JANUARY 2021

Section No.

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Section No.

TOTAL SHEETS =

ORDER OF SHEETS

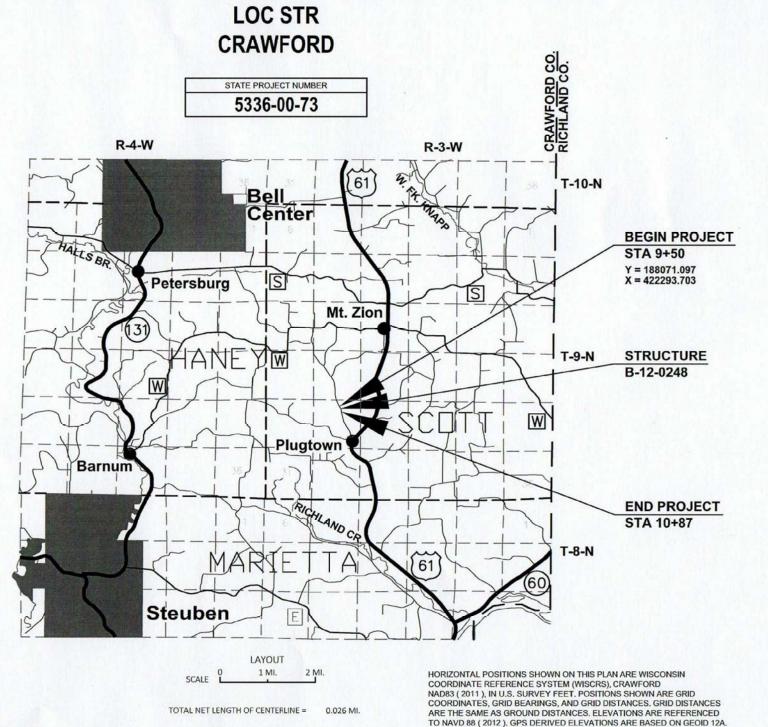
PLAN

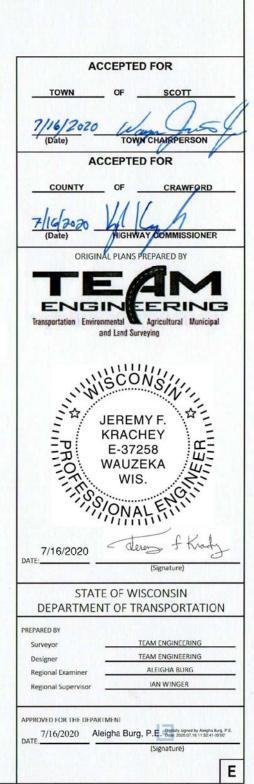
STATE OF WISCONSIN **DEPARTMENT OF TRANSPORTATION**

PLAN OF PROPOSED IMPROVEMENT

TOWN OF SCOTT, BYERS ROAD

(RICHLAND CREEK BRIDGE B-12-0248)





FEDERAL PROJECT

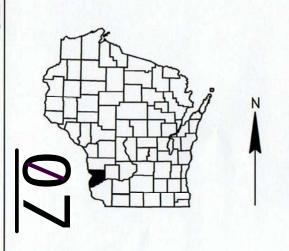
CONTRACT

PROJECT

WISC 2021078

STATE PROJECT

5336-00-73



Typical Sections and Details

Estimate of Quantities

Miscellaneous Quantities

Computer Earthwork Data

Cross Sections

34

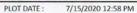
DESIGN DESIGNATION

A.A.D.T. (2021) = 115 (2041) = 135D.H.V. (2041) = 28 D.D. = 8% DESIGN SPEED = 40MPH

CONVENTIONAL SYMBOLS

CORPORATE LIMITS **GRADE LINE** PROPERTY LINE MARSH OR ROCK PROFILE LOT LINE (To be noted as such) LIMITED HIGHWAY EASEMENT SPECIAL DITCH **EXISTING RIGHT OF WAY GRADE ELEVATION** PROPOSED OR NEW R/W LINE SLOPE INTERCEPT CULVERT (Profile View) UTILITIES REFERENCE LINE ELECTRIC **EXISTING CULVERT** FIBER OPTIC PROPOSED CULVERT (Box or Pipe) SANITARY SEWER COMBUSTIBLE FLUIDS STORM SEWER MARSH AREA UTILITY PEDESTAL WOODED OR SHRUB AREA

PROFILE



LIST OF STANDARD ABBREVATIONS

Abutment ABUT. JT JCT LHF SEC Section Junction SHLDR Shoulder Aggregate Left-Hand Forward AGG. SHR Shrinkage Length of Curve SW Sidewalk Angle IN FT OR LE Linear Foot South Asphaltic ASPH Long Chord of Curve Square ASPR AVG. A.D.T BAD BK. BF B.M BR. Average SF OR SQ FT Square feet Square Yard МН Manhole Average Daily Traffic SY OR SQ YD STD SDD Base Aggregate Dense ML OR M/L Match Line Standard Standard Detail Drawings Back Face North Grid Coordiante STH STA State Trunk Highways Bench Mark Overall Length Outside Diameter OD PLE SS SG SE Storm Sewer Center Line C/L CC CTH Permanent Limited Easement Subgrade Center to Center Superelevation County Trunk Highway Point of Curvature SL OR S/L Survey Line Creek Point of Intersection CR. CY OR CU YD Septic Vent Crushed Point of Reverse Curvature Cubic Yard Point of Tangency Telephone Culvert Pipe POC POT PVC PCC Point on curve TEMP Temporary Curb and Gutter Point on Tangent Temporary Interest Degree of Curve DHV DIA TLE Polyvinyl Chloride Temporary Limited Easement Design Hour Volume Portland Cement Concrete Diameter T OR TN Pound Pounds Per Square Inch TRANS Transition East Grid Coordinate Private Entrance ELEC PE TL OR T/L Transit Line EL OR ELEV ESALS Radius Trucks (percent of) Flevation Typical Unclassified Railroad TYP Equivalent Single Axle Loads EBS FF FE Reference Line RL OR R/L UNCL Excavation Below Subgrade Reference Point Underground Cable United States Highway UG USH RCCP Reinforced Concrete Culvert Pipe Field Entrance Required REOD VAR Variable Residence or Residential RES Velocity or Design Speed Finished Grade Retaining Wall FL OR F/L VFRT RW Vertical Flow Line RT RHF Riaht Vertical Curve Right-Hand Forward FTG GN HT CWT HYD VOI Volume Footing Grid North Right-of-Way Water Main R/W WV Water Valve Height Road Hundredweight Roadway Westbound RDWY WB Hydrant Salvaged Sanitary Sewer Inside Diameter

DESIGNER

PROJECT NO: 5336-00-73

TEAM ENGINEERING, INC. 210 GUARD STREET WAUZEKA, WI 53826 ATTN: JEREMY KRACHY, P.E. PH: (608) 875-5075 jkrachey@teamenginc.com

DNR CONTACT

DEPARTMENT OF NATURAL RESOURCES 3550 MORMON COULEE ROAD LA CROSSE, WI 54601 ATTN: KAREN KALVELAGE ENVIRONMENTAL ANALYSIS & REVIEW SPECIALIST PH: (608) 785-9115 karen.kalvelage@wisconsin.gov

MUNICIPALITY CONTACT

CRAWFORD COUNTY HIGHWAY DEPARTMENT 21515 STATE HWY 27 SENECA, WI 54654 ATTN: KYLE KOZELKA, COMMISSIONER PH: (608) 734-9500 kkozelka@crawfordcountywi.org



Invert Iron Pipe or Pin

UTILITIES

DAIRYLAND POWER COOPERATIVE 3200 EAST AVE. S. P.O. BOX 817 LA CROSSE, WI 54601 ATTN: ROB MALY PH: (608) 788-4000 rob.maly@dairylandpower.com CENTURYLINK
333 N. FRONT ST.
LA CROSSE, WI 54601
ATTN: RYAN NIEMEIER
PH: (608) 796-5190
ryan.niemeier@centurylink.com

st - NOT A MEMBER OF DIGGER'S HOTLINE.

GENERAL NOTES

NO TREES OR SHRUBS ARE TO BE REMOVED UNLESS SUCH TREES OR SHRUBS HAVE FIRST BEEN INDICATED FOR REMOVAL BY THE ENGINEER IN THE FIELD.

EXCAVATION BELOW SUBRGRADE (EBS) IS NOT USED TO BALANCE YARDAGE AND IS NOT SHOWN ON THE CROSS SECTIONS, BUT IS MEASURED AND PAID FOR AS EXCAVATION COMMON. THE LOCATION OF EBS WILL BE DETERMINED BY THE ENGINEER IN THE FIELD.

FILL EXPANSION IS ESTIMATED AT 20%.

DISTURBED AREAS SHOWN WITHIN THE RIGHT-OF-WAY, EXCEPT THE AREAS WITHIN THE FINISHED SHOULDER POINTS, ARE TO BE FERTILIZED (TYPE B), SEEDED (USE SEEDING MIXTURE #20 AND SEEDING TEMPORARY), EROSION MAT, AND MULCHED AS DIRECTED BY THE ENGINEER IN THE FIELD.

THE LOCATIONS OF SILT FENCE, SALVAGED TOPSOIL, SEEDING MIX #20, SEEDING TEMPORARY, EROSION MAT, MULCH AND TEMPORARY DITCH CHECKS ARE APPROXIMATE. LOCATIONS ARE TO BE DETERMINED BY THE ENGINEER IN THE FIELD.

REMOVAL OF ASPHALTIC SURFACES WHERE AN ABUTTING ASPHALTIC SURFACE IS TO REMAIN IN PLACE SHALL REQUIRE A SAWCUT MEETING THE APPROVAL OF THE ENGINEER IN THE FIELD.

THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS AS SHOWN ON THE PLAN ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT AREA THAT ARE NOT SHOWN.

ELEVATIONS SHOWN ON THE PLAN ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 2019 (NAVD88).

BEARINGS ON THE PLAN ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM, CRAWFORD COUNTY.

EROSION CONTROL DEVICES SHALL BE INSTALLED PRIOR TO CONSTRUCTION. EROSION CONTROL ITEMS ON THE PLAN ARE AT SUGGESTED LOCATIONS. EXACT LOCATIONS AND DIMENSIONS WILL BE DETERMINED BY THE ENGINEER IN THE FIELD. ALL EROSION CONTROL DEVICES SHALL BE MAINTAINED UNTIL SUCH TIME AS THE ENGINEER IN THE FIELD DEEMS THE DEVICES NO LONGER NECESSARY.

4-INCH ASPHALTIC SURFACE SHALL BE PLACED WITH A 2 1/4-INCH LOWER LAYER AND A 1 3/4-INCH UPPER LAYER. THE NOMINAL SIZE OF AGGREGATE USED FOR THE LOWER LAYER SHALL BE 19.0 MM AND THE UPPER LAYER SHALL BE 12.5 MM.

