

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

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

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

AT ABUTMENTS ALL SPACES EXCAVATED AND NOT OCCUPIED BY THE NEW STRUCTURE SHALL BE BACKFILLED WITH STRUCTURE BACKFILL.

THE EXISTING GROUND LINE SHALL BE THE UPPER LIMITS OF EXCAVATION FOR STRUCTURES.

ALL REINFORCING BARS ARE ENGLISH AND THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFY THE BAR SIZE.

UTILITIES UNDER OAKWOOD RD. ARE NOT TO SCALE. ELEVATIONS ARE UNKNOWN.

LIST OF DRAWINGS

1. GENERAL PLAN & ELEVATION
2. CROSS SECTION
3. QUANTITIES & PROFILE GRADE LINE
4. SUBSURFACE EXPLORATION
5. SOUTH ABUTMENT
6. SOUTH ABUTMENT DETAILS
7. NORTH ABUTMENT
8. NORTH ABUTMENT DETAILS
9. ABUTMENT WINGWALL DETAILS & BILL OF BARS
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11. PIER 1 DETAILS (1 OF 2)
12. PIER 1 DETAILS (2 OF 2)
13. PIER 2
14. PIER 2 DETAILS (1 OF 2)
15. PIER 2 DETAILS (2 OF 2)
16. SUPERSTRUCTURE
17. SUPERSTRUCTURE DETAILS
18. SUPERSTRUCTURE BILL OF BARS
19. SOUTH STRUCTURAL APPROACH SLAB
20. NORTH STRUCTURAL APPROACH SLAB
21. SLOPED FACE PARAPET 42SS MODIFIED (1 OF 3)
22. SLOPED FACE PARAPET 42SS MODIFIED (2 OF 3)
23. SLOPED FACE PARAPET 42SS MODIFIED (3 OF 3)
24. AESTHETIC DETAILS
25. SLOPE PAVING DETAILS

STRUCTURES DESIGN CONTACTS

BRIDGE OFFICE:
WILLIAM DREHER (608) 266-8489
CONSULTANT:
KARL SCHMID (414) 272-2426

CURVE DATA

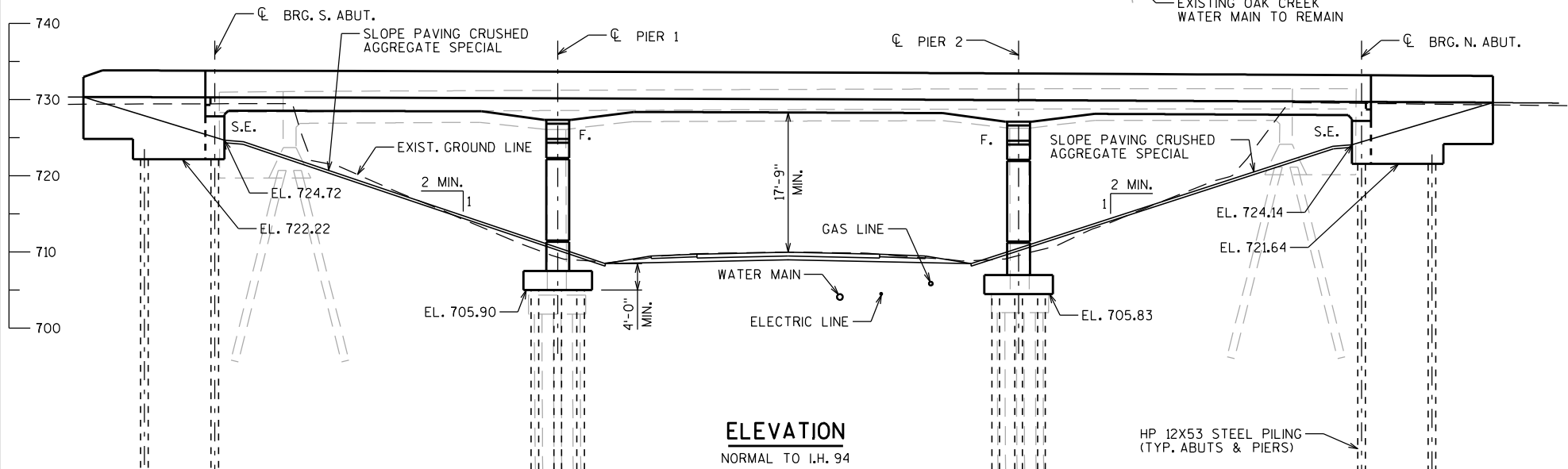
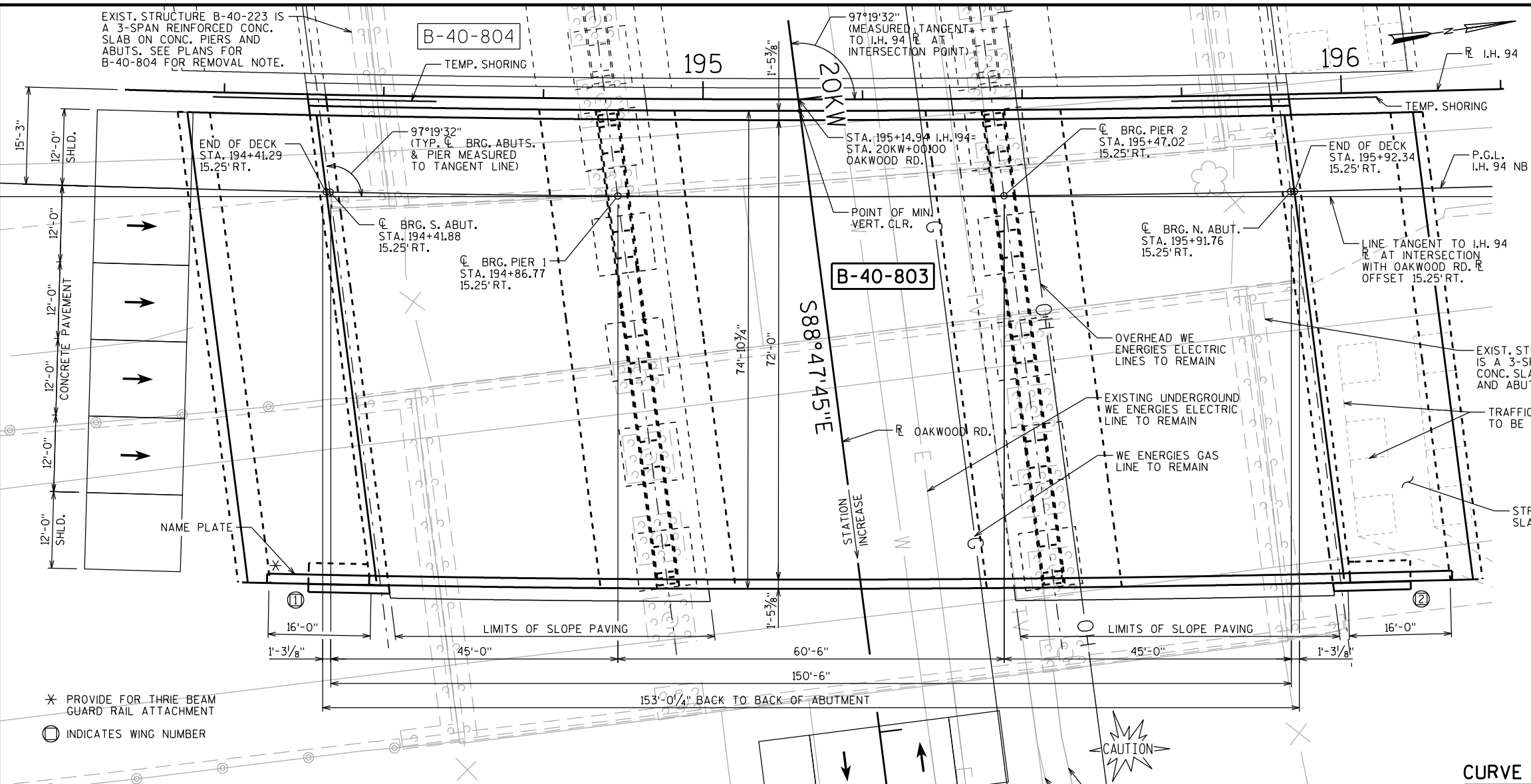
I.H. 94
P.I. = 186+72.49
N = 232742.86
E = 598363.35
 Δ = 42°08'21" LEFT
D = 1°32'55"
T = 1425.46'
L = 2721.23'
R = 3700.00'
P.C. = 172+47.03
P.T. = 199+68.26

PLAN

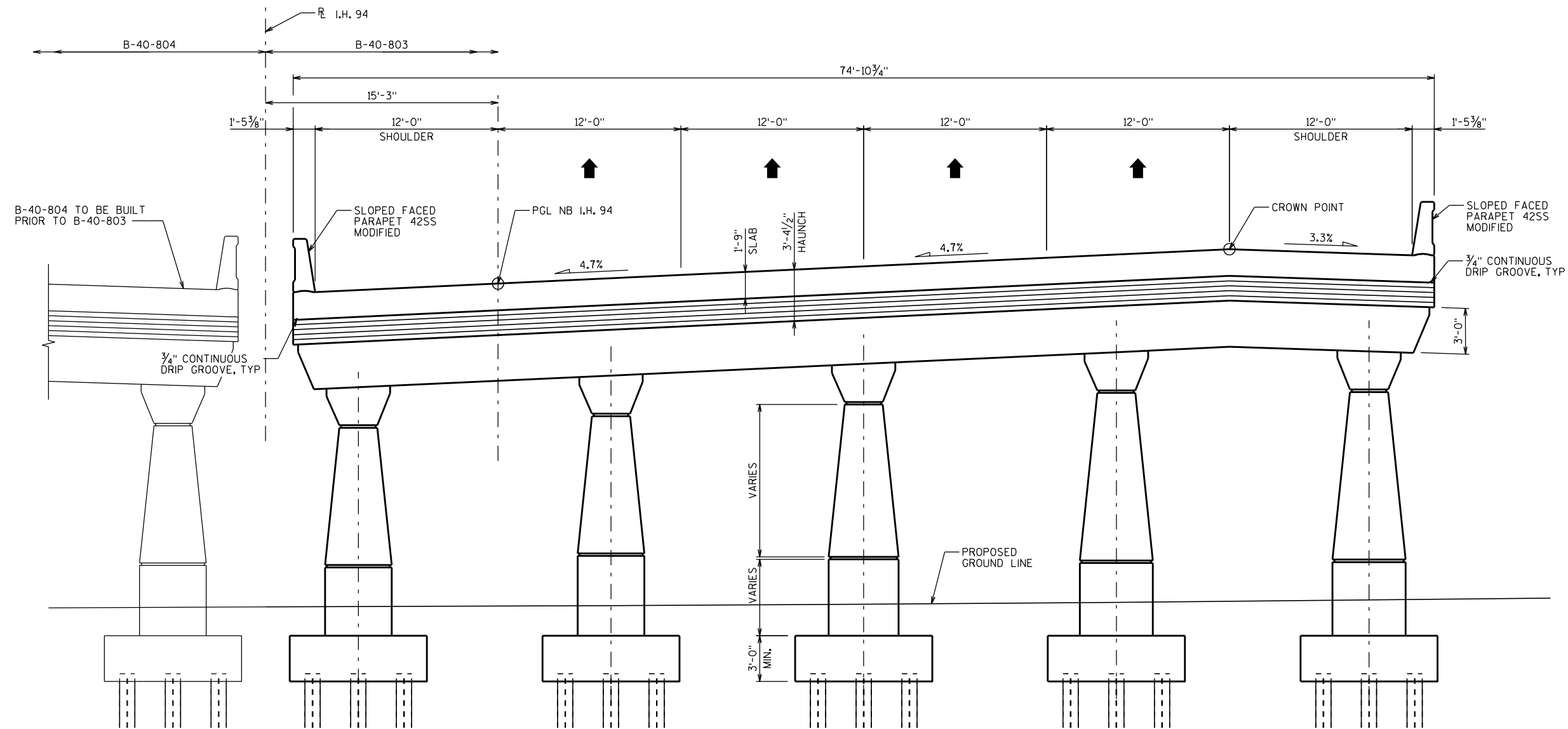
3 SPAN HAUNCHED CONCRETE SLAB
ABUT. AND PIER SKEW MEASURED TO TANGENT LINE
DIMENSIONS SHOWN ARE ALONG TANGENT LINE

ELEVATION

NORMAL TO I.H. 94



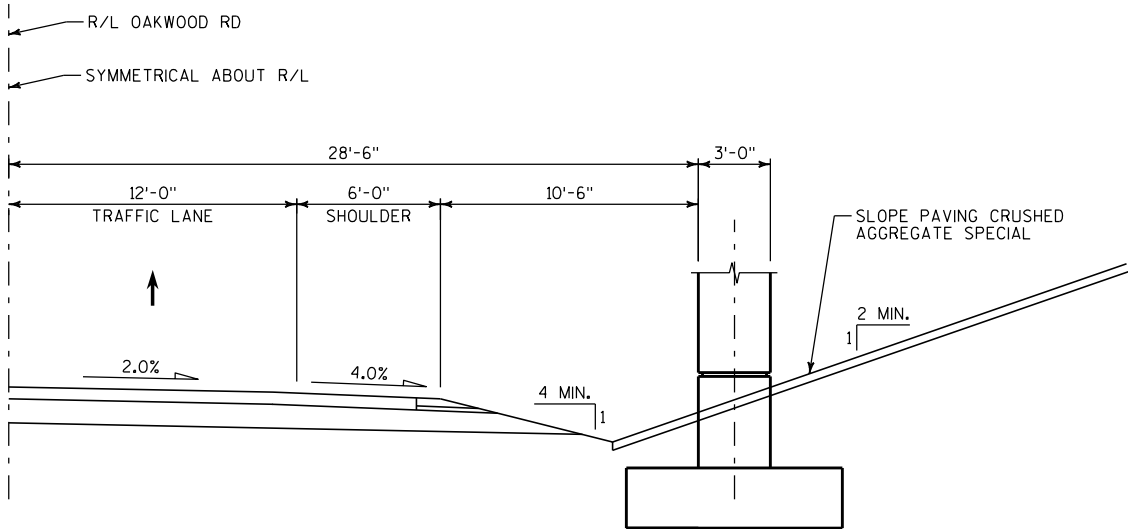
NO.	DATE	REVISION	BY
			
ACCEPTED _____ CHIEF STRUCTURES DESIGN ENGINEER _____ DATE _____			
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
STRUCTURE B-40-803			
WB I.H. 94 OVER OAKWOOD RD.			
COUNTY	MILWAUKEE	TOWN/CITY/VILLAGE	OAK CREEK
DESIGN SPEC. AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS			
DESIGNED BY	DGS/SKT	DESIGN CK'D.	KES
DRAWN BY	JBA	PLANS CK'D.	KES
GENERAL PLAN & ELEVATION			SHEET 1 OF 25



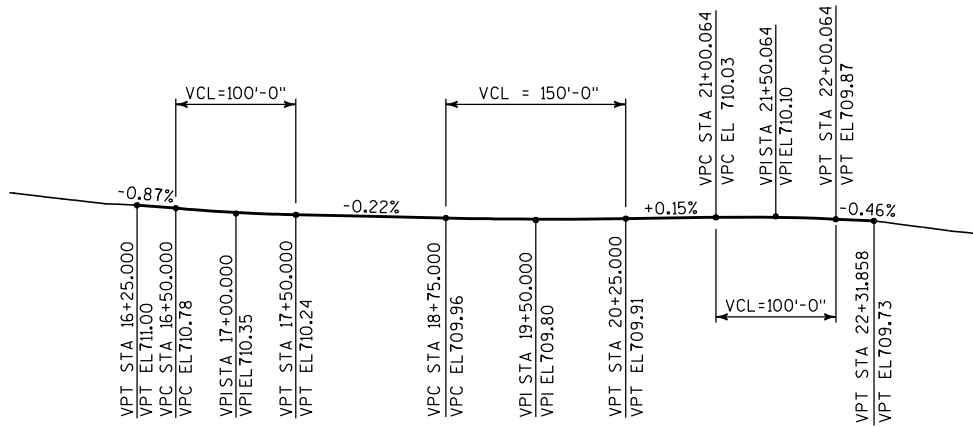
TYPICAL SECTION THRU NB. I.H. 94

HAUNCHED REINFORCED CONCRETE SLAB
(LOOKING NORTH)

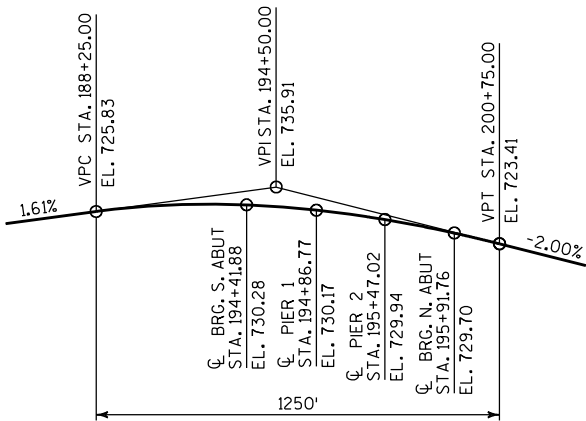
NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
STRUCTURE B-40-803			
		DRAWN BY	JBA
		PLANS CK'D.	KES
CROSS SECTION		SHEET 2 OF 25	



TYPICAL SECTION THRU OAKWOOD RD.



PROFILE GRADE LINE OAKWOOD ROAD



PROFILE GRADE LINE I.H. 94

DESIGN DATA

LIVE LOAD
DESIGN LOADING: HL-93
INVENTORY RATING FACTOR: RF = 1.09
OPERATING RATING FACTOR: RF = 1.41
WISCONSIN STANDARD PERMIT VEHICLE (WIS-SPV): 190 KIPS

STRUCTURE IS DESIGNED FOR A 1 1/2" SACRIFICIAL WEARING SURFACE PLACED AT INITIAL CONSTRUCTION INTEGRAL WITH THE DECK. NO ALLOWANCE HAS BEEN MADE FOR A FUTURE WEARING SURFACE LOAD.

ULTIMATE DESIGN STRESSES

CONCRETE MASONRY _____ f'c = 4,000 PSI
BAR STEEL REINFORCEMENT _____ fy = 60,000 PSI
STEEL PILING _____ Fy = 50,000 PSI

FOUNDATION DATA

ABUTMENTS AND PIERS TO BE SUPPORTED ON HP 12 X 53 STEEL PILING DRIVEN TO A REQUIRED DRIVING RESISTANCE PER PILE AS DETERMINED BY THE PDA/CAPWAP METHOD.

	EST. PILE LENGTHS:	REQUIRED DRIVING RESISTANCE **:
S. ABUT. _____	40 FEET	96 TONS
PIER 1 _____	70 FEET	191 TONS
PIER 2 _____	70 FEET	191 TONS
N. ABUT. _____	40 FEET	96 TONS

** THE FACTORED AXIAL RESISTANCE OF PILES IN COMPRESSION USED FOR DESIGN IS THE REQUIRED DRIVING RESISTANCE MULTIPLIED BY A RESISTANCE FACTOR OF 0.65 USING THE PDA/CAPWAP METHOD TO DETERMINE DRIVEN PILE CAPACITY.

TRAFFIC VOLUME

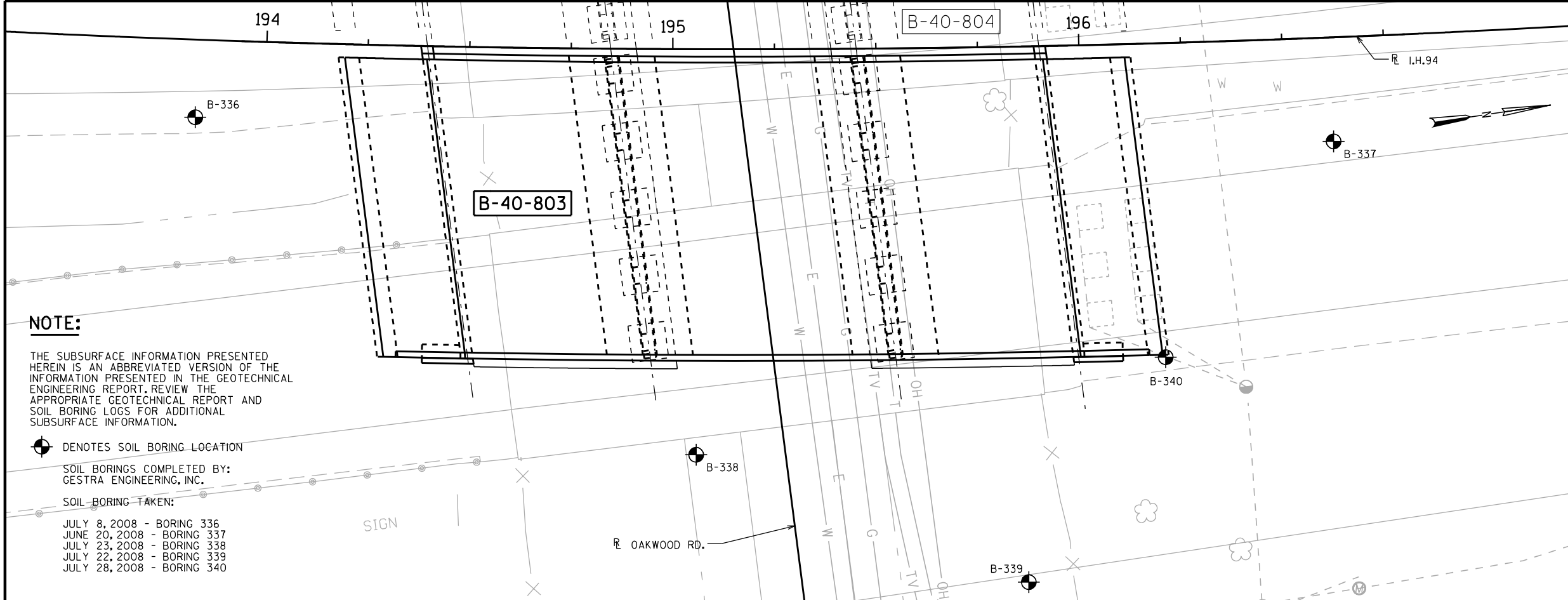
OAKWOOD RD. I.H. 94
A.D.T. = 3,900 (2035) A.D.T. = 115,000 (2035)
R.D.S. = 40 M.P.H. R.D.S. = 70 M.P.H.

