SEPTEMBER 2017 ORDER OF SHEETS PROJECT ID: Section No. 3 5018-00-71 COUNTY: MONROE

TOWN ROA MONROE COU STRUCTURE AS-BUILT PLAN SUPERVISOR: Reiny Yahnke PROJECT LEADER: Jeff Merten, ISG PRIME CONTRACTOR: Concrete Structures WORK STARTED: 4/2/2018 WORK COMPLETED: 7/2/2018 CONTRACT ID: 20171114008 DESIGN DESIGNATION AAD.T. 2018 * 100 AAD.T. 2	SecTION No. 7 SIGN Plates SecTION No. 9 Stricture Plans SecTION No. 9 Stricture Plans SecTION No. 9 Cross	Section No. 4 Right of Way Section No. 5 Plan and Prof	Plat lle (Includes Erosion Control	Plans)	PLAN OF PROPOSED IMPR
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Typical Sections and Details Estimate of Quantitles

Miscellaneous Quantities

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

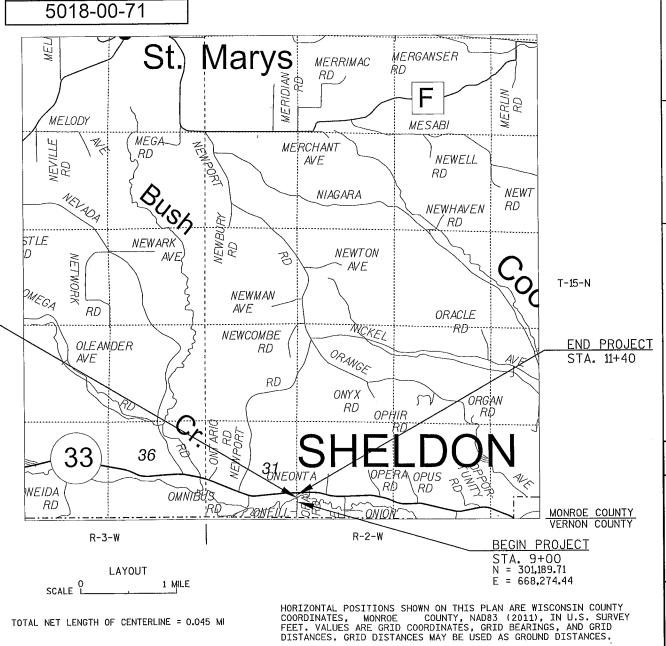
SED IMPROVEMENT

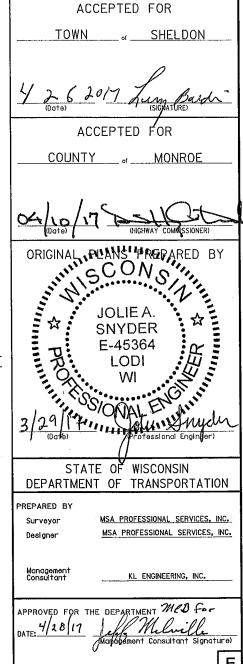
DON, OPAL ROAD

BRIDGE B-41-0313)

