

ORDER OF SHEETS

Section No. 1	Title
Section No. 2	Typical Sections and Details (Includes Erosion Control Plans)
Section No. 3	Estimate of Quantities
Section No. 3	Miscellaneous Quantities
Section No. 4	Right of Way Plan
Section No. 5	Plan and Profile
Section No. 6	Standard Detail Drawings
Section No. 7	Sign Plans
Section No. 8	Structure Plans
Section No. 9	Computer Earthwork Data
Section No. 9	Cross Sections

TOTAL SHEETS = 76

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

C EAU CLAIRE, DEWEY STREET

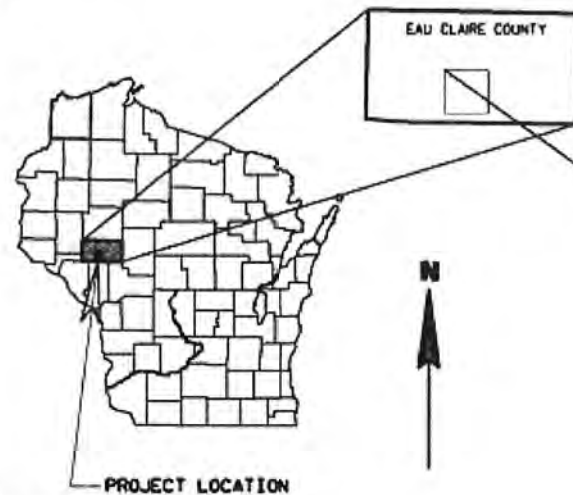
EAU CLAIRE RIVER BRIDGE B180093

LOC STR

EAU CLAIRE COUNTY

STATE PROJECT NUMBER

7995-02-48



PROJECT LOCATION

DESIGN DESIGNATION

A.A.D.T. (2020)	=	2,600
A.A.D.T. (2040)	=	2,850
D.H.V.	=	260
D.	=	50/50
T.	=	5%
DESIGN SPEED	=	30 MPH
ESALS	=	N/A

CONVENTIONAL SYMBOLS
PLAN

CORPORATE LIMITS	
PROPERTY LINE	
LOT LINE	
LIMITED HIGHWAY EASEMENT	
EXISTING RIGHT OF WAY	
PROPOSED OR NEW R/W LINE	
SLOPE INTERCEPT	
REFERENCE LINE	
EXISTING CULVERT	
PROPOSED CULVERT (Box or Pipe)	
COMBUSTIBLE FLUIDS	
HIGH VOLTAGE	
MARSH AREA	
WOODED OR SHRUB AREA	

PROFILE

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

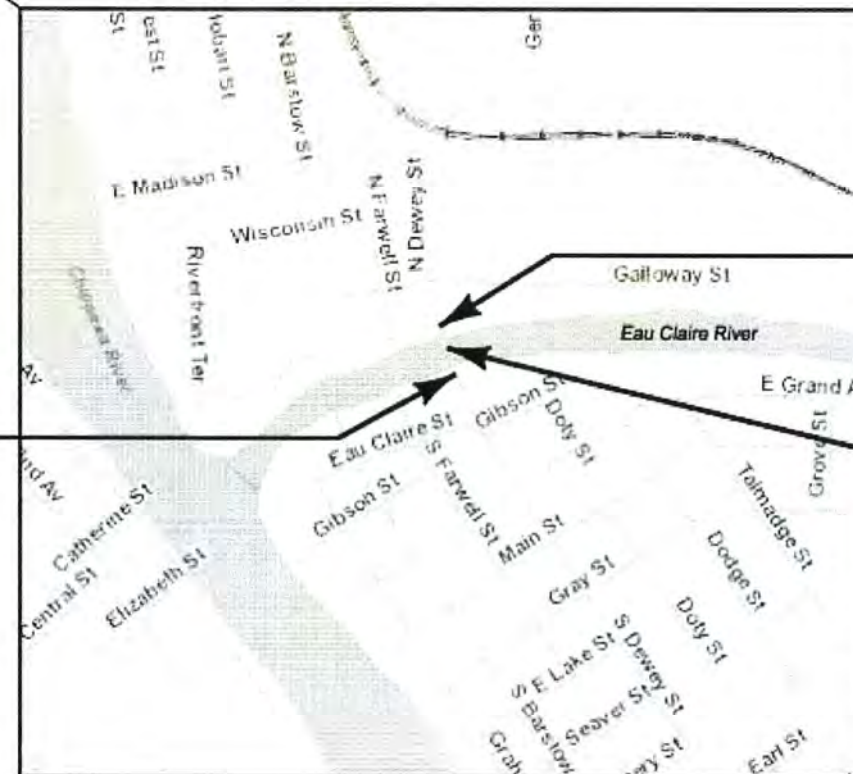
BEGIN PROJECT

STA. 9+75.78
Y = 279446.84
X = 339585.43

END PROJECT

STA. 12+92.22
Y = 279745.88
X = 339481.94

STRUCTURE B-18-93

LAYOUT
SCALE 0 500 FT.

TOTAL NET LENGTH OF CENTERLINE = 0.060 MI.

SURVEY PERFORMED IN 2018.
COORDINATES ON THIS PLAN ARE REFERENCED TO
THE WISCONSIN COUNTY COORDINATE SYSTEM (WCCS),
EAU CLAIRE COUNTY.

STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
7995-02-48	WISC 2019815	1

ACCEPTED FOR

City of Eau Claire

7/28/2020
Date

City Engineer

ORIGINAL PLANS PREPARED BY

AYRES ASSOCIATES
3433 Oakwood Hills Parkway
Eau Claire, WI 54701
www.AyresAssociates.com

DATE 7/28/2020

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PREPARED BY

Surveyor	CITY OF EAU CLAIRE
Designer	AYRES ASSOCIATES, INC.
Project Manager	MATTHEW THORSEN, PE
Regional Examiner	NORTHWEST REGION
Regional Supervisor	ANDREW STENSLAND, PE

APPROVED FOR THE DEPARTMENT

DATE: 07/29/2020
(Signature)

E

GENERAL NOTES

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

NO TREES (AND/OR SHRUBS) ARE TO BE REMOVED WITHOUT THE APPROVAL OF THE ENGINEER.

EXCAVATION FOR STRUCTURES SHALL INCLUDE FURNISHING, PLACEMENT AND COMPACTION OF ANY FILL MATERIAL REQUIRED TO PROVIDE A SUITABLE FOUNDATION FOR SUBSTRUCTURE UNITS.

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

DISTURBED AREAS WITHIN THE RIGHT-OF-WAY, EXCLUSIVE OF THE ROADBED, SHALL BE FERTILIZED AND SODDED AS DIRECTED BY THE ENGINEER.

WHEN THE QUANTITY OF THE ITEM OF BASE AGGREGATE DENSE 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.

ASPHALTIC REMOVAL IS INCLUDED IN THE ITEM EXCAVATION COMMON.

TOPSOIL SHALL BE PLACED ON THE SLOPES, TO THE POINT OF INTERCEPT WITH THE ORIGINAL GROUND SHOWN ON THE CROSS SECTIONS.

THE DEPARTMENT OF TRANSPORTATION WILL FURNISH THE CONTRACTOR WITH A MONUMENT TO BE INSTALLED BY THE CONTRACTOR AS DIRECTED BY THE ENGINEER.

ELEVATIONS SHOWN ON THIS PLAN ARE REFERENCED TO THE DATUM NAVD88 (2012).

ASPHALT SURFACE SHALL USE 1/2" NOMINAL AGGREGATE SIZE.

UTILITIES

CHARTER COMMUNICATIONS
1201 McCANN DR.
ALTOONA, WI 54720
ATTN: SHANE YODER
715-831-8940 ext. 51113
Shane.Yoder@charter.com

AT&T
304 S. DEWEY STREET
EAU CLAIRE, WI 54701
ATTN: RICK PODOLAK
715-839-5565
715-410-0656 (cell)
rp4514@att.com

CITY OF EAU CLAIRE - UTILITIES
1040 FOREST STREET
EAU CLAIRE, WI 54703
ATTN: LANE BERG
715-839-5045
Lane.Berg@EauclaireWi.Gov

* * DENOTES UTILITIES THAT ARE NOT DIGGERS HOTLINE MEMBERS



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

CITY

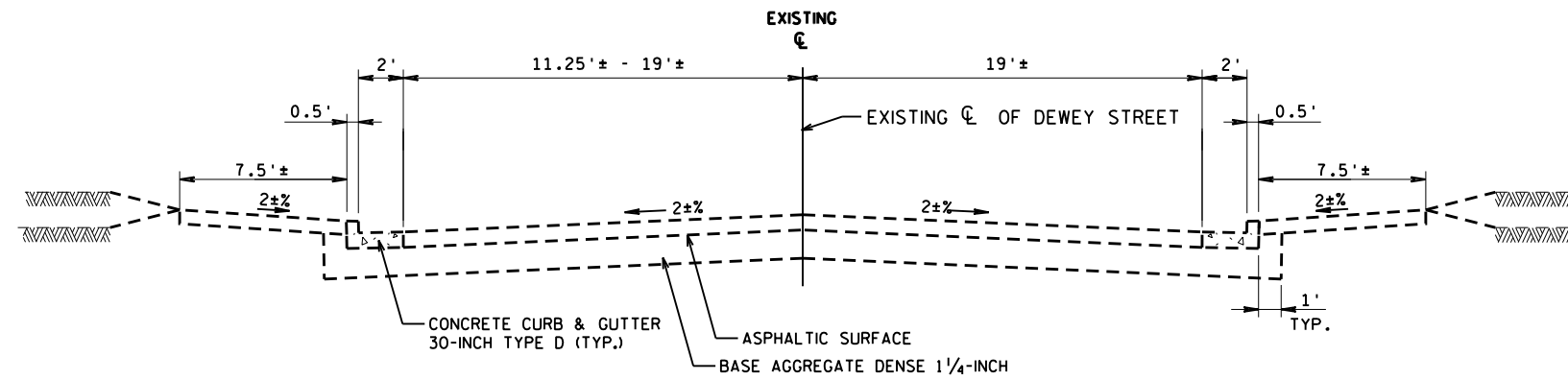
CITY OF EAU CLAIRE
2020 PRAIRIE LANE
EAU CLAIRE, WI 54703
ATTN: DAVID SOLBERG, PE, CITY ENGINEER
715-839-4939
Dave.Solberg@EauclaireWi.Gov

DESIGNER

AYRES ASSOCIATES
3433 OAKWOOD HILLS PARKWAY
EAU CLAIRE, WI 54701
ATTN: CHRIS McMAHON, PE
715-834-3161
mcmahonc@ayresassociates.com

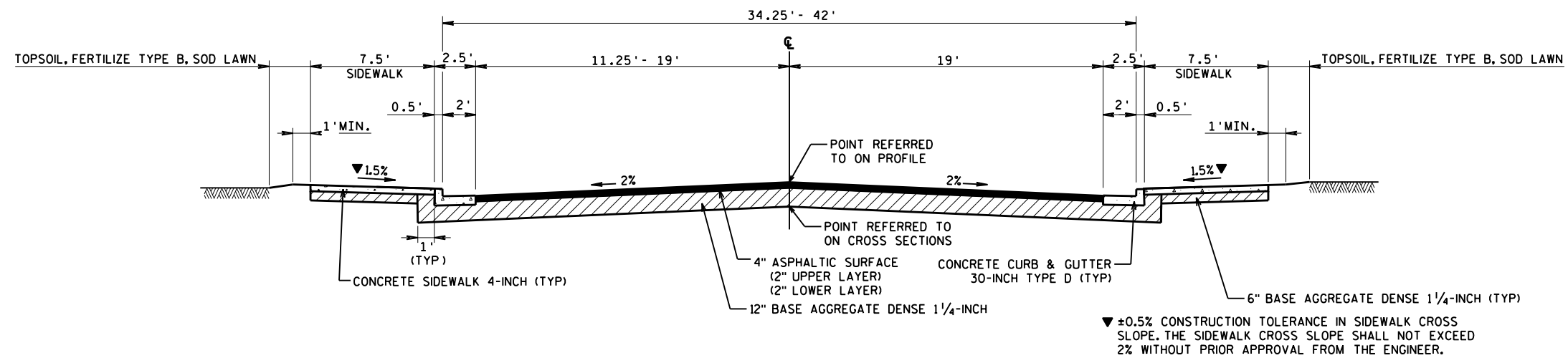
WISCONSIN DEPARTMENT OF
NATURAL RESOURCES CONTACT:

LEAH NICOL
1300 WEST CLAIREMONT AVENUE
EAU CLAIRE, WI 54701
715-934-9014
leah.nicol@wisconsin.gov



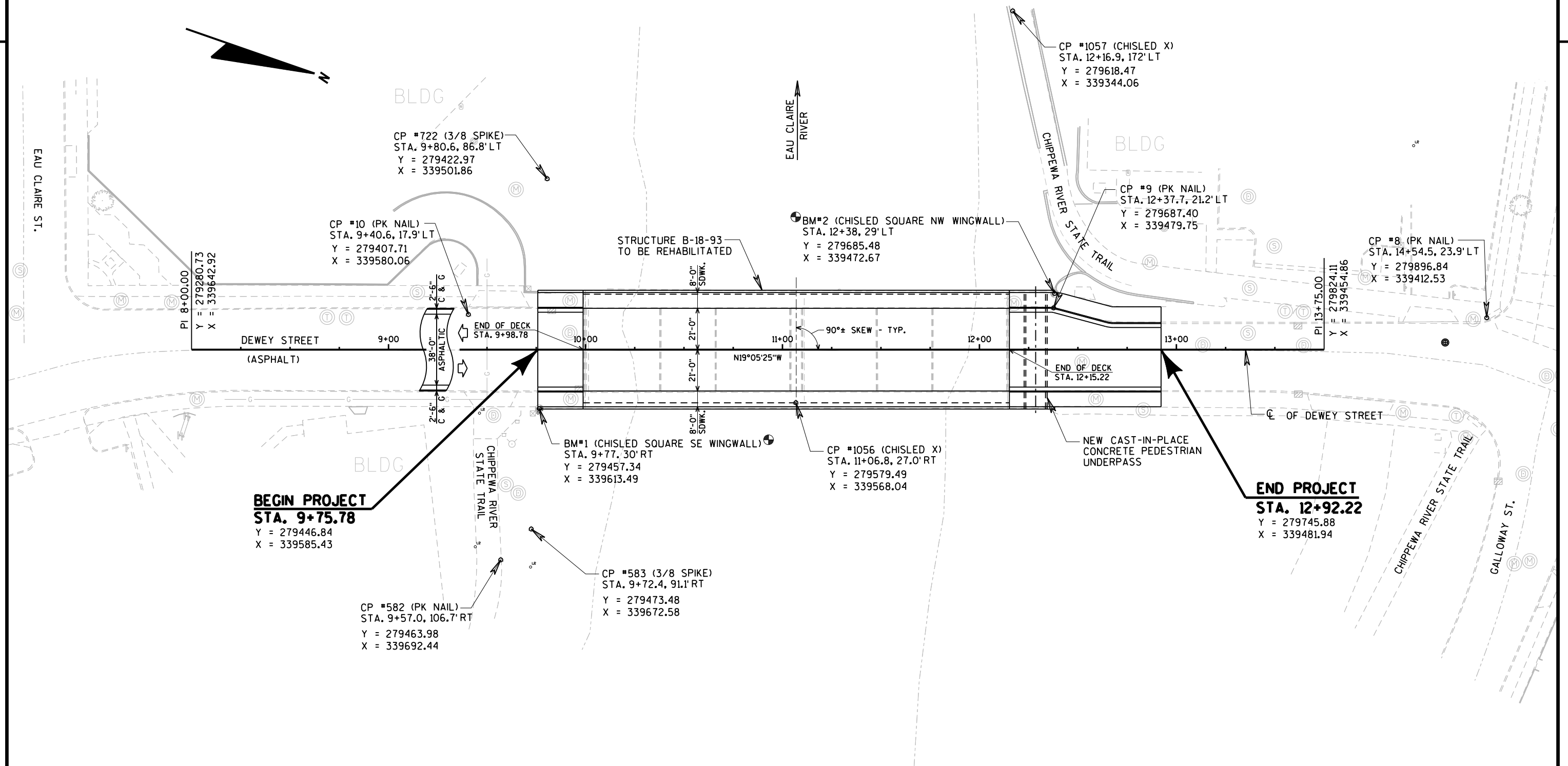
EXISTING TYPICAL SECTION

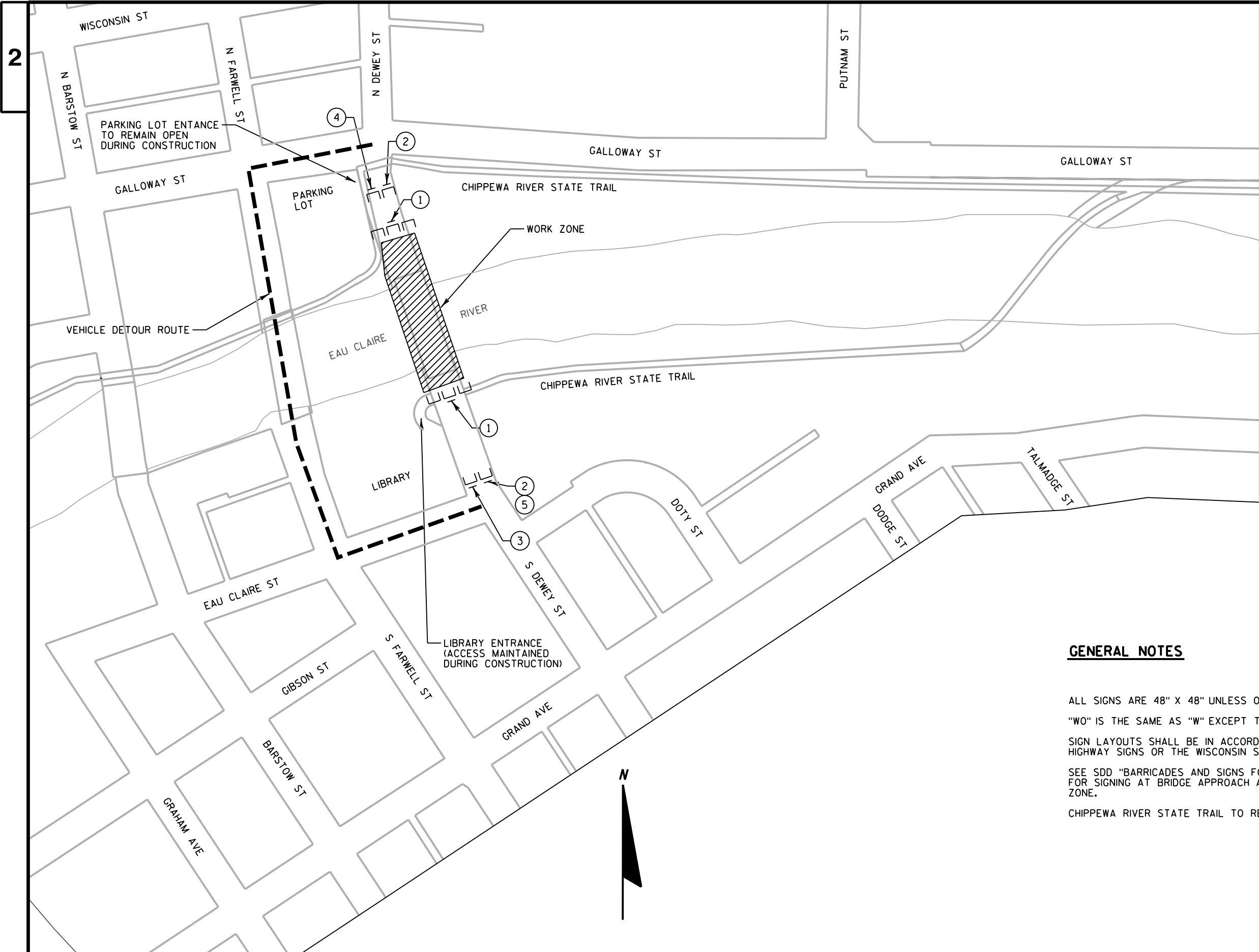
STA. 9+75.78 TO STA. 12+92.22



FINISHED TYPICAL SECTION

STA. 9+75.78 TO STA. 12+92.22





1

BRIDGE OUT

R11-2B
48" X 30"

2

ROAD CLOSED TO THRU TRAFFIC

R11-4
60" X 30"

3

DETOUR

M4-9L
30" X 24"

4

DETOUR

M4-9R
30" X 24"

5

ROAD OPEN TO LIBRARY

R10-61
60" X 30"

LEGEND

+

SIGN ON PERMANENT SUPPORT

[Barricade Symbol]

TYPE III BARRICADE WITH TWO (2) TYPE "A" FLASHING LIGHTS WITH SIGN

[Barricade Symbol]

TYPE III BARRICADE WITH ONE (1) TYPE "A" FLASHING LIGHT

GENERAL NOTES

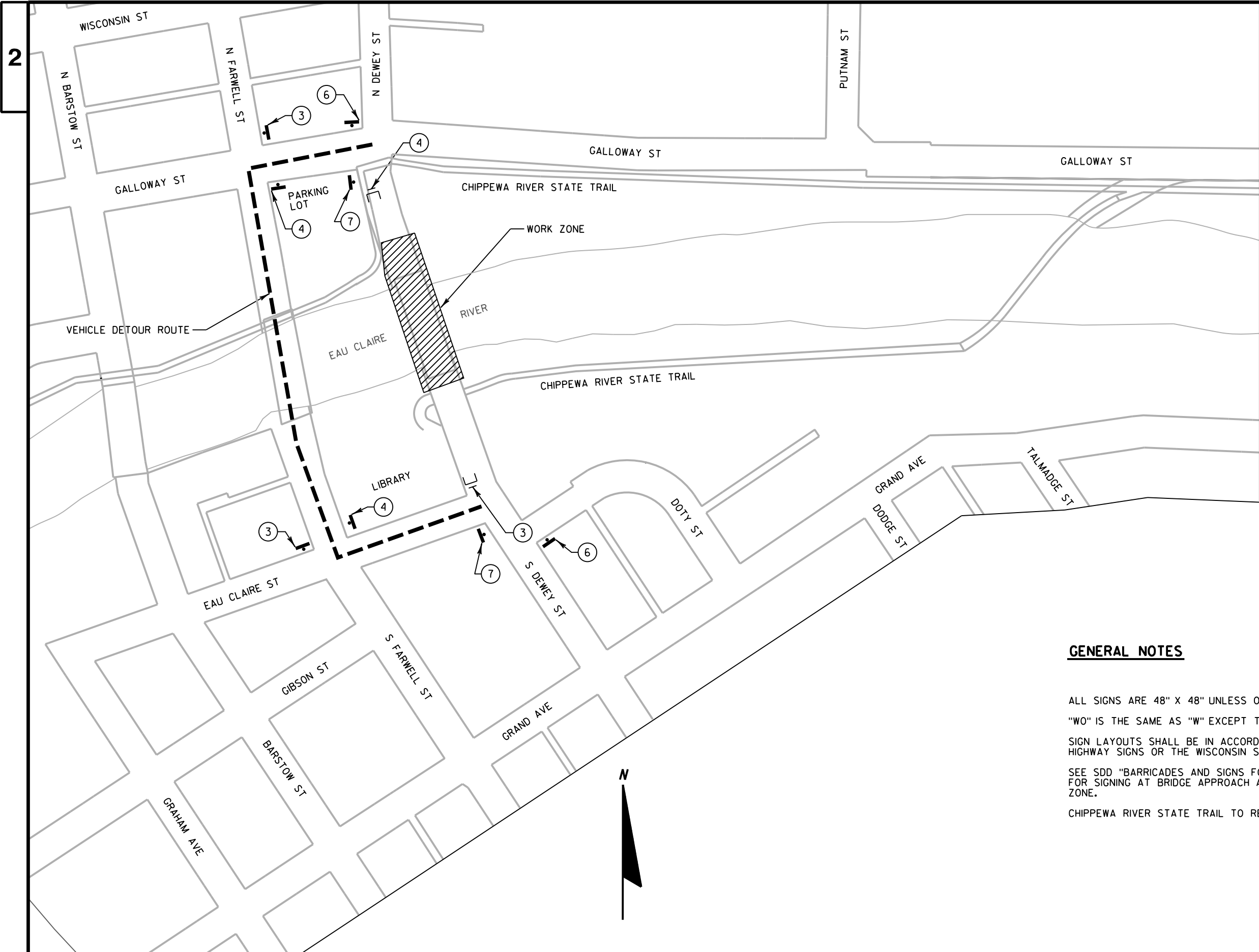
ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.

"WO" IS THE SAME AS "W" EXCEPT THE BACKGROUND IS ORANGE.

SIGN LAYOUTS SHALL BE IN ACCORDANCE WITH FHWA'S MANUAL OF STANDARD HIGHWAY SIGNS OR THE WISCONSIN STANDARD SIGN PLATES.

SEE SDD "BARRICADES AND SIGNS FOR MAINLINE CLOSURES" DETAIL B FOR SIGNING AT BRIDGE APPROACH AND ADVANCED AREAS LEADING TO THE WORK ZONE.

CHIPPEWA RIVER STATE TRAIL TO REMAIN OPEN DURING CONSTRUCTION.



3

DETOUR

M4-9L

30" X 24"

4

DETOUR

M4-9R

30" X 24"

6

DETOUR AHEAD

W20-2

7

END DETOUR

M4-8A

24" X 18"

LEGEND

+

SIGN ON PERMANENT SUPPORT

I

TYPE III BARRICADE WITH TWO (2) TYPE "A" FLASHING LIGHTS WITH SIGN

I

TYPE III BARRICADE WITH ONE (1) TYPE "A" FLASHING LIGHT

GENERAL NOTES

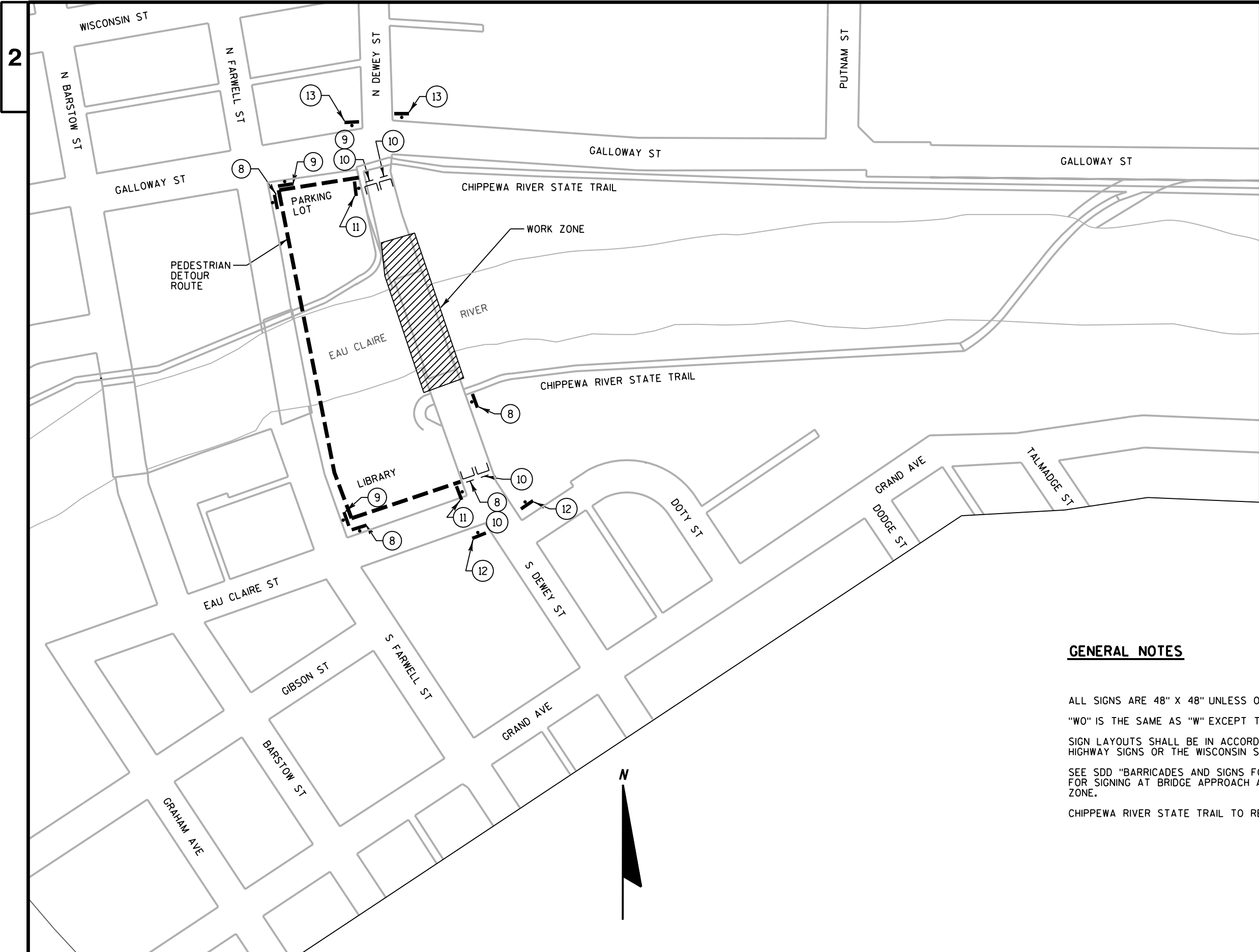
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CHIPPEWA RIVER STATE TRAIL TO REMAIN OPEN DURING CONSTRUCTION.



- | | |
|---------------------------|---------------------------|
| <div>8</div> <div></div> | <div>9</div> <div></div> |
| <div>10</div> <div></div> | <div>11</div> <div></div> |
| <div>12</div> <div></div> | <div>13</div> <div></div> |

LEGEND

-  SIGN ON PERMANENT SUPPORT
-  TYPE III BARRICADE WITH TWO (2) TYPE "A" FLASHING LIGHTS WITH SIGN
-  TYPE III BARRICADE WITH ONE (1) TYPE "A" FLASHING LIGHT

GENERAL NOTES

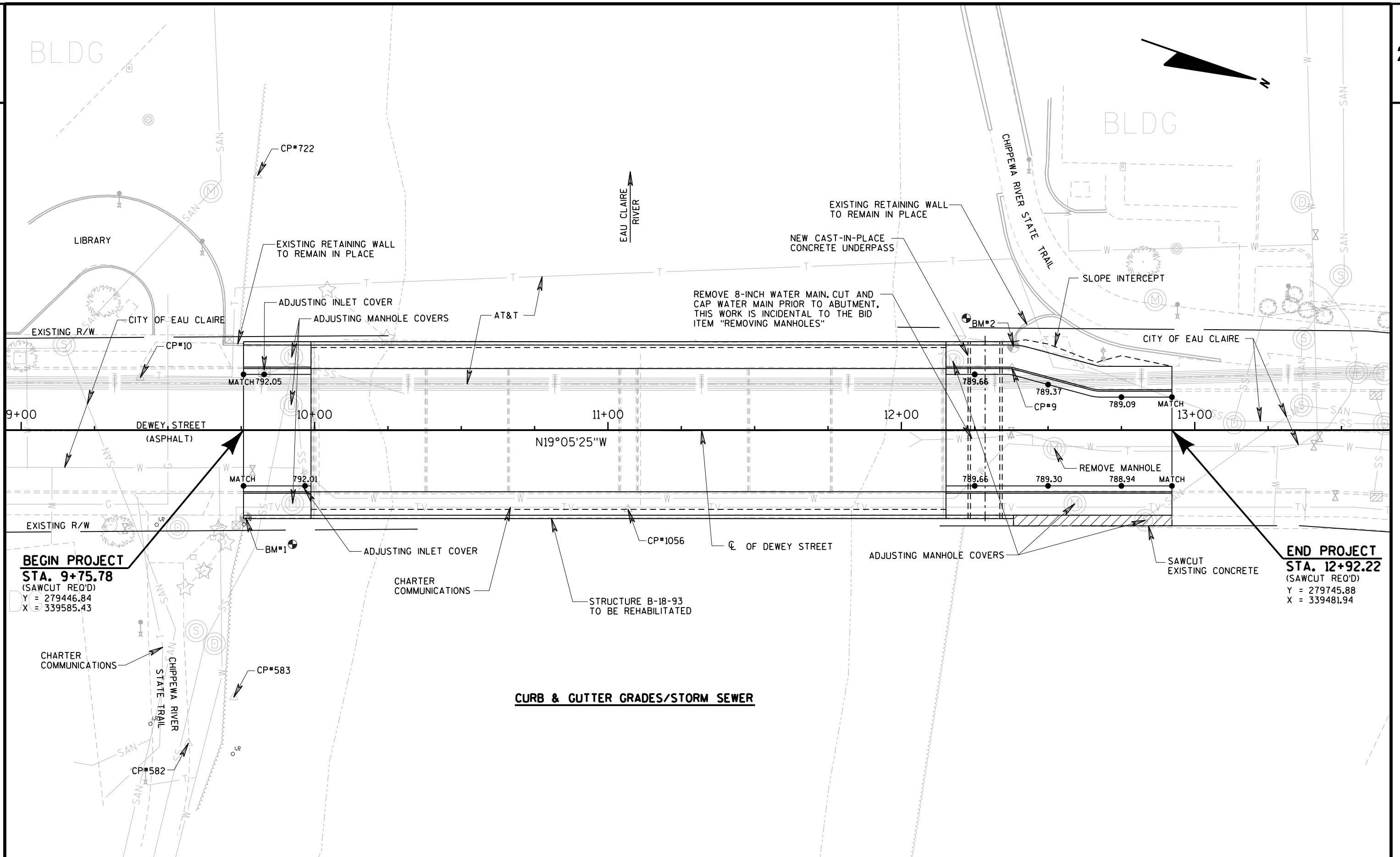
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SEE SDD "BARRICADES AND SIGNS FOR MAINLINE CLOSURES" DETAIL B FOR SIGNING AT BRIDGE APPROACH AND ADVANCED AREAS LEADING TO THE WORK ZONE.

CHIPPEWA RIVER STATE TRAIL TO REMAIN OPEN DURING CONSTRUCTION.



GENERAL NOTES

PIPE HANGERS SHALL BE PLACED TWO (2) HANGERS PER PIPE WITH ONE (1) HANGER PLACED ADJACENT TO EVERY JOINT AND ONE (1) PLACED AT THE MIDPOINT OF THE PIPE. SPACING NOT TO EXCEED 10 FT.

HANGER LAYOUT AND PIPE LENGTHS TO BE DETERMINED BY CONTRACTOR AND ILLUSTRATED ON SHOP DRAWINGS.

HANGERS SHALL BE ADJUSTABLE TWO-ROD ROLLER HANGER, FIGURE 260, PIPE SIZE 24 AS MANUFACTURED BY NATIONAL PIPE HANGER CORPORATION OR APPROVED EQUAL.

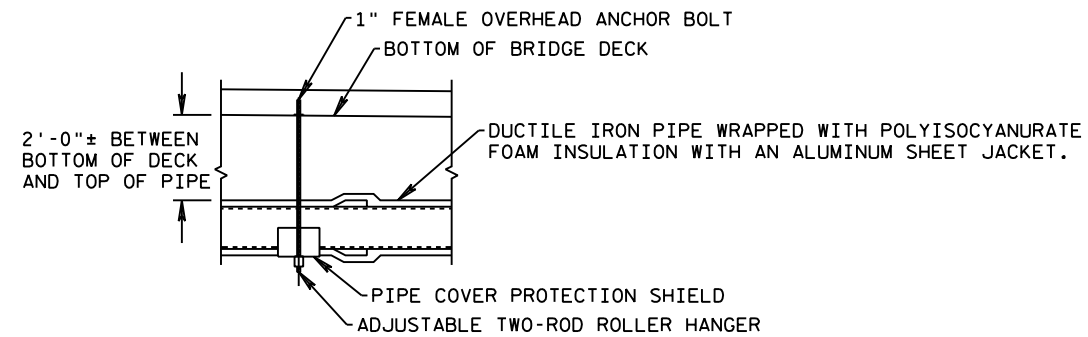
THERE SHALL BE A PIPE COVERING PROTECTION SHIELD, FIGURE 307 SHIELD SIZE NO. 25, AS MANUFACTURED BY NATIONAL PIPE HANGER CORPORATION OR APPROVED EQUAL.

ANCHOR BOLTS SHALL BE 1" DIA. FEMALE OVERHEAD ANCHOR BOLTS, FIGURE 561 AS MANUFACTURED BY NATIONAL PIPE HANGER CORPORATION OR AN APPROVED EQUAL.

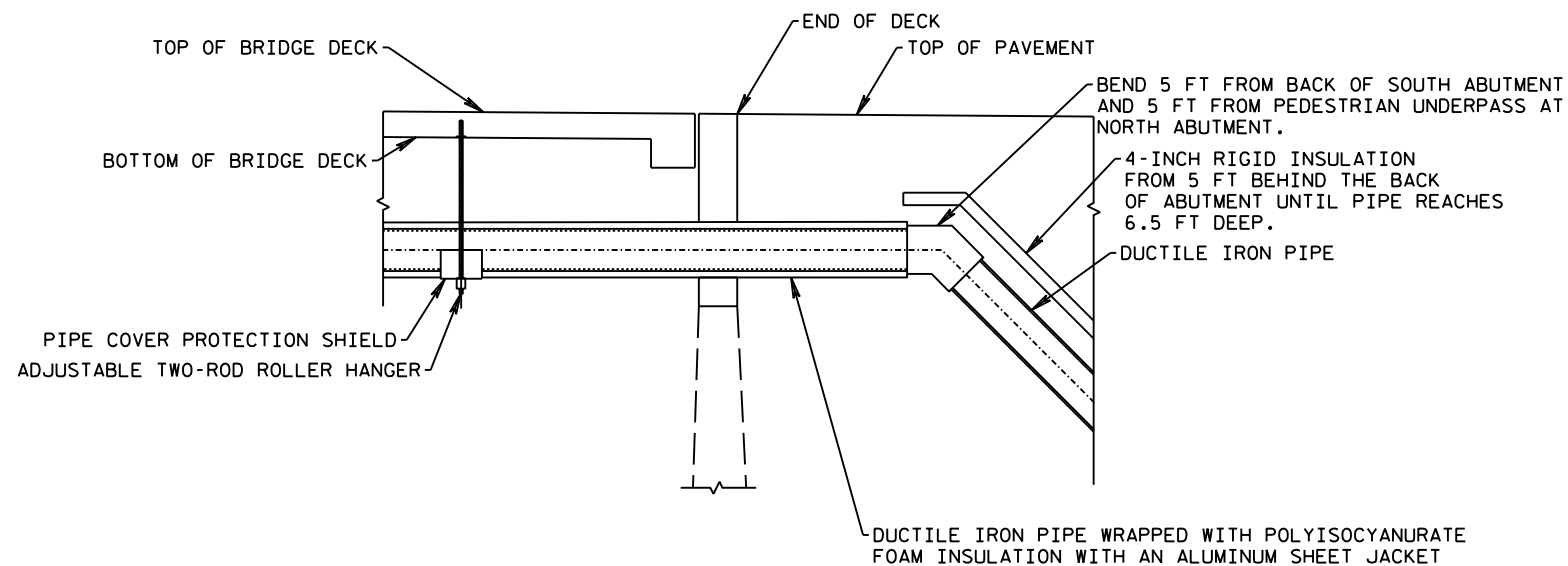
ALL PIPE HANGERS, RODS, BOLTS, NUTS AND WASHERS SHALL BE GALVANIZED FINISH.

ADDITIONAL DETAIL SHOWING CROSS SECTION OF PIPE HANGER CAN BE REFERENCED ON SHEET 2 OF STRUCTURE DESIGN.

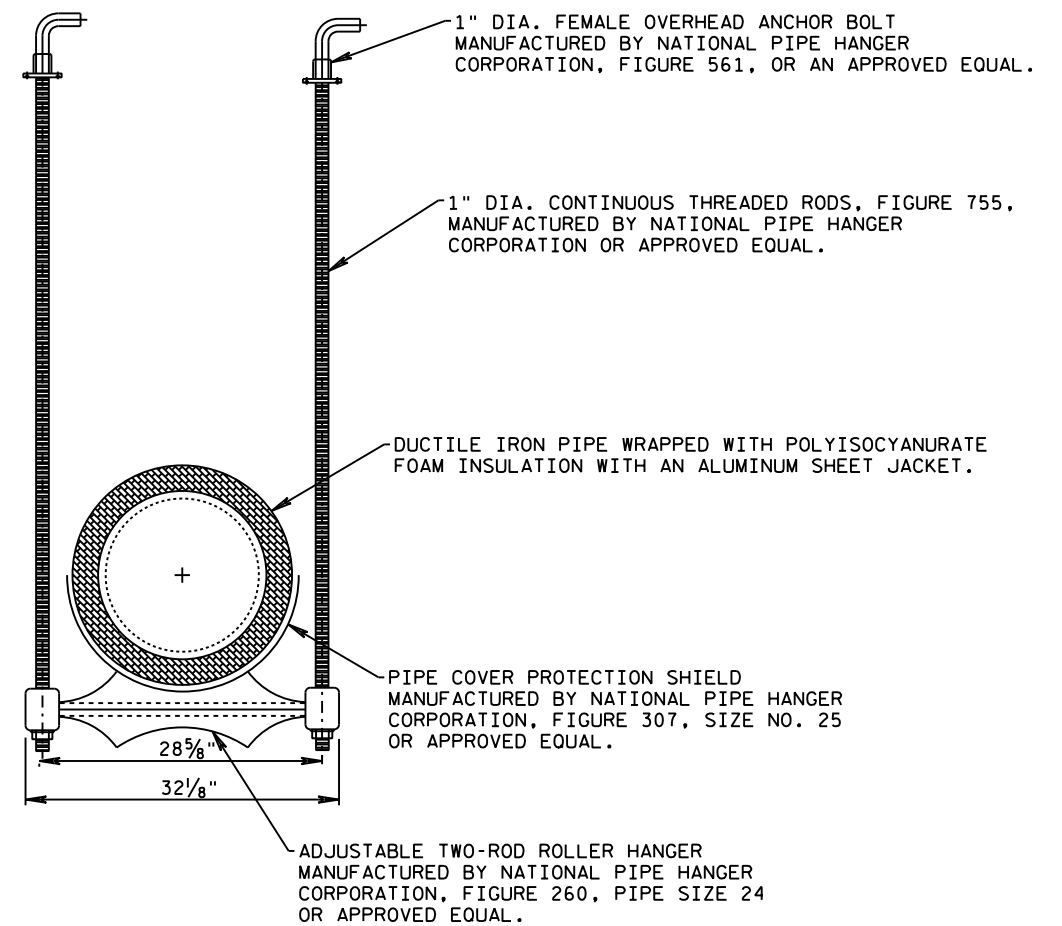
REMOVE 8-INCH WATER MAIN. CUT AND CAP WATER MAIN PRIOR TO ABUTMENT, THIS WORK IS INCIDENTAL TO THE BID ITEM "REMOVING MANHOLES".