TOTAL ESTIMATED QUANTITIES

ITEM NO.	BID ITEMS	UNIT	SOUTH ABUT.	NORTH ABUT.	PIER 1	PIER 2	SUPER	TOTAL
203.0200	REMOVING OLD STRUCTURE STA 195+15	LS	-	-	-	-	-	1
206.1000	EXCAVATION FOR STRUCTURES BRIDGES B-40-803	LS	-	-	-	-	-	1
206.6000.S	TEMPORARY SHORING	SF	270	270	-	-	-	540
210.0100	BACKFILL STRUCTURE	CY	182	180	57	57	-	476
502.0100	CONCRETE MASONRY BRIDGES	CY	59	59	101	100	-	319
502.3200	PROTECTIVE SURFACE TREATMENT	SY	-	-	-	-	1,214	1,214
505.0405	BAR STEEL REINFORCEMENT HS BRIDGES	LB	-	-	3,865	3,865	-	7,730
505.0605	BAR STEEL REINFORCEMENT HS COATED BRIDGES	LB	6,150	6,125	23,595	23,520	163,925	223,315
516.0500	RUBBERIZED MEMBRANE WATERPROOFING	SY	14	14	-	-	-	28
550.1120.S	PILING STEEL HP 12-INCH X 53 LB	LF	440	440	2,100	2,100	-	5,080
612.0406	PIPE UNDERDRAIN WRAPPED 6-INCH	LF	117	117	-	-	-	234
614.0150	ANCHOR ASSEMBLIES FOR STEEL PLATE BEAM GUARD	EACH	1	-	-	-	-	1
SPV.0035.4000	HPC MASONRY SUPERSTRUCTURES	CY	-	-	-	-	900	900
SPV.0060.4000	PDA TESTING	EACH	3	3	5	5	-	16
SPV.0060.4001	PDA RESTRIKES	EACH	2	2	4	4	-	12
SPV.0165.4002	LONGITUDINAL GROOVING BRIDGE DECK	SF	-	-	-	-	10,925	10,925
SPV.0165.4003	STAINING CONCRETE	SF	490	485	1,640	1,630	3,375	7,620
SPV.0180.4000	SLOPE PAVING CRUSHED AGGREGATE SPECIAL	SY	458	461	-	-	-	919
	NON-BID ITEMS							
	FILLER	SIZE						1/2", 3/4", & 1"

NOTE: ALL ITEMS CATEGORY 2010

NO.	DATE	REVISION	BY
		STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
		STRUCTURE B-40-803	
		DRAWN BY JBA PLANS CK'D. KES	
		QUANTITIES & PROFILE GRADE LINES	SHEET 3 OF 25



NOTE:
THE SUBSURFACE INFORMATION PRESENTED HEREIN IS AN ABBREVIATED VERSION OF THE INFORMATION PRESENTED IN THE GEOTECHNICAL ENGINEERING REPORT. REVIEW THE APPROPRIATE GEOTECHNICAL REPORT AND SOIL BORING LOGS FOR ADDITIONAL SUBSURFACE INFORMATION.

- DENOTES SOIL BORING LOCATION
- SOIL BORINGS COMPLETED BY:
GESTRA ENGINEERING, INC.
- SOIL BORING TAKEN:
- JULY 8, 2008 - BORING 336
 - JUNE 20, 2008 - BORING 337
 - JULY 23, 2008 - BORING 338
 - JULY 22, 2008 - BORING 339
 - JULY 28, 2008 - BORING 340

STATE PROJECT NUMBER

1030-20-87

ABBREVIATIONS

F — FINE
WS — WEATHERED

M — MEDIUM
SO — SOUND

C — COARSE

MATERIAL SYMBOLS

TOPSOIL / FILL
SAND
GRAVEL

SILT
PEAT
CLAY

SANDSTONE
LIMESTONE
IGNEOUS ROCK

LEGEND OF PROBING

PROBING NO.
STA.
ELEVATION
7 AVERAGE BLOWS PER FOOT
REFUSAL 95/6

95/6=95 BLOWS FOR 6" PENETRATION PROBING TAKEN WITH A 350* WT. FALLING 18" ON A 2" O.D. POINT.

LEGEND OF BORING

BORING NO.
STA.
ELEV.
UNCONFINED STRENGTH (TSF) 7.7
BLOWS PER FT. USING 140* WT. FALLING 30"
WASH SAMPLE
SHELBY TUBE — S.T.
GROUND WATER ELEVATION
NO GROUND WATER OBSERVED ABOVE THIS ELEVATION

SANDY GRAVEL
F. BOULDERS OR COBBLES
SAND
SILTY CLAY
SO
LIMESTONE

UNLESS OTHERWISE SPECIFIED, THE BLOWS PER FOOT AT THE LOCATIONS INDICATED ARE BASED ON DRIVING A 2" O.D. X 1.4" I.D. SPLIT SPOON SAMPLER WITH A 140* HAMMER HAVING A FREE FALL OF 30". THE BLOW COUNT IS TAKEN IN UNDISTURBED SOIL IMMEDIATELY BELOW A CAGED OR OPEN HOLE ELIMINATING SIDE FRICTION ON THE DRIVE PIPE.

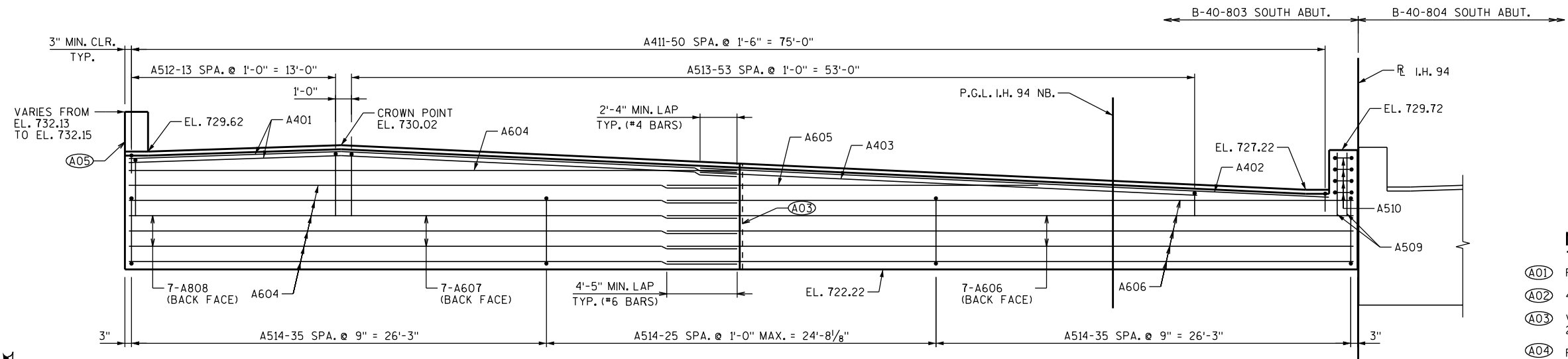
SUBSURFACE EXPLORATION FOR FOUNDATION DESIGN AND BIDDERS INFORMATION

TO OBTAIN RELATIVE DATA CONCERNING THE CHARACTER OF MATERIAL IN AND UPON WHICH THE FOUNDATION MIGHT BE BUILT, BORINGS AND/OR SOUNDINGS WERE MADE AT POINTS APPROXIMATELY AS INDICATED ON THIS DRAWING. THE DATA PRESENTED HEREIN REPRESENTS THE FINDINGS OF THE SUBSURFACE EXPLORATIONS MADE. HOWEVER, BECAUSE THE DEPTHS INVESTIGATED ARE LIMITED AND THE AREA OF THE BORINGS AND/OR SOUNDINGS IS VERY SMALL IN RELATION TO THE ENTIRE AREA, THE WISCONSIN DEPARTMENT OF TRANSPORTATION DOES NOT WARRANT CONDITIONS BELOW THE DEPTHS INVESTIGATED OR THAT THE CLASSIFICATION OF MATERIAL ENCOUNTERED IN THESE INVESTIGATIONS IS NECESSARILY TYPICAL OF THE ENTIRE SITE.

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
STRUCTURE B-40-803			
DRAWN BY		JBA	PLANS CK'D. KES
SUBSURFACE EXPLORATION		SHEET 4 OF 25	

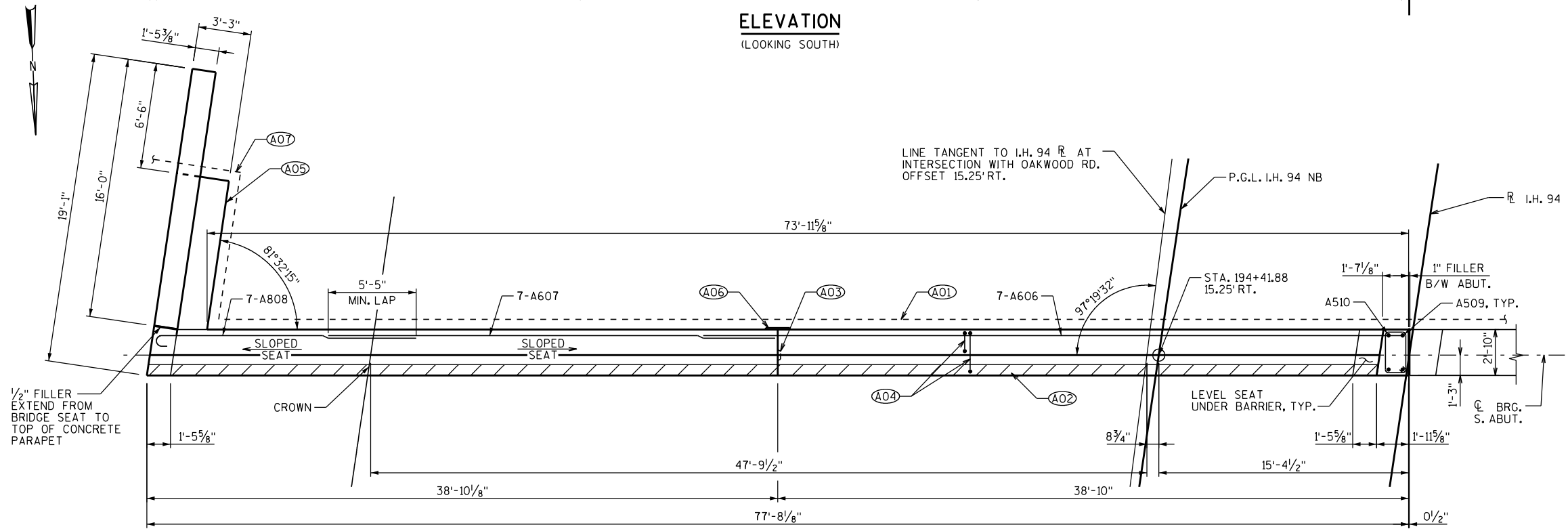
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8

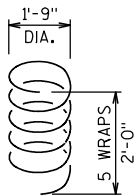


ELEVATION

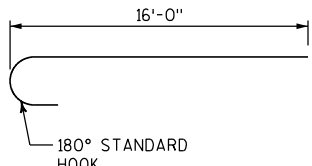
(LOOKING SOUTH)



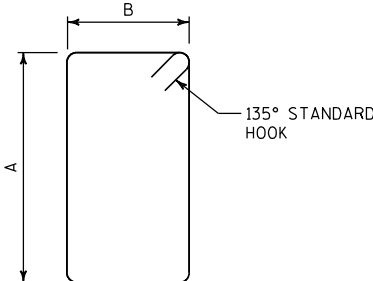
PLAN



A415

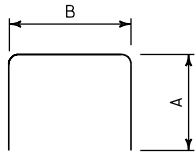


A808



BAR MARK	DIM "A"	DIM "B"
A510	2'-2"	1'-3"
A514	4'-4"	2'-2"
A518	6'-11"	2'-11"

A510, A514, A518



BAR MARK	DIM "A"	DIM "B"
A411	1'-3"	1"
A512	3'-5" TO 3'-10"	2'-2"
A513	1'-4" TO 3'-10"	2'-2"
A517	5'-9"	1'-1"

A411, A512, A513, A517

BAR SERIES TABLE

BAR MARK	NO. REQ'D	LENGTH
A512	1 SERIES OF 14	8'-9" TO 9'-7"
A513	1 SERIES OF 54	4'-7" TO 9'-7"

NOTES

- (A01) PIPE UNDERDRAIN WRAPPED (6-INCH), SLOPE 0.5% MIN TO DRAIN.
- (A02) 4"x3/4" FILLER
- (A03) VERTICAL CONSTRUCTION JOINT KEYWAY FORMED BY BEVELED 2" X 8"
- (A04) PLACE STIRRUPS AND U-SHAPED BARS NORMAL TO ABUT. BODY
- (A05) FOR WINGWALL REINFORCING DETAILS, SEE SHEET 9
- (A06) 18" RUBBERIZED MEMBRANE WATERPROOFING SEAL ALL HORIZONTAL AND VERTICAL JOINTS ON BACKFACE OF ABUTMENT
- (A07) PIPE UNDERDRAIN WRAPPED (6-INCH), LOCATE TO SUITABLE DRAINAGE.

BILL OF BARS

BAR MARK	COAT	NO.	LENGTH	BENT	BAR SERIES	LOCATION
A401	X	5	38'-2"			BEAM
A402	X	2	41'-2"			BEAM
A403	X	3	31'-0"			BEAM
A604	X	15	38'-2"			BODY - HORIZ.
A605	X	2	23'-4"			BODY - HORIZ.
A606	X	18	43'-7"			BODY - HORIZ.
A607	X	7	27'-7"			BODY - HORIZ.
A808	X	7	17'-2"	X		BODY - HORIZ.
A509	X	4	3'-9"			BODY - MEDIAN VERT.
A510	X	4	7'-5"	X		BODY - MEDIAN STIRRUP
A411	X	51	3'-3"	X		BEAM
A512	X	14	9'-2"	X	△	BEAM
A513	X	54	7'-1"	X	△	BEAM
A514	X	96	13'-7"	X		BODY - STIRRUP
A415	X	11	28'-0"	X		BODY PILES - 1 PER PILE
A416	X	22	2'-3"			BODY PILES - 2 PER PILE
A517	X	22	12'-4"	X		WING - STIRRUP
A518	X	10	20'-3"	X		WING - STIRRUP
A619	X	2	15'-7"			WING - HORIZ.
A420	X	5	15'-7"			WING - HORIZ.
A421	X	8	7'-9"			WING - HORIZ.
A522	X	8	11'-10"			WING - HORIZ.
A623	X	10	11'-2"			WING - HORIZ.

△ LENGTH SHOWN FOR BAR IS AVERAGE LENGTH AND SHOULD ONLY BE USED FOR BAR WEIGHT CALCULATION. (SEE BAR SERIES TABLE FOR ACTUAL LENGTH)

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
STRUCTURE B-40-803			
DRAWN BY		DGS	PLANS CK'D. KES
SOUTH ABUTMENT			SHEET 5 OF 25

◇ DYNAMIC PILE LOAD TESTING

(A07) LOCATION AND PROJECTION OF EXISTING BATTERED PILES IS SHOWN BASED ON EXISTING STRUCTURE PLANS. VERIFY EXISTING PILE LOCATIONS IMMEDIATELY AFTER EXPOSURE AND NOTIFY THE ENGINEER OF ANY EXISTING PILES THAT INTERFERE WITH PROPOSED NEW PILES.

IF NECESSARY, PROPOSED PILES THAT CONFLICT WITH EXISTING PILES MAY BE RELOCATED NOT MORE THAN 1'-0" ALONG C BRG FROM THE PROPOSED LOCATION SHOWN IN THE PLAN TO AVOID CONFLICTING WITH THE EXISTING PILES. DISTANCE FROM EDGE OF PILING TO EDGE OF FOOTING SHALL BE 9" MIN.

(A08) ABUTMENT TO BE SUPPORTED ON HP12X53 STEEL PILING WITH A REQUIRED DRIVING RESISTANCE OF 96 TONS PER PILE ESTIMATED 40' LONG.

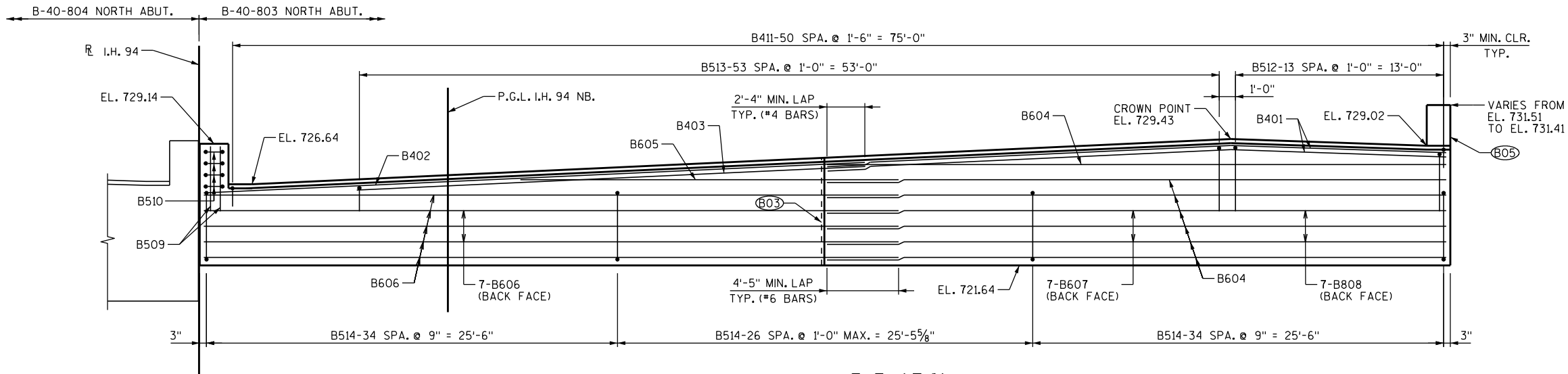
FOOTING PLAN

SECTION THRU ABUTMENT BODY

PILE SPLICE DETAIL

'HP' WELD DETAIL

FLANGE SHOWN, WEB SIMILAR



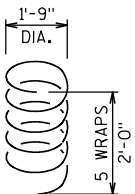
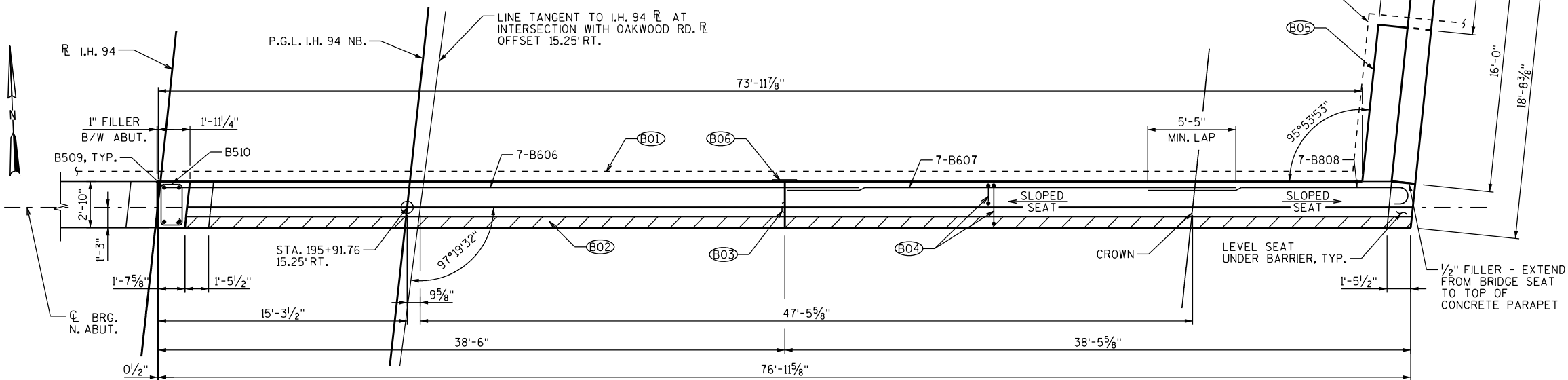
NOTES

- (B01) PIPE UNDERDRAIN WRAPPED (6-INCH), SLOPE 0.5% MIN TO DRAIN.
(B02) 4"X3/4" FILLER
(B03) VERTICAL CONSTRUCTION JOINT KEYWAY FORMED BY BEVELED 2" X 8"
(B04) PLACE STIRRUPS AND U-SHAPED BARS NORMAL TO ABUT. BODY
(B05) FOR WINGWALL REINFORCING DETAILS, SEE SHEET 9
(B06) 18" RUBBERIZED MEMBRANE WATERPROOFING SEAL ALL HORIZONTAL AND VERTICAL JOINTS ON BACKFACE OF ABUTMENT
(B07) PIPE UNDERDRAIN WRAPPED (6-INCH), LOCATE TO SUITABLE DRAINAGE.