N ROAD

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FEDERAL PROJECT

CONTRACT

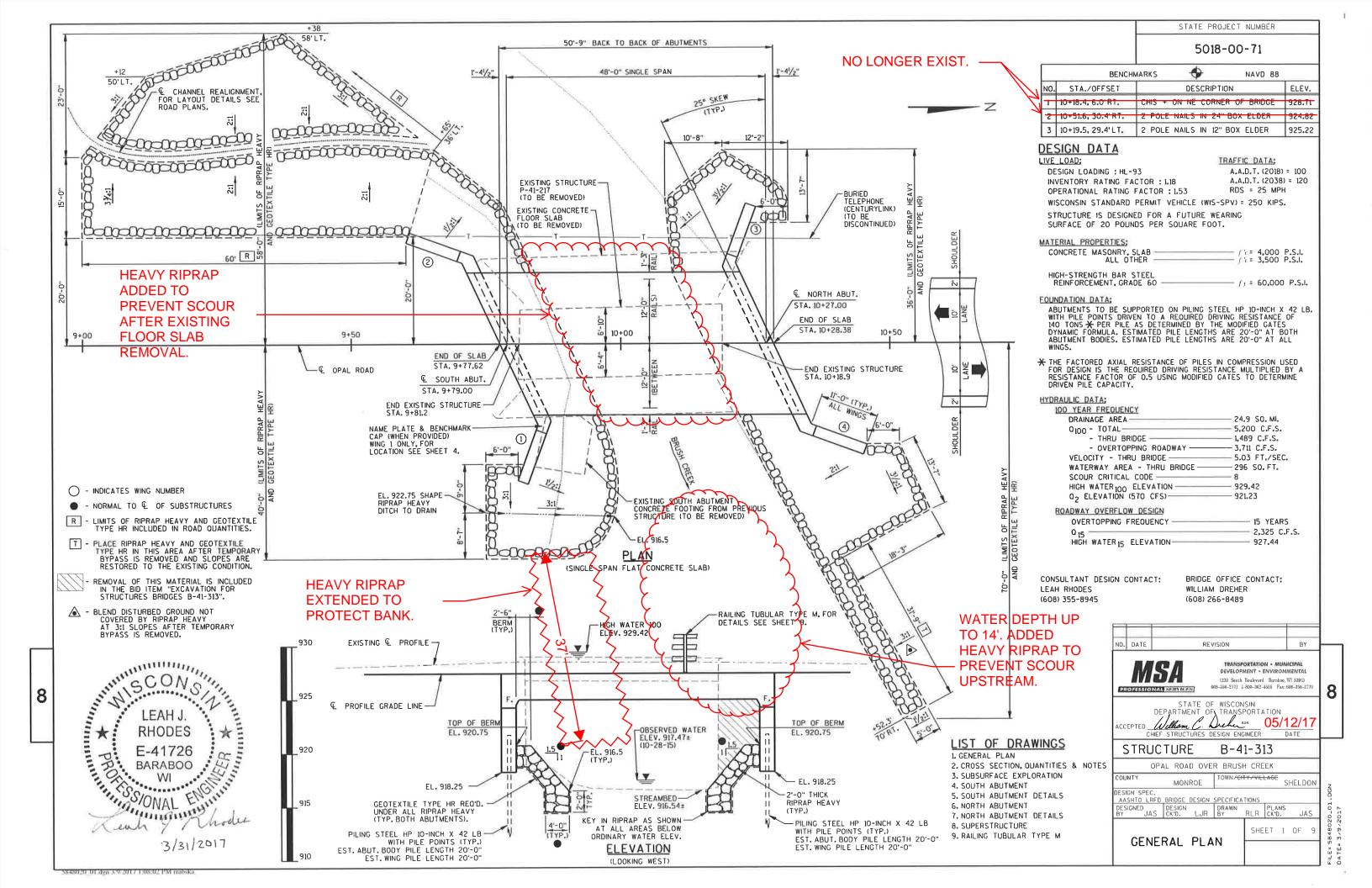
PROJECT

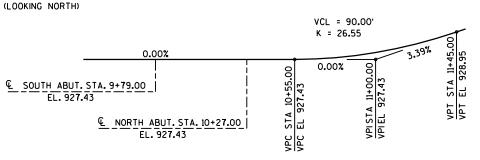
WISC 2017450

STATE PROJECT

5018-00-71

PLOT NAME :





PROFILE GRADE LINE - OPAL ROAD

TOTAL ESTIMATED QUANTITIES

ITEM NUMBER	BID ITEM	UNIT	SOUTH ABUT.	NORTH ABUT.	SUPER	TOTAL
203.0600.S.01	REMOVING OLD STRUCTURE OVER WATERWAY WITH MINIMAL DEBRIS STATION 10+00	LS	-	-	-	1
206.1000.01	EXCAVATION FOR STRUCTURES BRIDGES B-41-313	LS	-	-	-	1
210.1500	BACKFILL STRUCTURE TYPE A	TON	190	190	-	380
502.0100	CONCRETE MASONRY BRIDGES	CY	35	35	113	183
502.3200	PROTECTIVE SURFACE TREATMENT	SY	22	22	185	229
505.0400	BAR STEEL REINFORCEMENT HS STRUCTURES	LB	2290	2290	-	4580
505.0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	LB	1735	1735	19500	22970
513.4061.01	RAILING TUBULAR TYPE M B-41-313	LF	-	-	105	105
516.0500	RUBBERIZED MEMBRANE WATERPROOFING	SY	6.5	6.5	-	13
550.0500	PILE POINTS	EACH	7	7	-	14
550.1100	PILING STEEL HP 10-INCH X 42 LB	LF	140	140	-	280
606.0300	RIPRAP HEAVY	CY	100	120	-	220
612.0406	PIPE UNDERDRAIN WRAPPED 6-INCH	LF	95	95	-	190
645.0111	GEOTEXTILE TYPE DF SCHEDULE A	SY	50	50	-	100
645.0120	GEOTEXTILE TYPE HR	SY	180	225	-	405
SPV.0105.01	TEMPORARY WATER DIVERSION, UNNAMED TRIBUTARY TO BRUSH CREEK	LS	-	-	-	1
	NON-BID ITEMS					
	PREFORMED FILLER	SIZE				1/2" & 3/4"

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

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

THE FIRST DIGIT OF A THREE DIGIT BAR MARK AND THE FIRST TWO DIGITS OF A FOUR DIGIT BAR MARK SIGNIFY THE BAR SIZE.

THE SLOPE OF THE FILL IN FRONT OF THE ABUTMENTS SHALL BE COVERED WITH RIPRAP HEAVY AND GEOTEXTILE TYPE HR TO THE LIMITS SHOWN ON SHEET 1 AND ON THE ABUTMENT SHEETS OR AS DIRECTED BY THE ENGINEER.

THE EXISTING GROUNDLINE SHALL BE THE UPPER LIMITS OF "EXCAVATION FOR STRUCTURES" FOR THE ABUTMENTS.

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

THIS STRUCTURE WILL REPLACE EXISTING STRUCTURE P-41-217, A 13 FT. WIDE BY 37.7 FT. LONG STEEL DECK GIRDER BRIDGE SUPPORTED ON FULL RETAINING CONCRETE ABUTMENTS. THE EXISTING STRUCTURE INCLUDES AN EXISTING CONCRETE FLOOR SLAB WHICH SHALL BE REMOVED. REMNANTS OF A CONCRETE FOOTING FROM A PREVIOUS STRUCTURE LOCATED NEAR THE SOUTHEAST WINGWALL SHALL ALSO BE REMOVED. REMOVAL OF THE SLAB AND FOOTING SHALL BE INCLUDED IN THE BID ITEM "REMOVING OLD STRUCTURE OVER WATERWAY WITH MINIMAL DEBRIS STATION 10+00".

OF ABUTMENT DIAPHRAGM. (B)-BACKFILL PAY LIMITS, BACKFILL BEYOND BACKFILL PAY LIMITS SHALL BE INCIDENTAL TO EXCAVATION FOR STRUCTURES, LIMITS OF EXCAVATION SHALL BE DETERMINED BY THE CONTRACTOR.

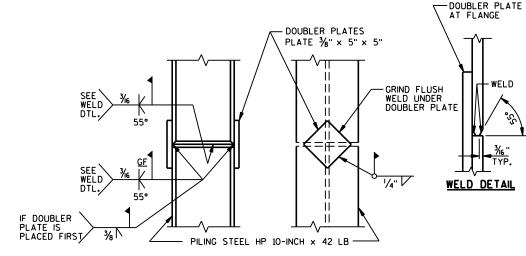
AT THE BACKFACE OF ABUTMENTS ALL EXCAVATED VOLUME WHICH CANNOT BE PLACED BEFORE ABUTMENT CONSTRUCTION AND IS NOT OCCUPIED BY THE NEW STRUCTURE SHALL BE BACKFILLED WITH BACKFILL STRUCTURE TYPE A.

