


CTH X
A.A.D.T.=18,000 (2037)
R.D.S.=50 M.P.H.

100 YEAR FREQUENCY

2 YEAR FREQUENCY
Q₂ = 764 C.F.S.
HW_{.2} = EL. 793.11

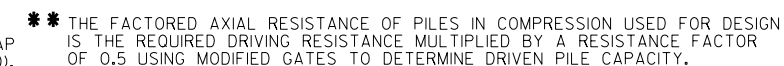
1. GENERAL PLAN
2. CROSS SECTION & QUANTITIES
3. SUBSURFACE EXPLORATION
4. WEST ABUTMENT
5. WEST ABUTMENT DETAILS
6. EAST ABUTMENT
7. EAST ABUTMENT DETAILS
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10. STEEL DIAPHRAGMS
11. SUPERSTRUCTURE
12. SUPERSTRUCTURE DETAILS
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14. EAST APPROACH SLAB
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STRUCTURAL APPROACH SLAB
17. SINGLE SLOPE PARAPET 4SSS WITH
STRUCTURAL APPROACH SLAB
18. VERTICAL FACE PARAPET 'A' WITH
STRUCTURAL APPROACH SLAB
19. CHAIN LINK FENCE DETAILS

MAX KULICK	(608) 261-6108
AARON BONK	(608) 261-0261

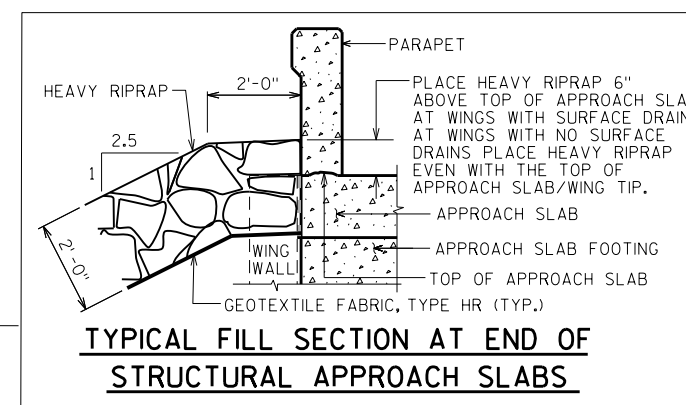
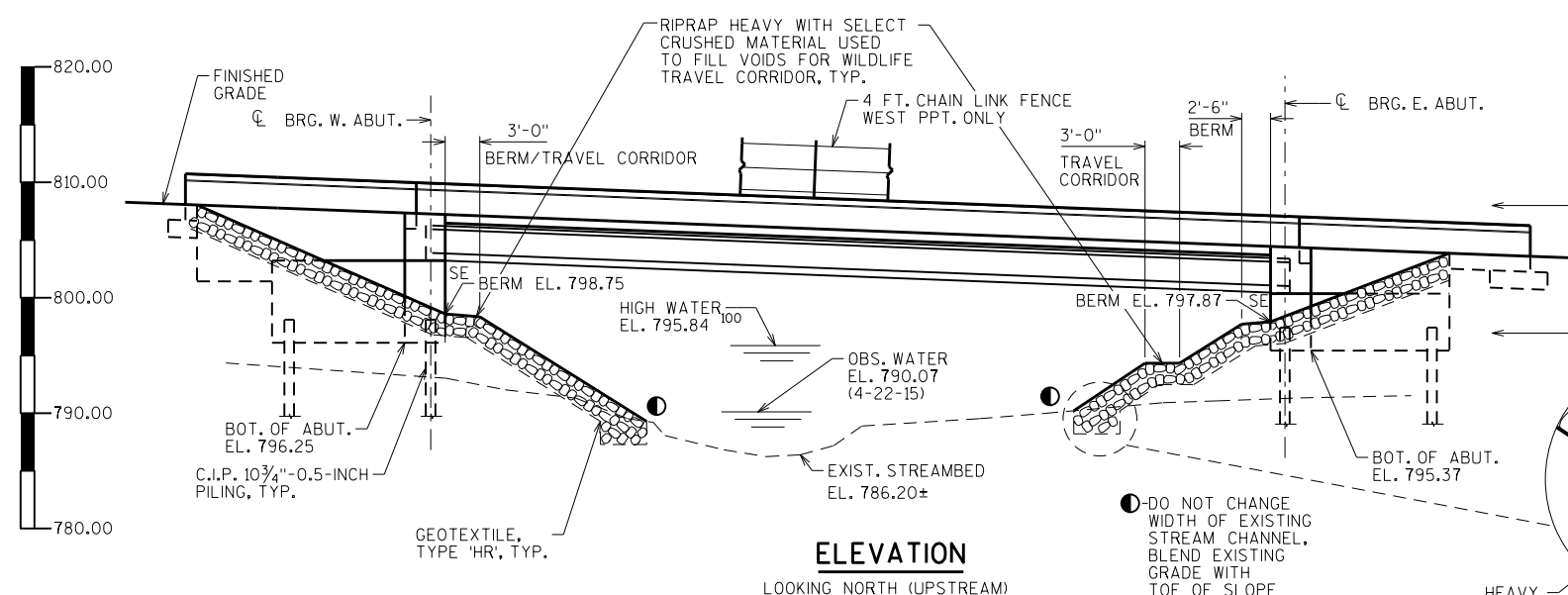
NO.	DATE	REVISION	BY
 <div style="display: inline-block; vertical-align: middle; margin-left: 10px;"> Plans Prepared By WISDOT BUREAU OF STRUCTURES </div>			
ACCEPTED <i>William C. Dickins</i>		6/23/17	
CHIEF STRUCTURES		DESIGN ENGINEER	
DATE			
<h1>STRUCTURE B-67-315</h1>			
CTH X (GENESEE RD) WB OVER PEBBLE CREEK			
COUNTY	WAUKESHA	TOWN/CITY/VILLAGE	WAUKESHA
DESIGN SPEC.			
AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS			
DESIGNED BY	MJK/SGN	DESIGN CK'D.	MSC
DRAWN BY	MJK	PLANS CK'D.	SAD
<h2>GENERAL PLAN</h2>		SHEET 1 OF 1	

SCALE = 10.0

DATE: NOV. 2016



SINGLE SPAN 36W" PRESTRESSED GIRDER BRIDGE



TYPICAL FILL SECTION AT END OF
STRUCTURAL APPROACH SLABS

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

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

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

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

THE UPPER LIMITS OF "EXCAVATION FOR STRUCTURES BRIDGES B-67-315" SHALL BE THE EXISTING GROUNDLINE.

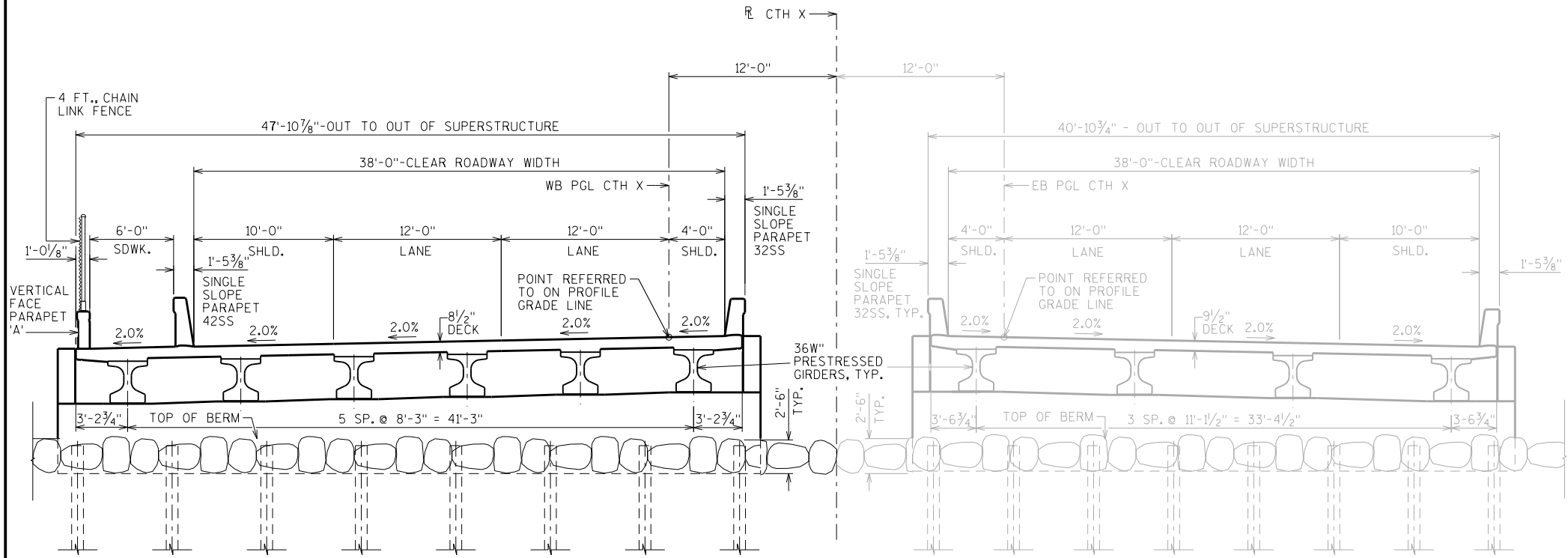
BACKFILL PAY LIMITS. BACKFILL BEYOND BACKFILL PAY LIMITS SHALL BE INCIDENTAL TO EXCAVATION FOR STRUCTURES. LIMITS OF EXCAVATION SHALL BE DETERMINED BY THE CONTRACTOR.

ELASTOMERIC BEARING PADS NEED NOT BE INDIVIDUALLY MOLDED PROVIDED THE CUT EDGES ARE SMOOTH AND TRUE.

PROTECTIVE SURFACE TREATMENT TO BE APPLIED TO THE ENTIRE TOP OF DECK AND STRUCTURAL APPROACH SLAB SURFACES.

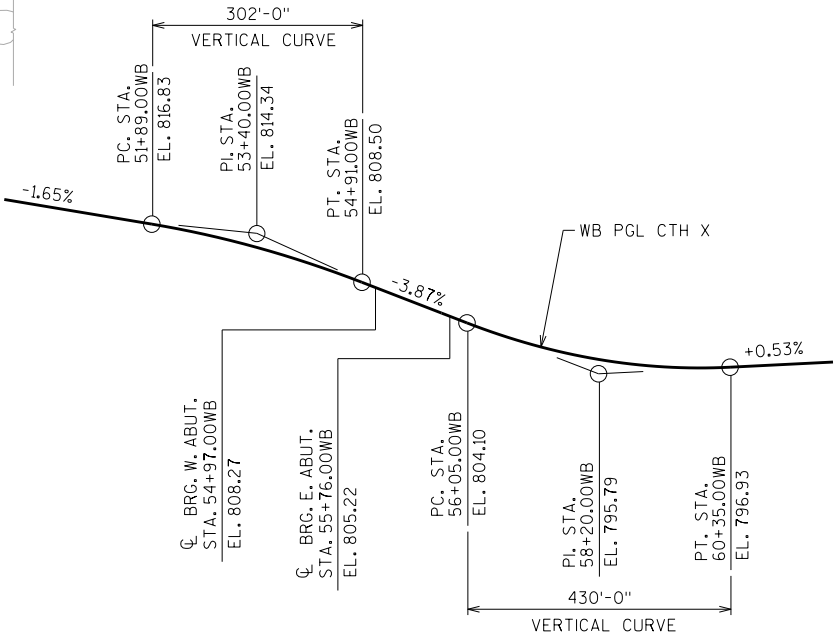
PIGMENTED SURFACE SEALER TO BE APPLIED TO THE FRONT FACE AND THE TOP OF THE PARAPET, INCLUDING PARAPETS ON STRUCTURAL APPROACH SLABS.

THE SLOPE OF THE FILL IN FRONT OF THE ABUTMENTS SHALL BE COVERED WITH HEAVY RIPRAP AND GEOTEXTILE FABRIC TYPE 'HR' TO THE EXTENT SHOWN ON SHEET 1 AND IN THE ABUTMENT DETAILS.

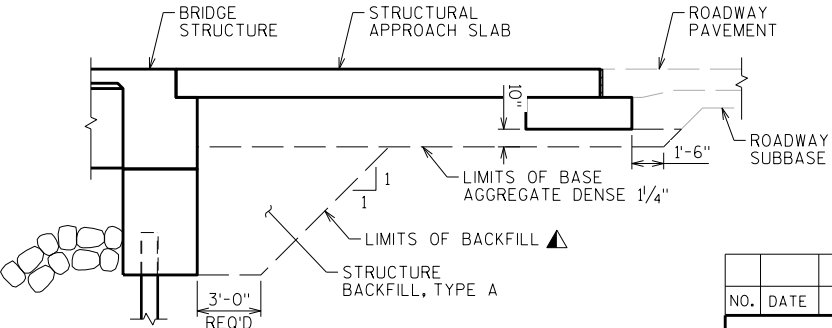


CROSS SECTION THRU ROADWAY B-67-315
LOOKING EAST

CROSS SECTION THRU ROADWAY B-67-314
LOOKING EAST



WB PROFILE GRADE LINE CTH X

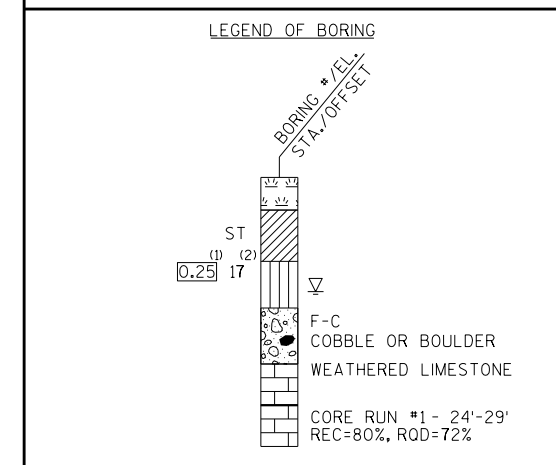
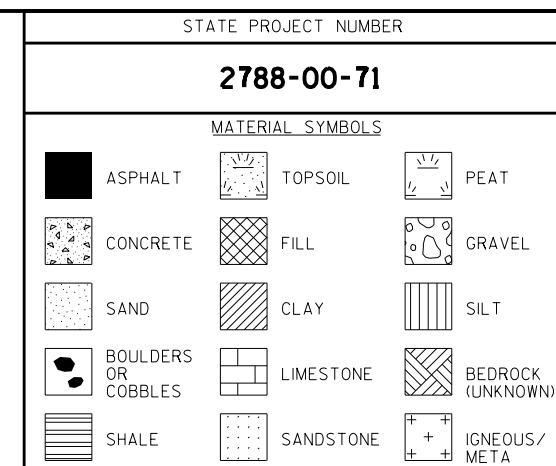


TYPICAL SECTION
THRU ABUTMENT

TOTAL ESTIMATED QUANTITIES

BID ITEM NUMBER	BID ITEMS	UNIT	SUPER.	WEST APPROACH	WEST ABUT.	EAST ABUT.	EAST APPROACH	TOTALS
206.1000	EXCAVATION FOR STRUCTURES BRIDGES B-67-315	LS	—	—	—	—	—	1
210.1500	BACKFILL STRUCTURE TYPE A	TON	—	—	206	129	—	335
305.0120	BASE AGGREGATE DENSE 1 1/4-INCH	TON	—	150	—	—	147	297
501.1000.S	ICE HOT WEATHER CONCRETEING	LB	1,373	518	593	413	503	3,400
502.0100	CONCRETE MASONRY BRIDGES	CY	183	69	79	55	67	453
502.3200	PROTECTIVE SURFACE TREATMENT	SY	422	101	—	—	98	621
502.3210	PIGMENTED SURFACE SEALER	SY	139	34	—	—	34	207
503.0137	PRESTRESSED GIRDER TYPE I 36W-INCH	LF	480	—	—	—	—	480
505.0400	BAR STEEL REINFORCEMENT HS STRUCTURES	LB	—	—	4,500	3,085	—	7,585
505.0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	LB	28,125	12,035	2,880	1,535	11,215	55,790
505.0800.S	BAR STEEL REINFORCEMENT HS STAINLESS STRUCTURES	LB	1,635	—	—	—	—	1,635
506.2605	BEARING PADS ELASTOMERIC NON-LAMINATED	EACH	12	—	—	—	—	12
506.4000	STEEL DIAPHRAGMS B-67-315	EACH	5	—	—	—	—	5
516.0500	RUBBERIZED MEMBRANE WATERPROOFING	SY	—	—	14	14	—	28
550.0500	PILE POINTS	EACH	—	—	13	13	—	26
550.2108	PILING CIP CONCRETE 10 3/4 X 0.50-INCH	LF	—	—	715	845	—	1,560
606.0300	RIPRAP HEAVY	CY	—	—	215	205	—	420
612.0406	PIPE UNDERDRAIN WRAPPED 6-INCH	LF	—	—	100	100	—	200
614.0150	ANCHOR ASSEMBLIES FOR STEEL PLATE BEAM GUARD	EACH	4	—	—	—	—	4
645.0120	GEOTEXTILE TYPE HR	SY	—	—	325	305	—	630
SPV.0090.01	FENCE CHAIN LINK POLYMER COATED-4-FT.	LF	120	—	—	—	—	120
SPV.0195.XX	SELECT CRUSHED MATERIAL FOR WILDLIFE TRAVEL CORRIDOR	TON	—	—	22	22	—	44
	NON-BID ITEMS							
	FILLER	SIZE	—	—	—	—	—	1/2", 3/4", 1 1/2"

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE B-67-315			
DRAWN BY		MJK	PLANS CKD. SAD
CROSS SECTION & QUANTITIES		SHEET 2	





(1) UNCONFINED STRENGTH, AS DETERMINED BY A POCKET PENETROMETER (TSF)


(2) UNLESS OTHERWISE SPECIFIED THE SPT 'N' VALUE IS BASED ON AASHTO T-206, STANDARD PENETRATION TEST. THE SPT 'N' VALUE PRESENTED HAS NOT BEEN CORRECTED FOR OVERBURDEN PRESSURE OR HAMMER

EFFICIENCY.