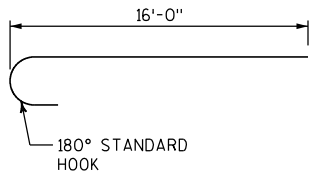
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B606	X	18	43'-1"			BODY - HORIZ.
B607	X	7	27'-6"			BODY - HORIZ.
B808	X	7	17'-2"	X		BODY - HORIZ.
B509	X	4	3'-9"			BODY - MEDIAN VERT.
B510	X	4	7'-5"	X		BODY - MEDIAN STIRRUP
B411	X	51	3'-3"	X		BEAM
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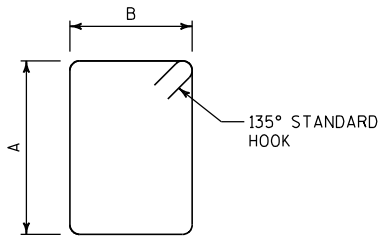
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B415

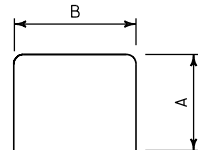


B808



BAR MARK	DIM "A"	DIM "B"
B510	2'-2"	1'-3"
B514	4'-4"	2'-2"
B518	6'-11"	2'-11"

B510, B514, B518



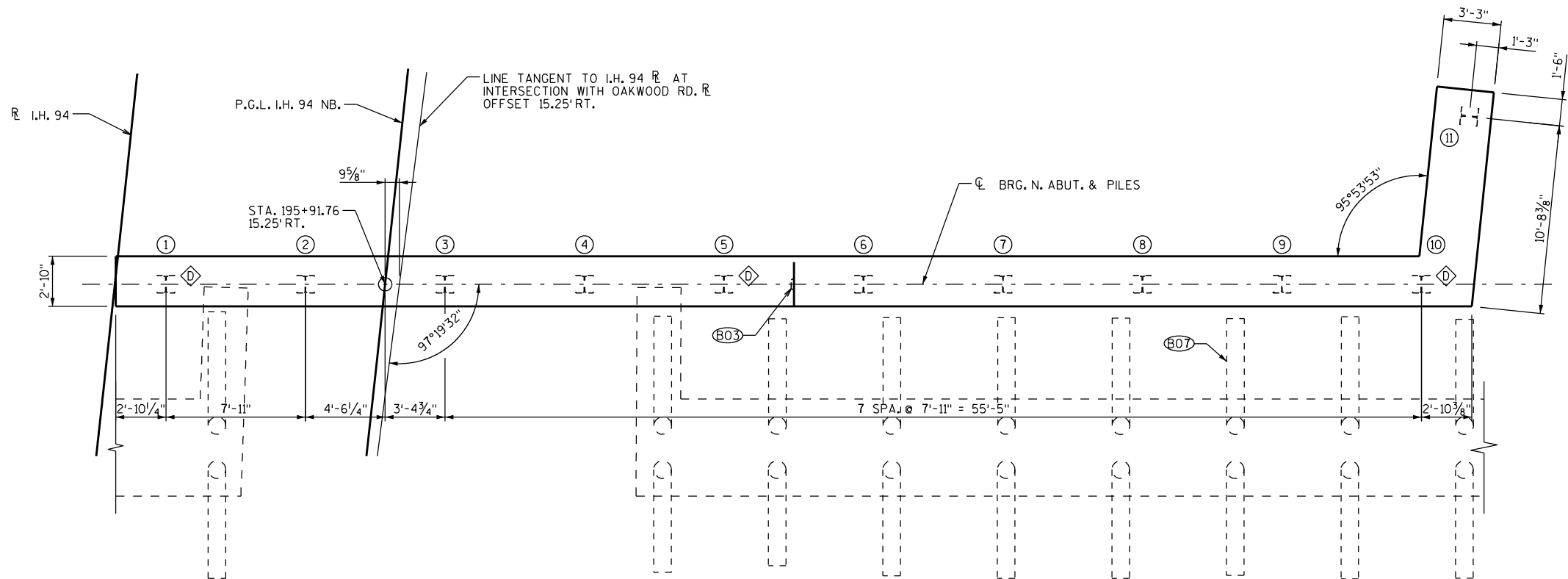
BAR MARK	DIM "A"	DIM "B"
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B411, B512, B513, B517

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BAR MARK	NO. REQ'D	LENGTH
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NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
STRUCTURE B-40-803			
DRAWN BY		DGS	PLANS CK'D. KES
NORTH ABUTMENT		SHEET 7 OF 25	



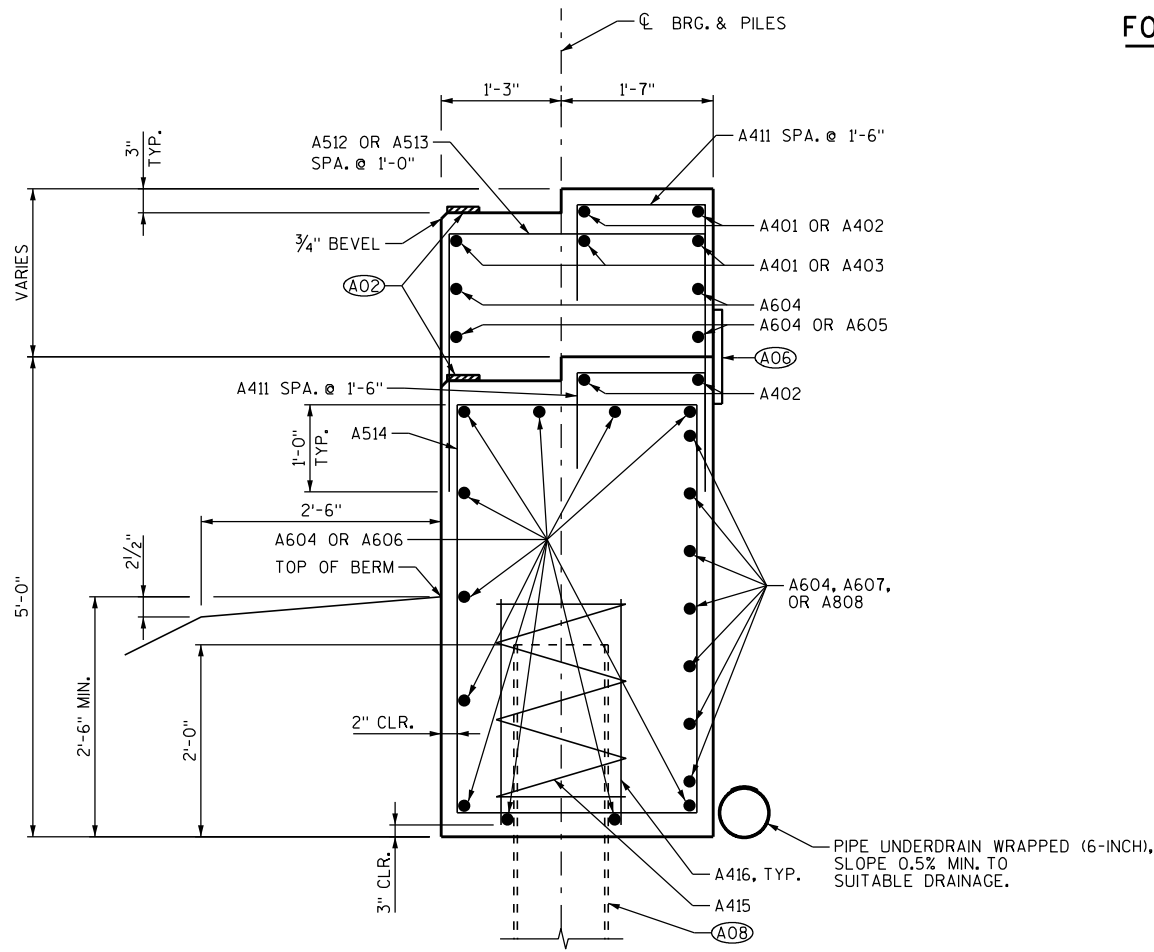
FOOTING PLAN

NOTES

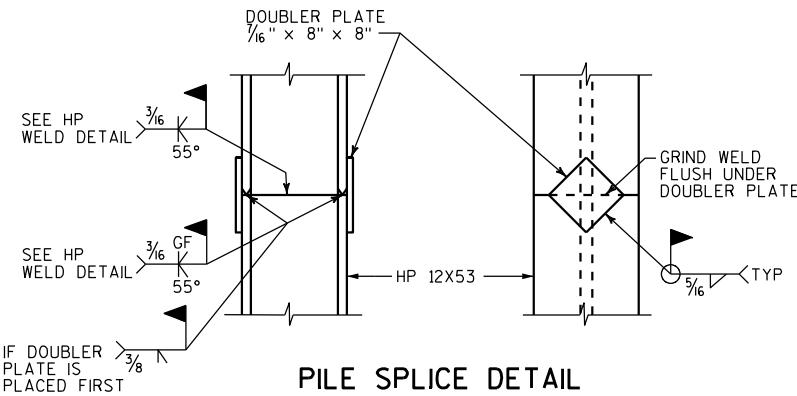
- (B02) 4"X3/4" FILLER
- (B03) VERTICAL CONSTRUCTION JOINT KEYWAY FORMED BY BEVELED 2" X 8"
- (B06) 18" RUBBERIZED MEMBRANE WATERPROOFING SEAL ALL HORIZONTAL AND VERTICAL JOINTS ON BACKFACE OF ABUTMENT

PILE NOTES

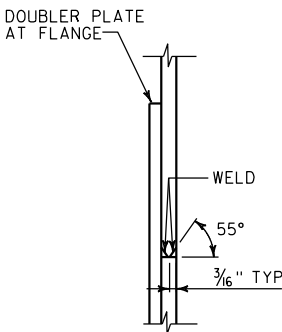
- (D) DYNAMIC PILE LOAD TESTING
- (B07) LOCATION AND PROJECTION OF EXISTING BATTERED PILES IS SHOWN BASED ON EXISTING STRUCTURE PLANS. VERIFY EXISTING PILE LOCATIONS IMMEDIATELY AFTER EXPOSURE AND NOTIFY THE ENGINEER OF ANY EXISTING PILES THAT INTERFERE WITH PROPOSED NEW PILES.
- IF NECESSARY, PROPOSED PILES THAT CONFLICT WITH EXISTING PILES MAY BE RELOCATED NOT MORE THAN 1'-0" ALONG CL BRG FROM THE PROPOSED LOCATION SHOWN IN THE PLAN TO AVOID CONFLICTING WITH THE EXISTING PILES. DISTANCE FROM EDGE OF PILING TO EDGE OF FOOTING SHALL BE 9" MIN.
- (B08) ABUTMENT TO BE SUPPORTED ON HP12X53 STEEL PILING WITH A REQUIRED DRIVING RESISTANCE OF 96 TONS PER PILE ESTIMATED 40' LONG.



SECTION THRU ABUTMENT BODY

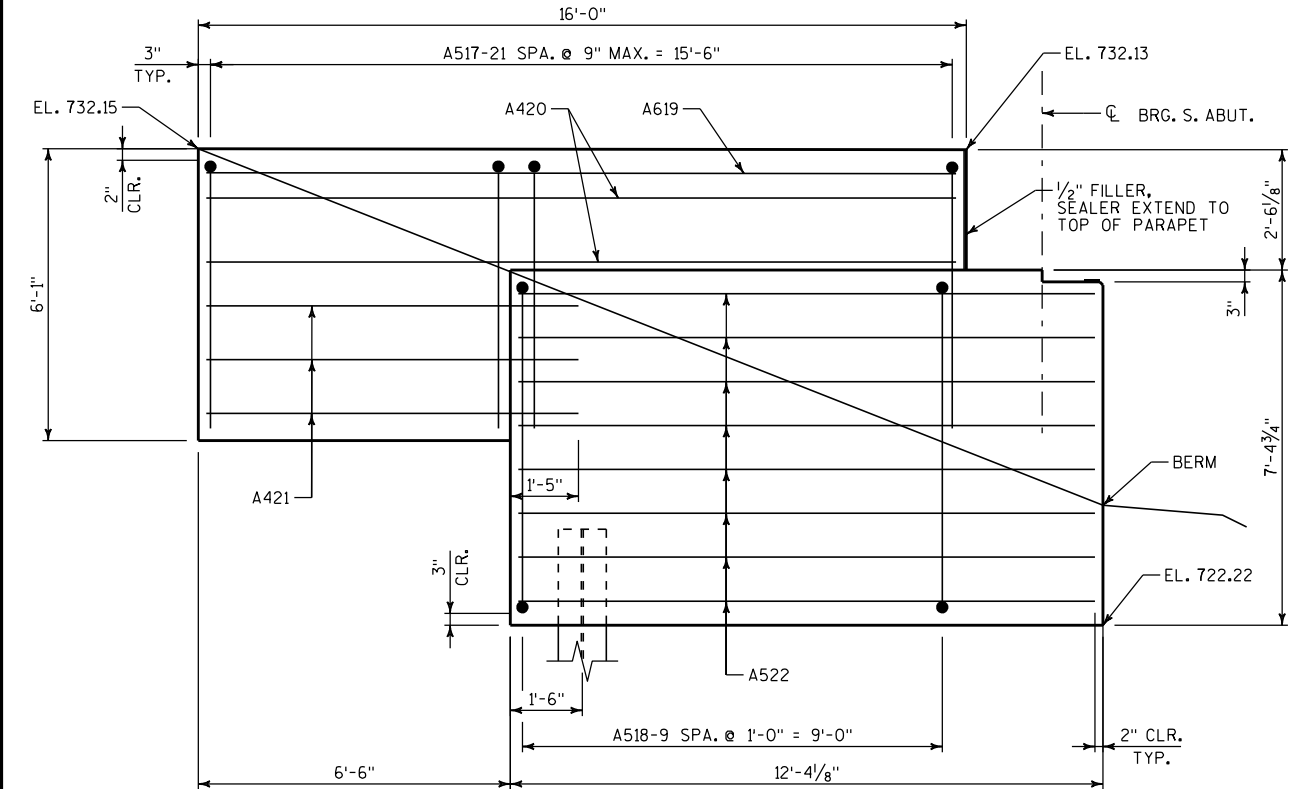


PILE SPLICE DETAIL

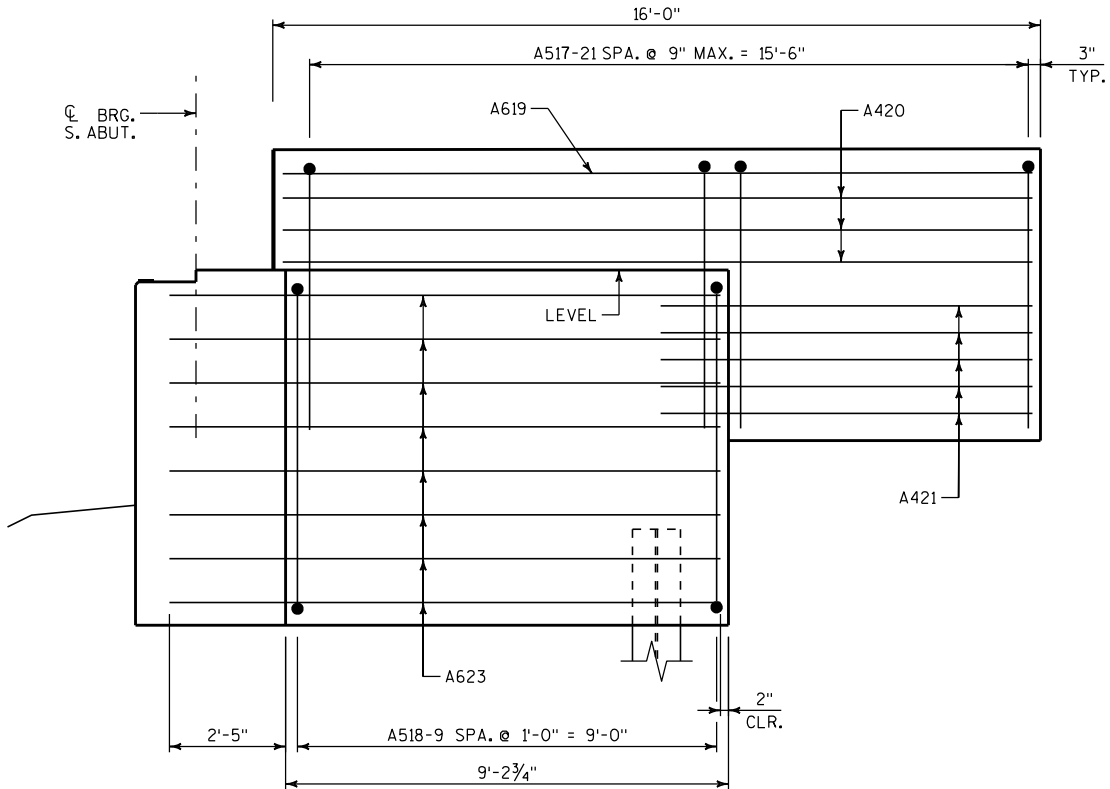


'HP' WELD DETAIL
FLANGE SHOWN, WEB SIMILAR

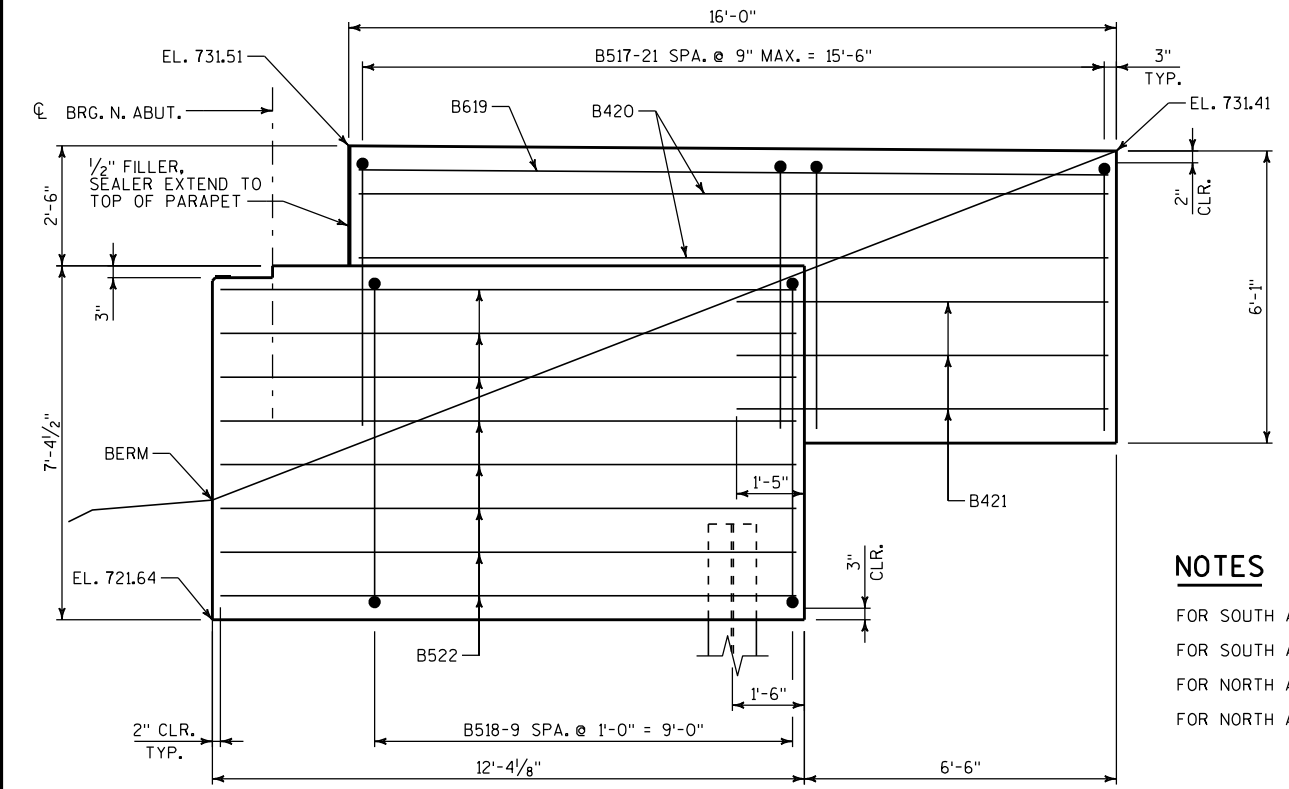
NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
STRUCTURE B-40-803			
DRAWN BY		DGS	PLANS CK'D. KES
NORTH ABUTMENT DETAILS			SHEET 8 OF 25



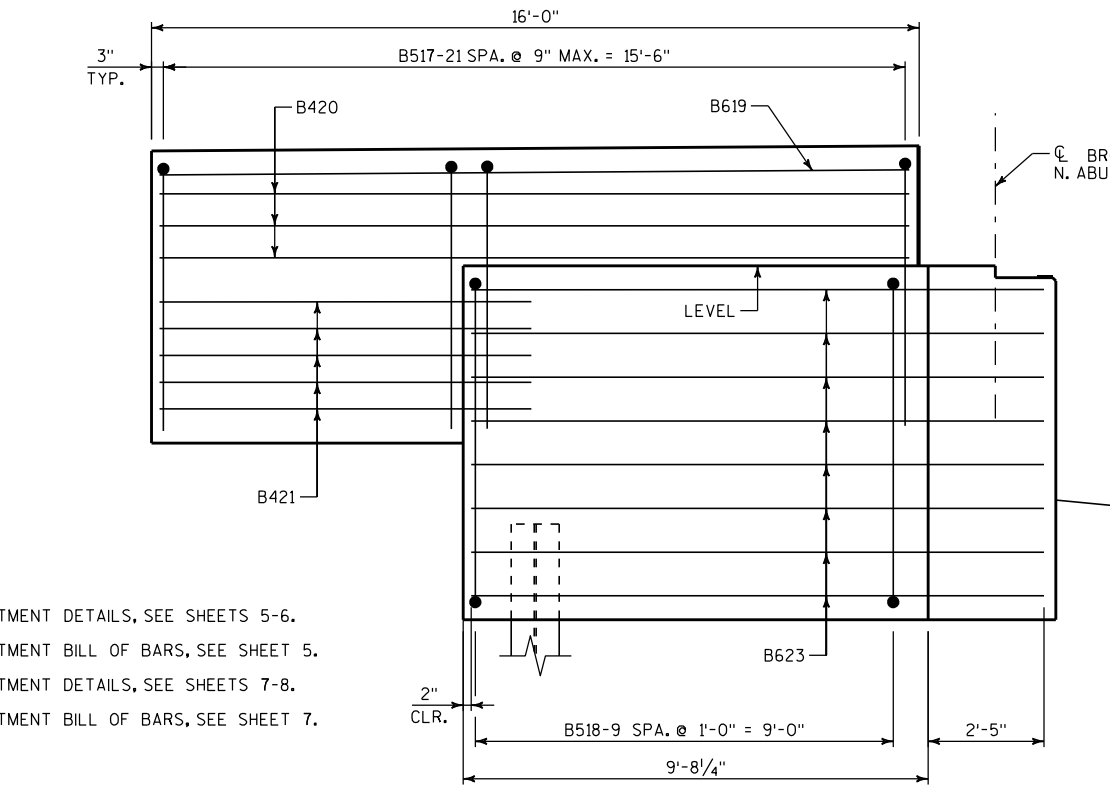
SOUTH ABUT. WINGWALL ELEVATION
(FRONT FACE)



