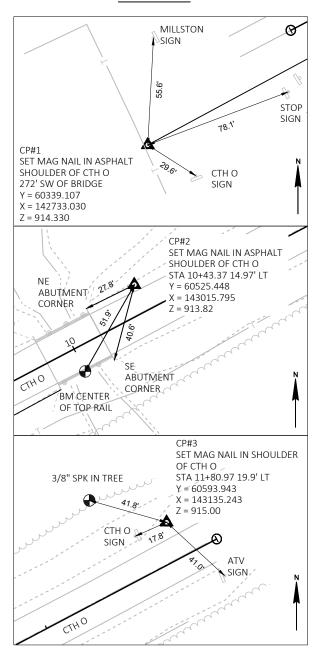


ALIGNMENT TIES



LAYOUT NAME - 020101-gn

GENERAL NOTES

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

WHEN THE QUANTITY OF BASE AGGREGATE OR ASPHALTIC SURFACE IS MEASURED FOR PAYMENT BY THE TON, THE DEPTH OR THICKNESS OF THE LAYER SHOWN ON THE PLANS IS APPROXIMATE AND THE ACTUAL THICKNESS WILL DEPEND ON THE DISTRIBUTION OF THE MATERIAL AS DIRECTED BY THE ENGINEER.

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

THE EXACT LOCATION OF THE EROSION CONTROL DEVICES SHALL BE DETERMINED IN THE FIELD.

SILT FENCE AND TURBIDITY BARRIER IS TO BE PLACED AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER, AND IN PLACE PRIOR TO BRIDGE REMOVAL.

DISTURBED AREAS WITHIN THE RIGHT-OF-WAY, EXCEPT THE AREAS WITHIN THE FINISHED SHOULDER POINTS, SHALL BE SALVAGED TOPSOILED, FERTILIZED, SEEDED AND EMATTED.

A VERTICAL SAWCUT SHALL BE MADE THROUGH EXISTING PAVEMENTS AT REMOVAL LIMITS.

ALL PAVEMENT DIMENSIONS AND STATIONS ARE SHOWN TO THE EDGE OF PAVEMENT UNLESS NOTED OTHERWISE.

4.0" ASPHALTIC SURFACE SHALL BE CONSTRUCTED IN TWO 2.0" LAYERS.

WISDOT MONUMENTS WILL BE SUPPLIED BY THE STATE AND INSTALLED BY THE CONTRACTOR AS DIRECTED BY THE ENGINEER.

RUNOFF COEFFICIENT TABLE

		HYDROLOGIC SOIL GROUP												
		A B						С				D		
	SLOP	E RANGE	(PERCENT)	S	LOPE RANG	GE (PERCENT)	SLC	OPE RANG	GE (PERCENT)	SLOPE RANGE (PERCENT)				
LAND USE:	LAND USE: 0-2 2-6 6 & OVER 0-2 2-6 6 & OVER 0							2-6	6 & OVER	0-2	2-6	6 & OVER		
ROW CROPS	.08	.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					.20 .23 .30 .26 .30 .37			1 1 1		.30 .40				
SIDE SLOPE- TURF						.28 .30 .36 .38								
PAVEMENT:	PAVEMENT:							•						
ASPHALT	ASPHALT .7095													
CONCRETE														
BRICK														
DRIVES, WALKS	DRIVES, WALKS .7585													
ROOFS	ROOFS .7595													
GRAVEL ROADS, SHO	DULDERS					.4060								

TOTAL PROJECT AREA = 0.2 ACRES TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = 0.2 ACRES UTILITY CONTACTS

CENTURYLINK P.O. BOX 256 311 SOUTH COURT STREET SPARTA, WI 54656 TELEPHONE: 608.269.0819 ATTENTION: BRET CLARK EMAIL: BRET.CLARK@CENTURYLINK.COM



WISDOT CONTACT

WISDOT NORTHWEST REGION - EAU CLAIRE OFFICE 718 WEST CLAIREMONT AVENUE EAU CLAIRE, WI 54701 TELEPHONE: 715.225.4159
ATTENTION: MATTHEW THORNSEN EMAIL: MATTHEW.THORNSEN@DOT.WI.GOV

DESIGN CONTACT

10 NORTH BRIDGE STREET CHIPPEWA FALLS, WI 54729 TELEPHONE: 715.720.6291 ATTENTION: TARA KRISTA EMAIL: TKRISTA@SEHINC.COM

COUNTY CONTACT

JACKSON COUNTY HIGHWAY DEPARTMENT 119 HARRISON STREET BLACK RIVER FALLS, WI 54615 TELEPHONE: 715.284.0233 ATTENTION: JAY BOREK

EMAIL: JAY.BOREK@CO.JACKSON.WI.US

TOWN CONTACT TOWN OF MILLSTON PO BOX 507 MILLSTON, WI 54643 TELEPHONE: 715.284.9891 ATTENTION: DAN SMREKAR EMAIL: SMREKAR@CENTURYTEL.NET

WDNR CONTACT

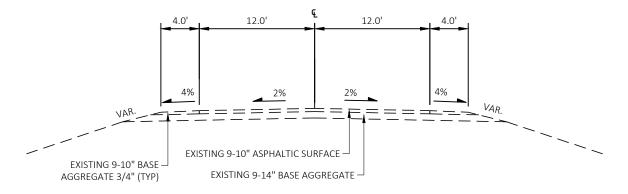
DNR WEST CENTRAL REGION HQ 1300 WEST CLAIREMONT AVENUE EAU CLAIRE, WI 54701 TELEPHONE: 715.934.9014 ATTENTION: LEAH NICOL

EMAIL: LEAH.NICOL@WISCONSIN.GOV

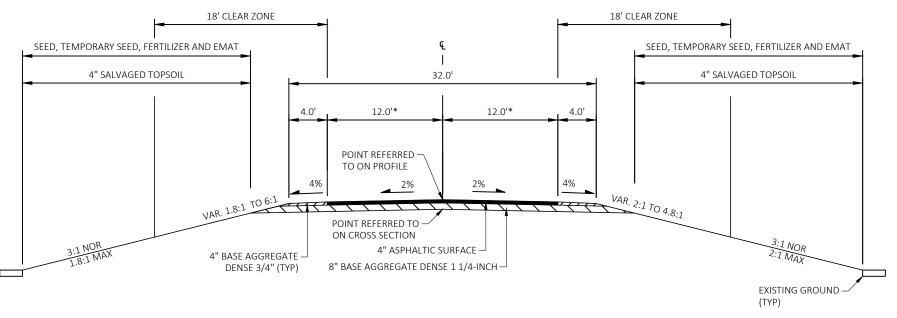
PROJECT NO: 7027-00-70 HWY: CTH O COUNTY: JACKSON **GENERAL NOTES** SHEET \\SEHCF1\PROJECTS\FJ\J\JACKH\153445\5-FINAL-DSGN\CIVIL 3D - CTH O\SHEETSPLAN\020101-GN.DWG PLOT DATE : PLOT BY: JUSTIN P. SHAVLIK PLOT NAME PLOT SCALE : 10/21/2020 12:44 PM ###########

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TYPICAL EXISTING SECTION STA 9+30 TO 9+84 STA 10+16 TO 10+70



