Section No.

Section No.

Section No.

Section No.

Section No.

TOTAL SHEETS =

Miscellaneous Quantities

Standard Detail Drawings

Computer Earthwork Data

Plan and Profile

Cross Sections

COMBUSTIBLE FLUIDS

WOODED OR SHRUB AREA

MARSH AREA

FEBRUARY 2022 STATE OF WISCONSIN ORDER OF SHEETS Section No. DEPARTMENT OF TRANSPORTATION Section No. Typical Sections and Details Estimate of Quantities Section No.

- PROJECT LOCATION

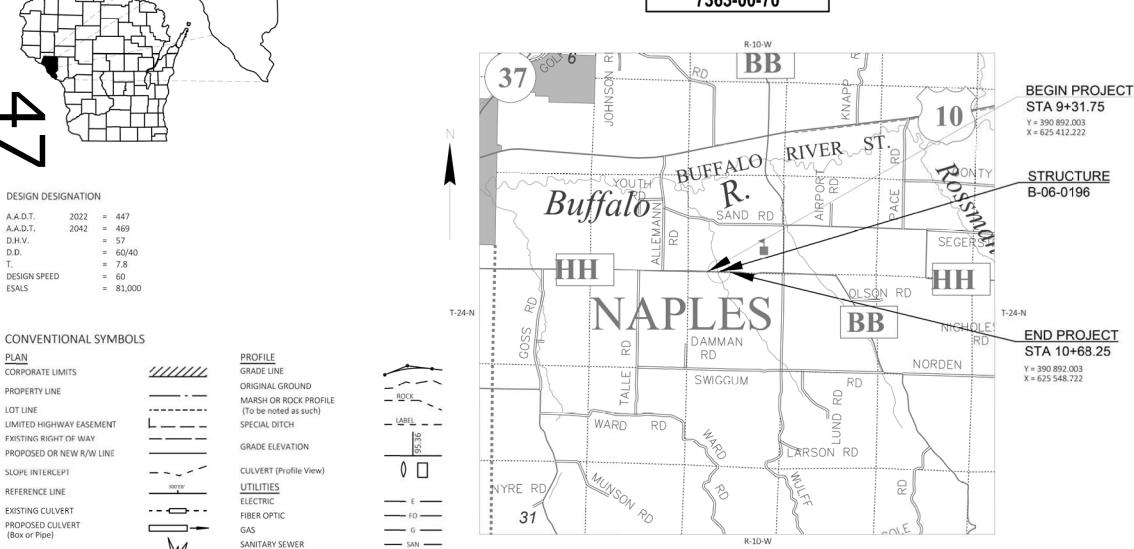
PLAN OF PROPOSED IMPROVEMENT

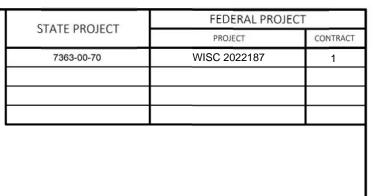
CTH H - CTH Y

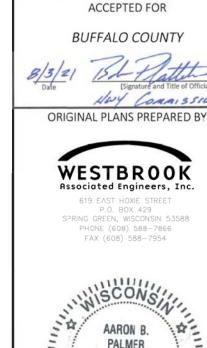
BR BUFFALO RIVER BRIDGE B-06-0196

CTH HH **BUFFALO**

STATE PROJECT NUMBER 7363-00-70







STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

PALMER E-35695

RICHLAND CENTER.

PREPARED BY Surveyor Designer

WESTBROOK ASSOCIATED ENGINEERS, INC

TYLER RONGSTAD, PE

Ε

Project Manage

PPROVED FOR THE DEPARTME ATE: 10/19/2021

STORM SEWER

UTILITY PEDESTAL

TELEPHONE POLE

q.

Ø

POWER POLE

TELEPHONE

TOTAL NET LENGTH OF CENTERLINE = 0.0259 MI

10/5/2021 10:17 AM

SCALE I

ARE THE SAME AS GROUND DISTANCES. ELEVATIONS ARE REFERENCED

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

HORIZONTAL POSITIONS SHOWN ON THIS PLAN ARE WISCONSIN

COORDINATE REFERENCE SYSTEM (WISCRS), BUFFALO COUNTY,

NAD83 (2011), IN U.S. SURVEY FEET, POSITIONS SHOWN ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES

0-2

.20 .26

.23

SLOPE RANGE

(PERCENT)

2-6 6 & OVER

.30

.28

.37

HYDROLOGIC SOIL GROUP

SLOPE RANGE

(PERCENT)

.20 .34

.22 .28

2-6 6 & OVER

.26 .33

.27

34

.70 - .95

.70 - .80

.75 - .85

.40 - .60

Α

SLOPE RANGE

(PERCENT)

6 & OVER

.22

.24

.25 .32

TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = 0.16 ACRES

BE FERTILIZED, SEEDED, TEMPORARY SEEDED, AND MULCHED AS DIRECTED BY THE ENGINEER.

THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT AREA THAT ARE NOT SHOWN.

NO TREES OR SHRUBS ARE TO BE REMOVED WITHOUT APPROVAL OF THE ENGINEER

REQUIRE A SAWCUT MEETING THE APPROVAL OF THE ENGINEER IN THE FIELD.

MAINTAIN ACCESS TO FIELD ENTRANCES FOR THE DURATION OF THE PROJECT.

THE PROPOSED NAME PLATE WILL BE PLACED, AS DIRECTED BY THE ENGINEER.

COUNTY, HORIZONTAL DATUM NAD83 (2011), ELEVATION DATUM NAVD88 (2012).

SIZE AGGREGATE AND A 1 3/4-INCH UPPER LAYER OF 12.5 MM NOMINAL SIZE AGGREGATE.

EROSION CONTROL ITEMS TO BE PLACED AS SHOWN ON THE PLAN OR AS DIRECTED BY THE ENGINEER. SILT FENCE

EROSION CONTROL FEATURES AS SHOWN ON THE PLANS ARE SUGGESTED LOCATIONS. EXACT LOCATIONS WILL BE

DISTURBED AREAS WITHIN THE RIGHT-OF-WAY, EXCEPT THE AREAS WITHIN THE FINISHED SHOULDER POINTS, SHALL

THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS AS SHOWN ON THE PLANS ARE APPROXIMATE.

D.O.T. MONUMENT IS TO BE FURNISHED BY THE STATE AND PLACED BY THE CONTRACTOR IN THE SAME WING THAT

COORDINATES ON THIS PLAN ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM (WCCS), BUFFALO

THE 4-INCH ASPHALTIC SURFACE SHALL BE CONSTRUCTED USING A 2 1/4-INCH LOWER LAYER OF 19 MM NOMINAL

REMOVAL OF ASPHALTIC SURFACES WHERE AN ABUTTING ASPHALTIC SURFACE IS TO REMAIN IN PLACE SHALL

0-2

.19

2-6

.16 .30

.20 .26

AND TURBIDITY BARRIER SHALL BE IN PLACE PRIOR TO CONSTRUCTION.

0-2

.08

.19 .24

D

SLOPE RANGE

(PERCENT)

2-6 6 & OVER

.30

.40

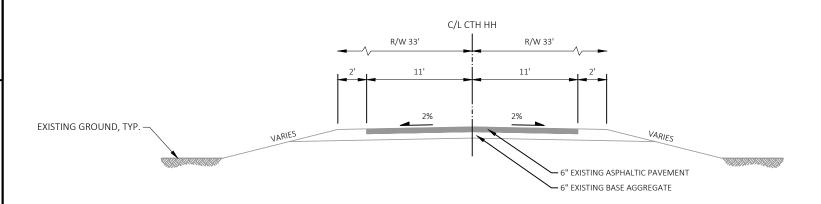
.30

38

0-2

.20 .27

.25 .32



EXISTING TYPICAL SECTION

STA. 9+31.75 - 10+68.25

C/L CTH HH R/W 33' R/W 33' 18' CLEAR ZONE 18' CLEAR ZONE 11' 11' DRIVING LANE DRIVING LANE LIMITS OF SEEDING, TEMPORARY SEEDING, FERTILIZER, & MULCH LIMITS OF SEEDING, TEMPORARY SEEDING, FERTILIZER, & MULCH LIMITS OF SALVAGED TOPSOIL LIMITS OF SALVAGED TOPSOIL VARIES VARIES TYP. TYP. 4:1 TYP. POINT REFERRED TO BASE AGGREGATE DENSE 3/4-INCH -4" ASPHALTIC SURFACE ON CROSS SECTION · 12" BASE AGGREGATE DENSE 11/4-INCH \angle EXISTING GROUND, TYP. PROPOSED TYPICAL SECTION - CTH HH

STA. 9+31.75 - 10+68.25

CONSULTANT LIAISON

WESTBROOK ASSOCIATED

619 EAST HOXIE STREET

SPRING GREEN, WI 53588

ATTN: AARON PALMER, P.E.

apalmer@westbrookeng.com

ENGINEERS, INC.

PH: (608) 588-7866

FAX: (608) 588-7954

ASPHALTIC SURFACE CALCULATIONS ARE BASED ON 112 LB/SY/IN STANDARD ABBREVIATIONS AADT ANNUAL AVERAGE DAILY TRAFFIC L.F. LINEAR FEET

LAND USE

TURF SIDE SLOPE-

TURF

BRICK DRIVES, WALKS

PAVEMENT

ASPHALT

CONCRETE

GRAVEL ROADS, SHOULDERS

GENERAL NOTES

TOTAL PROJECT AREA = 0.21 ACRES

DETERMINED BY THE ENGINEER IN THE FIELD.

ROW CROPS

MEDIAN STRIP-

, , , ,	/ II 11 10 / IE / 11 E I I 10 E E / II E I 1 1 I I I I I I I		,		
AAG.	AGGREGATE	L.H.F.	LEFT HAND FORWARD	RT.	RIGHT
B.M.	BENCH MARK	L.S.	LUMP SUM	R/W	RIGHT-OF-WAY
C OR CL	CENTERLINE	LT.	LEFT	RD.	ROAD
CR.	CRUSHED	MAX.	MAXIMUM	RDWY.	ROADWAY
C.T.H.	COUNTY TRUNK HIGHWAY	MIN.	MINIMUM	S.	SOUTH
CWT.	HUNDREDWEIGHT	N.	NORTH	SE	SOUTHEAST
C.Y.	CUBIC YARD	NOR.	NORMAL	SHRK.	SHRINKAGE
D.H.	DOUBLE HEADED	PAV'T.	PAVEMENT	S.R.	SIDE ROAD
D.H.V.	DESIGN HOURLY VOLUME	P.C.	POINT OF CURVE	STD.	STANDARD
DIR.	DIRECTED	P.I.	POINT OF INTERSECTION	S.T.H.	STATE TRUNK HIGHWAY
E.	EAST	P.E.	PRIVATE ENTRANCE	STA.	STATION
COR.	CORNER	P.K.	PARKER-KALON NAIL	S.Y.	SQUARE YARD
EL. OR ELEV.	ELEVATION	P OR PL	PROPERTY LINE	T	TANGENT LENGTH OF CURVE
F.E.	FIELD ENTRANCE	P.P.	POWER POLE	T	TRANSIT LINE
FT.	FOOT (FEET)	PROJ.	PROJECT	UNCL.	UNCLASSIFIED EXCAVATION
GAL.	GALLON	P.T.	POINT OF TANGENCY	V.	DESIGN SPEED
H.W.	HIGH WATER	PVMT.	PAVEMENT	V.C.	VERTICAL CURVE
IN.	INCHES	R.	RADIUS	VAR.	VARIABLE
K	SIGHT DISTANCE	R.R.	RAILROAD	W.	WEST
L.	LENGTH OF CURVE	REINF.	REINFORCED		

PROJECT NO: 7363-00-70 HWY: CTH HH

PLOT DATE :

COUNTY LIAISON

S1672 STH 37

ALMA, WI 54610

ALMA HIGHWAY SHOP

12/13/2021 12:43 PM

ERIK MEYER PLOT BY:

GENERAL NOTES & TYPICAL SECTIONS

PLOT NAME

PLOT SCALE :

SHEET

1 IN:10 FT

REQ'D

Ε

ATTN: AMY LESIK ATTN:BOB PLATTETER PH: (715) 836-6571 ATTO:(608) 685-6226 AmyL.Lesik@wisconsin.gov Bob.Platteter@co.buffalo.wi.us

ORDER OF SECTION 2 SHEETS GENERAL NOTES & TYPICAL SECTIONS

CONTACTS

WDNR LIAISON

EAU CLAIRE, WI 54701

DNR WEST CENTRAL REGION HQ

1300 WEST CLAIREMONT AVENUE

COUNTY: BUFFALO

REQUIRED

G:\00-PROJECT FILES\2019\19163 CTH HH, BUFFALO COUNTY ID 7363-00-00\0-CAD\SHEETSPLAN\020101 GN.DWG

FILE NAME

Dial 811 or (800)242-8511

www.DiggersHotline.com

WISDOT/CADDS SHEET 42

					7363-00-70
Line	Item	Item Description	Unit	Total	Qty
0002	203.0260	Removing Structure Over Waterway Minimal Debris (structure) 01. P-06-0116	EACH	1.000	1.000
0004	205.0100	Excavation Common	CY	237.000	237.000
0006	206.1000	Excavation for Structures Bridges (structure) 01. B-06-0196	LS	1.000	1.000
8000	210.1500	Backfill Structure Type A	TON	300.000	300.000
0010	213.0100	Finishing Roadway (project) 01. 7363-00-70	EACH	1.000	1.000
0012	305.0110	Base Aggregate Dense 3/4-Inch	TON	14.000	14.000
0014	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	260.000	260.000
0016	455.0605	Tack Coat	GAL	20.000	20.000
0018	465.0105	Asphaltic Surface	TON	60.000	60.000
0020	502.0100	Concrete Masonry Bridges	CY	137.000	137.000
0022	502.3200	Protective Surface Treatment	SY	186.000	186.000
0024	505.0400	Bar Steel Reinforcement HS Structures	LB	4,760.000	4,760.000
0026	505.0600	Bar Steel Reinforcement HS Coated Structures	LB	17,110.000	17,110.000
0028	513.7084	Railing Steel Type NY4	LF	78.000	78.000
0030	516.0500	Rubberized Membrane Waterproofing	SY	14.000	14.000
0032	550.2106	Piling CIP Concrete 10 3/4 X 0.365-Inch	LF	1,260.000	1,260.000
0034	606.0300	Riprap Heavy	CY	96.000	96.000
0036	612.0406	Pipe Underdrain Wrapped 6-Inch	LF	150.000	150.000
0038	618.0100	Maintenance And Repair of Haul Roads (project) 01. 7363-00-70	EACH	1.000	1.000
0040	619.1000	Mobilization	EACH	1.000	1.000
0042	624.0100	Water	MGAL	2.800	2.800
0044	625.0500	Salvaged Topsoil	SY	215.000	215.000
0046	627.0200	Mulching	SY	440.000	440.000
0048	628.1504	Silt Fence	LF	330.000	330.000
0050	628.1520	Silt Fence Maintenance	LF	660.000	660.000
0052	628.1905	Mobilizations Erosion Control	EACH	3.000	3.000
0052	628.1910	Mobilizations Emergency Erosion Control	EACH	3.000	3.000
0056	628.6005	Turbidity Barriers	SY	120.000	120.000
0058	629.0210	Fertilizer Type B	CWT	0.280	0.280
0060	630.0130	Seeding Mixture No. 30	LB	10.000	10.000
0062	630.0200	Seeding Temporary	LB	15.000	15.000
0064	630.0500	Seed Water	MGAL	5.000	5.000
0066	634.0612	Posts Wood 4x6-Inch X 12-FT	EACH	4.000	4.000
0068	637.2230	Signs Type II Reflective F	SF	12.000	12.000
0070	638.2602	0 71	EACH	6.000	6.000
		Removing Signs Type II			
0072	638.3000	Removing Small Sign Supports	EACH	6.000	6.000
0074	642.5001	Field Office Type B	EACH	1.000	1.000
0076	643.0420	Traffic Control Barricades Type III	DAY	1,260.000	1,260.000
0078	643.0705	Traffic Control Warning Lights Type A	DAY	2,520.000	2,520.000
0800	643.0900	Traffic Control Signs	DAY	1,120.000	1,120.000
0082	643.5000	Traffic Control	EACH	1.000	1.000
0084	645.0111	Geotextile Type DF Schedule A	SY	72.000	72.000
0086	645.0120	Geotextile Type HR	SY	179.000	179.000
8800	650.4500	Construction Staking Subgrade	LF	100.000	100.000
0090	650.5000	Construction Staking Base	LF	100.000	100.000
0092	650.6500	Construction Staking Structure Layout (structure) 01. B-06-0196	LS	1.000	1.000
0094	650.9910	Construction Staking Supplemental Control (project) 01. 7363-00-70	LS	1.000	1.000
0096	650.9920	Construction Staking Slope Stakes	LF	100.000	100.000
0098	690.0150	Sawing Asphalt	LF	44.000	44.000

