NEL DEC 2015

ORDER OF SHEETS

Section No. 1 Typical Sections and Details Estimate of Quantities Section No. 3 Miscellaneous Quantities Section No. 4 Right of Way Plat

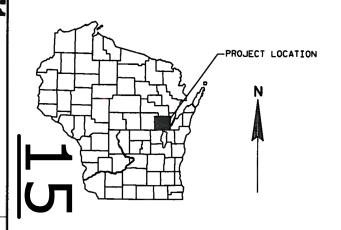
Plan and Profile Section No. 5 Standard Detail Drawings Section No. 6

Section No. 8 Structure Plans

Section No. 9 Computer Earthwork Data

Section No. 9 Cross Sections

TOTAL SHEETS = 66



DESIGN DESIGNATION

A.A.D.T. (2013)	=	4000
A.A.D.T. (2033)	=	4300
D.H.V.	=	3.5
D.D.	=	58/42
T.	=	4.4
DESIGN SPEED	=	25
ESALS	=	N/A

CONVENTIONAL SYMBOLS

WOODED OR SHRUB AREA

PLAN	
CORPORATE LIMITS	1////
PROPERTY LINE	<u>PL + 58</u> .
OT LINE	
IMITED HIGHWAY EASEMENT	L
EXISTING RIGHT OF WAY	
PROPOSED OR NEW R/W LINE	
SLOPE INTERCEPT	
REFERENCE LINE	
EXISTING CULVERT	I = F
PROPOSED CULVERT (Box or Pipe)	
COMBUSTIBLE FLUIDS	-caution
MARSH AREA	

PROFILE GRADE LINE 111 ORIGINAL GROUND MARSH OR ROCK PROFILE (To be noted as such) SPECIAL DITCH GRADE ELEVATION CULVERT (Profile View) UTILITIES ELECTRIC FIBER OPTIC GAS SANITARY SEWER STORM SEWER TELEPHONE WATER UTILITY PEDESTAL

POWER POLE

TELEPHONE POLE

Ħ

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

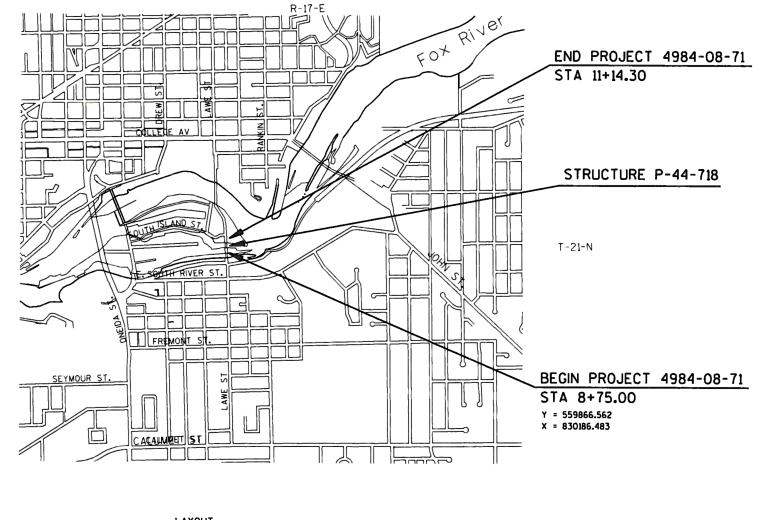
PLAN OF PROPOSED IMPROVEMENT

C APPLETON, LAWE ST

POWER CANAL BRIDGE

LOCAL STREET **OUTAGAMIE COUNTY**

> STATE PROJECT NUMBER 4984-08-71



LAYOUT 1000 FT.

TOTAL NET LENGTH OF CENTERLINE = 0.045 Mi.

COORDINATES ON THIS PLAN ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM (WCCS) OUTAGAMIE COUNTY.

FEDERAL PROJECT STATE PROJECT PROJECT CONTRACT 4984-08-71 WISC 2015643

> ACCEPTED FOR CITY OF APPLETON

DATE: 7-24-15 Paula Vandehey

Director of Public Works



STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

SEH. INC.

PREPARED BY

OMNNI ASSOCIATES, INC. OMNNI ASSOCIATES, INC.

GENERAL NOTES

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

FILL AS SHOWN ON THE PLANS PERTAINS TO EMBANKMENTS CONSTRUCTED FROM COMMON EXCAVATION. THE ALLOWANCE USED FOR EXPANDING THE FILLS TO COMPUTE THE VOLUME OF MATERIAL REQUIRED IS 30 PERCENT. ALL FILL VOLUMES SHOWN ARE THE ACTUAL VOLUMES.

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

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

ALL DISTURBED AREAS, NOT OTHERWISE SURFACED ARE TO BE TOPSOILED, FERTILIZED, SEEDED AND MULCHED.

SILT FENCE SHALL BE PLACED AS SHOWN ON THE PLAN OR AS DIRECTED BY THE ENGINEER IN THE FIELD. SILT FENCE SHALL BE PLACED PRIOR TO CONSTRUCTION AND IN PLACE PRIOR TO STRUCTURE REMOVAL.

THE EXACT LOCATIONS OF ALL EROSION CONTROL ITEMS SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD.

INLET AND DISCHARGE ELEVATIONS FOR DRAINAGE STRUCTURES SHOWN ON THE PLAN MAY BE ADJUSTED BY THE ENGINEER TO FIT FIELD CONDITIONS.

CURB AND GUTTER RADII ARE SHOWN TO THE FACE OF CURB.

ALL TRANSVERSE CONTRACTION JOINTS, LONGITUDINAL JOINTS AND CONSTRUCTION JOINTS FOR CONCRETE PAVEMENT AND CONCRETE CURB AND GUTTER SHALL BE SEALED

PLAN ELEVATIONS = USGS DATUM (NAVD 88)

EROSION CONTROL NOTES

RUNOFF COEFFICIENTS FOR THIS PROJECT: EXISTING PAVEMENT 0.95, EXISTING SLOPES 0.30, NEW PAVEMENT 0.95, NEW SLOPES 0.30.

TOTAL PROJECT AREA = 0.43 ACRES

TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = 0.23 ACRES

CONTACTS

ELECTRIC & GAS

WE ENERGIES

333 WEST EVERETT STREET - A279

MILWAUKEE, WI 53203 ATTN: DAN SANDE

TELEPHONE: (414) 221-4578
EMAIL: Dan.sande@we-energies.com

LOCAL CONTACT (ELECTRIC): KEN VAN-OSS

TELEPHONE: (920) 380-3318

EMAIL: Kenneth.Van-oss@we-energies.com

LOCAL CONTACT (GAS): TOM BORCHART

TELEPHONE: 920-380-3449

EMAIL: thomas.borchart@we-energies.com

COMMUNICATIONS

TIME WARNER CABLE

3520 EAST DESTINATION DRIVE

APPLETON, WI 54915 ATTN: VINCE ALBIN

TELEPHONE: (920) 831-9249 EMAIL: vince.albin@twcable.com

WATER

CITY OF APPLETON MARK KILHEFFER

100 N APPLETON STREET APPLETON, WI 54911 TELEPHONE: (920) 832-6327

ELEPHONE: (920) 832-6327

EMAIL: mark.kilheffer@appleton.org

SEWER CITY OF APPLETON

CHAD WEYENBERG

100 N APPLETON STREET

APPLETON, WI 54911 TELEPHONE: (920) 832-5915

EMAIL: chad.weyenberg@appleton.org

DNR LIAISON MATT SCHAEVE

DEPARTMENT OF NATURAL RESOURCES

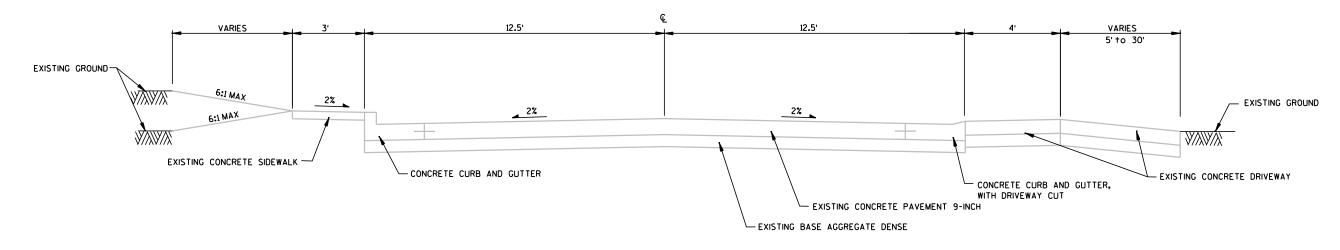
2984 SHAWANO AVENUE GREEN BAY, WI 54307-0448 TELEPHONE: (920) 662-5472

EMAIL: Matthew.Schaeve@wisconsin.gov



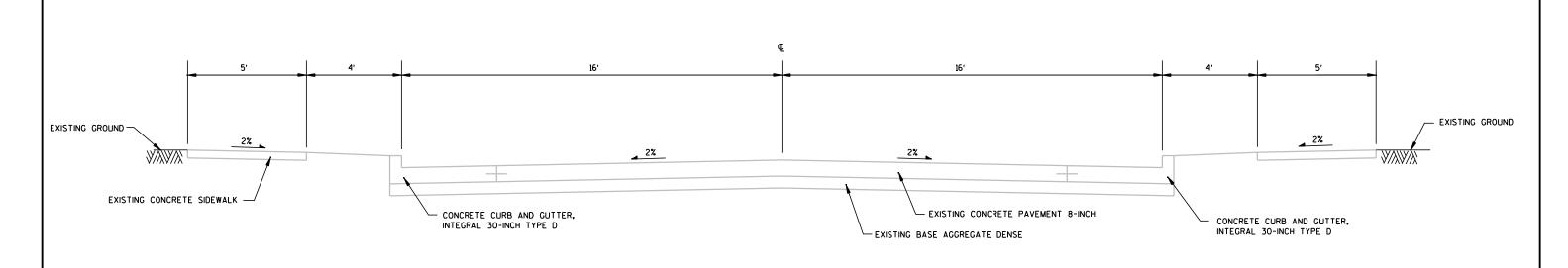
PROJECT NO: 4984-08-71 HWY: LAWE ST COUNTY: OUTAGAMIE GENERAL NOTES SHEET: E 2.1

ORIG. DATE: 9/19/2013



EXISTING TYPICAL SECTION

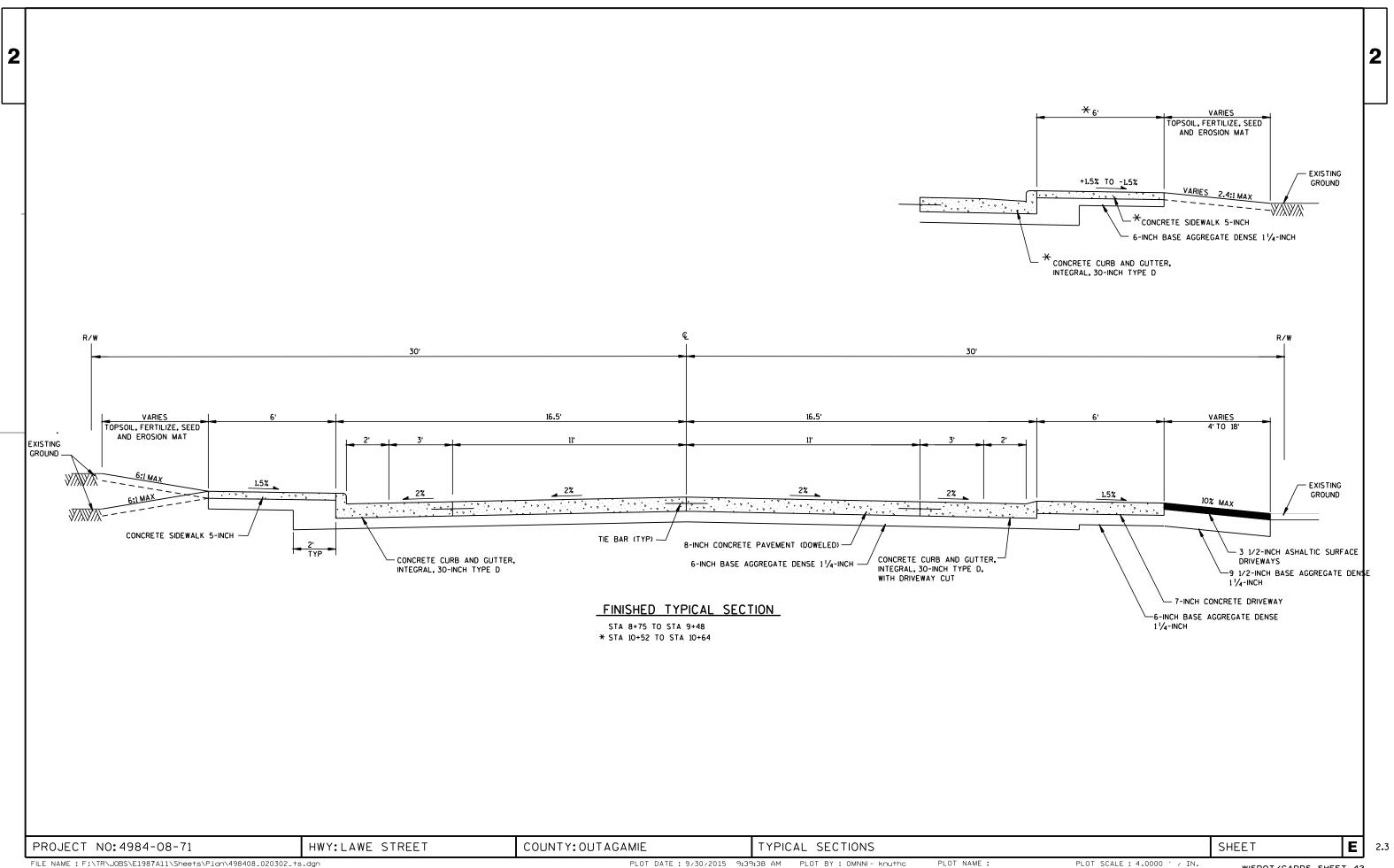
SOUTH OF BRIDGE



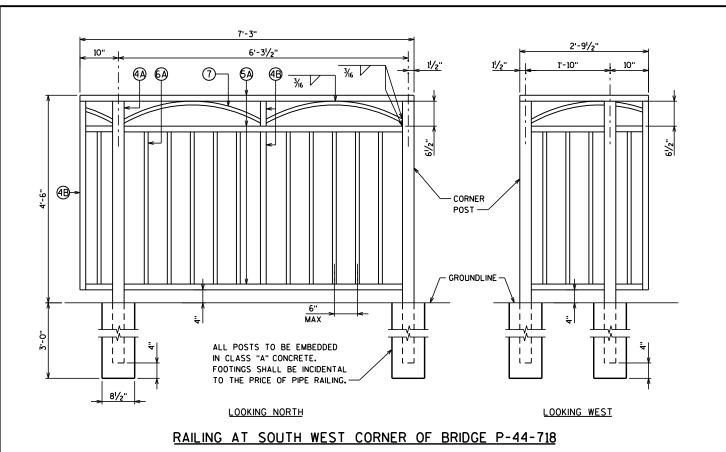
EXISTING TYPICAL SECTION

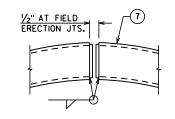
NORTH OF BRIDGE

E HWY: LAWE STREET PROJECT NO: 4984-08-71 COUNTY: OUTAGAMIE TYPICAL SECTIONS SHEET 2.2 PLOT SCALE: 4.0000 ' / IN.



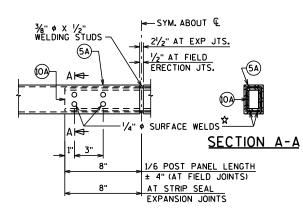






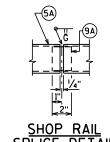
CURVED MEMBER JOINT DETAIL

SEAL ENDS ON CURVED STRUCTURAL TUBING WITH 1/4" PLATE. WELD AND GRIND SMOOTH.



FIELD ERECTION JOINT DETAIL

☆ MIN. %" FLAT SURFACE DIA. PUNCHINGS OR STUDS MAY BE USED AS AN ALTERNATE.



SPLICE DETAIL (LOCATION MUST BE SHOWN ON SHOP DRAWINGS)

- (4A) STRUCTURAL TUBING 3" X 3" X 36". PLACE VERTICAL. WELD TO NO. 5.
- (4B) STRUCTURAL TUBING 3" X 11/2" X 3/6". PLACE VERTICAL. WELD TO NO. 5.
- $\widehat{\text{5A}}$ STRUCTURAL TUBING 3" X 1½" X % " RAILS. WELD TO NO. 4. INSIDE OF TUBE TO BE PAINTED AT ALL FIELD ERECTION & EXPANSION JOINTS.
- (6A) BAR 1" X 1" PICKETS. WELD TO NO. 5. PLACE VERTICAL.
- (7) BAR 1" X 1". BEND TO REQUIRED RADIUS. WELD TO NO. 4 & 5.
- (9A) RECTANGULAR SLEEVE FABRICATED FROM 36" PLATES. PROVIDE "SLIDING FIT".
- (OA) RECTANGULAR SLEEVE FABRICATED FROM 36" PLATES. (1'-4" @ FIELD ERECTION JTS.) (1'-4" @ STRIP SEAL EXP. JTS.)

RAILING NOTES

BID ITEM SHALL BE "RAILING STEEL TYPE C3 GALVANIZED PEDESTRIAN, WHICH SHALL INCLUDE ALL STEEL ITEMS SHOWN.

FOR RAILING AT SOUTHEAST CORNER OF BRIDGE, HORIZONTAL MEMBERS MUST BE CURVED AND NOT A SERIES OF CHORDS.

POST BASE PLATES SHALL BE FLAT WITH ALL SURFACES SMOOTH AND FREE FROM WARP AND ALL EDGES SMOOTH, STRAIGHT AND VERTICAL. ALL PLATE CUTS SHALL BE MACHINE OR MACHINE FLAME CUTS.

NO. 1, 2, 6, 7, 9, 10 AND NO. 11 SHALL CONFORM TO ASTM A709 GRADE 36. STRUCTURAL TUBING SHALL CONFORM TO ASTM A500 GRADE B (NO. 4, AND NO. 5).

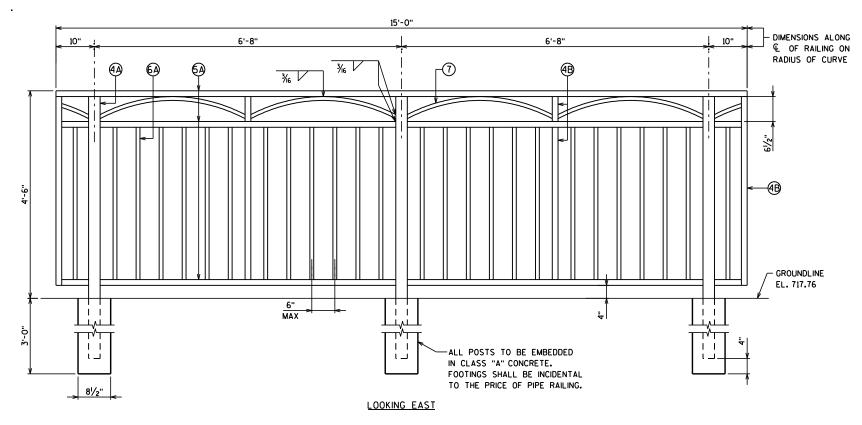
ANCHORAGES SHALL BE ACCURATELY PLACED TO PROVIDE CORRECT ALIGNMENT OF RAILING. SET NORMAL TO GRADE.

CUT BOTTOM OF POST TO MAKE POST VERTICAL IN BOTH TRANSVERSE AND

ALL MATERIAL SHALL BE GALVANIZED AFTER FABRICATION. PRIOR TO GALVANIZING, THE STEEL RAILING SHALL BE GIVEN A NO. 6 BLAST CLEANING PER SSPC SPECIFICATIONS, PAINT OVER GALVANIZING WITH AN APPROVED TIE COAT AND TOP COAT AS SPECIFIED IN THE "BRIDGE SPECIAL PROVISIONS". THE RAILING SHALL BE PAINTED FEDERAL COLOR NO. 27038, BLACK. VENT HOLES SHALL BE DRILLED IN POST AND RAIL MEMBERS AS REQUIRED TO FACILITATE GALVANIZING AND DRAINAGE.

RAILING SHALL BE FABRICATED IN LENGTHS THAT INCLUDE 3 OR 4 POSTS.

TOUCH-UP PAINTING TO BE DONE AT COMPLETION OF STEEL RAILING INSTALLATION TO THE SATISFACTION OF THE ENGINEER AT NO EXTRA COST.



RAILING AT SOUTH EAST CORNER OF BRIDGE P-44-718

HWY: LAWE STREET

SPECIAL RAILING DETAIL

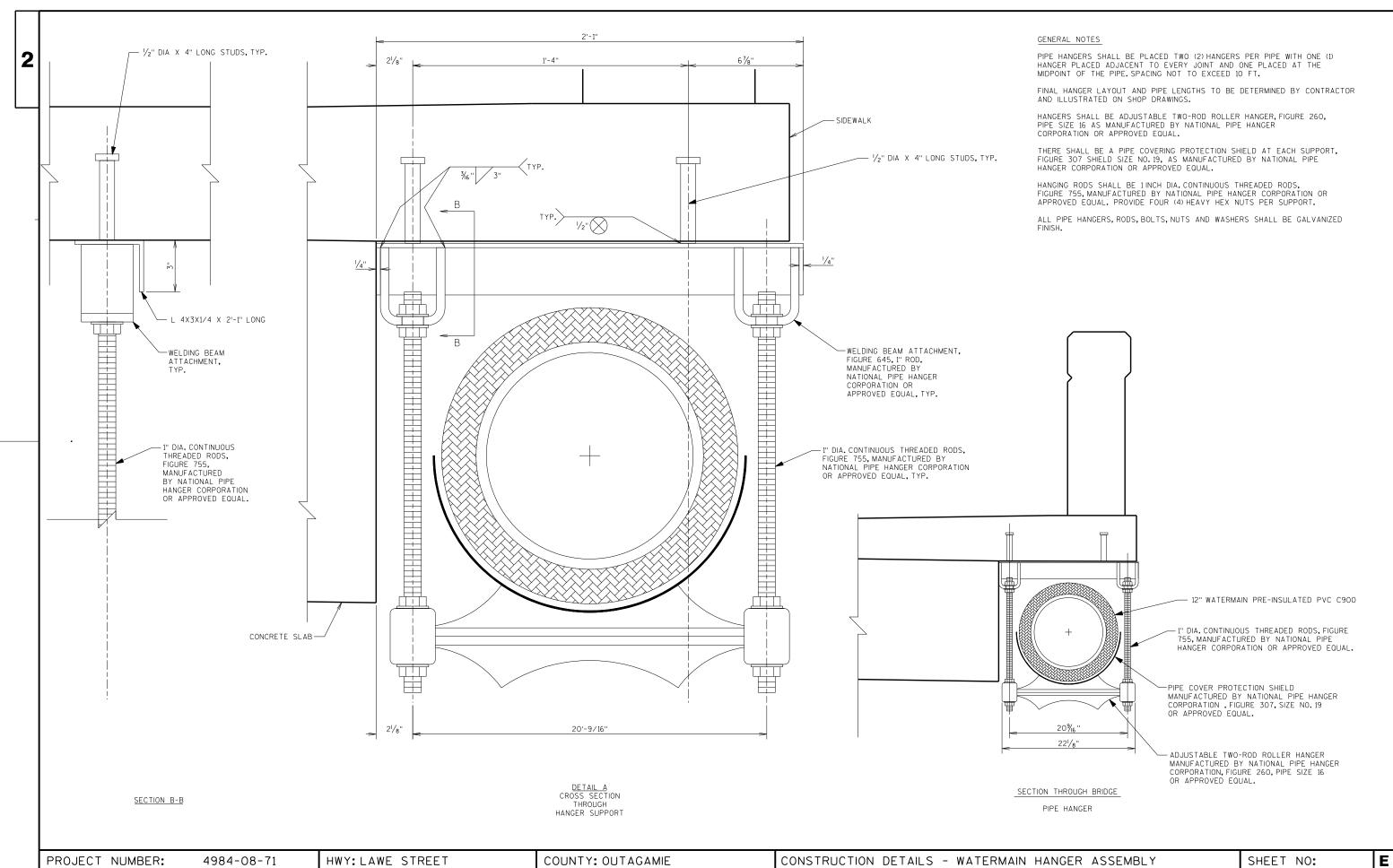
PLOT NAME :

Ε

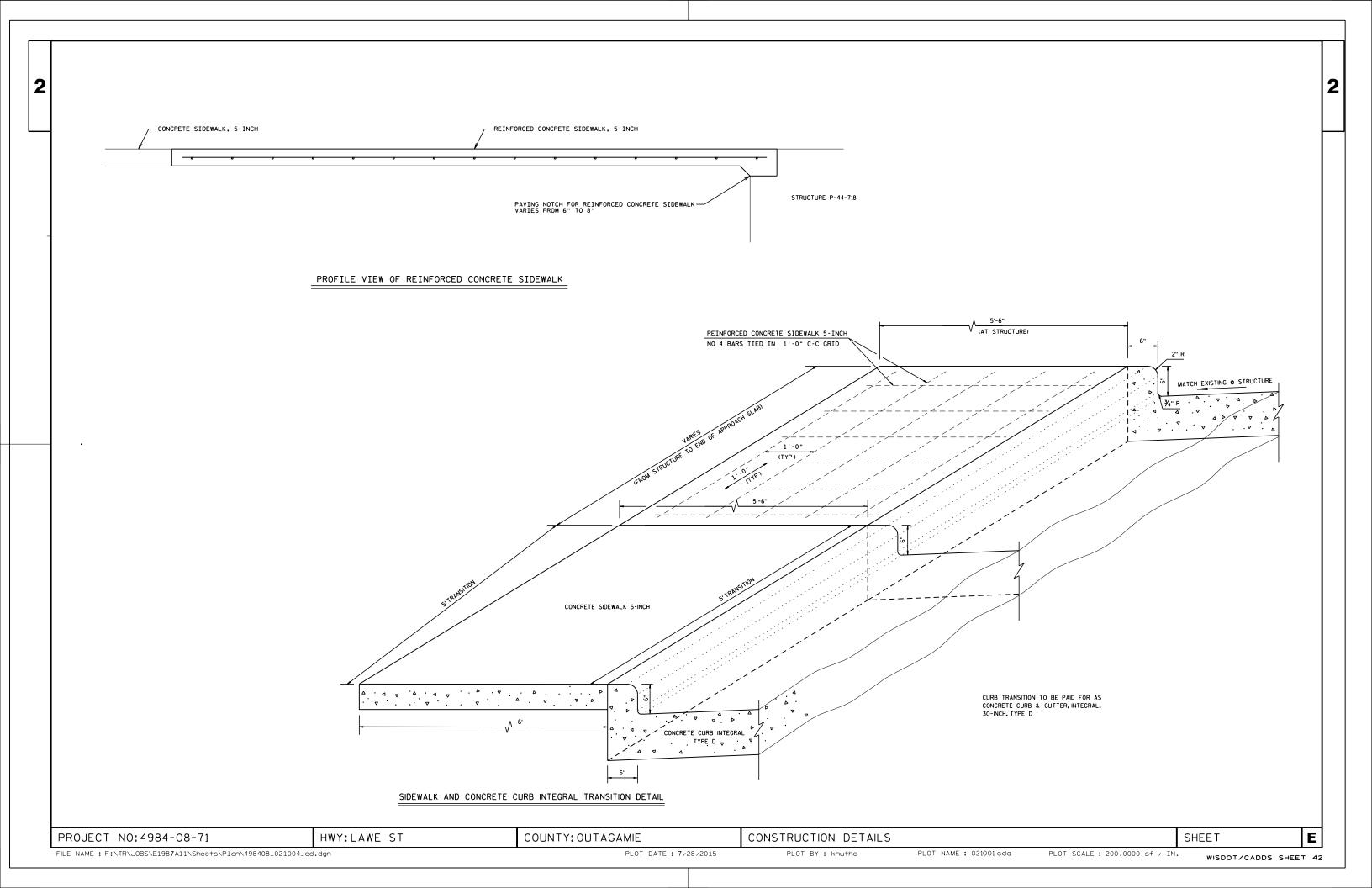
PROJECT NO: 4984-08-71

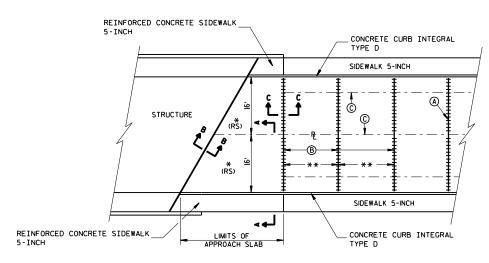
COUNTY: OUT AGAMIE



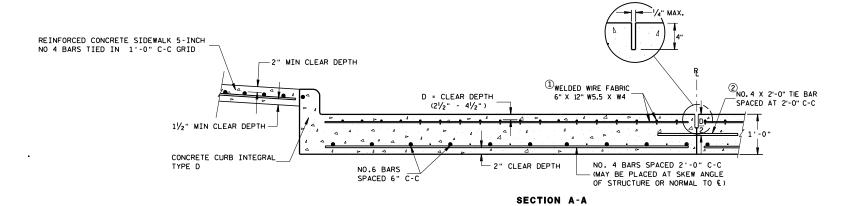


2.x

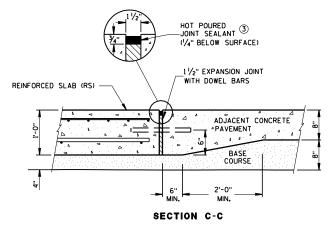




APPROACH SLAB AND ADJACENT PAVEMENT



REINFORCEMENT POSITIONING DETAIL



TRANSITION DETAIL APPROACH SLAB TO ADJACENT PAVEMENT

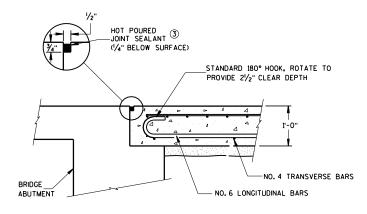
HWY: LAWE STREET

CONCRETE PAVEMENT APPROACH SLAB DETAIL

GENERAL NOTES

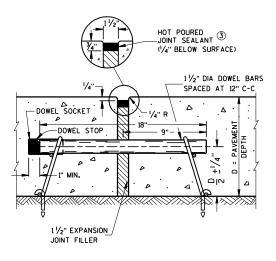
THE CONTRACTOR MAY SPLICE NO.6 BARS IN THE APPROACH SLAB FOR SKEWED STRUCTURES ONLY, STAGGER SPLICES WITH A MAXIMUM OF ONE SPLICE PER BAR. THE LENGTH OF LAP IS 20 INCHES.