EXACT DIMENSIONS OF ANY PART ITEM CONTAINING THE WORK "RIPRAP" SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD.

RUNOFF COEFFICIENT TABLE

HYDROLOGIC SOIL GROUP												
		P	4		В С)	D			
	S		RANGE CENT)	SLOPE RANGE (PERCENT)		SLOPE RANGE (PERCENT)		SLOPE RANGE (PERCENT)				
LAND USE	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER
ROW CROPS	.08 .22	.16 .30	.22 .38	.12 .26	.20 .34	.27 .44	.15 .30	.24 .37	.33 .50	.19 .34	.28 .41	.38 .56
MEDIAN STRIP- TURF	.19 .24	.20 .26	.24 .30	.19 .25	.22 .28	.26 .33	.20 .26	.23 .30	.30 .37	.20 .27	.25 .32	.30 .40
SIDE SLOPE- TURF			.25 .32			.27 .34			.28 .36			.30 .38
PAVEMENT: ASPHALT .7095 CONCRETE .8095 BRICK .7080 DRIVES,WALKS .7585 ROOFS .7595												
GRAVEL ROADS SH	OULDE	ERS				.40 —	.60					

TOTAL PROJECT AREA = 0.18 ACRES

TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = 0.15 ACRES

HWY: BYERS ROAD

COUNTY: CRAWFORD

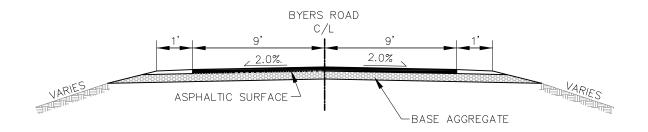
GENERAL NOTES & UTILITIES

7/20/2020 7:46 AM

OT BY: BRAD SCHROEDER

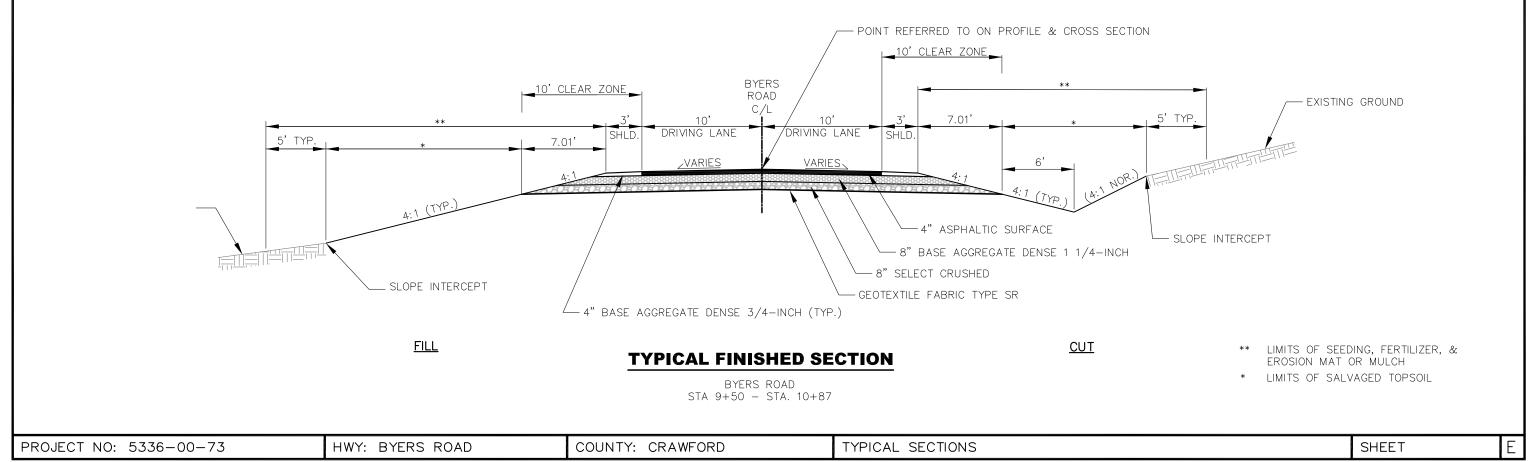
SHEET

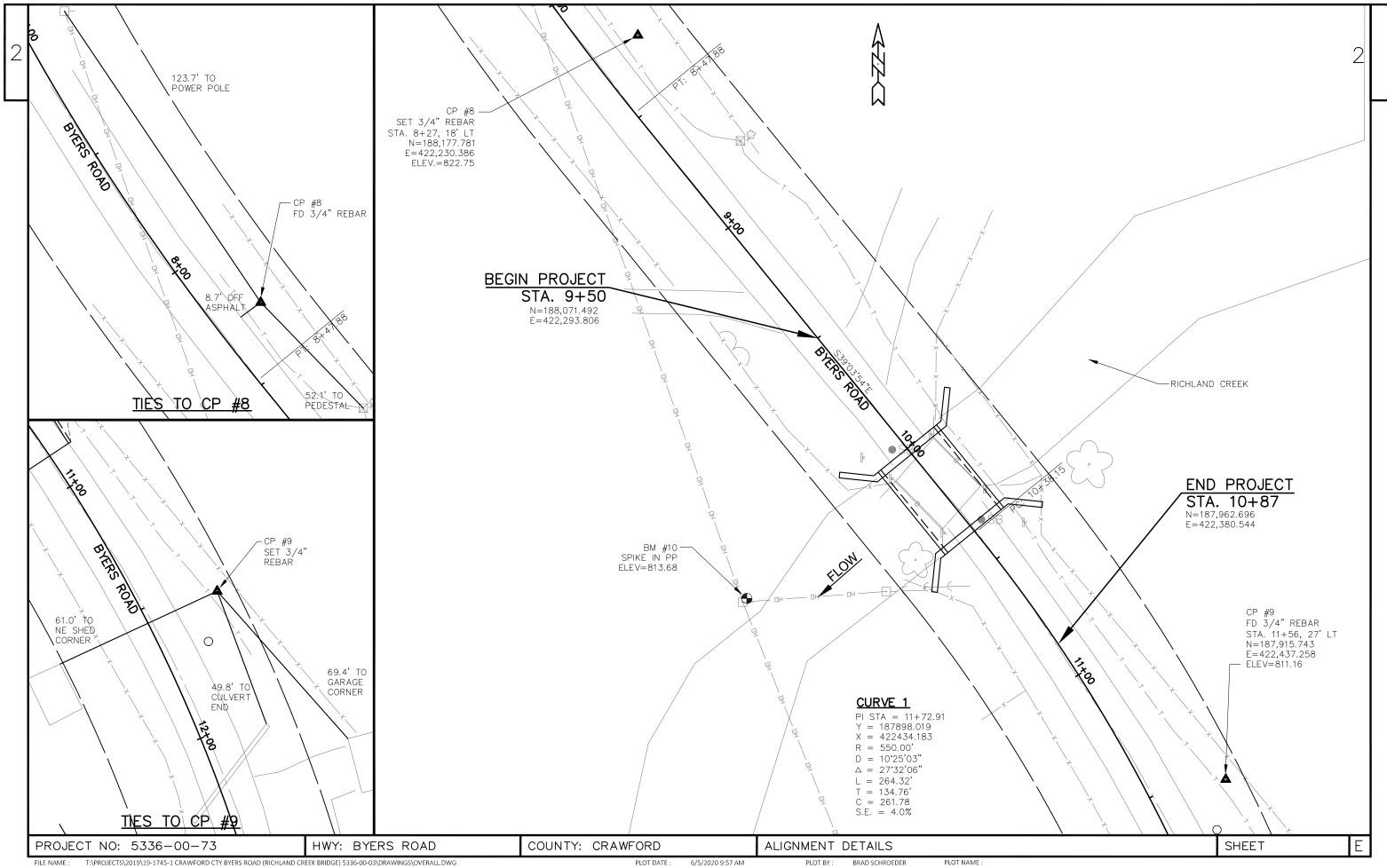
2



TYPICAL EXISTING SECTION

BYERS ROAD





Estimate Of Quantities Page 2

					5336-00-73
Line	Item	Item Description	Unit	Total	Qty
0076	630.0500	Seed Water	MGAL	9.000	9.000
0078	634.0614	Posts Wood 4x6-Inch X 14-FT	EACH	4.000	4.000
0800	637.2230	Signs Type II Reflective F	SF	12.000	12.000
0082	638.2602	Removing Signs Type II	EACH	6.000	6.000
0084	638.3000	Removing Small Sign Supports	EACH	6.000	6.000
0086	642.5001	Field Office Type B	EACH	1.000	1.000
8800	643.0420	Traffic Control Barricades Type III	DAY	1,162.000	1,162.000
0090	643.0705	Traffic Control Warning Lights Type A	DAY	1,992.000	1,992.000
0092	643.0900	Traffic Control Signs	DAY	1,162.000	1,162.000
0094	643.5000	Traffic Control	EACH	1.000	1.000
0096	645.0111	Geotextile Type DF Schedule A	SY	90.000	90.000
0098	645.0120	Geotextile Type HR	SY	200.000	200.000
0100	645.0135	Geotextile Type SR	SY	370.000	370.000
0102	650.4500	Construction Staking Subgrade	LF	100.000	100.000
0104	650.5000	Construction Staking Base	LF	100.000	100.000
0106	650.6500	Construction Staking Structure Layout (structure) 01. B-12-0248	LS	1.000	1.000
0108	650.9910	Construction Staking Supplemental Control (project) 01. 5336-00-73	LS	1.000	1.000
0110	650.9920	Construction Staking Slope Stakes	LF	100.000	100.000
0112	690.0150	Sawing Asphalt	LF	32.000	32.000
0114	715.0502	Incentive Strength Concrete Structures	DOL	960.000	960.000
0116	ASP.1T0A	On-the-Job Training Apprentice at \$5.00/HR	HRS	1,200.000	1,200.000
0118	ASP.1T0G	On-the-Job Training Graduate at \$5.00/HR	HRS	1,200.000	1,200.000

CLEARING &	GRUBBING
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STATION-STATION	LOCATION	(201.0105) CLEARING (STA)	(201.0205) GRUBBING (STA)
9+50-10+50	LT & RT	1	1
	TOTALS	1	1

EARTHWORK SUMMARY

STATION-STATION	LOCATION	(205.0100) EXCAVATION COMMON (1) (CY)	UNEXPANDED FILL (CY)	EXPANDED FILL (2) (20%) (CY)	MASS ORDINATE +/- (3) (CY)	WASTE (CY)
9+50-10+01 10+38-10+87	BYERS RD. BYERS RD.	118 109	0	0	118 109	118 109
10100 10107	TOTALS	227	0	0	103	227

BASE AGGREGATE DENSE

STATION-STATION	LOCATION	(305.0110) 3/4-INCH (TON)	(305.0120) 1 1/4-INCH (TON)	
9+50-10+87 9+65	CTH C P.E., LT	20 15	170 –	
	TOTALS	35	170	

- 1.) SALVAGED/UNUSABLE PAVEMENT IS INCLUDED IN CUT
- 2.) AVAILABLÉ MATERIAL = CUT
- 3.) EXPANDED FILL FACTOR 1.20: EXPANDED FILL =(UNEXPANDED FILL)*1.20
- 4.) THE MASS ORDINATE +OR- QTY CALCULATED FOR THE DIVISION. PLUS QUANTITY INDICATED AN EXCESS OF MATERIAL WITHIN THE CATEGORY. MINUS INDICATES A SHORTAGE OF MATERIAL WITHIN THE CATEGORY.