TYPICAL FINISHED SECTION STA 9+30 TO 9+77.75 STA 10+22.25 TO 10+70

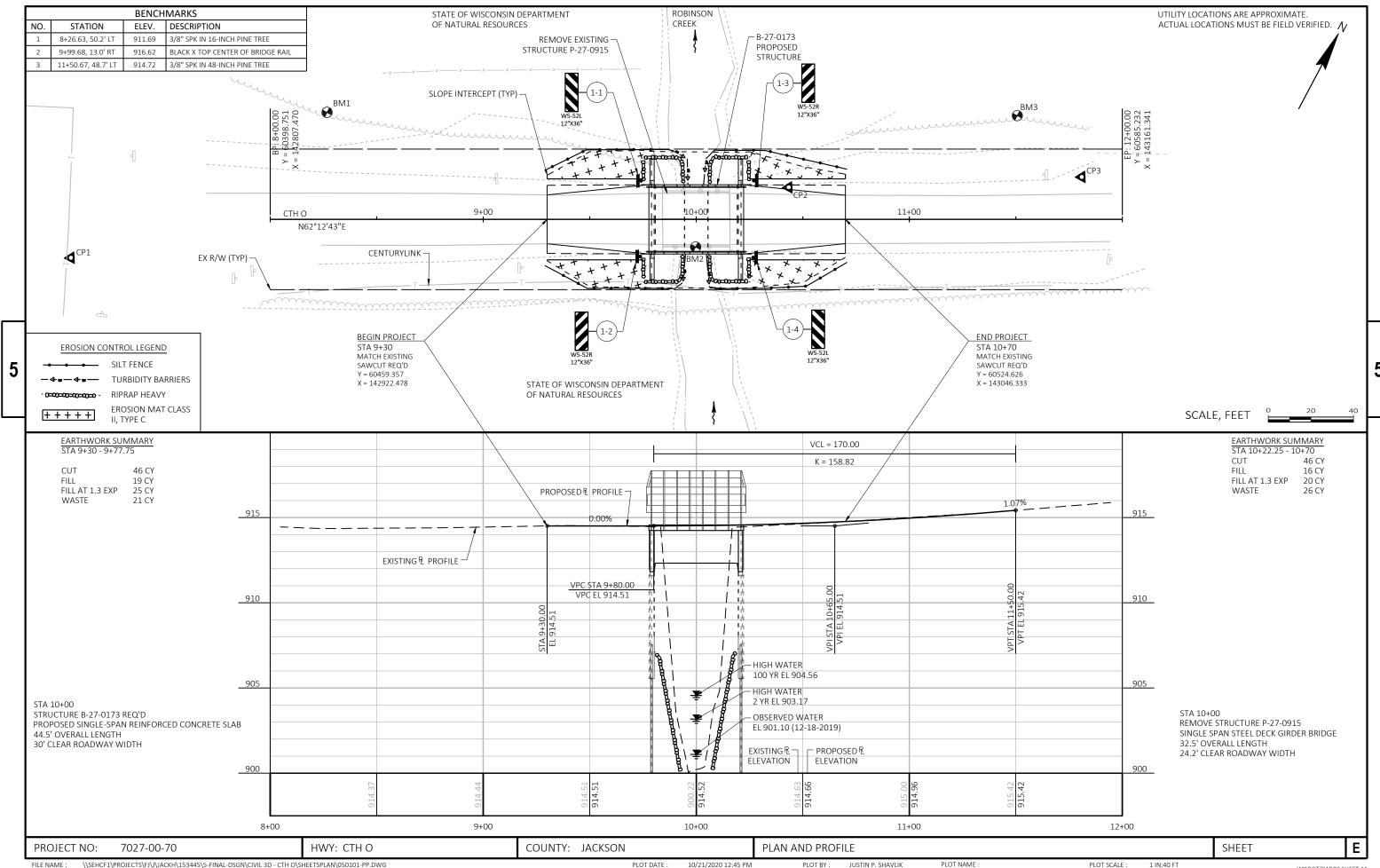
*MATCH EXISTING WIDTH AT PROJECT LIMITS AND TAPER TO BRIDGE WIDTH AT STRUCTURE

					7027-00-70
Line	Item	Item Description	Unit	Total	Qty
0002	201.0105	Clearing	STA	1.000	1.000
0004	201.0205	Grubbing	STA	1.000	1.000
0006	203.0600.S	Removing Old Structure Over Waterway With Minimal Debris (station) 01. 10+00	LS	1.000	1.000
8000	205.0100	Excavation Common	CY	92.000	92.000
0010	206.1000	Excavation for Structures Bridges (structure) 01. B-27-0173	LS	1.000	1.000
0012	208.0100	Borrow	CY	89.000	89.000
0014	210.1500	Backfill Structure Type A	TON	440.000	440.000
0016	213.0100	Finishing Roadway (project) 01. 7027-00-70	EACH	1.000	1.000
0018	305.0110	Base Aggregate Dense 3/4-Inch	TON	13.000	13.000
0020	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	168.000	168.000
0022	455.0605	Tack Coat	GAL	18.000	18.000
0024	465.0105	Asphaltic Surface	TON	66.000	66.000
0024	502.0100	Concrete Masonry Bridges	CY	174.000	174.000
0028	502.3200	Protective Surface Treatment	SY	220.000	220.000
0030	505.0400	Bar Steel Reinforcement HS Structures	LB	3,170.000	3,170.000
0030	505.0600	Bar Steel Reinforcement HS Coated Structures	LB	21,620.000	21,620.000
0032	513.4061	Railing Tubular Type M	LF	94.000	94.000
0034	516.0500	Rubberized Membrane Waterproofing	SY	22.000	22.000
0038	550.1100	Piling Steel HP 10-Inch X 42 Lb	LF	350.000	350.000
0038	606.0300	Riprap Heavy	CY	200.000	200.000
0040	612.0406	Pipe Underdrain Wrapped 6-Inch	LF	160.000	160.000
0044	618.0100	Maintenance And Repair of Haul Roads (project) 01. 7027-00-70	EACH	1.000	1.000
0046	619.1000	Mobilization	EACH	1.000	1.000
0048	624.0100	Water	MGAL	2.000	2.000
0050	625.0500	Salvaged Topsoil	SY	210.000	210.000
0052	628.1504	Silt Fence	LF	260.000	260.000
0054	628.1520	Silt Fence Maintenance	LF	260.000	260.000
0056	628.1905	Mobilizations Erosion Control	EACH	2.000	2.000
0058	628.1910	Mobilizations Emergency Erosion Control	EACH	2.000	2.000
0060	628.2027	Erosion Mat Class II Type C	SY	210.000	210.000
0062	628.6005	Turbidity Barriers	SY	120.000	120.000
0064	629.0210	Fertilizer Type B	CWT	0.200	0.200
0066	630.0120	Seeding Mixture No. 20	LB	6.000	6.000
0068	630.0200	Seeding Temporary	LB	6.000	6.000
0070	630.0500	Seed Water	MGAL	6.000	6.000
0070	634.0612	Posts Wood 4x6-Inch X 12-FT	EACH	4.000	4.000
0072					
0074	637.2230	Signs Type II Reflective F	SF	12.000	12.000

Estimate Of Quantities Page 2

					7027-00-70
Line	Item	Item Description	Unit	Total	Qty
0076	638.2602	Removing Signs Type II	EACH	4.000	4.000
0078	638.3000	Removing Small Sign Supports	EACH	4.000	4.000
0800	642.5001	Field Office Type B	EACH	1.000	1.000
0082	643.0420	Traffic Control Barricades Type III	DAY	1,083.000	1,083.000
0084	643.0705	Traffic Control Warning Lights Type A	DAY	1,938.000	1,938.000
0086	643.0900	Traffic Control Signs	DAY	1,026.000	1,026.000
8800	643.5000	Traffic Control	EACH	1.000	1.000
0090	645.0111	Geotextile Type DF Schedule A	SY	88.000	88.000
0092	645.0120	Geotextile Type HR	SY	400.000	400.000
0094	646.1020	Marking Line Epoxy 4-Inch	LF	560.000	560.000
0096	650.4500	Construction Staking Subgrade	LF	96.000	96.000
0098	650.5000	Construction Staking Base	LF	96.000	96.000
0100	650.6500	Construction Staking Structure Layout (structure) 01. B-27-0173	LS	1.000	1.000
0102	650.9910	Construction Staking Supplemental Control (project) 01. 7027-00-70	LS	1.000	1.000
0104	650.9920	Construction Staking Slope Stakes	LF	96.000	96.000
0106	690.0150	Sawing Asphalt	LF	46.000	46.000
0108	715.0502	Incentive Strength Concrete Structures	DOL	1,044.000	1,044.000

PRODUCTION 1/2	CLEARING & GRUBBING 201.0105 201.0205 CLEARING GRUBBING STA STATION LOCATION STA STA CTH O 9+00 - 10+00 LT 1 ITEM TOTALS 1	SALVAGED TOPSOIL AND SEEDING 630.0120 630.0500 SEEDING S	TRAFFIC CONTROL STATION 643.0420 BARRICADES LIGHTS TYPE III EACH DAY 643.0900 LIGHTS 643.0900 SIGNS CALENDAR EACH DAY 643.0900 DAYS STATION EACH DAY EACH DAY DAYS CTH O 9+30 - 10+70 19 1083 34 1938 18 1026 57 ITEM TOTALS 1083 1938 1026
SAS AGORE CATE DENSE MOSILIZATIONS ENGINE CONTROL SUBCRACE	205.0100	628.2027 EROSION MAT 628.6005 URBAN 628.6005 G28.1504 SILT FENCE CLASS I TURBIDITY SILT FENCE MAINTENANCE TYPE C BARRIERS SY SY SY SY SY SY SY	646.1020 STATION LOCATION LF REMARKS
ASPHALTIC PAVEMENT ITEMS	305.0110 305.0120 624.0100 3/4-INCH 1 1/4-INCH WATER STATION LOCATION TON TON MGAL CTH O 9+30 - 9+77.75 LT & RT 6 84 1 10+22.25 - 10+70 LT & RT 7 84 1	628.1910 628.1905 EMERGENCY EROSION EROSION CONTROL CONTROL STATION EACH EACH CTH O 9+30-10+70 2 2	CTHO 9+30 - 9+77.75 LT & RT
ITEM TOTALS 12 4 4 4 NOTE: ALL ITEMS AND QUANTITIES ON THIS SHEET ARE FOR	455.0605 465.0105 TACK ASPHALTIC COAT SURFACE STATION LOCATION GAL TON CTH O 9+30 - 9+77.75 LT & RT 9 33 10+22.25 - 10+70 LT & RT 9 33 ITEM TOTALS 18 66	SIGN SIGN SIGN TYPE II REFLECTIVE F 12-FT TYPE II SUPPORTS SIGN SIGN SIGN TYPE II REFLECTIVE F 12-FT TYPE II SUPPORTS SUPPORTS SIGN	690.0150 STATION LOCATION LF CTH O 9+30 LT & RT 23 10+70 LT & RT 23 ITEM TOTAL 46



