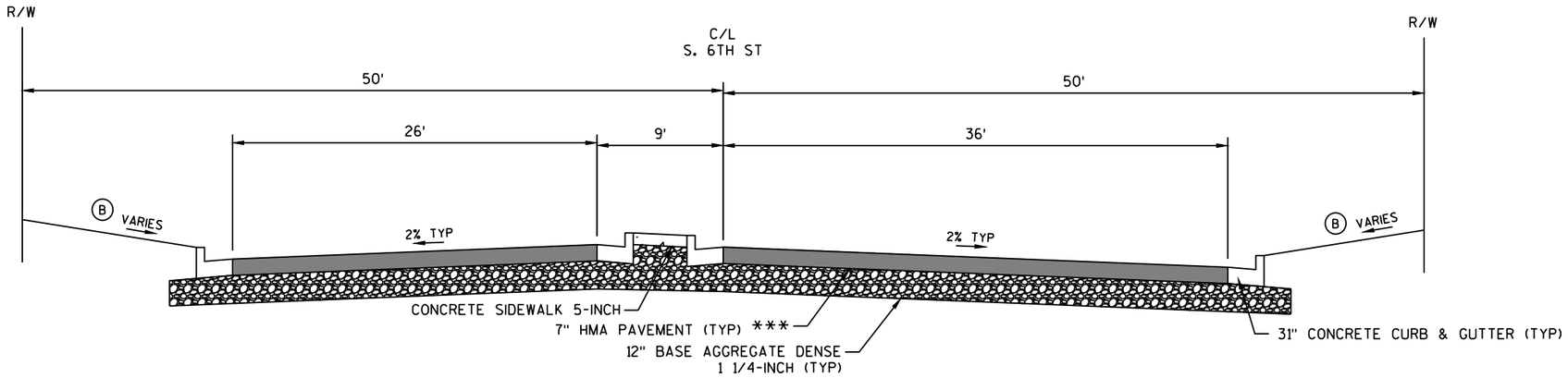
STA 29+82.94 TO STA 31+71.07
(UNDERPASS AT B-40-385)

* POINT REFERRED TO ON PROFILE
** POINT REFERRED TO ON CROSS SECTIONS

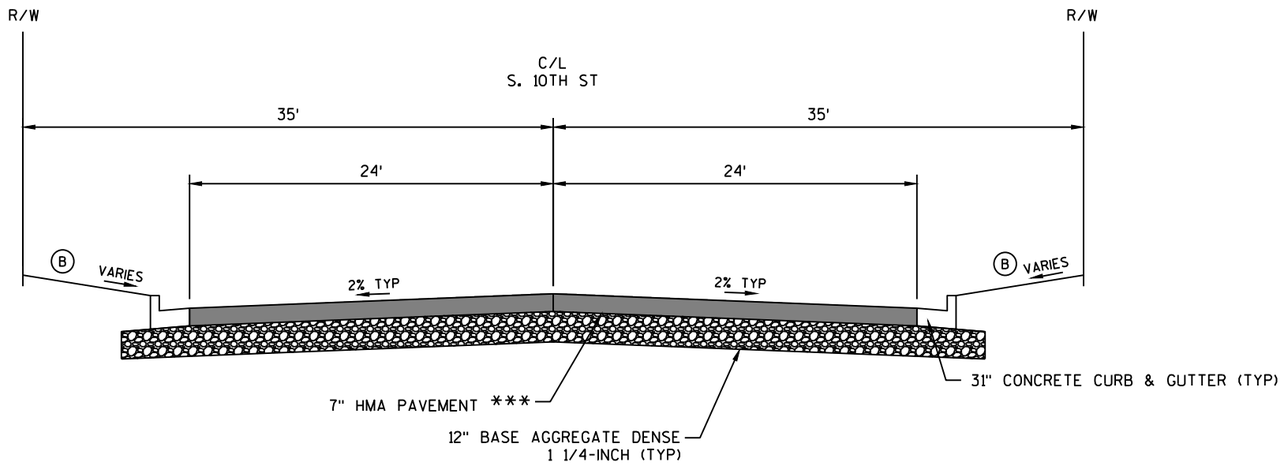
(A) 6" TOPSOIL, SEED, FERTILIZER, EROSION MAT
(B) 6" TOPSOIL, SOD

PROJECT NO: 2050-08-71	HWY: CTH BB	COUNTY: MILWAUKEE	TYPICAL SECTIONS	SHEET 12	E

FILE NAME : O:\HIGHWAY OPERATIONS CONTROL FILE\CENTRAL FILES\2010-2014\CTH BB - W. RAWSON AVE\2050-08-01 S 13TH ST TO W HOWELL AVE\DESIGN\PLANS\20500801_TS.DWG
LAYOUT NAME - 08
PLOT DATE : 7/1/2024 8:57 PM
PLOT BY : MASTERS, ANDREA
PLOT NAME :
PLOT SCALE : 1 IN:10 FT
WISDOT/CADDS SHEET 42



TYPICAL FINISHED SECTION
S. 6TH STREET
(SOUTH APPROACH)



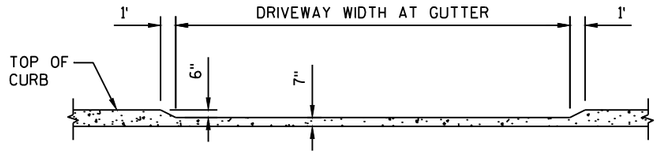
TYPICAL FINISHED SECTION
S. 10TH STREET
(SOUTH APPROACH)

(A) 6" TOPSOIL, SEED, FERTILIZER, EROSION MAT

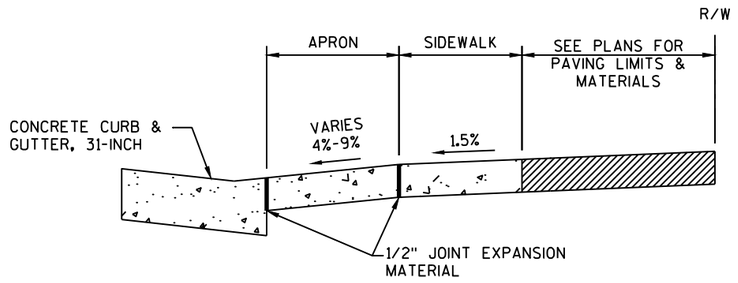
(B) 6" TOPSOIL, SOD

*** 2" HMA PAVEMENT 4MT 58-28 S
2.5" HMA PAVEMENT 4MT 58-28 S
2.5" HMA PAVEMENT 4MT 58-28 S

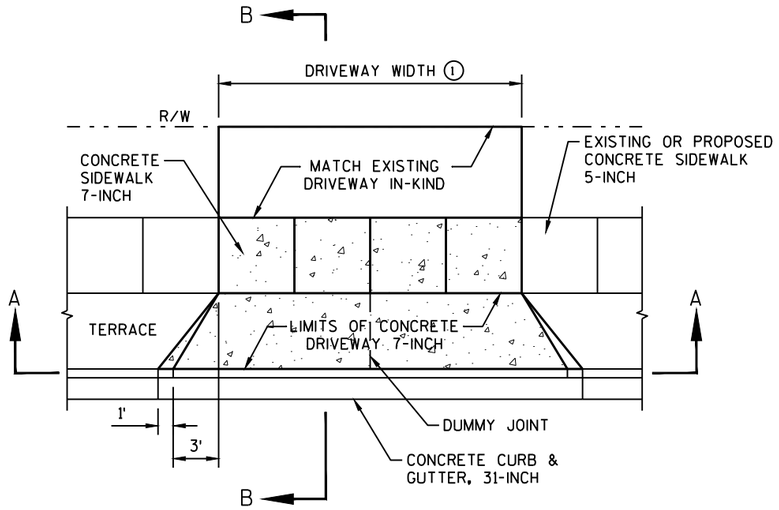
PROJECT NO: 2050-08-71	HWY: CTH BB	COUNTY: MILWAUKEE	TYPICAL SECTIONS	SHEET 13	E



SECTION A-A

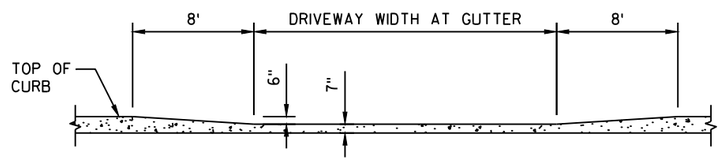


SECTION B-B

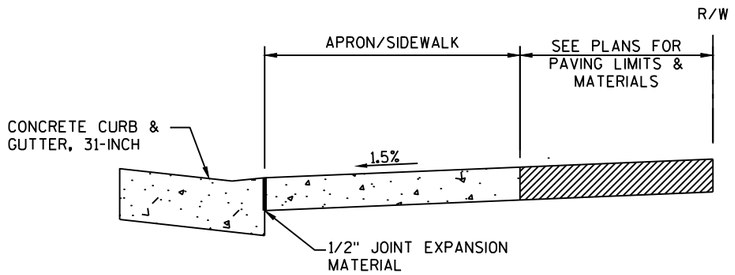


PLAN VIEW

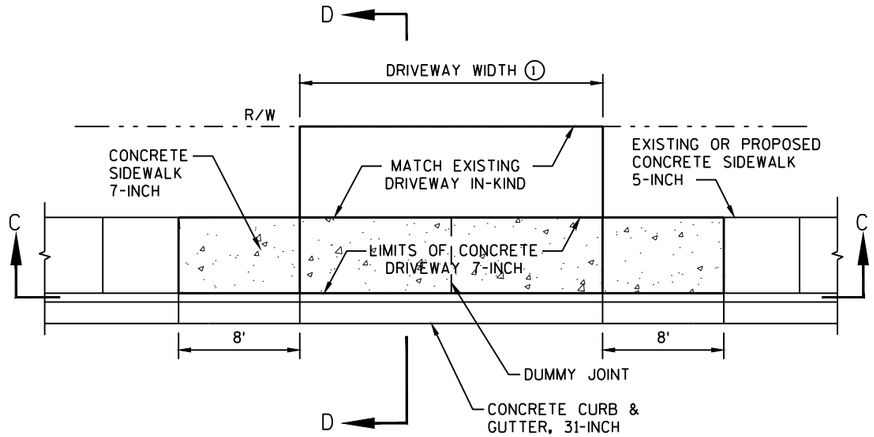
DRIVEWAY WITH SIDEWALK/TERRACE



SECTION C-C



SECTION D-D



PLAN VIEW

DRIVEWAY WITHOUT TERRACE

DRIVEWAY NOTES:

(1) RESIDENTIAL WIDTH: 10' MIN. / 24' MAX.

COMMERCIAL WIDTH: 12' MIN / 35' MAX.

CONCRETE DRIVEWAYS:
CONCRETE DRIVEWAY 7-INCH ON 4" BASE AGGREGATE DENSE 1-¼"

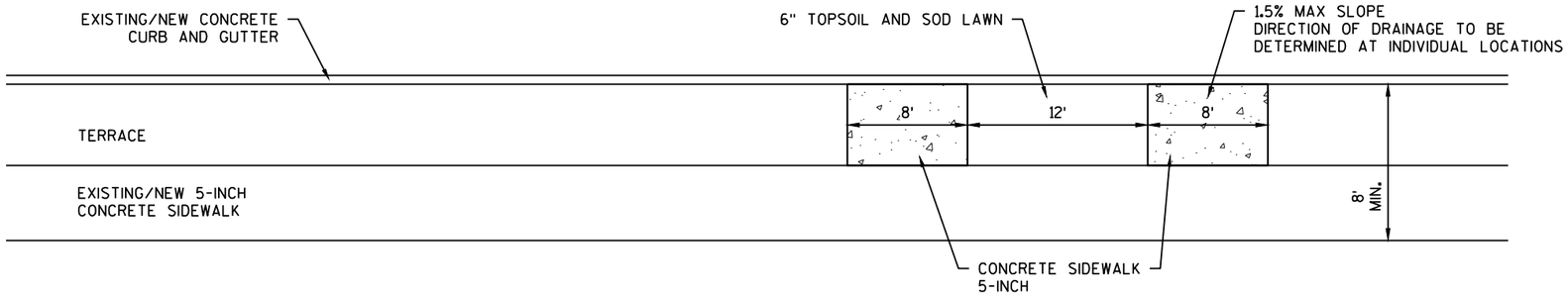
ASPHALT DRIVEWAYS:
4" ASPHALTIC SURFACE DRIVEWAYS

	NOMINAL SIZE	MSCR	THICKNESS
UPPER LAYER	9.5mm	58-28S	2.0 in
LOWER LAYER	9.5mm	58-28S	2.0 in
BASE AGG. DENSE	1-¼"	N/A	4.0 in

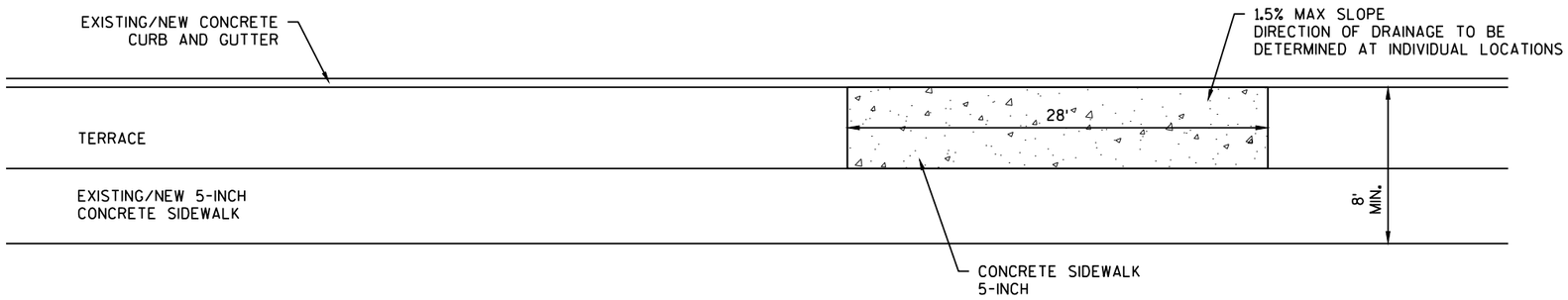
GRAVEL DRIVEWAYS:
6" BASE AGGREGATE DENSE 3/4"

ALL DRIVEWAY APRONS ARE CONCRETE UNLESS NOTED OTHERWISE IN THE PLANS. PLACE DUMMY JOINT AT CENTER OF DRIVEWAY APRON 14' WIDE OR GREATER OR AT ALL JOINTS IN THE CURB & GUTTER IF NO JOINTS EXIST, OTHERWISE MATCH EXISTING JOINTS.

2

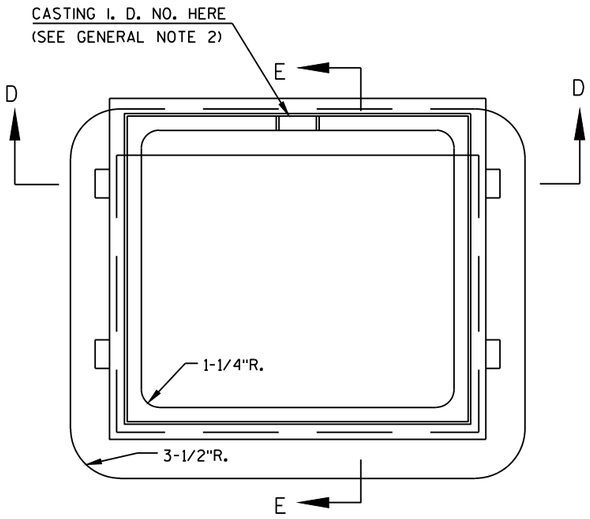


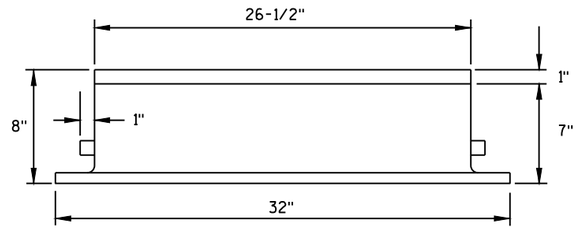
TYPICAL DETAIL OF SPLIT WALK BUS STOP



TYPICAL DETAIL OF FULL WALK BUS STOP

PROJECT NO: 2050-08-71	HWY: CTH BB	COUNTY: MILWAUKEE	CONSTRUCTION DETAILS	SHEET 15	E





FRAME

GENERAL NOTES

ALL EDGES ARE TO BE GROUND

ALL CASTINGS SHALL BEAR THE FOLLOWING IDENTIFICATION MARKS IN THE FORM OF LEGIBLE LETTERS OR NUMERALS RAISED 1/8"

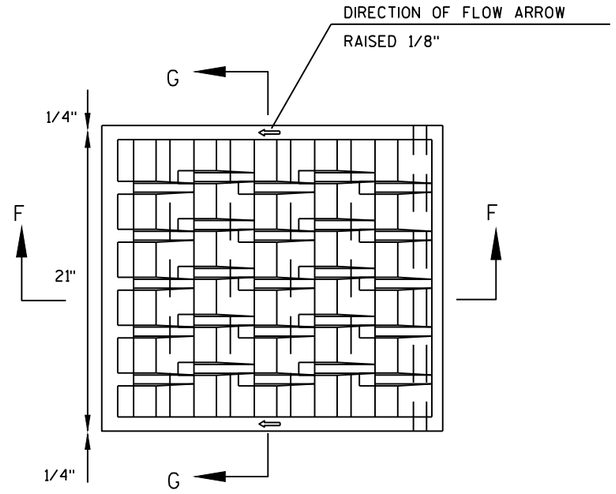
ON THE FRAME

1. ON THE UPPER FACE OF THE FLANGE IN 1 INCH HIGH LETTERS THE INITIALS OR MONOGRAM OF THE FOUNDRY, THE YEAR MADE AND THE SERIAL NUMBER OF THE INDIVIDUAL CASTING.

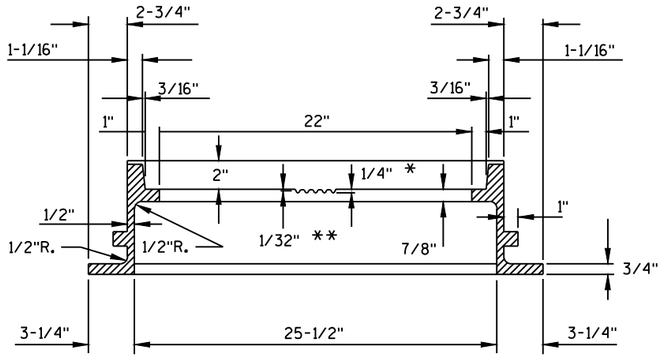
2. ON THE SEAT OF THE FRAME IN 1 INCH HIGH LETTERS, THE CASTING IDENTIFICATION NUMBER (M.S.51).

ON THE GRATE

1. ON THE UPPER SIDE OF THE GRATE IN 1 INCH HIGH LETTERS, THE INITIALS OR MONOGRAM OF THE FOUNDRY, THE YEAR MADE, THE CASTING IDENTIFICATION NUMBER (M.S.57) AND THE SERIAL NUMBER OF THE INDIVIDUAL CASTING.



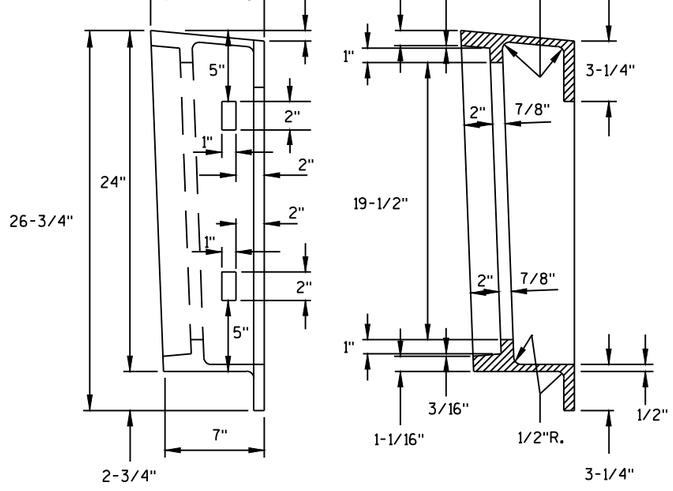
GRATE



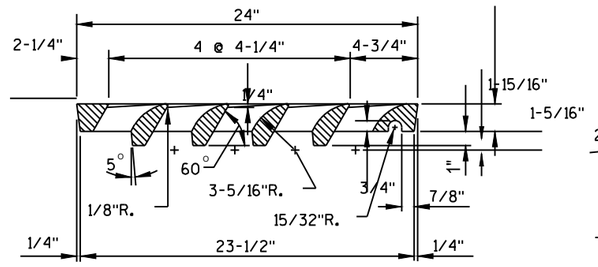
SECTION D-D

*DEPRESSION FOR LETTERS

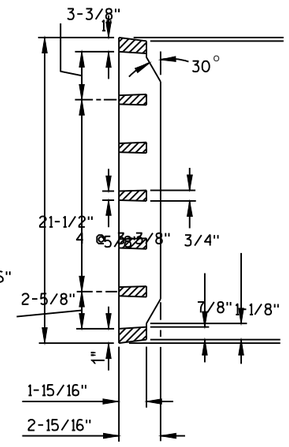
**CLEARANCE FROM TOP OF LETTERS TO FACE OF SEAT



SECTION E-E



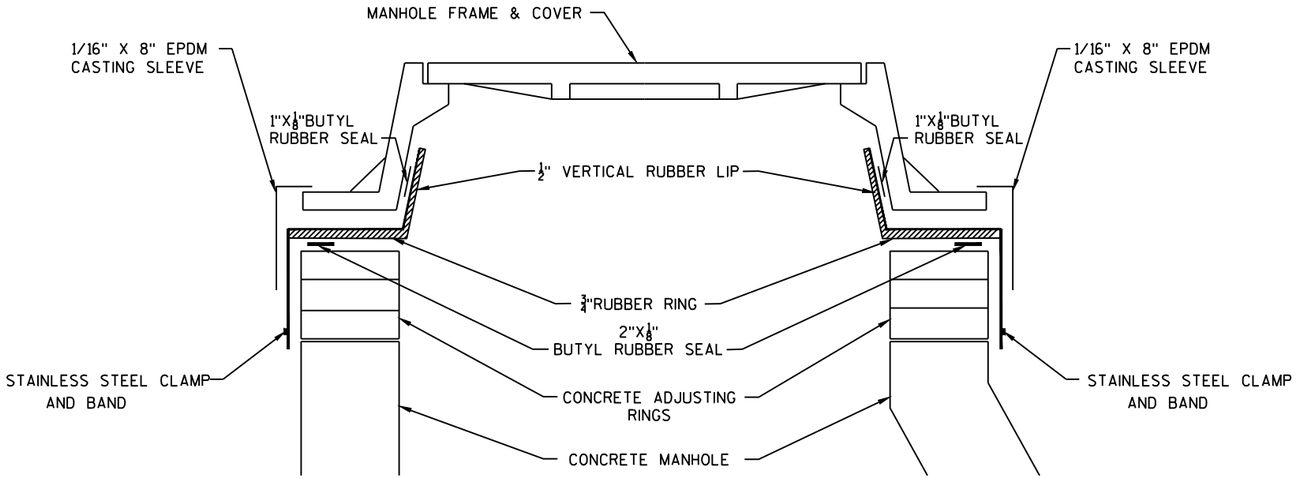
SECTION F-F



SECTION G-G

INLET COVER - TYPE 57

LID-145 LBS., FRAME-204 LBS.



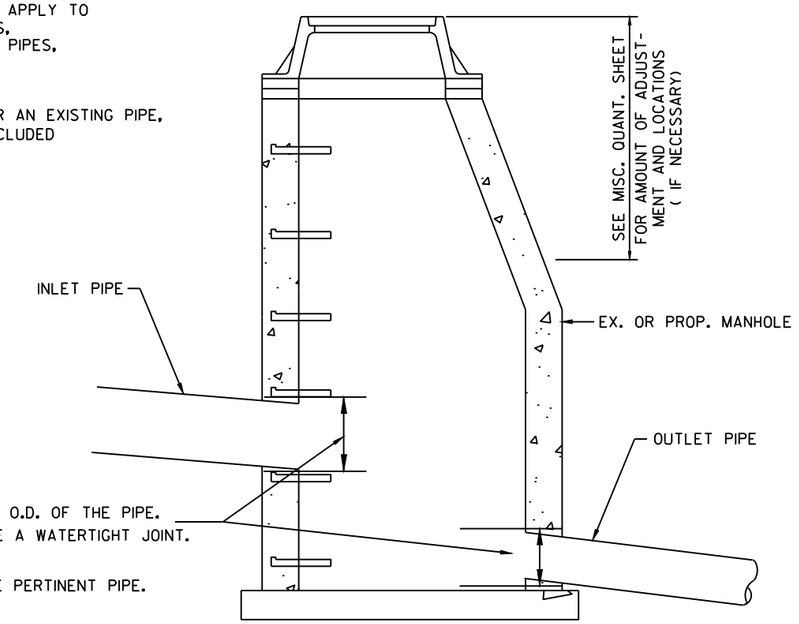
INTERNAL / EXTERNAL SANITARY MANHOLE SEAL

NOTE: PROVIDE BOX OUT OR STEEL PAVING RING FOR CONCRETE PAVEMENT AREAS

CONSTRUCTION NOTES

1. CONSTRUCTION METHODS ARE "TYPICAL" AND APPLY TO NEW PIPE CONNECTING TO EXISTING MANHOLES, NEW MANHOLES CONSTRUCTED OVER EXISTING PIPES, AND NEW CONSTRUCTION

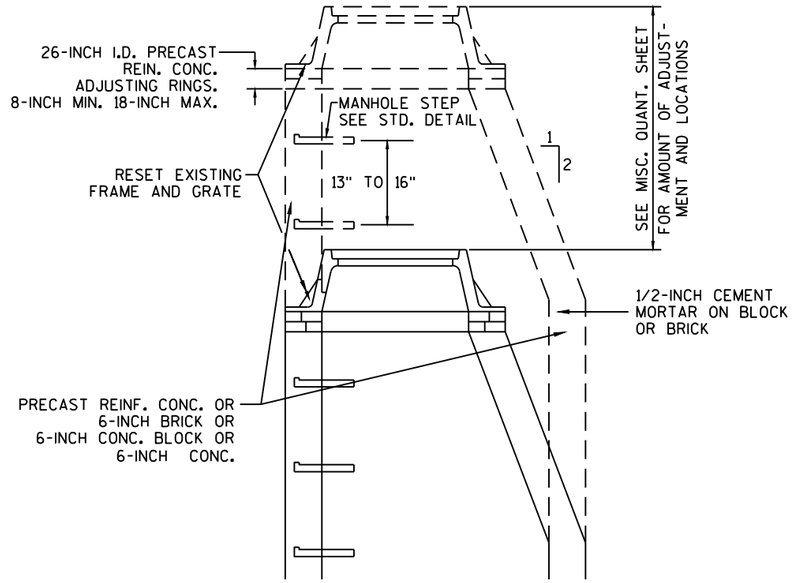
2. WHEN A NEW MANHOLE IS CONSTRUCTED OVER AN EXISTING PIPE, THE COST OF THE CONNECTION SHALL BE INCLUDED IN THE UNIT BID PRICE OF THE MANHOLE.



CUT IN CONNECTION 1-INCH LARGER THAN THE O.D. OF THE PIPE. ANNULAR SPACE TO BE MORTARED TO ENSURE A WATERTIGHT JOINT.

COST OF THIS CONNECTION IS TO BE INCLUDED IN THE UNIT PRICE PER LINEAL FOOT OF THE PERTINENT PIPE.

DETAIL FOR CONNECTION TO MANHOLES



DETAIL FOR RECONSTRUCTING MANHOLES

NOTES FOR RECONSTRUCTING MANHOLES

1. SEE MISCELLANEOUS QUANTITY SHEET FOR ADJUSTMENT DEPTH.

2. CONSTRUCTION METHODS ARE "TYPICAL" AND MAY APPLY TO EITHER RECONSTRUCTING OR ADJUSTING MANHOLES.

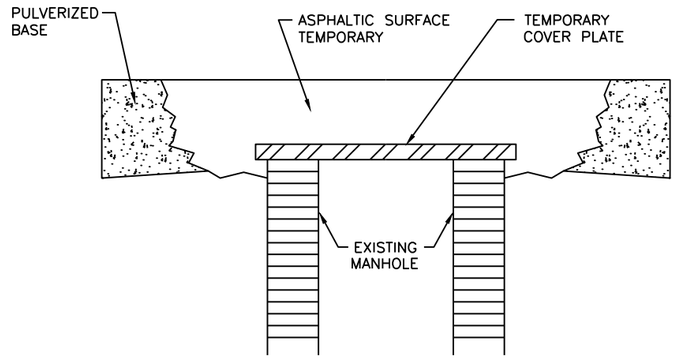
3. ADJUST FRAME TO GRATE WITH PRECAST CONCRETE RINGS OF VARIABLE THICKNESS. MAXIMUM RING HEIGHT IS 18-INCHES . MINIMUM RING HEIGHT IS 8-INCHES. CONCRETE RINGS SHALL BE REINFORCED WITH ONE LINE OF STEEL CENTERED WITHIN THE RING. WHERE NECESSARY, RINGS SHALL BE GROOVED TO RECEIVE STEP.

   CONCRETE AND STEEL REINFORCEMENT SHALL CONFORM TO DESIGNATION C-478 REQUIREMENTS OF ASTM SPECIFICATIONS. JOINTS SHALL BE WATERTIGHT AND SHALL BE MADE USING RUBBER GASKETS FOR SANITARY MANHOLES.

4. WHEN RESETTING EXISTING COVERS, REPAIRING BRICKWORK UP TO 12-INCH DEPTH IS PAID AS ADJUSTING COVERS, UNLESS THERE IS A RECONSTRUCT. WHERE NEW COVERS ARE PLACED, THE FIRST 6-INCHES OF ADJUSTMENT OR REPAIR IS PART OF THE NEW COVER. ADJUSTING OR REPAIRING GREATER THAN 6-INCH AND UP TO 12-INCHES SHALL BE PAID AS ADJUSTING COVERS. WHEN THE DEPTH OF THE WORK IS GREATER THAN 12-INCHES, ALL WORK SHALL BE PAID AS RECONSTRUCT.

2

COVER PLATE TEMPORARY



STEP 1 (PRIOR TO HMA OVERLAY)

A. REMOVE BY SAWING AROUND MANHOLE AND STORE MANHOLE COVER*

B. FURNISH AND INSTALL TEMPORARY COVER PLATE

C. BACKFILL USING ASPHALTIC SURFACE TEMPORARY*

STEP 2 (AFTER PAVING LOWER COURSES)

A. EXCAVATE AND REMOVE TEMPORARY COVER PLATE*

B. ADJUST MANHOLE AND REINSTALL MANHOLE COVER TO FINISH GRADE**

UTILITY CO. MANHOLES

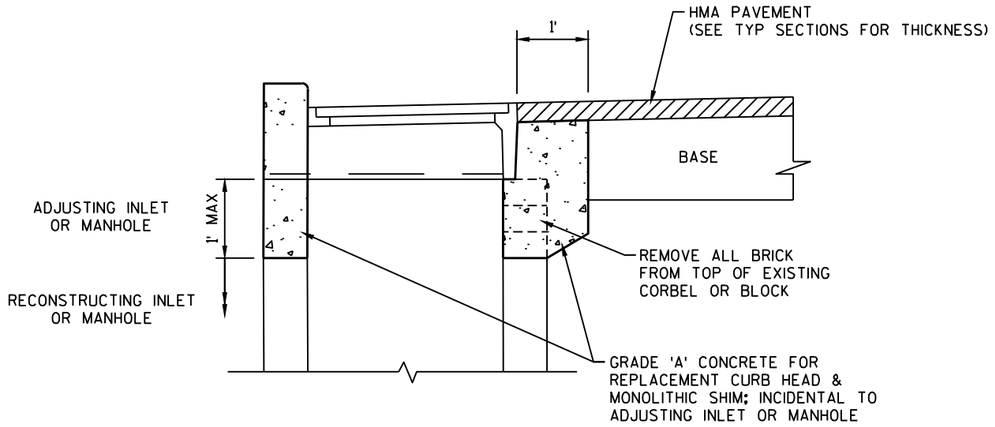
STEP 1A SAWING AND PAVEMENT REMOVAL BY CONTRACTOR.
FRAME AND COVER REMOVAL AND STORAGE BY UTILITY CO.
STEP 1B AND 1C BY CONTRACTOR

STEP 2A BY CONTRACTOR IN COORDINATION WITH WORK BY UTILITY CO.
STEP 2B BY UTILITY CO. IN COORDINATION WITH CONTRACTOR

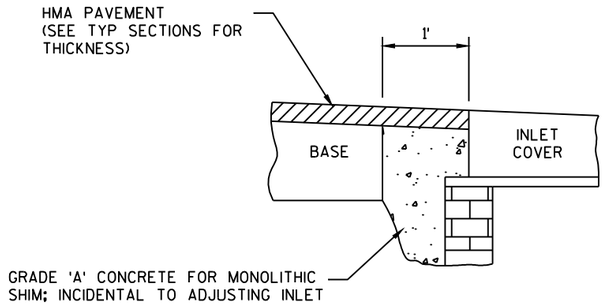
NOTES:

* SAWING AROUND THE STRUCTURE, REMOVAL OF ADJACENT PAVEMENT, REMOVAL AND STORAGE OF LID, BACKFILLING WITH ASPHALTIC SURFACE TEMPORARY, AND REMOVAL OF ASPHALTIC SURFACE TEMPORARY ARE INCIDENTAL TO THE ITEM COVER PLATES TEMPORARY

** ADJUSTING OR RECONSTRUCTING OF INLETS OR MANHOLES WILL BE PAID UNDER THE PERTINENT BID ITEM



(MONOLITHIC SHIM ALTERNATIVE)



SECTION A-A

DRAINAGE STRUCTURE NOTES

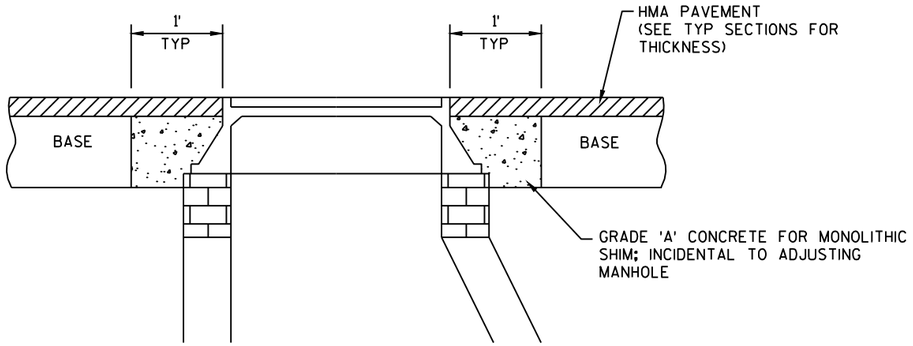
CURB BOXES ON MONOLITHIC ADJUSTED INLETS TO BE REMOVED AND THE NEW CURB HEAD CONSTRUCTED OF GRADE 'A' CONCRETE.

LIMITS FOR "RECONSTRUCTING MANHOLE" OR "RECONSTRUCTING INLET" IS FROM THE TOP OF CORBEL OR BLOCK SECTION TO THE TOP OF FOOTING.

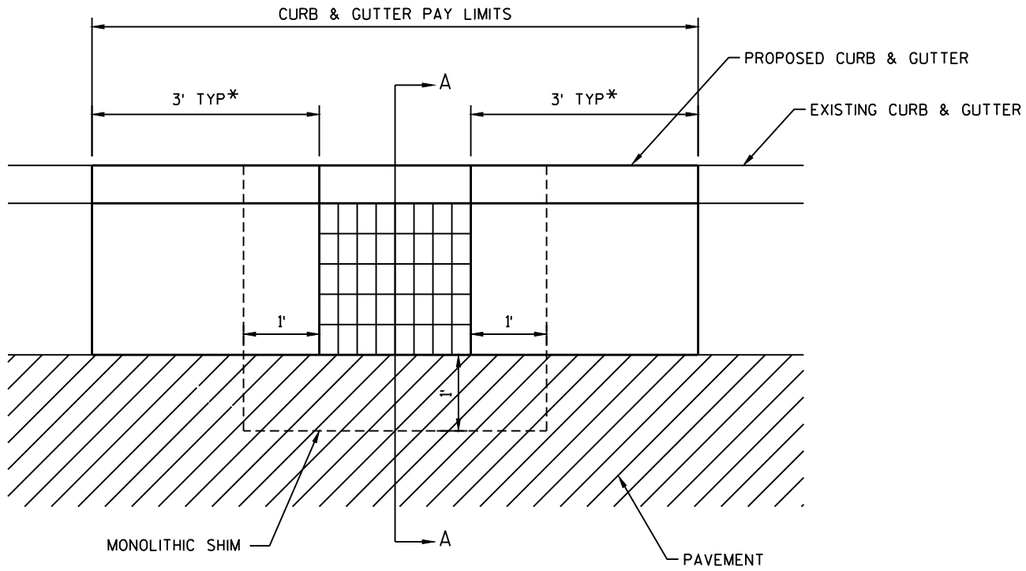
REHABILITATED SEWER STRUCTURES SHALL NOT BE BACKFILLED UNTIL 12 HOURS HAVE ELAPSED FROM COMPLETION OF THE UNIT.

WHEN NEW FRAMES/COVERS ARE PLACED, THE FIRST 6" OF ADJUSTMENT OR REPAIRING IS INCIDENTAL TO THE NEW COVER. ANY ADJUSTMENT OR REPAIR OF BRICKWORK BETWEEN 6" AND 12" WILL BE PAID AS ADJUSTING COVERS. WHEN THE DEPTH OF WORK IS GREATER THAN 12", WORK WILL BE PAID AS RECONSTRUCTING MANHOLES TO INLETS.

MANHOLE ADJUSTMENTS IN HMA PAVEMENT WILL BE MADE AFTER THE LOWER COURSE IS PLACED.



* OR TO NEAREST JOINT (6' MAX) OR AS DIRECTED BY THE ENGINEER

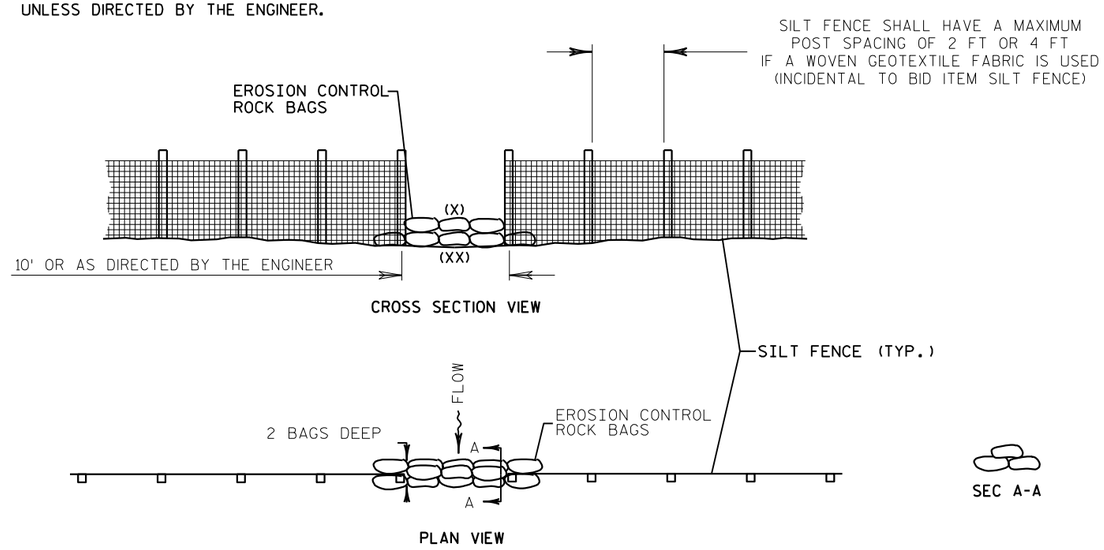


RECONSTRUCTING MANHOLES/INLETS
ADJUSTING MANHOLES/INLETS

NOTES:

(X) OPENING TO BE PLACED AT LOW POINTS AS DIRECTED BY ENGINEER.

(XX) OPENING IN SILT FENCE NOT TO BE PLACED WITHIN 25' OF THE END OF THE SILT FENCE UNLESS DIRECTED BY THE ENGINEER.



EROSION CONTROL ROCK BAG OPENING IN SILT FENCE

LOCATIONS DETERMINED BY ENGINEER

2

2

APPROXIMATE EXTENT OF
HAZMAT SOILS (JUNE 2024)

N

HAZMAT SOILS
STA. 15+30 - STA. 16+00 RT
3' BELOW GROUND SURFACE TO MAXIMUM
EXCAVATION DEPTH

S. 13TH STREET (CTH V)

PI: 10+10.01WB

PI: 10+09.95

PI: 16+55.28WB

PI: 16+55.07

W. RAWSON AVENUE (CTH BB)

S. 10TH STREET

8WB 10WB 12WB 14WB 16WB 18WB 20WB 22WB

8 10 12 14 16 18 20 22

BP: 7+34.39

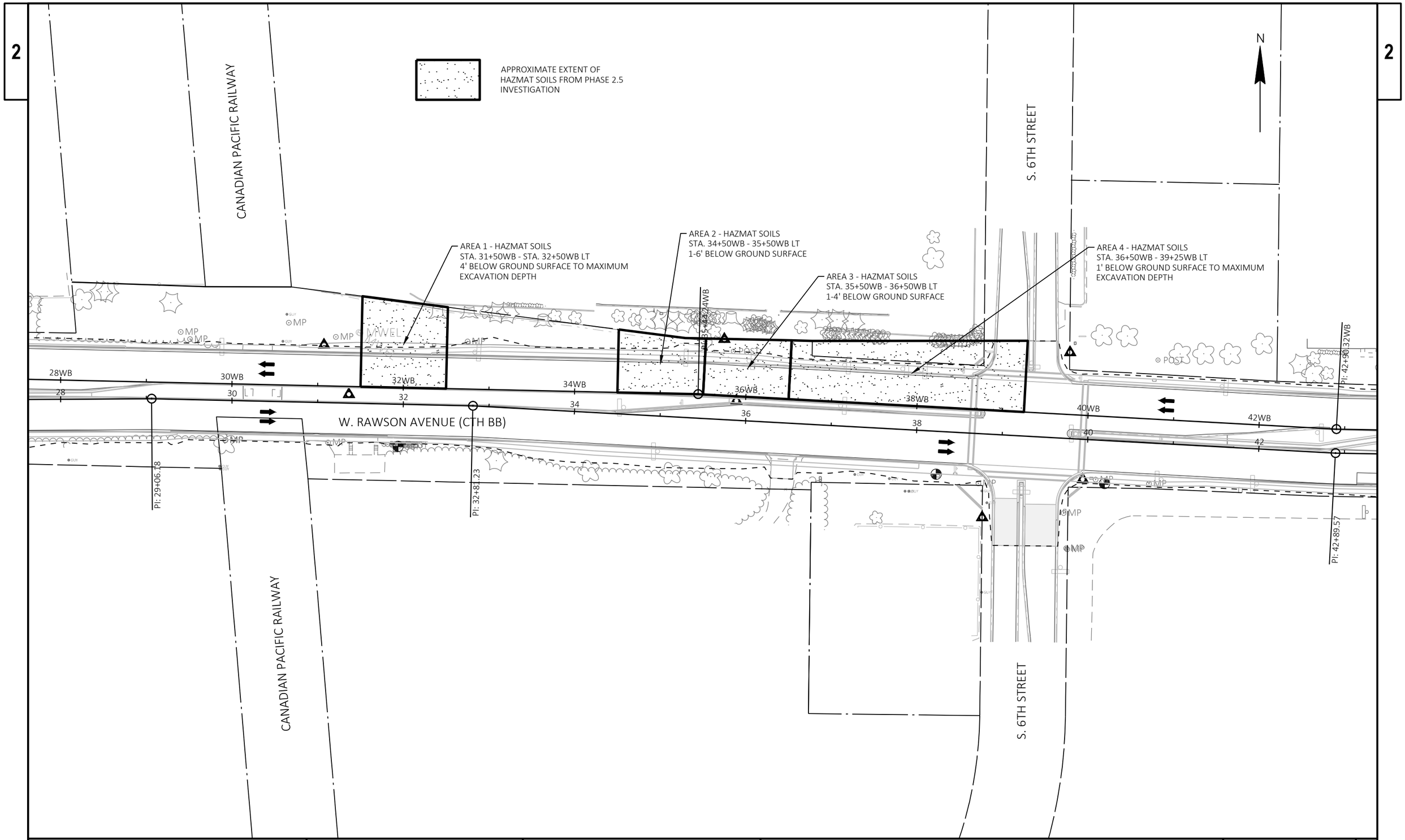
MP POST GUY HSE

PROJECT NO: 2050-08-71	HWY: CTH BB	COUNTY: MILWAUKEE	CONSTRUCTION DETAIL - HAZMAT SOILS	SHEET 21	E

FILE NAME : \\W3027S02\DPPIS\DPW PROFESSIONAL\DATA\HIGHWAY OPERATIONS CONTROL FILE\CENTRAL FILES\2010-2014\CTH BB - W. RAWSON AVE\2050-08-01 S 13TH ST TO W HOWELL AVE\DESIGN\PLANS\2050080130220HAZMAT.DWG
LAYOUT NAME - 01

PLOT BY : HILLIARD, MARC PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42



PROJECT NO: 2050-08-71	HWY: CTH BB	COUNTY: MILWAUKEE	CONSTRUCTION DETAIL - HAZMAT SOILS	SHEET 22 E

FILE NAME : \\W3027S02\DPPIS\DPW PROFESSIONAL\DATA\HIGHWAY OPERATIONS CONTROL FILE\CENTRAL FILES\2010-2014\CTH BB - W. RAWSON AVE\2050-08-01 S 13TH ST TO W HOWELL AVE\DESIGN\PLANS\2050080130220244A2.DWG
LAYOUT NAME - 02

PLOT BY : HILLIARD, MARC PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

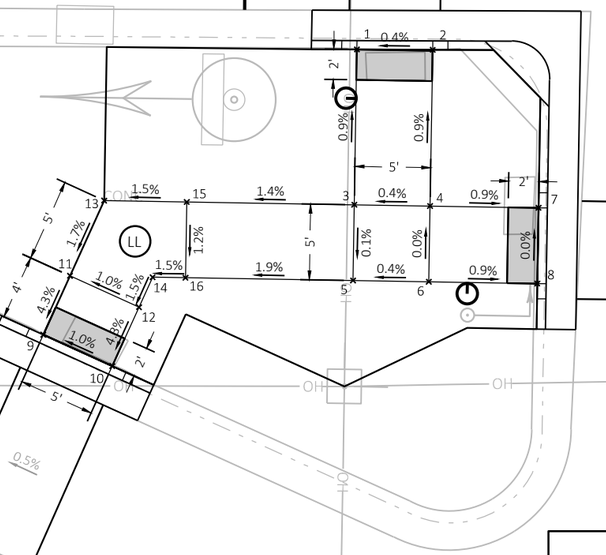
2

N

W. RAWSON AVENUE (CTH BB)

STATION & OFFSET TABLE					
POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION
1	9+57.80	38.26	340764.103	2554243.099	727.41
2	9+62.80	38.28	340764.161	2554248.099	727.43
3	9+57.63	48.51	340753.856	2554243.091	727.50
4	9+62.63	48.59	340753.852	2554248.091	727.52
5	9+57.55	53.51	340748.856	2554243.087	727.50
6	9+62.54	53.59	340748.852	2554248.087	727.52
7	9+69.79	48.71	340753.846	2554255.252	727.46
8	9+69.70	53.71	340748.846	2554255.248	727.46
9	9+37.10	57.08	340744.957	2554222.704	726.99
10	9+41.66	59.15	340742.962	2554227.288	727.04
11	9+38.87	53.19	340748.871	2554224.407	727.17
12	9+43.42	55.26	340746.876	2554228.992	727.22
13	9+41.12	48.23	340753.870	2554226.583	727.27
14	9+44.32	53.29	340748.867	2554229.859	727.26
15	9+46.57	48.32	340753.865	2554232.034	727.35
16	9+46.49	53.32	340748.865	2554232.030	727.29

TYPE 6 RAMP



S. 13TH STREET (CTH V)

LEGEND

- PEDESTRIAN PUSH BUTTON
- DETECTABLE WARNING FIELD (DWF)
- LEVEL LANDING

PROJECT NO: 2050-08-71	HWY: CTH BB	COUNTY: MILWAUKEE	CONSTRUCTION DETAILS - CURB RAMPS	SHEET 23	E

FILE NAME : \\W3027S02\DPPIS\DPW PROFESSIONAL\DATA\HIGHWAY OPERATIONS CONTROL FILE\CENTRAL FILES\2010-2014\CTH BB - W. RAWSON AVE\2050-08-01 S 13TH ST TO W HOWELL AVE\DESIGN\PLANS\2050080130_02.DWG 10/30/2014 4:58 PM
LAYOUT NAME - 01

PLOT BY : HILLIARD, MARC PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 42

S. 13TH STREET (CTH V)

W. RAWSON AVENUE (CTH BB)

TYPE 7A RAMP

TYPE 6 RAMP

PEDESTRIAN CURB*

SLOPE INTERCEPT

FULL WALK BUS STOP

TILE

GAS PIPELINE MARKER

MCI BROADBAND HANDHOLE

R/W

N

STATION & OFFSET TABLE					
POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION
42	10+49.50	-109.05	340911.339	2554336.584	728.98
43	10+52.86	-105.34	340907.557	2554339.869	728.92
44	10+58.34	-100.98	340903.075	2554345.245	728.44
45	10+62.70	-98.53	340900.528	2554349.548	728.32
46	10+69.81	-95.88	340897.719	2554356.601	728.64
47	10+74.56	-94.33	340896.067	2554361.320	728.57
48	10+53.42	-112.16	340914.358	2554340.570	729.02
49	10+56.33	-108.95	340911.081	2554343.416	728.96
51	10+61.69	-106.94	340908.953	2554348.725	728.50
52	10+66.54	-105.36	340907.268	2554353.538	728.44
53	10+72.29	-103.49	340905.270	2554359.245	728.76
54	10+77.04	-101.94	340903.618	2554363.963	728.69

* ADD 0.5' TO ADJACENT POINT ELEVATIONS FOR PEDESTRIAN CURB

STATION & OFFSET TABLE					
POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION
391	10+40.08	-78.06	340880.561	2554326.488	728.28
392	10+42.08	-78.10	340880.560	2554328.488	728.34
393	10+46.38	-78.20	340880.558	2554332.787	728.46
394	10+48.15	-78.23	340880.557	2554334.554	728.49
395	10+40.19	-73.06	340875.561	2554326.486	728.20
396	10+42.19	-73.10	340875.560	2554328.486	728.26
397	10+46.49	-73.20	340875.558	2554332.785	728.38
398	10+46.43	-68.73	340871.093	2554332.628	728.09
399	10+46.41	-66.73	340869.095	2554332.557	728.18
400	10+51.40	-66.66	340868.919	2554337.554	728.16
401	10+51.43	-68.66	340870.917	2554337.625	728.04
402	10+51.48	-72.31	340874.564	2554337.753	728.33
403	10+52.90	-76.69	340878.905	2554339.273	728.41
404	10+49.48	-82.34	340884.631	2554335.980	728.46
405	10+54.24	-80.79	340882.979	2554340.699	728.43
406	10+50.10	-84.24	340886.519	2554336.641	728.44
407	10+54.86	-82.69	340884.867	2554341.360	728.42

LEGEND

- PEDESTRIAN PUSH BUTTON
- DETECTABLE WARNING FIELD (DWF)
- LEVEL LANDING

PROJECT NO: 2050-08-71	HWY: CTH BB	COUNTY: MILWAUKEE	CONSTRUCTION DETAILS - CURB RAMPS	SHEET 24	E

FILE NAME : \\W3027S02\DPPI$\DPW PROFESSIONAL\DATA\HIGHWAY OPERATIONS CONTROL FILE\CENTRAL FILES\2010-2014\CTH BB - W. RAWSON AVE\2050-08-01 S 13TH ST TO W HOWELL AVE\DESIGN\PLANS\2050081_02.DWG 10/30/2014 3:58 PM
LAYOUT NAME - 02

PLOT BY : HILLIARD, MARC PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 42

STATION & OFFSET TABLE					
POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION
417	10+44.31	58.71	340743.729	2554327.689	728.10
418	10+46.67	53.20	340749.192	2554330.169	727.62
419	10+49.51	49.08	340753.241	2554333.103	727.64
420	10+49.87	48.66	340753.652	2554333.469	727.81
421	10+50.20	48.29	340754.018	2554333.809	727.82
422	10+50.57	47.89	340754.414	2554334.191	727.65
423	10+54.32	44.57	340757.646	2554338.006	727.67
424	10+59.51	41.57	340760.532	2554343.266	728.20
425	10+62.55	40.44	340761.591	2554346.329	728.21
426	10+62.55	45.06	340756.978	2554346.227	728.06
427	10+67.55	45.06	340756.867	2554351.226	728.04
428	10+48.49	59.98	340742.370	2554331.837	727.74
429	10+53.93	59.86	340742.373	2554337.282	727.79
430	10+48.31	54.33	340748.019	2554331.788	727.65
431	10+53.80	55.68	340746.551	2554337.246	727.73

STATION & OFFSET TABLE					
POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION
432	10+55.64	46.07	340756.120	2554339.299	727.70
433	10+58.23	50.69	340751.442	2554341.780	727.78
434	10+62.55	50.06	340751.979	2554346.117	728.11
435	10+67.55	50.04	340751.871	2554351.116	728.09
436	10+85.25	45.06	340756.476	2554368.918	727.98
437	10+85.68	50.04	340751.480	2554369.243	728.00

STATION & OFFSET TABLE					
POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION
30	11+20.58	44.50	340756.252	2554404.257	728.09
31	11+19.97	49.50	340751.267	2554403.534	728.04
32	11+25.53	44.50	340756.031	2554414.254	728.63
33	11+25.53	49.49	340751.033	2554414.144	728.72
34	11+30.53	44.50	340755.921	2554419.253	728.69
35	11+30.53	49.49	340750.922	2554419.143	728.79

S. 13TH STREET (CTH V)

W. RAWSON AVENUE (CTH BB)

SPLIT WALK BUS STOP

TYPE 2 RAMP

SLOPE INTERCEPT

SLOPE INTERCEPT

R/W

PROP R/W

1225 (BP GAS STATION)

STEEL SIGN "BP GAS STATION"

BM#12

CONC

GUY

N

LEGEND

- PEDESTRIAN PUSH BUTTON
- DETECTABLE WARNING FIELD (DWF)
- LEVEL LANDING

PROJECT NO: 2050-08-71	HWY: CTH BB	COUNTY: MILWAUKEE	CONSTRUCTION DETAILS - CURB RAMPS	SHEET 25	E

FILE NAME : \\W3027S02\DPPI$\DPW PROFESSIONAL\DATA\HIGHWAY OPERATIONS CONTROL FILE\CENTRAL FILES\2010-2014\CTH BB - W. RAWSON AVE\2050-08-01 S 13TH ST TO W HOWELL AVE\DESIGN\PLANS\2050080130_02.DWG 10/30/2014 3:58 PM
LAYOUT NAME - 03

PLOT BY : HILLIARD, MARC PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 42

2

2

TLE

TLE

ASPH

1200 (SHELL GAS STATION)

AT&T CABINET

AT&T HAND HOLE

SLOPE INTERCEPT

SLOPE INTERCEPT

R/W

R/W

TYPE 4B1 RAMP

TYPE 4B1 RAMP

UNPAVED
NON-TRAVERSABLE FLARE
MAX SLOPE 6:1

UNPAVED
NON-TRAVERSABLE FLARE
MAX SLOPE 6:1

UNPAVED
NON-TRAVERSABLE FLARE
MAX SLOPE 6:1

UNPAVED
NON-TRAVERSABLE FLARE
MAX SLOPE 6:1

CONC

FLAGPOLE

ENTER SIGN BURGER

N

55 0.4% 56 3.3% 57 3.3% 58 0.5% 59
1.5% 1.5% 1.5% 1.6% 1.0%
61 0.4% 62 3.3% 63 3.3% 64
2.0%

67 0.5% 68 0.7% 69 0.7% 70
1.8% 1.6% 1.5%
1.0%
71 0.8% 72 0.8% 73

STATION & OFFSET TABLE

POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION
67	13+91.24	-78.08	340872.823	2554677.554	728.29
68	73+97.03	-78.08	340872.737	2554681.412	728.31
69	14+02.03	-78.08	340872.584	2554688.345	728.36
70	14+07.03	-78.08	340872.474	2554693.344	728.40
71	13+95.03	-73.08	340867.740	2554681.236	728.22
72	14+02.03	-73.08	340867.585	2554688.235	728.28
73	14+07.03	73.08	340867.475	2554693.234	728.32

STATION & OFFSET TABLE

POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION
55	13+31.09	-78.08	340874.152	2554617.426	728.66
56	13+36.09	-78.08	340874.042	2554622.425	728.64
57	13+40.38	-78.08	340873.947	2554626.715	728.78
58	13+47.38	-78.08	340873.792	2554633.714	729.01
59	13+50.98	-78.08	340873.713	2554637.310	728.99
61	13+31.09	-73.08	340869.154	2554617.315	728.58
62	13+36.09	-73.08	340869.043	2554622.314	728.56
63	13+40.38	-73.08	340868.948	2554626.605	728.70
64	13+47.38	-73.08	340868.793	2554633.603	728.93

728.047

W. RAWSON AVENUE (CTH BB)

LEGEND

- PEDESTRIAN PUSH BUTTON
- DETECTABLE WARNING FIELD (DWF)
- LEVEL LANDING

PROJECT NO: 2050-08-71	HWY: CTH BB	COUNTY: MILWAUKEE	CONSTRUCTION DETAILS - CURB RAMPS	SHEET 26	E

FILE NAME : \\W3027S02\DPPI$\DPW PROFESSIONAL\DATA\HIGHWAY OPERATIONS CONTROL FILE\CENTRAL FILES\2010-2014\CTH BB - W. RAWSON AVE\2050-08-01 S 13TH ST TO W HOWELL AVE\DESIGN\PLANS\2050080130_01.DWG
LAYOUT NAME - 04
10/30/2014 4:59 PM
PLOT BY : HILLIARD, MARC
PLOT NAME :
PLOT SCALE : 1 IN:10 FT
WISDOT/CADDS SHEET 42

2

N

STATION & OFFSET TABLE					
POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION
120	19+90.58	38.58	340752.237	2555270.321	724.58
121	19+90.58	38.58	340744.237	2555270.367	724.59
122	19+90.58	38.58	340752.265	2555275.321	724.55
123	19+95.06	38.80	340752.079	2555279.800	724.08
124	20+00.06	39.54	340751.363	2555284.804	724.03
125	20+03.41	40.35	340750.568	2555288.169	724.25
126	20+03.90	40.49	340750.433	2555288.650	724.24
127	20+07.18	41.58	340749.360	2555291.936	723.95
128	20+16.93	46.58	340744.416	2555301.723	723.84
129	20+19.37	48.33	340742.685	2555304.173	724.22
130	19+90.58	46.58	340744.265	2555275.367	724.55
131	19+95.06	46.58	340744.291	2555279.845	724.21
132	20+00.06	46.58	340744.320	2555284.845	724.13

W. RAWSON AVENUE (CTH BB)

TYPE 2 RAMP

TYPE 4B1 RAMP

BACK OF CURB RADIUS = 47.42'
LANDING LENGTH = 5.00'
RADIAL WARNING FIELD AREA = 24.54 S.F.
RADIAL LONG CHORD DIMENSION = 10.96'

FULL WALK BUS STOP

SLOPE INTERCEPT

R/W

PROP R/W

UNPAVED
NON-TRAVERSABLE FLARE
MAX SLOPE 6:1

BM#14

S. 10TH STREET

CONC

OH

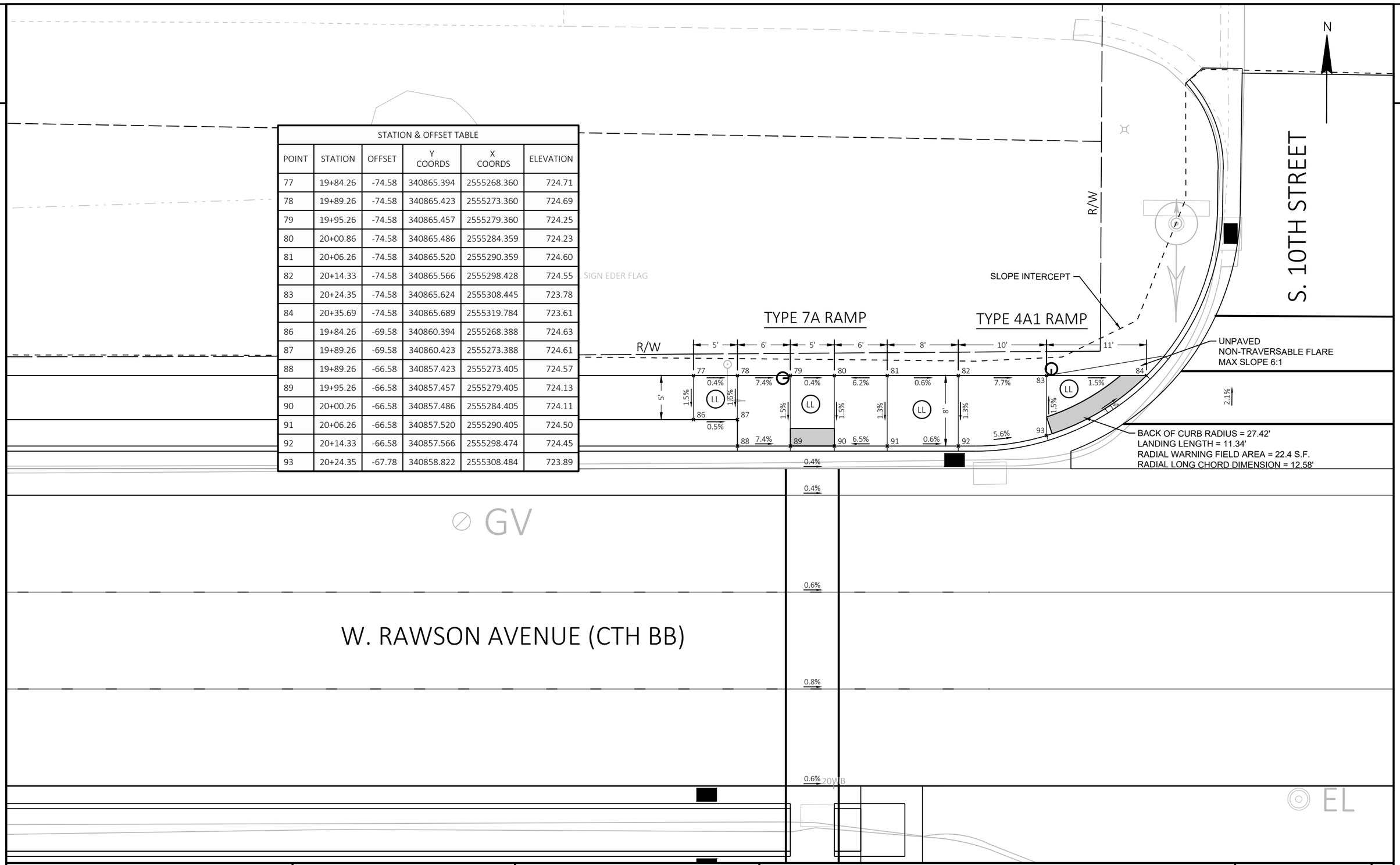
MP

SAN

PROJECT NO: 2050-08-71	HWY: CTH BB	COUNTY: MILWAUKEE	CONSTRUCTION DETAILS - CURB RAMPS	SHEET 27	E

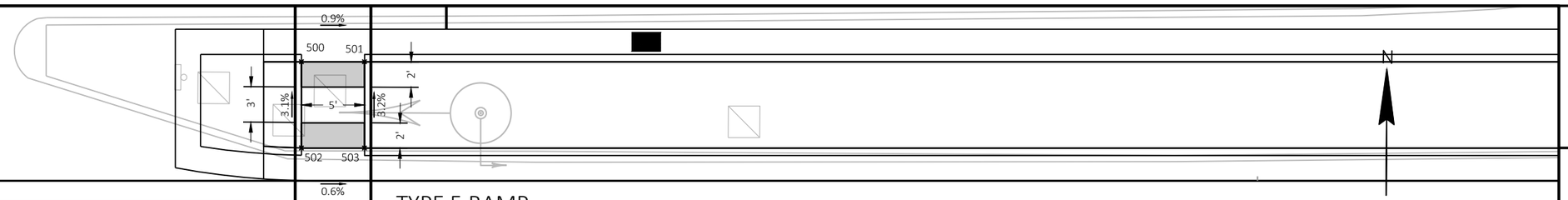
FILE NAME : \\W3027S02\DPPIS\DPW PROFESSIONAL\DATA\HIGHWAY OPERATIONS CONTROL FILE\CENTRAL FILES\2010-2014\CTH BB - W. RAWSON AVE\2050-08-01 S 13TH ST TO W HOWELL AVE\DESIGN\PLANS\2050080102.DGN 10/30/2014 3:59 PM
LAYOUT NAME - 05
PLOT BY : HILLIARD, MARC PLOT NAME : PLOT SCALE : 1 IN:10 FT
WISDOT/CADDS SHEET 42

STATION & OFFSET TABLE					
POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION
77	19+84.26	-74.58	340865.394	2555268.360	724.71
78	19+89.26	-74.58	340865.423	2555273.360	724.69
79	19+95.26	-74.58	340865.457	2555279.360	724.25
80	20+00.86	-74.58	340865.486	2555284.359	724.23
81	20+06.26	-74.58	340865.520	2555290.359	724.60
82	20+14.33	-74.58	340865.566	2555298.428	724.55
83	20+24.35	-74.58	340865.624	2555308.445	723.78
84	20+35.69	-74.58	340865.689	2555319.784	723.61
86	19+84.26	-69.58	340860.394	2555268.388	724.63
87	19+89.26	-69.58	340860.423	2555273.388	724.61
88	19+89.26	-66.58	340857.423	2555273.405	724.57
89	19+95.26	-66.58	340857.457	2555279.405	724.13
90	20+00.26	-66.58	340857.486	2555284.405	724.11
91	20+06.26	-66.58	340857.520	2555290.405	724.50
92	20+14.33	-66.58	340857.566	2555298.474	724.45
93	20+24.35	-67.78	340858.822	2555308.484	723.89



PROJECT NO: 2050-08-71	HWY: CTH BB	COUNTY: MILWAUKEE	CONSTRUCTION DETAILS - CURB RAMPS	SHEET 28	E

FILE NAME : \\W3027S02\DPPI$\DPW PROFESSIONAL\DATA\HIGHWAY OPERATIONS CONTROL FILE\CENTRAL FILES\2010-2014\CTH BB - W. RAWSON AVE\2050-08-01 S 13TH ST TO W HOWELL AVE\DESIGN\PLANS\2050-08-71_CONTROL.DWG
LAYOUT NAME - 06
PLOTTED : 10/30/2014 3:59 PM
PLOT BY : HILLIARD, MARC
PLOT NAME :
PLOT SCALE : 1 IN:10 FT
WISDOT/CADDS SHEET 42



TYPE 5 RAMP

STATION & OFFSET TABLE					
POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION
500	21+24.23	-9.42	340801.030	2555408.698	723.34
501	21+29.23	-9.42	340801.059	2555413.698	723.28
502	21+24.23	-2.59	340794.206	2555408.737	723.55
503	21+29.23	-2.58	340794.226	2555413.737	724.02

W. RAWSON AVENUE (CTH BB)

TYPE 2 RAMP

STATION & OFFSET TABLE					
POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION
137	21+03.52	48.53	340742.965	2555388.317	723.44
138	21+05.80	46.58	340744.925	2555390.588	723.06
140	21+14.24	41.58	340749.974	2555399.003	723.16
141	21+18.96	39.93	340751.651	2555403.713	723.63
142	21+19.32	39.84	340751.751	2555404.073	723.64
143	21+24.23	38.88	340752.736	2555408.975	723.28
144	21+29.23	38.58	340753.060	2555413.973	723.32
145	21+32.23	38.58	340753.077	2555416.973	723.72
146	21+24.23	41.58	340750.031	2555408.990	723.31
147	21+29.23	41.58	340750.060	2555413.990	723.35
148	21+20.57	41.58	340750.010	2555405.326	723.25
149	21+24.23	46.58	340745.031	2555409.019	723.39
150	21+29.23	46.58	340745.060	2555414.019	723.43
151	21+20.57	46.58	340745.010	2555405.354	723.28

BACK OF CURB RADIUS = 37.42'
LANDING LENGTH = 5.00'
RADIAL WARNING FIELD AREA = 21.88 S.F.
RADIAL LONG CHORD DIMENSION = 10.89'

TYPE 4B1 RAMP

UNPAVED
NON-TRAVERSABLE FLARE
MAX SLOPE 6:1

UNPAVED
NON-TRAVERSABLE FLARE
MAX SLOPE 6:1

SLOPE INTERCEPT

R/W

R/W

S. 10TH STREET

LEGEND

- PEDESTRIAN PUSH BUTTON
- DETECTABLE WARNING FIELD (DWF)
- LL — LEVEL LANDING

PROJECT NO: 2050-08-71	HWY: CTH BB	COUNTY: MILWAUKEE	CONSTRUCTION DETAILS - CURB RAMPS	SHEET 29	E

2

N

S. 10TH STREET

PROP R/W

SLOPE INTERCEPT

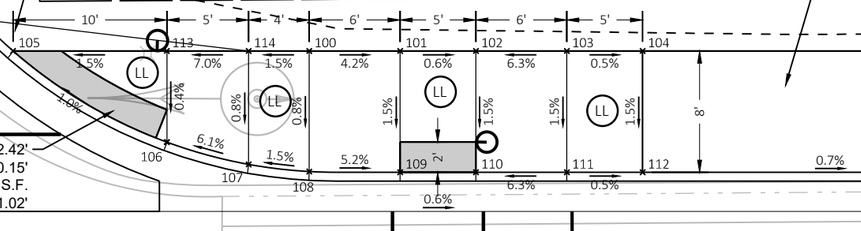
UNPAVED
NON-TRAVERSABLE FLARE
MAX SLOPE 6:1

6'H"x8'W 4"x4"
Wood Sign

FULL WALK BUS STOP

TYPE 7A RAMP

TYPE 4A1 RAMP



BACK OF CURB RADIUS = 32.42'
LANDING LENGTH = 10.15'
RADIAL WARNING FIELD AREA = 19.11 S.F.
RADIAL LONG CHORD DIMENSION = 11.02'

STATION & OFFSET TABLE					
POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION
100	21+18.23	-74.58	340866.161	2555402.325	723.77
101	21+24.23	-74.58	340866.196	2555408.325	723.52
102	21+29.23	-74.58	340866.224	2555413.325	723.49
103	21+35.23	-74.58	340866.259	2555419.325	723.87
104	21+40.23	-74.58	340866.287	2555424.324	723.84
105	21+07.96	-66.14	340866.049	2555382.782	723.18
106	21+08.84	-68.57	340860.095	2555392.964	723.31
107	21+14.23	-67.10	340858.658	2555398.368	723.65
108	21+18.23	-66.63	340858.210	2555402.370	723.71
109	21+24.23	-66.58	340858.196	2555408.371	723.40
110	21+29.23	-66.58	340858.224	2555413.370	723.37
111	21+35.23	-66.58	340858.259	2555419.370	723.75
112	21+40.23	-66.58	340858.287	2555424.370	723.72
113	21+40.23	-66.58	340866.108	2555392.930	723.33
114	21+40.23	-66.58	340866.138	2555398.325	723.71

GV

CONC

0.6%

0.6%

0.6%

0.6%

W. RAWSON AVENUE (CTH BB)

PROJECT NO: 2050-08-71	HWY: CTH BB	COUNTY: MILWAUKEE	CONSTRUCTION DETAILS - CURB RAMPS	SHEET 30	E

2

N

W. RAWSON AVENUE (CTH BB)

ASPH

STATION & OFFSET TABLE					
POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION
169	27+06.48	44.00	340750.950	2555991.240	716.33
170	27+16.45	44.00	340751.007	2556001.218	716.56
171	27+21.45	44.00	340751.035	2556006.218	716.63
172	27+01.98	49.00	340745.924	2555986.770	716.41
173	27+06.48	49.00	340745.950	2555991.269	716.41
174	27+16.45	49.00	340746.007	2556001.247	716.63
175	0+27.21	49.00	340746.035	2556006.246	716.71

UNPAVED
NON-TRAVERSABLE FLARE
MAX SLOPE 6:1

BACK OF CURB RADIUS = 32.42'
LANDING LENGTH = 4.72'
RADIAL WARNING FIELD AREA = 124.33 S.F.
RADIAL LONG CHORD DIMENSION = 13.67'

TYPE 4B1 RAMP

UNPAVED
NON-TRAVERSABLE FLARE
MAX SLOPE 6:1

SLOPE INTERCEPT

UNPAVED
NON-TRAVERSABLE FLARE
MAX SLOPE 6:1

TYPE 4B1 RAMP

UNPAVED
NON-TRAVERSABLE FLARE
MAX SLOPE 6:1

SLOPE INTERCEPT

STATION & OFFSET TABLE					
POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION
152	26+21.98	44.58	340749.882	2555906.747	718.56
153	26+26.98	44.58	340749.911	2555911.747	718.48
154	26+42.32	44.58	340749.999	2555927.087	717.74
155	26+46.08	44.58	340750.020	2555930.851	717.68
160	26+21.98	49.58	340744.882	2555906.776	718.64
161	26+26.98	49.58	340744.911	2555911.776	718.56
162	26+42.32	49.58	340744.999	2555927.115	717.81
163	26+48.99	49.58	340745.037	2555933.786	717.78
164	26+51.76	49.58	340745.053	2555936.557	717.74

841 (OZINGA)

R/W

R/W

BM#15

LEGEND

- PEDESTRIAN PUSH BUTTON
- DETECTABLE WARNING FIELD (DWF)
- LEVEL LANDING

PROJECT NO: 2050-08-71	HWY: CTH BB	COUNTY: MILWAUKEE	CONSTRUCTION DETAILS - CURB RAMPS	SHEET 31	E

FILE NAME : \\W3027S02\DPPIS\DPW PROFESSIONAL\DATA\HIGHWAY OPERATIONS CONTROL FILE\CENTRAL FILES\2010-2014\CTH BB - W. RAWSON AVE\2050-08-01 S 13TH ST TO W HOWELL AVE\DESIGN\PLANS\2050080130_02.DWG 10/30/2015 5:00 PM
LAYOUT NAME - 09
PLOT BY : HILLIARD, MARC PLOT NAME : PLOT SCALE : 1 IN:10 FT
WISDOT/CADDS SHEET 42

2

N

W. RAWSON AVENUE (CTH BB)

0.1%

0.1%

0.1%

EL

EL

GUY

GUY

GUY

GUY

R/W

OH

OH

OH

OH

OH

OH

MP

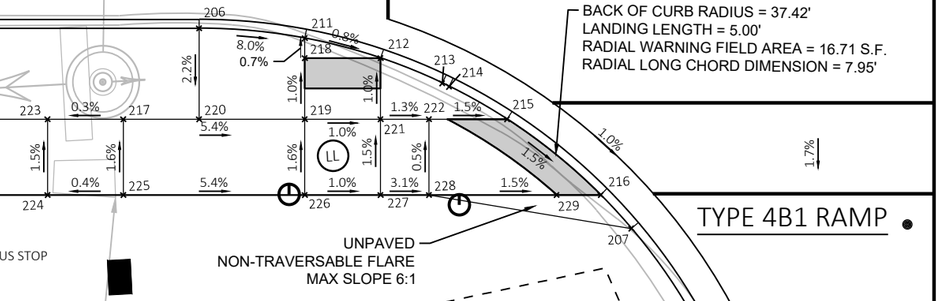
S. 6TH STREET

STATION & OFFSET TABLE					
POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION
206	38+55.24	38.58	340717.879	2557136.686	728.61
207	38+83.76	51.79	340703.132	2557164.452	728.25
211	38+62.22	39.24	340716.841	2557143.621	728.05
212	38+67.22	40.55	340715.257	2557148.542	728.01
213	38+71.29	42.20	340713.370	2557152.505	728.38
214	38+71.74	42.42	340713.128	2557152.943	728.38
215	38+75.56	44.58	340710.778	2557156.650	727.93
216	38+81.73	49.58	340705.448	2557162.544	727.86
217	38+55.24	44.58	340712.161	2557131.366	728.75
218	38+62.22	40.55	340715.530	2557143.549	728.06
219	38+62.22	44.58	340711.506	2557143.329	728.10
220	38+55.24	44.58	340711.888	2557136.358	728.48
221	38+67.22	44.58	340711.233	2557148.322	728.05
222	38+70.41	44.58	340711.059	2557151.513	728.01
223	38+50.24	44.58	340712.434	2557126.373	728.73
224	38+50.24	44.58	340707.441	2557126.100	728.81
225	38+55.24	49.58	340707.168	2557131.093	728.83
226	38+62.22	49.58	340706.514	2557143.056	728.18
227	38+67.22	49.58	340706.241	2557148.049	728.13
228	38+70.41	49.58	340706.066	2557151.240	728.03
229	38+78.83	49.58	340705.607	2557159.640	727.90

TYPE 2 RAMP

BACK OF CURB RADIUS = 37.42'
LANDING LENGTH = 5.00'
RADIAL WARNING FIELD AREA = 16.71 S.F.
RADIAL LONG CHORD DIMENSION = 7.95'

TYPE 4B1 RAMP



LEGEND

- PEDESTRIAN PUSH BUTTON
- DETECTABLE WARNING FIELD (DWF)
- LL LEVEL LANDING

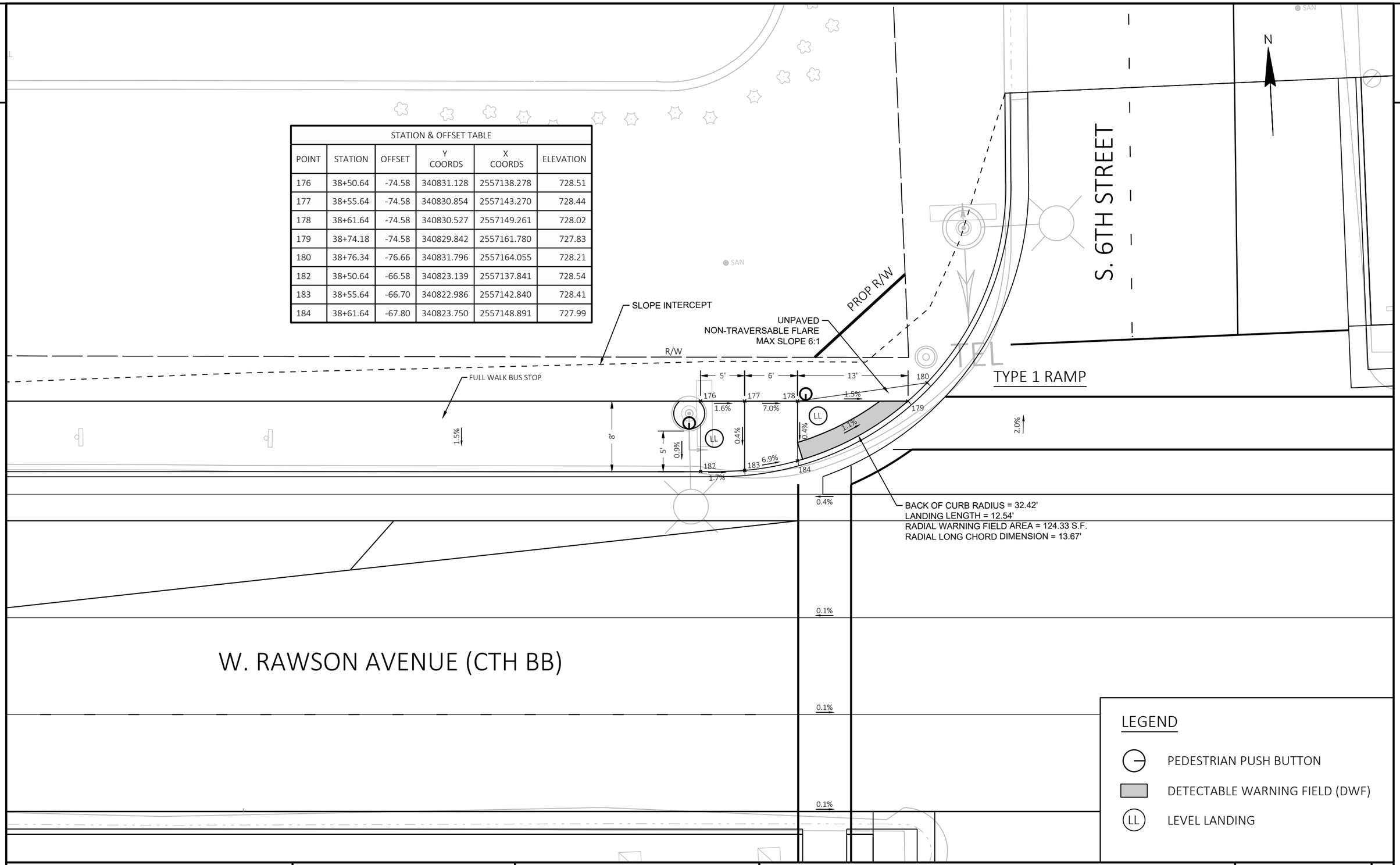
PROJECT NO: 2050-08-71	HWY: CTH BB	COUNTY: MILWAUKEE	CONSTRUCTION DETAILS - CURB RAMPS	SHEET 32	E

FILE NAME : \\W3027S02\DPPIS\DPW PROFESSIONAL\DATA\HIGHWAY OPERATIONS CONTROL FILE\CENTRAL FILES\2010-2014\CTH BB - W. RAWSON AVE\2050-08-01 S 13TH ST TO W HOWELL AVE\DESIGN\PLANS\2050080130_02.DWG 10/30/2015 5:00 PM
LAYOUT NAME - 10

PLOT BY : HILLIARD, MARC PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 42

STATION & OFFSET TABLE					
POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION
176	38+50.64	-74.58	340831.128	2557138.278	728.51
177	38+55.64	-74.58	340830.854	2557143.270	728.44
178	38+61.64	-74.58	340830.527	2557149.261	728.02
179	38+74.18	-74.58	340829.842	2557161.780	727.83
180	38+76.34	-76.66	340831.796	2557164.055	728.21
182	38+50.64	-66.58	340823.139	2557137.841	728.54
183	38+55.64	-66.70	340822.986	2557142.840	728.41
184	38+61.64	-67.80	340823.750	2557148.891	727.99



PROJECT NO: 2050-08-71	HWY: CTH BB	COUNTY: MILWAUKEE	CONSTRUCTION DETAILS - CURB RAMPS	SHEET 33	E

FILE NAME : \\W3027S02\DPPIS\DPW PROFESSIONAL\DATA\HIGHWAY OPERATIONS CONTROL FILE\CENTRAL FILES\2010-2014\CTH BB - W. RAWSON AVE\2050-08-01 S 13TH ST TO W HOWELL AVE\DESIGN\PLANS\2050080173_02.DWG
LAYOUT NAME - 11
PLOTTED : 10/30/2015 5:00 PM
PLOT BY : HILLIARD, MARC
PLOT NAME :
PLOT SCALE : 1 IN:10 FT
WISDOT/CADDS SHEET 42

2

N

W. RAWSON AVENUE (CTH BB)

TYPE 2 RAMP

TYPE 4B1 RAMP

BACK OF CURB RADIUS = 37.42'
LANDING LENGTH = 5.00'
RADIAL WARNING FIELD AREA = 16.72 S.F.
RADIAL LONG CHORD DIMENSION = 7.95'

UNPAVED
NON-TRAVERSABLE FLARE
MAX SLOPE 6:1

UNPAVED
NON-TRAVERSABLE FLARE
MAX SLOPE 6:1

SLOPE INTERCEPT

PROP R/W

S. 6TH STREET

FIBER MARKER

FIBER OPTIC HANDHOLE

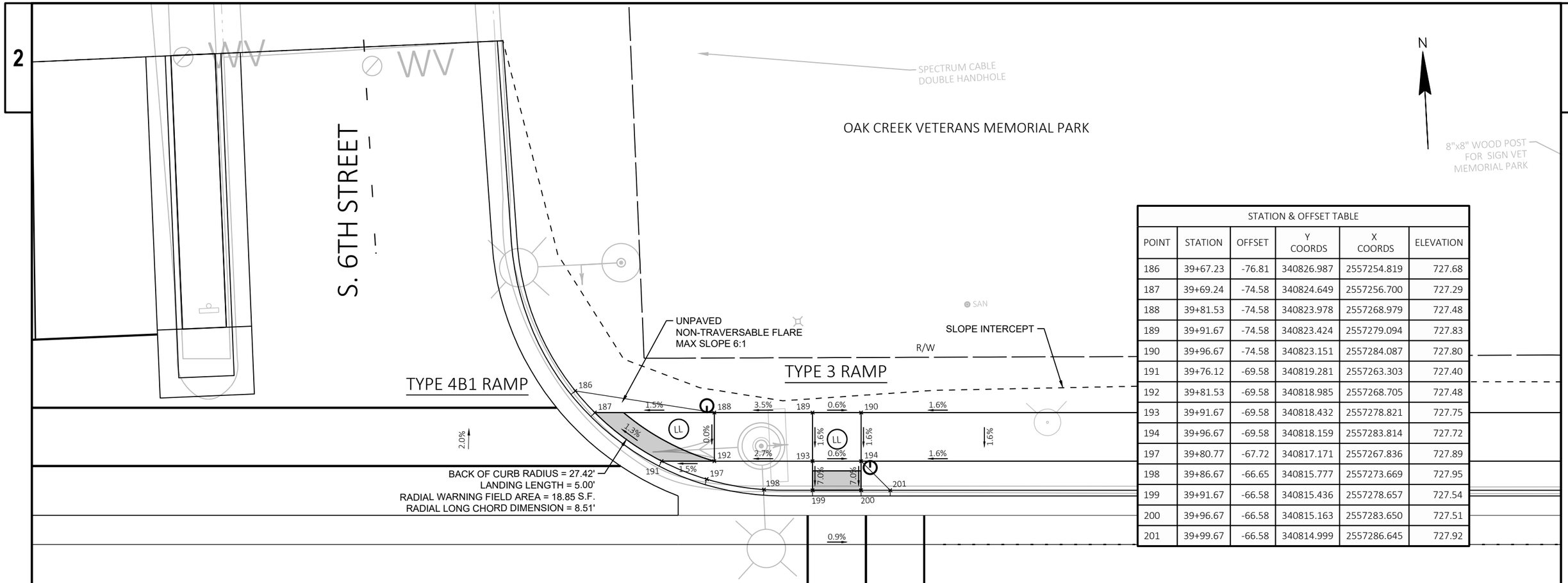
STATION & OFFSET TABLE					
POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION
234	39+78.50	52.00	340697.750	2557259.032	728.17
235	39+83.61	49.58	340700.042	2557261.367	727.76
236	39+86.88	44.58	340704.697	2557267.807	727.70
237	39+89.18	43.21	340705.942	2557270.177	728.09
238	39+89.60	42.97	340706.156	2557270.629	728.09
239	39+92.03	41.80	340707.196	2557273.096	727.64
240	39+97.03	39.99	340708.725	2557278.188	727.58
241	40+00.03	39.28	340709.276	2557281.222	727.97
243	39+97.03	43.80	340706.922	2557278.089	727.61
244	39+92.03	44.58	340704.416	2557272.944	727.74
245	39+97.03	44.58	340704.143	2557277.937	727.70
246	40+07.20	44.58	340703.587	2557288.099	728.27
247	40+12.20	44.58	340703.314	2557293.091	728.22
248	39+83.61	49.58	340699.883	2557264.271	727.78
249	39+92.03	49.58	340699.423	2557272.671	727.81
250	39+97.03	49.58	340699.150	2557277.664	727.76
251	40+07.20	49.58	340698.594	2557287.826	728.34
252	40+12.20	49.58	340698.321	2557292.818	728.30

LEGEND

- PEDESTRIAN PUSH BUTTON
- DETECTABLE WARNING FIELD (DWF)
- LEVEL LANDING

PROJECT NO: 2050-08-71	HWY: CTH BB	COUNTY: MILWAUKEE	CONSTRUCTION DETAILS - CURB RAMPS	SHEET 34	E

FILE NAME : \\W3027S02\DPPI$\DPW PROFESSIONAL\DATA\HIGHWAY OPERATIONS CONTROL FILE\CENTRAL FILES\2010-2014\CTH BB - W. RAWSON AVE\2050-08-01 S 13TH ST TO W HOWELL AVE\DESIGN\PLANS\2050-08-01_CURB RAMPS.dgn 10/30/2015 5:01 PM
LAYOUT NAME - 12
PLOT BY : HILLIARD, MARC PLOT NAME : PLOT SCALE : 1 IN:10 FT
WISDOT/CADDS SHEET 42



STATION & OFFSET TABLE					
POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION
186	39+67.23	-76.81	340826.987	2557254.819	727.68
187	39+69.24	-74.58	340824.649	2557256.700	727.29
188	39+81.53	-74.58	340823.978	2557268.979	727.48
189	39+91.67	-74.58	340823.424	2557279.094	727.83
190	39+96.67	-74.58	340823.151	2557284.087	727.80
191	39+76.12	-69.58	340819.281	2557263.303	727.40
192	39+81.53	-69.58	340818.985	2557268.705	727.48
193	39+91.67	-69.58	340818.432	2557278.821	727.75
194	39+96.67	-69.58	340818.159	2557283.814	727.72
197	39+80.77	-67.72	340817.171	2557267.836	727.89
198	39+86.67	-66.65	340815.777	2557273.669	727.95
199	39+91.67	-66.58	340815.436	2557278.657	727.54
200	39+96.67	-66.58	340815.163	2557283.650	727.51
201	39+99.67	-66.58	340814.999	2557286.645	727.92

W. RAWSON AVENUE (CTH BB)

LEGEND

- PEDESTRIAN PUSH BUTTON
- DETECTABLE WARNING FIELD (DWF)
- LEVEL LANDING

PROJECT NO: 2050-08-71	HWY: CTH BB	COUNTY: MILWAUKEE	CONSTRUCTION DETAILS - CURB RAMPS	SHEET 35	E

FILE NAME : \\W3027S02\DPPIS\DPW PROFESSIONAL\DATA\HIGHWAY OPERATIONS CONTROL FILE\CENTRAL FILES\2010-2014\CTH BB - W. RAWSON AVE\2050-08-01 S 13TH ST TO W HOWELL AVE\DESIGN\PLANS\2050801_SHEET05.DWG 10/30/2015 5:01 PM
LAYOUT NAME - 13
PLOT BY : HILLIARD, MARC PLOT NAME : PLOT SCALE : 1 IN:10 FT
WISDOT/CADDS SHEET 42

2

N

W. RAWSON AVENUE (CTH BB)

STATION & OFFSET TABLE					
POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION
259	44+87.47	43.58	340685.367	2557769.517	724.97
260	44+95.47	43.58	340685.216	2557777.516	725.27
261	45+00.47	43.58	340685.122	2557782.515	725.35
262	44+87.47	48.58	340680.368	2557769.423	725.04
263	44+95.47	48.58	340680.217	2557777.421	725.34
264	45+00.47	48.58	340680.123	2557782.421	725.42

TYPE 3 RAMP

TYPE 3 RAMP

ASPH

CONC

253 1.6% 254 3.1% 255 0.6% 259 0.2% 3.8% 260 1.6% 261

256 1.6% 257 3.2% 258 0.6% 262 0.2% 3.8% 1.5% 263 1.4% 264

1.5% 1.6% LL 1.6% 1.5% 1.5% 1.5% 1.5% LL 1.5%

R/W

R/W

BM#18

SLOPE INTERCEPT

1.1%

ASPH

ASPH

TLE

2' STONE

501 (FARM & FLEET)

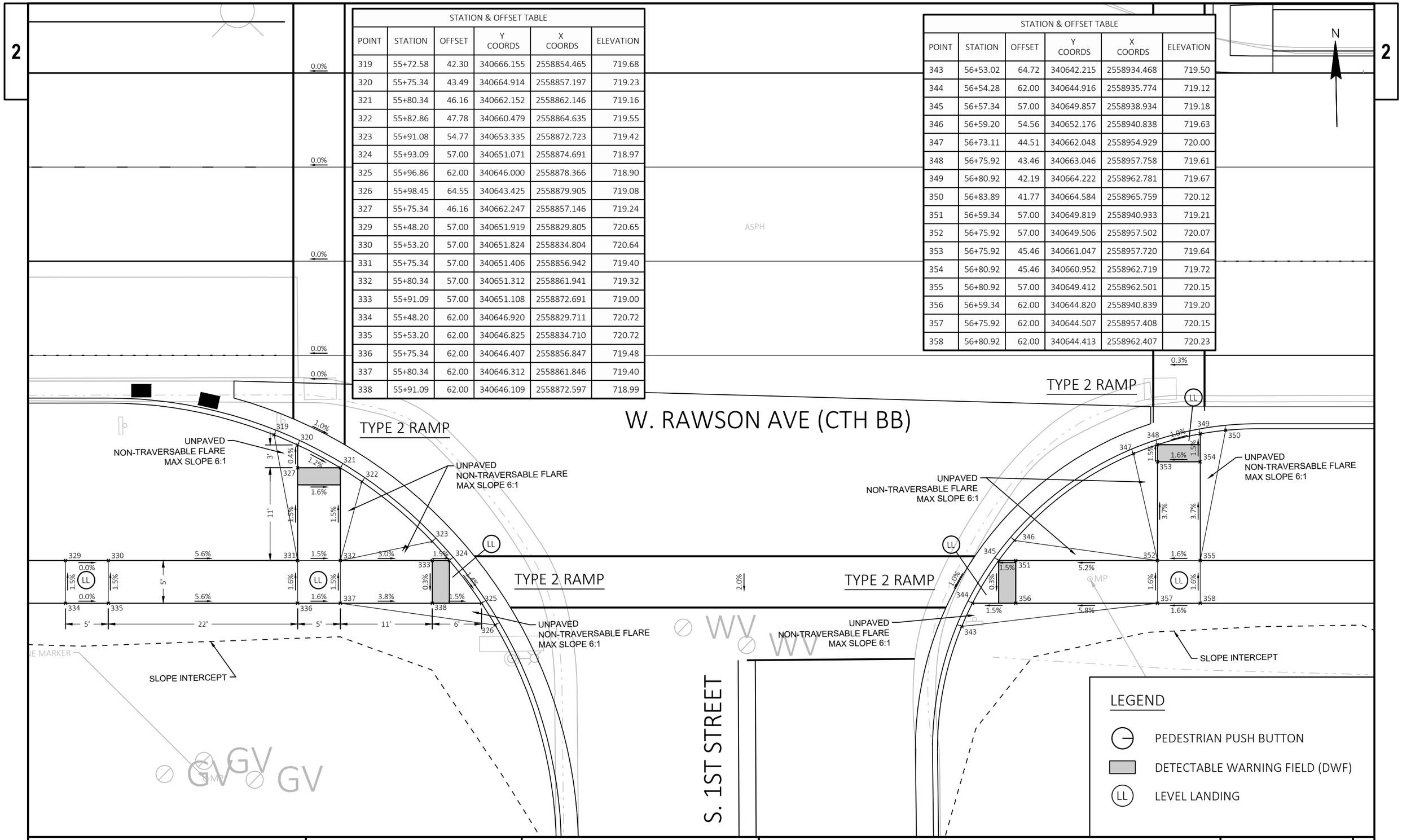
STATION & OFFSET TABLE					
POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION
253	44+12.22	43.58	340686.788	2557694.281	725.62
254	44+17.22	43.58	340686.694	2557699.280	725.54
255	44+25.22	43.58	340686.543	2557707.279	725.29
256	44+12.22	48.58	340681.789	2557694.187	725.70
257	44+17.22	48.58	340681.695	2557699.186	725.62
258	44+25.22	48.58	340681.544	2557707.184	725.37

LEGEND

- PEDESTRIAN PUSH BUTTON
- DETECTABLE WARNING FIELD (DWF)
- LL — LEVEL LANDING

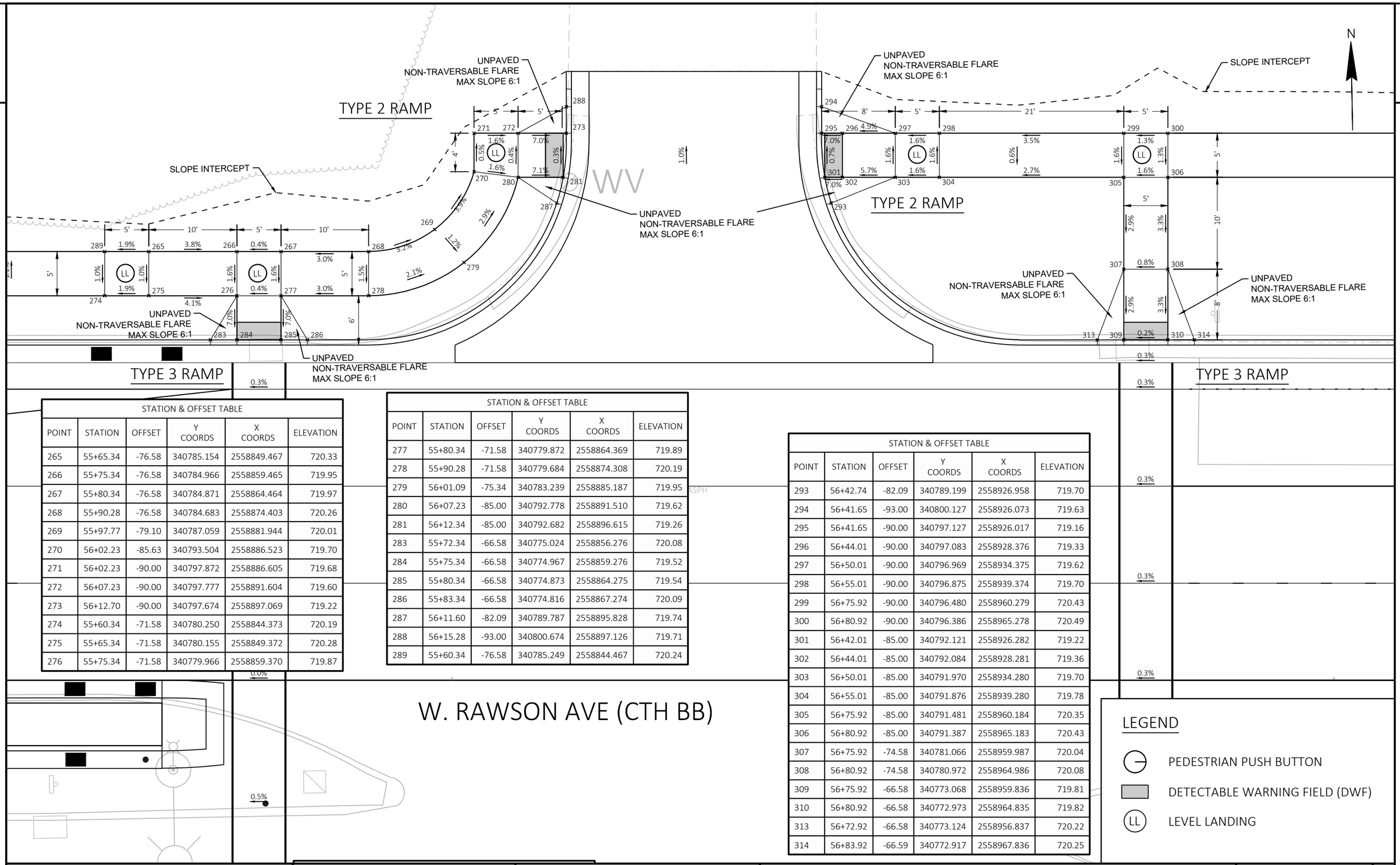
STATION & OFFSET TABLE					
POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION
319	55+72.58	42.30	340666.155	2558854.465	719.68
320	55+75.34	43.49	340664.914	2558857.197	719.23
321	55+80.34	46.16	340662.152	2558862.146	719.16
322	55+82.86	47.78	340660.479	2558864.635	719.55
323	55+91.08	54.77	340653.335	2558872.723	719.42
324	55+93.09	57.00	340651.071	2558874.691	718.97
325	55+96.86	62.00	340646.000	2558878.366	718.90
326	55+98.45	64.55	340643.425	2558879.905	719.08
327	55+75.34	46.16	340662.247	2558857.146	719.24
329	55+48.20	57.00	340651.919	2558829.805	720.65
330	55+53.20	57.00	340651.824	2558834.804	720.64
331	55+75.34	57.00	340651.406	2558856.942	719.40
332	55+80.34	57.00	340651.312	2558861.941	719.32
333	55+91.09	57.00	340651.108	2558872.691	719.00
334	55+48.20	62.00	340646.920	2558829.711	720.72
335	55+53.20	62.00	340646.825	2558834.710	720.72
336	55+75.34	62.00	340646.407	2558856.847	719.48
337	55+80.34	62.00	340646.312	2558861.846	719.40
338	55+91.09	62.00	340646.109	2558872.597	718.99

STATION & OFFSET TABLE					
POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION
343	56+53.02	64.72	340642.215	2558934.468	719.50
344	56+54.28	62.00	340644.916	2558935.774	719.12
345	56+57.34	57.00	340649.857	2558938.934	719.18
346	56+59.20	54.56	340652.176	2558940.838	719.63
347	56+73.11	44.51	340662.048	2558954.929	720.00
348	56+75.92	43.46	340663.046	2558957.758	719.61
349	56+80.92	42.19	340664.222	2558962.781	719.67
350	56+83.89	41.77	340664.584	2558965.759	720.12
351	56+59.34	57.00	340649.819	2558940.933	719.21
352	56+75.92	57.00	340649.506	2558957.502	720.07
353	56+75.92	45.46	340661.047	2558957.720	719.64
354	56+80.92	45.46	340660.952	2558962.719	719.72
355	56+80.92	57.00	340649.412	2558962.501	720.15
356	56+59.34	62.00	340644.820	2558940.839	719.20
357	56+75.92	62.00	340644.507	2558957.408	720.15
358	56+80.92	62.00	340644.413	2558962.407	720.23



PROJECT NO: 2050-08-71	HWY: CTH BB	COUNTY: MILWAUKEE	CONSTRUCTION DETAILS - CURB RAMPS	SHEET 37	E

FILE NAME : \\W3027S02\DPPI$\DPW PROFESSIONAL\DATA\HIGHWAY OPERATIONS CONTROL FILE\CENTRAL FILES\2010-2014\CTH BB - W. RAWSON AVE\2050-08-01 S 13TH ST TO W HOWELL AVE\DESIGN\PLANS\2050080130_02.DWG
LAYOUT NAME - 15
10/30/2014 5:01 PM
PLOT BY : HILLIARD, MARC
PLOT NAME :
PLOT SCALE : 1 IN:10 FT
WISDOT/CADDS SHEET 42



STATION & OFFSET TABLE

POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION
265	55+65.34	-76.58	340785.154	2558849.467	720.33
266	55+75.34	-76.58	340784.966	2558859.465	719.95
267	55+80.34	-76.58	340784.871	2558864.464	719.97
268	55+90.28	-76.58	340784.683	2558874.403	720.26
269	55+97.77	-79.10	340787.059	2558881.944	720.01
270	56+02.23	-85.63	340793.504	2558886.523	719.70
271	56+02.23	-90.00	340797.872	2558886.605	719.68
272	56+07.23	-90.00	340797.777	2558891.604	719.60
273	56+12.70	-90.00	340797.674	2558897.069	719.22
274	55+60.34	-71.58	340780.250	2558844.373	720.19
275	55+65.34	-71.58	340780.155	2558849.372	720.28
276	55+75.34	-71.58	340779.966	2558859.370	719.87

STATION & OFFSET TABLE

POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION
277	55+80.34	-71.58	340779.872	2558864.369	719.89
278	55+90.28	-71.58	340779.684	2558874.308	720.19
279	56+01.09	-75.34	340783.239	2558885.187	719.95
280	56+07.23	-85.00	340792.778	2558891.510	719.62
281	56+12.34	-85.00	340792.682	2558896.615	719.26
283	55+72.34	-66.58	340775.024	2558856.276	720.08
284	55+75.34	-66.58	340774.967	2558859.276	719.52
285	55+80.34	-66.58	340774.873	2558864.275	719.54
286	55+83.34	-66.58	340774.816	2558867.274	720.09
287	56+11.60	-82.09	340789.787	2558895.828	719.74
288	56+15.28	-93.00	340800.674	2558897.126	719.71
289	55+60.34	-76.58	340785.249	2558844.467	720.24

STATION & OFFSET TABLE

POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION
293	56+42.74	-82.09	340789.199	2558926.958	719.70
294	56+41.65	-93.00	340800.127	2558926.073	719.63
295	56+41.65	-90.00	340797.127	2558926.017	719.16
296	56+44.01	-90.00	340797.083	2558928.376	719.33
297	56+50.01	-90.00	340796.969	2558934.375	719.62
298	56+55.01	-90.00	340796.875	2558939.374	719.70
299	56+75.92	-90.00	340796.480	2558960.279	720.43
300	56+80.92	-90.00	340796.386	2558965.278	720.49
301	56+42.01	-85.00	340792.121	2558926.282	719.22
302	56+44.01	-85.00	340792.084	2558928.281	719.36
303	56+50.01	-85.00	340791.970	2558934.280	719.70
304	56+55.01	-85.00	340791.876	2558939.280	719.78
305	56+75.92	-85.00	340791.481	2558960.184	720.35
306	56+80.92	-85.00	340791.387	2558965.183	720.43
307	56+75.92	-74.58	340781.066	2558959.987	720.04
308	56+80.92	-74.58	340780.972	2558964.986	720.08
309	56+75.92	-66.58	340773.068	2558959.836	719.81
310	56+80.92	-66.58	340772.973	2558964.835	719.82
313	56+72.92	-66.58	340773.124	2558956.837	720.22
314	56+83.92	-66.59	340772.917	2558967.836	720.25

PROJECT NO: 2050-08-71	HWY: CTH BB	COUNTY: MILWAUKEE	CONSTRUCTION DETAILS - CURB RAMPS	SHEET 38	E

FILE NAME : \\W3027S02\DPPIS\DPW PROFESSIONAL\DATA\HIGHWAY OPERATIONS CONTROL FILE\CENTRAL FILES\2010-2014\CTH BB - W. RAWSON AVE\2050-08-01 S 13TH ST TO W HOWELL AVE\DESIGN\PLANS\2050080130_02.DWG
LAYOUT NAME - 16
10/30/2015 5:02 PM
PLOT BY : HILLIARD, MARC
PLOT NAME :
PLOT SCALE : 1 IN:10 FT
WISDOT/CADDS SHEET 42

STATION & OFFSET TABLE					
POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION
359	58+82.77	-90.00	340792.573	2559167.092	721.22
360	58+87.77	-90.00	340792.479	2559172.091	721.17
361	58+96.13	-90.00	340792.321	2559180.449	721.06
363	58+82.77	-85.00	340787.574	2559166.998	721.14
364	58+87.77	-85.00	340787.480	2559171.997	721.09
365	58+95.77	-85.00	340787.329	2559179.995	721.01

150 W. RAWSON AVE

N

UNPAVED NON-TRAVERSABLE FLARE MAX SLOPE 6:1

TYPE 2 RAMP

5' 8'

359 360 361

1.0% 1.3%

1.6% 1.6% 1.1%

5'

1.0% 1.0%

363 364 365

1.3%

ASPH

UNPAVED NON-TRAVERSABLE FLARE MAX SLOPE 6:1

5' STONE

TYPE 2 RAMP

UNPAVED NON-TRAVERSABLE FLARE MAX SLOPE 6:1

AT&T HANDHOLE

SLOPE INTERCEPT

8' 5'

368 369 370 371

1.4% 1.4%

1.3% 1.3% 1.3%

1.5%

5'

1.4% 1.4%

373 374 375 376

STATION & OFFSET TABLE					
POINT	STATION	OFFSET	Y COORDS	X COORDS	ELEVATION
368	59+24.24	-90.00	340791.790	2559208.558	721.40
369	59+26.58	-90.00	340791.746	2559210.895	721.43
370	59+32.58	-90.00	340791.633	2559216.894	721.52
371	59+37.58	-90.00	340791.538	2559221.893	721.59
373	59+24.58	-85.00	340786.785	2559208.801	721.34
374	59+26.58	-85.00	340786.747	2559210.801	721.39
375	59+32.58	-85.00	340786.633	2559216.800	721.45
376	59+37.58	-85.00	340786.539	2559221.799	721.52

ASPH

W. RAWSON AVE (CTH BB)

LEGEND

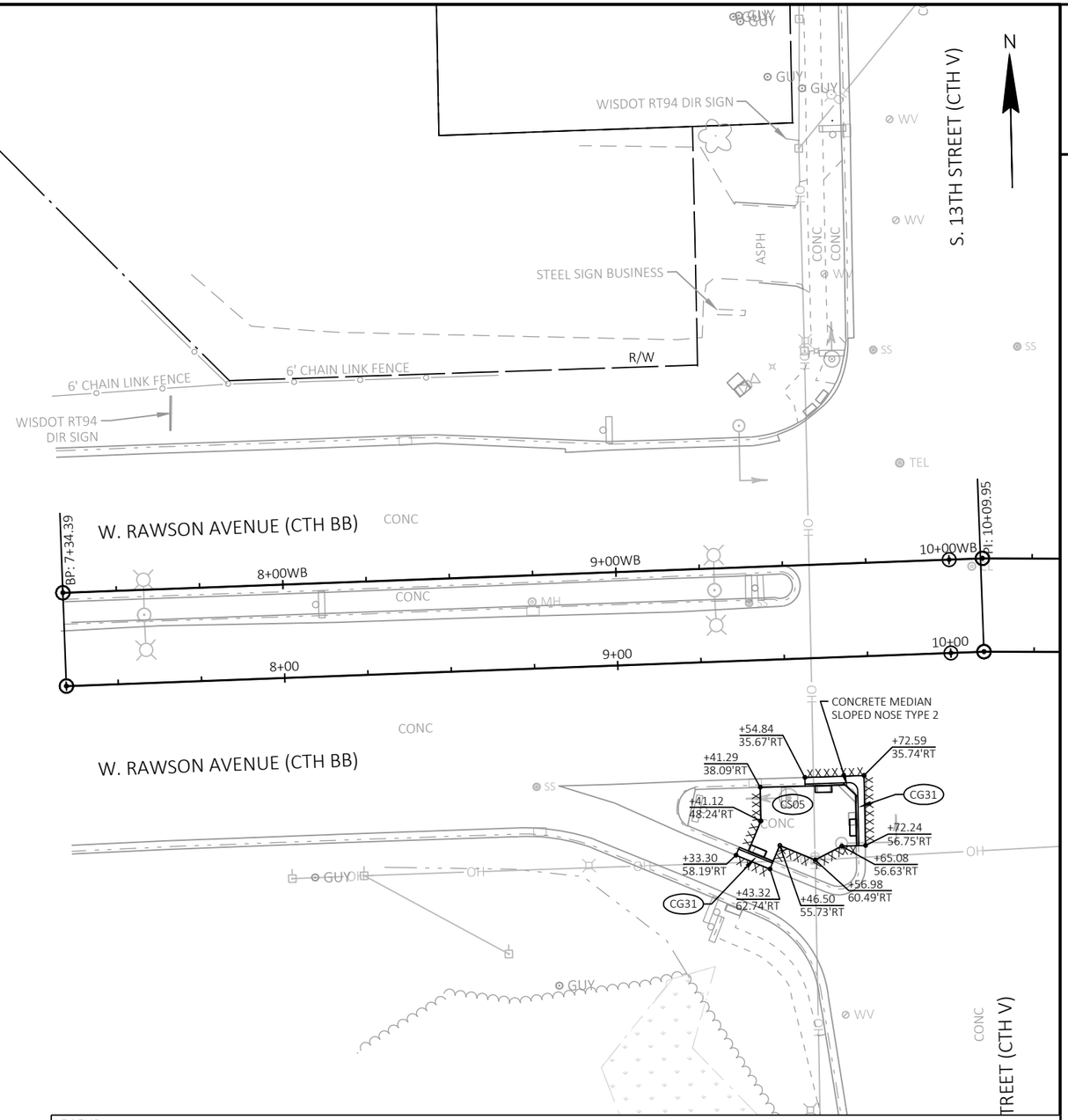
- PEDESTRIAN PUSH BUTTON
- DETECTABLE WARNING FIELD (DWF)
- LL — LEVEL LANDING

PROJECT NO: 2050-08-71	HWY: CTH BB	COUNTY: MILWAUKEE	CONSTRUCTION DETAILS - CURB RAMPS	SHEET 39	E

FILE NAME : \\W3027S02\DPPI$\DPW PROFESSIONAL\DATA\HIGHWAY OPERATIONS CONTROL FILE\CENTRAL FILES\2010-2014\CTH BB - W. RAWSON AVE\2050-08-01 S 13TH ST TO W HOWELL AVE\DESIGN\PLANS\2050080130_CP2.DWG 10/30/2014 5:02 PM
LAYOUT NAME - 17

PLOT BY : HILLIARD, MARC PLOT NAME : PLOT SCALE : 1 IN:10 FT

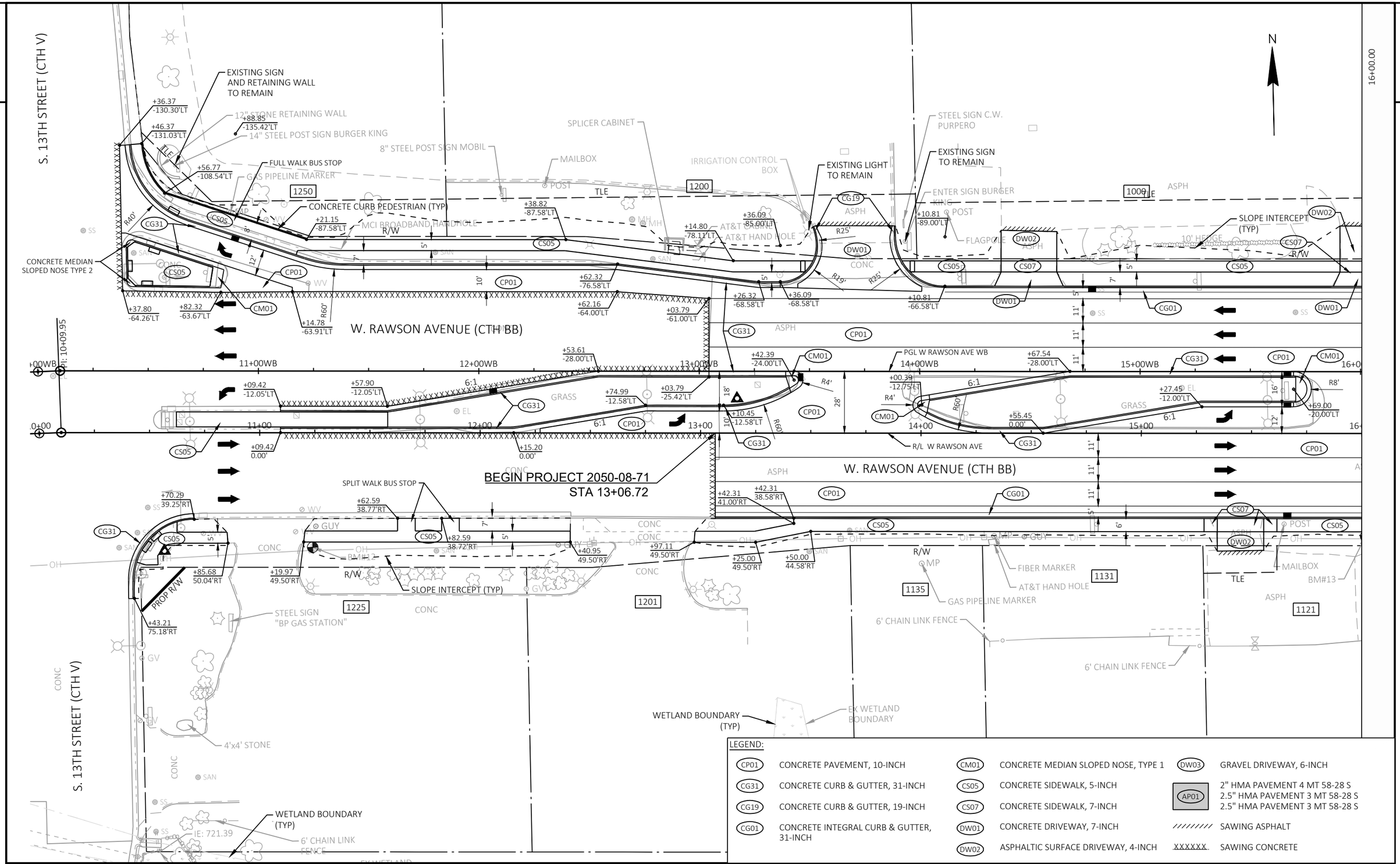
WISDOT/CADDS SHEET 42



LEGEND:

CP01	CONCRETE PAVEMENT, 10-INCH	CM01	CONCRETE MEDIAN SLOPED NOSE, TYPE 1	DW03	GRAVEL DRIVEWAY, 6-INCH
CG31	CONCRETE CURB & GUTTER, 31-INCH	CS05	CONCRETE SIDEWALK, 5-INCH	AP01	2" HMA PAVEMENT 4 MT 58-28 S 2.5" HMA PAVEMENT 3 MT 58-28 S 2.5" HMA PAVEMENT 3 MT 58-28 S
CG19	CONCRETE CURB & GUTTER, 19-INCH	CS07	CONCRETE SIDEWALK, 7-INCH		
CG01	CONCRETE INTEGRAL CURB & GUTTER, 31-INCH	DW01	CONCRETE DRIVEWAY, 7-INCH	////////	SAWING ASPHALT
		DW02	ASPHALTIC SURFACE DRIVEWAY, 4-INCH	XXXXXX	SAWING CONCRETE

PROJECT NO: 2050-08-71	HWY: CTH BB	COUNTY: MILWAUKEE	PLAN DETAILS	SHEET 40	E

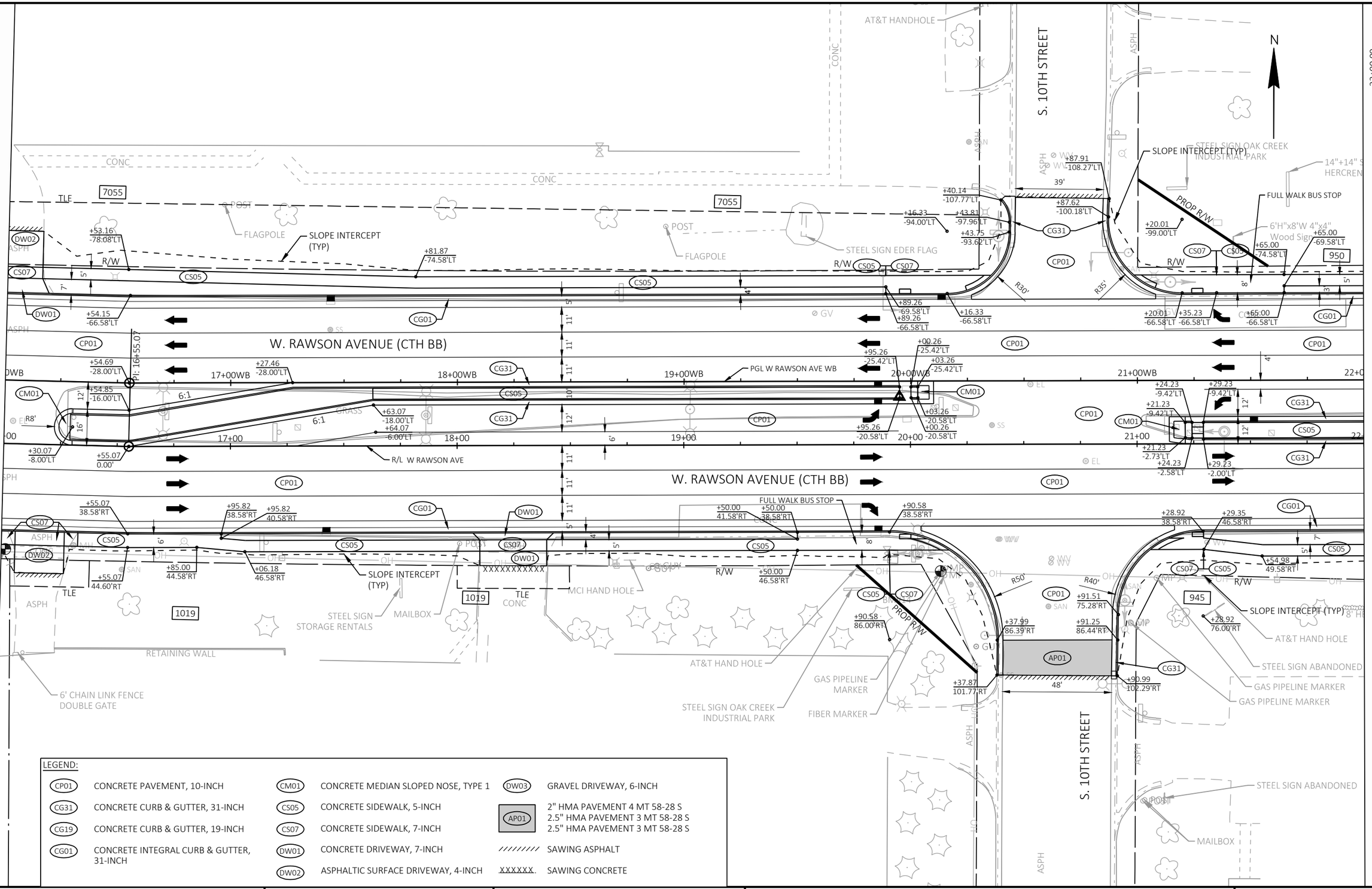


LEGEND:

CP01	CONCRETE PAVEMENT, 10-INCH	CM01	CONCRETE MEDIAN SLOPED NOSE, TYPE 1	DW03	GRAVEL DRIVEWAY, 6-INCH
CG31	CONCRETE CURB & GUTTER, 31-INCH	CS05	CONCRETE SIDEWALK, 5-INCH	AP01	2" HMA PAVEMENT 4 MT 58-28 S 2.5" HMA PAVEMENT 3 MT 58-28 S 2.5" HMA PAVEMENT 3 MT 58-28 S
CG19	CONCRETE CURB & GUTTER, 19-INCH	CS07	CONCRETE SIDEWALK, 7-INCH		
CG01	CONCRETE INTEGRAL CURB & GUTTER, 31-INCH	DW01	CONCRETE DRIVEWAY, 7-INCH		SAWING ASPHALT
		DW02	ASPHALTIC SURFACE DRIVEWAY, 4-INCH		SAWING CONCRETE

PROJECT NO: 2050-08-71	HWY: CTH BB	COUNTY: MILWAUKEE	PLAN DETAILS	SHEET 41	E

2



LEGEND:

CP01	CONCRETE PAVEMENT, 10-INCH	CM01	CONCRETE MEDIAN SLOPED NOSE, TYPE 1	DW03	GRAVEL DRIVEWAY, 6-INCH
CG31	CONCRETE CURB & GUTTER, 31-INCH	CS05	CONCRETE SIDEWALK, 5-INCH	AP01	2" HMA PAVEMENT 4 MT 58-28 S 2.5" HMA PAVEMENT 3 MT 58-28 S 2.5" HMA PAVEMENT 3 MT 58-28 S
CG19	CONCRETE CURB & GUTTER, 19-INCH	CS07	CONCRETE SIDEWALK, 7-INCH	////////	SAWING ASPHALT
CG01	CONCRETE INTEGRAL CURB & GUTTER, 31-INCH	DW01	CONCRETE DRIVEWAY, 7-INCH	XXXXXX	SAWING CONCRETE
		DW02	ASPHALTIC SURFACE DRIVEWAY, 4-INCH		

PROJECT NO: 2050-08-71	HWY: CTH BB	COUNTY: MILWAUKEE	PLAN DETAILS	SHEET 42	E

FILE NAME : \\W3027S02\DPPI$\DPW PROFESSIONAL\DATA\HIGHWAY OPERATIONS CONTROL FILE\CENTRAL FILES\2010-2014\CTH BB - W. RAWSON AVE\2050-08-01 S 13TH ST TO W HOWELL AVE\DESIGN\PLANS\2050080130_2016 6:27 PM
LAYOUT NAME - 02
PLOT BY : HILLIARD, MARC
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2

N

28+00.00

22+00.00

W. RAWSON AVENUE (CTH BB)

W. RAWSON AVENUE (CTH BB)

R/L W RAWSON AVE

PGL W RAWSON AVE WB

SLOPE INTERCEPT (TYP)

IRON POST 1' TALL

POST W/ 2 AT&T BOXES

48" SINKHOLE MARKER

GAS PIPELINE MARKER

AT&T CABINET

6' CYCLONE FENCE

I-FIBER HANDHOLE

MAILBOX

GAS PIPELINE MARKER

FIBER MARKER

6' HEDGE

3" STEEL 3' TALL POST

SLOPE INTERCEPT (TYP)

FIBER MARKER

BM#15

3" STEEL 4' TALL POST

DOUBLE GATE FENCE

6' CYCLONE FENCE

945

921

841

950

LEGEND:

CP01	CONCRETE PAVEMENT, 10-INCH	CM01	CONCRETE MEDIAN SLOPED NOSE, TYPE 1	DW03	GRAVEL DRIVEWAY, 6-INCH
CG31	CONCRETE CURB & GUTTER, 31-INCH	CS05	CONCRETE SIDEWALK, 5-INCH	AP01	2" HMA PAVEMENT 4 MT 58-28 S 2.5" HMA PAVEMENT 3 MT 58-28 S 2.5" HMA PAVEMENT 3 MT 58-28 S
CG19	CONCRETE CURB & GUTTER, 19-INCH	CS07	CONCRETE SIDEWALK, 7-INCH	////////	SAWING ASPHALT
CG01	CONCRETE INTEGRAL CURB & GUTTER, 31-INCH	DW01	CONCRETE DRIVEWAY, 7-INCH	XXXXXX	SAWING CONCRETE
		DW02	ASPHALTIC SURFACE DRIVEWAY, 4-INCH		

PROJECT NO: 2050-08-71	HWY: CTH BB	COUNTY: MILWAUKEE	PLAN DETAILS	SHEET 43	E

FILE NAME : \\W3027S02\DPPI$\DPW PROFESSIONAL\DATA\HIGHWAY OPERATIONS CONTROL FILE\CENTRAL FILES\2010-2014\CTH BB - W. RAWSON AVE\2050-08-01 S 13TH ST TO W HOWELL AVE\DESIGN\PLANS\2050-08-71 PLOT PLANS.dgn 10/30/2015 5:27 PM
LAYOUT NAME - 03
PLOT BY : HILLIARD, MARC PLOT NAME : PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

NOTE: SEE SPECIAL PROVISION FOR INFORMATION ABOUT
MINIMUM VERTICAL CLEARANCE UNDER BRIDGE B-40-385

N

2

2

34+00.00

28+00.00

R/W

6' CHAIN LINK FENCE

7000

750

7001

12" LANDSCAPE RETAINING WALL

3' HEDGE

R/W

FIBER MARKER

GUY

MP

GAS PIPELINE MARKER

CONC BRIDGE SUPPORT

SLOPE INTERCEPT (TYP)

18" CONC WING WALL

MWEL

FIBER OPTIC HANDHOLE

+76.36
-66.94'LT

+76.24
-61.94'LT

+76.16
-58.95'LT

+01.31
-64.24'LT

+82.96
-65.60'LT

+82.96
-64.08'LT

+76.85
-65.59'LT

+76.85
-64.08'LT

+86.26
-64.08'LT

+31.73
-61.08'LT

+31.73
-58.08'LT

+97.41
-69.64'LT

CS05

CP01

CG01

CONC

W. RAWSON AVENUE (CTH BB)

+10.44
-19.50'LT

CG31

CG19

29+00WB

30+00WB

31+00WB

32+00WB

33+00WB

PGL W RAWSON AVE WB

34+00

+36.00
-10.00'LT

8:1

GRASS

B-40-385
(EXISTING)

29+00

30+00

31+00

32+00

33+00

R/L W RAWSON AVE

SS

W. RAWSON AVENUE (CTH BB)

CONCRETE CURB PEDESTRIAN (TYP)

+36.99
38.58'RT

+75.64
38.58'RT

PI 29+06.18

PI 32+81.23

+94.84
44.58'RT

+94.84
45.73'RT

+88.18
46.01'RT

+88.18
44.58'RT

+65.00
44.58'RT

+15.00
44.58'RT

+50.00
44.58'RT

+75.64
41.00'RT

+14.04
48.58'RT

+50.00
44.58'RT

+00.00
49.00'RT

EL

SLOPE INTERCEPT (TYP)

CONC SUPPORT FOR BRIDGE

GAS LOCATOR POST

GAS PIPELINE MARKER

18" CONC WING WALL

CONC. STEPS

BM#22

CONTROL BOX

6" STEEL 4' TALL POSTS

LARGE WATER PUMP STATION

OH

R/W

841

735

621

CANADIAN PACIFIC RAILWAY

LEGEND:

CP01	CONCRETE PAVEMENT, 10-INCH	CM01	CONCRETE MEDIAN SLOPED NOSE, TYPE 1	DW03	GRAVEL DRIVEWAY, 6-INCH
CG31	CONCRETE CURB & GUTTER, 31-INCH	CS05	CONCRETE SIDEWALK, 5-INCH	AP01	2" HMA PAVEMENT 4 MT 58-28 S 2.5" HMA PAVEMENT 3 MT 58-28 S 2.5" HMA PAVEMENT 3 MT 58-28 S
CG19	CONCRETE CURB & GUTTER, 19-INCH	CS07	CONCRETE SIDEWALK, 7-INCH		SAWING ASPHALT
CG01	CONCRETE INTEGRAL CURB & GUTTER, 31-INCH	DW01	CONCRETE DRIVEWAY, 7-INCH	XXXXXX	SAWING CONCRETE
		DW02	ASPHALTIC SURFACE DRIVEWAY, 4-INCH		

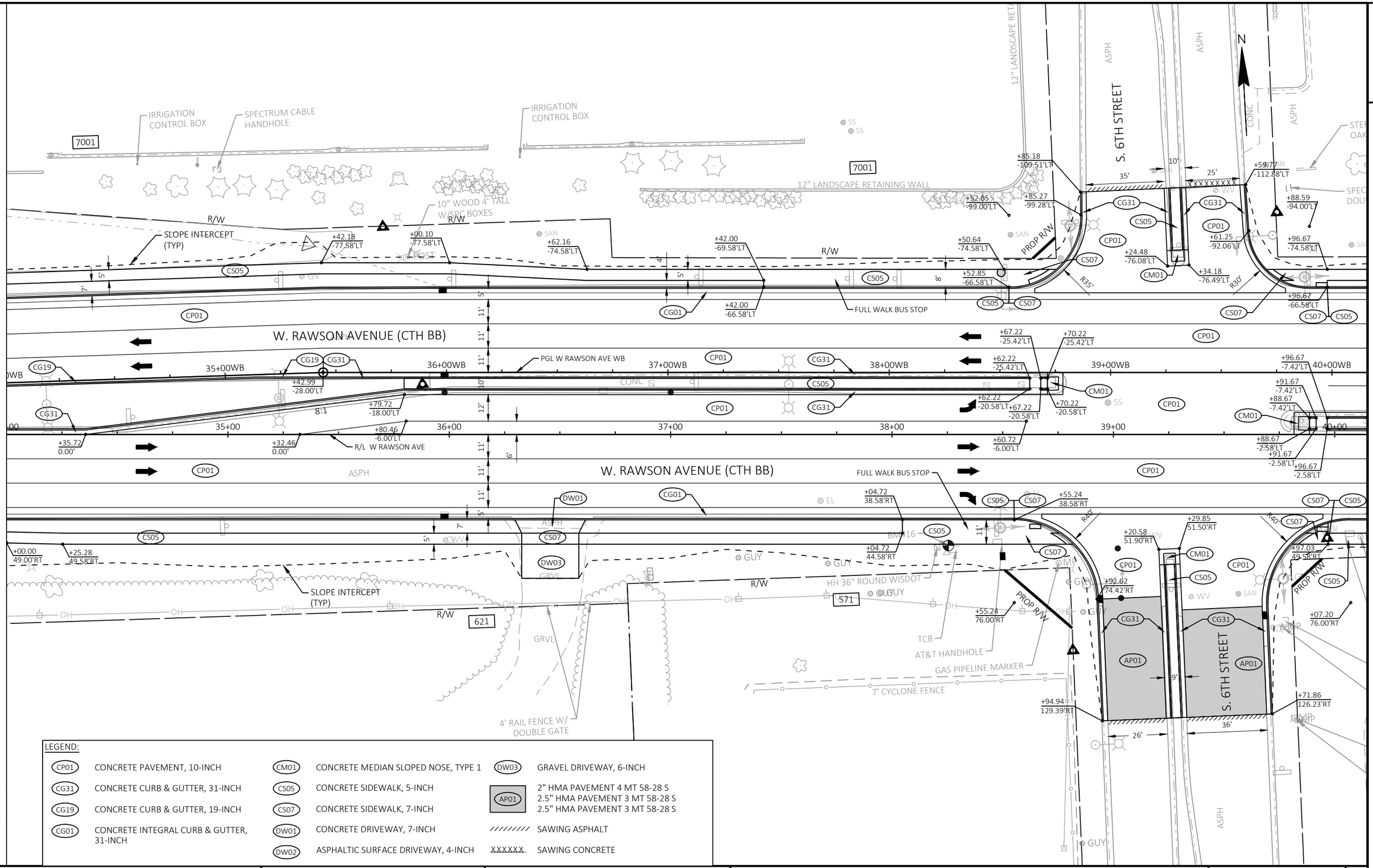
PROJECT NO: 2050-08-71	HWY: CTH BB	COUNTY: MILWAUKEE	PLAN DETAILS	SHEET 44	E

FILE NAME : \\W3027S02\DPPI$\DPW PROFESSIONAL\DATA\HIGHWAY OPERATIONS CONTROL FILE\CENTRAL FILES\2010-2014\CTH BB - W. RAWSON AVE\2050-08-01 S 13TH ST TO W HOWELL AVE\DESIGN\PLANS\2050080130_2016-06-27 PM LAYOUT NAME - 04

PLOT BY : HILLIARD, MARC PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

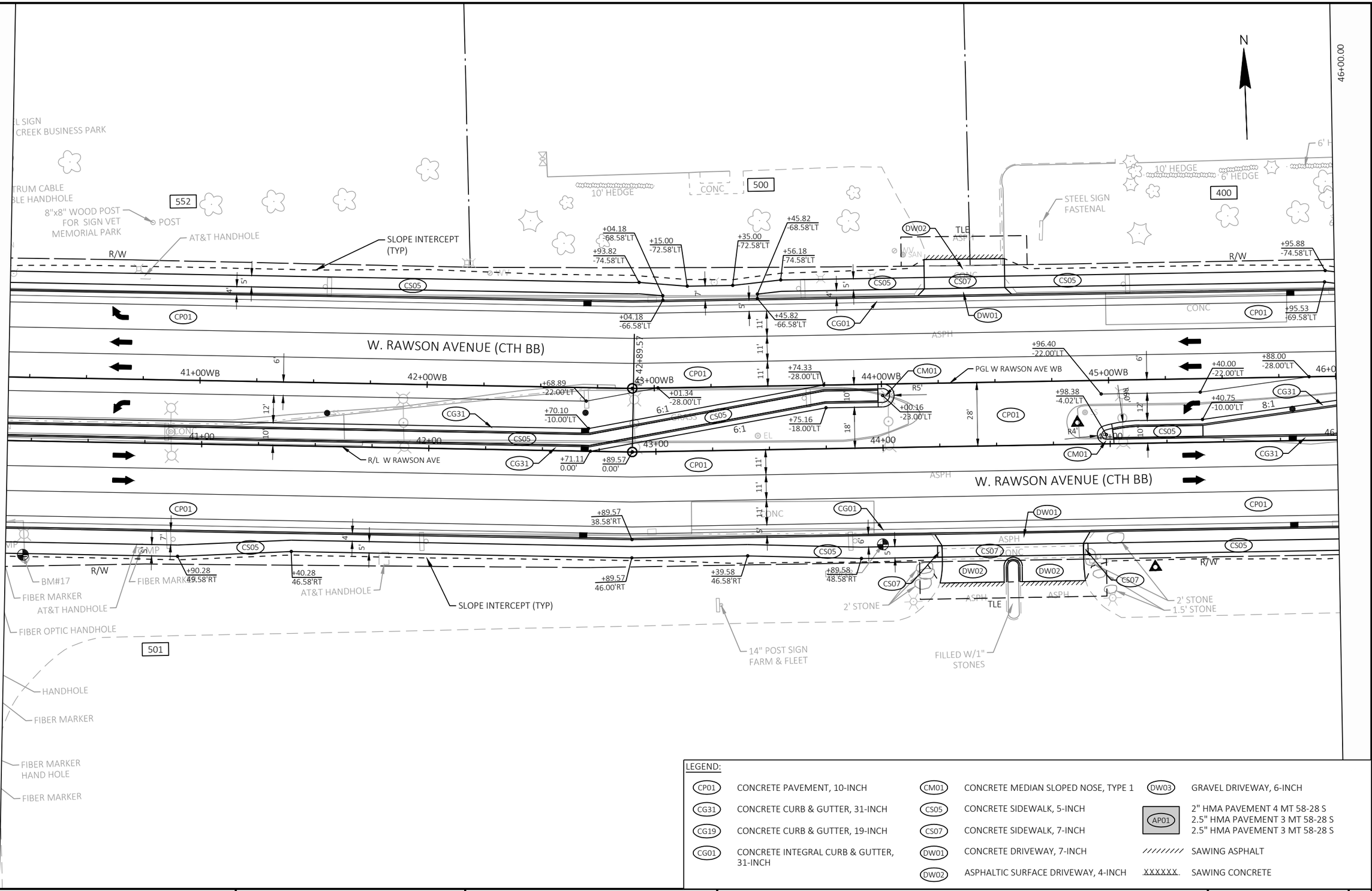
2



PROJECT NO: 2050-08-71	HWY: CTH BB	COUNTY: MILWAUKEE	PLAN DETAILS	SHEET 45	E

FILE NAME : \\W3027S02\DPPIS\DPW PROFESSIONAL\DATA\HIGHWAY OPERATIONS CONTROL FILE\CENTRAL FILES\2010-2014\CTH BB - W. RAWSON AVE\2050-08-01 S 13TH ST TO W HOWELL AVE\DESIGN\PLANS\2050080730_20206.dgn 10/30/2020 6:27 PM
LAYOUT NAME - 05
PLOT BY : HILLIARD, MARC PLOT NAME : PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2



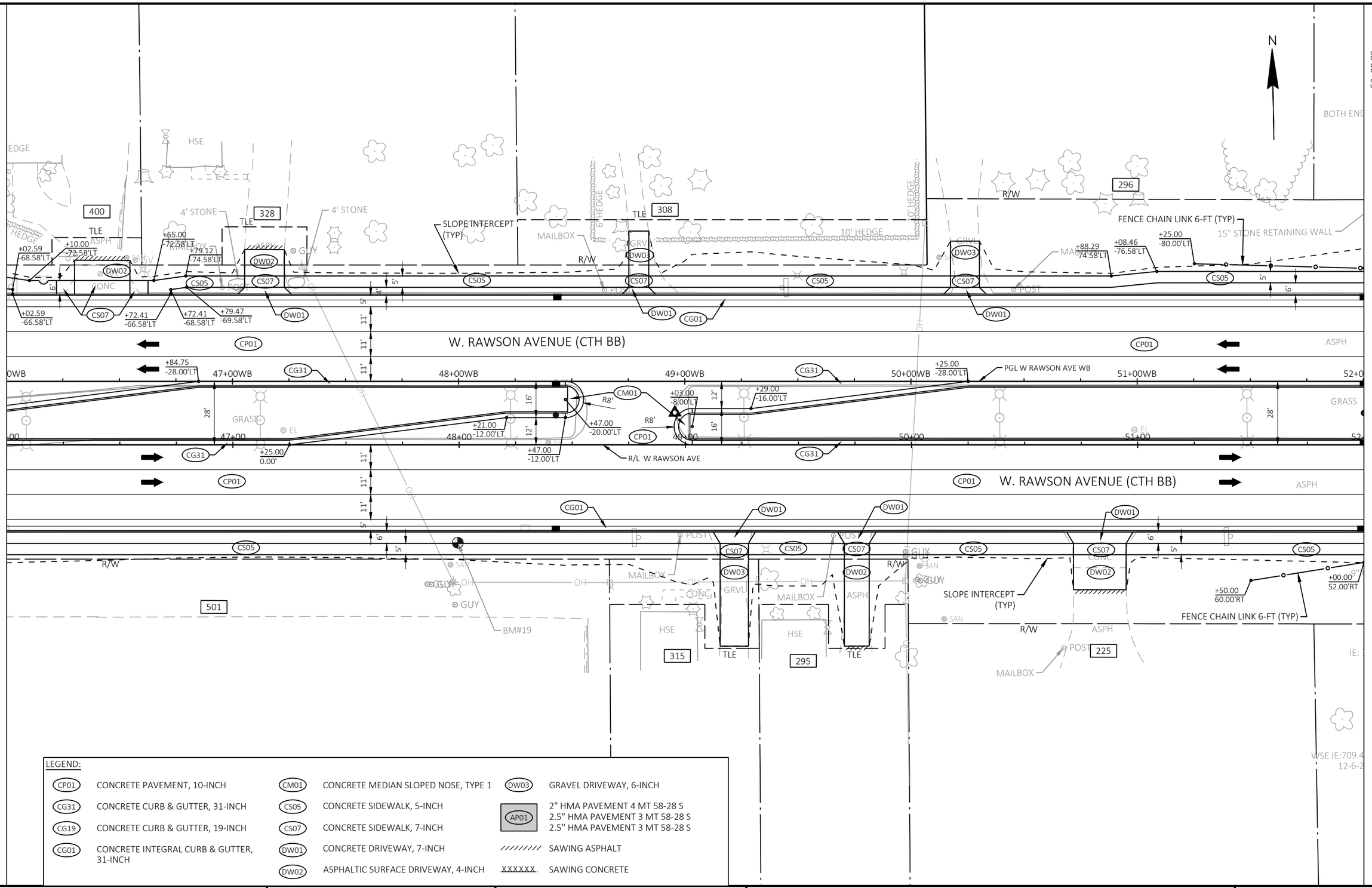
LEGEND:

CP01	CONCRETE PAVEMENT, 10-INCH	CM01	CONCRETE MEDIAN SLOPED NOSE, TYPE 1	DW03	GRAVEL DRIVEWAY, 6-INCH
CG31	CONCRETE CURB & GUTTER, 31-INCH	CS05	CONCRETE SIDEWALK, 5-INCH	AP01	2" HMA PAVEMENT 4 MT 58-28 S 2.5" HMA PAVEMENT 3 MT 58-28 S 2.5" HMA PAVEMENT 3 MT 58-28 S
CG19	CONCRETE CURB & GUTTER, 19-INCH	CS07	CONCRETE SIDEWALK, 7-INCH		
CG01	CONCRETE INTEGRAL CURB & GUTTER, 31-INCH	DW01	CONCRETE DRIVEWAY, 7-INCH	//////////	SAWING ASPHALT
		DW02	ASPHALTIC SURFACE DRIVEWAY, 4-INCH	XXXXXX	SAWING CONCRETE

PROJECT NO: 2050-08-71	HWY: CTH BB	COUNTY: MILWAUKEE	PLAN DETAILS	SHEET 46	E

FILE NAME : \\W3027S02\DPPIS\DPW PROFESSIONAL\DATA\HIGHWAY OPERATIONS CONTROL FILE\CENTRAL FILES\2010-2014\CTH BB - W. RAWSON AVE\2050-08-01 S 13TH ST TO W HOWELL AVE\DESIGN\PLANS\2050-08-71_PLOT.DWG 10/30/2023 6:27 PM
LAYOUT NAME - 06
PLOT BY : HILLIARD, MARC PLOT NAME : PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2



LEGEND:

CP01	CONCRETE PAVEMENT, 10-INCH	CM01	CONCRETE MEDIAN SLOPED NOSE, TYPE 1	DW03	GRAVEL DRIVEWAY, 6-INCH
CG31	CONCRETE CURB & GUTTER, 31-INCH	CS05	CONCRETE SIDEWALK, 5-INCH	AP01	2" HMA PAVEMENT 4 MT 58-28 S 2.5" HMA PAVEMENT 3 MT 58-28 S 2.5" HMA PAVEMENT 3 MT 58-28 S
CG19	CONCRETE CURB & GUTTER, 19-INCH	CS07	CONCRETE SIDEWALK, 7-INCH	//////////	SAWING ASPHALT
CG01	CONCRETE INTEGRAL CURB & GUTTER, 31-INCH	DW01	CONCRETE DRIVEWAY, 7-INCH	XXXXXX	SAWING CONCRETE
		DW02	ASPHALTIC SURFACE DRIVEWAY, 4-INCH		

PROJECT NO: 2050-08-71	HWY: CTH BB	COUNTY: MILWAUKEE	PLAN DETAILS	SHEET 47	E

NOTE: SEE STRUCTURE PLANS FOR B-40-389 DETAILS

N

58+00.00

52+00.00

NORTH BRANCH OAK CREEK

EX WETLAND BOUNDARY

9" CONC. HEADWALL

36" CMP WEST END BURIED

TEMPORARY WETLAND IMPACTS

WETLAND BOUNDARY (TYP)

IE:709.73

FENCE CHAIN LINK 6-FT (TYP)

SLOPE INTERCEPT (TYP)

R/W

W. RAWSON AVENUE (CTH BB)

PGL W RAWSON AVE WB

B-40-389 (EXISTING)

R/L W RAWSON AVE

11'X6' CULVERT

16'X10' CULVERT (ABANDONED)

S. 1ST STREET

GAS PIPELINE MARKER

GAS PIPELINE MARKER

STEEL SIGN OAK CREEK BUSINESS INDUST. PARK

12" STEEL POST FOR SIGN "COUSIN SUBS"

6"+6" STEEL POST SIGN FUN RENTALS

12" CPP

IE: 707.64

IE: 715.56

IE: 716.80

EX WETLAND BOUNDARY

LEGEND:

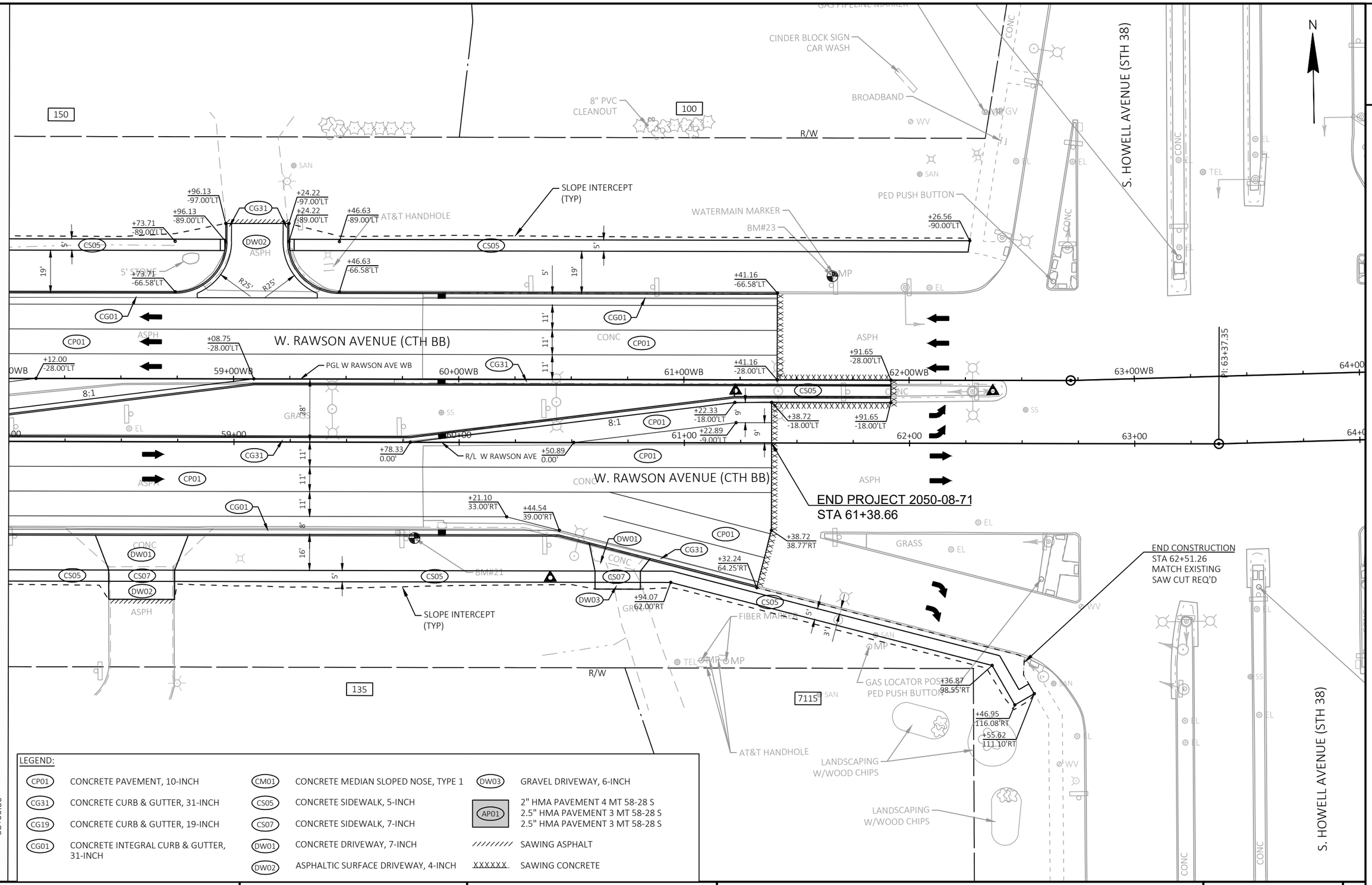
CP01	CONCRETE PAVEMENT, 10-INCH	CM01	CONCRETE MEDIAN SLOPED NOSE, TYPE 1	DW03	GRAVEL DRIVEWAY, 6-INCH
CG31	CONCRETE CURB & GUTTER, 31-INCH	CS05	CONCRETE SIDEWALK, 5-INCH	AP01	2" HMA PAVEMENT 4 MT 58-28 S 2.5" HMA PAVEMENT 3 MT 58-28 S 2.5" HMA PAVEMENT 3 MT 58-28 S
CG19	CONCRETE CURB & GUTTER, 19-INCH	CS07	CONCRETE SIDEWALK, 7-INCH	//////////	SAWING ASPHALT
CG01	CONCRETE INTEGRAL CURB & GUTTER, 31-INCH	DW01	CONCRETE DRIVEWAY, 7-INCH	XXXXXX	SAWING CONCRETE
		DW02	ASPHALTIC SURFACE DRIVEWAY, 4-INCH		

PROJECT NO: 2050-08-71	HWY: CTH BB	COUNTY: MILWAUKEE	PLAN DETAILS	SHEET 48	E

FILE NAME : \\W3027S02\DPPI$\DPW PROFESSIONAL\DATA\HIGHWAY OPERATIONS CONTROL FILE\CENTRAL FILES\2010-2014\CTH BB - W. RAWSON AVE\2050-08-01 S 13TH ST TO W HOWELL AVE\DESIGN\PLANS\2050080730_02.DWG 10/30/2015 5:28 PM
LAYOUT NAME - 08

PLOT BY : HILLIARD, MARC PLOT NAME : PLOT SCALE : 1 IN:40 FT

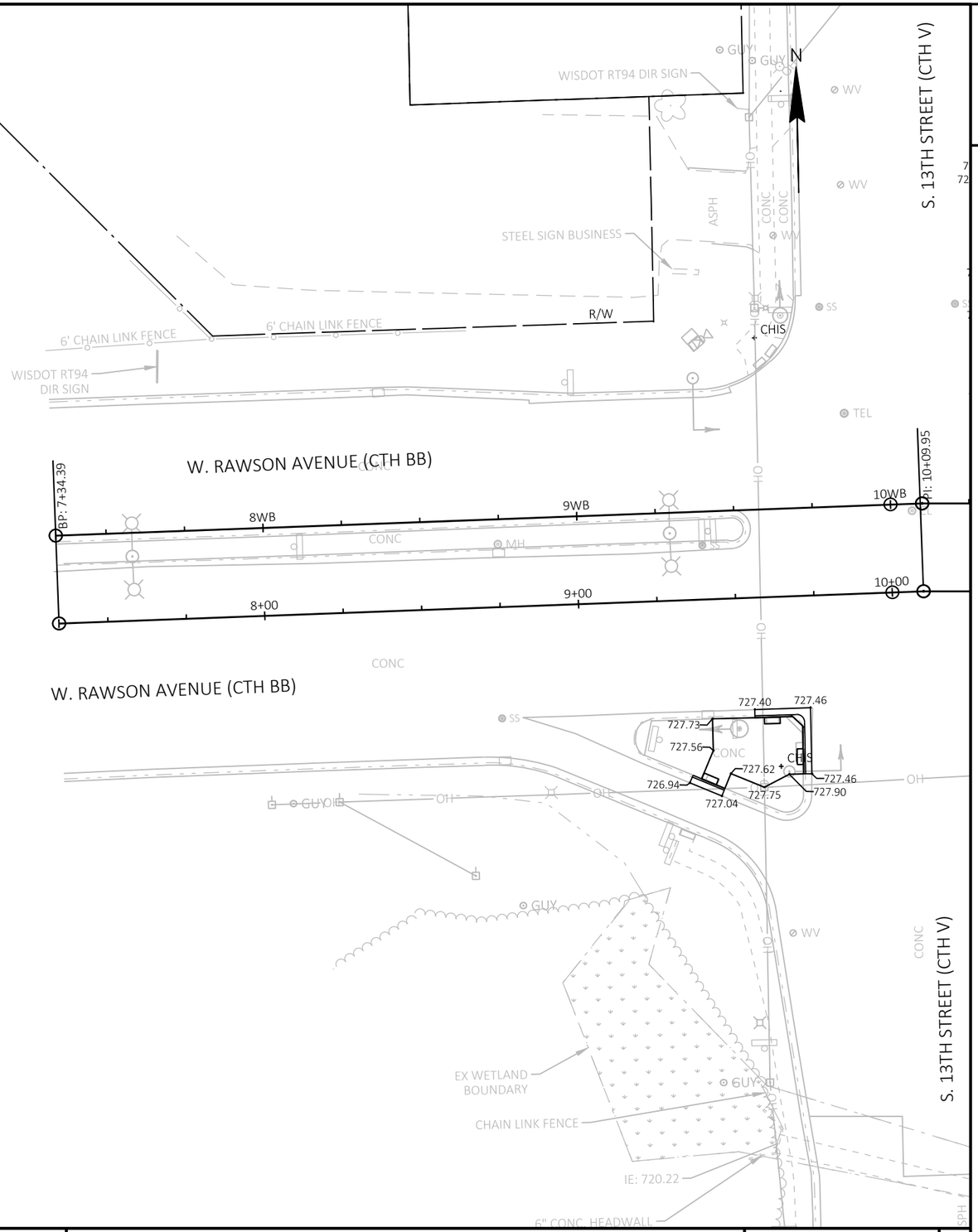
WISDOT/CADDS SHEET 42



LEGEND:

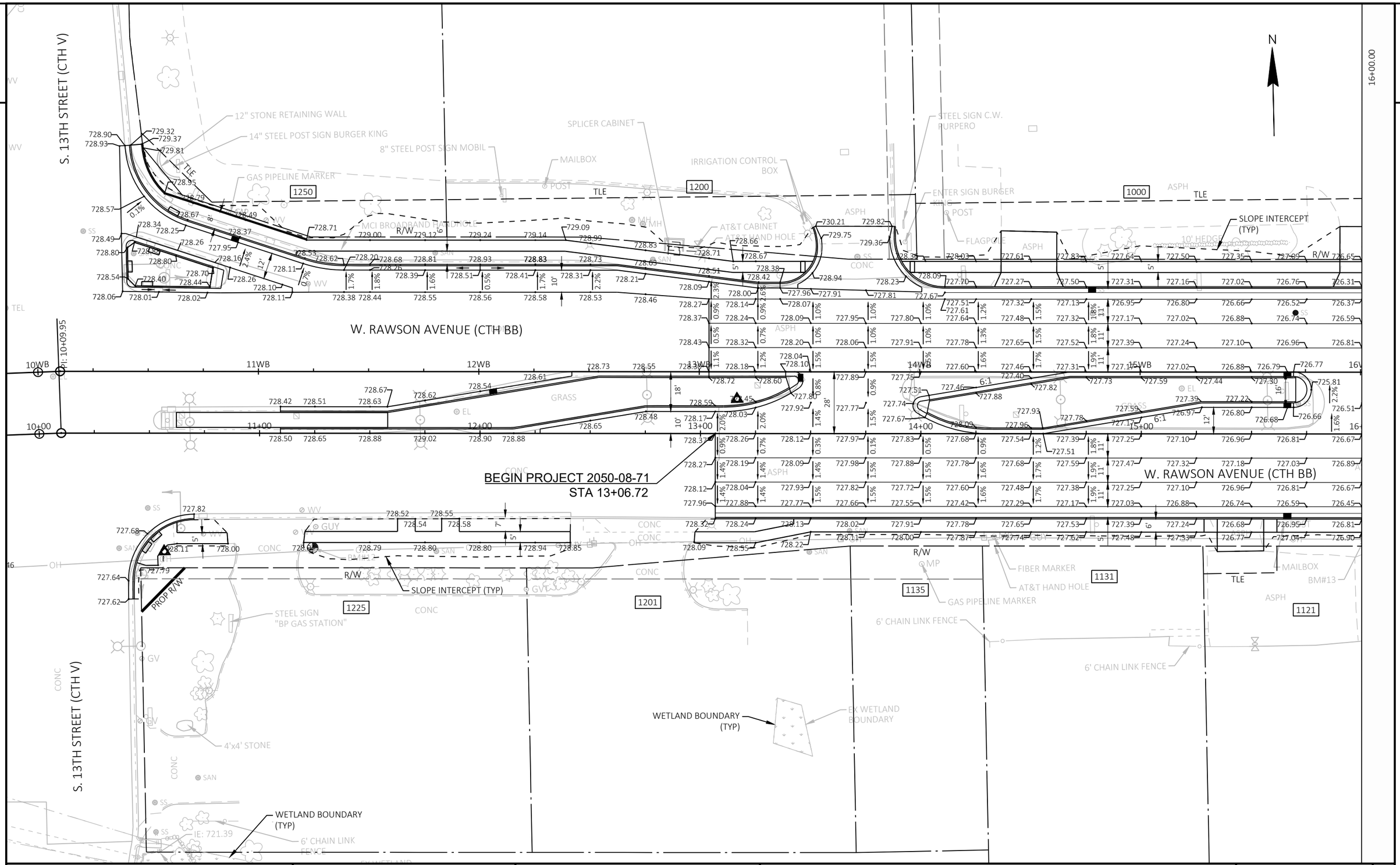
CP01	CONCRETE PAVEMENT, 10-INCH	CM01	CONCRETE MEDIAN SLOPED NOSE, TYPE 1	DW03	GRAVEL DRIVEWAY, 6-INCH
CG31	CONCRETE CURB & GUTTER, 31-INCH	CS05	CONCRETE SIDEWALK, 5-INCH	AP01	2" HMA PAVEMENT 4 MT 58-28 S 2.5" HMA PAVEMENT 3 MT 58-28 S 2.5" HMA PAVEMENT 3 MT 58-28 S
CG19	CONCRETE CURB & GUTTER, 19-INCH	CS07	CONCRETE SIDEWALK, 7-INCH	////////	SAWING ASPHALT
CG01	CONCRETE INTEGRAL CURB & GUTTER, 31-INCH	DW01	CONCRETE DRIVEWAY, 7-INCH	XXXXXX	SAWING CONCRETE
		DW02	ASPHALTIC SURFACE DRIVEWAY, 4-INCH		

PROJECT NO: 2050-08-71	HWY: CTH BB	COUNTY: MILWAUKEE	PLAN DETAILS	SHEET 49	E



2

PROJECT NO: 2050-08-71	HWY: CTH BB	COUNTY: MILWAUKEE	PAVING GRADES	SHEET 50	E



PROJECT NO: 2050-08-71	HWY: CTH BB	COUNTY: MILWAUKEE	PAVING GRADES	SHEET 51	E

FILE NAME : \\W3027S02\DPPIS\DPW PROFESSIONAL\DATA\HIGHWAY OPERATIONS CONTROL FILE\CENTRAL FILES\2010-2014\CTH BB - W. RAWSON AVE\2050-08-01 S 13TH ST TO W HOWELL AVE\DESIGN\PLANS\2050080173.DGN 10/3/2013 8:40 AM
LAYOUT NAME - 01
PLOT BY : HILLIARD, MARC PLOT NAME : PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2

2

W. RAWSON AVENUE (CTH BB)

S. 10TH STREET

N

22+00.00

16+00.00

17+00

18+00

19+00

20+00

21+00

7055

1019

950

945

TLE

R/W

SLOPE INTERCEPT (TYP)

PROP R/W

POST

FLAGPOLE

STEEL SIGN EDER FLAG

AT&T HANDHOLE

STEEL SIGN OAK CREEK INDUSTRIAL PARK

6'H"x8'W 4"x4" Wood Sign

14"+14" S HERCREN

MCI HAND HOLE

STEEL SIGN STORAGE RENTALS

MAILBOX

RETAINING WALL

6' CHAIN LINK FENCE DOUBLE GATE

AT&T HAND HOLE

GAS PIPELINE MARKER

FIBER MARKER

STEEL SIGN ABANDONED

CONC

ASPH

SAN

OH

WV

SS

GAS

PROJECT NO: 2050-08-71	HWY: CTH BB	COUNTY: MILWAUKEE	PAVING GRADES	SHEET 52	E

FILE NAME : \\W3027S02\DPPI$\DPW PROFESSIONAL\DATA\HIGHWAY OPERATIONS CONTROL FILE\CENTRAL FILES\2010-2014\CTH BB - W. RAWSON AVE\2050-08-01 S 13TH ST TO W HOWELL AVE\DESIGN\PLANS\2050080138 2016-10-31 10:41 AM
LAYOUT NAME - 02
PLOT BY : HILLIARD, MARC PLOT NAME : PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2

N

28+00.00

IRON POST
1' TALL

ASPH

POST W/ 2
AT&T BOXES

48" SINKHOLE
MARKER

GAS PIPELINE MARKER

ASPH

TEEL SIGN POST
TALS

AT&T CABINET

6' CYCLONE FENCE

950

I-FIBER HANDHOLE

SLOPE INTERCEPT
(TYP)

POST

R/W

W. RAWSON AVENUE (CTH BB)

23WB

24WB

25WB

26WB

27WB

26+00

27+00

W. RAWSON AVENUE (CTH BB)

945

921

841

MAILBOX

GAS PIPELINE MARKER

GAS PIPELINE MARKER

GAS PIPELINE MARKER

6' HEDGE

FIBER MARKER

GRVL

ASPH

3" STEEL 3' TALL POST

FIBER MARKER

BM#15

3" STEEL 4' TALL
POST

6' CYCLONE FENCE

DOUBLE GATE FENCE

SLOPE INTERCEPT
(TYP)

22+00.00

PROJECT NO: 2050-08-71	HWY: CTH BB	COUNTY: MILWAUKEE	PAVING GRADES	SHEET 53	E

FILE NAME : \\W3027S02\DPPIS\DPW PROFESSIONAL\DATA\HIGHWAY OPERATIONS CONTROL FILE\CENTRAL FILES\2010-2014\CTH BB - W. RAWSON AVE\2050-08-01 S 13TH ST TO W HOWELL AVE\DESIGN\PLANS\2050080... 10/3/2016 8:41 AM
LAYOUT NAME - 03

PLOT BY : HILLIARD, MARC PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

2

N

34+00.00

28+00.00

R/W

7000

6' CHAIN LINK FENCE

750

7001

12" LANDSCAPE RETAINING WALL

3' HEDGE

R/W

SLOPE INTERCEPT (TYP)

FIBER MARKER

GAS PIPELINE MARKER

CONC BRIDGE SUPPORT

18" CONC WING WALL

GUY

MP

MWEL

FIBER OPTIC HANDHOLE

W. RAWSON AVENUE (CTH BB)

PI: 29+06.18

PI: 32+81.23

29WB

30WB

31WB

32WB

33WB

34WB

GRASS

SS

OH

CONC

CONC. STEPS

CONC SUPPORT FOR BRIDGE

GAS LOCATOR POST

CHIS

BM#22

CONTROL BOX

6" STEEL 4' TALL POSTS

LARGE WATER PUMP STATION

841

735

621

CANADIAN PACIFIC RAILWAY

PROJECT NO: 2050-08-71	HWY: CTH BB	COUNTY: MILWAUKEE	PAVING GRADES	SHEET 54	E

FILE NAME : \\W3027S02\DPPI$\DPW PROFESSIONAL\DATA\HIGHWAY OPERATIONS CONTROL FILE\CENTRAL FILES\2010-2014\CTH BB - W. RAWSON AVE\2050-08-01 S 13TH ST TO W HOWELL AVE\DESIGN PLANS\2050080130 2016 04 LAYOUT NAME - 04

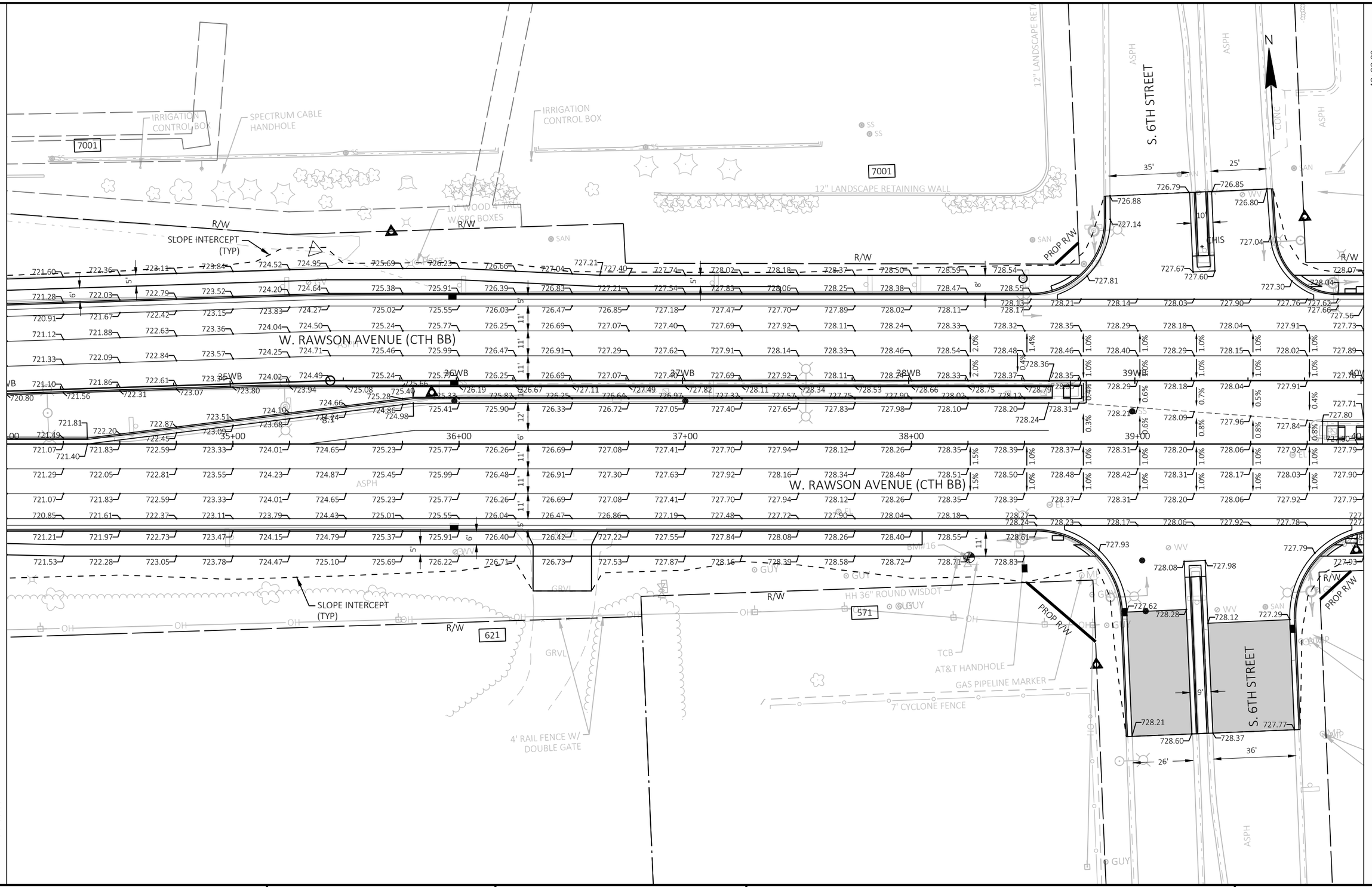
PLOT DATE : 10/26/2016 8:41 AM

PLOT BY : HILLIARD, MARC

PLOT NAME :

PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42



PROJECT NO: 2050-08-71	HWY: CTH BB	COUNTY: MILWAUKEE	PAVING GRADES	SHEET 55 E

FILE NAME : \\W3027S02\DPPIS\DPW PROFESSIONAL\DATA\HIGHWAY OPERATIONS CONTROL FILE\CENTRAL FILES\2010-2014\CTH BB - W. RAWSON AVE\2050-08-01 S 13TH ST TO W HOWELL AVE\DESIGN\PLANS\2050083730.DWG 10/31/2016 8:41 AM
LAYOUT NAME - 05

PLOT BY : HILLIARD, MARC PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

2

N

OAK CREEK VETERANS MEMORIAL PARK

STEEL SIGN
OAK CREEK BUSINESS PARK

SPECTRUM CABLE
DOUBLE HANDHOLE

8"x8" WOOD POST
FOR SIGN VET
MEMORIAL PARK

POST

AT&T HANDHOLE

552

500

400

10' HEDGE

CONC

6' H

STEEL SIGN
FASTENAL

TLE

ASPH

CHIS

SAN

R/W

SLOPE INTERCEPT
(TYP)

W. RAWSON AVENUE (CTH BB)

PI: 42+89.57

41WB

42WB

43WB

44WB

45WB

43+00

44+00

46+00.00

40+00.00

6:1

BM#17

BM#18

FIBER MARKER

FIBER OPTIC HANDHOLE

501

HANDHOLE

FIBER MARKER

FIBER MARKER
HAND HOLE

FIBER MARKER

2' STONE

1.5' STONE

14" POST SIGN
FARM & FLEET

FILLED W/1"
STONES

PROJECT NO: 2050-08-71	HWY: CTH BB	COUNTY: MILWAUKEE	PAVING GRADES	SHEET 56	E

FILE NAME : \\W3027S02\DPPI$\DPW PROFESSIONAL\DATA\HIGHWAY OPERATIONS CONTROL FILE\CENTRAL FILES\2010-2014\CTH BB - W. RAWSON AVE\2050-08-01 S 13TH ST TO W HOWELL AVE\DESIGN\PLANS\2050080738_2.DWG
LAYOUT NAME - 06

PLOTTED : 10/30/2020 8:42 AM

PLOT BY : HILLIARD, MARC

PLOT NAME :

PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

2

N

52+00.00

46+00.00

W. RAWSON AVENUE (CTH BB)

W. RAWSON AVENUE (CTH BB)

400 328 308 296 501 315 295 225

TLE

SLOPE INTERCEPT (TYP)

R/W

15" STONE RETAINING WALL

BOTH END

BM#19

WSE IE:709.4
12-6-2

PROJECT NO: 2050-08-71	HWY: CTH BB	COUNTY: MILWAUKEE	PAVING GRADES	SHEET 57	E

FILE NAME : \\W3027S02\DPPIS\DPW PROFESSIONAL\DATA\HIGHWAY OPERATIONS CONTROL FILE\CENTRAL FILES\2010-2014\CTH BB - W. RAWSON AVE\2050-08-01 S 13TH ST TO W HOWELL AVE\DESIGN\PLANS\2050080138.DWG
LAYOUT NAME - 07

PLOT DATE : 10/26/2016 8:42 AM

PLOT BY : HILLIARD, MARC

PLOT NAME :

PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

2

58+00.00

52+00.00

N

W. RAWSON AVENUE (CTH BB)

NORTH BRANCH OAK CREEK

S. 1ST STREET

EX WETLAND BOUNDARY

9" CONC. HEADWALL

36" CMP WEST END BURIED

WETLAND BOUNDARY (TYP)

IE:709.73

R/W

SLOPE INTERCEPT (TYP)

ASPH

SAN

WV

GV

SS

CONC

11'X6' CULVERT

16'X6' CULVERT (ABANDONED)

12" CPP

IE: 715.56

IE: 716.80

IE: 707.64

6"+6" STEEL POST SIGN FUN RENTALS

GAS PIPELINE MARKER

STEEL SIGN OAK CREEK BUSINESS INDUST. PARK

12" STEEL POST FOR SIGN "COUSIN SUBS"

53WB

54WB

55WB

56WB

57WB

54+00

55+00

56+00

57+00

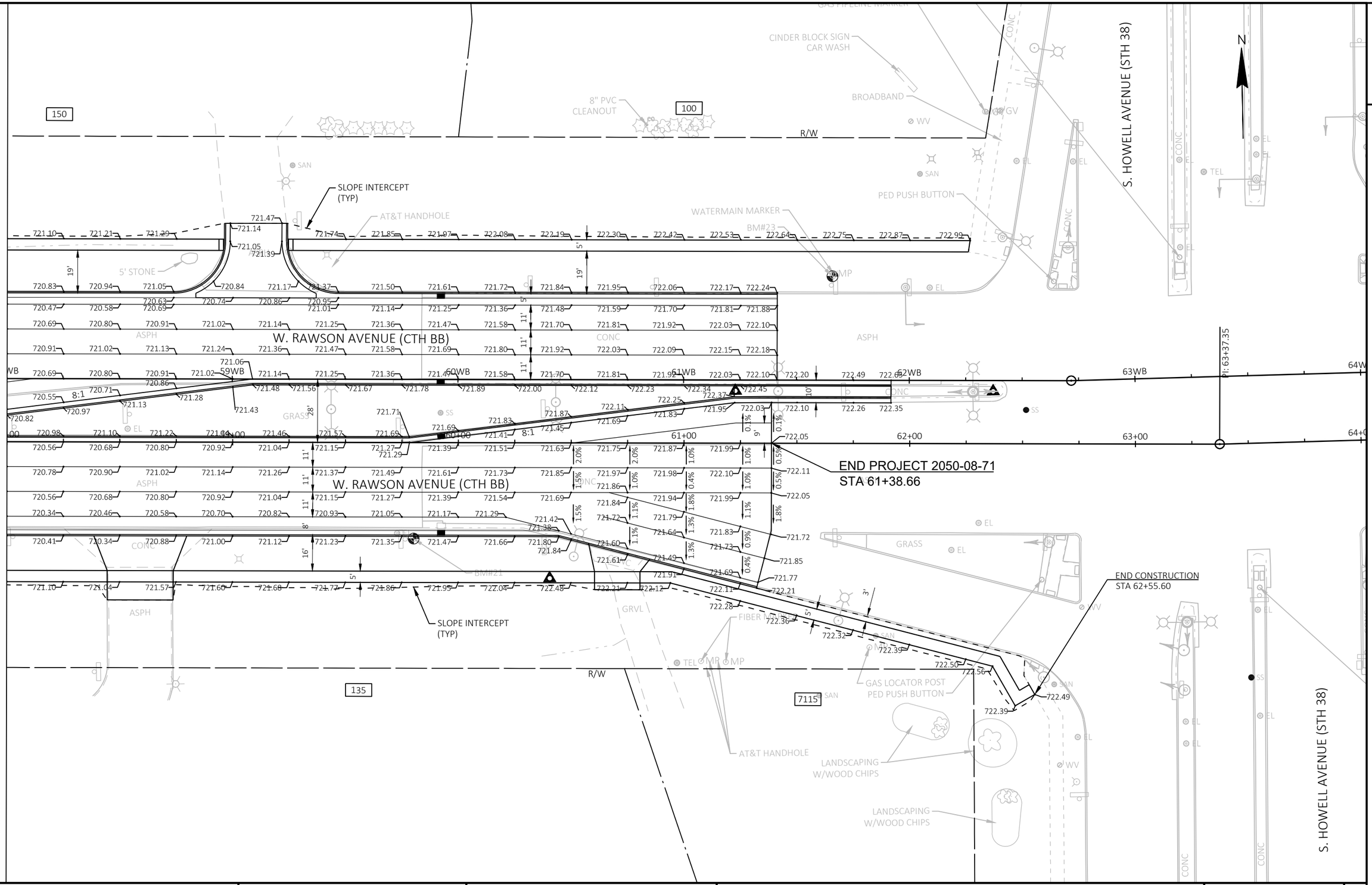
PROJECT NO: 2050-08-71	HWY: CTH BB	COUNTY: MILWAUKEE	PAVING GRADES	SHEET 58	E

FILE NAME : \\W3027S02\DPPIS\DPW PROFESSIONAL\DATA\HIGHWAY OPERATIONS CONTROL FILE\CENTRAL FILES\2010-2014\CTH BB - W. RAWSON AVE\2050-08-01 S 13TH ST TO W HOWELL AVE\DESIGN\PLANS\2050081_PAVGRADES.dgn 10/31/2016 8:42 AM
LAYOUT NAME - 08

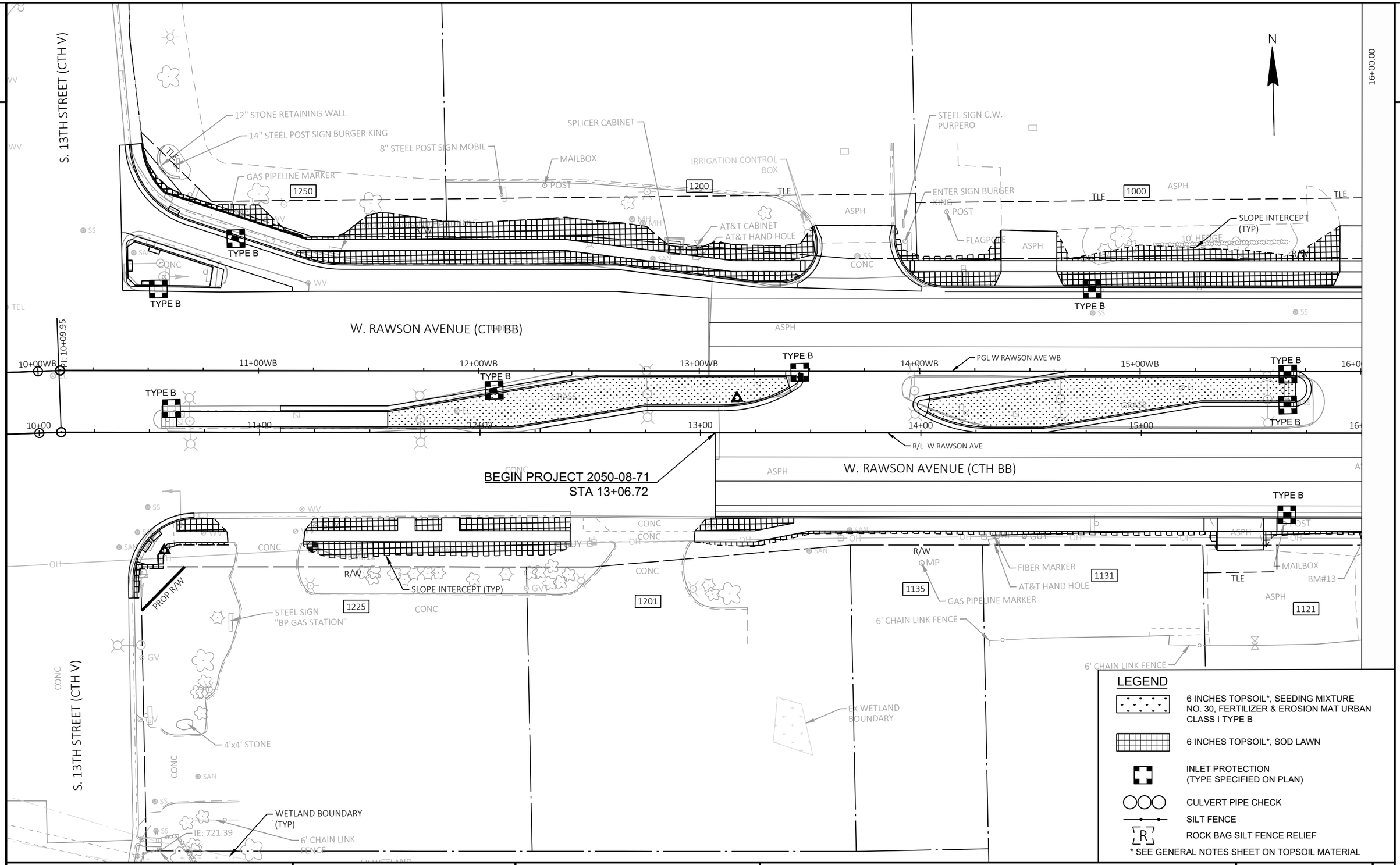
PLOT BY : HILLIARD, MARC PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2



PROJECT NO: 2050-08-71	HWY: CTH BB	COUNTY: MILWAUKEE	PAVING GRADES	SHEET 59	E



LEGEND

- 6 INCHES TOPSOIL*, SEEDING MIXTURE NO. 30, FERTILIZER & EROSION MAT URBAN CLASS I TYPE B
- 6 INCHES TOPSOIL*, SOD LAWN
- INLET PROTECTION (TYPE SPECIFIED ON PLAN)
- CULVERT PIPE CHECK
- SILT FENCE
- ROCK BAG SILT FENCE RELIEF

* SEE GENERAL NOTES SHEET ON TOPSOIL MATERIAL

PROJECT NO: 2050-08-71	HWY: CTH BB	COUNTY: MILWAUKEE	EROSION CONTROL	SHEET 60	E

2

2

W. RAWSON AVENUE (CTH BB)

S. 10TH STREET

N

16+00.00

22+00.00

AT&T HANDHOLE

CONC

ASPH

TLE

7055

SLOPE INTERCEPT (TYP)

POST

FLAGPOLE

STEEL SIGN EDER FLAG

R/W

TYPE B

GV

SS

EL

PGL W RAWSON AVE WB

16+55.07

17+00WB

18+00WB

19+00WB

20+00WB

21+00WB

17+00

18+00

19+00

20+00

21+00

GRASS

R/L W RAWSON AVE

STEEL SIGN OAK CREEK INDUSTRIAL PARK

14"+14" S HERCREN

PROP R/W

6'H"x8'W 4"x4" Wood Sign

950

1019

945

MAILBOX

STEEL SIGN STORAGE RENTALS

MCI HAND HOLE

RETAINING WALL

6' CHAIN LINK FENCE DOUBLE GATE

AT&T HAND HOLE

GAS PIPELINE MARKER

STEEL SIGN OAK CREEK INDUSTRIAL PARK

FIBER MARKER

SLOPE INTERCEPT (TYP)

STEEL SIGN ABANDONED

GAS PIPELINE MARKER

LEGEND

- 6 INCHES TOPSOIL*, SEEDING MIXTURE NO. 30, FERTILIZER & EROSION MAT URBAN CLASS I TYPE B
- 6 INCHES TOPSOIL*, SOD LAWN
- INLET PROTECTION (TYPE SPECIFIED ON PLAN)
- CULVERT PIPE CHECK
- SILT FENCE
- ROCK BAG SILT FENCE RELIEF

* SEE GENERAL NOTES SHEET ON TOPSOIL MATERIAL

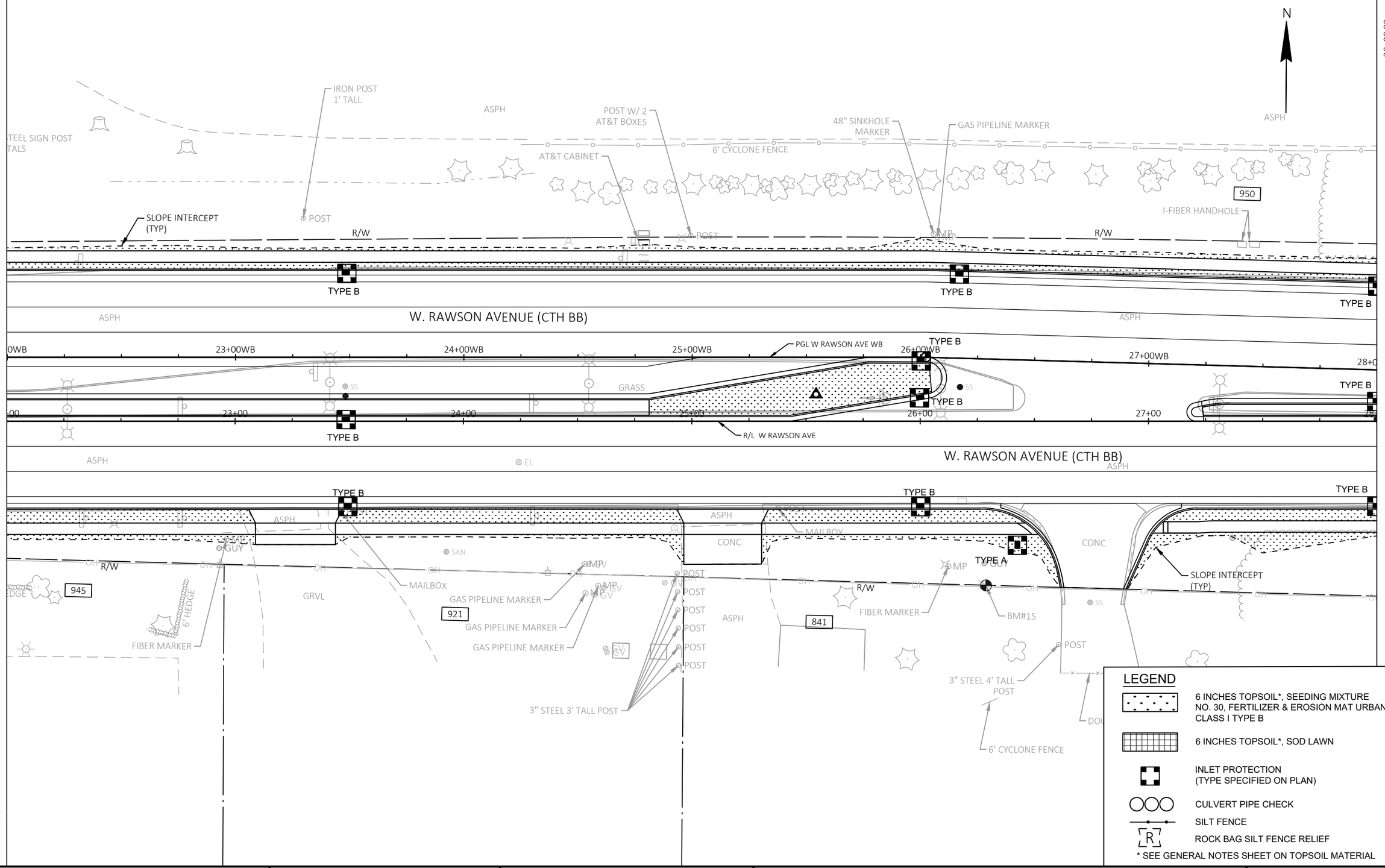
PROJECT NO: 2050-08-71	HWY: CTH BB	COUNTY: MILWAUKEE	EROSION CONTROL	SHEET 61	E

FILE NAME : \\W3027S02\DPPIS\DPW PROFESSIONAL\DATA\HIGHWAY OPERATIONS CONTROL FILE\CENTRAL FILES\2010-2014\CTH BB - W. RAWSON AVE\2050-08-01 S 13TH ST TO W HOWELL AVE\DESIGN\PLANS\2050080123 EROSION CONTROL ROCK BAG.DWG
LAYOUT NAME - 02

PLOT BY : ALQAYYIM, ALI PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2



LEGEND

- 6 INCHES TOPSOIL*, SEEDING MIXTURE NO. 30, FERTILIZER & EROSION MAT URBAN CLASS I TYPE B
- 6 INCHES TOPSOIL*, SOD LAWN
- INLET PROTECTION (TYPE SPECIFIED ON PLAN)
- CULVERT PIPE CHECK
- SILT FENCE
- R — ROCK BAG SILT FENCE RELIEF

* SEE GENERAL NOTES SHEET ON TOPSOIL MATERIAL

PROJECT NO: 2050-08-71	HWY: CTH BB	COUNTY: MILWAUKEE	EROSION CONTROL	SHEET 62	E

FILE NAME : \\W3027S02\DPPIS\DPW PROFESSIONAL\DATA\HIGHWAY OPERATIONS CONTROL FILE\CENTRAL FILES\2010-2014\CTH BB - W. RAWSON AVE\2050-08-01 S 13TH ST TO W HOWELL AVE\DESIGN\PLANS\2050082301_EC02_ROCK BAG.DWG
LAYOUT NAME - 03
PLOT BY : ALQAYYIM, ALI
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

NOTE: SEE SPECIAL PROVISION FOR INFORMATION ABOUT
MINIMUM VERTICAL CLEARANCE UNDER BRIDGE B-40-385

N

2

2

34+00.00

28+00.00

R/W

6' CHAIN LINK FENCE

7000

750

7001

12" LANDSCAPE RETAINING WALL

3' HEDGE

R/W

FIBER MARKER

GUY

MP

FIBER MARKER

GAS PIPELINE MARKER

CONC BRIDGE SUPPORT

18" CONC WING WALL

FIBER MARKER

MWEL

FIBER MARKER

FIBER OPTIC HANDHOLE

SLOPE INTERCEPT (TYP)

R/W

TYPE D

TYPE D

CONC

TYPE D

TYPE B

W. RAWSON AVENUE (CTH BB)

Pi: 29+06.18

Pi: 32+81.23

B-40-385 (EXISTING)

TYPE D

TYPE D

TYPE D

0WB

29+00WB

30+00WB

31+00WB

32+00WB

PGL W RAWSON AVE WB

33+00WB

34+00

8:1

TYPE B

29+00

30+00

31+00

32+00

33+00

34+

TYPE D

TYPE D

TYPE D

R/L W RAWSON AVE

TYPE B

SS

SS

W. RAWSON AVENUE (CTH BB)

TYPE D

TYPE D

TYPE D

CONC

CONC

TYPE B

EL

EL

EL

EL

SLOPE INTERCEPT (TYP)

CONC SUPPORT FOR BRIDGE

GAS LOCATOR POST

18" CONC WING WALL

GAS PIPELINE MARKER

CONC

BM#22

CONTROL BOX

GUY

GAS PIPELINE MARKER

GUY

GUY

R/W

OH

OH

OH

OH

OH

OH

OH

OH

OH

OH

CONC. STEPS

R/W

841

735

621

6" STEEL 4' TALL POSTS

CONC. STEPS

LARGE WATER PUMP STATION

CANADIAN PACIFIC RAILWAY

LEGEND

- 6 INCHES TOPSOIL*, SEEDING MIXTURE NO. 30, FERTILIZER & EROSION MAT URBAN CLASS I TYPE B
- 6 INCHES TOPSOIL*, SOD LAWN
- INLET PROTECTION (TYPE SPECIFIED ON PLAN)
- CULVERT PIPE CHECK
- SILT FENCE
- R — ROCK BAG SILT FENCE RELIEF

* SEE GENERAL NOTES SHEET ON TOPSOIL MATERIAL

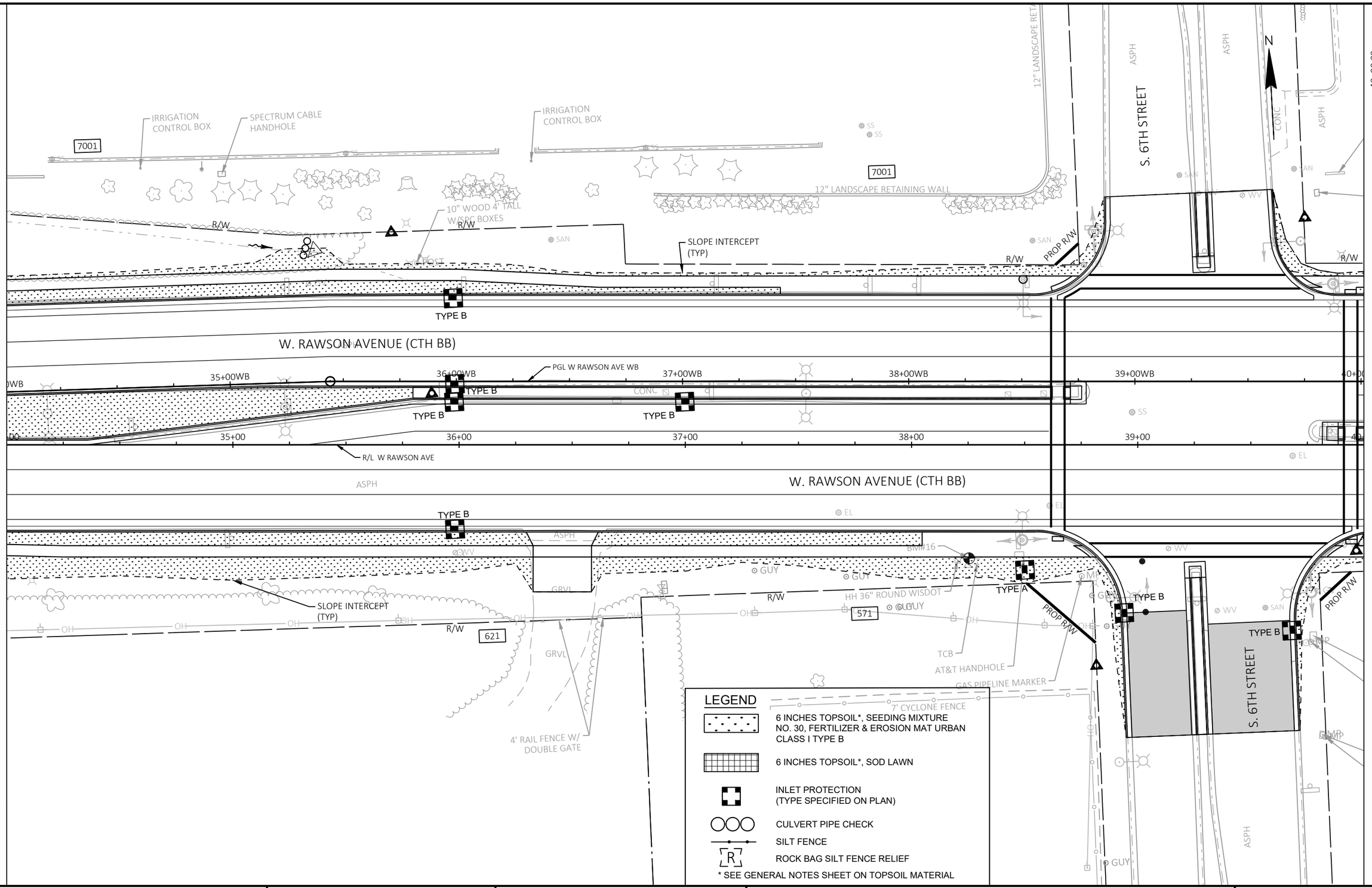
PROJECT NO: 2050-08-71	HWY: CTH BB	COUNTY: MILWAUKEE	EROSION CONTROL	SHEET 63	E

FILE NAME : \\W3027S02\DPPI$\DPW PROFESSIONAL\DATA\HIGHWAY OPERATIONS CONTROL FILE\CENTRAL FILES\2010-2014\CTH BB - W. RAWSON AVE\2050-08-01 S 13TH ST TO W HOWELL AVE\DESIGN\PLANS\2050080123_EC_26x2_ROCK BAG.DWG
LAYOUT NAME - 04

PLOT BY : ALQAYYIM, ALI PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2



PROJECT NO: 2050-08-71	HWY: CTH BB	COUNTY: MILWAUKEE	EROSION CONTROL	SHEET 64	E

FILE NAME : \\W3027S02\DPPIS\DPW PROFESSIONAL\DATA\HIGHWAY OPERATIONS CONTROL FILE\CENTRAL FILES\2010-2014\CTH BB - W. RAWSON AVE\2050-08-01 S 13TH ST TO W HOWELL AVE\DESIGN\PLANS\2050-08-71 EC02 ROCK BAG.DWG
LAYOUT NAME - 05
PLOT BY : ALQAYYIM, ALI PLOT NAME : PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2

N

46+00.00

STEEL SIGN
OAK CREEK BUSINESS PARK

SPECTRUM CABLE
DOUBLE HANDHOLE

552

8"x8" WOOD POST
FOR SIGN VET
MEMORIAL PARK

POST

AT&T HANDHOLE

SAN

R/W

10' HEDGE

CONC

500

SLOPE INTERCEPT
(TYP)

+99.70
-78.64'

+17.63
-78.43'
TLE

ASPH

STEEL SIGN
FASTENAL

+57.78
-77.71'

10' HEDGE

6' HEDGE

400

+00.41
-77.95'

R/W

CONC

TYPE B

TYPE B

W. RAWSON AVENUE (CTH BB)

ASPH

42+89.57

41+00WB

42+00WB

43+00WB

44+00WB

PGL W RAWSON AVE WB

45+00WB

TYPE B

6:1
GRASS

TYPE B

41+00

42+00

43+00

44+00

45+00

TYPE B

R/L W RAWSON AVE

TYPE B

ASPH

W. RAWSON AVENUE (CTH BB)

CONC

TYPE B

TYPE B

TYPE B

CMP

CMP

R/W

BM#17

FIBER MARKER

FIBER MARKER

AT&T HANDHOLE

FIBER OPTIC HANDHOLE

501

AT&T HANDHOLE

SLOPE INTERCEPT (TYP)

BM#18

2' STONE

ASPH

TLE

ASPH

CONC

R/W

2' STONE

1.5' STONE

14" POST SIGN
FARM & FLEET

FILLED W/1"
STONES

HANDHOLE

FIBER MARKER

FIBER MARKER
HAND HOLE

FIBER MARKER

40+00.00

LEGEND

- 6 INCHES TOPSOIL*, SEEDING MIXTURE NO. 30, FERTILIZER & EROSION MAT URBAN CLASS I TYPE B
- 6 INCHES TOPSOIL*, SOD LAWN
- INLET PROTECTION (TYPE SPECIFIED ON PLAN)
- CULVERT PIPE CHECK
- SILT FENCE
- R — ROCK BAG SILT FENCE RELIEF

* SEE GENERAL NOTES SHEET ON TOPSOIL MATERIAL

PROJECT NO: 2050-08-71	HWY: CTH BB	COUNTY: MILWAUKEE	EROSION CONTROL	SHEET 65	E

FILE NAME : \\W3027S02\DPPI$\DPW PROFESSIONAL\DATA\HIGHWAY OPERATIONS CONTROL FILE\CENTRAL FILES\2010-2014\CTH BB - W. RAWSON AVE\2050-08-01 S 13TH ST TO W HOWELL AVE\DESIGN\PLANS\2050082301_EC_26X2_ROCK BAG.DWG
LAYOUT NAME - 06

PLOT BY : ALQAYYIM, ALI PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

N

52+00.00

46+00.00

W. RAWSON AVENUE (CTH BB)

TYPE B

TYPE B

TYPE B

TYPE B

TYPE B

TYPE B

TYPE B

TYPE B

47+00WB

48+00WB

49+00WB

50+00WB

51+00WB

PGL W RAWSON AVE WB

47+00

48+00

49+00

50+00

51+00

R/L W RAWSON AVE

W. RAWSON AVENUE (CTH BB)

400

328

308

296

501

315

295

225

TLE

4' STONE

SLOPE INTERCEPT (TYP)

15" STONE RETAINING WALL

+82.80

-83.43'

HEDGE

10' HEDGE

MAILBOX

GRVL

ASPH

CONC

HSE

GUY

SAN

POST

R/W

OH

BM#19

BOTH END

IE:

9"

LEGEND

- 6 INCHES TOPSOIL*, SEEDING MIXTURE NO. 30, FERTILIZER & EROSION MAT URBAN CLASS I TYPE B
- 6 INCHES TOPSOIL*, SOD LAWN
- INLET PROTECTION (TYPE SPECIFIED ON PLAN)
- CULVERT PIPE CHECK
- SILT FENCE
- R — ROCK BAG SILT FENCE RELIEF

* SEE GENERAL NOTES SHEET ON TOPSOIL MATERIAL

PROJECT NO: 2050-08-71	HWY: CTH BB	COUNTY: MILWAUKEE	EROSION CONTROL	SHEET 66	E

FILE NAME : \\W3027S02\DPPIS\DPW PROFESSIONAL\DATA\HIGHWAY OPERATIONS CONTROL FILE\CENTRAL FILES\2010-2014\CTH BB - W. RAWSON AVE\2050-08-01 S 13TH ST TO W HOWELL AVE\DESIGN\PLANS\2050082371ECP2BCPX BAG.DWG
LAYOUT NAME - 07

PLOT BY : ALQAYYIM, ALI PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

NOTE: SEE STRUCTURE PLANS FOR B-40-389 DETAILS

N

58+00.00

52+00.00

NORTH BRANCH OAK CREEK

EX WETLAND BOUNDARY

9" CONC. HEADWALL

36" CMP WEST END BURIED

IE:709.73

WETLAND BOUNDARY (TYP)

IE: 707.64

IE: 715.56

12" CPP

IE: 716.80

6"+6" STEEL POST SIGN FUN RENTALS

GAS PIPELINE MARKER

SLOPE INTERCEPT (TYP)

TYPE A

TYPE B

CONC

ASPH

SAN

WV

GV

MP

SS

R/W

150

200

185

165

204

220

+00.00 55.20'

+15.91 61.36'

+15.58 73.39'

+16.38 -94.62'

+52.67 -96.48'

+74.85 -86.07'

+74.99 55.70'

+51.54 -84.98'

+51.86 70.05'

+24.65 63.22'

+50.08 56.33'

+50.11 64.26'

+24.45 -82.54'

+37.14 -84.97'

+49.82 -87.41'

+89.38 -84.58'

W. RAWSON AVENUE (CTH BB)

B-40-389 (EXISTING)

PGL W RAWSON AVE WB

R/L W RAWSON AVE

53+00WB

54+00WB

55+00WB

56+00WB

57+00WB

58+0

53+00

54+00

55+00

56+00

57+00

8:1

11'X6' CULVERT

16'X10' CULVERT (ABANDONED)

S. 1ST STREET

LEGEND

- 6 INCHES TOPSOIL*, SEEDING MIXTURE NO. 30, FERTILIZER & EROSION MAT URBAN CLASS I TYPE B
- 6 INCHES TOPSOIL*, SOD LAWN
- INLET PROTECTION (TYPE SPECIFIED ON PLAN)
- CULVERT PIPE CHECK
- SILT FENCE
- R — ROCK BAG SILT FENCE RELIEF

* SEE GENERAL NOTES SHEET ON TOPSOIL MATERIAL

PROJECT NO: 2050-08-71	HWY: CTH BB	COUNTY: MILWAUKEE	EROSION CONTROL	SHEET 67	E

FILE NAME : \\W3027S02\DPPIS\DPW PROFESSIONAL\DATA\HIGHWAY OPERATIONS CONTROL FILE\CENTRAL FILES\2010-2014\CTH BB - W. RAWSON AVE\2050-08-01 S 13TH ST TO W HOWELL AVE\DESIGN\PLANS\2050080123_EC02_ROCK BAG.DWG
LAYOUT NAME - 08

PLOT BY : ALQAYYIM, ALI PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

2

150

100

R/W

8" PVC CLEANOUT

CINDER BLOCK SIGN
CAR WASH

BROADBAND

GAS PIPELINE MARKER

S. HOWELL AVENUE (STH 38)

N

SAN

SLOPE INTERCEPT (TYP)

AT&T HANDHOLE

WATERMAIN MARKER

BM#23

PED PUSH BUTTON

MP

EL

CONC

ASPH

TYPE B

W. RAWSON AVENUE (CTH BB)

59+00WB

60+00WB

61+00WB

62+00WB

63+00WB

64+00

PGL W RAWSON AVE WB

8:1

59+00

60+00

61+00

62+00

63+00

64+00

PI: 63+37.35

R/L W RAWSON AVE

SS

END PROJECT 2050-08-71
STA 61+38.66

GRASS

END CONSTRUCTION
STA 62+51.26

WV

GRVL

FIBER MARKER

TEL

GAS LOCATOR POST
PED PUSH BUTTON

7115

AT&T HANDHOLE

LANDSCAPING
W/WOOD CHIPS

LANDSCAPING
W/WOOD CHIPS

135

58+00.00

LEGEND

6 INCHES TOPSOIL*, SEEDING MIXTURE NO. 30, FERTILIZER & EROSION MAT URBAN CLASS I TYPE B

6 INCHES TOPSOIL*, SOD LAWN

INLET PROTECTION (TYPE SPECIFIED ON PLAN)

CULVERT PIPE CHECK

SILT FENCE

ROCK BAG SILT FENCE RELIEF

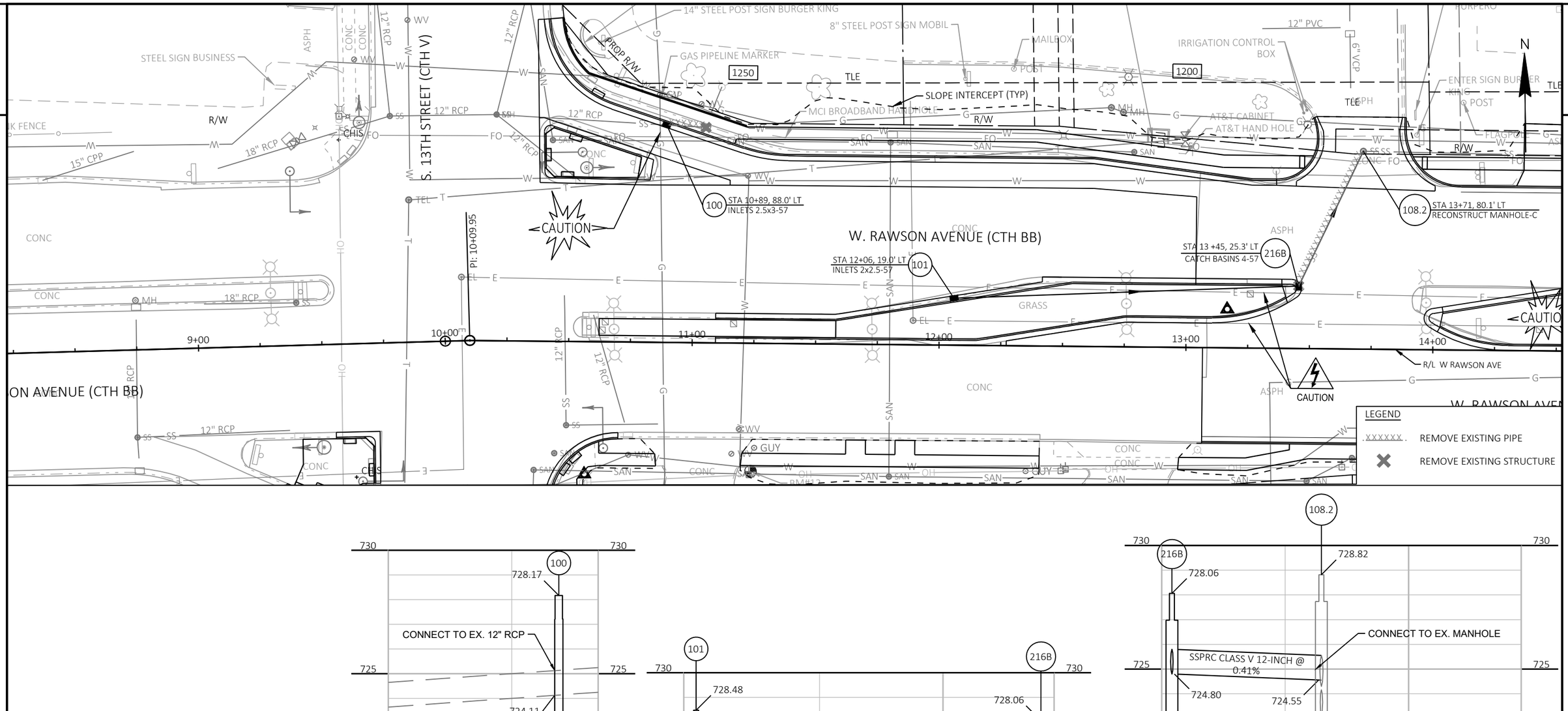
* SEE GENERAL NOTES SHEET ON TOPSOIL MATERIAL

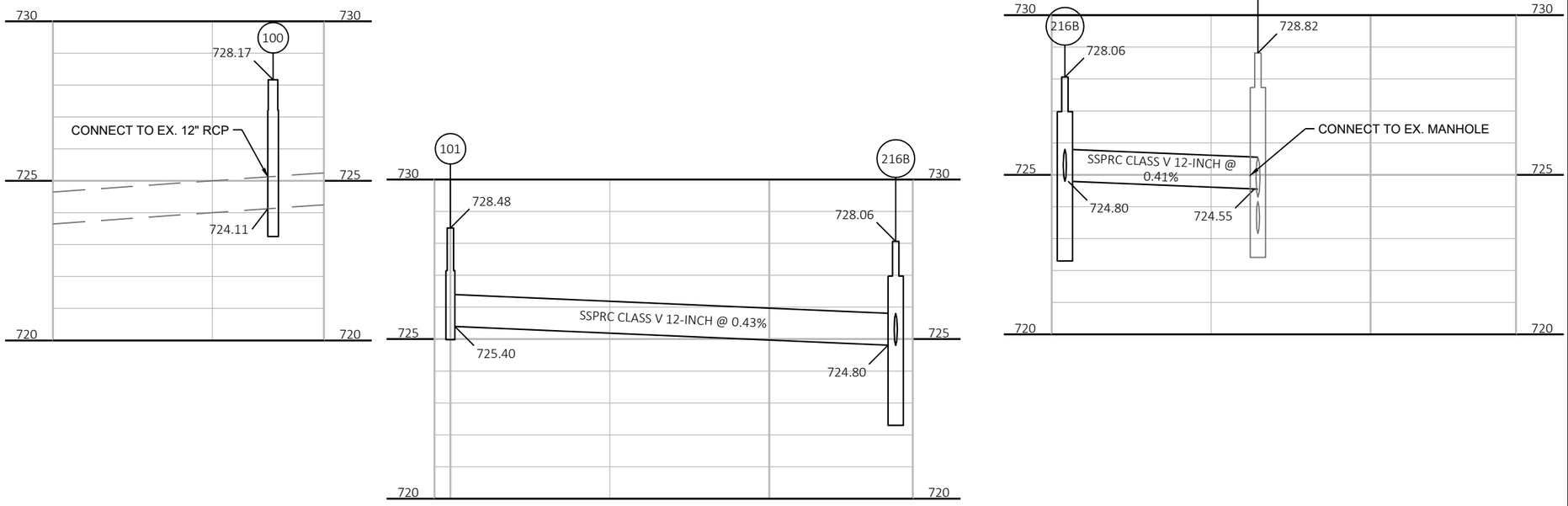
PROJECT NO: 2050-08-71	HWY: CTH BB	COUNTY: MILWAUKEE	EROSION CONTROL	SHEET 68	E

FILE NAME : \\W3027S02\DPPIS\DPW PROFESSIONAL\DATA\HIGHWAY OPERATIONS CONTROL FILE\CENTRAL FILES\2010-2014\CTH BB - W. RAWSON AVE\2050-08-01 S 13TH ST TO W HOWELL AVE\DESIGN\PLANS\2050803_EC_ROCK BAG.DWG
LAYOUT NAME - 09

PLOT BY : ALQAYYIM, ALI PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42



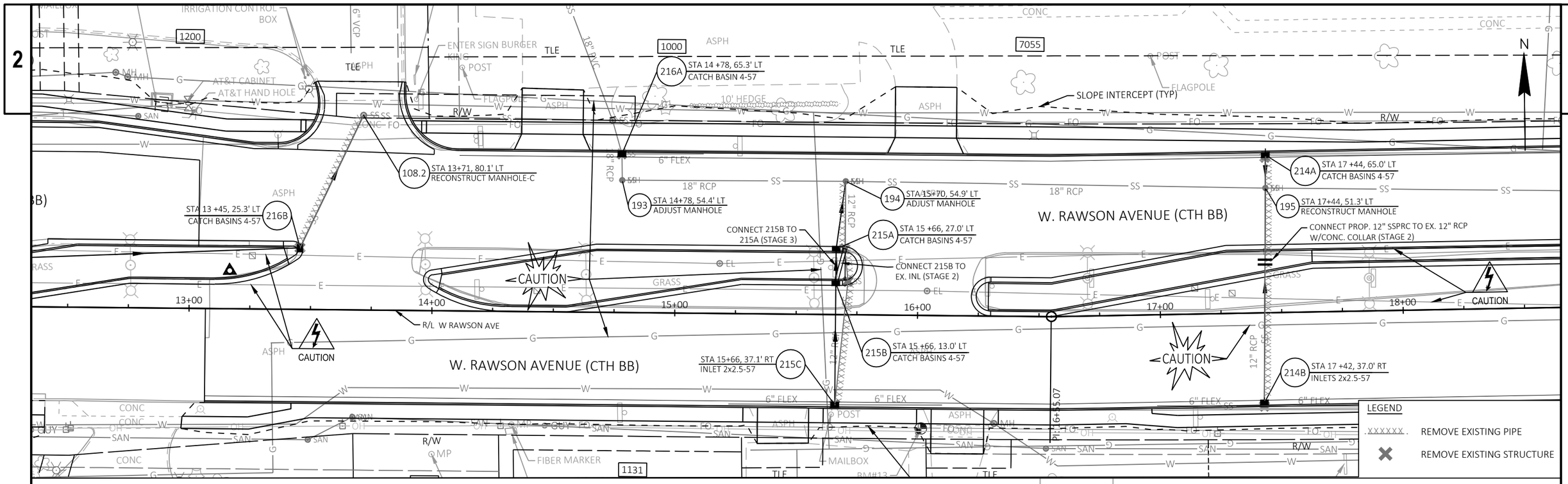


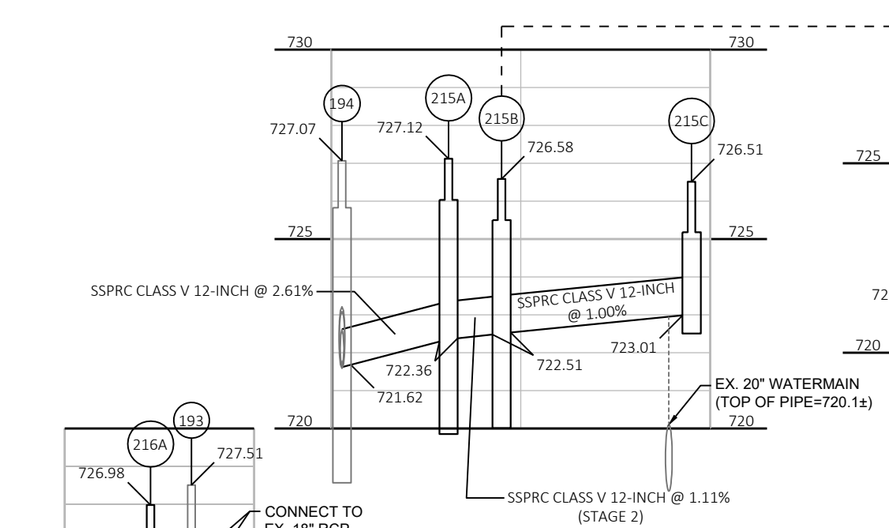
PROJECT NO: 2050-08-71	HWY: CTH BB	COUNTY: MILWAUKEE	STORM SEWER (100)	SHEET 69	E

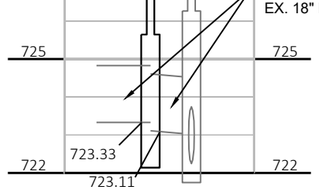
FILE NAME : \\W3027S02\DPPIS\DPW PROFESSIONAL\DATA\HIGHWAY OPERATIONS CONTROL FILE\CENTRAL FILES\2010-2014\CTH BB - W. RAWSON AVE\2050-08-01 S 13TH ST TO W HOWELL AVE\DESIGN\PLANS\2050080139202.DWG 10/30/2020 5:53 PM
LAYOUT NAME - 00

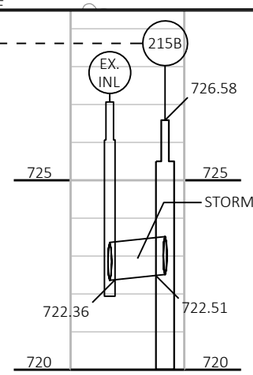
PLOT BY : HILLIARD, MARC PLOT NAME : PLOT SCALE : 1 IN:40 FT

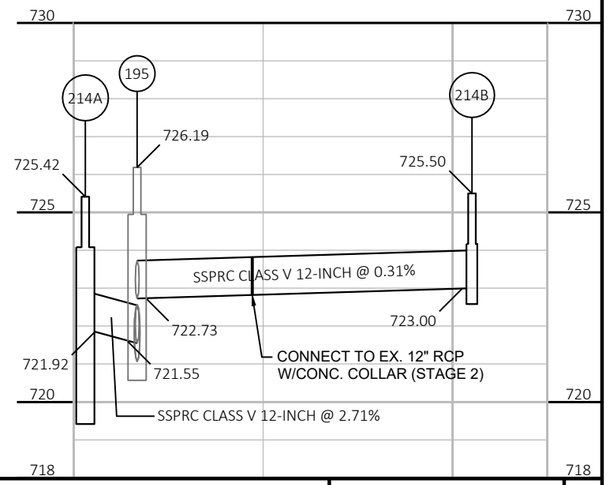
WISDOT/CADDS SHEET 41





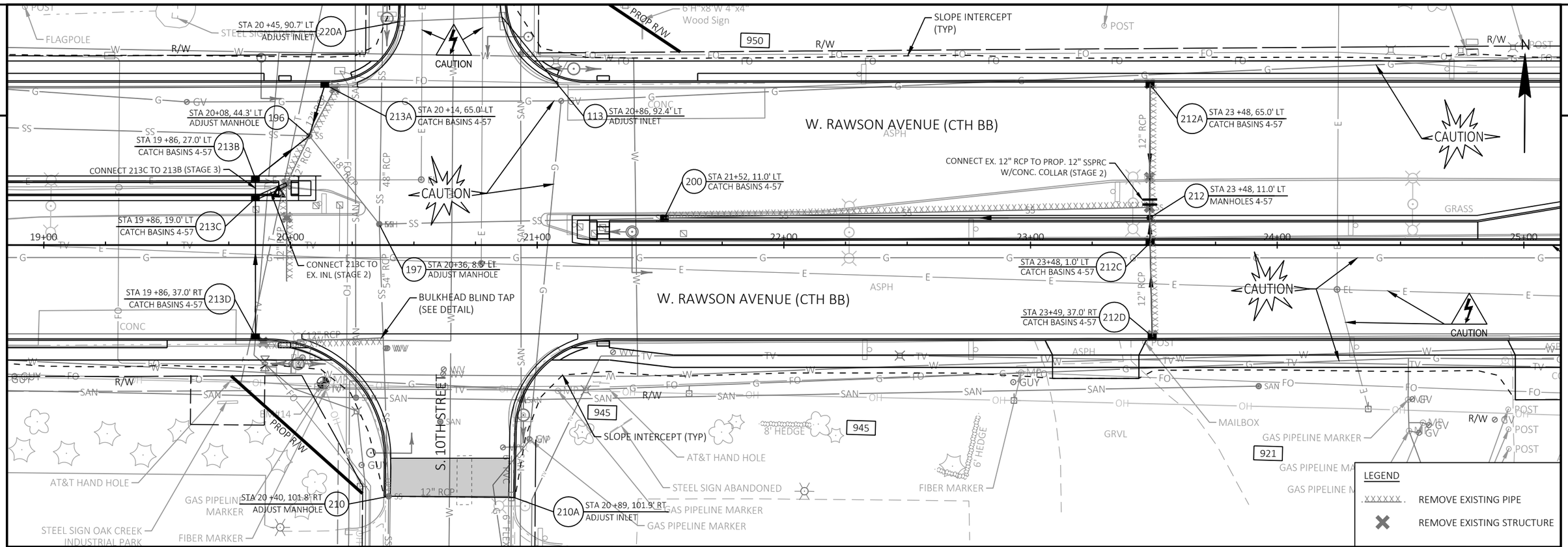


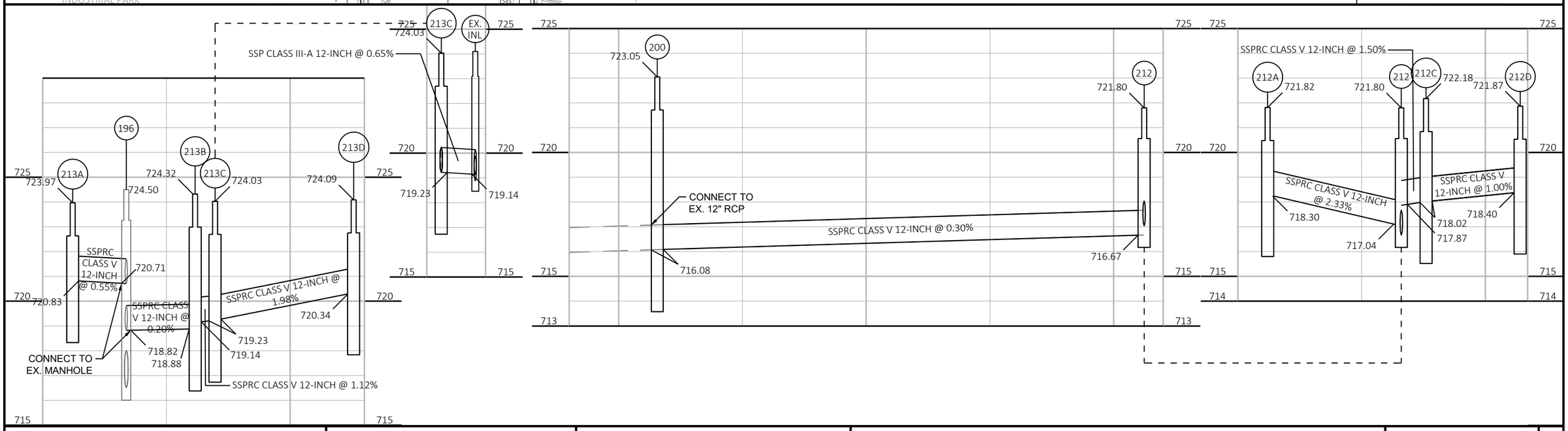




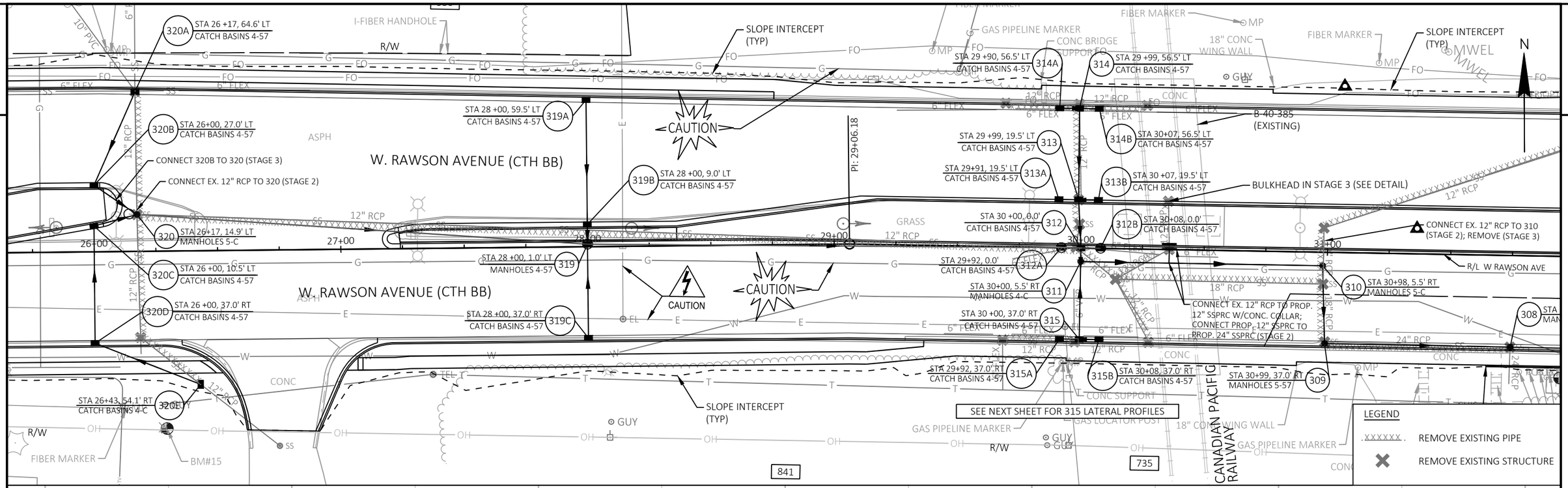
PROJECT NO: 2050-08-71	HWY: CTH BB	COUNTY: MILWAUKEE	STORM SEWER (200)	SHEET 70 E

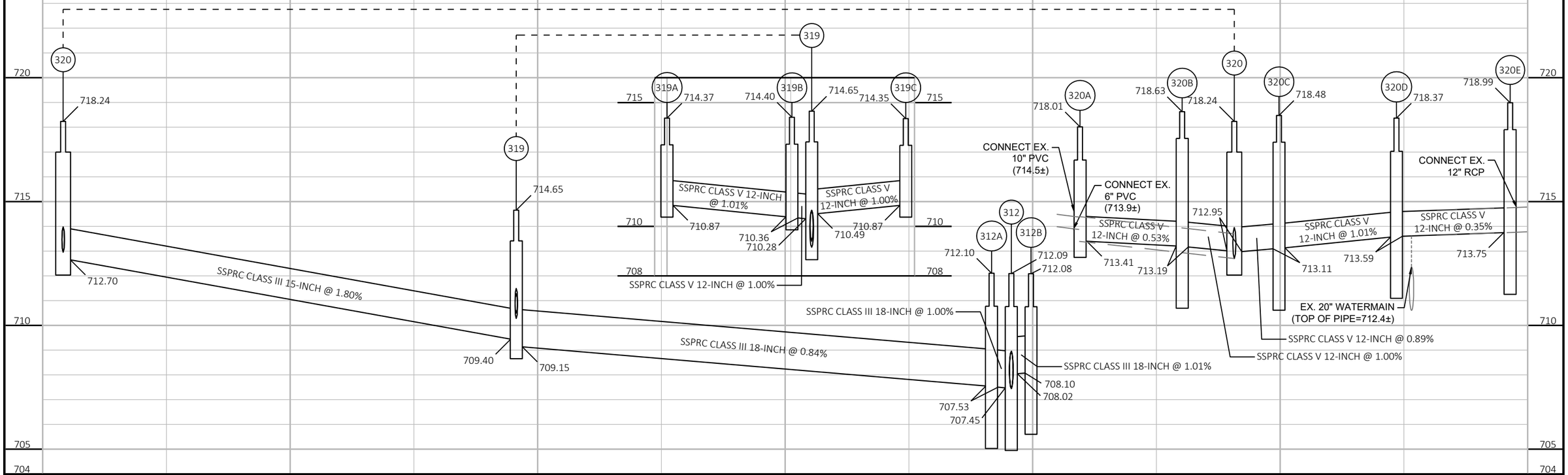
FILE NAME : \\W3027S02\DPPI$\DPW PROFESSIONAL\DATA\HIGHWAY OPERATIONS CONTROL FILE\CENTRAL FILES\2010-2014\CTH BB - W. RAWSON AVE\2050-08-01 S 13TH ST TO W HOWELL AVE\DESIGN\PLANS\2050-08-71_PLAN.DWG
LAYOUT NAME - 01
PLOTTED : 10/26/2016 5:53 PM
PLOT BY : HILLIARD, MARC
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 41





PROJECT NO: 2050-08-71	HWY: CTH BB	COUNTY: MILWAUKEE	STORM SEWER (200)	SHEET 71	E





PROJECT NO: 2050-08-71	HWY: CTH BB	COUNTY: MILWAUKEE	STORM SEWER (300)	SHEET 72	E

2

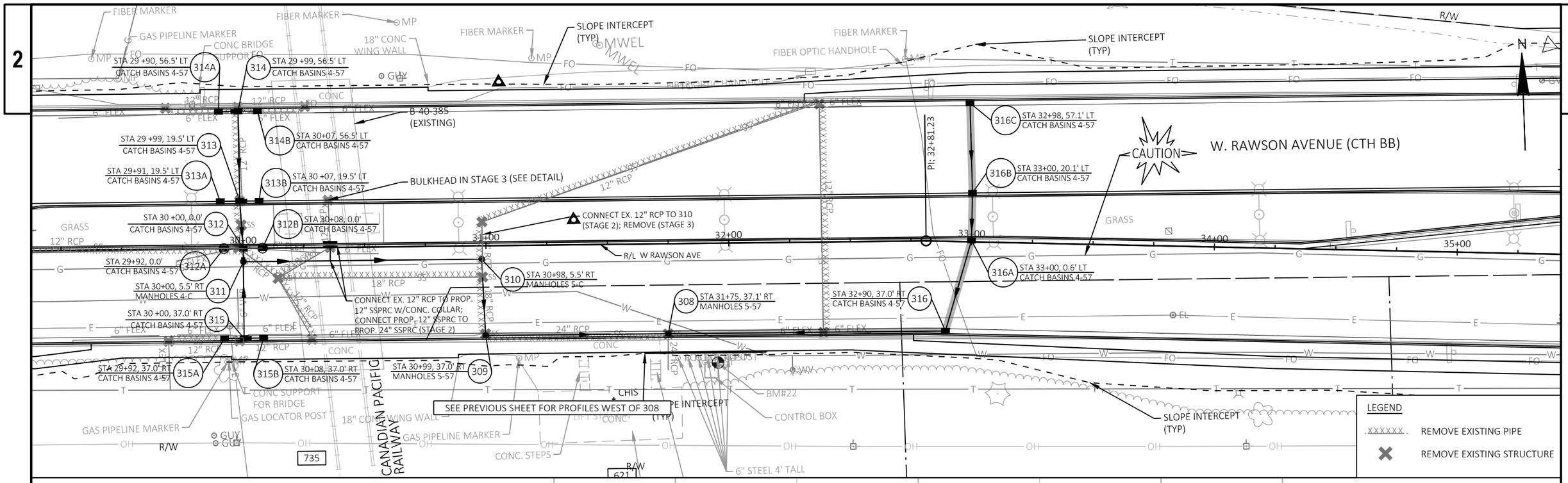
FIBER MARKER
GAS PIPELINE MARKER
CONC BRIDGE SUPPORT
FIBER MARKER
18" CONC WING WALL
FIBER MARKER
SLOPE INTERCEPT (TYP)
MWEL
FIBER MARKER
FIBER OPTIC HANDHOLE
SLOPE INTERCEPT (TYP)
R/W
N
STA 29 +90, 56.5' LT CATCH BASINS 4-57 — 314A
314 — STA 29 +99, 56.5' LT CATCH BASINS 4-57
B-40-385 (EXISTING)
STA 29 +99, 19.5' LT CATCH BASINS 4-57 — 313
313A — STA 29+91, 19.5' LT CATCH BASINS 4-57
314B — STA 30+07, 56.5' LT CATCH BASINS 4-57
313B — STA 30 +07, 19.5' LT CATCH BASINS 4-57
BULKHEAD IN STAGE 3 (SEE DETAIL)
316C — STA 32+98, 57.1' LT CATCH BASINS 4-57
PI: 32+81.23
CAUTION
W. RAWSON AVENUE (CTH BB)
316B — STA 33+00, 20.1' LT CATCH BASINS 4-57
STA 30 +00, 0.0' CATCH BASINS 4-57 — 312
312B — STA 30+08, 0.0' CATCH BASINS 4-57
CONNECT EX. 12" RCP TO 310 (STAGE 2); REMOVE (STAGE 3)
R/L W RAWSON AVE
STA 29+92, 0.0' CATCH BASINS 4-57 — 312A
310 — STA 30+98, 5.5' RT MANHOLES 5-C
316A — STA 33+00, 0.6' LT CATCH BASINS 4-57
STA 30+00, 5.5' RT MANHOLES 4-C — 311
CONNECT EX. 12" RCP TO PROP. 12" SSPRC W/CONC. COLLAR; CONNECT PROP. 12" SSPRC TO PROP. 24" SSPRC (STAGE 2)
308 — STA 31+75, 37.1' RT MANHOLES 5-57
STA 32+90, 37.0' RT CATCH BASINS 4-57 — 316
STA 30 +00, 37.0' RT CATCH BASINS 4-57 — 315
STA 29+92, 37.0' RT CATCH BASINS 4-57 — 315A
315B — STA 30+08, 37.0' RT CATCH BASINS 4-57
STA 30+99, 37.0' RT MANHOLES 5-57 — 309
SEE NEXT SHEET FOR PROFILES EAST OF 308
CANADIAN PACIFIC RAILWAY
CONC SUPPORT FOR BRIDGE
GAS LOCATOR POST
GAS PIPELINE MARKER
18" CONC WING WALL
CONC. STEPS
LIFT STATION
CHIS
SLOPE INTERCEPT (TYP)
BM#22
CONTROL BOX
6" STEEL 4' TALL
SLOPE INTERCEPT (TYP)
735
R/W 621

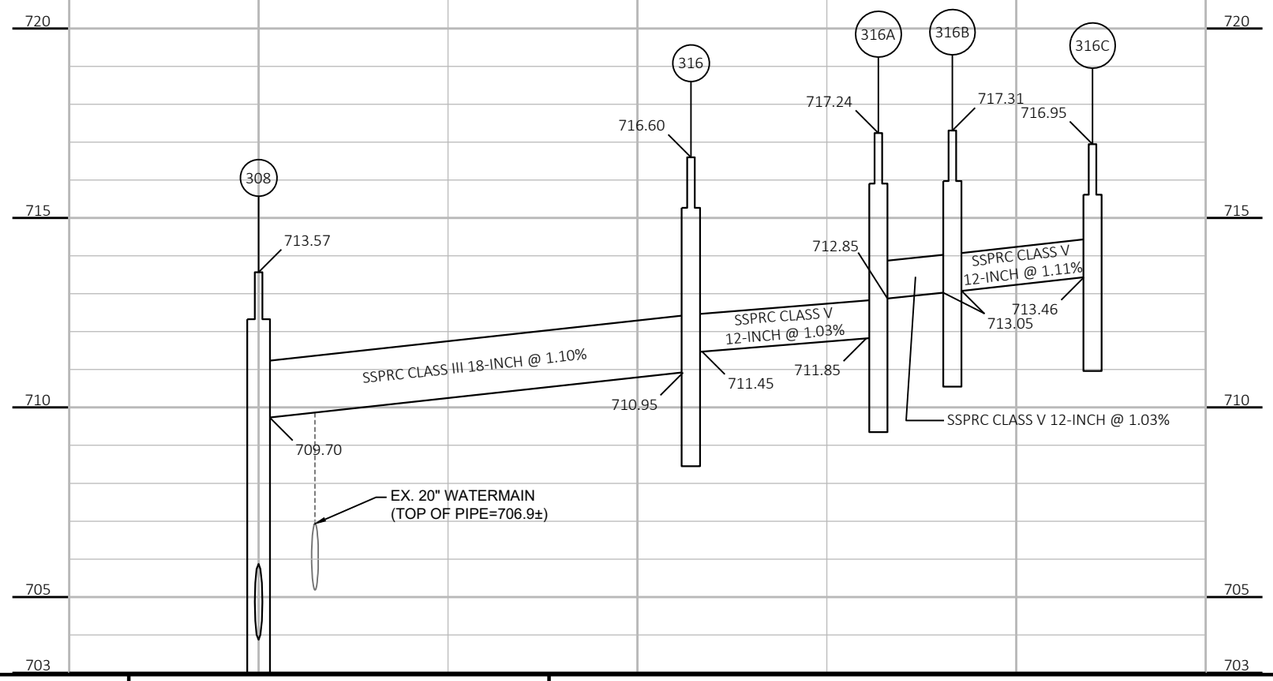
LEGEND
XXXXXX REMOVE EXISTING PIPE
REMOVE EXISTING STRUCTURE

313 712.11; 313A 712.13; 313B 712.11; SSPRC CLASS III 18-INCH @ 1.00%; 708.11; 708.03; 708.11; 708.03
314 711.77; 314B 711.77; 314A 711.77; 711.79; SSPRC CLASS III 18-INCH @ 0.50%; 708.06; 708.02; 708.06; 708.02
313 712.11; 312 712.09; 311 712.20; 314 711.77; SSPRC CLASS III 18-INCH @ 1.00%; 708.02; 707.65; 707.45; 707.39; SSPRC CLASS III 18-INCH @ 1.02%; SSPRC CLASS III 18-INCH @ 1.09%
311 712.20; 315 711.86; EX. 20" WATERMAIN (TOP OF PIPE=706.0±); SSPRC CLASS III 18-INCH @ 0.51%; 707.40; 707.56; EX. 20" WATERMAIN (TOP OF PIPE=704.6±)
310 712.69; 309 712.36; SSPRC CLASS III 24-INCH @ 1.01%; SSPRC CLASS III 24-INCH @ 1.01%; SSPRC CLASS III 24-INCH @ 2.94%; 706.40; 706.08; 703.87; CONNECT TO EX. 24" RCP (INV=703.5±)
308 713.57; 315 711.87; 315A 711.86; 315B 711.85; SSPRC CLASS III 18-INCH @ 0.50%; 707.60; 707.56; 707.60; 707.56; SSPRC CLASS III 18-INCH @ 0.50%

PROJECT NO: 2050-08-71	HWY: CTH BB	COUNTY: MILWAUKEE	STORM SEWER (300)	SHEET 73	E

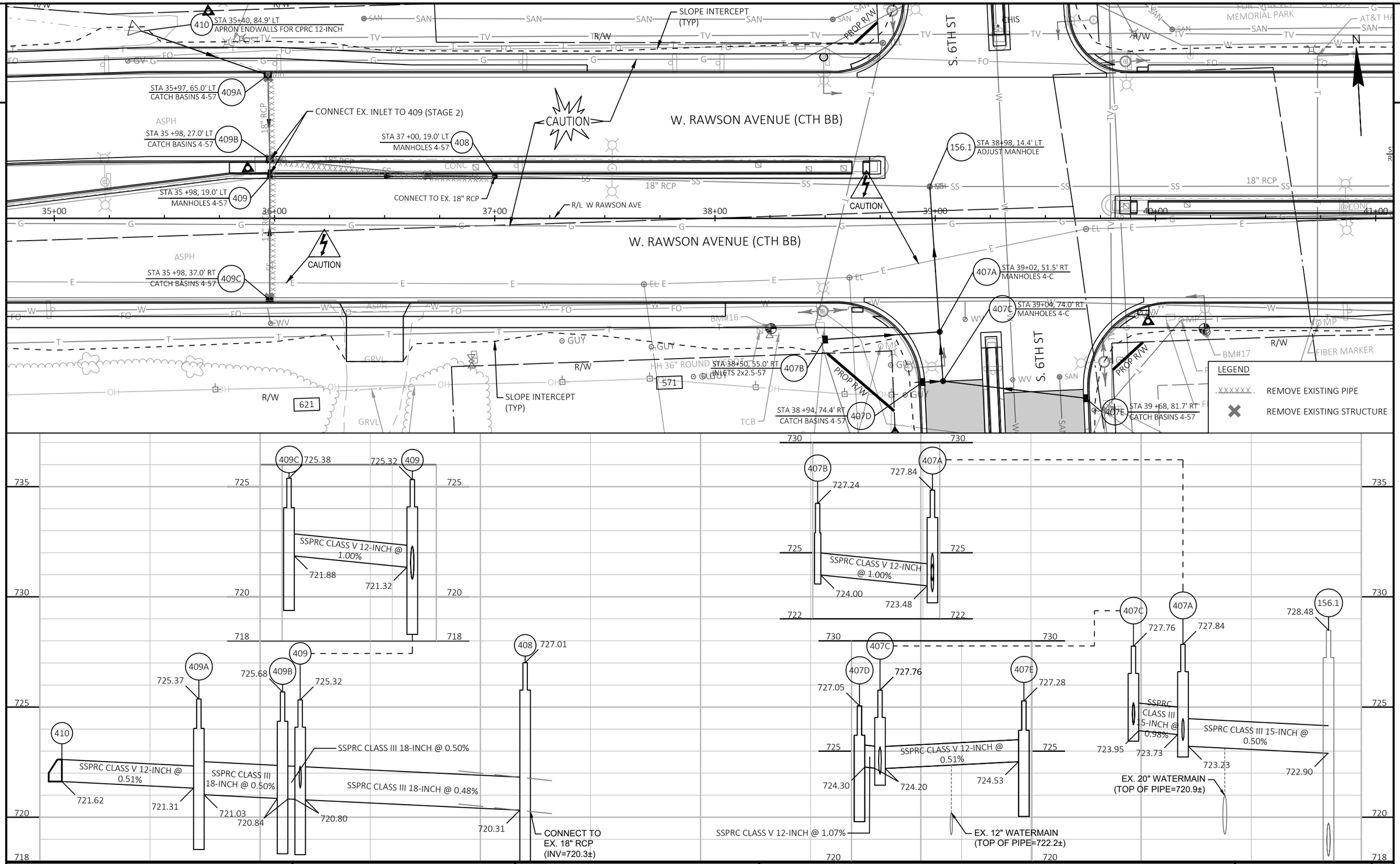
FILE NAME : \\W3027S02\DPPI$\DPW PROFESSIONAL\DATA\HIGHWAY OPERATIONS CONTROL FILE\CENTRAL FILES\2010-2014\CTH BB - W. RAWSON AVE\2050-08-01 S 13TH ST TO W HOWELL AVE\DESIGN\PLANS\2050080136201W5.dgn
LAYOUT NAME - 03b
PLOTTED : 10/26/2016 5:55 PM
PLOT BY : HILLIARD, MARC
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 41





PROJECT NO: 2050-08-71	HWY: CTH BB	COUNTY: MILWAUKEE	STORM SEWER (300)	SHEET 74	E

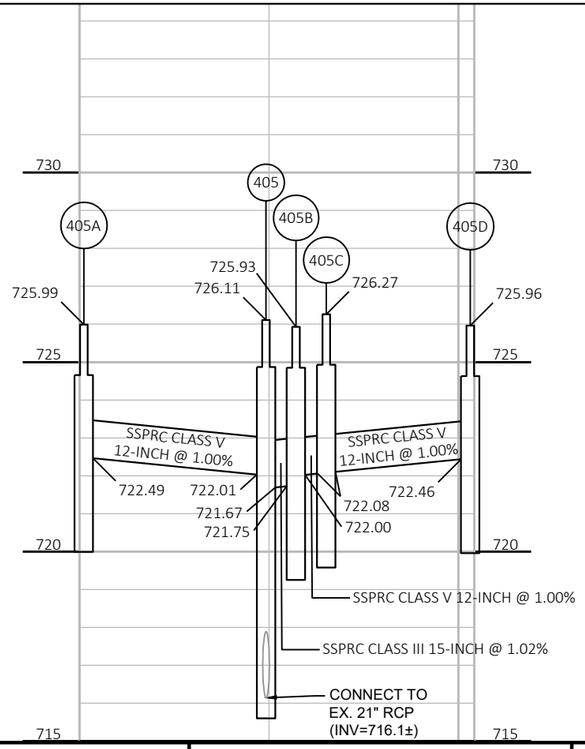
FILE NAME : \\W3027S02\DPPI$\DPW PROFESSIONAL\DATA\HIGHWAY OPERATIONS CONTROL FILE\CENTRAL FILES\2010-2014\CTH BB - W. RAWSON AVE\2050-08-01 S 13TH ST TO W HOWELL AVE\DESIGN\PLANS\2050080736.DWG
LAYOUT NAME - 03c
PLOTTED : 10/26/2016 5:55 PM
PLOT BY : HILLIARD, MARC
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 41

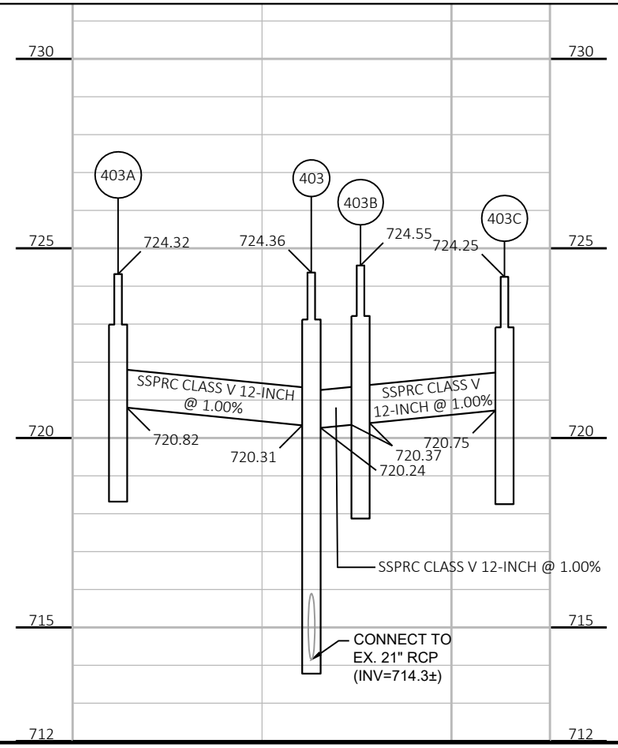


PROJECT NO: 2050-08-71	HWY: CTH BB	COUNTY: MILWAUKEE	STORM SEWER (400)	SHEET 75	E

FILE NAME : \\W3027S02\DPPIS\DPW PROFESSIONAL\DATA\HIGHWAY OPERATIONS CONTROL FILE\CENTRAL FILES\2010-2014\CTH BB - W. RAWSON AVE\2050-08-01 S 13TH ST TO W HOWELL AVE\DESIGN\PLANS\2050-08-71_SHEET.DWG 5:55 PM
LAYOUT NAME - 04
PLOT BY : HILLIARD, MARC PLOT NAME : PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 41

AT&T HANDHOLE
R/W
CAUTION
STA 42 +69, 65.0' LT
CATCH BASINS 4-57
405A
SLOPE INTERCEPT (TYP)
CONNECT TO EX. 21" RCP
BULKHEAD IN STAGE 3
(SEE DETAIL)
STA 42 +69, 16.9' LT
MANHOLES 4-C
405
STA 41+55, 14.7' LT
RECONSTRUCT MANHOLE-C
406
STA 42 +69, 9.0' LT
CATCH BASINS 4-57
405B
21" RCP
12" RCP
W. RAWSON AVENUE (CTH BB)
ASPH
CONC
GRASS
41+00
42+00
43+00
44+00
45+00
46+00
47+00
R/L W RAWSON AVE
STA 42 +69, 1.0' LT
CATCH BASINS 4-57
405C
STA 42 +69, 37.0' RT
CATCH BASINS 4-57
405D
BULKHEAD SOUTH BLIND TAP
(SEE DETAIL)
PI 42+89.57
BM#18
2' STONE
1.5' STONE
TLE
FILLED W/1"
14" POST SIGN
FARM & FLEET
STA 44+89, 14.0' LT
RECONSTRUCT MANHOLE-C
163
STA 45 +80, 65.0' LT
CATCH BASINS 4-57
403A
STA 45 +80, 14.0' LT
MANHOLES 4-57
403
STA 45 +80, 1.0' LT
CATCH BASINS 4-57
403B
STA 45 +80, 37.0' RT
CATCH BASINS 4-57
403C
MAILBOX
HEDGE
LEGEND
XXXXXX REMOVE EXISTING PIPE
REMOVE EXISTING STRUCTURE


730
725
720
715
405
405A
405B
405C
405D
725.99
725.93
726.11
726.27
725.96
722.49
722.01
721.67
721.75
722.08
722.00
722.46
SSPRC CLASS V 12-INCH @ 1.00%
SSPRC CLASS V 12-INCH @ 1.00%
SSPRC CLASS V 12-INCH @ 1.00%
SSPRC CLASS III 15-INCH @ 1.02%
CONNECT TO EX. 21" RCP (INV=716.1±)


730
725
720
715
712
403A
403
403B
403C
724.32
724.36
724.55
724.25
720.82
720.31
720.75
720.37
720.24
SSPRC CLASS V 12-INCH @ 1.00%
SSPRC CLASS V 12-INCH @ 1.00%
SSPRC CLASS V 12-INCH @ 1.00%
CONNECT TO EX. 21" RCP (INV=714.3±)

PROJECT NO: 2050-08-71	HWY: CTH BB	COUNTY: MILWAUKEE	STORM SEWER (400)	SHEET 77	E

FILE NAME : \\W3027S02\DPPIS\DPW PROFESSIONAL\DATA\HIGHWAY OPERATIONS CONTROL FILE\CENTRAL FILES\2010-2014\CTH BB - W. RAWSON AVE\2050-08-01 S 13TH ST TO W HOWELL AVE\DESIGN\PLANS\2050-08-71_SS_400.DWG 10/30/2024 5:56 PM
LAYOUT NAME - 06
PLOT BY : HILLIARD, MARC
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 41

STA 55+68, 65.0' LT
CATCH BASINS 4-57
502B

STA 55+60, 65.0' LT
CATCH BASINS 4-57
502A

* ADJUST MANHOLE FOR CROSSOVER IN STAGE 1;
ADJUST MANHOLE FOR MEDIAN IN STAGE 4

STA 57+10, 65.0' LT
CATCH BASINS 4-57
503A

STA 54+89, 27.0' LT
CATCH BASINS 4-57
501A

STA 55 +65, 27.0' LT
INLETS 2.5x3-57
502C

STA 54+89, 18.9' LT
CATCH BASINS 4-57
501B

STA 55 +57, 27.0' LT
INLETS 2x2.5-57
502E

BULKHEAD IN STAGE 3
(SEE DETAIL)

177
STA 55 +79, 14.0' LT
RECONSTRUCT MANHOLE-C

CONNECT TO EX. 12" RCP

STA 57+00, 9.0' LT
CATCH BASINS 4-57
503B

128
STA 57+10, 12.9' LT
RECONSTRUCT MANHOLE-C*

STA 55 +57, 19.0' LT
INLETS 2x2.5-57
502F

BULKHEAD SOUTH BLIND TAP
(SEE DETAIL)

STA 55 +65, 19.0' LT
MANHOLES 4-57
502D

W. RAWSON AVENUE (CTH BB)

W. RAWSON AVENUE (CTH BB)

CAUTION

CAUTION

CAUTION

CAUTION

R/L W RAWSON AVE

STA 55+57, 37.1' RT
CATCH BASINS 4-57
502G

503C
STA 57 +10, 40.0' RT
CATCH BASINS 4-57

STA 55+65, 38.3' RT
CATCH BASINS 4-57
502H

503D
STA 57+16, 70.3' RT
INLETS 2x2.5-57

S. 1ST STREET

GAS PIPELINE MARKER

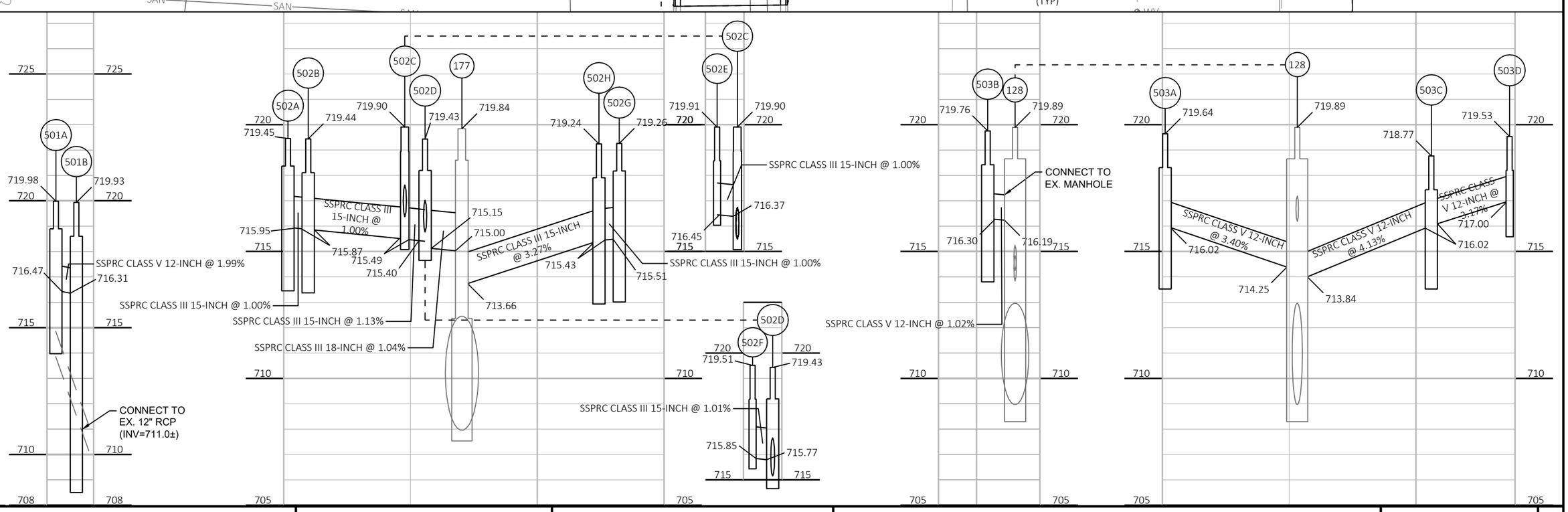
GAS PIPELINE
MARKER

SLOPE INTERCEPT
(TYP)

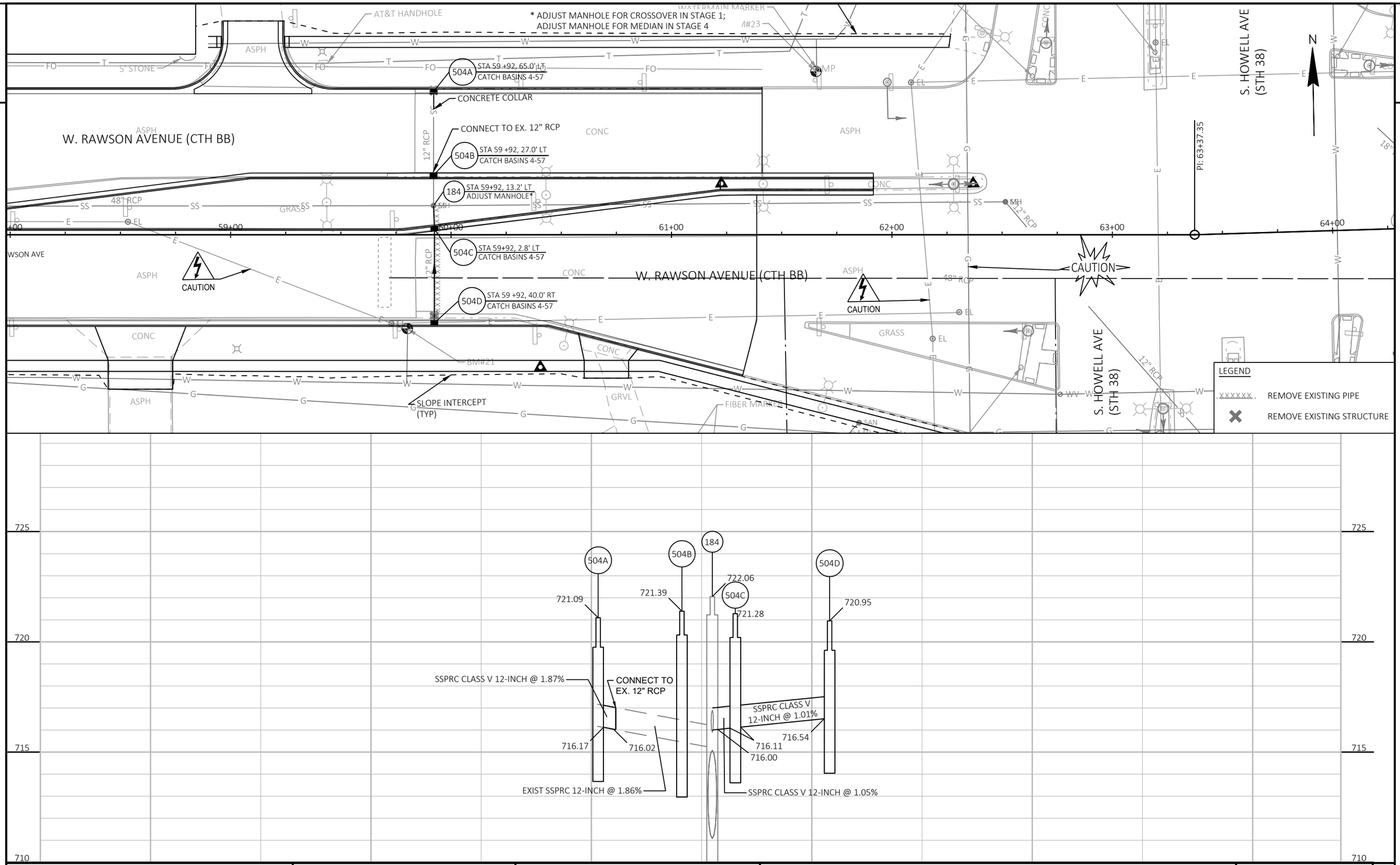
LEGEND

XXXXXX REMOVE EXISTING PIPE

REMOVE EXISTING STRUCTURE



PROJECT NO: 2050-08-71	HWY: CTH BB	COUNTY: MILWAUKEE	STORM SEWER (500)	SHEET 78 E



PROJECT NO: 2050-08-71	HWY: CTH BB	COUNTY: MILWAUKEE	STORM SEWER (500)	SHEET 79	E

FILE NAME : \\W3027S02\DPPI$\DPW PROFESSIONAL\DATA\HIGHWAY OPERATIONS CONTROL FILE\CENTRAL FILES\2010-2014\CTH BB - W. RAWSON AVE\2050-08-01 S 13TH ST TO W HOWELL AVE\DESIGN PLANS\2050080136202.dwg
LAYOUT NAME - 08
PLOTTED : 10/26/2020 6:57 PM
PLOT BY : HILLIARD, MARC
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 41

2

PAVEMENT MARKING LEGEND

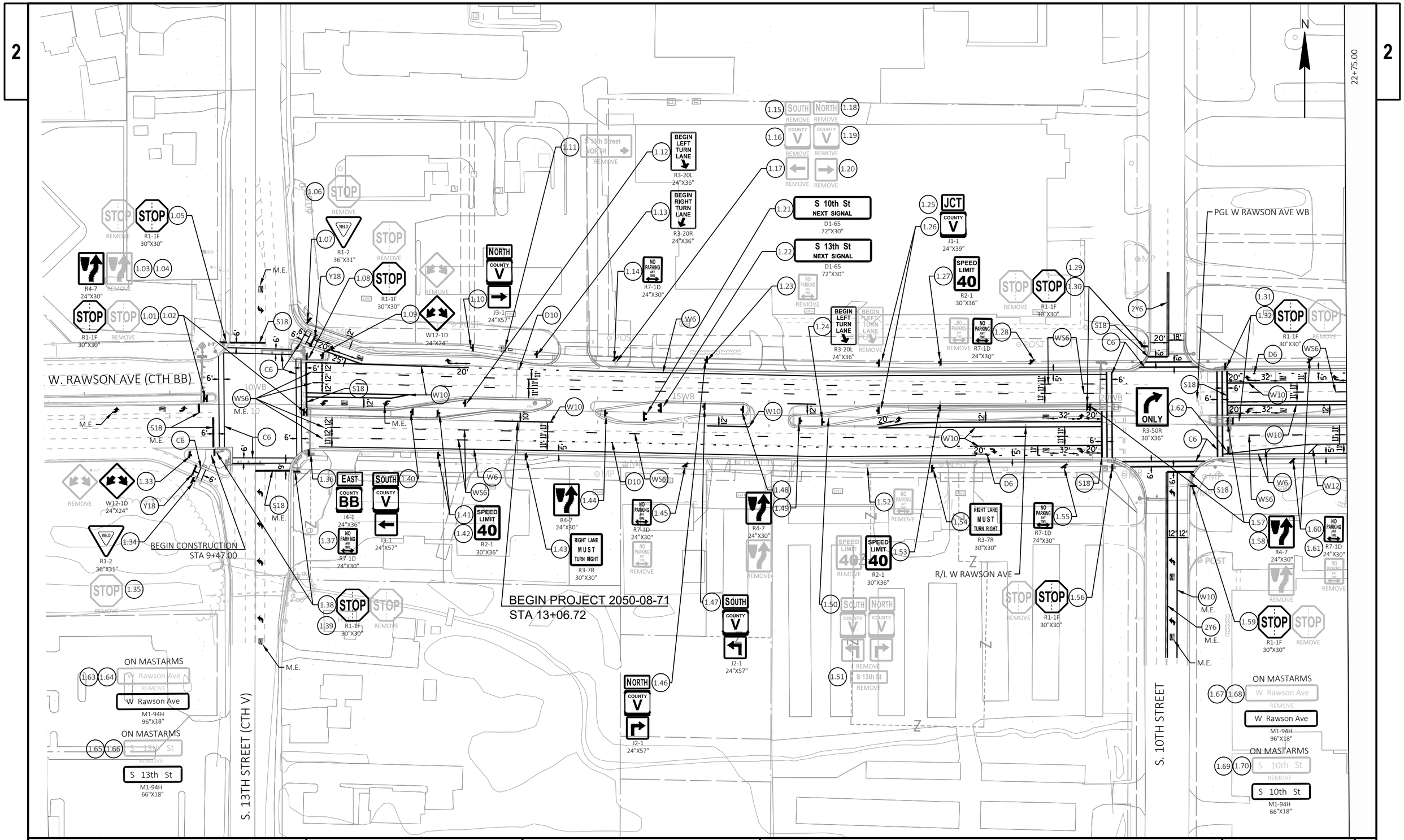
- (WS6) MARKING LINE EPOXY 6-INCH (SKIPS) WHITE, 12.5FT LINE, 37.5 FT GAP
- (D6) MARKING LINE EPOXY 6-INCH (DASHES) WHITE, 3FT LINE, 9 FT GAP
- (D10) MARKING LINE EPOXY 10-INCH (DASHES) WHITE, 3FT LINE, 9 FT GAP
- (2Y6) MARKING LINE EPOXY 6-INCH DOUBLE YELLOW
- (C6) MARKING LINE EPOXY 6-INCH WHITE, CROSSWALK
- (M.E.) MATCH EXISTING
- (W6) MARKING LINE EPOXY 6-INCH WHITE
- (W10) MARKING LINE EPOXY 10-INCH WHITE
- (W12) MARKING DIAGONAL EPOXY 12-INCH WHITE, 45DEG, 50FT SPACING - UNLESS OTHERWISE SPECIFIED
- (S18) MARKING STOP LINE EPOXY 18-INCH WHITE
- (Y18) MARKING YIELD LINE EPOXY 18-INCH WHITE
- MARKING ARROW EPOXY
- ONLY MARKING WORD EPOXY

NOTES
-INSTALL COLD WEATHER MARKING EPOXY IF THE AMBIENT AND PAVEMENT TEMPERATURES ARE BELOW WHAT IS SPECIFIED IN STANDARD SPECIFICATION 646.3.1.3. COMPLETELY REMOVE AND REPLACE COLD WEATHER MARKING EPOXY WITH PERMANENT MARKING ONCE AMBIENT AND PAVEMENT TEMPERATURES PERMIT.