SELECT CRUSHED

STATION-STATION	LOCATION	(312.0110) (TON)
9+50-10+87	BYERS RD.	190
	TOTALS	190

ASPHALTIC ITEMS

STATION-STATION	LOCATION	(455.0605) TACK COAT (GAL)	(465.0105) ASPHALTIC SURFACE (TON)
9+50-10+01 10+38-10+87	BYERS RD. BYERS RD.	10 10	35 35
	TOTALS	20	70

WATER

STATION-STATION	LOCATION	(624.0100) (MGAL)
9+50-10+87	BYERS RD.	5
	TOTALS	5

FINISHING ITEMS

_STATION-STATION	LOCATION	(625.0500) SALVAGED TOPSOIL (SY)	(627.0200) MULCHING (SY)	(628.2008) EROSION MAT URBAN CLASS I TYPE B (SY)	(629.0210) FERTILIZER TYPE B (CWT)	(630.0120) SEEDING MIXTURE NO. 20 (LB)	(630.0200) SEEDING TEMPORARY (LB)	(630.0500) SEED WATER (MGAL)
9+50-10+01	BYERS RD. LT & RT	120	_	135	0.15	7	_	_
10+38-10+87	BYERS RD. LT & RT	140	_	100	0.15	8	_	_
	UNDISTRIBUTED	60	50	55	0.1	5	15	9
	TOTALS	320	50	290	0.4	20	15	9

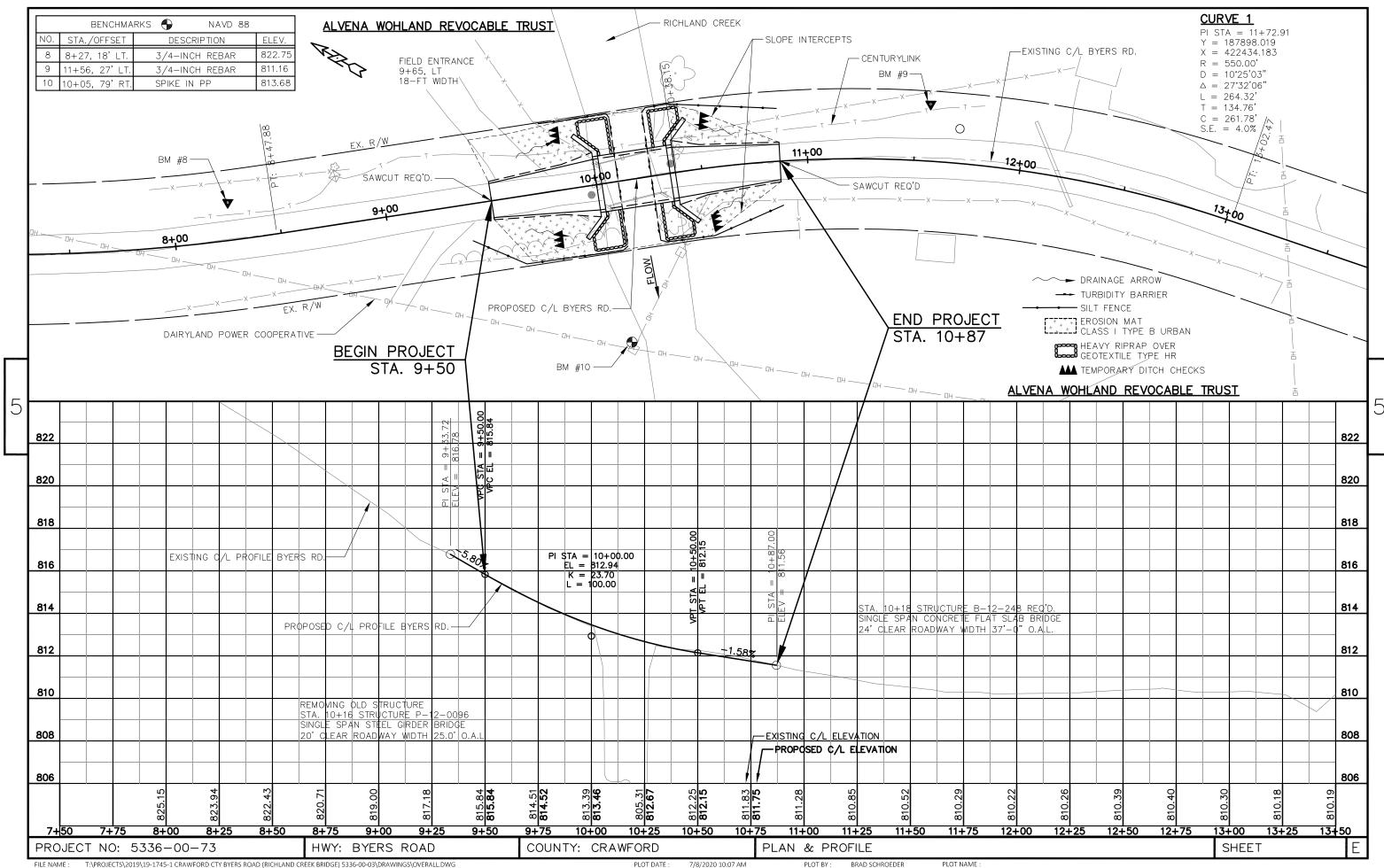
MOBILIZATIONS EROSION CONTROL

PROJECT		(628.1905) MOBILIZATIONS EROSION CONTROL (EACH)	(628.1910) MOBILIZATIONS EMERGENCY EROSION CONTROL (EACH)
5336-00-73		3	2
	TOTALS	3	2

NOTE: UNLESS NOTED, ALL ITEMS ARE IN CATEGORY 0010.

HWY: BYERS ROAD COUNTY: CRAWFORD SHEET PROJECT NO: 5336-00-73 MISCELLANEOUS QUANTITIES

TEMPORARY DITCH CHECKS (628.7504)	TURBIDITY BARRIER
TEMPORARY DITCH CHECKS	(628.6005) LOCATION (SY)
STATION LOCATION (LF) UNDISTRUBED 48	NORTH ABUTMENT 50 SOUTH ABUTMENT 50
TOTALS 48	TOTALS 100
REMOVING SIGNS TYPE II & REMOVING SMALL SIGN SUPPORTS	SILT FENCE & SILT FENCE MAINTENANCE
STATION LOCATION DESCRIPTION (638.2602) (638.3000)	STATION—STATION LOCATION (LF) (LF) 9+50-10+01 BYERS RD. 170 340 10+38-10+87 BYERS RD. 180 360 TOTALS 350 700
10+45 LT 10 TON 1 1 1 TOTALS 6 6	PERMANENT SIGNING
TRAFFIC CONTROL	SIGN
BYERS RD R11-2B HARD CLOSURE @ EOP 83 249 332 83 BYERS RD R11-2B BRIDGE OUT BARRICADES 83 166 332 83 BYERS RD W20-3D RD CLOSED 500 FT 83 - - 83 BYERS RD W20-3C RD CLOSED 1000 FT 83 - - 83 BYERS RD W20-3 RD CLOSED AHEAD 83 - - 83 BYERS RD/CHILDS R11-3 BARRICADES/SIGNS 83 166 332 166	GEOTEXTILE TYPE SR (645.0135)
HOLLOW RD TOTALS 1162 1992 1162	STATION—STATION LOCATION (SY) 9+50-10+00 BYERS RD 186 10+38+10+87 BYERS RD 184
CONSTRUCTION STAKING	TOTALS 370
(650.6500) (650.9910) (650.9920) (650.4500) (650.5000) STRUCTURE SUPPLEMENTAL SLOPE SUBGRADE BASE LAYOUT CONTROL STAKING	SAWING ASPHALT
STATION—STATION LOCATION (LF) (LF) (LS) (LF) 9+50-10+00 BYERS RD 50 50 - 0.5 50 10+38-10+87 BYERS RD 50 50 - 0.5 50	(690.0150) STATION LOCATION (LF) 9+50 BYERS RD 16
TOTALS 100 100 1 * 1 100 * CATEGORY 0020	10+87 BYERS RD 16 TOTALS 32
ROJECT NO: 5336-00-73 HWY: BYERS ROAD COUNTY: CRAWFORD	MISCELLANEOUS QUANTITIES SHEET



Standard Detail Drawing List

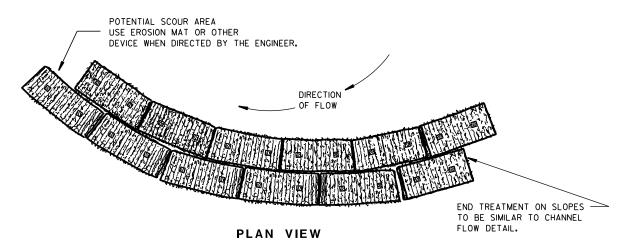
08E08-03	TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS
08E09-06	SILT FENCE
12A03-10	NAME PLATE (STRUCTURES)
15C02-08A	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-08B	BARRICADES AND SIGNS FOR VARIOUS CLOSURES
15C06-09	SIGNING & MARKING FOR TWO LANE BRIDGES
15D38-02A	TEMPORARY TRAFFIC CONTROL SIGN MOUNTING
15D38-02B	ATTACHMENT OF SIGNS TO POSTS

6

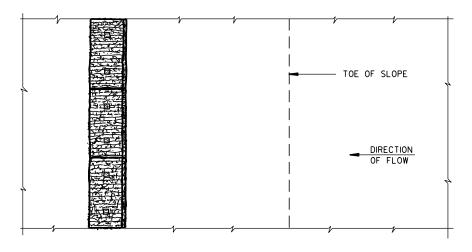
GENERAL NOTES

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.

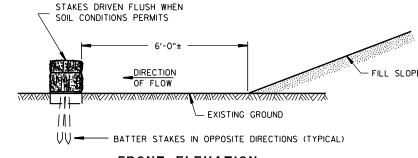
TEMPORARY DITCH CHECKS EITHER EROSION BALES OR MANUFACTURED SHALL BE PAID FOR UNDER THE BID ITEM OF TEMPORARY DITCH CHECK. THE DEPARTMENT WILL NOT PAY FOR TEMPORARY DITCH CHECKS CONSTRUCTED OF A SINGLE ROW OF EROSION BALES.