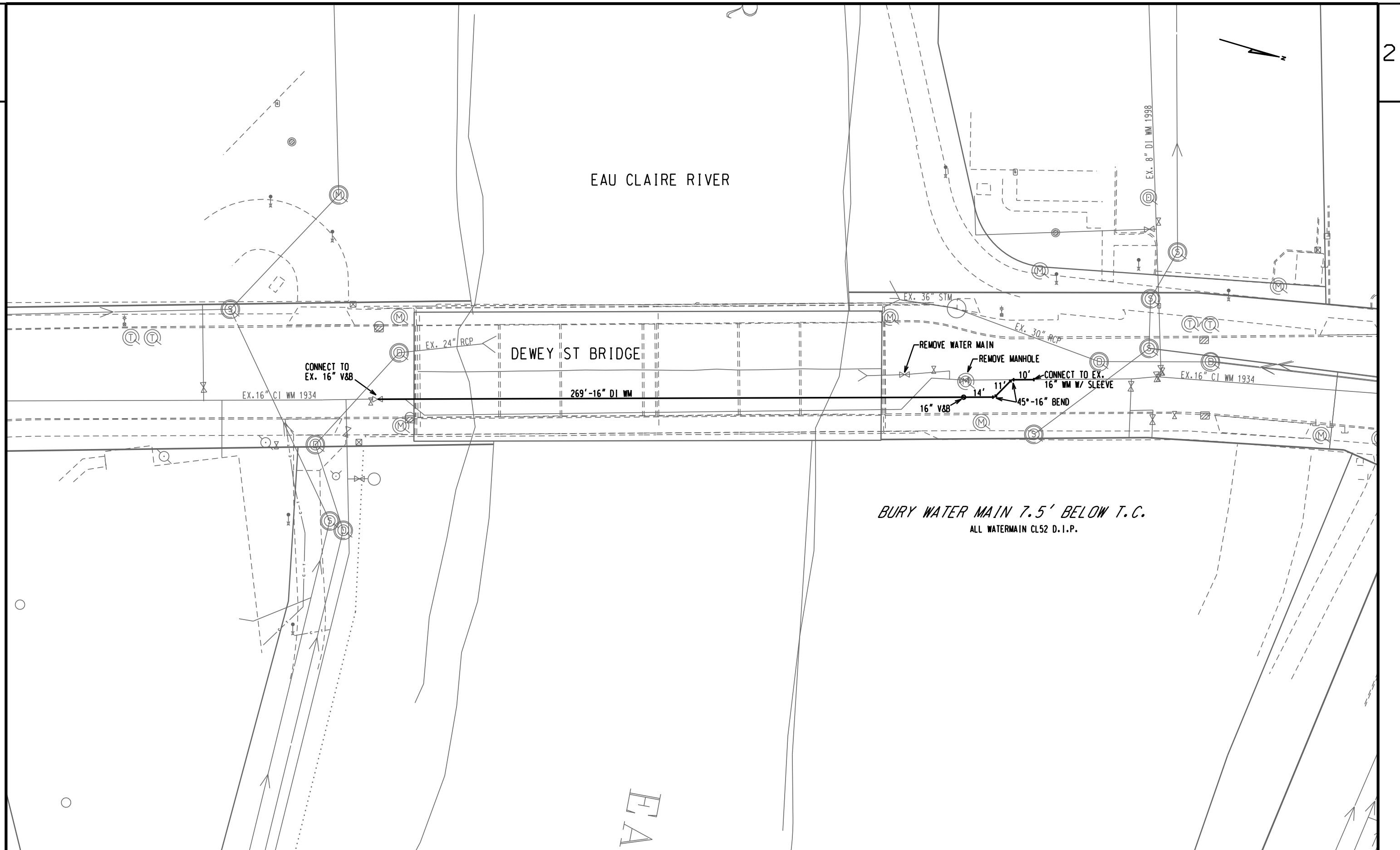
DETAIL A
PROFILE VIEW OF PIPE HANGER

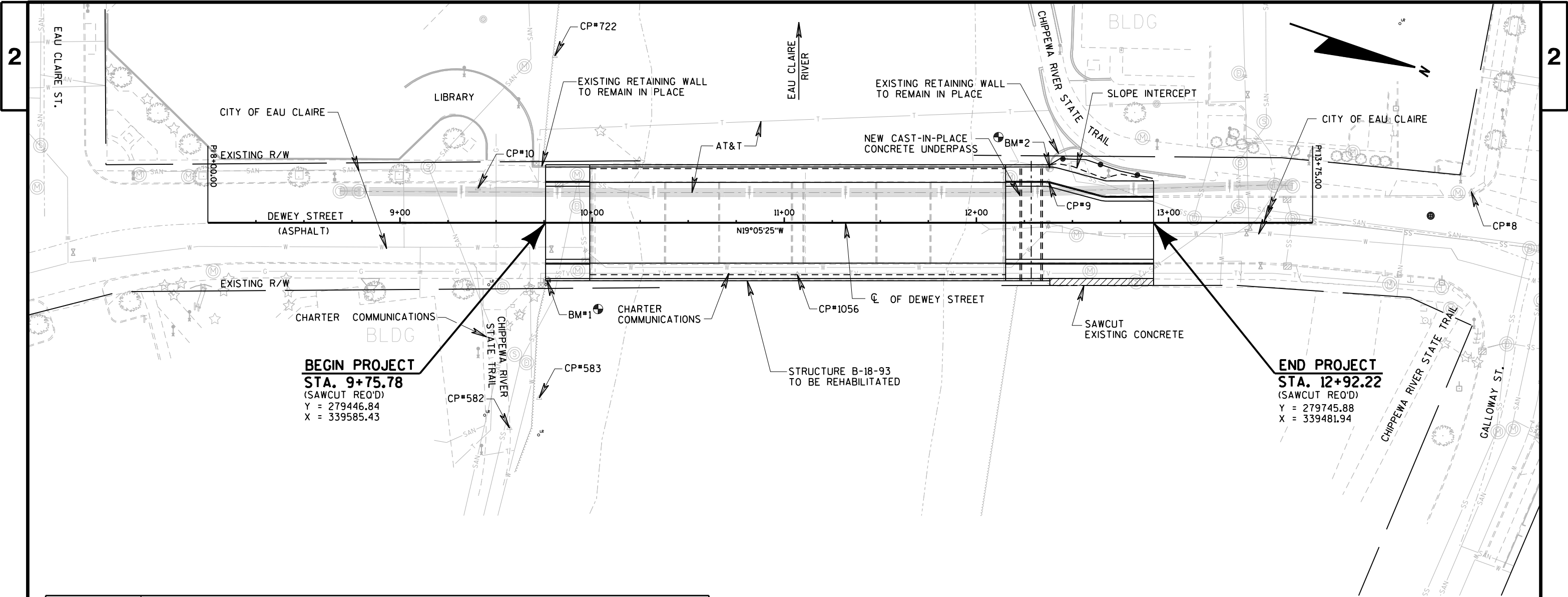


DETAIL B
CROSS SECTION AT ABUTMENT



DETAIL C
PIPE HANGER





	HYDROLOGIC SOIL GROUP											
	A			B			C			D		
	SLOPE RANGE (PERCENT)			SLOPE RANGE (PERCENT)			SLOPE RANGE (PERCENT)			SLOPE RANGE (PERCENT)		
LAND USE:	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER
ROW CROPS	.08 .22	.16 .30	.22 .38	.12 .26	.20 .34	.27 .44	.15 .30	.24 .37	.33 .50	.19 .34	.28 .41	.38 .56
MEDIAN STRIP-TURF	.19 .24	.20 .26	.24 .30	.19 .25	.22 .28	.26 .33	.20 .26	.23 .30	.30 .37	.20 .27	.25 .32	.30 .40
SIDE SLOPE-TURF			.25 .32			.27 .34			.28 .36			.30 .38
PAVEMENT:												
ASPHALT	.70 - .95											
CONCRETE	.80 - .95											
BRICK	.70 - .80											
DRIVES, WALKS	.75 - .85											
ROOFS	.75 - .95											
GRAVEL ROADS, SHOULDERS	.40 - .60											

TOTAL PROJECT AREA = 0.48 ACRES
TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = 0.44 ACRES

HIGH WATER 2 EL. 762.1

LEGEND
● — ● SILT FENCE

Estimate Of Quantities

7995-02-48					
Line	Item	Item Description	Unit	Total	Qty
0002	203.0600.S	Removing Old Structure Over Waterway With Minimal Debris (station) 01. 11+07	LS	1.000	1.000
0004	204.0150	Removing Curb & Gutter	LF	201.000	201.000
0006	204.0155	Removing Concrete Sidewalk	SY	192.000	192.000
0008	204.0210	Removing Manholes	EACH	1.000	1.000
0010	205.0100	Excavation Common	CY	220.000	220.000
0012	206.1000	Excavation for Structures Bridges (structure) 01. B-18-93	LS	1.000	1.000
0014	206.1000	Excavation for Structures Bridges (structure) 02. B-18-93	LS	1.000	1.000
0016	210.1500	Backfill Structure Type A	TON	2,070.000	2,070.000
0018	213.0100	Finishing Roadway (project) 01. 7995-02-48	EACH	1.000	1.000
0020	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	375.000	375.000
0022	311.0110	Breaker Run	TON	75.000	75.000
0024	455.0605	Tack Coat	GAL	28.000	28.000
0026	465.0105	Asphaltic Surface	TON	90.000	90.000
0028	502.0100	Concrete Masonry Bridges	CY	1,301.000	1,301.000
0030	502.3101	Expansion Device 01. B-18-93	LF	460.000	460.000
0032	502.3200	Protective Surface Treatment	SY	1,420.000	1,420.000
0034	502.3210	Pigmented Surface Sealer	SY	275.000	275.000
0036	502.4205	Adhesive Anchors No. 5 Bar	EACH	2,264.000	2,264.000
0038	505.0400	Bar Steel Reinforcement HS Structures	LB	15,760.000	15,760.000
0040	505.0600	Bar Steel Reinforcement HS Coated Structures	LB	222,490.000	222,490.000
0042	509.1500	Concrete Surface Repair	SF	3,700.000	3,700.000
0044	516.0500	Rubberized Membrane Waterproofing	SY	85.000	85.000
0046	516.0610.S	Sheet Membrane Waterproofing for Top Slab (structure) 01. B-18-93	SY	225.000	225.000
0048	517.1010.S	Concrete Staining (structure) 01. B-18-93	SF	30,700.000	30,700.000
0050	601.0411	Concrete Curb & Gutter 30-Inch Type D	LF	201.000	201.000
0052	602.0405	Concrete Sidewalk 4-Inch	SF	1,516.000	1,516.000
0054	606.0300	Riprap Heavy	CY	10.000	10.000
0056	611.8110	Adjusting Manhole Covers	EACH	6.000	6.000
0058	611.8115	Adjusting Inlet Covers	EACH	2.000	2.000
0060	618.0100	Maintenance And Repair of Haul Roads (project) 01. 7995-02-48	EACH	1.000	1.000
0062	619.1000	Mobilization	EACH	1.000	1.000
0064	624.0100	Water	MGAL	12.000	12.000
0066	625.0100	Topsoil	SY	220.000	220.000
0068	628.1504	Silt Fence	LF	75.000	75.000
0070	628.1520	Silt Fence Maintenance	LF	525.000	525.000
0072	628.1905	Mobilizations Erosion Control	EACH	4.000	4.000

Estimate Of Quantities

7995-02-48

Line	Item	Item Description	Unit	Total	Qty
0074	628.1910	Mobilizations Emergency Erosion Control	EACH	4.000	4.000
0076	628.7504	Temporary Ditch Checks	LF	50.000	50.000
0078	629.0210	Fertilizer Type B	CWT	0.100	0.100
0080	631.0300	Sod Water	MGAL	5.000	5.000
0082	631.1000	Sod Lawn	SY	220.000	220.000
0084	638.2602	Removing Signs Type II	EACH	13.000	13.000
0086	638.3000	Removing Small Sign Supports	EACH	4.000	4.000
0088	642.5001	Field Office Type B	EACH	1.000	1.000
0090	643.0420	Traffic Control Barricades Type III	DAY	6,390.000	6,390.000
0092	643.0705	Traffic Control Warning Lights Type A	DAY	9,940.000	9,940.000
0094	643.0900	Traffic Control Signs	DAY	11,005.000	11,005.000
0096	643.5000	Traffic Control	EACH	1.000	1.000
0098	645.0105	Geotextile Type C	SY	130.000	130.000
0100	645.0111	Geotextile Type DF Schedule A	SY	100.000	100.000
0102	646.1020	Marking Line Epoxy 4-Inch	LF	668.000	668.000
0104	650.4500	Construction Staking Subgrade	LF	100.000	100.000
0106	650.5000	Construction Staking Base	LF	100.000	100.000
0108	650.5500	Construction Staking Curb Gutter and Curb & Gutter	LF	201.000	201.000
0110	650.6500	Construction Staking Structure Layout (structure) 01. B-18-93	LS	1.000	1.000
0112	650.9910	Construction Staking Supplemental Control (project) 01. 7995-02-48	LS	1.000	1.000
0114	650.9920	Construction Staking Slope Stakes	LF	100.000	100.000
0116	652.0125	Conduit Rigid Metallic 2-Inch	LF	50.000	50.000
0118	652.0225	Conduit Rigid Nonmetallic Schedule 40 2-Inch	LF	220.000	220.000
0120	653.0222	Junction Boxes 18x12x6-Inch	EACH	2.000	2.000
0122	690.0150	Sawing Asphalt	LF	68.000	68.000
0124	690.0250	Sawing Concrete	LF	101.500	101.500
0126	715.0502	Incentive Strength Concrete Structures	DOL	7,806.000	7,806.000
0128	ASP.1T0A	On-the-Job Training Apprentice at \$5.00/HR	HRS	900.000	900.000
0130	ASP.1T0G	On-the-Job Training Graduate at \$5.00/HR	HRS	990.000	990.000
0132	SPV.0090	Special 01. Parapet Concrete Type 'TX	LF	525.000	525.000
0134	SPV.0090	Special 02. 16-Inch Ductile Iron Water Main Class 52	LF	304.000	304.000
0136	SPV.0105	Special 01. Attachment of Hangers for Conduit Pack	LS	1.000	1.000
0138	SPV.0165	Special 01. Overhead Concrete Surface Repair	SF	1,760.000	1,760.000

DEWEY STREET EARTHWORK SUMMARY									
From/To Station	Location	Excavation Common (1) (item # 205.0100)	Salvaged / Unuseable Pavement Material (5)	Unexpanded Fill	Expanded Fill (2)	Mass Ordinate +/- (3)	Waste	Borrow (item #208.0100)	Comment:
		Cut			Factor 1.30				
9+75.78 - 12+92.22	DEWEY STREET	220	110	2	3	107	107	0	

- 1) Excavation Common is the Cut. Item number 205.0100.
- 2) Expanded Fill. Factor = 1.30; Expanded Fill = Unexpanded Fill * Fill Factor
- 3) The Mass Ordinate + or - Qty calculated for the Division. Plus quantity indicates an excess of material on the project.
- 4) All quantities shown in CY.
- 5) Existing existing salvaged/unuseable asphalt pavement.

REMOVALS

				204.0150 REMOVING CURB & GUTTER	204.0155 REMOVING CONCRETE SIDEWALK
STATION	TO	STATION	LOC	LF	SY
9+75.78	-	9+98.78	LT	23	19
9+75.78	-	9+98.78	RT	23	19
12+15.22	-	12+92.22	LT	78	68
12+15.22	-	12+92.22	RT	77	86
TOTALS				201	192

PAVING AND BASE QUANTITIES

			305.0120 BASE AGGREGATE DENSE 1 1/4-INCH	455.0605 TACK COAT	465.0105 ASPHALTIC SURFACE
STA	TO	STA	TON	GAL	TON
9+75.78	-	9+98.78	90	7	20
12+15.22	-	12+92.22	265	20	65
UNDISTRIBUTED			20	1	5
TOTALS			375	28	90

ALL QUANTITIES CATEGORY 0010 UNLESS OTHERWISE NOTED

CONCRETE					
		601.0411 CONCRETE CURB & GUTTER 30-INCH TYPE D		602.0405 CONCRETE SIDEWALK 4-INCH	
STATION	TO	STATION	LOC	LF	SF
9+75.78	-	9+98.78	LT	23	173
9+75.78	-	9+98.78	RT	23	173
12+15.22	-	12+92.22	LT	78	612
12+15.22	-	12+92.22	RT	77	558
TOTALS				201	1,516

MISCELLANEOUS STORM SEWER					
			611.8110 ADJUSTING MANHOLE COVERS	611.8115 ADJUSTING INLET COVERS	204.0210 REMOVING MANHOLES*
CATEGORY	STATION	LOC	EACH	EACH	EACH
0010	9+83	LT	--	1	--
0010	9+97	RT	--	1	--
0010	9+92	LT	2	--	--
0010	9+93	RT	1	--	--
0010	12+18	LT	1	--	--
0030	12+52	RT	--	--	1
0010	12+59	RT	1	--	--
0010	12+83	RT	1	--	--
TOTALS			6	2	1
CATEGORY 0010 TOTALS			6	2	--
CATEGORY 0030 TOTALS			--	--	1

* THE WORK REQUIRED TO REMOVE THE EXISTING 8-INCH WATER MAIN, CUT AND CAP THE WATER MAIN PRIOR TO ABUTMENT IS INCIDENTAL TO THE BID ITEM "REMOVING MANHOLES".

WATER	
PURPOSE	624.0100 WATER MGAL
COMPACTION	6
DUST CONTROL	6
TOTAL	12

<u>EROSION CONTROL ITEMS</u>									
				625.0100	628.1504	628.1520	629.0210	631.1000	631.0300
				TOPSOIL	SILT FENCE	SILT FENCE	FERTILIZER	SOD	SOD
						MAINTENANCE	TYPE B	LAWN	WATER
STA	TO	STA	LOCATION	SY	LF	LF	CWT	SY	MGAL
12+15.22	--	12+92.22	LT	45	60	420	0.0	45	1
12+15.22	--	12+92.22	RT	130	--	--	0.1	130	3
UNDISTRIBUTED				45	15	105	0.0	45	1
TOTALS				220	75	525	0.1	220	5

ALL QUANTITIES CATEGORY 0010 UNLESS OTHERWISE NOTED

EROSION CONTROL MOBILIZATION ITEMS

	628.1905 MOBILIZATIONS EROSION CONTROL	628.1910 MOBILIZATIONS EMERGENCY EROSION CONTROL
LOCATION	EACH	EACH
ID 7995-02-48	4	4
TOTALS	4	4

TEMPORARY DITCH CHECKS

	628.7504 LF
LOCATION	
UNDISTRIBUTED	50
TOTAL	50

SIGNS

	638.2602 REMOVING SIGNS TYPE II	638.3000 REMOVING SMALL SIGN SUPPORTS	
STATION	LOCATION	EACH	EACH
9+95	RT	2	1
10+10	LT	2	--
11+10	RT	2	1
11+29	LT	2	--
11+89	RT	2	1
12+16	LT	3	1
TOTALS		13	4

NO PARKING 2AM - 6PM THIS BLOCK, 2 HR
PARKING 6AM-6PM EXCEPT WEEKDAYS
NO PARKING 2AM - 6PM THIS BLOCK, 2 HR
PARKING 6AM-6PM EXCEPT WEEKDAYS
NO PARKING 2AM - 6PM THIS BLOCK, 2 HR
PARKING 6AM-6PM EXCEPT WEEKDAYS
NO PARKING 2AM - 6PM THIS BLOCK, 2 HR
PARKING 6AM-6PM EXCEPT WEEKDAYS
NO PARKING 2AM - 6PM THIS BLOCK, 2 HR
PARKING 6AM-6PM EXCEPT WEEKDAYS
NO PARKING 2AM - 6PM THIS BLOCK, 2 HR
PARKING 6AM-6PM EXCEPT WEEKDAYS, NO
PARKING HERE TO CORNER

NOTE: SALVAGE SIGNS TO THE CITY OF EAU CLAIRE

TRAFFIC CONTROL ITEMS

	643.0420 BARRICADES TYPE III	643.0705 WARNING LIGHTS TYPE A	643.0900 SIGNS
LOCATION	DURATION DAYS	NO.	DAY
PER SDD "BARRICADES AND SIGNS FOR MAINLINE CLOSURES"	355	18	6,390
PER DETOUR PLAN	355	--	--
PER PEDESTRIAN DETOUR PLAN	355	--	--
DEWEY STREET	--	--	--
TOTALS			

TRAFFIC CONTROL PLACEMENT SUBJECT TO ENGINEER APPROVAL

ALL QUANTITIES CATEGORY 0010 UNLESS OTHERWISE NOTED

STAKING ITEMS

		650.4500	650.5000	650.5500	650.9920
		CONSTRUCTION	CONSTRUCTION	CURB GUTTER AND	CONSTRUCTION
		STAKING	STAKING	CURB & GUTTER	STAKING
		SUBGRADE	BASE		SLOPE
					STAKES
CATEGORY	LOCATION	LF	LF	LF	LF
0010	9+75.78 - 12+92.22	100	100	201	100
TOTALS		100	100	201	100

MARKING LINE EPOXY 4-INCH

STA	TO	STA	DESCRIPTION	646.1020 YELLOW LF
9+75.78	-	12+92.22	DOUBLE CENTERLINE	633
			UNDISTRIBUTED	35
TOTAL				668

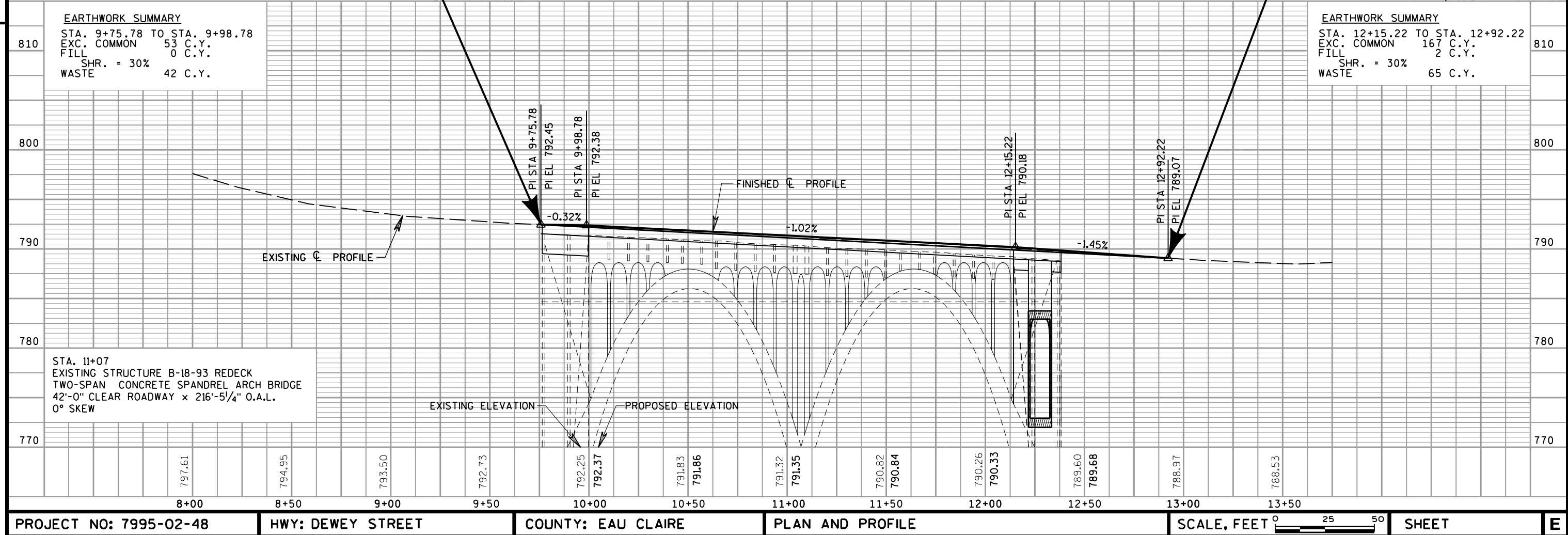
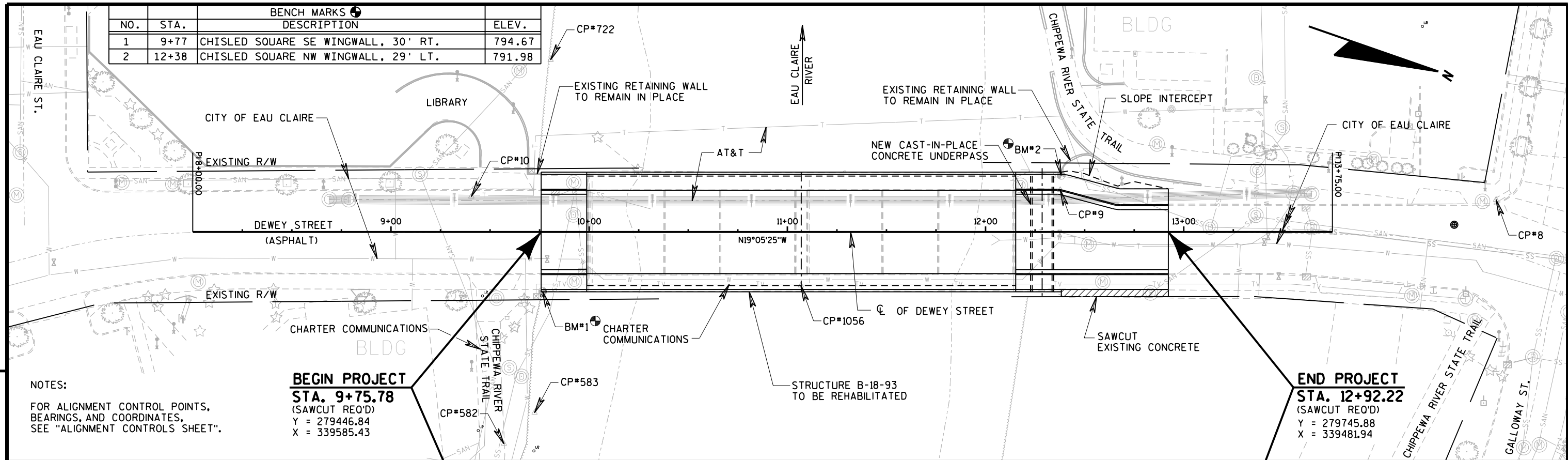
16-INCH DUCTILE IRON WATER MAIN CLASS 52

CATEGORY	LOCATION	SPV.0090.02 LF
0030	DEWEY STREET	304
TOTAL		304

SAWING

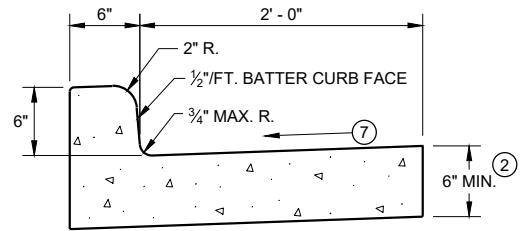
				690.0150 ASPHALT LF	690.0250 CONCRETE LF	NOTES
STA	TO	STA	LOCATION			
	9+75.78		LT & RT	38	--	ROADWAY
	9+75.78		RT	--	2.5	CURB & GUTTER
	9+75.78		LT	--	2.5	CURB & GUTTER
	9+75.78		RT	--	7.5	SIDEWALK
	9+75.78		LT	--	7.5	SIDEWALK
	12+92.22		LT & RT	30	--	ROADWAY
	12+92.22		RT	--	2.5	CURB & GUTTER
	12+92.22		LT	--	2.5	CURB & GUTTER
	12+92.22		RT	--	7.5	SIDEWALK
	12+92.22		LT	--	8	SIDEWALK
	12+38.22	12+92.22	RT	--	61	SIDEWALK
TOTAL				68	101.5	

ALL QUANTITIES CATEGORY 0010 UNLESS OTHERWISE NOTED

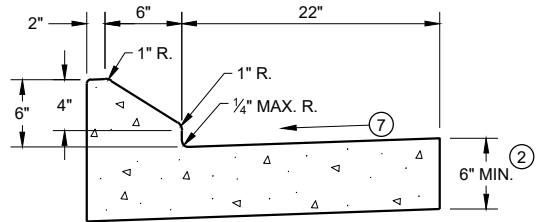


Standard Detail Drawing List

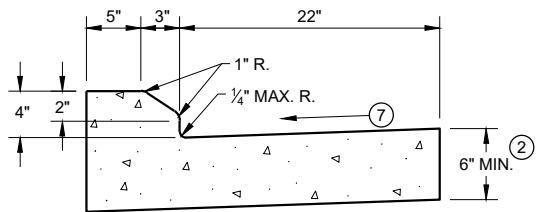
08D01-21A	CONCRETE CURB & GUTTER
08D01-21B	CONCRETE CURB, TIES AND CURB AND GUTTER APPLICATIONS
08E09-06	SILT FENCE
12A03-10	NAME PLATE (STRUCTURES)
15C02-08A	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-08B	BARRICADES AND SIGNS FOR VARIOUS CLOSURES
15C02-08C	DETOUR SIGNING FOR MAINLINE CLOSURES
15C06-09	SIGNING & MARKING FOR TWO LANE BRIDGES
15C08-20A	LONGITUDINAL MARKING (MAINLINE)
15D38-02A	TEMPORARY TRAFFIC CONTROL SIGN MOUNTING
15D38-02B	ATTACHMENT OF SIGNS TO POSTS



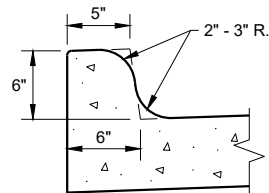
TYPES A^① & D



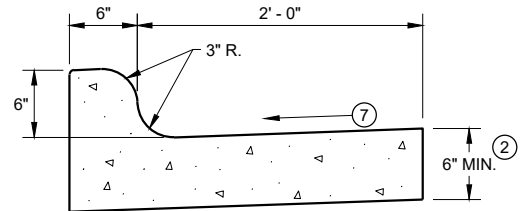
6" SLOPED CURB TYPES G^① & J



4" SLOPED CURB TYPES G^① & J

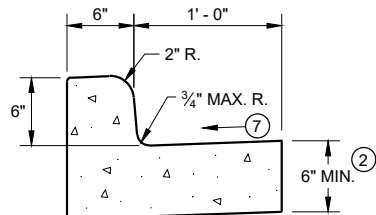


TYPES K^① & L
(OPTIONAL CURB SHAPE)



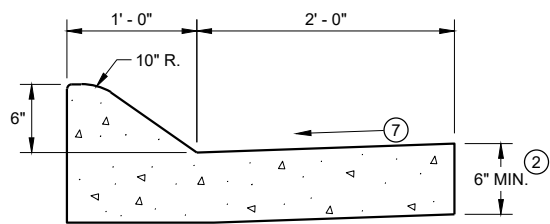
TYPES K^① & L

CONCRETE CURB AND GUTTER 30"

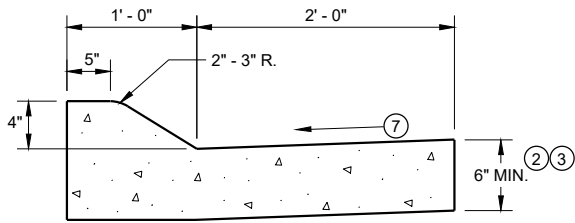


TYPES A^① & D

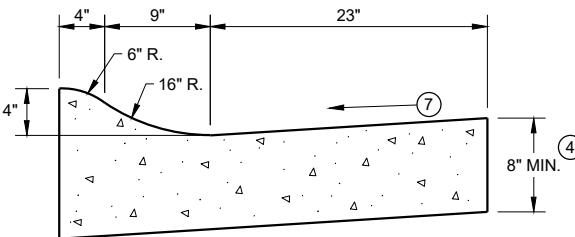
CONCRETE CURB AND GUTTER 18"



6" SLOPED CURB TYPES A^① & D



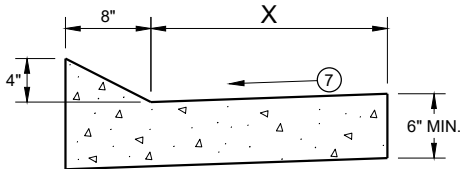
4" SLOPED CURB TYPES A^① & D



4" SLOPED CURB TYPES R^① & T^⑤

CONCRETE CURB AND GUTTER 36"

TBT & TBTT	X
30"	22"
36"	28"

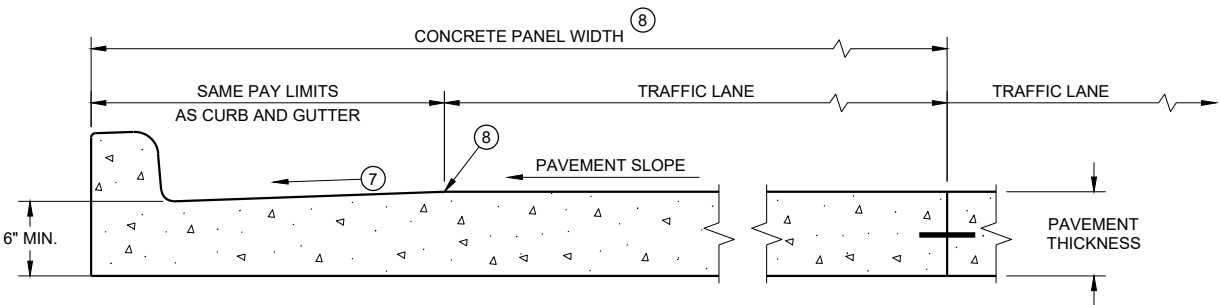


TYPES TBT & TBTT^①

CONCRETE CURB AND GUTTER

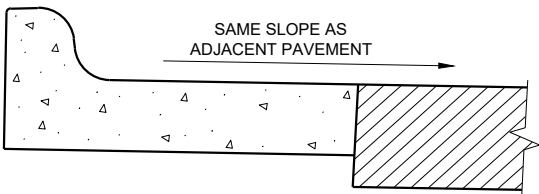
PAVEMENT THICKNESS
AND MAXIMUM CONCRETE
PANEL WIDTH TABLE

PAVEMENT THICKNESS	MAXIMUM PANEL WIDTH
LESS THAN 10"	12'
10" & ABOVE	15'



PARTIAL SECTION OF PAVEMENT *
WITH INTEGRAL CURB AND GUTTER

* BIKE LANE IS NOT SHOWN



REVERSE SLOPE GUTTER^⑥
(TYPICAL FOR ALL CURB & GUTTER TYPES)

GENERAL NOTES

DETAILS OF CONSTRUCTION AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

PAVEMENT TIES AND TIE BARS SHALL BE EPOXY COATED IN CONFORMANCE WITH SUBSECTION 505.2.6.2 OF THE STANDARD SPECIFICATIONS.

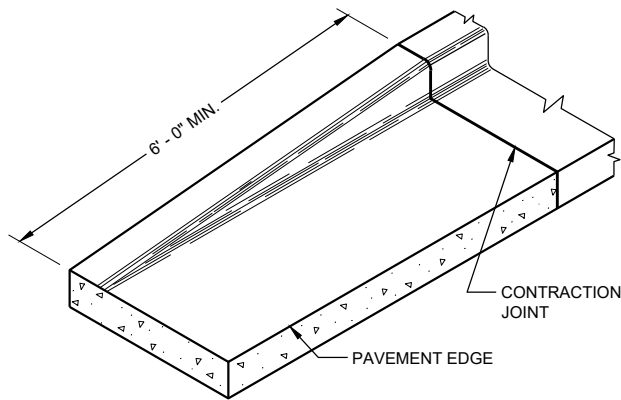
INTEGRAL CURB AND GUTTER SHALL CONFORM TO THE DETAILS SHOWN FOR CONCRETE CURB AND GUTTER INCLUDING THE TRANSVERSE GUTTER SLOPE.

UNLESS OTHERWISE SHOWN ON THE TYPICAL CROSS SECTIONS, THE BASE AGGREGATE AND COMMON EXCAVATION LIMITS ARE 2' - 0" BEHIND THE BACK OF CURBS.

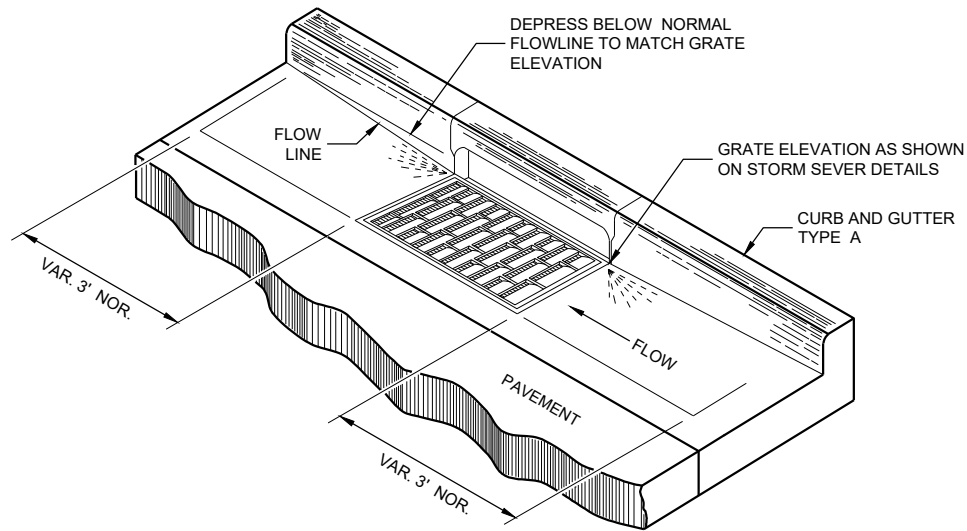
- ① TIE BARS ARE REQUIRED FOR CURB AND GUTTERS TYPES A, G, K, R, AND TBTT.
- ② THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE AGGREGATE PROVIDED A 6" MINIMUM GUTTER THICKNESS IS MAINTAINED.
- ③ USE 8" MINIMUM GUTTER THICKNESS WHEN USED WITH AN ADJACENT CONCRETE TRUCK APRON PLACED BEHIND BACK OF CURB.
- ④ THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE AGGREGATE PROVIDED A 8" MINIMUM GUTTER THICKNESS IS MAINTAINED.
- ⑤ THE FACE OF CURB IS 6" FROM THE BACK OF CURB.
- ⑥ WHEN REVERSE SLOPE GUTTER IS REQUIRED, THE LOCATION(S) WILL BE SHOWN ELSEWHERE IN THE PLAN.
- ⑦ USE 4% GUTTER CROSS SLOPE UNLESS OTHERWISE NOTED IN THE PLANS.
- ⑧ INCLUDE LONGITUDINAL JOINT AND TIE BARS ALONG LANE EDGE WHEN CONCRETE PANEL WIDTH EXCEEDS THE MAXIMUM WIDTH PER TABLE BELOW. LONGITUDINAL JOINT(S) ARE NOT ALLOWED WITHIN TRAFFIC LANES AND BIKE LANES. LONGITUDINAL JOINT MAY BE SAWED.

CONCRETE CURB AND GUTTER

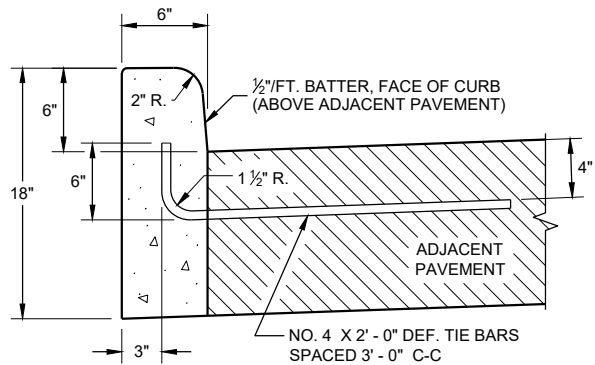
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION



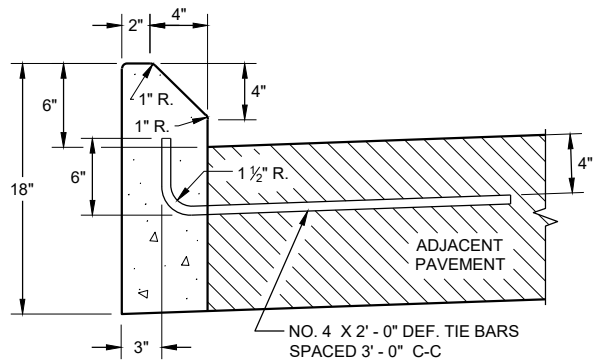
END SECTION CURB AND GUTTER



DETAIL OF CURB AND GUTTER AT INLETS
(TYPICAL H INLET COVER SHOWN)

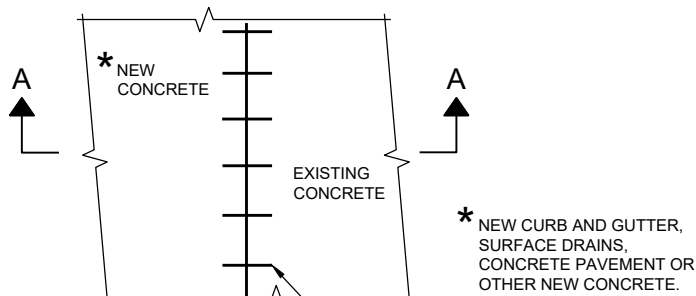


TYPES A^① & D

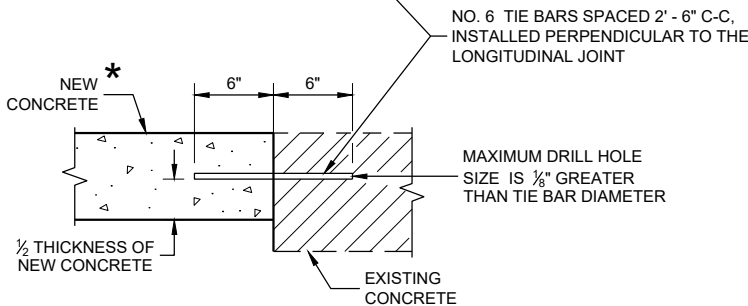


TYPES G^① & J

CONCRETE CURB



PLAN VIEW



SECTION A - A

TIE BARS DRILLED
INTO EXISTING PAVEMENT

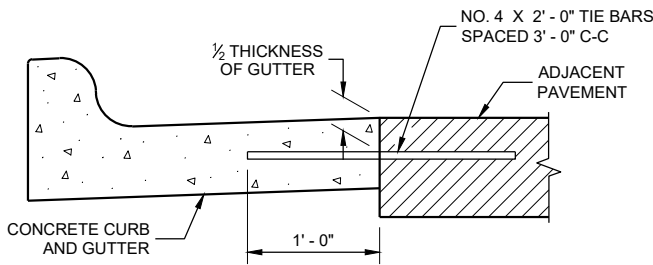
GENERAL NOTES

DETAILS OF CONSTRUCTION AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

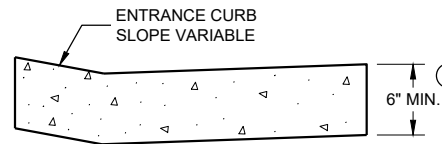
PAVEMENT TIES AND TIE BARS SHALL BE EPOXY COATED IN CONFORMANCE WITH SUBSECTION 505.2.6.2 OF THE STANDARD SPECIFICATIONS.

UNLESS OTHERWISE SHOWN ON THE TYPICAL CROSS SECTIONS, THE BASE AGGREGATE AND COMMON EXCAVATION LIMITS ARE 2' - 0" BEHIND THE BACK OF CURBS.

- ① TIE BARS ARE REQUIRED FOR CURB AND GUTTERS TYPES A, G, K, R, AND TBTT.
- ② THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE AGGREGATE PROVIDED A 6" MINIMUM GUTTER THICKNESS IS MAINTAINED.
- ⑨ REFER TO SDD 08D18 AND 08D19 FOR ADDITIONAL DRIVEWAY ENTRANCE CURB DETAILS.



TYPICAL TIE BAR LOCATION^①



DRIVEWAY ENTRANCE CURB^⑨
(WHEN DIRECTED BY THE ENGINEER)

CONCRETE CURB, TIES AND CURB AND GUTTER APPLICATIONS

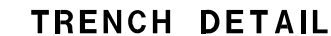
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2020
DATE /S/ Rodney Taylor
ROADWAY STANDARDS DEVELOPMENT
ENGINEER

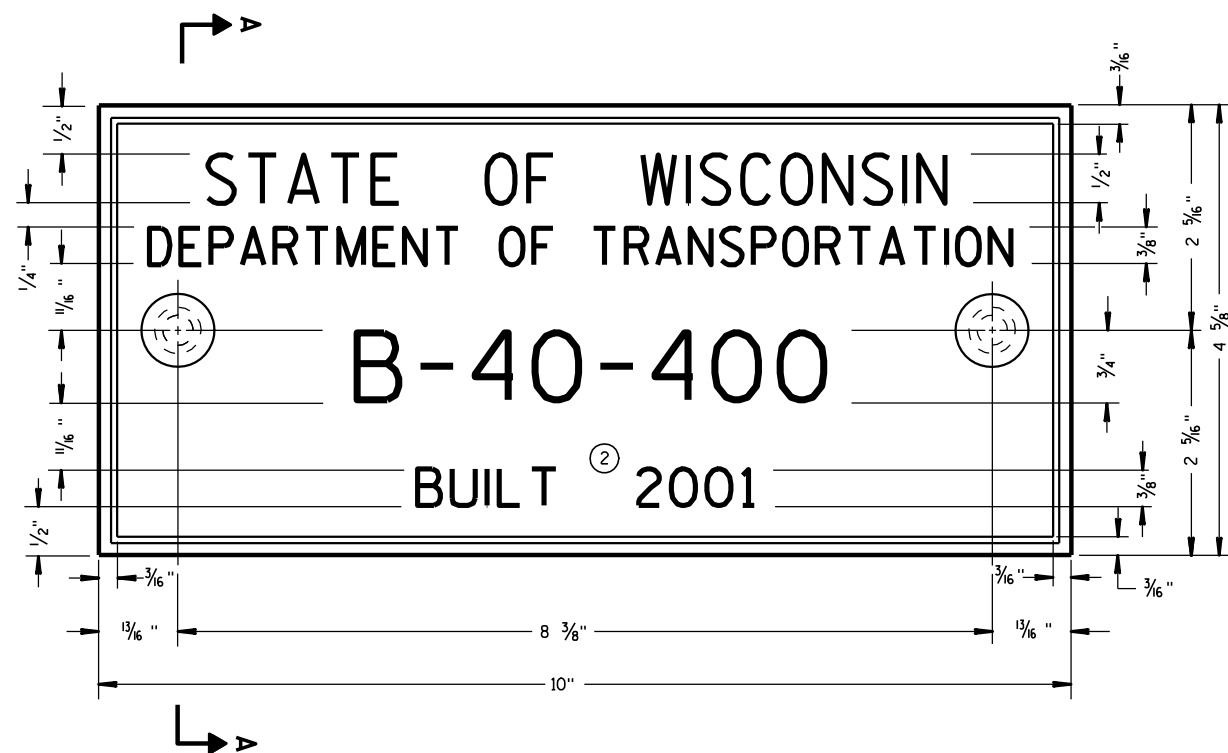
FHWA



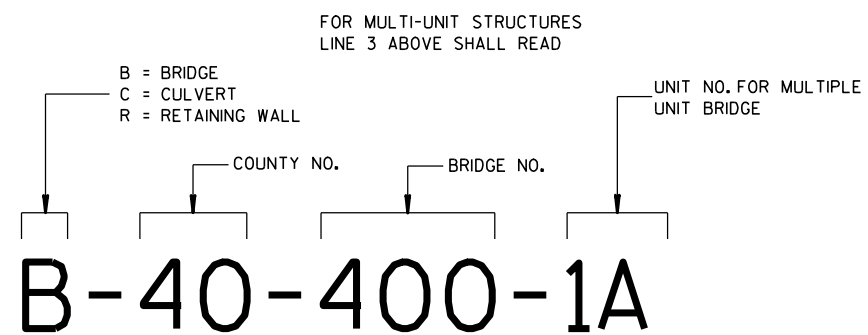
- ① HORIZONTAL BRACE REQUIRED WITH 2" X 4" WOODEN FRAME OR EQUIVALENT AT TOP OF POSTS.
- ② FOR MANUAL INSTALLATIONS THE TRENCH SHALL BE A MINIMUM OF 4" WIDE & 6" DEEP TO BURY AND ANCHOR THE GEOTEXTILE FABRIC. FOLD MATERIAL TO FIT TRENCH AND BACKFILL & COMPACT TRENCH WITH EXCAVATED SOIL.
- ③ WOOD POSTS SHALL BE A MINIMUM SIZE OF 1½" X 1½" 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.



SILT FENCE	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED <u>4-29-05</u> DATE	<u>/S/ Beth Canestra</u> CHIEF ROADWAY DEVELOPMENT ENGINEER



TYPICAL NAME PLATE
(BRIDGES, CULVERTS, AND RETAINING WALLS)



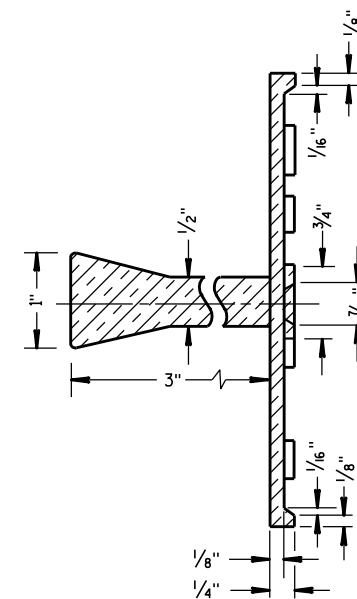
**NUMBERING DESIGNATION
MULTI-UNIT STRUCTURES**

GENERAL NOTES

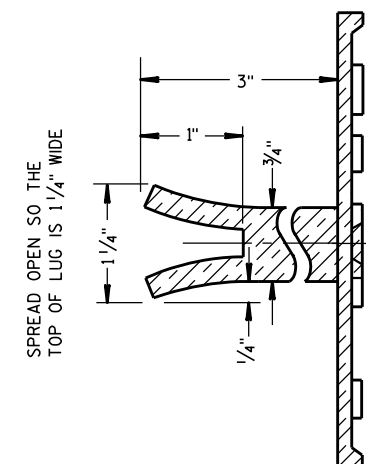
NAME PLATES TO BE INSTALLED ON BRIDGES, CULVERTS, AND RETAINING WALLS SHALL CONFORM TO THE REQUIREMENTS OF SECTION 502.3.11 OF THE STANDARD SPECIFICATIONS.

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

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

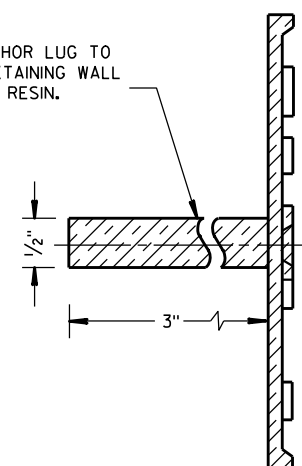


SECTION A-A



ALTERNATE LUG

- ① ADHERE ANCHOR LUG TO PRECAST RETAINING WALL WITH EPOXY RESIN.