SIGN LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON SIGNAL OR STRUCTURE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON SIGNAL OR STRUCTURE
- (XXX) DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE
- E.T.R. EXISTING TO REMAIN

NOTES
-EXISTING STREET NAME SIGNS NOT LOCATED ON SIGNAL POLES ARE MUNICIPAL OWNED AND ARE TO BE REMOVED AND RE-INSTALLED BY OTHERS.
-ANY SIGNS NOT CALLED OUT FOR REMOVAL SHALL REMAIN UNLESS OTHERWISE INSTRUCTED BY THE ENGINEER.

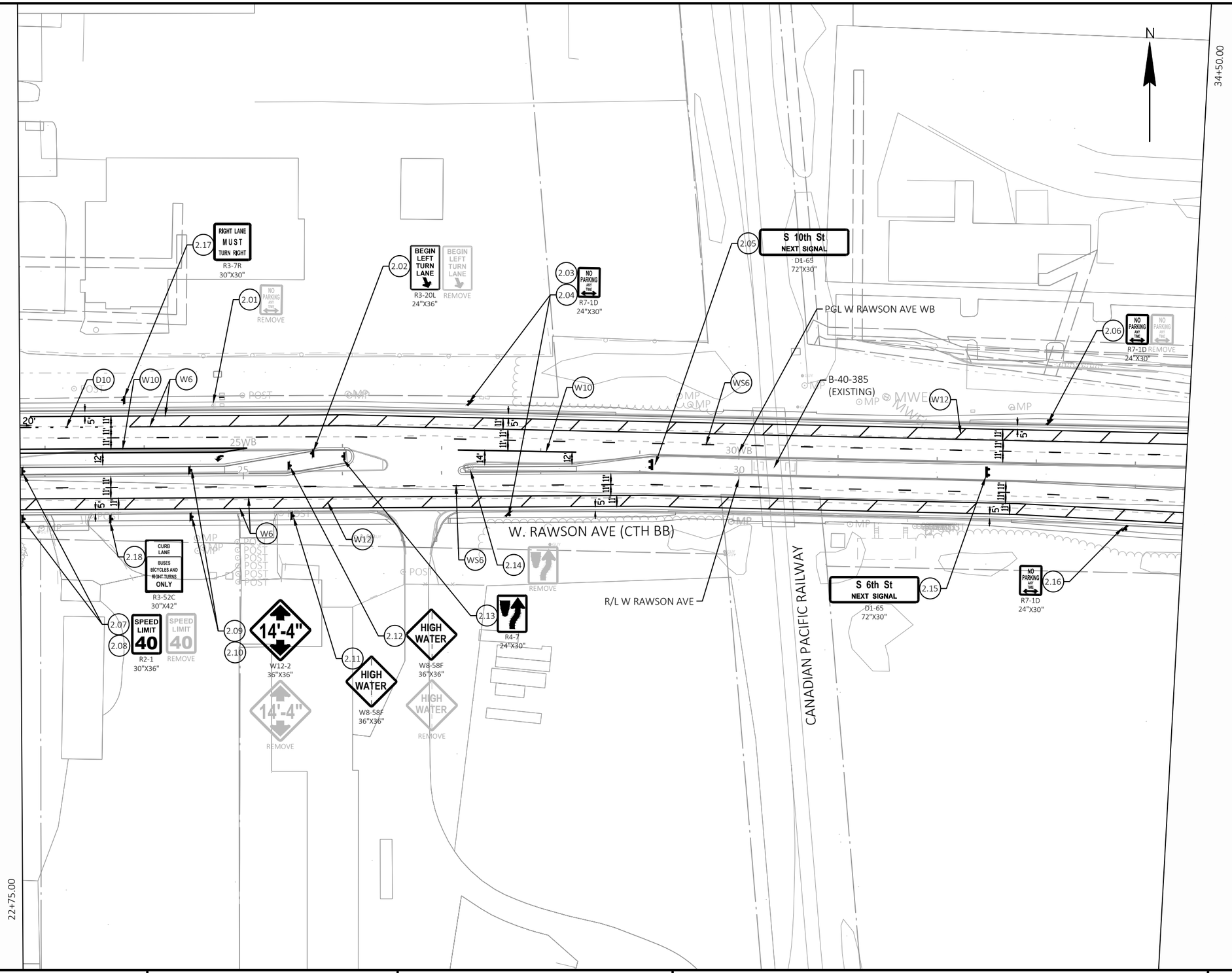


PROJECT NO: 2050-08-71	HWY: BB	COUNTY: MILWAUKEE	SIGNING AND PAVEMENT MARKING	SHEET 81	E

FILE NAME : O:\HIGHWAY OPERATIONS CONTROL FILE\CENTRAL FILES\2010-2014\CTH BB - W. RAWSON AVE\2050-08-01 S 13TH ST TO W HOWELL AVE\DESIGN\PLANS\20500801_PMPS.DWG
LAYOUT NAME - 02
PLOT DATE : 10/30/2024 1:25 PM
PLOT BY : THORNBURG, ALEX
PLOT NAME :
PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2



PROJECT NO: 2050-08-71	HWY: BB	COUNTY: MILWAUKEE	SIGNING AND PAVEMENT MARKING	SHEET 82	E

FILE NAME : O:\HIGHWAY OPERATIONS CONTROL FILE\CENTRAL FILES\2010-2014\CTH BB - W. RAWSON AVE\2050-08-01 S 13TH ST TO W HOWELL AVE\DESIGN\PLANS\20500801_PMPS.DWG
LAYOUT NAME - 03
PLOT DATE : 10/30/2024 1:25 PM
PLOT BY : THORNBURG, ALEX
PLOT NAME :
PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 42

2

OAK CREEK FIRE DEPT.

OAK CREEK VETERANS MEMORIAL PARK

N

48+00.00

34+50.00

W. RAWSON AVE (CTH BB)

S. 6TH STREET

3.01 BEGIN LEFT TURN LANE R3-20L 24"X36" REMOVE

3.02 3.03 SPEED LIMIT 40 R2-1 30"X36" REMOVE

3.04 NO PARKING ANY TIME R7-1D 24"X30"

3.05 3.06 14'-4" W12-2 36"X36" REMOVE

3.07 NO PARKING ANY TIME REMOVE

3.08 WEST COUNTY BB J4-1 24"X36" REMOVE

3.09 HIGH WATER W8-58F 36"X36" REMOVE

3.10 3.11 STOP R1-1F 30"X30" REMOVE

3.12 R4-7 24"X30" REMOVE

3.13 3.14 STOP R1-1F 30"X30"

3.15 NO PARKING ANY TIME R7-1D 24"X30" REMOVE

3.16 REMOVE

3.17 JCT S 6th St REMOVE

3.18 80 REMOVE

3.19 REMOVE

3.20 REMOVE

3.21 BEGIN LEFT TURN LANE R3-20L 24"X36" REMOVE

3.22 REMOVE

3.23 NO PARKING ANY TIME R7-1D 24"X30" REMOVE

3.24 NO PARKING ANY TIME R7-1D 24"X30" REMOVE

3.25 3.26 STOP R1-1F 30"X30" REMOVE

3.27 3.28 R4-7 24"X30" REMOVE

3.29 3.30 STOP R1-1F 30"X30" REMOVE

3.31 R4-7 24"X30" REMOVE

3.32 EAST COUNTY BB J4-1 24"X36" REMOVE

3.33 NO PARKING ANY TIME R7-1D 24"X30"

3.34 3.35 SPEED LIMIT 40 R2-1 30"X36" REMOVE

3.36 NO PARKING ANY TIME R7-1D 24"X30" REMOVE

3.37 R4-7 24"X30"

3.38 S 6th St NEXT SIGNAL D1-65 72"X30"

3.39 3.40 W Rawson Ave REMOVE

W Rawson Ave M1-94H 96"X18"

3.41 3.42 S 6th St REMOVE

S 6th St M1-94H 60"X18"

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

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

3.45 CURB LANE BUSES BICYCLES AND RIGHT TURNS ONLY R3-52C 30"X42"

3.46 CURB LANE BUSES BICYCLES AND RIGHT TURNS ONLY R3-52C 30"X42"

WS6 W12 W10 W6 D6 D10 C6 S18 M.E. BMP POST HSE

35WB 45WB

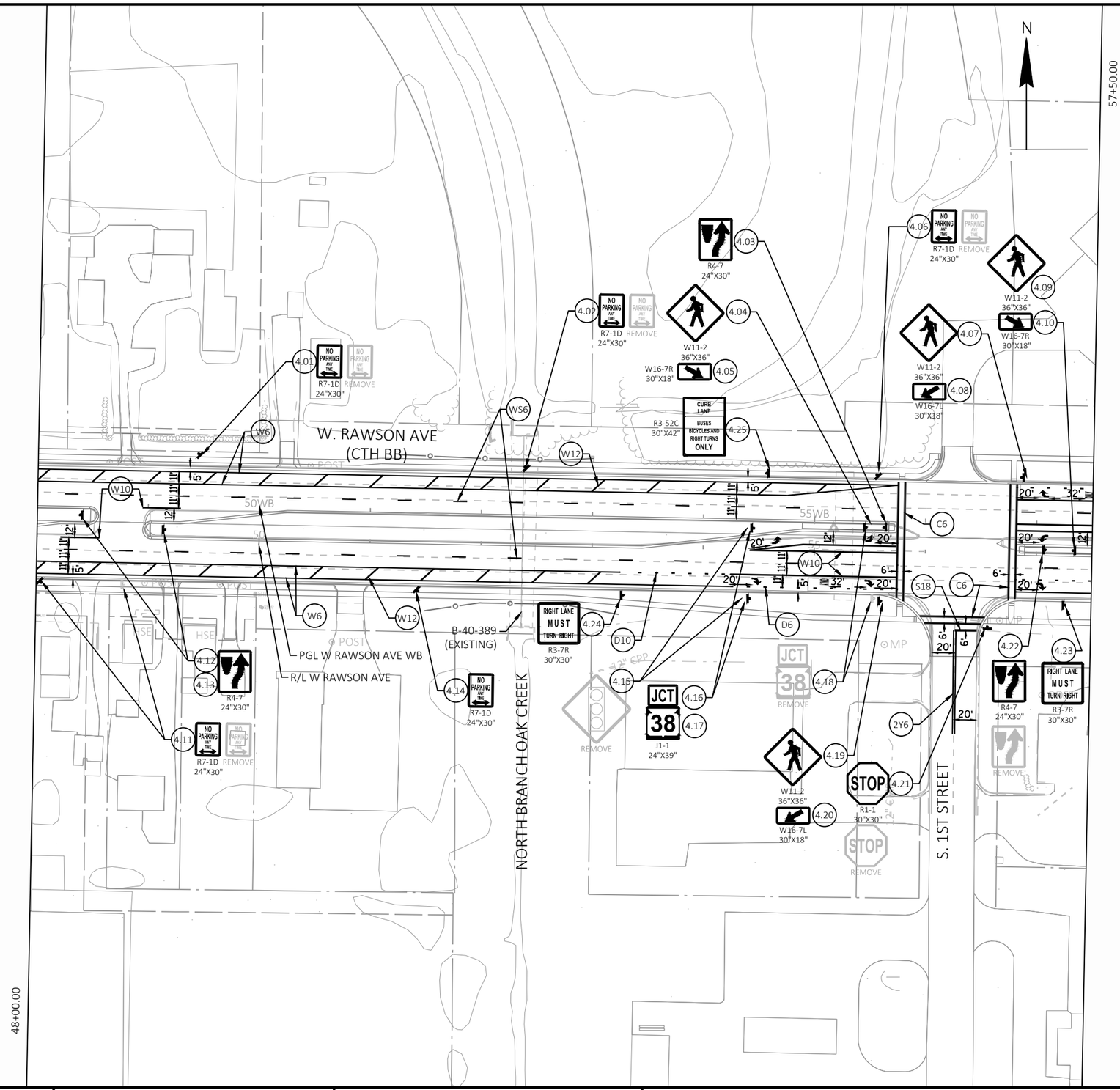
PROJECT NO: 2050-08-71	HWY: BB	COUNTY: MILWAUKEE	SIGNING AND PAVEMENT MARKING	SHEET 83	E

FILE NAME : O:\HIGHWAY OPERATIONS CONTROL FILE\CENTRAL FILES\2010-2014\CTH BB - W. RAWSON AVE\2050-08-01 S 13TH ST TO W HOWELL AVE\DESIGN\PLANS\20500801_PMPS.DWG
LAYOUT NAME - 04

PLOT DATE : 10/30/2024 1:26 PM PLOT BY : THORNBURG, ALEX PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2



PROJECT NO: 2050-08-71	HWY: BB	COUNTY: MILWAUKEE	SIGNING AND PAVEMENT MARKING	SHEET 84	E

2

N

S Howell Ave
NEXT SIGNAL
D1-65
84"X30"

S Howell Ave
NEXT SIGNAL
REMOVE

BEGIN LEFT TURN LANE
REMOVE

BEGIN LEFT TURN LANE
R3-20L
24"X36"

SPEED LIMIT 40
REMOVE

SPEED LIMIT 40
R2-1
30"X36"

NO PARKING ANY TIME
REMOVE

NO PARKING ANY TIME
R7-1D
24"X30"

ONLY ONLY
REMOVE

ONLY ONLY
R3-8LL
36"X30"

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

WEST COUNTY BB
WEST COUNTY BB
J4-1
24"X36"
REMOVE

NO PARKING ANY TIME
R7-1D
24"X30"

W. RAWSON AVE
(CTH BB)

E. RAWSON AVE (CTH BB)

PGL W RAWSON AVE WB

R/L W RAWSON AVE

NORTH SOUTH
38 38
J2-2
48"X57"

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

SOUTH NORTH
38 38
J3-1
24"X57"
REMOVE

E.T.R.

NO PARKING ANY TIME
R7-1D
24"X30"
REMOVE

S. HOWELL AVENUE (STH 38)

END PROJECT 2050-08-71
STA 61+38.66

END CONSTRUCTION
STA 62+51.26

57+50.00

MATCHLINE A-A

PROJECT NO: 2050-08-71	HWY: BB	COUNTY: MILWAUKEE	SIGNING AND PAVEMENT MARKING	SHEET 85	E

FILE NAME : O:\HIGHWAY OPERATIONS CONTROL FILE\CENTRAL FILES\2010-2014\CTH BB - W. RAWSON AVE\2050-08-01 S 13TH ST TO W HOWELL AVE\DESIGN\PLANS\20500801_PMPS.DWG
LAYOUT NAME - 06
PLOT DATE : 10/30/2024 1:26 PM
PLOT BY : THORNBURG, ALEX
PLOT NAME :
PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 42

2

2

N

MATCHLINE A-A

6.01 NO PARKING ANY TIME R7-1D 24"X30"

E.T.R.

W10 D10 W12 W6 WS6 M.E.

32' 14' 20' 12' 14' 14' 12' 14'

E. RAWSON AVE (CTH BB)

6.02 REMOVE

PROJECT NO: 2050-08-71	HWY: BB	COUNTY: MILWAUKEE	SIGNING AND PAVEMENT MARKING	SHEET 86	E

FILE NAME : O:\HIGHWAY OPERATIONS CONTROL FILE\CENTRAL FILES\2010-2014\CTH BB - W. RAWSON AVE\2050-08-01 S 13TH ST TO W HOWELL AVE\DESIGN\PLANS\20500801_PMPS.DWG PLOT DATE : 10/30/2024 1:27 PM PLOT BY : THORNBURG, ALEX PLOT NAME : PLOT SCALE : 1 IN:100 FT

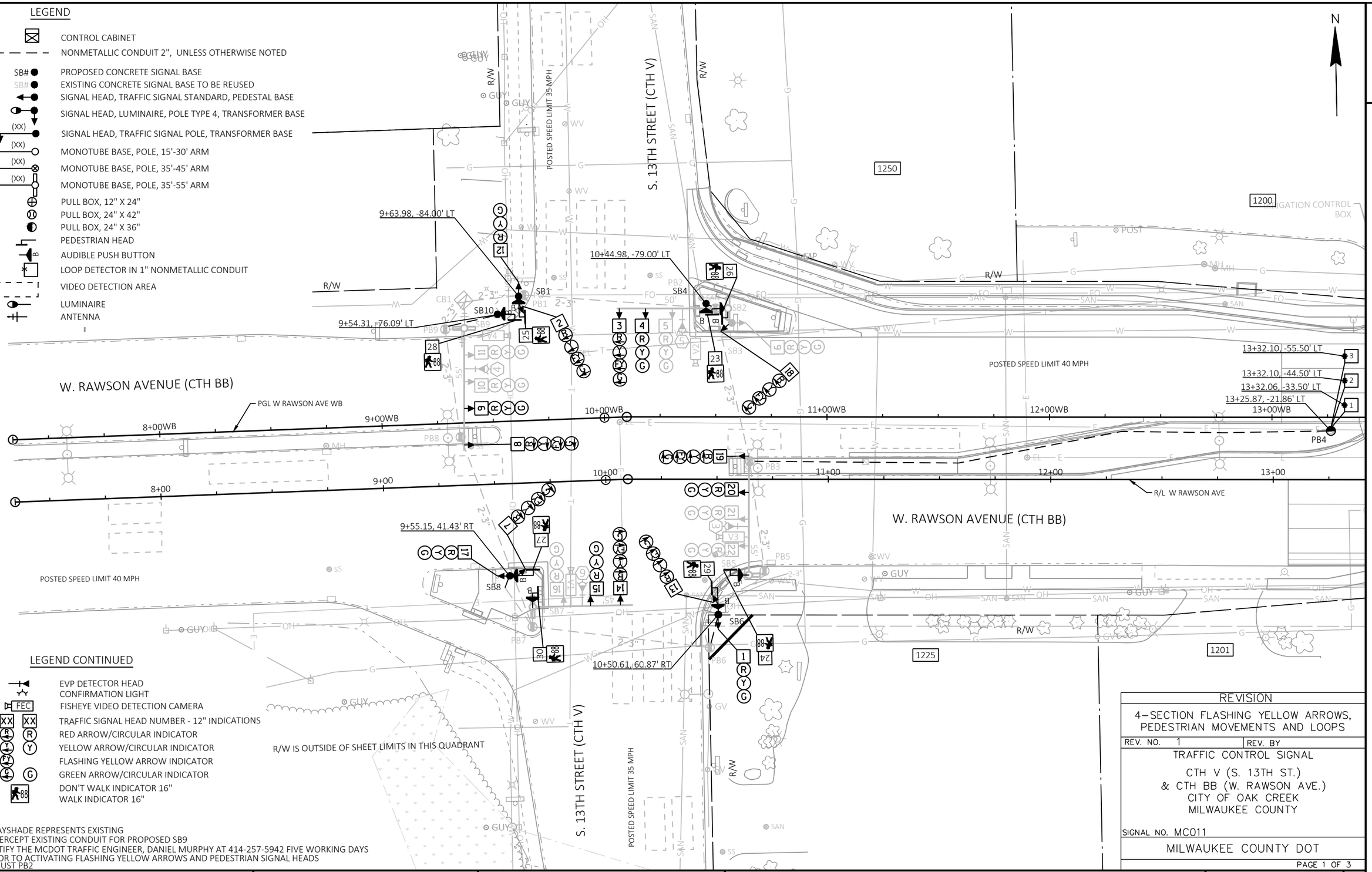
LAYOUT NAME - 07

WISDOT/CADDS SHEET 42

2

LEGEND

- CONTROL CABINET
- NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED
- SB# PROPOSED CONCRETE SIGNAL BASE
- SB# EXISTING CONCRETE SIGNAL BASE TO BE REUSED
- SIGNAL HEAD, TRAFFIC SIGNAL STANDARD, PEDESTAL BASE
- SIGNAL HEAD, LUMINAIRE, POLE TYPE 4, TRANSFORMER BASE
- (XX) SIGNAL HEAD, TRAFFIC SIGNAL POLE, TRANSFORMER BASE
- (XX) MONOTUBE BASE, POLE, 15'-30' ARM
- (XX) MONOTUBE BASE, POLE, 35'-45' ARM
- (XX) MONOTUBE BASE, POLE, 35'-55' ARM
- PULL BOX, 12" X 24"
- PULL BOX, 24" X 42"
- PULL BOX, 24" X 36"
- PEDESTRIAN HEAD
- AUDIBLE PUSH BUTTON
- LOOP DETECTOR IN 1" NONMETALLIC CONDUIT
- VIDEO DETECTION AREA
- LUMINAIRE
- ANTENNA



LEGEND CONTINUED

- EVP DETECTOR HEAD
- CONFIRMATION LIGHT
- FEC FISHEYE VIDEO DETECTION CAMERA
- XX TRAFFIC SIGNAL HEAD NUMBER - 12" INDICATIONS
- R RED ARROW/CIRCULAR INDICATOR
- Y YELLOW ARROW/CIRCULAR INDICATOR
- FYA FLASHING YELLOW ARROW INDICATOR
- G GREEN ARROW/CIRCULAR INDICATOR
- 88 DON'T WALK INDICATOR 16"
- WALK INDICATOR 16"

NOTES:

- GRAYSHADE REPRESENTS EXISTING
- INTERCEPT EXISTING CONDUIT FOR PROPOSED SB9
- NOTIFY THE MCDOT TRAFFIC ENGINEER, DANIEL MURPHY AT 414-257-5942 FIVE WORKING DAYS PRIOR TO ACTIVATING FLASHING YELLOW ARROWS AND PEDESTRIAN SIGNAL HEADS
- ADJUST PB2

REVISION
4–SECTION FLASHING YELLOW ARROWS, PEDESTRIAN MOVEMENTS AND LOOPS
REV. NO. 1 — REV. BY

TRAFFIC CONTROL SIGNAL

CTH V (S. 13TH ST.)
& CTH BB (W. RAWSON AVE.)
CITY OF OAK CREEK
MILWAUKEE COUNTY

SIGNAL NO. MC011

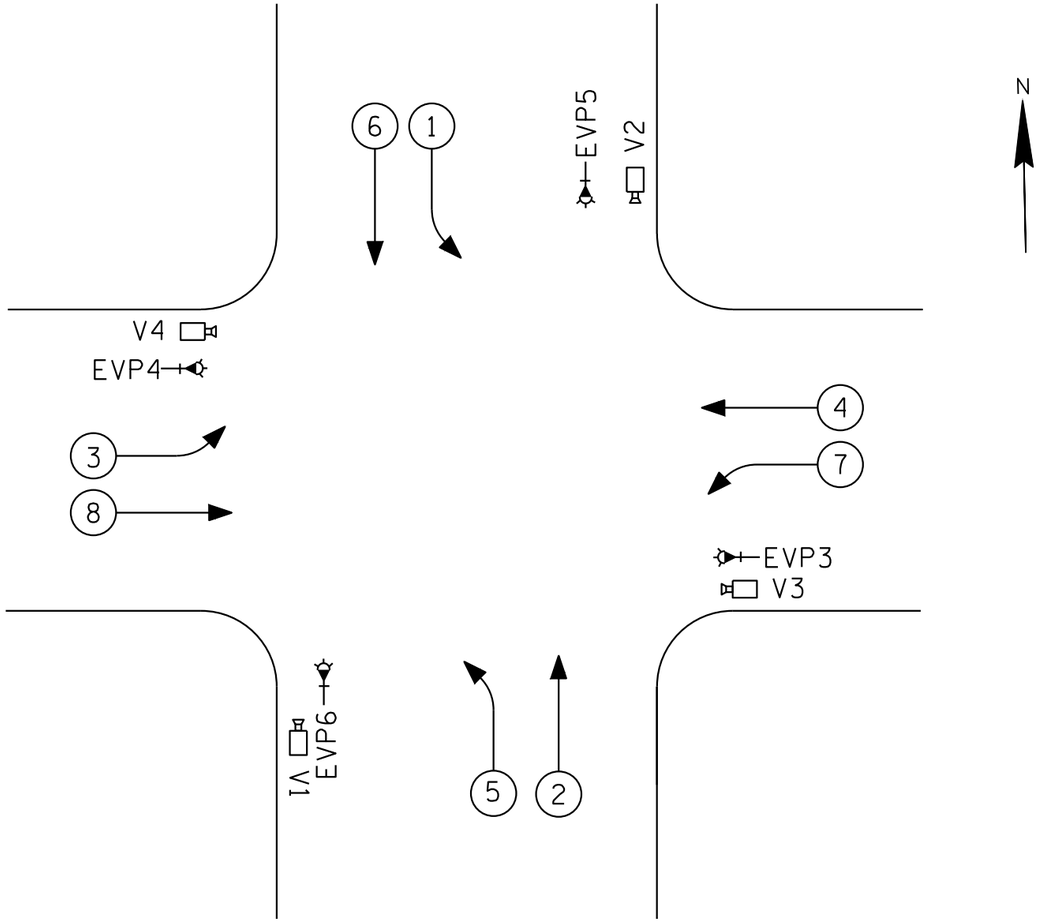
MILWAUKEE COUNTY DOT

PAGE 1 OF 3

PROJECT NO: 2050-08-71	HWY: CTH BB	COUNTY: MILWAUKEE	TRAFFIC SIGNAL PLAN	SHEET 87	E

FILE NAME : O:\HIGHWAY OPERATIONS CONTROL FILE\CENTRAL FILES\2010-2014\CTH BB - W. RAWSON AVE\2050-08-01 S 13TH ST TO W HOWELL AVE\DESIGN\PLANS\20500801_SIG1.DWG
LAYOUT NAME - 01
PLOT DATE : 10/29/2024 3:17 PM
PLOT BY : VIRK, PARWINDER
PLOT NAME :
PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42



PHASES			OVERLAPS				PRE-EMPTION CONFIRMATION BEACONS	
PHASE	VEHICLE	LEFT TURN TYPE	PED	OVLP	INCLUDES	OUTPUT	PRE-EMPT	OUTPUT
1	X	FYA		A			3/EB	13 R
2	X		X	B			4/WB	14 R
3	X	FYA		C			5/NB	15 R
4	X		X	D			6/SB	16 R
5	X	FYA		E	1 FY	9 Y		
6	X		X	F	3 FY	10 Y		
7	X	FYA		G	5 FY	11 Y		
8	X		X	H	7 FY	12 Y		

COMMUNICATION	
ETHERNET SWITCH	X
SM FIBER	X
MM FIBER	
5.8 GHZ RADIO	X
900 MHZ ETHERNET RADIO	
900 MHZ SERIAL RADIO	
ETHERNET OVER COPPER	

AUXILARY EQUIPMENT	
LIGHTING FROM CABINET	
BATTERY BACKUP	
PTZ CAMERA	
AUDIBLE PEDESTRIAN HEADS	
AUDIBLE PEDESTRIAN BUTTONS	X

PRE-EMPTION	
EMERGENCY VEHICLE	X
CONFIRMATION BEACONS	X
RAILROAD	

REVISION

4–SECTION FLASHING YELLOW ARROWS, PEDESTRIAN MOVEMENTS AND LOOPS

REV. NO. 1 REV. BY AHT

TRAFFIC CONTROL SIGNAL

CTH V (S. 13TH ST.)
& CTH BB (W. RAWSON AVE.)
CITY OF OAK CREEK
MILWAUKEE COUNTY

SIGNAL NO. MC011

MILWAUKEE COUNTY DOT

PAGE 2 OF 3

PROJECT NO: 2050-08-71	HWY: CTH BB	COUNTY: MILWAUKEE	TRAFFIC SIGNAL PLAN	SHEET 88	E

FILE NAME : O:\HIGHWAY OPERATIONS CONTROL FILE\CENTRAL FILES\2010-2014\CTH BB - W. RAWSON AVE\2050-08-01 S 13TH ST TO W HOWELL AVE\DESIGN\PLANS\20500801_SIG1.DWG PLOT DATE : 10/29/2024 3:17 PM PLOT BY : VIRK, PARWINDER PLOT NAME : PLOT SCALE : ##########
LAYOUT NAME - 02

WISDOT/CADDS SHEET 42

PROJECT ID:	2050-08-71
INTERSECTION:	CTH V (S.13TH ST.) & CTH BB (W. RAWSON AVE.)

SIGNAL WIRE COLOR CODING	BLK-BLACK	RED-RED	GRN-GREEN
	WHT-WHITE	BLU-BLUE	ORG-ORANGE

CB1 TO	# OF COND.	HEAD NO.	PHASE	SIGNAL INDICATION WIRE COLOR									PED BUTTON	
				RED	YELLOW	GREEN	<RED>	<YELLOW>	<FL YLW>	<GREEN>	D/WALK	WALK		
SB1	12	2	5				RED/BLK	ORG/BLK	BLU/BLK	GRN/BLK				
		12	6	RED	ORG	GRN								
		25	4P								BLU	BLK		
		B	4P										WHT/BLK	BLK/WHT
SB2	*15	3	5				RED/BLK	ORG/BLK	BLU/BLK	GRN/BLK				
		4	2	RED	ORG	GRN								
		5	2	RED	ORG	GRN								
		23	2P								BLU	BLK		
		26	4P								RED/WHT	GRN/WHT		
		B	2P										WHT/BLK	BLK/WHT
SB3	*12	6	4	RED	ORG	GRN								
		18	3				RED/BLK	ORG/BLK	BLU/BLK	GRN/BLK				
SB4	5	B	4P										RED	ORG
SB5	*15	19	3				RED/BLK	ORG/BLK	BLU/BLK	GRN/BLK				
		20	8	RED	ORG	GRN								
		21	8	RED	ORG	GRN								
		22	8	RED	ORG	GRN								
		24	2P								BLU	BLK		
		B	2P										WHT/BLK	BLK/WHT
SB6	12	1	2	RED	ORG	GRN								
		13	1				RED/BLK	ORG/BLK	BLU/BLK	GRN/BLK				
		29	8P								BLU	BLK		
		B	8P										WHT/BLK	BLK/WHT
SB7	*15	14	1				RED/BLK	ORG/BLK	BLU/BLK	GRN/BLK				
		15	6	RED	ORG	GRN								
		16	6	RED	ORG	GRN								
		30	8P								BLU	BLK		
		B	8P										WHT/BLK	BLK/WHT
SB8	12	7	7				RED/BLK	ORG/BLK	BLU/BLK	GRN/BLK				
		17	8	RED	ORG	GRN								
		27	6P								BLU	BLK		
		B	6P										WHT/BLK	BLK/WHT
SB9	*15	8	7				RED/BLK	ORG/BLK	BLU/BLK	GRN/BLK				
		9	4	RED	ORG	GRN								
		10	4	RED	ORG	GRN								
		11	4	RED	ORG	GRN								
SB10	7	B	6P										WHT/BLK	BLK
		28	6P								ORG	GRN		

NOTES:
1. DO NOT USE THE WHITE CONDUCTOR IN THE SIGNAL CABLE AS THE GROUNDED CONDUCTOR FOR SIGNAL INDICATIONS.
2. ENSURE THE GROUNDED CONDUCTOR IN THE FEEDER CABLE AND THE POLE CABLES ARE BOTH 18" LONGER THAN THE UNGROUNDED CONDUCTORS.
* EXISTING SIGNAL WIRING TO REUSE

REVISION
4-SECTION FLASHING YELLOW ARROWS, PEDESTRIAN MOVEMENTS AND LOOPS
REV. NO. 1 | REV. BY

TRAFFIC CONTROL SIGNAL
CTH V (S. 13TH ST.)
& CTH BB (W. RAWSON AVE.)
CITY OF OAK CREEK
MILWAUKEE COUNTY

SIGNAL NO. MC011

MILWAUKEE COUNTY DOT

PROJECT NO: 2050-08-71	HWY: CTH BB	COUNTY: MILWAUKEE	TRAFFIC SIGNAL PLAN	SHEET 89	E

FILE NAME : O:\HIGHWAY OPERATIONS CONTROL FILE\CENTRAL FILES\2010-2014\CTH BB - W. RAWSON AVE\2050-08-01 S 13TH ST TO W HOWELL AVE\DESIGN\PLANS\20500801_SIG1.DWG
LAYOUT NAME - 03
PLOT DATE : 10/29/2024 3:17 PM PLOT BY : VIRK, PARWINDER PLOT NAME : PLOT SCALE : ##########
WISDOT/CADDS SHEET 42

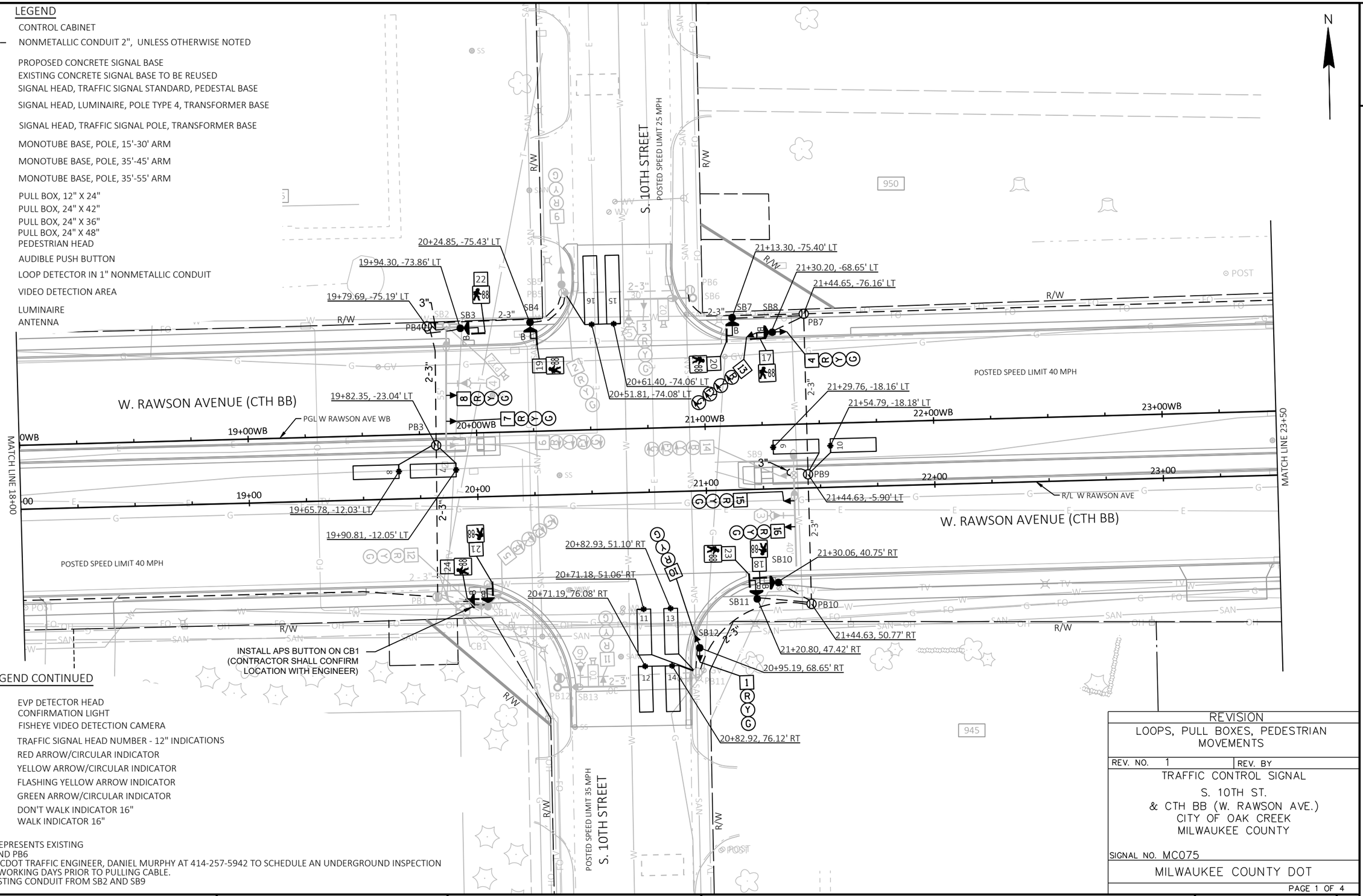
2

2

N

LEGEND

- CONTROL CABINET
- NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED
- SB# PROPOSED CONCRETE SIGNAL BASE
- SB# EXISTING CONCRETE SIGNAL BASE TO BE REUSED
- SIGNAL HEAD, TRAFFIC SIGNAL STANDARD, PEDESTAL BASE
- SIGNAL HEAD, LUMINAIRE, POLE TYPE 4, TRANSFORMER BASE
- (XX) SIGNAL HEAD, TRAFFIC SIGNAL POLE, TRANSFORMER BASE
- (XX) MONOTUBE BASE, POLE, 15'-30' ARM
- (XX) MONOTUBE BASE, POLE, 35'-45' ARM
- (XX) MONOTUBE BASE, POLE, 35'-55' ARM
- PULL BOX, 12" X 24"
- PULL BOX, 24" X 42"
- PULL BOX, 24" X 36"
- PULL BOX, 24" X 48"
- PEDESTRIAN HEAD
- AUDIBLE PUSH BUTTON
- LOOP DETECTOR IN 1" NONMETALLIC CONDUIT
- VIDEO DETECTION AREA
- LUMINAIRE
- ANTENNA



LEGEND CONTINUED

- EVP DETECTOR HEAD
  CONFIRMATION LIGHT
- FEC FISHEYE VIDEO DETECTION CAMERA
- XX XX TRAFFIC SIGNAL HEAD NUMBER - 12" INDICATIONS
- R RED ARROW/CIRCULAR INDICATOR
- Y YELLOW ARROW/CIRCULAR INDICATOR
- FY FLASHING YELLOW ARROW INDICATOR
- G GREEN ARROW/CIRCULAR INDICATOR
- DON'T WALK INDICATOR 16"
  WALK INDICATOR 16"

NOTES:

- GRAYSHADE REPRESENTS EXISTING
- ADJUST PB1 AND PB6
- NOTIFY THE MCDOT TRAFFIC ENGINEER, DANIEL MURPHY AT 414-257-5942 TO SCHEDULE AN UNDERGROUND INSPECTION ATLEAST FIVE WORKING DAYS PRIOR TO PULLING CABLE.
- INTERCEPT EXISTING CONDUIT FROM SB2 AND SB9

REVISION	
LOOPS, PULL BOXES, PEDESTRIAN MOVEMENTS	
REV. NO. 1	REV. BY

TRAFFIC CONTROL SIGNAL
S. 10TH ST.
& CTH BB (W. RAWSON AVE.)
CITY OF OAK CREEK
MILWAUKEE COUNTY

SIGNAL NO. MC075

MILWAUKEE COUNTY DOT

PAGE 1 OF 4

PROJECT NO: 2050-08-71	HWY: CTH BB	COUNTY: MILWAUKEE	TRAFFIC SIGNAL PLAN	SHEET 90	E

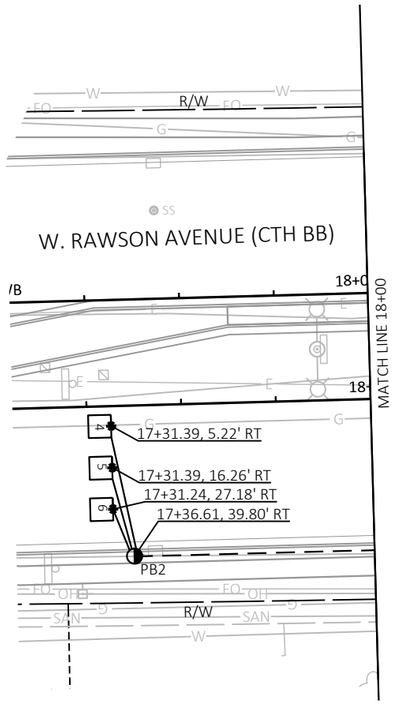
FILE NAME : O:\HIGHWAY OPERATIONS CONTROL FILE\CENTRAL FILES\2010-2014\CTH BB - W. RAWSON AVE\2050-08-01 S 13TH ST TO W HOWELL AVE\DESIGN\PLANS\20500801_SIG2.DWG
LAYOUT NAME - 01
PLOT DATE : 10/30/2024 3:06 PM
PLOT BY : VIRK, PARWINDER
PLOT NAME :
PLOT SCALE : 1 IN:40 FT

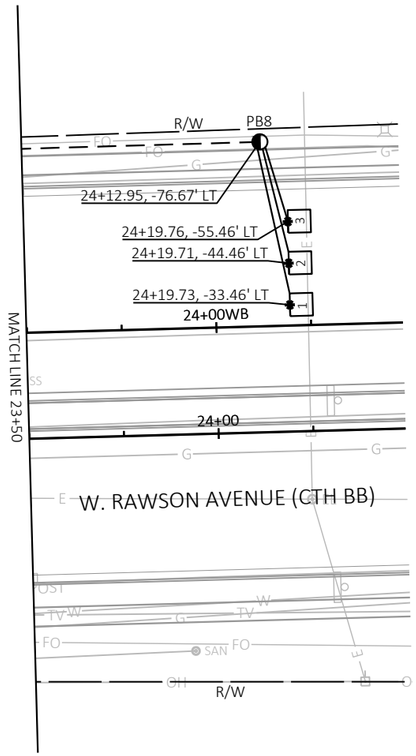
WISDOT/CADDS SHEET 42

2

LEGEND

- CONTROL CABINET
- NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED
- SB# PROPOSED CONCRETE SIGNAL BASE
- SB# EXISTING CONCRETE SIGNAL BASE TO BE REUSED
- SIGNAL HEAD, TRAFFIC SIGNAL STANDARD, PEDESTAL BASE
- SIGNAL HEAD, LUMINAIRE, POLE TYPE 4, TRANSFORMER BASE
- (XX) SIGNAL HEAD, TRAFFIC SIGNAL POLE, TRANSFORMER BASE
- (XX) MONOTUBE BASE, POLE, 15'-30' ARM
- (XX) MONOTUBE BASE, POLE, 35'-45' ARM
- (XX) MONOTUBE BASE, POLE, 35'-55' ARM
- PULL BOX, 12" X 24"
- PULL BOX, 24" X 42"
- PULL BOX, 24" X 36"
- PULL BOX, 24" X 48"
- PEDESTRIAN HEAD
- AUDIBLE PUSH BUTTON
- LOOP DETECTOR IN 1" NONMETALLIC CONDUIT
- VIDEO DETECTION AREA
- LUMINAIRE
- ANTENNA





N

2

LEGEND CONTINUED

- EVP DETECTOR HEAD
- CONFIRMATION LIGHT
- FEC FISHEYE VIDEO DETECTION CAMERA
- XX XX TRAFFIC SIGNAL HEAD NUMBER - 12" INDICATIONS
- R RED ARROW/CIRCULAR INDICATOR
- Y YELLOW ARROW/CIRCULAR INDICATOR
- FY FLASHING YELLOW ARROW INDICATOR
- G GREEN ARROW/CIRCULAR INDICATOR
- DON'T WALK INDICATOR 16"
- WALK INDICATOR 16"

NOTES:

- GRAYSHADE REPRESENTS EXISTING
- ADJUST PB1 AND PB6
- NOTIFY THE MCDOT TRAFFIC ENGINEER, DANIEL MURPHY AT 414-257-5942 TO SCHEDULE AN UNDERGROUND INSPECTION ATLEAST FIVE WORKING DAYS PRIOR TO PULLING CABLE.
- INTERCEPT EXISTING CONDUIT FROM SB2 AND SB9

REVISION	
LOOPS, PULL BOXES, PEDESTRIAN MOVEMENTS	
REV. NO. 1	REV. BY

TRAFFIC CONTROL SIGNAL
S. 10TH ST.
& CTH BB (W. RAWSON AVE.)
CITY OF OAK CREEK
MILWAUKEE COUNTY

SIGNAL NO. MC075

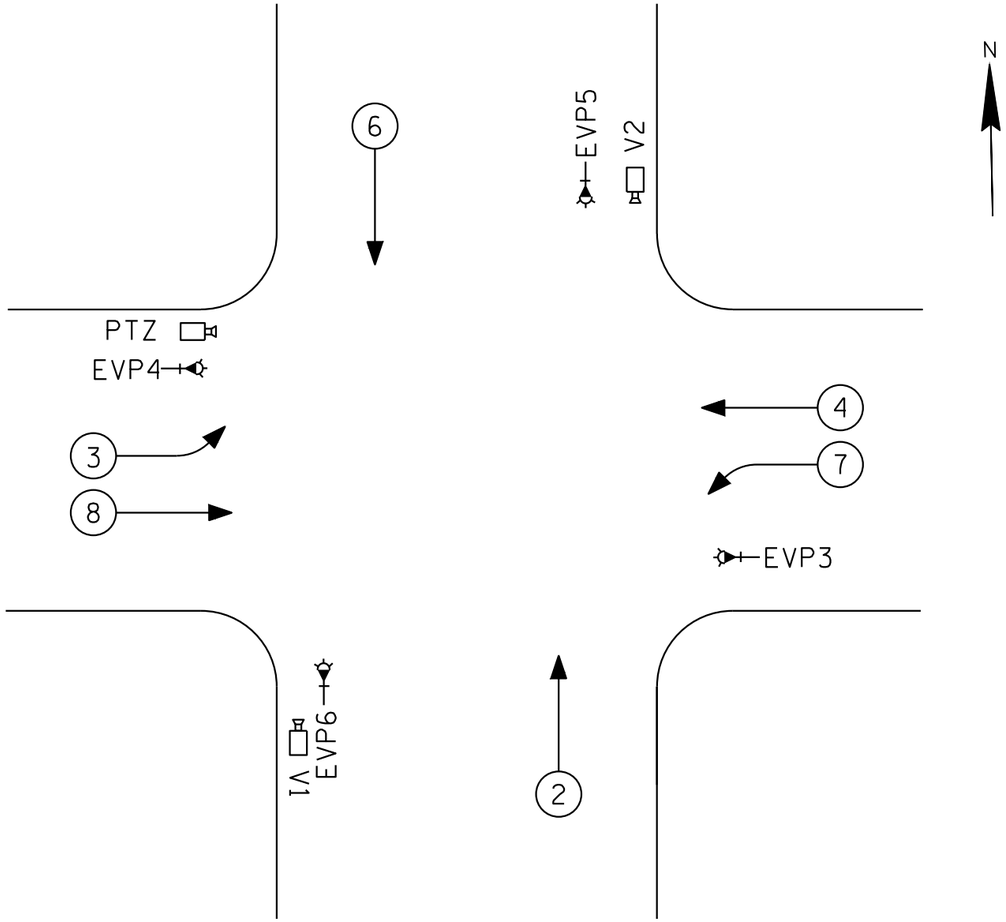
MILWAUKEE COUNTY DOT

PAGE 2 OF 4

PROJECT NO: 2050-08-71	HWY: CTH BB	COUNTY: MILWAUKEE	TRAFFIC SIGNAL PLAN	SHEET 91	E

FILE NAME : O:\HIGHWAY OPERATIONS CONTROL FILE\CENTRAL FILES\2010-2014\CTH BB - W. RAWSON AVE\2050-08-01 S 13TH ST TO W HOWELL AVE\DESIGN\PLANS\20500801_SIG2.DWG
LAYOUT NAME - 02
PLOT DATE : 10/30/2024 3:06 PM
PLOT BY : VIRK, PARWINDER
PLOT NAME :
PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42



PHASES				OVERLAPS			PRE-EMPTION CONFIRMATION BEACONS	
PHASE	VEHICLE	LEFT TURN TYPE	PED	OVLP	INCLUDES	OUTPUT		
1				A		13		
2	X		X	B		14	PRE-EMPT	OUTPUT
3	X	FYA		C		15	3/EB	13 R
4	X		X	D		16	4/WB	14 R
5				E		9 Y	5/NB	15 R
6	X		X	F	3 FY	10 Y	6/SB	16 R
7	X	FYA		G		11 Y		
8	X		X	H	7 FY	12 Y		

COMMUNICATION	
ETHERNET SWITCH	X
SM FIBER	X
MM FIBER	
5.8 GHZ RADIO	
900 MHZ ETHERNET RADIO	
900 MHZ SERIAL RADIO	
ETHERNET OVER COPPER	

AUXILARY EQUIPMENT	
LIGHTING FROM CABINET	X
BATTERY BACKUP	
PTZ CAMERA	X
AUDIBLE PEDESTRIAN HEADS	
AUDIBLE PEDESTRIAN BUTTONS	X

PRE-EMPTION	
EMERGENCY VEHICLE	X
CONFIRMATION BEACONS	X
RAILROAD	

REVISION

LOOPS, PULL BOXES, PEDESTRIAN MOVEMENTS

REV. NO. 1 | REV. BY

TRAFFIC CONTROL SIGNAL

S. 10TH ST.
& CTH BB (W. RAWSON AVE.)
CITY OF OAK CREEK
MILWAUKEE COUNTY

SIGNAL NO. MC075

MILWAUKEE COUNTY DOT

PROJECT NO: 2050-08-71	HWY: CTH BB	COUNTY: MILWAUKEE	TRAFFIC SIGNAL PLAN	SHEET 92	E

FILE NAME : O:\HIGHWAY OPERATIONS CONTROL FILE\CENTRAL FILES\2010-2014\CTH BB - W. RAWSON AVE\2050-08-01 S 13TH ST TO W HOWELL AVE\DESIGN\PLANS\20500801_SIG2.DWG
LAYOUT NAME - 03
PLOT DATE : 10/30/2024 3:06 PM
PLOT BY : VIRK, PARWINDER
PLOT NAME :
PLOT SCALE : ##########
WISDOT/CADDS SHEET 42

PROJECT ID:	2050-08-71
INTERSECTION:	S. 10TH ST & CTH BB (W. RAWSON AVE.)

SIGNAL WIRE COLOR CODING	BLK-BLACK	RED-RED	GRN-GREEN
	WHT-WHITE	BLU-BLUE	ORG-ORANGE

CB1 TO	# OF COND.	HEAD NO.	PHASE	SIGNAL INDICATION WIRE COLOR									PED BUTTON	
				RED	YELLOW	GREEN	<RED>	<YELLOW>	<FL YLW>	<GREEN>	D/WALK	WALK		
SB1	19	5	7				RED/BLK	ORG/BLK	BLU/BLK	GRN/BLK				
		12	8	RED	ORG	GRN								
		21	8P								BLU	BLK		
		24	6P								RED/WHT	GRN/WHT		
		B	8P										WHT/BLK	BLK/WHT
CB1	5	B	6P										RED	ORG
SB2	12	6	7				RED/BLK	ORG/BLK	BLU/BLK	GRN/BLK				
		7	4	RED	ORG	GRN								
		8	4	RED	ORG	GRN								
SB3	7	22	6P								ORG	GRN		
		B	6P										WHT/BLK	BLK
SB4	7	19	4P								ORG	GRN		
		B	4P										WHT/BLK	BLK
SB5	12	2	2	RED	ORG	GRN								
		9	6	RED/BLK	ORG/BLK	GRN/BLK								
SB6	12	3	2	RED	ORG	GRN								
SB7	7	20	4P								ORG	GRN		
		B	4P										WHT/BLK	BLK
SB8	12	4	4	RED	ORG	GRN								
		13	3				RED/BLK	ORG/BLK	BLU/BLK	GRN/BLK				
		17	2P								BLU	BLK		
		B	2P										WHT/BLK	BLK/WHT
SB9	12	14	3				RED/BLK	ORG/BLK	BLU/BLK	GRN/BLK				
		15	8	RED	ORG	GRN								
		16	8	RED	ORG	GRN								
SB10	7	18	2P								ORG	GRN		
		B	2P										WHT/BLK	BLK
SB11	7	23	8P								ORG	GRN		
		B	8P										WHT/BLK	BLK
SB12	12	1	2	RED	ORG	GRN								
		10	6	RED/BLK	ORG/BLK	GRN/BLK								
SB13	12	11	6	RED	ORG	GRN								

NOTES:
1. DO NOT USE THE WHITE CONDUCTOR IN THE SIGNAL CABLE AS THE GROUNDED CONDUCTOR FOR SIGNAL INDICATIONS.
2. ENSURE THE GROUNDED CONDUCTOR IN THE FEEDER CABLE AND THE POLE CABLES ARE BOTH 18" LONGER THAN THE UNGROUNDED CONDUCTORS.

REVISION	
LOOPS, PULL BOXES, PEDESTRIAN MOVEMENTS	
REV. NO. 1	REV. BY

TRAFFIC CONTROL SIGNAL
S. 10TH ST.
& CTH BB (W. RAWSON AVE.)
CITY OF OAK CREEK
MILWAUKEE COUNTY

SIGNAL NO. MC075

MILWAUKEE COUNTY DOT

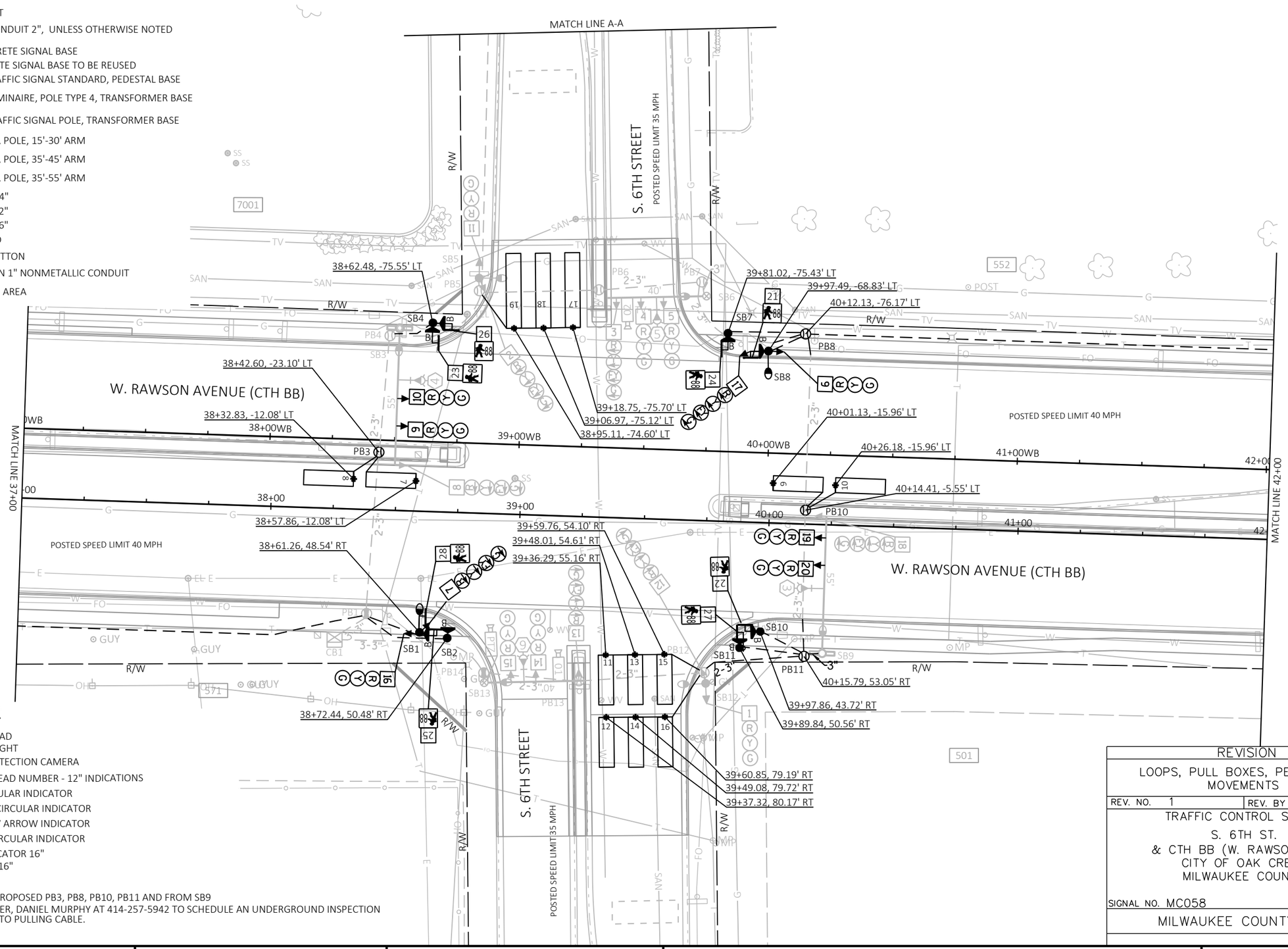
PROJECT NO: 2050-08-71	HWY: CTH BB	COUNTY: MILWAUKEE	TRAFFIC SIGNAL PLAN	SHEET 93	E

FILE NAME : O:\HIGHWAY OPERATIONS CONTROL FILE\CENTRAL FILES\2010-2014\CTH BB - W. RAWSON AVE\2050-08-01 S 13TH ST TO W HOWELL AVE\DESIGN\PLANS\20500801_SIG2.DWG PLOT DATE : 10/30/2024 3:06 PM PLOT BY : VIRK, PARWINDER PLOT NAME : PLOT SCALE : ##########
LAYOUT NAME - 04
WISDOT/CADDS SHEET 42

2

LEGEND

- CONTROL CABINET
- NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED
- SB# PROPOSED CONCRETE SIGNAL BASE
- SB# EXISTING CONCRETE SIGNAL BASE TO BE REUSED
- SIGNAL HEAD, TRAFFIC SIGNAL STANDARD, PEDESTAL BASE
- SIGNAL HEAD, LUMINAIRE, POLE TYPE 4, TRANSFORMER BASE
- (XX) SIGNAL HEAD, TRAFFIC SIGNAL POLE, TRANSFORMER BASE
- (XX) MONOTUBE BASE, POLE, 15'-30' ARM
- (XX) MONOTUBE BASE, POLE, 35'-45' ARM
- (XX) MONOTUBE BASE, POLE, 35'-55' ARM
- PULL BOX, 12" X 24"
- PULL BOX, 24" X 42"
- PULL BOX, 24" X 36"
- PEDESTRIAN HEAD
- AUDIBLE PUSH BUTTON
- LOOP DETECTOR IN 1" NONMETALLIC CONDUIT
- VIDEO DETECTION AREA
- LUMINAIRE
- ANTENNA



LEGEND CONTINUED

- EVP DETECTOR HEAD / CONFIRMATION LIGHT
- FEC FISHEYE VIDEO DETECTION CAMERA
- XX XX TRAFFIC SIGNAL HEAD NUMBER - 12" INDICATIONS
- R RED ARROW/CIRCULAR INDICATOR
- Y YELLOW ARROW/CIRCULAR INDICATOR
- FY FLASHING YELLOW ARROW INDICATOR
- G GREEN ARROW/CIRCULAR INDICATOR
- DON'T WALK INDICATOR 16"
- WALK INDICATOR 16"

NOTES:

- GRAYSHADE REPRESENTS EXISTING
- INTERCEPT EXISTING CONDUIT FOR PROPOSED PB3, PB8, PB10, PB11 AND FROM SB9
- NOTIFY THE MCDOT TRAFFIC ENGINEER, DANIEL MURPHY AT 414-257-5942 TO SCHEDULE AN UNDERGROUND INSPECTION ATLEAST FIVE WORKING DAYS PRIOR TO PULLING CABLE.
- ADJUST PB1, PB4, PB6 AND PB13

REVISION
LOOPS, PULL BOXES, PEDESTRIAN MOVEMENTS
REV. NO. 1 — REV. BY

TRAFFIC CONTROL SIGNAL
S. 6TH ST.
& CTH BB (W. RAWSON AVE.)
CITY OF OAK CREEK
MILWAUKEE COUNTY

SIGNAL NO. MC058

MILWAUKEE COUNTY DOT

PAGE 1 OF 5

PROJECT NO: 2050-08-71	HWY: CTH BB	COUNTY: MILWAUKEE	TRAFFIC SIGNAL PLAN	SHEET 94 E

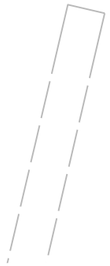
FILE NAME : O:\HIGHWAY OPERATIONS CONTROL FILE\CENTRAL FILES\2010-2014\CTH BB - W. RAWSON AVE\2050-08-01 S 13TH ST TO W HOWELL AVE\DESIGN\PLANS\20500801_SIG3.DWG
LAYOUT NAME - 01
PLOT DATE : 10/28/2024 5:59 PM PLOT BY : VIRK, PARWINDER PLOT NAME : PLOT SCALE : 1 IN:40 FT

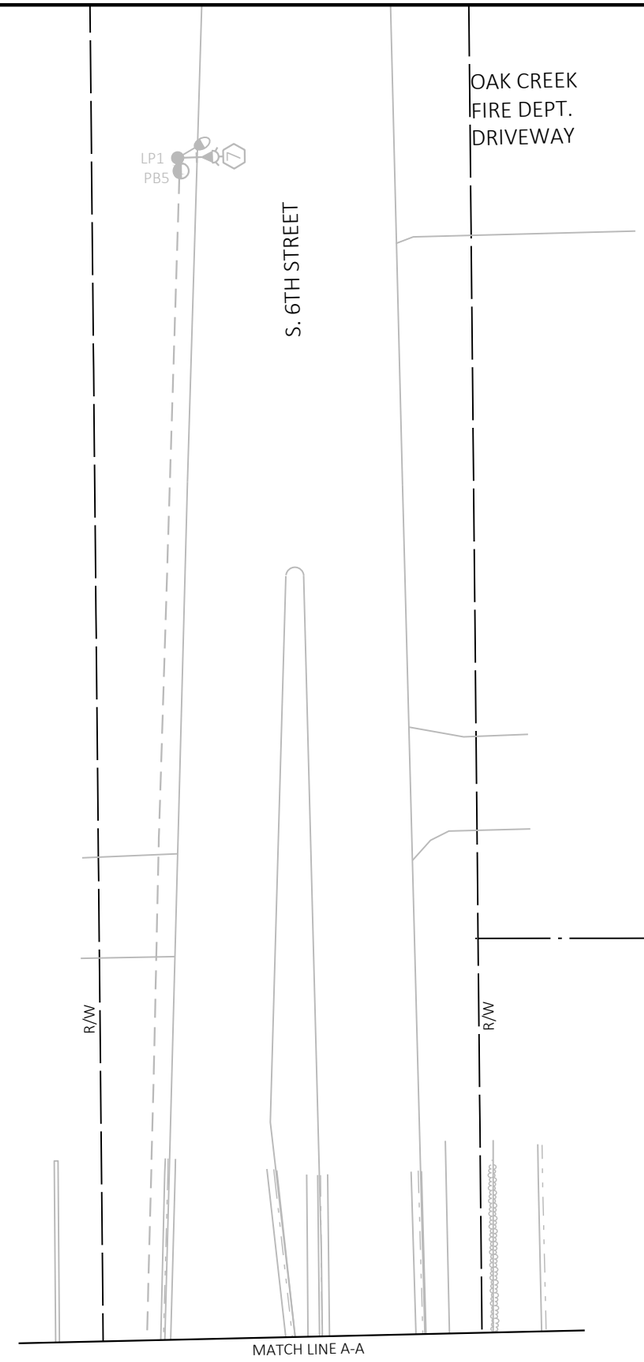
WISDOT/CADDS SHEET 42

2

LEGEND

- CONTROL CABINET
- NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED
- SB# ● PROPOSED CONCRETE SIGNAL BASE
- SB# ● EXISTING CONCRETE SIGNAL BASE TO BE REUSED
- SIGNAL HEAD, TRAFFIC SIGNAL STANDARD, PEDESTAL BASE
- SIGNAL HEAD, LUMINAIRE, POLE TYPE 4, TRANSFORMER BASE
- (XX) SIGNAL HEAD, TRAFFIC SIGNAL POLE, TRANSFORMER BASE
- (XX) MONOTUBE BASE, POLE, 15'-30' ARM
- (XX) MONOTUBE BASE, POLE, 35'-45' ARM
- (XX) MONOTUBE BASE, POLE, 35'-55' ARM
- PULL BOX, 12" X 24"
- PULL BOX, 24" X 42"
- PULL BOX, 24" X 36"
- PEDESTRIAN HEAD
- AUDIBLE PUSH BUTTON
- LOOP DETECTOR IN 1" NONMETALLIC CONDUIT
- VIDEO DETECTION AREA
- LUMINAIRE
- ANTENNA







2

LEGEND CONTINUED

- EVP DETECTOR HEAD / CONFIRMATION LIGHT
- FEC FISHEYE VIDEO DETECTION CAMERA
- XX XX TRAFFIC SIGNAL HEAD NUMBER - 12" INDICATIONS
- R RED ARROW/CIRCULAR INDICATOR
- Y YELLOW ARROW/CIRCULAR INDICATOR
- FY FLASHING YELLOW ARROW INDICATOR
- G GREEN ARROW/CIRCULAR INDICATOR
- DON'T WALK INDICATOR 16" / WALK INDICATOR 16"

NOTES:

- GRAYSHADE REPRESENTS EXISTING
- INTERCEPT EXISTING CONDUIT FOR PROPOSED PB3, PB8, PB10 AND PB11
- NOTIFY THE MCDOT TRAFFIC ENGINEER, DANIEL MURPHY AT 414-257-5942 TO SCHEDULE AN UNDERGROUND INSPECTION ATLEAST FIVE WORKING DAYS PRIOR TO PULLING CABLE.
- ADJUST PB1, PB4, PB6 AND PB13

REVISION

LOOPS, PULL BOXES, PEDESTRIAN MOVEMENTS

REV. NO. 1 | REV. BY

TRAFFIC CONTROL SIGNAL

S. 6TH ST.
& CTH BB (W. RAWSON AVE.)
CITY OF OAK CREEK
MILWAUKEE COUNTY

SIGNAL NO. MC058

MILWAUKEE COUNTY DOT

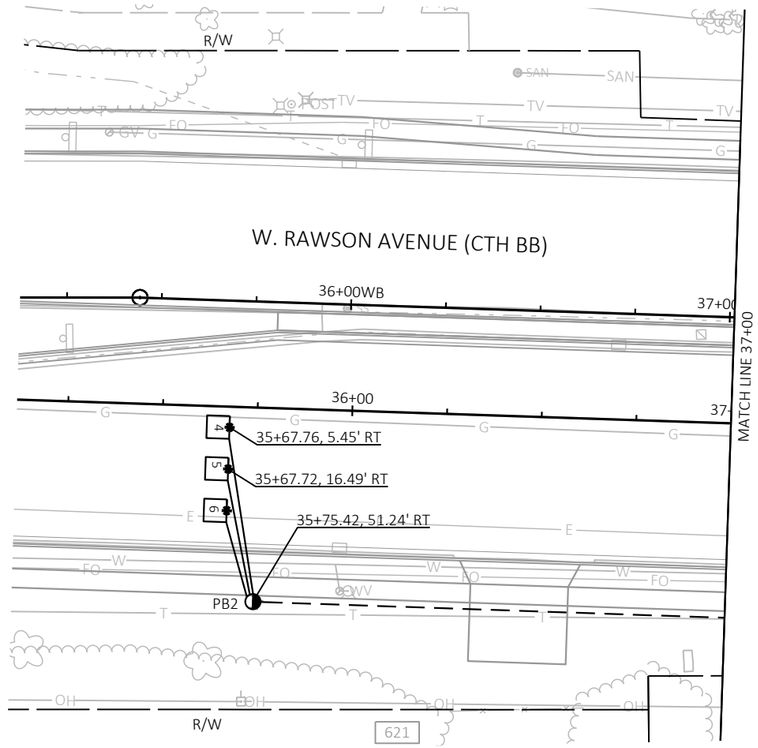
PROJECT NO: 2050-08-71	HWY: CTH BB	COUNTY: MILWAUKEE	TRAFFIC SIGNAL PLAN	SHEET 95	E

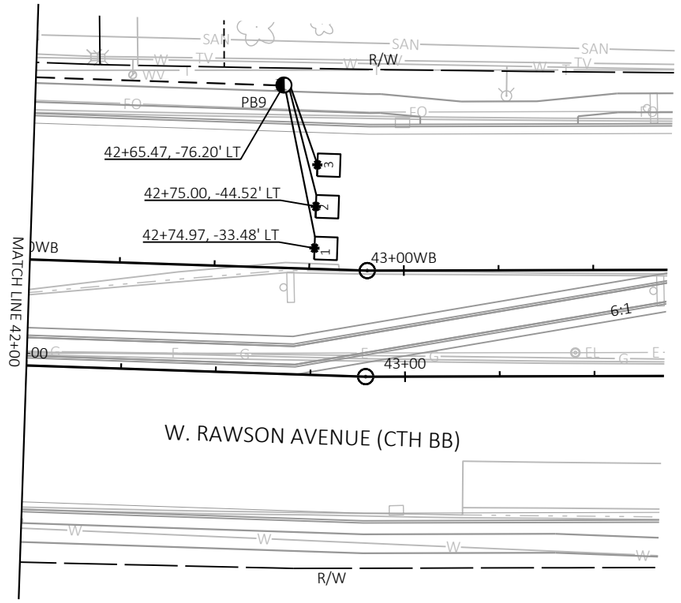
FILE NAME : O:\HIGHWAY OPERATIONS CONTROL FILE\CENTRAL FILES\2010-2014\CTH BB - W. RAWSON AVE\2050-08-01 S 13TH ST TO W HOWELL AVE\DESIGN\PLANS\20500801_SIG3.DWG
LAYOUT NAME - 02
PLOT DATE : 10/28/2024 5:59 PM
PLOT BY : VIRK, PARWINDER
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2

LEGEND

- CONTROL CABINET
- NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED
- SB# — PROPOSED CONCRETE SIGNAL BASE
- SB# — EXISTING CONCRETE SIGNAL BASE TO BE REUSED
- SIGNAL HEAD, TRAFFIC SIGNAL STANDARD, PEDESTAL BASE
- SIGNAL HEAD, LUMINAIRE, POLE TYPE 4, TRANSFORMER BASE
- (XX) — SIGNAL HEAD, TRAFFIC SIGNAL POLE, TRANSFORMER BASE
- (XX) — MONOTUBE BASE, POLE, 15'-30' ARM
- (XX) — MONOTUBE BASE, POLE, 35'-45' ARM
- (XX) — MONOTUBE BASE, POLE, 35'-55' ARM
- PULL BOX, 12" X 24"
- PULL BOX, 24" X 42"
- PULL BOX, 24" X 36"
- PEDESTRIAN HEAD
- AUDIBLE PUSH BUTTON
- LOOP DETECTOR IN 1" NONMETALLIC CONDUIT
- VIDEO DETECTION AREA
- LUMINAIRE
- ANTENNA





LEGEND CONTINUED

- EVP DETECTOR HEAD / CONFIRMATION LIGHT
- FEC — FISHEYE VIDEO DETECTION CAMERA
- XX XX — TRAFFIC SIGNAL HEAD NUMBER - 12" INDICATIONS
- R — RED ARROW/CIRCULAR INDICATOR
- Y — YELLOW ARROW/CIRCULAR INDICATOR
- FY — FLASHING YELLOW ARROW INDICATOR
- G — GREEN ARROW/CIRCULAR INDICATOR
- DON'T WALK INDICATOR 16" / WALK INDICATOR 16"

NOTES:

- GRAYSHADE REPRESENTS EXISTING
- INTERCEPT EXISTING CONDUIT FOR PROPOSED PB3, PB8, PB10 AND PB11
- NOTIFY THE MCDOT TRAFFIC ENGINEER, DANIEL MURPHY AT 414-257-5942 TO SCHEDULE AN UNDERGROUND INSPECTION ATLEAST FIVE WORKING DAYS PRIOR TO PULLING CABLE.
- ADJUST PB1, PB4, PB6 AND PB13

REVISION	
LOOPS, PULL BOXES, PEDESTRIAN MOVEMENTS	
REV. NO. 1	REV. BY

TRAFFIC CONTROL SIGNAL

S. 6TH ST.
& CTH BB (W. RAWSON AVE.)
CITY OF OAK CREEK
MILWAUKEE COUNTY

SIGNAL NO. MC058

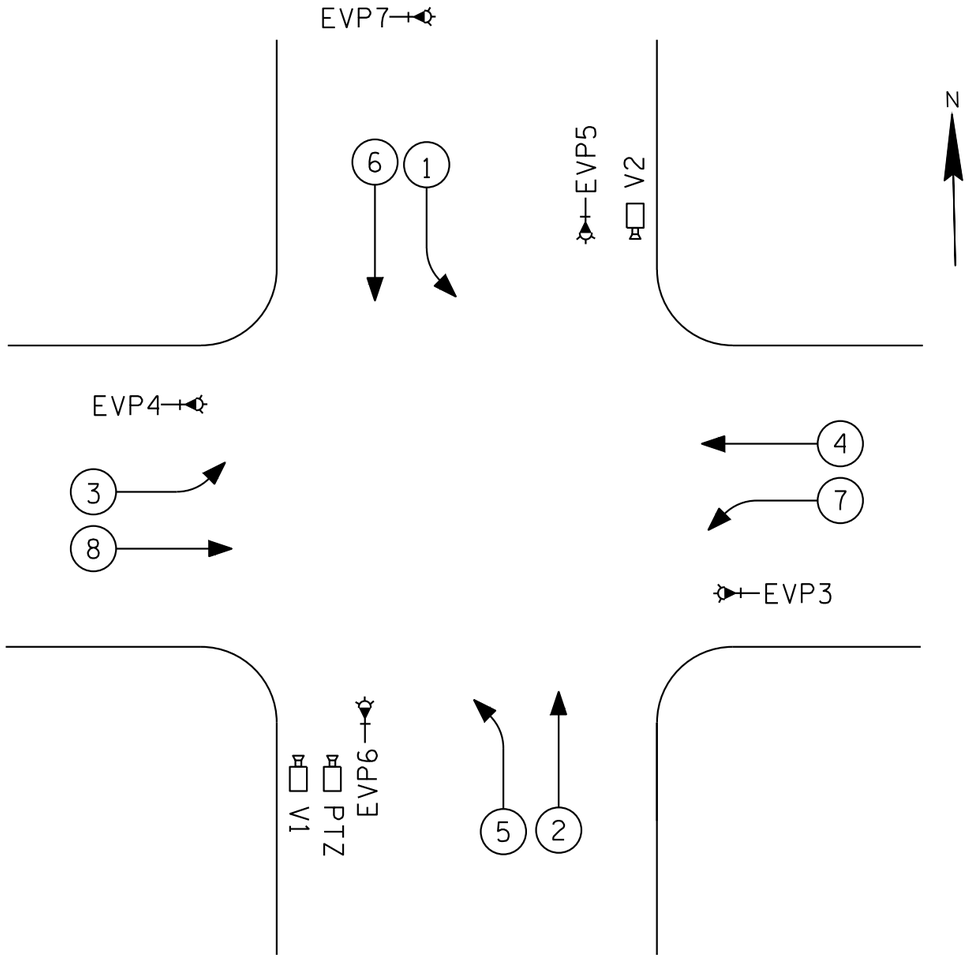
MILWAUKEE COUNTY DOT

PAGE 3 OF 5

PROJECT NO: 2050-08-71	HWY: CTH BB	COUNTY: MILWAUKEE	TRAFFIC SIGNAL PLAN	SHEET 96	E

FILE NAME : O:\HIGHWAY OPERATIONS CONTROL FILE\CENTRAL FILES\2010-2014\CTH BB - W. RAWSON AVE\2050-08-01 S 13TH ST TO W HOWELL AVE\DESIGN\PLANS\20500801_SIG3.DWG
LAYOUT NAME - 03
PLOT DATE : 10/28/2024 6:00 PM
PLOT BY : VIRK, PARWINDER
PLOT NAME :
PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42



PHASES				OVERLAPS			PRE-EMPTION CONFIRMATION BEACONS	
PHASE	VEHICLE	LEFT TURN TYPE	PED	OVLP	INCLUDES	OUTPUT	PRE-EMPT	OUTPUT
1	X	FYA		A		13		
2	X		X	B		14		
3	X	FYA		C		15	3/EB	13 R
4	X		X	D		16	4/WB	14 R
5	X	FYA		E	1 FY	9 Y	5/NB	15 R
6	X		X	F	3 FY	10 Y	6/SB	16 R
7	X	FYA		G	5 FY	11 Y	7/SB	16 R
8	X		X	H	7 FY	12 Y		

COMMUNICATION	
ETHERNET SWITCH	X
SM FIBER	X
MM FIBER	
5.8 GHZ RADIO	
900 MHZ ETHERNET RADIO	
900 MHZ SERIAL RADIO	
ETHERNET OVER COPPER	

AUXILARY EQUIPMENT	
LIGHTING FROM CABINET	X
BATTERY BACKUP	
PTZ CAMERA	X
AUDIBLE PEDESTRIAN HEADS	
AUDIBLE PEDESTRIAN BUTTONS	X

PRE-EMPTION	
EMERGENCY VEHICLE	X
CONFIRMATION BEACONS	X
RAILROAD	

REVISION

LOOPS, PULL BOXES, PEDESTRIAN MOVEMENTS

REV. NO. 1 | REV. BY

TRAFFIC CONTROL SIGNAL

S. 6TH ST.
& CTH BB (W. RAWSON AVE.)
CITY OF OAK CREEK
MILWAUKEE COUNTY

SIGNAL NO. MC058

MILWAUKEE COUNTY DOT

PROJECT NO: 2050-08-71	HWY: CTH BB	COUNTY: MILWAUKEE	TRAFFIC SIGNAL PLAN	SHEET 97	E

FILE NAME : O:\HIGHWAY OPERATIONS CONTROL FILE\CENTRAL FILES\2010-2014\CTH BB - W. RAWSON AVE\2050-08-01 S 13TH ST TO W HOWELL AVE\DESIGN\PLANS\20500801_SIG3.DWG
LAYOUT NAME - 04
PLOT DATE : 10/28/2024 6:00 PM PLOT BY : VIRK, PARWINDER PLOT NAME : PLOT SCALE : ##########

PROJECT ID:	2050-08-71
INTERSECTION:	S. 6TH ST & CTH BB (W. RAWSON AVE.)

SIGNAL WIRE COLOR CODING	BLK-BLACK	RED-RED	GRN-GREEN
	WHT-WHITE	BLU-BLUE	ORG-ORANGE

CB1 TO	# OF COND.	HEAD NO.	PHASE	SIGNAL INDICATION WIRE COLOR									PED BUTTON	
				RED	YELLOW	GREEN	<RED>	<YELLOW>	<FL YLW>	<GREEN>	D/WALK	WALK		
SB1	19	7	7				RED/BLK	ORG/BLK	BLU/BLK	GRN/BLK				
		16	8	RED	ORG	GRN								
		25	6P								BLU	BLK		
		28	8P								RED/WHT	GRN/WHT		
		B	6P										WHT/BLK	BLK/WHT
SB2	5	B	8P										RED	ORG
SB3	12	8	7				RED/BLK	ORG/BLK	BLU/BLK	GRN/BLK				
		9	4	RED	ORG	GRN								
		10	4	RED	ORG	GRN								
SB4	12	23	4P								BLU	BLK		
		26	6P								RED/BLK	GRN/BLK		
		B	4P										WHT/BLK	BLK/WHT
		B	6P										BLU/BLK	ORG/BLK
SB5	12	2	5				RED/BLK	ORG/BLK	BLU/BLK	GRN/BLK				
		11	6	RED	ORG	GRN								
SB6	12	3	5				RED/BLK	ORG/BLK	BLU/BLK	GRN/BLK				
		4	2	RED	ORG	GRN								
		5	2	RED	ORG	GRN								
SB7	7	24	4P								ORG	GRN		
		B	4P										WHT/BLK	BLK
SB8	12	6	4	RED	ORG	GRN								
		17	3				RED/BLK	ORG/BLK	BLU/BLK	GRN/BLK				
		21	2P								BLU	BLK		
		B	2P										WHT/BLK	BLK/WHT
SB9	12	18	3				RED/BLK	ORG/BLK	BLU/BLK	GRN/BLK				
		19	8	RED	ORG	GRN								
		20	8	RED	ORG	GRN								
SB10	7	22	2P								ORG	GRN		
		B	2P										WHT/BLK	BLK
SB11	7	27	8P								ORG	GRN		
		B	8P										WHT/BLK	BLK
SB12	12	1	2	RED	ORG	GRN								
		12	1				RED/BLK	ORG/BLK	BLU/BLK	GRN/BLK				
SB13	12	13	1				RED/BLK	ORG/BLK	BLU/BLK	GRN/BLK				
		14	6	RED	ORG	GRN								
		15	6	RED	ORG	GRN								

NOTES:
1. DO NOT USE THE WHITE CONDUCTOR IN THE SIGNAL CABLE AS THE GROUNDED CONDUCTOR FOR SIGNAL INDICATIONS.
2. ENSURE THE GROUNDED CONDUCTOR IN THE FEEDER CABLE AND THE POLE CABLES ARE BOTH 18" LONGER THAN THE UNGROUNDED CONDUCTORS.

REVISION

LOOPS, PULL BOXES, PEDESTRIAN MOVEMENTS

REV. NO. 1 | REV. BY

TRAFFIC CONTROL SIGNAL

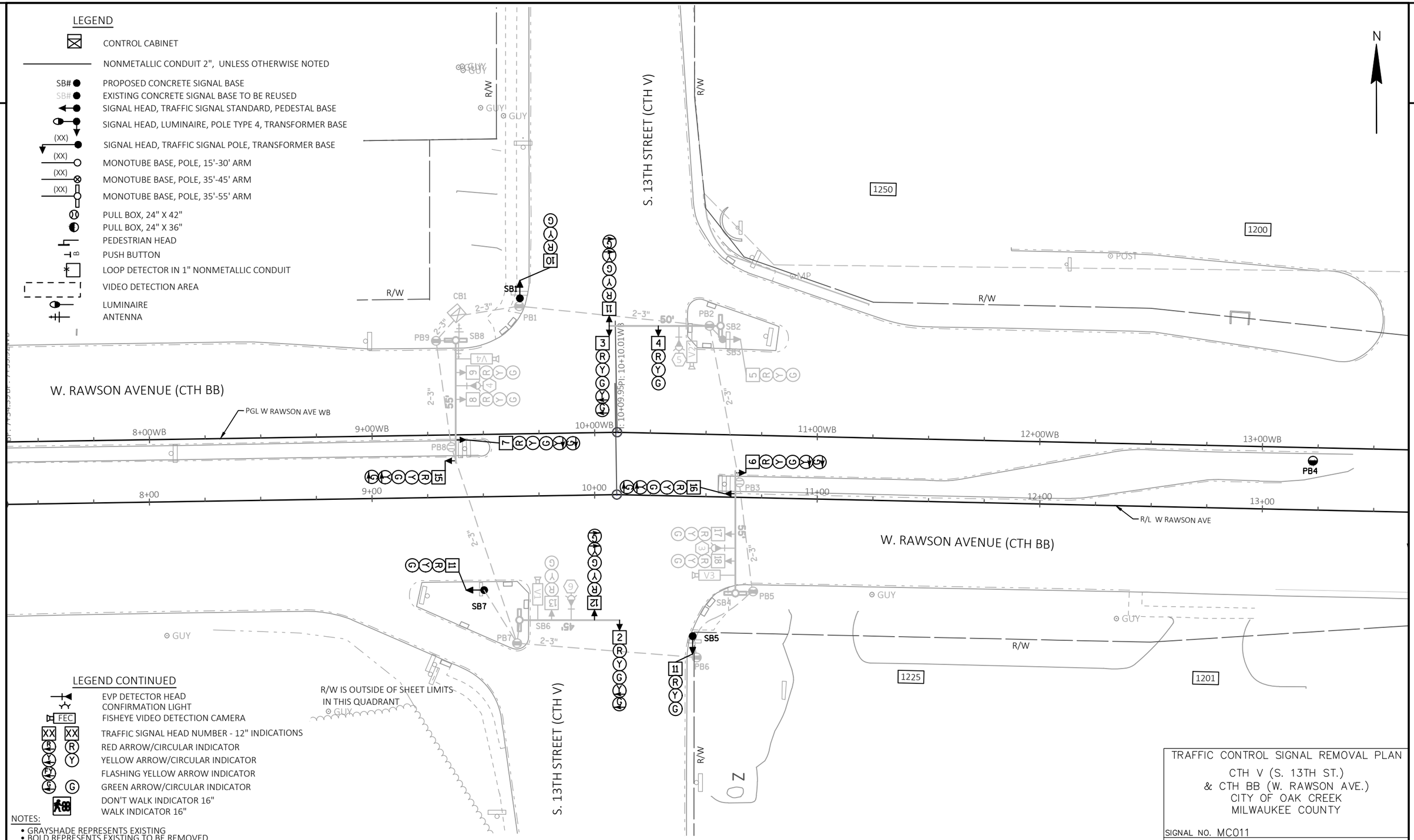
S. 6TH ST.
& CTH BB (W. RAWSON AVE.)
CITY OF OAK CREEK
MILWAUKEE COUNTY

SIGNAL NO. MC058

MILWAUKEE COUNTY DOT

LEGEND

- CONTROL CABINET
- NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED
- SB# ● PROPOSED CONCRETE SIGNAL BASE
- SB# ● EXISTING CONCRETE SIGNAL BASE TO BE REUSED
- SIGNAL HEAD, TRAFFIC SIGNAL STANDARD, PEDESTAL BASE
- SIGNAL HEAD, LUMINAIRE, POLE TYPE 4, TRANSFORMER BASE
- (XX) SIGNAL HEAD, TRAFFIC SIGNAL POLE, TRANSFORMER BASE
- (XX) MONOTUBE BASE, POLE, 15'-30' ARM
- (XX) MONOTUBE BASE, POLE, 35'-45' ARM
- (XX) MONOTUBE BASE, POLE, 35'-55' ARM
- PULL BOX, 24" X 42"
- PULL BOX, 24" X 36"
- PEDESTRIAN HEAD
- PUSH BUTTON
- LOOP DETECTOR IN 1" NONMETALLIC CONDUIT
- VIDEO DETECTION AREA
- LUMINAIRE
- ANTENNA



LEGEND CONTINUED

- EVP DETECTOR HEAD
- CONFIRMATION LIGHT
- FEC FISHEYE VIDEO DETECTION CAMERA
- XX XX TRAFFIC SIGNAL HEAD NUMBER - 12" INDICATIONS
- R RED ARROW/CIRCULAR INDICATOR
- Y YELLOW ARROW/CIRCULAR INDICATOR
- FY FLASHING YELLOW ARROW INDICATOR
- G GREEN ARROW/CIRCULAR INDICATOR
- DON'T WALK INDICATOR 16"
- WALK INDICATOR 16"

R/W IS OUTSIDE OF SHEET LIMITS IN THIS QUADRANT

NOTES:

- GRAYSHADE REPRESENTS EXISTING
- BOLD REPRESENTS EXISTING TO BE REMOVED
- NOTIFY THE MCDOT TRAFFIC ENGINEER, DANIEL MURPHY AT 414-257-5942 FIVE WORKING DAYS PRIOR TO REMOVING SIGNAL EQUIPMENT
- SECURE NEARBY PULLBOXES WHEN PERFORMING EXCAVATION FOR SIGNAL BASES TO PREVENT UNDERMINING

TRAFFIC CONTROL SIGNAL REMOVAL PLAN

CTH V (S. 13TH ST.)
& CTH BB (W. RAWSON AVE.)
CITY OF OAK CREEK
MILWAUKEE COUNTY

SIGNAL NO. MC011

MILWAUKEE COUNTY DOT

PAGE 1 OF 1

PROJECT NO: 2050-08-71	HWY: CTH BB	COUNTY: MILWAUKEE	TRAFFIC SIGNAL REMOVAL PLAN	SHEET 99	E

FILE NAME : O:\HIGHWAY OPERATIONS CONTROL FILE\CENTRAL FILES\2010-2014\CTH BB - W. RAWSON AVE\2050-08-01 S 13TH ST TO W HOWELL AVE\DESIGN\PLANS\20500801_REM SIG1.DWG
LAYOUT NAME - 01_NEW
PLOT DATE : 10/7/2024 10:53 AM PLOT BY : THORNBURG, ALEX PLOT NAME : PLOT SCALE : ########## WISDOT/CADDS SHEET 42

2

2

LEGEND

- CONTROL CABINET
- NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED
- SB# ● PROPOSED CONCRETE SIGNAL BASE
- SB# ● EXISTING CONCRETE SIGNAL BASE TO BE REUSED
- SIGNAL HEAD, TRAFFIC SIGNAL STANDARD, PEDESTAL BASE
- SIGNAL HEAD, LUMINAIRE, POLE TYPE 4, TRANSFORMER BASE
- (XX) SIGNAL HEAD, TRAFFIC SIGNAL POLE, TRANSFORMER BASE
- (XX) MONOTUBE BASE, POLE, 15'-30' ARM
- (XX) MONOTUBE BASE, POLE, 35'-45' ARM
- (XX) MONOTUBE BASE, POLE, 35'-55' ARM
- PULL BOX, 24" X 42"
- PULL BOX, 24" X 36"
- PEDESTRIAN HEAD

LEGEND CONTINUED

- PUSH BUTTON
- LOOP DETECTOR IN 1" NONMETALLIC CONDUIT
- VIDEO DETECTION AREA
- LUMINAIRE
- ANTENNA
- EVP DETECTOR HEAD
  CONFIRMATION LIGHT
- FEC FISHEYE VIDEO DETECTION CAMERA
- XX XX TRAFFIC SIGNAL HEAD NUMBER - 12" INDICATIONS
- RED ARROW/CIRCULAR INDICATOR
- YELLOW ARROW/CIRCULAR INDICATOR
- FLASHING YELLOW ARROW INDICATOR
- GREEN ARROW/CIRCULAR INDICATOR
- DON'T WALK INDICATOR 16"
  WALK INDICATOR 16"

NOTES:

- GRAYSHADE REPRESENTS EXISTING
- BOLD REPRESENTS EXISTING TO BE REMOVED
- NOTIFY THE MCDOT TRAFFIC ENGINEER, DANIEL MURPHY AT 414-257-5942 FIVE WORKING DAYS PRIOR TO REMOVING SIGNAL EQUIPMENT
- SECURE NEARBY PULLBOXES WHEN PERFORMING EXCAVATION FOR SIGNAL BASES TO PREVENT UNDERMINING
- BAG SIGNAL HEADS 6 AND 15 UNTIL THE SIGNAL IS READY FOR TURN-ON.

N

W. RAWSON AVENUE (CTH BB)

S. 10TH STREET

R/W

PGL W RAWSON AVE WB

R/L W RAWSON AVE

18+00WB 19+00WB 20+00WB 21+00WB 22+00WB 23+00WB 24+00WB

18+00 19+00 20+00 21+00 22+00 23+00 24+00

SB1 S-40-1849 · SB2 S-40-1850 · SB3 · SB4 S-40-1851 · SB5 · SB6 S-40-1852 · SB7 · SB8 S-40-1853

PB1 PB2 PB3 PB4 PB5 PB6 PB7 PB8 PB9 PB10

CB1

950 921 945

POST GUY

2-3" 30' 55' 40'

TRAFFIC CONTROL SIGNAL REMOVAL PLAN
S. 10TH ST.
& CTH BB (W. RAWSON AVE.)
CITY OF OAK CREEK
MILWAUKEE COUNTY

SIGNAL NO. MC075

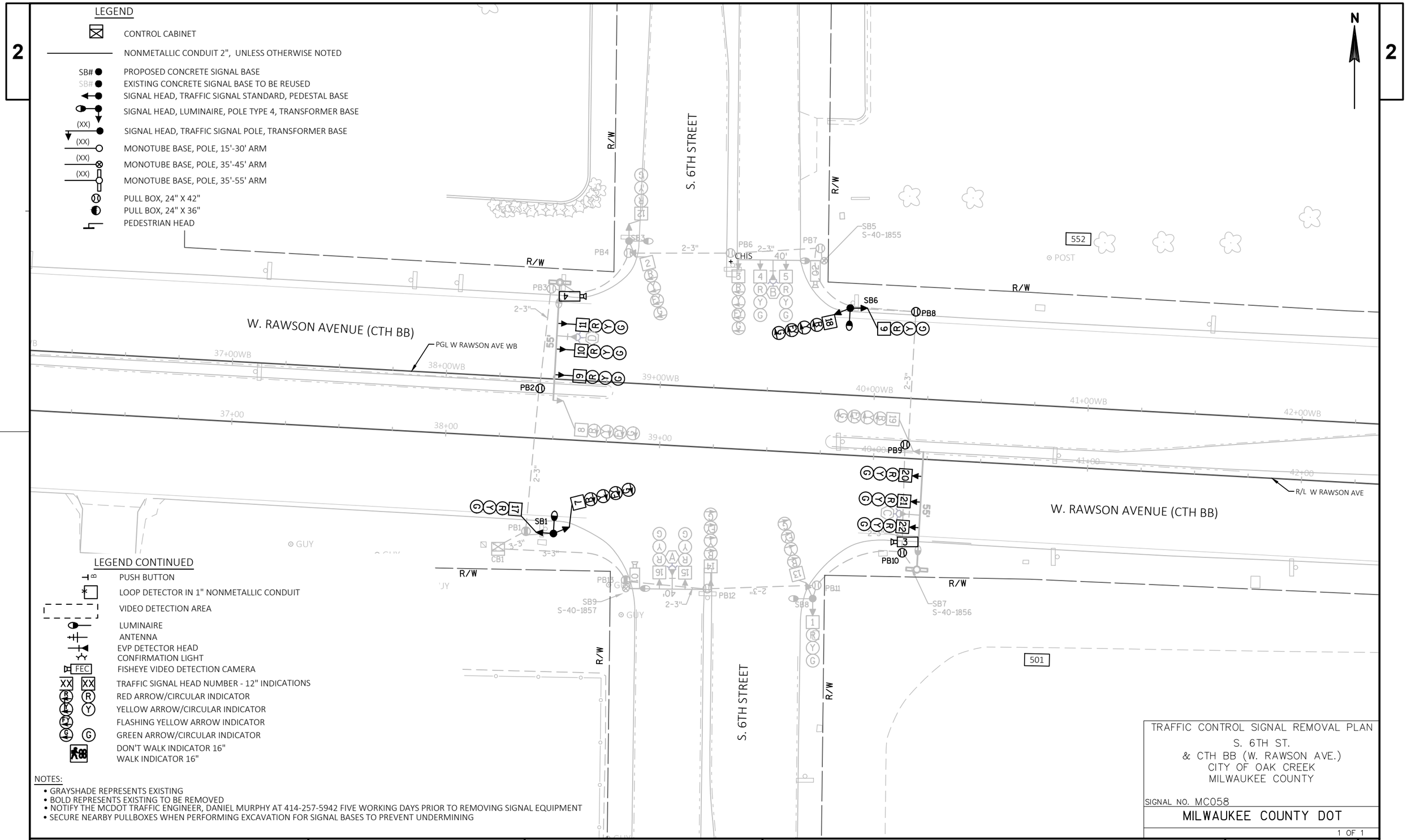
MILWAUKEE COUNTY DOT

1 OF 1

PROJECT NO: 2050-08-71	HWY: CTH BB	COUNTY: MILWAUKEE	TRAFFIC SIGNAL REMOVAL PLAN	SHEET 100	E

FILE NAME : O:\HIGHWAY OPERATIONS CONTROL FILE\CENTRAL FILES\2010-2014\CTH BB - W. RAWSON AVE\2050-08-01 S 13TH ST TO W HOWELL AVE\DESIGN\PLANS\20500801_REM SIG2 AND SIG3.DWG

PLOT DATE : 10/28/2024 5:53 PM PLOT BY : VIRK, PARWINDER PLOT NAME : PLOT SCALE : 1" = 40'_XREF



NOTES:

- GRAYSHADE REPRESENTS EXISTING
- BOLD REPRESENTS EXISTING TO BE REMOVED
- NOTIFY THE MCDOT TRAFFIC ENGINEER, DANIEL MURPHY AT 414-257-5942 FIVE WORKING DAYS PRIOR TO REMOVING SIGNAL EQUIPMENT
- SECURE NEARBY PULLBOXES WHEN PERFORMING EXCAVATION FOR SIGNAL BASES TO PREVENT UNDERMINING

TRAFFIC CONTROL SIGNAL REMOVAL PLAN
S. 6TH ST.
& CTH BB (W. RAWSON AVE.)
CITY OF OAK CREEK
MILWAUKEE COUNTY

SIGNAL NO. MC058

MILWAUKEE COUNTY DOT

1 OF 1

PROJECT NO: 2050-08-71	HWY: CTH BB	COUNTY: MILWAUKEE	TRAFFIC SIGNAL REMOVAL PLAN	SHEET 101	E

FILE NAME : O:\HIGHWAY OPERATIONS CONTROL FILE\CENTRAL FILES\2010-2014\CTH BB - W. RAWSON AVE\2050-08-01 S 13TH ST TO W HOWELL AVE\DESIGN\PLANS\20500801_REM SIG2 AND SIG3.DWG

PLOT DATE : 10/28/2024 5:53 PM PLOT BY : VIRK, PARWINDER PLOT NAME : PLOT SCALE : 1" = 40'_XREF

2

LEGEND

- CONTROL CABINET
- OVERHEAD TEMPORARY WIRE
- WOOD POLE
- LUMINAIRE
- EVP DETECTOR HEAD CONFIRMATION LIGHT
- TRAFFIC SIGNAL HEAD NUMBER - 12" INDICATIONS
- RED ARROW/CIRCULAR INDICATOR
- YELLOW ARROW/CIRCULAR INDICATOR
- FLASHING YELLOW ARROW INDICATOR
- GREEN ARROW/CIRCULAR INDICATOR
- WOOD POLE OR OVERHEAD SPAN MOUNTED

MATCH LINE A-A

N

UTILIZE EXISTING CONDUIT FROM PB5 TO PB4 TO PULL EVP CABLE FOR EVP HEAD 7 AND THEN USE TEMPORARY SPAN WIRE TO REACH TEMPORARY SIGNAL CABINET

S. 6TH STREET

ONLY

W. RAWSON AVENUE (CTH BB)

R/W

PB4

POST

GUY

MP

NOTES:

- GRAYSHADE REPRESENTS EXISTING
- FINAL LOCATION OF SIGNAL POLE AND SIGNAL HEADS TO BE APPROVED BY THE ENGINEER
- POLE AND POSTS INSTALLED BEHIND CURBS SHALL BE OFFSET A MINIMUM OF 2 FEET FROM THE FACE OF CURB TO THE SIDE OF THE POST OR POLE
- GUYING OF POLES IS REQUIRED AND LOCATIONS SHALL BE APPROVED BY THE ENGINEER
- CONTRACTOR TO ADJUST TEMPORARY SIGNALS WITHIN EACH CONSTRUCTION STAGE AS DIRECTED BY THE ENGINEER TO MAINTAIN MUTCD REQUIREMENTS.
- ANY KNOCKDOWNS TO PERMANENT/TEMPORARY SIGNAL EQUIPMENT SHALL BE REPLACED BY THE CONTRACTOR
- USE EXISTING ELECTRICAL SERVICE TO POWER THE TEMP SIGNALS
- ALL LUMINAIRES ARE 250 HPS OR LED C
- ALL EVP HEADS (3-7) SHALL BE OPERATIONAL IN ALL STAGES

TEMPORARY TRAFFIC CONTROL SIGNAL
S. 6TH ST.
& CTH BB (W. RAWSON AVE.)
CITY OF OAK CREEK
MILWAUKEE COUNTY

SIGNAL NO. MC058

MILWAUKEE COUNTY DOT

PAGE 1 OF 8

PROJECT NO: 2050-08-71	HWY: CTH BB	COUNTY: MILWAUKEE	TEMPORARY TRAFFIC SIGNAL - STAGE 1	SHEET 102	E

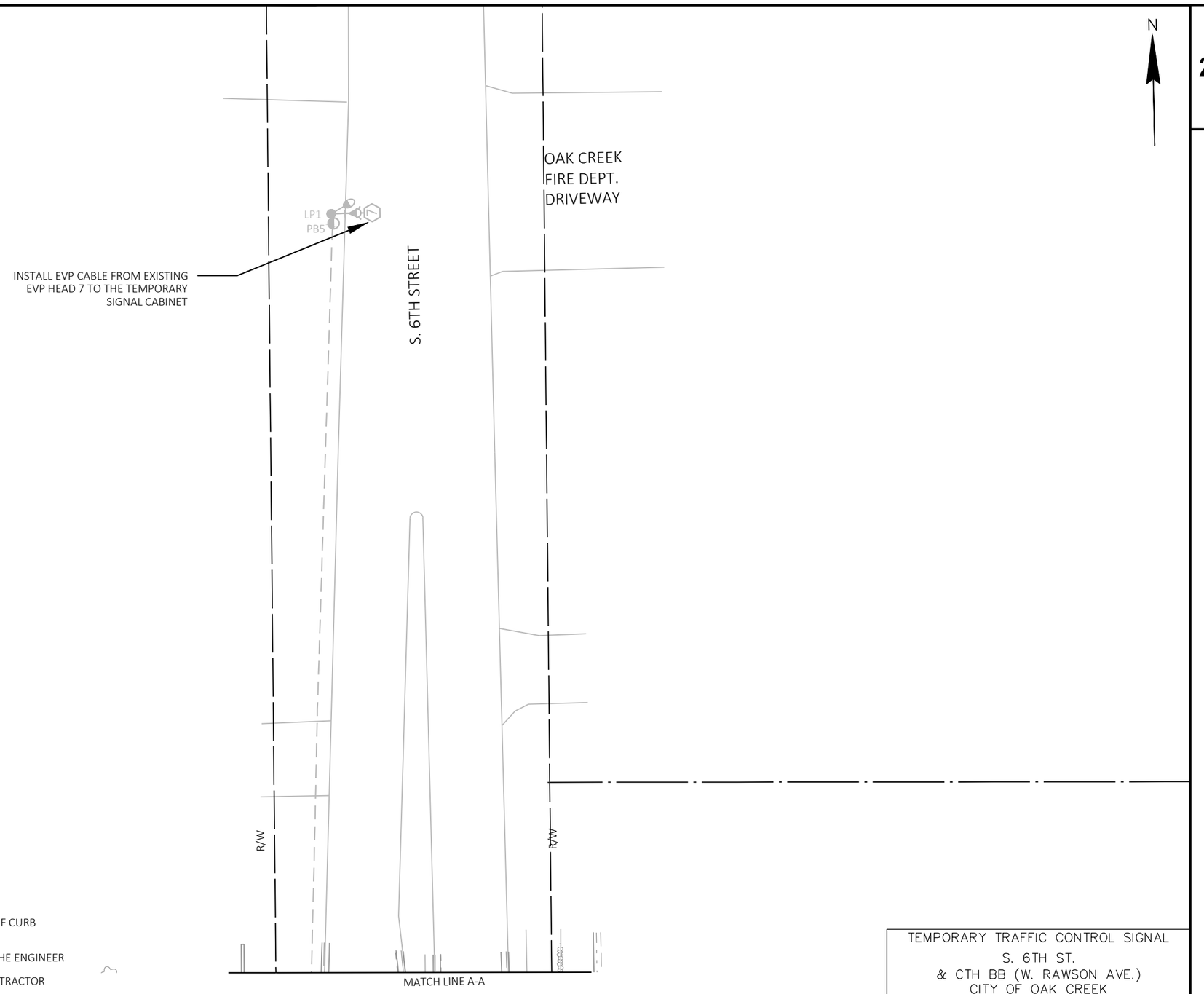
FILE NAME : O:\HIGHWAY OPERATIONS CONTROL FILE\CENTRAL FILES\2010-2014\CTH BB - W. RAWSON AVE\2050-08-01 S 13TH ST TO W HOWELL AVE\DESIGN\PLANS\20500801_TEMP SIG3 PRE STAGE 1.DWG
LAYOUT NAME - 01
PLOT DATE : 10/16/2024 11:37 AM
PLOT BY : THORNBURG, ALEX
PLOT NAME :
PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

LEGEND

- CONTROL CABINET
- OVERHEAD TEMPORARY WIRE
- WOOD POLE
- LUMINAIRE
- EVP DETECTOR HEAD
  CONFIRMATION LIGHT
- TRAFFIC SIGNAL HEAD NUMBER - 12" INDICATIONS
- RED ARROW/CIRCULAR INDICATOR
- YELLOW ARROW/CIRCULAR INDICATOR
- FLASHING YELLOW ARROW INDICATOR
- GREEN ARROW/CIRCULAR INDICATOR
- WOOD POLE OR OVERHEAD SPAN MOUNTED



NOTES:

- GRAYSHADE REPRESENTS EXISTING
- FINAL LOCATION OF SIGNAL POLE AND SIGNAL HEADS TO BE APPROVED BY THE ENGINEER
- POLE AND POSTS INSTALLED BEHIND CURBS SHALL BE OFFSET A MINIMUM OF 2 FEET FROM THE FACE OF CURB TO THE SIDE OF THE POST OR POLE
- GUYING OF POLES IS REQUIRED AND LOCATIONS SHALL BE APPROVED BY THE ENGINEER
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- ALL EVP HEADS (3-7) SHALL BE OPERATIONAL IN ALL STAGES

TEMPORARY TRAFFIC CONTROL SIGNAL
S. 6TH ST.
& CTH BB (W. RAWSON AVE.)
CITY OF OAK CREEK
MILWAUKEE COUNTY

SIGNAL NO. MC058

MILWAUKEE COUNTY DOT

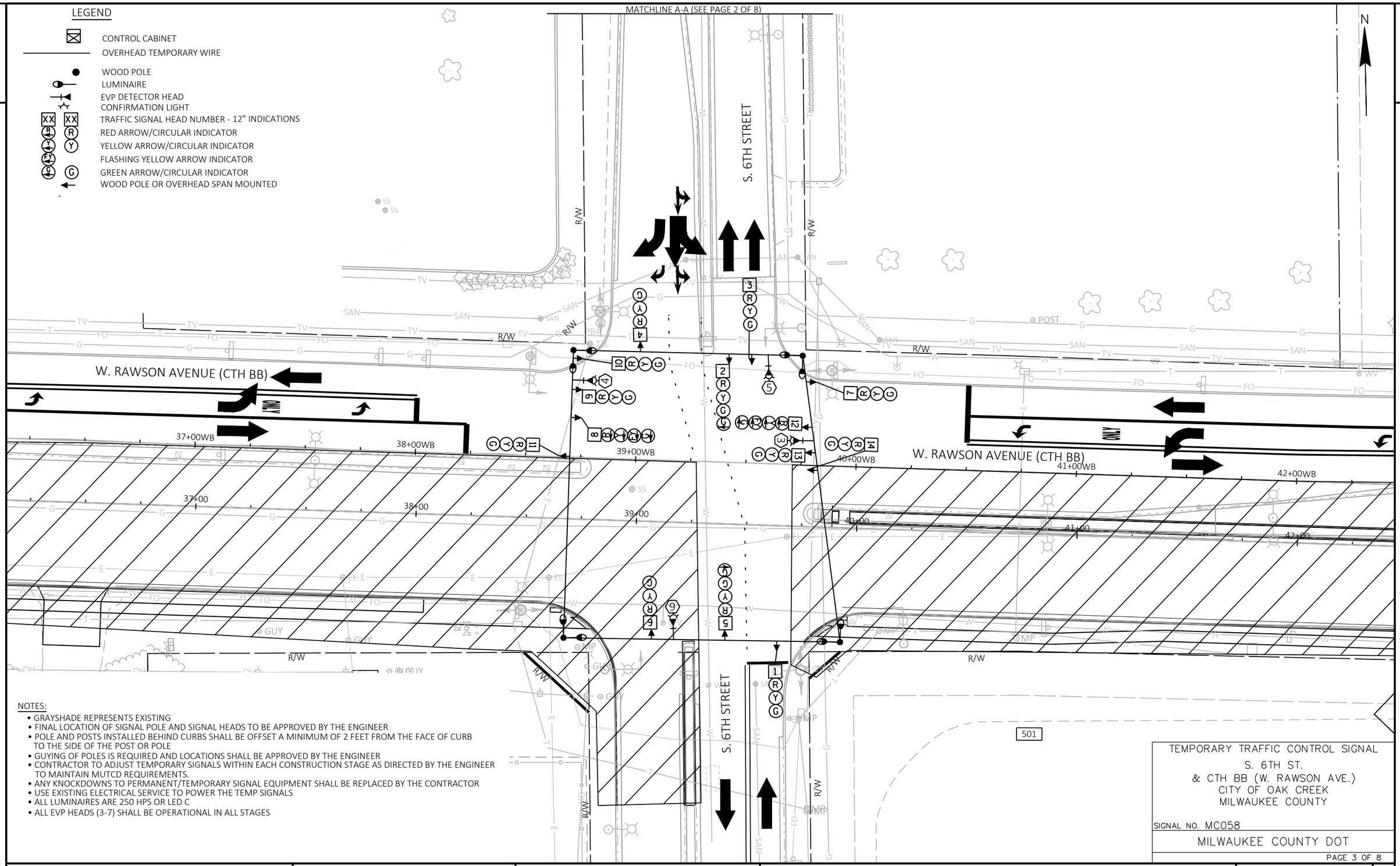
PROJECT NO: 2050-08-71	HWY: CTH BB	COUNTY: MILWAUKEE	TEMPORARY TRAFFIC SIGNAL - STAGE 1	SHEET 103	E

FILE NAME : O:\HIGHWAY OPERATIONS CONTROL FILE\CENTRAL FILES\2010-2014\CTH BB - W. RAWSON AVE\2050-08-01 S 13TH ST TO W HOWELL AVE\DESIGN\PLANS\20500801_TEMP SIG3 PRE STAGE 1.DWG
LAYOUT NAME - 02
PLOT DATE : 10/16/2024 11:37 AM PLOT BY : THORNBURG, ALEX PLOT NAME : PLOT SCALE : 1 IN:40 FT

LEGEND

- CONTROL CABINET
- OVERHEAD TEMPORARY WIRE
- WOOD POLE
- LUMINAIRE
- EVP DETECTOR HEAD CONFIRMATION LIGHT
- TRAFFIC SIGNAL HEAD NUMBER - 12" INDICATIONS
- RED ARROW/CIRCULAR INDICATOR
- YELLOW ARROW/CIRCULAR INDICATOR
- FLASHING YELLOW ARROW INDICATOR
- GREEN ARROW/CIRCULAR INDICATOR
- WOOD POLE OR OVERHEAD SPAN MOUNTED

MATCHLINE A-A (SEE PAGE 2 OF 8)



NOTES:

- GRAYSHADE REPRESENTS EXISTING
- FINAL LOCATION OF SIGNAL POLE AND SIGNAL HEADS TO BE APPROVED BY THE ENGINEER
- POLE AND POSTS INSTALLED BEHIND CURBS SHALL BE OFFSET A MINIMUM OF 2 FEET FROM THE FACE OF CURB TO THE SIDE OF THE POST OR POLE
- GUYING OF POLES IS REQUIRED AND LOCATIONS SHALL BE APPROVED BY THE ENGINEER
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TEMPORARY TRAFFIC CONTROL SIGNAL
S. 6TH ST.
& CTH BB (W. RAWSON AVE.)
CITY OF OAK CREEK
MILWAUKEE COUNTY

SIGNAL NO. MC058

MILWAUKEE COUNTY DOT

PROJECT NO: 2050-08-71	HWY: CTH BB	COUNTY: MILWAUKEE	TEMPORARY TRAFFIC SIGNAL - STAGE 2A	SHEET 104	E

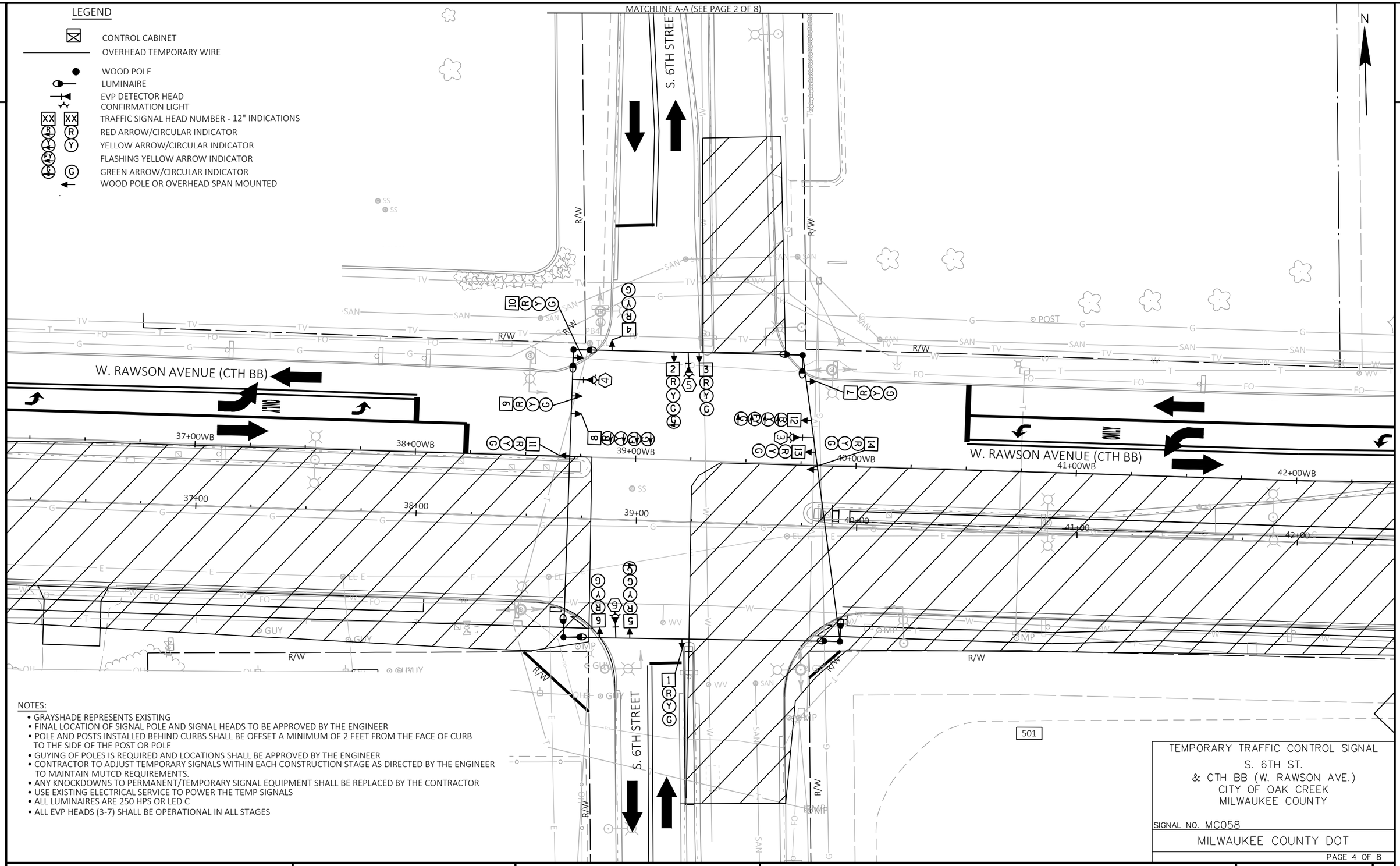
FILE NAME : O:\HIGHWAY OPERATIONS CONTROL FILE\CENTRAL FILES\2010-2014\CTH BB - W. RAWSON AVE\2050-08-01 S 13TH ST TO W HOWELL AVE\DESIGN\PLANS\20500801_TEMP SIG3 STAGE 1 - 2A.DWG
LAYOUT NAME - 01
PLOTTED : 10/16/2024 11:47 AM PLOT BY : THORNBURG, ALEX PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

LEGEND

- CONTROL CABINET
- OVERHEAD TEMPORARY WIRE
- WOOD POLE
- LUMINAIRE
- EVP DETECTOR HEAD
- CONFIRMATION LIGHT
- TRAFFIC SIGNAL HEAD NUMBER - 12" INDICATIONS
- RED ARROW/CIRCULAR INDICATOR
- YELLOW ARROW/CIRCULAR INDICATOR
- FLASHING YELLOW ARROW INDICATOR
- GREEN ARROW/CIRCULAR INDICATOR
- WOOD POLE OR OVERHEAD SPAN MOUNTED

MATCHLINE A-A (SEE PAGE 2 OF 8)



NOTES:

- GRAYSHADE REPRESENTS EXISTING
- FINAL LOCATION OF SIGNAL POLE AND SIGNAL HEADS TO BE APPROVED BY THE ENGINEER
- POLE AND POSTS INSTALLED BEHIND CURBS SHALL BE OFFSET A MINIMUM OF 2 FEET FROM THE FACE OF CURB TO THE SIDE OF THE POST OR POLE
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- ALL EVP HEADS (3-7) SHALL BE OPERATIONAL IN ALL STAGES

TEMPORARY TRAFFIC CONTROL SIGNAL
S. 6TH ST.
& CTH BB (W. RAWSON AVE.)
CITY OF OAK CREEK
MILWAUKEE COUNTY

SIGNAL NO. MC058

MILWAUKEE COUNTY DOT

PAGE 4 OF 8

PROJECT NO: 2050-08-71	HWY: CTH BB	COUNTY: MILWAUKEE	TEMPORARY TRAFFIC SIGNAL - STAGE 2B	SHEET 105	E

FILE NAME : O:\HIGHWAY OPERATIONS CONTROL FILE\CENTRAL FILES\2010-2014\CTH BB - W. RAWSON AVE\2050-08-01 S 13TH ST TO W HOWELL AVE\DESIGN\PLANS\20500801_TEMP SIG3 STAGE 1 - 2B.DWG
LAYOUT NAME - 01
PLOTTED : 10/16/2024 12:23 PM PLOT BY : THORNBURG, ALEX PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

LEGEND

- CONTROL CABINET
- OVERHEAD TEMPORARY WIRE
- WOOD POLE
- LUMINAIRE
- EVP DETECTOR HEAD
- CONFIRMATION LIGHT
- TRAFFIC SIGNAL HEAD NUMBER - 12" INDICATIONS
- RED ARROW/CIRCULAR INDICATOR
- YELLOW ARROW/CIRCULAR INDICATOR
- FLASHING YELLOW ARROW INDICATOR
- GREEN ARROW/CIRCULAR INDICATOR
- WOOD POLE OR OVERHEAD SPAN MOUNTED

MATCHLINE A-A (SEE PAGE 2 OF 8)

N

S. 6TH STREET

W. RAWSON AVENUE (CTH BB)

7001

552

501

R/W

37+00WB 38+00WB 39+00WB 40+00WB 41+00WB 42+00WB

37+00 38+00 39+00 40+00 41+00 42+00

NOTES:

- GRAYSHADE REPRESENTS EXISTING
- FINAL LOCATION OF SIGNAL POLE AND SIGNAL HEADS TO BE APPROVED BY THE ENGINEER
- POLE AND POSTS INSTALLED BEHIND CURBS SHALL BE OFFSET A MUNIMUM OF 2 FEET FROM THE FACE OF CURB TO THE SIDE OF THE POST OR POLE
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TEMPORARY TRAFFIC CONTROL SIGNAL
S. 6TH ST.
& CTH BB (W. RAWSON AVE.)
CITY OF OAK CREEK
MILWAUKEE COUNTY

SIGNAL NO. MC058

MILWAUKEE COUNTY DOT

PAGE 5 OF 8

PROJECT NO: 2050-08-71	HWY: CTH BB	COUNTY: MILWAUKEE	TEMPORARY TRAFFIC SIGNAL - STAGE 3A	SHEET 106	E

FILE NAME : O:\HIGHWAY OPERATIONS CONTROL FILE\CENTRAL FILES\2010-2014\CTH BB - W. RAWSON AVE\2050-08-01 S 13TH ST TO W HOWELL AVE\DESIGN\PLANS\20500801_TEMP SIG3 STAGE 2A.DGN
LAYOUT NAME - 01
LAST SAVE : 10/16/2024 12:30 PM PLOT BY : THORNBURG, ALEX PLOT NAME : PLOT SCALE : 1 IN:40 FT

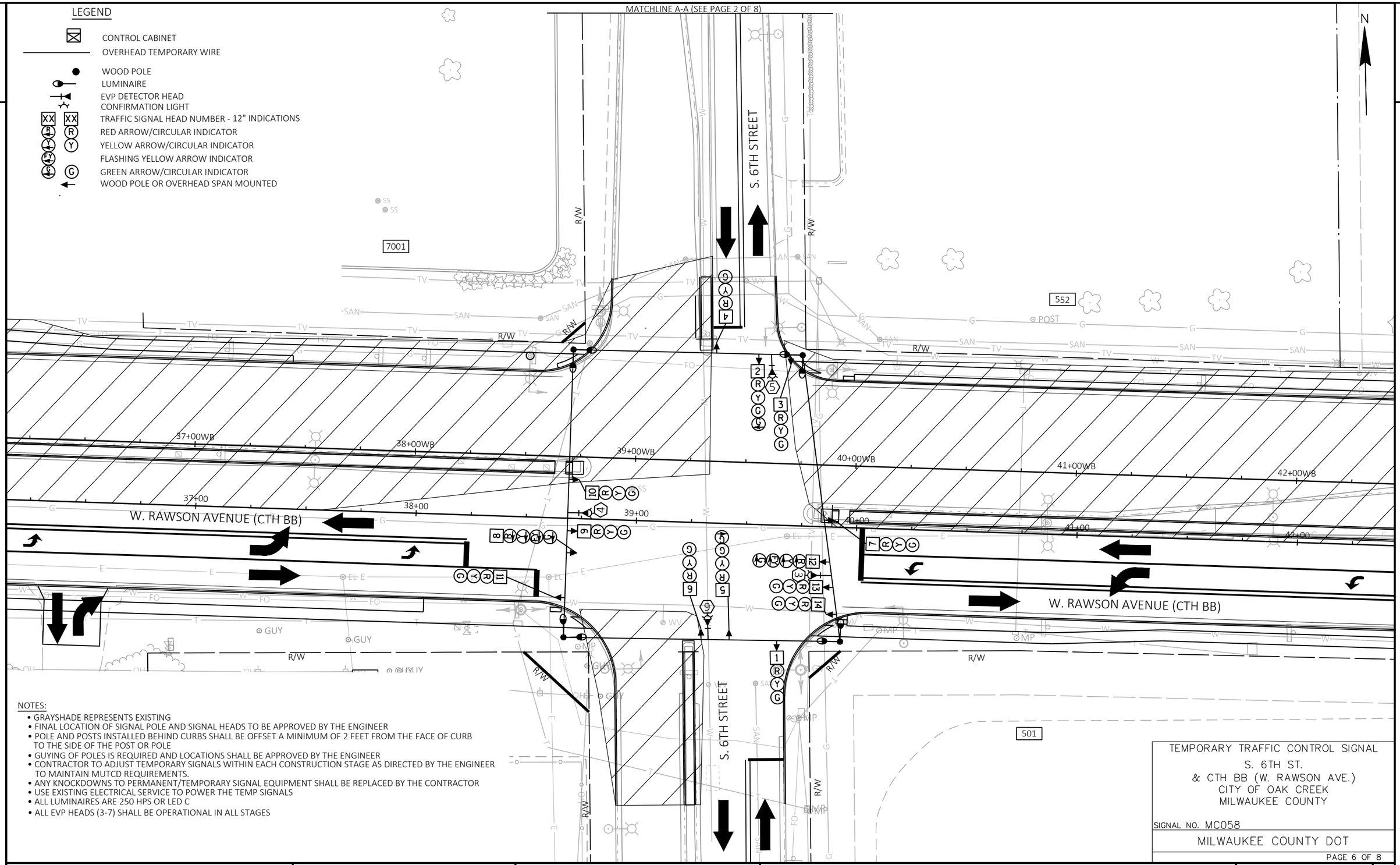
WISDOT/CADDS SHEET 42

2

LEGEND

- CONTROL CABINET
- OVERHEAD TEMPORARY WIRE
- WOOD POLE
- LUMINAIRE
- EVP DETECTOR HEAD CONFIRMATION LIGHT
- TRAFFIC SIGNAL HEAD NUMBER - 12" INDICATIONS
- RED ARROW/CIRCULAR INDICATOR
- YELLOW ARROW/CIRCULAR INDICATOR
- FLASHING YELLOW ARROW INDICATOR
- GREEN ARROW/CIRCULAR INDICATOR
- WOOD POLE OR OVERHEAD SPAN MOUNTED

MATCHLINE A-A (SEE PAGE 2 OF 8)



NOTES:

- GRAYSHADE REPRESENTS EXISTING
- FINAL LOCATION OF SIGNAL POLE AND SIGNAL HEADS TO BE APPROVED BY THE ENGINEER
- POLE AND POSTS INSTALLED BEHIND CURBS SHALL BE OFFSET A MINIMUM OF 2 FEET FROM THE FACE OF CURB TO THE SIDE OF THE POST OR POLE
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- ALL EVP HEADS (3-7) SHALL BE OPERATIONAL IN ALL STAGES

TEMPORARY TRAFFIC CONTROL SIGNAL
S. 6TH ST.
& CTH BB (W. RAWSON AVE.)
CITY OF OAK CREEK
MILWAUKEE COUNTY

SIGNAL NO. MC058

MILWAUKEE COUNTY DOT

PROJECT NO: 2050-08-71	HWY: CTH BB	COUNTY: MILWAUKEE	TEMPORARY TRAFFIC SIGNAL - STAGE 3B	SHEET 107	E

FILE NAME : O:\HIGHWAY OPERATIONS CONTROL FILE\CENTRAL FILES\2010-2014\CTH BB - W. RAWSON AVE\2050-08-01 S 13TH ST TO W HOWELL AVE\DESIGN\PLANS\20500801_TEMP SIG3 STAGE 2B PLOT DATE : 10/16/2024 12:41 PM PLOT BY : THORNBURG, ALEX PLOT NAME : PLOT SCALE : 1 IN:40 FT
LAYOUT NAME - 01

2

LEGEND

- CONTROL CABINET
- OVERHEAD TEMPORARY WIRE
- WOOD POLE
- LUMINAIRE
- EVP DETECTOR HEAD
  CONFIRMATION LIGHT
- TRAFFIC SIGNAL HEAD NUMBER - 12" INDICATIONS
- RED ARROW/CIRCULAR INDICATOR
- YELLOW ARROW/CIRCULAR INDICATOR
- FLASHING YELLOW ARROW INDICATOR
- GREEN ARROW/CIRCULAR INDICATOR
- WOOD POLE OR OVERHEAD SPAN MOUNTED

MATCHLINE A-A (SEE PAGE 2 OF 8)

N

S. 6TH STREET

W. RAWSON AVENUE (CTH BB)

7001

552

501

R/W

37+00WB 38+00WB 39+00WB 40+00WB 41+00WB 42+00WB

37+00 38+00 39+00 40+00 41+00 42+00

NOTES:

- GRAYSHADE REPRESENTS EXISTING
- FINAL LOCATION OF SIGNAL POLE AND SIGNAL HEADS TO BE APPROVED BY THE ENGINEER
- POLE AND POSTS INSTALLED BEHIND CURBS SHALL BE OFFSET A MINIMUM OF 2 FEET FROM THE FACE OF CURB TO THE SIDE OF THE POST OR POLE
- GUYING OF POLES IS REQUIRED AND LOCATIONS SHALL BE APPROVED BY THE ENGINEER
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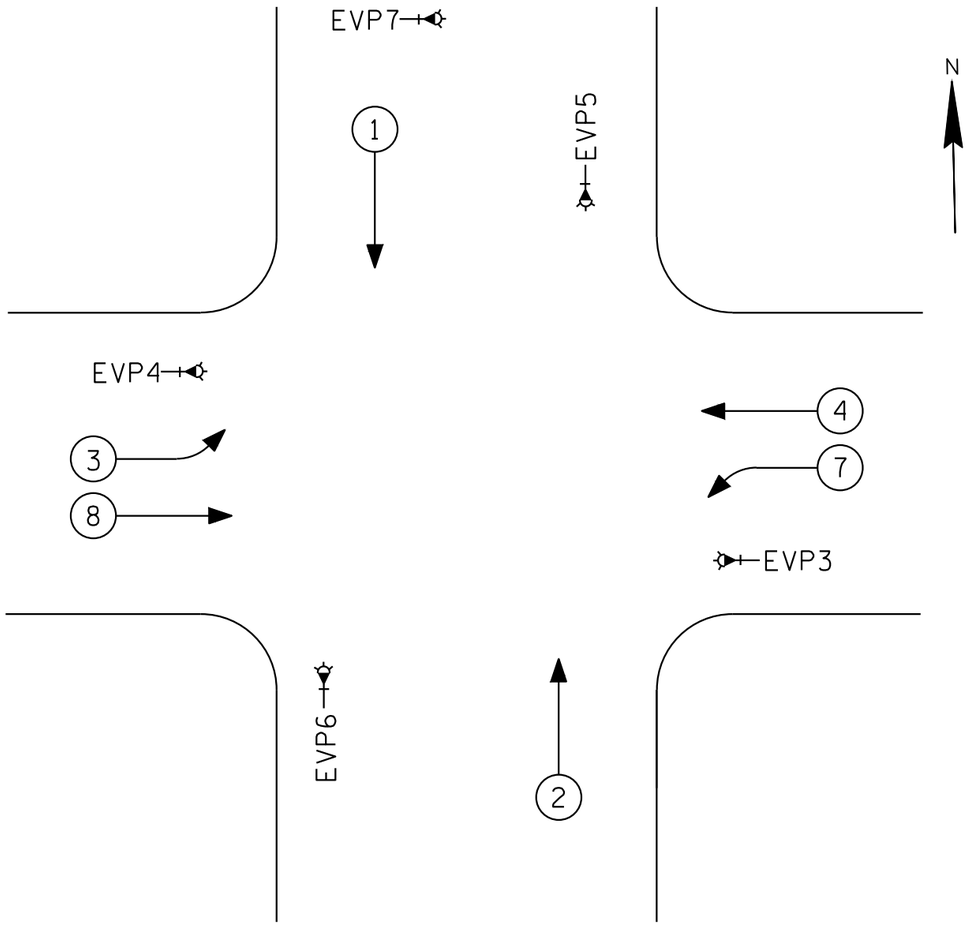
TEMPORARY TRAFFIC CONTROL SIGNAL
S. 6TH ST.
& CTH BB (W. RAWSON AVE.)
CITY OF OAK CREEK
MILWAUKEE COUNTY

SIGNAL NO. MC058

MILWAUKEE COUNTY DOT

PROJECT NO: 2050-08-71	HWY: CTH BB	COUNTY: MILWAUKEE	TEMPORARY TRAFFIC SIGNAL - STAGE 4	SHEET 108	E

FILE NAME : O:\HIGHWAY OPERATIONS CONTROL FILE\CENTRAL FILES\2010-2014\CTH BB - W. RAWSON AVE\2050-08-01 S 13TH ST TO W HOWELL AVE\DESIGN\PLANS\20500801_TEMP SIG3 STAGE 3.DWG
LAYOUT NAME - 01
PLOT DATE : 10/16/2024 1:15 PM PLOT BY : THORNBURG, ALEX PLOT NAME : PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42



PHASES				OVERLAPS		
PHASE	VEHICLE	LEFT TURN TYPE	PED	OVLP	INCLUDES	OUTPUT
1	X					
2	X					
3	X	FYA				
4	X					
5						
6				F	3 FY	10 Y
7	X	FYA				
8	X			H	7 FY	12 Y

NOTES:
- ALL PHASES ARE ON MAX RECALL
- PHASES 1 AND 2 ARE IN CONFLICT AND SHALL OPERATE AS SPLIT PHASE

COMMUNICATION	
ETHERNET SWITCH	
SM FIBER	
MM FIBER	
5.8 GHZ RADIO	
900 MHZ ETHERNET RADIO	
900 MHZ SERIAL RADIO	
ETHERNET OVER COPPER	

PRE-EMPTION	
EMERGENCY VEHICLE	X
CONFIRMATION BEACONS	X
RAILROAD	

AUXILARY EQUIPMENT	
LIGHTING FROM CABINET	X
BATTERY BACKUP	
PTZ CAMERA	
AUDIBLE PEDESTRIAN HEADS	
AUDIBLE PEDESTRIAN BUTTONS	

TEMPORARY TRAFFIC CONTROL SIGNAL
S. 6TH ST.
& CTH BB (W. RAWSON AVE.)
CITY OF OAK CREEK
MILWAUKEE COUNTY

SIGNAL NO. MC058

MILWAUKEE COUNTY DOT

PROJECT NO: 2050-08-71	HWY: CTH BB	COUNTY: MILWAUKEE	TEMPORARY TRAFFIC SIGNAL - SEQUENCE OF OPERATIONS	SHEET 109	E

FILE NAME : O:\HIGHWAY OPERATIONS CONTROL FILE\CENTRAL FILES\2010-2014\CTH BB - W. RAWSON AVE\2050-08-01 S 13TH ST TO W HOWELL AVE\DESIGN\PLANS\20500801_TEMP SIG3 STAGE 3.DWG
LAYOUT NAME - 04
PLOT DATE : 10/16/2024 1:24 PM PLOT BY : THORNBURG, ALEX PLOT NAME : PLOT SCALE : ##########
WISDOT/CADDS SHEET 42

LEGEND

- CONTROL CABINET
- NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED
- COMUNICATION VAULT, 36" DIAMETER, UNLESS OTHERWISE NOTED

N

S. 13TH STREET (CTH V)

12" STONE RETAINING WALL

14" STEEL POST SIGN BURGER KING

8" STEEL POST SIGN MOBIL

SPLICER CABINET

MAILBOX

IRRIGATION CONTROL BOX

GAS PIPELINE MARKER

STEEL SIGN BUSINESS

6' CHAIN LINK FENCE

R/W

MCI BROADBAND HANDHOLE

AT&T CABINET

AT&T HAND HOLE

CV1
EXISTING VAULT

CV 2
INTERCEPT EXISTING CONDUIT
INSTALL VAULT
INSTALL NEW 12 COUNT SM FIBER TO CV 9
INSTALL SPLICE ENCLOSURE
SPLICE (2) FIBERS

W. RAWSON AVENUE (CTH BB)

PGL W RAWSON AVE WB

8+00WB | 9+00WB | 10+00WB | 11+00WB | 12+00WB | 13+00WB | 14+00

8+75.02, -20.05' LT

10+99.98, -7.01' LT

8+00 | 9+00 | 10+00 | 11+00 | 12+00 | 13+00 | 14+00

11+16.70, -7.83' LT

PB1
REMOVE EXISTING PULL BOX
CUT FIBER/TRACER WIRE AND PULL BACK TO CV 1
REMOVE EXISTING FIBER FROM EXISTING PB1 TO CV 8

BEGIN PROJECT 2050-08-71
STA 13+06.72

R/L W RAWSON AVE

W. RAWSON AVENUE (CTH BB)

BM#12

STEEL SIGN
"BP GAS STATION"

4'x4' STONE

EX WETLAND BOUNDARY

CHAIN LINK FENCE

IE: 720.22

IE: 721.39

6' CHAIN LINK FENCE

NOTES:

- GRAYSHADE REPRESENTS EXISTING

RIGHT OF WAY IS OUTSIDE OF SHEET IN SOUTH WEST QUADRANT

PROJECT NO: 2050-08-71	HWY: CTH BB	COUNTY: MILWAUKEE	COMMUNICATIONS PLAN	SHEET 110	E

FILE NAME : O:\HIGHWAY OPERATIONS CONTROL FILE\CENTRAL FILES\2010-2014\CTH BB - W. RAWSON AVE\2050-08-01 S 13TH ST TO W HOWELL AVE\DESIGN\PLANS\20500801_CM.DWG
LAYOUT NAME - 10

PLOT DATE : 10/22/2024 6:31 AM | PLOT BY : THORNBURG, ALEX | PLOT NAME : | PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

2

LEGEND

CONTROL CABINET

NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED

COMUNICATION VAULT, 36" DIAMETER, UNLESS OTHERWISE NOTED

N

20+00.00

14+00.00

STEEL SIGN C.W. PURPERO

ENTER SIGN BURGER KING

POST

FLAGPOLE

10' HEDGE

ASPH

CONC

7055

1000

R/W

W. RAWSON AVENUE (CTH BB)

CV 3
INSTALL VAULT

CV4
REMOVE EXISTING VAULT
INSTALL VAULT
INSTALL SPLICE ENCLOSURE
SPLICE (4) FIBERS

PGL W RAWSON AVE WB

15+00WB

16+00WB

17+00WB

18+00WB

19+00WB

15+12.54, -22.83' LT

17+14.35, -10.56' LT

19+82.81, -22.39' LT

15+00

16+00

17+00

18+00

19+00

GRASS

R/L W RAWSON AVE

EV2
EXISTING VAULT TO BE REMOVED

PB3
EXISTING PULL BOX
TO BE REMOVED

17+29.72, -7.93' LT

19+98.05, 50.78' RT

MAILBOX

BM#13

FIBER MARKER

AT&T HAND HOLE

GAS PIPELINE MARKER

1131

1121

1019

MCI HAND HOLE

STEEL SIGN STORAGE RENTALS

RETAINING WALL

6' CHAIN LINK FENCE

6' CHAIN LINK FENCE
DOUBLE GATE

CB1 (10th ST)
TERMINATE 4 FIBERS

STEEL SIGN OAK CREEK
INDUSTRIAL PARK

CV5
REMOVE VAULT (ROUND)
INTERCEPT EXISTING CONDUIT FROM CABINET
INSTALL VAULT

NOTES:

- GRAYSHADE REPRESENTS EXISTING

PROJECT NO: 2050-08-71	HWY: CTH BB	COUNTY: MILWAUKEE	COMMUNICATIONS PLAN	SHEET 111	E

FILE NAME : O:\HIGHWAY OPERATIONS CONTROL FILE\CENTRAL FILES\2010-2014\CTH BB - W. RAWSON AVE\2050-08-01 S 13TH ST TO W HOWELL AVE\DESIGN\PLANS\20500801_CM.DWG
LAYOUT NAME - 11
PLOT DATE : 10/16/2024 2:02 PM
PLOT BY : THORNBURG, ALEX
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2

2

LEGEND

CONTROL CABINET

NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED

COMUNICATION VAULT, 36" DIAMETER, UNLESS OTHERWISE NOTED

N

26+00.00

S. 10TH STREET

W. RAWSON AVENUE (CTH BB)

20+00.00

S. 10TH STREET

STEEL SIGN OAK CREEK INDUSTRIAL PARK

950

14"+14" STEEL SIGN POST HERCRENTALS

6'H"x8'W 4"x4" Wood Sign

IRON POST 1' TALL

POST W/ 2 AT&T BOXES

48" SINKHOLE MARKER

6' CYCLONE FENCE

AT&T CABINET

CV6 INSTALL VAULT

CV7 INSTALL VAULT

PB8 REMOVE EXISTING PULL BOX

PGL W RAWSON AVE WB

21+60.29, -4.66' LT

24+08.69, -22.83' LT

25+50.19, -7.92' LT

R/L W RAWSON AVE

PB6 REMOVE EXISTING PULL BOX

21+26.23, -7.11' LT

PB7 REMOVE EXISTING PULL BOX

REMOVE FLASHER CONCRETE BASE

AT&T HAND HOLE

STEEL SIGN ABANDONED

GAS PIPELINE MARKER

945

8' HEDGE

6' HEDGE

FIBER MARKER

MAILBOX

921

841

3" STEEL 3' TALL POST

NOTES:

- GRAYSHADE REPRESENTS EXISTING

PROJECT NO: 2050-08-71	HWY: CTH BB	COUNTY: MILWAUKEE	COMMUNICATIONS PLAN	SHEET 112	E

FILE NAME : O:\HIGHWAY OPERATIONS CONTROL FILE\CENTRAL FILES\2010-2014\CTH BB - W. RAWSON AVE\2050-08-01 S 13TH ST TO W HOWELL AVE\DESIGN\PLANS\20500801_CM.DWG
LAYOUT NAME - 12
PLOT DATE : 10/16/2024 2:02 PM PLOT BY : THORNBURG, ALEX PLOT NAME : PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2

LEGEND

CONTROL CABINET

NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED

COMUNICATION VAULT, 36" DIAMETER, UNLESS OTHERWISE NOTED

N

32+00.00

7000

6' CYCLONE FENCE

R/W

750

950

ASPH

GAS PIPELINE MARKER

I-FIBER HANDHOLE

FIBER MARKER

GUY

MP

CONC BRIDGE SUPPORT

18" CONC WING WALL

MWEL

FIBER OPTIC H

CONC

W. RAWSON AVENUE (CTH BB)

CV8
ADJUST EXISTING VAULT
CUT FIBER/TRACER WIRE, PULL TO CV9

CV9
INTERCEPT EXISTING CONDUIT
INSTALL VAULT
INSTALL SPLICE ENCLOSURE
SPLICE (4) FIBERS

27+00WB

28+00WB

29+00WB

30+00WB

31+00WB

PGL W RAWSON AVE WB

GRASS

B-40-385
(EXISTING)

R/L W RAWSON AVE

29+08.40, -3.56' LT

31+23.01, -3.90' LT

CONC SUPPORT FOR BRIDGE

GAS LOCATOR POST

PUMP STATION

CONC STEPS

BM#15

POST

3" STEEL 4' TALL POST

DOUBLE GATE FENCE

6' CYCLONE FENCE

841

735

621

CANADIAN PACIFIC RAILWAY

PS1
INSTALL PULLBOX 24"X36"
INSTALL CONDUIT INTO PUMP STATION BUILDING
ROUTE FIBER TO SOUTH WALL
TERMINATE FIBER (4)

LARGE WATER PUMP STATION

26+00.00

NOTES:

- GRAYSHADE REPRESENTS EXISTING

PROJECT NO: 2050-08-71	HWY: CTH BB	COUNTY: MILWAUKEE	COMMUNICATIONS PLAN	SHEET 113	E

FILE NAME : O:\HIGHWAY OPERATIONS CONTROL FILE\CENTRAL FILES\2010-2014\CTH BB - W. RAWSON AVE\2050-08-01 S 13TH ST TO W HOWELL AVE\DESIGN\PLANS\20500801_CM.DWG
LAYOUT NAME - 13
PLOT DATE : 10/16/2024 2:02 PM
PLOT BY : THORNBURG, ALEX
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2

LEGEND

CONTROL CABINET

NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED

COMUNICATION VAULT, 36" DIAMETER, UNLESS OTHERWISE NOTED

N

38+00.00

32+00.00

2

IRRIGATION CONTROL BOX

SPECTRUM CABLE HANDHOLE

IRRIGATION CONTROL BOX

12" LANDSCAPE RETAINING WALL

3' HEDGE

7001

199

200

201

6404

5405

12" LANDSCAPE RETAIN

R/W

10" WOOD 4' TALL W/SPC BOXES

POST

FIBER MARKER

FIBER OPTIC HANDHOLE

HP

W. RAWSON AVENUE (CTH BB)

33+00WB

34+00WB

35+00WB

36+00WB

37+00WB

PGL W RAWSON AVE WB

GRASS

33+00

34+00

35+00

36+00

37+00

PB9
ADJUST EXISTING PULL BOX

R/L W RAWSON AVE

ASPH

CONC

BM#22

CONTROL BOX

6" STEEL 4' TALL POSTS

STEPS

GUY

GRVL

HH 36" ROUND

571

621

7' CY

4' RAIL FENCE W/ DOUBLE GATE

NOTES:

- GRAYSHADE REPRESENTS EXISTING

PROJECT NO: 2050-08-71	HWY: CTH BB	COUNTY: MILWAUKEE	COMMUNICATIONS PLAN	SHEET 114	E

LEGEND

- CONTROL CABINET
- NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED
- COMUNICATION VAULT, 36" DIAMETER, UNLESS OTHERWISE NOTED

N

44+00.00

12" LANDSCAPE RET

ASPH

S. 6TH STREET

CONC

STEEL SIGN
OAK CREEK BUSINESS PARK

REMOVE FLASHER
CONCRETE BASE

SPECTRUM CABLE
DOUBLE HANDHOLE

8"x8" WOOD POST
FOR SIGN VET
MEMORIAL PARK

POST

552

500

10' HEDGE

AT&T HANDHOLE

R/W

CV10
ADJUST EXISTING VAULT
(ROUND)

W. RAWSON AVENUE (CTH BB)

CV12
INSTALL VAULT

PGL W RAWSON AVE WB

39+00WB

40+00WB

41+00WB

42+00WB

43+00WB

38+20.62, -23.72' LT

39+00

40+00

41+00

42+00

43+00

43+63.68, -21.49' LT

R/L W RAWSON AVE

38+20.41, 50.99' RT

CV11
ADJUST EXISTING VAULT
(ROUND)

TCB

AT&T HANDHOLE

GAS PIPELINE MARKER

CLONE FENCE

VISDOT

BM#16

BM#17

BM#18

FIBER MARKER

FIBER OPTIC HANDHOLE

HANDHOLE

FIBER MARKER HAND HOLE

501

2' STONE

14" POST SIGN
FARM & FLEET

38+00.00

NOTES:

- GRAYSHADE REPRESENTS EXISTING

2

LEGEND

CONTROL CABINET

NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED

COMUNICATION VAULT, 36" DIAMETER, UNLESS OTHERWISE NOTED

N

50+00.00

400

6' HEDGE

10' HEDGE

6' HEDGE

STEEL SIGN FASTENAL

ASPH

CONC

R/W

HSE

4' STONE

328

4' STONE

MAILBOX

GUY

308

MAILBOX

6' HEDGE

GRVL

10' HEDGE

CONC

ASPH

CV13
INSTALL VAULT

W. RAWSON AVENUE (CTH BB)

45+00WB

46+00WB

47+00WB

48+00WB

49+00WB

PGL W RAWSON AVE WB

46+80.85, -20.82' LT

GRASS

R/L W RAWSON AVE

ASPH

165

166

ASPH

CONC

R/W

2' STONE
1.5' STONE

FILLED W/1" STONES

501

GUY

BM#19

MAILBOX

POST

CONC

GRVL

MAILBOX

HSE

315

HSE

295

ASPH

R/W

44+00.00

NOTES:

- GRAYSHADE REPRESENTS EXISTING

PROJECT NO: 2050-08-71	HWY: CTH BB	COUNTY: MILWAUKEE	COMMUNICATIONS PLAN	SHEET 116	E

FILE NAME : O:\HIGHWAY OPERATIONS CONTROL FILE\CENTRAL FILES\2010-2014\CTH BB - W. RAWSON AVE\2050-08-01 S 13TH ST TO W HOWELL AVE\DESIGN\PLANS\20500801_CM.DWG
LAYOUT NAME - 16

PLOT DATE : 10/16/2024 2:02 PM PLOT BY : THORNBURG, ALEX PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

LEGEND

- CONTROL CABINET
- NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED
- COMUNICATION VAULT, 36" DIAMETER, UNLESS OTHERWISE NOTED

N

56+00.00

50+00.00

EX WETLAND BOUNDARY

NORTH BRANCH OAK CREEK

9" CONC. HEADWALL

36" CMP WEST END BURIED

BOTH ENDS IN MUD

IE:709.73

15" STONE RETAINING WAL

MAILBOX

POST

R/W

296

200

W. RAWSON AVENUE (CTH BB)

CV 14 INSTALL VAULT

50+52.57, -22.16' LT

CV15 INSTALL VAULT

55+49.43, -22.62' LT

PGL W RAWSON AVE WB

R/L W RAWSON AVE

B-40-389 (EXISTING)

11'X6' CULVERT

16'x10' CONC ARCH CULVERT (ABANDONED)

51+00WB

52+00WB

53+00WB

54+00WB

55+00WB

51+00

52+00

53+00

54+00

55+00

ASPH

GRASS

CONC

GUY

9" CONC. HEADWALL

BMH20

IE: 707.97

IE: 707.64

IE: 715.56

IE: 716.80

12" CPP

WSE IE:709.42
12-6-21

GAS PIPELINE MARKER

6"+6" STEEL POST SIGN
FUN RENTALS

225

204

185

165

NOTES:

- GRAYSHADE REPRESENTS EXISTING

PROJECT NO: 2050-08-71	HWY: CTH BB	COUNTY: MILWAUKEE	COMMUNICATIONS PLAN	SHEET 117	E

FILE NAME : O:\HIGHWAY OPERATIONS CONTROL FILE\CENTRAL FILES\2010-2014\CTH BB - W. RAWSON AVE\2050-08-01 S 13TH ST TO W HOWELL AVE\DESIGN\PLANS\20500801_CM.DWG
LAYOUT NAME - 17

PLOT DATE : 10/16/2024 2:02 PM PLOT BY : THORNBURG, ALEX PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

2

LEGEND

- CONTROL CABINET
- NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED
- COMUNICATION VAULT, 36" DIAMETER, UNLESS OTHERWISE NOTED

N

CINDER BLOCK SIGN
CAR WASH

BROADBAND

8" PVC
CLEANOUT

150

100

R/W

ASPH

61+13.86, -92.40' LT

CV17
INSTALL VAULT

WATERMAIN MARKER

BM#23

AT&T HANDHOLE

5' STONE

CONC

CV16
INSTALL VAULT
61+12.55, -22.80' LT

57+00WB

58+00WB

59+00WB

60+00WB

61+00WB

PGL W RAWSON AVE WB

GRASS

57+00

58+00

59+00

60+00

61+00

R/L W RAWSON AVE

W. RAWSON AVENUE (CTH BB)

END PROJECT 2050-08-71
STA 61+38.66

BM#21

GAS PIPELINE
MARKER

GRVL

FIBER MARKER

TEL MARKER

135

7115

S. 1ST STREET

STEEL SIGN
OAK CREEK BUSINESS
INDUST. PARK

12" STEEL POST FOR
SIGN "COUSIN SUBS"

LANDSCAPING
W/WOOD CHIPS

56+00.00

NOTES:

- GRAYSHADE REPRESENTS EXISTING

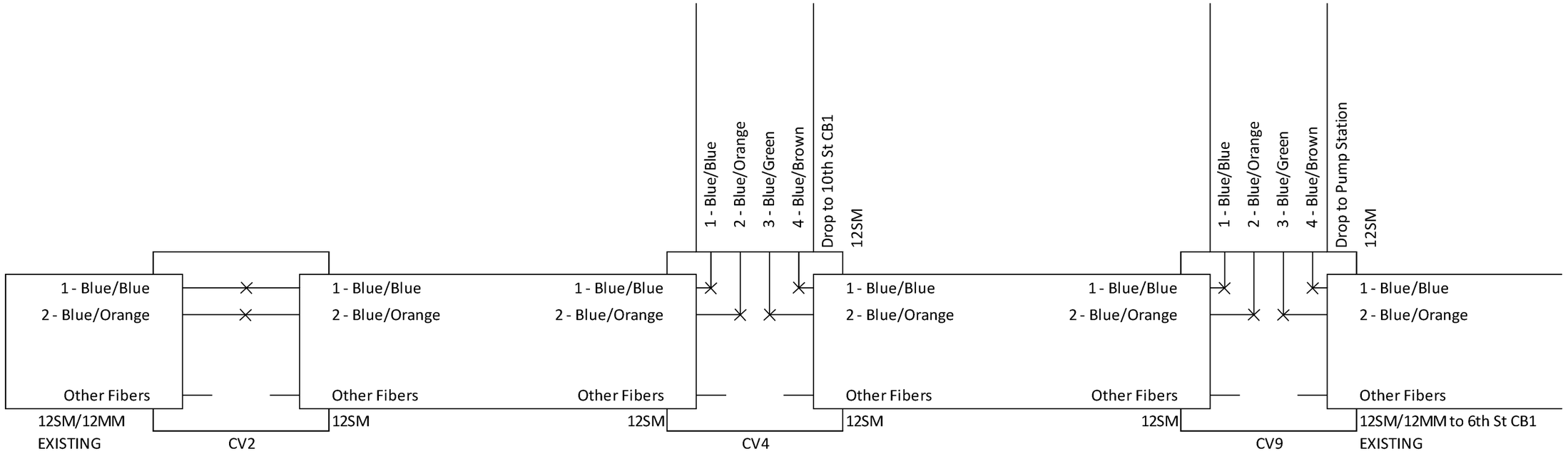
PROJECT NO: 2050-08-71	HWY: CTH BB	COUNTY: MILWAUKEE	COMMUNICATIONS PLAN	SHEET 118	E

FILE NAME : O:\HIGHWAY OPERATIONS CONTROL FILE\CENTRAL FILES\2010-2014\CTH BB - W. RAWSON AVE\2050-08-01 S 13TH ST TO W HOWELL AVE\DESIGN\PLANS\20500801_CM.DWG
LAYOUT NAME - 18

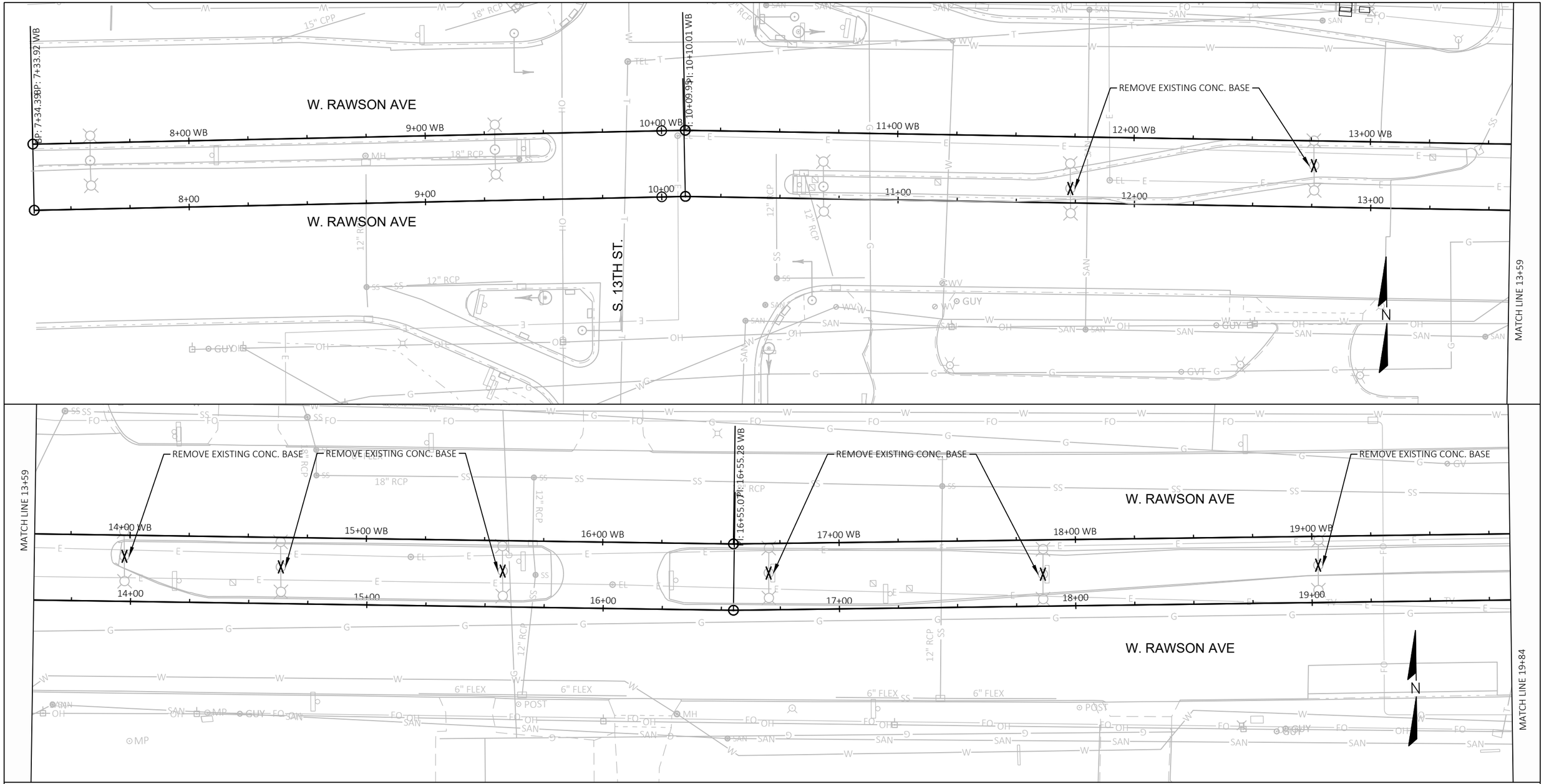
PLOT DATE : 10/16/2024 2:02 PM PLOT BY : THORNBURG, ALEX PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2



PROJECT NO: 2050-08-71	HWY: CTH BB	COUNTY: MILWAUKEE	COMMUNICATIONS PLAN	SHEET 119	E



LIGHTING PLAN LEGEND

PROPOSED	EXISTING	
☒	☒	DISTRIBUTION CENTER
◐	◐	PULL BOX- 24" UNLESS OTHERWISE NOTED)
- - - - - - -	- - - - - - -	CONDUIT- 2" UNLESS OTHERWISE NOTED)
-·-·-·-	-·-·-·-	CID (CABLE IN DUCT)
⊸●	⊸○	LOCAL MUNI. POLE
\\\\ OR X		REMOVAL/ABANDON

NOTE: EXISTING ELECTRICAL AND CONDUIT TO BE ABANDONED IN PLACE. CONTRACTOR MAY REMOVE ELECTRICAL WIRE AT NO COST TO THE CITY. ANY ELECTRICAL WIRE REMOVED WILL BE THE CONTRACTOR'S PROPERTY.

BAR SCALE

0 20 40 60

1" = 40'

SA.
ST.
W.
G.
E.
T.
I.
TS.
PP.

CITY OF OAK CREEK - ENGINEERING DEPARTMENT

DESIGNED BY	DATE	DRAWN BY	DATE	CHECKED BY	DATE
A. LEDGER	05/24	M. JOHNSON	05/24	A. LEDGER	05/24

REMOVALS - STREET LIGHTING

IN: W. RAWSON AVENUE

FROM: STA.13+59

TO: STA. 19+84

APPROVED BY COUNCIL RESOLUTION NO. XXXXX-XXXXXXXX

SCALE	SHEET
PLAN HOR. 1" =40'	02
PROFILE HOR.	OF
VER.	11

FILE NO: XXXXX

MATCH LINE 19+84

W. RAWSON AVE

S. 10TH ST.

REMOVE EXISTING CONC. BASE

REMOVE EXISTING CONC. BASE

PI: 26+02.29 WB

20+00 WB | 21+00 WB | 22+00 WB | 23+00 WB | 24+00 WB | 25+00 WB | 26+00 WB

20+00 | 21+00 | 22+00 | 23+00 | 24+00 | 25+00 | 26+00

MATCH LINE 26+09

MATCH LINE 26+09

REMOVE EXISTING CONC. BASE

W. RAWSON AVE

PI: 29+06.18

REMOVE EXISTING CONC. BASE

REMOVE EXISTING CONC. BASE

27+00 WB | 28+00 WB | 29+00 WB | 30+00 WB | 31+00 WB | 32+00 WB

27+00 | 28+00 | 29+00 | 30+00 | 31+00 | 32+00

W. RAWSON AVE

MATCH LINE 32+34

LIGHTING PLAN LEGEND

PROPOSED	EXISTING	
⊠	⊠	DISTRIBUTION CENTER
◐	◐	PULL BOX- 24" UNLESS OTHERWISE NOTED)
- - - - - - -	- - - - - - -	CONDUIT- 2" UNLESS OTHERWISE NOTED)
-·-·-·-·-	-·-·-·-·-	CID (CABLE IN DUCT)
⊸●	⊸○	LOCAL MUNI. POLE
\\\\ OR X		REMOVAL/ABANDON

NOTE: EXISTING ELECTRICAL AND CONDUIT TO BE ABANDONED IN PLACE. CONTRACTOR MAY REMOVE ELECTRICAL WIRE AT NO COST TO THE CITY. ANY ELECTRICAL WIRE REMOVED WILL BE THE CONTRACTOR'S PROPERTY.

BAR SCALE

0 20 40 60

1" = 40'

SA.
ST.
W.
G.
E.
T.
I.
TS.
PP.

CITY OF OAK CREEK - ENGINEERING DEPARTMENT

DESIGNED BY	DATE	DRAWN BY	DATE	CHECKED BY	DATE
A. LEDGER	05/24	M. JOHNSON	05/24	A. LEDGER	05/24

REMOVALS - STREET LIGHTING

IN: W. RAWSON AVENUE

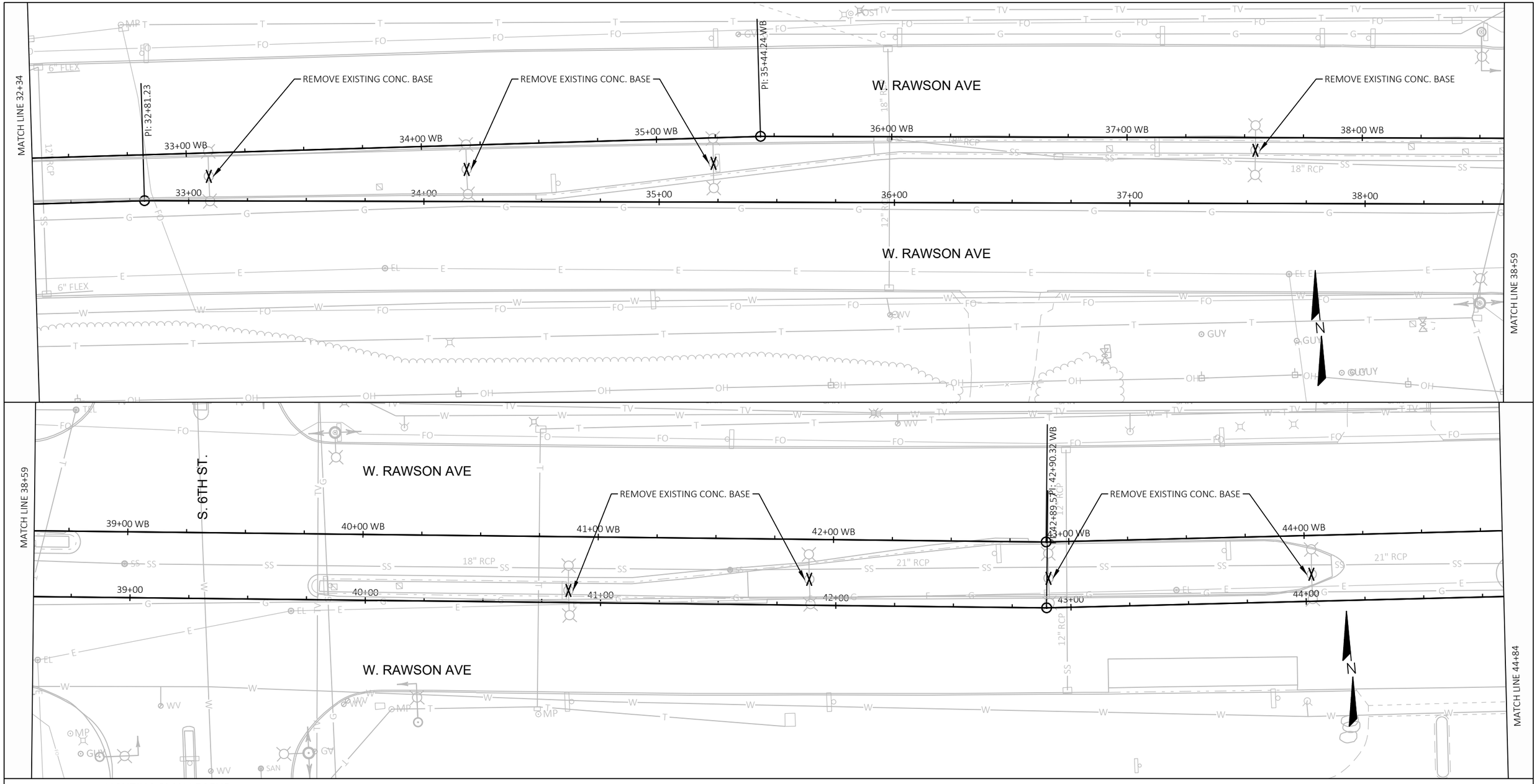
FROM: STA. 19+84

TO: STA. 32+34

SCALE	SHEET
PLAN HOR. 1" =40'	03
PROFILE HOR.	OF
VER.	11

APPROVED BY COUNCIL RESOLUTION NO. XXXXX-XXXXXXXX

FILE NO: XXXXX



LIGHTING PLAN LEGEND

PROPOSED	EXISTING	
⊠	⊠	DISTRIBUTION CENTER
◐	◐	PULL BOX- 24" UNLESS OTHERWISE NOTED)
- - - - - - -	- - - - - - -	CONDUIT- 2" UNLESS OTHERWISE NOTED)
-·-·-·-	-·-·-·-	CID (CABLE IN DUCT)
⊸	⊸	LOCAL MUNI. POLE
\\\\ OR X		REMOVAL/ABANDON

NOTE: EXISTING ELECTRICAL AND CONDUIT TO BE ABANDONED IN PLACE. CONTRACTOR MAY REMOVE ELECTRICAL WIRE AT NO COST TO THE CITY. ANY ELECTRICAL WIRE REMOVED WILL BE THE CONTRACTOR'S PROPERTY.

BAR SCALE

0 20 40 60

1" = 40'

SA.	
ST.	
W.	
G.	
E.	
T.	
I.	
TS.	
PP.	

CITY OF OAK CREEK - ENGINEERING DEPARTMENT

DESIGNED BY	DATE	DRAWN BY	DATE	CHECKED BY	DATE
A. LEDGER	05/24	M. JOHNSON	05/24	A. LEDGER	05/24

REMOVALS - STREET LIGHTING

IN: W. RAWSON AVENUE

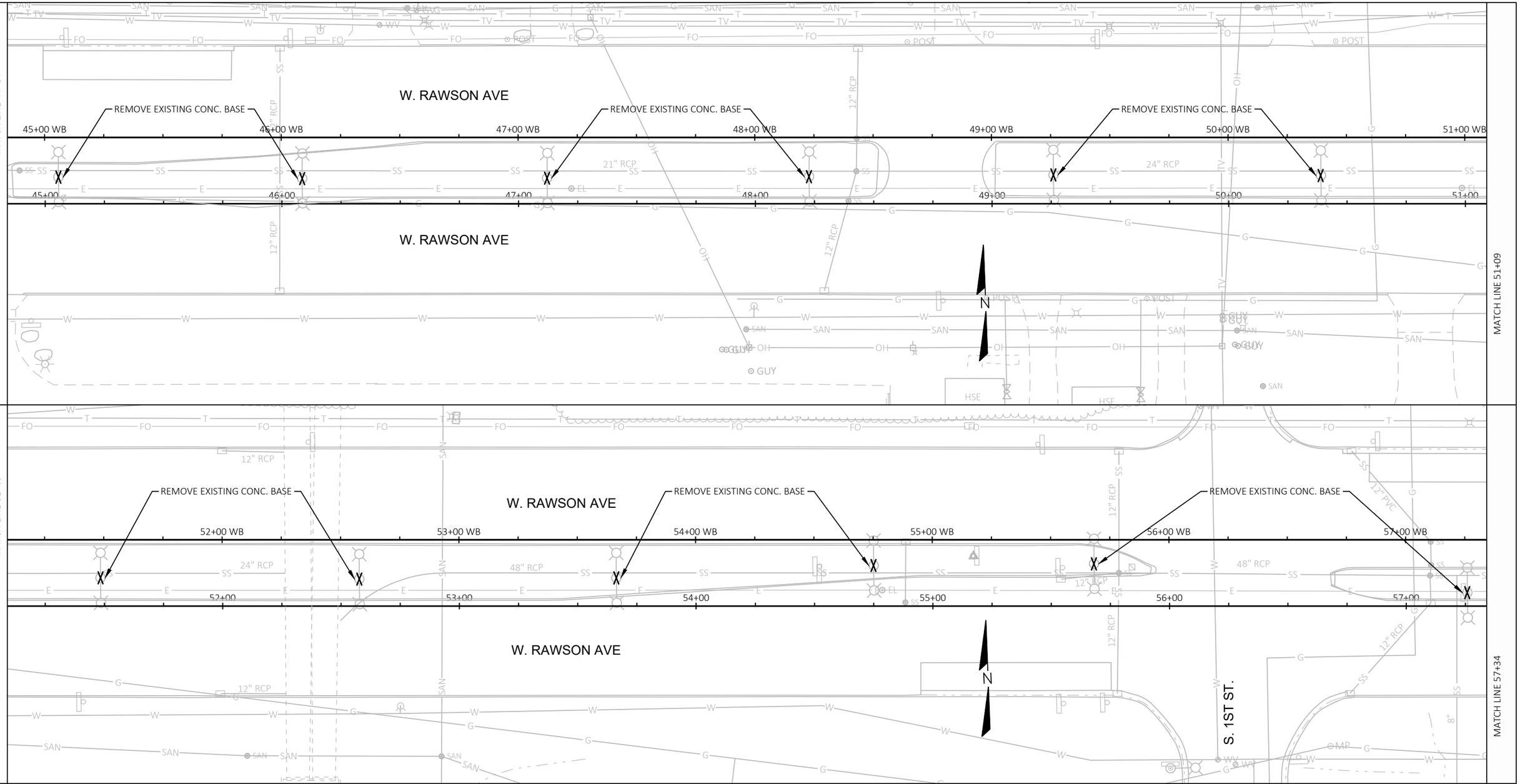
FROM: STA. 32+34

TO: STA. 44+84

APPROVED BY COUNCIL RESOLUTION NO. XXXXX-XXXXXXXX

SCALE	SHEET
PLAN HOR. 1" =40'	04
PROFILE HOR. ____	OF
VER. ____	11

FILE NO: XXXXX



LIGHTING PLAN LEGEND

PROPOSED	EXISTING	
☒	☒	DISTRIBUTION CENTER
◐	◐	PULL BOX- 24" UNLESS OTHERWISE NOTED)
- - - - - - -	- - - - - - -	CONDUIT- 2" UNLESS OTHERWISE NOTED)
-·-·-·-·-	-·-·-·-·-	CID (CABLE IN DUCT)
⊸✱	⊸○	LOCAL MUNI. POLE
\\\\ OR X		REMOVAL/ABANDON

NOTE: EXISTING ELECTRICAL AND CONDUIT TO BE ABANDONED IN PLACE. CONTRACTOR MAY REMOVE ELECTRICAL WIRE AT NO COST TO THE CITY. ANY ELECTRICAL WIRE REMOVED WILL BE THE CONTRACTOR'S PROPERTY.

BAR SCALE

0 20 40 60

1" = 40'

SA.	
ST.	
W.	
G.	
E.	
T.	
I.	
TS.	
PP.	

CITY OF OAK CREEK - ENGINEERING DEPARTMENT

DESIGNED BY	DATE	DRAWN BY	DATE	CHECKED BY	DATE
A. LEDGER	05/24	M. JOHNSON	05/24	A. LEDGER	05/24

REMOVALS - STREET LIGHTING

IN: W. RAWSON AVENUE

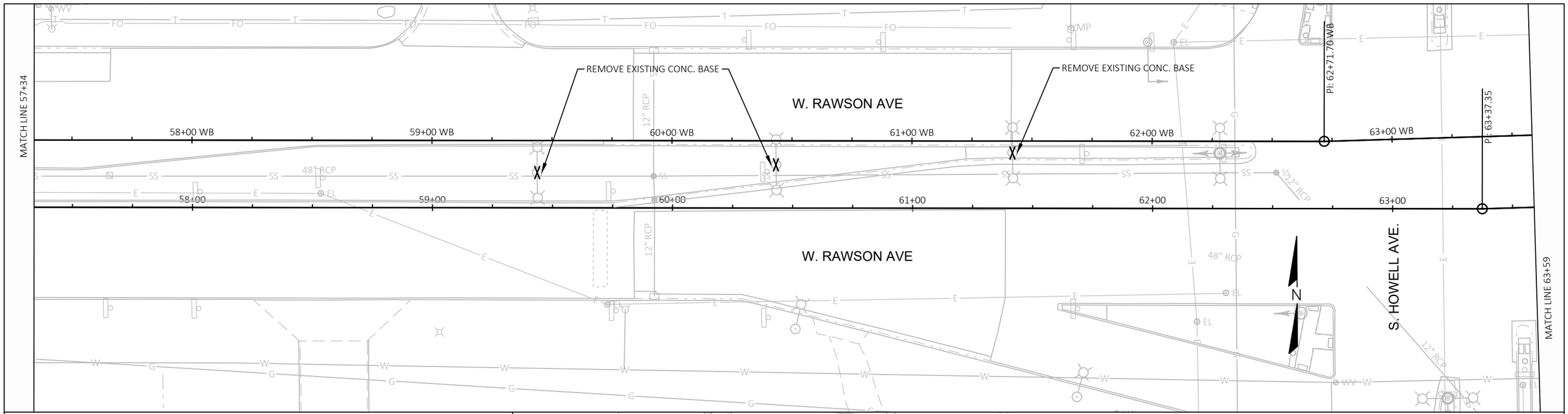
FROM: STA. 44+84

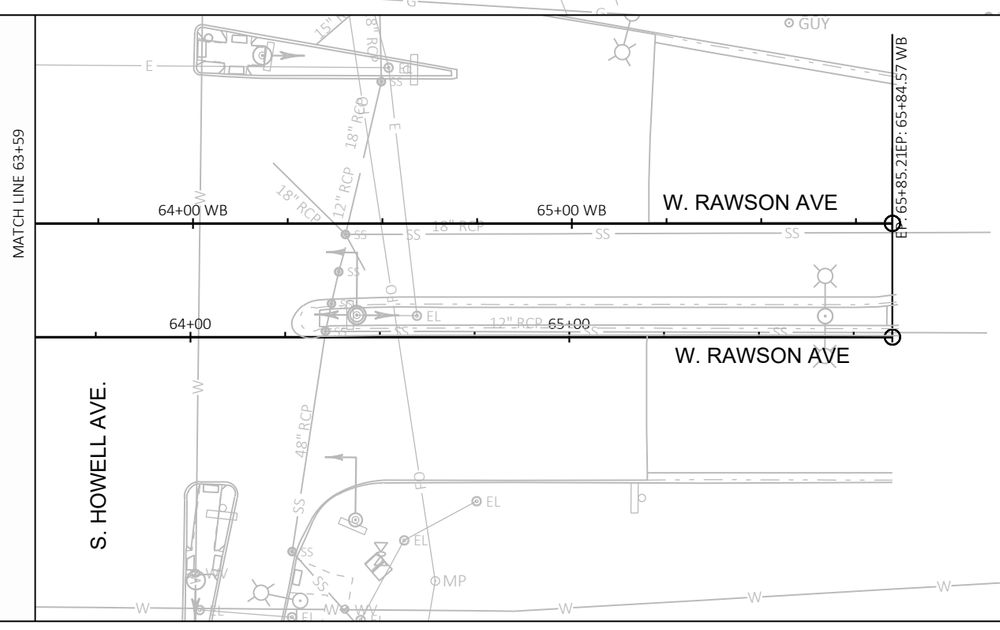
TO: STA. 57+34

APPROVED BY COUNCIL RESOLUTION NO. XXXXX-XXXXXXXX

SCALE	SHEET
PLAN HOR. 1" =40'	05
PROFILE HOR.	OF
VER.	11

FILE NO: XXXXX





LIGHTING PLAN LEGEND

PROPOSED	EXISTING	
⊠	⊠	DISTRIBUTION CENTER
◐	◐	PULL BOX- 24" UNLESS OTHERWISE NOTED)
- - - - - - -	- - - - - - -	CONDUIT- 2" UNLESS OTHERWISE NOTED)
-·-·-·-·-	-·-·-·-·-	CID (CABLE IN DUCT)
⊸●	⊸○	LOCAL MUNI. POLE
\\\\ OR X		REMOVAL/ABANDON

NOTE: EXISTING ELECTRICAL AND CONDUIT TO BE ABANDONED IN PLACE. CONTRACTOR MAY REMOVE ELECTRICAL WIRE AT NO COST TO THE CITY. ANY ELECTRICAL WIRE REMOVED WILL BE THE CONTRACTOR'S PROPERTY.

BAR SCALE

0 20 40 60

1" = 40'

SA.
ST.
W.
G.
E.
T.
I.
TS.
PP.

CITY OF OAK CREEK - ENGINEERING DEPARTMENT

DESIGNED BY	DATE	DRAWN BY	DATE	CHECKED BY	DATE
A. LEDGER	05/24	M. JOHNSON	05/24	A. LEDGER	05/24

REMOVALS - STREET LIGHTING

IN: W. RAWSON AVENUE

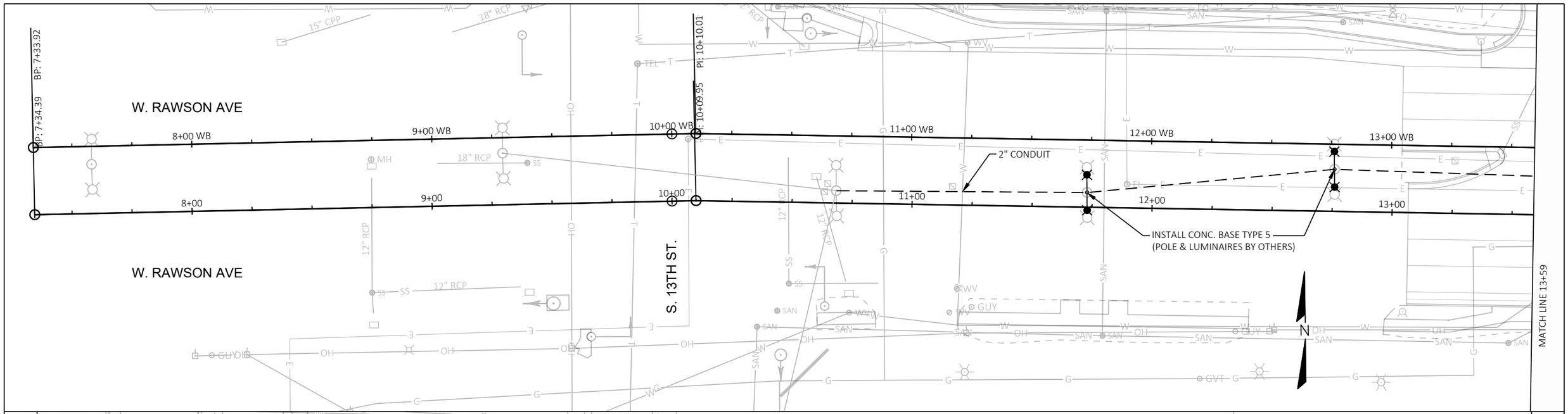
FROM: STA. 57+34

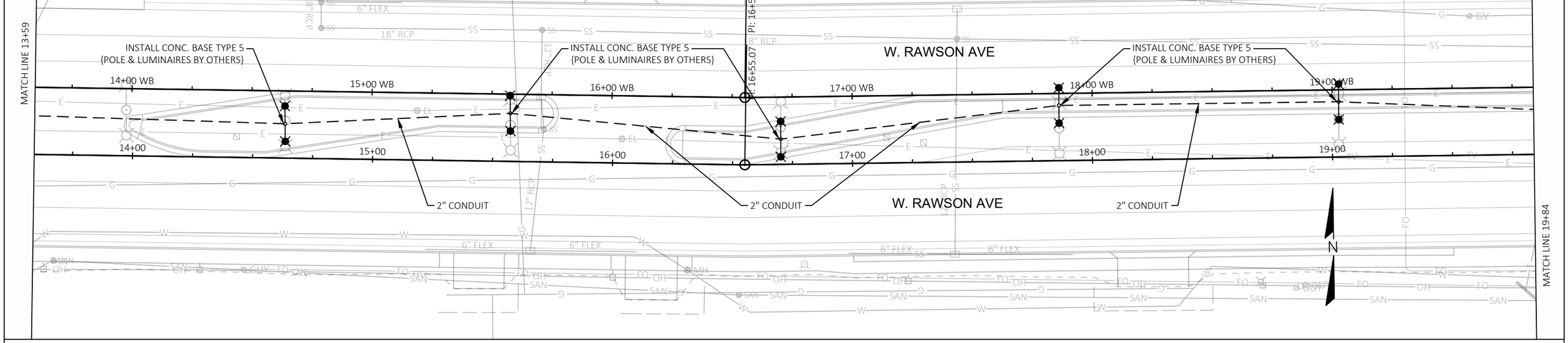
TO: STA. 65+85.21

APPROVED BY COUNCIL RESOLUTION NO. XXXXX-XXXXXXXX

SCALE	SHEET
PLAN HOR. 1" =40'	06
PROFILE HOR.	OF
VER.	11

FILE NO: XXXXX





LIGHTING PLAN LEGEND

PROPOSED	EXISTING	
⊠	⊠	DISTRIBUTION CENTER
◐	◐	PULL BOX- 24" UNLESS OTHERWISE NOTED)
- - - - - - -	- - - - - - -	CONDUIT- 2" UNLESS OTHERWISE NOTED)
-·-·-·-·-	-·-·-·-·-	CID (CABLE IN DUCT)
⊸●	⊸○	LOCAL MUNI. POLE
\\\\ OR X		REMOVAL/ABANDON

NOTE: EXISTING ELECTRICAL AND CONDUIT TO BE ABANDONED IN PLACE. CONTRACTOR MAY REMOVE ELECTRICAL WIRE AT NO COST TO THE CITY. ANY ELECTRICAL WIRE REMOVED WILL BE THE CONTRACTOR'S PROPERTY.

BAR SCALE

0 20 40 60

1" = 40'

SA.
ST.
W.
G.
E.
T.
I.
TS.
PP.

CITY OF OAK CREEK - ENGINEERING DEPARTMENT

DESIGNED BY	DATE	DRAWN BY	DATE	CHECKED BY	DATE
A. LEDGER	05/24	M. JOHNSON	05/24	A. LEDGER	05/24

PLAN VIEW - STREET LIGHTING

IN: W. RAWSON AVENUE

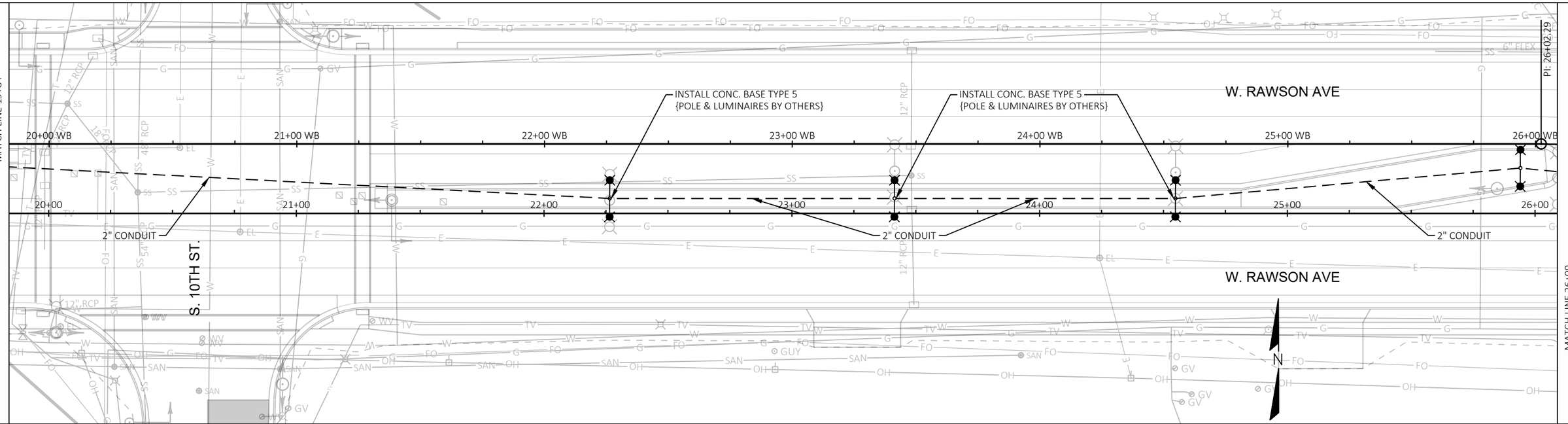
FROM: STA. 13+59

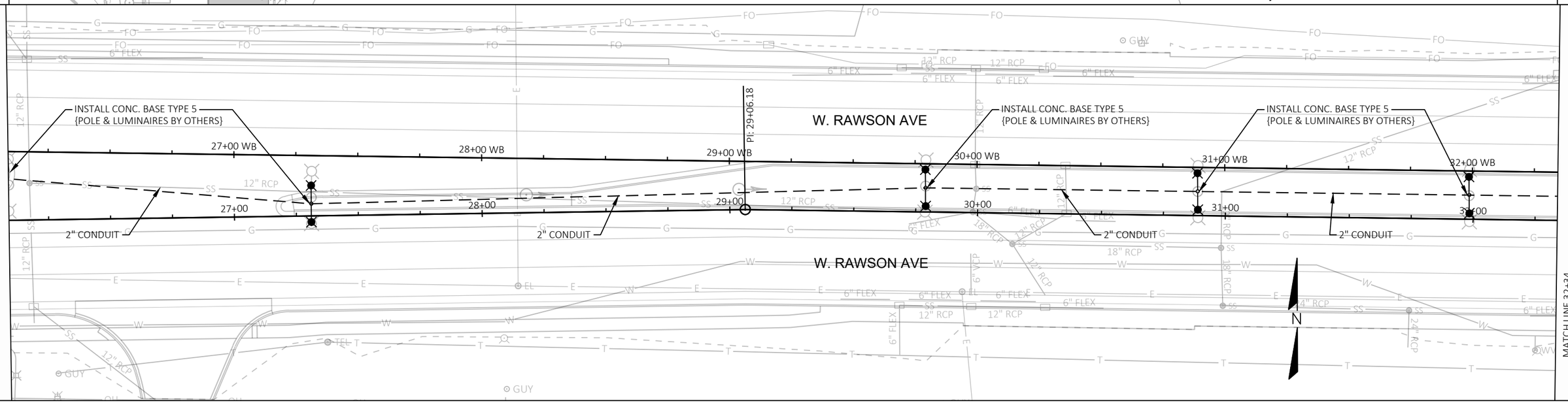
TO: STA. 19+84

APPROVED BY COUNCIL RESOLUTION NO. XXXXX-XXXXXXXX

SCALE	SHEET
PLAN HOR. 1" =40'	07
PROFILE HOR. ____	OF
VER. ____	11

FILE NO: XXXXX-XXXXXXX





LIGHTING PLAN LEGEND

PROPOSED	EXISTING	
⊠	⊠	DISTRIBUTION CENTER
◐	◐	PULL BOX- 24" UNLESS OTHERWISE NOTED)
- - - - - - -	- - - - - - -	CONDUIT- 2" UNLESS OTHERWISE NOTED)
-·-·-·-	-·-·-·-	CID (CABLE IN DUCT)
⊸	⊸	LOCAL MUNI. POLE
\\\\ OR X		REMOVAL/ABANDON

NOTE: EXISTING ELECTRICAL AND CONDUIT TO BE ABANDONED IN PLACE. CONTRACTOR MAY REMOVE ELECTRICAL WIRE AT NO COST TO THE CITY. ANY ELECTRICAL WIRE REMOVED WILL BE THE CONTRACTOR'S PROPERTY.

BAR SCALE

0 20 40 60

1" = 40'

SA.	
ST.	
W.	
G.	
E.	
T.	
I.	
TS.	
PP.	

CITY OF OAK CREEK - ENGINEERING DEPARTMENT

DESIGNED BY	DATE	DRAWN BY	DATE	CHECKED BY	DATE
A. LEDGER	05/24	M. JOHNSON	05/24	A. LEDGER	05/24

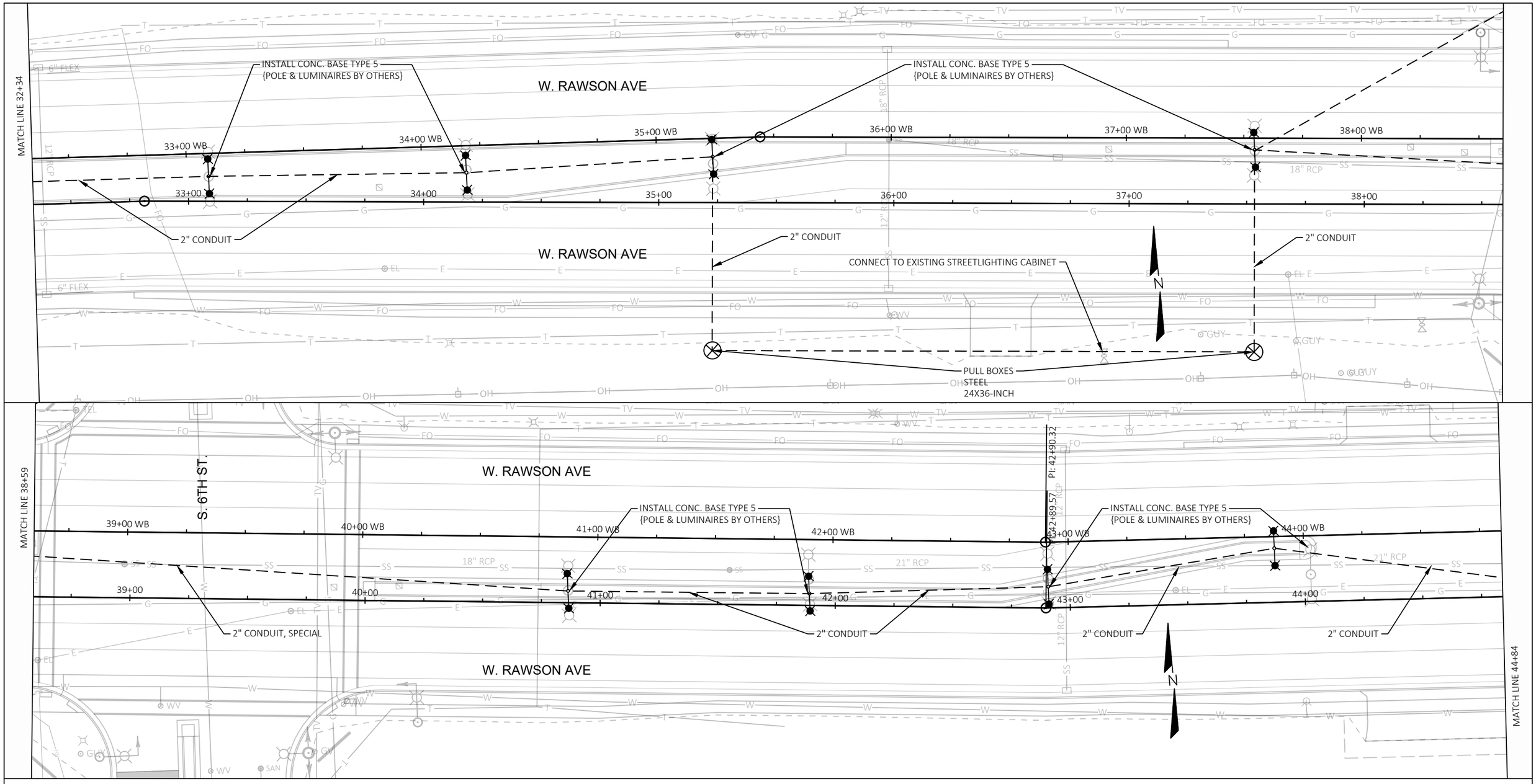
PLAN VIEW - STREET LIGHTING

IN: W. RAWSON AVENUE
FROM: STA. 19+84
TO: STA. 32+34

APPROVED BY COUNCIL RESOLUTION NO. XXXXX-XXXXXXXX

SCALE	SHEET
PLAN HOR. 1" =40'	08
PROFILE HOR.	OF
VER.	11

FILE NO: XXXXX



LIGHTING PLAN LEGEND

PROPOSED	EXISTING	
⊠	⊠	DISTRIBUTION CENTER
◐	◐	PULL BOX- 24" UNLESS OTHERWISE NOTED)
- - - - - - -	- - - - - - -	CONDUIT- 2" UNLESS OTHERWISE NOTED)
-·-·-·-	-·-·-·-	CID (CABLE IN DUCT)
⊸	⊸	LOCAL MUNI. POLE
\\\\ OR X		REMOVAL/ABANDON

NOTE: EXISTING ELECTRICAL AND CONDUIT TO BE ABANDONED IN PLACE. CONTRACTOR MAY REMOVE ELECTRICAL WIRE AT NO COST TO THE CITY. ANY ELECTRICAL WIRE REMOVED WILL BE THE CONTRACTOR'S PROPERTY.

BAR SCALE

0 20 40 60

1" = 40'

SA.	
ST.	
W.	
G.	
E.	
T.	
I.	
TS.	
PP.	

CITY OF OAK CREEK - ENGINEERING DEPARTMENT

DESIGNED BY	DATE	DRAWN BY	DATE	CHECKED BY	DATE
A. LEDGER	05/24	M. JOHNSON	05/24	A. LEDGER	05/24

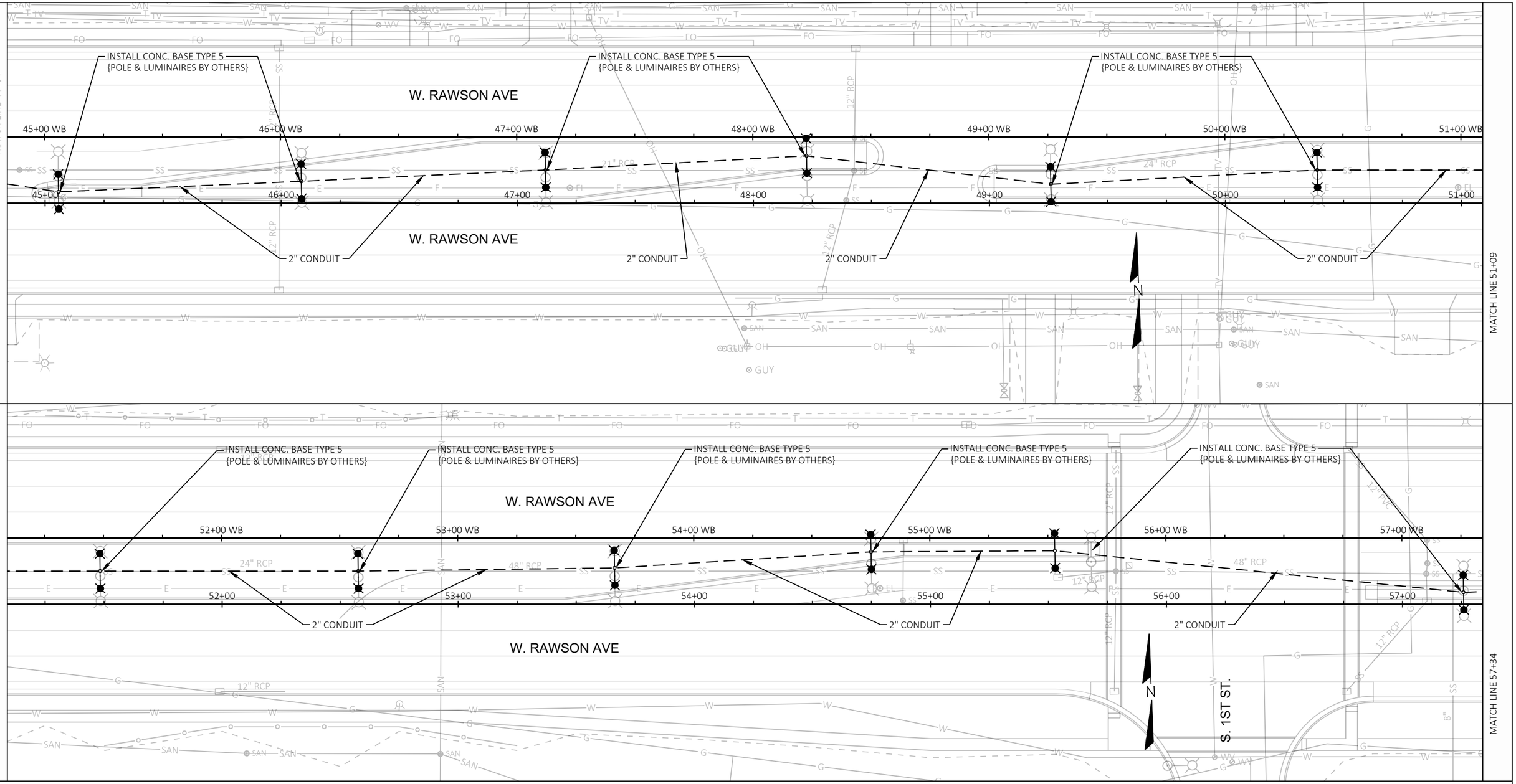
PLAN VIEW - STREET LIGHTING

IN: W. RAWSON AVENUE
FROM: STA. 32+34
TO: STA. 44+84

APPROVED BY COUNCIL RESOLUTION NO. XXXXX-XXXXXXXX

SCALE	SHEET
PLAN HOR. 1" =40'	09
PROFILE HOR.	OF
VER.	11

FILE NO: XXXXX



LIGHTING PLAN LEGEND

PROPOSED	EXISTING	
⊠	⊠	DISTRIBUTION CENTER
◐	◐	PULL BOX- 24" UNLESS OTHERWISE NOTED)
- - - - - - -	- - - - - - -	CONDUIT- 2" UNLESS OTHERWISE NOTED)
-·-·-·-·-	-·-·-·-·-	CID (CABLE IN DUCT)
⊸●	⊸○	LOCAL MUNI. POLE
\\\\ OR X		REMOVAL/ABANDON

NOTE: EXISTING ELECTRICAL AND CONDUIT TO BE ABANDONED IN PLACE. CONTRACTOR MAY REMOVE ELECTRICAL WIRE AT NO COST TO THE CITY. ANY ELECTRICAL WIRE REMOVED WILL BE THE CONTRACTOR'S PROPERTY.

BAR SCALE

0 20 40 60

1" = 40'

SA.	
ST.	
W.	
G.	
E.	
T.	
I.	
TS.	
PP.	

CITY OF OAK CREEK - ENGINEERING DEPARTMENT

DESIGNED BY	DATE	DRAWN BY	DATE	CHECKED BY	DATE
A. LEDGER	05/24	M. JOHNSON	05/24	A. LEDGER	05/24

PLAN VIEW - STREET LIGHTING

IN: W. RAWSON AVENUE

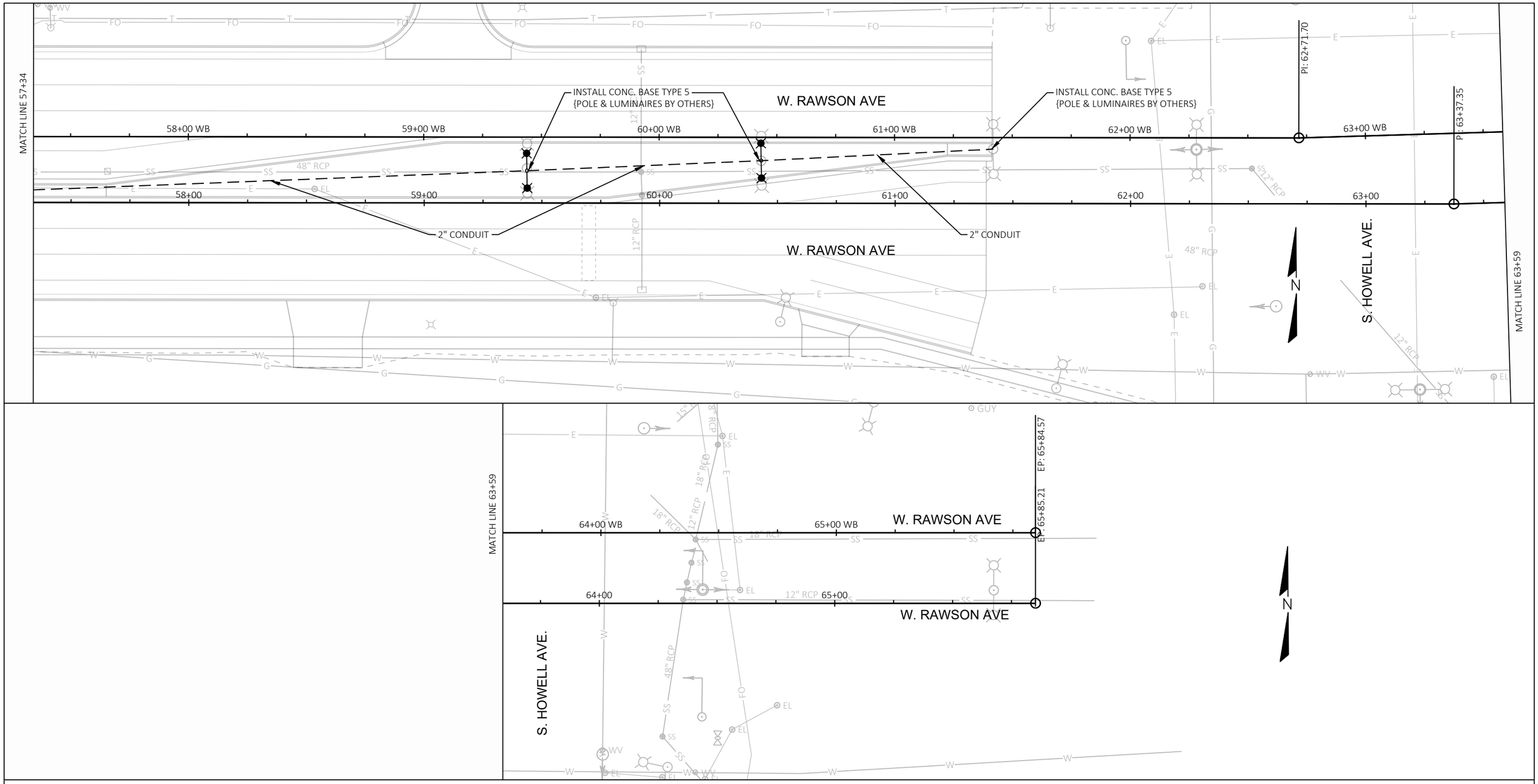
FROM: STA. 44+84

TO: STA. 57+34

APPROVED BY COUNCIL RESOLUTION NO. XXXXX-XXXXXXXX

SCALE	SHEET
PLAN HOR. 1" =40'	10
PROFILE HOR. ____	OF
VER. ____	11

FILE NO: XXXXX



LIGHTING PLAN LEGEND

PROPOSED	EXISTING	
⊠	⊠	DISTRIBUTION CENTER
◐	◐	PULL BOX- 24" UNLESS OTHERWISE NOTED)
- - - - - - -	- - - - - - -	CONDUIT- 2" UNLESS OTHERWISE NOTED)
-·-·-·-·-	-·-·-·-·-	CID (CABLE IN DUCT)
⊸●⊸	⊸○⊸	LOCAL MUNI. POLE
\\\\ OR X		REMOVAL/ABANDON

NOTE: EXISTING ELECTRICAL AND CONDUIT TO BE ABANDONED IN PLACE. CONTRACTOR MAY REMOVE ELECTRICAL WIRE AT NO COST TO THE CITY. ANY ELECTRICAL WIRE REMOVED WILL BE THE CONTRACTOR'S PROPERTY.

BAR SCALE

0 20 40 60

1" = 40'

SA.	
ST.	
W.	
G.	
E.	
T.	
I.	
TS.	
PP.	

CITY OF OAK CREEK - ENGINEERING DEPARTMENT

DESIGNED BY	DATE	DRAWN BY	DATE	CHECKED BY	DATE
A. LEDGER	05/24	M. JOHNSON	05/24	A. LEDGER	05/24

PLAN VIEW - STREET LIGHTING

IN: W. RAWSON AVENUE

FROM: STA. 57+34

TO: STA. 65+85.21

APPROVED BY COUNCIL RESOLUTION NO. XXXXX-XXXXXXXX

SCALE	SHEET
PLAN HOR. 1" =40'	11
PROFILE HOR.	OF
VER.	11

FILE NO: XXXXX

2

2

LEGEND

- TYPE III BARRICADE WITH TWO TYPE A LIGHTS (FLASHING)
- TYPE III BARRICADE WITH ATTACHED SIGN AND TWO TYPE A WARNING LIGHT (FLASHING)
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER POSTS, 15FT SPACING
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- FLASHING ARROW BOARD
- MB — PORTABLE CHANGEABLE MESSAGE SIGN (PCMS)
- WORK ZONE, LONG-TERM (SEE NOTE 1 BELOW)
- WORK ZONE, SHORT-TERM (SEE NOTE 2 BELOW)
- DIRECTION OF TRAFFIC
- TEMPORARY PEDESTRIAN SURFACE MATTING
- TEMPORARY PEDESTRIAN CURB RAMP
- TEMPORARY PEDESTRIAN DETECTABLE WARNING FIELD
- WT6 — TEMPORARY MARKING LINE REMOVABLE TAPE 6-INCH (WHITE)
- YT6 — TEMPORARY MARKING LINE REMOVABLE TAPE 6-INCH (YELLOW)
- 2YT6 — TEMPORARY MARKING LINE REMOVABLE TAPE 6-INCH (DOUBLE YELLOW)
- WTD6 — TEMPORARY MARKING LINE REMOVABLE TAPE 6-INCH (WHITE DASHES, 3FT LINE, 9FT GAP)
- YTD6 — TEMPORARY MARKING LINE REMOVABLE TAPE 6-INCH (YELLOW DASHES, 3FT LINE, 9FT GAP)
- WTD10 — TEMPORARY MARKING LINE REMOVABLE TAPE 10-INCH (WHITE DASHES, 3FT LINE, 9FT GAP)
- WT10 — TEMPORARY MARKING LINE REMOVABLE TAPE 10-INCH (WHITE)
- YTD — TEMPORARY MARKING DIAGONAL REMOVABLE TAPE 12-INCH (YELLOW, 45DEG, 25FT SPACING)
- ST18 — TEMPORARY MARKING STOP LINE REMOVABLE TAPE 18-INCH
- TEMPORARY MARKING ARROW REMOVABLE TAPE
- ONLY — TEMPORARY MARKING WORD REMOVABLE TAPE
- TEMPORARY PEDESTRIAN BARRICADE
- FLAGS 16" X 16" MIN. (ORANGE)

NOTES:
1. FOR LONG-TERM WORK ZONE TRAFFIC CONTROL, REFER TO THE TRAFFIC CONTROL PLANS FOR DEVICE PLACEMENT AND LAYOUTS.
2. FOR SHORT-TERM WORK ZONE TRAFFIC CONTROL, REFER TO SDD TRAFFIC CONTROL, INTERSECTION WITHIN SINGLE LANE CLOSURE FOR DEVICE PLACEMENT AND LAYOUTS. SHORT-TERM WORK ZONE LANE CLOSURES CAN BE COMPLETE BETWEEN THE HOURS OF 9AM-3PM.
3. REMOVE ANY CONFLICTING EXISTING PAVEMENT MARKING WHEN PLACING PAVEMENT MARKING TEMPORARY TAPE. RESTORE PAVEMENT MARKING TO EXISTING CONDITIONS ONCE TEMPORARY TRAFFIC CONTROL IS REMOVED.
4. ALL TEMPORARY PAVEMENT MARKING ARROWS OR WORDS SHOWN IN THE TRAFFIC CONTROL PLANS ARE TO BE REMOVABLE TAPE.
5. REMOVE OR COVER ANY SIGNS TEMPORARY OR EXISTING WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" AS NEEDED AND APPROVED BY THE ENGINEER.
6. FOR ALL WORK NEXT TO SIDEWALKS:
   -ALL WORK OPERATIONS MUST BE PROTECTED NEXT TO SIDEWALKS.
   -ALL DROP-OFFS MUST BE PROTECTED FROM SIDEWALKS.
   -ALL EQUIPMENT USED FOR PROTECTION MUST BE MUTCD, MASH, AND/OR NCHRP 350 COMPLIANT.
7. ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED.

PROJECT NO: 2050-08-71	HWY: BB	COUNTY: MILWAUKEE	TRAFFIC CONTROL - LEGEND	SHEET 130	E

2

2

7+50.00

N

IH-41 / IH-94 SB OFF RAMP

IH-41 / IH-94

ROAD WORK AHEAD
W20-1A

END ROAD WORK
G20-2A
48"X24"

PGL W RAWSON AVE WB

R/L W RAWSON AVE

W. RAWSON AVE (CTH BB)

320'

25'

YT6

14' 12' 12'

LANE CLOSED
R11-2L
48"X30"

BEGIN LEFT TURN LANE
R3-20L
24"X36"

ROAD WORK AHEAD
W20-1A

LEFT LANE CLOSED AHEAD
W20-5SA

W04-2L

ROAD WORK AHEAD
W20-1A

IH-41 / IH-94 NB OFF RAMP

PROJECT NO: 2050-08-71	HWY: BB	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 1	SHEET 131	E

FILE NAME : O:\HIGHWAY OPERATIONS CONTROL FILE\CENTRAL FILES\2010-2014\CTH BB - W. RAWSON AVE\2050-08-01 S 13TH ST TO W HOWELL AVE\DESIGN\PLANS\20500801_TC PRE STAGE1_PLAN.DWG
LAYOUT NAME - 01

PLOT DATE : 10/15/2024 11:21 AM PLOT BY : THORNBURG, ALEX PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

BEGIN CONSTRUCTION
STA 9+47.00

BEGIN PROJECT 2050-08-71
STA 13+06.72

CONSTRUCT TEMPORARY PAVEMENT
SEE DETAIL A FOR
TYPICAL FINISHED SECTION CROSS-OVERS

PGL W RAWSON AVE WB

W. RAWSON AVE (CTH BB)

R/L W RAWSON AVE

S. 13TH STREET (CTH V)

S. 10TH STREET

22+75.00

7+50.00

ROAD WORK AHEAD W20-1A

END ROAD WORK G20-2A 48"X24"

BEGIN LEFT TURN LANE R3-20L 24"X36"

ONE WAY R6-2R 24"X30"

ROAD CLOSED R11-2 48"X30"

LANE CLOSED R11-2L 48"X30"

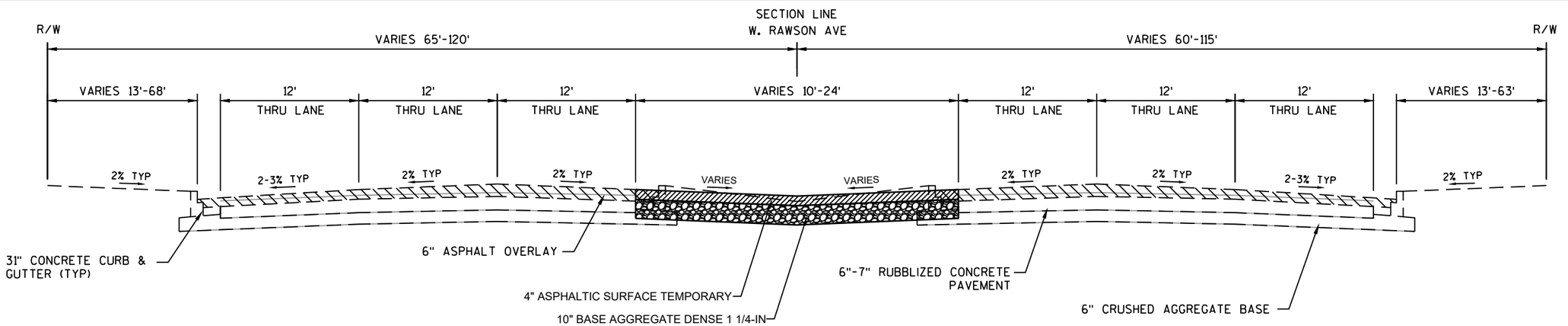
WO1-6 48"X24"

R3-2 24"X24"

WT10

CONSTRUCT TEMPORARY PAVEMENT

DETAIL A



TYPICAL FINISHED SECTION
CROSS-OVERS
STA 11+10 TO STA 15+83
STA 56+68 TO STA 61+92

PROJECT NO: 2050-08-71	HWY: BB	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 1	SHEET 132	E

FILE NAME : O:\HIGHWAY OPERATIONS CONTROL FILE\CENTRAL FILES\2010-2014\CTH BB - W. RAWSON AVE\2050-08-01 S 13TH ST TO W HOWELL AVE\DESIGN\PLANS\20500801_TC PRE STAGE1_PLAN.DWG
LAYOUT NAME - 02
PLOT DATE : 10/15/2024 11:22 AM PLOT BY : THORNBURG, ALEX PLOT NAME : PLOT SCALE : 1 IN:100 FT

2

2

N

34+50.00

W. RAWSON AVE (CTH BB)

YT6

320'

25'

W04-2L

B-40-385
(EXISTING)

LEFT LANE
CLOSED
AHEAD

W20-5SA

30WB

RIGHT LANE
CLOSED
AHEAD

W20-5A

W04-2R

R/L W RAWSON AVE

PGL W RAWSON AVE WB

CANADIAN PACIFIC RAILWAY

22+75.00

PROJECT NO: 2050-08-71	HWY: BB	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 1	SHEET 133	E

FILE NAME : O:\HIGHWAY OPERATIONS CONTROL FILE\CENTRAL FILES\2010-2014\CTH BB - W. RAWSON AVE\2050-08-01 S 13TH ST TO W HOWELL AVE\DESIGN\PLANS\20500801_TC PRE STAGE1_PLAN.DWG
LAYOUT NAME - 03

PLOT DATE : 10/15/2024 11:22 AM PLOT BY : THORNBURG, ALEX PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

OAK CREEK
FIRE DEPT.