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

6

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STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED

6/04/02 /S/ Beth Connestro
CHIEF ROADWAY DEVELOPMENT ENGINEER

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TYPICAL APPLICATION OF SILT FENCE

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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)

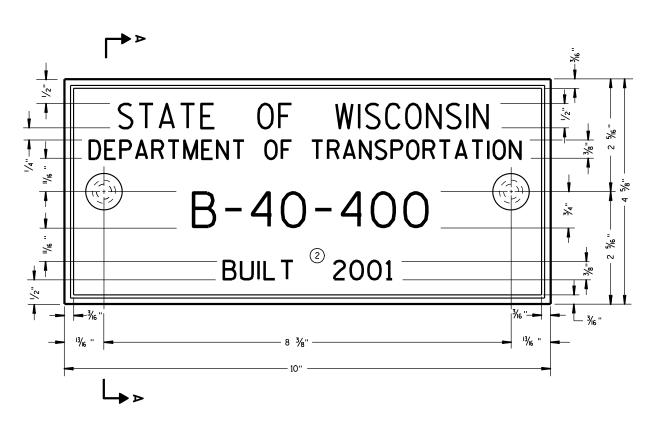


SILT FENCE

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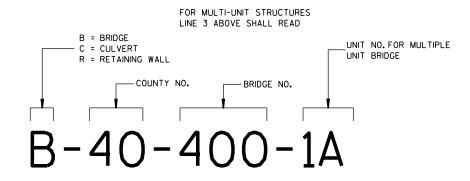
6





TYPICAL NAME PLATE

(BRIDGES, CULVERTS, AND RETAINING WALLS)



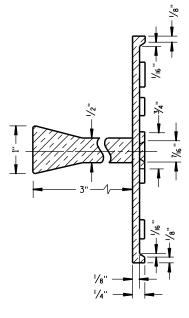
NUMBERING DESIGNATION MULTI-UNIT STRUCTURES

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.

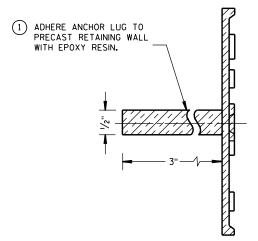
- 1 EPOXY RESIN SHALL BE FROM AN APPROVED MANUFACTURER AND USED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
- (2) REHABILITATION OF AN EXISTING STRUCTURE SHOULD USE THE DATE OF ORIGINAL STRUCTURE CONSTRUCTION.



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

SECTION A-A

ALTERNATE LUG



ALTERNATE LUG

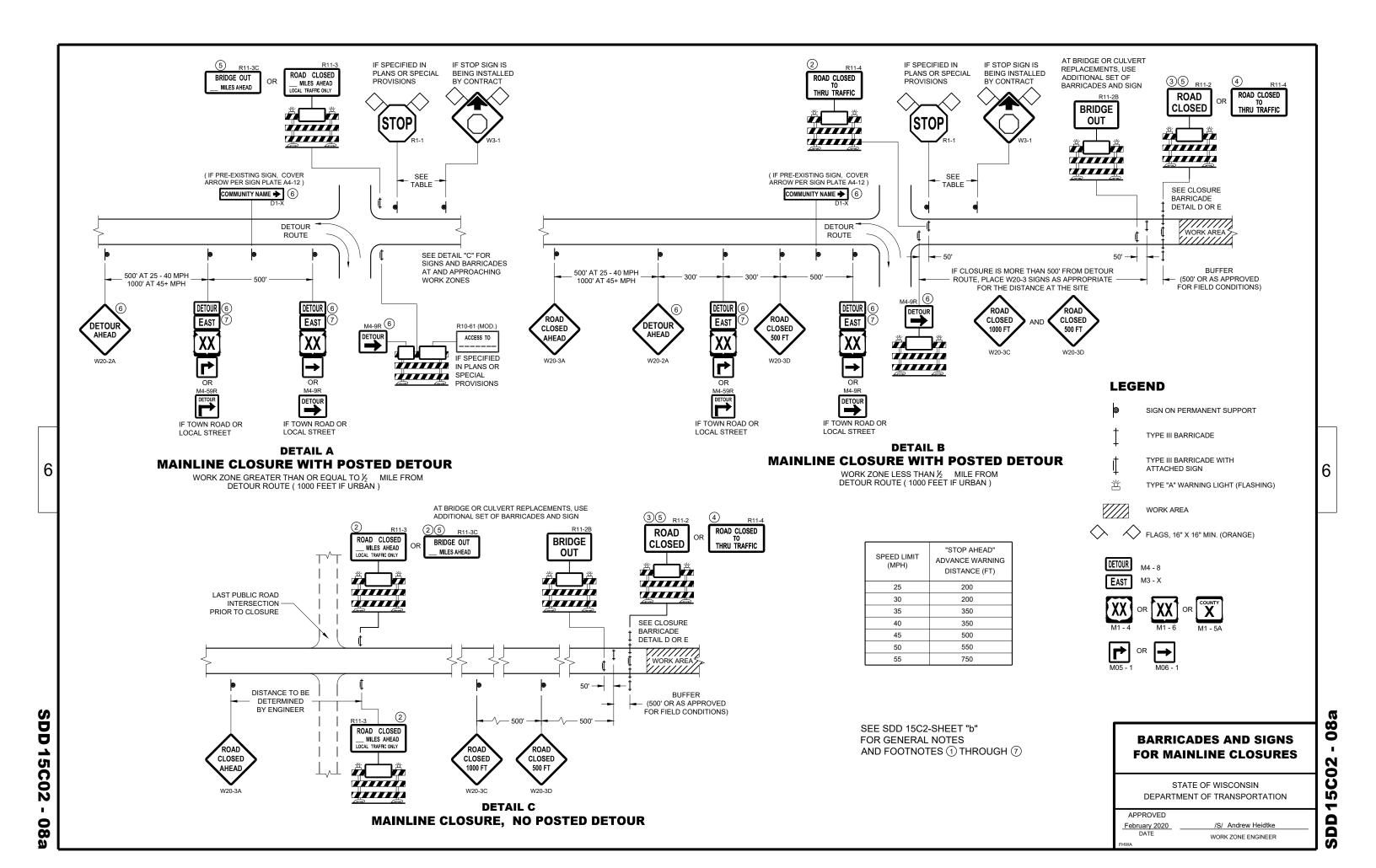
(FOR ATTACHMENT TO PRECAST STRUCTURES)

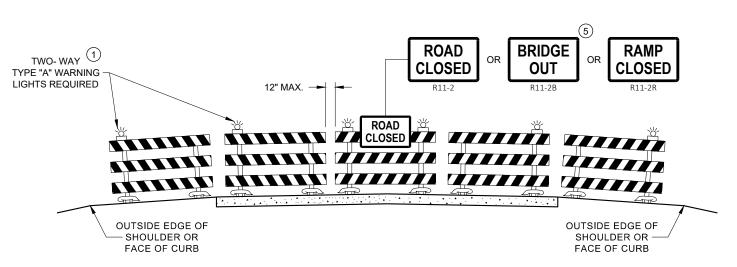
NAME PLATE (STRUCTURES)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

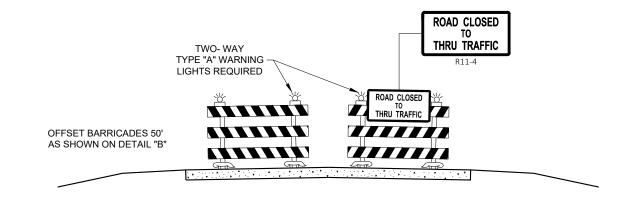
APPROVED

 D. 12 A 3-10





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 <u>WITHOUT</u> 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

February 2020
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEER

DD 15C02 - 08





TUBULAR STEEL POSTS

AREA OF SIGN INSTALLATION (SO. FT.)	NUMBER OF REQUIRED TUBULAR STEEL 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 SO.FT. SHALL BE MOUNTED ON MULTIPLE POSTS (SEE ABOVE TABLE). SIGNS LARGER THAN 27 SO.FT. SHALL NOT BE MOUNTED ON TUBULAR STEEL POSTS.

URBAN AREA

POST MOUNTING DETAIL FOR TEMPORARY TRAFFIC CONTROL FIXED MESSAGE SIGNS

WOOD POST **EMBEDMENT DEPTH**

AREA OF SIGN INSTALLATION (SQ. FT.)	D (MIN)
20 OR LESS	4'
GREATER THAN 20	5'

4" X 6" WOOD POST

POST SPACING REQUIREM	NUMBER OF		
L	E	WOOD POSTS REQUIRED	
48" OR LESS AND LESS THAN 20 SO.FT.	-	1	
LESS THAN 60"	12"	2	٤
60" TO 120"	L/5	2	
GREATER THAN 120" LESS THAN 168"	12"	3	
168" AND GREATER	12"	4	

SEE NOTE (3)

RURAL AREA

TEMPORARY TRAFFIC CONTROL SIGN MOUNTING

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

-11

D D 15 D ∞

6

Δ

 ∞

6

- 11/2" DIAMETER HOLES

Ω

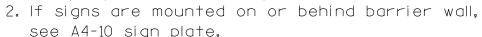
Ω

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

> /S/ Andrew Heidtke WORK ZONE ENGINEER

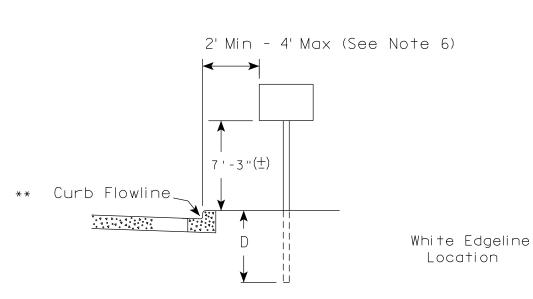
APPROVED

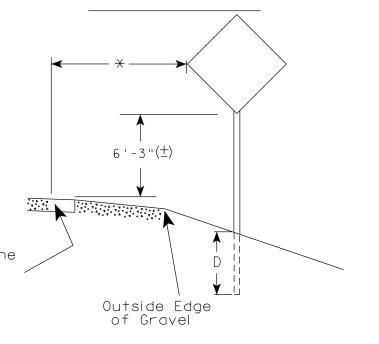
June 2017 DATE



The Double Arrow sign (W12-1D) shall be mounted at a height of 2'-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'' ($\frac{+}{-}$).

- 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 $5' - 3'' \stackrel{(\pm)}{.}$
- 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.





2' Min - 4' Max (See Note 6) 6'-3"(±) ** Curb Flowline D

5'-3"(士) White Edgeline $D \parallel$ Location 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 measured from the flow line.

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.