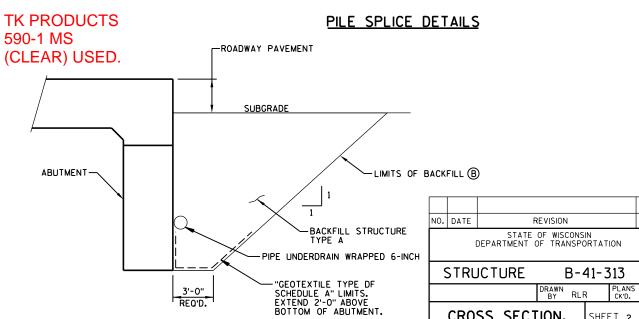
DO NOT PLACE FILL ABOVE 3'-0" FROM THE BOTTOM OF ABUTMENT UNTIL THE SUPERSTRUCTURE IS IN PLACE.

AFTER PLACEMENT OF SUPERSTRUCTURE CONCRETE, FOG THE SLAB AND CONTINUOUSLY WET IT IN ACCORDANCE TO STANDARD SPECIFICATIONS SUBSECTION 502.3.8.2.3(2) FOR CURING STRUCTURES 100 FEET OR GREATER IN LENGTH.

PROTECTIVE SURFACE TREATMENT SHALL BE APPLIED TO THE TOP AND EDGES OF SLAB, TO THE OUTSIDE 1'-O" OF THE UNDERSIDE OF SLAB, TO THE TOPS OF WINGS, AND TO THE EXPOSED FRONT FACES OF WINGS.

ELEVATIONS SHOWN ON THIS PLAN ARE REFERENCED TO USGS NAVD 88 (2012 ADJUSTED). BENCHMARK REFERENCES AT THE PROJECT SITE WERE SET BY THE CONSULTANT USING GPS TECHNOLOGY.