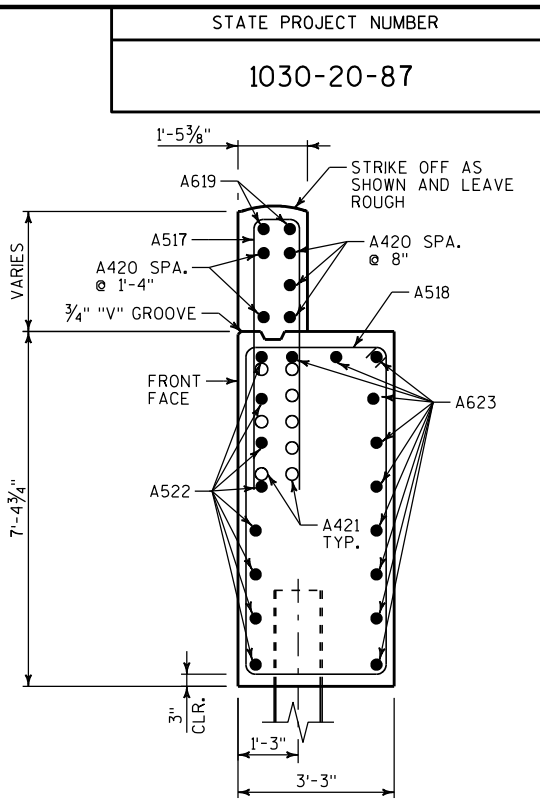
SOUTH ABUT. WINGWALL ELEVATION
(BACK FACE)



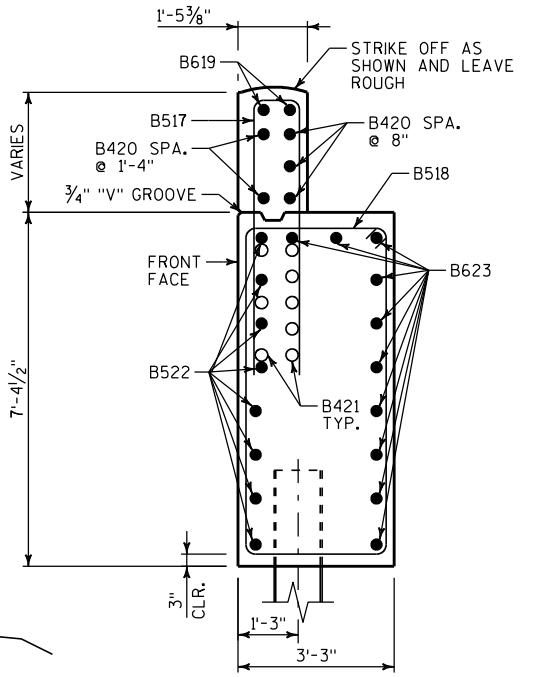
NORTH ABUT. WINGWALL ELEVATION
(FRONT FACE)



NORTH ABUT. WINGWALL ELEVATION
(BACK FACE)



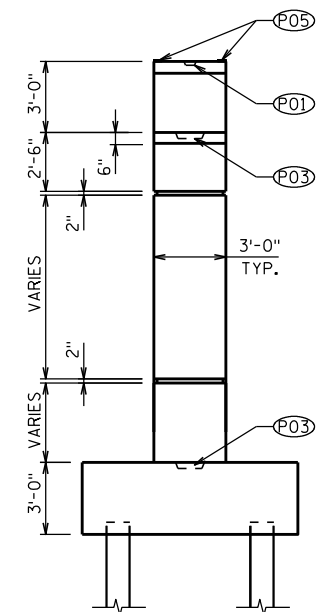
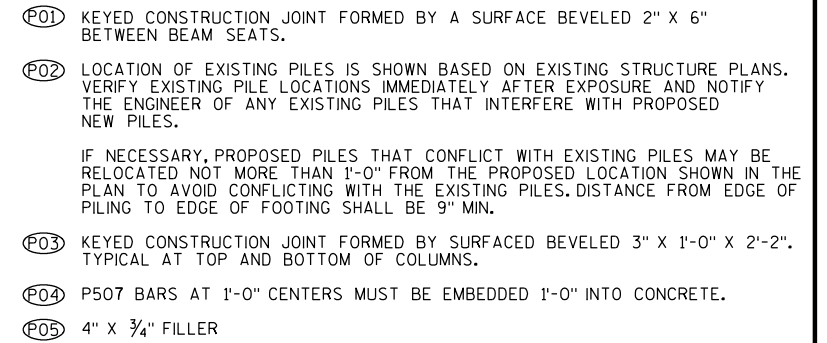
SOUTH ABUT. WINGWALL SECTION



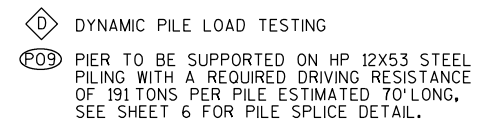
NORTH ABUT. WINGWALL SECTION

NOTES
FOR SOUTH ABUTMENT DETAILS, SEE SHEETS 5-6.
FOR SOUTH ABUTMENT BILL OF BARS, SEE SHEET 5.
FOR NORTH ABUTMENT DETAILS, SEE SHEETS 7-8.
FOR NORTH ABUTMENT BILL OF BARS, SEE SHEET 7.

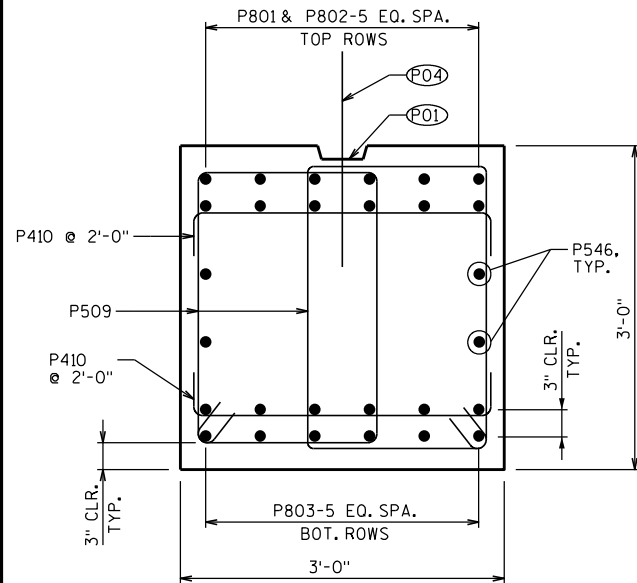
NO.	DATE	REVISION	BY
		STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
		STRUCTURE B-40-803	
		DRAWN BY DGS	PLANS CK'D. KES
		ABUTMENT WINGWALL DETAILS	SHEET 9 OF 25



SEE SHEET 11 FOR COLUMN REINFORCING DETAIL

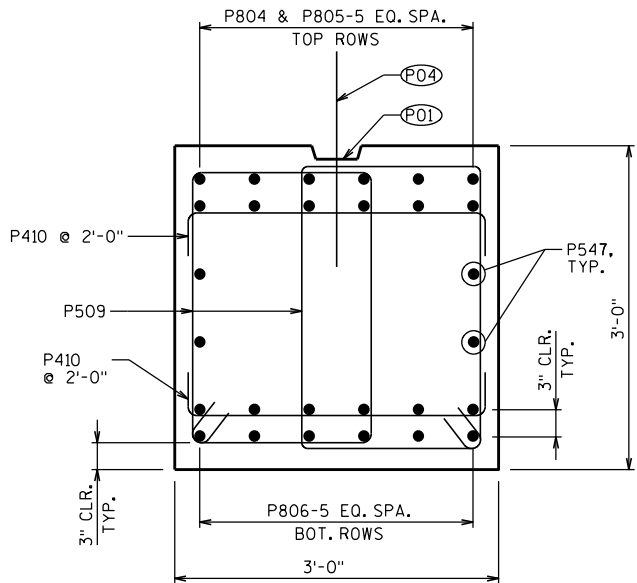


NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
STRUCTURE B-40-803			
DRAWN BY		JBA	PLANS CK'D. KES
PIER 1			SHEET 10 OF 25



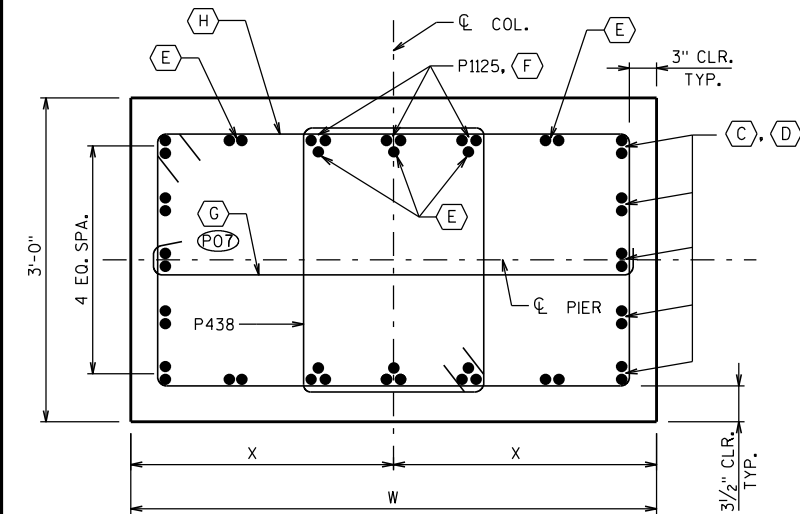
SECTION A-A

SEE SHEET 11 FOR LOCATION

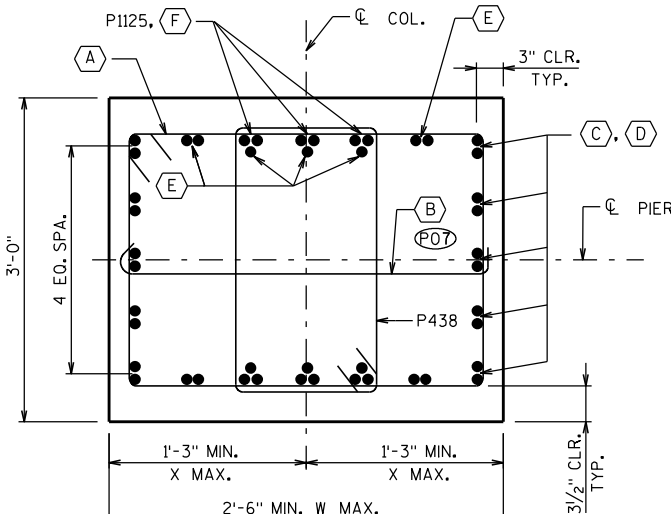


SECTION B-B

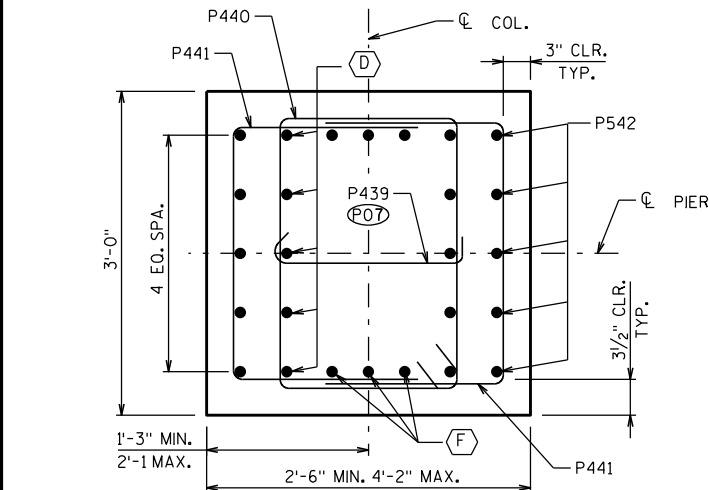
SEE SHEET 11 FOR LOCATION



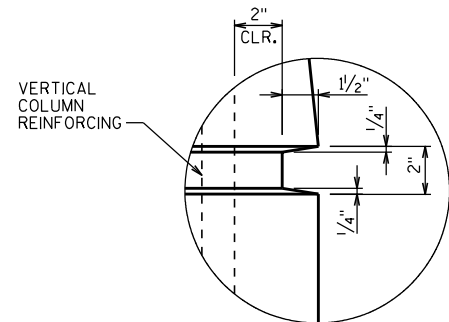
SECTION C-C



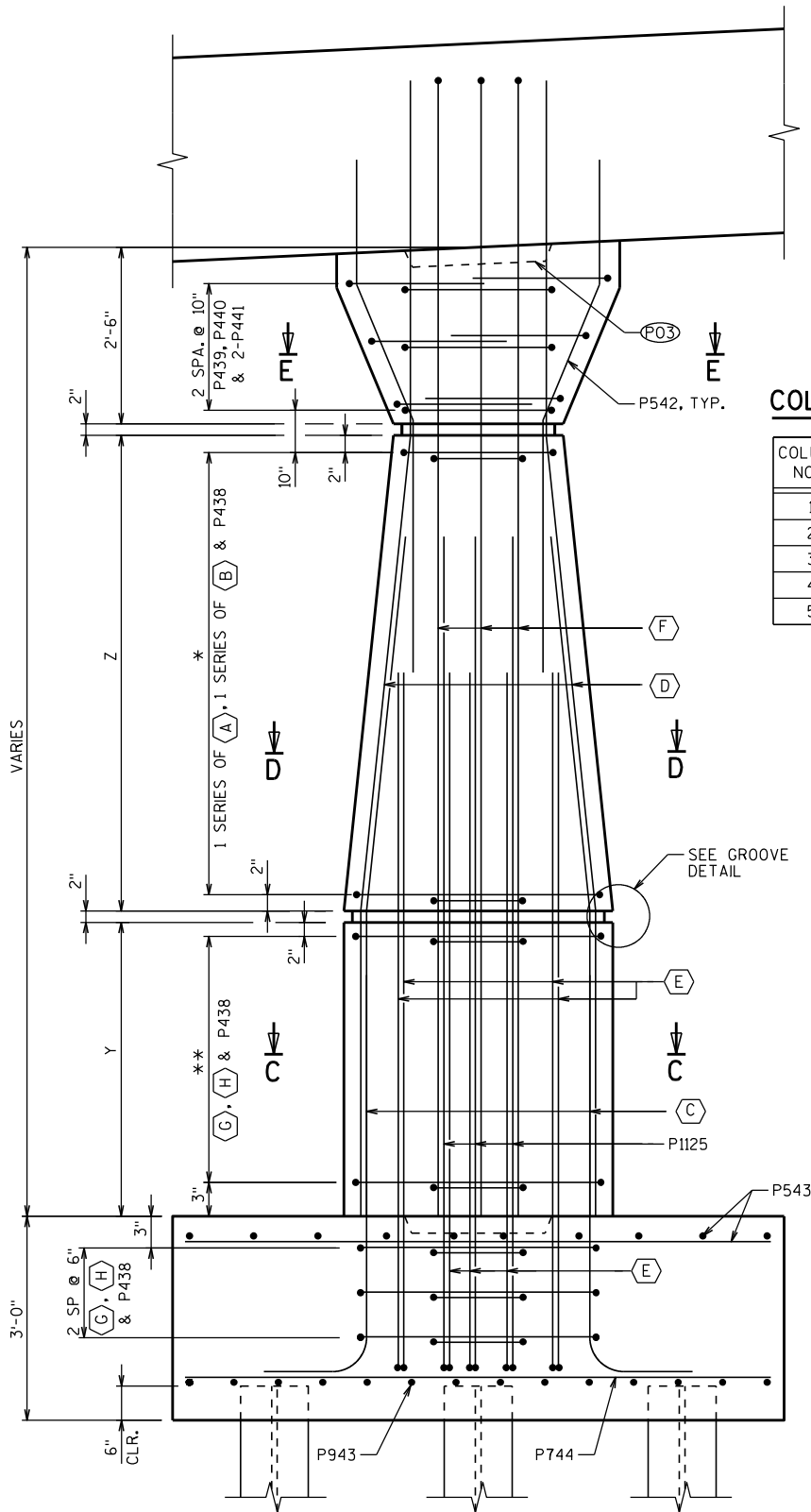
SECTION D-D



SECTION E-E



GROOVE DETAIL



COLUMN ELEVATION

COLUMN DATA

COLUMN NO.	W	X	Y	Z
1	4'-4 1/2"	2'-2 1/4"	4'-5 3/4"	9'-0"
2	4'-4 1/2"	2'-2 1/4"	5'-2 7/8"	9'-0"
3	4'-7"	2'-3 1/2"	5'-0 1/8"	10'-0"
4	4'-9 1/2"	2'-4 3/4"	4'-9 1/4"	11'-0"
5	4'-9 1/2"	2'-4 3/4"	4'-9 7/8"	11'-0"

COLUMN TIES

COLUMN NO.	*	(A)	(B)	**	(G)	(H)
1	17 EQ SPA	P426	P429	8 EQ SPA	P432	P435
2	17 EQ SPA	P426	P429	10 EQ SPA	P432	P435
3	19 EQ SPA	P427	P430	10 EQ SPA	P433	P436
4	21 EQ SPA	P428	P431	9 EQ SPA	P434	P437
5	21 EQ SPA	P428	P431	9 EQ SPA	P434	P437

COLUMN VERTICAL REINF.

COLUMN NO.	(C)	(D)	(E)	(F)
1	P1111	P1117	P1115	P1121
2	P1112	P1118	P1116	P1122
3	P1113	P1119	P1116	P1123
4 & 5	P1114	P1120	P1116	P1124

- (P01) KEYED CONSTRUCTION JOINT FORMED BY A SURFACE BEVELED 2" X 6" BETWEEN BEAM SEATS.
- (P03) KEYED CONSTRUCTION JOINT FORMED BY SURFACED BEVELED 3" X 1'-0" X 2'-2". TYPICAL AT TOP AND BOTTOM OF COLUMNS.
- (P04) P507 BARS AT 1'-0" CENTERS MUST BE EMBEDDED 1'-0" INTO CONCRETE.
- (P07) ALTERNATE HOOKED ENDS OF P416 TIES.

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
STRUCTURE B-40-803			
DRAWN BY JBA		PLANS CK'D. KES	
PIER 1 DETAILS (1 OF 2)			SHEET 11 OF 25

BAR SERIES TABLE

COLUMN NO.	BAR MARK	NO. REQ'D	LENGTH
1, 2	P426	2 SERIES OF 18	9'-4" TO 13'-0"
3	P427	1 SERIES OF 20	9'-4" TO 13'-6"
4, 5	P428	2 SERIES OF 22	9'-4" TO 13'-10"
1, 2	P429	2 SERIES OF 18	2'-11" TO 4'-10 1/2"
2	P430	1 SERIES OF 20	2'-11" TO 5'-0 1/2"
4, 5	P431	2 SERIES OF 22	2'-11" TO 5'-2 1/2"

COLUMN NO.	BAR MARK	A	B
1	P1111	6'-10"	5'-7"
2	P1112	7'-6"	4'-11"
3	P1113	7'-4"	5'-1"
4 & 5	P1114	7'-0"	5'-5"

P1111, P1112, P1113, P1114

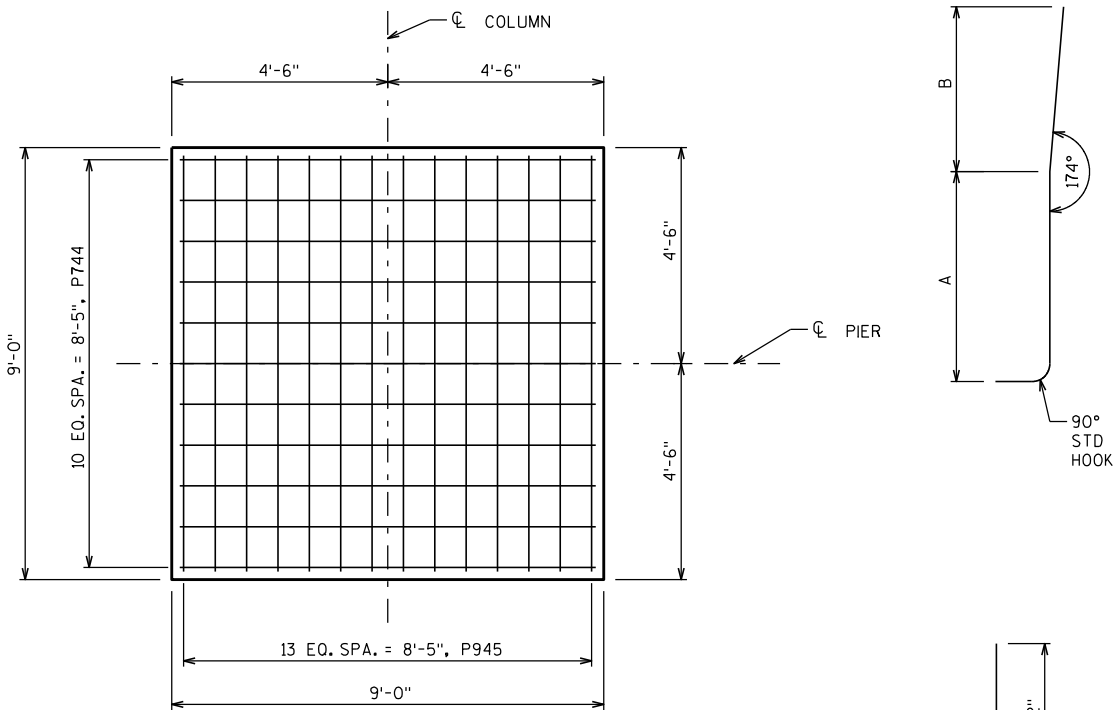
BAR MARK	A	B
P508	2'-2"	1'-8"
P509	2'-6"	1'-8"
P426	2'-5"	2'-0" TO 3'-10"
P427	2'-5"	2'-0" TO 4'-1"
P428	2'-5"	2'-0" TO 4'-3"
P435	2'-5"	3'-10"
P436	2'-5"	4'-1"
P437	2'-5"	4'-3"
P438	2'-5"	1'-6"
P440	2'-5"	2'-3"

