

LAX
PROJECT ID: 7016-00-05
WITH: N/A
COUNTY: MONROE

AUGUST 2018
ORDER OF SHEETS

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

TOTAL SHEETS = 42

Sheets Revised: 10, 27, 28, 34



DESIGN DESIGNATION

A.A.D.T.	2017	=	200
A.A.D.T.	2037	=	250
D.H.V.		=	2.6
D.D.		=	57.43
T.		=	3.3%
DESIGN SPEED		=	30
ESALS		=	7,300

CONVENTIONAL SYMBOLS

PLAN		PROFILE	
CORPORATE LIMITS		GRADE LINE	
PROPERTY LINE		ORIGINAL GROUND	
LOT LINE		MARSH OR ROCK PROFILE (To be noted as such)	
LIMITED HIGHWAY EASEMENT		SPECIAL DITCH	
EXISTING RIGHT OF WAY		GRADE ELEVATION	
PROPOSED OR NEW R/W LINE		CULVERT (Profile View)	
SLOPE INTERCEPT		UTILITIES	
REFERENCE LINE		ELECTRIC	
EXISTING CULVERT		FIBER OPTIC	
PROPOSED CULVERT (Box or Pipe)		GAS	
COMBUSTIBLE FLUIDS		SANITARY SEWER	
MARSH AREA		STORM SEWER	
WOODED OR SHRUB AREA		TELEPHONE	
		WATER	
		UTILITY PEDESTAL	
		POWER POLE	
		TELEPHONE POLE	

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
PLAN OF PROPOSED IMPROVEMENT
CITY OF SPARTA, MILWAUKEE AVENUE
(FARMERS VALLEY CREEK BRIDGE B-41-0299)
LOCAL STREET
MONROE COUNTY

Structure

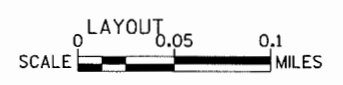
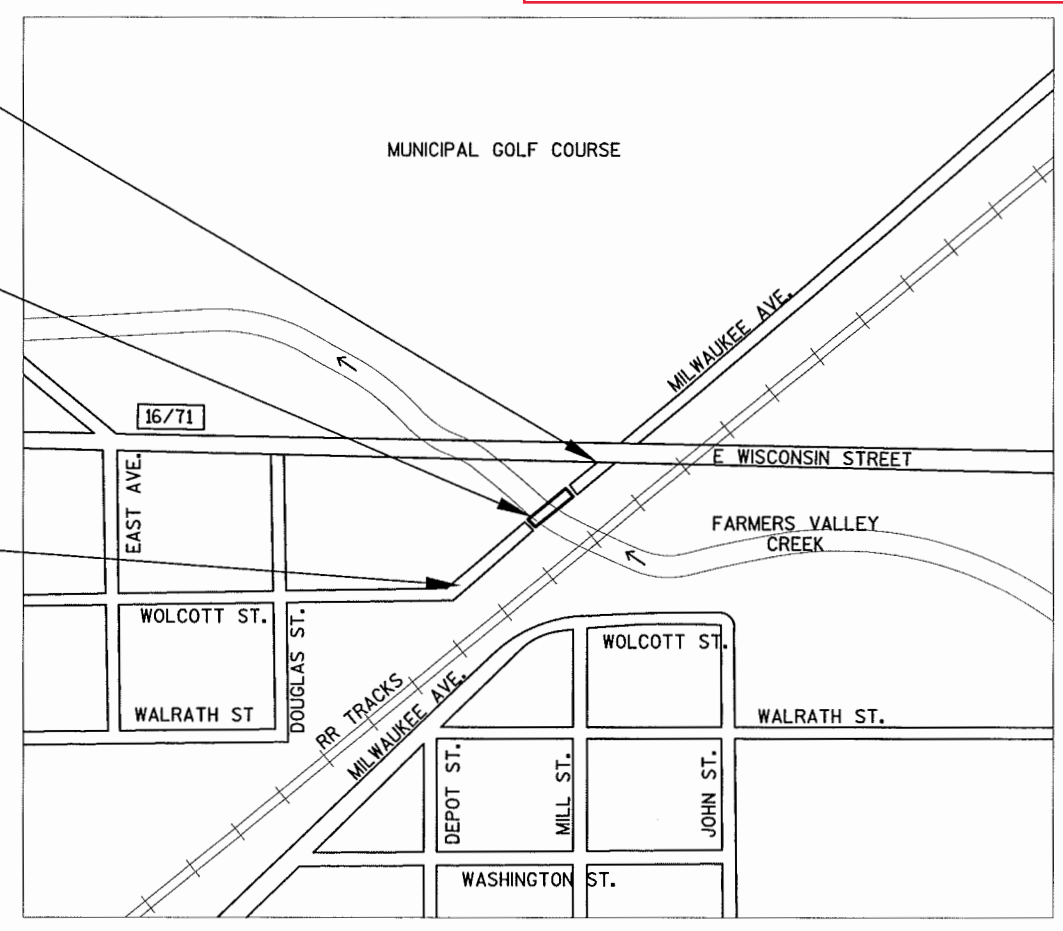
AS-BUILT PLAN
SUPERVISOR: Jim Savoldelli
PROJECT MANAGER: Brian Meyer
PROJECT LEADER: Matt Palkowski
CONTRACTOR: Larson Construction Co., Inc.
CONSTRUCTION STARTED: 04/15/2019
SUBSTANTIALLY COMPLETE: 08/16/2019

STATE PROJECT NUMBER
7016-00-05

END PROJECT
STA 12+00
Y = 378,267.54
X = 630,072.63

STRUCTURE
B-41-299

BEGIN PROJECT
STA 7+50
Y = 377,979.56
X = 629,727.23



TOTAL NET LENGTH OF CENTERLINE = 0.085 MILES

COORDINATES ON THIS PLAN ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM (WCCS), MONROE COUNTY

ACCEPTED FOR
CITY OF SPARTA

DATE: 4/5/18 *Mark Westerveld*
(SIGNATURE)

Deborah F. Buzick
TITLE OF OFFICIAL

ORIGINAL PLANS PREPARED BY
MSA
PROFESSIONAL SERVICES
TRANSPORTATION & MUNICIPAL
DEVELOPMENT & ENVIRONMENTAL
1230 South Boulevard Baraboo, WI 53913
608-356-2771 1-800-362-4505 Fax: 608-356-2770

WISCONSIN
JOSHUA R. SWENO
E-44384
WAUNAKEE WI
PROFESSIONAL ENGINEER

DATE: 4/9/18 *Joshua R. Sweno*
(PROFESSIONAL ENGINEER)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PREPARED BY
Surveyor MSA PROFESSIONAL SERVICES, INC.
Designer MSA PROFESSIONAL SERVICES, INC.
Management Consultant KL ENGINEERING, INC.

APPROVED FOR THE DEPARTMENT
DATE: 4/12/2016 *Mark Westerveld*
Region Signature

E

○ - INDICATES WING NUMBER

▽ - INDICATES LOCATION OF PROVISION FOR FUTURE THREE BEAM GUARD ATTACHMENT AT WINGS.

C CURVE DATA

PI STA. 9+33.88
Y = 378,106.62
X = 629,860.43
Δ = 6°36'17"
D = 1°49'50"
T = 180.60'
L = 360.80'
R = 3130.00'
PC STA. 7+53.48
PT STA. 11+14.28
SE = 2% NORMAL CROWN

BENCHMARK

NO.	STA./OFFSET	DESCRIPTION	ELEV.
1	10+19.66, 7.44' LT.	CHISELED SQUARE ON NW CORNER BRIDGE WING	781.61
2	7+05.76, 17.74' LT.	CHISELED + ON TAG BOLT FIRE HYDRANT	791.51
3	14+97.60, 34.5' LT.	RR SPIKE IN POWER POLE	790.03

DESIGN DATA

LIVE LOAD:

DESIGN LOADING : HL-93
INVENTORY RATING FACTOR : 1.09
OPERATIONAL RATING FACTOR : 1.41

TRAFFIC DATA:

A.A.D.T. (2017) = 200
A.A.D.T. (2037) = 250
R.D.S. = 30 MPH
WISCONSIN STANDARD PERMIT VEHICLE (WIS-SPV) = 250 KIPS.

STRUCTURE IS DESIGNED FOR A FUTURE WEARING SURFACE OF 20 POUNDS PER SQUARE FOOT.

MATERIAL PROPERTIES:

CONCRETE MASONRY, SLAB & PARAPETS $f'_c = 4,000$ P.S.I.
ALL OTHER $f'_c = 3,500$ P.S.I.

HIGH-STRENGTH BAR STEEL REINFORCEMENT, GRADE 60 $f_y = 60,000$ P.S.I.

PILING STEEL HP $f_y = 50,000$ P.S.I.

FOUNDATION DATA:

ABUTMENTS TO BE SUPPORTED ON PILING STEEL HP 10-INCH X 42 LB. DRIVE PILES TO A REQUIRED DRIVING RESISTANCE OF 180 TONS * PER PILE AS DETERMINED BY THE MODIFIED GATES DYNAMIC FORMULA. ESTIMATED PILE LENGTHS ARE 90'-0" AT THE WEST ABUTMENT AND 85'-0" AT THE EAST ABUTMENT.

* THE FACTORED AXIAL RESISTANCE OF PILES IN COMPRESSION USED FOR DESIGN IS THE REQUIRED DRIVING RESISTANCE MULTIPLIED BY A RESISTANCE FACTOR OF 0.5 USING MODIFIED GATES TO DETERMINE DRIVEN PILE CAPACITY.

HYDRAULIC DATA:

100 YEAR FREQUENCY

DRAINAGE AREA 23.4 SQ. MI.
Q100 2600 C.F.S.
VELOCITY 10.30 FT./SEC.
WATERWAY AREA 252 SQ. FT.
HIGH WATER 100 ELEVATION 777.93 ±
ROADWAY OVERFLOW DESIGN FREQUENCY N/A
SCOUR CRITICAL CODE 8
Q² ELEVATION (530 C.F.S.) 773.08 ±
VELOCITY₂ 6.41 FPS

LIST OF DRAWINGS

1. GENERAL PLAN
2. CROSS SECTION, QUANTITIES & NOTES
3. SUBSURFACE EXPLORATION
4. WEST ABUTMENT
5. WEST ABUTMENT DETAILS
6. EAST ABUTMENT
7. EAST ABUTMENT DETAILS
8. SUPERSTRUCTURE
9. SINGLE SLOPE PARAPET 42SS

NO.	DATE	REVISION	BY
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MSA
PROFESSIONAL SERVICES

TRANSPORTATION • MUNICIPAL
DEVELOPMENT • ENVIRONMENTAL
1230 South Boulevard Baraboo, WI 53913
608-356-2771 1-800-362-4505 Fax: 608-356-2770

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
ACCEPTED *William C. Dreher* SDR 05/04/18
CHIEF STRUCTURES DESIGN ENGINEER DATE

STRUCTURE B-41-299
MILWAUKEE AVE. OVER FARMERS VALLEY CREEK
COUNTY MONROE TOWN/CITY/VILLAGE SPARTA

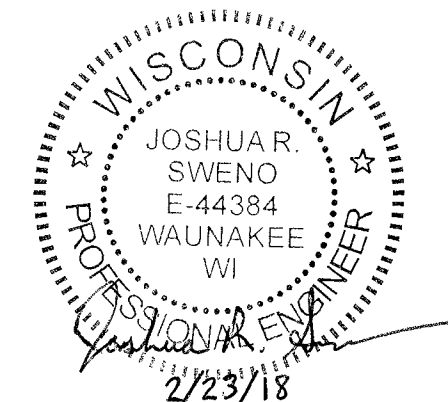
DESIGN SPEC. AASHTO LRFD BRIDGE DESIGN SPECIFICATION
DESIGNED BY JAS CK'D. JRS DRAWN BY RLR PLANS CK'D. JRS