11/24/2021 10:09:58

Estimate Of Quantities Page 2

7363-0	00-70	
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Line	Item	Item Description	Unit	Total	Qty
0100	715.0502	Incentive Strength Concrete Structures	DOL	822.000	822.000
0102	999.2000.S	Installing and Maintaining Bird Deterrent System (station) 01. 10+00	EACH	1.000	1.000
0104	ASP.1T0A	On-the-Job Training Apprentice at \$5.00/HR	HRS	300.000	300.000
0106	ASP.1T0G	On-the-Job Training Graduate at \$5.00/HR	HRS	300.000	300.000

21 10.09.30

NOTE: ALL ITEMS CATEGORY 0010 UNLESS OTHERWISE NOTED.

EARTHWORK SUMMARY

STATION -	STATION	94.3hANe/An-aBreduktam	COMMON EXCAVATION (1) (ITEM # 205.0100) CUT	Company of the Company of the Company	tenioro, sun control y activi	UNEXPANDED FILL	EXPANDED FILL (5) FACTOR	MASS ORDINATE +/- (6)	BORROW	COMMENT:
			(2)	(3)			1.25		(ITEM # 208.0100)	
9+31.75 -	9+81.75	WESTAPPROACH	115	26	89	10	13	77	-	
10+18.25 -	10+68.25	EASTAPPROACH	122	30	92	24	30	62	3	
		TOTALS	237	56	181	34	43	139	0	

BASE AGGREGATE DENSE

STATION		STATION	LOCATION	3/4-INCH SHLD. (TON)	1 1/4-INCH BASE (TON)	624.0100 WATER (MGAL)
9+32	5	9+82	WEST APPROACH	7	130	1.4
10+18	7	10+68	EAST APPROACH	7	130	1.4
			TOTALS	14	260	2.8

- 1) COMMON EXCAVATION IS THE CUT. ITEM #205.0100.
- 2) SALVAGED/UNUSABLE MATERIAL IS INCLUDED IN CUT.
- 3) SALVAGED/UNUSABLE MATERIAL INCLUDES ASPHATLIC PAVEMENT.
- 4) AVAILABLE MATERIAL = CUT SALVAGED/UNUSABLE MATERIAL
- 5) EXPANDED FILL FACTOR = 1.25: EXPANDED FILL = (UNEXPANDED FILL)*1.25
- 6) THE MASS ORDINATE + OR CALCULATED FOR THE DIVISION. PLUS QUANTITY INDICATES AN EXCESS OF MATERIAL WITHIN THE DIVISION. MINUS INDICATES A SHORTAGE OF MATERIAL IN THE DIVISION

ASPHALTIC ITEMS

				455.0600	465.0105
				TACK	ASPHALTIC
				COAT	SURFACE
STATION	-	STATION	LOCATION	(GAL)	(TON)
9+31.75	-	9+81.75	MAINLINE	10	30
10+18.25	-	10+68.25	MAINLINE	10	30
			TOTALS	20	60

FINISHING ITEMS

STATION	-	STATION	LOCATION	625.0500 SALVAGED TOPSOIL (SY)	627.0200 MULCHING (SY)	629.0210 FERTILIZER TYPEB (CWT)	630.0130 SEEDING MIXTURE NO. 30 (LB)	630.0200 SEEDING TEMPORARY (LB)	630.0500 SEED WATER (MGAL)
9+32	7	9+82	NORTHWEST	36	86	0.05	2	3	1.0
9+32	-	9+82	SOUTHWEST	37	81	0.05	2	3	1.0
10+18		10+68	NORTHEAST	53	95	0.06	2	3	1.0
10+18		10+68	SOUTHEAST	48	93	0.06	2	3	1.0
			UNDISTRIBUTED	41	85	0.06	2	3	1.0
			TOTALS	215	440	0.28	10	15	5.0

SILT FENCE

				628.1504 SILT FENCE	628.1520 SILT FENCE MAINTENANCE
STATION	-	STATION	LOCATION	(LF)	(LF)
9+32	-	9+82	MAINLINE, LT	60	120
9+32	_	9+82	MAINLINE, RT	70	140
10+18		10+68	MAINLINE, LT	70	140
10+18		10+68	MAINLINE, RT	65	130
			UNDISTRIBUTED	65	130
			TOTALS	330	660

TURBIDITY BARRIER

	628.6005
LOCATION	(SY)
WESTAPPROACH	60
EAST APPROACH	60
TOTALS	120

MOBILIZATIONS EROSION CONTROL

		628.1910
	628.1905	MOBILIZATIONS
	MOBILIZATIONS	EMERGENCY
	EROSION CONTROL	EROSION CONTROL
LOCATION	(EACH)	(EACH)
7363-00-70	3	3
TOTALS	3	3

SIGNING

STATION	LOCATION	SIGN CODE	634.0612 POSTS WOOD 4X6-INCH X 12-FT (EACH)	637.2230 SIGNS TYPE II REFLECTIVE TYPE F (SF)	638.2602 REMOVING SIGN TYPE II (EACH)	638.3000 REMOVING SMALL SIGN SUPPORTS (EACH)	NOTES
9+75	RT	29	27	120	1	1	LOAD POSTING
9+81	RT	W5-52R	1	3	1	1	BRIDGE HASH MARKS
9+81	LT	W5-52L	1	3	1	1	BRIDGE HASH MARKS
10+20	LT	W5-52L	1	3	1	1	BRIDGE HASH MARKS
10+20	RT	W5-52R	1	3	1	1	BRIDGE HASH MARKS
10+25	LT	-	-	-	1	1	LOAD POSTING
	-	TOTAL	4	12	6	6	

PROJECT NO: 7363-00-70

FILE NAME :

G:\00-PROJECT FILES\2019\19163 CTH HH, BUFFALO COUNTY ID 7363-00-00\0-CAD\SHEETSPLAN\030201_MQ.DWG

HWY: CTH HH

COUNTY: BUFFALO

PLOT DATE : 11/8/2021 11:11 AM PLOT BY: ERIK MEYER

MISCELLANEOUS QUANTITIES

PLOT NAME :

PLOT SCALE :

SHEET

TRAFFIC CONTROL

		TRAFFIC BARRI	0420 CONTROL CADES PE III	TRA FFIC WA RNIN	0705 CONTROL G LIGHTS PE A	TRAFFIC	0900 CONTROL GNS	643.5000 TRAFFIC CONTROL
LOCATION	DURATION	(NO.)	(DAY)	(NO.)	(DAY)	(NO.)	(DAY)	(EACH)
PROJECT		(10-2-2-2				1
WEST	70	8	560	16	1120	7	490	
EAST	70	8	560	16	1120	7	490	
UNDISTRIBUTED	70	2	140	4	280	2	140	
	TOTAL	18	1260	36	2520	16	1120	1

PLACE TRAFFIC CONTROL IN A CCORDANCE WITH SDD 15C02 "BARRICA DES AND SIGNS FOR MAINLINE CLOSURES". PLACEMENT SUBJECT TO ENGINEER APPROVAL.

CONSTRUCTION STAKING

						650.6500	650.9910	650.992
				650.4500	650.5000	STRUCTURE LAYOUT	SUPPLEMENTAL	SLOPE
				SUBGRADE	BASE	01. B-06-0196	CONTROL	STAKES
STATION	7.2	STATION	LOCATION	(LF)	(LF)	(LS)	(LS)	(LF)
9+32	, w	9+82	MAINLINE	50	50	1	-	50
10+18	-	10+68	MAINLINE	50	50	_	_	50
		-	PROJECT			1	1	
			TOTALS	100	100	1*	1	100

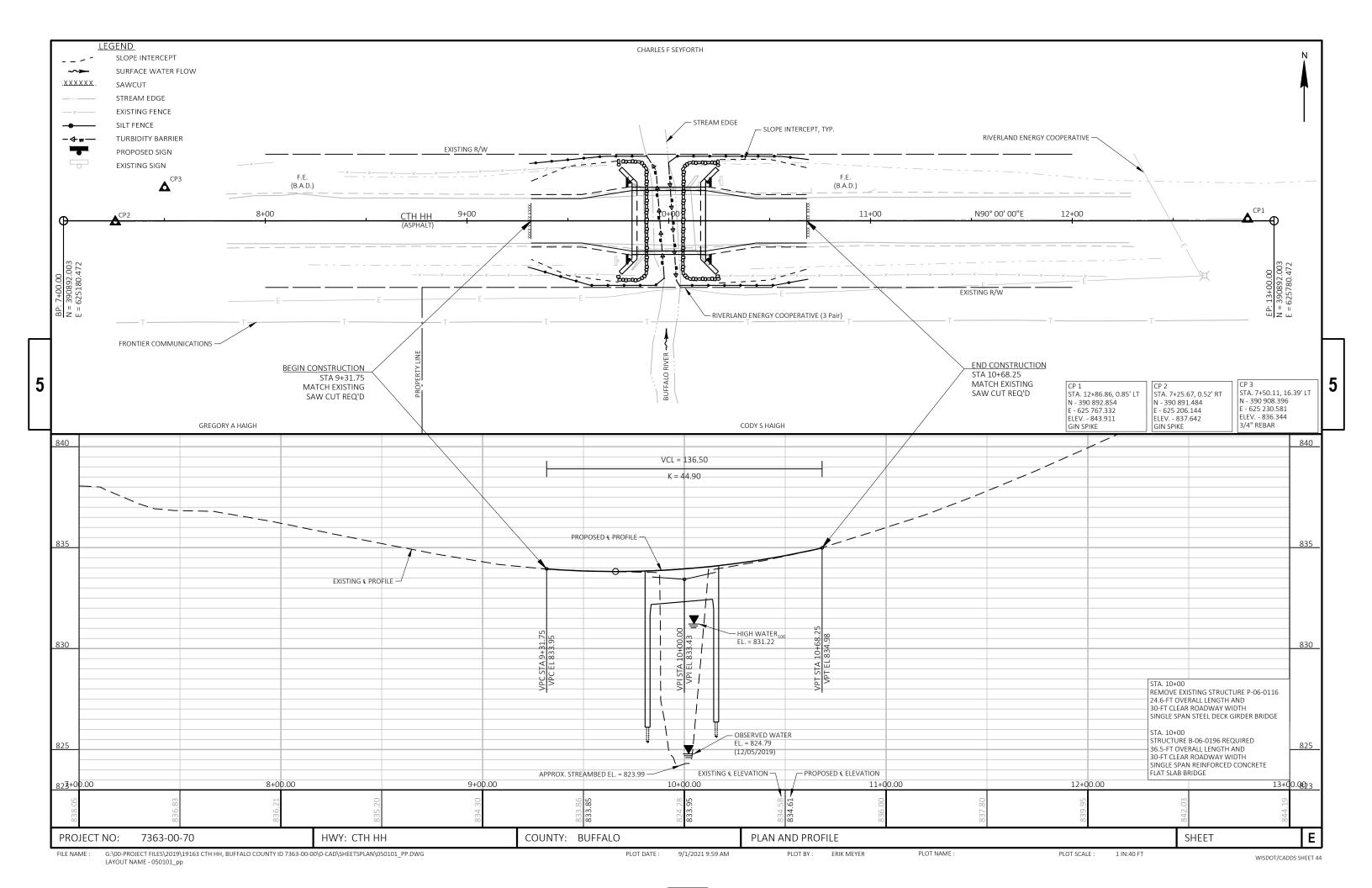
* CATEGORY 0020

FILE NAME :

SAWING ASPHALT

STATION	LOCATION	690.0150 (LF)
9+32	MAINLINE	22
10+68	MAINLINE	22
	TOTAL	44

PROJECT NO: 7363-00-70 HWY: CTH HH COUNTY: BUFFALO MISCELLANEOUS QUANTITIES SHEET **E**



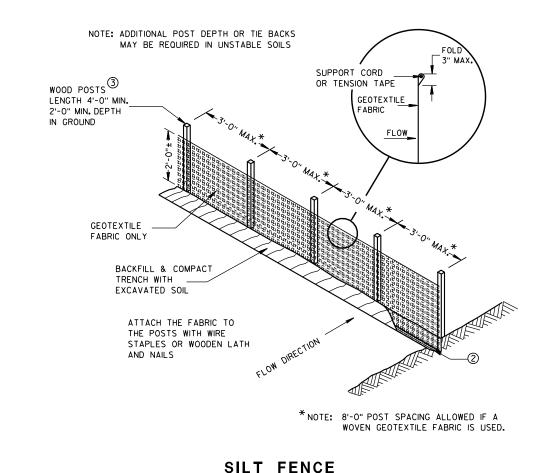
Standard Detail Drawing List

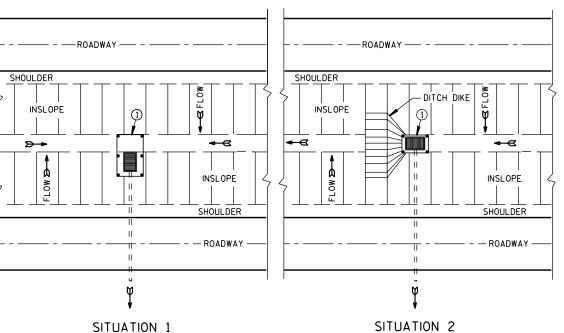
08E09-06	SILT FENCE
08E11-02	TURBI DI TY BARRI ER
12A03-10	NAME PLATE (STRUCTURES)
15C02-08A	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-08B	BARRI CADES AND SIGNS FOR VARIOUS CLOSURES
15C06-09	SIGNING & MARKING FOR TWO LANE BRIDGES
15C11-09B	CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS

6

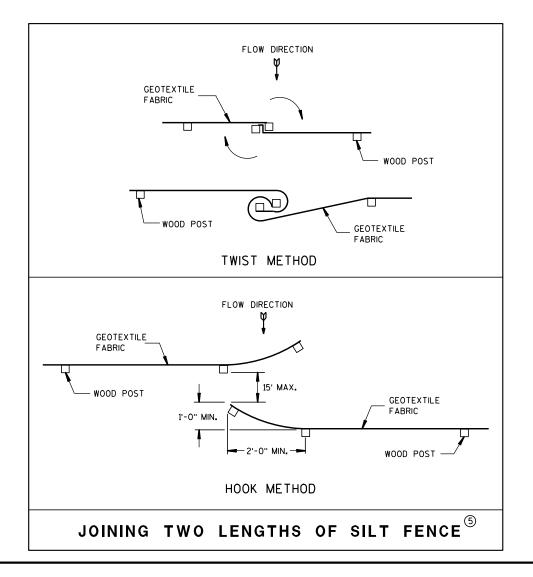
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TYPICAL APPLICATION OF SILT FENCE





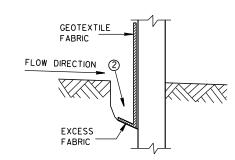
PLAN VIEW SILT FENCE AT MEDIAN SURFACE DRAINS



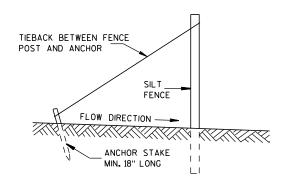
GENERAL NOTES

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 11/8" X 11/8" 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

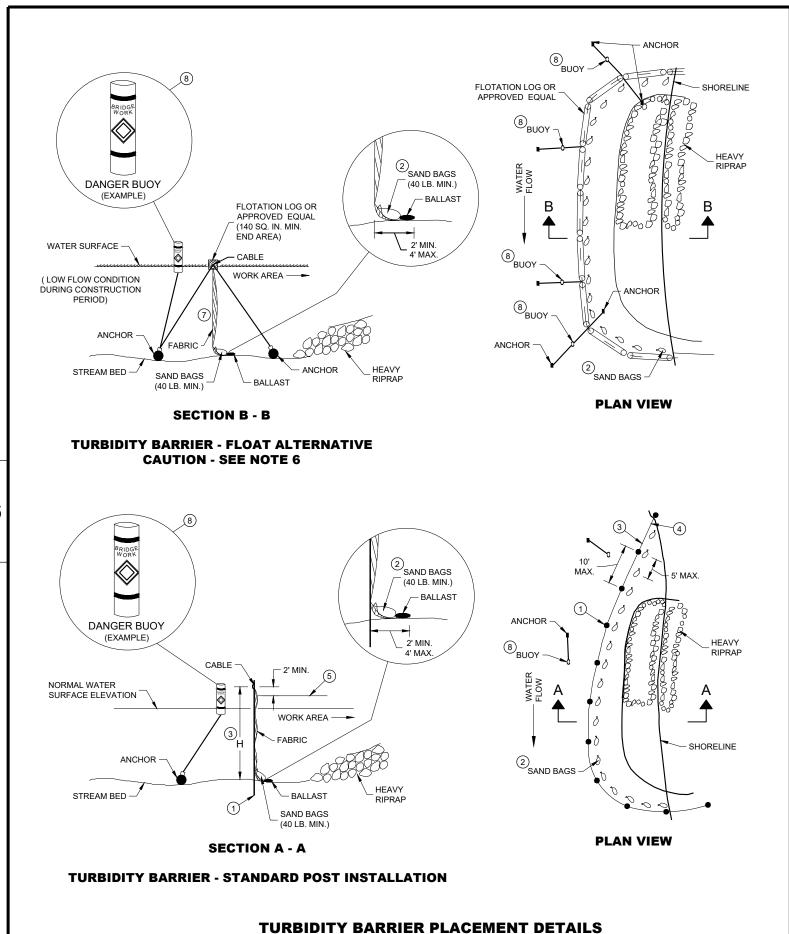


SILT FENCE TIE BACK (WHEN REQUIRED BY THE ENGINEER)

SILT FENCE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION APPROVED 4-29-05 /S/ Beth Cannestra CHIEF ROADWAY DEVELOPMENT ENGINEER

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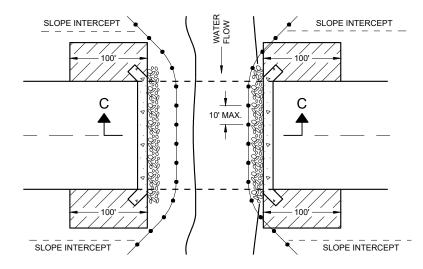


GENERAL NOTES

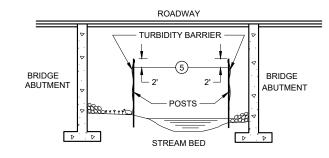
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

TURBIDITY BARRIER MAY BE REMOVED AT THE ENGINEERS DISCRETION, WHEN PERMANENT EROSION CONTROL MEASURES HAVE BEEN ESTABLISHED.

- ① DRIVEN STEEL POSTS, PIPES, OR CHANNELS. LENGTH SHALL BE SUFFICIENT TO SECURELY SUPPORT BARRIER AT HIGH
- (2) SAND BAGS TO BE USED AS ADDITIONAL BALLAST WHEN ORDERED BY THE ENGINEER TO MEET ADVERSE FIELD CONDITIONS. SPACE AS APPROPRIATE FOR SITE CONDITIONS.
- (3) WHEN BARRIER HEIGHT "H" EXCEEDS 8 FEET, POST SPACING MAY NEED TO BE DECREASED.
- (4) IN WATERWAYS SUBJECT TO FLUCTUATING WATER ELEVATIONS, PROVISIONS SHOULD BE MADE TO ALLOW THE WATER TO EQUALIZE ON EACH SIDE OF THE BARRIER. THIS MAY BE ACCOMPLISHED BY LEAVING A PORTION OF THE BARRIER OPEN ON
- (5) ESTIMATED HIGH WATER ELEVATION DURING CONSTRUCTION PERIOD. MINIMUM BARRIER HEIGHT SHALL BE 2' GREATER THAN EITHER THE Q2 ELEVATION OR THE ESTIMATED HIGH WATER ELEVATION DURING CONSTRUCTION, WHICHEVER IS GREATER.
- (6) FLOAT ALTERNATIVE WILL ONLY BE ALLOWED WITH WRITTEN APPROVAL OF THE ENGINEER, AND IS MEANT FOR LOCATIONS WHERE BEDROCK PREVENTS THE INSTALLATION OF POSTS.
- (7) ALLOW SUFFICIENT SLACK VERTICALLY AND HORIZONTALLY SO THAT SEDIMENT BUILD UP WILL NOT SEPARATE OR LOWER THE TURBIDITY BARRIER.
- (8) USE AS DIRECTED BY COAST GUARD OR DNR PERMIT WHEN WORKING IN NAVIGABLE WATERWAYS.



PLAN VIEW



SECTION C - C

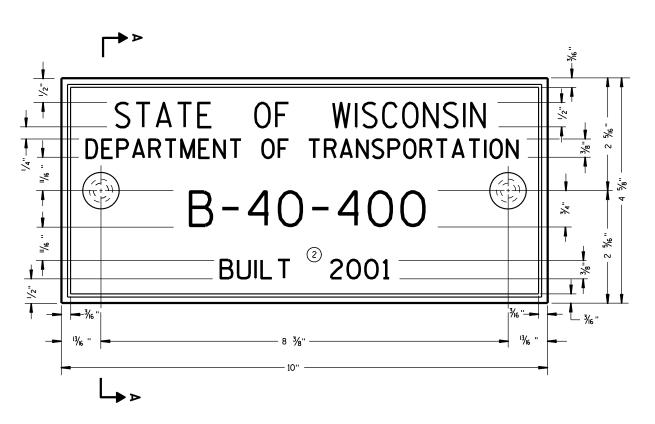
TURBIDITY BARRIER DETAIL SHOWING TYPICAL PLACEMENT AT STRUCTURES

TURBIDITY BARRIER

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION ∞

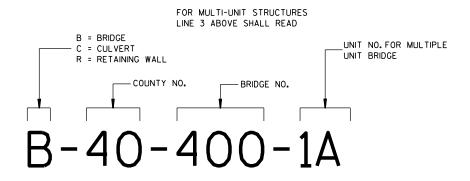
APPROVED	
6/4/02	/S/ Beth Cannestra
DATE	CHIEF ROADWAY DEVELOPMENT
F1 04/4	ENGINEER





TYPICAL NAME PLATE

(BRIDGES, CULVERTS, AND RETAINING WALLS)



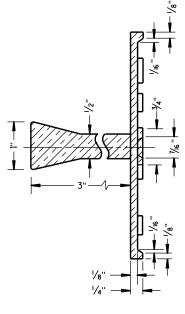
NUMBERING DESIGNATION MULTI-UNIT STRUCTURES

GENERAL NOTES

NAME PLATES TO BE INSTALLED ON BRIDGES, CULVERTS, AND RETAINING WALLS SHALL CONFORM TO THE REQUIREMENTS OF SECTION 502.3.11 OF THE STANDARD SPECIFICATIONS.

THE BRIDGE NUMBER AND YEAR BUILT SHOWN ON THIS DRAWING ARE EXAMPLES ONLY. SEE CONSTRUCTION PLANS FOR INDIVIDUAL NUMBERING AND YEAR BUILT.

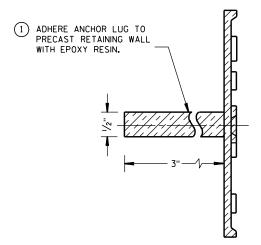
- 1 EPOXY RESIN SHALL BE FROM AN APPROVED MANUFACTURER AND USED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
- REHABILITATION OF AN EXISTING STRUCTURE SHOULD USE THE DATE OF ORIGINAL STRUCTURE CONSTRUCTION.



SPREAD OPEN SO THE
TOP OF LUG IS 11/4" WIDE

SECTION A-A

ALTERNATE LUG



ALTERNATE LUG

(FOR ATTACHMENT TO PRECAST STRUCTURES)

NAME PLATE (STRUCTURES)

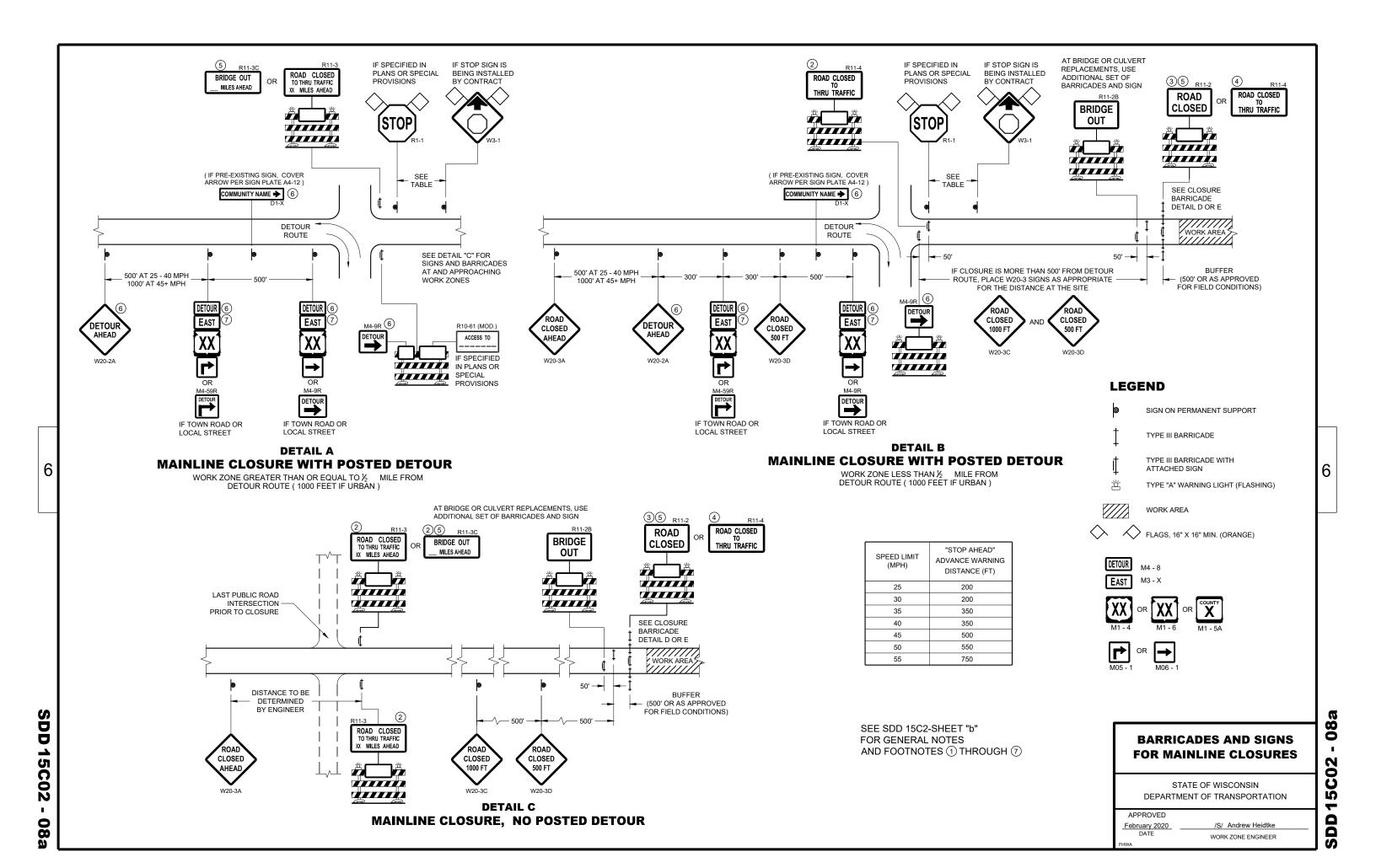
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

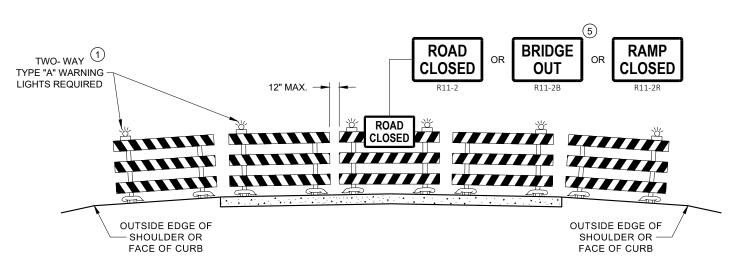
3-10

APPROVED

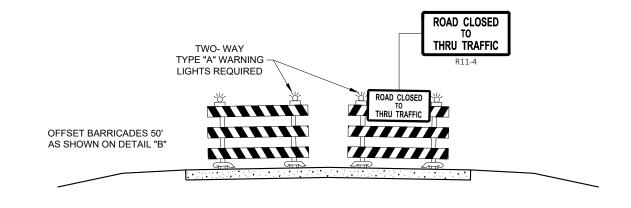
3/26/IO /S/ SCOT BECKET

CHIEF STRUCTURAL DEVELOPMENT ENGINEER





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.
- 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.