OAK CREEK
VETERANS
MEMORIAL
PARK

N

48+00.00

ROAD
WORK
AHEAD
W20-1A

END
ROAD WORK
G20-2A
48"X24"

LANE
CLOSED
R11-2L
48"X30"

LANE
CLOSED
R11-2L
48"X30"

25'

320'

25'

320'

25'

W. RAWSON AVE (CTH BB)

35WB

40WB

45WB

W20-5R

LANE
CLOSED
R11-2L
48"X30"

LANE
CLOSED
R11-2L
48"X30"

LEFT LANE
CLOSED
AHEAD
W20-5SA

W20-5L

INSTALL TEMPORARY TRAFFIC SIGNALS

S. 6TH STREET

END
ROAD WORK
G20-2A
48"X24"

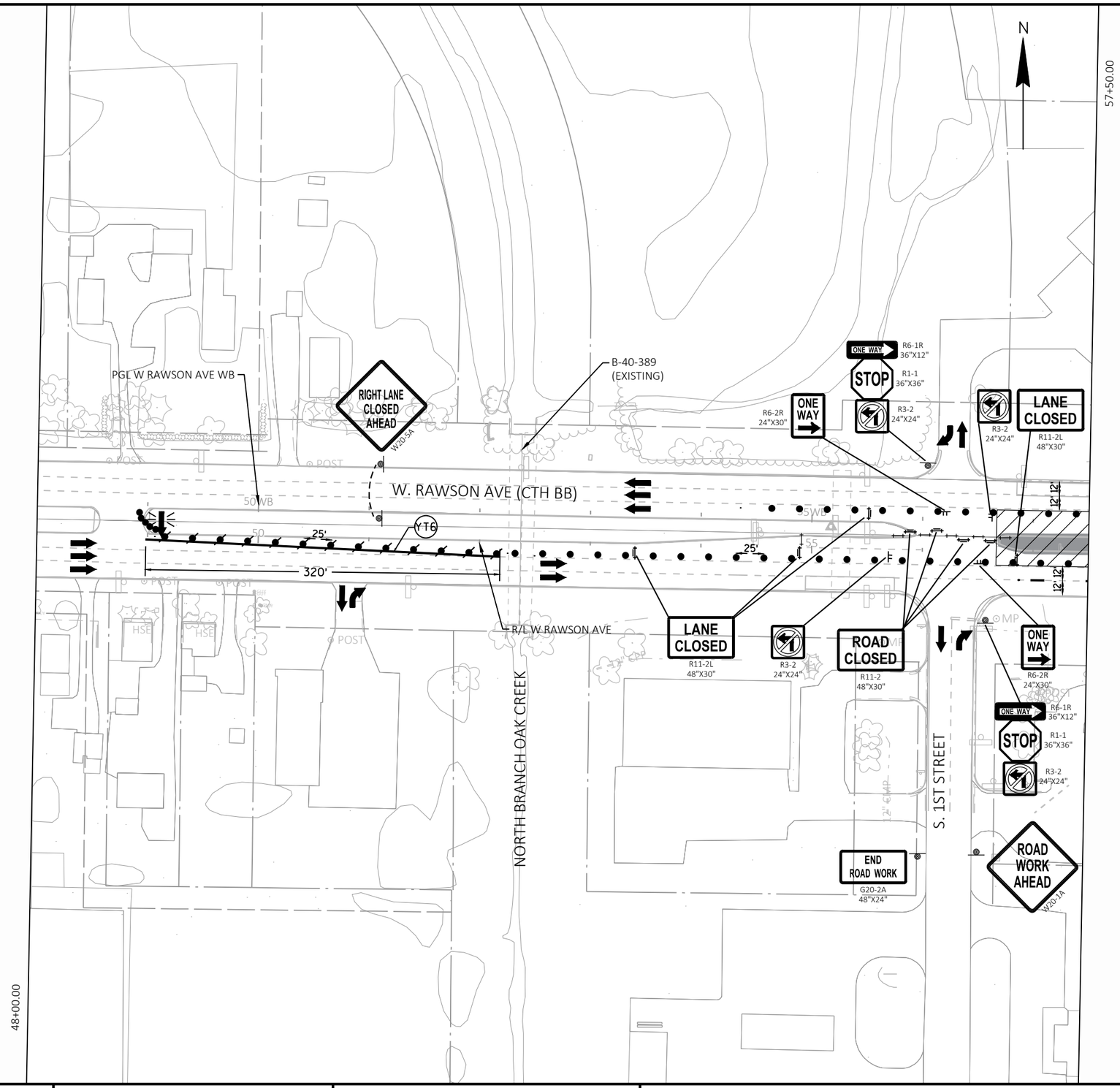
ROAD
WORK
AHEAD
W20-1A

34+50.00

PROJECT NO: 2050-08-71	HWY: BB	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 1	SHEET 134	E

FILE NAME : O:\HIGHWAY OPERATIONS CONTROL FILE\CENTRAL FILES\2010-2014\CTH BB - W. RAWSON AVE\2050-08-01 S 13TH ST TO W HOWELL AVE\DESIGN\PLANS\20500801_TC PRE STAGE1_PLAN.DWG
LAYOUT NAME - 04
PLOT DATE : 10/15/2024 11:22 AM PLOT BY : THORNBURG, ALEX PLOT NAME : PLOT SCALE : 1 IN:100 FT

2



PROJECT NO: 2050-08-71	HWY: BB	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 1	SHEET 135	E

FILE NAME : O:\HIGHWAY OPERATIONS CONTROL FILE\CENTRAL FILES\2010-2014\CTH BB - W. RAWSON AVE\2050-08-01 S 13TH ST TO W HOWELL AVE\DESIGN\PLANS\20500801_TC PRE STAGE1_PLAN.DWG
LAYOUT NAME - 05
PLOT DATE : 10/15/2024 11:23 AM PLOT BY : THORNBURG, ALEX PLOT NAME : PLOT SCALE : 1 IN:100 FT

2

2

ROAD WORK AHEAD
W20-1A

150'

END ROAD WORK
G20-2A
48"X24"

N

ONE WAY
R6-2R
24"X30"

ADJUST INLET
SEE STORM SEWER PLANS

LANE CLOSED
R11-2L
48"X30"

BEGIN LEFT TURN LANE
R3-20L
24"X36"

WO1-6
48"X24"

PGL W RAWSON AVE WB

W. RAWSON AVE (CTH BB)

25'
12'
15'
16'
WT10
WTD6
WTS6

E. RAWSON AVE (CTH BB)

WTD10
WT10
YT6
WT6
20'
130'
MATCH INTO EXISTING TAPER

WO1-6BL

R/L W RAWSON AVE

CONSTRUCT TEMPORARY PAVEMENT
SEE DETAIL A FOR
TYPICAL FINISHED SECTION CROSS-OVERS

END PROJECT 2050-08-71
STA 61+38.66

END CONSTRUCTION
STA 62+51.26

S. HOWELL AVENUE (STH 38)

57+50.00

MATCHLINE A-A

END ROAD WORK
G20-2A
48"X24"

350'

ROAD WORK AHEAD
W20-1A

PROJECT NO: 2050-08-71	HWY: BB	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 1	SHEET 136	E

FILE NAME : O:\HIGHWAY OPERATIONS CONTROL FILE\CENTRAL FILES\2010-2014\CTH BB - W. RAWSON AVE\2050-08-01 S 13TH ST TO W HOWELL AVE\DESIGN\PLANS\20500801_TC PRE STAGE1_PLAN.DWG
LAYOUT NAME - 06
PLOT DATE : 10/15/2024 11:23 AM PLOT BY : THORNBURG, ALEX PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

2

N

MATCHLINE A-A

E. RAWSON AVE (CTH BB)

MATCH INTO EXISTING TAPER

WT6

YT6

160'

350'

350'

25'

12'

12'

12'

12'

ROAD WORK AHEAD

W20-1A

WO1-4BR
48"X48"

LANE CLOSED

R11-2L
48"X30"

WO1-6
48"X24"

END ROAD WORK

G20-2A
48"X24"

PROJECT NO: 2050-08-71	HWY: BB	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 1	SHEET 137	E

FILE NAME : O:\HIGHWAY OPERATIONS CONTROL FILE\CENTRAL FILES\2010-2014\CTH BB - W. RAWSON AVE\2050-08-01 S 13TH ST TO W HOWELL AVE\DESIGN\PLANS\20500801_TC PRE STAGE1_PLAN.DWG
LAYOUT NAME - 07

PLOT DATE : 10/15/2024 11:24 AM PLOT BY : THORNBURG, ALEX PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

2

N

7+50.00

IH-41 / IH-94 SB OFF RAMP

ROAD WORK AHEAD
W20-1A

IH-41 / IH-94

END ROAD WORK
G20-2A
48"X24"

PGL W RAWSON AVE WB

R/L W RAWSON AVE

W. RAWSON AVE (CTH BB)

12' 12' 16'

25'

25'

WTG

320'

LANE CLOSED
R11-2L
48"X30"

400'

ROAD WORK AHEAD
W20-1A

SPEED LIMIT 30
W03-5

RIGHT LANE CLOSED AHEAD
W20-5A

SPEED LIMIT 30
R2-1
24"X30"

W04-2R

ROAD WORK AHEAD
W20-1A

IH-41 / IH-94 NB OFF RAMP

PROJECT NO: 2050-08-71	HWY: BB	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 2	SHEET 138	E

2

2

ROAD WORK AHEAD W20-1A
200'
310'
20'
R3-7R 30"X30"
RIGHT LANE MUST TURN RIGHT
ONLY
R3-8R 30"X18" COVER EXISTING SIGN
BEGIN CONSTRUCTION STA 9+47.00
32'
20'
WO1-4BL
R3-7R 30"X30"
RIGHT LANE MUST TURN RIGHT
WT10
END ROAD WORK G20-2A 48"X24"
BEGIN PROJECT 2050-08-71 STA 13+06.72
WO6-3
ONE WAY R6-1R 36"X12"
R3-2 24"X24"
W6-4 12"X18"
+75.00 28'LT
PGL W RAWSON AVE WB
SPEED LIMIT 30 R2-1 24"X30"
LEFT LANE CLOSED AHEAD W20-5SA
ROAD CLOSED AHEAD W20-3A
ROAD CLOSED 500 FT W20-3D
300'
500'
ROAD CLOSED R11-2 48"X30"
ROAD CLOSED R11-2 48"X30"
R3-1 24"X24"
WO4-2L
WT6
R3-2 24"X24"
WT6
YT6
2YT6
WTD6
10WB
15WB
20WB
W. RAWSON AVE (CTH BB)
16'
12' 12'
15'
17'
12 12
24'
25'
N
22+75.00
BEGIN RIGHT TURN LANE R3-20R 24"X36"
WO12-1D 24"X24"
LANE CLOSED R11-2L 48"X30"
SEE DETAIL B FOR PEDESTRIAN BARRICADE LAYOUT TO BE IN PLACE FOR SHORT-TERM WORK IN ISLAND
S. 13TH STREET (CTH V)
WO1-4BL
30 MPH WO13-1 36"X36"
ROAD WORK AHEAD W20-1A
END ROAD WORK G20-2A 48"X24"
+18.50 24'RT
LANE CLOSED R11-2L 48"X30"
WO1-6 48"X24"
ROAD CLOSED R11-2 48"X30"
LANE CLOSED R11-2L 48"X30"
ROAD CLOSED R11-2 48"X30"
R3-2 24"X24"
ROAD CLOSED R11-2 48"X30"
R/L W RAWSON AVE
LANE CLOSED R11-2L 48"X30"
ROAD CLOSED TO THRU TRAFFIC R11-4 60"X30"
500'
500'
800'
S. 10TH STREET
ROAD CLOSED 500 FT W20-3D
ROAD CLOSED 1000 FT W20-3C
ROAD CLOSED AHEAD W20-3A
7+50.00

DETAIL B

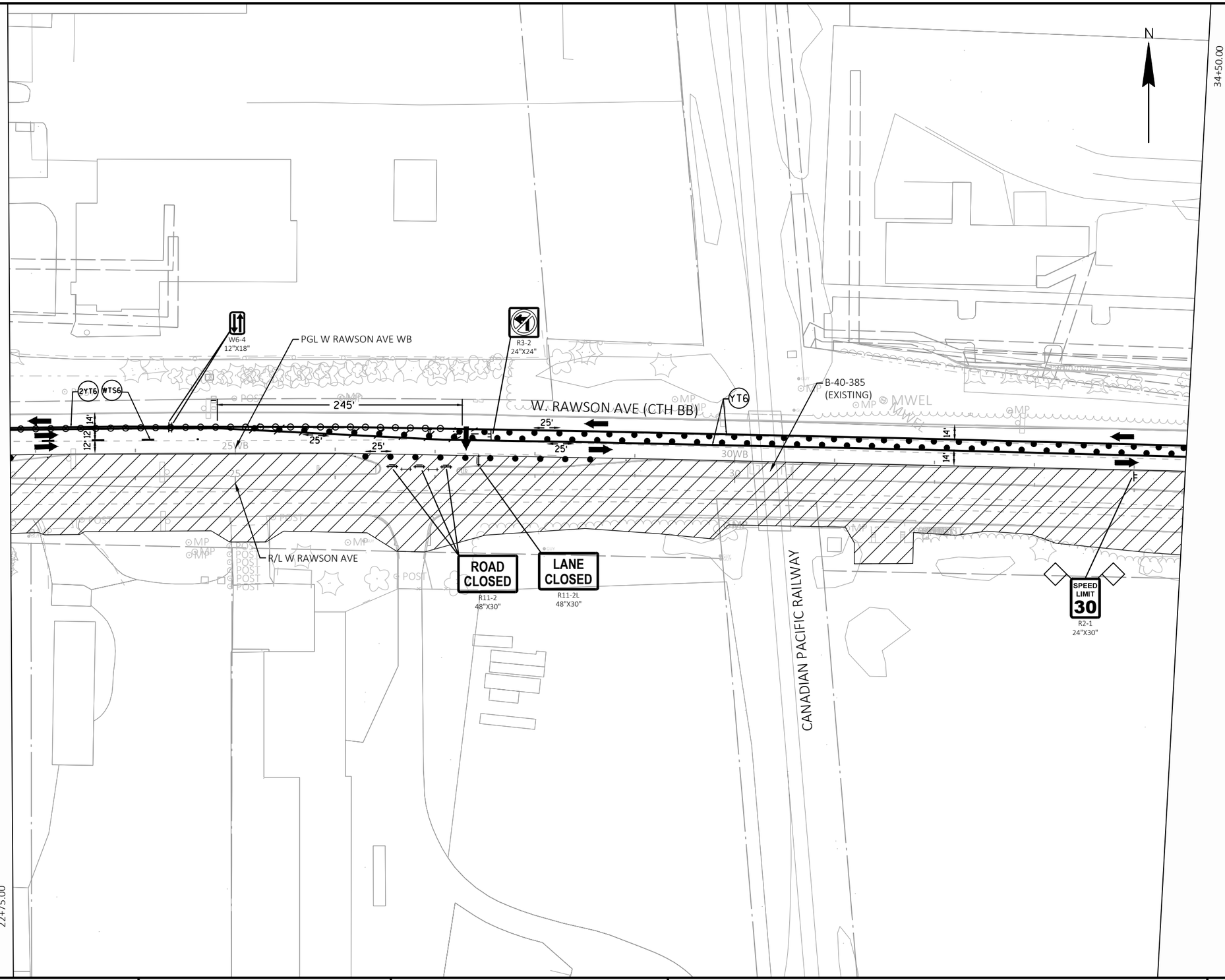
W. RAWSON AVE (CTH BB)
5'
5'
5'
4'
6'
TEMPORARY PEDESTRIAN BARRICADE
WT6
M4-60R 30"X24"
S. 13TH STREET (CTH V)

PROJECT NO: 2050-08-71	HWY: BB	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 2	SHEET 139	E

FILE NAME : O:\HIGHWAY OPERATIONS CONTROL FILE\CENTRAL FILES\2010-2014\CTH BB - W. RAWSON AVE\2050-08-01 S 13TH ST TO W HOWELL AVE\DESIGN\PLANS\20500801_TC STAGE1_PLAN.DWG PLOT DATE : 10/30/2024 1:36 PM PLOT BY : THORNBURG, ALEX PLOT NAME : PLOT SCALE : 1 IN:100 FT
LAYOUT NAME - 02

WISDOT/CADDS SHEET 42

2



PROJECT NO: 2050-08-71	HWY: BB	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 2	SHEET 140	E

FILE NAME : O:\HIGHWAY OPERATIONS CONTROL FILE\CENTRAL FILES\2010-2014\CTH BB - W. RAWSON AVE\2050-08-01 S 13TH ST TO W HOWELL AVE\DESIGN\PLANS\20500801_TC STAGE1_PLAN.DWG
LAYOUT NAME - 03
PLOT DATE : 10/15/2024 11:36 AM PLOT BY : THORNBURG, ALEX PLOT NAME : PLOT SCALE : 1 IN:100 FT

2

N

48+00.00

MATCHLINE B-B

OAK CREEK VETERANS MEMORIAL PARK

W. RAWSON AVE (CTH BB)

S. 6TH STREET

LEAVE A GAP IN THE DRUMS TO ACCOMMODATE ENTERING/EXITING TRUCKS AT DRIVEWAYS

LANE CLOSED
R11-2L
48"X30"

LANE CLOSED
R11-2L
48"X30"

BEGIN LEFT TURN LANE
R3-20L
24"X36"

SPEED LIMIT 30
R2-1
24"X30"

STOP HERE ON RED
R10-6
24"X36"

NO TURN ON RED
R10-11B
24"X24"

W6-4
12"X18"

R4-7
24"X30"

STOP HERE ON RED
R10-6
24"X36"

NO TURN ON RED
R10-11B
24"X24"

R3-2
24"X24"

ONE WAY
R6-1R
36"X12"

R3-2
24"X24"

YT6

WT10

2YT6

ST18

WTD6

YTD6

YTD

ONE WAY
R6-2R
24"X30"

STOP HERE ON RED
R10-6
24"X36"

NO TURN ON RED
R10-11B
24"X24"

ROAD CLOSED
R11-2
48"X30"

WO1-6
48"X24"

LANE CLOSED
R11-2L
48"X30"

ROAD CLOSED
R11-2
48"X30"

SPEED LIMIT 30
R2-1
24"X30"

ROAD CLOSED
R11-2
48"X30"

ROAD CLOSED
R11-2
48"X30"

LANE CLOSED
R11-2L
48"X30"

W6-4
12"X18"

STOP HERE ON RED
R10-6
24"X36"

NO TURN ON RED
R10-11B
24"X24"

WO1-7
48"X24"

ROAD CLOSED
R11-2
48"X30"

W6-4
12"X18"

WO1-4R

MATCHLINE C-C

34+50.00

PROJECT NO: 2050-08-71	HWY: BB	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 2-A	SHEET 141	E

FILE NAME : O:\HIGHWAY OPERATIONS CONTROL FILE\CENTRAL FILES\2010-2014\CTH BB - W. RAWSON AVE\2050-08-01 S 13TH ST TO W HOWELL AVE\DESIGN\PLANS\20500801_TC STAGE1_PLAN.DWG
LAYOUT NAME - 04A
PLOT DATE : 10/15/2024 11:36 AM
PLOT BY : THORNBURG, ALEX
PLOT NAME :
PLOT SCALE : 1 IN:100 FT

2

N

48+00.00

34+50.00

MATCHLINE D-D

MATCHLINE E-E

75' TAPER

OAK CREEK VETERANS MEMORIAL PARK

W. RAWSON AVE (CTH BB)

S. 6TH STREET

LEAVE A GAP IN THE DRUMS TO ACCOMMODATE ENTERING/EXITING TRUCKS AT DRIVEWAYS

ROAD CLOSED
R11-2
48"X30"

LANE CLOSED
R11-2L
48"X30"

BEGIN LEFT TURN LANE
R3-20L
24"X36"

SPEED LIMIT 30
R2-1
24"X30"

25 MPH
WO13-1
36"X36"

WO1-4R

STOP HERE ON RED
R10-6
24"X36"

NO TURN ON RED
R10-11B
24"X24"

W6-4
12"X18"

ONE WAY
R6-1R
36"X12"

R3-2
24"X24"

ONE WAY
R6-2R
24"X30"

YT6

2YT6

WT10

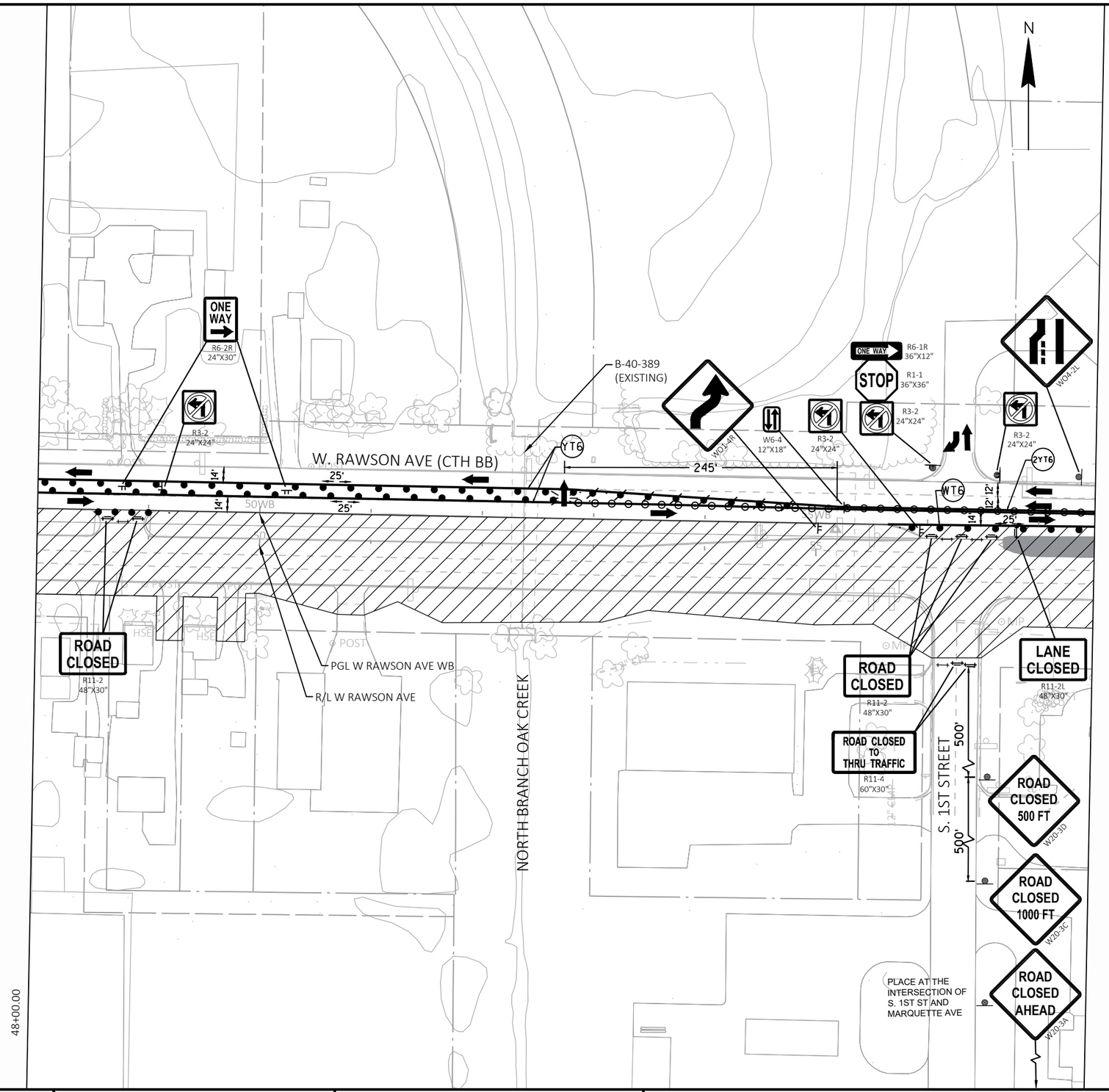
ST18

YTD

PROJECT NO: 2050-08-71	HWY: BB	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 2-B	SHEET 142	E

FILE NAME : O:\HIGHWAY OPERATIONS CONTROL FILE\CENTRAL FILES\2010-2014\CTH BB - W. RAWSON AVE\2050-08-01 S 13TH ST TO W HOWELL AVE\DESIGN\PLANS\20500801_TC STAGE1_PLAN.DWG
LAYOUT NAME - 04B
PLOT DATE : 10/16/2024 7:42 AM
PLOT BY : THORNBURG, ALEX
PLOT NAME :
PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 42

2



PROJECT NO: 2050-08-71	HWY: BB	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 2	SHEET 143	E

FILE NAME : O:\HIGHWAY OPERATIONS CONTROL FILE\CENTRAL FILES\2010-2014\CTH BB - W. RAWSON AVE\2050-08-01 S 13TH ST TO W HOWELL AVE\DESIGN\PLANS\20500801_TC STAGE1_PLAN.DWG
LAYOUT NAME - 05
PLOT DATE : 10/15/2024 11:36 AM
PLOT BY : THORNBURG, ALEX
PLOT NAME :
PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 42

2

2

ROAD WORK AHEAD
W20-1A

150'

END ROAD WORK
G20-2A
48"X24"

LEFT LANE CLOSED AHEAD
W20-5A

LANE CLOSED
R11-2L
48"X30"

W6-4
12"X18"

ONE WAY
R6-1R
36"X12"

R3-2
24"X24"

SPEED LIMIT 30
R2-1
24"X30"

WTDIC

WO1-6
48"X24"

YT6

W. RAWSON AVE (CTH BB)

+80.00
28' LT

WT10

+45.00
8' RT

ROAD CLOSED
R11-2
48"X30"

ONE WAY
R6-2R
24"X30"

WO1-6
48"X24"

BEGIN LEFT TURN LANE
R3-20L
24"X36"

WT6

LANE CLOSED
R11-2L
48"X30"

END CONSTRUCTION
STA 62+51.26

END PROJECT 2050-08-71
STA 61+38.66

57+50.00

S. HOWELL AVENUE (STH 38)

LANE CLOSED
R11-2L
48"X30"

BEGIN LEFT TURN LANE
R3-20L
24"X36"

END ROAD WORK
G20-2A
48"X24"

350'

ROAD WORK AHEAD
W20-1A

LANE CLOSED
R11-2L
48"X30"

BEGIN LEFT TURN LANE
R3-20L
24"X36"

LANE CLOSED
R11-2L
48"X30"

E. RAWSON AVE (CTH BB)

PGL W RAWSON AVE WB

R/L W RAWSON AVE

MATCHLINE A-A

N

PROJECT NO: 2050-08-71	HWY: BB	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 2	SHEET 144	E

FILE NAME : O:\HIGHWAY OPERATIONS CONTROL FILE\CENTRAL FILES\2010-2014\CTH BB - W. RAWSON AVE\2050-08-01 S 13TH ST TO W HOWELL AVE\DESIGN\PLANS\20500801_TC STAGE1_PLAN.DWG PLOT DATE : 10/15/2024 11:37 AM PLOT BY : THORNBURG, ALEX PLOT NAME : PLOT SCALE : 1 IN:100 FT
LAYOUT NAME - 06

WISDOT/CADDS SHEET 42

2

2

N

MATCHLINE A-A

E. RAWSON AVE (CTH BB)

SPEED LIMIT 30
R2-1
24"X30"

WT6

160'

350' 350' 350' 350'

25'

12' 12' 12' 12' 12'

YT6

LANE CLOSED
R11-2L
48"X30"

WO1-6
48"X24"

END ROAD WORK
G20-2A
48"X24"

WO1-4BR

SPEED LIMIT 30
R2-1
24"X30"

SPEED LIMIT 30
WO3-5

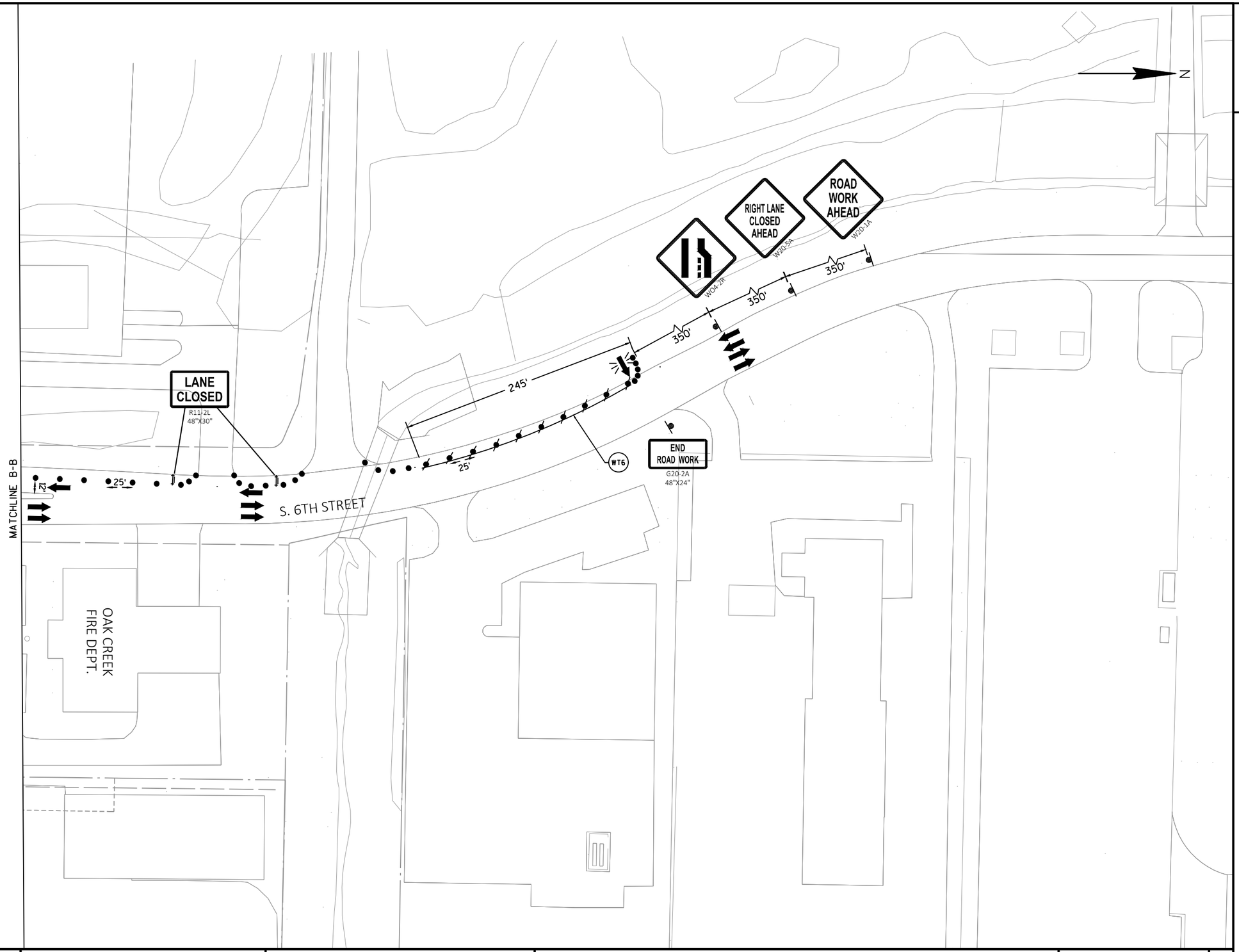
ROAD WORK AHEAD
W20-1A

PROJECT NO: 2050-08-71	HWY: BB	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 2	SHEET 145	E

FILE NAME : O:\HIGHWAY OPERATIONS CONTROL FILE\CENTRAL FILES\2010-2014\CTH BB - W. RAWSON AVE\2050-08-01 S 13TH ST TO W HOWELL AVE\DESIGN\PLANS\20500801_TC STAGE1_PLAN.DWG PLOT DATE : 10/15/2024 11:37 AM PLOT BY : THORNBURG, ALEX PLOT NAME : PLOT SCALE : 1 IN:100 FT
LAYOUT NAME - 07

WISDOT/CADDS SHEET 42

2



PROJECT NO: 2050-08-71	HWY: BB	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 2-A	SHEET 146	E

FILE NAME : O:\HIGHWAY OPERATIONS CONTROL FILE\CENTRAL FILES\2010-2014\CTH BB - W. RAWSON AVE\2050-08-01 S 13TH ST TO W HOWELL AVE\DESIGN\PLANS\20500801_TC STAGE1_PLAN.DWG PLOT DATE : 10/15/2024 11:38 AM PLOT BY : THORNBURG, ALEX PLOT NAME : PLOT SCALE : 1 IN:100 FT
LAYOUT NAME - 08A

2

2

N

LEAVE A GAP IN THE DRUMS TO ACCOMMODATE ENTERING/EXITING EMERGENCY VEHICLES AT FIRE DEPT. DRIVEWAY

W01-6
48"X24"

YT6

25'

12'

15'

12'

S. 6TH STREET

75' TAPER

LANE CLOSED
R11-2L
48"X30"

OAK CREEK FIRE DEPT.

MATCHLINE D-D

245'

350'

350'

350'

W04-2L

LEFT LANE CLOSED AHEAD
W20-5A

ROAD WORK AHEAD
W20-1A

END ROAD WORK
G20-2A
48"X24"

PROJECT NO: 2050-08-71	HWY: BB	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 2-B	SHEET 147	E

FILE NAME : O:\HIGHWAY OPERATIONS CONTROL FILE\CENTRAL FILES\2010-2014\CTH BB - W. RAWSON AVE\2050-08-01 S 13TH ST TO W HOWELL AVE\DESIGN\PLANS\20500801_TC STAGE1_PLAN.DWG
LAYOUT NAME - 08B
PLOT DATE : 10/16/2024 7:42 AM PLOT BY : THORNBURG, ALEX PLOT NAME : PLOT SCALE : 1 IN:100 FT

2

N

END ROAD WORK
G20-2A
48"X24"

S. 6TH STREET

12'-12'

14'

25'

YT6

350'

350'

350'

235'

ROAD WORK AHEAD
W20-1A

LEFT LANE CLOSED AHEAD
W20-5SA

W04-2L

BURKHARD COURT

LANE CLOSED
R11-2L
48"X30"

12'

14'

25'

25'

YT6

ROAD CLOSED
R11-2
48"X30"

160'

14'

14'

WO1-6
48"X24"

MATCHLINE C-C

W06-3

PROJECT NO: 2050-08-71	HWY: BB	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 2-A	SHEET 148	E

FILE NAME : O:\HIGHWAY OPERATIONS CONTROL FILE\CENTRAL FILES\2010-2014\CTH BB - W. RAWSON AVE\2050-08-01 S 13TH ST TO W HOWELL AVE\DESIGN\PLANS\20500801_TC STAGE1_PLAN.DWG
LAYOUT NAME - 09A

PLOT DATE : 10/16/2024 7:58 AM PLOT BY : THORNBURG, ALEX PLOT NAME : PLOT SCALE : 1 IN:100 FT

2

N

END ROAD WORK
G20-2A
48"X24"

S. 6TH STREET

12' 12' 14'

25'

WT6

350' 350' 350' 235'

ROAD WORK AHEAD
W20-1A

RIGHT LANE CLOSED AHEAD
W20-5R

W4-2R

BURKHARD COURT

LANE CLOSED
R11-2L
48"X30"

W1-4L

25'

12' 12' 14'

W06-3

YT6

WT6

110' TAPER

ROAD CLOSED
R11-2
48"X30"

W01-6
48"X24"

MATCHLINE E-E

PROJECT NO: 2050-08-71	HWY: BB	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 2-B	SHEET 149	E

FILE NAME : O:\HIGHWAY OPERATIONS CONTROL FILE\CENTRAL FILES\2010-2014\CTH BB - W. RAWSON AVE\2050-08-01 S 13TH ST TO W HOWELL AVE\DESIGN\PLANS\20500801_TC STAGE1_PLAN.DWG
LAYOUT NAME - 09B

PLOT DATE : 10/16/2024 7:43 AM PLOT BY : THORNBURG, ALEX PLOT NAME : PLOT SCALE : 1 IN:100 FT

2

2

N

7+50.00

IH-41 / IH-94 SB OFF RAMP

IH-41 / IH-94

ROAD WORK AHEAD
W20-1A

END ROAD WORK
G20-2A
48"X24"

PGL W RAWSON AVE WB

R/L W RAWSON AVE

W. RAWSON AVE (CTH BB)

320'

25'

YT6

14' 12' 12'

LANE CLOSED
R11-2L
48"X30"

BEGIN LEFT TURN LANE
R3-20L
24"X36"

SPEED LIMIT 30
R2-1
24"X30"

400'

ROAD WORK AHEAD
W20-1A

SPEED LIMIT 30
W03-5

LEFT LANE CLOSED AHEAD
W20-5SA

W04-2L

ROAD WORK AHEAD
W20-1A

IH-41 / IH-94 NB OFF RAMP

PROJECT NO: 2050-08-71	HWY: BB	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 3	SHEET 150	E

FILE NAME : O:\HIGHWAY OPERATIONS CONTROL FILE\CENTRAL FILES\2010-2014\CTH BB - W. RAWSON AVE\2050-08-01 S 13TH ST TO W HOWELL AVE\DESIGN\PLANS\20500801_TC STAGE2_PLANSHEET.DWG
LAYOUT NAME - 01

PLOT DATE : 10/16/2024 8:13 AM PLOT BY : THORNBURG, ALEX PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

2

N

22+75.00

7+50.00

PLACE AT PEDESTRIAN CROSSING AT W. BIRDSONG DR
DETOUR
M4-9BR 30"X24"

ROAD WORK AHEAD
W20-1A

SIDEWALK CLOSED AHEAD
R9-9A 30"X18"
DETOUR
M4-9BR 30"X24"

PLACE AT PEDESTRIAN CROSSING AT W. BIRDSONG DR
DETOUR
M4-9BL 30"X24"

END ROAD WORK
G20-2A 48"X24"

BEGIN PROJECT 2050-08-71
STA 13+06.72

PEDESTRIAN BARRICADE

SIDEWALK CLOSED
R9-9 24"X12"

LANE CLOSED
R11-2L 48"X30"

WT6D
R6-2R 24"X30"

ONE WAY
R6-2R 24"X30"

R3-1 24"X24"

PGL W RAWSON AVE WB
R3-1 24"X24"

W. RAWSON AVE (CTH BB)

SPEED LIMIT 30
R2-1 24"X30"

LANE CLOSED
R11-2L 48"X30"

ROAD CLOSED AHEAD
W20-3A

ROAD CLOSED 500 FT
W20-3D

S. 10TH STREET

300'

500'

ROAD CLOSED TO THRU TRAFFIC
R11-4 60"X30"

SIDEWALK CLOSED AHEAD
R9-9A 30"X18"
DETOUR
M4-9BL 30"X24"

SIDEWALK CLOSED
R9-9 24"X12"

WT10
WT6
+10.00 34'LT
YT6
WT5G

10WB
15WB

20'
20'
25'
15'
14'
12'

LANE CLOSED
R11-2L 48"X30"

BEGIN CONSTRUCTION
STA 9+47.00

DETOUR
M4-9BR 30"X24"

WO1-6 48"X24"

LANE CLOSED
R11-2L 48"X30"

ONE WAY
R6-2R 24"X30"

SIDEWALK CLOSED AHEAD
R9-9A 30"X18"
DETOUR
M4-9BL 30"X24"

LANE CLOSED
R11-2L 48"X30"

S. 13TH STREET (CTH V)

END ROAD WORK
G20-2A 48"X24"

ROAD WORK AHEAD
W20-1A

SPEED LIMIT 30
R2-1 24"X30"

WO6-3

LANE CLOSED
R11-2L 48"X30"

WO1-6 48"X24"

+20.00 0'RT
W6-4 12"X18"

2YT6

ONE WAY
R6-1R 36"X12"
R3-2 24"X24"

WO1-4R

R/L W RAWSON AVE

ROAD CLOSED
R11-2 48"X30"

LANE CLOSED
R11-2L 48"X30"

END ROAD WORK
G20-2A 48"X24"

125'
25'
15'
200'
200'
200'

W6-4 12"X18"
R3-2 24"X24"
LEFT LANE CLOSED AHEAD
W20-5SA

ONE WAY
R6-1R 36"X12"
STOP
R1-1 36"X36"
R3-2 24"X24"

WO4-2L

LEFT LANE CLOSED AHEAD
W20-5SA

ROAD WORK AHEAD
W20-1A

PROJECT NO: 2050-08-71	HWY: BB	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 3	SHEET 151	E

FILE NAME : O:\HIGHWAY OPERATIONS CONTROL FILE\CENTRAL FILES\2010-2014\CTH BB - W. RAWSON AVE\2050-08-01 S 13TH ST TO W HOWELL AVE\DESIGN\PLANS\20500801_TC STAGE2_PLANSHEET.DWG
LAYOUT NAME - 02
PLOT DATE : 10/16/2024 8:14 AM
PLOT BY : THORNBURG, ALEX
PLOT NAME :
PLOT SCALE : 1 IN:100 FT

2

2

N

34+50.00

22+75.00

PGL W RAWSON AVE WB

ROAD CLOSED

R11-2
48"X30"

W. RAWSON AVE (CTH BB)

B-40-385
(EXISTING)

MWEL

25' WB

30' WB

14'

12'

12'

25'

25'

YT6

245'

R/L W RAWSON AVE

2YT6

WTS6

W6-4
12"X18"

R3-2
24"X24"

SPEED LIMIT 30

R2-1
24"X30"

W6A-2L

ONE WAY

R6-1R
36"X12"

R3-2
24"X24"

ONE WAY

R6-1R
36"X12"

R3-2
24"X24"

ONE WAY

R6-1R
36"X12"

R3-2
24"X24"

CANADIAN PACIFIC RAILWAY

PROJECT NO: 2050-08-71	HWY: BB	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 3	SHEET 152	E

FILE NAME : O:\HIGHWAY OPERATIONS CONTROL FILE\CENTRAL FILES\2010-2014\CTH BB - W. RAWSON AVE\2050-08-01 S 13TH ST TO W HOWELL AVE\DESIGN\PLANS\20500801_TC STAGE2_PLANSHEET.DWG
LAYOUT NAME - 03

PLOT DATE : 10/16/2024 8:14 AM PLOT BY : THORNBURG, ALEX PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

N

48+00.00

MATCHLINE B-B

75' TAPER

ROAD CLOSED
R11-2
48"X30"

YT6

2YT6

W6-4
12"X18"

WO1-4R

25
MPH
WO13-1
36"X36"

STOP HERE ON RED
R10-6
24"X36"

NO TURN ON RED
R10-11B
24"X24"

OAK CREEK VETERANS MEMORIAL PARK

LANE CLOSED
R11-2L
48"X30"

SPEED LIMIT 30
R2-1
24"X30"

W. RAWSON AVE (CTH BB)

ST18

WTD6

YTD6

WT10

BEGIN LEFT TURN LANE
R3-20L
24"X36"

ONE WAY
R6-1R
36"X12"

R3-2
24"X24"

R6-2R
24"X30"

R4-7
24"X30"

S. 6TH STREET

WT6

25'

210'

MATCHLINE C-C

34+50.00

PROJECT NO: 2050-08-71	HWY: BB	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 3-A	SHEET 153	E

FILE NAME : O:\HIGHWAY OPERATIONS CONTROL FILE\CENTRAL FILES\2010-2014\CTH BB - W. RAWSON AVE\2050-08-01 S 13TH ST TO W HOWELL AVE\DESIGN\PLANS\20500801_TC STAGE2_PLANSHEET.DWG
LAYOUT NAME - 04A

PLOT DATE : 10/16/2024 8:15 AM PLOT BY : THORNBURG, ALEX PLOT NAME : PLOT SCALE : 1 IN:100 FT

2

2

MATCHLINE D-D

48+00.00

34+50.00

MATCHLINE E-E

N

75' TAPER

OAK CREEK VETERANS MEMORIAL PARK

W. RAWSON AVE (CTH BB)

S. 6TH STREET

ROAD CLOSED
R11-2
48"X30"

LANE CLOSED
R11-2L
48"X30"

SPEED LIMIT 30
R2-1
24"X30"

STOP HERE ON RED
R10-6
24"X36"

NO TURN ON RED
R10-11B
24"X24"

BEGIN LEFT TURN LANE
R3-20L
24"X36"

ONE WAY
R6-1R
36"X12"

R3-2
24"X24"

ONE WAY
R6-2R
24"X30"

W6-4
12"X18"

WO1-7
48"X24"

WO1-4R

WT6

WT10

2YT6

YT6

ST18

6MP

45WB

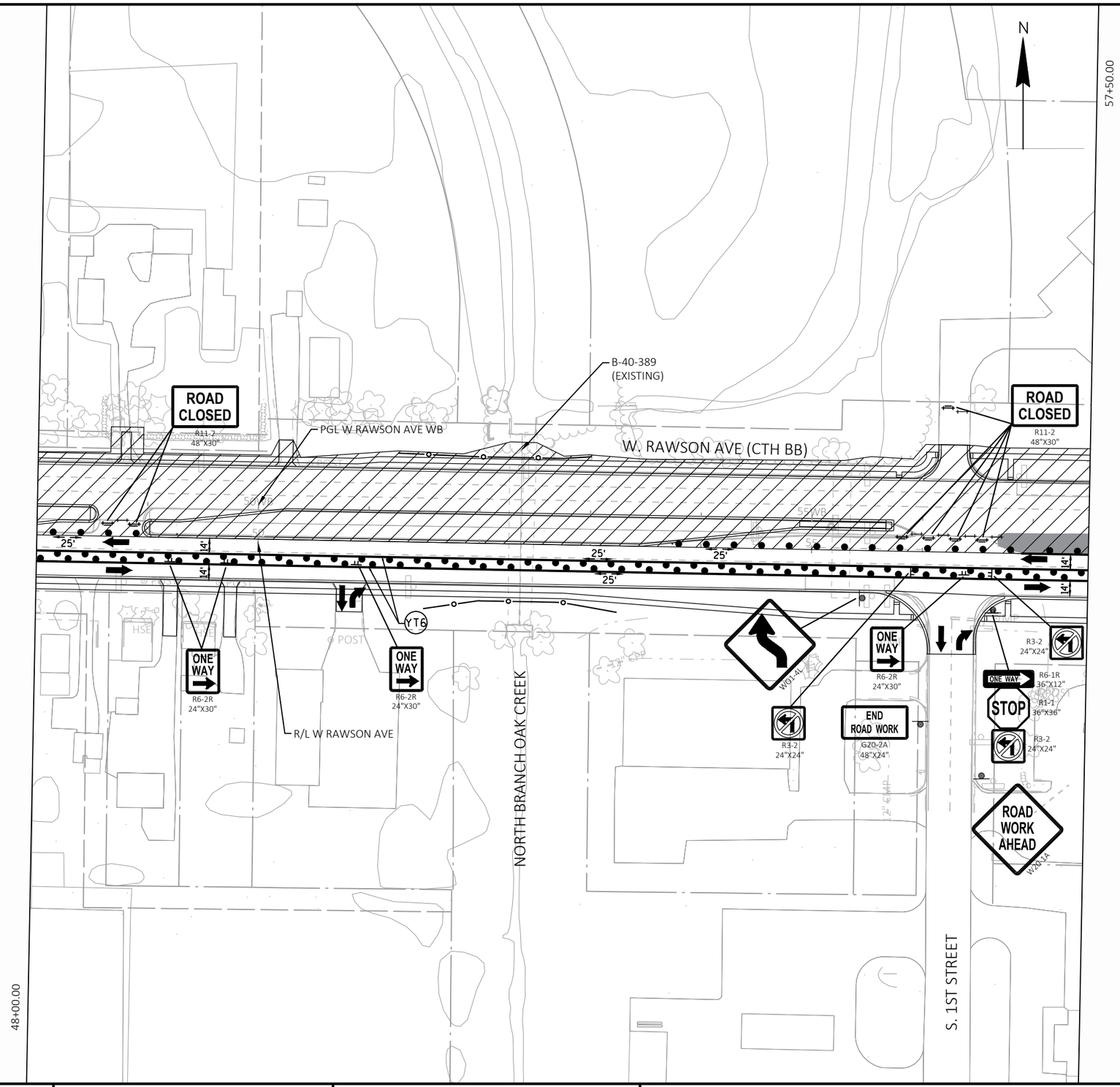
PROJECT NO: 2050-08-71	HWY: BB	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 3-B	SHEET 154	E

FILE NAME : O:\HIGHWAY OPERATIONS CONTROL FILE\CENTRAL FILES\2010-2014\CTH BB - W. RAWSON AVE\2050-08-01 S 13TH ST TO W HOWELL AVE\DESIGN\PLANS\20500801_TC STAGE2_PLANSHEET.DWG
LAYOUT NAME - 04B

PLOT DATE : 10/16/2024 8:14 AM PLOT BY : THORNBURG, ALEX PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

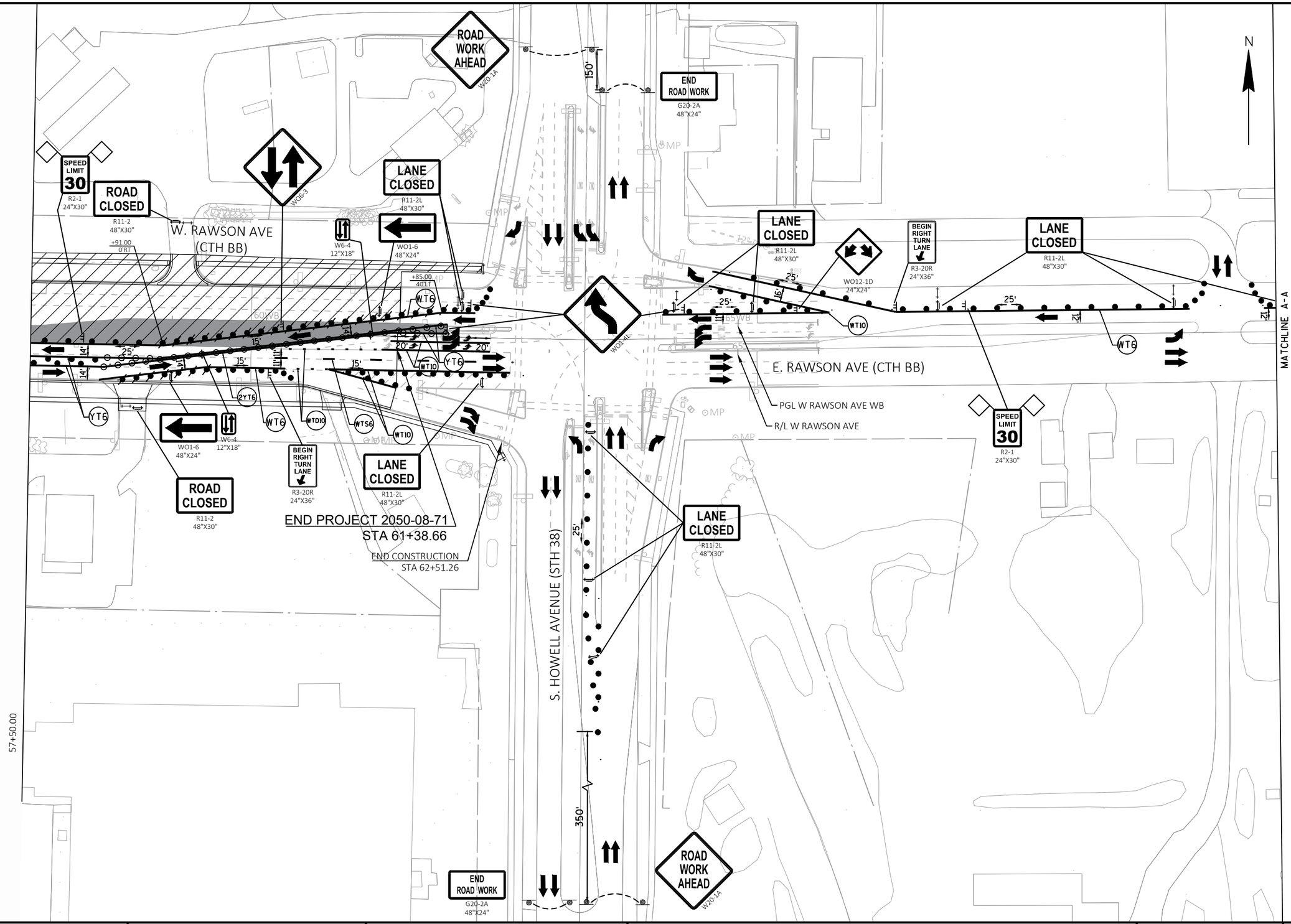
2



PROJECT NO: 2050-08-71	HWY: BB	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 3	SHEET 155	E

FILE NAME : O:\HIGHWAY OPERATIONS CONTROL FILE\CENTRAL FILES\2010-2014\CTH BB - W. RAWSON AVE\2050-08-01 S 13TH ST TO W HOWELL AVE\DESIGN\PLANS\20500801_TC STAGE2_PLANSHEETS.DWG
LAYOUT NAME - 05
PLOT DATE : 10/16/2024 8:15 AM PLOT BY : THORNBURG, ALEX PLOT NAME : PLOT SCALE : 1 IN:100 FT

2



PROJECT NO: 2050-08-71	HWY: BB	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 3	SHEET 156	E

FILE NAME : O:\HIGHWAY OPERATIONS CONTROL FILE\CENTRAL FILES\2010-2014\CTH BB - W. RAWSON AVE\2050-08-01 S 13TH ST TO W HOWELL AVE\DESIGN\PLANS\20500801_TC STAGE2_PLANSHEETS.DWG
LAYOUT NAME - 06
PLOT DATE : 10/16/2024 8:16 AM PLOT BY : THORNBURG, ALEX PLOT NAME : PLOT SCALE : 1 IN:100 FT

2

2

N

MATCHLINE A-A

320'

350'

350'

350'

25'

25'

12'

WT6

E. RAWSON AVE (CTH BB)

ROAD WORK AHEAD
W20-1A

RIGHT LANE CLOSED AHEAD
W20-5A

W04-2R

LANE CLOSED
R11-2L
48"X30"

END ROAD WORK
G20-2A
48"X24"

SPEED LIMIT 30
W03-3

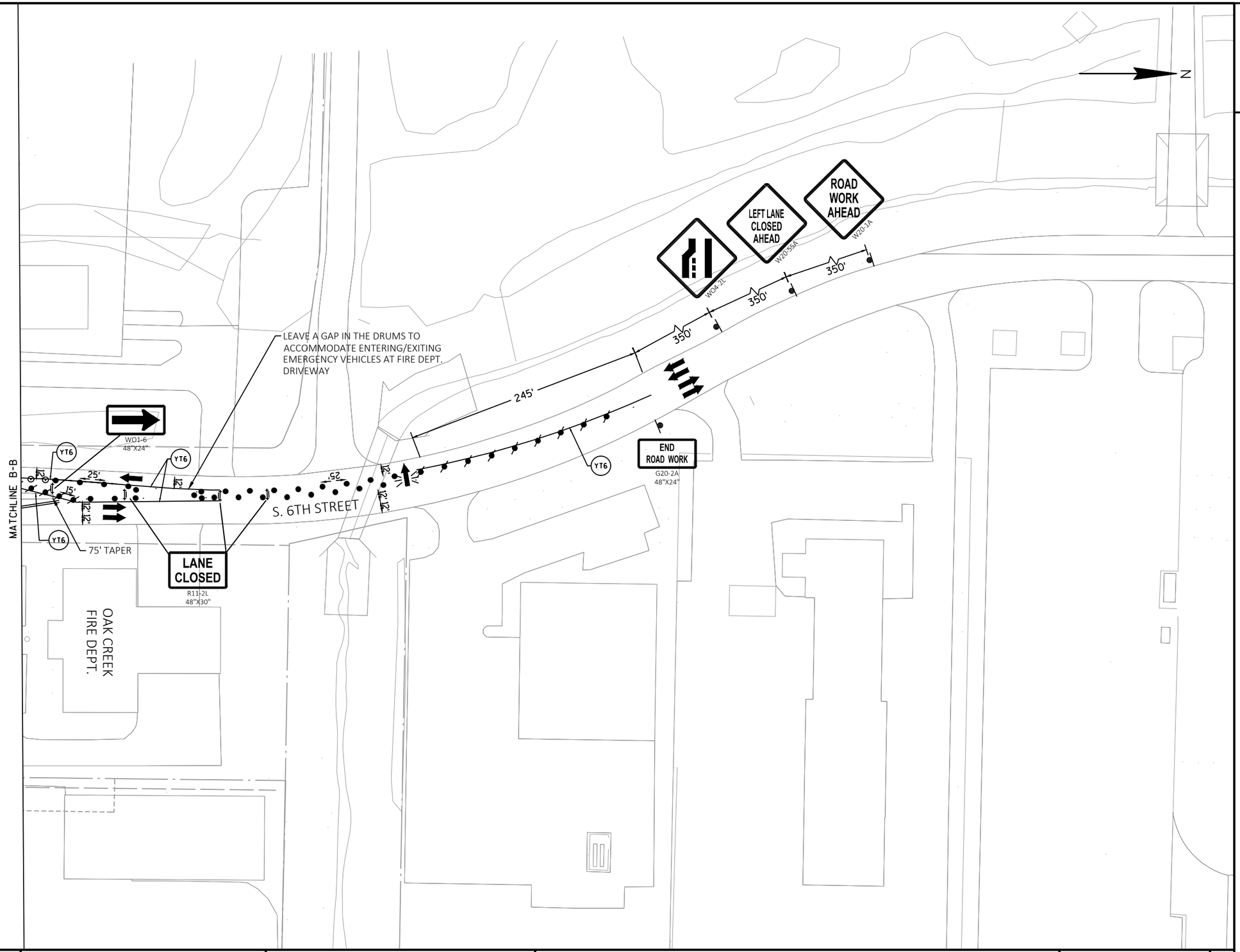
PROJECT NO: 2050-08-71	HWY: BB	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 3	SHEET 157	E

FILE NAME : O:\HIGHWAY OPERATIONS CONTROL FILE\CENTRAL FILES\2010-2014\CTH BB - W. RAWSON AVE\2050-08-01 S 13TH ST TO W HOWELL AVE\DESIGN\PLANS\20500801_TC STAGE2_PLANSHEET.DGN
LAYOUT NAME - 07

PLOT DATE : 10/16/2024 8:16 AM PLOT BY : THORNBURG, ALEX PLOT NAME : PLOT SCALE : 1 IN:100 FT

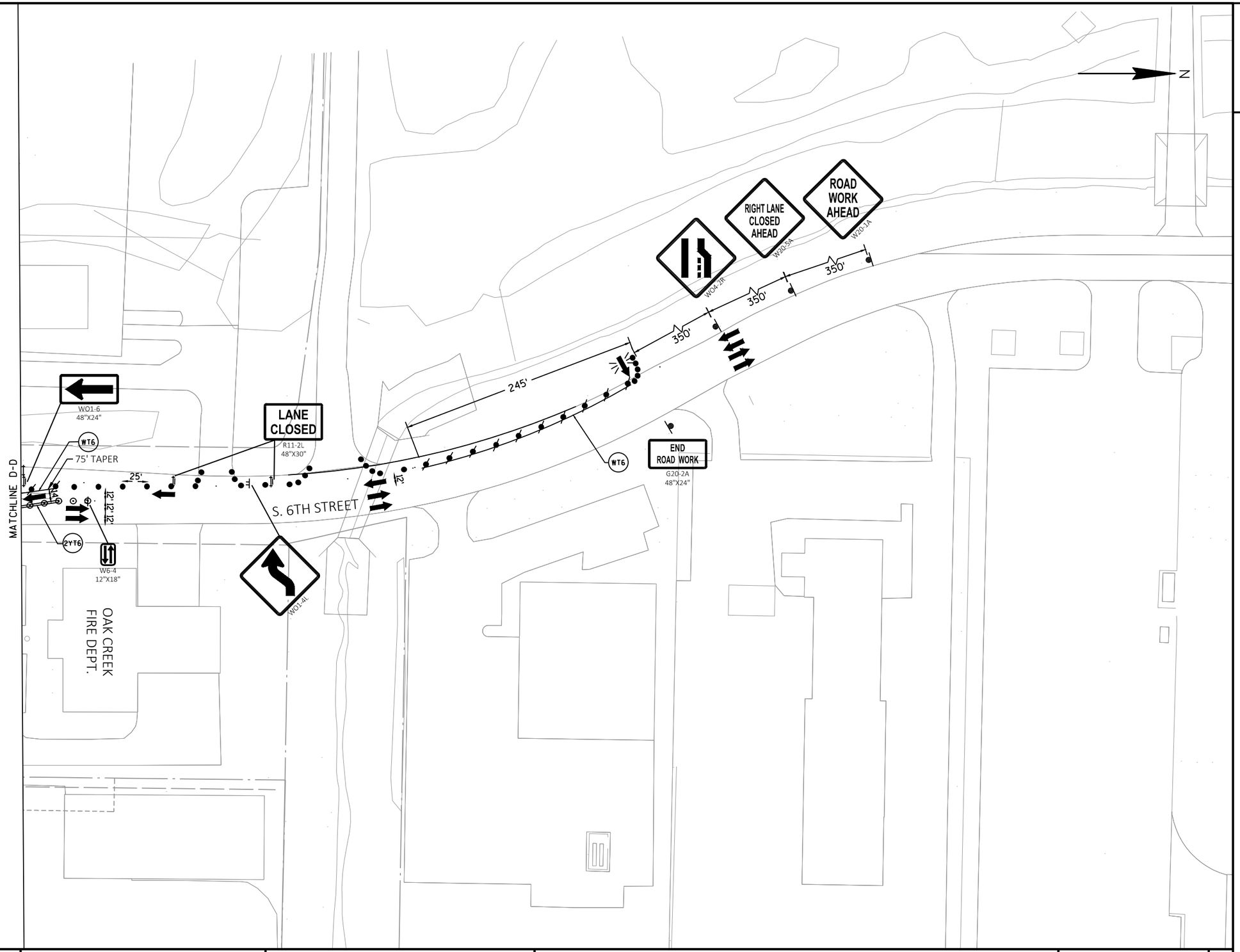
WISDOT/CADDS SHEET 42

2



PROJECT NO: 2050-08-71	HWY: BB	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 3-A	SHEET 158	E

2



PROJECT NO: 2050-08-71	HWY: BB	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 3-B	SHEET 159	E

FILE NAME : O:\HIGHWAY OPERATIONS CONTROL FILE\CENTRAL FILES\2010-2014\CTH BB - W. RAWSON AVE\2050-08-01 S 13TH ST TO W HOWELL AVE\DESIGN\PLANS\20500801_TC STAGE2_PLANSHEET.DWG
LAYOUT NAME - 08B
PLOT DATE : 10/16/2024 8:16 AM PLOT BY : THORNBURG, ALEX PLOT NAME : PLOT SCALE : 1 IN:100 FT

2

N

END
ROAD WORK
G20-2A
48"X24"

S. 6TH STREET

BURKHARD COURT

ROAD
WORK
AHEAD
W20-1A

350'

RIGHT LANE
CLOSED
AHEAD
W20-5A

350'

350'

W4-2R

MATCHLINE C-C

PROJECT NO: 2050-08-71	HWY: BB	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 3-A	SHEET 160	E

FILE NAME : O:\HIGHWAY OPERATIONS CONTROL FILE\CENTRAL FILES\2010-2014\CTH BB - W. RAWSON AVE\2050-08-01 S 13TH ST TO W HOWELL AVE\DESIGN\PLANS\20500801_TC STAGE2_PLANSHEET.DWG
LAYOUT NAME - 09A
PLOT DATE : 10/16/2024 8:17 AM PLOT BY : THORNBURG, ALEX PLOT NAME : PLOT SCALE : 1 IN:100 FT

2

2

N

END ROAD WORK
G20-2A
48"X24"

S. 6TH STREET

12'
12'
14'

25'

YT6

350'
350'
350'
235'

ROAD WORK AHEAD
W20-1A

LEFT LANE CLOSED AHEAD
W20-5SA

W04-2L

BURKHARD COURT

LANE CLOSED
R11-2L
48"X30"

12'
14'

25'
25'

YT6

160'

12'
14'

ROAD CLOSED
R11-2
48"X30"

WO1-6
48"X24"

MATCHLINE E-E

W06-3

PROJECT NO: 2050-08-71	HWY: BB	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 3-B	SHEET 161	E

FILE NAME : O:\HIGHWAY OPERATIONS CONTROL FILE\CENTRAL FILES\2010-2014\CTH BB - W. RAWSON AVE\2050-08-01 S 13TH ST TO W HOWELL AVE\DESIGN\PLANS\20500801_TC STAGE2_PLANSHEET.DWG
LAYOUT NAME - 09B

PLOT DATE : 10/16/2024 8:18 AM PLOT BY : THORNBURG, ALEX PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

2

7+50.00

N

IH-41 / IH-94 SB OFF RAMP

IH-41 / IH-94

ROAD WORK AHEAD
W20-1A

END ROAD WORK
G20-2A
48"X24"

PGL W RAWSON AVE WB

R/L W RAWSON AVE

W. RAWSON AVE (CTH BB)

320'

25'

YT6

14' 12' 12'

LANE CLOSED
R11-2L
48"X30"

BEGIN LEFT TURN LANE
R3-20L
24"X36"

SPEED LIMIT 30
R2-1
24"X30"

400'

ROAD WORK AHEAD
W20-1A

SPEED LIMIT 30
W03-5

LEFT LANE CLOSED AHEAD
W20-5SA

W04-2L

ROAD WORK AHEAD
W20-1A

IH-41 / IH-94 NB OFF RAMP

PROJECT NO: 2050-08-71	HWY: BB	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 4	SHEET 162	E

FILE NAME : O:\HIGHWAY OPERATIONS CONTROL FILE\CENTRAL FILES\2010-2014\CTH BB - W. RAWSON AVE\2050-08-01 S 13TH ST TO W HOWELL AVE\DESIGN\PLANS\20500801_TC STAGE3_PLANSHEET.DWG
LAYOUT NAME - 01

PLOT DATE : 10/16/2024 8:24 AM PLOT BY : THORNBURG, ALEX PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

2

N

22+75.00

7+50.00

ROAD WORK AHEAD W20-1A

END ROAD WORK G20-2A 48"X24"

BEGIN CONSTRUCTION STA 9+47.00

BEGIN PROJECT 2050-08-71 STA 13+06.72

PGL W RAWSON AVE WB

BEGIN LEFT TURN LANE R3-20L 24"X36"

ONE WAY R6-2R 24"X30"

ROAD CLOSED R11-2 48"X30"

LANE CLOSED R11-2L 48"X30"

WT S6

SPEED LIMIT 30 R2-1 24"X30"

W. RAWSON AVE (CTH BB)

ONE WAY R6-1R 36"X12"

STOP R1-1 36"X36"

R3-2 24"X24"

WT 10

14'12'12"

24'

25'

15'

10WB

10

LANE CLOSED R11-2L 48"X30"

WO1-6 48"X24"

S. 13TH STREET (CTH V)

R/L W RAWSON AVE

S. 10TH STREET

125'

25'

200'

WO4-2L

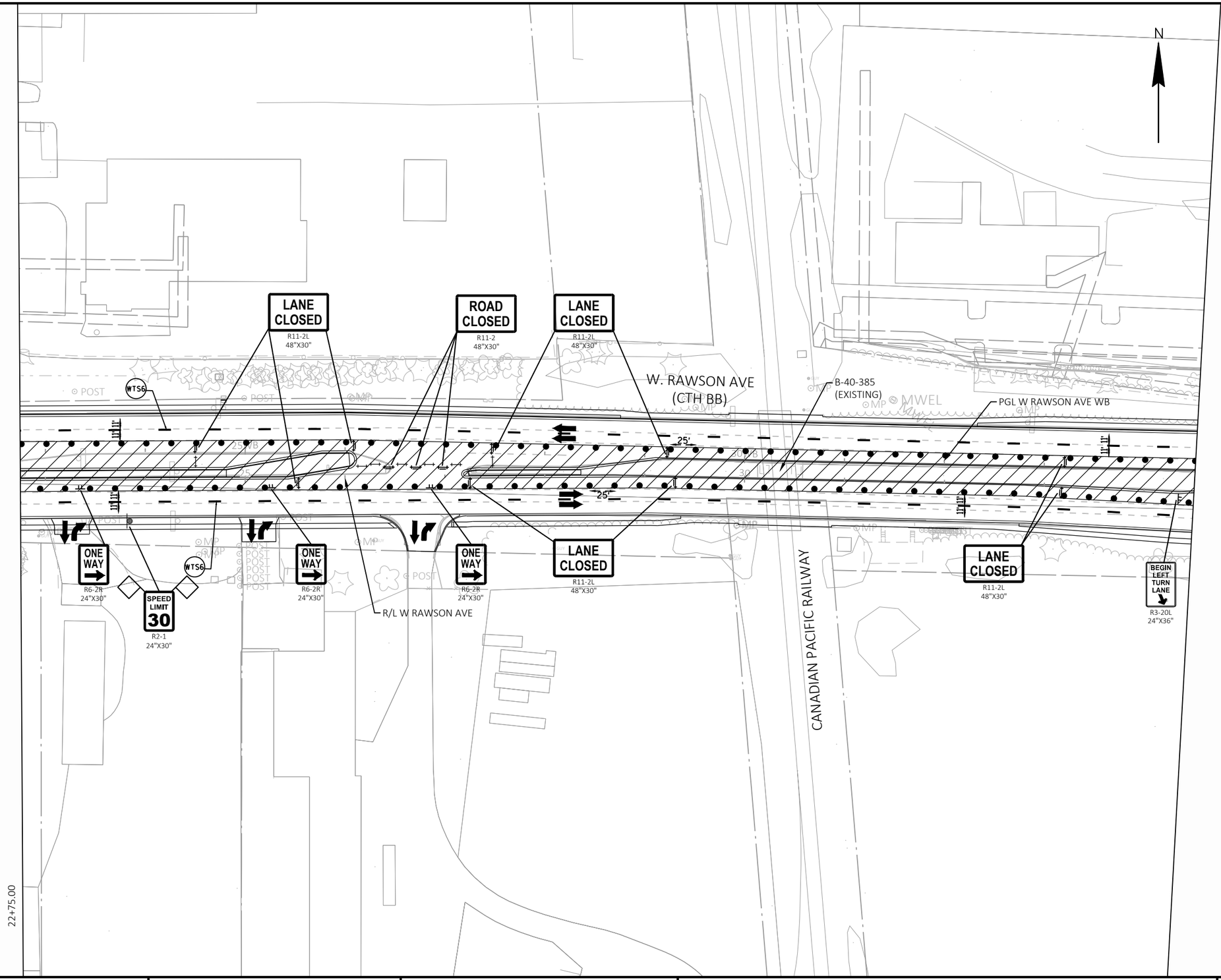
LEFT LANE CLOSED AHEAD W20-5A

PROJECT NO: 2050-08-71	HWY: BB	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 4	SHEET 163	E

FILE NAME : O:\HIGHWAY OPERATIONS CONTROL FILE\CENTRAL FILES\2010-2014\CTH BB - W. RAWSON AVE\2050-08-01 S 13TH ST TO W HOWELL AVE\DESIGN\PLANS\20500801_TC STAGE3_PLANSHEET.DWG LAYOUT NAME - 02 PLOT DATE : 10/16/2024 8:24 AM PLOT BY : THORNBURG, ALEX PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2



2

PROJECT NO: 2050-08-71	HWY: BB	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 4	SHEET 164	E

FILE NAME : O:\HIGHWAY OPERATIONS CONTROL FILE\CENTRAL FILES\2010-2014\CTH BB - W. RAWSON AVE\2050-08-01 S 13TH ST TO W HOWELL AVE\DESIGN\PLANS\20500801_TC STAGE3_PLANSHEETS.DWG
LAYOUT NAME - 03
PLOT DATE : 10/16/2024 8:25 AM PLOT BY : THORNBURG, ALEX PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

2

OAK CREEK
FIRE DEPT.

OAK CREEK
VETERANS
MEMORIAL
PARK

N

48+00.00

34+50.00

ROAD
WORK
AHEAD
W20-1A

END
ROAD WORK
G20-2A
48"X24"

SPEED
LIMIT
30
R2-1
24"X30"

LANE
CLOSED
R11-2L
48"X30"

WO1-6
48"X24"

WTS6

WT10

W. RAWSON AVE (CTH BB)

BEGIN
LEFT
TURN
LANE
R3-20L
24"X36"

ONE
WAY
R6-2R
24"X30"

ROAD
CLOSED
R11-2
48"X30"

25'
20'
32'

ONE WAY
R6-1R
36"X12"

R3-2
24"X24"

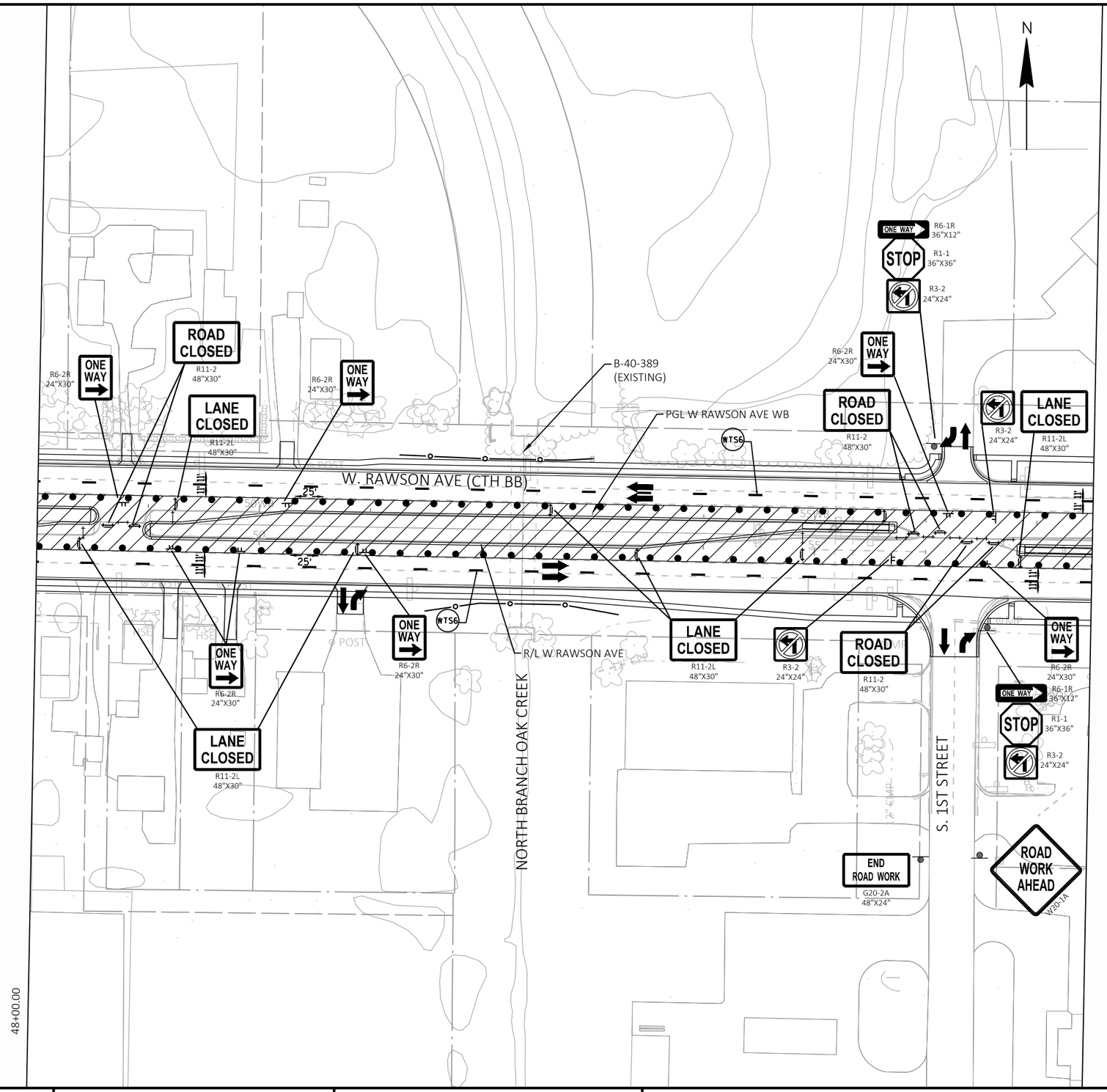
S. 6TH STREET

PROJECT NO: 2050-08-71	HWY: BB	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 4	SHEET 165	E

FILE NAME : O:\HIGHWAY OPERATIONS CONTROL FILE\CENTRAL FILES\2010-2014\CTH BB - W. RAWSON AVE\2050-08-01 S 13TH ST TO W HOWELL AVE\DESIGN\PLANS\20500801_TC STAGE3_PLANSHEET.DWG
LAYOUT NAME - 04
PLOT DATE : 10/16/2024 8:25 AM PLOT BY : THORNBURG, ALEX PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2



PROJECT NO: 2050-08-71	HWY: BB	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 4	SHEET 166	E

FILE NAME : O:\HIGHWAY OPERATIONS CONTROL FILE\CENTRAL FILES\2010-2014\CTH BB - W. RAWSON AVE\2050-08-01 S 13TH ST TO W HOWELL AVE\DESIGN\PLANS\20500801_TC STAGE3_PLANSHEETS.DWG LAYOUT NAME - 05 PLOT DATE : 10/16/2024 8:25 AM PLOT BY : THORNBURG, ALEX PLOT NAME : PLOT SCALE : 1 IN:100 FT

2

2

ROAD WORK AHEAD
W20-1A

150'

END ROAD WORK
G20-2A
48"X24"

N

SPEED LIMIT 30
R2-1
24"X30"

ONE WAY
R6-2R
24"X30"

LANE CLOSED
R11-2L
48"X30"

W. RAWSON AVE (CTH BB)

PGL W RAWSON AVE WB

WT5

WO1-6
48"X24"

WT10

WTD10

BEGIN LEFT TURN LANE
R3-20L
24"X36"

YT6

WT6

MATCH INTO EXISTING TAPER

130'

E. RAWSON AVE (CTH BB)

MATCHLINE D-D

R/L W RAWSON AVE

WO1-6BL

BEGIN LEFT TURN LANE
R3-20L
24"X36"

END CONSTRUCTION
STA 62+51.26

END PROJECT 2050-08-71
STA 61+38.66

S. HOWELL AVENUE (STH 38)

57+50.00

350'

END ROAD WORK
G20-2A
48"X24"

ROAD WORK AHEAD
W20-1A

PROJECT NO: 2050-08-71	HWY: BB	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 4	SHEET 167	E

FILE NAME : O:\HIGHWAY OPERATIONS CONTROL FILE\CENTRAL FILES\2010-2014\CTH BB - W. RAWSON AVE\2050-08-01 S 13TH ST TO W HOWELL AVE\DESIGN\PLANS\20500801_TC STAGE3_PLANSHEET.DWG
LAYOUT NAME - 06

PLOT DATE : 10/16/2024 8:26 AM PLOT BY : THORNBURG, ALEX PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

2

N

MATCHLINE D-D

SPEED LIMIT 30
R2-1
24"X30"

MATCH INTO EXISTING TAPER

WT6

160'

25'

12'

12'

12'

12'

350'

350'

350'

350'

W1-4BR
48"X48"

SPEED LIMIT 30
R2-1
24"X30"

SPEED LIMIT 30
WO3-5

ROAD WORK AHEAD
W20-1A

E. RAWSON AVE (CTH BB)

YT6

LANE CLOSED
R11-2L
48"X36"

WO1-6
48"X24"

END ROAD WORK
G20-2A
48"X24"

PROJECT NO: 2050-08-71	HWY: BB	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 4	SHEET 168	E

FILE NAME : O:\HIGHWAY OPERATIONS CONTROL FILE\CENTRAL FILES\2010-2014\CTH BB - W. RAWSON AVE\2050-08-01 S 13TH ST TO W HOWELL AVE\DESIGN\PLANS\20500801_TC STAGE3_PLANSHEET.DWG
LAYOUT NAME - 07

PLOT DATE : 10/16/2024 8:26 AM PLOT BY : THORNBURG, ALEX PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

2

N

7+50.00

IH-41 / IH-94 SB OFF RAMP

IH-41 / IH-94

ROAD WORK AHEAD
W20-1A

END ROAD WORK
G20-2A
48"X24"

PGL W RAWSON AVE WB

R/L W RAWSON AVE

W. RAWSON AVE (CTH BB)

320'

25'

14'

12'

12'

LANE CLOSED
R11-2L
48"X30"

BEGIN LEFT TURN LANE
R3-20L
24"X36"

ROAD WORK AHEAD
W20-1A

LEFT LANE CLOSED AHEAD
W20-5SA

W04-2L

ROAD WORK AHEAD
W20-1A

IH-41 / IH-94 NB OFF RAMP

PROJECT NO: 2050-08-71	HWY: BB	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 5A	SHEET 169	E

FILE NAME : O:\HIGHWAY OPERATIONS CONTROL FILE\CENTRAL FILES\2010-2014\CTH BB - W. RAWSON AVE\2050-08-01 S 13TH ST TO W HOWELL AVE\DESIGN\PLANS\20500801_TC STAGE5A_RECOVER.DWG
LAYOUT NAME - 01

PLOT DATE : 10/16/2024 9:18 AM PLOT BY : THORNBURG, ALEX PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

2

N

22+75.00

7+50.00

ROAD WORK AHEAD
W20-1A

END ROAD WORK
G20-2A
48"X24"

BEGIN CONSTRUCTION
STA 9+47.00

BEGIN PROJECT 2050-08-71
STA 13+06.72

PGL W RAWSON AVE WB

BEGIN LEFT TURN LANE
R3-20L
24"X36"

ONE WAY
R6-2R
24"X30"

ROAD CLOSED
R11-2
48"X30"

LANE CLOSED
R11-2L
48"X30"

WO1-6
48"X24"

W. RAWSON AVE (CTH BB)

R/L W RAWSON AVE

S. 13TH STREET (CTH V)

S. 10TH STREET

10WB

15WB

20WB

25'

15'

14'|12'|12'

REMOVE

PROJECT NO: 2050-08-71	HWY: BB	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 5A	SHEET 170	E

FILE NAME : O:\HIGHWAY OPERATIONS CONTROL FILE\CENTRAL FILES\2010-2014\CTH BB - W. RAWSON AVE\2050-08-01 S 13TH ST TO W HOWELL AVE\DESIGN\PLANS\20500801_TC STAGE5A_RECOVER.DWG
LAYOUT NAME - 02

PLOT DATE : 10/16/2024 9:19 AM PLOT BY : THORNBURG, ALEX PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

2

N

34+50.00

22+75.00

W. RAWSON AVE (CTH BB)

LANE CLOSED
R11-2L
48"X30"

BEGIN LEFT TURN LANE
R3-20L
24"X36"

WO1-6
48"X24"

LANE CLOSED
R11-2L
48"X30"

BEGIN LEFT TURN LANE
R3-20L
24"X36"

B-40-385
(EXISTING)

PGL W RAWSON AVE WB

MWEL

25'

25WB

30WB

ONE WAY
R6-2R
24"X30"

ONE WAY
R6-2R
24"X30"

LANE CLOSED
R11-2L
48"X30"

LANE CLOSED
R11-2L
48"X30"

BEGIN LEFT TURN LANE
R3-20L
24"X36"

R/L W RAWSON AVE

CANADIAN PACIFIC RAILWAY

PROJECT NO: 2050-08-71	HWY: BB	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 5A	SHEET 171	E

FILE NAME : O:\HIGHWAY OPERATIONS CONTROL FILE\CENTRAL FILES\2010-2014\CTH BB - W. RAWSON AVE\2050-08-01 S 13TH ST TO W HOWELL AVE\DESIGN\PLANS\20500801_TC STAGE5A_RECOVER.DWG
LAYOUT NAME - 03
PLOT DATE : 10/16/2024 9:19 AM PLOT BY : THORNBURG, ALEX PLOT NAME : PLOT SCALE : 1 IN:100 FT

2

2

OAK CREEK
FIRE DEPT.

OAK CREEK
VETERANS
MEMORIAL
PARK

W. RAWSON AVE (CTH BB)

S. 6TH STREET

N

48+00.00

34+50.00

ROAD WORK AHEAD
W20-1A

END ROAD WORK
G20-2A
48"X24"

LANE CLOSED
R11-2L
48"X30"

WO1-6
48"X24"

BEGIN LEFT TURN LANE
R3-20L
24"X36"

ONE WAY
R6-2R
24"X30"

ONE WAY
R6-1R
36"X12"

R3-2
24"X24"

REMOVE

35WB

45WB

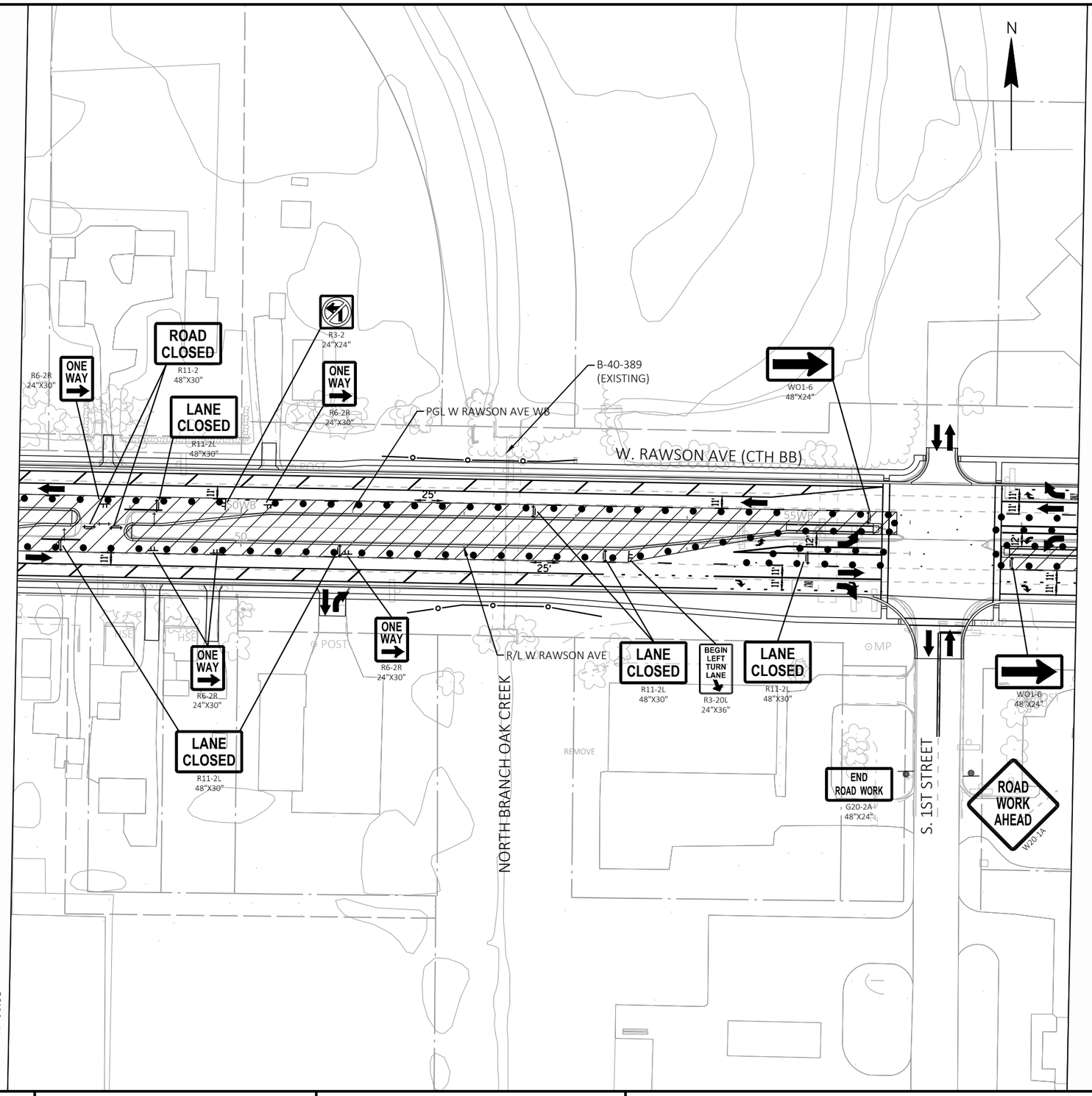
25'

PROJECT NO: 2050-08-71	HWY: BB	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 5A	SHEET 172	E

FILE NAME : O:\HIGHWAY OPERATIONS CONTROL FILE\CENTRAL FILES\2010-2014\CTH BB - W. RAWSON AVE\2050-08-01 S 13TH ST TO W HOWELL AVE\DESIGN\PLANS\20500801_TC STAGE5A_RECOVER.DWG
LAYOUT NAME - 04
PLOT DATE : 10/16/2024 9:20 AM PLOT BY : THORNBURG, ALEX PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2



PROJECT NO: 2050-08-71	HWY: BB	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 5A	SHEET 173	E

FILE NAME : O:\HIGHWAY OPERATIONS CONTROL FILE\CENTRAL FILES\2010-2014\CTH BB - W. RAWSON AVE\2050-08-01 S 13TH ST TO W HOWELL AVE\DESIGN\PLANS\20500801_TC STAGE5A_RECOVERY.DWG
LAYOUT NAME - 05
PLOT DATE : 10/16/2024 9:20 AM PLOT BY : THORNBURG, ALEX PLOT NAME : PLOT SCALE : 1 IN:100 FT

2

2

ROAD WORK AHEAD
W20-1A

150'

END ROAD WORK
G20-2A
48"X24"

N

ONE WAY
R6-2R
24"X30"

BEGIN LEFT TURN LANE
R3-20L
24"X36"

LANE CLOSED
R11-2L
48"X30"

W. RAWSON AVE
(CTH BB)

WO1-6
48"X24"

25'

11'

65'WB

12'

10'

50'

E. RAWSON AVE (CTH BB)

MATCHLINE A-A

R/L W RAWSON AVE

PGL W RAWSON AVE WB

END CONSTRUCTION
STA 62+51.26

END PROJECT 2050-08-71
STA 61+38.66

S. HOWELL AVENUE (STH 38)

57+50.00

350'

2

2

N

MATCHLINE A-A

E. RAWSON AVE (CTH BB)

W04-2L

LEFT LANE CLOSED AHEAD
W20-5SA

ROAD WORK AHEAD
W20-1A

320'

350'

350'

350'

50'

12'

25'

LANE CLOSED
R11-2L
48"X30"

END ROAD WORK
G20-2A
48"X24"

PROJECT NO: 2050-08-71	HWY: BB	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 5A	SHEET 175	E

FILE NAME : O:\HIGHWAY OPERATIONS CONTROL FILE\CENTRAL FILES\2010-2014\CTH BB - W. RAWSON AVE\2050-08-01 S 13TH ST TO W HOWELL AVE\DESIGN\PLANS\20500801_TC STAGE5A_RECOVERY.DWG
LAYOUT NAME - 07
PLOT DATE : 10/16/2024 9:21 AM PLOT BY : THORNBURG, ALEX PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

2

N

7+50.00

IH-41 / IH-94 SB OFF RAMP

ROAD WORK AHEAD
W20-1A

IH-41 / IH-94

END ROAD WORK
G20-2A
48"X24"

PGL W RAWSON AVE WB

R/L W RAWSON AVE

W. RAWSON AVE (CTH BB)

12' 12' 16'

25'

25'

320'

LANE CLOSED
R11-2L
48"X30"

ROAD WORK AHEAD
W20-1A

RIGHT LANE CLOSED AHEAD
W20-5A

W04-2R

ROAD WORK AHEAD
W20-1A

IH-41 / IH-94 NB OFF RAMP

PROJECT NO: 2050-08-71	HWY: BB	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 5B	SHEET 176	E

FILE NAME : O:\HIGHWAY OPERATIONS CONTROL FILE\CENTRAL FILES\2010-2014\CTH BB - W. RAWSON AVE\2050-08-01 S 13TH ST TO W HOWELL AVE\DESIGN\PLANS\20500801_TC STAGE5B.DWG PLOT DATE : 10/16/2024 8:35 AM PLOT BY : THORNBURG, ALEX PLOT NAME : PLOT SCALE : 1 IN:100 FT
LAYOUT NAME - 01

WISDOT/CADDS SHEET 42

2

2

N

22+75.00

7+50.00

ROAD WORK AHEAD
W20-1A

END ROAD WORK
G20-2A
48"X24"

BEGIN CONSTRUCTION
STA 9+47.00

BEGIN PROJECT 2050-08-71
STA 13+06.72

LANE CLOSED
R11-2L
48"X30"

PGL W RAWSON AVE WB

W. RAWSON AVE (CTH BB)

R/L W RAWSON AVE

BEGIN RIGHT TURN LANE
R3-20R
24"X36"

WO12-1D
24"X24"

S. 13TH STREET (CTH V)

S. 10TH STREET

10WB

15WB

20WB

25'

50'

15'

PROJECT NO: 2050-08-71	HWY: BB	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 5B	SHEET 177	E

FILE NAME : O:\HIGHWAY OPERATIONS CONTROL FILE\CENTRAL FILES\2010-2014\CTH BB - W. RAWSON AVE\2050-08-01 S 13TH ST TO W HOWELL AVE\DESIGN\PLANS\20500801_TC STAGE5B.DWG
LAYOUT NAME - 02
PLOT DATE : 10/16/2024 8:35 AM
PLOT BY : THORNBURG, ALEX
PLOT NAME :
PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

2

N

34+50.00

22+75.00

LANE CLOSED
R11-2L
48"X30"

PGL W RAWSON AVE WB

R/L W RAWSON AVE

B-40-385
(EXISTING)

W. RAWSON AVE (CTH BB)

CANADIAN PACIFIC RAILWAY

25WB

30WB

50'

11'

12'

PROJECT NO: 2050-08-71	HWY: BB	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 5B	SHEET 178	E

FILE NAME : O:\HIGHWAY OPERATIONS CONTROL FILE\CENTRAL FILES\2010-2014\CTH BB - W. RAWSON AVE\2050-08-01 S 13TH ST TO W HOWELL AVE\DESIGN\PLANS\20500801_TC STAGE5B.DWG PLOT DATE : 10/16/2024 8:36 AM PLOT BY : THORNBURG, ALEX PLOT NAME : PLOT SCALE : 1 IN:100 FT
LAYOUT NAME - 03

2

2

N

48+00.00

34+50.00

OAK CREEK
VETERANS
MEMORIAL
PARK

W. RAWSON AVE (CTH BB)

S. 6TH STREET

ROAD
WORK
AHEAD
W20-1A

END
ROAD WORK
G20-2A
48"X24"

LANE
CLOSED
R11-2L
48"X30"

50'

45WB

PROJECT NO: 2050-08-71	HWY: BB	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 5B	SHEET 179	E

FILE NAME : O:\HIGHWAY OPERATIONS CONTROL FILE\CENTRAL FILES\2010-2014\CTH BB - W. RAWSON AVE\2050-08-01 S 13TH ST TO W HOWELL AVE\DESIGN\PLANS\20500801_TC STAGE5B.DWG PLOT DATE : 10/16/2024 8:36 AM PLOT BY : THORNBURG, ALEX PLOT NAME : PLOT SCALE : 1 IN:100 FT
LAYOUT NAME - 04

2

2

N

57+50.00

48+00.00

LANE CLOSED
R11-2L
48"X30"

PGL W RAWSON AVE WB

B-40-389
(EXISTING)

LANE CLOSED
R11-2L
48"X30"

LANE CLOSED
R11-2L
48"X30"

50WB

50'

W. RAWSON AVE (CTH BB)

55WB

50

55

50'

11'-11"

11'-11"

11'-11"

HSE

HSE

POST

MH

LANE CLOSED
R11-2L
48"X30"

R/L W RAWSON AVE

LANE CLOSED
R11-2L
48"X30"

LANE CLOSED
R11-2L
48"X30"

NORTH BRANCH OAK CREEK

S. 1ST STREET

END ROAD WORK
G20-2A
48"X24"

ROAD WORK AHEAD
W20-1A

PROJECT NO: 2050-08-71	HWY: BB	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 5B	SHEET 180	E

FILE NAME : O:\HIGHWAY OPERATIONS CONTROL FILE\CENTRAL FILES\2010-2014\CTH BB - W. RAWSON AVE\2050-08-01 S 13TH ST TO W HOWELL AVE\DESIGN\PLANS\20500801_TC STAGE5B.DWG PLOT DATE : 10/16/2024 8:37 AM PLOT BY : THORNBURG, ALEX PLOT NAME : PLOT SCALE : 1 IN:100 FT
LAYOUT NAME - 05

2

N

ROAD WORK AHEAD
W20-1A

150'

END ROAD WORK
G20-2A
48"X24"

LANE CLOSED
R11-2L
48"X30"

LANE CLOSED
R11-2L
48"X30"

RIGHT SHOULDER CLOSED AHEAD
W21-5B

ROAD WORK AHEAD
W20-1A

50'
60WB

W. RAWSON AVE (CTH BB)

50'

65WB

E. RAWSON AVE (CTH BB)

PGL W RAWSON AVE WB

R/L W RAWSON AVE

END ROAD WORK
G20-2A
48"X24"

LANE CLOSED
R11-2L
48"X30"

BEGIN RIGHT TURN LANE
R3-20R
24"X36"

LANE CLOSED
R11-2L
48"X30"

25'

END PROJECT 2050-08-71
STA 61+38.66

LANE CLOSED
R11-2L
48"X30"

END CONSTRUCTION
STA 62+51.26

S. HOWELL AVENUE (STH 38)

57+50.00

END ROAD WORK
G20-2A
48"X24"

ROAD WORK AHEAD
W20-1A

PROJECT NO: 2050-08-71	HWY: BB	COUNTY: MILWAUKEE	TRAFFIC CONTROL - STAGE 5B	SHEET 181	E

FILE NAME : O:\HIGHWAY OPERATIONS CONTROL FILE\CENTRAL FILES\2010-2014\CTH BB - W. RAWSON AVE\2050-08-01 S 13TH ST TO W HOWELL AVE\DESIGN\PLANS\20500801_TC STAGE5B.DWG PLOT DATE : 10/16/2024 8:37 AM PLOT BY : THORNBURG, ALEX PLOT NAME : PLOT SCALE : 1 IN:100 FT
LAYOUT NAME - 06

2

N

SEWRPC MONUMENT
(SEE SPECIAL PROVISIONS)

T 05 N
R 22 E
05
08

BP: 7+34.39
N = 340798.817
E = 2554019.109

PI: 10+09.95

PI: 16+55.07

PI: 29+06.18

PI: 32+81.23

28.0'

19.5'

10WB

15WB

20WB

25WB

30WB

35WB

15

20

25

30

35

275.56' N89°05'28"E

645.13' S88°44'00"E

1251.11' N89°40'18"E

375.05' S88°43'35"E

1008.34' S86°52'08"E

T 05 N
R 22 E
06 05
07 08

S. 13TH STREET (CTH V)

S. 10TH STREET

CANADIAN PACIFIC RAILWAY

PROJECT NO: 2050-08-71	HWY: CTH BB	COUNTY: MILWAUKEE	ALIGNMENT DIAGRAM - W. RAWSON AVENUE	SHEET 182	E

FILE NAME : O:\HIGHWAY OPERATIONS CONTROL FILE\CENTRAL FILES\2010-2014\CTH BB - W. RAWSON AVE\2050-08-01 S 13TH ST TO W HOWELL AVE\DESIGN\PLANS\20500801_AD.DWG
LAYOUT NAME - 01

PLOT DATE : 10/12/2023 10:06 AM PLOT BY : SAUNDERSON, ELIZABETH PLOT NAME : PLOT SCALE : 1 IN:200 FT

2

2

N

SEWRPC MONUMENT
(SEE SPECIAL PROVISIONS)

T 05 N
R 22 E
05
08

T 05 N
R 22 E
05 04
08 09

28.0'

PI: 42+89.57

28.0'

PI: 63+37.35

EP: 65+85.21
N = 340696.895
E = 2559867.740

30.0'

40WB
40
1008.34' S86°52'08"E
45WB
45
50WB
50
2047.77' S88°55'04"E
55WB
55
60WB
60
65WB
65
247.87' N89°19'54"E

S. 6TH STREET

NORTH BRANCH OAK CREEK

S. 1ST STREET

S. HOWELL AVENUE (STH 38)

PROJECT NO: 2050-08-71	HWY: CTH BB	COUNTY: MILWAUKEE	ALIGNMENT DIAGRAM - W. RAWSON AVENUE	SHEET 183	E

FILE NAME : O:\HIGHWAY OPERATIONS CONTROL FILE\CENTRAL FILES\2010-2014\CTH BB - W. RAWSON AVE\2050-08-01 S 13TH ST TO W HOWELL AVE\DESIGN\PLANS\20500801_AD.DWG
LAYOUT NAME - 02

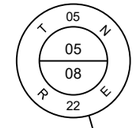
PLOT DATE : 10/12/2023 10:06 AM PLOT BY : SAUNDERSON, ELIZABETH PLOT NAME : PLOT SCALE : 1 IN:200 FT

WISDOT/CADDS SHEET 42

2

N

SEWRPC MONUMENT
(SEE SPECIAL PROVISIONS)



BP: 7+33.92WB
N = 340826.813
E = 2554018.665

PI: 10+10.01WB

PI: 16+55.28WB

PI: 26+02.29WB

PI: 35+44.24WB

10WB

15WB

20WB

25WB

30WB

35WB

276.09' N89°05'28"E

645.27' S88°44'00"E

947.01' N89°40'18"E

941.95' S88°43'35"E

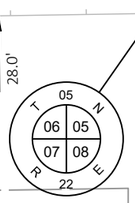
28.0'

28.0'

28.0'

19.5'

28.0'



S. 13TH STREET (CTH V)

S. 10TH STREET

CANADIAN PACIFIC RAILWAY

PROJECT NO: 2050-08-71	HWY: CTH BB	COUNTY: MILWAUKEE	ALIGNMENT DIAGRAM - W. RAWSON AVENUE (WESTBOUND)	SHEET 184	E

FILE NAME : O:\HIGHWAY OPERATIONS CONTROL FILE\CENTRAL FILES\2010-2014\CTH BB - W. RAWSON AVE\2050-08-01 S 13TH ST TO W HOWELL AVE\DESIGN\PLANS\20500801_AD-WB.DWG
LAYOUT NAME - 01

PLOT DATE : 10/12/2023 10:21 AM

PLOT BY : SAUNDERSON, ELIZABETH

PLOT NAME :

PLOT SCALE : 1 IN:200 FT

WISDOT/CADDS SHEET 42

2

2

N

SEWRPC MONUMENT
(SEE SPECIAL PROVISIONS)

T 05 N
R 22 E
05
08

T 05 N
R 22 E
05 04
08 09

28.0'

746.08' S86°52'08"E

40WB

PI: 42+90.32WB

45WB

28.0'

50WB

1981.37' S88°55'04"E

55WB

PI: 62+71.70WB

60WB

912.88' N89°19'54"E

65WB

30.0'

EP: 65+84.57WB
N = 340726.893
E = 2559867.390

S. 6TH STREET

NORTH BRANCH OAK CREEK

S. 1ST STREET

S. HOWELL AVENUE (STH 38)

PROJECT NO: 2050-08-71	HWY: CTH BB	COUNTY: MILWAUKEE	ALIGNMENT DIAGRAM - W. RAWSON AVENUE (WESTBOUND)	SHEET 185	E

FILE NAME : O:\HIGHWAY OPERATIONS CONTROL FILE\CENTRAL FILES\2010-2014\CTH BB - W. RAWSON AVE\2050-08-01 S 13TH ST TO W HOWELL AVE\DESIGN\PLANS\20500801_AD-WB.DWG
LAYOUT NAME - 02
PLOT DATE : 10/12/2023 10:21 AM
PLOT BY : SAUNDERSON, ELIZABETH
PLOT NAME :
PLOT SCALE : 1 IN:200 FT

WISDOT/CADDS SHEET 42

2

WEST CROSS OVER

N

BP: 100+00.00

EP: 104+75.00

110'

475.00' S88°57'25"E

SECTION LINE

T 05 N
06 05
07 08
R 22 E

S. 13TH STREET (CTH V)

S. 10TH STREET

EAST CROSS OVER

N

BP: 200+00.00

EP: 205+25.00

SECTION LINE

525.00' S88°55'04"E

205

146'

T 05 N
05 04
08 09
R 22 E

NORTH BRANCH OAK CREEK

S. 1ST STREET

S. HOWELL AVENUE (STH 38)

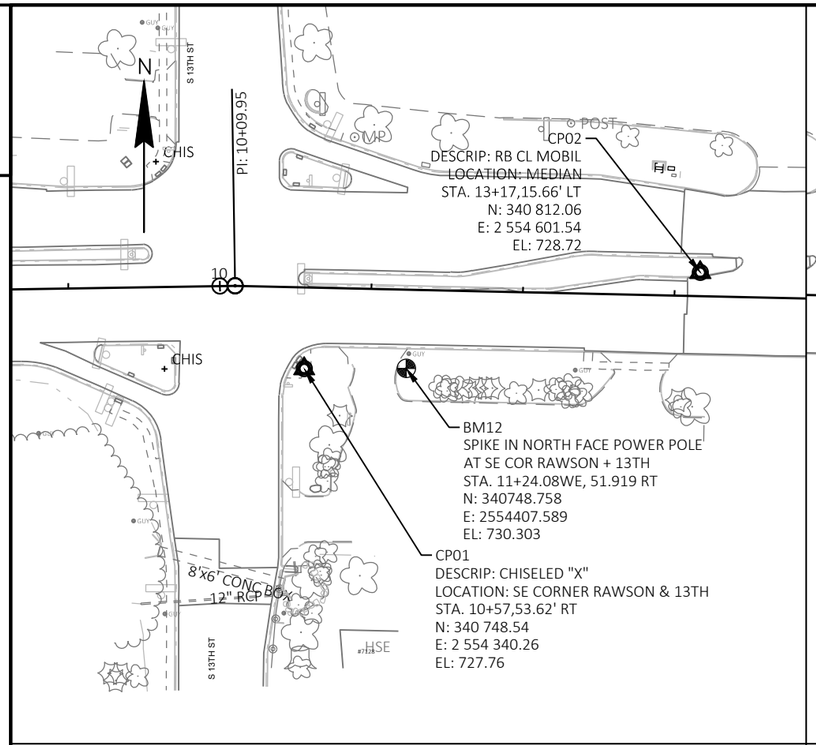
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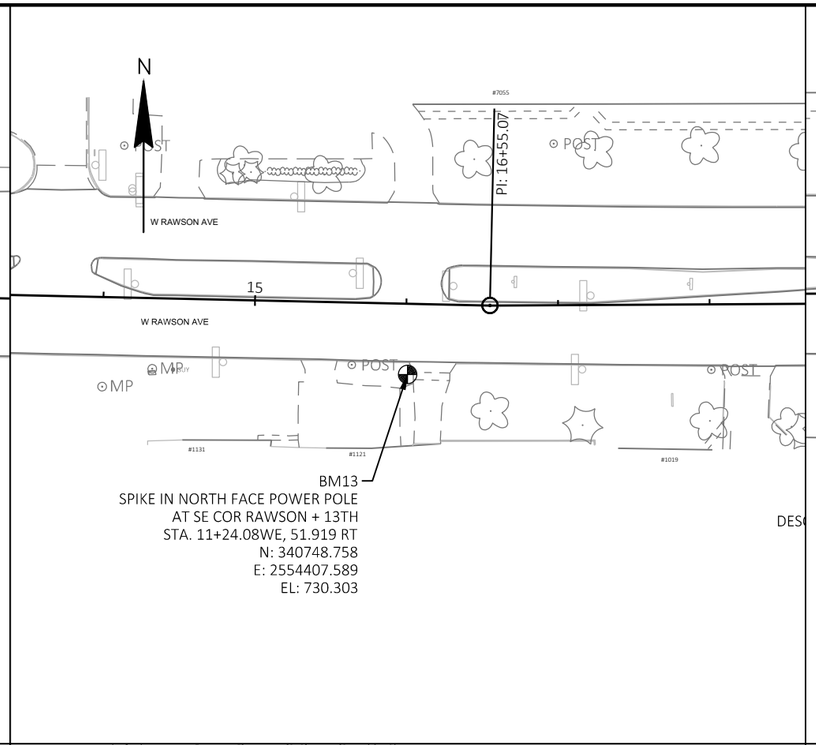
PROJECT NO: 2050-08-71	HWY: CTH BB	COUNTY: MILWAUKEE	ALIGNMENT DIAGRAM- CROSS OVERS	SHEET 186	E

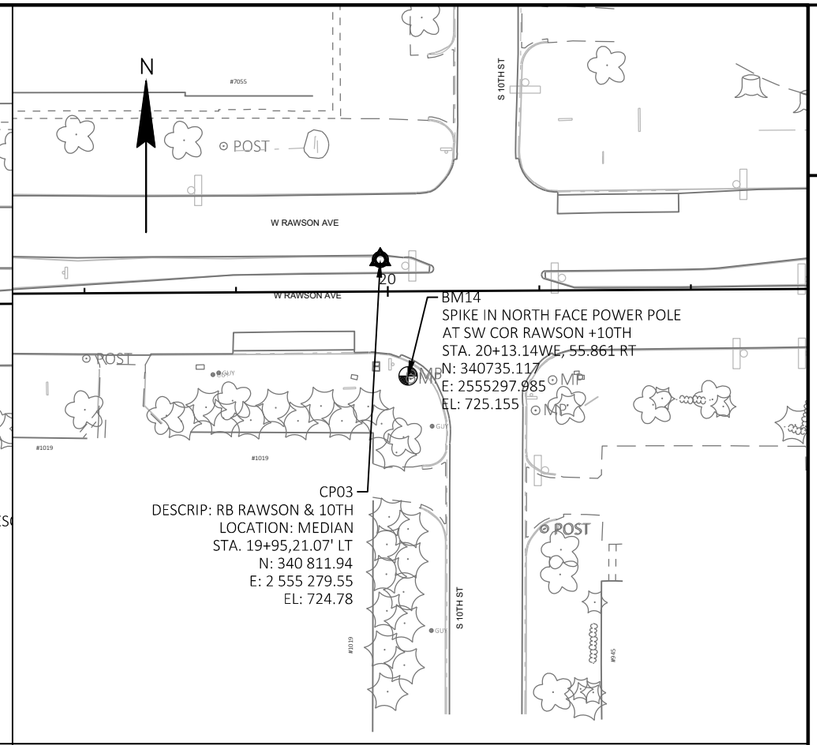
FILE NAME : \\W3027S02\DPPI$\DPW PROFESSIONAL\DATA\HIGHWAY OPERATIONS CONTROL FILE\CENTRAL FILES\2010-2014\CTH BB - W. RAWSON AVE\2050-08-01 S 13TH ST TO W HOWELL AVE\DESIGN\PLANS\2050080101_ALIGNMENT_CROSSOVERS.DWG
LAYOUT NAME - 01

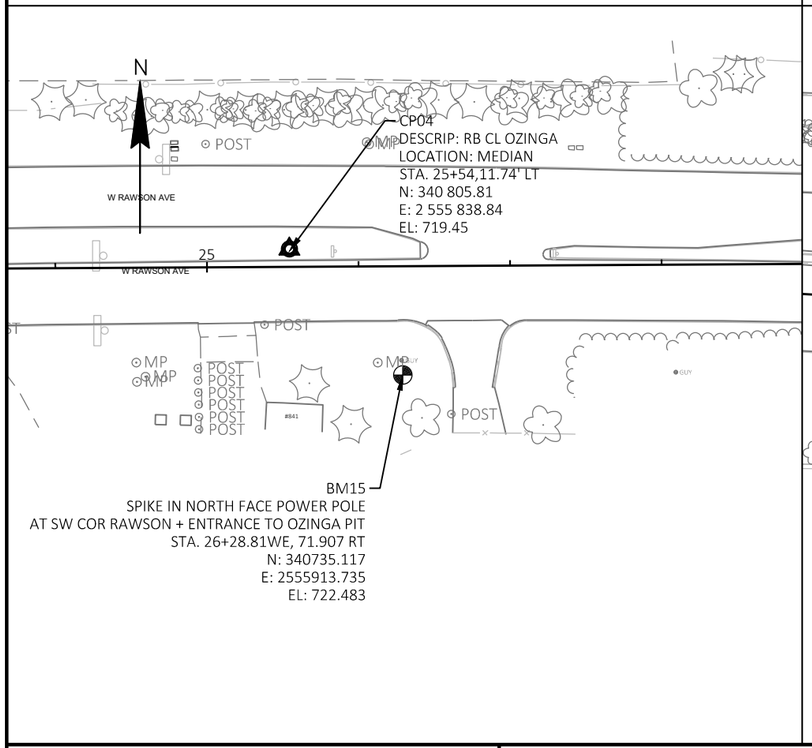
PLOT BY : HILLIARD, MARC PLOT NAME : PLOT SCALE : 1 IN:200 FT

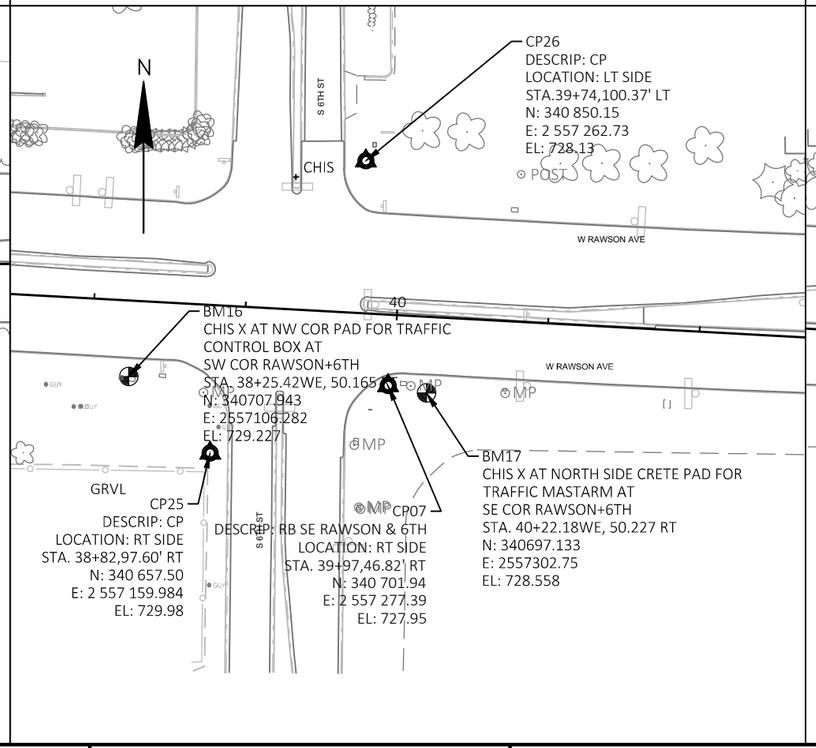
WISDOT/CADDS SHEET 42

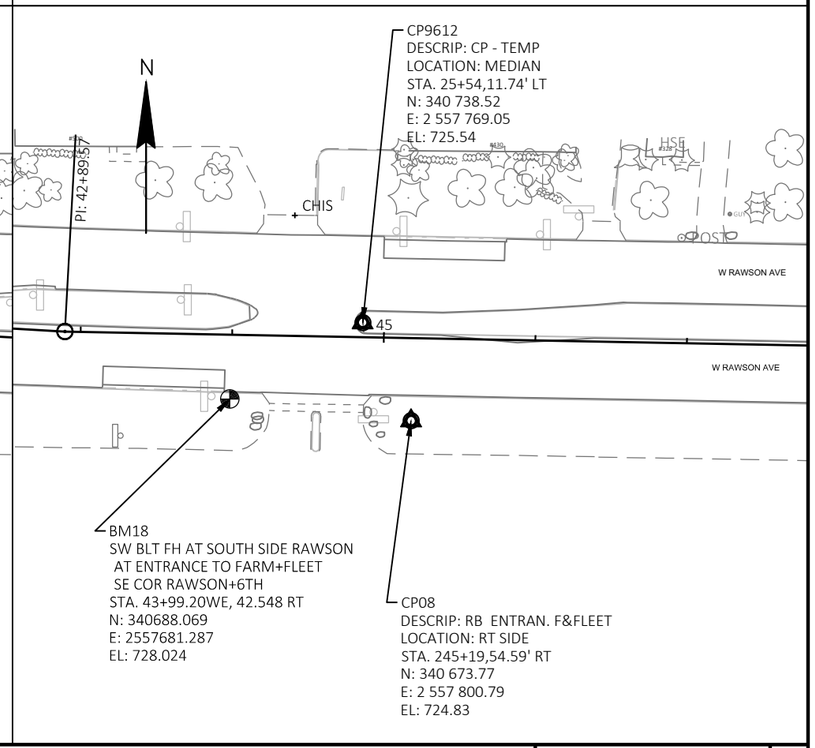






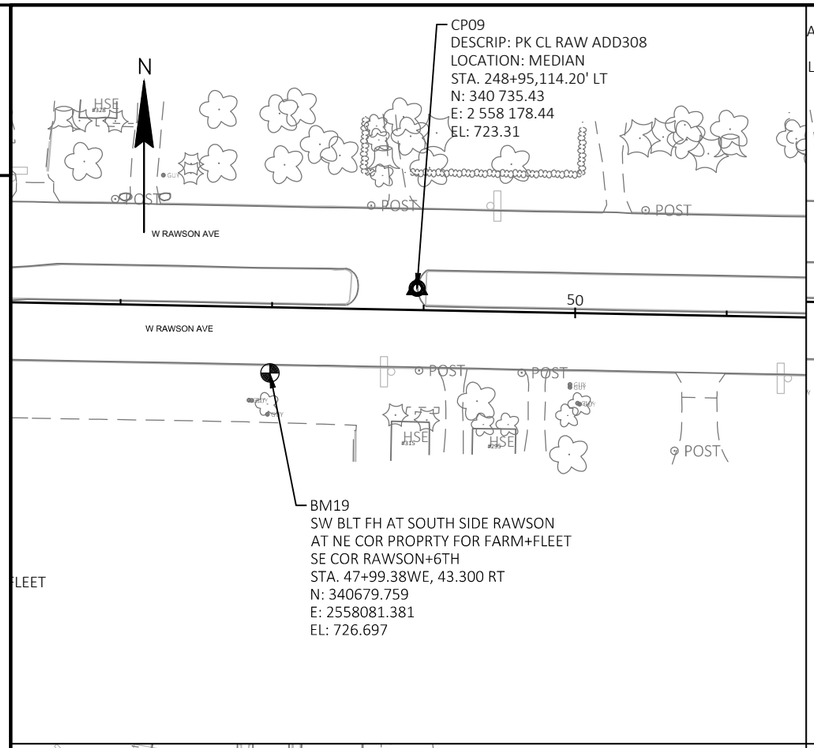


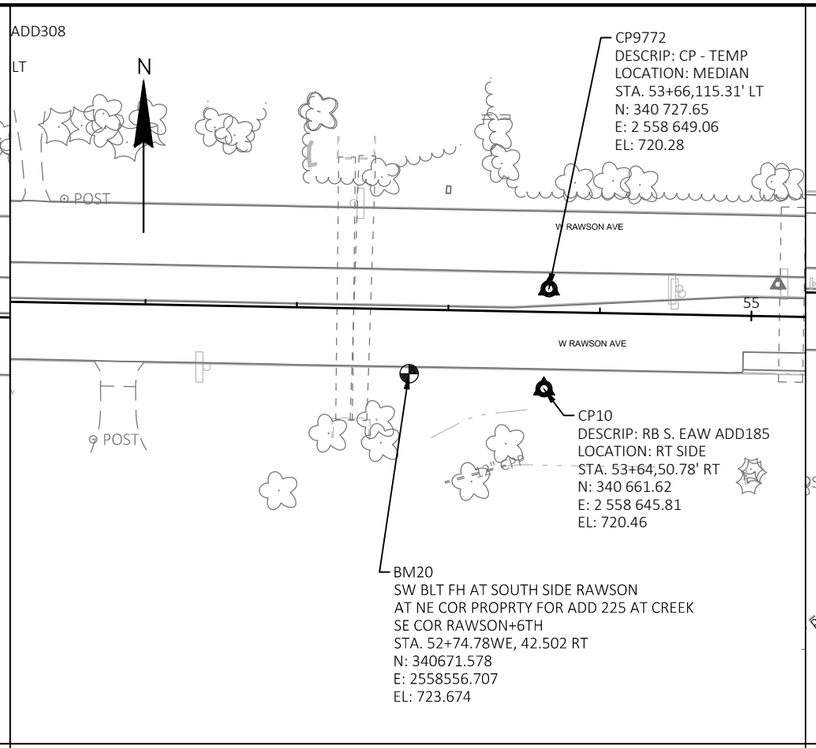


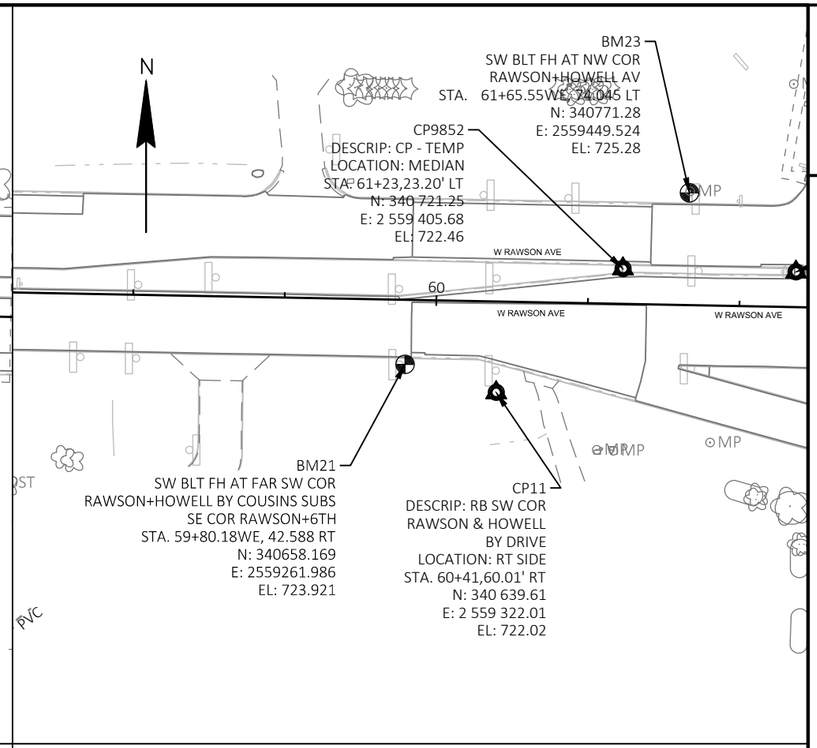


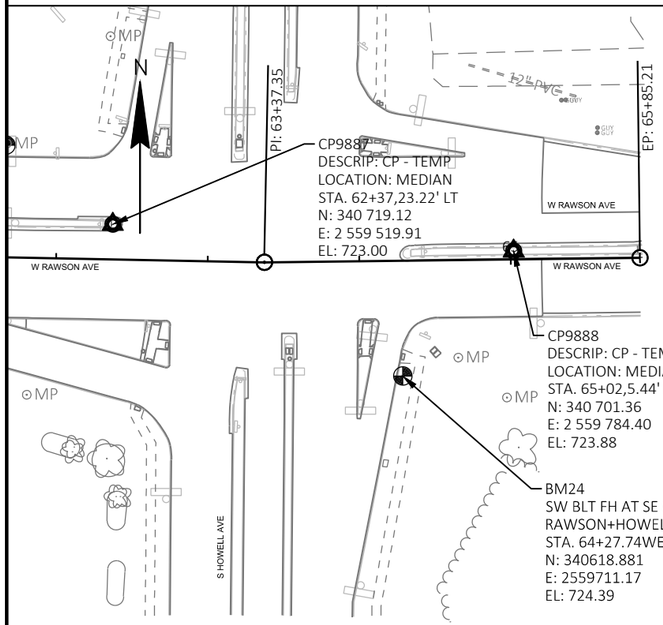
PROJECT NO: 2050-08-71	HWY: CTH BB	COUNTY: MILWAUKEE	ALIGNMENT LAYOUT SURVEY CONTROL	SHEET 187	E

2









PROJECT NO: 2050-08-71	HWY: CTH BB	COUNTY: MILWAUKEE	ALIGNMENT LAYOUT SURVEY CONTROL	SHEET 188	E

FILE NAME : \\W3027S02\DPPIS\DPW PROFESSIONAL\DATA\HIGHWAY OPERATIONS CONTROL FILE\CENTRAL FILES\2010-2014\CTH BB - W. RAWSON AVE\2050-08-01 S 13TH ST TO W HOWELL AVE\DESIGN\PLANS\2050-08-71 SURVEY.DWG
LAYOUT NAME - 02
10/30/2012 2:34 PM
PLOT BY : HILLIARD, MARC
PLOT NAME :
PLOT SCALE : ##########
WISDOT/CADDS SHEET 42

Estimate Of Quantities

2050-08-71

Line	Item	Item Description	Unit	Total	Qty
0002	201.0205	Grubbing	STA	10.000	10.000
0004	201.0210	Grubbing	SY	200.000	200.000
0006	204.0100	Removing Concrete Pavement	SY	48,250.000	48,250.000
0008	204.0150	Removing Curb & Gutter	LF	2,450.000	2,450.000
0010	204.0155	Removing Concrete Sidewalk	SY	50.000	50.000
0012	204.0195	Removing Concrete Bases	EACH	47.000	47.000
0014	204.0210	Removing Manholes	EACH	16.000	16.000
0016	204.0220	Removing Inlets	EACH	49.000	49.000
0018	204.0245	Removing Storm Sewer (size) 12. 12 Inch	LF	2,600.000	2,600.000
0020	204.0245	Removing Storm Sewer (size) 18. 18-Inch	LF	220.000	220.000
0022	204.0245	Removing Storm Sewer (size) 24. 24-Inch	LF	80.000	80.000
0024	204.9060.S	Removing (item description) 01. Traffic Signal Equipment at CTH V & CTH BB	EACH	1.000	1.000
0026	204.9060.S	Removing (item description) 02. Traffic Signal Equipment at S 10th St & CTH BB	EACH	1.000	1.000
0028	204.9060.S	Removing (item description) 03. Traffic Signal Equipment at S 6th St & CTH BB	EACH	1.000	1.000
0030	205.0100	Excavation Common	CY	48,600.000	48,600.000
0032	205.0501.S	Excavation, Hauling, and Disposal of Petroleum Contaminated Soil	TON	1,100.000	1,100.000
0034	206.2001	Excavation for Structures Culverts (structure) 01. B-40-389	EACH	1.000	1.000
0036	213.0100	Finishing Roadway (project) 01. 2050-08-71	EACH	1.000	1.000
0038	305.0110	Base Aggregate Dense 3/4-Inch	TON	80.000	80.000
0040	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	28,560.000	28,560.000
0042	305.0130	Base Aggregate Dense 3-Inch	TON	8,000.000	8,000.000
0044	415.0100	Concrete Pavement 10-Inch	SY	53,000.000	53,000.000
0046	415.0210	Concrete Pavement Gaps	EACH	5.000	5.000
0048	416.0610	Drilled Tie Bars	EACH	100.000	100.000
0050	416.0620	Drilled Dowel Bars	EACH	150.000	150.000
0052	455.0605	Tack Coat	GAL	460.000	460.000
0054	460.2000	Incentive Density HMA Pavement	DOL	70.000	70.000
0056	460.6223	HMA Pavement 3 MT 58-28 S	TON	150.000	150.000
0058	460.6224	HMA Pavement 4 MT 58-28 S	TON	60.000	60.000
0060	465.0120	Asphaltic Surface Driveways and Field Entrances	TON	170.000	170.000
0062	465.0125	Asphaltic Surface Temporary	TON	670.000	670.000
0064	495.1000.S	Cold Patch	TON	5.000	5.000
0066	502.4205	Adhesive Anchors No. 5 Bar	EACH	50.000	50.000
0068	504.0100	Concrete Masonry Culverts	CY	2.000	2.000
0070	505.0400	Bar Steel Reinforcement HS Structures	LB	190.000	190.000
0072	509.1500	Concrete Surface Repair	SF	20.000	20.000
0074	520.1012	Apron Endwalls for Culvert Pipe 12-Inch	EACH	1.000	1.000
0076	520.8000	Concrete Collars for Pipe	EACH	10.000	10.000
0078	601.0319	Concrete Curb & Gutter 19-Inch	LF	1,200.000	1,200.000
0080	601.0331	Concrete Curb & Gutter 31-Inch	LF	21,730.000	21,730.000
0082	601.0600	Concrete Curb Pedestrian	LF	1,100.000	1,100.000
0084	602.0410	Concrete Sidewalk 5-Inch	SF	76,500.000	76,500.000
0086	602.0420	Concrete Sidewalk 7-Inch	SF	6,000.000	6,000.000
0088	602.0515	Curb Ramp Detectable Warning Field Natural Patina	SF	270.000	270.000
0090	602.0615	Curb Ramp Detectable Warning Field Radial Natural Patina	SF	200.000	200.000
0092	602.0815	Concrete Driveway 7-Inch	SY	550.000	550.000
0094	602.0865	Concrete Driveway HES 7-Inch	SY	150.000	150.000
0096	606.0200	Riprap Medium	CY	26.000	26.000
0098	608.0315	Storm Sewer Pipe Reinforced Concrete Class III 15-Inch	LF	430.000	430.000

Estimate Of Quantities

2050-08-71

Line	Item	Item Description	Unit	Total	Qty
0100	608.0318	Storm Sewer Pipe Reinforced Concrete Class III 18-Inch	LF	640.000	640.000
0102	608.0324	Storm Sewer Pipe Reinforced Concrete Class III 24-Inch	LF	210.000	210.000
0104	608.0512	Storm Sewer Pipe Reinforced Concrete Class V 12-Inch	LF	1,880.000	1,880.000
0106	608.3012	Storm Sewer Pipe Class III-A 12-Inch	LF	35.000	35.000
0108	611.0420	Reconstructing Manholes	EACH	12.000	12.000
0110	611.0430	Reconstructing Inlets	EACH	10.000	10.000
0112	611.0612	Inlet Covers Type C	EACH	13.000	13.000
0114	611.1004	Catch Basins 4-FT Diameter	EACH	69.000	69.000
0116	611.2004	Manholes 4-FT Diameter	EACH	11.000	11.000
0118	611.2005	Manholes 5-FT Diameter	EACH	4.000	4.000
0120	611.3225	Inlets 2x2.5-FT	EACH	9.000	9.000
0122	611.8110	Adjusting Manhole Covers	EACH	20.000	20.000
0124	611.8115	Adjusting Inlet Covers	EACH	12.000	12.000
0126	611.8120.S	Cover Plates Temporary	EACH	10.000	10.000
0128	616.0206	Fence Chain Link 6-FT	LF	360.000	360.000
0130	619.1000	Mobilization	EACH	1.000	1.000
0132	620.0300	Concrete Median Sloped Nose	SF	1,500.000	1,500.000
0134	624.0100	Water	MGAL	50.000	50.000
0136	625.0100	Topsoil	SY	13,000.000	13,000.000
0138	628.1504	Silt Fence	LF	1,000.000	1,000.000
0140	628.1520	Silt Fence Maintenance	LF	1,000.000	1,000.000
0142	628.1905	Mobilizations Erosion Control	EACH	4.000	4.000
0144	628.1910	Mobilizations Emergency Erosion Control	EACH	4.000	4.000
0146	628.2008	Erosion Mat Urban Class I Type B	SY	12,000.000	12,000.000
0148	628.6510	Soil Stabilizer Type B	ACRE	3.600	3.600
0150	628.7005	Inlet Protection Type A	EACH	5.000	5.000
0152	628.7010	Inlet Protection Type B	EACH	70.000	70.000
0154	628.7015	Inlet Protection Type C	EACH	5.000	5.000
0156	628.7020	Inlet Protection Type D	EACH	15.000	15.000
0158	628.7504	Temporary Ditch Checks	LF	5.000	5.000
0160	628.7555	Culvert Pipe Checks	EACH	5.000	5.000
0162	628.7570	Rock Bags	EACH	60.000	60.000
0164	629.0210	Fertilizer Type B	CWT	7.000	7.000
0166	630.0130	Seeding Mixture No. 30	LB	250.000	250.000
0168	630.0200	Seeding Temporary	LB	10.000	10.000
0170	630.0500	Seed Water	MGAL	300.000	300.000
0172	631.0300	Sod Water	MGAL	50.000	50.000
0174	631.1000	Sod Lawn	SY	1,600.000	1,600.000
0176	634.0811	Posts Tubular Steel 2x2-Inch X 11-FT	EACH	63.000	63.000
0178	634.0812	Posts Tubular Steel 2x2-Inch X 12-FT	EACH	38.000	38.000
0180	634.0814	Posts Tubular Steel 2x2-Inch X 14-FT	EACH	8.000	8.000
0182	637.2210	Signs Type II Reflective H	SF	820.210	820.210
0184	637.2215	Signs Type II Reflective H Folding	SF	103.600	103.600
0186	637.2230	Signs Type II Reflective F	SF	95.000	95.000
0188	637.2235	Signs Type II Reflective F Folding	SF	27.000	27.000
0190	638.2602	Removing Signs Type II	EACH	116.000	116.000
0192	638.3000	Removing Small Sign Supports	EACH	60.000	60.000
0194	643.0300	Traffic Control Drums	DAY	185,000.000	185,000.000
0196	643.0420	Traffic Control Barricades Type III	DAY	30,000.000	30,000.000

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Line	Item	Item Description	Unit	Total	Qty
0198	643.0500	Traffic Control Flexible Tubular Marker Posts	EACH	1,200.000	1,200.000
0200	643.0600	Traffic Control Flexible Tubular Marker Bases	EACH	1,200.000	1,200.000
0202	643.0705	Traffic Control Warning Lights Type A	DAY	60,000.000	60,000.000
0204	643.0715	Traffic Control Warning Lights Type C	DAY	30,000.000	30,000.000
0206	643.0800	Traffic Control Arrow Boards	DAY	1,500.000	1,500.000
0208	643.0900	Traffic Control Signs	DAY	56,000.000	56,000.000
0210	643.0920	Traffic Control Covering Signs Type II	EACH	10.000	10.000
0212	643.1050	Traffic Control Signs PCMS	DAY	150.000	150.000
0214	643.3180	Temporary Marking Line Removable Tape 6-Inch	LF	50,000.000	50,000.000
0216	643.3280	Temporary Marking Line Removable Tape 10-Inch	LF	6,000.000	6,000.000
0218	643.3550	Temporary Marking Arrow Removable Tape	EACH	35.000	35.000
0220	643.3650	Temporary Marking Word Removable Tape	EACH	10.000	10.000
0222	643.3850	Temporary Marking Stop Line Removable Tape 18-Inch	LF	300.000	300.000
0224	643.3950	Temporary Marking Diagonal Removable Tape 12-Inch	LF	200.000	200.000
0226	643.5000	Traffic Control	EACH	1.000	1.000
0228	644.1440	Temporary Pedestrian Surface Matting	SF	50.000	50.000
0230	644.1601	Temporary Pedestrian Curb Ramp	DAY	120.000	120.000
0232	644.1605	Temporary Pedestrian Detectable Warning Field	SF	50.000	50.000
0234	644.1810	Temporary Pedestrian Barricade	LF	200.000	200.000
0236	645.0120	Geotextile Type HR	SY	89.000	89.000
0238	645.0130	Geotextile Type R	SY	70.000	70.000
0240	645.0220	Geogrid Type SR	SY	6,000.000	6,000.000
0242	646.2020	Marking Line Epoxy 6-Inch	LF	21,000.000	21,000.000
0244	646.4020	Marking Line Epoxy 10-Inch	LF	8,000.000	8,000.000
0246	646.5020	Marking Arrow Epoxy	EACH	60.000	60.000
0248	646.5120	Marking Word Epoxy	EACH	28.000	28.000
0250	646.6120	Marking Stop Line Epoxy 18-Inch	LF	1,000.000	1,000.000
0252	646.6220	Marking Yield Line Epoxy 18-Inch	EACH	14.000	14.000
0254	646.6466	Cold Weather Marking Epoxy 6-Inch	LF	7,000.000	7,000.000
0256	646.6470	Cold Weather Marking Epoxy 10-Inch	LF	7,500.000	7,500.000
0258	646.7120	Marking Diagonal Epoxy 12-Inch	LF	3,000.000	3,000.000
0260	646.7420	Marking Crosswalk Epoxy Transverse Line 6-Inch	LF	3,500.000	3,500.000
0262	646.9000	Marking Removal Line 4-Inch	LF	900.000	900.000
0264	646.9100	Marking Removal Line 8-Inch	LF	900.000	900.000
0266	646.9200	Marking Removal Line Wide	LF	600.000	600.000
0268	646.9300	Marking Removal Special Marking	EACH	15.000	15.000
0270	650.4000	Construction Staking Storm Sewer	EACH	94.000	94.000
0272	650.4500	Construction Staking Subgrade	LF	10,500.000	10,500.000
0274	650.5000	Construction Staking Base	LF	140.000	140.000
0276	650.5500	Construction Staking Curb Gutter and Curb & Gutter	LF	360.000	360.000
0278	650.7000	Construction Staking Concrete Pavement	LF	10,500.000	10,500.000
0280	650.8501	Construction Staking Electrical Installations (project) 01. 2050-08-71	EACH	1.000	1.000
0282	650.9000	Construction Staking Curb Ramps	EACH	26.000	26.000
0284	650.9500	Construction Staking Sidewalk (project) 01. 2050-08-71	EACH	1.000	1.000
0286	650.9911	Construction Staking Supplemental Control (project) 01. 2050-08-71	EACH	2.000	2.000
0288	650.9920	Construction Staking Slope Stakes	LF	10,500.000	10,500.000
0290	652.0225	Conduit Rigid Nonmetallic Schedule 40 2-Inch	LF	12,058.000	12,058.000
0292	652.0235	Conduit Rigid Nonmetallic Schedule 40 3-Inch	LF	1,500.000	1,500.000
0294	652.0700.S	Install Conduit into Existing Item	EACH	15.000	15.000

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Line	Item	Item Description	Unit	Total	Qty
0296	652.0800	Conduit Loop Detector	LF	3,000.000	3,000.000
0298	653.0135	Pull Boxes Steel 24x36-Inch	EACH	8.000	8.000
0300	653.0140	Pull Boxes Steel 24x42-Inch	EACH	9.000	9.000
0302	653.0900	Adjusting Pull Boxes	EACH	8.000	8.000
0304	653.0905	Removing Pull Boxes	EACH	16.000	16.000
0306	654.0101	Concrete Bases Type 1	EACH	17.000	17.000
0308	654.0102	Concrete Bases Type 2	EACH	2.000	2.000
0310	654.0105	Concrete Bases Type 5	EACH	38.000	38.000
0312	655.0210	Cable Traffic Signal 3-14 AWG	LF	3,700.000	3,700.000
0314	655.0230	Cable Traffic Signal 5-14 AWG	LF	2,300.000	2,300.000
0316	655.0240	Cable Traffic Signal 7-14 AWG	LF	3,600.000	3,600.000
0318	655.0260	Cable Traffic Signal 12-14 AWG	LF	4,200.000	4,200.000
0320	655.0280	Cable Traffic Signal 19-14 AWG	LF	200.000	200.000
0322	655.0305	Cable Type UF 2-12 AWG Grounded	LF	1,500.000	1,500.000
0324	655.0515	Electrical Wire Traffic Signals 10 AWG	LF	3,700.000	3,700.000
0326	655.0610	Electrical Wire Lighting 12 AWG	LF	2,000.000	2,000.000
0328	655.0700	Loop Detector Lead In Cable	LF	11,000.000	11,000.000
0330	655.0800	Loop Detector Wire	LF	9,000.000	9,000.000
0332	655.0900	Traffic Signal EVP Detector Cable	LF	3,000.000	3,000.000
0334	657.0100	Pedestal Bases	EACH	17.000	17.000
0336	657.0255	Transformer Bases Breakaway 11 1/2-Inch Bolt Circle	EACH	2.000	2.000
0338	657.0315	Poles Type 4	EACH	2.000	2.000
0340	657.0405	Traffic Signal Standards Aluminum 3.5-FT	EACH	2.000	2.000
0342	657.0425	Traffic Signal Standards Aluminum 15-FT	EACH	5.000	5.000
0344	657.0430	Traffic Signal Standards Aluminum 10-FT	EACH	10.000	10.000
0346	657.0614	Luminaire Arms Single Member 4-Inch Clamp 8-FT	EACH	2.000	2.000
0348	658.0173	Traffic Signal Face 3S 12-Inch	EACH	20.000	20.000
0350	658.0174	Traffic Signal Face 4S 12-Inch	EACH	11.000	11.000
0352	658.0416	Pedestrian Signal Face 16-Inch	EACH	24.000	24.000
0354	658.5070	Signal Mounting Hardware (location) 01. CTH V & CTH BB	EACH	1.000	1.000
0356	658.5070	Signal Mounting Hardware (location) 02. S 10th St & CTH BB	EACH	1.000	1.000
0358	658.5070	Signal Mounting Hardware (location) 03. S. 6th St & CTH BB	EACH	1.000	1.000
0360	659.1125	Luminaires Utility LED C	EACH	2.000	2.000
0362	661.0201	Temporary Traffic Signals for Intersections (location) 01. S 6th St & CTH BB	EACH	1.000	1.000
0364	673.0110	Communication Vault Type Round	EACH	12.000	12.000
0366	674.0300	Remove Cable	LF	2,500.000	2,500.000
0368	678.0200	Fiber Optic Splice Enclosure	EACH	4.000	4.000
0370	678.0300	Fiber Optic Splice	EACH	16.000	16.000
0372	678.0400	Fiber Optic Termination	EACH	12.000	12.000
0374	690.0150	Sawing Asphalt	LF	700.000	700.000
0376	690.0250	Sawing Concrete	LF	3,365.000	3,365.000
0378	715.0502	Incentive Strength Concrete Structures	DOL	5,000.000	5,000.000
0380	715.0715	Incentive Flexural Strength Concrete Pavement	DOL	5,300.000	5,300.000
0382	740.0440	Incentive IRI Ride	DOL	5,300.000	5,300.000
0384	ASP.1T0A	On-the-Job Training Apprentice at $5.00/HR	HRS	3,000.000	3,000.000
0386	ASP.1T0G	On-the-Job Training Graduate at $5.00/HR	HRS	7,200.000	7,200.000
0388	SPV.0035	Special 01. Backfill Slurry	CY	250.000	250.000
0390	SPV.0060	Special 01. Inlet Covers Type 57	EACH	86.000	86.000
0392	SPV.0060	Special 02. Adjusting Water Valve Boxes	EACH	15.000	15.000

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Line	Item	Item Description	Unit	Total	Qty
0394	SPV.0060	Special 03. Watermain Protection	EACH	4.000	4.000
0396	SPV.0060	Special 04. Cleaning Drainage Structures and Pipes	EACH	30.000	30.000
0398	SPV.0060	Special 05. Utility Line Opening (ULO)	EACH	8.000	8.000
0400	SPV.0060	Special 06. Field Facilities Office Space	EACH	1.000	1.000
0402	SPV.0060	Special 08. Temporary Mailboxes	EACH	70.000	70.000
0404	SPV.0060	Special 10. Section Corner Monuments	EACH	1.000	1.000
0406	SPV.0060	Special 11. Internal/External Sanitary Manhole Seal	EACH	10.000	10.000
0408	SPV.0060	Special 12. Cored Holes 6-Inch	EACH	40.000	40.000
0410	SPV.0060	Special 14. Construction Dewatering	EACH	2.000	2.000
0412	SPV.0060	Special 30. Cabinet Modification	EACH	3.000	3.000
0414	SPV.0060	Special 31. Accessible Pedestrian Push Button System, 8 Buttons	EACH	3.000	3.000
0416	SPV.0060	Special 32. Adjusting Communication Vault	EACH	1.000	1.000
0418	SPV.0060	Special 33. Adjusting Communication Vault Round	EACH	2.000	2.000
0420	SPV.0060	Special 34. Install Communications Conduit into Pumping Station	EACH	1.000	1.000
0422	SPV.0060	Special 40. Strapping B-40-389	EACH	4.000	4.000
0424	SPV.0060	Special 41. Temporary Water Diversion Culvert B-40-389	EACH	1.000	1.000
0426	SPV.0090	Special 30. Pull and Coil Existing Fiber Optic Cable	LF	550.000	550.000
0428	SPV.0090	Special 31. Furnish and Install 12 SM Fiber Optic Communications Cable	LF	3,000.000	3,000.000
0430	SPV.0090	Special 32. Tracer Wire, 10 AWG	LF	2,500.000	2,500.000
0432	SPV.0090	Special 33. Remove and Reinstall Video Detection Cable	LF	1,500.000	1,500.000

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GRUBBING

CATEGORY	STATION	OFFSET	201.0220 GRUBBING ID
RAWSON AVE			
0010	52+54	74' RT	36
0010		UNDISTRIBUTED	24
		TOTAL 0010	**60**

REMOVING CONCRETE BASES

CATEGORY	LOCATION	204.0195 * REMOVING CONCRETE BASES EACH
0010	CTH V (S. 13TH ST.) & CTH BB (W. RAWSON AVE.)	
0010	SB1	1
0010	SB5	1
0010	SB7	1
0010	S. 10TH. & CTH BB (W. RAWSON AVE.)	
0010	SB5	1
0010	SB7	1
0010	S. 6TH. & CTH BB (W. RAWSON AVE.)	
0010	SB1	1
0010	SB6	1
0010	FLASHER CONCRETE BASES	
0010	480-FT EAST OF 10TH ST, IN MEDIAN	1
0010	80-FT WEST OF 6TH ST, NW QUAD	1
	TOTAL 0010	**9**

*ADDITIONAL QUANTITIES ELSEWHERE

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REMOVING CONCRETE PAVEMENT

CATEGORY	STATION	TO	STATION	204.0100 REMOVING CONCRETE PAVEMENT SY				204.0150 REMOVING CURB & GUTTER LF				204.0155 REMOVING CONCRETE SIDEWALK SY			
				SY	SY	SY	SY	LF	LF	LF	LF	SY	SY	SY	SY
				STAGE 1	STAGE 2	STAGE 3	STAGE 4	STAGE 1	STAGE 2	STAGE 3	STAGE 4	STAGE 1	STAGE 2	STAGE 3	STAGE 4
0010	11+10	-	15+83	-	-	-	-	656	-	-	-	-	-	-	-
0010	56+68	-	61+92	-	-	-	-	1070	-		-	-	-	-	-
0010	9+00	-	10+00	-	-	-	-	-	-	-			13	-	-
0010	10+00	-	16+00	318	1,355	1,898	-	-	-	-	-	-		27	-
0010	16+00	-	22+00	-	3,384	2,630	-	-	168	120	-	-	-	-	-
0010	22+00	-	28+00	-	3,035	2,829	-	-	-	-	-	-	-	-	-
0010	28+00	-	34+00	-	2,653	2,749	-	-	-	-	-	-	-	-	-
0010	34+00	-	40+00	-	3,708	2,699	-	-	372	202	-	-	-	-	-
0010	40+00	-	46+00	-	2,999	3,080	-	-	-	-	-	-	-	-	-
0010	46+00	-	52+00	-	2,823	2,724	-	-	-	-	-	-	-	-	-
0010	52+00	-	58+00	-	3,307	2,657	-	-	145	83	-	-	-	-	-
0010	58+00	-	64+00	-	1,640	1,550	-	-	-	64	-	-	-	-	-
0010			UNDISTRIBUTED	32	96	84	-	24	15	31	-	-	7	3	-
			SUBTOTAL	350	25,000	22,900	-	1,750	700	500	-	-	20	30	-
			TOTAL 0010		**48250**				**2450**				**50**		

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STORM SEWER STRUCTURE REMOVALS

CATEGORY	STATION	OFFSET	204.0210 REMOVING MANHOLES EACH	204.0220 REMOVING INLETS EACH	REMARKS
0010	11+05	87' LT	-	1	STAGE 3
0010	13+46	25' LT	-	1	STAGE 3
0010	14+78	65' LT	-	1	STAGE 3
0010	15+66	37' RT	-	1	STAGE 2
0010	15+70	27' LT	-	1	STAGE 2
0010	15+71	14' LT	1	-	STAGE 2
0010	17+42	38' RT	-	1	STAGE 2
0010	17+44	64' LT	-	1	STAGE 3
0010	19+86	37' RT	-	1	STAGE 2
0010	19+98	11' LT	-	1	STAGE 2
0010	19+98	25' LT	-	1	STAGE 3
0010	20+18	64' LT	-	1	STAGE 3
0010	23+48	2' LT	-	1	STAGE 2
0010	23+48	15' LT	1	-	STAGE 3
0010	23+48	27' LT	-	1	STAGE 3
0010	23+48	66' LT	-	1	STAGE 3
0010	23+49	37' RT	-	1	STAGE 2
0010	26+17	15' LT	1	-	STAGE 2
0010	26+17	65' LT	-	1	STAGE 3
0010	26+18	35' RT	-	1	STAGE 2
0010	29+69	38' RT	-	1	STAGE 2
0010	29+69	58' LT	-	1	STAGE 3
0010	29+98	38' RT	-	1	STAGE 2
0010	29+98	1' LT	1	-	STAGE 2
0010	29+98	58' LT	-	1	STAGE 3
0010	29+99	10' LT	1	-	STAGE 2
0010	29+99	19' LT	-	1	STAGE 3
0010	30+14	12' RT	1	-	STAGE 2
0010	30+26	58' LT	-	1	STAGE 3
0010	30+28	38' RT	-	1	STAGE 2
0010	30+35	20' LT	-	1	STAGE 3
0010	30+36	1' LT	-	1	STAGE 2
0010	30+98	13' RT	1	-	STAGE 2
0010	30+98	10' LT	1	-	STAGE 3
0010	30+99	37' RT	1	-	STAGE 2
0010	31+75	37' RT	1	-	STAGE 2
0010	32+38	57' LT	-	1	STAGE 3
0010	32+39	38' RT	-	1	STAGE 2

(CONTINUED)

STORM SEWER STRUCTURE REMOVALS (CONTINUED)

CATEGORY	STATION	OFFSET	204.0210 REMOVING MANHOLES EACH	204.0220 REMOVING INLETS EACH	REMARKS
0010	35+97	65' LT	-	1	STAGE 3
0010	35+98	36' RT	-	1	STAGE 2
0010	35+98	27' LT	1	-	STAGE 2
0010	36+70	20' LT	-	1	STAGE 2
0010	42+98	35' RT	-	1	STAGE 2
0010	43+00	67' LT	-	1	STAGE 3
0010	45+99	37' RT	-	1	STAGE 2
0010	45+99	66' LT	-	1	STAGE 3
0010	48+29	37' RT	-	1	STAGE 2
0010	48+39	0'	1	-	STAGE 2
0010	48+43	28' LT	1	-	STAGE 2
0010	48+43	66' LT	-	1	STAGE 3
0010	51+99	37' RT	-	1	STAGE 2
0010	52+00	66' LT	-	1	STAGE 3
0010	54+88	2' LT	1	-	STAGE 2
0010	54+88	28' LT	-	1	STAGE 2
0010	55+54	12' LT	-	1	STAGE 2
0010	55+78	37' RT	-	1	STAGE 2
0010	55+79	65' LT	-	1	STAGE 3
0010	56+76	37' RT	-	1	STAGE 2
0010	56+77	66' LT	-	1	STAGE 3
0010	57+10	1' LT	-	1	STAGE 2
0010	57+10	17' LT	1	-	STAGE 2
0010	57+10	27' LT	1	-	STAGE 2
0010	59+92	37' RT	-	1	STAGE 2
0010	59+92	3' LT	-	1	STAGE 2
0010	59+92	65' LT	-	1	STAGE 3
0010	UNDISTRIBUTED		-	-	
	TOTAL 0010		**16**	**49**	

STORM SEWER PIPE REMOVALS

CATEGORY	STATION	TO	STATION	204.0245.12 REMOVING STORM SEWER (SIZE) (12. 12 INCH) LF	204.0245.18 REMOVING STORM SEWER (SIZE) (18. 18 INCH) LF	204.0245.24 REMOVING STORM SEWER (SIZE) (24. 24 INCH) LF
0010	10+00	-	16+00	169	-	-
0010	16+00	-	22+00	281	-	-
0010	22+00	-	28+00	565	-	-
0010	28+00	-	34+00	766	108	**75**
0010	34+00	-	40+00	101	103	-
0010	40+00	-	46+00	205	-	-
0010	46+00	-	52+00	66	-	-
0010	52+00	-	58+00	314	-	-
0010	58+00	-	64+00	58	-	-
0010			UNDISTRIBUTED	75	9	5
			TOTAL 0010	**2,600**	**220**	**80**

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)	205.0500 MARSH EXCAVATION (6)	205.0200 ROCK EXCAVATION (7)	REDUCED MARSH IN FILL (8) FACTOR 1.00	REDUCED EBS IN FILL (9) FACTOR 1.00	EXPANDED MARSH BACKFILL (10) FACTOR 1.00	EXPANDED EBS BACKFILL (11) FACTOR 1.00	EXPANDED ROCK (12) FACTOR 1.00	UNEXPANDED FILL	EXPANDED FILL (13) FACTOR 1.00	MASS ORDINATE +/- (14)	WASTE	208.0100 BORROW	COMMENT
DIVISION 1																			
STAGE 1 (XOVER-E)	200+00/205+25		596	104	0	596	0	0	0	104	0	104	0	0	-104	700	700	0	
STAGE 1 (XOVER-W)	100+00.213/104+75		125	75	52	73	0	0	0	75	0	75	0	0	-75	148	148	0	
DIVISION 1 SUBTOTAL			721	179	52	669	0	0	0	179	0	179	0	0	-179	848	848	0	
DIVISION 2																			
STAGE 2 (EB)	13+06.75/61+38.6	EASTBOUND	19,884	4,664	4,340	15,544	0	0	0	4,664	0	4,664	0	315	-4,349	19,893	19,893	0	
UNDISTRIBUTED			4,116	336															
DIVISION 2 SUBTOTAL			24,000	5,000	4,340	15,544	0	0	0	4,664	0	4,664	0	315	-4,349	19,893	19,893	0	
DIVISION 3																			
STAGE 3 (WB)	10+37.85/61+41.4	WESTBOUND	12,351	2,736	3,590	8,761	0	0	0	2,736	0	2,736	0	55	-2,681	11,442	11,442	0	
UNDISTRIBUTED			2,649	264															
DIVISION 3 SUBTOTAL			15,000	3,000	3,590	8,761	0	0	0	2,736	0	2,736	0	55	-2,681	11,442	11,442	0	
DIVISION 4																			
STAGE 4 (XOVER-E)	200+00/205+25		464	36	0	464	0	0	0	36	0	36	0	0	-36	500	500	0	
STAGE 4 (XOVER-W)	100+00.213/104+75		125	75	0	125	0	0	0	75	0	75	0	0	-75	200	200	0	
DIVISION 4 SUBTOTAL			589	111	0	589	0	0	0	111	0	111	0	0	-111	700	700	0	
GRAND TOTAL			40,310	8,290	7,982	25,563	0	0	0	7,690	0	7,690	0	370	-7,320	32,883	32,883	0	
TOTAL COMMON EXC			48,600																

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 3-INCH BASE AGGREGATE DENSE. NOTE: THIS IS DESIGNERS CHOICE, CAN BE BACKFILLED WITH BORROW, OR CUT AS WELL.

(4) SALVAGED/UNUSABLE PAVEMENT MATERIAL

5) AVAILABLE MATERIAL = CUT - SALVAGED/UNUSUABLE PAVEMENT MATERIAL

(6) MARSH EXCAVATION - TO BE BACKFILLED WITH 3-INCH BASE AGGREAGTE DENSE. NOTE: THIS IS DESIGNERS CHOICE, CAN BE BACKFILLED WITH BORROW, OR CUT AS WELL. ITEM NUMBER 205.0500

(7) ROCK EXCAVATION ITEM NUMBER 205.0200

(8) REDUCED MARSH IN FILL - EXCAVATED MARSH MATERIAL IS USUABLE IN FILLS OUTSIDE THE 1:1 SLOPE. MARSH IN FILL REDUCTION FACTOR = X.1X

(9) REDUCED EBS IN FILL - EXCAVATED EBS MATERIAL IS USUABLE IN FILLS OUTSIDE THE 1:1 SLOPE. EBS IN FILL REDUCTION FACTOR = X.2X

(10) EXPANDED MARSH BACKFILL - THIS IS TO BE FILLED WITH 3-INCH BASE AGGREGATE DENSE. MARSH BACKFILL FACTOR = X.3X. ITEM NUMBER 208.1100

(11) EXPANDED EBS BACKFILL - THIS IS TO BE FILLED WITH 3-INCH BASE AGGREGATE DENSE. EBS BACKFILL FACTOR = X.4X. ITEM NUMBER 208.1100

(12) EXPANDED ROCK FACTOR = X.5X

(13) EXPANDED FILL FACTOR = X.6X

DEPENDING ON SELECTIONS: **EXPANDED FILL = (UNEXPANDED FILL - EXPANDED ROCK - REDUCED MARSH - REDUCED EBS) * FILL FACTOR**

OR EXPANDED FILL = (UNEXPANDED FILL - EXPANDED ROCK - REDUCED EBS) * FILL FACTOR

OR EXPANDED FILL = (UNEXPANDED FILL - EXPANDED ROCK - REDUCED MARSH) * FILL FACTOR

OR EXPANDED FILL = (UNEXPANDED FILL - EXPANDED ROCK) * FILL FACTOR

(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.

3

CONTAMINATED SOILS

CATEGORY	STATION	TO	STATION	LOCATION	205.0501.S EXCAVATION, HAULING, AND DISPOSAL OF PETROLEUM CONTAMINATED SOIL TON	REMARKS
0010	15+30	-	16+00	FROM RL TO PROJECT LIMITS RIGHT	730	STAGE 2: CONTAMINATED SOIL LOCATED FROM 3 FT BGS TO 6 FT BGS
0010	34+50WB	-	35+50WB	FROM WB PGL TO PROJECT LIMITS LEFT	45	STAGE 3 AREA 2: CONTAMINATED SOIL LOCATED FROM 1 FT BGS TO 6 FT BGS
0010	35+50WB	-	36+50WB	FROM WB PGL TO PROJECT LIMITS LEFT	106	STAGE 3 AREA 3: CONTAMINATED SOIL LOCATED FROM 1 FT BGS TO 4 FT BGS
0010	36+50WB	-	39+25WB	FROM WB PGL TO PROJECT LIMITS LEFT	198	STAGE 3 AREA 4: CONTAMINATED SOIL LOCATED FROM 1 FT BGS TO MAXIMUM EXCAVATION DEPTH
0010				UNDISTRIBUTED	21	
				TOTAL 0010	**1,100**	

FINISHING ROADWAY

CATEGORY	LOCATION	213.0100.01 FINISHING ROADWAY (PROJECT) (01. 2050-08-71) EACH
0010	W. RAWSON AVE (CTH BB)	1
	TOTAL 0010	**1**

CONCRETE PAVEMENT ITEMS

				305.0120*				305.0130				415.0100				415.0210	416.0610				416.0620				645.0220			
				BASE AGGREGATE DENSE 1 1/4-INCH				BASE AGGREGATE DENSE 3-INCH				CONCRETE PAVEMENT 10-INCH				CONCRETE PAVEMENT GAPS	DRILLED TIE BARS				DRILLED DOWEL BARS				GEOGRID TYPE SR			
CATEGORY	STATION	TO	STATION	TON	TON	TON	TON	TON	TON	TON	TON	SY	SY	SY	SY	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	SY	SY	SY	SY
				STAGE 1	STAGE 2	STAGE 3	STAGE 4	STAGE 1	STAGE 2	STAGE 3	STAGE 4	STAGE 1	STAGE 2	STAGE 3	STAGE 4		STAGE 1	STAGE 2	STAGE 3	STAGE 4	STAGE 1	STAGE 2	STAGE 3	STAGE 4	STAGE 1	STAGE 2	STAGE 3	STAGE 4
0010	10+00	-	16+00	-	650	650	-	-	-	-	-	-	1,621	1,621	-	-	-	45	45	-	-	28	28	-	-	-	-	-
0010	16+00	-	22+00	-	1,300	1,300	-	-	-	-	-	-	3,304	3,304	-	-	-	-	-	-	-	-	-	-	-	-	-	-
0010	22+00	-	28+00	-	1,150	1,150	-	-	600	600	-	-	2,965	2,965	-	-	-	-	-	-	-	-	-	-	-	460	460	-
0010	28+00	-	34+00	-	1,000	1,000	-	-	550	550	-	-	2,450	2,450	-	-	-	-	-	-	-	-	-	-	-	440	440	-
0010	34+00	-	40+00	-	1,300	1,300	-	-	-	-	-	-	3,300	3,300	-	-	-	-	-	-	-	-	-	-	-	-	-	-
0010	40+00	-	46+00	-	1,200	1,200	-	-	575	575	-	-	3,050	3,050	-	-	-	-	-	-	-	-	-	-	-	450	450	-
0010	46+00	-	52+00	-	1,050	1,050	-	-	575	575	-	-	2,600	2,600	-	-	-	-	-	-	-	-	-	-	-	450	450	-
0010	52+00	-	58+00	-	1,200	1,200	-	-	-	-	-	-	3,050	3,050	-	-	-	-	-	-	-	-	-	-	-	-	-	-
0010	58+00	-	64+00	-	650	650	-	-	-	-	-	-	1,650	1,650	-	-	-	-	-	-	-	33	33	-	-	-	-	-
0010			UNDISTRIBUTED		2,250	2,250			1,700	1,700			2,510	2,510		5	-	5	5	-	-	14	14	-	-	1,200	1,200	-
			SUBTOTAL	0	11,750	11,750	0	0	4,000	4,000	0	0	26,500	26,500	0	5	0	50	50	0	0	75	75	0	0	3,000	3,000	0
			TOTAL 0010		**23,500**				**8,000**				**53,000**			**5**		**100**				**150**				**6,000**		

* ADDITIONAL QUANTITIES LISTED ELSEWHERE

ASPHALT PAVEMENT ITEMS

CATEGORY	STATION	TO	STATION	LOCATION	* 305.0120 BASE AGGREGATE DENSE 1 1/4-INCH TON	455.0605 TACK COAT GAL	460.6223 HMA PAVEMENT 3 MT 58-28 S TON	460.6224 HMA PAVEMENT 4 MT 58-28 S TON	465.0125 ASPHALTIC SURFACE TEMPORARY TON
STAGE 1									
0010	11+10	-	15+83	STAGE 1	727	197	-	-	314
0010	56+68	-	61+92	STAGE 1	667	180	-	-	288
0010	16+00	-	22+00	10th St	133	13	26	11	-
0010	34+00	-	40+00	6th St	396	54	108	43	20
0010				UNDISTRIBUTED	277	16	16	6	48
				TOTAL 0010	**2,200**	**460**	**150**	**60**	**670**

DRIVEWAYS

CATEGORY	STATION	TO	STATION	305.0110 BASE AGGREGATE DENSE 3/4-INCH TON	* 305.0120 BASE AGGREGATE DENSE 1 1/4-INCH TON	465.0120 ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES TON	602.0865 CONCRETE DRIVEWAY HES 7-INCH SY	602.0815 CONCRETE DRIVEWAY 7-INCH SY
0010	10+00	-	16+00	0	40	22	0	89
0010	16+00	-	22+00	0	23	16	0	38
0010	22+00	-	28+00	7	43	13	0	140
0010	28+00	-	34+00	0	0	0	0	0
0010	34+00	-	40+00	16	4	0	0	18
0010	40+00	-	46+00	0	36	29	0	42
0010	46+00	-	52+00	36	37	34	0	25
0010	52+00	-	58+00	0	5	5	0	0
0010	58+00	-	64+00	3	27	11	0	77
0010	UNDISTRIBUTED			18	85	40	150	121
	TOTAL 0010			**80**	**300**	**170**	**150**	**550**

* ADDITIONAL QUANTITIES LISTED ELSEWHERE

3

CURB & GUTTER

CATEGORY	STATION	TO	STATION	601.0319 CONCRETE CURB & GUTTER 19-INCH LF STAGE 2	601.0319 CONCRETE CURB & GUTTER 19-INCH LF STAGE 3	601.0331 CONCRETE CURB & GUTTER 31-INCH LF STAGE 2	601.0331 CONCRETE CURB & GUTTER 31-INCH LF STAGE 3	620.0300 CONCRETE MEDIAN SLOPED NOSE SF STAGE 2	620.0300 CONCRETE MEDIAN SLOPED NOSE SF STAGE 3
0010	10+00	-	16+00	-	76	870	866	153	153
0010	16+00	-	22+00	-	-	1,081	1,081	120	120
0010	22+00	-	28+00	90	-	1,042	1,042	70	70
0010	28+00	-	34+00	442	484	739	739	0	0
0010	34+00	-	40+00	-	-	1,126	1,190	115	115
0010	40+00	-	46+00	-	-	1,094	1,094	75	75
0010	46+00	-	52+00	-	-	1,147	1,147	85	85
0010	52+00	-	58+00	-	-	1,097	1,097	70	70
0010	58+00	-	64+00	-	-	688	788	0	0
0010	UNDISTRIBUTED			68.00	40.00	1,901	1,901	62	62
	SUBTOTAL			600	600	10,785	10,945	750	750
	TOTAL 0010			**1,200**		**21,730**		**1,500**	

CONCRETE SIDEWALK

CATEGORY	STATION	TO	STATION	305.0120* BASE AGGREGATE DENSE 1 1/4-INCH TON STAGE 2	305.0120* BASE AGGREGATE DENSE 1 1/4-INCH TON STAGE 3	601.0600 CONCRETE CURB PEDESTRIAN LF STAGE 2	601.0600 CONCRETE CURB PEDESTRIAN LF STAGE 3	602.0410 CONCRETE SIDEWALK 5-INCH SF STAGE 2	602.0410 CONCRETE SIDEWALK 5-INCH SF STAGE 3	602.0420 CONCRETE SIDEWALK 7-INCH SF STAGE 2	602.0420 CONCRETE SIDEWALK 7-INCH SF STAGE 3	602.0515 CURB RAMP DETECTABLE WARNING FIELD NATURAL PATINA SF STAGE 2	602.0515 CURB RAMP DETECTABLE WARNING FIELD NATURAL PATINA SF STAGE 3	602.0615 CURB RAMP DETECTABLE WARNING FIELD RADIAL NATURAL PATINA SF STAGE 2	602.0615 CURB RAMP DETECTABLE WARNING FIELD RADIAL NATURAL PATINA SF STAGE 3
0010	10+00	-	16+00	92	126	0	475	2,508	4,122	198	404	10	20	0	28
0010	16+00	-	22+00	112	128	0	420	2,956	3,549	621	594	20	40	35	30
0010	22+00	-	28+00	134	134	0	0	3,527	4,150	601	0	10		14	0
0010	28+00	-	34+00	109	111	0	0	8,474	8,555	0	0	0		0	0
0010	34+00	-	40+00	113	114	0	0	4,413	4,585	396	288	20	20	28	15
0010	40+00	-	46+00	130	130	0	0	3,747	3,931	311	177	0		0	0
0010	46+00	-	52+00	106	106	74	110	2,784	2,778	425	628	0		0	0
0010	52+00	-	58+00	110	120	0	0	2,847	3,383	434	120	40	40	0	0
0010	58+00	-	64+00	84	80	0	0	2,150	2,285	247	115	0	20	0	0
0010	UNDISTRIBUTED			262	259	16	5	2,887	2,869	220	221	15	15	25	25
	SUBTOTAL			1,252	1,308	90	1,010	36,293	40,207	3,453	2,547	115	155	102	98
	TOTAL 0010			**2,560**		**1,100**		**76,500**		**6,000**		**270**		**200**	

*ADDITIONAL QUANTITIES LISTED ELSEWHERE

STORM SEWER PIPE

CATEGORY	BEGIN STR.	TO	END STR.	520.8000 CONCRETE COLLARS FOR PIPE EACH	608.0315 STORM SEWER PIPE REINFORCED CONCRETE CLASS III 15-INCH LF	608.0318 STORM SEWER PIPE REINFORCED CONCRETE CLASS III 18-INCH LF	608.0324 STORM SEWER PIPE REINFORCED CONCRETE CLASS III 24-INCH LF	608.0512 STORM SEWER PIPE REINFORCED CONCRETE CLASS V 12-INCH LF	608.3012 STORM SEWER PIPE CLASS III-A 12-INCH LF	REMARKS
STAGE 2 (EASTBOUND)										
0010	215C	-	215B	-	-	-	-	51	-	STAGE 2
0010	215B	-	EX. INL					-	15	STAGE 2
0010	214B	-	12" RCP	1	-	-	-	58	-	STAGE 2
0010	213D	-	213C	-	-	-	-	56	-	STAGE 2
0010	213C	-	EX. INL	-	-	-	-	-	14	STAGE 2
0010	212D	-	212C	-	-	-	-	38	-	STAGE 2
0010	212C	-	212	-	-	-	-	11	-	STAGE 2
0010	12" RCP	-	212	1	-	-	-	7	-	STAGE 2
0010	212	-	200	-	-	-	-	197	-	STAGE 2
0010	320E	-	320D	-	-	-	-	46	-	STAGE 2
0010	320D	-	320C	-	-	-	-	48	-	STAGE 2
0010	320C	-	320	-	-	-	-	18	-	STAGE 2
0010	320	-	319	-	184	-	-	-	-	STAGE 2
0010	319C	-	319	-	-	-	-	38	-	STAGE 2
0010	319B	-	319	-	-	-	-	8	-	STAGE 2
0010	319	-	312A	-	-	192	-	-	-	STAGE 2
0010	315B	-	315	-	-	8	-	-	-	STAGE 2
0010	315A	-	315	-	-	8	-	-	-	STAGE 2
0010	315	-	311	-	-	32	-	-	-	STAGE 2
0010	312A	-	312	-	-	8	-	-	-	STAGE 2
0010	312B	-	312	-	-	8	-	-	-	STAGE 2
0010	312	-	311	-	-	6	-	-	-	STAGE 2
0010	311	-	310	-	-	-	99	-	-	STAGE 2
0010	12" RCP	-	24" RCP	-	-	-	-	-	-	STAGE 2; TEE INTO '311-310' 24" RCP
0010	310	-	309	-	-	-	32	-	-	STAGE 2
0010	309	-	308	-	-	-	76	-	-	STAGE 2
0010	316A	-	316	-	-	-	-	39	-	STAGE 2
0010	316	-	308	-	-	115	-	-	-	STAGE 2
0010	409C	-	409	-	-	-	-	56	-	STAGE 2
0010	409	-	408	-	-	102	-	-	-	STAGE 2
0010	407E	-	407C	-	-	-	-	66	-	STAGE 2
0010	407D	-	407C	-	-	-	-	10	-	STAGE 2
0010	407C	-	407A	-	23	-	-	-	-	STAGE 2
0010	407B	-	407A	-	-	-	-	52	-	STAGE 2
0010	407A	-	156.1	-	66	-	-	-	-	STAGE 2
0010	405D	-	405C	-	-	-	-	39	-	STAGE 2
0010	405C	-	405B	-	-	-	-	8	-	STAGE 2
0010	405B	-	405	-	8	-	-	-	-	STAGE 2
0010	403C	-	403B	-	-	-	-	38	-	STAGE 2
0010	403B	-	403	-	-	-	-	13	-	STAGE 2
0010	403A	-	403	-	-	-	-	52	-	STAGE 2
0010	402C	-	168	-	-	-	-	51	-	STAGE 2
0010	401B	-	401	-	-	-	-	13	-	STAGE 2
0010	401A	-	401	-	-	-	-	13	-	STAGE 2
0010	400B	-	EX. BOX	-	-	-	-	28	-	STAGE 2
0010	502F	-	502D	-	8	-	-	-	-	STAGE 2
0010	502D	-	177	-	-	15	-	-	-	STAGE 2
0010	502G	-	502H	-	8	-	-	-	-	STAGE 2
0010	502H	-	177	-	55	-	-	-	-	STAGE 2
0010	503C	-	128	-	-	-	-	53	-	STAGE 2
0010	503B	-	128	-	-	-	-	11	-	STAGE 2
0010	503D	-	503C	-	-	-	-	31	-	STAGE 2
0010	504D	-	504C	-	-	-	-	43	-	STAGE 2
0010	504C	-	184	-	-	-	-	11	-	STAGE 2
0010	UNDISTRIBUTED			4	16	6	3	22	6	
	SUBTOTAL STAGE 2			6	368	500	210	1,225	35	

(CONTINUED)

STORM SEWER PIPE (CONT'D)

CATEGORY	BEGIN STR.	TO	END STR.	520.8000 CONCRETE COLLARS FOR PIPE EACH	608.0315 STORM SEWER PIPE REINFORCED CONCRETE CLASS III 15-INCH LF	608.0318 STORM SEWER PIPE REINFORCED CONCRETE CLASS III 18-INCH LF	608.0324 STORM SEWER PIPE REINFORCED CONCRETE CLASS III 24-INCH LF	608.0512 STORM SEWER PIPE REINFORCED CONCRETE CLASS V 12-INCH LF	608.3012 STORM SEWER PIPE CLASS III-A 12-INCH LF	REMARKS
STAGE 3 (WESTBOUND)										
0010	101	-	216B	-	-	-	-	140	-	STAGE 4
0010	216B	-	108.2	-	-	-	-	60	-	STAGE 3
0010	215B	-	215A	-	-	-	-	15	-	STAGE 3
0010	215A	-	215	-	-	-	-	28	-	STAGE 3
0010	12" RCP	-	195						-	STAGE 3
0010	214A	-	195	-	-	-	-	14	-	STAGE 3
0010	213C	-	213B	-	-	-	-	8	-	STAGE 3
0010	213B	-	196	-	-	-	-	29	-	STAGE 3
0010	213A	-	196	-	-	-	-	22	-	STAGE 3
0010	212A	-	12" RCP	1	-	-	-	48	-	STAGE 3
0010	320B	-	320	-	-	-	-	21	-	STAGE 3
0010	320A	-	320B	-	-	-	-	42		STAGE 3
0010	319A	-	319B	-	-	-	-	51	-	STAGE 3
0010	314A	-	314	-	-	8	-	-	-	STAGE 3
0010	314B	-	314	-	-	8	-	-	-	STAGE 3
0010	314	-	313	-	-	37	-	-	-	STAGE 3
0010	313A	-	313	-	-	8	-	-	-	STAGE 3
0010	313B	-	313	-	-	8	-	-	-	STAGE 3
0010	313	-	312	-	-	20	-	-	-	STAGE 3
0010	316C	-	316B	-	-	-	-	38	-	STAGE 3
0010	316B	-	316A	-	-	-	-	20	-	STAGE 3
0010	410	-	409A	-	-	-	-	61	-	STAGE 3
0010	409A	-	409B	-	-	38	-	-	-	STAGE 3
0010	409B	-	409	-	-	8	-	-	-	STAGE 3
0010	405A	-	405	-	-	-	-	49	-	STAGE 3
0010	402A	-	EX. PIPE	1	-	-	-	8	-	STAGE 3
0010	402B	-	168	-	-	-	-	14	-	STAGE 3
0010	400A	-	EX. BOX	-	-	-	-	26	-	STAGE 3
0010	501A	-	501B	-	-	-	-	8	-	STAGE 3
0010	502A	-	502B	-	8	-	-	-	-	STAGE 3
0010	502B	-	502C	-	38	-	-	-	-	STAGE 3
0010	502C	-	502D	-	8	-	-	-	-	STAGE 3
0010	502E	-	502C	-	8	-	-	-	-	STAGE 3
0010	503A	-	128	-	-	-	-	53	-	STAGE 3
0010	504A	-	EX. PIPE	1	-	-	-	8	-	STAGE 3
			UNDISTRIBUTED	1	-	5	-	32	-	
			SUBTOTAL STAGE 3	4	62	140	-	655	-	
			TOTAL 0010	**10**	**430**	**640**	**210**	**1,880**	**35**	

STORM SEWER STRUCTURES

CATEGORY	STR. NO.	STATION	OFFSET	520.1012 APRON ENDWALLS FOR CULVERT PIPE 12-INCH EACH	611.0420 RECONSTRUCTING MANHOLES EACH	611.0430 RECONSTRUCTING INLETS EACH	611.0612 INLET COVERS TYPE C EACH	611.1004 CATCH BASINS 4-FT DIAMETER EACH	611.2004 MANHOLES 4-FT DIAMETER EACH	611.2005 MANHOLES 5-FT DIAMETER EACH	611.3225 INLETS 2X2.5-FT EACH	* 611.8110 ADJUSTING MANHOLE COVERS EACH	611.8115 ADJUSTING INLET COVERS EACH	650.4000 CONSTRUCTION STAKING STORM SEWER EACH	SPV.0060.01 SPECIAL (01. INLET COVERS TYPE 57) EACH	SPV.0060.05 SPECIAL (05. CLEANING DRAINAGE STRUCTURES AND PIPES) EACH	REMARKS
STAGE 2 (EASTBOUND)																	
0010	215C	15+66	37.1' RT	-	-	-	-	-	-	-	1	-	-	1	1	-	STAGE 2
0010	215B	15+66	13.0' LT	-	-	-	-	1	-	-	-	-	1	1	1	-	STAGE 2 & ADJUST STAGE 4
0010	214B	17+42	37.0' RT	-	-	-	-	-	-	-	1	-	-	1	1	-	STAGE 2
0010	213C	19+86	19.0' LT	-	-	-	-	1	-	-	-	-	-	1	1	-	STAGE 2
0010	213D	19+86	37.0' RT	-	-	-	-	1	-	-	-	-	-	1	1	-	STAGE 2
0010	211	20+36	8.5' LT	-	-	-	-	-	-	-	-	1	-	-	-	1	STAGE 2
0010	210	20+40	101.8' RT	-	-	-	-	-	-	-	-	-	1	-	-	1	STAGE 2
0010	210A	20+89	101.9' RT	-	-	-	-	-	-	-	-	-	1	-	-	1	STAGE 2
0010	212	23+48	11.0' LT	-	-	-	-	-	1	-	-	-	-	1	1	-	STAGE 2
0010	212C	23+48	1.0' LT	-	-	-	-	1	-	-	-	-	-	1	1	-	STAGE 2
0010	212D	23+49	37.0' RT	-	-	-	-	1	-	-	-	-	-	1	1	-	STAGE 2
0010	320D	26+00	37.0' RT	-	-	-	-	1	-	-	-	-	-	1	1	-	STAGE 2
0010	320C	26+00	10.5' LT	-	-	-	-	1	-	-	-	-	-	1	1	-	STAGE 2
0010	320E	26+43	54.1' RT	-	-	-	1	1	-	-	-	-	-	1	-	-	STAGE 2
0010	320	26+17	14.9' LT	-	-	-	1	-	-	1	-	-	-	1	-	-	STAGE 2
0010	319	28+00	1.0' LT	-	-	-	-	-	1	-	-	-	-	1	1	-	STAGE 2
0010	319C	28+00	37.0' RT	-	-	-	-	1	-	-	-	-	-	1	1	-	STAGE 2
0010	312A	29+92	0.0'	-	-	-	-	1	-	-	-	-	-	1	1	-	STAGE 2
0010	312	30+00	0.0'	-	-	-	-	1	-	-	-	-	-	1	1	-	STAGE 2
0010	312B	30+08	0.0'	-	-	-	-	1	-	-	-	-	-	1	1	-	STAGE 2
0010	315A	29+92	37.0' RT	-	-	-	-	1	-	-	-	-	-	1	1	-	STAGE 2
0010	315	30+00	37.0' RT	-	-	-	-	1	-	-	-	-	-	1	1	-	STAGE 2
0010	315B	30+08	37.0' RT	-	-	-	-	1	-	-	-	-	-	1	1	-	STAGE 2
0010	311	30+00	5.5' RT	-	-	-	1	-	1	-	-	-	-	1	-	-	STAGE 2
0010	310	30+98	5.5' RT	-	-	-	1	-	-	1	-	-	-	1	-	1	STAGE 2
0010	309	30+99	37.0' RT	-	-	-	-	-	-	1	-	-	-	1	1	-	STAGE 2
0010	308	31+75	37.1' RT	-	-	-	-	-	-	1	-	-	-	1	1	-	STAGE 2
0010	316A	33+00	0.6' LT	-	-	-	-	1	-	-	-	-	-	1	1	-	STAGE 2
0010	316	32+90	37.0' RT	-	-	-	-	1	-	-	-	-	-	1	1	-	STAGE 2
0010	409	35+98	19.0' LT	-	-	-	-	-	1	-	-	-	-	1	1	-	STAGE 2
0010	409C	35+98	37.0' RT	-	-	-	-	1	-	-	-	-	-	1	1	-	STAGE 2
0010	408	37+00	19.0' LT	-	-	-	-	-	1	-	-	-	-	1	1	-	STAGE 2
0010	407B	38+50	55.0' RT	-	-	-	-	-	-	-	1	-	-	1	1	-	STAGE 2
0010	407C	39+04	74.0' RT	-	-	-	1	-	1	-	-	-	-	1	-	-	STAGE 2
0010	407D	38+94	74.4' RT	-	-	-	-	1	-	-	-	-	-	1	1	-	STAGE 2
0010	407E	39+68	81.7' RT	-	-	-	-	1	-	-	-	-	-	1	1	-	STAGE 2
0010	156.1	38+98	14.4' LT	-	-	-	-	-	-	-	-	1	-	-	-	1	STAGE 2
0010	407A	39+02	51.5' RT	-	-	-	1	-	1	-	-	-	-	1	-		STAGE 2
0010	160	41+55	14.7' LT	-	1	-	1	-	-	-	-	-	-	-	-	1	STAGE 2
0010	405	42+69	16.9' LT	-	-	-	1	-	1	-	-	-	-	1	-	-	STAGE 2
0010	405B	42+69	9.0' LT	-	-	-	-	1	-	-	-	-	-	1	1	-	STAGE 2
0010	405C	42+69	1.0' LT	-	-	-	-	1	-	-	-	-	-	1	1	-	STAGE 2
0010	405D	42+69	37.0' RT	-	-	-	-	1	-	-	-	-	-	1	1	-	STAGE 2
0010	163	44+89	14.0' LT	-	1	-	1	-	-	-	-	-	-	-	-	1	STAGE 2
0010	403B	45+80	1.0' LT	-	-	-	-	1	-	-	-	-	-	1	1	-	STAGE 2
0010	403C	45+80	37.0' RT	-	-	-	-	1	-	-	-	-	-	1	1	-	STAGE 2
0010	403	45+80	14.0' LT	-	-	-	-	-	1	-	-	-	-	1	1	-	STAGE 2
0010	402C	48+43	37.0' RT	-	-	-	-	1	-	-	-	-	-	1	1	-	STAGE 2
0010	168	48+43	13.0' LT	-	1	-	-	-	-	-	-	-	-	-	1	1	STAGE 2
0010	401B	52+00	1.0' LT	-	-	-	-	1	-	-	-	-	-	1	1	-	STAGE 2
0010	400B	51+99	37.0' RT	-	-	-	-	1	-	-	-	-	-	1	1	-	STAGE 2
0010	401	52+00	14.0' LT	-	-	-	1	-	1	-	-	-	-	1	-	1	STAGE 2
0010	501B	54+89	18.9' LT	-	-	-	-	1	-	-	-	-	-	1	1	-	STAGE 2
0010	502D	55+65	19.0' LT	-	-	-	-	-	1	-	-	-	-	1	1	-	STAGE 2
0010	502F	55+57	19.0' LT	-	-	-	-	-	-	-	1	-	.	1	1	-	STAGE 2
0010	502G	55+57	37.1' RT	-	-	-	-	1	-	-	-	-	-	1	1	-	STAGE 2
0010	502H	55+65	38.3' RT	-	-	-	-	1	-	-	-	-	-	1	1	-	STAGE 2
0010	177	55+79	14.0' LT	-	1	-	1	-	-	-	-	-	-	-	-	1	STAGE 2
0010	503B	57+00	9.0' LT	-	-	-	-	1	-	-	-	-	-	1	1	-	STAGE 2
0010	128	57+10	12.9' LT	-	1	-	1	-	-	-	-	-	-	-	-	1	STAGE 2
0010	503C	57+10	40.0' RT	-	-	-	-	1	-	-	-	-	-	1	1	-	STAGE 2
0010	503D	57+16	70.3' RT	-	-	-	-	-	-	-	1	-	-	1	1	-	STAGE 2
0010	184	59+92	13.2' LT	-	-	-	-	-	-	-	-	2	-	-	-	1	ADJUST IN STAGE 1 & STAGE 4
0010	504C	59+92	2.8' LT	-	-	-	-	1	-	-	-	-	-	1	1	-	STAGE 2
0010	504D	59+92	40.0' RT	-	-	-	-	1	-	-	-	-	-	1	1	-	STAGE 2
0010		UNDISTRIBUTED		-	2	5	-	-	-	-	-	2	3	-	-	5	
		SUBTOTAL STAGE 2		-	7	5	12	35	11	4	5	6	6	55	48	17	

(CONTINUED)

STORM SEWER STRUCTURES (CONT'D)

CATEGORY	STR. NO.	STATION	OFFSET	520.1012 APRON ENDWALLS FOR CULVERT PIPE 12-INCH EACH	611.0420 RECONSTRUCTING MANHOLES EACH	611.0430 RECONSTRUCTING INLETS EACH	611.0612 INLET COVERS TYPE C EACH	611.1004 CATCH BASINS 4-FT DIAMETER EACH	611.2004 MANHOLES 4-FT DIAMETER EACH	611.2005 MANHOLES 5-FT DIAMETER EACH	611.3225 INLETS 2X2.5-FT EACH	* 611.8110 ADJUSTING MANHOLE COVERS EACH	611.8115 ADJUSTING INLET COVERS EACH	650.4000 CONSTRUCTION STAKING STORM SEWER EACH	SPV.0060.01 SPECIAL (01. INLET COVERS TYPE 57) EACH	SPV.0060.05 SPECIAL (05. CLEANING DRAINAGE STRUCTURES AND PIPES) EACH	REMARKS
STAGE 3 (WESTBOUND)																	
0010	100	10+89	88.0' LT	-	-	-	-	-	-	-	1	-	-	1	1	1	STAGE 3
0010	101	12+06	19.0' RT	-	-	-	-	-	-	-	1	-	-	1	1	-	STAGE 4
0010	216B	13+45	25.3' LT	-	-	-	-	1	-	-	-	-	1	1	1	-	STAGE 3 & ADJUST STAGE 4
0010	108.2	13+71	80.1' LT	-	1	-	1	-	-	-	-	-	-	-	-	1	STAGE 3
0010	193	14+78	54.4' LT	-	-	-	-	-	-	-	-	1	-	-	-	1	STAGE 3
0010	216A	14+78	65.3' LT	-	-	-	-	1	-	-	-	-	-	1	1	-	STAGE 3
0010	194	15+70	54.9' LT	-	-	-	-	-	-	-	-	1	-	-	-	1	STAGE 3
0010	215A	15+66	27.0' LT	-	-	-	-	1	-	-	-	-	-	1	1	-	STAGE 3
0010	195	17+44	51.3' LT	-	1	-	-	-	-	-	-	-	-	-	-	1	STAGE 3
0010	214A	17+44	65.0' LT	-	-	-	-	1	-	-	-	-	-	1	1	-	STAGE 3
0010	213B	19+86	27.0' LT	-	-	-	-	1	-	-	-	-	-	1	1	-	STAGE 3
0010	220A	20+45	90.7' LT	-	-	-	-	-	-	-	-	-	1	-	-	1	STAGE 3
0010	220B	20+86	92.4' LT	-	-	-	-	-	-	-	-	-	1	-	-	1	STAGE 3
0010	196	20+08	44.3' LT	-	-	-	-	-	-	-	-	1	-	-	-	1	STAGE 3
0010	213A	20+14	65.0' LT	-	-	-	-	1	-	-	-	-	-	1	1	-	STAGE 3
0010	200	21+52	11.0' LT	-	-	-	-	1	-	-	-	-	-	1	1	-	STAGE 3
0010	212A	23+48	65.0' LT	-	-	-	-	1	-	-	-	-	-	1	1	-	STAGE 3
0010	320A	26+17	64.6' LT	-	-	-	-	1	-	-	-	-	-	1	1	-	STAGE 3
0010	320B	26+00	27.0' LT	-	-	-	-	1	-	-	-	-	-	1	1	-	STAGE 3
0010	319A	28+00	59.5' LT	-	-	-	-	1	-	-	-	-	-	1	1	-	STAGE 3
0010	319B	28+00	9.0' LT	-	-	-	-	1	-	-	-	-	-	1	1	-	STAGE 3
0010	314A	29+90	56.5' LT	-	-	-	-	1	-	-	-	-	-	1	1	-	STAGE 3
0010	314	29+99	56.5' LT	-	-	-	-	1	-	-	-	-	-	1	1	-	STAGE 3
0010	314B	30+07	56.5' LT	-	-	-	-	1	-	-	-	-	-	1	1	-	STAGE 3
0010	313A	29+91	19.5' LT	-	-	-	-	1	-	-	-	-	-	1	1	-	STAGE 3
0010	313	29+99	19.5' LT	-	-	-	-	1	-	-	-	-	-	1	1	-	STAGE 3
0010	313B	30+07	19.5' LT	-	-	-	-	1	-	-	-	-	-	1	1	-	STAGE 3
0010	316C	32+98	57.1' LT	-	-	-	-	1	-	-	-	-	-	1	1	-	STAGE 3
0010	316B	33+00	20.1' LT	-	-	-	-	1	-	-	-	-	-	1	1	-	STAGE 3
0010	410	35+40	84.9' LT	1	-	-	-	-	-	-	-	-	-	1	-	-	STAGE 3
0010	409A	35+97	65.0' LT	-	-	-	-	1	-	-	-	-	-	1	1	-	STAGE 3
0010	409B	35+98	27.0' LT	-	-	-	-	1	-	-	-	-	-	1	1	-	STAGE 3
0010	405A	42+69	65.0' LT	-	-	-	-	1	-	-	-	-	-	1	1	-	STAGE 3
0010	403A	45+80	65.0' LT	-	-	-	-	1	-	-	-	-	-	1	1	-	STAGE 3
0010	402A	48+43	65.0' LT	-	-	-	-	1	-	-	-	-	-	1	1	-	STAGE 3
0010	402B	48+43	26.9' LT	-	-	-	-	1	-	-	-	-	-	1	1	-	STAGE 3
0010	401A	52+00	27.0' LT	-	-	-	-	1	-	-	-	-	-	1	1	-	STAGE 3
0010	400A	52+00	65.0' LT	-	-	-	-	1	-	-	-	-	-	1	1	-	STAGE 3
0010	501A	54+89	27.0' LT	-	-	-	-	1	-	-	-	-	-	1	1	-	STAGE 3
0010	502A	55+60	65.0' LT	-	-	-	-	1	-	-	-	-	-	1	1	-	STAGE 3
0010	502B	55+68	65.0' LT	-	-	-	-	1	-	-	-	-	-	1	1	-	STAGE 3
0010	502C	55+65	27.0'LT	-	-	-	-	-	-	-	1	-	-	1	1	-	STAGE 3
0010	502E	55+57	27.0'LT	-	-	-	-	-	-	-	1	-	-	1	1	-	STAGE 3
0010	503A	57+10	65.0' LT	-	-	-	-	1	-	-	-	-	-	1	1	-	STAGE 3
0010	504A	59+92	65.0' LT	-	-	-	-	1	-	-	-	-	-	1	1	-	STAGE 3
0010	504B	59+92	27.0' LT	-	-	-	-	1	-	-	-	-	-	1	1	-	STAGE 3
0010	UNDISTRIBUTED			-	3	5	-	-	-	-	-	1	3	-	-	5	
	SUBTOTAL STAGE 3			1	5	5	1	34	-	-	4	4	6	39	38	13	
	ITEM TOTAL			**1**	**12**	**10**	**13**	**69**	**11**	**4**	**9**	**10**	**12**	**94**	**86**	**30**	

* ADDITIONAL QUANTITIES LISTED ELSEWHERE

3

SANITARY MANHOLES

LOCATION	STATION	OFFSET	611.8110* ADJUSTING MANHOLE COVERS EACH CATEGORY 0020	SPV.0060.11 INTERNAL/EXTERNAL SANITARY MANHOLE SEAL EACH CATEGORY 0020	REMARKS
W RAWSON AVE					
	10+45	81' LT	1	1	STAGE 3
	11+79	55' RT	1	1	STAGE 2
	11+80	81' LT	1	1	STAGE 3
	12+80	77' LT	1	1	STAGE 3
	13+67	46' RT	1	1	STAGE 2
	20+27	62' RT	1	1	STAGE 2
	20+93	78' LT	1	1	STAGE 3
	20+94	62' RT	1	1	STAGE 2
	61+84	87' RT	1	1	STAGE 2
UNDISTRIBUTED			1	1	
TOTAL			**10**	**10**	

*ADDITIONAL QUANTITIES SHOWN ELSEWHERE

FENCE

CATEGORY	STATION	TO	STATION	LOCATION	616.0206 FENCE CHAIN LINK 6-FT LF
0010	51+25	-	53+00	LT	180
0010	51+50	-	53+25	RT	180
0010				UNDISTRIBUTED	-
				TOTAL 0010	**360**

MOBILIZATION

CATEGORY	PROJECT	619.1000 MOBILIZATION EACH
0010	2050-08-71	1
	TOTAL 0010	**1**

3

RESTORATION ITEMS

				625.0100		628.2008		629.0210		630.0130		630.0500		631.0300		631.1000	
				TOPSOIL		EROSION MAT URBAN CLASS I TYPE B		FERTILIZER TYPE B		SEEDING MIXTURE NO. 30		SEED WATER		SOD WATER		SOD LAWN	
CATEGORY	STATION	TO	STATION	SY	SY	SY	SY	CWT	CWT	LB	LB	MGAL	MGAL	MGAL	MGAL	SY	SY
				STAGE 2	STAGE 3	STAGE 2	STAGE 3	STAGE 2	STAGE 3	STAGE 2	STAGE 3	STAGE 2	STAGE 3	STAGE 2	STAGE 3	STAGE 2	STAGE 3
0010	10+00	-	16+00	400	408	270	264	0.2	0.2	5	5	7	6	12	11	480	470
0010	16+00	-	22+00	434	502	435	45	0.2	0.1	8	1	3	1	-	11	-	460
0010	22+00	-	28+00	656	323	656	323	0.3	0.2	12	6	16	8	-	-	-	-
0010	28+00	-	34+00	765	300	765	300	0.6	0.2	20	7	29	8	-	-	-	-
0010	34+00	-	40+00	696	667	696	667	0.3	0.3	12	13	17	16	-	-	-	-
0010	40+00	-	46+00	380	425	380	425	0.2	0.2	7	8	9	10	-	-	-	-
0010	46+00	-	52+00	1,059	1,059	1,059	1,059	0.5	0.5	19	19	25	26	-	-	-	-
0010	52+00	-	58+00	976	1,341	976	1,341	0.4	0.6	18	24	22	34	-	-	-	-
0010	58+00	-	64+00	821	1,019	821	1,019	0.4	0.4	15	18	20	24	-	-	-	-
UNDISTRIBUTED				363	406	249	250	0.5	0.7	17	16	9	10	8	8	120	70
			SUBTOTAL	6,550	6,450	6,307	5,693	3.6	3.4	133	117	157	143	20	30	600	1,000
			TOTAL 0010	**13,000**		**12,000**		**7.0**		**250**		**300**		**50**		**1,600**	

EROSION CONTROL ITEMS

				624.0100	628.1504	628.1520	628.1905	628.1910	628.6510	628.7005	628.7010	628.7015	628.7020	628.7504	628.7570	628.7555	630.0200	645.0130
				WATER	SILT FENCE	SILT FENCE MAINTENANCE	MOBILIZATIONS EROSION CONTROL	MOBILIZATIONS EMERGENCY EROSION CONTROL	SOIL STABILIZER TYPE B	INLET PROTECTION TYPE A	INLET PROTECTION TYPE B	INLET PROTECTION TYPE C	INLET PROTECTION TYPE D	TEMPORARY DITCH CHECKS	ROCK BAGS	CULVERT PIPE CHECKS	SEEDING TEMPORARY	GEOTEXTILE TYPE R
				MGAL	LF	LF	EACH	EACH	ACRE	EACH	EACH	EACH	EACH	LF	EACH	EACH	LB	SY
				CATEGORY	CATEGORY	CATEGORY	CATEGORY	CATEGORY	CATEGORY	CATEGORY	CATEGORY	CATEGORY	CATEGORY	CATEGORY	CATEGORY	CATEGORY	CATEGORY	CATEGORY
CATEGORY	STATION	TO	STATION	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010
0010	10+00	-	16+00	--	--	--	--	--	0.40	--	7	--	--	--	--	--	--	--
0010	16+00	-	22+00	--	--	--	--	--	0.20	--	7	--	--	--	--	--	--	--
0010	22+00	-	28+00	--	--	--	--	--	0.30	1	10	--	--	--	--	--	--	--
0010	28+00	-	34+00	--	--	--	--	--	0.40	--	4	--	12	--	--	--	--	--
0010	34+00	-	40+00	--	--	--	--	--	0.30	1	7	--	--	--	--	1	--	--
0010	40+00	-	46+00	--	161	161	--	--	0.20	--	9	--	--	--	--	--	--	--
0010	46+00	-	52+00	--	20	20	--	--	0.50	--	7	--	--	--	--	--	--	--
0010	52+00	-	58+00	--	544	544	--	--	0.50	1	13	--	--	--	20	--	--	--
0010	58+00	-	64+00	--	--	--	--	--	0.40	--	4	--	--	--	--	--	--	--
0011	B-40-0389			--	1	1	--	--	--	--	--	--	--	--	30	--	--	--
UNDISTRIBUTED				50	275	275	4	4	0.4	2	2	5	3	5	10	4	10	70
TOTAL 0010				**50**	**1,001**	**1,001**	**4**	**4**	**3.60**	**5**	**70**	**5**	**15**	**5**	**60**	**5**	**10**	**70**

3

CONSTRUCTION STAKING ITEMS

CATEGORY	STATION	TO	STATION	650.4500 CONSTRUCTION STAKING SUBGRADE LF CATEGORY 0010 STAGE 2	650.4500 STAGE 3	650.5000 CONSTRUCTION STAKING BASE LF CATEGORY 0010 STAGE 2	650.5000 STAGE 3	650.5500 CONSTRUCTION STAKING CURB GUTTER AND CURB & GUTTER LF CATEGORY 0010 STAGE 2	650.5500 STAGE 3	650.7000 CONSTRUCTION STAKING CONCRETE PAVEMENT LF CATEGORY 0010 STAGE 2	650.7000 STAGE 3	650.8501.01 CONSTRUCTION STAKING ELECTRICAL INSTALLATIONS PROJECT 2050-08-71 EACH CATEGORY 0010
0010	10+00	-	16+00	293	574	--	--	--	--	293	574	--
0010	16+00	-	22+00	669	648	--	--	42	24	669	648	--
0010	22+00	-	28+00	600	600	--	--	--	--	600	600	--
0010	28+00	-	34+00	600	600	--	--	--	--	600	600	--
0010	34+00	-	40+00	790	670	104	31	208	62	790	670	--
0010	40+00	-	46+00	600	600	--	--	--	--	600	600	--
0010	46+00	-	52+00	600	600	--	--	--	--	600	600	--
0010	52+00	-	58+00	657	624	--	--	--	--	657	624	--
0010	58+00	-	64+00	340	341	--	--	--	--	340	341	--
UNDISTRIBUTED				51	43	1	4	10	14	51	43	1
SUBTOTAL				5,200	5,300	105	35	260	100	5,200	5,300	1
ITEM TOTAL				**10,500**		**140**		**360**		**10,500**		**1**

CATEGORY	STATION	TO	STATION	650.9000 CONSTRUCTION STAKING CURB RAMPS EACH CATEGORY 0010	0020	650.9500 CONSTRUCTION STAKING CONCRETE SIDEWALK PROJECT 2050-08-71 EACH CATEGORY 0010	0020	650.9911 CONSTRUCTION STAKING SUPPLEMENTAL CONTROL PROJECT 2050-08-71 EACH CATEGORY 0010 STAGE 2	STAGE 3	650.9920 CONSTRUCTION STAKING SLOPE STAKES LF CATEGORY 0010 STAGE 2	STAGE 3
0010	10+00	-	16+00	3	1	--	--	--	--	293	574
0010	16+00	-	22+00	6	1	--	--	--	--	669	648
0010	22+00	-	28+00	--	--	--	--	--	--	600	600
0010	28+00	-	34+00	--	--	--	--	--	--	600	600
0010	34+00	-	40+00	6	1	--	--	--	--	790	670
0010	40+00	-	46+00	--	--	--	--	--	--	600	600
0010	46+00	-	52+00	--	--	--	--	--	--	600	600
0010	52+00	-	58+00	6	2	--	--	--	--	657	624
0010	58+00	-	64+00	--	--	--	--	--	--	340	341
UNDISTRIBUTED				--	--	0.8	0.2	1	1	51	43
SUBTOTAL				21	5	0.8	0.2	1	1	5,200	5,300
ITEM TOTAL				**26**		**1.0**		**2**		**10,500**	

SAW CUTTING

CATEGORY	STATION	TO	STATION	690.0150 SAWING ASPHALT LF CATEGORY 0010 STAGE 1	STAGE 2	STAGE 3	STAGE 4	690.0250 SAWING CONCRETE LF CATEGORY 0010 STAGE 1	STAGE 2	STAGE 3	STAGE 4
0010	10+00	-	16+00	--	21	50	--	2,060	350	573	--
0010	16+00	-	22+00	--	70	39	--	--	30	--	--
0010	22+00	-	28+00	--	34	--	--	--	26	--	--
0010	28+00	-	34+00	--	--	--	--	--	--	--	--
0010	34+00	-	40+00	--	62	60	--	--	--	--	--
0010	40+00	-	46+00	--	64	35	--	--	--	--	--
0010	46+00	-	52+00	--	34	42	--	--	--	--	--
0010	52+00	-	58+00	--	40	24	--	--	--	--	--
0010	58+00	-	64+00	--	29	23	--	--	80	149	--
UNDISTRIBUTED				--	46	27	--	40	13	44	--
SUBTOTAL				--	400	300		2,100	499	766	
TOTAL 0010					**700**				**3,365**		

INCENTIVES

PROJECT ID	715.0502 INCENTIVE STRENGTH CONCRETE STRUCTURES DOL	715.0715 INCENTIVE FLEXURAL STRENGTH CONCRETE PAVEMENT DOL	740.0440 INCENTIVE IRI RIDE DOL
2050-08-71	5000	5300	5300
TOTAL	**5000**	**5300**	**5300**
CATEGORY	0010	0010	0010

3

REMOVING ITEMS

204.0195 * REMOVING CONCRETE BASES

STATION	EA
11+72.92	1
12+76.08	1
14+63.93	1
15+57.80	1
16+70.05	1
17+86.24	1
19+02.60	1
22+26.46	1
23+41.29	1
24+54.69	1
26+09.24	1
27+31.07	1
29+79.28	1
30+88.68	1
31+98.28	1
33+09.29	1
34+18.92	1
35+23.91	1
37+54.62	1
40+86.28	1
41+88.60	1
42+90.74	1
44+02.29	1
45+05.54	1
46+08.50	1
47+12	1
48+22.68	1
49+25.93	1
50+38.92	1
51+48.32	1
52+57.65	1
53+66.27	1
54+75.20	1
55+68.35	1
57+25.82	1
59+43.82	1
60+43.33	1
61+41.84	1
TOTAL	**38**

* ADDITIONAL QUANTITIES LISTED ELSEWHERE

LIGHTING UNIT ITEMS

654.0105 CONCRETE BASES TYPE 5

STATION	EA
11+72.92	1
12+76.08	1
14+63.93	1
15+57.80	1
16+70.05	1
17+86.24	1
19+02.60	1
22+26.46	1
23+41.29	1
24+54.69	1
25+94.07	1
27+31.07	1
29+79.28	1
30+88.68	1
31+98.28	1
33+09.29	1
34+18.92	1
35+23.91	1
37+54.62	1
40+86.28	1
41+88.60	1
42+90.74	1
43+87.34	1
45+05.54	1
46+08.50	1
47+12	1
48+22.68	1
49+25.93	1
50+38.92	1
51+48.32	1
52+57.65	1
53+66.27	1
54+75.20	1
55+68.35	1
57+25.82	1
59+43.82	1
60+43.33	1
61+41.84	1
TOTAL	**38**

CONDUIT ITEMS

652.0225 * CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH

LOCATION	TO LOCATION	LF
10+68.31	11+71.80	105
11+72.80	12+75.721	103
12+76.34	14+63.93	188
14+63.93	15+57.80	94
15+57.80	16+70.05	114
16+70.05	17+86.24	117
17+86.24	19+02.60	117
19+02.60	22+26.46	325
22+26.46	23+41.29	115
23+42.19	24+54.69	114
24+54.69	26+09.24	155
26+09.24	27+31.07	123
27+31.07	29+79.28	249
29+79.28	30+88.68	110
30+88.68	31+98.28	110
31+98.28	33+09.29	111
33+09.29	34+18.92	110
34+18.92	35+23.91	105
35+22.86	37+53.29	399
37+54.62	40+86.28	334
40+86.28	41+88.60	103
41+88.60	42+90.74	102
42+90.74	44+02.29	113
44+02.29	45+05.54	105
45+05.54	46+08.50	103
46+08.50	47+12.00	104
47+12.00	48+22.68	111
48+22.68	49+25.93	105
49+25.93	50+38.92	114
50+38.92	51+48.32	110
51+48.32	52+57.65	110
52+57.65	53+66.27	109
53+66.27	54+75.20	109
54+75.20	55+68.35	94
55+68.35	57+25.82	159
57+25.82	59+43.82	218
59+43.82	60+43.33	100
60+43.33	61+41.84	99
TOTAL		**5,058**

PULL BOXES

653.0135 * PULL BOXES STEEL 24X36-INCH

LOCATION	EA
35+19.33	1
37+49.94	1
TOTAL	**2**

3

SA.	
ST.	
W.	
G.	
E.	
T.	
I.	
TS.	
PP.	

CITY OF OAK CREEK - ENGINEERING DEPARTMENT

DESIGNED BY	DATE	DRAWN BY	DATE	CHECKED BY	DATE
A. LEDGER	05/24	M. JOHNSON	05/24	A. LEDGER	05/24

MISCELLANEOUS QUANTITIES

SCALE	SHEET
PLAN HOR. N/A	01
PROFILE HOR. N/A	OF 11
VER. N/A	

APPROVED BY COUNCIL RESOLUTION NO. XXXXX-XXXXXXXX

FILE NO: XXXXX-1X-XXXX

PROJECT NO: 2050-08-71	HWY: CTH BB	COUNTY: MILWAUKEE	MISCELLANEOUS QUANTITIES	SHEET	E

FILE NAME :

PLOT DATE : 10/31/2024

PLOT BY : DMM

PLOT SCALE : 1:1

3

WATER VALVE ADJUSTMENTS

LOCATION	STATION	OFFSET	SPV.0060.02 ADJUSTING WATER VALVE BOXES EACH CATEGORY 0020
STAGE 2 (EASTBOUND)			
	20+38	42' RT	1
	20+39	42' RT	1
	20+62	50' RT	1
	20+62	52' RT	1
	20+86	82' RT	1
	39+14	45' RT	1
	39+35	73' RT	1
	56+20	65' RT	1
	56+28	67' RT	1
STAGE 2 SUBTOTAL			9
STAGE 3 (WESTBOUND)			
	11+22	68' **LT**	1
	39+46	110' **LT**	1
	56+13	84' **LT**	1
STAGE 3 SUBTOTAL			3
UNDISTRIBUTED			3
TOTAL 0020			**15**

WATER MAIN PROTECTION

LOCATION	STATION	OFFSET	SPV.0060.03 WATERMAIN PROTECTION EACH CATEGORY 0020
STAGE 1 (EASTBOUND)			
UNDISTRIBUTED	--	--	2
STAGE 1 SUBTOTAL			2
STAGE 2 (WESTBOUND)			
UNDISTRIBUTED	--	--	2
STAGE 2 SUBTOTAL			2
TOTAL 0020			**4**

MISC. ITEMS

LOCATION	495.1000.S COLD PATCH TON	SPV.0035.01 BACKFILL SLURRY CY	SPV.0060.05 UTILITY LINE OPENING (ULO) EACH	SPV.0060.06 FIELD FACIOLITES OFFICE SPACE EACH	SPV.0060.08 TEMPORARY MAILBOXES EACH	SPV.0060.10 SECTION CORNER MONUMENTS EACH	SPV.0060.12 CORED HOLES 6-INCH EACH	SPV.0060.14 CONSTRUCTION DEWATERING EACH	SPV.0060.41 TEMPORARY WATER DIVERSION CULVERT B-40-0389 EACH	611.8120.S COVER PLATES TEMPORARY EACH
W. RAWSON AVE									1	
UNDISTRIBUTED	5	250	8	1	15	1	40	2	0	10
TOTAL 0010	**5**	**250**	**8**	**1**	**15**	**1**	**40**	**2**	**1**	**10**
CATEGORY	0010	0010	0010	0010	0010	0010	0010	0010	0010	0010

SIGNING

CATEGORY	SIGN NO.	SIGN CODE	DESCRIPTION	SIZE INCHES	X	SIZE INCHES	634.0811 POSTS TUBULAR STEEL 2X2-INCH X 11-FT EACH	634.0812 POSTS TUBULAR STEEL 2X2-INCH X 12-FT EACH	634.0814 POSTS TUBULAR STEEL 2X2-INCH X 14-FT EACH	637.2210 SIGNS TYPE II REFLECTIVE H SF	637.2215 SIGNS TYPE II REFLECTIVE H FOLDING SF	637.2230 SIGNS TYPE II REFLECTIVE F SF	637.2235 SIGNS TYPE II REFLECTIVE F FOLDING SF	638.2602 REMOVING SIGNS TYPE II EACH	638.3000 REMOVING SMALL SIGN SUPPORTS EACH	REMARKS
0010	1.01	R1-1F	STOP (FOLDING)	30	X	30					5.18			1		MOUNT ON EXISTING POST
0010	1.02	R1-1F	STOP (FOLDING)	30	X	30					5.18			1		MOUNT ON EXISTING POST
0010	1.03	R4-7	KEEP RIGHT	24	X	30				5.00				1		SAME POST AS 1.01
0010	1.04	R4-7	KEEP RIGHT	24	X	30				5.00				1		SAME POST AS 1.02
0010	1.05	R1-1F	STOP (FOLDING)	30	X	30					5.18			1		ON SIGNAL POLE
0010	1.06		STOP											1	1	
0010	1.07	R1-2	YIELD	36	X	31	1			3.88						
0010	1.08	R1-1F	STOP (FOLDING)	30	X	30					5.18			1		ON SIGNAL POLE
0010	1.09	W12-1D	DOUBLE DIAGONAL ARROW	24	X	24	1					4.00		1	1	MOUNTING HEIGHT 2FT
0010	1.10	J3-1	NORTH COUNTY V RIGHT	24	X	57			1	9.50						
0010	1.11		S 13TH STREET NORTH RIGHT											1	2	
0010	1.12	R3-20L	BEGIN LEFT TURN LANE	24	X	36		1		6.00						
0010	1.13	R3-20R	BEGIN RIGHT TURN LANE	24	X	36		1		6.00						
0010	1.14	R7-1D	NO PARKING ANY TIME <->	24	X	30	1			5.00						
0010	1.15		SOUTH											1	1	
0010	1.16		COUNTY V											1		
0010	1.17		LEFT ARROW											1		
0010	1.18		NORTH											1	1	
0010	1.19		COUNTY V											1		
0010	1.20		RIGHT ARROW											1		
0010	1.21	D1-65	S 10TH ST NEXT SIGNAL	72	X	30	2			15.00						
0010	1.22	D1-65	S 13TH ST NEXT SIGNAL	72	X	30	2			15.00						
0010	1.23		NO PARKING ANY TIME <->											1	1	
0010	1.24	R3-20L	BEGIN LEFT TURN LANE	24	X	36		1		6.00				1	1	
0010	1.25	J1-1	JCT COUNTY V	24	X	39		1		6.50						
0010	1.26	J1-1	JCT COUNTY V	24	X	39		1		6.50						
0010	1.27	R2-1	SPEED LIMIT 40	30	X	36		1		7.50						
0010	1.28	R7-1D	NO PARKING ANY TIME <->	24	X	30	1			5.00				1	1	
0010	1.29	R1-1F	STOP (FOLDING)	30	X	30					5.18			1		ON SIGNAL POLE
0010	1.30	R1-1F	STOP (FOLDING)	30	X	30	1				5.18			1	1	
0010	1.31	R1-1F	STOP (FOLDING)	30	X	30					5.18			1		ON SIGNAL POLE
0010	1.32	R1-1F	STOP (FOLDING)	30	X	30					5.18			1	1	ON SIGNAL POLE
0010	1.33	W12-1D	DOUBLE DIAGONAL ARROW	24	X	24						4.00		1		MOUNTING HEIGHT 2FT, MOUNT ON EXISTING POST
0010	1.34	R1-2	YIELD	36	X	31				3.88						MOUNT ON EXISTING POST
0010	1.35		STOP											1		
0010	1.36	J4-1	EAST COUNTY BB	24	X	36				3.88						ON SIGNAL POLE
0010	1.37	R7-1D	NO PARKING ANY TIME <->	24	X	30				5.00						ON SIGNAL POLE
0010	1.38	R1-1F	STOP (FOLDING)	30	X	30					5.18			1		ON SIGNAL POLE
0010	1.39	R1-1F	STOP (FOLDING)	30	X	30					5.18			1		ON SIGNAL POLE
0010	1.40	J3-1	SOUTH COUNTY V LEFT	24	X	57			1	9.50						
0010	1.41	R2-1	SPEED LIMIT 40	30	X	36		1		7.50						
0010	1.42	R2-1	SPEED LIMIT 40	30	X	36		1		7.50						
0010	1.43	R3-7R	RIGHT LANE MUST TURN RIGHT	30	X	30	1			6.25						
0010	1.44	R4-7	KEEP RIGHT	24	X	30	1			5.00						
0010	1.45	R7-1D	NO PARKING ANY TIME <->	24	X	30	1			5.00				1	1	
0010	1.46	J2-1	NORTH COUNTY V ADV RIGHT	24	X	57			1	9.50						
0010	1.47	J2-1	SOUTH COUNTY V ADV LEFT	24	X	57			1	9.50						
0010	1.48	R4-7	KEEP RIGHT	24	X	30	1			5.00				1	1	
0010	1.49	R4-7	KEEP RIGHT	24	X	30	1			5.00				1	1	
0010	1.50		SOUTH/NORTH V ADV LEFT RIGHT											1		
0010	1.51		S 13TH ST											1		
0010	1.52		NO PARKING ANY TIME <->											1		

SIGNING

CATEGORY	SIGN NO.	SIGN CODE	DESCRIPTION	SIZE INCHES	X	SIZE INCHES	634.0811 POSTS TUBULAR STEEL 2X2-INCH X 11-FT EACH	634.0812 POSTS TUBULAR STEEL 2X2-INCH X 12-FT EACH	634.0814 POSTS TUBULAR STEEL 2X2-INCH X 14-FT EACH	637.2210 SIGNS TYPE II REFLECTIVE H SF	637.2215 SIGNS TYPE II REFLECTIVE H FOLDING SF	637.2230 SIGNS TYPE II REFLECTIVE F SF	637.2235 SIGNS TYPE II REFLECTIVE F FOLDING SF	638.2602 REMOVING SIGNS TYPE II EACH	638.3000 REMOVING SMALL SIGN SUPPORTS EACH	REMARKS
0010	1.53	R2-1	SPEED LIMIT 40	30	X	36		1		7.50				1		
0010	1.54	R3-7R	RIGHT LANE MUST TURN RIGHT	30	X	30	1			6.25						
0010	1.55	R7-1D	NO PARKING ANY TIME <->	24	X	30	1			5.00						
0010	1.56	R1-1F	STOP (FOLDING)	30	X	30					5.18			1		ON SIGNAL POLE
0010	1.57	R4-7	KEEP RIGHT	24	X	30				5.00				1		SAME POST AS 1.30
0010	1.58	R4-7	KEEP RIGHT	24	X	30				5.00				1		ON SIGNAL POLE
0010	1.59	R1-1F	STOP (FOLDING)	30	X	30					5.18			1		ON SIGNAL POLE
0010	1.60	R7-1D	NO PARKING ANY TIME <->	24	X	30	1			5.00				1	1	
0010	1.61	R7-1D	NO PARKING ANY TIME <->	24	X	30	1			5.00				1	1	
0010	1.62	R3-50R	RIGHT ONLY	30	X	36				7.50						ON MASTARM
0010	1.63	M1-94H	W RAWSON AVE	96	X	18				12.00				1		ON MASTARM
0010	1.64	M1-94H	W RAWSON AVE	96	X	18				12.00				1		ON MASTARM
0010	1.65	M1-94H	S 13TH ST	66	X	18				8.25				1		ON MASTARM
0010	1.66	M1-94H	S 13TH ST	66	X	18				8.25				1		ON MASTARM
0010	1.67	M1-94H	W RAWSON AVE	96	X	18				12.00				1		ON MASTARM
0010	1.68	M1-94H	W RAWSON AVE	96	X	18				12.00				1		ON MASTARM
0010	1.69	M1-94H	S 10TH ST	66	X	18				8.25				1		ON MASTARM
0010	1.70	M1-94H	S 10TH ST	66	X	18				8.25				1		ON MASTARM
0010	2.01		NO PARKING ANY TIME <->											1		
0010	2.02	R3-20L	BEGIN LEFT TURN LANE	24	X	36		1		6.00						
0010	2.03	R7-1D	NO PARKING ANY TIME <->	24	X	30	1			5.00						
0010	2.04	R7-1D	NO PARKING ANY TIME <->	24	X	30	1			5.00						
0010	2.05	D1-65	S 10TH ST NEXT SIGNAL	72	X	30	2			15.00						
0010	2.06	R7-1D	NO PARKING ANY TIME <->	24	X	30	1			5.00				1	1	
0010	2.07	R2-1	SPEED LIMIT 40	30	X	36		1		7.50				1	1	
0010	2.08	R2-1	SPEED LIMIT 40	30	X	36		1		7.50				1	1	
0010	2.09	W12-2	14'-4"	36	X	36		1				9.00		1	1	CONFIRM CLEARANCE PRIOR TO INSTALLATION
0010	2.10	W12-2	14'-4"	36	X	36		1				9.00		1	1	CONFIRM CLEARANCE PRIOR TO INSTALLATION
0010	2.11	W8-58F	HIGH WATER (FOLDING)	36	X	36		1					9.00			
0010	2.12	W8-58F	HIGH WATER (FOLDING)	36	X	36		1					9.00	1		EXISTING ON LIGHT POLE
0010	2.13	R4-7	KEEP RIGHT	24	X	30	1			5.00						
0010	2.14		KEEP RIGHT											1		EXISTING ON LIGHT POLE
0010	2.15	D1-65	S 6TH ST NEXT SIGNAL	72	X	30	2			15.00						
0010	2.16	R7-1D	NO PARKING ANY TIME <->	24	X	30	1			5.00						
0010	2.17	R3-7R	RIGHT LANE MUST TURN RIGHT	30	X	30	1			6.25						
0010	2.18	R3-52C	CURB LANE	30	X	42		1		8.75						
0010	3.01	R3-20L	BEGIN LEFT TURN LANE	24	X	36		1		6.00				1	1	
0010	3.02	R2-1	SPEED LIMIT 40	30	X	36		1		7.50				1	1	
0010	3.03	R2-1	SPEED LIMIT 40	30	X	36		1		7.50				1		
0010	3.04	R7-1D	NO PARKING ANY TIME <->	24	X	30	1			5.00				1	1	
0010	3.05	W12-2	14'-4"	36	X	36		1				9.00		1	1	CONFIRM CLEARANCE PRIOR TO INSTALLATION
0010	3.06	W12-2	14'-4"	36	X	36		1				9.00		1	1	CONFIRM CLEARANCE PRIOR TO INSTALLATION
0010	3.07		NO PARKING ANY TIME <->											1		
0010	3.08	J4-1	WEST COUNTY BB	24	X	36				3.88				1		ON SIGNAL POLE
0010	3.09	W8-58F	HIGH WATER (FOLDING)	36	X	36							9.00	1		ON SIGNAL POLE
0010	3.10	R1-1F	STOP (FOLDING)	30	X	30					5.18			1		ON SIGNAL POLE
0010	3.11	R1-1F	STOP (FOLDING)	30	X	30	1				5.18			1	1	
0010	3.12	R4-7	KEEP RIGHT	24	X	30				5.00				1		SAME POST AS 3.12
0010	3.13	R1-1F	STOP (FOLDING)	30	X	30					5.18			1		ON SIGNAL POLE
0010	3.14	R1-1F	STOP (FOLDING)	30	X	30	1				5.18			1	1	
0010	3.15	R7-1D	NO PARKING ANY TIME <->	24	X	30	1			5.00				1	1	
0010	3.16		SIGNAL AHEAD											1	1	
0010	3.17		JCT S 6TH ST											1		

SIGNING

CATEGORY	SIGN NO.	SIGN CODE	DESCRIPTION	SIZE INCHES	X	INCHES	634.0811 POSTS TUBULAR STEEL 2X2-INCH X 11-FT EACH	634.0812 POSTS TUBULAR STEEL 2X2-INCH X 12-FT EACH	634.0814 POSTS TUBULAR STEEL 2X2-INCH X 14-FT EACH	637.2210 SIGNS TYPE II REFLECTIVE H SF	637.2215 SIGNS TYPE II REFLECTIVE H FOLDING SF	637.2230 SIGNS TYPE II REFLECTIVE F SF	637.2235 SIGNS TYPE II REFLECTIVE F FOLDING SF	638.2602 REMOVING SIGNS TYPE II EACH	638.3000 REMOVING SMALL SIGN SUPPORTS EACH	REMARKS
0010	3.18		80 <-											1		
0010	3.19		BLANK											1		
0010	3.20		SIGNAL AHEAD											1		
0010	3.21	R3-20L	BEGIN LEFT TURN LANE	24	X	36		1		6.00				1	1	
0010	3.22		BLANK											1	1	
0010	3.23	R7-1D	NO PARKING ANY TIME <->	24	X	30	1			5.00				1	1	
0010	3.24	R7-1D	NO PARKING ANY TIME <->	24	X	30	1			5.00				1	1	
0010	3.25	R1-1F	STOP (FOLDING)	30	X	30	1				5.18			1	1	
0010	3.26	R1-1F	STOP (FOLDING)	30	X	30					5.18			1		ON SIGNAL POLE
0010	3.27	R4-7	KEEP RIGHT	24	X	30				5.00				1		SAME POST AS 3.26
0010	3.28	R4-7	KEEP RIGHT	24	X	30	1			5.00				1	1	
0010	3.29	R1-1F	STOP (FOLDING)	30	X	30					5.18			1		SAME POST AS 3.29
0010	3.30	R1-1F	STOP (FOLDING)	30	X	30					5.18			1		ON SIGNAL POLE
0010	3.31	R4-7	KEEP RIGHT	24	X	30				5.00				1		SAME POST AS 3.15
0010	3.32	J4-1	EAST COUNTY BB	24	X	36				3.88				1		ON SIGNAL POLE
0010	3.33	R7-1D	NO PARKING ANY TIME <->	24	X	30				5.00						ON SIGNAL POLE
0010	3.34	R2-1	SPEED LIMIT 40	30	X	36		1		7.50				1		
0010	3.35	R2-1	SPEED LIMIT 40	30	X	36		1		7.50				1	1	
0010	3.36	R7-1D	NO PARKING ANY TIME <->	24	X	30	1			5.00				1	1	
0010	3.37	R4-7	KEEP RIGHT	24	X	30	1			5.00						
0010	3.38	D1-65	S 6TH ST NEXT SIGNAL	72	X	30	2			15.00						
0010	3.39	M1-94H	W RAWSON AVE	96	X	18				12.00				1		ON MASTARM
0010	3.40	M1-94H	W RAWSON AVE	96	X	18				12.00				1		ON MASTARM
0010	3.41	M1-94H	S 6TH ST	60	X	18				7.50				1		ON MASTARM
0010	3.42	M1-94H	S 6TH ST	60	X	18				7.50				1		ON MASTARM
0010	3.43	R3-7R	RIGHT LANE MUST TURN RIGHT	30	X	30	1			6.25						
0010	3.44	R3-7R	RIGHT LANE MUST TURN RIGHT	30	X	30	1			6.25						
0010	3.45	R3-52C	CURB LANE	30	X	42		1		8.75						
0010	3.46	R3-52C	CURB LANE	30	X	42		1		8.75						
0010	4.01	R7-1D	NO PARKING ANY TIME <->	24	X	30	1			5.00				1	1	
0010	4.02	R7-1D	NO PARKING ANY TIME <->	24	X	30	1			5.00				1	1	
0010	4.03	R4-7	KEEP RIGHT	24	X	30	1			5.00						
0010	4.04	W11-2	PED XING	36	X	36		1				9.00				
0010	4.05	W16-7R	DIAGONAL ARROW DOWN RT	30	X	18						3.75				SAME POST AS 4.04
0010	4.06	R7-1D	NO PARKING ANY TIME <->	24	X	30	1			5.00				1	1	
0010	4.07	W11-2	PED XING	36	X	36		1				9.00				
0010	4.08	W16-7R	DIAGONAL ARROW DOWN LT	30	X	18						3.75				SAME POST AS 4.07
0010	4.09	W11-2	PED XING	36	X	36		1				9.00				
0010	4.10	W16-7R	DIAGONAL ARROW DOWN RT	30	X	18						3.75				SAME POST AS 4.09
0010	4.11	R7-1D	NO PARKING ANY TIME <->	24	X	30	1			5.00				1	1	
0010	4.12	R4-7	KEEP RIGHT	24	X	30	1			5.00						
0010	4.13	R4-7	KEEP RIGHT	24	X	30	1			5.00						
0010	4.14	R7-1D	NO PARKING ANY TIME <->	24	X	30	1			5.00						
0010	4.15		SIGNAL AHEAD											2	2	
0010	4.16	J1-1	JCT STH 38	24	X	39		1		6.50						
0010	4.17	J1-1	JCT STH 38	24	X	39		1		6.50						
0010	4.18		JCT STH 38											2	2	
0010	4.19	W11-2	PED XING	36	X	36		1				9.00				
0010	4.20	W16-7R	DIAGONAL ARROW DOWN LT	30	X	18						3.75				
0010	4.21	R1-1	STOP	30	X	30				5.18						
0010	4.22	R4-7	KEEP RIGHT	24	X	30	1			5.00				1		
0010	4.23	R3-7R	RIGHT LANE MUST TURN RIGHT	30	X	30	1			6.25						
0010	4.24	R3-7R	RIGHT LANE MUST TURN RIGHT	30	X	30	1			6.25						
0010	4.25	R3-52C	CURB LANE	30	X	42		1		8.75						
0010	5.01	D1-65	S HOWELL AVE NEXT SIGNAL	84	X	30	2			17.50				1	2	

SIGNING

CATEGORY	SIGN NO.	SIGN CODE	DESCRIPTION	SIZE INCHES	X	SIZE INCHES	634.0811 POSTS TUBULAR STEEL 2X2-INCH X 11-FT EACH	634.0812 POSTS TUBULAR STEEL 2X2-INCH X 12-FT EACH	634.0814 POSTS TUBULAR STEEL 2X2-INCH X 14-FT EACH	637.2210 SIGNS TYPE II REFLECTIVE H SF	637.2215 SIGNS TYPE II REFLECTIVE H FOLDING SF	637.2230 SIGNS TYPE II REFLECTIVE F SF	637.2235 SIGNS TYPE II REFLECTIVE F FOLDING SF	638.2602 REMOVING SIGNS TYPE II EACH	638.3000 REMOVING SMALL SIGN SUPPORTS EACH	REMARKS
0010	5.02	R3-20L	BEGIN LEFT TURN LANE	24	X	36		1		6.00				1	1	
0010	5.03	R2-1	SPEED LIMIT 40	30	X	36		1		7.50				1	1	
0010	5.04	R2-1	SPEED LIMIT 40	30	X	36		1		7.50						
0010	5.05	R7-1D	NO PARKING ANY TIME <->	24	X	30	1			5.00				1	1	
0010	5.06	R3-8LL	DUAL LEFT ONLY	36	X	30	1			7.50				1	1	
0010	5.07	R7-1D	NO PARKING ANY TIME <->	24	X	30	1			5.00						
0010	5.08	R7-1D	NO PARKING ANY TIME <->	24	X	30	1			5.00						
0010	5.09	R7-1D	NO PARKING ANY TIME <->	24	X	30	1			5.00				1	1	
0010	5.10	J2-2	NORTH/SOUTH STH 38 ADV LEFT/RIGHT	48	X	57			1	19.00				1	1	
0010	5.11	J2-2	NORTH/SOUTH STH 38 ADV LEFT/RIGHT	48	X	57			1	19.00				1	1	
0010	5.12	R3-7R	RIGHT LANE MUST TURN RIGHT	30	X	30	1			6.25				1	1	
0010	5.13	J3-1	SOUTH STH 38 DIAGONAL RT UP	24	X	57			1	9.50				1	1	
0010	5.14	J3-1	NORTH STH 38 LT	24	X	57			1	9.50				1	1	
0010	5.15	J4-1	WEST COUNTY BB	24	X	36		1		3.88				1	1	
0010	5.16	R3-7R	RIGHT LANE MUST TURN RIGHT	30	X	30	1			6.25						
0010	6.01	R7-1D	NO PARKING ANY TIME <->	24	X	30	1			5.00						
0010	6.02		MERGE LEFT											1	1	
0010																
						TOTAL 0010	63	38	8	820.21	103.60	95.00	27.00	116	60	

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TRAFFIC CONTROL

CATEGORY	STAGE	DAYS	EACH*	643.0300 TRAFFIC CONTROL DRUMS DAY	EACH*	643.0420 TRAFFIC CONTROL BARRICADES TYPE III DAY	643.0500 TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER POSTS EACH	643.0600 TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER BASES EACH	EACH*	643.0705 TRAFFIC CONTROL WARNING LIGHTS TYPE A DAY	EACH*	643.0715 TRAFFIC CONTROL WARNING LIGHTS TYPE C DAY	EACH*	643.0800 TRAFFIC CONTROL ARROW BOARDS DAY	EACH*	643.0900 TRAFFIC CONTROL SIGNS DAY	643.0920 TRAFFIC CONTROL COVERING SIGNS TYPE II EACH	EACH*	643.1050 TRAFFIC CONTROL SIGNS PCMS DAY	643.3180 TEMPORARY MARKING LINE REMOVABLE TAPE 6-INCH LF	643.3280 TEMPORARY MARKING LINE REMOVABLE TAPE 10-INCH LF	643.3550 TEMPORARY MARKING ARROW REMOVABLE TAPE EACH	643.3650 TEMPORARY MARKING WORD REMOVABLE TAPE EACH	643.3850 TEMPORARY MARKING STOP LINE REMOVABLE TAPE 18-INCH LF	643.3950 TEMPORARY MARKING DIAGONAL REMOVABLE TAPE 12-INCH LF	643.5000 TRAFFIC CONTROL EACH	644.1440 TEMPORARY PEDESTRIAN SURFACE MATTING SF	EACH*	644.1601 TEMPORARY PEDESTRIAN CURB RAMP DAY	644.1605 TEMPORARY PEDESTRIAN DETECTABLE WARNING FIELD SF	644.1810 TEMPORARY PEDESTRIAN BARRICADE LF
0010	STAGE 1	14	550	7,700	64	896	--	--	128	1,792	76	3,496	5	70	135	1,890	--	2	14	3,880	780	--	--	--	--	--	--	--	--	--	--
SUBTOTAL				7,700		896	--	--		1,792		3,496		70		1,890	--		14	3,880	780	--	--	--	--	--	--		--	--	--
0010	STAGE 2A	46	641	29,486	104	4,784	263	263	208	9,568	100	4,600	5	230	215	9,890	1	2	14	15,690	1,510	12	4	70	150	--	40	1	46	30	135
0010	STAGE 2B	46	620	28,520	119	5,474	293	293	238	10,948	104	4,784	5	230	226	10,396	--	2	14	2,600	--	--	--	35	--	--	--	--	46	--	--
SUBTOTAL				58,006		10,258	556	556		20,516		9,384		460		20,286	1		28	18,290	1,510	12	4	105	150	--	40		92	30	135
0010	STAGE 3A	46	689	31,694	109	5,014	215	215	218	10028	113	5198	6	276	216	9936	--	2	14	14,615	1,760	12	2	90	--	--	--	--	--	--	12
0010	STAGE 3B	46	721	33,166	120	5,520	245	245	240	11040	120	5520	6	276	226	10396	--	2	14	3,475	--	--	--	30	--	--	--	--	--	--	--
SUBTOTAL				64,860		10,534	460	460		21,068		10,718		552		20,332	--		28	18,090	1,760	12	2	120	--	--	--		--	--	12
0010	STAGE 4	30	660	19,795	128	3,840	--	--	256	7,680	33	990	1	30	191	5,730	--	2	14	5,440	1,295	5	2	--	--	--	--	--	--	--	--
SUBTOTAL				19,795		3,840	--	--		7,680		990		30		5,730	--		14	5,440	1,295	5	2	--	--	--	--		--	--	--
0010	STAGE 5A	23	659	15,157	72	1,656	--	--	144	3,312	28	644	1	23	148	3,404	--	2	14	--	--	--	--	--	--	--	--	--	--	--	--
0010	STAGE 5B	23	431	9,913	45	1,035	--	--	90	2,070	14	322	1	23	86	1,978	--	2	14	--	--	--	--	--	--	--	--	--	--	--	--
SUBTOTAL				25,070		2,691	--	--		5,382		966		46		5,382	--		28	--	--	--	--	--	--	--	--		--	--	--
0010	UNDISTRIBUTED			9,569		1,781	184	184		3,562		4,446		342		2,380	9		38	4,300	655	6	2	75	50	1	10		28	20	53
	TOTAL 0010			**185,000**		**30,000**	**1,200**	**1,200**		**60,000**		**30,000**		**1,500**		**56,000**	**10**		**150**	**50,000**	**6,000**	**35**	**10**	**300**	**200**	**1**	**50**		**120**	**50**	**200**

*** FOR INFORMATIONAL USE ONLY**

PAVEMENT MARKING

CATEGORY	STATION	TO	STATION	646.2020 MARKING LINE EPOXY 6-INCH (WHITE)* (12.5' LINE 37.5' SKIP)* LF	646.2020 MARKING LINE EPOXY 6-INCH (WHITE)* (3' DASH 9' SKIP)* LF	646.2020 MARKING LINE EPOXY 6-INCH (WHITE)* LF	646.2020 MARKING LINE EPOXY 6-INCH (YELLOW)* LF	646.4020 MARKING LINE EPOXY 10-INCH (WHITE)* (3' DASH 9' SKIP)* LF	646.4020 MARKING LINE EPOXY 10-INCH (WHITE)* LF	646.5020 MARKING ARROW EPOXY (TYPE 2)* EACH	646.5120 MARKING WORD EPOXY (ONLY)* EACH	646.6120 MARKING STOP LINE EPOXY 18-INCH (WHITE)* LF	646.6220 MARKING YIELD LINE EPOXY 18-INCH (WHITE)* EACH	646.7120 MARKING DIAGONAL EPOXY 12-INCH (WHITE)* LF	646.7420 MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH (WHITE)* LF	646.9000 MARKING REMOVAL LINE 4-INCH LF	646.9100 MARKING REMOVAL LINE 8-INCH LF	646.9200 MARKING REMOVAL LINE WIDE LF	646.9300 MARKING REMOVAL SPECIAL MARKING EACH
0010	7+50	-	22+75	825	25	1,690	640	168	1,950	21	11	350	14	25	1,440	250	30	120	-
0010	22+75	-	34+50	588	-	4,590	-	27	580	1	-	-	-	710	-	-	-	-	-
0010	34+50	-	48+00	788	30	3,940	-	51	2,090	12	6	190	-	540	760	65	190	120	6
0010	48+00	-	57+50	400	25	2,770	190	27	690	7	2	25	-	420	530	-	-	-	-
0010	57+50	-	A-A	550	-	1,620	-	159	1,570	18	9	130	-	670	-	340	445	150	5
0010	A-A	-		188	-	580	-	27	150	1	-	-	-	240	-	40	-	-	-
0010			SUBTOTAL	3339	80	15,190	830	459	7,030										
0010			UNDISTRIBUTED		1,561			511				305		395	770	205	235	210	4
			TOTAL 0010		**21,000**			**8,000**		**60**	**28**	**1,000**	**14**	**3,000**	**3,500**	**900**	**900**	**600**	**15**

* FOR INFORMATIONAL USE ONLY

COLD WEATHER MARKING EPOXY

CATEGORY	STATION	TO	STATION	646.6466 COLD WEATHER MARKING EPOXY 6-INCH (WHITE)* (12.5' LINE 37.5' SKIP)* LF	646.6466 COLD WEATHER MARKING EPOXY 6-INCH (WHITE)* (3' DASH 9' SKIP)* LF	646.6466 COLD WEATHER MARKING EPOXY 6-INCH (YELLOW)* LF	646.6466 COLD WEATHER MARKING EPOXY 6-INCH (CROSSWALK)* LF	646.6470 COLD WEATHER MARKING EPOXY 10-INCH (WHITE)* (3' DASH 9' SKIP)* LF	646.6470 COLD WEATHER MARKING EPOXY 10-INCH (WHITE)* LF
0010	7+50	-	22+75	825	25	640	1,440	168	1,950
0010	22+75	-	34+50	588	-	-	-	27	580
0010	34+50	-	48+00	788	30	-	760	51	2,090
0010	48+00	-	57+50	400	25	190	530	27	690
0010	57+50	-	A-A	550	-	-	-	159	1,570
0010	A-A	-		188	-	-	-	27	150
			SUBTOTAL	3339	80	830	2730	459	7,030
			UNDISTRIBUTED			21		11	
			TOTAL 0010			**7,000**		**7,500**	

* FOR INFORMATIONAL USE ONLY

CONDUIT

CATEGORY	LOCATION	FROM	TO	* 652.0225 CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH LF	652.0235 CONDUIT RIGID NONMETALLIC SCHEDULE 40 3-INCH LF	REMARKS
0010	CTH V (S. 13TH ST.) & CTH BB (W. RAWSON AVE.)					
0010		PB1	SB1	5	--	--
0010		PB2	SB4	5	--	--
0010		PB3	PB4	264	--	--
0010		PB6	SB6	15	--	--
0010		PB7	SB8	6	--	INTERCEPT EXISTING CONDUIT
0010		PB9	SB10	20	--	--
0010	S. 10TH. & CTH BB (W. RAWSON AVE.)					
0010		PB1	PB2	245	--	--
0010		PB1	PB3	--	134	2 RUNS
0010		PB3	PB4	--	108	2 RUNS
0010		PB4	PB5	--	128	2 RUNS
0010		PB4	SB2	--	10	INTERCEPT EXISTING CONDUIT
0010		PB4	SB3	16		--
0010		PB5	SB4	26	--	--
0010		PB6	PB7	--	116	2 RUNS
0010		PB7	SB7	32	--	--
0010		PB7	SB8	17	--	--
0010		PB7	PB8	269	--	--
0010		PB7	PB9	--	142	2 RUNS
0010		PB9	SB9	--	16	INTERCEPT EXISTING CONDUIT
0010		PB9	PB10	--	114	2 RUNS
0010		PB10	PB11	--	128	2 RUNS
0010		PB10	SB10	20	--	--
0010		PB10	SB11	26	--	--
0010		PB11	SB12	13	--	--
0010	S. 6TH. & CTH BB (W. RAWSON AVE.)					
0010		PB1	PB2	266	--	--
0010		PB3	PB1	--	6	INTERCEPT EXISTING 2-3"CONDUIT
0010		PB3	PB4	--	6	INTERCEPT EXISTING 2-3"CONDUIT
0010		PB4	SB4	19	--	--
0010		PB8	PB7	--	32	INTERCEPT EXISTING 2-3"CONDUIT
0010		PB8	SB7	32	--	--
0010		PB8	SB8	16	--	--
0010		PB8	PB9	254	--	--
0010		PB8	PB10	--	26	INTERCEPT EXISTING 2-3" CONDUIT
0010		PB10	PB11	--	26	INTERCEPT EXISTING 2-3" CONDUIT
0010		PB11	PB12	--	84	2 RUNS
0010		PB11	SB9	--	6	INTERCEPT EXISTING CONDUIT
0010		PB11	SB10	21	--	--
0010		PB11	SB11	27	--	--
0010		PB1	SB1	25	--	--
0010		PB1	SB2	38	--	--
0010	COMMUNICATION CONDUIT					
0010		CV2	CV3	410	--	--
0010		CV3	CV4	470	--	--
0010		CV4	CV5	70	--	--
0010		CV4	CV6	180	--	--
0010		CV6	CV7	390	--	--
0010		CV7	CV8	360	--	--
0010		CV9	PS1	100	--	CONDUIT TO PUMP STATION
0010		CV10	CV12	540	--	--
0010		CV12	CV13	310	--	--
0010		CV13	CV14	370	--	--
0010		CV14	CV15	500	--	--
0010		CV15	CV16	560	--	--
0010		CV16	CV17	70	--	--
0010	UNDISTRIBUTED			993	418	
	*ADDITIONAL QUANTITIES ELSEWHERE		**TOTAL 0010**	**7,000**	**1,500**	

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PULLBOXES

CATEGORY	LOCATION	652.0700.S INSTALL CONDUIT INTO EXISTING ITEM EACH	* 653.0135 PULL BOXES STEEL 24X36-INCH EACH	653.0140 PULL BOXES STEEL 24X42-INCH EACH	653.0900 ADJUSTING PULL BOXES EACH	653.0905 REMOVING PULL BOXES EACH
	CTH V (S. 13TH ST.) & CTH BB (W. RAWSON AVE.)					
0010	PB1	1	--	--	--	--
0010	PB2	1	--	--	1	--
0010	PB3	1	--	--	--	--
0010	PB4	--	1	--	--	1
0010	PB6	1	--	--	--	--
0010	PB9	1	--	--	--	--
	S. 10TH. & CTH BB (W. RAWSON AVE.)					
0010	PB1	1	--	--	1	--
0010	PB2	--	1	--	--	1
0010	PB3	--	--	1	--	1
0010	PB4	--	--	1	--	--
0010	PB5	1	--	--	--	--
0010	PB6	1	--	--	1	1
0010	PB7	--	--	1	--	1
0010	PB8	--	1	--	--	1
0010	PB9	--	--	1	--	--
0010	PB10	--	--	1	--	--
0010	PB11	1	--	--	--	--
	S. 6TH. & CTH BB (W. RAWSON AVE.)					
0010	PB1	1	--	--	1	--
0010	PB2	--	1	--	--	1
0010	PB3	--	--	1	--	--
0010	PB4	1	--	--	1	--
0010	PB5	1	--	--	--	--
0010	PB6	--	--	--	1	--
0010	PB8	--	--	1	--	1
0010	PB9	--	1	--	--	1
0010	PB10	--	--	1	--	1
0010	PB11	--	--	1	--	--
0010	PB12	1	--	--	--	--
0010	PB13	--	--	--	1	--
0010	RAWSON COMM					
0010	PB1	--	--	--	--	1
0010	EV2	--	--	--	--	1
0010	PB3	--	--	--	--	1
0010	PB6	--	--	--	--	1
0010	PB7	--	--	--	--	1
0010	PB8	--	--	--	--	1
0010	PB9	--	--	--	1	--
0010	CV8	1	--	--	--	--
0010	PS1	--	1	--	--	--
0010	CV10	1	--	--	--	--
*ADDITIONAL QUANTITIES ELSEWHERE	**TOTAL 0010**	**15**	**6**	**9**	**8**	**16**

CONCRETE BASES

CATEGORY	LOCATION	NO.	654.0101 CONCRETE BASES TYPE 1 EACH	654.0102 CONCRETE BASES TYPE 2 EACH
	CTH V (S. 13TH ST.) & CTH BB (W. RAWSON AVE.)			
0010		SB1	1	--
0010		SB4	1	--
0010		SB6	1	--
0010		SB8	1	--
0010		SB10	1	--
	S. 10TH. & CTH BB (W. RAWSON AVE.)			
0010		SB3	1	--
0010		SB4	1	--
0010		SB7	1	--
0010		SB8	1	--
0010		SB10	1	--
0010		SB11	1	--
0010		SB12	1	--
	S. 6TH. & CTH BB (W. RAWSON AVE.)			
0010		SB1	--	1
0010		SB2	1	--
0010		SB4	1	--
0010		SB7	1	--
0010		SB8	--	1
0010		SB10	1	--
0010		SB11	1	--
		TOTAL 0010	**17**	**2**

EVP

CATEGORY	FROM	THRU	TO	LOCATION	* 655.0210 CABLE TRAFFIC SIGNAL 3-14 AWG **(EVP LIGHT) LF	655.0900 TRAFFIC SIGNAL EVP DETECTOR CABLE LF
				S. 10TH. & CTH BB (W. RAWSON AVE.)		
0020	CB1	-	SB9 (EVP HEAD 3)		320	320
0020	CB1	-	SB2 (EVP HEAD 4)		210	210
0020	CB1	-	SB6 (EVP HEAD 5)		330	330
0020	CB1	-	SB13 (EVP HEAD 6)		120	120
				S. 6TH. & CTH BB (W. RAWSON AVE.)		
0020	CB1	-	SB9 (EVP HEAD 3)		270	270
0020	CB1	-	SB3 (EVP HEAD 4)		200	200
0020	CB1	-	SB6 (EVP HEAD 5)		340	340
0020	CB1	-	SB13 (EVP HEAD 6)		130	130
0020	CB1	-	LP1 (EVP HEAD 7)		650	650
				UNDISTRIBUTED	430	430
				TOTAL 0020	**3,000**	**3,000**

*ADDITIONAL QUANTITIES ELSEWHERE

**FOR INFORMATIONAL USE ONLY

LIGHTING ON TRAFFIC SIGNALS

CATEGORY	FROM	THRU	TO	LOCATION	655.0305 CABLE TYPE UF 2-12 AWG GROUNDED LF	655.0610 ELECTRICAL WIRE LIGHTING 12 AWG LF
				S. 10TH. & CTH BB (W. RAWSON AVE.)		
0020	CB1	-	SB1		20	--
0020	SB1	-	LUMIN (1)		--	123
0020	CB1	-	SB13		70	--
0020	SB13	-	LUMIN (1)		--	117
0020	SB13	-	SB9		210	--
0020	SB9	-	LUMIN (2)		--	234
0020	CB1	-	SB2		150	--
0020	SB2	-	LUMIN (1)		--	117
0020	SB2	-	SB6		140	--
0020	SB6	-	LUMIN (1)		--	117
				S. 6TH. & CTH BB (W. RAWSON AVE.)		
0020	CB1	-	SB1		50	--
0020	SB1	-	LUMIN (1)		--	123
0020	CB1	-	SB13		70	--
0020	SB13	-	LUMIN (1)		--	117
0020	SB13	-	SB12		110	--
0020	SB12	-	LUMIN (1)		--	123
0020	SB12	-	SB9		70	--
0020	SB9	-	LUMIN (1)		--	117
0020	CB1	-	SB3		140	--
0020	SB3	-	LUMIN (1)		--	117
0020	SB3	-	SB5		60	--
0020	SB5	-	LUMIN (1)		--	123
0020	SB5	-	SB6		150	--
0020	SB6	-	LUMIN (1)		--	117
0020	SB6	-	SB8		80	--
0020	SB8	-	LUMIN (1)		--	123
				UNDISTRIBUTED	180	332
				TOTAL 0020	**1,500**	**2,000**

LOOPS

CATEGORY	LOCATION	SDD	652.0800 CONDUIT LOOP DETECTOR LF	655.0700 LOOP DETECTOR LEAD IN CABLE LF	655.0800 LOOP DETECTOR WIRE LF	REMARKS
0010	S. 10TH. & CTH BB (W. RAWSON AVE.)					
0010	LOOP 1	9F15-4B	65	595	385	6'x6', 6 TURNS
0010	LOOP 2	9F15-4B	55	595	325	6'x6', 6 TURNS
0010	LOOP 3	9F15-4B	45	595	265	6'x6', 6 TURNS
0010	LOOP 4	9F15-4B	55	280	165	6'x6', 3 TURNS
0010	LOOP 5	9F15-4B	45	280	135	6'x6', 3 TURNS
0010	LOOP 6	9F15-4B	40	280	120	6'x6', 3 TURNS
0010	LOOP 7	9F15-4B	65	100	190	6'x20', 3 TURNS
0010	LOOP 8	9F15-4B	70	100	205	6'x20', 3 TURNS
0010	LOOP 9	9F15-4B	65	255	190	6'x20', 3 TURNS
0010	LOOP 10	9F15-4B	70	255	205	6'x20', 3 TURNS
0010	LOOP 11	9F15-4B	75	135	220	6'x20', 3 TURNS
0010	LOOP 12	9F15-4B	75	135	220	6'x20', 3 TURNS
0010	LOOP 13	9F15-4B	65	135	190	6'x20', 3 TURNS
0010	LOOP 14	9F15-4B	65	135	190	6'x20', 3 TURNS
0010	LOOP 15	9F15-4B	100	515	295	6'x30', 3 TURNS
0010	LOOP 16	9F15-4B	90	485	265	6'x30', 3 TURNS
0010	S. 6TH. & CTH BB (W. RAWSON AVE.)					
0010	LOOP 1	9F15-4B	65	605	385	6'x6', 6 TURNS
0010	LOOP 2	9F15-4B	55	605	325	6'x6', 6 TURNS
0010	LOOP 3	9F15-4B	50	605	280	6'x6', 6 TURNS
0010	LOOP 4	9F15-4B	70	305	200	6'x6', 3 TURNS
0010	LOOP 5	9F15-4B	55	305	165	6'x6', 3 TURNS
0010	LOOP 6	9F15-4B	45	305	135	6'x6', 3 TURNS
0010	LOOP 7	9F15-4B	65	105	190	6'x20', 3 TURNS
0010	LOOP 8	9F15-4B	65	105	190	6'x20', 3 TURNS
0010	LOOP 9	9F15-4B	65	275	190	6'x20', 3 TURNS
0010	LOOP 10	9F15-4B	65	275	195	6'x20', 3 TURNS
0010	LOOP 11	9F15-4B	95	175	280	6'x20', 3 TURNS
0010	LOOP 12	9F15-4B	100	175	295	6'x20', 3 TURNS
0010	LOOP 13	9F15-4B	80	175	235	6'x20', 3 TURNS
0010	LOOP 14	9F15-4B	90	175	265	6'x20', 3 TURNS
0010	LOOP 15	9F15-4B	70	175	205	6'x20', 3 TURNS
0010	LOOP 16	9F15-4B	80	175	235	6'x20', 3 TURNS
0010	LOOP 17	9F15-4B	115	195	340	6'x30', 3 TURNS
0010	LOOP 18	9F15-4B	105	195	310	6'x30', 3 TURNS
0010	LOOP 19	9F15-4B	95	195	280	6'x30', 3 TURNS
0010	UNDISTRIBUTED		525	1,000	735	
	TOTAL 0010		**3,000**	**11,000**	**9,000**	

3

CTH V (S. 13TH ST.) & CTH BB (W. RAWSON AVE.) - SIGNAL CABLE

CATEGORY	FROM	THRU	TO	* 655.0210 CABLE TRAFFIC SIGNAL 3-14 AWG LF	* 655.0230 CABLE TRAFFIC SIGNAL 5-14 AWG LF	* 655.0240 CABLE TRAFFIC SIGNAL 7-14 AWG LF	* 655.0260 CABLE TRAFFIC SIGNAL 12-14 AWG LF	* 655.0515 ELECTRICAL WIRE TRAFFIC SIGNALS 10 AWG GREEN LF
0010	CB1	PB1	SB1	--	--	--	45	--
0010	CB1	PB1, PB2	SB4	--	140	--	--	--
0010	CB1	PB9, PB8, PB7, PB6	SB6	--	--	--	275	--
0010	CB1	PB9, PB8, PB7	SB7	--	185	--	--	--
0010	CB1	PB9, PB8, PB7	SB8	--	--	--	200	--
0010	CB1	PB1	SB10	--	--	40	--	--
0010	CB1	PB1	SB1	--	--	--	--	45
0010	SB2	PB2	SB4	--	--	--	--	20
0010	SB5	PB5, PB6	SB6	--	--	--	--	80
0010	SB7	PB7	SB8	--	--	--	--	45
0010	SB9	PB9	SB10	--	--	--	--	40
0010	BASE TO SIGNAL HEAD WIRING			155	370	405	--	--
0010	UNDISTRIBUTED			45	105	155	180	70
			TOTAL 0010	**200**	**800**	**600**	**700**	**300**

*ADDITIONAL QUANTITIES ELSEWHERE

S. 10TH. & CTH BB (W. RAWSON AVE.)- SIGNAL CABLE

CATEGORY	FROM	THRU	TO	* 655.0210 CABLE TRAFFIC SIGNAL 3-14 AWG LF	* 655.0230 CABLE TRAFFIC SIGNAL 5-14 AWG LF	* 655.0240 CABLE TRAFFIC SIGNAL 7-14 AWG LF	* 655.0260 CABLE TRAFFIC SIGNAL 12-14 AWG LF	* 655.0280 CABLE TRAFFIC SIGNAL 19-14 AWG LF	* 655.0515 ELECTRICAL WIRE TRAFFIC SIGNALS 10 AWG GREEN LF
0010	CB1	PB1	SB1	--	--	--	--	40	--
0010	CB1		CB1	--	20	--	--	--	--
0010	CB1	PB1, PB3, PB4	SB2	--	--	--	165	--	--
0010	CB1	PB1, PB3, PB4	SB3	--	--	170	--	--	--
0010	CB1	PB1, PB3, PB4, PB5	SB4	--	--	250	--	--	--
0010	CB1	PB1, PB3, PB4, PB5	SB5	--	--	--	225	--	--
0010	CB1	PB1, PB3, PB4, PB5, PB6	SB6	--	--	--	285	--	--
0010	CB1	PB12, PB11, PB10, PB9, PB7	SB7	--	--	370	--	--	--
0010	CB1	PB12, PB11, PB10, PB9, PB7	SB8	--	--	--	355	--	--
0010	CB1	PB12, PB11, PB10, PB9	SB9	--	--	--	275	--	--
0010	CB1	PB12, PB11, PB10	SB10	--	--	215	--	--	--
0010	CB1	PB12, PB11, PB10	SB11	--	--	225	--	--	--
0010	CB1	PB12, PB11	SB12	--	--	--	140	--	--
0010	CB1	PB12	SB13	--	--	--	65	--	--
0010	CB1	PB1	SB1	--	--	--	--	--	40
0010	CB1	PB1, PB3, PB4	SB2	--	--	--	--	--	160
0010	SB2	PB4	SB3	--	--	--	--	--	35
0010	SB3	PB4, PB5	SB4	--	--	--	--	--	120
0010	SB4	PB5	SB5	--	--	--	--	--	35
0010	SB5	PB5, PB6	SB6	--	--	--	--	--	75
0010	SB6	PB6, PB7	SB7	--	--	--	--	--	105
0010	SB7	PB7	SB8	--	--	--	--	--	55
0010	SB8	PB7, PB9	SB9	--	--	--	--	--	115
0010	SB9	PB9, PB10	SB10	--	--	--	--	--	100
0010	SB10	PB10	SB11	--	--	--	--	--	50
0010	SB11	PB10, PB11	SB12	--	--	--	--	--	115
0010	SB12	PB11, PB12	SB13	--	--	--	--	--	90
0010	SB13	PB12	CB1	--	--	--	--	--	65
0010	PB1		CB1	--	--	--	--	--	20
0010	PB3	PB4	SB2	--	--	--	--	--	75
0010	PB4		SB2	--	--	--	--	--	15
0010	PB5		SB5	--	--	--	--	--	10
0010	PB6		SB6	--	--	--	--	--	10
0010	PB7		SB8	--	--	--	--	--	40
0010	PB9		SB9	--	--	--	--	--	25
0010	PB10		SB11	--	--	--	--	--	35
0010	PB11		SB12	--	--	--	--	--	20
0010	PB12		SB13	--	--	--	--	--	15
0010	BASE TO SIGNAL HEAD WIRING			160	530	145	--	--	--
0010	UNDISTRIBUTED			140	150	125	90	60	175
			TOTAL 0010	**300**	**700**	**1,500**	**1,600**	**100**	**1,600**

*ADDITIONAL QUANTITIES ELSEWHERE

S. 6TH. & CTH BB (W. RAWSON AVE.) - SIGNAL CABLE

CATEGORY	FROM	THRU	TO	LOCATION	* 655.0210 CABLE TRAFFIC SIGNAL 3-14 AWG LF	* 655.0230 CABLE TRAFFIC SIGNAL 5-14 AWG LF	* 655.0240 CABLE TRAFFIC SIGNAL 7-14 AWG LF	* 655.0260 CABLE TRAFFIC SIGNAL 12-14 AWG LF	* 655.0280 CABLE TRAFFIC SIGNAL 19-14 AWG LF	* 655.0515 ELECTRICAL WIRE TRAFFIC SIGNALS 10 AWG GREEN LF
0010	CB1	PB1	SB1		--	--	--	--	45	--
0010	CB1	PB1	SB2		--	60	--	--	--	--
0010	CB1	PB1, PB3, PB4	SB3		--	--	--	155	--	--
0010	CB1	PB1, PB3, PB4	SB4		--	--	--	165	--	--
0010	CB1	PB1, PB3, PB4, PB5	SB5		--	--	--	205	--	--
0010	CB1	PB1, PB3, PB4, PB5, PB6, PB7	SB6		--	--	--	310	--	--
0010	CB1	PB14, PB13, PB12, PB11, PB10, PB8	SB7		--	--	400	--	--	--
0010	CB1	PB14, PB13, PB12, PB11, PB10, PB8	SB8		--	--	--	380	--	--
0010	CB1	PB14, PB13, PB12, PB11	SB9		--	--	--	230	--	--
0010	CB1	PB14, PB13, PB12, PB11	SB10		--	--	245	--	--	--
0010	CB1	PB14, PB13, PB12, PB11	SB11		--	--	250	--	--	--
0010	CB1	PB14, PB13, PB12	SB12		--	--	--	180	--	--
0010	CB1	PB14	SB13		--	--	--	80	--	--
0010	CB1	PB1	SB1		--	--	--	--	--	45
0010	CB1	PB1	SB2		--	--	--	--	--	60
0010	CB1	PB1, PB3, PB4	SB3		--	--	--	--	--	155
0010	SB3	PB4	SB4		--	--	--	--	--	30
0010	SB4	PB4, PB5	SB5		--	--	--	--	--	80
0010	SB5	PB5, PB6, PB7	SB6		--	--	--	--	--	120
0010	SB6	PB7, PB8	SB7		--	--	--	--	--	110
0010	SB7	PB8	SB8		--	--	--	--	--	60
0010	SB8	PB8, PB10, PB11	SB9		--	--	--	--	--	175
0010	SB9	PB11	SB10		--	--	--	--	--	35
0010	SB10	PB11	SB11		--	--	--	--	--	55
0010	SB11	PB11, PB12	SB12		--	--	--	--	--	90
0010	SB12	PB12, PB13, PB14	SB13		--	--	--	--	--	115
0010	SB13	PB14	CB1		--	--	--	--	--	80
0010	PB1		CB1		--	--	--	--	--	25
0010	PB3	PB4	SB3		--	--	--	--	--	60
0010	PB4		SB3		--	--	--	--	--	15
0010	PB5		SB5		--	--	--	--	--	15
0010	PB6	PB7	SB6		--	--	--	--	--	60
0010	PB7		SB6		--	--	--	--	--	15
0010	PB8		SB7		--	--	--	--	--	40
0010	PB10	PB11	SB9		--	--	--	--	--	75
0010	PB11		SB9		--	--	--	--	--	15
0010	PB12		SB12		--	--	--	--	--	15
0010	PB13	PB14	SB13		--	--	--	--	--	50
0010	PB14		SB13		--	--	--	--	--	15
0010		BASE TO SIGNAL HEAD WIRING			160	640	390	--	--	--
0010		UNDISTRIBUTED			40	100	215	195	55	190
				TOTAL 0010	**200**	**800**	**1,500**	**1,900**	**100**	**1,800**

*ADDITIONAL QUANTITIES ELSEWHERE

3

TRAFFIC SIGNAL POLES

CATEGORY	LOCATION	657.0100 PEDESTAL BASES EACH	657.0255 TRANSFORMER BASES BREAKAWAY 11 1/2-INCH BOLT CIRCLE EACH	657.0315 POLES TYPE 4 EACH	657.0405 TRAFFIC SIGNAL STANDARDS ALUMINUM 3.5-FT EACH	657.0425 TRAFFIC SIGNAL STANDARDS ALUMINUM 15-FT EACH	657.0430 TRAFFIC SIGNAL STANDARDS ALUMINUM 10-FT EACH	657.0614 LUMINAIRE ARMS SINGLE MEMBER 4-INCH CLAMP 8-FT EACH	659.1125 LUMINAIRES UTILITY LED C EACH
0010	CTH V (S. 13TH ST.) & CTH BB (W. RAWSON AVE.)								
0010	SB1	1	--	--	--	1	--	--	--
0010	SB4	1	--	--	1	--	--	--	--
0010	SB6	1	--	--	--	1	--	--	--
0010	SB8	1	--	--	--	1	--	--	--
0010	SB10	1	--	--	--	--	1	--	--
	S. 10TH. & CTH BB (W. RAWSON AVE.)								
0010	SB3	1	--	--	--	--	1	--	--
0010	SB4	1	--	--	--	--	1	--	--
0010	SB7	1	--	--	--	--	1	--	--
0010	SB8	1	--	--	--	1	--	--	--
0010	SB10	1	--	--	--	--	1	--	--
0010	SB11	1	--	--	--	--	1	--	--
0010	SB12	1	--	--	--	1	--	--	--
	S. 6TH. & CTH BB (W. RAWSON AVE.)								
0010	SB1	--	1	1	--	--	--	1	--
0010	SB2	1	--	--	1	--	--	--	--
0010	SB4	1	--	--	--	--	1	--	--
0010	SB7	1	--	--	--	--	1	--	--
0010	SB8	--	1	1	--	--	--	1	--
0010	SB10	1	--	--	--	--	1	--	--
0010	SB11	1	--	--	--	--	1	--	--
	TOTAL 0010	17	2	2	2	5	10	2	0
	S. 6TH. & CTH BB (W. RAWSON AVE.)								
0020	SB1	--	--	--	--	--	--	--	1
0020	SB8	--	--	--	--	--	--	--	1
	TOTAL 0020	0	0	0	0	0	0	0	2
	PROJECT TOTAL	**17**	**2**	**2**	**2**	**5**	**10**	**2**	**2**

TRAFFIC SIGNAL HEADS

CATEGORY	LOCATION	658.0173 TRAFFIC SIGNAL FACE 3S 12-INCH EACH	658.0174 TRAFFIC SIGNAL FACE 4S 12-INCH EACH	658.0416 PEDESTRIAN SIGNAL FACE 16-INCH EACH	*APS PUSH BUTTON EACH
0010	CTH V (S. 13TH ST.) & CTH BB (W. RAWSON AVE.)				
0010	SB1	1	1	1	1
0010	SB2	1	1	2	1
0010	SB3	--	1	--	--
0010	SB4	--	--	--	1
0010	SB5	1	1	1	1
0010	SB6	1	1	1	1
0010	SB7	1	1	1	1
0010	SB8	1	1	1	1
0010	SB9	1	1	--	--
0010	SB10	--	--	1	1
	S. 10TH. & CTH BB (W. RAWSON AVE.)				
0010	SB1	--	--	2	1
0010	CB1	--	--	--	1
0010	SB2	2	--	--	--
0010	SB3	--	--	1	1
0010	SB4	--	--	1	1
0010	SB7	--	--	1	1
0010	SB8	1	1	1	1
0010	SB9	2	--	--	--
0010	SB10	--	--	1	1
0010	SB11	--	--	1	1
0010	SB12	2	--	--	--
0010	S. 6TH. & CTH BB (W. RAWSON AVE.)				
0010	SB1	1	1	2	1
0010	SB2	--	--	--	1
0010	SB3	2	--	--	--
0010	SB4	--	--	2	2
0010	SB7	--	--	1	1
0010	SB8	1	1	1	1
0010	SB9	2	--	--	--
0010	SB10	--	--	1	1
0010	SB11	--	--	1	1
	TOTAL 0010	**20**	**11**	**24**	**24**

*FOR INFORMATION ONLY

COMMUNICATIONS VAULTS

CATEGORY		673.0110 COMMUNICATION VAULT TYPE ROUND EACH	SPV.0060.32 ADJUSTING COMMUNICATION VAULT EACH	SPV.0060.33 ADJUSTING COMMUNICATION VAULT ROUND EACH	NOTES
0010	CV2	1	--	--	
0010	CV3	1	--	--	
0010	CV4	1	--	--	
0010	CV5	1	--	--	
0010	CV6	1	--	--	
0010	CV7	1	--	--	
0010	CV8	--	1	--	
0010	CV9	1	--	--	
0010	CV10	--	--	1	
0010	CV11	--	--	1	
0010	CV12	1	--	--	
0010	CV13	1	--	--	
0010	CV14	1	--	--	
0010	CV15	1	--	--	
0010	CV16	1	--	--	
0010	CV17	1	--	--	
0010	UNDISTRIBUTED	--	--	--	
	TOTAL 0010:	**12**	**1**	**2**	

REMOVE AND REINSTALL CABLE

CATEGORY	FROM	THRU	TO	LOCATION	674.0300 REMOVE CABLE LF	SPV.0090.33 REMOVE AND REINSTALL VIDEO DETECTION CABLE LF	REMARKS
				S. 10TH. & CTH BB (W. RAWSON AVE.)			
0010	CB1	-	SB2 (PTZ CAMERA)		-	210	REMOVE AND REINSTALL CAMERA CABLE
0010	CB1	-	SB6 (VIDEO 02)		-	330	REMOVE AND REINSTALL CAMERA CABLE
0010	CB1	-	SB13 (VIDEO 01)		-	120	REMOVE AND REINSTALL CAMERA CABLE
				S. 6TH. & CTH BB (W. RAWSON AVE.)			
0010	CB1	-	SB13 (PTZ CAMERA)		-	130	REMOVE AND REINSTALL CAMERA CABLE
0010	CB1	-	SB13 (VIDEO 01)		-	150	REMOVE AND REINSTALL CAMERA CABLE
0010	CB1	-	SB6 (VIDEO 02)		-	340	REMOVE AND REINSTALL CAMERA CABLE
0010	CV3	-	CV8		2,100		
				UNDISTRIBUTED	400	220	
				TOTAL 0010	**2,500**	**1,500**	

FIBER OPTIC SPLICE AND TERMINATION

	678.0200 FIBER OPTIC SPLICE ENCLOSURE EACH	678.0300 FIBER OPTIC SPLICE EACH	678.0400 FIBER OPTIC TERMINATION EACH	NOTES
CV2	1	2	--	
CV4	1	4	--	
CB1 (10th)	--	--	4	
CV9	1	4	--	
PUMP STATION	--	--	4	
UNDISTRIBUTED	1	6	4	
TOTAL 0010:	**4**	**16**	**12**	

^ QUANTITIES FOR ITEMS IN THIS TABLE SHALL BE APPROVED BY THE ENGINEER PRIOR TO PERFORMING WORK

FIBER OPTIC CABLE AND TRACER WIRE

LOCATION FROM	TO	SPV.0090.30 PULL AND COIL EXISTING FIBER OPTIC CABLE LF	SPV.0090.31 FURNISH AND INSTALL 12 SM COMPOSITE FIBER OPTIC COMMUNICATIONS CABLE LF	SPV.0090.32 TRACER WIRE 10 AWG LF
CV2	CV9		2500	2100
CV4	CB1 (10th)		150	100
CPB1	PUMP STATION		150	100
CV2	CV3	250		
CV8	CV9	220		
UNDISTRIBUTED		80	200	200
TOTAL 0010:		**550**	**3000**	**2500**

MISCELLANEOUS ITEMS

CATEGORY	LOCATION	204.9060.S.01 REMOVING (ITEM DESCRIPTION) (01. TRAFFIC SIGNAL EQUIPMENT AT CTH V & CTH BB) EACH	204.9060.S.02 REMOVING (ITEM DESCRIPTION) (02. TRAFFIC SIGNAL EQUIPMENT AT S 10TH ST & CTH BB) EACH	204.9060.S.03 REMOVING (ITEM DESCRIPTION) (03. TRAFFIC SIGNAL EQUIPMENT AT S 6TH ST & CTH BB) EACH	658.5070.01 SIGNAL MOUNTING HARDWARE (LOCATION) (01. CTH V & CTH BB) EACH	658.5070.02 SIGNAL MOUNTING HARDWARE (LOCATION) (02. S 10TH ST & CTH BB) EACH	658.5070.03 SIGNAL MOUNTING HARDWARE (LOCATION) (03. S 6TH ST & CTH BB) EACH	SPV.0060.30 SPECIAL (CABINET MODIFICATION) EACH	SPV.0060.31 SPECIAL (ACCESSIBLE PEDESTRIAN PUSH BUTTON SYSTEM, 8 BUTTONS) EACH	SPV.0060.34 SPECIAL (INSTALL COMMUNICATIONS CONDUIT INTO PUMPING STATION) EACH	661.0201.01 TEMPORARY TRAFFIC SIGNALS FOR INTERSECTIONS (LOCATION) (01. S 6TH ST & CTH BB) EACH
0010	CTH V (S. 13TH ST.) & CTH BB (W. RAWSON AVE.)	1	--	--	1	--	--	1	1	--	--
0010	S. 10TH ST. & CTH BB (W. RAWSON AVE.)	--	1	--	--	1	--	1	1	--	--
0010	S. 6TH ST. & CTH BB (W. RAWSON AVE.)	--	--	1	--	--	1	1	1	--	1
0010	PUMPING STATION	--	--	--	--	--	--	--	--	1	--
	TOTAL 0010	1	1	1	1	1	1	3	3	1	1

CONVENTIONAL SYMBOLS

SECTION LINE
QUARTER LINE
SIXTEENTH LINE
NEW REFERENCE LINE
NEW R/W LINE
EXISTING R/W LINE
PROPERTY LINE
LOT, TIE, AND OTHER MINOR LINES
SLOPE INTERCEPT
CORPORATE LIMITS
UNDERGROUND FACILITY (COMMUNICATIONS, ELECTRIC, ETC)
FEE ACQUISITION AREA (HATCHING VARIES BY OWNER)
TEMP. LIMITED EASEMENT AREA
ALTERNATIVE TEMP. LIMITED EASEMENT AREA
EASEMENT AREA (HIGHWAY, PERMANENT LIMITED, OR RESTRICTED DEVELOPMENT)
TRANSMISSION STRUCTURES
BUILDING
BUILDING (TO BE REMOVED)
BRIDGE

PARCEL NUMBER (25)
UTILITY NUMBER (40)
SECTION CORNER
NOTATION FOR COMBUSTABLE FLUIDS
NOTATION FOR HIGH VOLTAGE TRANSMISSION LINES
R/W MONUMENT
NON-MONUMENTED R/W POINT
FOUND IRON PIN
VALVE (GAS, WATER, ETC.)
SIGN
OFF-PREMISE SIGN

ACCESS CONTROLLED BY ACQUISITION
NO ACCESS (BY STATUTORY AUTHORITY)
ACCESS RESTRICTED (BY PREVIOUS PROJECT OR CONTROL)
NO ACCESS (NEW HIGHWAY)
NATIONAL GEODETIC SURVEY MONUMENT
SIXTEENTH CORNER MONUMENT
PARALLEL OFFSETS

CONVENTIONAL UTILITY SYMBOLS

WATER	W
GAS	G
TELEPHONE	T
OVERHEAD TRANSMISSION LINES	OH
ELECTRIC	E
CABLE TELEVISION	TV
FIBER OPTIC	FO
SANITARY SEWER	SAN
STORM SEWER	SS
ELECTRIC TOWER	

	NON-COMPENSABLE	COMPENSABLE
POWER POLE		
TELEPHONE POLE		
TELEPHONE PEDESTAL		

CURVE DATA ABBREVIATIONS

LONG CHORD	LCH
LONG CHORD BEARING	LCB
RADIUS	R
DEGREE OF CURVE	D
CENTRAL ANGLE	Δ/DELTA
LENGTH OF CURVE	L
TANGENT	T
DIRECTION AHEAD	DA
DIRECTION BACK	DB

CONVENTIONAL ABBREVIATIONS

ACCESS RIGHTS	AR	OUTLOT	OL
ACRES	AC	PAGE	P
AHEAD	AH	POINT OF TANGENCY	PT
ALUMINUM	ALUM	PROPERTY LINE	PL
AND OTHERS	ET AL	RECORDED AS	(100')
BACK	BK	REEL / IMAGE	R/I
BLOCK	BLK	REFERENCE LINE	R/L
CENTERLINE	C/L	PERMANENT LIMITED EASEMENT	PLE
CERTIFIED SURVEY MAP	CSM	POINT OF BEGINNING	POB
CONCRETE	CONC	POINT OF CURVATURE	PC
COUNTY	CO	POINT OF COMPOUND CURVE	PCC
COUNTY TRUNK HIGHWAY	CTH	POINT OF INTERSECTION	PI
DISTANCE	DIST	RELEASE OF RIGHTS	ROR
CORNER	COR	REMAINING	REM
DOCUMENT NUMBER	DOC	RESTRICTIVE DEVELOPMENT EASEMENT	RDE
EASEMENT	EASE	RIGHT	RT
EXISTING	EX	RIGHT OF WAY	R/W
GAS VALVE	GV	SECTION	SEC
GRID NORTH	GN	SEPTIC VENT	SEPV
HIGHWAY EASEMENT	HE	SQUARE FEET	SF
IDENTIFICATION	ID	STATE TRUNK HIGHWAY	STH
LAND CONTRACT	LC	STATION	STA
LEFT	LT	TELEPHONE PEDESTAL	TP
MONUMENT	MON	TEMPORARY LIMITED EASEMENT	TLE
NATIONAL GEODETIC SURVEY	NGS	TRANSPORTATION PROJECT PLAT	TPP
NUMBER	NO	UNITED STATES HIGHWAY	USH
		VOLUME	V

NOTES:

COORDINATES ARE BASED ON THE WISCONSIN STATE PLANE COORDINATE SYSTEM, SOUTH ZONE, NORTH AMERICAN DATUM OF 1927, US SURVEY FOOT, GROUND. TO OBTAIN GRID COORDINATES MULTIPLY GROUND COORDINATES BY THE COMBINATION FACTOR 0.99993347.