GENERAL PLAN

SHEET 1 OF 9

CONSULTANT DESIGN CONTACT:
JOSHUA SWENO
(608) 355-8852

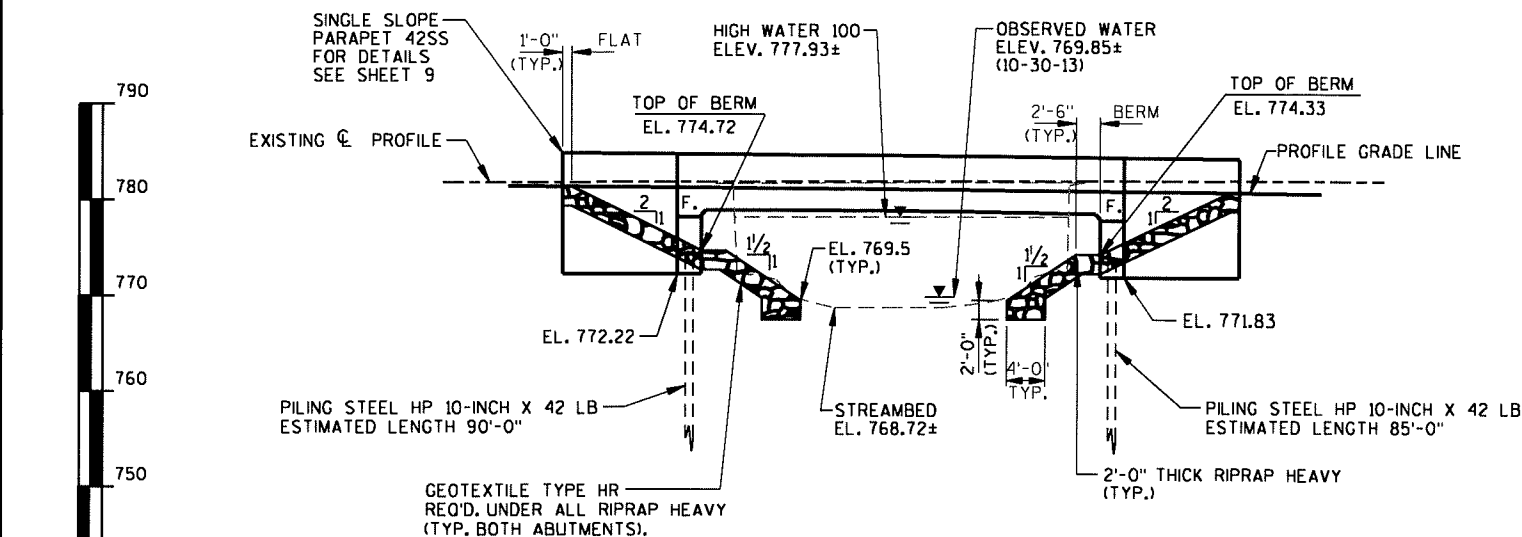
BRIDGE OFFICE CONTACT:
WILLIAM DREHER
(608) 266-8489



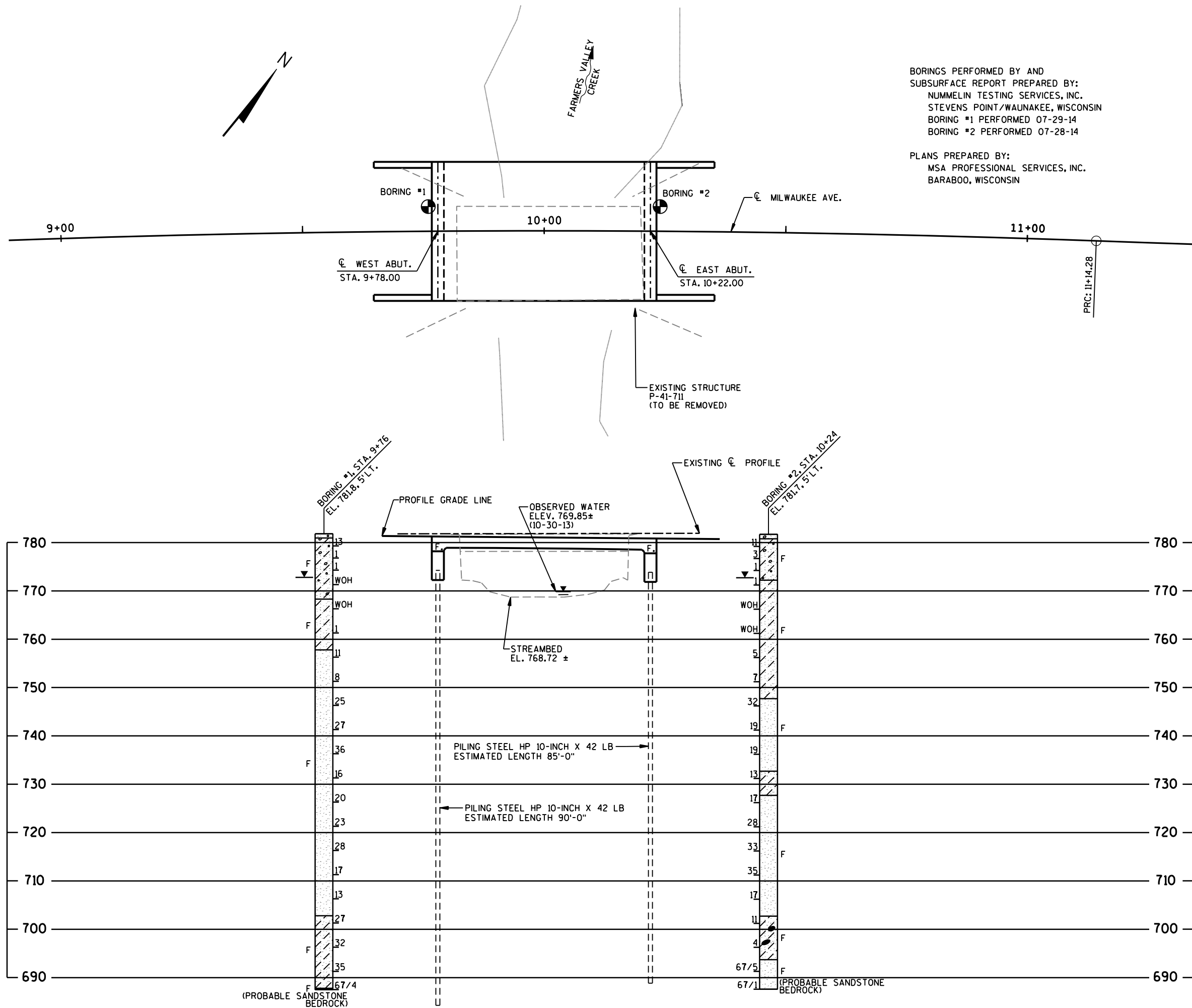
Benchmark was provided and placed, elevation was not shot by a certified surveyor.

PLAN
(SINGLE SPAN FLAT CONCRETE SLAB)

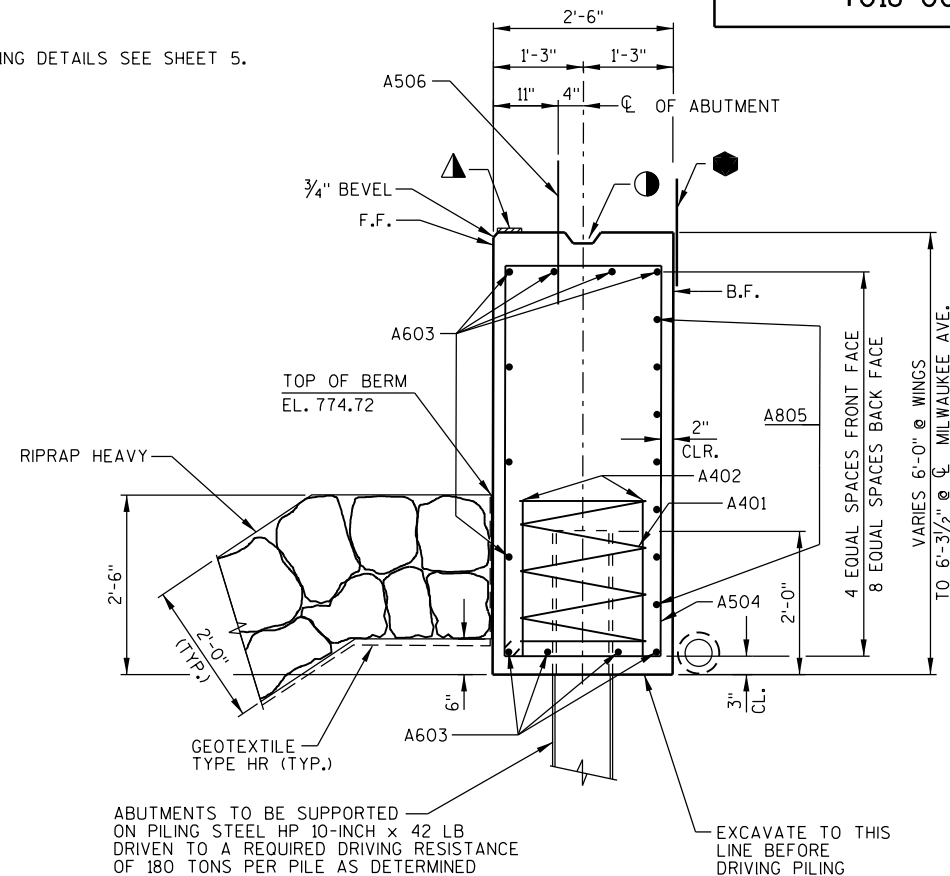
ELEVATION
(NORMAL TO C MILWAUKEE AVE.)



NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
STRUCTURE		B-41-299	
		DRAWN BY RLR	PLANS CK'D. JRS
CROSS SECTION, QUANTITIES & NOTES		SHEET 2 OF 9	



NOTE:
FOR WING DETAILS SEE SHEET 5.