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	BARRICADES AND SIGNS FOR VARIOUS CLOSURES
15C06-09	SIGNING & MARKING FOR TWO LANE BRIDGES
15C11-07B	CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS
15D38-02A	TEMPORARY TRAFFIC CONTROL SIGN MOUNTING
15D38-02B	ATTACHMENT OF SLGNS TO POSTS

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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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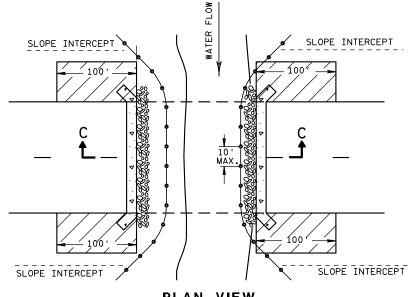
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GENERAL NOTES

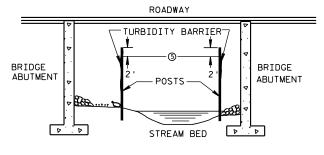
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

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 WATER ELEVATIONS.
- 2 SANDBAGS 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 FT., 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 THE UPSTREAM END.
- (5) ESTIMATED HIGH WATER ELEVATION DURING CONSTRUCTION PERIOD. MIMIMUM BARRIER HEIGHT SHALL BE 2'GREATER THAN EITHER THE 02 ELEVATION OR THE ESTIMATED HIGH WATER ELEVATION DURING CONSTRUCTION, WICHEVER IS GREATER.
- (6) FLOAT ALTERNATIVE WILL ONLY BE ALLOWED WITH WRITTEN APPROVAL OF THE ENGINEER, AND IS MEANT FOR LOCATIONS WHERE BED ROCK 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

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

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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

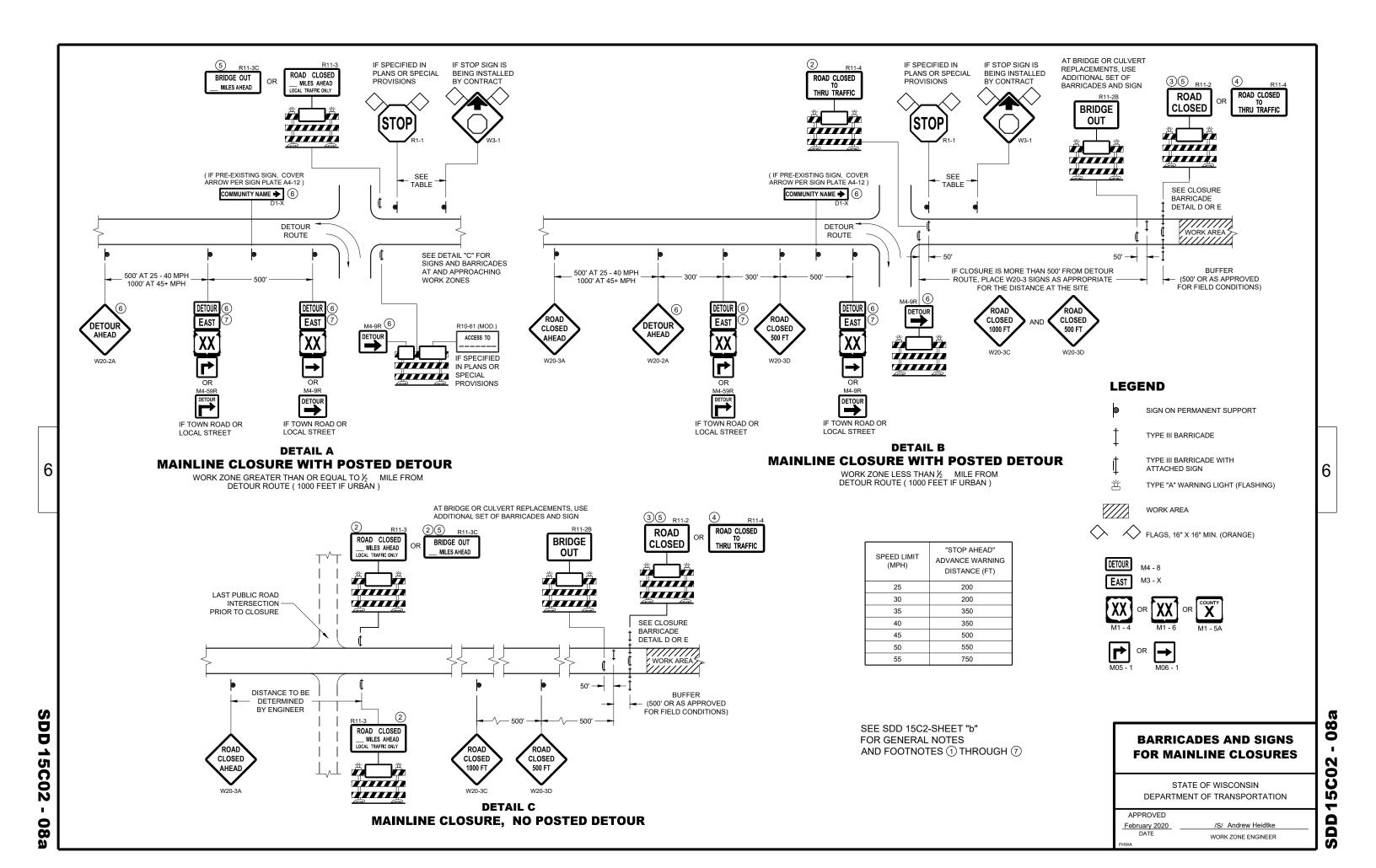
(FOR ATTACHMENT TO PRECAST STRUCTURES)

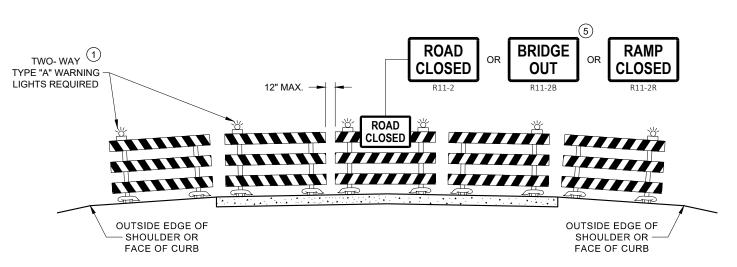
NAME PLATE (STRUCTURES)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

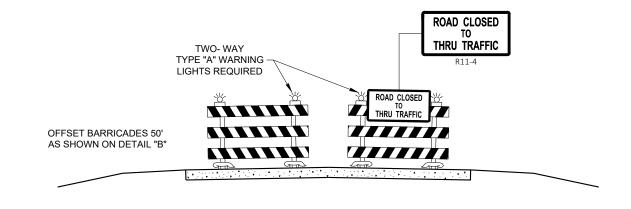
APPROVED

 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

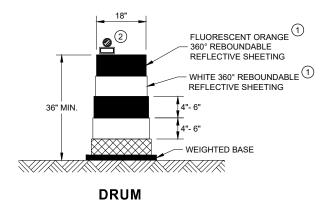
/S/ Andrew Heidtke
WORK ZONE ENGINEER

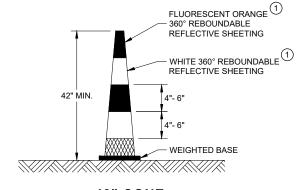
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GENERAL NOTES

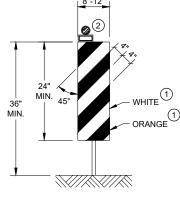
- (1) REFLECTIVE SHEETING SHALL FOLLOW THE REQUIREMENTS IN THE APPROVED PRODUCTS LISTING FOR SIGN SHEETING.
- (2) LOCATION OF WARNING LIGHTS WHEN SHOWN ON THE PLAN.