REO'D. STRUCTURE BACKFILL DETAIL

JAS SHEET 2 OF 9

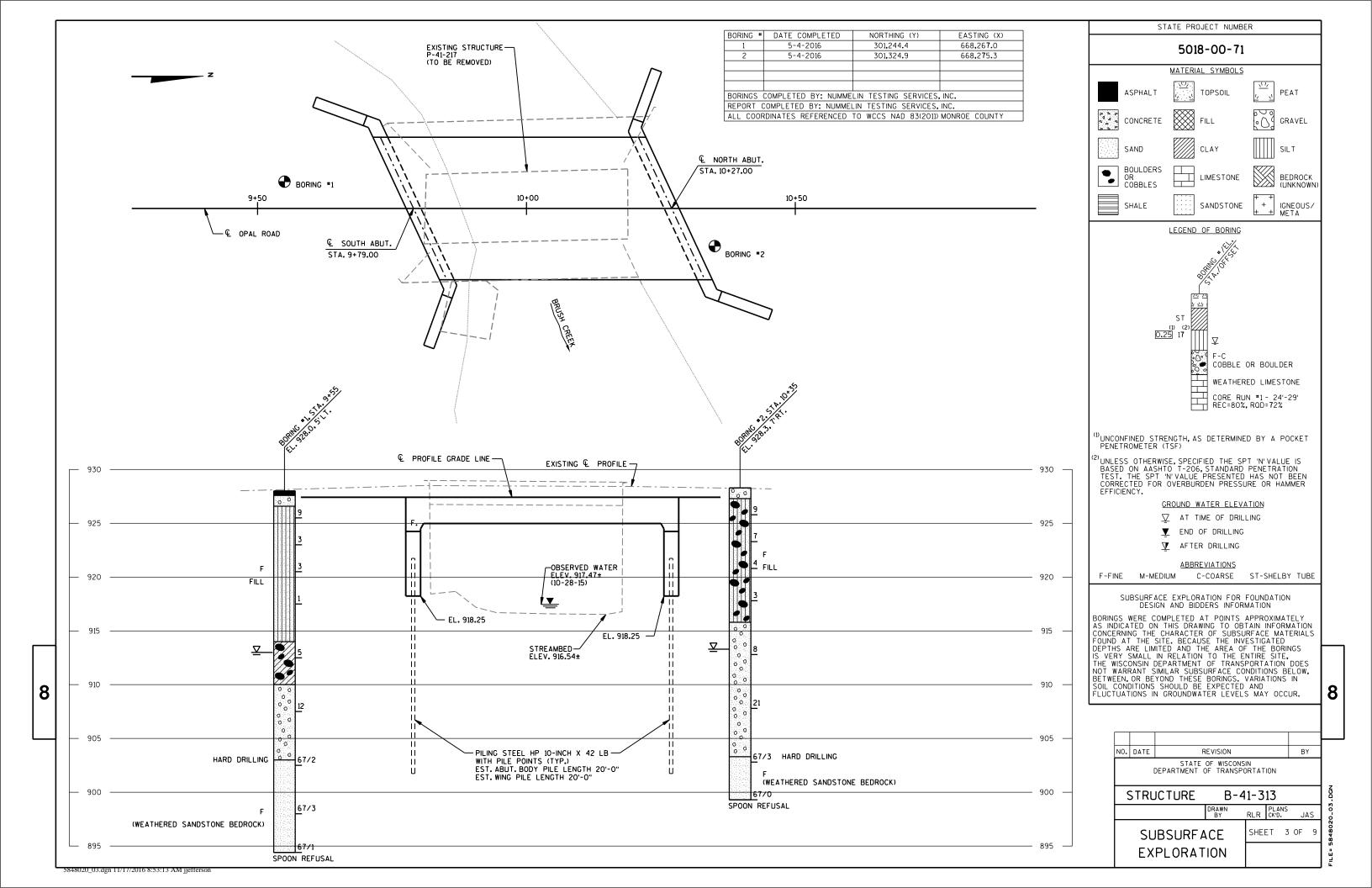
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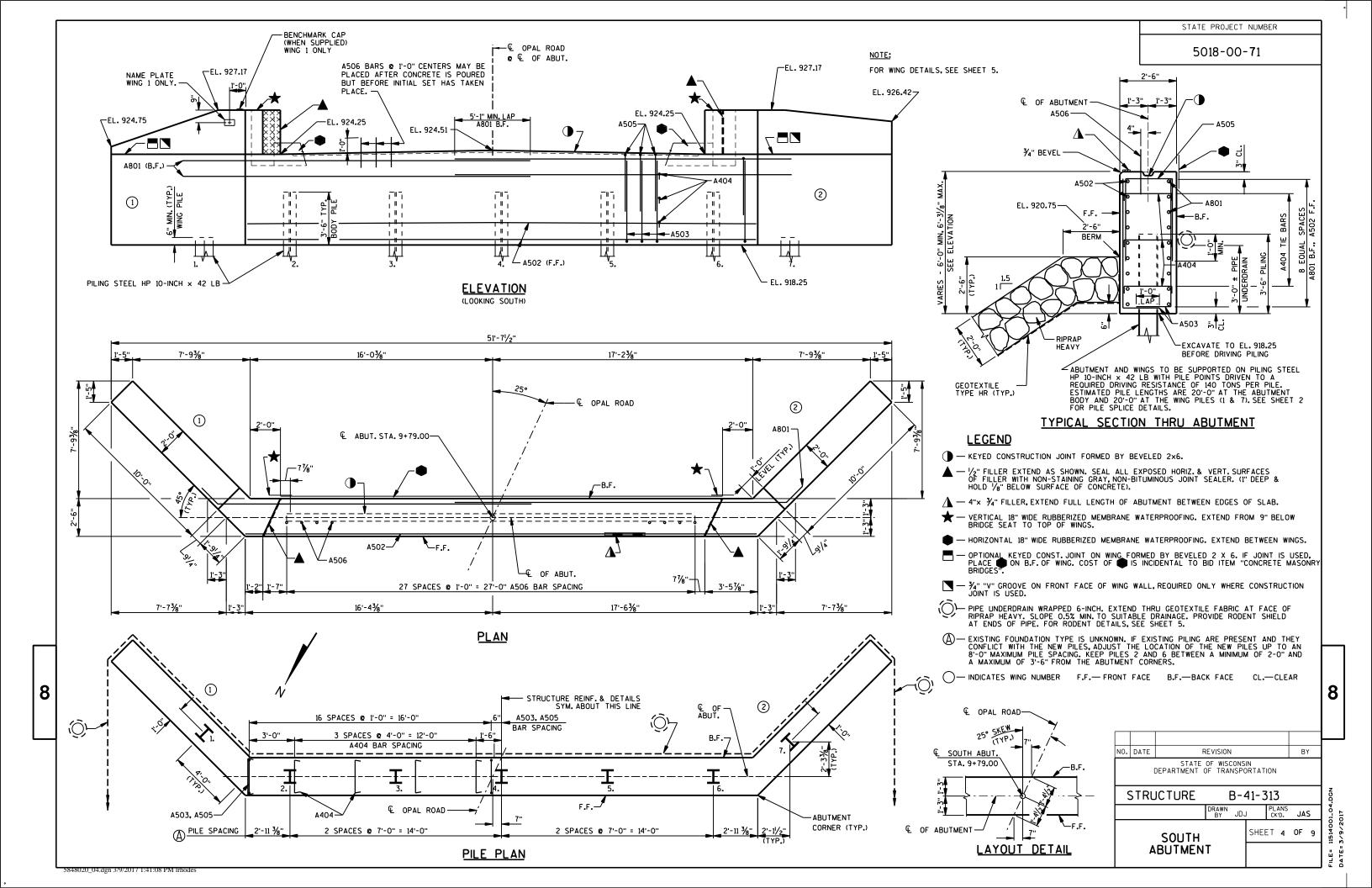
QUANTITIES & NOTES