TYPICAL SECTION THRU ABUTMENT

LEGEND

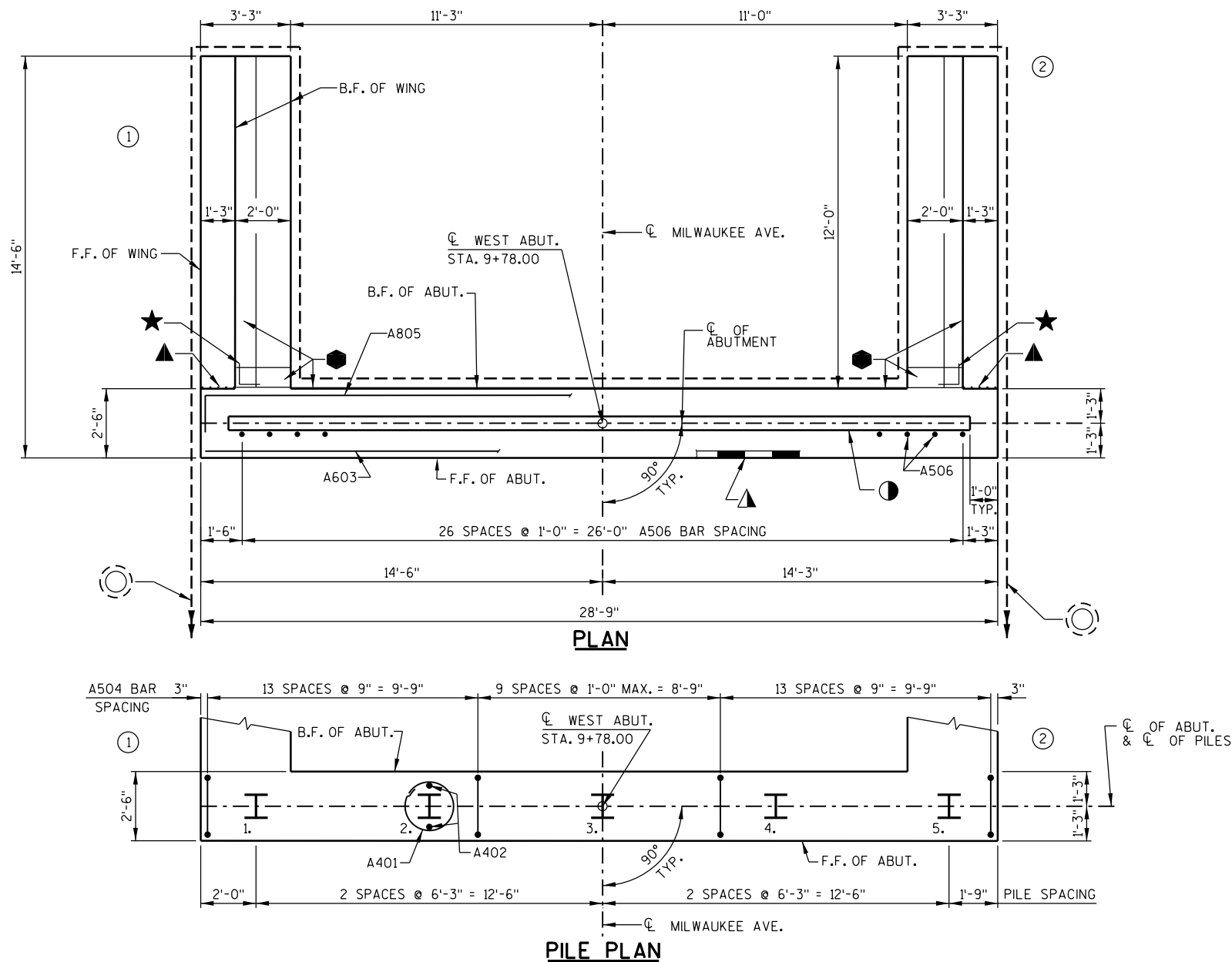
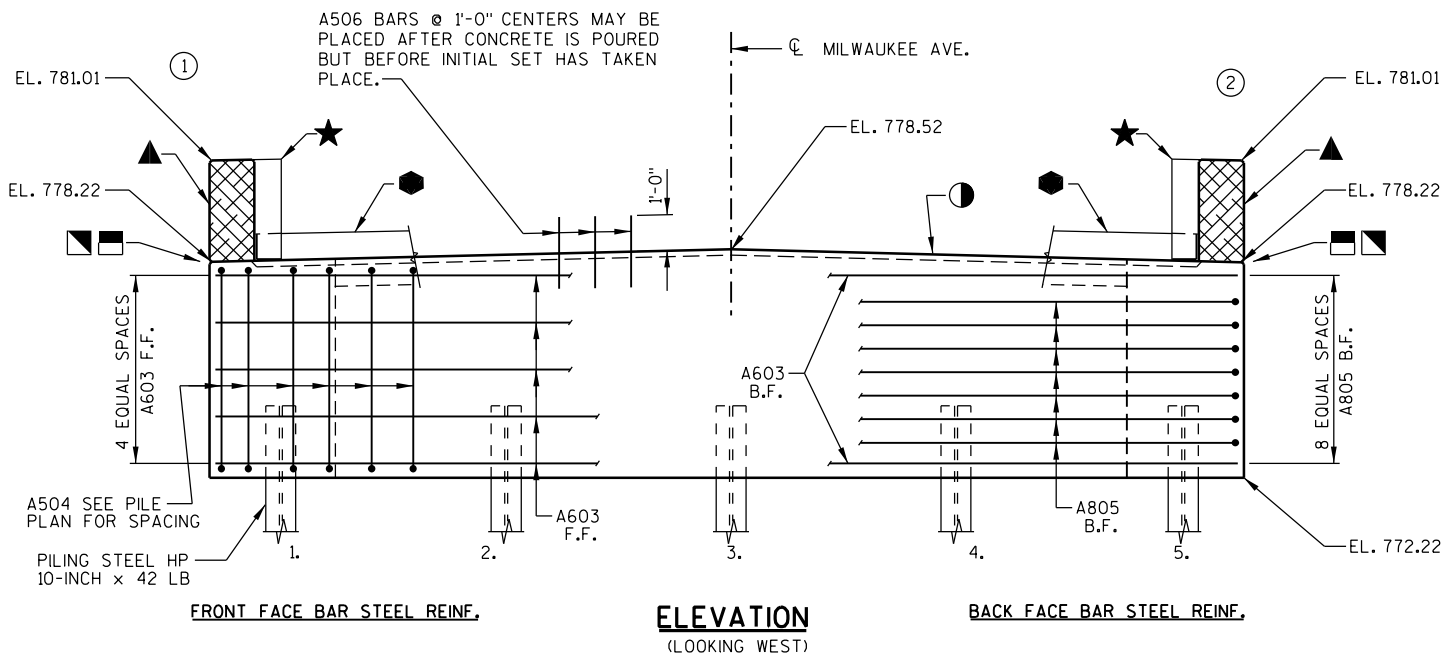
- KEYED CONSTRUCTION JOINT ON WING FORMED BY BEVELED 2x6. IF JOINT IS USED PLACE ON B.F. OF WING.
- ▤ 3/4" "V" GROOVE ON FRONT FACE OF WING WALL, REQ'D. ONLY WHERE CONST. JOINT IS USED.
- KEYED CONSTRUCTION JOINT FORMED BY BEVELED 2x6.
- ▲ 1/2" FILLER EXTEND AS SHOWN. SEAL ALL EXPOSED HORIZ. & VERT. SURFACES OF FILLER WITH NON-STAINING GRAY, NON-BITUMINOUS JOINT SEALER. (1" DEEP & HOLD 1/8" BELOW SURFACE OF CONCRETE).
- ▲ 4"x 3/4" FILLER, EXTEND FULL LENGTH OF ABUTMENT BETWEEN EDGES OF SLAB.
- ★ VERTICAL 18" WIDE RUBBERIZED MEMBRANE WATERPROOFING. EXTEND FROM BRIDGE SEAT TO TOP OF WINGS.
- HORIZONTAL 18" WIDE RUBBERIZED MEMBRANE WATERPROOFING. EXTEND BETWEEN WINGS. PLACE BOTTOM HALF HORIZONTAL AT HAUNCHED AREA OF WINGS AT CONSTRUCTION JOINT.
- PIPE UNDERDRAIN WRAPPED 6-INCH. EXTEND THRU GEOTEXTILE TYPE HR AT FACE OF RIPRAP HEAVY. SLOPE 0.5% MIN. TO SUITABLE DRAINAGE. PROVIDE RODENT PROTECTION AT ENDS OF PIPE. FOR RODENT SHIELD DETAILS SEE SHEET 7.
- INDICATES WING NUMBER

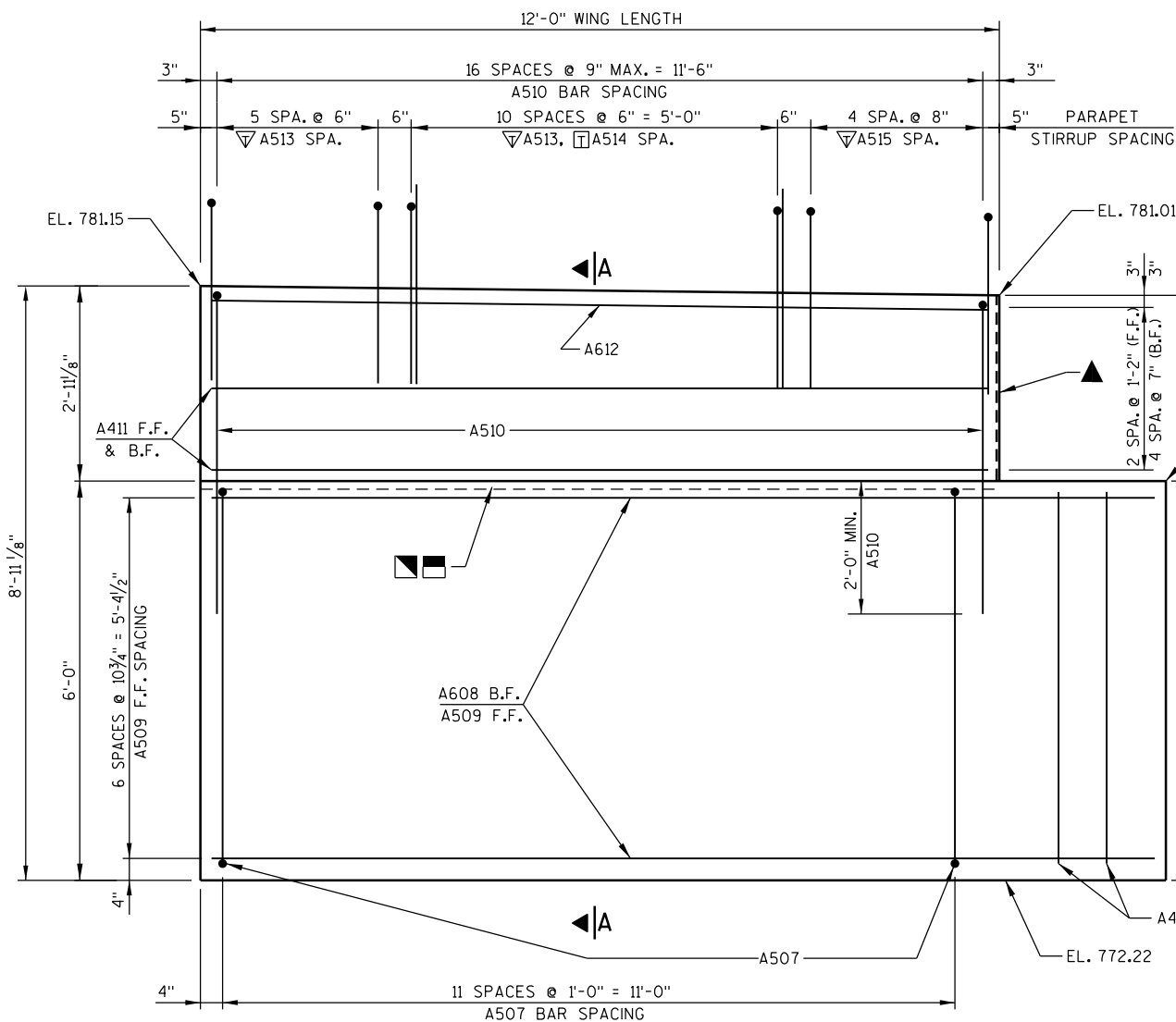
F.F. - FRONT FACE

B.F. - BACK FACE

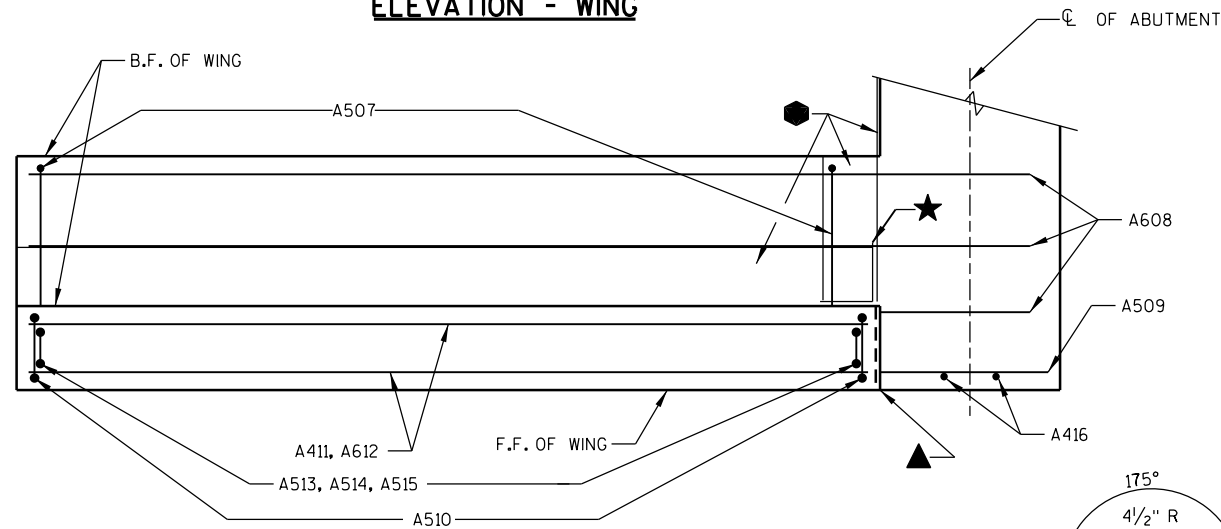
CL. - CLEAR

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
STRUCTURE		B-41-299	
DRAWN BY		RLR	PLANS CK'D. JRS
WEST ABUTMENT		SHEET 4 OF 9	