- 1) THE CONTRACTOR MAY USE NO. 4 BARS SPACED AT 2'-0" C-C IN BOTH THE LONGITUDINAL AND TRANSVERSE DIRECTIONS FOR TOP REINFORCEMENT AS AN ALTERNATIVE TO THE WELDED WIRE FABRIC.
- 2 THE CONTRACTOR MAY OMIT TIE BARS BETWEEN REINFORCED SLABS WHERE SLAB REINFORCEMENT BARS EXTEND ACROSS THE CENTERLINE OR REFERENCE LINE.
- 3 USE A JOINT SEALANT MEETING THE REQUIREMENTS OF ASTM D6690.
- *(RS) = REINFORCED CONCRETE SLAB
- **STANDARD TRANSVERSE JOINT SPACING
 (SEE SDD "URBAN DOWELED CONCRETE PAVEMENT")
- (A) STANDARD CONTRACTION JOINT NORMAL TO R
- B 11/2" EXPANSION JOINT WITH DOWEL BARS NORMAL TO R
- STANDARD LONGITUDINAL JOINT AND TIE BARS.



SECTION B-B

BEND DETAIL BOTTOM REINFORCEMENT

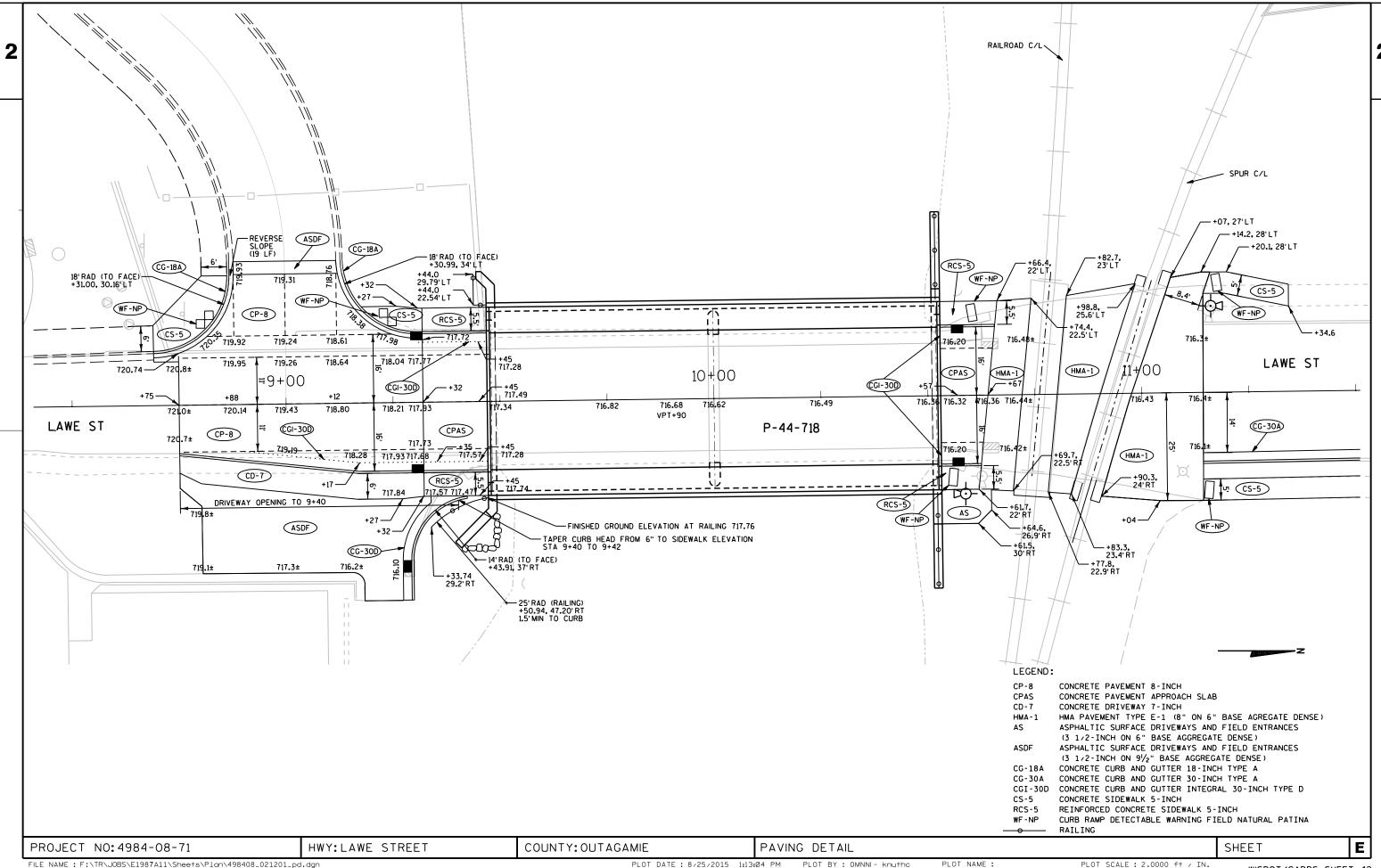


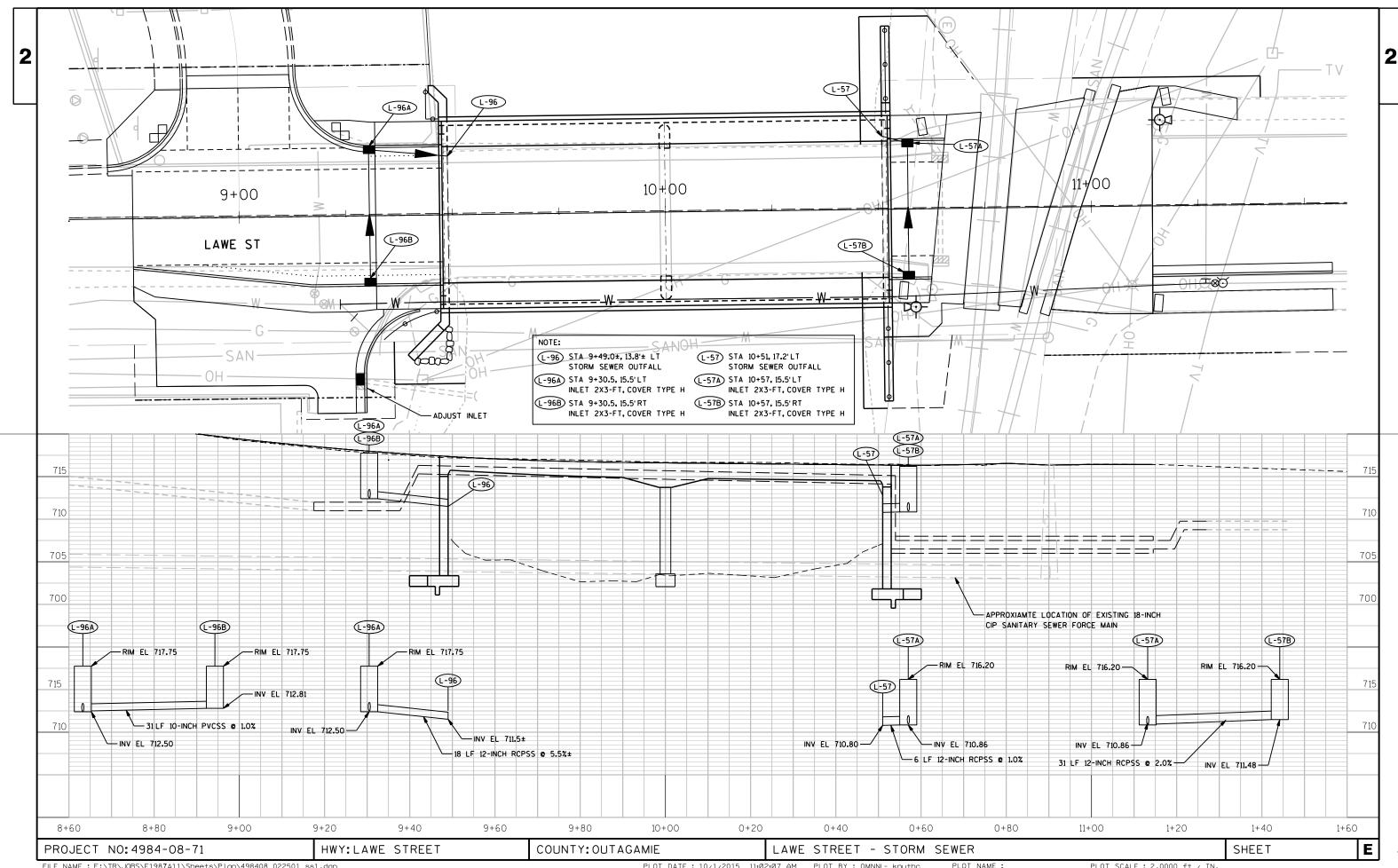
EXPANSION JOINT

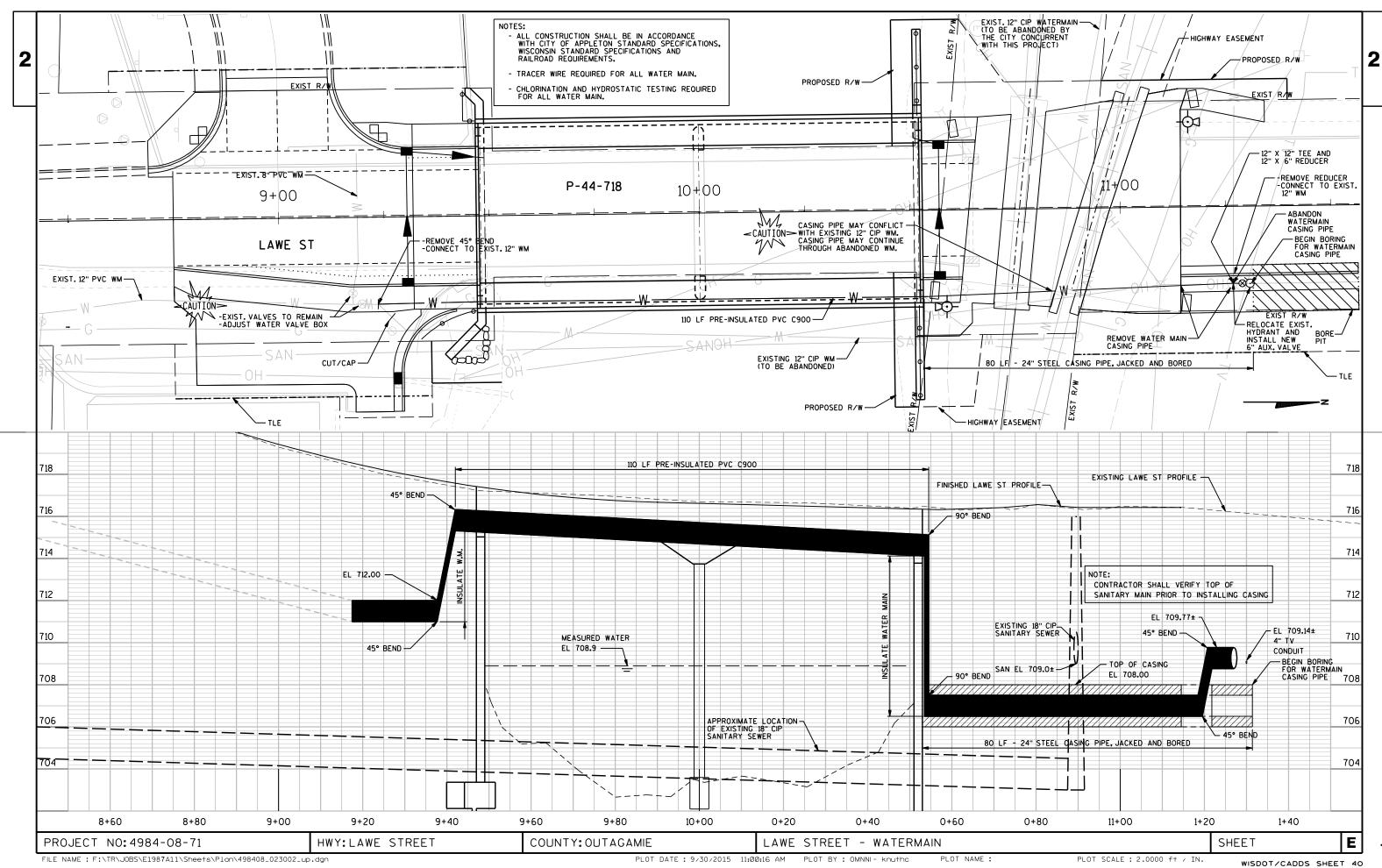
PROJECT NO: 4984-08-71

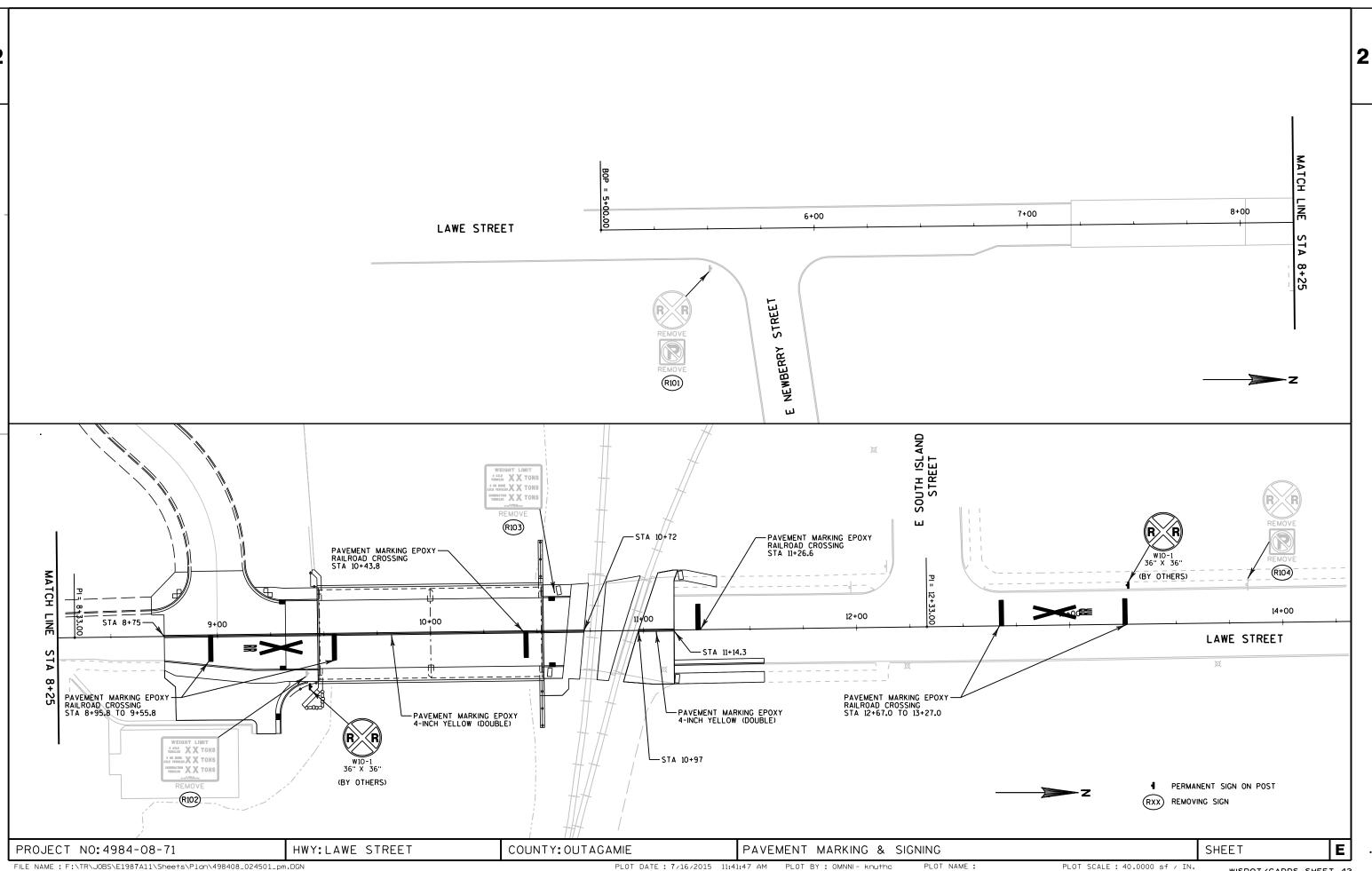
Ε

SHEET









HWY: LAWE STREET

PROJECT NO: 4984-08-71

COUNTY: OUTAGAMIE

W057-52

TRAFFIC CONTROL AND DETOUR DETAIL

SHEET

Ε

DATE 07	OCT15	ES	TIMAT	E OF QUAN	TITIES
LINE					4984-08-71
NUMBER	ITEM	I TEM DESCRIPTION	UNIT	TOTAL	QUANTI TY
0010	201. 0105	Clearing	STA	1.000	1. 000
0020	201. 0205	Grubbi ng	STA	1.000	1.000
0030	203. 0200	Removing Old Structure (station) 01. 9+45	LS	1. 000	1. 000
0040	203. 0600. 5	S Removing Old Structure Over Waterway With Minimal Debris (station) 01. STA	LS	1. 000	1. 000
0050	204. 0100	10+00 Removing Pavement	SY	205. 000	205. 000
0060	204. 0150	Removing Curb & Gutter	LF	76. 000	76. 000
0070	204. 0155	Removing Concrete Sidewalk	SY	102. 000	102. 000
0800	204. 0165	Removing Guardrail	LF	26. 000	26. 000
0090	204. 0220	Removing Inlets	EACH	2. 000	2. 000
0100	204. 0245	Removing Storm Sewer (size) 01. 12-INCH	LF	25. 000	25. 000
0110	204. 0245	Removing Storm Sewer (size) 02. 15-INCH	LF	13.000	13.000
0120	205. 0100	Excavation Common	CY	302.000	302.000
0130	206. 1000	Excavation for Structures Bridges	LS	1. 000	1. 000
0140	204 5000	(structure) 01. P-44-718	1.0	1 000	1 000
0140	206. 5000	Cofferdams (structure) 01. P-44-718	LS	1.000	1. 000
0150	210. 0100	Backfill Structure	CY	430. 000	430. 000
0160	213. 0100	Finishing Roadway (project) 01.	EACH	1. 000	1. 000
3100	213.0100	4984-08-71	LAGII	1.000	1.000
0170	305. 0120	Base Aggregate Dense 1 1/4-Inch	TON	315.000	315. 000
0180	415. 0080	Concrete Pavement 8-Inch	SY	225. 000	225. 000
0190	415. 0410	Concrete Pavement Approach SI ab	SY	81.000	81. 000
0200	416. 0170	Concrete Driveway 7-Inch	SY	38.000	38. 000
0010	447 0746	Delillad Tila Davis			00.000
0210	416. 0610	Drilled Tie Bars	EACH	20.000	20. 000
0220	416. 0620	Drilled Dowel Bars	EACH	14.000	14.000
0230	455. 0105 455. 0605	Asphaltic Material PG58-28	TON	5. 000	5. 000
0240 0250	455. 0605 460. 1101	Tack Coat HMA Pavement Type E-1	GAL TON	22. 000 90. 000	22. 000 90. 000
0250	400. 1101	пил гачешент туре L-1	ION	7 0.000	70.000
0260	460. 2000	Incentive Density HMA Pavement	DOL	60.000	60. 000
0270	465. 0120	Asphaltic Surface Driveways and Field	TON	24. 000	24. 000
		Entrances			
0280	502. 0100	Concrete Masonry Bridges	CY	504.000	504.000
0290	502. 3200	Protective Surface Treatment	SY	617. 000	617. 000
0300	502. 5002	Masonry Anchors Type L No. 4 Bars	EACH	244. 000	244. 000
0210	F02 F02F	Macanay Anghara Tima I No. 5 Days		104 000	104 000
0310	502. 5005	Masonry Anchors Type L No. 5 Bars	EACH	124.000	124.000
0320	505. 0400	Bar Steel Reinforcement HS Structures	LB LB	1, 020. 000	1, 020. 000
0330	505. 0600	Bar Steel Reinforcement HS Coated Structures	LD	94, 890. 000	94, 890. 000
0340	509. 1500	Concrete Surface Repair	SF	10.000	10. 000
0350	511. 1200	Temporary Shoring (structure) 01.	SF	1, 875. 000	1, 875. 000
5556	51200	P-44-718	J.	., 5, 5, 555	., 5. 5. 555
0360	511. 2200	Temporary Shoring Left in Place	SF	100.000	100. 000
		(structure) 01. P-44-718			
0370	513. 7016	Railing Steel Type C3 (structure) 01.	LF	212. 000	212. 000
0000	E40 0011	P-44-718		44 000	44 000
0380	513. 8016	Railing Steel Pedestrian Type C3	LF	44. 000	44. 000
0200	E16 0E00	(structure) 01. P-44-718	cv	41 000	41 000
0390 0400	516. 0500 601. 0405	Rubberized Membrane Waterproofing Concrete Curb & Gutter 18-Inch Type A	SY LF	41. 000 56. 000	41. 000 56. 000
0400	001.0405	Concrete outb & Gutter 18-THCH Type A	Lľ	30.000	30.000
0410	601. 0409	Concrete Curb & Gutter 30-Inch Type A	LF	42. 000	42. 000
0420	601. 0411	Concrete Curb & Gutter 30-Inch Type D	LF	35. 000	35. 000
0430	601. 0452	Concrete Curb & Gutter Integral 30-Inch	LF	109. 000	109. 000
		Type D			
0440	602. 0410	Concrete Sidewalk 5-Inch	SF	547. 000	547. 000

DATE 07	OCT15	E S 7	ГІМАТ	E OF QUAN	T I T I E S 4984-08-71
NUMBER 0450	ITEM 602.0515	ITEM DESCRIPTION Curb Ramp Detectable Warning Field Natural Patina	UNI T SF	TOTAL 48. 000	4984-08-71 QUANTI TY 48. 000
0460 0470	606. 0300 608. 0312	Riprap Heavy Storm Sewer Pipe Reinforced Concrete Class III 12-Inch	CY LF	12. 000 37. 000	12. 000 37. 000
0480 0490 0500	611. 0624 611. 3230 611. 8115	Inlet Covers Type H Inlets 2x3-FT Adjusting Inlet Covers	EACH EACH EACH	4. 000 4. 000 1. 000	4. 000 4. 000 1. 000
0500	619. 1000	Mobilization	EACH	1. 000	1. 000
0520	624. 0100	Water	MGAL	2.000	2. 000
0530 0540	625. 0100 628. 1504	Topsoil Silt Fence	SY LF	236. 000 200. 000	236. 000 200. 000
0550	628. 1520	Silt Fence Maintenance	LF	200. 000	200. 000
0560 0570	628. 1905 628. 1910	Mobilizations Erosion Control Mobilizations Emergency Erosion Control	EACH EACH	3. 000 1. 000	3. 000 1. 000
0580	628. 2006	Erosion Mat Urban Class I Type A	SY	236. 000	236. 000
0590	628. 7005	Inlet Protection Type A	EACH	4.000	4.000
0600	628. 7010	Inlet Protection Type B	EACH	5. 000	5. 000
0610 0620	629. 0210 630. 0140	Fertilizer Type B Seeding Mixture No. 40	CWT LB	0. 150 4. 400	0. 150 4. 400
0630	630. 0200	Seeding Temporary	LB	3. 300	3. 300
0640 0650	638. 2602 638. 3000	Removing Signs Type II Removing Small Sign Supports	EACH EACH	6. 000 4. 000	6. 000 4. 000
0660 0670	643. 0100 643. 0420	Traffic Control (project) 01. 4984-08-71 Traffic Control Barricades Type III	EACH DAY	1. 000 2, 525. 000	1. 000 2, 525. 000
0680	643. 0420	Traffic Control Warning Lights Type A	DAY	5, 049. 000	5, 049. 000
0690	643.0900	Traffic Control Signs	DAY	1, 931. 000	1, 931. 000
0700	643. 2000	Traffic Control Detour (project) 01. 4984-08-71	EACH	1. 000	1. 000
0710 0720	643. 3000 645. 0120	Traffic Control Detour Signs Geotextile Fabric Type HR	DAY SY	4, 010. 000 36. 000	4, 010. 000 36. 000
0720	645. 0120 646. 0106	Pavement Marking Epoxy 4-Inch	SY LF	428. 000	428. 000
0740	647. 0110	Pavement Marking Railroad Crossings	EACH	2. 000	2. 000
0750	650. 4000	Epoxy Construction Staking Storm Sewer	EACH	2. 000	2. 000
0760	650. 4500	Construction Staking Subgrade	LF	133. 000	133. 000
0770 0780	650. 5000 650. 5500	Construction Staking Base Construction Staking Curb Gutter and	LF LF	51. 000 57. 000	51. 000 57. 000
0780	650. 6500	Curb & Gutter Construction Staking Curb Gutter and Curb & Gutter Construction Staking Structure Layout	LF	1. 000	1. 000
0800	650. 7000	(structure) 01. P-44-718 Construction Staking Concrete Pavement	LF	83. 000	83. 000
0810	650. 9910	Construction Staking Supplemental	LS	1. 000	1. 000
0010		Control (project) 01. 4984-08-71		1.000	1.000
0820 0830	650. 9920 690. 0150	Construction Staking Slope Stakes Sawing Asphalt	LF LF	133. 000 94. 000	133. 000 94. 000
0840	690. 0150	Sawing Asphart Sawing Concrete	LF	85. 000	85. 000
0850	715. 0415	Incentive Strength Concrete Pavement	DOL	500.000	500.000
0860	715. 0502	Incentive Strength Concrete Structures	DOL	3, 024. 000	3, 024. 000
0870	ASP. 1TOA	On-the-Job Training Apprentice at \$5. OO/HR	HRS	1, 200. 000	1, 200. 000
0880	ASP. 1TOG	On-the-Job Training Graduate at \$5.00/HR		600.000	600.000
0890 0900	SPV. 0060 SPV. 0060	Special 01. Adjusting Water Valve Box Special 02. Relocating Existing Hydrant	EACH EACH	2. 000 1. 000	2. 000 1. 000

DATE 07	70CT15	EST	IMAT	E OF QUAN	TITIES 4984-08-71
NUMBER	ITEM	ITEM DESCRIPTION	UNI T	TOTAL	QUANTI TY
0910	SPV. 0060	Special O3. Auxillary Hydrant Valve, 6-Inch	EACH	1. 000	1. 000
0920	SPV. 0060	Special 04. Bends, 12-Inch	EACH	6. 000	6.000
0930	SPV. 0090	Special 01. Water Main PVC C900 12-Inch	LF	105. 000	105.000
0940	SPV. 0090	Special O2. Water Main Pre-Insulated	LF	110.000	110.000
		PVC C900 12-Inch			
0950	SPV. 0090	Special 03. Hydrant Leads	LF	10. 000	10. 000
	001/ 0000				
0960	SPV. 0090	Special 04. Steel Casing Pipe, 24-Inch	LF.	80.000	80. 000
0970	SPV. 0090	Special O5. Railing Steel Pedestrian	LF	25. 000	25. 000
	001/ 0000	Type C3 Special			
0980	SPV. 0090	Special O6. Storm Sewer Pipe PVC 10-Inch		49. 000	49. 000
0990	SPV. 0105	Special 01. Concrete Pavement Joint Layout	LS	1. 000	1. 000
1000	SPV. 0165	Special 02. Reinforced Concrete	SF	293.000	293.000
		Sidewalk 5-Inch			
1010	SPV. 0180	Special 01. Concrete Joint Sealing	SY	306.000	306.000
1020	SPV. 0195	Special 01. Excavation, Hauling, and	TON	1, 024. 000	1, 024. 000
		Disposal of Contaminated Historic Fill			

CLEARING AND GRUBBING

				201.0105	201.0205			
STATION	TO	STATION	LOCATION	CLEARING	GRUBBING			
				STA	STA			
CATEGORY	CATEGORY 0010							
9+00	-	9+50	RT	1	1			

TOTAL 1 1

REMOVING OLD STRUCTURE STA 9+45

STATION TO STATION	DIR	LOCATION	203.0200.01 REMOVING OLD STRUCTURE STA 9+45	COMMENTS
CATEGORY 0010			LS	<u> </u>
8+75 - 9+47	LT	LAWE ST	1	BUILDING FOUNDATION WALL

TOTAL 1

REMOVING PAVEMENT

STATION TO STATION			204.0100					
		LOCATION		COMMENTS				
			SY					
CATEGORY 00	CATEGORY 0010							
8+75	- 9+47	LAWE ST	205	INCLUDES ADJACENT CURB AND GUTTER				

TOTAL 205

REMOVING CURB AND GUTTER

STATION	то	STATION	DIR	LOCATION	204.0150			
CATEGORY	CATEGORY 0010							
9+28	-	9+40	RT	LAWE ST	34			
11+14	-	11+56	RT	LAWE ST	42			

TOTAL 76

REMOVING STORM SEWER

			204.0245.01	204.0245.02				
STATION	DIR	LOCATION	12-INCH	15-INCH	COMMENTS			
			LF	LF				
CATEGORY	CATEGORY 0010							
10+15		LAWE ST	25		RCP			
10+15	RT	LAWE ST		13	CMP			

TOTALS 25 13

REMOVING CONCRETE SIDEWALK

					204.0155
STATION	то	STATION	DIR	LOCATION	
					SY
CATEGORY	001	0			
8+75	-	9+47	LT	LAWE ST	27
8+75	-	9+47	RT	LAWE ST	30
10+52	_	10+62	LT	LAWE ST	5
10+52	_	10+62	RT	LAWE ST	4
11+14	-	11+34	LT	LAWE ST	11
11+14	-	11+56	RT	LAWE ST	23

TOTAL 102

REMOVING GUARDRAIL

STATION	то	STATION	DIR	LOCATION	204.0165 LF			
CATEGORY	CATEGORY 0010							
9+32	-	9+47	RT	LAWE ST	26			

TOTAL 26

REMOVING INLETS

			204.0220
STATION	DIR	LOCATION	
			EA
CATEGORY	0010		•
10+15	LT	LAWE ST	1
10+15	RT	LAWE ST	1

TOTAL 2

BASE AGGREGATE DENSE

				305.0120	624.0100
STATION	то	STATION	LOCATION	1 1/4-INCH	WATER
				TON	MGAL
CATEGORY (001	0			
8+75	-	9+47	LAWE ST	150	1
8+75	-	9+47	DRIVEWAY	61	0
10+53	-	11+56	LAWE ST	104	1

TOTALS 315 2

PROJECT NO: 4984-08-71 HWY: LAWE STREET COUNTY: OUTAGAMIE MISCELLANEOUS QUANTITIES SHEET E 3.01

EARTHWORK SUMMARY

FROM/TO STATION	LOCATION	EXCAVATIO 205. C	0100 Y	SALVAGED/ UNUSABLE PAVEMENT MATERIAL CY	MATERIAL TO BE LANDFILLED CY (15)	SPV.0195.01 EXCAVATION, HAULING AND DISPOSAL OF CONTAMINATED HISTORIC FILL TON	AVAILABLE MATERIAL	UNEXPANDED FILL	EXPANDED FILL	MASS ORDINATE +/- (14)	WASTE
		CUT	EBS EXCAVATION						Factor 1.30		
CATEGORY		CATEGOR	Y 0010			CATEGORY 0030					
8+75 - 9+47	LAWE ST	209	0	51	119	227	39	9	12	27	27
	SUBTOTAL	209	0	51	119	227	39	9	12	27	27
						0					
10+52 - 10+64	LAWE ST	20	0	0	15	28	5	19	25	-20	0
10+64 - 10+72	BETWEEN CONCRETE APPROACH SLAB & RR	16	0	0	0	0	16	0	0	16	16
10+80 - 10+90	BETWEEN RR & SPUR	21	0	0	0	0	21	0	0	21	21
10+98 - 11+14	BETWEEN SPUR & CONSTRUCITON LIMITS	37	0	0	0	0	37	0	0	37	37
	SUBTOTAL	93	0	0	15	28	78	19	25	54	73
	P-44-718				405	770					
	TOTALS	302	0	51	539	1,024	117	28	37	80	100

(1) CUT INCLUDES VOLUME REMOVED AS PART OF REMOVING PAVEMENT

(14) THE MASS ORDINATE + OR - QTY CALCULATED FOR THE DIVISION. PLUS QUANTITY INDICATES AN EXCESS OF MATERIAL WITHIN THE DIVISION. MINUS INDICATES A SHORTAGE OF MATERIAL WITHIN THE DIVISION.