GROUND WATER ELEVATION

 AT TIME OF DRILLING

 END OF DRILLING

 AFTER DRILLING

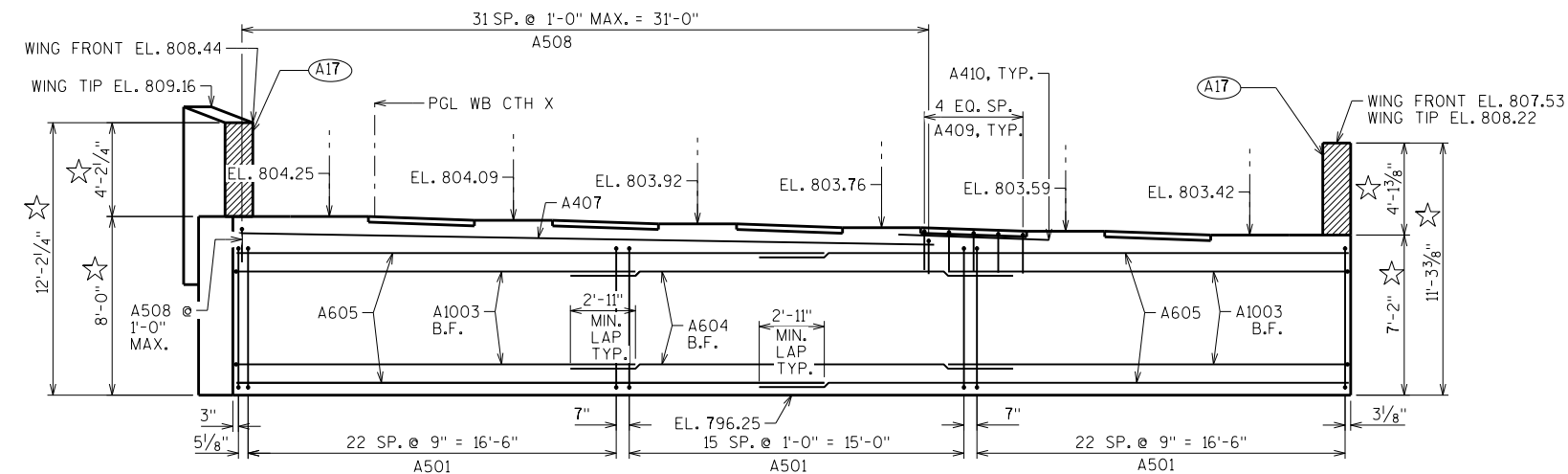
ABBREVIATIONS

F-FINE M-MEDIUM C-COARSE ST-SHELBY TUBE

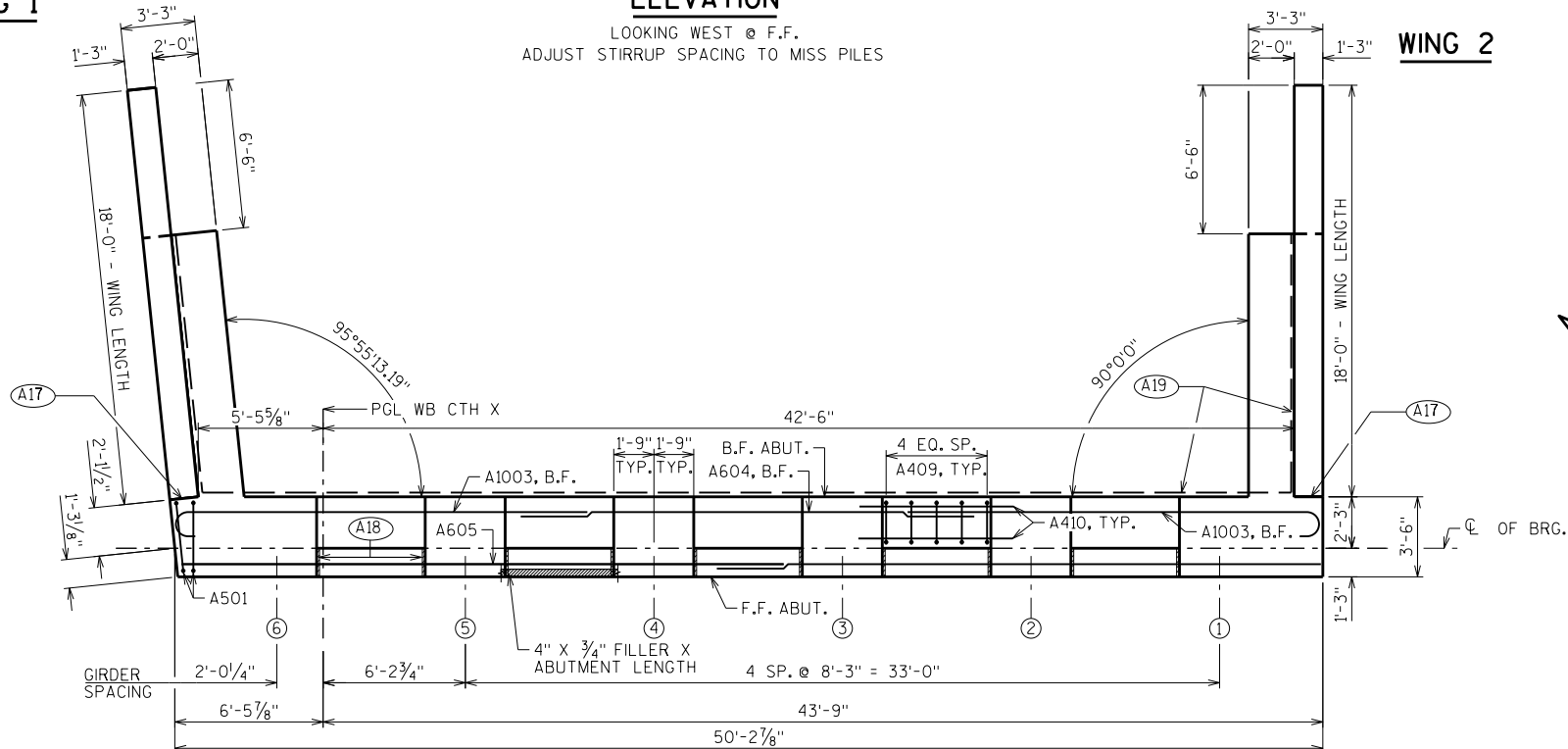
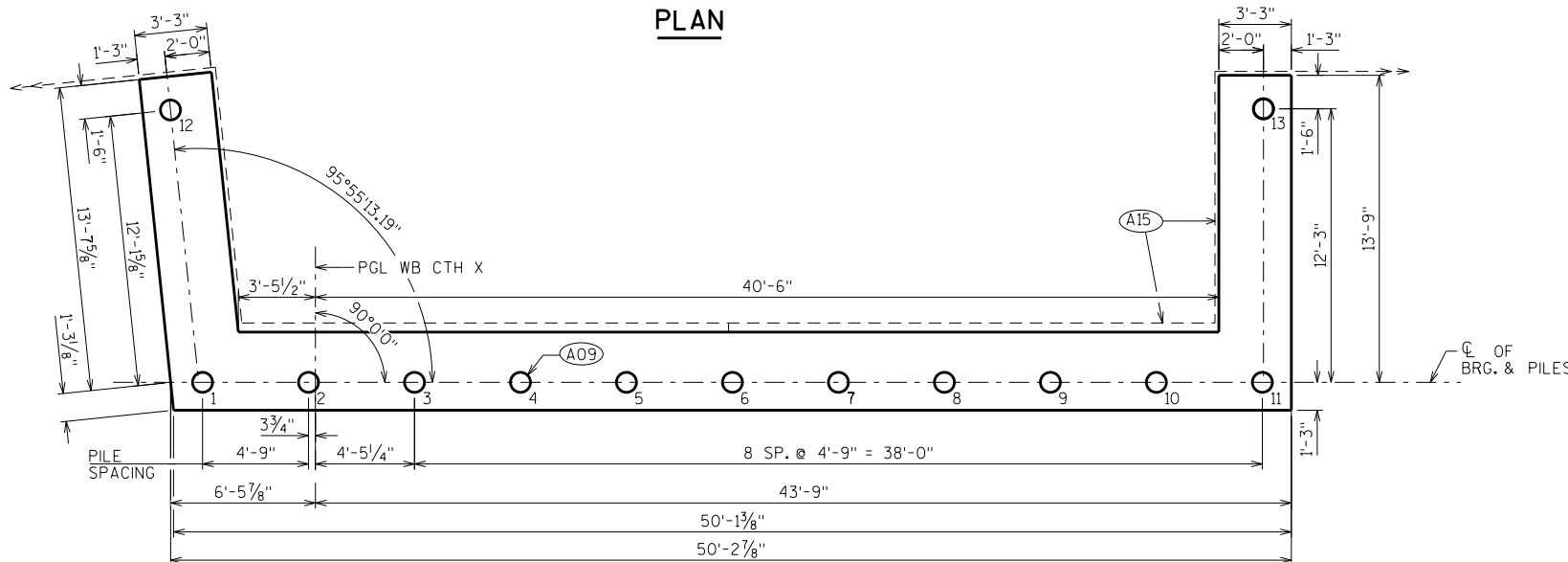
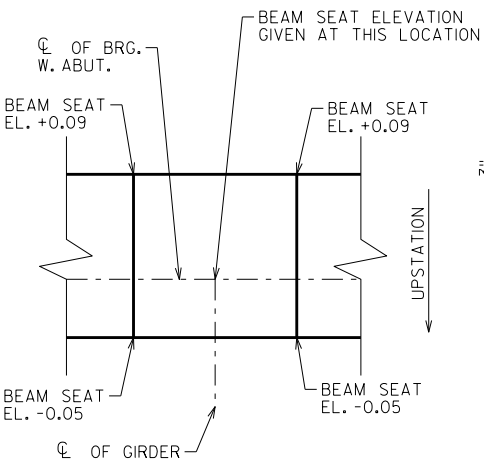
SUBSURFACE EXPLORATION FOR FOUNDATION
DESIGN AND BIDDERS INFORMATION

BORINGS WERE COMPLETED AT POINTS APPROXIMATELY
AS INDICATED ON THIS DRAWING TO OBTAIN INFORMATION
CONCERNING THE CHARACTER OF SUBSURFACE MATERIALS
FOUND AT THE SITE. BECAUSE THE INVESTIGATED
DEPTHS ARE LIMITED AND THE AREA OF THE BORINGS
IS VERY SMALL IN RELATION TO THE ENTIRE SITE,
THE WISCONSIN DEPARTMENT OF TRANSPORTATION DOES
NOT WARRANT SIMILAR SUBSURFACE CONDITIONS BELOW,
BETWEEN, OR BEYOND THESE BORINGS. VARIATIONS IN
SOIL CONDITIONS SHOULD BE EXPECTED AND
FLUCTUATIONS IN GROUNDWATER LEVELS MAY OCCUR.

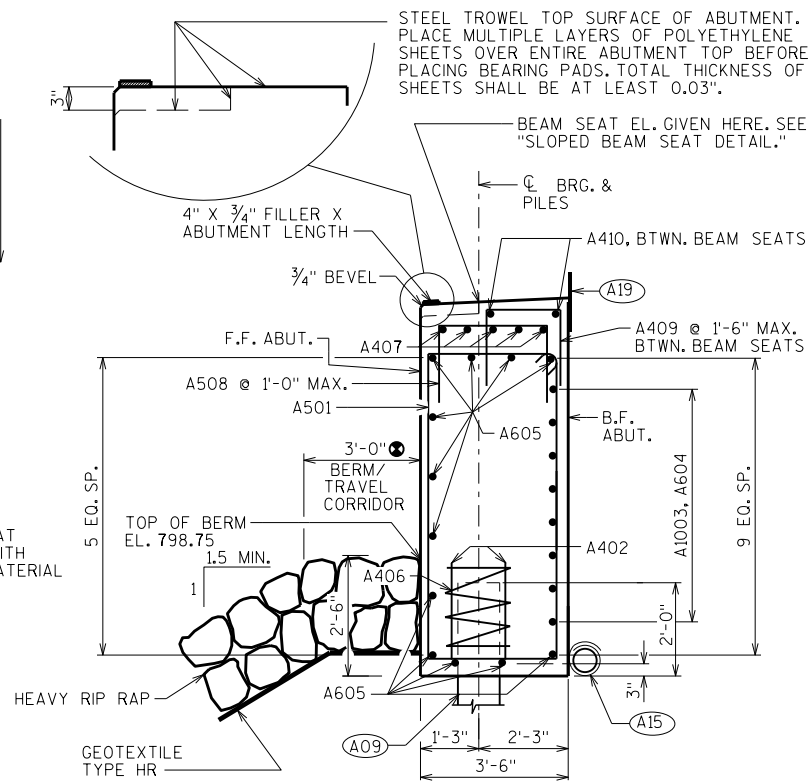
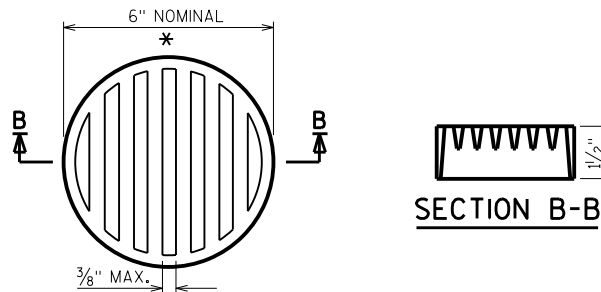
NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE B-67-315			
		DRAWN BY TLP/MJK	PLANS CK'D. SAD
SUBSURFACE EXPLORATION		SHEET 3	

**ELEVATION**

LOOKING WEST @ F.F.
ADJUST STIRRUP SPACING TO MISS PILES

WING 1**WING 2****PLAN****PILE PLAN****SLOPED BEAM SEAT DETAIL**

● FILL RIPRAP VOIDS AT TRAVEL CORRIDOR WITH SELECT CRUSHED MATERIAL

**SECTION THRU BODY****RODENT SHIELD DETAIL**

☆ MEASURED AT C. BRG.

○ INDICATES GIRDER NUMBER

(A09) SUPPORT ABUTMENT ON 10 3/4" DIA. X 0.5" CIP CONCRETE PILING, ESTIMATED 55'-0" LONG WITH A REQUIRED DRIVING RESISTANCE OF 150 TONS PER PILE. PILE POINTS REQUIRED.

(A15) PIPE UNDERDRAIN WRAPPED (6-INCH). SLOPE 0.5% MIN. TO SUITABLE DRAINAGE. RODENT SHIELD REQUIRED.

(A17) 1/2" FILLER (INCLUDED IN WING LENGTH); SEAL ALL EXPOSED HORIZ. & VERT. SURFACES OF 1/2" FILLER WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER, (1" DEEP AND HOLD 1/8" BELOW SURFACE OF CONCRETE). EXTEND SEALER 3" BELOW GUTTER LINE AT INSIDE FACE.

(A18) 3/4" CORK FILLER UP VERT. BEAM SEAT FACES THAT RUN PARALLEL WITH GIRDER.

(A19) 18" (RMW) RUBBERIZED MEMBRANE WATERPROOFING SEAL ALL HORIZ. & VERT. JOINTS AT BACKFACE.

* DIMENSIONS ARE APPROXIMATE. THE GRATE IS SIZED TO FIT INTO A PIPE COUPLING. ORIENT SO SLOTS ARE VERTICAL.

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

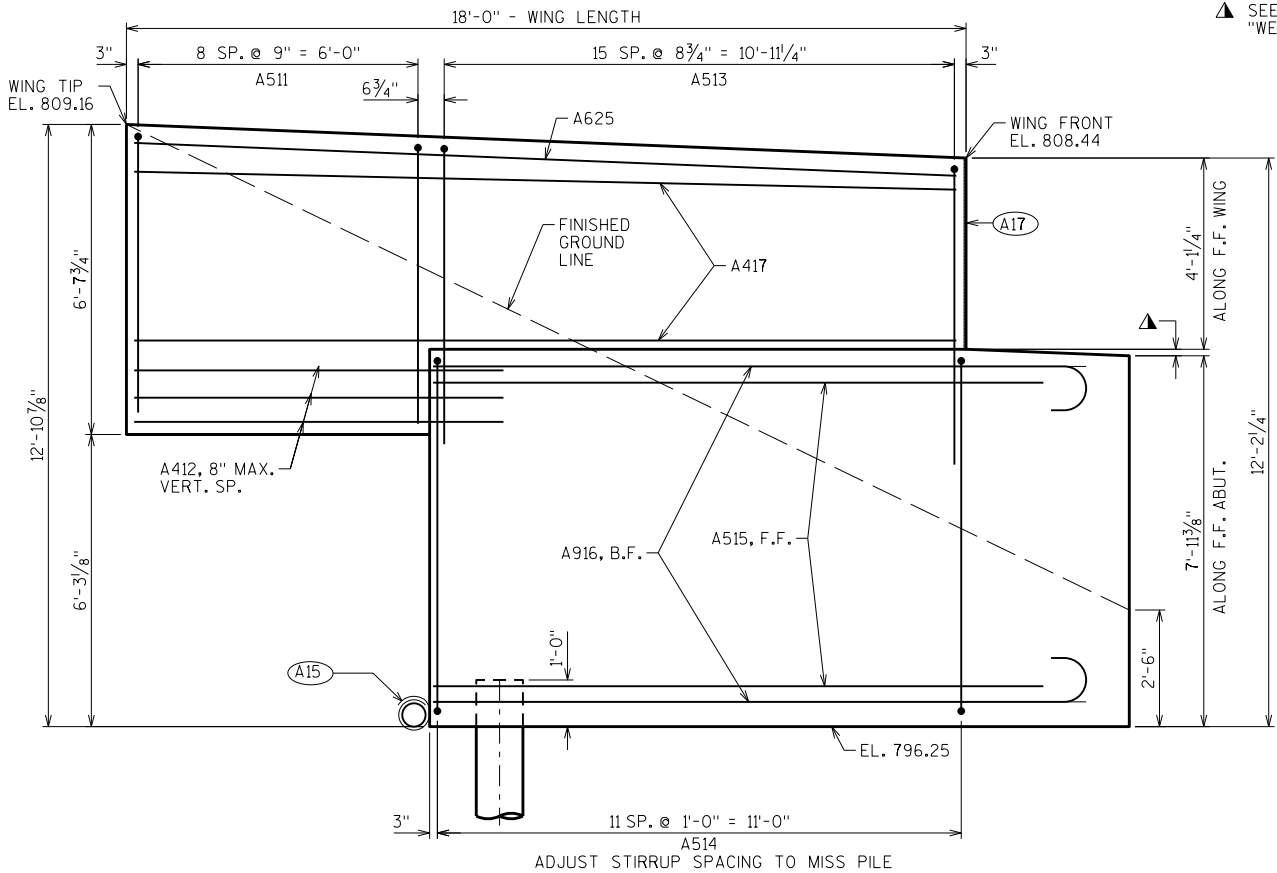
THE RODENT SHIELD SHALL BE A PVC GRATE SIMILAR TO THIS DETAIL. THE GRATE IS COMMERCIALY AVAILABLE AS A FLOOR STRAINER. A PIPE COUPLING IS REQUIRED FOR THE ATTACHMENT OF THIS SHIELD TO THE EXPOSED END OF THE PIPE UNDERDRAIN. THE SHIELD SHALL BE FASTENED TO THE PIPE COUPLING WITH TWO OR MORE NO. 10 X 1-INCH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

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE B-67-315			
DRAWN BY		MJK	PLANS CKD. SAD
WEST ABUTMENT		SHEET 4	

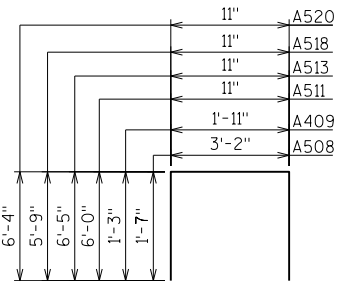
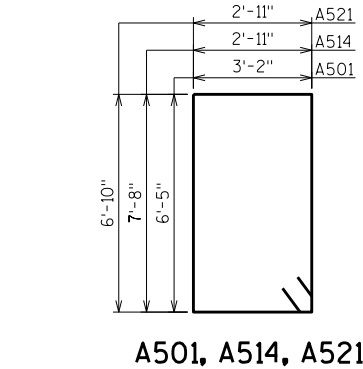
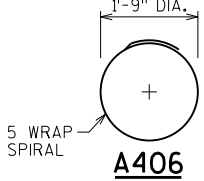
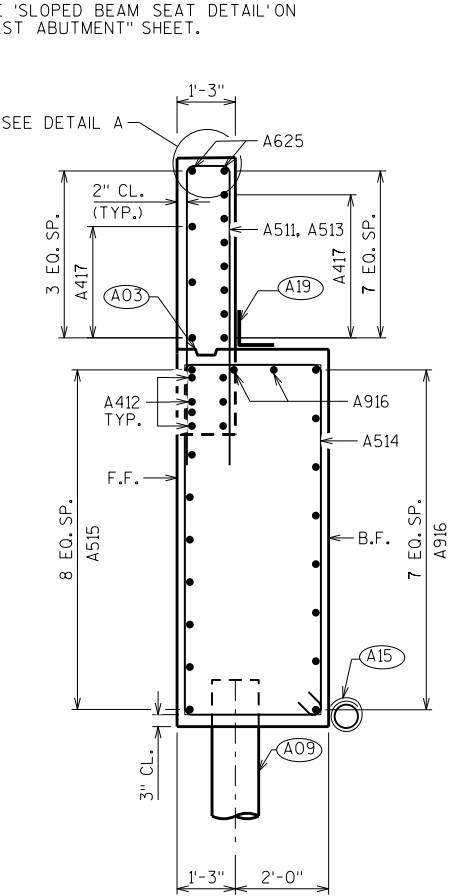
BILL OF BARS

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

BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	BAR SERIES	LOCATION
A501		63	19'-10"	X		BODY - STIRRUPS
A402		22	2'-3"			PILES - 2 PER BODY PILE
A1003		16	19'-5"	X		BODY - HORIZONTAL - B.F.
A604		8	19'-11"			BODY - HORIZONTAL - B.F.
A605		24	26'-6"			BODY - HORIZONTAL
A406		11	28'-0"	X		BODY - VERTICAL - 1 PER BODY PILES
A407		5	31'-3"			BODY - HORIZ. OVER GIRS. 3-6
A508		32	6'-1"	X		BODY - TOP - VERT. OVER GIRS. 3-6
A409		25	4'-3"	X		BODY - VERTICAL - BTWN. BEAM SEATS
A410		10	6'-9"			BODY - HORIZONTAL - BTWN. BEAM SEATS
A511	X	9	12'-8"	X		WING 1 - VERTICAL - UPPER WING
A412	X	6	7'-11"			WING 1 - HORIZONTAL - UPPER WING
A513	X	16	13'-6"	X		WING 1 - VERTICAL - UPPER WING
A514	X	12	21'-10"	X		WING 1 - STIRRUPS - LOWER WING
A515	X	9	13'-1"			WING 1 - HORIZONTAL - F.F. - LOWER WING
A916	X	10	15'-3"	X		WING 1 - HORIZ. - B.F. - LOWER WING
A417	X	10	17'-7"			WING 1 - HORIZONTAL - UPPER WING
A518	X	9	12'-2"	X		WING 2 - VERTICAL - UPPER WING
A419	X	6	7'-9"			WING 2 - HORIZONTAL - UPPER WING
A520	X	16	13'-4"	X		WING 2 - VERTICAL - UPPER WING
A521	X	12	20'-2"	X		WING 2 - STIRRUPS - LOWER WING
A522	X	8	13'-1"			WING 2 - HORIZONTAL - F.F. - LOWER WING
A923	X	10	15'-3"	X		WING 2 - HORIZONTAL - B.F. - LOWER WING
A424	X	10	17'-7"			WING 2 - HORIZONTAL - UPPER WING
A625	X	2	17'-7"			WING 1 - HORIZONTAL - UPPER WING
A626	X	2	17'-7"			WING 2 - HORIZONTAL - UPPER WING

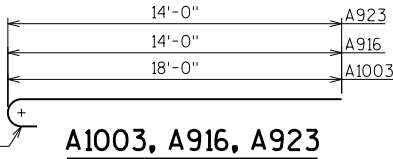


SEE 'SLOPED BEAM SEAT DETAIL' ON 'WEST ABUTMENT' SHEET.

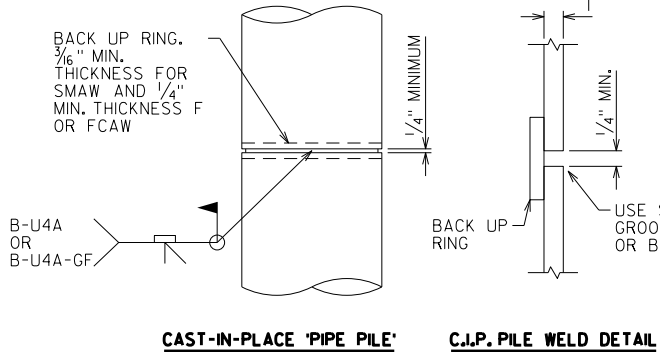


A508, A409, A511, A513

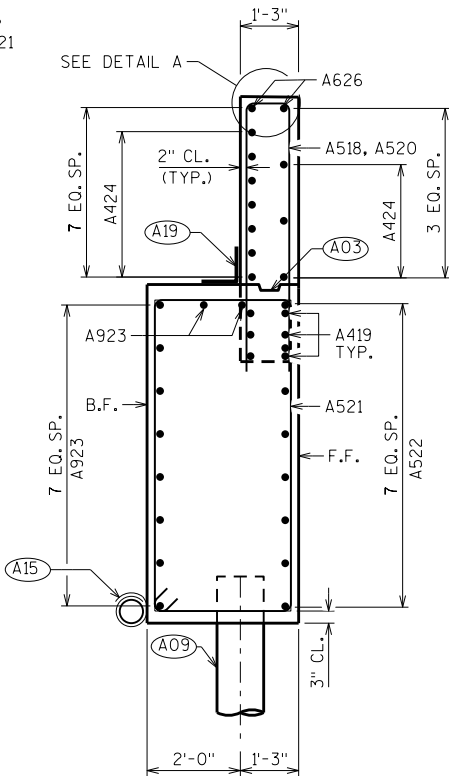
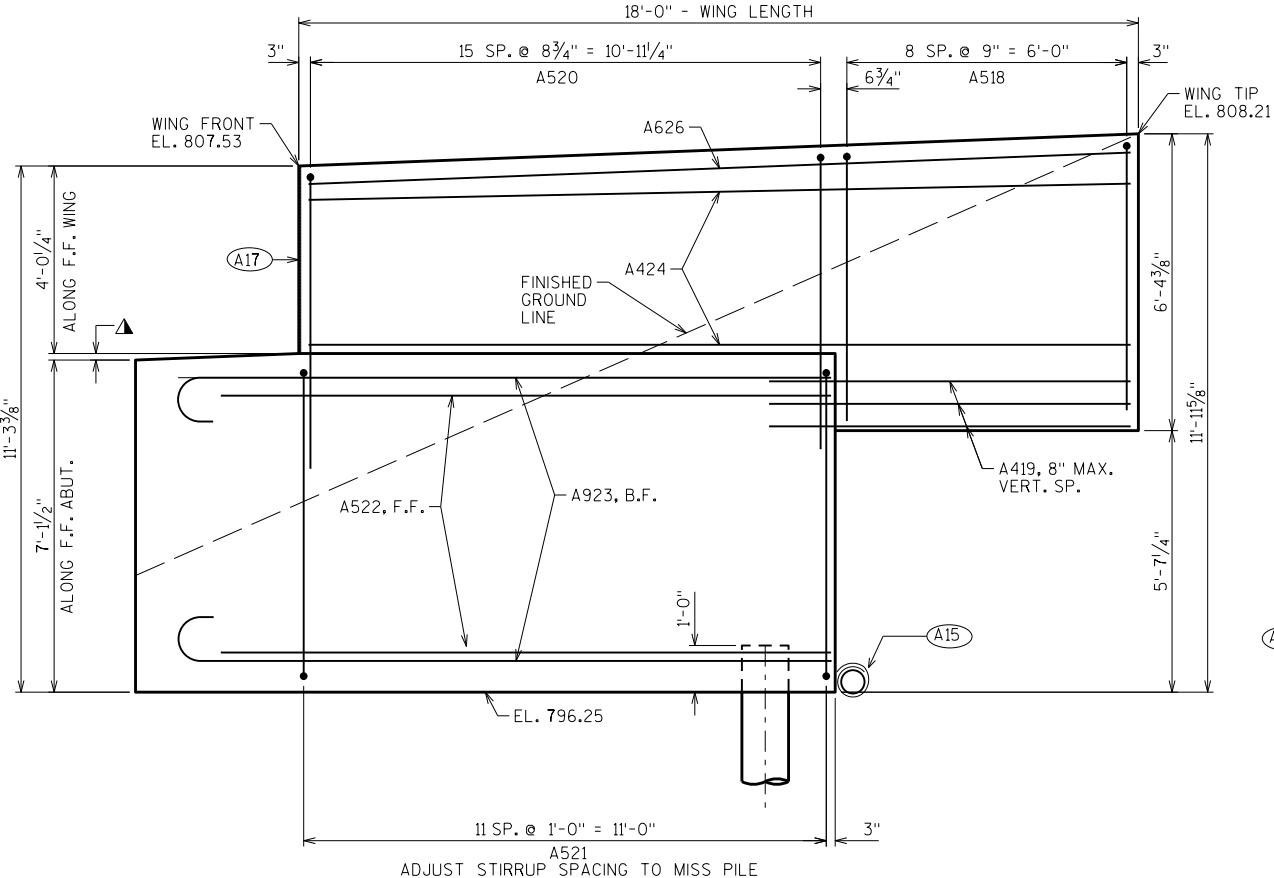
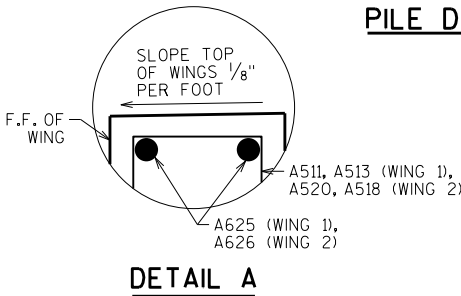
A518, A520