ALTERNATE LUG
(FOR ATTACHMENT TO PRECAST STRUCTURES)

**NAME PLATE
(STRUCTURES)**

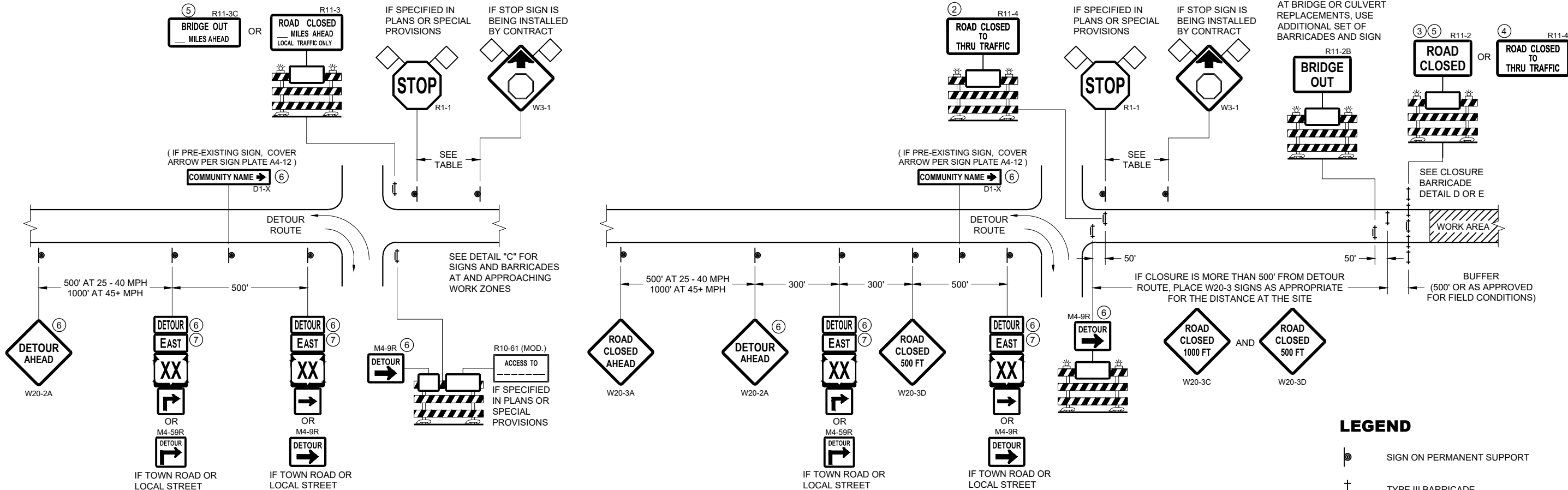
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

3/26/10
DATE

FHWA

/S/ Scot Becker
CHIEF STRUCTURAL DEVELOPMENT ENGINEER

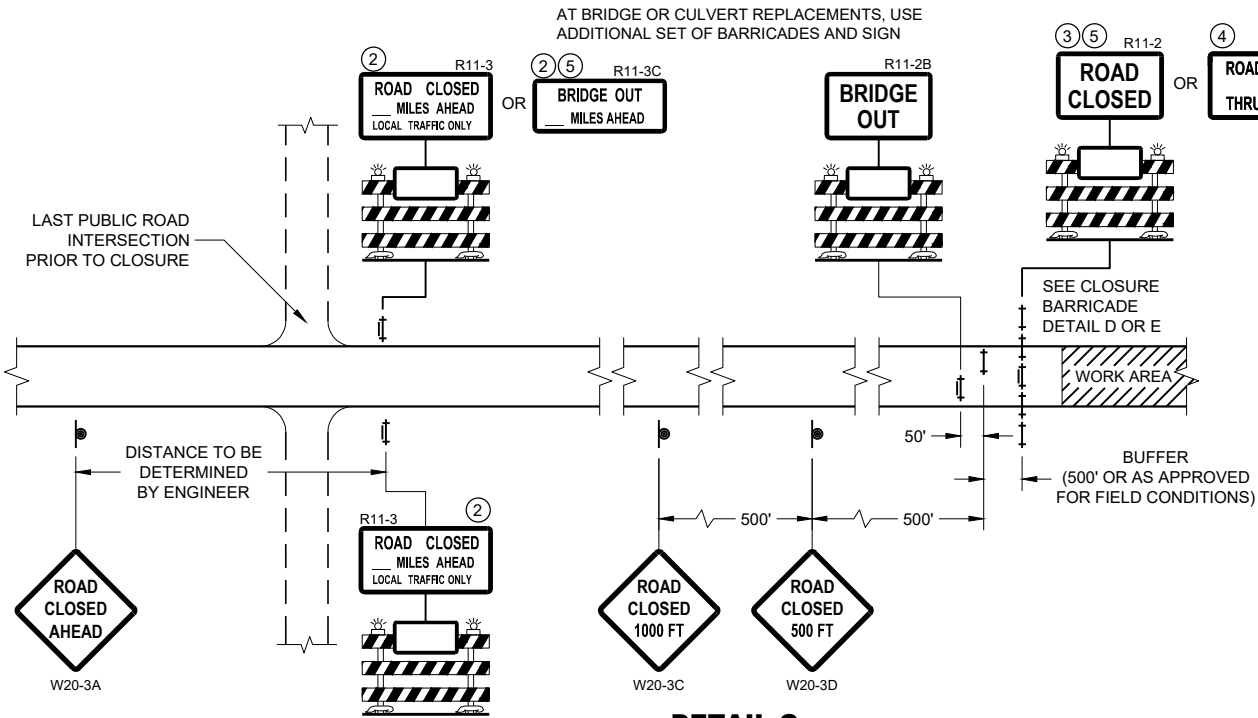


DETAIL A
MAINLINE CLOSURE WITH POSTED DETOUR

WORK ZONE GREATER THAN OR EQUAL TO 1/2 MILE FROM
DETOUR ROUTE (1000 FEET IF URBAN)

DETAIL B
MAINLINE CLOSURE WITH POSTED DETOUR

WORK ZONE LESS THAN 1/2 MILE FROM
DETOUR ROUTE (1000 FEET IF URBAN)



DETAIL C
MAINLINE CLOSURE, NO POSTED DETOUR

SPEED LIMIT (MPH)	"STOP AHEAD" ADVANCE WARNING DISTANCE (FT)
25	200
30	200
35	350
40	350
45	500
50	550
55	750

SEE SDD 15C2-SHEET "b"
FOR GENERAL NOTES
AND FOOTNOTES ① THROUGH ⑦

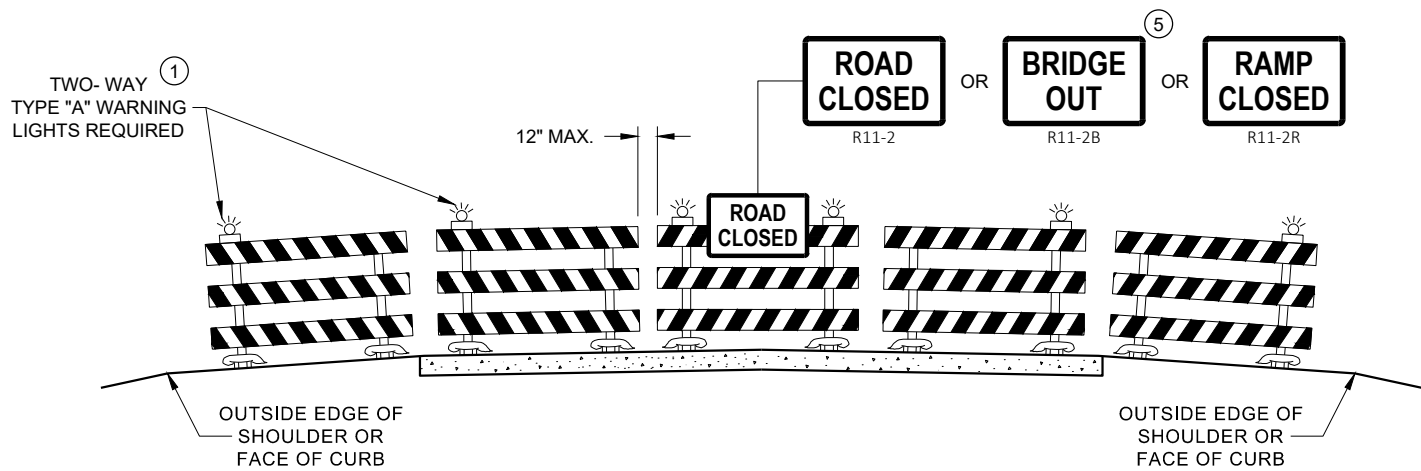
LEGEND

- SIGN ON PERMANENT SUPPORT
- TYPE III BARRICADE
- TYPE III BARRICADE WITH ATTACHED SIGN
- TYPE "A" WARNING LIGHT (FLASHING)
- WORK AREA
- FLAGS, 16" X 16" MIN. (ORANGE)
- DETOUR M4 - 8
- EAST M3 - X
- XX M1 - 4 OR XX M1 - 6 OR COUNTY X M1 - 5A
- M05 - 1 OR M06 - 1

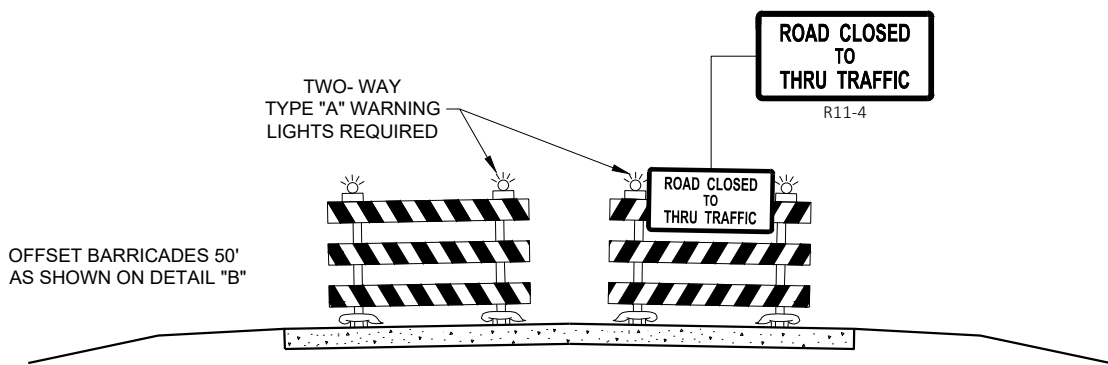
**BARRICADES AND SIGNS
FOR MAINLINE CLOSURES**

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2020 /S/ Andrew Heidtke
DATE WORK ZONE ENGINEER
FHWA



DETAIL D
ROAD CLOSURE BARRICADE DETAIL
APPROACH VIEW



DETAIL E
LANE CLOSURE BARRICADE DETAIL
APPROACH VIEW

SEE SDD 15C2 - SHEET "a" FOR LEGEND

GENERAL NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND BARRICADES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE", SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

BARRICADES THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY RE-ESTABLISHED UPON COMPLETION OF THE OPERATION, OR FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

ALL TYPE III BARRICADES SHALL HAVE RAILS REFLECTORIZED ON BOTH FACES. STRIPES SHALL BE PROPERLY SLOPED DOWN TOWARD THE TRAFFIC SIDE OR AS SHOWN IN THE ROAD CLOSURE BARRICADE DETAIL "D" FOR FULL ROAD CLOSURES.

TYPE "A" LOW - INTENSITY FLASHING WARNING LIGHTS SHALL BE VISIBLE ON BOTH SIDES OF THE BARRICADE.

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

"WO" AND "MO" SIGNS ARE THE SAME AS "W" AND "M" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

ALL SIGNS SHALL BE 48" X 48" UNLESS OTHERWISE NOTED BELOW:

- R11 - 2 SHALL BE 48" X 30"
- R11 - 3 SHALL, R11 - 4 AND R10 - 61 SHALL BE 60 " X 30"
- M4 - 9 SHALL BE 30" X 24"
- M3 - X SHALL BE 24" X 12" (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS)
- M4 - 8 SHALL BE 24" X 12" (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS)
- M1 - 4, M1 - 5A AND M1 - 6 SHALL BE 24" X 24" (36" X 36" IF NEEDED TO MATCH EXISTING SIGNS)
- MO5 - 1 AND MO6 - 1 SHALL BE 21" X 21" (30" X 30" IF NEEDED TO MATCH EXISTING SIGNS)
- D1 - X SHALL BE AS SHOWN ON SPECIFIC PROJECT SIGNING DETAIL SHEETS.
- R1 - 1 SHALL BE 36" X 36"

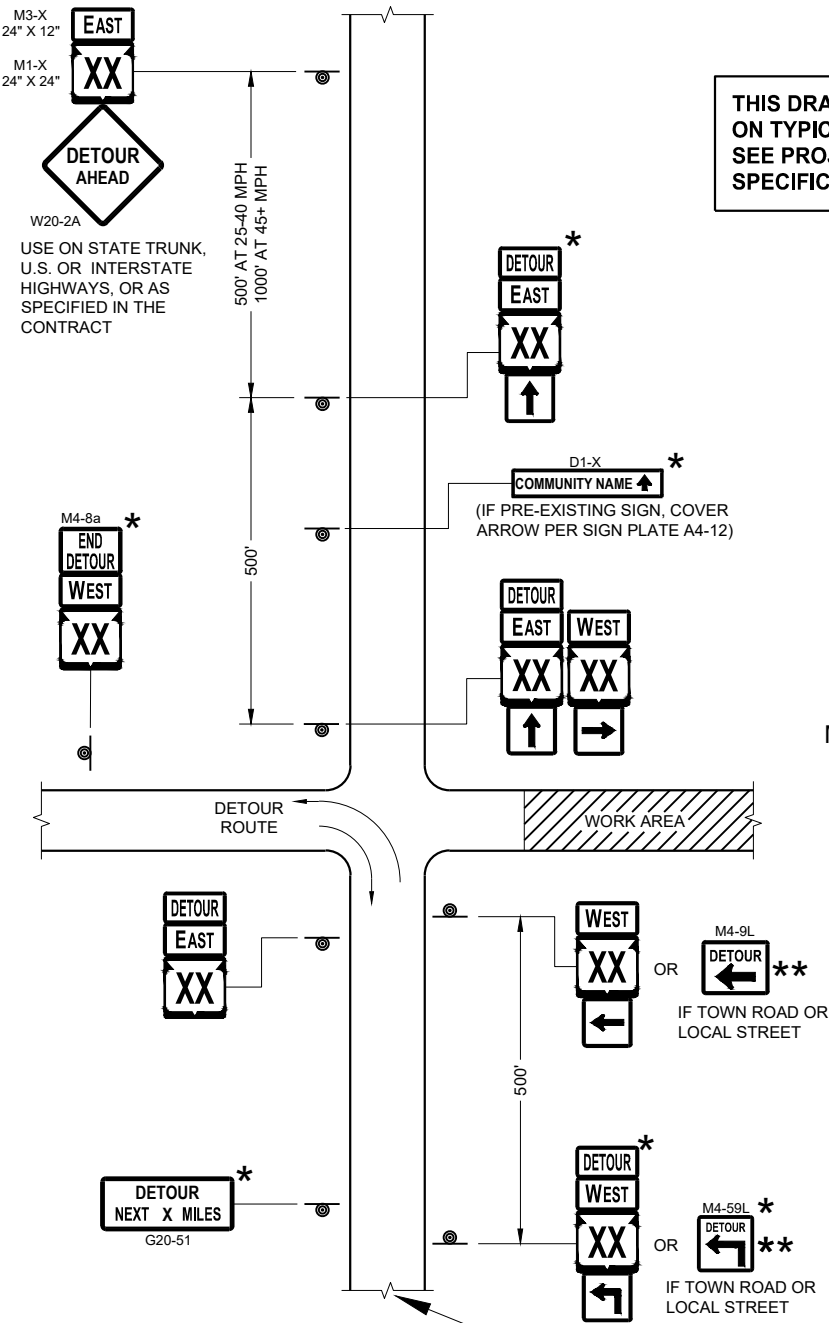
- ① TWO WARNING LIGHTS SHALL BE PROVIDED ON THE CENTER BARRICADE AND A MINIMUM OF ONE WARNING LIGHT SHALL BE PROVIDED ON EACH OF THE OTHER BARRICADES WITHIN THE ROADWAY LIMITS. SPACING OF THE WARNING LIGHTS SHALL BE UNIFORM TO THE EDGE OF ROADWAY AS SHOWN (APPROX. 8 FOOT LIGHT SPACING).
- ② THESE SIGNS AND BARRICADES ARE NOT REQUIRED IF ROAD CLOSURE BEGINS AT AN INTERSECTION.
- ③ FOR ROAD CLOSURE WITHOUT LOCAL ACCESS TO PROJECT, SEE ROAD CLOSURE BARRICADE DETAIL "D".
- ④ FOR ROAD CLOSURE WITH LOCAL ACCESS TO PROJECT, SEE ROAD CLOSURE BARRICADE DETAIL "E".
- ⑤ FOR BRIDGE OR CULVERT REPLACEMENTS, SUBSTITUTE "BRIDGE OUT" INSTEAD OF "ROAD CLOSED" ON R11 - 2 AND R11 - 3 SIGNS.
- ⑥ INSTALL DETOUR AND COMMUNITY GUIDE SIGNS AND ARROWS ONLY IF SPECIFIED IN THE CONTRACT. IF THERE ARE EXISTING ROUTE MARKER ASSEMBLIES THAT WILL REMAIN IN PLACE, ADJUST THE LOCATION OF THE DETOUR ROUTE SIGNS TO CORRESPOND WITH THE EXISTING ASSEMBLIES. MODIFY EXISTING SIGNS WHERE POSSIBLE. SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS. IF DETOUR SIGNS ARE BEING INSTALLED BY OTHERS, PLACE THE CONTRACTED TRAFFIC CONTROL SIGNS TO ALLOW FOR PLACEMENT OF ALL WARNING, DETOUR AND GUIDE SIGNS AS SHOWN.
- ⑦ "EAST" CARDINAL DIRECTION MARKERS AND RIGHT TURN ARROWS ARE SHOWN. USE OTHER CARDINAL DIRECTIONS AND ARROWS AS APPROPRIATE.

BARRICADES AND SIGNS
FOR
VARIOUS CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2020 /S/ Andrew Heidtke
DATE WORK ZONE ENGINEER

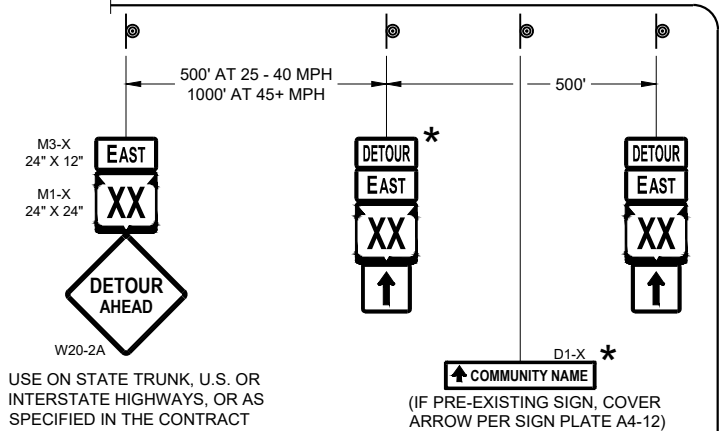
FHWA



SEE SPECIFIC PROJECT DETOUR
SIGNING DETAIL SHEETS AND
DETAIL A OR B ON SDD SHEET 15C02 - SHEET "a"

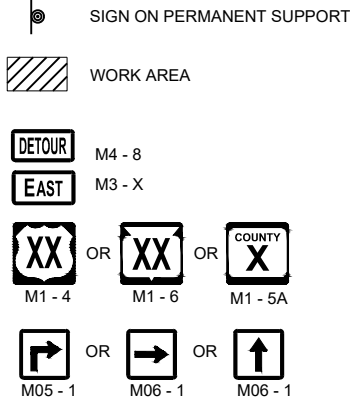
THIS DRAWING PROVIDES GENERAL GUIDANCE
ON TYPICAL DETOUR SIGN LAYOUT AND SPACING.
SEE PROJECT DETOUR SIGNING SHEETS FOR
SPECIFIC DETAILS FOR EACH PROJECT.

MATCH POINT



DETAIL F
DETOUR SIGNING

LEGEND



GENERAL NOTES

THE EXACT NUMBER, LOCATION AND SPACING OF ALL SIGNS SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

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. SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS. MODIFY EXISTING SIGNS WHERE POSSIBLE.

THE SPACING BETWEEN TRAFFIC CONTROL AND DETOUR SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

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.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

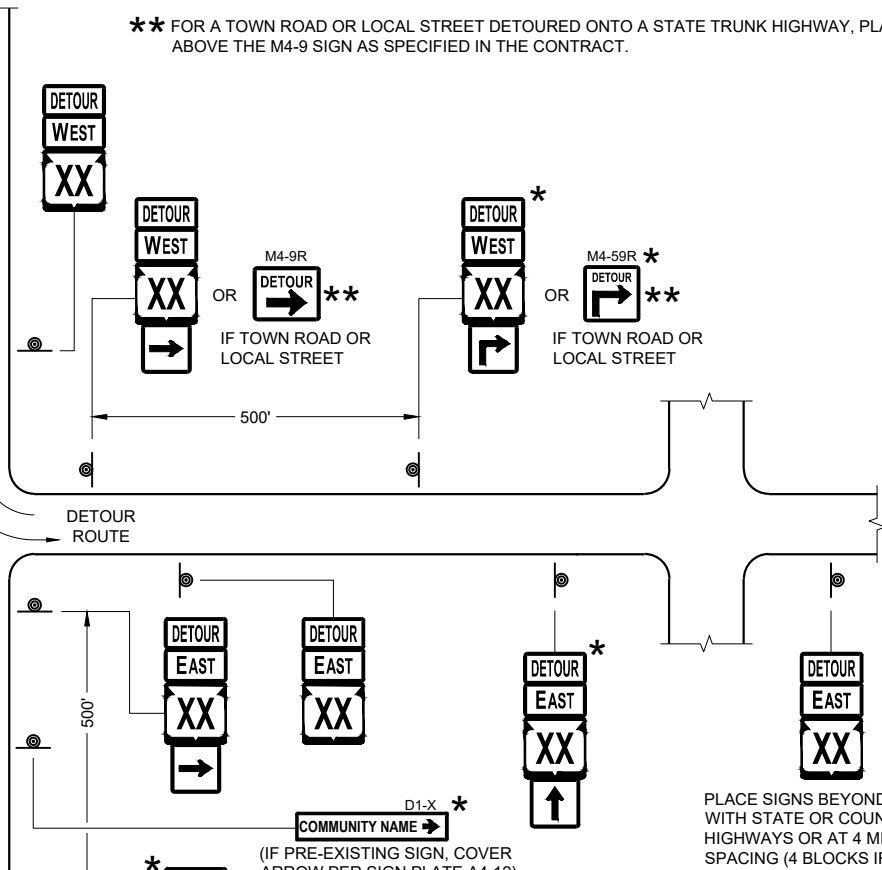
"MO" SIGNS ARE THE SAME AS "M" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

SIGN SIZES SHALL BE AS FOLLOWS:

- 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" (30" X 30" IF NEEDED TO MATCH EXISTING SIGNS)
- M05-1 AND M06-1 SHALL BE 21" X 21" (30" X 30" IF NEEDED TO MATCH EXISTING SIGNS)
- M4-9 AND M4-59 SHALL BE 30" X 24"
- M4-8a SHALL BE 24" X 18"
- G20-51 SHALL BE 60" X 24"
- W20-2A SHALL BE 48" X 48"
- D1-X SHALL BE AS SHOWN ON SPECIFIC PROJECT SIGNING DETAIL SHEETS.

* OPTIONAL SIGNS. SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS.

** FOR A TOWN ROAD OR LOCAL STREET DETOURED ONTO A STATE TRUNK HIGHWAY, PLACE A ROAD NAME PLAQUE ABOVE THE M4-9 SIGN AS SPECIFIED IN THE CONTRACT.

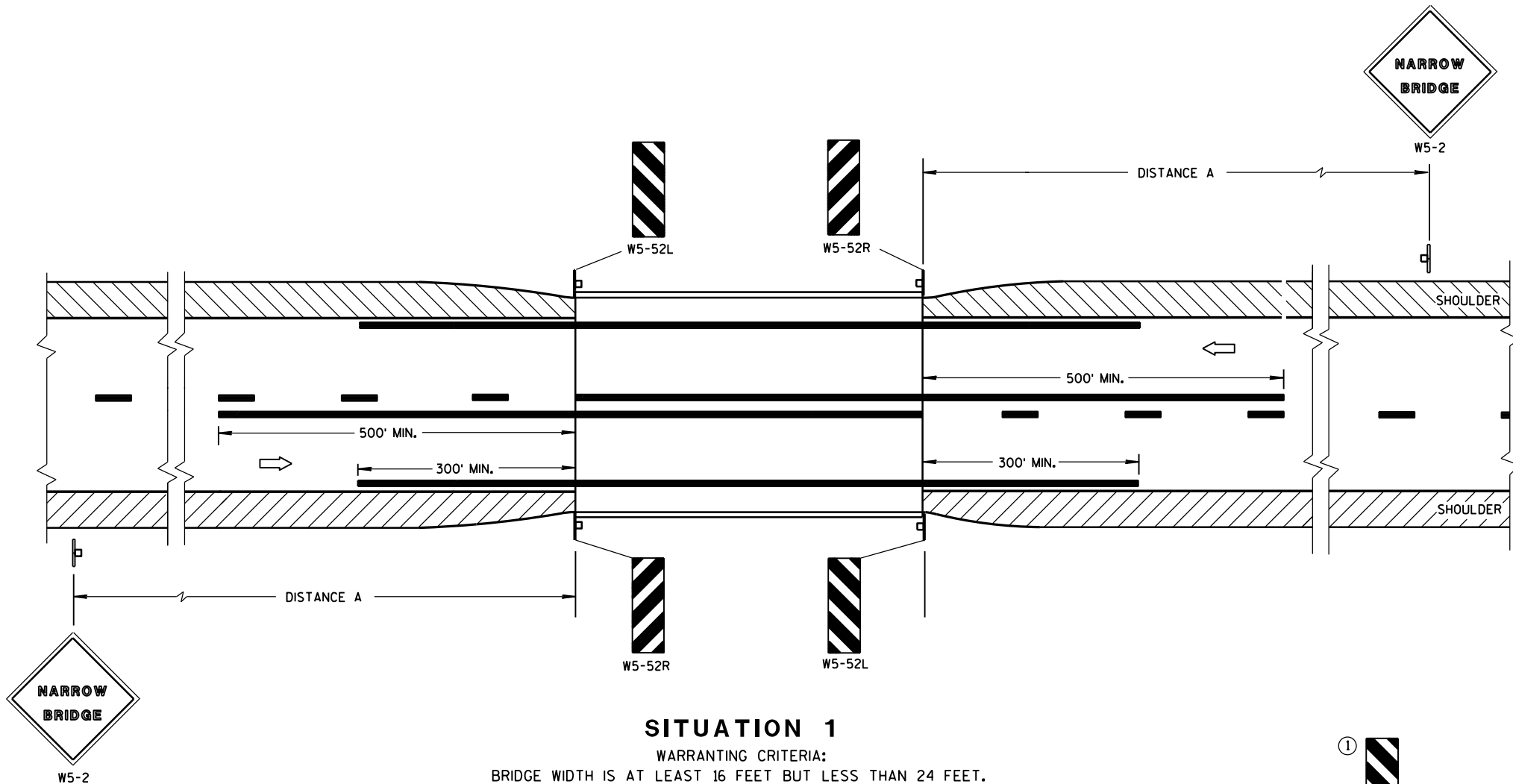


PLACE SIGNS BEYOND INTERSECTIONS
WITH STATE OR COUNTY TRUNK
HIGHWAYS OR AT 4 MILE MAXIMUM
SPACING (4 BLOCKS IF URBAN AREA)

DETOUR SIGNING
FOR MAINLINE CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2020 /S/ Andrew Heidtke
DATE WORK ZONE ENGINEER
FHWA

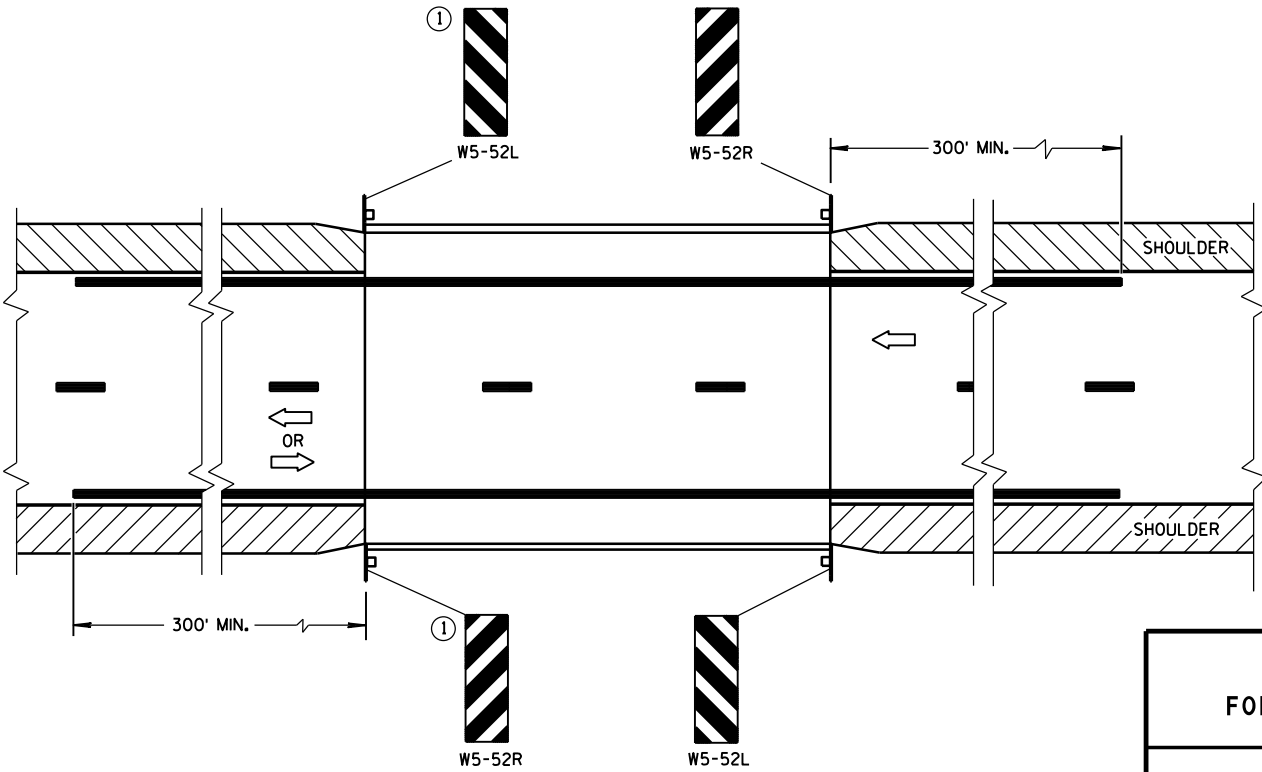


SITUATION 1

WARRANTING CRITERIA:
BRIDGE WIDTH IS AT LEAST 16 FEET BUT LESS THAN 24 FEET.

DISTANCE TABLE

POSTED OR 85th PERCENTILE SPEED	DISTANCE "A "
25	150'
30	200'
35	250'
40	300'
45	400'
50	550'
55	750'



SITUATION 2

WARRANTING CRITERIA:
1. BRIDGE WIDTH IS AT LEAST 24 FEET AND
2. BRIDGE SHOULDER WIDTH IS LESS THAN 6 FEET.

GENERAL NOTES

DETAILS OF TRAFFIC CONTROL DEVICES AND INSTALLATION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS, THE SPECIAL PROVISIONS, AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

LOCATE W5-52 SIGN POST(S) BEHIND GUARDRAIL WHEN PRESENT.

PLACE THE EDGE OF THE W5-52 SIGN IN LINE WITH FACE OF CURB OR PARAPET.

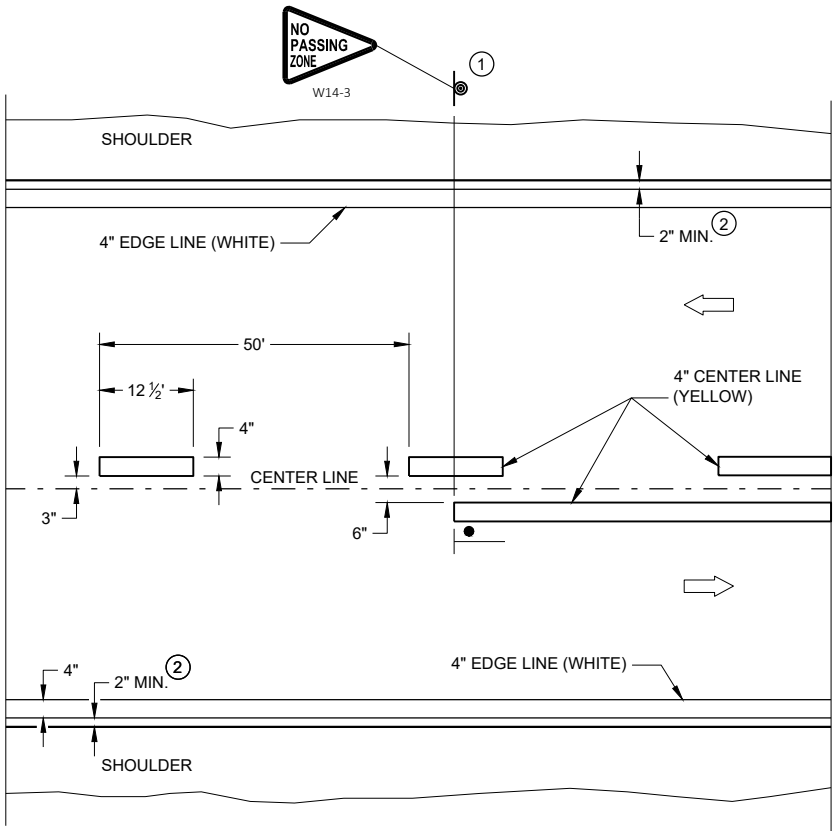
① OMIT ON ONE-WAY TRAVELLED WAYS.

➡ DIRECTION OF TRAFFIC

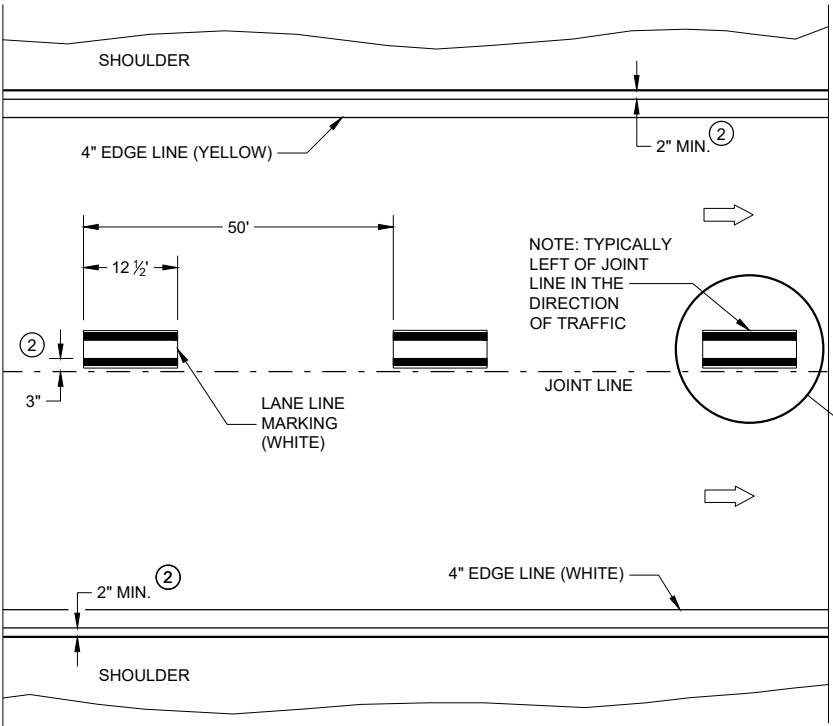
**SIGNING & MARKING
FOR TWO LANE BRIDGES**

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June 2017 /S/ Matthew R. Rauch
DATE STATE SIGNING AND MARKING ENGINEER
FHWA

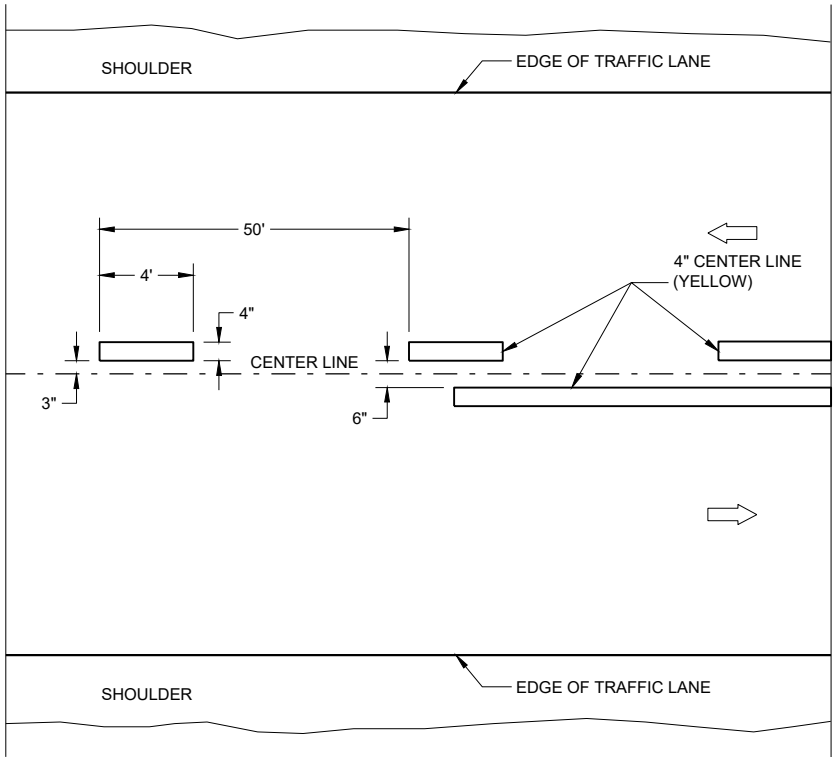


TWO WAY TRAFFIC

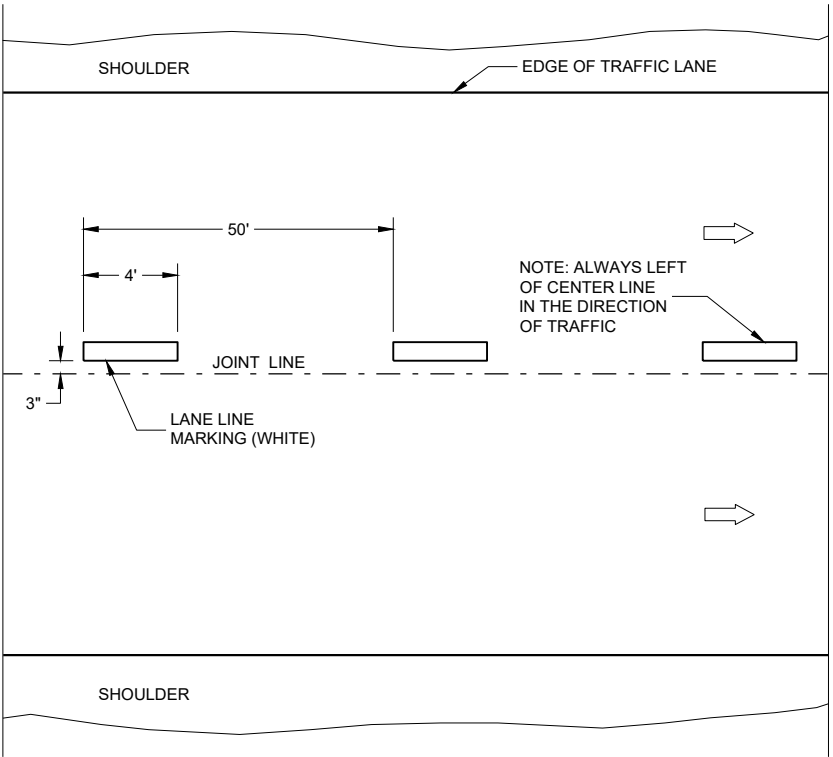


ONE WAY TRAFFIC

PERMANENT PAVEMENT MARKING



TWO WAY TRAFFIC



ONE WAY TRAFFIC

TEMPORARY PAVEMENT MARKING

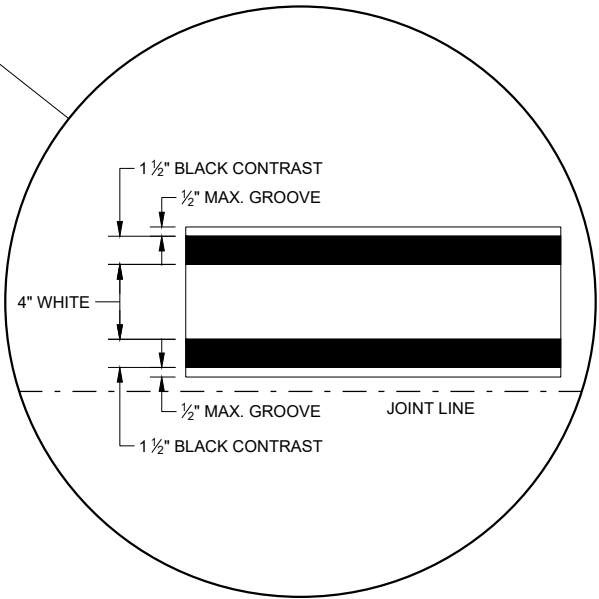
GENERAL NOTES

DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS.

- ① LOCATE THE NO PASSING ZONE W14-3 SIGN WITH 50 FEET OF THE "T" MARKING
- ② MEASURE FROM EDGE OF MARKING TO JOINT LINE. THIS DOES NOT INCLUDE SPACE NEEDED FOR GROOVING OPERATIONS.

LEGEND

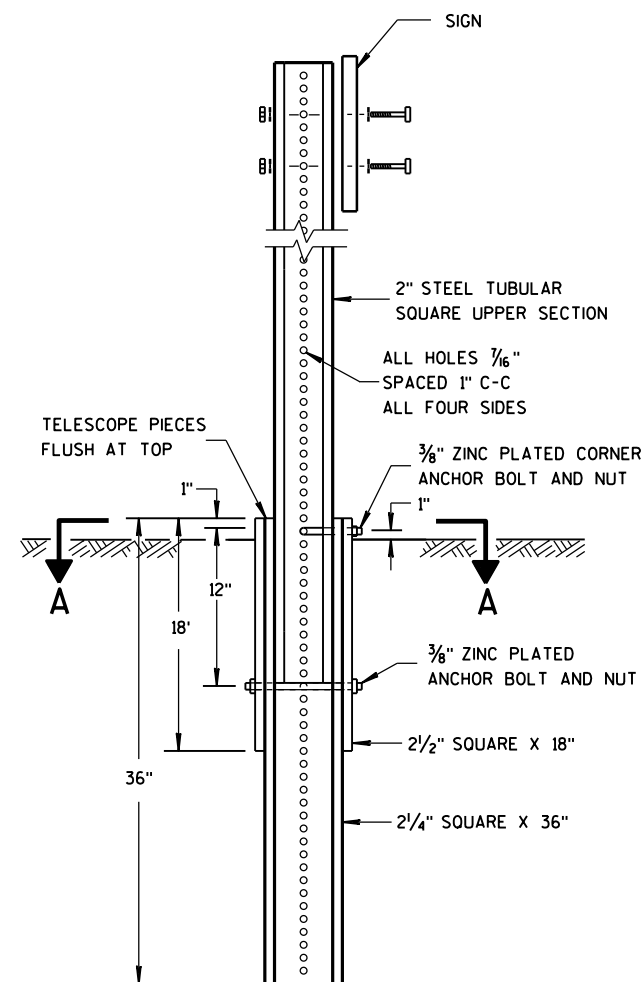
- "T" MARKING
- SIGN ON PERMANENT SUPPORT
- DIRECTION OF TRAFFIC



LONGITUDINAL MARKING (MAINLINE)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2020
DATE
/S/ Matthew Rauch
STATEWIDE SIGNING AND MARKING
ENGINEER
FHWA

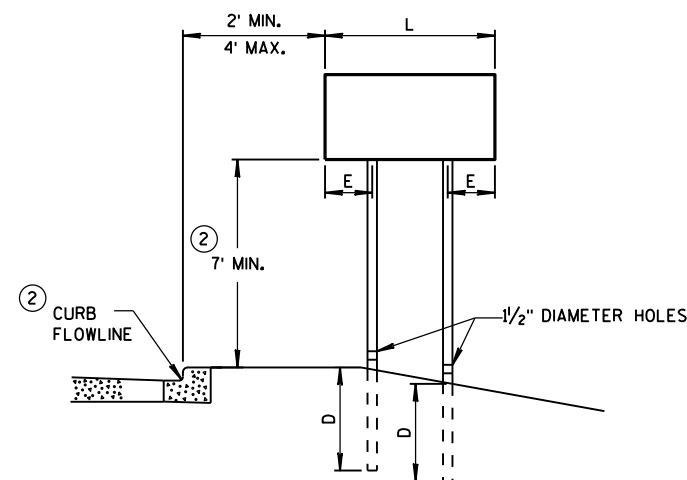
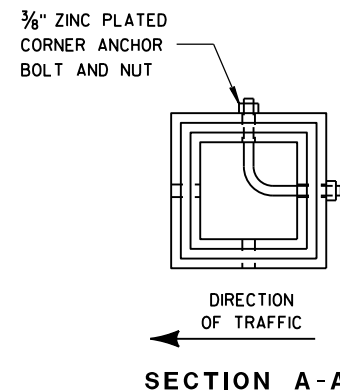


DETAIL OF TUBULAR
STEEL SIGN POST

TUBULAR STEEL POSTS

AREA OF SIGN INSTALLATION (SQ. 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

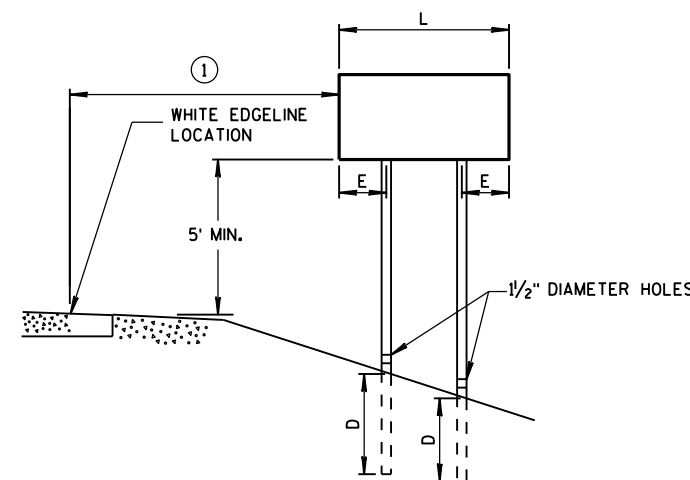
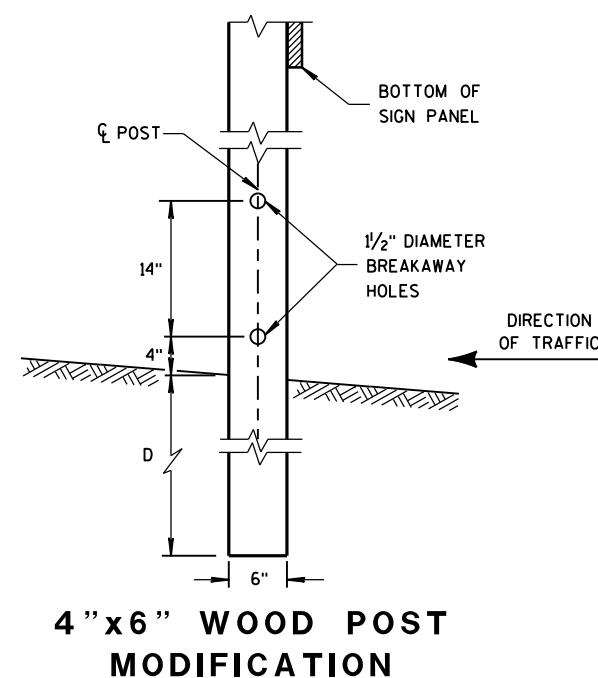
SIGNS WIDER THAN 3 FEET OR LARGER THAN 9 SQ. FT. SHALL
BE MOUNTED ON MULTIPLE POSTS (SEE ABOVE TABLE).
SIGNS LARGER THAN 27 SQ. FT. SHALL NOT BE MOUNTED
ON TUBULAR STEEL POSTS.



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'



RURAL AREA

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

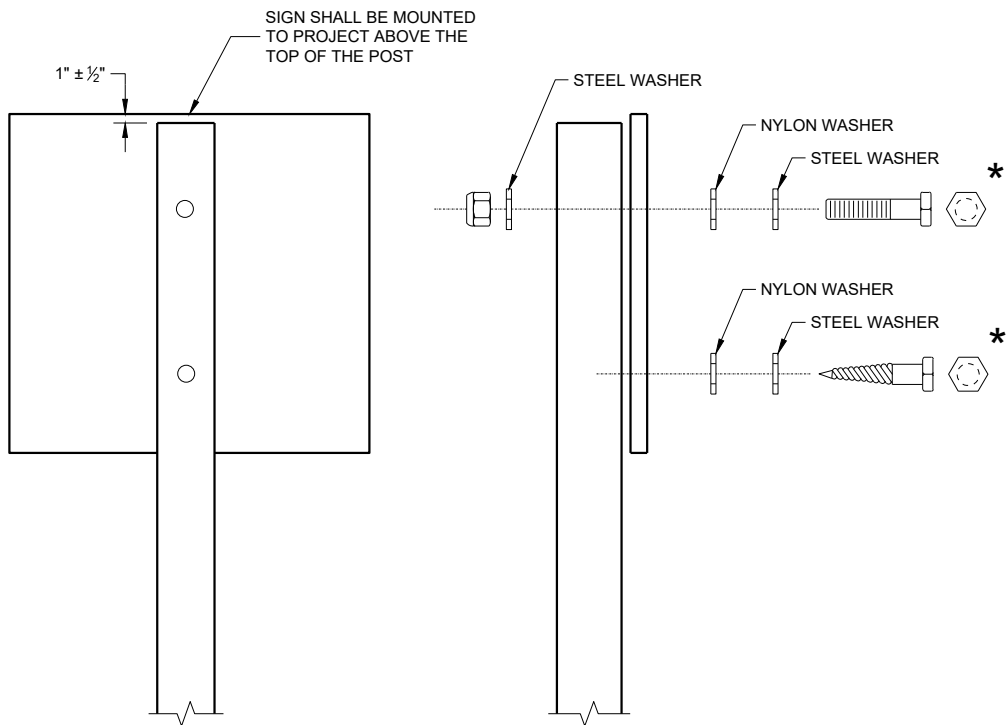
SEE NOTE ③

GENERAL NOTES

- ① 6 FEET FROM THE EDGE OF PAVEMENT (EDGE LINE LOCATION) UNLESS OTHERWISE DIRECTED BY THE PROJECT ENGINEER. LATERAL OFFSET SHOULD BE ADJUSTED TO AVOID THE DITCH FLOWLINE.
- ② THE EXISTENCE OF CURB AND GUTTER DOES NOT IN ITSELF MANDATE THE VERTICAL CLEARANCE ILLUSTRATED. THAT HEIGHT IS TYPICALLY MEASURED WHERE THERE IS SIDEWALK ADJACENT TO THE ROADWAY OR PARKING IS PERMITTED. IN THE ABSENCE OF SIDEWALK, VERTICAL CLEARANCE IS MEASURED FROM THE TOP OF THE CURB. IF NO SIDEWALK AND NO PARKING, VERTICAL CLEARANCE MAY BE REDUCED TO 5 FOOT MINIMUM. OFFSET OF SIGNS IS MEASURED FROM THE CURB FLOWLINE.
- ③ FOR SIGNS REQUIRING 4 POSTS, SPACE INTERMEDIATE POSTS EVENLY.