(15)SEE ITEM SPV.0195.01. 1.9 TONS PER CUBIC YARD WAS USED FOR THE CONVERSION

CONCRETE PAVEMENT

				415.0080	415.0410	SPV.0180.01
STATION	то	STATION	LOCATION	8-INCH	APPROACH SLAB	CONCRETE JOINT SEALING
				SY	SY	SY
CATEGORY				0010	0010	0030
8+75	-	9+32	LAWE ST	225		225
9+32	-	9+47	LAWE ST		47	47
10+53	_	10+64	LAWE ST		34	34

TOTALS 225 81 306

DRILLED TIE BARS & DOWEL BARS

				416.0610	416.0620	
STATION	ΤO	O STATION	LOCATION	DRILLED	DRILLED	
317112011	STATION TO STATION		200,112011	TIE BARS	DOWEL BARS	
				EACH	EACH	
CATEGORY	001	0				
8+70	-	8+75	LAWE ST	3	14	
11+14	-	11+56	LAWE ST	17		
11+14		TT+30	LAWE 31	т/		

TOTALS 20 14

PROJECT NO: 4984-08-71 HWY: LAWE STREET COUNTY: OUTAGAMIE MISCELLANEOUS QUANTITIES SHEET E 3.02

Δ	C	D	н	Δ	ı	т	T	C	I	т	F	v	C
_	2	Е	п	_	_	_	_	_		_	_	×	3

			455.0105	455.0605	460.1101	465.0120				
STATION	то	STATION	DIR	LOCATION	ASPHALTIC MATERIAL PG58-28	TACK COAT	HMA PAVEMENT TYPE E-1	ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES	COMMENTS	
					TON	GAL	TON	TON		
CATEGORY	0010	0								
8+88	-	9+12	LT	LAWE ST		1	4	0	EAGLE FLATS	
8+75	-	9+35	RT	LAWE ST		8		22	PARKING LOT	
10+53	-	11+14		LAWE ST	5	14	87	2	EXCLUDES RR CROSSING PANEL AREAS	

TOTALS 5 22 90 24

CONCRETE DRIVEWAY & CONCRETE SIDEWALK

					416.0170	602.0410	SPV.0165.02	602.0515
							REINFORCED	CURB RAMP
STATION TO		STATION	DIR	LOCATION	CONCRETE	CONCRETE	CONCRETE	DETECTABLE
STATION	STATION TO STATE		DIK	LOCATION	DRIVEWAY	SIDEWALK	SIDEWALK	WARNING FIELD
					7-INCH	5-INCH	5-INCH	NATURAL PETINA
					SY	SF	SF	SF
CATEGORY	001	0						
8+75	_	9+47	LT	LAWE ST		232	83	16
8+75	_	9+47	RT	LAWE ST	38		83	
10+52	_	10+65	LT	LAWE ST			72	8
10+52	-	10+62	RT	LAWE ST			55	8
11+14	-	11+34	LT	LAWE ST		105		8
11+14	-	11+56	RT	LAWE ST		210		8

TOTALS 38 547 293 48

CONCRETE CURB AND GUTTER

					601.0405	601.0409	601.0411	601.0452
								INTEGRAL
STATION	то	STATION	DIR	LOCATION	18-INCH	30-INCH	30 INCH	30 INCH
					TYPE A	TYPE A	TYPE D	TYPE D
					LF	LF	LF	LF
CATEGORY	001	0						
8+70	-	9+32	LT	LAWE ST	56			
9+32	-	9+47	LT	LAWE ST				15
8+75	-	9+47	RT	LAWE ST				72
9+28	-	9+40	RT	LAWE ST			35	
10+52	-	10+65	LT	LAWE ST				12
10+52	-	10+62	RT	LAWE ST				10
11+14	-	11+56	RT	LAWE ST		42		

TOTALS 56 42 35 109

STORM SEWER

				608.0312 STORM SEWER PIPE	SPV.0090.06	611.0624	611.3230	
STRUCT NUMBER	STATION	DIR	LOCATION	REINFORCED CONCRETE CLASS III 12-INCH	STORM SEWER PIPE PVC 10-INCH	INLET COVERS TYPE H	INLETS 2X3-FT	COMMENTS
				LF	LF	EA	EA	
CATEGORY	0010							
L-57								
	STRUCTU	RE L-57A TO	L-57	6				PLACE THRU ABUTMENT WALL
L-57A	10+57	15.5' LT	LAWE ST			1	1	
	STRUCTUE	RE L-57B TO	L-57A	31				
L-57B	10+57	15.5' RT	LAWE ST			1	1	
L-96								
STRUCTURE L-96A TO L-96			18			PLACE THRU EXISTING OPENING IN ABUTMENT WALL		
L-96A	9+32	15.5' LT	LAWE ST			1	1	
	STRUCTUR	RE L-96B TO	L-96A		31			
L-96B	9+32	15.5' RT	LAWE ST			1	1	DRIVEWAY LOCATION - CURB PLATE REQUIRED

TOTALS 37 49 4 4

ADJUSTING INLET COVERS

		611.8115						
DIR	LOCATION							
		EA						
CATEGORY 0010								
38' RT	LAWE ST	1						
	0010	0010						

TOTAL 1

PROJECT NO: 4984-08-71 HWY: LAWE STREET COUNTY: OUTAGAMIE MISCELLANEOUS QUANTITIES SHEET E 3.03

				625.0100	628.1504	628.1520	628.2006	628.7005	628.7010	629.0210	630.0140	630.0200	
STATION	то	STATION	LOCATION	TOPSOIL	SILT FENCE	SILT FENCE MAINTENANCE	EROSION MAT URBAN CLASS 1 TYPE A	INLET PROTECTION TYPE A	INLET PROTECTION TYPE B	FERTILIZER TYPE B	SEEDING MIXTURE NO. 40	SEEDING TEMPORARY	COMMENTS
				SY	LF	LF		EA	EA	CWT	LB	LB	
CATEGORY	0010)											
8+75	-	9+47	LAWE ST	72			72	2	3	0.05	1.3	1.0	DO NOT ARRIV FERTILIZED
10+53	-	11+56	LAWE ST	117			117	2	2	0.07	2.1	1.6	DO NOT APPLY FERTILIZER
	UND	ISTRIBUTE)	47	200	200	47			0.03	1.0	0.7	WITHIN 20' OF WATERWAY

TOTALS 236 200 200 236 4 5 0.15 4.4 3.3

CONSTRUCTION STAKING

		650.4000	650.4500	650.5000	650.5500	650.6500	650.7000	650.9910	650.9920
STATION TO STATION	LOCATION	STORM SEWER	SUBGRADE	BASE	CURB AND GUTTER	STRUCTURE LAYOUT P-44-718	CONCRETE PAVEMENT	SUPPLEMENTAL CONTROL	SLOPE STAKES
		EA	LF	LF	LF	LS	LF	LS	LF
CATEGORY 0010									
8+75 - 9+47	LAWE ST		72		57		72		72
10+53 - 11+14	LAWE ST	2	61	51			11		61
CATEGORY 0020			-						
	P-44-718					1			

TOTALS 2
PAVEMENT MARKING

				646.0106	647.0110	
STATION - STATION		STATION	LOCATION	EPOXY 4-INCH YELLOW	RAILROAD CROSSING EPOXY	
				LF	EACH	REMARKS
ATEGORY	0010)				
8+75	-	11+14	LAWE ST	428		DOUBLE CENTERLINE
8+96	-	10+44	LAWE ST		1	RR XING

TOTALS 428 2

LAWE ST

11+27 - 13+27

SAWING

					690.0150	690.0250
STATION	то	STATION	DIR	LOCATION	ASPHALT	CONCRETE
					LF	LF
CATEGORY	001	0				
8+80	-	8+75	LT	LAWE ST	24	8
	8+75	5		LAWE ST		25
8+75	-	9+20	RT	LAWE ST	70	
11+14	-	11+56	RT	LAWE ST		47
1	1+3	4	LT	LAWE ST		5

TOTALS 94 85

133

RR XING

REMOVING TYPE II SIGNS AND REMOVING SMALL SIGN SUPPORTS

133

83 1

			638.2602	638.3000
			REMOVING	REMOVING
			SIGNS	SMALL SIGN
SIGN		SIGN	TYPE II	SUPPORTS
NO.	LOCATION	CODE	EACH	EACH
CATEGORY	0010			
R101	LAWE ST AT NEWBERRY	W10-1	1	1
	п	R8-3A	1	
R102	LAWE ST SOUTH OF POWER CANAL	R12-5	1	1
R103	LAWE ST NORTH OF POWER CANAL	R12-5	1	1
R104	LAWE ST NORTH OF SOUTH ISLAND ST	W10-1	1	1
	п	R8-3A	1	

TOTALS 6 4

PROJECT NO: 4984-08-71 HWY: LAWE STREET COUNTY: OUTAGAMIE MISCELLANEOUS QUANTITIES SHEET E 3.04

51 57 1

TRAFFIC CONTROL AND DETOUR SIGN SUMMARY

					643	.0900	643.	. 3000	643.	.0420	643	.0705	
				APPROX.									
				SERVICE					TRAFFIC CONTROL		TRAFFIC CONTROL		
SIGN		SIGN	SIZE	PERIOD	TRAFFIC	CONTROL	TRAFFIC	CONTROL		DES TYPE		LIGHTS	
				135	SI	IGNS	DETOUR	R SIGNS	I	II	TYF	PE A	
NO.	LOCATION	CODE	WXH	DAYS	NO.	DAYS	NO.	DAYS	NO.	DAYS	EACH	DAYS	REMARKS
CATEGORY	0010												
1	LAWE ST AT COLLEGE AVE	R11-3B	60 x 30	135	1	135			1	135	2	270	
		SP-1	30 X 6	135			1	135					
		M4-9R	30 X 24	135			1	135					
		SP-2	30 X 30	135			1	135					
2	LAWE ST AT WASHINGTON ST	w20-2	48 X 48	135			1	135					
		SP-1	30 X 6	135			1	135					
2A	LAWE ST AT WASHINGTON ST	W12-2	36 X 36	135			1	135					
		wo57-52	36 X 24	135			1	135					1/4 MILE AHEAD
3	LAWE ST AT FRANKLIN ST	w20-3	48 X 48	135	1	135							
4	COLLEGE AVE AT LAWE ST	M4-8A	24 X 18	135			1	135					
5	COLLEGE AVE AT DREW ST	SP-1	30 X 6	135			1	135					
		M4-9L	30 X 24	135			1	135					
6	DREW ST AT COLLEGE AVE	SP-1	30 X 6	135			1	135					
		M4-9R	30 X 24	135			1	135					
7	WATER ST AT OLDE ONEIDA ST	SP-1	30 X 6	135			1	135					
		M4-9L	30 X 24	135			1	135					
8	OLDE ONEIDA ST AT WATER ST	SP-1	30 X 6	135			1	135					
		M4-9R	30 X 24	135			1	135					
9	OLDE ONEIDA ST AT E. SOUTH RIVER ST	SP-1	30 X 6	135			1	135					
		M4-9L	30 X 24	135			1	135					
10	E. SOUTH RIVER ST AT OLDE ONEIDA ST	SP-1	30 X 6	135			1	135					
		M4-9R	30 X 24	135			1	135					
11	LAWE ST SOUTH PROJECT LIMITS	R11-2B	48 × 30	135	2	270			5	675	10	1,350	
12	E. SOUTH RIVER ST AT LAWE ST	M4-8A	24 X 18	135			1	135					
13	LAWE ST AT MCKINLEY ST	w20-3	48 × 48	135	1	135							
14	LAWE ST AT LINCOLN ST	w20-2	48 × 48	135			1	135					
		SP-1	30 X 6	135			1	135					
14A	LAWE ST AT LINCOLN ST	w12-2	36 X 36	135			1	135					
		wo57-52	36 X 24	135			1	135					1 MILE AHEAD

PROJECT NO: 4984-08-71 HWY: LAWE STREET COUNTY: OUTAGAMIE MISCELLANEOUS QUANTITIES SHEET E 3.04

TRAFFIC CONTROL AND DETOUR SIGN SUMMARY CONTINUED

				APPROX.	643	.0900	643	. 3000	643	.0420	643.	0705	
SIGN		SIGN	SIZE	SERVICE PERIOD 135		CONTROL		CONTROL R SIGNS	BARRICA	CONTROL DES TYPE	WARNING	CONTROL G LIGHTS PE A	
NO.	LOCATION	CODE	WXH	DAYS	NO.	DAYS	NO.	DAYS	NO.	DAYS	EACH	DAYS	REMARKS
15	LAWE ST AT E. SOUTH RIVER ST	R11-3B	60 X 30	135	1	135			1	135	2	270	
		SP-1	30 X 6	135			1	135					
		M4-9L	30 X 24	135			1	135					
16	LAWE ST NORTH PROJECT LIMITS	R11-2B	48 X 30	135	2	270			5	675	10	1,350	
17	LAWE ST SOUTH OF FOX RIVER	R11-3B	60 x 30	135	1	135			1	135	2	270	
18	LAWE ST NORTH OF FOX RIVER	w20-3	48 X 48	135	1	135							
	SOUTH ISLAND ST			135	1	135							
	EAGLE FLATS PARKWAY			135	2	270			4	540	8	1,080	
				SUBTOTAL		1,755		3,645		2,295		4,590	
	UNDISTRIBUTED					176		365		230		459	
				TOTALS	<u></u>	1,931	·	4,010		2,525		5,049	

RAILING STEEL PEDESTRIAN TYPE C3 SPECIAL

					SPV.0090.05	
					RAILING STEEL	
STATION	TO	STATION	DIR	LOCATION	PEDESTRIAN TYPE C3	COMMENTS
					SPECIAL	
					LF	
CATEGORY	0010	0				
9+30	_	9+47	LT	LAWE ST	10	SW QUANDRANT OF THE BRIDGE APPROACHES
9+30	_	9+47	RT	LAWE ST	15	SE QUANDRANT OF THE BRIDGE APPROACHES

TOTAL 25

WATERMAIN

STATION TO	STATION		LOCATION	SPV.0060.01	SPV.0060.02	SPV.0060.03	SPV.0060.04	SPV.0090.01	SPV.0090.02	SPV.0090.03	SPV.0090.04
		DIR		ADJUSTING	RELOCATING	AUXILIARY		WATER MAIN	WATER MAIN		STEEL
				WATER VALVE	EXISTING	HYDRANT	BENDS	PVC C900	PRE-INSULATED	HYDRANT	CASING
				BOX	HYDRANT	VALVE	12-INCH	12-INCH	PVC C900	LEADS	PIPE
						6-INCH			12-INCH		24-INCH
				EACH	EACH	EACH	EACH	LF	LF	LF	LF
CATEGORY 003	0										
9+18 -	11+27	RT	LAWE ST	2	1	1	6	105	110	10	80
			TOTALS	2	1	1	6	105	110	10	80

PROJECT NO: 4984-08-71 HWY: LAWE STREET COUNTY: OUTAGAMIE MISCELLANEOUS QUANTITIES SHEET E 3.04

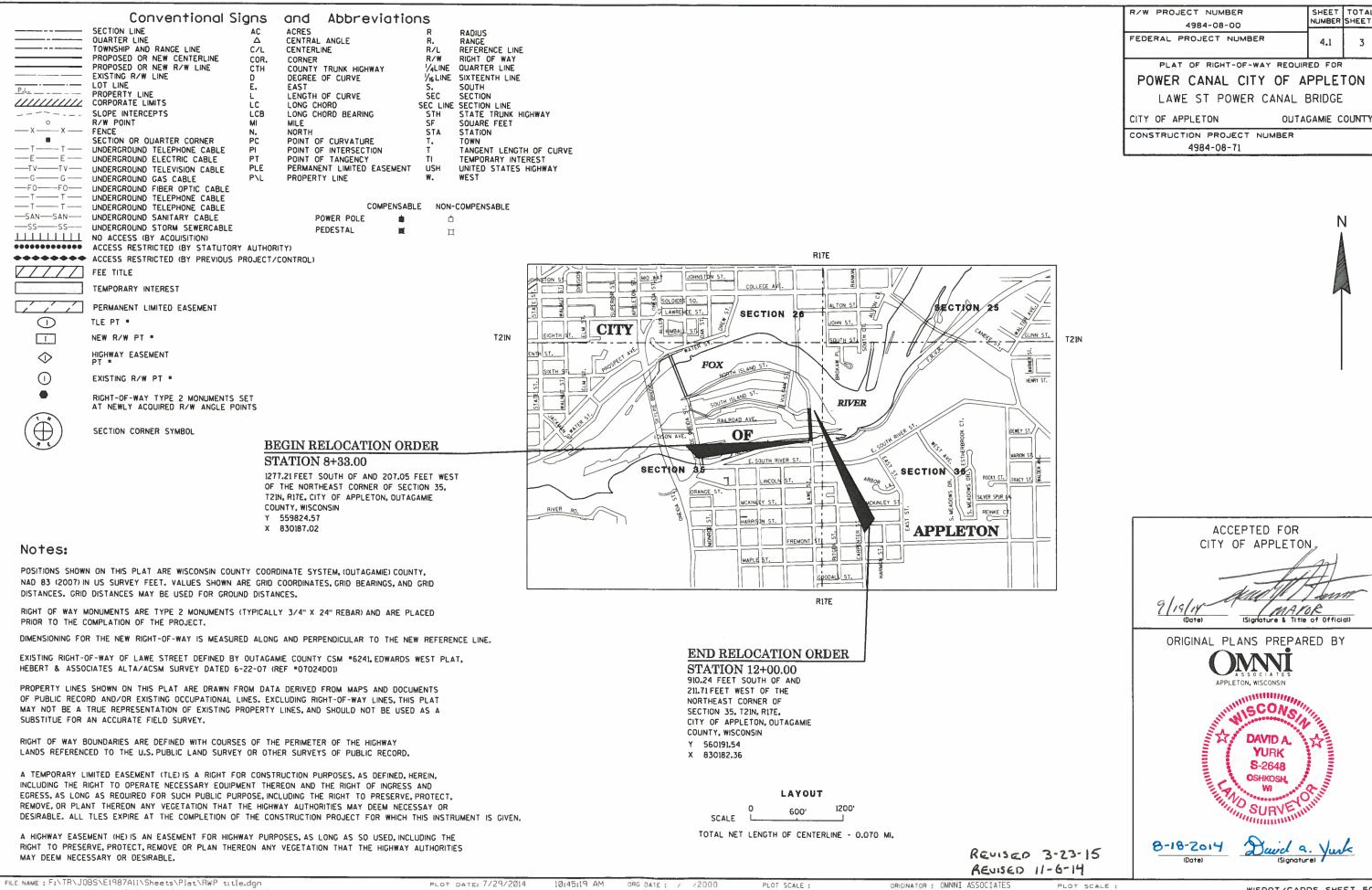
FILE NAME: F:\TR\JOBS\E1987A11\Quantity\030201_mq_ppt

ORIGINATOR: OMNNI ASSOCIATES

ORIG. DATE: 12/03/2013

REV. DATE: 9/26/13

PRINT DATE: September 29, 2015

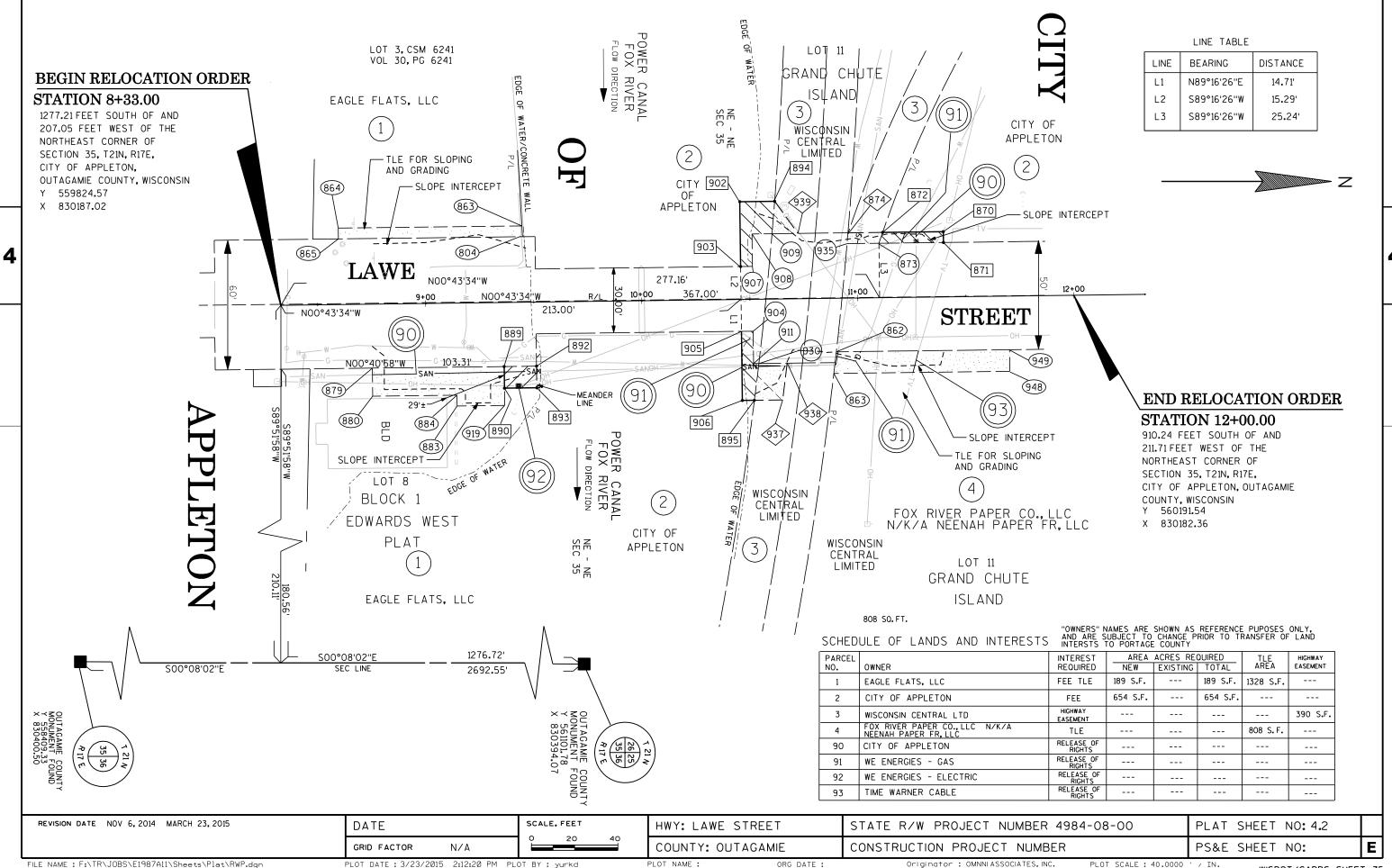


WISDOT/CADDS SHEET 50C

SHEET TOTAL

NUMBER SHEET

Ν



FILE NAME: F:\TR\JOBS\E1987A11\Sheets\Plat\RWP.dgn

PLOT DATE: 3/23/2015 2:12:20 PM PLOT BY: yurkd

PLOT NAME :

Originator: OMNNI ASSOCIATES, INC.

PLOT SCALE: 40.0000 ' / IN.