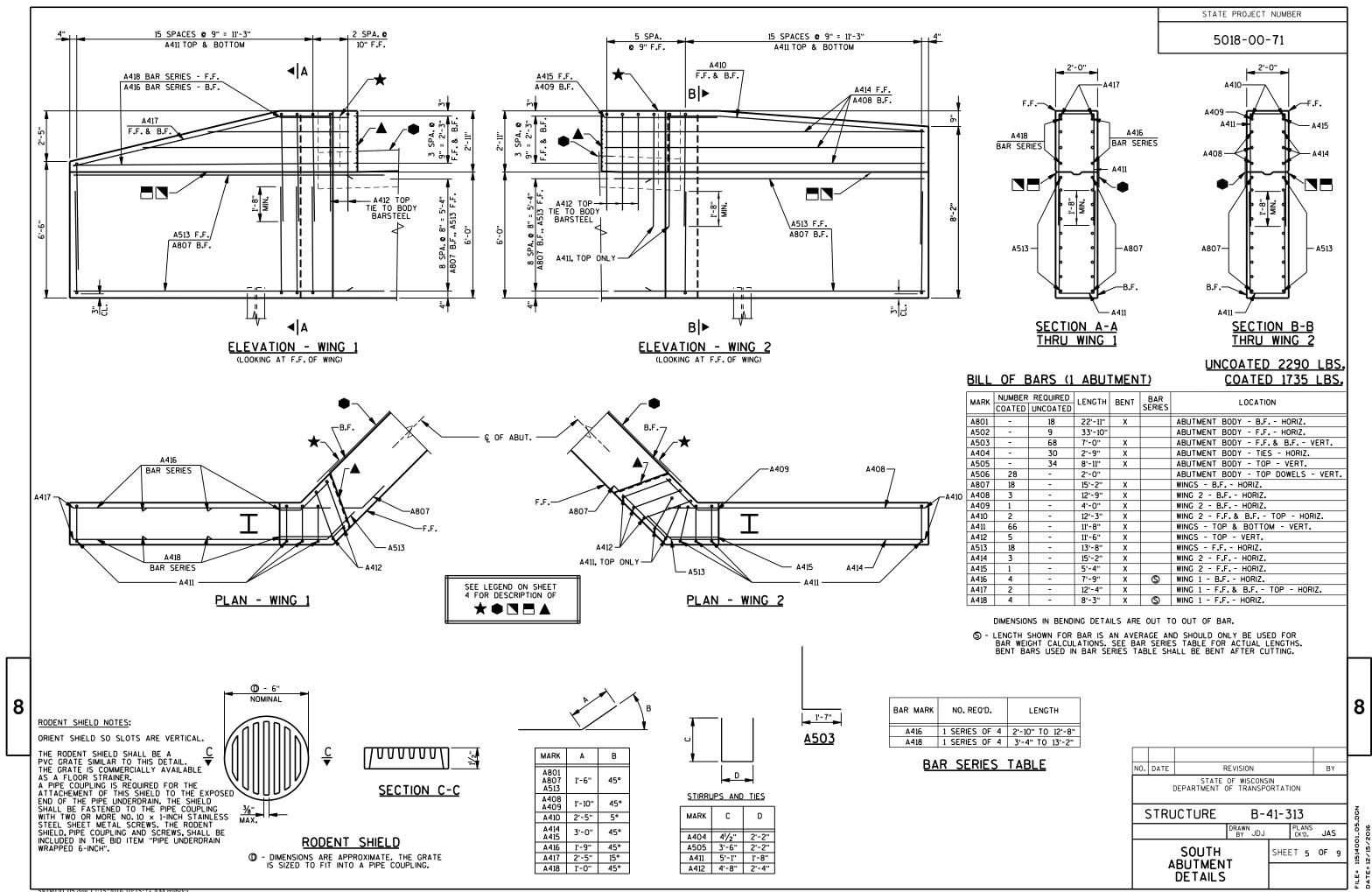
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