FOR VARIOUS CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

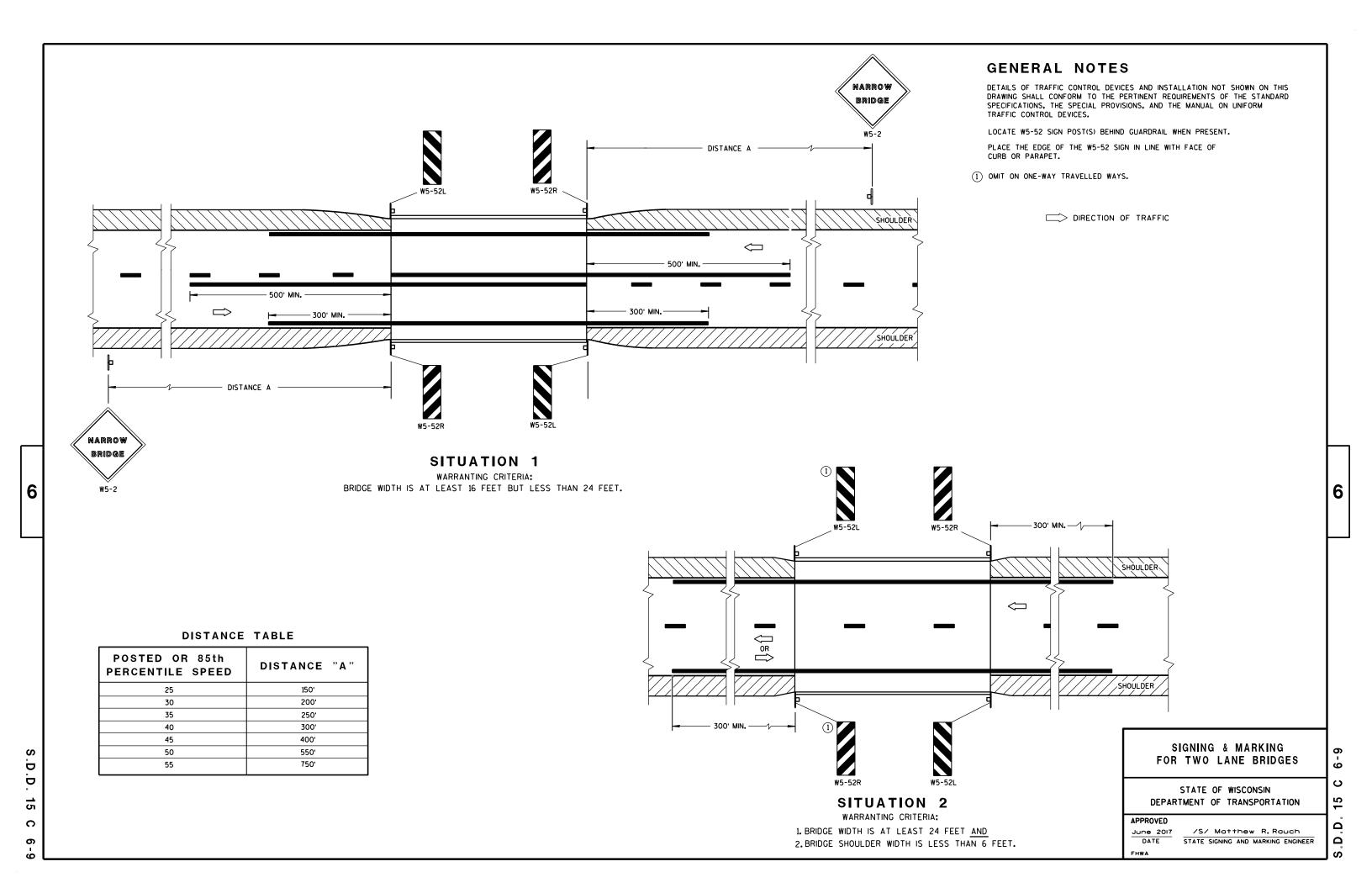
APPROVED

February 2020 ____

/S/ Andrew Heidtke
WORK ZONE ENGINEER

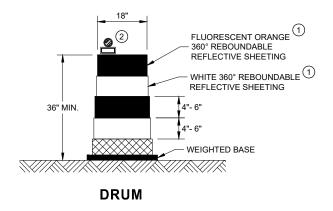
D15C0

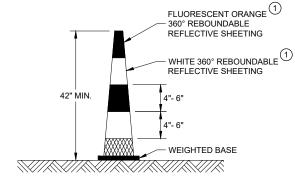
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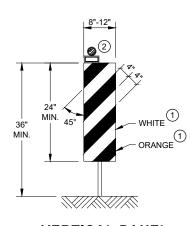
GENERAL NOTES

- (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.

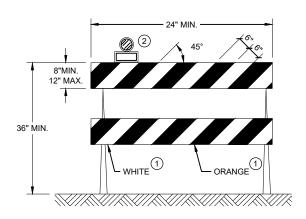




42" CONE DO NOT USE IN TAPERS ½ SPACING OF DRUMS

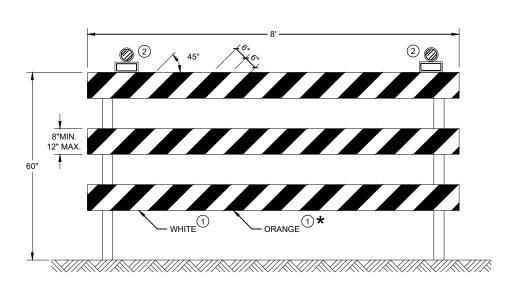


VERTICAL PANEL THE STRIPES SHALL SLOPE DOWNWARD TO THE TRAFFIC SIDE FOR CHANNELIZATION.



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.

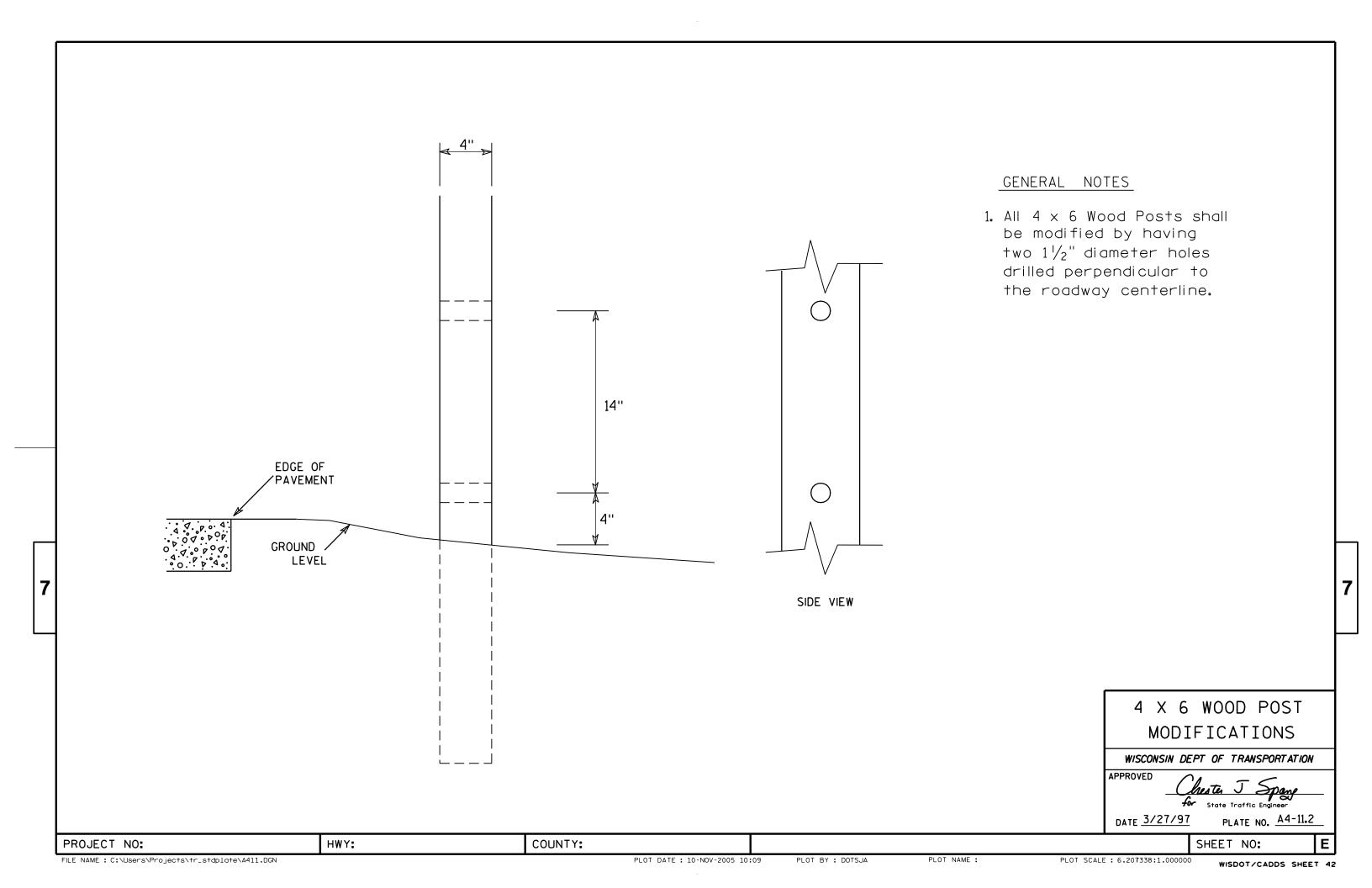
CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS

<u>60</u>

15C

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

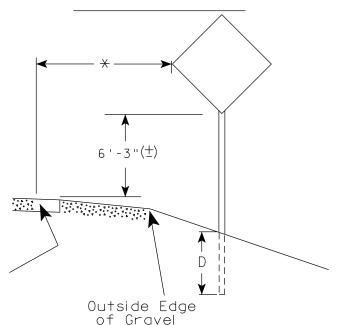
APPROVED	
May 2021	/S/ Andrew Heidtke
DATE	WORK ZONE ENGINEER
EHWA.	



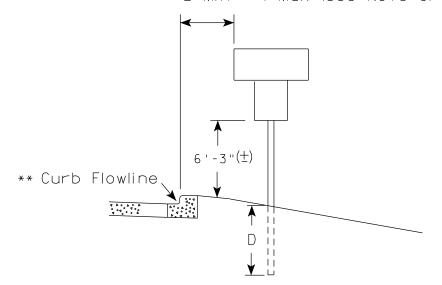
2' Min - 4' Max (See Note 6)

The state of t

White Edgeline Location



2' Min - 4' Max (See Note 6)



White Edgeline Location

geline

Outside Edge
of Gravel

** 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

HWY:

* 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.

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" (\pm). 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" (\pm).

- 3. For expressways and freeways, mounting height is 7'- 3" (\pm) or 6'-3" (\pm) depending upon existence of a sub-sign.
- 4. Minimum mounting height for signs mounted on traffic signal poles is 5' 3'' ($\frac{+}{2}$).
- 5. Offset distance shall be consistent with existing signs or consistent throughout length of project.
- 6. The (±) tolerance for mounting height is 3 inches.
- 7. Folding signs shall be mounted at a height of 5'-3'' (\pm) or as directd by the Engineer.

POST EMBEDMENT DEPTH

Area of Sign	
Installation	D
(Sq.Ft.)	(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 Rawh

For State Traffic Engineer

DATE 5/13/2020 PLATE NO. A4-3.22

SHEET NO:

Ε

PROJECT NO:

FILE NAME: C:\CAEfiles\Projects\tr_stdplate\A43.dgn

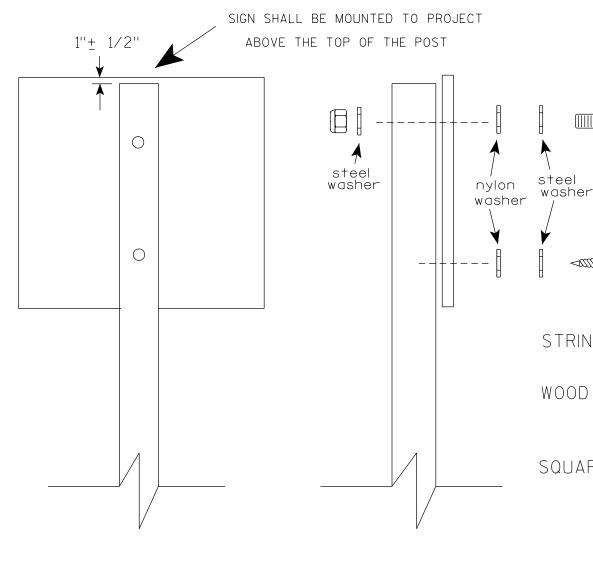
measured from the flow line.