WISDOT/CADDS SHEET 75

TLE STATION OFFSET TABLE

PARCEL	1 WEST TLE	
PT#	STA	OFFSET
804	9+45.20	30.37'
863	9+44.38	35.37'
864	8+60.00	35.43'
865	8+60.00	30.43'
PARCEL	1EAST TLE	
879	8+75.00	29.58'
880	8+75.00	42.58'
883	9+14.00	47.60'
884	9+14.00	42.60'
889	9+36.00	29 . 63'
919	9+36.00	47.62'
PARCEL	4	
862	10+89.80	24.74'
863	10+88.52	37.74'
948	11+70.00	34.80'
949	11+70.00	24.80'

RIGHT-OF-WAY LINE TABLE

PARCEL 1		
LINE	BEARING	DISTANCE
889-890	N89°16' 26"E	10.00'
890-893	N00°40'58''W	14.95'
893-892	S89°19'12''W	10.00'
892-889	S00°40'58''E	14.96'
PARCEL 2	EAST R/W	
905-906	N89°16'26"E	32.00'
906-895	NOO°40'58''W	5.59'
895-930	SEE CURVE	_
930-911	S00°40'58''E	2.41'
911-904	S89°19'02"W	15.00'
904-905	S00°40'58''E	5.43'
PARCEL 2	WEST R/W	
903-902	S89°16'26''W	30.00'
902-894	NOO°40'58''W	16.12'
894-909	SEE CURVE	-
909-908	S00°40'58''E	9.25'
908-907	N89°19'02''E	15.00'
907-903	S00°40'58''E	5.45'
PARCEL 2	NORTH WEST	
873-872	SEE CURVE	-
872-870	NOO°43'34''W	28.07'
870-871	N89°19'02''E	5.00'
871-873	S00°40'58"E	29.84'

CURVE TABLE

CURVE	RADIUS	LENGTH	CHORD	CHORD BEARING	PARCEL
895-930	1891.50'	17.15'	17.15'	N83°03'13''W	2 & 3
894-909	1891.50'	15.06'	15.06'	S85°22'14"E	2 & 3
873-872	562.50'	5.30'	5.30'	N71°10'50''W	2 & 3
874-935	1926.50'	5.02'	5.02'	S85°10'07''E	3

HIGHWAY EASEMENT TABLE

PARCEL 3 EAST					
LINE	BEARING DISTAN				
930-938	N00°40'58''W	13.11'			
938-937	S83°05'38''E	17.15'			
937-895	S00°40'58''E	13.12'			
895-930	SEE CURVE	-			
PARCEL 3	WEST				
873-872	SEE CURVE	-			
872-874	S00°40'58''E	16.06'			
874-935	SEE CURVE	-			
935-873	N00°40'58"W 14.77				
PARCEL 3 SOUTH WEST					
894-909	SEE CURVE -				
909-939	NOO°40'58''W	12.00'			
939-894	S54°03'51''W 18.37'				

RIGHT-OF-WAY & HIGHWAY EASEMENT STATION OFFSET

	1 R/W	05565	
PT#	STA	OFFSET 29.63'	
889	9+36.00		
890	9+36.00	39.63'	
892	9+50.96	29.64	
893	9+50.95	39.64'	
PARCEI	_ 2 R/W EAS	T	
895	10+51.59	46.71'	
904	10+51.43	14.71'	
905	10+46.00	14.71'	
906	10+46.00	46.71'	
911	10+51.42	29.71'	
930	10+53.88	29.72'	
PARCEI	_ 2 R/W WES	Т	
894	10+62.12	45.28'	
902	10+46.00	45.29'	
903	10+46.00	15.29'	
907	10+51.45	15.29'	
908	10+51.46	30.29'	
909	10+60.71	30.28'	
PARCEI	2 R/W NOR	TH WEST	
870	11+40.00	30.22'	
871	11+40.00	25.22'	
872	11+11.94	30.24'	
873	11+10.16	25.24'	
PARCEI	_ 3 HIGHWAY	EASEMENT	EAST
895	10+51.59	46.71'	
930	10+53.88	29.72'	
937	10+64.71	46.72'	
938	10+66.99	29.73'	
PARCEI	_ 3 HIGHWAY	EASEMENT	WEST
872	11+11.94	30.24'	
873	11+10.16	25.24'	
874	10+95.87	30.25	
0/4		1 30.23	

SCALE, FEET REVISION DATE 11-6-14 NC 3-23-15 STATE R/W PROJECT NUMBER 4984-08-00 DATE HWY: LAWE STREET PLAT SHEET NO: 4.3 N/A PS&E SHEET NO: Ε GRID FACTOR COUNTY: OUTAGAMIE CONSTRUCTION PROJECT NUMBER N/A ORG DATE:

45.28'

30.28'

30.27'

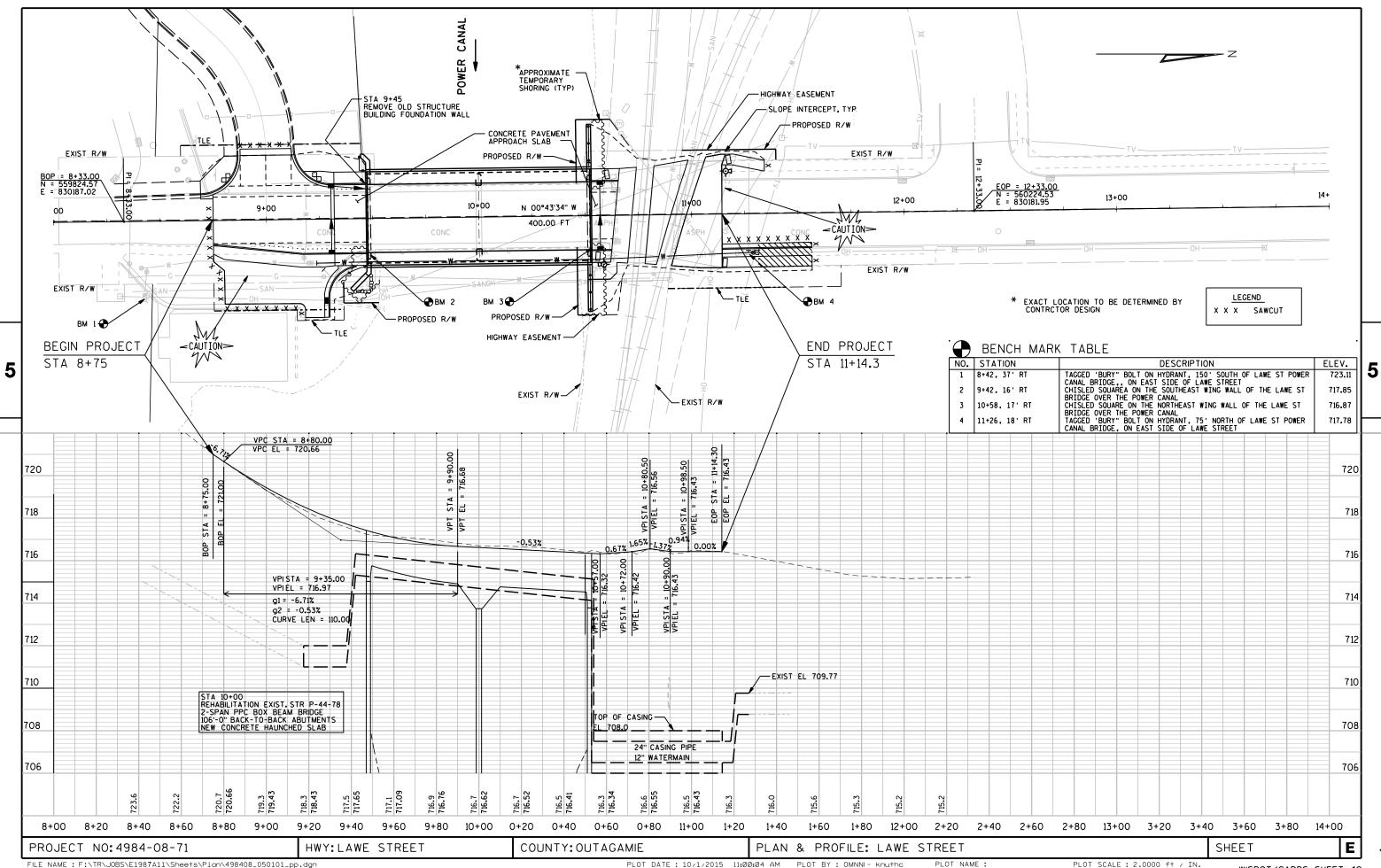
PARCEL 3 HIGHWAY EASEMENT SW

10+62.12

10+60.71

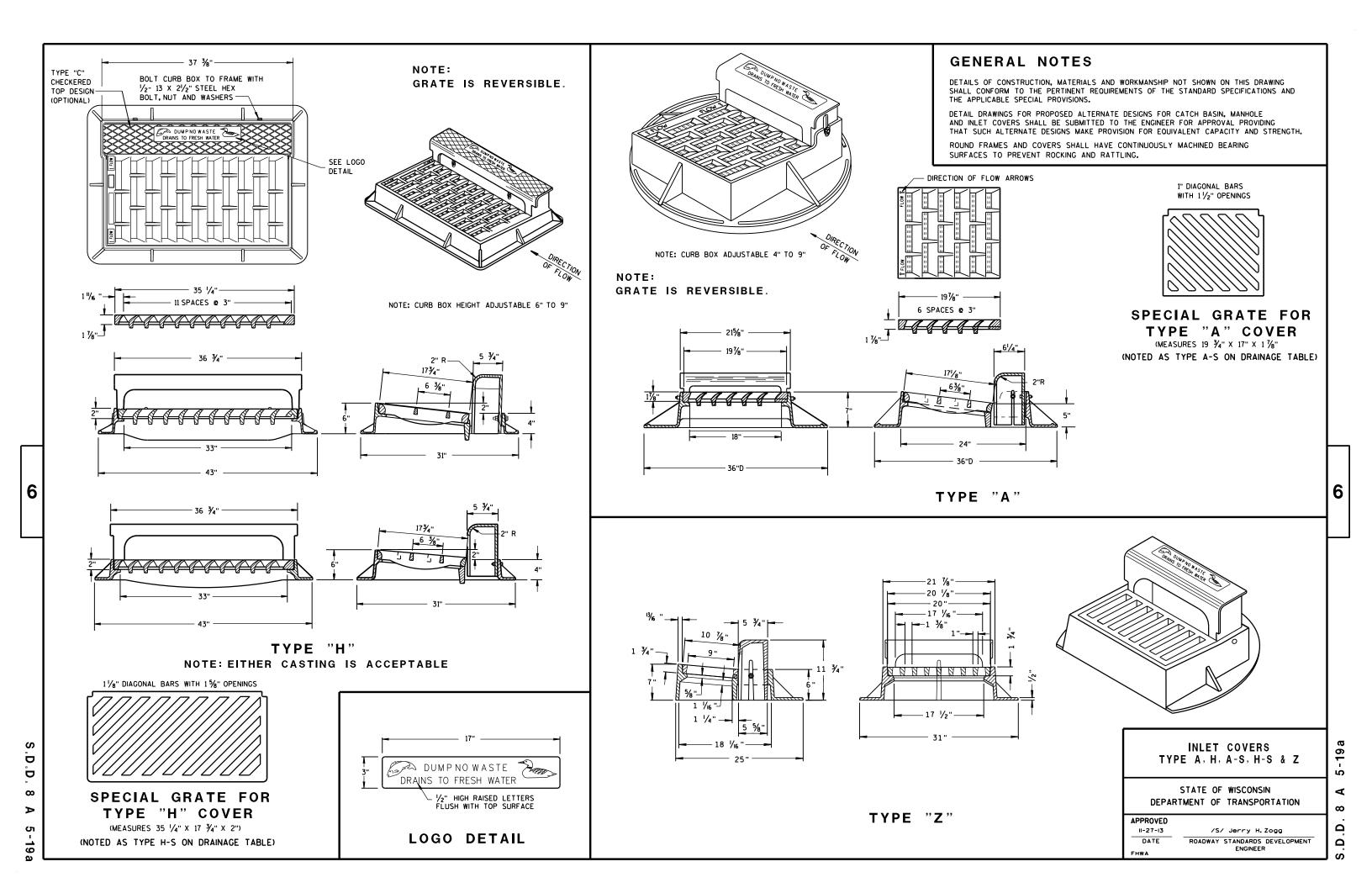
10+72.71

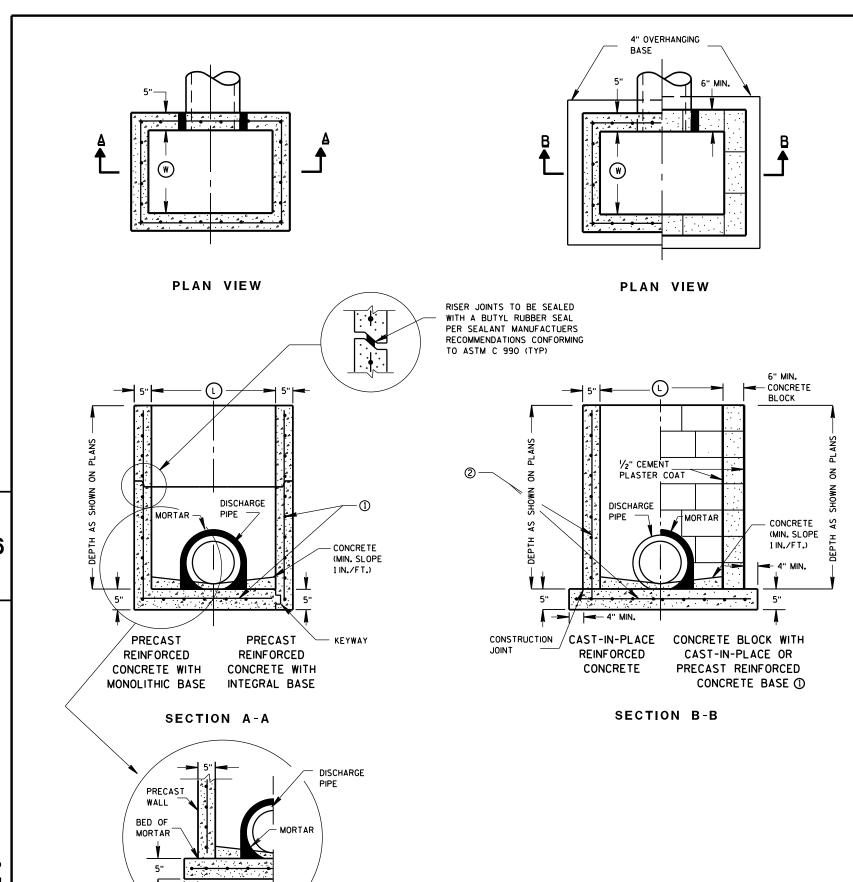
894 909



Standard Detail Drawing List

08A05-19A	INLET COVERS TYPE A, H, A-S, H-S & Z	
08C07-01	INLETS 2X2-FT, 2X2.5-FT, 2X3-FT AND 2.5X3-FT	
08D01-18	CONCRETE CURB, CONCRETE CURB AND GUTTER AND TIES	
08D05-16A	CURB RAMPS TYPES 1 AND 1-A	
08D05-16B	CURB RAMPS TYPES 2 AND 3	
08D05-16C	CURB RAMPS TYPES 4A AND 4A1	
08D05-16D	CURB RAMPS TYPE 4B AND 4B1	
08D05-16E	CURB RAMPS TYPES 5, 6, 7A, 7B & 8	
08E09-06	SILT FENCE	
08E10-02	INLET PROTECTION TYPE A, B, C AND D	
12A03-10	NAME PLATE (STRUCTURES)	
13B01-10	PAVEMENT DETAILS FOR RAILROAD APPROACH	
13B02-08A	CONCRETE BRI DGE APPROACH	
13C01-17	CONCRETE PAVEMENT LONGITUDINAL JOINTS AND TIES	
13C13-08	URBAN DOWELED CONCRETE PAVEMENT	
15C02-05A	BARRICADES AND SIGNS FOR MAINLINE CLOSURES	
15C02-05B	BARRICADES AND SIGNS FOR MAINLINE CLOSURES	
15C02-05C	DETOUR SIGNING FOR MAINLINE CLOSURES	
15C03-02	BARRI CADES AND SIGNS FOR SIDEROAD CLOSURES	
15C08-16A	PAVEMENT MARKING (MAINLINE)	
15C09-09A	SIGNING AND PAVEMENT MARKING DETAILS FOR RAILROAD-HIGHWAY GRADE CROSSI	NGS





GENERAL NOTES

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

UNLESS OTHERWISE AUTHORIZED IN WRITING BY THE ENGINEER, THE CONTRACTOR SHALL NOT ORDER AND DELIVER PRECAST INLET UNITS REQUIRED FOR THE PROJECT UNTIL A LIST OF SIZES IS FURNISHED BY THE ENGINEER.

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR UNDERGROUND DRAINAGE STRUCTURES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ALL PRECAST INLET UNITS SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF ASTM C 913.

ALL DRAINAGE STRUCTURES ARE DESIGNATED ON THE PLANS AS "MANHOLES 3X3-L", "CATCH BASINS 4-B", "INLETS 2X3-H", ETC. THE FIRST NUMBERS DESIGNATES THE SIZE OF THE STRUCTURE, AND THE FOLLOWING LETTER DESIGNATES THE TYPE OF COVER TO BE USED TO COMPRISE THE COMPLETE UNIT.

BASES SHALL BE PLACED ON A BED OF MATERIAL AT LEAST 6 INCHES IN DEPTH, WHICH MEETS THE REQUIREMENTS OF GRANULAR BACKFILL. THIS BEDDING SHALL BE COMPACTED AND PROVIDE UNIFORM SUPPORT FOR THE ENTIRE AREA OF THE BASE.

ALL BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2 INCHES CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

PRECAST REINFORCED RISERS SHALL HAVE A TONGUE AND GROOVE JOINT WITH TONGUE UP OR DOWN.

- 4" OVERHANGING BASES ARE REQUIRED FOR CAST-IN-PLACE REINFORCED CONCRETE AND CONCRETE BLOCK INSTALLATIONS.
- 4" OVERHANG IS REQUIRED WHEN SEPARATE PRECAST BASE IS PROVIDED.
- OVERHANG IS NOT REQUIRED ON PRECAST STRUCTURES WITH AN INTEGRAL OR MONOLITHIC BASE.

MAXIMUM INSIDE PIPE DIAMETER DETERMINED BY 3 INCH CLEARANCE ON EACH SIDE OF THE OUTSIDE WALL OF THE PIPE. SEE DETAIL "A". ASSUMES PIPE ENTERS PERPENDICULAR TO THE STRUCTURE.

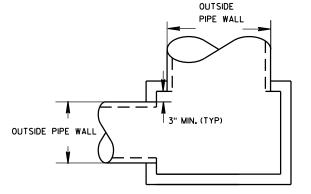
- 1) FOR PRECAST INLETS PROVIDE REINFORCING STEEL IN ACCORDANCE TO ASTM C 913.
- (2) CONTRACTOR TO PROVIDE DRAWING(S) STAMPED BY A PROFESSIONAL ENGINEER FOR STEEL REINFORCING DESIGN FOR CAST-IN-PLACE STRUCTURES.

INLET COVER MATRIX

	INLET SIZE		INLET COVER TYPE	ALL A'S	ALL B'S	BW	F	ALL H'S	s	т	v	WM
		WIDTH (W) (FT)	LENGTH (L) (FT)									
	2X2-FT	2	2	X	х				Х		Х	
ſ	2X2.5-FT	2	2.5			Х			Х	Х	Х	Х
[2X3-FT	2	3					Х				
	2.5X3-FT	2.5	3				Х					

PIPE MATRIX

	MAXIMUM INSIDE PIPE DIAMETER				
INLET SIZE	WIDTH (IN)	LENGTH (IN)			
2X2-FT	12	12			
2X2.5-FT	12	18			
2X3-FT	12	24			
2.5X3-FT	18	24			



DETAIL "A"

INLETS 2X2-FT, 2X2.5-FT, 2X3-FT AND 2.5X3-FT

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED 6/5/2012 DATE

FHWA

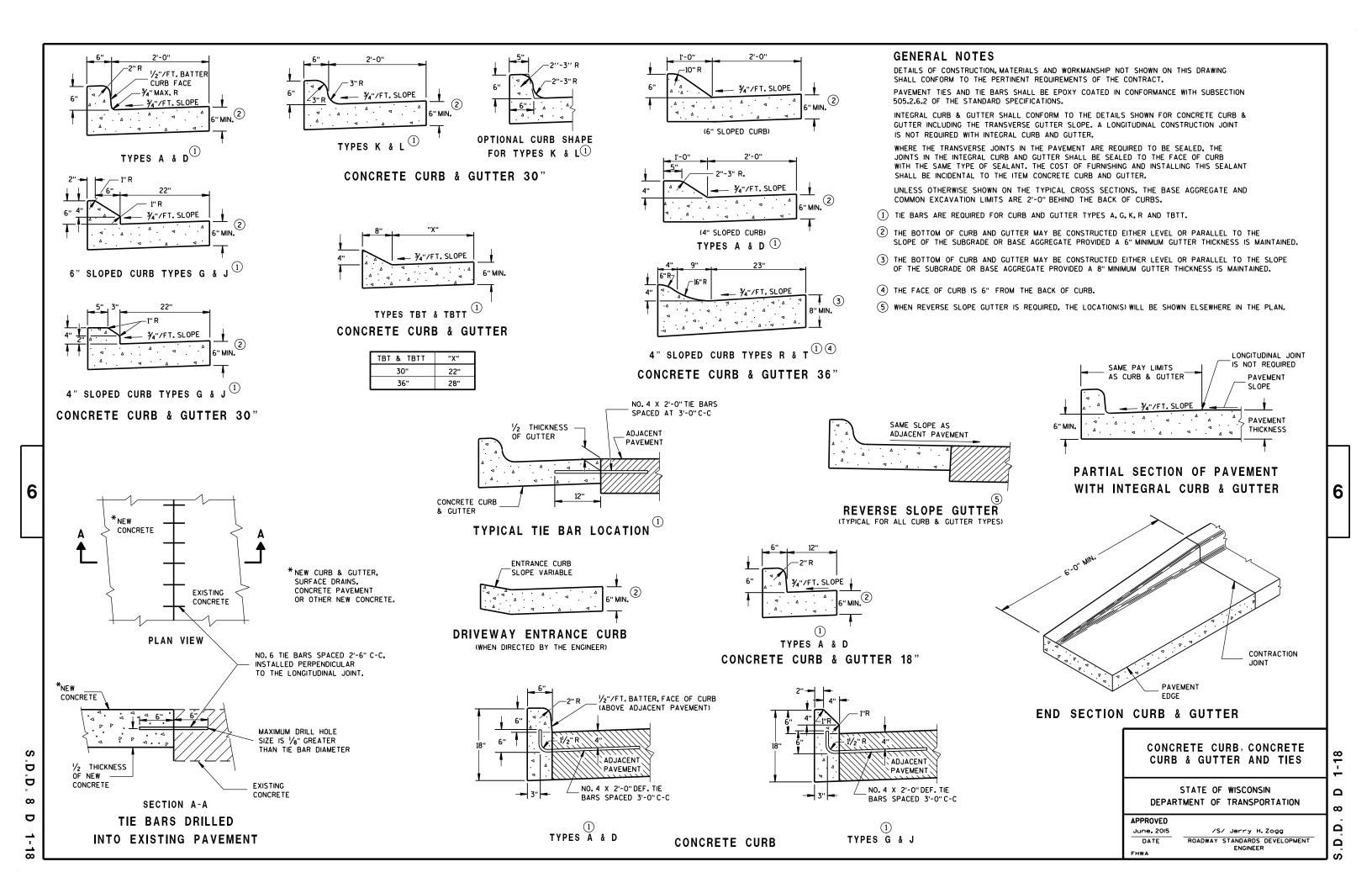
/S/ Jerry H. Zogg ROADWAY STANDARDS DEVELOPMENT

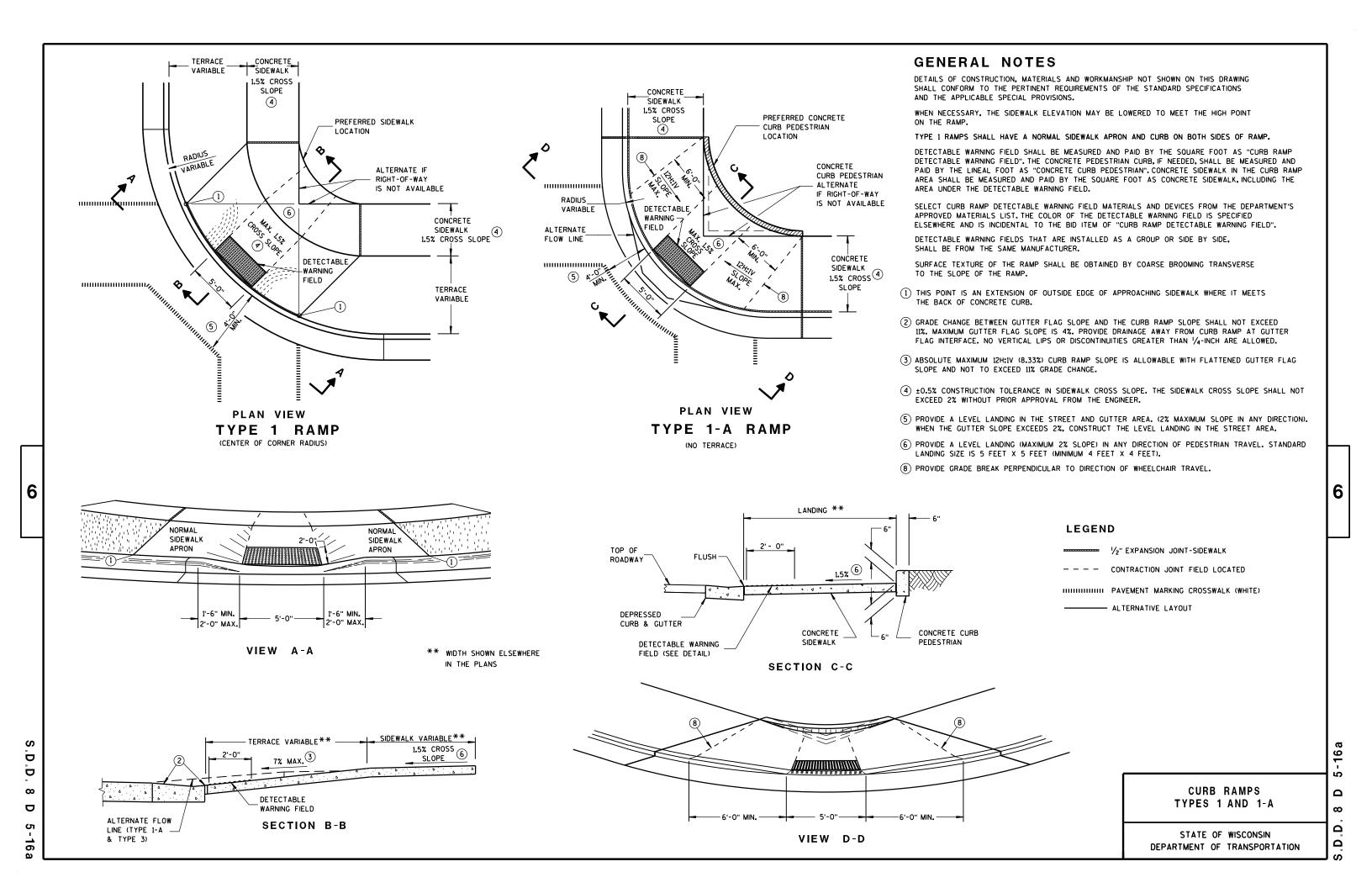
ENGINEER

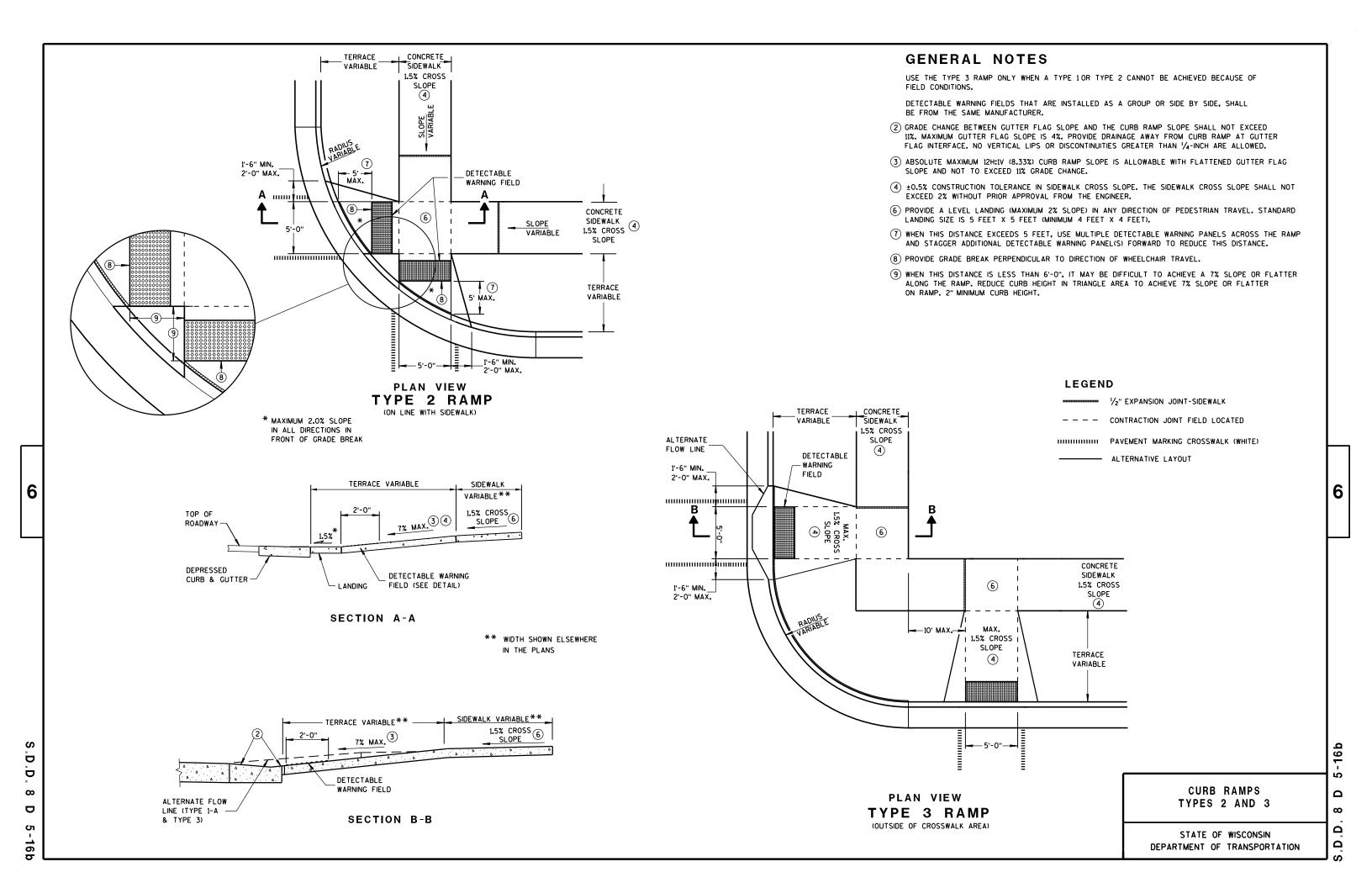
INLETS 2X2-FT, 2X2.5-FT, 2X3-FT AND 2.5X3-FT