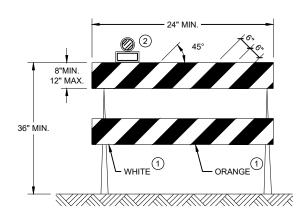
42" CONE DO NOT USE IN TAPERS

½ SPACING OF DRUMS



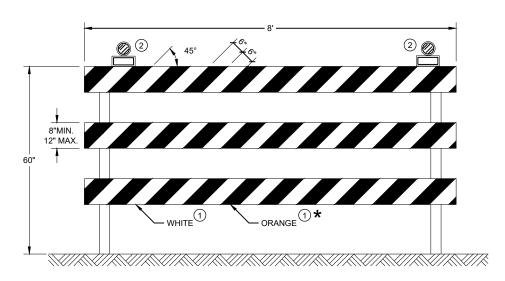
VERTICAL PANEL

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

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION 07

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SDD

APPROVED	
June 2017	/S/ Andrew Heidtke
DATE	WORK ZONE ENGINEER
FHWA	



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	MENTS	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 15 D ∞

6

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6

- 11/2" DIAMETER HOLES

Ω

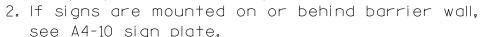
Ω

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

> /S/ Andrew Heidtke WORK ZONE ENGINEER

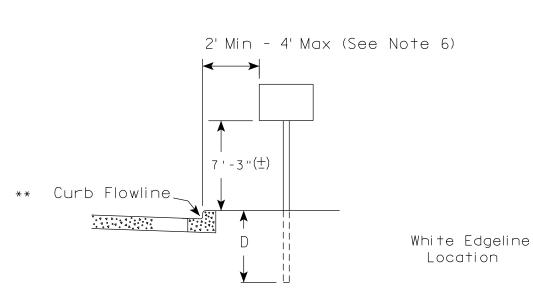
APPROVED

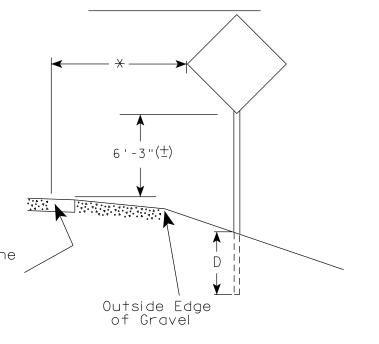
June 2017
DATE



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 \$\$

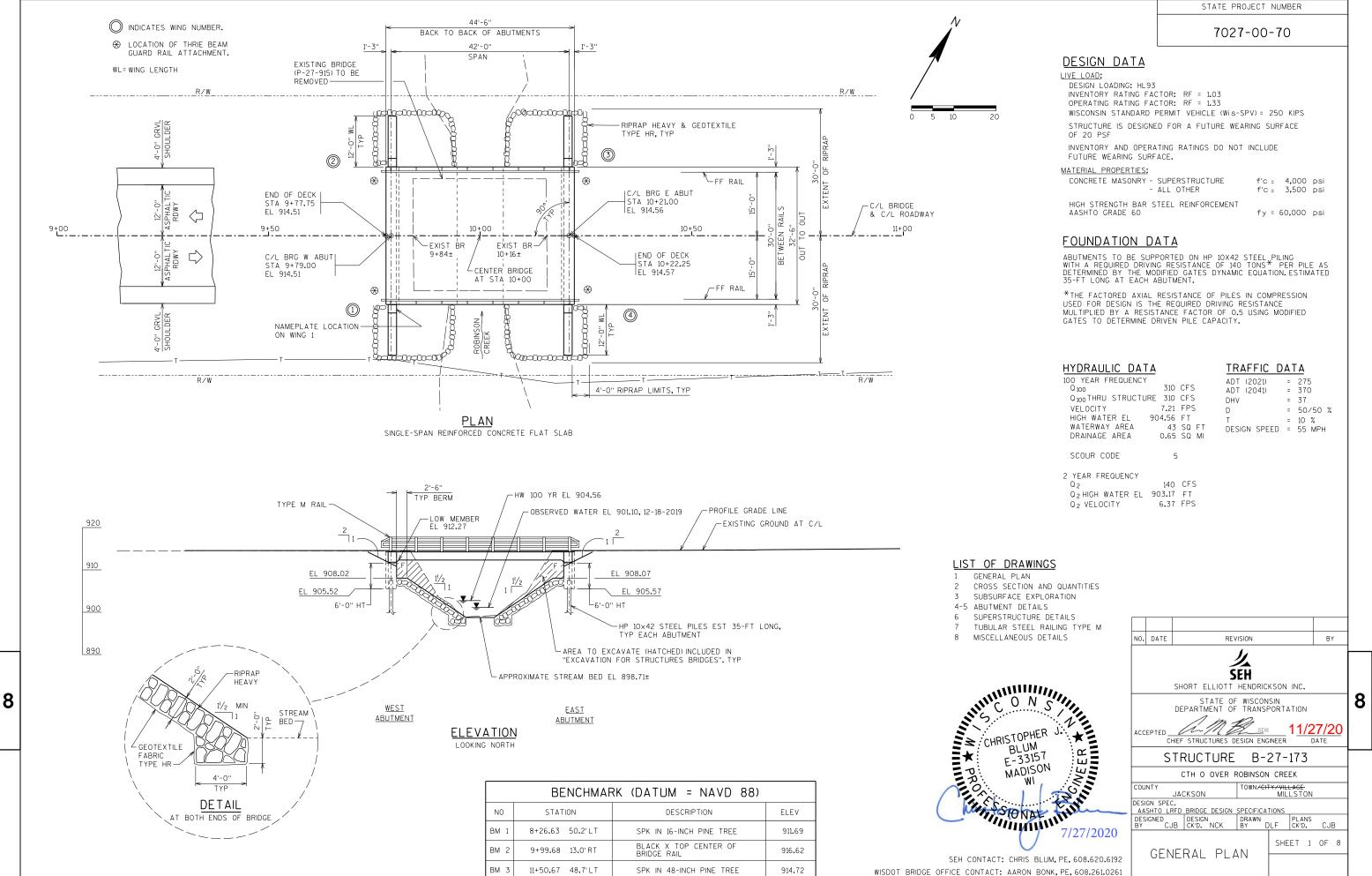
SHEET NO:

| | |









STATE PROJECT NUMBER C/L BRIDGE/REF LINE -7027-00-70 32'-6" OUT TO OUT **NORTH** <u>SOUTH</u> SIDE SIDE RAILING TUBULAR TYPE M, TYP — C∕L ROADWAY -POINT ON PROFILE GRADE 2.0 % 1'-11" MIN SLAB--REINFORCED CONCRETE 3/4" V-GROOVE, TYP. EXTEND TO 6" FROM FRONT FACE OF ABUT-CROSS SECTION THRU BRIDGE

(LOOKING FAST)

STA 10+00 REMOVE EXISTING BRIDGE (P-27-915)
A SINGLE-SPAN STEEL DECK GIRDER BRIDGE 32.5' OVERALL LENGTH × 26.5' OVERALL WIDTH. PROFILE GRADE LINE

FINISHED CL PROFILE

-EXISTING CL PROFILE

C/L BRG W ABUT STA 9+79.00, EL 914.51

BRG E ABUT 10+21.00, EL

VCL = 170.00

VPISTA 10+65. VPIEL 914.51

0.00%

1.07%

TOTAL ESTIMATED QUANTITIES - B-27-173

		TOTAL ESTIMATED QUANTITIES - B-	<u> </u>	<u> </u>			
	BID ITEM NUMBER	BID ITEMS	UNIT	WEST ABUT	EAST ABUT	SUPER	TOTALS
	203.0600.S	REMOVING OLD STRUCTURE OVER WATERWAY WITH MINIMAL DEBRIS STATION 10+00	LS	-	-	-	1
	206.1000	EXCAVATION FOR STRUCTURES BRIDGES B-27-173	LS	-	-	-	1
1	210.1500	BACKFILL STRUCTURE TYPE A	TON	220	220	-	440
	502.0100	CONCRETE MASONRY BRIDGES	CY	33	33	108	174
3	502.3200	PROTECTIVE SURFACE TREATMENT	SY	-	-	220	220
	505.0400	BAR STEEL REINFORCEMENT HS STRUCTURES	LB	1,585	1,585	-	3170
	505.0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	LB	1,055	1,055	19,510	21,620
	513.4061	RAILING TUBULAR TYPE M	LF	-	-	94	94
4	516.0500	RUBBERIZED MEMBRANE WATERPROOFING	SY	11	11	-	22
-	550.1100	PILING STEEL HP 10-INCH X 42 LB	LF	175	175	-	350
	606.0300	RIPRAP HEAVY	CY	100	100	-	200
2	612.0406	PIPE UNDERDRAIN WRAPPED 6-INCH	LF	80	80	-	160
	645.0111	GEOTEXTILE TYPE DF SCHEDULE A	SY	44	44	-	88
	645.0120	GEOTEXTILE TYPE HR	SY	200	200	-	400
		NON-BID ITEMS					
		FILLER	SIZE				1/2 & 3/4
		NAMEPLATE	EACH	1			1

- (1) A FACTOR OF 2.0 WAS USED TO CONVERT CU YDS TO TONS.
- (2) INCLUDES RODENT SHIELD FOR PIPE UNDERDRAIN PER SDD 8F6-4.
- (3) FURNISH AND APPLY A PROTECTIVE SURFACE TREATMENT TO THE ENTIRE TOP OF THE BRIDGE DECK, INCLUDING THE SLAB EDGE AND 1'-0" UNDER SLAB, THE TOP AND EXTERIOR EXPOSED FACE OF WINGS, AND THE END 1'-0" OF THE FRONT FACE OF ABUTMENT.
- (4) INCLUDES QUANTITY ON BACKFACE OF WINGS.