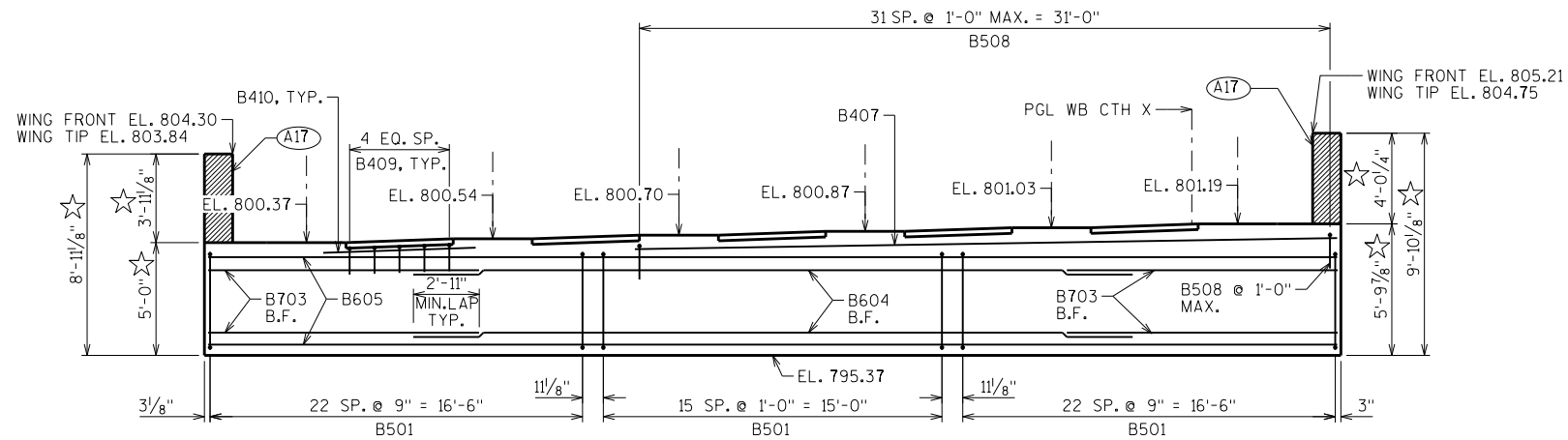
- (A03) OPTIONAL CONST. JOINT: KEYWAY FORMED BY BEVELED 2 x 6, (18" R.M.W. @ B.F. & 3/4" "V" GROOVE @ F.F. IF JOINT IS USED).
- (A09) SUPPORT ABUTMENT ON 10 3/4" DIA. X 0.5" CIP CONCRETE PILING, ESTIMATED 55'-0" LONG WITH A REQUIRED DRIVING RESISTANCE OF 150 TONS PER PILE. PILE POINTS REQUIRED.
- (A15) PIPE UNDERDRAIN WRAPPED (6-INCH). SLOPE 0.5% MIN. TO SUITABLE DRAINAGE. RODENT SHIELD REQUIRED.
- (A17) 1/2" FILLER (INCLUDED IN WING LENGTH); SEAL ALL EXPOSED HORIZ. & VERT. SURFACES OF 1/2" FILLER WITH NON-BITUMINOUS JOINT SEALER. (1" DEEP AND HOLD 1/8" BELOW SURFACE OF CONCRETE). EXTEND SEALER 3" BELOW GUTTER LINE AT INSIDE FACE.
- (A19) 18" (RMW) RUBBERIZED MEMBRANE WATERPROOFING SEAL ALL HORIZ. & VERT. JOINTS AT BACKFACE.



PILE DETAILS



NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE B-67-315			
DRAWN BY		MJK	PLANS CKD. SAD
WEST ABUTMENT DETAILS			SHEET 5

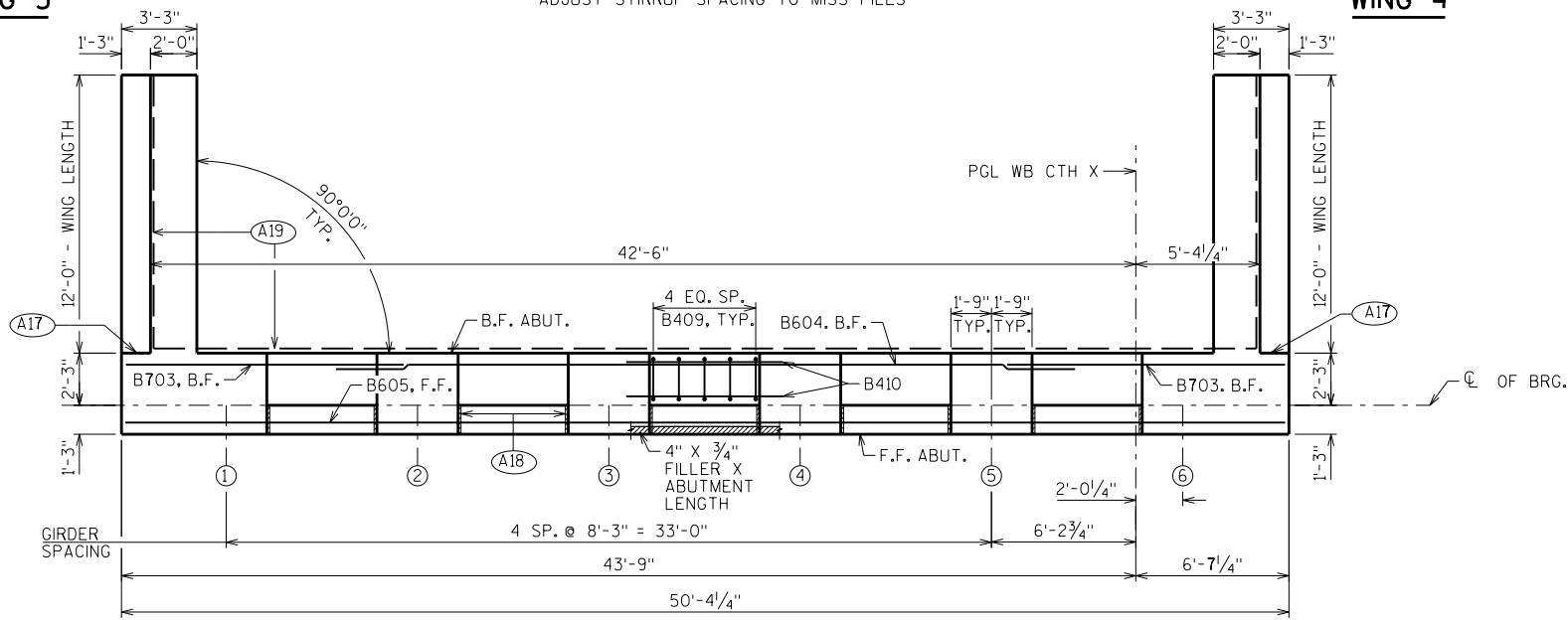


ELEVATION

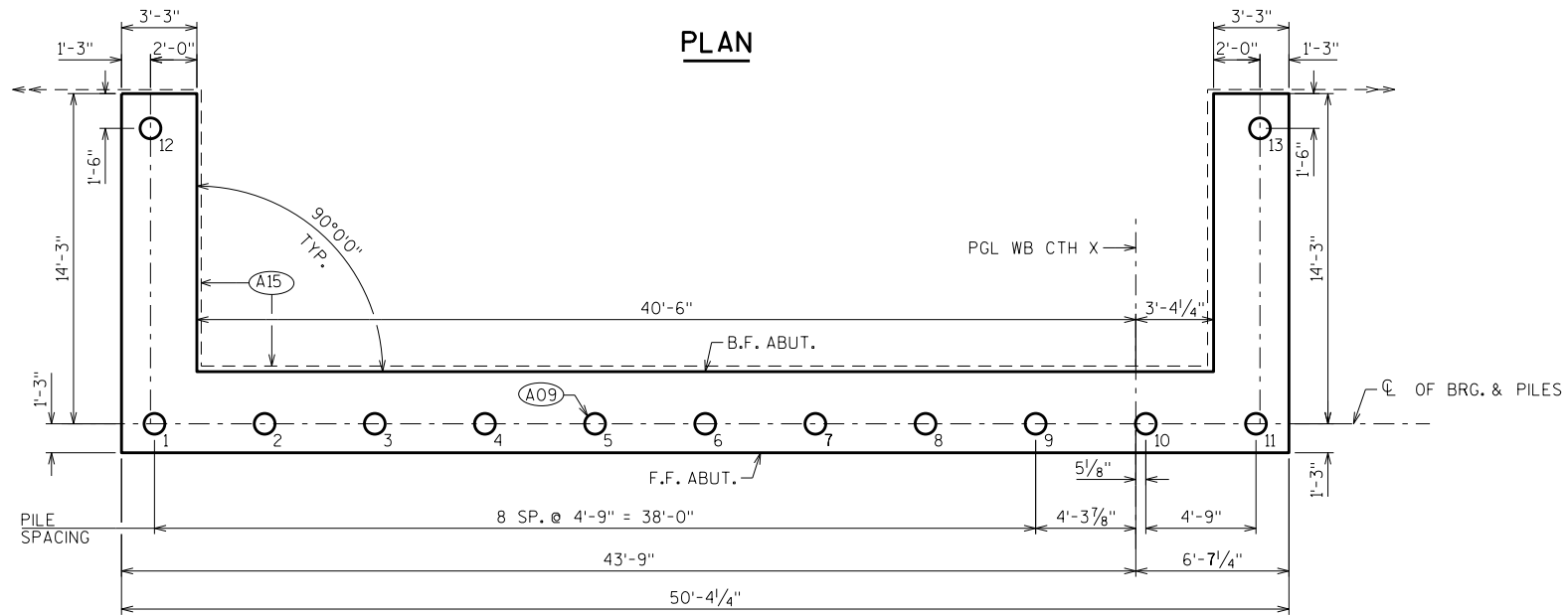
LOOKING EAST @ F.F.
ADJUST STIRRUP SPACING TO MISS PILES

WING 3

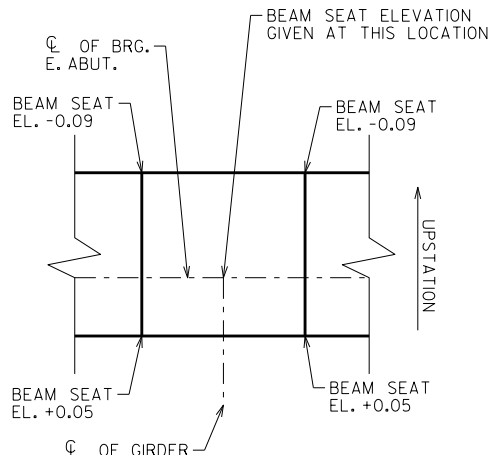
WING 4



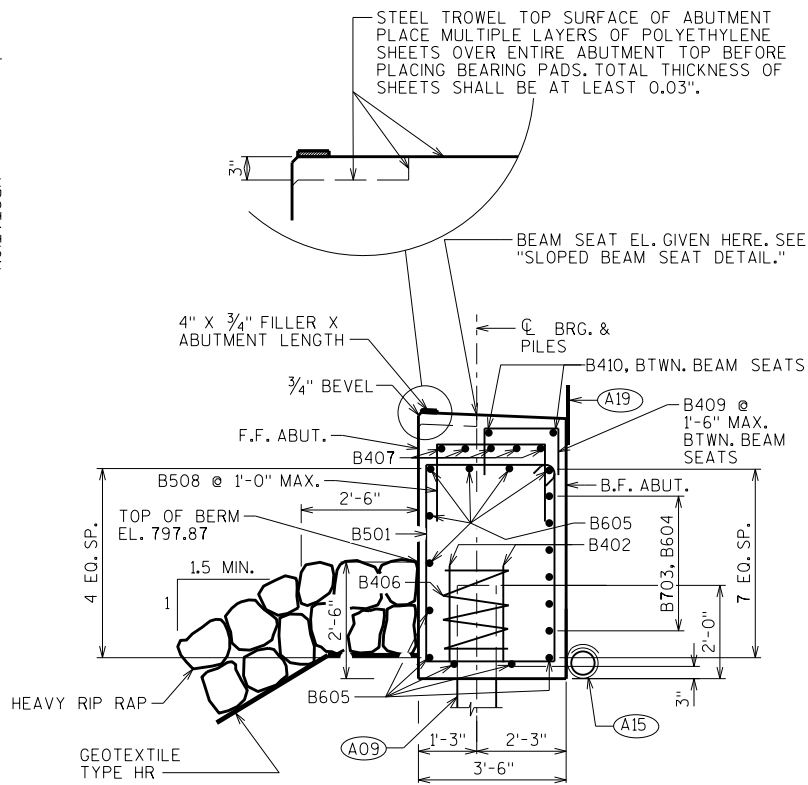
PLAN



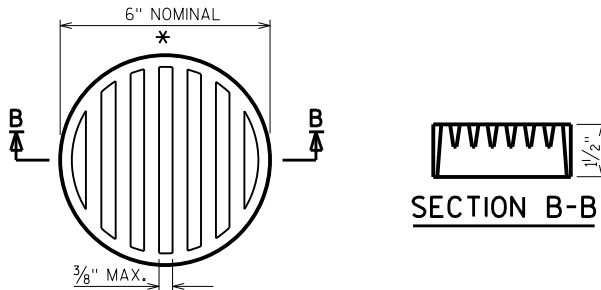
PILE PLAN



SLOPED BEAM SEAT DETAIL



SECTION THRU BODY



RODENT SHIELD DETAIL

☆ MEASURED AT CL BRG.

○ INDICATES GIRDER NUMBER

(A09) SUPPORT ABUTMENT ON 10 3/4" DIA. X 0.5" CIP CONCRETE PILING, ESTIMATED 65'-0" LONG WITH A REQUIRED DRIVING RESISTANCE OF 150 TONS PER PILE. PILE POINTS REQUIRED.

(A15) PIPE UNDERDRAIN WRAPPED (6-INCH). SLOPE 0.5% MIN. TO SUITABLE DRAINAGE. RODENT SHIELD REQUIRED.

(A17) 1/2" FILLER (INCLUDED IN WING LENGTH): SEAL ALL EXPOSED HORIZ. & VERT. SURFACES OF 1/2" FILLER WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER. (1" DEEP AND HOLD 1/8" BELOW SURFACE OF CONCRETE). EXTEND SEALER 3" BELOW GUTTER LINE AT INSIDE FACE.

(A18) 3/4" CORK FILLER UP VERT. BEAM SEAT FACES THAT RUN PARALLEL WITH GIRDER.

(A19) 18" (RMW) RUBBERIZED MEMBRANE WATERPROOFING SEAL ALL HORIZ. & VERT. JOINTS AT BACKFACE.

* DIMENSIONS ARE APPROXIMATE. THE GRATE IS SIZED TO FIT INTO A PIPE COUPLING. ORIENT SO SLOTS ARE VERTICAL.

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

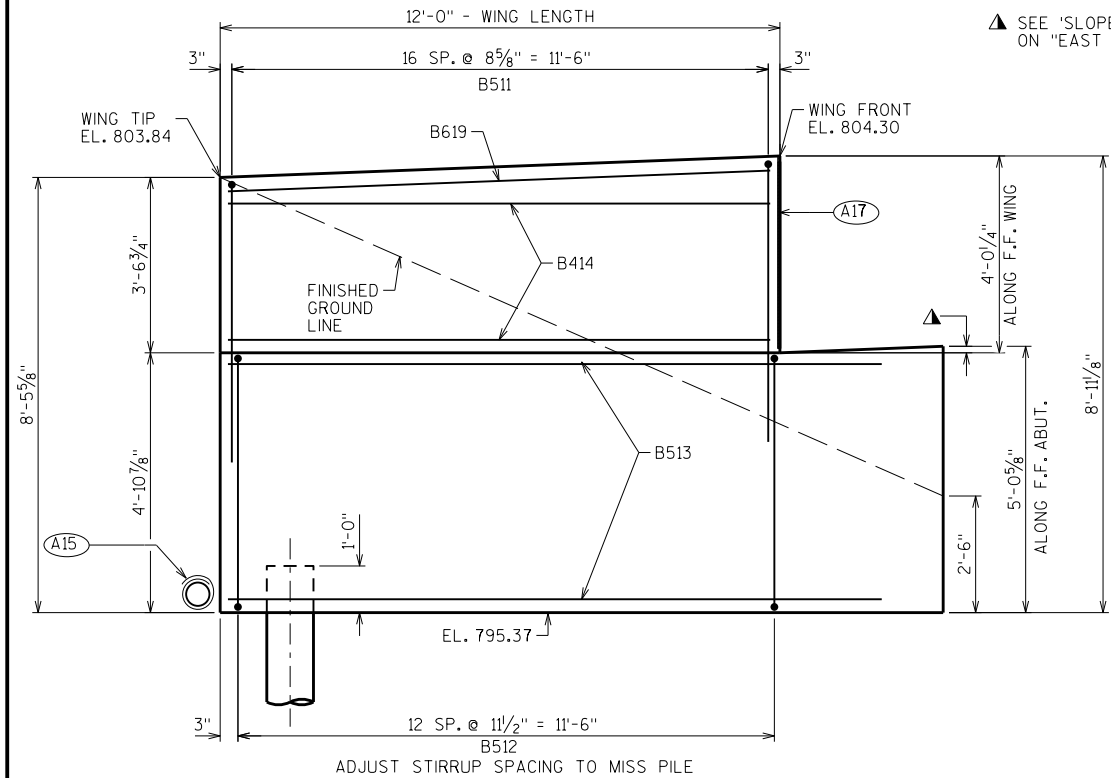
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NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE B-67-315			
DRAWN BY		MJK	PLANS CKD. SAD
EAST ABUTMENT		SHEET 6	

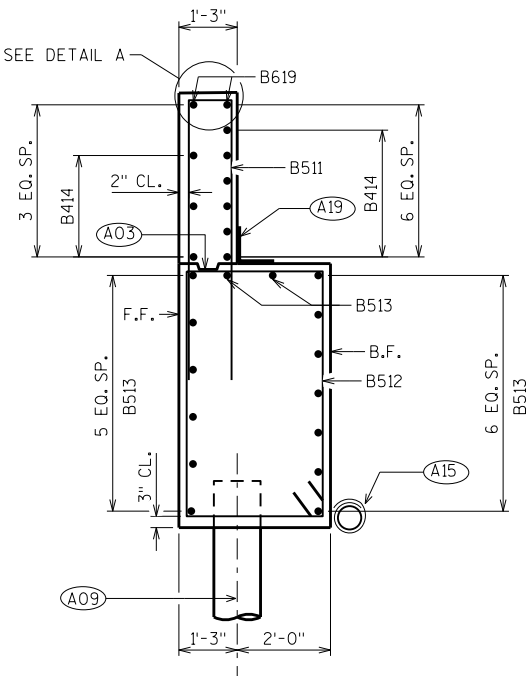
BILL OF BARS

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

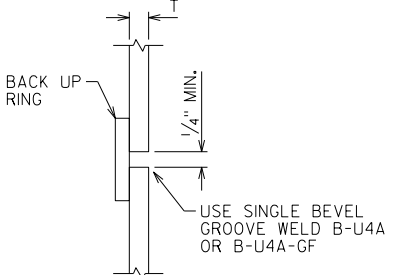
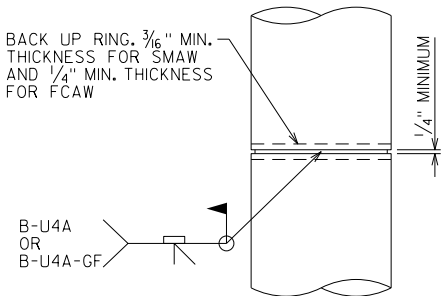
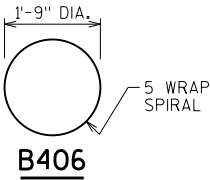
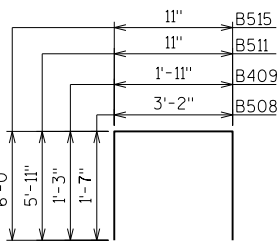
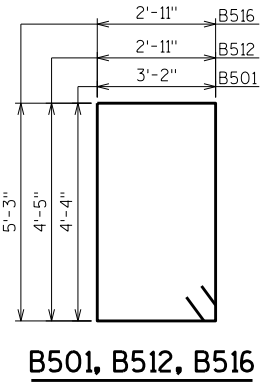
BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	BAR SERIES	LOCATION
B501		62	15'-8"	X		BODY - STIRRUPS
B402		22	2'-3"			PILES - 2 PER BODY PILE
B703		12	12'-0"	X		BODY - HORIZONTAL - B.F.
B604		6	31'-11"			BODY - HORIZONTAL - B.F.
B605		11	50'-0"			BODY - HORIZONTAL
B406		11	28'-0"	X		BODY - VERTICAL - 1 PER BODY PILES
B407		5	31'-3"			BODY - HORIZ. OVER GIRS. 3-6
B508		32	6'-1"	X		BODY - TOP - VERT. OVER GIRS. 3-6
B409		25	4'-3"	X		BODY - VERTICAL - BTWN. BEAM SEATS
B410		10	6'-9"			BODY - HORIZONTAL - BTWN. BEAM SEATS
B511	X	17	12'-6"	X		WING 3 - VERTICAL - UPPER WING
B512	X	13	15'-4"	X		WING 3 - STIRRUPS - LOWER WING
B513	X	15	13'-7"			WING 3 - HORIZONTAL - LOWER WING
B414	X	9	11'-7"			WING 3 - HORIZONTAL - UPPER WING
B515	X	17	12'-8"	X		WING 4 - VERTICAL - UPPER WING
B516	X	13	17'-0"	X		WING 4 - STIRRUPS - LOWER WING
B517	X	16	13'-7"			WING 4 - HORIZONTAL - LOWER WING
B418	X	9	11'-7"			WING 4 - HORIZONTAL - UPPER WING
B619	X	2	11'-7"			WING 3 - HORIZONTAL - UPPER WING
B620	X	2	11'-7"			WING 4 - HORIZONTAL - UPPER WING



WING 3 ELEVATION



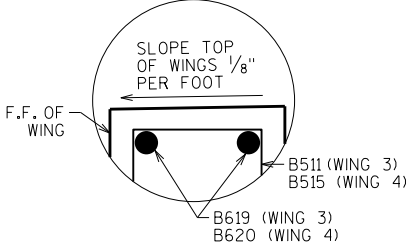
WING 3 SECTION



CAST-IN-PLACE 'PIPE PILE'

C.I.P. PILE WELD DETAIL

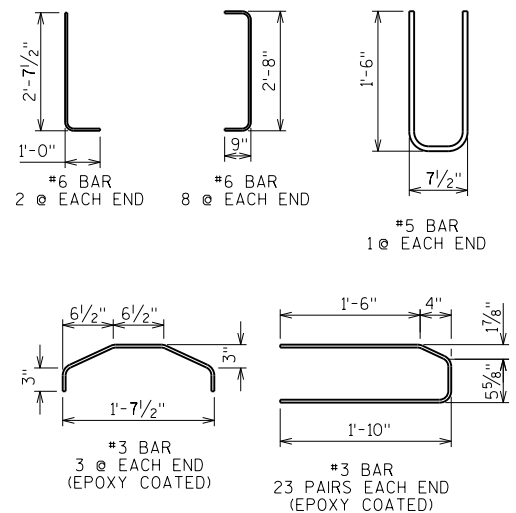
PILE DETAILS



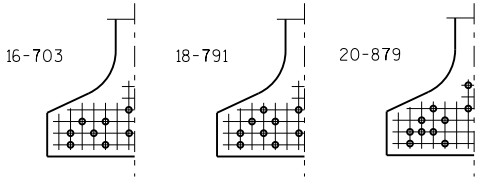
- (A03) OPTIONAL CONST. JOINT: KEYWAY FORMED BY BEVELED 2 x 6, (18" R.M.W. @ B.F. & 3/4" "V" GROOVE @ F.F. IF JOINT IS USED).
- (A09) SUPPORT ABUTMENT ON 10 3/4" DIA. X 0.5" CIP CONCRETE PILING, ESTIMATED 65'-0" LONG WITH A REQUIRED DRIVING RESISTANCE OF 150 TONS PER PILE. PILE POINTS REQUIRED.
- (A15) PIPE UNDERDRAIN WRAPPED (6-INCH), SLOPE 0.5% MIN. TO SUITABLE DRAINAGE. RODENT SHIELD REQUIRED.
- (A17) 1/2" FILLER (INCLUDED IN WING LENGTH); SEAL ALL EXPOSED HORIZ. & VERT. SURFACES OF 1/2" FILLER WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER. (1" DEEP AND HOLD 1/8" BELOW SURFACE OF CONCRETE). EXTEND SEALER 3" BELOW GUTTER LINE AT INSIDE FACE.
- (A19) 18" (RMW) RUBBERIZED MEMBRANE WATERPROOFING SEAL ALL HORIZ. & VERT. JOINTS AT BACKFACE.