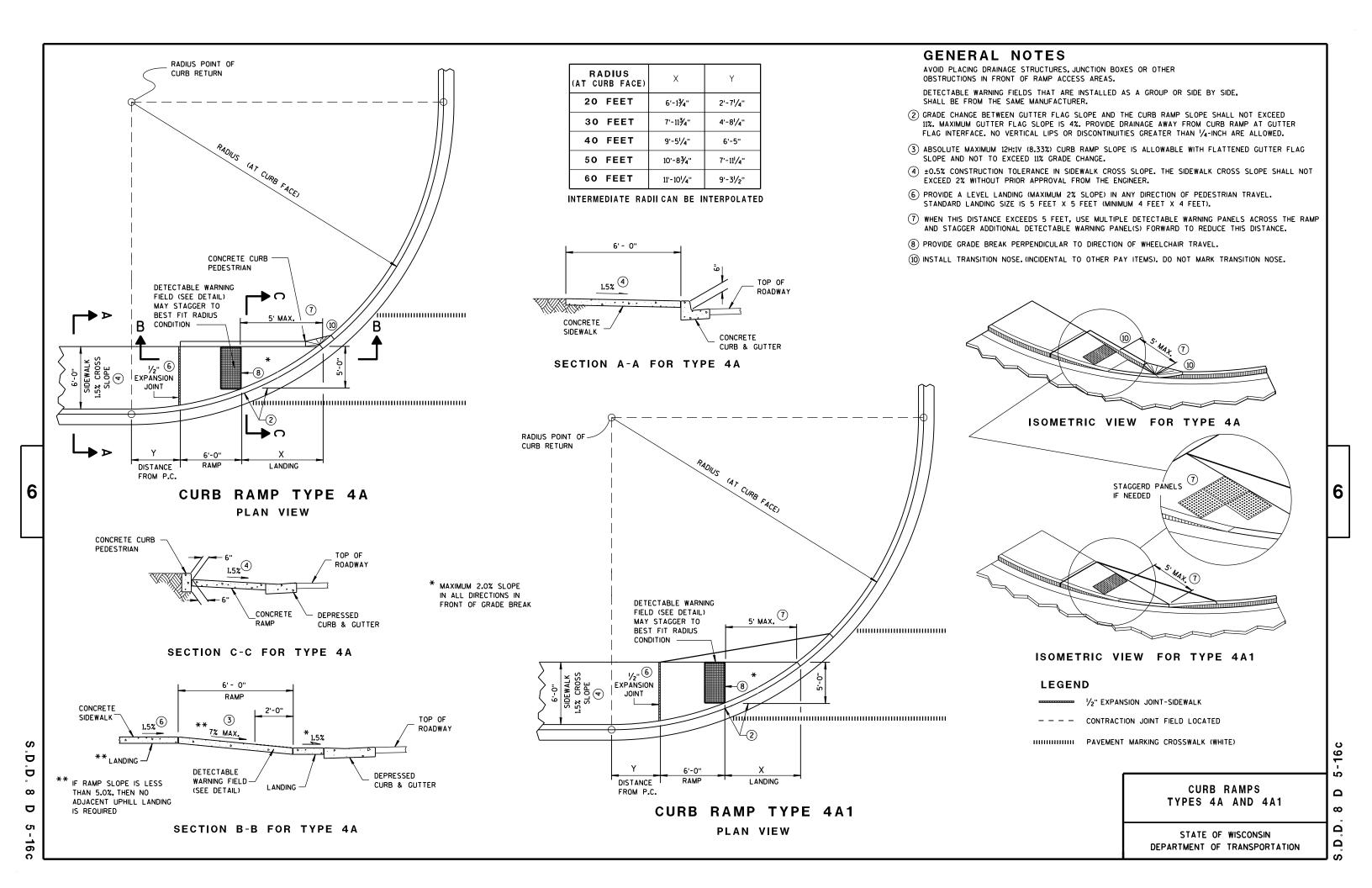
SEPARATE PRECAST REINFORCED

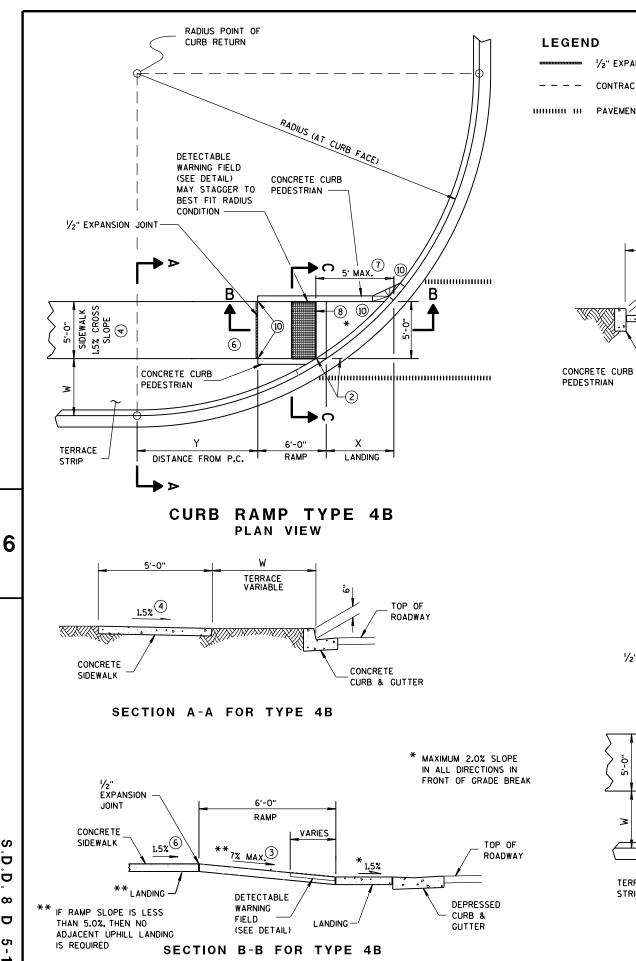
CONCRETE BASE OPTION











D

 ∞

D

16 d

W = 5' - 0" 7' - Ø" 3' - Ø" W = 4' - Ø" W = 6' - 0" RADIUS LEGEND AT CURB FACE "EXPANSION JOINT-SIDEWALK 20 FEET 4'-81/2" 3'-7" 3'-11/2" 4'-61/2" 4'-1" 7'-23/4" 8'-31/2" 9'-21/2" 5'-51/2" 6'-0" CONTRACTION JOINT FIELD LOCATED 30 FEET 6'-51/2" 5'-91/4" 5'-21/2" 4'-8¾" 7'-31/4' 8'-11'/2" 10'-7" 12'-0" 13'-31/4" HIHHHH HI PAVEMENT MARKING CROSSWALK (WHITE) 40 FEET 8'-91/2" 9'-21/2" 11'-5'/4" 13'-41/2" 15'-3/4" 16'-71/4" 50 FEET 7'-61/2" 6'-11¾" 19'-6'/4" 11'-3/4" 15'-91/2"

10'-¾"

GENERAL NOTES

12'-8¾"

11'-2'/2"

60 FEET

TOP OF

ROADWAY

TERRACE STRIP

VARIES O TO W

CONCRETE

CURB & GUTTER

5'-0" RAMP

VARIES

0 TO 6"

1.5%

SECTION C-C FOR TYPE 4B

INTERMEDIATE RADII CAN BE INTERPOLATED

7'-101/2"

22'-11/2"

20'-1¾"

AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF RAMP ACCESS AREAS. DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER.

17'-113⁄4"

8'-5¾"

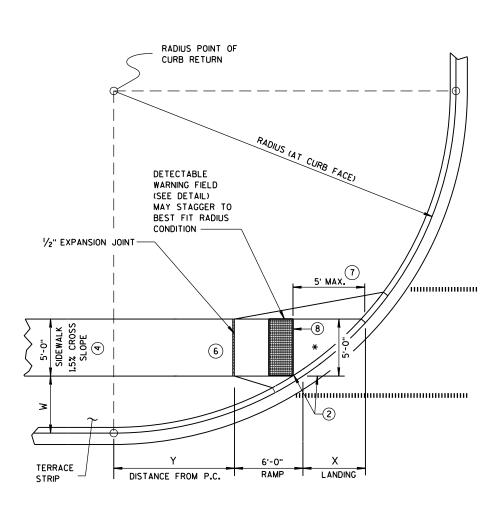
(2) GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. MAXIMUM GUTTER FLAG SLOPE IS 4%. PROVIDE DRAINAGE AWAY FROM CURB RAMP AT GUTTER FLAG INTERFACE. NO VERTICAL LIPS OR DISCONTINUITIES GREATER THAN 1/4-INCH ARE ALLOWED.

9'-21/4"

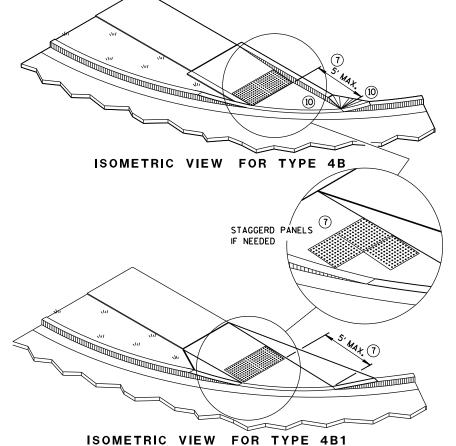
- (3) ABSOLUTE MAXIMUM 12H:1V (8.33%) CURB RAMP SLOPE IS ALLOWABLE WITH FLATTENED GUTTER FLAG SLOPE AND NOT TO EXCEED 11% GRADE CHANGE.
- 4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE, THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.
- 6 PROVIDE A LEVEL LANDING (MAXIMUM 2% SLOPE) IN ANY DIRECTION OF PEDESTRIAN TRAVEL. STANDARD LANDING SIZE IS 5 FEET X 5 FEET (MINIMUM 4 FEET X 4 FEET).

15'-61/2"

- (7) WHEN THIS DISTANCE EXCEEDS 5 FEET, USE MULTIPLE DETECTABLE WARNING PANELS ACROSS THE RAMP AND STAGGER ADDITIONAL DETECTABLE WARNING PANEL(S) FORWARD TO REDUCE THIS DISTANCE.
- (8) PROVIDE GRADE BREAK PERPENDICULAR TO DIRECTION OF WHEELCHAIR TRAVEL.
- (I) INSTALL TRANSITION NOSE. (INCIDENTAL TO OTHER PAY ITEMS). DO NOT MARK TRANSITION NOSE.



CURB RAMP TYPE 4B1 PLAN VIEW

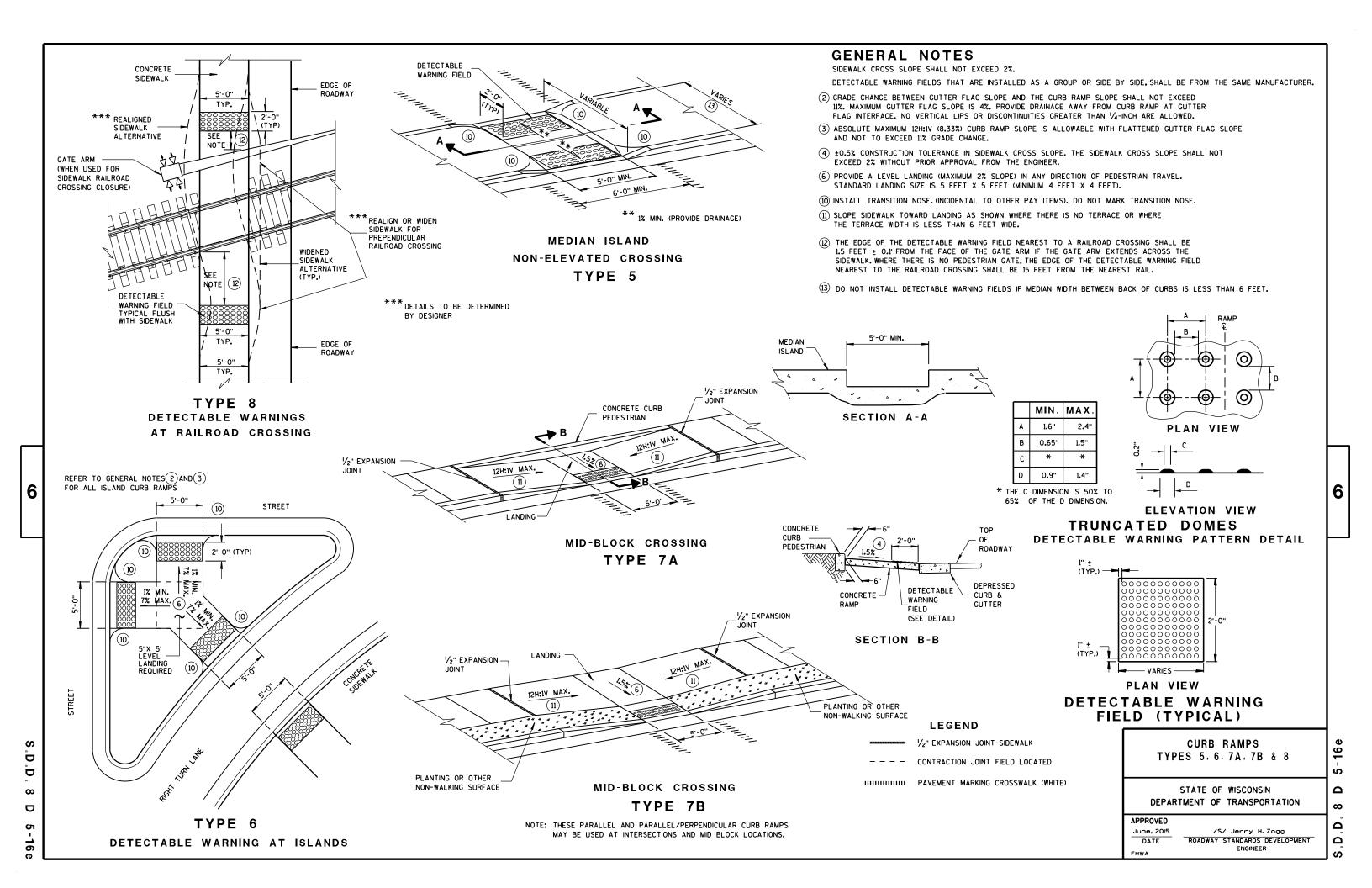


CURB RAMPS TYPE 4B AND 4B1

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

2 Ω ∞ Ω

Ω



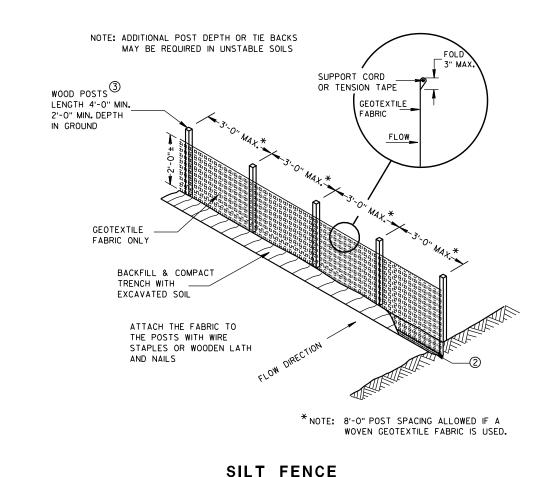
TYPICAL APPLICATION OF SILT FENCE

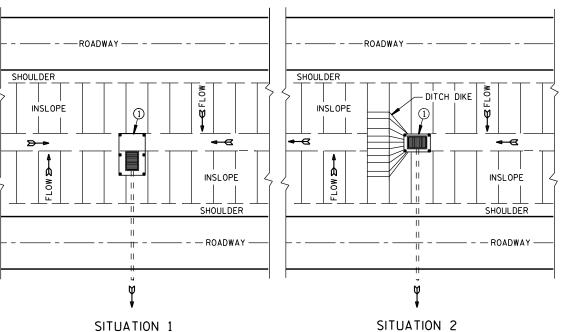
6

b

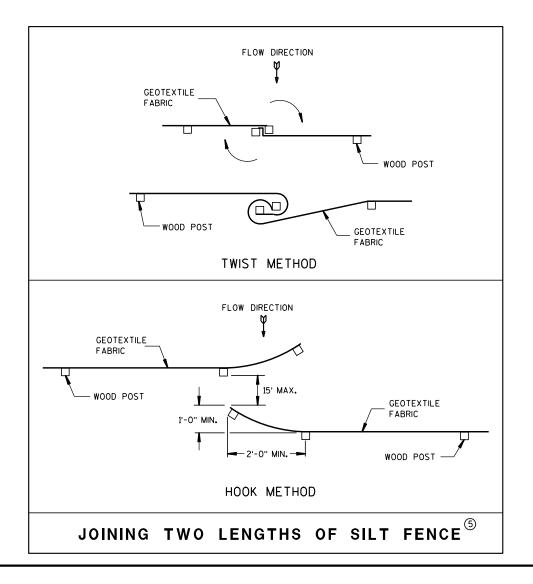
Ō

Ш





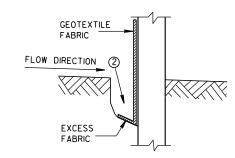
PLAN VIEW SILT FENCE AT MEDIAN SURFACE DRAINS



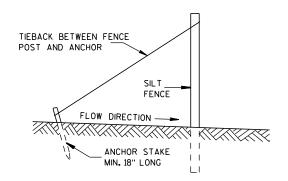
GENERAL NOTES

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 Ω

6

တ

 ∞





INLET PROTECTION, TYPE A

GENERAL NOTES

INLET PROTECTION DEVICES SHALL BE MAINTAINED OR REPLACED AT THE DIRECTION OF THE ENGINEER.

MANUFACTURED ALTERNATIVES APPROVED AND LISTED ON THE DEPARTMENT'S EROSION CONTROL PRODUCT ACCEPTABILITY LIST MAY BE

WHEN REMOVING OR MAINTAINING INLET PROTECTION, CARE SHALL BE TAKEN SO THAT THE SEDIMENT TRAPPED ON THE GEOTEXTILE FABRIC DOES NOT FALL INTO THE INLET. ANY MATERIAL FALLING INTO THE INLET SHALL BE REMOVED IMMEDIATELY.

- 1) FINISHED SIZE, INCLUDING FLAP POCKETS WHERE REQUIRED, SHALL EXTEND A MINIMUM OF 10" AROUND THE PERIMETER TO FACILITATE MAINTENANCE OR REMOVAL.
- (2) FOR INLET PROTECTION, TYPE C (WITH CURB BOX), AN ADDITIONAL 18" OF FABRIC IS WRAPPED AROUND THE WOOD AND SECURED WITH STAPLES. THE WOOD SHALL NOT BLOCK THE ENTIRE HEIGHT OF THE CURB BOX OPENING.
- (3) FLAP POCKETS SHALL BE LARGE ENOUGH TO ACCEPT WOOD 2X4.



INLET PROTECTION, TYPE C (WITH CURB BOX)

INSTALLATION NOTES

TYPE B & C

TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE.

THE CONTRACTOR SHALL DEMONSTRATE A METHOD OF MAINTENANCE, USING A SEWN FLAP, HAND HOLDS OR OTHER METHOD TO PREVENT ACCUMULATED SEDIMENT FROM ENTERING THE INLET.

TYPE D

DO NOT INSTALL INLET PROTECTION TYPE D IN INLETS SHALLOWER THAN 30", MEASURED FROM THE BOTTOM OF THE INLET TO THE TOP OF THE GRATE.

TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE.

THE INSTALLED BAG SHALL HAVE A MINIMUM SIDE CLEARANCE, BETWEEN THE INLET WALLS AND THE BAG, MEASURED AT THE BOTTOM OF THE OVERFLOW HOLES, OF 3". WHERE NECESSARY THE CONTRACTOR SHALL CINCH THE BAG, USING PLASTIC ZIP TIES, TO ACHIEVE THE 3" CLEARANCE, THE TIES SHALL BE PLACED AT A MAXIMUM OF 4" FROM THE BOTTOM OF THE BAG.

INLET PROTECTION TYPE A, B, C, AND D

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED

10/16/02

/S/ Beth Cannestra CHIEF ROADWAY DEVELOPMENT ENGINEER 6

0

ш

 ∞





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

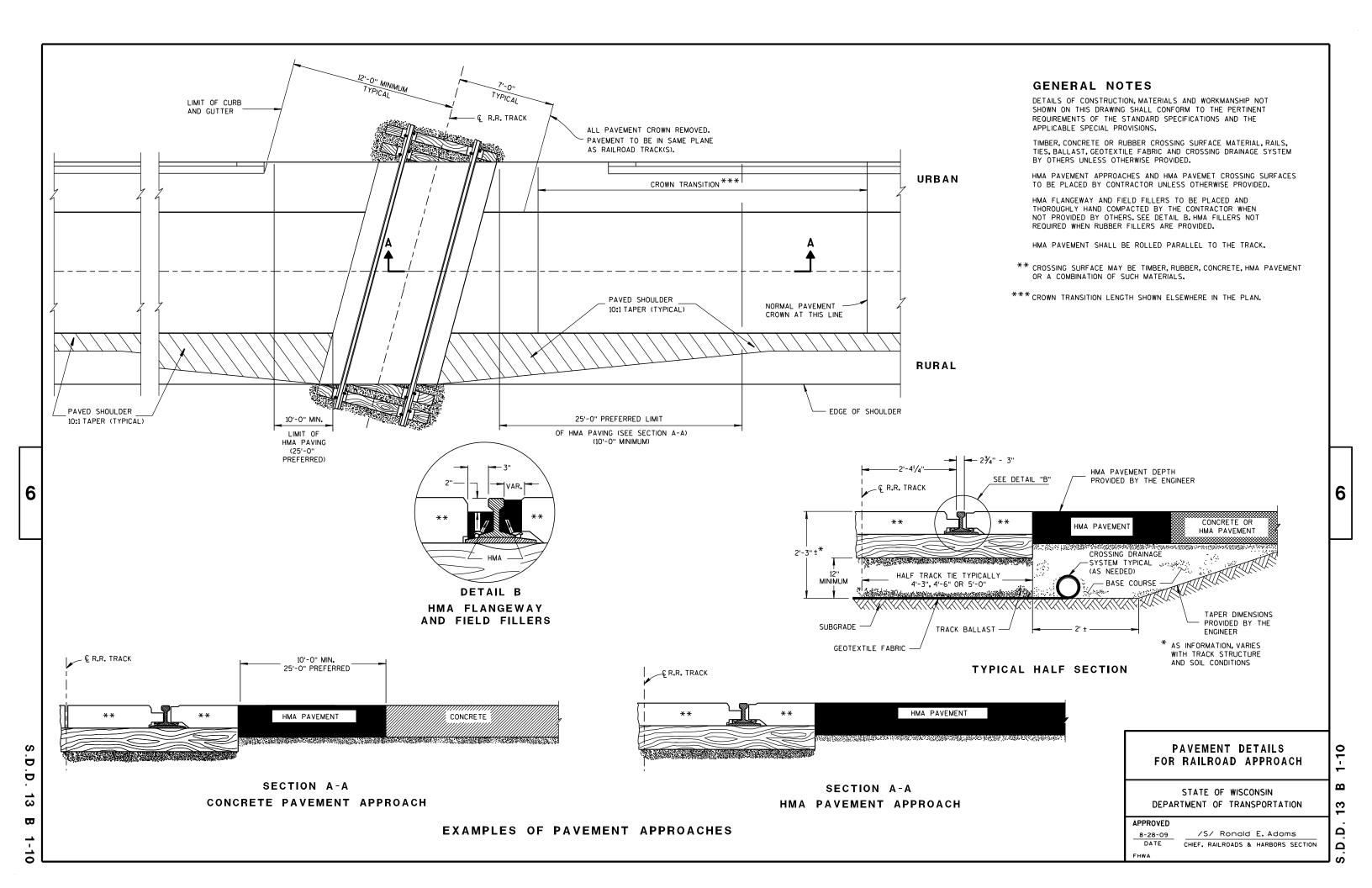
|--|

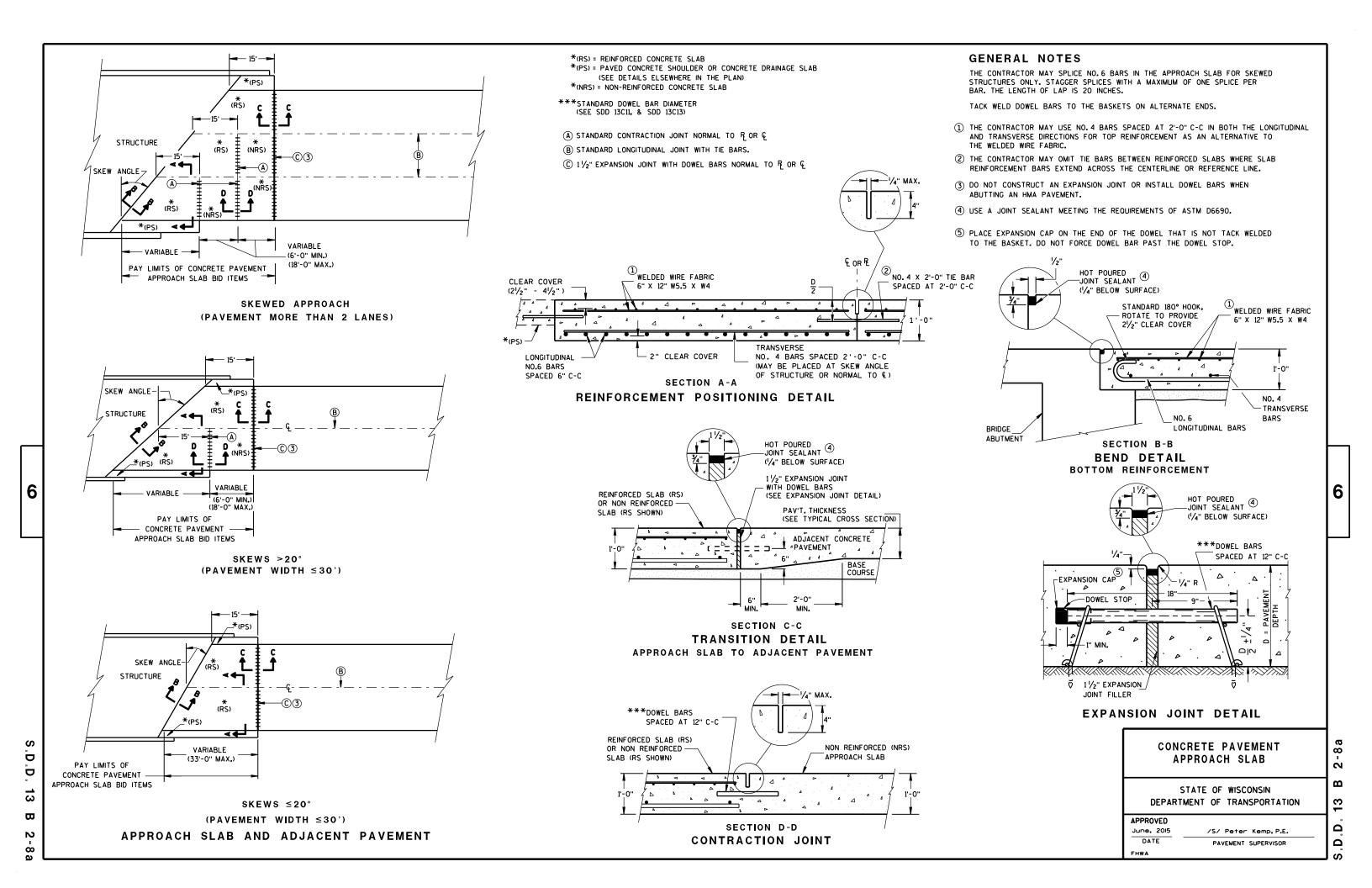
3/26/IO /S/ SCOT BECKET

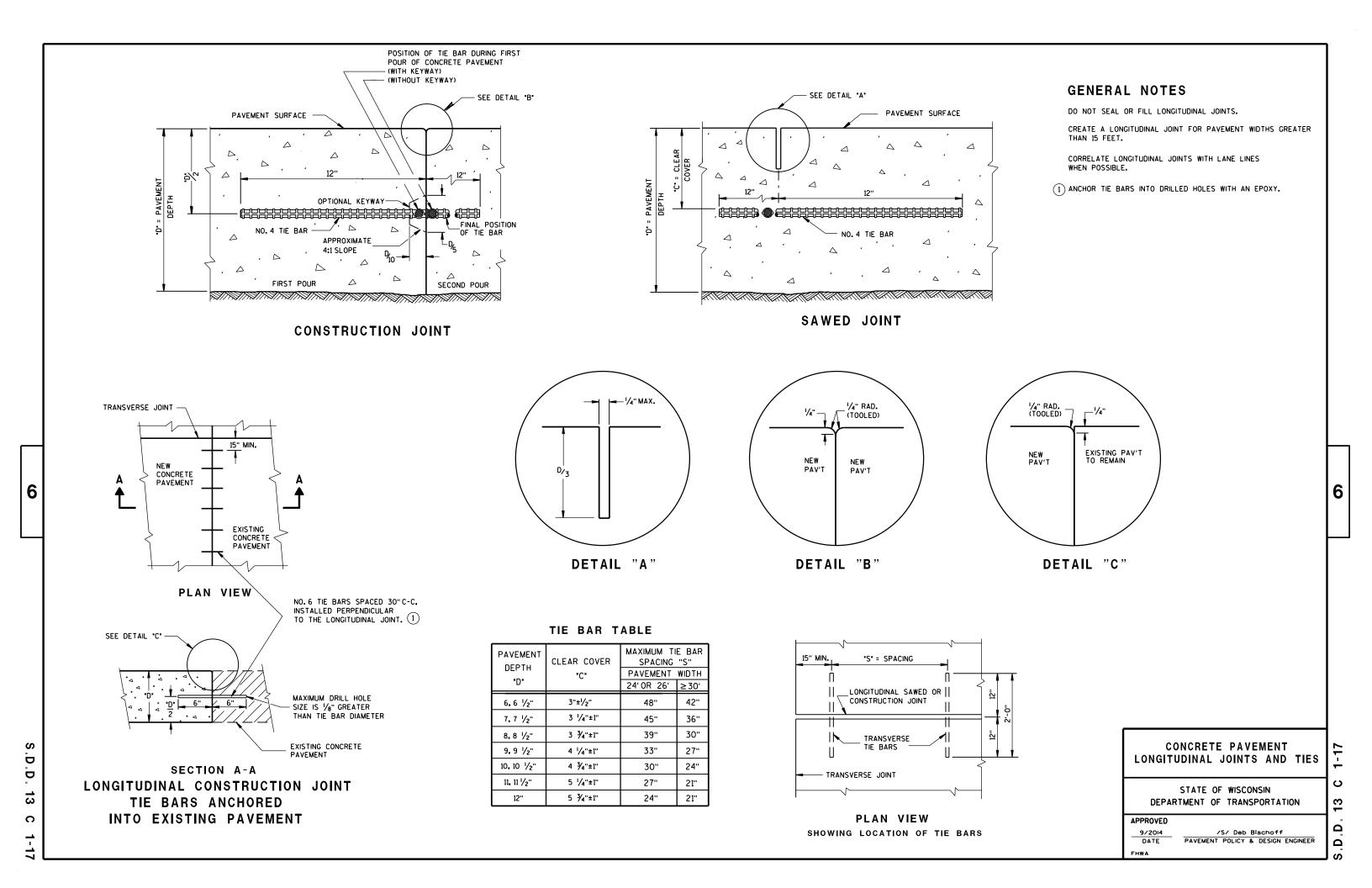
CHIEF STRUCTURAL DEVELOPMENT ENGINEER

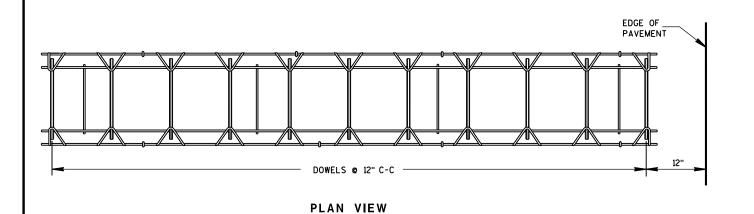
D.D. 12 A

3-10









PAVEMENT DEPTH, DOWEL BAR SIZE AND JOINT SPACING TABLE

PAVEMENT DEPTH (D)	DOWEL BAR DIAMETER	CONTRACTION JOINT SPACING			
5 1/2", 6",6 1/2"	NONE	12'			
7",7 1/2"	1"	14'			
8"•8 1/2"	1 1/4"	15'			
9",9 1/2"	1 1/4"	15'			
10" & ABOVE	1 1/2"	15'			

GENERAL NOTES

CONTRACTION JOINTS

CONSTRUCT TRANSVERSE CONTRACTION JOINTS NORMAL TO THE CENTERLINE. SHOW THE LOCATION OF CONTRACTION JOINTS THROUGH INTERSECTIONS ON THE PLANS OR AS DIRECTED BY THE ENGINEER.