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

FOR EXISTING STRUCTURE SEE PROFILE GRADE LINE THIS SHEET.

REFER TO ROADWAY DRAWINGS FOR EXISTING UTILITY LOCATIONS.

BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2" 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 3/4" UNLESS OTHERWISE NOTED.

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

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

SEAL ALL EXPOSED HORIZONTAL AND VERTICAL SURFACES OF $\frac{1}{2}$ " FILLER WITH NON-STAINING GRAY NON-ASPHALTIC JOINT SEALER (1" DEEP & HOLD $\frac{1}{8}$ " BELOW SURFACE OF CONCRETE).

THE UPPER LIMITS OF "EXCAVATION FOR STRUCTURES BRIDGES B-27-173" SHALL BE THE EXISTING GROUNDLINE.

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

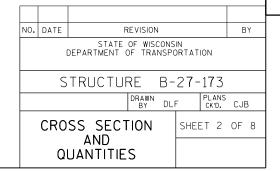
THE QUANTITY FOR BACKFILL STRUCTURE TYPE A IS CALCULATED BASED ON THE BACKFILL STRUCTURE LIMITS DETAILS SHOWN ON THE MISCELLANEOUS DETAILS SHEET.

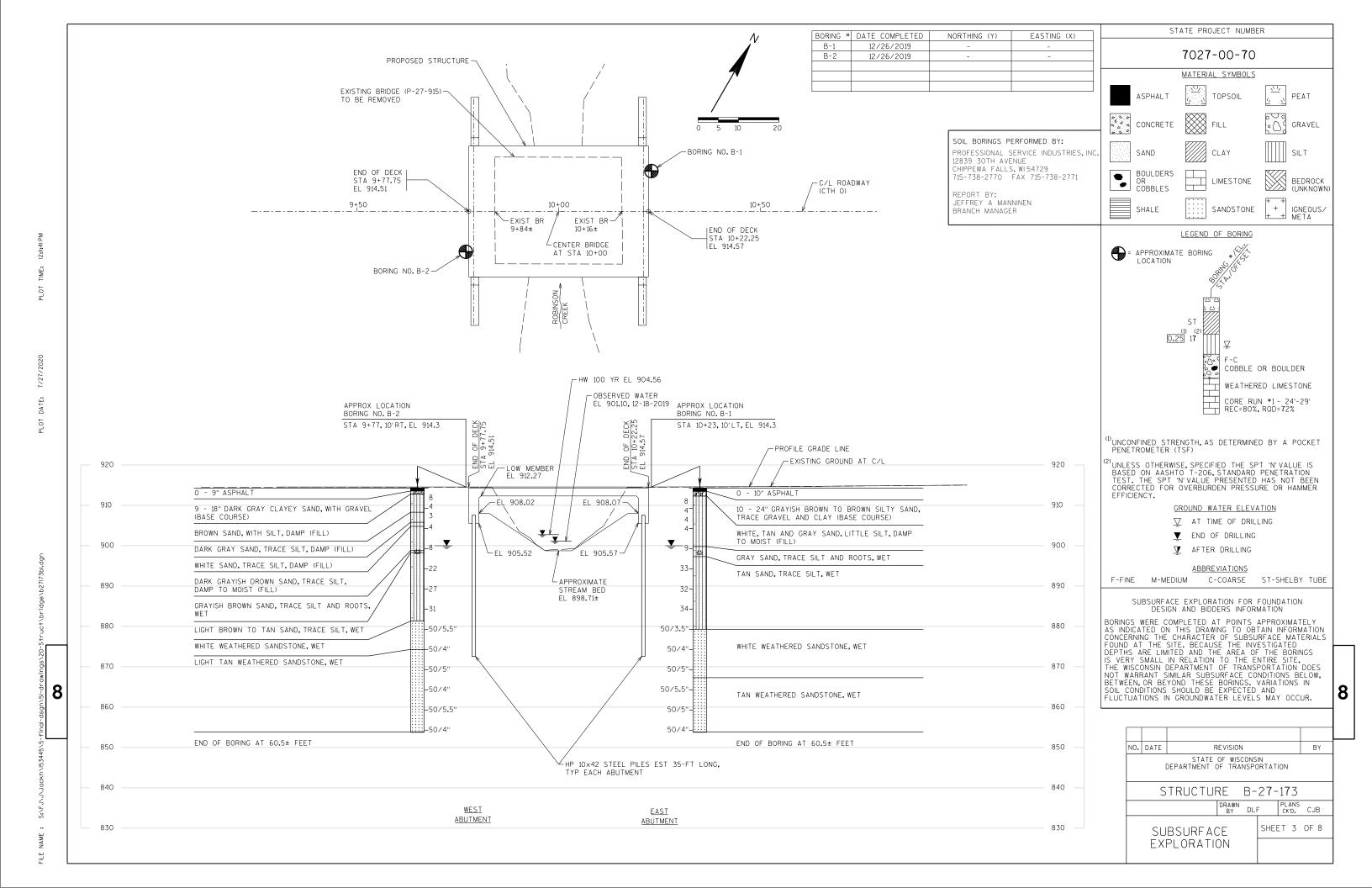
BACKFILL STRUCTURE BEYOND BACKFILL PAY LIMITS SHALL BE INCIDENTAL TO EXCAVATION FOR STRUCTURES. LIMITS OF EXCAVATION SHALL BE DETERMINED BY THE CONTRACTOR.

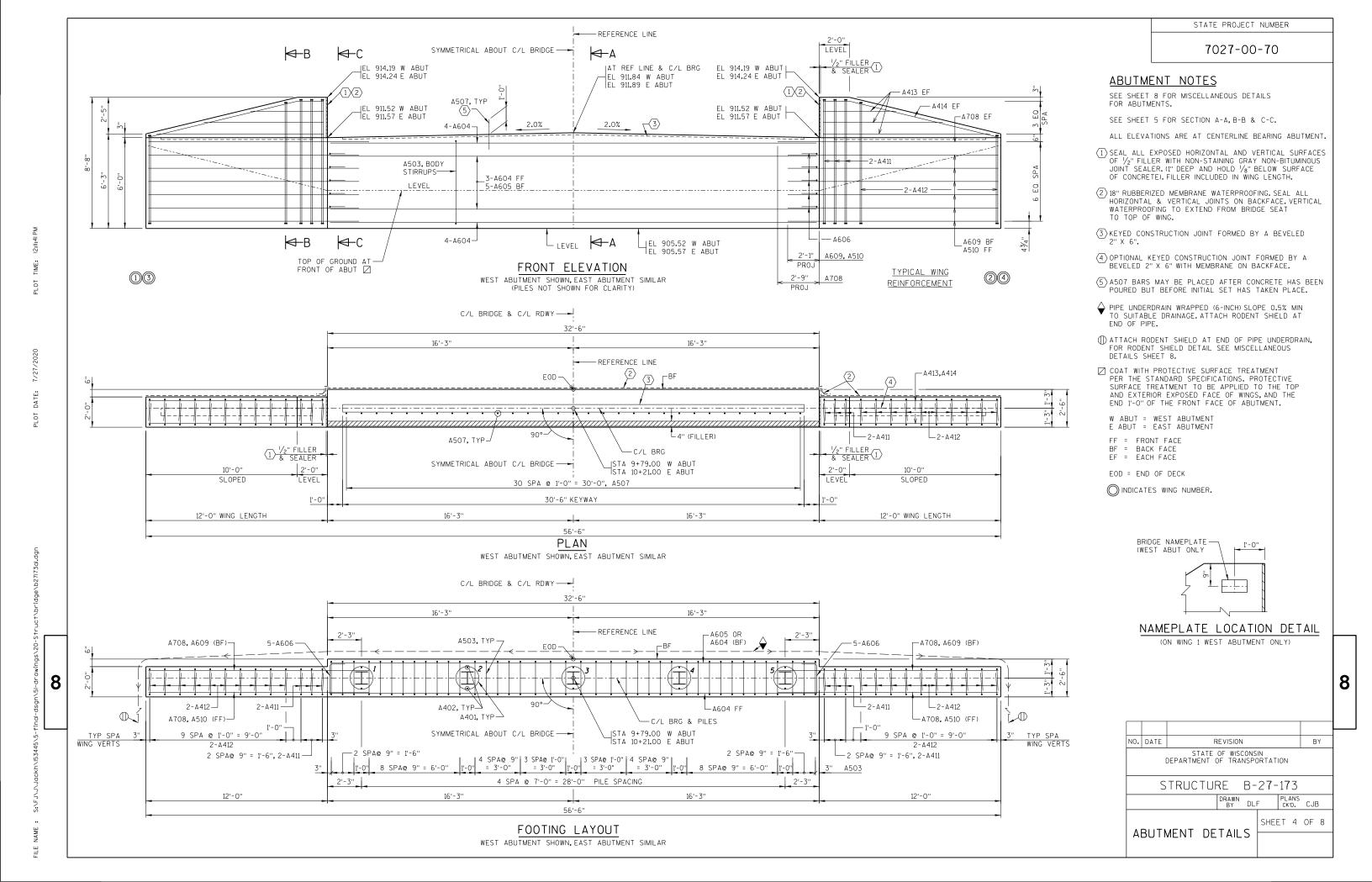
AT THE BACKFACE OF ABUTMENTS ALL VOLUME WHICH CANNOT BE PLACED BEFORE ABUTMENT CONSTRUCTION AND IS NOT OCCUPIED BY THE NEW STRUCTURE SHALL BE BACKFILLED WITH STRUCTURE BACKFILL.