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE B-67-315			
DRAWN BY		MJK	PLANS CKD. SAD
EAST ABUTMENT DETAILS		SHEET 7	

FOR DIAPHRAGM INSERT & CONNECTION DETAILS SEE
"STEEL DIAPHRAGM" SHEET.

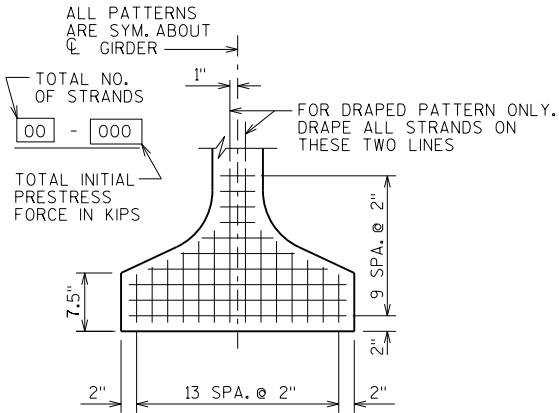
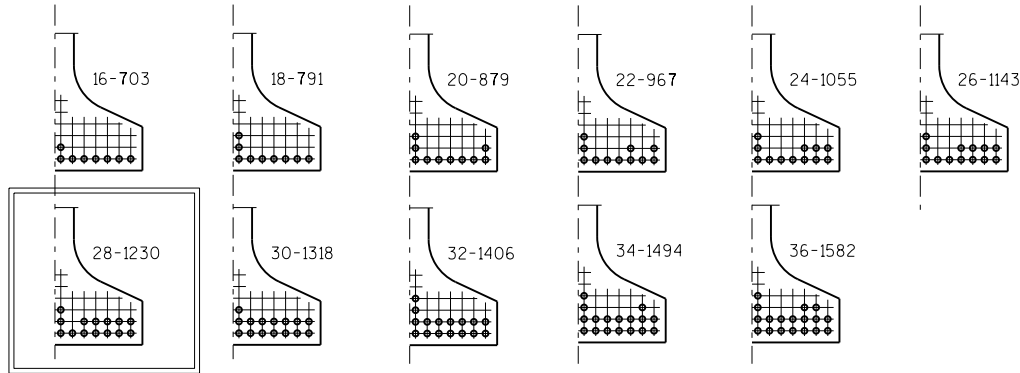
[illegible]

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE B-67-315			
DRAWN BY		MJK	PLANS CK'D. SAD
36W" PRESTRESSED GIRDER DETAILS 1		SHEET 8	

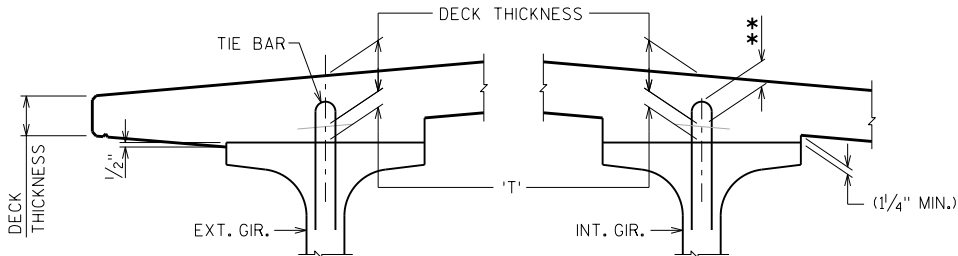


**STANDARD ARRANGEMENTS TO RAISE CENTER OF GRAVITY
TO AVOID DRAPING OF STRANDS**

0.6"φ STRANDS



TYP. STRAND PATTERN



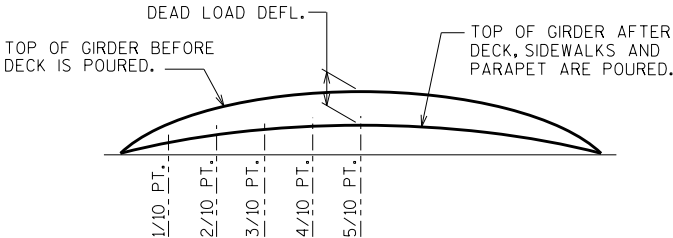
DECK HAUNCH DETAIL

IF 1/4" MINIMUM HAUNCH HEIGHT AT EDGE OF GIRDER CANNOT BE MAINTAINED, THE GRADE LINE MAY BE REVISED BY THE ENGINEER AT THE OPTION OF THE CONTRACTOR, THE PLAN DECK THICKNESS SHALL BE HELD. NOTIFY THE STRUCTURES SECTION IF THE GRADE LINE IS RAISED FROM THE PLAN PROFILE BY MORE THAN 1/2" OR, ** IF 3" MINIMUM DECK EMBEDMENT OF TIE BAR CANNOT BE OBTAINED.

TO DETERMINE 'T', ELEV. OF TOP OF GIR'S. AT C/GIRDER OF SUBSTRUCTURE UNITS & AT 1/10 POINTS OF EACH SPAN SHALL BE TAKEN. THEN FOLLOW THIS PROCESS:

TOP OF DECK ELEV. AT FINAL GRADE
- TOP OF GIRDER ELEVATION
+ DEAD LOAD DEFLECTION
- DECK THICKNESS
= HAUNCH HEIGHT 'T'

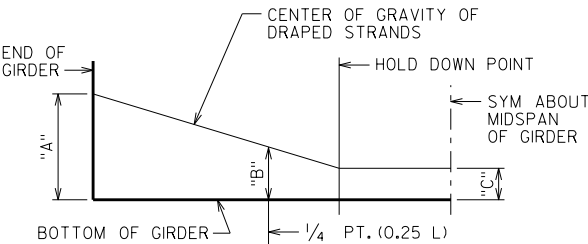
NOTE: AN AVERAGE HAUNCH ('T') OF 3" WAS USED IN THE QUANTITY "CONCRETE MASONRY BRIDGES".



DEAD LOAD DEFLECTION DIAGRAM

ARRANGEMENT AT C/SPAN - FOR GIRDERS WITH DRAPED STRANDS

0.6"φ STRANDS



DRAPED STRAND PROFILE

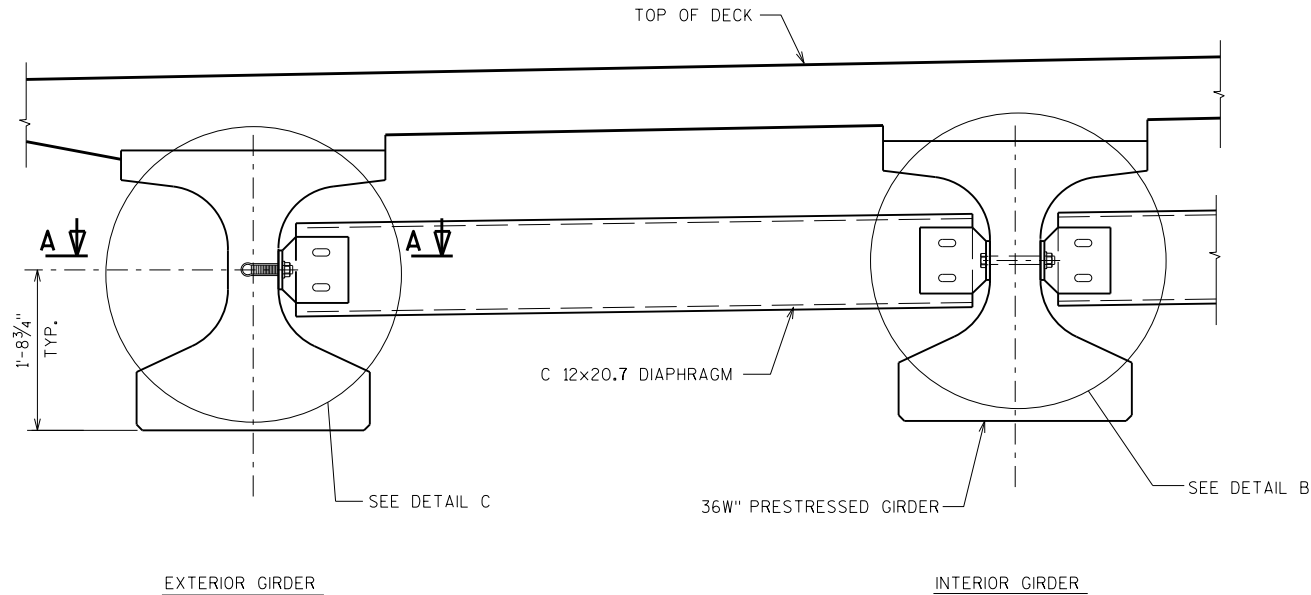
*THE THEORETICAL INITIAL CAMBER VALUE AT THE TIME OF STRAND RELEASE AT MIDSPAN MULTIPLIED BY A FACTOR OF 1.4 TO ACCOUNT FOR CAMBER GROWTH FROM THE TIME OF STRAND RELEASE TO JOBSITE PLACEMENT.

SPAN	CAMBER (IN.) *
1	2.87

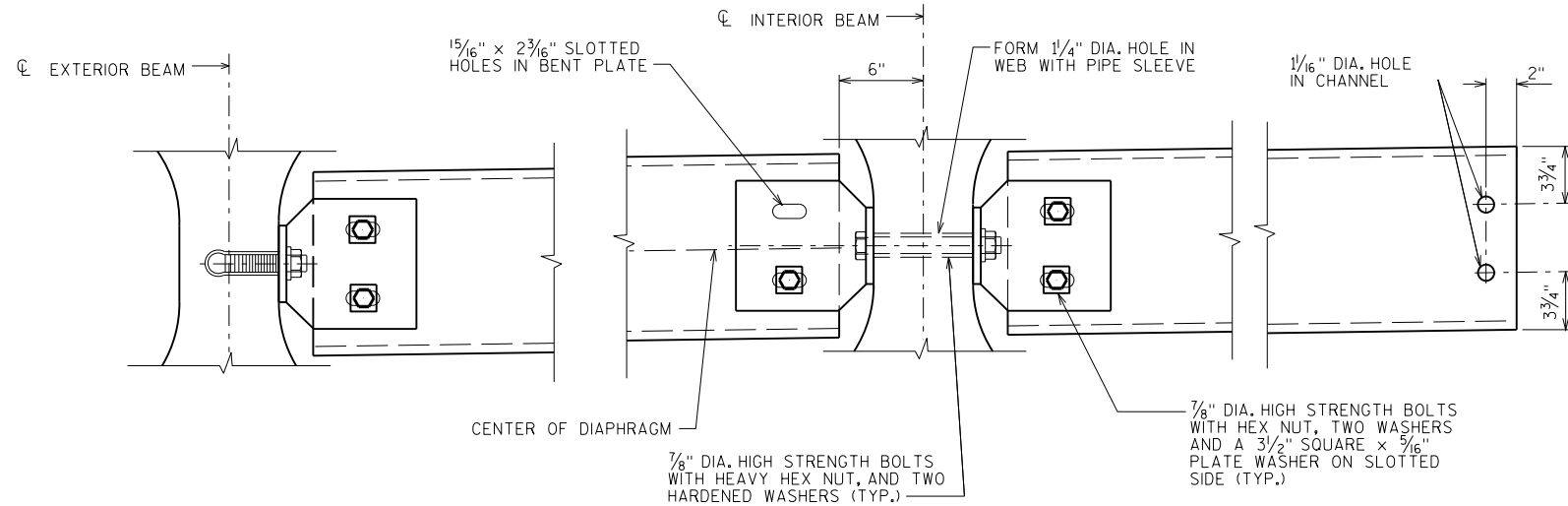
THESE VALUES ARE NOT TO BE USED IN DETERMINING 'T'.
USE ACTUAL GIRDER SHOTS.
THESE VALUES ARE FOR INFORMATIONAL PURPOSES ONLY.

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE B-67-315			
DRAWN BY		MJK	PLANS CK'D. SAD
36W" PRESTRESSED GIRDER DETAILS 2			SHEET 9

○ INDICATES GIRDER NUMBER

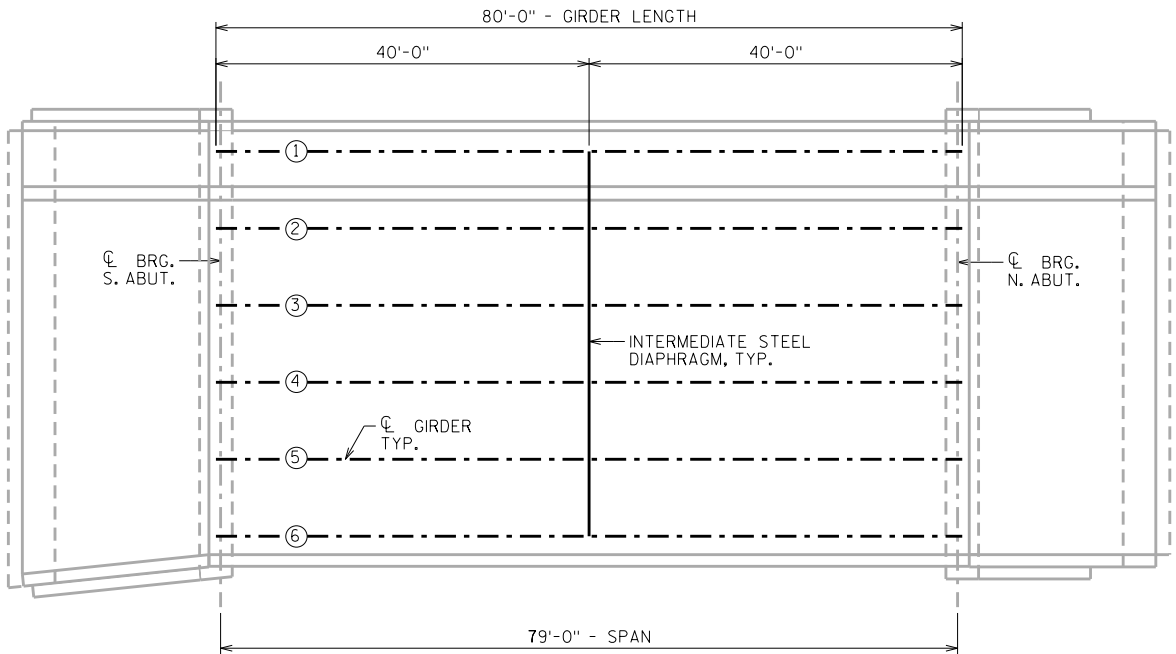


PART TRANSVERSE SECTION AT DIAPHRAGM



DETAIL C

DETAIL B



DIAPHRAGM FRAMING PLAN

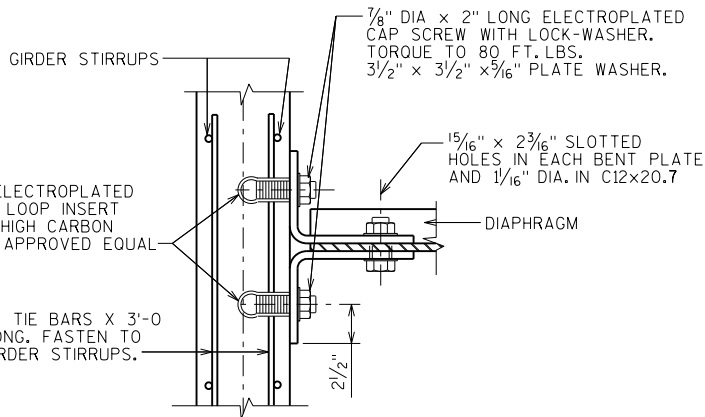
NOTES

ALL DIAPHRAGM MATERIAL NOT EMBEDDED IN THE CONCRETE GIRDER SHALL BE PAID FOR AT THE UNIT PRICE BID FOR "STEEL DIAPHRAGMS B-67-315", EACH.

EACH DIAPHRAGM BETWEEN GIRDERS SHALL CONSTITUTE ONE UNIT.

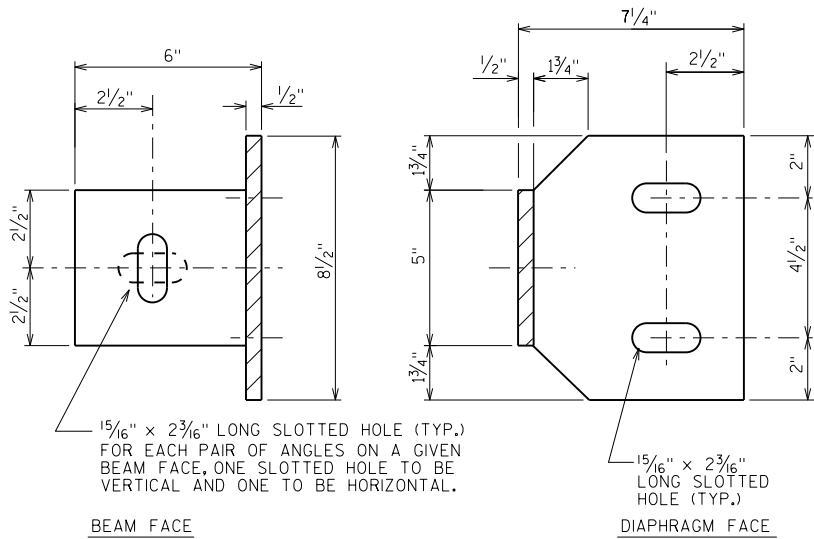
ALL DIAPHRAGM STRUCTURAL STEEL SHALL BE ASTM A709 GRADE 36. ALL BOLTS, NUTS AND WASHERS SHALL BE ASTM A325 TYPE 1.

ALL DIAPHRAGM STRUCTURAL STEEL SHOWN SHALL BE HOT-DIPPED GALVANIZED. ALL BOLTS, NUTS AND WASHERS SHALL BE HOT-DIPPED GALVANIZED IN ACCORDANCE WITH ASTM A153 CLASS C. GALVANIZED NUTS SHALL BE TAPPED OVERSIZE IN ACCORDANCE WITH THE REQUIREMENTS OF ASTM A563 AND SHALL MEET THE REQUIREMENTS OF SUPPLEMENTARY REQUIREMENT S1 OF ASTM A563, LUBRICANT AND TEST FOR COATED NUTS.