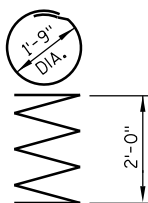
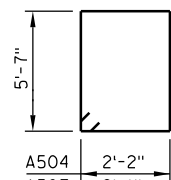




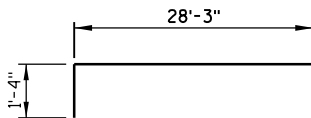
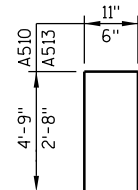
ELEVATION - WING



PLAN - WING

A401
5 WRAPS

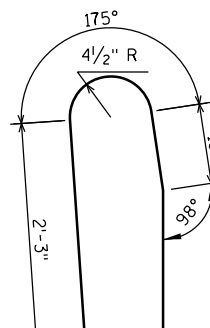
A504, A507

A805
STD. 90° HOOKS

A510, A513



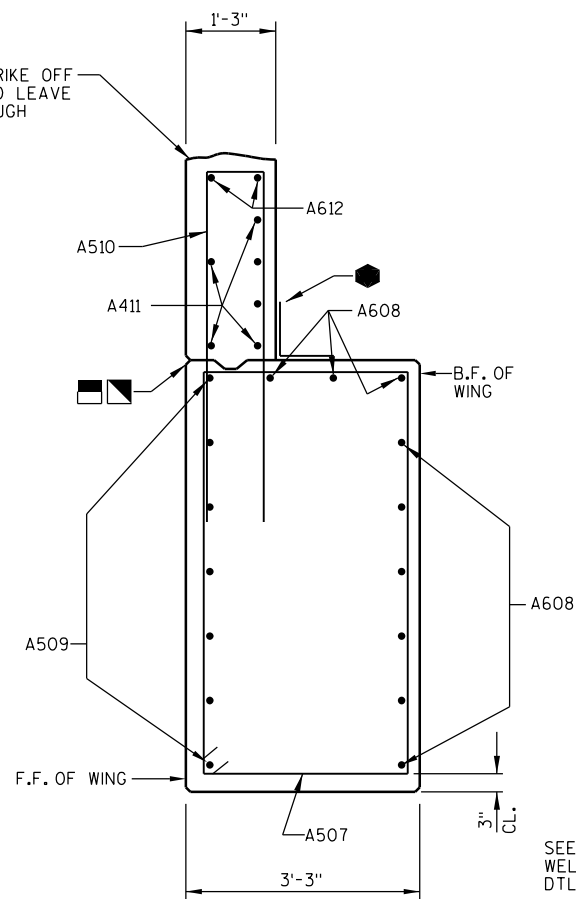
A514



A515

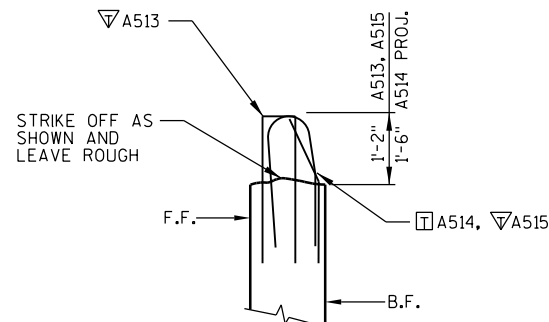
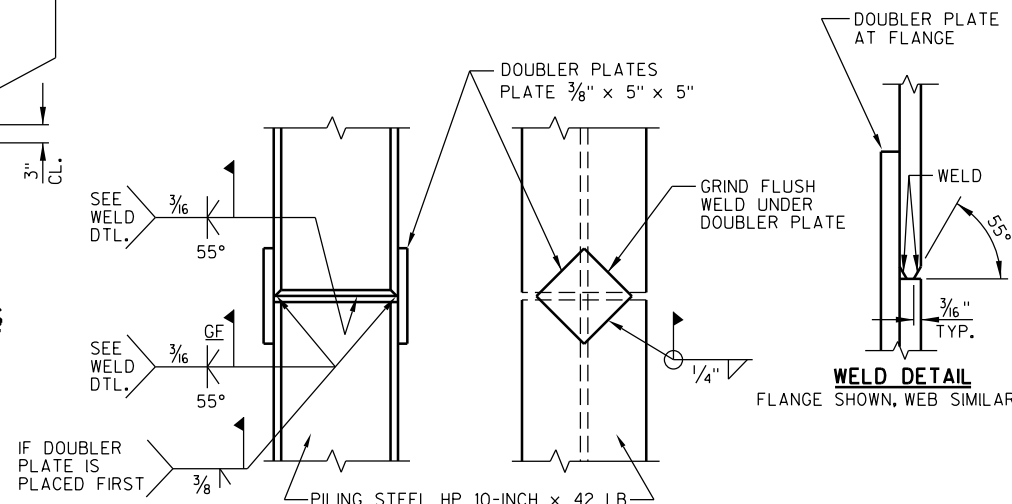
A514 BARS MAY BE PLACED AFTER CONCRETE IS POURED BUT BEFORE INITIAL SET HAS TAKEN PLACE. USE CARE TO PLACE A514 BARS CORRECTLY ALONG TRANSITION OF PARAPET.

A513 AND A515 BARS TO BE TIED TO WING STEEL BEFORE WING IS POURED.



SECTION A-A THRU WING

WING 1 SHOWN
WING 2 SIMILAR

PARAPET STIRRUP
PROJECTION DETAIL

PILE SPICE DETAILS

BILL OF BARS (WEST ABUT.)

(COATED) 1950 LBS.
(UNCOATED) 1760 LBS.

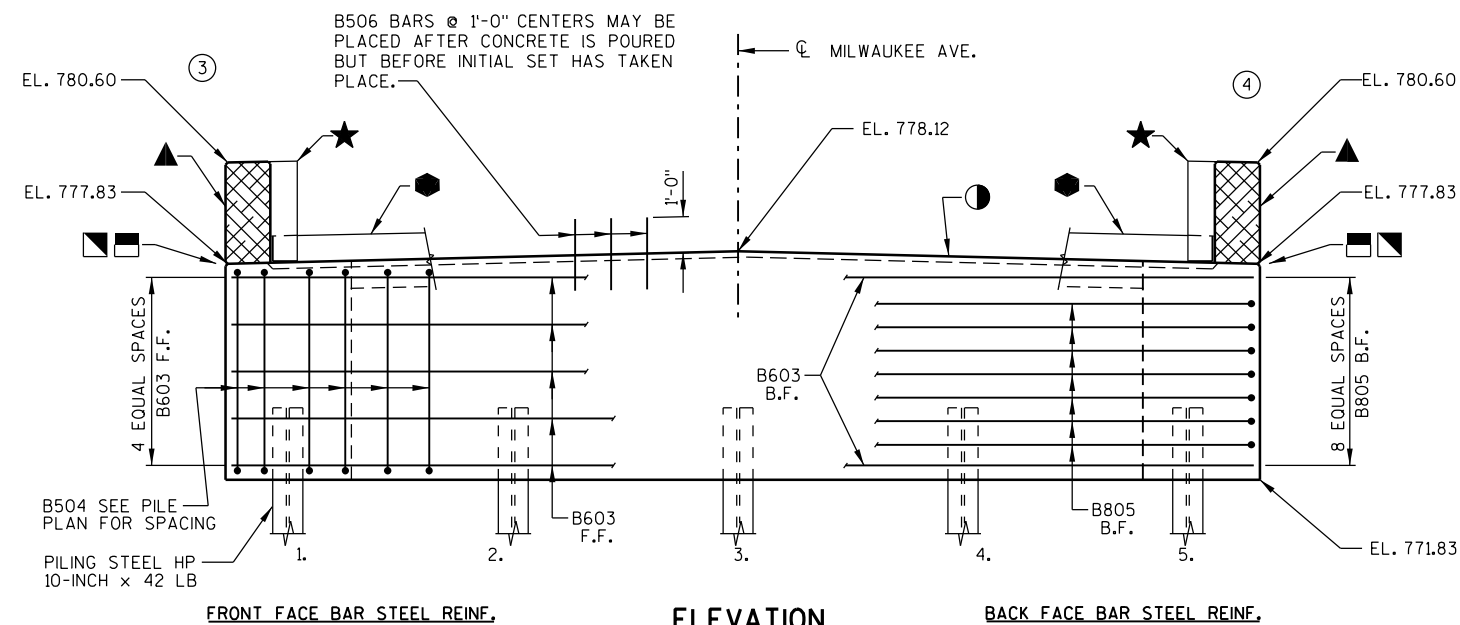
MARK	NUMBER COATED	REQUIRED UNCOATED	LENGTH	BENT	LOCATION
A401	-	5	28'-0"	X	ABUTMENT BODY - 1 SPIRAL WRAP @ EACH PILE
A402	-	10	2'-3"		ABUTMENT BODY - 2 @ EACH PILE - VERT.
A603	-	11	28'-5"		ABUTMENT BODY - F.F., TOP & BOTTOM - HORIZ.
A504	-	36	16'-2"	X	ABUTMENT BODY - STIRRUP - VERT.
A805	-	7	30'-6"	X	ABUTMENT BODY - B.F. @ WINGS - HORIZ.
A506	27	-	2'-0"		ABUTMENT BODY - TOP - DOWELS - VERT.
A507	24	-	17'-8"	X	WINGS 1 & 2 - BASE - STIRRUP - VERT.
A608	18	-	13'-11"		WINGS 1 & 2 - BASE - B.F. & TOP - HORIZ.
A509	14	-	14'-2"		WINGS 1 & 2 - BASE - F.F. - HORIZ.
A510	34	-	10'-2"	X	WINGS 1 & 2 - TOP - STIRRUP - VERT.
A411	12	-	11'-7"		WINGS 1 & 2 - TOP - F.F. & B.F. - HORIZ.
A612	4	-	11'-7"		WINGS 1 & 2 - TOP - F.F. & B.F. - HORIZ.
A513	34	-	5'-7"	X	WINGS 1 & 2 - TOP - PARAPET STIRRUP - VERT.
A514	22	-	3'-0"	X	WINGS 1 & 2 - TOP - PARAPET STIRRUP - VERT.
A515	10	-	5'-10"	X	WINGS 1 & 2 - TOP - PARAPET STIRRUP - VERT.
A416	4	-	5'-7"		ABUTMENT BODY - WINGS 1 & 2 - END - VERT.

DIMENSIONS IN BENDING DETAILS ARE OUT TO OUT OF BAR.