JOINT FILLER SHALL CONFORM TO THE REQUIREMENTS OF AASHTO DESIGNATION M153 TYPE 1, 2, OR 3 OR AASHTO DESIGNATION M213.

APPLY A PROTECTIVE SURFACE TREATMENT PER THE STANDARD SPECIFICATIONS AND THE SUPERSTRUCTURE DETAILS SHEET.

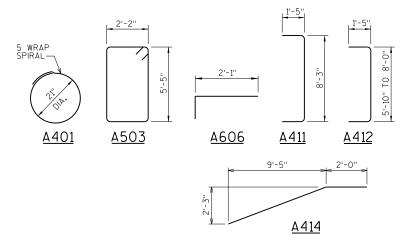






- ▲ LENGTH SHOWN IS AN AVERAGE LENGTH AND SHOULD ONLY BE USED FOR BAR WEIGHT CALCULATIONS SEE BAR SERIES TABLE AND BENDING DETAILS FOR ACTUAL LENGTHS.
- * NO. REQ'D. IS FOR 2 ABUTMENTS. DIVIDE BY 2 FOR EACH ABUTMENT.

BILL OF BARS BOTH ABUTMENTS									
BAR MARK	COAT	NO. * REQ'D.	LENGTH (FT-IN)	BAR SERIES	SUN	LOCATION			
A401		10	28 - 0		Х	BODY AT PILES			
A402		20	2 - 3			BODY AT PILES			
A503		80	15 - 9		Х	BODY STIRRUPS			
A604		22	32 - 2			BODY HORIZ			
A605		10	32 - 2			BODY HORIZ BF			
A606		20	3 - 0		Х	BODY ENDS			
A507	Х	62	2 - 0			BODY DOWELS			
A708	Х	8	14 - 9			WING HORIZ TOP			
A609	Х	24	14 - 1			WING HORIZ BF			
A510	Х	24	14 - 1			WING HORIZ FF			
A411	Х	24	10 - 11		Х	WING VERT			
A412	Х	80	9 - 7	Δ	Х	WING VERT			
A413	Х	24	8 - 0	Δ		WING HORIZ EF			
Δ414	Х	8	11 - 8		Х	WING HORIZ EF TOP			



BAR SERIES TABLE BOTH ABUTMEN								
BAR MARK	NO. REQ'D.	LENGT	Н	SUN	LOCATION			
A412	8 SERIES OF 10	8'-6" TO	10'-8"	Х	WINGS			
A413	8 SERIES OF 3	5'-0" TO	11'-0"		WINGS			

BUNDLE AND TAG EACH SERIES SEPARATELY

NOTES

SEE SHEET 8 FOR MISCELLANEOUS DETAILS

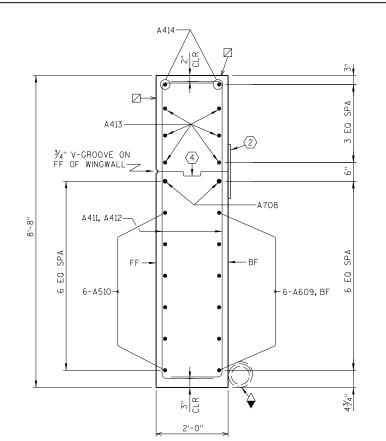
SEE ABUTMENT NOTES ON SHEET 4 ($\bigcirc \diamondsuit$ \square).

W ABUT = WEST ABUTMENT E ABUT = EAST ABUTMENT

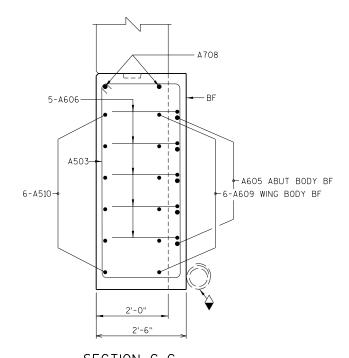
FF = FRONT FACE BF = BACK FACE EF = EACH FACE

NO. DATE REVISION BY STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURE B-27-173 PLANS CK'D. CJB SHEET 5 OF 8 ABUTMENT DETAILS