COUNTY: PLOT DATE: 13-MAY 2020 1:04

PLOT BY : mscj9h

PLOT NAME :

PLOT SCALE: \$\$.....plotscale.....\$\$ WISDOT/CADDS SHEET 42



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 - $\frac{5}{16}$ " X 1-3/4" Length w/ lock nuts

WOOD POSTS $(4'' \times 6'')$

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 - 3/32 " (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 $\frac{3}{8}$ " I.D. X $\frac{1}{16}$ " STEEL 1-1/4" O.D. X $\frac{3}{8}$ " 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 Matther

≠or State Traffic Engineer

SHEET NO:

DATE 4/1/2020

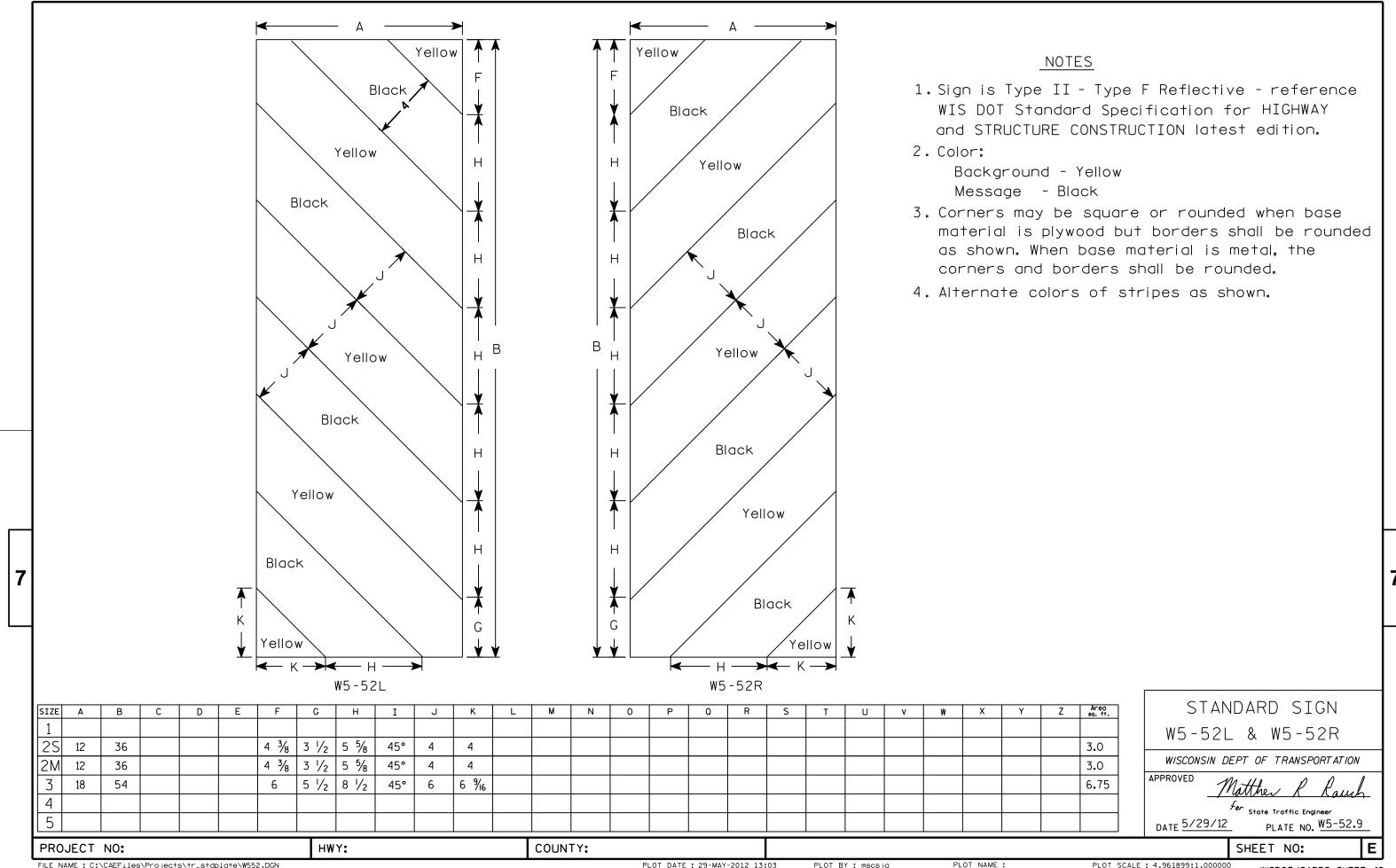
PLATE NO. <u>A4-8.9</u>

PROJECT NO:

PLOT DATE: 01-APRIL-2020

PLOT BY : dotc4c

Ε



VEHICLE RATING (WIS.-SPV): - 250 KIPS

STRUCTURE IS DESIGNED FOR A FUTURE WEARING

CONCRETE MASONRY, SLAB — fc = 4,000 P.S.I. ALL OTHER — fc = 3,500 P.S.I.

ABUTMENTS TO BE SUPPORTED ON 10¾ X 0.365-INCH C.I.P. PILING DRIVEN TO A REQUIRED DRIVING RESISTANCE OF 140 TONS PER PILE** AS

DETERMINED BY THE MODIFIED GATES DYNAMIC

FORMULA. ESTIMATED 90 FT PILE LENGTHS AT W. ABUT. AND 90 FT PILE LENGTHS AT E. ABUT.

** THE FACTORED AXIAL RESISTANCE OF PILES IN COMPRESSION USED FOR DESIGN IS THE REQUIRED DRIVING RESISTANCE MULTIPLIED BY A RESISTANCE

FACTOR OF 0.5 USING MODIFIED GATES DYNAMIC

720 C.F.S.

720 C.F.S.

3.3 SQ. MI.

101 SQ. FT.

-7.13 F.P.S.

-831.22 FT.

-155 C.F.S.

-828.29 FT

-3.39 F.P.S.

CONSULTANT CONTACT ANDY KNUTSON, P.E., S.E.

(608) 588-7866

619 EAST HOXIE STREET P.O. BOX 429 SPRING GREEN, WI 53588 PHONE (608) 588-7866 FAX (608) 588-7954

RY

DATE

SHEET 1 OF 9

-N/A

- N /A

N/A

- 447

- 469

REVISION

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

CHIEF STRUCTURES DESIGN ENGINEER

STRUCTURE B-6-196

CTH HH OVER BRANCH OF BUFFALO RIVER

ESIGNED JDO DESIGN CDS DRAWN JDO PLANS ACK

11/02/21

- 60 M.P.H.

FORMULA TO DETERMINE DRIVEN PILE CAPACITY.

SURFACE OF 20 POUNDS PER SQUARE FOOT.

- RF=1.52

-fy = 60,000 P.S.I.

DESIGN DATA

DESIGN LOADING

MATERIAL PROPERTIES:

FOUNDATION DATA:

HYDRAULIC DATA:

Q100 (ROAD)

DRAINAGE AREA

BRIDGE VELOCITY

OVERTOPPING O

OVERTOPPING FI

Q₂ ELEVATION

<u>CTH HH</u> A.A.D.T. (2022)

A.A.D.T. (2042)

BRIDGE OFFICE CONTACT AARON BONK, P.F.

(608) 261-0261

WESTBROOK

BUFFALO

AASHTO LRFD DESIGN SPEC

GENERAL PLAN

DESIGN SPEED

NO. DATE

ACCEPTED

Q2 VELOCITY

TRAFFIC DATA:

HIGH WATER 100 EL.

Q₁₀₀ (THRU BRIDGE)

BRIDGE WATER AREA

SCOUR CRITICAL CODE -

OVERTOPPING RDWY FREQ. - N/A

INVENTORY RATING FACTOR

OPERATING RATING FACTOR

HIGH-STRENGTH BAR STEEL

REINFORCEMENT -

WISCONSIN STANDARD PERMIT

LIVE LOAD:

NOTES

- EXCAVATION AS INDICATED IN THE HATCH AREAS, TO BE INCLUDED IN THE BID ITEM "EXCAVATION FOR STRUCTURES BRIDGES B-6-196"
- (GO1) BACKFILL PAY LIMITS. BACKFILL BEYOND BACKFILL PAY LIMITS SHALL BE INCLUDED WITH THE BID ITEM "EXCAVATION FOR STRUCTURES BRIDGES B-6-196". LIMITS OF EXCAVATION SHALL BE DETERMINED BY THE CONTRACTOR.
- (GO2) "GEOTEXTILE TYPE DF SCHEDULE A" LIMITS. EXTEND 2'-0" ABOVE BOTTOM OF ABUTMENT FOR THE ENTIRE ABUTMENT BODY LENGTH.
- GO3 PIPE UNDERDRAIN WRAPPED (6-INCH). SLOPE 0.5% MIN. TO SUITABLE DRAINAGE. ATTACH RODENT SHIELD AT ENDS OF PIPE UNDERDRAIN AS DETAILED IN "ABUTMENT DETAILS" SHEET
- GO4) NAME PLATE REQUIRED AND BENCH MARK CAP (WHEN SUPPLIED). FOR LOCATION SEE "ABUTMENTS" SHEET.
- > INDICATES WING NUMBER

- SUBSURFACE EXPLORATION
- ABUTMENTS
- ABUTMENT DETAILS
- SUPERSTRUCTURE

Manhamman Manhamman WISCONSIN ANDREW C. KNUTSON E-34662 PRO SPRING GREEN, WI MINIONAL ENGINE

BENCH MARKS +

BACKFILL STRUCTURE TYPE A, TYP.

NO.	STATION/OFFSET	DESCRIPTION	ELEVATION
CP1	12+86.86, 0.85' LT.	GIN SPIKE	843.91
CP2	7+25.67, 0.52' RT.	GIN SPIKE	837.64
CP3	7+50.11, 16.39' LT.	3/4" REBAR	836.34

HORIZONTAL DATUM AND ADJUSTMENT: NAD 83 (2011) VERTICAL DATUM AND ADJUSTMENT: NAVD 88 (2012) COORDINATE REFERENCE SYSTEM: WCCS BUFFALO CO.

LIST OF DRAWINGS

- GENERAL PLAN
- CROSS SECTION, GENERAL NOTES & QUANTITIES

- SUPERSTRUCTURE DETAILS
- RAILING STEEL TYPE NY4
- DETAILS #1 RAILING STEEL TYPE NY4
- DETAILS #2





4'-0"

TYP.

2'-6" BERM

TYP

E. ABUT. BRG.

36'-6" BACK TO BACK OF ABUTMENTS

34'-0" SPAN LENGTH

10+00

RANCH OF BUFFALO RIVER

∠ EDGE OF WATER, TYP.

PLAN B-6-196

(SINGLE SPAN CONCRETE FLAT SLAB BRIDGE)

36'-6" BACK TO BACK OF ABUTMENTS

34'-0" SPAN LENGTH

(NORMAL TO BRANCH OF BUFFALO RIVER, LOOKING NORTH)

HIGH WATER 100

EL. 831.22

STREAMBED -

4'-6" LIMITS

OF RIPRAP

HEAVY

3

(G04)

€ W. ABUT. BRG.

ABUT. BRG.

1'-3"

EXISTING STR. P-6-116,

© W. ABUT. BRG.

END OF SLAB

STA. 9+81.75

STA 9+87.82

 $\langle 1 \rangle$

RAILING STEEL TYPE NY4 -

BOT. OF W. ABUT.

RIPRAP HEAVY WITH

GEOTEXTILE TYPE HR.

EXISTING GROUND LINE

FL 826.10

~M=11=11=11&

1'-3"

RIPRAP HEAVY

PROFILE GRADE

LINE, & CTH HH

840

835

830

825

WITH GEOTEXTILE

END OF EXIST. STR.

STA. 9+83.00

TO BE REMOVED

1'-3"

 $\langle 3 \rangle$

END OF EXIST. STR.

E. ABUT. BRG.

STA. 10+17.00

END OF SLAB

STA. 10+18.25

 $\langle 4 \rangle$

1'-3"

€ E. ABUT. BRG.

(G02)

BOT. OF E. ABUT.

EL. 826.36

3'-0"

(G03)

EDGE OF EXISTING

- EDGE OF EXISTING

ASPHALT ROADWAY, TYP.

€ СТН НН

SHOULDER, TYP.

9'-0" LIMITS

OF RIPRAP

HEAVY

TYP. EL. 823.99 10¾ X 0.365-INCH C.I.P., TYP. AT ABUTMENTS **ELEVATION**

I.D. 7363-00-70 PLOT DATE: Oct 29, 2021

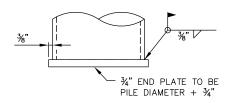
AT ABUTMENTS, CONCRETE POURED UNDER WATER BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2" WILL BE ALLOWED AND SHALL BE DONE IN ACCORDANCE WITH SECTION 502.3.5.3 OF THE STANDARD SPECIFICATIONS.

> SLAB FALSEWORK SHALL BE SUPPORTED ON PILES OR THE SUBSTRUCTURE, UNLESS AN ALTERNATE METHOD IS APPROVED BY THE ENGINEER.

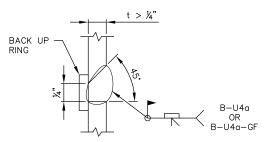
AT THE BACKFACE OF ABUTMENT ALL VOLUME WHICH CANNOT BE PLACED BEFORE ABUTMENT CONSTRUCTION AND IS NOT OCCUPIED BY THE NEW STRUCTURE SHALL BE BACKFILLED WITH STRUCTURE BACKFILL TYPE A.

DO NOT PLACE FILL ABOVE 3'-0" FROM BOTTOM OF ABUTMENT UNTIL SUPERSTRUCTURE IS IN PLACE.

THE EXISTING STRUCTURE (P-6-116) IS A SINGLE SPAN STEEL GIRDER WITH CONCRETE AND TIMBER DECK BRIDGE WITH AN OVERALL LENGTH OF 24.6-FT AND A DECK WIDTH OF 30.8-FT AND IS TO BE REMOVED PER BID ITEM "REMOVING STRUCTURE OVER WATERWAY MINIMAL DEBRIS P-6-116".



END PLATE DETAIL FOR CIP PILING

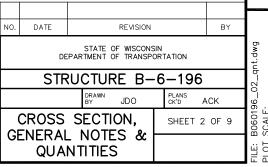


C.I.P. PILE WELD DETAIL

BACK UP RING, ¾6" MIN. THICKNESS FOR SMAW AND 1/4" MIN. THICKNESS FOR FCAW. B-U4a B-U4a-GF

CAST-IN-PLACE 'PIPE PILE'

NOTE: CAST-IN-PLACE PILE SHELL MATERIAL SHALL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATION.



GENERAL NOTES DRAWINGS SHALL NOT BE SCALED.

CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE.

BEVEL EXPOSED EDGES OF CONCRETE 34" UNLESS OTHERWISE NOTED

THE SLOPE OF THE FILL IN FRONT OF THE ABUTMENTS SHALL BE COVERED WITH HEAVY RIPRAP AND GEOTEXTILE FABRIC TYPE HR TO THE EXTENT SHOWN ON THE "GENERAL PLAN" SHEET AND THE ABUTMENT SHEETS.

THE BACKFILL QUANTITIES ARE BASED ON THE PAY LIMITS SHOWN ON THE PLANS AND MAY NOT REFLECT ACTUAL PLACED QUANTITIES. "BACKFILL STRUCTURE TYPE A" REQUIRED DIRECTLY BEHIND ABUTMENTS AND ABUTMENT WINGS FOR 3 FEET, BACKFILL PLACED BEYOND PAY LIMITS OR EXCEEDING PLAN QUANTITIES SHALL BE INCLUDED WITH THE BID ITEM "EXCAVATION FOR STRUCTURES BRIDGES B-6-196".

EXCAVATION BELOW THE ABUTMENT AND ABUTMENT BEDDING MATERIALS REQUIRES ENGINEER APPROVAL. GEOTEXTILE SHALL BE SET AT THE BOTTOM OF EXCAVATION AND EXTEND 2'-0" ABOVE BOTTOM OF ABUTMENT.

PROTECTIVE SURFACE TREATMENT TO BE APPLIED TO THE SUPERSTRUCTURE SLAB PER THE STANDARD SPECIFICATION.

THE UPPER LIMITS OF "EXCAVATION FOR STRUCTURES BRIDGES B-6-196" SHALL BE THE EXISTING GROUND LINE.

STA. 10+68.. EL. 834.98 BOT. OF W. ABUT. EL. 826.10 BOT. OF E. ABUT. EL. 826.36 +2.27% € CTH HH 의 지는 의 지수 -0.76% CROSS SECTION THRU ROADWAY (LOOKING EAST) PVI_STA_10+00 PVI EL. 833.43 VCL = 136.50K = 44.90

5" V-GROOVE

TYP.

1'-0"

(G05)

TOTAL ESTIMATED QUANTITIES

GO5 COAT WITH "PROTECTIVE SURFACE TREATMENT" AS PER THE STANDARD SPECIFICATIONS. PROTECTIVE

SURFACE TREATMENT TO BE APPLIED TO ENTIRE

EXPOSED TOP OF SLAB INCLUDING THE SLAB EDGES

EXPOSED FACE OF WINGS, AND THE FRONT FACE OF

THE ABUTMENTS TO 1'-0" PAST THE EDGE OF SLAB.

