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STATE PROJECT NUMBER

1003-10-84

DESIGN DATA

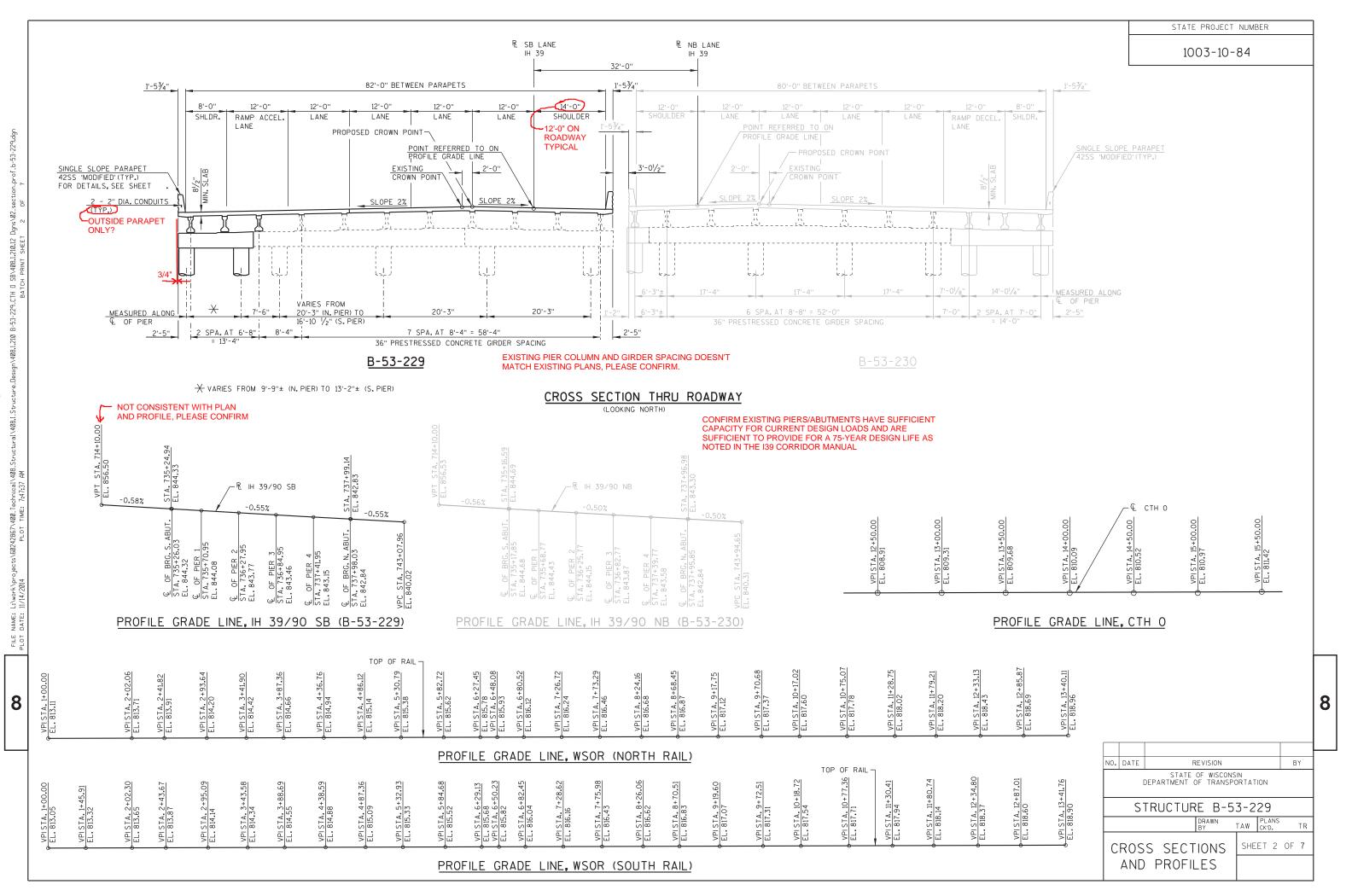
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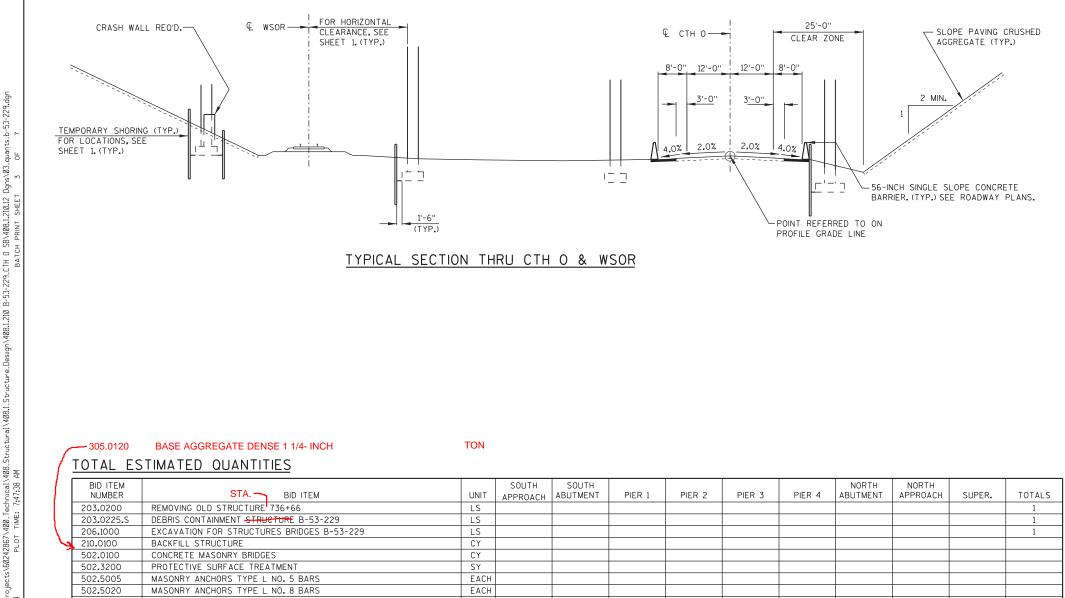
DESIGN RATING: HL-93 INVENTORY RATING FACTOR: X.XX (Wis-SPV) WBM 6.2.2.3.4 OPERATIONAL RATING FACTOR: X.XX WISCONSIN MAX STANDARD PERMIT VEHICLE LOAD XXX KIPS STRUCTURE IS DESIGNED FOR A FUTURE WEARING SURFACE OF 20 PSF. STRUCTURE IS RATED FOR A POLYMER OVERLAY OF 5 PSF. THE POLYMER OVERLAY WILL BE APPLIED TO THE ENTIRE DECK UNDER A FUTURE CONTRACT. ULTIMATE DESIGN STRESSES (HPC?) CONCRETE MASONRY - SUPERSTRUCTURE f'c = 4,000 PSI ALL OTHER -- f'c = 3,500 PSI BAR STEEL REINFORCEMENT, GRADE 60 - fy = 60,000 PSI 36" PRE-STRESSED GIRDER ₩ = 6,000 PSI CONCRETE MASONRY STRANDS 0.5-INCH DIA. ULTIMATE TENSILE STRENGTH ------ f_{DU} = 270,000 PSI FOUNDATION DATA _ 130 PER GEOTECH REPORT ABUTMENTS AND PIERS TO BE SUPPORTED ON PILING CIP 12% X 0.25-INCH AND DRIVEN TO A REQUIRED DRIVING RESISTANCE OF 160 TONS** PER PILE AS DETERMINED BY THE MODIFIED GATES DYNAMIC FORMULA, ESTIMATED 65 FEET LONG AT S. ABUT., 60 FEET LONG AT N. ABUT .. AND 55 FEET LONG AT THE LENGTHS ARE CONSISTENT PIERS. PRE-BORING ESTIMATED TO BE 30 FEET AT EACH 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. CONFIRM ADT'S, TRAFFIC DATA **DIFFERENT THAN** CTH 0 VALUES IN SSR IH 39/90 A.D.T.(2020) = 65.100A.D.T.(2015) = 3.900A.D.T. (2040) = 94,300 A.D.T. (2040) = 6,300 R.D.S. = 70 MPH R.D.S. = 50 MPH LIST OF DRAWINGS 1. GENERAL PLAN 2. CROSS SECTION AND PROFILES 3. GENERAL NOTES AND QUANTITIES 4. SUBSURFACE EXPLORATION 5. SUBSURFACE EXPLORATION 6. CONSTRUCTION STAGING NO. DATE REVISION ΒY AECOM STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION ACCEPTED CHIEF STRUCTURES DESIGN ENGINEER DATE CTDUCTUDE AIRIE