TEMPORARY TRAFFIC CONTROL
SIGN MOUNTING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION



NUTS, BOLTS AND LAGS USED FOR MOUNTING SIGNS
SHALL HAVE HEXAGONAL HEADS AND SHALL BE EITHER:

- A. HOT DIP GALVANIZED IN ACCORDANCE WITH ASTM
DESIGNATION: A 153, CLASS D, OR SC 3
- B. ELECTRO-GALVANIZED IN ACCORDANCE WITH ASTM
DESIGNATION: B 633, TYPE III, SC 3

THREADS ON BOLTS AND NUTS SHALL BE MANUFACTURED WITH
SUFFICIENT ALLOWANCE FOR THE CADMIUM PLATE OR GALVANIZED
COATING TO PERMIT THE NUTS TO RUN FREELY ON THE BOLTS.

WOOD POST (4" x 6")
LAG SCREWS - 3/8" x 3"
MACHINE BOLTS - 5/16" x 6 1/2" OR 7" LENGTH W/NUTS

SQUARE STEEL POST (2" x 2")
MACHINE BOLTS - 3/8" x 3 1/4" LENGTH W/NUTS
RIVETS - 3/32" (6605-9-6) BULB-TITE, TRI-FOLD, ALUMINUM
BODY/MANDREL O.D. FLANGE 0.720 - 0.765 INCH,
GRIP RANGE 0.042 - 0.375 INCH

WASHERS (ALL POSTS) -
1 1/4" O.D. x 3/8" I.D. x 1/16" STEEL
1 1/4" O.D. x 3/8" I.D. x 0.080 NYLON

* TWO DIFFERENT FASTENING SYSTEMS ARE SHOWN FOR ILLUSTRATION
PURPOSES. ON ANY INDIVIDUAL SIGN, EITHER ONE OR THE OTHER SYSTEM
SHALL BE USED. ACTUAL NUMBER OF FASTENERS PER SIGN VARIES WITH
THE SIGN AREA. FOR A SINGLE POST INSTALLATION, ALL SIGNS GREATER
THAN 9 SQ. FT. REQUIRE THE USE OF 3 FASTENERS.

ATTACHMENT OF SIGNS
TO POSTS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

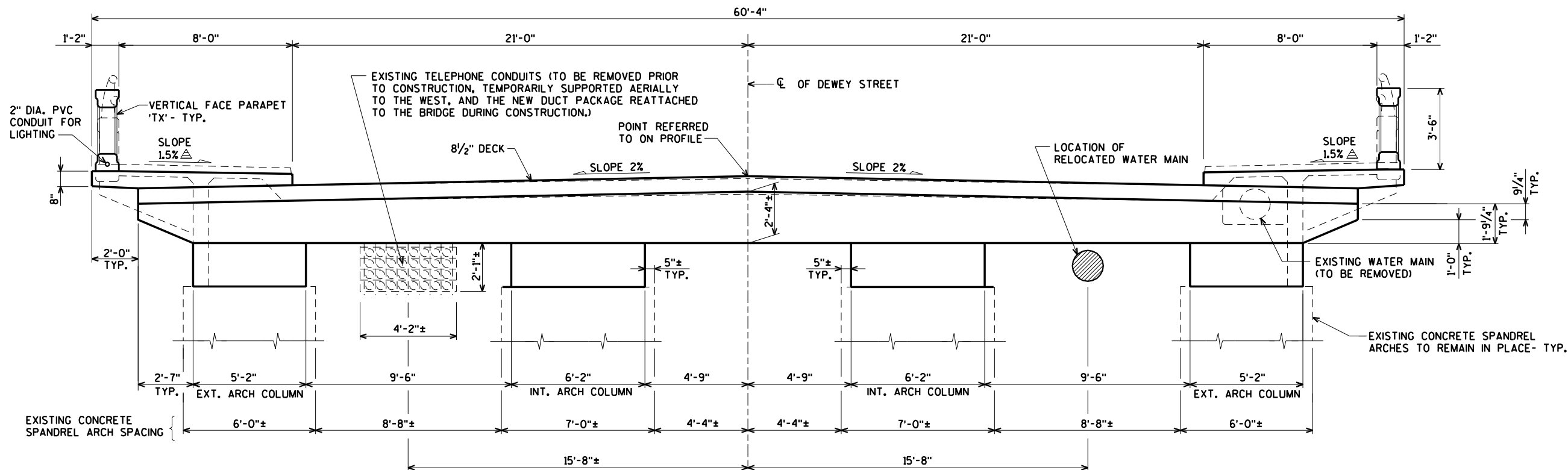
APPROVED
June 2017 /S/ Andrew Heidtke
DATE WORK ZONE ENGINEER

FHWA

\$PRNAME\$ I:\42\42-1123.00 - City of Eau Claire, Dewey Street Bridge Rehab\Structures\Final Structures\421123 ty qn.DGN

STATE PROJECT NUMBER

7995-02-48



±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

TYPICAL CROSS SECTION THRU BRIDGE

(LOOKING NORTH)

WATER MAIN GENERAL NOTES

EXISTING WATER MAIN TO BE REPLACED WITH NEW 16" DIA. WATER MAIN AS PART OF THIS CONTRACT, INCLUDED UNDER ROADWAY BID ITEMS.

THE EXACT SIZE, LOCATION, AND ELEVATION OF THE OPENINGS THROUGH THE ABUTMENTS FOR THE NEW 16" DIA. WATER MAIN SHALL BE DETERMINED AND AGREED UPON BY BOTH THE UTILITY OWNER (CITY OF EAU CLAIRE) AND THE FIELD ENGINEER PRIOR TO INSTALLATION.

AFTER THE NEW 16" DIA. WATER MAIN HAS BEEN INSTALLED, THE OPENINGS NEED TO BE GROUTED CLOSED AT THE ABUTMENTS. A PIECE OF 18" RUBBERIZED MEMBRANE WATERPROOFING SHALL BE APPLIED TO THE BACK FACE OF THE ABUTMENT AT THE OPENING LOCATIONS.

THE CONTRACTOR SHALL COORDINATE WITH THE UTILITY OWNER (CITY OF EAU CLAIRE) TO DETERMINE THE NUMBER AND SPACING OF THE DECK INSERTS, HANGERS, AND ALL THE NECESSARY HARDWARE REQUIRED TO INSTALL AND SECURE THE 16" DIA. WATER MAIN.

THE CONTRACTOR SHALL SUPPLY DECK INSERTS AND HANGERS, AND ALL THE NECESSARY HARDWARE REQUIRED TO INSTALL THE DECK INSERTS FOR THEIR HANGERS. THESE ITEMS SHALL BE CONSIDERED INCIDENTAL TO BID ITEM "16-INCH DUCTILE WATER MAIN CLASS 52".

THE CONTRACTOR SHALL INSTALL THE INSERTS, HANGERS, AND ALL ASSOCIATED HARDWARE REQUIRED TO INSTALL THE NEW 16" DIA. WATER MAIN HANGER ASSEMBLIES/SUPPORT SYSTEM. THE INSTALLATION OF THE INSERTS, HANGERS, AND ALL ASSOCIATED HARDWARE SHALL BE CONSIDERED INCIDENTAL TO BID ITEM "16-INCH DUCTILE WATER MAIN CLASS 52".

DESIGN DATA

LIVE LOAD:

SPANDREL ARCH

DESIGN LOADING: HS-20
INVENTORY RATING: HS-17
OPERATING RATING: HS-28
WISCONSIN STANDARD PERMIT VEHICLE (WIS-SPV) = 190 KIPS

COLUMNS, FLOOR BEAMS, AND DECK

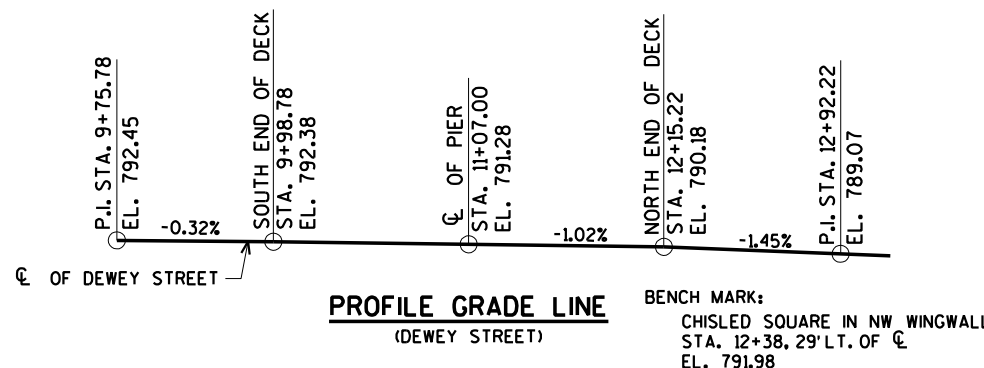
DESIGN LOADING: HL-93
INVENTORY RATING FACTOR: 1.30
OPERATING RATING FACTOR: 1.69
WISCONSIN STANDARD PERMIT VEHICLE (WIS-SPV) = 200 KIPS

MATERIAL PROPERTIES:

CONCRETE MASONRY { SUPERSTRUCTURE $f'_c = 4,000$ p.s.i.
ALL OTHER $f'_c = 3,500$ p.s.i.
HIGH STRENGTH BAR STEEL REINFORCEMENT (GRADE 60) $f_y = 60,000$ p.s.i.

TRAFFIC DATA:

A.A.D.T. = 2,600 (2020)
A.A.D.T. = 2,850 (2040)
R.D.S. = 30 M.P.H.



PROFILE GRADE LINE

(DEWEY STREET)

BENCH MARK:
CHISELED SQUARE IN NW WINGWALL
STA. 12+38, 29' LT. OF CL
EL. 791.98

ORIGINAL PLANS PREPARED BY
AYRES ASSOCIATES
3433 Oakwood Hills Parkway
Eau Claire, WI 54701
www.AyresAssociates.com

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
STRUCTURE B-18-93			
DRAWN BY CJM/CLP		PLANS CK'D. CBM	
TYPICAL SECTION AND DESIGN DATA			SHEET 2 OF 40

\$PRNAME\$ I:\42-1123.00 - City of Eau Claire, Dewey Street Bridge Rehab\Structures\Final Structures\421123 ty qn.DGN

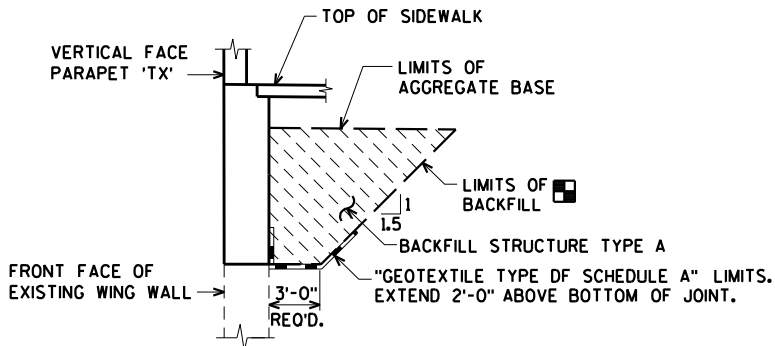
TOTAL ESTIMATED QUANTITIES

STATE PROJECT NUMBER

7995-02-48

BID ITEM NUMBER	BID ITEMS	UNIT	S. ABUT.	PIER	N. ABUT.	SUPER.	TOTAL	CATEGORY 0020	CATEGORY 0030
203.0600.S	REMOVING OLD STRUCTURE OVER WATERWAY WITH MINIMAL DEBRIS STATION 11+07	LS	-----	-----	-----	-----	1	1	-----
*** 206.1000.01	EXCAVATION FOR STRUCTURES BRIDGES B-18-93	LS	-----	-----	-----	-----	1	1	-----
**** 206.1000.02	EXCAVATION FOR STRUCTURES BRIDGES B-18-93	LS	-----	-----	-----	-----	1	-----	1
210.1500	BACKFILL STRUCTURE TYPE A	TON	40	-----	2,030	-----	2,070	80	1,990
311.0110	BREAKER RUN	TON	-----	-----	75	-----	75	-----	75
502.0100	CONCRETE MASONRY BRIDGES	CY	17	-----	112	1,172	1,301	1,205	96
502.3101	EXPANSION DEVICE B-18-93	LF	-----	-----	-----	-----	460	460	-----
502.3200	PROTECTIVE SURFACE TREATMENT	SY	-----	-----	-----	1,420	1,420	1,420	-----
502.3210	PIGMENTED SURFACE SEALER	SY	25	-----	25	275	275	275	-----
502.4205	ADHESIVE ANCHORS NO. 5 BAR	EACH	308	-----	244	1,712	2,264	2,216	48
505.0400	BAR STEEL REINFORCEMENT HS STRUCTURES	LB	-----	-----	9,210	6,550	15,760	6,550	9,210
505.0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	LB	3,850	-----	4,600	214,040	222,490	221,160	1,330
* 509.1500	CONCRETE SURFACE REPAIR	SF	-----	-----	-----	-----	3,700	3,700	-----
516.0500	RUBBERIZED MEMBRANE WATERPROOFING	SY	20	-----	65	-----	85	40	45
516.0610.S	SHEET MEMBRANE WATERPROOFING FOR TOP SLAB B-18-93	SY	-----	-----	225	-----	225	-----	225
517.1010.S	CONCRETE STAINING B-18-93	SF	1,700	1,500	1,600	25,900	30,700	30,700	-----
606.0300	RIPRAP HEAVY	CY	-----	10	-----	-----	10	10	-----
645.0105	GEOTEXTILE TYPE C	SY	-----	-----	130	-----	130	-----	130
645.0111	GEOTEXTILE TYPE DF SCHEDULE A	SY	100	-----	-----	-----	100	100	-----
652.0125	CONDUIT RIGID METALLIC 2-INCH	LF	4	-----	4	42	50	50	-----
652.0225	CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH	LF	25	-----	25	170	220	220	-----
653.0222	JUNCTION BOXES 18x12x6-INCH	EACH	-----	-----	-----	2	2	2	-----
SPV.0090.01	PARAPET CONCRETE TYPE 'TX'	LF	48	-----	48	429	525	525	-----
SPV.0105.01	ATTACHMENT OF HANGERS FOR CONDUIT PACK	LS	-----	-----	-----	-----	1	-----	1
** SPV.0165.01	OVERHEAD CONCRETE SURFACE REPAIR	SF	-----	-----	-----	1,760	1,760	1,760	-----
	NON-BID ITEMS								
	FILLER	SIZE	-----	-----	-----	-----	1/2"	-----	1/2"

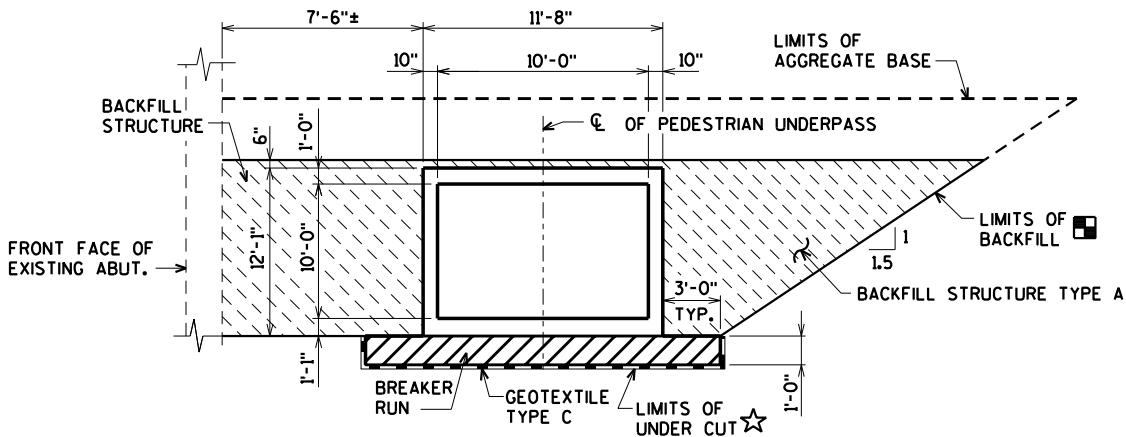
- * UNDISTRIBUTED FOR ABUTMENTS, PIER, AND SPANDREL ARCHES AS DIRECTED BY THE ENGINEER.
- ** UNDISTRIBUTED FOR BOTTOM OF SPANDREL ARCHES AS DIRECTED BY THE ENGINEER.
- *** AT SOUTH ABUTMENT.
- **** AT NORTH ABUTMENT AND UNDERPASS.



BACKFILL STRUCTURE LIMITS

AT SOUTH ABUTMENT WINGWALLS, SOUTH ABUTMENT BODY SIMILAR

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



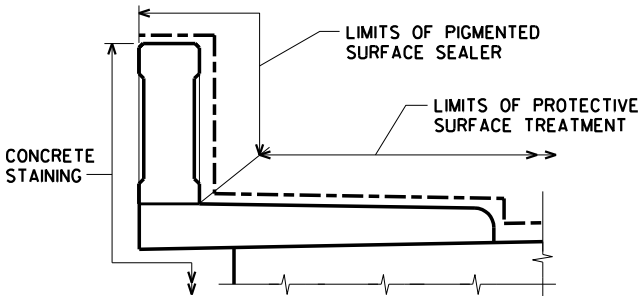
BACKFILL STRUCTURE LIMITS

AT NORTH ABUTMENT AND PEDESTRIAN UNDERPASS (LOOKING WEST)

- UNDER CUT 1'-0". EXCAVATION FOR UNDER CUT TO BE INCLUDED IN EXCAVATION FOR STRUCTURES. PLACE "GEOTEXTILE TYPE C" AND BACKFILL WITH "BREAKER RUN".

GENERAL NOTES

- DRAWINGS SHALL NOT BE SCALED.
- DIMENSIONS ARE BASED ON ORIGINAL STRUCTURE PLANS.
- BAR STEEL SHALL BE EMBEDDED 2 INCHES CLEAR UNLESS SHOWN OR NOTED OTHERWISE.
- THE FIRST DIGIT OF A THREE DIGIT BAR NO. AND THE FIRST TWO DIGITS OF A FOUR DIGIT BAR NO. SIGNIFIES THE BAR SIZE.
- ALL CONCRETE REMOVAL SHALL BE DEFINED BY A 1" DEEP SAW CUT UNLESS SHOWN OR NOTED OTHERWISE.
- AT ABUTMENTS ALL SPACES EXCAVATED AND NOT OCCUPIED BY THE NEW STRUCTURE SHALL BE BACKFILLED WITH BACKFILL STRUCTURE TYPE A.
- THE CONTRACTOR SHALL SUPPLY A NEW NAME PLATE IN ACCORDANCE WITH SECTION 502.3.11 OF THE STANDARD SPECIFICATIONS AND THE STANDARD DETAIL DRAWINGS. NAME PLATE TO SHOW THE ORIGINAL CONSTRUCTION YEAR OF 1931.
- UTILIZE EXISTING BAR STEEL REINFORCEMENT WHERE SHOWN AND EXTEND 24 BAR DIAMETERS INTO NEW WORK, UNLESS SPECIFIED OTHERWISE.
- THE EXISTING GROUNDLINE SHALL BE THE UPPER LIMIT FOR EXCAVATION FOR STRUCTURES.
- JOINT FILLER SHALL CONFORM TO THE REQUIREMENTS OF A.A.S.H.T.O. DESIGNATION M 153, TYPE I, II OR III OR A.A.S.H.T.O. DESIGNATION M 213.
- ALL CONCRETE WILL BE STAINED WHITE, AMS STANDARD COLOR NUMBER 37886 EXCEPT INSIDE FACE AND TOP OF PARAPET, SIDEWALK, UNDERSIDE & TOP OF DECK.
- BEVEL EXPOSED EDGES OF CONCRETE 3/4" UNLESS NOTED OTHERWISE.
- PROTECTIVE SURFACE TREATMENT AND PIGMENTED SURFACE SEALER ARE TO BE APPLIED AS SHOWN IN THE DETAILS ON THIS SHEET.
- THE EXISTING STRUCTURE, B-18-93, TO BE REHABILITATED, IS A TWO SPAN CONCRETE SPANDREL ARCH BRIDGE, 216.44-FEET LONG WITH A 42-FOOT CLEAR ROADWAY WIDTH, WITH 8-FOOT CLEAR SIDEWALKS ON EACH SIDE.
- PRECAST CONCRETE CULVERT IS NOT ALLOWED AS A SUBSTITUTE FOR THE PEDESTRAIN UNDERPASS.



PROTECTIVE SURFACE TREATMENT AND PIGMENTED SURFACE SEALER DETAILS

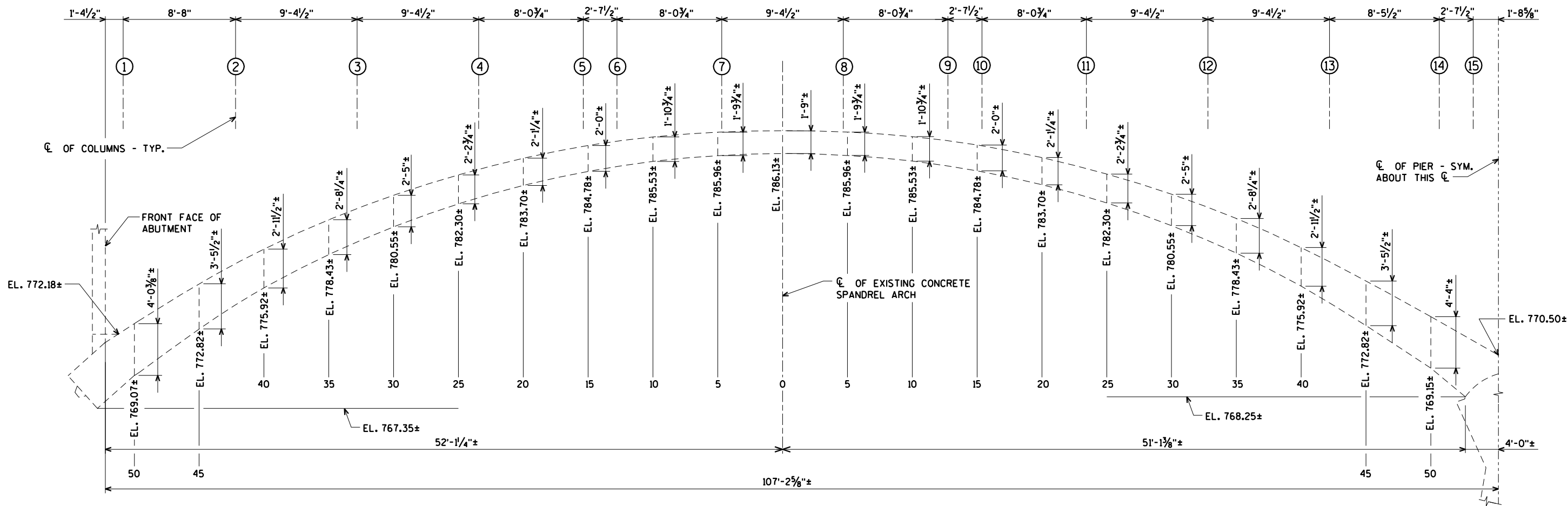
NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
STRUCTURE B-18-93			
DRAWN BY CJM/CLP		PLANS CK'D.	CBM
QUANTITIES AND NOTES			SHEET 3 OF 40

ORIGINAL PLANS PREPARED BY
AYRES ASSOCIATES
3433 Oakwood Hills Parkway
Eau Claire, WI 54701
www.AyresAssociates.com

\$PRNAME\$
U:\42-1123.00 - City of Eau Claire, Dewey Street Bridge Rehab\Structures\Final Structure\421123_arch.dgn

STATE PROJECT NUMBER

7995-02-48



ELEVATION OF EXISTING SPANDREL ARCH
(SPAN 1 SHOWN, SPAN 2 SIMILAR)

NOTES:

REMOVE EXISTING BRIDGE TO TOP OF
EXISTING CONCRETE SPANDREL ARCHES.

DEMOLITION AND POURING SEQUENCE SHALL BE
SUCH THAT LOADING ABOUT THE CENTERLINE OF
THE PIER WILL NOT BE UNBALANCED BY MORE THAN
ONE PANEL. THE DISTANCE BETWEEN TWO DECK JOINTS
CONSTITUTES A PANEL.

SEE SHEETS 19 & 20 FOR DEMOLITION SEQUENCE.

8

8

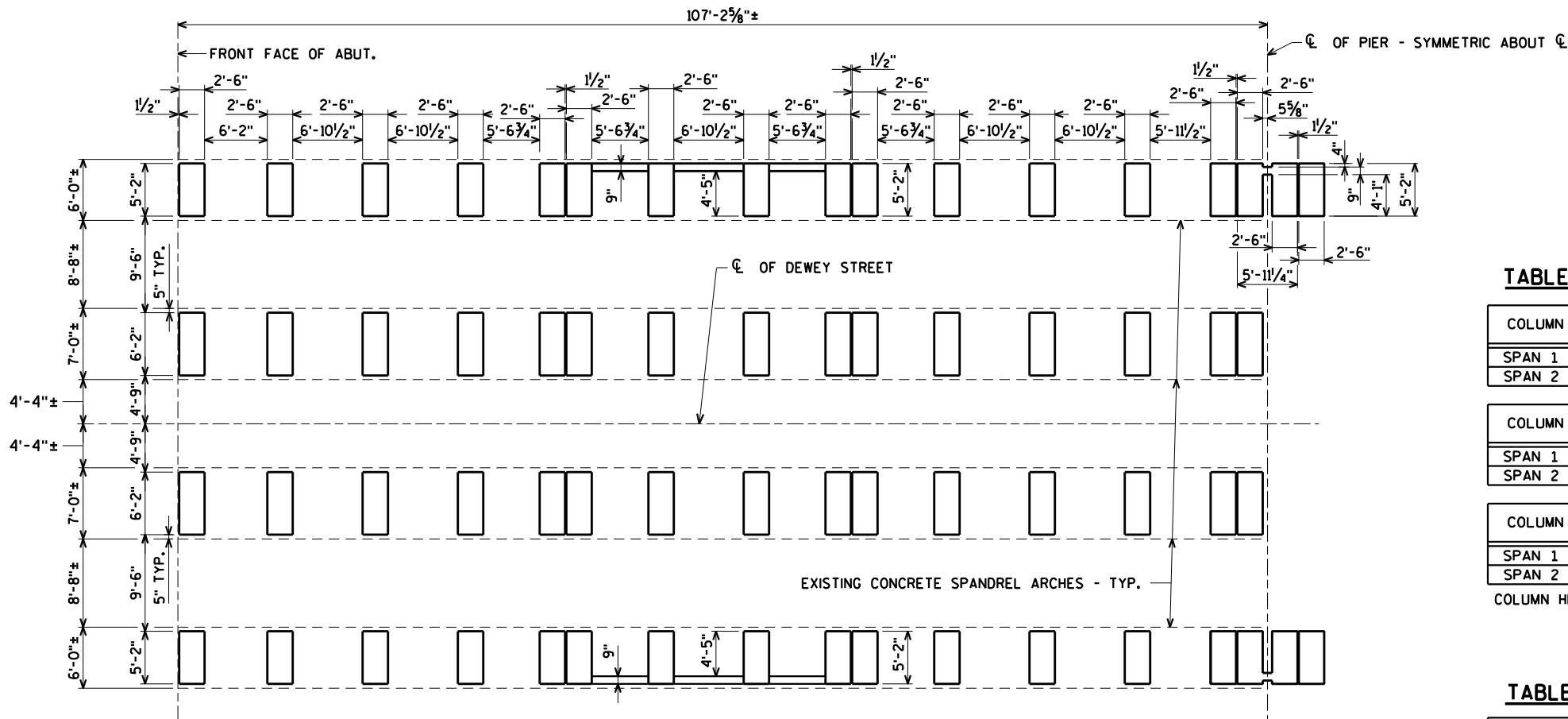
NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
STRUCTURE B-18-93			
DRAWN BY		CLP	PLANS CK'D. CBM
SPANDREL ARCH DETAILS			SHEET 4 OF 40

ORIGINAL PLANS PREPARED BY
AYRES ASSOCIATES
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Eau Claire, WI 54701
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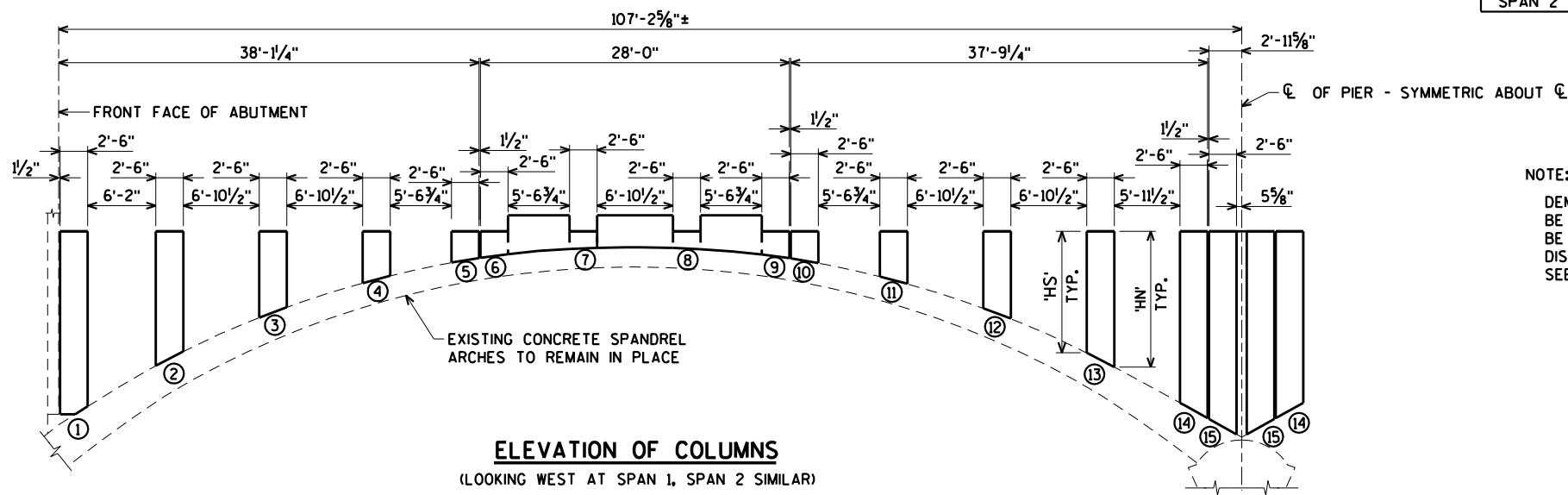
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STATE PROJECT NUMBER

7995-02-48



COLUMN LAYOUT
(SPAN 1 SHOWN, SPAN 2 SIMILAR)



ELEVATION OF COLUMNS
(LOOKING WEST AT SPAN 1, SPAN 2 SIMILAR)

○ DENOTES COLUMN NUMBER

TABLE OF COLUMN HEIGHTS

COLUMN	1		2		3		4		5	
	'HS'	'HN'	'HS'	'HN'	'HS'	'HN'	'HS'	'HN'	'HS'	'HN'
SPAN 1	17'-1 3/8"	16'-5 1/2"	12'-10 1/8"	11'-6 1/2"	8'-2 3/8"	7'-2 1/8"	4'-9 1/8"	4'-1 1/2"	2'-8 1/8"	2'-3"
SPAN 2	14'-3 3/4"	14'-11 1/2"	9'-6 1/8"	10'-10 1/2"	5'-5 1/2"	6'-5"	2'-6 3/8"	3'-2 3/4"	9 1/8"	1'-3 3/4"

COLUMN	6		7		8		9		10	
	'HS'	'HN'	'HS'	'HN'	'HS'	'HN'	'HS'	'HN'	'HS'	'HN'
SPAN 1	2'-2 1/4"	1'-10 1/4"	1'-2 1/2"	1'-0 5/8"	10 3/4"	11 3/8"	1'-2 1/8"	1'-6 3/4"	1'-6 5/8"	1'-10 5/8"
SPAN 2	5 3/4"	9 1/8"	-1 1/8"	0"	-0 1/8"	-1 1/2"	8 1/2"	4 5/8"	1'-1 1/8"	9"

COLUMN	11		12		13		14		15	
	'HS'	'HN'	'HS'	'HN'	'HS'	'HN'	'HS'	'HN'	'HS'	'HN'
SPAN 1	2'-11 3/8"	3'-7 1/8"	5'-6 3/8"	6'-5 3/8"	9'-3 1/4"	10'-6 1/2"	13'-10 1/8"	16'-1 1/8"	16'-2"	17'-5 1/2"
SPAN 2	2'-11 3/8"	2'-3 3/4"	6'-0 1/4"	5'-1 1/4"	10'-3 1/2"	9'-0 1/4"	16'-0 1/8"	13'-9 1/8"	17'-5 1/2"	16'-2"

COLUMN HEIGHT DIMENSIONS ARE APPROXIMATE.

TABLE OF TOP OF COLUMN ELEVATIONS

COLUMN	1	2	3	4	5	6	7	8
SPAN 1	789.29	789.20	789.11	789.01	788.93	788.90	788.82	788.73
SPAN 2	787.14	787.23	787.33	787.42	787.50	787.53	787.61	787.71

COLUMN	9	10	11	12	13	14	15
SPAN 1	788.64	788.62	788.54	788.44	788.34	788.26	788.23
SPAN 2	787.79	787.82	787.90	787.99	788.09	788.17	788.20

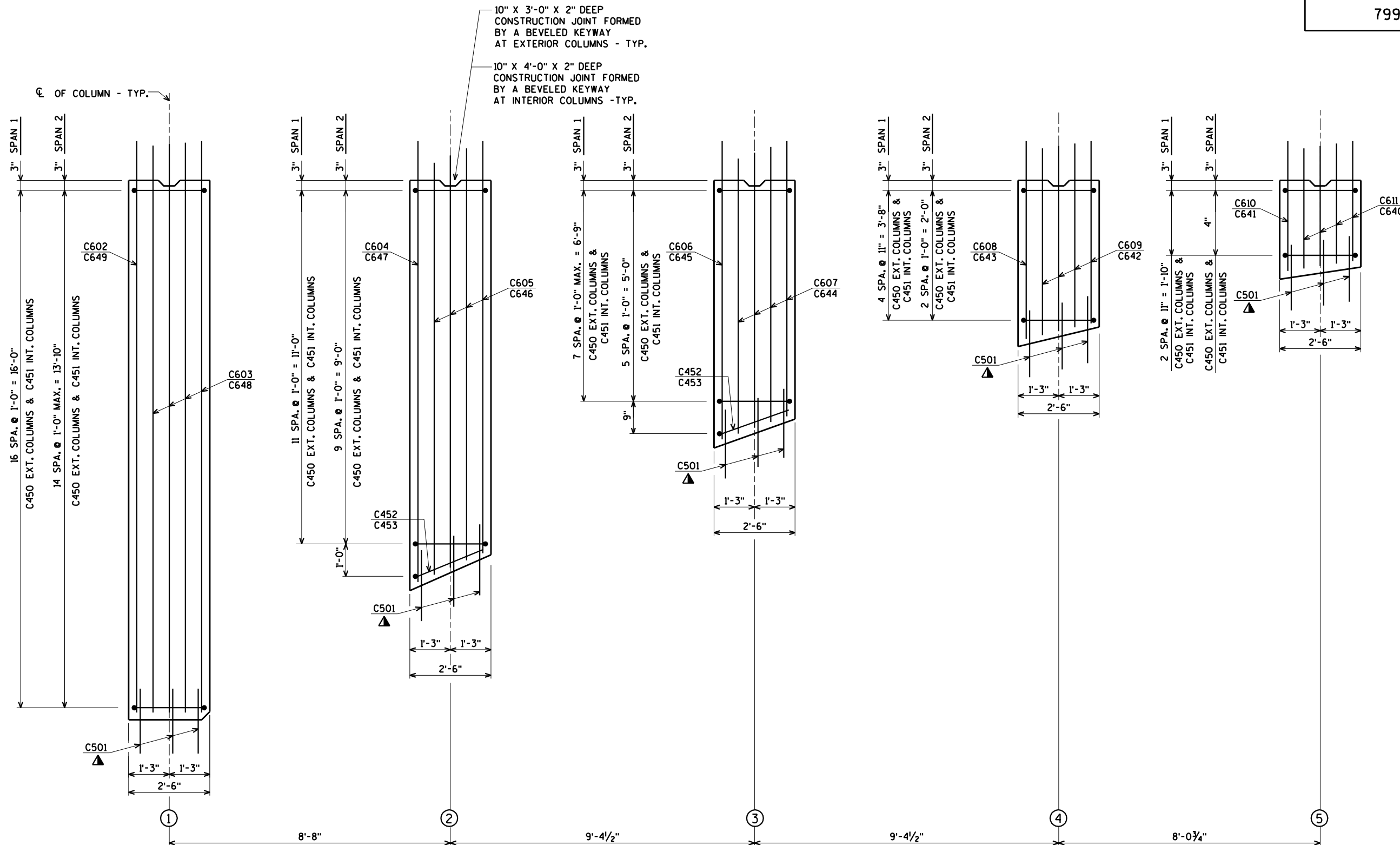
NOTE:

DEMOLITION AND POURING SEQUENCE OF THE ARCH COLUMNS SHALL BE SUCH THAT LOADING ABOUT THE CENTERLINE OF THE PIER WILL NOT BE UNBALANCED BY MORE THAN ONE DECK PANEL LENGTH. THE DISTANCE BETWEEN TWO DECK JOINTS CONSTITUTES A PANEL. SEE SHEETS 19 AND 20 FOR MORE INFORMATION.

WORK THIS SHEET WITH SHEETS 6 THRU 11.

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
STRUCTURE B-18-93			
DRAWN BY CLP/CJM		PLANS CK'D.	CBM
ARCH COLUMNS LAYOUT			SHEET 5 OF 40

ORIGINAL PLANS PREPARED BY
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Eau Claire, WI 54701
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ELEVATION OF ARCH COLUMNS 1 THRU 5
(LOOKING WEST AT SPAN 1, LOOKING EAST AT SPAN 2 SIMILAR)

▲ ADHESIVE ANCHORS NO. 5 BAR.
EMBED 1'-0 1/2" MIN.

ORIGINAL PLANS PREPARED BY
AYRES ASSOCIATES
3433 Oakwood Hills Parkway
Eau Claire, WI 54701
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WORK THIS SHEET WITH SHEETS 5 AND 10 THRU 11

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
STRUCTURE B-18-93			
DRAWN BY	CLP	PLANS CK'D.	CBM
ARCH COLUMNS 1 THRU 5 DETAILS		SHEET 6 OF 40	



E.F. DENOTES EACH FACE.

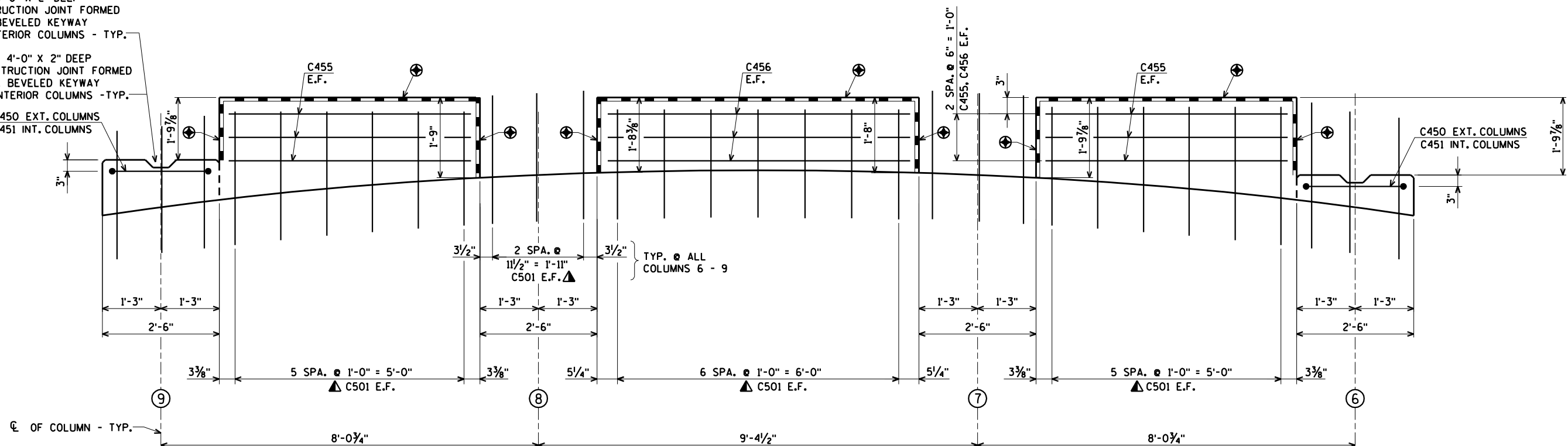


ARCH COLUMNS 6 THRU 9 SPAN 1 DETAILS	SHEET 7 OF 4
--	--------------

10" X 3'-0" X 2" DEEP
CONSTRUCTION JOINT FORMED
BY A BEVELED KEYWAY
AT EXTERIOR COLUMNS - TYP.

10" X 4'-0" X 2" DEEP
CONSTRUCTION JOINT FORMED
BY A BEVELED KEYWAY
AT INTERIOR COLUMNS - TYP.

C450 EXT. COLUMNS
C451 INT. COLUMNS



ELEVATION OF EXTERIOR ARCH COLUMNS 6 THRU 9

(SPAN 2 - LOOKING WEST AT EAST SIDE, SPAN 2 WEST SIDE SIMILAR)

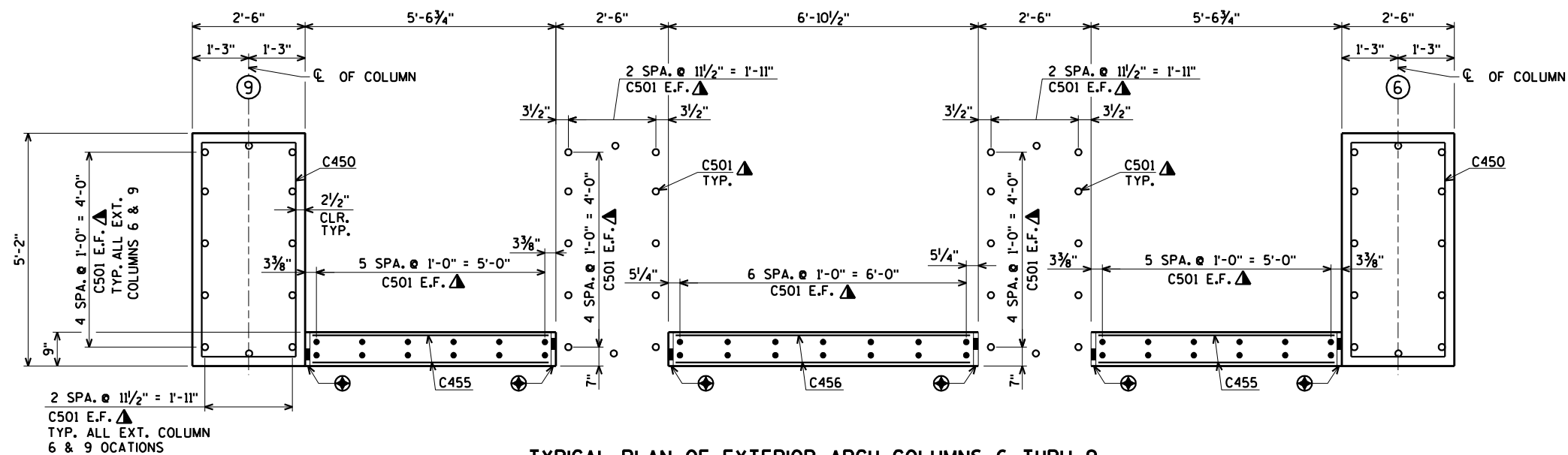
NOTE:

FIELD CUT TOP OF C501 ADHESIVE ANCHORS
AS REQUIRED TO PROVIDE 2" CLEAR. COST
TO FIELD CUT BARS IS INCLUDED IN THE COST
FOR BID ITEM "BAR STEEL REINFORCEMENT
HS STRUCTURES".

⊕ 1/2" FILLER

▲ ADHESIVE ANCHORS NO. 5 BAR.
EMBED 1'-0 1/2" MIN.

E.F. DENOTES EACH FACE.