AND 1'-0" UNDER THE SLAB, THE TOP AND EXTERIOR

RAILING

TOP OF WING (G05)

· ½" FILLER

4"x¾" FILLER

L RIPRAP HEAVY WITH

GEOTEXTILE TYPE HR, TYP.

G05

-(G05)

NOTE

RAILING STEEL

2.00%

TYPE NY4

ITEM NO.	BID ITEMS	UNIT	W. ABUT.	E. ABUT.	SUPER.	TOTALS
203.0260	REMOVING STRUCTURE OVER WATERWAY MINIMAL DEBRIS P-6-116	EACH				1
206.1000	EXCAVATION FOR STRUCTURES BRIDGES B-6-196	LS				1
210.1500	BACKFILL STRUCTURE TYPE A	TON	150	150		300
502.0100	CONCRETE MASONRY BRIDGES	CY	28	28	81	137
502.3200	PROTECTIVE SURFACE TREATMENT	SY	16	16	154	186
505.0400	BAR STEEL REINFORCEMENT HS STRUCTURES	LB	2,380	2,380		4,760
505.0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	LB	1,395	1,395	14,320	17,110
513.7084	RAILING STEEL TYPE NY4	LF			78	78
516.0500	RUBBERIZED MEMBRANE WATERPROOFING	SY	7	7		14
550.2106	PILING CIP CONCRETE 10 3/4 X 0.365-INCH	LF	630	630		1,260
606.0300	RIPRAP HEAVY	CY	42	54		96
612.0406	PIPE UNDERDRAIN WRAPPED 6-INCH	LF	75	75		150
645.0111	GEOTEXTILE TYPE DF SCHEDULE A	SY	36	36		72
645.0120	GEOTEXTILE TYPE HR	SY	74	105		179
(NON-BID ITEM)	FILLER	SIZE				1/2" & 3/4"

33'-4" OUT TO OUT OF STRUCTURE

30'-0" CLEAR ROADWAY

CTH HH

2.00%

15'-0'

IN SPAN

15'-0"

AT ABUTMENT

AT ABUTMENT (PILING NOT SHOWN FOR CLARITY)

CROWN POINT & POINT

GRADE LINE, & CTH HH

ABUT. BERM EL. 828.60

ABUT. BERM EL. 828.86

REFERRED TO ON PROFILE

2.00%

PROFILE GRADE LINE, & CTH HH

RAILING

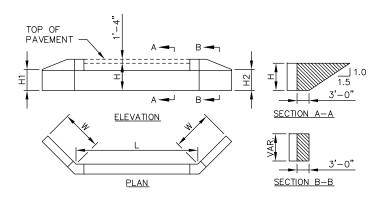
(G05)

RAILING STEEL

TYPE NY4

2.00%

IN SPAN



¾" V-GROOVE REQ'D.

EXTEND TO 6" FROM

FRONT FACE OF

ABUTMENT BODY.

ABUTMENT BACKFILL DIAGRAM

= ABUTMENT BODY LENGTH AT BACKFACE (FT)

= AVERAGE ABUTMENT FILL HEIGHT (FT)

H1 = WING 1 HEIGHT AT TIP (FT)

H2 = WING 2 HEIGHT AT TIP (FT)

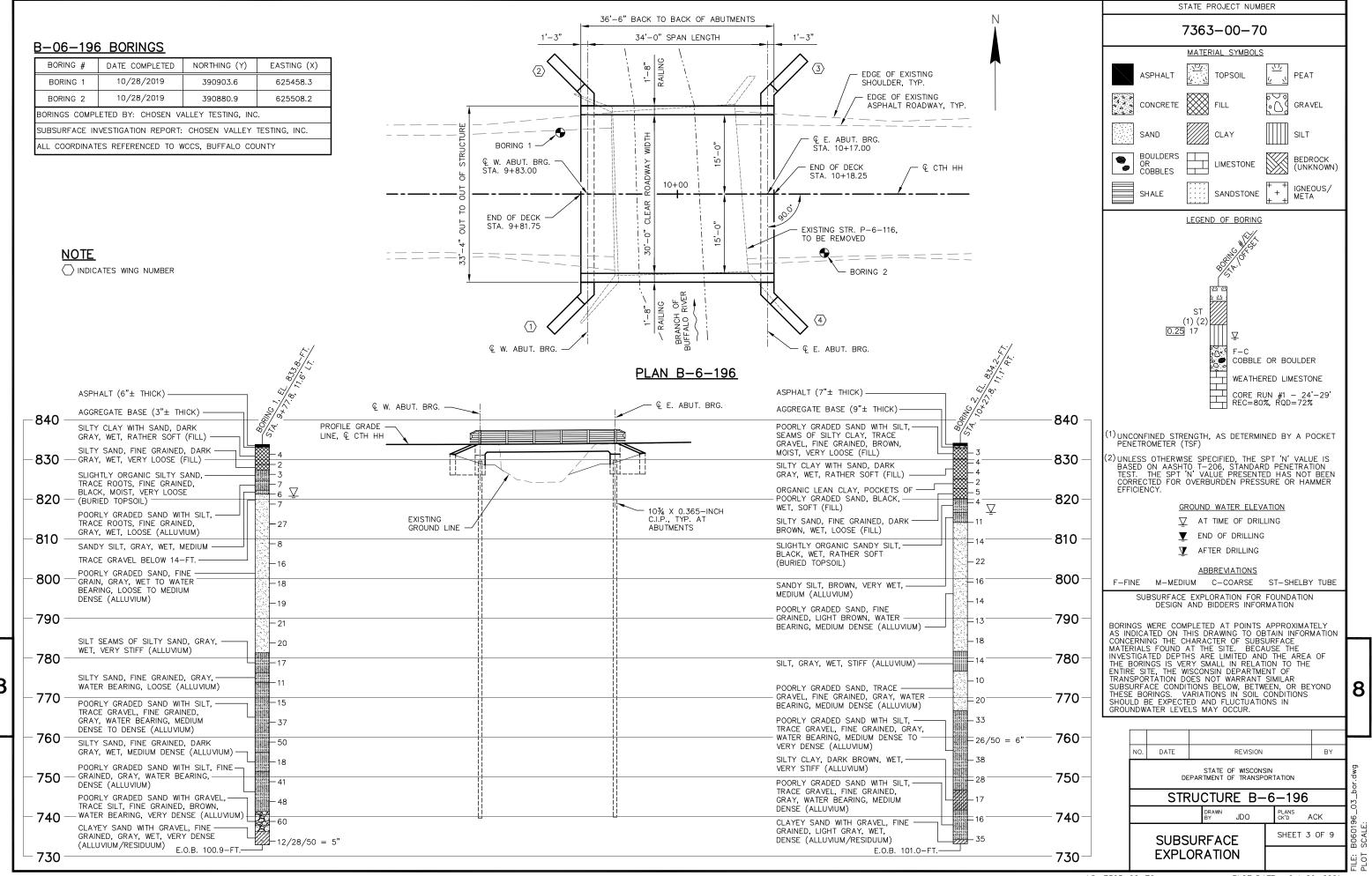
W = WING LENGTH (FT)

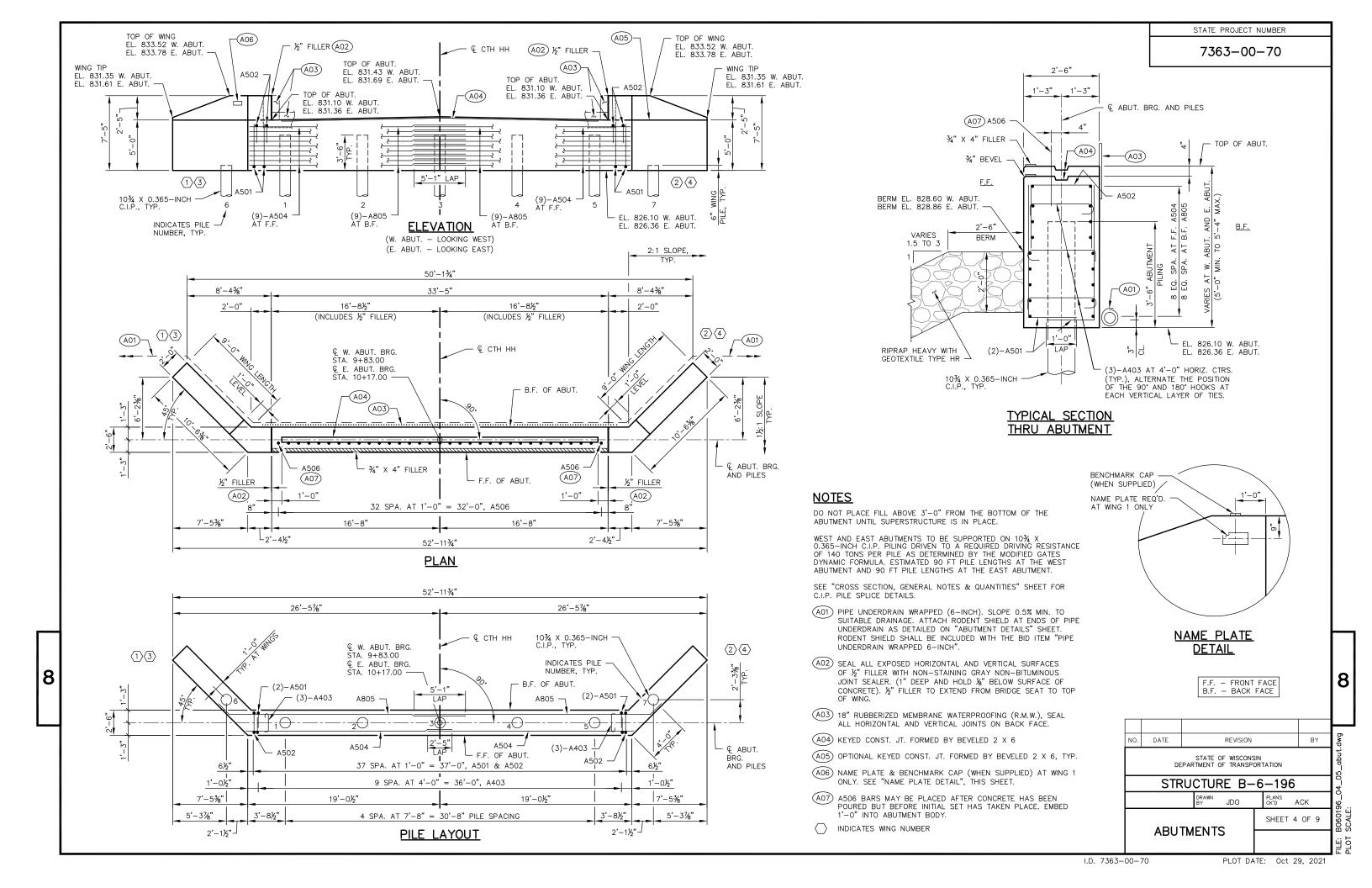
EF = EXPANSION FACTOR (1.20 FOR CY BID ITEMS AND 1.00 FOR TON BID ITEMS)

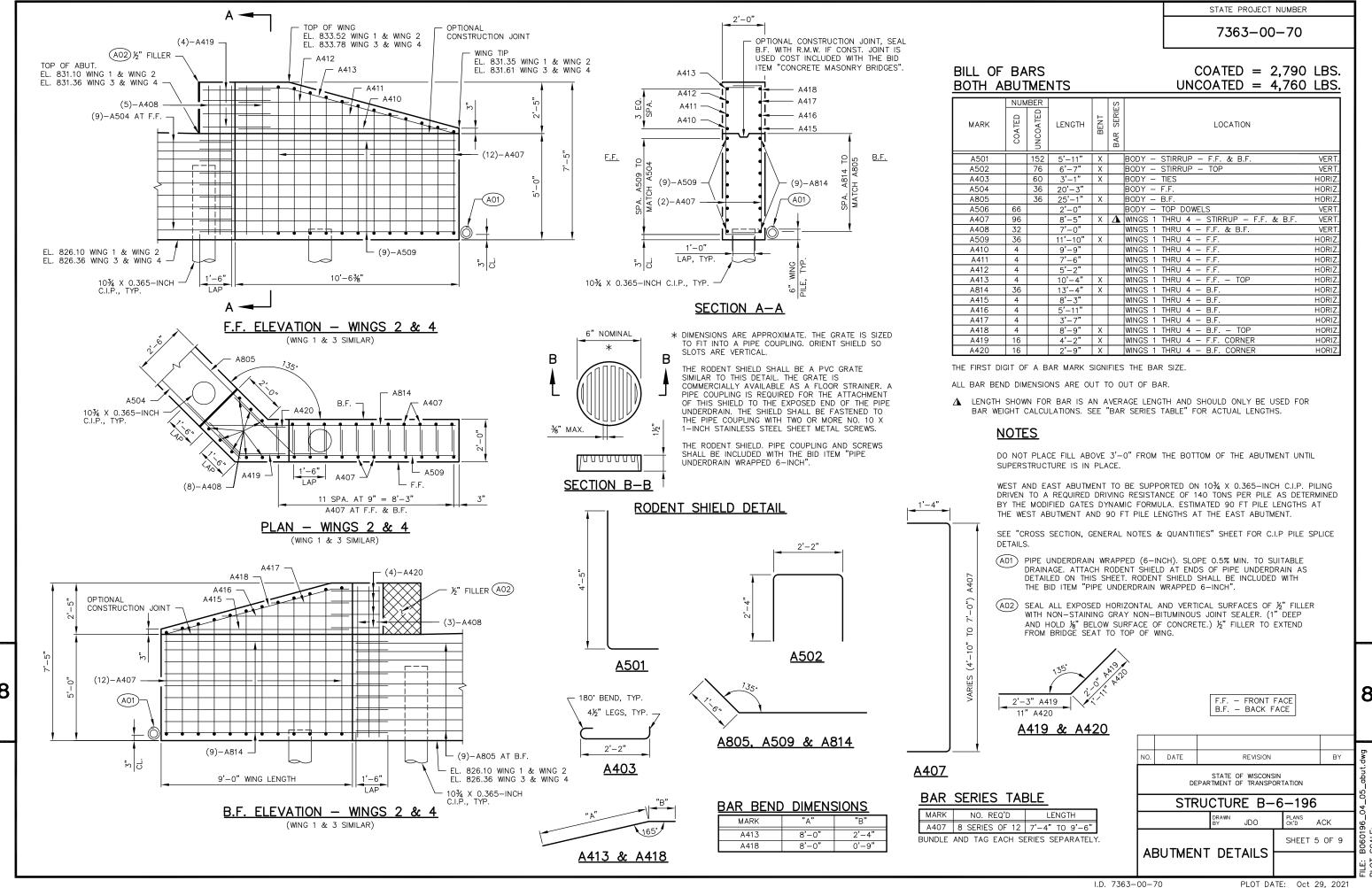
 $V_{CF} = (L)(3.0')(H) + (L)(0.5)(1.5H)(H) + (3')(0.5)(H1+H2+H+H)(W)$