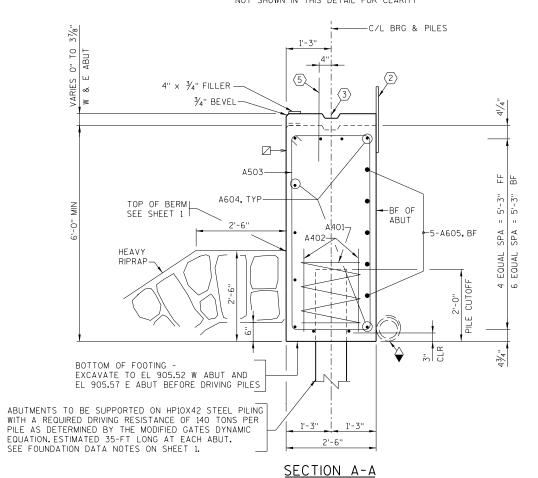
8



SECTION B-B TYPICAL SECTION THRU WING



SECTION C-C SEE SECTION A-A FOR ABUT BODY HORIZ BARS A604 NOT SHOWN IN THIS DETAIL FOR CLARITY



TYPICAL SECTION THRU BODY

ALL ABUT BODY HORIZ BARS TO BE A604 UNLESS OTHERWISE SHOWN OR NOTED

8

NORTH EDGE OF DECK

SOUTH EDGE OF DECK

C/L

914.19

914.51

914.19

914.19

914.51

914.19

914.19

914.51

914.19

914.19

914.51

914.19

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914.23

914.24

914.56

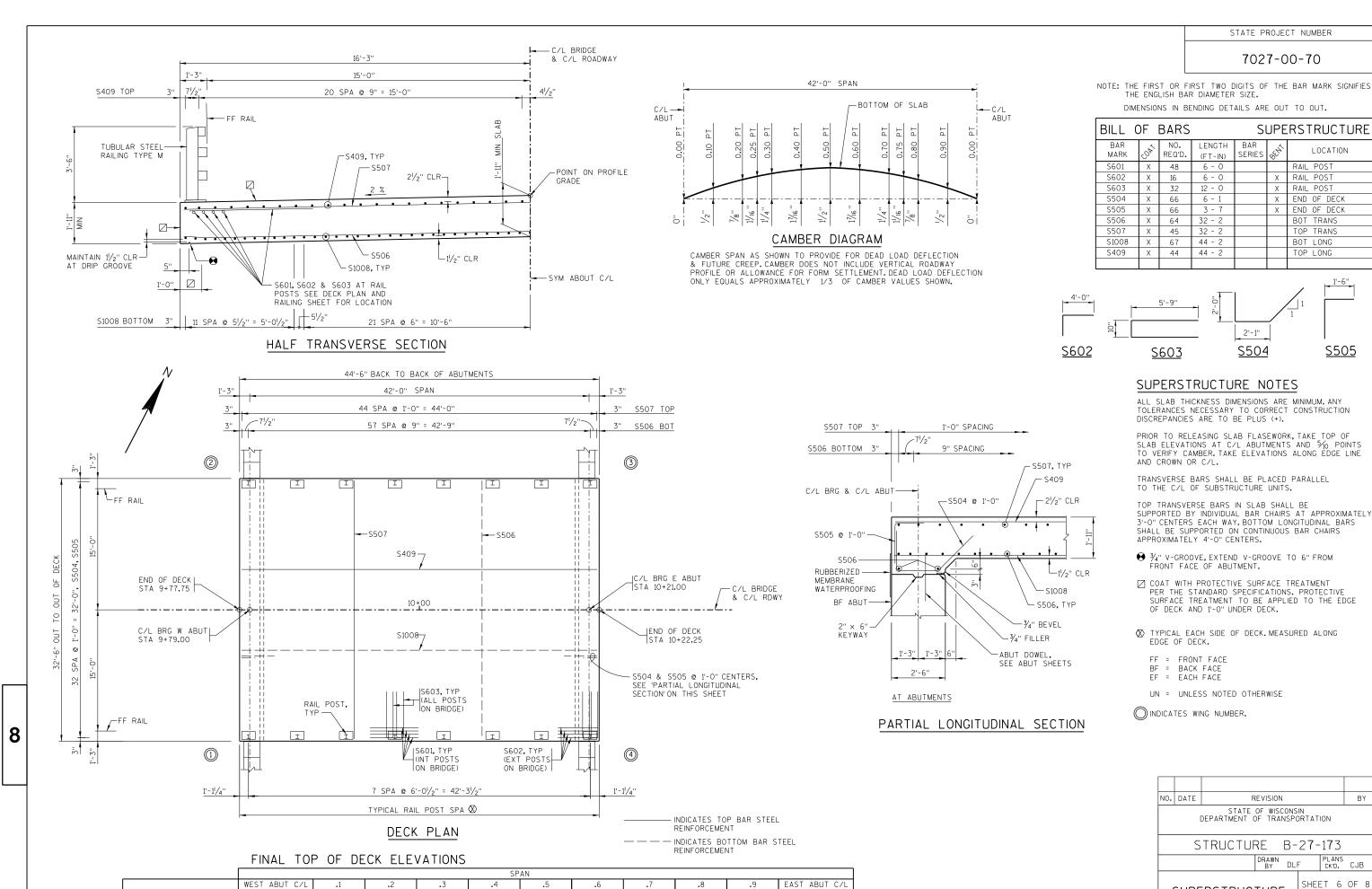
914.24



BY

SUPERSTRUCTURE

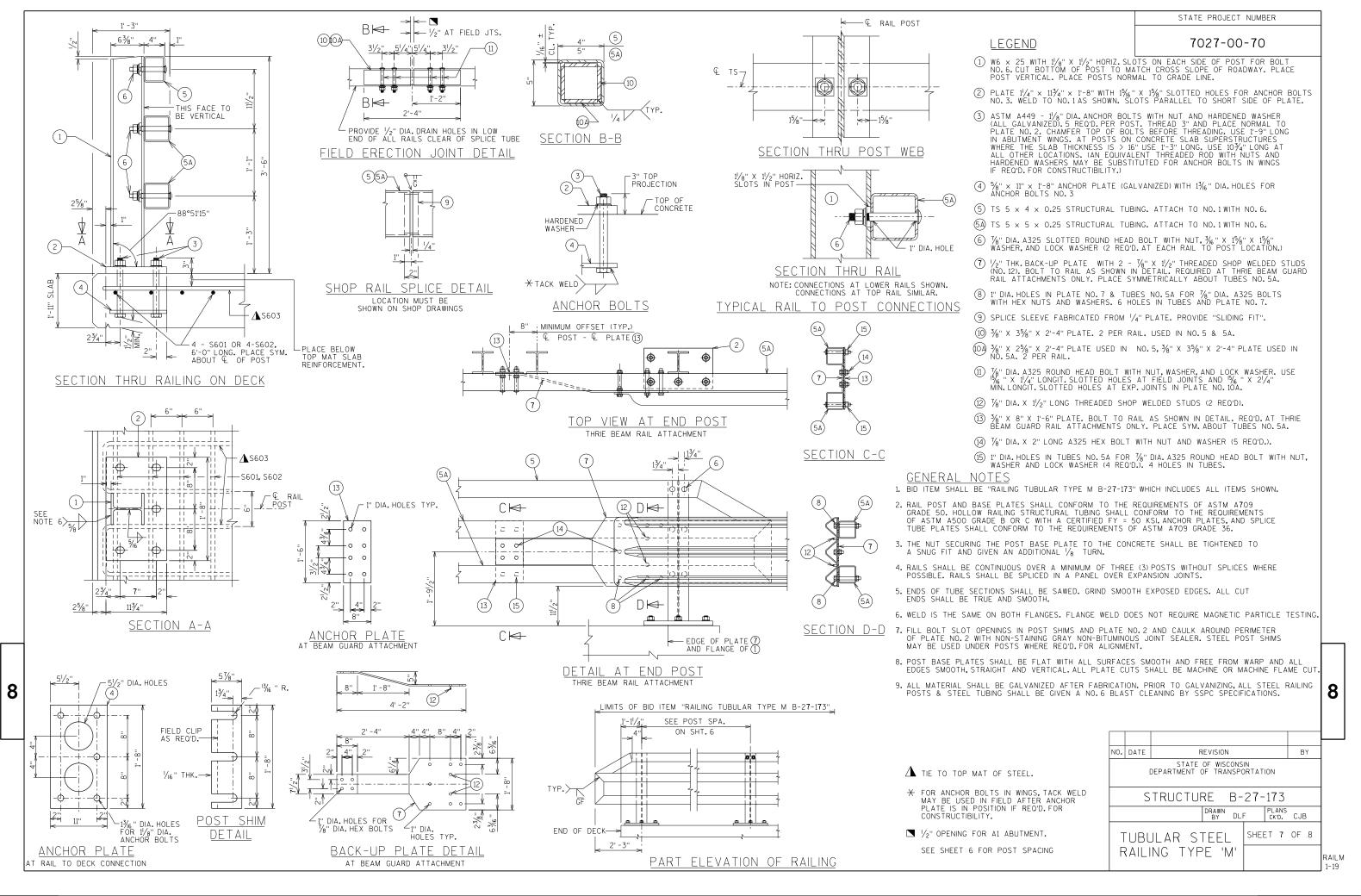
DETAILS

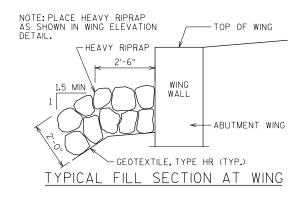


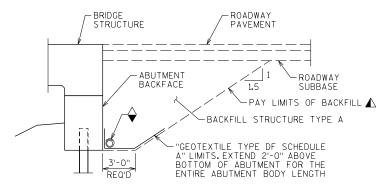






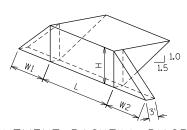






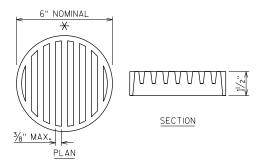
TYPICAL SECTION THRU ABUTMENT

- ⚠ BACKFILL PAY LIMITS. BACKFILL BEYOND BACKFILL PAY LIMITS SHALL BE INCIDENTAL TO EXCAVATION FOR STRUCTURES. LIMITS OF EXCAVATION SHALL BE DETERMINED BY THE CONTRACTOR.
- PIPE UNDERDRAIN WRAPPED (6 INCH). SLOPE 0.5% MIN. TO SUITABLE DRAINAGE. ATTACH RODENT SHIELD AT ENDS OF PIPE



ABUTMENT BACKFILL DIAGRAM

FOR WINGS PARALLEL TO ABUTMENT L = OUT TO OUT OF ABUTMENT BODY (FT) H = AVERAGE ABUTMENT FILL HEIGHT (FT) W1 = WING 1 LENGTH (FT) W2 = WING 2 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)(0.5)(W1+W2)(H) V_{CY} = V_{CF} (EF)/27 V_{TON} = V_{CY} (2.0)



RODENT SHIELD DETAIL

 $\stackrel{\textstyle \star}{\rightarrow}$ dimensions are approximate the grate is sized to fit into a pipe coupling orient so slots are vertical.

THE RODENT SHIELD, PIPE COUPLING AND SCREWS SHALL BE CONSIDERED INCIDENTAL TO THE BID ITEM "PIPE UNDERDRAIN WRAPPED 6-INCH".

THE RODENT SHIELD SHALL BE A PVC GRATE SIMILAR TO THIS DETAIL. THE GRATE IS COMMERCIALLY AVAILABLE AS A FLOOR STRAINER. A PIPE COUPLING IS REQUIRED FOR THE ATTACHMENT OF THIS SHIELD TO THE EXPOSED END OF THE PIPE UNDERDRAIN. THE SHIELD SHALL BE FASTENED TO THE PIPE COUPLING WITH TWO OR MORE NO. 10 X 1-INCH STAINLESS STEEL SHEET METAL SCREWS.