P508, P509, P426, P427, P428, P435, P436, P437, P438, P440

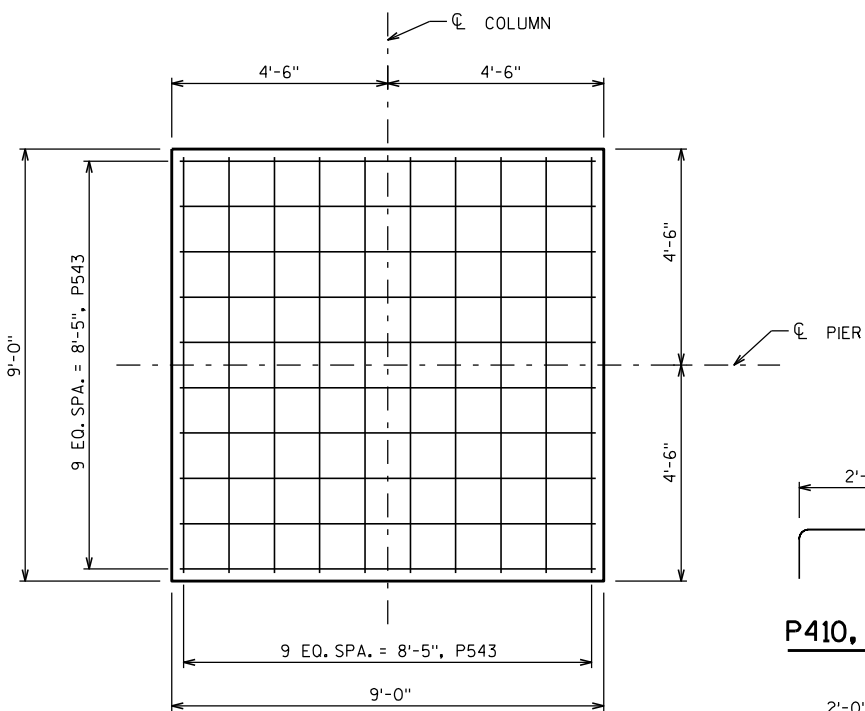
BILL OF BARS

BAR MARK	COAT	NO. REQ'D	LENGTH	BENT	BAR SERIES	LOCATION
P801	X	6	42'-10"	X		PIER CAP TOP
P802	X	6	41'-11"	X		PIER CAP TOP
P803	X	12	39'-9"			PIER CAP BOTTOM
P804	X	6	42'-7"			PIER CAP TOP
P805	X	6	42'-0"	X		PIER CAP TOP
P806	X	12	39'-9"	X		PIER CAP BOTTOM
P507	X	73	2'-0"			PIER CAP - DOWEL - VERT
P508	X	4	8'-3"	X		PIER CAP STIRRUP
P509	X	220	8'-11"	X		PIER CAP STIRRUP
P410	X	74	3'-5"	X		PIER CAP - TIE
P1111	X	10	14'-1"	X		COLUMN 1 - VERT - FTG DOWEL
P1112	X	10	14'-1"	X		COLUMN 2 - VERT - FTG DOWEL
P1113	X	10	14'-1"	X		COLUMN 3 - VERT FTG DOWEL
P1114	X	20	14'-1"	X		COL 4-5 - VERT - FTG DOWEL
P1115	X	14	12'-2"	X		COLUMN 1 - VERT - FTG DOWEL
P1116	X	56	12'-8"	X		COL 2-5 - VERT - FTG DOWEL
P1117	X	10	18'-8"	X		COLUMN 1 - VERT
P1118	X	10	19'-7"	X		COLUMN 2 - VERT
P1119	X	10	20'-6"	X		COLUMN 3 - VERT
P1120	X	20	21'-4"	X		COLUMN 4 & 5 - VERT
P1121	X	6	19'-11"	X		COLUMN 1 - VERT - TOP
P1122	X	6	20'-9"	X		COLUMN 2 - VERT - TOP
P1123	X	6	21'-6"	X		COLUMN 3 - VERT - TOP
P1124	X	12	22'-3"	X		COLUMN 4 & 5 - VERT - TOP
P1125	X	30	14'-2"	X		COL 1-5 - VERT - FTG DOWEL
P426	X	36	11'-2"	X	△	COLUMN 1 - TIES - MIDDLE
P427	X	20	11'-5"	X	△	COLUMN 2 & 3 - TIES - MIDDLE
P428	X	44	11'-7"	X	△	COLUMN 4 & 5 - TIES - MIDDLE
P429	X	36	3'-11"	X	△	COLUMN 1 - TIES - MIDDLE
P430	X	20	4'-0"	X	△	COLUMN 2 & 3 - TIES - MIDDLE
P431	X	44	4'-1"	X	△	COLUMN 4 & 5 - TIES - MIDDLE
P432	X	26	4'-10"	X		COLUMN 1 - TIES - BOTTOM
P433	X	14	5'-0"	X		COLUMN 2 & 3 - TIES - BOTT
P434	X	26	5'-3"	X		COLUMN 4 & 5 - TIES - BOTT
P435	X	26	13'-0"	X		COLUMN 1 - TIES - BOTTOM
P436	X	14	13'-6"	X		COLUMN 2 & 3 - TIES - BOTT
P437	X	26	13'-10"	X		COLUMN 4 & 5 - TIES - BOTT
P438	X	66	7'-10"			COLUMN - TIES
P439	X	15	3'-3"	X		COLUMN - TIES - TOP
P440	X	15	9'-4"			COLUMN - TIES - TOP
P441	X	30	6'-3"	X		COLUMN - TIES - TOP
P542	X	50	10'-1"	X		COLUMN - VERT - TOP
P543		100	8'-6"			FOOTING - TOP
P744		55	8'-6"			FOOTING - BOTTOM
P945		70	8'-6"			FOOTING - BOTTOM
P546	X	4	45'-0"			PIER CAP - HORIZ - SIDES
P547	X	4	33'-2"	X		PIER CAP - HORIZ - SIDES
P548	X	8	8'-4"	X		PIER CAP - HORIZ - ENDS

FOOTING BOT. REINFORCEMENT PLAN



FOOTING TOP REINFORCEMENT PLAN

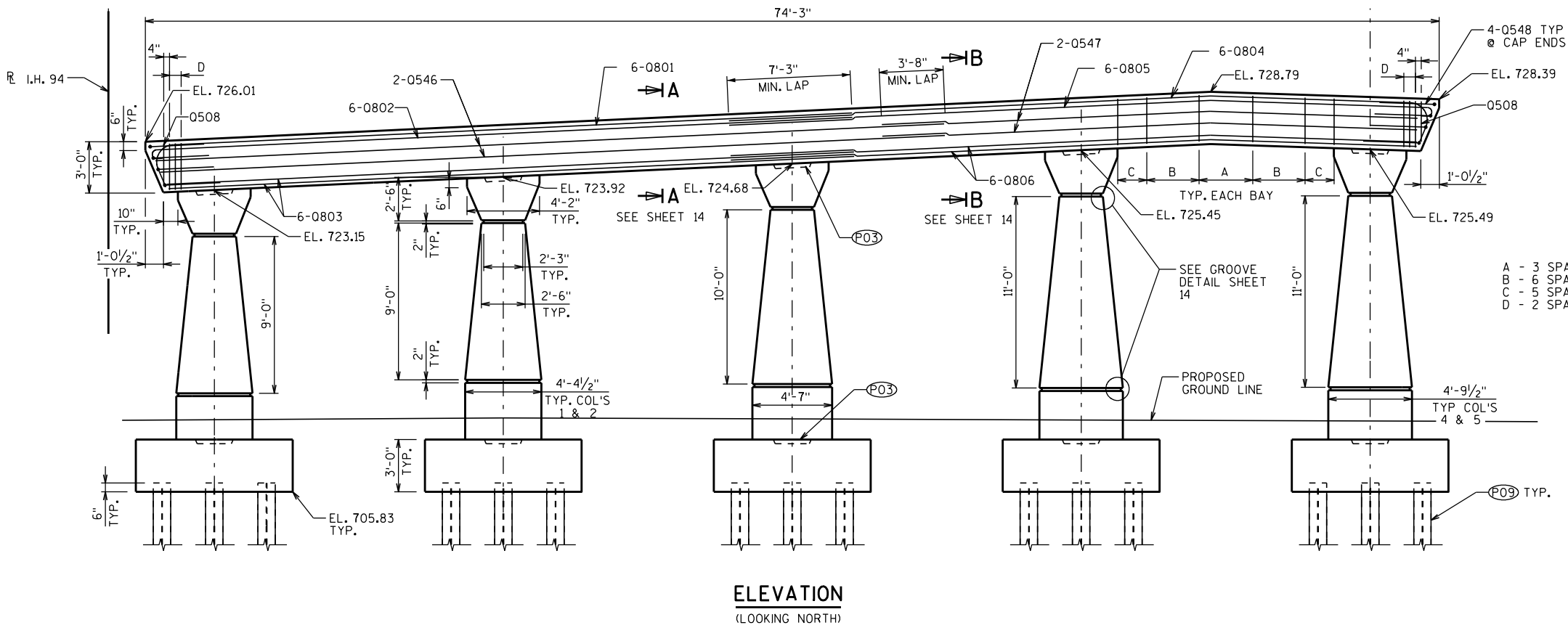
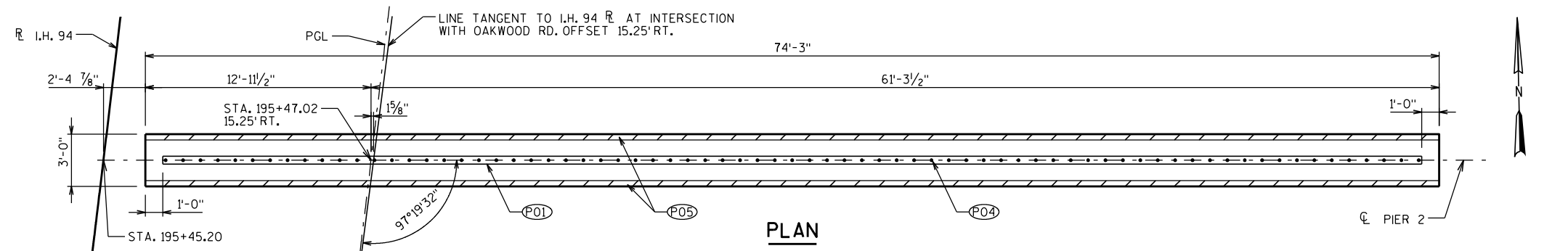


COLUMN NO.	BAR MARK	A	B	C
1	P1117	4'-6"	9'-2"	11"
2	P1118	5'-5"	9'-2"	11"
3	P1119	5'-2"	10'-2"	1'-1"
4 & 5	P1120	4'-11"	11'-2"	1'-2"

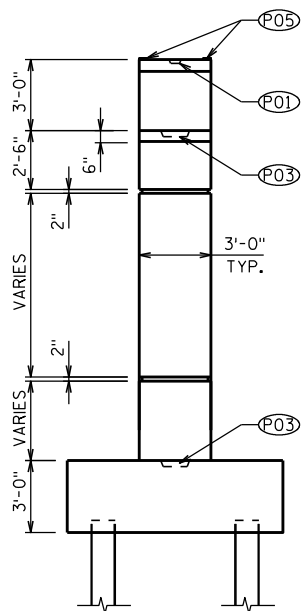
P1117, P1118, P1119, P1120**P542****P806, P547, P849****P410, P548****P441****P1115, P1116, P1125****P1121, P1122, P1123, P1124****P429, P430, P431, P432, P433, P434, P439**

△ LENGTH SHOWN FOR BAR IS AN AVERAGE LENGTH AND SHOULD ONLY BE USED FOR BAR WEIGHT CALCULATION (SEE BAR SERIES TABLE FOR ACTUAL LENGTH)

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
STRUCTURE B-40-803			
DRAWN BY		JBA	PLANS CK'D. KES
PIER 1 DETAILS (2 OF 2)		SHEET 12 OF 25	



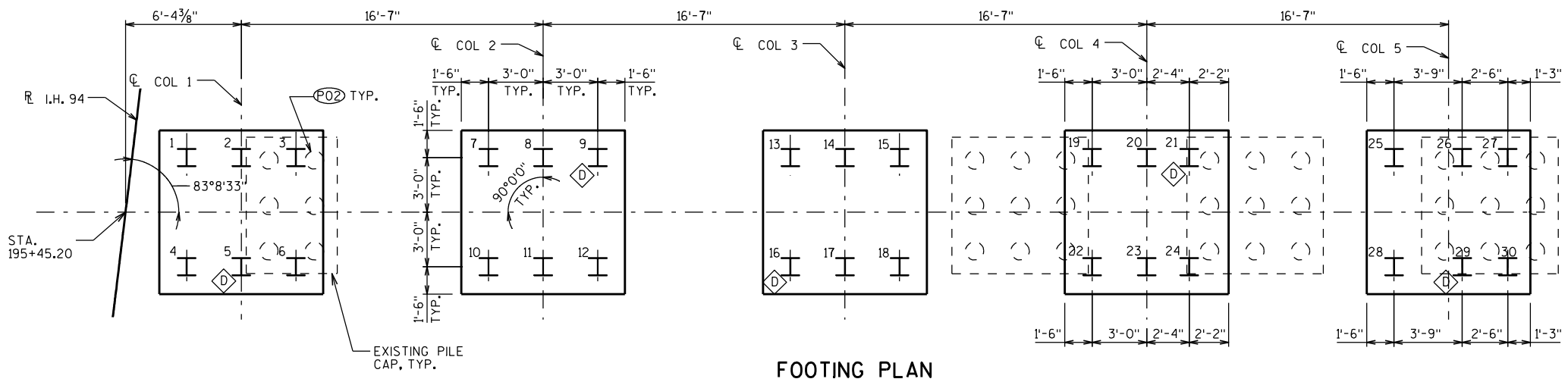
- (P01) KEYED CONSTRUCTION JOINT FORMED BY A SURFACE BEVELED 2" X 6" BETWEEN BEAM SEATS.
- (P02) LOCATION OF EXISTING PILES IS SHOWN BASED ON EXISTING STRUCTURE PLANS. VERIFY EXISTING PILE LOCATIONS IMMEDIATELY AFTER EXPOSURE AND NOTIFY THE ENGINEER OF ANY EXISTING PILES THAT INTERFERE WITH PROPOSED NEW PILES.
- IF NECESSARY, PROPOSED PILES THAT CONFLICT WITH EXISTING PILES MAY BE RELOCATED NOT MORE THAN 1'-0" FROM THE PROPOSED LOCATION SHOWN IN THE PLAN TO AVOID CONFLICTING WITH THE EXISTING PILES. DISTANCE FROM EDGE OF PILING TO EDGE OF FOOTING SHALL BE 9" MIN.
- (P03) KEYED CONSTRUCTION JOINT FORMED BY SURFACED BEVELED 3" X 1'-0" X 2'-2", TYPICAL AT TOP AND BOTTOM OF COLUMNS.
- (P04) 0507 BARS AT 1'-0" CENTERS MUST BE EMBEDDED 1'-0" INTO CONCRETE.
- (P05) 4" X 3/4" FILLER



SEE SHEET 14 FOR COLUMN REINFORCING DETAIL

PILE NOTES

- (D) DYNAMIC PILE LOAD TESTING
- (P09) PIER TO BE SUPPORTED ON HP 12X53 STEEL PILING WITH A REQUIRED DRIVING RESISTANCE OF 191 TONS PER PILE ESTIMATED 70' LONG, SEE SHEET 6 FOR PILE SPLICE DETAIL.



NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
STRUCTURE B-40-803			
DRAWN BY JBA		PLANS CK'D. KES	
PIER 2		SHEET 13 OF 25	

COLUMN DATA

COLUMN NO.	W	X	Y	Z
1	4'-4 1/2"	2'-2 1/4"	4'-5 3/4"	9'-0"
2	4'-4 1/2"	2'-2 1/4"	5'-2 7/8"	9'-0"
3	4'-7"	2'-3 1/2"	5'-0 1/8"	10'-0"
4	4'-9 1/2"	2'-4 3/4"	4'-9 1/4"	11'-0"
5	4'-9 1/2"	2'-4 3/4"	4'-9 7/8"	11'-0"

COLUMN TIES

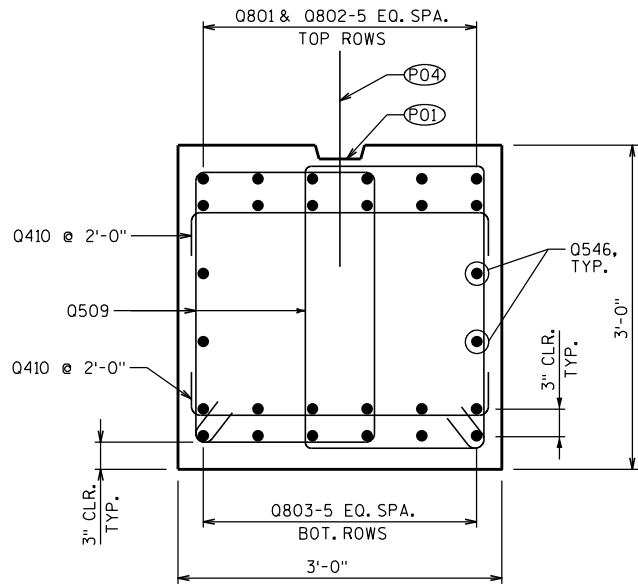
COLUMN NO.	*	(A)	(B)	**	(G)	(H)
1	17 EQ SPA	Q426	Q429	8 EQ SPA	Q432	Q435
2	17 EQ SPA	Q426	Q429	10 EQ SPA	Q432	Q435
3	19 EQ SPA	Q427	Q430	10 EQ SPA	Q433	Q436
4	21 EQ SPA	Q428	Q431	9 EQ SPA	Q434	Q437
5	21 EQ SPA	Q428	Q431	9 EQ SPA	Q434	Q437

COLUMN VERTICAL REINF.

COLUMN NO.	(C)	(D)	(E)	(F)
1	Q1111	Q1117	Q1115	Q1121
2	Q1112	Q1118	Q1116	Q1122
3	Q1113	Q1119	Q1116	Q1123
4 & 5	Q1114	Q1120	Q1116	Q1124

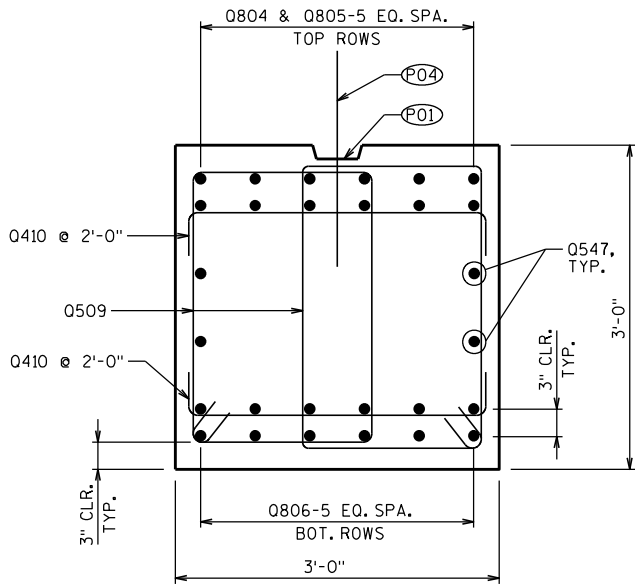
- (P01) KEYED CONSTRUCTION JOINT FORMED BY A SURFACE BEVELED 2" X 6" BETWEEN BEAM SEATS.
- (P03) KEYED CONSTRUCTION JOINT FORMED BY SURFACED BEVELED 3" X 1'-0" X 2'-2". TYPICAL AT TOP AND BOTTOM OF COLUMNS.
- (P04) Q507 BARS AT 1'-0" CENTERS MUST BE EMBEDDED 1'-0" INTO CONCRETE.
- (P07) ALTERNATE HOOKED ENDS OF TIES.