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 For State Traffic Engineer

DATE 5/13/2020

SHEET NO:

Ε

PROJECT NO: FILE NAME : C:\CAEfiles\Projects\tr_stdplate\A43.dgn COUNTY:

PLOT BY: mscj9h

PLOT NAME :

PLOT SCALE: \$\$.....plo†scale.....\$\$ WISDOT/CADDS SHEET 42

PLOT DATE: 13-MAY 2020 1:04



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

Nather R Raw
For State Traffic Engineer

DATE <u>8/11/16</u>

PLATE NO. <u>44-8.8</u>

PROJECT NO:

FILE NAME : C:\CAFfiles\Projects\tr stdplote\A48 DCN

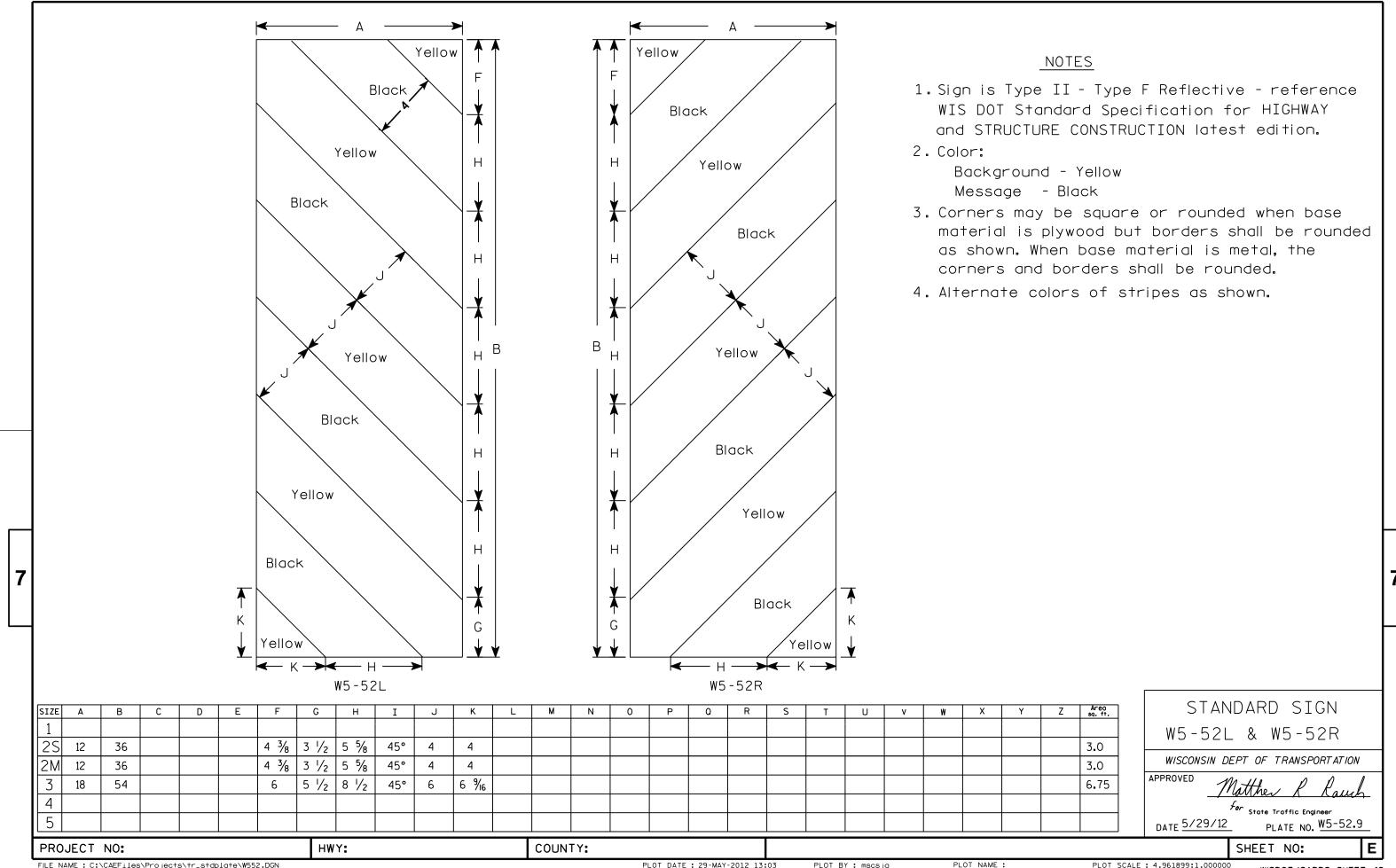
PLOT DATE . 11-416-2016 11:35

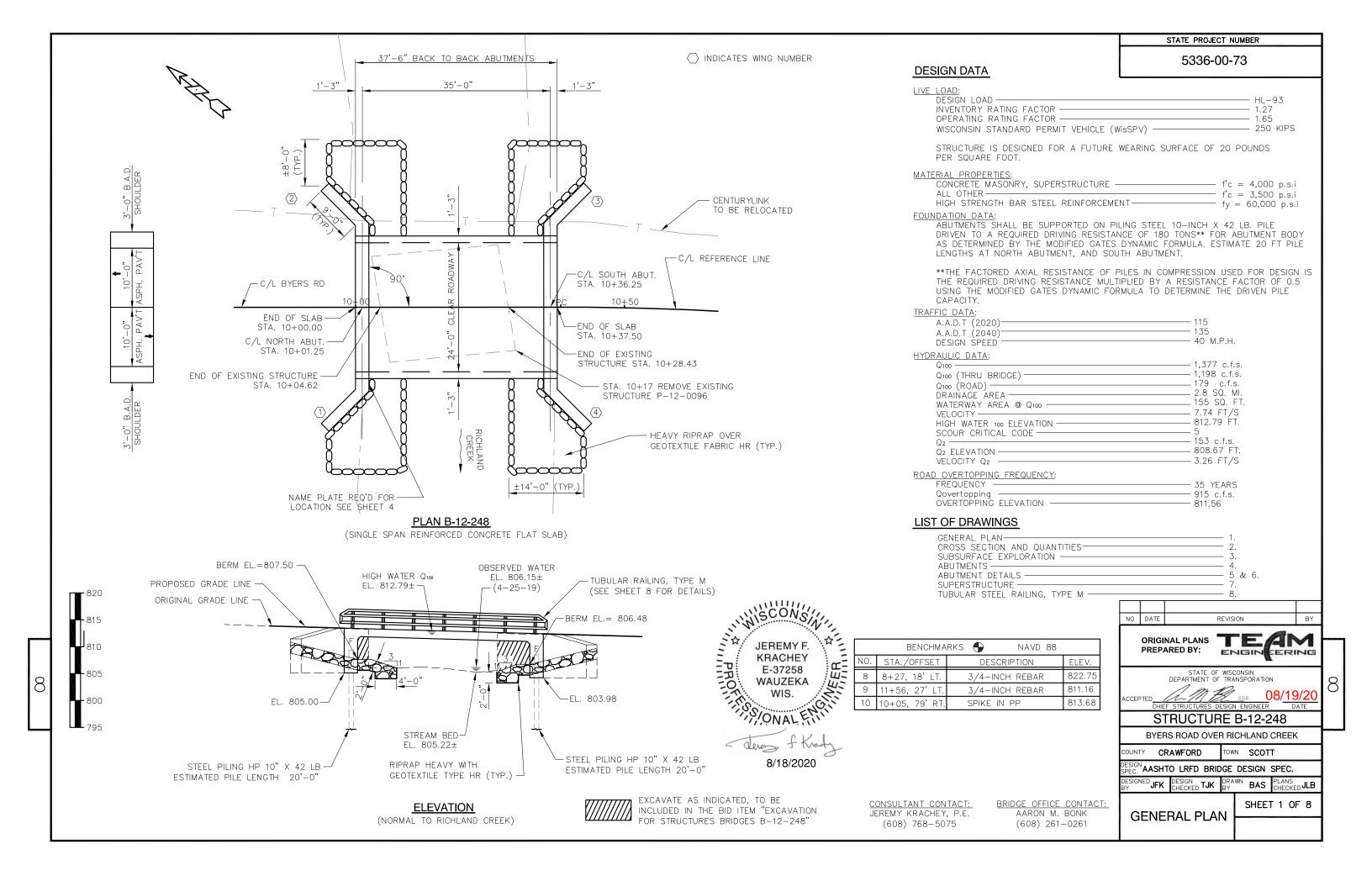
PINT RY * \$\$ nintuser \$\$

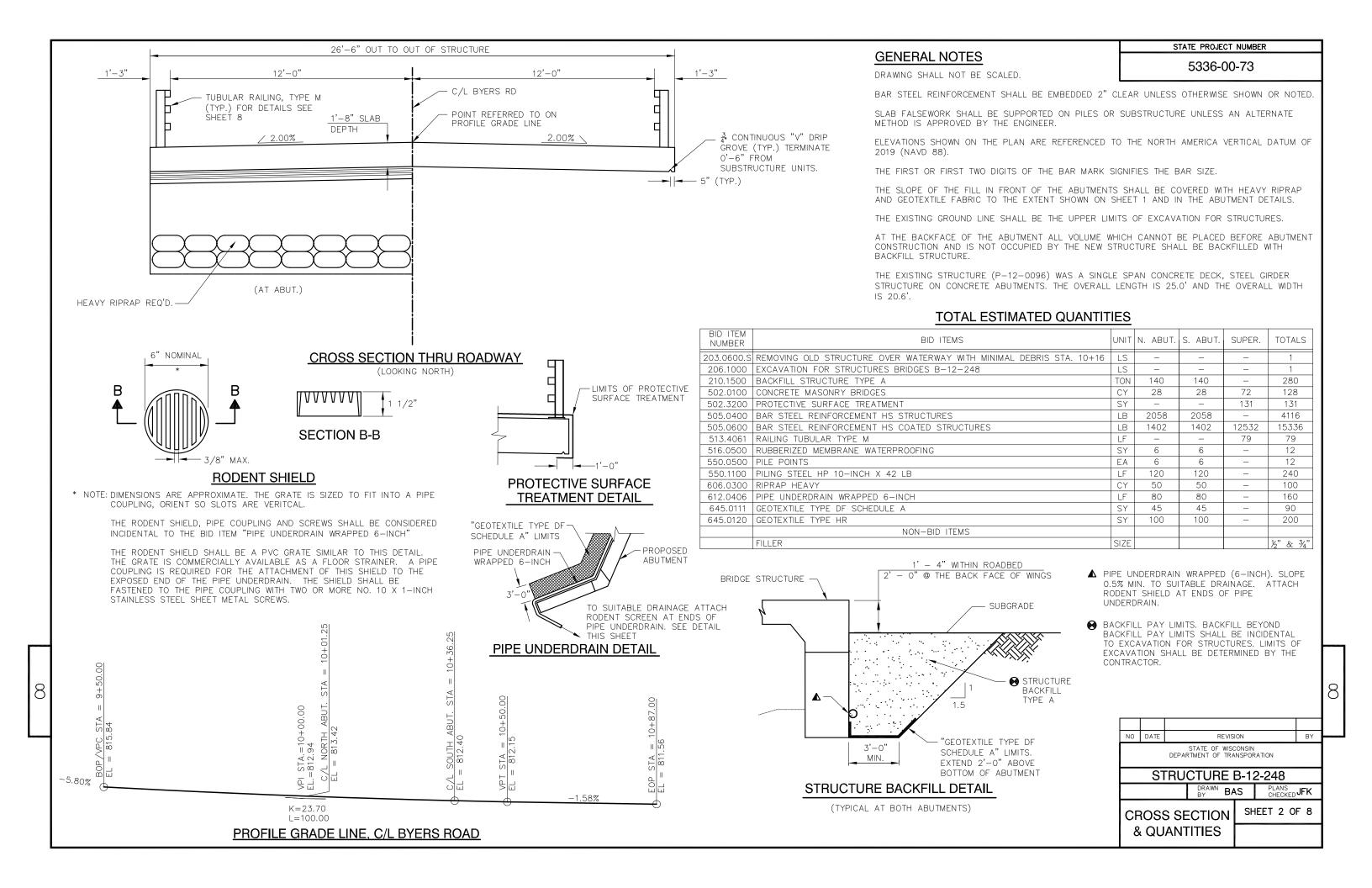