ALL RIGHT-OF-WAY LINES DEPICTED IN THE NON-ACQUISITION AREAS ARE INTENDED TO RE-ESTABLISH EXISTING RIGHT-OF-WAY LINES AS DETERMINED FROM PREVIOUS PROJECTS, OTHER RECORDED DOCUMENTS, OR FROM CENTERLINE OF EXISTING PAVEMENTS.

DIMENSIONING FOR THE NEW RIGHT-OF-WAY IS MEASURED ALONG AND PERPENDICULAR TO THE SECTION LINE.

RIGHT-OF-WAY BOUNDARIES ARE DEFINED WITH COURSES OF THE PERIMETER OF THE HIGHWAY LANDS REFERENCED TO THE U.S. PUBLIC LAND SURVEY SYSTEM OR OTHER "SURVEYS" OF PUBLIC RECORD.

FOR THE CURRENT ACCESS/DRIVEWAY INFORMATION, CONTACT THE PLANNING UNIT OF MILWAUKEE COUNTY.

PARCEL AND UTILITY IDENTIFICATION NUMBERS MAY NOT POINT TO ALL AREAS OF ACQUISITION, AS NOTED ON THE DETAIL PAGES.

INFORMATION FOR THE BASIS OF EXISTING HIGHWAY RIGHT-OF-WAY POINTS OF REFERENCE AND ACCESS CONTROL ARE LISTED ON THE DETAIL PAGES.

A TEMPORARY LIMITED EASEMENT (TLE) IS A RIGHT FOR CONSTRUCTION PURPOSES, AS DEFINED HEREIN, INCLUDING THE RIGHT TO OPERATE NECESSARY EQUIPMENT THEREON, THE RIGHT OF INGRESS AND EGRESS, AS LONG AS REQUIRED FOR SUCH PUBLIC PURPOSE, INCLUDING THE RIGHT TO PRESERVE, PROTECT, REMOVE, OR PLANT THEREON ANY VEGETATION THAT THE HIGHWAY AUTHORITIES MAY DEEM DESIRABLE. ALL (TLEs) ON THIS PLAT EXPIRE AT THE COMPLETION OF THE CONSTRUCTION PROJECT FOR WHICH THIS INSTRUMENT IS GIVEN.

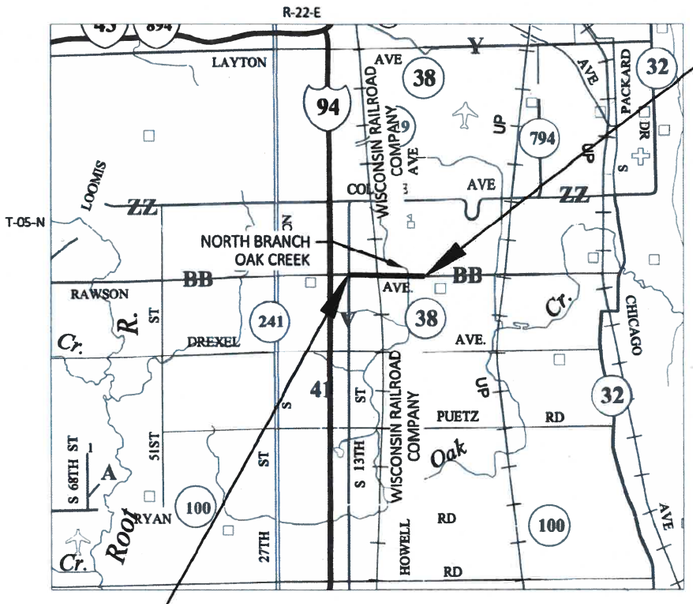
PROPERTY LINES SHOWN ON THIS PLAT ARE DRAWN FROM DATA DERIVED FROM MAPS AND DOCUMENTS OF PUBLIC RECORD AND/OR EXISTING OCCUPATIONAL LINES. THIS PLAT MAY NOT BE A TRUE REPRESENTATION OF EXISTING PROPERTY LINES, EXCLUDING RIGHT-OF-WAY, AND SHOULD NOT BE USED AS A SUBSTITUTE FOR AN ACCURATE FIELD SURVEY.

R/W PROJECT NUMBER	SHEET NUMBER	TOTAL SHEETS
2050-08-21		
CONSTRUCTION PROJECT NUMBER 2050-08-71	4.01	8

PLAT OF RIGHT OF WAY REQUIRED FOR

C OAK CREEK W RAWSON AVENUE (CTH BB)
S. 13TH STREET TO S. HOWELL AVENUE

CTH BB (W. RAWSON AVENUE)	MILWAUKEE COUNTY



LAYOUT
SCALE 0 2 MI

TOTAL NET LENGTH OF CENTERLINE = 1.01 MI

CAUTION:
THIS PLAT IS FOR ILLUSTRATIVE PURPOSES ONLY. DEEDS MUST BE CHECKED TO DETERMINE PROPERTY BOUNDARIES.

ORIGINAL PLANS PREPARED BY

GRAEF
275 W. WISCONSIN AVENUE, SUITE 300
MILWAUKEE, WI 53203

WISCONSIN
CARLA J. ROLLINS
S-3207
SHEBOYGAN, WI
LAND SURVEYOR

02/29/2024 (DATE) Carla J. Rollins (SIGNATURE)

APPROVED FOR
MILWAUKEE COUNTY
DEPARMENT OF TRANSPORTATION

DATE 3-4-24 Dawn Brown-Hunter (SIGNATURE)

REVISION DATE
04/30/2024 (1)
10/23/2024 (2)

FILE NAME : X:\ML\2023\20230800\DESIGN\TRANSPORTATION\SHEETSPLAN\040101_RT.DWG
PLOT DATE : 2/29/2024 2:51 PM
PLOT BY : ROLLINS, CARLA
PLOT NAME :

SCHEDULE OF LANDS & INTERESTS REQUIRED

OWNER'S NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANCE PRIOR TO THE TRANSFER OF LAND INTERESTS TO THE DEPARTMENT.

AREAS SHOWN IN THE TOTAL ACRES COLUMN MAY BE APPROXIMATE AND ARE DERIVED FROM TAX ROLLS OR OTHER AVAILABLE SOURCES AND MAY NOT INCLUDE LANDS OF THE OWNER WHICH ARE NOT CONTIGUOUS TO THE AREA TO BE ACQUIRED.

PARCEL NUMBER	SHEET NUMBER	OWNER(S)	INTERESTS REQUIRED	TOTAL SQ. FT.	R/W REQUIRED (SQUARE FEET) NEW	EXISTING	TOTAL	REMAINING SQ. FT.	T.L.E. SQ. FT.
1	4.05	SHANNON SCOTT; BRANDON GUTKNECHT; JANICE M. KAZMIERSKI; PAULINE B LOEWE; CAROL A WICHMANN, ROBERT E GUTKNECHT, GEORGE A GUTKNECHT AND DENISE GUTKNECHT, AS THEIR INTERESTS MAY APPEAR(1)	TLE	44170	0	0	0	44170	219
401	4.05	SHANNON SCOTT; BRANDON GUTKNECHT; JANICE M. KAZMIERSKI; PAULINE B LOEWE; CAROL A WICHMANN, ROBERT E GUTKNECHT, GEORGE A GUTKNECHT AND DENISE GUTKNECHT, AS THEIR INTERESTS MAY APPEAR(1)	TLE	44170	0	0	0	44170	1412
2	4.05	SHANNON SCOTT; BRANDON GUTKNECHT; JANICE M. KAZMIERSKI; PAULINE B LOEWE; CAROL A WICHMANN, ROBERT E GUTKNECHT, GEORGE A GUTKNECHT AND DENISE GUTKNECHT, AS THEIR INTERESTS MAY APPEAR	TLE	46479	0	0	0	46479	1072
402	4.05	SHANNON SCOTT; BRANDON GUTKNECHT; JANICE M. KAZMIERSKI; PAULINE B LOEWE; CAROL A WICHMANN, ROBERT E GUTKNECHT, GEORGE A GUTKNECHT AND DENISE GUTKNECHT, AS THEIR INTERESTS MAY APPEAR(1)	TLE	46479	0	0	0	46479	3698
3	4.05	EF REAL ESTATE, LLC, A WISCONSIN LIMITED LIABILITY COMPANY	TLE	187744	0	0	0	187744	2168
403	4.05	EF REAL ESTATE, LLC, A WISCONSIN LIMITED LIABILITY COMPANY(1)	TLE	187744	0	0	0	187744	14736
4	4.05, 4.06	SCHLUETER FAMILY LLC., A WISCONSIN LIMITED LIABILITY COMPANY	FEE	407286	1115	0	1115	406171	0
5	4.06, 4.07	OAK CREEK RAWSON INDUSTRIAL LLC	FEE	456465	50	0	50	456415	0
6	4.07	WEBMC, INC., A WISCONSIN CORPORATION	TLE	125932	0	0	0	125932	390
7	4.07	INDUSTRIAL INVESTMENTS, INC., A WISCONSIN CORPORATION	TLE	126498	0	0	0	126498	801
8	4.07	RIGOBERTO BECERRA	TLE	95832	0	0	0	95832	631
408	4.07	REMOVED(1)		0	0	0	0	0	0
9	4.07	DAVID KLINEDORF	TLE	95832	0	0	0	95832	574
409	4.07	DAVID KLINEDORF	TLE	95832	0	0	0	95832	3046
10	4.08	CITY OF OAK CREEK	TLE	200812	0	0	0	200812	18111
11	4.05	MICHAEL J. MARINOFF	TLE	57194	0	0	0	57194	412
12	4.05	SROA 1019 W. RAWSON WI, LLC. A DELAWARE LIMITED LIABILITY COMPANY	FEE & TLE	186219	726	0	726	185493	910
13	4.06	INTENTIONALLY OMITTED		0	0	0	0	0	0
14	4.07	WISCONSIN ELECTRIC POWER COMPANY	FEE	53971	400	0	400	53571	0
15	4.07	FARM AND FLEET OF JANESVILLE, INC. A WISCONSIN CORPORATION	FEE & TLE	603262	86	0	86	603176	1353
16	4.07	MICHAEL L. MARCHESE	TLE	17468	0	0	0	17468	942
416	4.07	MICHAEL L. MARCHESE	TLE	17468	0	0	0	17468	844
17	4.07	SANTIAGO MERCADO	TLE	17468	0	0	0	17468	988
417	4.07	SANTIAGO MERCADO	TLE	17468	0	0	0	17468	819
18	4.08	CITY OF OAK CREEK	TLE	297994	0	0	0	297994	18324
19	4.05	WESTMARK HOUSTON FD, LLC, A TEXAS LIMITED LIABILITY COMPANY	FEE	20038	200	0.000	200	19838	0

4

4

REVISION DATE 04/25/2024(1)

DATE 02/29/2024

GRID FACTOR N/A

SCALE, FEET 0 NTS

HWY: CTH BB

COUNTY: MILWAUKEE

STATE R/W PROJECT NUMBER 2050-08-21

CONSTRUCTION PROJECT NUMBER 2050-08-71

PLAT SHEET 4.02

PS&E SHEET 226

E

4

T 5 N R 6 5 6 5 22 E

T 5 N R 5 5 5 5 22 E

GN

CITY

OF

OAK CREEK

(CTH V)

WISCONSIN UNION RAILROAD COMPANY

WISCONSIN UNION RAILROAD COMPANY

1/4 SECTION LINE

LINE

W. RAWSON AVENUE (CTH BB)

R/L=SECTION LINE

110 115 120 125 130 135

S. 13TH STREET

S. 10TH ST.

SIXTEENTH

MATCH LINE

1 2 3 4 5 11 12 19

T 5 N R 6 5 7 8 22 E

T 5 N R 5 5 8 8 22 E

T 5 N R 7 8 7 8 22 E

T 5 N R 8 8 8 8 22 E

REVISION DATE 03/25/2024 N.C.	DATE 02/29/2024	SCALE, FEET 0 100 200	HWY: CTH BB	STATE R/W PROJECT NUMBER 2050-08-21	PLAT SHEET 4.03
	GRID FACTOR 0.99993347		COUNTY: MILWAUKEE	CONSTRUCTION PROJECT NUMBER 2050-08-71	PS&E SHEET 227 E

FILE NAME : 040301_RL.DWG
LAYOUT NAME - 040301_rl

PLOT DATE : 10/23/2024 1:58 PM PLOT BY : ROLLINS, CARLA PLOT NAME : PLOT SCALE : 1 IN:100 FT

4

4

T 5 N R 22 E — 5 5 / 5 5

T 5 N R 22 E — 5 4 / 5 4

GN

CITY

1/4 SECTION LINE

5 CONT.

6

7

8

9

OF

LINE

OAK CREEK

10

(STH 38)

W. RAWSON AVENUE (CTH BB)

140 145 150 155 160 163

R/L=SECTION LINE

T 5 N R 22 E — 5 5 / 8 8

14

S. 6TH ST.

15

16

17

SIXTEENTH

18

NORTH BRANCH

S. 1ST ST.

T 5 N R 22 E — 5 4 / 8 9

S. HOWELL AVENUE

MATCH LINE

OAK CREEK

T 5 N R 22 E — 8 8 / 8 8

T 5 N R 22 E — 8 9 / 8 9

REVISION DATE 04/25/2024 N.C.	DATE 02/29/2024	SCALE, FEET 0 100 200	HWY: CTH BB	STATE R/W PROJECT NUMBER 2050-08-21	PLAT SHEET 4.04
	GRID FACTOR 0.99993347		COUNTY: MILWAUKEE	CONSTRUCTION PROJECT NUMBER 2050-08-71	PS&E SHEET 228 E

FILE NAME : 040301_RL.DWG
LAYOUT NAME - 040302_rl

PLOT DATE : 10/23/2024 1:58 PM PLOT BY : ROLLINS, CARLA PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 75

BASIS OF EXISTING RIGHT-OF-WAY	
ROUTE	BASIS
RAWSON AVE.	ROW PLAT SU-035(11) Rev. 1/24/1968
	DOC 4306086
S. 10TH STREET	CSM 381
	CSM 3159
	CSM 1774

R/W STATION, OFFSET & COORDINATES TABLE				
PT #	STATION	OFFSET	NORTHING	EASTING
104	120+97.74	114.79' LT	340930.78	2555554.65
105	121+56.06	78.04' LT	340892.75	2555612.15
106	120+98.59	76.03' LT	340892.00	2555554.65
107	120+06.33	57.27' RT	340760.76	2555459.49
108	120+32.34	101.39' RT	340716.08	2555484.42
109	120+32.30	104.45' RT	340713.02	2555484.42
110	119+77.70	58.27' RT	340760.39	2555430.85
111	119+85.94	57.98' RT	340760.50	2555439.09

COURSE TABLE PARCEL 4		
POINT	BEARING	DISTANCE
104 - 105	N00°00'15"E	38.77
105 - 106	S56°31'19"E	68.93'
106 - 104	S89°15'25"W	57.51'

THE UTILITY INTERESTS SHOWN AS COMPENSABLE ON THIS PLAT ONLY REFLECT THOSE FACILITIES/EASEMENTS LOCATED IN THE SINGLE DIGIT PARCEL NUMBERS. THERE MAY BE ADDITIONAL UTILITY FACILITIES AFFECTED OR EASEMENTS THAT APPLY IF THE ALTERNATIVE PARCEL NUMBERS (IN THE 400 SERIES) ARE USED.

UTILITY INTERESTS REQUIRED		
UTILITY NUMBER	OWNER	INTEREST REQUIRED
100	WE ENERGIES - ELECTRIC	ROR
101	WE ENERGIES - GAS	ROR
102	AT&T WISCONSIN	ROR
103	TDS TELECOM	ROR
104	ATT LOCAL	ROR
105	MCI/VERIZON	ROR

CITY

SW-SW

S. 13TH STREET (CTH V)

S. 10TH STREET

W. RAWSON AVENUE (CTH BB)

OAK CREEK

NW-NW

SECTION LINE

FOUND CONCRETE MONUMENT WITH SEWRPC BRASS CAP N=343503.36 E=2554454.85

FOUND CONCRETE MONUMENT WITH SEWRPC BRASS CAP N=340840.09 E=2554454.66

FOUND CONCRETE MONUMENT WITH SEWRPC BRASS CAP N=338176.81 E=2554450.45

BEGIN RELOCATION ORDER
STA 110+00.00
N=340840.09
E=2554454.66

S00°00'15"W 2663.27'

N00°05'26"E 2663.28'

S88°44'35"E 2677.34'

S89° 23' 03"E 630.13'

N89° 15' 25"E 351.77'

10' WIDE PUBLIC UTILITY EASEMENT DOC. 6335601

6' WIDE PUBLIC DRAINAGE EASEMENT DOC. 5141079

CSM #5454 DOC. #6412035

PARCEL 1

PARCEL 2

1 TLE 219 SQ. FT.

2 TLE 1072 SQ. FT.

PAULINE B. LOEWE , ET. AL. TAX KEY NO. 735-903-6000

PAULINE B. LOEWE , ET. AL. TAX KEY NO. 735-903-7000

25' WIDE PUBLIC UTILITY AND DRAINAGE EASEMENT DOC. 6412035

VARIABLE WIDTH PERMANENT DRAINAGE EASEMENT TO MILWAUKEE COUNTY TO MAINTAIN PRIVATELY CONSTRUCTED MANHOLE AND PIPING DOC. 6476937 DOC. 6476936

CSM #3159 DOC. #5141079 PARCEL 3

3 TLE 2168 SQ. FT.

EF REAL ESTATE LLC TAX KEY NO. 735-903-3000

401 TLE 1412 SQ. FT.

402 TLE 3698 SQ. FT.

403 TLE 14736 SQ. FT.

15' WIDE PERMANENT WATER MAIN EASEMENT TO CITY OF OAK CREEK DOC. 6933734

ARC LENGTH=42.00'
CHORD LENGTH=42.00'
RADIUS=11394.17'
CHORD BEARING=S88°50'55"E

ARC LENGTH=397.68' CHORD LENGTH=397.66'
RADIUS=11394.17' CHORD BEARING=S89°44'35"E

ARC LENGTH=402.22'
CHORD LENGTH=402.20'
RADIUS=11524.17'
CHORD BEARING=S89°44'35"E

TLE (TYP.)

SLOPE INTERCEPT (TYP.)

20' WIDE WATER MAIN EASEMENT TO CITY OF OAK CREEK DOC. 5359065

10' WIDE SANITARY SEWER EASEMENT TO CITY OF OAK CREEK DOC. 7179983

BLANKET UTILITY EASEMENT DOC. 1397873

BLANKET UTILITY EASEMENTS DOC. 2728452 DOC. 1397873

6' WIDE UTILITY EASEMENT DOC. 4023793

10' WIDE SANITARY SEWER EASEMENT TO CITY OF OAK CREEK DOC. 4545555

10' WIDE WATER MAIN EASEMENT TO CITY OF OAK CREEK DOC. 5359065

20' X 30' SIGN LEASE AREA TO CITY OF OAK CREEK DOC. 7179983

10' WIDE DISTRIBUTION EASEMENT TO WE ENERGIES - GAS DOC. 10418818

10' WIDE UTILITY EASEMENT TO WE ENERGIES - GAS DOC. 7283024

10' WIDE UTILITY EASEMENT TO WE ENERGIES - ELECTRIC DOC. 7283024

20' X 30' SIGN LEASE AREA TO CITY OF OAK CREEK DOC. 7179982

CSM #381 DOC. #4182961 PARCEL 1

4 SCHLUETER FAMILY LLC TAX KEY NO. 735-900-2000

19 WESTMARK HOUSTON FD, LLC, A TEXAS LIMITED LIABILITY COMPANY TAX KEY NO. 764-904-1000

CSM #4295 DOC. #5601029 PARCEL 1

CSM #4295 DOC. #5601029 PARCEL 2

UNPLATTED LANDS

VACATED 13TH STREET

11 MICHAEL J. MARINOFF TAX KEY NO. 764-900-0000

CSM #85 DOC. #03834639 LOT 2 LOT 1

12 SROA 1019 W. RAWSON WI, LLC TAX KEY NO. 764-903-5001

PLAT OF SURVEY DATED 09/09/1946 HAROLD W. WARD

CSM #1774 DOC. #4653421 PARCEL 1

CSM #1774 DOC. #4653421 PARCEL 2

OF

SEE SHEET 4.06

SIXTEENTH MATCH LINE

COURSE TABLE PARCEL 19		
POINT	BEARING	DISTANCE
121 - 122	S45°40'26"W	27.99'
122 - 123	N00°05'26"E	20.00'
123 - 121	S88°44'35"E	20.00'

CURVE TABLE						
CURVE #	LENGTH	RADIUS	DELTA	CHORD LENGTH	CHORD BEARING	TANGENT
C1	8.24'	11524.17	00°02'27"	8.24'	N 89°16'40" E	4.12'

COURSE TABLE PARCEL 12		
POINT	BEARING	DISTANCE
107 - 108	S29°10'01"E	51.16'
108 - 109	S00°05'26"W	3.06'
109 - 110	N48°31'00"W	71.51'
110 - 111	SEE CURVE 1	
111 - 107	N89°15'14"E	20.40'

R/W PLAT SU-0351(11) (REV. 1/24/68) USED ALIGNMENT ALONG THE SOUTH LINE OF SECTION 5, T.5N., R.22E. WITH THE SOUTHWEST CORNER OF SAID SECTION 5 ASSIGNED STATION 380+51.90

RIGHT OF WAY, HIGHWAY EASEMENT, AND PROPERTY LINE INFORMATION SHOWN WITHIN THESE LIMITS ARE FROM GIS MAPPING FOR REFERENCE ONLY. THIS INFORMATION SHOULD NOT BE CONSTRUED AS BEING DERIVED FROM AN ACCURATE SURVEY.

NOTES:
COORDINATES ARE BASED ON THE WISCONSIN STATE PLANE COORDINATE SYSTEM, SOUTH ZONE, NORTH AMERICAN DATUM OF 1927, US SURVEY FOOT, GROUND. TO OBTAIN GRID COORDINATES MULTIPLY GROUND COORDINATES BY THE COMBINATION FACTOR 0.99993347.

FOR THE CURRENT ACCESS/DRIVEWAY INFORMATION, CONTACT THE PLANNING UNIT OF MILWAUKEE COUNTY.

BUILDINGS ARE NOT AFFECTED BY TLE'S.

REVISION DATE			
04/30/2024(1)			
10/23/2024(2)			

DATE 02/29/2024

GRID FACTOR 0.99993347

SCALE, FEET 0 50 100

HWY: CTH BB

COUNTY: MILWAUKEE

STATE R/W PROJECT NUMBER 2050-08-21

CONSTRUCTION PROJECT NUMBER 2050-08-71

PLAT SHEET 4.05

PS&E SHEET 229

E

FILE NAME : 040401_RP_REV 3.DWG
LAYOUT NAME - 040401_rp

PLOT DATE : 10/23/2024 1:59 PM PLOT BY : ROLLINS, CARLA PLOT NAME : PLOT SCALE : 1 IN:50 FT

WISDOT/CADDS SHEET 75

CITY

SE-SW

OF

W. RAWSON AVENUE (CTH BB)

WISCONSIN UNION RAILROAD COMPANY

BASIS OF EXISTING RIGHT-OF-WAY	
ROUTE	BASIS
RAWSON AVE.	ROW PLAT SU-035(11) Rev. 1/24/1968
	DOC 4306086

NOTES:
COORDINATES ARE BASED ON THE WISCONSIN STATE PLANE COORDINATE SYSTEM, SOUTH ZONE, NORTH AMERICAN DATUM OF 1927, US SURVEY FOOT, GROUND. TO OBTAIN GRID COORDINATES MULTIPLY GROUND COORDINATES BY THE COMBINATION FACTOR 0.99993347.

FOR THE CURRENT ACCESS/DRIVEWAY INFORMATION, CONTACT THE PLANNING UNIT OF MILWAUKEE COUNTY.

BUILDINGS ARE NOT AFFECTED BY TLE'S.

GN

T 5 N R 22 E — 5 5 5 5

FOUND CONCRETE MONUMENT WITH CITY OF OAK CREEK BRASS CAP
N=343437.93
E=2557145.75

SEE SHEET 4.05

SEE SHEET 4.07

10' WIDE UTILITY EASEMENT TO WE ENERGIES - GAS DOC. 7283024

PLAT OF SURVEY
DATED 08/16/1996
BURT J. NAUMANN
S-1950

CSM #381
DOC. #4182961
PARCEL 1

4 CONT.

SCHLUETER FAMILY LLC
TAX KEY NO. 735-900-2000

10' WIDE UTILITY EASEMENT TO WE ENERGIES - ELECTRIC DOC. 7283024

RIGHT-OF-WAY GRANT TO AT&T WISCONSIN DOC. 4983092

12' WIDE UTILITY EASEMENT TO WE ENERGIES - ELECTRIC DOC. 4925469

12' WIDE UTILITY EASEMENT TO AT&T WISCONSIN DOC. 4925469

10' WIDE UTILITY EASEMENT TO WE ENERGIES - ELECTRIC DOC. 4741507

12' WIDE DISTRIBUTION EASEMENT OVERHEAD & UNDERGROUND TO WE ENERGIES - ELECTRIC DOC. 10229847

CSM #9109
DOC. #10846925
LOT 1

5

OAK CREEK RAWSON INDUSTRIAL, LLC.
TAX KEY NO. 735-904-6000

12' WIDE DISTRIBUTION EASEMENT UNDERGROUND TO WE ENERGIES - ELECTRIC DOC. 10920600

12' WIDE DISTRIBUTION EASEMENT UNDERGROUND TO WE ENERGIES - ELECTRIC DOC. 10949028

10' WIDE UTILITY EASEMENT TO WE ENERGIES - ELECTRIC DOC. 4741507

ARC LENGTH=366.18' CHORD LENGTH=366.16'
RADIUS=11524.17' CHORD BEARING=N89°49'58"W

N89° 15' 25"E 351.77'

S82° 36' 32"E 463.51'

S88° 44' 35"E 148.12'

S00°18'37"W 2551.59'

2656.61'

17.60'

87.41'

SLOPE INTERCEPT (TYP.)

IP 0.75"

IP 1"

IP 1" DISTURBED

PC

PT

PL

VARIES

N1° 15' 25"E 95.27'

N1° 15' 25"E 154.53'

105'

125+00

R/L=SECTION LINE

250.39'

130+00

100.57'

594.82'

610.71'

S88°44'35"E 2677.34'

135+00

PI: 136+77.34

60.00'

8.90'

S54° 52' 19"E 69.28'

FOUND CONCRETE MONUMENT WITH SEWRPC BRASS CAP
N=340781.36
E=2557131.36

MATCH LINE SIXTEENTH

NE-NW

RECOGNITION OF EASEMENT FOR HIGHWAY PURPOSES ACROSS RAILROAD OWNED PROPERTY RECORDED IN STIPULATION BEFORE THE PUBLIC SERVICE COMMISSION OF WISCONSIN BETWEEN THE STATE HIGHWAY COMMISSION OF WISCONSIN AND THE TRUSTEES OF THE PROPERTY OF CHICAGO, MILWAUKEE, ST. PAUL AND PACIFIC RAILROAD COMPANY, RECEIVED APRIL 15, 1936 BY W.H.O. DIV. 2

RIGHT OF WAY, HIGHWAY EASEMENT, AND PROPERTY LINE INFORMATION SHOWN WITHIN THESE LIMITS ARE FROM GIS MAPPING FOR REFERENCE ONLY. THIS INFORMATION SHOULD NOT BE CONSTRUED AS BEING DERIVED FROM AN ACCURATE SURVEY.

TAX KEY NO. 764-998-5000

RIGHT OF WAY, HIGHWAY EASEMENT, AND PROPERTY LINE INFORMATION SHOWN WITHIN THESE LIMITS ARE FROM GIS MAPPING FOR REFERENCE ONLY. THIS INFORMATION SHOULD NOT BE CONSTRUED AS BEING DERIVED FROM AN ACCURATE SURVEY.

OAK CREEK

2581.06'

N00°41'12"E 2649.96'

SECTION MATCH LINE

PUBLISHED COORDINATES. CORNER FALLS IN BUILDING. CHECKED TO ONE REMAINING TIE
N=338131.59
E=2557099.60

T 5 N R 22 E — 8 8 8 8

FOUND CONCRETE MONUMENT WITH CITY OF OAK CREEK BRASS CAP
N=343437.93
E=2557145.75

T 5 N R 22 E — 5 5 5 5

4

4

REVISION DATE 04/30/2024 N.C.	DATE 02/29/2024	SCALE, FEET 0 50 100	HWY: CTH BB	STATE R/W PROJECT NUMBER 2050-08-21	PLAT SHEET 4.06
	GRID FACTOR 0.99993347		COUNTY: MILWAUKEE	CONSTRUCTION PROJECT NUMBER 2050-08-71	PS&E SHEET 230 E

FILE NAME : 040401_RP_REV 3.DWG
LAYOUT NAME - 040402_rp

PLOT DATE : 10/23/2024 1:59 PM PLOT BY : ROLLINS, CARLA PLOT NAME : PLOT SCALE : 1 IN:50 FT

WISDOT/CADDS SHEET 75

FOUND CONCRETE MONUMENT WITH CITY OF OAK CREEK BRASS CAP
N=343437.93
E=2557145.75

SEE SHEET 4.06

CITY

BASIS OF EXISTING RIGHT-OF-WAY	
ROUTE	BASIS
RAWSON AVE.	ROW PLAT SU-035(11) Rev. 1/24/1968
S. 6TH STREET	ROW PLAT SU-035(11) Rev. 1/24/1968
	CSM 9109
	CSM 6758

NOTES:
COORDINATES ARE BASED ON THE WISCONSIN STATE PLANE COORDINATE SYSTEM, SOUTH ZONE, NORTH AMERICAN DATUM OF 1927, US SURVEY FOOT, GROUND. TO OBTAIN GRID COORDINATES MULTIPLY GROUND COORDINATES BY THE COMBINATION FACTOR 0.99993347.

FOR THE CURRENT ACCESS/DRIVEWAY INFORMATION, CONTACT THE PLANNING UNIT OF MILWAUKEE COUNTY.

BUILDINGS ARE NOT AFFECTED BY TLE'S.

GN

COURSE TABLE PARCEL 5		
POINT	BEARING	DISTANCE
112 - 113	N86°45'51"W	10.67'
113 - 114	N50°32'19"E	13.94'
114 - 112	S00°39'54"W	9.46'

CSM #9109
DOC. #10846925
LOT 1

5 CONT.

OAK CREEK RAWSON INDUSTRIAL, LLC.
TAX KEY NO. 735-904-6000

2656.61'
S00°18'37"W 2551.59'

CSM #1249
DOC. #14520324
PARCEL 2

SW-SE

S. 6TH STREET

RIGHT OF WAY, HIGHWAY EASEMENT, AND PROPERTY LINE INFORMATION SHOWN WITHIN THESE LIMITS ARE FROM GIS MAPPING FOR REFERENCE ONLY. THIS INFORMATION SHOULD NOT BE CONSTRUED AS BEING DERIVED FROM AN ACCURATE SURVEY.

CSM #1964
DOC. #4723997
PARCEL 2

6
WEBMC, INC., A WISCONSIN CORPORATION
TAX KEY NO. 734-901-5002

CSM #1964
DOC. #4723997
PARCEL 1

7
INDUSTRIAL INVESTMENTS INC
TAX KEY NO. 734-901-4000

CSM #1322
DOC. #4537587
PARCEL 1

8
RIGOBERTO BECERRA
TAX KEY NO. 734-900-7000

CSM #1320
DOC. #4537585
PARCEL 1

9 TLE 574 SQ. FT.
DAVID KLINEDORF
TAX KEY NO. 734-900-4000

SEE SHEET 4.08

10' WIDE UTILITY EASEMENT DOC. 4786775

20' WIDE INGRESS/EGRESS EASEMENT TO CITY OF OAK CREEK DOC. 4741999

20' WIDE INGRESS/EGRESS EASEMENT TO CITY OF OAK CREEK DOC. 4739426

12' WIDE UTILITY EASEMENT DOC. 477143

15' WIDE PUBLIC UTILITY EASEMENT TO CITY OF OAK CREEK DOC. 4548402

VARIABLE WIDTH UTILITY EASEMENT DOC. 4960714

15' WIDE PUBLIC UTILITY EASEMENT TO CITY OF OAK CREEK DOC. 45488822

SLOPE INTERCEPT (TYP.)

ARC LENGTH=265.03' CHORD LENGTH=265.02'
RADIUS=11394.17' CHORD BEARING=S88°15'06"E

140+00 | 145+00 | 150+00

R/L=SECTION LINE

W. RAWSON AVENUE (CTH BB)

S88°55'05"E 2659.35'

OF

COURSE TABLE PARCEL 14		
POINT	BEARING	DISTANCE
118 - 119	S88°55'05"E	29.33'
119 - 120	S00°41'12"W	27.26'
120 - 118	N46°11'57"W	40.18'

14
WISCONSIN ELECTIC POWER COMPANY
TAX KEY NO. 765-999-0000

UNPLATTED LANDS

2649.96'
N00°41'12"E 2581.06'

MATCH LINE SECTION

S. 6TH STREET

COURSE TABLE PARCEL 15		
POINT	BEARING	DISTANCE
115 - 116	S88°55'05"E	14.22'
116 - 117	S50°32'19"W	18.61'
117 - 115	N00°41'12"E	12.09'

15
FARM AND FLEET OF JANESVILLE, INC.
A WISCONSIN CORPORATION
TAX KEY NO. 765-909-1000

CSM #6758
DOC. #07844390
PARCEL 1

20' UTILITY EASEMENT DOC. 5951629

BLANKET UTILITY EASEMENT DOC. 1397876

10' WIDE SANITARY SEWER EASEMENT TO CITY OF OAK CREEK DOC. 5262805

TLE (TYP.)

TLE 819 SQ. FT. 417

TLE 844 SQ. FT. 416

TLE 942 SQ. FT. 16
MICHAEL L. MARCHESE
TAX KEY NO. 765-999-5000
UNPLATTED LANDS

TLE 988 SQ. FT. 17
SANTIAGO MERCADO
TAX KEY NO. 765-999-6000
UNPLATTED LANDS

SIXTEENTH MATCH LINE

NW-NE

OAK CREEK

PUBLISHED COORDINATES.
CORNER FALLS IN BUILDING. CHECKED TO ONE REMAINING TIE
N=338131.59
E=2557099.60

THE UTILITY INTERESTS SHOWN AS COMPENSABLE ON THIS PLAT ONLY REFLECT THOSE FACILITIES/EASEMENTS LOCATED IN THE SINGLE DIGIT PARCEL NUMBERS. THERE MAY BE ADDITIONAL UTILITY FACILITIES AFFECTED OR EASEMENTS THAT APPLY IF THE ALTERNATIVE PARCEL NUMBERS (IN THE 400 SERIES) ARE USED.

UTILITY INTERESTS REQUIRED		
UTILITY NUMBER	OWNER	INTEREST REQUIRED
100	WE ENERGIES - ELECTRIC	ROR
101	WE ENERGIES - GAS	ROR
102	AT&T WISCONSIN	ROR

R/W STATION, OFFSET & COORDINATES TABLE				
PT #	STATION	OFFSET	NORTHING	EASTING
112	138+76.70	89.32' LT	340866.90	2557332.36
113	138+76.77	79.86' LT	340857.44	2557332.25
114	138+66.10	80.26' LT	340858.04	2557321.60
115	139+91.99	60.00' RT	340715.43	2557444.81
116	139+77.85	72.09' RT	340703.60	2557430.45
117	139+77.77	60.00' RT	340715.70	2557430.60
118	138+77.76	60.00' RT	340717.59	2557330.61
119	138+77.95	87.26' RT	340690.33	2557330.28
120	138+48.43	60.00' RT	340718.14	2557301.28

REVISION DATE	DATE 02/29/2024	SCALE, FEET 0 50 100	HWY: CTH BB	STATE R/W PROJECT NUMBER 2050-08-21	PLAT SHEET 4.07	
04/30/2024(1) 10/23/2024(2)	GRID FACTOR 0.99993347		COUNTY: MILWAUKEE	CONSTRUCTION PROJECT NUMBER 2050-08-71	PS&E SHEET 231	E

FILE NAME : 040401_RP_REV 3.DWG
LAYOUT NAME - 040403_rp
PLOT DATE : 10/23/2024 1:59 PM PLOT BY : ROLLINS, CARLA PLOT NAME : PLOT SCALE : 1 IN:50 FT

CITY

CITY OF OAK CREEK
TAX KEY NO. 734-900-5002

10

SEE SHEET 4.07

151+72.85
243.78'

152+93.30
244.01'

ARC LENGTH=40.27'
CHORD LENGTH=40.26'
RADIUS=440.00'
CHORD BEARING=N02°00'06"W

S89° 01' 35"E 120.45'

ARC LENGTH=39.50'
CHORD LENGTH=39.49'
RADIUS=560.00'
CHORD BEARING=S01°24'03"E

151+75.02
PC - 203.59'

152+95.01
PC - 204.55'

151+75.91
93.03'

152+95.91
93.03'

N0° 37' 17"E 110.56'

OAK CREEK

S0° 37' 12"W 111.53'

IP 1"

IP 1" DISTURBED

N88° 55' 05"W 120.00'

RIGHT OF WAY, HIGHWAY EASEMENT, AND PROPERTY LINE INFORMATION SHOWN WITHIN THESE LIMITS ARE FROM GIS MAPPING FOR REFERENCE ONLY. THIS INFORMATION SHOULD NOT BE CONSTRUED AS BEING DERIVED FROM AN ACCURATE SURVEY.

SE-SE

FOUND CONCRETE MONUMENT WITH SEWRPC BRASS CAP
N=343376.36
E=2559818.86

T 5 N
R 22 E
5 4
5 4

GN

S. HOWELL AVENUE (STH 38)
(R/W WIDTH VARIES)

S00°37'12"W 2645.37'

LINE

OF

W. RAWSON AVENUE (CTH BB)

END RELOCATION ORDER
STA 163+36.70
N=340731.14
E=2559790.24

150+00

155+00

160+00

R/L=SECTION LINE

1036.49'

1040.79'

S88°55'05"E 2659.35'

11'X6' CULVERT

N1° 04' 55"E 93.03'

S1° 04' 55"W 93.72'

SLOPE INTERCEPT
(TYP.)

151+77.33
93.62'

153+00.21
93.62'

S88° 55' 05"E 122.87'

N0° 04' 39"E 150.03'

NORTH BRANCH

S0° 39' 19"W 150.10'

69'

S. 1ST STREET

IP 1" DISTURBED

N88° 52' 18"W 121.36'

151+79.97
243.63'

153+01.32
243.72'

18

CITY OF OAK CREEK
TAX KEY NO. 765-994-6001

MATCH LINE
SIXTEENTH

SECTION

N00°30'26"E 2643.70'

FOUND CONCRETE MONUMENT WITH CITY OF OAK CREEK BRASS CAP
N=340731.14
E=2559790.24

FOUND CONCRETE MONUMENT WITH CITY OF OAK CREEK BRASS CAP
N=338087.54
E=2559766.83

T 5 N
R 22 E
8 9
8 9

NE-NE

OAK CREEK

NOTES:

COORDINATES ARE BASED ON THE WISCONSIN STATE PLANE COORDINATE SYSTEM, SOUTH ZONE, NORTH AMERICAN DATUM OF 1927, US SURVEY FOOT, GROUND. TO OBTAIN GRID COORDINATES MULTIPLY GROUND COORDINATES BY THE COMBINATION FACTOR 0.99993347.

FOR THE CURRENT ACCESS/DRIVEWAY INFORMATION, CONTACT THE PLANNING UNIT OF MILWAUKEE COUNTY.

BUILDINGS ARE NOT AFFECTED BY TLE'S.

RIGHT OF WAY, HIGHWAY EASEMENT, AND PROPERTY LINE INFORMATION SHOWN WITHIN THESE LIMITS ARE FROM GIS MAPPING FOR REFERENCE ONLY. THIS INFORMATION SHOULD NOT BE CONSTRUED AS BEING DERIVED FROM AN ACCURATE SURVEY.

BASIS OF EXISTING RIGHT-OF-WAY	
ROUTE	BASIS
RAWSON AVE.	ROW PLAT SU-035(11) Rev. 1/24/1968

REVISION DATE 04/30/2024(1)	DATE 02/29/2024	SCALE, FEET 0 50 100	HWY: CTH BB
	GRID FACTOR 0.99993347		COUNTY: MILWAUKEE

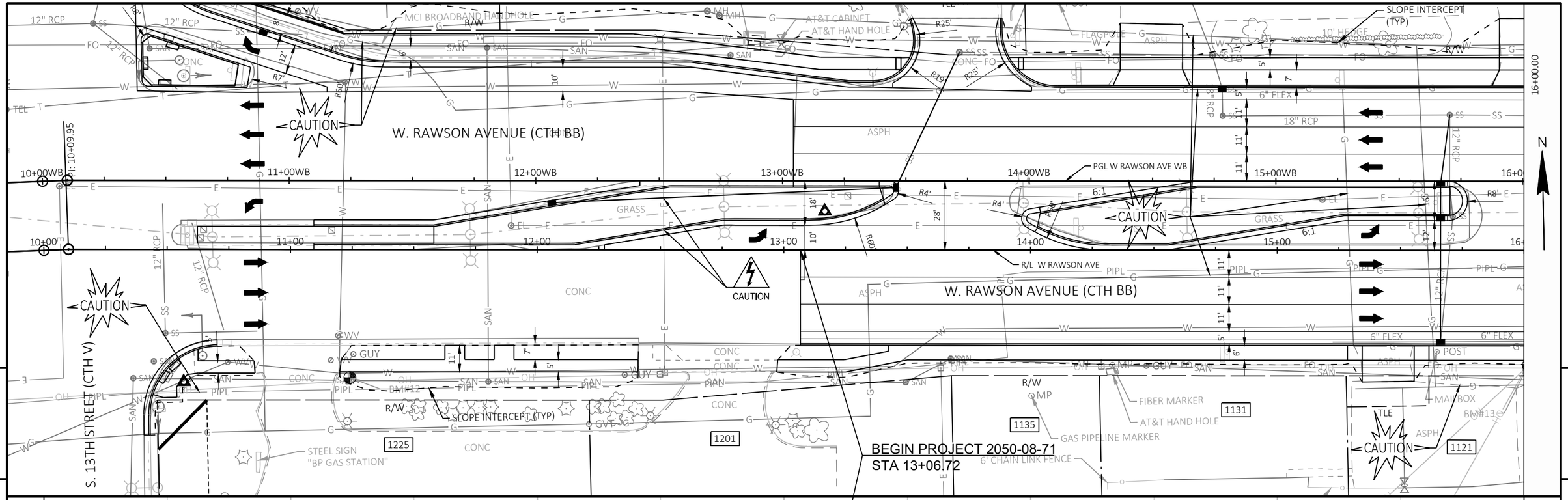
STATE R/W PROJECT NUMBER	2050-08-21	PLAT SHEET 4.08
CONSTRUCTION PROJECT NUMBER	2050-08-71	PS&E SHEET 232

E

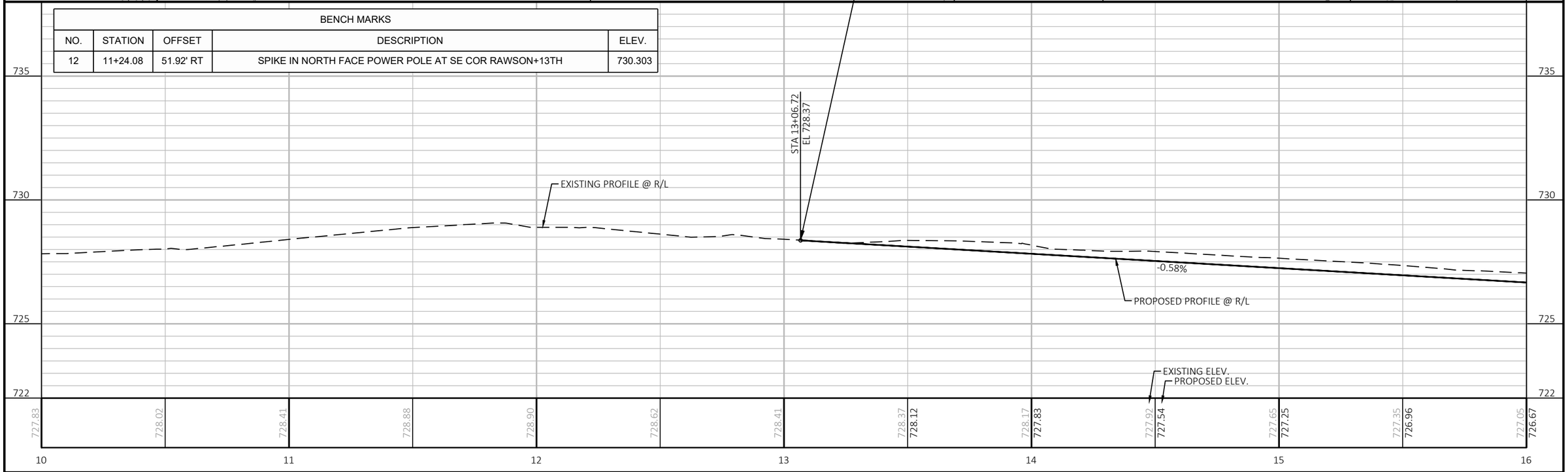
FILE NAME : 040401_RP_REV 3.DWG
LAYOUT NAME - 040404_rp

PLOT DATE : 10/23/2024 1:59 PM PLOT BY : ROLLINS, CARLA PLOT NAME : PLOT SCALE : 1 IN:50 FT

WISDOT/CADDS SHEET 75

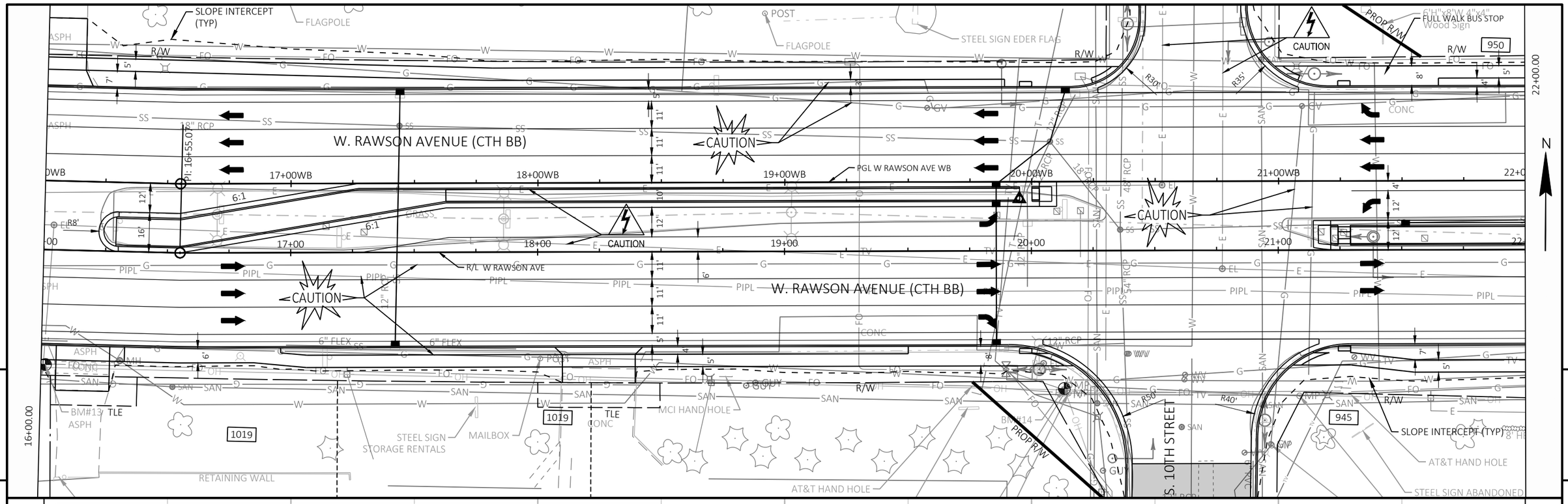


BENCH MARKS				
NO.	STATION	OFFSET	DESCRIPTION	ELEV.
12	11+24.08	51.92' RT	SPIKE IN NORTH FACE POWER POLE AT SE COR RAWSON+13TH	730.303

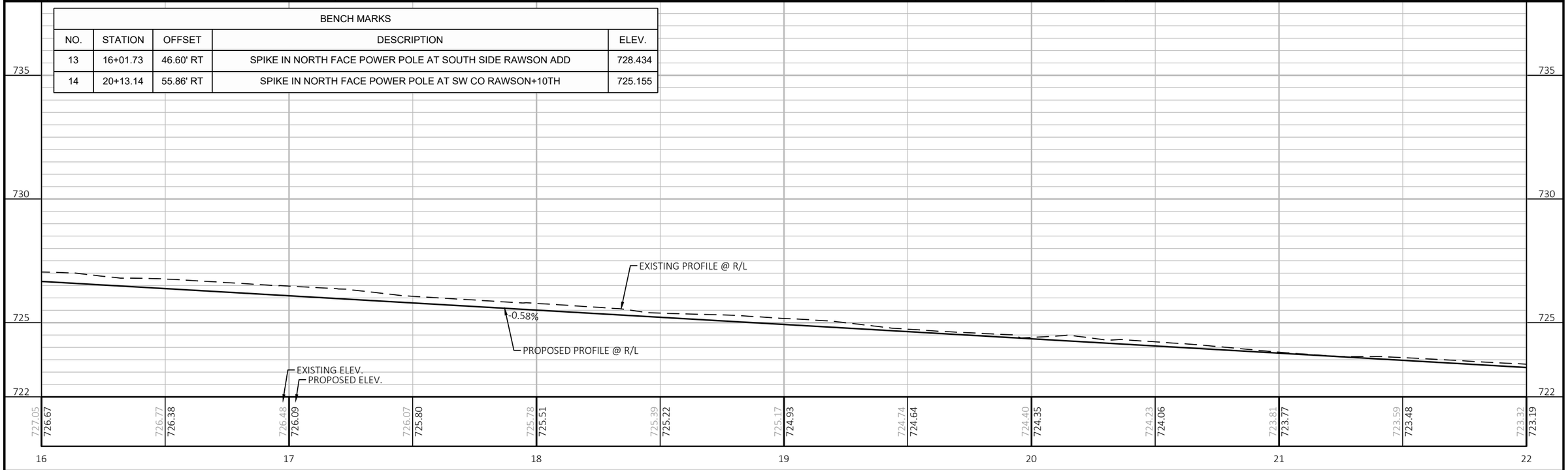


PROJECT NO: 2050-08-71	HWY: CTH BB	COUNTY: MILWAUKEE	PLAN AND PROFILE: W. RAWSON AVENUE (EASTBOUND)	SHEET 233	E

FILE NAME : \\W3027S02\DPPI$\DPW PROFESSIONAL\DATA\HIGHWAY OPERATIONS CONTROL FILE\CENTRAL FILES\2010-2014\CTH BB - W. RAWSON AVE\2050-08-01 S 13TH ST TO W HOWELL AVE\DESIGN\PLANS\2050803_PP.DWG 10/30/2016 6:54 PM
LAYOUT NAME - 01
PLOT BY : HILLIARD, MARC PLOT NAME : PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 44



BENCH MARKS				
NO.	STATION	OFFSET	DESCRIPTION	ELEV.
13	16+01.73	46.60' RT	SPIKE IN NORTH FACE POWER POLE AT SOUTH SIDE RAWSON ADD	728.434
14	20+13.14	55.86' RT	SPIKE IN NORTH FACE POWER POLE AT SW CO RAWSON+10TH	725.155



PROJECT NO: 2050-08-71	HWY: CTH BB	COUNTY: MILWAUKEE	PLAN AND PROFILE: W. RAWSON AVENUE (EASTBOUND)	SHEET 234	E

FILE NAME : \\W3027S02\DPPI$\DPW PROFESSIONAL\DATA\HIGHWAY OPERATIONS CONTROL FILE\CENTRAL FILES\2010-2014\CTH BB - W. RAWSON AVE\2050-08-01 S 13TH ST TO W HOWELL AVE\DESIGN\PLANS\2050080130_02.DWG 10/30/2016 5:54 PM
LAYOUT NAME - 02

PLOT BY : HILLIARD, MARC PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 44

NOTE: EXCAVATION BELOW SUBGRADE (EBS) ANTICIPATED FROM STA 25+95 TO STA 29+95

SLOPE INTERCEPT (TYP)

W. RAWSON AVENUE (CTH BB)

PGL W RAWSON AVE WB

R/L W RAWSON AVE

CAUTION

I-FIBER HANDHOLE

MAILBOX

GAS PIPELINE MARKER

FIBER MARKER

BM#15

6" HEDGE

GRVL

CONC

ASPH

GRASS

6:1

12" RCP

12" PVC

6" FLEX

945

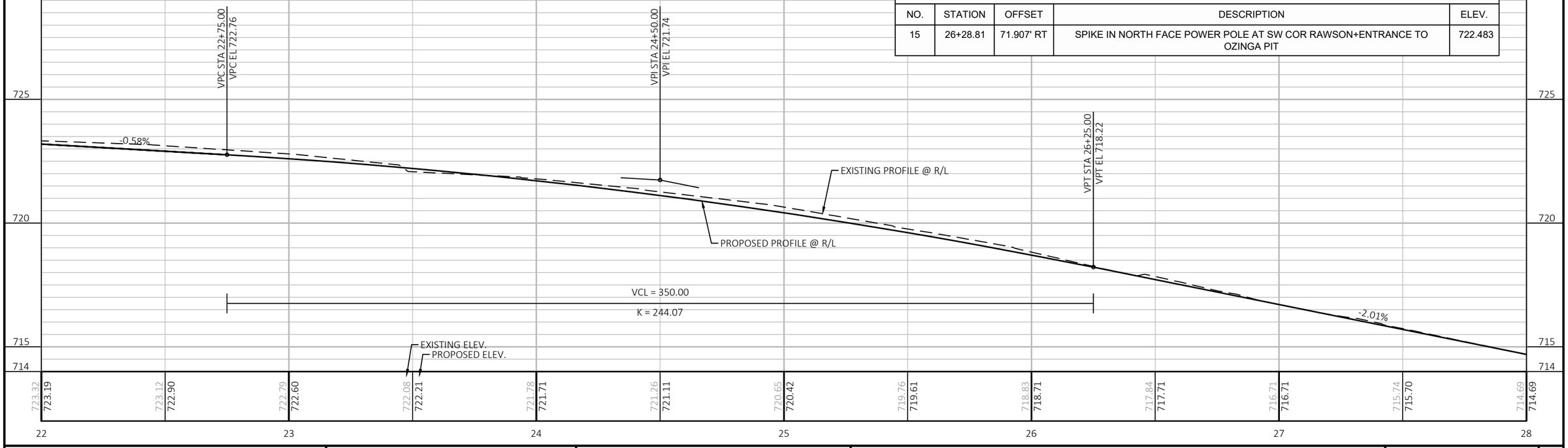
921

841

950

BENCH MARKS

NO.	STATION	OFFSET	DESCRIPTION	ELEV.
15	26+28.81	71.907' RT	SPIKE IN NORTH FACE POWER POLE AT SW COR RAWSON+ENTRANCE TO OZINGA PIT	722.483



PROJECT NO: 2050-08-71	HWY: CTH BB	COUNTY: MILWAUKEE	PLAN AND PROFILE: W. RAWSON AVENUE (EASTBOUND)	SHEET 235	E

FILE NAME : \\W3027S02\DPPIS\DPW PROFESSIONAL\DATA\HIGHWAY OPERATIONS CONTROL FILE\CENTRAL FILES\2010-2014\CTH BB - W. RAWSON AVE\2050-08-01 S 13TH ST TO W HOWELL AVE\DESIGN\PLANS\2050080130_PROFILE.DWG
LAYOUT NAME - 03
PLOTTED : 10/30/2015 5:54 PM
PLOT BY : HILLIARD, MARC
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 44

NOTE: EXCAVATION BELOW SUBGRADE (EBS) ANTICIPATED FROM STA 25+95 TO STA 29+95

SLOPE INTERCEPT (TYP)

W. RAWSON AVENUE (CTH BB)

PI: 29+06.18

PI: 32+81.23

PGL W RAWSON AVE WB

B-40-385 (EXISTING)

R/L W RAWSON AVE

CANADIAN PACIFIC RAILWAY

CONC SUPPORT FOR BRIDGE

GAS LOCATOR POST

GAS PIPELINE MARKER

CONC BRIDGE SUPPORT

18" CONC WING WALL

CONC. STEPS

CONTROL BOX

BM#22

6" STEEL 4' TALL POSTS

FIBER OPTIC HANDHOLE

735

841

621

R/W

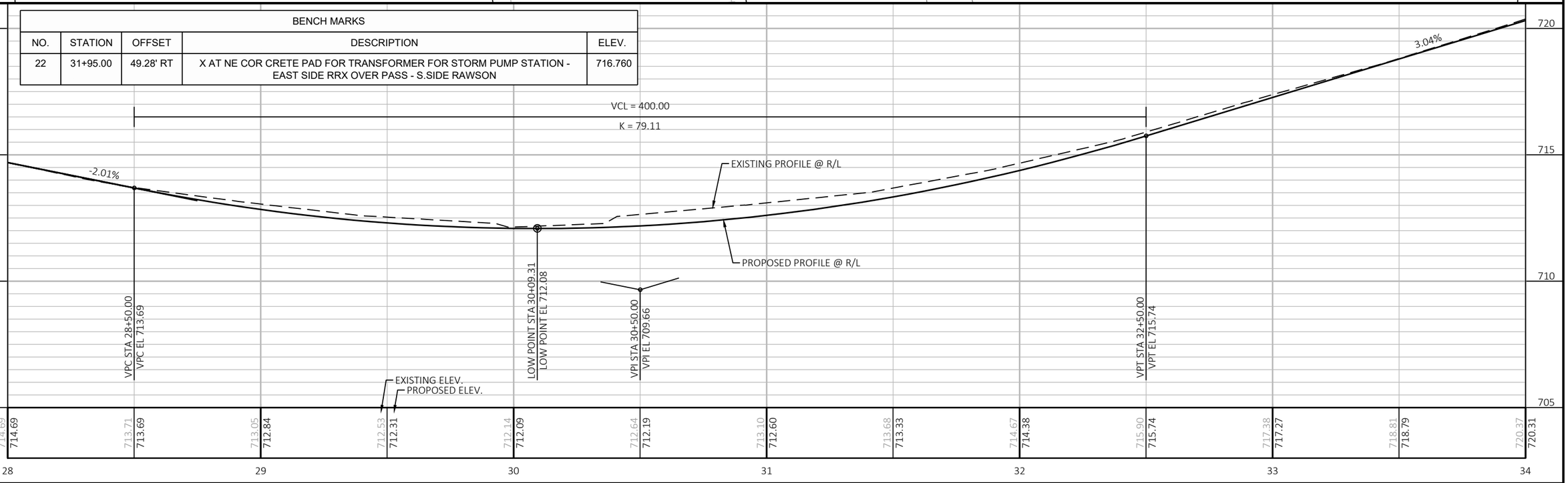
28+00.00

34+00.00

N

5

BENCH MARKS				
NO.	STATION	OFFSET	DESCRIPTION	ELEV.
22	31+95.00	49.28' RT	X AT NE COR CRETE PAD FOR TRANSFORMER FOR STORM PUMP STATION - EAST SIDE RRX OVER PASS - S.SIDE RAWSON	716.760

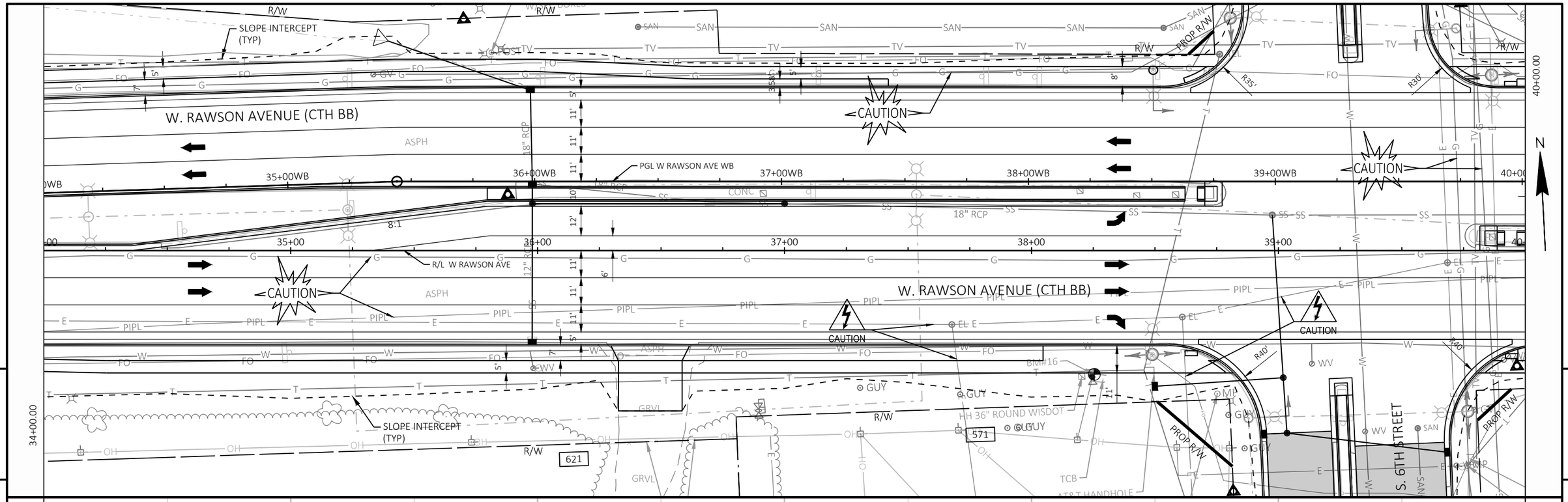


PROJECT NO: 2050-08-71	HWY: CTH BB	COUNTY: MILWAUKEE	PLAN AND PLOTS: W. RAWSON AVENUE (EASTBOUND)	SHEET 236	E

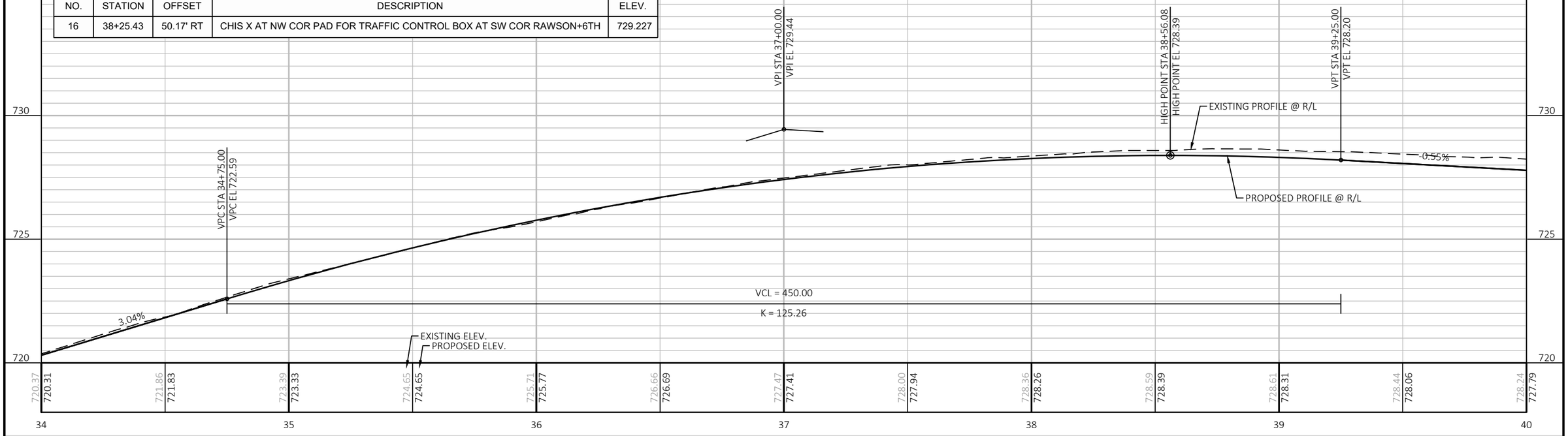
FILE NAME : \\W3027S02\DPPI$\DPW PROFESSIONAL\DATA\HIGHWAY OPERATIONS CONTROL FILE\CENTRAL FILES\2010-2014\CTH BB - W. RAWSON AVE\2050-08-01 S 13TH ST TO W HOWELL AVE\DESIGN PLANS\2050080130_PP2.DWG 10/30/2015 6:54 PM
LAYOUT NAME - 04

PLOT BY : HILLIARD, MARC PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 44

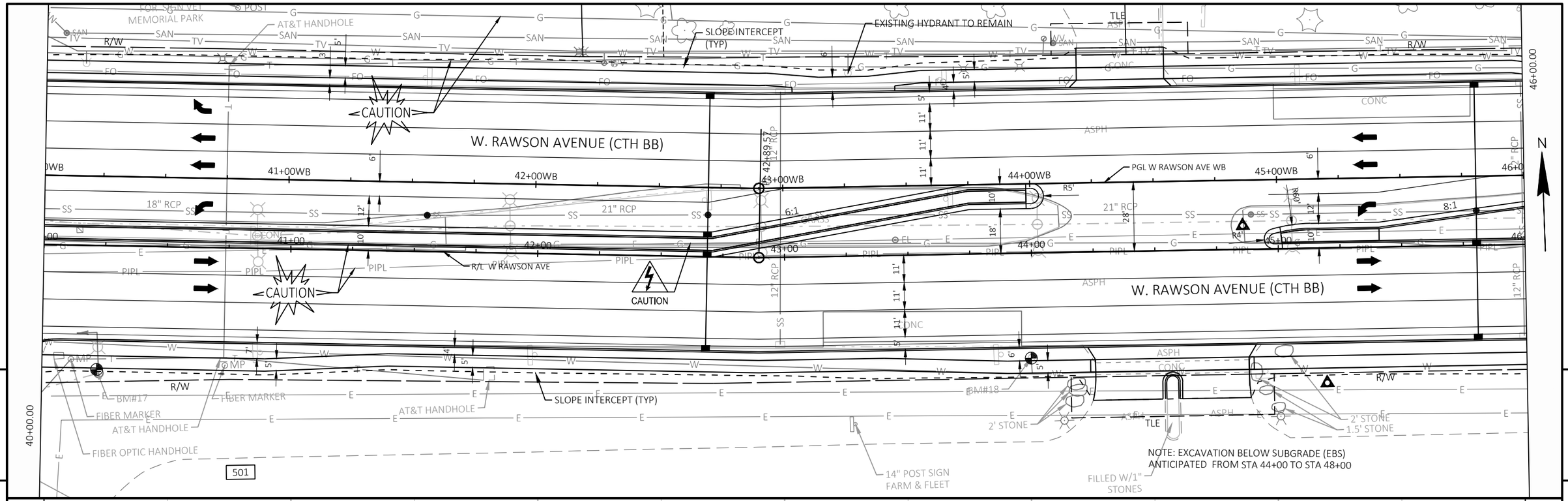


BENCH MARKS				
NO.	STATION	OFFSET	DESCRIPTION	ELEV.
16	38+25.43	50.17' RT	CHIS X AT NW COR PAD FOR TRAFFIC CONTROL BOX AT SW COR RAWSON+6TH	729.227

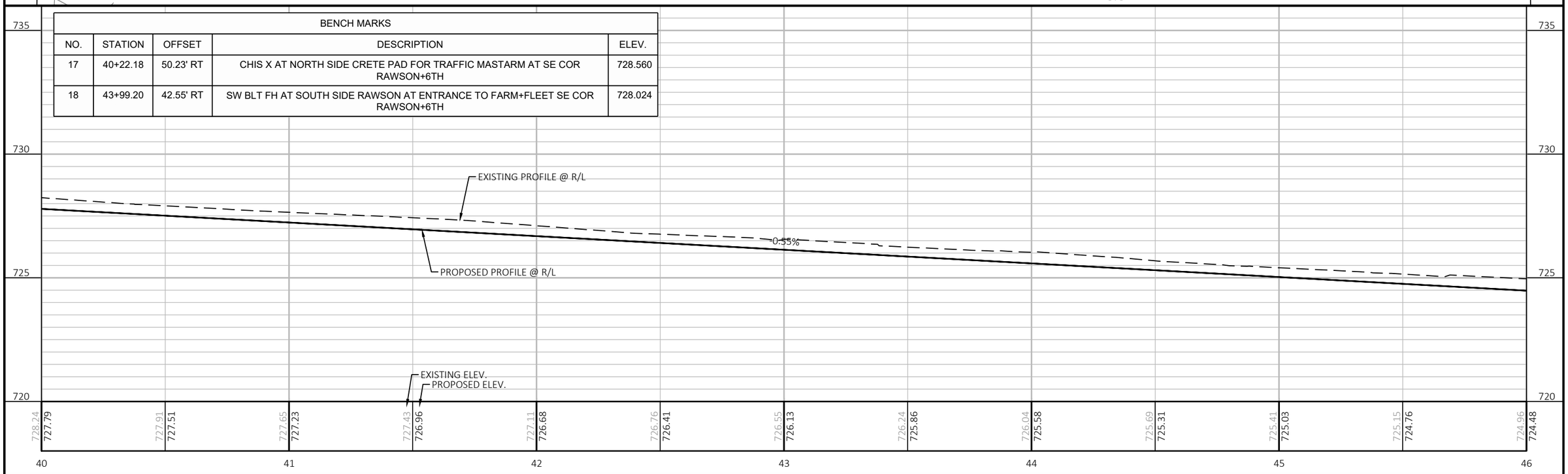


PROJECT NO: 2050-08-71	HWY: CTH BB	COUNTY: MILWAUKEE	PLAN AND PROFILE: W. RAWSON AVENUE (EASTBOUND)	SHEET 237	E

FILE NAME : \\W3027S02\DPPIS\DPW PROFESSIONAL\DATA\HIGHWAY OPERATIONS CONTROL FILE\CENTRAL FILES\2010-2014\CTH BB - W. RAWSON AVE\2050-08-01 S 13TH ST TO W HOWELL AVE\DESIGN\PLANS\2050-08-71_PP02.DWG 10/30/2015 6:54 PM
LAYOUT NAME - 05
PLOT BY : HILLIARD, MARC PLOT NAME : PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 44

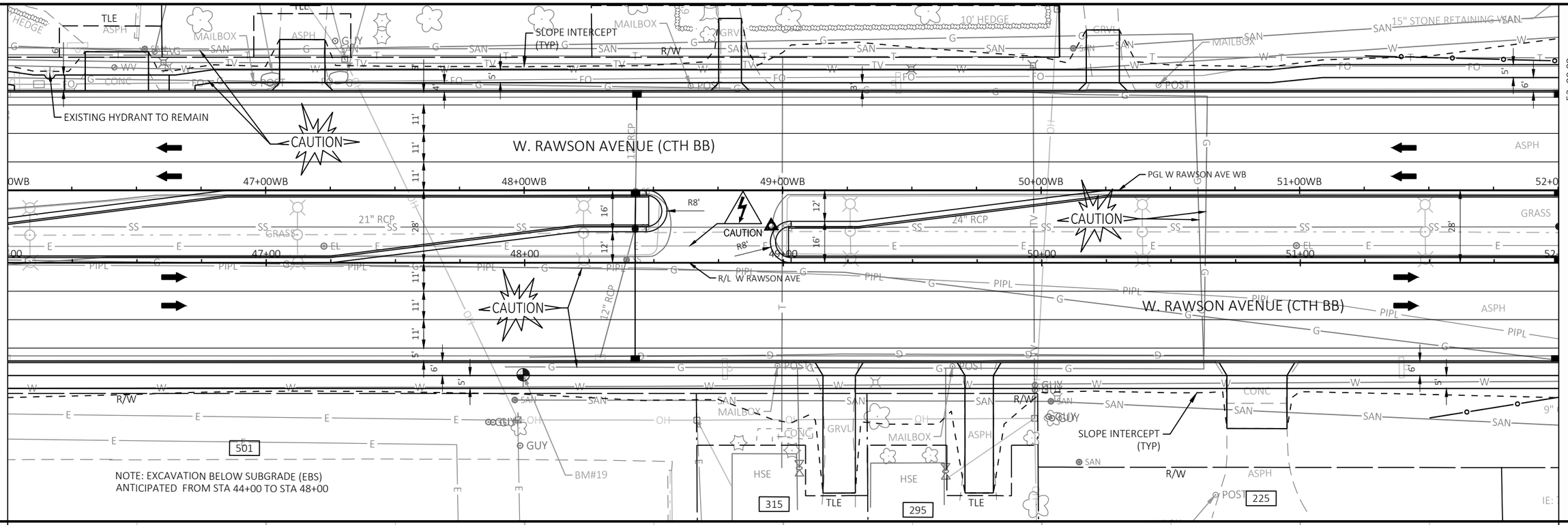


BENCH MARKS				
NO.	STATION	OFFSET	DESCRIPTION	ELEV.
17	40+22.18	50.23' RT	CHIS X AT NORTH SIDE CRETE PAD FOR TRAFFIC MASTARM AT SE COR RAWSON+6TH	728.560
18	43+99.20	42.55' RT	SW BLT FH AT SOUTH SIDE RAWSON AT ENTRANCE TO FARM+FLEET SE COR RAWSON+6TH	728.024

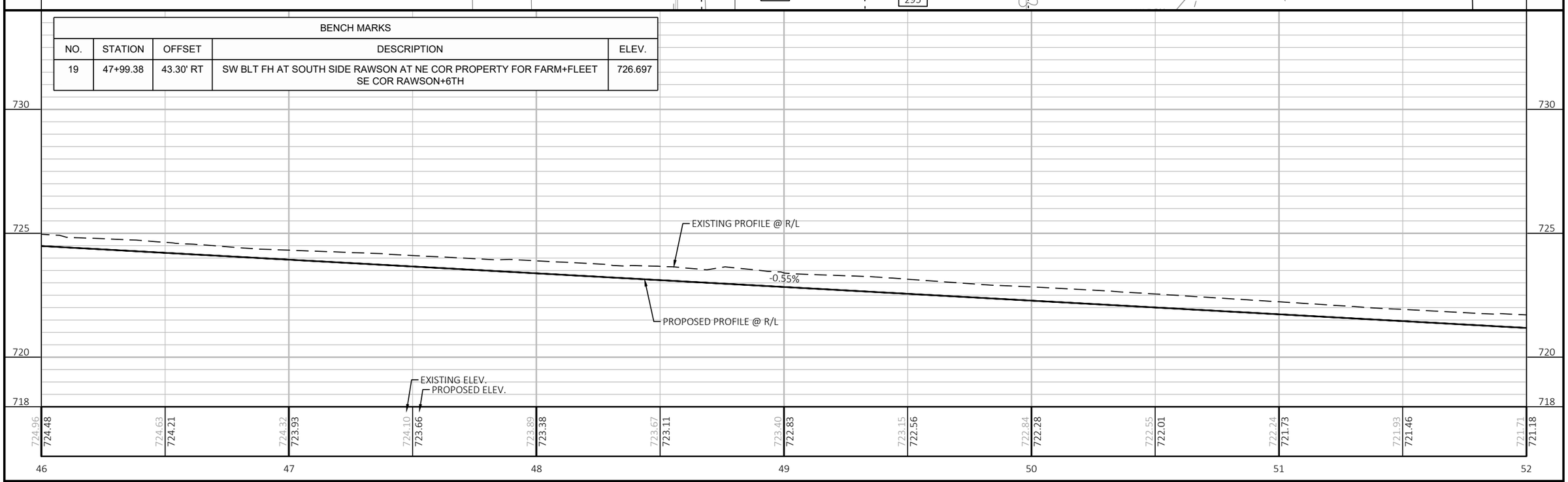


PROJECT NO: 2050-08-71	HWY: CTH BB	COUNTY: MILWAUKEE	PLAN AND PROFILE: W. RAWSON AVENUE (EASTBOUND)	SHEET 238	E

FILE NAME : \\W3027S02\DPPIS\DPW PROFESSIONAL\DATA\HIGHWAY OPERATIONS CONTROL FILE\CENTRAL FILES\2010-2014\CTH BB - W. RAWSON AVE\2050-08-01 S 13TH ST TO W HOWELL AVE\DESIGN\PLANS\2050081_PROFILE.dgn 10/30/2024 6:55 PM
LAYOUT NAME - 06
PLOT BY : HILLIARD, MARC PLOT NAME : PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 44



BENCH MARKS				
NO.	STATION	OFFSET	DESCRIPTION	ELEV.
19	47+99.38	43.30' RT	SW BLT FH AT SOUTH SIDE RAWSON AT NE COR PROPERTY FOR FARM+FLEET SE COR RAWSON+6TH	726.697



PROJECT NO: 2050-08-71	HWY: CTH BB	COUNTY: MILWAUKEE	PLAN AND PROFILE: W. RAWSON AVENUE (EASTBOUND)	SHEET 239	E

FILE NAME : \\W3027S02\DPPIS\DPW PROFESSIONAL\DATA\HIGHWAY OPERATIONS CONTROL FILE\CENTRAL FILES\2010-2014\CTH BB - W. RAWSON AVE\2050-08-01 S 13TH ST TO W HOWELL AVE\DESIGN\PLANS\2050080130_PP.DWG 10/30/2015 6:55 PM
LAYOUT NAME - 07
PLOT BY : HILLIARD, MARC PLOT NAME : PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 44

W. RAWSON AVENUE (CTH BB)

S. 1ST STREET

CAUTION

B-40-389 (EXISTING)

PGL W RAWSON AVE WB

R/L W RAWSON AVE

SLOPE INTERCEPT (TYP)

GRUBBING (TYP)

WETLAND BOUNDARY (TYP)

NORTH BRANCH OAK CREEK

GAS PIPELINE MARKER

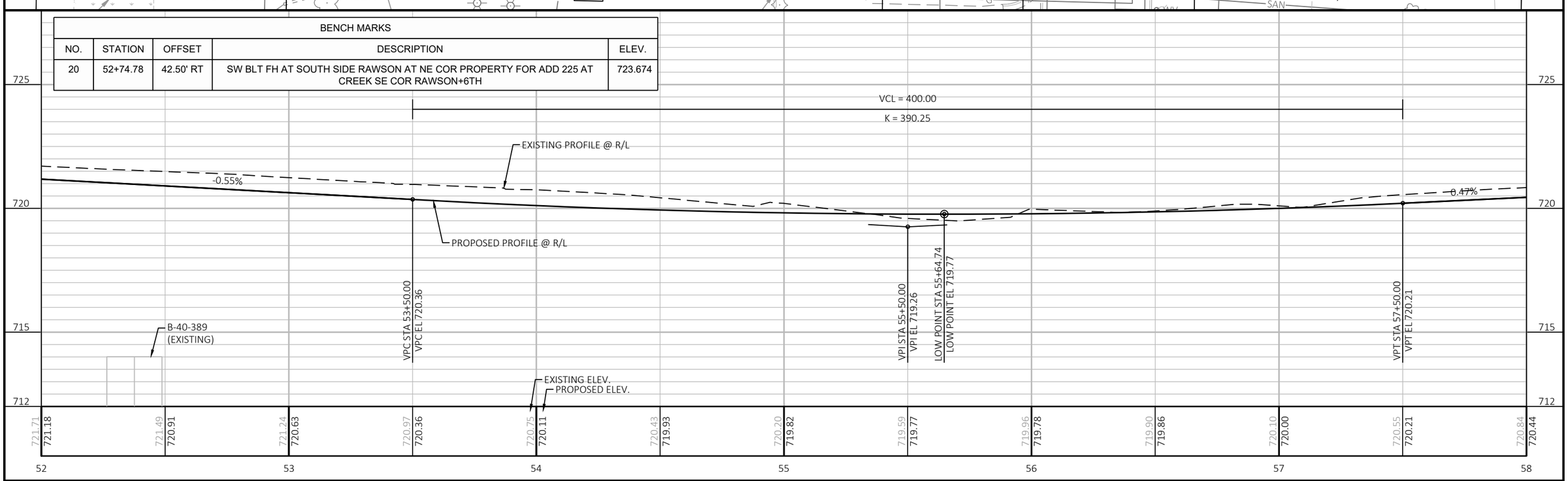
CONC. HEADWALL

R/W

40'

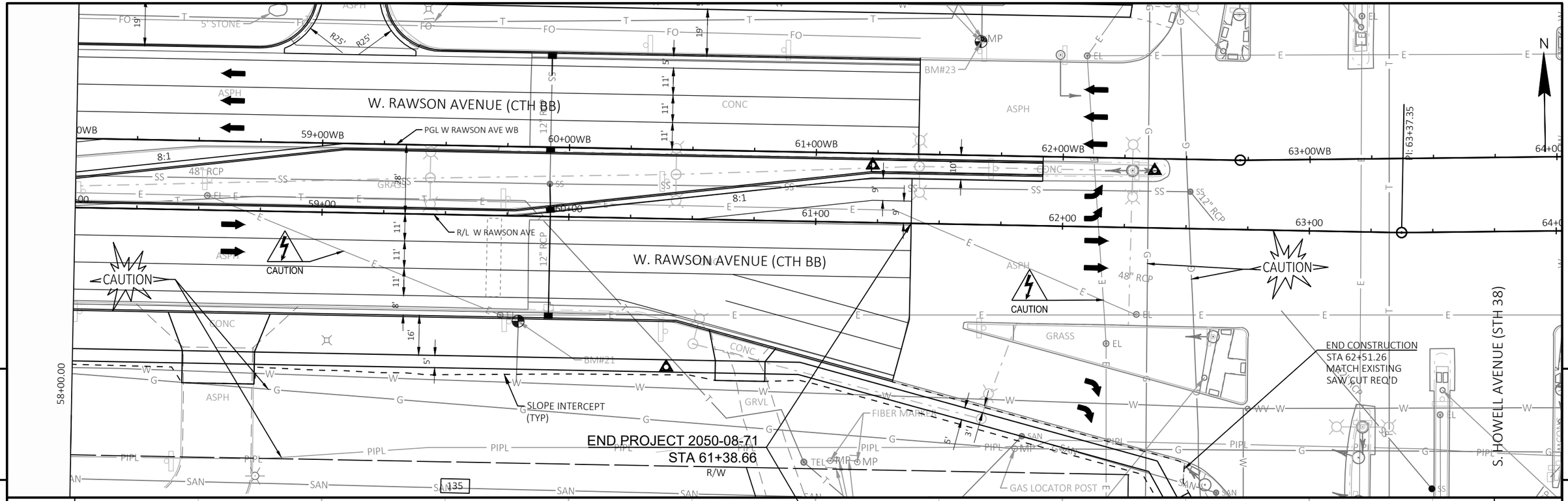
N

BENCH MARKS				
NO.	STATION	OFFSET	DESCRIPTION	ELEV.
20	52+74.78	42.50' RT	SW BLT FH AT SOUTH SIDE RAWSON AT NE COR PROPERTY FOR ADD 225 AT CREEK SE COR RAWSON+6TH	723.674

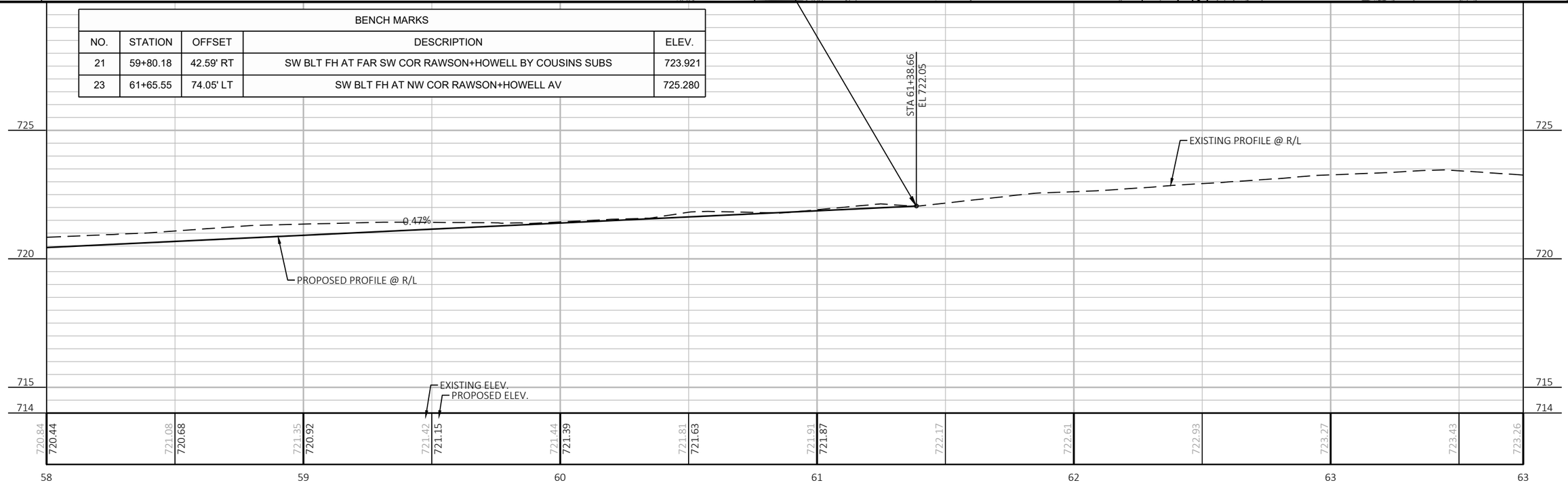


PROJECT NO: 2050-08-71	HWY: CTH BB	COUNTY: MILWAUKEE	PLAN AND PROFILE: W. RAWSON AVENUE (EASTBOUND)	SHEET 240	E

FILE NAME : \\W3027S02\DPPIS\DPW PROFESSIONAL\DATA\HIGHWAY OPERATIONS CONTROL FILE\CENTRAL FILES\2010-2014\CTH BB - W. RAWSON AVE\2050-08-01 S 13TH ST TO W HOWELL AVE\DESIGN\PLANS\2050080130.DWG
LAYOUT NAME - 08
10/30/2015 - 6:55 PM
PLOT BY : HILLIARD, MARC
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 44

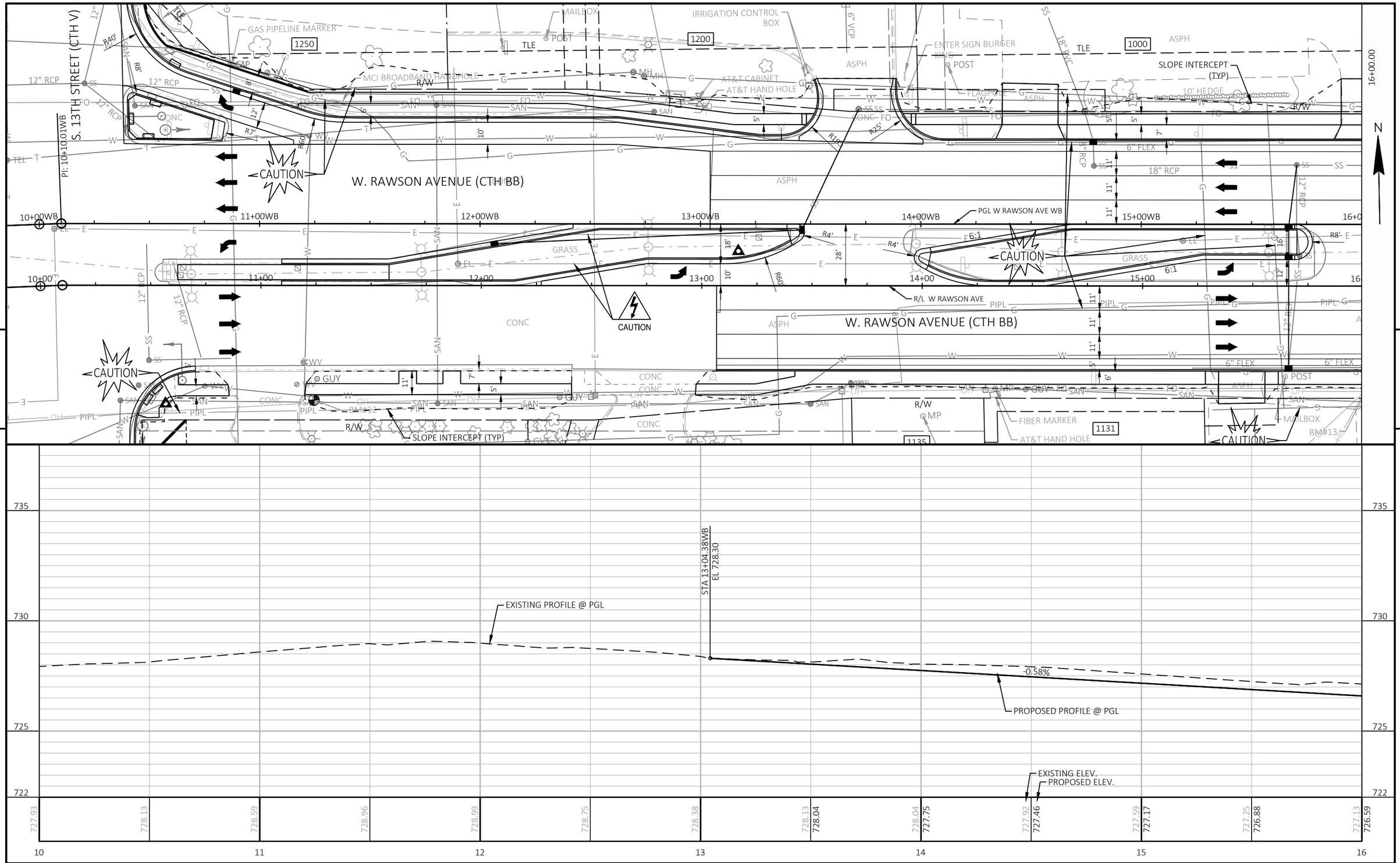


BENCH MARKS				
NO.	STATION	OFFSET	DESCRIPTION	ELEV.
21	59+80.18	42.59' RT	SW BLT FH AT FAR SW COR RAWSON+HOWELL BY COUSINS SUBS	723.921
23	61+65.55	74.05' LT	SW BLT FH AT NW COR RAWSON+HOWELL AV	725.280



PROJECT NO: 2050-08-71	HWY: CTH BB	COUNTY: MILWAUKEE	PLAN AND PROFILE: W. RAWSON AVENUE (EASTBOUND)	SHEET 241	E

FILE NAME : \\W3027S02\DPPI$\DPW PROFESSIONAL\DATA\HIGHWAY OPERATIONS CONTROL FILE\CENTRAL FILES\2010-2014\CTH BB - W. RAWSON AVE\2050-08-01 S 13TH ST TO W HOWELL AVE\DESIGN\PLANS\2050080130_01.DWG 10/30/2015 6:55 PM
LAYOUT NAME - 09
PLOT BY : HILLIARD, MARC PLOT NAME : PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 44



PROJECT NO: 2050-08-71	HWY: CTH BB	COUNTY: MILWAUKEE	PLAN AND PROFILE: W. RAWSON AVENUE (WESTBOUND)	SHEET 242	E

FILE NAME : \\W3027S02\DPPIS\DPW PROFESSIONAL\DATA\HIGHWAY OPERATIONS CONTROL FILE\CENTRAL FILES\2010-2014\CTH BB - W. RAWSON AVE\2050-08-01 S 13TH ST TO W HOWELL AVE\DESIGN\PLANS\2050080130220DWG.dgn
LAYOUT NAME - 01
PLOTTED : 10/30/2024 04:46PM
PLOT BY : HILLIARD, MARC
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 44

W. RAWSON AVENUE (CTH BB)

S. 10TH STREET

SLOPE INTERCEPT (TYP)

CAUTION

PGL W RAWSON AVE WB

R/L W RAWSON AVE

EXISTING PROFILE @ PGL

PROPOSED PROFILE @ PGL

-0.58%

EXISTING ELEV.

PROPOSED ELEV.

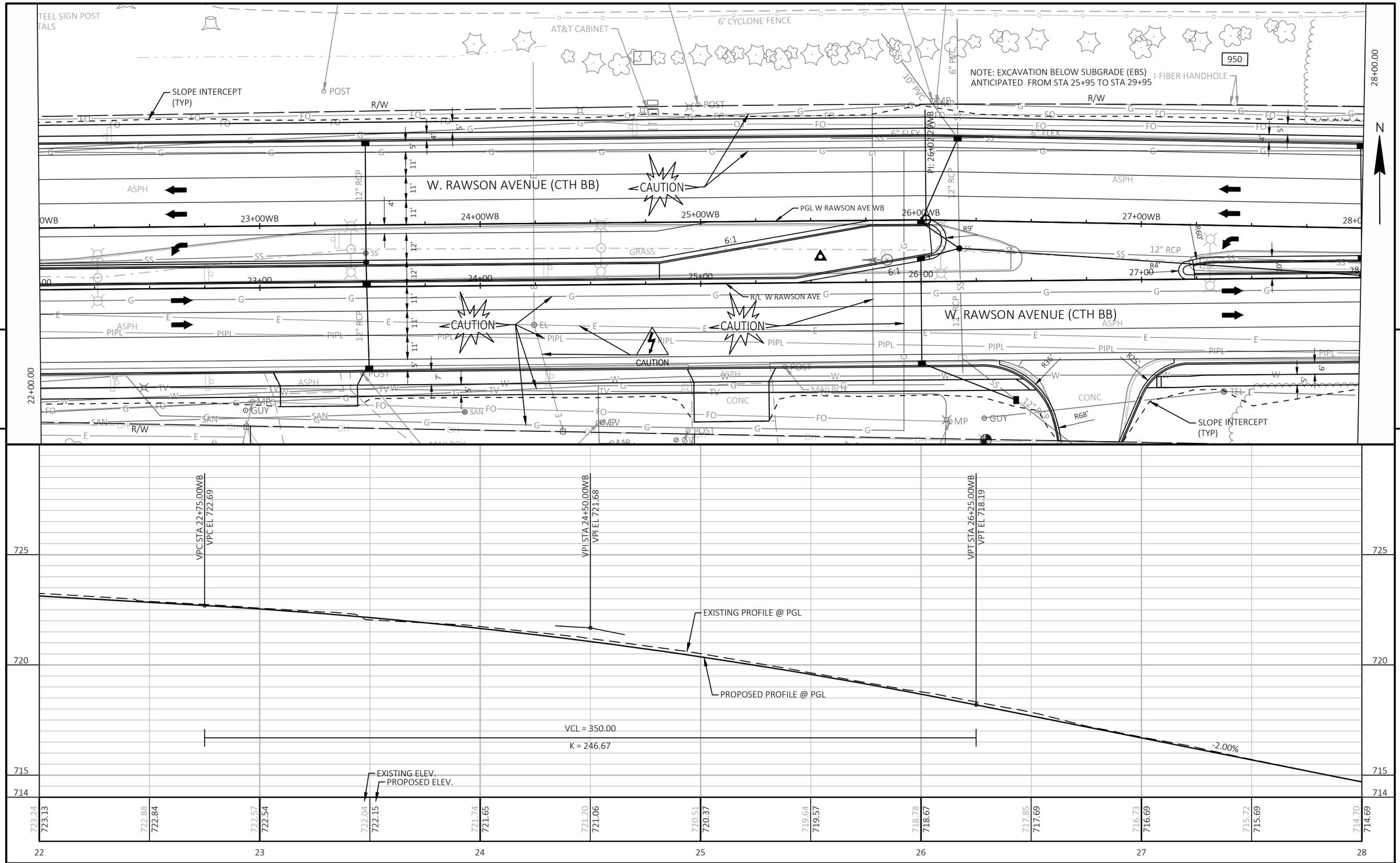
16	17	18	19	20	21	22
727.13	726.67	726.38	726.12	725.99	725.43	725.15	724.82	724.30	724.17	723.80	723.52	723.24
726.59	726.31	726.02	725.73	725.44	725.15	724.86	724.57	724.28	723.99	723.70	723.42	723.13

PROJECT NO: 2050-08-71	HWY: CTH BB	COUNTY: MILWAUKEE	PLAN AND PROFILE: W. RAWSON AVENUE (WESTBOUND)	SHEET 243	E

FILE NAME : \\W3027S02\DPPIS\DPW PROFESSIONAL\DATA\HIGHWAY OPERATIONS CONTROL FILE\CENTRAL FILES\2010-2014\CTH BB - W. RAWSON AVE\2050-08-01 S 13TH ST TO W HOWELL AVE\DESIGN\PLANS\2050083D730P2024.DWG
LAYOUT NAME - 02

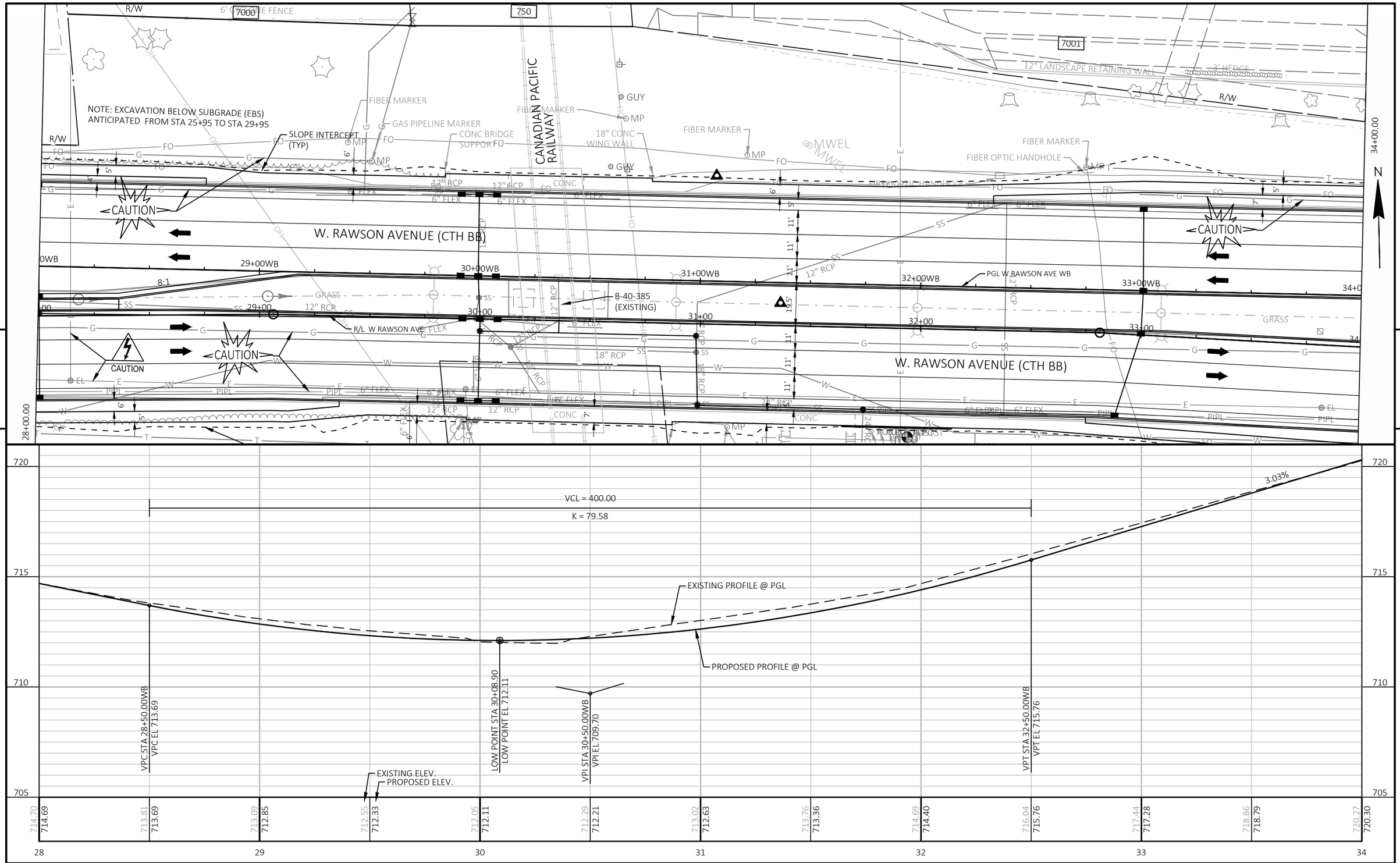
PLOT BY : HILLIARD, MARC PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 44



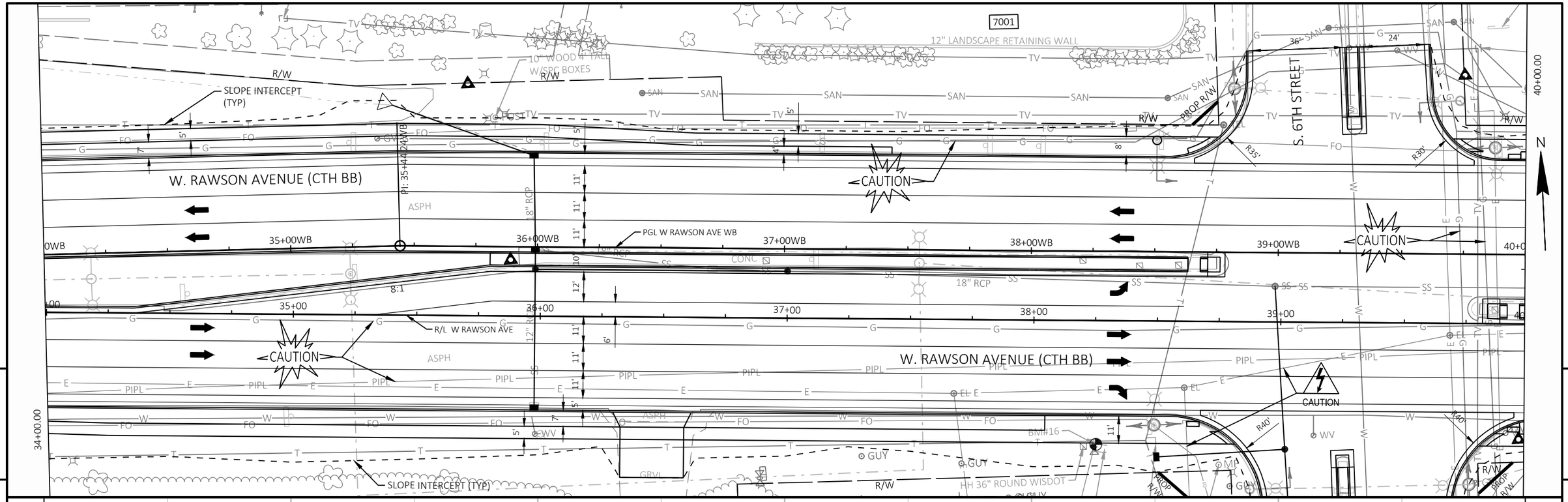
PROJECT NO: 2050-08-71	HWY: CTH BB	COUNTY: MILWAUKEE	PLAN AND PROFILE: W. RAWSON AVENUE (WESTBOUND)	SHEET 244	E

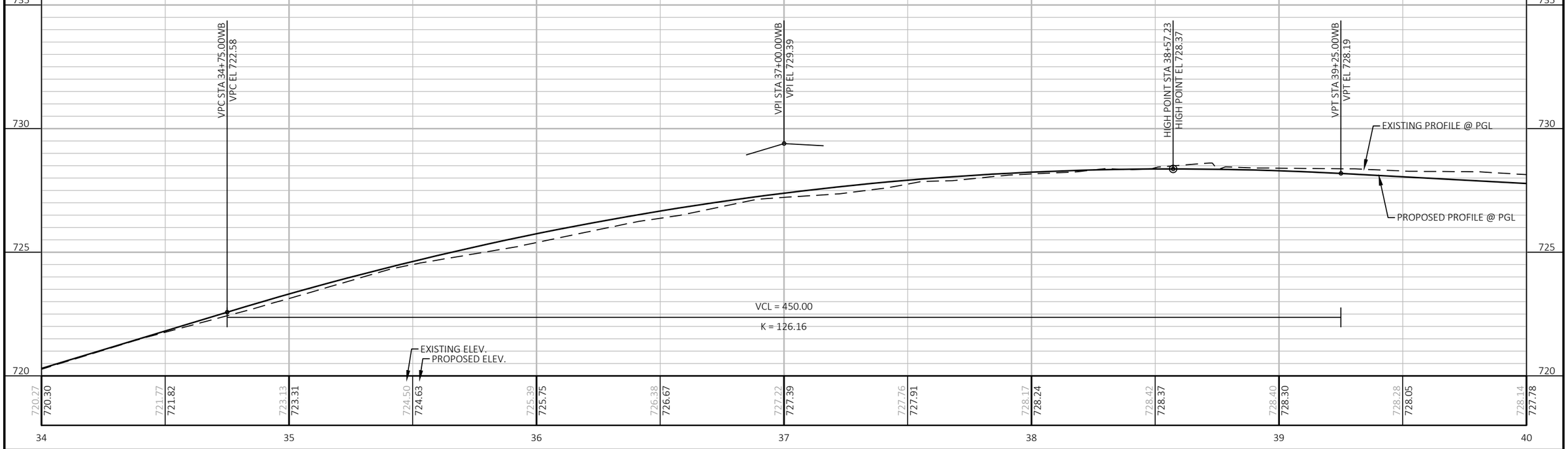
FILE NAME : \\W3027S02\DPPI$\DPW PROFESSIONAL\DATA\HIGHWAY OPERATIONS CONTROL FILE\CENTRAL FILES\2010-2014\CTH BB - W. RAWSON AVE\2050-08-01 S 13TH ST TO W HOWELL AVE\DESIGN\PLANS\2050080130_PP_W_RAWSON_WB.DWG
LAYOUT NAME - 03
PLOTTED : 10/30/2024 3:04 PM
PLOT BY : HILLIARD, MARC
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 44



PROJECT NO: 2050-08-71	HWY: CTH BB	COUNTY: MILWAUKEE	PLAN AND PROFILE: W. RAWSON AVENUE (WESTBOUND)	SHEET 245 E

FILE NAME : \\W3027S02\DPPIS\DPW PROFESSIONAL\DATA\HIGHWAY OPERATIONS CONTROL FILE\CENTRAL FILES\2010-2014\CTH BB - W. RAWSON AVE\2050-08-01 S 13TH ST TO W HOWELL AVE\DESIGN\PLANS\2050080130_PGVT.DWG
LAYOUT NAME - 04
PLOTTED : 10/30/2024 2:04PM
PLOT BY : HILLIARD, MARC
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 44



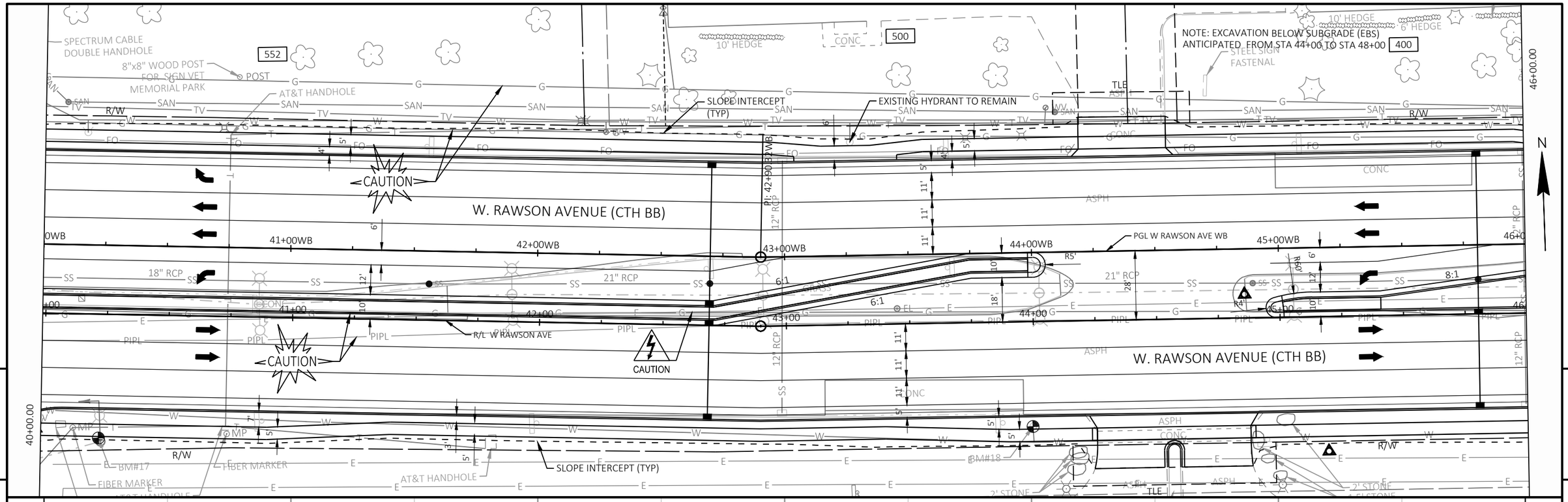


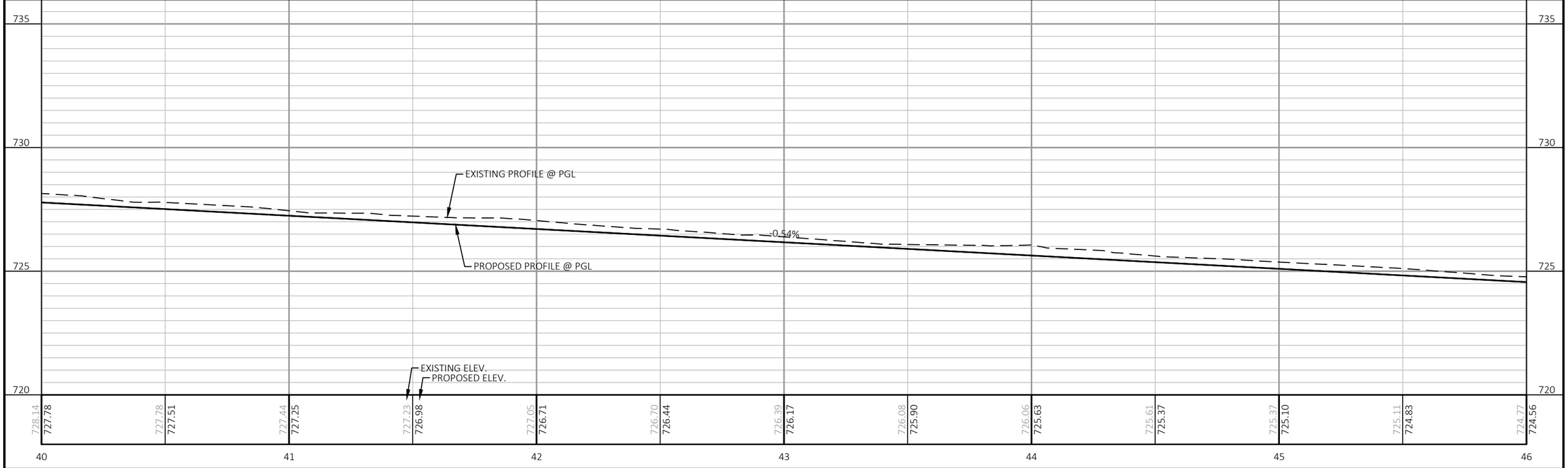
PROJECT NO: 2050-08-71	HWY: CTH BB	COUNTY: MILWAUKEE	PLAN AND PROFILE: W. RAWSON AVENUE (WESTBOUND)	SHEET 246	E

FILE NAME : \\W3027S02\DPPIS\DPW PROFESSIONAL\DATA\HIGHWAY OPERATIONS CONTROL FILE\CENTRAL FILES\2010-2014\CTH BB - W. RAWSON AVE\2050-08-01 S 13TH ST TO W HOWELL AVE\DESIGN\PLANS\2050080... 10/30/2025 7:04:46PM
LAYOUT NAME - 05

PLOT BY : HILLIARD, MARC PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 44





PROJECT NO: 2050-08-71	HWY: CTH BB	COUNTY: MILWAUKEE	PLAN AND PROFILE: W. RAWSON AVENUE (WESTBOUND)	SHEET 247	E

FILE NAME : \\W3027S02\DPPIS\DPW PROFESSIONAL\DATA\HIGHWAY OPERATIONS CONTROL FILE\CENTRAL FILES\2010-2014\CTH BB - W. RAWSON AVE\2050-08-01 S 13TH ST TO W HOWELL AVE\DESIGN\PLANS\2050080730_02.DWG
LAYOUT NAME - 06
PLOTTED : 10/30/2024 1:07PM
PLOT BY : HILLIARD, MARC
PLOT NAME :
PLOT SCALE : 1 IN:40 FT

NOTE: EXCAVATION BELOW SUBGRADE (EBS) ANTICIPATED FROM STA 44+00 TO STA 48+00

EXISTING HYDRANT TO REMAIN

CAUTION

W. RAWSON AVENUE (CTH BB)

SLOPE INTERCEPT (TYP)

R/W

TLE

4' STONE

15" STONE RETAINING WALL

10' HEDGE

MAILBOX

GRVL

ASPH

CONC

GRASS

21" RCP

24" RCP

12" RCP

R8'

R/L W RAWSON AVE

PGL W RAWSON AVE WB

SLOPE INTERCEPT (TYP)

N

0.54%

EXISTING PROFILE @ PGL

PROPOSED PROFILE @ PGL

EXISTING ELEV.

PROPOSED ELEV.

724.77	724.56	724.52	724.29	724.31	724.02	724.11	723.75	723.84	723.48	723.56	723.22	723.26
722.95	723.10	722.68	722.82	722.41	722.51	722.14	722.20	721.87	721.93	721.60	721.72	721.34

PROJECT NO: 2050-08-71	HWY: CTH BB	COUNTY: MILWAUKEE	PLAN AND PROFILE: W. RAWSON AVENUE (WESTBOUND)	SHEET 248	E

FILE NAME : \\W3027S02\DPPIS\DPW PROFESSIONAL\DATA\HIGHWAY OPERATIONS CONTROL FILE\CENTRAL FILES\2010-2014\CTH BB - W. RAWSON AVE\2050-08-01 S 13TH ST TO W HOWELL AVE\DESIGN\PLANS\2050080130_2024.DWG
LAYOUT NAME - 07

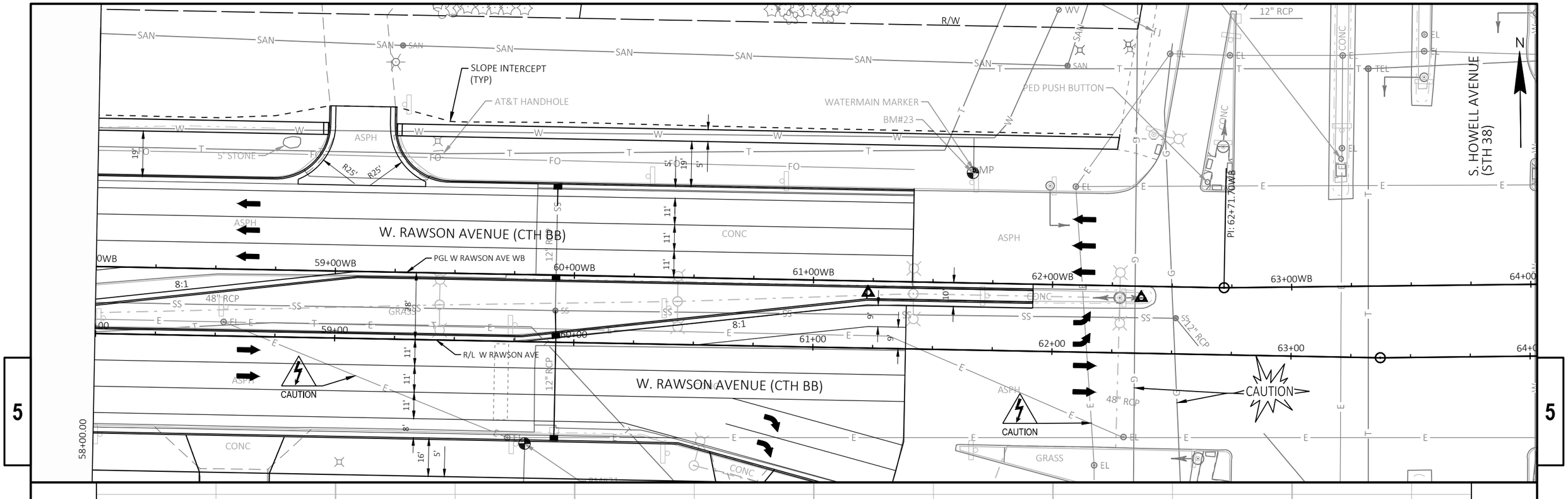
PLOTTED : 10/30/2024 3:05 PM PLOT BY : HILLIARD, MARC PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 44

NORTH BRANCH OAK CREEK
WETLAND BOUNDARY (TYP)
GRUBBING (CLEARING BY OTHERS)
SLOPE INTERCEPT (TYP)
W. RAWSON AVENUE (CTH BB)
PGL W RAWSON AVE WB
B-40-389 (EXISTING)
R/L W RAWSON AVE
CAUTION
CONC. HEADWALL
R/W
ASPH
CONC
48" RCP
24" RCP
12" RCP
11'X6' CULVERT
16'X10' CULVERT (ABANDONED)
53+00WB
54+00WB
55+00WB
56+00WB
57+00WB
52+00.00
58+00.00
N

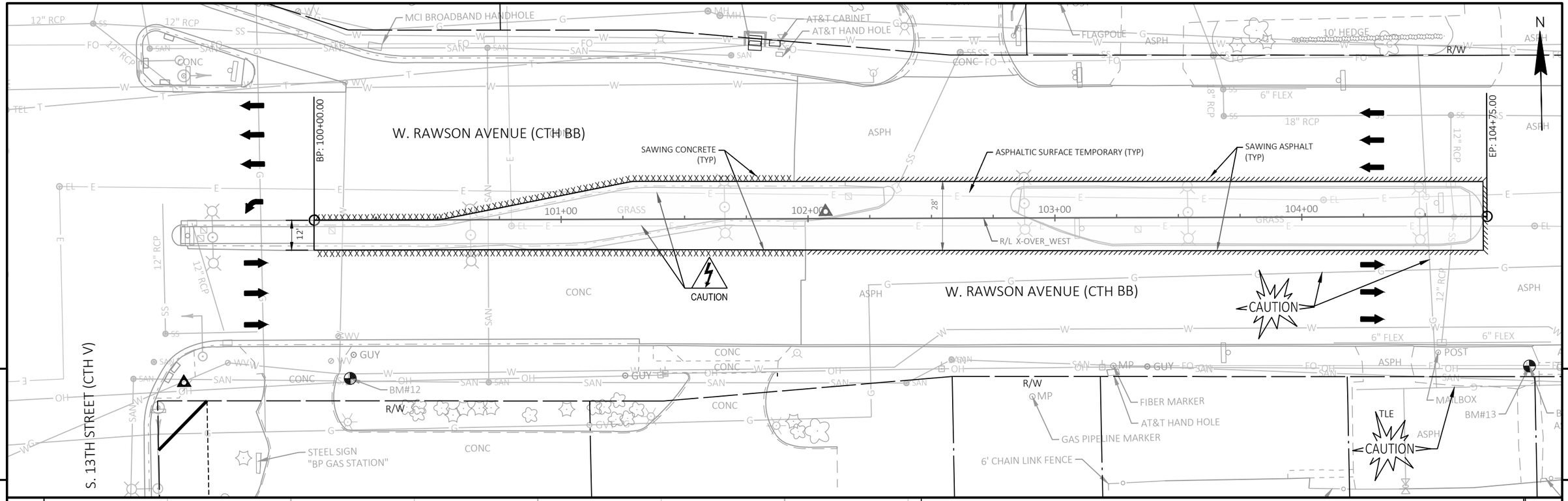
VCL = 400.00
K = 406.17
EXISTING PROFILE @ PGL
PROPOSED PROFILE @ PGL
VPC STA 53+50.00WB
VPC EL 720.53
VPI STA 55+50.00WB
VPI EL 719.46
LOW POINT STA 55+68.20
LOW POINT EL 719.94
VPT STA 57+50.00WB
VPT EL 720.35
EXISTING ELEV.
PROPOSED ELEV.

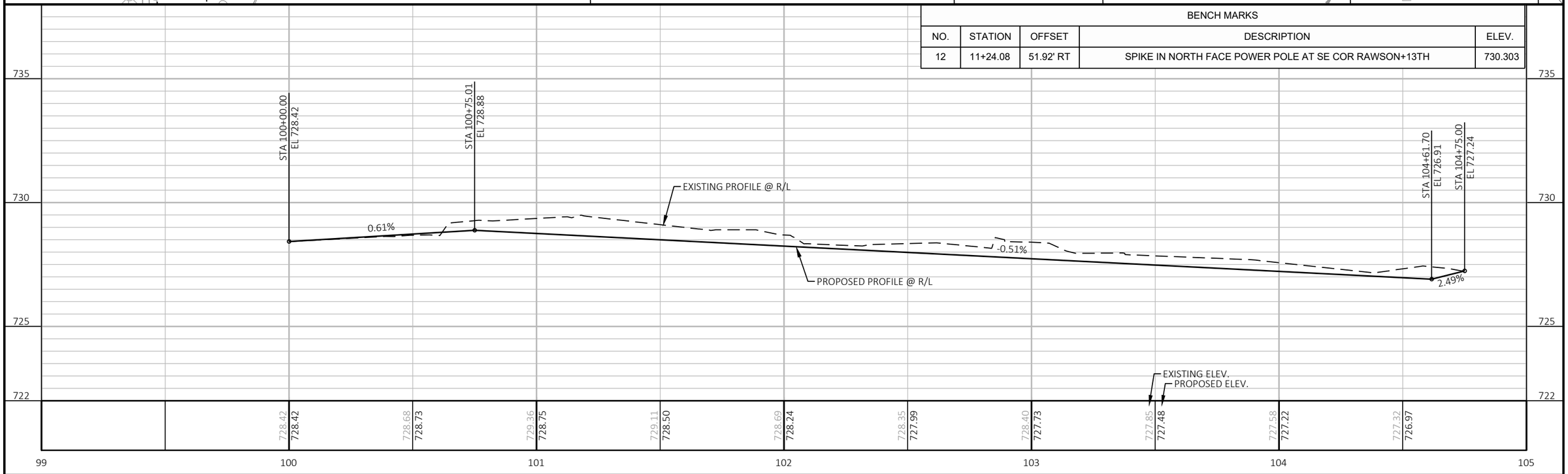
| | | |



PROJECT NO: 2050-08-71	HWY: CTH BB	COUNTY: MILWAUKEE	PLAN AND PROFILE: W. RAWSON AVENUE (WESTBOUND)	SHEET 250 E

FILE NAME : \\W3027S02\DPPIS\DPW PROFESSIONAL\DATA\HIGHWAY OPERATIONS CONTROL FILE\CENTRAL FILES\2010-2014\CTH BB - W. RAWSON AVE\2050-08-01 S 13TH ST TO W HOWELL AVE\DESIGN\PLANS\2050080130_PP.DWG
LAYOUT NAME - 09
10/30/2024 1:07:16 PM
PLOT BY : HILLIARD, MARC
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 44



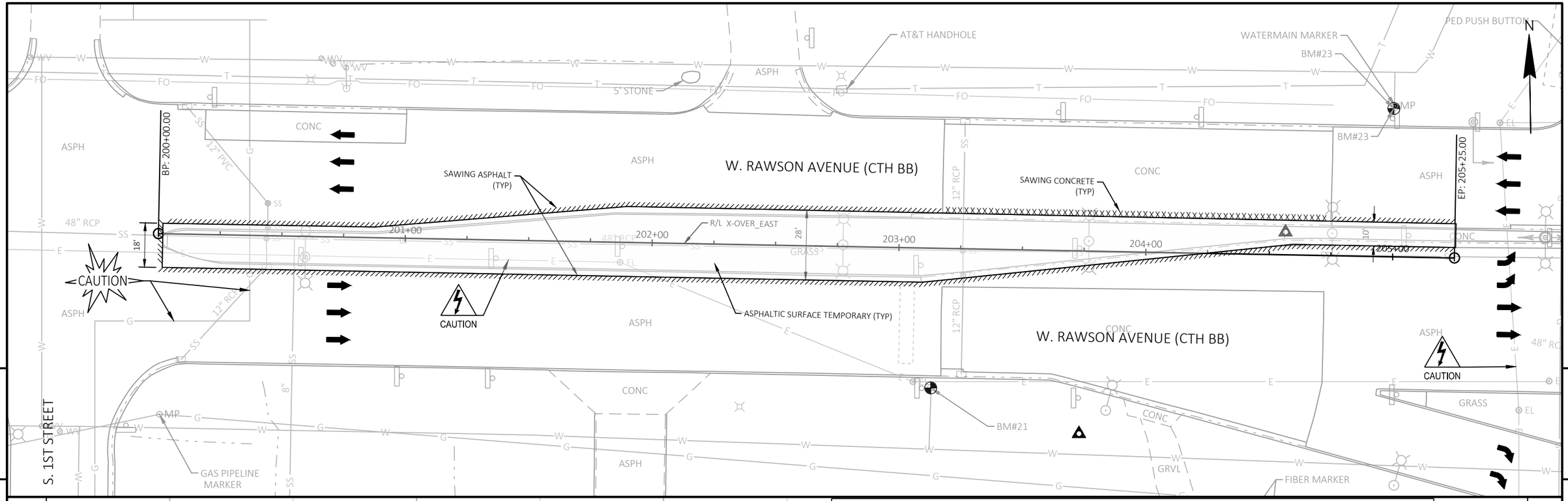


BENCH MARKS

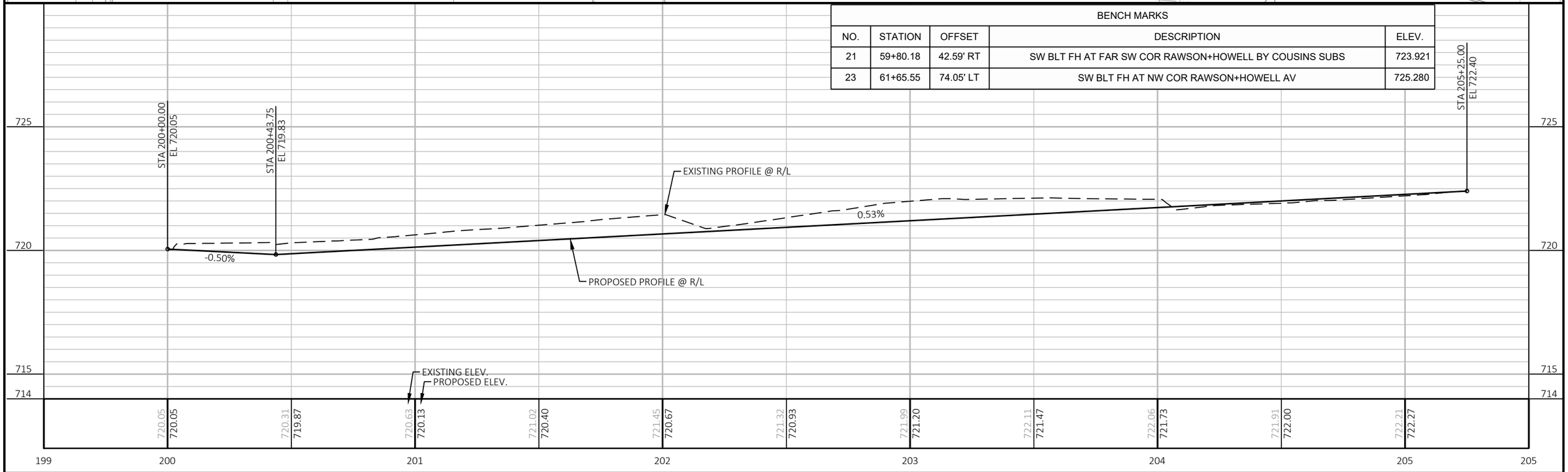
NO.	STATION	OFFSET	DESCRIPTION	ELEV.
12	11+24.08	51.92' RT	SPIKE IN NORTH FACE POWER POLE AT SE COR RAWSON+13TH	730.303

PROJECT NO: 2050-08-71	HWY: CTH BB	COUNTY: MILWAUKEE	PLAN AND PROFILE: W. RAWSON AVE- CROSS OVER (WEST)	SHEET 251	E

FILE NAME : O:\HIGHWAY OPERATIONS CONTROL FILE\CENTRAL FILES\2010-2014\CTH BB - W. RAWSON AVE\2050-08-01 S 13TH ST TO W HOWELL AVE\DESIGN\PLANS\20500801_PP-XOVERS.DWG PLOT DATE : 10/30/2024 4:31 PM PLOT BY : MASTERS, ANDREA PLOT NAME : PLOT SCALE : 1 IN:40 FT
LAYOUT NAME - 01



BENCH MARKS				
NO.	STATION	OFFSET	DESCRIPTION	ELEV.
21	59+80.18	42.59' RT	SW BLT FH AT FAR SW COR RAWSON+HOWELL BY COUSINS SUBS	723.921
23	61+65.55	74.05' LT	SW BLT FH AT NW COR RAWSON+HOWELL AV	725.280



PROJECT NO: 2050-08-71	HWY: CTH BB	COUNTY: MILWAUKEE	PLAN AND PROFILE: W. RAWSON AVE- CROSS OVER (EAST)	SHEET 252	E

FILE NAME : O:\HIGHWAY OPERATIONS CONTROL FILE\CENTRAL FILES\2010-2014\CTH BB - W. RAWSON AVE\2050-08-01 S 13TH ST TO W HOWELL AVE\DESIGN\PLANS\20500801_PP-XOVERS.DWG LAYOUT NAME - 02 PLOT DATE : 10/30/2024 4:31 PM PLOT BY : MASTERS, ANDREA PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 44

Standard Detail Drawing List

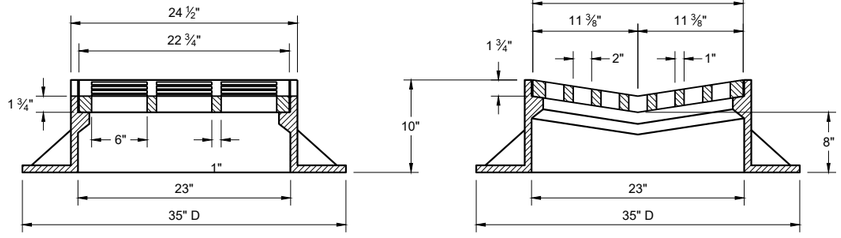
08A05-21B	INLET COVERS TYPE B, B-A, C, MS, MS-A, & WM
08A08-03	CATCH BASINS 3-FT, 4-FT, 5-FT AND 6-FT DIAMETER
08B09-04	MANHOLES 3-FT, 4-FT, 5-FT, 6-FT, 7-FT, 8-FT, 9-FT, 10-FT DIAMETER
08C07-03	INLETS 2X2-FT, 2X2.5-FT, 2X3-FT, 2.5X3-FT & 2X3.5-FT
08D01-23A	CONCRETE CURB & GUTTER
08D01-23B	CONCRETE CURB, TIES AND CURB AND GUTTER APPLICATIONS
08D05-21A	CURB RAMPS TYPES 1 AND 1-A
08D05-21B	CURB RAMPS TYPES 2 AND 3
08D05-21C	CURB RAMPS TYPES 4A AND 4A1
08D05-21D	CURB RAMPS TYPE 4B AND 4B1
08D05-21E	CURB RAMPS TYPES 5, 6, 7A, 7B & 8
08D05-21F	CURB RAMPS RADIAL DETECTABLE WARNING FIELD APPLICATIONS
08D05-21G	CURB RAMPS RECTANGULAR AND RADIAL DETECTABLE WARNING PLATES
08D16-11	CONCRETE GUTTER, CURB AND GUTTER AND PAVEMENT TIES
08D18-04	DRIVEWAY AND SIDEWALK RAMPS TYPES X & Y
08D19-04	DRIVEWAY AND SIDEWALK RAMPS TYPE Z
08D20-01	DRIVEWAYS WITH CURB & GUTTER RETURNS
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
08F04-08	JOINT TIES FOR CONCRETE PIPE AND CONCRETE COLLAR DETAIL
08F10-02	CONCRETE MASONRY ENDWALLS FOR CULVERT PIPE AND PIPE ARCH
09A01-14A	AT-GRADE SIDE ROAD INTERSECTION, TYPES "B1", "B2", "C" AND D AND TEE INTERSECTION BYPASS LANE
09B02-10	CONDUIT
09B04-12	PULL BOX
09B04-13	PULL BOX
09C02-09	CONCRETE BASES, TYPES 1, 2, 5, & 6
09C03-04	TRANSFORMER/PEDESTAL BASES
09E01-15G	POLE MOUNTINGS FOR TRAFFIC SIGNALS AND LIGHTING UNITS, TYPE 4
09E06-05	HARDWARE DETAILS FOR POLE MOUNTINGS
09E08-09K	TRAFFIC SIGNAL STANDARD POLY BRACKET MOUNTINGS (TYPICAL) 13 FT. OR 15 FT.
09F15-04B	GENERAL NOTES,HARDWARE DETAILS FOR TYPE 9/10,9/10 SPECIAL,12 & 13 POLES W/MONOTUBE ARMS
09G01-04A	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)
09G01-04B	SPAN WIRE TEMPORARY TRAFFIC SIGNAL
09G01-04C	SPAN WIRE TEMPORARY TRAFFIC SIGNAL
09G01-04D	SPAN WIRE TEMPORARY TRAFFIC SIGNAL
09G01-04E	SPAN WIRE TEMPORARY TRAFFIC SIGNAL
09G01-04F	SPAN WIRE TEMPORARY TRAFFIC SIGNAL
09G01-04G	SPAN WIRE TEMPORARY TRAFFIC SIGNAL
09H09-02	SPAN WIRE TEMPORARY TRAFFIC SIGNAL
09H10-01	COMMUNICATION VAULT TYPE 1
09H11-01	COMMUNICATION VAULT TYPE - ROUND
11B02-02	IDENTIFICATION PLAQUE REQUIREMENTS AND PLACEMENTS
13A03-07	CONCRETE MEDIAN NOSE
13C01-19	CONCRETE PAVEMENT SHOULDERS
13C16-02A	CONCRETE PAVEMENT LONGITUDINAL JOINTS AND TIES
13C16-02B	DETAIL FOR RIGHT TURN LANE/TEE INTERSECTION BYPASS LANE ON A CONRETE ROADWAY
13C18-08A	DETAIL FOR RIGHT TURN LANE/TEE INTERSECTION BYPASS LANE ON A CONRETE ROADWAY
13C18-08C	CONCRETE PAVEMENT JOINTING
13C18-08F	CONCRETE PAVEMENT JOINT TYPES
15B03-15A	CONCRETE PAVEMENT INTERSECTION BOXOUT FOR INTEGRAL CURB AND GUTTER
15B03-15B	FENCE CHAIN LINK
15C02-09B	FENCE CHAIN LINK
15C03-05	BARRICADES AND SIGNS FOR VARIOUS CLOSURES
15C07-15B	BARRICADES AND SIGNS FOR SIDEROAD CLOSURES
15C07-15C	PAVEMENT MARKING WORDS
15C08-23A	PAVEMENT MARKING ARROWS
15C08-23B	PERMANENT LONGITUDINAL PAVEMENT MARKINGS
15C08-23C	TEMPORARY LONGITUDINAL PAVEMENT MARKING
15C08-23D	PAVEMENT MARKING (TURN LANES)
15C11-10A	PAVEMENT MARKING (TURN LANES)
15C11-10B	CHANNELIZING DEVICES FLEXIBLE TUBULAR MARKER POST
15C18-09A	CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS
	MEDIAN ISLAND MARKINGS

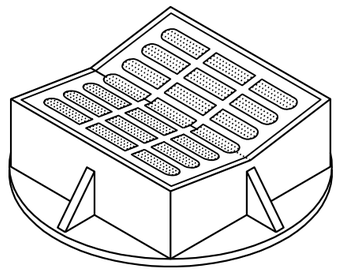
6

Standard Detail Drawing List

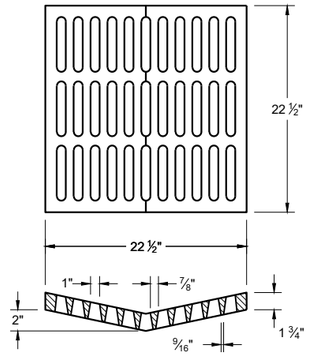
15C18-09B	PAVEMENT MARKINGS, MEDIAN ISLAND NOSE
15C18-09C	MEDIAN PAVEMENT MARKINGS DOUBLE ARROW WARNING SIGN PLACEMENT
15C20-02	YIELD MARKING
15C33-05	STOP LINE AND CROSSWALK PAVEMENT MARKING
15C35-06A	PAVEMENT MARKING (INTERSECTIONS)
15D20-08A	TRAFFIC CONTROL, SINGLE LANE CLOSURE, DIVIDED NON-FREEWAY/EXPRESSWAY
15D20-08B	TRAFFIC CONTROL, SINGLE RIGHT LANE CLOSURE, UNDIVIDED NON-FREEWAY/EXPRESSWAY
15D20-08C	TRAFFIC CONTROL, SINGLE LEFT LANE CLOSURE, UNDIVIDED NON-FREEWAY/EXPRESSWAY
15D21-07A	TRAFFIC CONTROL, INTERSECTION WITHIN SINGLE LANE CLOSURE
15D21-07B	TRAFFIC CONTROL, INTERSECTION WITHIN SINGLE LANE CLOSURE
15D30-09A	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
15D30-09B	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
15D30-09C	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
15D30-09D	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
15D30-09E	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
15D30-09F	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
15D30-09G	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
15D30-09H	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
15D30-09I	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
15D30-09J	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
15D30-09K	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
15D30-09L	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
15D40-05A	TRAFFIC CONTROL, FULL LANE SHIFT NON-FREEWAY OR MULTILANE DIVIDED 45 MPH AND UNDER
15D41-04A	TRAFFIC CONTROL, MULTIPLE LANE SHIFT, MULTILANE DIVIDED ROAD
15D46-01	TRAFFIC CONTROL, ONE - WAY SIGNING
15D50-03A	TRAFFIC CONTROL, ADDED LANE CLOSURE WITHOUT LANE SHIFT
15D50-03B	TRAFFIC CONTROL, ADDED LANE CLOSURE WITH LANE SHIFT
16A01-07	LANDMARK REFERENCE MONUMENTS AND COVERS

6





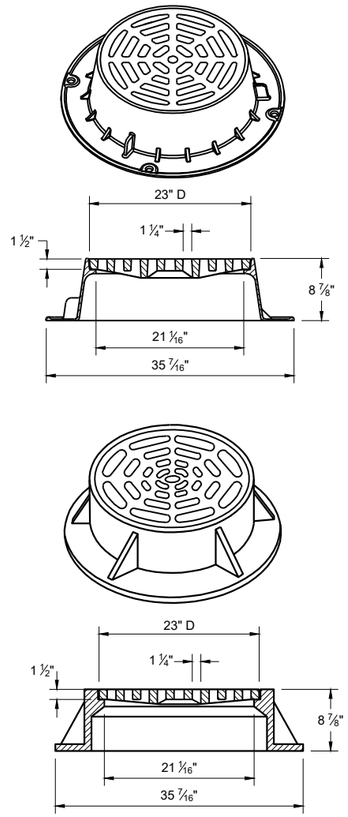
TYPE "B"



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"

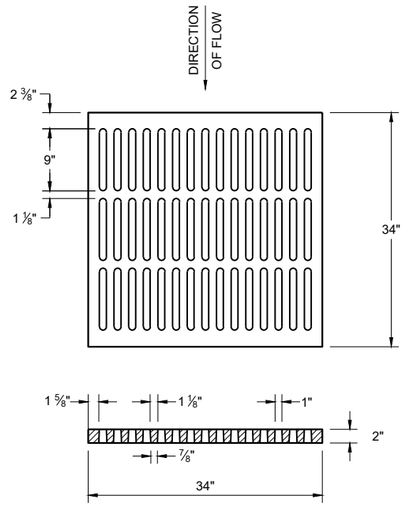
NOTE: EITHER CASTING IS ACCEPTABLE

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.

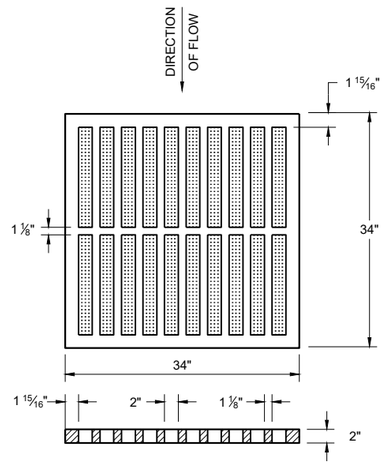
ROUND FRAMES AND COVERS SHALL HAVE CONTINUOUSLY MACHINED BEARING SURFACES TO PREVENT ROCKING AND RATTLING.



ALTERNATIVE TYPE "MS"

USE WHERE PEDESTRIAN OF BICYCLE TRAFFIC IS PERMITTED

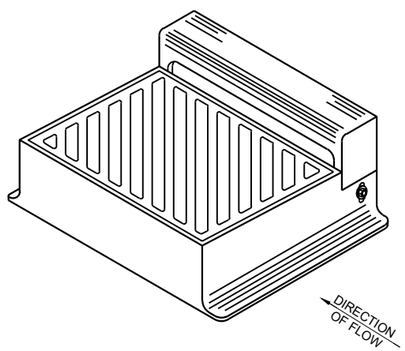
NOTED AS TYPE MS-A ON THE DRAINAGE TABLE



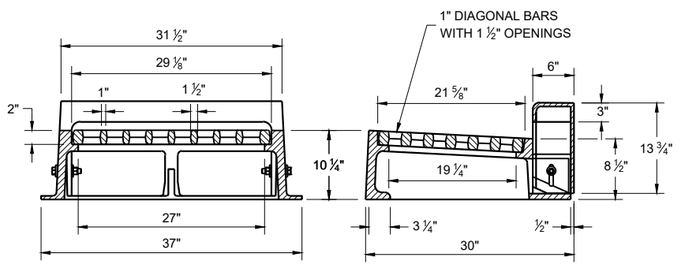
TYPE "MS"

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"

INLET COVERS TYPES B, B-A, C, MS, MS-A AND WM

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

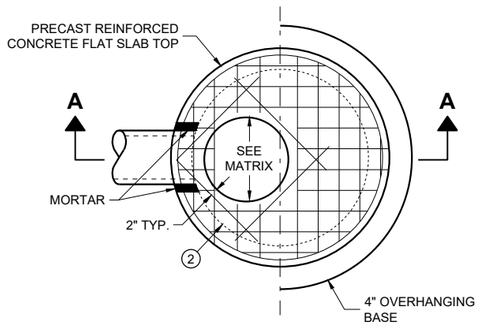
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December 2023 — DATE
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FHWA

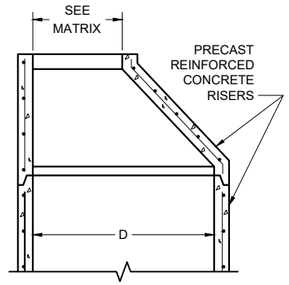
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SDD 08A05-21b

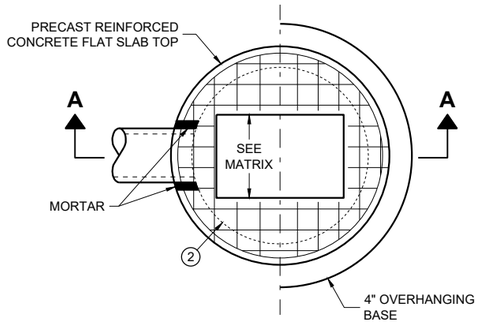
SDD 08A05-21b



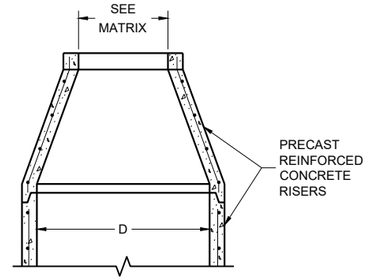
PLAN VIEW CIRCULAR OPENING



OPTIONAL PRECAST REINFORCED CONCRETE ECCENTRIC TOP



PLAN VIEW RECTANGULAR OPENING



OPTIONAL PRECAST REINFORCED CONCRETE CONCENTRIC TOP

COVER MATRIX

CATCH BASIN SIZE	INLET COVER TYPE	ALL A'S	ALL B'S	BW	C	F	ALL H'S	S	T	V V-B	VV-B	WM	Z
	OPENING SIZE (FT.)												
3-FT	2 X 2	X	X					X		X			
	2 DIA.				X								X
4-FT TO 6-FT	2 X 2	X	X					X		X			
	2 X 2.5			X				X	X	X		X	
	2 DIA.				X								X
	2 X 3						X						
	2.5 X 3					X							
	2 X 3.5*										X*		

* REQUIRES 5-FT DIAMETER OR LARGER STRUCTURE

PIPE MATRIX

CATCH BASIN SIZE	MAXIMUM INSIDE PIPE DIAMETER FOR TWO PIPES	
	180° SEPARATION (IN)	90° SEPARATION (IN)
3-FT	15	12
4-FT	24	18
5-FT	36	24
6-FT	42	30

CATCH BASINS 3-FT, 4-FT, 5-FT AND 6-FT DIAMETER

GENERAL NOTES

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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.

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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 DIMENSION 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 INLET 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".

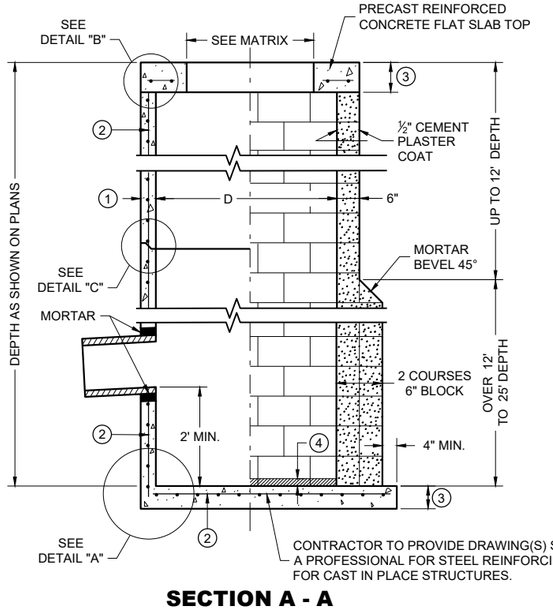
(1) MINIMUM WALL THICKNESS SHALL BE 4 INCHES FOR 3-FT, 5 INCHES FOR 4-FT, 6 INCHES FOR 5-FT AND 7 INCHES FOR 6-FT DIAMETER PRECAST CATCH BASINS.

(2) FOR PRECAST CATCH BASINS AND REINFORCED CONCRETE BASES PROVIDE REINFORCING STEEL IN ACCORDANCE TO AASHTO M199.

(3) PRECAST FLAT SLAB TOPS AND BASES WITH A DIAMETER OF 48" AND LESS SHALL HAVE A MINIMUM THICKNESS OF 6". PRECAST FLAT SLAB TOPS AND BASES WITH A DIAMETER LARGER THAN 48" SHALL HAVE A MINIMUM THICKNESS OF 8".

(4) 1" CONCRETE KEY POURED AFTER INSTALLATION. 2' SUMP MEASURED FROM TOP OF KEY.

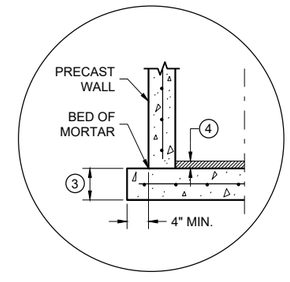
(5) JOINTS TO BE SEALED WITH A BUTYL RUBBER SEAL PER SEALANT MANUFACTURERS RECOMMENDATIONS CONFORMING TO ASTM C 990 OR RUBBER GASKETS CONFROMING TO ASTM C443.



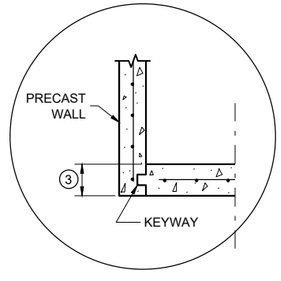
SECTION A - A

PRECAST REINFORCED CONCRETE WITH MONOLITHIC BASE

CONCRETE BLOCK WITH CAST IN PLACE OR PRECAST REINFORCED CONCRETE BASE (2)

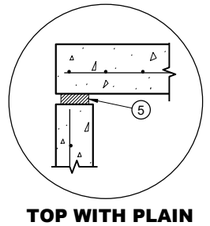


SEPARATE PRECAST REINFORCED CONCRETE BASE OPTION

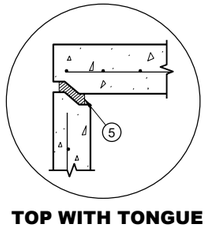


PRECAST REINFORCED CONCRETE WITH INTEGRAL BASE OPTION

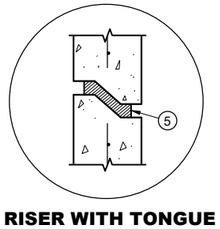
DETAIL "A"



TOP WITH PLAIN END JOINT

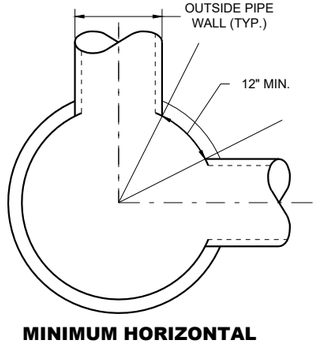


TOP WITH TONGUE AND GROOVE JOINT



RISER WITH TONGUE AND GROOVE JOINT

DETAIL "B" **DETAIL "C"**



MINIMUM HORIZONTAL PIPE SEPARATION

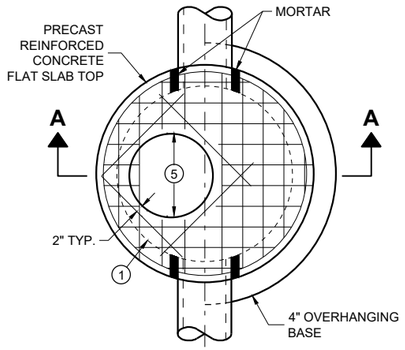
DETAIL "D"

CATCH BASINS, 3-FT. 4-FT., 5 FT., AND 6-FT. DIAMETER

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

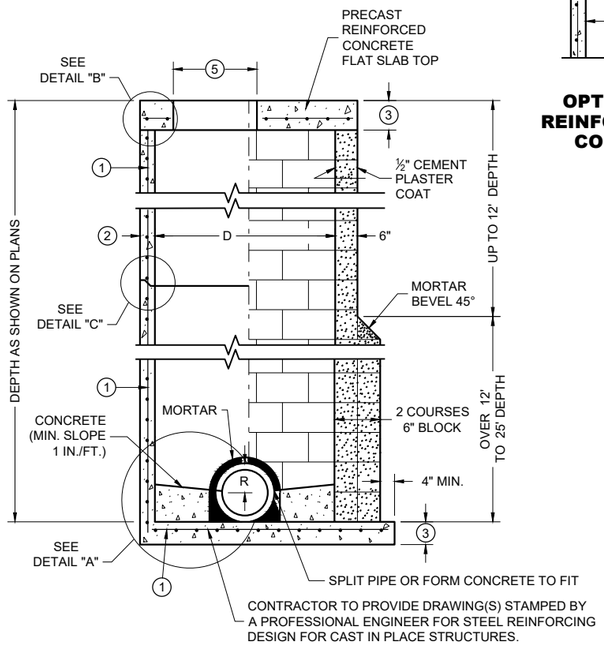
APPROVED
December 2023 — DATE
/S/ Rodney Taylor — ROADWAY STANDARDS DEVELOPMENT UNIT SUPERVISOR
FHWA

6
SDD 08A08-03



PLAN VIEW

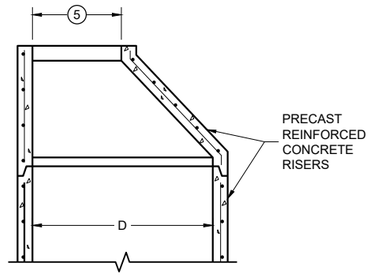
CIRCULAR OPENING



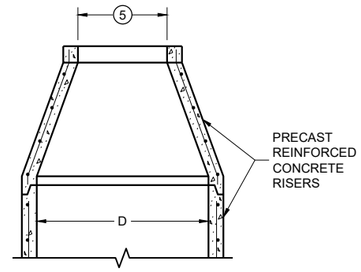
SECTION A - A

PRECAST REINFORCED CONCRETE WITH MONOLITHIC BASE

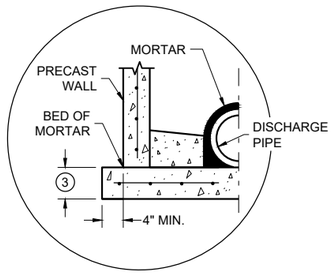
CONCRETE BLOCK WITH CAST IN PLACE OR PRECAST REINFORCED CONCRETE BASE (1)



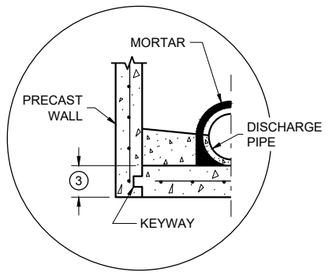
OPTIONAL PRECAST REINFORCED CONCRETE ECCENTRIC TOP



OPTIONAL PRECAST REINFORCED CONCRETE CONCENTRIC TOP

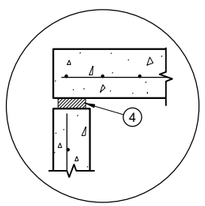


SEPARATE PRECAST REINFORCED CONCRETE BASE OPTION

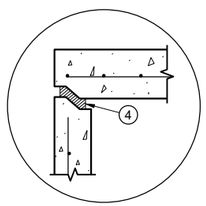


PRECAST REINFORCED CONCRETE WITH INTEGRAL BASE OPTION

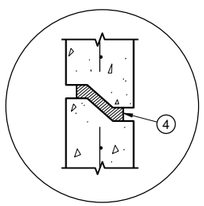
DETAIL "A"



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.

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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".

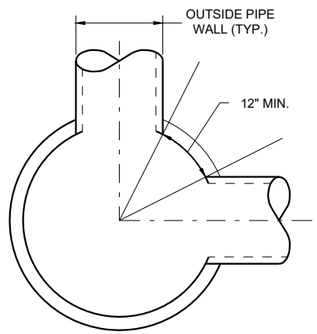
(1) FOR PRECAST MANHOLES AND REINFORCED CONCRETE BASES PROVIDE REINFORCING STEEL IN ACCORDANCE TO AASHTO M199.

(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

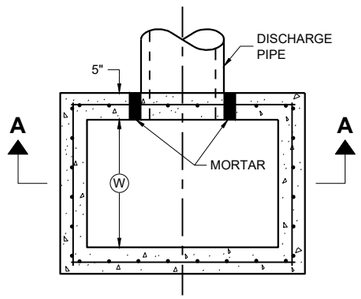
FHWA

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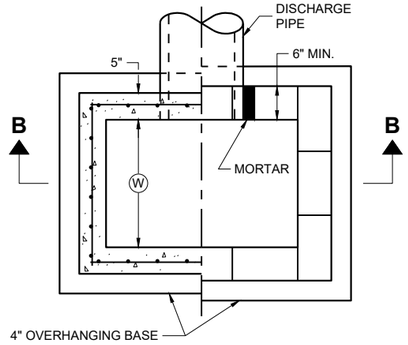
SDD 08B09-04

6

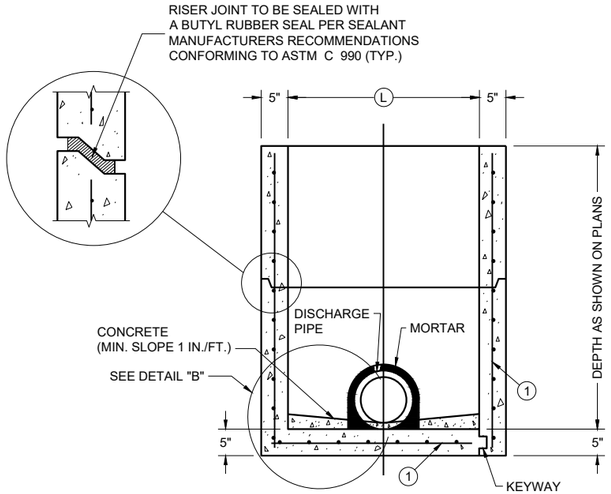
SDD 08B09-04



PLAN VIEW



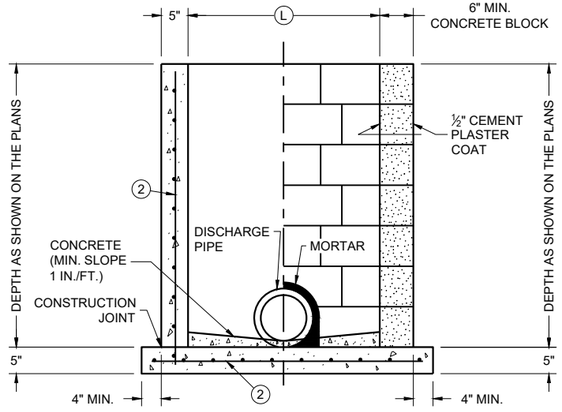
PLAN VIEW



PRECAST REINFORCED CONCRETE WITH MONOLITHIC BASE

PRECAST REINFORCED CONCRETE WITH INTEGRAL BASE

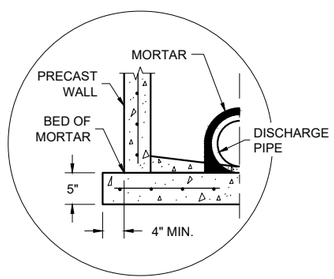
SECTION A - A



CAST IN PLACE REINFORCED CONCRETE

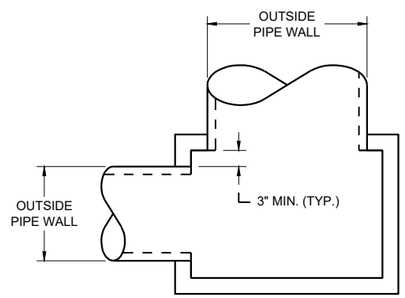
CONCRETE BLOCK WITH CAST IN PLACE OR PRECAST REINFORCED CONCRETE BASE (1)

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

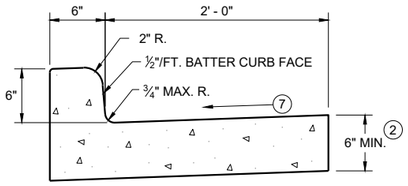
FHWA

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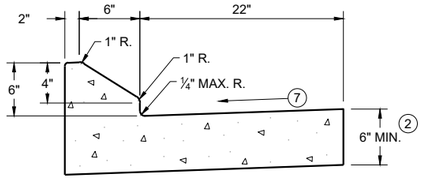
SDD 08C07-03

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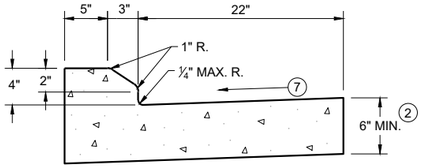
SDD 08C07-03



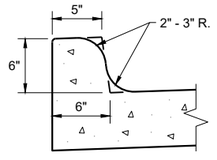
TYPES A (1) & D



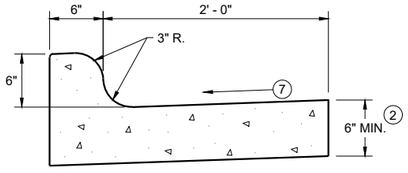
6" SLOPED CURB TYPES G (1) & J



4" SLOPED CURB TYPES G (1) & J

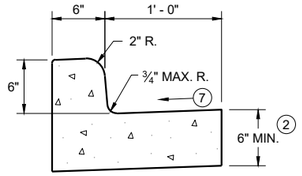


TYPES K (1) & L
(OPTIONAL CURB SHAPE)



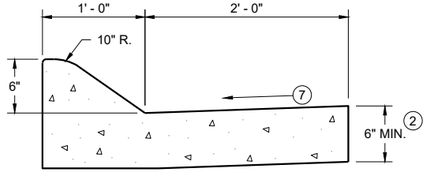
TYPES K (1) & L

CONCRETE CURB AND GUTTER 30"

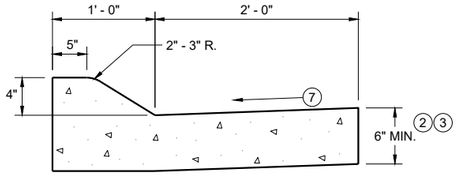


TYPES A (1) & D

CONCRETE CURB AND GUTTER 18"

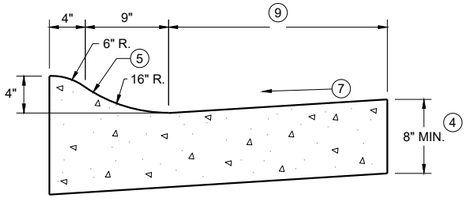


6" SLOPED CURB TYPES A (1) & D



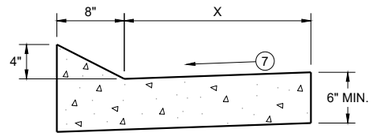
4" SLOPED CURB TYPES A (1) & D

CONCRETE CURB AND GUTTER 36"



4" SLOPED CURB TYPES R (1) & T

TBT & TBTT	X
30"	22"
36"	28"

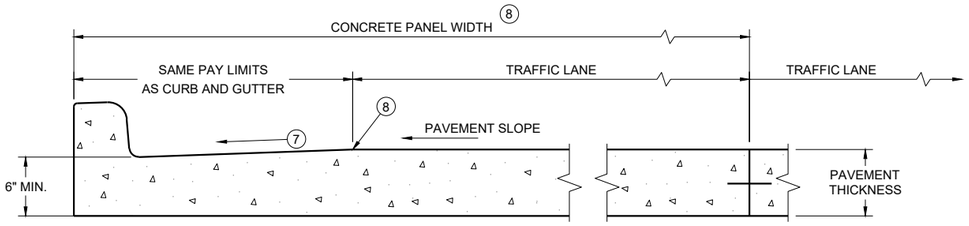


TYPES TBT & TBTT (1)

CONCRETE CURB AND GUTTER

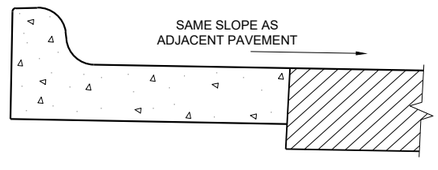
PAVEMENT THICKNESS AND MAXIMUM CONCRETE PANEL WIDTH TABLE

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.

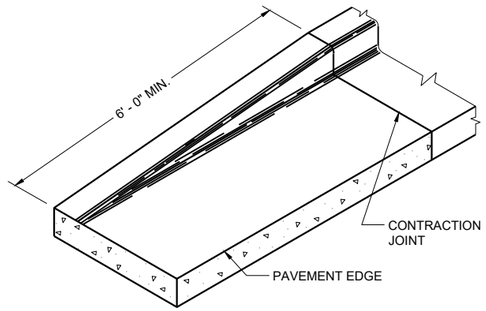
(8) INCLUDE LONGITUDINAL JOINT AND TIE BARS ALONG LANE EDGE WHEN CONCRETE PANEL WIDTH EXCEEDS THE MAXIMUM WIDTH PER TABLE BELOW. LONGITUDINAL JOINT(S) ARE NOT ALLOWED WITHIN TRAFFIC LANES AND BIKE LANES. LONGITUDINAL JOINT MAY BE SAWED.

(9) CONCRETE CURB AND GUTTER 4-INCH SLOPED 30-INCH TYPE "R" AND "T" = 17 INCHES
CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE "R" AND "T" = 23 INCHES

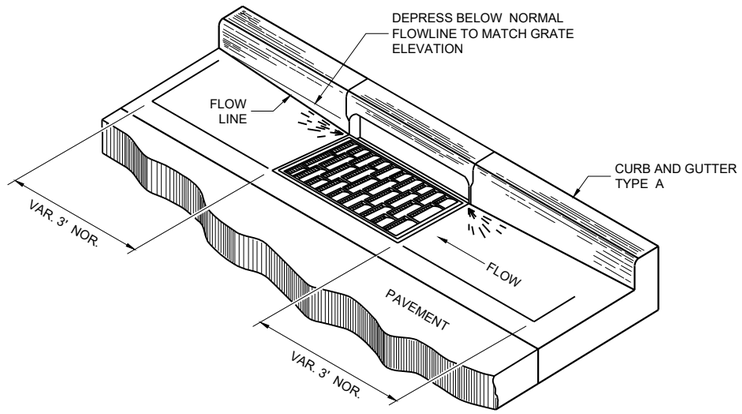
CONCRETE CURB AND GUTTER

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

SDD 08D01-23a



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.

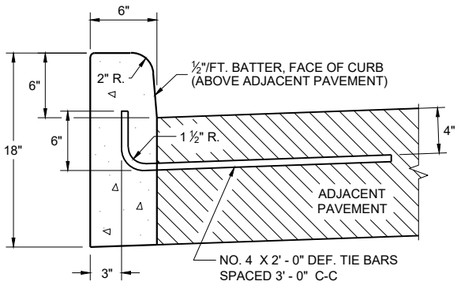
UNLESS OTHERWISE SHOWN ON THE TYPICAL CROSS SECTIONS, THE BASE AGGREGATE AND COMMON EXCAVATION LIMITS ARE 2' - 0" BEHIND THE BACK OF CURBS.

(1) TIE BARS ARE REQUIRED FOR CURB AND GUTTERS TYPES A, G, K, R, AND TBTT.

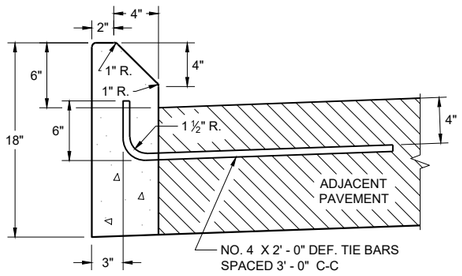
(2) THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE AGGREGATE PROVIDED A 6" MINIMUM GUTTER THICKNESS IS MAINTAINED.

(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.

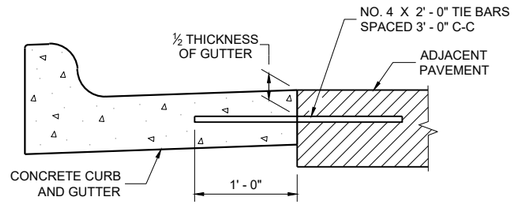


TYPES A (1) & D

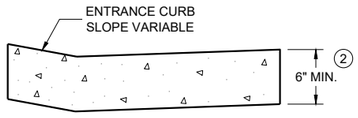


TYPES G (1) & J

CONCRETE CURB

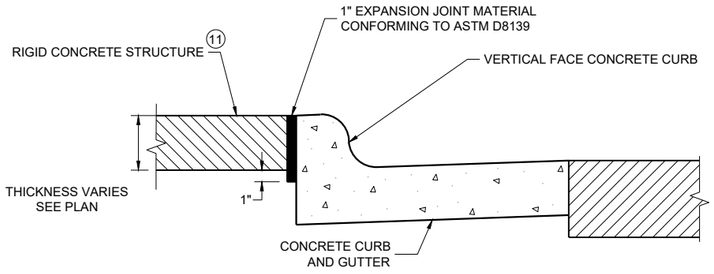


TYPICAL TIE BAR LOCATION (1)

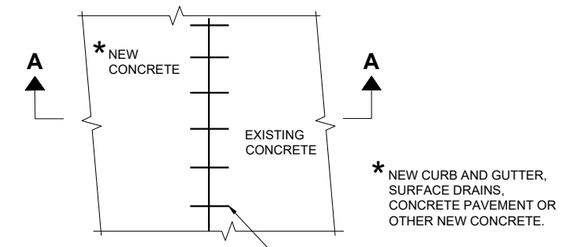


DRIVEWAY ENTRANCE CURB (10)

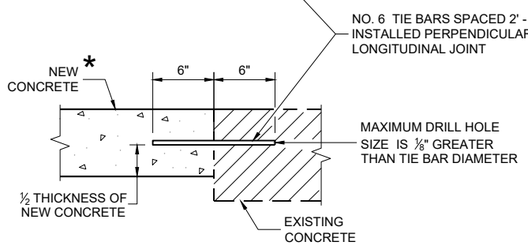
(WHEN DIRECTED BY THE ENGINEER)



EXPANSION JOINT DETAIL FOR VERTICAL CURB ABUTTING A RIGID STRUCTURE (11)



PLAN VIEW



SECTION A - A

TIE BARS DRILLED INTO EXISTING PAVEMENT

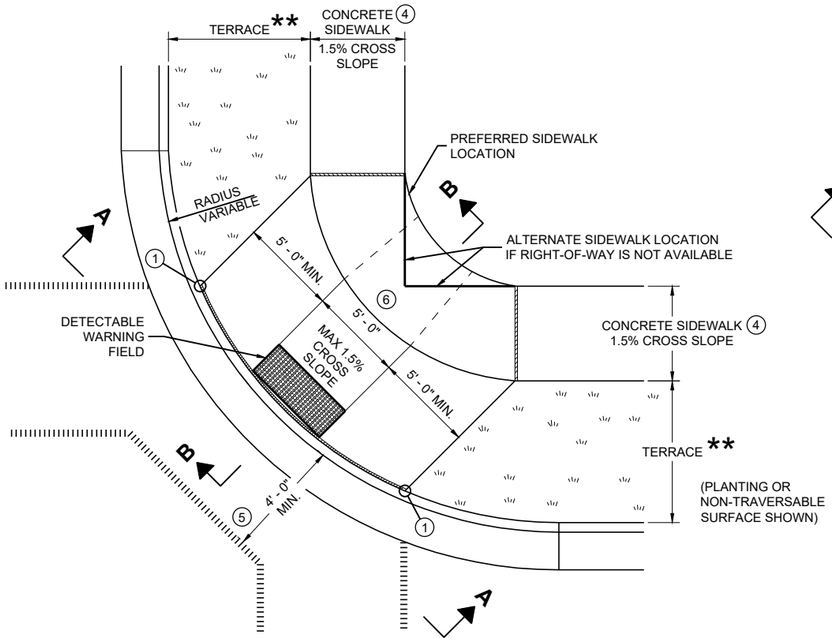
CONCRETE CURB, TIES AND CURB AND GUTTER APPLICATIONS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2023 — DATE
/S/ Rodnery Taylor — ROADWAY STANDARDS DEVELOPMENT UNIT SUPERVISOR

FHWA

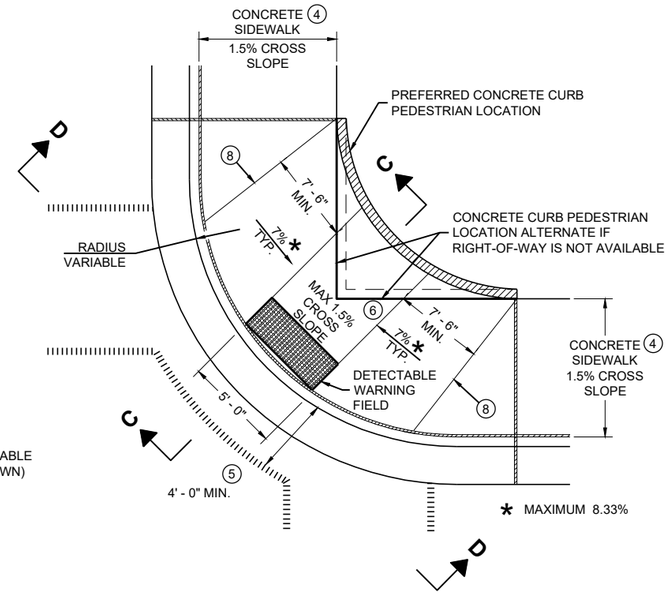
6
SDD 08D01-23b



PLAN VIEW

CURB RAMP TYPE 1

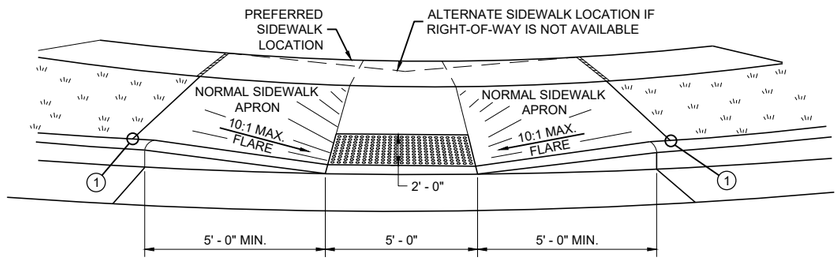
(CENTER OF CORNER RADIUS)



PLAN VIEW

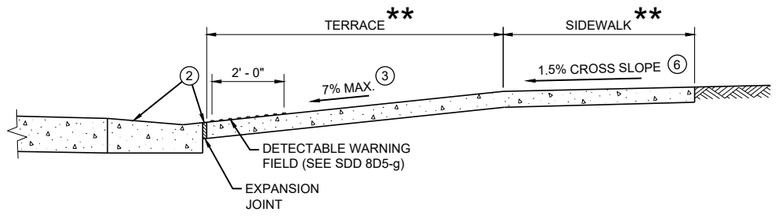
CURB RAMP TYPE 1 - A

(NO TERRACE)

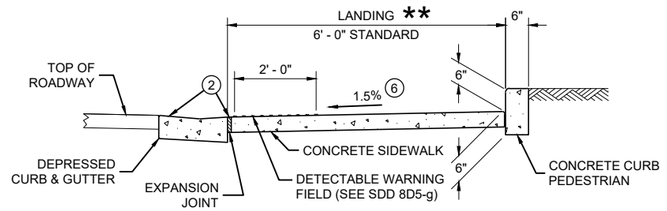


VIEW A - A FOR TYPE 1

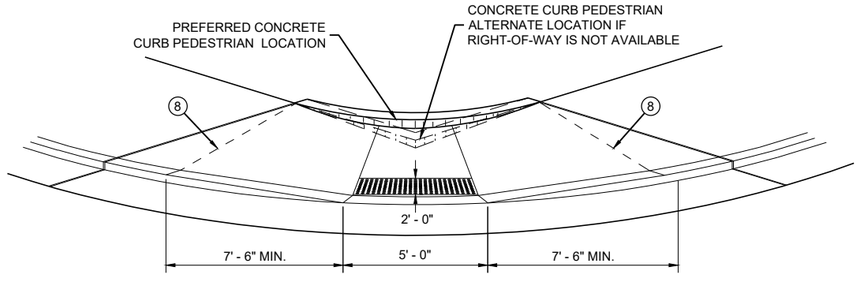
** WIDTH SHOWN ELSEWHERE IN THE PLANS



SECTION B - B FOR TYPE 1



SECTION C - C FOR TYPE 1 - A



VIEW D - D FOR TYPE 1 - A

GENERAL NOTES

AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF RAMP ACCESS AREAS.

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.

WHEN NECESSARY, THE SIDEWALK ELEVATION MAY BE LOWERED TO MEET THE HIGH POINT ON THE RAMP.

TYPE 1 CURB RAMPS SHALL HAVE A NORMAL SIDEWALK APRON AND CURB ON BOTH SIDES OF RAMP.

DETECTABLE WARNING FILED SHALL BE MEASURED AND PAID BY THE SQUARE FOOT AS "CURB RAMP DETECTABLE WARNING FIELD". THE CONCRETE PEDESTRIAN CURB, IF NEEDED, SHALL BE MEASURED AND PAID BY THE LINEAR FOOT AS "CONCRETE CURB PEDESTRIAN". CONCRETE SIDEWALK IN THE CURB RAMP AREA SHALL BE MEASURED AND PAID BY THE SQUARE FOOT AS CONCRETE SIDEWALK, INCLUDING THE AREA UNDER THE DETECTABLE WARNING FIELD.

SELECT CURB RAMP DETECTABLE WARNING FIELD MATERIALS AND DEVICES FROM THE DEPARTMENT'S APPROVED MATERIALS LIST. THE COLOR OF THE DETECTABLE WARNING FIELD IS SPECIFIED ELSEWHERE AND IS INCIDENTAL TO THE BID ITEM OF "CURB RAMP DETECTABLE WARNING FIELD"

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER.

SURFACE TEXTURE OF THE RAMP SHALL BE OBTAINED BY COARSE BROOMING TRANSVERSE TO THE SLOPE OF THE RAMP.

(1) THIS POINT IS AN EXTENSION OF OUTSIDE EDGE OF APPROACHING SIDEWALK WHERE IT MEETS THE BACK OF CONCRETE CURB. POINT LOCATION MAY BE ADJUSTED TO ALIGN WITH BEGINNING OF FULL-HEIGHT CURB IF THIS DISTANCE IS SHORT.

(2) GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. MAXIMUM GUTTER FLAG SLOPE IS 4%. PROVIDE LONGITUDINAL DRAINAGE AROUND CURB AND AWAY FROM CURB RAMP. NO VERTICAL LIPS OR DISCONTINUITIES GREATER THAN ¼ - INCH ARE ALLOWED. SLOPE OF CURB HEAD OPENING SHALL MATCH THE RAMP SLOPE, MINIMALLY 1.5% AND NOT TO EXCEED 7%. WHEN ADJACENT TO 1.5% LANDING, CONSTRUCT CURB HEAD OPENING AT 1.5% IN THE DIRECTION OF PEDESTRIAN TRAVEL.

(3) MAXIMUM 8.33% CURB RAMP SLOPE IS ALLOWABLE WITH FLATTENED GUTTER FLAG SLOPE AND NOT TO EXCEED 11% GRADE CHANGE.

(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

(5) PROVIDE A LEVEL LANDING IN THE STREET AND GUTTER AREA (2% MAXIMUM SLOPE IN ANY DIRECTION). WHEN THE GUTTER SLOPE EXCEEDS 2%, CONSTRUCT THE LEVEL LANDING IN THE STREET AREA. 4 FOOT WIDTH IS MEASURED FROM THE FLANGE LINE

(6) PROVIDE A LEVEL LANDING (MAXIMUM 2% SLOPE) IN ANY DIRECTION OF PEDESTRIAN TRAVEL. STANDARD LEVEL LANDING SIZE IS 5 FEET BY 5 FEET.

(8) PROVIDE GRADE BREAK PERPENDICULAR TO DIRECTION OF WHEELCHAIR TRAVEL.

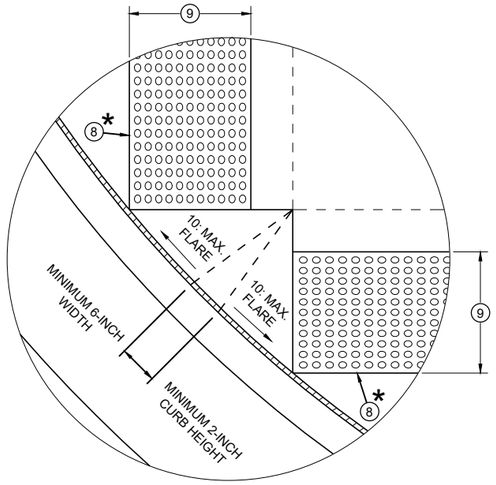
LEGEND

- ½" EXPANSION JOINT SIDEWALK
- CONTRACTION JOINT FIELD LOCATED
- PAVEMENT MARKING CROSSWALK (WHITE)

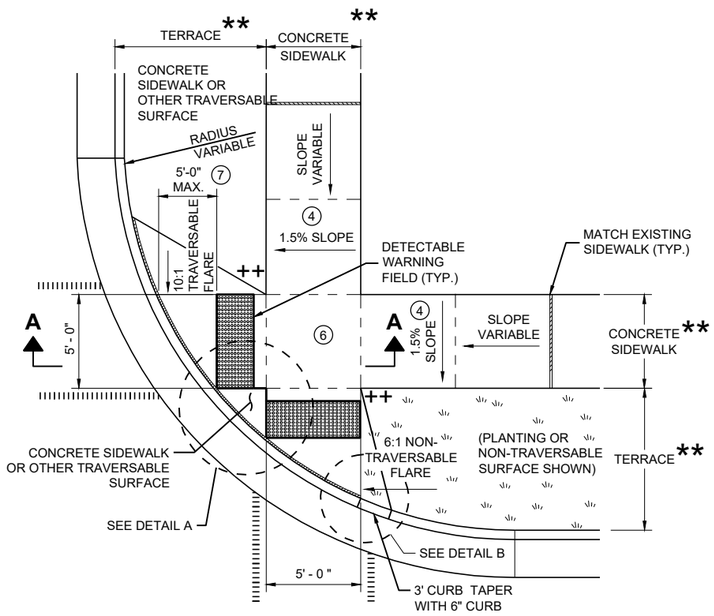
CURB RAMPS TYPE 1 AND 1-A

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

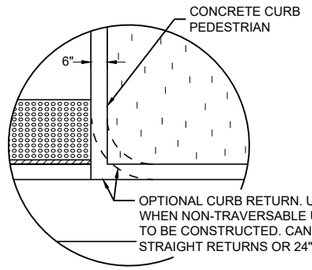
6
SDD 08D05-21a



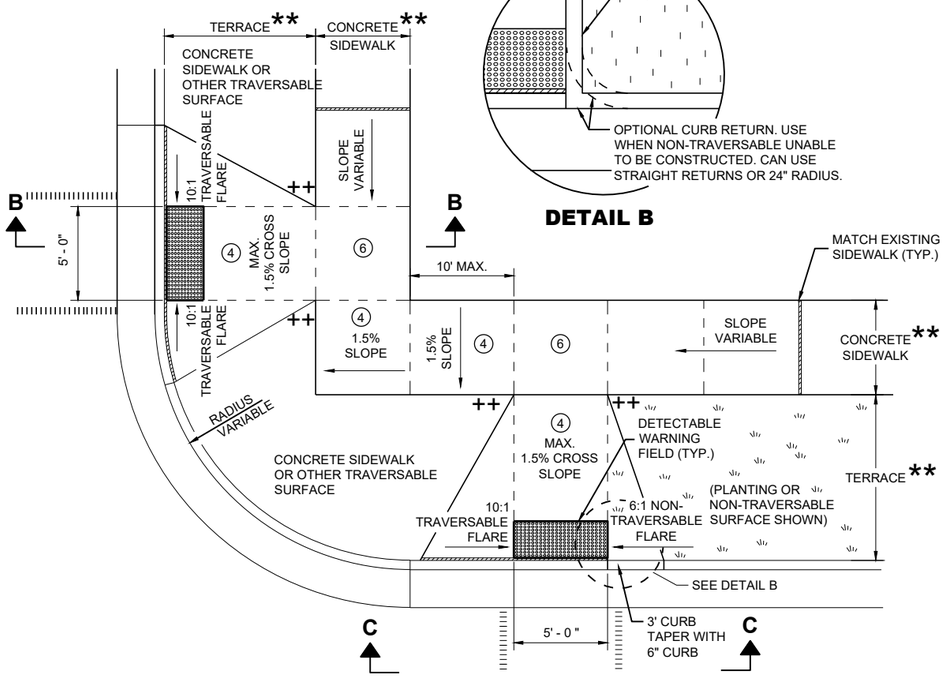
DETAIL A



PLAN VIEW
CURB RAMP TYPE 2
(CENTER OF CORNER RADIUS)



DETAIL B



PLAN VIEW
CURB RAMP TYPE 3
(OUTSIDE OF CROSSWALK AREA)

GENERAL NOTES

AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF RAMP ACCESS AREAS.

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.

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE SHALL BE FROM THE SAME MANUFACTURER.

(2) GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. MAXIMUM GUTTER FLAG SLOPE IS 4%. PROVIDE LONGITUDINAL DRAINAGE AROUND CURB AND AWAY FROM CURB RAMP. NO VERTICAL LIPS OR DISCONTINUITIES GREATER THAN ¼ - INCH ARE ALLOWED. SLOPE OF CURB HEAD OPENING SHALL MATCH THE RAMP SLOPE, MINIMALLY 1.5% AND NOT TO EXCEED 7%. WHEN ADJACENT TO 1.5% LANDING, CONSTRUCT CURB HEAD OPENING AT 1.5% IN THE DIRECTION OF PEDESTRIAN TRAVEL.

(3) AN 8.33% CURB RAMP SLOPE IS ALLOWABLE WITH FLATTENED GUTTER FLAG SLOPE (2.67% OR LESS) AND NOT TO EXCEED 11% GRADE CHANGE.

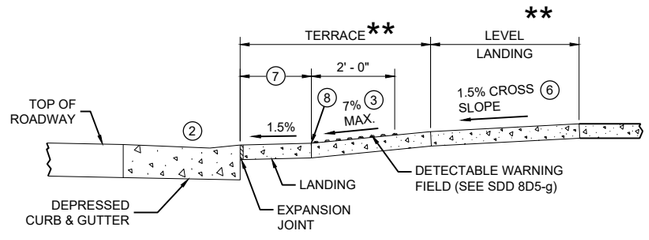
(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

(6) PROVIDE A LEVEL LANDING (MAXIMUM 2% SLOPE) IN ANY DIRECTION OF PEDESTRIAN TRAVEL. STANDARD LEVEL LANDING SIZE IS 5 FEET X 5 FEET.

(7) WHEN GRADE BREAK DISTANCE EXCEEDS 5 FEET, USE RADIAL DETECTABLE WARNING FIELD PER SDD 8D5-f.

(8) PROVIDE GRADE BREAK PERPENDICULAR TO DIRECTION OF WHEELCHAIR TRAVEL.

(9) WHEN DISTANCE IS LESS THAN 6' - 0", IT MAY BE DIFFICULT TO ACHIEVE A 7% SLOPE OR FLATTER ALONG THE RAMP. REDUCE CURB HEIGHT IN TRIANGLE AREA TO ACHIEVE 7% SLOPE OR FLATTER ON RAMP. CONSTRUCT 2-INCH MINIMUM CURB HEIGHT BETWEEN 10:1 FLARES.

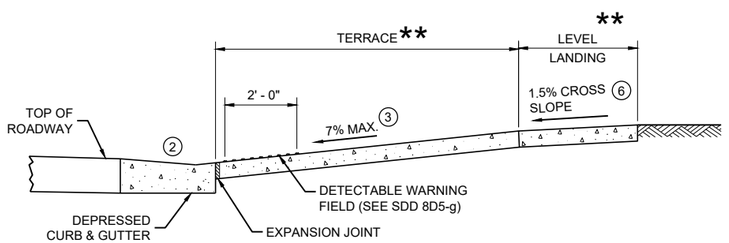


SECTION A - A FOR TYPE 2

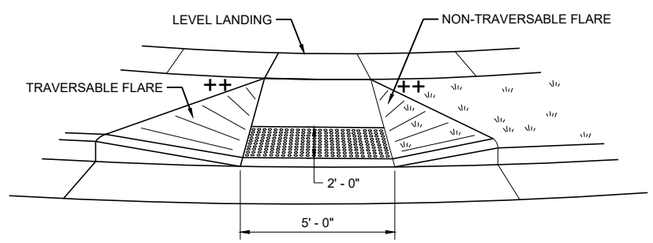
* MAXIMUM 2.0% SLOPE IN ALL DIRECTIONS IN FRONT OF GRADE BREAK

** WIDTH SHOWN ELSEWHERE IN THE PLANS

++ CONSTRUCT 6" WEDGE TO AVOID CONCRETE BREAKAGE



SECTION B - B FOR TYPE 3



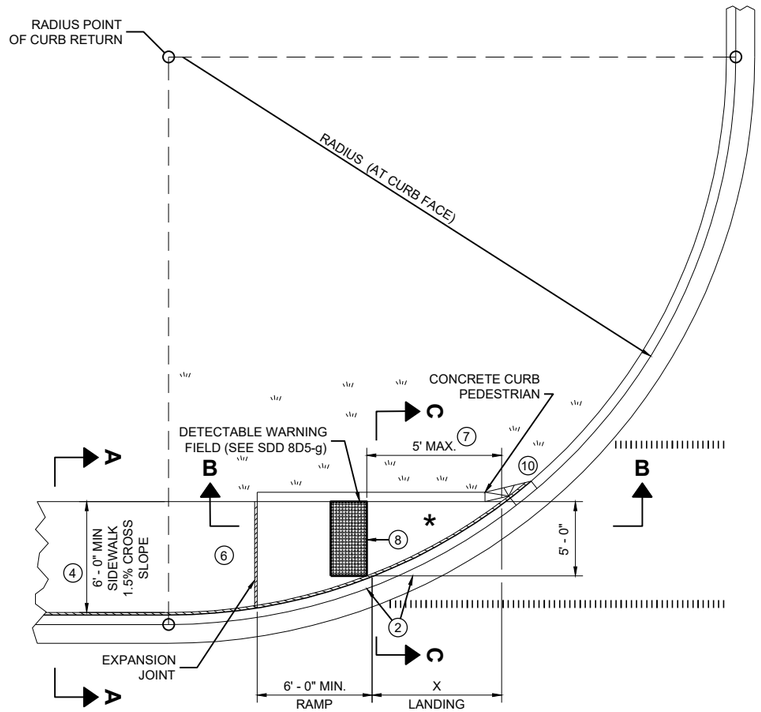
VIEW C - C FOR TYPE 3

LEGEND

- ½" EXPANSION JOINT SIDEWALK
- CONTRACTION JOINT SIDEWALK
- PAVEMENT MARKING CROSSWALK (WHITE)

CURB RAMPS TYPE 2 AND 3

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

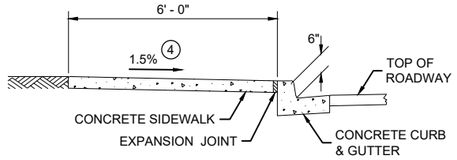


PLAN VIEW

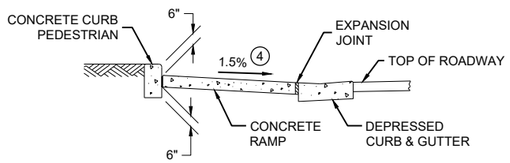
CURB RAMP TYPE 4A

RADIUS (AT CURB FACE)	X
10 FEET	4' - 7"

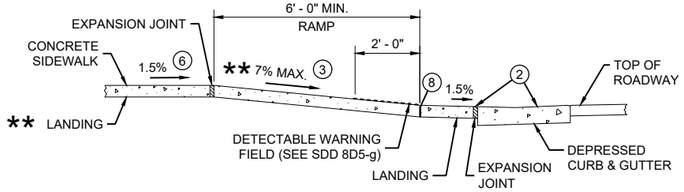
INTERMEDIATE RADII CAN BE INTERPOLATED



SECTION A - A FOR TYPE 4A



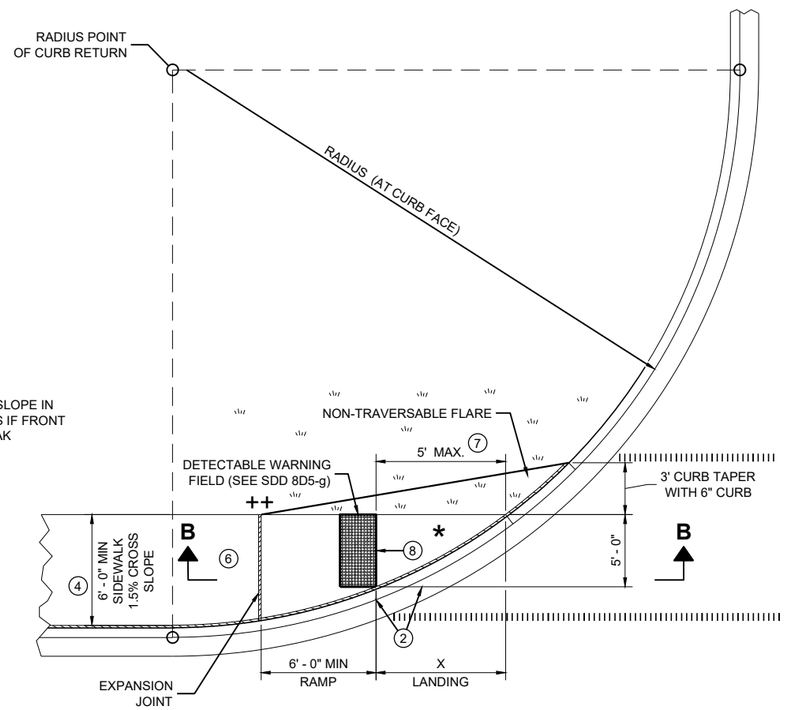
SECTION C - C FOR TYPE 4A



SECTION B - B FOR TYPE 4A AND TYPE 4A1

** IF RAMP SLOPE IS LESS THAN 5.0%, THEN NO ADJACENT UPHILL LANDING IS REQUIRED

* MAXIMUM 2.0% SLOPE IN ALL DIRECTIONS IF FRONT OF GRADE BREAK



PLAN VIEW

CURB RAMP TYPE 4A1

++ CONSTRUCT 6" WEDGE TO AVOID CONCRETE BREAKAGE

GENERAL NOTES

AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF RAMP ACCESS AREAS.

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.

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER.

(2) GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. MAXIMUM GUTTER FLAG SLOPE IS 4%. PROVIDE LONGITUDINAL DRAINAGE AROUND CURB AND AWAY FROM CURB RAMP. NO VERTICAL LIPS OR DISCONTINUITIES GREATER THAN ¼ - INCH ARE ALLOWED. SLOPE OF CURB HEAD OPENING SHALL MATCH THE RAMP SLOPE, MINIMALLY 1.5% AND NOT TO EXCEED 7%. WHEN ADJACENT TO 1.5% LANDING, CONSTRUCT CURB HEAD OPENING AT 1.5% IN THE DIRECTION OF PEDESTRIAN TRAVEL.

(3) AN 8.33% CURB RAMP SLOPE IS ALLOWABLE WITH FLATTENED GUTTER FLAG SLOPE AND NOT TO EXCEED 11% GRADE CHANGE.

(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

(6) PROVIDE A LEVEL LANDING (MAXIMUM 2% SLOPE) IN ANY DIRECTION OF PEDESTRIAN TRAVEL. STANDARD LEVEL LANDING SIZE IS 5 FEET BY 5 FEET.

(7) WHEN THIS GRADE BREAK DISTANCE EXCEEDS 5 FEET, USE RADIAL DETECTABLE WARNING FIELD PER SDD 8D5-f.

(8) PROVIDE GRADE BREAK PERPENDICULAR TO DIRECTION OF WHEELCHAIR TRAVEL.

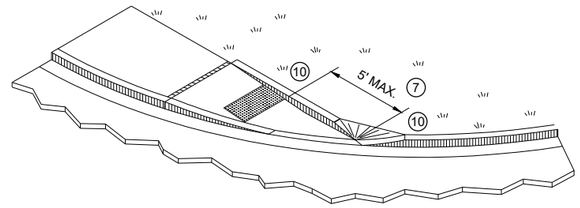
(10) INSTALL TRANSITION NOSE (INCIDENTAL TO OTHER PAY ITEMS). DO NOT MARK TRANSITION NOSE.

LEGEND

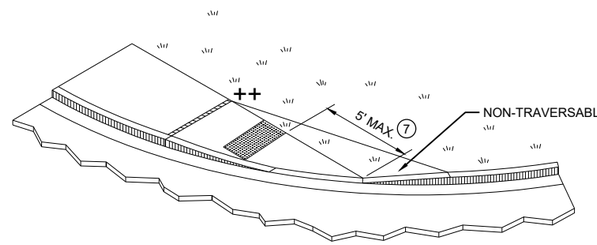
½" EXPANSION JOINT SIDEWALK

CONTRACTION JOINT SIDEWALK

PAVEMENT MARKING CROSSWALK (WHITE)



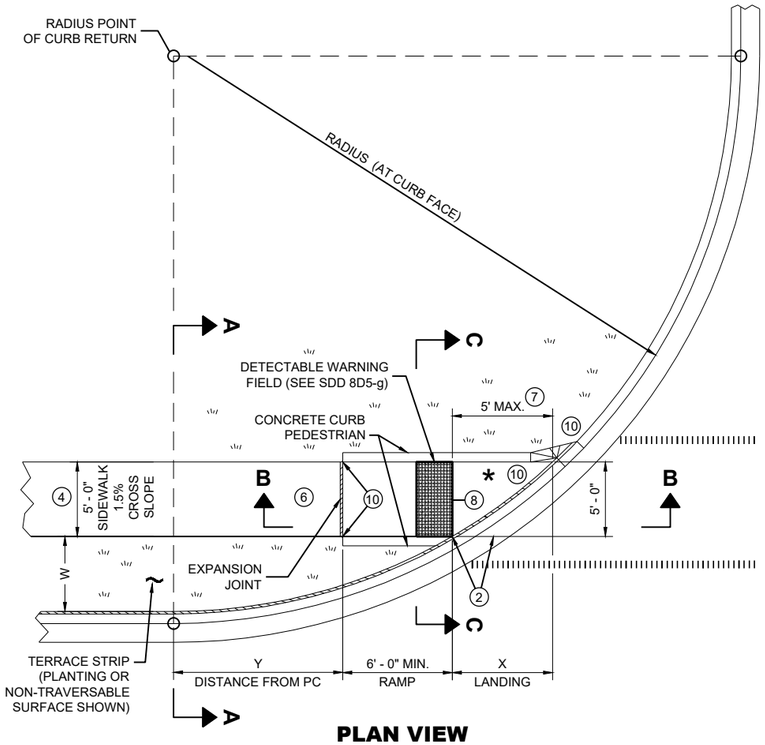
ISOMETRIC VIEW FOR TYPE 4A



ISOMETRIC VIEW FOR TYPE 4A1

CURB RAMPS
TYPE 4A AND 4A1

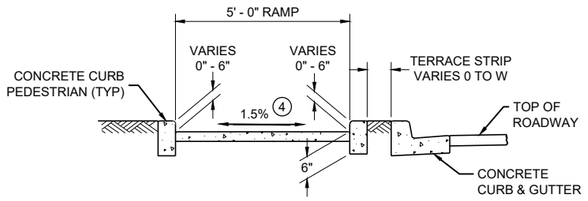
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION



PLAN VIEW
CURB RAMP TYPE 4B

RADIUS (AT CURB FACE)	W = 3' - 0"		W = 4' - 0"		W = 5' - 0"		W = 6' - 0"		W = 7' - 0"		W = 8' - 0"		W = 9' - 0"		W = 10' - 0"	
	X	Y	X	Y	X	Y	X	Y	X	Y	X	Y	X	Y	X	Y
10 FEET	2' - 10 ¼"	0' - 5"	2' - 1"	1' - 4 ½"	1' - 5"	2' - 1"	0' - 10"	2' - 7 ½"	0' - 3 ¼"	3' - 0 ¼"						
15 FEET	4' - 6 ¾"	2' - 1 ¾"	3' - 9"	3' - 5 ¾"	3' - 1 ¼"	4' - 6"	2' - 6 ¾"	5' - 4 ½"	2' - 1"	6' - 1"	1' - 8"	6' - 8 ½"	1' - 3 ¼"	7' - 2 ½"	0' - 10 ¾"	7' - 7 ¼"
20 FEET			4' - 11 ½"	5' - 1 ¾"	4' - 3 ¼"	6' - 5 ½"	3' - 8 ¾"	7' - 7"	3' - 3"	8' - 6 ½"	2' - 10"	9' - 4 ½"	2' - 5 ½"	10' - 1 ¼"	2' - 1 ¼"	10' - 9"
30 FEET									4' - 10 ¾"	12' - 5 ¾"	4' - 5 ½"	13' - 7 ¾"	4' - 0 ¾"	14' - 8 ½"	3' - 8 ½"	15' - 8 ¼"
40 FEET															4' - 10 ¾"	19' - 8 ¼"

INTERMEDIATE RADII CAN BE INTERPOLATED
DIMENSION "Y" IS CALCULATED BASED ON 6'-0" RAMP LENGTH
DIMENSION "X" IS CALCULATED BASED ON 5'-0" SIDEWALK WIDTH



SECTION C - C FOR TYPE 4B

LEGEND

- ½" EXPANSION JOINT SIDEWALK
- CONTRACTION JOINT SIDEWALK
- PAVEMENT MARKING CROSSWALK (WHITE)

GENERAL NOTES

AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF RAMP ACCESS AREAS.

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.

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER.

(2) GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. MAXIMUM GUTTER FLAG SLOPE IS 4%. PROVIDE LONGITUDINAL DRAINAGE AROUND CURB AND AWAY FROM CURB RAMP. NO VERTICAL LIPS OR DISCONTINUITIES GREATER THAN ¼ - INCH ARE ALLOWED. SLOPE OF CURB HEAD OPENING SHALL MATCH THE RAMP SLOPE, MINIMALLY 1.5% AND NOT TO EXCEED 7%. WHEN ADJACENT TO 1.5% LANDING, CONSTRUCT CURB HEAD OPENING AT 1.5% IN THE DIRECTION OF PEDESTRIAN TRAVEL.

(3) AN 8.33% CURB RAMP SLOPE IS ALLOWABLE WITH FLATTENED GUTTER FLAG SLOPE AND NOT TO EXCEED 11% GRADE CHANGE.

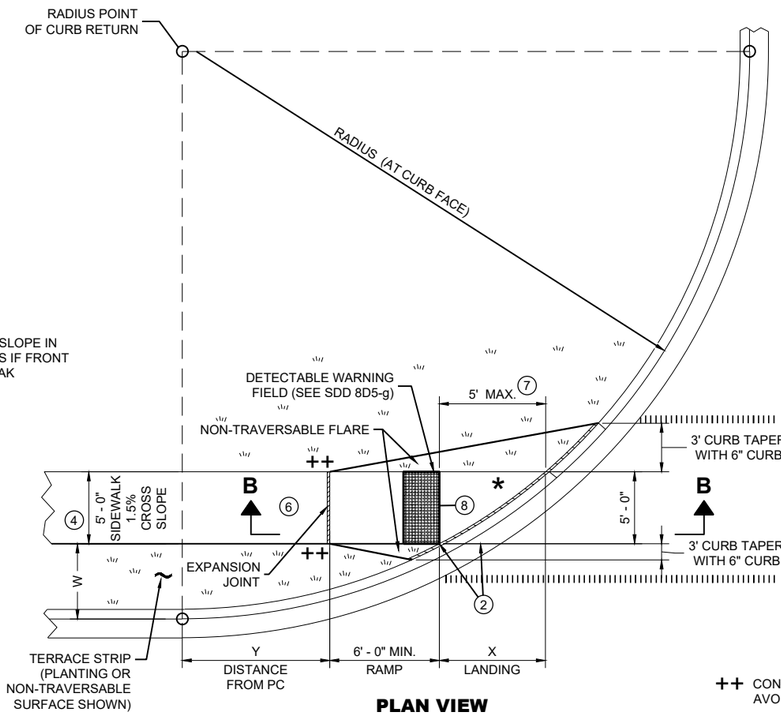
(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

(6) PROVIDE A LEVEL LANDING (MAXIMUM 2% SLOPE) IN ANY DIRECTION OF PEDESTRIAN TRAVEL. STANDARD LEVEL LANDING SIZE IS 5 FEET BY 5 FEET.

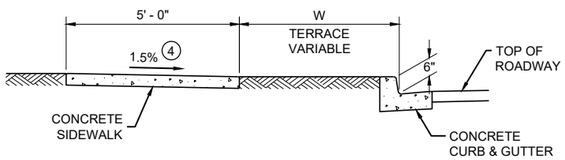
(7) WHEN THIS GRADE BREAK DISTANCE EXCEEDS 5 FEET, USE RADIAL DETECTABLE WARNING FIELD PER SDD 8D5-f.

(8) PROVIDE GRADE BREAK PERPENDICULAR TO DIRECTION OF WHEELCHAIR TRAVEL.

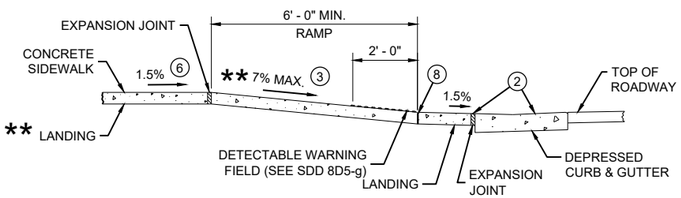
(10) INSTALL TRANSITION NOSE (INCIDENTAL TO OTHER PAY ITEMS). DO NOT MARK TRANSITION NOSE.



PLAN VIEW
CURB RAMP TYPE 4B1



SECTION A - A FOR TYPE 4B

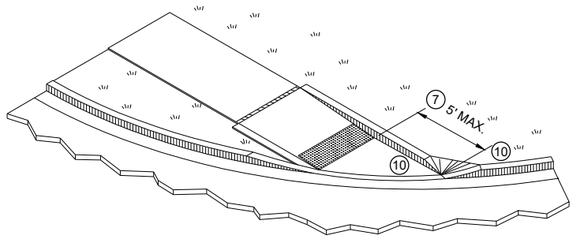


SECTION B - B FOR TYPE 4B AND TYPE 4B1

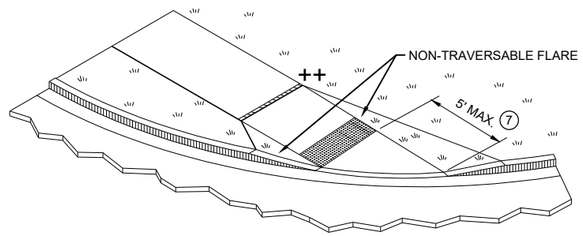
* MAXIMUM 2.0% SLOPE IN ALL DIRECTIONS IF FRONT OF GRADE BREAK

** IF RAMP SLOPE IS LESS THAN 5.0%, THEN NO ADJACENT UPHILL LANDING IS REQUIRED

++ CONSTRUCT 6" WEDGE TO AVOID CONCRETE BREAKAGE



ISOMETRIC VIEW FOR TYPE 4B

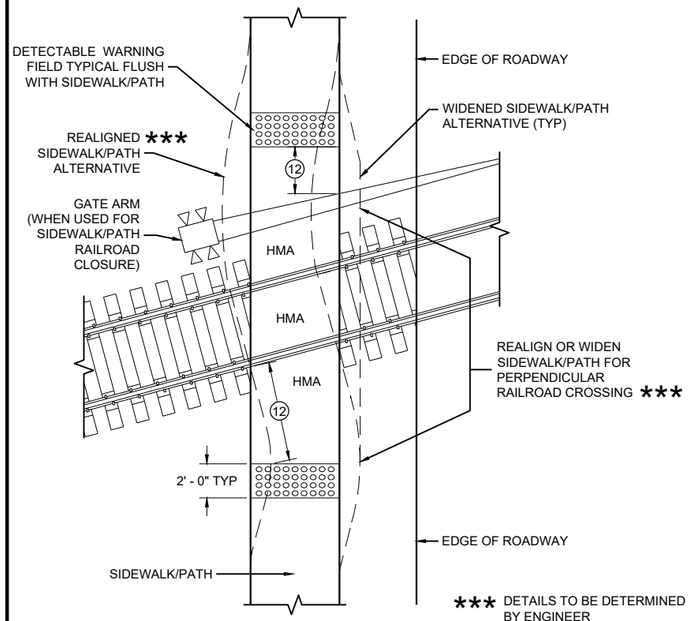


ISOMETRIC VIEW FOR TYPE 4B1

CURB RAMPS
TYPE 4B AND 4B1

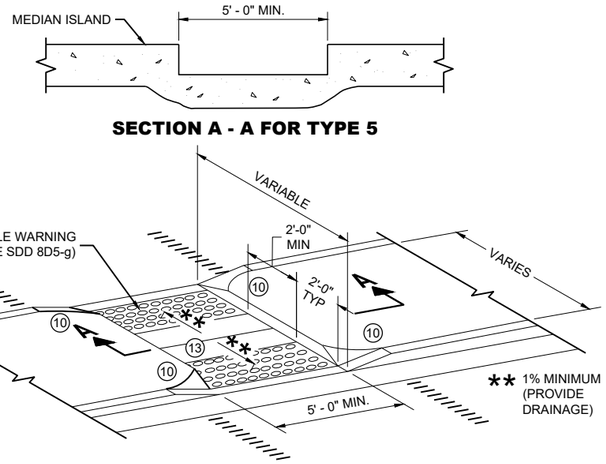
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

SDD 08D05-21d



CURB RAMP TYPE 8

DETECTABLE WARNINGS FOR SIDEWALKS OR SHARED USE PATHS AT RAILROAD CROSSINGS



SECTION A - A FOR TYPE 5

CURB RAMP TYPE 5

MEDIAN ISLAND NON-ELEVATED PEDESTRIAN CROSSING

GENERAL NOTES

AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF RAMP ACCESS AREAS.

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.

SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2%.

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER.

(2) GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. MAXIMUM GUTTER FLAG SLOPE IS 4%. PROVIDE LONGITUDINAL DRAINAGE AROUND CURB AND AWAY FROM CURB RAMP. NO VERTICAL LIPS OR DISCONTINUITIES GREATER THAN ¼ - INCH ARE ALLOWED. SLOPE OF CURB HEAD OPENING SHALL MATCH THE RAMP SLOPE, MINIMALLY 1.5% AND NOT TO EXCEED 7%. WHEN ADJACENT TO 1.5% LANDING, CONSTRUCT CURB HEAD OPENING AT 1.5% IN THE DIRECTION OF PEDESTRIAN TRAVEL.

(3) AN 8.33% CURB RAMP SLOPE IS ALLOWABLE WITH FLATTENED GUTTER FLAG SLOPE AND NOT TO EXCEED 11% GRADE CHANGE.

(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

(6) PROVIDE A LEVEL LANDING (MAXIMUM 2% SLOPE) IN ANY DIRECTION OF PEDESTRIAN TRAVEL. STANDARD LEVEL LANDING SIZE IS 5 FEET BY 5 FEET.

(10) INSTALL TRANSITION NOSE (INCIDENTAL TO OTHER PAY ITEMS). DO NOT MARK TRANSITION NOSE.