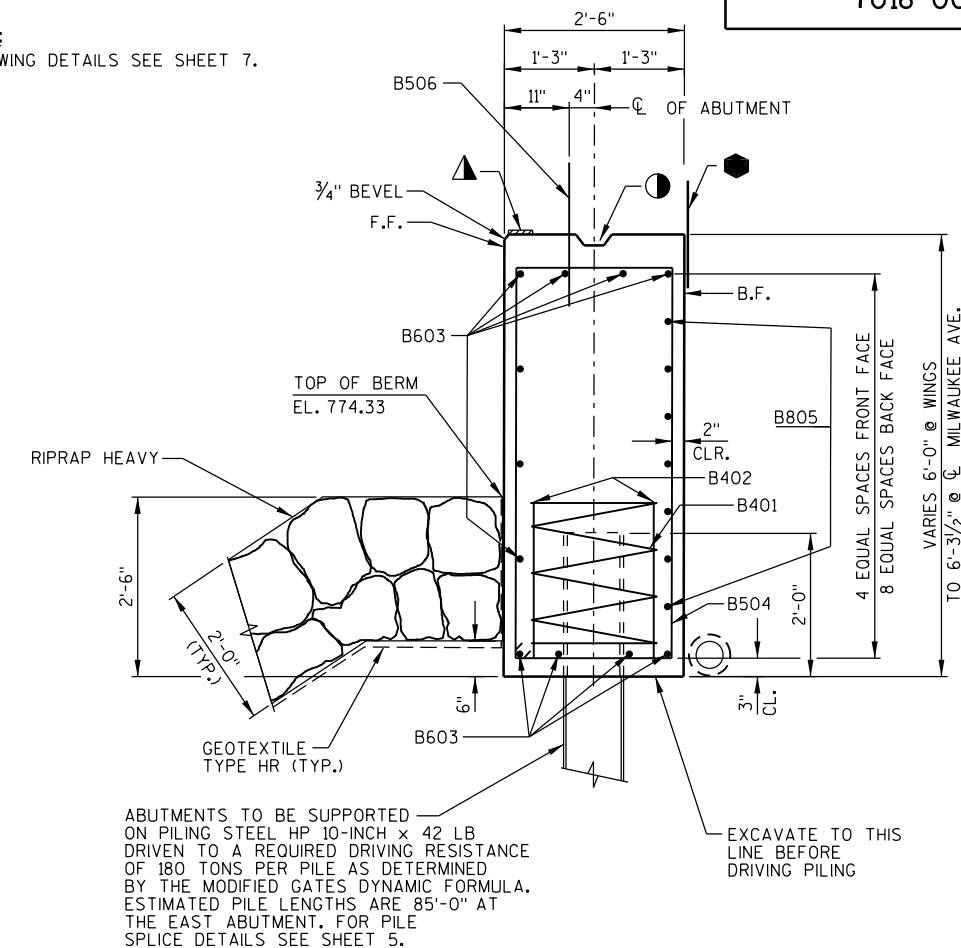
SEE SHEET 4 LEGEND
FOR DESCRIPTION OF



NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
STRUCTURE		B-41-299	
DRAWN BY		RLR	PLANS CK'D. JRS
WEST ABUTMENT DETAILS		SHEET 5 OF 9	

ELEVATION
(LOOKING EAST)

NOTE:
FOR WING DETAILS SEE SHEET 7.

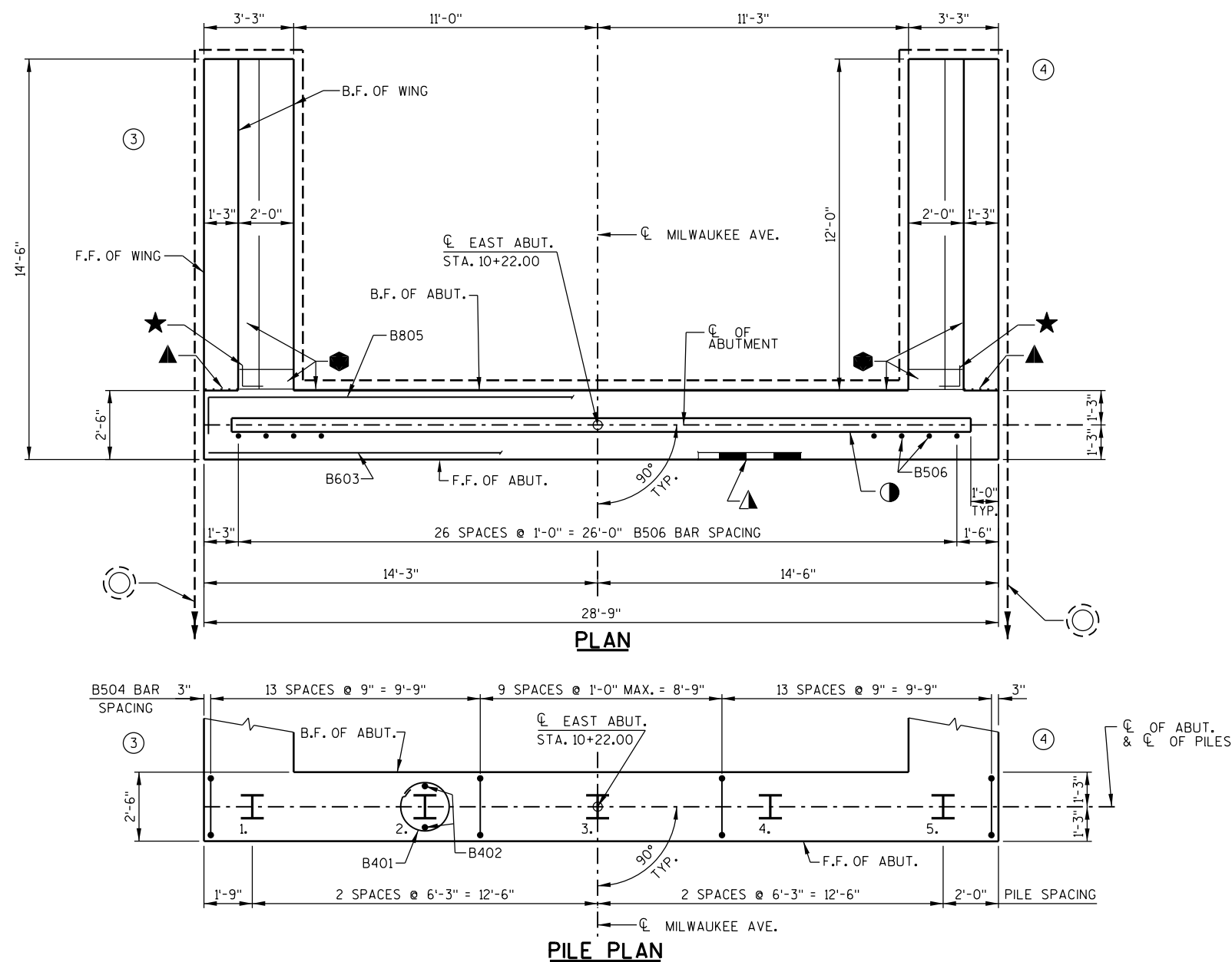


TYPICAL SECTION THRU ABUTMENT

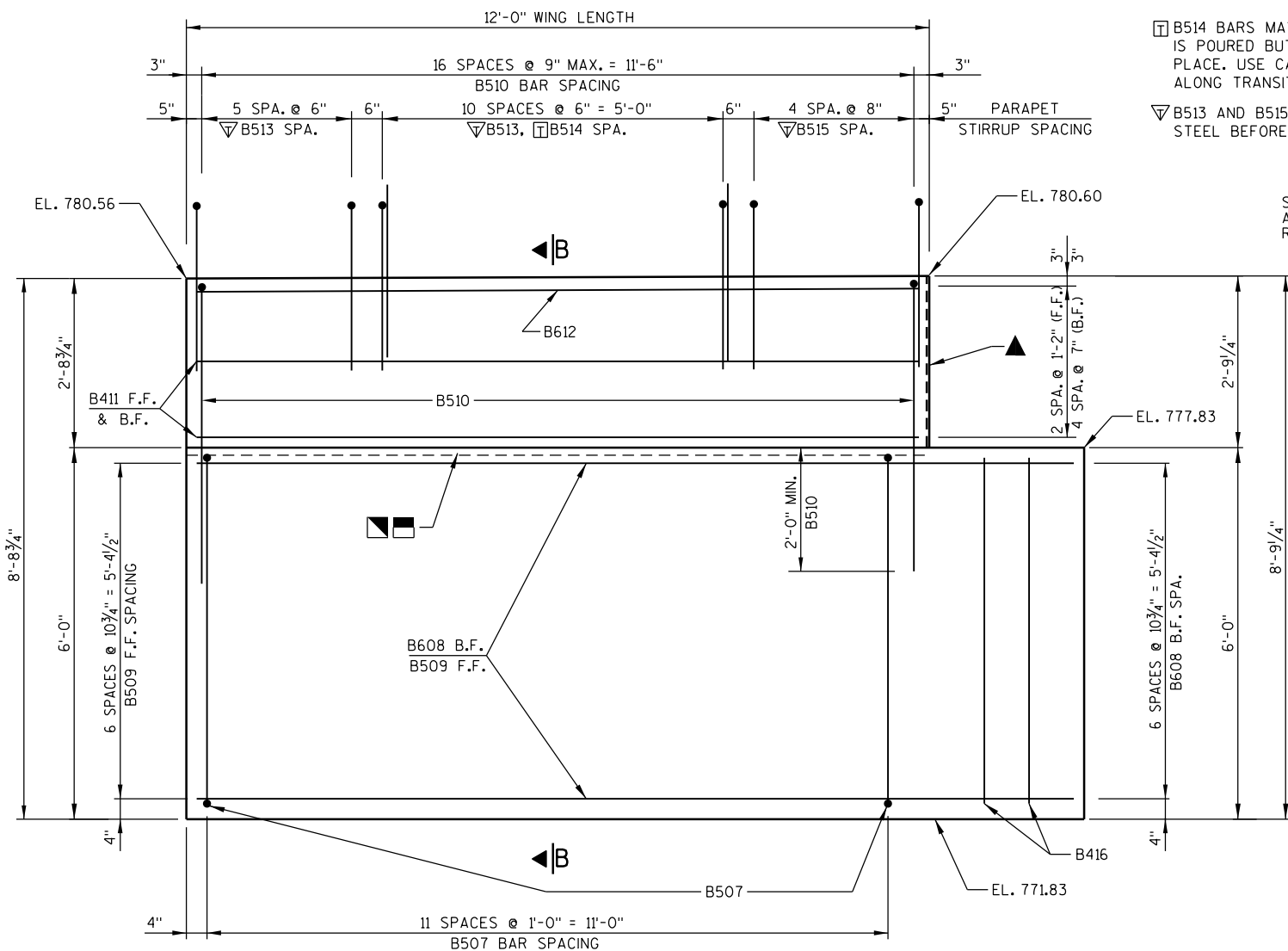
LEGEND

- KEYED CONSTRUCTION JOINT ON WING FORMED BY BEVELED 2x6. IF JOINT IS USED PLACE ON B.F. OF WING.
- ▤ 3/4" "V" GROOVE ON FRONT FACE OF WING WALL, REQ'D. ONLY WHERE CONST. JOINT IS USED.
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- INDICATES WING NUMBER

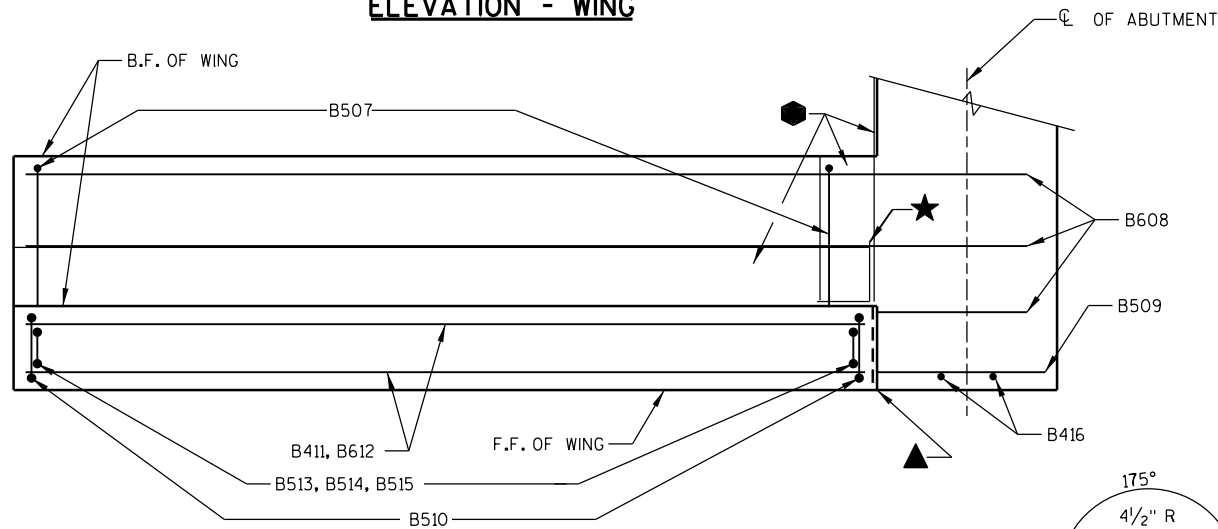
F.F. - FRONT FACE
B.F. - BACK FACE
CL. - CLEAR