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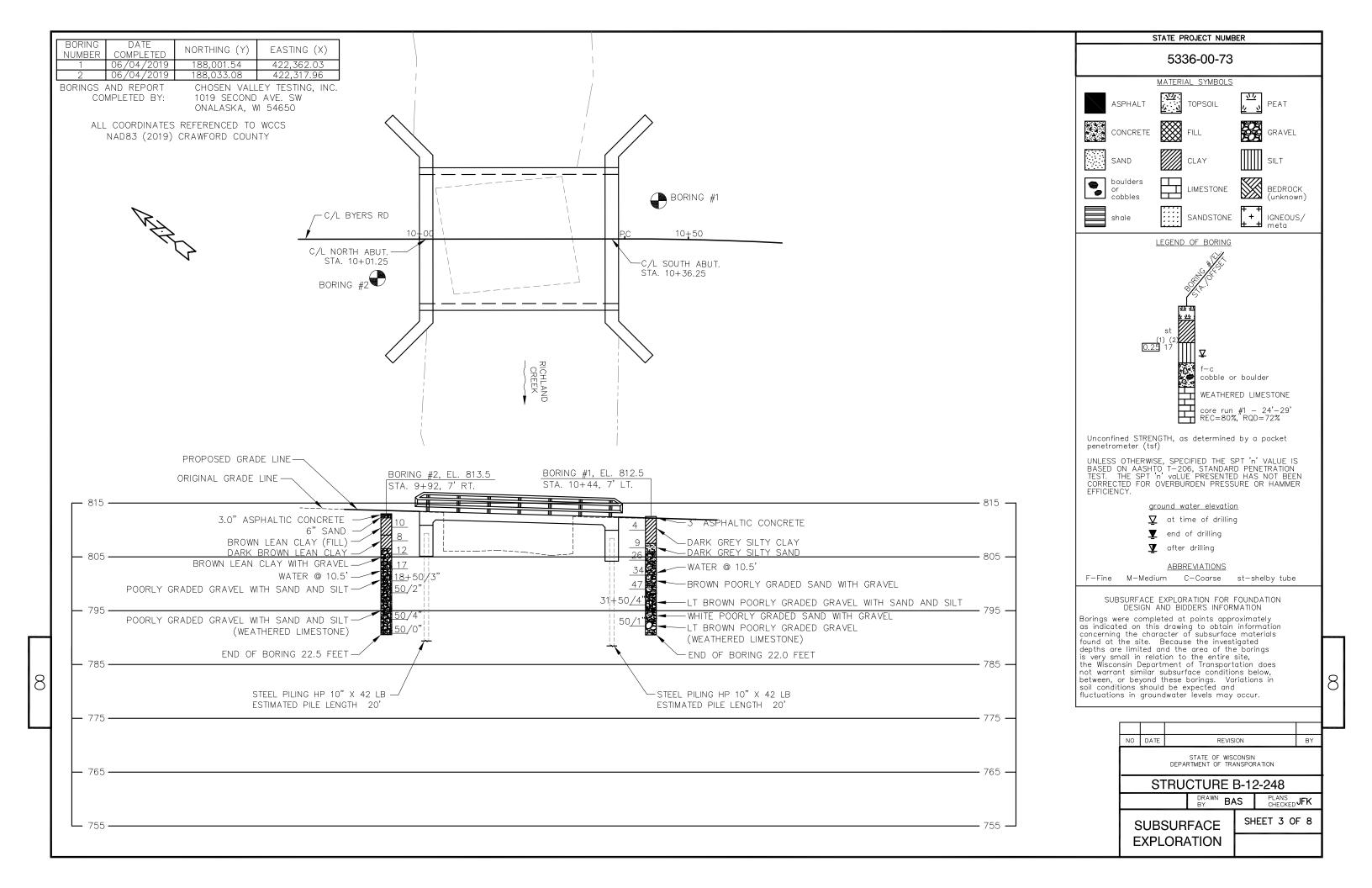
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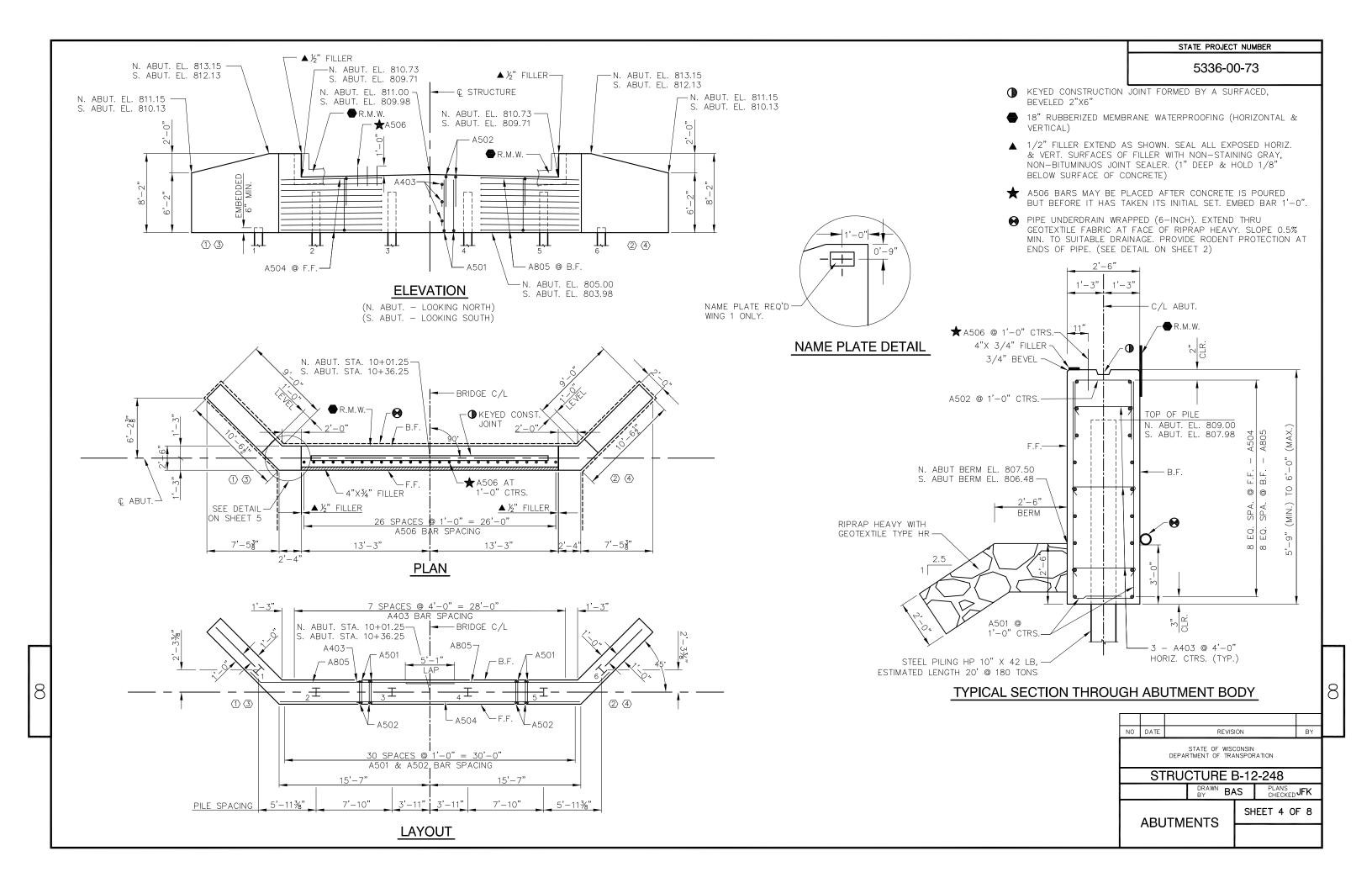






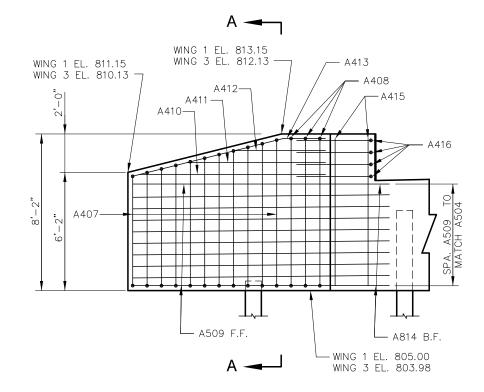




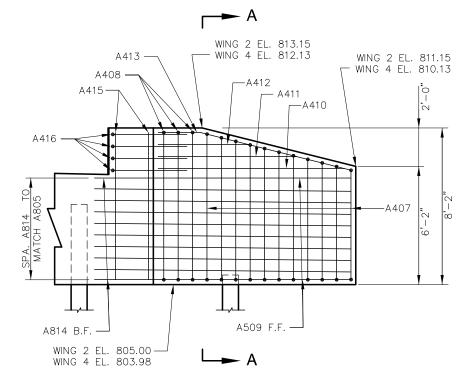


STATE PROJECT NUMBER

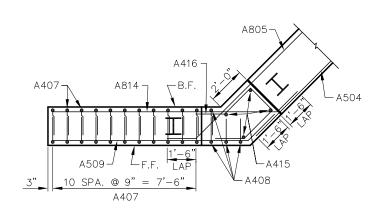
5336-00-73



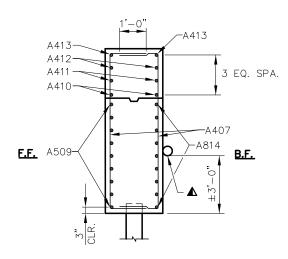
F.F. ELEVATION - WING 1 & 3



F.F. ELEVATION - WING 2 & 4

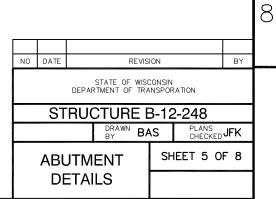


PLAN - WINGS 1 THRU 4



SECTION A-A WINGS 1 THRU 4

♠ PIPE UNDERDRAIN WRAPPED (6-INCH). SLOPE 0.5% MIN. TO SUITABLE DRAINAGE. ATTACH RODENT SHIELD AT ENDS OF PIPE UNDERDRAIN. (SEE DETAIL ON SHEET 2)