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
STRUCTURE B-40-803			
DRAWN BY JBA		PLANS CK'D. KES	
PIER 2 DETAILS (1 OF 2)			SHEET 14 OF 25



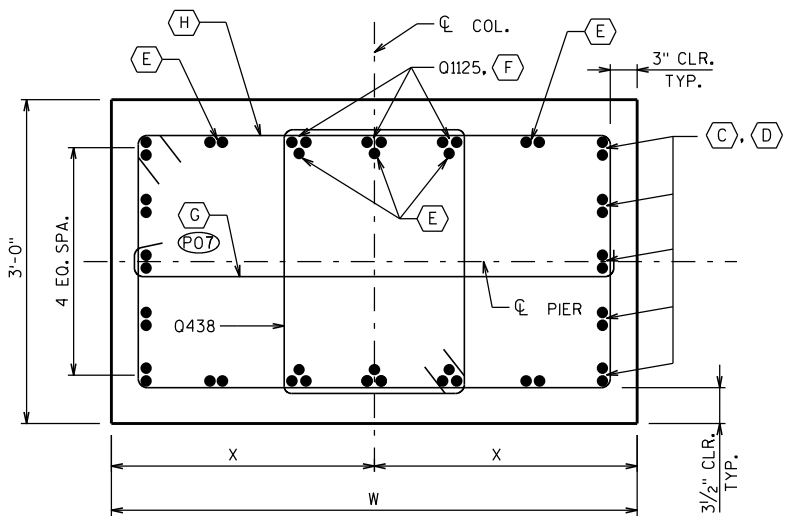
SECTION A-A

SEE SHEET 11 FOR LOCATION

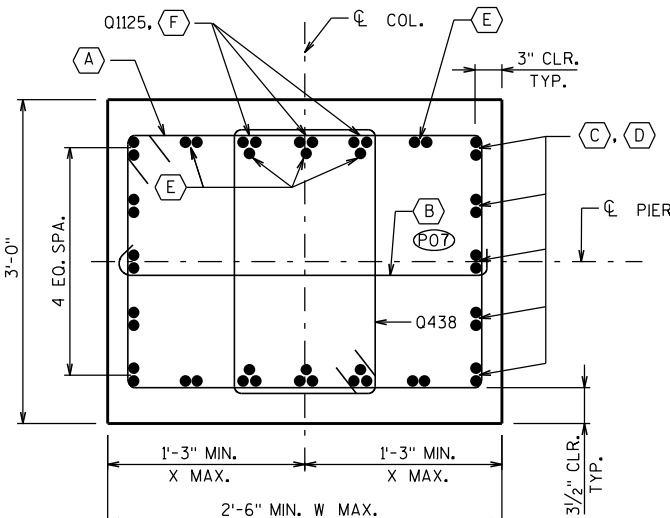


SECTION B-B

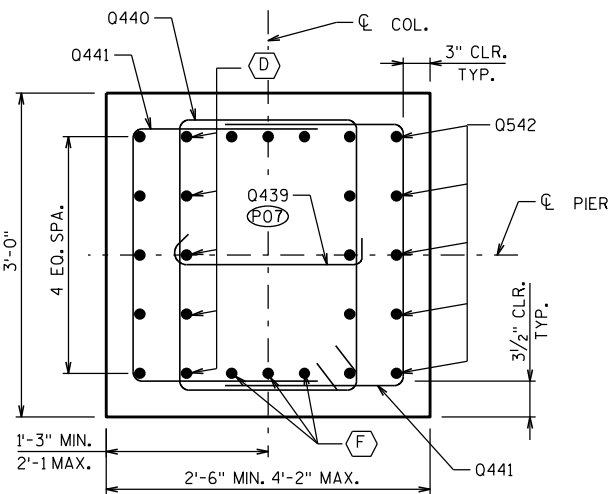
SEE SHEET 11 FOR LOCATION



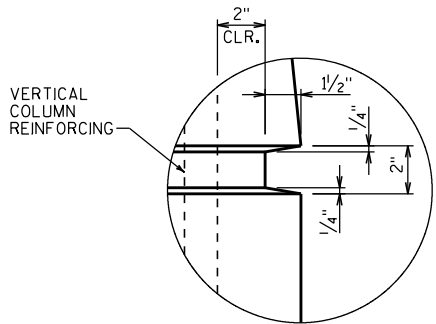
SECTION C-C



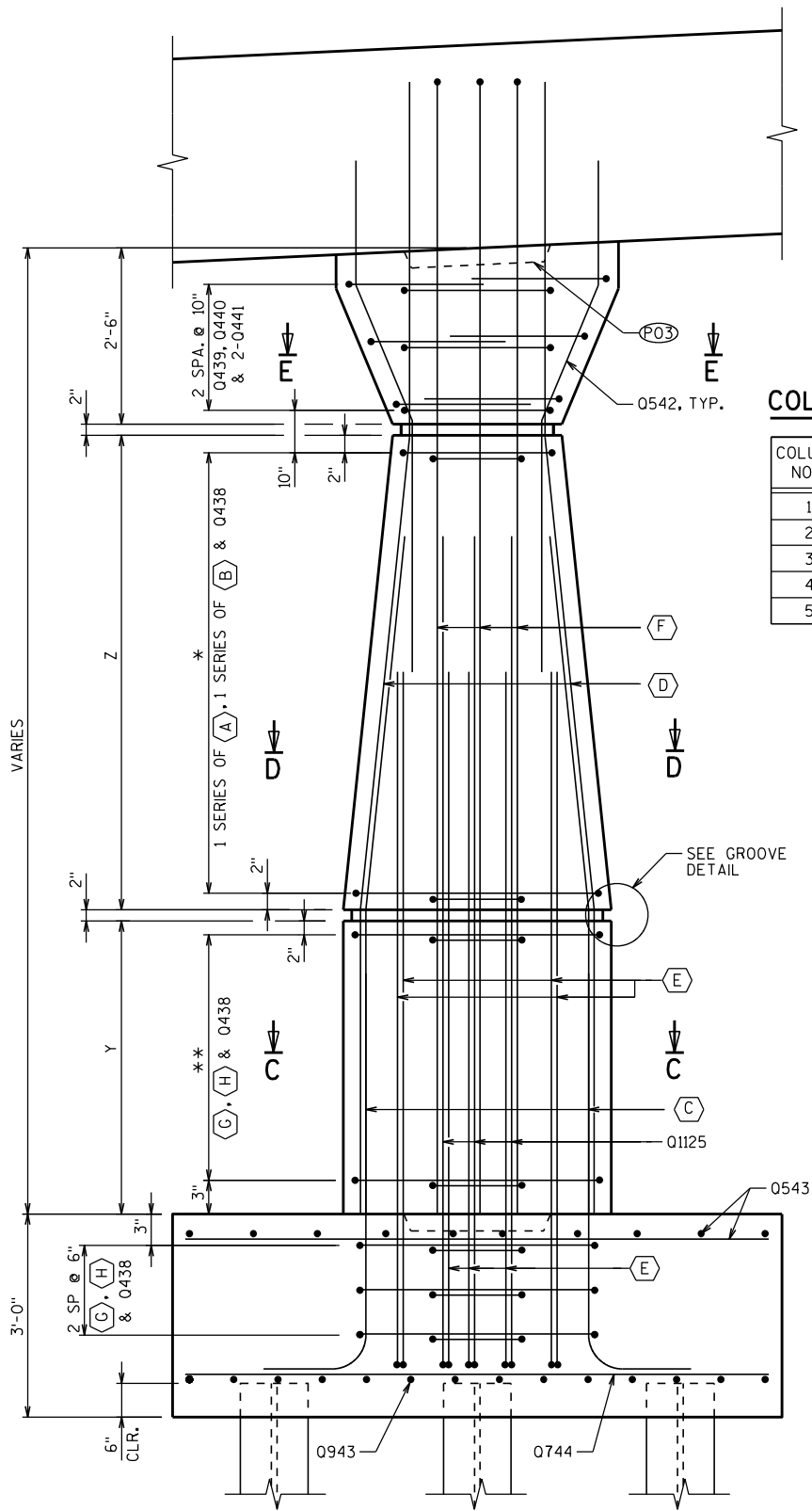
SECTION D-D



SECTION E-E



GROOVE DETAIL



COLUMN ELEVATION

BAR SERIES TABLE

COLUMN NO.	BAR MARK	NO. REQ'D	LENGTH
1, 2	Q426	2 SERIES OF 18	9'-4" TO 13'-0"
3	Q427	1 SERIES OF 20	9'-4" TO 13'-6"
4, 5	Q428	2 SERIES OF 22	9'-4" TO 13'-10"
1, 2	Q429	2 SERIES OF 18	2'-11" TO 4'-10 1/2"
2	Q430	1 SERIES OF 20	2'-11" TO 5'-0 1/2"
4, 5	Q431	2 SERIES OF 22	2'-11" TO 5'-2 1/2"

COLUMN NO.	BAR MARK	A	B
1	Q1111	6'-10"	5'-7
2	Q1112	7'-6"	4'-11"
3	Q1113	7'-4"	5'-1"
4 & 5	Q1114	7'-0"	5'-5"

Q1111, Q1112, Q1113, Q1114

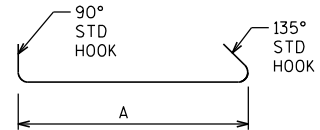
BAR MARK	A	B
Q508	2'-2"	1'-8"
Q509	2'-6"	1'-8"
Q426	2'-5"	2'-0" TO 3'-10"
Q427	2'-5"	2'-0" TO 4'-1"
Q428	2'-5"	2'-0" TO 4'-3"
Q435	2'-5"	3'-10"
Q436	2'-5"	4'-1"
Q437	2'-5"	4'-3"
Q438	2'-5"	1'-6"
Q440	2'-5"	2'-3"

Q508, Q509, Q426, Q427, Q428, Q435, Q436, Q437, Q438, Q440

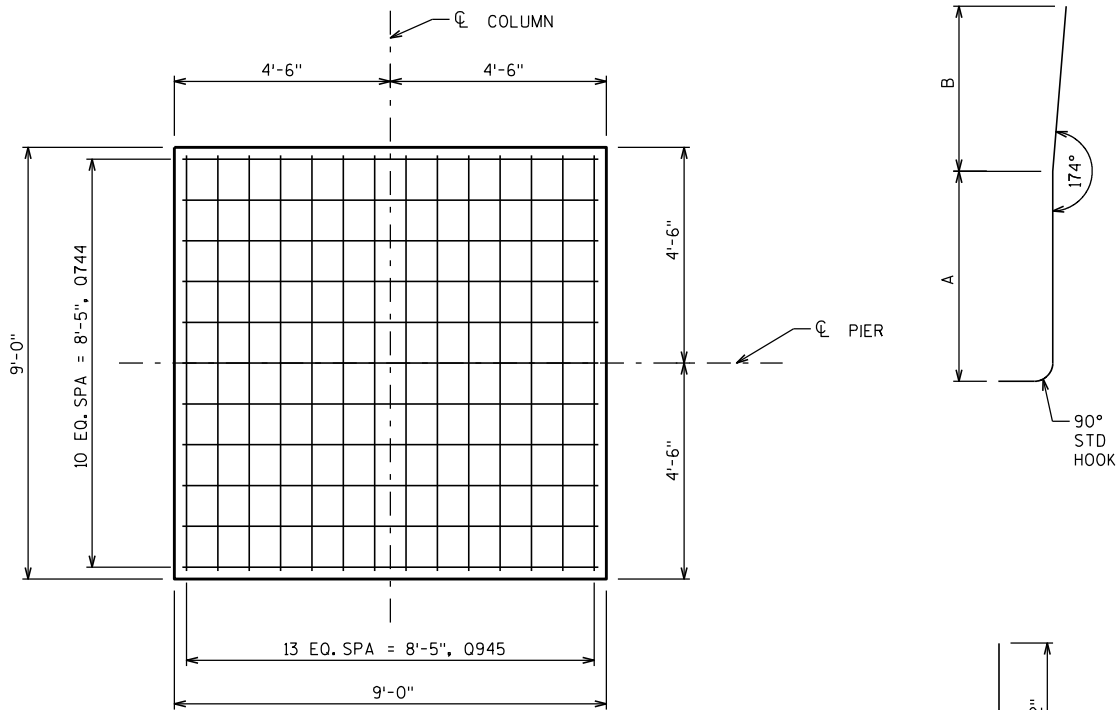
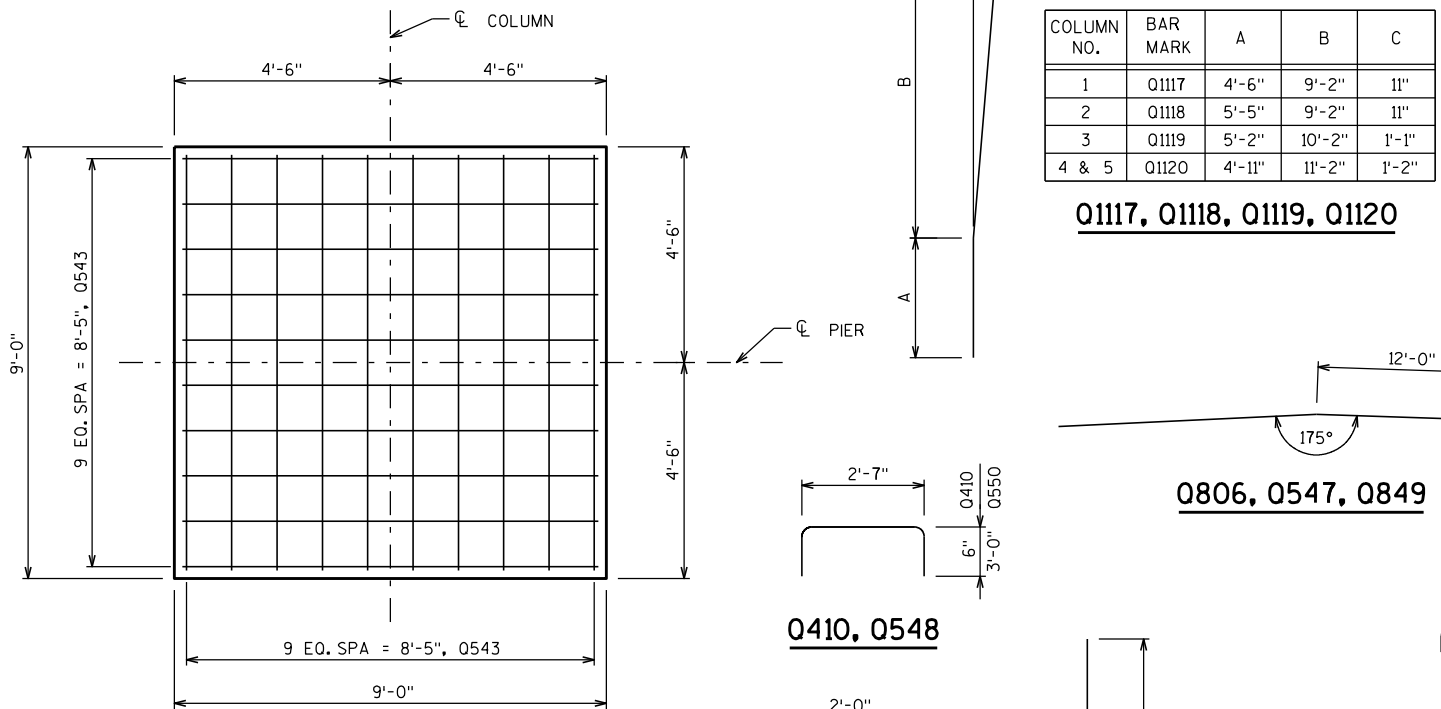
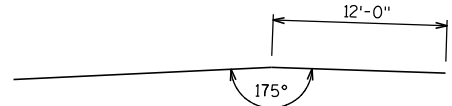
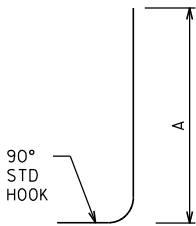
BILL OF BARS

BAR MARK	COAT	NO. REQ'D	LENGTH	BENT	BAR SERIES	LOCATION
Q801	X	6	42'-10"	X		PIER CAP TOP
Q802	X	6	41'-11"	X		PIER CAP TOP
Q803	X	12	39'-9"			PIER CAP BOTTOM
Q804	X	6	42'-7"			PIER CAP TOP
Q805	X	6	42'-0"	X		PIER CAP TOP
Q806	X	12	39'-9"	X		PIER CAP BOTTOM
Q507	X	73	2'-0"			PIER CAP - DOWEL - VERT
Q508	X	4	8'-3"	X		PIER CAP STIRRUP
Q509	X	220	8'-11"	X		PIER CAP STIRRUP
Q410	X	74	3'-5"	X		PIER CAP - TIE
Q1111	X	10	14'-1"	X		COLUMN 1 - VERT - FTG DOWEL
Q1112	X	10	14'-1"	X		COLUMN 2 - VERT - FTG DOWEL
Q1113	X	10	14'-1"	X		COLUMN 3 - VERT FTG DOWEL
Q1114	X	20	14'-1"	X		COL 4-5 - VERT - FTG DOWEL
Q1115	X	14	12'-2"	X		COLUMN 1 - VERT - FTG DOWEL
Q1116	X	56	12'-8"	X		COL 2-5 - VERT - FTG DOWEL
Q1117	X	10	18'-8"	X		COLUMN 1 - VERT
Q1118	X	10	19'-7"	X		COLUMN 2 - VERT
Q1119	X	10	20'-6"	X		COLUMN 3 - VERT
Q1120	X	20	21'-4"	X		COLUMN 4 & 5 - VERT
Q1121	X	6	19'-11"	X		COLUMN 1 - VERT - TOP
Q1122	X	6	20'-9"	X		COLUMN 2 - VERT - TOP
Q1123	X	6	21'-6"	X		COLUMN 3 - VERT - TOP
Q1124	X	12	22'-3"	X		COLUMN 4 & 5 - VERT - TOP
Q1125	X	30	14'-2"	X		COL 1-5 - VERT - FTG DOWEL
Q426	X	36	11'-2"	X	△	COLUMN 1 - TIES - MIDDLE
Q427	X	20	11'-5"	X	△	COLUMN 2 & 3 - TIES - MIDDLE
Q428	X	44	11'-7"	X	△	COLUMN 4 & 5 - TIES - MIDDLE
Q429	X	36	3'-11"	X	△	COLUMN 1 - TIES - MIDDLE
Q430	X	20	4'-0"	X	△	COLUMN 2 & 3 - TIES - MIDDLE
Q431	X	44	4'-1"	X	△	COLUMN 4 & 5 - TIES - MIDDLE
Q432	X	26	4'-10"	X		COLUMN 1 - TIES - BOTTOM
Q433	X	14	5'-0"	X		COLUMN 2 & 3 - TIES - BOTT
Q434	X	26	5'-3"	X		COLUMN 4 & 5 - TIES - BOTT
Q435	X	26	13'-0"	X		COLUMN 1 - TIES - BOTTOM
Q436	X	14	13'-6"	X		COLUMN 2 & 3 - TIES - BOTT
Q437	X	26	13'-10"	X		COLUMN 4 & 5 - TIES - BOTT
Q438	X	66	7'-10"			COLUMN - TIES
Q439	X	15	3'-3"	X		COLUMN - TIES - TOP
Q440	X	15	9'-4"			COLUMN - TIES - TOP
Q441	X	30	6'-3"	X		COLUMN - TIES - TOP
Q542	X	50	10'-1"	X		COLUMN - VERT - TOP
Q543		100	8'-6"			FOOTING - TOP
Q744		55	8'-6"			FOOTING - BOTTOM
Q945		70	8'-6"			FOOTING - BOTTOM
Q546	X	4	45'-0"			PIER CAP - HORIZ - SIDES
Q547	X	4	33'-2"	X		PIER CAP - HORIZ - SIDES
Q548	X	8	8'-4"	X		PIER CAP - HORIZ - ENDS

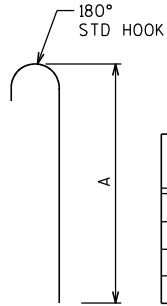
△ LENGTH SHOWN FOR BAR IS AN AVERAGE LENGTH AND SHOULD ONLY BE USED FOR BAR WEIGHT CALCULATION (SEE BAR SERIES TABLE FOR ACTUAL LENGTH)



NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
STRUCTURE B-40-803			
DRAWN BY		JBA	PLANS CK'D. KES
PIER 2 DETAILS (2 OF 2)			SHEET 15 OF 25

FOOTING BOT. REINFORCEMENT PLANFOOTING TOP REINFORCEMENT PLANQ410, Q548Q441Q1117, Q1118, Q1119, Q1120Q806, Q547, Q849Q1115, Q1116, Q1125

BAR MARK	A
Q1115	10'-6"
Q1116	11'-0"
Q1125	12'-6"

Q1121, Q1122, Q1123, Q1124

BAR MARK	A
Q1121	18'-3"
Q1122	19'-1"
Q1123	19'-10"
Q1124	20'-7"

BAR MARK	A
Q429	2'-0" TO 3'-10"
Q430	2'-0" TO 4'-1"
Q431	2'-0" TO 4'-3"
Q432	3'-10"
Q433	4'-1"
Q434	4'-3"
Q439	2'-3"

Q429, Q430, Q431, Q432, Q433, Q434, Q439



C/L PIER 2	SPAN 3									C/L BRG. N. ABUT.
	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	
731.77	731.74	731.72	731.70	731.67	731.65	731.63	731.60	731.57	731.55	731.52
732.17	732.15	732.13	732.10	732.08	732.05	732.03	732.00	731.98	731.95	731.93
729.38	729.36	729.34	729.32	729.30	729.27	729.25	729.22	729.20	729.17	729.14

AT A GIVEN SPAN POINT: TOP OF FORM ELEVATION = TOP OF DECK ELEVATION AT
FINAL GRADE - SLAB THICKNESS (AT STATION) + CAMBER (UPWARD IS ADDED;
DOWNWARD IS SUBTRACTED)

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
STRUCTURE B-40-803			
DRAWN BY JBA		PLANS CK'D. KES	
SUPERSTRUCTURE		SHEET 16 OF 25	



THRU HAUNCH - BOTH PIERS



CROSS SECTION THRU SUPERSTRUCTURE

IN SPAN



3" (A) SLAB THICKNESS DIMENSION IS MINIMUM. ANY TOLERANCES TO CORRECT CONSTRUCTION DISCREPANCIES ARE TO BE PLUS (+).

TOP TRANS. BARS IN THE SLAB SHALL BE SUPPORTED BY INDIVIDUAL BAR CHAIRS AT APPROX. 3'-0" CENTERS EACH WAY. BOTTOM LONG. BARS SHALL BE SUPPORTED BY CONTINUOUS BAR CHAIRS AT APPROX. 4'-0" CENTERS.

TRANSVERSE BARS SHALL BE PLACED PARALLEL TO THE ϕ OF SUBSTRUCTURE UNITS.

(S01) 3/4" CONTINUOUS DRIP GROOVE TO END 2'-0" AWAY FROM FACE OF ABUTMENT.

(S02) PARAPETS SHALL BE PLACED AFTER FALSEWORK HAS BEEN RELEASED.