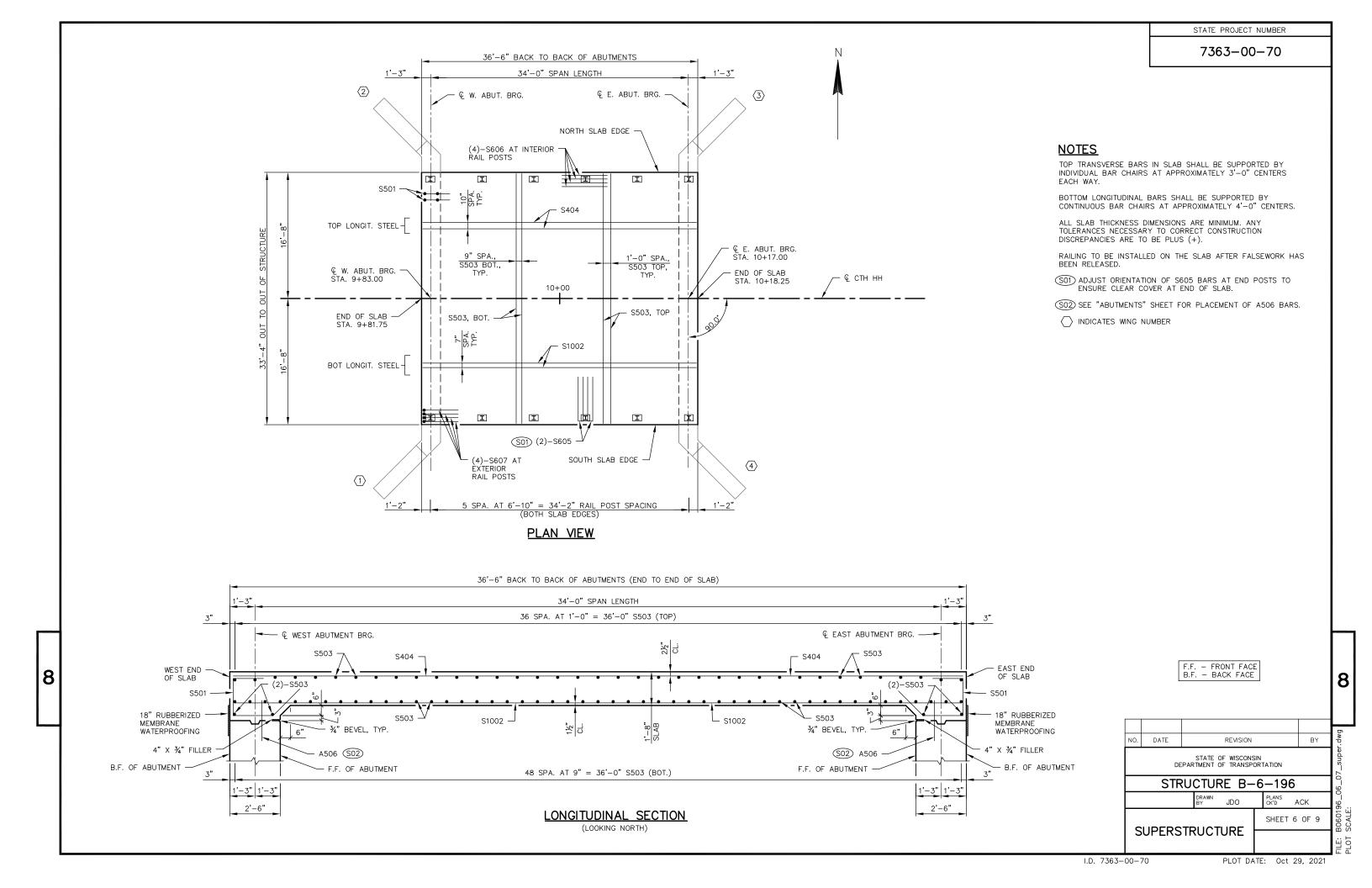
 $V_{CY} = V_{CF}(EF)/27$

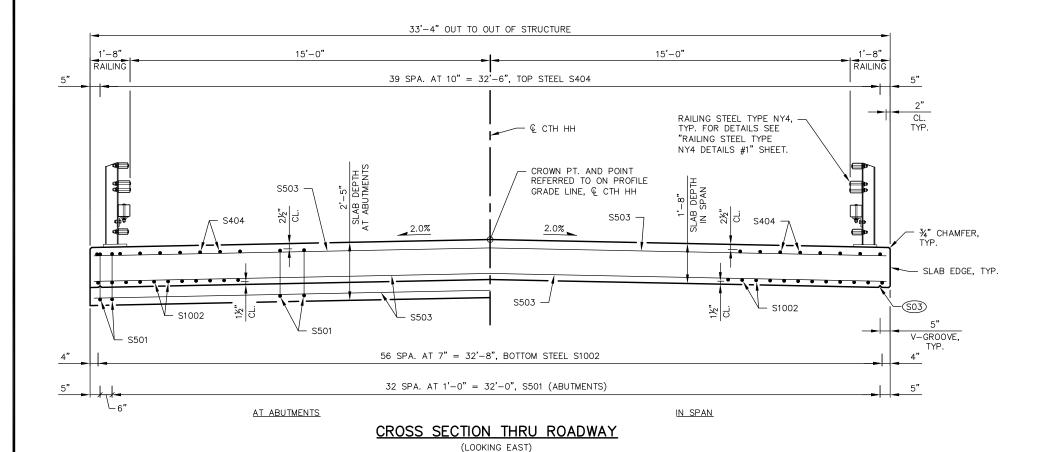
 $V_{TON} = V_{CY}(2.0)$











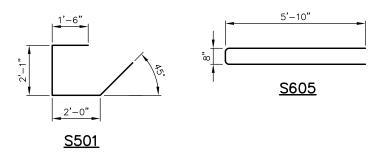
BILL OF BARS SUPERSTRUCTURE

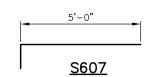
COATED = 14,320 LBS.

MARK	COATED	UNCOATED 33	LENGTH	BENT	BAR SERIES	LOCATION	
S501	68		7'-3"	Х		SLAB AT ABUTMENT - TIES	LONGIT.
S1002	57		36'-2"			SLAB - BOTTOM	LONGIT.
S503	90		33'-0"			SLAB - TOP & BOTTOM	TRANS.
S404	40		36'-2"			SLAB - TOP	LONGIT.
S605	24		12'-0"	Х		SLAB - TOP AT RAIL POSTS	TRANS.
S606	32		6'-0"			SLAB - TOP AT INTERIOR RAIL POSTS	LONGIT.
S607	16		6'-0"	Х		SLAB - TOP AT EXTERIOR RAIL POSTS	LONGIT.

THE FIRST OR FIRST TWO DIGITS OF A FOUR DIGIT BAR MARK SIGNIFIES THE BAR SIZE.

ALL BAR BEND DIMENSIONS ARE OUT TO OUT OF BAR.





SURVEY TOP OF SLAB ELEVATIONS

	€ W. ABUT. BRG.	5/10 PT.	€ E. ABUT. BRG.
NORTH SLAB EDGE			
€ СТН НН			
SOUTH SLAB EDGE			

PRIOR TO RELEASING SLAB FALSEWORK, TAKE TOP OF SLAB ELEVATIONS AT THE $\mathbb Q$ OF ABUTMENTS AND AT 5/10 POINTS TO VERIFY CAMBER. TAKE ELEVATIONS ALONG EDGE OF SLAB AND REFERENCE LINE. RECORD THE ELEVATIONS IN THE ABOVE TABLE FOR THE "AS BUILT" PLANS.

€ W. ABUT. BRG.	© E. ABUT. BRG.
	14 14 14 14 14 14 14 14 14 14 14 15 16 16 16 16 16 16 16 16 16 16 16 16 16

SLAB CAMBER DIAGRAM

TO DETERMINE FALSEWORK ELEVATION AT EDGE OF SLAB, CROWN OR REFERENCE LINE FOLLOW THIS PROCEDURE:

TOP OF SLAB ELEVATION AT FINAL GRADE LESS SLAB THICKNESS

PLUS CAMBER

PLUS FORM SETTLEMENT/DEFLECTION DUE TO PLACEMENT OF SLAB CONCRETE (TO BE COMPUTED BY THE CONTRACTOR)

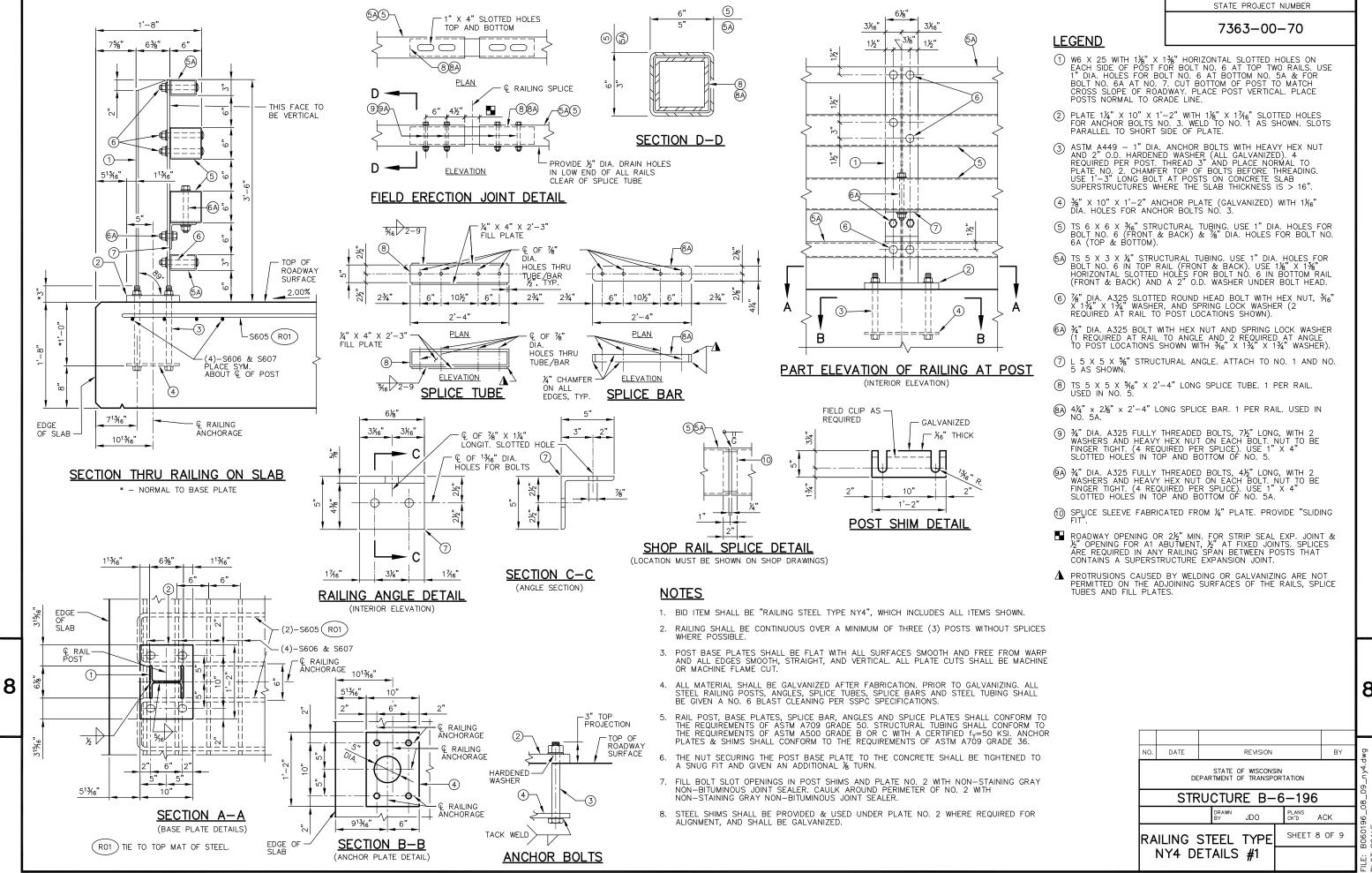
EQUALS TOP OF SLAB FALSEWORK ELEVATION.

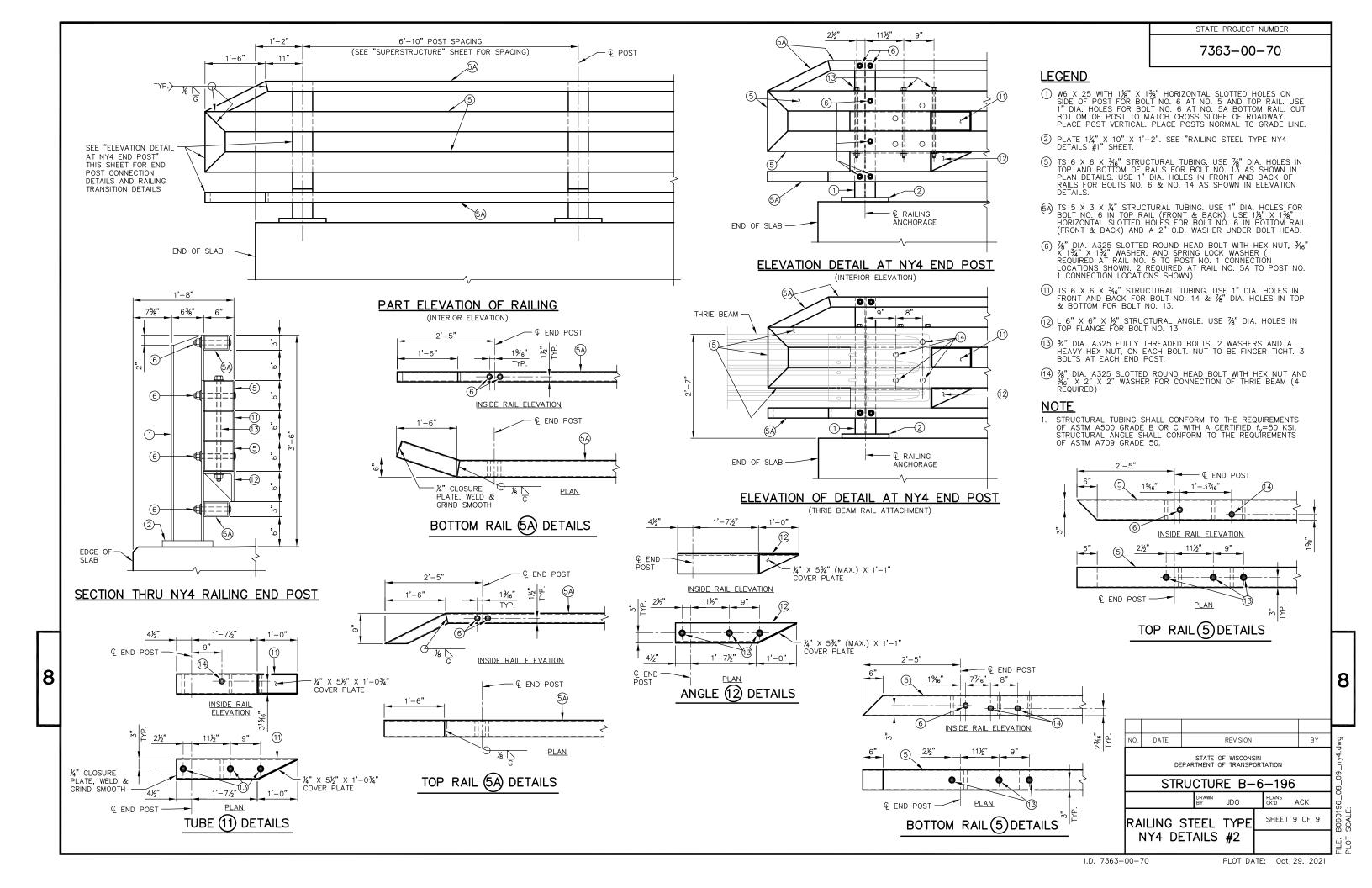
TOP	OF SLAB	ELEVAT	IONS
SPAN PT	SOUTH SLAB EDGE	© СТН НН	NORTH SLAB EDGE
€ W. ABUT.	833.52	833.85	833.52
0.1	833.54	833.87	833.54
0.2	833.55	833.88	833.55
0.3	833.57	833.90	833.57
0.4	833.59	833.92	833.59
0.5	833.62	833.95	833.62
0.6	833.64	833.97	833.64
0.7	833.67	834.00	833.67
0.8	833.71	834.04	833.71
0.9	833.74	834.07	833.74
€ E. ABUT.	833.78	834.11	833.78

NOTES

CAMBER SPANS AS SHOWN TO PROVIDE FOR DEAD LOAD DEFLECTION AND FUTURE CREEP. CAMBER DOES NOT INCLUDE ALLOWANCE FOR FORM SETTLEMENT.