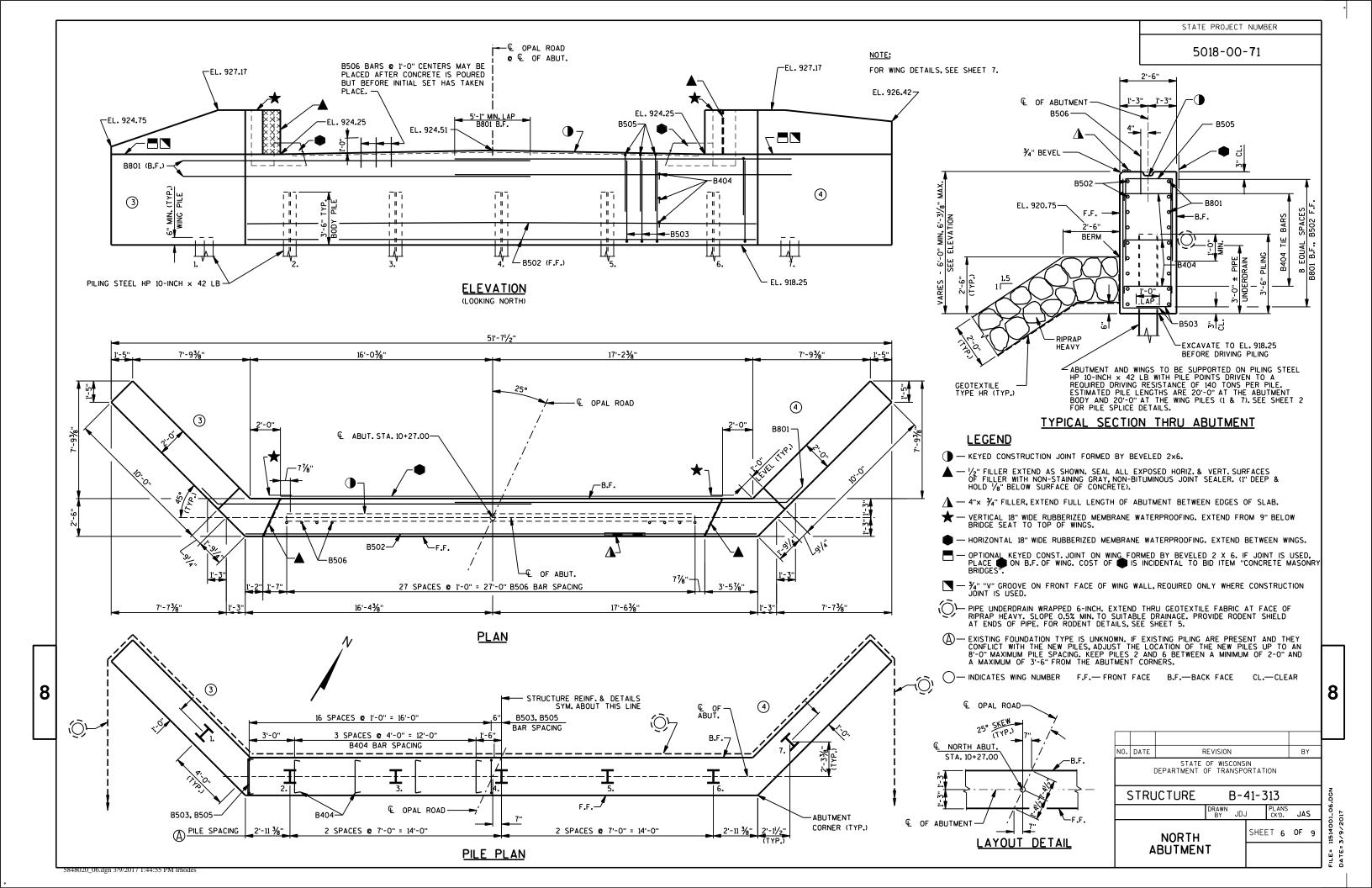
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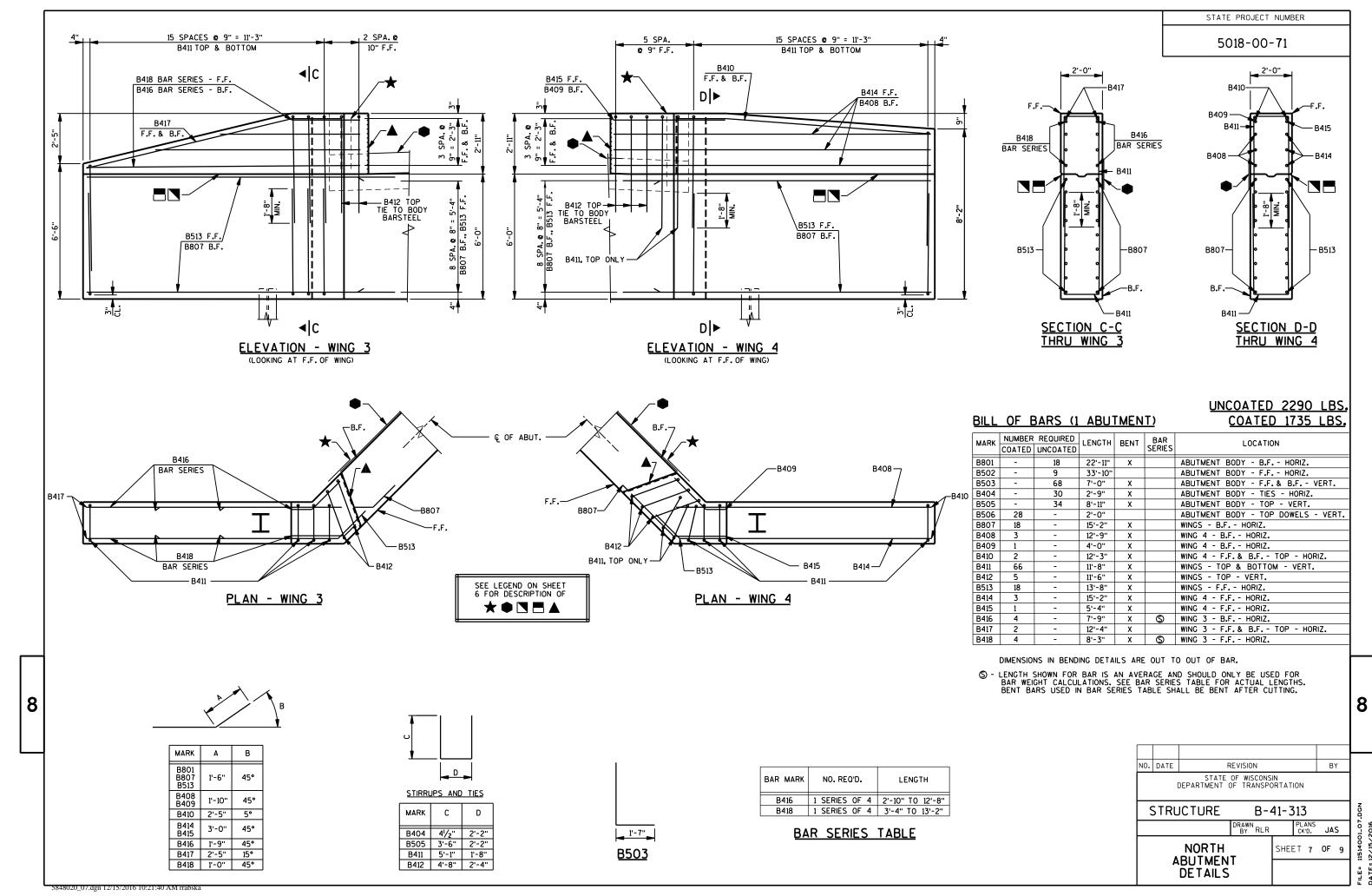