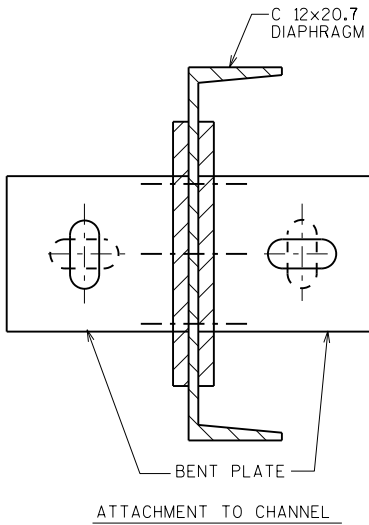
SECTION A-A

(FOR EXTERIOR ATTACHMENT)



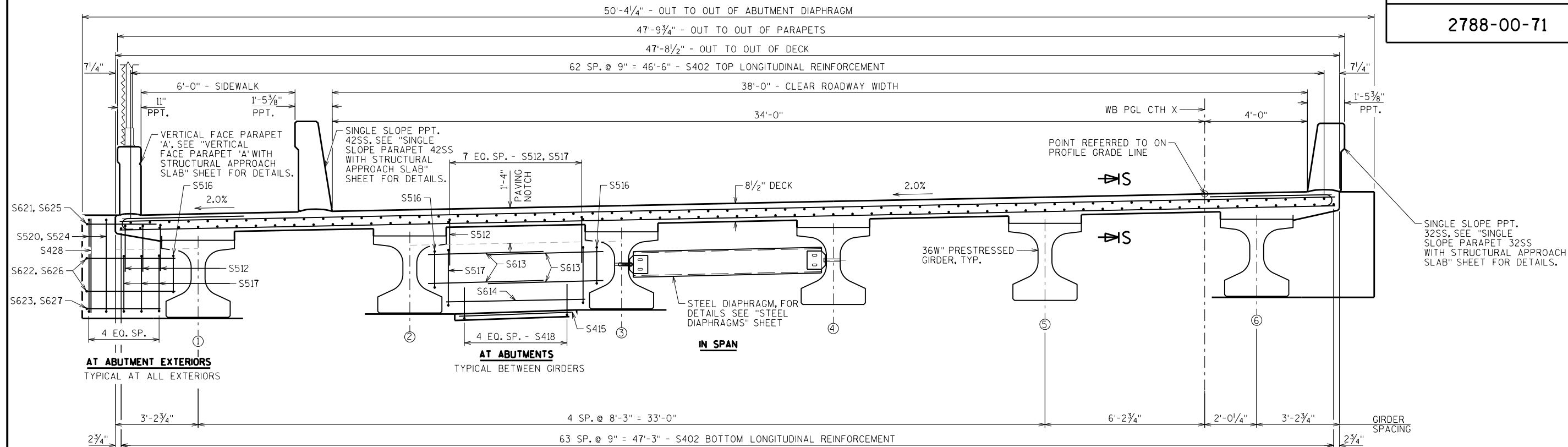
BEAM FACE

DIAPHRAGM FACE



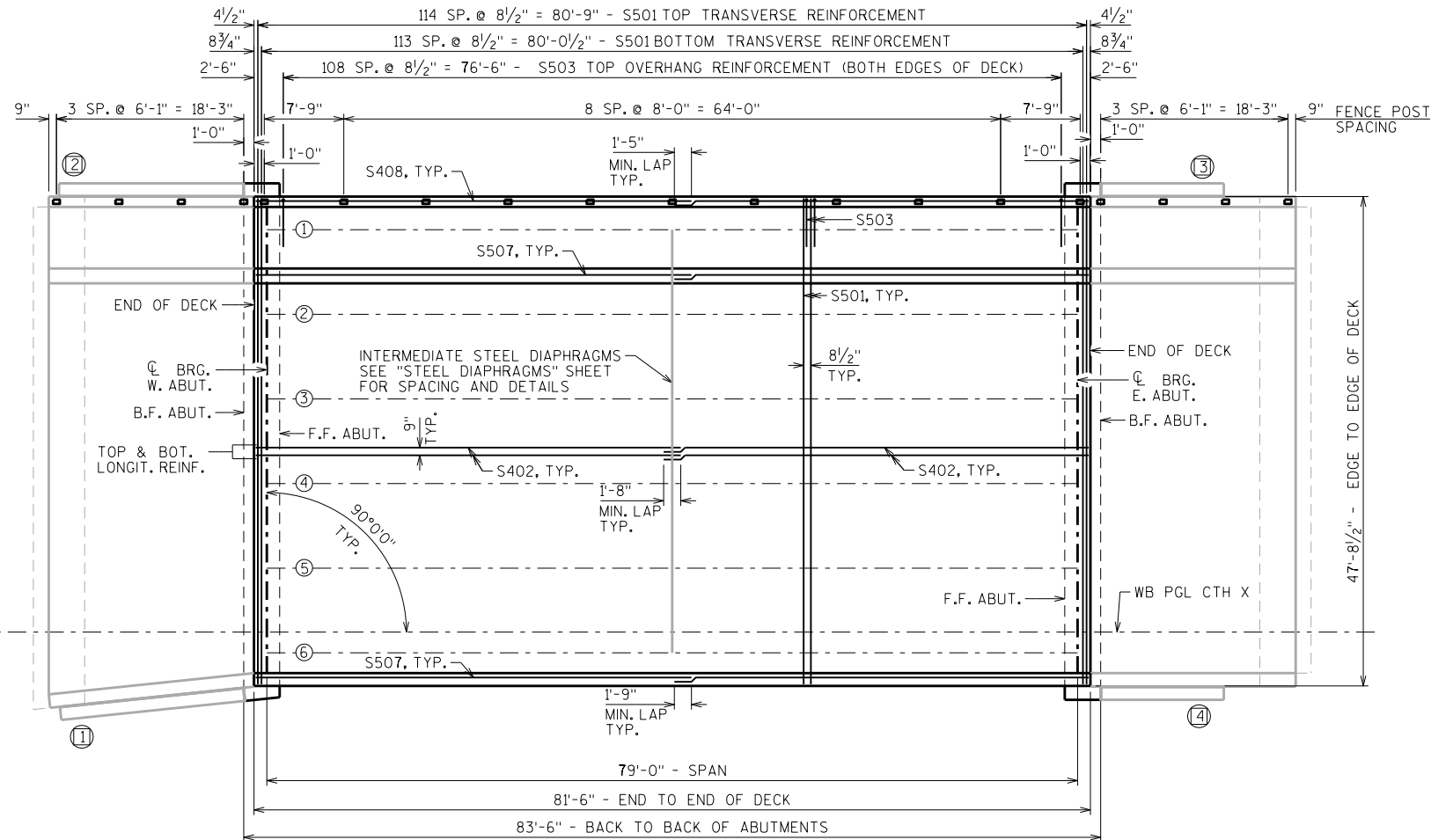
ATTACHMENT TO CHANNEL

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE B-67-315			
DRAWN BY		MJK	PLANS CKD. SAD
STEEL DIAPHRAGMS			SHEET 10

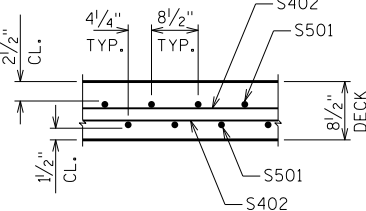


CROSS SECTION THRU ROADWAY

LOOKING EAST

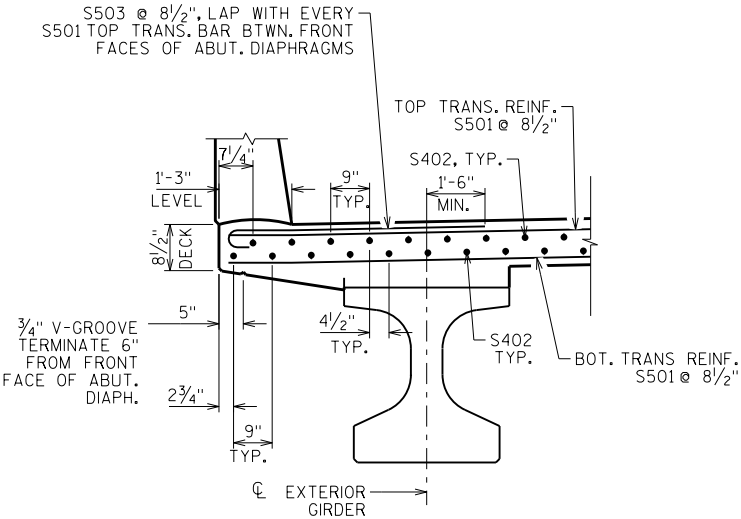


PLAN



SECTION S-S

- INDICATES GIRDER NUMBER
- ⊙ INDICATES WING NUMBER

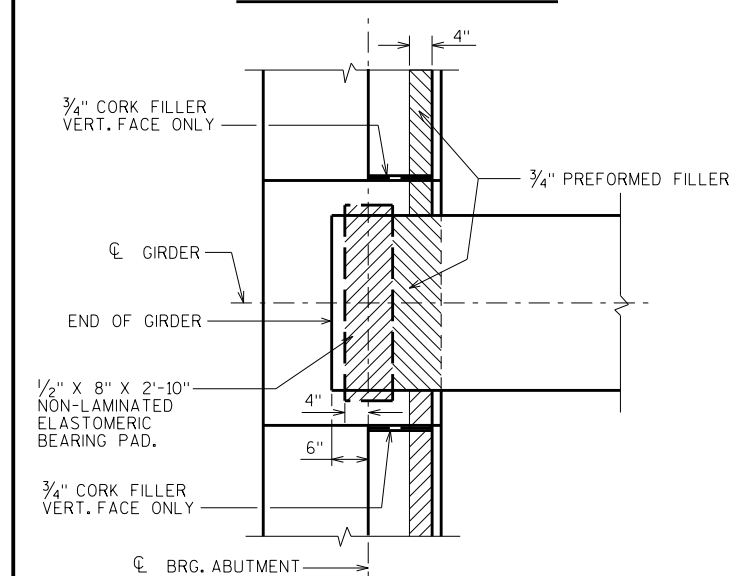


EDGE OF DECK DETAIL

(TYP. AT BOTH EDGES)

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE B-67-315			
DRAWN BY		MJK	PLANS CK'D. SAD
SUPERSTRUCTURE		SHEET 11	

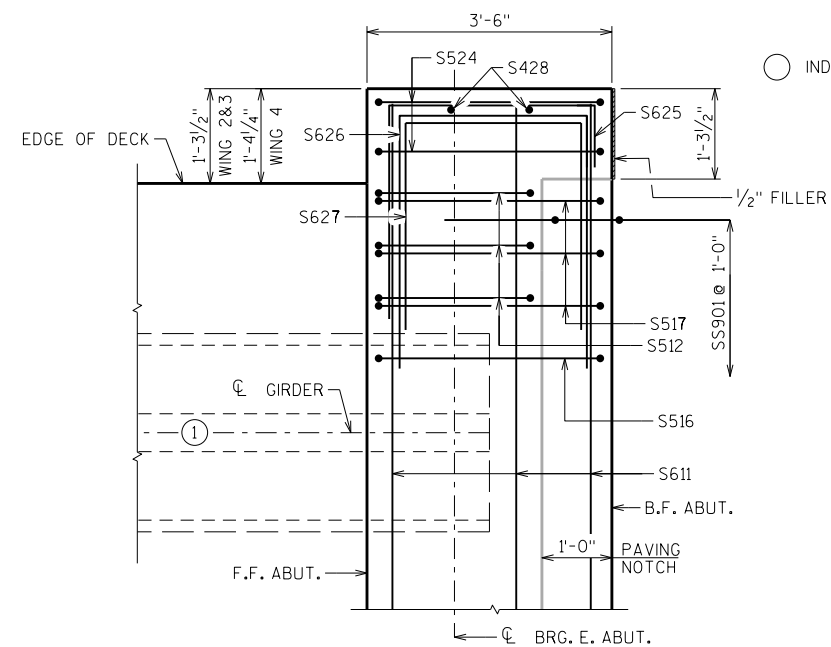
PART LONGIT. SECTION



BEARING PAD DETAIL

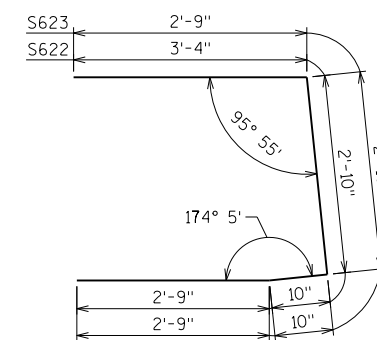
TOP OF DECK ELEVATIONS

	☪ BRG. W. ABUT.	1/10 PT.	2/10 PT.	3/10 PT.	4/10 PT.	5/10 PT.	6/10 PT.	7/10 PT.	8/10 PT.	9/10 PT.	☪ BRG. E. ABUT.
N. EOD	807.45	807.14	806.84	806.53	806.23	805.92	805.62	805.31	805.00	804.70	804.39
GIRDER 1	807.49	807.18	806.88	806.57	806.27	805.96	805.66	805.35	805.04	804.74	804.43
GIRDER 2	807.65	807.35	807.04	806.74	806.43	806.13	805.82	805.52	805.21	804.90	804.60
GIRDER 3	807.82	807.51	807.21	806.90	806.60	806.29	805.99	805.68	805.37	805.07	804.76
GIRDER 4	807.98	807.68	807.37	807.07	806.76	806.46	806.15	805.85	805.54	805.23	804.93
GIRDER 5	808.15	807.84	807.54	807.23	806.93	806.62	806.32	806.01	805.70	805.40	805.09
GIRDER 6	808.31	808.01	807.70	807.40	807.09	806.79	806.48	806.18	805.87	805.56	805.26
S. EOD	808.35	808.05	807.74	807.44	807.13	806.83	806.52	806.21	805.91	805.60	805.30

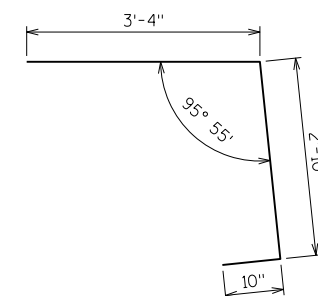


PLAN - EXTERIOR ABUTMENT DIAPHRAGM

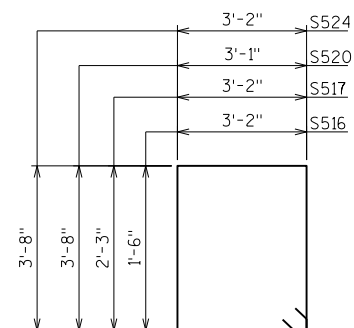
WING 3 SHOWN
WINGS 2 & 4 SIMILAR



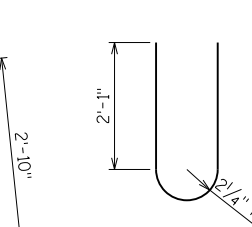
S622, S623



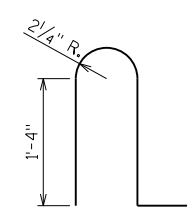
S621



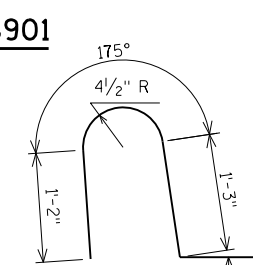
S516, S517, S520, S524



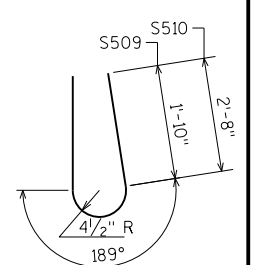
S506



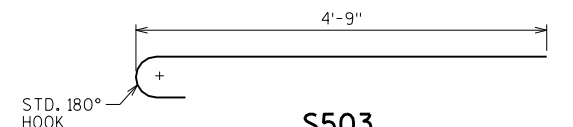
S505



S504



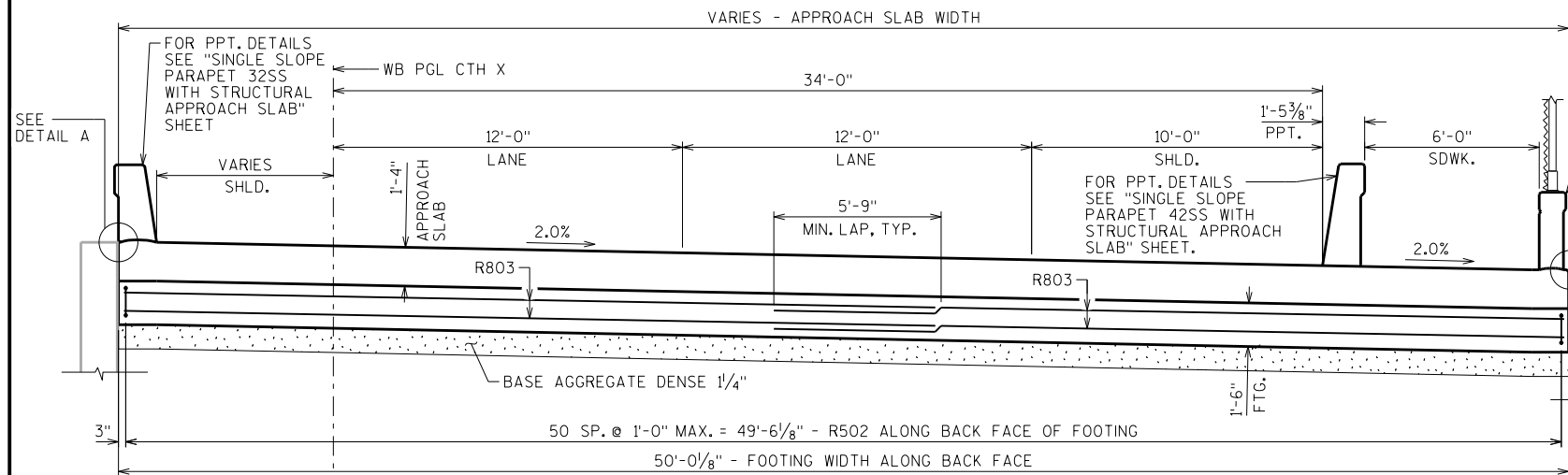
S509, S510



S503

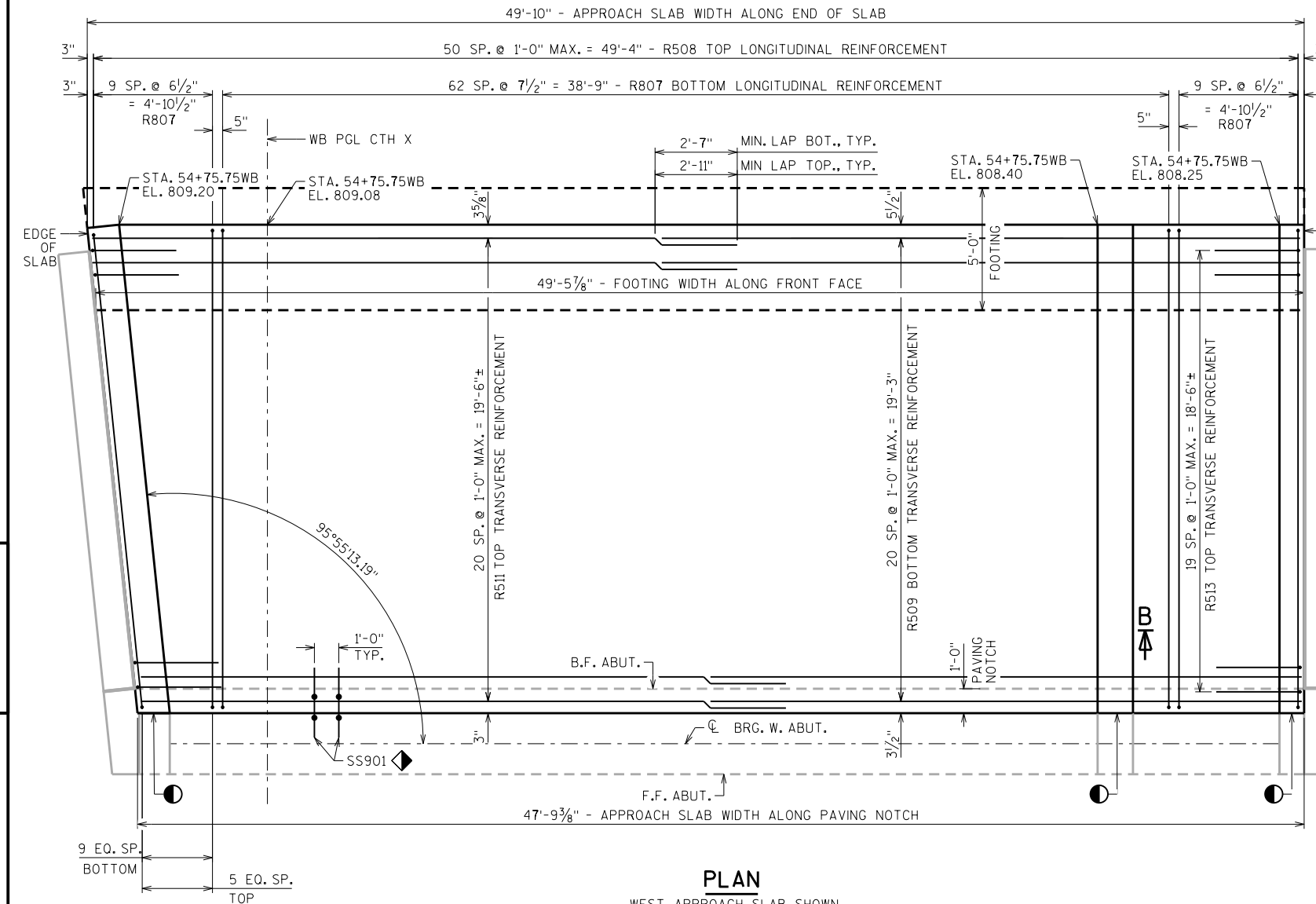
NO.	DATE	REVISION			BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION					
STRUCTURE B-67-315					
DRAWN BY		MJK		PLANS CK'D. SAD	
SUPERSTRUCTURE DETAILS				SHEET 12	

SCALE = 1.33333



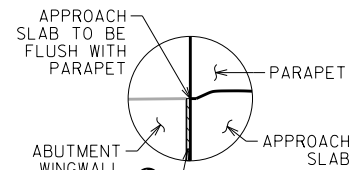
CROSS SECTION THRU ROADWAY

WEST APPROACH SLAB SHOWN
SHOWING FOOTING REINFORCEMENT ONLY
LOOKING WEST

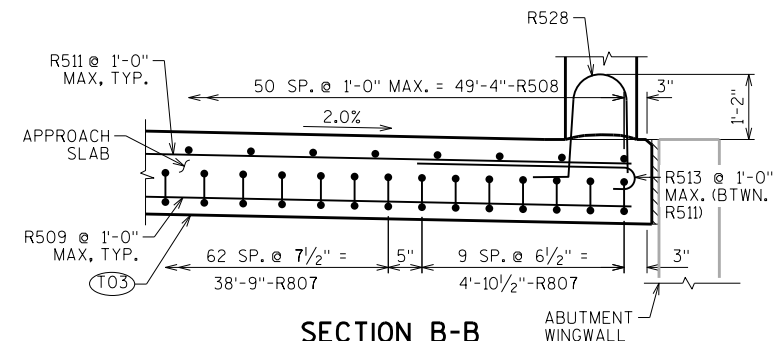


PLAN

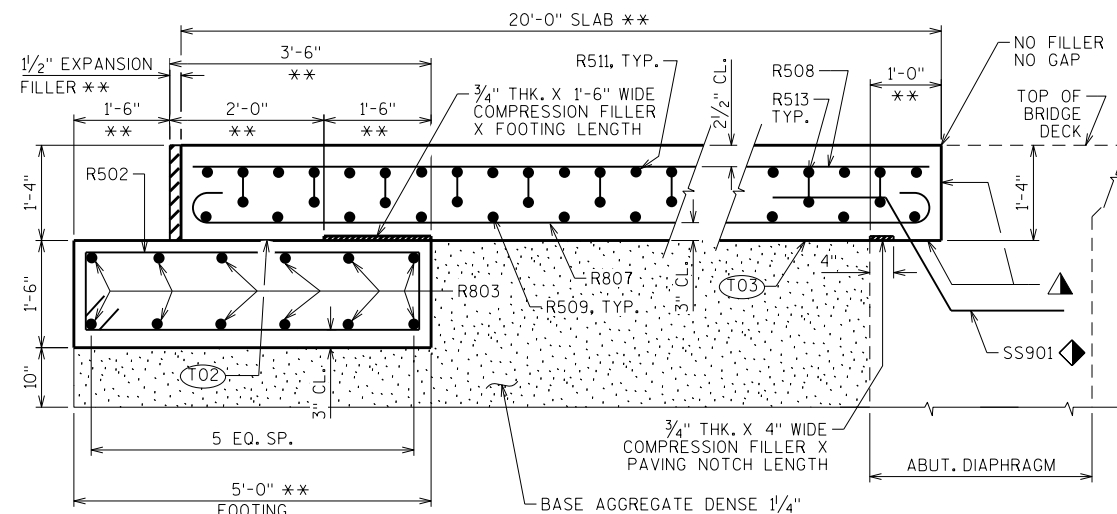
WEST APPROACH SLAB SHOWN
FOOTING REINFORCEMENT NOT SHOWN



DETAIL A



SECTION B-B



SECTION THRU APPROACH SLAB

1/2" FILLER (INCLUDED IN PARAPET LENGTH), AND PLACED BTWN. ABUT. WINGWALL AND APPROACH SLAB; SEAL ALL EXPOSED HORIZ. & VERT. SURFACES OF 1/2" FILLER WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER (1" DEEP AND HOLD 1/8" BELOW SURFACE OF CONCRETE).