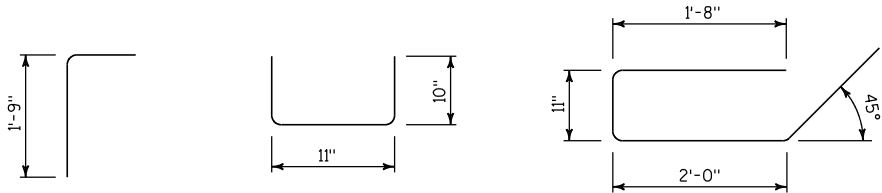
NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
STRUCTURE B-40-803			
DRAWN BY JBA		PLANS CK'D. KES	
SUPERSTRUCTURE DETAILS		SHEET 17 OF 25	

BILL OF BARS

BAR MARK	COAT	NO. REQ'D	LENGTH	BENT	LOCATION
S501	X	716	30'-0"		SLAB TRANS. TOP & BOT.
S502	X	348	4'-9"		SLAB TRANS. TOP
S503	X	142	11'-7"		SLAB LONGIT. TOP SPANS 1 & 3
S504	X	358	19'-8"		SLAB TRANS. TOP & BOT.
S505	X	152	2'-4"	X	ABUT. DIAPH.
S506	X	152	6'-1"	X	ABUT. DIAPH.
S507	X	152	3'-2"	X	ABUT. DIAPH.
S708	X	142	25'-0"	X	HAUNCH LONGIT. BOT.
S909	X	142	35'-0"		SLAB LONGIT. BOT. SPANS 1 & 3
S910	X	140	38'-7"		SLAB LONGIT. BOT. SPANS 1 & 3
S911	X	70	47'-0"		SLAB LONGIT. BOT. SPAN 2
S912	X	71	36'-6"		SLAB LONGIT. BOT. SPAN 2
S913	X	142	55'-9"		SLAB LONGIT. TOP
S914	X	140	56'-5"		SLAB LONGIT. TOP
* S515	X	460	6'-10"	X	SLAB/PARAPET TRANS.

*

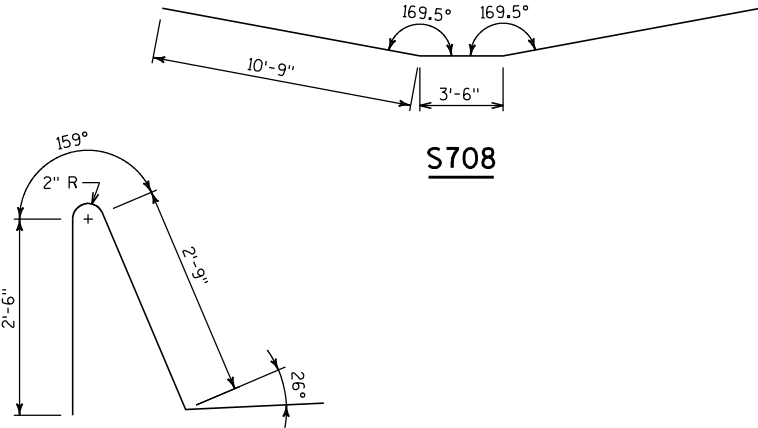
* SEE SHEETS 19 AND 20 FOR LOCATION AND LAYOUT OF S515 BAR.



S507

S505

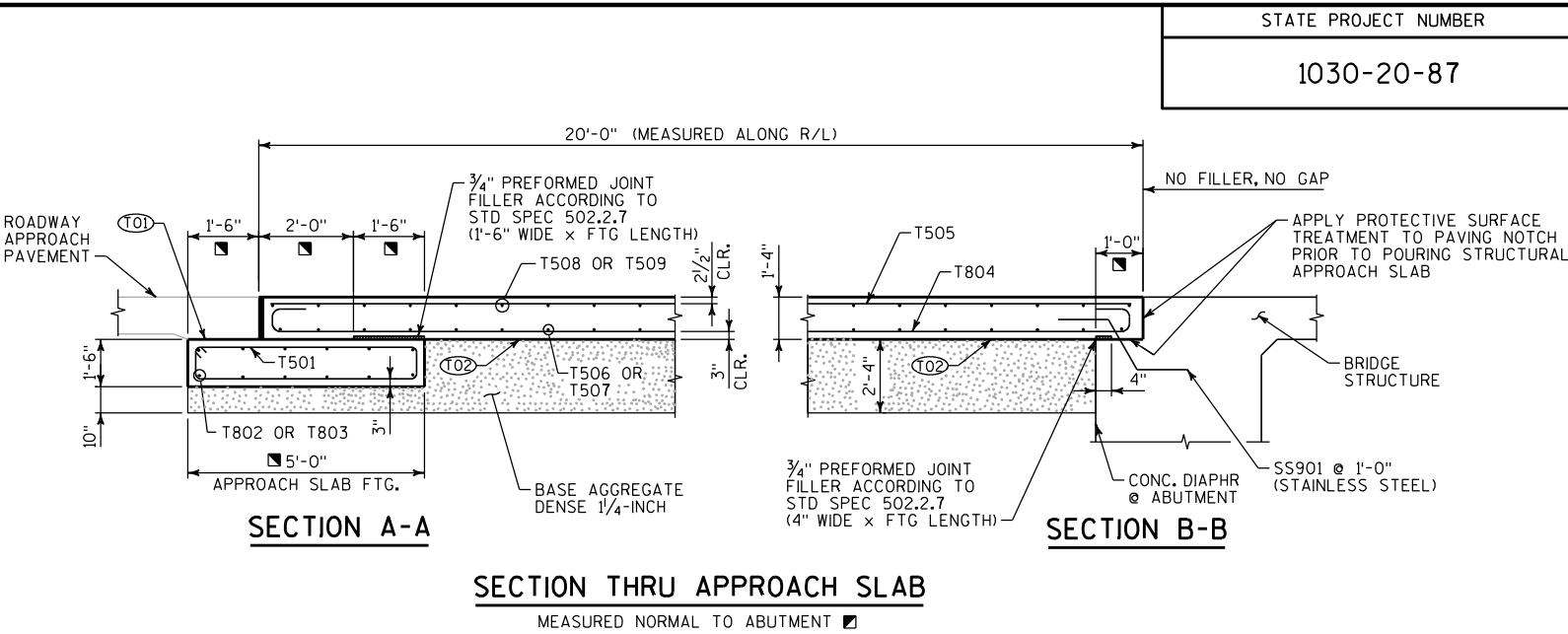
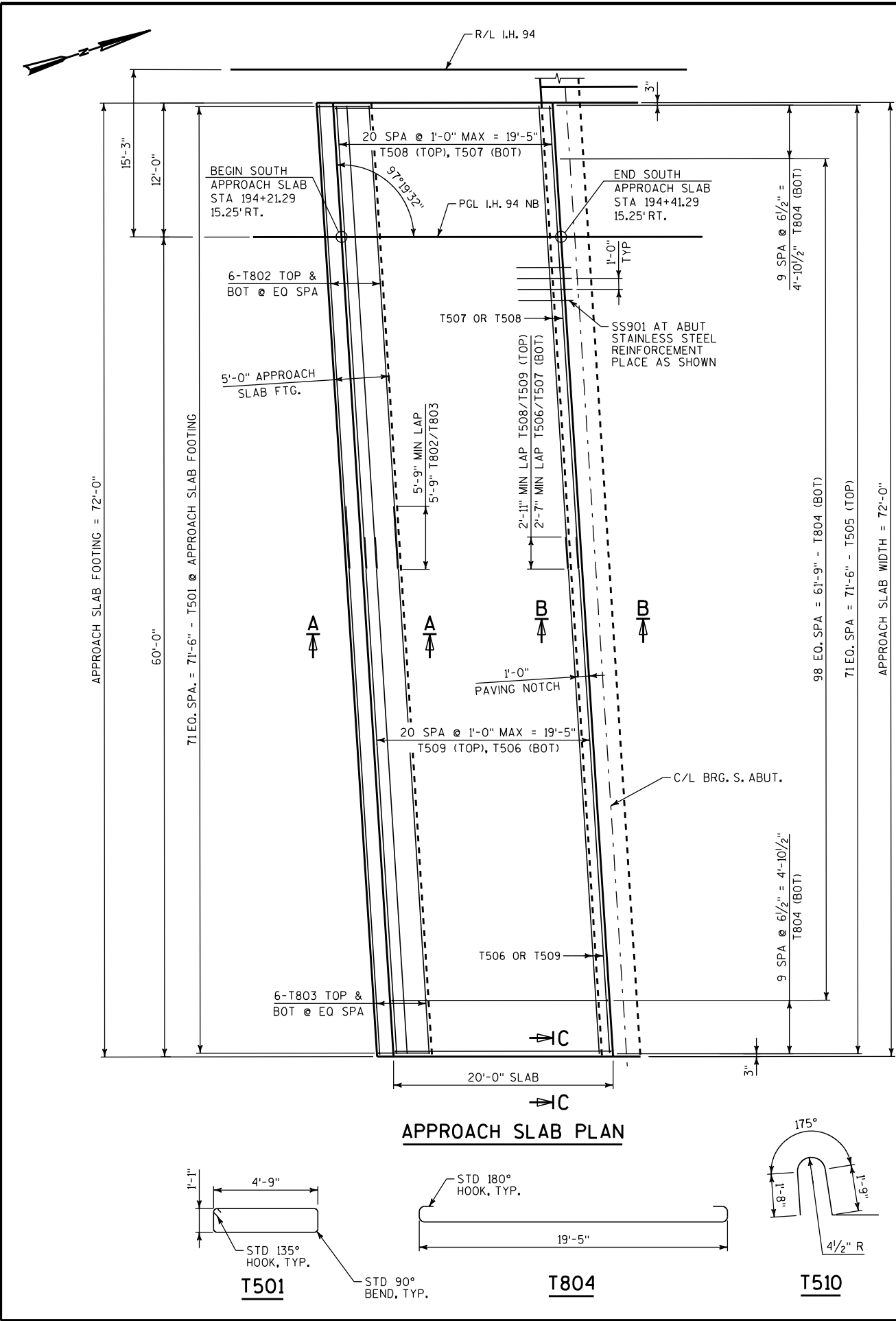
S506



S708

S515

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
STRUCTURE B-40-803			
DRAWN BY		JBA	PLANS CK'D. KES
SUPERSTRUCTURE BILL OF BARS		SHEET 18 OF 25	



ELEVATIONS

FEATURE	SOUTH APPROACH					
	BEGIN			END		
TOE OF EAST BARRIER	STATION	OFFSET	ELEV	STATION	OFFSET	ELEV
CROWN	99EW+14.32	-88.02	750.91	99EW+34.32	-88.01	751.05
WB LAYOUT LINE	99EW+17.36	-40.02	751.89	99EW+37.36	-40.01	752.03
TOE OF WEST BARRIER	99EW+18.12	-28.02	751.66	99EW+38.12	-28.01	751.80
	99EW+19.64	-4.02	751.19	99EW+39.64	-4.01	751.33

APPROACH SLAB NOTES

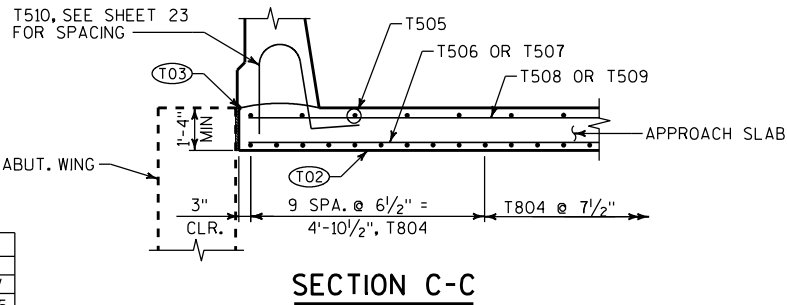
THE APPROACH SLAB SHALL HAVE LONGITUDINAL GROOVING, SEE SPECIAL PROVISIONS.

APPLY PROTECTIVE SURFACE TREATMENT TO THE TOP OF THE APPROACH SLAB AND AREAS OUTLINED IN THE SECTION THRU APPROACH SLAB.

POLYETHYLENE SHEETS SHALL BE CONSIDERED INCIDENTAL TO "CONCRETE MASONRY BRIDGES".

LEGEND

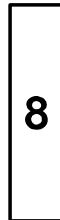
- (T01) STEEL TROWEL TOP SURFACE OF FOOTING AND PLACE MULTIPLE LAYERS (0.03" MIN. TOTAL THK.) OF POLYETHYLENE SHEETS OVER THE ENTIRE TOP OF FOOTING.
- (T02) PLACE MULTIPLE LAYERS (0.03" MIN. TOTAL THK.) OF POLYETHYLENE SHEETS OVER THE ENTIRE TOP OF SUBGRADE.
- (T03) 1/2" PREFORMED JOINT FILLER WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER (1" DEEP AND HOLD 1/8" BELOW SURFACE OF CONCRETE.



BILL OF BARS

BAR MARK	COAT	NO. REQ'D	LENGTH	BENT	LOCATION
T501	X	87	12'-3"	X	APPROACH SLAB FTG. - STIRRUP
T802	X	12	42'-3"		APPROACH SLAB FTG. - TRANS
T803	X	12	50'-0"		APPROACH SLAB FTG. - TRANS
T804	X	142	21'-3"	X	APPROACH SLAB - LONG. - BOT
T505	X	88	19'-5"		APPROACH SLAB - LONG. - TOP
T506	X	21	47'-2"		APPROACH SLAB - TRANS. - BOT
T507	X	21	42'-3"		APPROACH SLAB - TRANS. - BOT
T508	X	21	42'-3"		APPROACH SLAB - TRANS. - TOP
T509	X	21	47'-2"		APPROACH SLAB - TRANS. - TOP
T510	X	60	5'-5"	X	APPROACH SLAB - PARAPET DOWEL

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
STRUCTURE B-40-803			
DRAWN BY		TEK	PLANS CK'D. KES
SOUTH STRUCTURAL APPROACH SLAB			SHEET 19 OF 25



FEATURE	NORTH APPROACH				
	OFFSET	BEGIN		END	
		STATION	ELEV	STATION	ELEV
TOE OF EAST BARRIER	-88.00	102EW+10.82	752.09	102EW+30.82	752.10
CROWN	-40.00	102EW+13.86	753.05	102EW+33.86	753.06
SB PGL	-28.00	102EW+14.62	752.81	102EW+34.62	752.82
TOE OF WEST BARRIER	-4.00	102EW+16.14	752.33	102EW+36.14	752.34



BAR MARK	COAT	NO. REQ'D	LENGTH	BENT	LOCATION
T501	X	87	12'-3"	X	APPROACH SLAB FTG. - STIRRUP
T802	X	12	42'-3"		APPROACH SLAB FTG. - TRANS
T803	X	12	50'-0"		APPROACH SLAB FTG. - TRANS
T804	X	142	21'-3"	X	APPROACH SLAB - LONG. - BOT
T505	X	88	19'-5"		APPROACH SLAB - LONG. - TOP
T506	X	21	47'-2"		APPROACH SLAB - TRANS. - BOT
T507	X	21	42'-3"		APPROACH SLAB - TRANS. - BOT
T508	X	21	42'-3"		APPROACH SLAB - TRANS. - TOP
T509	X	21	47'-2"		APPROACH SLAB - TRANS. - TOP
T510	X	60	5'-5"	X	APPROACH SLAB - PARAPET DOWEL

APPROACH SLAB NOTES

THE APPROACH SLAB SHALL HAVE LONGITUDINAL GROOVING,
SEE SPECIAL PROVISIONS.

APPLY PROTECTIVE SURFACE TREATMENT TO THE TOP OF THE APPROACH SLAB AND AREAS OUTLINED IN THE SECTION THRU APPROACH SLAB.

POLYETHYLENE SHEETS SHALL BE CONSIDERED INCIDENTAL TO "CONCRETE MASONRY BRIDGES".

LEGEND

- (T01) STEEL TROWEL TOP SURFACE OF FOOTING AND PLACE MULTIPLE LAYERS (0.03" MIN. TOTAL THK.) OF POLYETHYLENE SHEETS OVER THE ENTIRE TOP OF FOOTING.
- (T02) PLACE MULTIPLE LAYERS (0.03" MIN. TOTAL THK.) OF POLYETHYLENE SHEETS OVER THE ENTIRE TOP OF SUBGRADE.
- (T03) 1/2" PREFORMED JOINT FILLER WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER (1" DEEP AND HOLD/8" BELOW SURFACE OF CONCRETE.

NO.	DATE	REVISION			BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION					
STRUCTURE B-40-803					
		DRAWN BY	TEK	PLANS Ck'D.	KES
NORTH STRUCTURAL APPROACH SLAB				SHEET 20 OF 25	



OUTSIDE ELEVATION OF EAST PARAPET SHOWING REINFORCEMENT

SECTION A

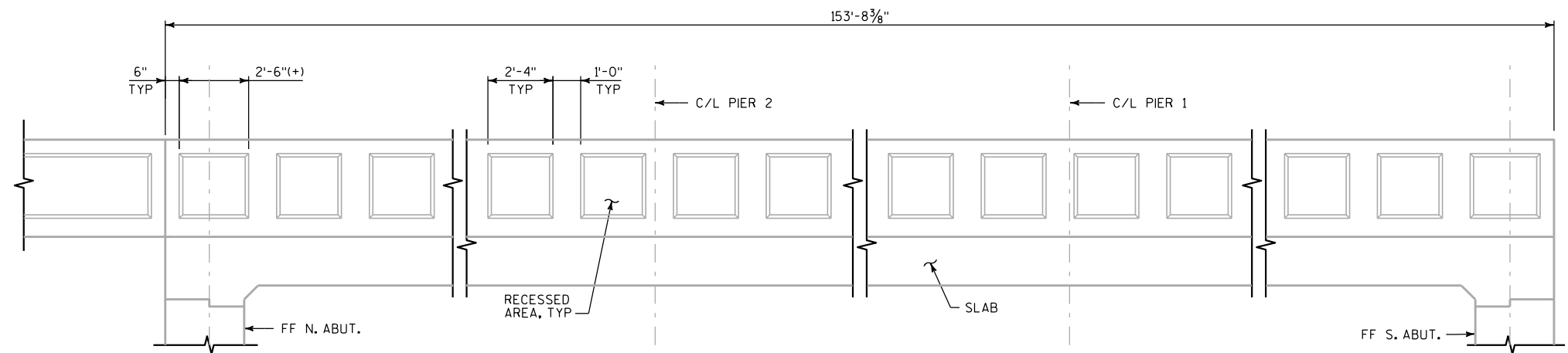
BILL OF BARS

R505



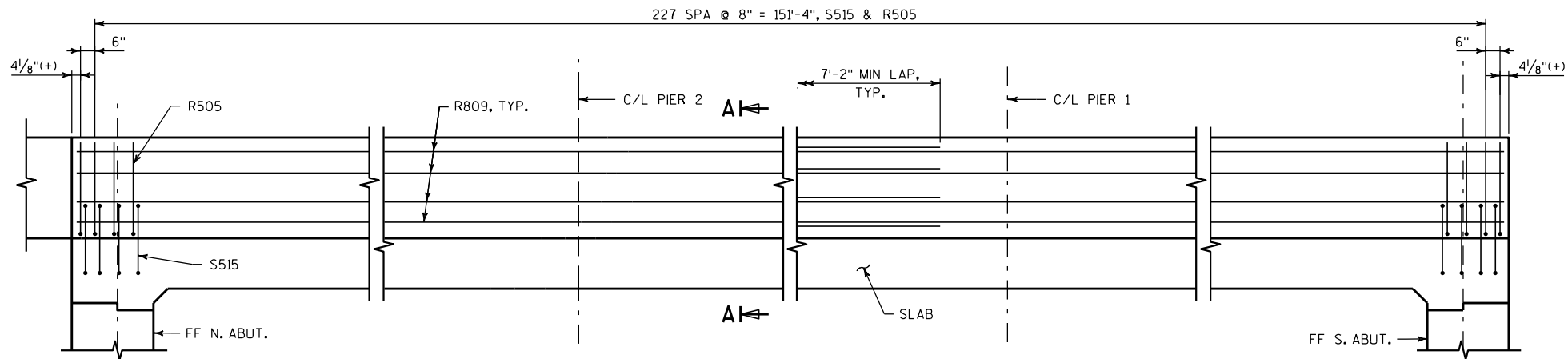
MARK	NO. REOD.	LENGTH
R507	1 SERIES OF 6	4'-10" TO 6'-6"

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
STRUCTURE B-40-803			
DRAWN BY JBA		PLANS CK'D. KES	
SLOPED FACE PARAPET 42SS MODIFIED (1 OF 3)		SHEET 21 OF 25	



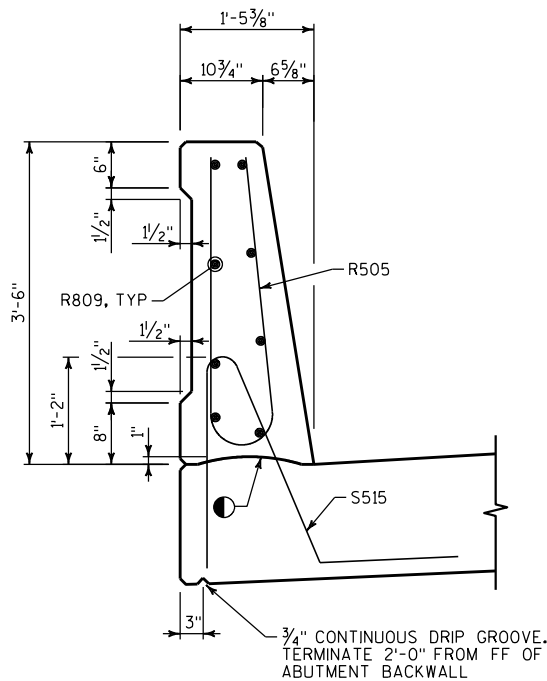
OUTSIDE ELEVATION OF WEST PARAPET

DIMENSIONS MEASURED ALONG OUTSIDE EDGE OF DECK / OUTSIDE FACE OF PARAPET (LOOKING EAST)



OUTSIDE ELEVATION OF WEST PARAPET SHOWING REINFORCEMENT

DIMENSIONS MEASURED ALONG OUTSIDE EDGE OF DECK / OUTSIDE FACE OF PARAPET (LOOKING EAST)



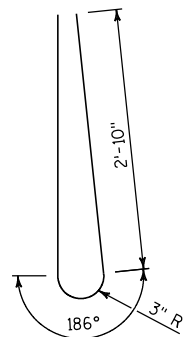
SECTION A

● CONSTRUCTION JOINT - STRIKE OFF AS SHOWN

BILL OF BARS

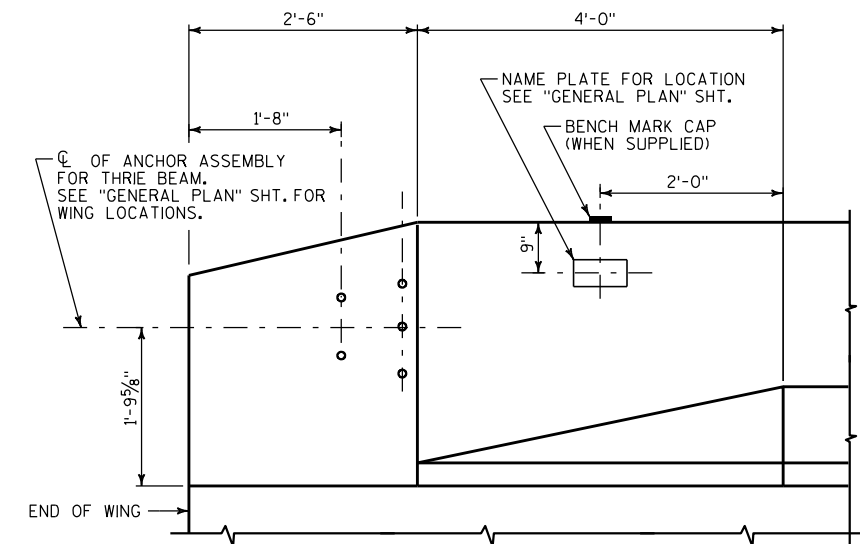
NOTE:
BAR DIMENSIONS ARE OUT TO OUT OF BAR. THE FIRST OR FIRST TWO DIGITS OF A BAR MARK SIGNIFIES THE BAR SIZE

BAR MARK	COAT	NO.	LENGTH	BENT	LOCATION
R505	X	230	6'-6"	X	PARAPET VERT.
R809	X	24	55'-9"		PARAPET HORIZ.