TYPICAL PLAN OF EXTERIOR ARCH COLUMNS 6 THRU 9

(SPAN 2 - EAST SIDE SHOWN, SPAN 2 - WEST SIDE SIMILAR)

WORK THIS SHEET WITH SHEETS 5 AND 10 THRU 11

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

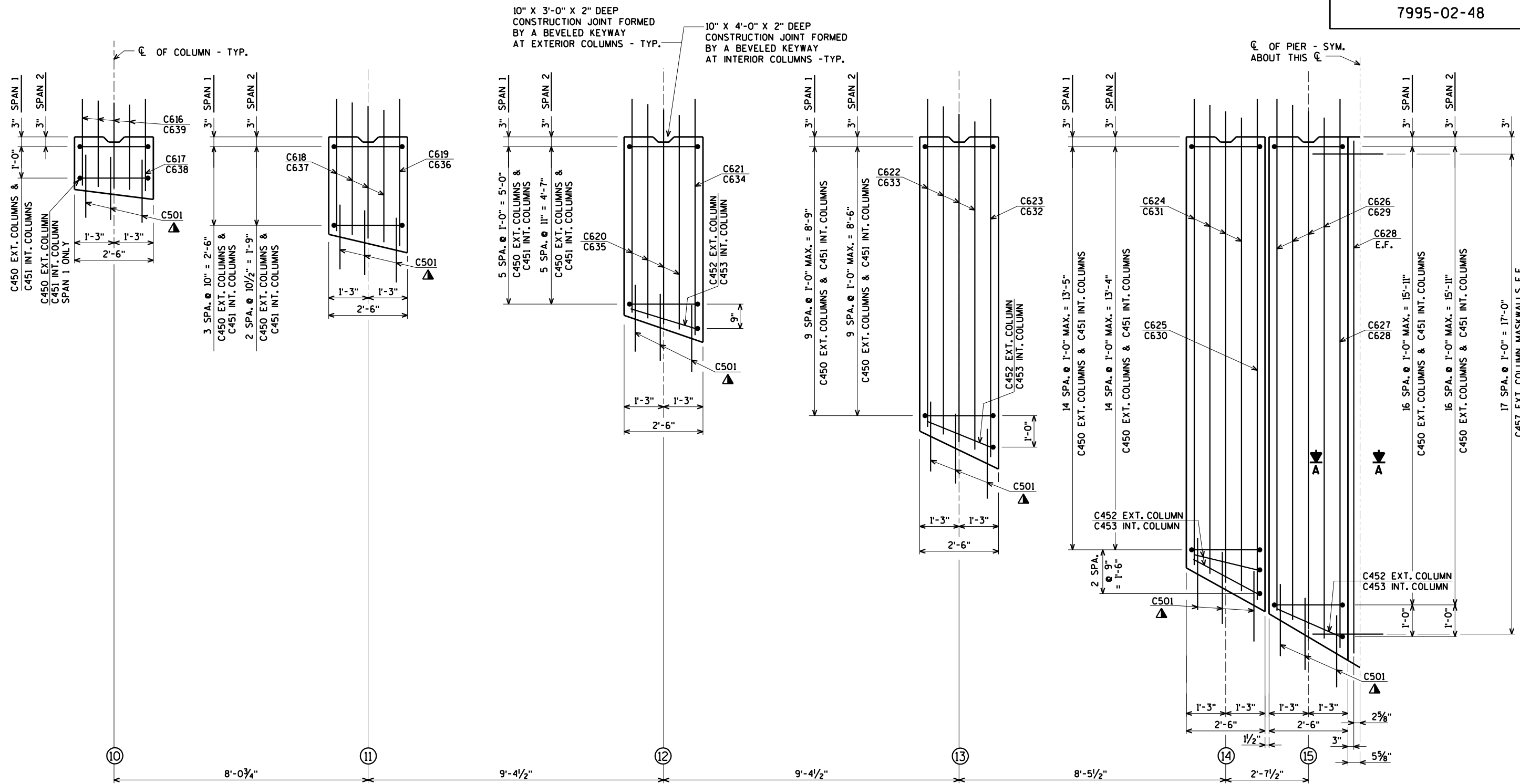
STRUCTURE B-18-93

DRAWN BY CLP PLANS CK'D. CBM

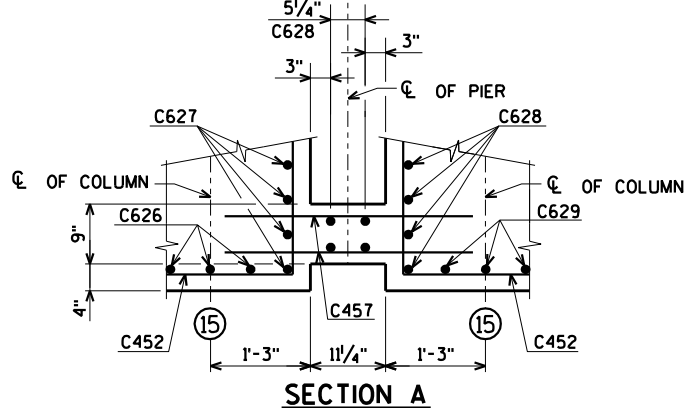
ARCH COLUMNS
6 THRU 9
SPAN 2 DETAILS

SHEET 8 OF 40

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Eau Claire, WI 54701
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ELEVATION OF ARCH COLUMNS 10 THRU 15
(LOOKING WEST AT SPAN 1, LOOKING EAST AT SPAN 2 SIMILAR)



SECTION A

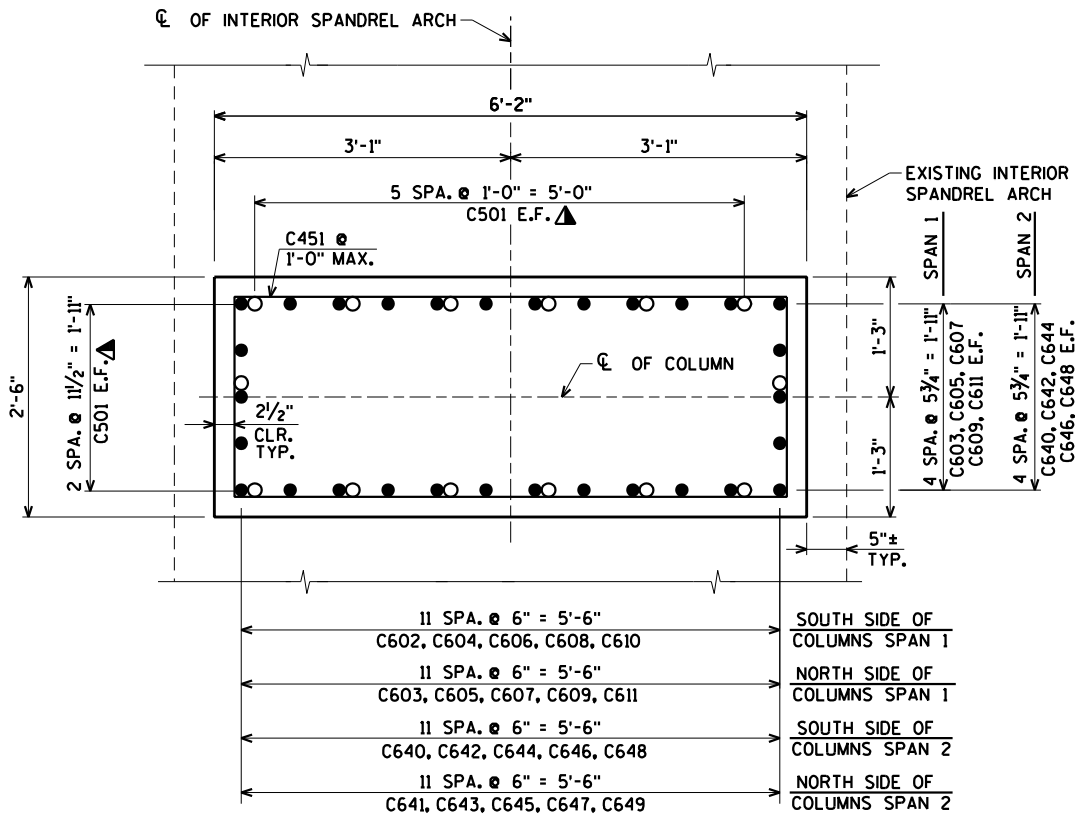
▲ ADHESIVE ANCHORS NO. 5 BAR.
EMBED 1'-0 1/2" MIN.

E.F. DENOTES EACH FACE.

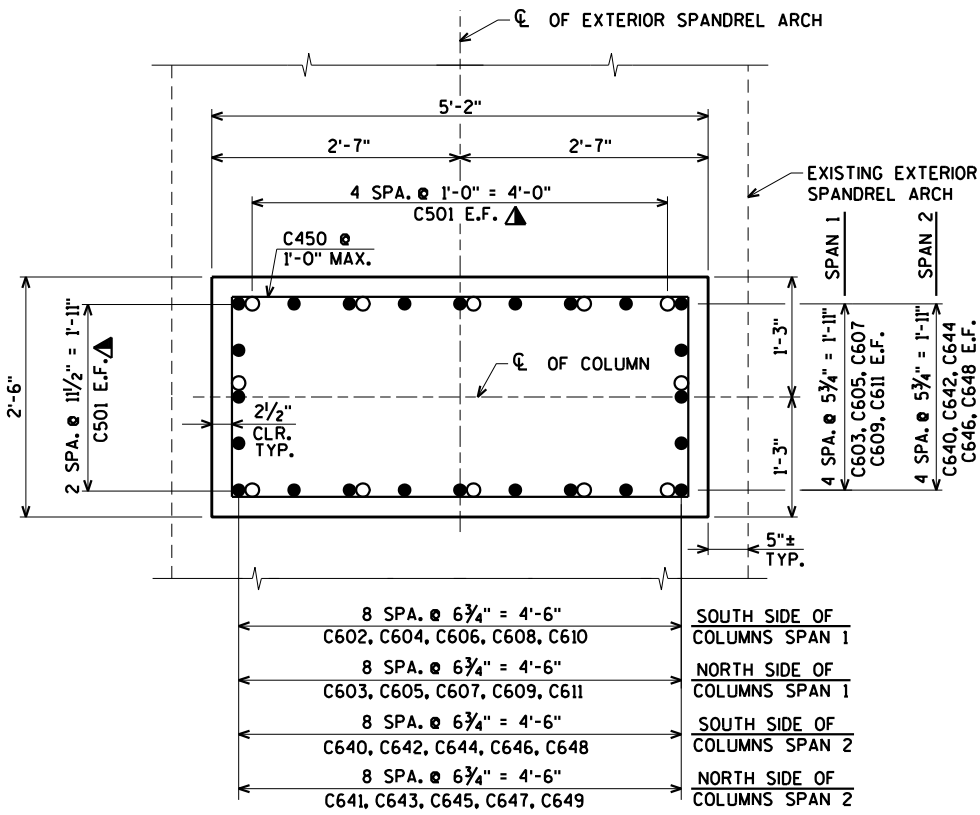
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Eau Claire, WI 54701
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WORK THIS SHEET WITH SHEETS 5 AND 10 THRU 11

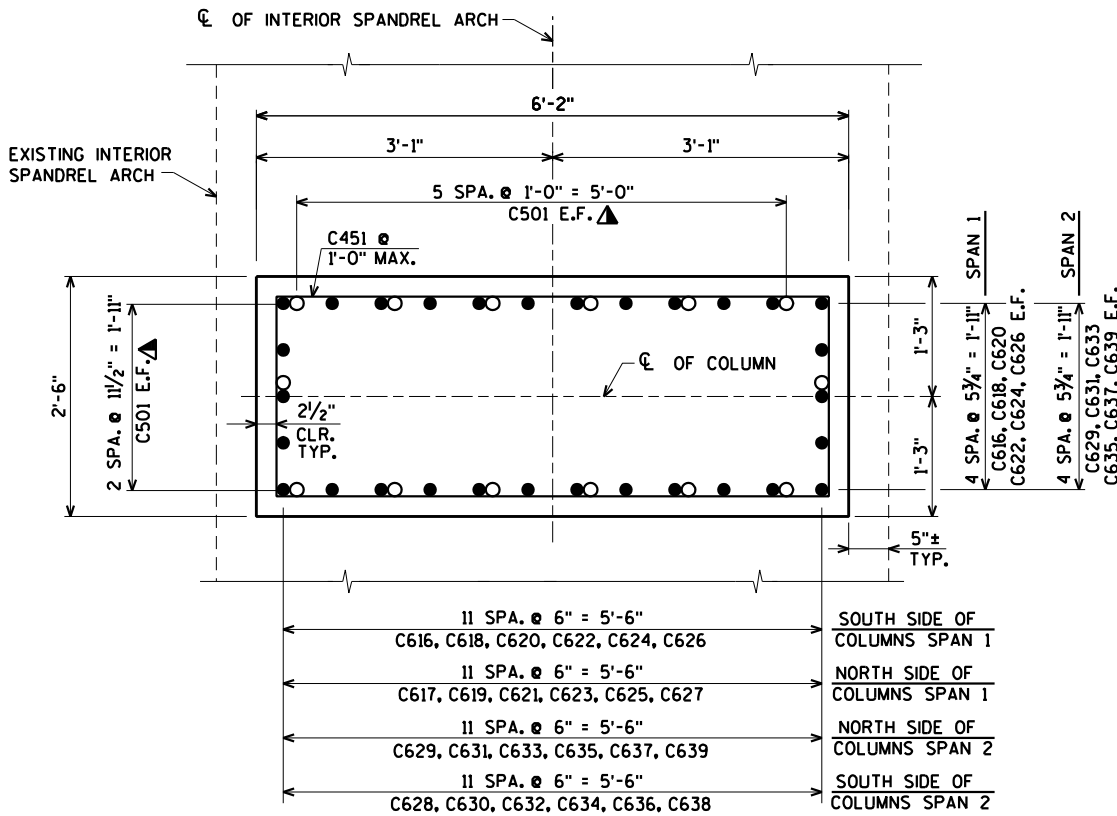
NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
STRUCTURE B-18-93			
DRAWN BY		CLP	PLANS CK'D. CBM
ARCH COLUMNS 10 THRU 15 DETAILS		SHEET 9 OF 40	



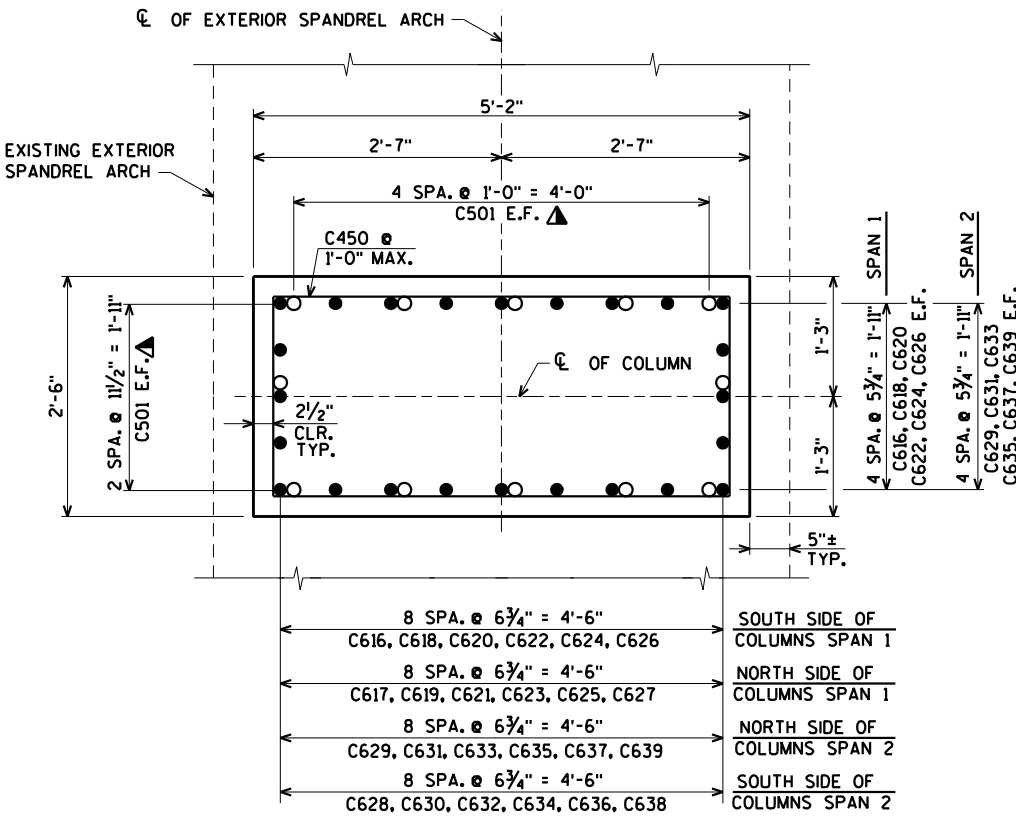
TYPICAL PLAN OF INTERIOR ARCH COLUMN 1 THRU 5



TYPICAL PLAN OF EXTERIOR ARCH COLUMN 1 THRU 5



TYPICAL PLAN OF INTERIOR ARCH COLUMN 10 THRU 15



TYPICAL PLAN OF EXTERIOR ARCH COLUMN 10 THRU 15

▲ ADHESIVE ANCHORS NO. 5 BAR.
EMBED 1'-0 1/2" MIN.

E.F. DENOTES EACH FACE.

WORK THIS SHEET WITH SHEETS 5 THRU 9 AND 11

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
STRUCTURE B-18-93			
DRAWN BY	CLP	PLANS CK'D.	CBM
ARCH COLUMN DETAILS			SHEET 10 OF 40

ORIGINAL PLANS PREPARED BY
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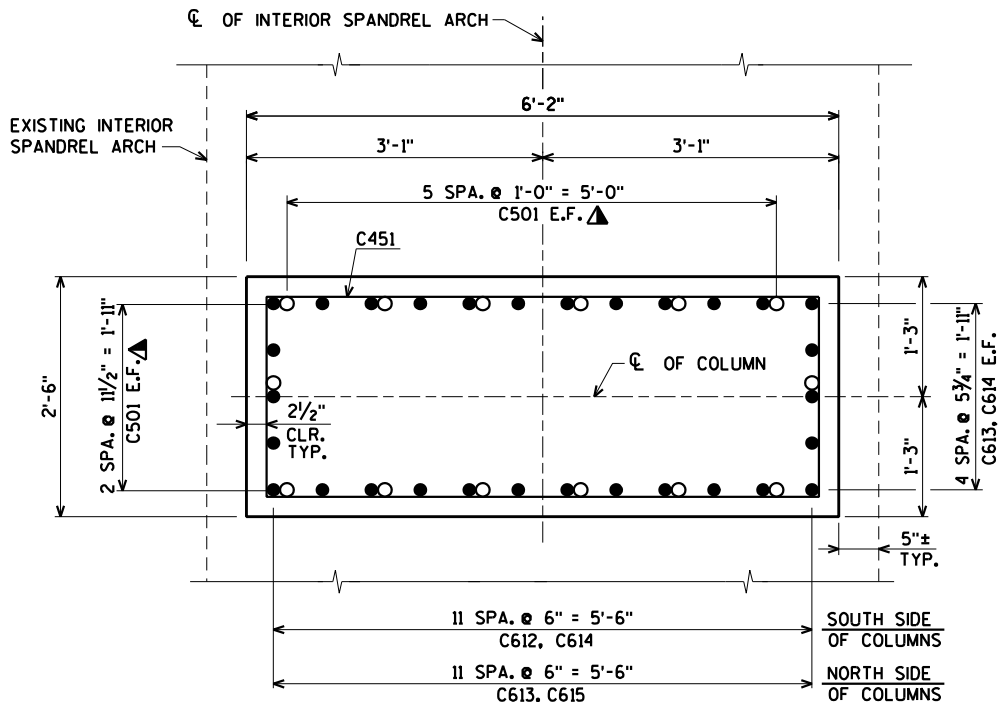
BILL OF BARS

BAR NO.	COATED BAR	NO. REQ'D.	LENGTH	BENT BAR	BUNDLED	BAR SERIES	6,550# UNCOATED 44,720# COATED
LOCATION							
C501	X	1,712	3-8				COLUMN DOWELS
C602	X	42	18-6				COLUMNS 1 SPAN 1 S. SIDE VERT.
C603	X	66	17-10				COLUMNS 1 SPAN 1 VERT.
C604	X	42	14-3				COLUMNS 2 SPAN 1 S. SIDE VERT.
C605	X	66	12-11				COLUMNS 2 SPAN 1 VERT.
C606	X	42	9-7				COLUMNS 3 SPAN 1 S. SIDE VERT.
C607	X	66	8-8				COLUMNS 3 SPAN 1 VERT.
C608	X	42	6-2				COLUMNS 4 SPAN 1 S. SIDE VERT.
C609	X	66	5-6				COLUMNS 4 SPAN 1 VERT.
C610	X	42	4-2				COLUMNS 5 SPAN 1 S. SIDE VERT.
C611	X	66	3-8				COLUMNS 5 SPAN 1 VERT.
C612	X	42	3-7				COLUMNS 6 SPAN 1 S. SIDE VERT.
C613	X	66	3-3				COLUMNS 6 SPAN 1 VERT.
C614	X	66	2-8				COLUMNS 9 SPAN 1 VERT.
C615	X	42	2-11				COLUMNS 9 SPAN 1 N. SIDE VERT.
C616	X	66	2-11				COLUMNS 10 SPAN 1 VERT.
C617	X	42	3-3				COLUMNS 10 SPAN 1 N. SIDE VERT.
C618	X	66	4-4				COLUMNS 11 SPAN 1 VERT.
C619	X	42	5-0				COLUMNS 11 SPAN 1 N. SIDE VERT.
C620	X	66	6-11				COLUMNS 12 SPAN 1 VERT.
C621	X	42	7-10				COLUMNS 12 SPAN 1 N. SIDE VERT.
C622	X	66	10-8				COLUMNS 13 SPAN 1 VERT.
C623	X	42	11-11				COLUMNS 13 SPAN 1 N. SIDE VERT.
C624	X	66	15-4				COLUMNS 14 SPAN 1 VERT.
C625	X	42	17-6				COLUMNS 14 SPAN 1 N. SIDE VERT.
C626	X	66	17-7				COLUMNS 15 SPAN 1 VERT.
C627	X	42	18-11				COLUMNS 15 SPAN 1 N. SIDE VERT.
C628	X	50	18-10				COLUMNS 15 SPAN 2 S. SIDE VERT. AND MASKWALL
C629	X	66	17-7				COLUMNS 15 SPAN 2 VERT.
C630	X	42	17-5				COLUMNS 14 SPAN 2 S. SIDE VERT.
C631	X	66	15-3				COLUMNS 14 SPAN 2 VERT.
C632	X	42	11-8				COLUMNS 13 SPAN 2 S. SIDE VERT.
C633	X	66	10-5				COLUMNS 13 SPAN 2 VERT.
C634	X	42	7-5				COLUMNS 12 SPAN 2 S. SIDE VERT.
C635	X	66	6-6				COLUMNS 12 SPAN 2 VERT.
C636	X	42	4-4				COLUMNS 11 SPAN 2 S. SIDE VERT.
C637	X	66	3-8				COLUMNS 11 SPAN 2 VERT.
C638	X	42	2-6				COLUMNS 10 SPAN 2 S. SIDE VERT.
C639	X	66	2-2				COLUMNS 10 SPAN 2 VERT.
C640	X	66	2-3				COLUMNS 5 SPAN 2 VERT.
C641	X	42	2-8				COLUMNS 5 SPAN 2 S. SIDE VERT.
C642	X	66	3-11				COLUMNS 4 SPAN 2 VERT.
C643	X	42	4-7				COLUMNS 4 SPAN 2 S. SIDE VERT.
C644	X	66	6-10				COLUMNS 3 SPAN 2 VERT.
C645	X	42	7-10				COLUMNS 3 SPAN 2 S. SIDE VERT.
C646	X	66	11-0				COLUMNS 2 SPAN 2 VERT.
C647	X	42	12-3				COLUMNS 2 SPAN 2 S. SIDE VERT.
C648	X	66	15-8				COLUMNS 1 SPAN 2 VERT.
C649	X	42	16-4				COLUMNS 1 SPAN 2 S. SIDE VERT.
C450	X	420	14-2	X			EXTERIOR COLUMNS HORIZ.
C451	X	420	16-2	X			INTERIOR COLUMNS HORIZ.
C452	X	28	8-9	X			EXTERIOR COLUMNS HORIZ. BOT.
C453	X	28	10-9	X			INTERIOR COLUMNS HORIZ. BOT.
C454	X	8	27-6				EXTERIOR COLUMN MASKWALLS SPAN 1 AT COLUMNS 6 THRU 9
C455	X	48	5-2				EXTERIOR COLUMN MASKWALLS BTWN COLUMNS 6 & 7 AND 8 & 9
C456	X	24	6-6				EXTERIOR COLUMN MASKWALLS BTWN COLUMNS 7 & 8
C457	X	72	3-5				COLUMNS 15 MASKWALL HORIZ. E.F.

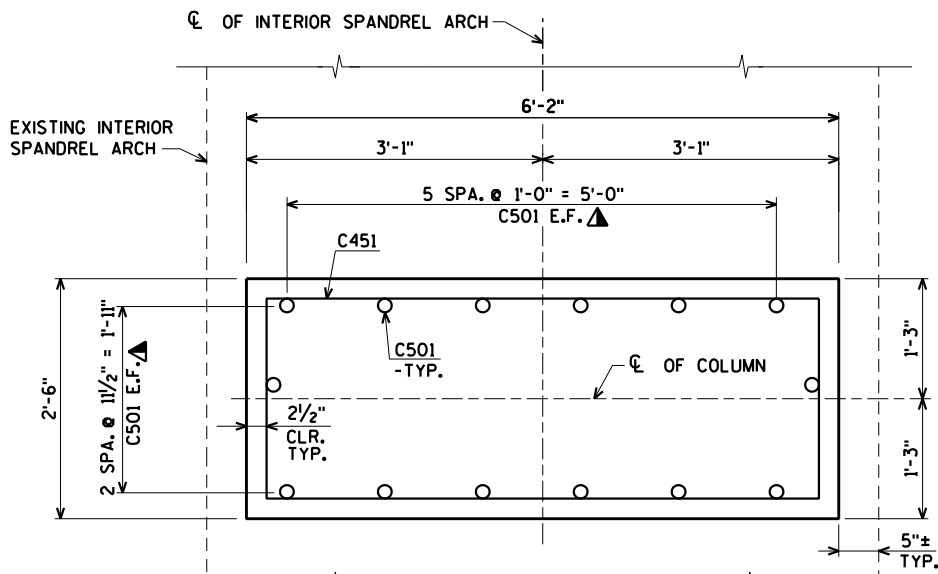
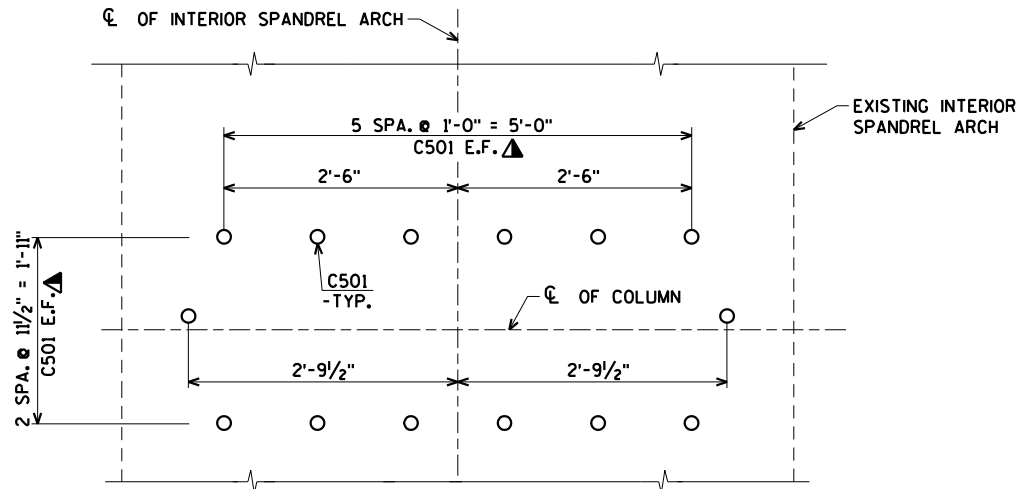
BENDING DIMENSIONS ARE OUT TO OUT OF BARS.

▲ ADHESIVE ANCHORS NO. 5 BAR.
EMBED 1'-0 1/2" MIN.

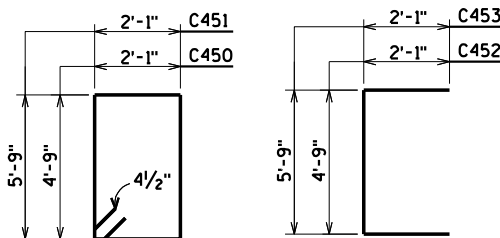
E.F. DENOTES EACH FACE



TYPICAL PLAN OF SPAN 1 INTERIOR ARCH COLUMNS 6 AND 9

TYPICAL PLAN OF SPAN 1 INTERIOR ARCH COLUMNS 7 AND 8
AND SPAN 2 INTERIOR ARCH COLUMNS 6 AND 9

TYPICAL PLAN OF SPAN 2 INTERIOR ARCH COLUMNS 7 AND 8



WORK THIS SHEET WITH SHEETS 5 THRU 10

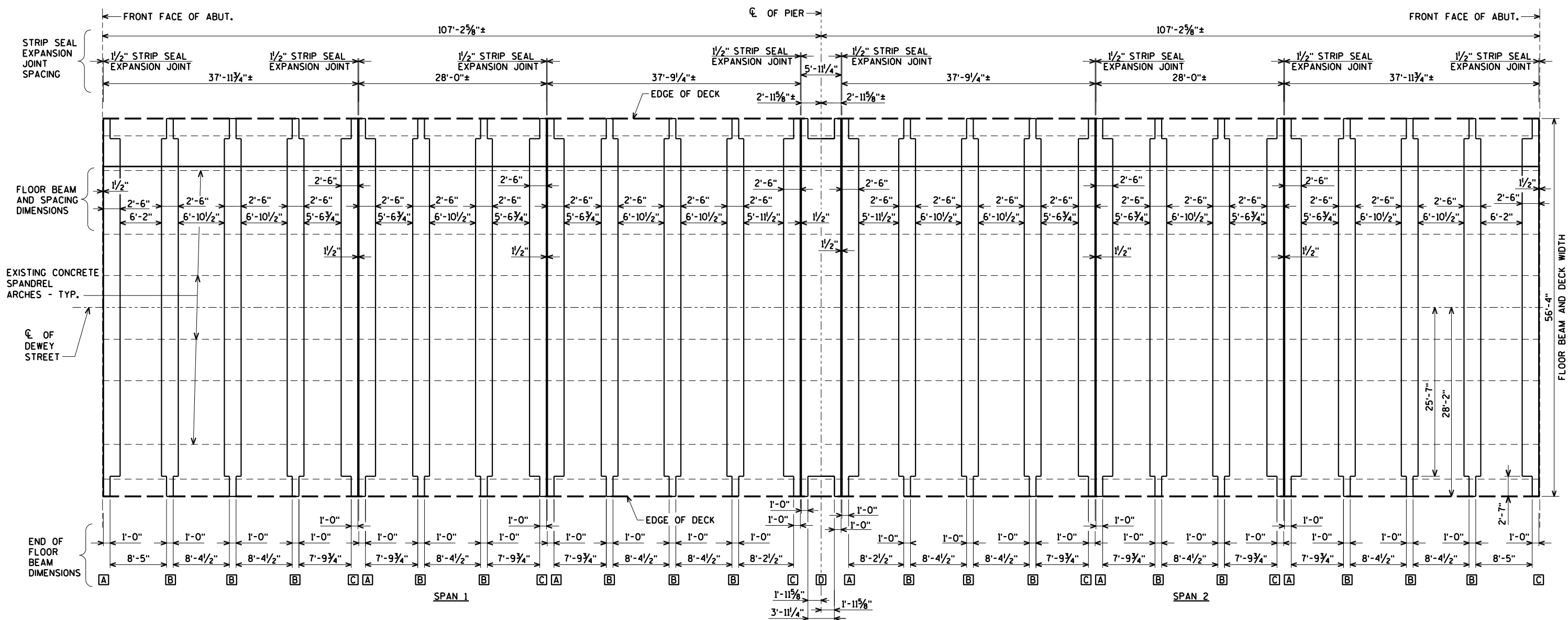
NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
STRUCTURE B-18-93			
DRAWN BY		CLP	PLANS CK'D. CBM
ARCH COLUMNS BILL OF BARS AND DETAILS			SHEET 11 OF 40

ORIGINAL PLANS PREPARED BY
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U:\42-1123.00 - City of Eau Claire, Dewey Street Bridge Rehab\Structures\Final Structure\421123 floor beam.dgn

STATE PROJECT NUMBER

7995-02-48



FLOOR BEAM LAYOUT

□ FLOOR BEAM DESIGNATION

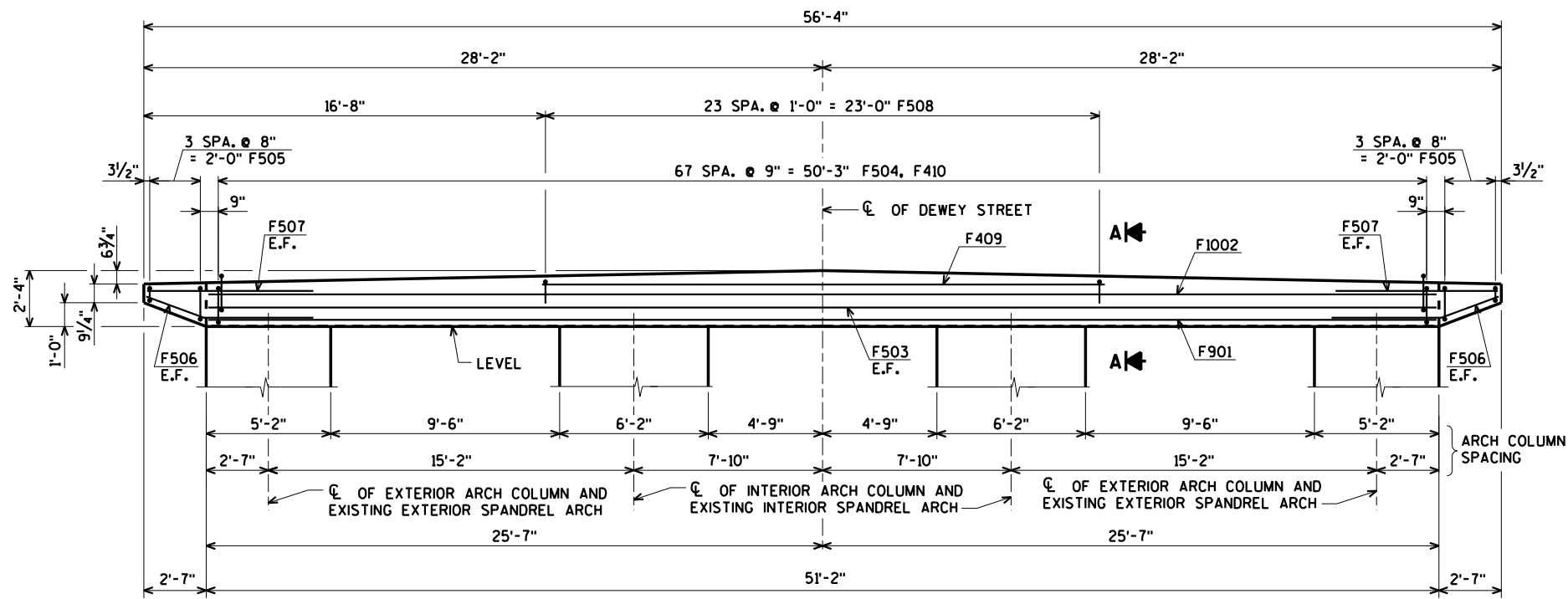
NOTE:

DEMOLITION AND POURING SEQUENCE OF THE FLOOR BEAMS SHALL BE SUCH THAT LOADING ABOUT THE CENTERLINE OF THE PIER WILL NOT BE UNBALANCED BY MORE THAN ONE DECK PANEL LENGTH. THE DISTANCE BETWEEN TWO DECK JOINTS CONSTITUTES A PANEL. SEE SHEETS 19 AND 20 FOR MORE INFORMATION.

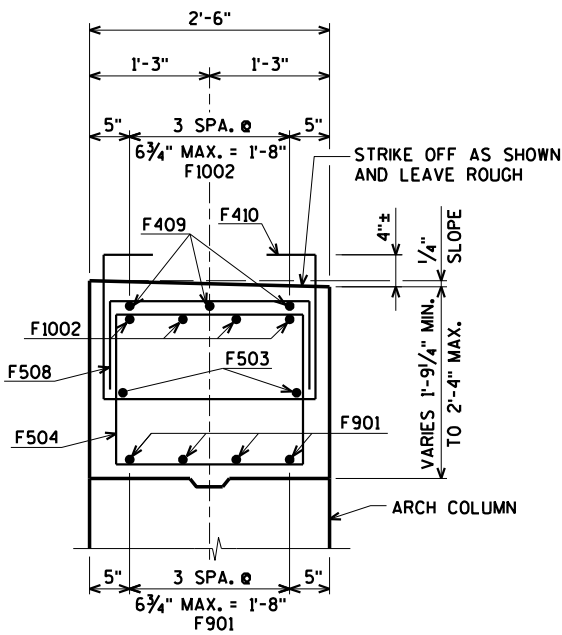
WORK THIS SHEET WITH SHEETS 13 THRU 17

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
STRUCTURE B-18-93			
DRAWN BY	CLP	PLANS CK'D.	CBM
FLOOR BEAM LAYOUT			SHEET 12 OF 40

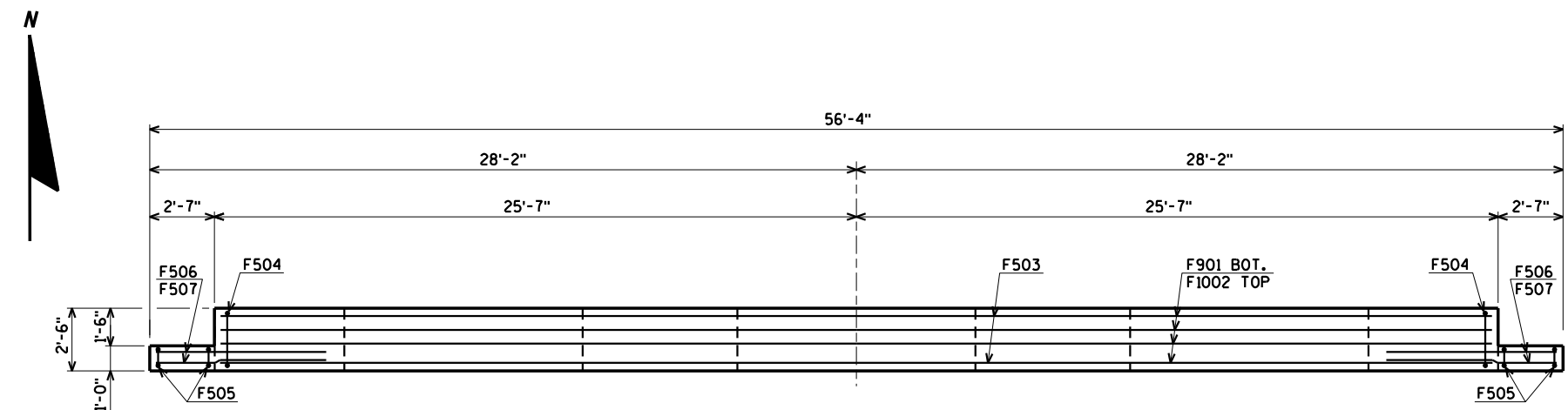
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Eau Claire, WI 54701
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FLOOR BEAM A ELEVATION
(LOOKING NORTH)



SECTION A
(LOOKING WEST)



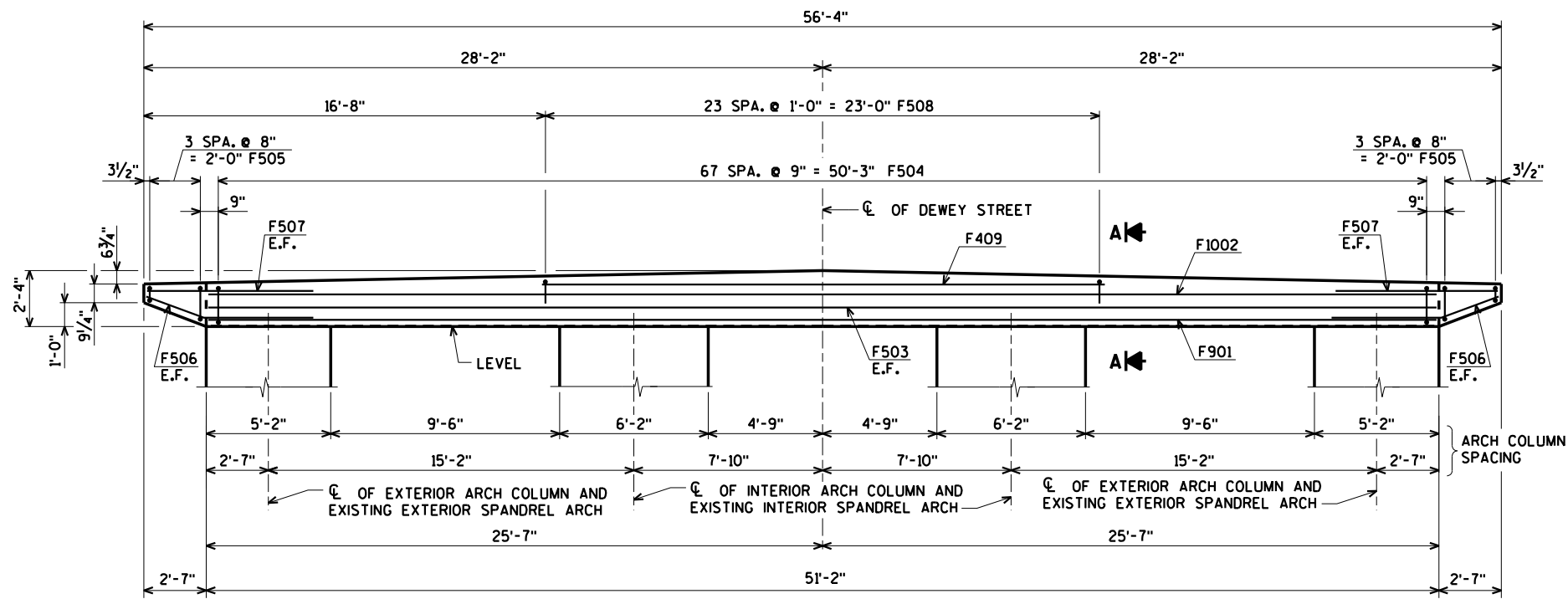
FLOOR BEAM A PLAN

E.F. DENOTES EACH FACE

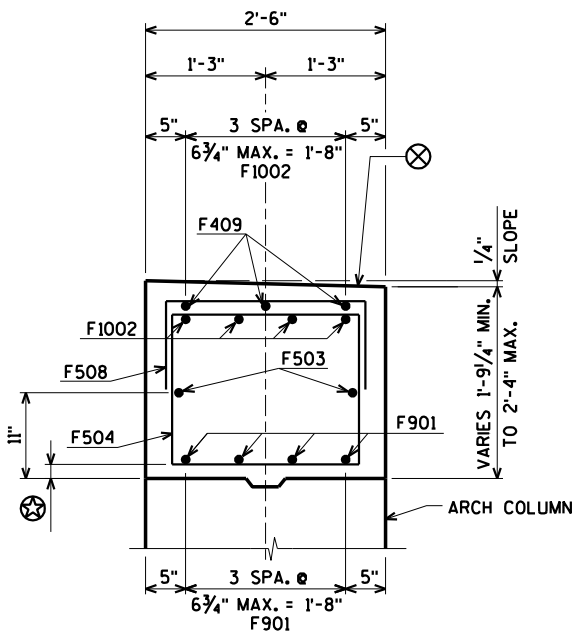
ORIGINAL PLANS PREPARED BY
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WORK THIS SHEET WITH SHEETS 12 AND 17

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
STRUCTURE B-18-93			
DRAWN BY		CLP	PLANS CK'D. CBM
FLOOR BEAM A DETAILS			SHEET 13 OF 40



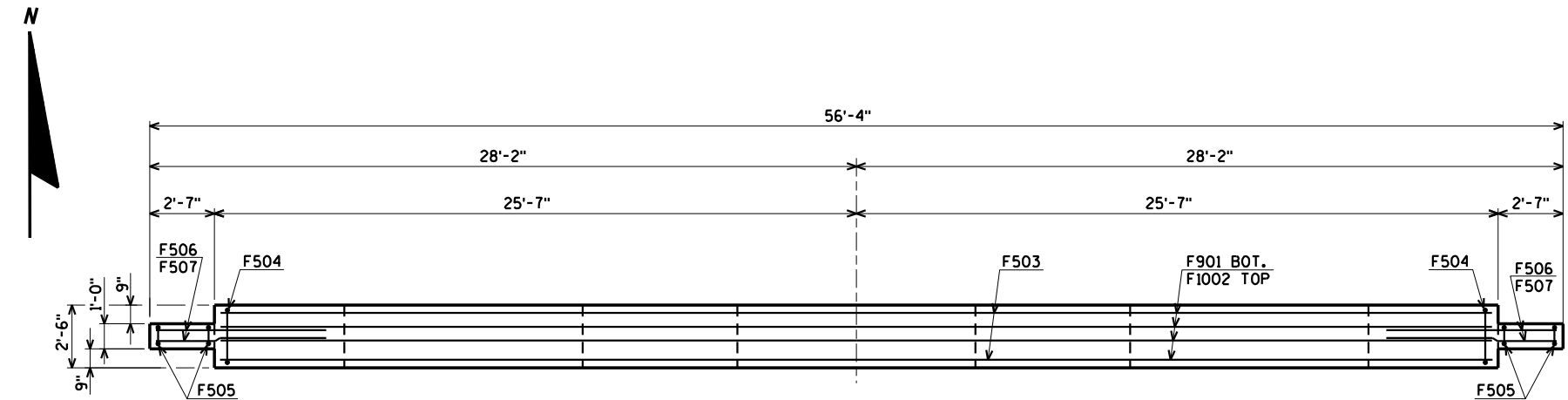
FLOOR BEAM B ELEVATION
(LOOKING NORTH)



SECTION A
(LOOKING WEST)

⊗ STEEL TROWEL TOP SURFACE OF FLOOR BEAM. PLACE MULTIPLE LAYERS OF POLYETHYLENE SHEETS OVER ENTIRE FLOOR BEAM BEFORE PLACING DECK. TOTAL THICKNESS OF SHEETS SHALL BE AT LEAST 0.03".

⊗ USE 1/2" CLEAR AND TILT F504 BARS AT COLUMN 7 & 8 OVER CONCRETE SPANDREL ARCHES IN SPAN 2.