DO NOT SEAL OR FILL CONTRACTION JOINTS.

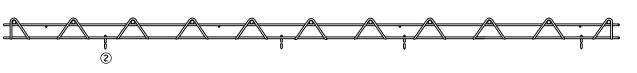
INSTALL DOWEL BARS PARALLEL TO THE PAVEMENT CENTERLINE AND PAVEMENT SURFACE.

FOR PAVEMENT SLABS OF VARYING WIDTHS, LOCATE THE OUTER MOST DOWEL BAR SO THAT THE CENTER OF THE BAR IS A MINIMUM OF 6 INCHES AND A MAXIMUM OF 18 INCHES FROM THE LONGITUDINAL JOINT AND THE FREE EDGE

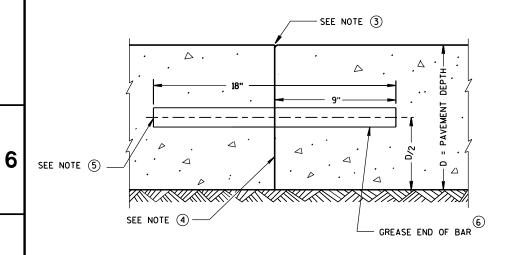
CONSTRUCTION JOINTS

LOCATE CONSTRUCTION JOINTS A MINIMUM OF 6 FEET FROM THE NEAREST CONTRACTION JOINT AND ALIGN PARALLEL TO CONTRACTION JOINTS.

- (1) OBTAIN THE ENGINEER'S APPROVAL FOR THE USE OF ALTERNATIVE DESIGNS OF THE DOWEL ASSEMBLY. USE MECHANICAL DOWEL BAR INSERTERS OR DOWEL ASSEMBLIES WHEN CONSTRUCTING CONTRACTION JOINTS.
- 2) SECURE BASKETS WITH ANCHORS TO HOLD DOWEL BARS IN THE CORRECT POSITION AND ALIGNMENT. TYPE, LOCATION, NUMBER AND LENGTH OF ANCHORS ARE DEPENDENT UPON FIELD CONDITIONS.
- (3) FORM OR SAW CONSTRUCTION JOINTS. PROVIDE A 1/4-INCH RADIUS AT FORMED JOINTS.
- 4 PROVIDE A SMOOTH VERTICAL FACE FOR THE ENTIRE DEPTH OF THE PAVEMENT WHEN FORMING CONSTRUCTION JOINTS.
- 5 INSTALL DOWEL BARS AT CONSTRUCTION JOINTS BY FORMING OR DRILLING. INSTALL FORMED DOWEL BARS 12 INCHES C-C AND 12 INCHES FROM PAVEMENT EDGE. REMOVE EXCESS CONCRETE FROM THE FREE END OF THE DOWEL BAR IF DOWEL BARS ARE FORMED THROUGH A HEADER BOARD. INSTALL DRILLED DOWEL BARS ACCORDING TO DRILLED DOWEL BAR CONSTRUCTION JOINT DETAIL.
- 6 APPLY A THIN UNIFORM COATING OF SURFACE TREATMENT TO THE FREE END OF DOWEL BARS TO PREVENT BONDING.
- (7) ANCHOR DOWEL BARS INTO DRILLED HOLES WITH AN EPOXY. MAXIMUM DRILLED HOLE SIZE IS 1/8-INCH GREATER THAN DOWEL BAR DIAMETER. 9 INCHES IN LENGTH.



SIDE VIEW CONTRACTION JOINT DOWEL ASSEMBLY



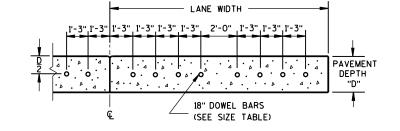
TRANSVERSE CONSTRUCTION JOINT

△ DOWEL BARS © 12" C-C 12" FROM PAVEMENT EDGE-

DOWELED CONTRACTION JOINT

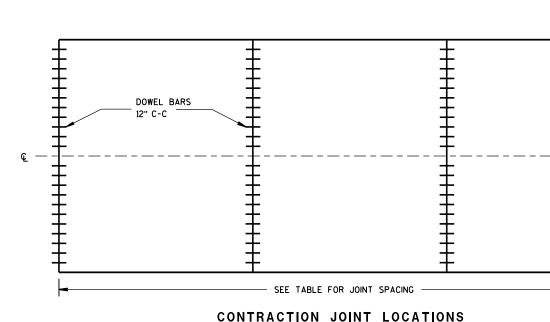
(SEE SIZE TABLE)

SEE JOINT DETAIL



(FOR 11' LANE WIDTH REDUCE CENTER SPACE TO 1'-O")

DRILLED DOWEL BAR CONSTRUCTION JOINT $^{\scriptsize \bigcirc}$



JOINT DETAIL

URBAN DOWELED CONCRETE PAVEMENT

- ¼" MAX.

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED 5/3/2013

FHWA

/S/ Deb Bischoff PAVEMENT POLICY & DESIGN ENGINEER

D D $\overline{\omega}$ C

Ω

13



BRIDGE ROAD 1)TWO-WAY **CLOSED** TYPE "A" WARNING LIGHTS REQUIRED OUTSIDE EDGE OF SHOULDER OUTSIDE EDGE OF SHOULDER OR FACE OF CURB OR FACE OF CURB **DETAIL D**

ROAD CLOSURE BARRICADE DETAIL

APPROACH VIEW



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

THE R11-2, R11-3, M4-9, R11-4 AND R10-61 SIGNS PLACED ON BARRICADES SHALL COVER NO MORE THAN THE TOP RAIL. THE SIGNS SHALL NOT COVER ANY PORTION OF THE MIDDLE OR BOTTOM RAILS.

"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, 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". (30" X 15" 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
- THESE SIGNS AND BARRICADES ARE NOT REQUIRED IF ROAD CLOSURE BEGINS AT INTERSECTION.
- FOR ROAD CLOSURE WITHOUT LOCAL ACCESS TO PROJECT, SEE ROAD CLOSURE BARRICADE DETAIL D.
- FOR ROAD CLOSURE WITH LOCAL ACCESS TO PROJECT, SEE LANE CLOSURE BARRICADE DETAIL E.
- FOR BRIDGE OR CULVERT REPLACEMENTS, SUBSTITUTE "BRIDGE OUT" INSTEAD OF "ROAD CLOSED" ON R11-2 AND R11-3 SIGNS.
- 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.
- "EAST" CARDINAL DIRECTION MARKERS AND RIGHT TURN ARROWS ARE SHOWN. USE OTHER CARDINAL DIRECTIONS AND ARROWS AS APPROPRIATE.

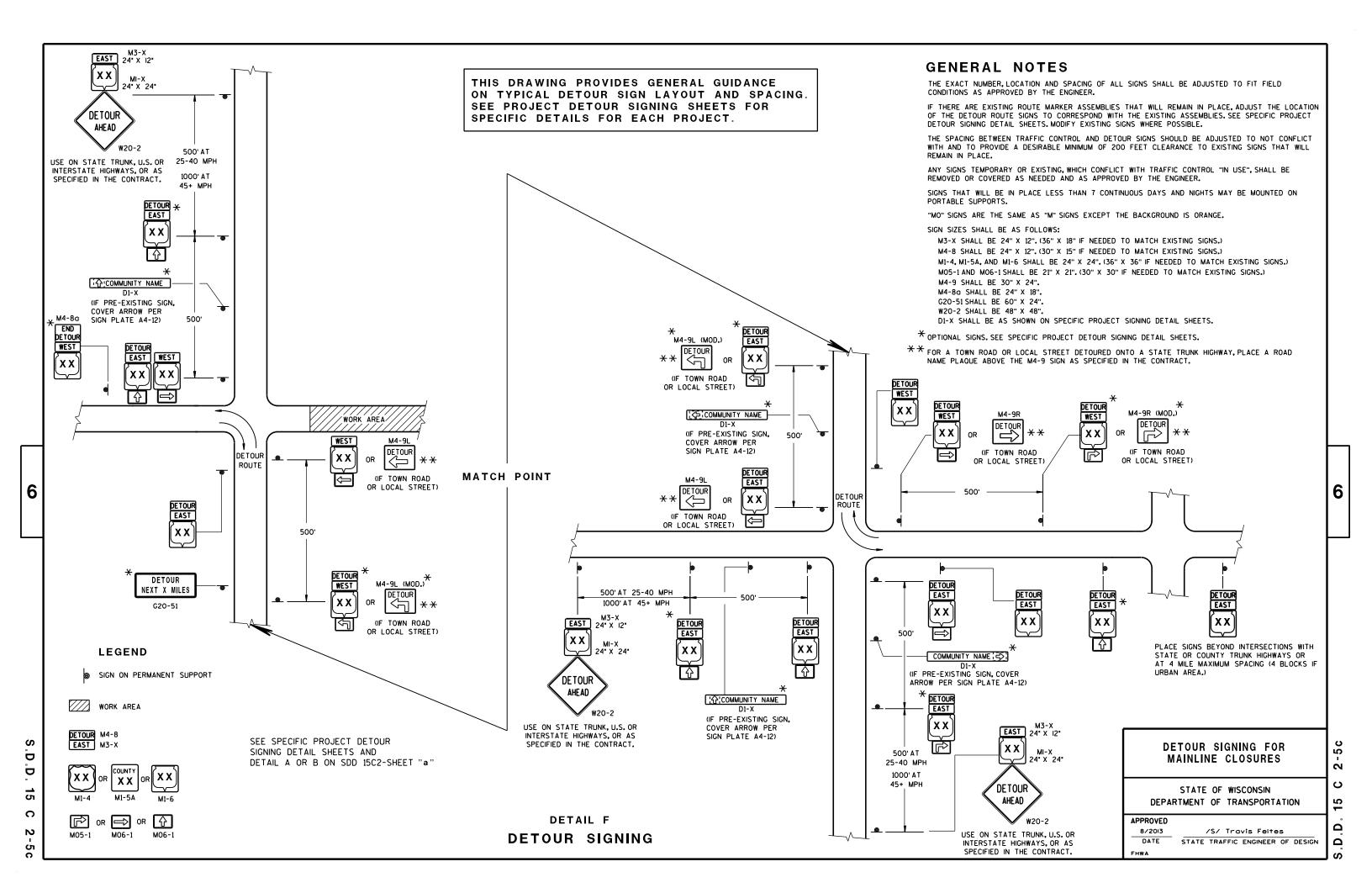
BARRICADES AND SIGNS FOR MAINLINE CLOSURES

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

/S/ Travis Feltes STATE TRAFFIC ENGINEER OF DESIGN

2

Δ



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.

IF A "STOP" SIGN MUST BE REMOVED FOR A WORK OPERATION, A TEMPORARY "STOP" SIGN SHALL BE PLACED PRIOR TO THE SIGN REMOVAL, OR A FLAGGER SHALL BE PROVIDED UNTIL THE SIGN IS RE-ESTABLISHED.

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 AND R11-4 SIGNS PLACED ON BARRICADES SHALL COVER NO MORE THAN THE TOP RAIL. THE SIGNS SHALL NOT COVER ANY PORTION OF THE MIDDLE OR BOTTOM RAILS.

ALL SIGNS SHALL BE 48" X 48" UNLESS OTHERWISE NOTED BELOW:
RI1-2 SHALL BE 48" X 30".
RI1-4 AND RI1-3 SHALL BE 60" X 30".

*OMIT THE "ROAD CLOSED 500 FT." SIGN IF THE LAST INTERSECTION IS 500 FT. OR LESS FROM THE WORK ZONE.

**500' MAX. OR AT LAST INTERSECTION WHICHEVER IS CLOSER.

LEGEND

SIGN ON PERMANENT SUPPORT

TYPE III BARRICADE

TYPE III BARRICADE WITH
ATTACHED SIGN

(A) TYPE "A" WARNING LIGHT (FLASHING)

//// w

WORK AREA

BARRICADES AND SIGNS FOR SIDEROAD CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

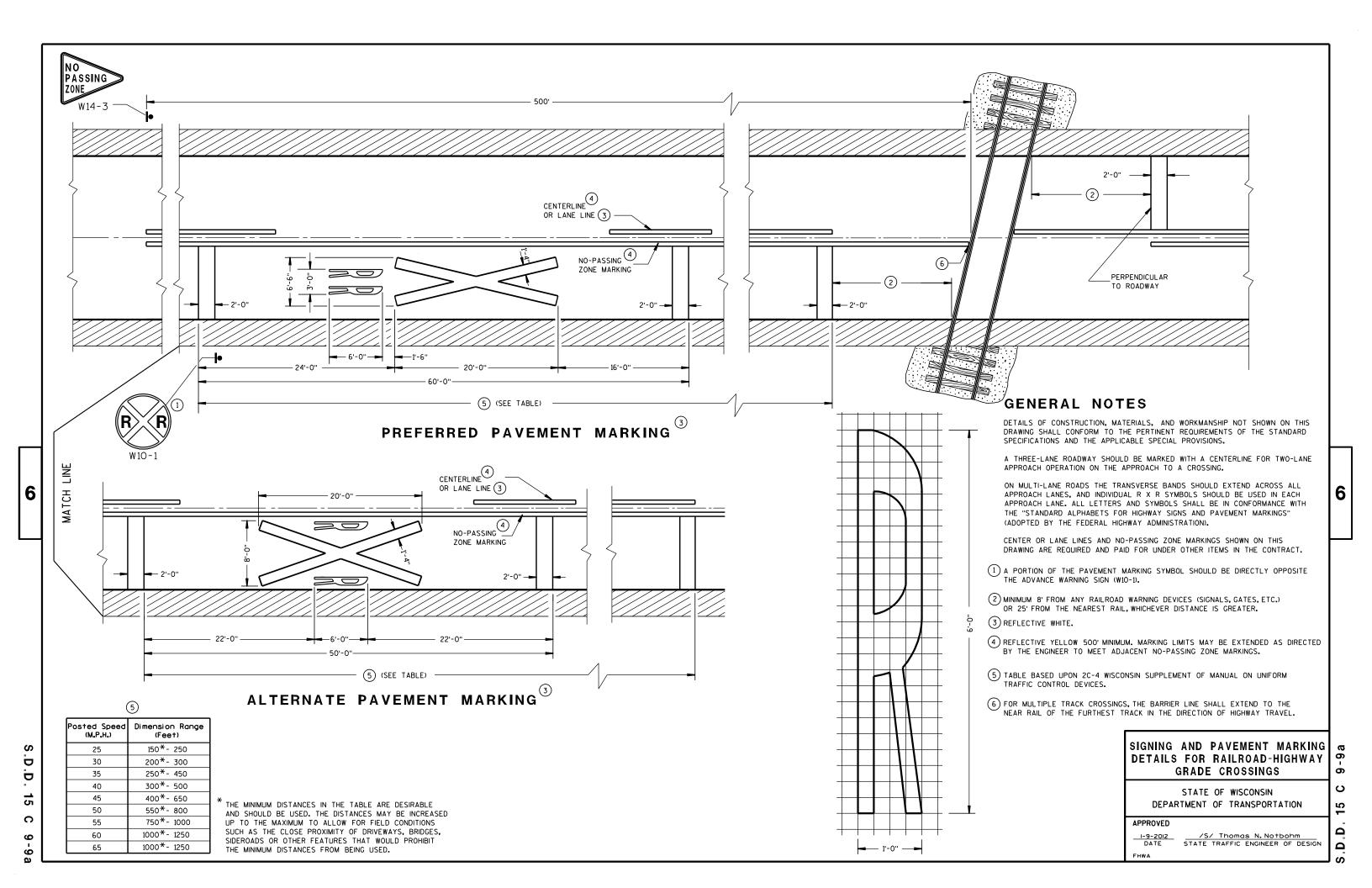
APPROVED

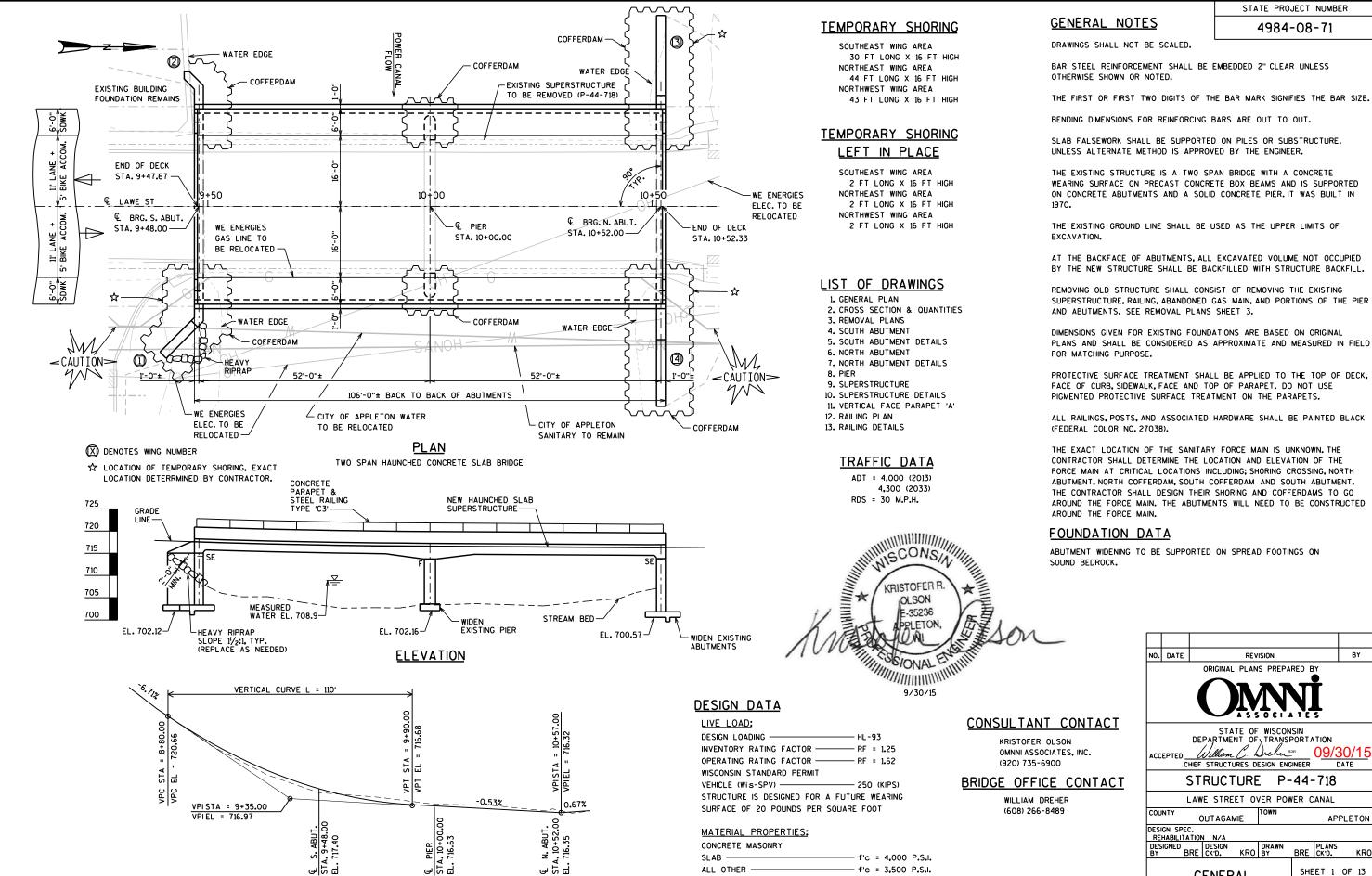
8/2013 /S/ Travis Feltes

DATE STATE TRAFFIC ENGINEER OF DESIGN

S.D.D. 15 C 3-2







PROFILE GRADE LINE

8

HIGH STRENGTH BAR STEEL REINFORCEMENT, GRADE 60

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

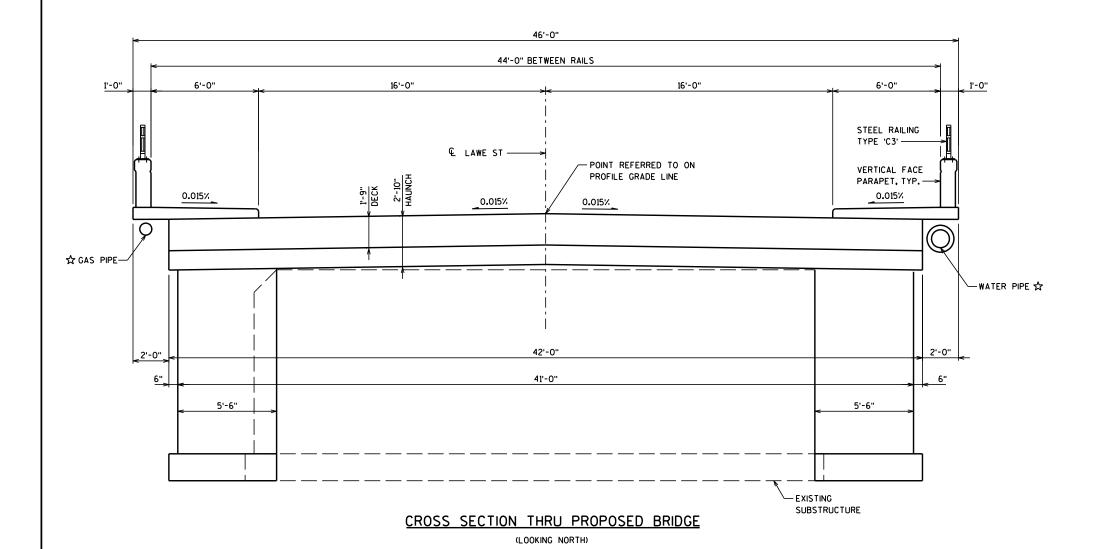
APPLETON

8

GENERAL

PLAN

STATE PROJECT NUMBER
4984-08-71



UTILITY NOTE:

☆ TWO UTILITIES WILL BE LOCATED ON THE BRIDGE. GAS PIPE
ANCHORS WILL BE PROVIDED BY THE UTILITY. BRIDGE CONTRACTOR
SHALL INSTALL PIPE ANCHORS AS REQUIRED. UTILITY WILL INSTALL
GAS PIPE AND PROVIDE FINAL ADJUSTMENT OF HANGERS. WATER
PIPE AND HANGER ASSEMBLIES TO BE INSTALLED BY CONTRACTOR,
SEE ADDITIONAL INFORMATION PROVIDED ON ROADWAY CONSTRUCTION
DETAILS. INSTALLATION OF ALL ANCHORS SHALL BE INCIDENTAL TO
CONCRETE MASONRY BRIDGES. CONTRACTOR SHALL PROVIDE
OPENINGS IN SHORING FOR UTILITIES. SHORING THAT UTILITIES
PASSES THROUGH SHALL BE LEFT IN PLACE. PROVIDING OPENINGS
SHALL BE INCIDENTAL TO TEMPORARY SHORING LEFT IN PLACE.