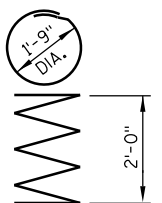
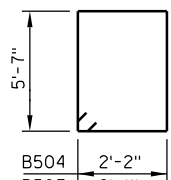
NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
STRUCTURE		B-41-299	
DRAWN BY		RLR	PLANS CK'D. JRS
EAST ABUTMENT		SHEET 6 OF 9	



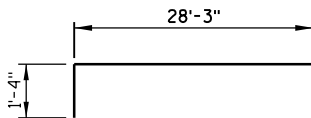
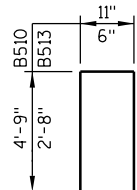
ELEVATION - WING



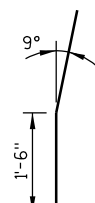
PLAN - WING

B401
5 WRAPS

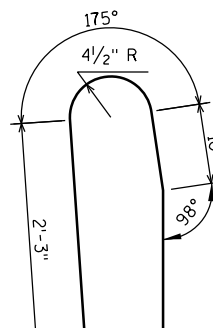
B504, B507

B805
STD. 90° HOOKS

B510, B513



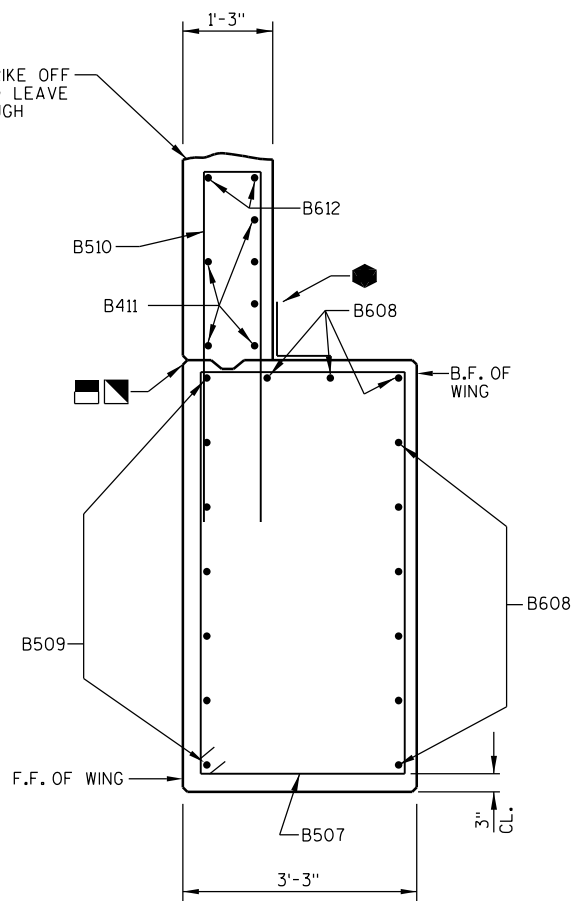
B514



B515

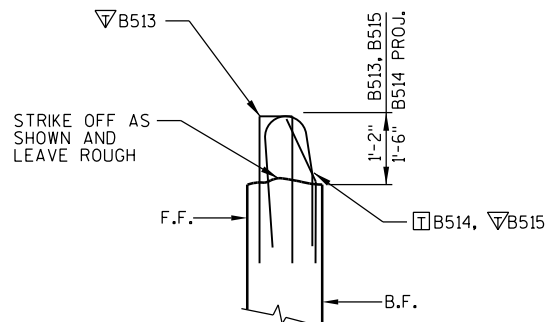
▮ B514 BARS MAY BE PLACED AFTER CONCRETE IS POURED BUT BEFORE INITIAL SET HAS TAKEN PLACE. USE CARE TO PLACE B514 BARS CORRECTLY ALONG TRANSITION OF PARAPET.

▽ B513 AND B515 BARS TO BE TIED TO WING STEEL BEFORE WING IS POURED.



SECTION B-B THRU WING

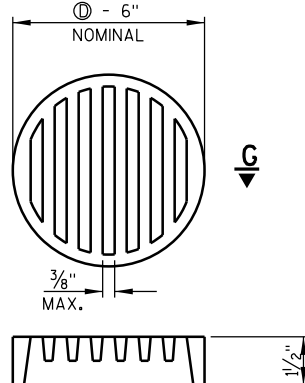
WING 3 SHOWN
WING 4 SIMILAR

PARAPET STIRRUP
PROJECTION DETAIL

RODENT SHIELD NOTES:

ORIENT SHIELD SO SLOTS ARE VERTICAL.

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 ATTACHEMENT 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. THE RODENT SHIELD, PIPE COUPLING AND SCREWS, SHALL BE INCLUDED IN THE BID ITEM "PIPE UNDERDRAIN WRAPPED 6-INCH".



SECTION G-G

RODENT SHIELD

① - DIMENSIONS ARE APPROXIMATE. THE GRATE IS SIZED TO FIT INTO A PIPE COUPLING.

BILL OF BARS (EAST ABUT.)

(COATED) 1950 LBS.
(UNCOATED) 1760 LBS.

MARK	NUMBER REQUIRED COATED	UNCOATED	LENGTH	BENT	LOCATION
B401	-	5	28'-0"	X	ABUTMENT BODY - 1 SPIRAL WRAP @ EACH PILE
B402	-	10	2'-3"		ABUTMENT BODY - 2 @ EACH PILE - VERT.
B603	-	11	28'-5"		ABUTMENT BODY - F.F., TOP & BOTTOM - HORIZ.
B504	-	36	16'-2"	X	ABUTMENT BODY - STIRRUP - VERT.
B805	-	7	30'-6"	X	ABUTMENT BODY - B.F. @ WINGS - HORIZ.
B506	27	-	2'-0"		ABUTMENT BODY - TOP - DOWELS - VERT.
B507	24	-	17'-8"	X	WINGS 3 & 4 - BASE - STIRRUP - VERT.
B608	18	-	13'-11"		WINGS 3 & 4 - BASE - B.F. & TOP - HORIZ.
B509	14	-	14'-2"		WINGS 3 & 4 - BASE - F.F. - HORIZ.
B510	34	-	10'-2"	X	WINGS 3 & 4 - TOP - STIRRUP - VERT.
B411	12	-	11'-7"		WINGS 3 & 4 - TOP - F.F. & B.F. - HORIZ.
B612	4	-	11'-7"		WINGS 3 & 4 - TOP - F.F. & B.F. - HORIZ.
B513	34	-	5'-7"	X	WINGS 3 & 4 - TOP - PARAPET STIRRUP - VERT.
B514	22	-	3'-0"	X	WINGS 3 & 4 - TOP - PARAPET STIRRUP - VERT.
B515	10	-	5'-10"	X	WINGS 3 & 4 - TOP - PARAPET STIRRUP - VERT.
B416	4	-	5'-7"		ABUTMENT BODY - WINGS 3 & 4 - END - VERT.

DIMENSIONS IN BENDING DETAILS ARE OUT TO OUT OF BAR.

SEE SHEET 6 LEGEND
FOR DESCRIPTION OF



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EAST ABUTMENT DETAILS		SHEET 7 OF 9	

GENERAL NOTES

ALL SLAB THICKNESS DIMENSIONS ARE MINIMUM. ANY TOLERANCES NECESSARY TO CORRECT CONSTRUCTION DISCREPANCIES ARE TO BE PLUS (+).

TOP TRANSVERSE BARS IN SLAB SHALL BE SUPPORTED BY INDIVIDUAL BAR CHAIRS AT APPROXIMATELY 3'-0" CENTERS EACH WAY. BOTTOM LONGITUDINAL BARS SHALL BE SUPPORTED BY CONTINUOUS BAR CHAIRS AT APPROXIMATELY 4'-0" CENTERS.

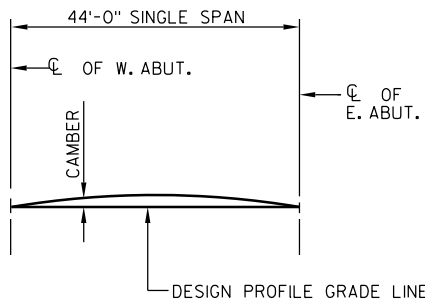
SURVEY TOP OF SLAB ELEVATIONS

LOCATION	SPAN POINT	NORTH SLAB EDGE	C/L MILWAUKEE AVENUE	SOUTH SLAB EDGE
WEST ABUT.	1.0	780.985	781.28	781.095
	1.5	780.83	781.14	780.915
EAST ABUT.	2.0	780.59	780.85	780.6

PRIOR TO RELEASING SLAB FALSEWORK, TAKE TOP OF SLAB ELEVATIONS AT THE C/L OF ABUTMENTS AND AT THE 0.5 PTS. TO VERIFY CAMBER. TAKE ELEVATIONS ALONG EDGE OF SLAB AND CROWN OR C/L. RECORD THE ELEVATIONS IN THE ABOVE TABLE FOR THE "AS BUILT" PLANS.

TOP OF SLAB ELEVATIONS AND CAMBER VALUES

LOCATION	SPAN POINT	SOUTH SLAB EDGE	C/L MILWAUKEE AVENUE	NORTH SLAB EDGE	CAMBER VALUE (INCHES)
WEST ABUT.	1.0	781.00	781.26	781.00	0.0
	1.1	780.95	781.21	780.95	0.5
	1.2	780.90	781.16	780.90	1.0
	1.3	780.85	781.11	780.85	1.4
	1.4	780.80	781.07	780.81	1.6
	1.5	780.76	781.02	780.76	1.7
	1.6	780.72	780.99	780.73	1.6
	1.7	780.69	780.95	780.69	1.4
	1.8	780.65	780.92	780.66	1.0
	1.9	780.63	780.89	780.63	0.5
EAST ABUT.	2.0	780.60	780.87	780.61	0.0