T02 STEEL TROWEL TOP SURFACE OF FOOTING AND PLACE MULTIPLE LAYERS (0.03" MIN. TOTAL THICKNESS) OF POLYETHYLENE SHEETS OVER THE ENTIRE TOP OF FOOTING

T03 PLACE MULTIPLE LAYERS (0.03" MIN. TOTAL THICKNESS) OF POLYETHYLENE SHEETS OVER THE ENTIRE TOP OF SUBGRADE. POLYETHYLENE SHEETS SHALL BE INCIDENTAL TO BID ITEM "CONCRETE MASONRY BRIDGES".

** MEASURED NORMAL TO ABUTMENT CL.

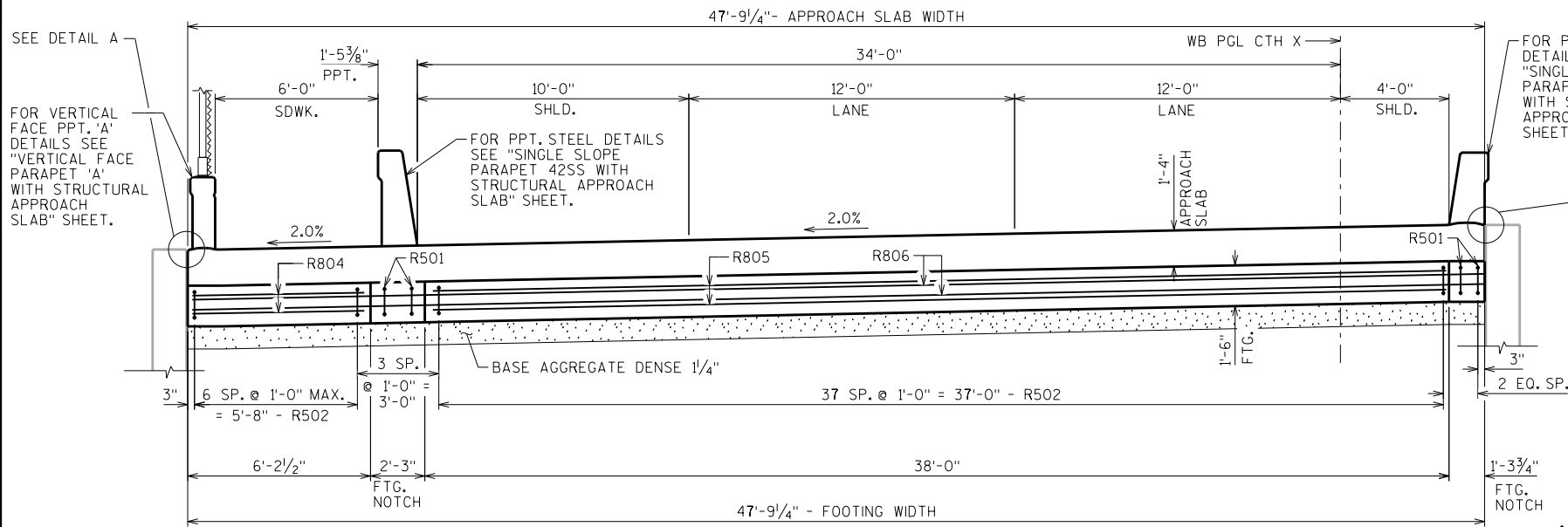
APPLY PROTECTIVE SURFACE TREATMENT TO PAVING NOTCH SURFACES PRIOR TO POURING STRUCTURAL APPROACH SLAB.

STAINLESS STEEL, SEE "SUPERSTRUCTURE DETAILS" SHEET FOR BILL OF BARS.

DESIGN DATA

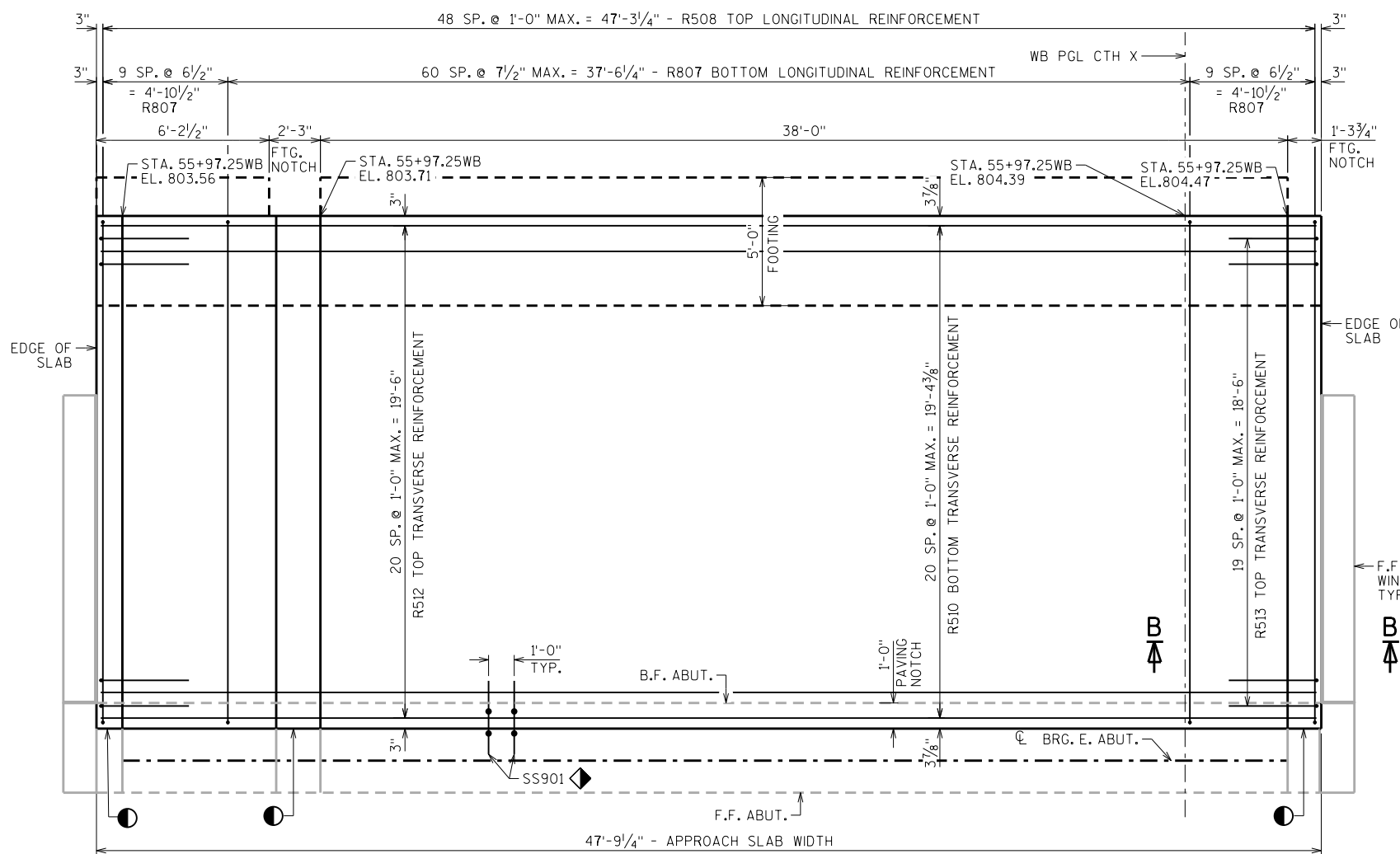
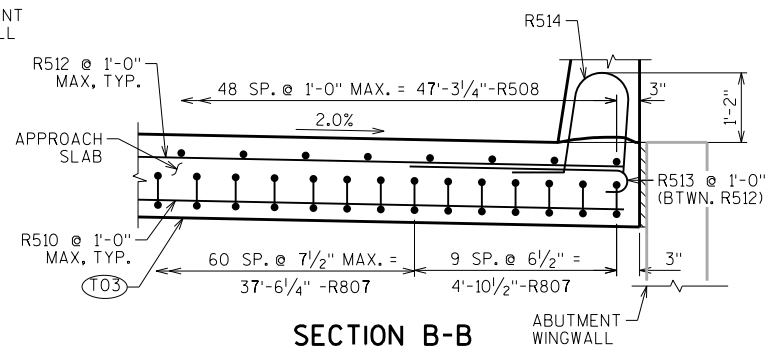
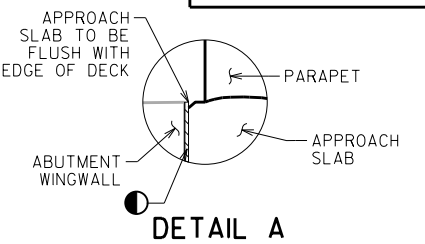
CONCRETE STRENGTH, f'c: 4,000 P.S.I.
BAR STEEL REINFORCEMENT, GRADE 60, f_y: 60,000 P.S.I.
ALLOWABLE SOIL BEARING PRESSURE: 2,000 P.S.F.

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE B-67-315			
DRAWN BY		MJK	PLANS CKD. SAD
WEST APPROACH SLAB		SHEET 13	



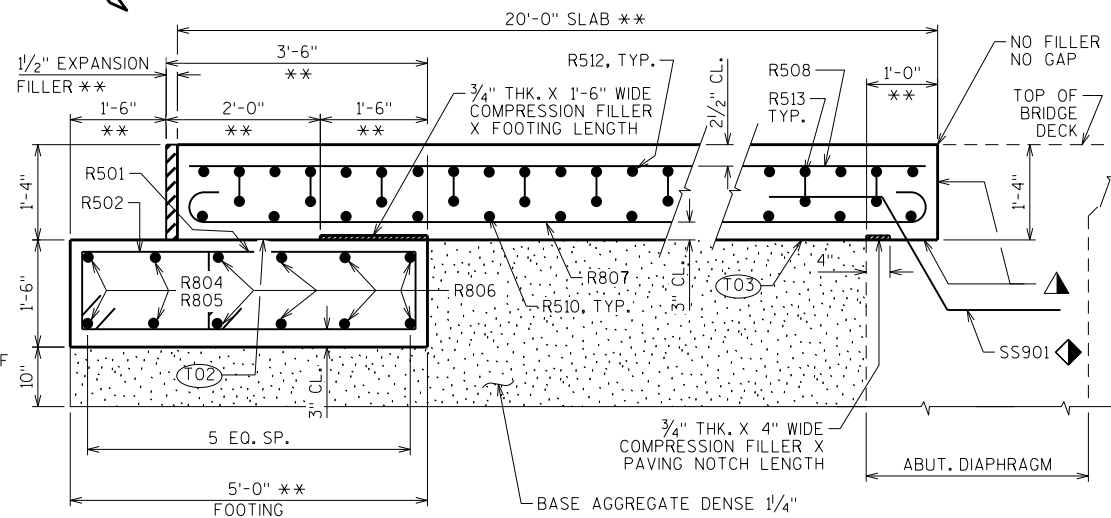
CROSS SECTION THRU ROADWAY

EAST APPROACH SLAB SHOWN
SHOWING FOOTING REINFORCEMENT ONLY
LOOKING EAST



PLAN

EAST APPROACH SLAB SHOWN
FOOTING REINFORCEMENT NOT SHOWN



** MEASURED NORMAL TO ABUTMENT CL.

1/2" FILLER (INCLUDED IN PARAPET LENGTH), AND PLACED BTWN. ABUT. WINGWALL AND APPROACH SLAB; SEAL ALL EXPOSED HORIZ. & VERT. SURFACES OF 1/2" FILLER WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER. (1" DEEP AND HOLD 1/8" BELOW SURFACE OF CONCRETE).

T02 STEEL TROWEL TOP SURFACE OF FOOTING AND PLACE MULTIPLE LAYERS (0.03" MIN. TOTAL THICKNESS) OF POLYETHYLENE SHEETS OVER THE ENTIRE TOP OF FOOTING

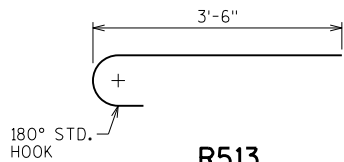
T03 PLACE MULTIPLE LAYERS (0.03" MIN. TOTAL THICKNESS) OF POLYETHYLENE SHEETS OVER THE ENTIRE TOP OF SUBGRADE. POLYETHYLENE SHEETS SHALL BE INCIDENTAL TO BID ITEM "CONCRETE MASONRY BRIDGES".

- APPLY PROTECTIVE SURFACE TREATMENT TO PAVING NOTCH SURFACES PRIOR TO POURING STRUCTURAL APPROACH SLAB.
- STAINLESS STEEL, SEE "SUPERSTRUCTURE DETAILS" SHEET FOR BILL OF BARS.

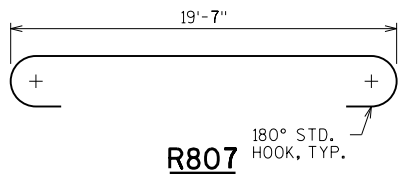
DESIGN DATA

CONCRETE STRENGTH, f'c: 4,000 P.S.I.
BAR STEEL REINFORCEMENT, GRADE 60, fy: 60,000 P.S.I.
ALLOWABLE SOIL BEARING PRESSURE: 2,000 P.S.F.

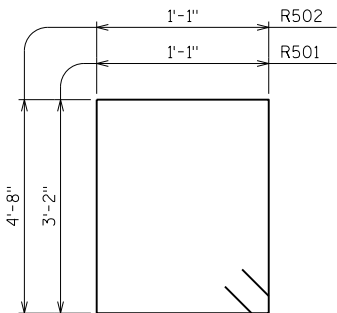
NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE B-67-315			
DRAWN BY		MJK	PLANS CKD. SAD
EAST APPROACH SLAB		SHEET 14	



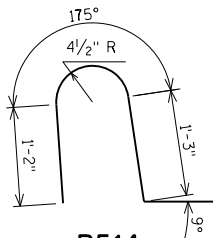
R513



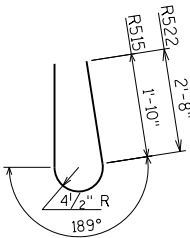
R807



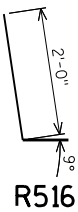
R501, R502



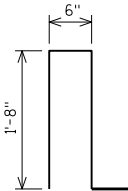
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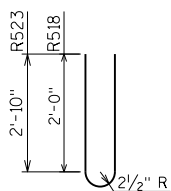
R515, R522



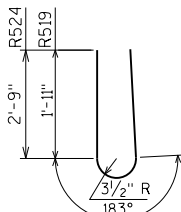
R516



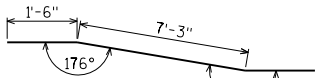
R517



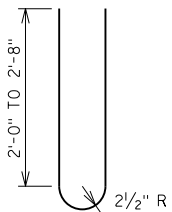
R518, R523



R519, R524



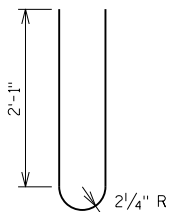
R520



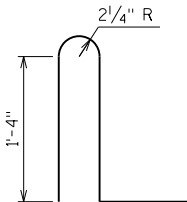
R525



R526



R527



R528

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

BILL OF BARS

BAR MARK	CMT	NO. REQUIRED		LENGTH	BENT	BAR SERIES	LOCATION
		EAST SLAB	WEST SLAB				
R501	X	4	0	9'-2"	X		APPROACH SLAB-FOOTING-STIRRUPS-NOTCHES
R502	X	45	51	12'-2"	X		APPROACH SLAB-FOOTING-STIRRUPS
R803	X	0	24	27'-9"			APPROACH SLAB-FOOTING-TRANS.
R804	X	4	0	5'-10"			APPROACH SLAB-FOOTING-TRANS.
R805	X	4	0	37'-8"			APPROACH SLAB-FOOTING-TRANS.
R806	X	8	0	47'-5"			APPROACH SLAB-FOOTING-TRANS.
R807	X	79	83	21'-5"	X		APPROACH SLAB-LONGIT.-BOTTOM
R508	X	49	51	19'-7"			APPROACH SLAB-LONGIT.-TOP
R509	X	0	42	26'-1"			APPROACH SLAB-TRANS.-BOTTOM
R510	X	21	0	47'-5"			APPROACH SLAB-TRANS.-BOTTOM
R511	X	0	42	26'-3"			APPROACH SLAB-TRANS.-TOP
R512	X	21	0	47'-5"			APPROACH SLAB-TRANS.-TOP
R513	X	40	40	4'-1"	X		APPROACH SLAB-TRANS.-TOP-EDGES
R514	X	34	34	4'-5"	X		PARAPET-VERT.-32SS & 42SS PPTS.
R515	X	17	17	5'-0"	X		PARAPET-VERT.-32SS PPT.
R516	X	23	23	2'-9"	X		PARAPET-VERT.-32SS & 42SS PPTS.
R517	X	34	34	4'-4"	X		PARAPET-VERT.-32SS & 42SS PPTS.
R518	X	11	11	4'-9"	X		PARAPET-VERT.-32SS PPT.
R519	X	6	6	4'-10"	X		PARAPET-VERT.-32SS PPT.
R520	X	2	2	19'-5"	X		PARAPET-HORIZ.-32SS & 42SS PPTS.
R521	X	10	10	19'-5"			PARAPET-HORIZ.-32SS & 42SS PPTS.
R522	X	17	17	6'-8"	X		PARAPET-VERT.-42SS PPT.
R523	X	5	5	6'-5"	X		PARAPET-VERT.-42SS PPT.
R524	X	6	6	6'-6"	X		PARAPET-VERT.-42SS PPT.
R525	X	6	6	5'-5"	X	▲	PARAPET-VERT.-42SS PPT.
R526	X	2	2	19'-5"	X		PARAPET-HORIZ.-42SS PPT.
R527	X	24	24	4'-10"	X		PARAPET-VERT.-VERT. FACE PPT.
R528	X	24	24	4'-0"	X		PARAPET-VERT.-VERT. FACE PPT.
R429	X	6	6	19'-6"			PARAPET-HORIZ.-VERT. FACE PPT.

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

BAR SERIES TABLE

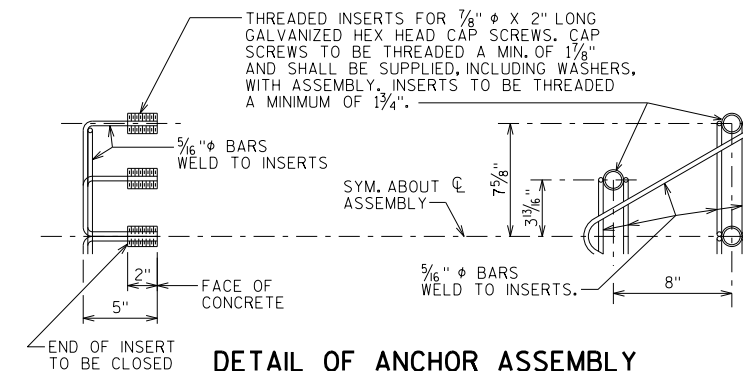
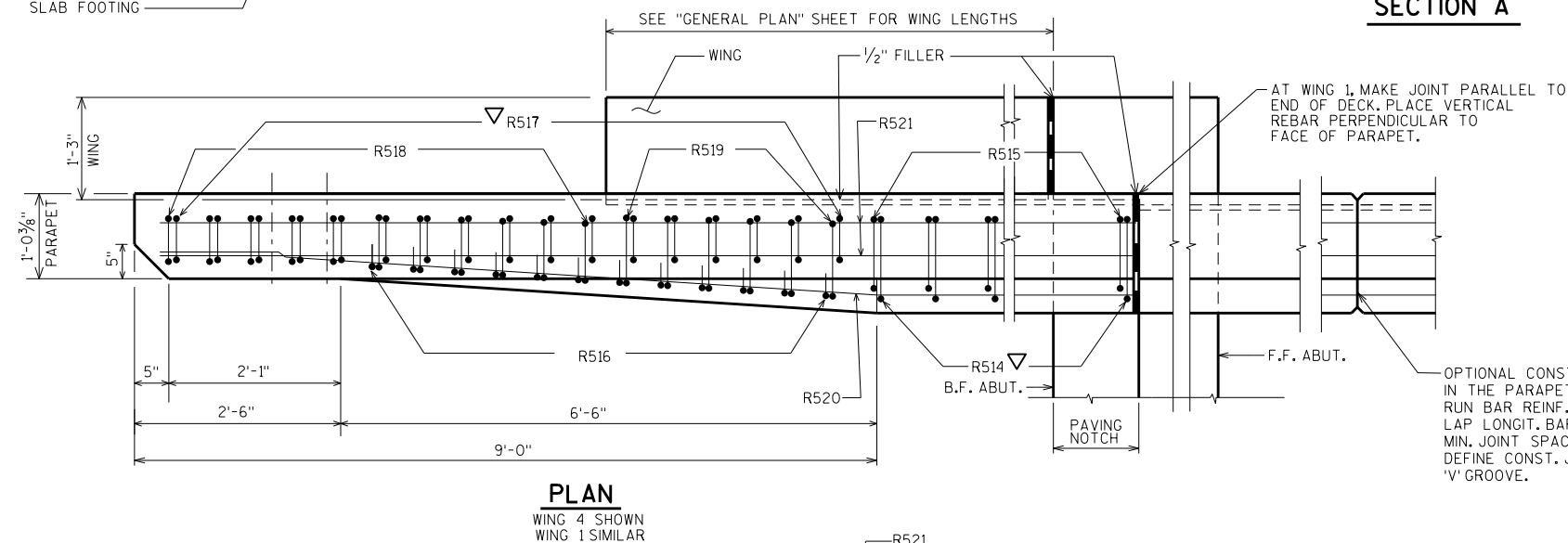
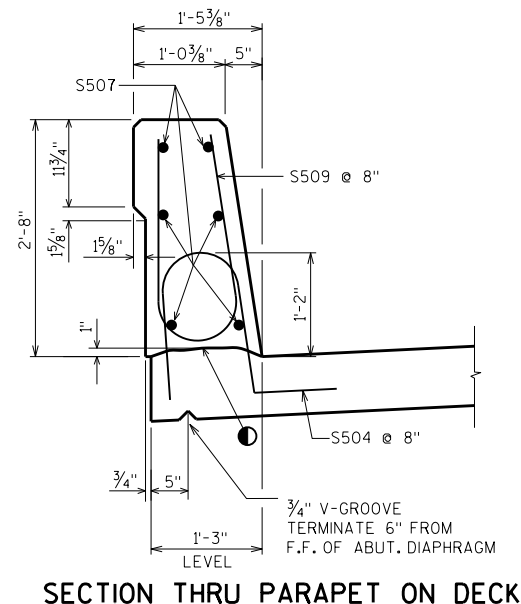
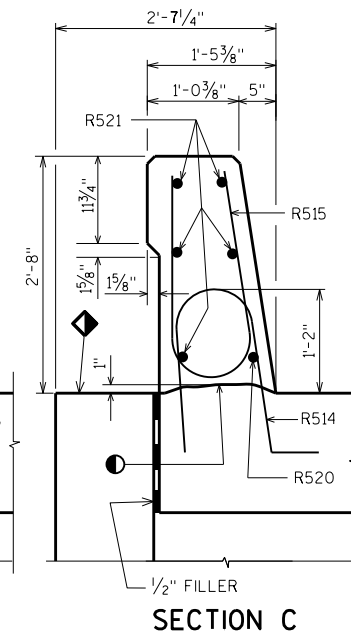
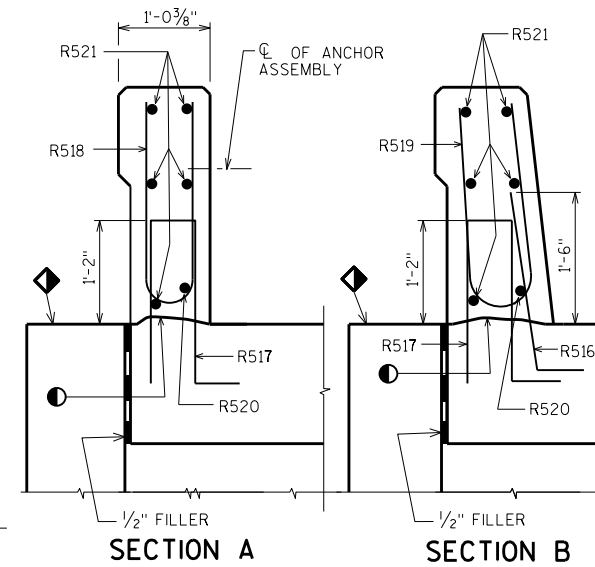
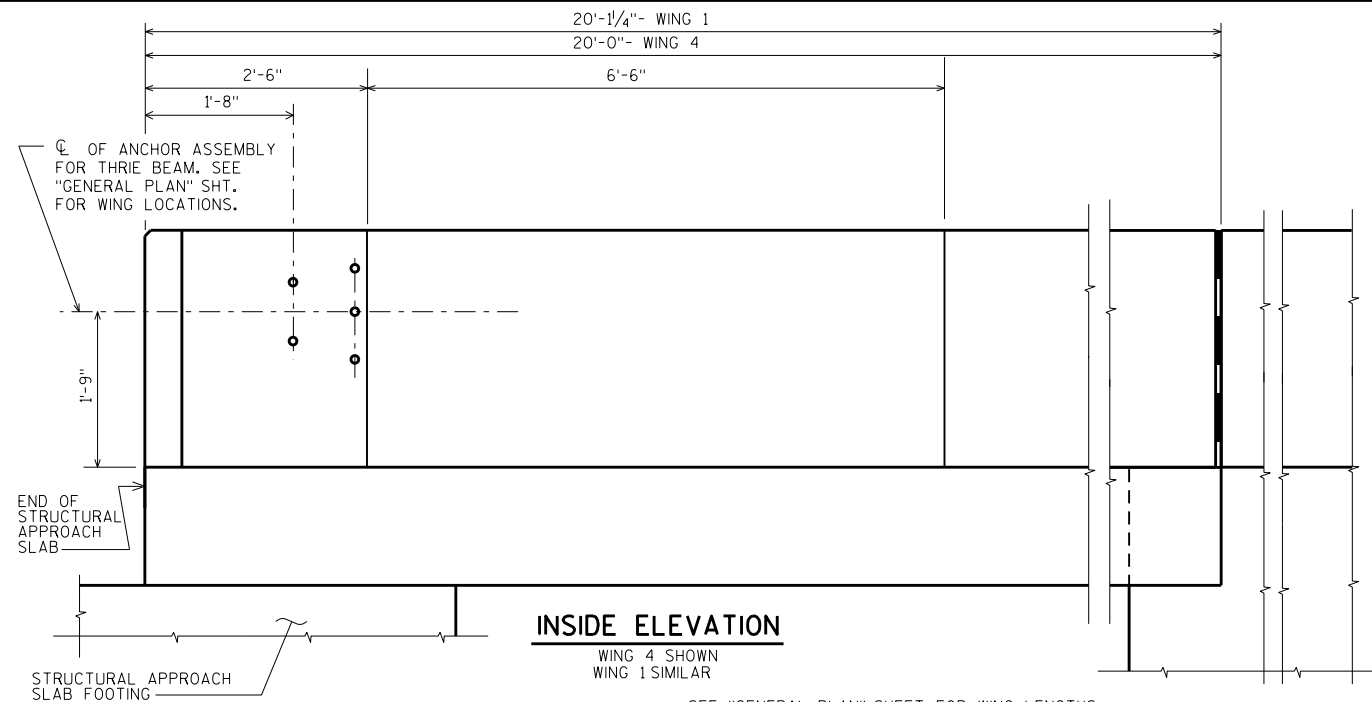
BAR MARK	NO. REQ'D.	LENGTH
R525	2 SERIES OF 6	4'-9" TO 6'-1"