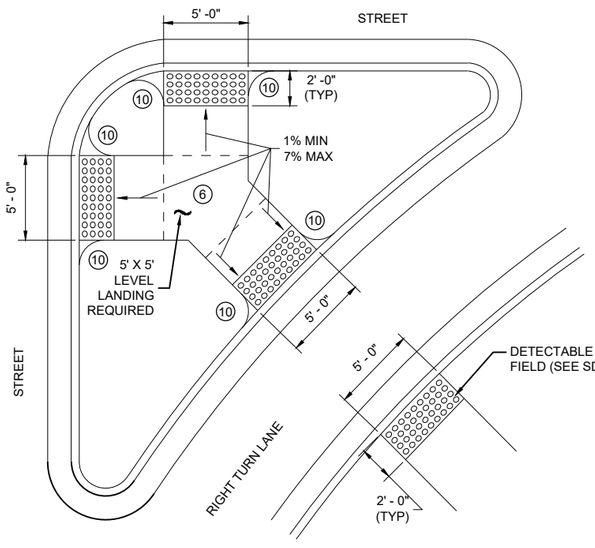
(11) SLOPE SIDEWALK TOWARD LANDING AS SHOWN WHERE THERE IS NO TERRACE OR WHERE THE TERRACE WIDTH IS LESS THAN 6 FEET WIDE.

(12) THE EDGE OF THE DETECTABLE WARNING FIELD NEAREST TO A RAILROAD CROSSING SHALL BE 1.5 FEET ±0.1' FROM THE FACE OF THE GATE ARM IF THE GATE ARM EXTENDS ACROSS THE SIDEWALK/PATH. WHERE THERE IS NO PEDESTRIAN GATE, THE EDGE OF THE DETECTABLE WARNING FIELD NEAREST TO THE RAILROAD TRACK IS 15 FEET MAXIMUM AND 12 FEET MINIMUM, 15 FEET TYPICAL FROM THE NEAREST RAIL.

(13) DO NOT INSTALL DETECTABLE WARNING FIELDS AT THE EDGES OF STEET-LEVEL PEDESTRIAN REFUGE ISLANDS IF A MINIMUM 2 FOOT CONCRETE SURFACE WITHOUT DETECTABLE WARNINGS (MEASURED IN THE DIRECTION OF PEDESTRIAN TRAVEL) CANNOT BE ACHIEVED.

LEGEND

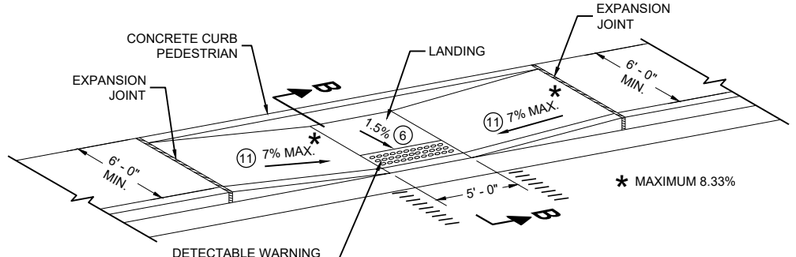
- ½" EXPANSION JOINT SIDEWALK
- CONTRACTION JOINT FIELD LOCATED
- PAVEMENT MARKING CROSSWALK (WHITE)



CURB RAMP TYPE 6

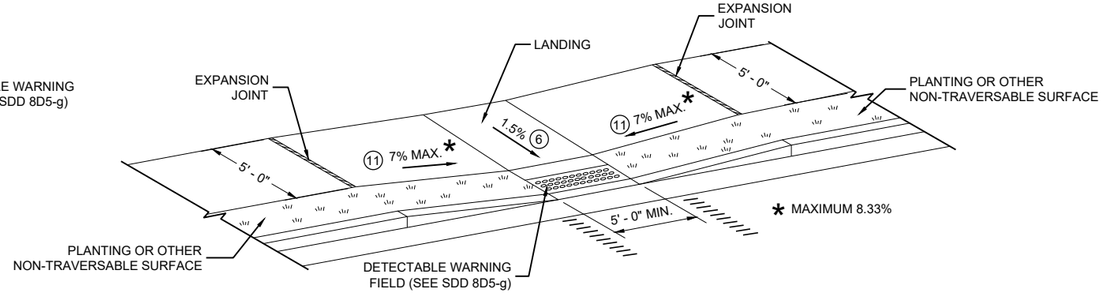
DETECTABLE WARNING AT ISLANDS

REFER TO GENERAL NOTES (2) AND (3) FOR ALL ISLAND CURB RAMPS



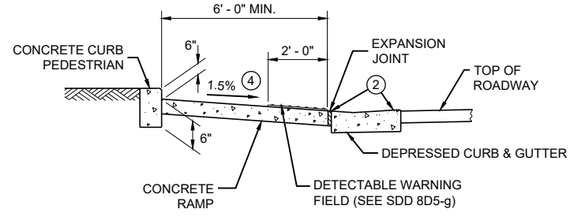
CURB RAMP TYPE 7A

FOR INTERSECTIONS AND MID BLOCK CROSSINGS



CURB RAMP TYPE 7B

FOR INTERSECTIONS AND MID BLOCK CROSSINGS

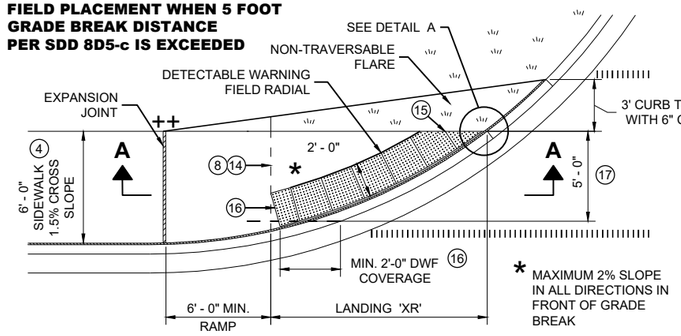


SECTION B - B FOR TYPE 7A

CURB RAMPS TYPE 5, 6, 7A, 7B & 8

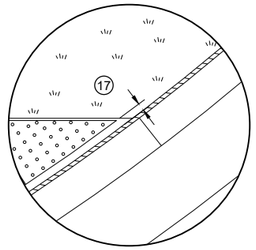
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

RADIAL DETECTABLE WARNING FIELD PLACEMENT WHEN 5 FOOT GRADE BREAK DISTANCE PER SDD 8D5-c IS EXCEEDED

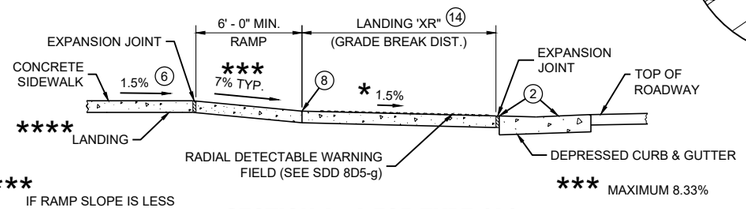


PLAN VIEW

CURB RAMP TYPE 4A1
(GRADE BREAK DISTANCE GREATER THAN 5 FEET)



DETAIL A



**** IF RAMP SLOPE IS LESS THAN 5.0%, THEN NO ADJACENT UPHILL LANDING IS REQUIRED

*** MAXIMUM 8.33%

SECTION A - A FOR TYPE 4A1

LEGEND

- ½" EXPANSION JOINT SIDEWALK
- CONTRACTION JOINT SIDEWALK
- PAVEMENT MARKING CROSSWALK (WHITE)

GENERAL NOTES

AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF RAMP ACCESS AREAS.

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.

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER.

APPLY RADIAL DETECTABLE WARNING PLACEMENT SIMILARLY FOR TYPE 4A AND 4A1 CURB RAMPS AND SIMILARLY FOR TYPE 4B AND 4B1 CURB RAMPS. TYPE 4A AND 4B CURB RAMPS ARE NOT SHOWN.

REFER TO SDD 8D5-g FOR ADDITIONAL RADIAL PLATE REQUIREMENTS.

FIELD CUTS AT INTERMEDIATE JOINTS WITHIN THE RADIAL DETECTABLE WARNING FILED ARE PROHIBITED.

DETERMINE FINAL RADIAL WARNING FIELD CONFIGURATION AD ITS INDIVIDUAL PLATE LOCATIONS. PERFORM PRE-LAYOUT PRIOR TO PLACEMENT IN PLASTIC CONCRETE. FOLLOW MANUFACTURER'S PRODUCT LIST AND INSTALLATION RECOMMENDATIONS.

(2) GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. MAXIMUM GUTTER FLAG SLOPE IS 4%. PROVIDE LONGITUDINAL DRAINAGE AROUND CURB AND AWAY FROM CURB RAMP. NO VERTICAL LIPS OR DISCONTINUITIES GREATER THAN ¼ - INCH ARE ALLOWED. SLOPE OF CURB HEAD OPENING SHALL MATCH THE RAMP SLOPE, MINIMALLY 1.5% AND NOT TO EXCEED 7%. WHEN ADJACENT TO 1.5% LANDING, CONSTRUCT CURB HEAD OPENING AT 1.5% IN THE DIRECTION OF PEDESTRIAN TRAVEL.

(3) AN 8.33% CURB RAMP SLOPE IS ALLOWABLE WITH FLATTENED GUTTER FLAG SLOPE AND NOT TO EXCEED 11% GRADE CHANGE.

(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

(6) PROVIDE A LEVEL LANDING (MAXIMUM 2% SLOPE) IN ANY DIRECTION OF PEDESTRIAN TRAVEL. STANDARD LANDING SIZE IS 5 FEET BY 5 FEET.

(8) PROVIDE GRADE BREAK PERPENDICULAR TO DIRECTION OF WHEELCHAIR TRAVEL.

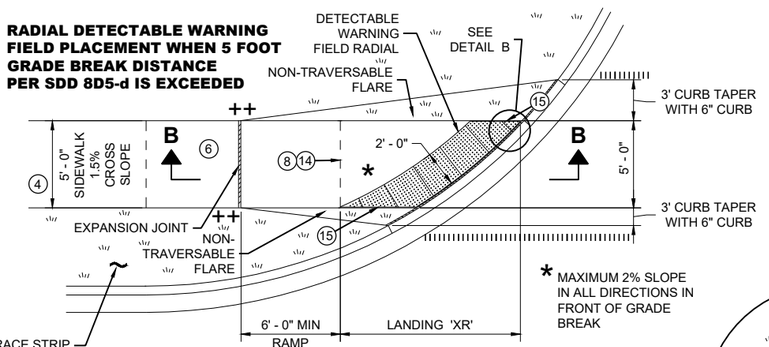
(14) CONSULT ENGINEER IF GRADE BREAK LOCATION (END OF LANDING DIMENSION "XR") REQUIRES FIELD ADJUSTMENT WHEN ESTABLISHING FINAL RADIAL DETECTABLE WARNING FIELD LOCATION.

(15) FIELD SAW CUTS ALONG RADIAL DETECTABLE WARNING PLATES WILL BE NECESSARY TO MATCH EACH CURB RAMP EDGE. AVOID CUTTING THROUGH DOMES WHENEVER POSSIBLE. MAKE FIELD CUTS TRUE TO LINE AND WITHIN ⅛" DEVIATION. SMOOTH EDGES OF FIELD CUT PLATES.

(16) USE 1' X 2" RECTANGULAR END PLATE AT END OF TYPE 4A1 RAMP AND PROVIDE MINIMUM 2' - 0" DETECTABLE WARNING FIELD COVERAGE (IN DIRECTION OF PEDESTRIAN TRAVEL) ALONG THE ENTIRE CURB RAMP WIDTH.

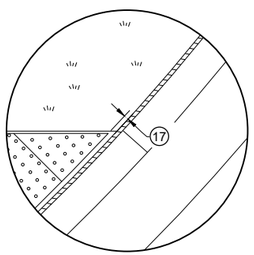
(17) A MAXIMUM 3 INCH CONCRETE BORDER WIDTH IS ALLOWABLE IN FRONT OF RADIAL DETECTABLE WARNING FIELD FOR CONSTRUCTABILITY PURPOSES. CONCRETE BORDER WIDTH MAY VARY UP TO 1 INCH.

RADIAL DETECTABLE WARNING FIELD PLACEMENT WHEN 5 FOOT GRADE BREAK DISTANCE PER SDD 8D5-d IS EXCEEDED

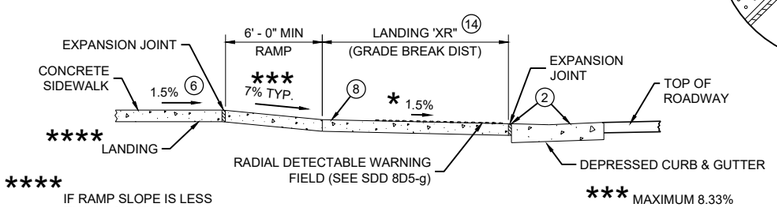


PLAN VIEW

CURB RAMP TYPE 4B1
(GRADE BREAK DISTANCE GREATER THAN 5 FEET)



DETAIL B

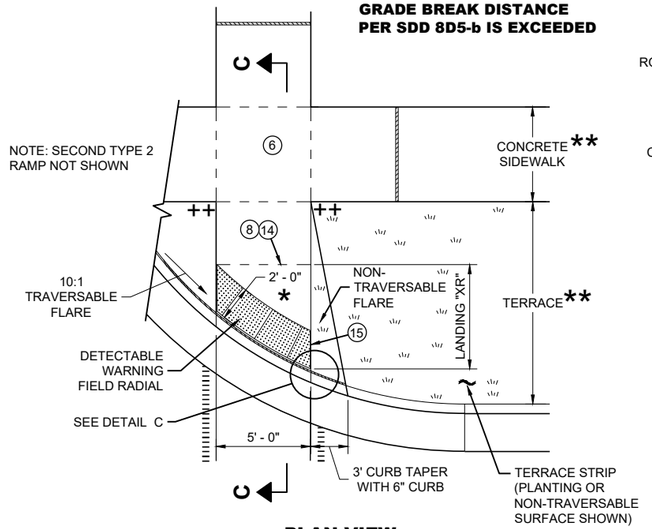


**** IF RAMP SLOPE IS LESS THAN 5.0%, THEN NO ADJACENT UPHILL LANDING IS REQUIRED

*** MAXIMUM 8.33%

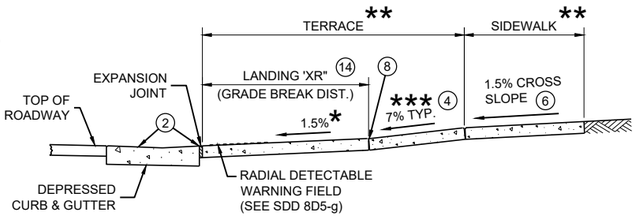
SECTION B - B FOR TYPE 4B1

RADIAL DETECTABLE WARNING FIELD PLACEMENT WHEN 5 FOOT GRADE BREAK DISTANCE PER SDD 8D5-b IS EXCEEDED

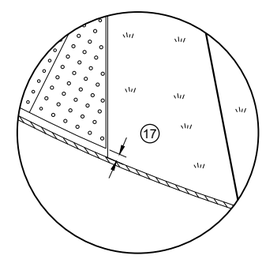


PLAN VIEW

CURB RAMP TYPE 2
(GRADE BREAK DISTANCE GREATER THAN 5 FEET)
(ON LINE WITH SIDEWALK)



SECTION C - C FOR TYPE 2



DETAIL C

* MAXIMUM 2% SLOPE IN ALL DIRECTIONS IN FRONT OF GRADE BREAK

** WIDTH SHOWN ELSEWHERE IN THE PLANS

*** MAXIMUM 8.33%

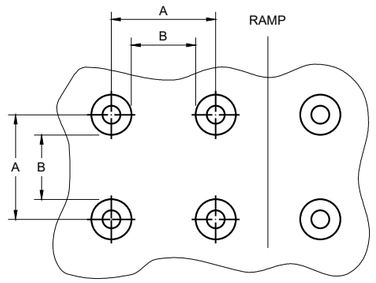
++ CONSTRUCT 6" WEDGE TO AVOID CONCRETE BREAKAGE

CURB RAMPS
RADIAL DETECTABLE WARNING

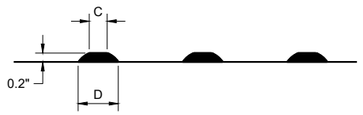
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

	MIN.	MAX.
A	1.6"	2.4"
B	0.65"	1.5"
C	*	*
D	0.9"	1.4"

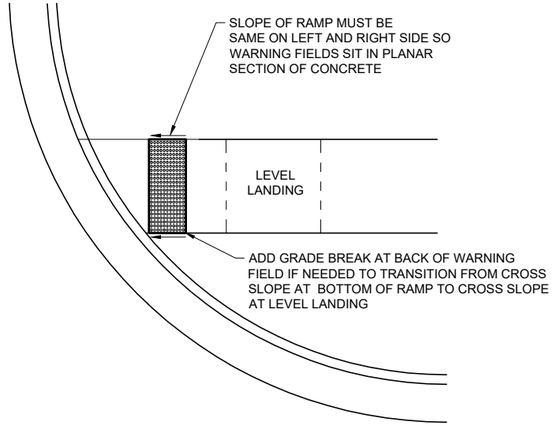
* THE C DIMENSION IS 50% TO 65% OF THE D DIMENSION.



PLAN VIEW



ELEVATION VIEW



DETECTABLE WARNING FIELD
PLANAR INSTALLATION

GENERAL NOTES

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AT A CURB RAMP SHALL BE FROM THE SAME MANUFACTURER.

PLACE ALL DETECTABLE WARNING FIELD SYSTEMS IN ACCORDANCE TO THE MANUFACTURER'S RECOMMENDATION.

FIELD CUTS AT INTERMEDIATE JOINTS WITHIN THE RADIAL DETECTABLE WARNING FILED ARE PROHIBITED.

DETERMINE FINAL RADIAL WARNING FIELD CONFIGURATION AND ITS INDIVIDUAL PLATE LOCATIONS. PERFORM PRE-LAYOUT PRIOR TO PLACEMENT IN PLASTIC CONCRETE. FOLLOW MANUFACTURER'S PRODUCT LIST AND INSTALLATION RECOMMENDATIONS.

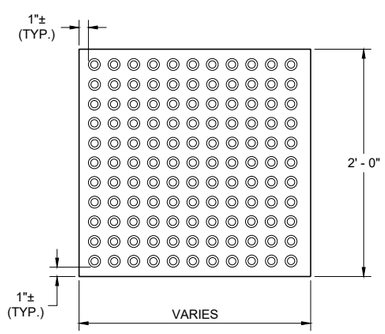
FOR RADIAL DETECTABLE WARNING FIELD APPLICATIONS WHERE STANDARD RADIAL PLATES ARE NOT AVAILABLE AT AN INTERSECTION CURB RADIUS, A COMBINATION OF SQUARE OR RECTANGULAR PLATES AND RADIAL PLATES MAY BE USED TO FORM RADIAL CONFIGURATION. RADIAL WEDGE PLATES IN COMBINATION WITH SQUARE PLATES ARE ALSO ACCEPTABLE. FOLLOW MANUFACTURER'S RECOMMENDATIONS.

REFER TO CONTRACT AND STANDARD SPECIFICATIONS FOR FIELD CUTTING REQUIREMENTS.

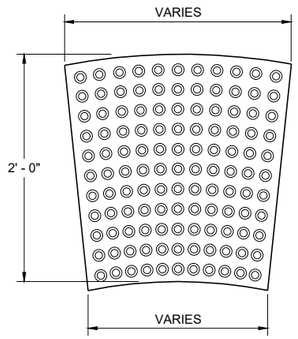
DO NOT EMBED IN CONCRETE ANY FIELD-CUT PLATES WITH CUT EDGES SHORTER THAN 6 INCHES. CONSULT WITH MANUFACTURER FOR RE-DRILLING AND ANCHORING REQUIREMENTS OF FIELD-CUT PLATES.

(15) FIELD SAW CUTS ALONG RADIAL DETECTABLE WARNING PLATES WILL BE NECESSARY TO MATCH EACH CURB RAMP EDGE. AVOID CUTTING THROUGH DOMES WHENEVER POSSIBLE. MAKE FIELD CUTS TRUE TO LINE AND WITHIN ⅛" DEVIATION. SMOOTH EDGES OF FIELD CUT PLATES.

TRUNCATED DOMES
DETECTABLE WARNING PATTERN DETAIL

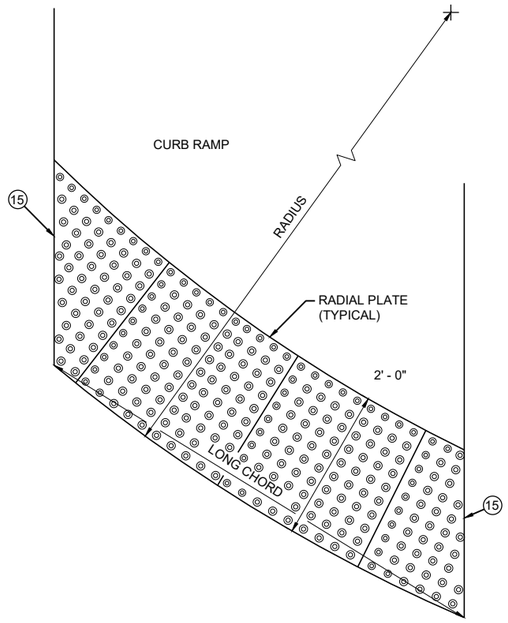


RECTANGULAR PLATES

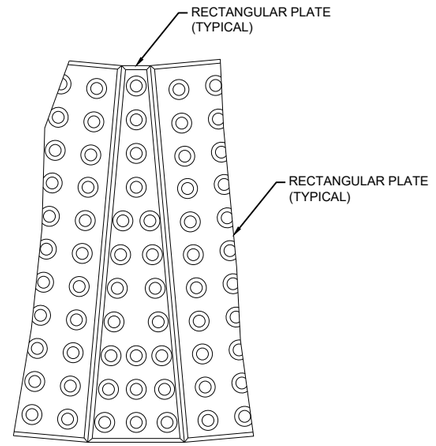


RADIAL PLATES

PLAN VIEW
DETECTABLE WARNING FIELDS (TYPICAL)



PLAN VIEW
RADIAL DETECTABLE WARNING FIELD ATTRIBUTES



PLAN VIEW
RADIAL WEDGE PLATE CONNECTION DETAIL

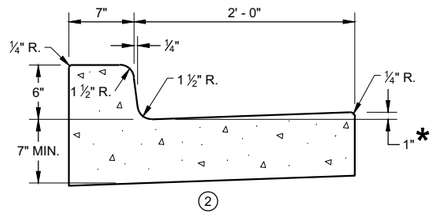
CURB RAMPS
RECTANGULAR AND RADIAL DETECTABLE WARNING PLATES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
July 2023 — DATE
/S/ Rodney Taylor — ROADWAY STANDARDS DEVELOPMENT UNIT SUPERVISOR

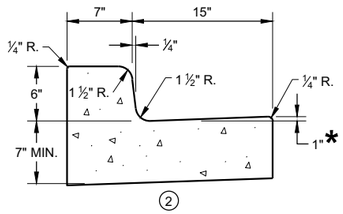
FHWA

6
SDD 08D05-21g

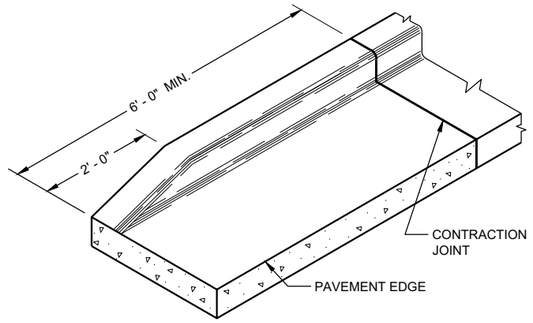


CONCRETE CURB AND GUTTER 31" ①

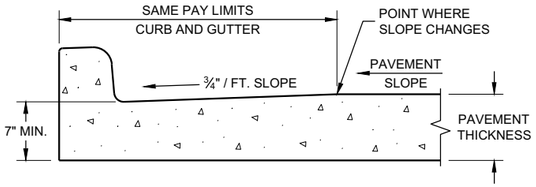
*TO BE MEASURED TO A MAXIMUM OF 3" WHERE DRAINAGE PROBLEMS EXIST.



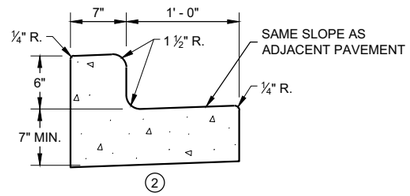
CONCRETE CURB AND GUTTER 22" ①



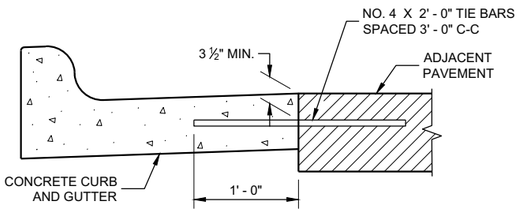
END SECTIONCURB AND GUTTER



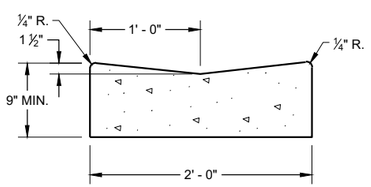
PARTIAL SECTION OF PAVEMENT WITH INTEGRAL CURB AND GUTTER



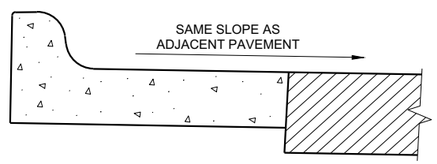
CONCRETE CURB AND GUTTER 19" ①



TYPICAL TIE BAR LOCATION ①



CONCRETE GUTTER 24" ①



HIGH SIDE SECTION ③

(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.

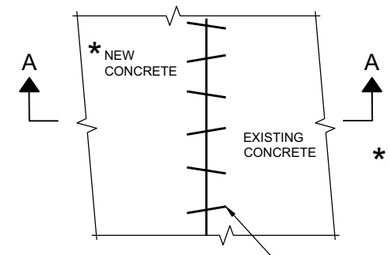
INTEGRAL CURB AND GUTTER SHALL CONFORM TO THE DETAILS SHOWN FOR CONCRETE CURB AND GUTTER INCLUDING THE TRANSVERSE GUTTER SLOPE. A LONGITUDINAL CONSTRUCTION JOINT IS NOT REQUIRED WITH INTEGRAL CURB AND GUTTER.

UNLESS OTHERWISE SHOWN ON THE TYPICAL CROSS SECTIONS, THE BASE COURSE AND UNCLASSIFIED EXCAVATION LIMITS ARE 2' - 0" BEHIND THE BACK OF CURBS.

① WHEN PLACED ADJACENT TO NEW CONCRETE, TIE BARS ARE REQUITED FOR CURB AND GUTTER 31", 22", 19" AND CONCRETE GUTTER 24".

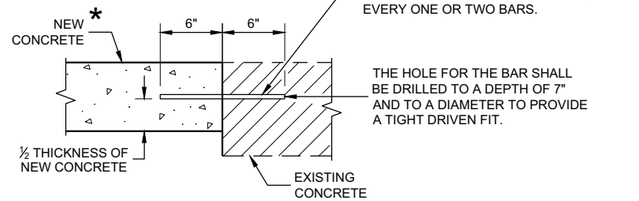
② THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE COURSE PROVIDED A 7" MINIMUM GUTTER THICKNESS IS MAINTAINED.

③ WHEN HIGH SIDE CURB SECTION IS REQUIRED, THE LOCATION(S) WILL BE NOTED ON THE PLANS



*EXISTING AND NEW CONCRETE MAY BE CURB AND GUTTER, SURFACE DRAINS, PAVEMENT OR OTHER CONCRETE STRUCTURE.

PLAN VIEW



SECTION A - A

PAVEMENT TIES

CONCRETE GUTTER, CURB AND GUTTER AND PAVEMENT TIES

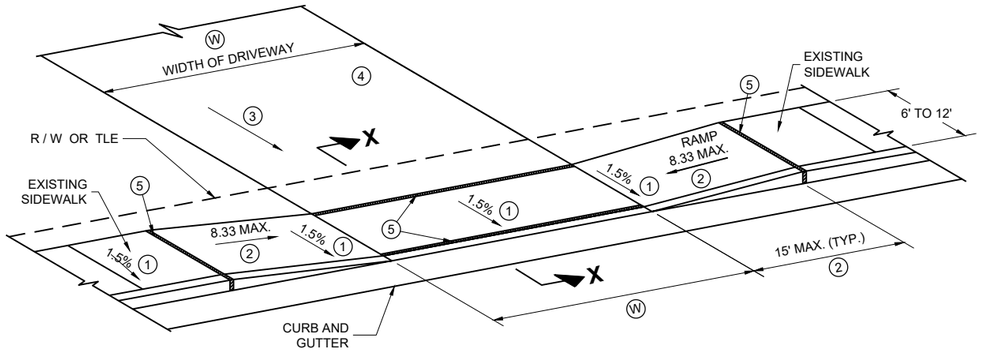
(For Optional use in Milwaukee Co. Only)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

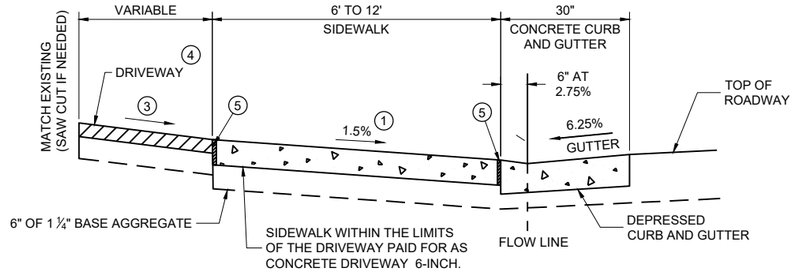
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February 2020 — DATE
/S/ Rodney Taylor — ROADWAY STANDARDS DEVE ENGINEER
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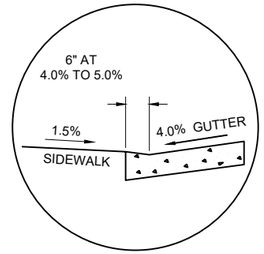
SDD 08D16 - 11



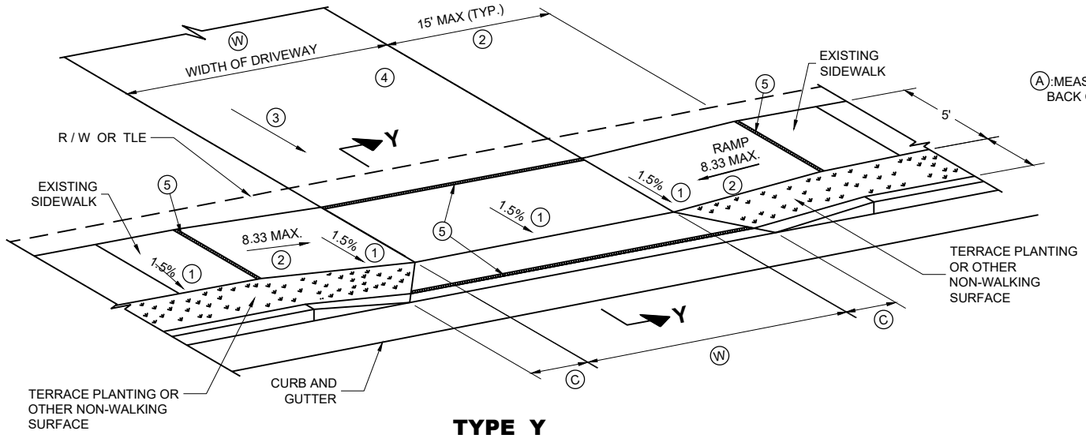
TYPE X
SIDEWALK ABUTS CURB AND GUTTER
TERRACE VARIES 0 TO 3 FEET



SECTION X - X

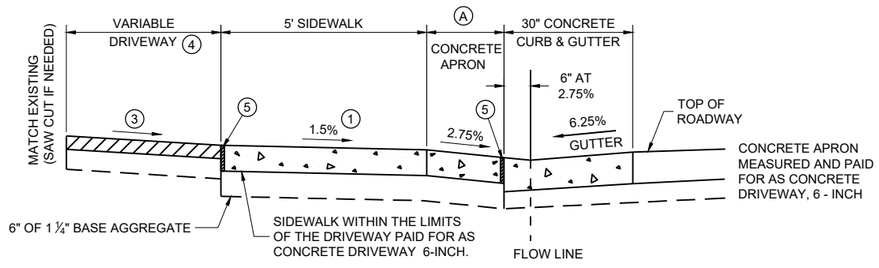


SECTION X - X
4% GUTTER SLOPE



TYPE Y
SIDEWALK WITH NARROWER TERRACE
TERRACE VARIES 4 TO 6 FEET

Ⓐ:MEASURE FROM BACK OF CURB

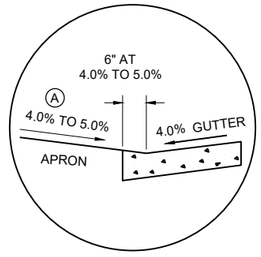


NOTE: SIDEWALK MY BE DEPRESSED IN DRIVEWAY AREAS

SECTION Y - Y

DRIVEWAY DETAIL WITH CONCRETE CURB AND GUTTER

(URBAN AND SUBURBAN)



SECTION Y - Y
4% GUTTER SLOPE

Ⓦ: 12' MIN. - 24' MAX. RESIDENTIAL AND NON-COMMERCIAL (PE & FE)

16' MIN. - 35' MAX. COMMERCIAL (CE)

TABLE Y

Ⓐ FEET	Ⓒ FEET
3.5'	2.0'
4.5'	3.0'
5.5'	3.5'

GENERAL NOTES

PROVIDE CONSTRUCTION JOINTS ALONG THE CENTER OF THE CONCRETE FOR DRIVEWAYS UNDER 20 FEET IN WIDTH AND AT THE THIRD POINTS OVER 20 FEET IN WIDTH.

Ⓦ IS SHOWN ON PLAN AND PROFILE SHEETS.

OFFSETS, ELEVATIONS, AND PERCENT GRADE ARE SHOWN ON THE CROSS SECTIONS.

① CONSTRUCTION TOLERANCE OF 0.5%± FOR SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2%.

② THE SIDEWALK RAMP MAXIMUM RUNNING SLOPE SHALL NOT REQUIRE THE RAMP LENGTH TO EXCEED 15 FEET TO AVOID CHASING THE SLOPE INDEFINITELY WHEN CONNECTING TO STEEP GRADES. WHEN APPLYING THE 15 FOOT MAXIMUM LENGTH, THE RUNNING SLOPE OF THE SIDEWALK SHALL BE AS FLAT AS FEASIBLE AND NOT EXCEED THE LONGITUDINAL GRADE OF THE ROADWAY. SLOPE SIDEWALK RAMP TOWARD APRON AS SHOWN WHERE THERE IS NO TERRACE OR WHERE THE TERRACE WIDTH IS LESS THAN 6 FEET WIDE.

③ DRIVEWAY SLOPES: DESIRABLE MAXIMUM
- 10.5% UP AWAY FROM SIDEWALK (SAG)
- 8.5% DOWN AWAY FROM SIDEWALK (CREST)
- ABSOLUTE MAXIMUM 15% FOR BOTH CREST AND SAG

④ DRIVEWAY TYPES
- 6-INCH CONCRETE DRIVEWAY PAVEMENT OVER 6-INCH BASE AGGREGATE
- 2-INCH TO 3-INCH ASPHALTIC SURFACE OVER 6-INCH BASE AGGREGATE
- 6-INCH BASE AGGREGATE (MAY BE INCREASED FOR CLAY SUBGRADES.)

⑤ ½" EXPANSION JOINT FILLER

DRIVEWAY AND SIDEWALK RAMPS TYPES X AND Y

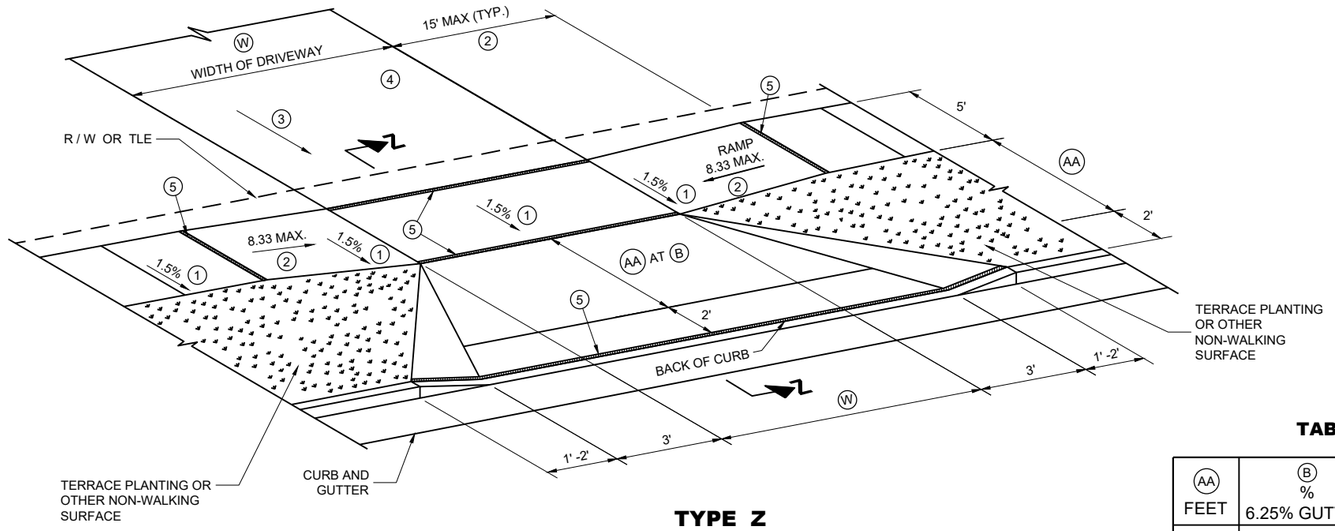
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TYPE Z

SIDEWALK WITH WIDER TERRACE
TERRACE VARIES 7 TO 12 FEET

GENERAL NOTES

PROVIDE CONSTRUCTION JOINTS ALONG THE CENTER OF THE CONCRETE FOR DRIVEWAYS UNDER 20 FEET IN WIDTH AND AT THE THIRD POINTS OVER 20 FEET IN WIDTH.

(W) IS SHOWN ON PLAN AND PROFILE SHEETS.

OFFSETS, ELEVATIONS, AND PERCENT GRADE ARE SHOWN ON THE CROSS SECTIONS.

(1) CONSTRUCTION TOLERANCE OF 0.5%± FOR SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2%.

(2) THE SIDEWALK RAMP MAXIMUM RUNNING SLOPE SHALL NOT REQUIRE THE RAMP LENGTH TO EXCEED 15 FEET TO AVOID CHASING THE SLOPE INDEFINITELY WHEN CONNECTING TO STEEP GRADES. WHEN APPLYING THE 15 FOOT MAXIMUM LENGTH, THE RUNNING SLOPE OF THE SIDEWALK SHALL BE AS FLAT AS FEASIBLE AND NOT EXCEED THE LONGITUDINAL GRADE OF THE ROADWAY.

(3) DRIVEWAY SLOPES: DESIRABLE MAXIMUM
- 10.5% UP AWAY FROM SIDEWALK (SAG)
- 8.5% DOWN AWAY FROM SIDEWALK (CREST)
- ABSOLUTE MAXIMUM 15% FOR BOTH CREST AND SAG

(4) DRIVEWAY TYPES
- 6-INCH CONCRETE DRIVEWAY PAVEMENT OVER 6-INCH BASE AGGREGATE
- 2-INCH TO 3-INCH ASPHALTIC SURFACE OVER 6-INCH BASE AGGREGATE
- 6-INCH BASE AGGREGATE (MAY BE INCREASED FOR CLAY SUBGRADES.)

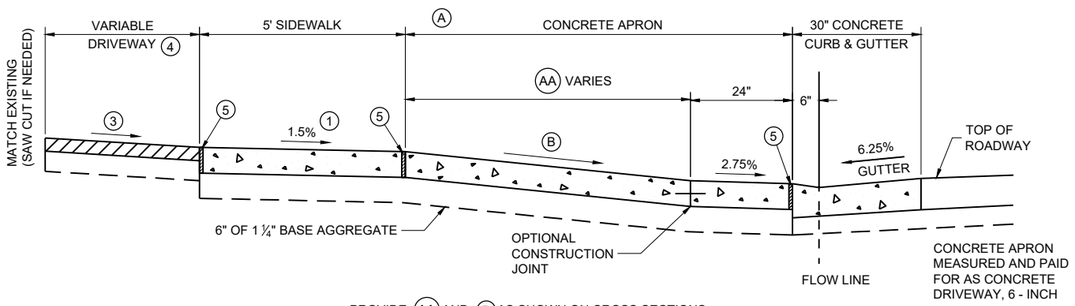
(5) ½" EXPANSION JOINT FILLER.

TABLE Z

(AA) FEET	(B) % 6.25% GUTTER	(B) % 4% GUTTER
4.5'	11.5%	9% TO 11.5%
5.5'	9% TO 11.5%	8% TO 11.5%
6.5'	8% TO 11.5%	6% TO 11.5%
7.5'	7% TO 11.5%	6% TO 11.5%
8.5'	6% TO 11.5%	5% TO 11.5%
9.5'	5% TO 11.5%	4% TO 11.5%

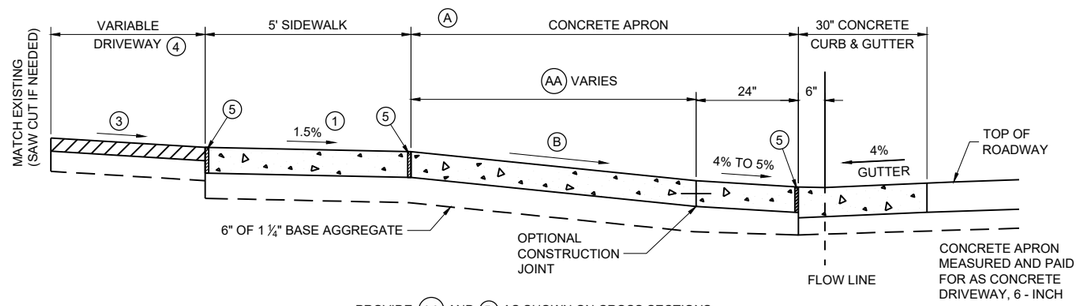
(W): 12' MIN. - 24' MAX. RESIDENTIAL AND NON-COMMERCIAL (PE & FE)

16' MIN. - 35' MAX. COMMERCIAL (CE)



PROVIDE (AA) AND (B) AS SHOWN ON CROSS SECTIONS.

6.25% GUTTER SLOPE



PROVIDE (AA) AND (B) AS SHOWN ON CROSS SECTIONS.

4% GUTTER SLOPE

NOTE: SIDEWALK MY BE DEPRESSED IN DRIVEWAY AREAS FOR (B) VALUES NOT SHOWN IN TABLE Z.

SIDEWALK WITHIN THE LIMITS OF THE DRIVEWAY PAID FOR AS CONCRETE DRIVEWAY 6-INCH.

SECTION Z - Z

DRIVEWAY DETAIL WITH CONCRETE CURB AND GUTTER

(URBAN AND SUBURBAN)

DRIVEWAY AND SIDEWALK RAMPS TYPE Z

STATE OF WISCONSIN
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GENERAL NOTES

A MAXIMUM RADIUS OF 10 FEET SHALL BE USED FOR NON-COMMERCIAL PRIVATE ENTRANCES. RADII FOR COMMERCIAL DRIVEWAYS SHALL BE DETERMINED BY THE ENGINEER BASED ON TRAFFIC AND DRIVEWAY PERMIT RESTRICTIONS.

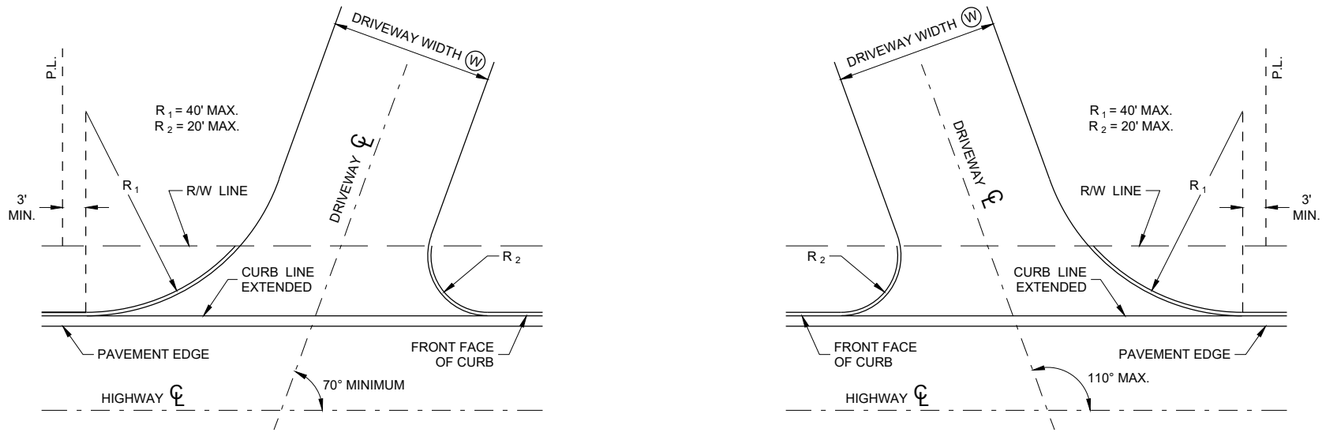
THE MINIMUM ANGLE OF INTERSECTION BETWEEN THE DRIVEWAY AND HIGHWAY CENTERLINES SHALL BE 70°.

ALL CURVILINEAR PRIVATE ENTRANCE OUTLINES SHALL BE CONTAINED WITHIN THE HIGHWAY R/W.

NO DRIVEWAY SHALL BE BUILT WITHIN 3 FEET OF THE PROPERTY LINE EXCEPT FOR EXISTING JOINT DRIVEWAY SHARED BY TWO OWNERS.

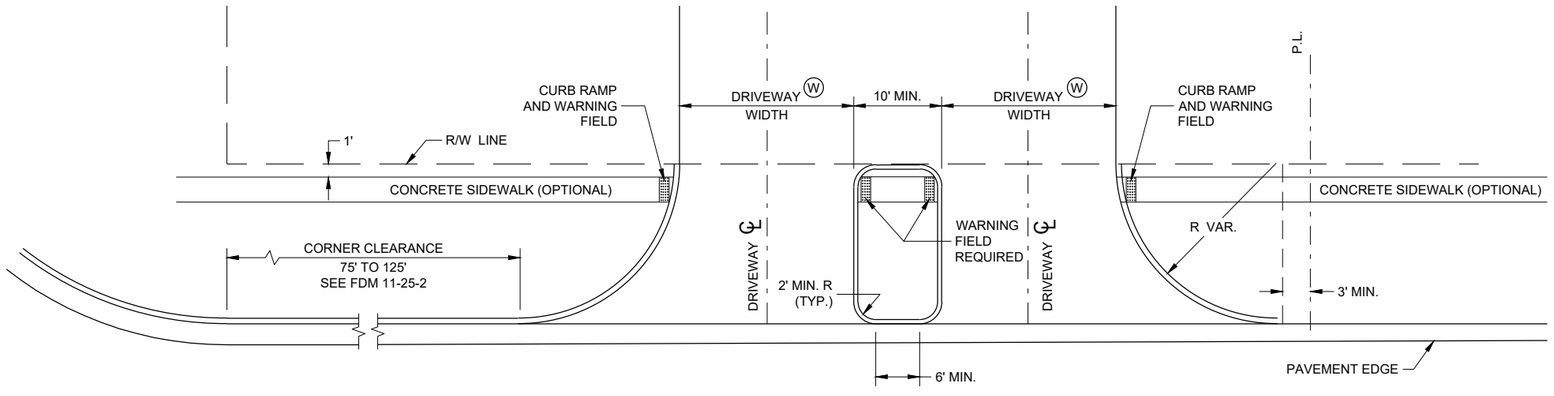
Ⓦ: 12' MIN. - 24' MAX. RESIDENTIAL AND NON-COMMERCIAL (PE & FE)

16' MIN. - 35' MAX. COMMERCIAL (CE)



SKEWED DRIVEWAY DETAILS (COMMERCIAL AND NON-COMMERCIAL)

SIDEWALK NOT SHOWN



DRIVEWAY LOCATION AND SPACING DETAILS

SIDEWALK SHOWN

DRIVEWAYS WITH CURB AND GUTTER RETURNS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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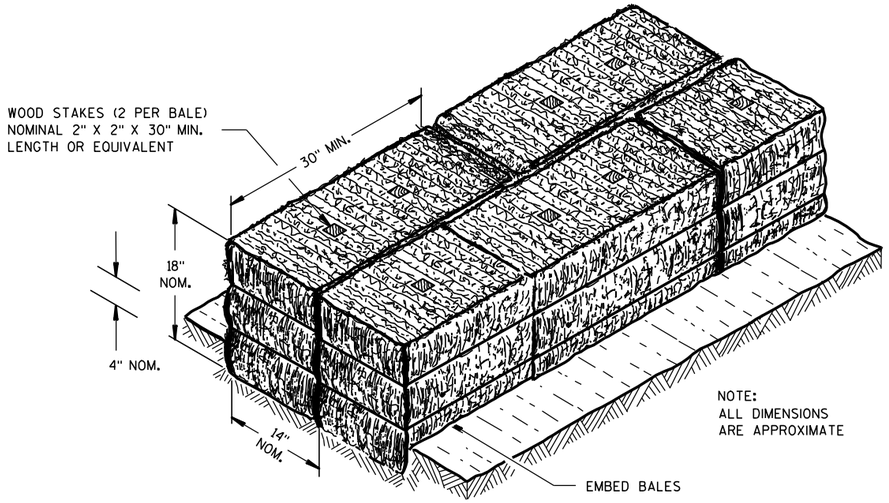
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DATE

/S/ <AUTHOR>
ROADWAY STANDARDS DEVE ENGINEER

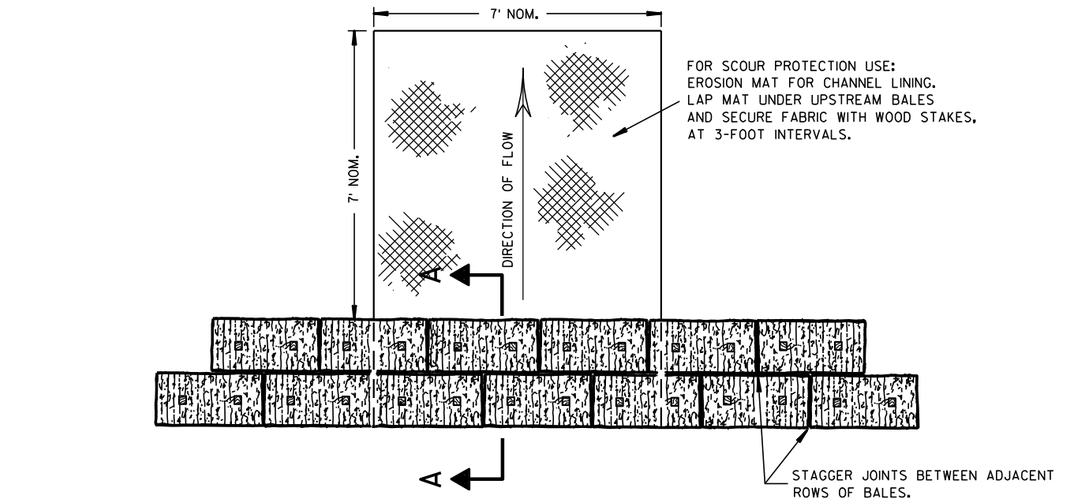
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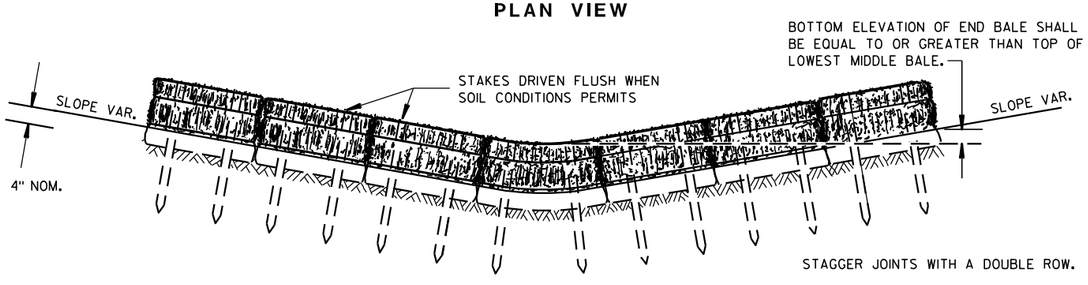
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SECTION A-A



PLAN VIEW



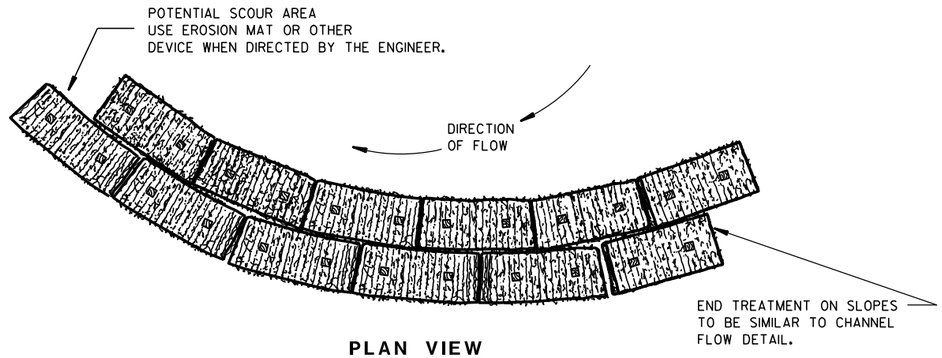
FRONT ELEVATION

TEMPORARY DITCH CHECK USING EROSION BALES (1)

GENERAL NOTES

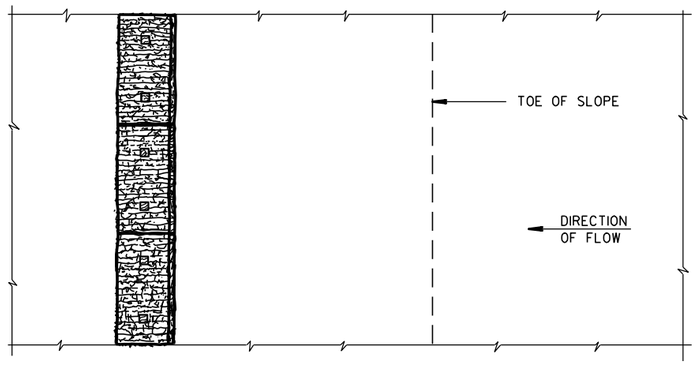
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

(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.

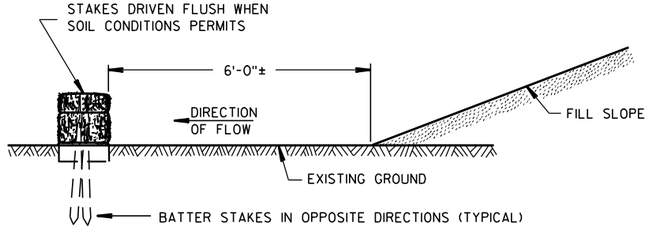


PLAN VIEW

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

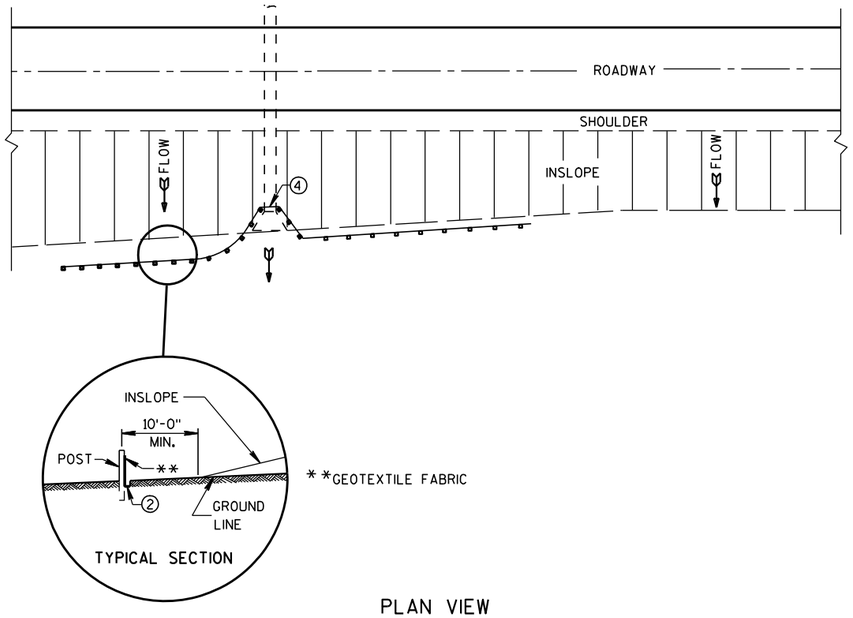
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S.D.D. 8 E 8-3

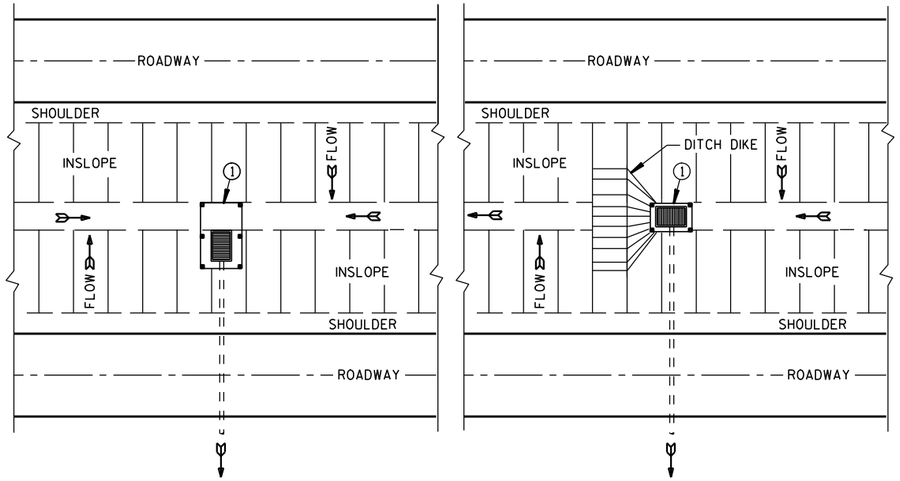
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S.D.D. 8 E 8-3



PLAN VIEW

TYPICAL APPLICATION OF SILT FENCE



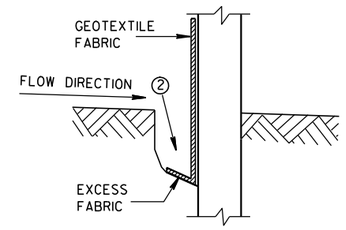
PLAN VIEW

SILT FENCE AT MEDIAN SURFACE DRAINS

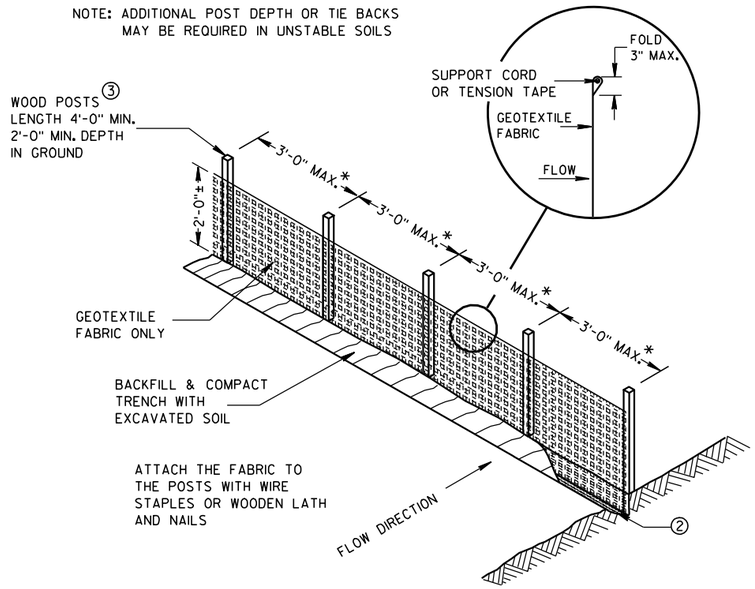
GENERAL NOTES

DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

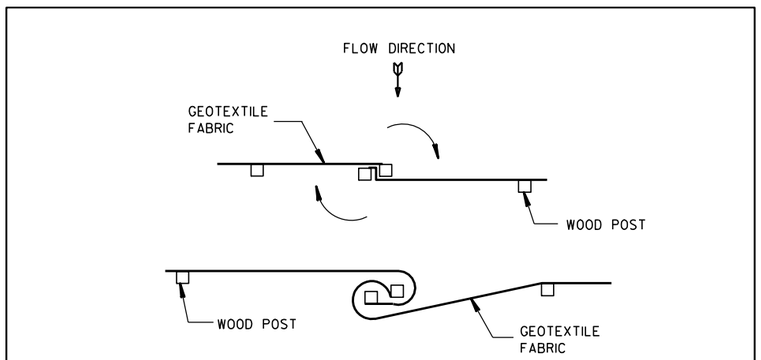
1. HORIZONTAL BRACE REQUIRED WITH 2" X 4" WOODEN FRAME OR EQUIVALENT AT TOP OF POSTS.
2. FOR MANUAL INSTALLATIONS THE TRENCH SHALL BE A MINIMUM OF 4" WIDE & 6" DEEP TO BURY AND ANCHOR THE GEOTEXTILE FABRIC. FOLD MATERIAL TO FIT TRENCH AND BACKFILL & COMPACT TRENCH WITH EXCAVATED SOIL.
3. WOOD POSTS SHALL 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.



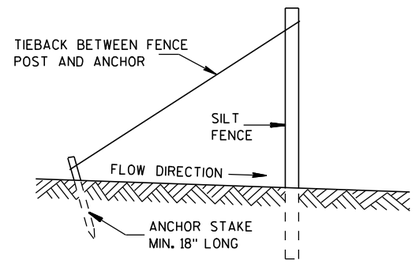
TRENCH DETAIL



SILT FENCE



JOINING TWO LENGTHS OF SILT FENCE 5



SILT FENCE TIE BACK

(WHEN REQUIRED BY THE ENGINEER)

SILT FENCE

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DEPARTMENT OF TRANSPORTATION

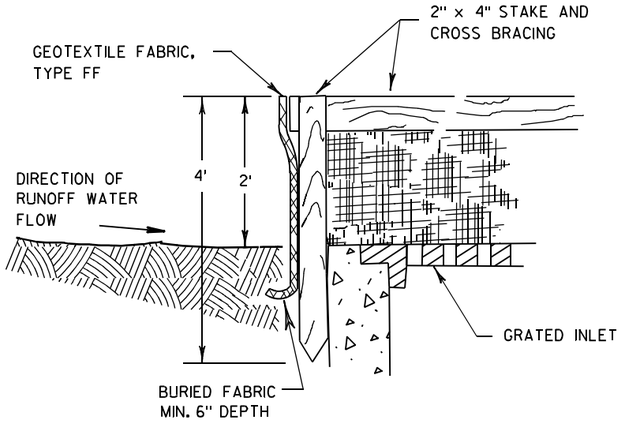
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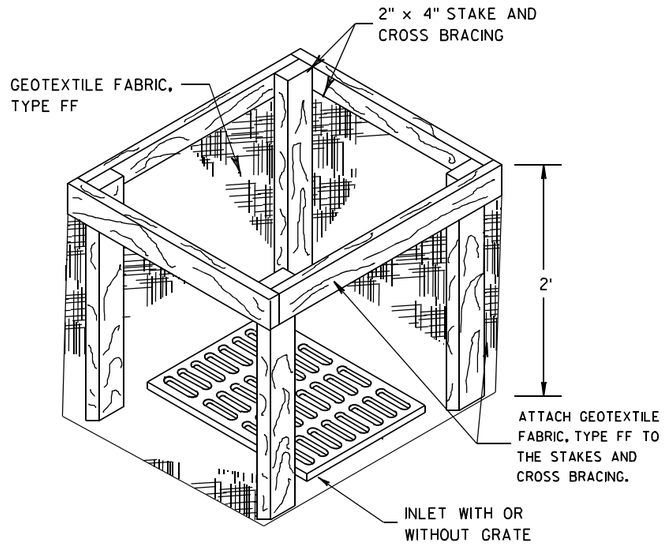
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S.D.D. 8 E 9-6

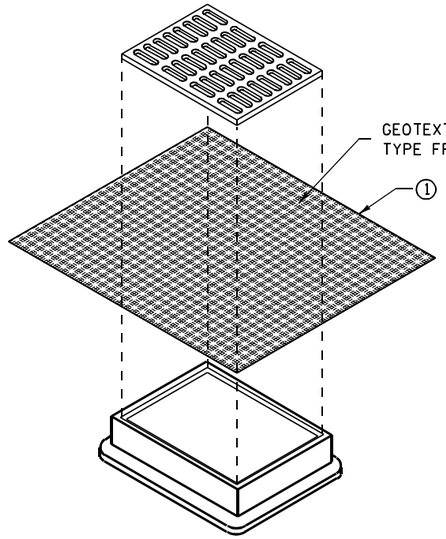
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S.D.D. 8 E 9-6



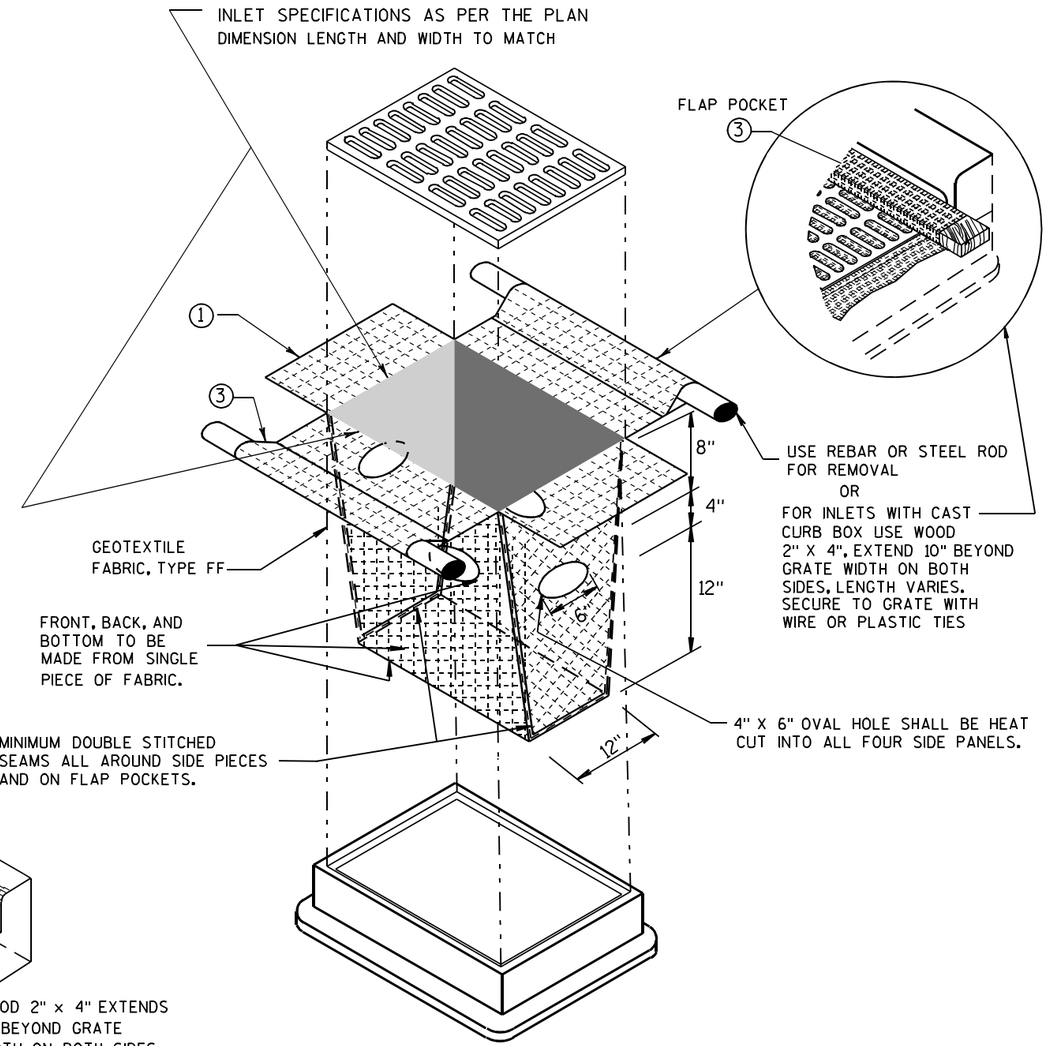


INLET PROTECTION, TYPE A



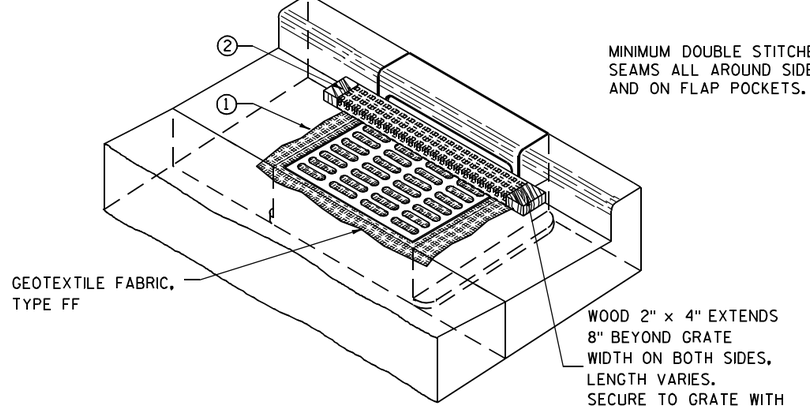
INLET PROTECTION, TYPE B
(WITHOUT CURB BOX)

(CAN BE INSTALLED IN ANY INLET WITHOUT A CURB BOX)



INLET PROTECTION, TYPE D

(CAN BE INSTALLED IN ANY INLET TYPE WITH
OR WITHOUT A CURB BOX AS PER NOTE ②)



INLET PROTECTION, TYPE C (WITH CURB BOX)

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.

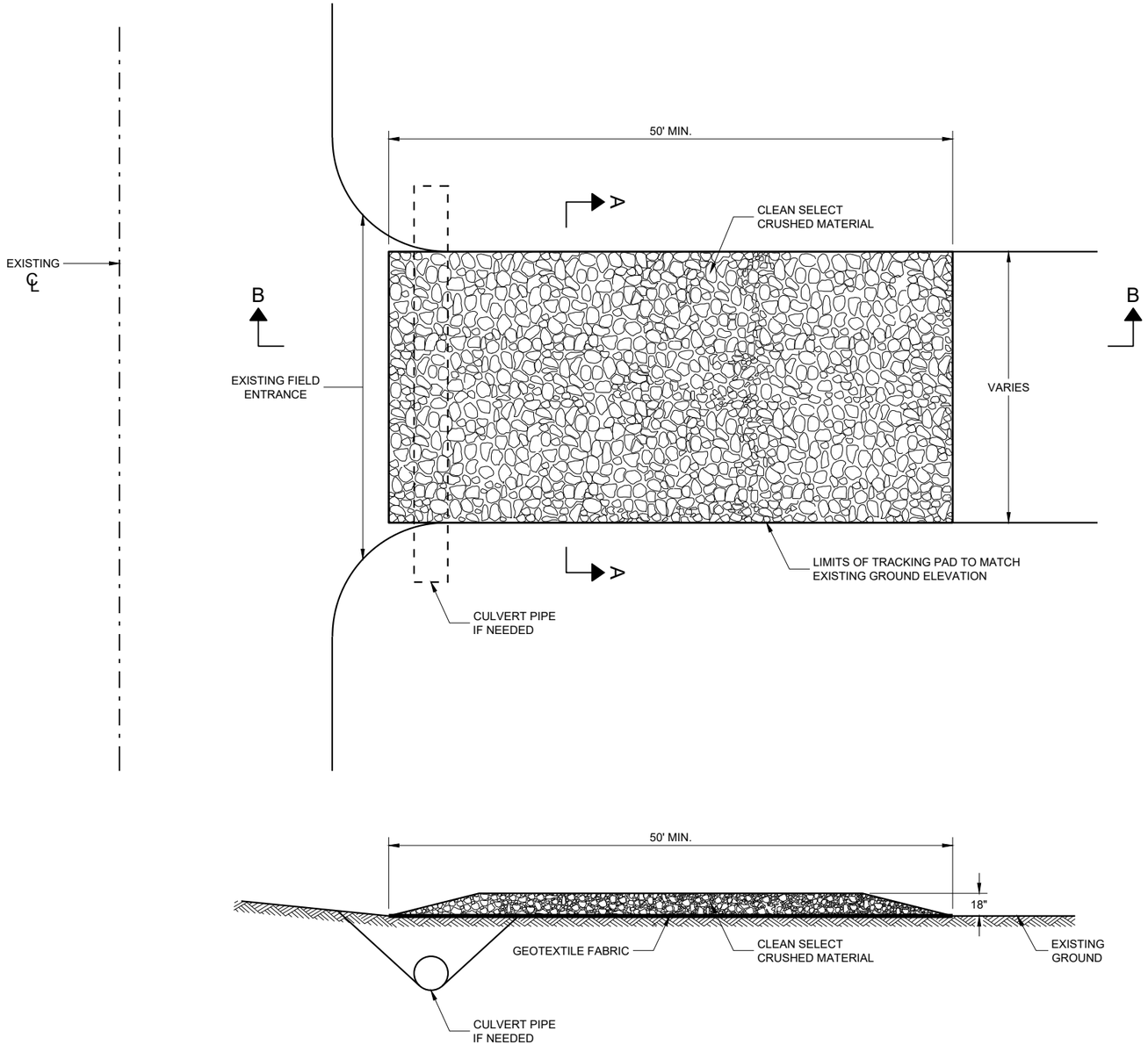
THE INSTALLED BAG SHALL HAVE A MINIMUM SIDE CLEARANCE, BETWEEN THE INLET WALLS AND THE BAG, MEASURED AT THE BOTTOM OF THE OVERFLOW HOLES, OF 3". WHERE NECESSARY THE CONTRACTOR SHALL CINCH THE BAG, USING PLASTIC ZIP TIES, TO ACHIEVE THE 3" CLEARANCE. THE TIES SHALL BE PLACED AT A MAXIMUM OF 4" FROM THE 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
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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.

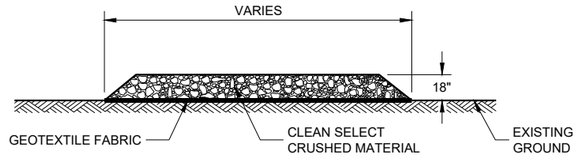
TRACKING PAD TO BE REMOVED AFTER CONSTRUCTION IS COMPLETED.

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

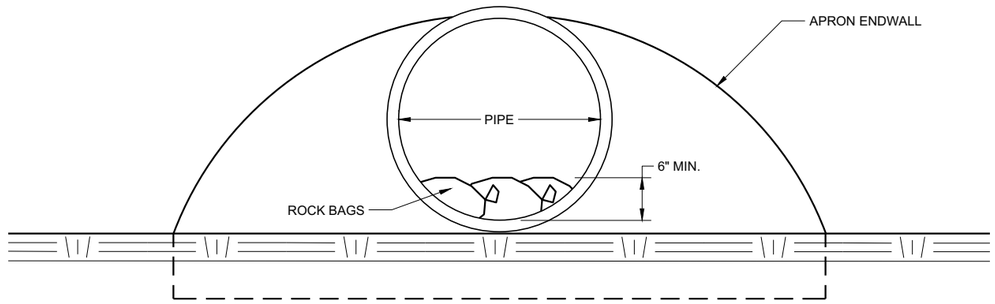
3/24/2011
DATE

/S/ Jerry H. Zogg
ROADWAY STANDARDS DEVE ENGINEER

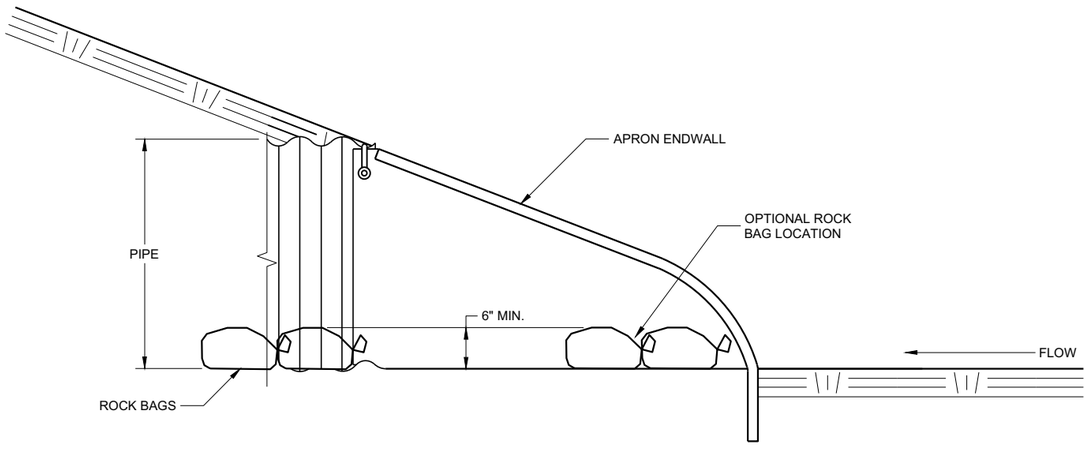
FHWA

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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	

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SDD 08E15 - 01

METAL APRON ENDWALLS

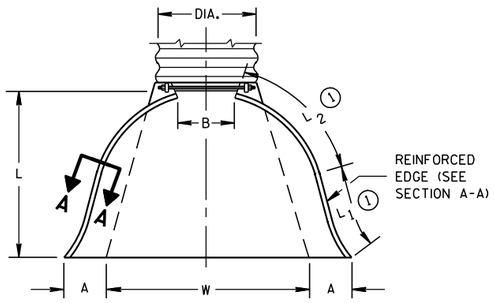
PIPE DIA. (IN.)	MIN. THICK. (Inches) STEEL	MIN. THICK. (Inches) ALUM.	DIMENSIONS (Inches) A (±1")	B (MAX.)	H (±1")	L (±1 1/2")	L1 ①	L2 ①	W (±2")	APPROX. SLOPE	BODY
12	.064	.060	6	6	6	21	12	17 1/2	24	2 1/2 to 1	1 Pc.
15	.064	.060	7	8	6	26	14	21 3/4	30	2 1/2 to 1	1 Pc.
18	.064	.060	8	10	6	31	15	28 1/4	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

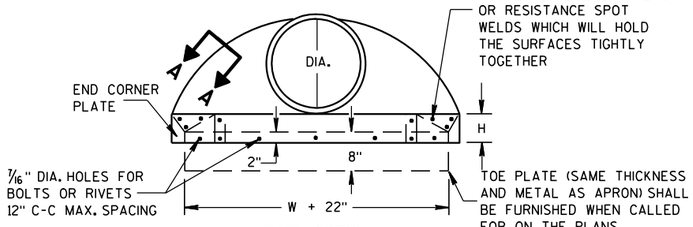
REINFORCED CONCRETE APRON ENDWALLS

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

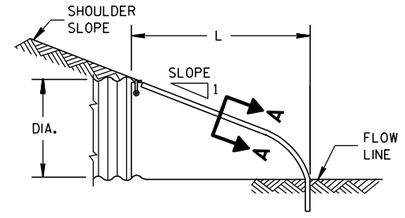
*MINIMUM
**MAXIMUM



PLAN VIEW

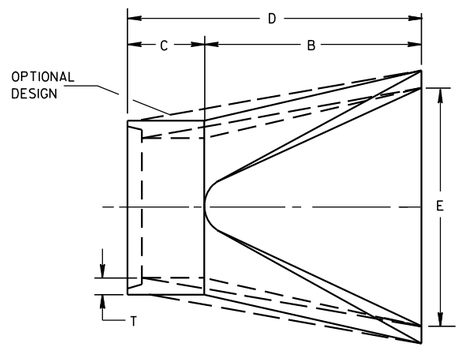


END VIEW

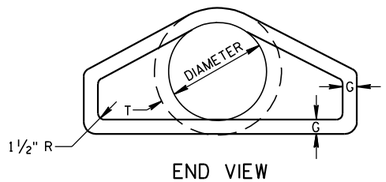


SIDE ELEVATION

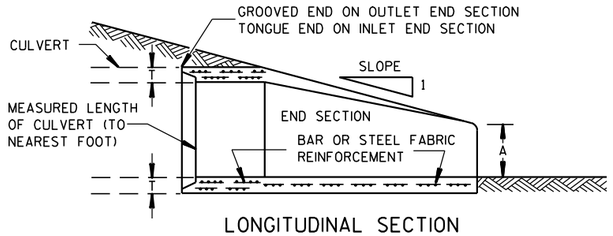
METAL ENDWALLS



PLAN

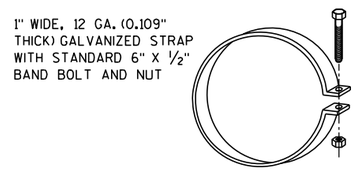


END VIEW



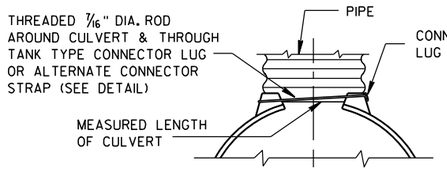
LONGITUDINAL SECTION

CONCRETE ENDWALLS

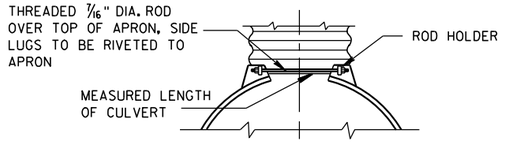


ALTERNATE FOR TYPE 1 CONNECTION

END SECTION CONNECTOR STRAP

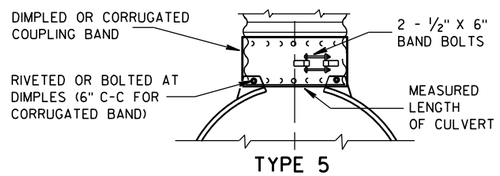


TYPE 1
FOR 12" THRU 24" CORR. PIPE



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

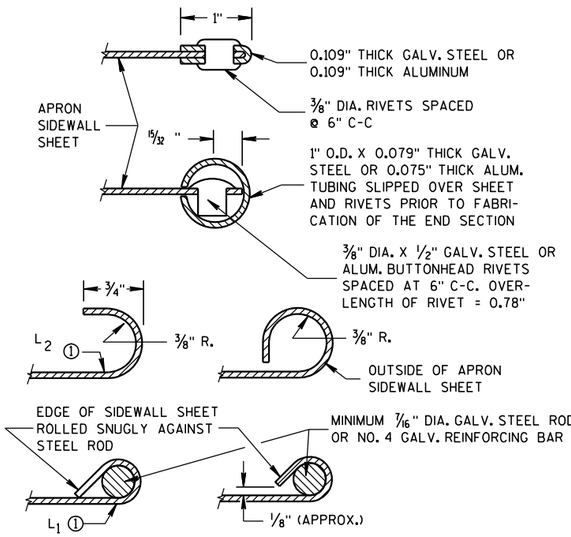
NOTE: DIMPLED BAND FITS OVER OUTSIDE OF ENDWALL. AND CORRUGATED BAND FITS INSIDE ENDWALL. DIMPLED BAND MAY BE USED WITH HELICALLY CORRUGATED PIPE.

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.

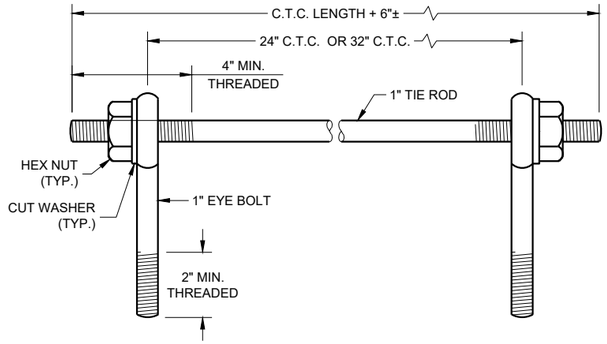
APRON ENDWALLS FOR CULVERT PIPE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

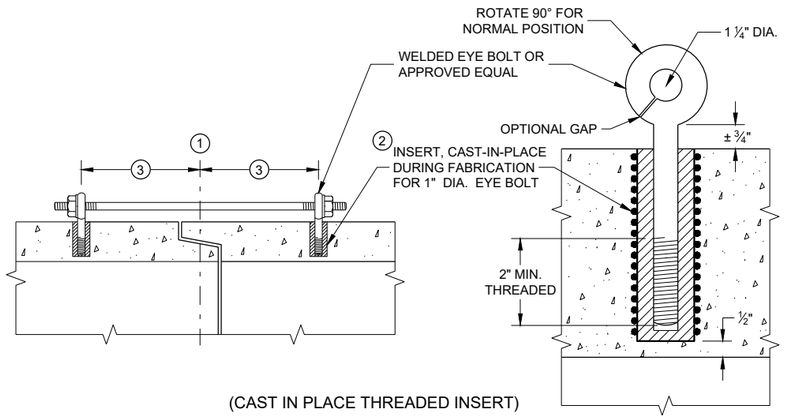
APPROVED
11/30/94 DATE
/S/ Rory L. Rhinesmith
CHIEF ROADWAY DEVELOP 277 NEER
FHWA

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S.D.D. 8 F 1-11



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.

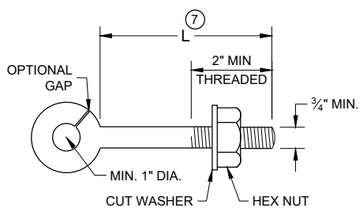
(3) HOLES SHALL BE CAST-IN-PLACE OR DRILLED PER THE APPLICABLE DETAIL, AND EQUAL DISTANCE FROM THE CENTERLINE OF THE JOINT.

(4) BOLT PROJECTION INSIDE OF PIPE SHALL NOT EXCEED 2 INCHES.

(5) OPENING TO BE ROD DIAMETER PLUS 1 INCH.

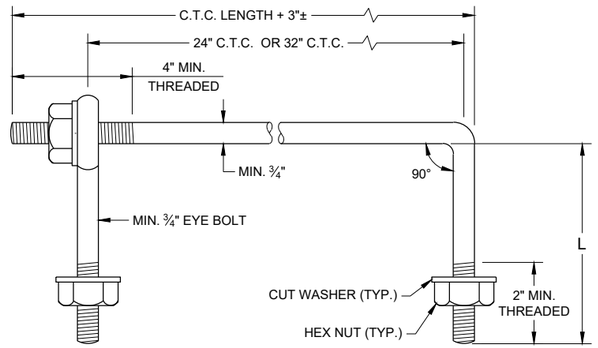
(6) LENGTH ADEQUATE TO EXTEND TO WITHIN ½ INCH OF THE INNER SURFACE OF THE PIPE.

(7) EYE BOLT LENGTH DETERMINED BY WALL THICKNESS, BELL THICKNESS AND BOLT PROJECTION INSIDE PIPE.

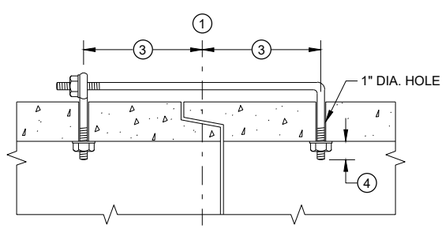


EYE BOLT (7)

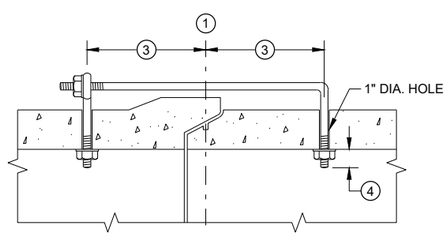
NOTE: TWO EYE BOLTS MAY BE USED WITH A 30" OR 38" LONG THREADED ROD IN LIEU OF THE 90° BENT TIE ROD.



EYE BOLT AND TIE ROD



(TONGUE AND GROOVE PIPE)



(MODIFIED BELL PIPE)

LONGITUDINAL SECTION

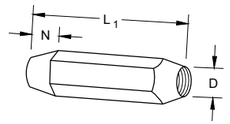
(JOINT TIES FOR 18" TO 66" DIA. CONCRETE PIPE)

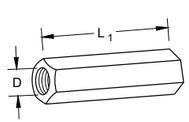
EYE BOLT AND TIE ROD ASSEMBLY (ALTERNATE NO. 2)

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

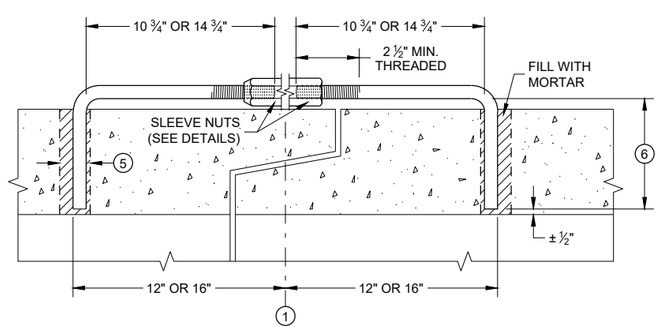
DIMENSIONS SHOWN ARE IN INCHES





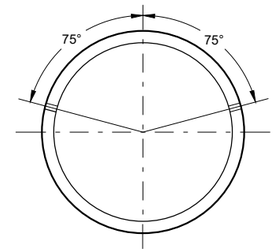
RIGHT AND LEFT THREADS

SLEEVE NUTS



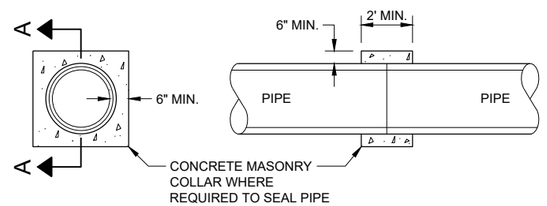
LONGITUDINAL SECTION

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

6

SDD 08F04 - 08

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.

FILL SLOPES FLATTER THAN 2 ½:1 SHALL BE WARPED TO MEET THE TOP OF THE WINGWALLS.

ALL STEEL REINFORCEMENT AND WELDED STEEL WIRE FABRIC SHALL BE EMBEDDED 2 INCHES CLEAR UNLESS OTHERWISE NOTED.

(1) MINIMUM REINFORCEMENT SHALL BE 6" X 6" - W4.0 X W4.0 OR NO. 3 BARS SPACED 12" C-C IN BOTH DIRECTIONS.

(2) THE SPACE BETWEEN PIPES SHALL BE AS FOLLOWS:

DIAMETER OR SPAN	SPACE
UP TO AND INCLUDING 48"	2' - 0"
OVER 48" TO 72"	½ DIA. OR SPAN
OVER 72"	3' - 0"

(3) LIMITS OF TRENCH BACKFILL

(4) LIMITS OF FOUNDATION BACKFILL

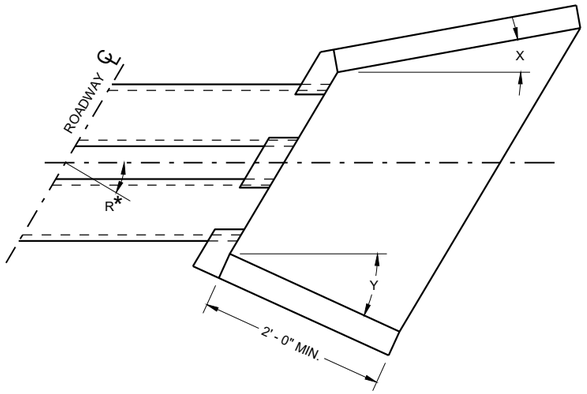
(5) FOUNDATION AND TRENCH BACKFILL ARE MATERIALS INCLUDED IN PAYMENT FOR CULVERT PIPE, PIPE ARCH, CULVERT PIPE REINFORCED CONCRETE HORIZONTAL ELLIPSE OR CONCRETE MASONRY ENDWALLS.

(6) DO NOT PLACE FOUNDATION BACK FILL OR ANY OTHER GRANULAR BACKFILL AROUND OR BELOW CUT OFF WALL. POUR CUT OFF WALL AGAINST NATIVE SOIL

(7) MINIMUM HEIGHT SHALL BE THE GREATER OF 1'- 0" OR ¼ HEIGHT OF CULVERT PIPE.

TRENCH BACKFILL

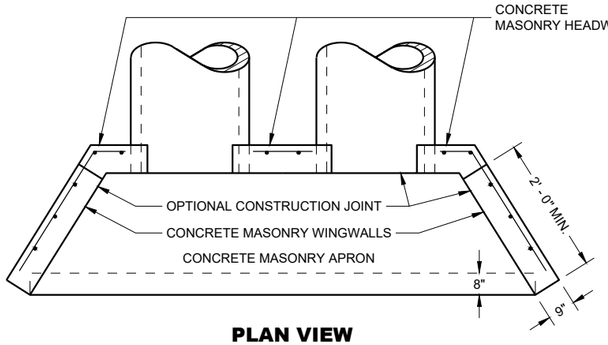
FOUNDATION BACKFILL



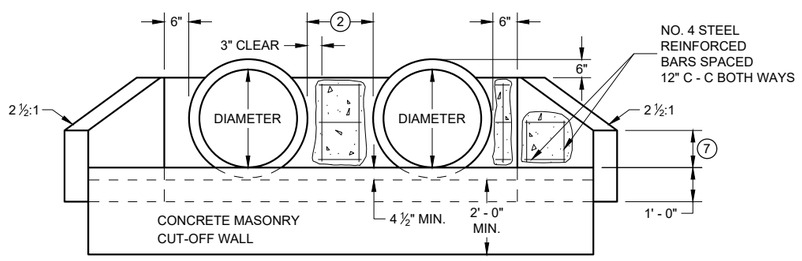
WINGWALL ANGLE DETAILS

INLET			OUTLET		
R*	X	Y	R*	X	Y
0 - 7°	30°	30°	0 - 15°	15°	15°
8 - 22°	25°	30°	16 - 45°	10°	15°
23 - 37°	20°	30°	46 - 75°	5°	15°
38 - 52°	15°	30°	OVER 75°	0°	15°
53 - 67°	10°	30°			
68 - 82°	5°	30°			
OVER 82°	0°	30°			

R* = NUMBER OF DEGREES RIGHT OR LEFT HAND FORWARD

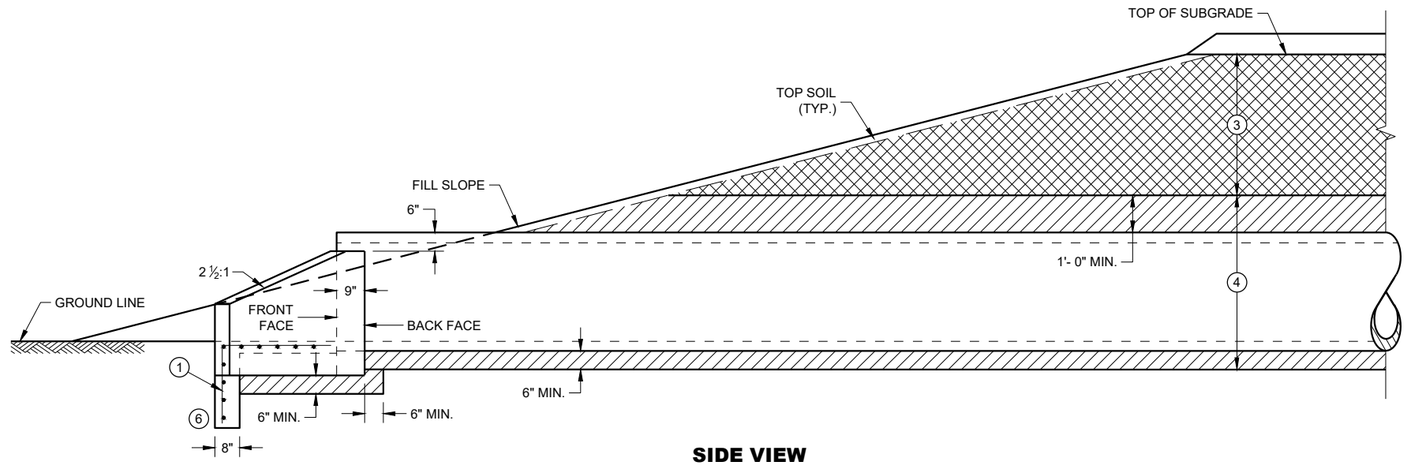


PLAN VIEW



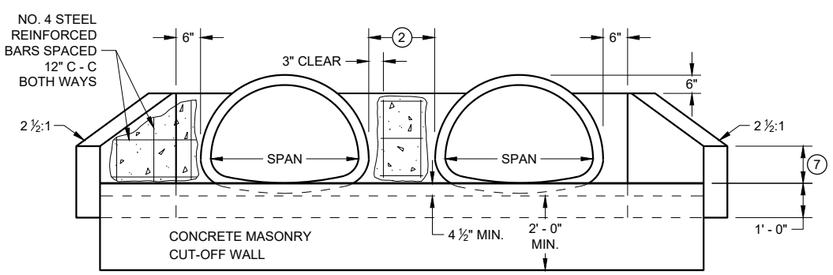
END VIEW

CIRCULAR PIPE



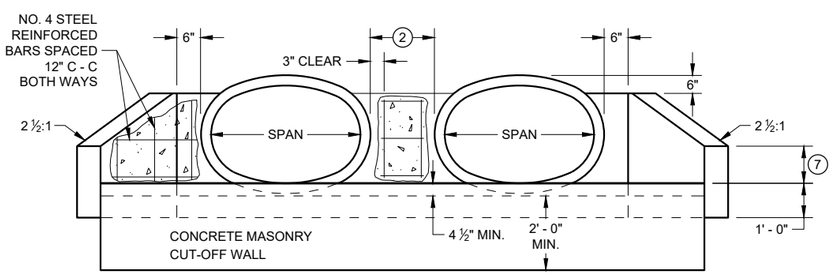
SIDE VIEW

CIRCULAR PIPE, PIPE ARCH OR HORIZONTAL ELLIPSE



END VIEW

PIPE ARCH



END VIEW

HORIZONTAL ELLIPSE

CONCRETE MASONRY ENDWALLS FOR CULVERT PIPE AND PIPE ARCH

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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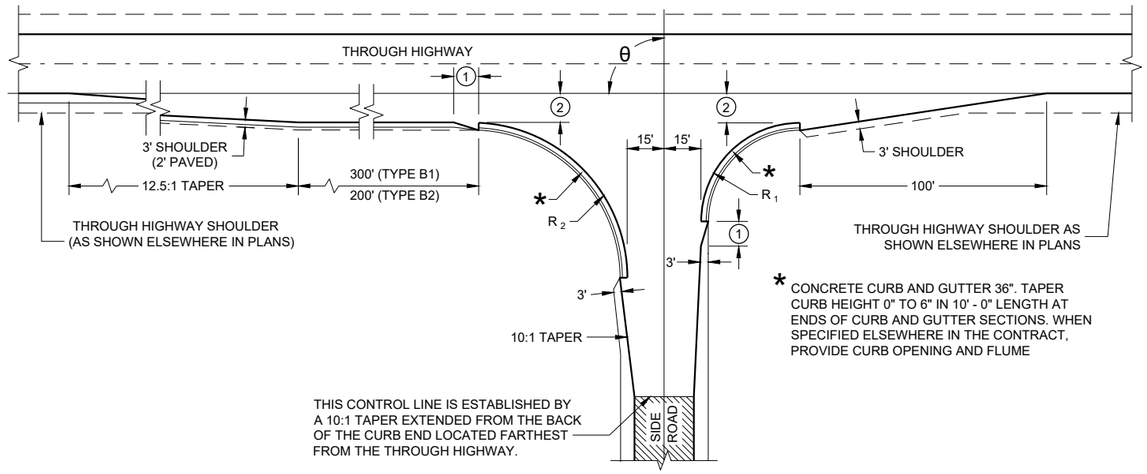
May 2022
DATE

/S/ Rodney Taylor
ROADWAY STANDARDS DEVE ENGINEER

FHWA

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SDD 08F10 - 02



* 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.

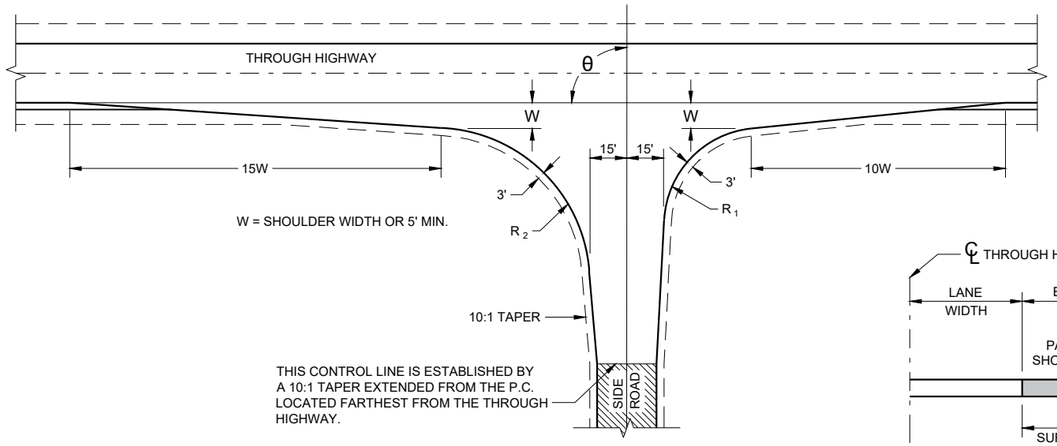
(1) 10-FT TYPICAL.

(2) 12-FT** PLUS ADDITIONAL WIDTH FOR BIKE LANE IF SHOWN ELSEWHERE IN THE PLAN.

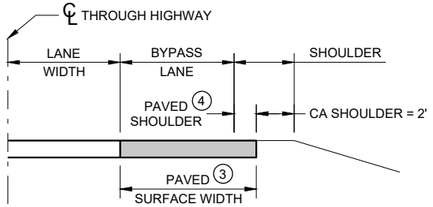
**10-FT MAY BE USED ON TYPE B2 ON RESURFACING PROJECTS IF SPECIFIED IN THE CONTRACT.

(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.

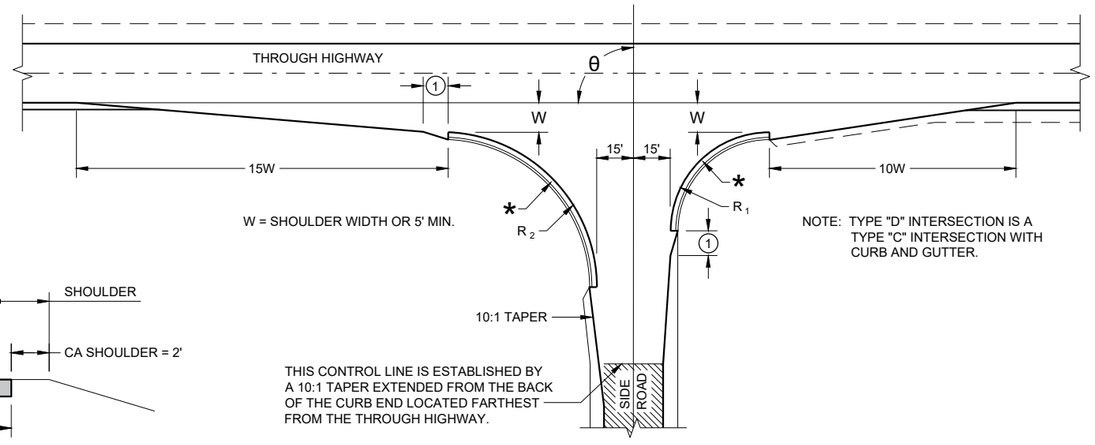


TYPE "C"



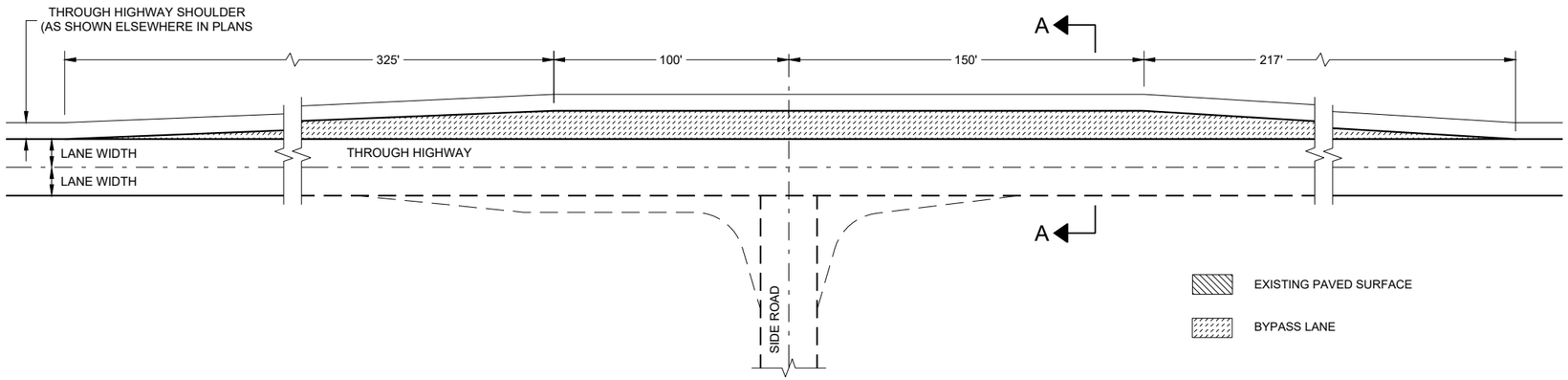
SECTION A - A

(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

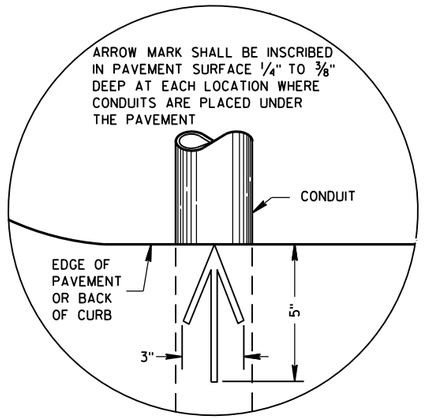
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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SDD 09A01 - 14a

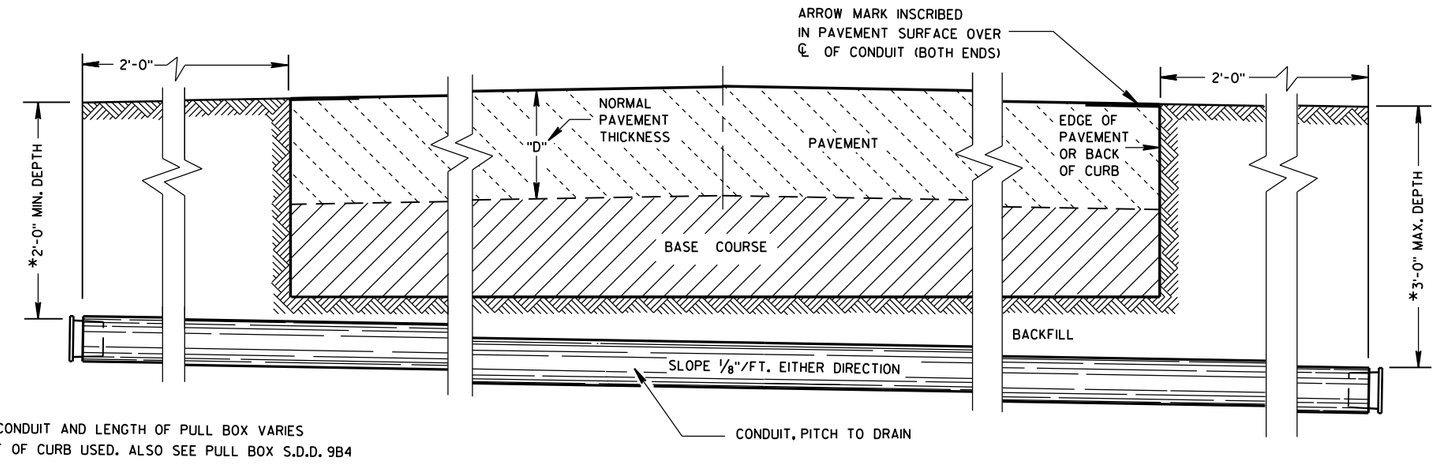
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SDD 09A01 - 14a



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.

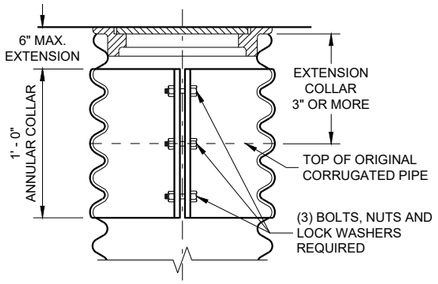
CONDUIT

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DEPARTMENT OF TRANSPORTATION

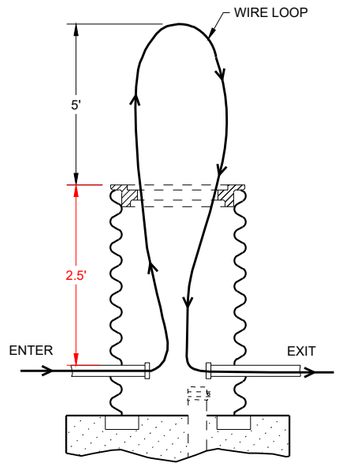
APPROVED
March, 2017 — DATE
/S/ Ahmet Demirbilek — STATE ELECTRICAL
FHWA

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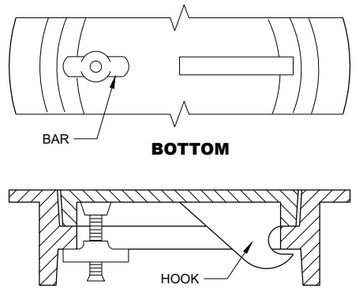
S.D.D. 9 B 2-10



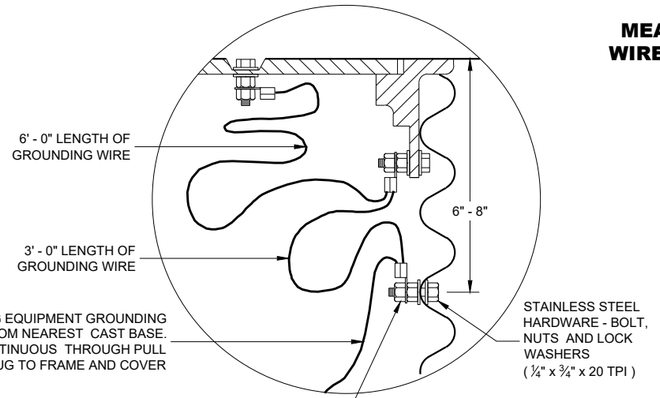
CORRUGATED PIPE EXTENDER



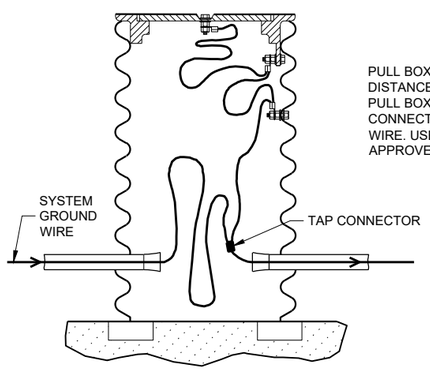
MEASUREMENT DETAIL FOR WIRE/CABLE IN THE PULL BOX



ALTERNATE COVER (LOCKING)
TIGHTENING BAR TYPE

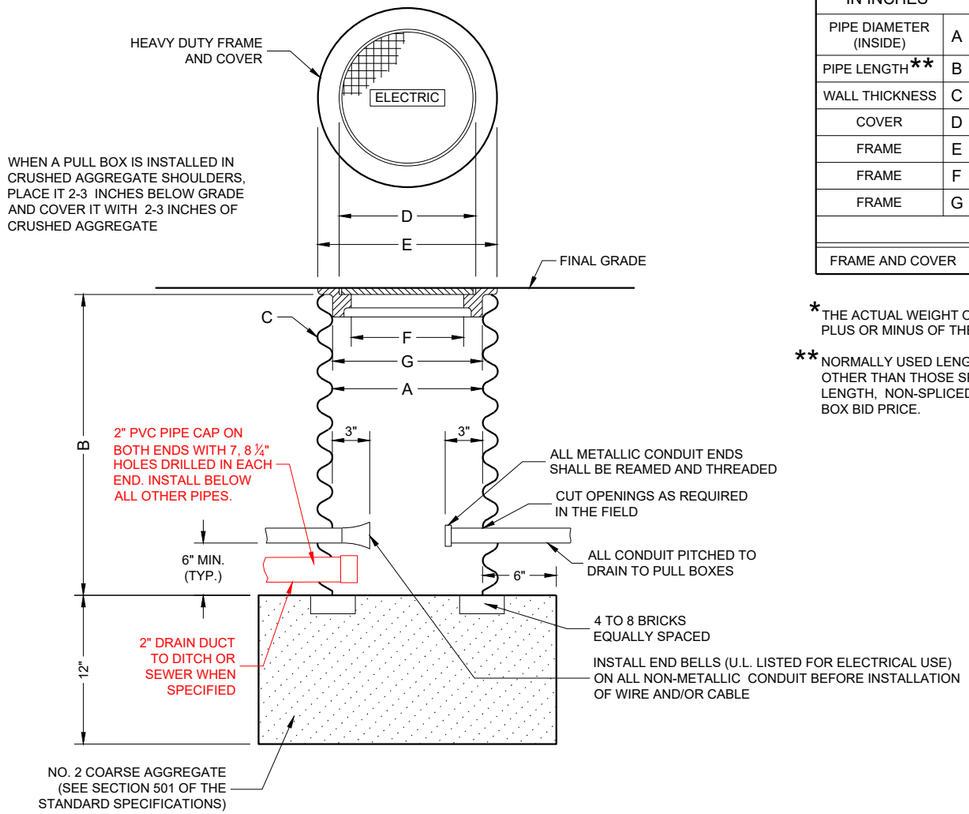


EQUIPMENT GROUNDING LUG AND LOCATION IN STEEL PULL BOXES



PULL BOX TO NEAREST BASE DISTANCE MORE THAN 20 FEET. PULL BOX GROUND WIRE SHALL CONNECT AT SYSTEM GROUNDING WIRE. USE DEPARTMENT APPROVED TAP CONNECTOR.

EQUIPMENT GROUNDING LUG AND LOCATION IN STEEL PULL BOXES



PULL BOX

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.

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

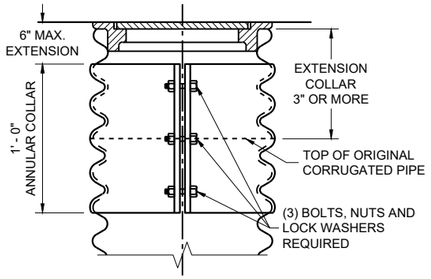
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2022
DATE

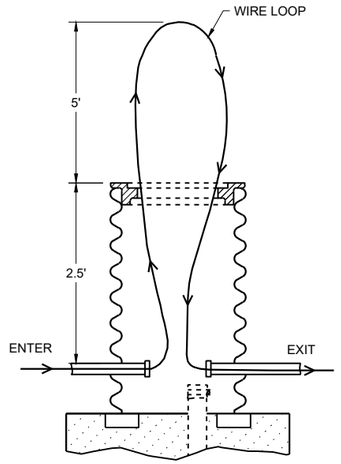
/S/ Ahmet Demirbilek
STATE ELECTRICAL ENGI

FHWA

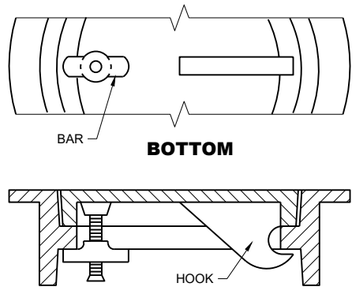
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SDD 09B04-12



CORRUGATED PIPE EXTENDER



MEASUREMENT DETAIL FOR WIRE/CABLE IN THE PULL BOX



BOTTOM

SECTION

ALTERNATE COVER (LOCKING)

TIGHTENING BAR TYPE

GENERAL NOTES

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ALL FRAMES AND COVERS SHALL BE HEAVY DUTY TYPE, SUITABLE FOR VEHICULAR TRAFFIC LOADS.

PULL BOXES LOCATED IN THE ROADWAYS SHALL HAVE LOCKING COVERS.

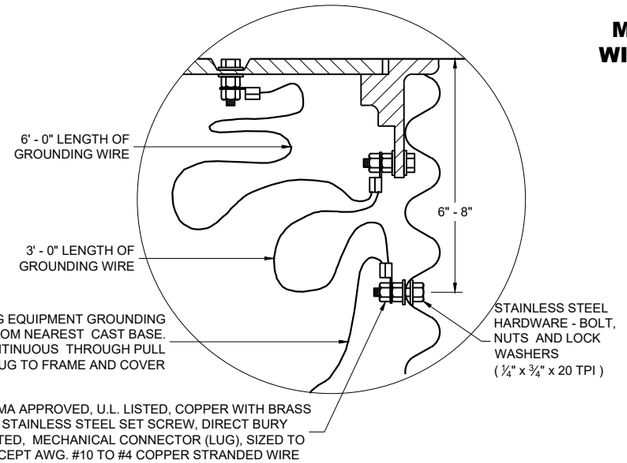
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THE CONTRACTOR SHALL NOT INSTALL WIRE IN ANY PULL BOX UNTIL ITS INSTALLATION HAS BEEN INSPECTED AND ACCEPTED BY THE ENGINEER.

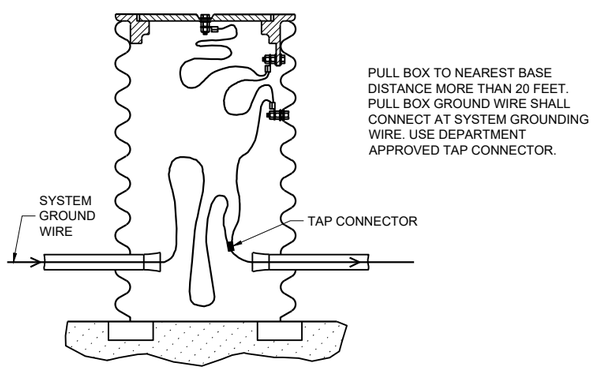
GROUNDING LUGS (MECHANICAL CONNECTORS) SHALL BE U.L. LISTED AND APPROVED FOR USE WITH COPPER WIRE.

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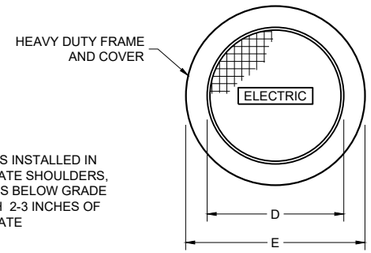
WHEN PULL BOXES ARE INSTALLED FOR FUTURE USE, DO NOT INSTALL THE EQUIPMENT GROUNDING LUG. THE EQUIPMENT GROUNDING LUG, THE EQUIPMENT GROUNDING ELECTRODE AND THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE REQUIRED AND INSTALLED UNDER A FUTURE WIRING CONTRACT.



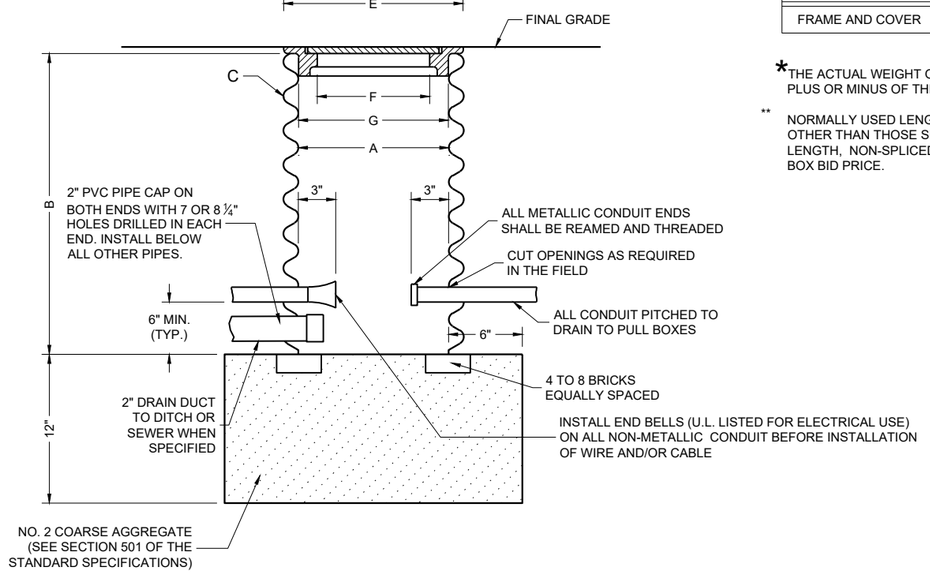
EQUIPMENT GROUNDING LUG AND LOCATION IN STEEL PULL BOXES



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

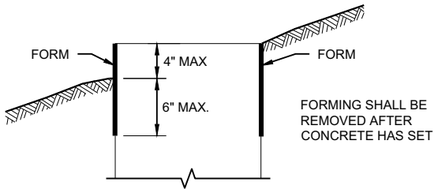
/S/ Ahmet Demirbilek
STATE ELECTRICAL ENGINEER

FHWA

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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.

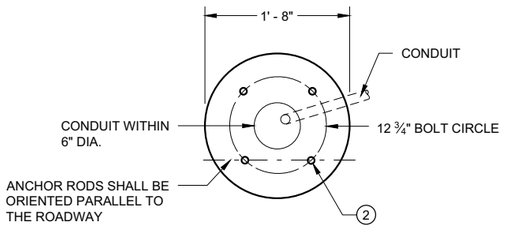
WASHERS AND LOCK WASHERS ARE REQUIRED ON ALL ANCHOR RODS.

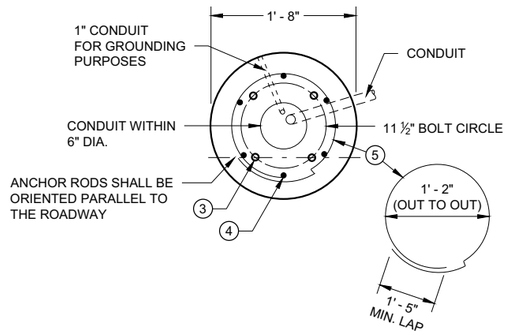
WHEN ANCHOR RODS USING THE ALTERNATE "L" BEND ARE FURNISHED, THE 4 INCH"L" BEND SHALL BE IN ADDITION TO THE SPECIFIED ANCHOR ROD BAR LENGTH. THE "L" BEND SHALL NOT BE THREADED.

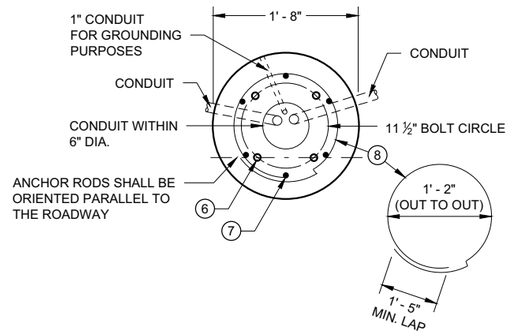
ANCHOR RODS SHALL BE INSTALLED WITH MISALIGNMENTS OF LESS THAN 1:40 FROM VERTICAL.

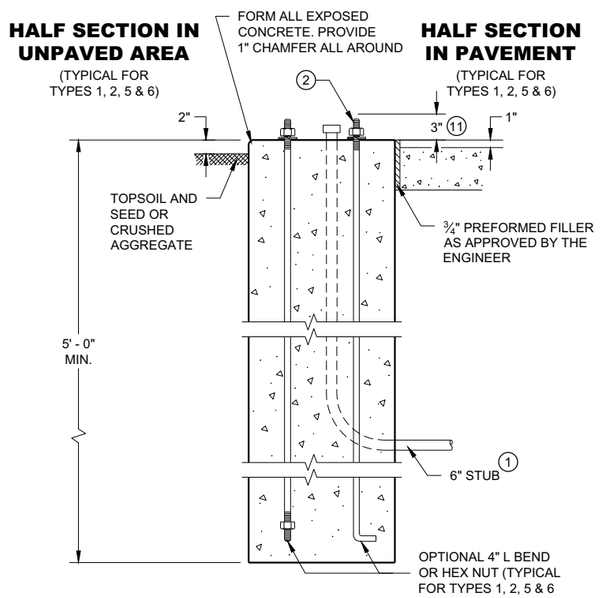
WELDING OF THE ANCHOR RODS TO THE CAGE IS UNACCEPTABLE. TIE WIRES SHALL BE USED.

BAR STEEL REINFORCEMENT SHALL BE COATED WITH POWDERED EPOXY RESIN IN ACCORDANCE WITH SECTION 505 OF THE STANDARD SPECIFICATIONS (LATEST EDITION).

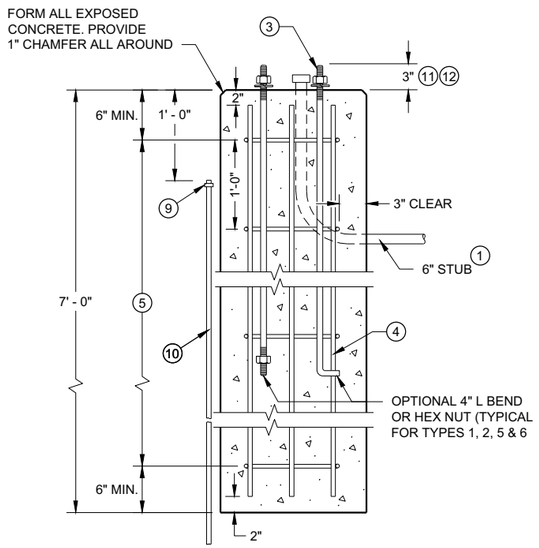




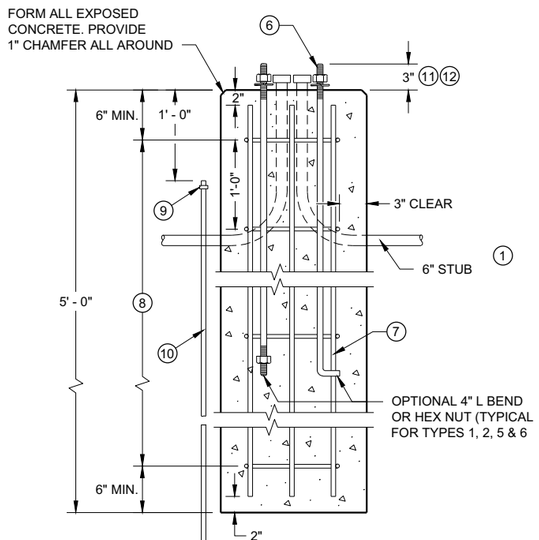




TYPE 1



TYPE 2



TYPE 5 & 6

CONCRETE BASES

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.

CONCRETE BASES TYPES 1, 2, 5, & 6

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2019
DATE
/S/ Ahmet Demirbilek
STATE ELECTRICAL ENGI

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SDD 09C02 - 09

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.

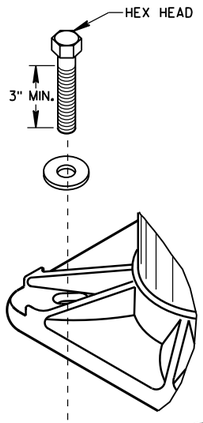
THE MECHANICAL CONNECTOR SHALL BE INSTALLED USING A 1/4" - 20 (TPI) STAINLESS STEEL HEX HEAD BOLT OF SUFFICIENT LENGTH TO FIRMLY ATTACH THE LUG TO THE BASE.

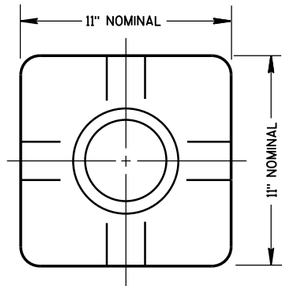
SHOULD THE MANNER OF ATTACHMENT OF THE LUG REQUIRE WASHERS, HEX NUTS, LOCK WASHER - THEY SHALL BE STAINLESS STEEL AS IS THE BOLT. THE MANNER OF ATTACHMENT SHALL NOT BLOCK ACCESSIBILITY TO WIRE PLACEMENT IN THE CONNECTOR.

PEDESTAL BASE COLLAR THREADING SHALL BE TAPERED AND IN ACCORDANCE WITH NATIONAL PIPE THREADING DIMENSIONS.

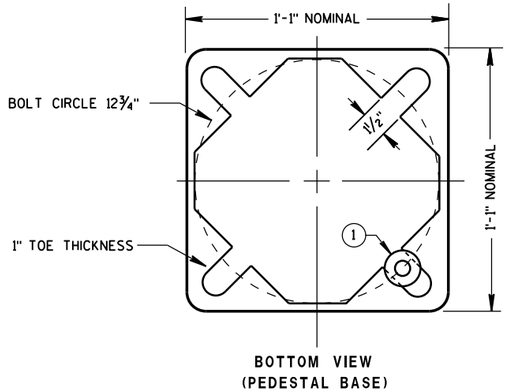
BASE COLLAR THREADING SHALL EXTEND INTO THE BASE COLLAR WITH SUFFICIENT DEPTH TO ACCEPT THE INSTALLATION OF TRAFFIC SIGNAL STANDARDS TO A DEPTH OF 1 1/2", THEN TIGHTENING TO A POINT OF BEING IMMOVABLE.

THE ACCESS DOOR SHALL BE OF THE SAME MATERIAL AS THE BASE.

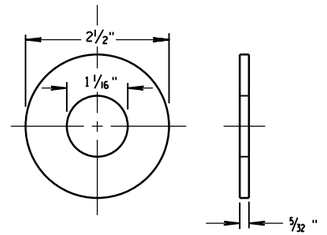




TOP VIEW
(PEDESTAL BASE)

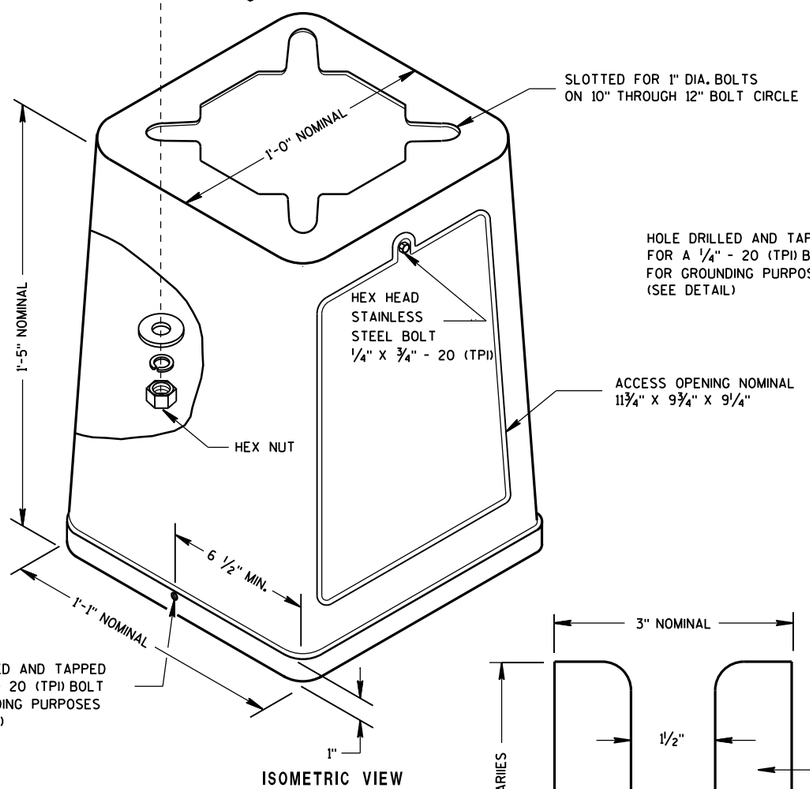


BOTTOM VIEW
(PEDESTAL BASE)

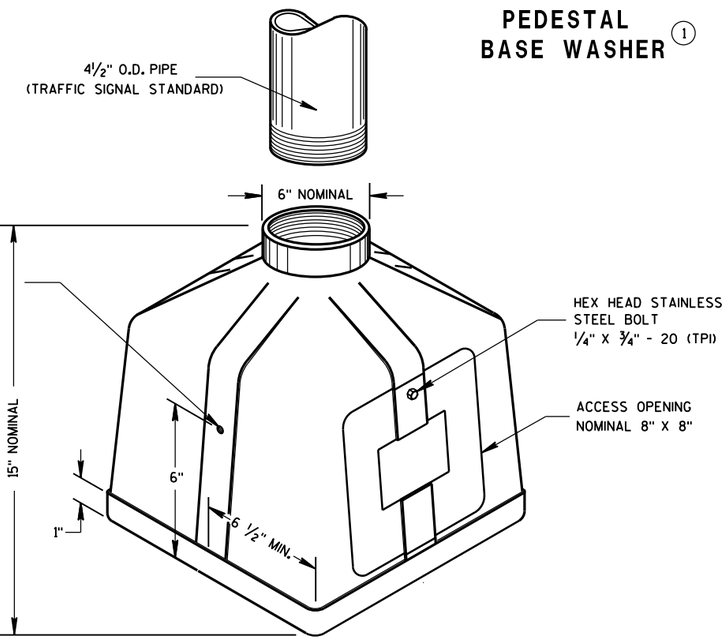


ZINC COATED STEEL WASHER
TO BE PROVIDED BY THE CONTRACTOR

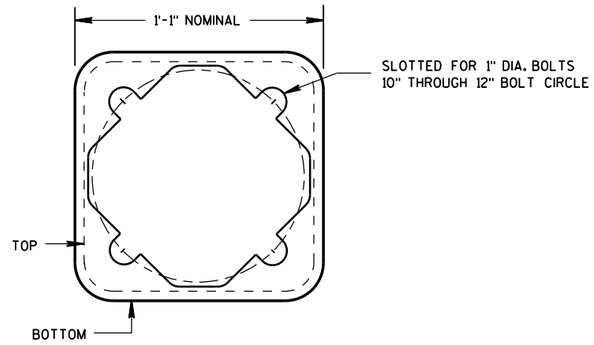
PEDESTAL BASE WASHER (1)



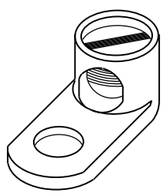
ISOMETRIC VIEW



ISOMETRIC VIEW
PEDESTAL BASE



BOTTOM VIEW
(TRANSFORMER BASE)

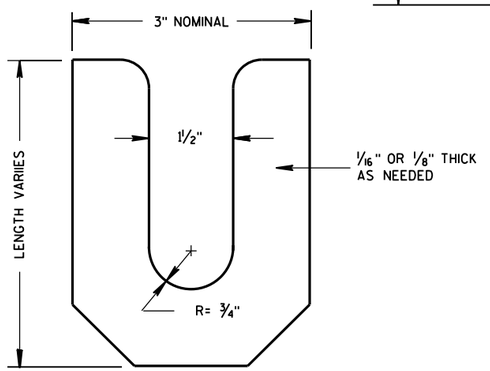


TYPICAL MECHANICAL CONNECTOR LUG

TO BE FURNISHED WITH EACH BASE

TRANSFORMER BASE

INTENDED FOR USE WITH TYPE 2, 3, 4, 5 & 6 POLES



LEVELING SHIM

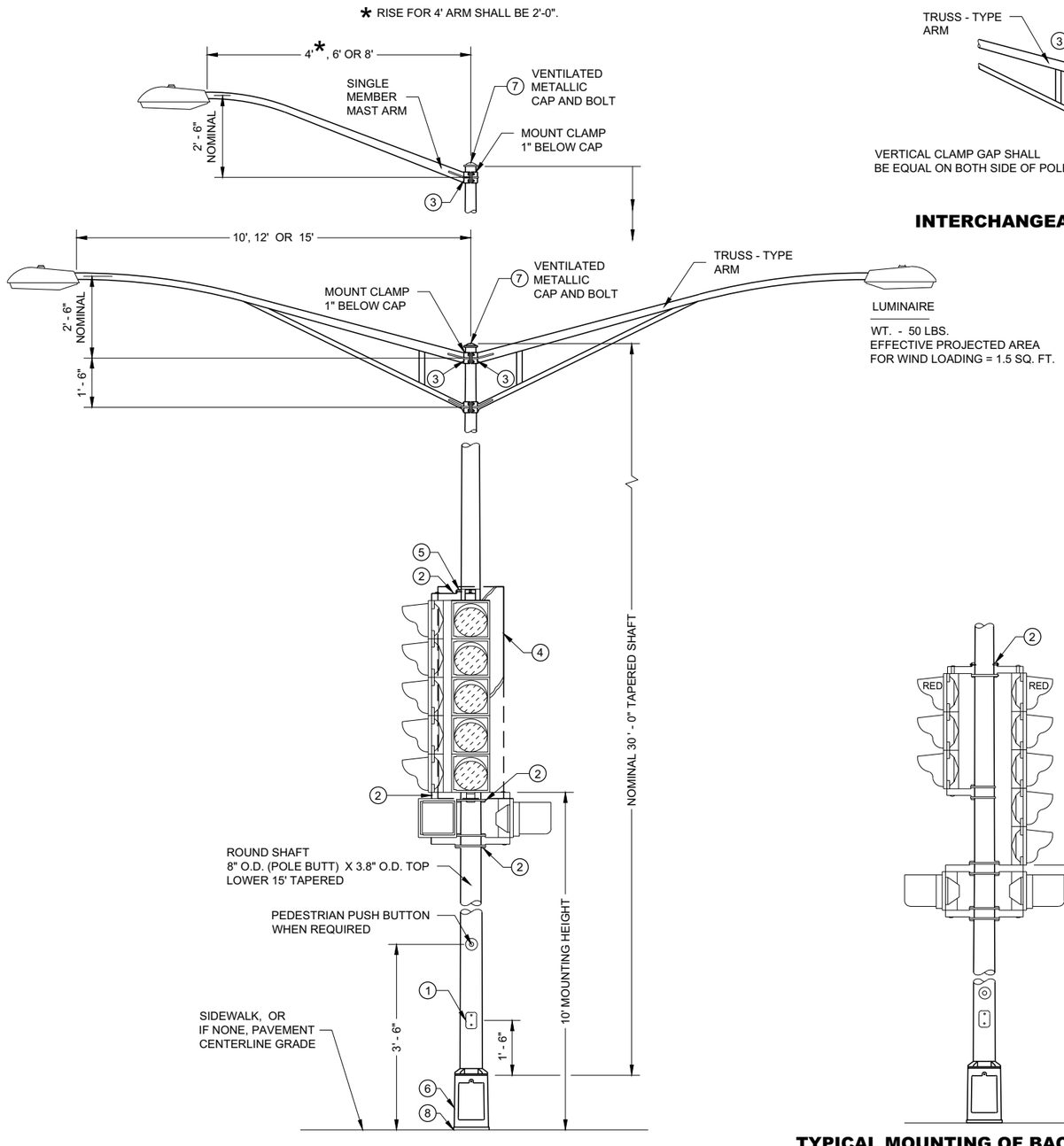
TRANSFORMER/PEDESTAL BASES	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED Sept. 2014 DATE	/S/ Ahmet Demirbilek STATE ELECTRICAL 285
FHWA	

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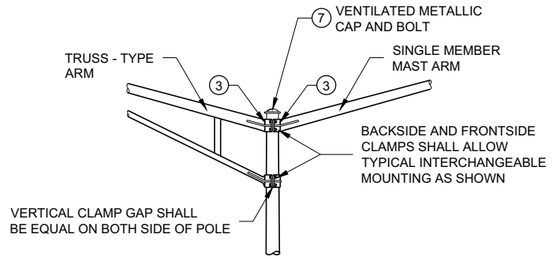
S.D.D. 9 C 3-4

6

S.D.D. 9 C 3-4



(MAXIMUM LOAD)



INTERCHANGEABLE MOUNTING DETAIL

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

ALL TYPE 4 POLE MOUNTINGS SHALL BE DESIGNED TO INCLUDE TWIN 15' ARMS WITH LUMINAIRES.

POLES SHALL BE GALVANIZED STEEL WITH A MINIMUM WALL THICKNESS OF U.S. STANDARD 11 GAGE (.1196").

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 ⅜ 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 ⅜" 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.

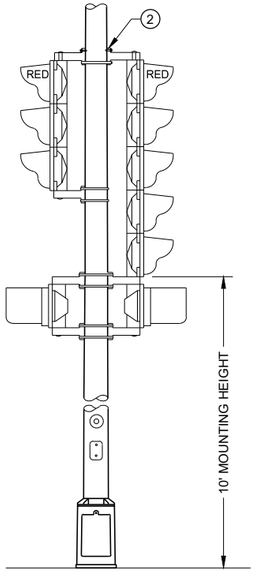
(5) POLE MOUNTED SIGNAL FACES SHALL REQUIRE ONE OR MORE MOUNTING SPACERS UNDER THE TOP MOUNTING BRACKET(S) AS REQUIRED, TO PLUMB THE SIGNAL FACE.

(6) CAST ALUMINUM TRANSFORMER BASE, WHEN REQUIRED.

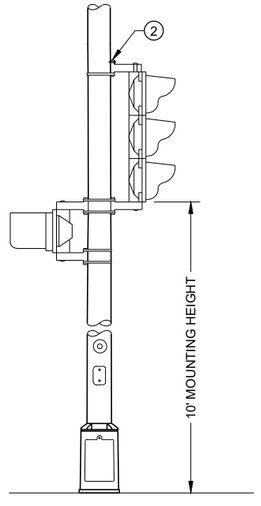
(7) FURNISH AND INSTALL VENTILATED, CAST METALLIC (ALUMINUM ALLOY) CAPS. FASTEN CAPS WITH ONE (1) ¼" X ¾" - 20 TPI STAINLESS STEEL, HEX HEAD BOLT.

(8) SHIMMING, IF NEEDED, SHALL BE LOCATED BETWEEN THE CONCRETE FOUNDATION AND POLE.

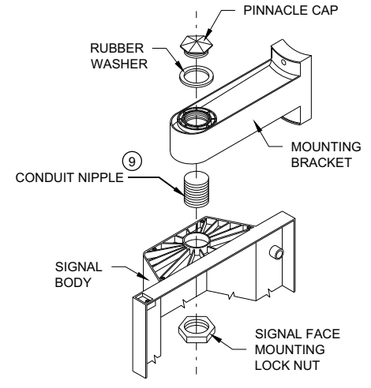
(9) USE 1 ½" ID NIPPLES ZINC-COATED RIGID METAL CONDUIT, LONG ENOUGH TO ACCOMMODATE FULL DEPTH THREADING INTO THE HEAD MOUNTING LOCK NUT IN ORDER TO TIGHTEN THE FACE, BUT THAT DO NOT INTERFERE WITH REFLECTOR CLOSURE. THREAD THE NIPPLE INTO THE MOUNTING BRACKET/ELBOW UNTIL TIGHT. USE APPROVED PINNACLE TYPE HARDWARE FROM A DEPARTMENT APPROVED MANUFACTURER TO CLOSE THE UNUSED 1 ½" OPENING IN SIGNAL FACES AND BRACKET ENDS.



TYPICAL MOUNTING OF BACK TO BACK 3 AND 5 SECTION SIGNAL FACES



TYPICAL MOUNTING OF 3 SECTION SIGNAL FACE



SIGNAL FACE MOUNTING DETAIL
(BANDED)

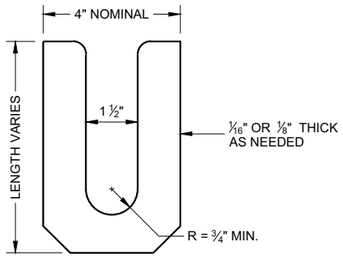
TYPE 4 POLE MOUNTING CONFIGURATION

POLE MOUNTINGS FOR TRAFFIC SIGNALS AND LIGHTING UNITS, TYPE 4

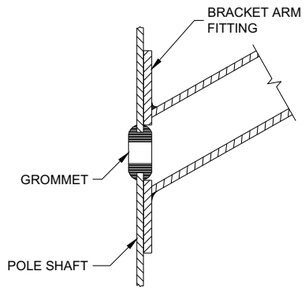
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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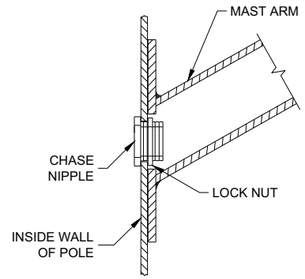
SDD 09E01 - 15c
SDD 09E01 - 15c



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.

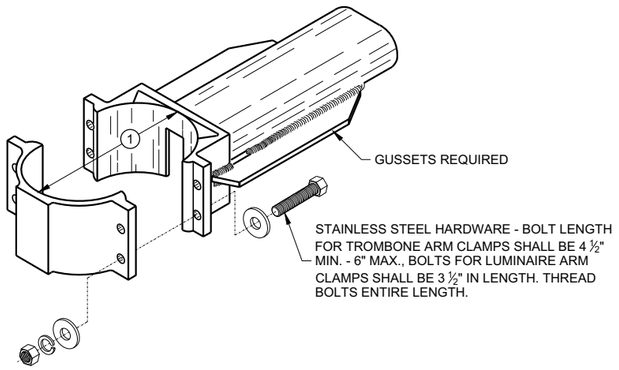
(1) 4.5" I.D. FOR LUMINAIRE MAST ARM CLAMP. 6.625" I.D. FOR TROMBONE MAST ARM CLAMP.

(2) INDIVIDUAL BASE PLATE ANCHOR ROD COVERS. (4 REQUIRED)

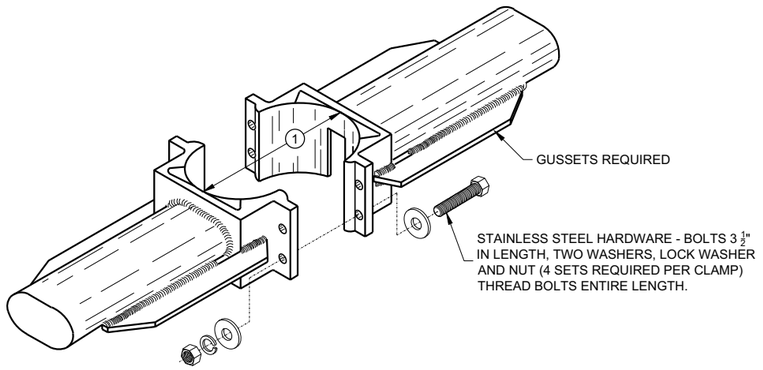
(3) BASE PLATE SLOTTED TO ACCEPT 11" THROUGH 12" BOLT CIRCLE USING 1" DIAMETER ANCHOR RODS.

(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.

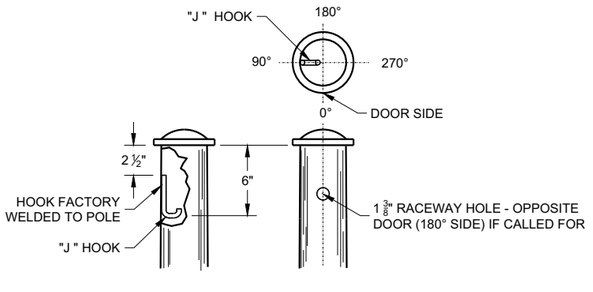
SHIMS SHALL BE LONG ENOUGH AND WIDE ENOUGH TO COMPLETELY COVER THE AREA UNDER THE LENGTH AND WIDTH OF THE BASE MOUNTING FLANGE.



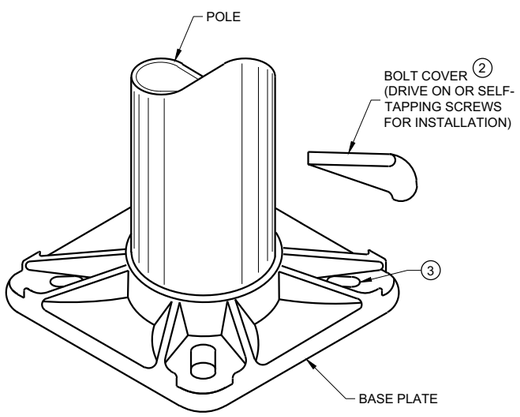
TYPICAL TROMBONE MAST ARM AND SINGLE LUMINAIRE MAST ARM MOUNTING CLAMP



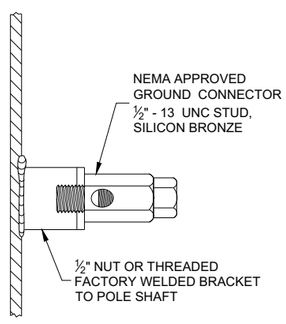
TYPICAL LUMINAIRE MAST ARM (DOUBLE) MOUNTING BRACKETS

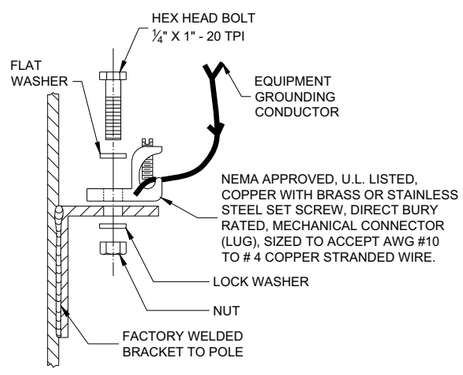


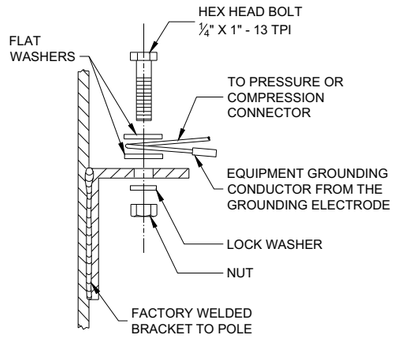
TYPICAL "J" HOOK LOCATION



BASE PLATE







TYPICAL GROUNDING CONNECTIONS
NUT, BOLT AND WASHERS SHALL BE STAINLESS STEEL

HARDWARE DETAILS FOR POLE MOUNTING

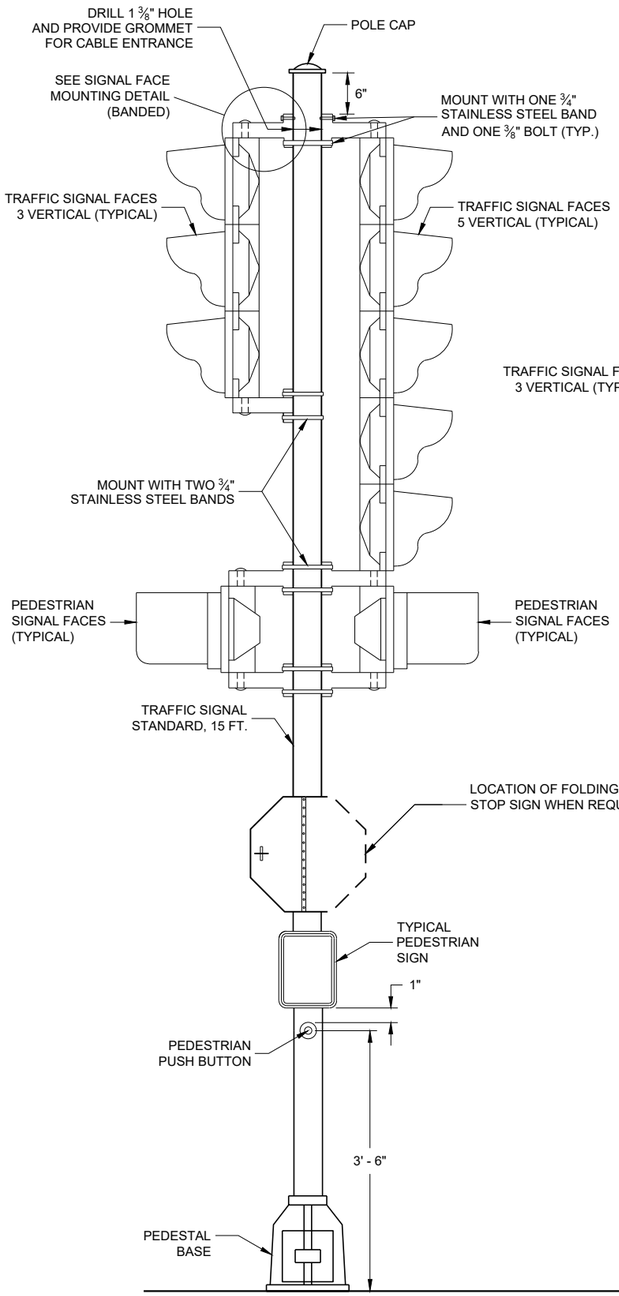
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2018
DATE

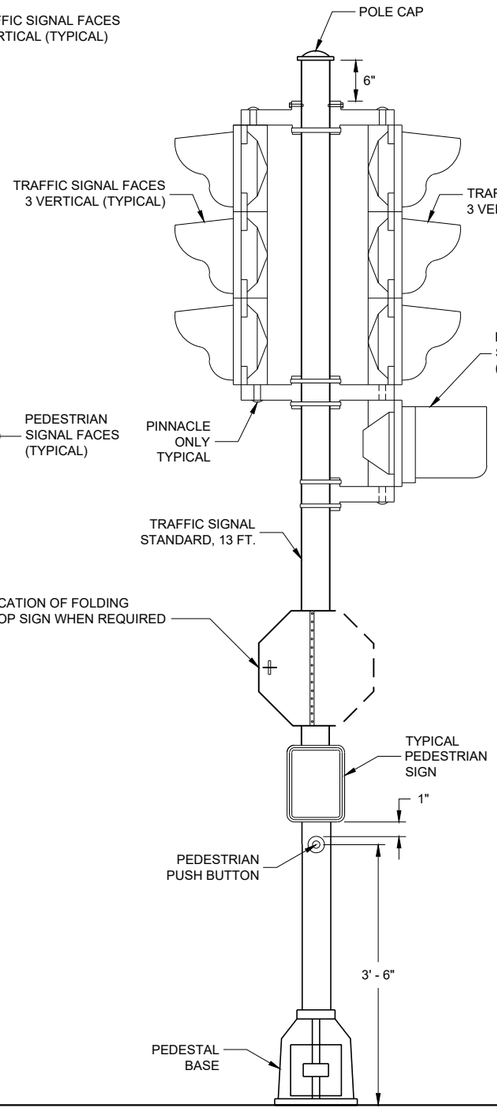
/S/ Ahmet Demirbilek
STATE ELECTRICAL ENGI 287

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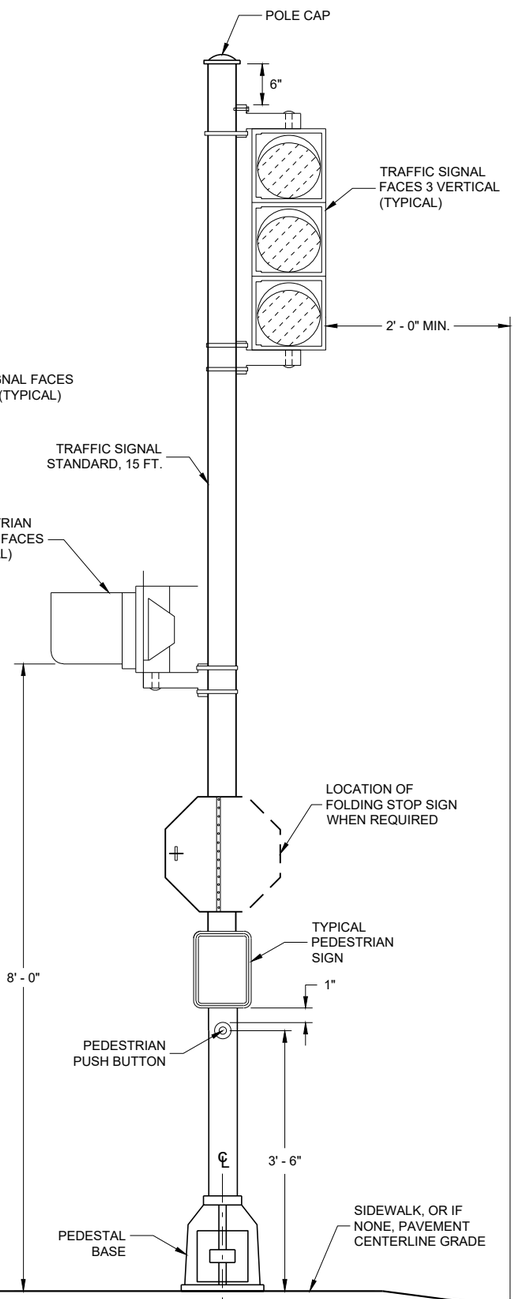
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SDD 09E01 - 15g



TRAFFIC SIGNAL STANDARD - 15 FT.



TRAFFIC SIGNAL STANDARD - 13 FT.



TRAFFIC SIGNAL TANDARD - 15 FT.
3M MOUNTING (TYPICAL)

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

SEE THE SIGNAL PLAN FOR REQUIRED SIGNAL FACE SIZES.

ALL PEDESTAL BASES SHALL BE MOUNTED ON CONCRETE BASE - TYPE 1.

FOR APPROVED MOUNTING HARDWARE, SEE THE CONTRACT SPECIAL PROVISIONS.

POLYCARBONATE MOUNTING BRACKETS SHALL BE USED.

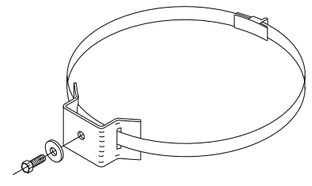
LENGTH AND LOCATION OF TRAFFIC SIGNAL STANDARDS SHALL BE AS SHOWN ON THE PLANS.

OPTICALLY PROGRAMMED SIGNAL FACES SHALL BE MASKED IN ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS, AND UNDER THE DIRECTIONS OF THE REGION TRAFFIC ENGINEER.

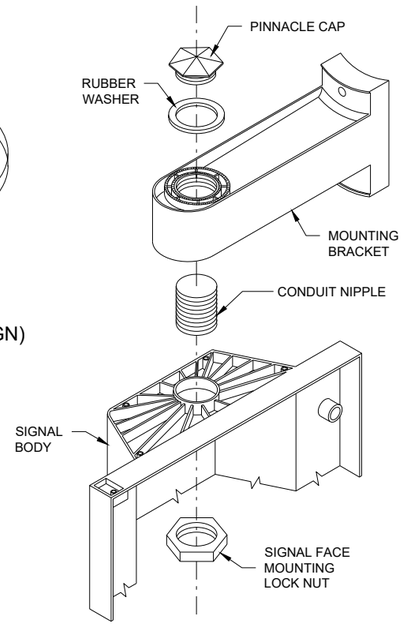
FOLDING STOP SIGNS SHALL BE IN ACCORDANCE WITH THE MUTCD AND/OR THE LATEST WISCONSIN SUPPLEMENT. THE SIGNS SHALL BE SIZED AND LOCATED AS CALLED FOR IN IN THE PLANS.

PEDESTRIAN SIGNS SHALL BE AS DESIGNATED IN THE PLANS.

FURNISH AND INSTALL VENTILATED, CAST, METALLIC (ALUMINUM ALLOY) CAPS. FASTEN CAPS WITH ONE (1) 1/4" X 3/4" - 20 TPI STAINLESS STEEL, HEX HEAD BOLT.



TYPICAL SIGN MOUNTING BAND
(TOP AND BOTTOM OF SIGN)



SIGNAL FACE MOUNTING DETAIL (BANDED)

TRAFFIC SIGNAL STANDARD POLY BRACKET MOUNTINGS (TYPICAL) 13 FT. OR 15 FT.

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
2/28/2013
DATE
/S/ Ahmet Demirbilek
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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.

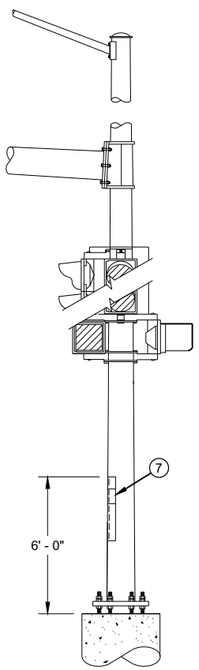
(6) FACTORY WELDED "J" HOOK FOR STRAIN RELIEF FOR POLE LUMINAIRE WIRE.

(7) INSTALL STRUCTURAL IDENTIFICATION PLAQUES.

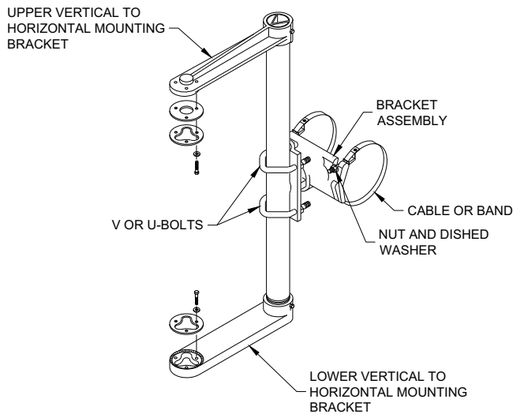
STRUCTURAL IDENTIFICATION PLAQUES SHALL BE PLACED ON THE POLES IN THE SAME DIRECTION AS THE ARM.

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.

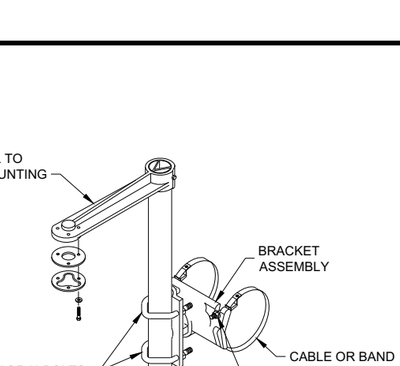


STRUCTURAL IDENTIFICATION PLAQUE PLACEMENT



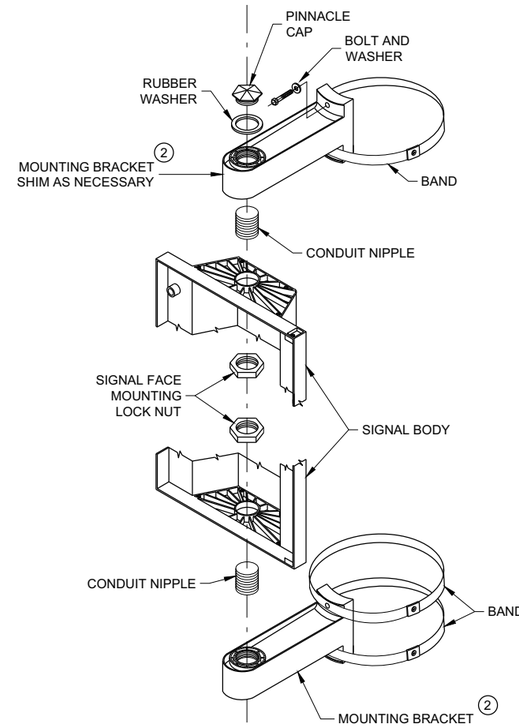
SIGNAL FACE MOUNTING BRACKET DETAIL FOR MONOTUBE ARM

(MOUNT PER MANFACTURER'S RECOMMENDATION)

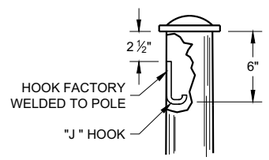


TYPICAL GROUNDING (5) CONNECTIONS

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

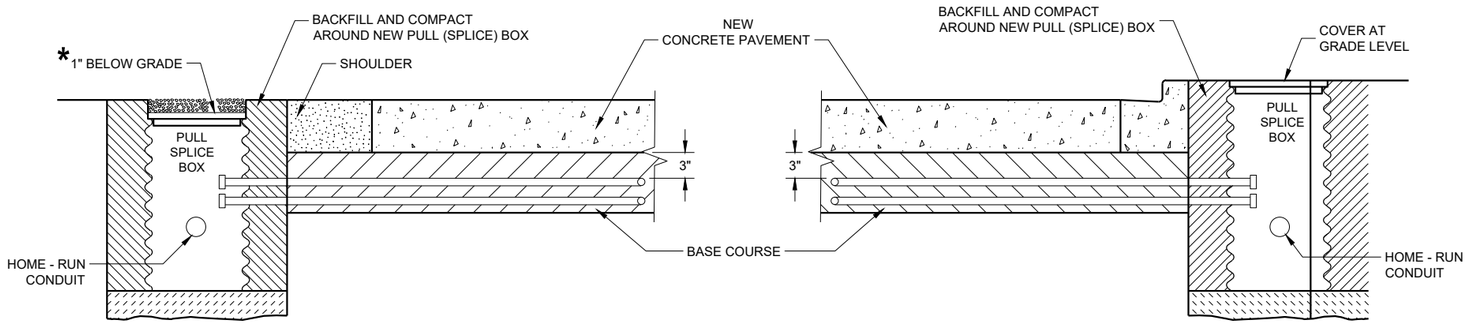
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
August 2020 — DATE
/S/ Ahmet Demirbilek — STATE ELECTRICAL ENGINEER

FHWA

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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.

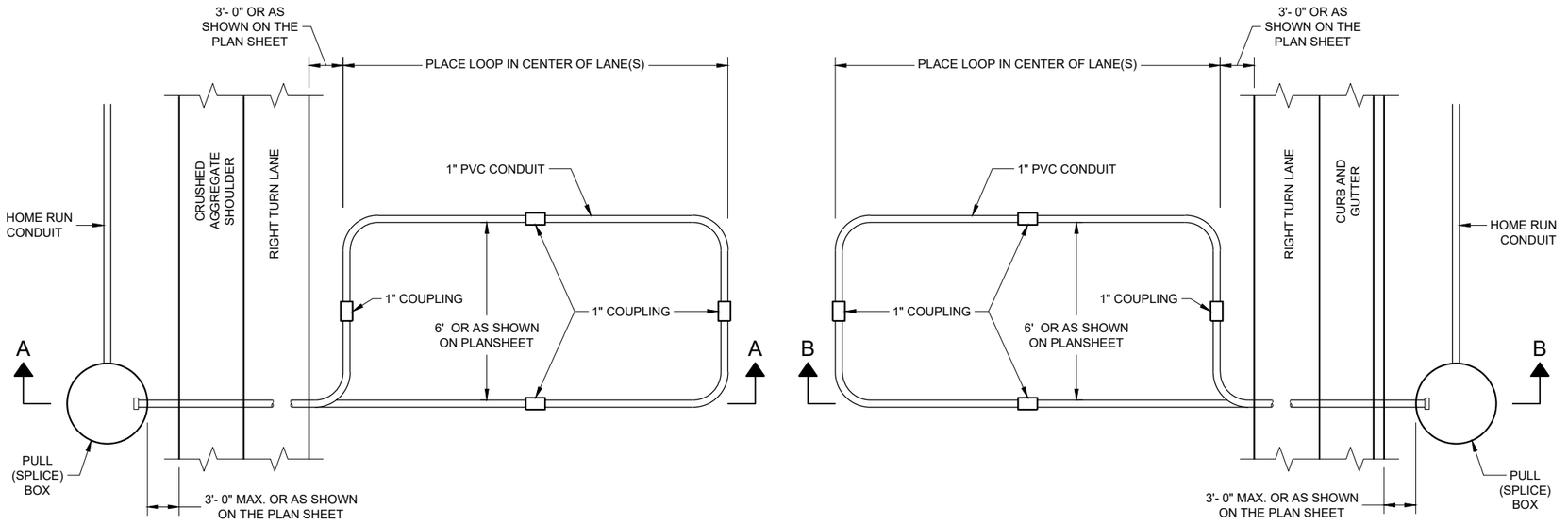
THE #12 AWG LOOP WIRE IN THE PULL (SPLICE) BOX SHALL BE HAND TWISTED AT LEAST 3 TWISTS PER FOOT BEFORE BEING SPLICED TO THE LOOP LEAD-IN CABLE.

SPLICES OF LOOP WIRE TO LEAD-IN CABLE SHALL BE MADE ONLY IN PULL (SPLICE) BOXES AT THE SIDE OF THE ROAD.

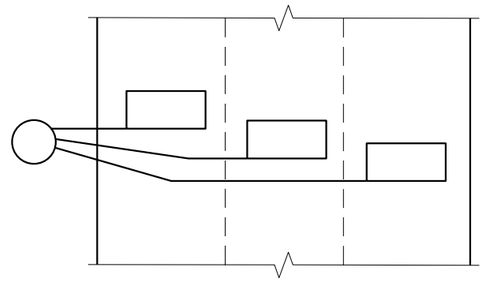
THE #12 AWG LOOP WIRE SHALL BE INSTALLED FROM THE ROADSIDE PULL (SPLICE) BOX, THROUGH THE LOOP CONDUIT, BACK TO THE ROADSIDE PULL (SPLICE) BOX, AND BE INSTALLED IN ONE NON-SPLICED, CONTINUOUS LENGTH.

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
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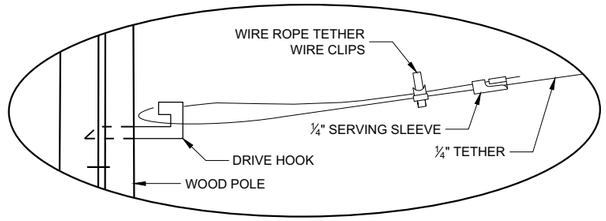
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SDD 09F15 - 04b

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SDD 09F15 - 04b

MINIMUM POLE LENGTHS	POLE BURIAL DEPTHS
25'	5'
30'	6'
35'	7'
40'	8'
45'	9'

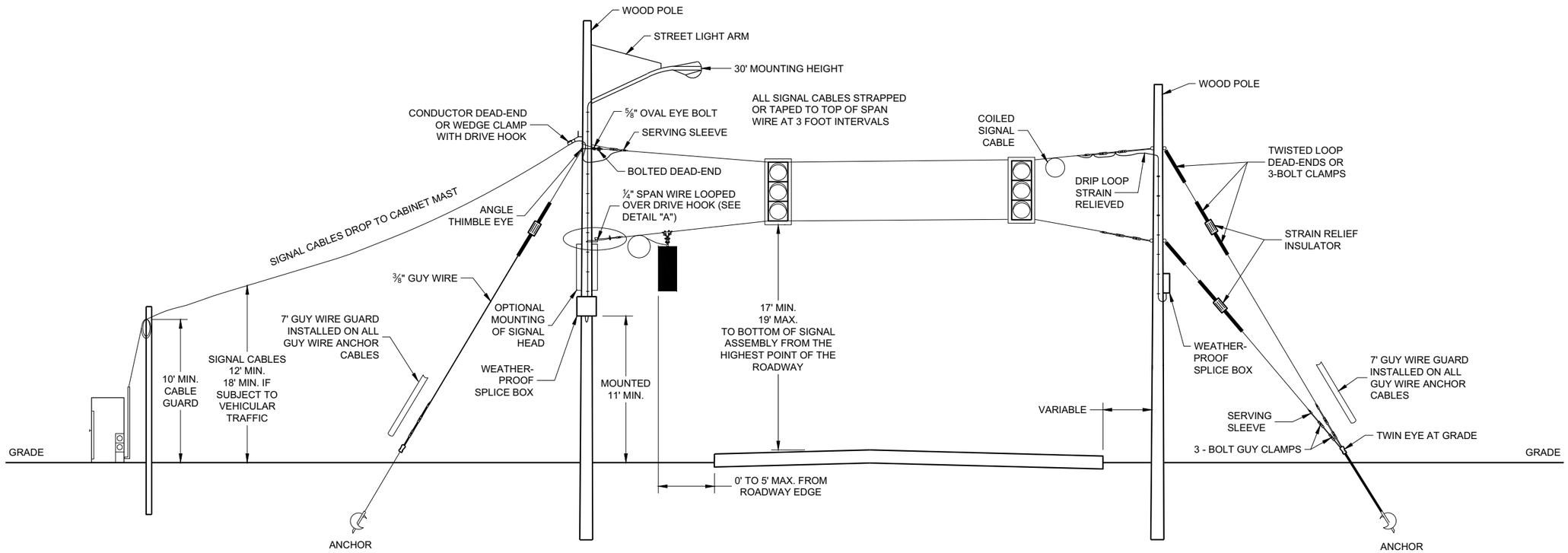


DETAIL "A"

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

1. WOOD POLES SHALL BE CLASS 4. LENGTH DETERMINED BY SIGNAL PLAN.
2. SIGNAL FACES:
   A. ALL SECTIONS SHALL BE 12" AND POLYCARBONATE.
   B. EACH SHALL CONTAIN A 5" WIDE DULL BLACK POLYCARBONATE BACKPLATE.
   C. EACH SHALL BE WIRED FROM THE TOP SIGNAL MOUNTING BRACKET.
   D. NEAR RIGHT SIGNAL FACE SUSPENDED ON THE TETHER (NO BACKPLATE) SHALL NOT BE OVER THE TRAVELED WAY. IF THE POLE IS WITHIN 5 FEET OF THE TRAVELED WAY MOUNT THE SIGNAL FACE ON THE WOOD POLE WITH BACKPLATE.
3. SPAN WIRE:
   A. EACH SPAN WIRE SHALL BE INDIVIDUALLY DOWN GUYED
   B. SIGNAL AND LIGHTING CABLES SHALL ONLY BE ATTACHED TO THE UPPER SPAN WIRE.
   C. THE SIGNAL ASSEMBLY SHALL HAVE A 17' MIN. HEIGHT ABOVE THE ROADWAY. THIS SHALL BE MEASURED AFTER THE SPAN WIRE INSTALLATION IS COMPLETED WITH ALL CABLES AND SIGNAL FACES IN PLACE. MAINTAIN MINIMUM AND MAXIMUM HEIGHTS AS ROADWAY WORK PROGRESSES.



SPAN WIRE
TEMPORARY SIGNALS

SPAN WIRE TEMPORARY TRAFFIC SIGNAL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June 2015
DATE
/S/ Ahmet Demerbilek
STATE ELECTRICAL ENGI 291

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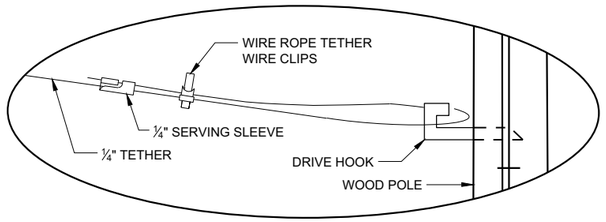
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SDD09G01 - 04a

SDD09G01 - 04a

MINIMUM POLE LENGTHS	CLASS	POLE BURIAL DEPTHS
25'	V	5'
30'	V	6'
35'	IV	7'
40'	IV	8'
45'	IV	9'

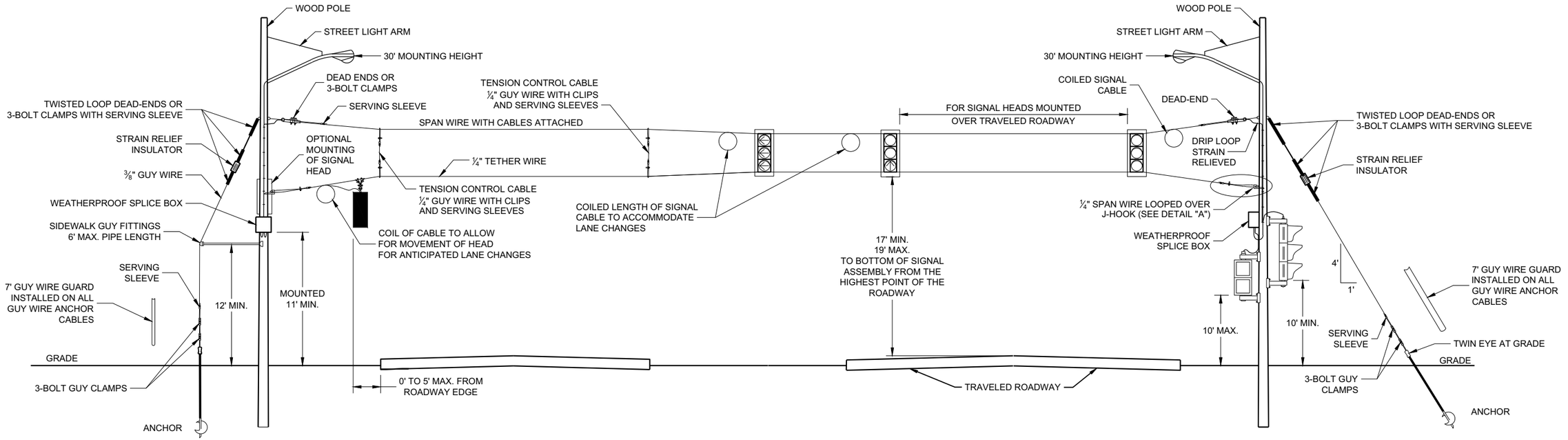


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   E. FAR INDICATION SHALL BE MAINTAINED OVER CENTER OF TRAFFIC LANE.
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SPAN WIRE
TEMPORARY SIGNALS
4 LANE ROADWAYS

SPAN WIRE TEMPORARY TRAFFIC SIGNAL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

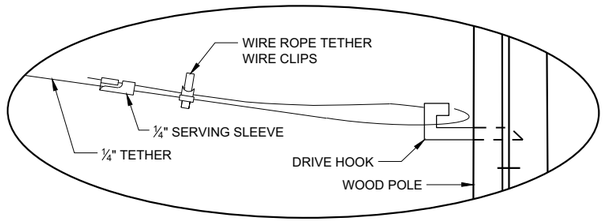
APPROVED
June 2015
DATE
/S/ Ahmet Demerbilek
STATE ELECTRICAL ENGI

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SDD09G01 - 04b

MINIMUM POLE LENGTHS	CLASS	POLE BURIAL DEPTHS
25'	V	5'
30'	V	6'
35'	IV	7'
40'	IV	8'
45'	IV	9'

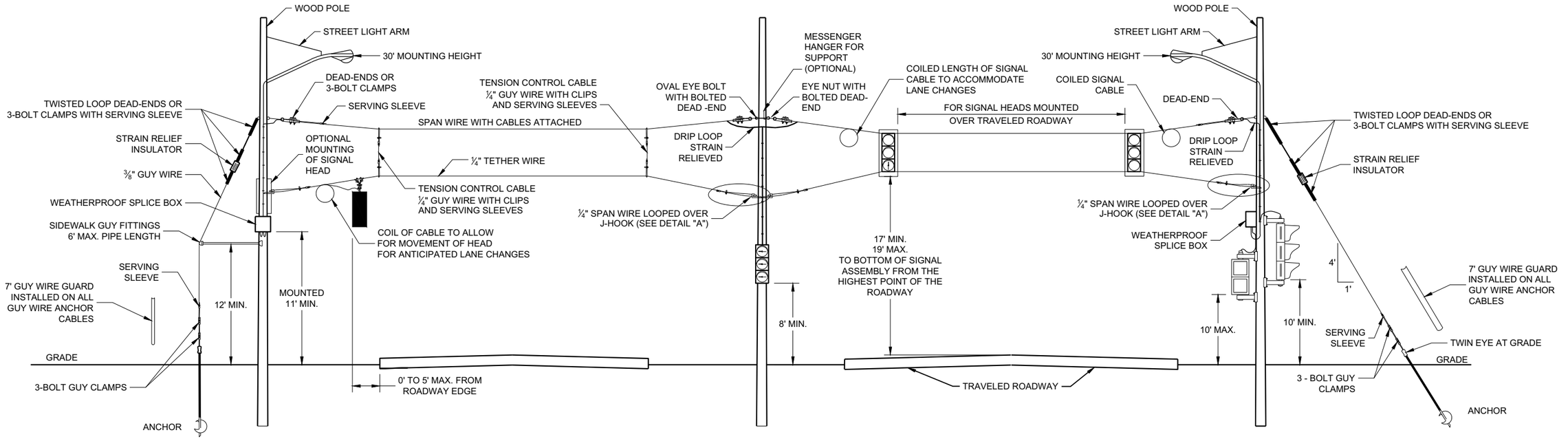


DETAIL "A"

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SPAN WIRE
TEMPORARY SIGNALS
4 LANE ROADWAYS

SPAN WIRE TEMPORARY TRAFFIC SIGNAL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

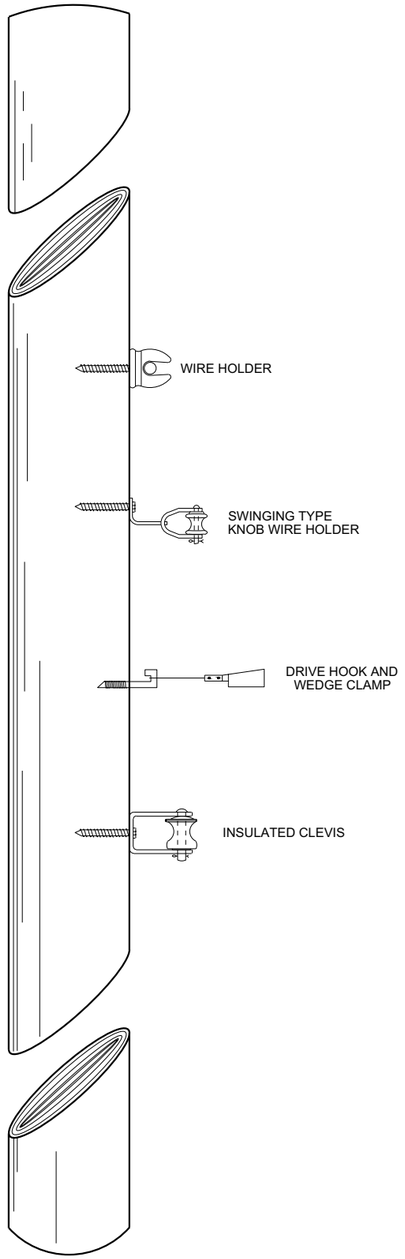
APPROVED
June 2015
DATE

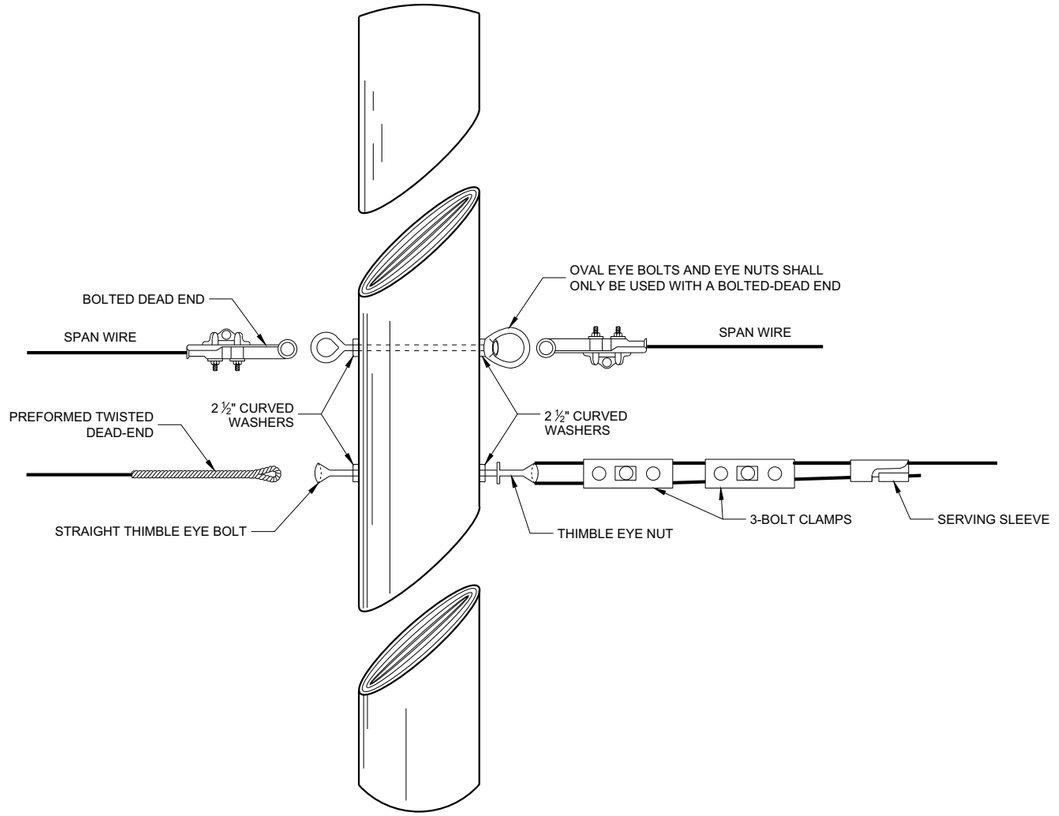
/S/ Ahmet Demerbilek
STATE ELECTRICAL ENGI

FHWA

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SDD09G01 - 04c





SPAN WIRE TEMPORARY TRAFFIC SIGNAL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

June 2015
DATE

/S/ Ahmet Demerbilek
ROADWAY STANDARDS DEVE ENGINEER

FHWA

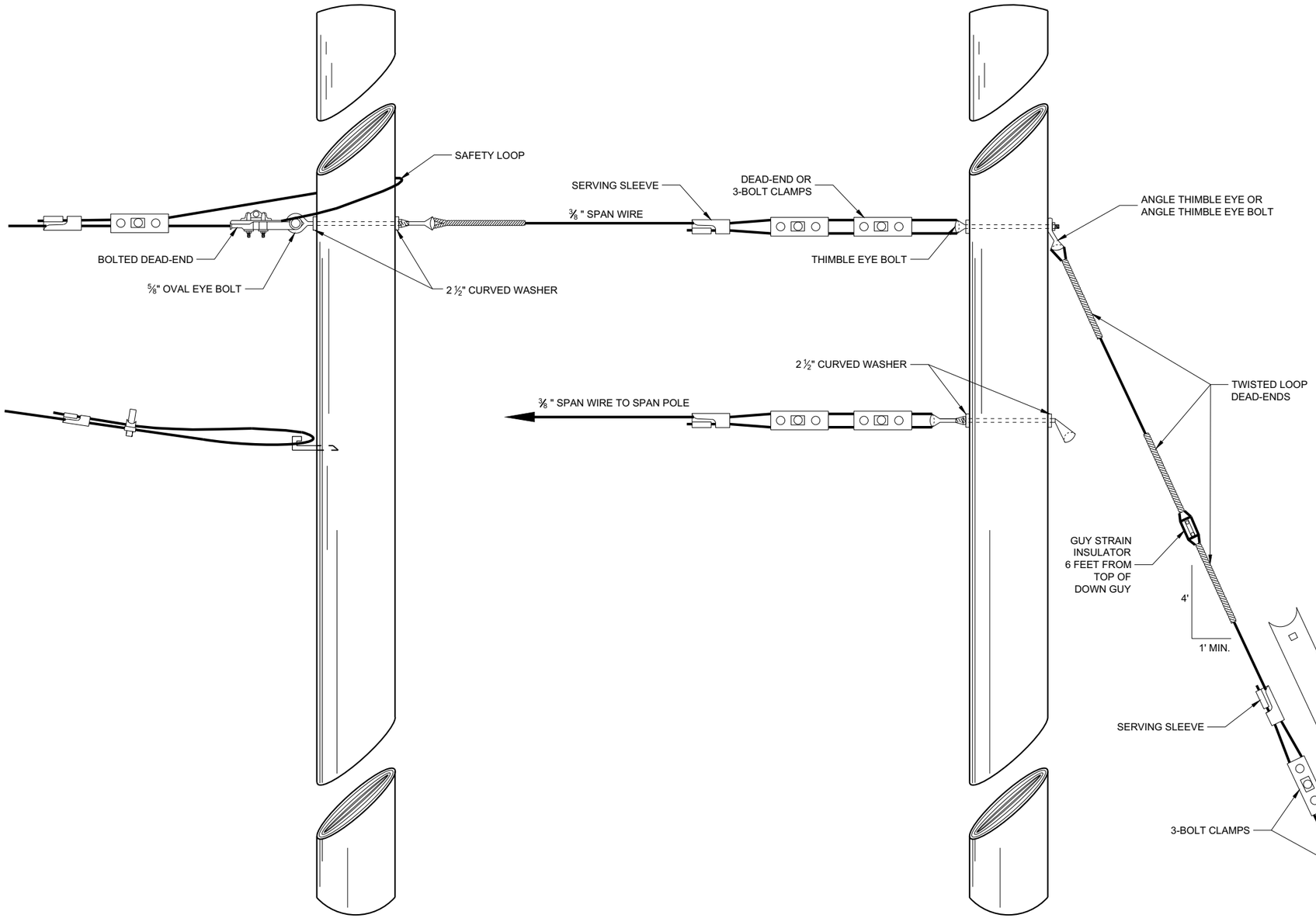
SDD 09G01 - 4d

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SDD 09G01 - 4d

GENERAL NOTES

1. USE ¾" DRILL IN WOOD POLE TO PROVIDE FOR ⅝" BOLTS.
2. SAFETY LOOP REQUIRED ON EACH END OF ALL SPAN WIRES.



SPAN WIRE POLE

GUY POLE

TYPICAL DEAD-ENDINGS OR GUYING

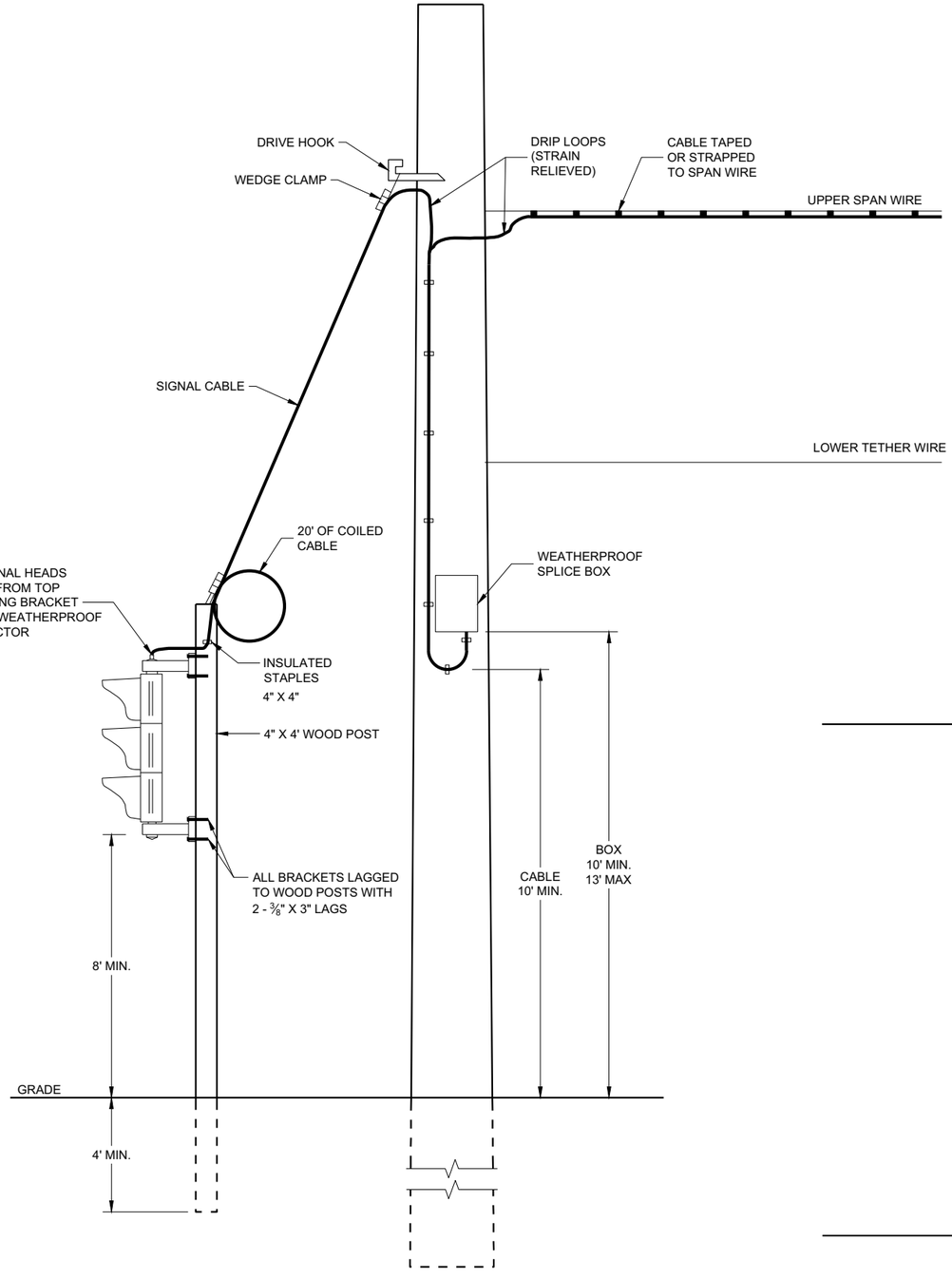
SPAN WIRE TEMPORARY TRAFFIC SIGNAL	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED June 2015 DATE	/S/ Ahmet Demerbilek ROADWAY STANDARDS DEVE ENGINEER
FHWA	295

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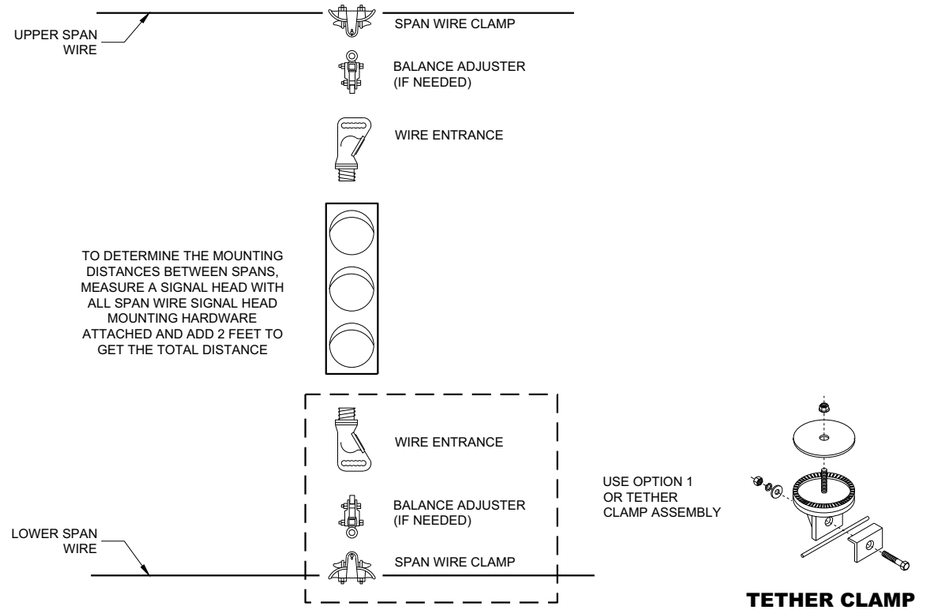
SDD 09G01 - 4e

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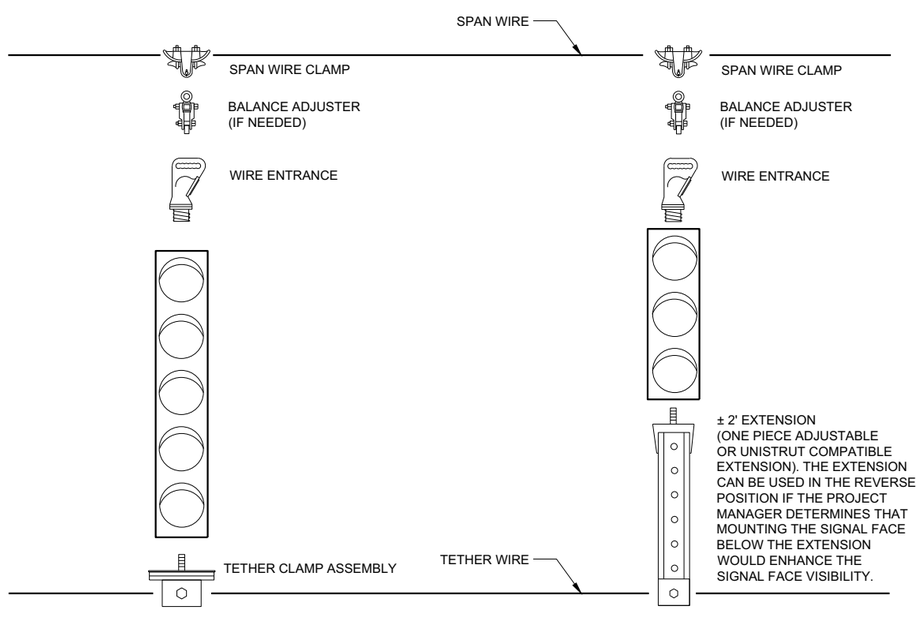
SDD 09G01 - 4e



TYPICAL DROP TO TEMPORARY MOVEABLE SIGNAL



TYPICAL SPAN WIRE MOUNTING HARDWARE



5 SECTION VERTICAL WITH 3 SECTION VERTICAL ON ONE SPAN WIRE

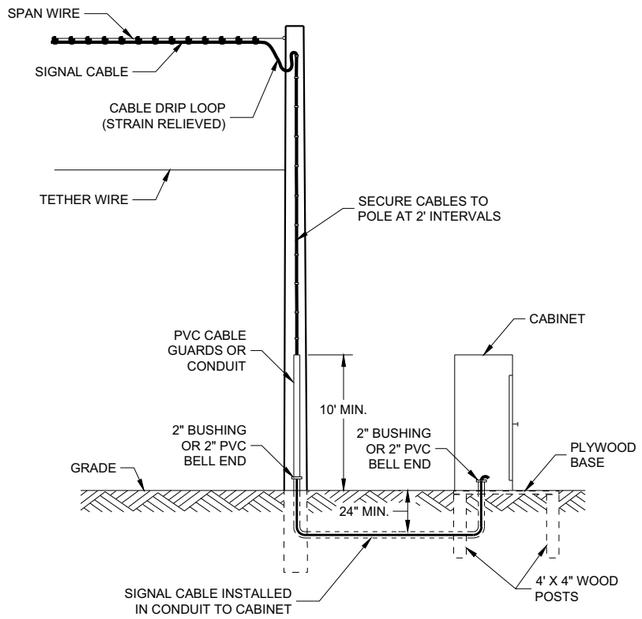
SPAN WIRE TEMPORARY TRAFFIC SIGNAL

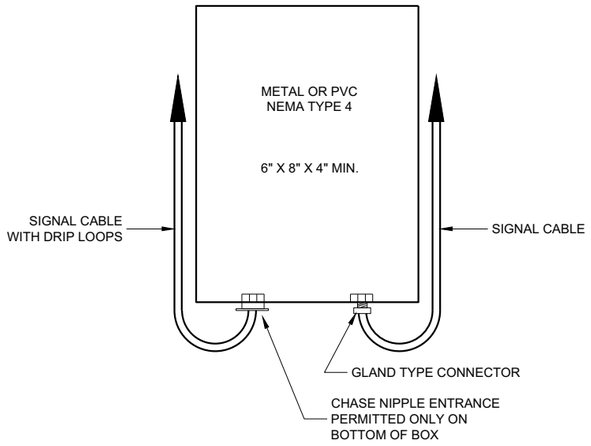
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June 2015 — DATE
/S/ Ahmet Demerbilek — ROADWAY STANDARDS DEVE ENGINEER
296

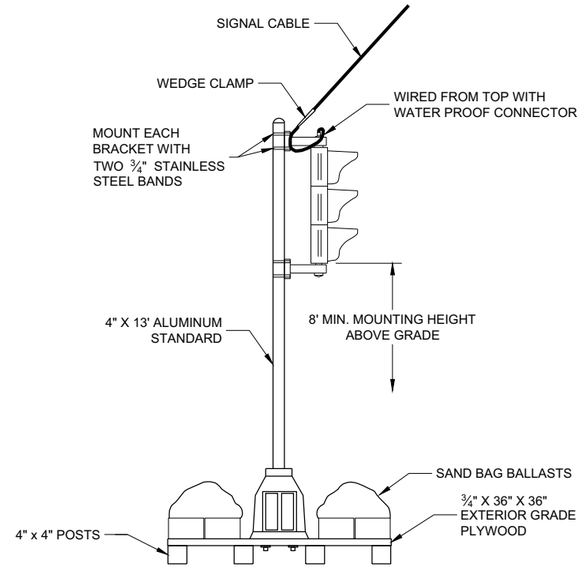
FHWA

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SDD 09G01 - 4f

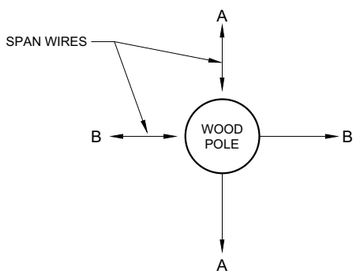




SPLICE BOX

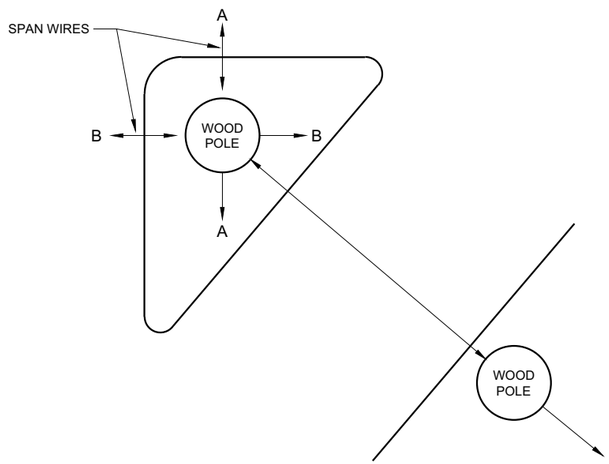


TYPICAL SKID TYPE TEMPORARY

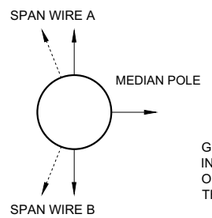


ALL DOWN OR SIDEWALK GUYS
SHALL BE INSTALLED IN THE
OPOSITE DIRECTION OF THE
STRAIN OF THE SPAN WIRE

CORNER POLES



ISLAND POLES



GUY AWAY FROM
INTERSECTION OR IN
OPPOSITE DIRECTION OF
THE SPAN LOADING

MEDIAN POLES

SPAN WIRE TEMPORARY TRAFFIC SIGNAL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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June 2015
DATE

/S/ Ahmet Demerbilek
ROADWAY STANDARDS DEVE ENGINEER

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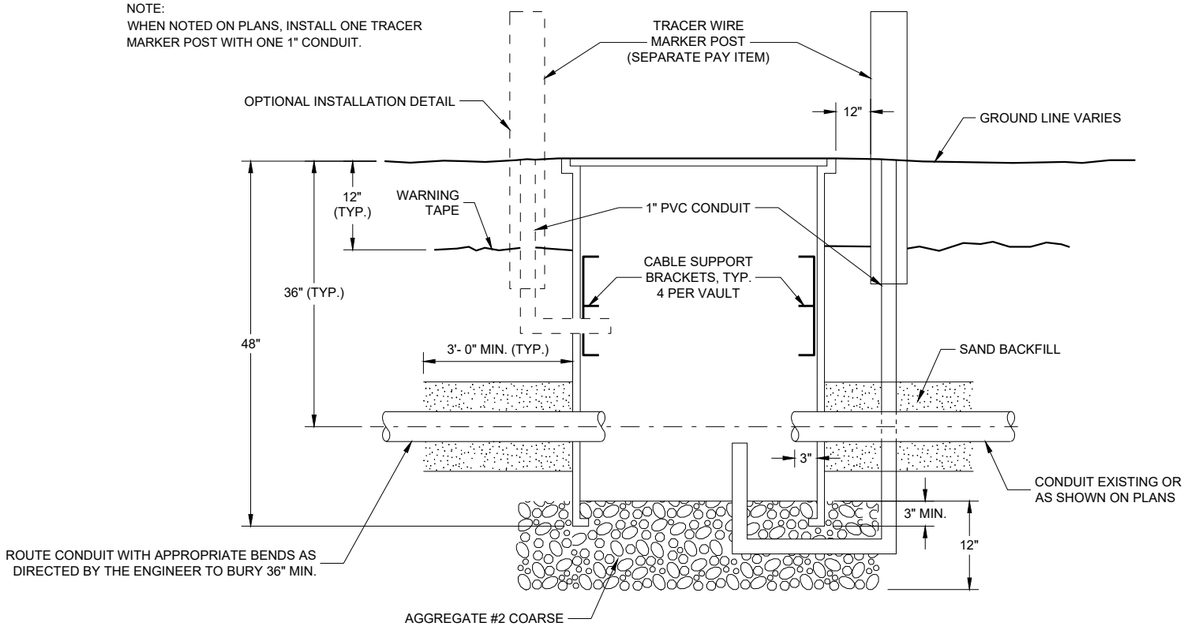
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SDD 09G01 - 4g

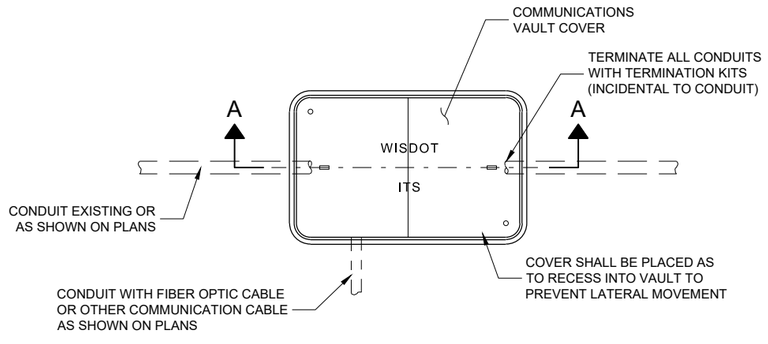
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SDD 09G01 - 4g

NOTE:
WHEN NOTED ON PLANS, INSTALL ONE TRACER MARKER POST WITH ONE 1" CONDUIT.



SECTION A - A



PLAN VIEW

COMMUNICATIONS VAULT TYPE 1

GENERAL NOTES

PROVIDE VAULT WITH OPEN BASE.

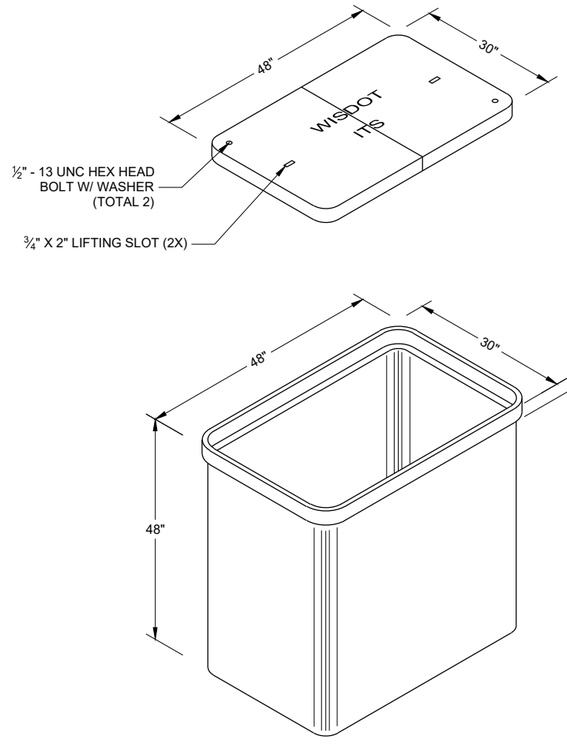
COVER SHALL HAVE A MINIMUM DESIGN LOAD OF 15,000 LBS AND SHALL LOCK.

ALL OPENINGS IN STRUCTURE MUST BE MACHINED AT TIME OF FABRICATION, OR PUNCH DRIVEN AT TIME OF PLACEMENT.

VAULTS SHALL BE OF ONE-PIECE CONSTRUCTION. TWO-PIECE/STACKABLE VAULTS WILL NOT BE PERMITTED.

FIELD PLACEMENT OF COMMUNICATIONS VAULTS SHALL BE AS DIRECTED BY THE ENGINEER.

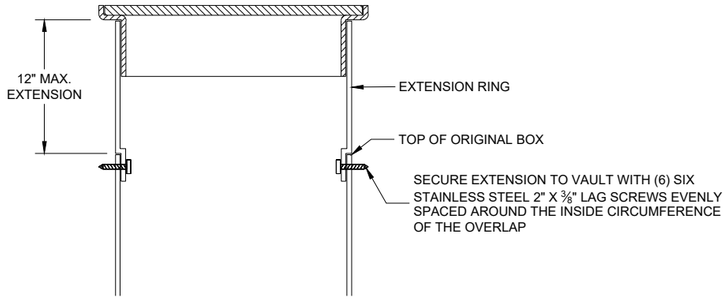
FIBER TRACER MARKER POSTS SHALL BE CONSTRUCTED WITH HIGH-IMPACT PLASTIC MATERIAL WHICH IS FADE RESISTANT AND UV STABLE. ALL HARDWARE SHALL BE STAINLESS STEEL AND CONTAIN A MINIMUM OF FIVE STANDARD TERMINALS.



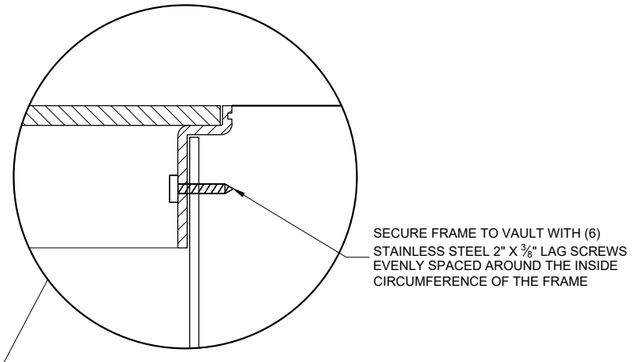
ISOMETRIC VIEW

COMMUNICATION VAULT TYPE 1	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED May 2017 DATE	/S/ Ahmet Demirbilek STATE ELECTRICAL ENGI 298
FHWA	

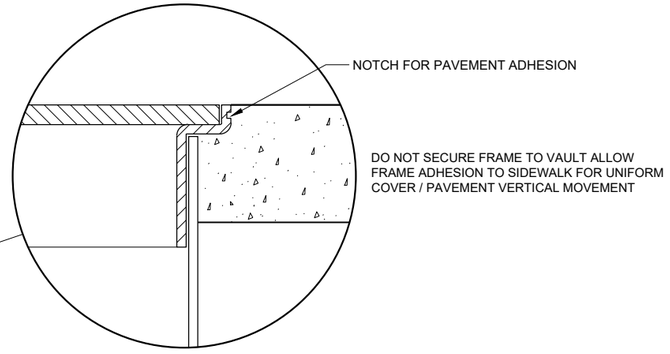
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SDD 09H09 - 02



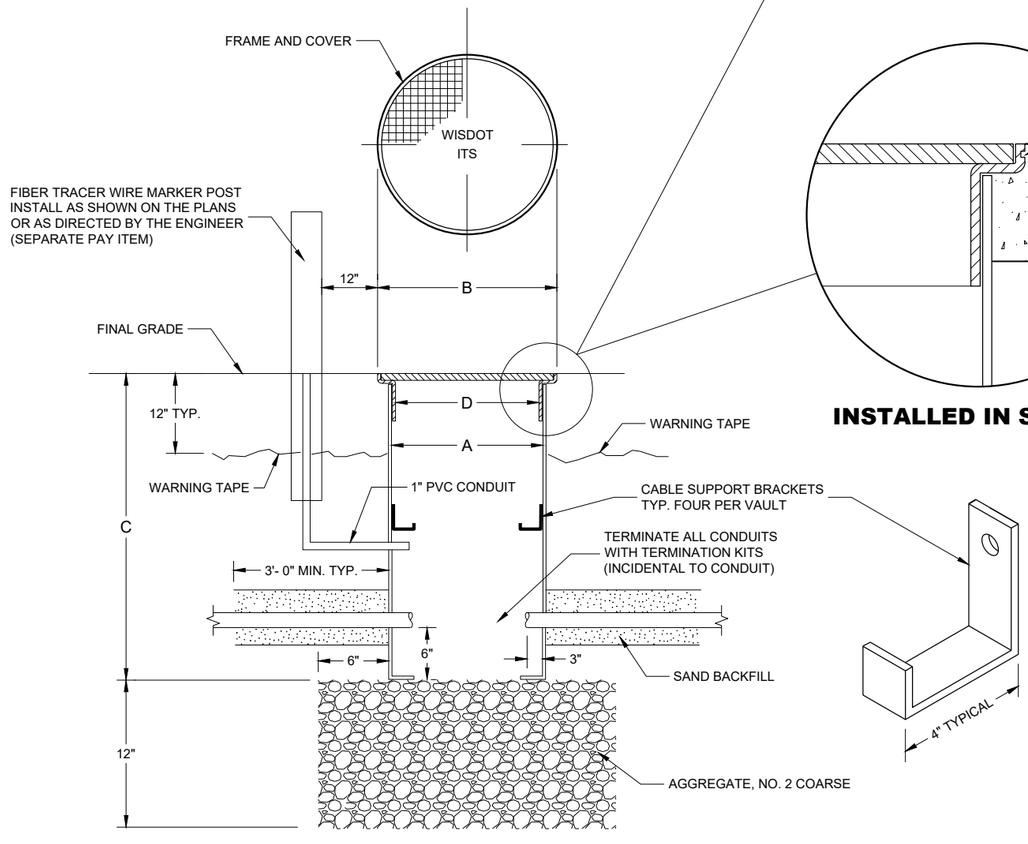
VAULT EXTENSION



INSTALLED IN SOD OR CRUSHED AGGREGATE



INSTALLED IN SIDEWALK



ROUND COMMUNICATIONS VAULT

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

ALL VAULTS, FRAMES AND COVERS SHALL BE SUITABLE FOR TIER 15 LOADING AS SPECIFIED IN ANSI/SCTE 77.

PROVIDE AN OPENING FOR TOOL ASSISTED COVER REMOVAL NOT LARGE ENOUGH TO PERMIT PASSAGE OF A SPHERE MORE THAN 1/2" DIAMETER.

ENSURE COVER SURFACE IS SKID RESISTANT WITH A COEFFICIENT OF FRICTION OF AT LEAST 0.5 AND VERTICAL SURFACE DISCONTINUITIES LESS THAN ¼".

COVER SHALL BE MAGNETICALLY LOCATABLE.

VAULTS AND EXTENSIONS ARE TRIMMABLE FOR CUSTOM LENGTHS. TRIMMED PIECES SHALL MAINTAIN A UNIFORM LENGTH.

ENTRANCE HOLES INTO VAULT SHALL BE FIELD CUT AT TIME OF PLACEMENT 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 CABLE IN ANY VAULT UNTIL ITS INSTALLATION HAS BEEN INSPECTED AND ACCEPTED BY THE ENGINEER.

VAULT EXTENSION MAY ONLY BE USED IF DIRECTED BY THE ENGINEER.

CABLE SUPPORT BRACKETS SHALL BE STAINLESS STEEL AND FASTENED TO THE SIDE WALL WITH ⅜" STAINLESS STEEL BOLT AND NUT. BRACKETS SHALL BE LOCATED AS DIRECTED BY THE ENGINEER.

FIBER TRACER MARKER POSTS SHALL BE CONSTRUCTED WITH HIGH-IMPACT PLASTIC MATERIAL WHICH IS FADE RESISTANT AND UV STABLE. ALL HARDWARE SHALL BE STAINLESS STEEL AND CONTAIN A MINIMUM OF FIVE STANDARD TERMINALS.

TABLE OF NOMINAL DIMENSIONS AND WEIGHTS

DIMENSION IN INCHES		COMMUNICATIONS VAULT
VAULT DIAMETER (INSIDE)**	A	36
VAULT OVERALL OUTSIDE DIAMETER	B	39
VAULT LENGTH	C	42
FRAME OPENING	D	34 ½
WEIGHT IN POUNDS*		
COVER		95
VAULT ONLY		85

* THE ACTUAL WEIGHT OF THE COVER AND VAULT MAY VARY NOT TO EXCEED 100 LBS FOR THE COVER AND 100 LBS FOR THE VAULT ONLY.

** DIAMETER VARIES FROM TOP TO BOTTOM WITH THE DIAMETER LARGER AT THE BOTTOM TO PREVENT FROST HEAVE.

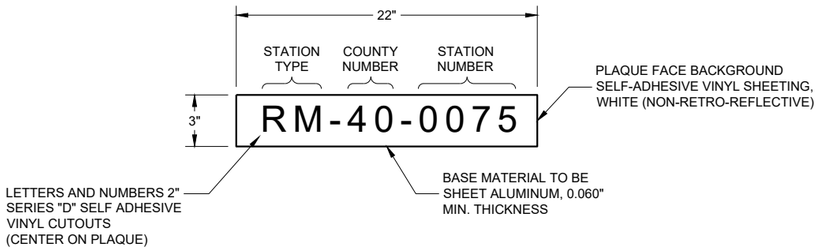
COMMUNICATION VAULT TYPE - ROUND

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

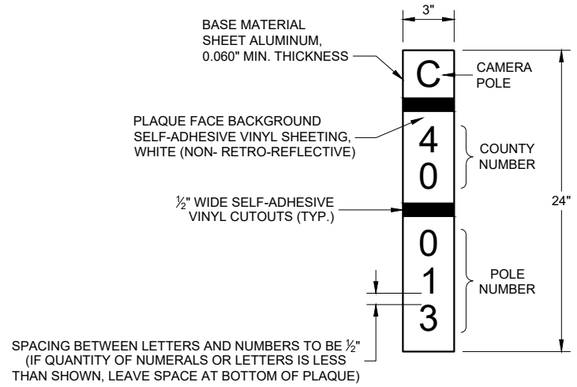
APPROVED
May 2017
DATE

/S/ Ahmet Demirbilek
STATE ELECTRICAL ENGI 299

FHWA



CONTROL CABINET IDENTIFICATION PLAQUE DETAIL



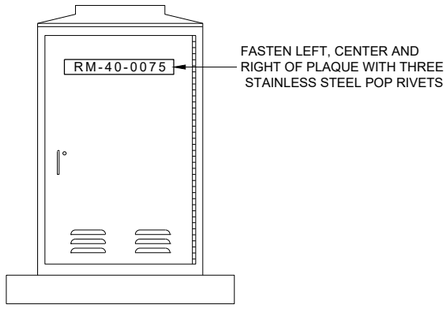
POLE IDENTIFICATION PLAQUE DETAIL

GENERAL NOTES

1. TWO PLAQUES PER CABINET REQUIRED ON CONTROL CABINET.
2. FASTEN ONE PLAQUE ON FRONT DOOR, UPPER HALF.
3. FASTEN ONE PLAQUE ON SIDE FACING LOCAL STREET. IF NO LOCAL STREET NEARBY, OR IF SUCH LOCATION COINCIDES WITH LOCATION OF PLAQUE IN NOTE 2 , FASTEN PLAQUE ON REAR OF CABINET, UPPER HALF.
4. COUNTY NUMBER NOT REQUIRED ON RAMP METER CABINETS.

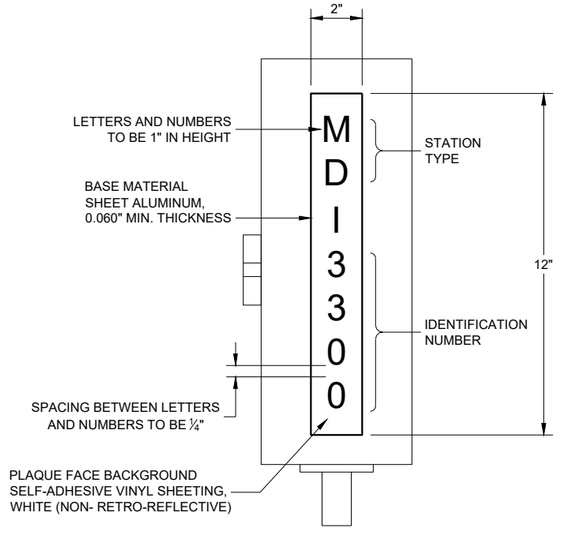
LEGEND STATION TYPE

RM - RAMP METER
CCTV - CLOSED CIRCUIT TELEVISION
ATR - AUTOMATIC TRAFFIC RECORDER
SDS - SYSTEM DETECTOR STATION
MD - MICROWAVE DETECTOR



CONTROL CABINET IDENTIFICATION PLAQUE REQUIREMENTS AND PLACEMENTS

(TYPICAL ALL CONTROL CABINETS)



MICROWAVE DETECTOR FIELD CABINET IDENTIFICATION PLAQUE DETAIL

IDENTIFICATION PLAQUE REQUIREMENTS AND PLACEMENTS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

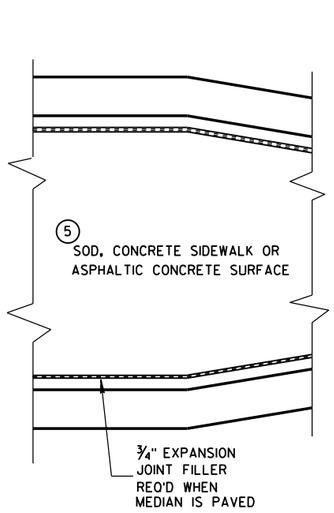
APPROVED
September 2014
DATE
/S/ Ahmet Demirbilek
STATE ELECTRICAL ENGI 300
FHWA

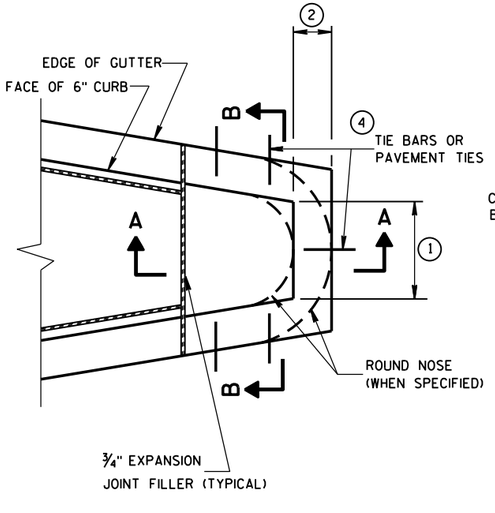
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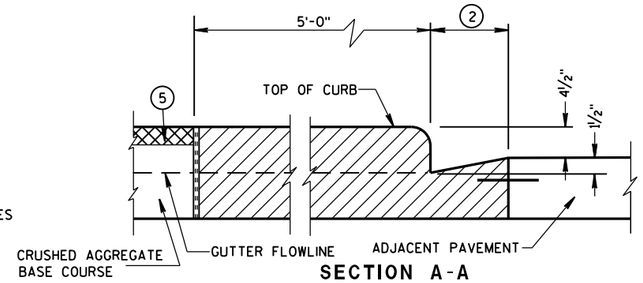
SDD 09H11 - 01

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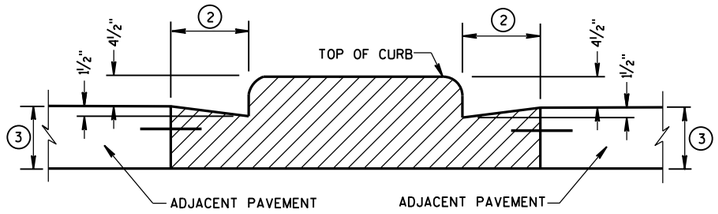
SDD 09H11 - 01







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.

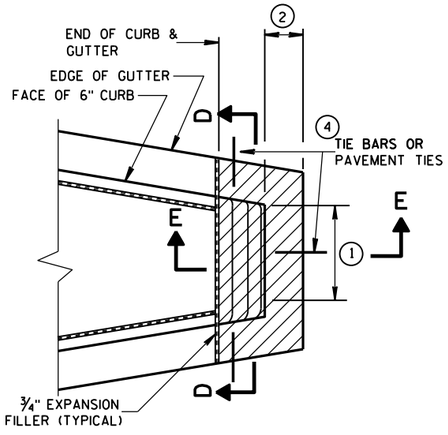
(2) ASPHALTIC CONCRETE PAVEMENT OVER NEW OR EXISTING CONCRETE BASE COURSE.

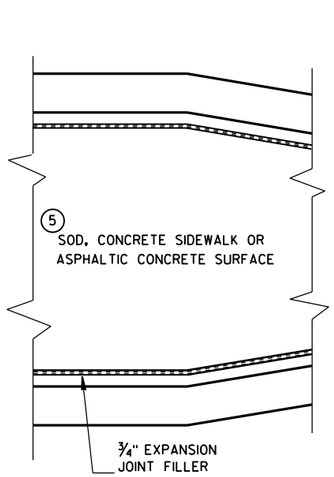
(3) ASPHALTIC CONCRETE PAVEMENT OVER CRUSHED AGGREGATE BASE COURSE.

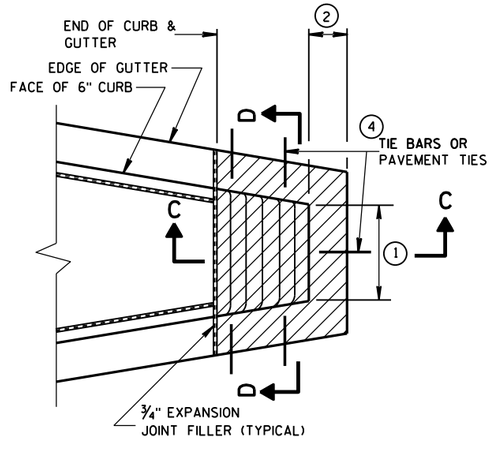
(4) TIE BARS OR PAVEMENT TIES REQUIRED IN NEW CONCRETE PAVEMENT OR CONCRETE BASE COURSE. TIE BARS SHALL BE NO. 4 X 2'-0" SPACED AT 2'-0" C-C.

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.

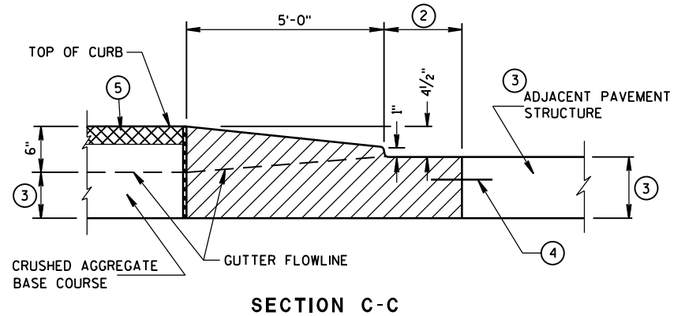
(5) SURFACE TYPE AND DETAILS ARE SHOWN ELSEWHERE IN THE PLAN.



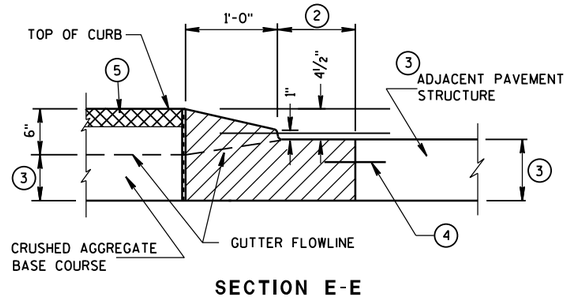




CONCRETE MEDIAN SLOPED NOSE TYPE 1

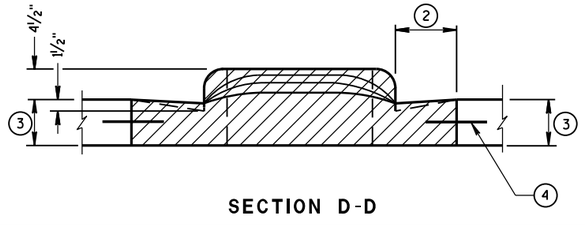


SECTION C-C



SECTION E-E

CONCRETE MEDIAN SLOPED NOSE TYPE 2



SECTION D-D

CONCRETE MEDIAN NOSE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

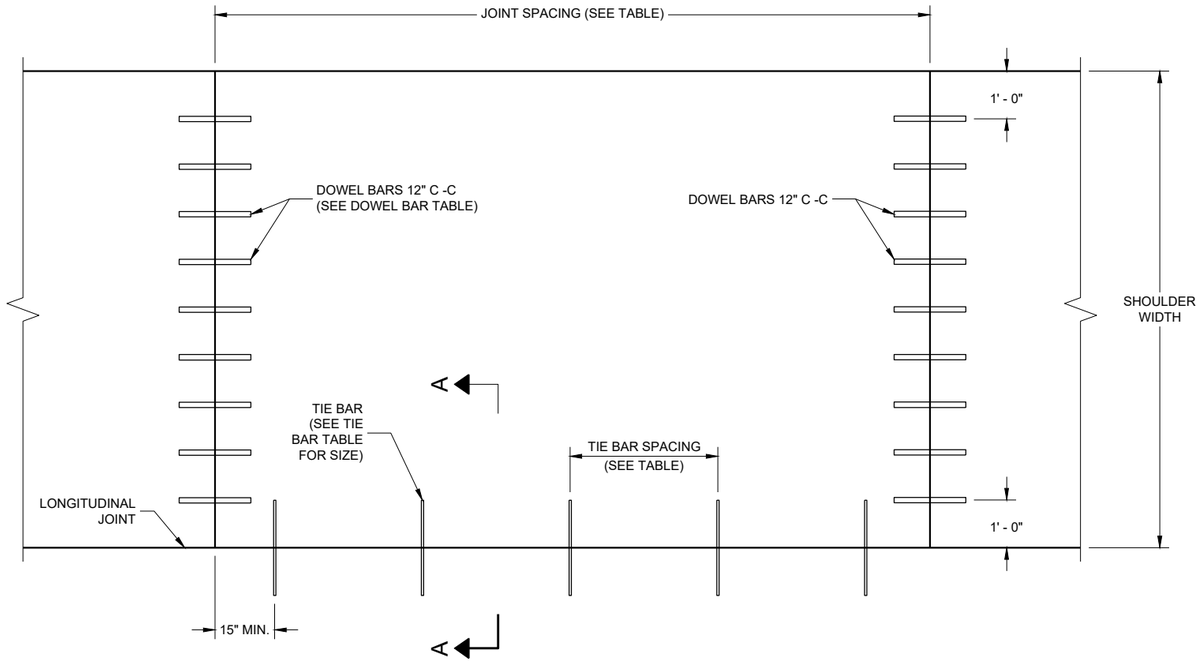
APPROVED
6/8/2006
DATE
/S/ Jerry H. Zogg
ROADWAY STANDARDS DEVELOPMENT ENGINEER
FHWA

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S.D.D. 11 B 2-2

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S.D.D. 11 B 2-2



PLAN VIEW

CONCRETE PAVEMENT SHOULDER

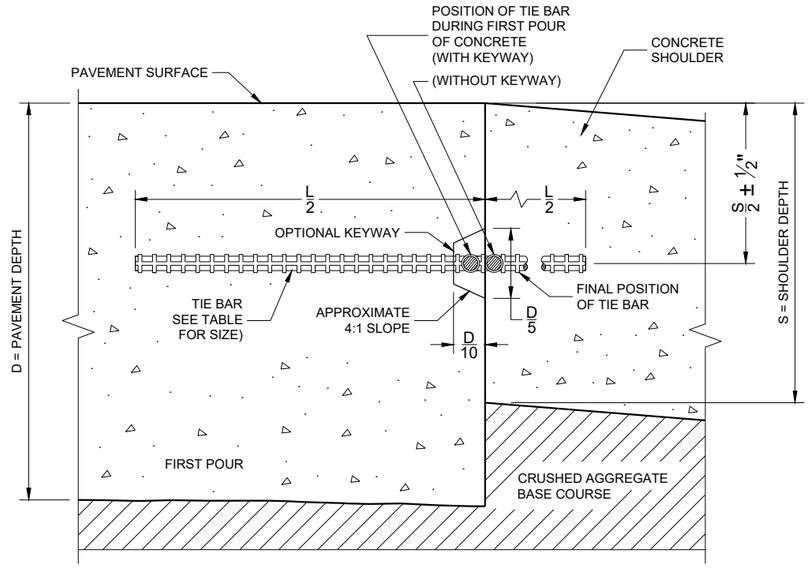
GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS.

TRANSVERSE JOINT DETAILS ARE SHOWN ELSEWHERE IN THE PLAN.

FINISH THE SHOULDER PAVEMENT CONFORMING TO SUBSECTION 415.3.8 OF THE STANDARD SPECIFICATIONS.

TIE BARS SHALL CONFORM TO SUBSECTION 505.2.4 OF THE STANDARD SPECIFICATIONS.



SECTION A - A

LONGITUDINAL CONSTRUCTION JOINT

TIE BAR TABLE

PAVEMENT DEPTH (D)	TIE BAR SIZE	TIE BAR LENGTH (L)	MAX. TIE BAR SPACING
<10 ½"	NO. 4	30"	36"
>10 ½"	NO. 5	36"	36"
	NO. 4*	30"	24"**

* SUBSTITUTE BENT BATS AT LONGITUDINAL JOINTS WHEN EQUIPMENT LIMITATIONS DURING CONSTRUCTION WARRANT (e.g. AUXILIARY LANES OR TURN LANES.

** CONFORM TO 15" MINIMUM SPACING FROM TRANSVERSE JOINTS; SPACING BETWEEN TIE BARS WILL BE 30" AT TRANSVERSE JOINTS.

PAVEMENT DEPTH, DOWEL BAR SIZE AND JOINT SPACING TABLE

PAVEMENT DEPTH (D)	DOWEL BAR DIAMETER ***	CONTRACTION JOINT SPACING
6", 6 ½"	NONE	12"
7", 7 ½"	1"	14"
8" & ABOVE	1 ¼"	15"

*** FOR DOWELED CONCRETE SHOULDERS WITH TRAPEZOIDAL CROSS SECTIONS, CHOSE THE APPROPRIATE DOWEL BAR DIAMETER BASED ON THE SMALLER PAVEMENT DEPTH (LIKELY THE OUTSIDE EDGE OF THE SHOULDER). IF USING BASKETS, USE BASKETS FRO THE AVERAGE THICKNESS OF THE CROSS SECTION.

CONCRETE PAVEMENT SHOULDERS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

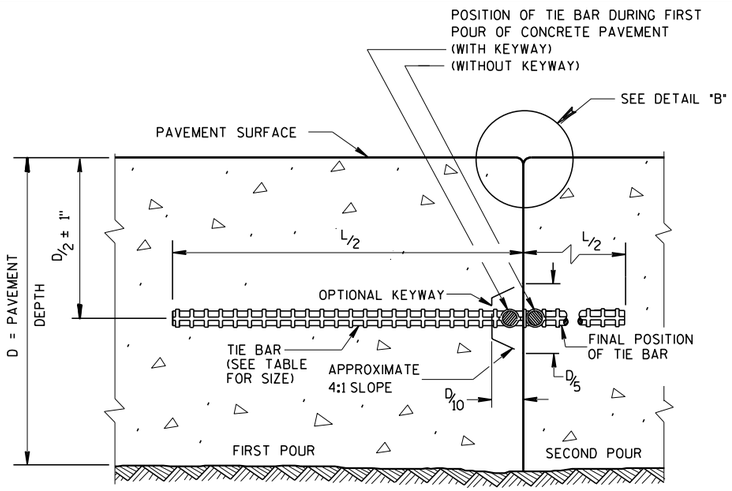
APPROVED
November 2022
DATE

/S/ Peter Kemp
PAVEMENT SUPERVIS

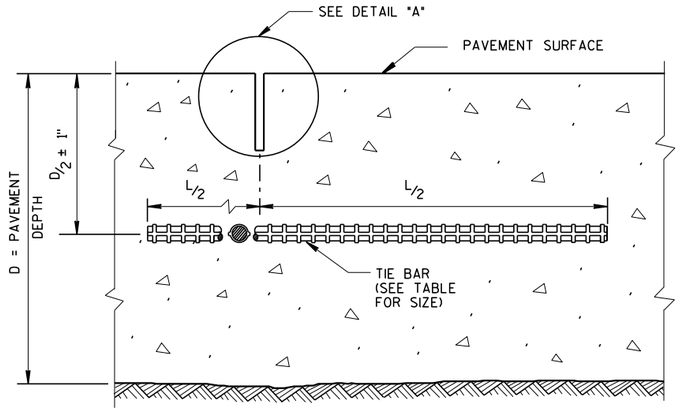
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CONSTRUCTION JOINT



SAWED JOINT

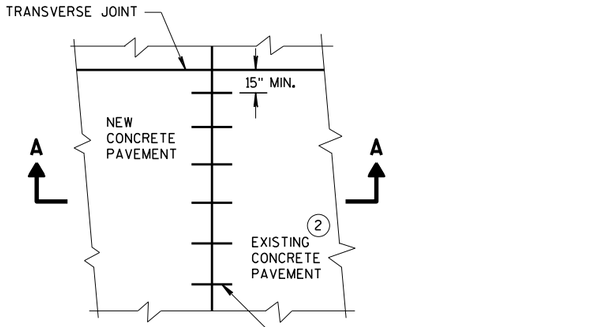
GENERAL NOTES

CREATE A LONGITUDINAL JOINT FOR PAVEMENT WIDTHS GREATER THAN 15 FEET.

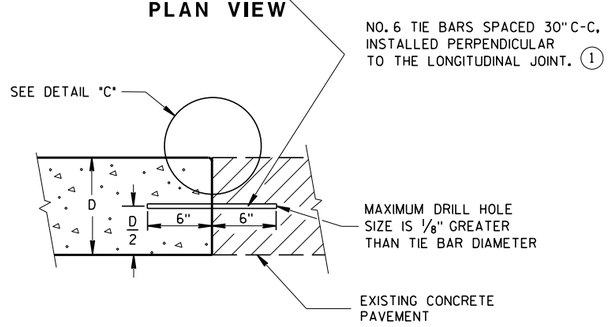
CORRELATE LONGITUDINAL JOINTS WITH LANE LINES WHEN POSSIBLE.

(1) ANCHOR TIE BARS INTO DRILLED HOLES WITH AN EPOXY.

(2) PAVEMENT THAT WAS IN PLACE PRIOR TO THE CONTRACT.

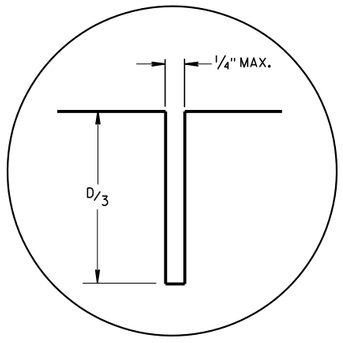


PLAN VIEW

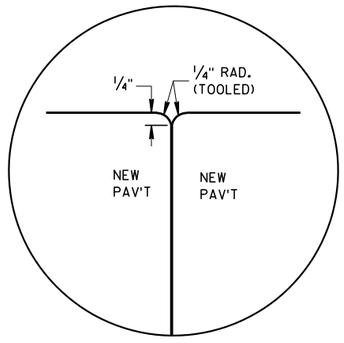


SECTION A-A

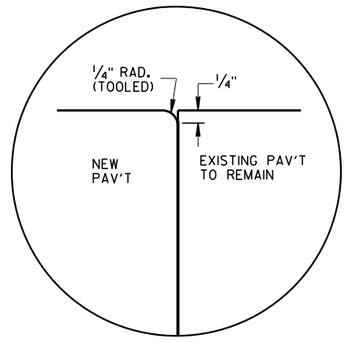
LONGITUDINAL CONSTRUCTION JOINT TIE BARS ANCHORED INTO EXISTING PAVEMENT



DETAIL "A"



DETAIL "B"



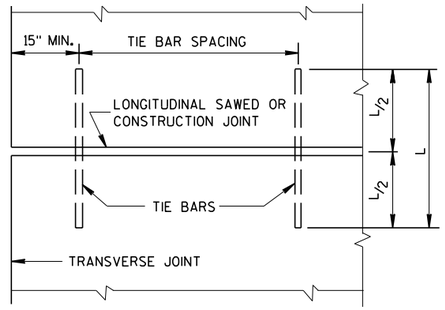
DETAIL "C"

TIE BAR TABLE

PAVEMENT DEPTH (D)	TIE BAR SIZE	TIE BAR LENGTH (L)	MAX. TIE BAR SPACING
< 10 1/2"	NO. 4	30"	36"
≥ 10 1/2"	NO. 5	36"	36"
	NO. 4 *	30"	24" **

* SUBSTITUTE BENT BARS AT LONGITUDINAL JOINTS WHEN EQUIPMENT LIMITATIONS DURING CONSTRUCTION WARRANT (e.g. AUXILIARY LANES OR TURN LANES)

** CONFORM TO 15" MINUMUM SPACING FROM TRANSVERSE JOINTS; SPACING BETWEEN TIE BARS WILL BE 30" AT TRANSVERSE JOINTS.



PLAN VIEW
SHOWING LOCATION OF TIE BARS

CONCRETE PAVEMENT
LONGITUDINAL JOINTS AND TIES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
March 2018 — DATE
/S/ Peter Kemp P.E. — PAVEMENT SUPE
FHWA

6

S.D.D. 13 C 1-19

6

S.D.D. 13 C 1-19

GENERAL NOTES

PCCP = PORTLAND CEMENT CONCRETE PAVEMENT.