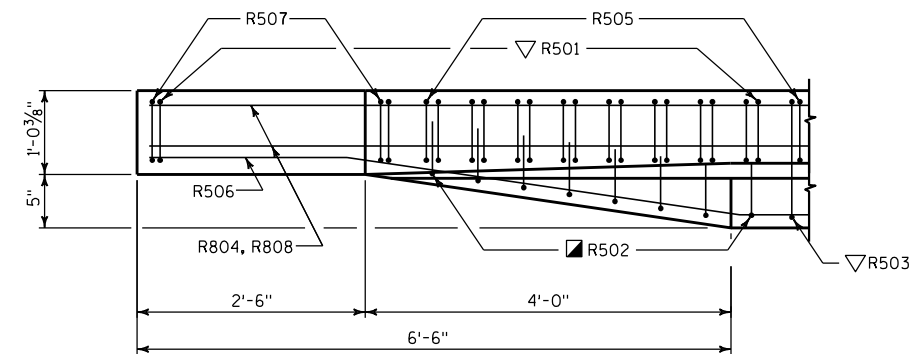


R505

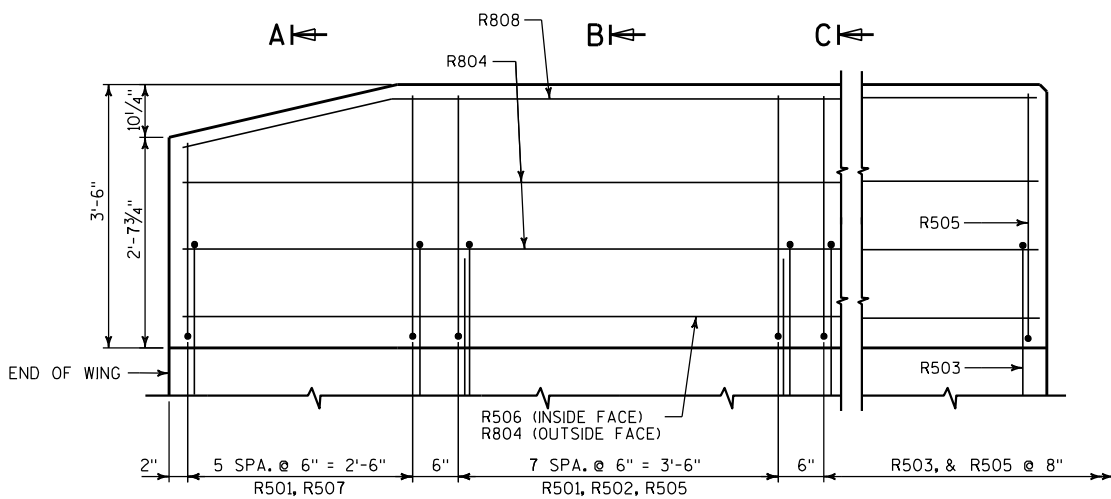
NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
STRUCTURE B-40-803			
DRAWN BY JBA		PLANS CK'D. KES	
SLOPED FACE PARAPET 42SS MODIFIED (2 OF 3)			SHEET 22 OF 25



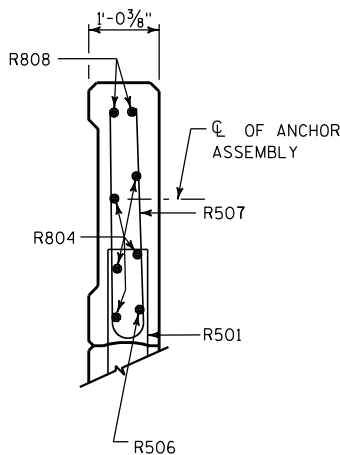
INSIDE ELEVATION



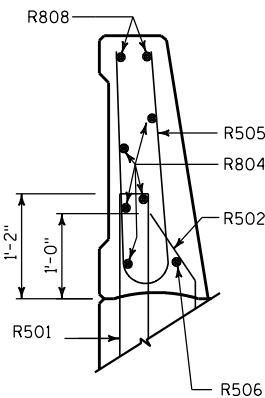
PLAN



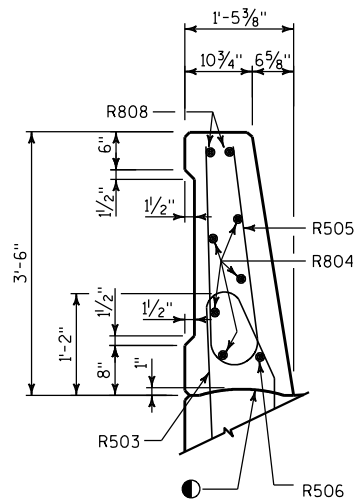
OUTSIDE ELEVATION



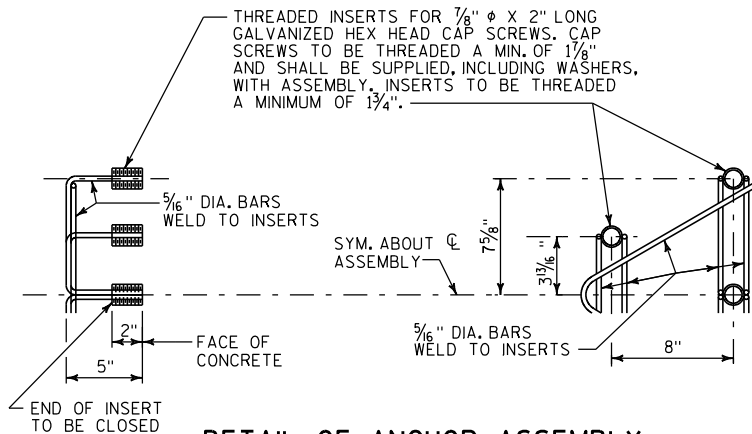
SECTION A



SECTION B



SECTION C



DETAIL OF ANCHOR ASSEMBLY

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

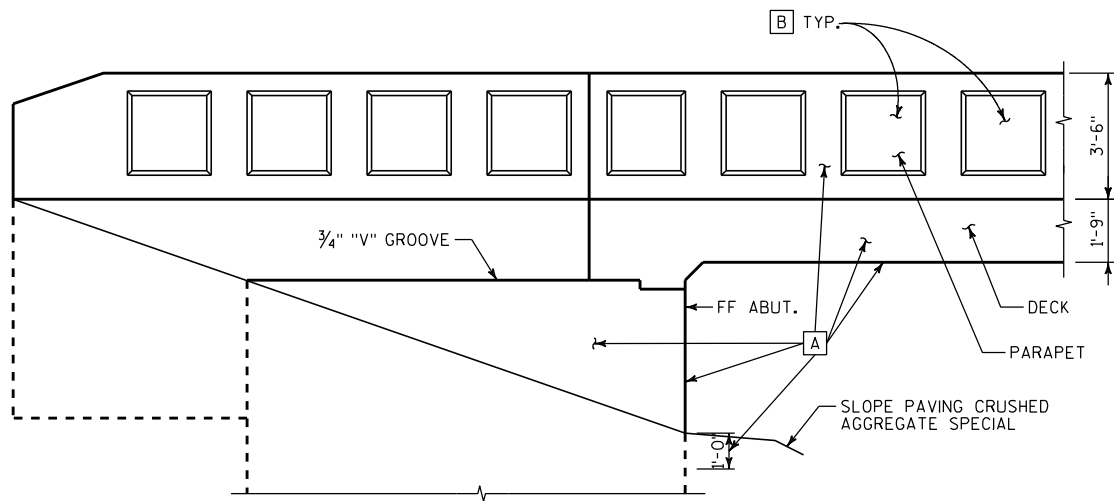
ASSEMBLY SHALL BE BID ITEM "ANCHOR ASSEMBLIES FOR STEEL PLATE BEAM GUARD", EACH.

CONST. JOINT - STRIKE OFF AS SHOWN.

R502 BARS MAY BE PLACED AFTER CONCRETE IS POURED BUT BEFORE INITIAL SET HAS TAKEN PLACE. USE CARE TO PLACE R502 BARS CORRECTLY ALONG TRANSITION OF PARAPET.

R501 AND R503 BARS TO BE TIED TO WING STEEL BEFORE WING IS POURED.

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
STRUCTURE B-40-803			
DRAWN BY JBA		PLANS CK'D. KES	
SLOPED FACE PARAPET 42SS MODIFIED (3 OF 3)			SHEET 23 OF 25

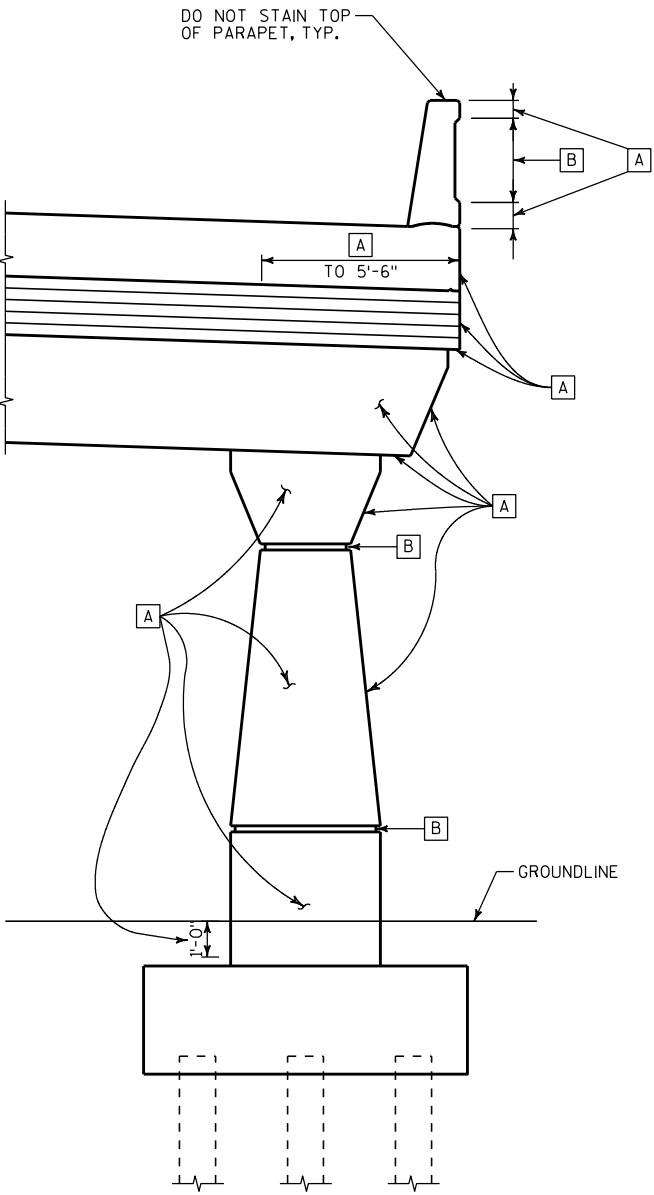


OUTSIDE ELEVATION OF PARAPET

CONCRETE STAINING SCHEDULE

MARK	COLOR	LOCATION	NOTES
A	BASE COLOR	PARAPETS	EXTERIOR, EXCEPT AS NOTED FOR ACCENT COLORS, DO NOT STAIN TOP OR FRONT
		DECK	FASCIA & EXTERIOR 5'-6" OF EXPOSED UNDERSIDE
		ABUTMENT	WINGWALLS, ENDS, AND FRONT FACE FROM SLAB TO 1'-0" BELOW FINAL GRADE
		PIERS	PIER CAP & COLUMNS, EXCEPT AS NOTED FOR ACCENT COLORS, FROM BEAM SEAT TO 1'-0" BELOW FINAL GRADE
B	ACCENT COLOR #1	PARAPETS	RECESSED PANELS
		COLUMNS	HORIZONTAL RUSTICATIONS

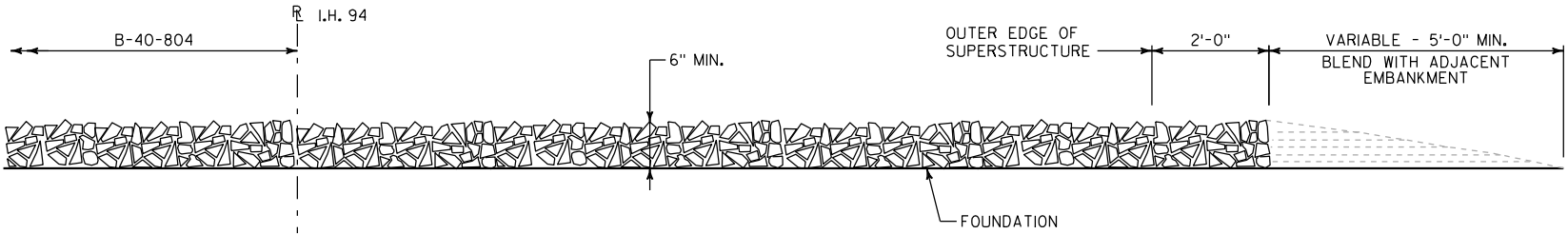
SEE SPECIAL PROVISIONS FOR STAIN COLORS.



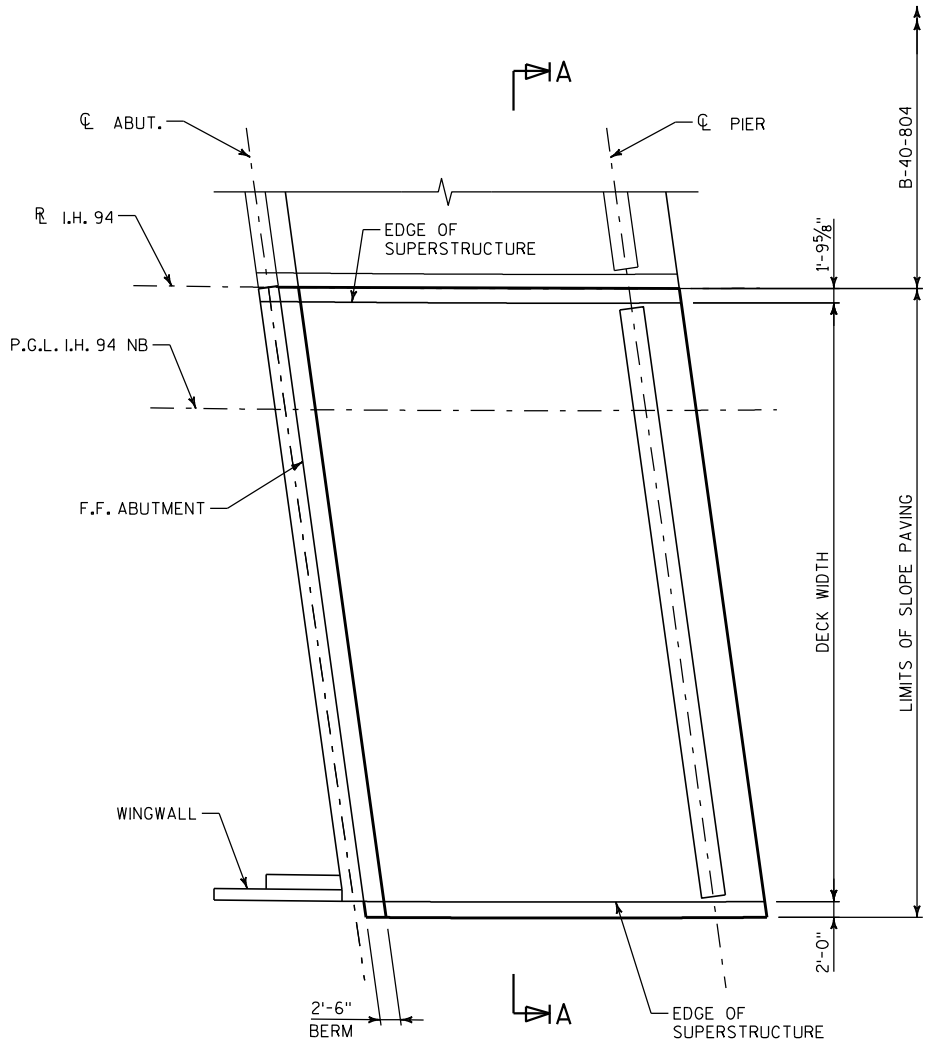
ELEVATION OF PIER

LOOKING NORTH

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
STRUCTURE B-40-803			
DRAWN BY		JBA	PLANS CK'D. KES
AESTHETIC DETAIL		SHEET 24 OF 25	



SECTION A-A

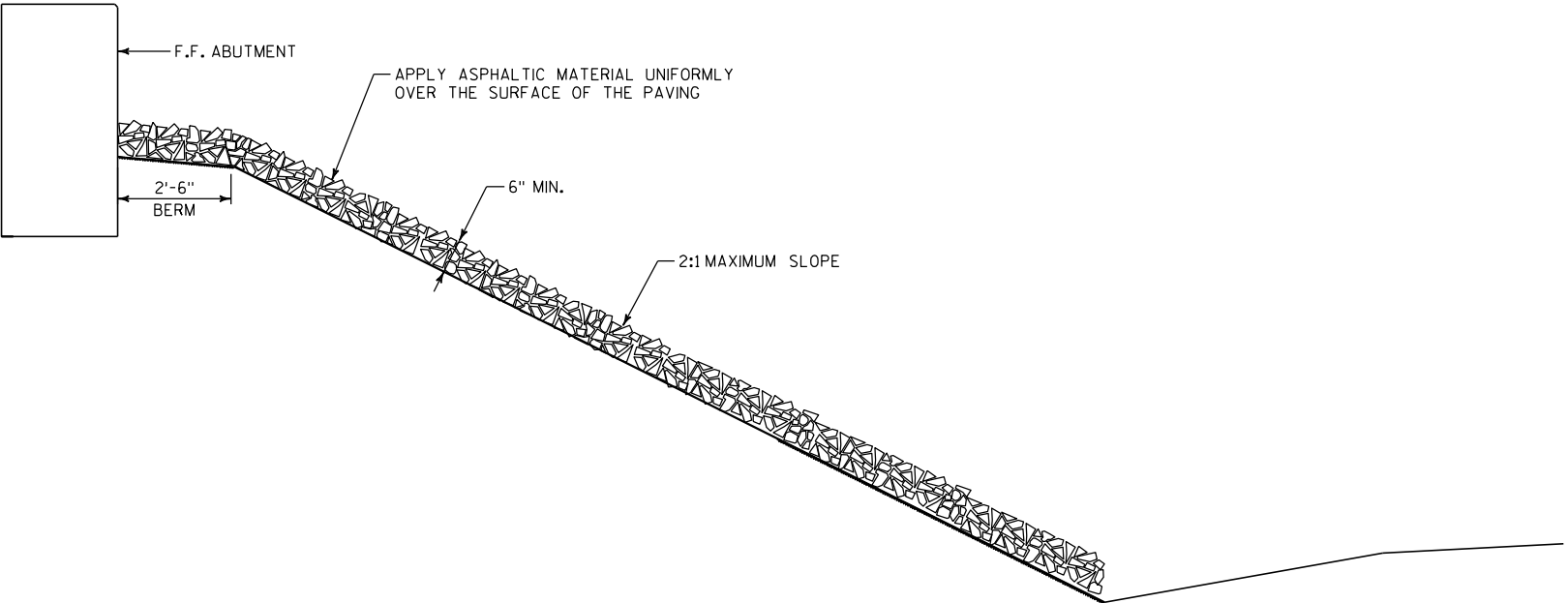


PLAN

GENERAL NOTES

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

WOOD FORMS MAY BE LEFT IN PLACE WHEN OF A QUALITY ACCEPTABLE TO THE ENGINEER.



STANDARD CROSS SECTION THRU CRUSHED AGGREGATE SPECIAL

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
STRUCTURE B-40-803			
DRAWN BY		DGS	PLANS CK'D. KES
SLOPE PAVING DETAILS		SHEET 25 OF 25	