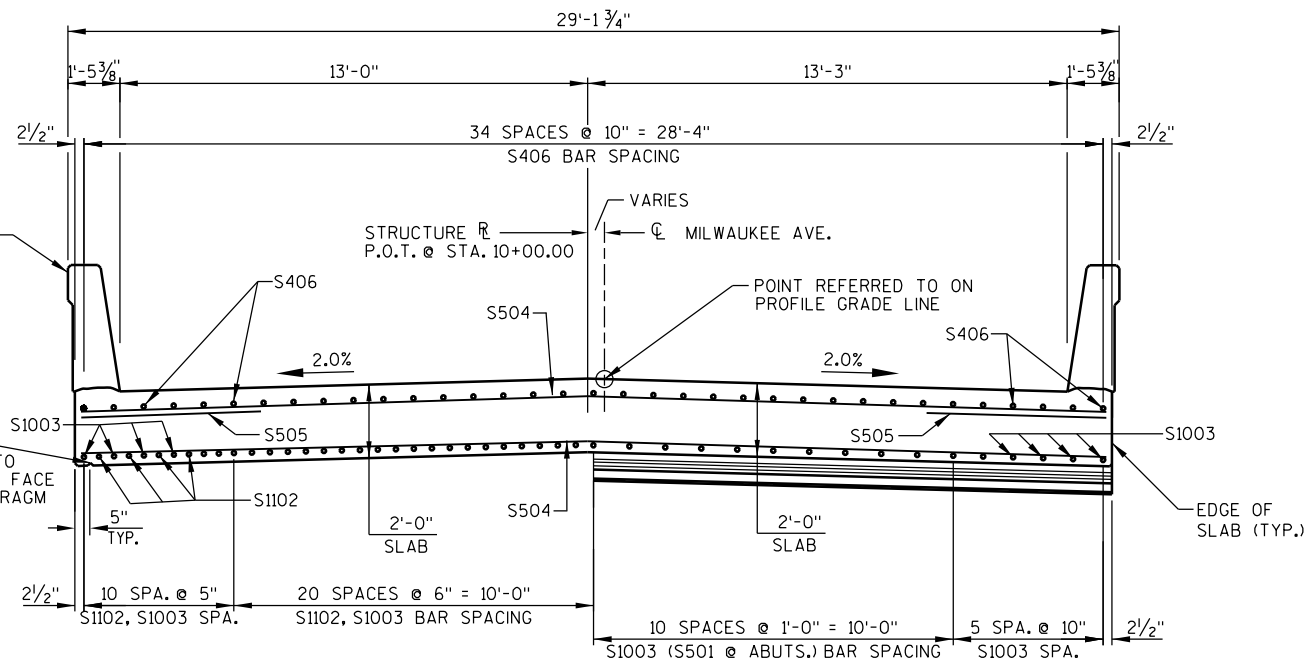
CAMBER DIAGRAM

CAMBER SPANS AS SHOWN ABOVE AND IN THE TABLE OF VALUES TO PROVIDE FOR DEAD LOAD DEFLECTION AND FUTURE CREEP. CAMBER DOES NOT INCLUDE ALLOWANCE FOR FORM SETTLEMENT. DEAD LOAD DEFLECTION APPROXIMATES 1/3 OF CAMBER VALUES SHOWN.

TO DETERMINE FALSEWORK ELEVATION AT EDGE OF SLAB, CROWN OR REFERENCE LINE, FOLLOW THIS PROCEDURE:

TOP OF SLAB ELEVATION AT FINAL GRADE

- SLAB THICKNESS
- + CAMBER
- + FORM SETTLEMENT/DEFLECTION DUE TO PLACEMENT OF SLAB CONCRETE (TO BE COMPUTED BY THE CONTRACTOR)
- = TOP OF SLAB FALSEWORK ELEVATION

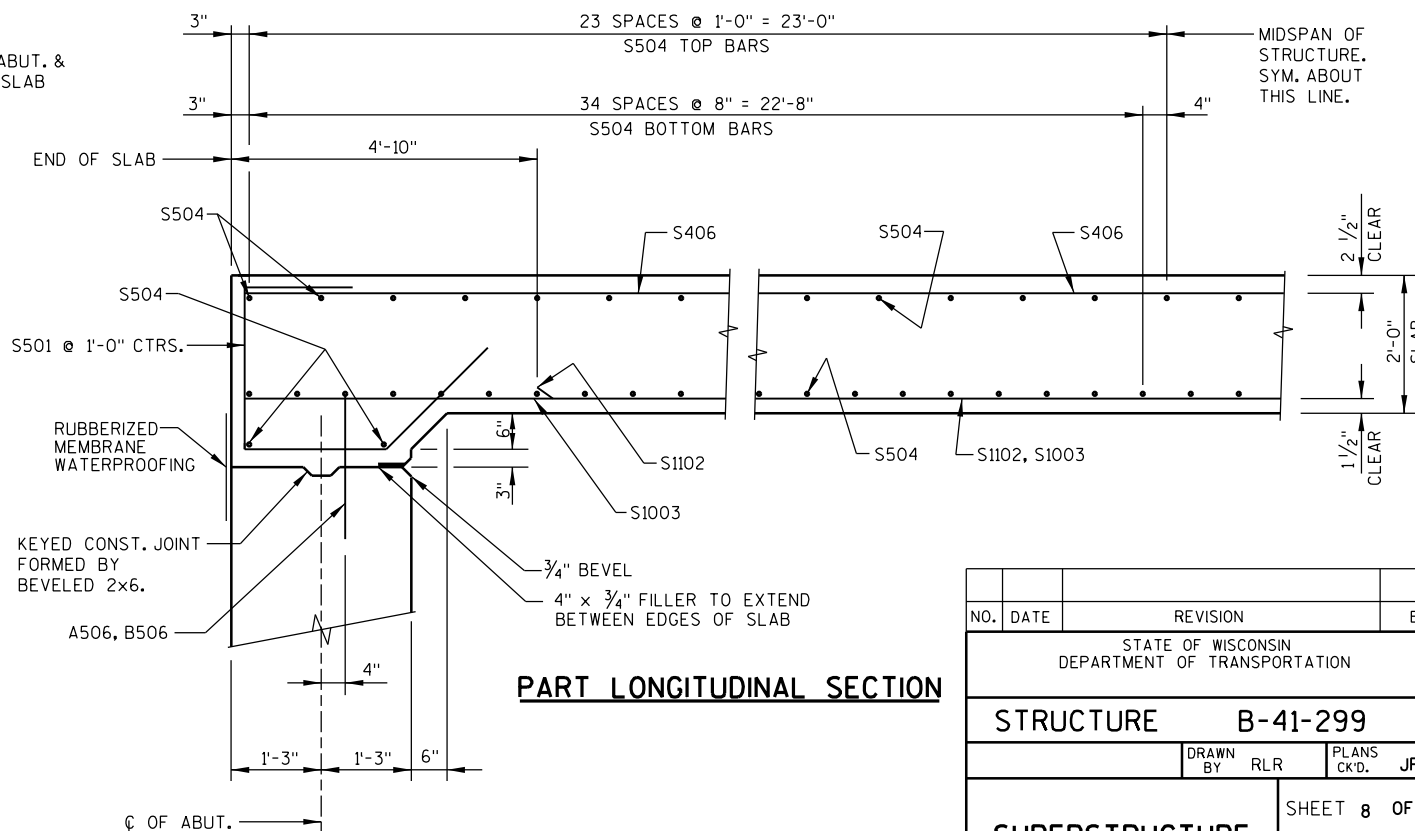
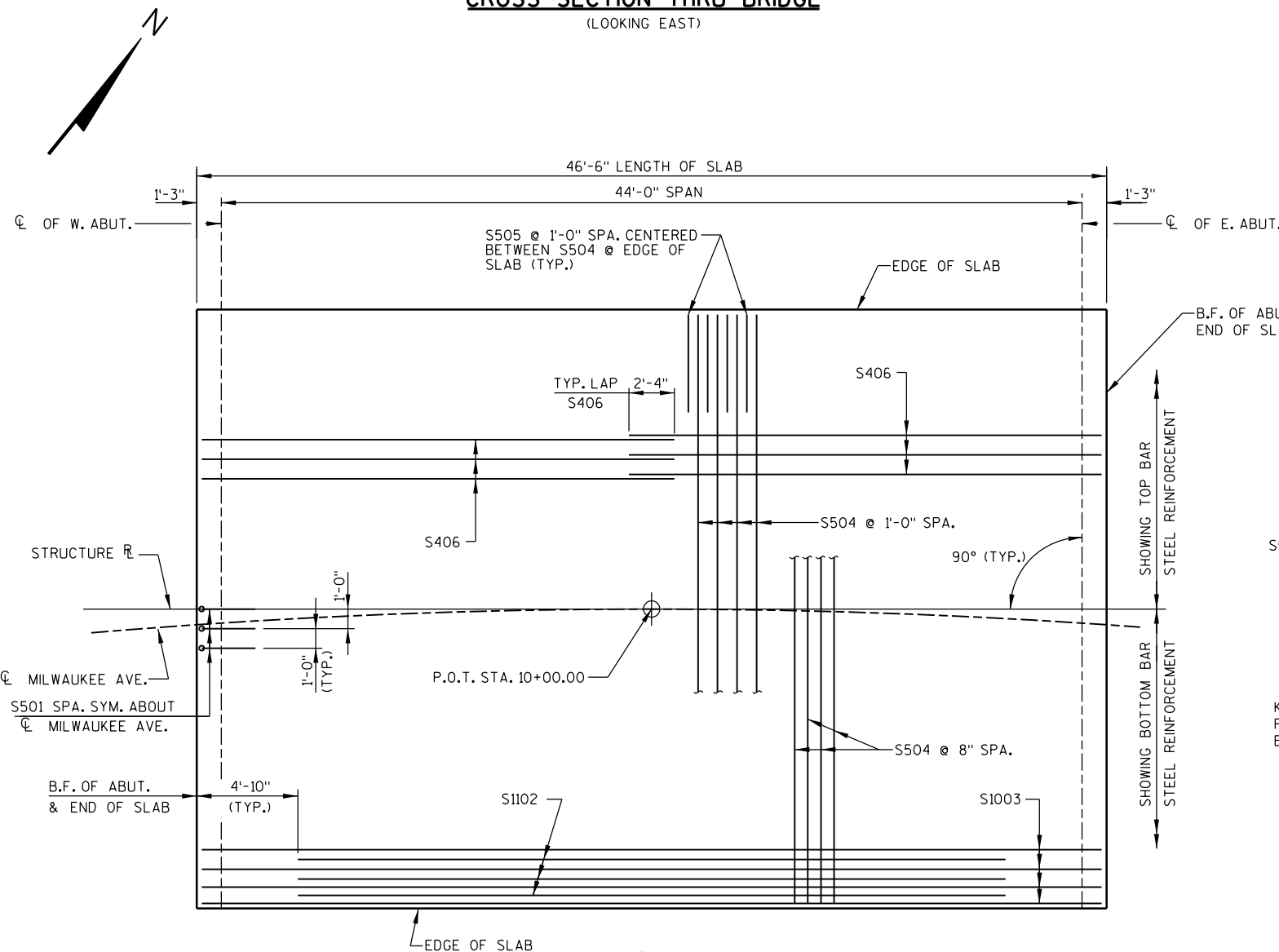


IN SPAN

AT ABUTMENTS

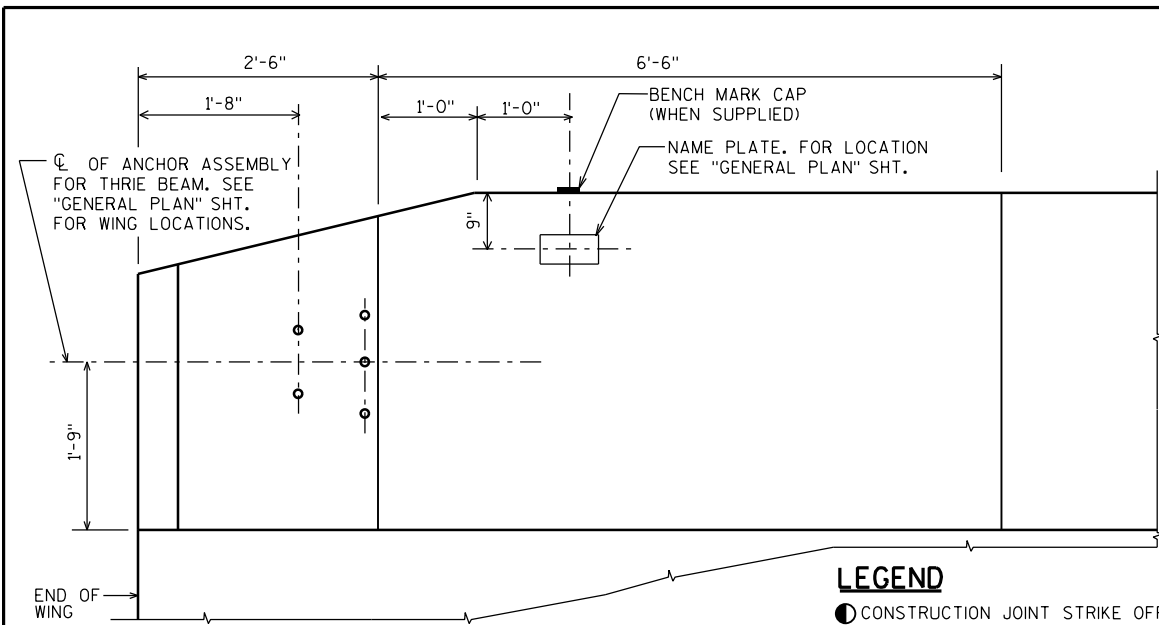
CROSS SECTION THRU BRIDGE

(LOOKING EAST)