ΝΟ.	DATE	F	В	Υ					
	STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION								
	STRUCTURE B-27-173								
	DRAWN PLANS BY DLF CK'D.								
	MIS	SHE	ET 8	OF	8				
	DETAILS								

8

	стно										
AF			AREA (SF) Incre		emental Vol (CY) (Unadjusted)						
Station	Distance	Cut	Fill	Cut Note 2.6	Unusable Pavement Material	Fill	Cut 1.00 Note 2	Unusable Material	Available Material 1.00 Note 3	Expanded Fill 1.30 Note 4	Mass Ordinate
9+30	0.00	34.5	0.0	0.0	0.0	0.0	note z	note 5	note 3	1 1016 4	n
9+50	20.00	31.4	8.6	24.4	14.8	3.2	24	15	10	4	5
9+61	11 25	28.5	27.0	12.5	8.3	7.4	37	23	14	14	Ō
9+78	16.50	0.0	85.2	8.7	12.2	34.3	46	35	10	58	-4 8
9+78	0.25	0.0	0.0	0.0	0.0	0.4	46	35	10	59	-4 9
10+22	44.00	0.0	0.0	0.0	0.0	0.0	46	35	10	59	-4 9
10+22	0.25	0.0	77.7	0.0	0.2	0.4	46	36	10	59	-49
10+39	16 50	32.8	26.8	10.0	12.2	31 9	56	48	8	1 01	-93
10+50	11 25	30.8	3.1	13.3	8.3	6.2	69	56	13	109	-96
10+70	20.00	32.0	0.0	23.2	14.8	1.1	92	71	21	110	- 8 9

Notes:

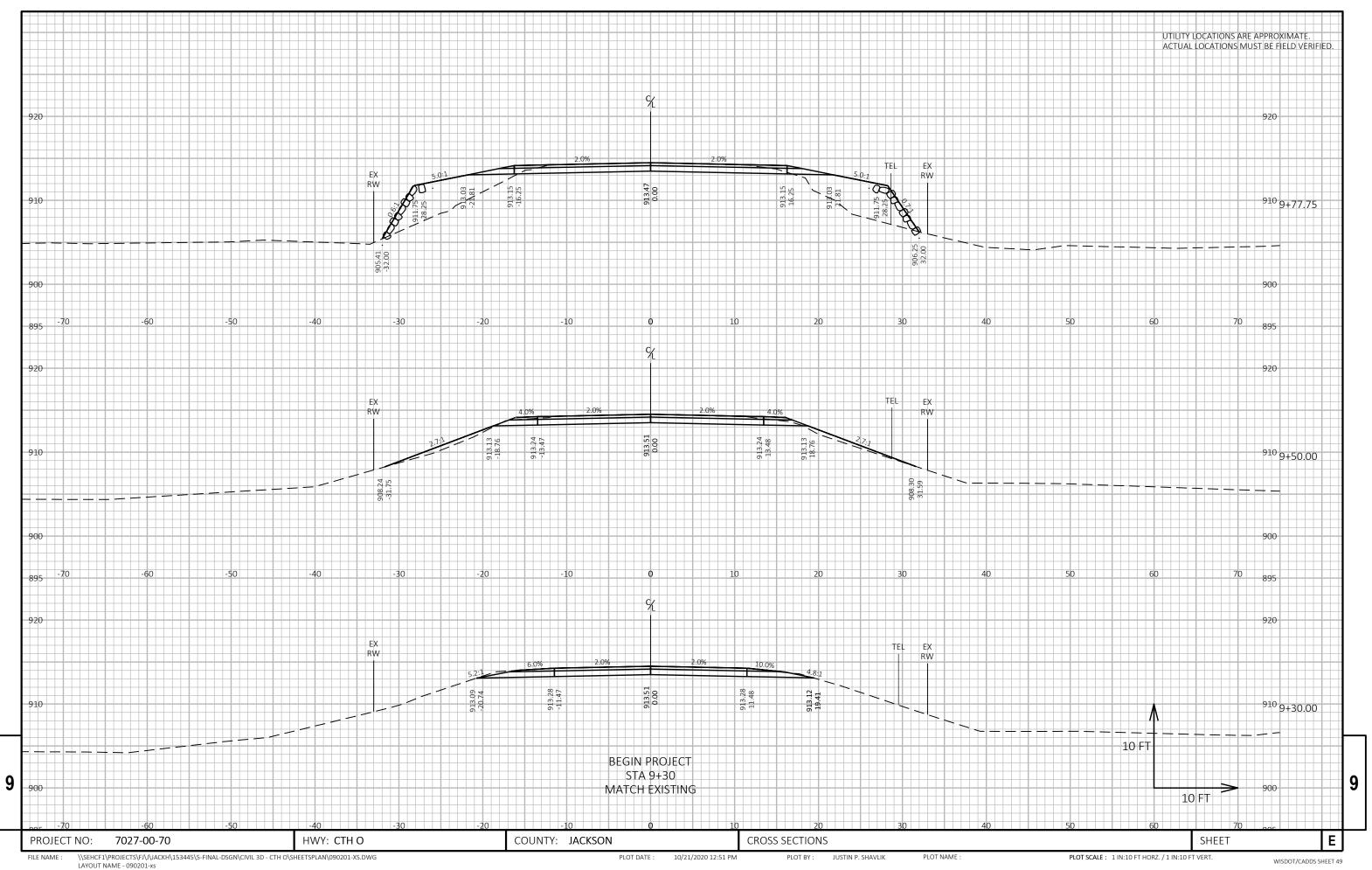
1) Unusable Pavement Material is included in Cut.
2) Excavation Common is the sum of the Cut column. Item number 205.0100
3) Does not include Unusable Pavement Excavation volume.
4) Will be backfilled with Excavation Common or Borrow.
5) Plus quantity indicates an excess of material. Minus indicates a shortage of material. Borrow item number 208.0100
6) Additional cut required within excavation for structures limits (Sta 9+61 to Sta 10+39). See structure plans for additional information

9

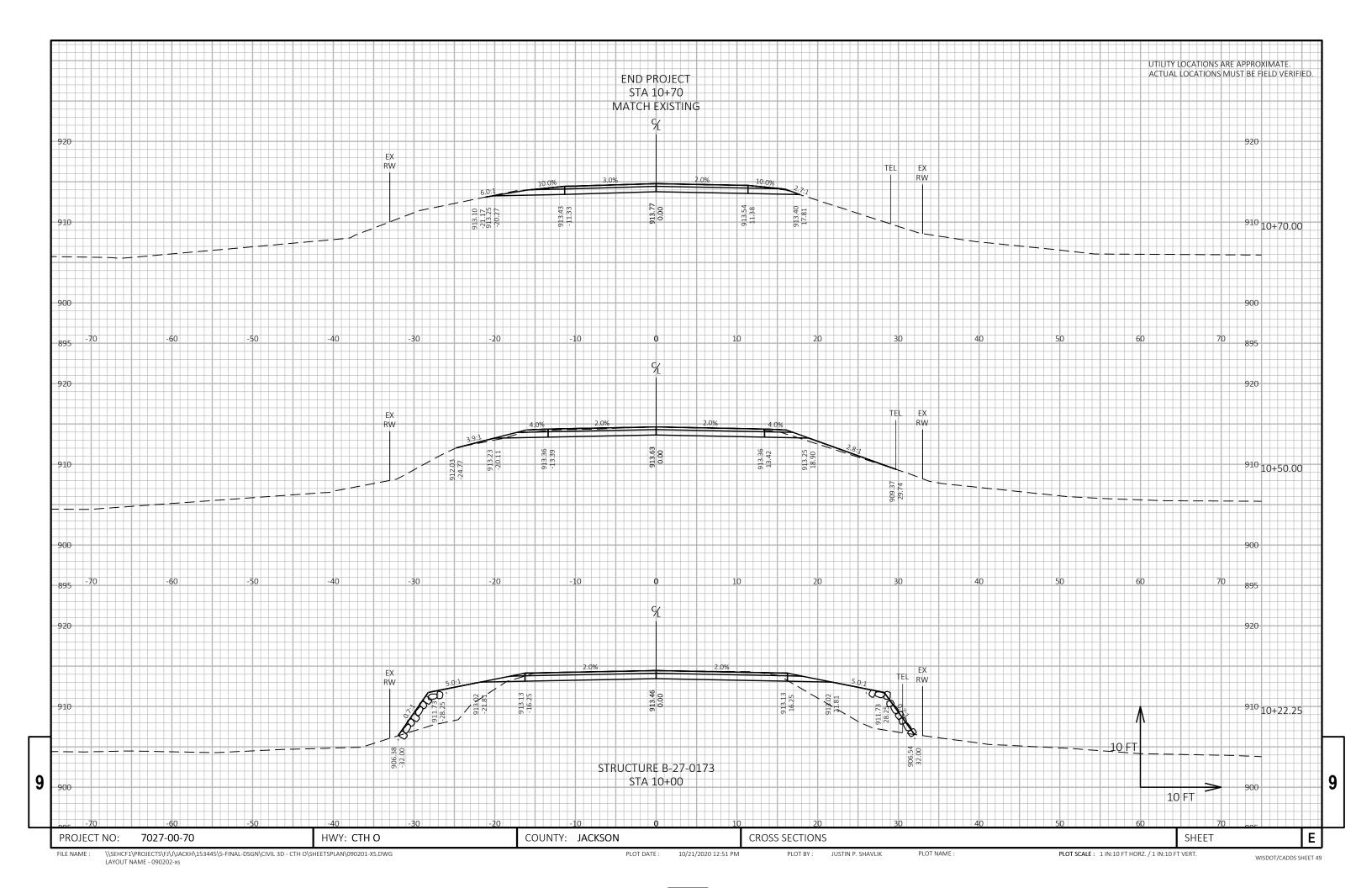
COUNTY: JACKSON SHEET Ε PROJECT NO: 7027-00-70 HWY: CTH O EARTHWORK QUANTITIES

10/21/2020 12:45 PM

PLOT NAME :



LAYOUT NAME - 090201-xs



Notes



Wisconsin Department of Transportation

Dedicated people creating transportation solutions through innovation and exceptional service.

http://www.dot.wisconsin.gov