BUNDLE AND TAG EACH SERIES SEPARATELY.

STATE PROJECT NUMBER

2788-00-71

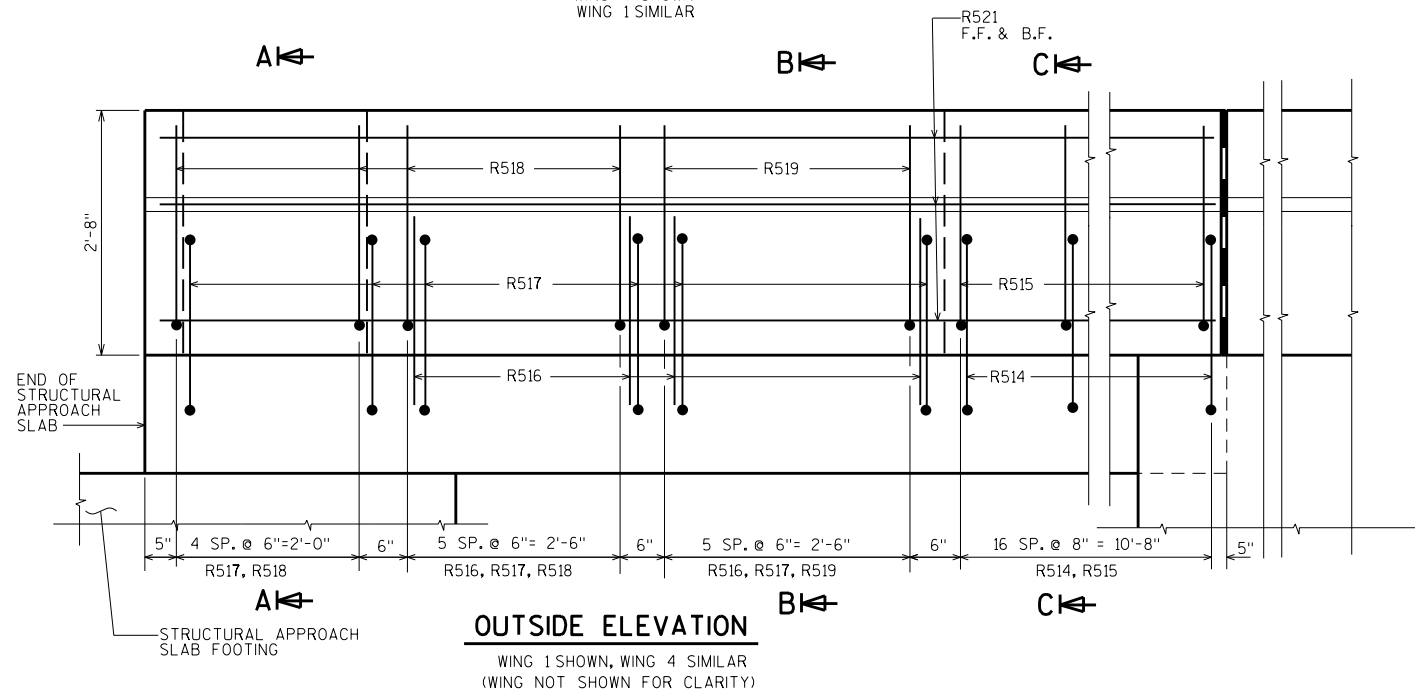
NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE B-67-315			
		DRAWN BY	MJK PLANS CK'D. SAD
APPROACH SLAB DETAILS		SHEET 15	



DETAIL OF ANCHOR ASSEMBLY

NOTE: HEX HEAD CAP SCREWS & WASHERS TO BE GALVANIZED IN ACCORDANCE WITH AASHTO M232 CLASS C.

ASSEMBLY SHALL BE BID ITEM "ANCHOR ASSEMBLIES FOR STEEL PLATE BEAM GUARD", EACH.

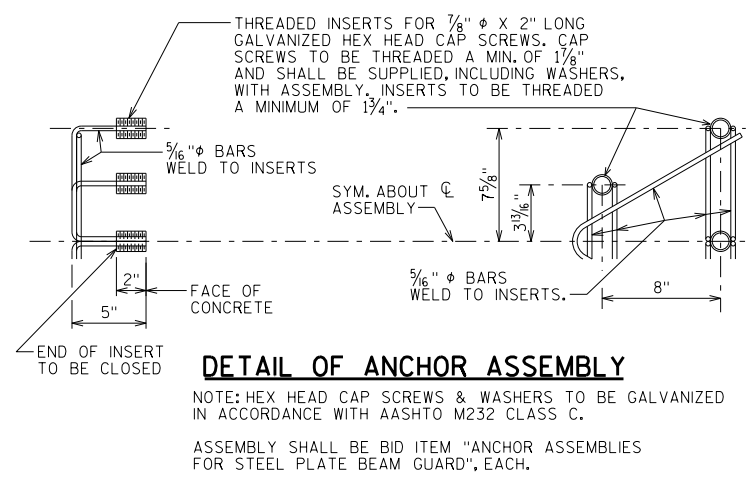
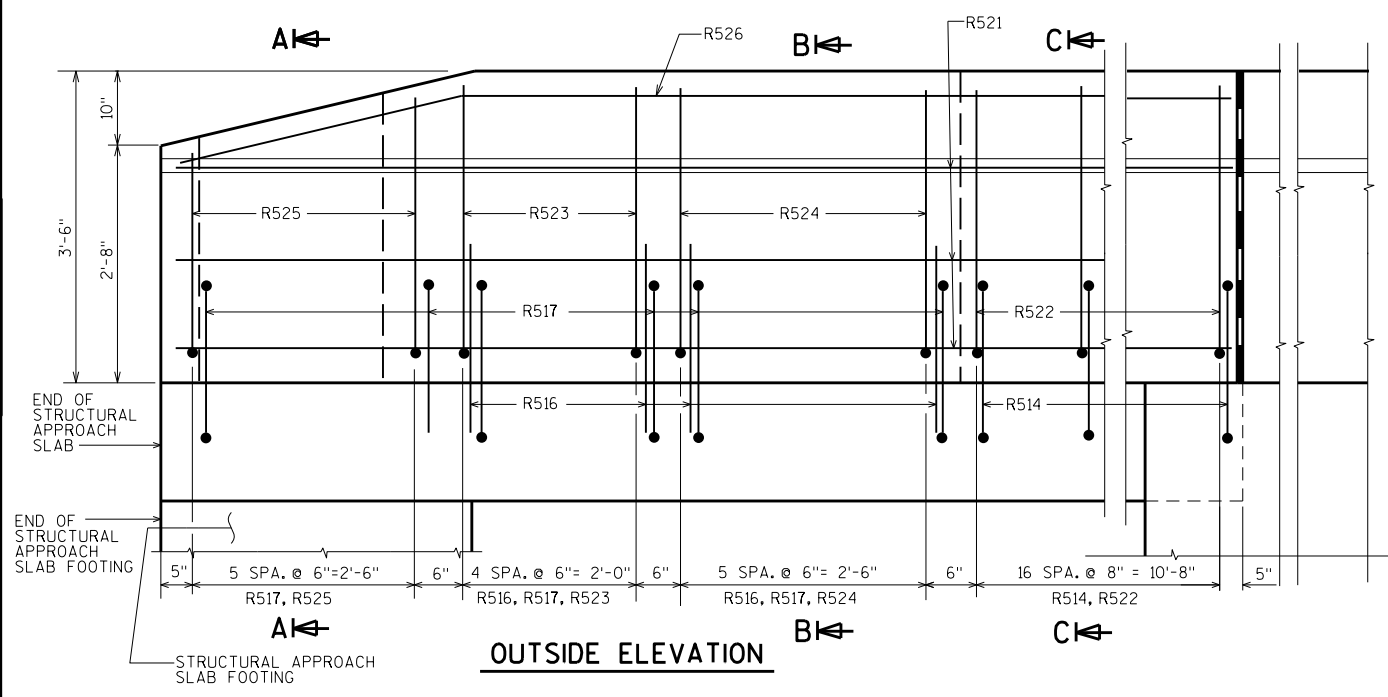
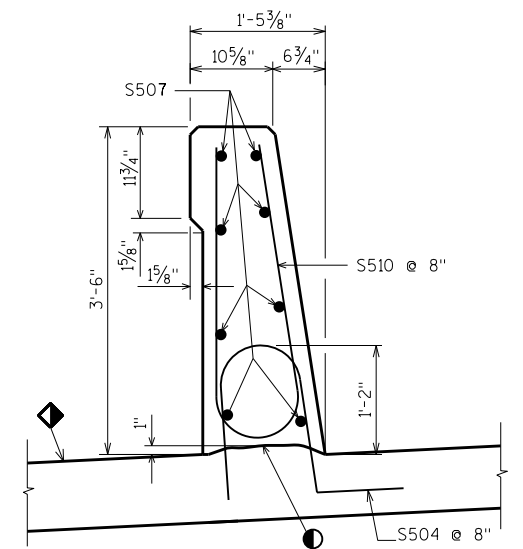
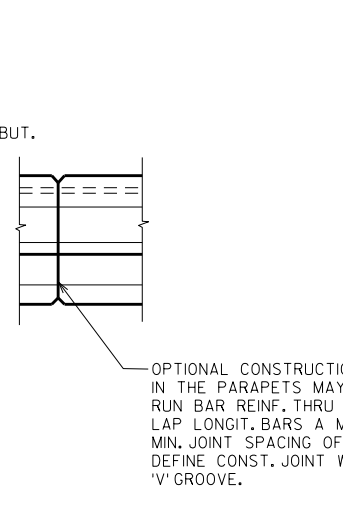
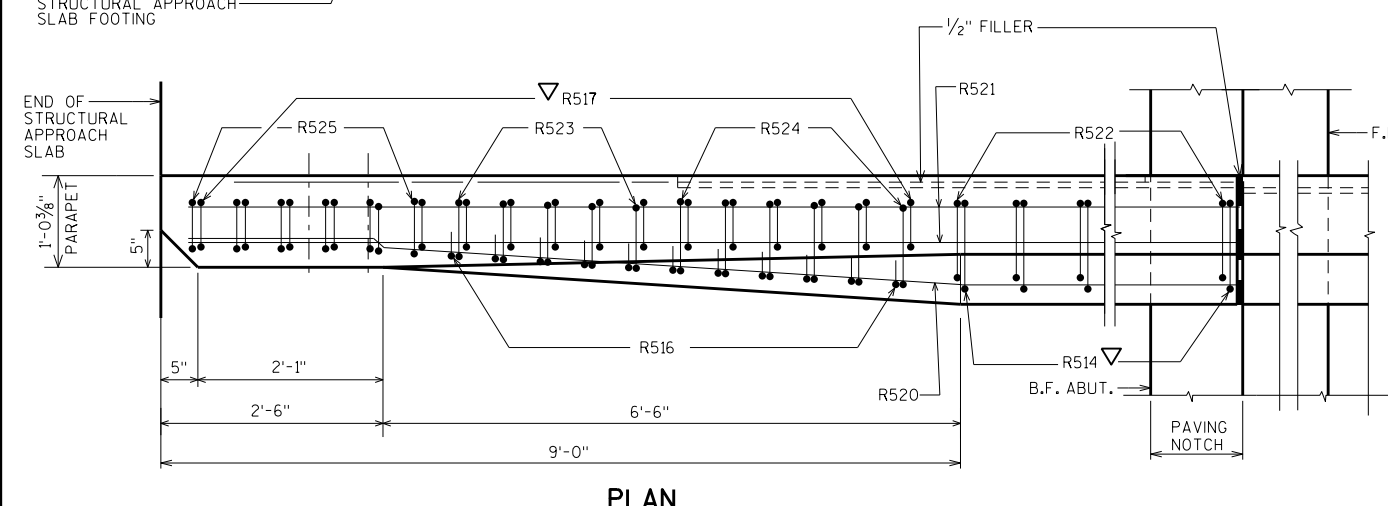
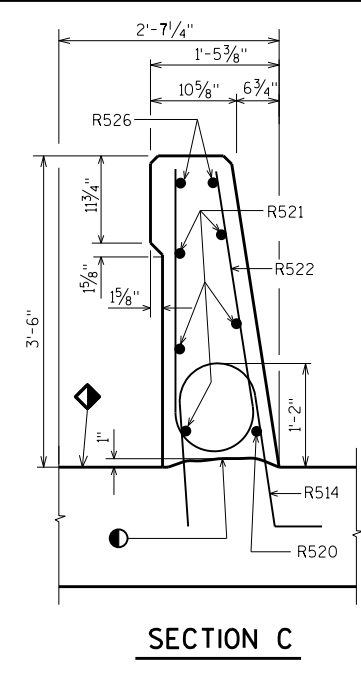
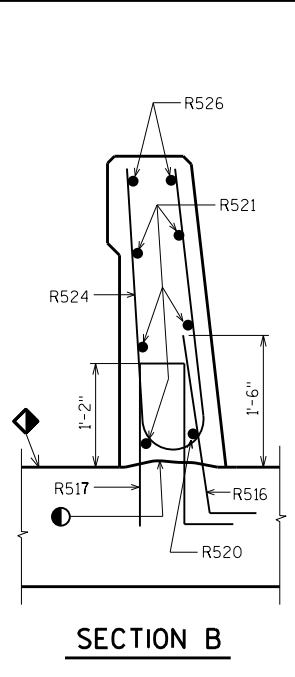
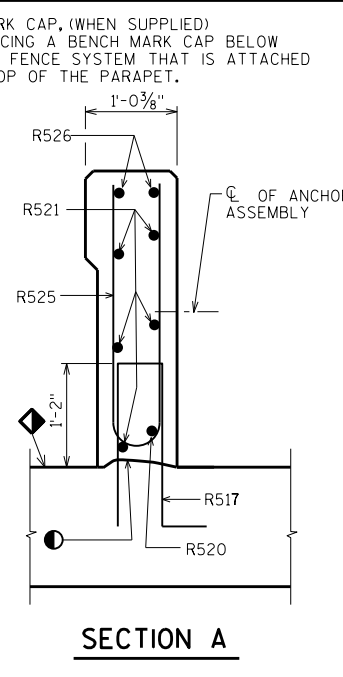
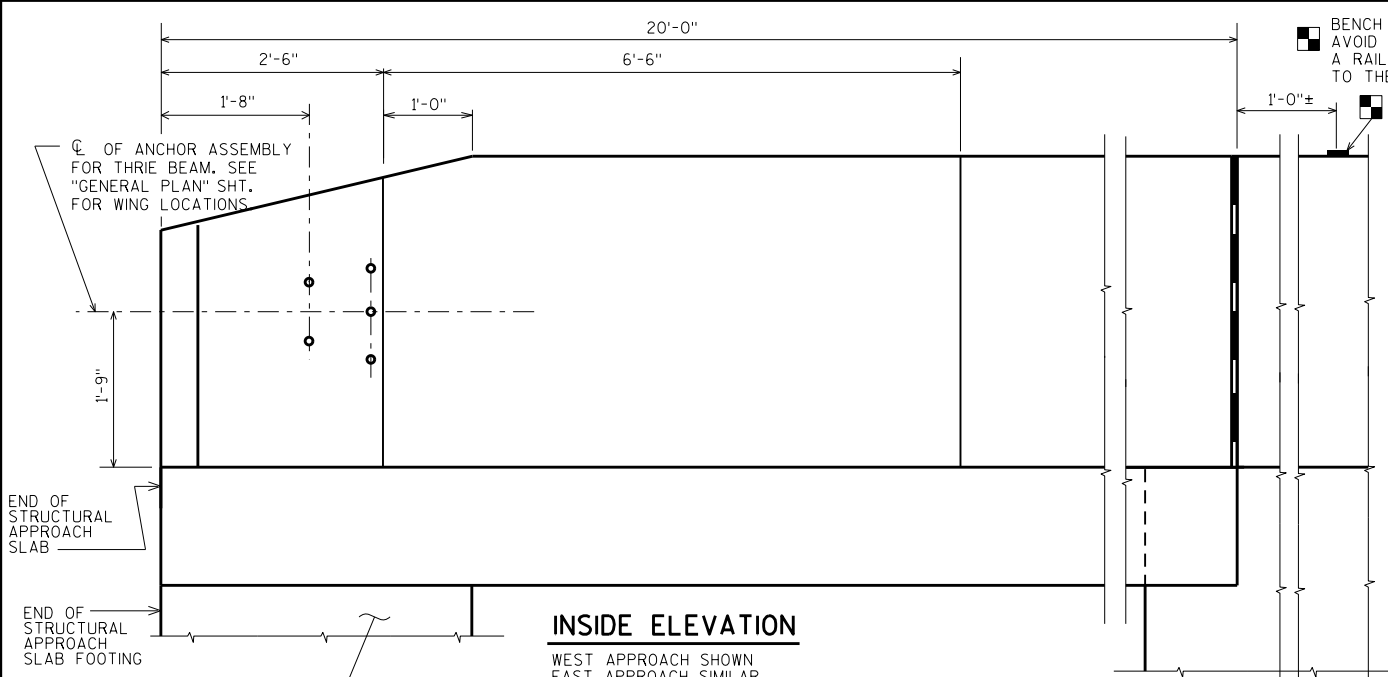


◆ SLOPE FOR DRAINAGE

● CONST. JOINT - STRIKE OFF AS SHOWN.