						6
١٥.	DATE	REVISIO	N		BY	ъ.
	DE	STATE OF WISCO		TATION		.07_super.dwg
	STR	UCTURE B	-6	-196		0-90
		DRAWN BY JDO		PLANS CK'D A	кСК	9
S	UPERS	TRUCTURE		SHEET 7	OF 9	B060196_ SCALE:
	DE	TAILS				FILE: F





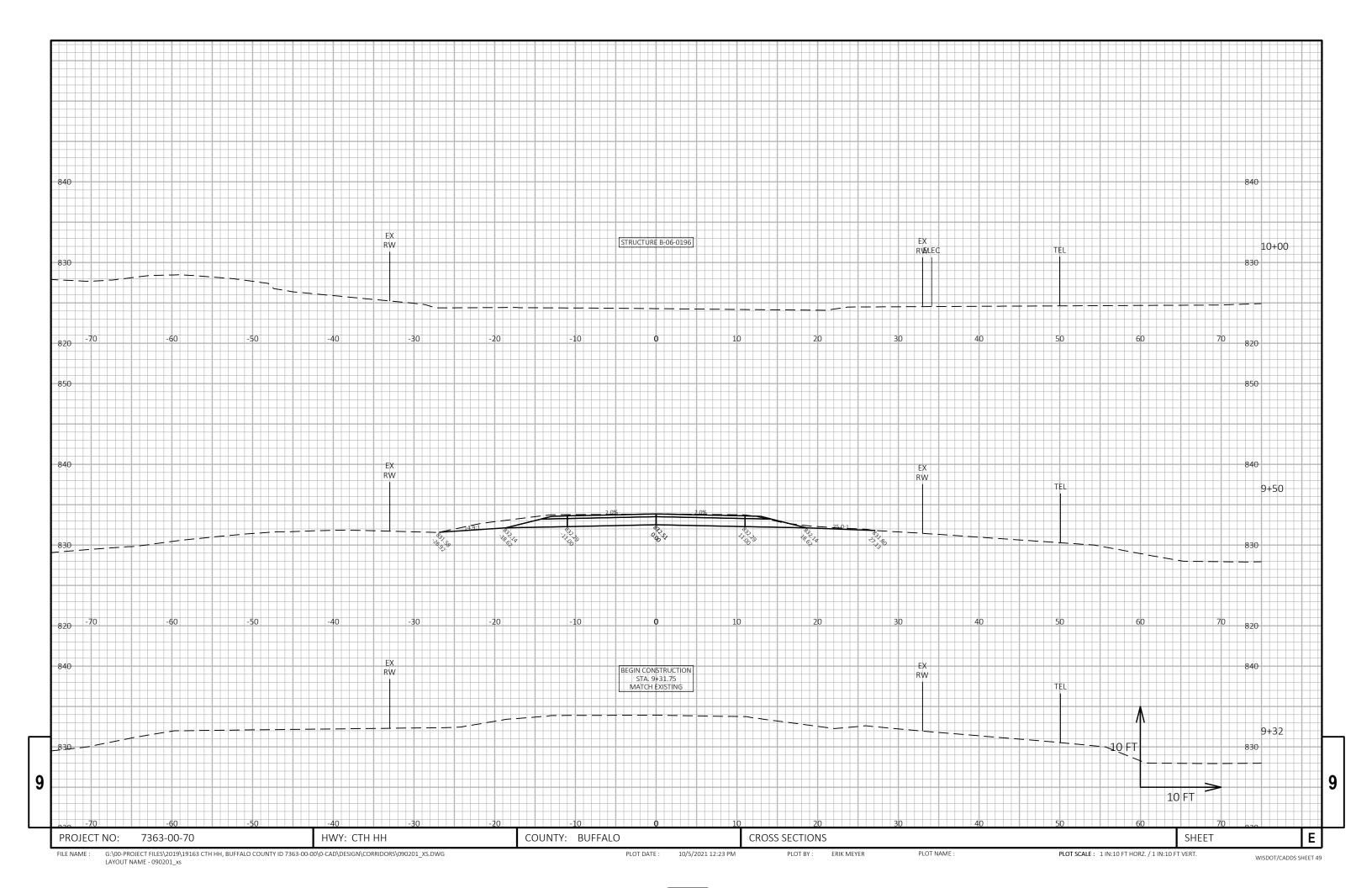
	AREA (SF)						INCREME	NTAL VOL (CY) (UNADJU	JSTED)				CUMULA	TIVE VOL (CY)						
								2							EXPANDED MARSH		EXPANDED EBS	REDUCED MARSH	REDUCED EBS	MASS
	CUT	SALVAGED/UNUSABLE	FILL MAP	RSH EXC	ROCK EXC	EBS	CUT	SALVAGED/UNUSABLE	FILL	MARSH EXC	ROCK EXC	EBS	CUT	EXPANDED FILL	BACKFILL	EXPANDED ROCK	BACKFILL	IN FILL	IN FILL	ORDINATE
STATION		PAVEMENT MATERIAL						PAVEMENT MATERIAL					1.00	1.25	1.50	1.10	1.30	0.60	0.80	
¥:							Note 1	Note 2	Note 3				Note 1		Note 4		Note 5	Note 6	Note 7	Note 8
09+31.75	41.84	11.15	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
09+50.00	43.35	11.11	0.20	0	0	0	29	8	0	0	0	0	29	0	0	0	0	0	0	21
09+75.00	45.23	11.73	13.48	0	0	0	41	11	6	0	0	0	70	8	0	0	0	0	0	43
09+81.75	47.64	11.96	17.45	0	0	0	12	3	4	0	0	0	82	13	0	0	0	0	0	46.91
	F									STRUC	TURE B-06-	0196								
					DIVISION 1 T	OTALS	82	22	10	0	0	0								

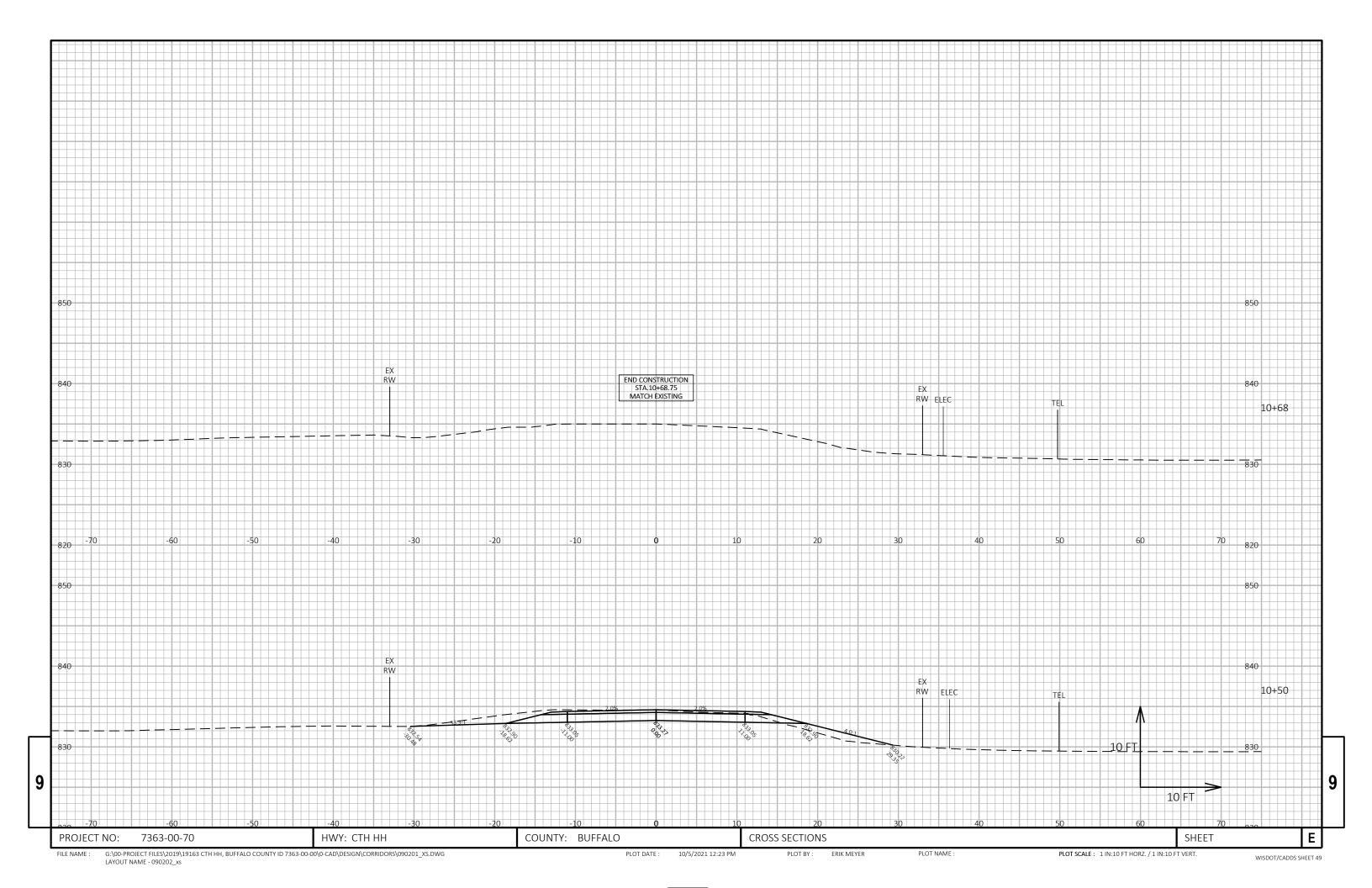
	AREA (SF)						INCREM	ENTAL VOL (CY) (UNADJ	JSTED)				CUMULA	TIVE VOL (CY)						
STATION	сит	SALVAGED/UNUSABLE PAVEMENT MATERIAL		MARSH EXC	C ROCK EX	C EBS	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL Note 2		MARSH EXC	ROCK EX	EBS	CUT 1.00 Note 1	EXPANDED FILL 1.25	EXPANDED MARSH BACKFILL 1.50 Note 4	EXPANDED ROCK 1.10	A STATE OF THE PARTY OF THE PAR	REDUCED MARSH IN FILL 0.60 Note 6		MASS ORDINATE Note 8
										STRUCT	URE B-06-	0196								
10+18.25	46.02	12.48	8.06	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10+25.00	47.33	12.28	15.69	0	0	0	12	3	3	0	0	0	12	4	0	0	0	0	0	5
10+50.00	39.97	11.53	10.22	0	0	0	40	11	12	0	0	0	52	19	0	0	0	0	0	19
10+68.25	40.91	11.22	1.54	0	0	0	27	8	4	0	0	0	79	24	0	0	0	0	0	33.67
					DIVISION 2	TOTALS	79	22	19	0	0	0								
					PROJECT	TOTALS	161	44	29	n	0	0								

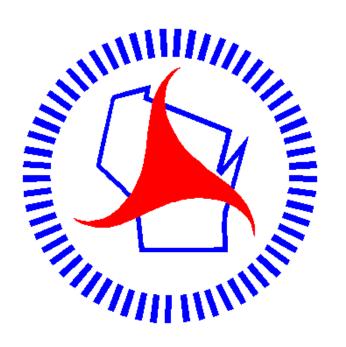
NOTES:	
1-CUT	CUT INCLUDES SALVAGED/UNUSABLE PAVEMENT MATERIAL
2 - SALVAGED/UNUSABLE PAVEMENT I	MAT THIS DOES NOT SHOW UP IN CROSS SECTIONS
3 - FILL	DOES NOT INCLUDE UNUSABLE PAVEMENT EXC VOLUME
4 - EXPANDED MARSH BACKFILL	WILL BE BACKFILLED WITH GRANULAR BACKFILL (OR CUT, OR BORROW)
5 - EXPANDED EBS	WILL BE BACKFILLED WITH GRANULAR BACKFILL (OR CUT, OR BORROW)
6 - REDUCED MARSH IN FILL	REDUCED MARSH EXCAVATION THAT CAN BE USED IN FILL
7 - REDUCED EBS IN FILL	REDUCED EBS EXCAVATION THAT CAN BE USED IN FILL
8 - MASS ORDINATE	IF MARSH OR EBS TO BE BACKFILLED WITH CUT OR BORROW: [(CUT + MARSH EXC + EBS) - ((FILL - REDUCED MARSH IN FILL) - (REDUCED EBS IN FILL) - EXPANDED ROCK) * FILL FACTOR)
8 - MASS ORDINATE	IF MARSH AND EBS TO BE BACKFILLED WITH GRANULAR: [(CUT + EBS + MARSH EXC) - ((FILL - (REDUCED MARSH IN FILL) - (REDUCED EBS IN FILL) - (EXPANDED ROCK)) * FILL FACTOR))]
8 - MASS ORDINATE	IF MARSH AND EBS TO BE BACKFILLED WITH GRANULAR: [(CUT) - ((FILL - EXPANDED ROCK) * FILL FACTOR))]
8 - MASS ORDINATE	IF MARSH AND EBS TO BE BACKFILLED WITH CUT OR BORROW: ((CUT) - ((FILL - EXPANDED ROCK) * FILL FACTOR)))

COUNTY: BUFFALO Ε PROJECT NO: 7363-00-70 HWY: CTH HH EARTHWORK SHEET

PLOT NAME :







Wisconsin Department of Transportation

Dedicated people creating transportation solutions through innovation and exceptional service.

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