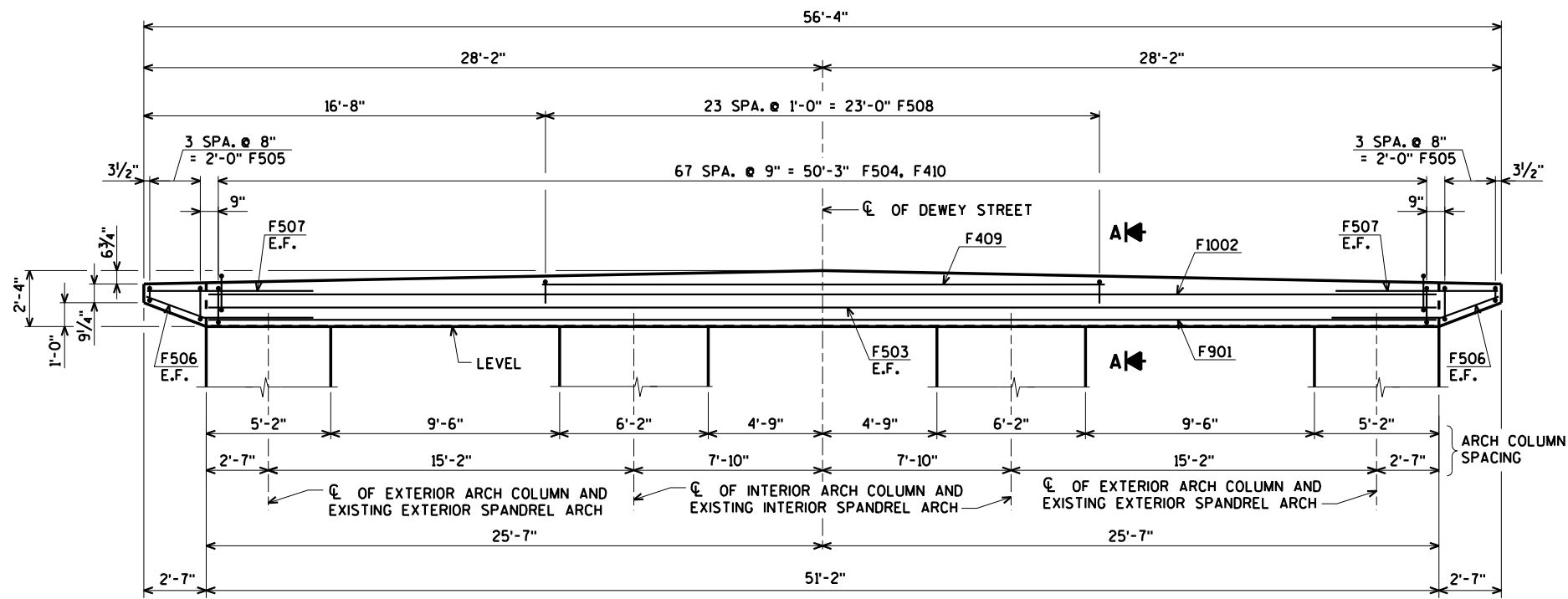
FLOOR BEAM B PLAN

E.F. DENOTES EACH FACE

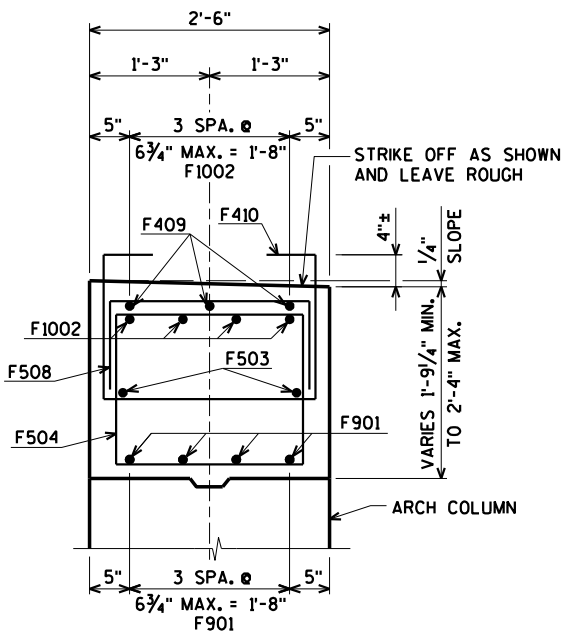
WORK THIS SHEET WITH SHEETS 12 AND 17

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
STRUCTURE B-18-93			
DRAWN BY		CLP	PLANS CK'D. CBM
FLOOR BEAM B DETAILS			SHEET 14 OF 40

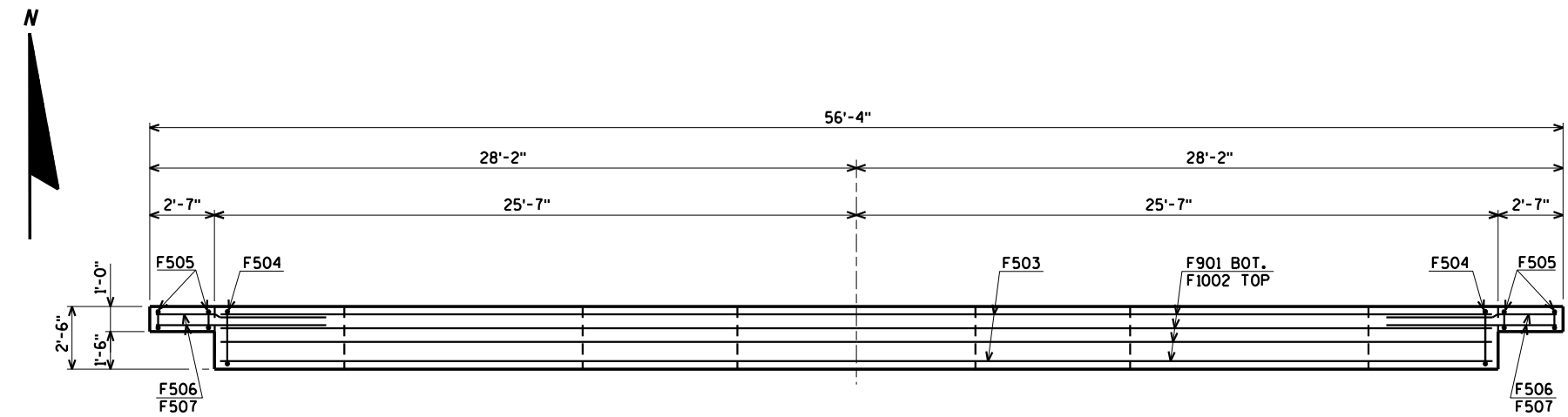
ORIGINAL PLANS PREPARED BY
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3433 Oakwood Hills Parkway
Eau Claire, WI 54701
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FLOOR BEAM C ELEVATION
(LOOKING NORTH)



SECTION A
(LOOKING WEST)



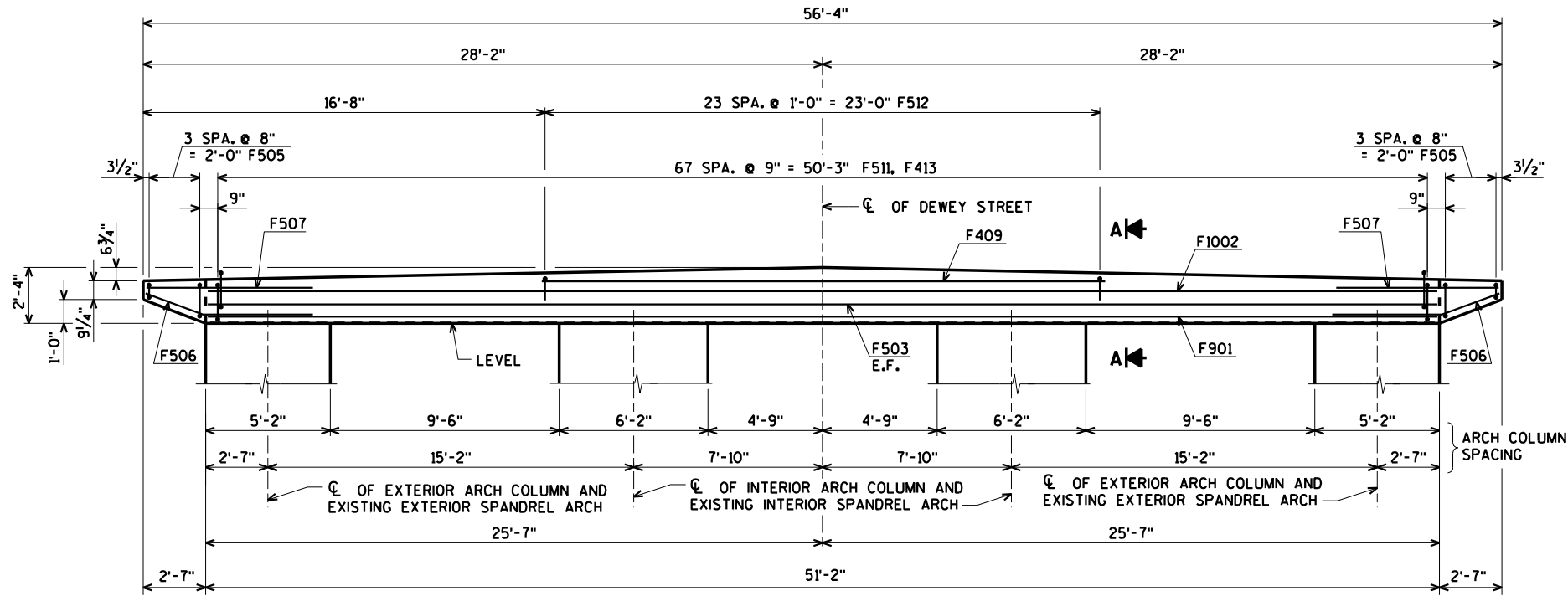
FLOOR BEAM C PLAN

E.F. DENOTES EACH FACE

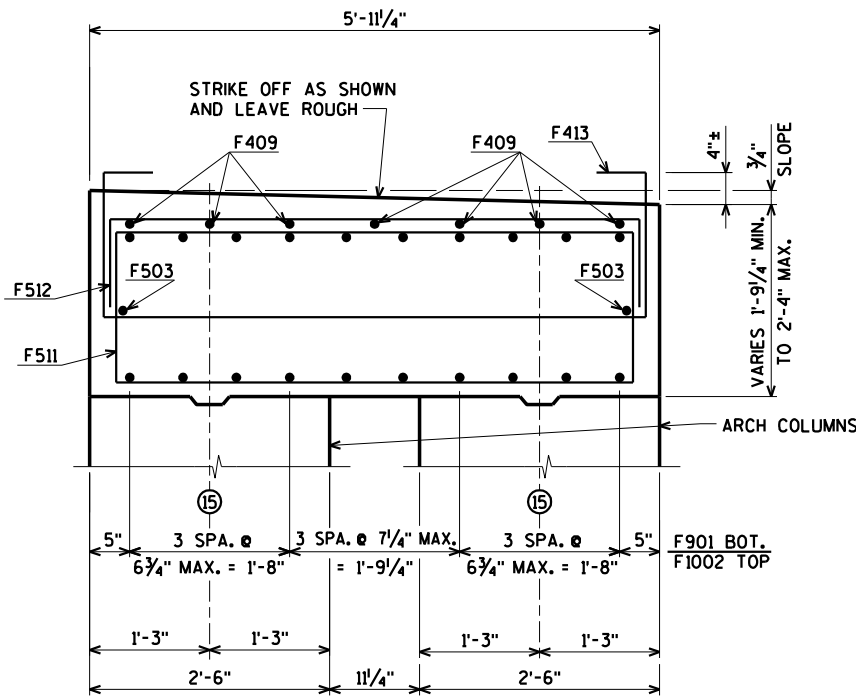
ORIGINAL PLANS PREPARED BY
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WORK THIS SHEET WITH SHEETS 12 AND 17

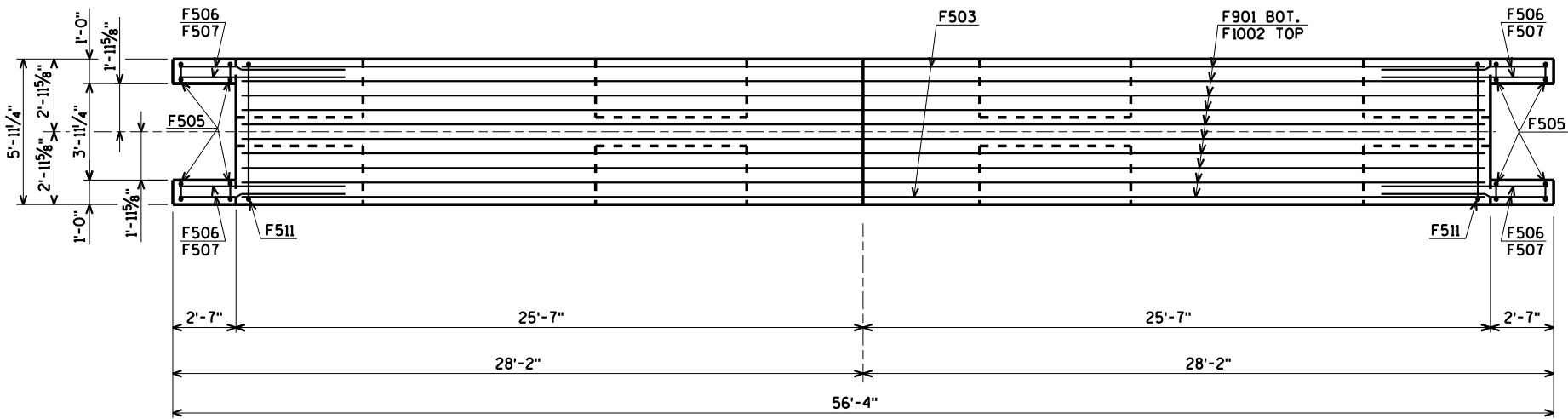
NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
STRUCTURE B-18-93			
DRAWN BY		CLP	PLANS CK'D. CBM
FLOOR BEAM C DETAILS			SHEET 15 OF 40



FLOOR BEAM D ELEVATION
(LOOKING NORTH)



SECTION A
(LOOKING WEST)



FLOOR BEAM D PLAN



E.F. DENOTES EACH FACE

WORK THIS SHEET WITH SHEETS 12 AND 17

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
STRUCTURE B-18-93			
DRAWN BY		CLP	PLANS CK'D. CBM
FLOOR BEAM D DETAILS			SHEET 16 OF 40

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STATE PROJECT NUMBER

7995-02-48

BAR SERIES TABLE

BAR MARK	NO REQ'D.	LENGTH
F505	60 SERIES OF 4	2'-11 TO 4'-5"

BUNDLE AND TAG EACH SERIES SEPARATELY.

1'-5"

1'-5"

5'-6"

2'-1"

5/2"

F511

F504

VARIES FROM 6" TO 1'-3" IN INCREMENTS OF 3"

5/2"

8"

F505

1'-0"

2'-7"

F506

5'-6"

2'-1"

1'-7"

1'-7"

F512

F508

8"

2'-1"

1'-3"

F410

8"

5'-6"

1'-3"

F413

BILL OF BARS

BAR NO.	COATED BAR	NO. REQ'D.	LENGTH	BENT BAR	BUNDLED BAR SERIES	77,750# COATED
						LOCATION
F901	X	122	50-10			FLOOR BEAM HORIZ. BOT.
F1002	X	122	50-10			FLOOR BEAM HORIZ. TOP
F503	X	58	50-10			FLOOR BEAM HORIZ. SIDES
F504	X	1,904	7-7	X		FLOOR BEAM STIRRUP VERT.
F505	X	240	3-8	X	⊗	FLOOR BEAM ENDS VERT.
F506	X	120	5-5	X		FLOOR BEAM ENDS HORIZ. BOT.
F507	X	120	5-0			FLOOR BEAM ENDS HORIZ. TOP
F508	X	672	5-0	X		FLOOR BEAM VERT. TOP
F409	X	91	23-6			FLOOR BEAM HORIZ. TOP
F410	X	816	5-7	X		FLOOR BEAMS A & C VERT. TOP
F511	X	68	14-5	X		FLOOR BEAM D STIRRUP VERT.
F512	X	24	8-5	X		FLOOR BEAM D VERT. TOP
F413	X	68	9-0	X		FLOOR BEAM D VERT. TOP

BENDING DIMENSIONS ARE OUT TO OUT OF BARS.

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

WORK THIS SHEET WITH SHEETS 12 THRU 16.

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
STRUCTURE B-18-93			
DRAWN BY		CLP	PLANS CK'D. CBM
FLOOR BEAM BILL OF BARS			SHEET 17 OF 40

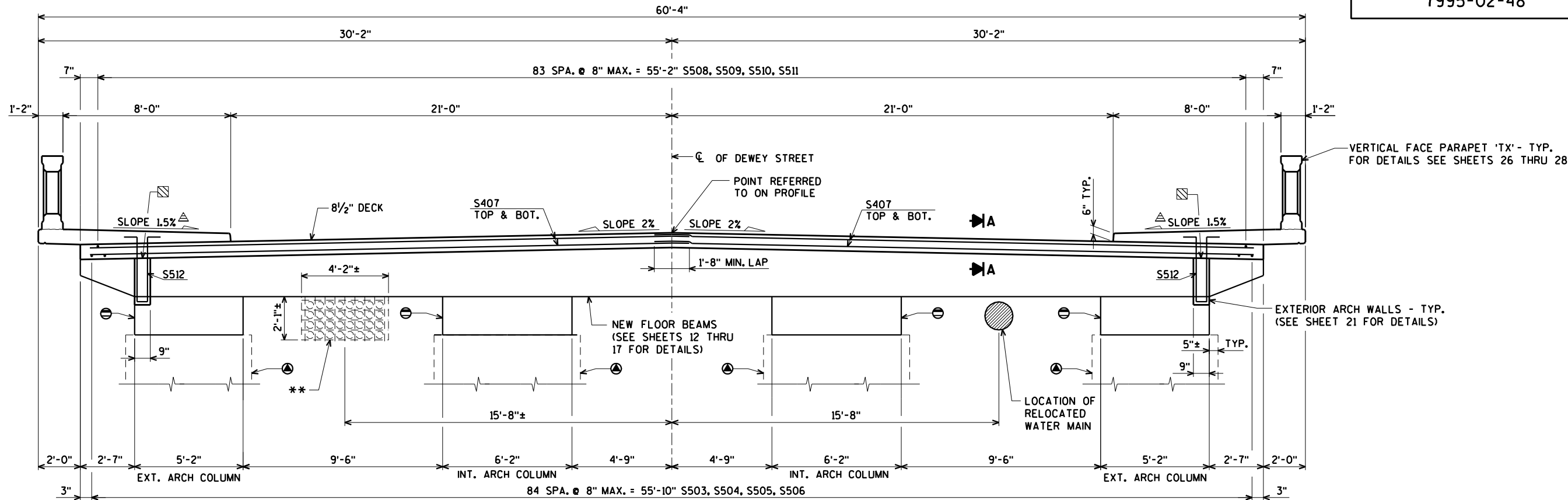
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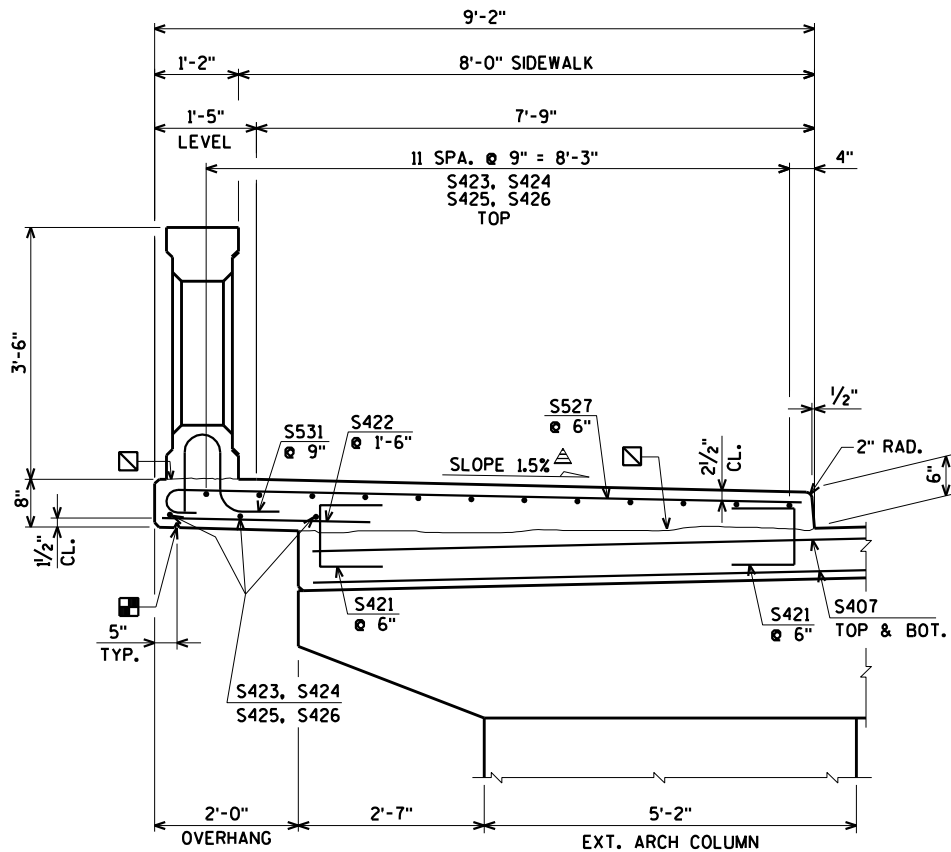
U:\42-1123.00 - City of Eau Claire,Dewey Street Bridge Rehab\Structures\Final Structure\421123 floor beam.DGN

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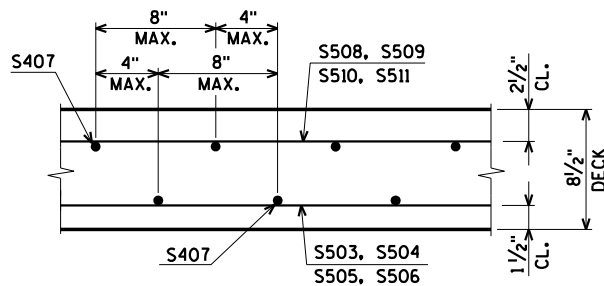


** EXISTING TELEPHONE CONDUITS (TO BE REMOVED PRIOR TO CONSTRUCTION, TEMPORARILY SUPPORTED AERIALY TO THE WEST, AND THE NEW DUCT PACKAGE REATTACHED TO THE BRIDGE DURING CONSTRUCTION.)

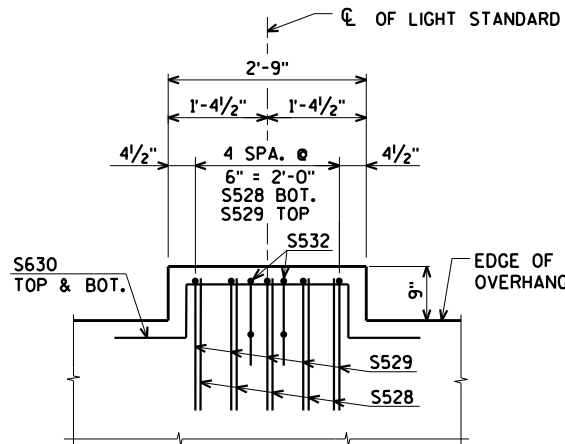
TYPICAL CROSS SECTION THRU DECK
(LOOKING NORTH)



TYPICAL CROSS SECTION THRU SIDEWALK



SECTION A



PLAN OF LIGHT STANDARD DETAIL AT SIDEWALK

- ⊙ EXISTING CONCRETE SPANDREL ARCHES TO REMAIN IN PLACE (SEE SHEET 4 FOR DETAILS)
- ⊙ NEW ARCH COLUMNS (SEE SHEETS 5 THRU 11 FOR DETAILS)
- ⊠ OPTIONAL CONSTRUCTION JOINT STRIKE OFF AND LEAVE ROUGH
- △ ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.
- ⊠ 3/4" V - GROOVE. EXTEND V - GROOVE TO 6" FROM FRONT FACE OF ABUTMENTS - TYP.
- ⊠ CONST. JOINT - STRIKE OFF AS SHOWN AND LEAVE ROUGH. FOR DECK POUR, MATCH BRIDGE X-SLOPE.

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
STRUCTURE B-18-93			
DRAWN BY		CLP	PLANS CK'D. CBM
SUPERSTRUCTURE			SHEET 18 OF 40

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THE CONTRACTOR MAY SUBMIT HIS OWN
SEQUENCE OF DEMOLITION AND POURING
TO THE ENGINEER FOR APPROVAL.



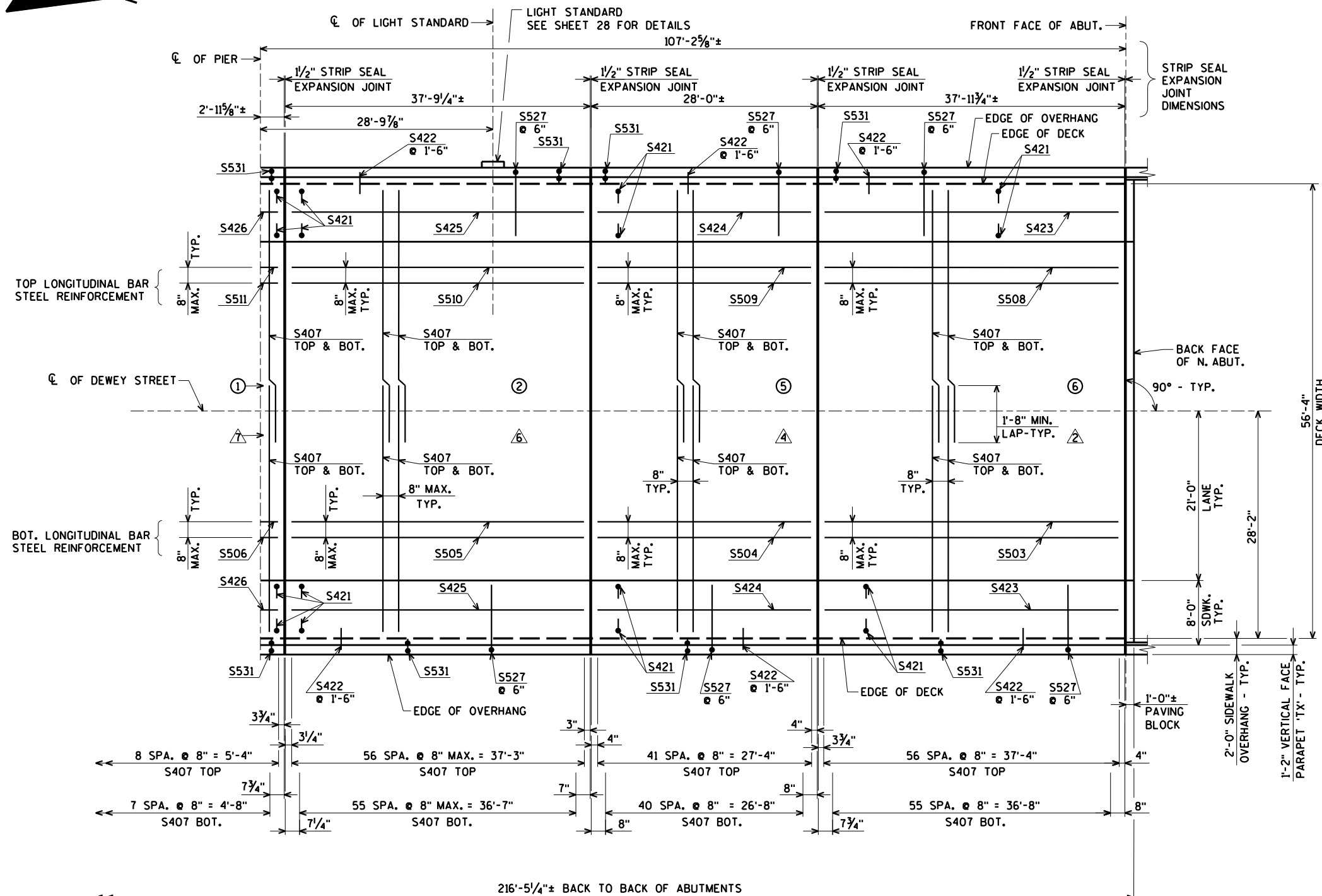
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STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
STRUCTURE B-18-93			
DRAWN BY		CLP	PLANS CK'D. CBM
SUPERSTRUCTURE SPAN 1 PLAN		SHEET 19 OF 40	

NOTE: DEMOLITION AND POURING SEQUENCE SHALL BE SUCH THAT LOADING ABOUT THE CENTERLINE OF THE PIER WILL NOT BE UNBALANCED BY MORE THAN ONE PANEL. THE DISTANCE BETWEEN TWO DECK JOINTS CONSTITUTES A PANEL.

○ INDICATES POSSIBLE DEMOLITION SEQUENCE

△ INDICATES POSSIBLE POURING SEQUENCE.

THE CONTRACTOR MAY SUBMIT HIS OWN SEQUENCE OF DEMOLITION AND POURING TO THE ENGINEER FOR APPROVAL.



PARTIAL PLAN - SPAN 2

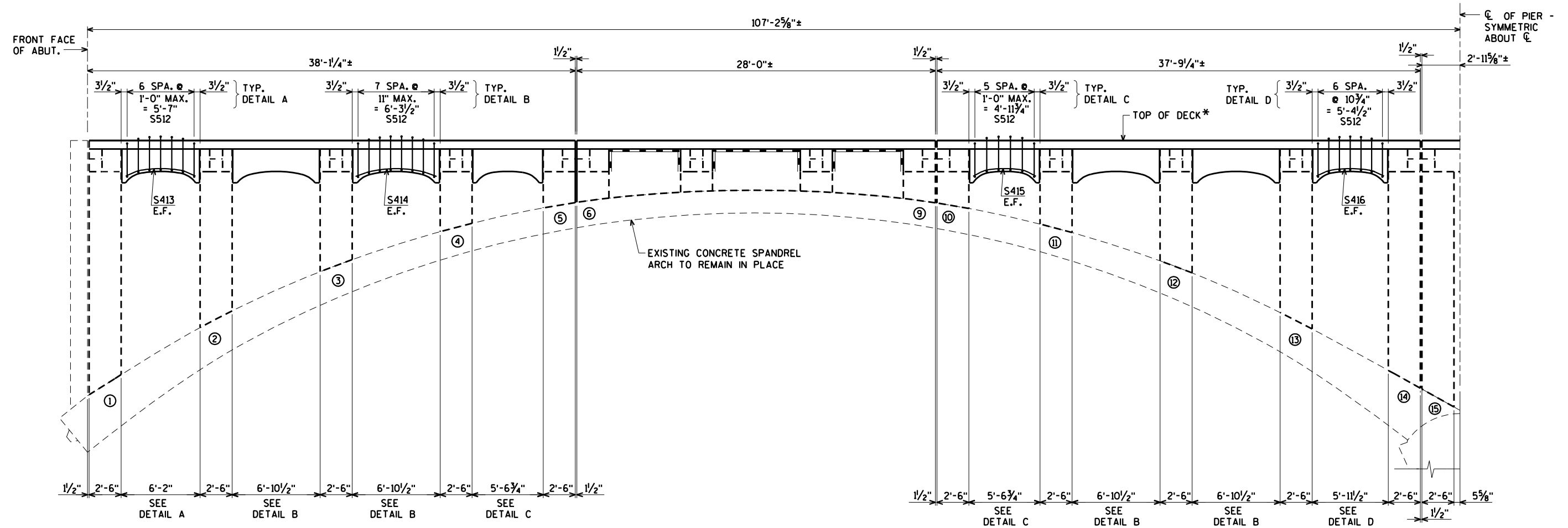
NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
STRUCTURE B-18-93			
DRAWN BY		CLP	PLANS CK'D. CBM
SUPERSTRUCTURE SPAN 2 PLAN			SHEET 20 OF 40

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Ut:42-1123.00 - City of Eau Claire, Dewey Street Bridge Rehab±Structures±Final Structure±421123 arch.dgn

STATE PROJECT NUMBER

7995-02-48



ELEVATION OF EXTERIOR ARCH WALL

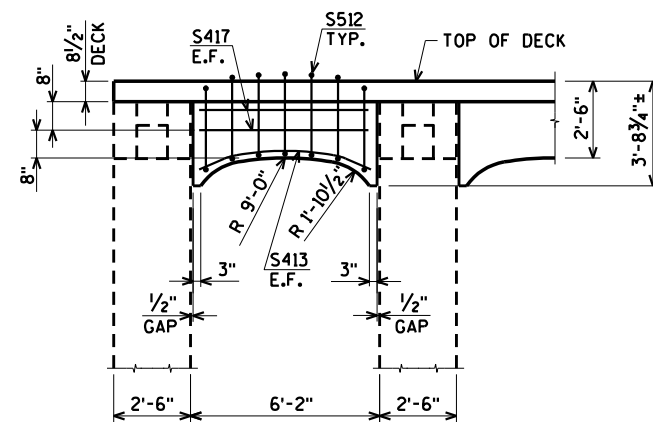
(LOOKING WEST AT SPAN 1, SPAN 2 SIMILAR)

NOTE: FOR COLUMN HEIGHTS, SEE SHEET 5

*SIDEWALK NOT SHOWN

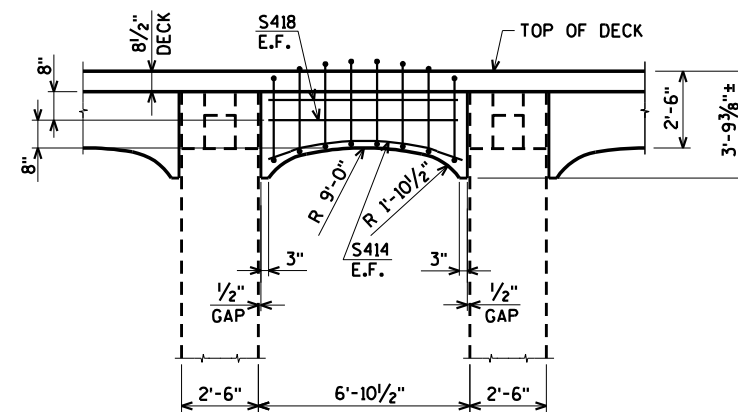
○ DENOTES COLUMN NUMBER

E.F. DENOTES EACH FACE



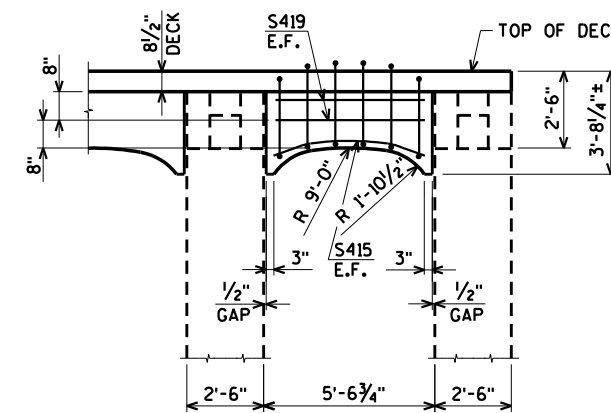
DETAIL A

(LOOKING WEST AT SPAN 1, OTHER LOCATIONS SIMILAR)



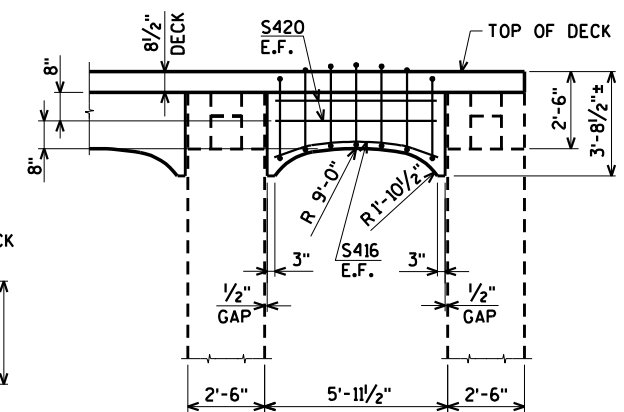
DETAIL B

(LOOKING WEST AT SPAN 1, OTHER LOCATIONS SIMILAR)



DETAIL C

(LOOKING WEST AT SPAN 1, OTHER LOCATIONS SIMILAR)



DETAIL D

(LOOKING WEST AT SPAN 1, OTHER LOCATIONS SIMILAR)

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
STRUCTURE B-18-93			
DRAWN BY CLP		PLANS CK'D. CBM	
EXTERIOR ARCH WALL DETAILS			SHEET 21 OF 40

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LEGEND

- ① NEOPRENE STRIP SEAL (4 - INCH) AND STEEL EXTRUSIONS.
- ② STUDS $\frac{5}{8}$ " ϕ X 6 $\frac{3}{4}$ " LONG AT 6" ALTERNATE CENTERS. WELD TO EXTRUSIONS AND BEND AS SHOWN AFTER WELDING.
- 2A $\frac{1}{2}$ " THICK ANCHOR PLATE WITH $\frac{5}{8}$ " ϕ ROD (OR ALTERNATE STRIP SEAL ANCHOR). WELD ROD TO ANCHOR PLATE, WELD ANCHOR PLATE TO NO. 1 AT 1'-6" CENTERS BETWEEN FABRICATED SUPPORTS NO. 5.
- ③ $\frac{3}{4}$ " ϕ THREADED ROD WITH 2 NUTS AND PLATE WASHERS. GROUT THREADED ROD INTO FIELD DRILLED HOLES. ON ABUTMENT SIDE GROUT THREADED ROD INTO FIELD DRILLED HOLES IN ABUTMENT WALL AS SHOWN.
- ④ $\frac{3}{4}$ " ϕ THREADED ROD WITH NUT. TACK WELD NUT TO NO. 5.
- ⑤ FABRICATE SUPPORT FROM 3" X $\frac{1}{2}$ " BAR AS SHOWN OR EQUIVALENT, ONE PER 6'-0" SPACING PER SIDE. SHOP OR FIELD WELD TO NO. 1. IF FIELD WELDED, COVER WELDED AREAS WITH EPOXY-COATING MATERIAL. PROVIDE $\frac{1}{2}$ " ϕ HOLE FOR NO. 3 AND 1" ϕ HOLE FOR NO. 4.
- ⑦ $\frac{3}{4}$ " ϕ X $\frac{1}{2}$ " STAINLESS STEEL SOCKET FLAT HEAD SCREWS WITH ANTI-SEIZE LUBRICANT. PLACE IN COUNTERSUNK HOLE. RECESS $\frac{1}{16}$ " BELOW PLATE SURFACE.
- ⑧ $\frac{3}{4}$ " ϕ X 4" GALVANIZED HEX HEAD BOLT. BEND 45°.
- ⑨ $\frac{3}{4}$ " ϕ X 2 $\frac{1}{4}$ " GALVANIZED THREADED COUPLING.
- ⑩ 1" X 5" SLOTTED COUNTERSUNK HOLE FOR NO. 7. PLACE SLOT PARALLEL TO DIRECTION OF MOVEMENT.
- ⑪ SIDEWALK COVER PLATE $\frac{3}{4}$ " X 2'-0" WIDE X LIMITS SHOWN WITH HOLES FOR NO. 7. BEND DOWN FACE OF SIDEWALK. GALVANIZE PLATE AFTER SLIP-RESISTANT SURFACE IS APPLIED.

NOTES

ONE FIELD SPLICE PERMITTED IN STEEL EXTRUSIONS, UNLESS MORE ARE REQUIRED FOR STAGED CONSTRUCTION, HANDLING OR GALVANIZING REQUIREMENTS. IF USED, DETAILS SHALL BE SUBMITTED FOR APPROVAL. NO SPLICING PERMITTED IN NEOPRENE STRIP SEAL.

AFTER FABRICATION, BUT BEFORE SHIPMENT, STRAIGHTEN STEEL EXTRUSIONS SUCH THAT THEY SHALL BE FREE FROM WARP, TWIST AND SWEEP.

FABRICATOR SHALL PROVIDE MEANS OF KEEPING GALVANIZED EXTRUSIONS CLEAN AND SMOOTH DURING SHIPMENT AND PRIOR TO APPLYING LUBRICANT ADHESIVE FOR NEOPRENE GLAND INSTALLATION.

SANDBLAST PLATES, SUPPORTS AND EXTRUSIONS AFTER FABRICATION IN ACCORDANCE WITH SSPC SP. #6 "COMMERCIAL BLAST CLEANING". AFTER BLAST CLEANING, THE PLATES, SUPPORTS AND EXTRUSIONS SHALL BE HOT DIPPED GALVANIZED. SLIP-RESISTANT SURFACE IS APPLIED TO SIDEWALK COVER PLATES BY THE MANUFACTURER AND THEN HOT DIPPED GALVANIZED TO THEIR RECOMMENDATIONS TO MAINTAIN THE INTEGRITY OF THIS SURFACE.

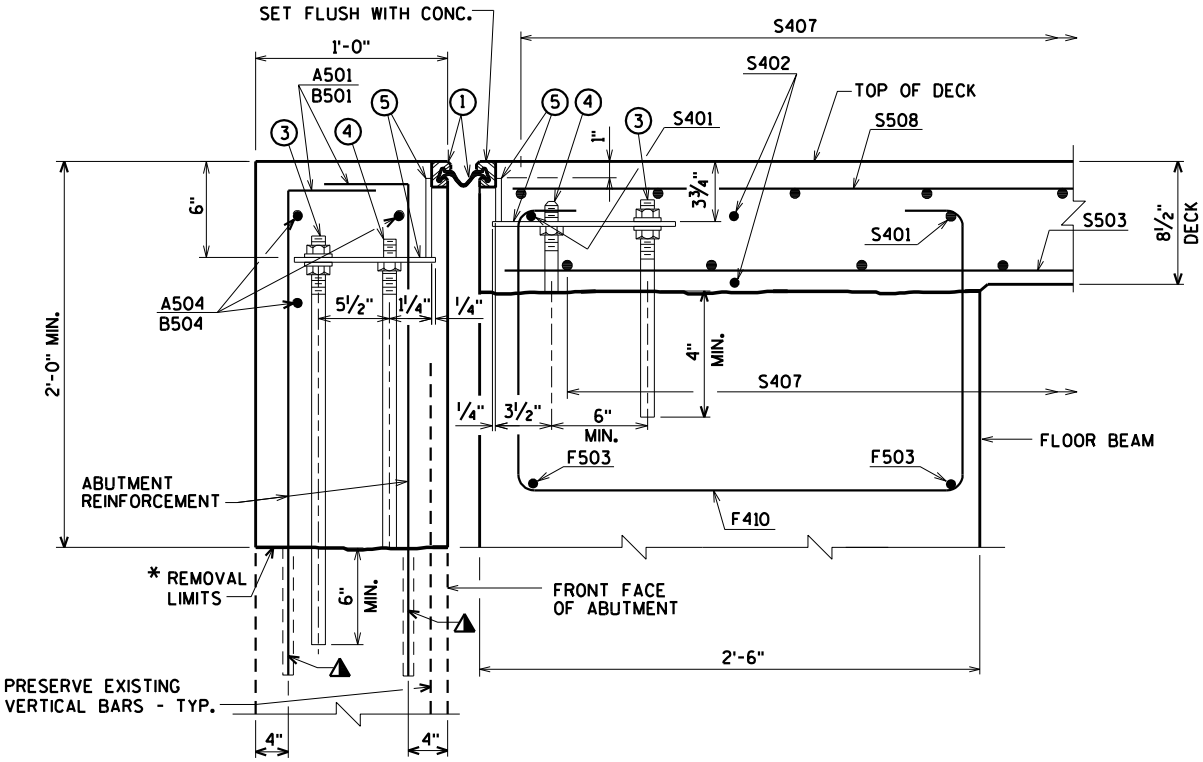
ANCHOR SYSTEM NO. 8 AND NO. 9 SHALL CONFORM TO ASTM A307 AND SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A153 CLASS C AND D.

STRIP SEAL EXPANSION JOINT ASSEMBLY, INCLUDING ANCHOR STUDS AND HARDWARE WILL BE PAID FOR AT THE LUMP SUM PRICE BID FOR "EXPANSION DEVICE B-18-93".

WORK THIS SHEET WITH SHEETS 23 THRU 25

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
STRUCTURE B-18-93			
DRAWN BY		CLP	PLANS CK'D. CBM
STRIP SEAL EXPANSION JOINT DETAILS			SHEET 22 OF 40

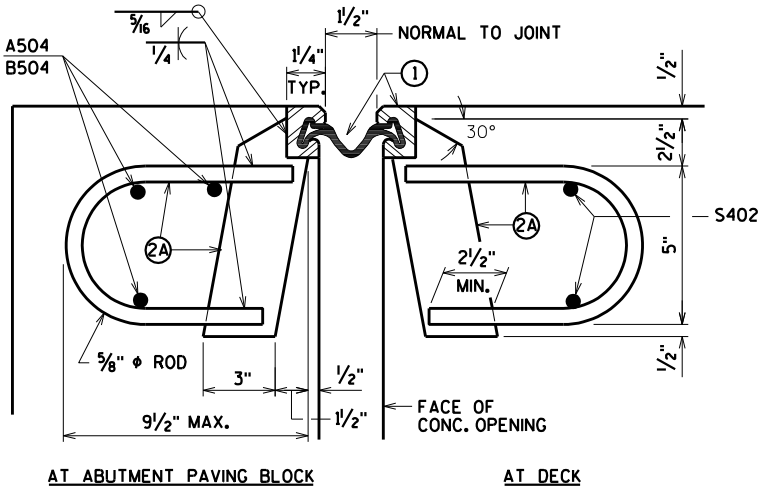
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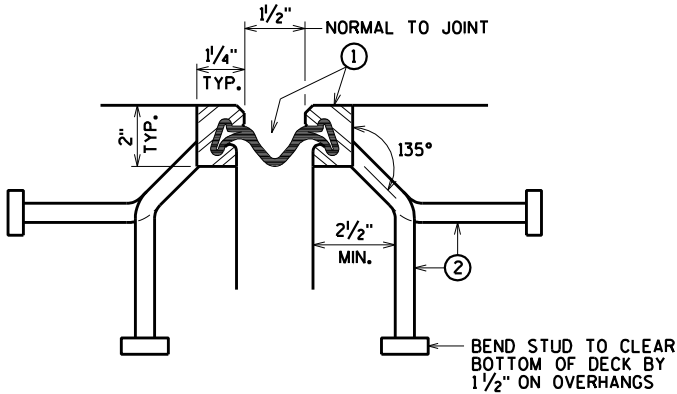
SECTION THRU JOINT AT ABUTMENT

* POUR CONCRETE ABOVE THIS JOINT AFTER SUPERSTRUCTURE IS IN PLACE.

▲ ADHESIVE ANCHORS NO. 5 BAR, EMBED 1'-0 $\frac{1}{2}$ " MIN.



SECTION THRU JOINT
ROADWAY TRAFFIC AREA BETWEEN FABRICATED SUPPORTS.

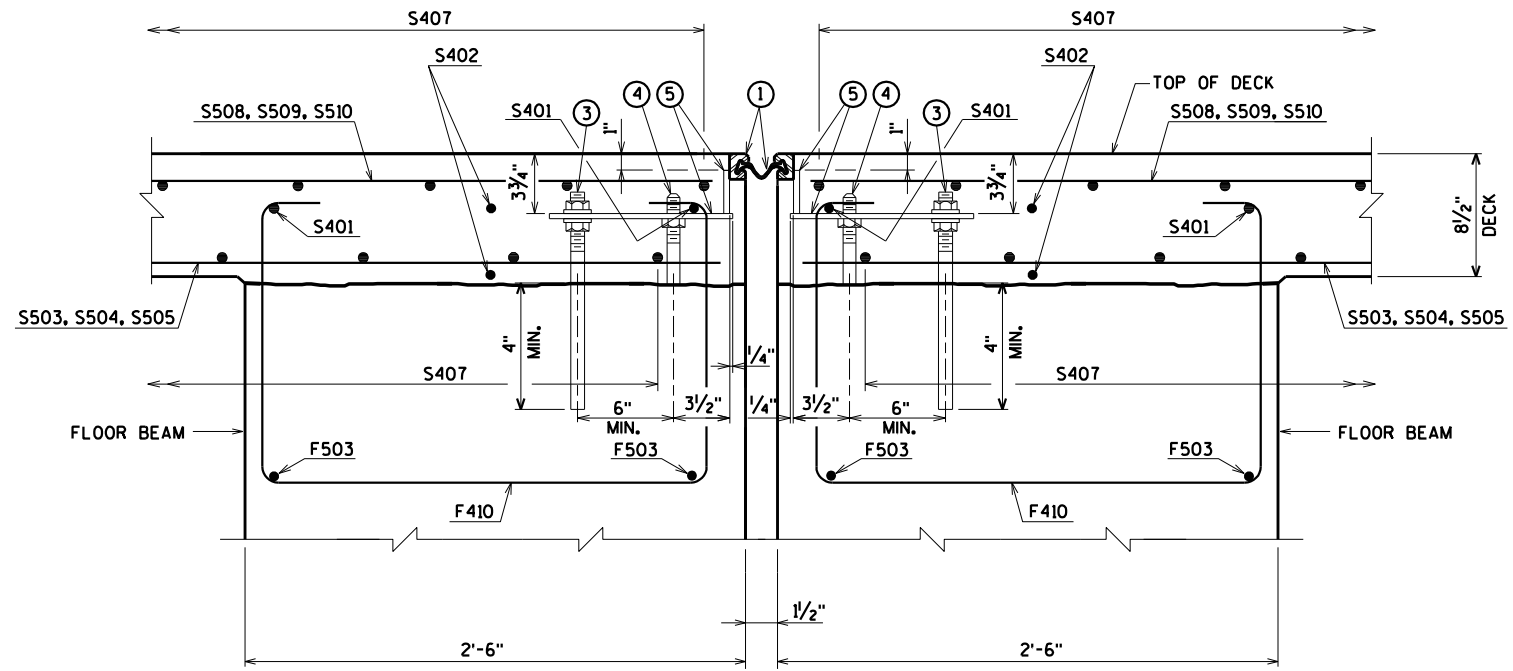


SECTION THRU JOINT
EXTERIOR FABRICATED SUPPORT TO EDGE OF DECK AND AT SIDEWALKS

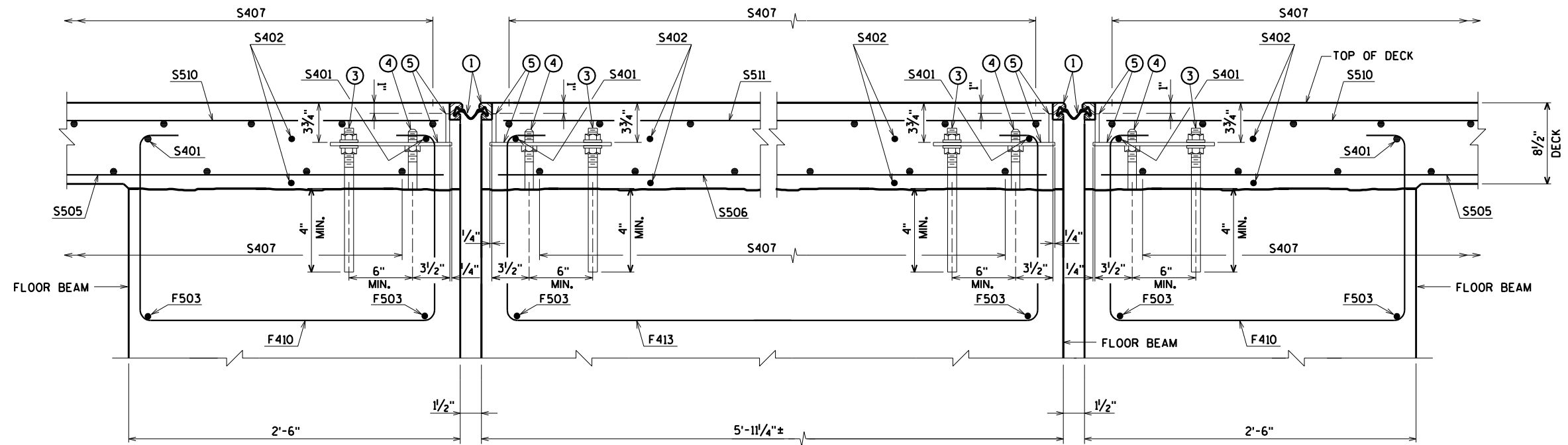
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STATE PROJECT NUMBER

7995-02-48



SECTION THRU JOINT IN SPAN



SECTION THRU JOINTS AT PIER

WORK THIS SHEET WITH SHEETS 22, 24, AND 25

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
STRUCTURE B-18-93			
DRAWN BY	CLP	PLANS CK'D.	CBM
STRIP SEAL EXPANSION JOINT DETAILS			SHEET 23 OF 40

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(JOINT AT ABUTMENT SHOWN, JOINTS IN SPAN AND AT PIER SIMILAR)

9/4/2019
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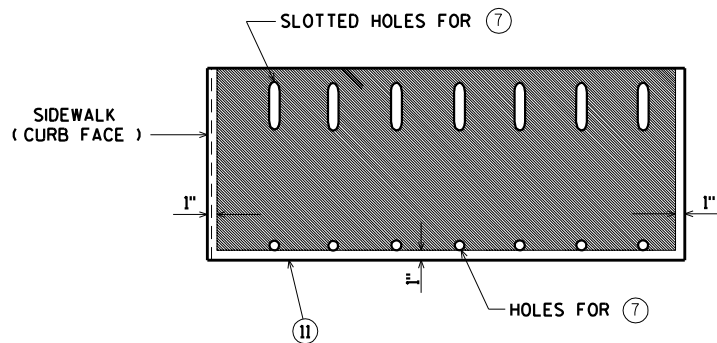
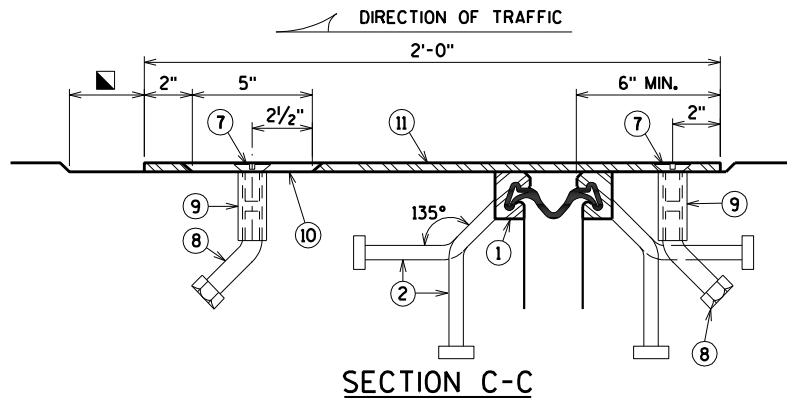
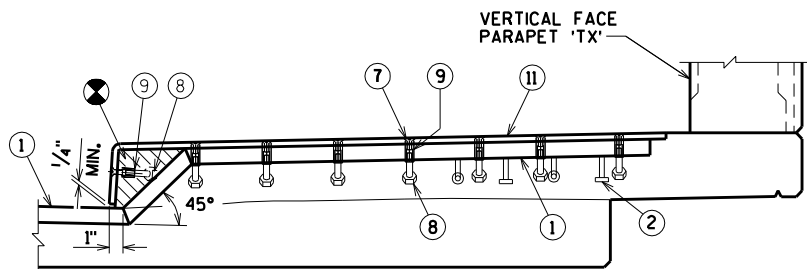
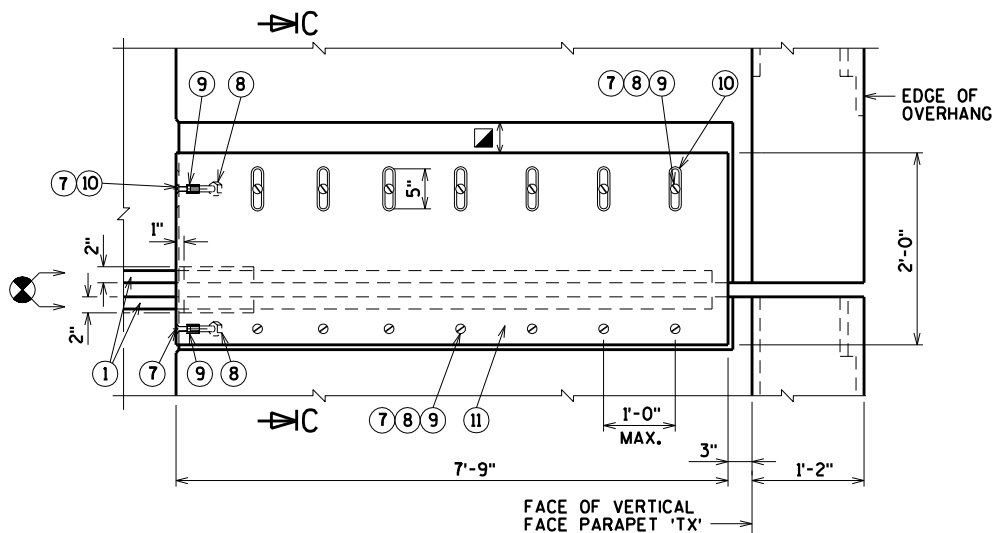
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NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
STRUCTURE B-18-93			
		DRAWN BY	CLP
		PLANS CK'D.	CBM
STRIP SEAL EXPANSION JOINT PLAN		SHEET 24 OF 41	

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PLACE SLIP-RESISTANT SURFACE ON TOP WALKING SURFACE IN SHADED AREA ONLY (NOT ON CURB FACE).