BENCH MARKS (NAVD 88)

8

NO.	STATION	DESCRIPTION	ELEV.
ВМ1	8+42 , 37' LT	'BURY' BOLT ON HYDRANT, EAST OF ROADWAY	723.11
ВМ2	9+42 , 17' RT	CHISELED SQUARE ON SE WING WALL OF BRIDGE	717.85
ВМ3	10+58 , 18' RT	CHISELED SQUARE ON NE WING WALL OF BRIDGE	716.87
ВМ4	11+26 , 18' LT	'BURY' BOLT ON HYDRANT, EAST OF ROADWAY	717.78

TOTAL ESTIMATED QUANTITIES

ITEM NO.	BID ITEMS	UNIT	SUPER.	SOUTH ABUT.	NORTH ABUT.	PIER	TOTALS
203.0600.5	REMOVING OLD STRUCTURE OVER WATERWAY WITH MINIMAL DEBRIS (STA 10+00)	LS					1
206.1000	EXCAVATION FOR STRUCTURES BRIDGES (P-44-718)	LS					1
206.5000	COFFER DAMS (P-44-718)	LS					1
210.0100	BACKFILL STRUCTURE	CY		170	260		430
502.0100	CONCRETE MASONRY BRIDGES	CY	352	54	80	18	504
502.3200	PROTECTIVE SURFACE TREATMENT	SY	617				617
502.5002	MASONRY ANCHORS TYPE L NO. 4 BARS	EACH		62	66	116	244
502.5005	MASONRY ANCHORS TYPE L NO.5 BARS	EACH		62	62		124
505.0400	BAR STEEL REINFORCEMENT HS STRUCTURES	LB				1,020	1,020
505.0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	LB	80,880	5,730	8,200	80	94,890
509.1500	CONCRETE SURFACE REPAIR	SF	10				10
511.1200	TEMPORARY SHORING (P-44-718)	SF		480	1,395		1,875
511.2200	TEMPORARY SHORING LEFT IN PLACE (P-44-718)	SF		35	65		100
513.7016	RAILING STEEL TYPE C3 (P-44-718)	LF	212				212
513.8016	RAILING STEEL PEDESTRIAN TYPE C3 (P-44-718)	LF	44				44
516.0500	RUBBERIZED MEMBRANE WATERPROOFING	SY		20	21		41
606.0300	RIPRAP HEAVY	CY		12			12
645.0120	GEOTEXTILE FABRIC TYPE HR	SY		36			36
	NON-BID ITEMS						
	FILLER	SIZE					1/2"&¾"

NO. DATE REVISION BY

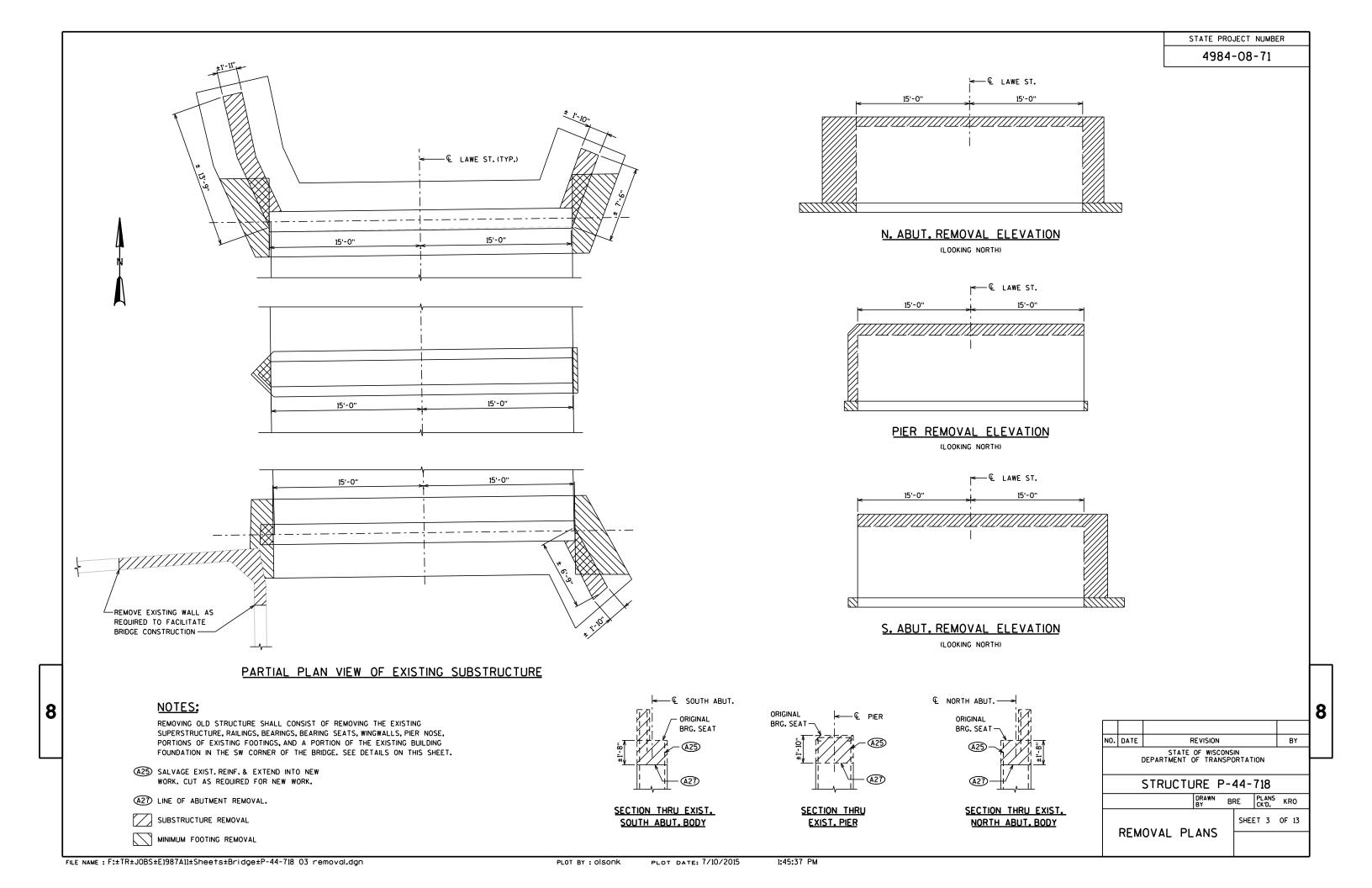
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

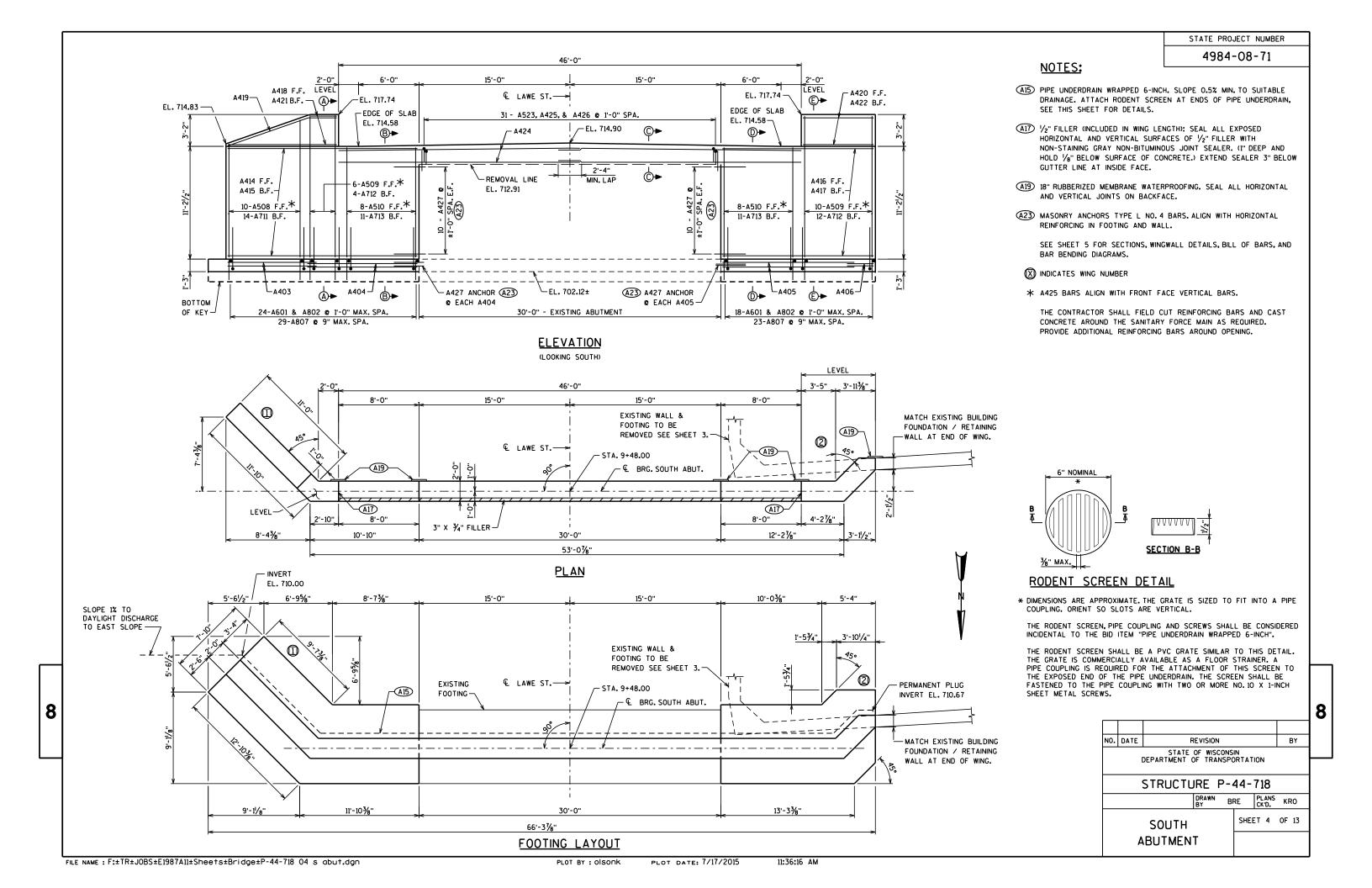
STRUCTURE P-44-718

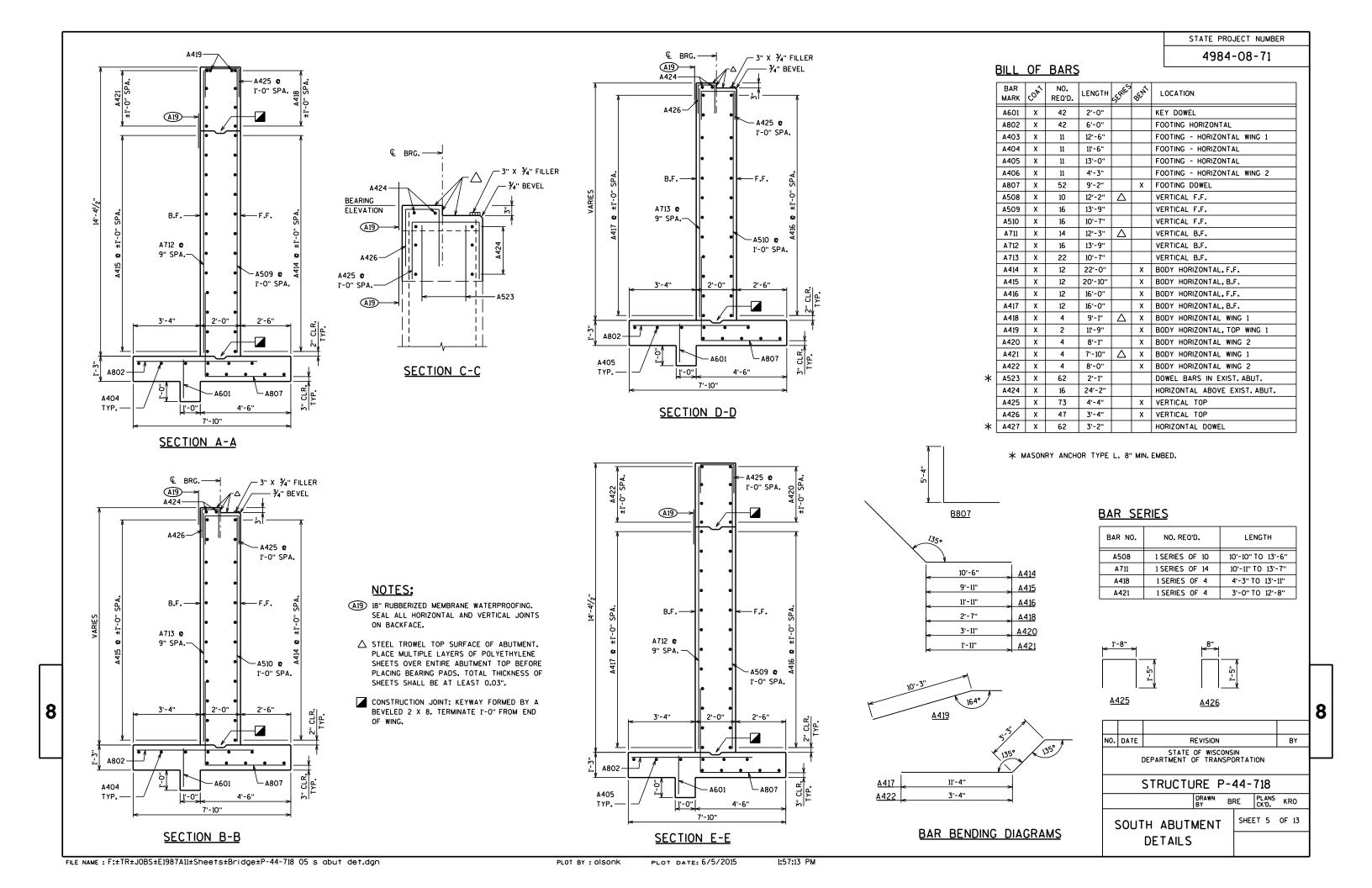
DRAWN BRE PLANS KRO

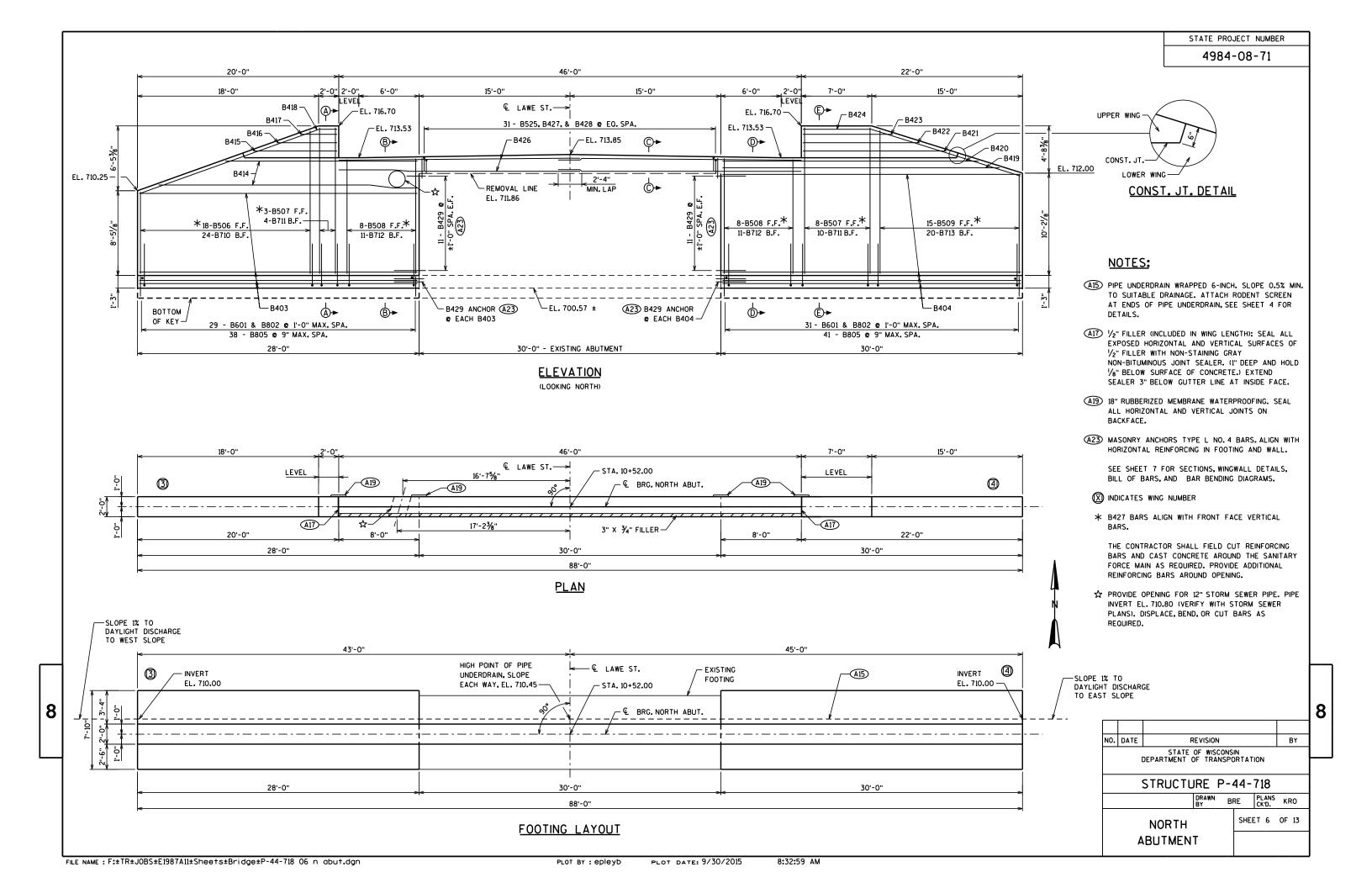
CROSS SECTION SHEET 2 OF 13

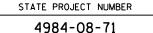
AND QUANTITIES



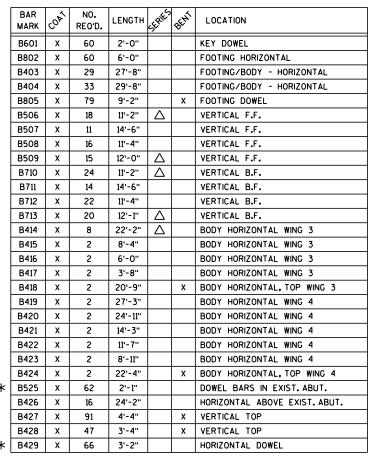




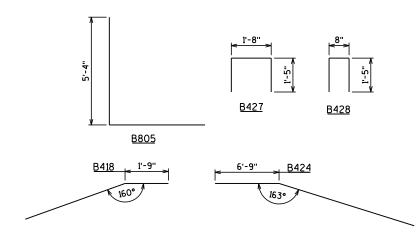




BILL OF BARS



* MASONRY ANCHOR TYPE L. 8" MIN. EMBED.



BAR BENDING DIAGRAMS

BAR SERIES

BAR NO.	NO. REO'D.	LENGTH				
B506	1 SERIES OF 18	8'-1" TO 14'-3"				
B509	1 SERIES OF 15	9'-9" TO 14'-3"				
B710	1 SERIES OF 24	8'-1" TO 14'-3"				
B713	1 SERIES OF 20	9'-10" TO 14'-4"				
B414	2 SERIES OF 4	18'-7" TO 25'-9"				

NO. DATE REVISION BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

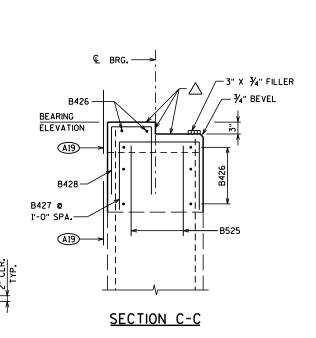
STRUCTURE P-44-718

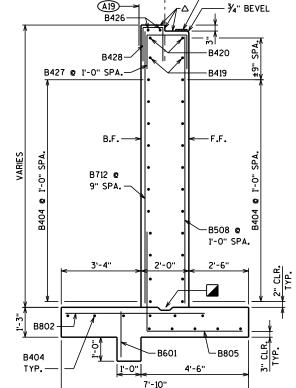
DRAWN BRE PLANS KRO

NORTH ABUTMENT DETAILS

SHEET 7 OF 13

8

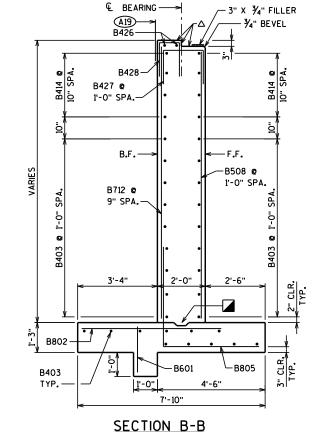




€ BEARING

- 3" X ¾" FILLER

SECTION D-D



-B427 **œ .⁴** 1'-0" SPA.≿

B416

-B415

− F**.**F.

∕-B507 **©**

2'-6"

-B805

-B601

SECTION A-A

4'-6"

1'-0" SPA.

(A19)-

B711 @

B802

B403

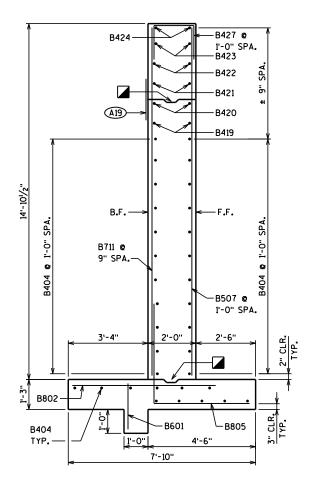
TYP.

8

9" SPA.-

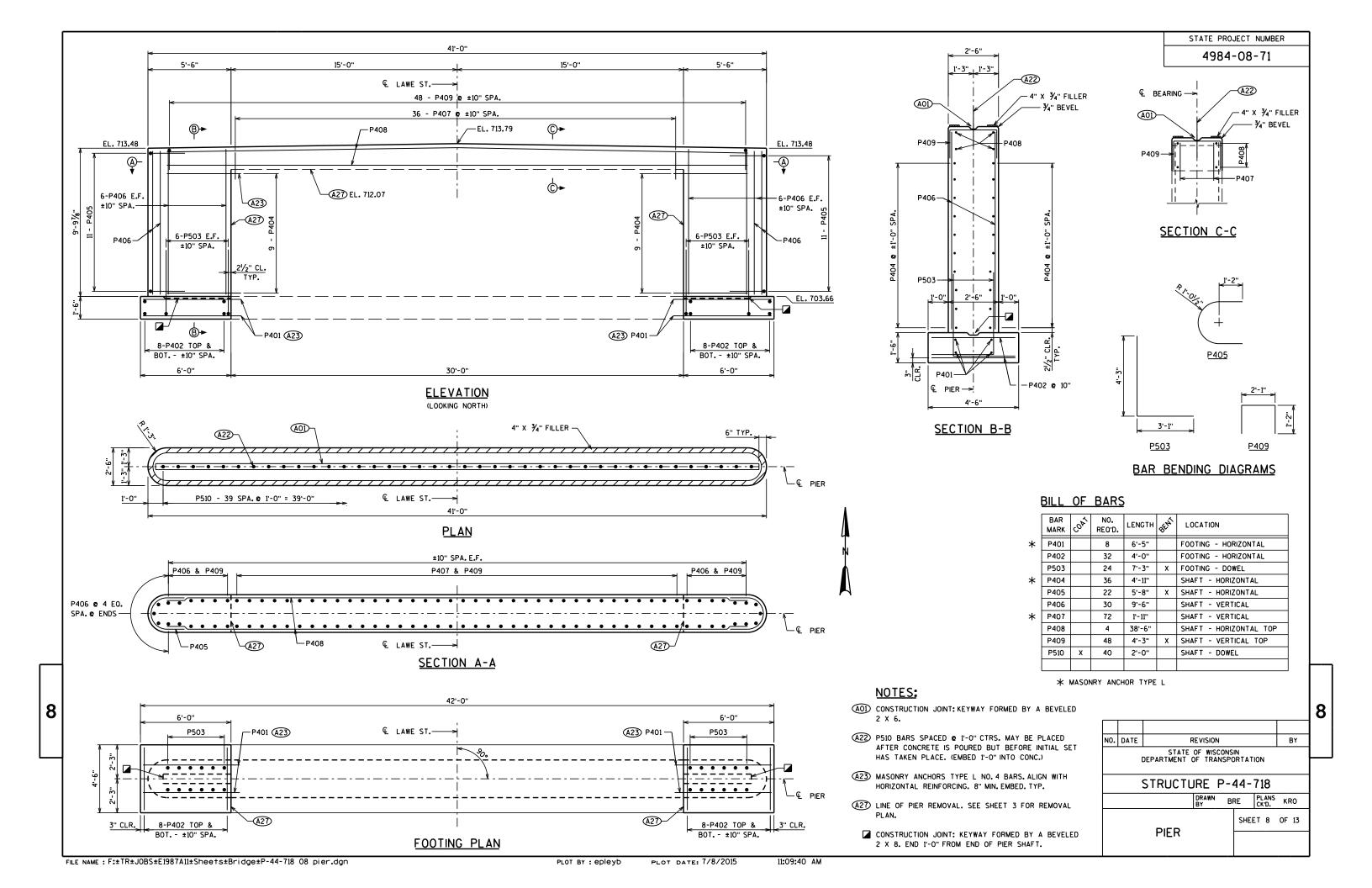
NOTES:

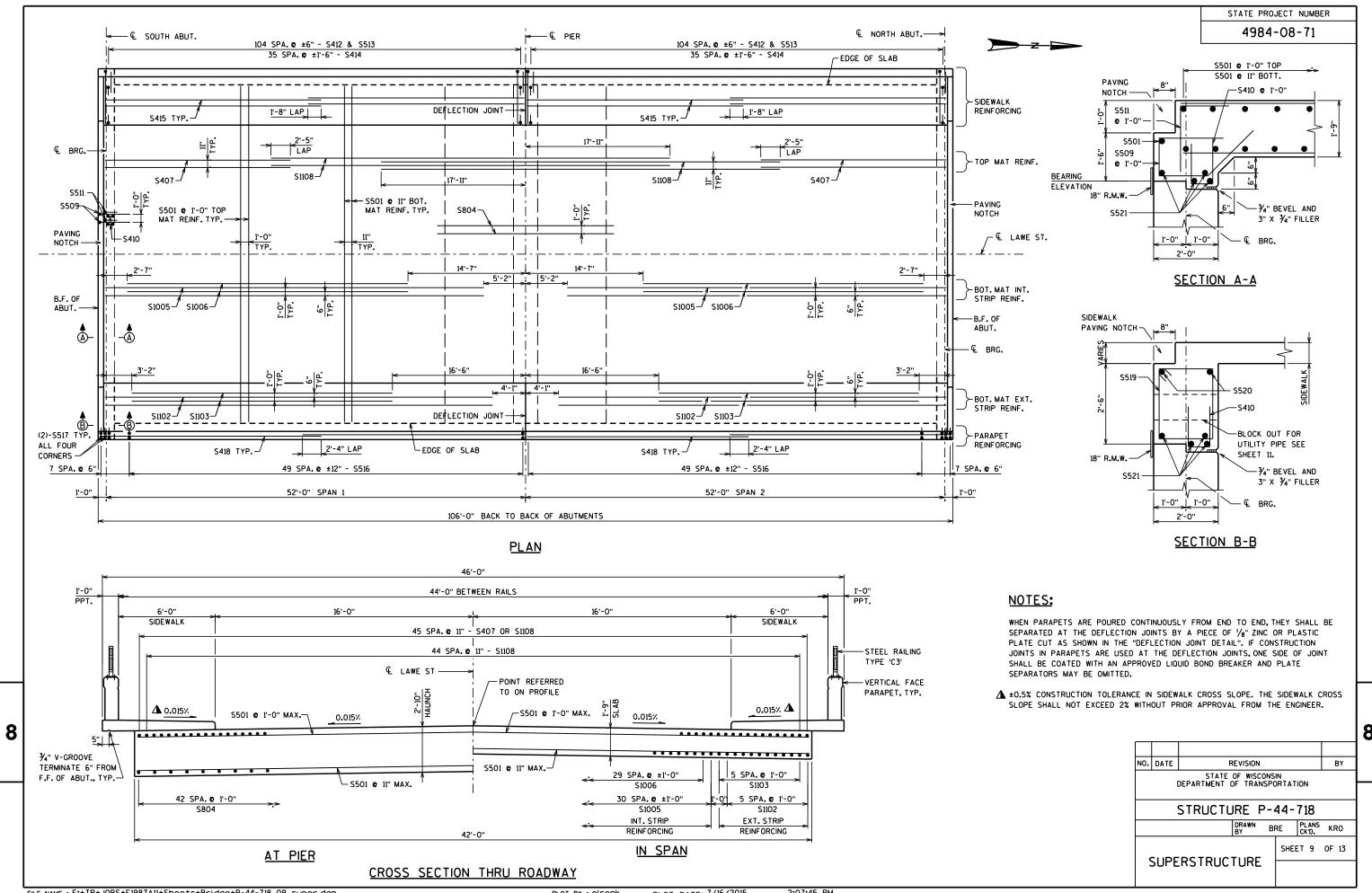
- (A19) 18" RUBBERIZED MEMBRANE WATERPROOFING. SEAL ALL HORIZONTAL AND VERTICAL JOINTS ON BACKFACE.
- △ STEEL TROWEL TOP SURFACE OF ABUTMENT.
 PLACE MULTIPLE LAYERS OF POLYETHYLENE
 SHEETS OVER ENTIRE ABUTMENT TOP BEFORE
 PLACING BEARING PADS. TOTAL THICKNESS OF
 SHEETS SHALL BE AT LEAST 0.03".
- CONSTRUCTION JOINT: KEYWAY FORMED BY A BEVELED 2 X 8. END 1'-O" FROM END. TERMINATE 1'-O" FROM END OF WING.