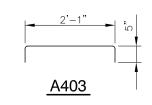




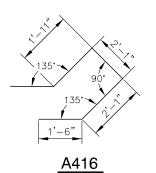
(TWO ABUTMENTS SHOWN)					UNCOATED 4,116 LBS.
MARK	NO. REQ'D	CORT	LENGTH	BENT	LENGTH
A501	124		6'-10"	X	BODY F.F. & B.F VERT.
A502	62		7'-10"	X	BODY TIES @ TOP VERT.
A403	48		2'-9"	X	BODY TIES - HORIZ.
A504	18		30'-10"		BODY F.F HORIZ.
A805	36		21'-5"	X	BODY B.F HORIZ.
A506	54	X	2'-0"		BODY - F.F DOWELS - VERT.
■ A407	88	X	9'-1"	Х	WINGS 1 THRU 4 - STIRRUPS - VERT.
A408	16	X	10'-1"	Х	WINGS 1 THRU 4 - F.F. & B.F VERT.
A509	36	X	11'-8"	X	WINGS 1 THRU 4 - F.F HORIZ.
A410	8	X	9'-8"		WINGS 1 THRU 4 - F.F. & B.F HORIZ.
A411	8	X	7'-2"		WINGS 1 THRU 4 - F.F. & B.F HORIZ.
A412	8	X	4'-8"		WINGS 1 THRU 4 - F.F. & B.F HORIZ.
A413	8	X	10'-2"	X	WINGS 1 THRU 4 - F.F. & B.F HORIZ.
A814	36	Х	13'-2"	X	WINGS 1 THRU 4 - B.F HORIZ.
A415	16	Х	7'-8"		WINGS 1 THRU 4 - VERT.
A416	16	Χ	8'-9"	Х	WINGS 1 THRU 4 - HORIZ.

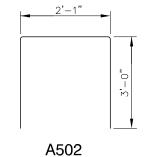
COATED

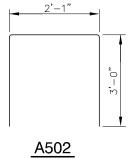
■ LENGTH SHOWN FOR BAR IS AN AVERAGE LENGTH AND SHOULD ONLY BE USED FOR BAR WEIGHT CALCULATIONS. SEE BAR SERIES TABLE FOR ACTUAL LENGTHS.



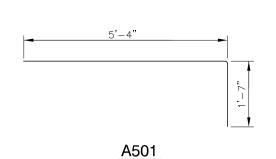
2,804 LBS.







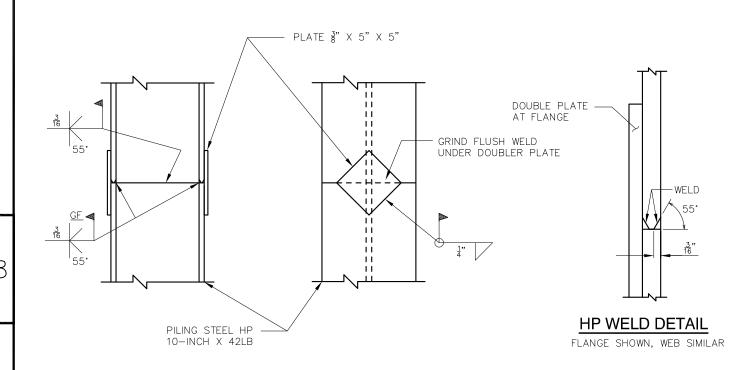
A413



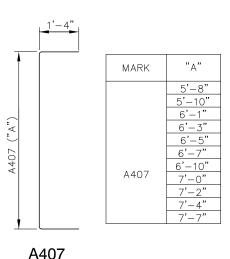
STATE PROJECT NUMBER 5336-00-73

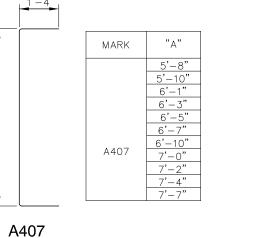


A805, A509, A814



PILE SPLICE DETAIL



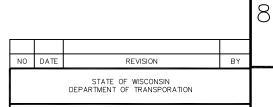


	1'-4"
* _∞	
7'-8"	
1	

A408

BAR SERIES TABLE

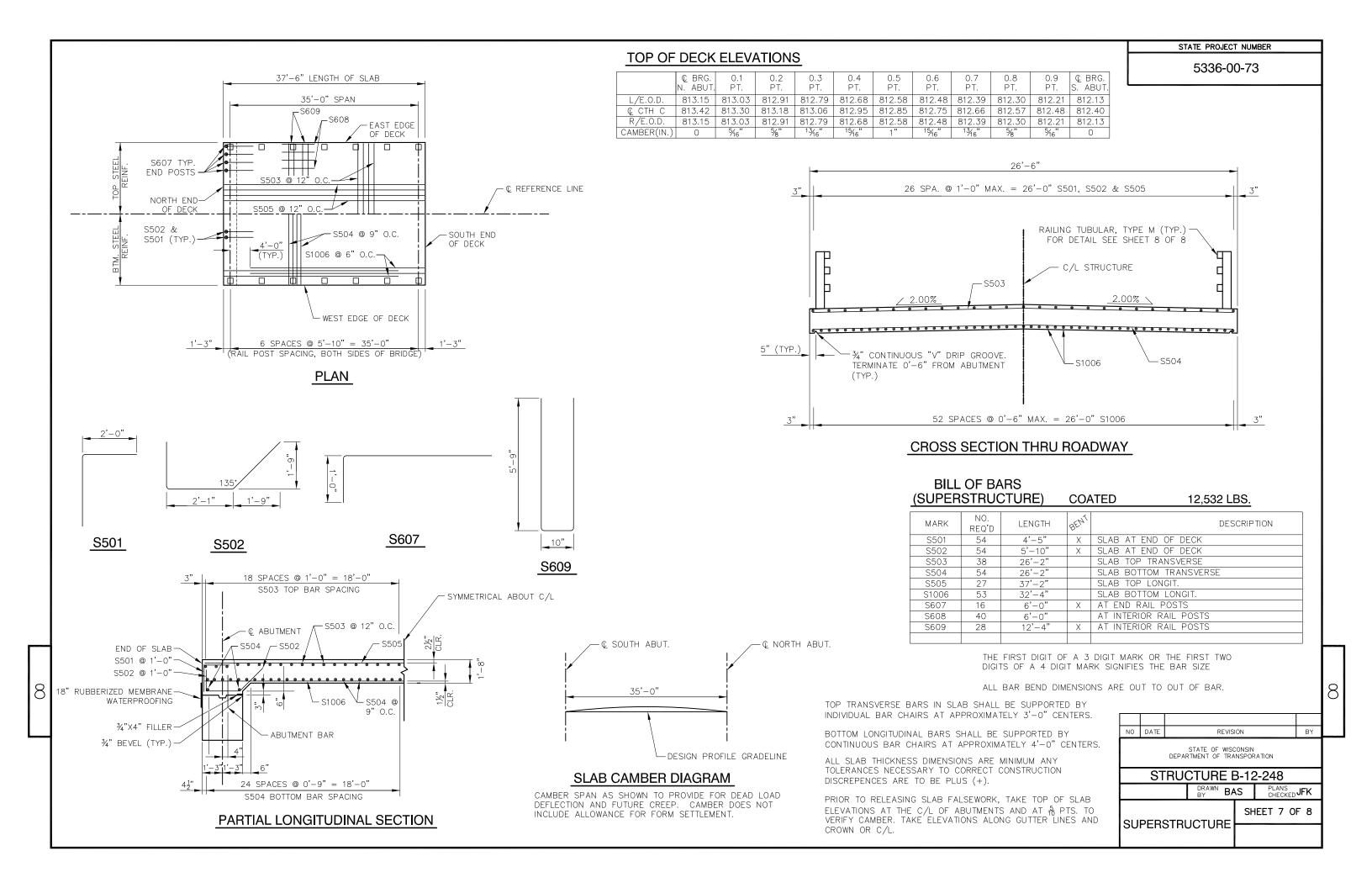
MARK	NO. REQ'D	LENGTH
A407	4 SERIES OF 11	8'-1" TO 10'-0"