SHLDR = SHOULDER.

CONTINUE SAW CUT CONTRACTION JOINT ACROSS TURN LANE, EXIT TAPER AND PASSING LANE.

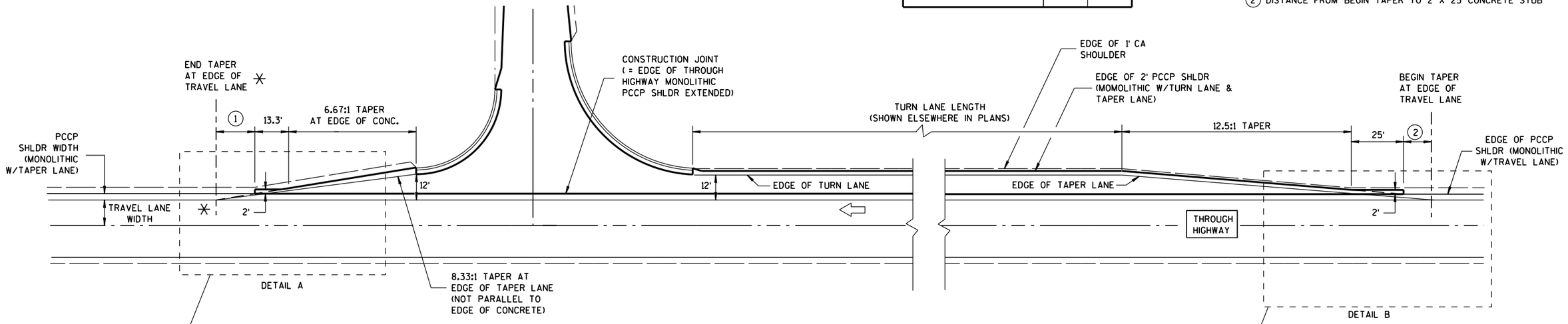
PAVEMENT MARKING DETAILS AND SPECIFICATIONS ARE PROVIDED ELSEWHERE IN THE CONTRACT.

THROUGH HIGHWAY LANE WIDTH AND PCCP SHOULDER WIDTH ARE SHOWN ELSEWHERE IN PLANS

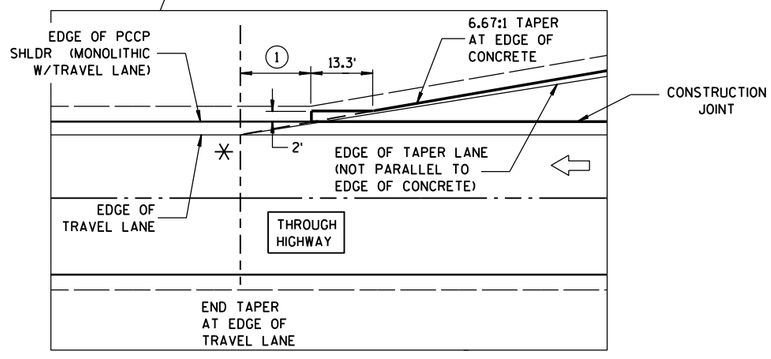
(1) DISTANCE FROM END TAPER TO 2' X 13.3' CONCRETE STUB

(2) DISTANCE FROM BEGIN TAPER TO 2' X 25' CONCRETE STUB

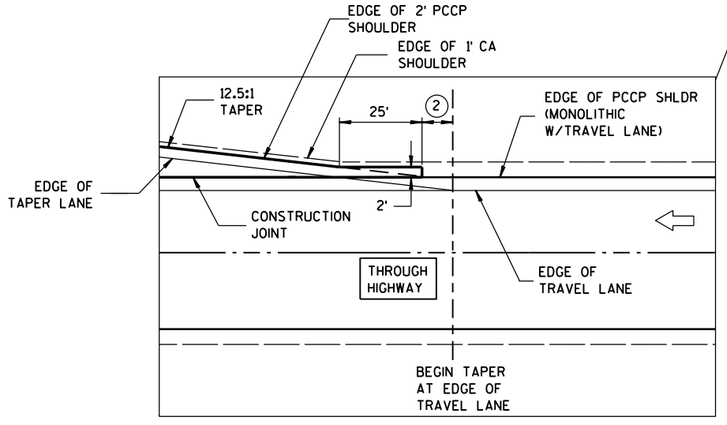
THROUGH HIGHWAY MONOLITHIC PCCP SHOULDER WIDTH (FEET)	DISTANCE (FEET)	
	(1)	(2)
2	13.3	0.0
3	20.0	12.5
TAPER RATE : 1	6.67	12.5



✳ NOTE: EDGE OF CONCRETE TAPER (EXTENDED) & EDGE OF TAPER LANE CONVERGE



DETAIL A



DETAIL B

RIGHT TURN LANE AND EXIT TAPER

DETAIL FOR RIGHT TURN LANE/ TEE INTERSECTION BYPASS LANE ON A CONCRETE ROADWAY

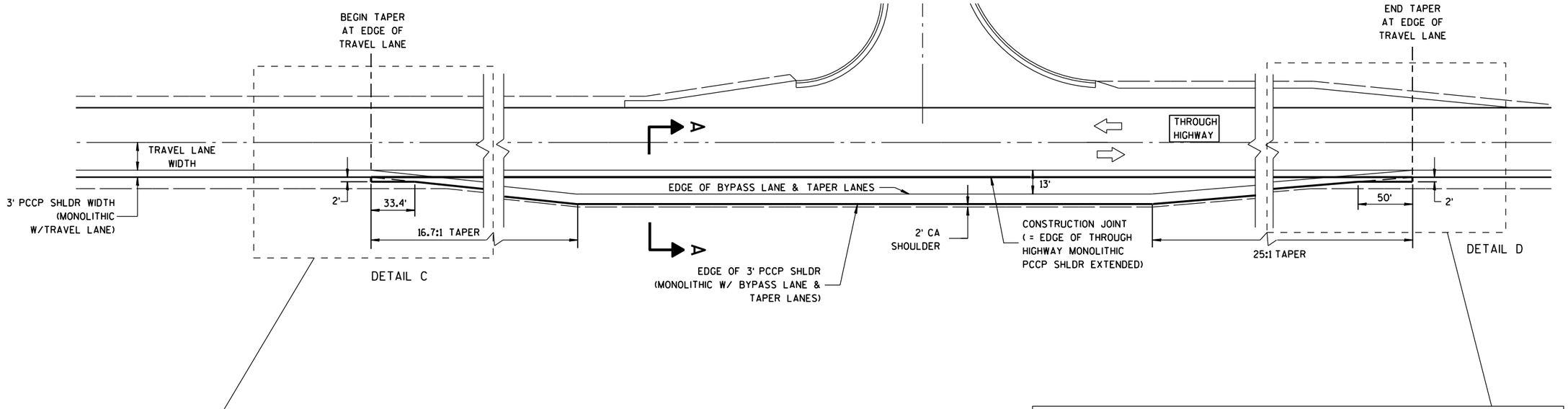
STATE OF WISCONSIN
DEPARTMENT OF TRANSPO

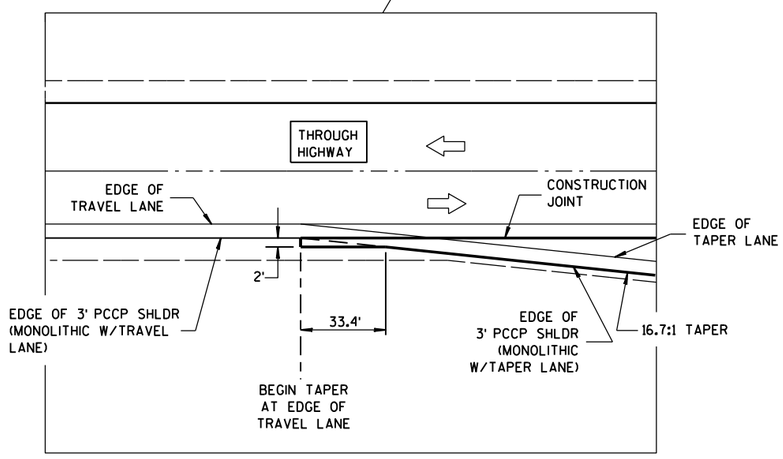
6

S.D.D. 13 C 16-2a

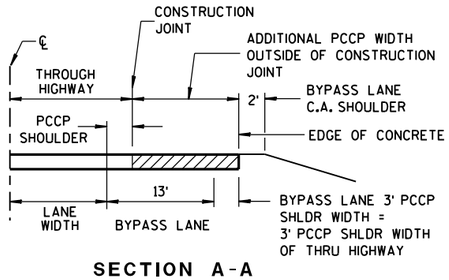
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S.D.D. 13 C 16-2a



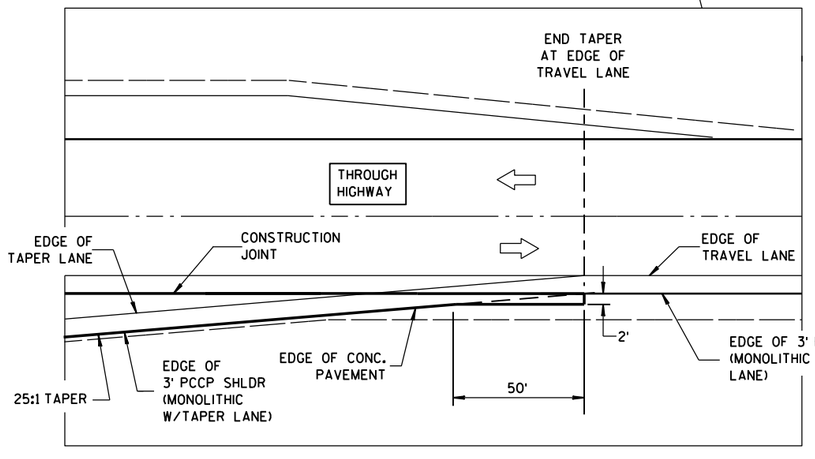


DETAIL C



SECTION A-A

(SHOWING BYPASS LANE AND SHOULDER)



DETAIL D

TWO LANE UNDIVIDED HIGHWAY TEE INTERSECTION BYPASS LANE

DETAIL FOR RIGHT TURN LANE/ TEE INTERSECTION BYPASS LANE ON A CONCRETE ROADWAY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

12/18/12
DATE

/S/ Jerry H. Zogg
ROADWAY STANDARDS ENGINEER

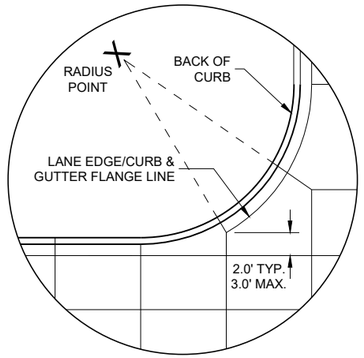
FHWA

6

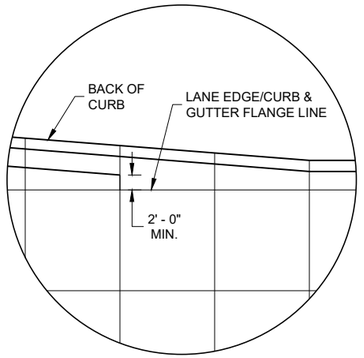
S.D.D. 13 C 16-2b

6

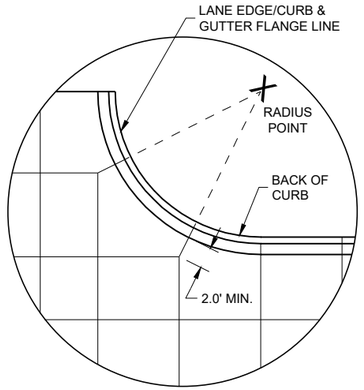
S.D.D. 13 C 16-2b



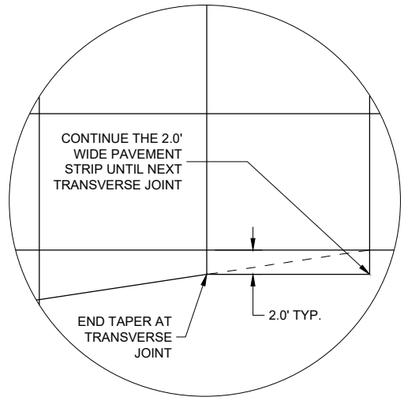
DETAIL "A"



DETAIL "B"



DETAIL "C"



DETAIL "D"

GENERAL NOTES

THE PRIMARY ROADWAY CONTROLS THE TRANSVERSE JOINT PATTERN.

ALIGN NEW JOINTS WITH EXISTING JOINTS OR CRACKS.

CONSTRUCT TRANSVERSE JOINTS PERPENDICULAR TO THE ROADWAY.

ADJUST TRANSVERSE JOINTS TO ALIGN WITH UTILITY FIXTURES (E.G MANHOLES AND INLETS) IN THE PAVEMENT STRUCTURE WHEN POSSIBLE. WATER VALVES DO NOT REQUIRE JOINT ADJUSTMENT.

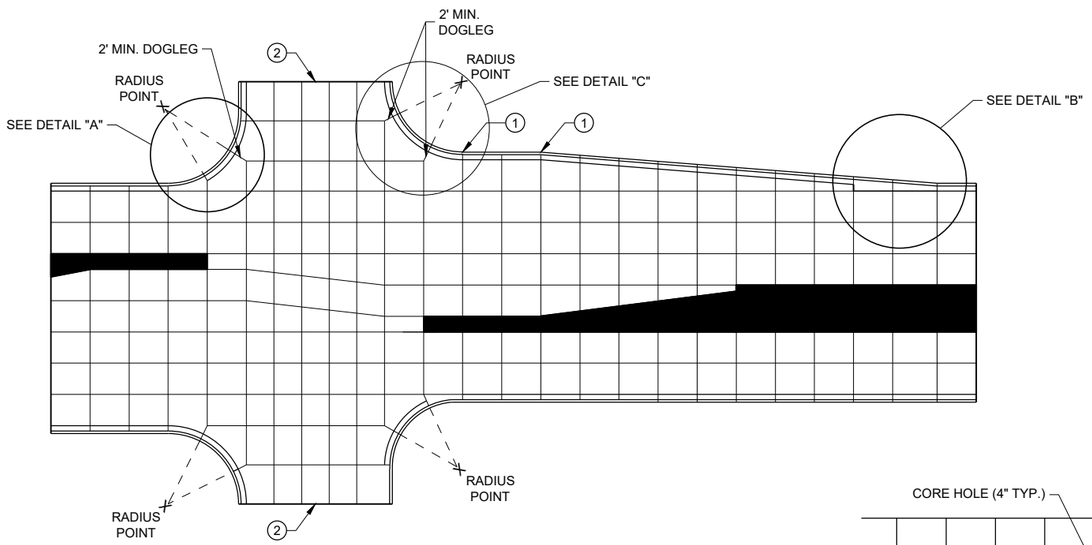
AVOID SLABS LESS THAN 2 FEET WIDE OR GREATER THAN 15 FEET WIDE.

SEE TABLE FOR TRANSVERSE JOINT SPACING. JOINT SPACING SPECIFIED IS MAXIMUM AND ACTUAL SPACING CAN BE ADJUSTED TO ACCOMMODATE INTERSECTIONS.

AVOID ANGLES LESS THAN 60° BY DOGLEGGING JOINTS THROUGH CURVE RADIUS POINTS. USE 90° ANGLES WHEN POSSIBLE.

CORRELATE LONGITUDINAL JOINTS WITH LANE LINES WHEN POSSIBLE.

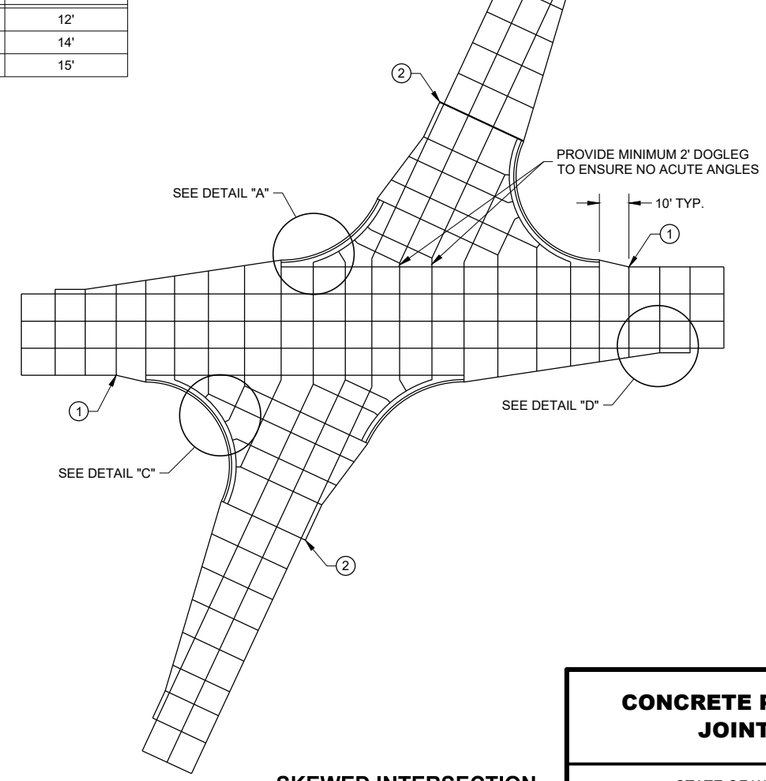
1. PROVIDE TRANSVERSE JOINTS AT ALL PAVEMENT WIDTH CHANGES.
2. CONSTRUCT DOWELED EXPANSION JOINT ON THE SIDE ROAD OF AN INTERSECTION IF THE SIDE ROAD IS CONCRETE PAVEMENT AND GREATER THAN 300 FEET IN LENGTH. ALIGN EXPANSION JOINT WITH EDGE OF RADIUS.
3. THE ENGINEER MAY APPROVE SLIGHT VARIATIONS FROM THESE JOINTING DETAILS.



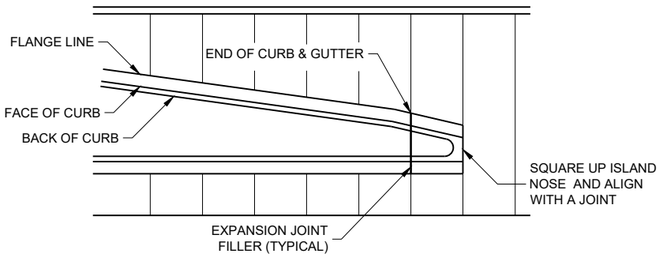
STANDARD INTERSECTION

PAVEMENT DEPTH AND JOINT SPACING TABLE

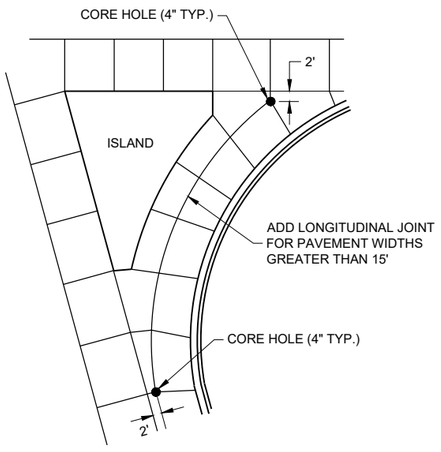
PAVEMENT DEPTH (D)	CONTRACTION JOINT SPACING
6", 6 ½"	12'
7", 7 ½"	14'
8" & ABOVE	15'



SKEWED INTERSECTION



APPROACH TO MEDIAN

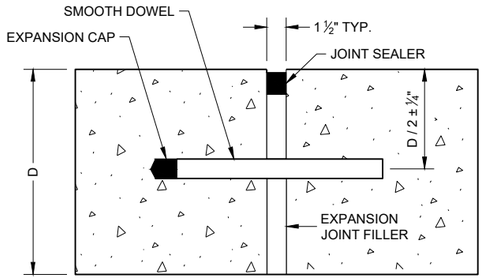


LARGE RIGHT TURN

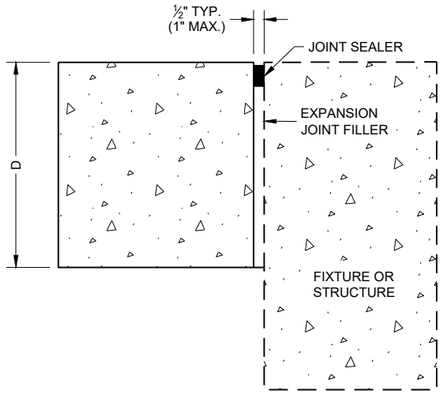
CONCRETE PAVEMENT JOINTING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6
SDD 13C18 - 08a



DOWELED TRANSVERSE (1)



UNTIED - LONGITUDINAL

EXPANSION JOINTS

TIE BAR TABLE

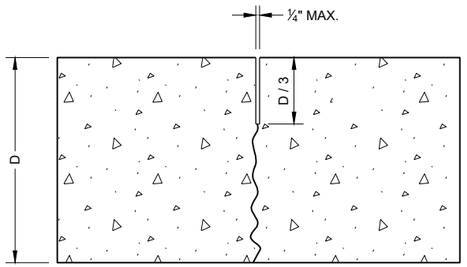
PAVEMENT DEPTH (D)	TIE BAR SIZE	TIE BAR LENGTH (L)	MAX. TIE BAR SPACING
< 10 ½"	NO. 4	30"	36"
≥ 10 ½"	NO. 5	36"	36"
	NO. 4 *	30"	24" **

* SUBSTITUTE BENT BARS AT LONGITUDINAL JOINTS WHEN EQUIPMENT LIMITATIONS DURING CONSTRUCTION WARRANT (e.g. AUXILIARY LANES OR TURN LANES)

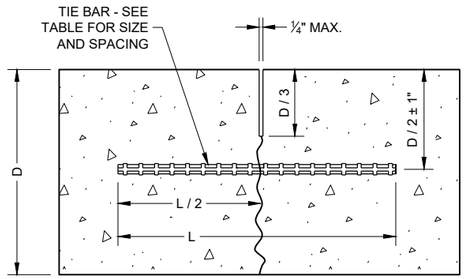
** CONFORM TO 15" MINIMUM SPACING FROM TRANSVERSE JOINTS; SPACING BETWEEN TIE BARS WILL BE 30" AT TRANSVERSE JOINTS.

GENERAL NOTES

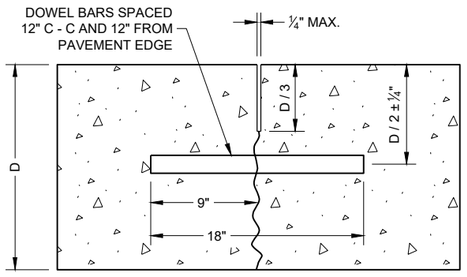
1. USE DOWELED EXPANSION JOINTS ON SIDE ROADS AT INTERSECTIONS (TO ISOLATETHE SIDE ROAD FROM THE THROUGH STREET) IF THE SIDE ROAD IS CONCRETE PAVEMENT AND GREATER THAN 300 FEET IN LENGTH.
2. SPACE CONTRACTION JOINTS IN ACCORDANCE WITH SDD 13C4, 13C11 OR 13C13.
3. LOCATE CONSTRUCTION JOINTS A MINIMUM OF 6 FEET FROM THE NEAREST CONTRACTION JOINT AND ALIGN PARALLEL TO CONTRACTION JOINTS.
4. CONSTRUCTION JOINTS CAN BE FORMED OR SAWED.
5. IF JOINT IS FORMED, PROVIDE A ¼" RADIUS.
6. ANCHOR TIE BARS INTO DRILLED HOLES WITH AN EPOXY.



UNDOWELED TRANSVERSE

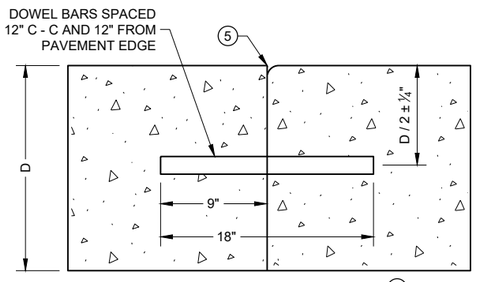


TIED LONGITUDINAL

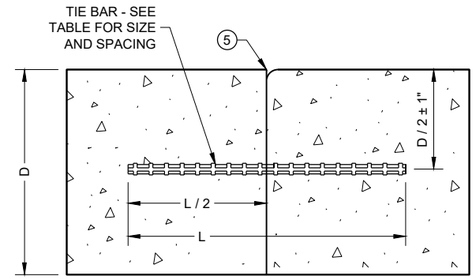


DOWELED TRANSVERSE

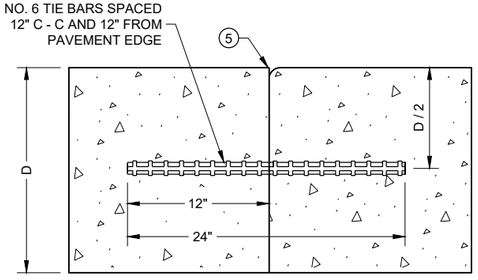
CONTRACTION JOINTS (2)



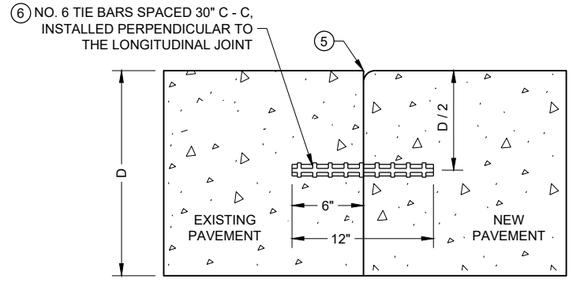
DOWELED TRANSVERSE (3)



TIED LONGITUDINAL



TIED TRANSVERSE (3)
(FOR USE ON NON-DOWELED PAVEMENTS ONLY)



TIED LONGITUDINAL TO EXISTING

CONSTRUCTION JOINTS (4)

CONCRETE PAVEMENT JOINT TYPES

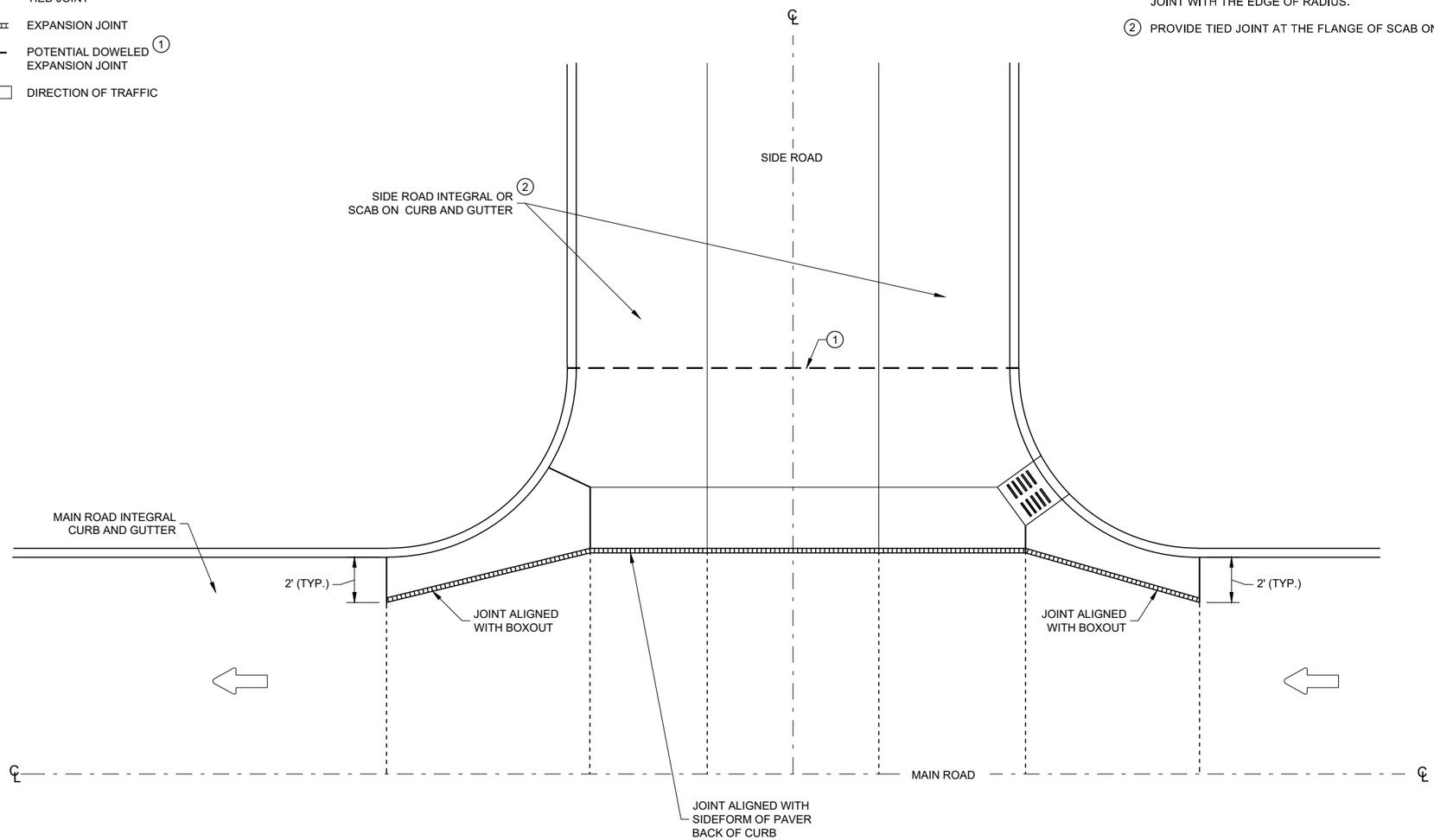
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

SDD 13C18 - 08c

LEGEND

- DOWELED JOINT
- TIED JOINT
- EXPANSION JOINT
- POTENTIAL DOWELED EXPANSION JOINT (1)
- DIRECTION OF TRAFFIC



GENERAL NOTES

(1) CONSTRUCT DOWELED EXPANSION JOINT ON THE SIDE ROAD OF AN INTERSECTION IF THE SIDE ROAD IS CONCRETE PAVEMENT AND GREATER THAN 300 FEET IN LENGTH. ALIGN EXPANSION JOINT WITH THE EDGE OF RADIUS.

(2) PROVIDE TIED JOINT AT THE FLANGE OF SCAB ON CURB IF SCAB ON CURB AND GUTTER IS USE.

INTERSECTION BOXOUT FOR INTEGRAL CURB AND GUTTER

CONCRETE PAVEMENT INTERSECTION BOXOUT FOR INTEGRAL CURB AND GUTTER

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2023
DATE

/S/ Peter Kemp P.E.
PAVEMENT SUPERVIS

308

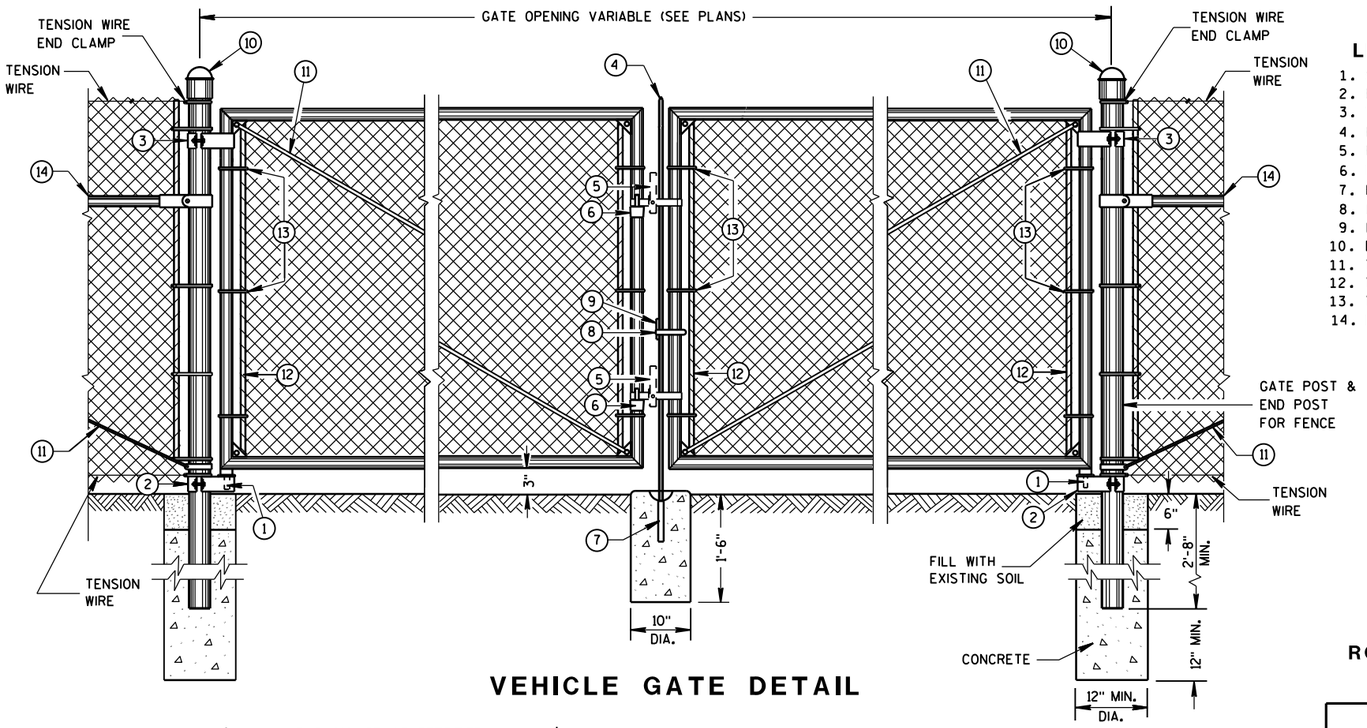
FHWA

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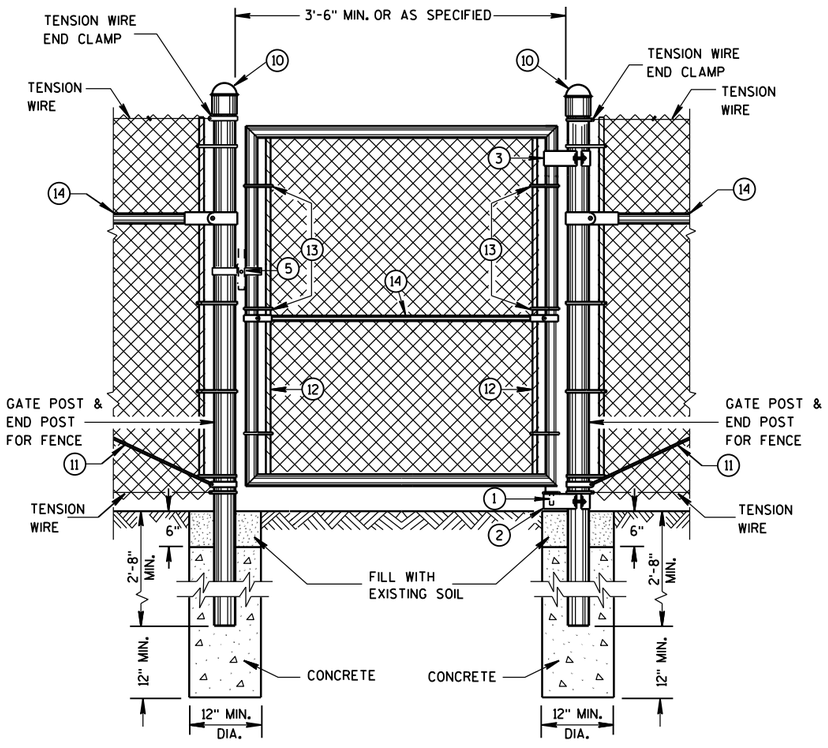
SDD 13C18 - 08f

6

SDD 13C18 - 08f



VEHICLE GATE DETAIL



PEDESTRIAN GATE DETAIL

LEGEND

1. STRAIGHT PLUG
2. BOTTOM HINGE
3. TOP HINGE
4. PLUNGER ROD
5. FULCRUM LATCH
6. FORK CATCH *
7. PLUNGER ROD CATCH
8. LOCK KEEPER GUIDE
9. LOCK KEEPER
10. DOME TOPS
11. TRUSS RODS
12. TENSION BAR
13. TENSION BANDS
14. BRACE RAIL

*NOT REQUIRED ON SINGLE SWING PEDESTRIAN GATE

GENERAL NOTES

FENCE POSTS INSTALLED ON CONCRETE WALLS SHALL BE ANCHORED INTO EMBEDDED METAL SLEEVES OR CORED HOLE BY FILLING THE ANNULAR SPACE WITH PEA GRAVEL FOLLOWED BY AN EPOXY RESIN ADHESIVE. THE EPOXY RESIN ADHESIVE SHALL CONFORM TO THE REQUIREMENTS OF AASHTO M 235, CLASS A, B OR C.

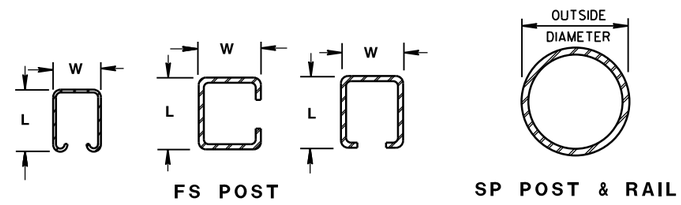
USE FENCE FABRIC KNUCKLED AT BOTH SELVAGES.

FOR LEAF GATES GREATER THAN 8 FEET WIDE, INSTALL INTERIOR VERTICAL BRACE RAIL AT 8 FOOT INTERVALS.

FOR FABRIC HEIGHTS GREATER THAN 8 FEET, INSTALL INTERIOR HORIZONTAL BRACE RAILS TO LEAF GATE.

MAXIMUM SAG FOR OUTER GATE MEMBER SHALL NOT EXCEED THE GREATER OF 1% OF THE LEAF GATE WIDTH OR 2 INCHES.

USE TYPE 2, CLASS 3, MARCELLED/CRIMPED, TENSION WIRE PER ASTM A 817.



CROSS SECTIONS OF POSTS AND RAILS

ROLLED-FORMED STEEL FENCE POST (2.0 OZ./SQ. FT. COATING)

POST TYPE	LENGTH (L) INCH	WIDTH (W) INCH	WEIGHT LBS/FT
FS1	1.625	1.25	1.35
FS2†	1.875	1.625	1.850
FS2	1.875	1.625	2.400
FS3	2.250	1.700	2.780

ROUND STEEL FENCE POST (1.8 OZ./SQ. FT. COATING)

POST TYPE	OUTSIDE DIMENSION INCH	WALL THICKNESS INCH	WEIGHT LBS/FT
SP1	1.660	0.140	2.270
SP2	1.900	0.145	2.720
SP3	2.375	0.154	3.650
SP4	2.875	0.203	5.800
SP5	4.000	0.226	9.120
SP6	6.625	0.280	18.990
SP7	8.625	0.322	28.580

REQUIRED FENCE POST SIZES

USE	FABRIC HEIGHTS FEET	POST TYPE
TERMINAL POSTS **	LESS THAN OR EQUAL TO 6 FT.	SP3
	GREATER THAN OR EQUAL TO 6 FT.	SP4
LINE POSTS	LESS THAN OR EQUAL TO 6 FT.	SP2
	LESS THAN OR EQUAL TO 8 FT.	SP3
	GREATER THAN OR EQUAL TO 8 FT.	SP4
	LESS THAN OR EQUAL TO 8 FT.	FS2 OR FS2†
	GREATER THAN OR EQUAL TO 8 FT.	FS3

REQUIRED POST SIZE FOR GATES

USE	LEAF WIDTHS FEET	POST TYPE
GATES	LESS THAN OR EQUAL TO 6 FT.	SP4
	LESS THAN OR EQUAL TO 13 FT.	SP5
	LESS THAN OR EQUAL TO 18 FT.	SP6
	LESS THAN OR EQUAL TO 23 FT.	SP7

BRACE RAIL TYPES

USE		TYPE
BRACE RAIL		SP1 OR FS1

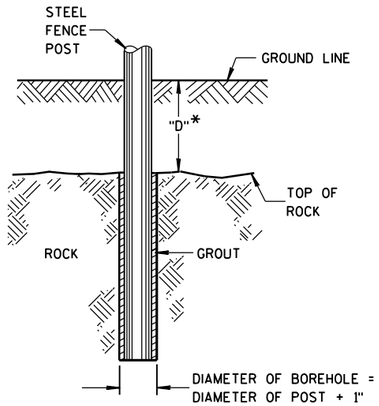
** INCLUDES END, CORNER, ANGLE, INTERSECTION AND INTERMEDIATE BRACED POSTS

FENCE CHAIN LINK

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

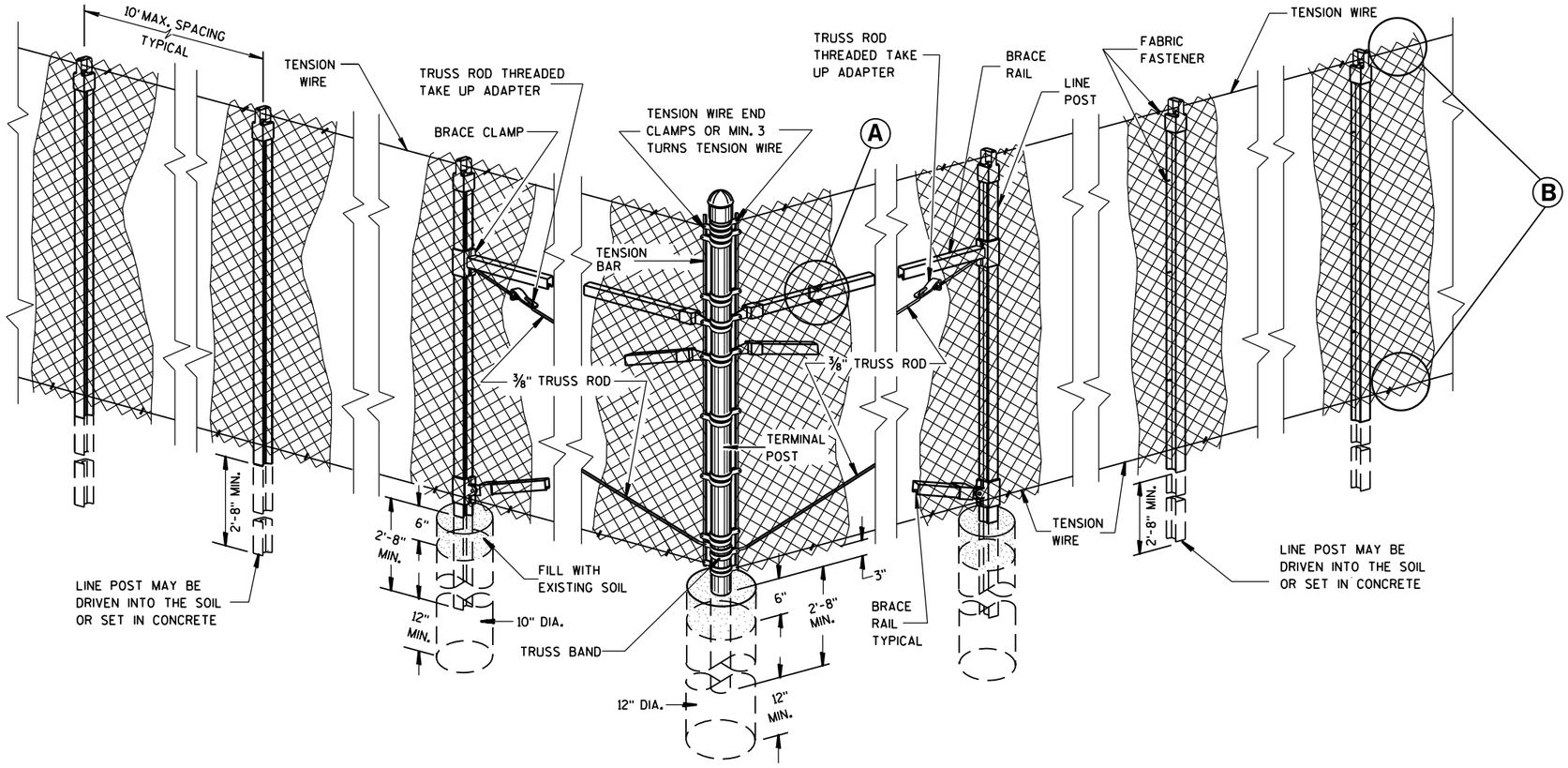
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S.D.D. 15 B 3-15a

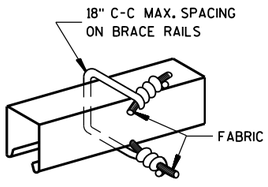


*IF "D" IS LESS THAN 2'-6", DRILL ROCK AND INSTALL GROUT

ROCK INSTALLATION OF LINE POST



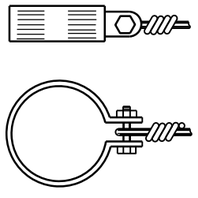
END, CORNER, ANGLE INTERSECTION & INTERMEDIATE BRACED POSTS



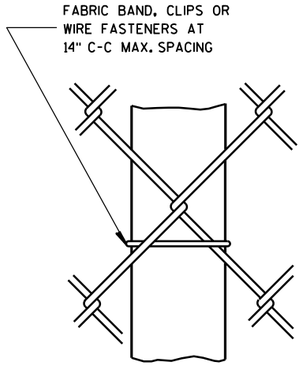
BRACE RAIL

FABRIC FASTENER

Ⓐ



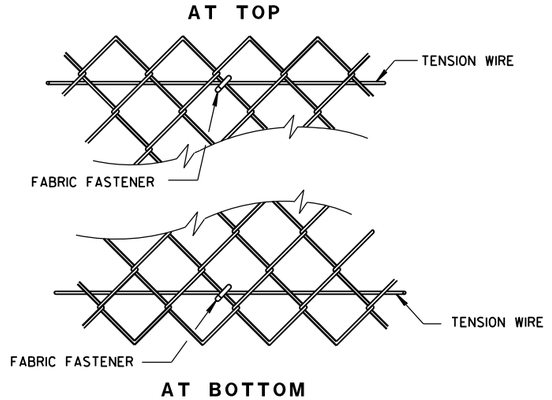
TENSION WIRE END CLAMP



LINE POST

FABRIC FASTENER

AT TOP



AT BOTTOM

SELVAGES

Ⓑ

FENCE CHAIN LINK

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

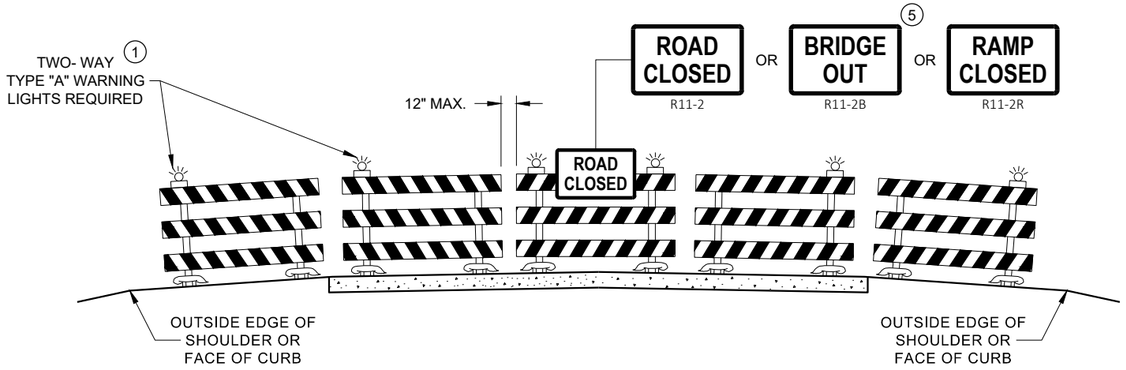
APPROVED
FEB. 2015 DATE
FHWA
/S/ Jerry H. Zogg
ROADWAY STANDARDS DEVELOPMENT ENGINEER

6

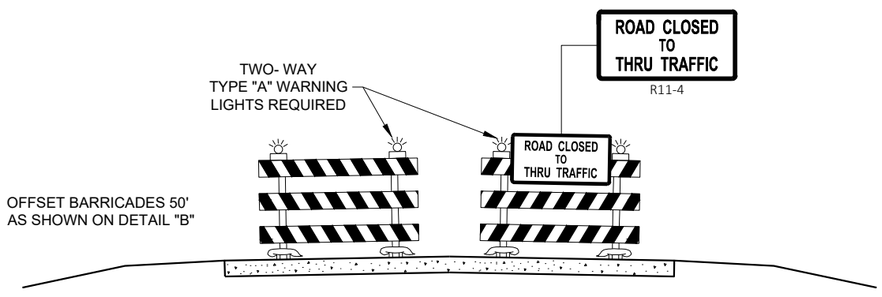
S.D.D. 15 B 3-15b

6

S.D.D. 15 B 3-15b



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.

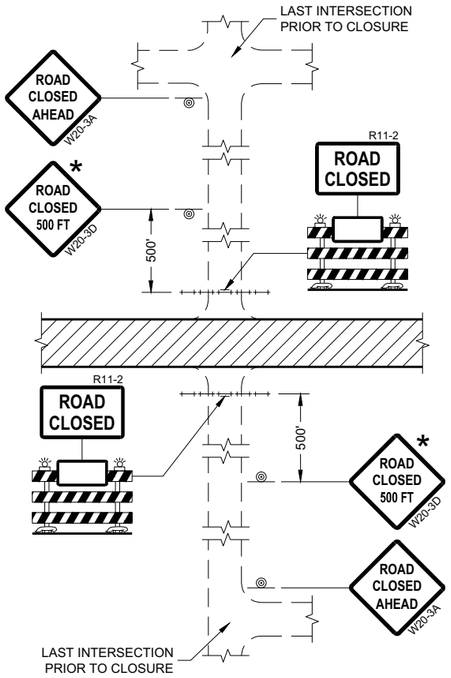
BARRICADES AND SIGNS FOR VARIOUS CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

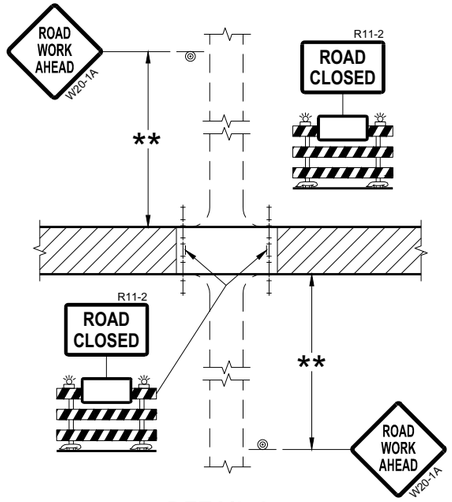
APPROVED
May 2023
DATE
/S/ Andrew Heidtke
WORK ZONE ENGINEE
FHWA

6

SDD 15C02 - 09b



DETAIL 1
(NO ACCESS TO PROJECT)



DETAIL 2
(PUBLIC CROSS-TRAFFIC MAINTAINED.
NO ACCESS TO PROJECT)

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 (500 FEET DESIRABLE) TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

IF A "STOP" SIGN MUST BE REMOVED FOR A WORK OPERATION, A TEMPORARY "STOP" SIGN SHALL BE PLACED PRIOR TO THE SIGN REMOVAL, OR A FLAGGER SHALL BE PROVIDED UNTIL THE SIGN IS REESTABLISHED.

BARRICADES 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.

SIGNS THAT WILL BE IN PLACE LESS THAN SEVEN 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.

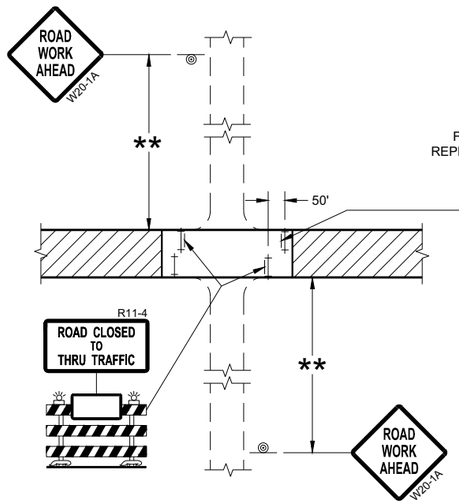
TYPE "A" LOW-INTENSITY FLASHING WARNING LIGHTS SHALL BE VISIBLE ON BOTH SIDES OF THE BARRICADE.

THE R11-2, R11-3, AND R11-4 SIGNS PLACED ON BARRICADES SHALL COVER NO MORE THAN THE TOP RAIL. THE SIGNS SHALL NOT COVER ANY PORTION OF THE MIDDLE OR BOTTOM RAILS.

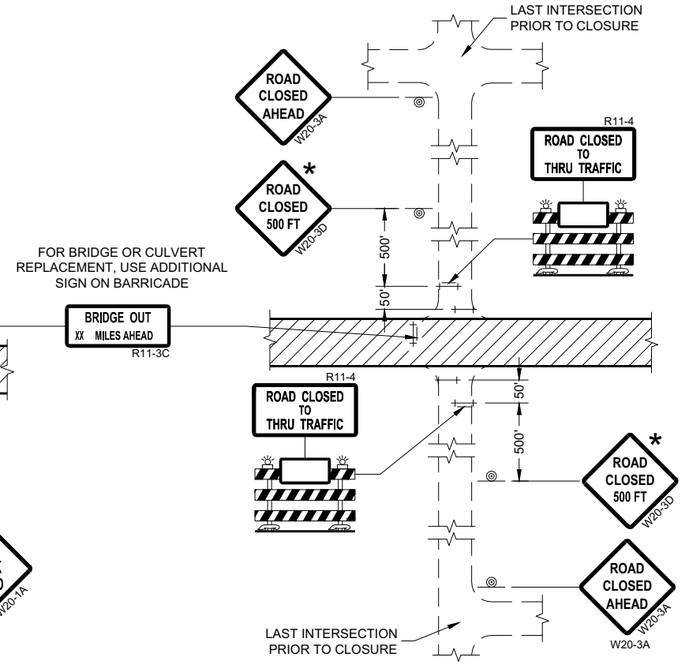
ALL SIGNS SHALL BE 48" X 48" UNLESS OTHERWISE NOTED BELOW:
R11-2 SHALL BE 48" X 30".
R11-4 AND R11-3 SHALL BE 60" X 30".

* OMIT THE "ROAD CLOSED 500 FT." SIGN IF THE LAST INTERSECTION IS 500 FEET OR LESS FROM THE WORK ZONE.

** 500' MAX. OR AT LAST INTERSECTION, WHICHEVER IS CLOSEST.



DETAIL 3
(PUBLIC CROSS-TRAFFIC MAINTAINED.
CONTRACTOR, LOCAL BUSINESS AND
RESIDENT ACCESS TO PROJECT)



DETAIL 4
(CONTRACTOR, LOCAL BUSINESS AND
RESIDENT ACCESS TO PROJECT)

LEGEND

- SIGN ON PERMANENT SUPPORT
- TYPE III BARRICADE
- TYPE III BARRICADE WITH ATTACHED SIGN
- TYPE "A" WARNING LIGHT (FLASHING)
- WORK AREA

BARRICADES AND SIGNS FOR SIDEROAD CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
July 2018
DATE

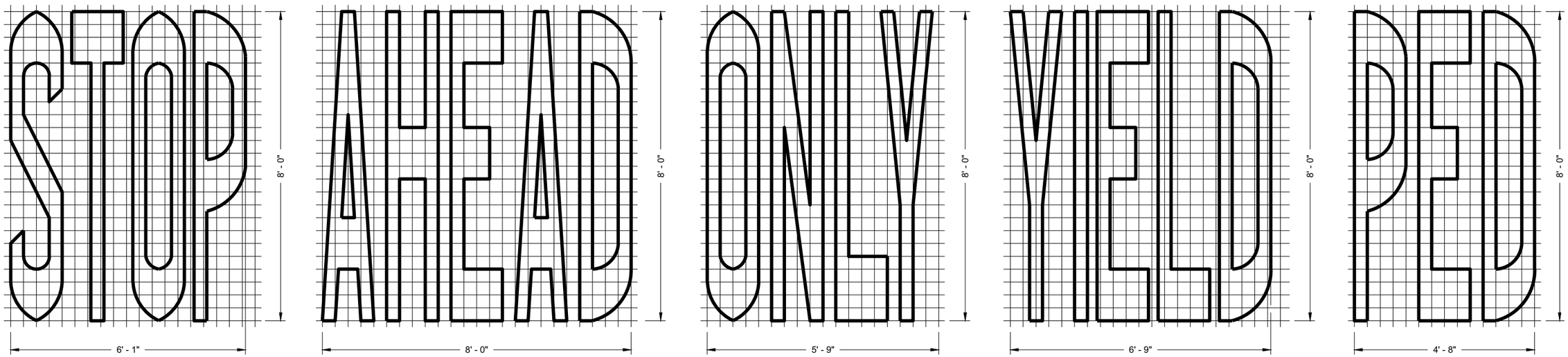
/S/ Andrew Heidtke
WORK ZONE ENGINEER

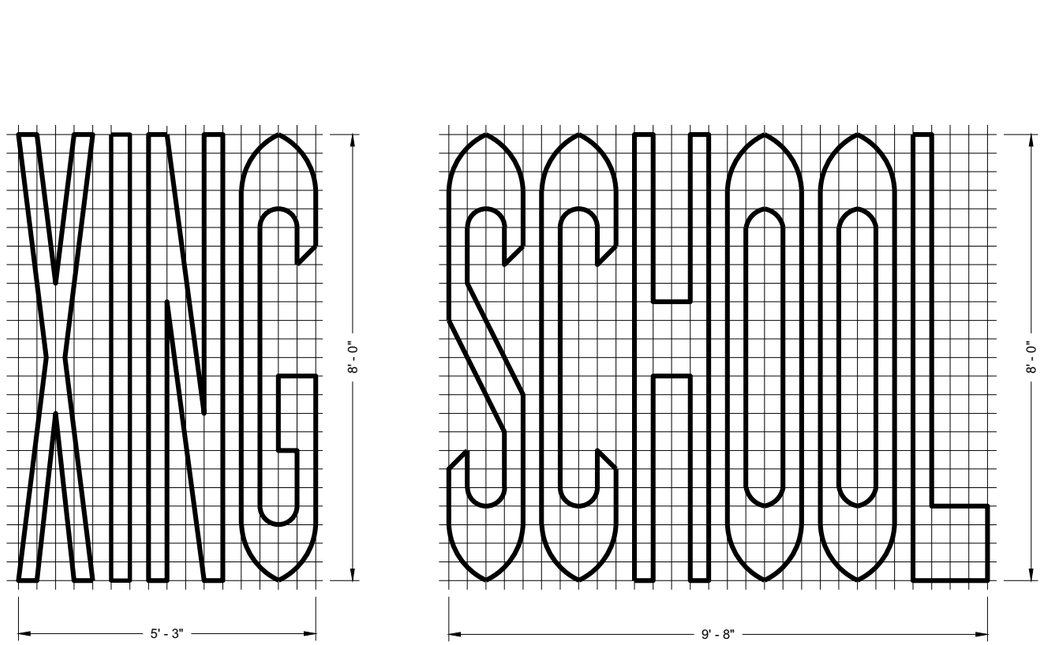
FHWA

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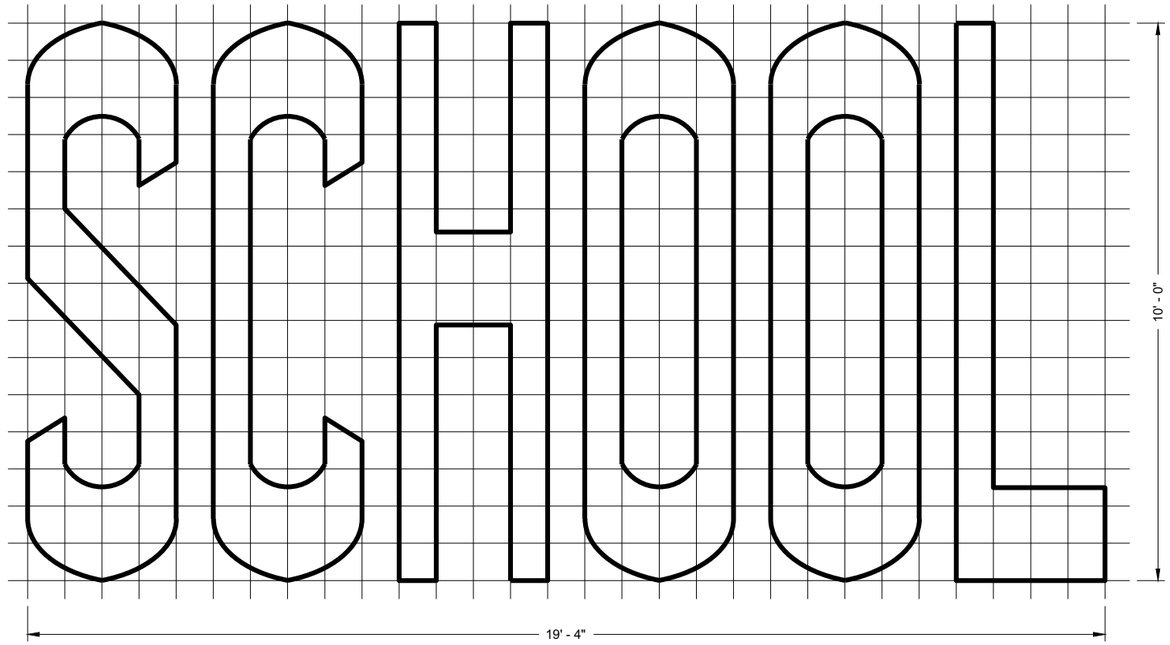
SDD 15C03 - 05

SDD 15C03 - 05





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 2019
DATE

/S/ Matthew Rauch
STATE SIGNING AND MAF ENGINEER

FHWA

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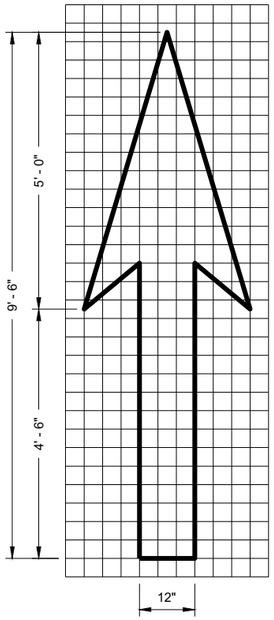
SDD 15C07 - 15b

6

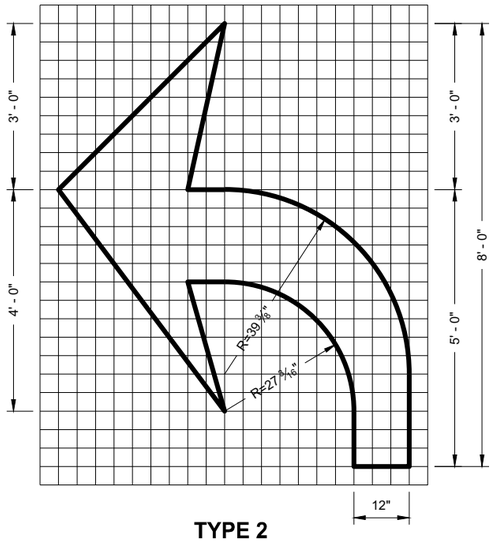
SDD 15C07 - 15b

GENERAL NOTES

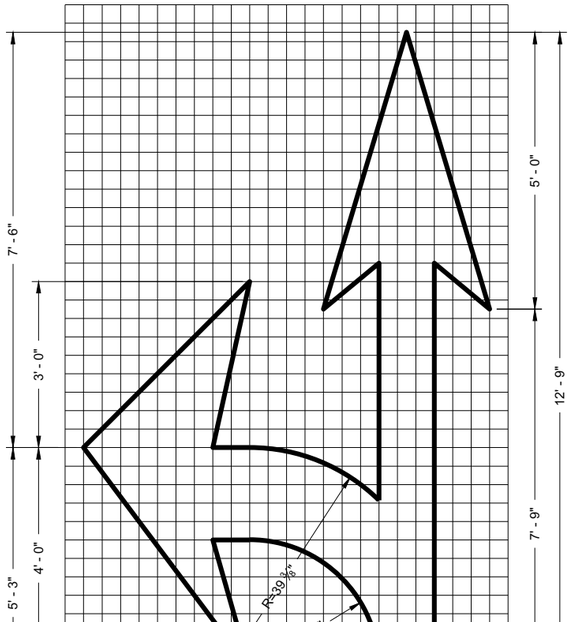
DETAILS OF INSTALLATION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.



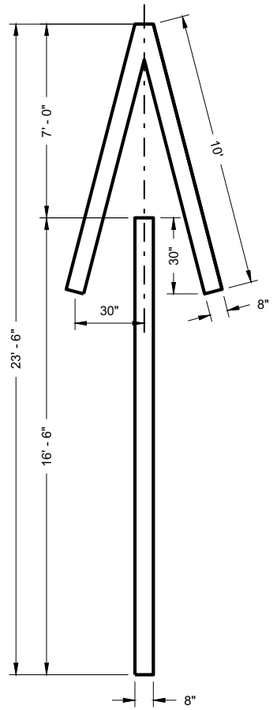
TYPE 1



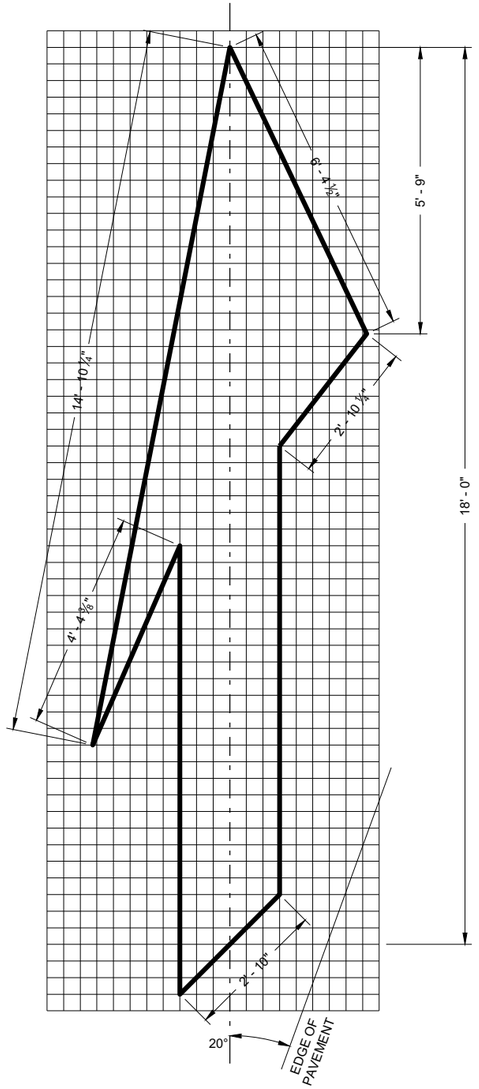
TYPE 2



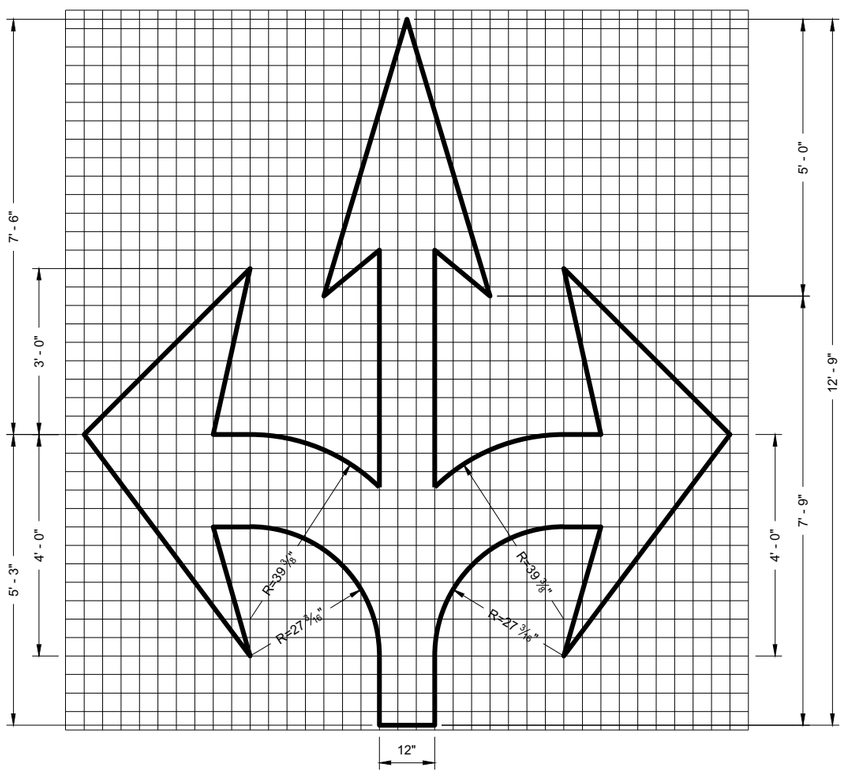
TYPE 3



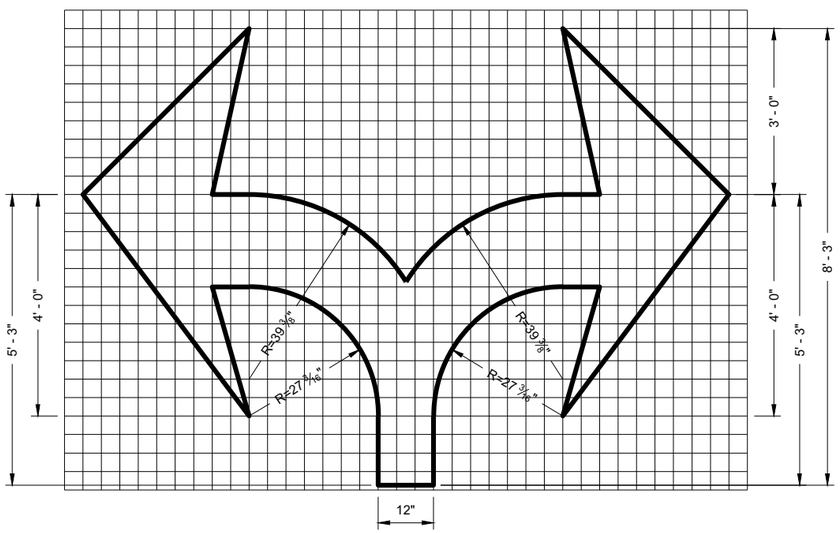
TYPE 4



TYPE 5 LANE DROP ARROW



TYPE 6



TYPE 7

PAVEMENT MARKING ARROWS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2019 — DATE
/S/ Matthew Rauch — STATE SIGNING AND MAF ENGINEER

FHWA

6

SDD 15C07 - 15c

6

SDD 15C07 - 15c

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.

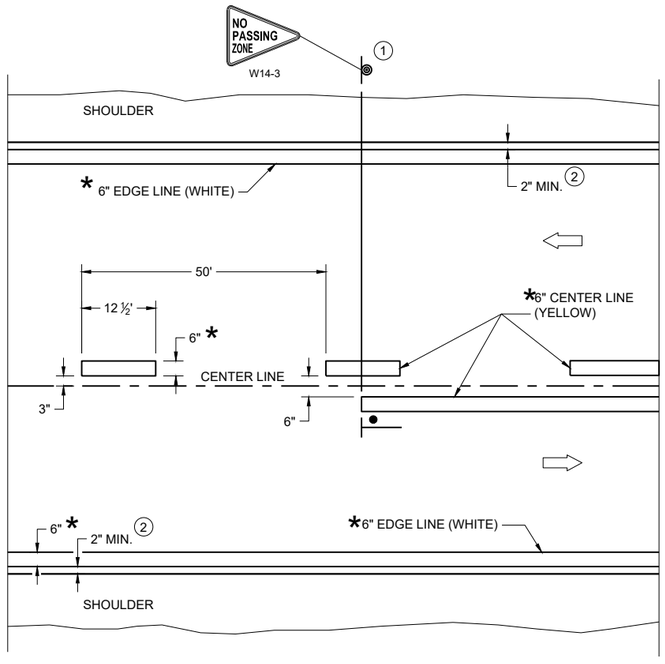
LEGEND

"T" MARKING

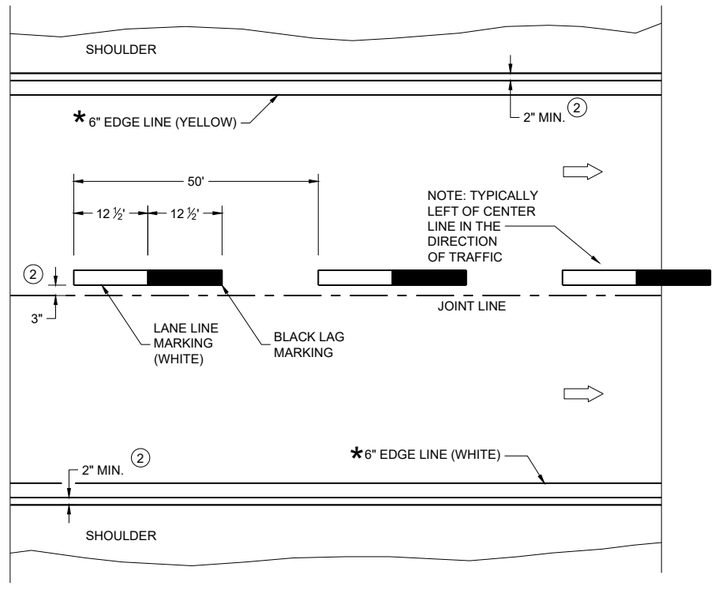
SIGN ON PERMANENT SUPPORT

DIRECTION OF TRAFFIC

*CONFIRM MARKING LINE WIDTH WITH THE MISCELLANEOUS QUANTITIES



TWO WAY TRAFFIC



ONE WAY TRAFFIC

PERMANENT PAVEMENT MARKING

6

SDD 15C08-23a

PERMANENT LONGITUDINAL PAVEMENT MARKINGS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

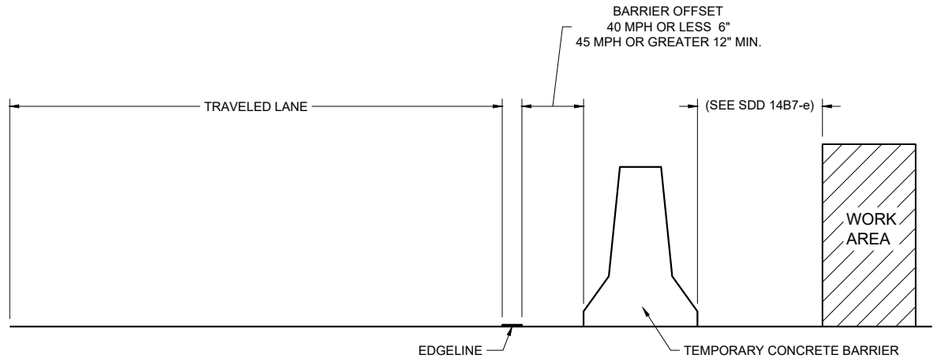
APPROVED
May 2023
DATE

/S/ Jeannie Silver
Statewide Pavement Marking Engineer

FHWA

6

SDD 15C08-23a



TEMPORARY BARRIER OFFSET FROM EDGELINE

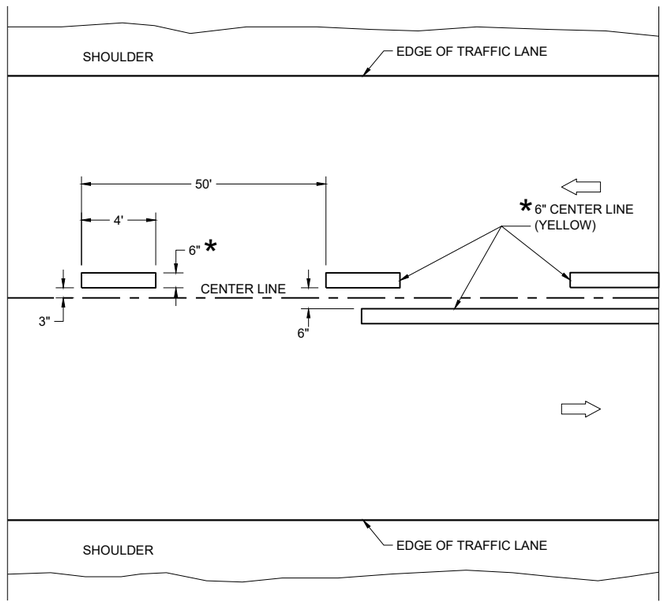
GENERAL NOTES

DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS.

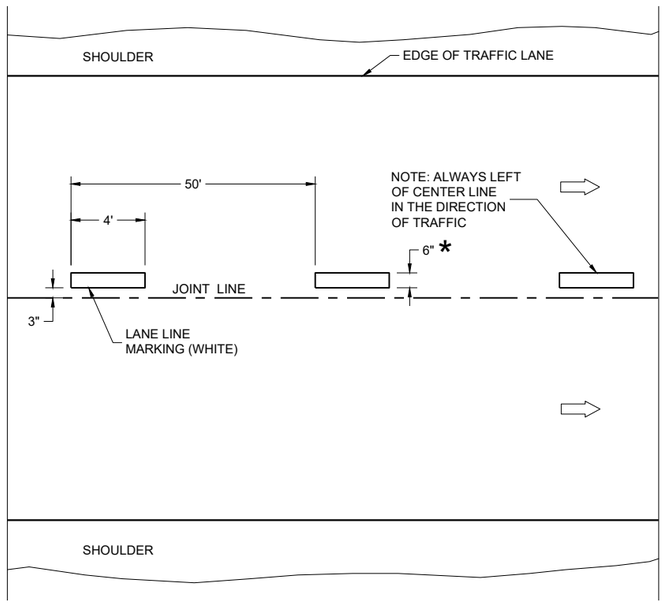
LEGEND

DIRECTION OF TRAFFIC

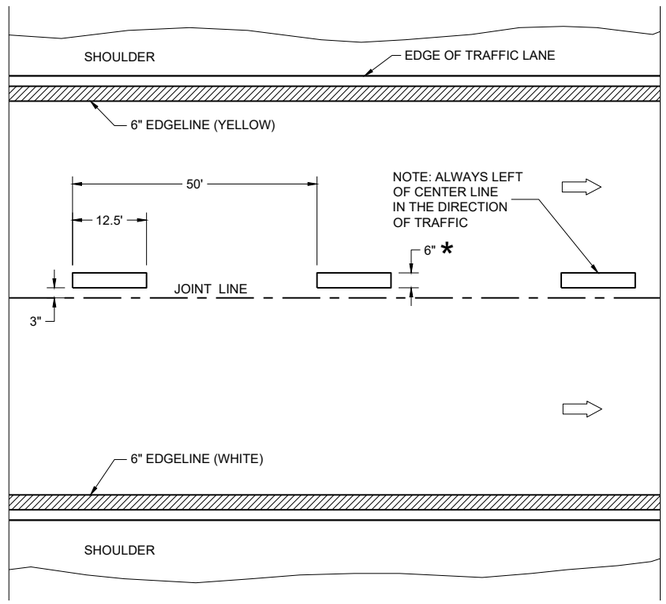
*CONFIRM MARKING LINE WIDTH WITH THE MISCELLANEOUS QUANTITIES



TWO WAY TRAFFIC



ONE WAY TRAFFIC



FREEWAYS AND EXPRESSWAYS

TEMPORARY PAVEMENT MARKING

TEMPORARY LONGITUDINAL PAVEMENT MARKING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2023
DATE
/S/ Jeannie Silver
Statewide Pavement Marking Engineer
FHWA

6

SDD 15C08-23b

6

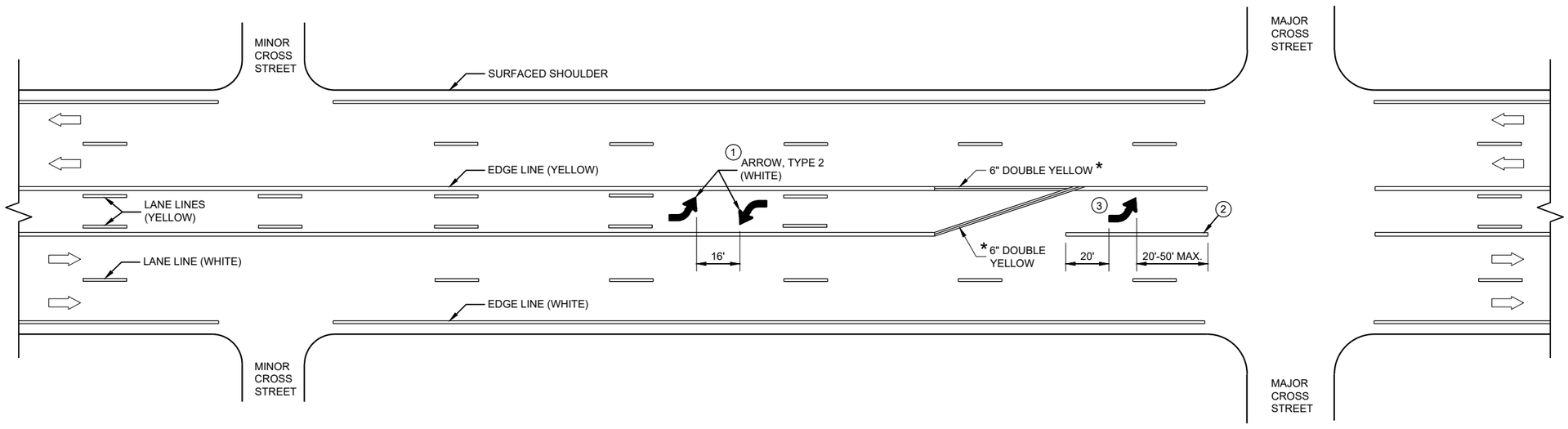
SDD 15C08-23b

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



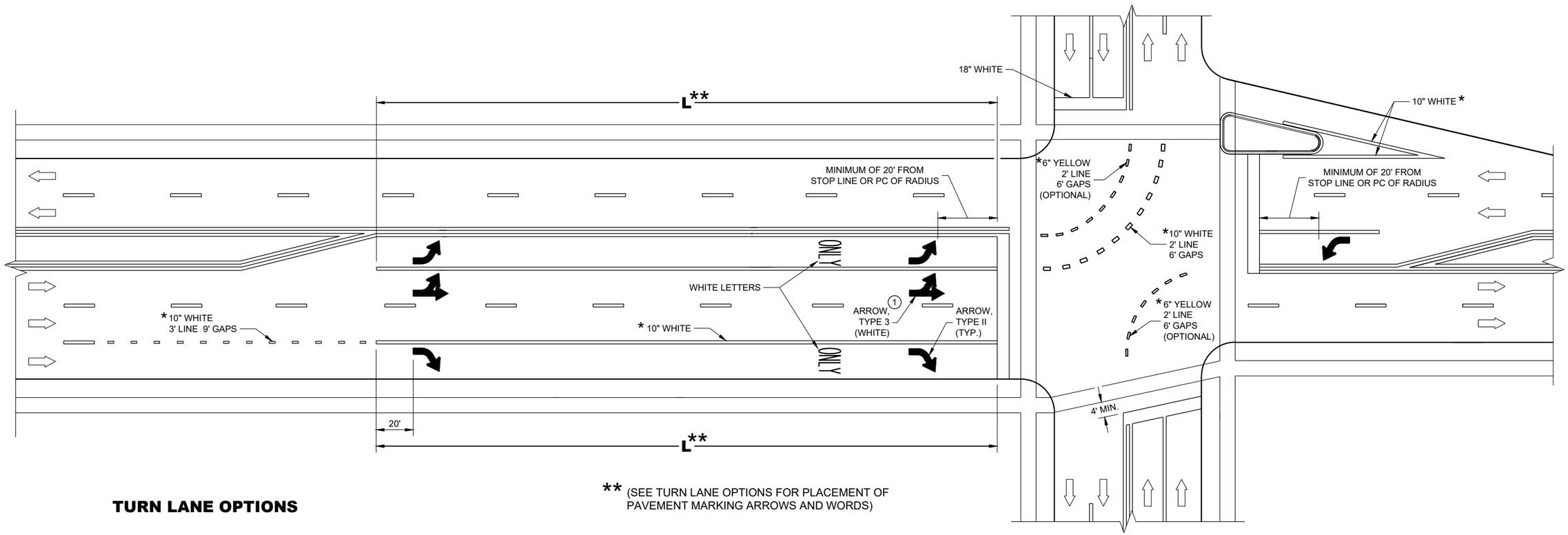
TWO WAY LEFT TURN LANE

PAVEMENT MARKING (TURN LANES)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTA· 317

SDD 15C08-23c

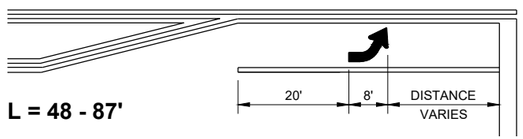
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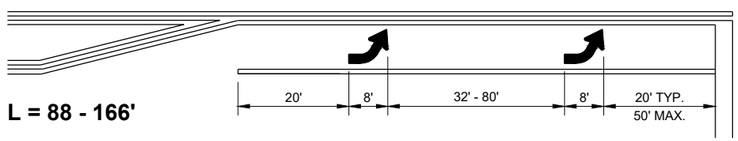
** (SEE TURN LANE OPTIONS FOR PLACEMENT OF PAVEMENT MARKING ARROWS AND WORDS)

TURN LANE OPTIONS

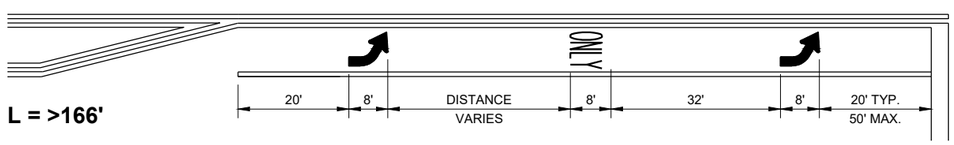
LENGTH OF TURN BAY (**L**) OF 0 - 47' DOES NOT REQUIRE PAVEMENT MARKING ARROWS OR WORDS



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

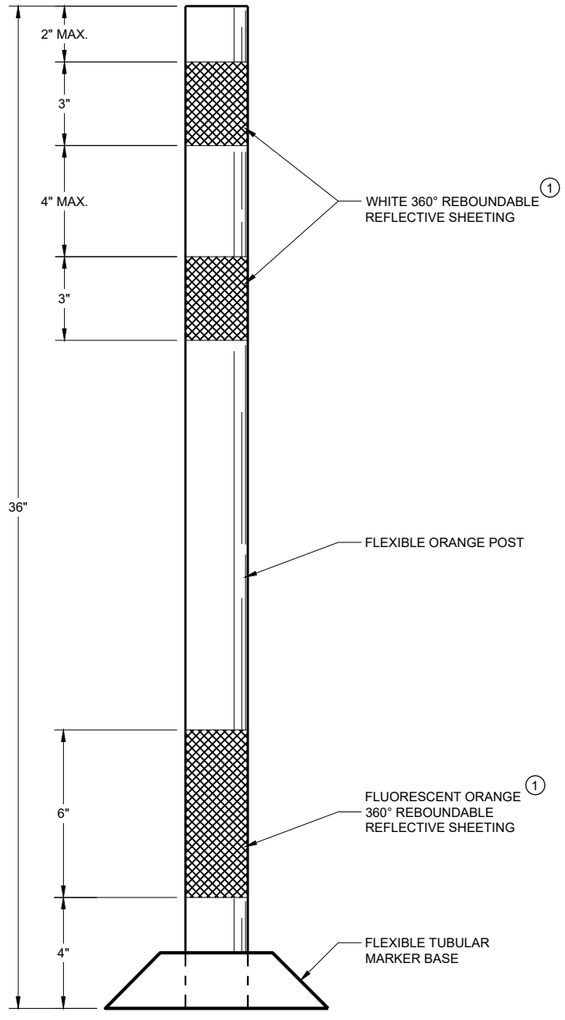
* CONFIRM MARKING LINE WIDTH WITH THE MISCELLANEOUS QUANTITIES

PAVEMENT MARKING (TURN LANES)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

SDD 15C08-23d



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.

CHANNELIZING DEVICES FLEXIBLE TUBULAR MARKER POST

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2022
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEER

FHWA

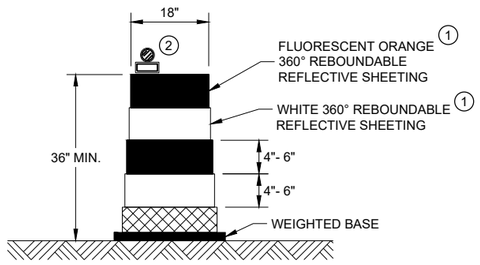
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SDD 15C11 - 10a

SDD 15C11 - 10a

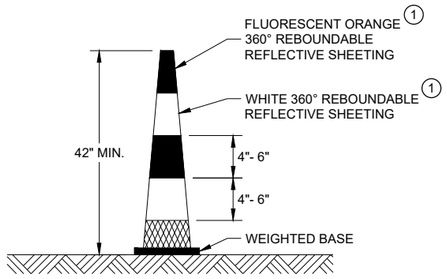
GENERAL NOTES

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

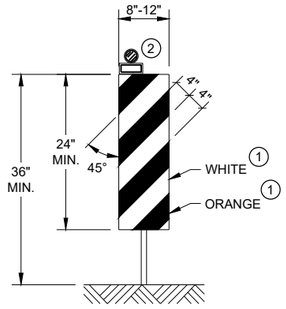
BALLAST WIDTHS
RANGE FROM 24"-36"



42" CONE

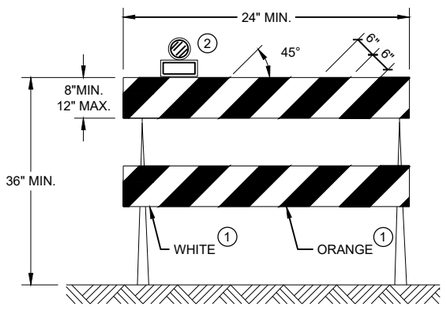
DO NOT USE IN TAPERS
½ SPACING OF DRUMS

BALLAST WIDTHS
RANGE FROM 14"-20"



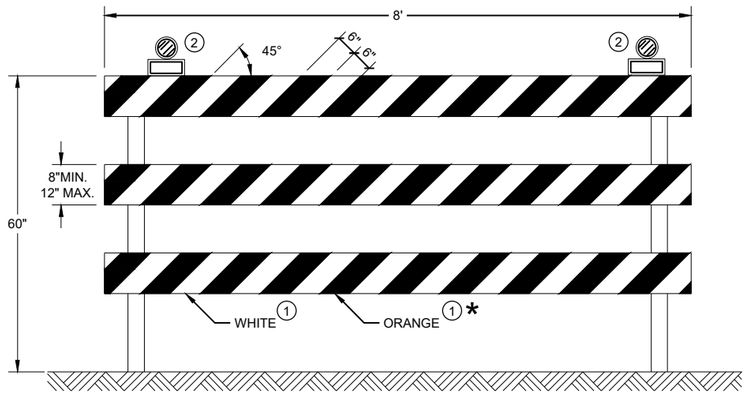
VERTICAL PANEL

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

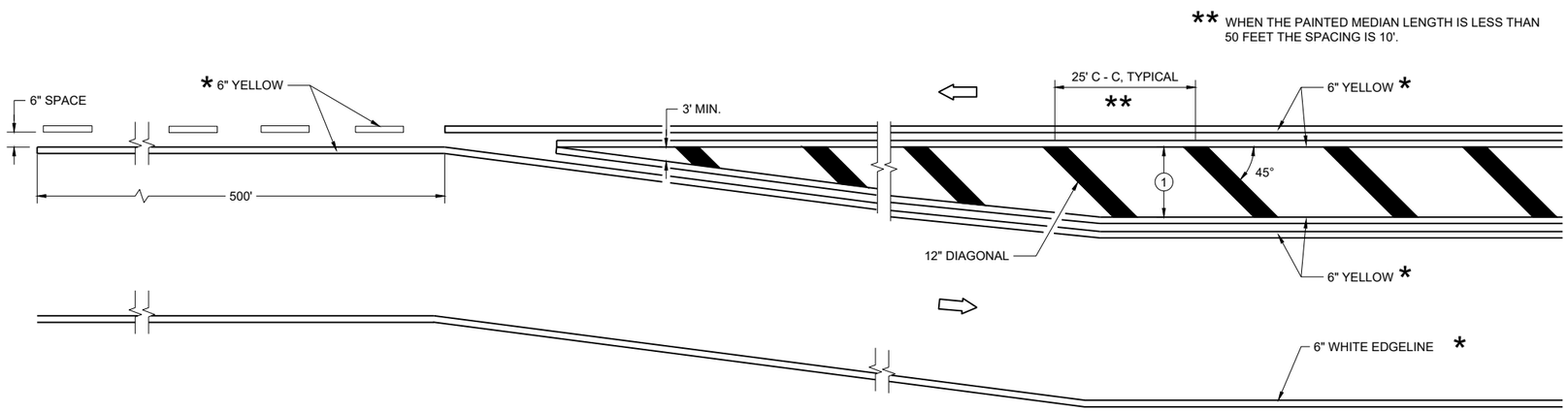
FHWA

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SDD 15C11 - 10b

6

SDD 15C11 - 10b



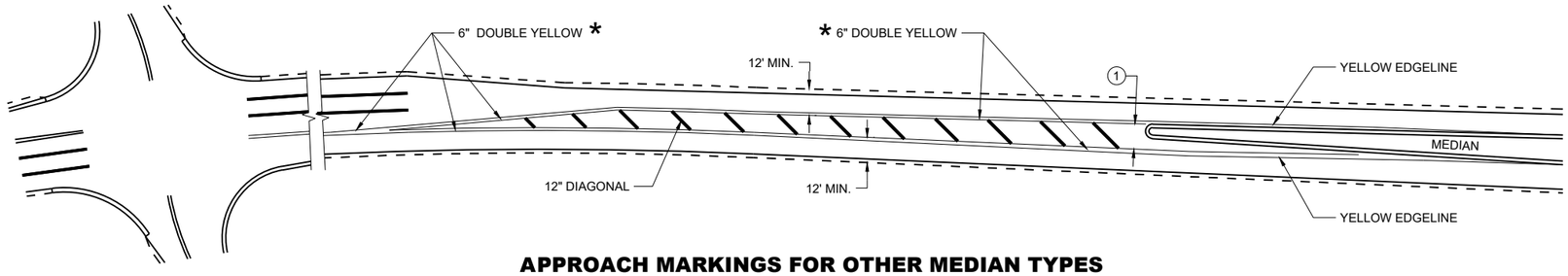
MEDIAN ISLAND DETAIL

GENERAL NOTES

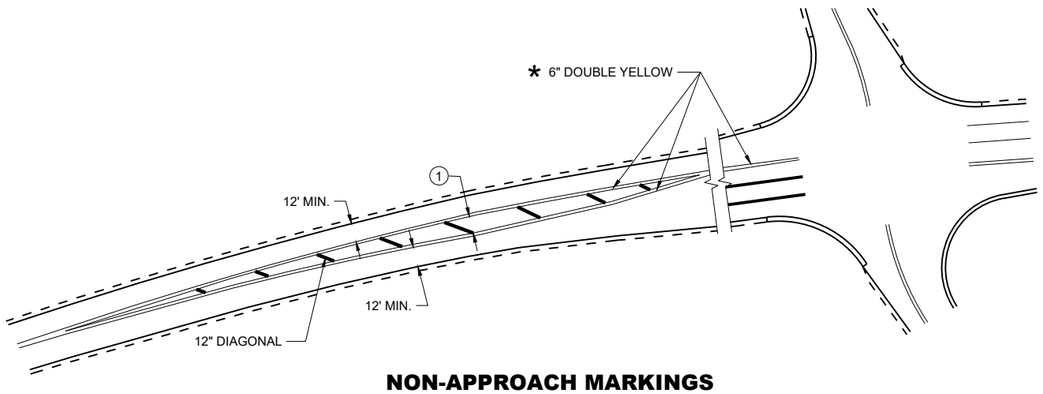
(1) DIAGONALS ARE OPTIONAL WHEN PAINTED ISLAND IS LESS THAN 6 FEET AT THE WIDEST POINT. OMIT DIAGONALS IF WIDTH IS LESS THAN 4 FEET.

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

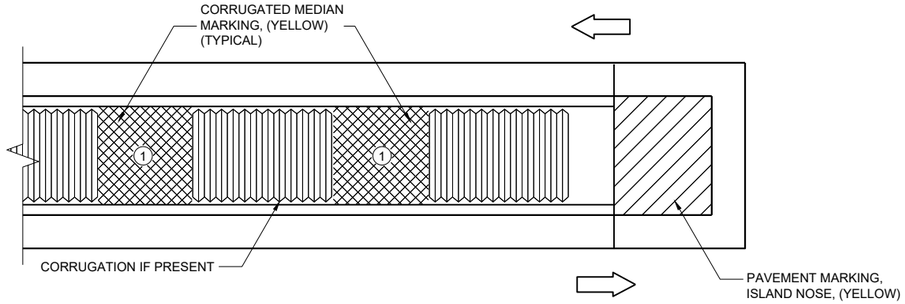
APPROVED
August 2024
DATE

/S/ Jeannie Silver
Statewide Pavement Marking Engineer

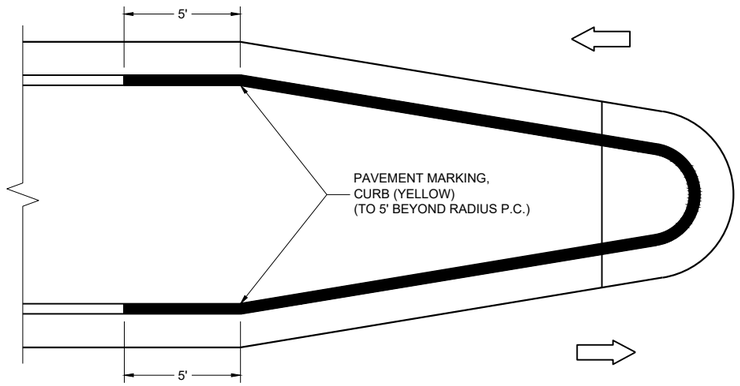
FHWA

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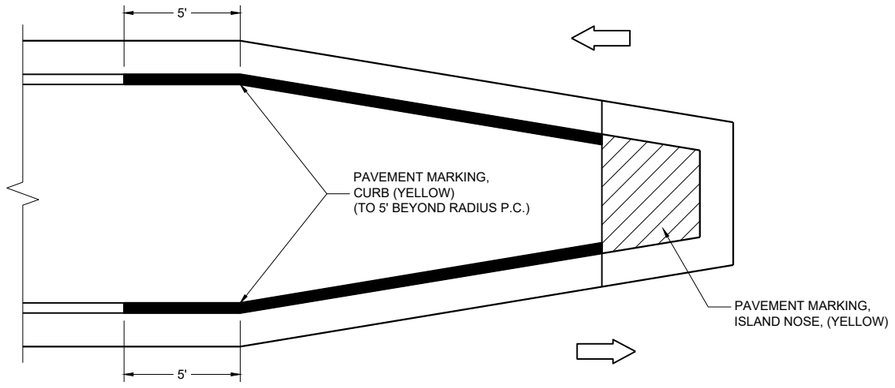
SDD 15C18-09a



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.

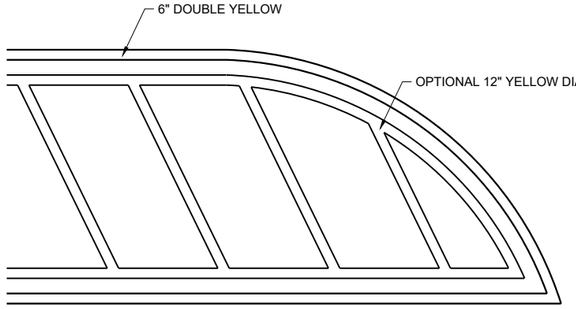
(1) APPLY PAVEMENT MARKING TO THE FLAT PORTION OF CORRUGATED MEDIAN.

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

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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.

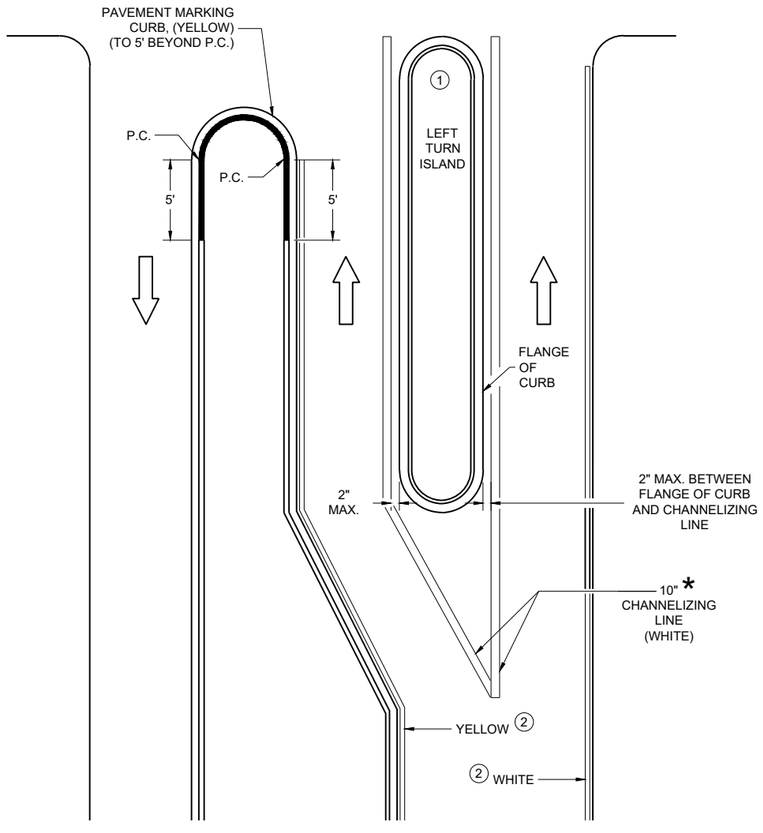
(1) MARK CURB NOSES YELLOW.

(2) MARK ACCORDING TO TABLE.

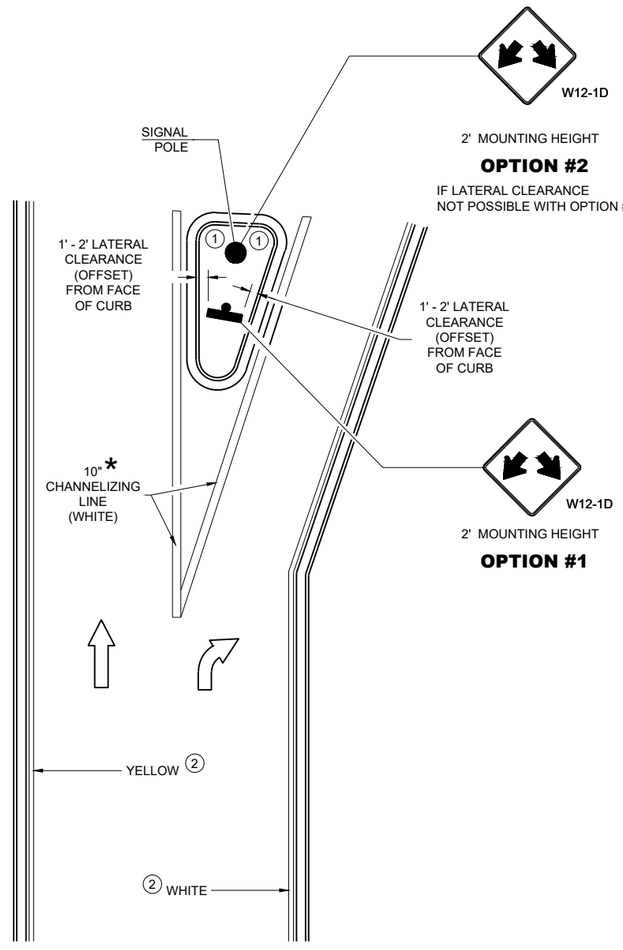
(3) CHEVRON MAY BE OMITTED IF LESS THAN 4" WIDE

DIRECTION OF TRAVEL

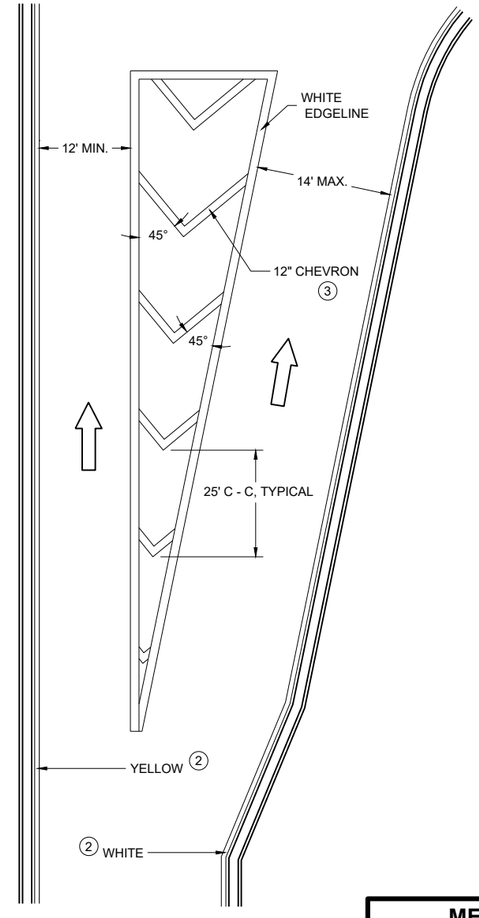
*CONFIRM MARKING LINE WIDTH WITH THE MISCELLANEOUS QUANTITIES



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

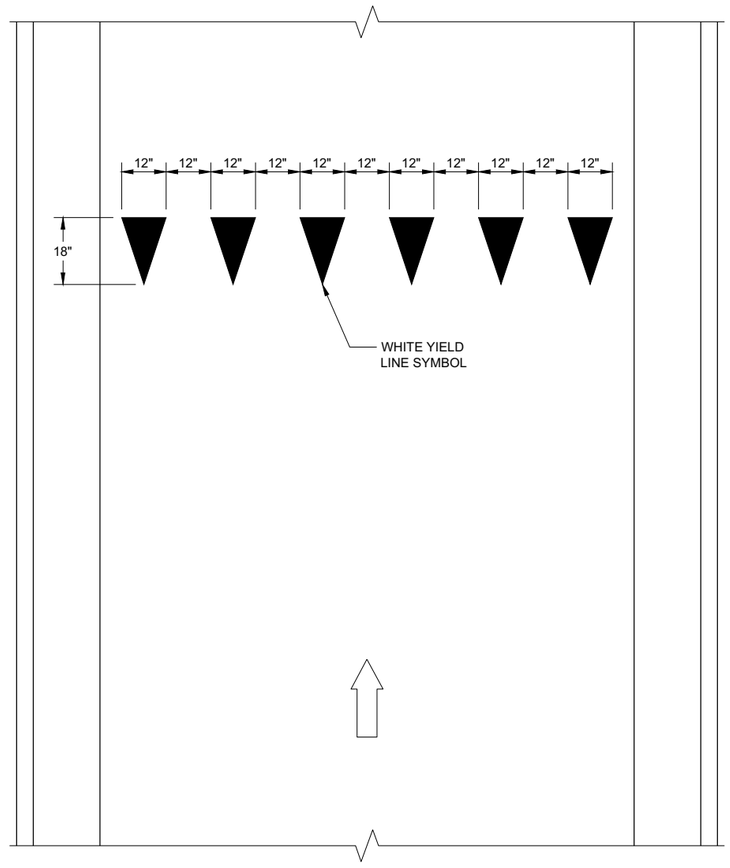
FHWA

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SDD 15C18-09c

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SDD 15C18-09c

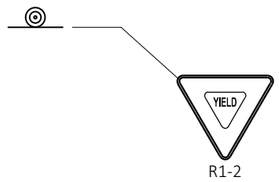


YIELD LINE

LEGEND

SIGN ON PERMANENT SUPPORT

DIRECTION OF TRAVEL



R1-2

YIELD MARKINGS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

4-81-2016
DATE

/S/ Matthew R. Rauch
STATE SIGNING AND MAR ENGINEER

FHWA

6

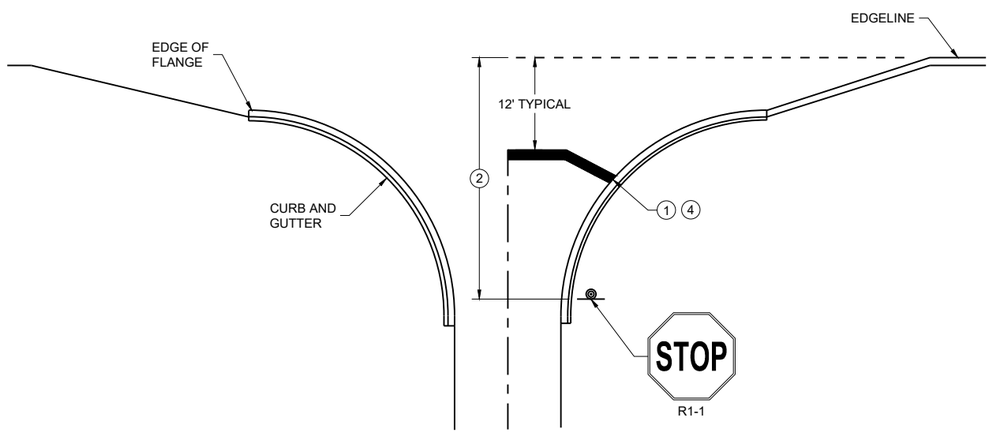
SDD 15C20 - 02

SDD 15C20 - 02

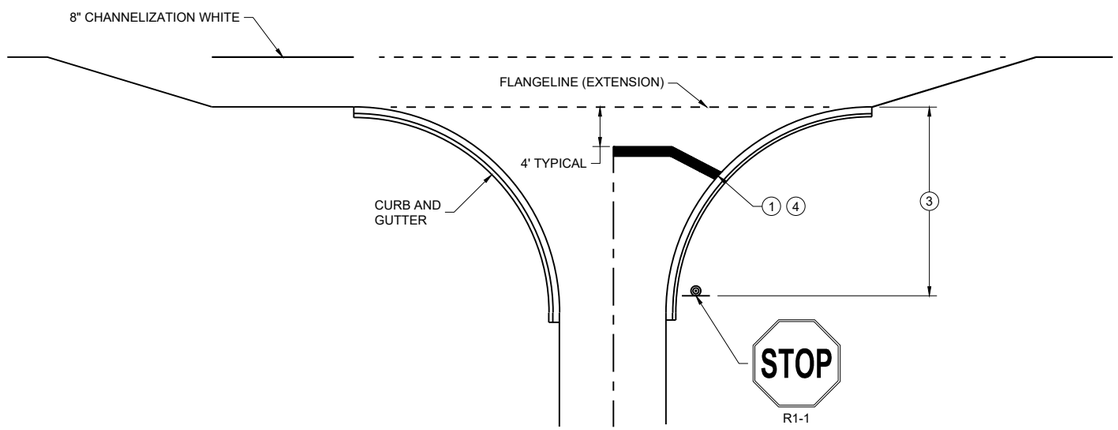
GENERAL NOTES

STOP SIGN SHALL BE PLACED A MINIMUM OF 6 FEET TO A MAXIMUM OF 50 FEET FROM THE EDGELINE LOCATION.

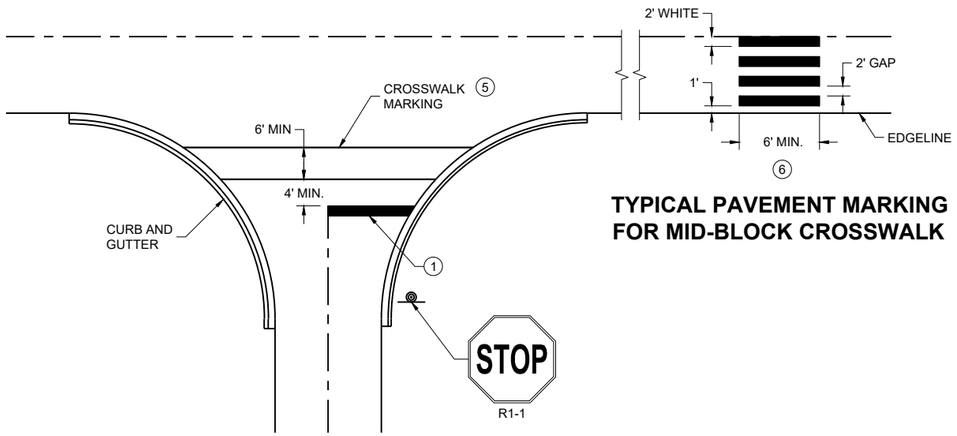
1. 18-INCH STOP LINES MAY BE DELETED OR ADDED BY THE REGION MARKING ENGINEER BASED ON VISIBILITY AND SIGHT LINES.
2. NO STOP LINE IS REQUIRED IF STOP SIGN IS LESS THAN OR EQUAL TO 40 FEET FROM THE EDGELINE.
3. NO STOP LINE IS REQUIRED IF STOP SIGN IS LESS THAN OR EQUAL TO 30 FEET FROM THE FLANGE LINE 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

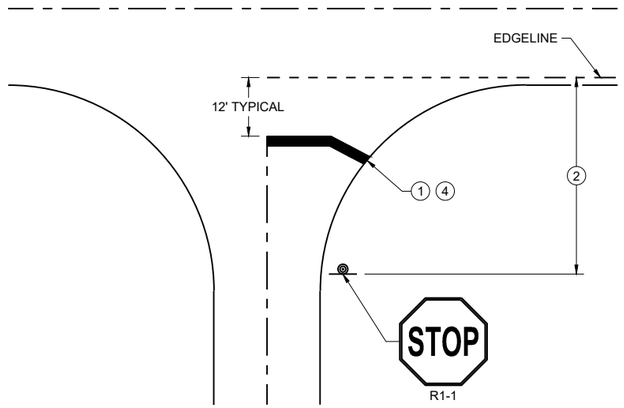


TYPICAL STOP LINE PAVEMENT MARKING FOR SIDE ROADS WITH RIGHT TURN LANE



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

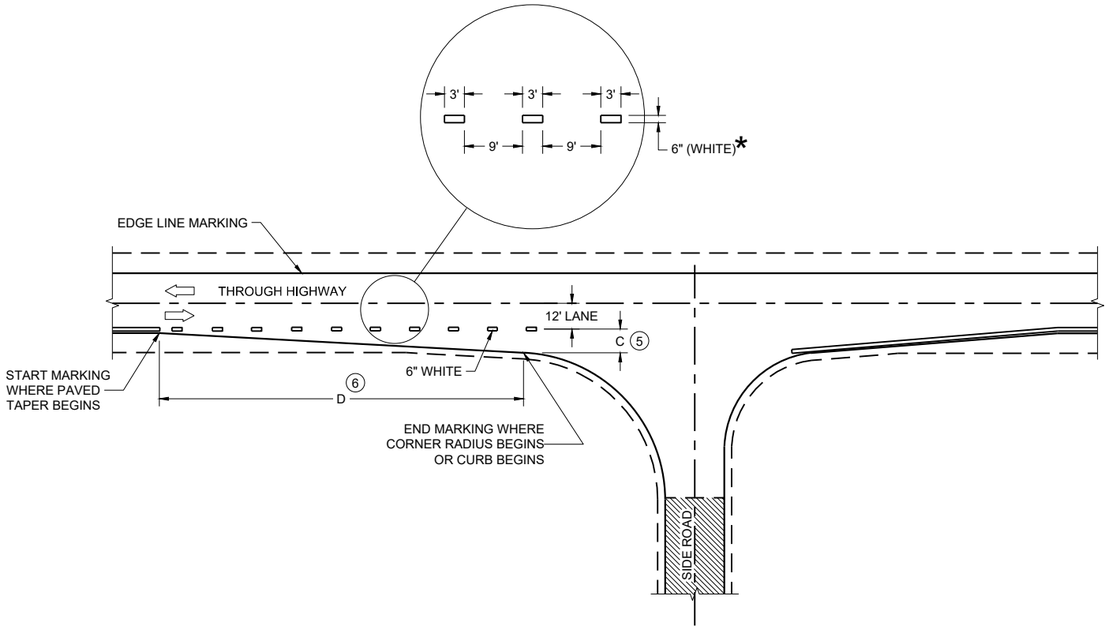
APPROVED

March 2024 — DATE

/S/ Matthew Rauch — STATE SIGNING AND MARKING ENGINEER

FHWA

6
SDD 15C33-05



MINOR INTERSECTION

*CONFIRM MARKING LINE WIDTH WITH THE MISCELLANEOUS QUANTITIES

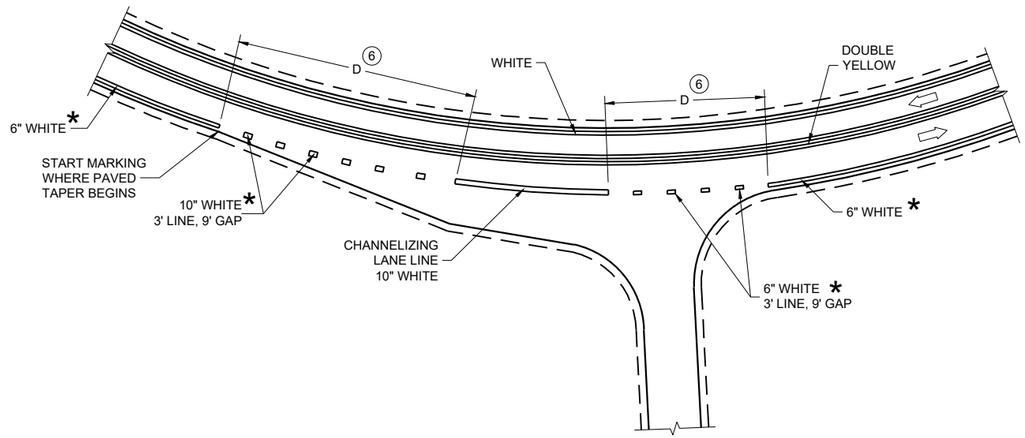
GENERAL NOTES

OMIT EDGE LINES THROUGH INTERSECTIONS. CONTINUE EDGE LINES THROUGH DRIVEWAYS.

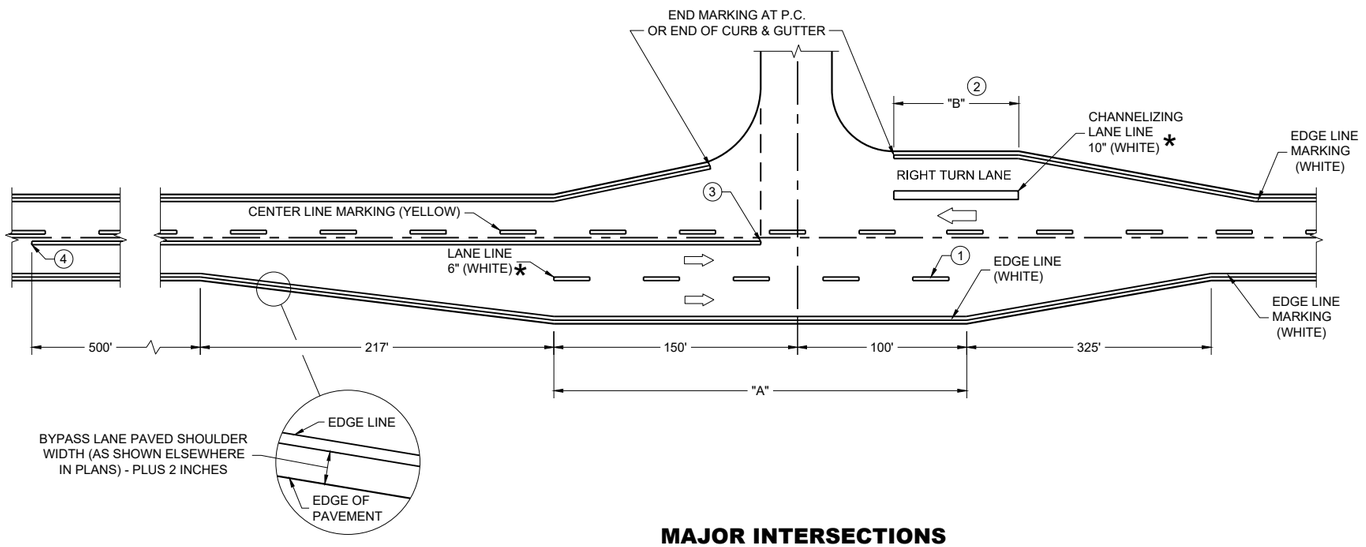
1. WHEN DISTANCE "A" IS LESS THAN 250 FEET, OMIT LANE LINE.
2. WHEN DISTANCE "B" IS LESS THAN 100 FEET, OMIT CHANNELIZING LANE LINE.
3. BARRIER LINE ENDS AT SIDE ROAD PAVEMENT / SURFACE EDGE EXTENSION.
4. BARRIER LINE STARTS 500 FEET PRIOR TO THE BYPASS TAPER.
5. WHEN DISTANCE "C" IS LESS THAN 4 FEET, OMIT DOTTED EXTENSION.
6. WHEN DISTANCE "D" IS LESS THAN 50 FEET, OMIT DOTTED EXTENSION.

LEGEND

DIRECTION OF TRAVEL



INTERSECTION ON OUTSIDE OF CURVE



MAJOR INTERSECTIONS

(INTERSECTION WITH FULL RIGHT TURN LANE OR BYPASS LANE)

PAVEMENT MARKING (INTERSECTIONS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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
- FLASHING ARROW BOARD
- DIRECTION OF TRAFFIC
- WORK AREA

GENERAL NOTES

FOR WORK ON ROADWAYS WITH SPEEDS GREATER THAN 45MPH, USE SDD 15D12.

THIS LANE CLOSURE DETAIL IS TYPICAL FOR CLOSING THE LEFT LANE. FOR A RIGHT LANE CLOSURE, REVERSE THE TRAFFIC CONTROL.

THIS DETAIL MAY BE USED FOR ROADWAYS WITH EITHER TWO OR THREE LANES IN EACH DIRECTION.

ALL SIGNS ARE 48"X48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS IN URBAN AREAS, 36"X 36" SIGNS MAY BE USED IF APPROVED BY REGIONAL TRAFFIC UNIT.

"WO" SIGN IS THE SAME AS "W" SIGN EXCEPT THE BACKGROUND IS ORANGE.

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. NO WARNING LIGHTS SHALL BE WORKING ON COVERED OR "DOWNED" SIGNS.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS OR THAT WILL BE PLACED IN A CLOSED LANE MAY BE MOUNTED ON TEMPORARY SUPPORTS.

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 TO PROVIDE A MINIMUM OF 200 FEET (500' DESIRABLE) DISTANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE

W20-1A, G20-1 AND G20-2A SIGNS ARE NOT REQUIRED IF THE LANE CLOSURE IS WITHIN A LARGER WORK ZONE WHERE THESE SIGNS ARE ALREADY PRESENT.

REMOVE PAVEMENT MARKINGS AND PLACE TEMPORARY PAVEMENT MARKING LINE IF LANE CLOSURE IS TO BE IN PLACE FOR 4 OR MORE CONTINUOUS DAYS AND NIGHTS.

CONSIDER GEOMETRICS WHEN LOCATING SIGNS AND ARROW BOARDS SO THE APPROACHING DRIVER HAS A CLEAR VIEW OF THE ARROW BOARDS AND LANE CLOSURE DRUMS FOR A MINIMUM 1500 FEET IN FRONT OF DRUMS.

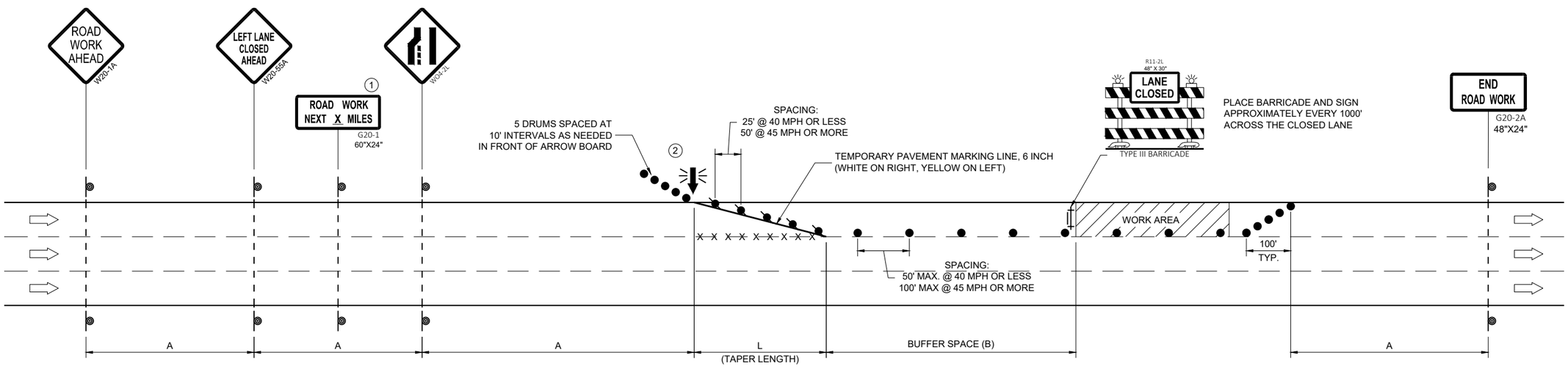
BARRICADES IN A CLOSED LANE THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY REESTABLISHED UPON COMPLETION OF THE OPERATION, OR FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

CHANNELIZING DEVICES PLACED ADJACENT TO WORK AREA SHALL BE PULLED BACK FROM THE TRAVEL LANE WHEN WORK IS NOT IN PROGRESS.

WARNING LIGHTS ARE NOT REQUIRED IF THE LANE CLOSURE IS A DAYTIME ONLY OPERATION.

(1) OMIT G20-1 SIGNS IF LENGTH OF WORK AREA IS 2 MILES OR LESS.

(2) WHERE THE SHOULDER OR TERRACE HAS INSUFFICIENT SPACE TO PLACE THE ARROW BOARD AS SHOWN, PLACE THE ARROW BOARD AT THE END OF THE TAPER.



POSTED SPEED LIMIT PRIOR TO WORK STARTING (MPH)	ADVANCE WARNING SIGN SPACING (A) FEET	TAPER LENGTH (12 FT. LANE) (L) FEET	BUFFER SPACE (B) FEET
25	200'	125'	55'
30	200'	180'	85'
35	350'	245'	120'
40	350'	320'	170'
45	500'	540'	220'

TRAFFIC CONTROL, SINGLE LANE CLOSURE, DIVIDED NON-FREEWAY/EXPRESSWAY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
March 2024
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEER

FHWA

6
SDD 15D20-08a

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
- FLASHING ARROW BOARD
- DIRECTION OF TRAFFIC
- WORK AREA

GENERAL NOTES

THIS DETAIL MAY BE USED FOR ROADWAYS WITH EITHER TWO OR THREE LANES IN EACH DIRECTION.

ALL SIGNS ARE 48"X48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS IN URBAN AREAS, 36"X 36" SIGNS MAY BE USED IF APPROVED BY REGIONAL TRAFFIC UNIT.

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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. NO WARNING LIGHTS SHALL BE WORKING ON COVERED OR "DOWNED" SIGNS.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS OR THAT WILL BE PLACED IN A CLOSED LANE MAY BE MOUNTED ON TEMPORARY SUPPORTS.

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 TO PROVIDE A MINIMUM OF 200 FEET (500' DESIRABLE) DISTANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE

W20-1A, G20-1 AND G20-2A SIGNS ARE NOT REQUIRED IF THE LANE CLOSURE IS WITHIN A LARGER WORK ZONE WHERE THESE SIGNS ARE ALREADY PRESENT.

REMOVE PAVEMENT MARKINGS AND PLACE TEMPORARY PAVEMENT MARKING LINE IF LANE CLOSURE IS TO BE IN PLACE FOR 4 OR MORE CONTINUOUS DAYS AND NIGHTS.

CONSIDER GEOMETRICS WHEN LOCATING SIGNS AND ARROW BOARDS SO THE APPROACHING DRIVER HAS A CLEAR VIEW OF THE ARROW BOARDS AND LANE CLOSURE DRUMS FOR A MINIMUM 1500 FEET IN FRONT OF DRUMS.

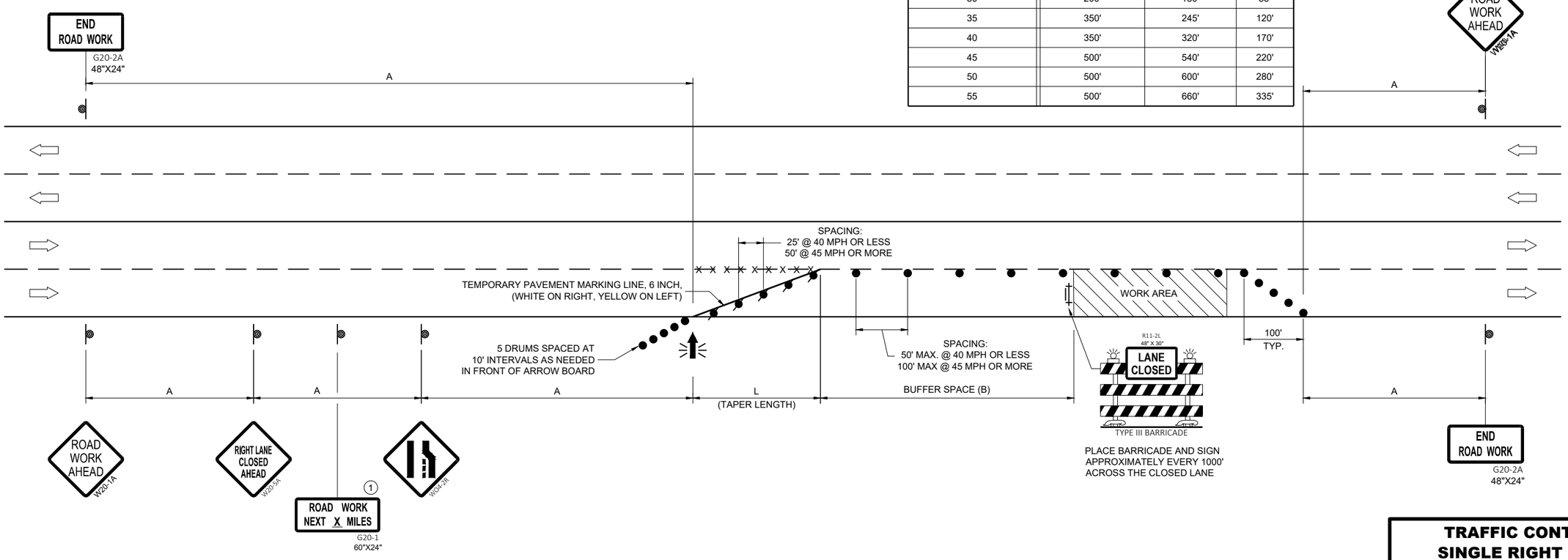
BARRICADES IN A CLOSED LANE THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY REESTABLISHED UPON COMPLETION OF THE OPERATION, OR FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

CHANNELIZING DEVICES PLACED ADJACENT TO WORK AREA SHALL BE PULLED BACK FROM THE TRAVEL LANE WHEN WORK IS NOT IN PROGRESS.

WARNING LIGHTS ARE NOT REQUIRED IF THE LANE CLOSURE IS A DAYTIME ONLY OPERATION.

(1) OMIT G20-1 SIGNS IF LENGTH OF WORK AREA IS 2 MILES OR LESS.

POSTED SPEED LIMIT PRIOR TO WORK STARTING (MPH)	ADVANCE WARNING SIGN SPACING (A) FEET	TAPER LENGTH (12 FT. LANE) (L) FEET	BUFFER SPACE (B) FEET
25	200'	125'	55'
30	200'	180'	85'
35	350'	245'	120'
40	350'	320'	170'
45	500'	540'	220'
50	500'	600'	280'
55	500'	660'	335'



TRAFFIC CONTROL, SINGLE RIGHT LANE CLOSURE, UNDIVIDED NON-FREEWAY/EXPRESSWAY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

March 2024
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEER

FHWA

6

SDD 15D20-08b

6

SDD 15D20-08b

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
- FLASHING ARROW BOARD
- DIRECTION OF TRAFFIC
- WORK AREA

GENERAL NOTES

THIS DETAIL MAY BE USED FOR ROADWAYS WITH EITHER TWO OR THREE LANES IN EACH DIRECTION.

ALL SIGNS ARE 48"X48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS IN URBAN AREAS, 36"X 36" SIGNS MAY BE USED IF APPROVED BY REGIONAL TRAFFIC UNIT.

"WO" SIGN IS THE SAME AS "W" SIGN EXCEPT THE BACKGROUND IS ORANGE.

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. NO WARNING LIGHTS SHALL BE WORKING ON COVERED OR "DOWNED" SIGNS.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS OR THAT WILL BE PLACED IN A CLOSED LANE MAY BE MOUNTED ON TEMPORARY SUPPORTS.

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 TO PROVIDE A MINIMUM OF 200 FEET (500' DESIRABLE) DISTANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

W20-1A, G20-1 AND G20-2A SIGNS ARE NOT REQUIRED IF THE LANE CLOSURE IS WITHIN A LARGER WORK ZONE WHERE THESE SIGNS ARE ALREADY PRESENT.

REMOVE PAVEMENT MARKINGS AND PLACE TEMPORARY PAVEMENT MARKING LINE IF LANE CLOSURE IS TO BE IN PLACE FOR 4 OR MORE CONTINUOUS DAYS AND NIGHTS.

CONSIDER GEOMETRICS WHEN LOCATING SIGNS AND ARROW BOARDS SO THE APPROACHING DRIVER HAS A CLEAR VIEW OF THE ARROW BOARDS AND LANE CLOSURE DRUMS FOR A MINIMUM 1500 FEET IN FRONT OF DRUMS.

DUE TO LACK OF SHOULDER/MEDIAN, ARROW BOARD IS PLACED AT THE THE END OF THE TAPER.

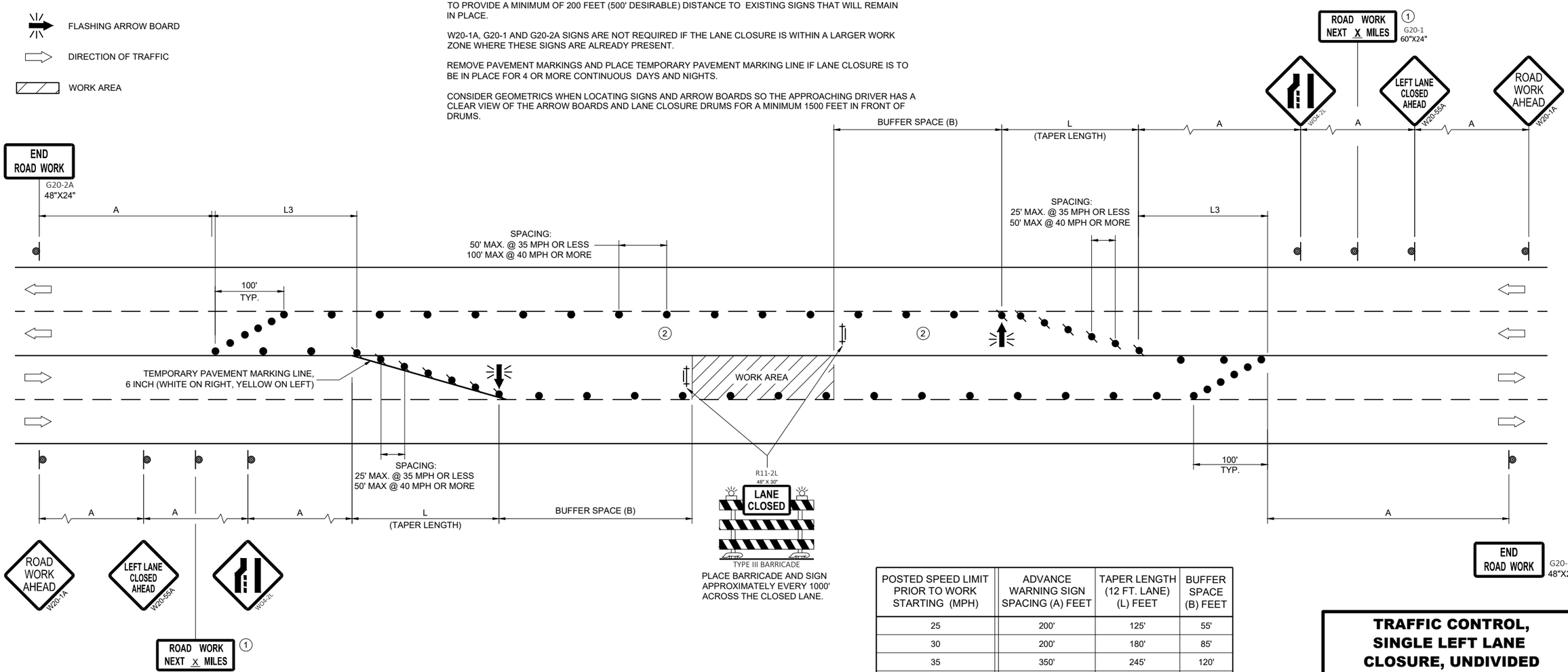
BARRICADES IN A CLOSED LANE THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY REESTABLISHED UPON COMPLETION OF THE OPERATION, OR FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

CHANNELIZING DEVICES PLACED ADJACENT TO WORK AREA SHALL BE PULLED BACK FROM THE TRAVEL LANE WHEN WORK IS NOT IN PROGRESS.

WARNING LIGHTS ARE NOT REQUIRED IF THE LANE CLOSURE IS A DAYTIME ONLY OPERATION.

(1) OMIT G20-1 SIGNS IF LENGTH OF WORK AREA IS 2 MILES OR LESS.

(2) LANE MAY BE OPENED WHEN WORKERS ARE NOT PRESENT IN THE WORK AREA.



POSTED SPEED LIMIT PRIOR TO WORK STARTING (MPH)	ADVANCE WARNING SIGN SPACING (A) FEET	TAPER LENGTH (12 FT. LANE) (L) FEET	BUFFER SPACE (B) FEET
25	200'	125'	55'
30	200'	180'	85'
35	350'	245'	120'
40	350'	320'	170'
45	500'	540'	220'
50	500'	600'	280'
55	500'	660'	335'

TRAFFIC CONTROL, SINGLE LEFT LANE CLOSURE, UNDIVIDED NON-FREEWAY/EXPRESSWAY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

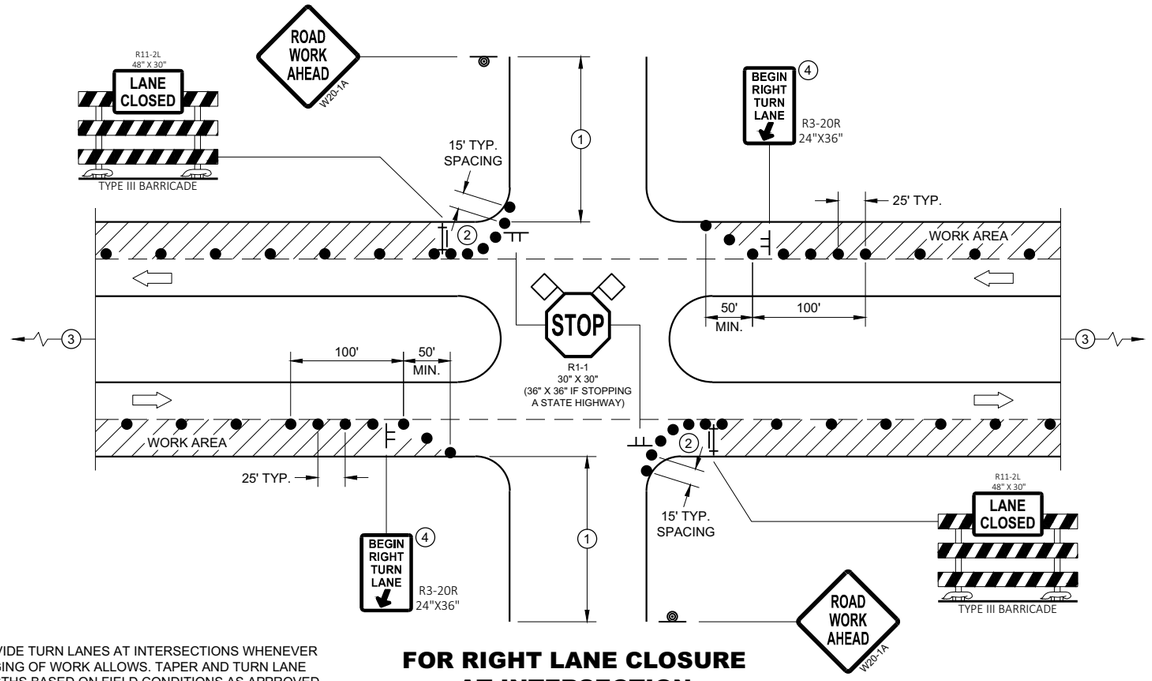
APPROVED

March 2024
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEER

FHWA

6
SDD 15D20-08c



PROVIDE TURN LANES AT INTERSECTIONS WHENEVER STAGING OF WORK ALLOWS. TAPER AND TURN LANE LENGTHS BASED ON FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

FOR RIGHT LANE CLOSURE AT INTERSECTION

GENERAL NOTES

ALL SIGNS ARE 48"X48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS IN URBAN AREAS, 36" X 36" MAY BE USED IF APPROVED BY THE DISTRICT TRAFFIC UNIT.

"WO" SIGN IS THE SAME AS "W" SIGN EXCEPT THE BACKGROUND IS ORANGE.

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. NO WARNING LIGHTS SHALL BE WORKING ON COVERED OR "DOWNED" SIGNS.

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 TO PROVIDE A MINIMUM OF 200 FEET (500' DESIRABLE) DISTANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE

SIGN LAYOUTS SHALL BE IN ACCORDANCE WITH THE FHWA'S MANUAL OF STANDARD HIGHWAY SIGNS OR THE WISCONSIN STANDARD SIGN PLATES.

SIGNS THAT WILL REMAIN IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS OR THAT WILL BE PLACED IN A CLOSED LANE MAY BE MOUNTED ON PORTABLE SUPPORTS.

BARRICADES 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.

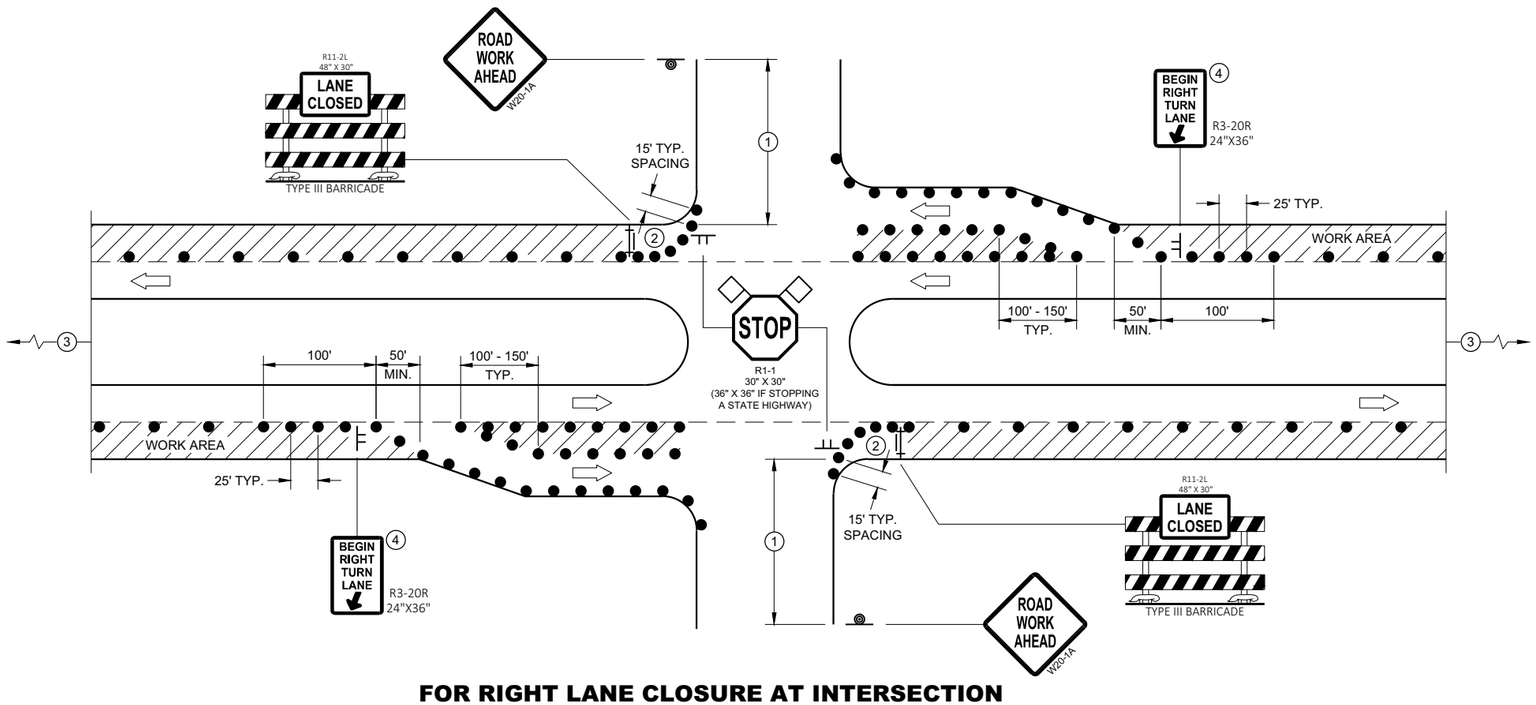
CHANNELIZING DEVICES PLACED ADJACENT TO WORK AREA SHALL BE PULLED BACK FROM THE TRAVEL LANE WHEN WORK IS NOT IN PROGRESS.

(1) 500' TYPICAL OR AT LAST INTERSECTION, WHICHEVER IS CLOSER.
350' IF 35 - 40 MPH.
200' IF 25 - 30 MPH.

(2) ALSO USE BARRICADE AND 15 FOOT TYPICAL DRUM SPACING AT COMMERCIAL DRIVEWAYS

(3) SEE SEPARATE LANE CLOSURE DETAIL FOR ADDITIONAL TRAFFIC CONTROL.

(4) MINIMUM MOUNTING HEIGHT OF 5 FEET FROM EDGE OF PAVEMENT (AT EDGE LINE LOCATION) TO BOTTOM OF SIGN.



FOR RIGHT LANE CLOSURE AT INTERSECTION (WITH RIGHT TURN BAY OPEN)

LEGEND

- SIGN ON TEMPORARY SUPPORT
- SIGN ON PERMANENT SUPPORT
- TRAFFIC CONTROL DRUM
- TYPE III BARRICADE WITH ATTACHED SIGN
- DIRECTION OF TRAFFIC
- FLAGS, 16" X 16" MIN., ORANGE
- WORK AREA

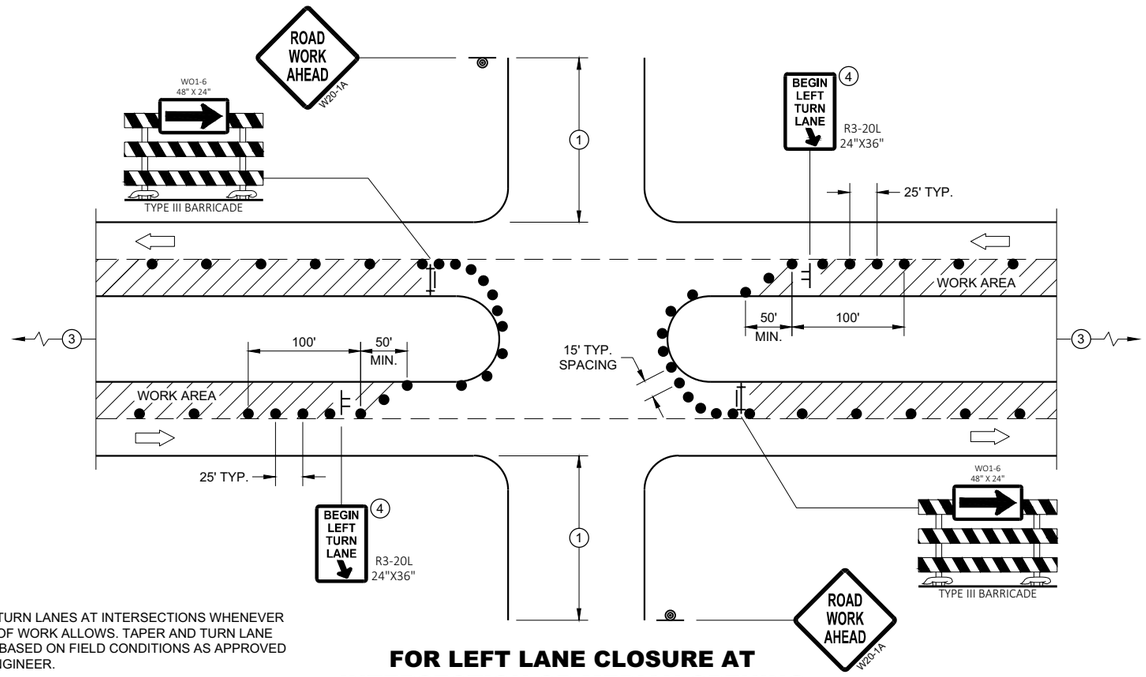
TRAFFIC CONTROL, INTERSECTION WITHIN SINGLE RIGHT LANE CLOSURE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

SDD 15D21 - 07a

SDD 15D21 - 07a



PROVIDE TURN LANES AT INTERSECTIONS WHENEVER STAGING OF WORK ALLOWS. TAPER AND TURN LANE LENGTHS BASED ON FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

FOR LEFT LANE CLOSURE AT INTERSECTION OR MEDIAN OPENING

GENERAL NOTES

ALL SIGNS ARE 48"X48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS IN URBAN AREAS, 36" X 36" MAY BE USED IF APPROVED BY THE DISTRICT TRAFFIC UNIT.

"WO" SIGN IS THE SAME AS "W" SIGN EXCEPT THE BACKGROUND IS ORANGE.

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. NO WARNING LIGHTS SHALL BE WORKING ON COVERED OR "DOWNED" SIGNS.

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 TO PROVIDE A MINIMUM OF 200 FEET (500' DESIRABLE) DISTANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE

SIGN LAYOUTS SHALL BE IN ACCORDANCE WITH THE FHWA'S MANUAL OF STANDARD HIGHWAY SIGNS OR THE WISCONSIN STANDARD SIGN PLATES.

SIGNS THAT WILL REMAIN IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS OR THAT WILL BE PLACED IN A CLOSED LANE MAY BE MOUNTED ON PORTABLE SUPPORTS.

BARRICADES 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.

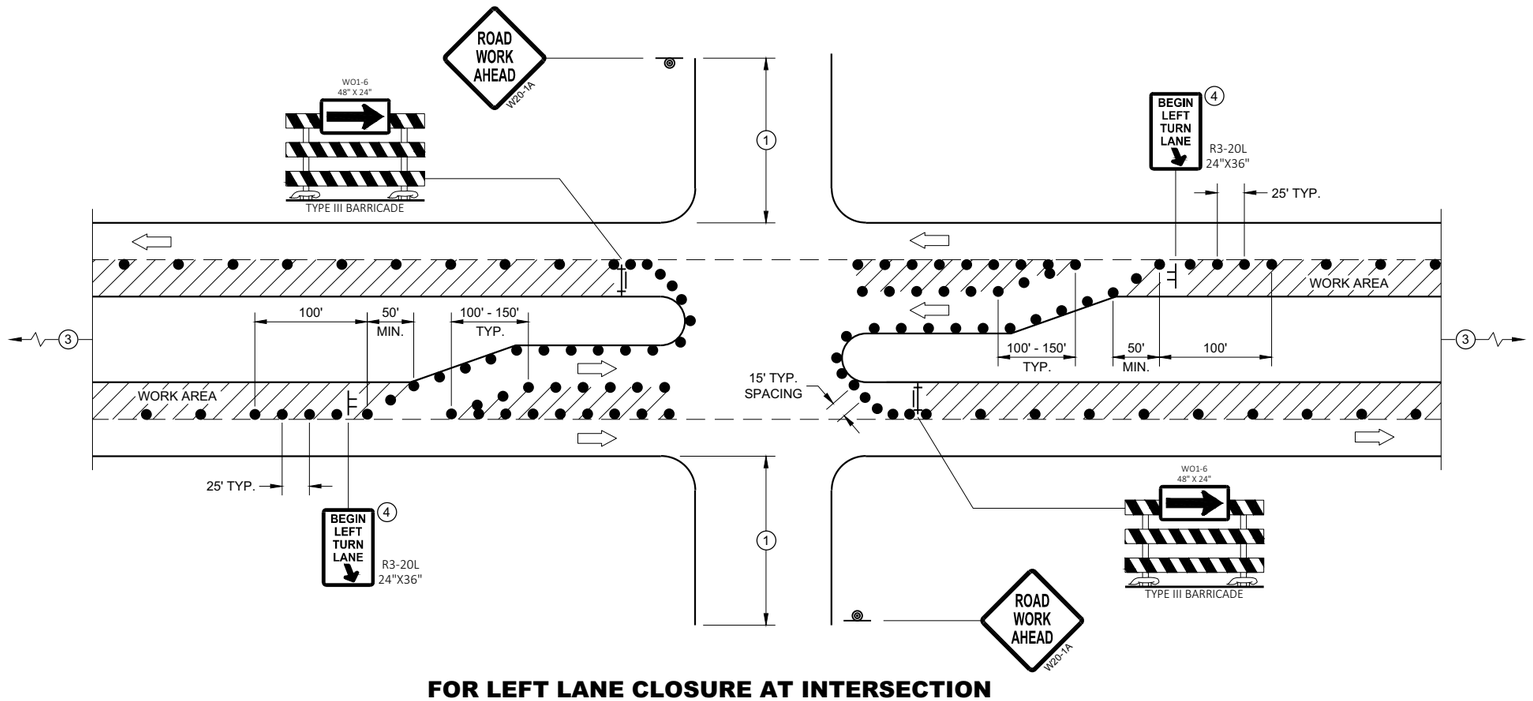
CHANNELIZING DEVICES PLACED ADJACENT TO WORK AREA SHALL BE PULLED BACK FROM THE TRAVEL LANE WHEN WORK IS NOT IN PROGRESS.

(1) 500' TYPICAL OR AT LAST INTERSECTION, WHICHEVER IS CLOSER.
350' IF 35 - 40 MPH.
200' IF 25 - 30 MPH.

(2) ALSO USE BARRICADE AND 15 FOOT TYPICAL DRUM SPACING AT COMMERCIAL DRIVEWAYS

(3) SEE SEPARATE LANE CLOSURE DETAIL FOR ADDITIONAL TRAFFIC CONTROL.

(4) MINIMUM MOUNTING HEIGHT OF 5 FEET FROM EDGE OF PAVEMENT (AT EDGE LINE LOCATION) TO BOTTOM OF SIGN.



FOR LEFT LANE CLOSURE AT INTERSECTION OR MEDIAN OPENING (WITH LEFT TURN BAY OPEN)

LEGEND

- SIGN ON TEMPORARY SUPPORT
- SIGN ON PERMANENT SUPPORT
- TRAFFIC CONTROL DRUM
- TYPE III BARRICADE WITH ATTACHED SIGN
- DIRECTION OF TRAFFIC
- FLAGS, 16" X 16" MIN., ORANGE
- WORK AREA

TRAFFIC CONTROL, INTERSECTION WITHIN SINGLE LEFT LANE CLOSURE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
August 2020
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEER

FHWA

6

SDD 15D21 - 07b

6

SDD 15D21 - 07b

GENERAL NOTES

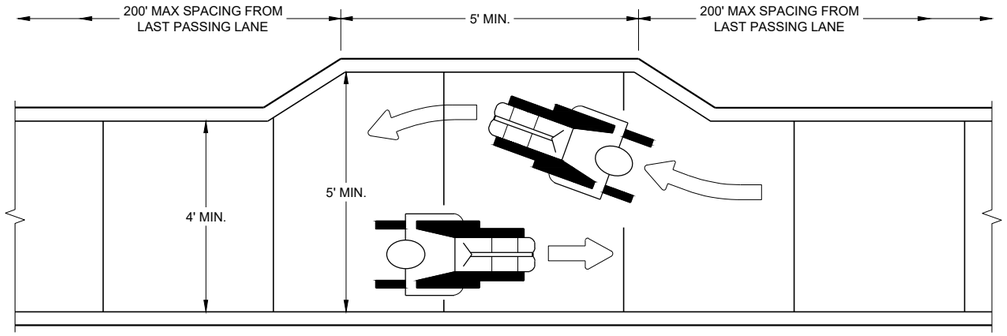
BARRICADE DEVICE SELECTED FROM APPROVED PRODUCT LIST

(1) REFLECTIVE SHEETING SHALL FOLLOW THE REQUIREMENTS IN THE APPROVED PRODUCTS LISTING FOR SIGN SHEETING.

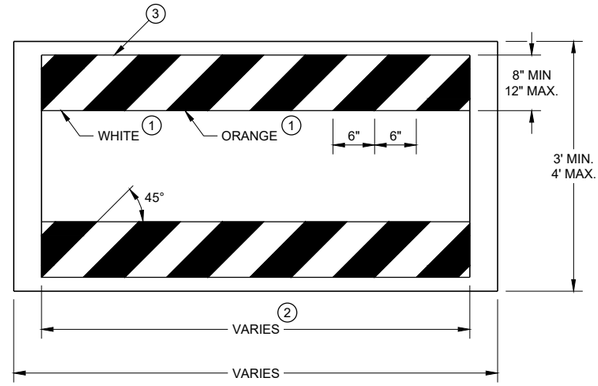
(2) SHEETING REQUIRED ON MORE THAN 50% OF BARRICADE WIDTH.

(3) PLACE SHEETING ON BOTH SIDES OF THE BARRICADE.

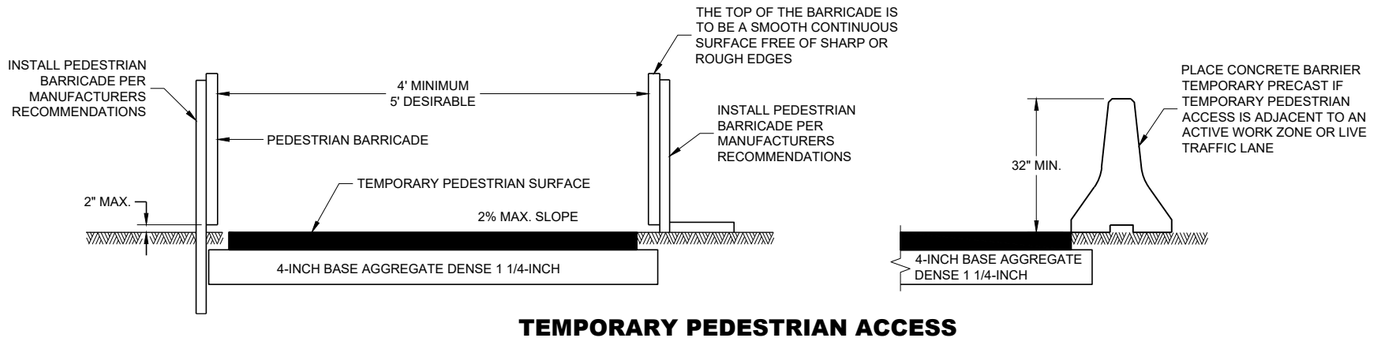
* USE THIS DETAIL FOR SHEETING PLACEMENT REFERENCE.



NARROW SIDEWALK PASSING DETAIL



TEMPORARY PEDESTRIAN BARRICADE*

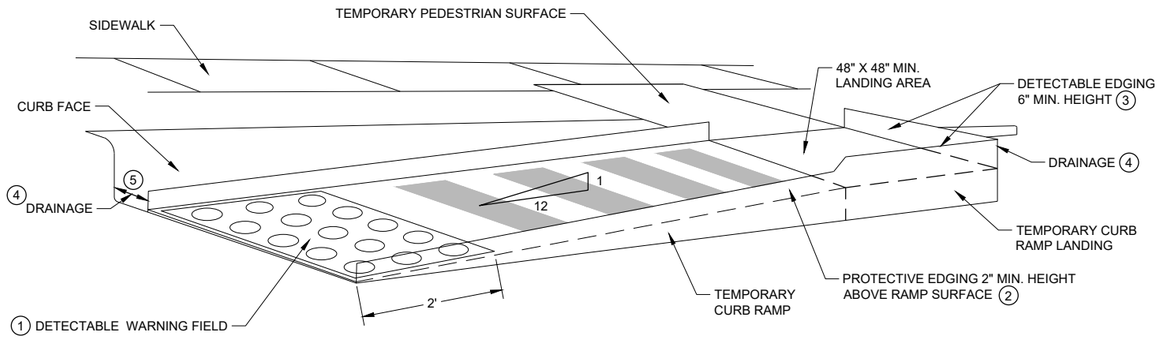


TEMPORARY PEDESTRIAN ACCESS

TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION

6

SDD 15D30 - 09a



PERSPECTIVE VIEW

GENERAL NOTES

CURB RAMPS SHALL BE 48" MIN. WIDTH WITH A FIRM, STABLE AND SLIP RESISTANT SURFACE.

CURB RAMPS AND LANDINGS SHALL HAVE A 1:50 (2%) MAX. CROSS-SLOPE.

CLEAR SPACE OF 48" X 48" SHALL BE PROVIDED ABOVE AND BELOW THE CURB RAMP.
LATERAL JOINTS OR GAPS BETWEEN SURFACES SHALL BE LESS THAN ½" WIDTH.

CHANGES BETWEEN SURFACE HEIGHTS SHALL NOT EXCEED ½". LATERAL EDGES MAY BE VERTICAL UP TO ¼" HIGH AND SHALL BE BEVELED AT 1:2 BETWEEN ¼" AND ½".

(1) INSTALL CONTRASTING TEMPORARY DETECTABLE WARNING FIELD AT PEDESTRIAN STREET CROSSINGS, AS SHOWN IN THE PLANS.

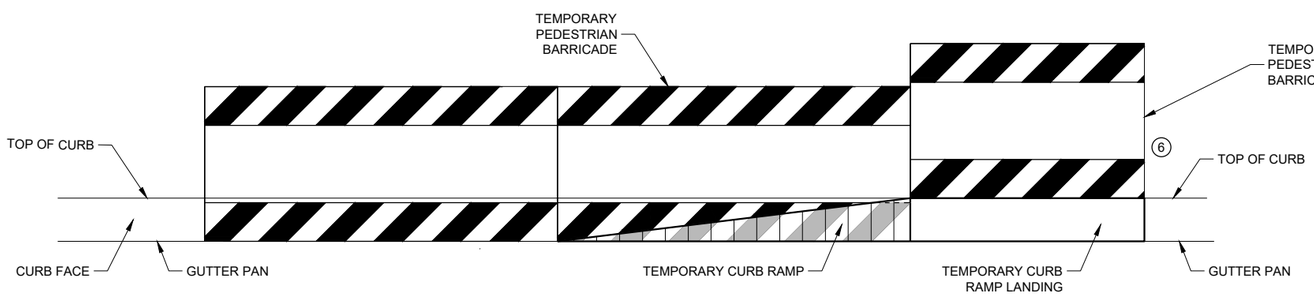
(2) PROTECTIVE EDGING WITH A 2" MIN. HEIGHT SHALL BE INSTALLED WHEN A CURB RAMP OR LANDING PLATFORM HAS A VERTICAL DROP OF 6" OR GREATER OR HAS A SIDE APRON SLOPE STEEPER THAN 1:3 (33%). PROTECTIVE EDGING SHOULD BE CONSIDERED WHEN CURB RAMPS OR LANDING PLATFORMS HAVE A VERTICAL DROP OF 3" OR MORE.

(3) DETECTABLE EDGING WITH 6" MIN. HEIGHT AND CONTRASTING COLOR SHALL BE INSTALLED ON ALL CURB RAMP LANDINGS WHERE THE WALKWAY CHANGES DIRECTION (TURNS).

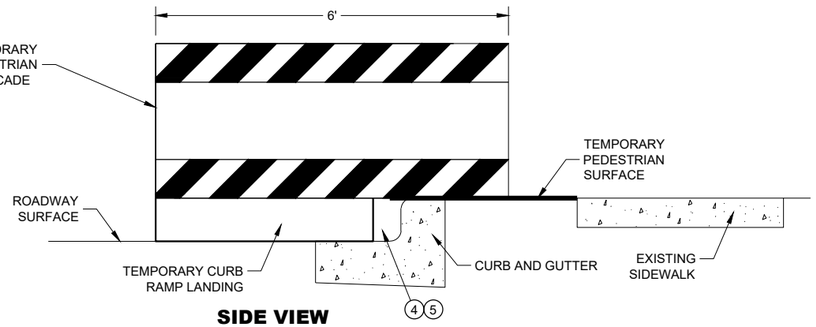
(4) DO NOT RESTRICT WATER FLOW IN THE GUTTER SYSTEM.

(5) ENSURE CURB RAMP IS OUT OF THE GUTTER PAN.

(6) IF ONLY PART OF THE END PANEL OF TEMPORARY PEDESTRIAN BARRICADE PANEL IS NEEDED, EXTEND EXCESS PORTION OF TEMPORARY PEDESTRIAN BARRICADE PANEL HERE.



FRONT VIEW



SIDE VIEW

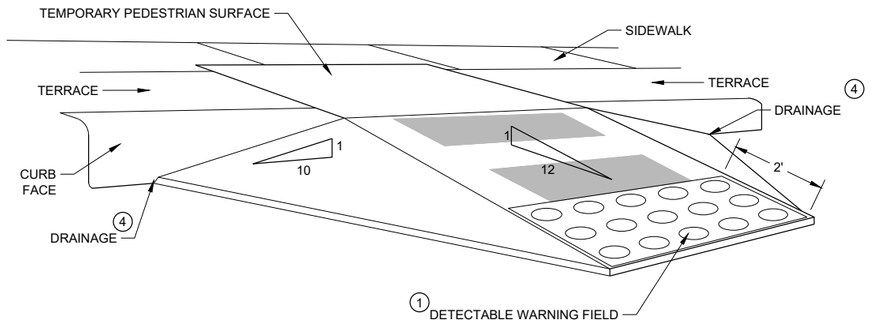
TEMPORARY CURB RAMP PARALLEL TO CURB

TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION

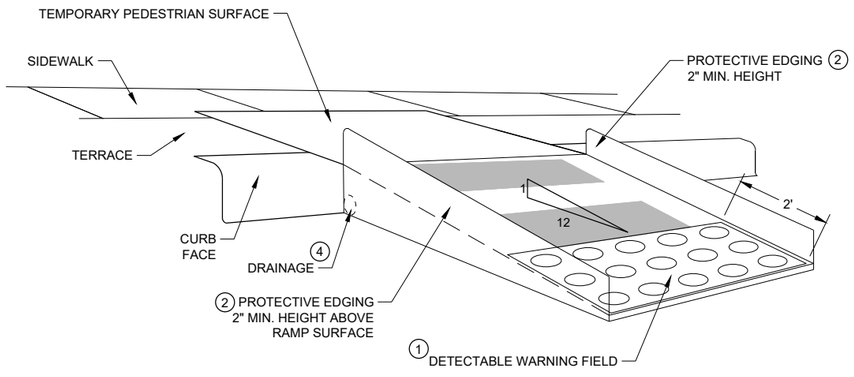
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

SDD 15D30 - 09b



WITH SIDE APRON (5)



WITH PROTECTIVE EDGE

TEMPORARY CURB RAMP PERPENDICULAR TO CURB

GENERAL NOTES

CURB RAMPS SHALL BE 48" MINIMUM WIDTH WITH A FIRM, STABLE AND SLIP RESISTANT SURFACE.

ALTERNATE SIDEWALK WORK BETWEEN LEFT AND RIGHT SIDE OF ROADWAY TO MAINTAIN PEDESTRIAN ACCESS.

CURB RAMPS AND LANDINGS SHALL HAVE A 1:50 (2%) MAX. CROSS-SLOPE.

CLEAR SPACE OF 48" X 48" SHALL BE PROVIDED ABOVE AND BELOW THE CURB RAMP.

LATERAL JOINTS OR GAPS BETWEEN SURFACES SHALL BE LESS THAN ½" WIDTH.

CHANGES BETWEEN SURFACE HEIGHTS SHALL NOT EXCEED ½". LATERAL EDGES MAY BE VERTICAL UP TO ¼" HIGH AND SHALL BE BEVELED AT 1:2 BETWEEN ¼" AND ½".

(1) INSTALL CONTRASTING TEMPORARY DETECTABLE WARNING FIELD AT PEDESTRIAN STREET CROSSINGS, AS SHOWN IN THE PLANS

(2) PROTECTIVE EDGING WITH A 2" MIN. HEIGHT SHALL BE INSTALLED WHEN A CURB RAMP OR LANDING PLATFORM HAS A VERTICAL DROP OF 6" OR GREATER OR HAS A SIDE APRON SLOPE STEEPER THAN 1:3 (33%). PROTECTIVE EDGING SHOULD BE CONSIDERED WHEN CURB RAMPS OR LANDING PLATFORMS HAVE A VERTICAL DROP OF 3" OR MORE.

(3) DETECTABLE EDGING WITH 6" MIN. HEIGHT AND CONTRASTING COLOR SHALL BE INSTALLED ON ALL CURB RAMP LANDINGS WHERE THE WALKWAY CHANGES DIRECTION (TURNS).

(4) DO NOT RESTRICT WATER FLOW IN THE GUTTER SYSTEM.

(5) CAN ONLY BE USED FOR RAMPS WITH 6" OR LESS OF VERTICAL CHANGE.

GENERAL NOTES

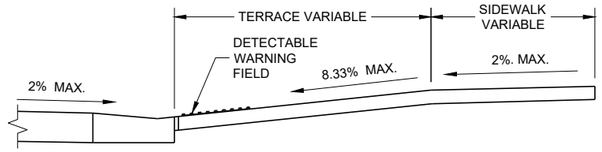
BARRICADE DEVICE SELECTED FROM APPROVED PRODUCT LIST

(1) REFLECTIVE SHEETING SHALL FOLLOW THE REQUIREMENTS IN THE APPROVED PRODUCTS LISTING FOR SIGN SHEETING.

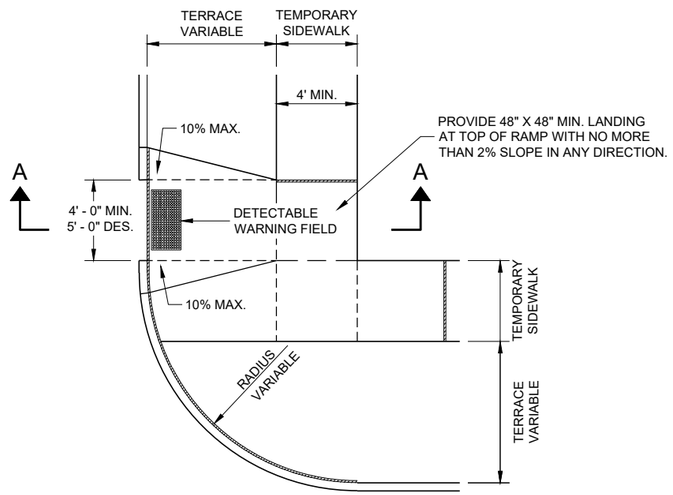
(2) SHEETING REQUIRED ON MORE THAN 50% OF BARRICADE WIDTH.

(3) PLACE SHEETING ON BOTH SIDES OF THE BARRICADE.

* USE THIS DETAIL FOR SHEETING PLACEMENT REFERENCE.



SECTION A - A



PLAN VIEW

TEMPORARY TYPE 3 RAMP

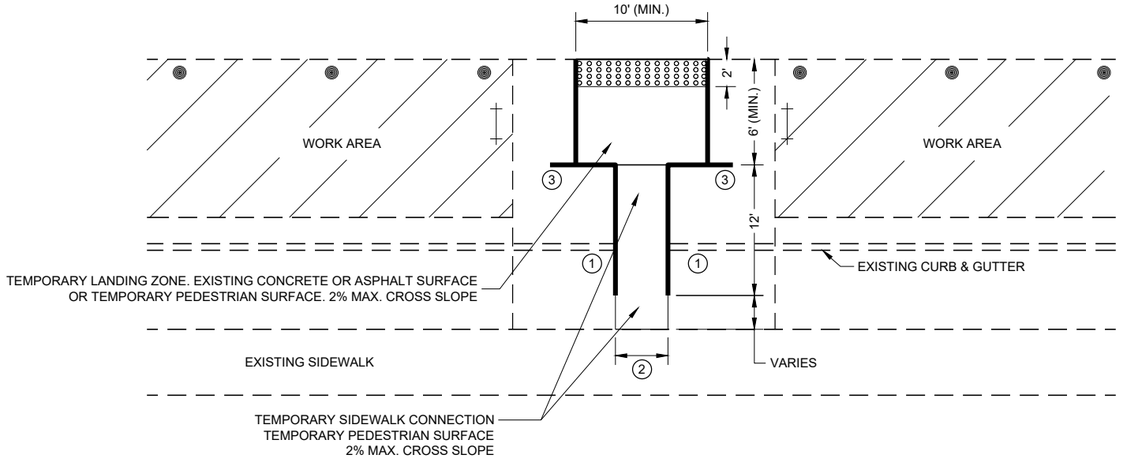
(OUTSIDE OF CROSSWALK AREA)

TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION

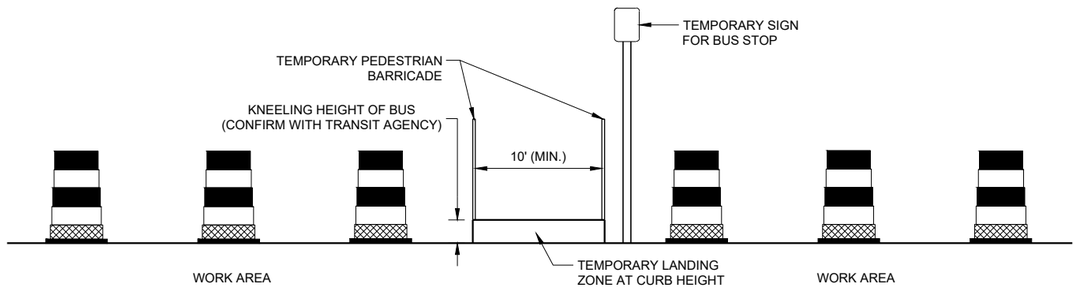
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2023 — DATE
/S/ Andrew Heidtke — WORK ZONE ENGINEER
FHWA

6
SDD 15D30-09d



PLAN VIEW



PROFILE VIEW

TEMPORARY BUS STOP PAD

GENERAL NOTES

TYPICAL TEMPORARY PEDESTRIAN BARRICADE PANEL IS 6 FEET LONG.

NOTIFY THE BUS COMPANY 7 DAYS IN ADVANCE OF THE BUS STOP RELOCATION.

PROTECTIVE EDGING WITH A 2" MIN. HEIGHT SHALL BE INSTALLED WHEN A CURB RAMP OR LANDING PLATFORM HAS A VERTICAL DROP OF 6" OR GREATER OR HAS A SIDE APRON SLOPE STEEPER THAN 1:3 (33%). PROTECTIVE EDGING SHOULD BE CONSIDERED WHEN CURB RAMPS OR LANDING PLATFORMS HAVE A VERTICAL DROP OF 3" OR MORE.

DETECTABLE EDGING WITH 6" MIN. HEIGHT AND CONTRASTING COLOR SHALL BE INSTALLED ON ALL CURB RAMP LANDINGS WHERE THE WALKWAY CHANGES DIRECTION (TURNS).

LATERAL JOINTS OR GAPS BETWEEN SURFACES SHALL BE LESS THAN ½" WIDTH.

CHANGES BETWEEN SURFACE HEIGHTS SHALL NOT EXCEED ½". LATERAL EDGES MAY BE VERTICAL UP TO ¼" HIGH AND SHALL BE BEVELED AT 1:2 BETWEEN ¼" AND ½".

CURB RAMPS AND LANDINGS SHALL HAVE A 1:50 (2%) MAX. CROSS-SLOPE.

(1) DO NOT RESTRICT WATER FLOW IN THE GUTTER SYSTEM.

(2) 5' WIDE MIN. WITH TEMPORARY PEDESTRIAN BARRICADE, 10' WIDE MIN. WITHOUT TEMPORARY PEDESTRIAN BARRICADE.

(3) PLACE EXCESS PORTION OF TEMPORARY PEDESTRIAN BARRICADE INTO THIS SPACE.

LEGEND

- TRAFFIC CONTROL DRUM
- TYPE III BARRICADE
- TEMPORARY PEDESTRIAN BARRICADE
- TEMPORARY DETECTABLE WARNING FIELD
- WORK AREA

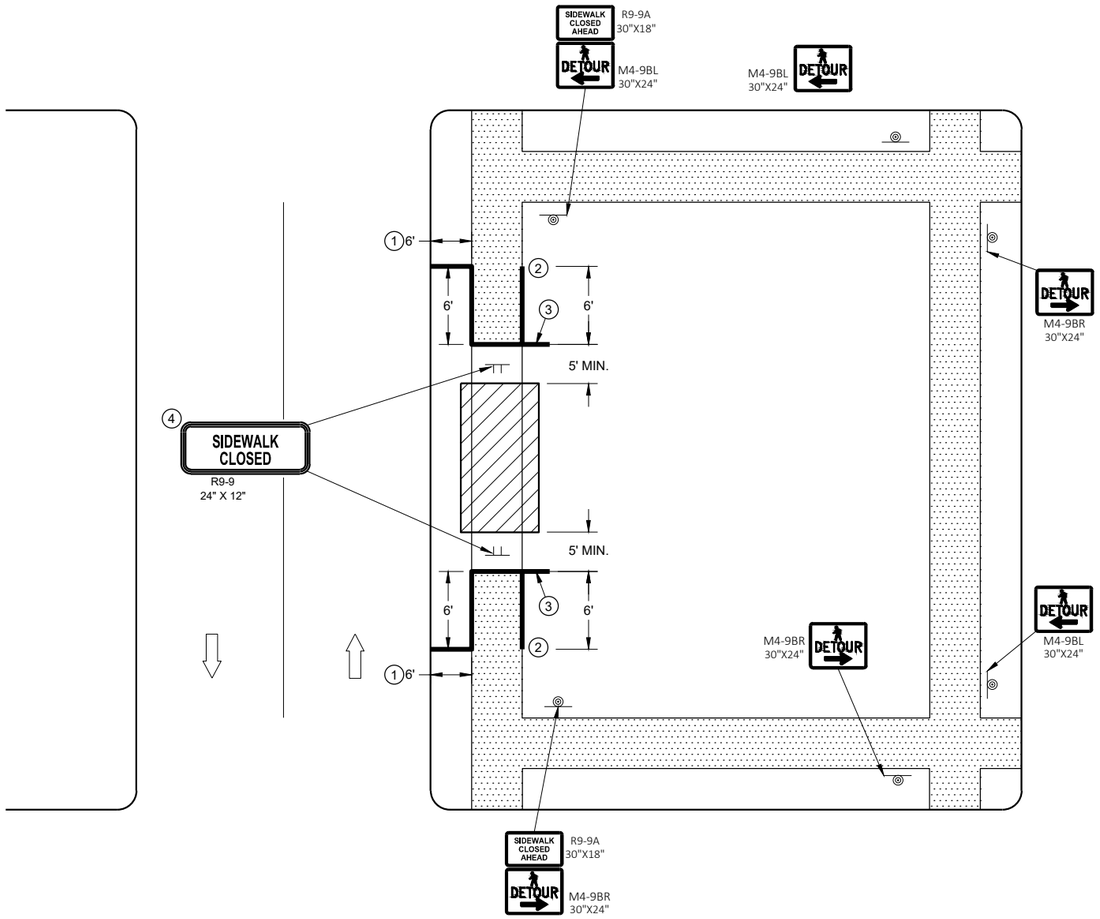
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SDD 15D30 - 09e

TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION

LEGEND

- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- UNDER PEDESTRIAN TRAFFIC
- WORK AREA
- TEMPORARY PEDESTRIAN BARRICADE
- DIRECTION OF TRAFFIC



GENERAL NOTES

SIGN LAYOUTS SHALL BE IN ACCORDANCE WITH THE WISCONSIN STANDARD SIGN PLATES.

WHERE TEMPORARY BARRICADE RUNS PARALLEL ALONG SIDEWALK, PLACE THE FACE OF THE BARRICADE AT THE EDGE OF THE SIDEWALK.

SIGNS THAT REMAIN IN PLACE LESS THAN SEVEN CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

PLACE TEMPORARY PEDESTRIAN BARRICADE TO FIT FIELD CONDITIONS, AVOIDING CONFLICTS WITH DRIVEWAYS AND OTHER EXISTING FEATURES.

1. IF TERRACE IS LESS THAN 6 FEET WIDE, OMIT TEMPORARY PEDESTRIAN BARRICADE FROM THE SIDEWALK TO THE CURB.
2. PLACE BARRICADE CLOSURE SO THAT THE TEMPORARY PEDESTRIAN BARRICADE END IS AT THE LAST OPEN SIDEWALK ACCESS TO RESIDENCES OR BUSINESSES BEFORE THE SIDEWALK CLOSURE.
3. IF TEMPORARY PEDESTRIAN BARRICADE PANEL IS WIDER THAN THE SIDEWALK WIDTH, THE PORTION OF EXCESS PANEL SHOULD EXTEND INTO THE TERRACE.
4. MOUNTING HEIGHT OF 5 FEET FROM THE SURFACE TO THE BOTTOM OF SIGN.

SIDEWALK DETOUR, SIDEWALK ONLY ON ONE SIDE

LEGEND

- SIGN ON TEMPORARY SUPPORT
- WORK AREA
- UNDER PEDESTRIAN TRAFFIC
- TEMPORARY PEDESTRIAN SURFACE
- TEMPORARY PEDESTRIAN BARRICADE
- OPTIONAL TEMPORARY PEDESTRIAN BARRICADE
- DIRECTION OF TRAFFIC

GENERAL NOTES

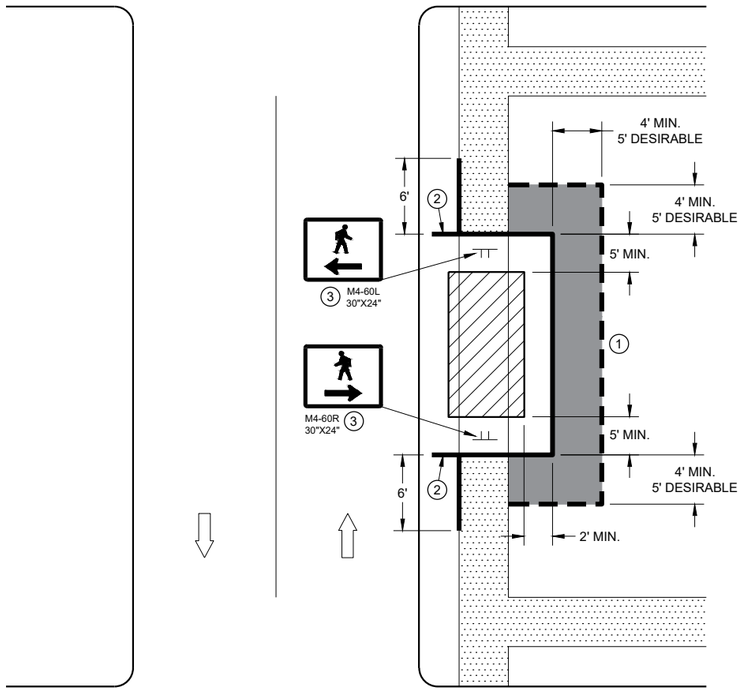
TYPICAL TEMPORARY PEDESTRIAN BARRICADE PANEL IS 6 FEET LONG.

SIGN LAYOUTS SHALL BE IN ACCORDANCE WITH THE WISCONSIN STANDARD SIGN PLATES.

WHERE TEMPORARY BARRICADE RUNS PARALLEL ALONG SIDEWALK, PLACE THE FACE OF THE BARRICADE AT THE EDGE OF THE SIDEWALK.

SIGNS THAT REMAIN IN PLACE LESS THAN SEVEN CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

1. USE TEMPORARY PEDESTRIAN BARRICADE TO SEPARATE PEDESTRIANS FROM DROP OFFS OR FOR ADDITIONAL PEDESTRIAN CHANNELIZATION.
2. IF TEMPORARY PEDESTRIAN BARRICADE PANEL IS WIDER THAN THE SIDEWALK WIDTH, THE PORTION OF EXCESS PANEL SHOULD EXTEND INTO THE TERRACE.
3. MOUNTING HEIGHT OF 5 FEET FROM THE SURFACE TO THE BOTTOM OF SIGN.



SIDEWALK DIVERSION
SINGLE SIDE

6

SDD 15D30 - 09g

TRAFFIC CONTROL,
PEDESTRIAN ACCOMMODATION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

SDD15D30 - 09g

LEGEND

- SIGN ON TEMPORARY SUPPORT
- TRAFFIC CONTROL DRUM
- WORK AREA
- UNDER PEDESTRIAN TRAFFIC
- TEMPORARY CURB RAMP
- TEMPORARY PEDESTRIAN SURFACE "A"
- TEMPORARY PEDESTRIAN SURFACE "B"
- TEMPORARY PEDESTRIAN BARRICADE
- DIRECTION OF TRAFFIC

GENERAL NOTES

TYPICAL TEMPORARY PEDESTRIAN BARRICADE PANEL IS 6 FEET LONG.

SIGN LAYOUTS SHALL BE IN ACCORDANCE WITH THE WISCONSIN STANDARD SIGN PLATES.

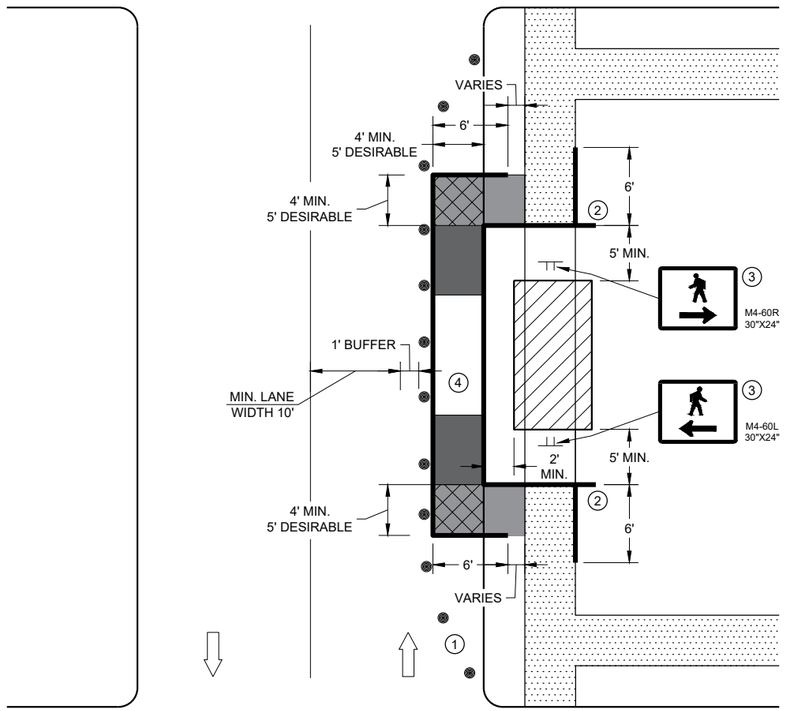
WHERE TEMPORARY BARRICADE RUNS PARALLEL ALONG SIDEWALK, PLACE THE FACE OF THE BARRICADE AT THE EDGE OF THE SIDEWALK.

(1) SHOULDER OR LANE CLOSURE ADVANCE WARNING AND BUFFER SPACE REQUIRED.

(2) PLACE EXCESS PORTION OF TEMPORARY PEDESTRIAN BARRICADE PANEL PAST THE SIDEWALK ON THE SIDE AWAY FROM THE ROAD.

(3) MOUNTING HEIGHT OF 5 FEET FROM THE SURFACE TO THE BOTTOM OF SIGN.

(4) USE EXISTING PAVEMENT SURFACE. IF EXISTING PAVEMENT SURACE HAS BEEN REMOVED, USE A TEMPORARY PEDESTRIAN SURFACE.



SIDEWALK DIVERSION, SINGLE SIDE

TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION

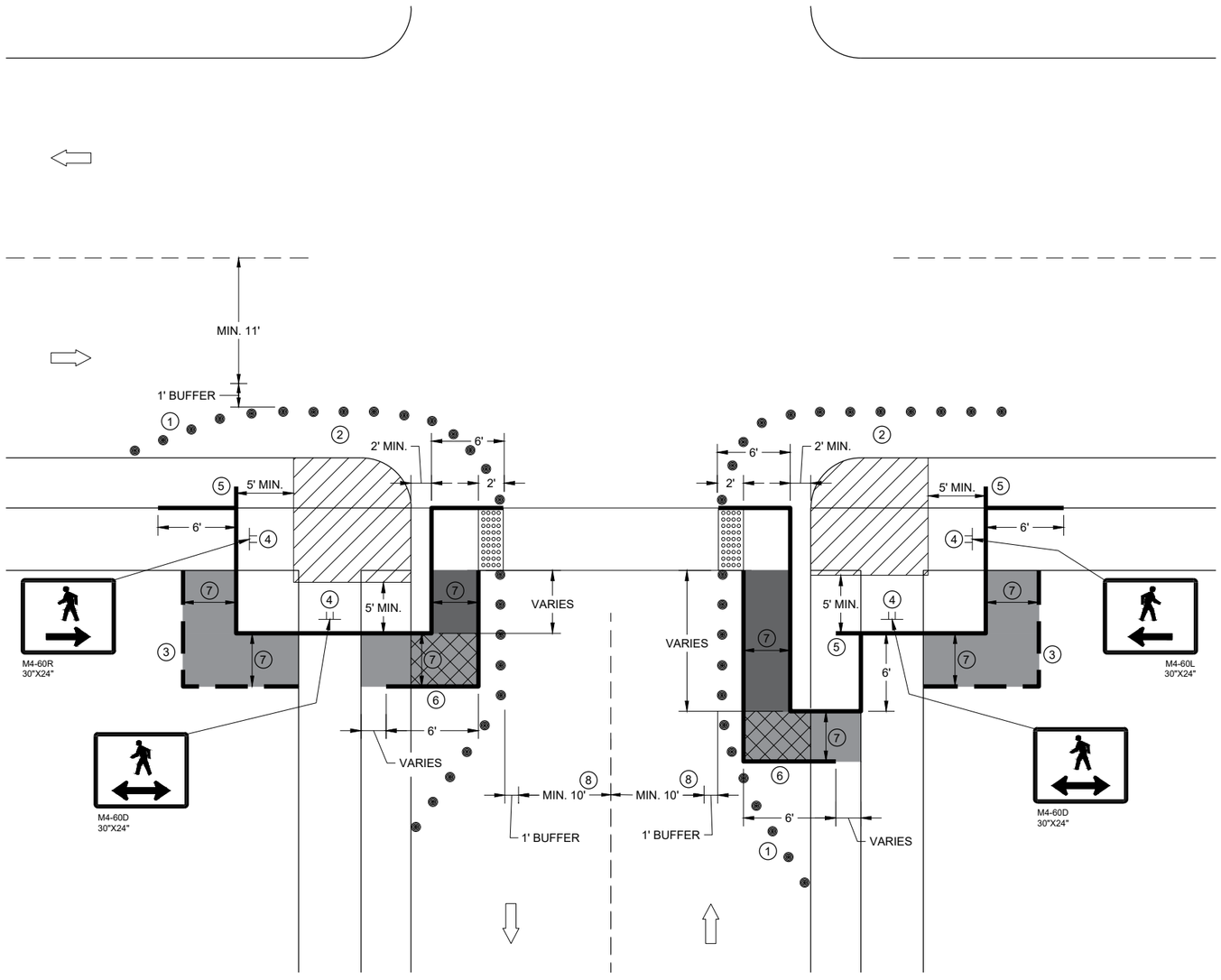
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

SDD 15D30 - 09h

6

SDD 15D30 - 09h



CURB RAMP PEDESTRIAN TRAFFIC CONTROL
SIDEWALK ON SINGLE SIDE

GENERAL NOTES

IF PEDESTRIAN PUSH BUTTONS ARE PRESENT ON THE EXISTING FACILITY, ENSURE THEY ARE MAINTAINED/ACCESSIBLE FOR PEDESTRIAN USE THROUGHOUT THE TEMPORARY PEDESTRIAN ACCOMMODATIONS.

SIGN LAYOUTS SHALL BE IN ACCORDANCE WITH THE WISCONSIN STANDARD SIGN PLATES.

TYPICAL TEMPORARY PEDESTRIAN BARRICADE PANEL IS 6 FEET LONG

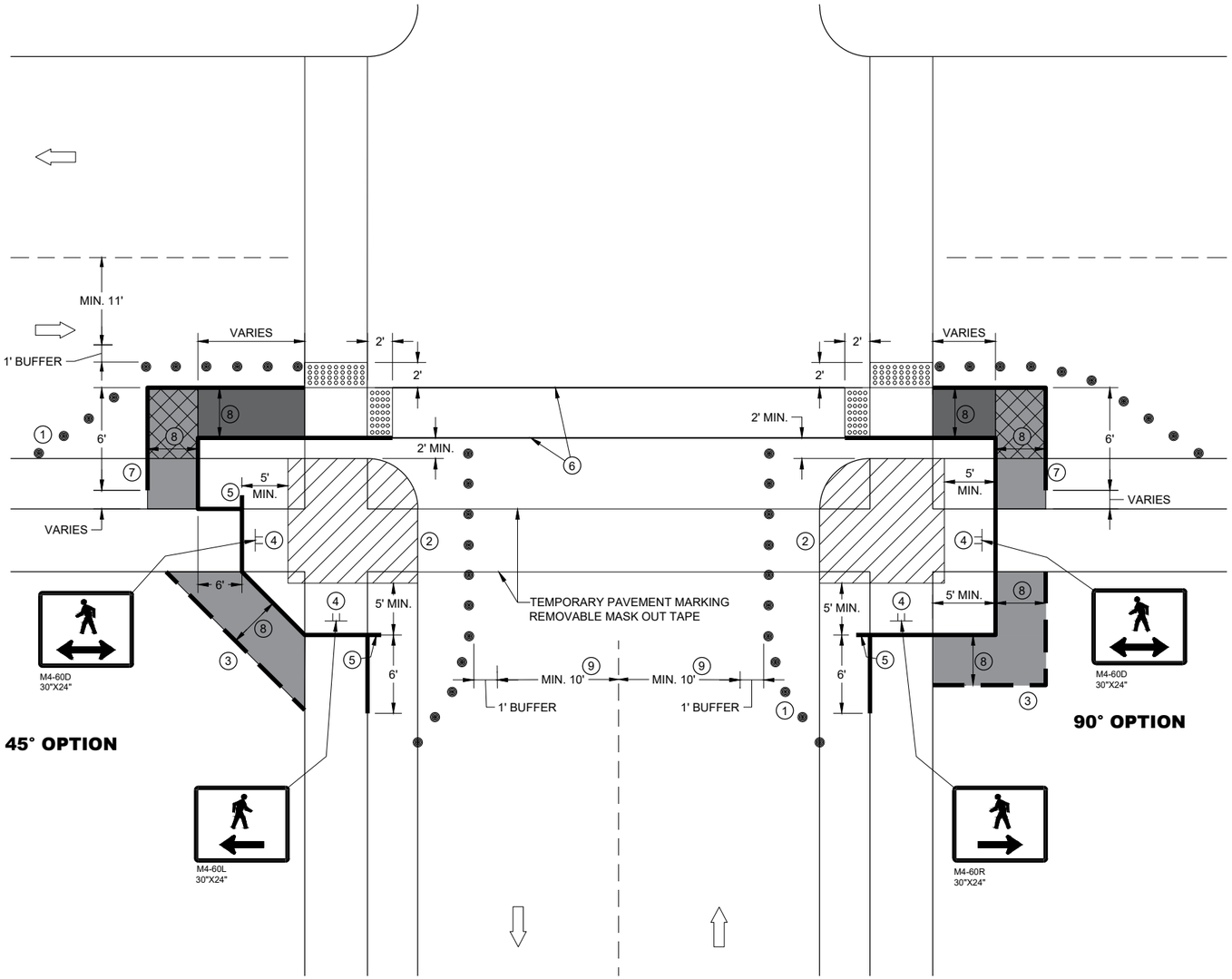
WHEN TEMPORARY PEDESTRIAN BARRICADE RUNS PARALLEL ALONG THE SIDEWALK, PLACE THE FACE OF THE BARRICADE AT THE EDGE OF THE SIDEWALK.

1. SHOULDER OR LANE CLOSURE ADVANCE WARNING AND PROPER BUFFER SPACE REQUIRED.
2. PROVIDE ADEQUATE SPACE FOR CONTRACTOR OPERATIONS
3. USE TEMPORARY PEDESTRIAN BARRICADE TO SEPARATE PEDESTRIANS FROM DROP OFFS OR FOR ADDITIONAL PEDESTRIAN CHANNELIZATION.
4. MOUNTING HEIGHT OF 5 FEET FROM SIDEWALK SURFACE TO BOTTOM OF SIGN.
5. PLACE EXCESS PORTION OF TEMPORARY PEDESTRIAN BARRICADE PANEL IN THE SIDEWALK TERRACE.
6. IF TEMPORARY PEDESTRIAN BARRICADE DOES NOT REACH THE FACE OF THE CURB, USE AN ADDITIONAL PANEL AND EXTEND INTO THE TERRACE.
7. 4 FEET MINIMUM, 5 FEET DESIRABLE
8. IF MINIMUM LANE WIDTHS CAN'T BE ATTAINED, CURB RAMPS MAY NEED TO BE CONSTRUCTED AT SEPARATE TIMES.

LEGEND

- SIGN ON TEMPORARY SUPPORT
- TRAFFIC CONTROL DRUM
- WORK AREA
- TEMPORARY CURB RAMP
- TEMPORARY PEDESTRIAN SURFACE "A"
- TEMPORARY PEDESTRIAN SURFACE "B"
- TEMPORARY DETECTABLE WARNING FIELD
- TEMPORARY PEDESTRIAN BARRICADE
- OPTIONAL TEMPORARY PEDESTRIAN BARRICADE
- DIRECTION OF TRAFFIC

TRAFFIC CONTROL,
PEDESTRIAN ACCOMMODATION



CURB RAMP PEDESTRIAN TRAFFIC CONTROL

GENERAL NOTES

IF PEDESTRIAN PUSH BUTTONS ARE PRESENT ON THE EXISTING FACILITY, ENSURE THEY ARE MAINTAINED/ACCESSIBLE FOR PEDESTRIAN USE THROUGHOUT THE TEMPORARY PEDESTRIAN ACCOMMODATIONS.

SIGN LAYOUTS SHALL BE IN ACCORDANCE WITH THE WISCONSIN STANDARD SIGN PLATES.

TYPICAL TEMPORARY PEDESTRIAN BARRICADE PANEL IS 6 FEET LONG

WHEN TEMPORARY PEDESTRIAN BARRICADE RUNS PARALLEL ALONG THE SIDEWALK, PLACE THE FACE OF THE BARRICADE AT THE EDGE OF THE SIDEWALK.

1. SHOULDER OR LANE CLOSURE ADVANCE WARNING AND PROPER BUFFER SPACE REQUIRED.
2. PROVIDE ADEQUATE SPACE FOR CONTRACTOR OPERATIONS
3. USE TEMPORARY PEDESTRIAN BARRICADE TO SEPARATE PEDESTRIANS FROM DROP OFFS OR FOR ADDITIONAL PEDESTRIAN CHANNELIZATION.
4. MOUNTING HEIGHT OF 5 FEET FROM SIDEWALK SURFACE TO BOTTOM OF SIGN.
5. PLACE EXCESS PORTION OF TEMPORARY PEDESTRIAN BARRICADE PANEL IN THE SIDEWALK TERRACE.
6. WHITE 6" TEMPORARY PAVEMENT MARKING
7. IF TEMPORARY PEDESTRIAN BARRICADE DOES NOT REACH THE FACE OF THE CURB, USE AN ADDITIONAL PANEL AND EXTEND INTO THE TERRACE.
8. 4 FEET MINIMUM, 5 FEET DESIRABLE
9. IF MINIMUM LANE WIDTHS CAN'T BE ATTAINED, CURB RAMPS MAY NEED TO BE CONSTRUCTED AT SEPARATE TIMES.

LEGEND

- SIGN ON TEMPORARY SUPPORT
- TRAFFIC CONTROL DRUM
- WORK AREA
- TEMPORARY CURB RAMP
- TEMPORARY PEDESTRIAN SURFACE "A"
- TEMPORARY PEDESTRIAN SURFACE "B"
- TEMPORARY DETECTABLE WARNING FIELD
- TEMPORARY PEDESTRIAN BARRICADE
- OPTIONAL TEMPORARY PEDESTRIAN BARRICADE
- DIRECTION OF TRAFFIC

TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION

LEGEND

SIGN ON PERMANENT SUPPORT

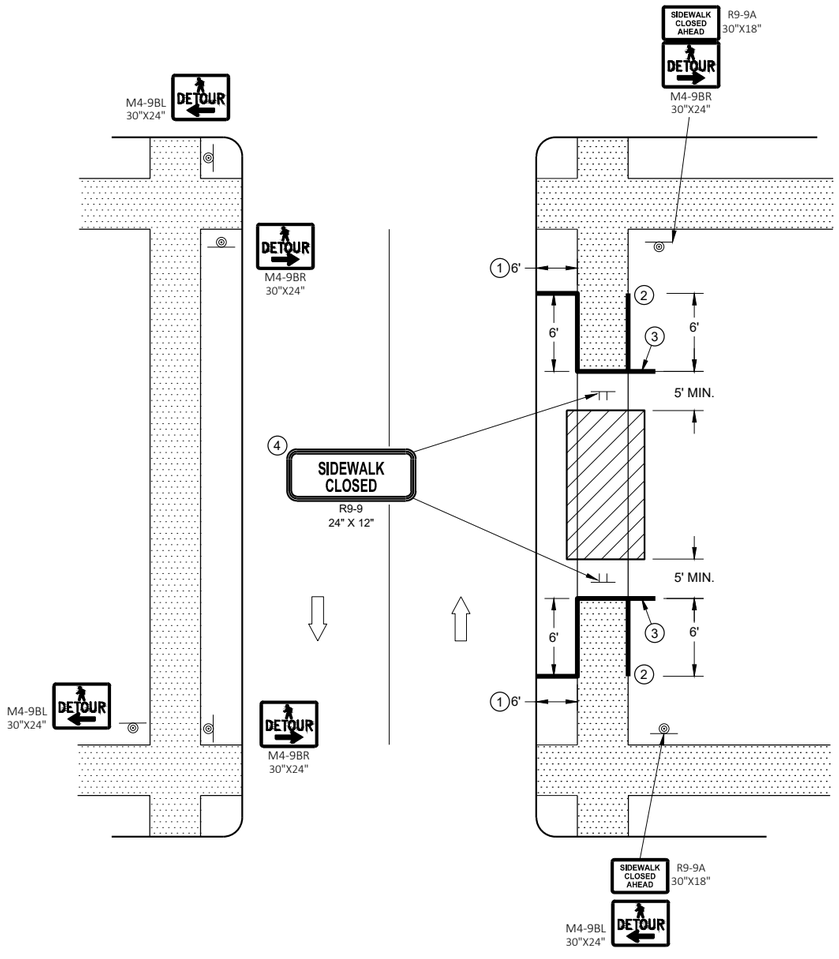
SIGN ON TEMPORARY SUPPORT

UNDER PEDESTRIAN TRAFFIC

WORK AREA

TEMPORARY PEDESTRIAN BARRICADE

DIRECTION OF TRAFFIC



GENERAL NOTES

SIGN LAYOUTS SHALL BE IN ACCORDANCE WITH THE WISCONSIN STANDARD SIGN PLATES.

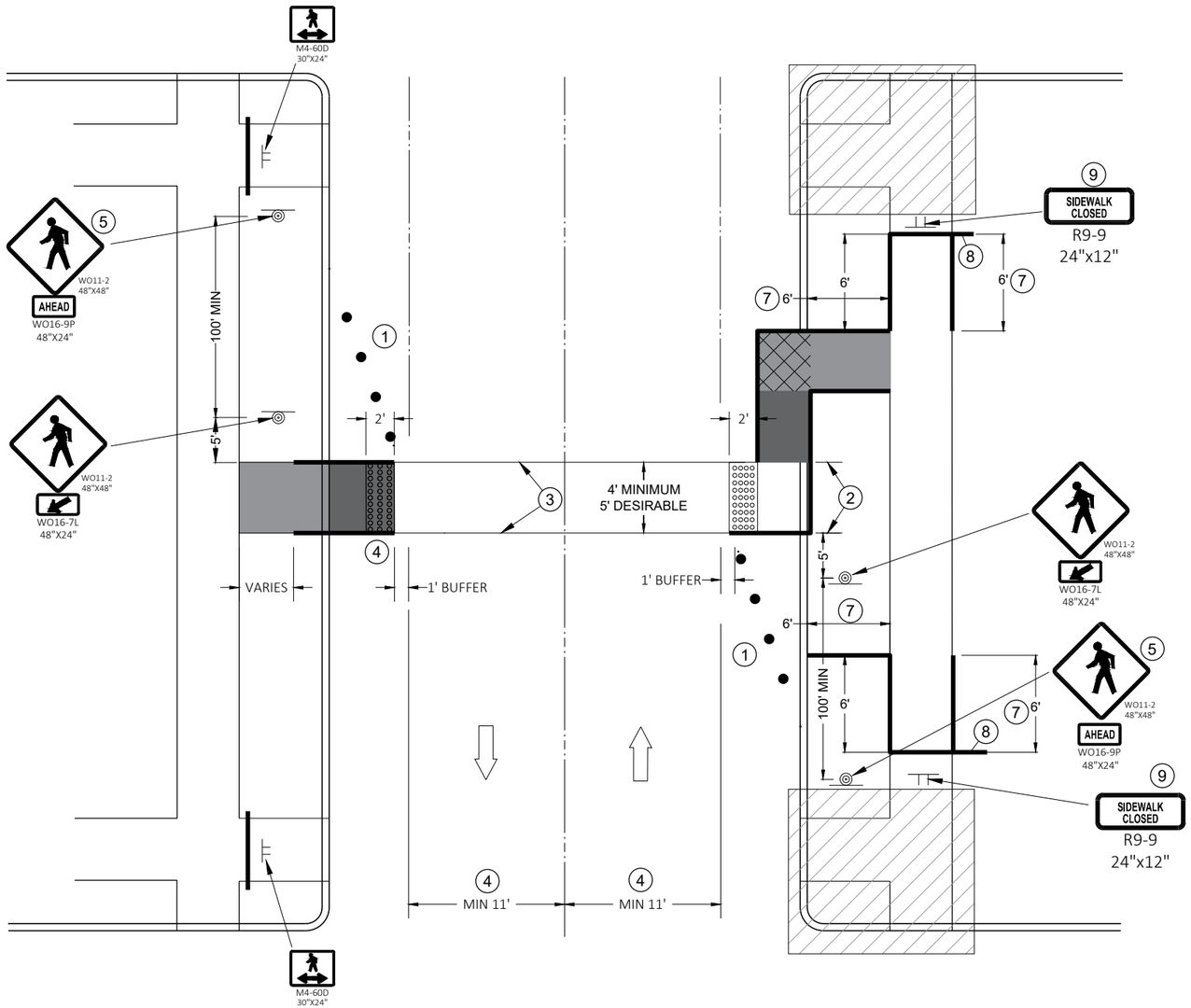
WHERE TEMPORARY BARRICADE RUNS PARALLEL ALONG SIDEWALK, PLACE THE FACE OF THE BARRICADE AT THE EDGE OF THE SIDEWALK.

SIGNS THAT REMAIN IN PLACE LESS THAN SEVEN CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

PLACE TEMPORARY PEDESTRIAN BARRICADE TO FIT FIELD CONDITIONS, AVOIDING CONFLICT WITH DRIVEWAYS AND OTHER EXISTING FEATURES.

1. IF TERRACE IS LESS THAN 6 FEET WIDE, OMIT TEMPORARY PEDESTRIAN BARRICADE FROM THE SIDEWALK TO THE CURB.
2. PLACE BARRICADE CLOSURE SO THAT THE TEMPORARY PEDESTRIAN BARRICADE END IS AT THE LAST OPEN SIDEWALK ACCESS TO RESIDENCES OR BUSINESSES BEFORE THE SIDEWALK CLOSURE.
3. IF TEMPORARY PEDESTRIAN BARRICADE PANEL IS WIDER THAN THE SIDEWALK WIDTH, THE PORTION OF EXCESS PANEL SHOULD EXTEND INTO THE TERRACE.
4. MOUNTING HEIGHT OF 5 FEET FROM THE SURFACE TO THE BOTTOM OF SIGN.

SIDEWALK DETOUR, SIDEWALK ON BOTH SIDES



TEMPORARY PEDESTRIAN CROSSING

GENERAL NOTES

TYPICAL TEMPORARY PEDESTRIAN BARRICADE PANEL IS 6 FEET LONG.

SIGN LAYOUTS SHALL BE IN ACCORDANCE WITH THE WISCONSIN STANDARD SIGN PLATES.

SEE OTHER PEDESTRIAN ACCOMMODATION DETAILS FOR SIGNING AND DEVICES FOR DIFFERENT PEDESTRIAN FACILITIES CLOSURES.

1. SHOULDER OR LANE CLOSURE ADVANCED WARNING AND PROPER BUFFER SPACE REQUIRED.
2. 4 FEET MINIMUM, 5 FEET DESIRABLE.
3. WHITE 6" TEMPORARY PAVEMENT MARKING.
4. IF MINIMUM LANE WIDTHS CAN'T BE ATTAINED, PERPENDICULAR CURB RAMPS MAY NEED TO BE UTILIZED.
5. IF MINIMUM 100' SPACING FROM THE MID-BLOCK CROSSING CANNOT BE ATTAINED BEFORE THE INTERSECTION, REMOVE THIS SIGN ASSEMBLY.
6. IF TERRACE IS LESS THAN 6 FEET WIDE, OMIT TEMPORARY PEDESTRIAN BARRICADE FROM THE SIDEWALK TO THE CURB.
7. PLACE BARRICADE CLOSURE SO THAT THE TEMPORARY PEDESTRIAN BARRICADE END IS AT THE LAST OPEN SIDEWALK ACCESS TO RESIDENCES OR BUSINESSES BEFORE THE SIDEWALK CLOSURE.
8. IF TEMPORARY PEDESTRIAN BARRICADE PANEL IS WIDER THAN THE SIDEWALK WIDTH, THE PORTION OF THE EXCESS PANEL SHOULD EXTEND INTO THE TERRACE.
9. MOUNTING HEIGHT OF 5 FEET FROM THE SURFACE TO THE BOTTOM OF THE SIGN.

LEGEND

- TRAFFIC CONTROL DRUM
- SIGN ON TEMPORARY SUPPORT
- TEMPORARY CURB RAMP
- TEMPORARY DETECTABLE WARNING FIELD
- TEMPORARY PEDESTRIAN SURFACE "A"
- TEMPORARY PEDESTRIAN SURFACE "B"
- WORK AREA
- TEMPORARY PEDESTRIAN BARRICADE
- DIRECTION OF TRAFFIC

6

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)	ADVANCE WARNING SIGN SPACING (A) FEET	SHIFTING TAPER L/2 W, LATERAL OFFSET (FT)					BUFFER SPACE (B) FEET
		10	11	12	13	14	
25	200	52	57	63	68	73	55
30	200	75	83	90	98	105	85
35	350	102	112	123	133	143	120
40	350	133	147	160	173	187	170
45	500	225	248	270	293	315	220

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.

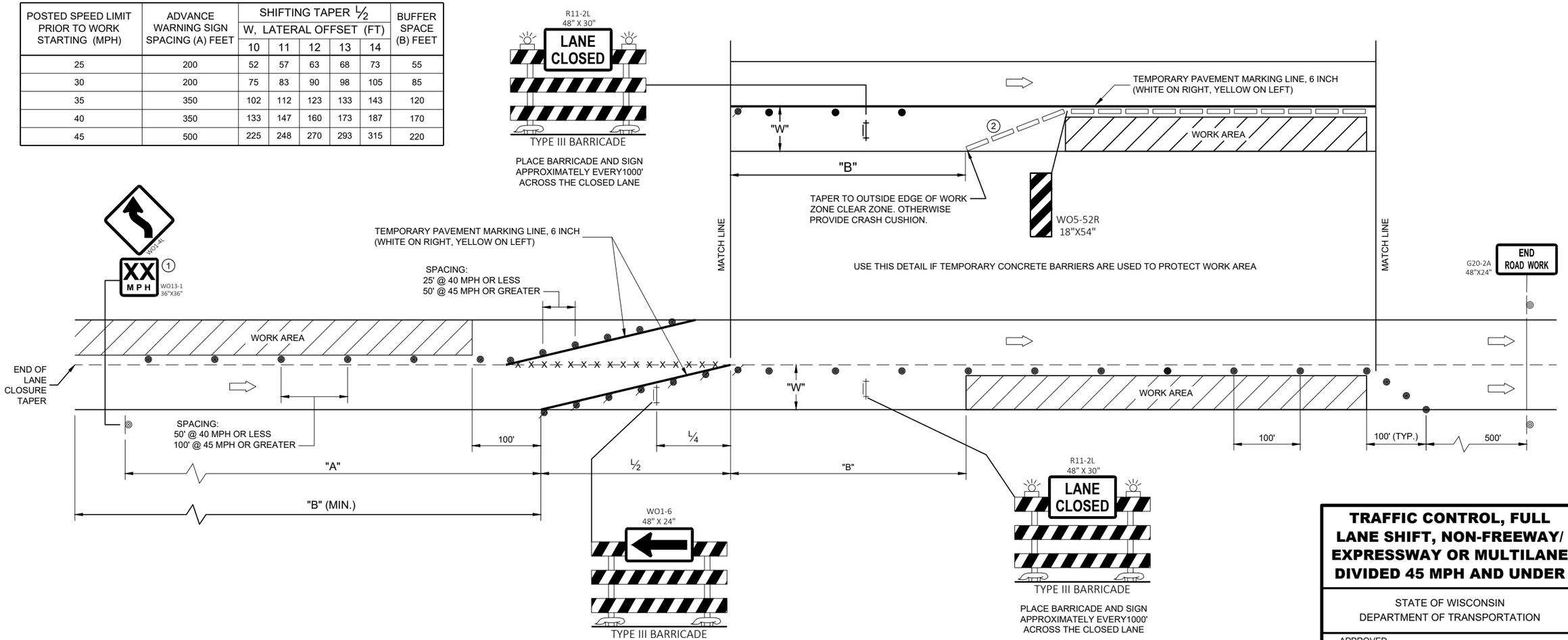
WARNING LIGHTS ARE NOT REQUIRED IF THE LANE CLOSURE IS A DAYTIME ONLY OPERATION.

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 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 IF DESIGN SPEED IS 10 MPH BELOW POSTED SPEED.

(2) BARRIER FLARE RATE: 6:1 @ 40 MPH OR LESS
8:1 @ 45 MPH OR GREATER



TRAFFIC CONTROL, FULL LANE SHIFT, NON-FREEWAY/ EXPRESSWAY OR MULTILANE DIVIDED 45 MPH AND UNDER

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2023
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEER

FHWA

6

SDD 15D40-05a

6

SDD 15D40-05a

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							
L, TAPER LENGTH (FT)							
POSTED SPEED (MPH)	W, LATERAL OFFSET (FT)						
	10	11	12	13	14	15	16
45	450	495	540	585	630	675	720
50	500	550	600	650	700	750	800
55	550	605	660	715	770	825	880
60	600	660	720	780	840	900	960
65	650	715	780	845	910	975	1040
70	700	770	840	910	980	1050	1120



OR



LOCATED
3000 FEET BEYOND THE
"ROAD WORK 1 MILE"
(W20-1F) SIGN



R2-1
48"X60"

OR



R2-1
48"X60"

(BLACK AND WHITE)
LOCATED
700 FEET BEYOND THE
W03-5 SIGN

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.

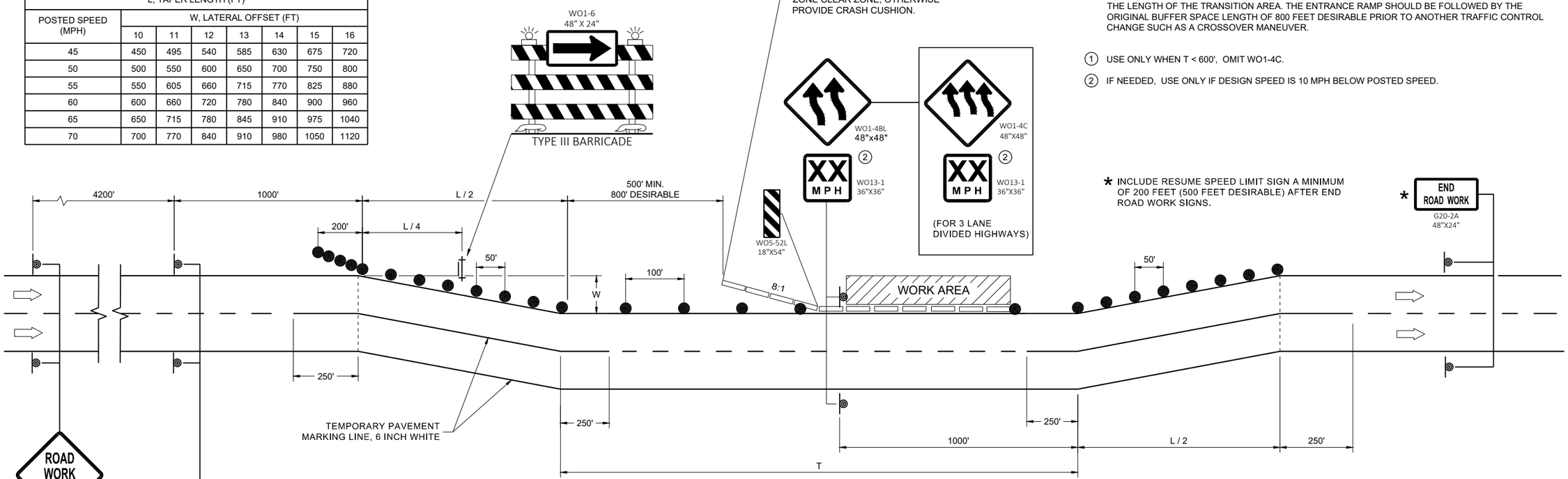
REMOVE PAVEMENT MARKINGS AND PLACE TEMPORARY PAVEMENT MARKING LINES IF LANE CLOSURE IS TO BE IN PLACE FOR 4 OR MORE CONTINUOUS DAYS AND NIGHTS.

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
September 2023
DATE

/S/ Andrew Heidtke
ROADWAY STANDARDS DEVELOPMENT UNIT SUPERVISOR

FHWA

6

SDD 15D41-04a

LEGEND

- EXISTING SIGN ON PERMANENT SUPPORT
- NEW SIGN ON PERMANENT SUPPORT
- TRAFFIC CONTROL DRUM
- TYPE III BARRICADE WITH ATTACHED SIGN
- TYPE "A" WARNING LIGHT (FLASHING)
- DIRECTION OF TRAFFIC
- WORK ZONE

GENERAL NOTES

THE EXACT NUMBER, LOCATION AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS DIRECTED BY THE ENGINEER.

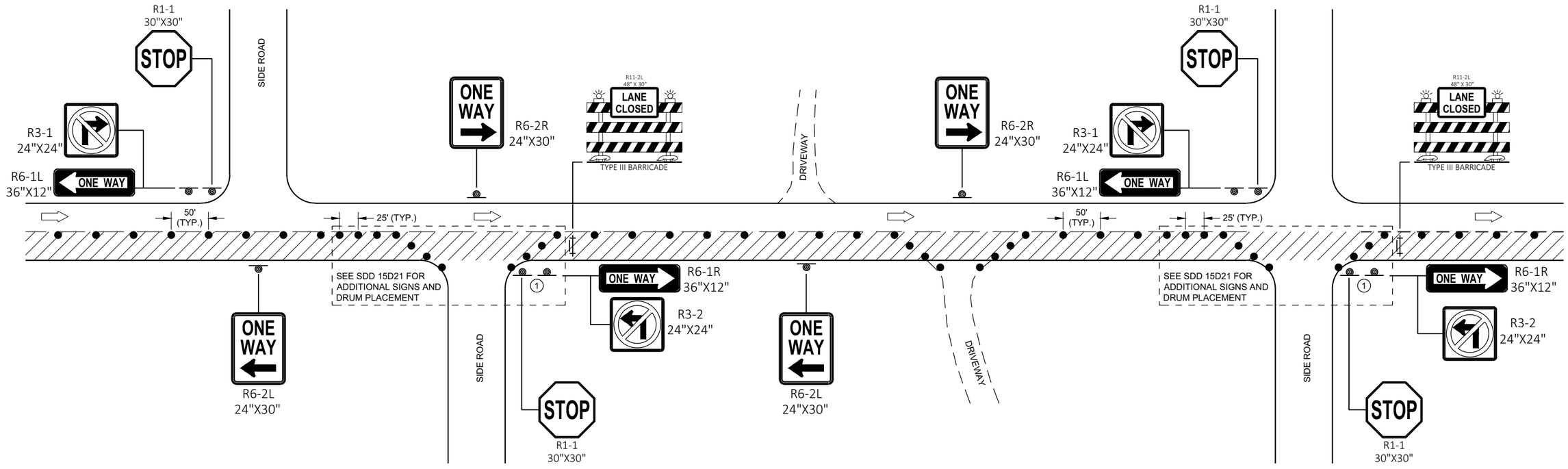
ALL SIGNS AND DEVICES SHALL BE IN CONFORMANCE WITH THE WISCONSIN MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (WMUTCD). SIGN LAYOUTS SHALL BE IN ACCORDANCE WITH THE WISDOT STANDARD SIGN PLATES.

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. NO WARNING LIGHTS SHALL BE WORKING ON COVERED OR "DOWNED" SIGNS.

BARRICADES 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.

WARNING LIGHTS ARE NOT REQUIRED IF THE LANE CLOSURE IS A DAYTIME ONLY OPERATION.

(1) IF WORK OPERATIONS ALLOWS, MOVE R1-1, R6-1R, AND R3-2 CLOSER TO INTERSECTION.



TRAFFIC CONTROL
ONE - WAY SIGNING

TRAFFIC CONTROL ONE-WAY SIGNING	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED May 2020 DATE	/S/ Andrew Heidtke WORK ZONE ENGINEE
FHWA	

SDD 15D46 - 01

SDD 15D46 - 01

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.

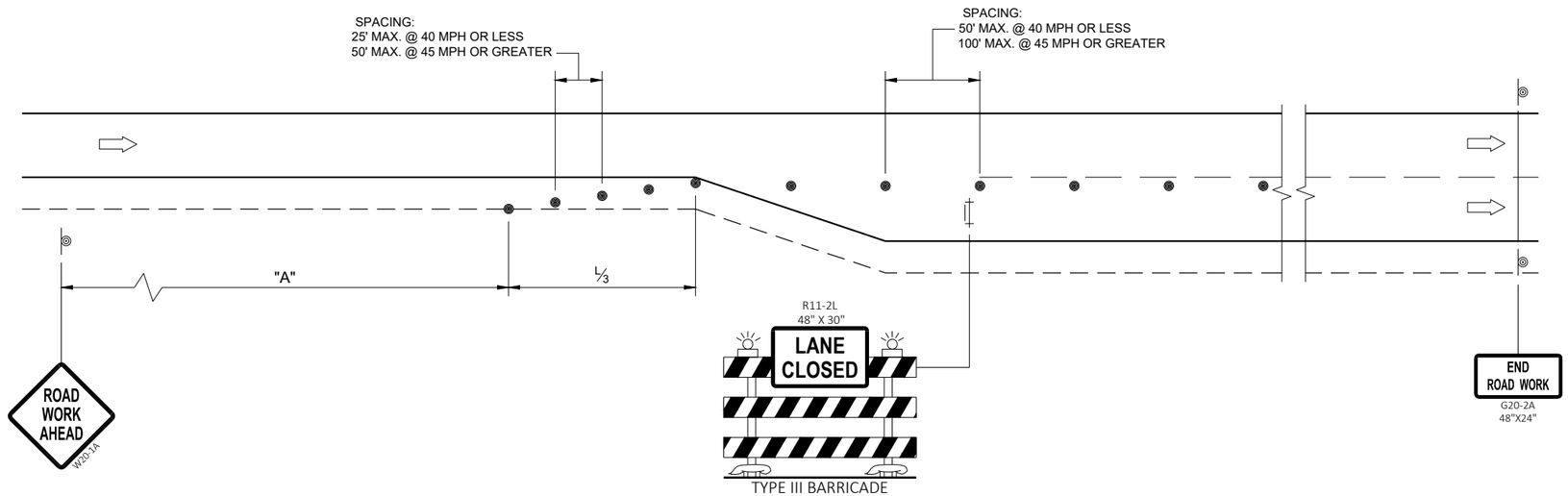
"WO" IS THE SAME AS "W" EXCEPT THE BACKGROUND IS ORANGE.

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.



PLACE BARRICADE AND SIGN APPROXIMATELY EVERY 1000' ACROSS THE CLOSED LANE

TRAFFIC CONTROL
ADDED LANE CLOSURE
WITHOUT LANE SHIFT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2023
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEE

FHWA

6
SDD 15D50-03a

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) FEET
25	200	60
30	200	90
35	350	120
40	350	160
45	500	270
50	500	300
55	500	330

GENERAL NOTES

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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.

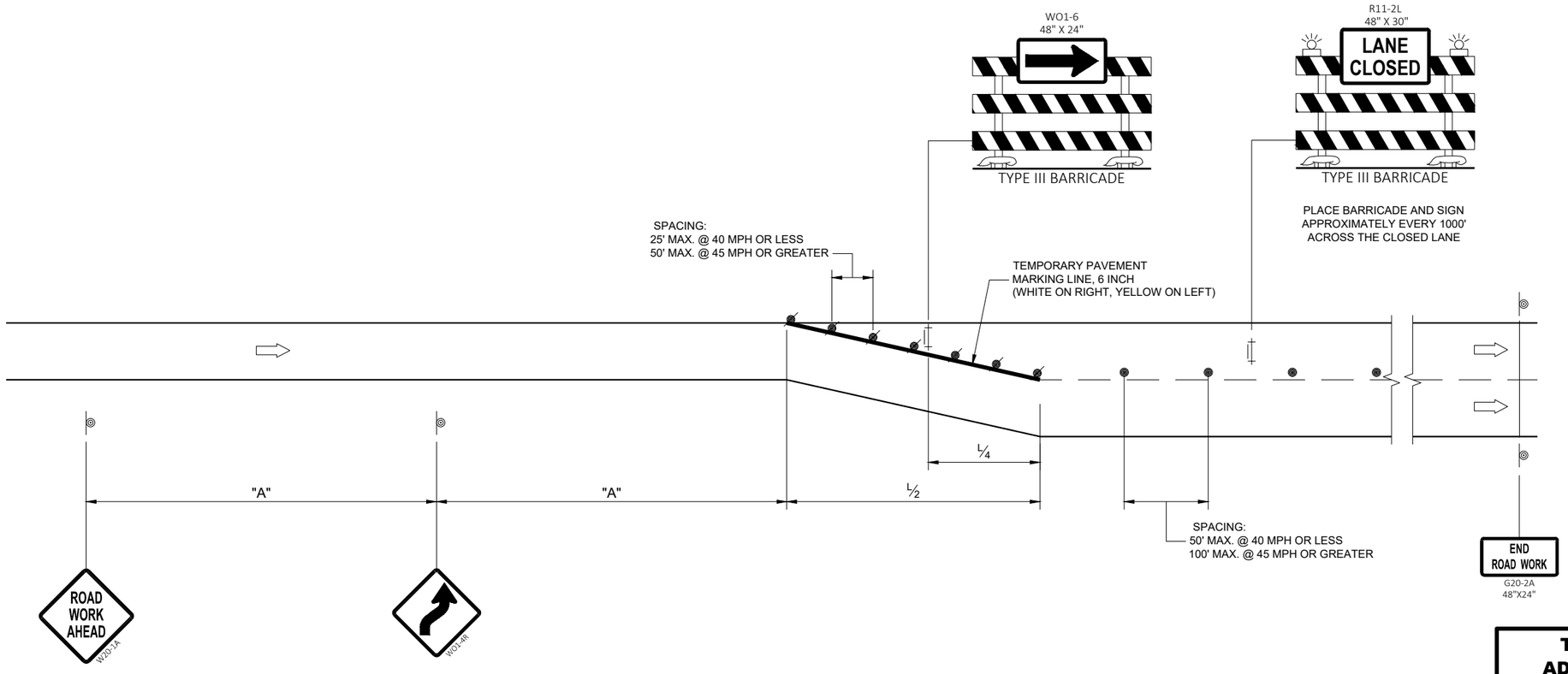
ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

CHANNELIZING DEVICES PLACED ADJACENT TO WORK AREA SHALL BE PULLED BACK FROM THE TRAVEL LANE WHEN WORK IS NOT IN PROGRESS.

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PLACE TEMPORARY PAVEMENT MARKING AND PLACE TEMPORARY PAVEMENT LINE IF LANE CLOSURE IS TO BE IN PLACE FOR 4 OR MORE CONTINUOUS DAYS AND NIGHTS.

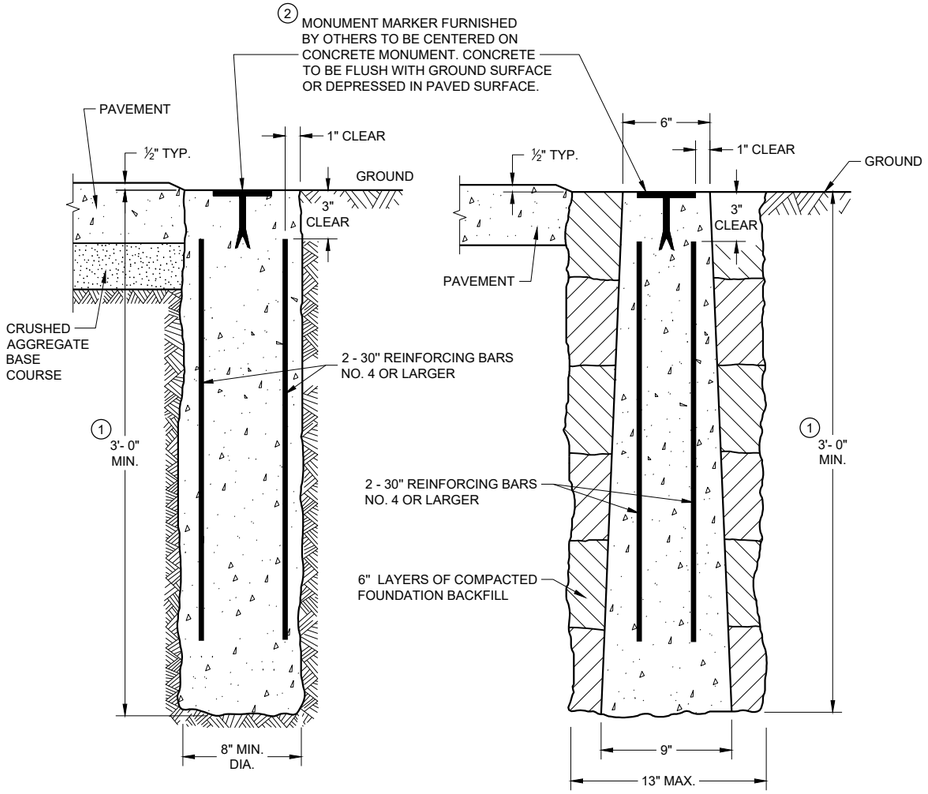


TRAFFIC CONTROL, ADDED LANE CLOSURE WITH LANE SHIFT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

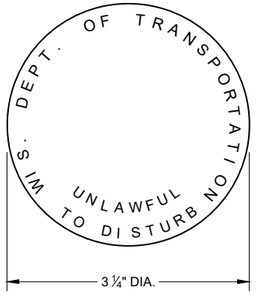
APPROVED
May 2023 — DATE
/S/ Andrew Heidtke — WORK ZONE ENGINEER
FHWA

6
SDD 15D50-03b



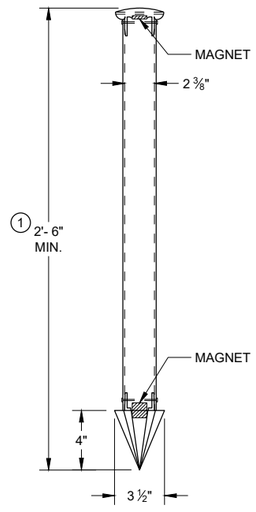
CAST-IN-PLACE **PRECAST**

CONCRETE MONUMENTS
TYPE A

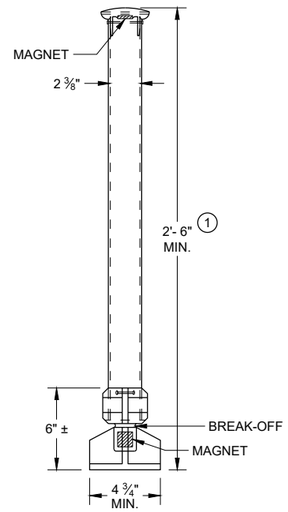


② **WIS DOT MONUMENT MARKER LOGO**

FOR TYPES "A", "C" & "D"

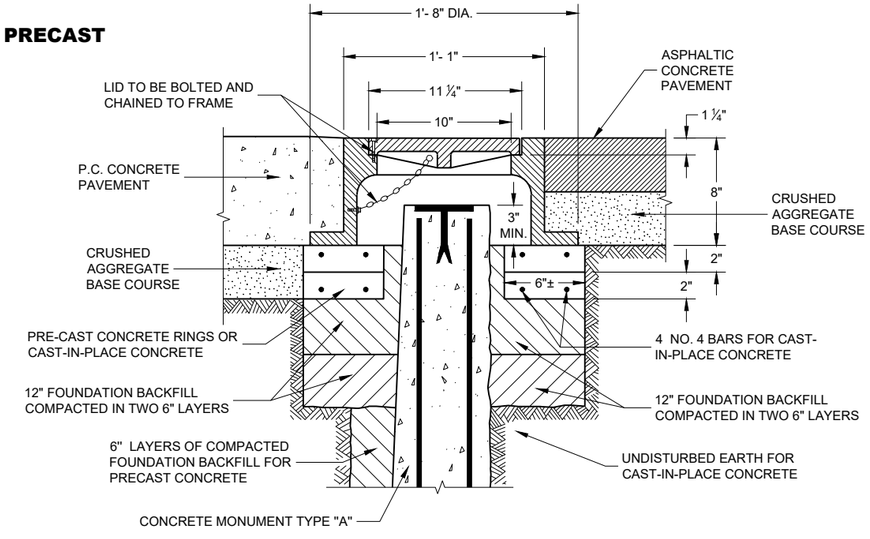


TYPE C DRIVEN MONUMENT



TYPE D NON-DRIVEN BREAK-OFF MONUMENT

ALUMINUM MONUMENTS
(INCLUDES MARKER)



CAST IRON MONUMENT COVER
(APPROXIMATE WEIGHT 95 LBS)

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.

DETAILED DRAWINGS OF PROPOSED ALTERNATE DESIGNS FOR METAL MONUMENTS OR MONUMENT COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL.

PERMANENT MAGNETS SHALL BE INSERTED NEAR THE TOP AND BOTTOM OF ALL ALUMINUM MONUMENTS SO THE MONUMENT CAN EASILY BE DETECTED BY A METAL DETECTOR.

THE CAST IRON MONUMENT COVER SHALL BE A "NON-ROCKING" TYPE. ADJUSTMENT OF THE COVER TO GRADE MAY BE ACCOMPLISHED BY THE USE OF MORTAR AND BRICK, OR BY EITHER PRECAST OR CAST-IN-PLACE REINFORCED CONCRETE GRADE RINGS.

MONUMENTS SHALL BE LOCATED AND PLACED AT THE DIRECTION OF THE ENGINEER.

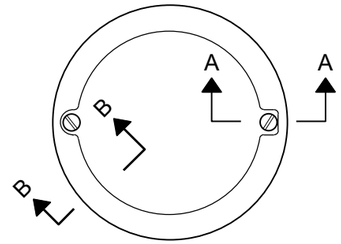
ALUMINUM MONUMENTS AND MONUMENT COVERS SHALL BE MADE FROM AN ALUMINUM AND MAGNESIUM ALLOY AS DETERMINED BY THE MANUFACTURER.

THE MONUMENT COVERS DETAILED ON THIS DRAWING ARE NOT EQUAL ALTERNATES. MONUMENT COVERS SHALL BE CAST IRON UNLESS ALUMINUM IS SPECIFIED ELSEWHERE IN THE CONTRACT.

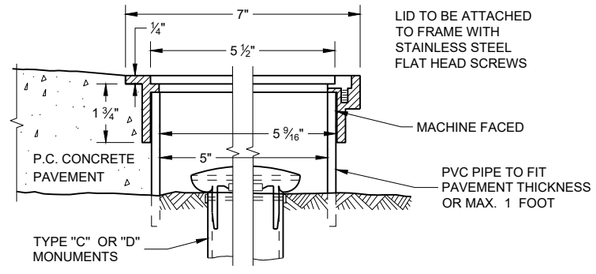
MONUMENT SHALL BE CAST-IN-PLACE CONCRETE UNLESS PRECAST CONCRETE OR ALUMINUM MONUMENTS ARE SPECIFIED IN THE CONTRACT OR PERMITTED BY THE ENGINEER.

① MINIMUM LENGTH SHALL BE 4'-0" FOR MONUMENTS INSTALLED IN PAVED AREAS.

② AN OFFICIAL COUNTY MONUMENT MARKER SUPPLIED BY A COUNTY MAY BE REQUIRED FOR SOME SECTION CORNERS AND WITNESS MONUMENTS INSTEAD OF THIS WISDOT MARKER.