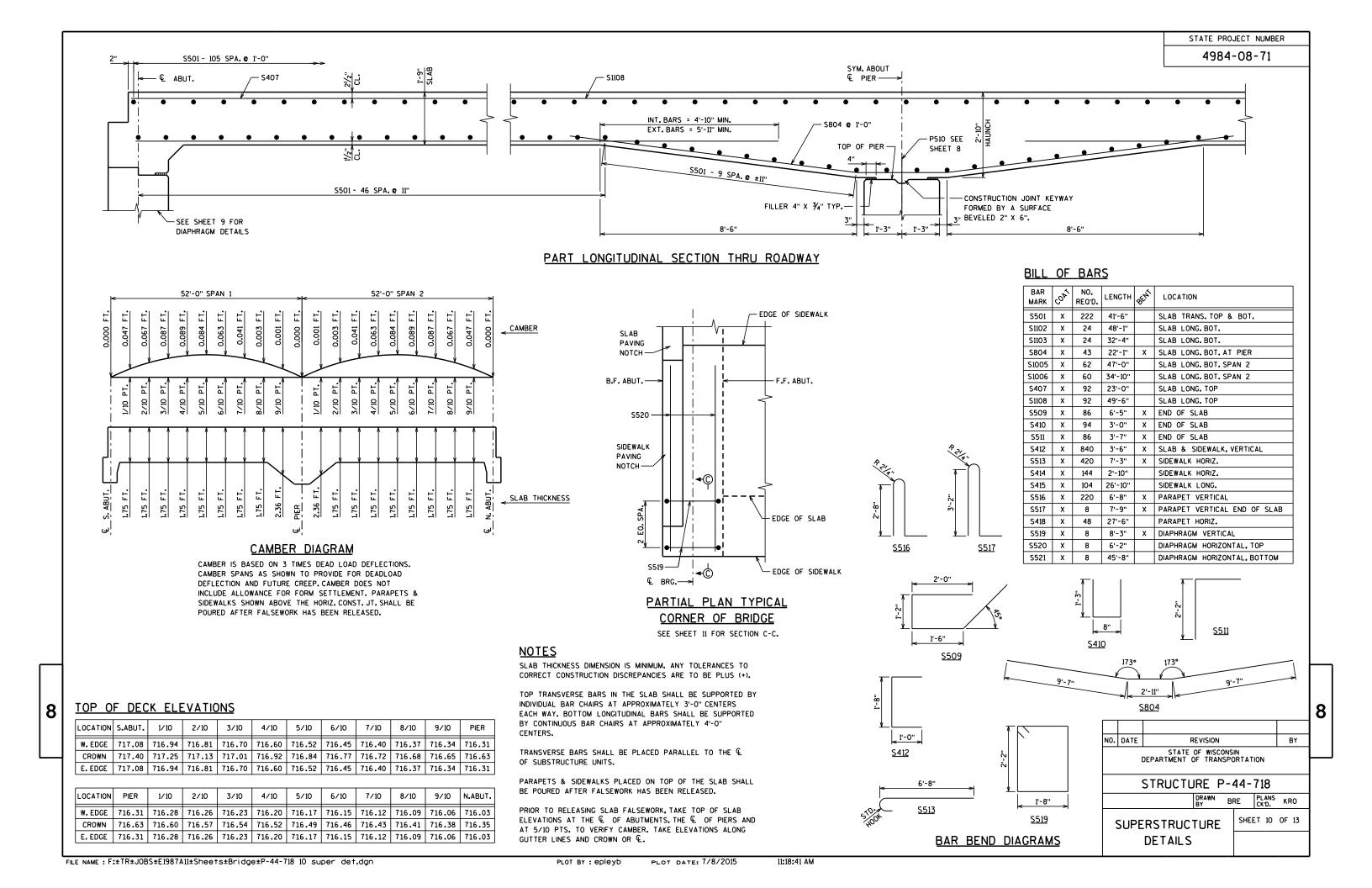


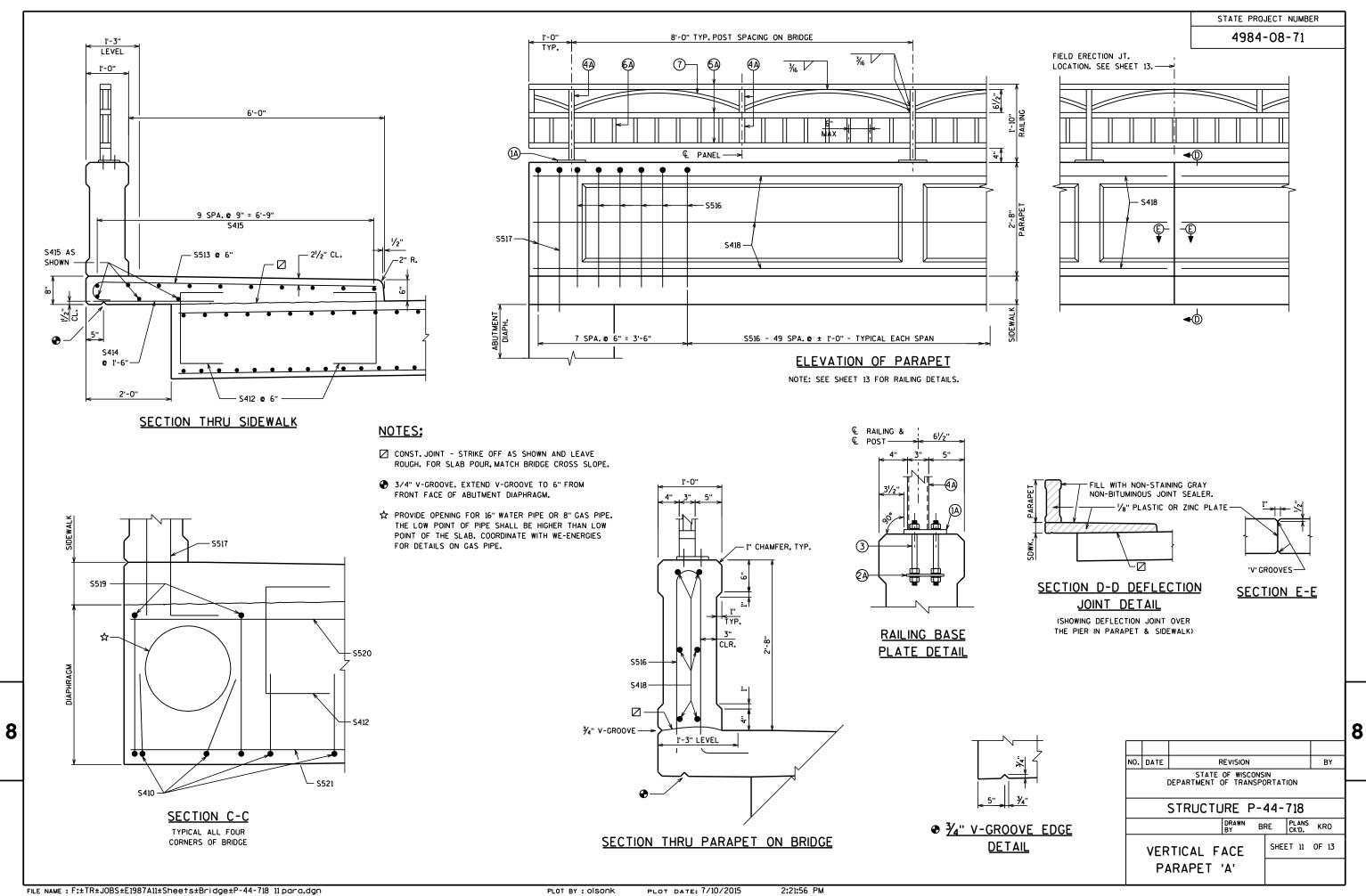
SECTION E-E

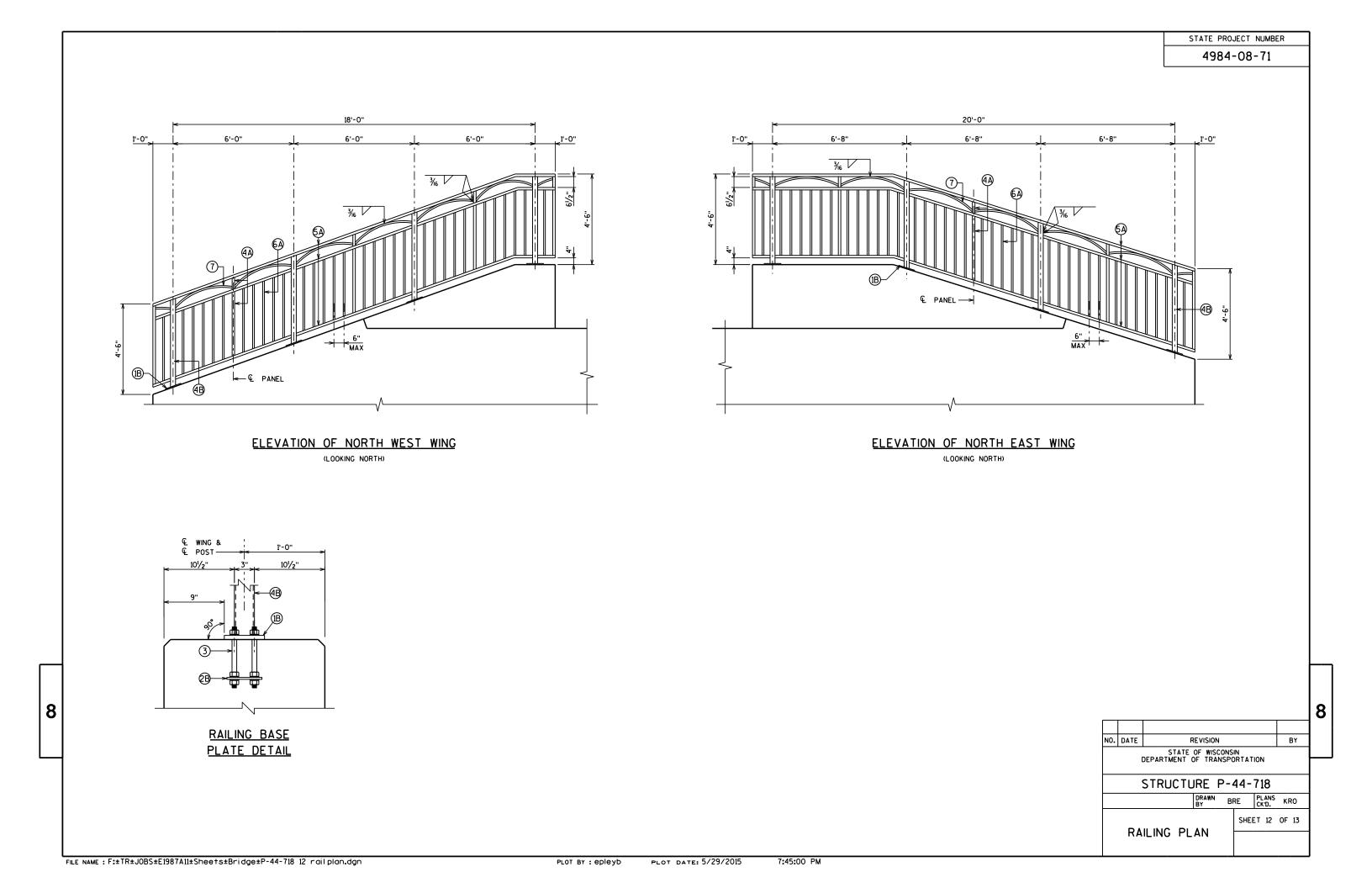
PLOT DATE: 7/8/2015









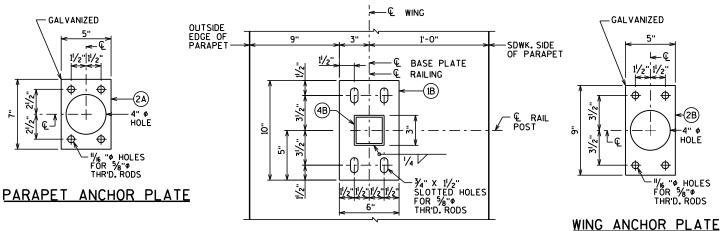




4984-08-71



- (1A) PLATE 38" X 6" X 8" WITH 34" X 11/2" SLOTTED HOLES.
- (1B) PLATE 1/8" X 6" X 10" WITH 3/4" X 11/2" SLOTTED HOLES
- (2A) 1/4" X 5" X 7" ANCHOR PLATE WITH 1/16" # HOLES FOR THR'D. RODS NO. 3.
- (2B) 1/4" X 5" X 9" ANCHOR PLATE WITH 1/16" \$ HOLES FOR THR'D. RODS NO. 3.
- (3) %" DIA, X 9" LONG, TYPE 316 STAINLESS STEEL THREADED RODS (MIN. TENSILE STRENGTH = 70 KSI) WITH NUT AND WASHERS OF SAME ALLOY GROUP. (ALTERNATE RAIL POST ANCHORAGE 4 EQUIV. STAINLESS STEEL CONCRETE MASONRY ANCHORS, TYPE S (EPOXY), %" MINIMUM PULLOUT CAPACITY OF 13 KIPS. EMBED A MIN. OF 7" FOR RAIL POSTS AND 5" FOR END RAILS.)
- (4A) STRUCTURAL TUBING 3" X 11/2" X 36". PLACE VERTICAL. WELD TO NO. 1 & 5.
- (4B) STRUCTURAL TUBING 3" X 3" X 36". PLACE VERTICAL. WELD TO NO.1& 5.
- $\mbox{(a)}$ STRUCTURAL TUBING 3" X $11\!\!/_2$ " X $\mbox{\%}$ " RAILS. WELD TO NO. 1 & NO. 4. INSIDE OF TUBE TO BE PAINTED AT ALL FIELD ERECTION & EXPANSION JOINTS.
- (6A) BAR 1" X 1" PICKETS. WELD TO NO. 5. PLACE VERTICAL.
- (7)BAR 1" X 1". BEND TO REQUIRED RADIUS. WELD TO NO. 4 & 5.
- (9A) RECTANGULAR SLEEVE FABRICATED FROM 36" PLATES. PROVIDE "SLIDING FIT".
- (OA) RECTANGULAR SLEEVE FABRICATED FROM 36" PLATES. (1'-4" @ FIELD ERECTION JTS.) (1'-4" @ STRIP SEAL EXP. JTS.)



PARAPET RAIL POST BASE PLATE

6"

(4A)-

1/2

51/2"

-SDWK SIDE OF PARAPET

BASE PLATE

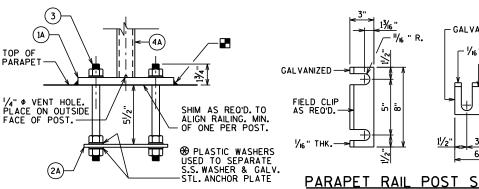
- & RAIL POST

- 3/4" X 11/2" SLOTTED HOLES FOR 5/8" P THR'D. RODS

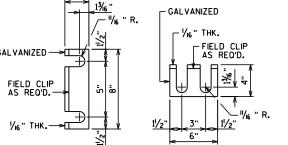
−¢ RAILING

OUTSIDE EDGE OF PARAPET —





PARAPET ANCHORAGE FOR RAIL POSTS NOTE: ANCHOR PLATE NOT REQUIRED WHEN TYPE S ANCHORS ARE USED.



─ GAL VANIZED

11/2" 11/2"

Ф

₩

Φ

POST SHIM DETAIL (2 SETS PER POST)

1/2" AT FIELD

ERECTION JTS.

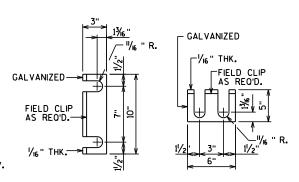
CURVED MEMBER JOINT DETAIL

SEAL ENDS ON CURVED STRUCTURAL TUBING WITH 1/4" PLATE. WELD AND GRIND SMOOTH.

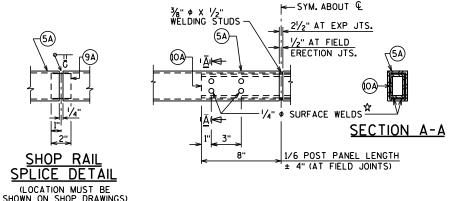
(3) (B) PARAPE1 1/4" Ø VENT HOLE. PLACE ON OUTSIDE SHIM AS REO'D. TO ALIGN RAILING. MIN. FACE OF POST. ONE PER POST. S.S. WASHER & GALV. STL. ANCHOR PLATE

WING ANCHORAGE FOR RAIL POSTS NOTE: ANCHOR PLATE NOT REQUIRED WHEN TYPE S ANCHORS ARE USED

8



POST SHIM DETAIL (2 SETS PER POST)



FIELD ERECTION JOINT DETAIL

☆ MIN. 5%" FLAT SURFACE DIA. PUNCHINGS OF STUDS MAY BE USED AS AN ALTERNATE.

RAILING NOTES

BID ITEM FOR RAILING ON PARAPET SHALL BE "RAILING STEEL TYPE C3 (P-44-718)" WHICH SHALL INCLUDE ALL PARAPET RAILING STEEL ITEMS SHOWN.

BID ITEM FOR RAILING ON WINGS SHALL BE "RAILING STEEL PEDESTRIAN TYPE C3 (P-44-718)" WHICH SHALL INCLUDE ALL WING RAILING STEEL ITEMS SHOWN.

POST BASE PLATES SHALL BE FLAT WITH ALL SURFACES SMOOTH AND FREE FROM WARP AND ALL EDGES SMOOTH, STRAIGHT AND VERTICAL. ALL PLATE CUTS SHALL BE MACHINE OR MACHINE FLAME CUTS.

NO. 1, 2, 6, 7, 9, 10 AND NO. 11 SHALL CONFORM TO ASTM A709 GRADE 36. STRUCTURAL TUBING SHALL CONFORM TO ASTM A500 GRADE B (NO. 4, AND NO. 5).

ANCHORAGES SHALL BE ACCURATELY PLACED TO PROVIDE CORRECT ALIGNMENT OF RAILING. SET NORMAL TO GRADE.

CUT BOTTOM OF POST TO MAKE POST VERTICAL IN BOTH TRANSVERSE AND LONGITUDINAL DIRECTION.

STEEL SHIMS SHALL BE PROVIDED & USED UNDER BASE PLATES WHERE REQUIRED FOR ALIGNMENT, AND SHALL BE GALVANIZED.

■ CAULK AROUND PERIMETER OF BASE PLATES, NO. 1, AND FILL BOLT SLOT OPENINGS IN SHIMS AND BASE PLATES WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER.

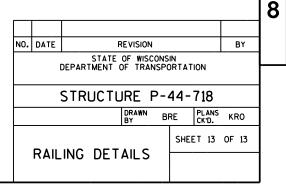
ALL JOINTS AND RECESSES IN CONCRETE PARAPET ARE TO BE VERTICAL.

ALL MATERIAL (EXCEPT NO. 3 & 12) SHALL BE GALVANIZED AFTER FABRICATION. PRIOR TO GALVANIZING, THE STEEL RAILING SHALL BE GIVEN A NO. 6 BLAST CLEANING PER SSPC SPECIFICATIONS. PAINT OVER GALVANIZING WITH AN APPROVED TIE COAT AND TOP COAT AS SPECIFIED IN THE "BRIDGE SPECIAL PROVISIONS". THE RAILING SHALL BE PAINTED FEDERAL COLOR NO. 27038, BLACK.

VENT HOLES SHALL BE DRILLED IN POST AND RAIL MEMBERS AS REQUIRED TO FACILITATE GALVANIZING AND DRAINAGE.

RAILING SHALL BE FABRICATED IN LENGTHS THAT INCLUDE 3 OR 4 POSTS.

TOUCH-UP PAINTING TO BE DONE AT COMPLETION OF STEEL RAILING INSTALLATION TO THE SATISFACTION OF THE ENGINEER AT NO EXTRA COST.



FILE NAME: F: TR + JOBS + E1987 All + Sheets + Bridge + P-44-718 13 rail det.dgn

PLOT BY : epleyb

PLOT DATE: 6/4/2015

2:41:22 PM

LAWE STREET - SOUTH

		AREA (SF)		Incremental	Vol (CY) (Una	adjusted)	Cumulative V		
STATION	Cut	Salvaged/ Unusable Pavement Material	Fill	Cut	Salvaged/ Unusable Pavement Material	Fill	Cut 1.00	Expanded Fill 1.3	Mass Ordinate
8+75.00	54	19	0	0	0	0	0	0	0
9+00.00	85	19	0	64	18	0	64	0	47
9+25.00	90	19	0	81	18	0	145	0	110
9+45.00	65	19	20	57	14	7	203	10	144
ENDS ABRUPTLY	65	19	20	6	2	2	209	12	146
STRUCTURE	0		0	0	0	0	209	12	146

LAWE STREET - NORTH

		AREA (SF)		Incremental	Vol (CY) (Una	adjusted)	Cumulative V		
STATION	Cut	Salvaged/ Unusable Pavement Material	Fill	Cut	Salvaged/ Unusable Pavement Material	Fill	Cut 1.00	Expanded Fill 1.3	Mass Ordinate
STRUCTURE	0	0	0	0	0	0	0	0	0
BEGINS ABRPUTLY	0	0	0	0	0	0	0	0	0
10+52.33	44	17	44	0	0	0	0	0	0
10+64.00	48	17	44	20	0	19	20	25	-5
END ABRUPTLY	0	0		0	0	0	20	25	-5

9

9

PROJECT NO: 4984-08-71 HWY: LAWE STREET COUNTY: OUTAGAMIE EARTHWORK QUANTITIES SHEET E 9-

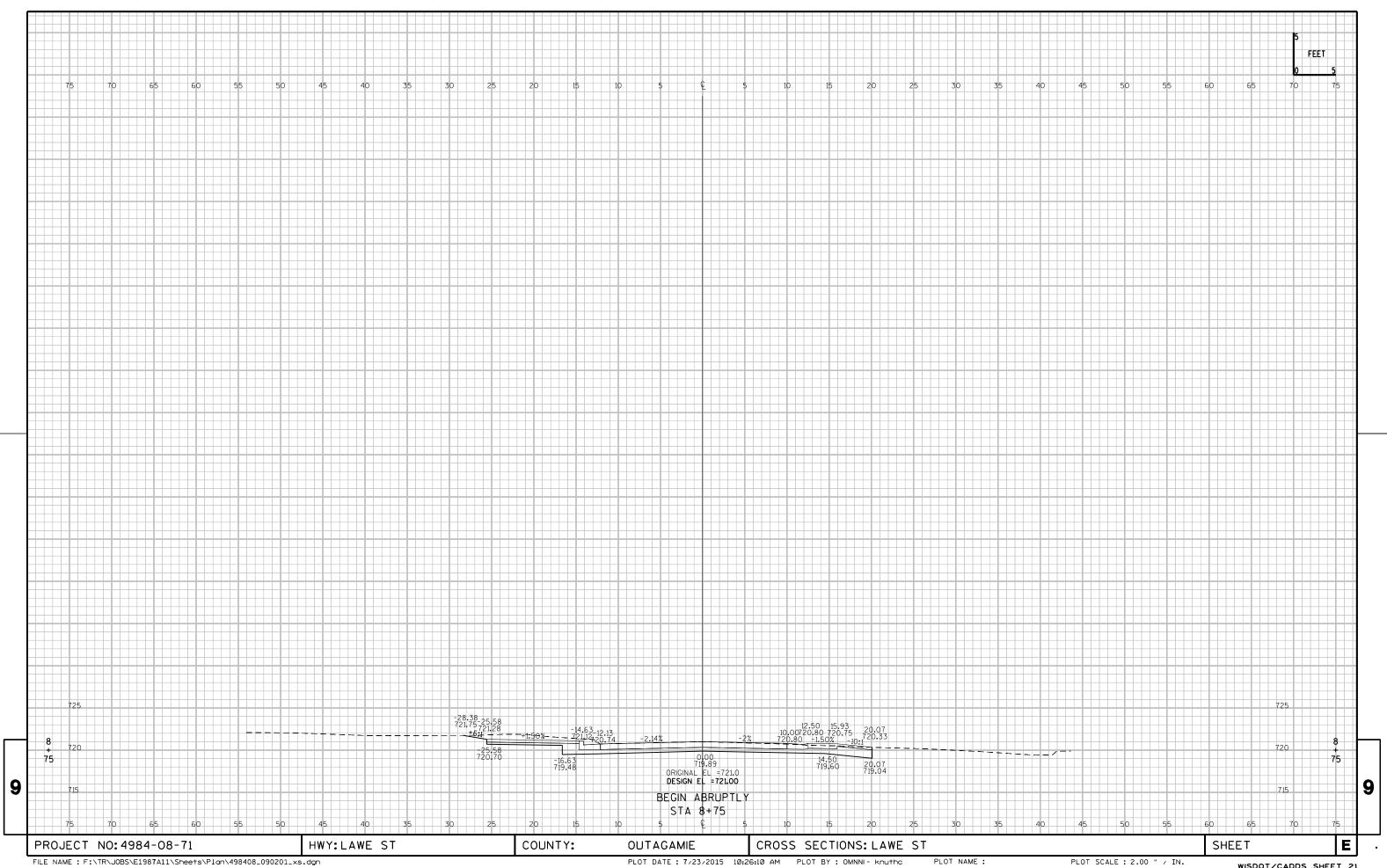
FILE NAME: F/TR/JOBS/E1983A11/QUANTITIES/E1983A11_earthwk

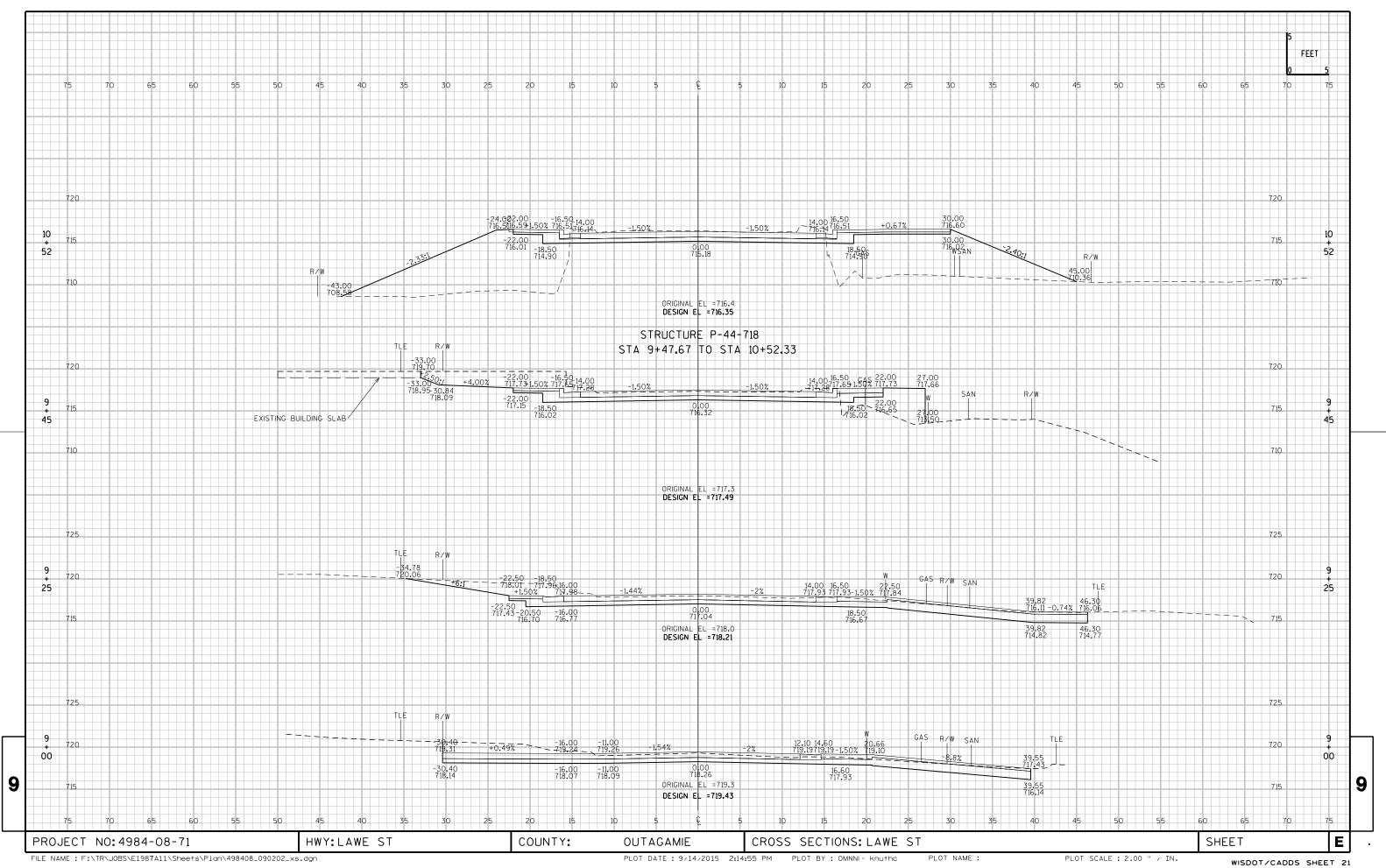
ORIGINATOR: OMNNI ASSOCIATES

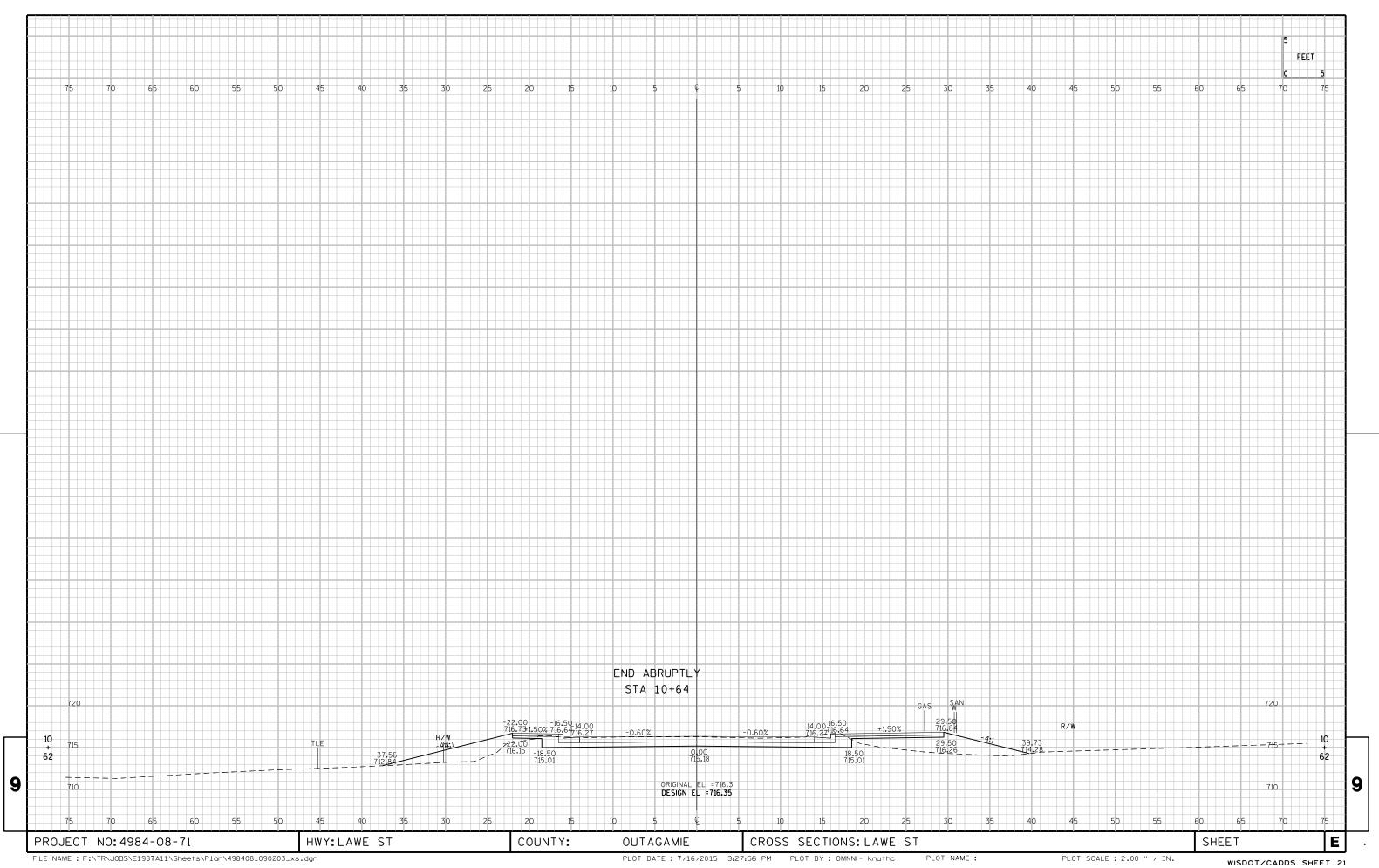
ORIG. DATE: 8/2/2012

REV. DATE: 7/27/2015

PRINT DATE: July 27, 2015









Wisconsin Department of Transportation

Dedicated people creating transportation solutions through innovation and exceptional service.

http://www.dot.wisconsin.gov