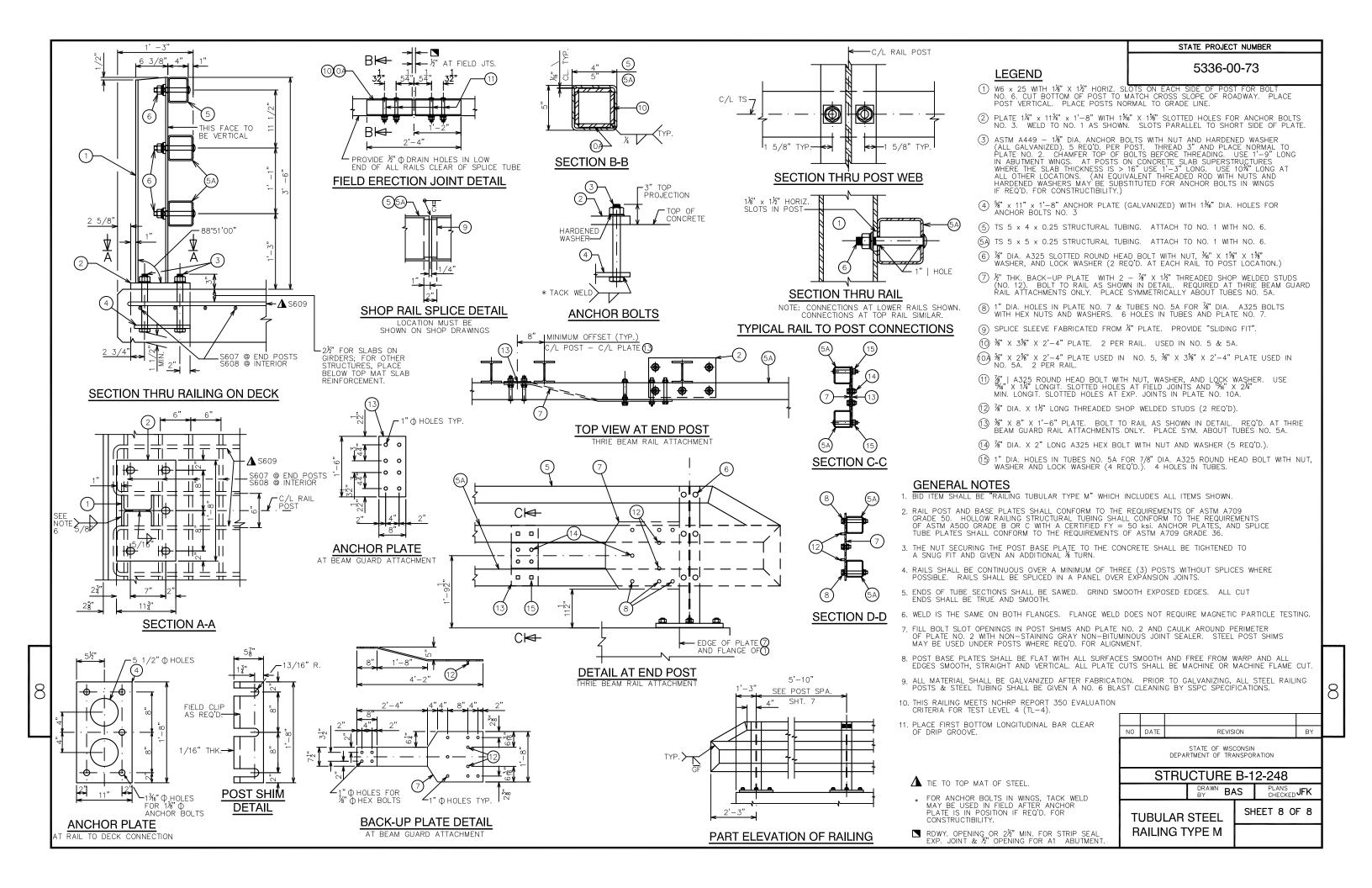


STRUCTURE B-12-248 DRAWN BAS PLANS CHECKED **JFK**

ABUTMENT DETAILS

SHEET 6 OF 8





BYERS ROAD

STATION		AREA (SF)		INCREMENTAL VOL (CY)		CUMULATIVE VOL (CY)		MASS
STATION	FEET	соммон	FILL	соммон	FILL	соммон	FILL*	HAUL
9+50		0.0	0.0					
	15.0			27.2	0.0	27.2	0.0	27.2
9+65		49.0	0.0					
	30.0			90.6	0.0	117.8	0.0	117.8
9+95		81.5	0.0					
				118.0	0.0			

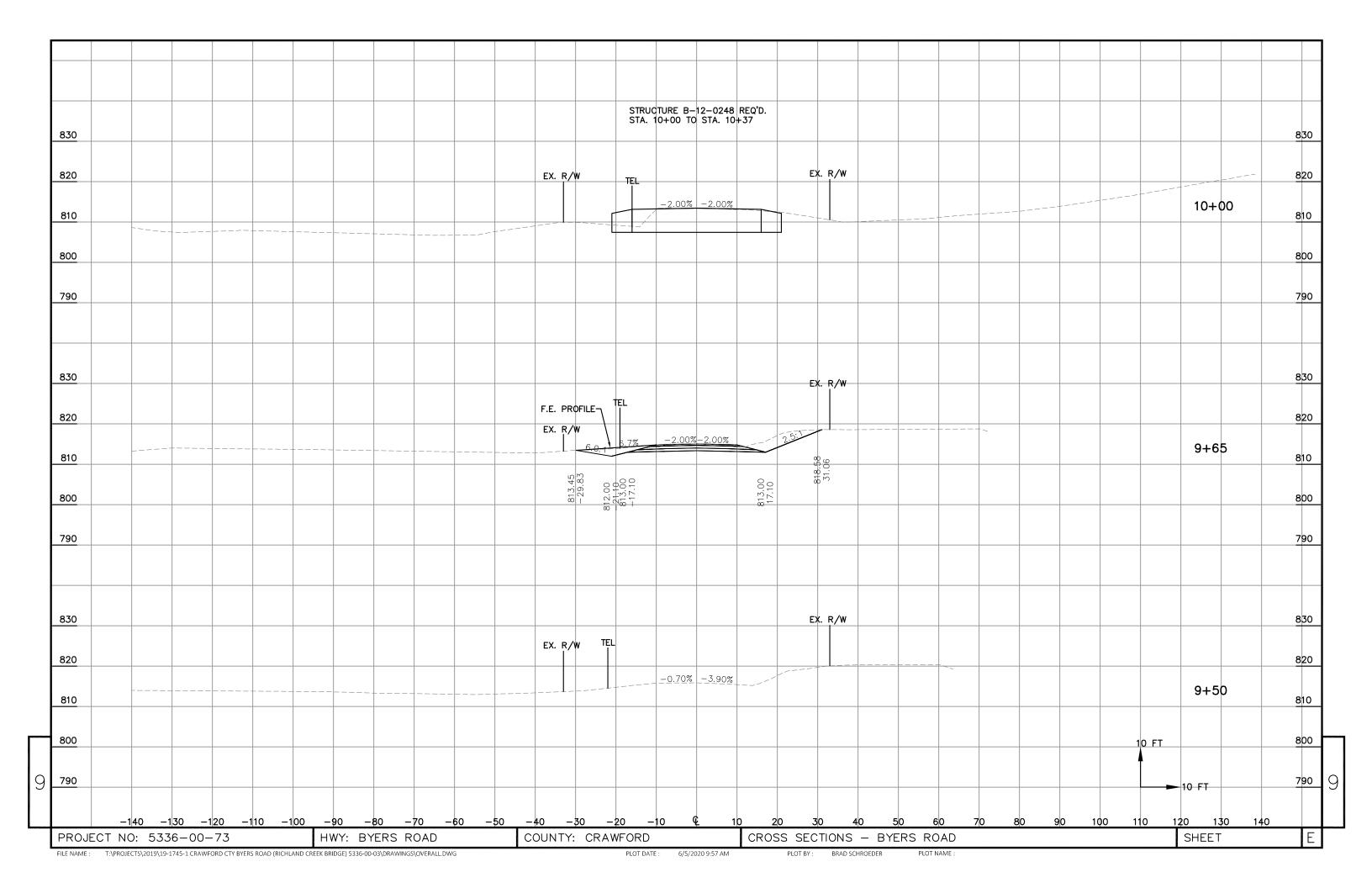
STATION	AREA (SF) INCREMENTAL VOL (CY)		AREA (SF)		CUMULATIVE VOL (CY)		MASS	
STATION	FEET	соммои	FILL	соммои	FILL	соммон	FILL*	HAUL
10+37		0.0	0.0					
	13.0			40.9	0.0	40.9	0.0	40.9
10+50		85.0	0.0					
	37.0			68.5	0.0	109.4	0.0	109.4
10+87		50.0	0.0					
				109.0	0.0			

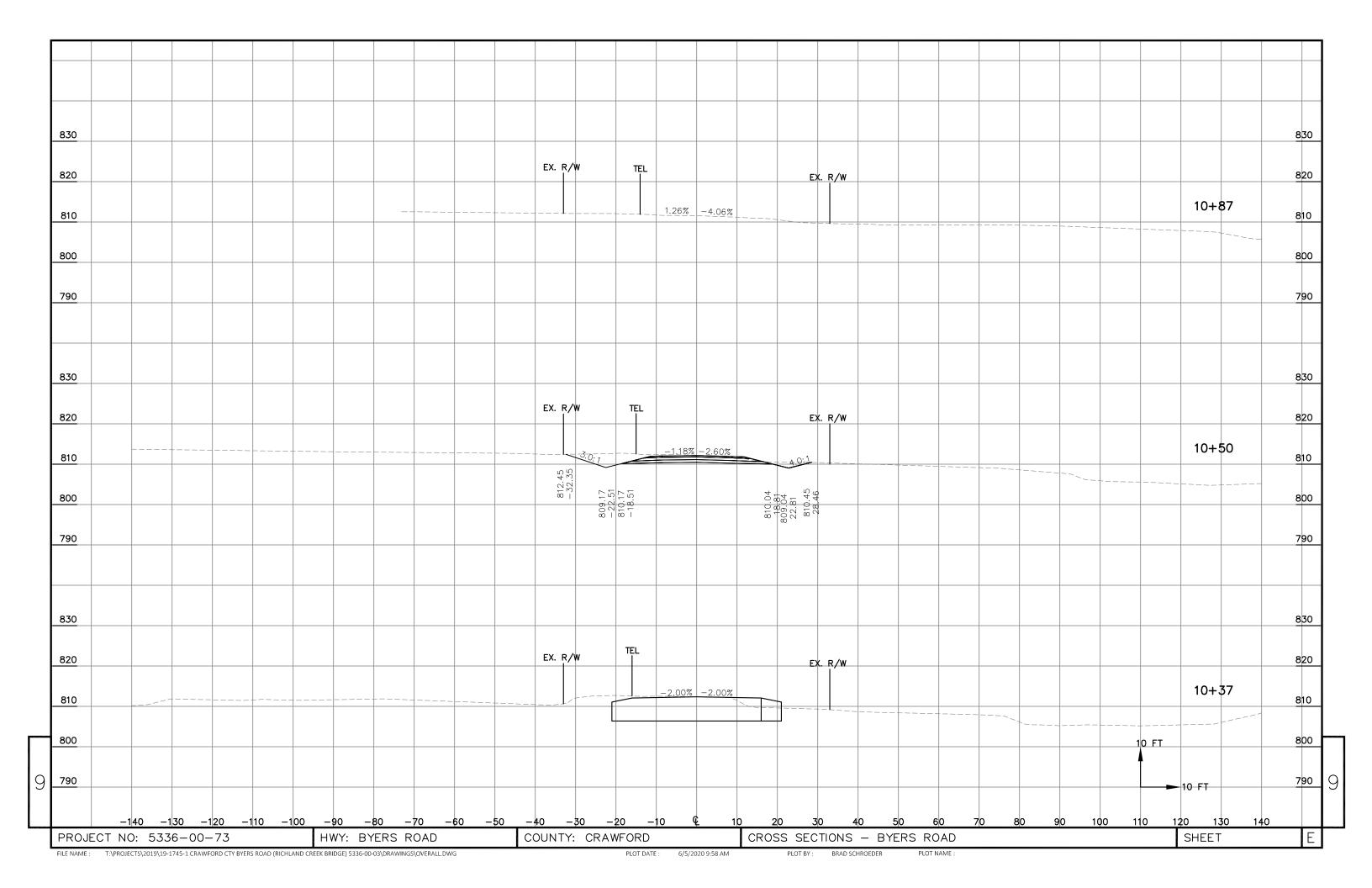
* EXPANDED FILL FACTOR = 1.20

9

9

PROJECT NO: 5336-00-73 HWY: BYERS ROAD COUNTY: CRAWFORD EARTHWORK SHEET E







Wisconsin Department of Transportation

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