TOP VIEW



SECTION B-B **SECTION A-A**

ALUMINUM MONUMENT COVER
(APPROXIMATE WEIGHT 2 LBS)
(FOR CONCRETE PAVEMENT ONLY)

LANDMARK REFERENCE MONUMENTS AND COVERS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
March 2018
DATE

/S/ Raymond A. Kumapayii
CHIEF SURVEYING AND MA
ENGINEER

FHWA

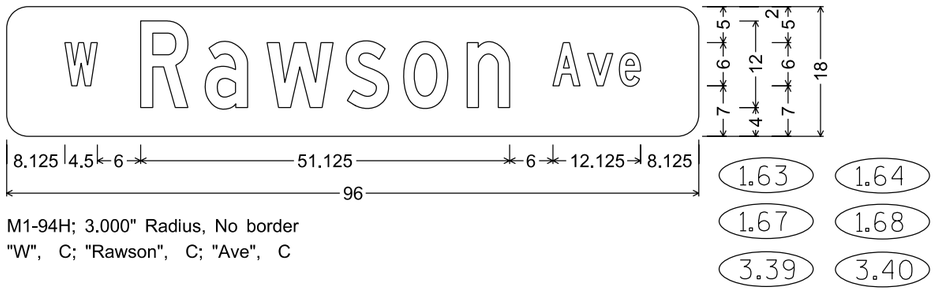
SDD 16A01 - 07

6

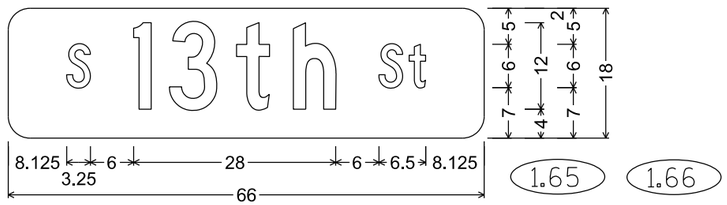
SDD 16A01 - 07

NOTES

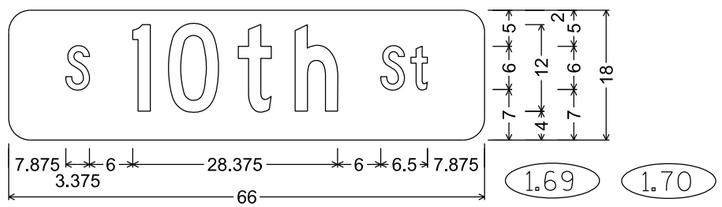
1. All Signs Type II - Type H Reflective
2. Color:
   Background - Green
   Message - White
3. Message Series - E or as noted



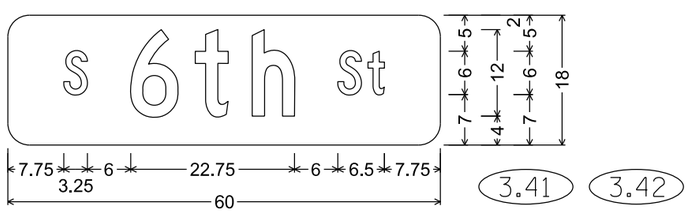
M1-94H; 3.000" Radius, No border
"W", C; "Rawson", C; "Ave", C



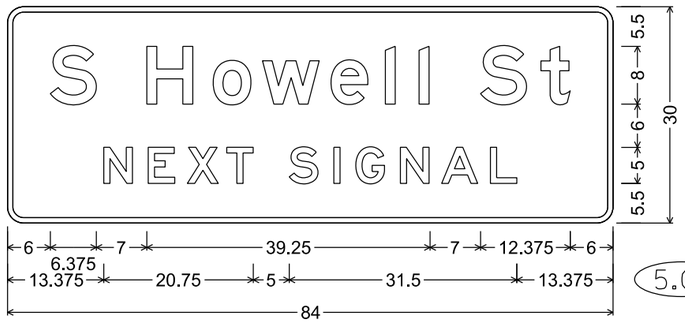
M1-94H; 3.000" Radius, No border
"S", C; "13th", C; "St", C



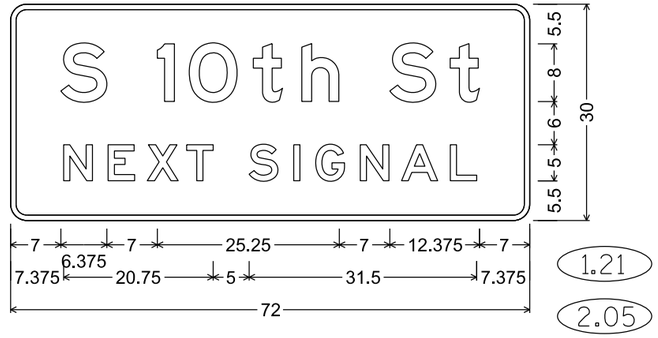
M1-94H; 3.000" Radius, No border
"S", C; "10th", C; "St", C



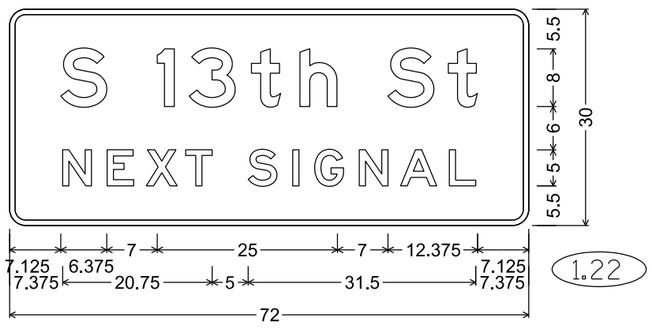
M1-94H; 3.000" Radius, No border
"S", C; "6th", C; "St", C



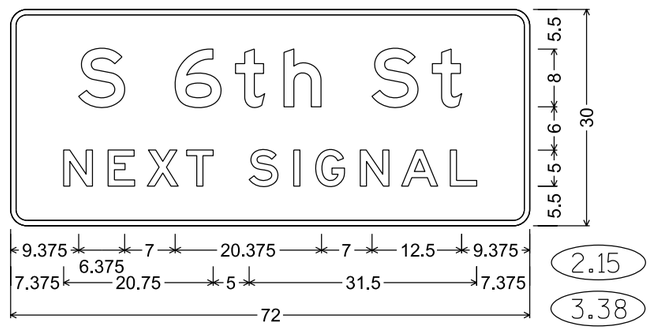
D1-65; 2.250" Radius, 0.750" Border



D1-65; 2.250" Radius, 0.750" Border



D1-65; 2.250" Radius, 0.750" Border



D1-65; 2.250" Radius, 0.750" Border

7

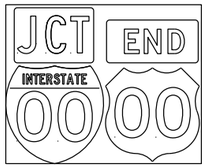
7

PROJECT NO: 2050-08-71	HWY: CTH BB	COUNTY: MILWAUKEE	PERMANENT SIGNING	SHEET NO: 350	E

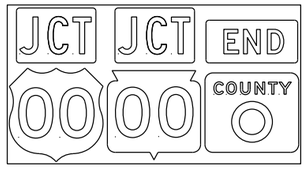
TYPICAL ASSEMBLIES



J1-1



J1-2



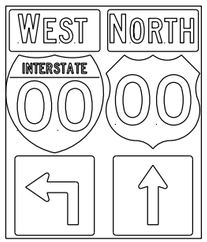
J1-3



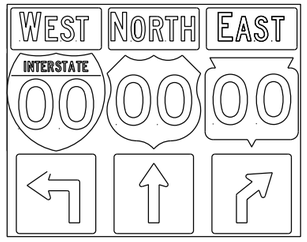
JR1-1



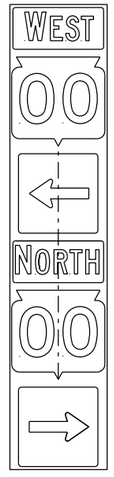
J2-1



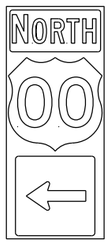
J2-2



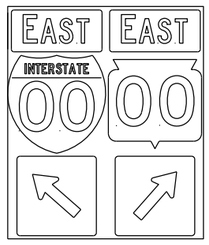
J2-3



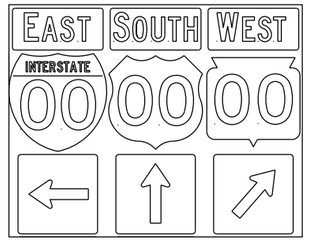
JV
(Typical Vertical J-Assembly
See Note 10 and 11)



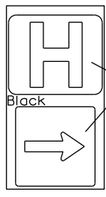
J3-1



J3-2



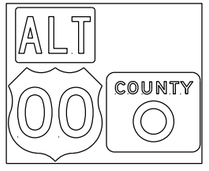
J3-3



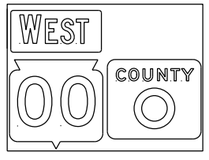
JH-1



J4-1



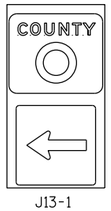
J4-2



J4-2



J12-1



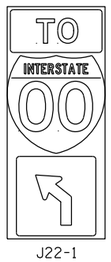
J13-1



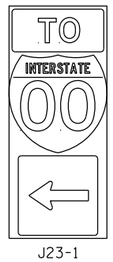
J32-1



J33-1



J22-1



J23-1



JR13-1



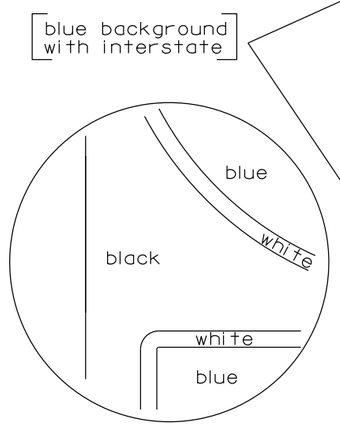
JR23-1

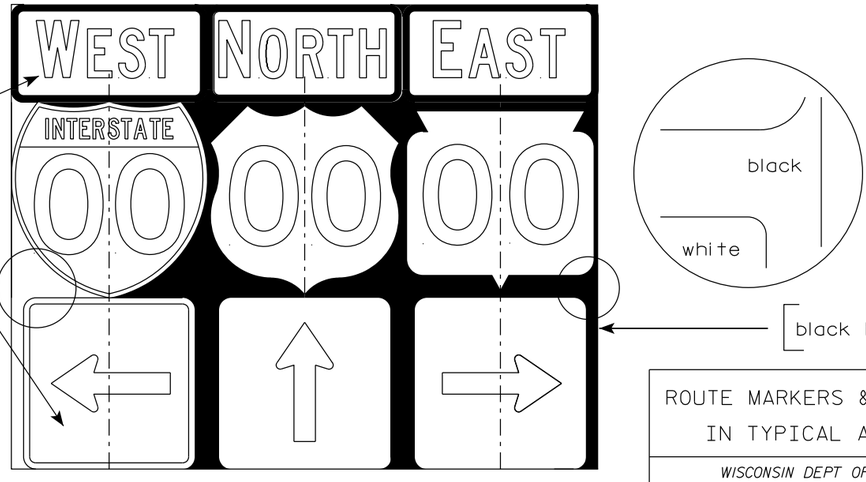


JR99-1

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

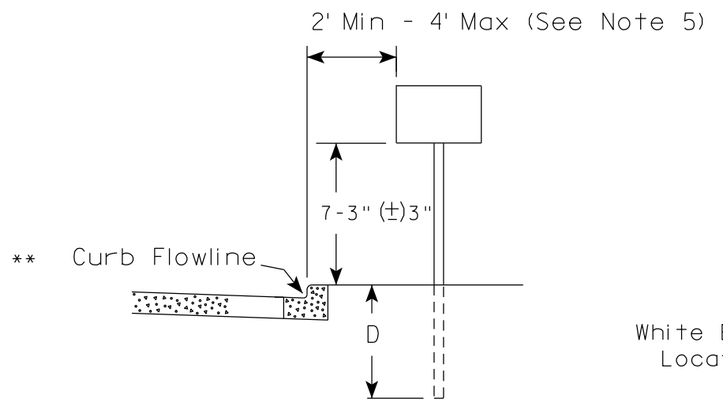
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 6/7/23 PLATE NO. A2-1S.10

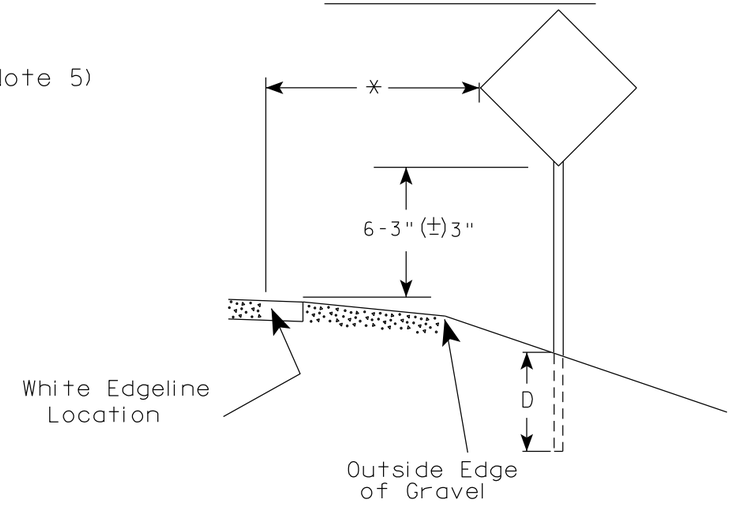
PROJECT NO:

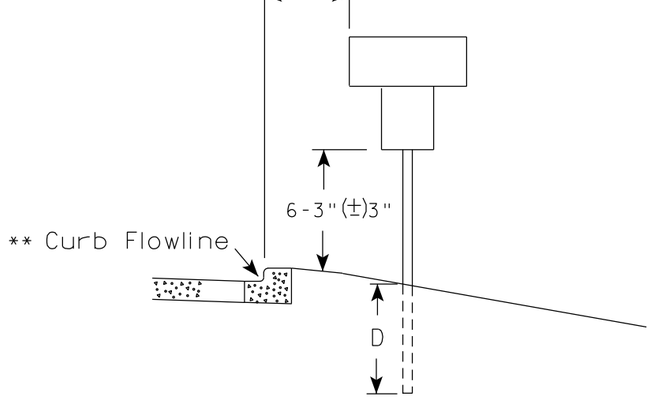
SHEET NO: 351 E

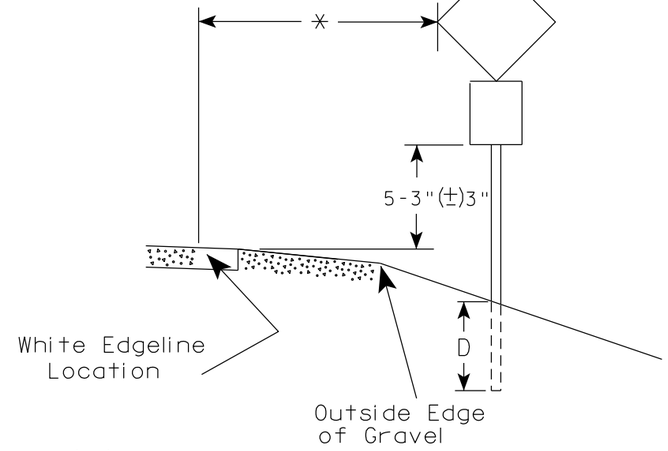
URBAN AREA



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.

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.

POST EMBEDMENT DEPTH

Area of Sign Installation (Sq. Ft.)	D (Min)
20 or Less	4'
Greater than 20	5'

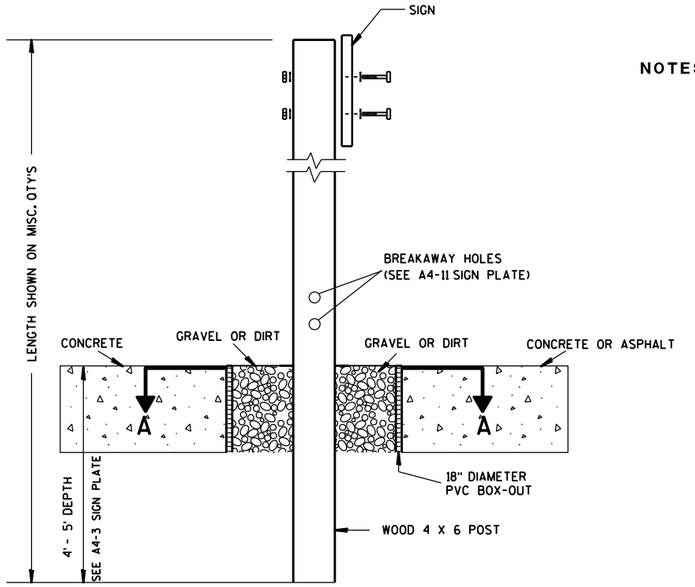
TYPICAL INSTALLATION OF PERMANENT TYPE II SIGNS ON SINGLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/6/23 PLATE NO. A4-3.23

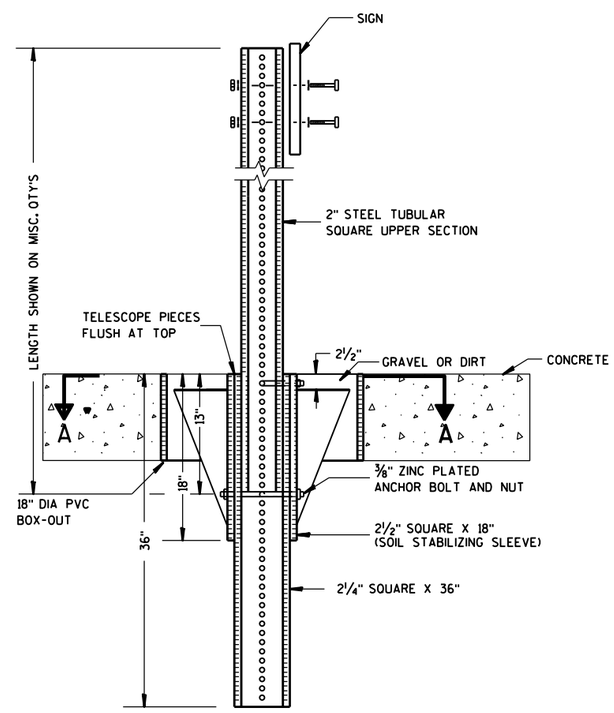
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 352	E



ELEVATION VIEW

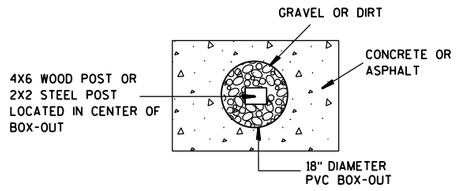
DETAIL OF WOOD 4 X 6 SIGN POST IN BOX-OUT

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

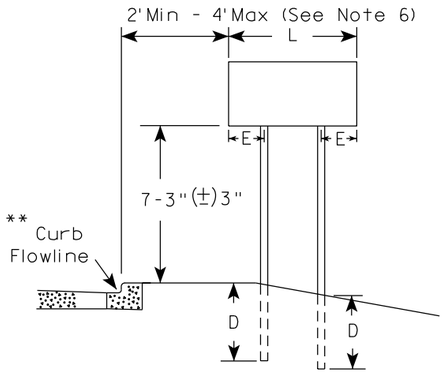
APPROVED Matthew R Rauch
for State Traffic Engineer

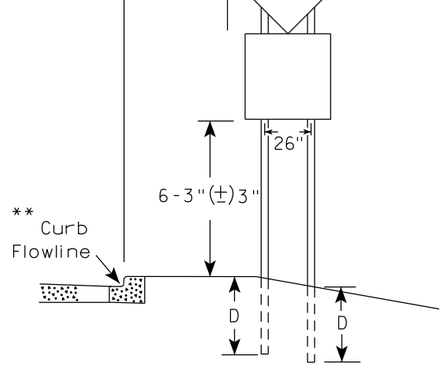
DATE 1/27/14 PLATE NO. A4-3B.1

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

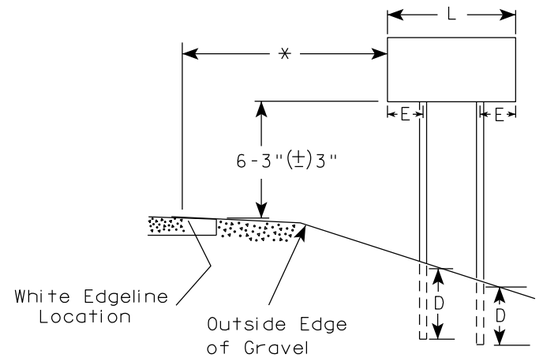
URBAN AREA

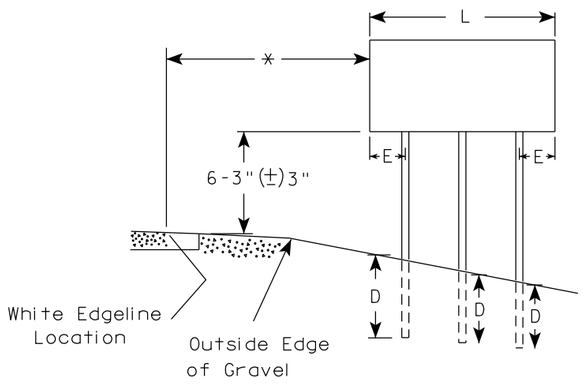


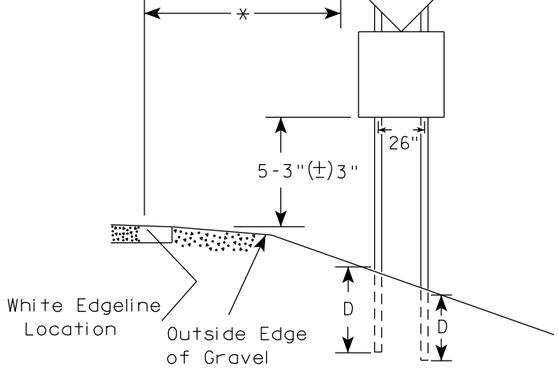


48" DIAMOND WARNING SIGN

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'

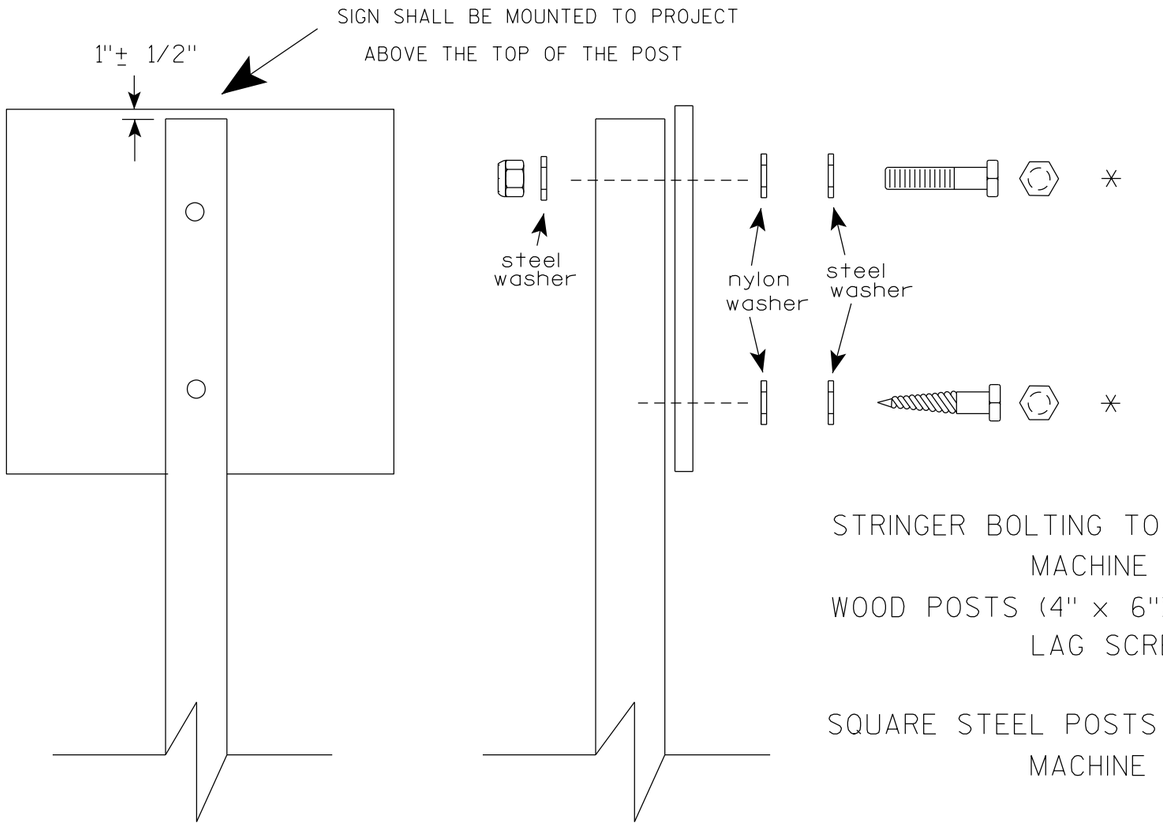
TYPICAL INSTALLATION OF TYPE II SIGNS ON MULTIPLE POSTS

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: 354	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

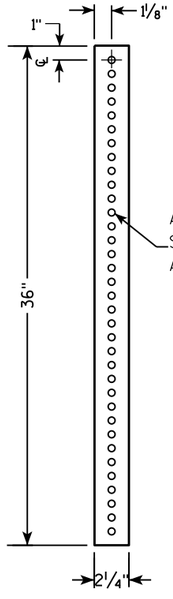
DATE 4/1/2020 PLATE NO. A4-8.9

PROJECT NO:

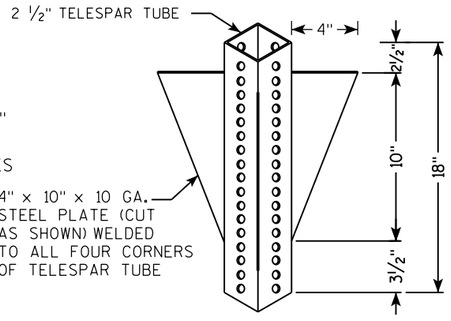
SHEET NO: 355 E

TELESCOPIC TUBING ANCHORS
TWO PIECE SYSTEM

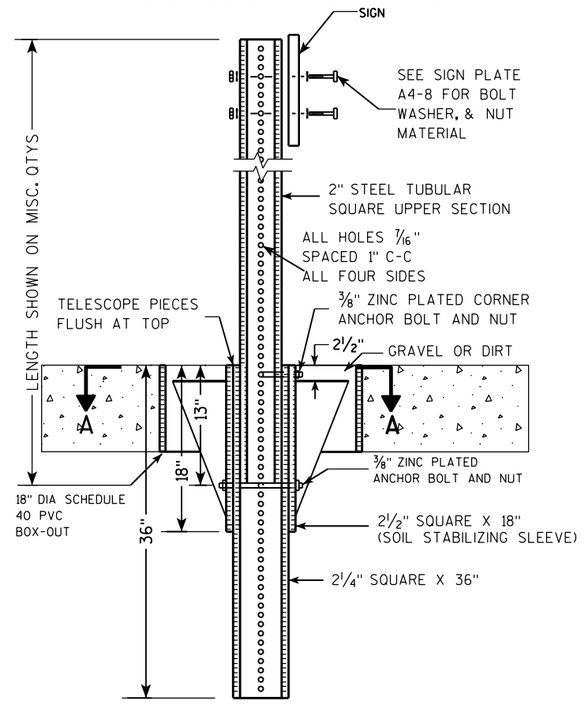
2 1/4 " SQUARE
12 GAUGE
PERFORATED
GALVANIZED FINISH



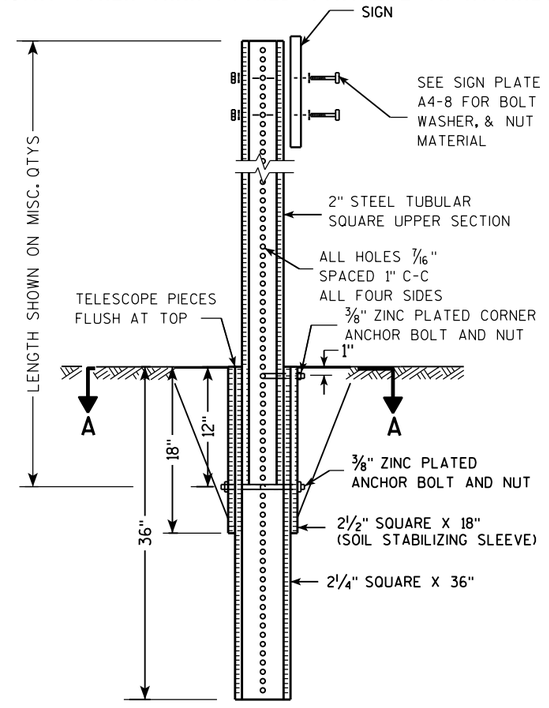
2 1/2 " SQUARE
12 GAUGE
OMNI-DIRECTIONAL
PERFORATED
SOIL STABILIZING SLEEVE
GALVANIZED FINISH

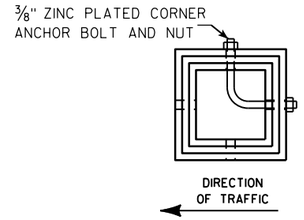


DETAIL OF TUBULAR STEEL SIGN POST
(IN POURED CONCRETE OR ASPHALT)



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

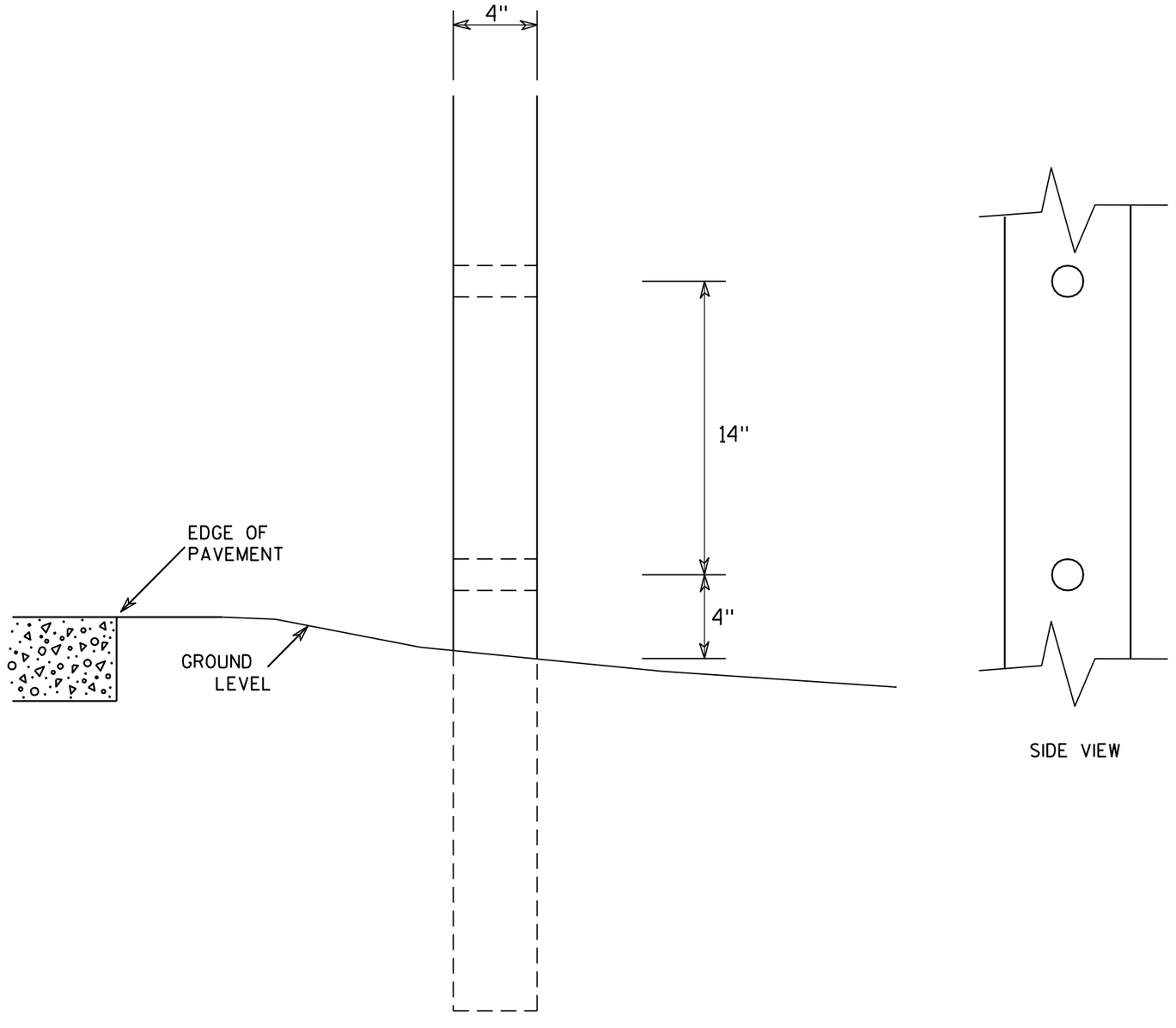
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/05/15 PLATE 356 A4-9.9

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A49.DGN PLOT DATE : 05-FEB-2015 17:09 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 13.659812:1.000000

WISDOT/CADDS SHEET 42



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

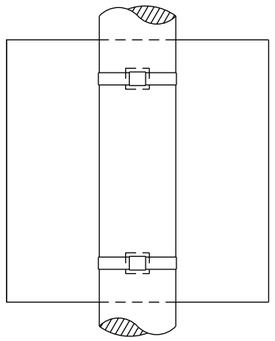
APPROVED Chester J Spang
for State Traffic Engineer

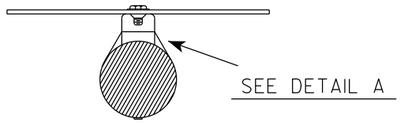
DATE 3/27/97 PLATE NO. A4-11.2

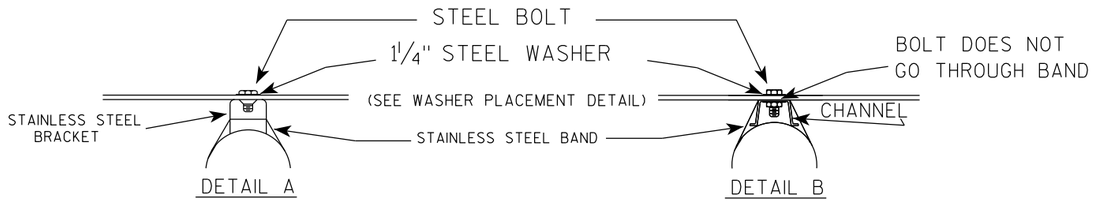
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 357	E

BANDING

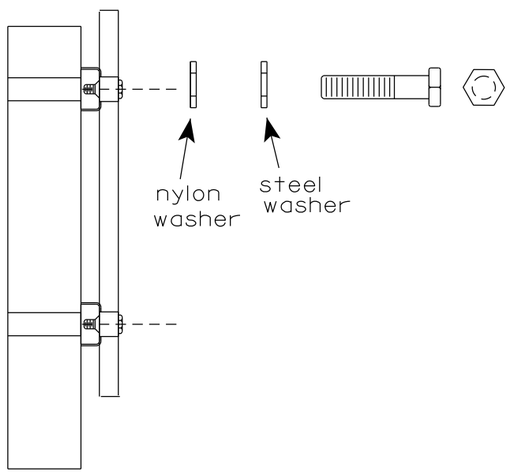
SINGLE SIGN







WASHER PLACEMENT

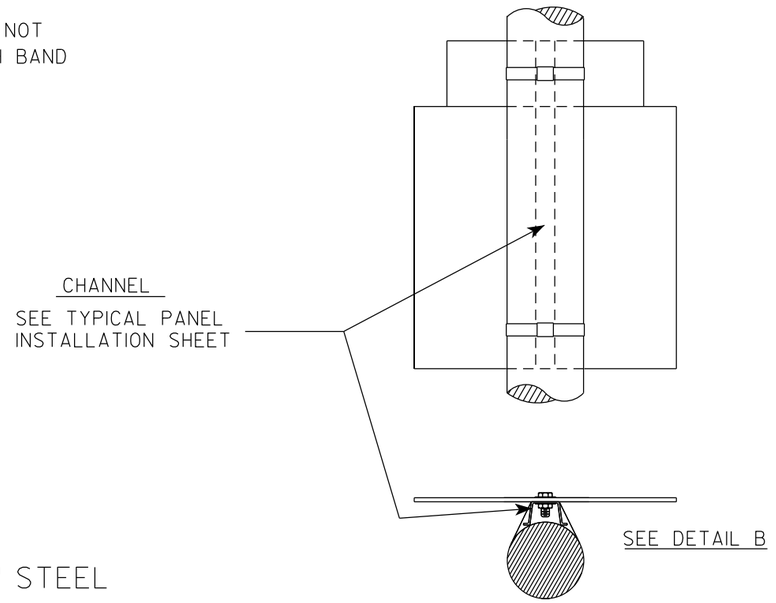


WASHERS (ALL POSTS) -
1-1/4" O.D. X 3/8" I.D. X 1/16" STEEL
1-1/4" O.D. X 3/8" I.D. X .080 NYLON
FOR ALL TYPE H SIGNS

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

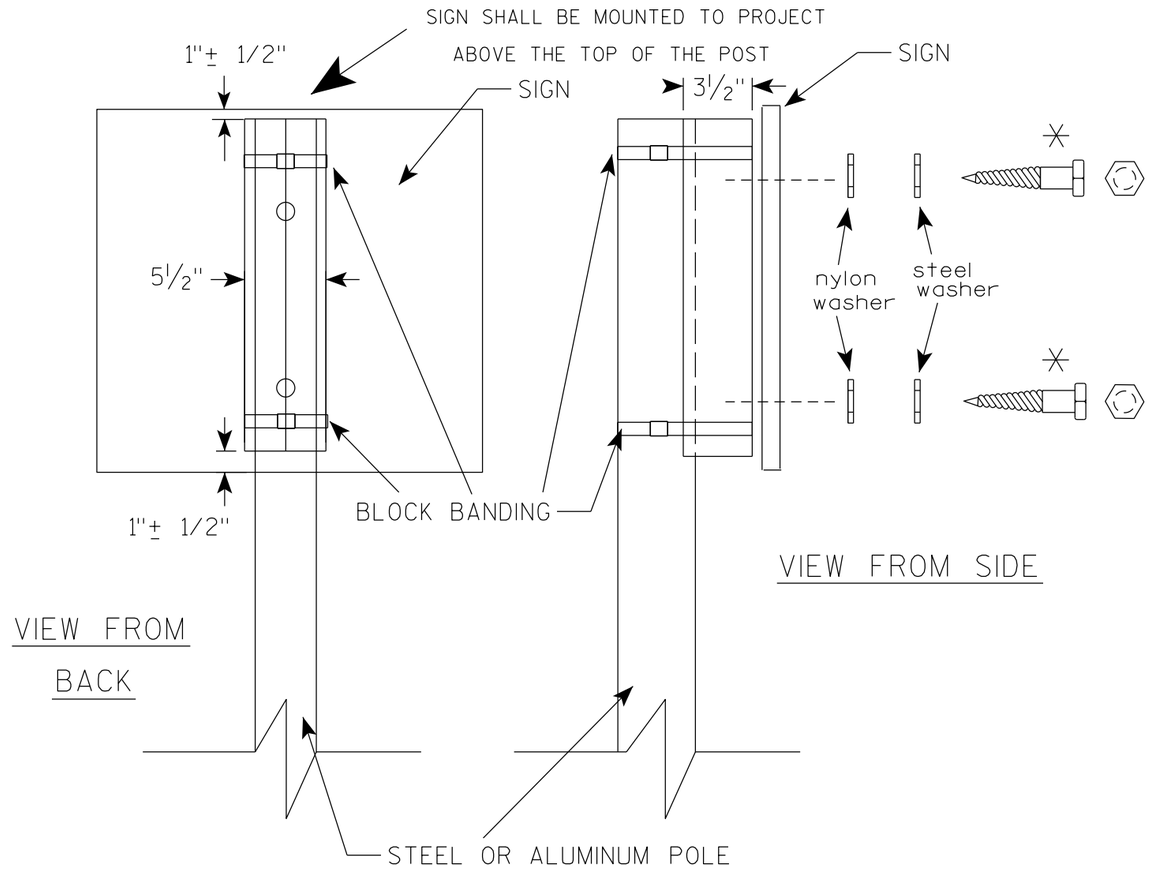
DATE 6/10/19 PLATE NO. A5-9.4

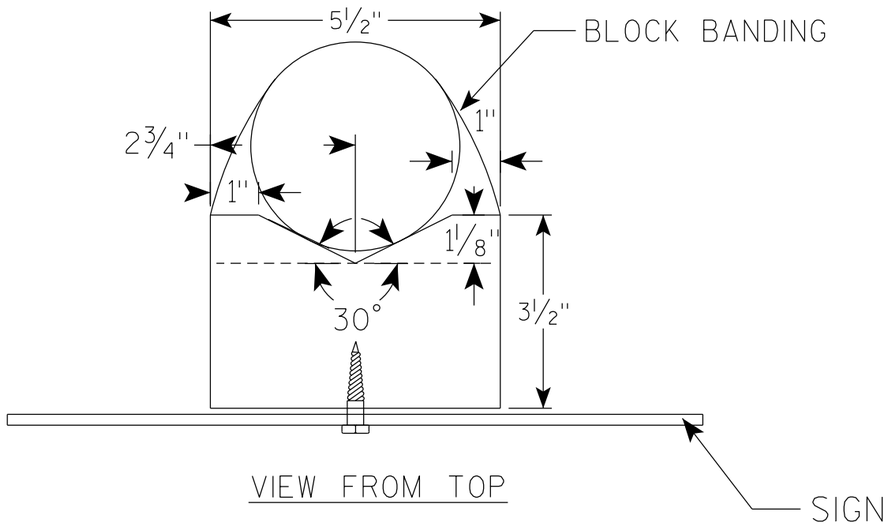
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 358	E

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)

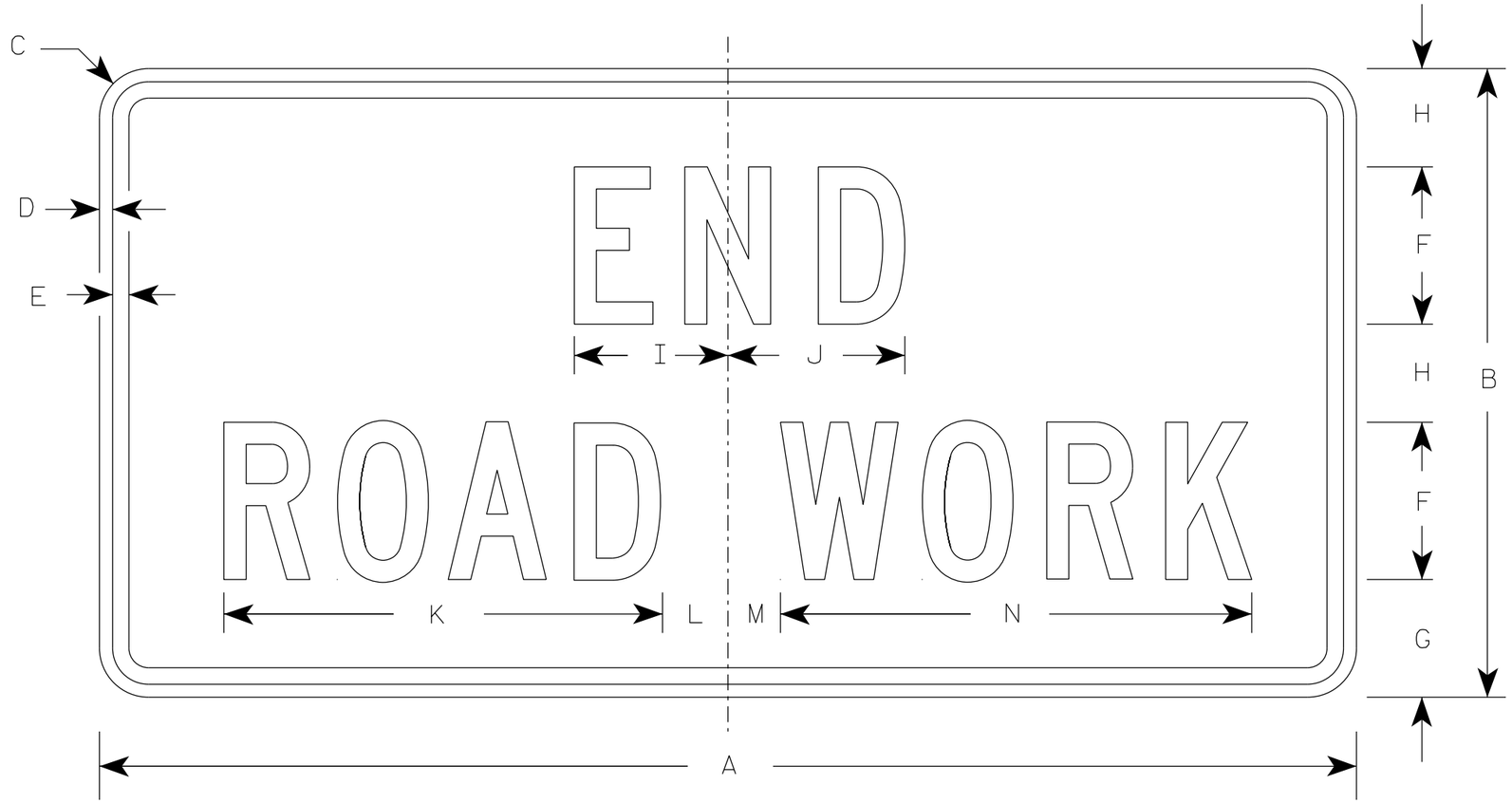
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 4/19/2022 PLATE NO. A5-10.3

PROJECT NO:

SHEET NO: 359 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

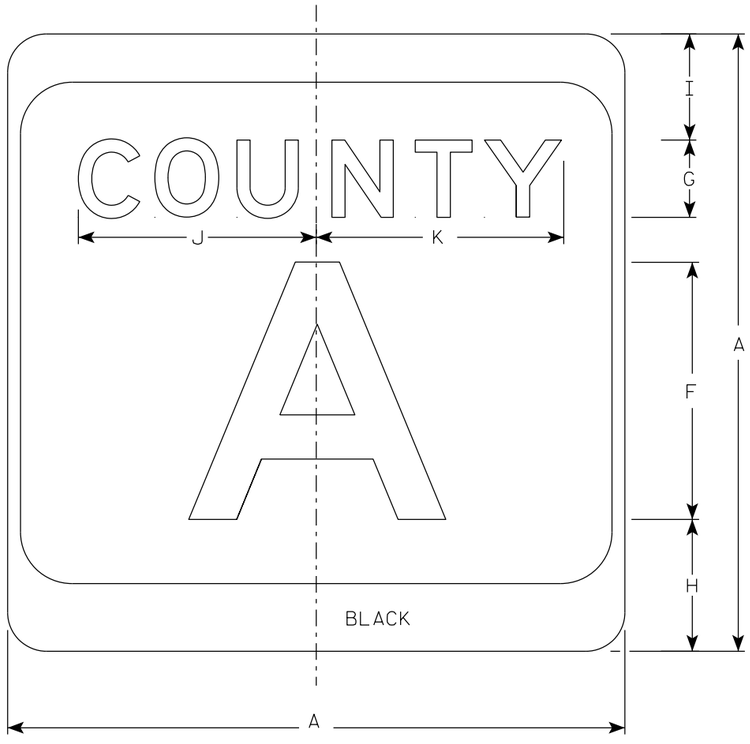
G20-2A

WISCONSIN DEPT OF TRANSPORTATION

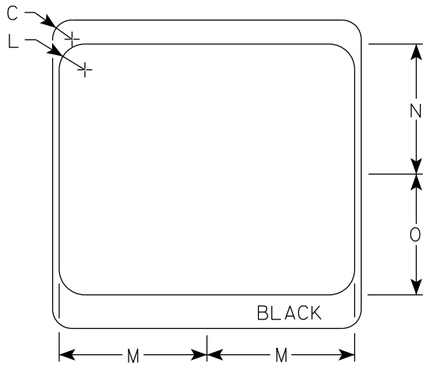
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 1/26/2023 PLATE NO. G20-2A.10

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 360 E

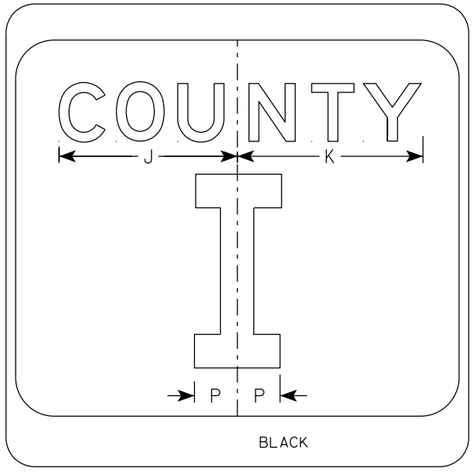


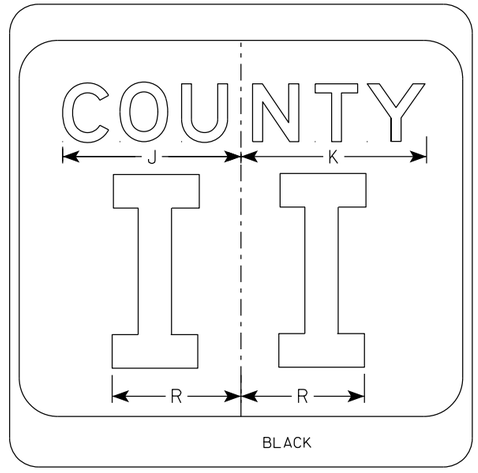
M1-5A



NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White & Black
   Message - Black
3. Message Series - see Note 4
4. Message Series E for 1 letter.
   Message Series D for 2 letters unless message is too big then Series C.
   Message Series C for 3 letters unless message is too big then Series B.
5. Substitute appropriate letters & optically center 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																											
2	24		1 1/2			10	3	5 1/8	4 1/8	9 1/4	9 5/8	2	11 1/2	10 1/8	9 3/8	2 1/4		6 5/8									4.0
2M	24		1 1/2			10	3	5 1/8	4 1/8	9 1/4	9 5/8	2	11 1/2	10 1/8	9 3/8	2 1/4		6 5/8									4.0
3	36		2 1/4			16	4	7 5/8	5 5/8	12 1/4	12 7/8	3	17 1/8	15 1/4	14	3 3/8		10									9.0
4	36		2 1/4			16	4	7 5/8	5 5/8	12 1/4	12 7/8	3	17 1/8	15 1/4	14	3 3/8		10									9.0
5	36		2 1/4			16	4	7 5/8	5 5/8	12 1/4	12 7/8	3	17 1/8	15 1/4	14	3 3/8		10									9.0

CTH MARKER
M1-5A FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

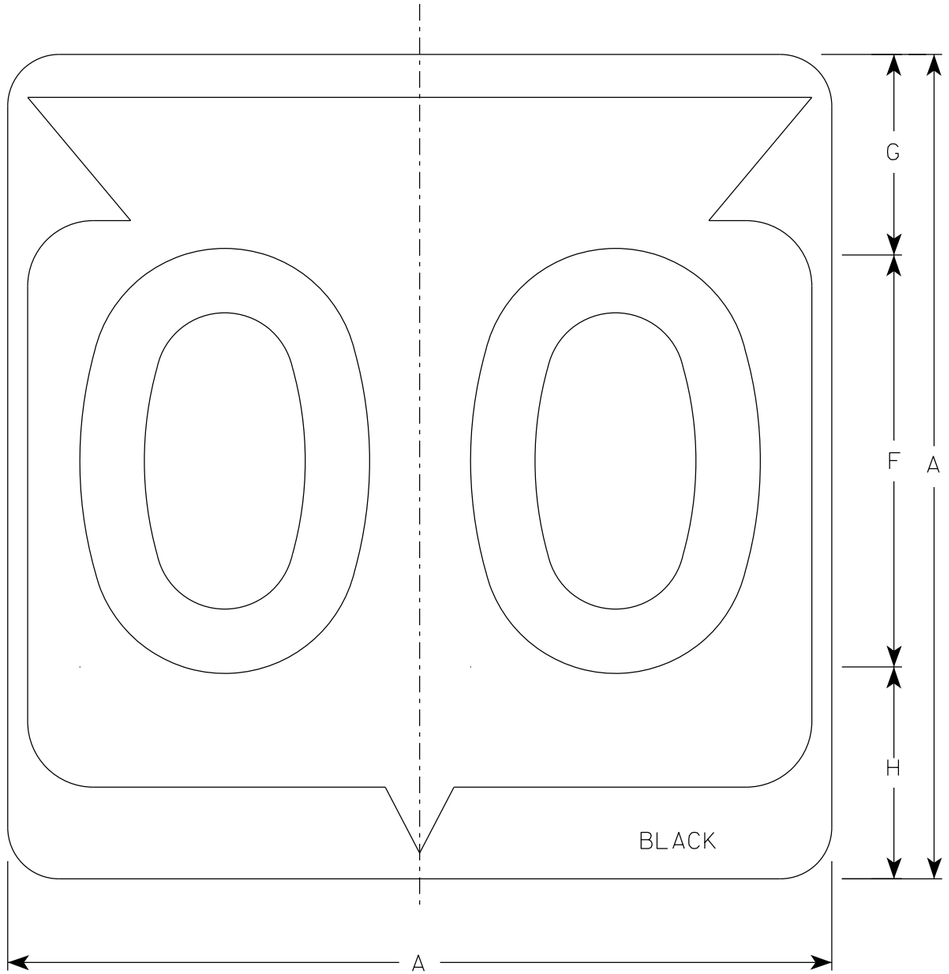
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/8/2022 PLATE NO. M1-5A.9

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\M15A.dgn PLOT DATE : 8-NOV 2022 8:26 PLOT BY : dotc4c PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

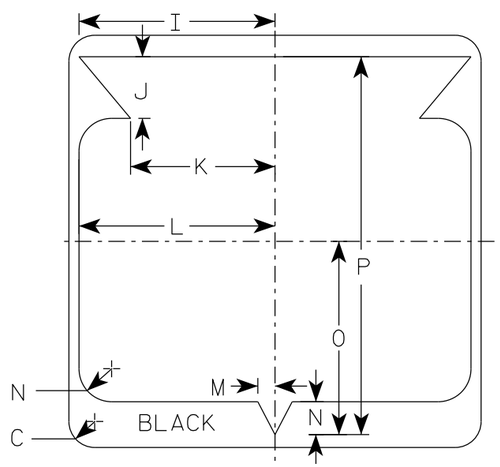
7



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

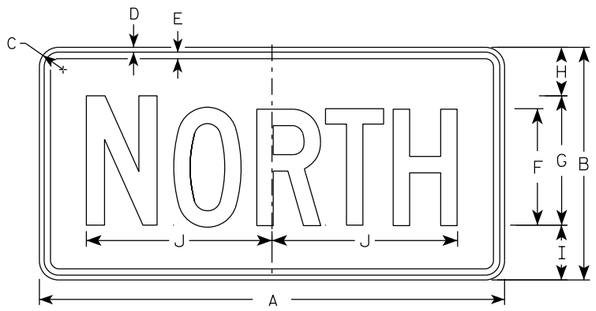
STATE ROUTE MARKER
M1-6 FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

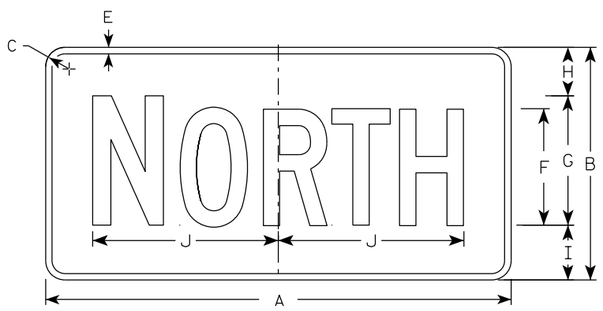
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/8/2022 PLATE NO. M1-6.11

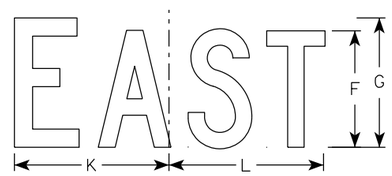
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 362	E



M3-1
MM3-1
MP3-1



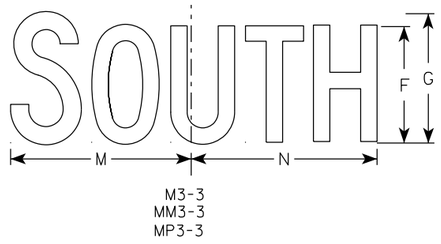
MB3-1
MK3-1
MN3-1



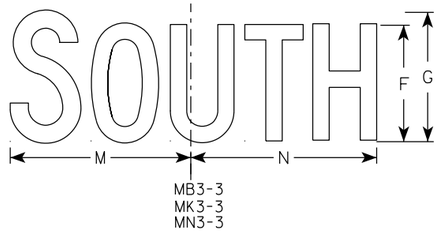
M3-2
MM3-2
MP3-2



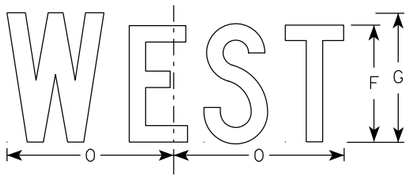
MB3-2
MK3-2
MN3-2



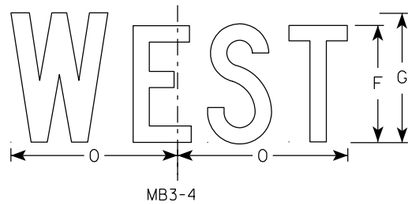
M3-3
MM3-3
MP3-3



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

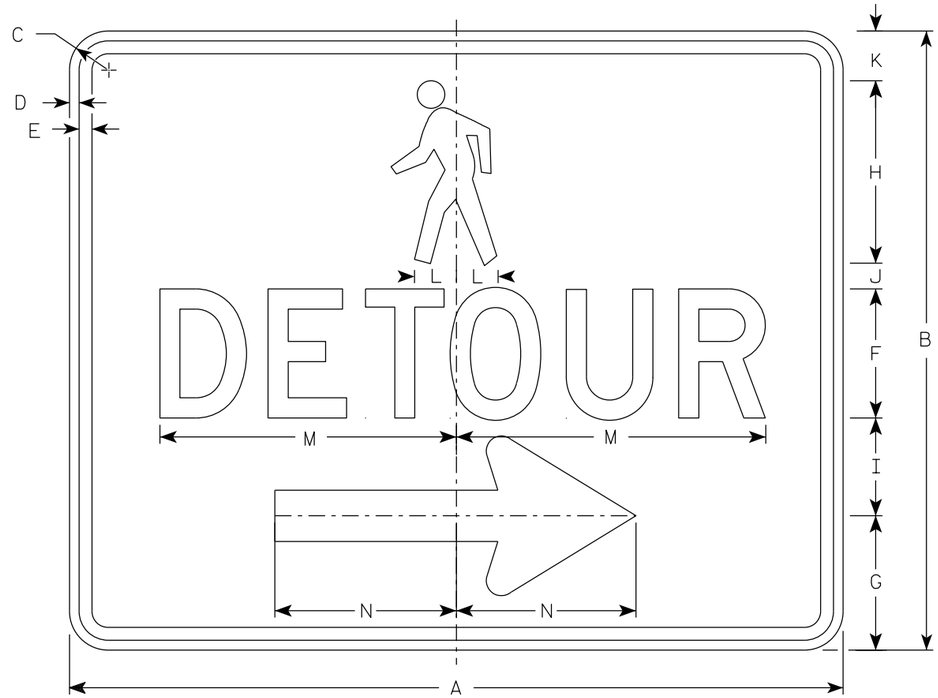
STANDARD SIGNS
M3-1 THRU M3-4
SERIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
For State Traffic Engineer

DATE 2/8/2023 PLATE NO. M3-1.15

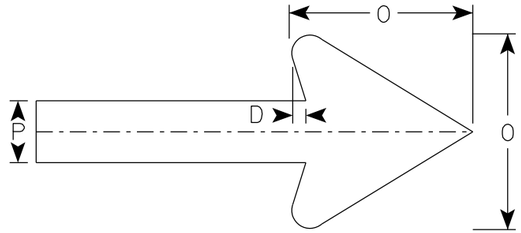
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 363 | E



M4-9BR

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.
5. M4-9BL is the same as M4-9BR 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																											
2S	30	24	1 1/2	3/8	1/2	5	5 1/4	7 1/8	3 3/4	1	1 1/8	1 5/8	11 3/4	7	6	2											5.0
2M	30	24	1 1/2	3/8	1/2	5	5 1/4	7 1/8	3 3/4	1	1 1/8	1 5/8	11 3/4	7	6	2											5.0
3																											
4																											
5																											

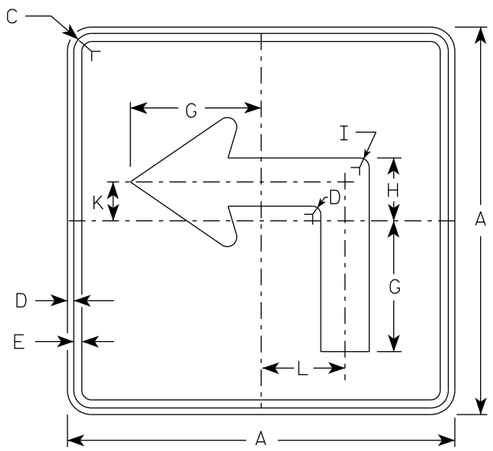
STANDARD SIGN
M4-9B L&R

WISCONSIN DEPT OF TRANSPORTATION

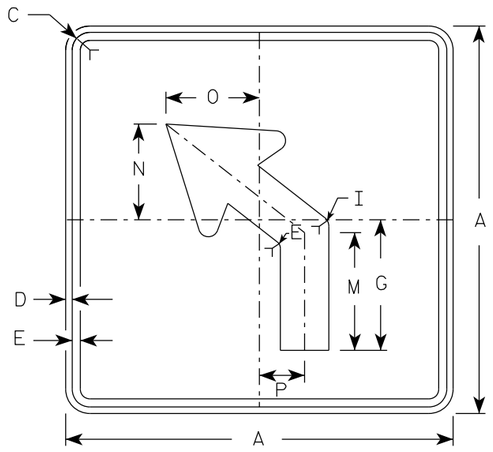
APPROVED Matthew R Rauch
For State Traffic Engineer

DATE 2/9/2023 PLATE NO. M4-9B.4

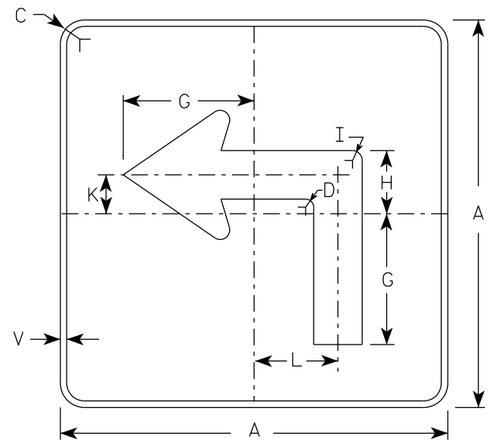
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 364 | E



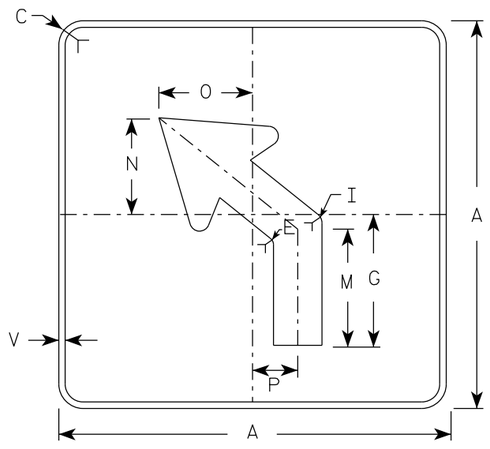
M5-1L
MM5-1L
MO5-1L
MP5-1L



M5-2L
MM5-2L
MO5-2L
MP5-2L



MB5-1L
MK5-1L
MN5-1L
MR5-1L

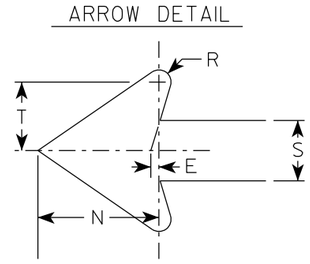


MB5-2L
MK5-2L
MN5-2L
MR5-2L

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

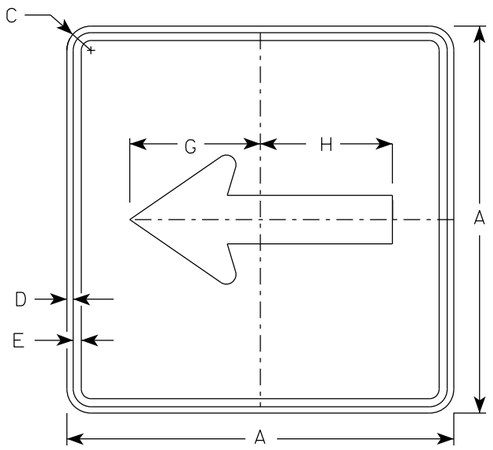
STANDARD SIGN
M5-1 & M5-2

WISCONSIN DEPT OF TRANSPORTATION

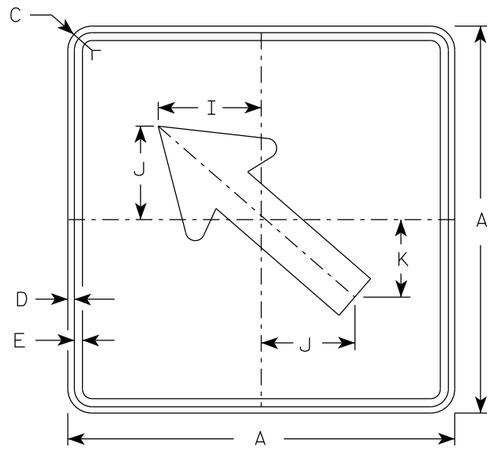
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/13/2023 PLATE NO. M5-1.15

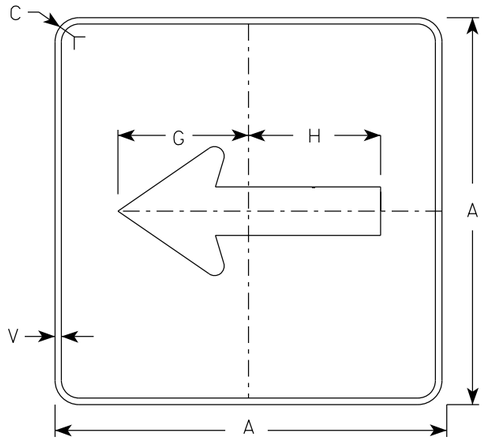
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 365 | E



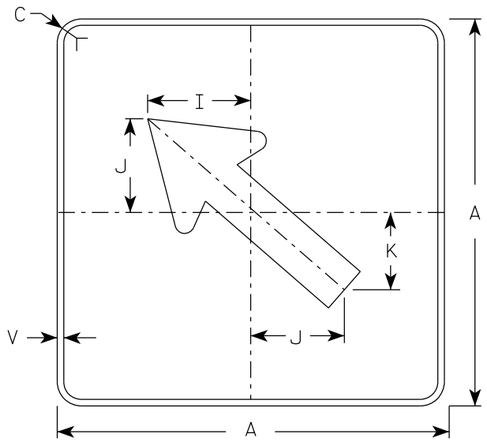
M6-1
MM6-1
MO6-1
MP6-1



M6-2
MM6-2
MO6-2
MP6-2



MB6-1
MK6-1
MN6-1
MR6-1

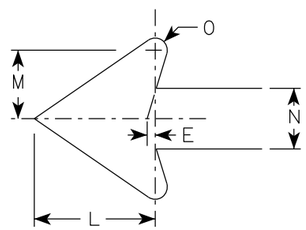


MB6-2
MK6-2
MN6-2
MR6-2

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

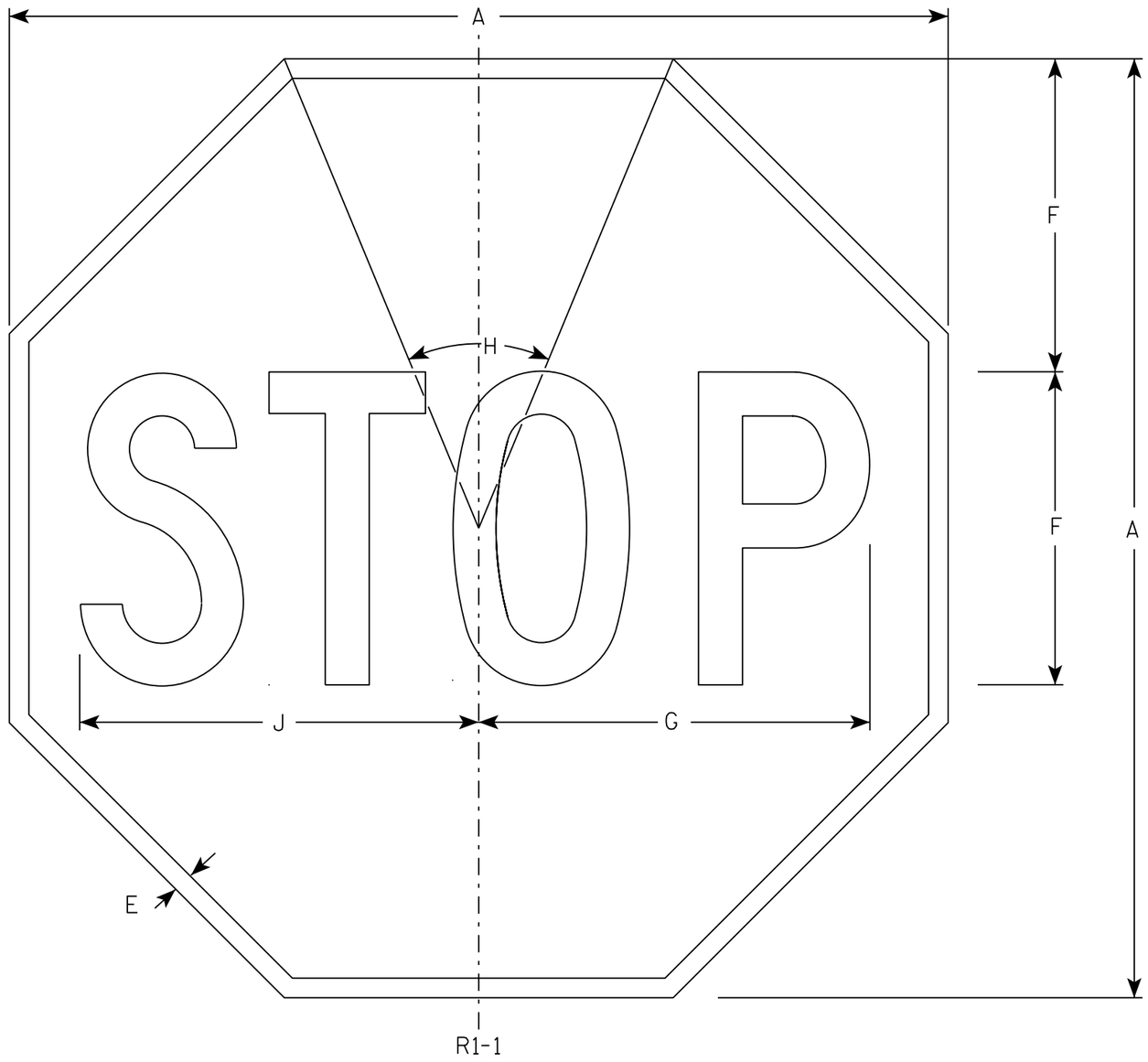
APPROVED Matthew R Rauch
For State Traffic Engineer

DATE 2/13/2023 PLATE NO. M6-1.16

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 366 | E

7

7



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

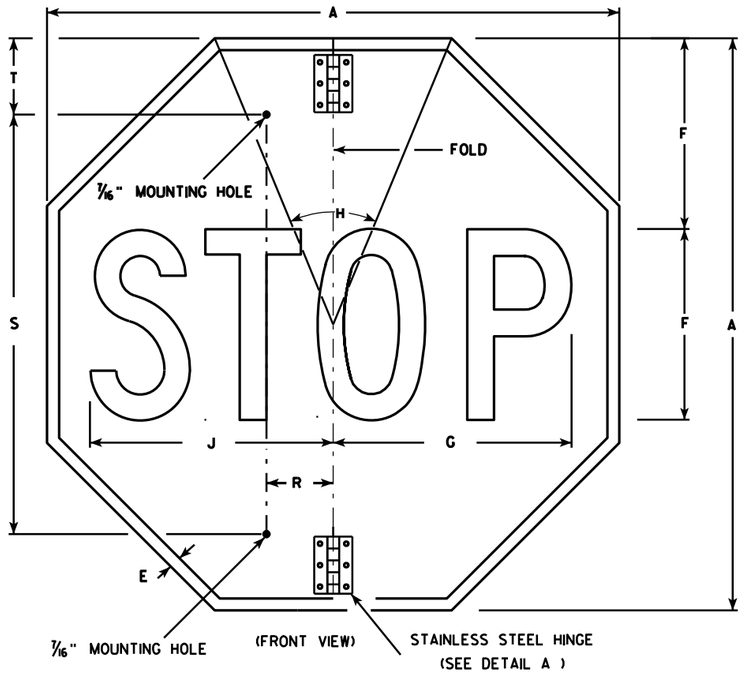
STANDARD SIGN
R1-1

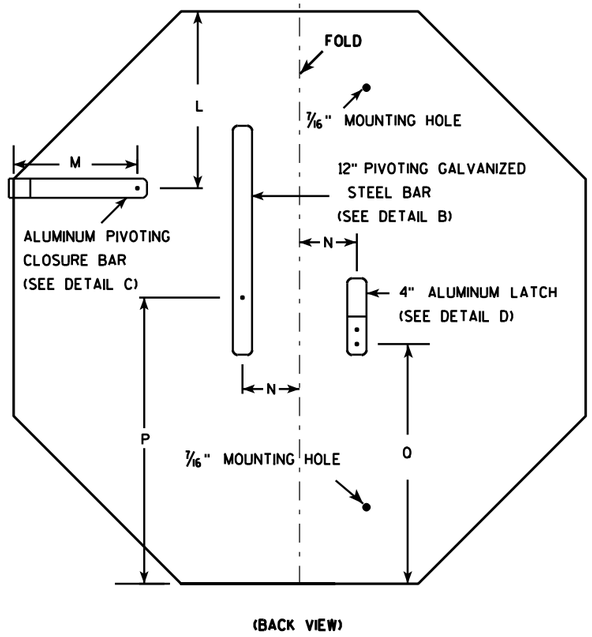
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/12/15 PLATE NO. R1-1.13

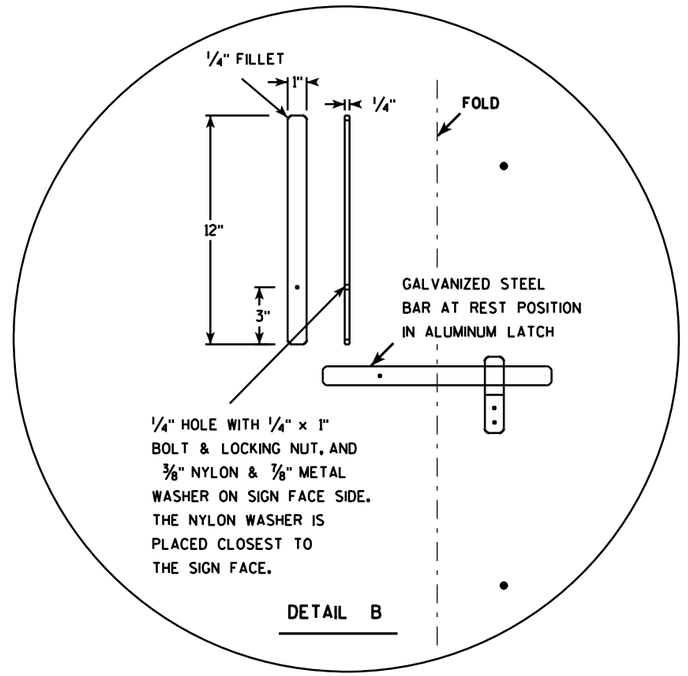
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 367	E

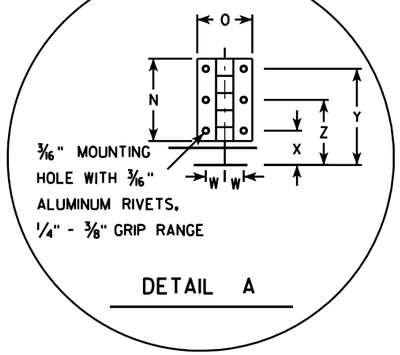


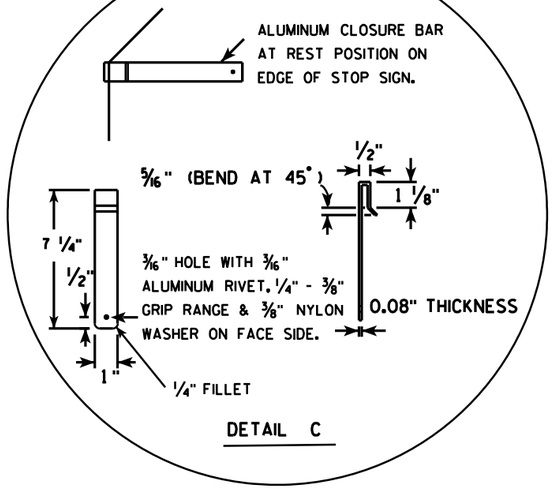


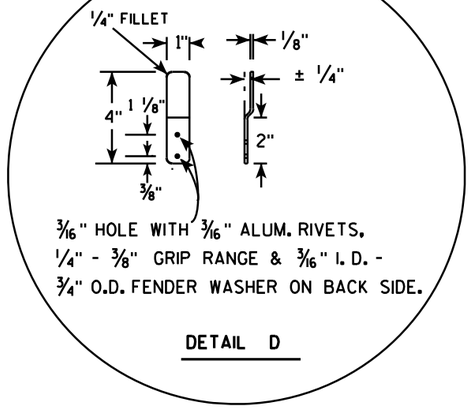
NOTES

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																											

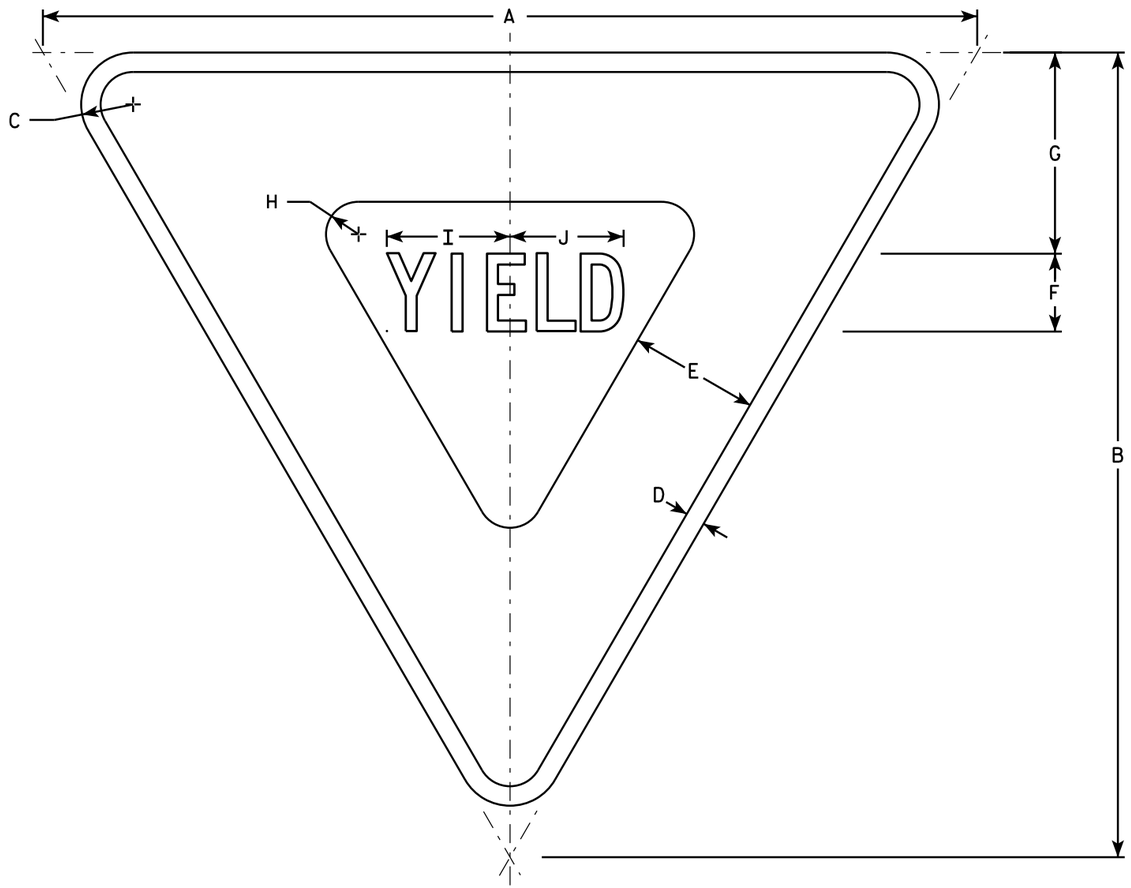
STANDARD SIGN
R1-1F

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: 368	E



R1-2

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   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. The border strip and word message are reflectorized red.

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	26	1 1/2	5/8	4	2 1/2	6 3/8	7/8	4	3 5/8																	2.71
2S	36	31	2	3/4	5	3	7 3/4	1 1/4	4 3/4	4 3/8																	3.88
2M	48	42	3	1	6	4	9 3/4	2	6 1/4	5 7/8																	7.00
3	48	42	3	1	6	4	9 3/4	2	6 1/4	5 7/8																	7.00
4	48	42	3	1	6	4	9 3/4	2	6 1/4	5 7/8																	7.00
5	60	52	3	1 1/2	8	5	13	2 1/2	7 7/8	7 1/4																	10.83
6																											
7	18	15 1/2	1	3/8	2 1/2	1 1/2	3 7/8	5/8	2 3/8	2 1/4																	0.97

STANDARD SIGN
R1-2

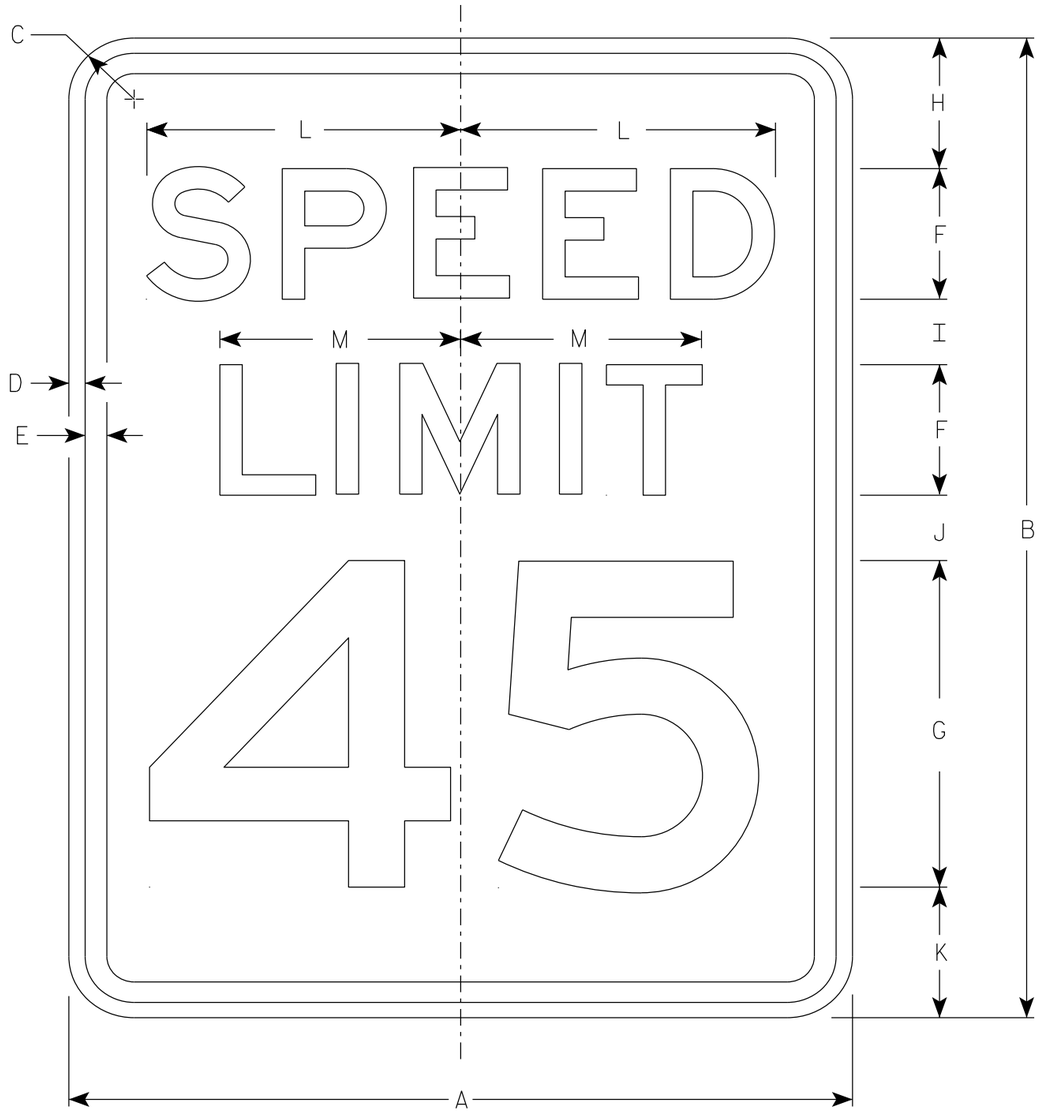
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 10/13/14 PLATE R1-2.12

PROJECT NO: | HWY: | COUNTY: | SHEET NO: E

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\R12.DGN PLOT DATE : 13-OCT-2014 15:12 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 5.837526:1.000000
WISDOT/CADDS SHEET 42



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

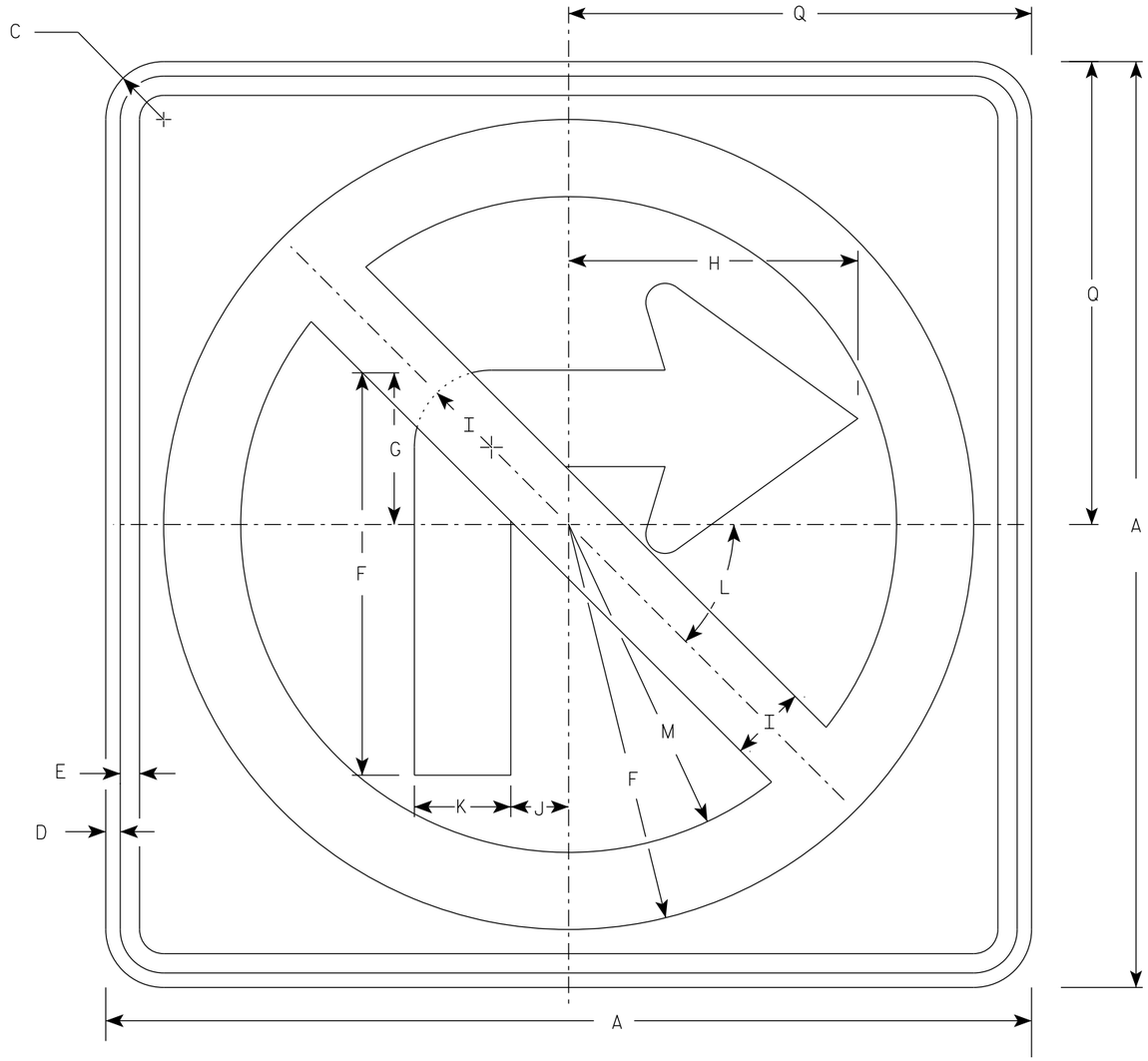
STANDARD SIGN
R2-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/1/23 PLATE NO. R2-1.14

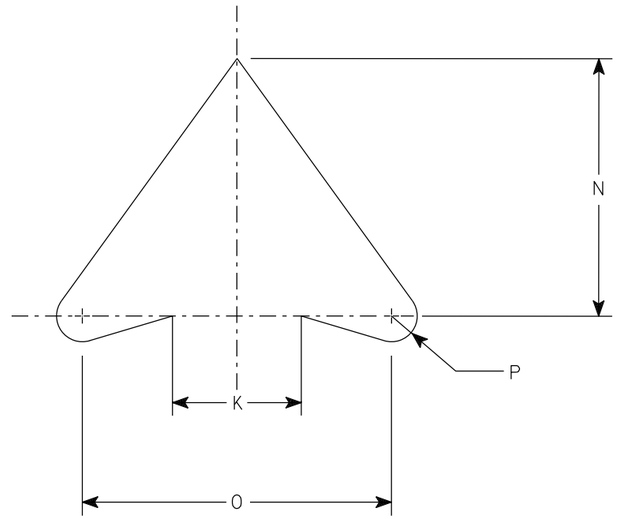
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 370 | E



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 ½	⅜	½	10 ½	4	7 ½	2	1 ½	2 ½	45	8 ½	5	6	½	12										4.0
2S	24		1 ½	⅜	½	10 ½	4	7 ½	2	1 ½	2 ½	45°	8 ½	5	6	½	12										4.0
2M	36		2 ¼	⅝	¾	15 ¾	6	11 ¼	3	2 ¼	3 ¾	45	12 ¾	7 ½	9	¾	18										9.0
3	36		2 ¼	⅝	¾	15 ¾	6	11 ¼	3	2 ¼	3 ¾	45	12 ¾	7 ½	9	¾	18										9.0
4	36		2 ¼	⅝	¾	15 ¾	6	11 ¼	3	2 ¼	3 ¾	45°	12 ¾	7 ½	9	¾	18										9.0
5	48		2 ¼	¾	1	21	8	15	4	3	5	45°	17	10	12	1	24										16.0

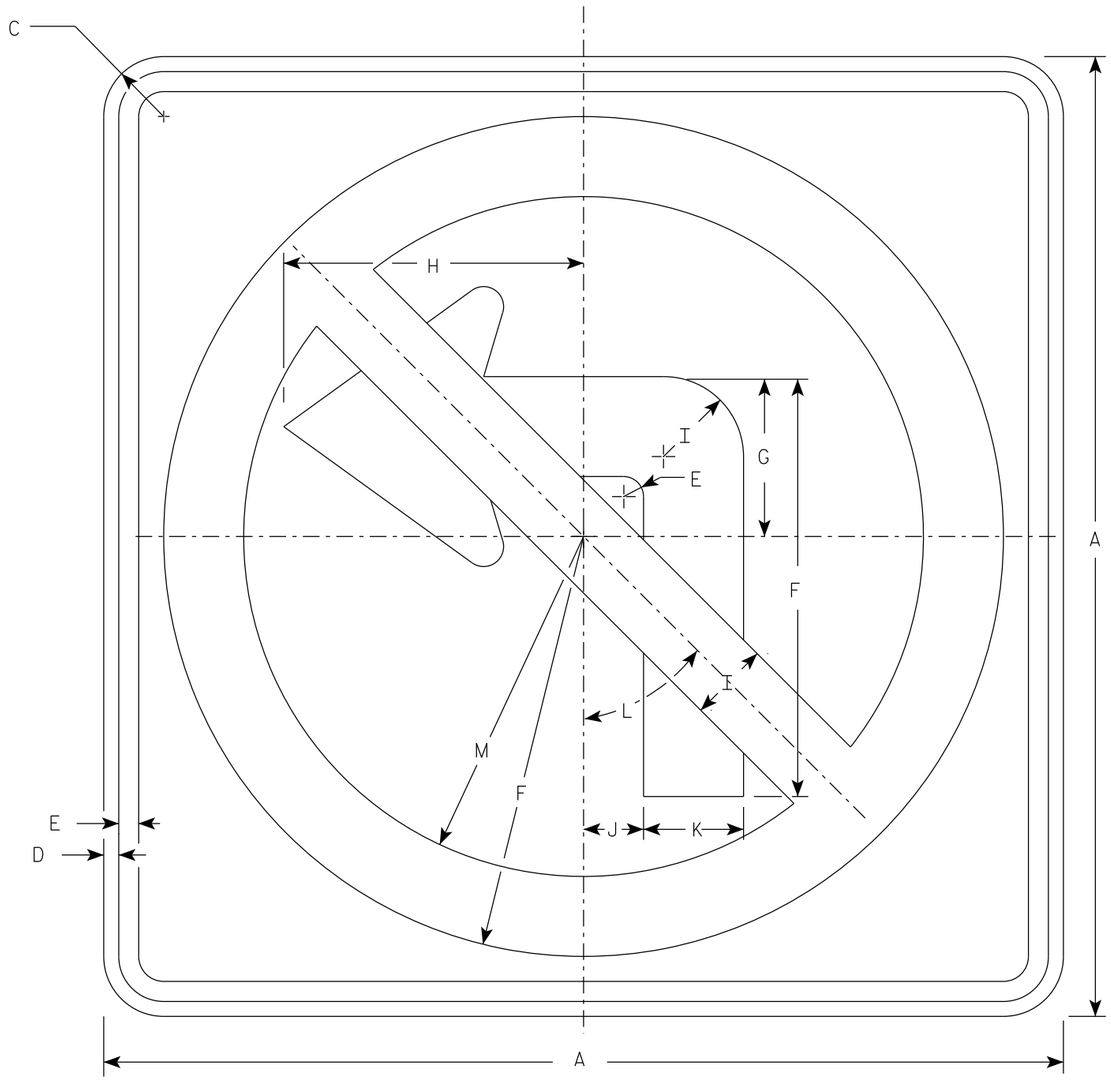
STANDARD SIGN
R3-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/2/23 PLATE NO. R3-1.6

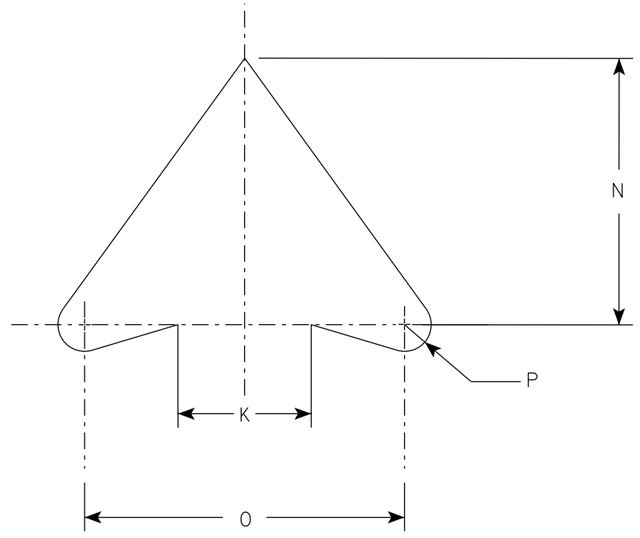
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 371 | E



R3-2

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											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											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											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											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											9.0
5	48		2 1/4	3/4	1	21	8	15	4	3	5	45°	17	10	12	1											16.0

STANDARD SIGN
R3-2

WISCONSIN DEPT OF TRANSPORTATION

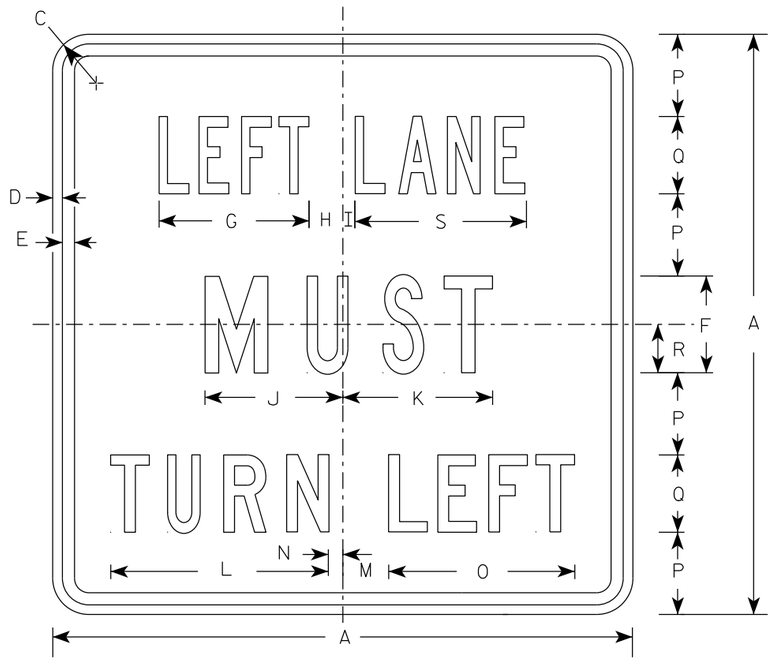
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/2/23 PLATE NO. R3-2.11

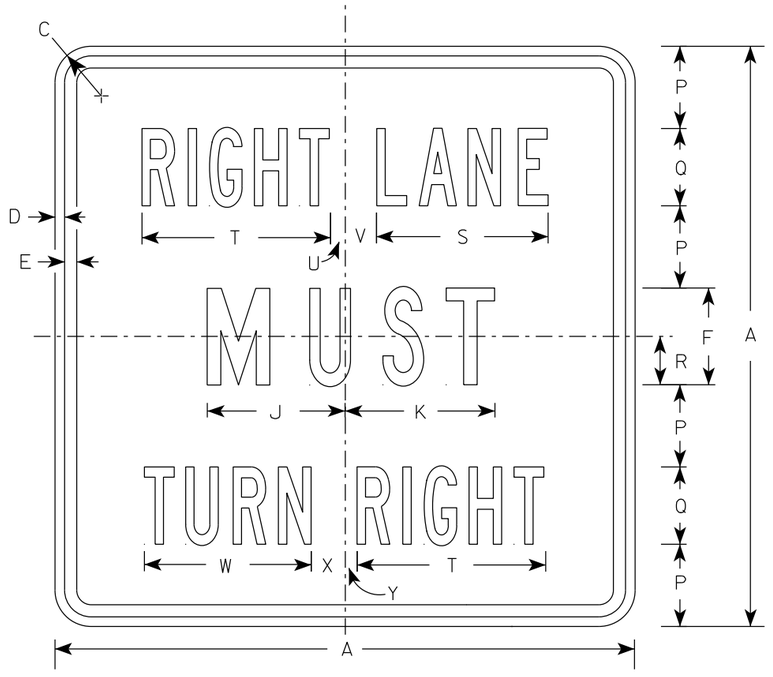
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 372 | E

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																											

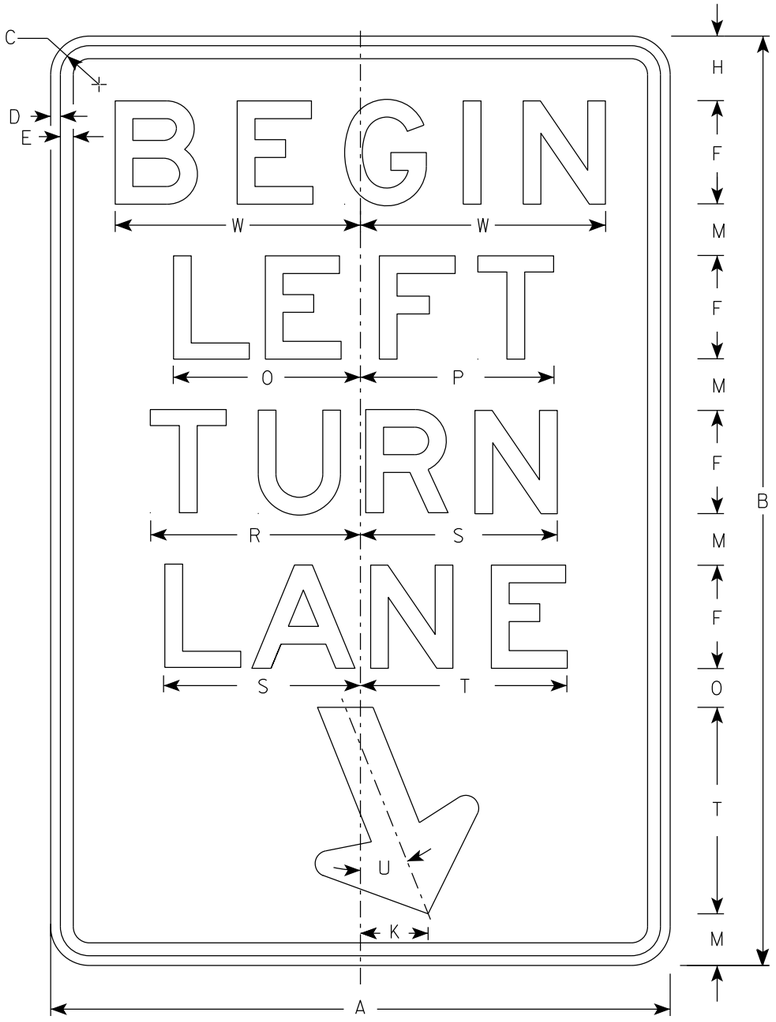
STANDARD SIGN
R3-7L & R3-7R

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/13/23 PLATE NO. R3-7.4

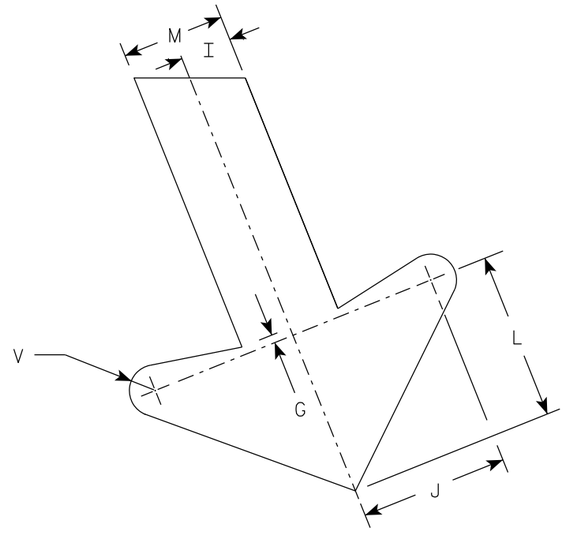
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 373 | E



R3-20L

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - E



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	24	36	1 1/2	3/8	1/2	4	1/4	2 1/2	1	2 7/8	2 5/8	3 1/4	2	1 1/2	7 1/4	7 1/2		8 1/8	7 5/8	8	22°	1/2	9 1/2				6.0
2M	24	36	1 1/2	3/8	1/2	4	1/4	2 1/2	1	2 7/8	2 5/8	3 1/4	2	1 1/2	7 1/4	7 1/2		8 1/8	7 5/8	8	22°	1/2	9 1/2				6.0
3	36	54	1 7/8	1/2	5/8	6	3/8	3 3/4	1 1/2	4 1/4	4	4 7/8	3	2 1/4	10 7/8	11 1/4		12 1/4	11 1/2	12	22°	3/4	13 1/4				13.5
4																											
5																											

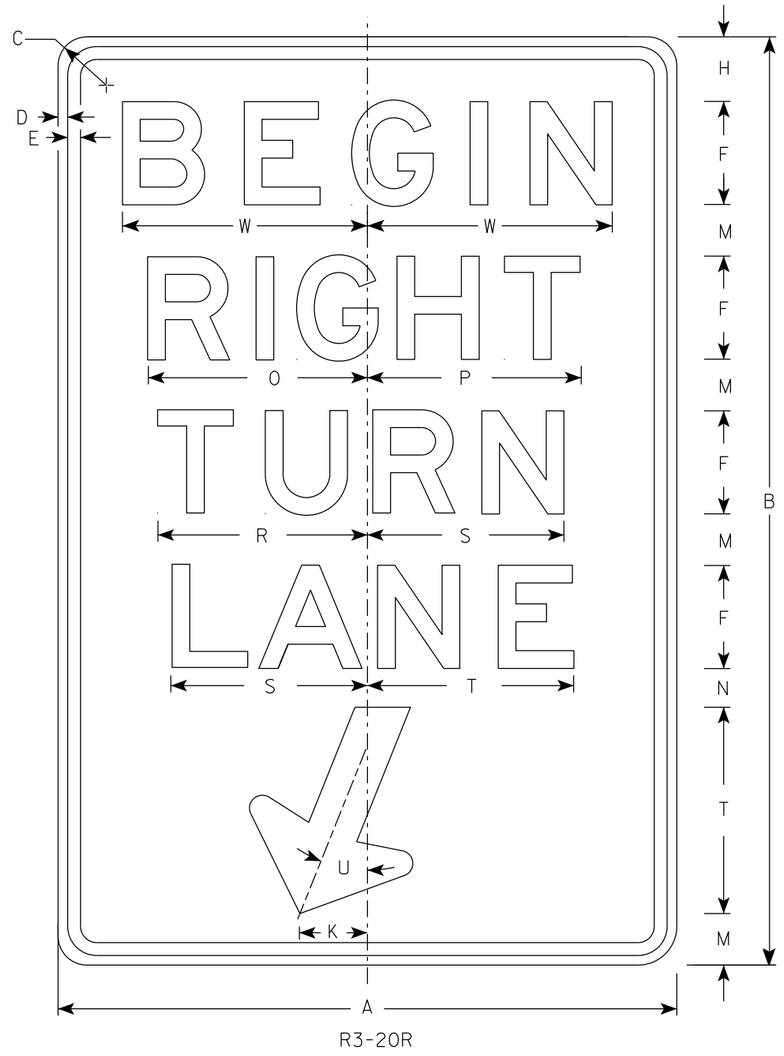
STANDARD SIGN
R3-20L

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/23/23 PLATE NO. R3-20L.8

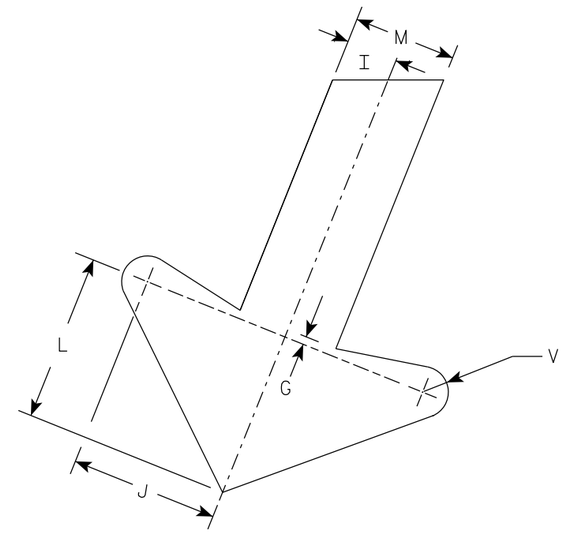
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 374	E



R3-20R

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - E



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	24	36	1 1/2	3/8	1/2	4	1/4	2 1/2	1	2 7/8	2 5/8	3 1/4	2	1 1/2	8 1/2	8 1/4		8 1/8	7 5/8	8	22°	1/2	9 1/2				6.0
2M	24	36	1 1/2	3/8	1/2	4	1/4	2 1/2	1	2 7/8	2 5/8	3 1/4	2	1 1/2	8 1/2	8 1/4		8 1/8	7 5/8	8	22°	1/2	9 1/2				6.0
3	36	54	1 7/8	1/2	5/8	6	3/8	3 3/4	1 1/2	4 1/4	4	4 7/8	3	2 1/4	12 3/4	12 1/2		12 1/4	11 1/2	12	22°	3/4	13 1/4				13.5
4																											
5																											

STANDARD SIGN
R3-20R

WISCONSIN DEPT OF TRANSPORTATION

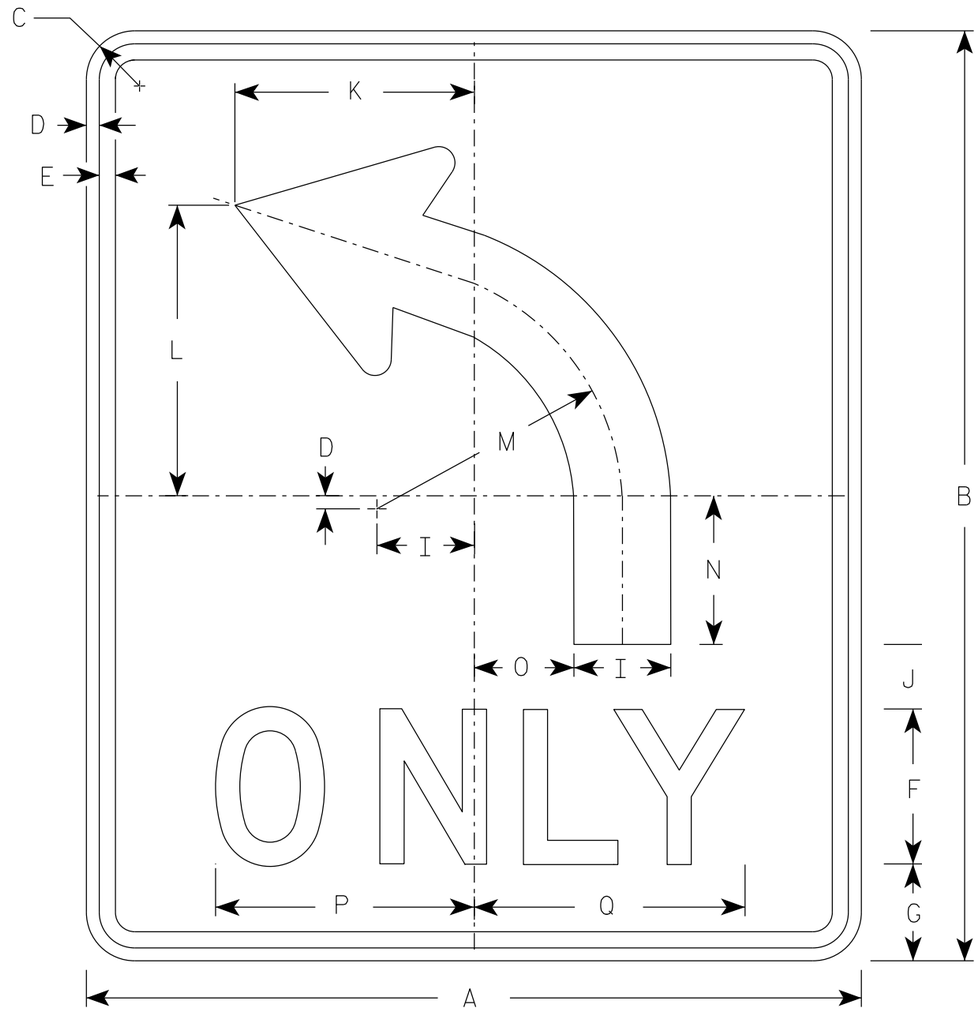
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/23/23 PLATE NO. R3-20R.7

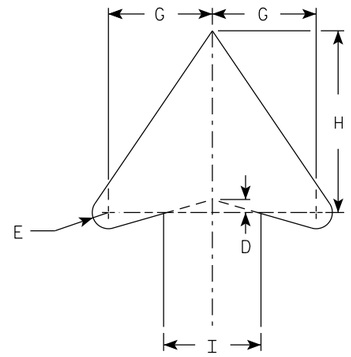
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 375 | E

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - D
4. R3-50R is the same as R3-50L except curved portion of arrow points right.



R3-50L



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	30	36	1 7/8	1/2	5/8	6	4	7	3 3/4	2 1/2	9 1/4	11 1/4	9 1/2	5 3/4	3 7/8	10	10 1/2										7.5
2M	30	36	1 7/8	1/2	5/8	6	4	7	3 3/4	2 1/2	9 1/4	11 1/4	9 1/2	5 3/4	3 7/8	10	10 1/2										7.5
3																											
4																											
5																											

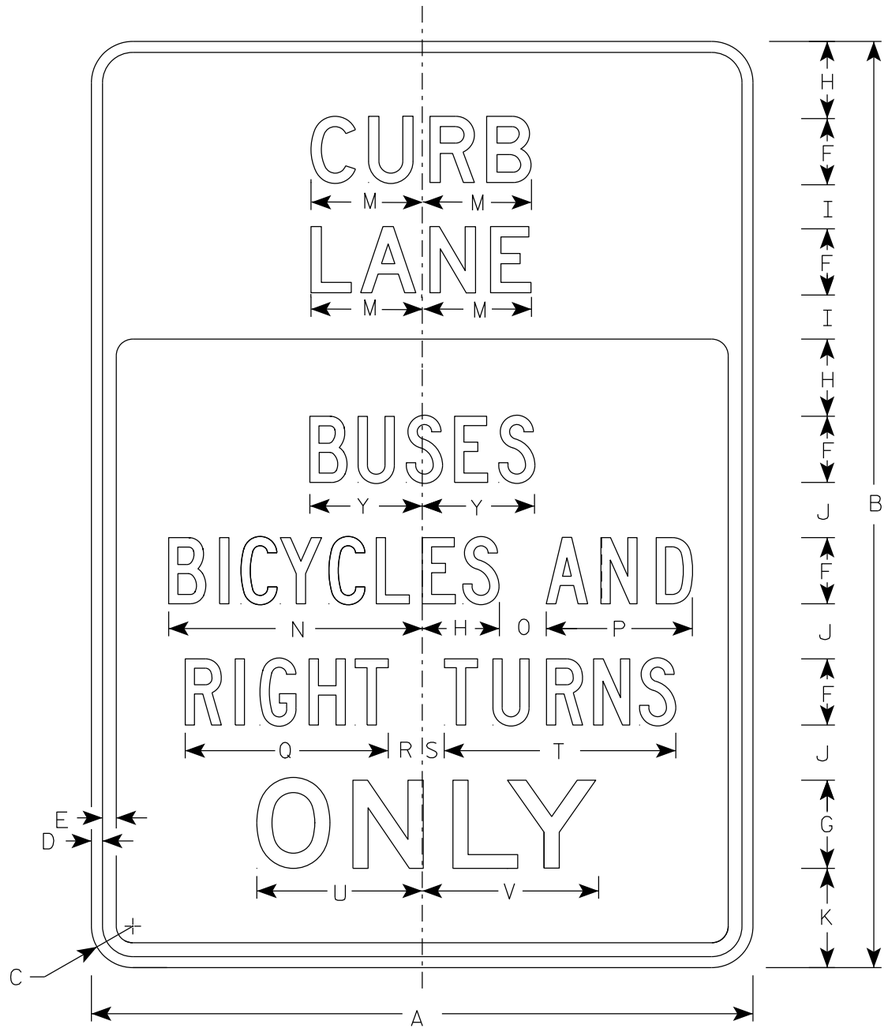
STANDARD SIGN
R3-50

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/23/23 PLATE NO. R3-50.3

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 376	E



R3-52C

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - See Note 4
   Message - See Note 4
3. Message Series - See Note 5
4. Top symbol and legend are White Type H Reflective with a Black background,
   Bottom legend is Black with White Type H Reflective background.
5. Lines 1 and 2 are series D.
   Lines 3 and 4 and 5 are Series C
   Bottom line 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																											
2S	30	42	1 7/8	1/2	5/8	3	4	3 1/2	2	2 1/2	4 1/2		5	11 1/2	2 1/8	6 5/8	9 1/4	1 1/2	1	10 1/2	7 1/2	8			5 1/8		8.75
2M	30	42	1 7/8	1/2	5/8	3	4	3 1/2	2	2 1/2	4 1/2		5	11 1/2	2 1/8	6 5/8	9 1/4	1 1/2	1	10 1/2	7 1/2	8			5 1/8		8.75
3																											
4																											
5																											

STANDARD SIGN
R3-52C

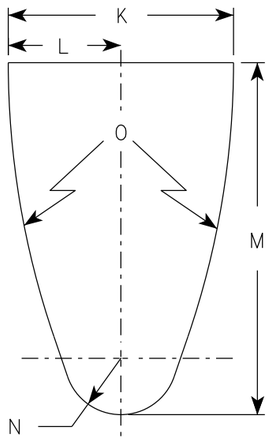
WISCONSIN DEPT OF TRANSPORTATION

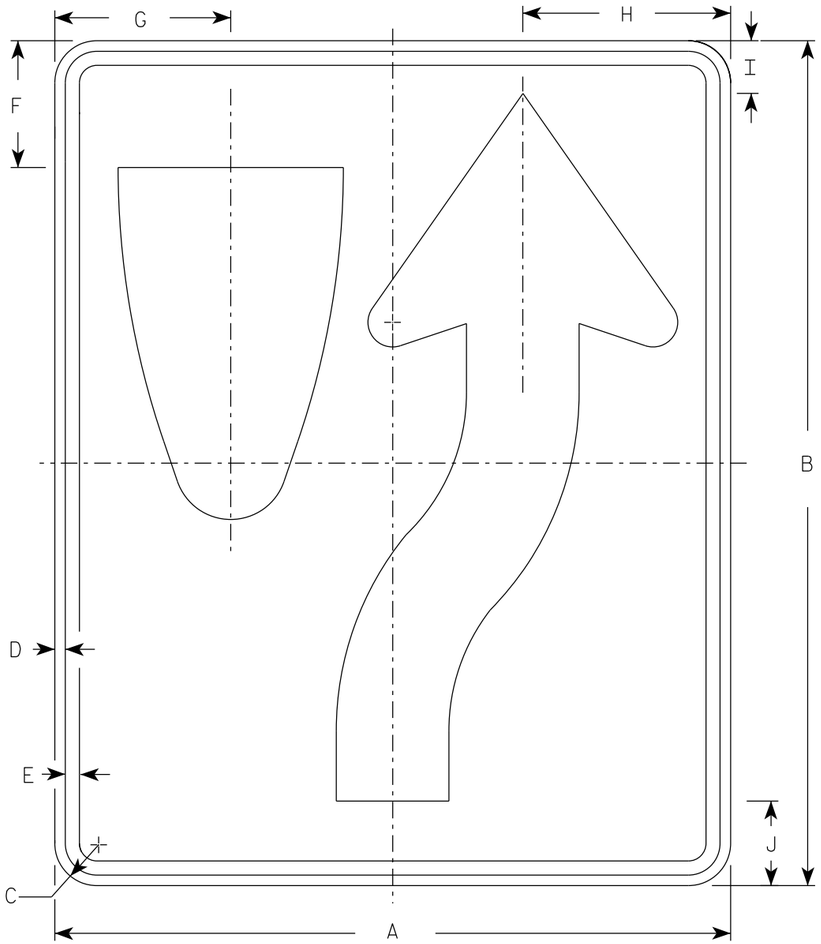
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/27/24 PLATE NO. R3-52C.2

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 377 | E

DIVIDER DETAIL



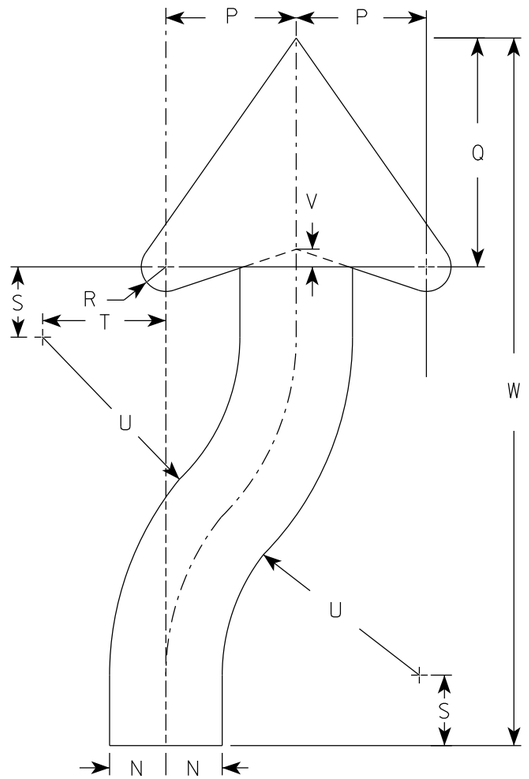


R4-7

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.

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

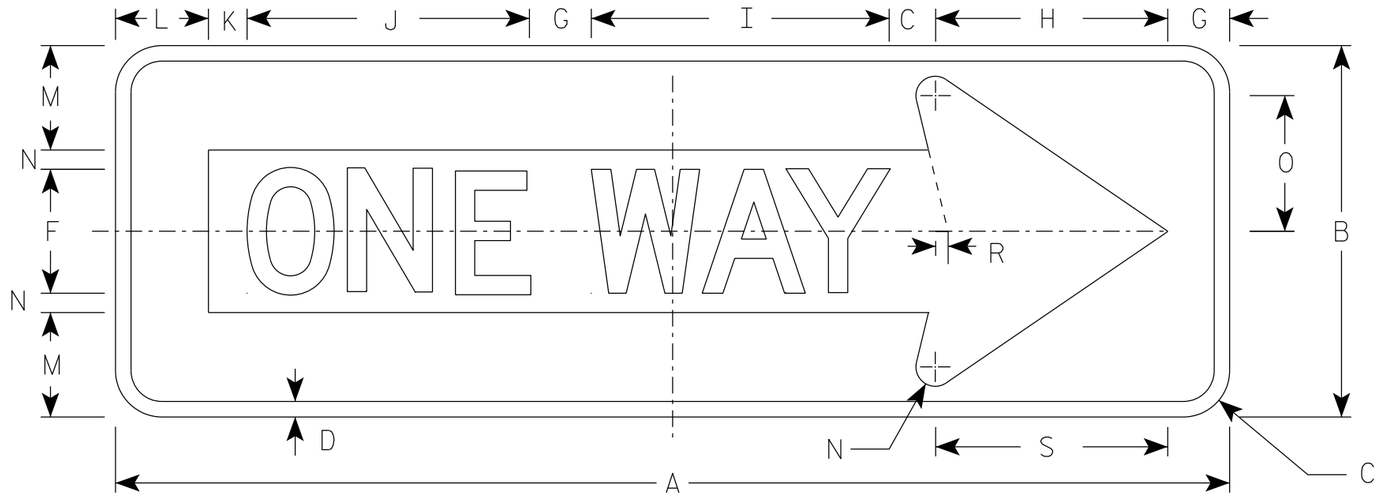
STANDARD SIGN
R4-7 & R4-8

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch for State Traffic Engineer

DATE 8/17/23 PLATE NO. R4-7.9

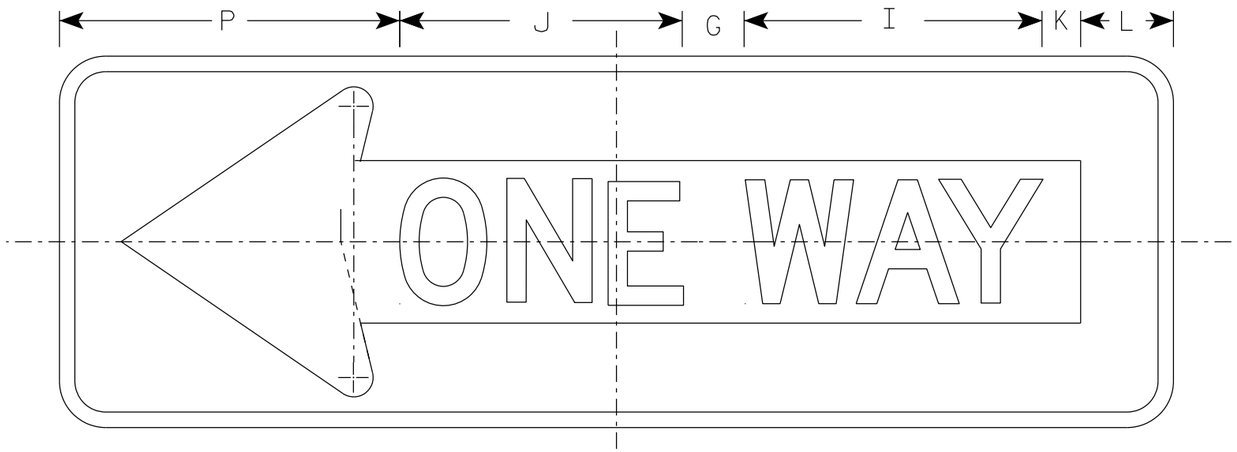
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 378 | E



R6-1R

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - Black
   Message - Black Legend & White Arrow & Border
3. Message Series - D



R6-1L

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	12	1 ½	½		4	2	7 ½	9 ⅝	9 ⅛	1 ¼	3	3 ⅜	⅝	4 ⅜	11		⅜	7 ½								3.0
2M	54	18	1 ½	¾		6	3	11 ¼	13 ⅝	14 ½	1 ⅞	4 ½	5	1	6 ½	16 ½		⅝	11 ¼								6.75
3	54	18	1 ½	¾		6	3	11 ¼	13 ⅝	14 ½	1 ⅞	4 ½	5	1	6 ½	16 ½		⅝	11 ¼								6.75
4	54	18	1 ½	¾		6	3	11 ¼	13 ⅝	14 ½	1 ⅞	4 ½	5	1	6 ½	16 ½		⅝	11 ¼								6.75
5																											

STANDARD SIGN
R6-1 L&R

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

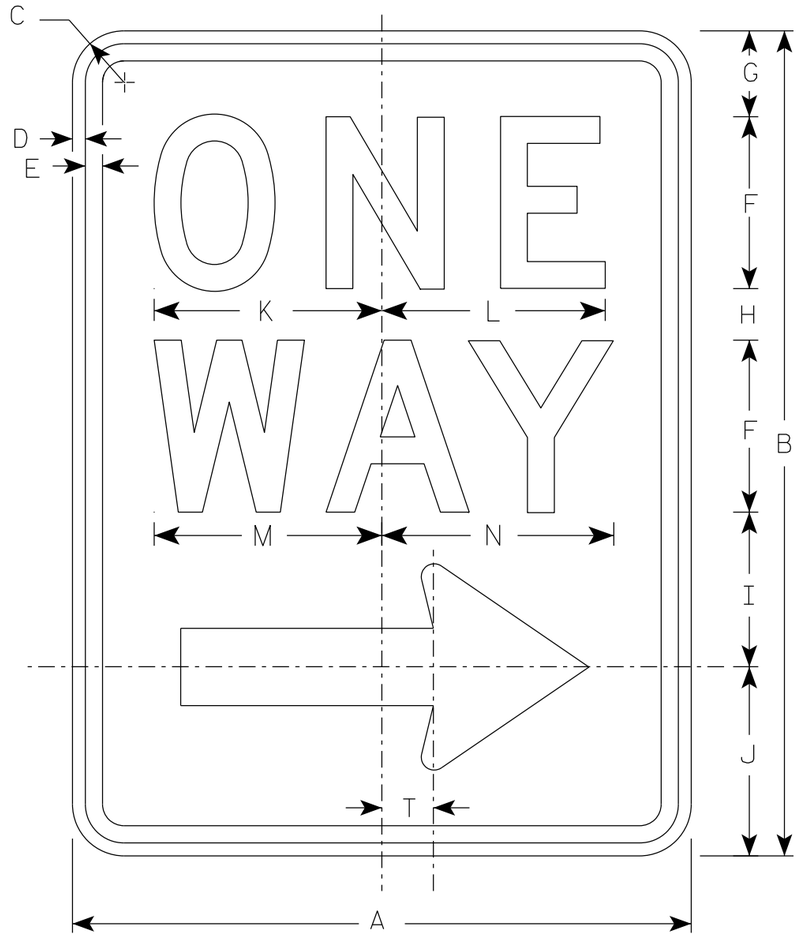
DATE 8/30/23 PLATE NO. R6-1.4

PROJECT NO:

SHEET NO: 379 E

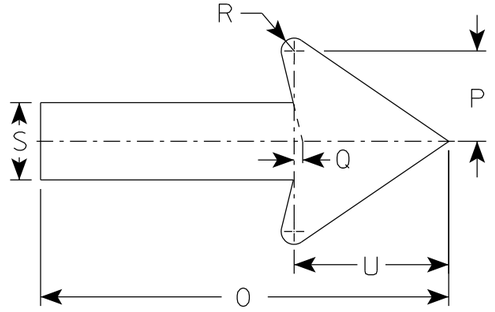
NOTES

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																										

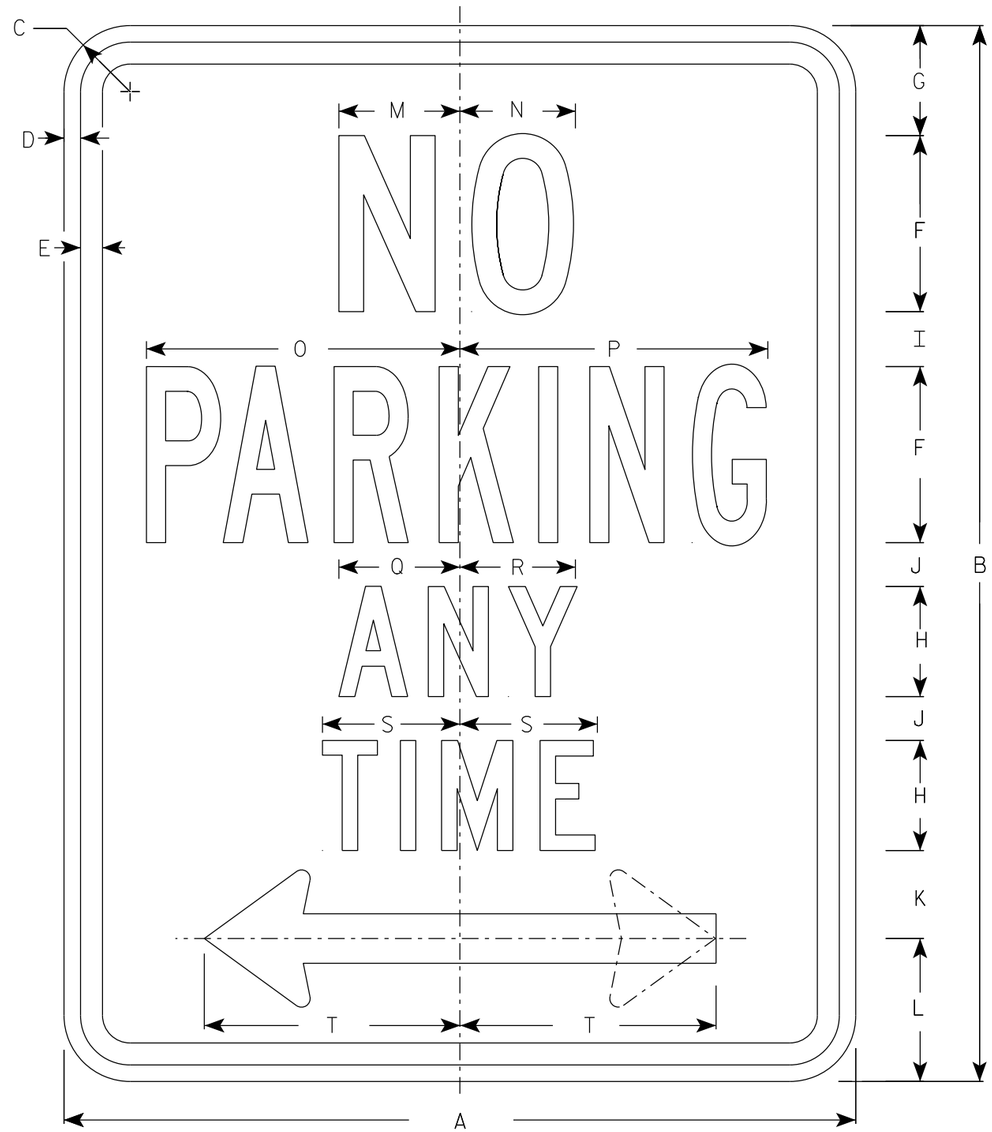
STANDARD SIGN
R6-2 R&L

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: 380 | E

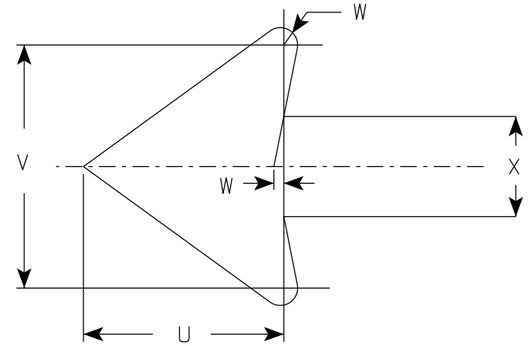


R7-1

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Red
3. Message Series - See Note 4
4. Lines 1, 3 and 4 are series C, line 2 is series B.
5. R7-1D (double arrow)
   R7-1L (left arrow)
   R7-1R (right arrow)

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	12	18	1 ½	⅜	⅜	3	1 ⅞	2	⅞	⅝	1 ½	2 ½	2	2	4 ⅞	4 ⅞	2 ¼	2 ⅛	2 ½	3 ⅞	1 ½	1 ¾	⅛	¾			1.5
2S	18	24	1 ½	⅜	½	4	2 ½	2 ½	1 ¼	1	2	3 ¼	2 ¾	2 ⅝	7 ⅛	7	2 ¾	2 ⅝	3 ⅛	5 ⅞	2 ¼	2 ⅝	¼	1 ⅛			3.0
2M	24	30	1 ½	⅜	½	5	3	3	2	1 ¼	2 ½	4	3 ¼	3 ⅜	9 ¼	9 ¼	3 ¼	3 ¼	3 ¾	7 ¾	3	3 ½	¼	1 ½			5.0
3	24	30	1 ½	⅜	½	5	3	3	2	1 ¼	2 ½	4	3 ¼	3 ⅜	9 ¼	9 ¼	3 ¼	3 ¼	3 ¾	7 ¾	3	3 ½	¼	1 ½			5.0
4																											
5																											

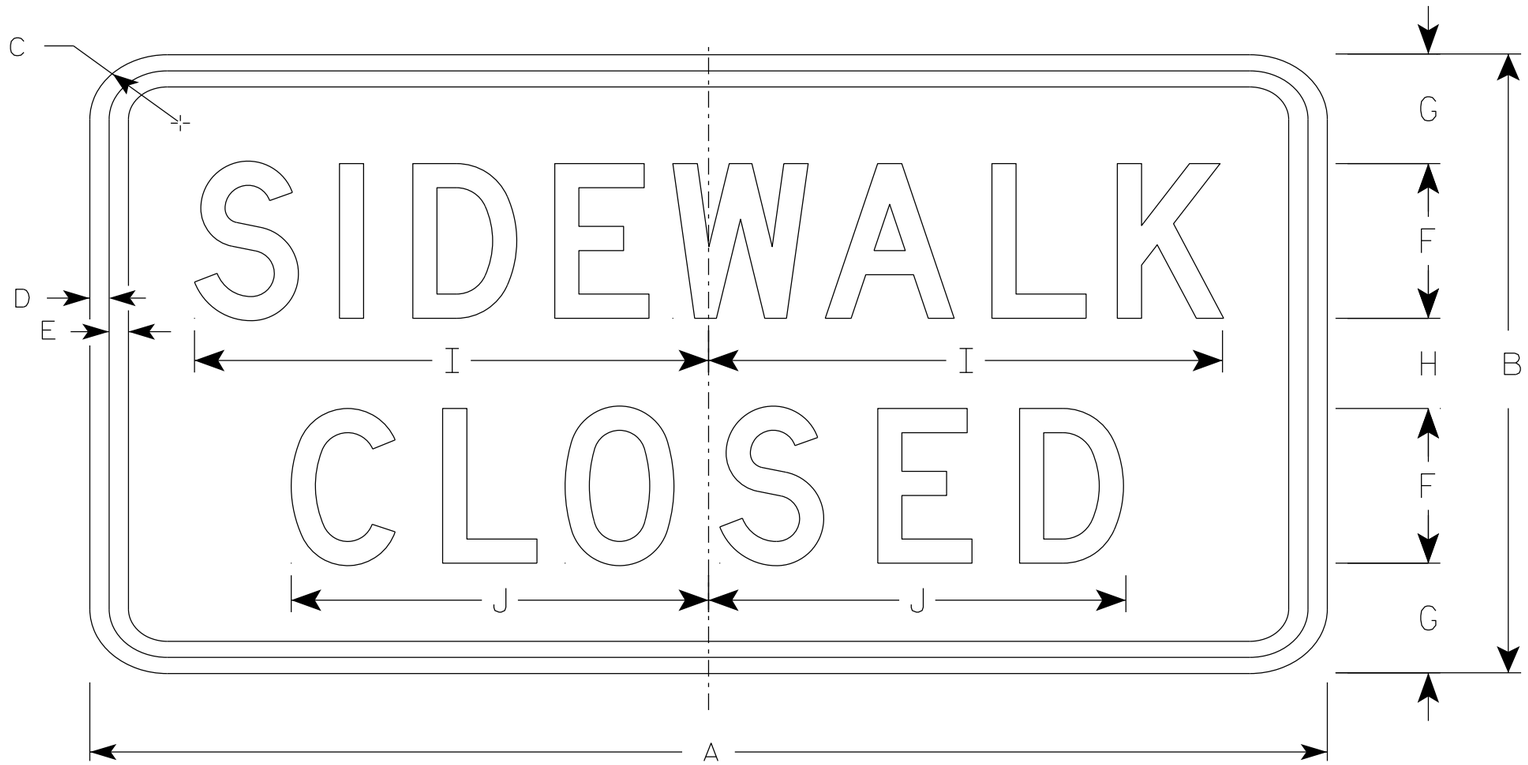
STANDARD SIGN
R7-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 10/26/23 PLATE NO. R7-1.11

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 381	E



R9-9

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - C
4. Use Size 2 for Sidewalks. Use Size 3 for Paths and Trails.

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	½	½	3	2 ⅛	1 ¾	10	8 ⅛																	2.0
2M	24	12	1 ½	½	½	3	2 ⅛	1 ¾	10	8 ⅛																	2.0
3	30	18	1 ½	½	½	4	3 ½	3	12 ½	10 ¼																	3.75
4																											
5																											

STANDARD SIGN
R9-9

WISCONSIN DEPT OF TRANSPORTATION

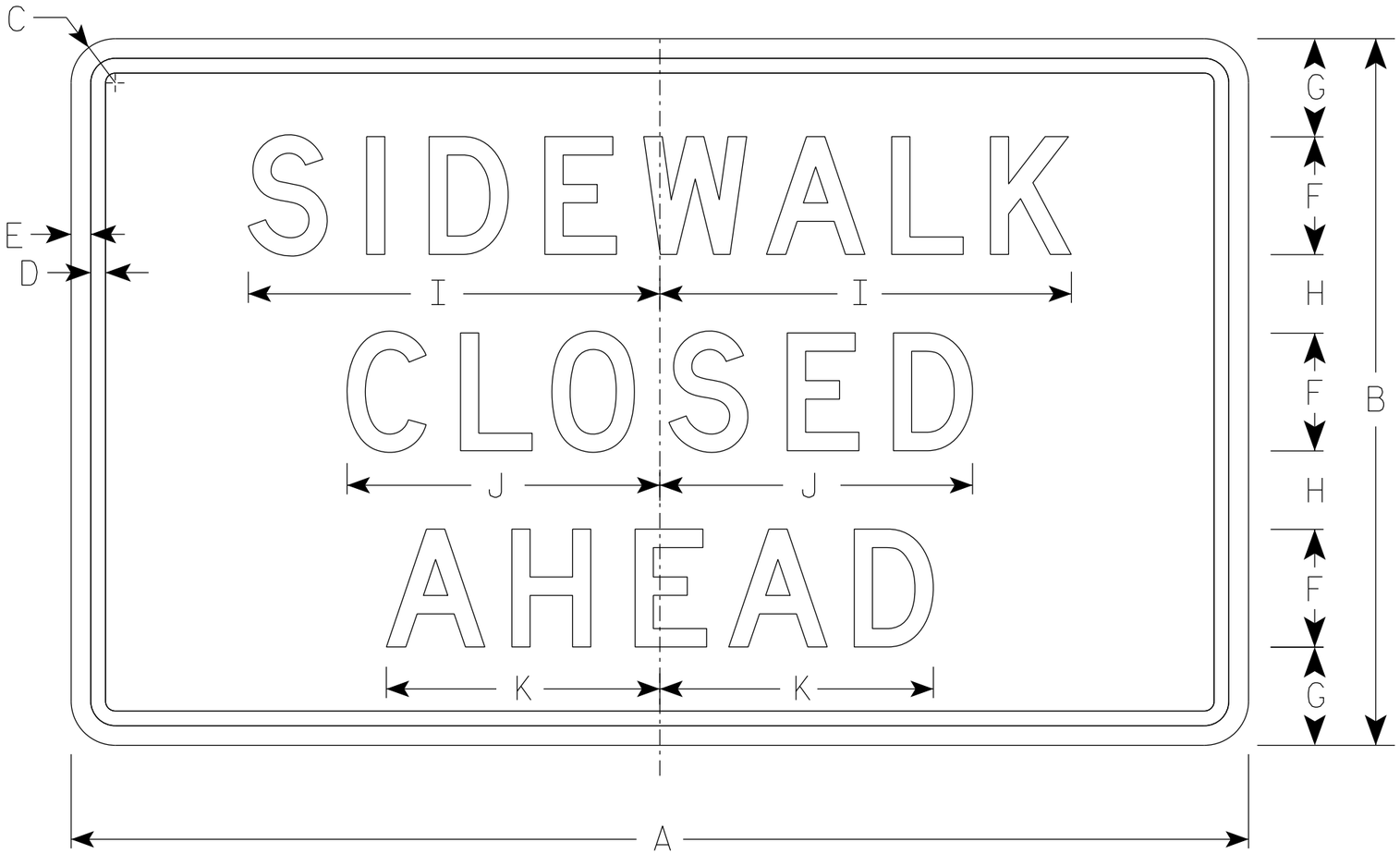
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 1/24/24 PLATE NO. R9-9.7

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 382 | E

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - D



R9-9A

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	18	1 ½	⅜	½	3	2 ½	2	10 ½	8	7																3.75
2M	30	18	1 ½	⅜	½	3	2 ½	2	10 ½	8	7																3.75
3																											
4																											
5																											

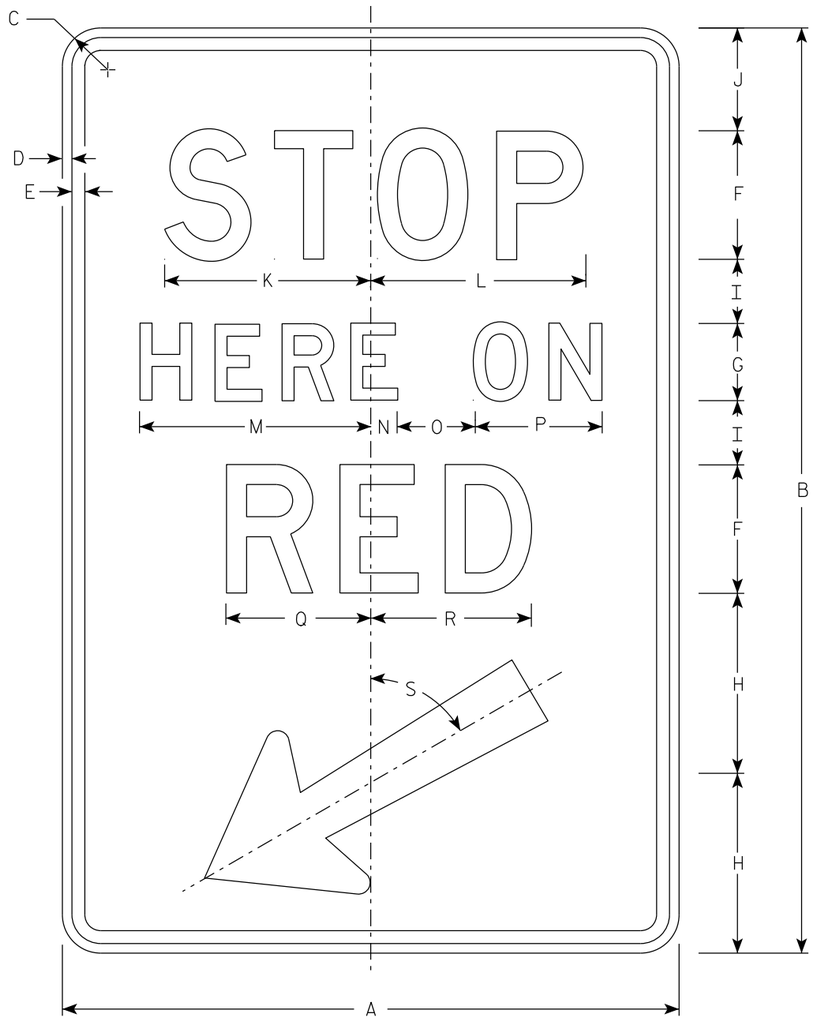
STANDARD SIGN
R9-9A

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 1/24/24 PLATE NO. R9-9A.2

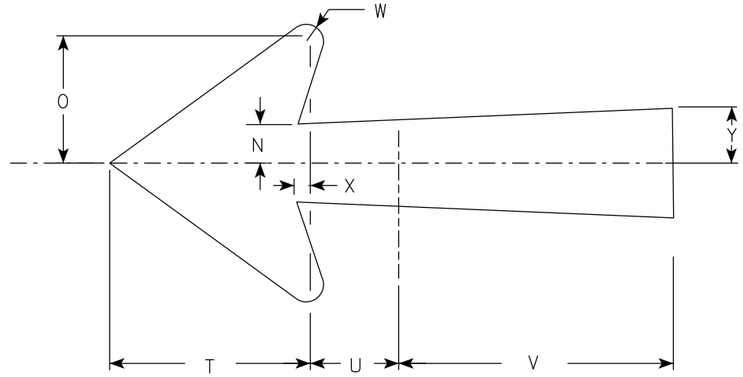
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 383 | E



R10-6

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - D



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	36	1 1/2	3/8	1/2	5	3	7	2 1/2	4	8	8 3/8	9	1	3	5	5 5/8	6 1/4	60°	5 1/4	2 1/4	7 1/8	1/2	3/8	1 3/8		6.0
2M	24	36	1 1/2	3/8	1/2	5	3	7	2 1/2	4	8	8 3/8	9	1	3	5	5 5/8	6 1/4	60°	5 1/4	2 1/4	7 1/8	1/2	3/8	1 3/8		6.0
3																											
4																											
5																											

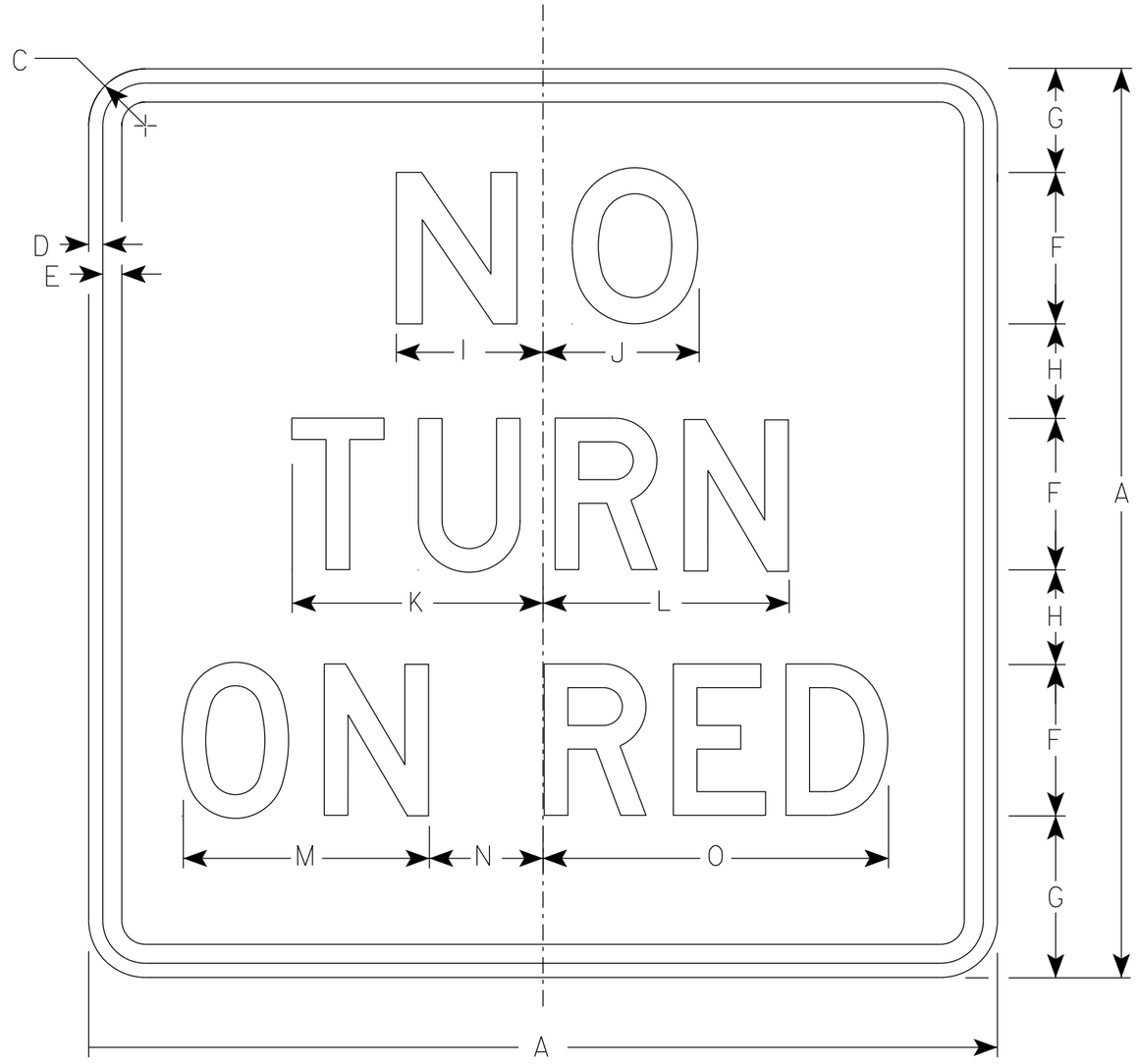
STANDARD SIGN
R10-6

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 1/25/24 PLATE NO. R10-6.7

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 384	E



R10-11B

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - Line 1 is Series E.
   Lines 2 and 3 are 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	18		1 1/2	3/8	3/8	3	2 3/4	1 3/4	3	3 1/8	5	4 7/8	5 1/4	1 7/8	7 1/8												2.25
2S	24		1 1/2	3/8	1/2	4	3 1/2	2 1/2	3 7/8	4 1/8	6 5/8	6 1/2	6 1/2	3	9 1/8												4.0
2M	24		1 1/2	3/8	1/2	4	3 1/2	2 1/2	3 7/8	4 1/8	6 5/8	6 1/2	6 1/2	3	9 1/8												4.0
3	30		1 7/8	1/2	5/8	5	4 1/2	3	4 7/8	5 1/4	8 1/4	8 1/8	7 3/4	4 1/8	11 7/8												6.25
4																											
5																											

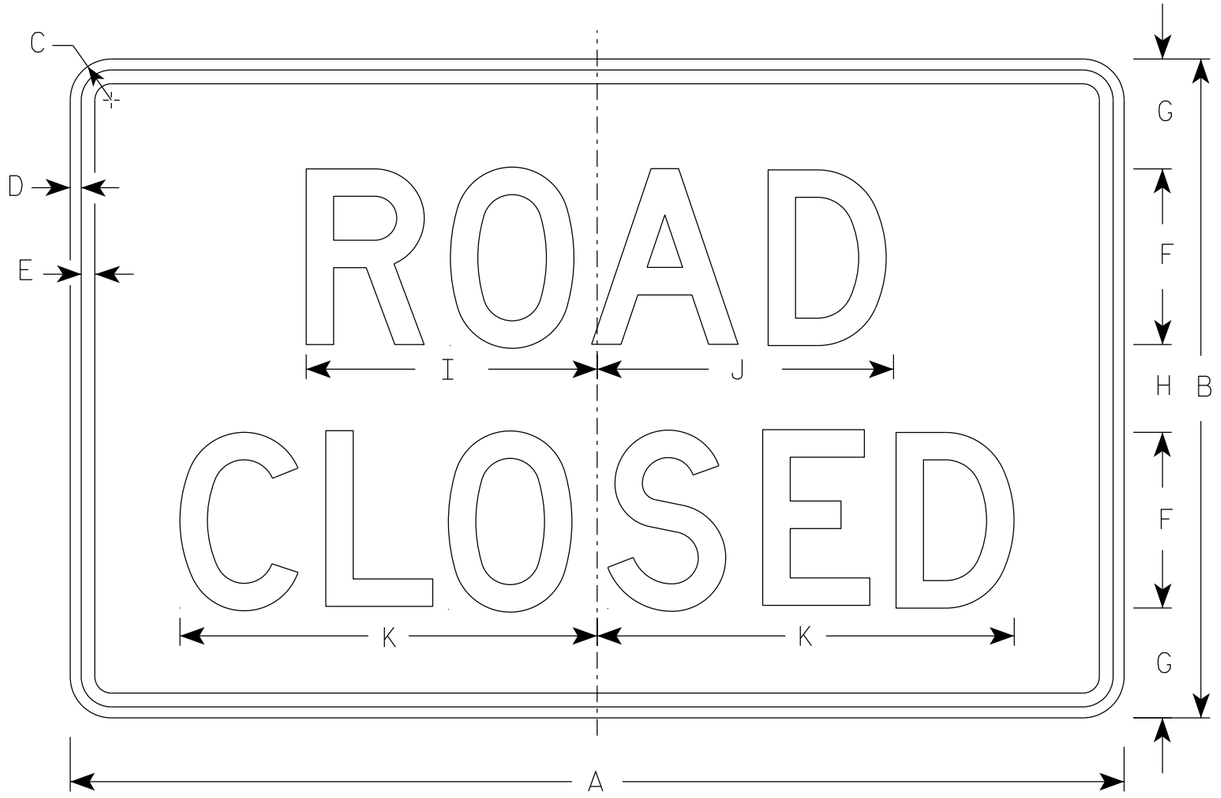
STANDARD SIGN
R10-11B

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 1/31/24 PLATE NO. R10-11B.5

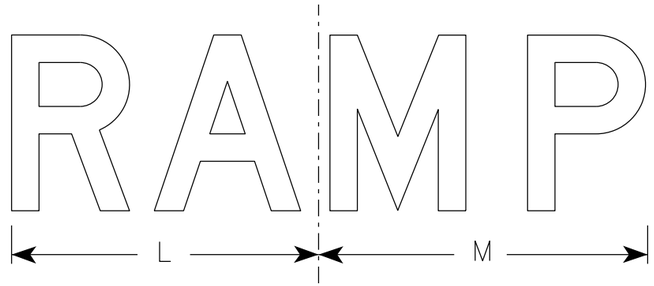
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 385 E



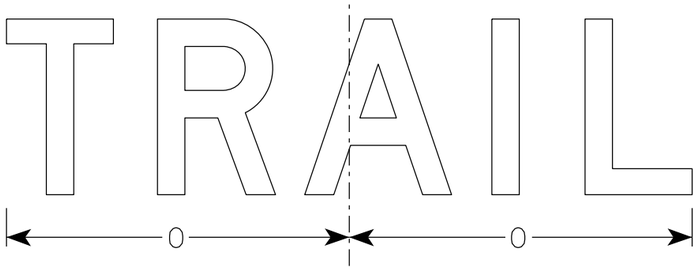
R11-2

NOTES

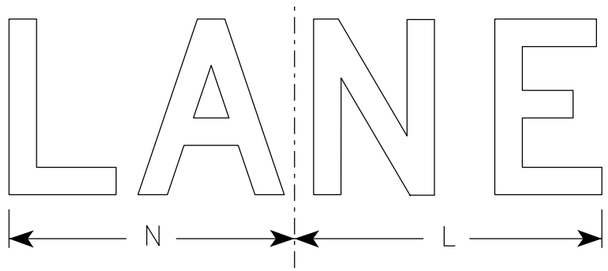
1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Modify the 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

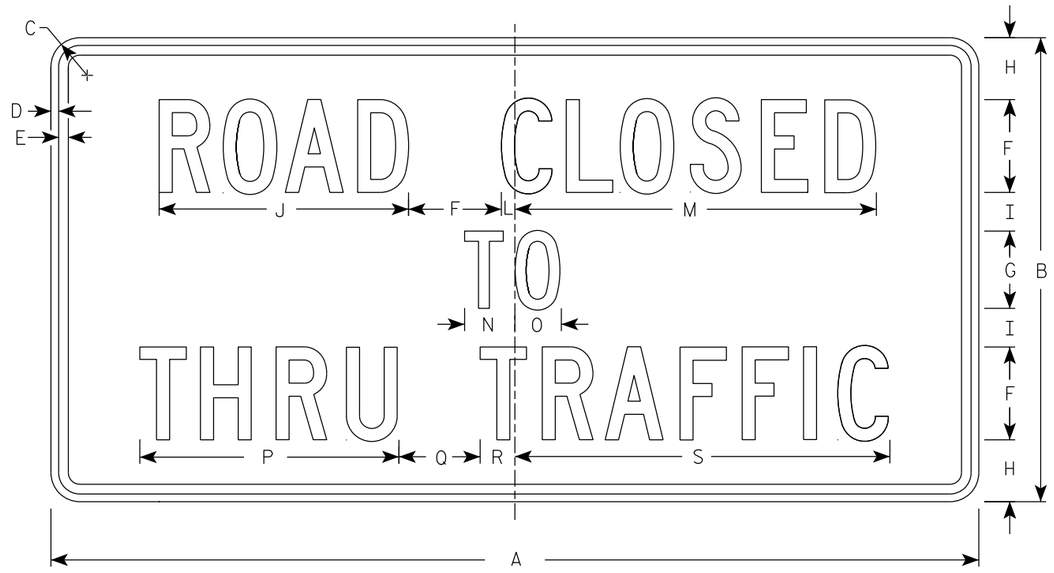
WISCONSIN DEPT OF TRANSPORTATION

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



R11-4

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.

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	60	30	1 7/8	1/2	5/8	6	5	4	2 1/2	16 1/8		7/8	23 3/8	3 1/4	3	16 3/4	5 1/4	2 1/4	24 1/4								12.5
2M	60	30	1 7/8	1/2	5/8	6	5	4	2 1/2	16 1/8		7/8	23 3/8	3 1/4	3	16 3/4	5 1/4	2 1/4	24 1/4								12.5
3																											
4																											
5																											

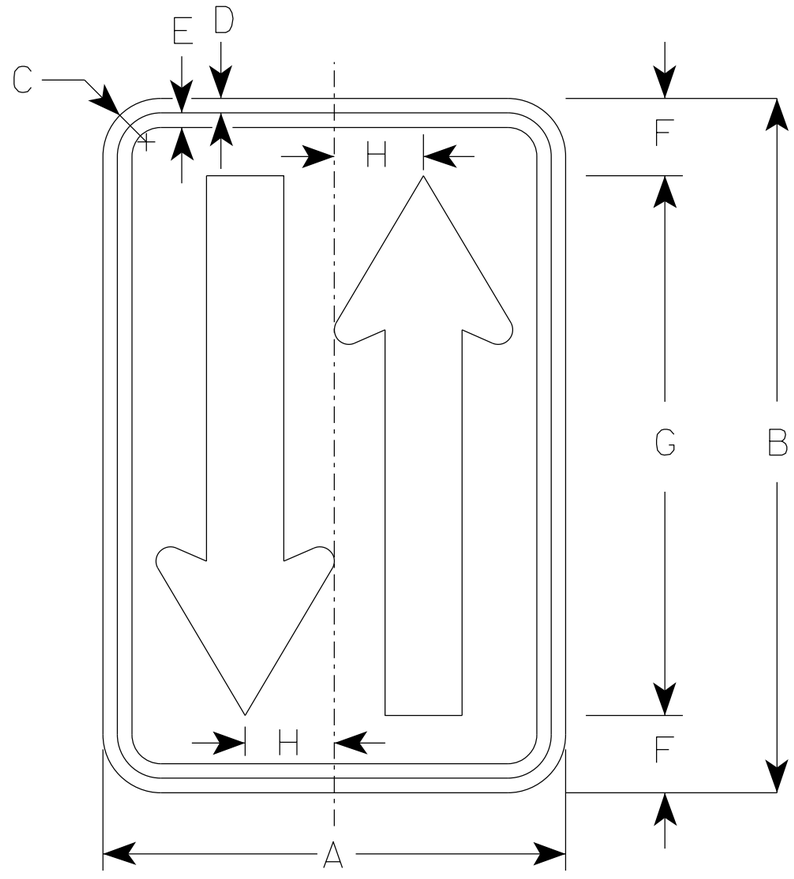
STANDARD SIGN
R11 - 4

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/5/24 PLATE NO. R11-4.4

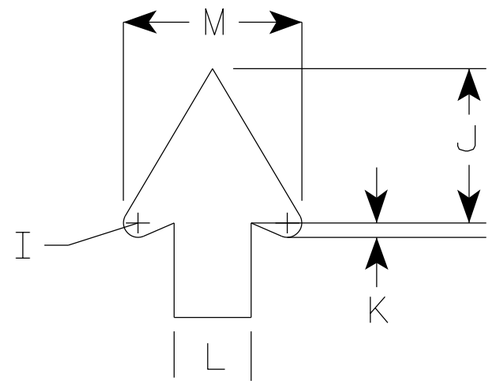
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 387 | E



W6-4

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Orange
   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	Area sq. ft.
1																											
2S	12	18	1 1/2	3/8	3/8	2	14	2 1/4	3/8	4	1/8	2	4 5/8														1.5
2M	12	18	1 1/2	3/8	3/8	2	14	2 1/4	3/8	4	1/8	2	4 5/8														1.5
3																											
4																											
5																											

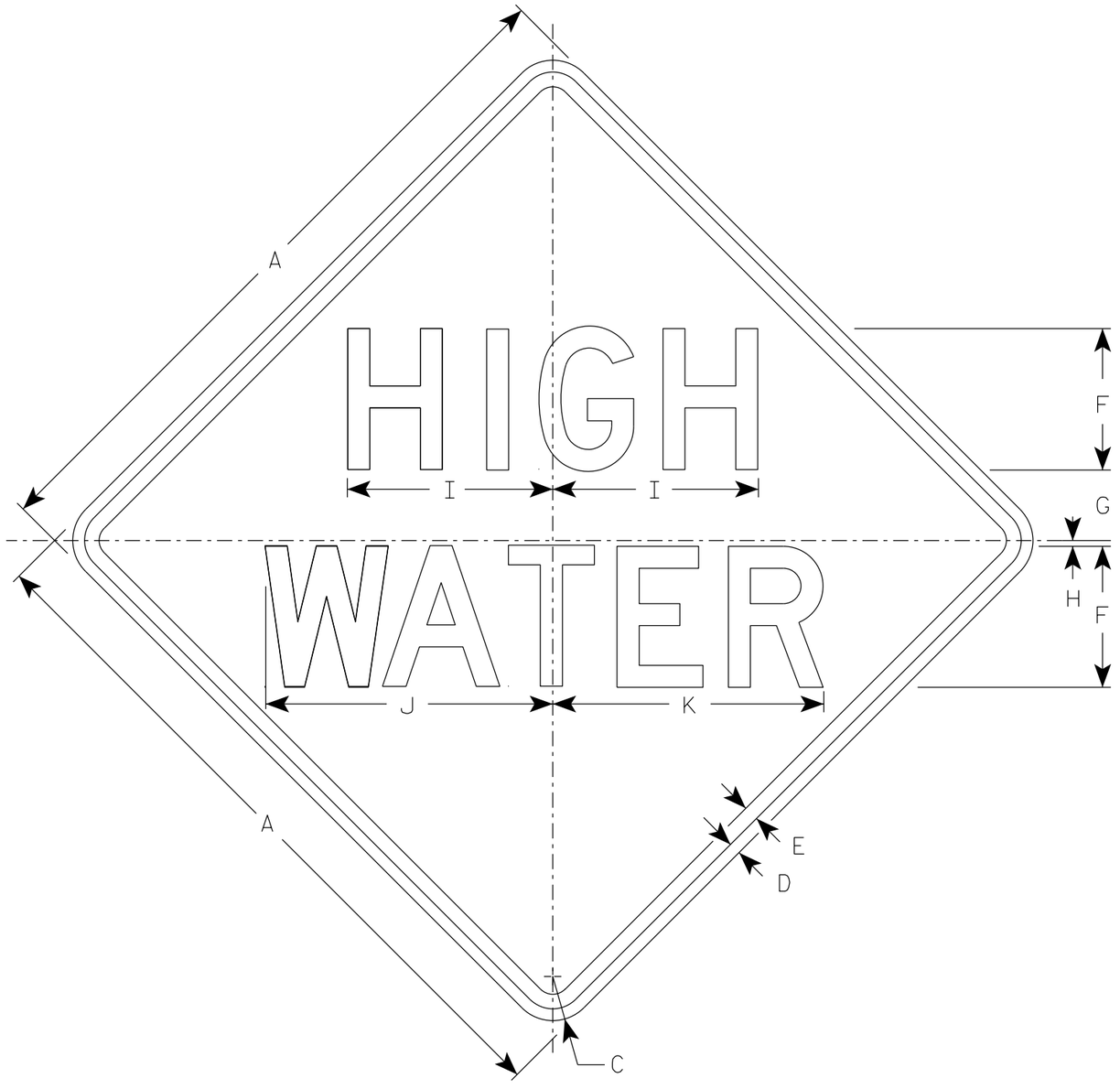
STANDARD SIGN
W6-4

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 9/6/2023 PLATE NO. W6-4.2

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 388	E



W8-58

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Yellow
   Message - Black
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	24		1 1/2	3/8	1/2	5	2 1/4	1/4	7 1/4	10 1/8	9 5/8																4.0
2S	30		1 7/8	1/2	5/8	6	3	1/4	8 3/4	12 1/4	11 1/2																6.25
2M	36		2 1/4	5/8	3/4	7	3 1/2	3/8	10 1/4	14 1/4	13 1/2																9.0
3	36		2 1/4	5/8	3/4	7	3 1/2	3/8	10 1/4	14 1/4	13 1/2																9.0
4	48		3	3/4	1	10	4 5/8	1/2	14 5/8	20 1/8	19 3/8																16.0
5																											

STANDARD SIGN
W8-58

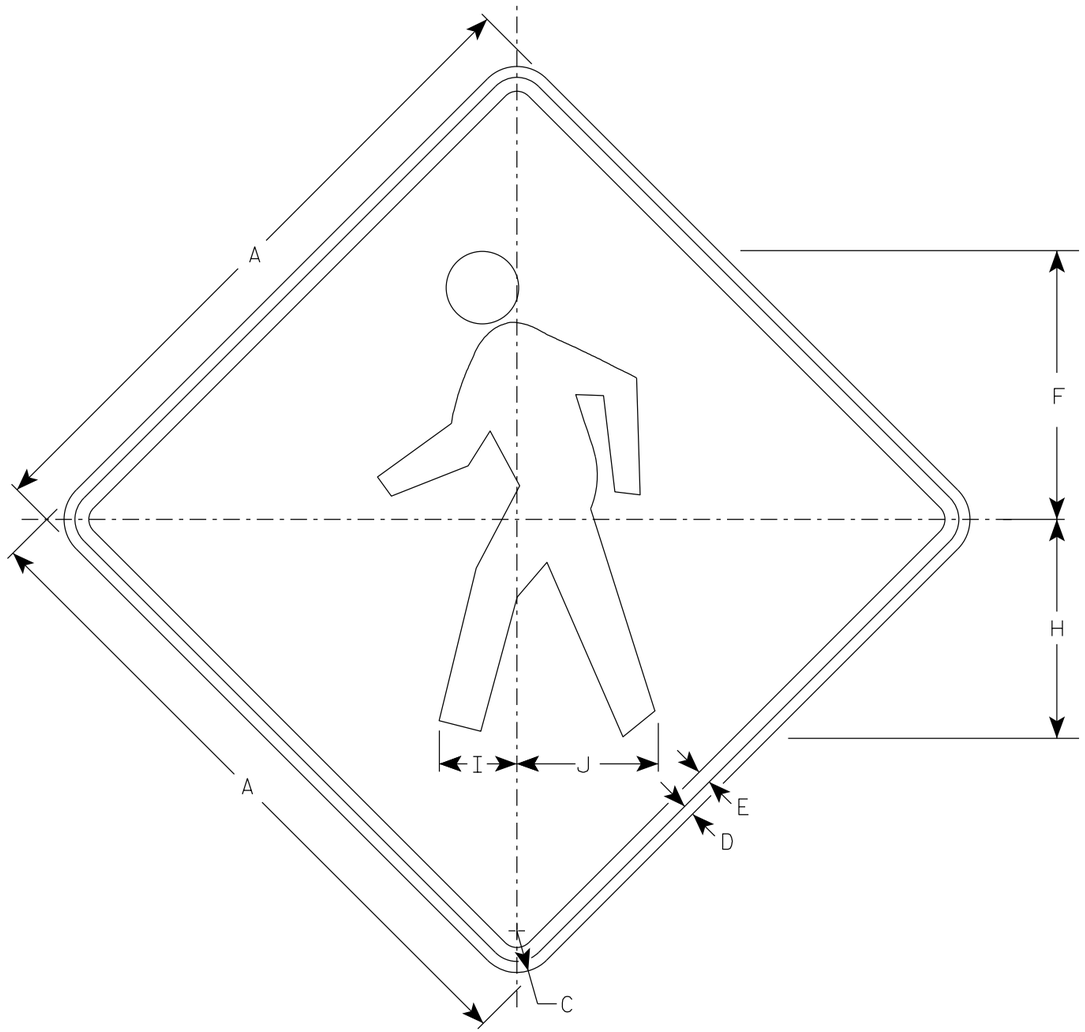
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
For State Traffic Engineer

DATE 11/7/2023 PLATE NO. W8-58.9

PROJECT NO: | HWY: | COUNTY: | SHEET NO: E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\W858.dgn PLOT DATE : 7-NOV 2023 3:37 PLOT BY : dotc4c PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42



W11-2

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	24		1 1/2	3/8	1/2	9 3/4		7 7/8	2 7/8	5 1/8																	4.0
2S	30		1 7/8	1/2	5/8	12 1/8		9 7/8	3 1/2	6 3/8																	6.25
2M	36		2 1/4	5/8	3/4	14 1/2		11 7/8	4 1/4	7 5/8																	9.0
3	36		2 1/4	5/8	3/4	14 1/2		11 7/8	4 1/4	7 5/8																	9.0
4	48		3	3/4	1	19 3/8		15 3/4	5 5/8	10 1/4																	16.0
5																											

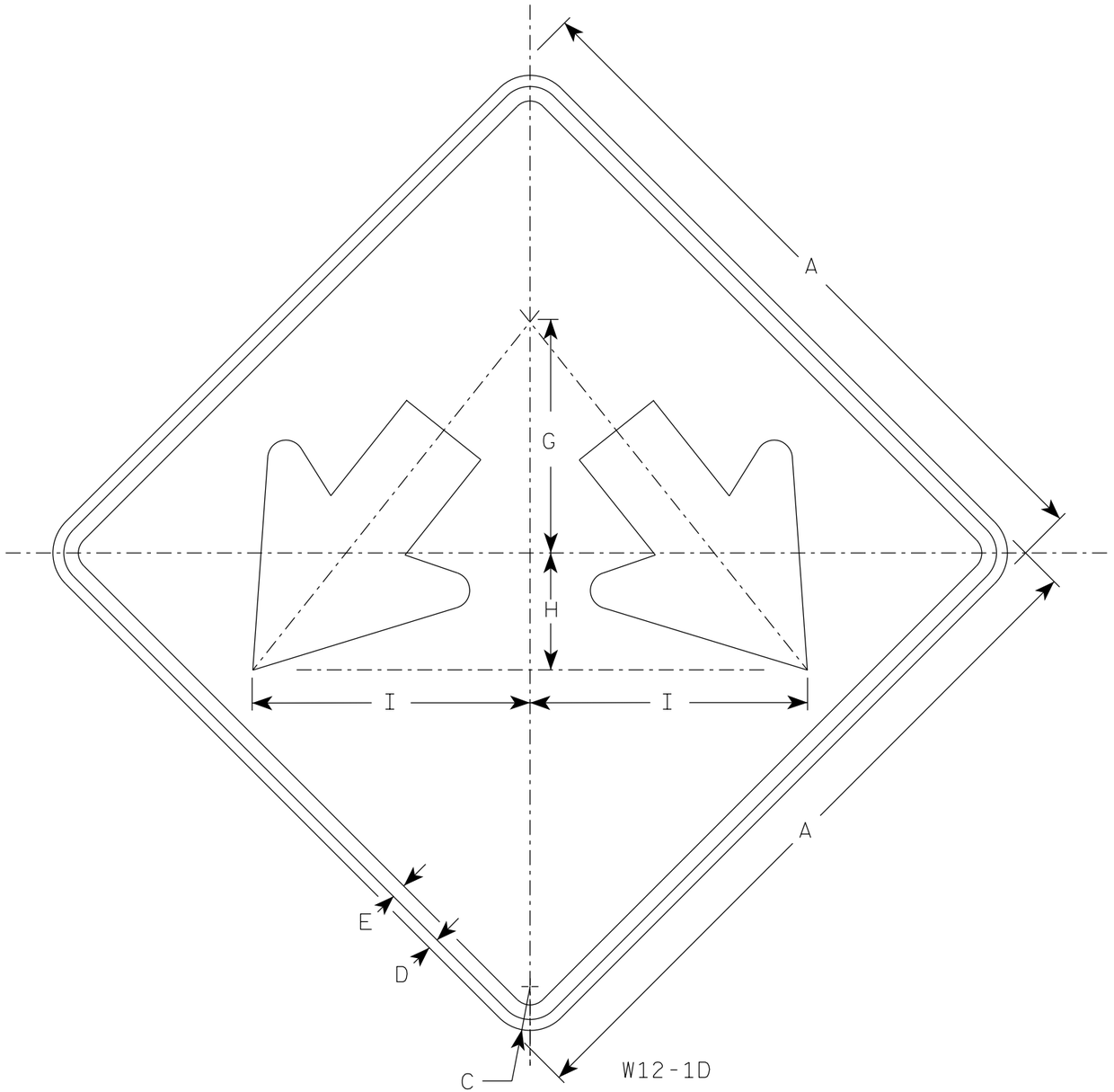
STANDARD SIGN
W11-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
For State Traffic Engineer

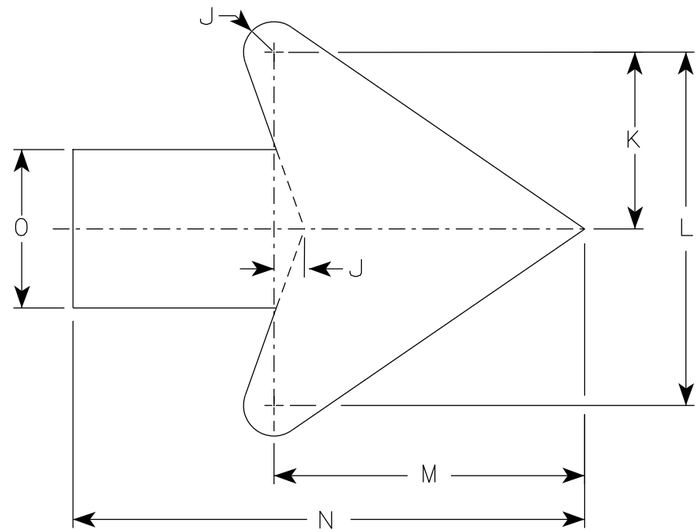
DATE 6/15/2023 PLATE NO. W11-2.9

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 390 E



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	Areg 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

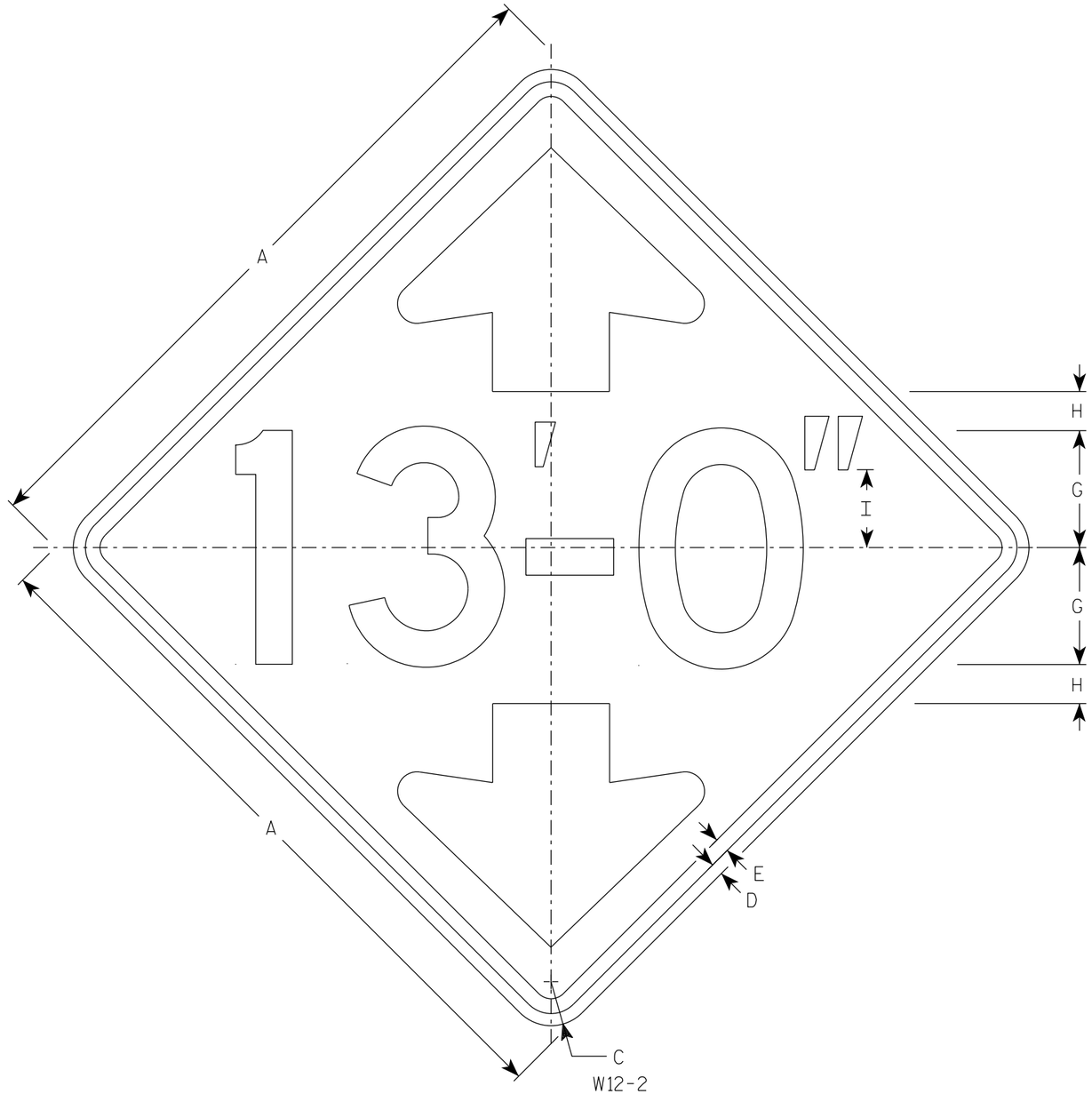
STANDARD SIGN
W12-1D

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

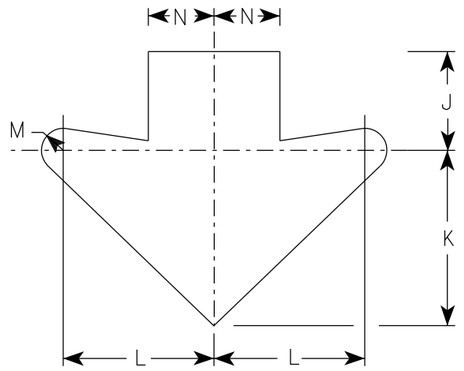
DATE 11/30/2023 PLATE NO. W12-1D.16

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 391	E

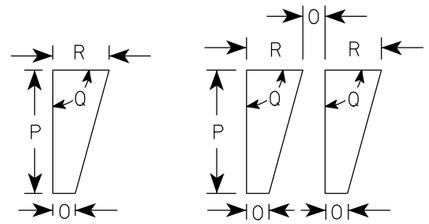


NOTES

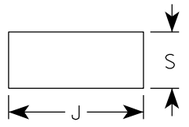
1. Sign is Type II - Type F Reflective
2. Color:
   Background - Yellow
   Message - Black
3. Message Series - D
4. Substitute appropriate numerals and optically adjust spacing of numerals, hyphen, foot & inch marks to achieve proper balance.



Arrow Detail



Foot Mark & Inch Mark Detail



Hyphen 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		5	1 5/8	3 3/8	3 3/4	6 5/8	5 3/4	3/4	2 1/2	1/2	2 1/4	90°	1	1 5/8								6.25
2S	36		2 1/4	5/8	3/4		6	2	4	4 1/2	8	6 7/8	1	3	1/2	2 3/4	90°	1 1/4	1 7/8								9.0
2M	36		2 1/4	5/8	3/4		6	2	4	4 1/2	8	6 7/8	1	3	1/2	2 3/4	90°	1 1/4	1 7/8								9.0
3	36		2 1/4	5/8	3/4		6	2	4	4 1/2	8	6 7/8	1	3	1/2	2 3/4	90°	1 1/4	1 7/8								9.0
4	36		2 1/4	5/8	3/4		6	2	4	4 1/2	8	6 7/8	1	3	1/2	2 3/4	90°	1 1/4	1 7/8								9.0
5	48		3	3/4	1		8	2 5/8	5 1/2	5 7/8	10 5/8	9 1/4	1 3/8	4	5/8	3 5/8	90°	1 5/8	2 1/2								16.0

STANDARD SIGN
W12-2

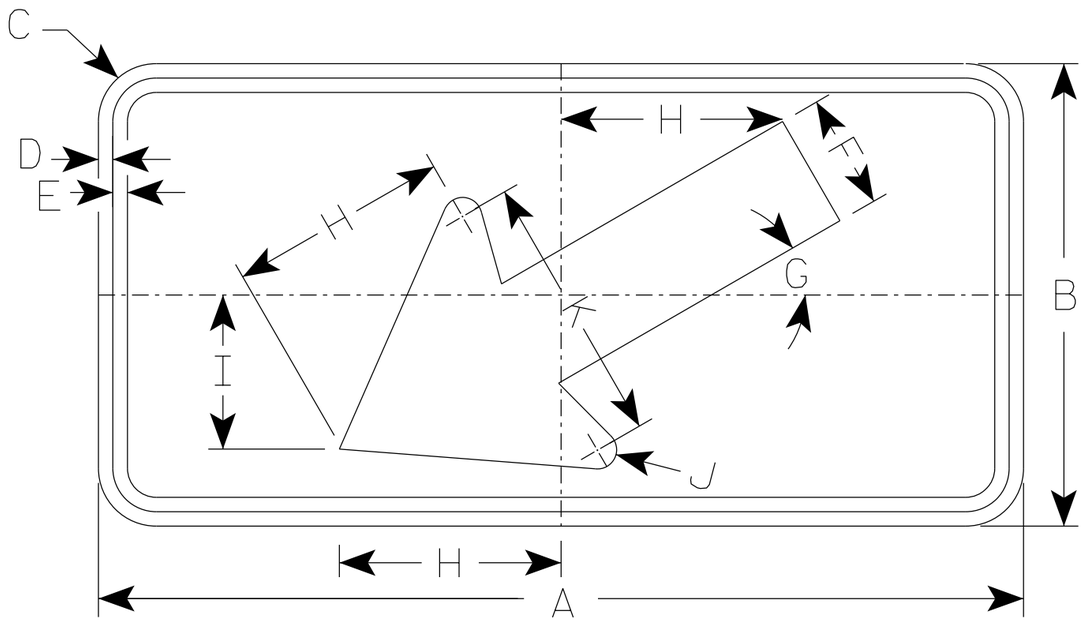
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/30/2023 PLATE NO. W12-2.11

PROJECT NO: | HWY: | COUNTY: | SHEET NO: E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\W122.dgn PLOT DATE : 30-NOV 2023 3:01 PLOT BY : dotc4c PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42



W16-7L

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Yellow
   Message - Black
3. W16-7R is the same as W16-7L except the arrow is reversed along the vertical centerline.

* For 36" x 36" Warning Signs, use 30" x 18" W16-7L signs.
* For 48" x 48" Warning Signs, use 48" x 24" W16-7L signs.

	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	3	30°	5 ¾	4	½	7																2.0
*	2M	30	18	1 ½	⅜	½	4 ½	30°	8 ½	6	⅝	10 ¼																3.75
*	3	30	18	1 ½	⅜	½	4 ½	30°	8 ½	6	⅝	10 ¼																3.75
*	4	48	24	1 ⅞	½	⅝	6	30°	11 ½	8	1	14																8.0
	5																											

STANDARD SIGN
W16-7

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

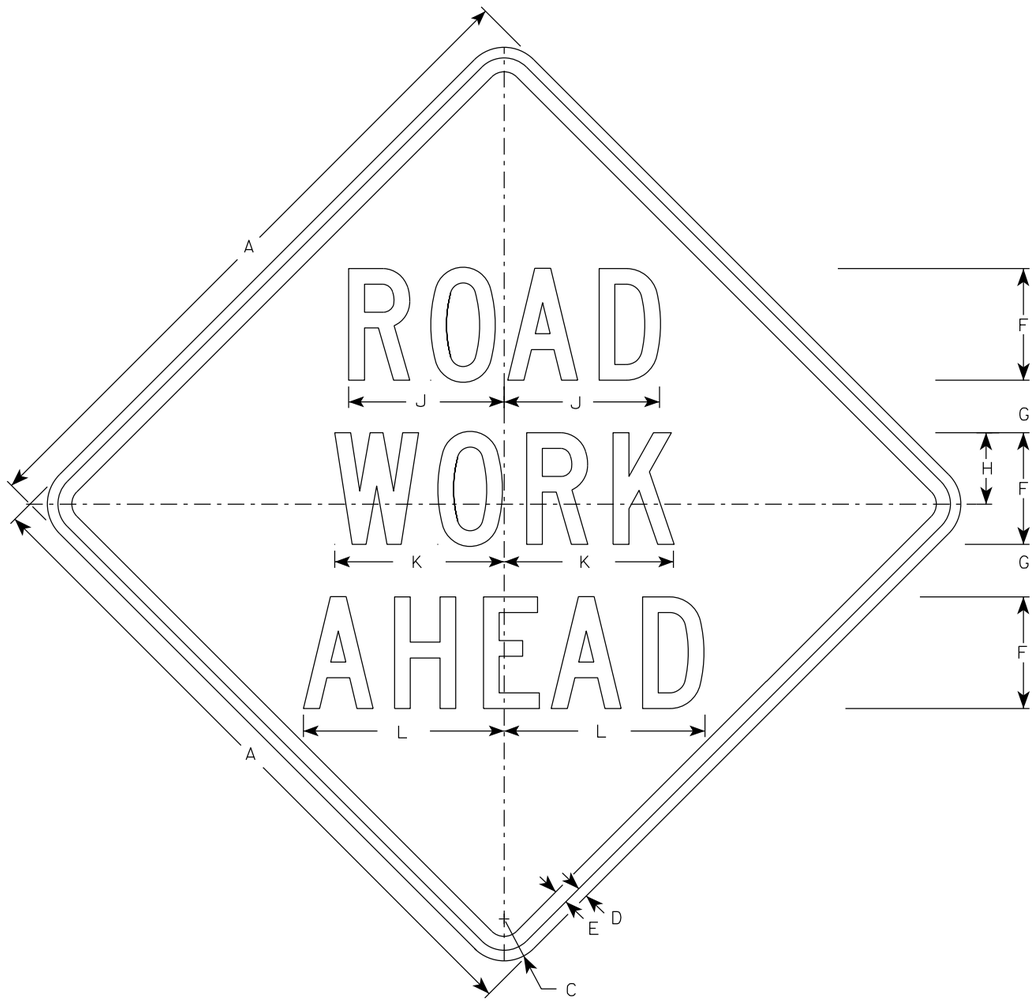
DATE 1/9/2024 PLATE NO. W16-7.9

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 393 E

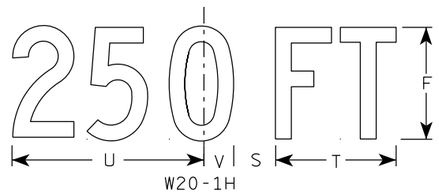
7

NOTES

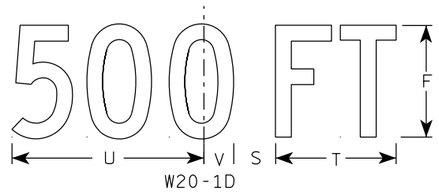
1. Sign is Type II - Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



W20-1A



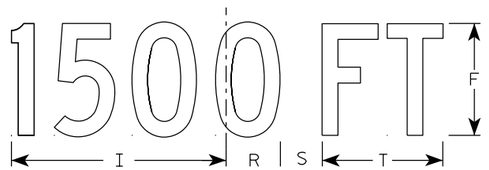
W20-1H



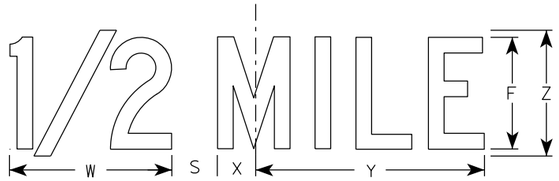
W20-1D



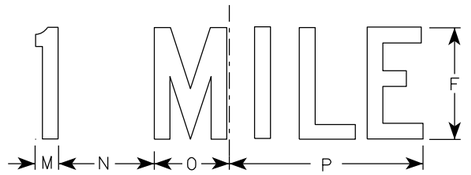
W20-1C



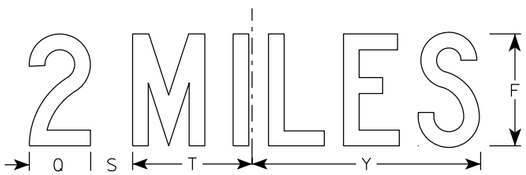
W20-1B



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

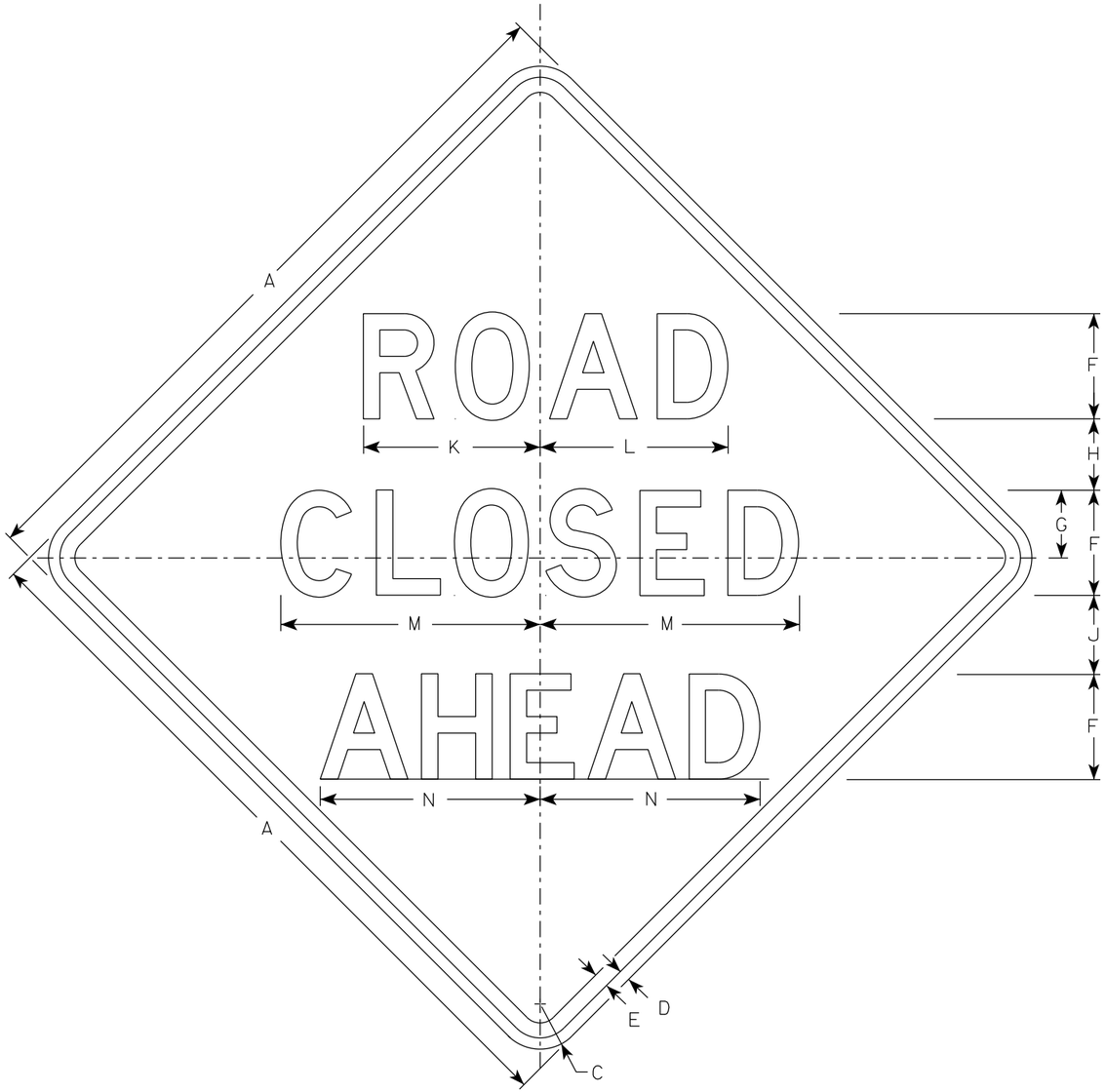
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

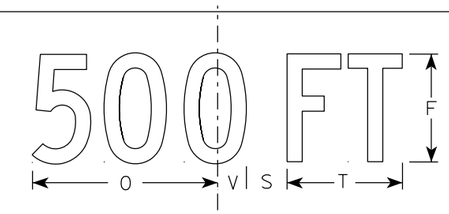
DATE 1/10/2024 PLATE NO. W20-1.12

PROJECT NO:

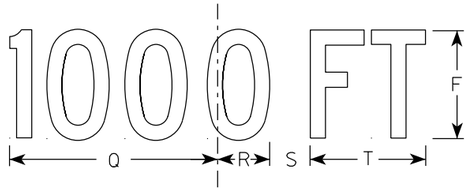
SHEET NO: 394 E



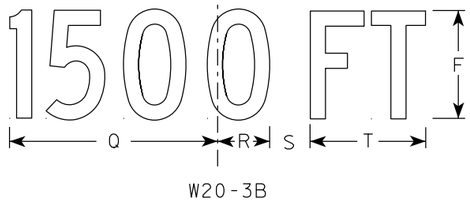
W20-3A



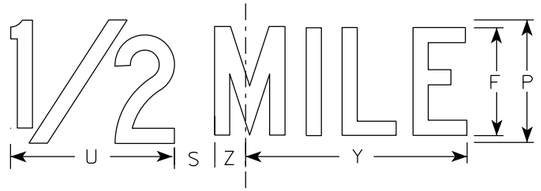
W20-3D



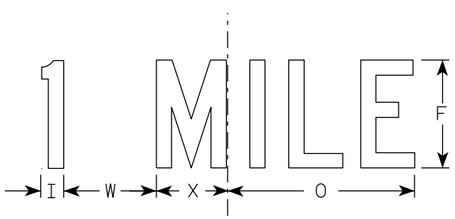
W20-3C



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

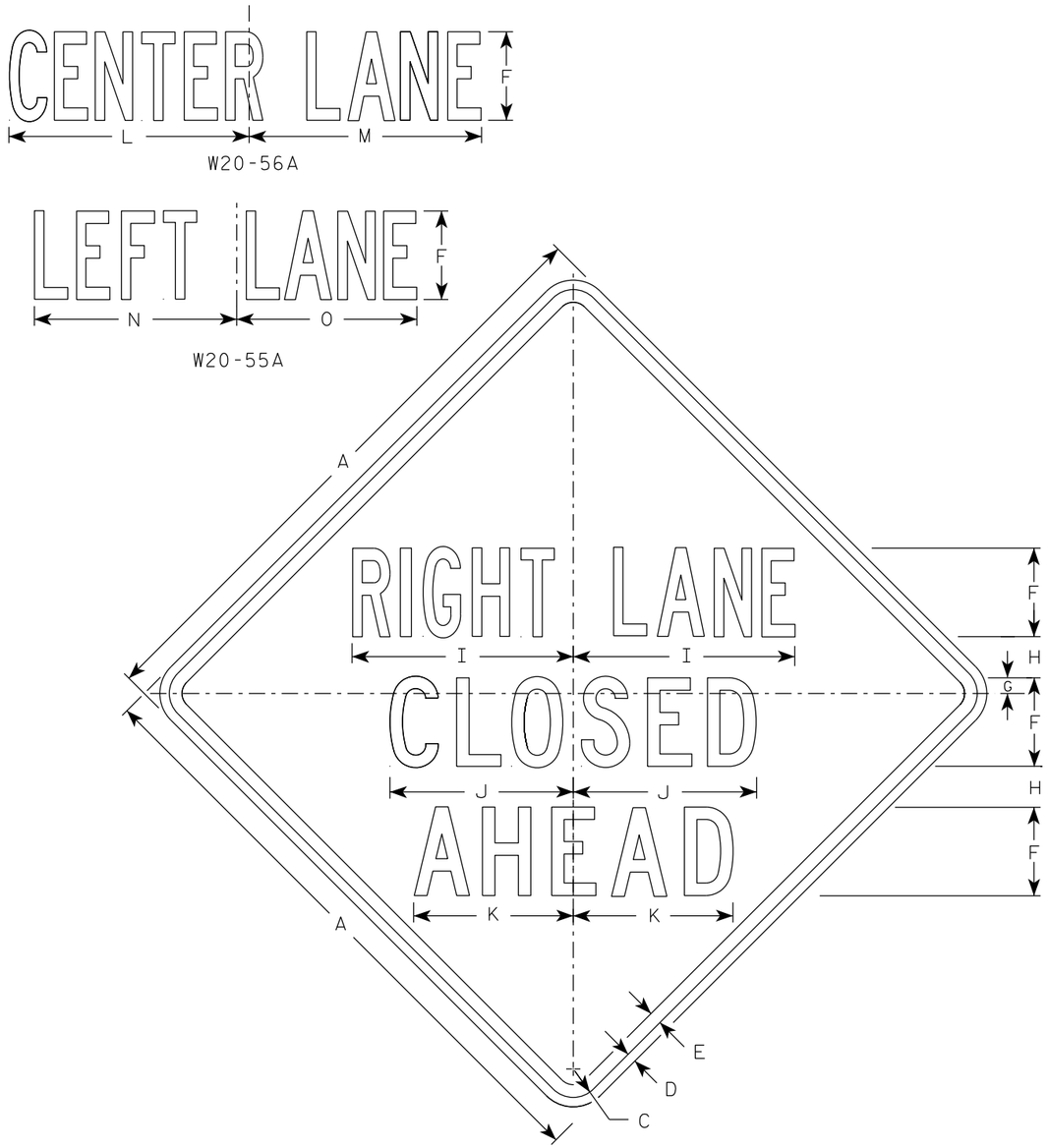
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 1/10/2024 PLATE NO. W20-3.8

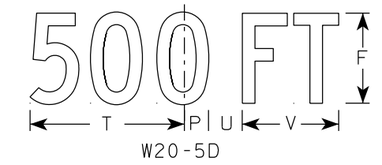
PROJECT NO: | HWY: | COUNTY: | SHEET NO: E

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

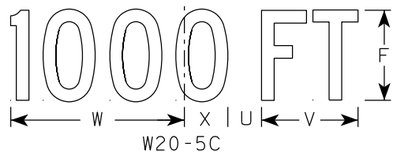
7



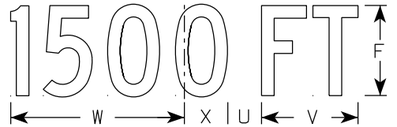
W20-5A



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

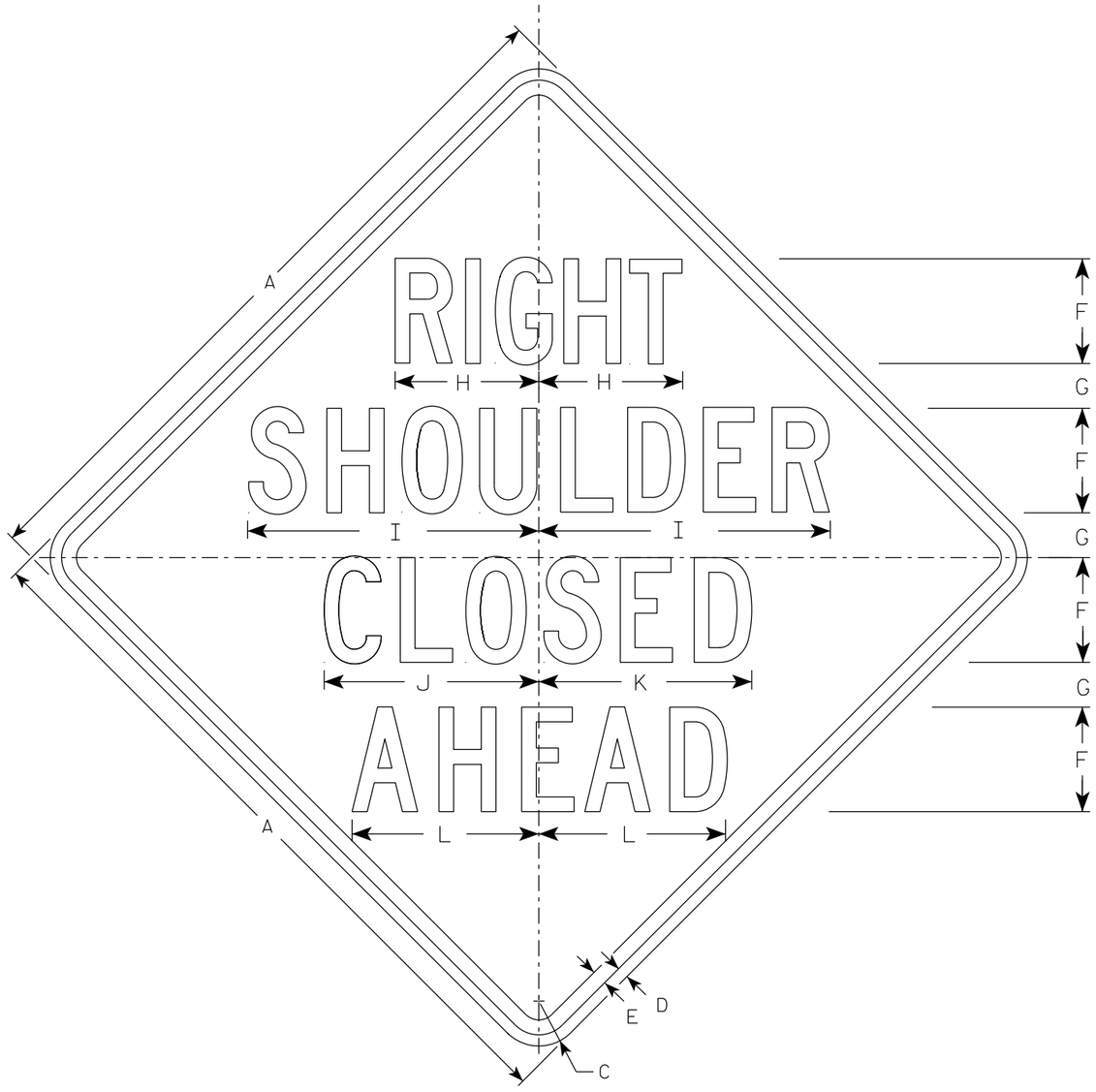
STANDARD SIGN
W20-5A, B, C, D, F & G

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/27/24 PLATE NO. W20-5.12

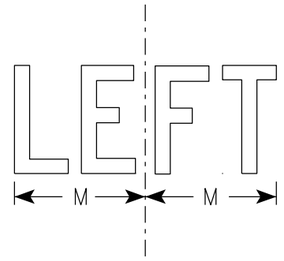
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 396	E



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

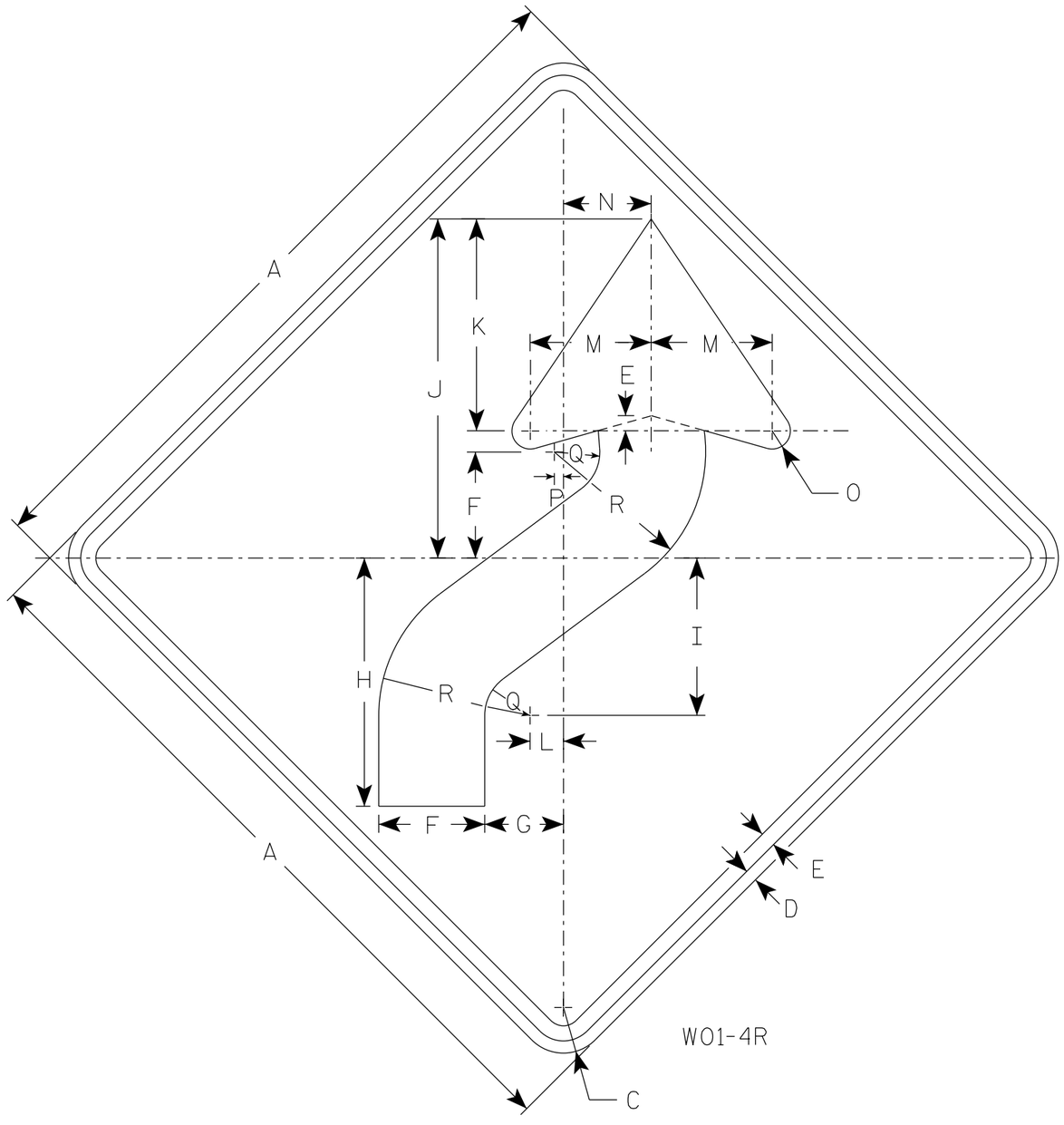
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 1/16/2024 PLATE NO. W21-5B.4

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 397 E

7



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

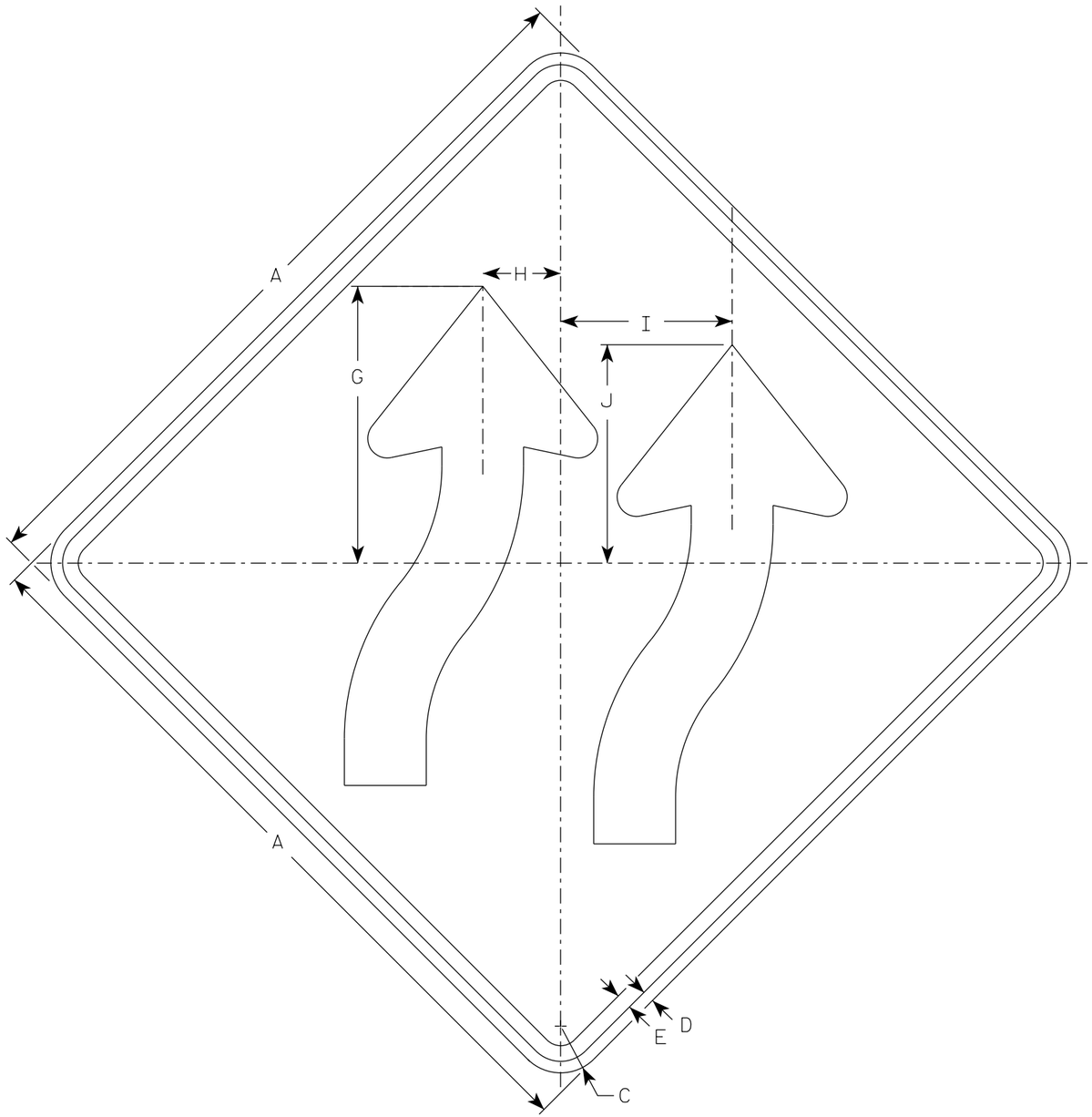
STANDARD SIGN
WO1-4

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
For State Traffic Engineer

DATE 1/24/2024 PLATE NO. WO1-4.2

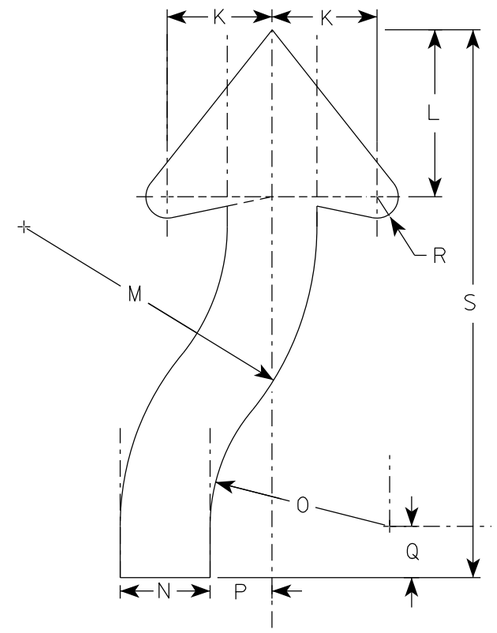
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 398 E



W01-4BR

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

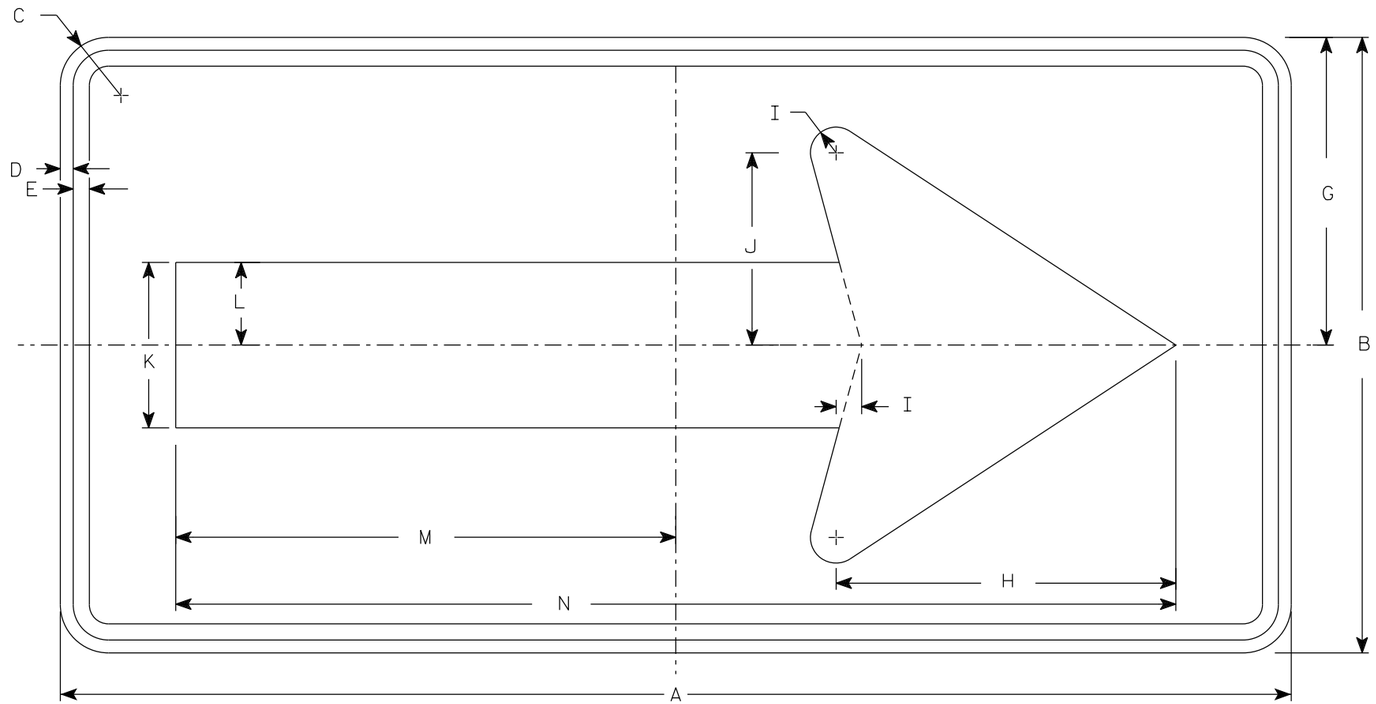
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 1/24/2024 PLATE NO. W01-4B.2

PROJECT NO:	HWY:	COUNTY:		SHEET NO: E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\W014B.dgn PLOT DATE : 29-JAN 2024 3:41 PLOT BY : dotc4c PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42



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

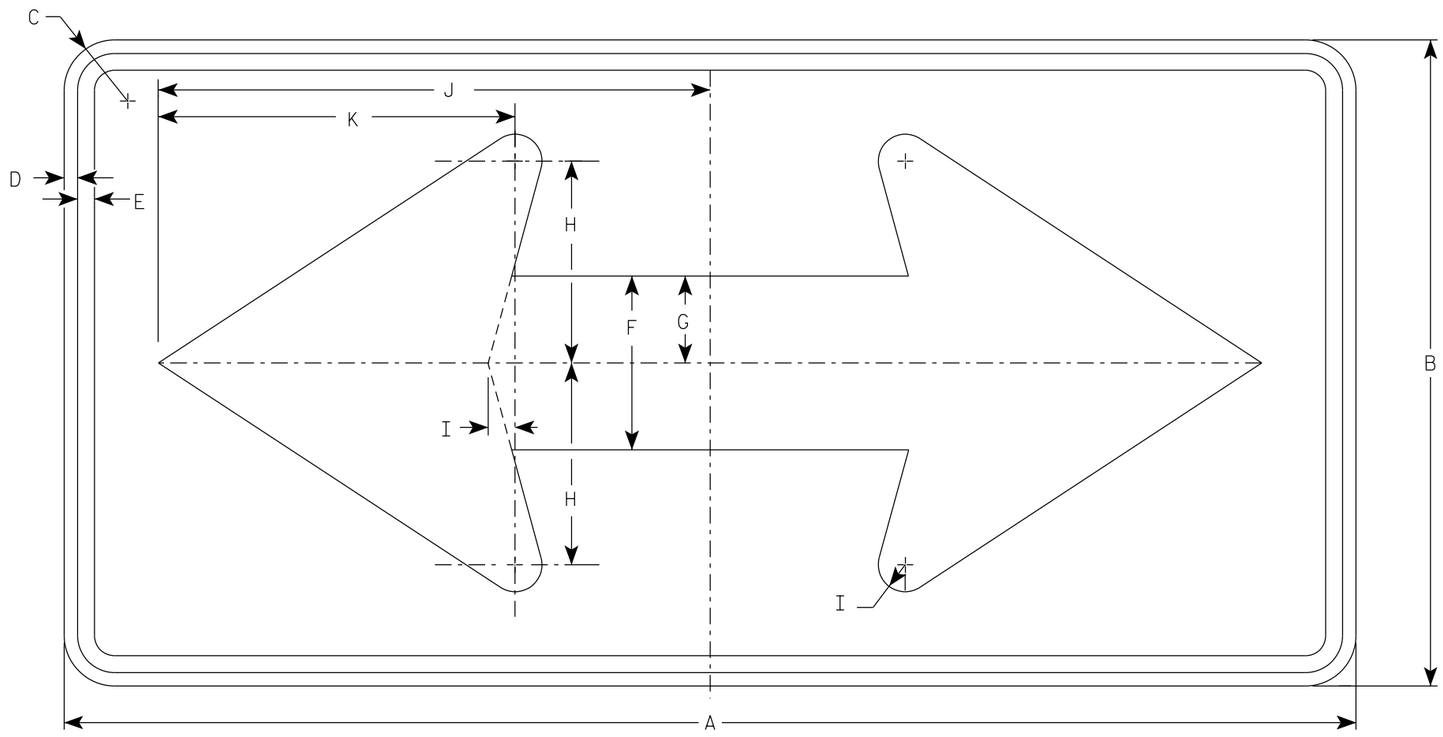
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 1/24/2024 PLATE NO. WO1-6.2

PROJECT NO: | HWY: | COUNTY: | SHEET NO: E

FILE NAME : C:\Users\PROJECTS\tr_stdplate\WO16.dgn PLOT DATE : 24-JAN 2024 1:12 PLOT BY : dotc4c PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42



W01-7

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	6 1/2	3 1/4	7 1/2	1	20 1/2	13 1/4																8.0
2M	48	24	1 7/8	1/2	5/8	6 1/2	3 1/4	7 1/2	1	20 1/2	13 1/4																8.0
3	60	30	1 7/8	1/2	5/8	8	4	9 1/4	1 1/4	25 3/8	16 1/4																12.5
4	60	30	1 7/8	1/2	5/8	8	4	9 1/4	1 1/4	25 3/8	16 1/4																12.5
5	60	30	1 7/8	1/2	5/8	8	4	9 1/4	1 1/4	25 3/8	16 1/4																12.5

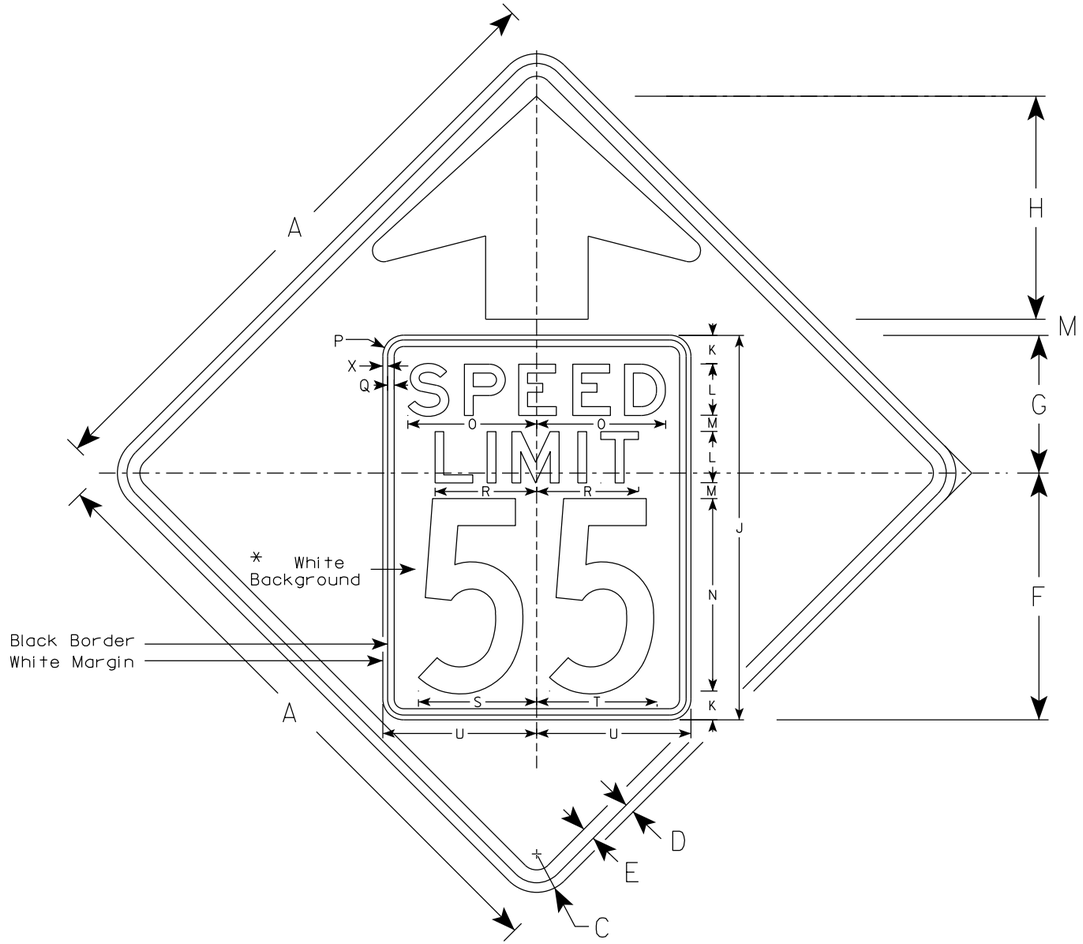
STANDARD SIGN
W01-7

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 1/24/2024 PLATE NO. W01-7.2

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 401 | E

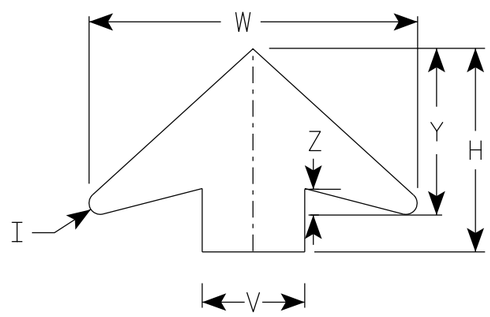


W03-5

NOTES

1. Sign is Type II - Type F Reflective
2. Color: *
   Background - ORANGE*
   Message - BLACK
3. Message Series - C for numbers Series E for wording
4. Substitute appropriate numerals and optically adjust spacing to achieve proper balance

*Speed Limit Sign shall have a White 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	14 1/2	9 1/2	11 1/2	5/8	24	2	3	1	12	7 1/8	1 1/2	3/8	5 3/4	7 1/4	7 1/8	9	6	19 1/4	3/8	9 3/4	1 5/8	9.0
2S	48		3	3/4	1	19 1/4	10 3/4	17 3/8	7/8	30	2 1/4	4	1 1/4	15	10	1 5/8	1/2	8	9 1/4	9 3/8	12	8	25 5/8	3/8	13	2	16.0
2M	48		3	3/4	1	19 1/4	10 3/4	17 3/8	7/8	30	2 1/4	4	1 1/4	15	10	1 5/8	1/2	8	9 1/4	9 3/8	12	8	25 5/8	3/8	13	2	16.0
3	48		3	3/4	1	19 1/4	10 3/4	17 3/8	7/8	30	2 1/4	4	1 1/4	15	10	1 5/8	1/2	8	9 1/4	9 3/8	12	8	25 5/8	3/8	13	2	16.0
4	48		3	3/4	1	19 1/4	10 3/4	17 3/8	7/8	30	2 1/4	4	1 1/4	15	10	1 5/8	1/2	8	9 1/4	9 3/8	12	8	25 5/8	3/8	13	2	16.0
5	48		3	3/4	1	19 1/4	10 3/4	17 3/8	7/8	30	2 1/4	4	1 1/4	15	10	1 5/8	1/2	8	9 1/4	9 3/8	12	8	25 5/8	3/8	13	2	16.0

STANDARD SIGN
W03-5

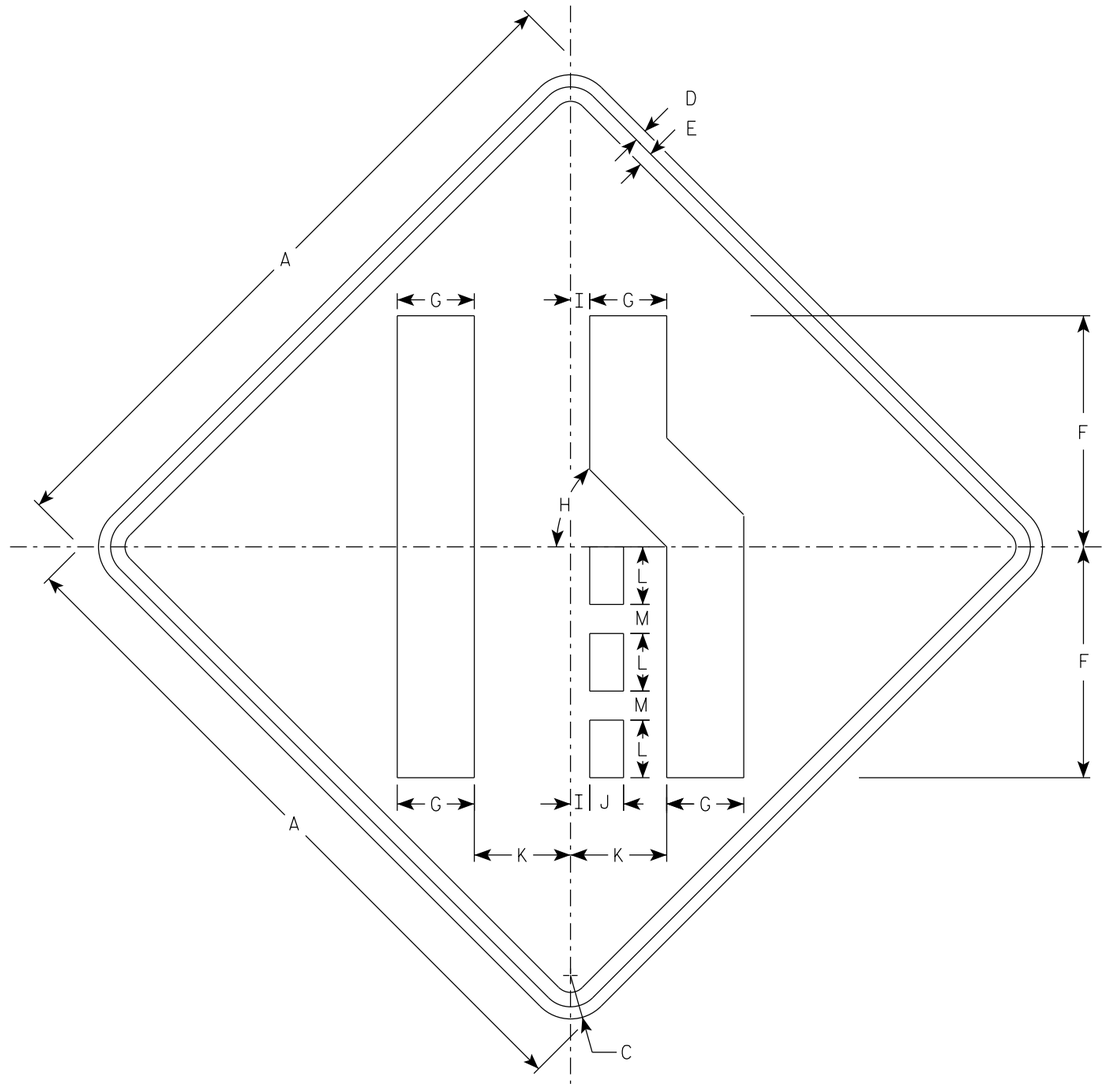
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 1/24/2024 PLATE NO. W03-5.2

PROJECT NO:

SHEET NO: 402 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

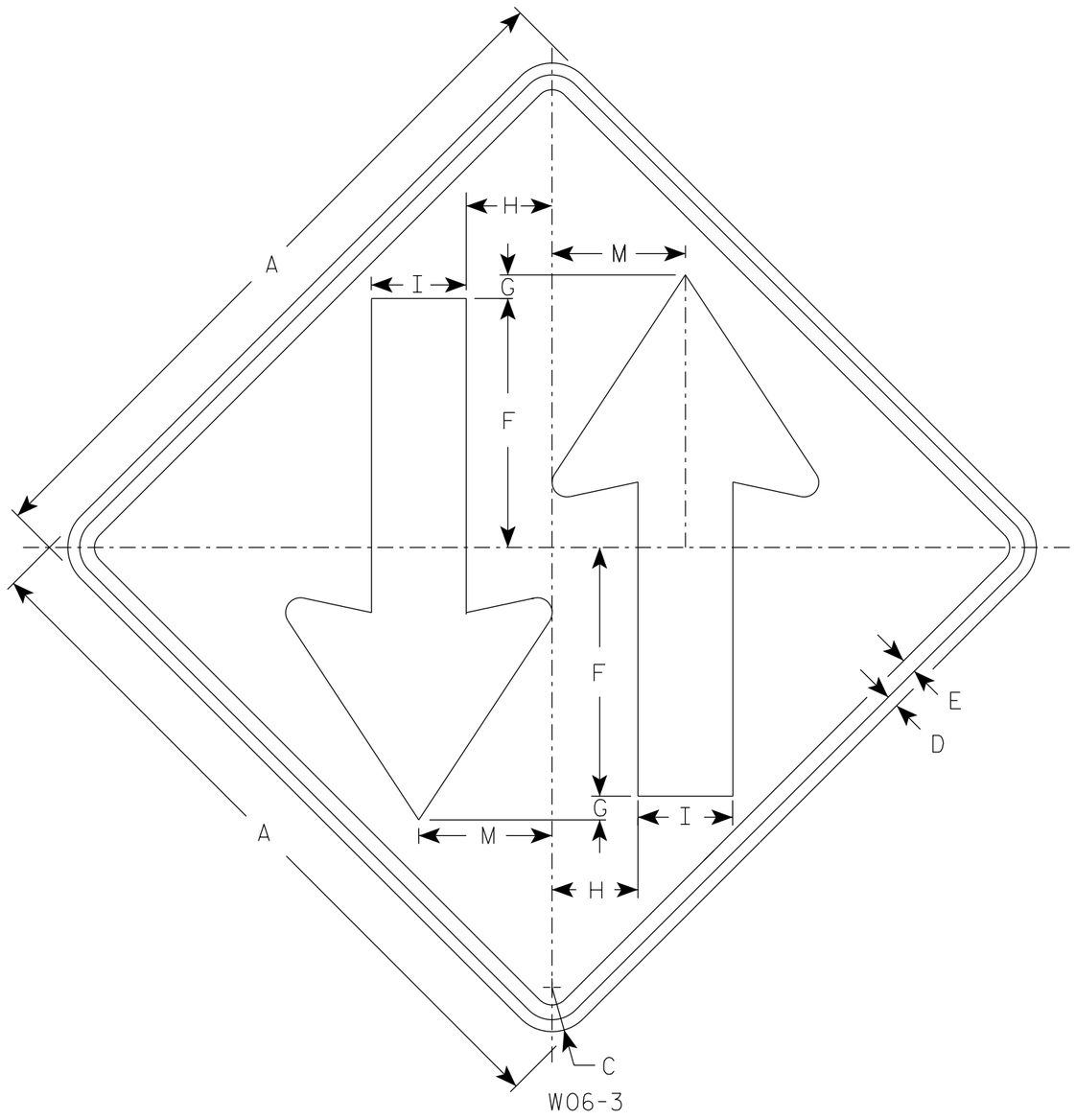
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 1/25/2024 PLATE NO. W04-2.2

PROJECT NO:

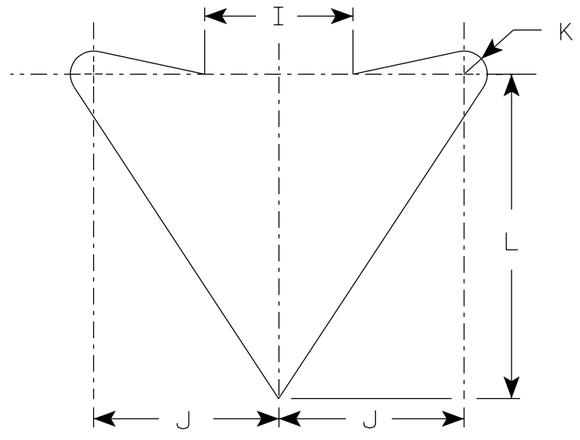
SHEET NO: 403 E



W06-3

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.



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	12	1	4 1/4	5	6	3/4	10 1/2	6 3/4														9.0
2S	48		3	3/4	1	15 1/2	1	6	6	8	1	14	9														16.0
2M	48		3	3/4	1	15 1/2	1	6	6	8	1	14	9														16.0
3	48		3	3/4	1	15 1/2	1	6	6	8	1	14	9														16.0
4	48		3	3/4	1	15 1/2	1	6	6	8	1	14	9														16.0
5	48		3	3/4	1	15 1/2	1	6	6	8	1	14	9														16.0

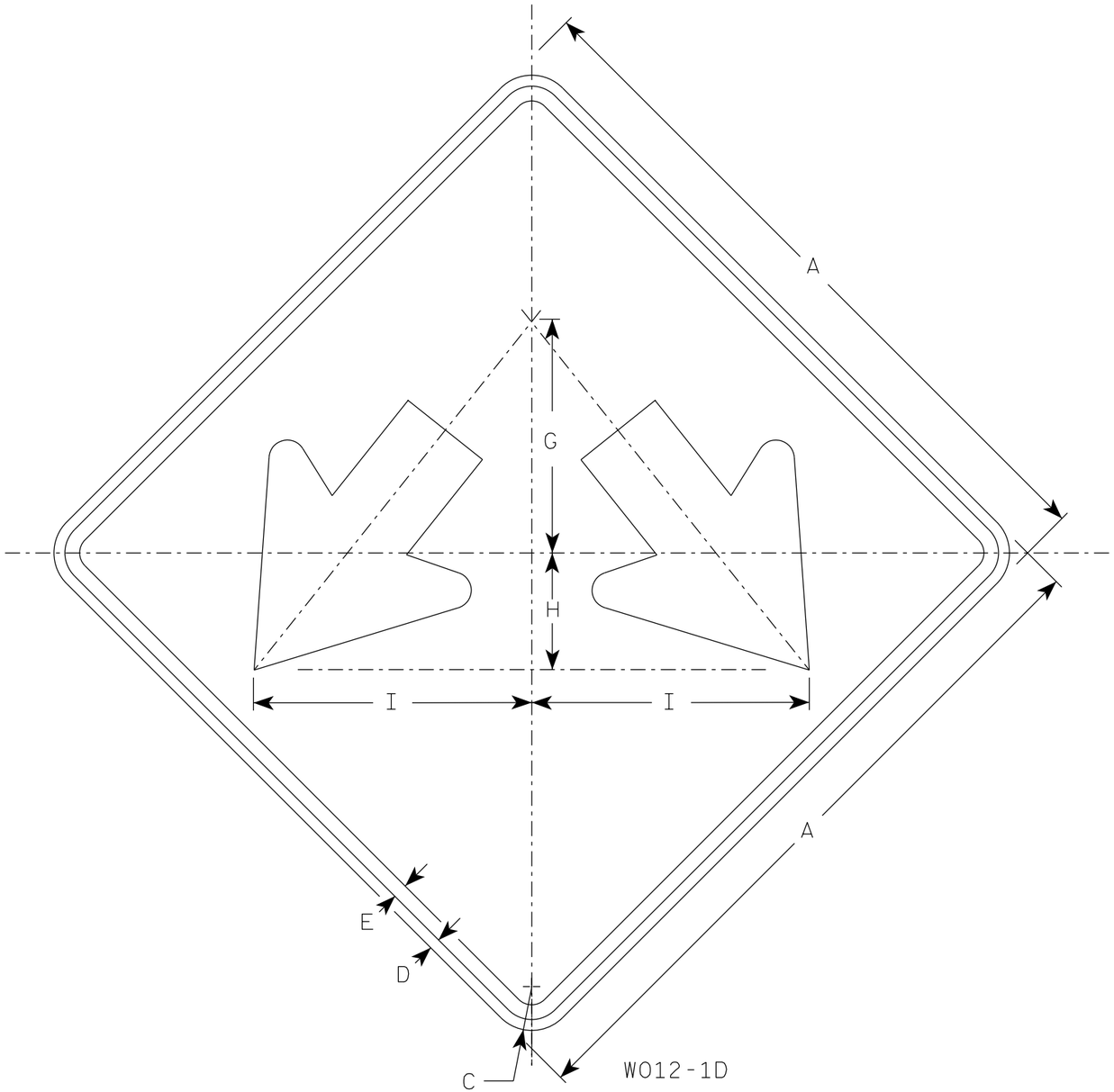
STANDARD SIGN
W06-3

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 1/30/2024 PLATE NO. W06-3.2

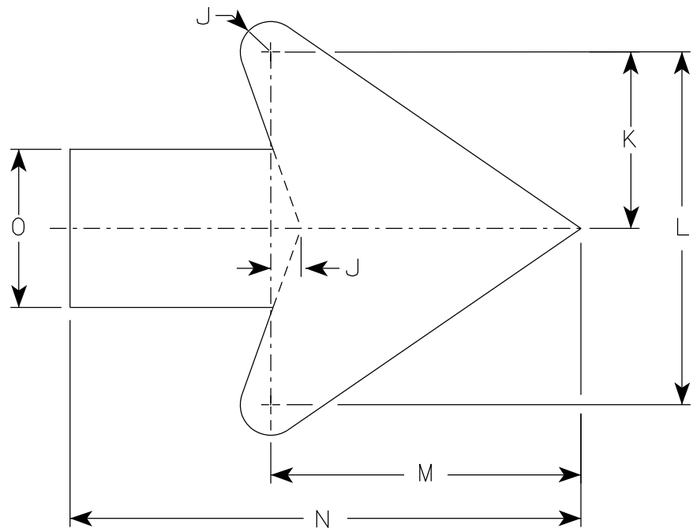
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 404 | E



W012-1D

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.