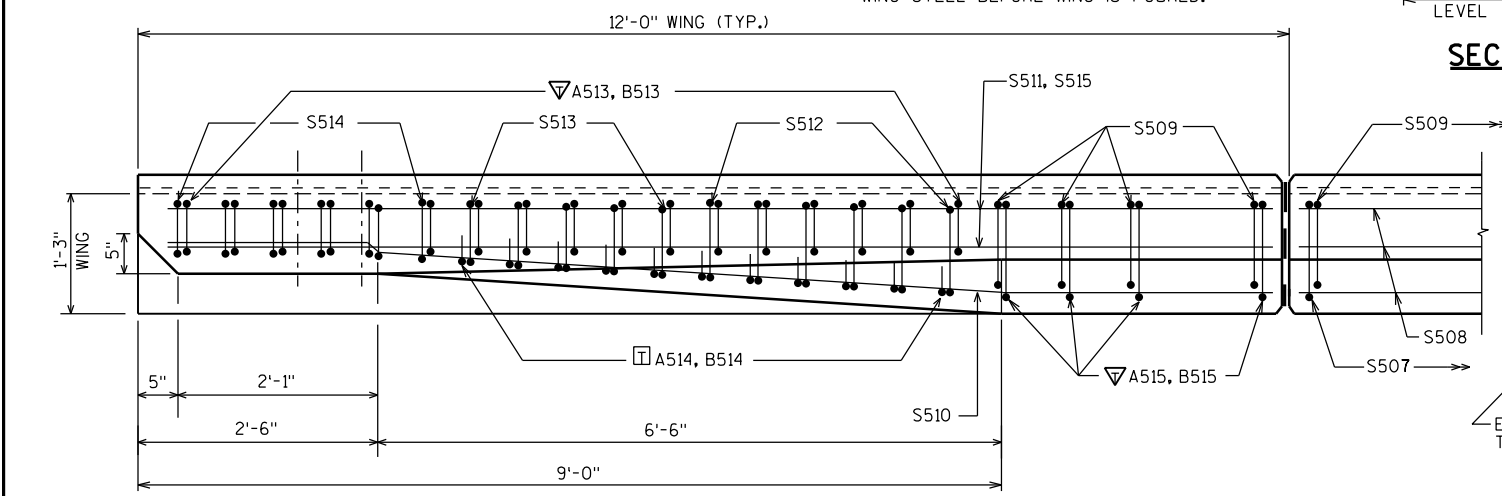


PART LONGITUDINAL SECTION

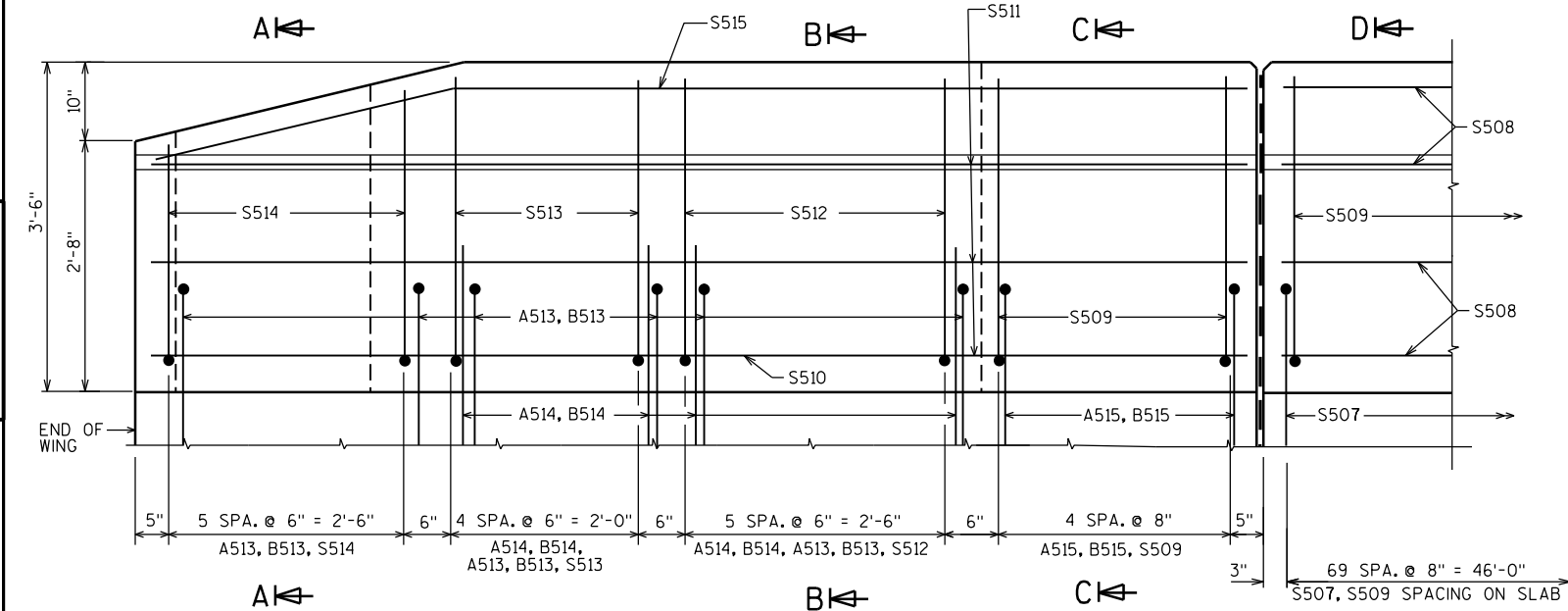
NO.	DATE	REVISION	BY
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DRAWN BY RLR		PLANS CK'D. JRS	
SUPERSTRUCTURE			SHEET 8 OF 9



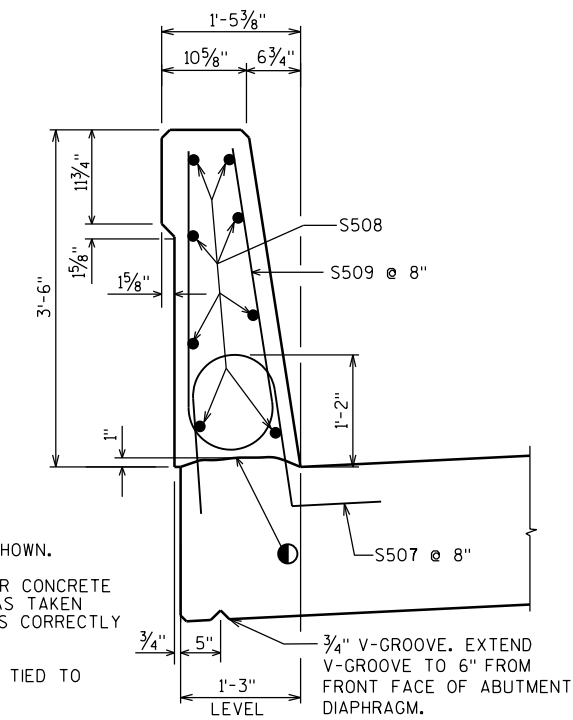
INSIDE ELEVATION



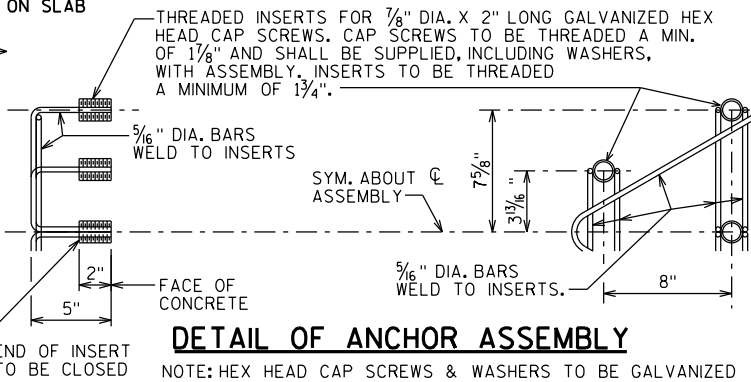
PLAN



OUTSIDE ELEVATION



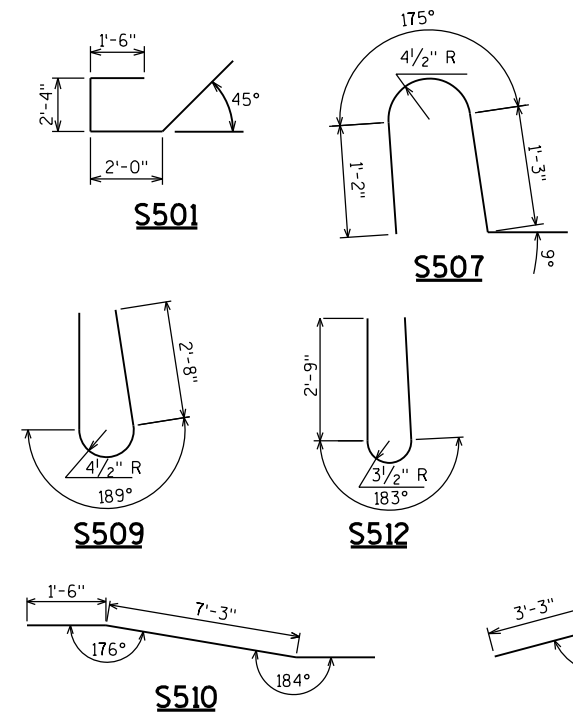
SECTION D-D
ON SLAB



DETAIL OF ANCHOR ASSEMBLY

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

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



BILL OF BARS (COATED) 21,050 LBS.

MARK	NO. REQ'D.	LENGTH	BENT	BAR SERIES	LOCATION
S501	60	7'-6"	X		DIAPHRAGM @ ABUTS. - LONGIT.
S1102	30	36'-10"			SLAB BOTTOM - LONGIT.
S1003	31	46'-2"			SLAB BOTTOM - LONGIT.
S504	121	28'-5"			SLAB TOP & BOTTOM - TRANS.
S505	92	5'-0"			SLAB TOP @ EDGE OF SLAB - TRANS.
S406	70	24'-3"			SLAB TOP - LONGIT.
S507	140	4'-5"	X		PARAPET ON SLAB - STIRRUP - VERT.
S508	16	46'-2"			PARAPET ON SLAB - LONGIT.
S509	160	6'-8"	X		PARAPET - STIRRUP - VERT.
S510	4	11'-7"	X		PARAPET ON WING - BOTTOM - LONGIT.
S511	20	11'-7"			PARAPET ON WING - LONGIT.
S512	24	6'-6"	X		PARAPET ON WING - STIRRUP - VERT.
S513	20	6'-5"	X		PARAPET ON WING - STIRRUP - VERT.
S514	24	5'-5"	X		PARAPET ON WING - END - STIRRUP - VERT.
S515	8	11'-8"	X		PARAPET PARAPET ON WING - TOP - LONGIT.

DIMENSIONS IN BENDING DETAILS ARE OUT TO WING OF BAR. EPOXY COAT ALL SUPERSTRUCTURE BAR STEEL REINFORCEMENT.

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

BAR SERIES TABLE

MARK	NO. REQ'D.	LENGTH
S514	4 SERIES OF 6	4'-9" TO 6'-1"

BUNDLE AND TAG EACH SERIES SEPARATELY.

NO.	DATE	REVISION	BY
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STRUCTURE		B-41-299	
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SINGLE SLOPE PARAPET 42SS		SHEET 9 OF 9	