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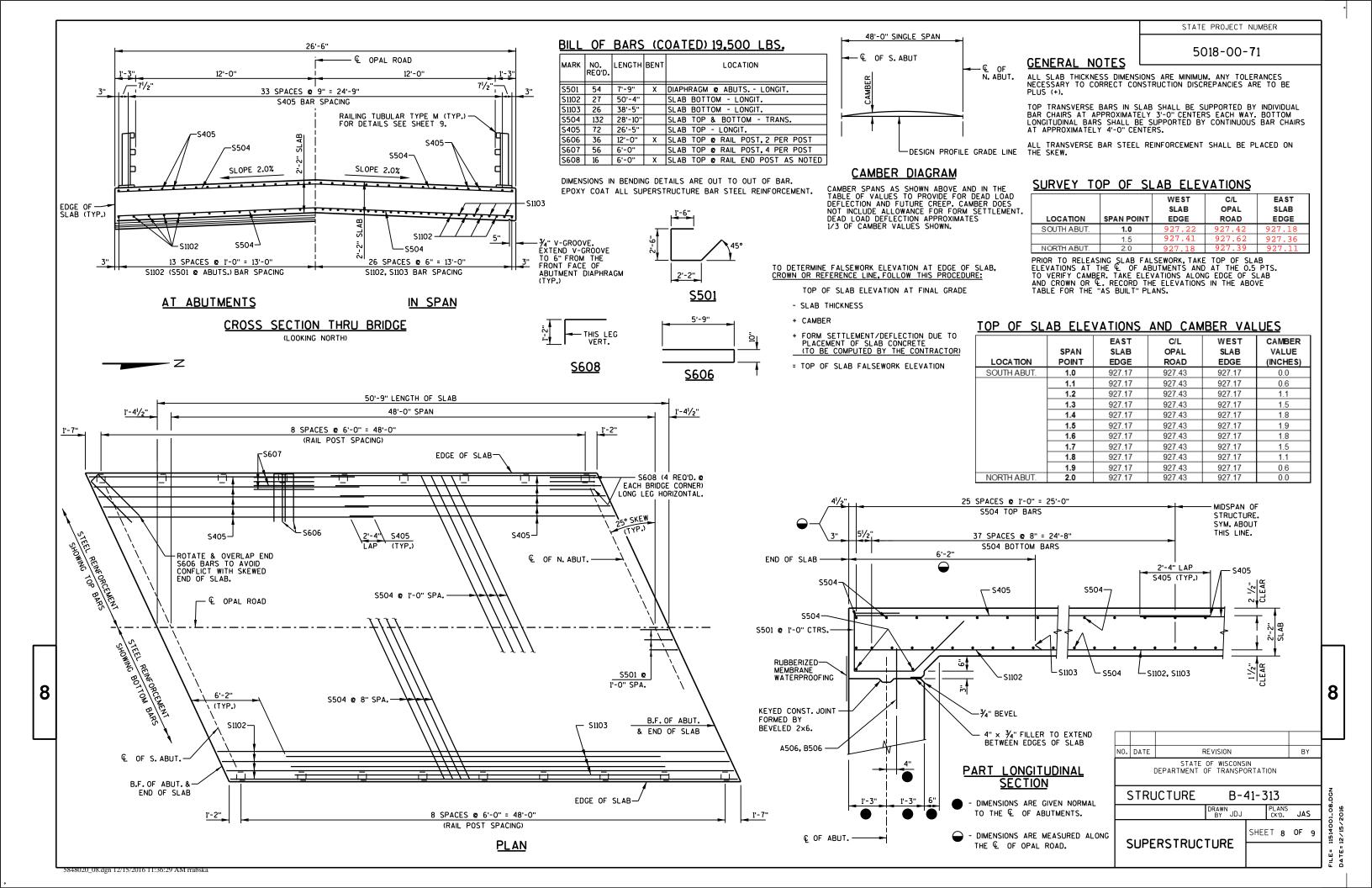