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	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
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	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

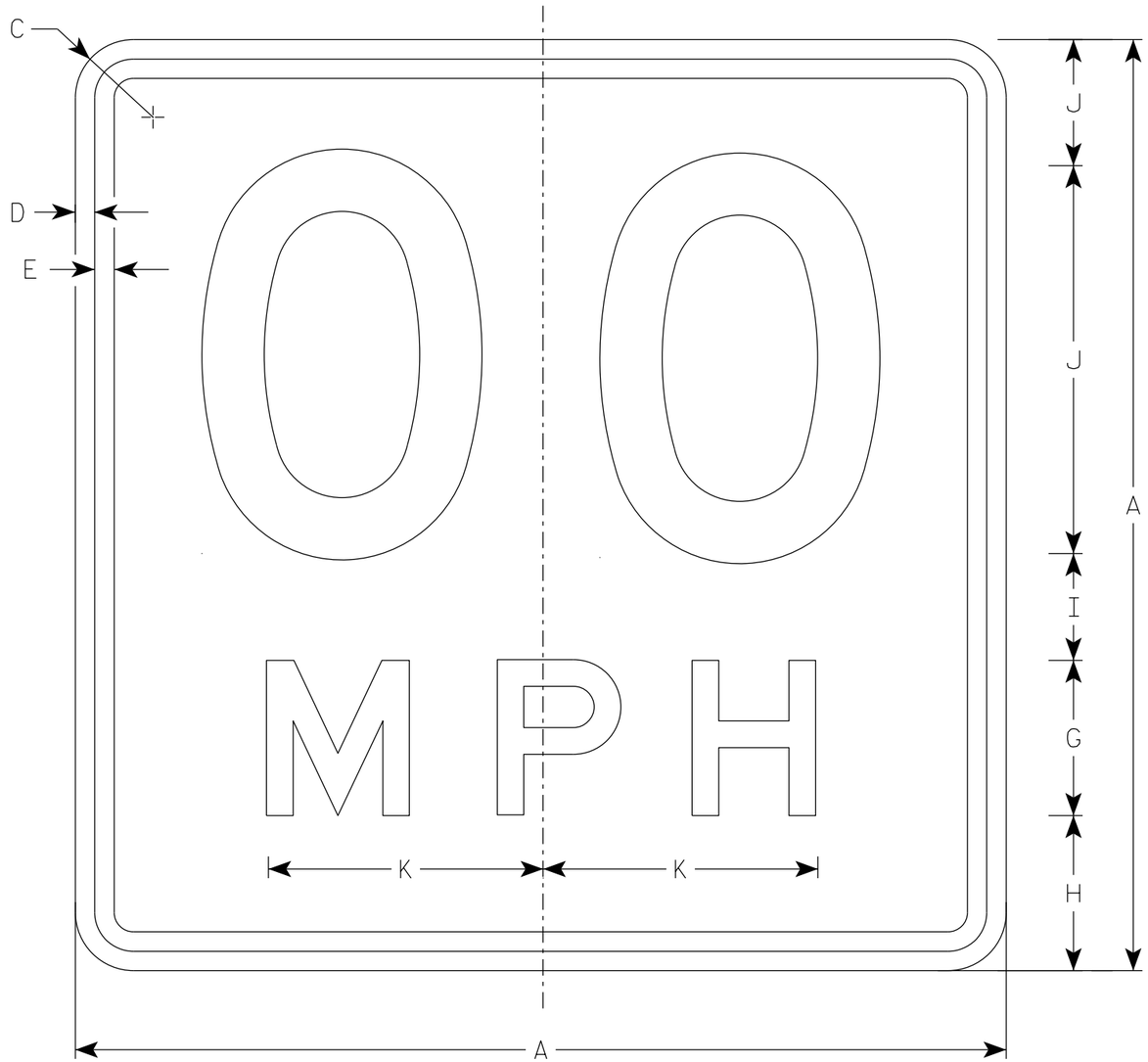
STANDARD SIGN
W012-1D

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/1/2024 PLATE NO. W012-1D.3

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 405	E



W013-1

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Message Series - See Note 6
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 and optically space about centerline to achieve proper balance.
6. 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	24		1 1/2	3/8	1/2	10	4	4	2 3/4	3 1/4	7 1/8																4.0
2S	36		2 1/4	5/8	3/4	16	6	5 1/2	4	4 1/2	10 5/8																9.0
2M	36		2 1/4	5/8	3/4	16	6	5 1/2	4	4 1/2	10 5/8																9.0
3	36		2 1/4	5/8	3/4	16	6	5 1/2	4	4 1/2	10 5/8																9.0
4	36		2 1/4	5/8	3/4	16	6	5 1/2	4	4 1/2	10 5/8																9.0
5	36		2 1/4	5/8	3/4	16	6	5 1/2	4	4 1/2	10 5/8																9.0

STANDARD SIGN
W013-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

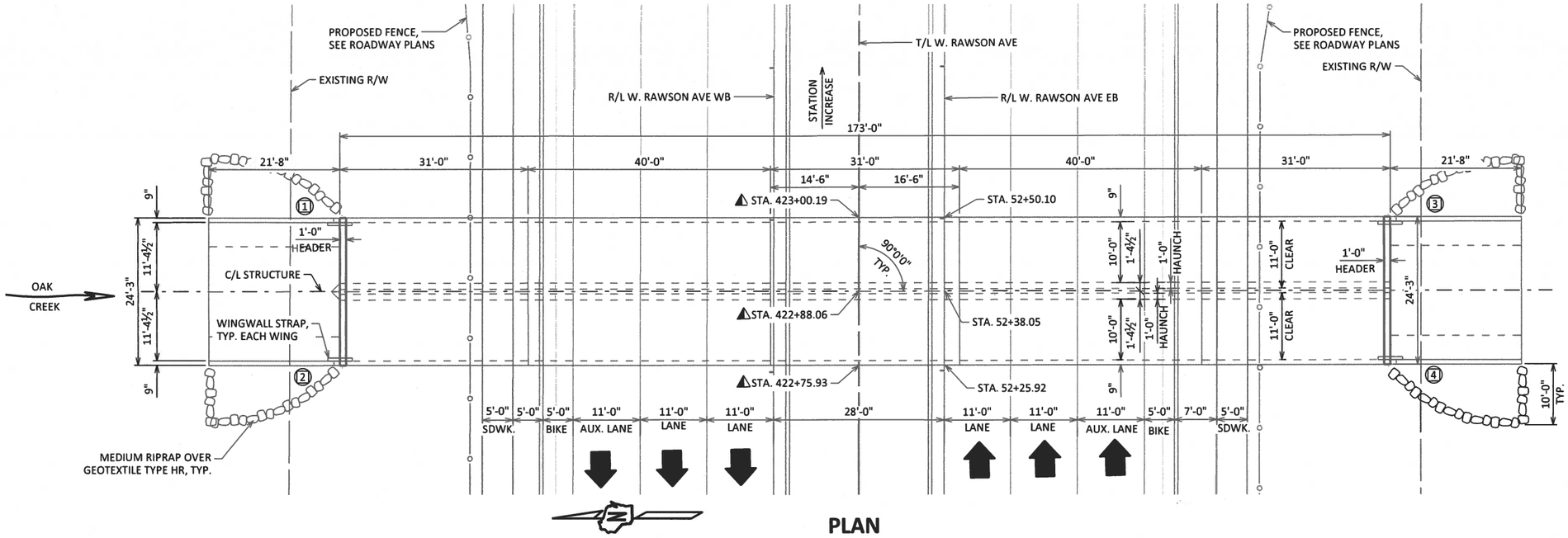
DATE 2/1/2024 PLATE NO. W013-1.2

PROJECT NO:	HWY:	COUNTY:		SHEET NO: E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\W0131.dgn PLOT DATE : 1-FEB 2024 9:56 PLOT BY : dotc4c PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

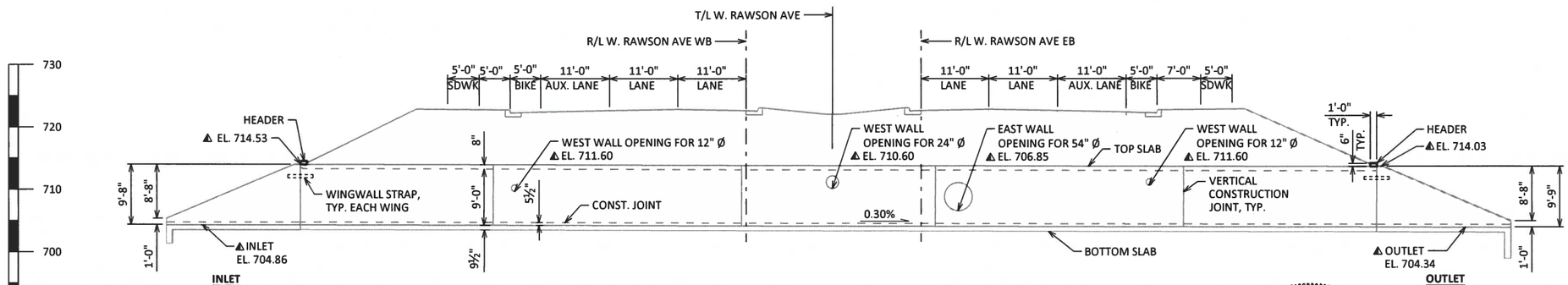
STATE PROJECT NUMBER

2050-08-71



PLAN

REHABILITATION 2 CELL BOX CULVERT



ELEVATION

LOOKING EAST

DESIGN DATA

LIVE LOAD:

TAKEN FROM HSI, 04/03/2024
DESIGN LOADING: HS-20
INVENTORY RATING: HS = 16
OPERATING RATING: HS = 27
WISCONSIN STANDARD PERMIT VEHICLE (WIS-SPV): 170 (KIPS)

EARTHLOAD:

DESIGNED FOR 8 FT. OF FILL
(TAKEN FROM ORIGINAL STRUCTURE PLANS)

MATERIAL PROPERTIES:

CONCRETE MASONRY —— f'_c = 3,500 PSI
BAR STEEL REINFORCEMENT —— f_y = 60,000 PSI

TRAFFIC DATA

W. RAWSON AVE :

ADT = 31,400 (2045)
R.D.S. = 45 MPH

SCOPE OF WORK B-40-389

1. STRAP WINGWALLS
2. CONCRETE SURFACE REPAIR
3. CONSTRUCT HEADERS
4. PLACE RIPRAP

LIST OF DRAWINGS:

1 GENERAL PLAN & ELEVATION
2 GENERAL NOTES & QUANTITIES
3 WINGWALL STRAPPING

LEGEND

⚠ STATION PER 1968 ORIGINAL STRUCTURE PLANS. ELEVATIONS PER 1968 ORIGINAL STRUCTURE PLANS PLUS 580.60 FOR MILWAUKEE BASELINE DATUM CORRECTION (NGVD 29)

(1) INDICATES WING NUMBER, PER 1968 ORIGINAL STRUCTURE PLANS

STRUCTURE DESIGN CONTACTS:

WYATT ROZMENOSKI 414-266-9066
AARON BONK 608-261-0261

NO.	DATE	REVISION	BY

GRÄEF
275 W. Wisconsin Avenue
Suite 300
Milwaukee, WI 53203
414 / 259 1500
414 / 259 0037 fax
www.graef-usa.com

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORATION

ACCEPTED SDR 11/18/24
CHIEF STRUCTURES DESIGN ENGINEER — DATE

WISCONSIN
WYATT ROZMENOSKI
47659
MILWAUKEE, WI
4/3/24
PROFESSIONAL ENGINEER

STRUCTURE B-40-389

W. RAWSON AVE (CTH BB) OVER OAK CREEK

COUNTY	CITY
MILWAUKEE	OAK CREEK

DESIGN SPEC.
N/A REHABILITATION

DESIGNED BY	DESIGNED CK'D	DRAWN BY	PLANS CK'D
WAR	KGW	CWG	KGW

GENERAL PLAN & ELEVATION

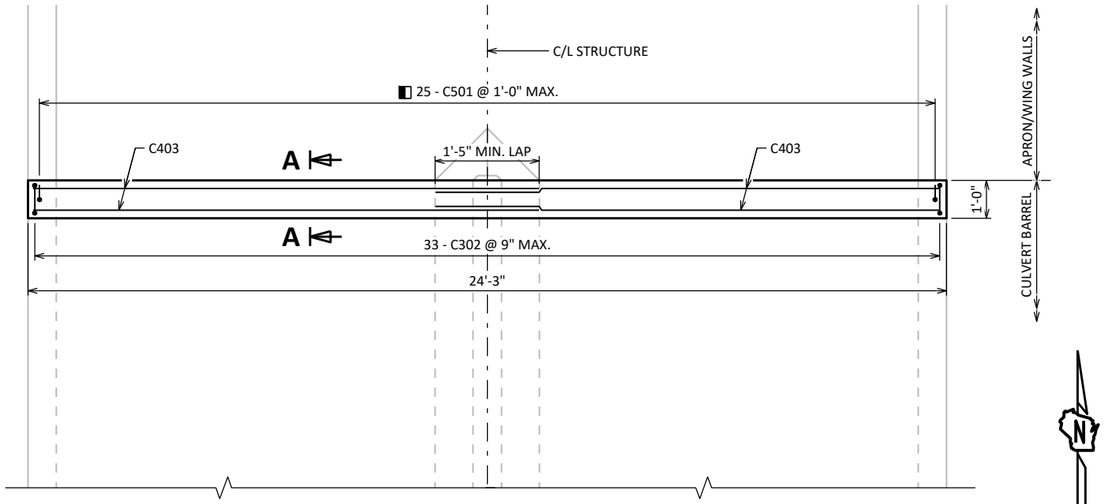
SHEET 1 OF 3

407

I.D. DATE: SCALE =

STATE PROJECT NUMBER

2050-08-71



HEADER PLAN VIEW

INLET HEADER SHOWN, OUTLET HEADER SIMILAR

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

DIMENSIONS SHOWN ARE BASED ON THE ORIGINAL STRUCTURE PLANS.

ALL STATIONS AND ELEVATIONS ARE IN FEET.

ALIGNMENTS SHOWN ARE PROPOSED PROVIDED BY MILWAUKEE COUNTY DEPARTMENT OF TRANSPORTATION.

THE EXISTING STRUCTURE B-40-389, IS A 2 CELL REINFORCED CONCRETE BOX CULVERT STRUCTURE WITH A BARREL LENGTH OF 173'-0".

THE UPPER LIMITS OF "EXCAVATION FOR STRUCTURES CULVERTS B-40-389" SHALL BE THE EXISTING GROUNDLINE.

ALL CONCRETE REMOVAL SHALL BE DEFINED BY A ½-INCH DEEP SAW CUT.

BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2-INCHES CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK INDICATE THE BAR SIZE.

BEVEL ALL EXPOSED EDGES OF CONCRETE ¾-INCH UNLESS NOTED OTHERWISE.

LOCATIONS OF "CONCRETE SURFACE REPAIR" WILL BE DESIGNATED BY THE FIELD ENGINEER. QUANTITIES SHOWN ON PLANS ARE APPROXIMATE.

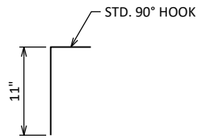
"CONCRETE SURFACE REPAIR" AT LOCATIONS UNDER WATER SHALL BE DEWATERED PRIOR TO BEGINNING WORK, SEE PROJECT SPECIFICATIONS.

"RIPRAP MEDIUM" SHALL BE PLACED AT LEAST 18 INCHES THICK.

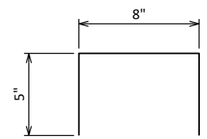
BILL OF BARS

NOTE: THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE.

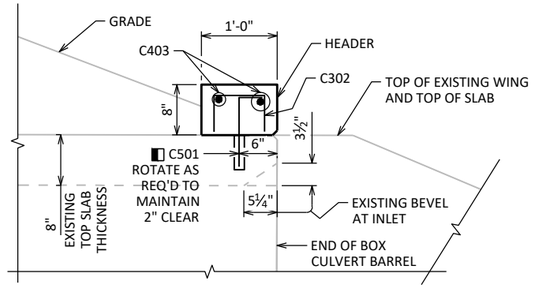
BAR MARK	NO. REQ'D.	LENGTH	BENT	LOCATION
◧ C501	50	1'-8"	X	HEADER DOWEL
C302	66	1'-6"	X	HEADER VERTICAL
C403	8	12'-9"		HEADER LONGITUDINAL



C501



C302



SECTION A-A

TOTAL ESTIMATED QUANTITIES

BID ITEM NUMBER	BID ITEMS	UNIT	TOTALS
206.2001.01	EXCAVATION FOR STRUCTURES CULVERTS B-40-389	EACH	1
502.4205	ADHESIVE ANCHORS NO. 5 BAR	EACH	50
504.0100	CONCRETE MASONRY CULVERTS	CY	2
505.0400	BAR STEEL REINFORCEMENT HS STRUCTURES	LB	190
509.1500	CONCRETE SURFACE REPAIR	SF	20
606.0200	RIPRAP MEDIUM	CY	26
645.0120	GEOTEXTILE TYPE HR	SY	89
SPV.0060	STRAPPING B-40-389	EACH	4
	NON-BID ITEMS		

LEGEND

◧ ADHESIVE ANCHORS NO. 5 BAR. EMBED 5" IN CONCRETE.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-40-389

DRAWN BY WAR | PLANS CK'D KGW

GENERAL NOTES & QUANTITIES

SHEET 2 OF 3

408

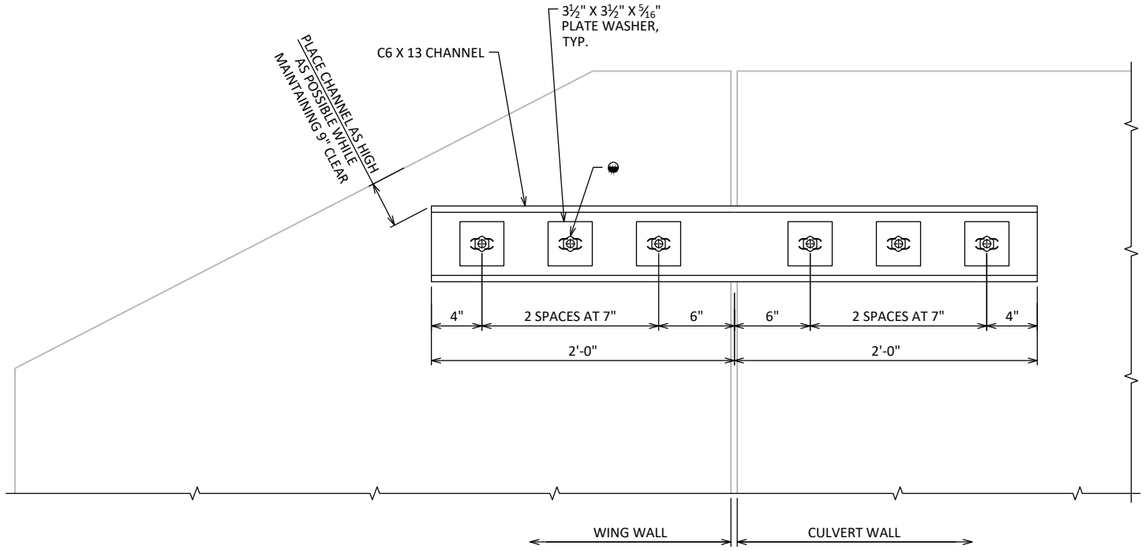
SCALE =

8

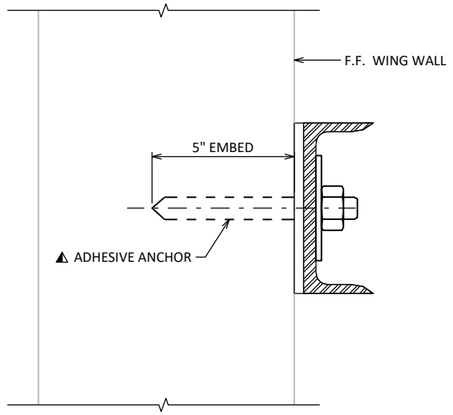
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STATE PROJECT NUMBER

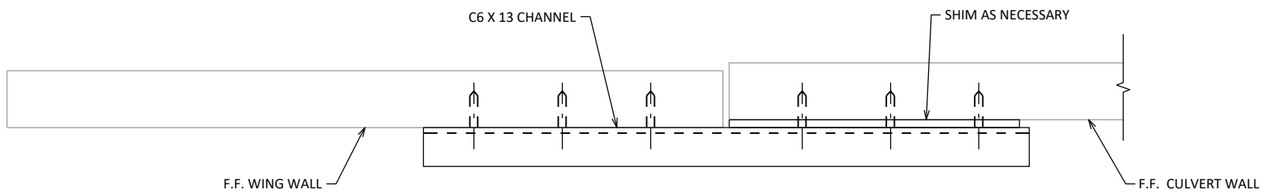
2050-08-71



WING ELEVATION



SECTION THRU CHANNEL



WING PLAN

NOTES

BID ITEM SHALL BE "STRAPPING B-40-389" WHICH INCLUDES ALL ITEMS SHOWN.

ALL PROVIDED STEEL MATERIAL SHALL CONFORM TO ASTM A36.

ALL STRUCTURAL STEEL SHOWN SHALL BE GALVANIZED. THREADED RODS, MASONRY ANCHORS, NUTS AND WASHERS SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A153 CLASS C.

CUTTING AND DRILLING OF CHANNEL SHALL BE DONE IN FABRICATION SHOP, PRIOR TO GALVANIZING.

IF WELDING COVER PLATE IN FIELD, PRIOR TO WELDING, REMOVE GALVANIZING FROM AREA TO BE WELDED. TOUCH UP WITH PAINT ALL AREAS LACKING GALVANIZING WHEN COMPLETE.

CAULK AROUND PERIMETER OF CHANNEL AND FILL PORTION OF HOLE AROUND ANCHOR BOLT AND SHIM WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER.

ADHESIVE ANCHORS SHALL CONFORM TO SECTION 502.2.12 OF THE STANDARD SPECIFICATIONS.

LEGEND

⚠ ADHESIVE ANCHORS 5/8 - INCH.
EMBED 5" IN CONCRETE.
SEE "SECTION THRU CHANNEL"

USE 11/16" X 1 3/16" LONG SLOTTED HOLES

8

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-40-389

DRAWN BY WAR | PLANS CK'D CWG

WINGWALL STRAPPING

SHEET 3 OF 3

409

SCALE =

DIVISION 1 - X-OVER_WEST

STATION	REAL STATION	DISTANCE	AREA (SF)						INCREMENTAL VOL (CY) (UNADJUSTED)						CUMULATIVE VOL (CY)							
			CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	MARSH EXC	ROCK EXC	EBS	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	MARSH EXC	ROCK EXC	EBS	CUT	EXPANDED FILL	EXPANDED MARSH BACKFILL	EXPANDED ROCK	EXPANDED EBS BACKFILL	REDUCED MARSH IN FILL	REDUCED EBS IN FILL	MASS ORDINATE
															1.00	1.00	1.00	1.00	1.00	1.00	1.00	
									NOTE 1	NOTE 2	NOTE 3				NOTE 1		NOTE 4		NOTE 5	NOTE 6	NOTE 7	NOTE 8
100+00.213	10000.21	0.00	4.69	0.00	0.06	0.00	0.00	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0
100+25	10025.00	24.79	4.77	0.00	0.09	0.00	0.00	0.00	4	0	0	0	0	0	4	0	0	0	0	0	0	4
100+50	10050.00	25.00	4.70	0.00	0.23	0.00	0.00	0.00	4	0	0	0	0	0	8	0	0	0	0	0	0	8
100+75	10075.00	25.00	6.39	0.00	0.13	0.00	0.00	0.00	5	0	0	0	0	0	13	0	0	0	0	0	0	13
101+00	10100.00	25.00	10.60	0.00	0.04	0.00	0.00	0.00	8	0	0	0	0	0	21	0	0	0	0	0	0	21
101+25	10125.00	25.00	13.78	1.50	0.00	0.00	0.00	0.00	11	1	0	0	0	0	32	0	0	0	0	0	0	31
101+50	10150.00	25.00	10.28	3.50	0.00	0.00	0.00	0.00	11	2	0	0	0	0	43	0	0	0	0	0	0	40
101+75	10175.00	25.00	7.68	5.00	0.08	0.00	0.00	0.00	8	4	0	0	0	0	51	0	0	0	0	0	0	44
102+00	10200.00	25.00	6.89	6.00	0.00	0.00	0.00	0.00	7	5	0	0	0	0	58	0	0	0	0	0	0	46
102+25	10225.00	25.00	4.45	8.00	0.00	0.00	0.00	0.00	5	6	0	0	0	0	63	0	0	0	0	0	0	45
102+50	10250.00	25.00	5.27	14.00	0.00	0.00	0.00	0.00	4	10	0	0	0	0	67	0	0	0	0	0	0	39
102+75	10275.00	25.00	5.56	14.00	0.00	0.00	0.00	0.00	5	13	0	0	0	0	72	0	0	0	0	0	0	31
103+00	10300.00	25.00	9.78	4.50	0.00	0.00	0.00	0.00	7	9	0	0	0	0	79	0	0	0	0	0	0	29
103+25	10325.00	25.00	7.13	0.00	0.00	0.00	0.00	0.00	8	2	0	0	0	0	87	0	0	0	0	0	0	35
103+50	10350.00	25.00	7.50	0.00	0.00	0.00	0.00	0.00	7	0	0	0	0	0	94	0	0	0	0	0	0	42
103+75	10375.00	25.00	8.22	0.00	0.00	0.00	0.00	0.00	7	0	0	0	0	0	101	0	0	0	0	0	0	49
104+00	10400.00	25.00	7.56	0.00	0.00	0.00	0.00	0.00	7	0	0	0	0	0	108	0	0	0	0	0	0	56
104+25	10425.00	25.00	5.84	0.00	0.00	0.00	0.00	0.00	6	0	0	0	0	0	114	0	0	0	0	0	0	62
104+50	10450.00	25.00	6.66	0.00	0.00	0.00	0.00	0.00	6	0	0	0	0	0	120	0	0	0	0	0	0	68
104+61.68	10461.68	11.68	9.24	0.00	0.00	0.00	0.00	0.00	3	0	0	0	0	0	123	0	0	0	0	0	0	71
104+74.997	10475.00	13.32	0.37	0.00	0.24	0.00	0.00	0.00	2	0	0	0	0	0	125	0	0	0	0	0	0	73
104+75	10475.00	0.00	0.36	0.00	0.24	0.00	0.00	0.00	0	0	0	0	0	0	125	0	0	0	0	0	0	73

DIVISION 1 - X-OVER_EAST

STATION	REAL STATION	DISTANCE	AREA (SF)						INCREMENTAL VOL (CY) (UNADJUSTED)						CUMULATIVE VOL (CY)							
			CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	MARSH EXC	ROCK EXC	EBS	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	MARSH EXC	ROCK EXC	EBS	CUT	EXPANDED FILL	EXPANDED MARSH BACKFILL	EXPANDED ROCK	EXPANDED EBS BACKFILL	REDUCED MARSH IN FILL	REDUCED EBS IN FILL	MASS ORDINATE
															1.00	1.00	1.00	1.00	1.00	1.00	1.00	
									NOTE 1	NOTE 2	NOTE 3				NOTE 1		NOTE 4		NOTE 5	NOTE 6	NOTE 7	NOTE 8
200+00	20000.00	0.00	20.06	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0
200+25	20025.00	25.00	24.72	0.00	0.00	0.00	0.00	0.00	21	0	0	0	0	0	21	0	0	0	0	0	0	21
200+43.812	20043.81	18.81	24.30	0.00	0.00	0.00	0.00	0.00	17	0	0	0	0	0	38	0	0	0	0	0	0	38
200+50	20050.00	6.19	24.18	0.00	0.00	0.00	0.00	0.00	6	0	0	0	0	0	44	0	0	0	0	0	0	44
200+75	20075.00	25.00	24.62	0.00	0.00	0.00	0.00	0.00	23	0	0	0	0	0	67	0	0	0	0	0	0	67
201+00	20100.00	25.00	27.10	0.00	0.00	0.00	0.00	0.00	24	0	0	0	0	0	91	0	0	0	0	0	0	91
201+25	20125.00	25.00	31.74	0.00	0.00	0.00	0.00	0.00	27	0	0	0	0	0	118	0	0	0	0	0	0	118
201+50	20150.00	25.00	36.28	0.00	0.00	0.00	0.00	0.00	31	0	0	0	0	0	149	0	0	0	0	0	0	149
201+75	20175.00	25.00	41.62	0.00	0.00	0.00	0.00	0.00	36	0	0	0	0	0	185	0	0	0	0	0	0	185
202+00	20200.00	25.00	42.82	0.00	0.00	0.00	0.00	0.00	39	0	0	0	0	0	224	0	0	0	0	0	0	224
202+25	20225.00	25.00	38.54	0.00	0.00	0.00	0.00	0.00	38	0	0	0	0	0	262	0	0	0	0	0	0	262
202+50	20250.00	25.00	41.61	0.00	0.00	0.00	0.00	0.00	37	0	0	0	0	0	299	0	0	0	0	0	0	299
202+75	20275.00	25.00	45.15	0.00	0.00	0.00	0.00	0.00	40	0	0	0	0	0	339	0	0	0	0	0	0	339
203+00	20300.00	25.00	48.04	0.00	0.00	0.00	0.00	0.00	43	0	0	0	0	0	382	0	0	0	0	0	0	382
203+25	20325.00	25.00	45.29	0.00	0.00	0.00	0.00	0.00	43	0	0	0	0	0	425	0	0	0	0	0	0	425
203+50	20350.00	25.00	38.25	0.00	0.00	0.00	0.00	0.00	39	0	0	0	0	0	464	0	0	0	0	0	0	464
203+75	20375.00	25.00	31.43	0.00	0.00	0.00	0.00	0.00	32	0	0	0	0	0	496	0	0	0	0	0	0	496
204+00	20400.00	25.00	24.95	0.00	0.00	0.00	0.00	0.00	26	0	0	0	0	0	522	0	0	0	0	0	0	522
204+25	20425.00	25.00	19.65	0.00	0.00	0.00	0.00	0.00	21	0	0	0	0	0	543	0	0	0	0	0	0	543
204+50	20450.00	25.00	14.81	0.00	0.00	0.00	0.00	0.00	16	0	0	0	0	0	559	0	0	0	0	0	0	559
204+75	20475.00	25.00	12.84	0.00	0.00	0.00	0.00	0.00	13	0	0	0	0	0	572	0	0	0	0	0	0	572
205+00	20500.00	25.00	12.78	0.00	0.00	0.00	0.00	0.00	12	0	0	0	0	0	584	0	0	0	0	0	0	584
205+25	20525.00	25.00	12.36	0.00	0.00	0.00	0.00	0.00	12	0	0	0	0	0	596	0	0	0	0	0	0	596

Notes:		
1 - CUT	CUT INCLUDES SALVAGED/UNUSABLE PAVEMENT MATERIAL	
2 - SALVAGED/UNUSABL	THIS DOES NOT SHOW UP IN CROSS SECTIONS	
3 - FILL	DOES NOT INCLUDE UNUSABLE PAVEMENT EXC VOLUME	
4 - EXPANDED MARSH B	WILL BE BACKFILLED WITH GRANULAR BACKFILL (OR CUT, OR BORROW)	NOTE 4 - SELECT ONE BASED ON INPUT DIALOG SELECTION
5 - EXPANDED EBS	WILL BE BACKFILLED WITH GRANULAR BACKFILL (OR CUT, OR BORROW)	NOTE 5 - SELECT ONE BASED ON INPUT DIALOG SELECTION
6 - REDUCED MARSH IN	REDUCED MARSH EXCAVATION THAT CAN BE USED IN FILL	NOTE 6 - IF EXCAVATED MARSH CAN BE USED IN FILL
7 - REDUCED EBS IN FILL	REDUCED EBS EXCAVATION THAT CAN BE USED IN FILL	NOTE 7 - IF EXCAVATED EBS CAN BE USED IN FILL
8 - MASS ORDINATE	IF MARSH OR EBS TO BE BACKFILLED WITH COMMON OR BORROW: [(CUT - SALVAGED PAVT - EXPANDED MARSH EXC - EXPANDED EBS) - ((FILL - REDUCED MARSH IN FILL - REDUCED EBS IN FILL - EXPANDED ROCK) * FILL FACTOR)]	NOTE 8 - SELECT ONE BASED ON MASS HAUL INPUT DIALOG SELECTION. EBS AND MARSH EXC USED OUTSIDE 1:1 IN FILL SLOPES
8 - MASS ORDINATE	IF MARSH AND EBS TO BE BACKFILLED WITH GRANULAR: [CUT - SALVAGED PAVT - ((FILL - REDUCED MARSH IN FILL - REDUCED EBS IN FILL - EXPANDED ROCK) * FILL FACTOR)]	EBS AND MARSH EXC USED OUTSIDE 1:1 IN FILL SLOPES
8 - MASS ORDINATE	IF MARSH AND EBS TO BE BACKFILLED WITH COMMON OR BORROW: [(CUT - SALVAGED PAVT - EXPANDED MARSH EXC - EXPANDED EBS) - ((FILL - EXPANDED ROCK) * FILL FACTOR)]	MARSH AND EBS ARE NOT USABLE OUTSIDE THE 1:1 SLOPES
8 - MASS ORDINATE	IF MARSH AND EBS TO BE BACKFILLED WITH GRANULAR: [CUT - SALVAGED PAVT - ((FILL - EXPANDED ROCK) * FILL FACTOR)]	MARSH AND EBS ARE NOT USABLE OUTSIDE THE 1:1 SLOPES

DIVISION 2 - BB-EB

STATION	REAL STATION	DISTANCE	AREA (SF)						INCREMENTAL VOL (CY) (UNADJUSTED)						CUMULATIVE VOL (CY)							
			CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	MARSH EXC	ROCK EXC	EBS	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	MARSH EXC	ROCK EXC	EBS	CUT	EXPANDED FILL	EXPANDED MARSH BACKFILL	EXPANDED ROCK	EXPANDED EBS BACKFILL	REDUCED MARSH IN FILL	REDUCED EBS IN FILL	MASS ORDINATE
									NOTE 1	NOTE 2	NOTE 3				1.00 NOTE 1	1.00	1.00 NOTE 4	1.00	1.00 NOTE 5	1.00 NOTE 6	1.00 NOTE 7	NOTE 8
13+06.75	1306.75	0.00	91.82	19.00	1.33	0.00	0.00	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13+50	1350.00	43.25	107.00	34.00	0.00	0.00	0.00	0.00	159	42	1	0	0	0	159	1	0	0	0	0	0	116
14+00	1400.00	50.00	113.61	34.00	0.00	0.00	0.00	0.00	204	63	0	0	0	0	363	1	0	0	0	0	0	257
14+50	1450.00	50.00	84.02	19.00	3.27	0.00	0.00	0.00	183	49	3	0	0	0	546	4	0	0	0	0	0	388
15+00	1500.00	50.00	93.84	19.00	1.36	0.00	0.00	0.00	165	35	4	0	0	0	711	8	0	0	0	0	0	514
15+50	1550.00	50.00	113.50	19.00	0.56	0.00	0.00	0.00	192	35	2	0	0	0	903	10	0	0	0	0	0	669
16+00	1600.00	50.00	116.35	34.00	0.01	0.00	0.00	0.00	213	49	1	0	0	0	1,116	11	0	0	0	0	0	832
16+50	1650.00	50.00	112.57	19.00	0.02	0.00	0.00	0.00	212	49	0	0	0	0	1,328	11	0	0	0	0	0	995
17+00	1700.00	50.00	116.43	19.00	0.84	0.00	0.00	0.00	212	35	1	0	0	0	1,540	12	0	0	0	0	0	1,171
17+50	1750.00	50.00	125.52	19.00	0.00	0.00	0.00	0.00	224	35	1	0	0	0	1,764	13	0	0	0	0	0	1,359
18+00	1800.00	50.00	127.00	21.50	0.00	0.00	0.00	0.00	234	38	0	0	0	0	1,998	13	0	0	0	0	0	1,555
18+50	1850.00	50.00	118.37	22.50	0.00	0.00	0.00	0.00	227	41	0	0	0	0	2,225	13	0	0	0	0	0	1,741
19+00	1900.00	50.00	115.49	26.00	0.12	0.00	0.00	0.00	217	45	0	0	0	0	2,442	13	0	0	0	0	0	1,913
19+50	1950.00	50.00	111.74	26.00	0.08	0.00	0.00	0.00	210	48	0	0	0	0	2,652	13	0	0	0	0	0	2,075
20+00	2000.00	50.00	94.76	26.00	0.00	0.00	0.00	0.00	191	48	0	0	0	0	2,843	13	0	0	0	0	0	2,218
20+50	2050.00	50.00	182.40	34.00	0.00	0.00	0.00	0.00	257	56	0	0	0	0	3,100	13	0	0	0	0	0	2,419
21+00	2100.00	50.00	110.65	34.00	0.44	0.00	0.00	0.00	271	63	0	0	0	0	3,371	13	0	0	0	0	0	2,627
21+50	2150.00	50.00	104.23	28.00	0.60	0.00	0.00	0.00	199	57	1	0	0	0	3,570	14	0	0	0	0	0	2,768
22+00	2200.00	50.00	108.41	28.00	0.08	0.00	0.00	0.00	197	52	1	0	0	0	3,767	15	0	0	0	0	0	2,912
22+50	2250.00	50.00	108.87	26.00	0.07	0.00	0.00	0.00	201	50	0	0	0	0	3,968	15	0	0	0	0	0	3,063
23+00	2300.00	50.00	109.47	24.50	0.38	0.00	0.00	0.00	202	47	0	0	0	0	4,170	15	0	0	0	0	0	3,218
23+50	2350.00	50.00	108.58	19.00	0.00	0.00	0.00	0.00	202	40	0	0	0	0	4,372	15	0	0	0	0	0	3,380
24+00	2400.00	50.00	111.26	19.00	0.00	0.00	0.00	0.00	204	35	0	0	0	0	4,576	15	0	0	0	0	0	3,549
24+50	2450.00	50.00	110.74	19.00	0.00	0.00	0.00	0.00	206	35	0	0	0	0	4,782	15	0	0	0	0	0	3,720
25+00	2500.00	50.00	132.41	19.00	0.00	0.00	0.00	0.00	225	35	0	0	0	0	5,007	15	0	0	0	0	0	3,910
25+50	2550.00	50.00	86.41	19.00	6.83	0.00	0.00	0.00	203	35	6	0	0	0	5,210	21	0	0	0	0	0	4,072
26+00	2600.00	50.00	92.60	19.00	3.75	0.00	0.00	140.00	166	35	10	0	0	130	5,376	-99	0	0	130	0	130	4,323
26+50	2650.00	50.00	100.87	34.00	0.00	0.00	0.00	140.00	179	49	3	0	0	259	5,555	-355	0	0	389	0	389	4,709
27+00	2700.00	50.00	101.48	34.00	0.00	0.00	0.00	140.00	187	63	0	0	0	259	5,742	-614	0	0	648	0	648	5,092
27+50	2750.00	50.00	106.22	29.00	0.00	0.00	0.00	140.00	192	58	0	0	0	259	5,934	-873	0	0	907	0	907	5,485
28+00	2800.00	50.00	96.34	29.00	0.43	0.00	0.00	140.00	188	54	0	0	0	259	6,122	-1,132	0	0	1,166	0	1,166	5,878
28+50	2850.00	50.00	104.96	27.50	0.00	0.00	0.00	140.00	186	52	0	0	0	259	6,308	-1,391	0	0	1,425	0	1,425	6,271
29+00	2900.00	50.00	100.43	21.00	0.00	0.00	0.00	140.00	190	45	0	0	0	259	6,498	-1,650	0	0	1,684	0	1,684	6,675
29+50	2950.00	50.00	87.52	19.00	3.59	0.00	0.00	140.00	174	37	3	0	0	259	6,672	-1,906	0	0	1,943	0	1,943	7,068
30+00	3000.00	50.00	85.90	19.00	3.42	0.00	0.00	140.00	161	35	6	0	0	259	6,833	-2,159	0	0	2,202	0	2,202	7,447
30+50	3050.00	50.00	92.12	19.00	1.99	0.00	0.00	0.00	165	35	5	0	0	130	6,998	-2,284	0	0	2,332	0	2,332	7,702
31+00	3100.00	50.00	93.79	19.00	0.43	0.00	0.00	0.00	172	35	2	0	0	0	7,170	-2,282	0	0	2,332	0	2,332	7,837
31+50	3150.00	50.00	88.63	19.00	0.40	0.00	0.00	0.00	169	35	1	0	0	0	7,339	-2,281	0	0	2,332	0	2,332	7,970
32+00	3200.00	50.00	94.12	19.00	2.37	0.00	0.00	0.00	169	35	3	0	0	0	7,508	-2,278	0	0	2,332	0	2,332	8,101
32+50	3250.00	50.00	88.37	19.00	3.26	0.00	0.00	0.00	169	35	5	0	0	0	7,677	-2,273	0	0	2,332	0	2,332	8,230
33+00	3300.00	50.00	81.84	19.00	5.62	0.00	0.00	0.00	158	35	8	0	0	0	7,835	-2,265	0	0	2,332	0	2,332	8,345
33+50	3350.00	50.00	73.77	19.00	13.14	0.00	0.00	0.00	144	35	17	0	0	0	7,979	-2,248	0	0	2,332	0	2,332	8,437
34+00	3400.00	50.00	69.23	19.00	13.08	0.00	0.00	0.00	132	35	24	0	0	0	8,111	-2,224	0	0	2,332	0	2,332	8,510
34+50	3450.00	50.00	67.59	19.00	9.92	0.00	0.00	0.00	127	35	21	0	0	0	8,238	-2,203	0	0	2,332	0	2,332	8,581
35+00	3500.00	50.00	79.30	22.50	7.90	0.00	0.00	0.00	136	38	17	0	0	0	8,374	-2,186	0	0	2,332	0	2,332	8,662
35+50	3550.00	50.00	90.46	26.00	2.51	0.00	0.00	0.00	157	45	10	0	0	0	8,531	-2,176	0	0	2,332	0	2,332	8,764
36+00	3600.00	50.00	82.98	28.50	4.05	0.00	0.00	0.00	161	50	6	0	0	0	8,692	-2,170	0	0	2,332	0	2,332	8,869
36+50	3650.00	50.00	110.21	29.00	0.00	0.00	0.00	0.00	179	53	4	0	0	0	8,871	-2,166	0	0	2,332	0	2,332	8,991
37+00	3700.00	50.00	93.89	29.00	1.88	0.00	0.00	0.00	189	54	2	0	0	0	9,060	-2,164	0	0	2,332	0	2,332	9,124
37+50	3750.00	50.00	95.07	29.00	0.88	0.00	0.00	0.00	175	54	3	0	0	0	9,235	-2,161	0	0	2,332	0	2,332	9,242
38+00	3800.00	50.00	99.19	29.00	0.24	0.00	0.00	0.00	180	54	1	0	0	0	9,415	-2,160	0	0	2,332	0	2,332	9,367
38+50	3850.00	50.00	104.95	29.00	1.03	0.00	0.00	0.00	189	54	1	0	0	0	9,604	-2,159	0	0	2,332	0	2,332	9,501
39+00	3900.00	50.00	263.82	34.00	0.00	0.00	0.00	0.00	341	58	1	0	0	0	9,945	-2,158	0	0	2,332	0	2,332	9,783
39+50	3950.00	50.00	269.84	34.00	0.00	0.00	0.00	0.00	494	63	0	0	0	0	10,439	-2,158	0	0	2,332	0	2,332	10,214
40+00	4000.00	50.00	114.63	28.00	0.00	0.00	0.00	0.00	356	57	0	0	0	0	10,795	-2,158	0	0	2,332	0	2,332	10,513
40+50	4050.00	50.00	123.69	28.00	0.00	0.00	0.00	0.00	221	52	0	0	0	0	11,016	-2,158	0	0	2,332	0	2,332	10,682
41+00	4100.00	50.00	123.75	28.00	0.00	0.00	0.00	0.00	229	52	0	0	0	0	11,245	-2,158	0	0	2,332	0	2,332	10,859
41+50	4150.00	50.00	123.38	27.00	0.00	0.00	0.00	0.00	229	51	0	0	0	0	11,474	-2,158	0	0	2,332	0	2,332	11,037
42+00	4200.00	50.00	130.01	25.50	0.00	0.00	0.00	0.00	235	49	0	0	0	0	11,709	-2,158	0	0	2,332	0	2,332	11,223
42+50	4250.00	50.00	129.94	19.00	0.00	0.00	0.00	0.00	241	41	0	0	0	0	11,950	-2,158	0	0	2,332	0	2,332	11,423
43+00	4300.00	50.00	120.59	19.00	0.00	0.00	0.00	0.00	232	35	0	0	0	0	12,182	-2,158	0	0	2,332	0	2,332	11,620
43+50	4350.00	50.00	117.97	19.00	0.08	0.00	0.00	0.00	221	35	0	0	0	0	12,403	-2,158	0	0	2,332	0	2,332	11,806
44+00	4400.00	50.00	126.72	19.00	0.00	0.00	0.00	140.00	227	35	0	0	0	130	12,630	-2,288	0	0	2,462	0	2,462	12,128
44+50	4450.00	50.00	136.25	34.00	0.00	0.00	0.00	140.00	243	49	0	0	0	259	12,873	-2,547	0	0	2,721	0	2,721	12,581
45+00	4500.00	50.00	124.56	24.00	0.03	0.00	0.00	140.00	241	54	0	0	0	259	13,114	-2,806	0	0	2,980	0	2,980	13,027
45+50	4550.00	50.00	121.75	24.00	0.05	0.00	0.00	140.00	228	44	0	0	0	259	13,342	-3,065	0	0	3,239	0	3,239	13,470
46+00	4600.00	50.00	104.85	26.00	1.47	0.00	0.00	140.00	210	46	1	0	0	259	13,552	-3,323	0	0	3,498	0	3,498	13,892
46+50	4650.00	50.00	96.92	20.00	3.98	0.00	0.00	140.00	187	43	5	0	0	259	13,739	-3,577	0	0	3,757	0	3,757	14,290
47+00	4700.00	50.00	92.18	19.00	8.20	0.00	0.00	140.00	175	36	11	0	0	259	13,914	-3,825	0	0	4,016	0	4,016	14,677
47+50	4750.00	50.00	102.58	19.00	5.23	0.00	0.00	140.00	180	35	12	0	0	259	14,094	-4,072	0	0	4,275	0	4,275	15,069
48+00	4800.00	50.00	116.97	19.00	1.60	0.00	0.00	140.00	203	35	6	0	0	259	14,297	-4,325	0	0	4,534	0	4,534	15,490

DIVISION 2 - BB-EB

STATION	REAL STATION	DISTANCE	AREA (SF)						INCREMENTAL VOL (CY) (UNADJUSTED)						CUMULATIVE VOL (CY)							
			CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	MARSH EXC	ROCK EXC	EBS	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	MARSH EXC	ROCK EXC	EBS	CUT	EXPANDED FILL	EXPANDED MARSH BACKFILL	EXPANDED ROCK	EXPANDED EBS BACKFILL	REDUCED MARSH IN FILL	REDUCED EBS IN FILL	MASS ORDINATE
															1.00	1.00	1.00	1.00	1.00	1.00	1.00	
									NOTE 1	NOTE 2	NOTE 3				NOTE 1		NOTE 4		NOTE 5	NOTE 6	NOTE 7	NOTE 8
48+50	4850.00	50.00	136.61	19.00	0.00	0.00	0.00	0.00	235	35	1	0	0	130	14,532	-4,454	0	0	4,664	0	4,664	15,819
49+00	4900.00	50.00	137.13	19.00	0.00	0.00	0.00	0.00	253	35	0	0	0	0	14,785	-4,454	0	0	4,664	0	4,664	16,037
49+50	4950.00	50.00	120.09	19.00	0.00	0.00	0.00	0.00	238	35	0	0	0	0	15,023	-4,454	0	0	4,664	0	4,664	16,240
50+00	5000.00	50.00	106.31	19.00	0.87	0.00	0.00	0.00	210	35	1	0	0	0	15,233	-4,453	0	0	4,664	0	4,664	16,414
50+50	5050.00	50.00	102.14	19.00	7.45	0.00	0.00	0.00	193	35	8	0	0	0	15,426	-4,445	0	0	4,664	0	4,664	16,564
51+00	5100.00	50.00	99.75	19.00	4.61	0.00	0.00	0.00	187	35	11	0	0	0	15,613	-4,434	0	0	4,664	0	4,664	16,705
51+50	5150.00	50.00	92.82	19.00	9.87	0.00	0.00	0.00	178	35	13	0	0	0	15,791	-4,421	0	0	4,664	0	4,664	16,835
52+00	5200.00	50.00	96.70	19.00	9.25	0.00	0.00	0.00	175	35	18	0	0	0	15,966	-4,403	0	0	4,664	0	4,664	16,957
52+50	5250.00	50.00	98.94	19.00	8.13	0.00	0.00	0.00	181	35	16	0	0	0	16,147	-4,387	0	0	4,664	0	4,664	17,087
53+00	5300.00	50.00	101.96	19.00	6.99	0.00	0.00	0.00	186	35	14	0	0	0	16,333	-4,373	0	0	4,664	0	4,664	17,224
53+50	5350.00	50.00	107.34	19.00	1.98	0.00	0.00	0.00	194	35	8	0	0	0	16,527	-4,365	0	0	4,664	0	4,664	17,375
54+00	5400.00	50.00	122.81	22.00	0.72	0.00	0.00	0.00	213	38	2	0	0	0	16,740	-4,363	0	0	4,664	0	4,664	17,548
54+50	5450.00	50.00	125.98	23.50	1.32	0.00	0.00	0.00	230	42	2	0	0	0	16,970	-4,361	0	0	4,664	0	4,664	17,734
55+00	5500.00	50.00	118.42	25.00	0.37	0.00	0.00	0.00	226	45	2	0	0	0	17,196	-4,359	0	0	4,664	0	4,664	17,913
55+50	5550.00	50.00	101.66	25.00	0.05	0.00	0.00	0.00	204	46	0	0	0	0	17,400	-4,359	0	0	4,664	0	4,664	18,071
56+00	5600.00	50.00	115.92	34.00	0.00	0.00	0.00	0.00	201	55	0	0	0	0	17,601	-4,359	0	0	4,664	0	4,664	18,217
56+50	5650.00	50.00	123.56	34.00	0.00	0.00	0.00	0.00	222	63	0	0	0	0	17,823	-4,359	0	0	4,664	0	4,664	18,376
57+00	5700.00	50.00	118.66	25.00	0.00	0.00	0.00	0.00	224	55	0	0	0	0	18,047	-4,359	0	0	4,664	0	4,664	18,545
57+50	5750.00	50.00	124.64	25.00	0.01	0.00	0.00	0.00	225	46	0	0	0	0	18,272	-4,359	0	0	4,664	0	4,664	18,724
58+00	5800.00	50.00	125.41	22.50	0.01	0.00	0.00	0.00	232	44	0	0	0	0	18,504	-4,359	0	0	4,664	0	4,664	18,912
58+50	5850.00	50.00	135.04	19.00	0.37	0.00	0.00	0.00	241	38	0	0	0	0	18,745	-4,359	0	0	4,664	0	4,664	19,115
59+00	5900.00	50.00	98.56	19.00	3.84	0.00	0.00	0.00	216	35	4	0	0	0	18,961	-4,355	0	0	4,664	0	4,664	19,292
59+50	5950.00	50.00	94.45	19.00	1.29	0.00	0.00	0.00	179	35	5	0	0	0	19,140	-4,350	0	0	4,664	0	4,664	19,431
60+00	6000.00	50.00	96.75	28.50	0.17	0.00	0.00	0.00	177	44	1	0	0	0	19,317	-4,349	0	0	4,664	0	4,664	19,563
60+50	6050.00	50.00	105.02	40.50	0.03	0.00	0.00	0.00	187	64	0	0	0	0	19,504	-4,349	0	0	4,664	0	4,664	19,686
61+00	6100.00	50.00	131.75	54.00	0.01	0.00	0.00	0.00	219	88	0	0	0	0	19,723	-4,349	0	0	4,664	0	4,664	19,817
61+38.6	6138.60	38.60	92.78	64.50	0.00	0.00	0.00	0.00	161	85	0	0	0	0	19,884	-4,349	0	0	4,664	0	4,664	19,893

DIVISION 3 - BB-WB

STATION	REAL STATION	DISTANCE	AREA (SF)						INCREMENTAL VOL (CY) (UNADJUSTED)						CUMULATIVE VOL (CY)							
			CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	MARSH EXC	ROCK EXC	EBS	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	MARSH EXC	ROCK EXC	EBS	CUT	EXPANDED FILL	EXPANDED MARSH BACKFILL	EXPANDED ROCK	EXPANDED EBS BACKFILL	REDUCED MARSH IN FILL	REDUCED EBS IN FILL	MASS ORDINATE
															1.00	1.00	1.00	1.00	1.00	1.00	1.00	
									NOTE 1	NOTE 2	NOTE 3				NOTE 1		NOTE 4		NOTE 5	NOTE 6	NOTE 7	NOTE 8
10+37.85	1037.85	0.00	52.12	33.20	0.00	0.00	0.00	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10+50	1050.00	12.15	41.74	20.75	0.00	0.00	0.00	0.00	21	12	0	0	0	0	21	0	0	0	0	0	0	9
11+00	1100.00	50.00	25.56	22.41	0.05	0.00	0.00	0.00	62	40	0	0	0	0	83	0	0	0	0	0	0	31
11+50	1150.00	50.00	23.23	12.45	0.09	0.00	0.00	0.00	45	32	0	0	0	0	128	0	0	0	0	0	0	44
12+00	1200.00	50.00	23.38	12.45	0.00	0.00	0.00	0.00	43	23	0	0	0	0	171	0	0	0	0	0	0	64
12+50	1250.00	50.00	26.33	12.45	0.00	0.00	0.00	0.00	46	23	0	0	0	0	217	0	0	0	0	0	0	87
13+00	1300.00	50.00	24.99	9.13	0.00	0.00	0.00	0.00	48	20	0	0	0	0	265	0	0	0	0	0	0	115
13+50	1350.00	50.00	62.97	19.00	0.00	0.00	0.00	0.00	81	26	0	0	0	0	346	0	0	0	0	0	0	170
14+00	1400.00	50.00	62.43	19.00	0.00	0.00	0.00	0.00	116	35	0	0	0	0	462	0	0	0	0	0	0	251
14+50	1450.00	50.00	96.20	19.00	0.00	0.00	0.00	0.00	147	35	0	0	0	0	609	0	0	0	0	0	0	363
15+00	1500.00	50.00	79.04	19.00	0.00	0.00	0.00	0.00	162	35	0	0	0	0	771	0	0	0	0	0	0	490
15+50	1550.00	50.00	77.39	19.00	0.00	0.00	0.00	0.00	145	35	0	0	0	0	916	0	0	0	0	0	0	600
16+00	1600.00	50.00	104.81	19.00	0.00	0.00	0.00	0.00	169	35	0	0	0	0	1,085	0	0	0	0	0	0	734
16+50	1650.00	50.00	76.07	19.00	0.00	0.00	0.00	0.00	167	35	0	0	0	0	1,252	0	0	0	0	0	0	866
17+00	1700.00	50.00	74.18	19.00	0.00	0.00	0.00	0.00	139	35	0	0	0	0	1,391	0	0	0	0	0	0	970
17+50	1750.00	50.00	73.47	19.00	0.00	0.00	0.00	0.00	137	35	0	0	0	0	1,528	0	0	0	0	0	0	1,072
18+00	1800.00	50.00	74.12	19.00	0.04	0.00	0.00	0.00	137	35	0	0	0	0	1,665	0	0	0	0	0	0	1,174
18+50	1850.00	50.00	70.25	19.00	0.00	0.00	0.00	0.00	134	35	0	0	0	0	1,799	0	0	0	0	0	0	1,273
19+00	1900.00	50.00	68.92	19.00	0.00	0.00	0.00	0.00	129	35	0	0	0	0	1,928	0	0	0	0	0	0	1,367
19+50	1950.00	50.00	65.76	19.00	0.00	0.00	0.00	0.00	125	35	0	0	0	0	2,053	0	0	0	0	0	0	1,457
20+00	2000.00	50.00	63.12	19.00	0.00	0.00	0.00	0.00	119	35	0	0	0	0	2,172	0	0	0	0	0	0	1,541
20+50	2050.00	50.00	116.50	19.00	0.00	0.00	0.00	0.00	166	35	0	0	0	0	2,338	0	0	0	0	0	0	1,672
21+00	2100.00	50.00	56.97	19.00	0.00	0.00	0.00	0.00	161	35	0	0	0	0	2,499	0	0	0	0	0	0	1,798
21+50	2150.00	50.00	60.38	19.00	0.00	0.00	0.00	0.00	109	35	0	0	0	0	2,608	0	0	0	0	0	0	1,872
22+00	2200.00	50.00	62.86	19.00	0.00	0.00	0.00	0.00	114	35	0	0	0	0	2,722	0	0	0	0	0	0	1,951
22+50	2250.00	50.00	62.34	19.00	0.00	0.00	0.00	0.00	116	35	0	0	0	0	2,838	0	0	0	0	0	0	2,032
23+00	2300.00	50.00	62.51	19.00	0.00	0.00	0.00	0.00	116	35	0	0	0	0	2,954	0	0	0	0	0	0	2,113
23+50	2350.00	50.00	58.53	19.00	0.00	0.00	0.00	0.00	112	35	0	0	0	0	3,066	0	0	0	0	0	0	2,190
24+00	2400.00	50.00	60.49	19.00	0.00	0.00	0.00	0.00	110	35	0	0	0	0	3,176	0	0	0	0	0	0	2,265
24+50	2450.00	50.00	64.19	19.00	0.00	0.00	0.00	0.00	115	35	0	0	0	0	3,291	0	0	0	0	0	0	2,345
25+00	2500.00	50.00	66.99	19.00	0.00	0.00	0.00	0.00	121	35	0	0	0	0	3,412	0	0	0	0	0	0	2,431
25+50	2550.00	50.00	62.59	19.00	0.00	0.00	0.00	0.00	120	35	0	0	0	0	3,532	0	0	0	0	0	0	2,516

DIVISION 3 - BB-WB

STATION	REAL STATION	DISTANCE	AREA (SF)						INCREMENTAL VOL (CY) (UNADJUSTED)						CUMULATIVE VOL (CY)							
			CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	MARSH EXC	ROCK EXC	EBS	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	MARSH EXC	ROCK EXC	EBS	CUT	EXPANDED FILL	EXPANDED MARSH BACKFILL	EXPANDED ROCK	EXPANDED EBS BACKFILL	REDUCED MARSH IN FILL	REDUCED EBS IN FILL	MASS ORDINATE
															1.00	1.00	1.00	1.00	1.00	1.00	1.00	
									NOTE 1	NOTE 2	NOTE 3				NOTE 1		NOTE 4		NOTE 5	NOTE 6	NOTE 7	NOTE 8
26+00	2600.00	50.00	63.24	19.00	0.00	0.00	0.00	82.00	117	35	0	0	0	76	3,649	-76	0	0	76	0	76	2,674
26+50	2650.00	50.00	56.86	19.00	0.02	0.00	0.00	82.00	111	35	0	0	0	152	3,760	-228	0	0	228	0	228	2,902
27+00	2700.00	50.00	52.96	19.00	0.96	0.00	0.00	82.00	102	35	1	0	0	152	3,862	-379	0	0	380	0	380	3,120
27+50	2750.00	50.00	53.16	19.00	0.52	0.00	0.00	82.00	98	35	1	0	0	152	3,960	-530	0	0	532	0	532	3,334
28+00	2800.00	50.00	52.58	19.00	1.08	0.00	0.00	82.00	98	35	1	0	0	152	4,058	-681	0	0	684	0	684	3,548
28+50	2850.00	50.00	57.94	19.00	1.32	0.00	0.00	82.00	102	35	2	0	0	152	4,160	-831	0	0	836	0	836	3,765
29+00	2900.00	50.00	63.06	19.00	0.00	0.00	0.00	82.00	112	35	1	0	0	152	4,272	-982	0	0	988	0	988	3,993
29+50	2950.00	50.00	69.22	19.00	0.00	0.00	0.00	82.00	122	35	0	0	0	152	4,394	-1,134	0	0	1,140	0	1,140	4,232
30+00	3000.00	50.00	64.63	19.00	0.00	0.00	0.00	82.00	124	35	0	0	0	152	4,518	-1,286	0	0	1,292	0	1,292	4,473
30+50	3050.00	50.00	64.80	19.00	0.00	0.00	0.00	0.00	120	35	0	0	0	76	4,638	-1,362	0	0	1,368	0	1,368	4,634
31+00	3100.00	50.00	74.82	19.00	0.00	0.00	0.00	0.00	129	35	0	0	0	0	4,767	-1,362	0	0	1,368	0	1,368	4,728
31+50	3150.00	50.00	72.85	19.00	0.00	0.00	0.00	0.00	137	35	0	0	0	0	4,904	-1,362	0	0	1,368	0	1,368	4,830
32+00	3200.00	50.00	68.38	19.00	0.00	0.00	0.00	0.00	131	35	0	0	0	0	5,035	-1,362	0	0	1,368	0	1,368	4,926
32+50	3250.00	50.00	65.25	19.00	0.00	0.00	0.00	0.00	124	35	0	0	0	0	5,159	-1,362	0	0	1,368	0	1,368	5,015
33+00	3300.00	50.00	64.83	19.00	0.00	0.00	0.00	0.00	120	35	0	0	0	0	5,279	-1,362	0	0	1,368	0	1,368	5,100
33+50	3350.00	50.00	56.95	19.00	1.75	0.00	0.00	0.00	113	35	2	0	0	0	5,392	-1,360	0	0	1,368	0	1,368	5,176
34+00	3400.00	50.00	54.00	19.00	0.66	0.00	0.00	0.00	103	35	2	0	0	0	5,495	-1,358	0	0	1,368	0	1,368	5,242
34+50	3450.00	50.00	53.13	19.00	0.40	0.00	0.00	0.00	99	35	1	0	0	0	5,594	-1,357	0	0	1,368	0	1,368	5,305
35+00	3500.00	50.00	48.21	19.00	0.43	0.00	0.00	0.00	94	35	1	0	0	0	5,688	-1,356	0	0	1,368	0	1,368	5,363
35+50	3550.00	50.00	48.81	19.00	0.04	0.00	0.00	0.00	90	35	0	0	0	0	5,778	-1,356	0	0	1,368	0	1,368	5,418
36+00	3600.00	50.00	49.76	19.00	0.00	0.00	0.00	0.00	91	35	0	0	0	0	5,869	-1,356	0	0	1,368	0	1,368	5,474
36+50	3650.00	50.00	48.25	19.00	0.00	0.00	0.00	0.00	91	35	0	0	0	0	5,960	-1,356	0	0	1,368	0	1,368	5,530
37+00	3700.00	50.00	50.01	19.00	0.00	0.00	0.00	0.00	91	35	0	0	0	0	6,051	-1,356	0	0	1,368	0	1,368	5,586
37+50	3750.00	50.00	50.87	19.00	0.00	0.00	0.00	0.00	93	35	0	0	0	0	6,144	-1,356	0	0	1,368	0	1,368	5,644
38+00	3800.00	50.00	50.48	19.00	0.42	0.00	0.00	0.00	94	35	0	0	0	0	6,238	-1,356	0	0	1,368	0	1,368	5,703
38+50	3850.00	50.00	55.10	19.00	0.84	0.00	0.00	0.00	98	35	1	0	0	0	6,336	-1,355	0	0	1,368	0	1,368	5,765
39+00	3900.00	50.00	109.67	19.00	0.00	0.00	0.00	0.00	153	35	1	0	0	0	6,489	-1,354	0	0	1,368	0	1,368	5,882
39+50	3950.00	50.00	125.47	19.00	0.00	0.00	0.00	0.00	218	35	0	0	0	0	6,707	-1,354	0	0	1,368	0	1,368	6,065
40+00	4000.00	50.00	68.13	19.00	0.03	0.00	0.00	0.00	179	35	0	0	0	0	6,886	-1,354	0	0	1,368	0	1,368	6,209
40+50	4050.00	50.00	62.67	19.00	0.32	0.00	0.00	0.00	121	35	0	0	0	0	7,007	-1,354	0	0	1,368	0	1,368	6,295
41+00	4100.00	50.00	61.97	19.00	0.32	0.00	0.00	0.00	115	35	1	0	0	0	7,122	-1,353	0	0	1,368	0	1,368	6,374
41+50	4150.00	50.00	61.25	19.00	0.27	0.00	0.00	0.00	114	35	1	0	0	0	7,236	-1,352	0	0	1,368	0	1,368	6,452
42+00	4200.00	50.00	60.59	19.00	0.70	0.00	0.00	0.00	113	35	1	0	0	0	7,349	-1,351	0	0	1,368	0	1,368	6,529
42+50	4250.00	50.00	62.60	19.00	0.27	0.00	0.00	0.00	114	35	1	0	0	0	7,463	-1,350	0	0	1,368	0	1,368	6,607
43+00	4300.00	50.00	60.57	19.00	0.37	0.00	0.00	0.00	114	35	1	0	0	0	7,577	-1,349	0	0	1,368	0	1,368	6,685
43+50	4350.00	50.00	61.60	19.00	0.28	0.00	0.00	0.00	113	35	1	0	0	0	7,690	-1,348	0	0	1,368	0	1,368	6,762
44+00	4400.00	50.00	64.19	19.00	0.35	0.00	0.00	82.00	116	35	1	0	0	76	7,806	-1,423	0	0	1,444	0	1,444	6,918
44+50	4450.00	50.00	71.46	19.00	0.00	0.00	0.00	82.00	126	35	0	0	0	152	7,932	-1,575	0	0	1,596	0	1,596	7,161
45+00	4500.00	50.00	65.34	19.00	0.25	0.00	0.00	82.00	127	35	0	0	0	152	8,059	-1,727	0	0	1,748	0	1,748	7,405
45+50	4550.00	50.00	63.56	19.00	0.34	0.00	0.00	82.00	119	35	1	0	0	152	8,178	-1,878	0	0	1,900	0	1,900	7,640
46+00	4600.00	50.00	64.28	19.00	0.08	0.00	0.00	82.00	118	35	0	0	0	152	8,296	-2,030	0	0	2,052	0	2,052	7,875
46+50	4650.00	50.00	77.78	19.00	0.00	0.00	0.00	82.00	132	35	0	0	0	152	8,428	-2,182	0	0	2,204	0	2,204	8,124
47+00	4700.00	50.00	71.06	19.00	0.00	0.00	0.00	82.00	138	35	0	0	0	152	8,566	-2,334	0	0	2,356	0	2,356	8,379
47+50	4750.00	50.00	71.84	19.00	0.00	0.00	0.00	82.00	132	35	0	0	0	152	8,698	-2,486	0	0	2,508	0	2,508	8,628
48+00	4800.00	50.00	69.90	19.00	0.00	0.00	0.00	82.00	131	35	0	0	0	152	8,829	-2,638	0	0	2,660	0	2,660	8,876
48+50	4850.00	50.00	72.71	19.00	0.00	0.00	0.00	0.00	132	35	0	0	0	76	8,961	-2,714	0	0	2,736	0	2,736	9,049
49+00	4900.00	50.00	75.96	19.00	0.00	0.00	0.00	0.00	138	35	0	0	0	0	9,099	-2,714	0	0	2,736	0	2,736	9,152
49+50	4950.00	50.00	81.63	19.00	0.00	0.00	0.00	0.00	146	35	0	0	0	0	9,245	-2,714	0	0	2,736	0	2,736	9,263
50+00	5000.00	50.00	79.40	19.00	0.00	0.00	0.00	0.00	149	35	0	0	0	0	9,394	-2,714	0	0	2,736	0	2,736	9,377
50+50	5050.00	50.00	76.03	19.00	0.00	0.00	0.00	0.00	144	35	0	0	0	0	9,538	-2,714	0	0	2,736	0	2,736	9,486
51+00	5100.00	50.00	77.11	19.00	0.00	0.00	0.00	0.00	142	35	0	0	0	0	9,680	-2,714	0	0	2,736	0	2,736	9,593
51+50	5150.00	50.00	74.46	19.00	0.12	0.00	0.00	0.00	140	35	0	0	0	0	9,820	-2,714	0	0	2,736	0	2,736	9,698
52+00	5200.00	50.00	72.82	19.00	4.35	0.00	0.00	0.00	136	35	4	0	0	0	9,956	-2,710	0	0	2,736	0	2,736	9,795
52+50	5250.00	50.00	78.75	19.00	0.06	0.00	0.00	0.00	140	35	4	0	0	0	10,096	-2,706	0	0	2,736	0	2,736	9,896
53+00	5300.00	50.00	79.50	19.00	0.00	0.00	0.00	0.00	147	35	0	0	0	0	10,243	-2,706	0	0	2,736	0	2,736	10,008
53+50	5350.00	50.00	78.03	19.00	0.13	0.00	0.00	0.00	146	35	0	0	0	0	10,389	-2,706	0	0	2,736	0	2,736	10,119
54+00	5400.00	50.00	77.58	19.00	0.59	0.00	0.00	0.00	144	35	1	0	0	0	10,533	-2,705	0	0	2,736	0	2,736	10,227
54+50	5450.00	50.00	71.81	19.00	0.74	0.00	0.00	0.00	138	35	1	0	0	0	10,671	-2,704	0	0	2,736	0	2,736	10,329
55+00	5500.00	50.00	61.99	19.00	1.05	0.00	0.00	0.00	124	35	2	0	0	0	10,795	-2,702	0	0	2,736	0	2,736	10,416
55+50	5550.00	50.00	52.59	19.00	3.35	0.00	0.00	0.00	106	35	4	0	0	0	10,901	-2,698	0	0	2,736	0	2,736	10,483
56+00	5600.00	50.00	53.64	19.00	2.91	0.00	0.00	0.00	98	35	6	0	0	0	10,999	-2,692	0	0	2,736	0	2,736	10,540
56+50	5650.00	50.00	53.35	19.00	0.00	0.00	0.00	0.00	99	35	3	0	0	0	11,098	-2,689	0	0	2,736	0	2,736	10,601
57+00	5700.00	50.00	59.46	19.00	3.65	0.00	0.00	0.00	104	35	3	0	0	0	11,202	-2,686	0	0	2,736	0	2,736	10,667
57+50	5750.00	50.00	65.99	19.00	0.59	0.00	0.00	0.00	116	35	4	0	0	0	11,318	-2,682	0	0	2,736	0	2,736	10,744
58+00	5800.00	50.00	69.20	19.00	0.07	0.00	0.00	0.00	125	35	1	0	0	0	11,443	-2,681	0	0	2,736	0	2,736	10,833
58+50	5850.00	50.00	71.39	19.00	0.00	0.00	0.00	0.00	130	35	0	0	0	0	11,573	-2,681	0	0	2,736	0	2,736	10,928
59+00	5900.00	50.00	107.70	19.00	0.00	0.00	0.00	0.00	166	35	0	0	0	0	11,739	-2,681	0	0	2,736	0	2,736	11,059
59+50	5950.00	50.00	70.37	19.00	0.00	0.00	0.00	0.00	165	35	0	0	0	0	11,904	-2,681	0	0	2,736	0	2,736	11,189
60+00	6000.00	50.00	56.52	28.50	0.52	0.00	0.00	0.00	117	44	0	0	0	0	12,021	-2,681	0	0	2,736	0	2,736	11,262
60+50	6050.00	50.00	66.90	28.50	0.00	0.00	0.00	0.00	114	53	0	0	0	0	12,135	-2,681	0	0	2,736	0	2,736	11,323
61+00	6100.00	50.00	63.12	28.50	0.00	0.00	0.00	0.00	120	53	0	0	0	0	12,255	-2,681	0	0	2,736	0	2,736	11,390
61+41.4	6141.40	41.40	61.86	28.50	0.00	0.00	0.00	0.00	96	44	0	0	0	0	12,351	-2,681	0	0	2,736	0	2,736	11,442

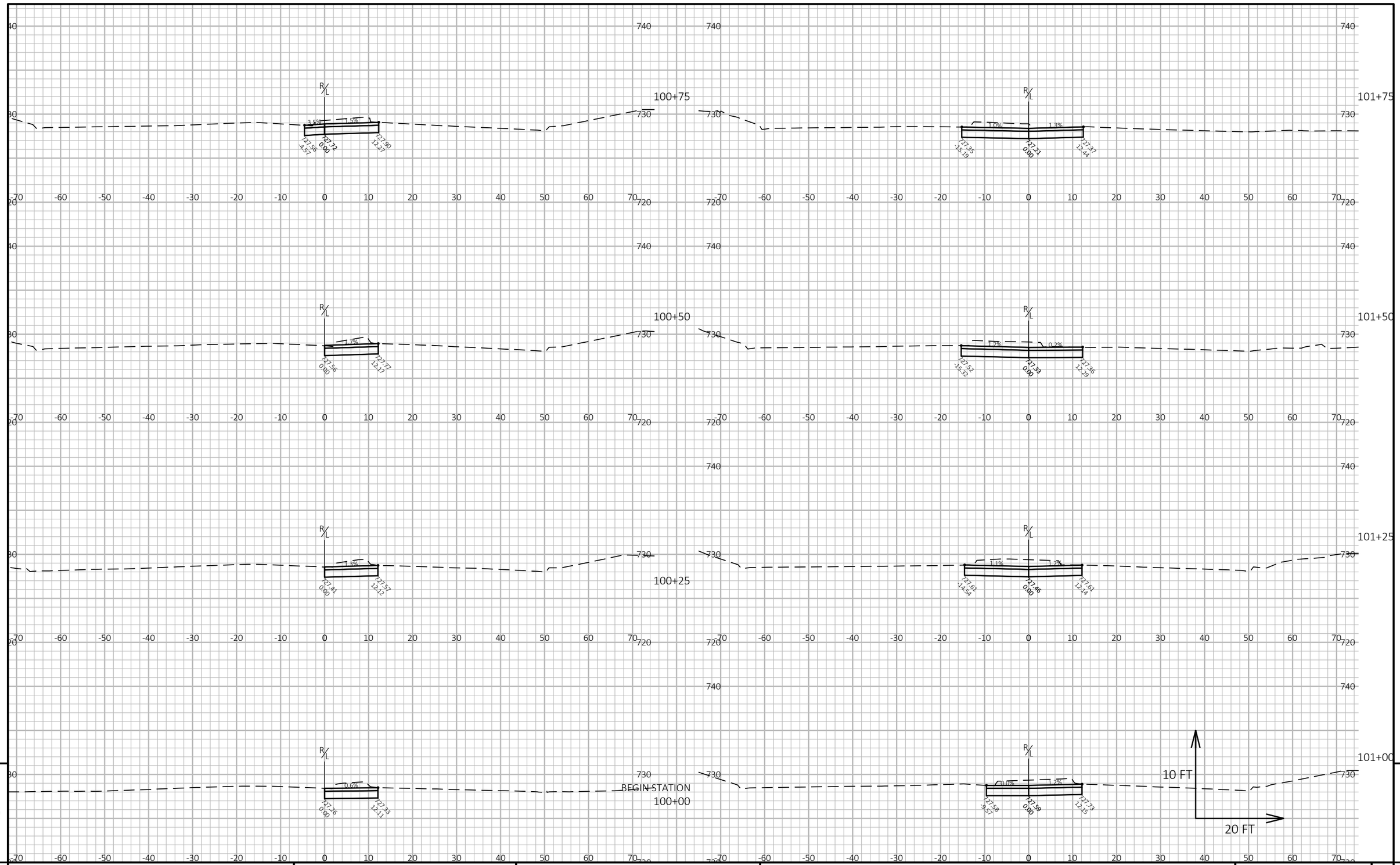
DIVISION 4 - X-OVER_WEST

STATION	REAL STATION	DISTANCE	AREA (SF)						INCREMENTAL VOL (CY) (UNADJUSTED)						CUMULATIVE VOL (CY)							
			CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	MARSH EXC	ROCK EXC	EBS	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	MARSH EXC	ROCK EXC	EBS	CUT	EXPANDED FILL	EXPANDED MARSH BACKFILL	EXPANDED ROCK	EXPANDED EBS BACKFILL	REDUCED MARSH IN FILL	REDUCED EBS IN FILL	MASS ORDINATE
															1.00	1.00	1.00	1.00	1.00	1.00	1.00	
									NOTE 1	NOTE 2	NOTE 3				NOTE 1		NOTE 4		NOTE 5	NOTE 6	NOTE 7	NOTE 8
100+00.213	10000.21	0.00	4.69	0.00	0.06	0.00	0.00	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0
100+25	10025.00	24.79	4.77	0.00	0.09	0.00	0.00	0.00	4	0	0	0	0	0	4	0	0	0	0	0	0	4
100+50	10050.00	25.00	4.70	0.00	0.23	0.00	0.00	0.00	4	0	0	0	0	0	8	0	0	0	0	0	0	8
100+75	10075.00	25.00	6.39	0.00	0.13	0.00	0.00	0.00	5	0	0	0	0	0	13	0	0	0	0	0	0	13
101+00	10100.00	25.00	10.60	0.00	0.04	0.00	0.00	0.00	8	0	0	0	0	0	21	0	0	0	0	0	0	21
101+25	10125.00	25.00	13.78	1.50	0.00	0.00	0.00	0.00	11	1	0	0	0	0	32	0	0	0	0	0	0	31
101+50	10150.00	25.00	10.28	3.50	0.00	0.00	0.00	0.00	11	2	0	0	0	0	43	0	0	0	0	0	0	40
101+75	10175.00	25.00	7.68	5.00	0.08	0.00	0.00	0.00	8	4	0	0	0	0	51	0	0	0	0	0	0	44
102+00	10200.00	25.00	6.89	6.00	0.00	0.00	0.00	0.00	7	5	0	0	0	0	58	0	0	0	0	0	0	46
102+25	10225.00	25.00	4.45	8.00	0.00	0.00	0.00	0.00	5	6	0	0	0	0	63	0	0	0	0	0	0	45
102+50	10250.00	25.00	5.27	14.00	0.00	0.00	0.00	0.00	4	10	0	0	0	0	67	0	0	0	0	0	0	39
102+75	10275.00	25.00	5.56	14.00	0.00	0.00	0.00	0.00	5	13	0	0	0	0	72	0	0	0	0	0	0	31
103+00	10300.00	25.00	9.78	4.50	0.00	0.00	0.00	0.00	7	9	0	0	0	0	79	0	0	0	0	0	0	29
103+25	10325.00	25.00	7.13	0.00	0.00	0.00	0.00	0.00	8	2	0	0	0	0	87	0	0	0	0	0	0	35
103+50	10350.00	25.00	7.50	0.00	0.00	0.00	0.00	0.00	7	0	0	0	0	0	94	0	0	0	0	0	0	42
103+75	10375.00	25.00	8.22	0.00	0.00	0.00	0.00	0.00	7	0	0	0	0	0	101	0	0	0	0	0	0	49
104+00	10400.00	25.00	7.56	0.00	0.00	0.00	0.00	0.00	7	0	0	0	0	0	108	0	0	0	0	0	0	56
104+25	10425.00	25.00	5.84	0.00	0.00	0.00	0.00	0.00	6	0	0	0	0	0	114	0	0	0	0	0	0	62
104+50	10450.00	25.00	6.66	0.00	0.00	0.00	0.00	0.00	6	0	0	0	0	0	120	0	0	0	0	0	0	68
104+61.68	10461.68	11.68	9.24	0.00	0.00	0.00	0.00	0.00	3	0	0	0	0	0	123	0	0	0	0	0	0	71
104+74.997	10475.00	13.32	0.37	0.00	0.24	0.00	0.00	0.00	2	0	0	0	0	0	125	0	0	0	0	0	0	73
104+75	10475.00	0.00	0.36	0.00	0.24	0.00	0.00	0.00	0	0	0	0	0	0	125	0	0	0	0	0	0	73

DIVISION 4 - X-OVER_EAST

STATION	REAL STATION	DISTANCE	AREA (SF)						INCREMENTAL VOL (CY) (UNADJUSTED)						CUMULATIVE VOL (CY)							
			CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	MARSH EXC	ROCK EXC	EBS	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	MARSH EXC	ROCK EXC	EBS	CUT	EXPANDED FILL	EXPANDED MARSH BACKFILL	EXPANDED ROCK	EXPANDED EBS BACKFILL	REDUCED MARSH IN FILL	REDUCED EBS IN FILL	MASS ORDINATE
															1.00	1.00	1.00	1.00	1.00	1.00	1.00	
									NOTE 1	NOTE 2	NOTE 3				NOTE 1		NOTE 4		NOTE 5	NOTE 6	NOTE 7	NOTE 8
200+00	20000.00	0.00	19.77	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0
200+25	20025.00	25.00	19.77	0.00	0.00	0.00	0.00	0.00	18	0	0	0	0	0	18	0	0	0	0	0	0	18
200+43.812	20043.81	18.81	19.77	0.00	0.00	0.00	0.00	0.00	14	0	0	0	0	0	32	0	0	0	0	0	0	32
200+50	20050.00	6.19	19.77	0.00	0.00	0.00	0.00	0.00	5	0	0	0	0	0	37	0	0	0	0	0	0	37
200+75	20075.00	25.00	22.10	0.00	0.00	0.00	0.00	0.00	19	0	0	0	0	0	56	0	0	0	0	0	0	56
201+00	20100.00	25.00	24.42	0.00	0.00	0.00	0.00	0.00	22	0	0	0	0	0	78	0	0	0	0	0	0	78
201+25	20125.00	25.00	27.91	0.00	0.00	0.00	0.00	0.00	24	0	0	0	0	0	102	0	0	0	0	0	0	102
201+50	20150.00	25.00	30.24	0.00	0.00	0.00	0.00	0.00	27	0	0	0	0	0	129	0	0	0	0	0	0	129
201+75	20175.00	25.00	31.40	0.00	0.00	0.00	0.00	0.00	29	0	0	0	0	0	158	0	0	0	0	0	0	158
202+00	20200.00	25.00	31.40	0.00	0.00	0.00	0.00	0.00	29	0	0	0	0	0	187	0	0	0	0	0	0	187
202+25	20225.00	25.00	31.40	0.00	0.00	0.00	0.00	0.00	29	0	0	0	0	0	216	0	0	0	0	0	0	216
202+50	20250.00	25.00	31.40	0.00	0.00	0.00	0.00	0.00	29	0	0	0	0	0	245	0	0	0	0	0	0	245
202+75	20275.00	25.00	31.40	0.00	0.00	0.00	0.00	0.00	29	0	0	0	0	0	274	0	0	0	0	0	0	274
203+00	20300.00	25.00	31.40	0.00	0.00	0.00	0.00	0.00	29	0	0	0	0	0	303	0	0	0	0	0	0	303
203+25	20325.00	25.00	30.24	0.00	0.00	0.00	0.00	0.00	29	0	0	0	0	0	332	0	0	0	0	0	0	332
203+50	20350.00	25.00	26.75	0.00	0.00	0.00	0.00	0.00	26	0	0	0	0	0	358	0	0	0	0	0	0	358
203+75	20375.00	25.00	23.26	0.00	0.00	0.00	0.00	0.00	23	0	0	0	0	0	381	0	0	0	0	0	0	381
204+00	20400.00	25.00	19.77	0.00	0.00	0.00	0.00	0.00	20	0	0	0	0	0	401	0	0	0	0	0	0	401
204+25	20425.00	25.00	16.28	0.00	0.00	0.00	0.00	0.00	17	0	0	0	0	0	418	0	0	0	0	0	0	418
204+50	20450.00	25.00	12.79	0.00	0.00	0.00	0.00	0.00	13	0	0	0	0	0	431	0	0	0	0	0	0	431
204+75	20475.00	25.00	11.63	0.00	0.00	0.00	0.00	0.00	11	0	0	0	0	0	442	0	0	0	0	0	0	442
205+00	20500.00	25.00	11.63	0.00	0.00	0.00	0.00	0.00	11	0	0	0	0	0	453	0	0	0	0	0	0	453
205+25	20525.00	25.00	11.63	0.00	0.00	0.00	0.00	0.00	11	0	0	0	0	0	464	0	0	0	0	0	0	464

Notes:		
1 - CUT	CUT INCLUDES SALVAGED/UNUSABLE PAVEMENT MATERIAL	
2 - SALVAGED/UNUSABL	THIS DOES NOT SHOW UP IN CROSS SECTIONS	
3 - FILL	DOES NOT INCLUDE UNUSABLE PAVEMENT EXC VOLUME	
4 - EXPANDED MARSH B	WILL BE BACKFILLED WITH GRANULAR BACKFILL (OR CUT, OR BORROW)	NOTE 4 - SELECT ONE BASED ON INPUT DIALOG SELECTION
5 - EXPANDED EBS	WILL BE BACKFILLED WITH GRANULAR BACKFILL (OR CUT, OR BORROW)	NOTE 5 - SELECT ONE BASED ON INPUT DIALOG SELECTION
6 - REDUCED MARSH IN	REDUCED MARSH EXCAVATION THAT CAN BE USED IN FILL	NOTE 6 - IF EXCAVATED MARSH CAN BE USED IN FILL
7 - REDUCED EBS IN FILL	REDUCED EBS EXCAVATION THAT CAN BE USED IN FILL	NOTE 7 - IF EXCAVATED EBS CAN BE USED IN FILL
8 - MASS ORDINATE	IF MARSH OR EBS TO BE BACKFILLED WITH COMMON OR BORROW: [(CUT - SALVAGED PAVT - EXPANDED MARSH EXC - EXPANDED EBS) - ((FILL - REDUCED MARSH IN FILL - REDUCED EBS IN FILL - EXPANDED ROCK) * FILL FACTOR)]	NOTE 8 - SELECT ONE BASED ON MASS HAUL INPUT DIALOG SELECTION. EBS AND MARSH EXC USED OUTSIDE 1:1 IN FILL SLOPES
8 - MASS ORDINATE	IF MARSH AND EBS TO BE BACKFILLED WITH GRANULAR: [CUT - SALVAGED PAVT - ((FILL - REDUCED MARSH IN FILL - REDUCED EBS IN FILL - EXPANDED ROCK) * FILL FACTOR)]	EBS AND MARSH EXC USED OUTSIDE 1:1 IN FILL SLOPES
8 - MASS ORDINATE	IF MARSH AND EBS TO BE BACKFILLED WITH COMMON OR BORROW: [(CUT - SALVAGED PAVT - EXPANDED MARSH EXC - EXPANDED EBS) - ((FILL - EXPANDED ROCK) * FILL FACTOR)]	MARSH AND EBS ARE NOT USABLE OUTSIDE THE 1:1 SLOPES
8 - MASS ORDINATE	IF MARSH AND EBS TO BE BACKFILLED WITH GRANULAR: [CUT - SALVAGED PAVT - ((FILL - EXPANDED ROCK) * FILL FACTOR)]	MARSH AND EBS ARE NOT USABLE OUTSIDE THE 1:1 SLOPES

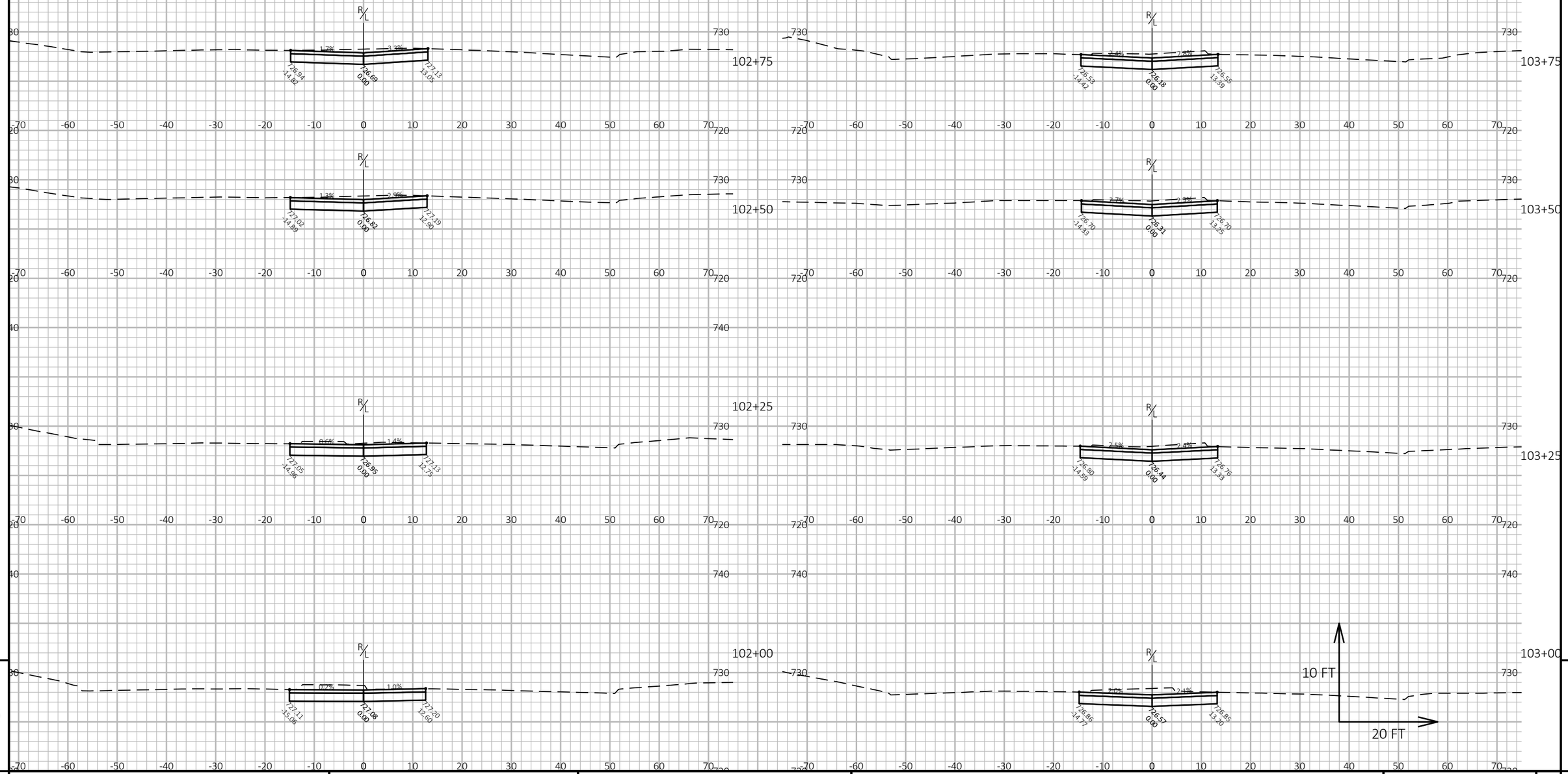


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PROJECT NO: 2050-08-71	HWY: CTH BB	COUNTY: MILWAUKEE	CROSS SECTIONS: W. RAWSON AVE- STAGE 1 CROSSOVER (WEST)	SHEET 415	E

FILE NAME : \\W3027S02\DPPI$\DPW PROFESSIONAL\DATA\HIGHWAY OPERATIONS CONTROL FILE\CENTRAL FILES\2010-2014\CTH BB - W. RAWSON AVE\2050-08-01 S 13TH ST TO W HOWELL AVE\DESIGN\PLANS\Z_XS-STAGE 1.dwg
LAYOUT NAME - 01
10/9/2024 9:55 AM
PLOT BY : HILLIARD, MARC
PLOT NAME :
PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.
WISDOT/CADDS SHEET 49

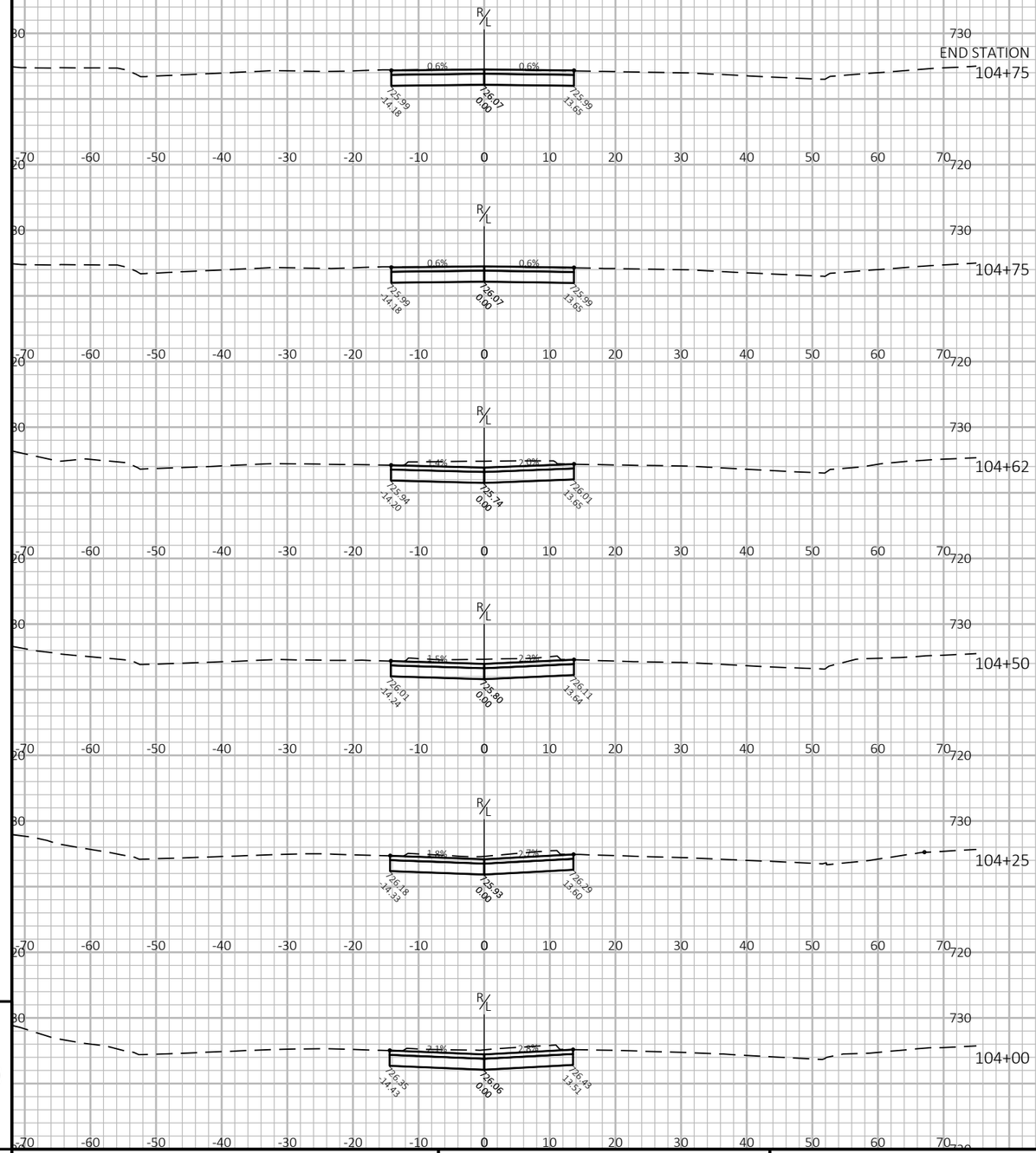


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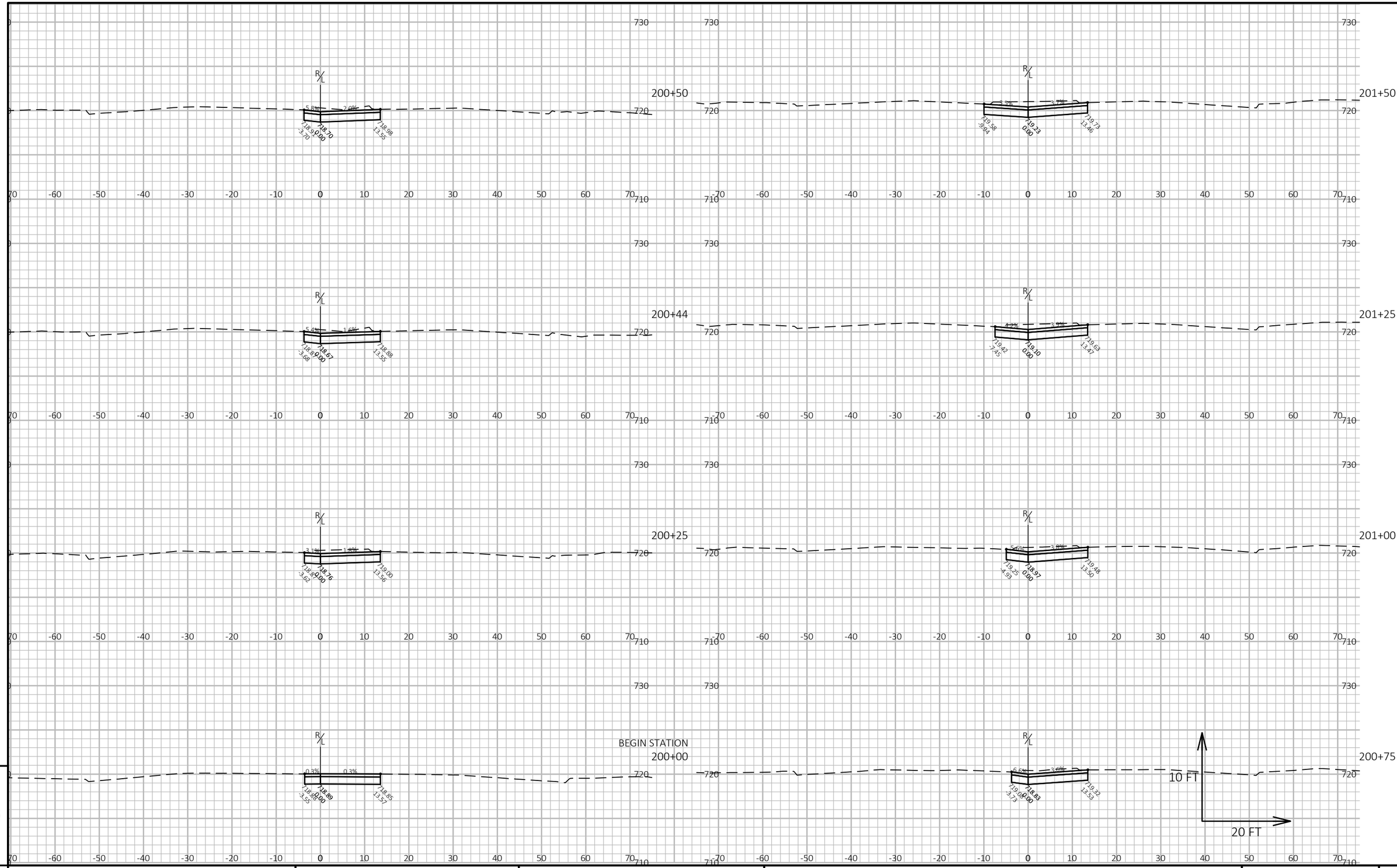
PROJECT NO: 2050-08-71	HWY: CTH BB	COUNTY: MILWAUKEE	CROSS SECTIONS: W. RAWSON AVE- STAGE 1 CROSSOVER (WEST)	SHEET 416	E

FILE NAME : \\W3027S02\DPPI$\DPW PROFESSIONAL\DATA\HIGHWAY OPERATIONS CONTROL FILE\CENTRAL FILES\2010-2014\CTH BB - W. RAWSON AVE\2050-08-01 S 13TH ST TO W HOWELL AVE\DESIGN\PLANS\Z_XS-STAGE 1.DWG
LAYOUT NAME - 02
PLOTTED : 10/9/2024 9:55 AM
PLOT BY : HILLIARD, MARC
PLOT NAME :
PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.
WISDOT/CADDS SHEET 49



PROJECT NO: 2050-08-71	HWY: CTH BB	COUNTY: MILWAUKEE	CROSS SECTIONS: W. RAWSON AVE- STAGE 1 CROSSOVER (WEST)	SHEET 417 E

FILE NAME : \\W3027S02\DPPI$\DPW PROFESSIONAL\DATA\HIGHWAY OPERATIONS CONTROL FILE\CENTRAL FILES\2010-2014\CTH BB - W. RAWSON AVE\2050-08-01 S 13TH ST TO W HOWELL AVE\DESIGN\PLANS\Z_XS-STAGE 1.dwg
LAYOUT NAME - 03
10/9/2024 9:55 AM
PLOT BY : HILLIARD, MARC
PLOT NAME :
PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.
WISDOT/CADDS SHEET 49

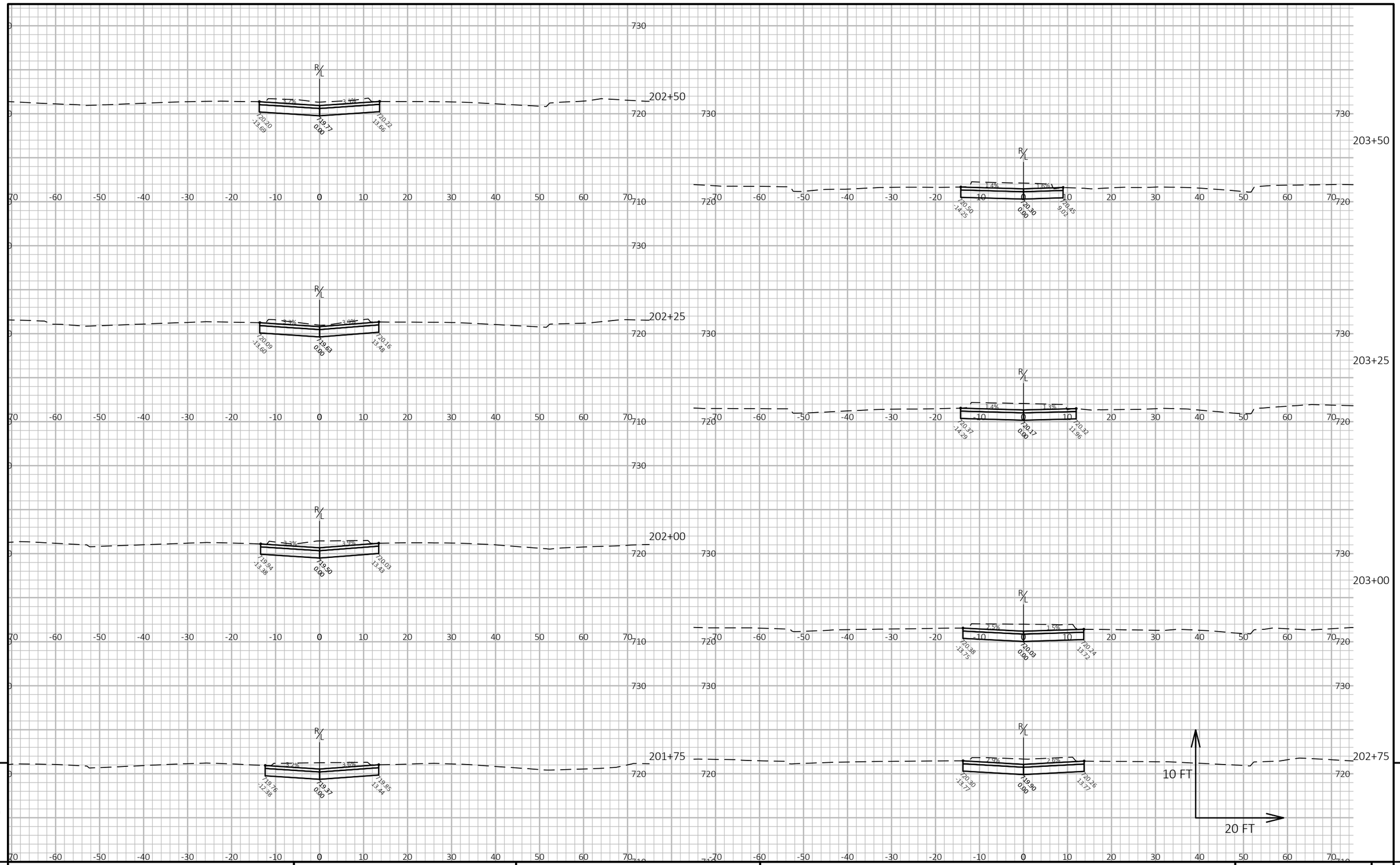


9

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PROJECT NO: 2050-08-71	HWY: CTH BB	COUNTY: MILWAUKEE	CROSS SECTIONS: W. RAWSON AVE- STAGE 1 CROSSOVER (EAST)	SHEET 418	E

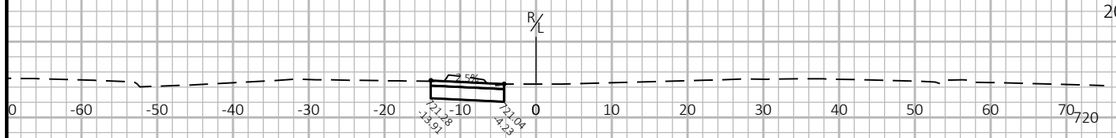
FILE NAME : \\W3027S02\DPPI$\DPW PROFESSIONAL\DATA\HIGHWAY OPERATIONS CONTROL FILE\CENTRAL FILES\2010-2014\CTH BB - W. RAWSON AVE\2050-08-01 S 13TH ST TO W HOWELL AVE\DESIGN\PLANS\Z_XS-STG1.dwg 10/9/2024 9:55 AM
LAYOUT NAME - 10
PLOT BY : HILLIARD, MARC PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.
WISDOT/CADDS SHEET 49



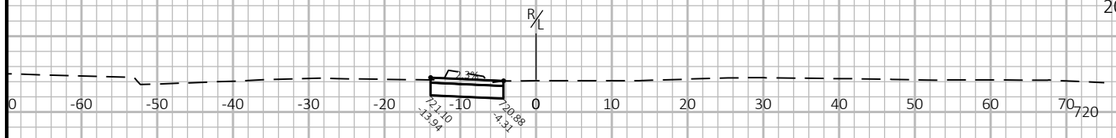
PROJECT NO: 2050-08-71	HWY: CTH BB	COUNTY: MILWAUKEE	CROSS SECTIONS: W. RAWSON AVE- STAGE 1 CROSSOVER (EAST)	SHEET 419	E

FILE NAME : \\W3027S02\DPPIS\DPW PROFESSIONAL\DATA\HIGHWAY OPERATIONS CONTROL FILE\CENTRAL FILES\2010-2014\CTH BB - W. RAWSON AVE\2050-08-01 S 13TH ST TO W HOWELL AVE\DESIGN\PLANS\Z_XS-STG1.dwg
LAYOUT NAME - 11
10/9/2024 9:55 AM
PLOT BY : HILLIARD, MARC
PLOT NAME :
PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.
WISDOT/CADDS SHEET 49

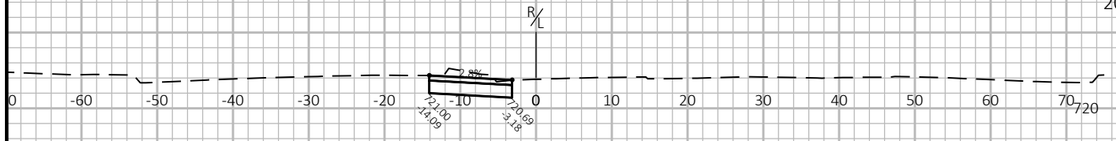
205+00



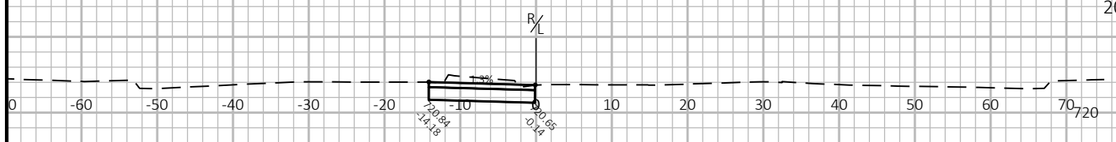
204+75



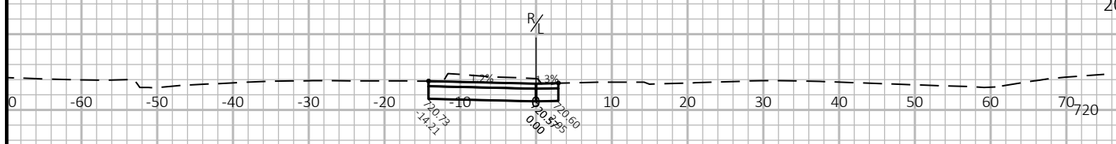
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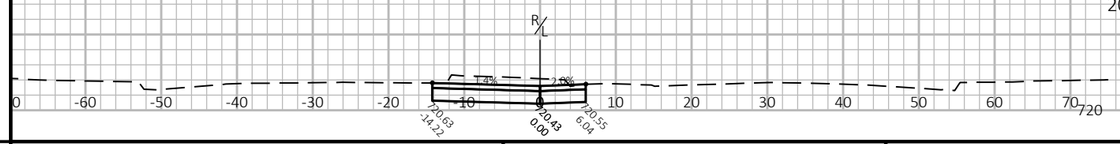
204+25

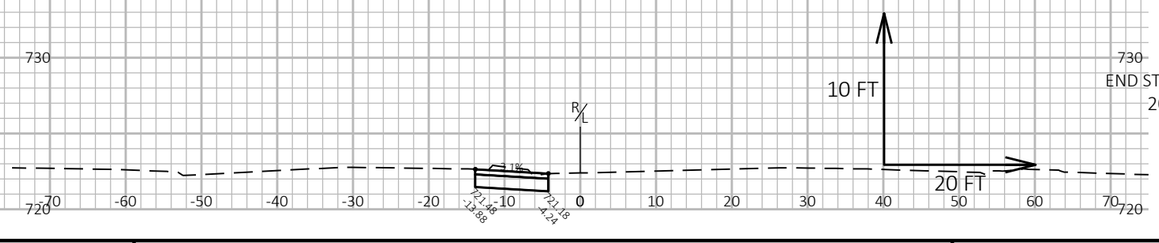


204+00



203+75





9

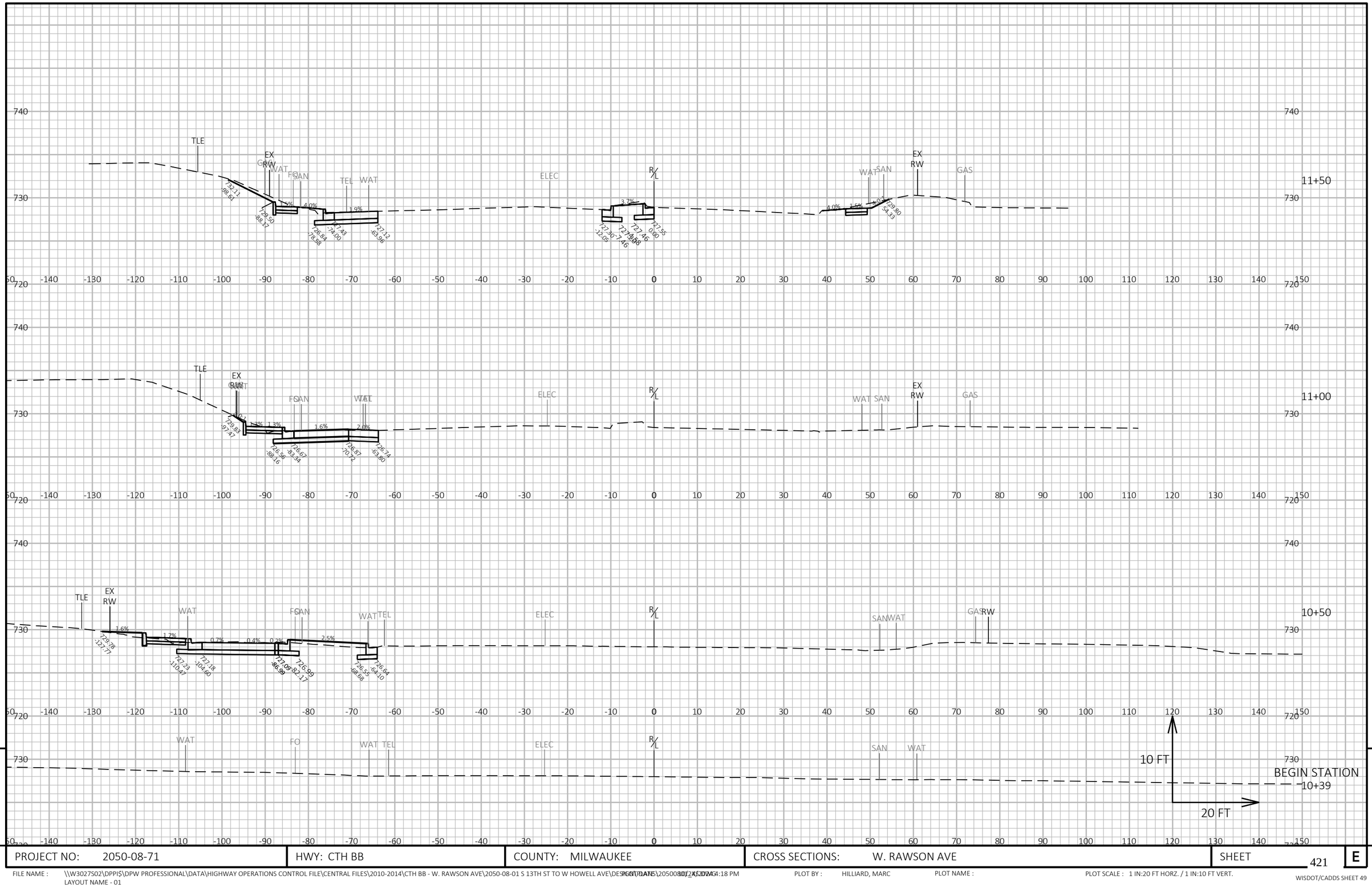
9

PROJECT NO: 2050-08-71	HWY: CTH BB	COUNTY: MILWAUKEE	CROSS SECTIONS: W. RAWSON AVE- STAGE 1 CROSSOVER (EAST)	SHEET 420	E

FILE NAME : \\W3027S02\DPPIS\DPW PROFESSIONAL\DATA\HIGHWAY OPERATIONS CONTROL FILE\CENTRAL FILES\2010-2014\CTH BB - W. RAWSON AVE\2050-08-01 S 13TH ST TO W HOWELL AVE\DESIGN\PLANS\Z_XS-STG1W.dgn
LAYOUT NAME - 12

PLOTTED : 10/9/2024 9:55 AM PLOT BY : HILLIARD, MARC PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

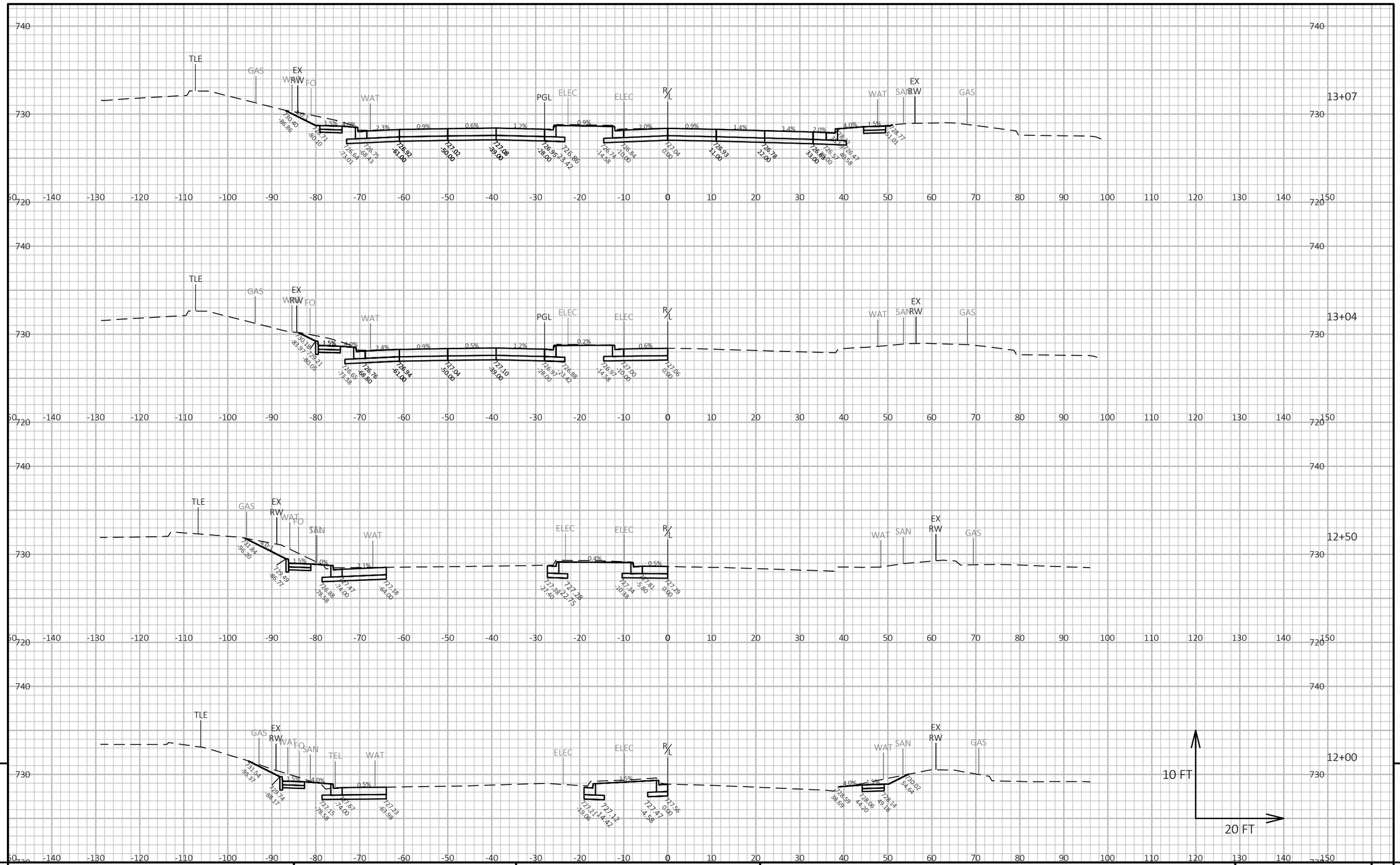


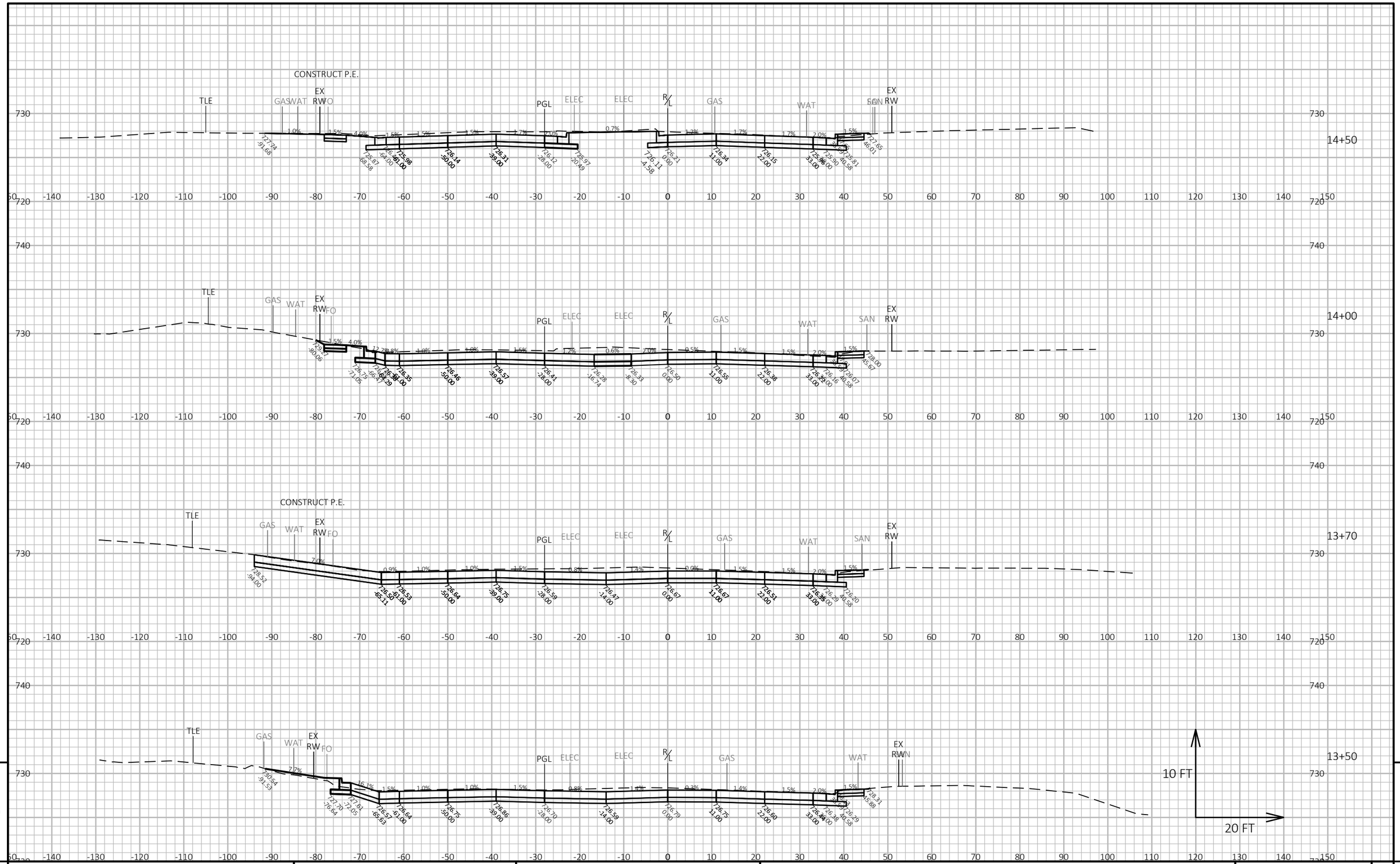
PROJECT NO: 2050-08-71	HWY: CTH BB	COUNTY: MILWAUKEE	CROSS SECTIONS: W. RAWSON AVE	SHEET 421 E

FILE NAME : \\W3027S02\DPPIS\DPW PROFESSIONAL\DATA\HIGHWAY OPERATIONS CONTROL FILE\CENTRAL FILES\2010-2014\CTH BB - W. RAWSON AVE\2050-08-01 S 13TH ST TO W HOWELL AVE\DESIGN\PLANS\2050-08-01 X-SECTIONS.dgn 10/24/2024 4:18 PM
LAYOUT NAME - 01

PLOT BY : HILLIARD, MARC PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49


13+07
TLE
GAS
EX RW
WAT
FO
WAT
PGL
ELEC
ELEC
R/L
WAT
SAN
EX RW
GAS
730.40 -86.86
730.71 -80.10
726.64 -73.01
726.75 -68.43
726.92 -61.00
727.02 -50.00
727.08 -39.00
726.95 -28.00
726.86 -23.42
726.74 -14.58
726.84 -10.00
727.04 0.00
726.93 11.00
726.78 22.00
726.69 33.00
726.57 40.58
726.47 51.01
728.77
13+04
730.18 -83.97
730.21 -80.05
726.65 -73.38
726.76 -68.80
726.94 -61.00
727.04 -50.00
727.10 -39.00
726.97 -28.00
726.88 -23.42
726.97 -14.58
727.00 -10.00
727.06 0.00
12+50
731.84 -96.20
729.49 -86.77
726.89 -78.58
727.47 -74.00
727.18 -69.00
727.28 -27.40
727.28 -22.75
727.34 -10.38
727.81 -5.80
727.29 0.00
12+00
731.54 -99.37
729.74 -89.17
727.15 -78.58
727.67 -74.00
727.23 -69.98
727.12 -41.42
727.47 -14.58
727.56 0.00
728.59 -39.59
728.06 -44.20
728.14 -49.14
730.02 -54.64
10 FT
20 FT
9
9
PROJECT NO: 2050-08-71
HWY: CTH BB
COUNTY: MILWAUKEE
CROSS SECTIONS: W. RAWSON AVE
SHEET 422 E
FILE NAME : \\W3027S02\DPPIS\DPW PROFESSIONAL\DATA\HIGHWAY OPERATIONS CONTROL FILE\CENTRAL FILES\2010-2014\CTH BB - W. RAWSON AVE\2050-08-01 S 13TH ST TO W HOWELL AVE\DESIGN\PLANS\2050080102_XSDWG 4:18 PM
LAYOUT NAME - 02
PLOT BY : HILLIARD, MARC
PLOT NAME :
PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.
WISDOT/CADDS SHEET 49



9

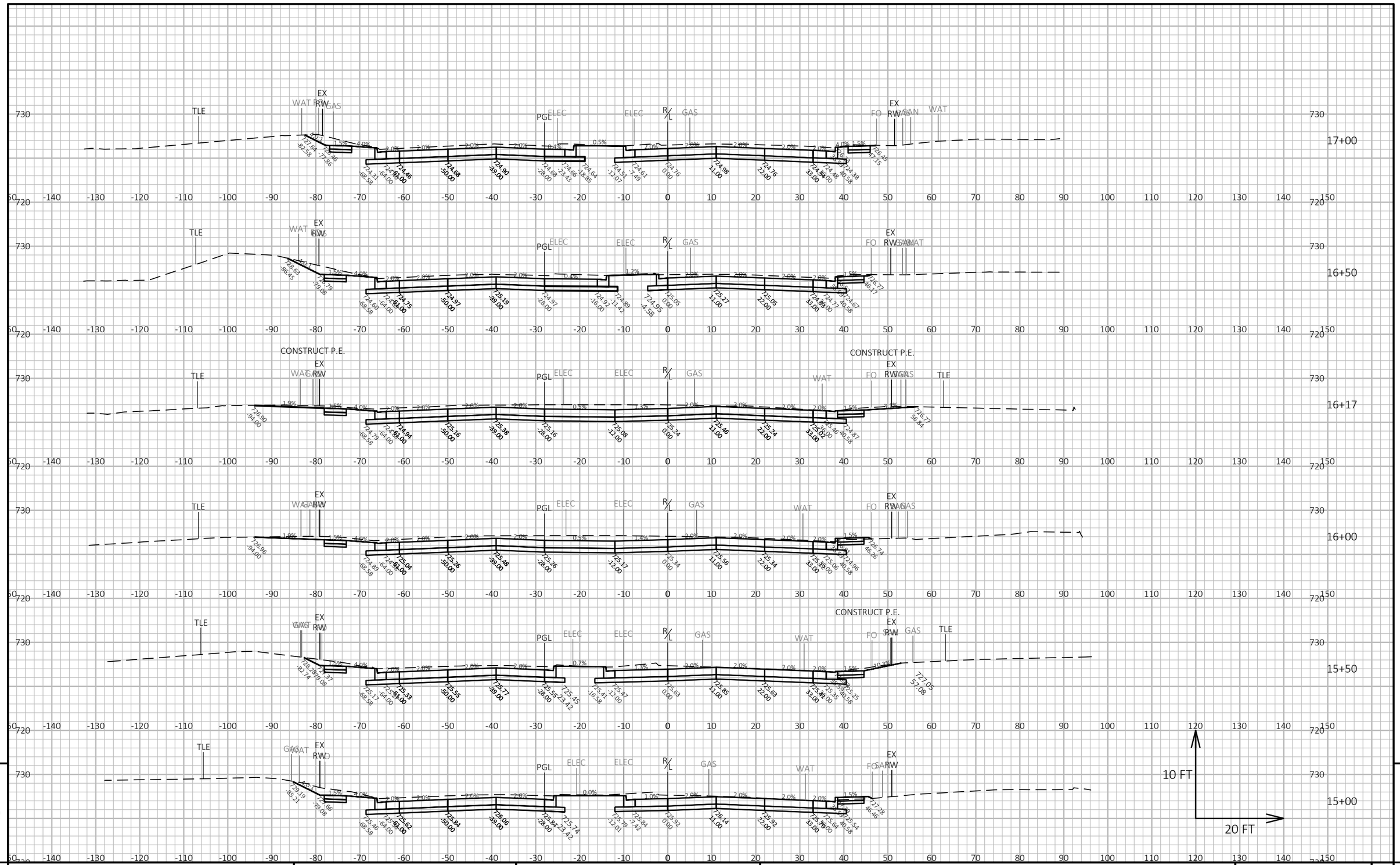
9

PROJECT NO: 2050-08-71	HWY: CTH BB	COUNTY: MILWAUKEE	CROSS SECTIONS: W. RAWSON AVE	SHEET 423	E

FILE NAME : \\W3027S02\DPPI$\DPW PROFESSIONAL\DATA\HIGHWAY OPERATIONS CONTROL FILE\CENTRAL FILES\2010-2014\CTH BB - W. RAWSON AVE\2050-08-01 S 13TH ST TO W HOWELL AVE\DESIGN\PLANS\2050080172_XSDWG 4:18 PM
LAYOUT NAME - 03

PLOT BY : HILLIARD, MARC PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

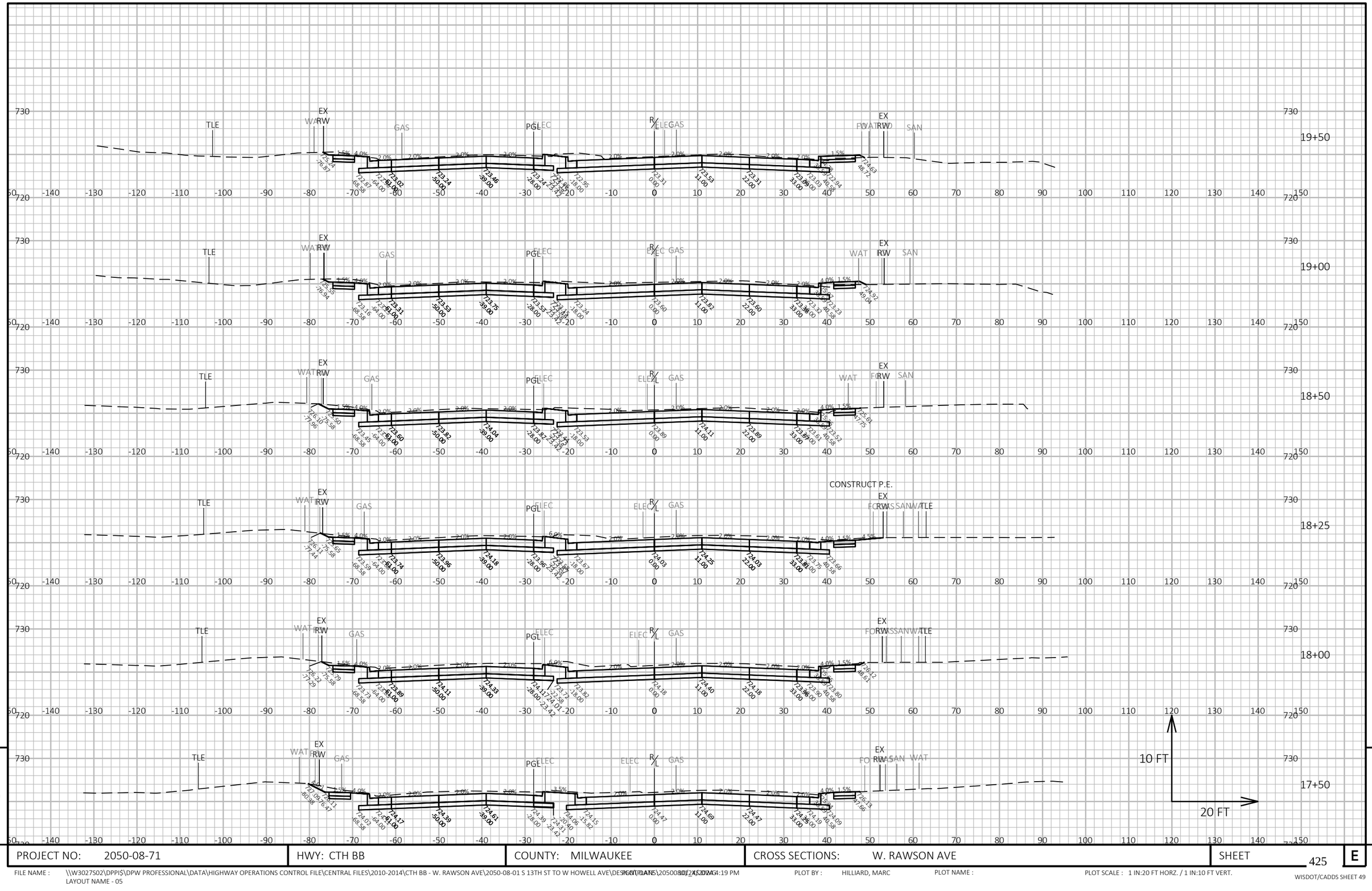
9

PROJECT NO: 2050-08-71	HWY: CTH BB	COUNTY: MILWAUKEE	CROSS SECTIONS: W. RAWSON AVE	SHEET 424	E

FILE NAME : \\W3027S02\DPPIS\DPW PROFESSIONAL\DATA\HIGHWAY OPERATIONS CONTROL FILE\CENTRAL FILES\2010-2014\CTH BB - W. RAWSON AVE\2050-08-01 S 13TH ST TO W HOWELL AVE\DESIGN\PLANS\2050080107_XSDWG.dgn 10/24/2014 4:18 PM
LAYOUT NAME - 04

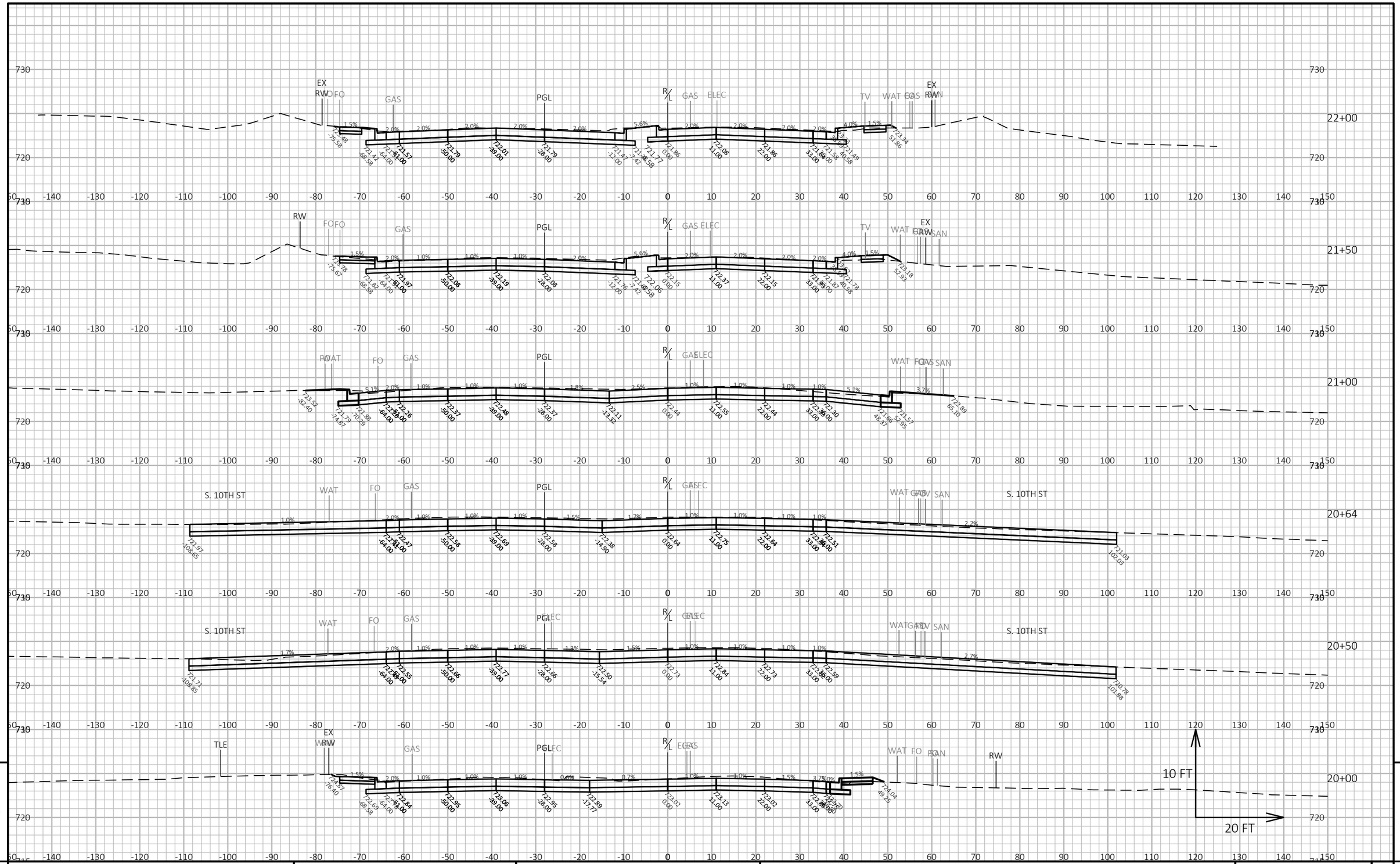
PLOT BY : HILLIARD, MARC PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



PROJECT NO: 2050-08-71	HWY: CTH BB	COUNTY: MILWAUKEE	CROSS SECTIONS: W. RAWSON AVE	SHEET 425	E

FILE NAME : \\W3027S02\DPPIS\DPW PROFESSIONAL\DATA\HIGHWAY OPERATIONS CONTROL FILE\CENTRAL FILES\2010-2014\CTH BB - W. RAWSON AVE\2050-08-01 S 13TH ST TO W HOWELL AVE\DESIGN\PLANS\2050-08-71 XS.DGN
LAYOUT NAME - 05
10/24/2024 4:19 PM
PLOT BY : HILLIARD, MARC
PLOT NAME :
PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.
WISDOT/CADDS SHEET 49

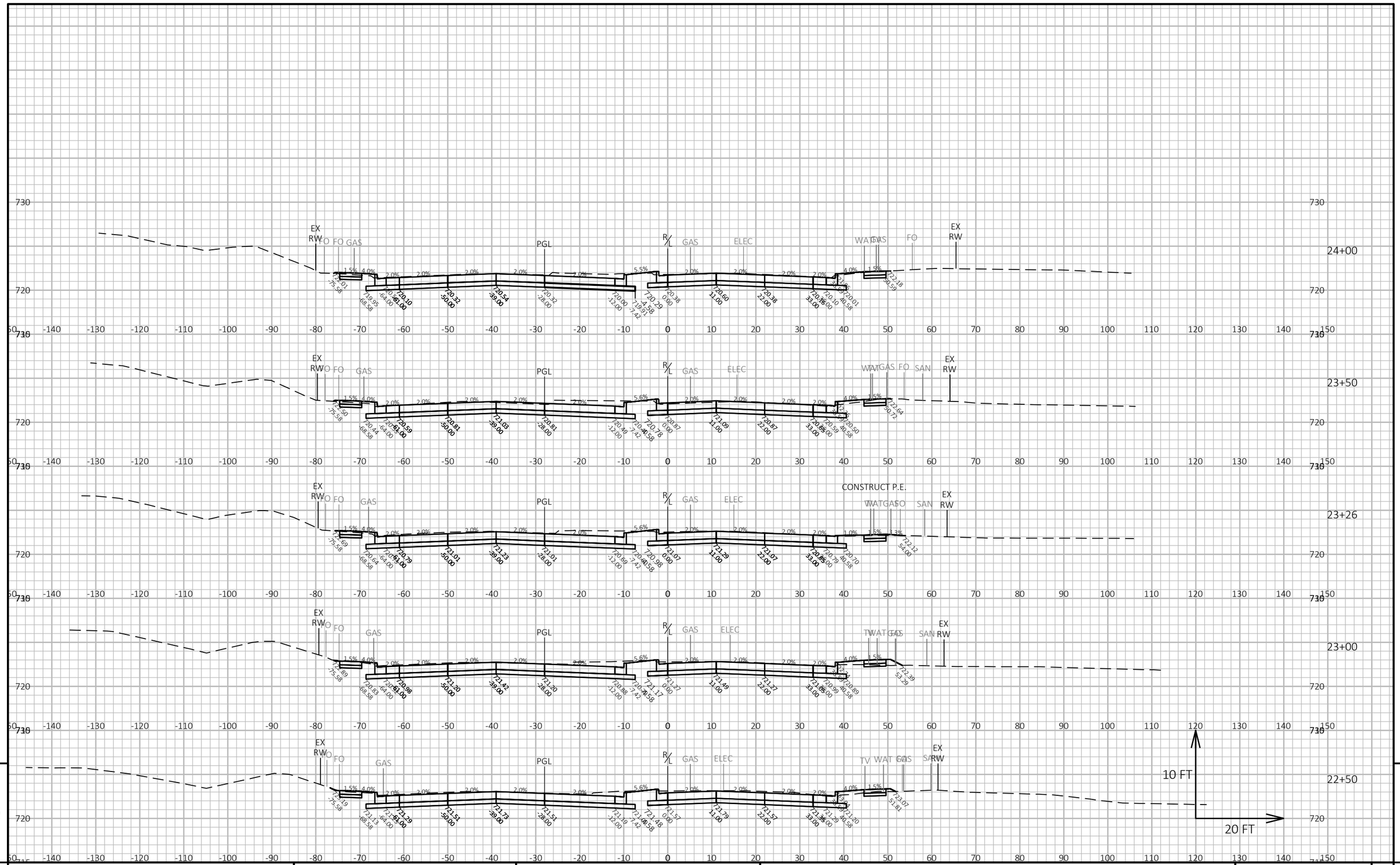


PROJECT NO: 2050-08-71	HWY: CTH BB	COUNTY: MILWAUKEE	CROSS SECTIONS: W. RAWSON AVE	SHEET 426	E

FILE NAME : \\W3027S02\DPPI$\DPW PROFESSIONAL\DATA\HIGHWAY OPERATIONS CONTROL FILE\CENTRAL FILES\2010-2014\CTH BB - W. RAWSON AVE\2050-08-01 S 13TH ST TO W HOWELL AVE\DESIGN\PLANS\2050080701_X_SHEET.DWG 7/25/2014 1:19 PM
LAYOUT NAME - 06

PLOT BY : HILLIARD, MARC PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

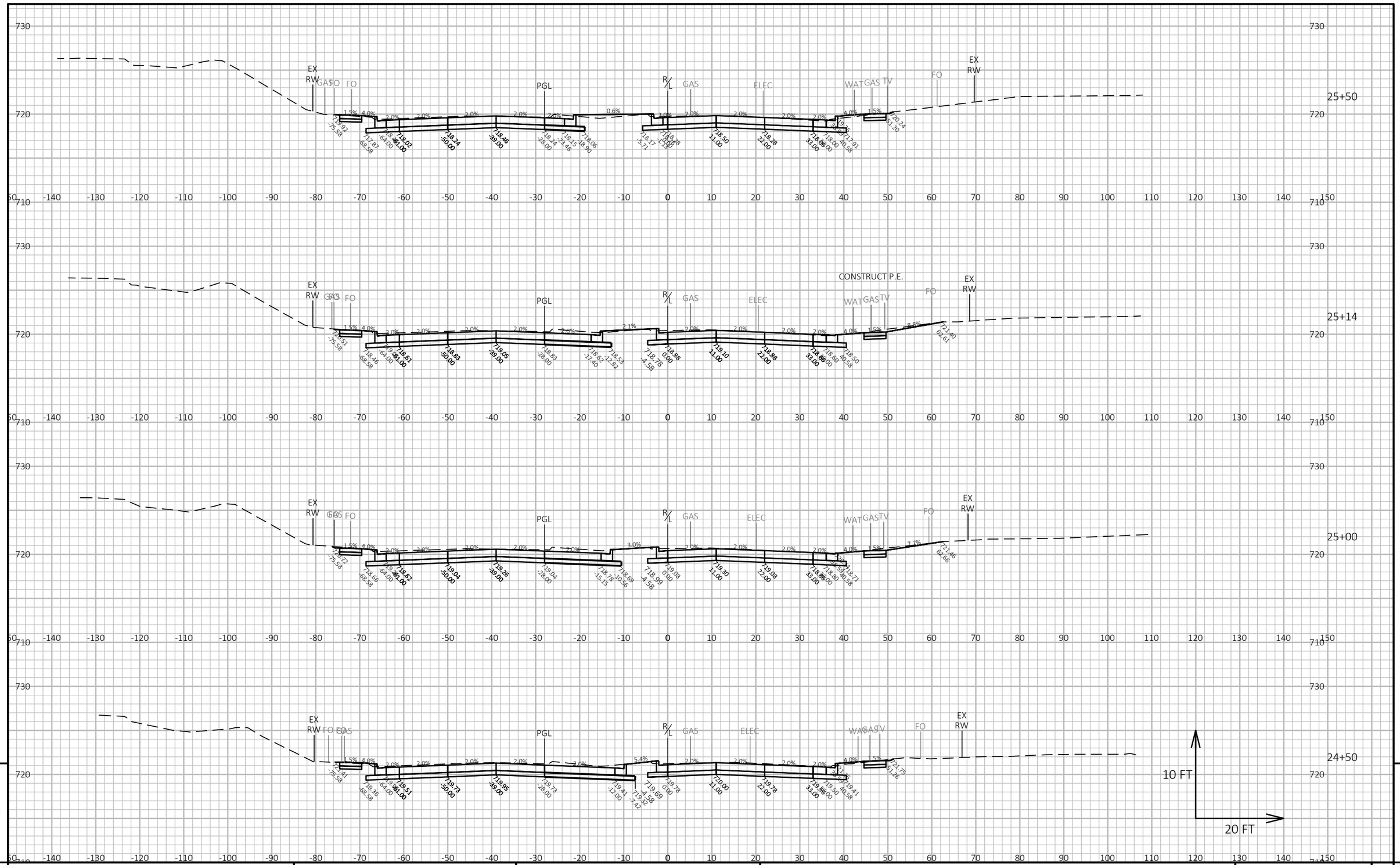


PROJECT NO: 2050-08-71	HWY: CTH BB	COUNTY: MILWAUKEE	CROSS SECTIONS: W. RAWSON AVE	SHEET 427	E

FILE NAME : \\W3027S02\DPPIS\DPW PROFESSIONAL\DATA\HIGHWAY OPERATIONS CONTROL FILE\CENTRAL FILES\2010-2014\CTH BB - W. RAWSON AVE\2050-08-01 S 13TH ST TO W HOWELL AVE\DESIGN\PLANS\2050080107_XSDWG.dgn 10/24/2014 4:19 PM
LAYOUT NAME - 07

PLOT BY : HILLIARD, MARC PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

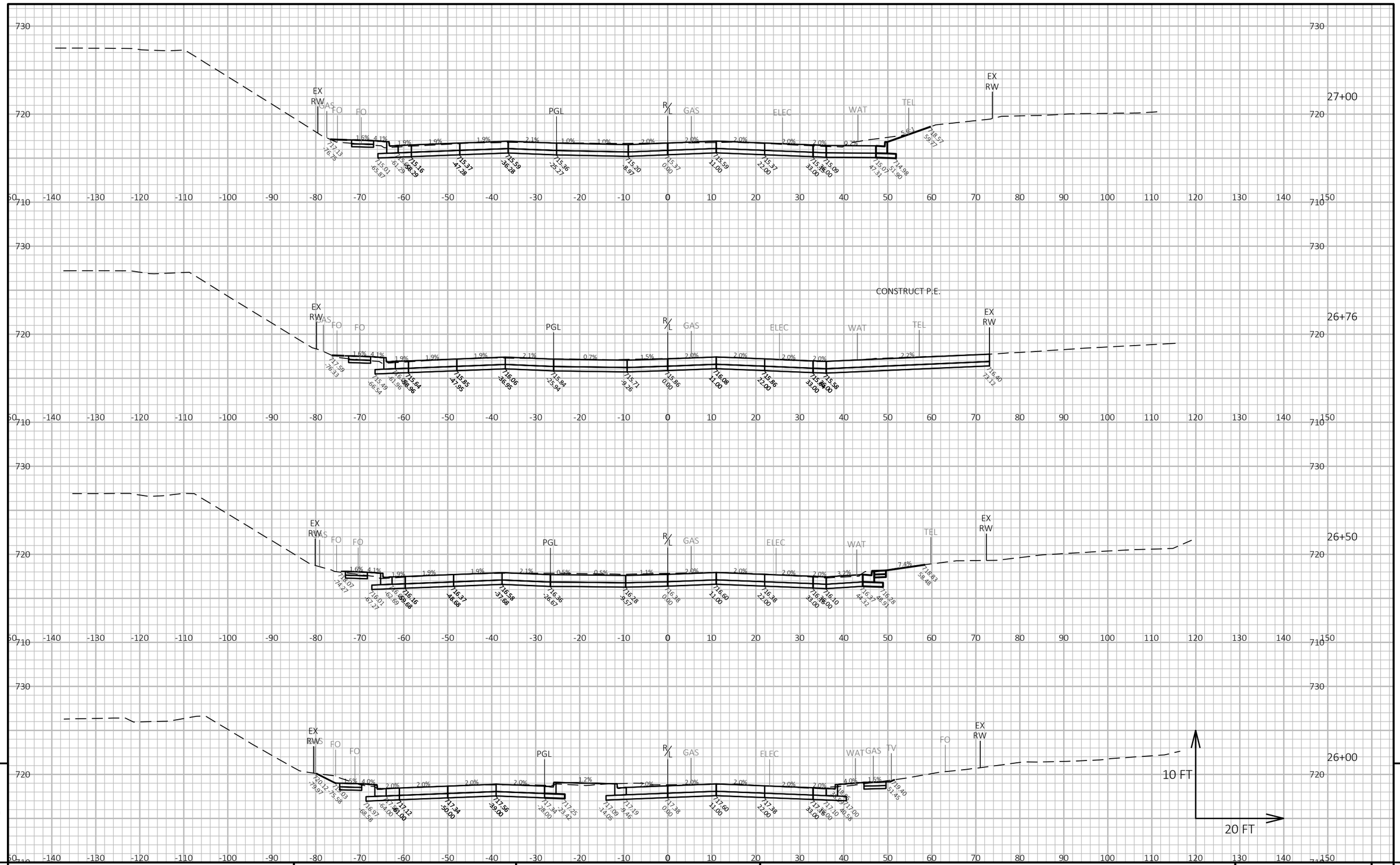


PROJECT NO: 2050-08-71	HWY: CTH BB	COUNTY: MILWAUKEE	CROSS SECTIONS: W. RAWSON AVE	SHEET 428	E

FILE NAME : \\W3027S02\DPPIS\DPW PROFESSIONAL\DATA\HIGHWAY OPERATIONS CONTROL FILE\CENTRAL FILES\2010-2014\CTH BB - W. RAWSON AVE\2050-08-01 S 13TH ST TO W HOWELL AVE\DESIGN\PLANS\2050080102_X5.DWG 4:19 PM
LAYOUT NAME - 08

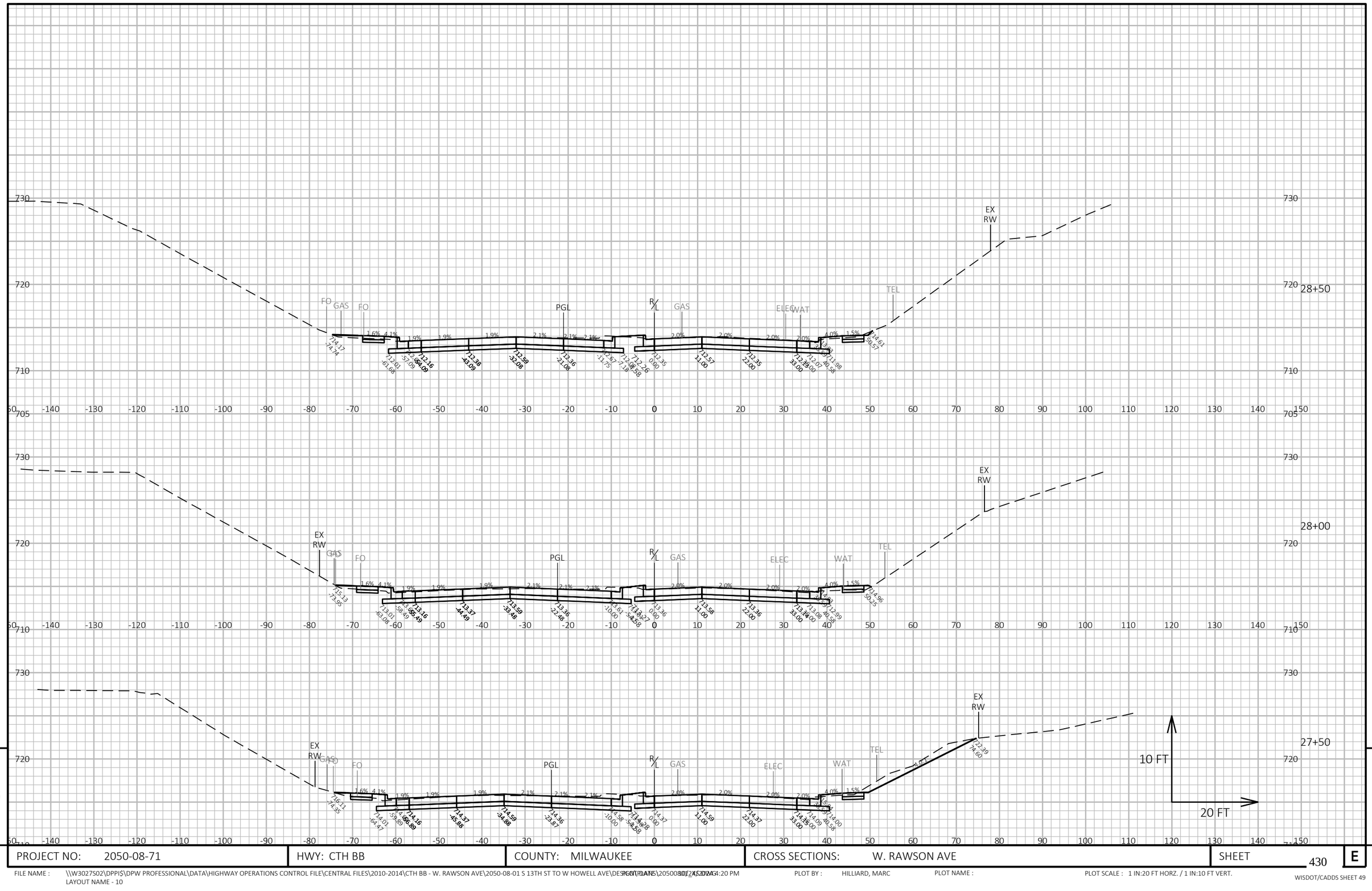
PLOT BY : HILLIARD, MARC PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



PROJECT NO: 2050-08-71	HWY: CTH BB	COUNTY: MILWAUKEE	CROSS SECTIONS: W. RAWSON AVE	SHEET 429	E

FILE NAME : \\W3027S02\DPPIS\DPW PROFESSIONAL\DATA\HIGHWAY OPERATIONS CONTROL FILE\CENTRAL FILES\2010-2014\CTH BB - W. RAWSON AVE\2050-08-01 S 13TH ST TO W HOWELL AVE\DESIGN\PLANS\2050081_X_SHEET.DWG
LAYOUT NAME - 09
PLOTTED : 10/24/2014 4:19 PM
PLOT BY : HILLIARD, MARC
PLOT NAME :
PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.
WISDOT/CADDS SHEET 49



9

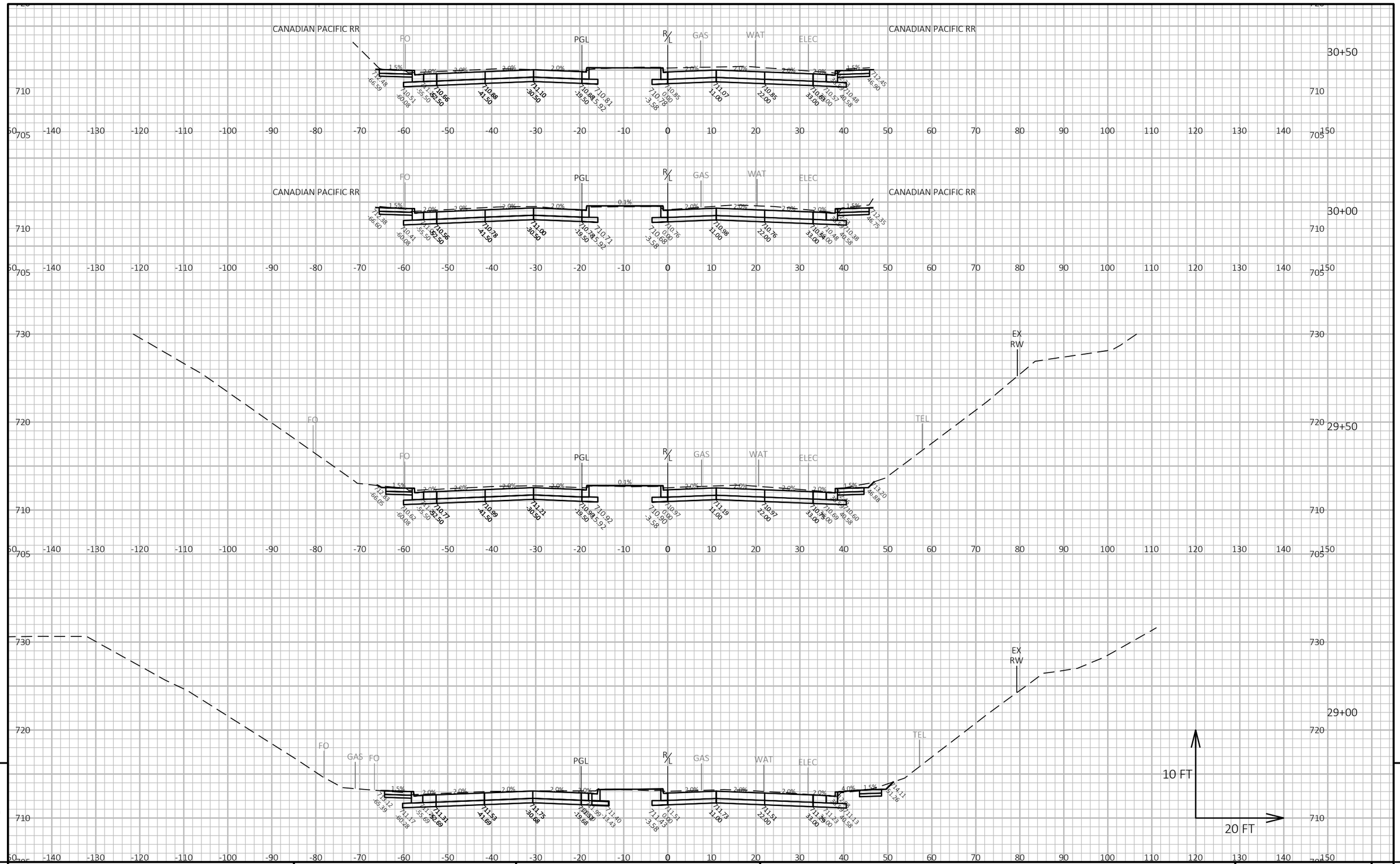
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PROJECT NO: 2050-08-71	HWY: CTH BB	COUNTY: MILWAUKEE	CROSS SECTIONS: W. RAWSON AVE	SHEET 430	E

FILE NAME : \\W3027S02\DPPIS\DPW PROFESSIONAL\DATA\HIGHWAY OPERATIONS CONTROL FILE\CENTRAL FILES\2010-2014\CTH BB - W. RAWSON AVE\2050-08-01 S 13TH ST TO W HOWELL AVE\DESIGN\PLANS\2050080102_XSDWG.dgn 10/24/2014 4:20 PM
LAYOUT NAME - 10

PLOT BY : HILLIARD, MARC PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

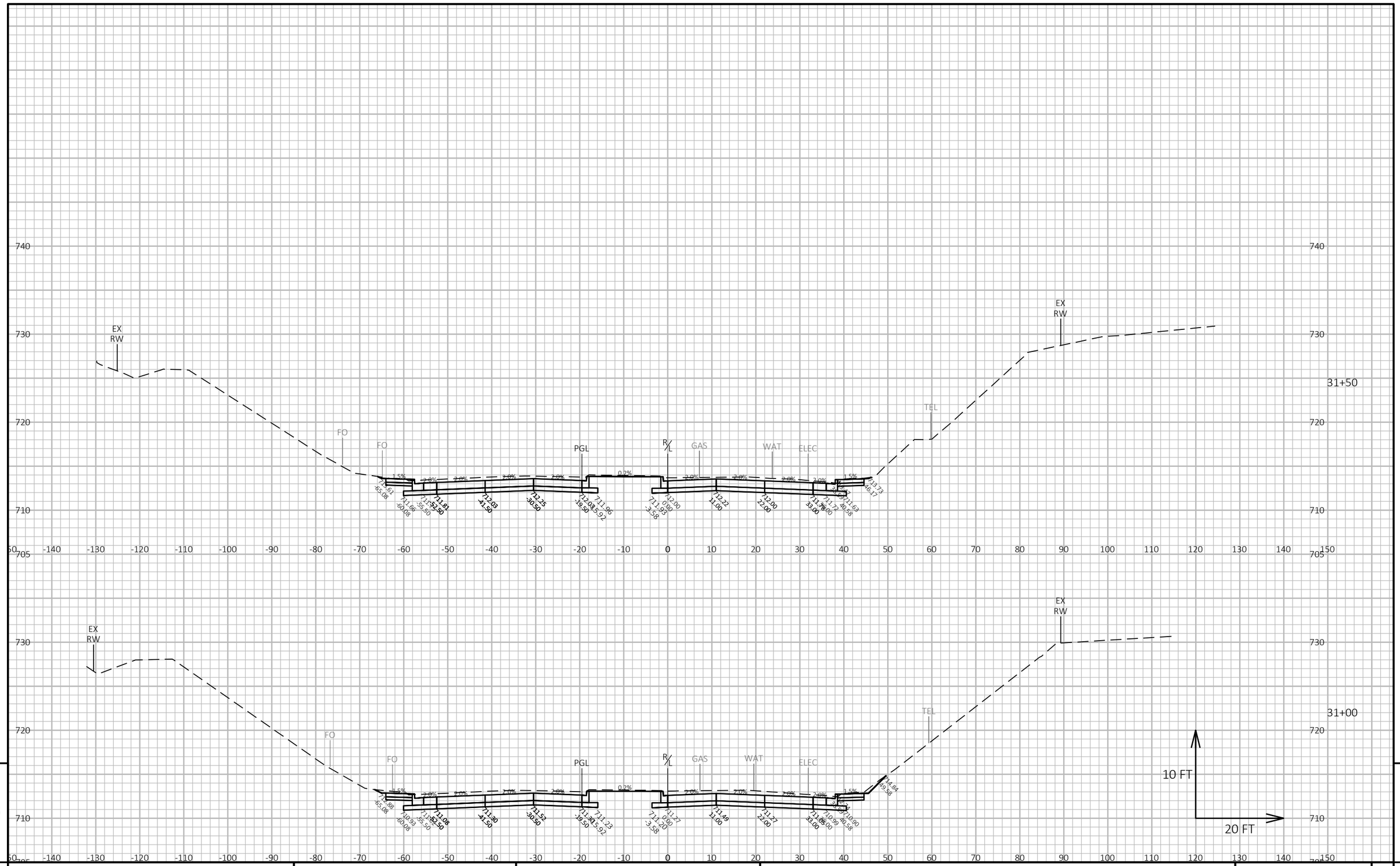
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PROJECT NO: 2050-08-71	HWY: CTH BB	COUNTY: MILWAUKEE	CROSS SECTIONS: W. RAWSON AVE	SHEET 431	E

FILE NAME : \\W3027S02\DPPI$\DPW PROFESSIONAL\DATA\HIGHWAY OPERATIONS CONTROL FILE\CENTRAL FILES\2010-2014\CTH BB - W. RAWSON AVE\2050-08-01 S 13TH ST TO W HOWELL AVE\DESIGN\PLANS\2050801_X5.DWG 10/24/2014 4:20 PM
LAYOUT NAME - 11

PLOT BY : HILLIARD, MARC PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

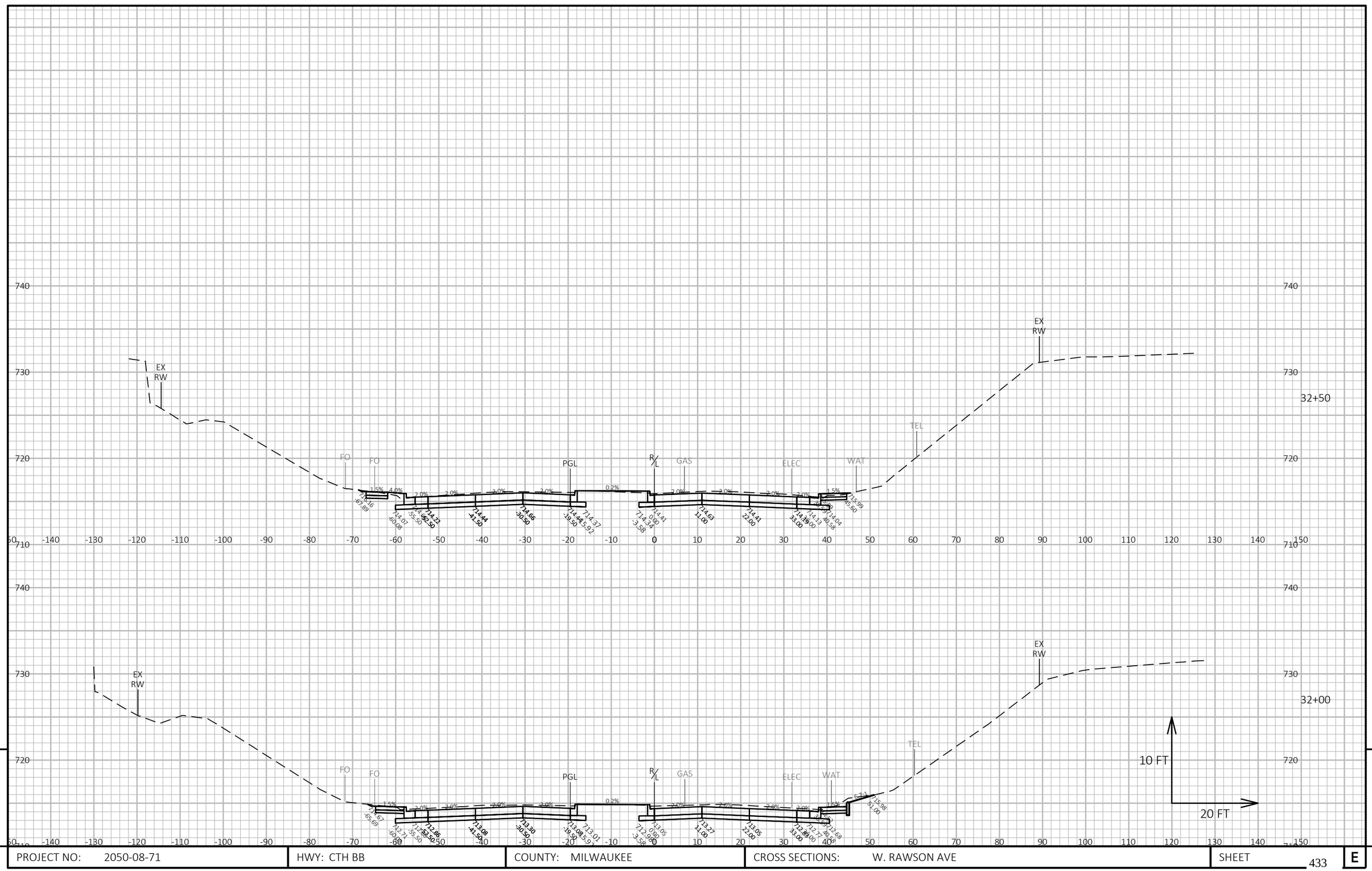
WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 2050-08-71	HWY: CTH BB	COUNTY: MILWAUKEE	CROSS SECTIONS: W. RAWSON AVE	SHEET 432	E



9

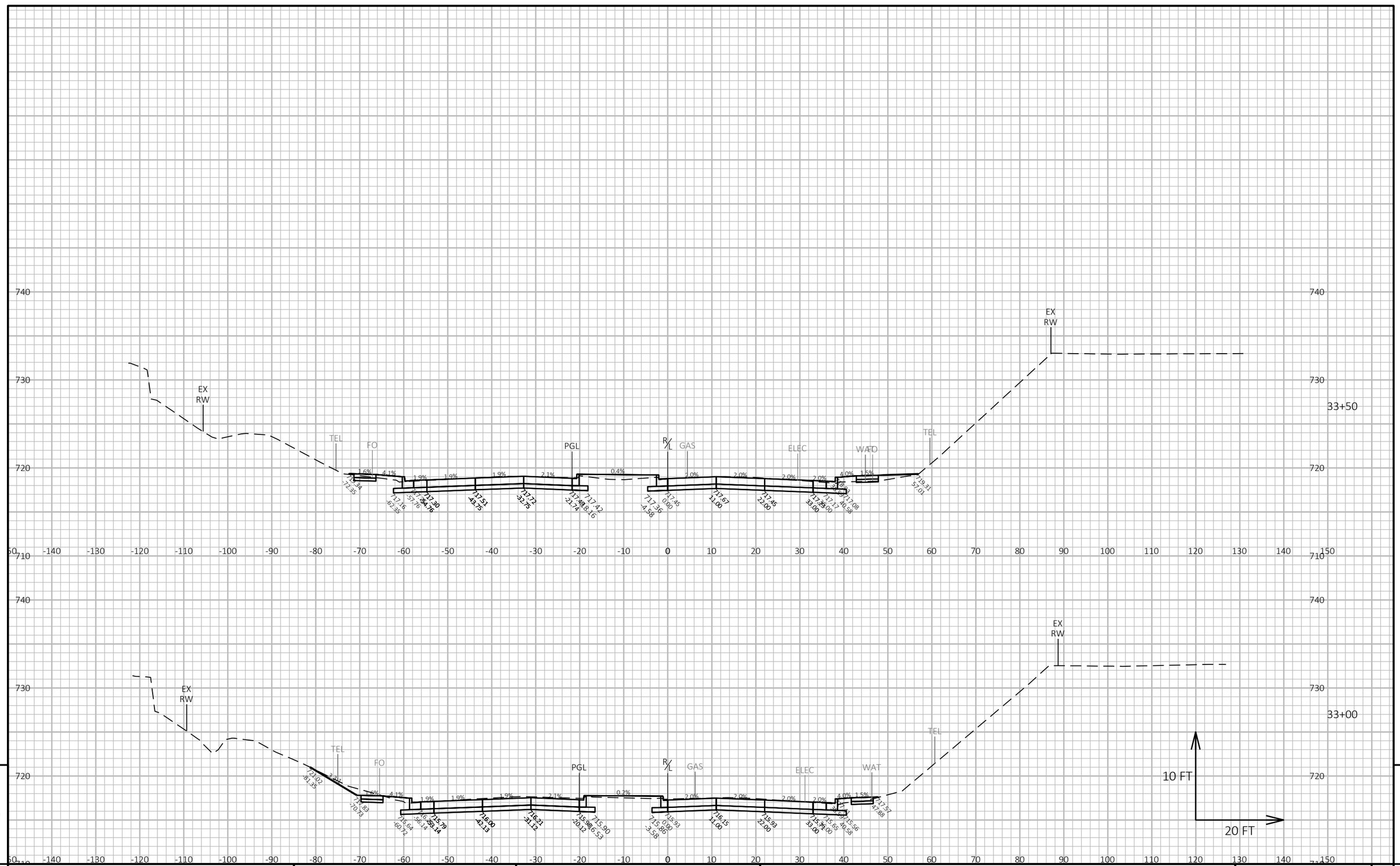
9

PROJECT NO: 2050-08-71	HWY: CTH BB	COUNTY: MILWAUKEE	CROSS SECTIONS: W. RAWSON AVE	SHEET 433	E

FILE NAME : \\W3027S02\DPPIS\DPW PROFESSIONAL\DATA\HIGHWAY OPERATIONS CONTROL FILE\CENTRAL FILES\2010-2014\CTH BB - W. RAWSON AVE\2050-08-01 S 13TH ST TO W HOWELL AVE\DESIGN\PLANS\2050080102_XSDWG 4:20 PM
LAYOUT NAME - 13

PLOT BY : HILLIARD, MARC PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

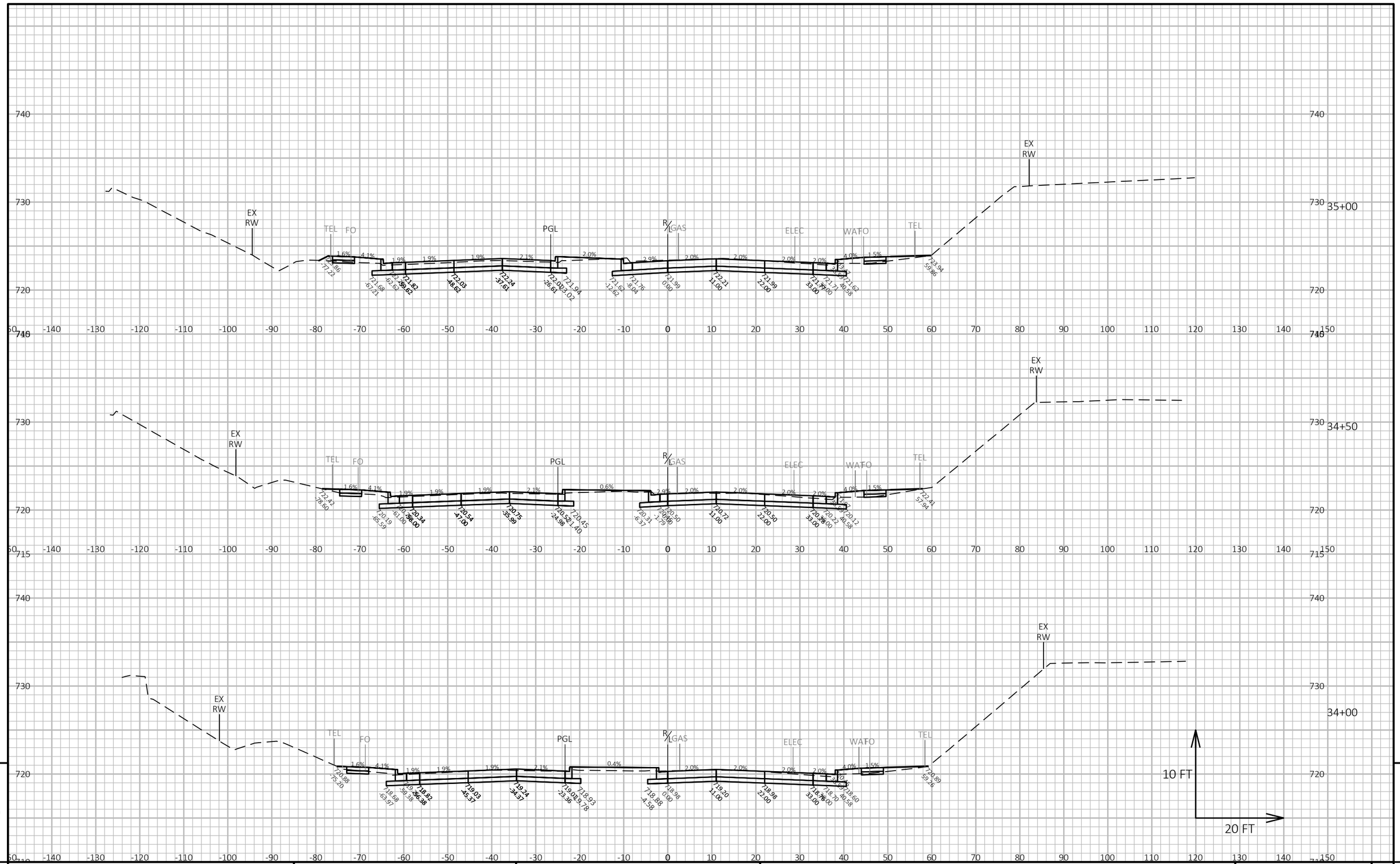
9

PROJECT NO: 2050-08-71	HWY: CTH BB	COUNTY: MILWAUKEE	CROSS SECTIONS: W. RAWSON AVE	SHEET 434	E

FILE NAME : \\W3027S02\DPPI$\DPW PROFESSIONAL\DATA\HIGHWAY OPERATIONS CONTROL FILE\CENTRAL FILES\2010-2014\CTH BB - W. RAWSON AVE\2050-08-01 S 13TH ST TO W HOWELL AVE\DESIGN PLANS\2050803_XSDWG 4:20 PM
LAYOUT NAME - 14

PLOT BY : HILLIARD, MARC PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

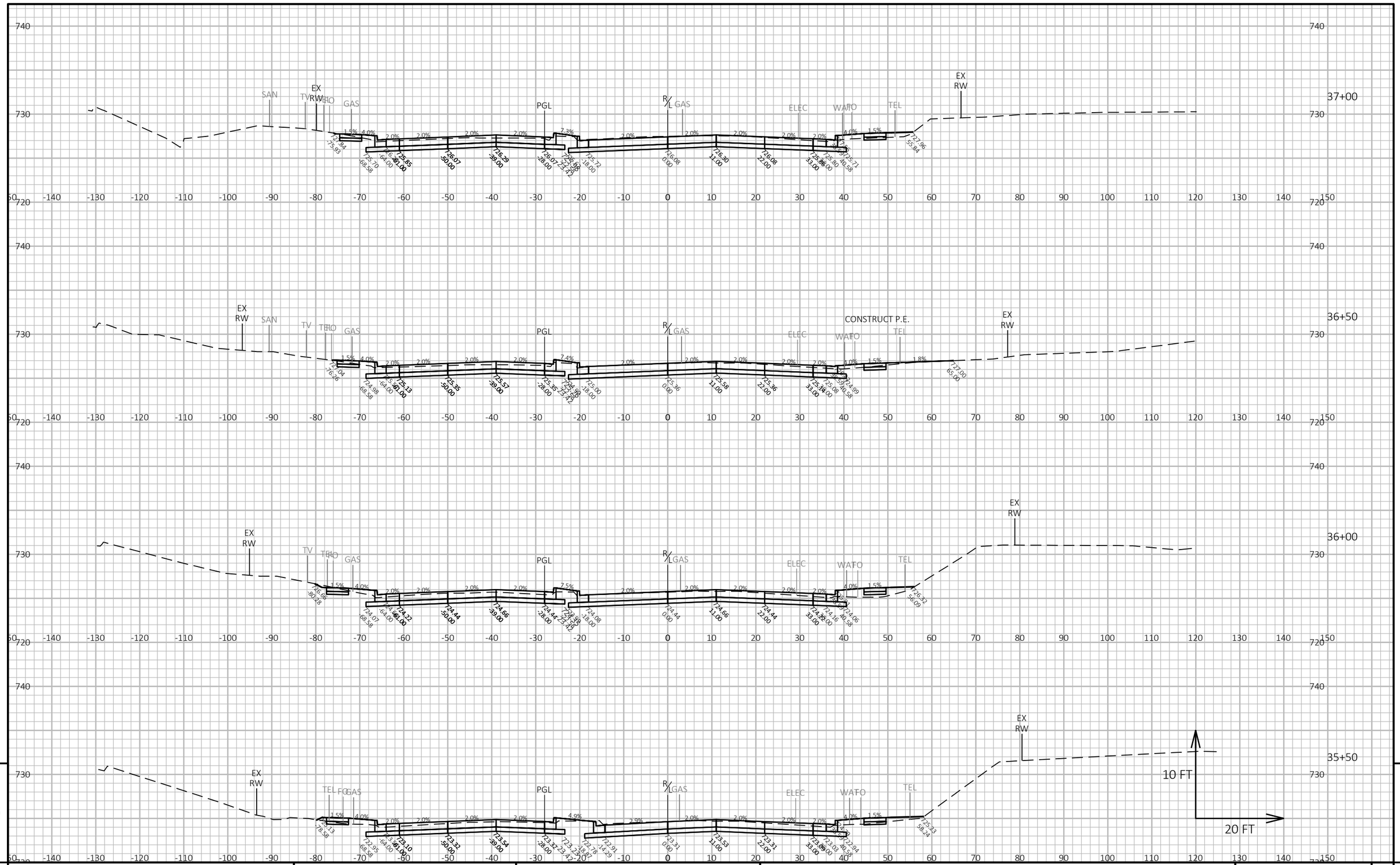
9

PROJECT NO: 2050-08-71	HWY: CTH BB	COUNTY: MILWAUKEE	CROSS SECTIONS: W. RAWSON AVE	SHEET 435	E

FILE NAME : \\W3027S02\DPPI$\DPW PROFESSIONAL\DATA\HIGHWAY OPERATIONS CONTROL FILE\CENTRAL FILES\2010-2014\CTH BB - W. RAWSON AVE\2050-08-01 S 13TH ST TO W HOWELL AVE\DESIGN PLANS\2050080122.DWG
LAYOUT NAME - 15

10/22/2014 4:20 PM PLOT BY : HILLIARD, MARC PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

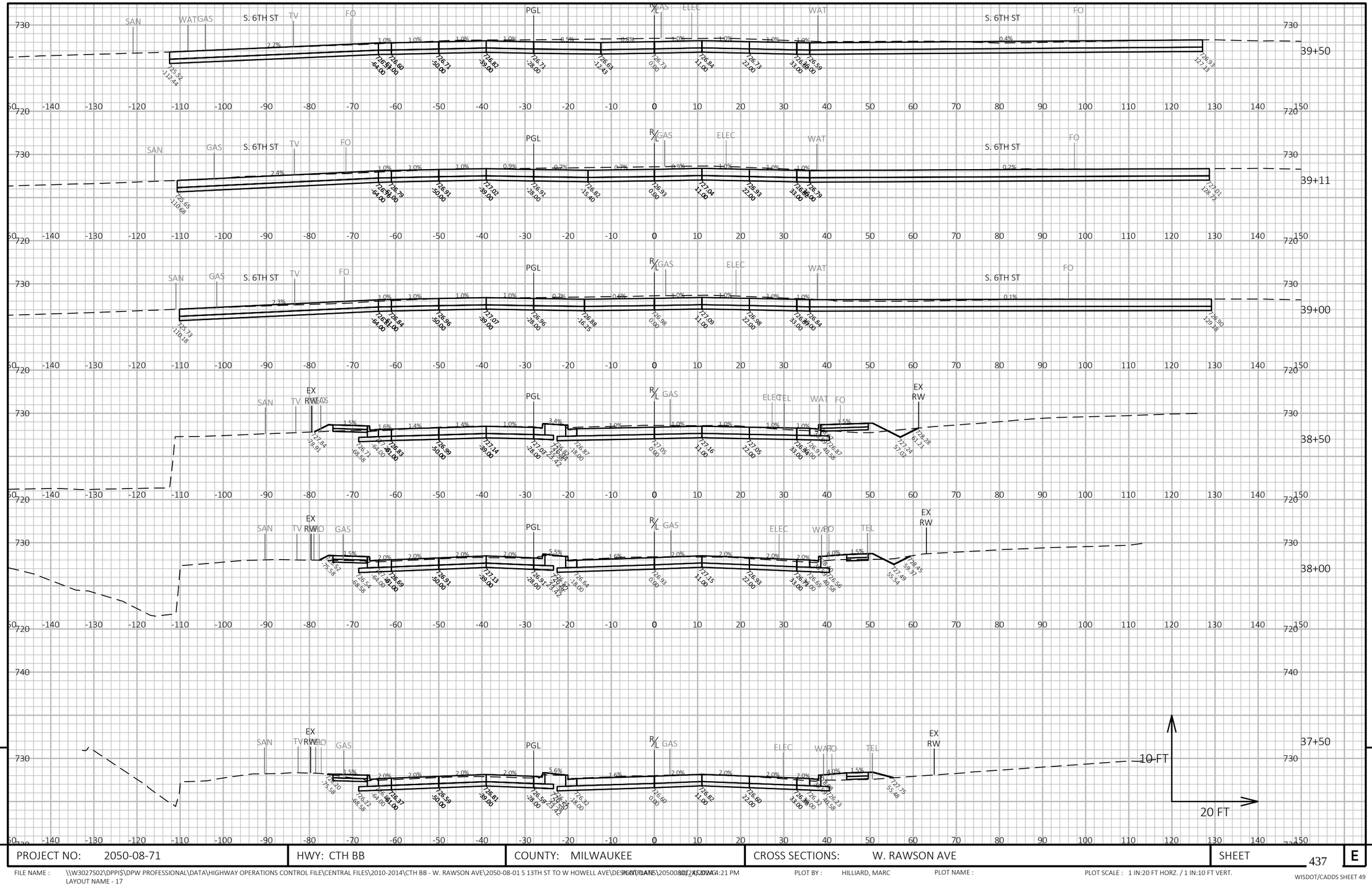


PROJECT NO: 2050-08-71	HWY: CTH BB	COUNTY: MILWAUKEE	CROSS SECTIONS: W. RAWSON AVE	SHEET 436 E

FILE NAME : \\W3027S02\DPPIS\DPW PROFESSIONAL\DATA\HIGHWAY OPERATIONS CONTROL FILE\CENTRAL FILES\2010-2014\CTH BB - W. RAWSON AVE\2050-08-01 S 13TH ST TO W HOWELL AVE\DESIGN\PLANS\2050080102_XSDW3 LAYOUT NAME - 16

PLOTTED : 10/25/2013 4:21 PM PLOT BY : HILLIARD, MARC PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

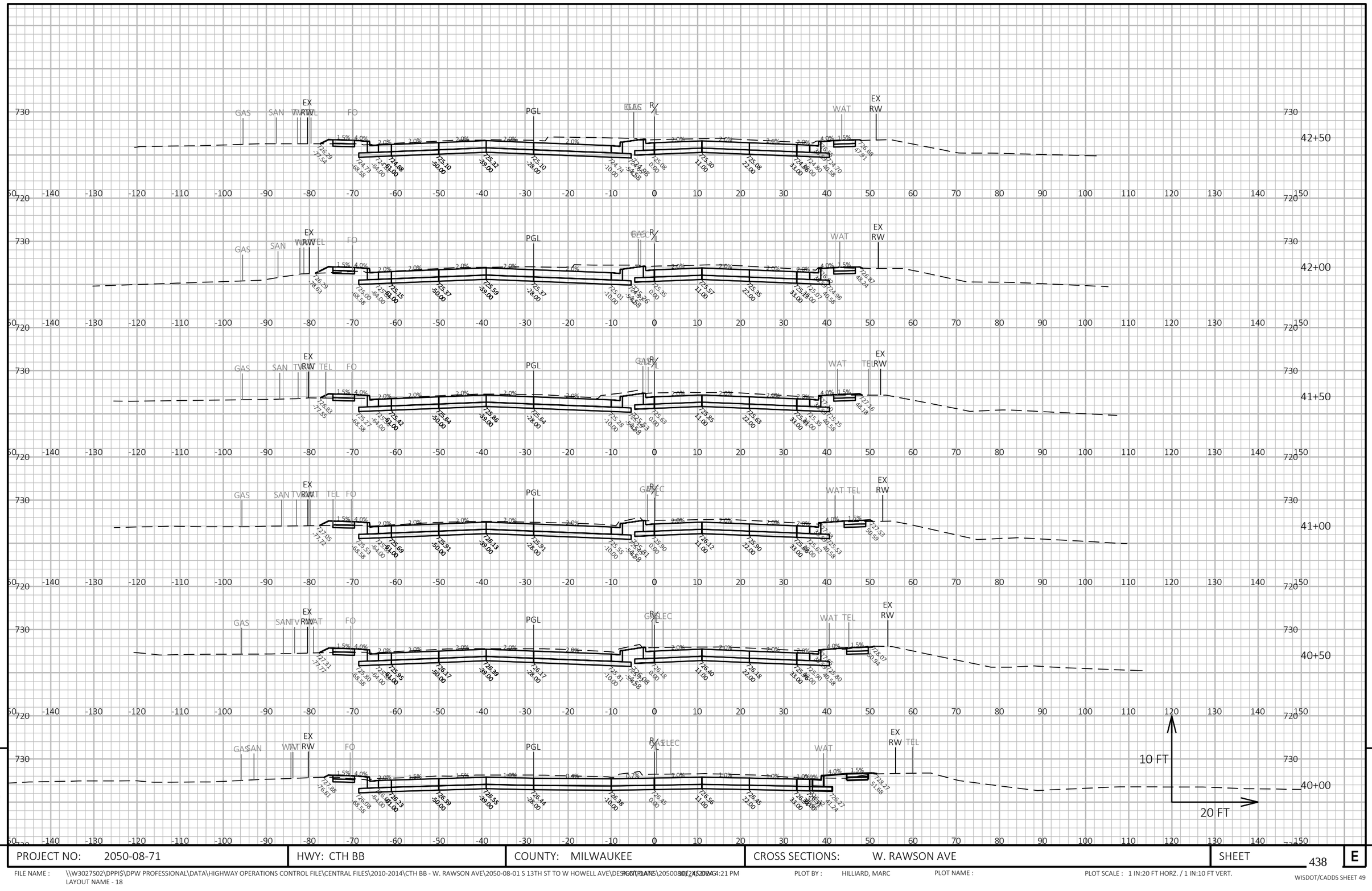
9

PROJECT NO: 2050-08-71	HWY: CTH BB	COUNTY: MILWAUKEE	CROSS SECTIONS: W. RAWSON AVE	SHEET 437	E

FILE NAME : \\W3027S02\DPPI$\DPW PROFESSIONAL\DATA\HIGHWAY OPERATIONS CONTROL FILE\CENTRAL FILES\2010-2014\CTH BB - W. RAWSON AVE\2050-08-01 S 13TH ST TO W HOWELL AVE\DESIGN\PLANS\2050083_XS.DWG 10/24/2023 4:21 PM
LAYOUT NAME - 17

PLOT BY : HILLIARD, MARC PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

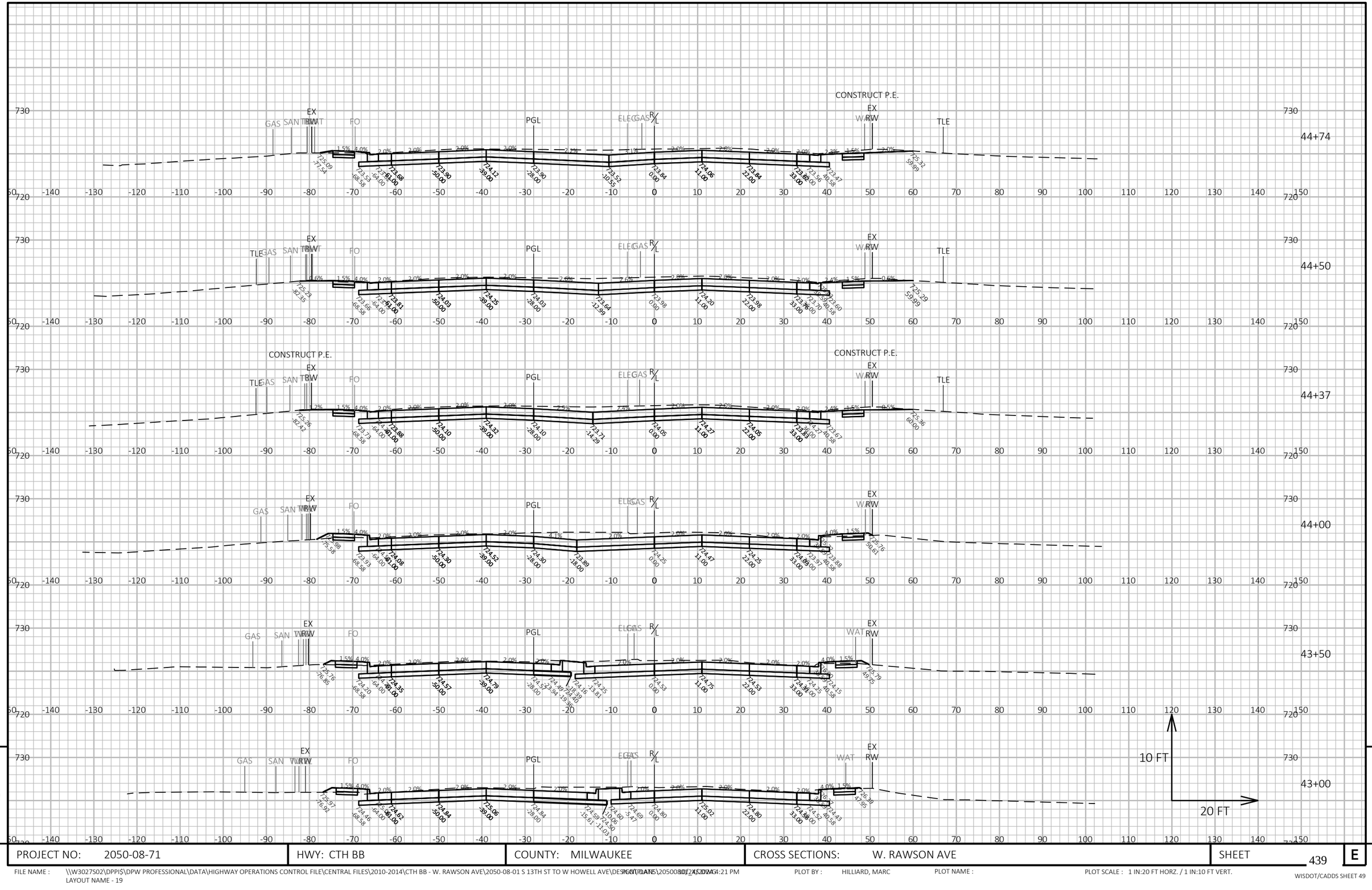
9

PROJECT NO: 2050-08-71	HWY: CTH BB	COUNTY: MILWAUKEE	CROSS SECTIONS: W. RAWSON AVE	SHEET 438	E

FILE NAME : \\W3027S02\DPPI$\DPW PROFESSIONAL\DATA\HIGHWAY OPERATIONS CONTROL FILE\CENTRAL FILES\2010-2014\CTH BB - W. RAWSON AVE\2050-08-01 S 13TH ST TO W HOWELL AVE\DESIGN\PLANS\2050080102_XSDW.dgn 10/24/2014 4:21 PM
LAYOUT NAME - 18

PLOT BY : HILLIARD, MARC PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

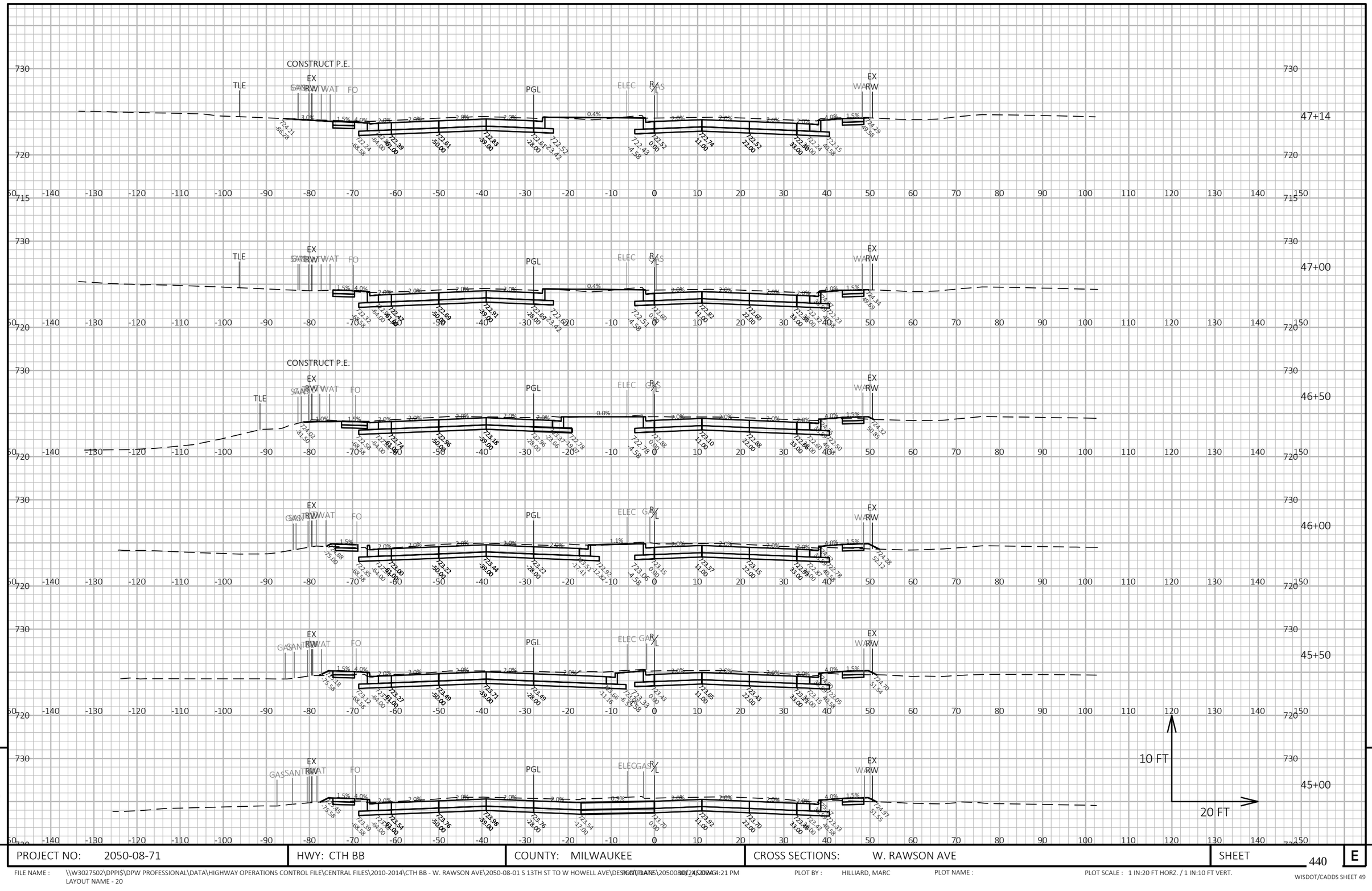


9

9

PROJECT NO: 2050-08-71	HWY: CTH BB	COUNTY: MILWAUKEE	CROSS SECTIONS: W. RAWSON AVE	SHEET 439	E

FILE NAME : \\W3027S02\DPPIS\DPW PROFESSIONAL\DATA\HIGHWAY OPERATIONS CONTROL FILE\CENTRAL FILES\2010-2014\CTH BB - W. RAWSON AVE\2050-08-01 S 13TH ST TO W HOWELL AVE\DESIGN\PLANS\2050080102_XSDWG.dgn
LAYOUT NAME - 19
10/24/2024 4:21 PM
PLOT BY : HILLIARD, MARC
PLOT NAME :
PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.
WISDOT/CADDS SHEET 49

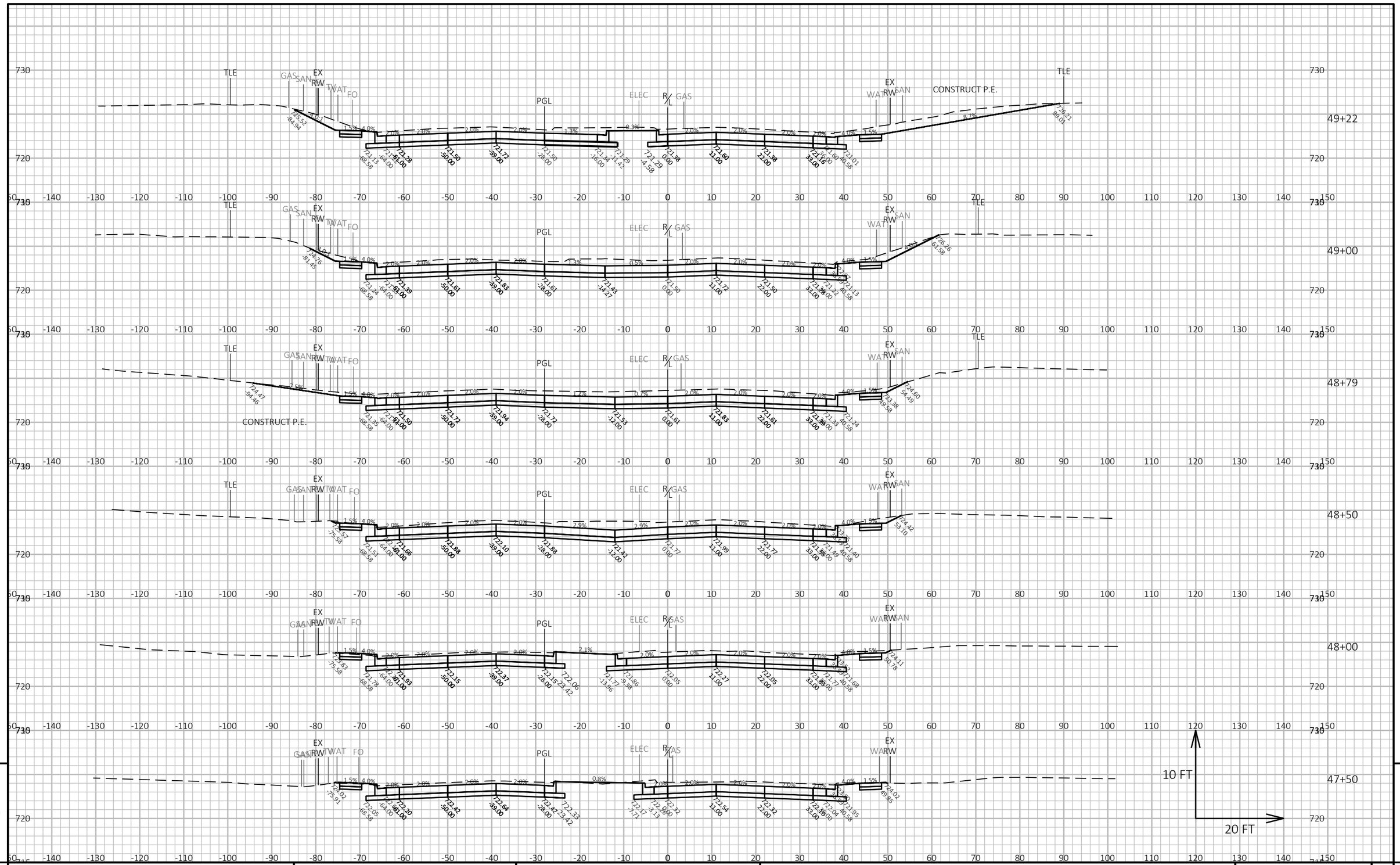


9

9

PROJECT NO: 2050-08-71	HWY: CTH BB	COUNTY: MILWAUKEE	CROSS SECTIONS: W. RAWSON AVE	SHEET 440	E

FILE NAME : \\W3027S02\DPPIS\DPW PROFESSIONAL\DATA\HIGHWAY OPERATIONS CONTROL FILE\CENTRAL FILES\2010-2014\CTH BB - W. RAWSON AVE\2050-08-01 S 13TH ST TO W HOWELL AVE\DESIGN\PLANS\2050-08-01_X_SDWG
LAYOUT NAME - 20
PLOTTED : 10/25/2023 4:21 PM
PLOT BY : HILLIARD, MARC
PLOT NAME :
PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.
WISDOT/CADDS SHEET 49



9

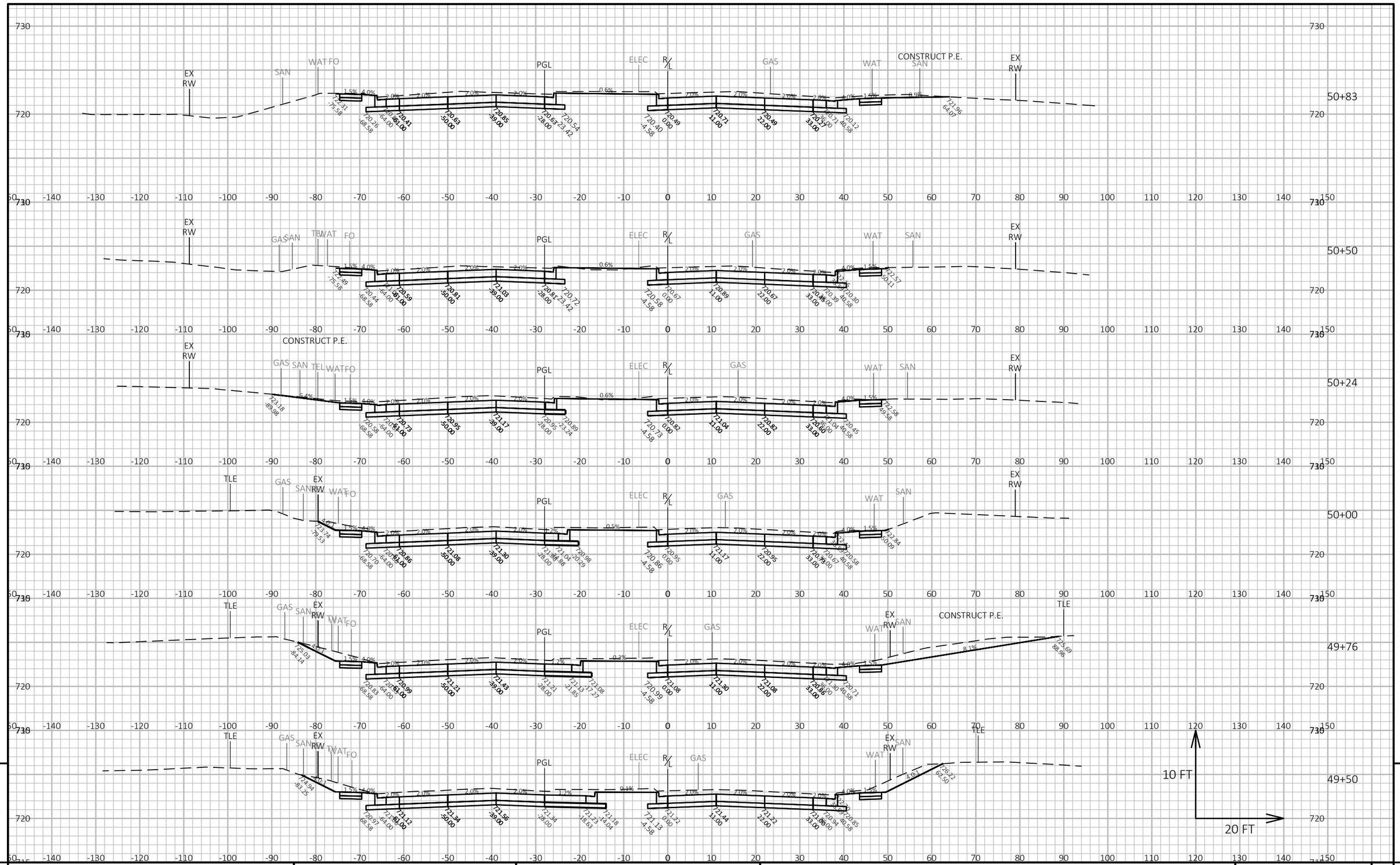
9

PROJECT NO: 2050-08-71	HWY: CTH BB	COUNTY: MILWAUKEE	CROSS SECTIONS: W. RAWSON AVE	SHEET 441	E

FILE NAME : \\W3027S02\DPPIS\DPW PROFESSIONAL\DATA\HIGHWAY OPERATIONS CONTROL FILE\CENTRAL FILES\2010-2014\CTH BB - W. RAWSON AVE\2050-08-01 S 13TH ST TO W HOWELL AVE\DESIGN\PLANS\2050080107_X_D2.DWG 4:21 PM
LAYOUT NAME - 21

PLOT BY : HILLIARD, MARC PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

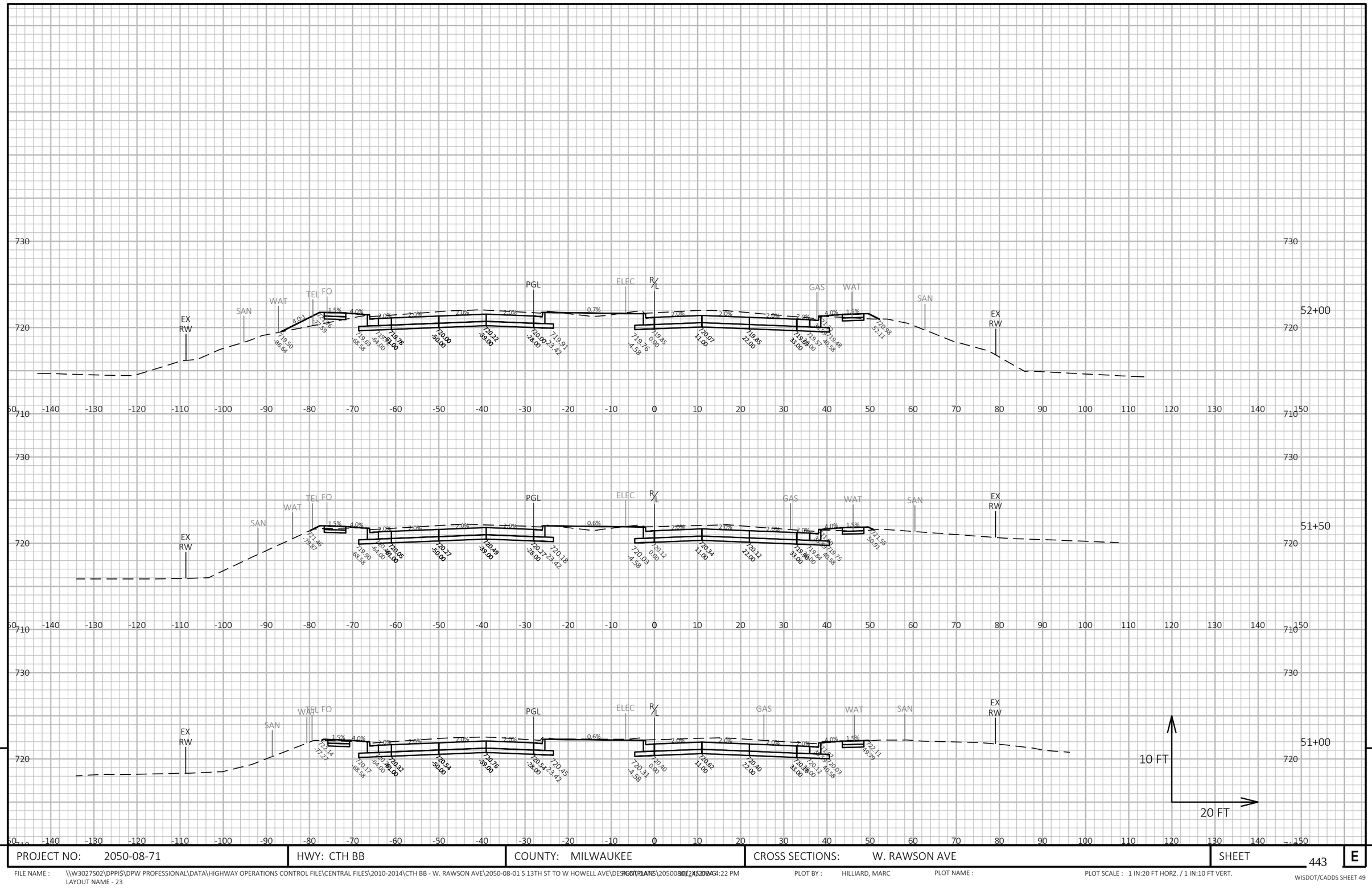


PROJECT NO: 2050-08-71	HWY: CTH BB	COUNTY: MILWAUKEE	CROSS SECTIONS: W. RAWSON AVE	SHEET 442 E

FILE NAME : \\W3027S02\DPPIS\DPW PROFESSIONAL\DATA\HIGHWAY OPERATIONS CONTROL FILE\CENTRAL FILES\2010-2014\CTH BB - W. RAWSON AVE\2050-08-01 S 13TH ST TO W HOWELL AVE\DESIGN\PLANS\2050080107_X_D2.DGN 10/24/2013 4:22 PM
LAYOUT NAME - 22

PLOT BY : HILLIARD, MARC PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

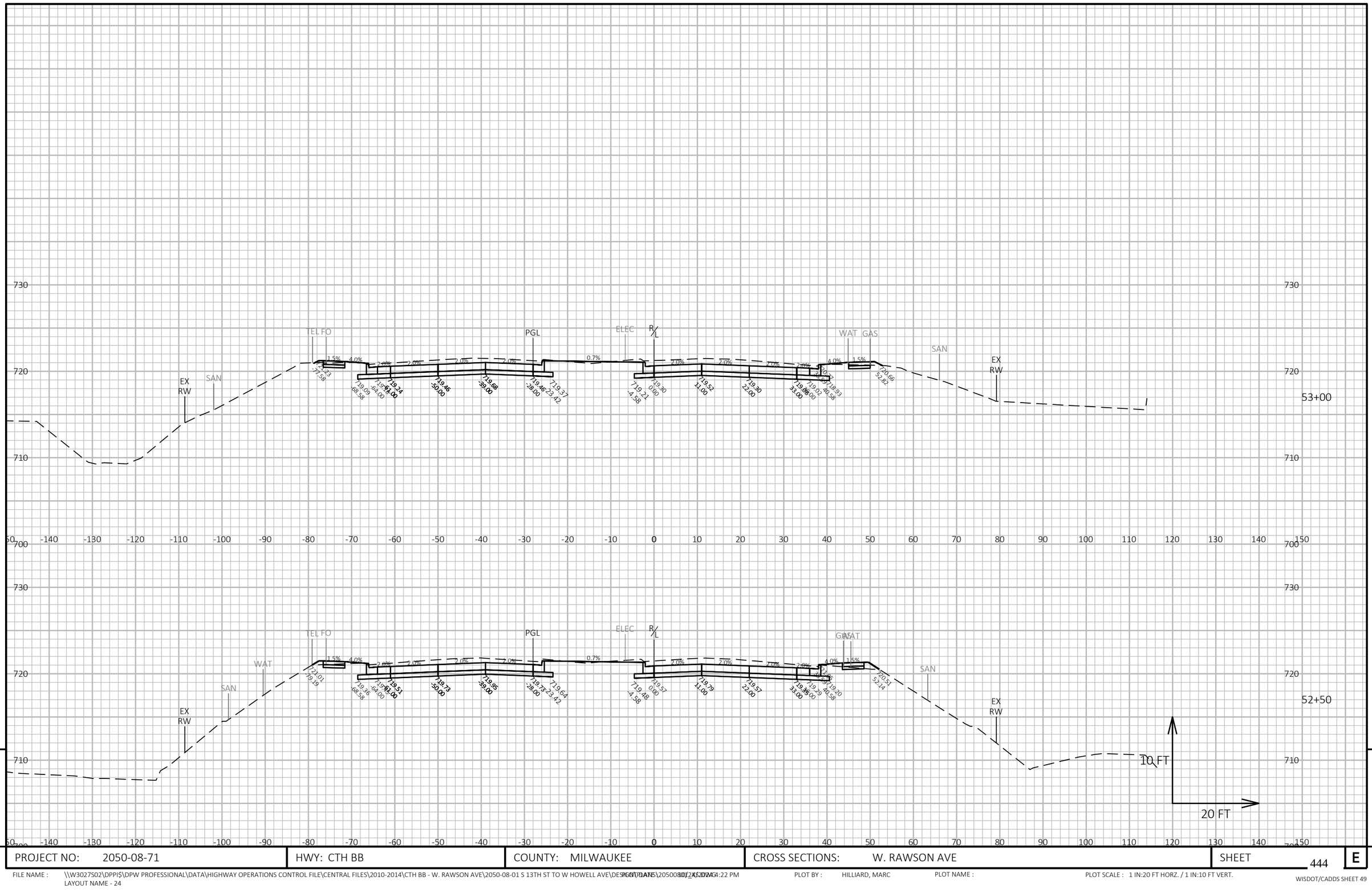


PROJECT NO: 2050-08-71	HWY: CTH BB	COUNTY: MILWAUKEE	CROSS SECTIONS: W. RAWSON AVE	SHEET 443 E

FILE NAME : \\W3027S02\DPPI$\DPW PROFESSIONAL\DATA\HIGHWAY OPERATIONS CONTROL FILE\CENTRAL FILES\2010-2014\CTH BB - W. RAWSON AVE\2050-08-01 S 13TH ST TO W HOWELL AVE\DESIGN\PLANS\2050080102_X_SHEET.dgn 10/24/2014 4:22 PM
LAYOUT NAME - 23

PLOT BY : HILLIARD, MARC PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

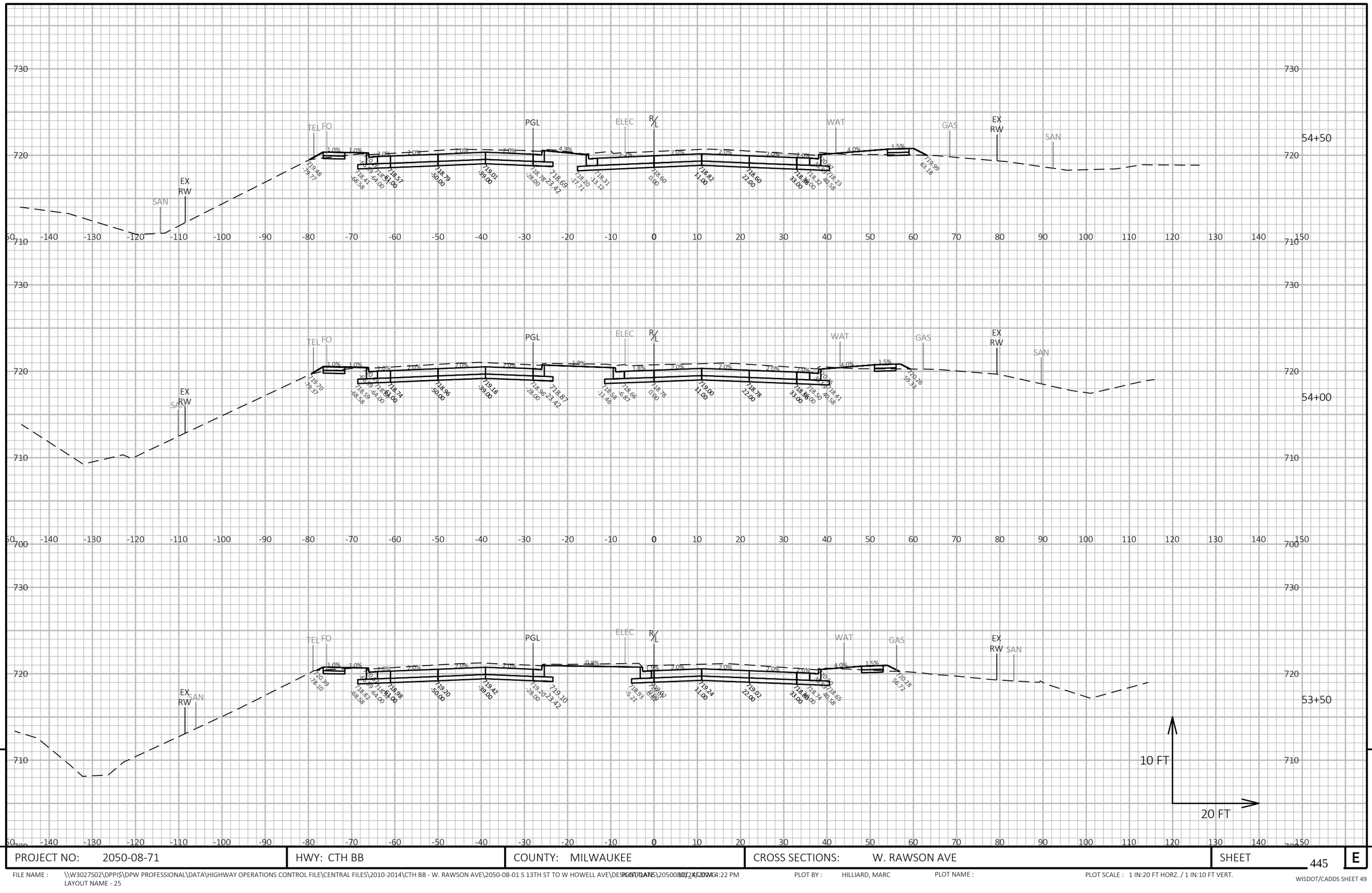


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PROJECT NO: 2050-08-71	HWY: CTH BB	COUNTY: MILWAUKEE	CROSS SECTIONS: W. RAWSON AVE	SHEET 444	E

FILE NAME : \\W3027S02\DPPIS\DPW PROFESSIONAL\DATA\HIGHWAY OPERATIONS CONTROL FILE\CENTRAL FILES\2010-2014\CTH BB - W. RAWSON AVE\2050-08-01 S 13TH ST TO W HOWELL AVE\DESIGN\PLANS\2050080102_XSDW3.dgn
LAYOUT NAME - 24
PLOTTED : 10/24/2024 4:22 PM
PLOT BY : HILLIARD, MARC
PLOT NAME :
PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.
WISDOT/CADDS SHEET 49

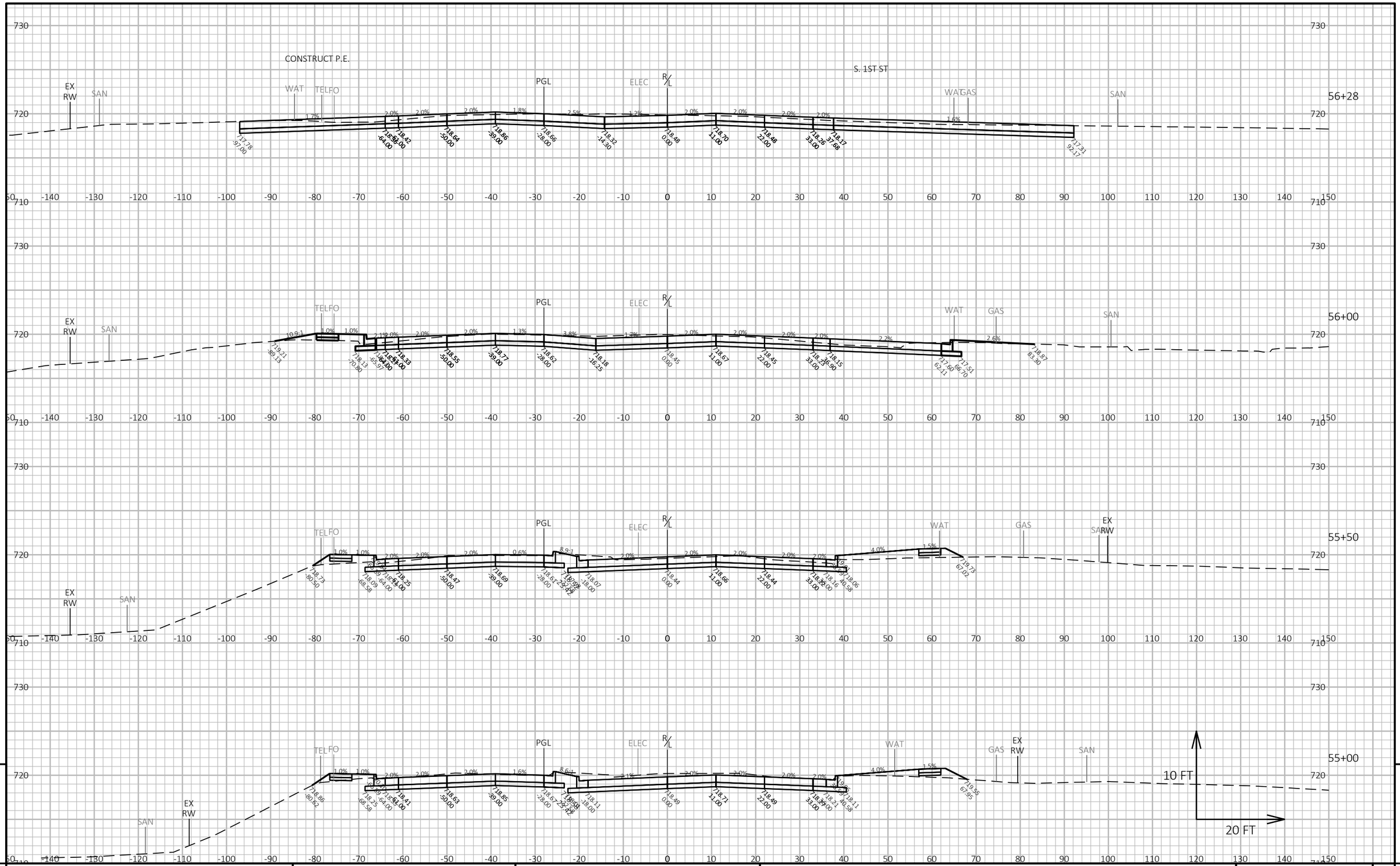


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PROJECT NO: 2050-08-71	HWY: CTH BB	COUNTY: MILWAUKEE	CROSS SECTIONS: W. RAWSON AVE	SHEET 445	E

FILE NAME : \\W3027S02\DPPIS\DPW PROFESSIONAL\DATA\HIGHWAY OPERATIONS CONTROL FILE\CENTRAL FILES\2010-2014\CTH BB - W. RAWSON AVE\2050-08-01 S 13TH ST TO W HOWELL AVE\DESIGN\PLANS\2050-08-71 XS.DGN
LAYOUT NAME - 25
PLOTTED : 10/24/2013 4:22 PM
PLOT BY : HILLIARD, MARC
PLOT NAME :
PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.
WISDOT/CADDS SHEET 49

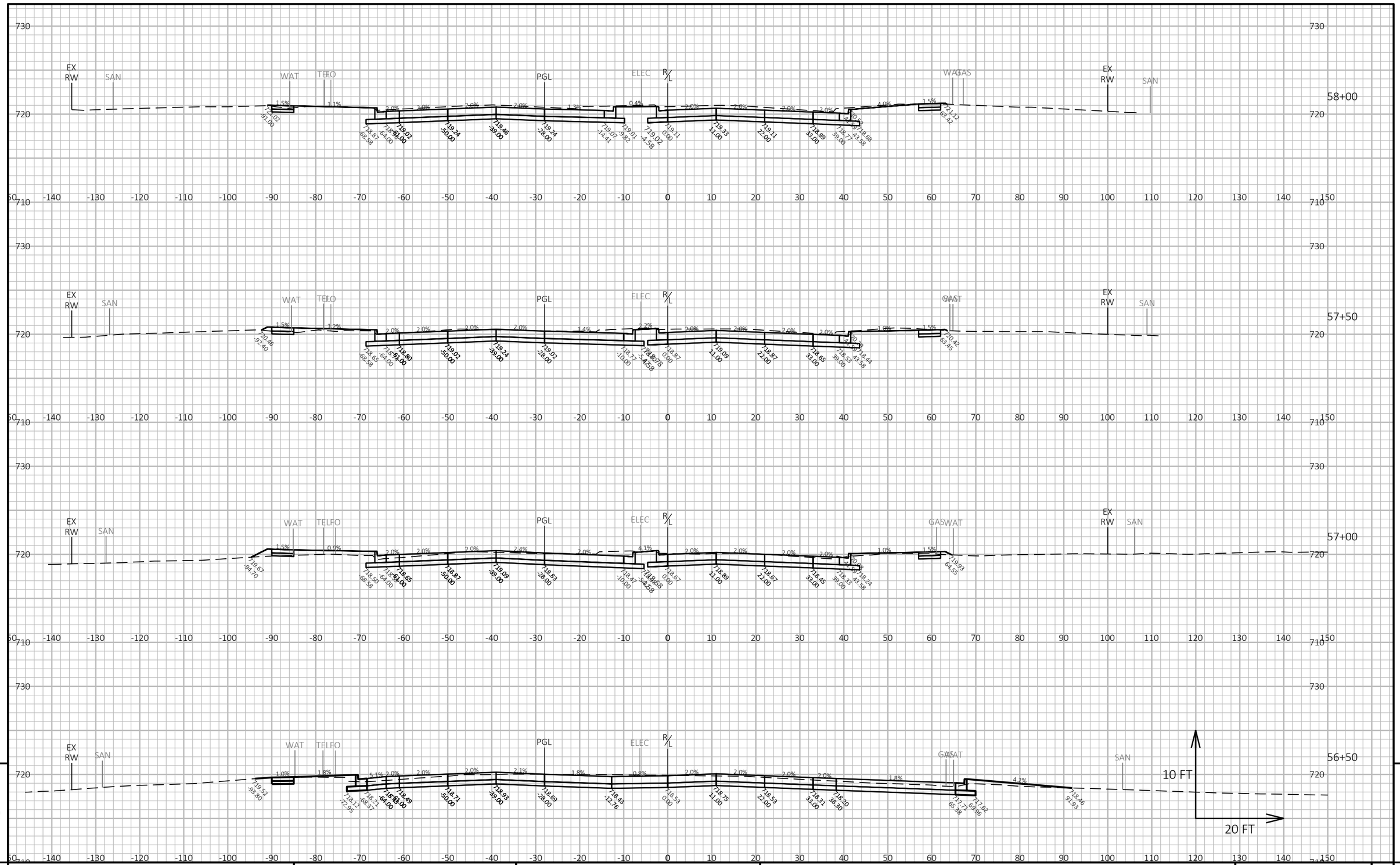


9

9

PROJECT NO: 2050-08-71	HWY: CTH BB	COUNTY: MILWAUKEE	CROSS SECTIONS: W. RAWSON AVE	SHEET 446	E

FILE NAME : \\W3027S02\DPPI$\DPW PROFESSIONAL\DATA\HIGHWAY OPERATIONS CONTROL FILE\CENTRAL FILES\2010-2014\CTH BB - W. RAWSON AVE\2050-08-01 S 13TH ST TO W HOWELL AVE\DESIGN\PLANS\2050080102_XSDWG.dgn
LAYOUT NAME - 26
10/24/2014 4:22 PM
PLOT BY : HILLIARD, MARC
PLOT NAME :
PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.
WISDOT/CADDS SHEET 49

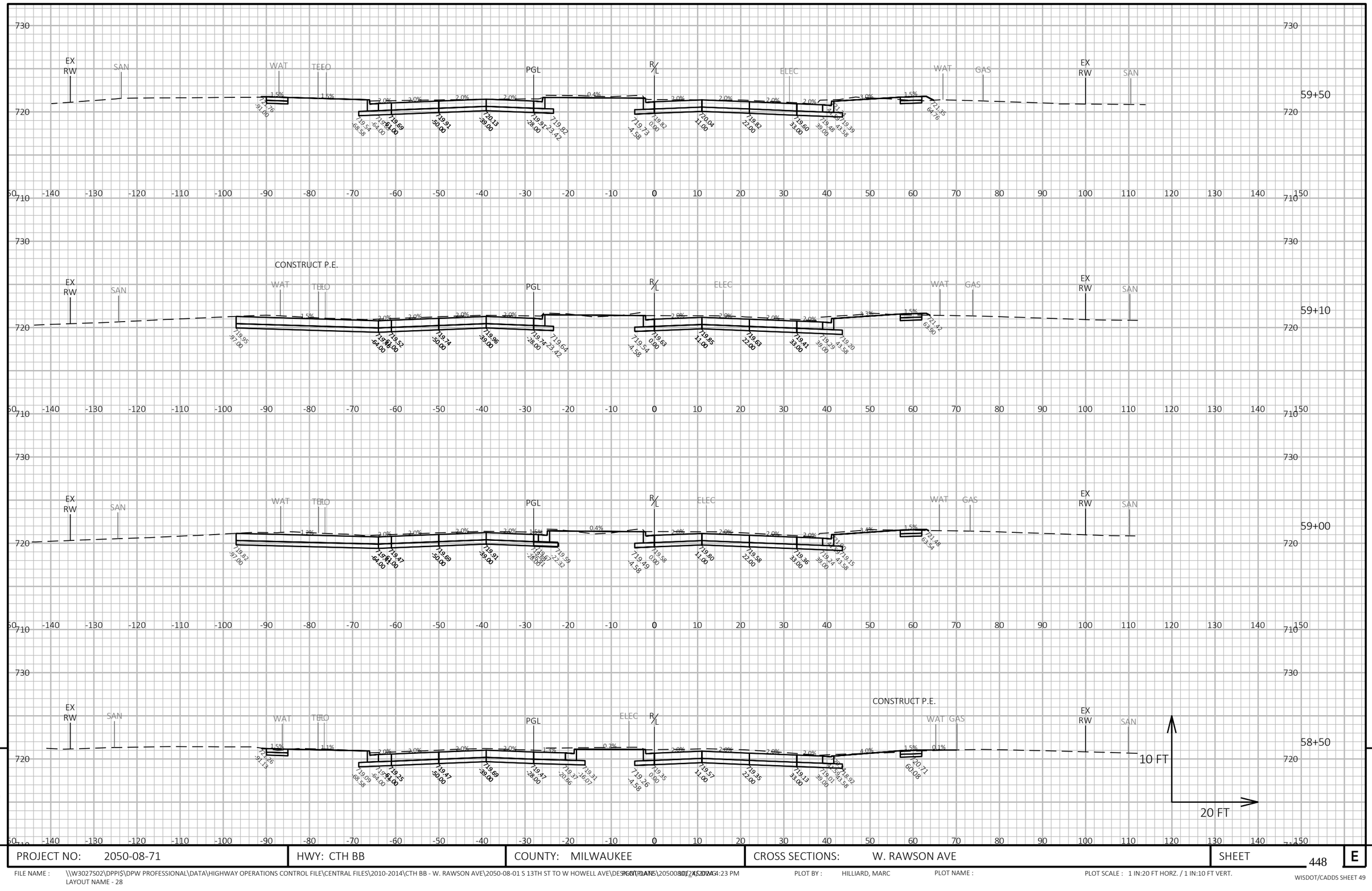


PROJECT NO: 2050-08-71	HWY: CTH BB	COUNTY: MILWAUKEE	CROSS SECTIONS: W. RAWSON AVE	SHEET 447 E

FILE NAME : \\W3027S02\DPPIS\DPW PROFESSIONAL\DATA\HIGHWAY OPERATIONS CONTROL FILE\CENTRAL FILES\2010-2014\CTH BB - W. RAWSON AVE\2050-08-01 S 13TH ST TO W HOWELL AVE\DESIGN\PLANS\2050080172_XSDW4.22 PM
LAYOUT NAME - 27

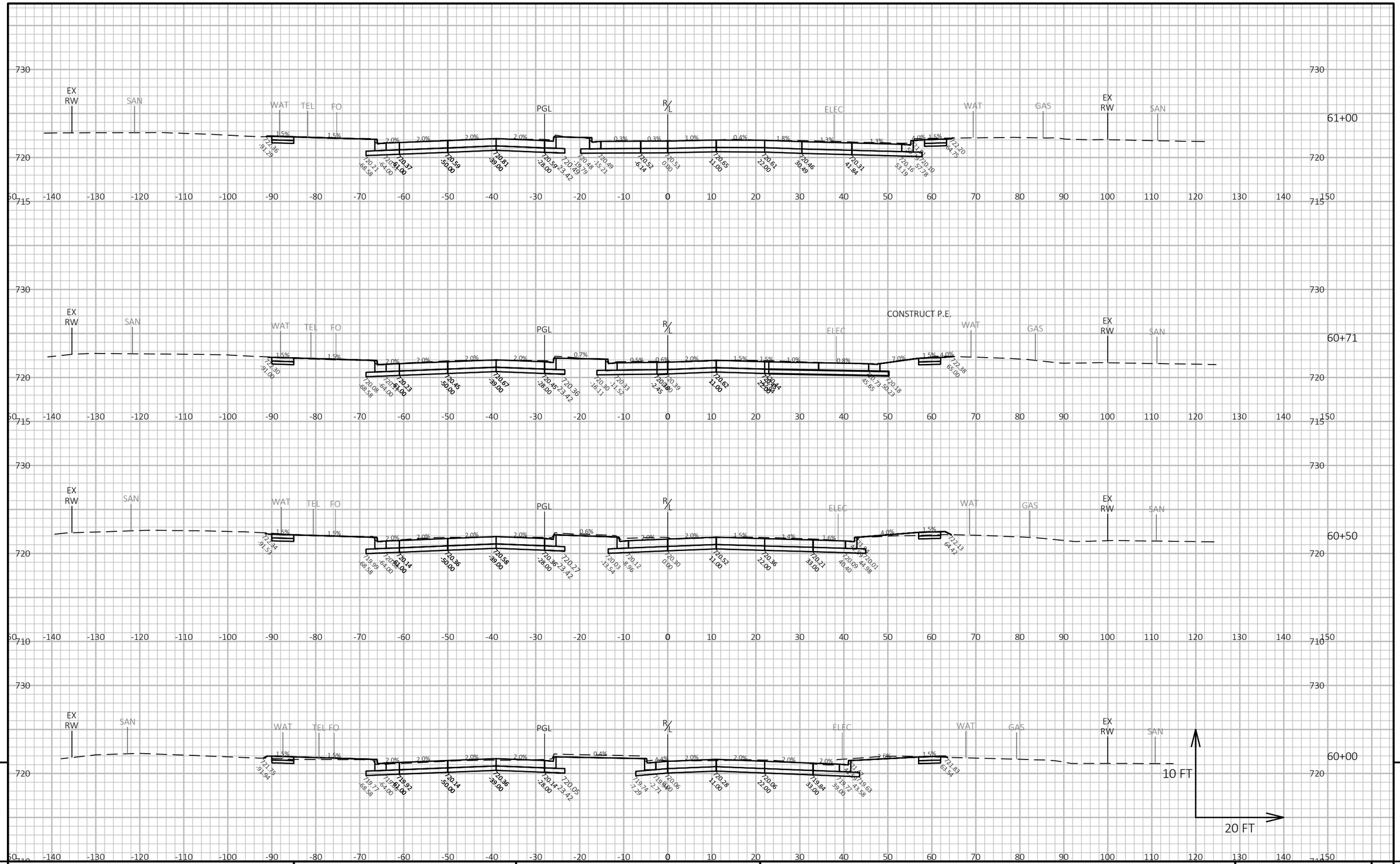
PLOT BY : HILLIARD, MARC PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



PROJECT NO: 2050-08-71	HWY: CTH BB	COUNTY: MILWAUKEE	CROSS SECTIONS: W. RAWSON AVE	SHEET 448 E

FILE NAME : \\W3027S02\DPPIS\DPW PROFESSIONAL\DATA\HIGHWAY OPERATIONS CONTROL FILE\CENTRAL FILES\2010-2014\CTH BB - W. RAWSON AVE\2050-08-01 S 13TH ST TO W HOWELL AVE\DESIGN\PLANS\2050080107_XS.DWG
LAYOUT NAME - 28
PLOTTED : 10/4/2013 4:23 PM
PLOT BY : HILLIARD, MARC
PLOT NAME :
PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.
WISDOT/CADDS SHEET 49



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9

PROJECT NO: 2050-08-71	HWY: CTH BB	COUNTY: MILWAUKEE	CROSS SECTIONS: W. RAWSON AVE	SHEET 449	E

FILE NAME : \\W3027S02\DPPIS\DPW PROFESSIONAL\DATA\HIGHWAY OPERATIONS CONTROL FILE\CENTRAL FILES\2010-2014\CTH BB - W. RAWSON AVE\2050-08-01 S 13TH ST TO W HOWELL AVE\DESIGN\PLANS\2050080102_X_DWG.dgn
LAYOUT NAME - 29
10/24/2013 4:23 PM
PLOT BY : HILLIARD, MARC
PLOT NAME :
PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.
WISDOT/CADDS SHEET 49

END STATION
62+37

EX RW
ELEC
WAT
GAS
EX RW
62+26

EX RW
SAN
ELEC
WAT
GAS
EX RW
62+00

EX RW
SAN
WAT
TEL
ELEC
WAT
GAS
EX RW
SAN
61+50

EX RW
SAN
WAT
TEL
FO
PGL
ELEC
WAT
GAS
EX RW
SAN
61+41

EX RW
SAN
WAT
TEL
FO
PGL
R/L
ELEC
WAT
GAS
EX RW
SAN
10 FT
20 FT
61+38

9

9

PROJECT NO: 2050-08-71	HWY: CTH BB	COUNTY: MILWAUKEE	CROSS SECTIONS: W. RAWSON AVE	SHEET 450	E

FILE NAME : \\W3027S02\DPPIS\DPW PROFESSIONAL\DATA\HIGHWAY OPERATIONS CONTROL FILE\CENTRAL FILES\2010-2014\CTH BB - W. RAWSON AVE\2050-08-01 S 13TH ST TO W HOWELL AVE\DESIGN\PLANS\2050-08-71_XSDW3.dgn
LAYOUT NAME - 30
PLOTTED : 10/24/2014 4:23 PM
PLOT BY : HILLIARD, MARC
PLOT NAME :
PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

Notes

Wisconsin Department of Transportation

Dedicated people creating transportation solutions
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