APPROVED SLIP-RESISTANT APPLIED SURFACES FOR STEEL PLATES		
PRODUCT	MANUFACTURER	CONTACT AT
SLIPNOT GRADE 2, STEEL	W. S. MOLNAR COMPANY	1-800-SLIPNOT
ALGRIP, STEEL	ROSS TECHNOLOGY CORP.	1-800-345-8170

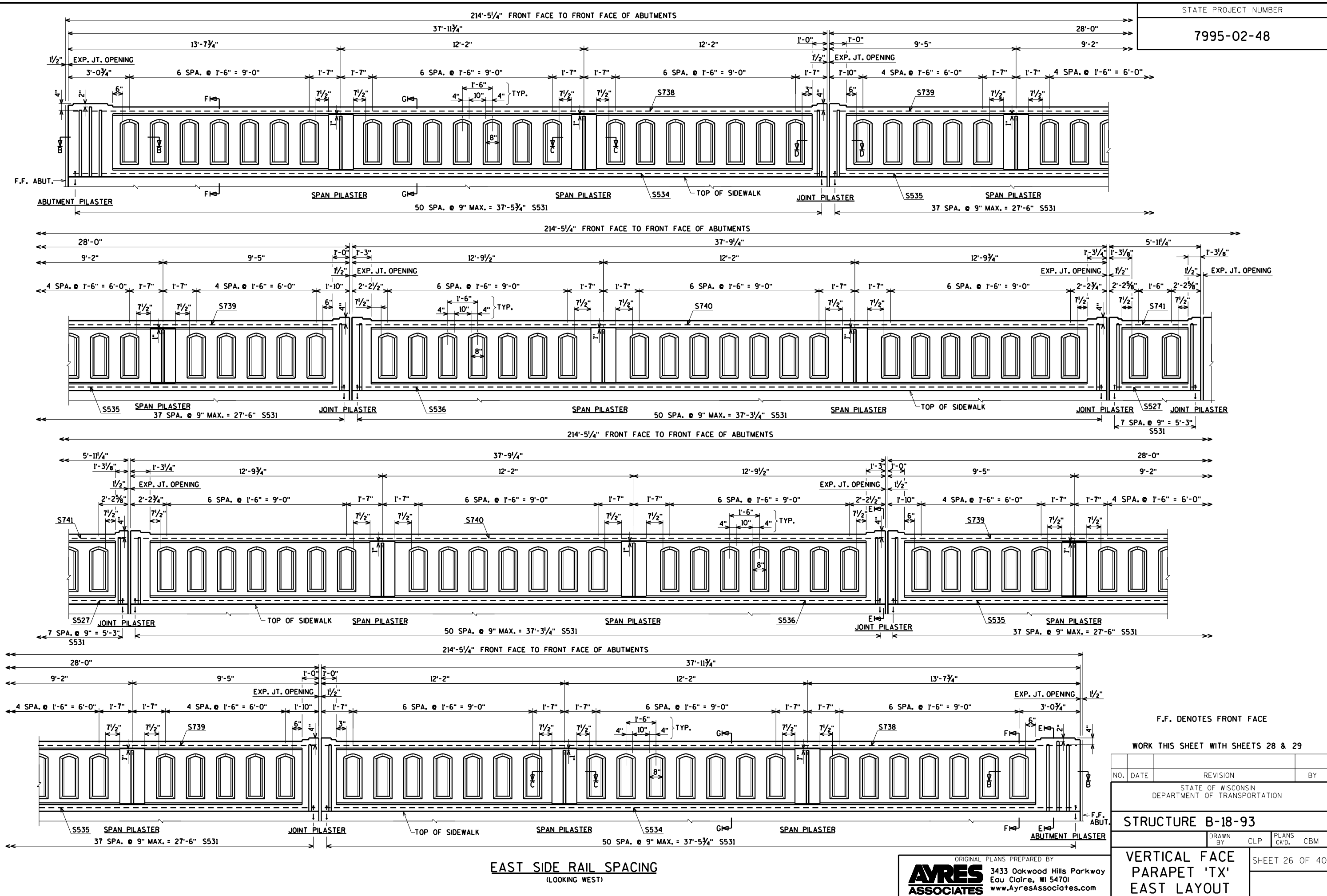
- ⊗ BLOCK OUT CONCRETE 2" EACH SIDE OF JOINT OPENING.
- ▣ JOINT OPENING DIMENSION PLUS 1/2".

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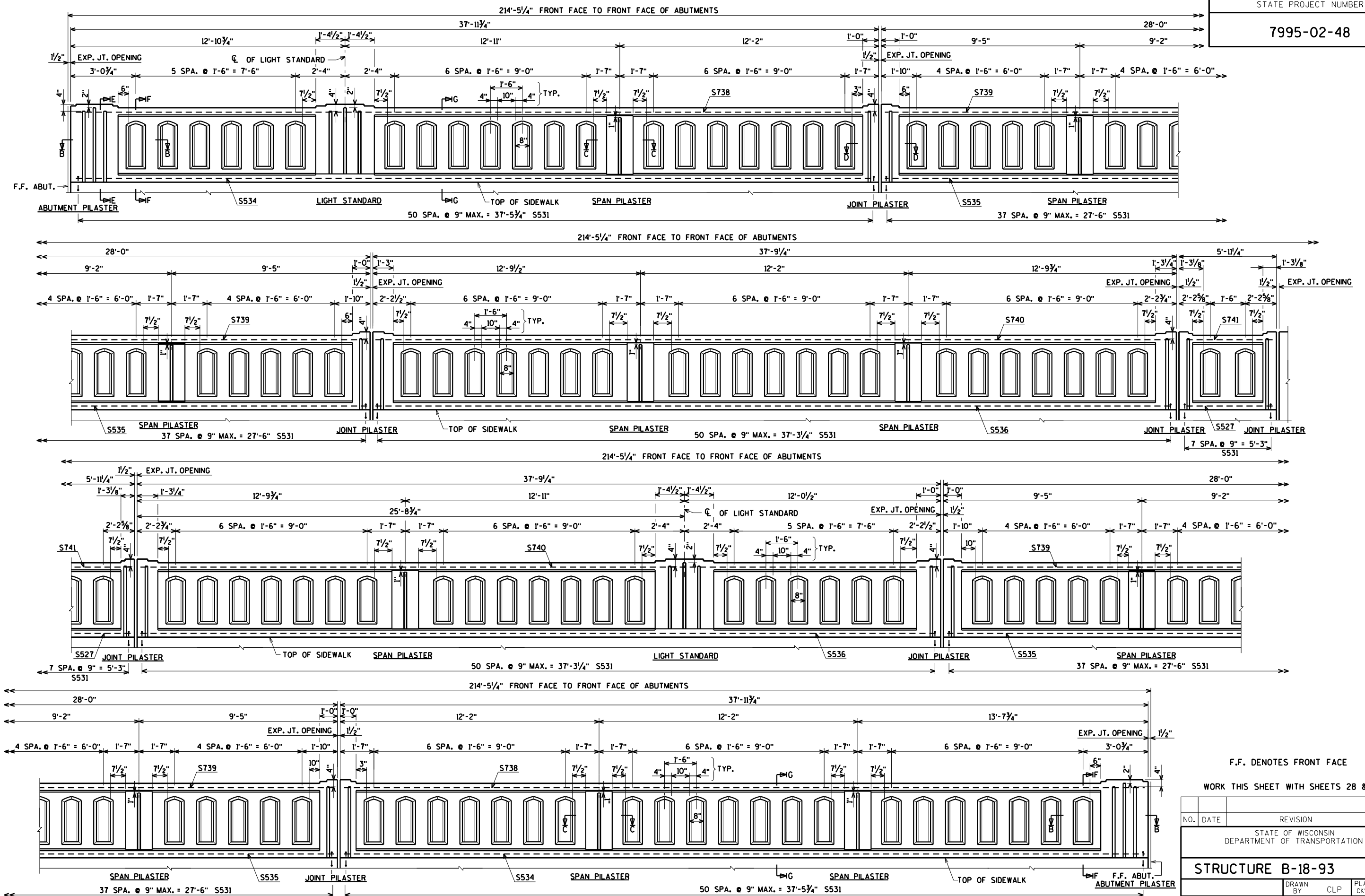
WORK THIS SHEET WITH SHEETS 22 THRU 24

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
STRUCTURE B-18-93			
DRAWN BY		CLP	PLANS CK'D. CBM
SIDEWALK COVER PLATE DETAILS		SHEET 25 OF 40	

9/4/2019
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9/4/2019
PENTABLE:Brequ-shd_util.tbl



STATE PROJECT NUMBER

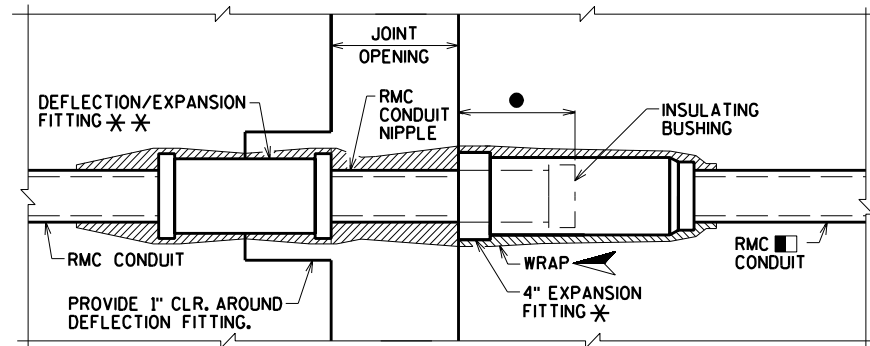
7995-02-48

F.F. DENOTES FRONT FACE

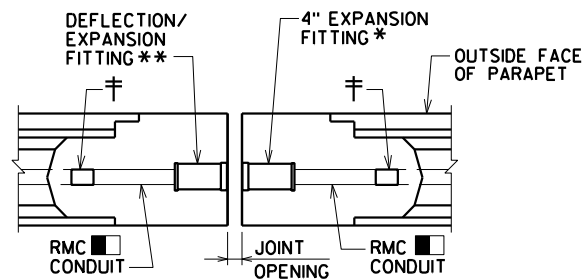
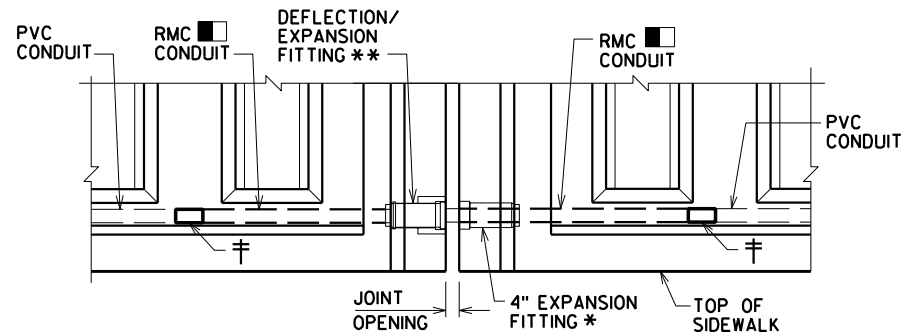
WORK THIS SHEET WITH SHEETS 28 & 29

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
STRUCTURE B-18-93			
DRAWN BY		CLP	PLANS CK'D. CBM
VERTICAL FACE PARAPET 'TX' WEST LAYOUT		SHEET 27 OF 40	



**DEFLECTION/EXPANSION AND 4" EXPANSION FITTING**

THIS DETAIL ACCOMMODATES A MAXIMUM OF 4" TOTAL MOVEMENT AND UP TO 30 DEGREES OF ANGULAR MISALIGNMENT IN ANY DIRECTION. BOND JUMPER NOT SHOWN FOR CLARITY

**PLAN OF PARAPET AT EXP. JOINT****ELEVATION OF PARAPET AT EXP. JOINT****NOTES**

CONDUIT SHALL BE EMBEDDED 2" CLEAR.

USE 2" DIA. RIGID NONMETALLIC CONDUIT (PVC) UNLESS NOTED OTHERWISE.

CONDUIT FITTINGS, CONDUIT BENDS, AND ADAPTER FITTINGS INCIDENTAL TO CONDUIT WORK.

CONDUIT BENDS SHALL CONFORM TO THE NATIONAL ELECTRIC CODE.

PROVIDE JUNCTION BOXES FROM THE APPROVED PRODUCTS LIST.

LEGEND

⊕ NONMETALLIC CONDUIT TO METALLIC CONDUIT ADAPTOR FITTING (UL OR NRTL LISTED FOR ELECTRICAL USE SHALL BE USED)

■ USE 2" DIA. RIGID METALLIC (RMC) CONDUIT AT FITTINGS. PROVIDE RMC FOR 3'-0" MIN. ON EACH SIDE OF JOINT OPENINGS UNLESS NOTED OTHERWISE.

● POSITION MOVABLE END OF CONDUIT INSIDE EXPANSION FITTING, SUCH THAT IT WILL HAVE THE SAME ALLOWANCE FOR MOVEMENT (EXPANSION/CONTRACTION) AS THE EXPANSION DEVICE SET IN PLACE IN THE DECK BELOW IT. TAKE CARE TO INSTALL EXPANSION FITTING AND CONDUIT EXACTLY PARALLEL TO BRIDGE MOVEMENT.

◀ SPONGE RUBBER WRAP TO BE AASHTO M153, TYPE 1 OR EQUIVALENT - 1/4" MINIMUM THICKNESS. PROVIDE WRAP FOR THE ENTIRE LENGTH OF THE FITTING OR AS SHOWN. SPONGE RUBBER WRAP INCIDENTAL TO "CONDUIT RIGID METALLIC 2-INCH"

* EXPANSION FITTING REQUIREMENTS (IF USED):
● 4" TOTAL CONDUIT MOVEMENT WITH BONDING JUMPER

** DEFLECTION/EXPANSION FITTING REQUIREMENTS (IF USED):
● UP TO 3/4" CONDUIT CONTRACTION OR EXPANSION AND UP TO 30 DEGREES OF ANGULAR MISALIGNMENT IN ANY DIRECTION WITH BONDING JUMPER

WORK THIS SHEET WITH SHEETS 26 THRU 28

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
STRUCTURE B-18-93			
DRAWN BY		CLP	PLANS CK'D. CBM
CONDUIT DETAILS			SHEET 29 OF 40

9/4/2019
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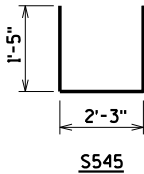
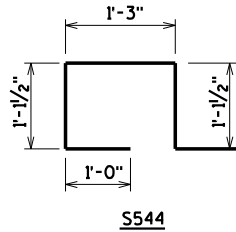
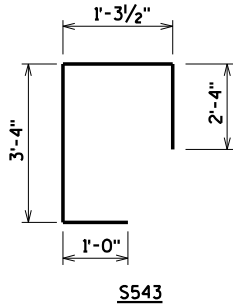
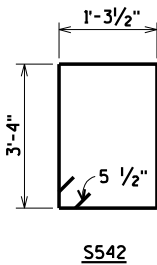
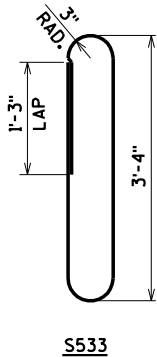
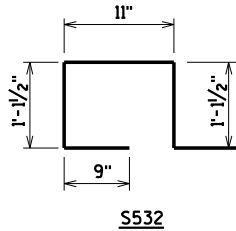
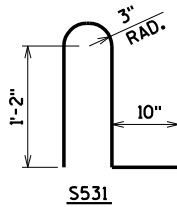
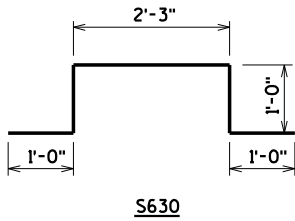
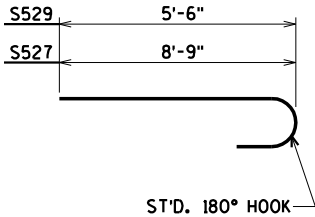
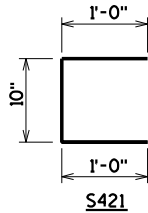
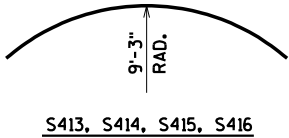
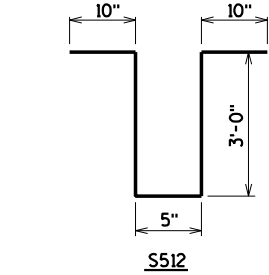
STATE PROJECT NUMBER

7995-02-48

BILL OF BARS

BAR NO.	COATED BAR	NO. REQ'D.	LENGTH	BENT BAR	BUNDLED	BAR SERIES	91,570* COATED
							LOCATION
S401	X	56	28-10				TRANS. @ JOINTS
S402	X	140	6-0				TRANS. @ JOINTS BTWN. FABRICATED SUPPORTS
S503	X	170	37-6				DECK LONG. BOT. @ ABUT. ENDS
S504	X	170	27-6				DECK LONG. BOT. IN SPAN
S505	X	170	37-3				DECK LONG. BOT. @ PIER ENDS
S506	X	85	5-5				DECK LONG. BOT. OVER PIER
S407	X	1,270	28-10				DECK TRANS. TOP & BOT.
S508	X	168	37-6				DECK LONG. TOP @ ABUT. ENDS
S509	X	168	27-6				DECK LONG. TOP IN SPAN
S510	X	168	37-3				DECK LONG. TOP @ PIER ENDS
S511	X	84	5-5				DECK LONG. TOP OVER PIER
S512	X	232	7-7	X			EXTERIOR ARCH WALLS VERT.
S413	X	8	5-9	X			EXTERIOR ARCH WALL DETAIL A HORIZ. BOT.
S414	X	32	6-6	X			EXTERIOR ARCH WALL DETAIL B HORIZ. BOT.
S415	X	16	5-2	X			EXTERIOR ARCH WALL DETAIL C HORIZ. BOT.
S416	X	8	5-7	X			EXTERIOR ARCH WALL DETAIL D HORIZ. BOT.
S417	X	16	5-9				EXTERIOR ARCH WALL DETAIL A HORIZ.
S418	X	64	6-6				EXTERIOR ARCH WALL DETAIL B HORIZ.
S419	X	32	5-2				EXTERIOR ARCH WALL DETAIL C HORIZ.
S420	X	16	5-7				EXTERIOR ARCH WALL DETAIL D HORIZ.
S421	X	1,704	2-8	X			DECK @ SDWK. VERT.
S422	X	292	2-10				SDWK. TRANS. BOT. OVERHANG
S423	X	60	37-6				SDWK. LONG. @ ABUT. ENDS
S424	X	60	27-6				SDWK. LONG. IN SPAN
S425	X	60	37-3				SDWK. LONG. @ PIER ENDS
S426	X	30	5-5				SDWK. LONG. OVER PIER
S527	X	852	9-4	X			SDWK. TRANS. TOP
S528	X	10	5-6				SDWK @ LIGHT STANDARD BOT. TRANS.
S529	X	10	6-1	X			SDWK @ LIGHT STANDARD TOP TRANS.
S630	X	4	5-7	X			SDWK @ LIGHT STANDARD
S531	X	576	3-4	X			PARAPET VERT. @ SDWK.
S532	X	4	4-3	X			PARAPET VERT. @ LIGHT STANDARD
S533	X	546	8-6	X			PARAPET VERT.
S534	X	8	37-7				PARAPET HORIZ. BOT. @ ABUT. ENDS
S535	X	8	27-8				PARAPET HORIZ. BOT. IN SPAN
S536	X	8	37-5				PARAPET HORIZ. BOT. @ PIER ENDS
S537	X	4	5-7				PARAPET HORIZ. BOT. OVER PIER
S738	X	8	37-7				PARAPET HORIZ. TOP @ ABUT. ENDS
S739	X	8	27-8				PARAPET HORIZ. TOP IN SPAN
S740	X	8	37-5				PARAPET HORIZ. TOP @ PIER ENDS
S741	X	4	5-7				PARAPET HORIZ. TOP OVER PIER
S542	X	4	9-6	X			PARAPET VERT. @ LIGHT STANDARD
S543	X	4	7-7	X			PARAPET VERT. @ LIGHT STANDARD
S544	X	4	4-9	X			PARAPET VERT. @ LIGHT STANDARD
S545	X	14	4-9	X			PARAPET HOIRZ. @ LIGHT STANDARD

BENDING DIMENSIONS ARE OUT TO OUT OF BARS.



8

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
STRUCTURE B-18-93			
DRAWN BY		CLP	PLANS CK'D. CBM
SUPERSTRUCTURE BILL OF BARS			SHEET 30 OF 40

ORIGINAL PLANS PREPARED BY
AYRES ASSOCIATES
3433 Oakwood Hills Parkway
Eau Claire, WI 54701
www.AyresAssociates.com



AVRES
ASSOCIATES

3433 Oakwood Hills Parkway
Eau Claire, WI 54701
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NO.	DATE	REVISION	BY
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STRUCTURE B-18-93

DRAWN BY	CLP	PLANS CK'D	CBM
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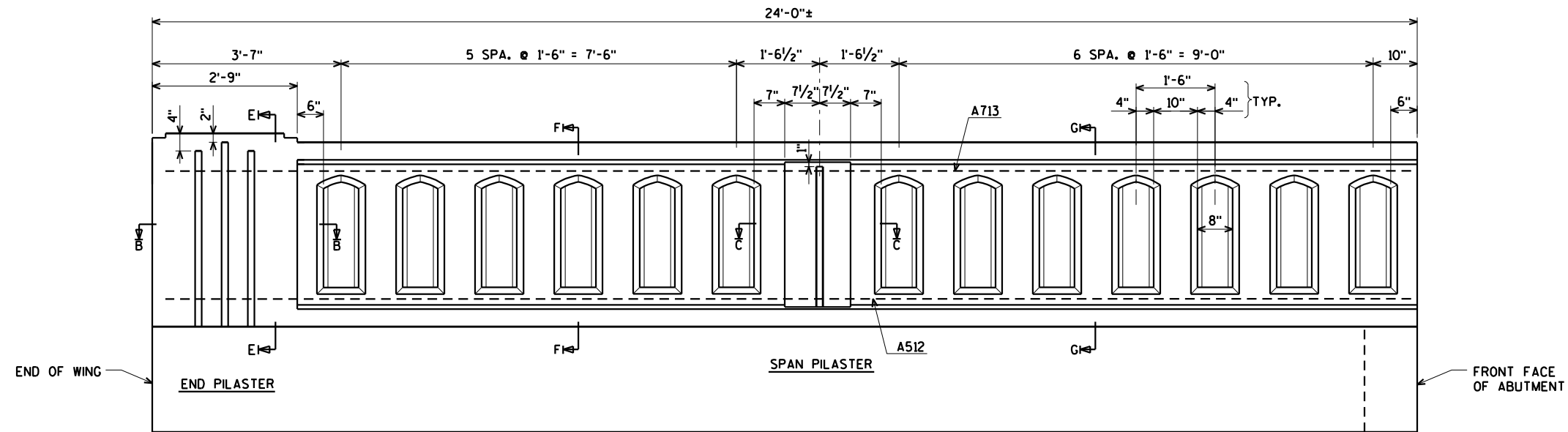
SOUTH
ABUTMENT
PLAN

SHEET 31 OF 40

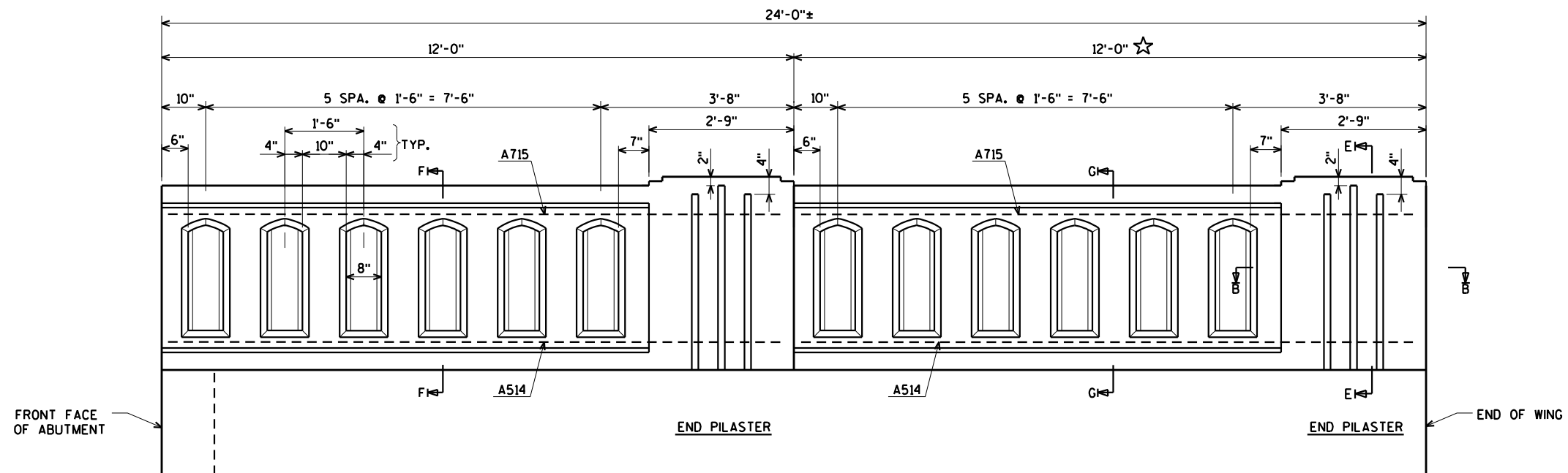
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U:\42-1123.00 - City of Eau Claire, Dewey Street Bridge Rehab\Structures\Final Structure\421123 S.abut.dgn

STATE PROJECT NUMBER

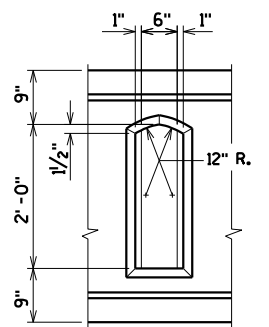
7995-02-48



ELEVATION OF PARAPET ON WING ①
LOOKING WEST



ELEVATION OF PARAPET ON WING ②
(LOOKING EAST)



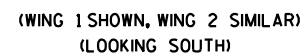
WINDOW DETAILS

☆ END OF RAILING MAY BE REMOVED IN THE FUTURE
TO CONNECT A BIKE TRAIL ALONG THE SOUTH BANK
OF THE EAU CLAIRE RIVER

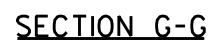
WORK THIS SHEET WITH SHEETS 31 AND 33

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
STRUCTURE B-18-93			
DRAWN BY		CLP	PLANS CK'D. CBM
VERTICAL FACE PARAPET 'TX' ON SOUTH WINGS		SHEET 32 OF 40	

ORIGINAL PLANS PREPARED BY
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Eau Claire, WI 54701
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☐ 18" RUBBERIZED MEMBRANE WATERPROOFING



ORIGINAL PLANS PREPARED BY

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Eau Claire, WI 54701
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▲ ADHESIVE ANCHORS NO. 5 BAR,
EMBED 1'-0 1/2" MIN.



SHEET 33 OF 40



SECTION B

WORK THIS SHEET WITH SHEETS 35 THRU 39

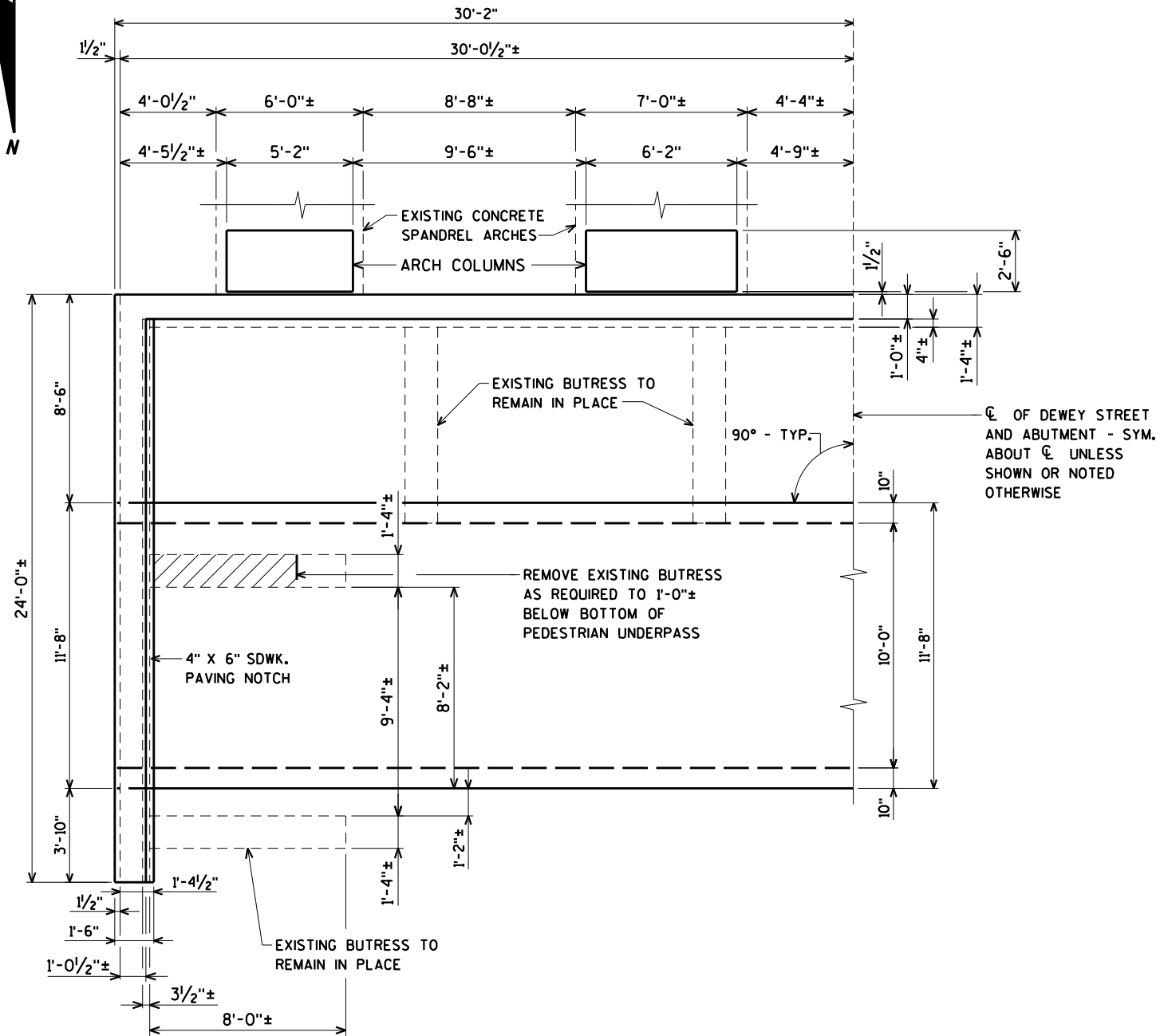
NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
STRUCTURE B-18-93			
DRAWN BY		CLP	PLANS CK'D. CBM
NORTH ABUTMENT PLAN		SHEET 34 OF 40	

\$PRNAME\$
I:\42\42-1123.00 - City of Eau Claire, Dewey Street Bridge Rehab\Structures\Final\Structures\421123 N abut.dgn

STATE PROJECT NUMBER

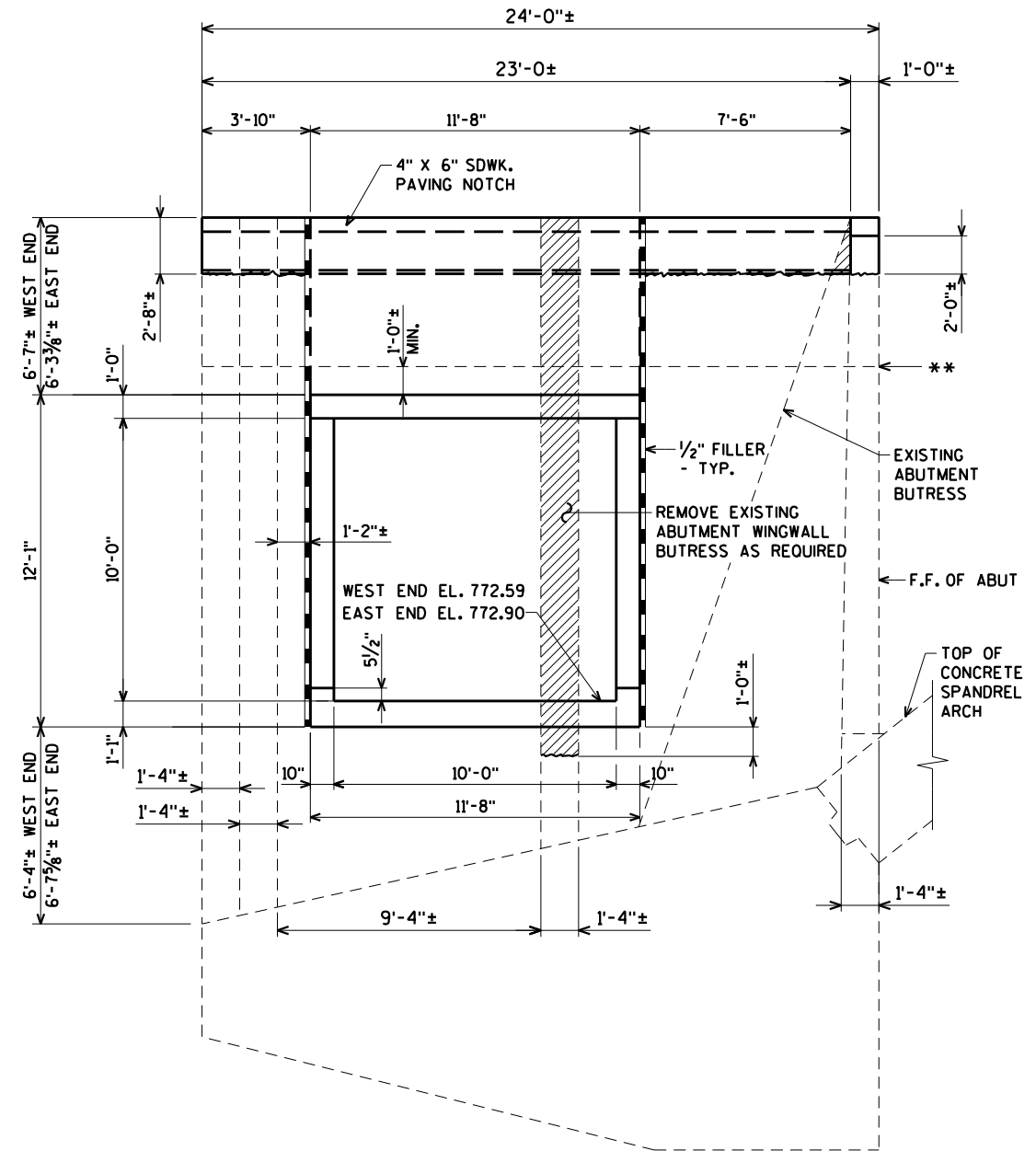
7995-02-48

** BOTTOM OF AT&T WISCONSIN TELEPHONE CONDUITS
TO BE REMOVED PRIOR TO CONSTRUCTION, TEMPORARILY
SUPPORTED AERIALY TO THE WEST, AND THE NEW DUCT
PACKAGE REATTACHED TO THE BRIDGE DURING CONSTRUCTION.



PARTIAL PLAN OF PEDESTRIAN UNDERPASS AT NORTH ABUTMENT

(WING 4 SHOWN, WING 3 SIMILAR)



SECTION THRU PEDESTRIAN UNDERPASS

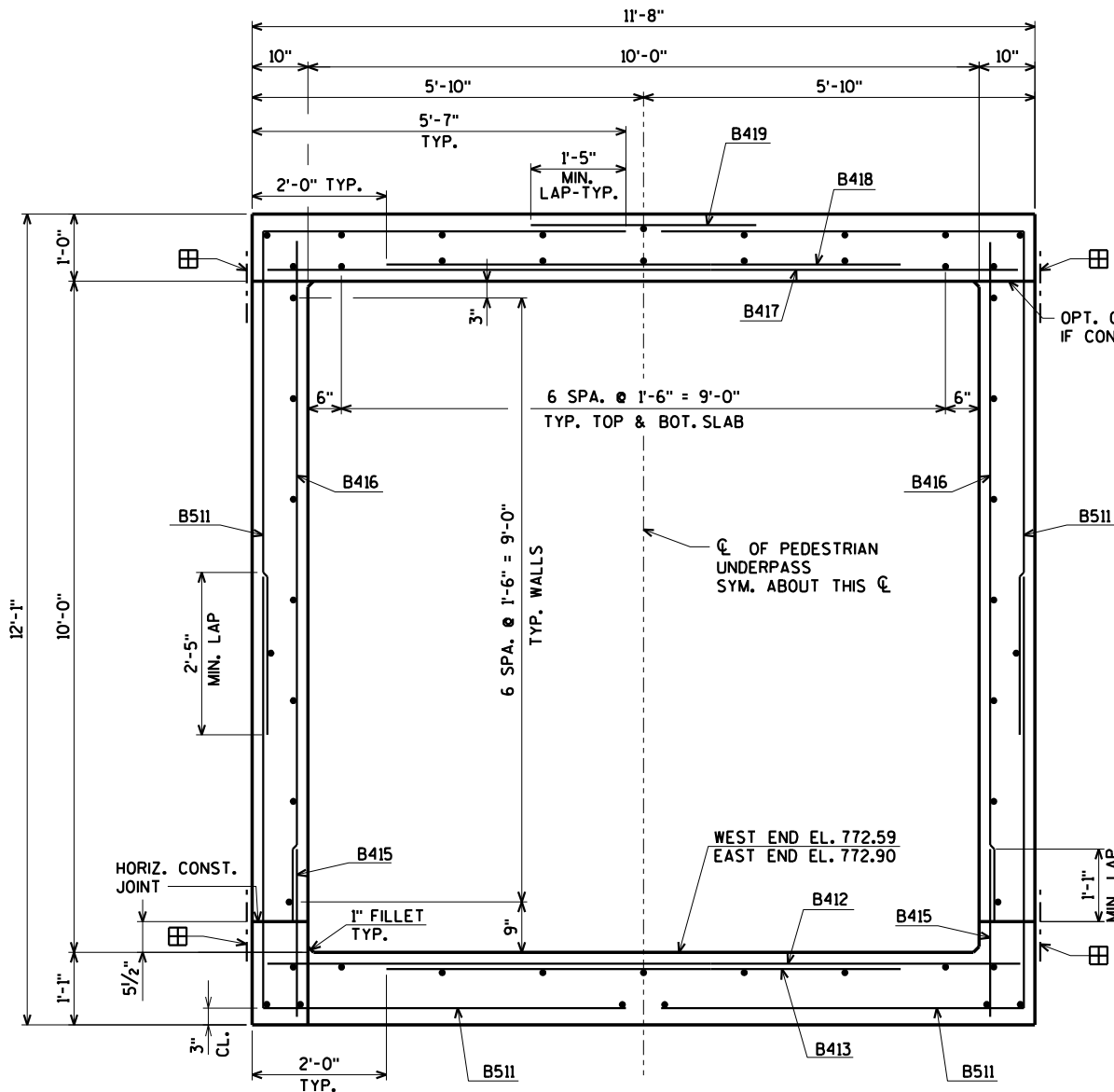
(LOOKING EAST AT WING 4)

WORK THIS SHEET WITH SHEETS 34 AND SHEETS 36 THRU 39

F.F. DENOTES FRONT FACE.

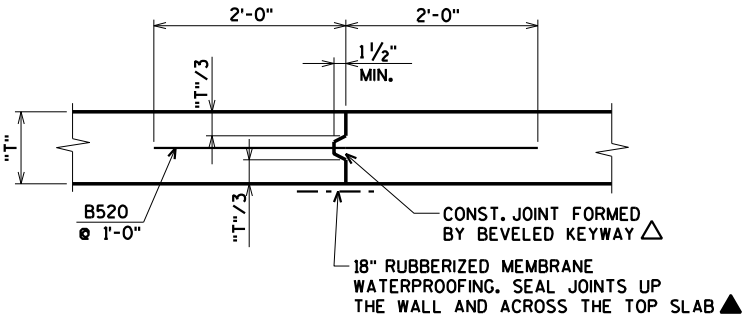
NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
STRUCTURE B-18-93			
DRAWN BY		CLP	PLANS CK'D. CBM
NORTH ABUTMENT PEDESTRIAN UNDERPASS LAYOUT			SHEET 35 OF 40

ORIGINAL PLANS PREPARED BY
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Eau Claire, WI 54701
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ALL LONGITUDINAL BARS IN BOX ARE B414 UNLESS SHOWN OTHERWISE

OPT. CONST. JOINT OMIT 1" FILLET IF CONST. JOINT IS USED - TYP.



VERT. CONST. JOINT
(ALL WALLS AND SLABS)

△ IN LIEU OF CONSTRUCTION JOINTS IN THE BOTTOM SLAB, THE CONTRACTOR MAY USE 2" DEEP SAW CUTS WITHIN 12 HOURS AFTER POURING, B520 BARS 4'-0" LONG AT 1'-0" CENTERS REQUIRED.

▲ USE "SHEET MEMBRANE WATERPROOFING FOR TOP SLAB B-18-93". SHEET MEMBRANE WATERPROOFING REQUIRED UP WALLS AND ACROSS TOP SLAB FOR ENTIRE CULVERT LENGTH. EXTEND 6" BELOW THE TOP OF BOTTOM SLAB.