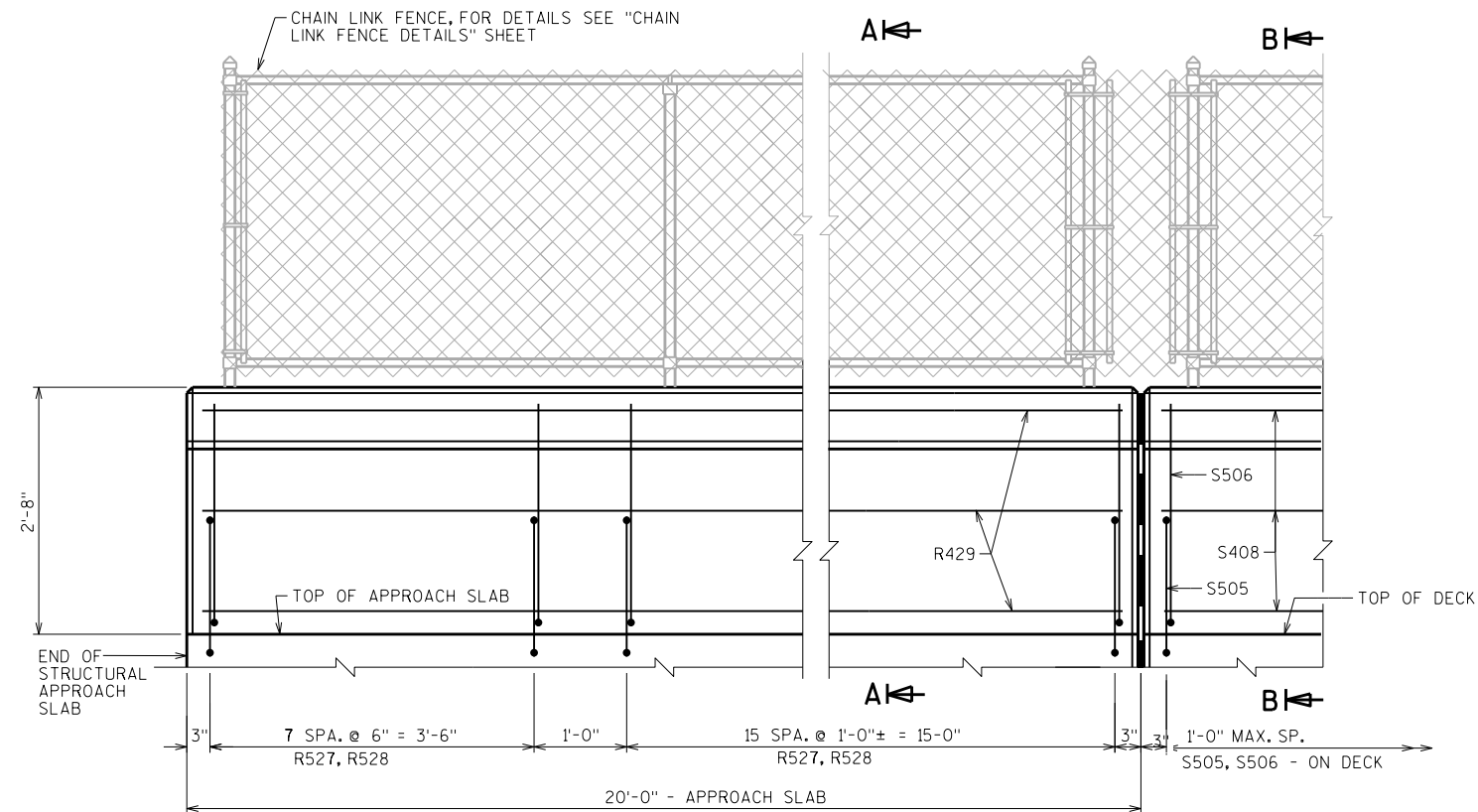
▽ R517 AND R514 BARS TO BE TIED TO STRUCTURAL APPROACH SLAB STEEL BEFORE STRUCTURAL APPROACH SLAB IS POURED.

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE B-67-315			
DRAWN BY MJK		PLANS CKD. SAD	
SINGLE SLOPE PARAPET 32SS WITH STRUCTURAL APPROACH SLAB		SHEET 16	

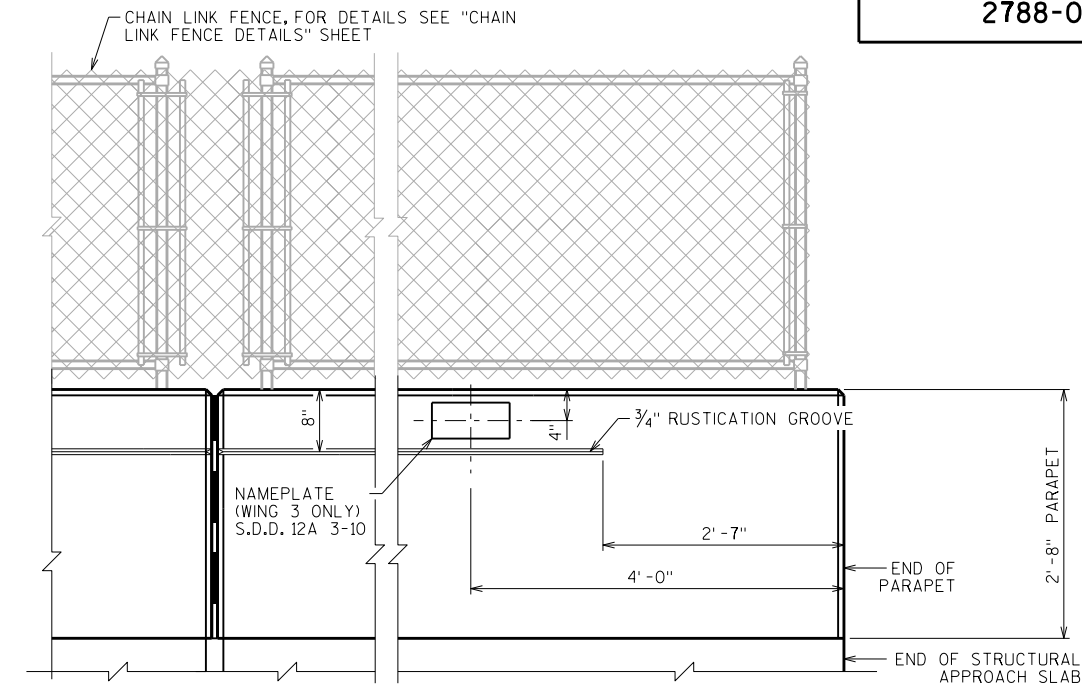
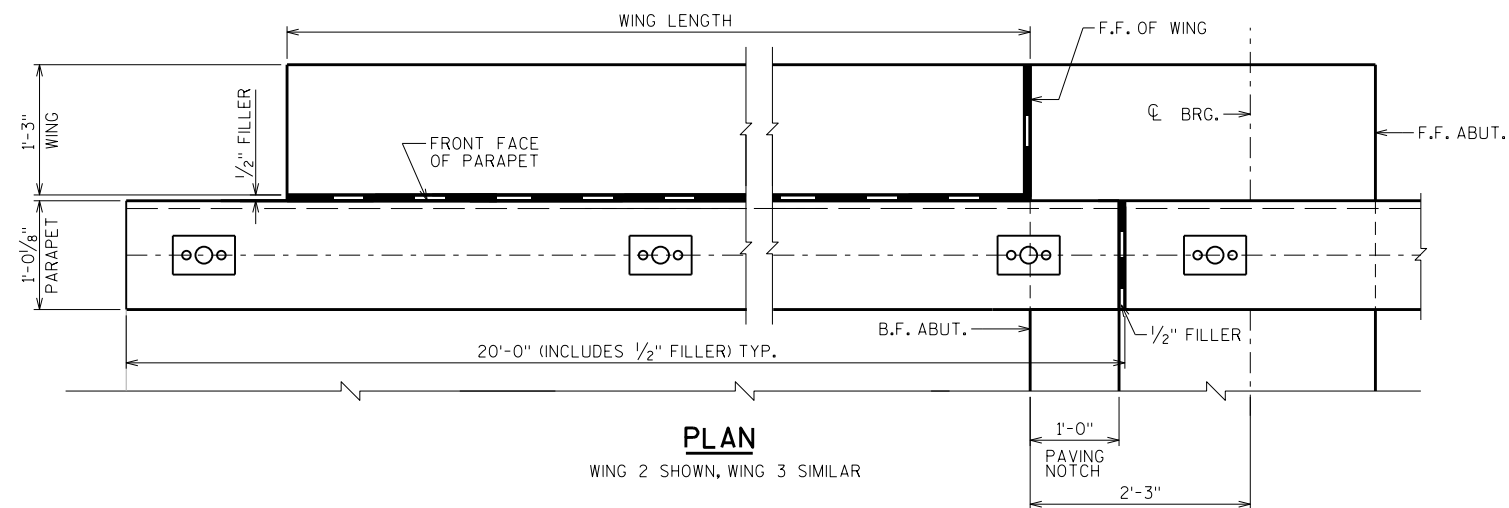


- CONST. JOINT - STRIKE OFF AS SHOWN.
- ◆ MATCH DECK CROSS SLOPE
- ▽ R517 AND R514 BARS TO BE TIED TO STRUCTURAL APPROACH SLAB STEEL BEFORE STRUCTURAL APPROACH SLAB IS POURED.

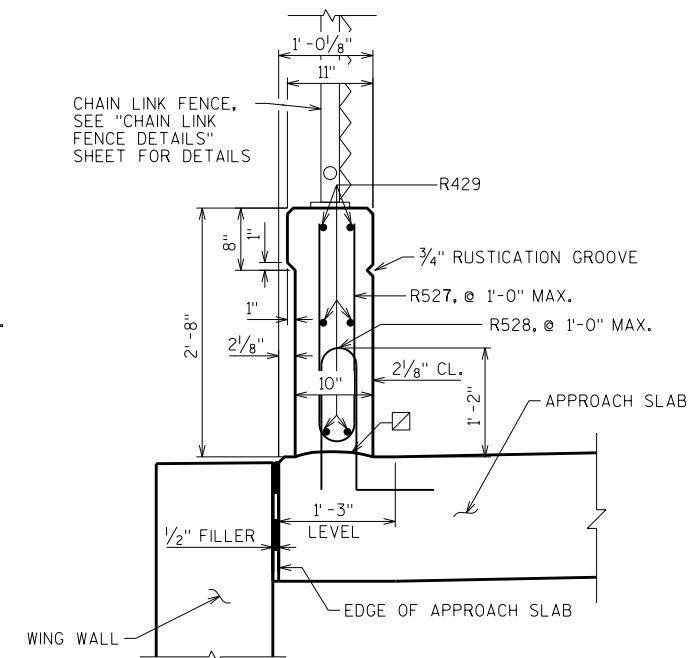
NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE B-67-315			
DRAWN BY		MJK	PLANS CKD. SAD
SINGLE SLOPE PARAPET 42SS WITH STRUCTURAL APPROACH SLAB		SHEET 17	



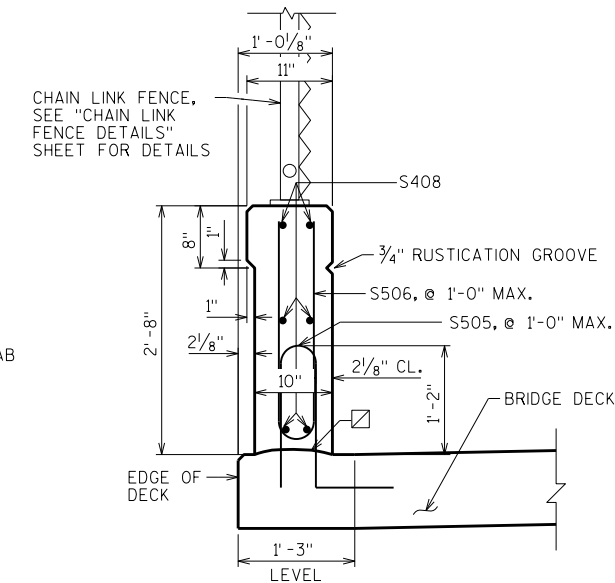
OUTSIDE ELEVATION



INSIDE ELEVATION



SECTION A



SECTION B

CONST. JOINT - STRIKE OFF AS SHOWN AND LEAVE ROUGH FOR DECK POUR.

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE B-67-315			
DRAWN BY		MJK	PLANS CK'D. SAD
VERTICAL FACE PARAPET 'A' WITH STRUCTURAL APPROACH SLAB			SHEET 18

FENCE MEMBER
SIZE & WEIGHT

STEEL FENCE MEMBER	OUTSIDE DIAMETER (INCHES)	WEIGHT (LB/FT)
RAILS	1.660	2.27
END POST	2.875	5.80
OVERHANG POST	2.875	5.80
LINE POST	2.375	3.65
POST SLEEVE	4.000	9.12

GENERAL NOTES

POSTS ARE TO BE SET VERTICAL.

ALL FENCE COMPONENTS SHALL BE GALVANIZED STEEL WITH A COLORED POLYMER-COATING ON THE OUTSIDE.

FABRIC SHALL CONFORM TO ASTM F668, CLASS 2B. STEEL RAILS, POSTS AND POST SLEEVES SHALL CONFORM TO ASTM F1083, STANDARD WEIGHT PIPE (SCHEDULE 40). FITTINGS SHALL CONFORM TO ASTM F626, SEE THE "BRIDGE SPECIAL PROVISIONS" FOR ADDITIONAL DETAILS.

THE COLOR OF POLYMER-COATING FOR THIS STRUCTURE SHALL BE BLACK IN ACCORDANCE WITH ASTM F934.

THE BID ITEM SHALL BE "FENCE CHAIN LINK POLYMER-COATED 4'-FT.", LF.

COMPLETE ANY REQUIRED WELDING OF COMPONENTS BEFORE GALVANIZING.

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

BASE PLATES, ANCHOR PLATES AND SHIMS SHALL BE ASTM A709, GRADE 36.

ALL POST SPACINGS ARE MEASURED HORIZONTALLY ALONG THE C/L OF THE POST.

CAULK AROUND PERIMETER OF BASE PLATE AND FILL PORTION OF SLOTTED HOLE AROUND ANCHOR BOLT IN SHIM WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER.

ALTERNATE TO DOUBLE CLAMP: USE LINE RAIL CLAMP (BOULEVARD) OR 180° BRACE BAND, WHICH MAY BE USED WHEN THE POSTS ARE EITHER BOLTED TO THE POST SLEEVES OR DIRECTLY WELDED TO THE BASE PLATE.

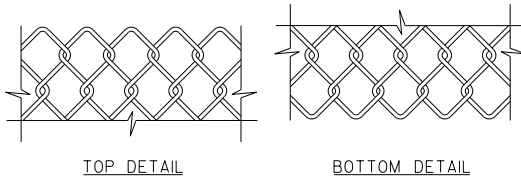
1/2" DIA. X 6 7/8" LONG GALVANIZED HEX BOLT WITH NUT & WASHER. SEE

ALTERNATIVE ANCHORAGE: CONCRETE ADHESIVE ANCHORS 1/2-INCH. EMBED 7" IN CONCRETE. ADHESIVE ANCHORS SHALL CONFORM TO SECTION 502.2.12 OF THE STANDARD SPECIFICATIONS.

ATTACH FABRIC TO RAILS, AND TO POSTS WITHOUT TENSION BANDS, WITH TIE WIRES (ROUND, 9-GAGE) SPACED AT 1'-0".

BOLT RAIL TO RAIL END TO SECURE OVERHANG SECTION. ALTERNATE IS TO WELD RAIL DIRECTLY TO END POST.

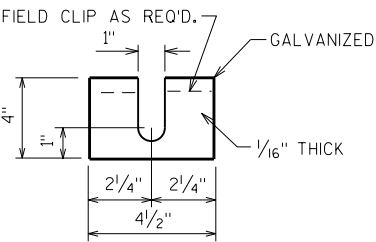
MINIMUM LENGTH OF TOP RAIL BETWEEN SPLICES SHALL BE 20'-0". LOCATE SPLICES NEAR 1/4 POINT OF POST SPACING.



FENCE FABRIC

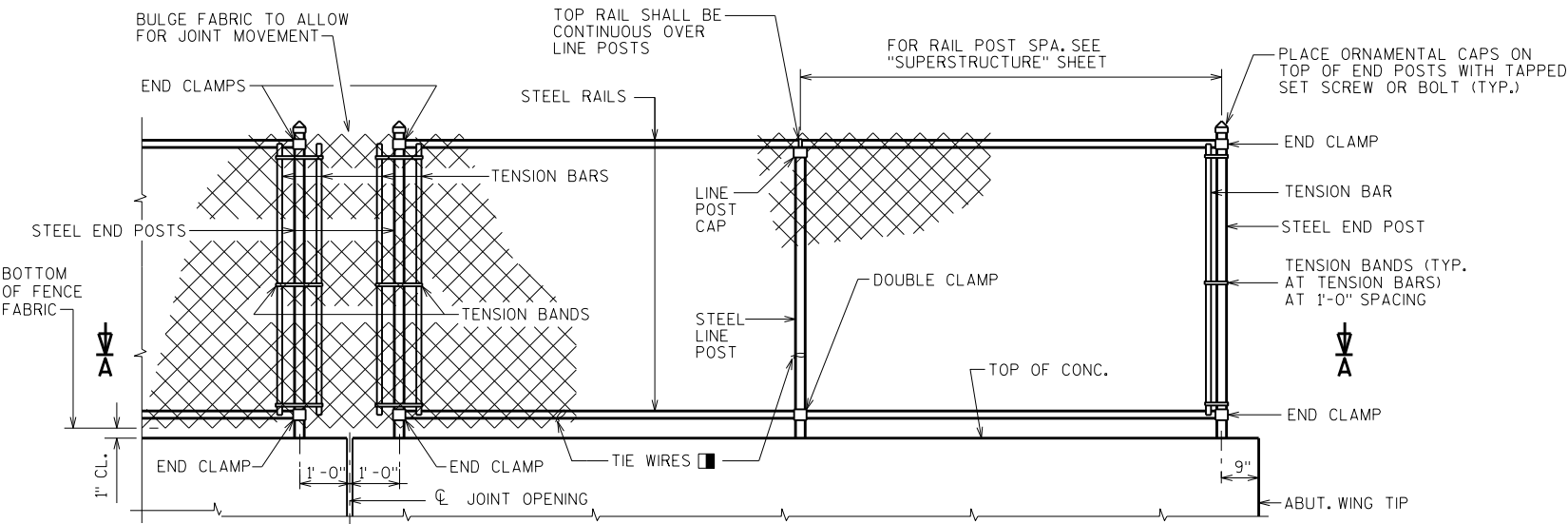
FENCE FABRIC WOVEN OF 9-GAGE WIRE IN 2" DIAMOND PATTERN MESH WITH BOTH THE TOP AND BOTTOM SELVAGES KNUCKLED.

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE B-67-315			
DRAWN BY		MJK	PLANS CKD. SAD
CHAIN LINK FENCE DETAILS		SHEET 19	



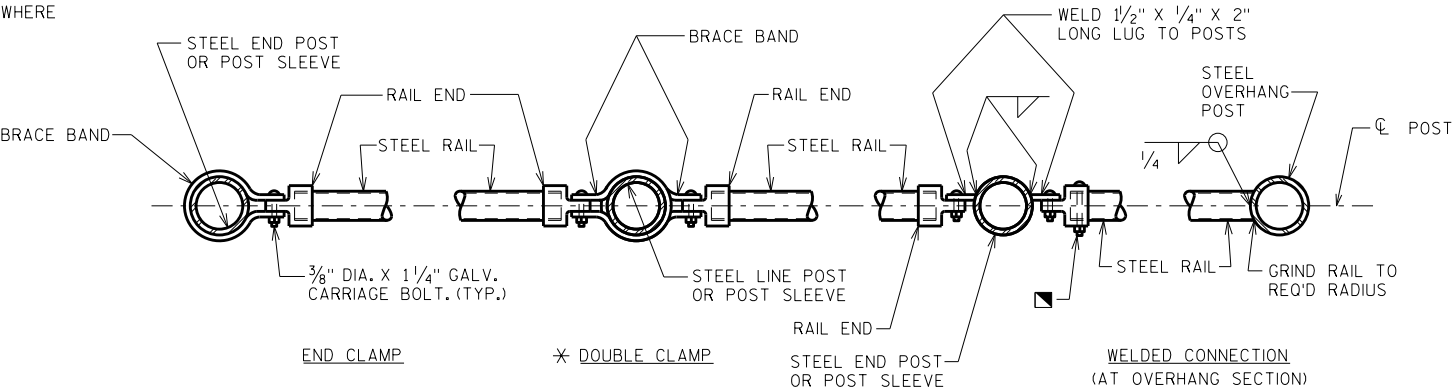
POST SHIM DETAILS

SHIMS REQUIRED ONLY WHEN END POSTS AND LINE POSTS ARE WELDED TO BASE PLATES. PROVIDE 4 SHIMS PER POST. USE WHERE REQUIRED FOR ALIGNMENT.



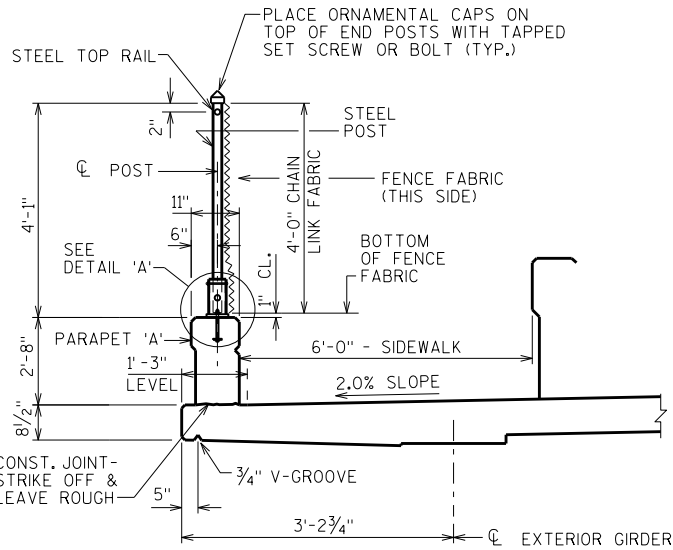
FENCE PART ELEVATION

VIEWING FABRIC SIDE

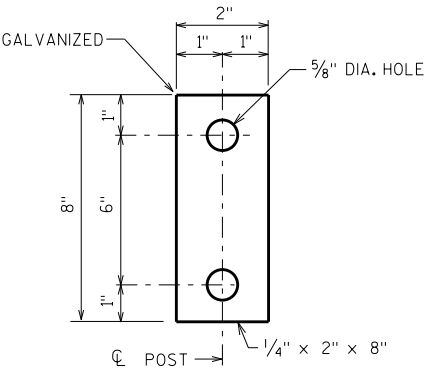


SECTION A-A

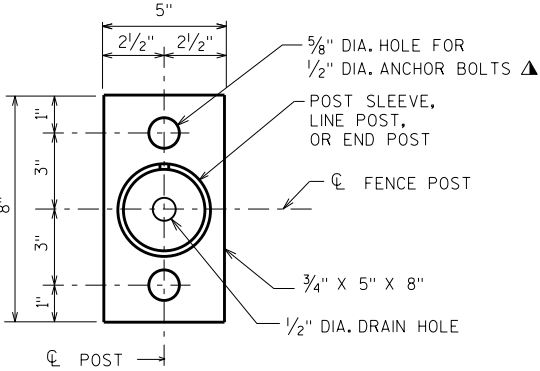
NOTE: PLACE ALL BOLT HEADS ON SIDE OF FENCE ADJACENT TO PEDESTRIANS



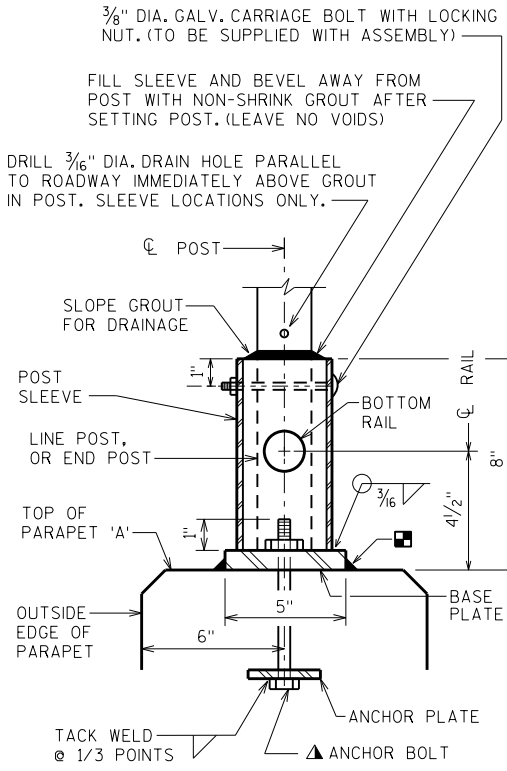
SECTION THRU FENCE



ANCHOR PLATE



BASE PLATE



DETAIL 'A'

UNIT SHALL BE GALVANIZED AFTER FABRICATION

NOTE: IN LIEU OF USING THE POST SLEEVE, THE FENCE POST MAY BE WELDED TO THE BASE PLATE.