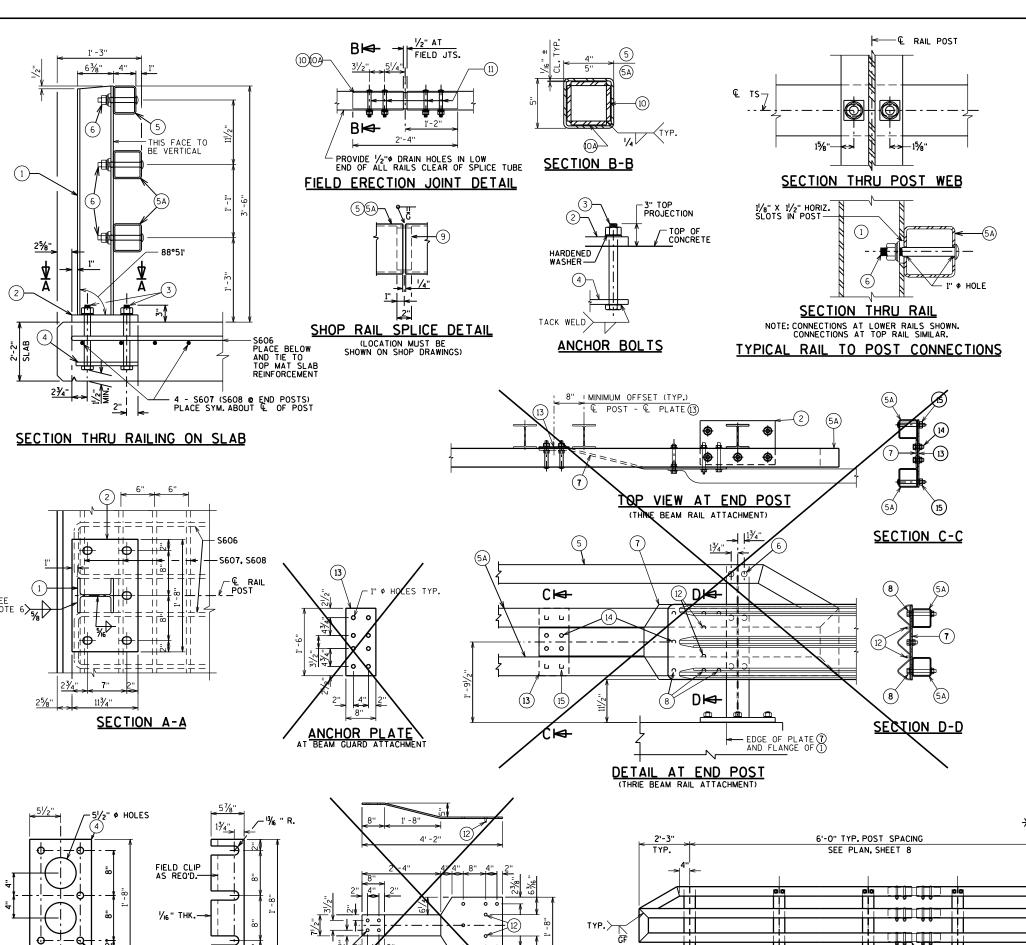












BACK-UP PLATE DETAIL

AT BEAM GUARD ATTACHMENT

STATE PROJECT NUMBER

5018-00-71

- ① W6 x 25 WITH 11/8" X 11/2" HORIZ SLOTS ON EACH SIDE OF POST FOR BOLT NO.6. CUT BOTTOM OF POST TO MATCH CROSS SLOPE OF ROADWAY. PLACE POST VERTICAL. PLACE POSTS NORMAL TO GRADE LINE.
- ② PLATE $1!/4" \times 11^3/4" \times 1^{-8}"$ WITH $1^{1}/_{6}" \times 1^{5}/_{6}"$ SLOTTED HOLES FOR ANCHOR BOLTS NO. 3. WELD TO NO. 1 AS SHOWN. SLOTS PARALLEL TO SHORT SIDE OF PLATE.
- (3) ASTM A449 11/8" DIA. ANCHOR BOLTS WITH NUT AND HARDENED WASHER (ALL GALVANIZED). 5 RED'D. PER POST. THREAD 3" AND PLACE NORMAL TO PLATE NO. 2. CHAMFER TOP OF BOLTS BEFORE THREADING. USE 1'-3" LONG.
- 4 %" x 11" x 1'-8" ANCHOR PLATE (GALVANIZED) WITH 1%" DIA. HOLES FOR ANCHOR BOLTS NO. 3
- (5) TS 5 × 4 × 0.25 STRUCTURAL TUBING. ATTACH TO NO.1 WITH NO.6.
- 5A TS 5 × 5 × 0.25 STRUCTURAL TUBING. ATTACH TO NO.1 WITH NO.6.
- 6 %" DIA. A325 SLOTTED ROUND HEAD BOLT WITH NUT, \%" X 1\%" X 1\%" WASHER, AND LOCK WASHER (2 REO'D. AT EACH RAIL TO POST LOCATION.)
- * (7) 1/2" THK.BACK-UP PLATE WITH 2 7/8" X 1/2" THREADED SHOP WELDED STUDS (NO. 12).
 BOLT TO RAIL AS SHOWN IN DETAIL. REQUIRED AT THRIE BEAM GUARD RAIL ATTACHMENTS ONLY.
 PLACE SYMMETRICALLY ABOUT TUBES NO. 5A.
- \star (8) I" DIA. HOLES IN PLATE NO. 7 & TUBES NO. 5A FOR %" DIA. A325 BOLTS WITH HEX NUTS AND WASHERS. 6 HOLES IN TUBES AND PLATE NO. 7.
- 9 SPLICE SLEEVE FABRICATED FROM 1/4" PLATE. PROVIDE "SLIDING FIT".
- 10 3/8" X 35/8" X 2'-4" PLATE. 2 PER RAIL. USED IN NO. 5 & 5A.
- (O) ¾" x 2½" x 2'-4" PLATE USED IN NO.5, ¾" x 3½" x 2'-4" PLATE USED IN NO.5A. 2 PER RAIL.
- (1) % * A 325 ROUND HEAD BOLT WITH NUT, WASHER, AND LOCK WASHER. USE % " X 1/4" LONGIT. SLOTTED HOLES AT FIELD JOINTS IN PLATE NO. 10A.
- \star (2) %" DIA. X 1 $^{1}\!/_{2}$ " LONG THREADED SHOP WELDED STUDS (2 REO'D).
- \star (3) %" x 8" x 1'-6" anchor plate. Bolt to rail as shown in detail. Reo'd at thrie beam guard rail attachments only. Place sym. about tubes no.5a.
- \bigstar (5) I" ϕ holes in tubes no.54 for %" dia.a325 round head bolt with nut, washer, and lock washer (4 reo'd.). 4 holes in tubes.

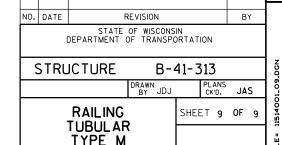
GENERAL NOTES

- BID ITEM SHALL BE "RAILING TUBULAR TYPE M B-41-313" WHICH INCLUDES ALL ITEMS SHOWN.
- RAIL POST AND BASE PLATES SHALL CONFORM TO THE REQUIREMENTS OF ASTM A709 GRADE 50. HOLLOW RAILING STRUCTURAL TUBING SHALL CONFORM TO THE REQUIREMENTS OF ASTM A500 GRADE B OR C WITH A CERTIFIED FY = 50 KSI. ANCHOR PLATES, AND SPLICE TUBE PLATES SHALL CONFORM TO THE REQUIREMENTS OF ASTM A709 GRADE 36.
- 3. THE NUT SECURING THE POST BASE PLATE TO THE CONCRETE SHALL BE TIGHTENED TO A SNUG FIT AND GIVEN AN ADDITIONAL 1/8 TURN.
- 4. RAILS SHALL BE CONTINUOUS OVER A MINIMUM OF THREE (3) POSTS WITHOUT SPLICES WHERE POSSIBLE.
- ENDS OF TUBE SECTIONS SHALL BE SAWED. GRIND SMOOTH EXPOSED EDGES. ALL CUT ENDS SHALL BE TRUE AND SMOOTH.
- WELD IS THE SAME ON BOTH FLANGES. FLANGE WELD DOES NOT REQUIRE MAGNETIC PARTICLE TESTING.
- 7. FILL BOLT SLOT OPENINGS IN POST SHIMS AND PLATE NO. 2 AND CAULK AROUND PERIMETER OF PLATE NO. 2 WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER. STEEL POST SHIMS MAY BE USED UNDER POSTS WHERE REO'D. FOR ALIGNMENT.
- 8. 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.
- 9. ALL MATERIAL SHALL BE GALVANIZED AFTER FABRICATION. PRIOR TO GALVANIZING, ALL STEEL RAILING POSTS & STEEL TUBING SHALL BE GIVEN A NO. 6 BLAST CLEANING BY S.S.P.C. SPECIFICATIONS.
- 10. PAINTING IS NOT REQUIRED

PART ELEVATION OF RAILING

WINGS 2 & 4 1'-7"

- 11. THIS RAILING MEETS NCHRP REPORT 350 EVALUATION CRITERIA FOR TEST LEVEL 4 (TL-4).
- 🛨 12. DO NOT FURNISH ITEMS 7, 8, 12, 13, 14 AND 15. THRIE BEAM RAIL ATTACHMENT IS NOT INCLUDED.



ANCHOR PLATE

ANCHÓR BOLTS

POST SHIM DETAIL