⊞ 18" RUBBERIZED MEMBRANE WATERPROOFING

TYPICAL SECTION THRU PEDESTRIAN UNDERPASS

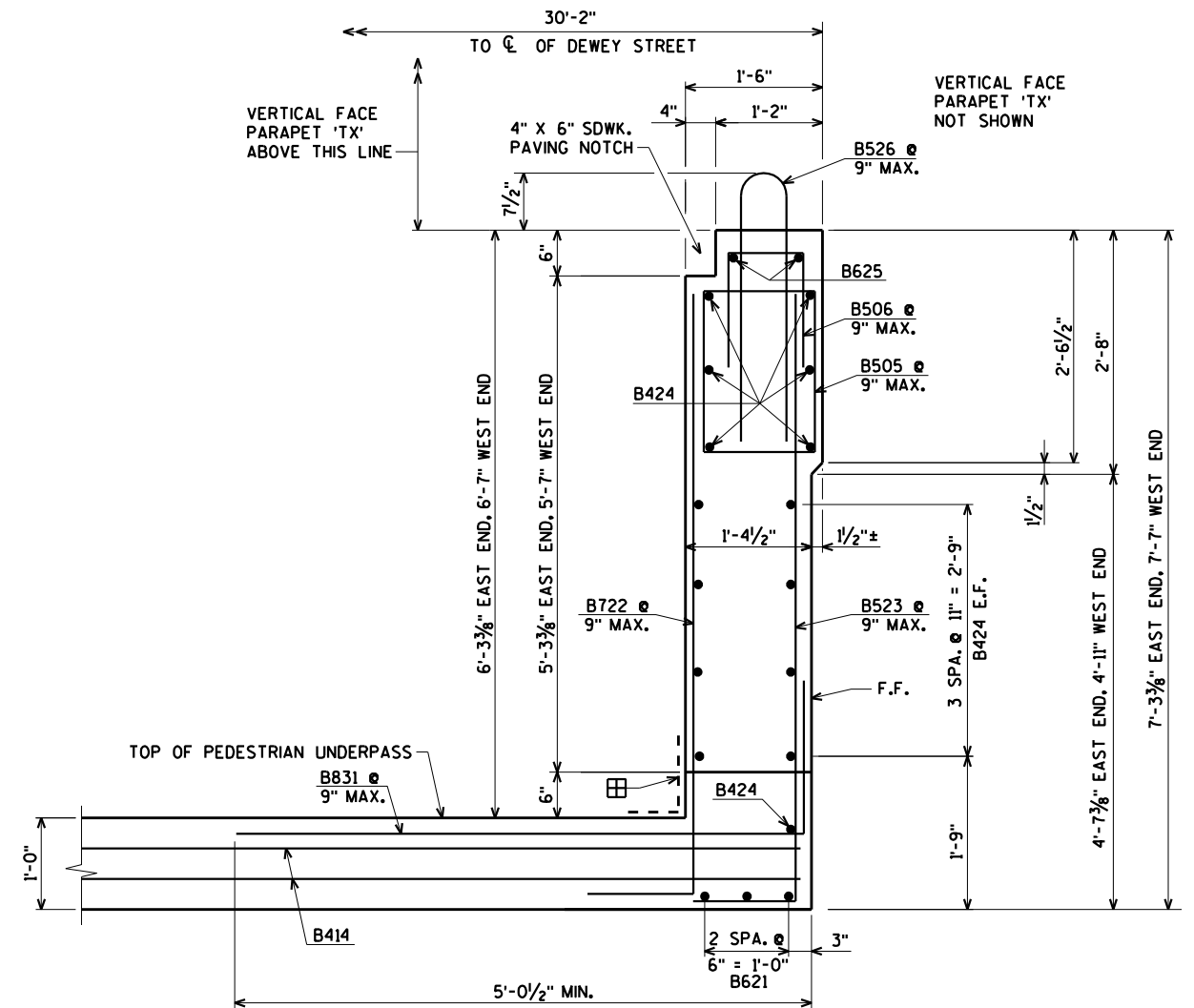
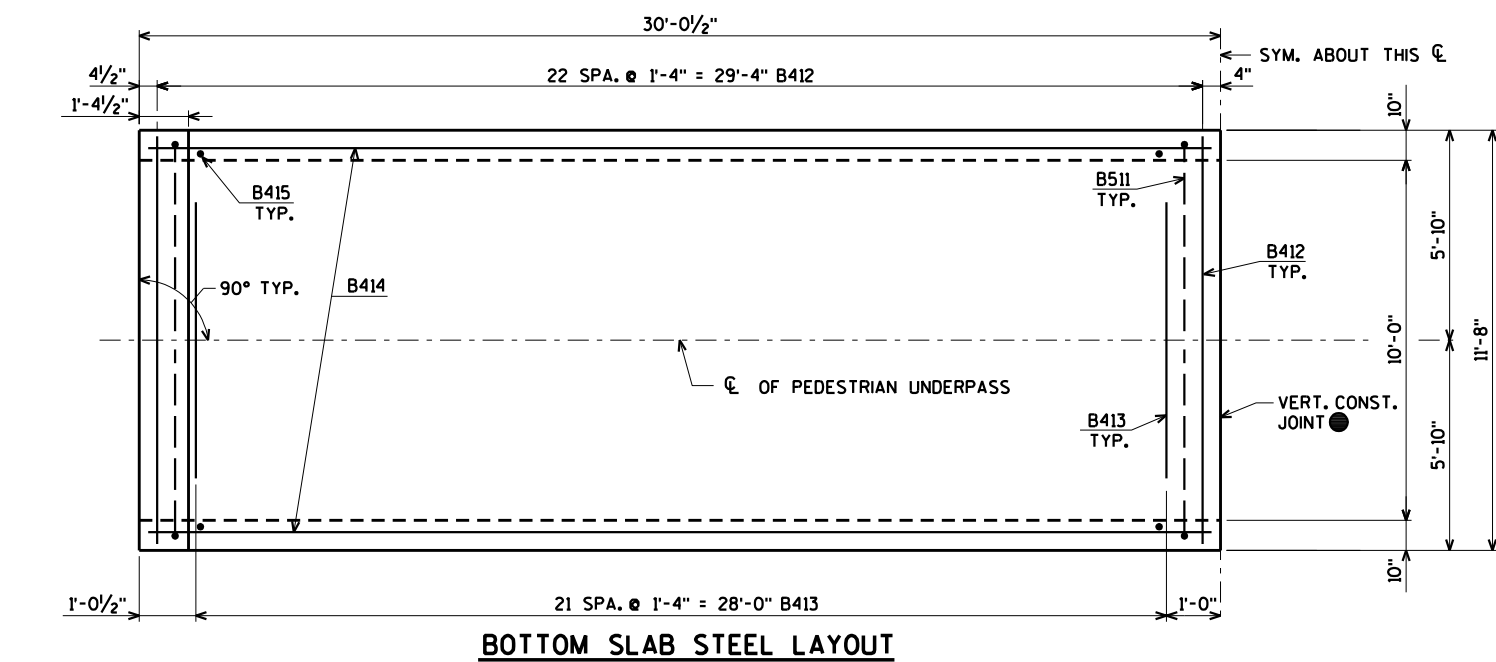
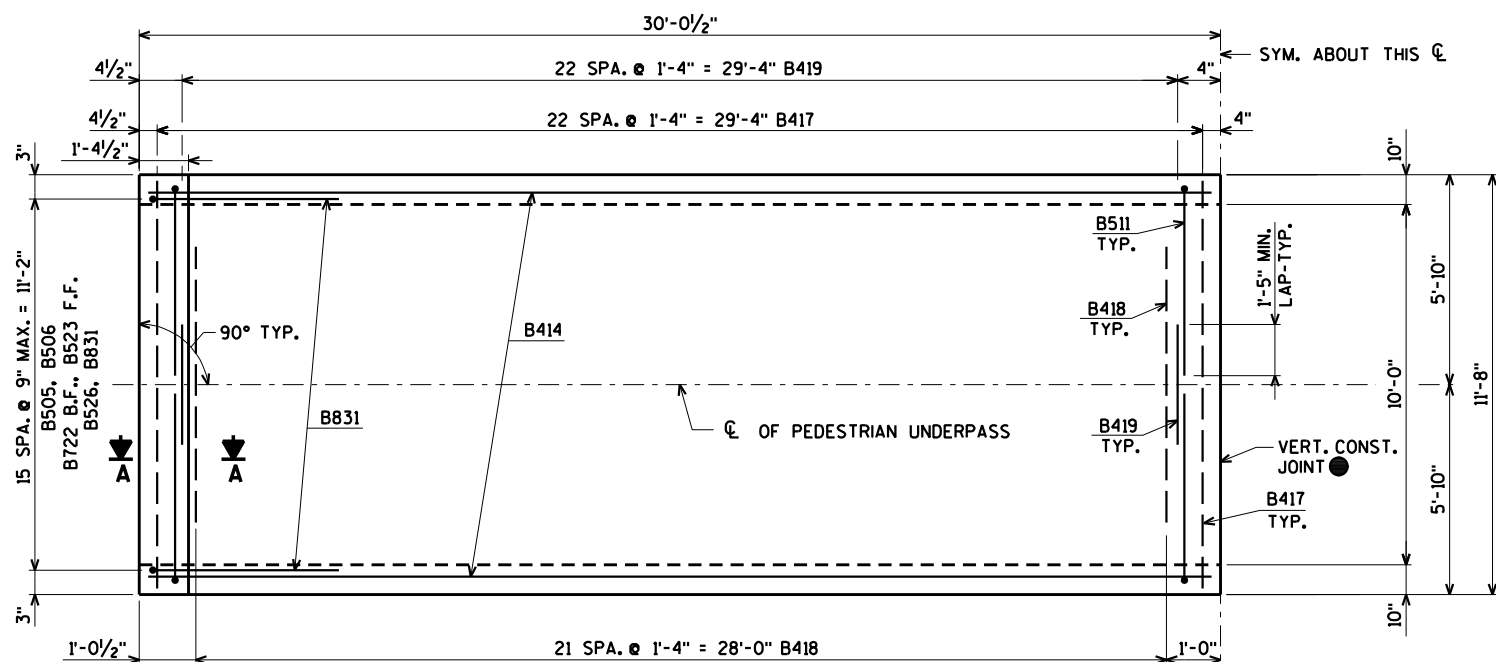
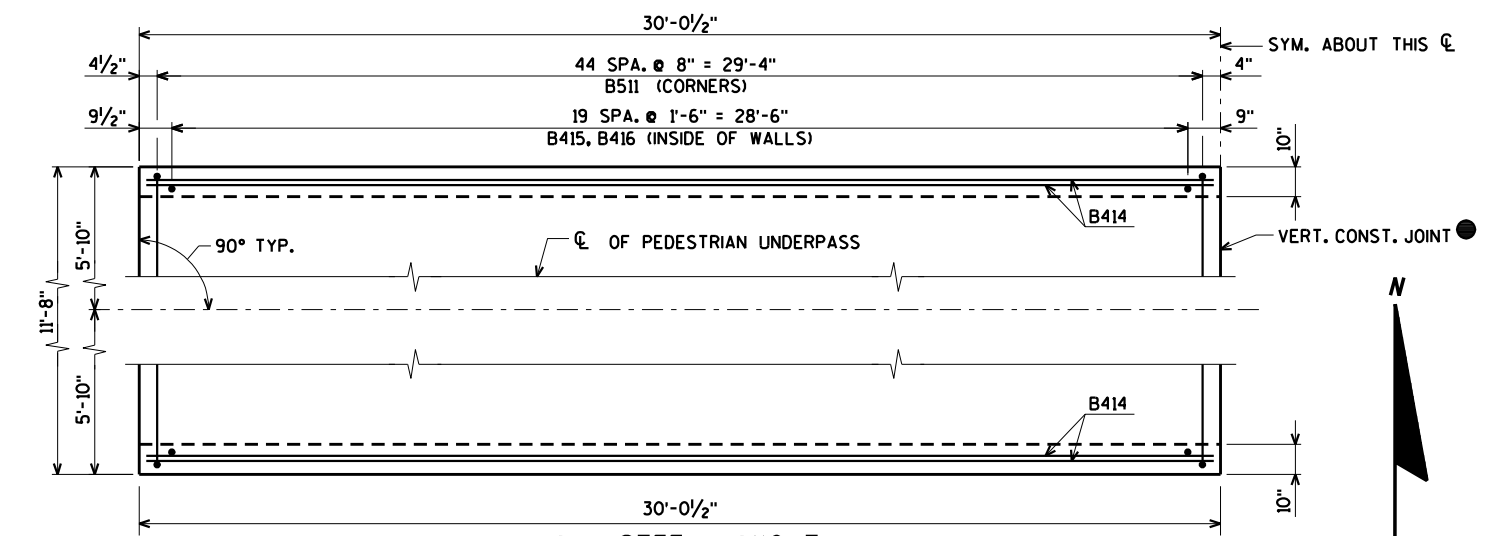
WORK THIS SHEET WITH SHEETS 34, 35 AND SHEETS 37 THRU 39

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
STRUCTURE B-18-93			
DRAWN BY	CLP	PLANS CK'D.	CBM
PEDESTRIAN UNDERPASS TYPICAL SECTION			SHEET 36 OF 40

ORIGINAL PLANS PREPARED BY
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Eau Claire, WI 54701
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9/4/2019
PENTABLE:BRequ.shd_util.tbl

8



18" RUBBERIZED MEMBRANE WATERPROOFING

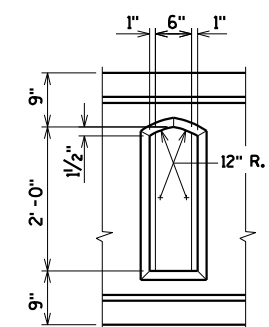
18" MIN. WIDTH RUBBERIZED MEMBRANE WATERPROOFING UP WALLS AND ACROSS TOP SLAB.

E.F. DENOTES EACH FACE
F.F. DENOTES FRONT FACE
B.F. DENOTES BACK FACE

WORK THIS SHEET WITH SHEETS 34 THRU 36 AND SHEETS 38 AND 39

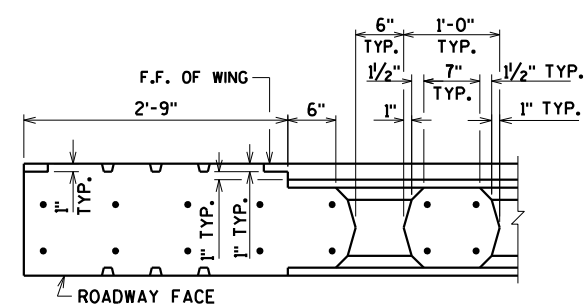
NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
STRUCTURE B-18-93			
DRAWN BY	CLP	PLANS CK'D.	CBM
PEDESTRIAN UNDERPASS STEEL LAYOUTS			SHEET 37 OF 40

ORIGINAL PLANS PREPARED BY
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Eau Claire, WI 54701
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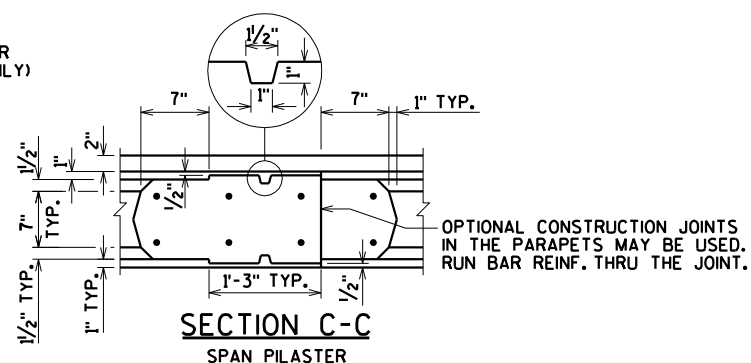


WINDOW DETAILS

LOOKING EAST AT WING ③. WING ④ SIMILAR



SECTION B-B
END PILASTER



SECTION C-C
SPAN PILASTER

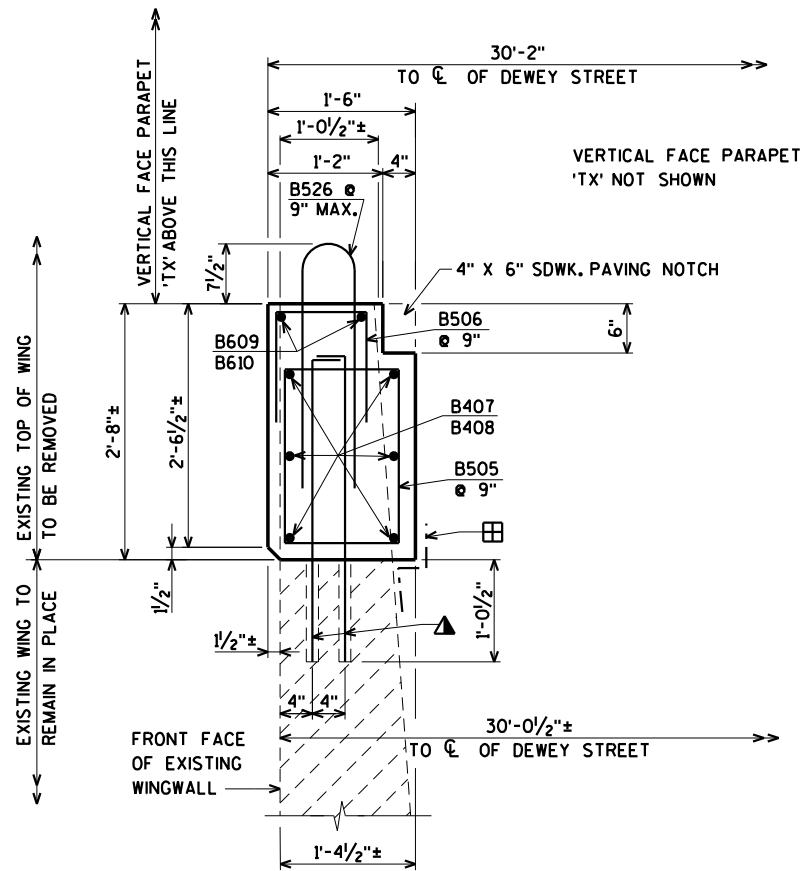
F.F. DENOTES FRONT FACE

WORK THIS SHEET WITH SHEETS 34 THRU 37 AND SHEET 39

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
STRUCTURE B-18-93			
	DRAWN BY	CLP	PLANS CK'D. CBM
VERTICAL FACE PARAPET 'TX' ON NORTH WINGS		SHEET 38 OF 4	

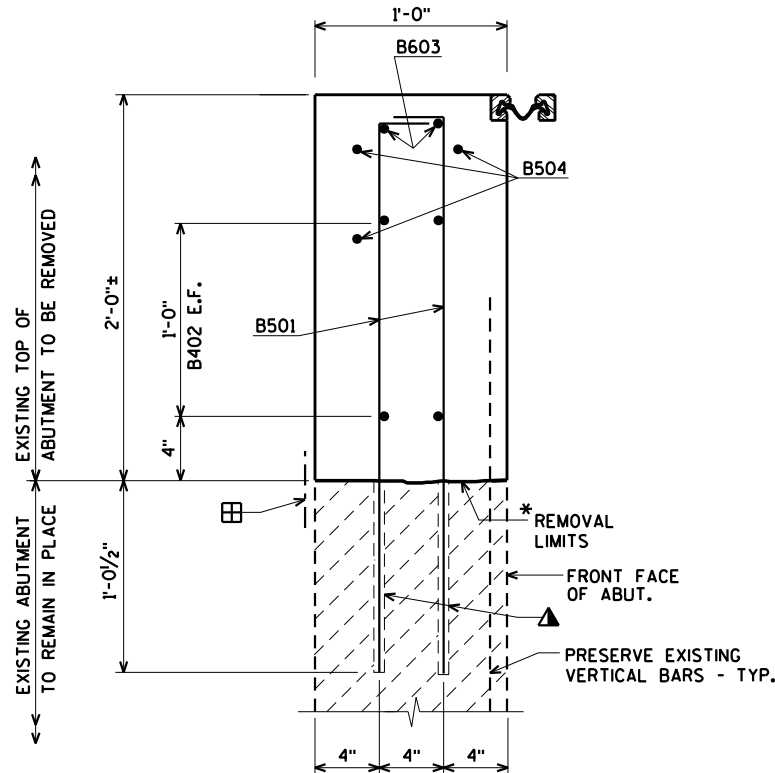
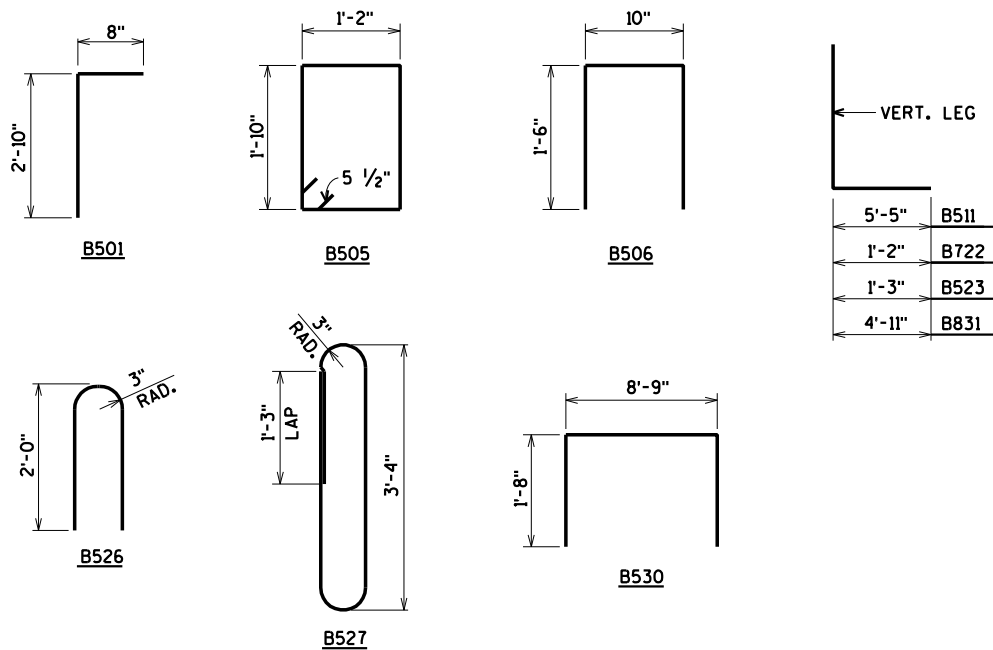
\$PRNAME\$
U:\42-1123.00 - City of Eau Claire, Dewey Street Bridge Rehab\Structures\Final Structure\421123 N abut.dgn

8



TYPICAL SECTION THRU WINGWALL
(EXCEPT OVER PEDESTRIAN UNDERPASS)

18" RUBBERIZED MEMBRANE WATERPROOFING



TYPICAL SECTION THRU ABUTMENT

* POUR CONCRETE ABOVE THIS JOINT
AFTER SUPERSTRUCTURE IS IN PLACE.

STATE PROJECT NUMBER

7995-02-48

BILL OF BARS

BAR NO.	COATED BAR	NO. REQ'D.	LENGTH	BENT BAR	BUNDLED BAR SERIES	4,600# COATED 9,210# UNCOATED
						LOCATION
B501	X	220	3-4	X		ABUTMENT DOWELS
B402	X	8	30-10			ABUTMENT BODY HORIZ. E.F.
B603	X	2	60-0			ABUTMENT BODY HORIZ. TOP E.F.
B504	X	27	8-0			ABUTMENT BODY HORIZ. TOP JOINT
B505	X	64	6-6	X		ABUTMENT WING AND PED. UNDERPASS HEADER VERT.
B506	X	64	3-7	X		ABUTMENT WING AND PED. UNDERPASS HEADER VERT. TOP
B407	X	12	8-1			ABUTMENT WING HORIZ. E.F.
B408	X	12	3-5			ABUTMENT WING HORIZ. E.F.
B609	X	4	8-1			ABUTMENT WING HORIZ. TOP E.F.
B610	X	4	3-5			ABUTMENT WING HORIZ. TOP E.F.
B511		360	12-4	X		PED. UNDERPASS CORNER BARS
B412		46	11-4			PED. UNDERPASS BOT. SLAB TRANS.
B413		44	7-8			PED. UNDERPASS BOT. SLAB TRANS.
B414		98	29-8			PED. UNDERPASS LONG.
B415		80	2-4			PED. UNDERPASS WALLS DOWELS
B416		80	10-4			PED. UNDERPASS WALLS VERT.
B417		46	11-4			PED. UNDERPASS TOP SLAB TRANS.
B418		44	7-8			PED. UNDERPASS TOP SLAB TRANS.
B419		46	3-4			PED. UNDERPASS TOP SLAB TRANS. TOP
B520		44	4-0			PED. UNDERPASS SLAB & WALL CONST. JT.
B621	X	6	11-4			PED. UNDERPASS HEADER BOT.
B722	X	32	7-5	X		PED. UNDERPASS HEADER VERT. B.F.
B523	X	32	8-0	X		PED. UNDERPASS HEADER VERT. F.F.
B424	X	30	11-4			PED. UNDERPASS HEADER HORIZ. E.F.
B625	X	4	11-4			PED. UNDERPASS HEADER HORIZ. TOP E.F.
B526	X	64	4-4	X		PARAPET VERT. WINGS AND PED. UNDERPASS HEADER
B527	X	64	8-6	X		PARAPET VERT.
B528	X	4	23-8			PARAPET HORIZ. BOT. WINGS
B729	X	4	23-8			PARAPET HORIZ. TOP WINGS
B530	X	4	11-10	X		ABUTMENT BODY SDWK. TRANS.
B831		32	6-2	X		PED. UNDERPASS TOP SLAB HEADER LONG.
B532	X	24	2-9			ABUTMENT BODY DOWELS E.F. WATER MAIN
B533	X	8	2-3			ABUTMENT BODY E.F. WATER MAIN

BENDING DIMENSIONS ARE OUT TO OUT OF BARS.

▲ ADHESIVE ANCHORS NO. 5 BAR,
EMBED 1'-0 1/2" MIN.

● PEDESTRIAN UNDERPASS BARS (CATEGORY 0030)
1,150# COATED AND 9,210# UNCOATED.

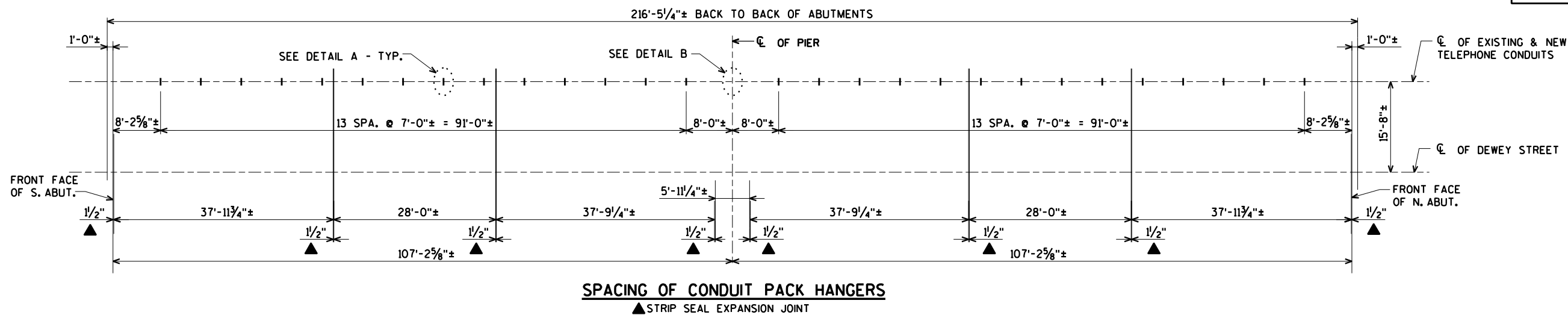
E.F. DENOTES EACH FACE
F.F. DENOTES FRONT FACE
B.F. DENOTES BACK FACE

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Eau Claire, WI 54701
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WORK THIS SHEET WITH SHEETS 34 THRU 38

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
STRUCTURE B-18-93			
DRAWN BY		CLP	PLANS CK'D. CBM
NORTH ABUTMENT DETAILS AND BILL OF BARS		SHEET 39 OF 40	

8

**GENERAL NOTES**

EXISTING TELEPHONE CONDUITS TO BE REMOVED PRIOR TO CONSTRUCTION AND TEMPORARILY SUPPORTED AERIALY TO THE WEST. NEW CONDUITS WILL BE PROVIDED AND REATTACHED TO THE NEW DECK AND SUPERSTRUCTURE AS PART OF THIS CONTRACT.

ANCHOR BOLTS SHALL BE $\frac{3}{4}$ " DIA. FEMALE OVERHEAD ANCHOR BOLTS, FIGURE 561, AS MANUFACTURED BY NATIONAL PIPE HANGER CORPORATION OR AN APPROVED EQUAL.

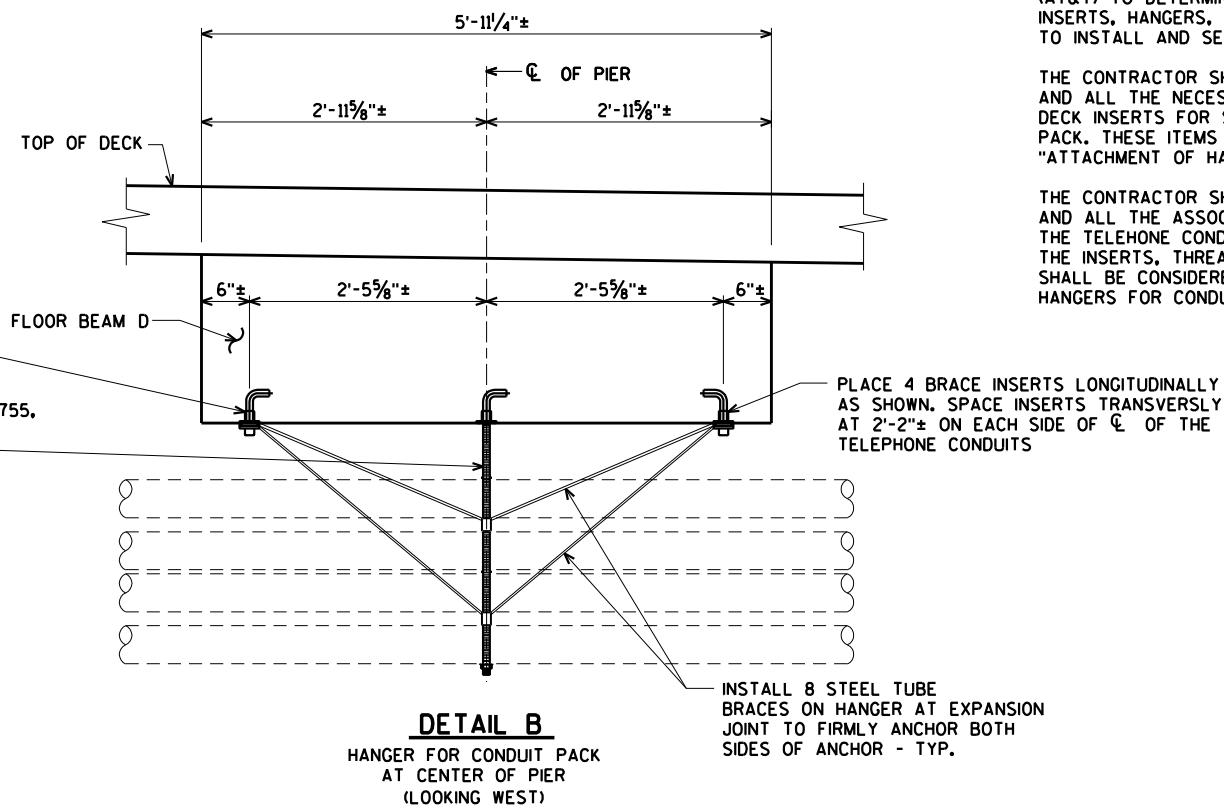
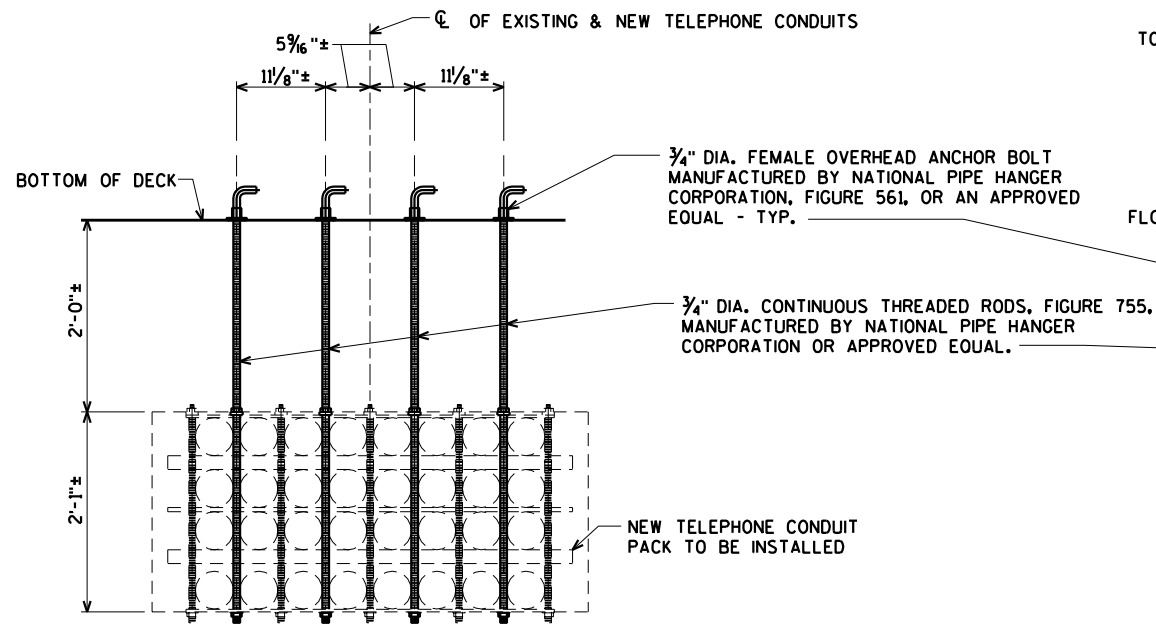
ALL BOLTS, NUTS AND WASHERS SHALL BE GALVANIZED FINISH.

THE UTILITY OWNER (AT&T) WILL PROVIDE THE NEW CONDUIT PACK.

THE CONTRACTOR SHALL COORDINATE WITH THE UTILITY OWNER (AT&T) TO DETERMINE THE NUMBER AND SPACING OF THE DECK INSERTS, HANGERS, AND ALL NECESSARY HARDWARE REQUIRED TO INSTALL AND SECURE THE NEW TELEPHONE CONDUIT PACK.

THE CONTRACTOR SHALL SUPPLY DECK INSERTS, THREADED RODS, AND ALL THE NECESSARY HARDWARE REQUIRED TO INSTALL THE DECK INSERTS FOR SUPPORTING THE TELEPHONE CONDUIT PACK. THESE ITEMS SHALL BE CONSIDERED INCIDENTAL TO BID ITEM "ATTACHMENT OF HANGERS FOR CONDUIT PACK".

THE CONTRACTOR SHALL INSTALL THE INSERTS, THREADED RODS, AND ALL THE ASSOCIATED HARDWARE REQUIRED TO INSTALL THE TELEPHONE CONDUIT PACK. THE INSTALLATION OF THE INSERTS, THREADED RODS, AND ALL ASSOCIATED HARDWARE SHALL BE CONSIDERED INCIDENTAL TO BID ITEM "ATTACHMENT OF HANGERS FOR CONDUIT PACK".



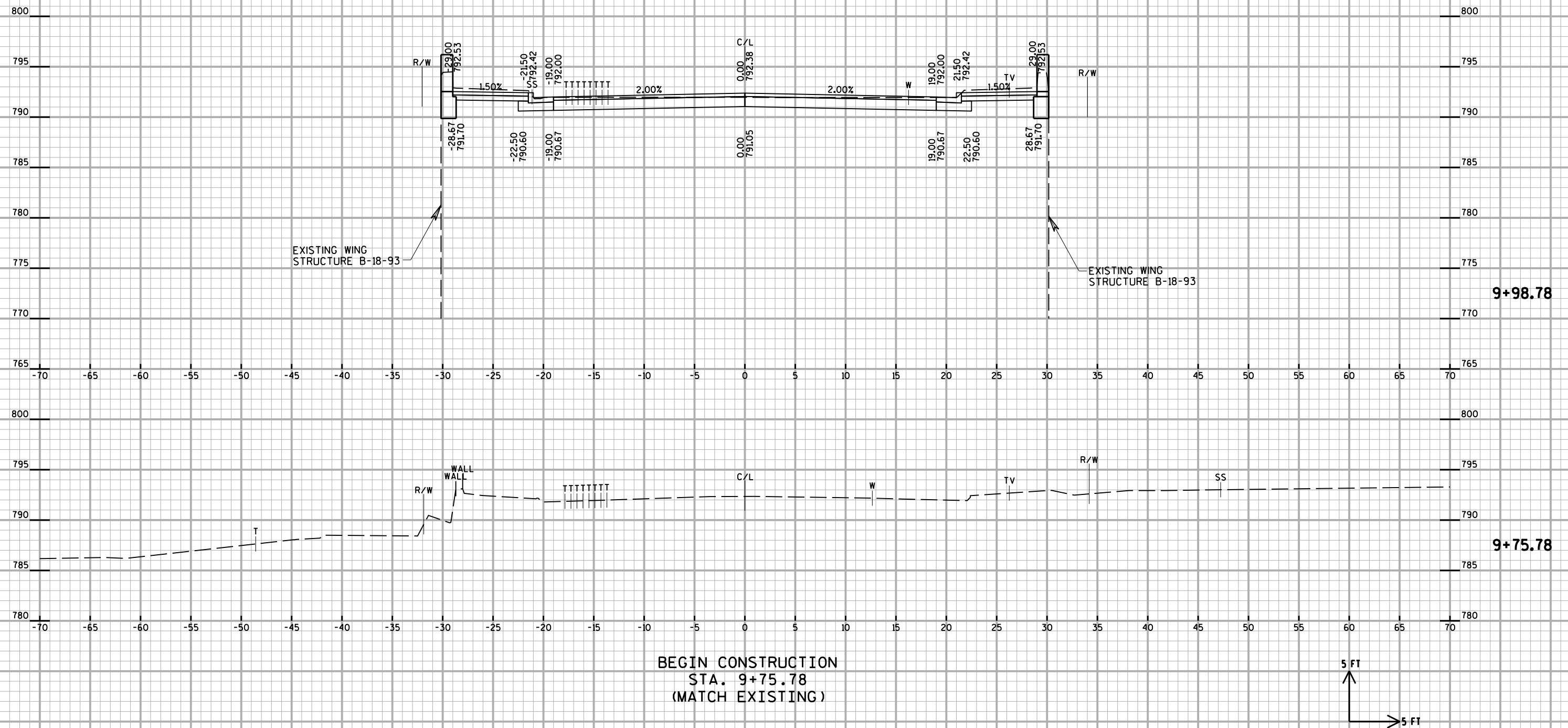
NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
STRUCTURE B-18-93			
DRAWN BY	CLP	PLANS CK'D.	CBM
CONDUIT PACK DETAILS			SHEET 40 OF 40

DEWEY STREET COMPUTER EARTHWORK										
Station	Distance	Area (SF)			Incremental Vol (CY) (Unadjusted)			Cumulative Vol (CY)		Mass Ordinate
		Cut	Salvaged / Unuseable Pavement Material	Fill	Cut	Salvaged / Unuseable Pavement Material	Fill	Cut 1.00	Expanded Fill 1.30	
9+75.78	--	65.2	13.9	0.0						
9+98.78	23	59.4	12.7	0.0	53	11	0	42	0	42
B-18-93	--	--		--	--	--	--	--	--	--
12+15.22	--	60.1	12.7	0.0	--	--	--	--	--	--
12+38.22	23	63.6	12.6	0.8	53	30	0	65	0	64
12+50	12	59.0	11.6	0.9	27	26	0	65	1	64
12+75	25	54.8	10.1	1.0	53	22	1	96	2	94
12+92.22	17	54.2	10.7	1.3	35	21	1	110	3	107
					220	110	2			

Note 1 - Cut	Cut includes existing asphalt pavement.
Note 2 - Fill	Volume needed to be filled.
Note 3 - Mass Ordinate	(Cut) - (Fill * 1.30)
Note 4 - Salvaged / Unuseable Pavement Material	Existing existing asphalt pavement to be removed from Cut.
Note 5 - Cut	Cut reduced by salvaged/unuseable asphaltic pavement

PROJECT NO: 7995-02-48	HWY: DEWEY STREET	COUNTY: EAU CLAIRE	EARTHWORK SUMMARY	SHEET	E
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STA. 9+75.78 TO 9+98.78



PROJECT NO: 7995-02-48

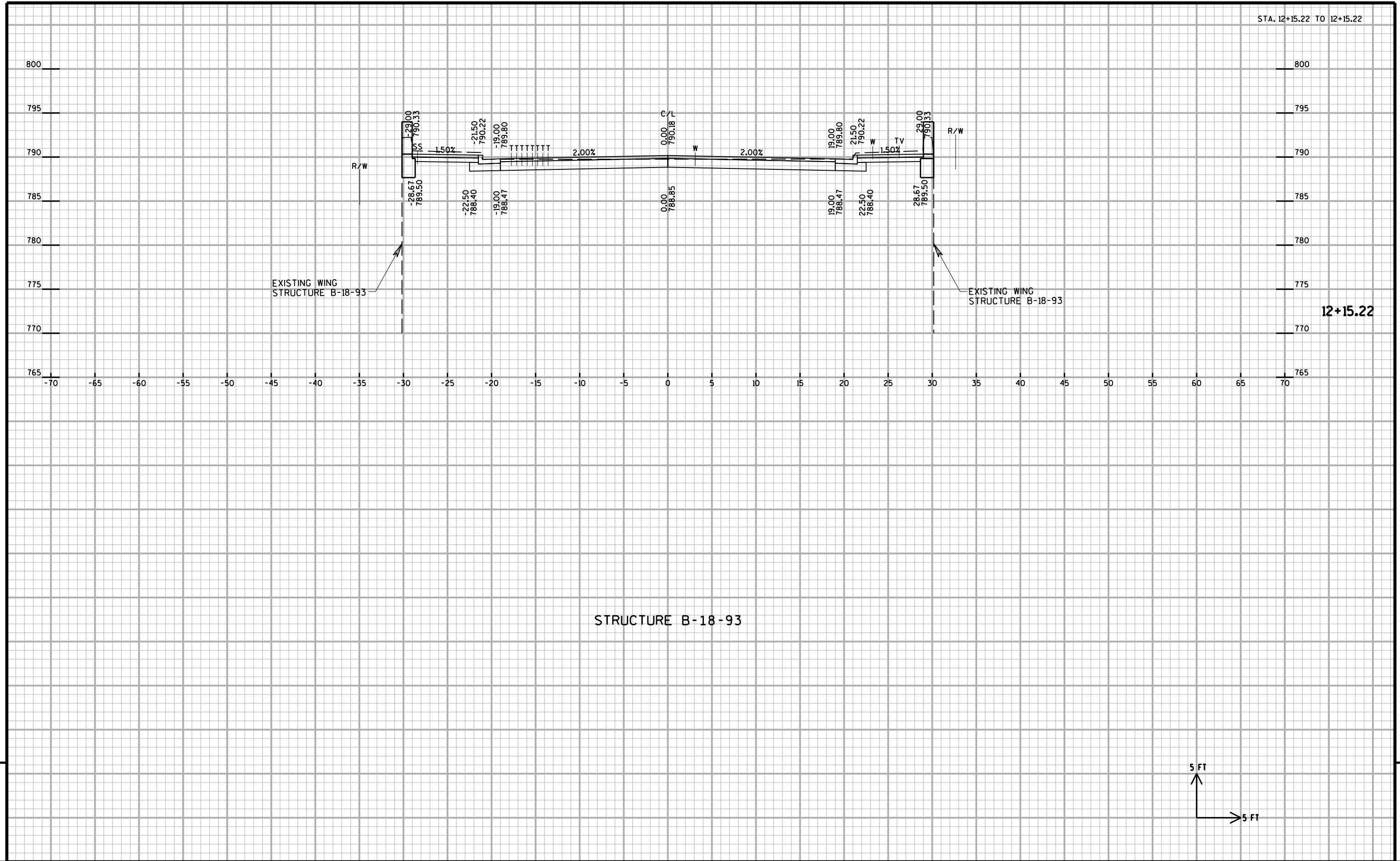
HWY: DEWEY STREET

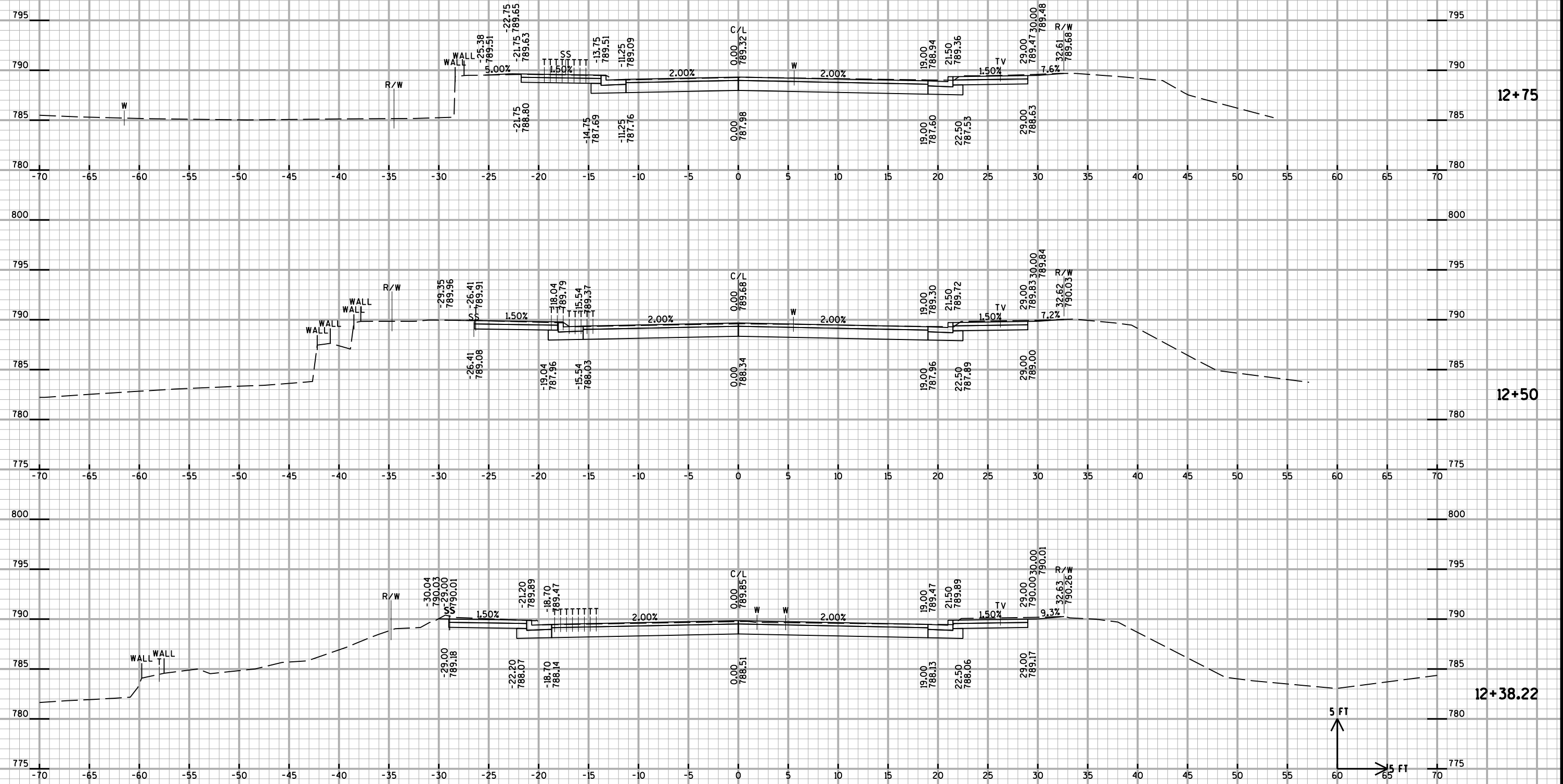
COUNTY: EAU CLAIRE

CROSS SECTIONS

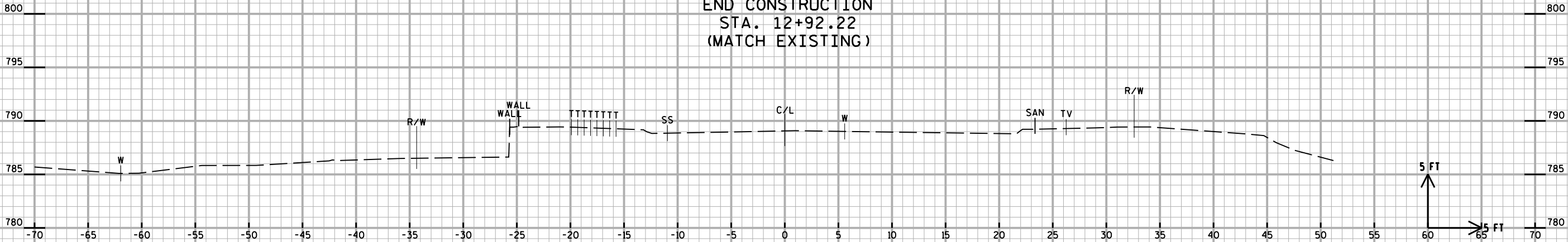
SHEET

11



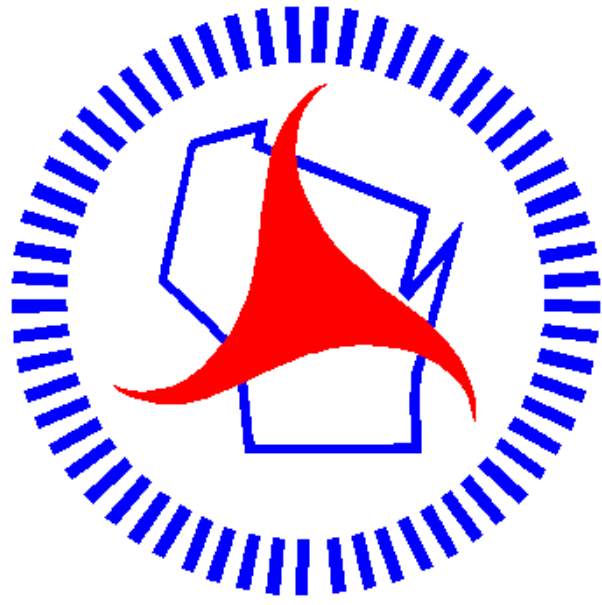


END CONSTRUCTION
STA. 12+92.22
(MATCH EXISTING)



9

9



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