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210.0100	BACKFILL STRUCTURE	CY				
502.0100	CONCRETE MASONRY BRIDGES	CY				
502.3200	PROTECTIVE SURFACE TREATMENT	SY				
502.5005	MASONRY ANCHORS TYPE L NO. 5 BARS	EACH				
502.5020	MASONRY ANCHORS TYPE L NO. 8 BARS	EACH				
503.0136	PRESTRESSED GIRDER TYPE I 36-INCH	LF				
505.0405	BAR STEEL REINFORCEMENT HS BRIDGES	LB				
505.0605	BAR STEEL REINFORCEMENT HS COATED BRIDGES	LB				
506.2605	BEARING PADS ELASTOMERIC NON-LAMINATED	EACH				
506.4000	STEEL DIAPHRAGMS B-53-229	EACH				
509.1500	CONCRETE SURFACE REPAIR	SF				
511.1200	TEMPORARY SHORING B-53-229	SF				
514.0450	FLOOR DRAINS TYPE WF	EACH				
514.2608	DOWNSPOUT 8-INCH	LF				
516.0500	RUBBERIZED MEMBRANE WATERPROOFING	SY				
550.0010	PRE-BORING UNCONSOLIDATED MATERIALS	LF				
550.2124	PILING CIP CONCRETE 12 3/4 X 0.25-INCH	LF				
604.0500	SLOPE PAVING CRUSHED AGGREGATE	SY				
612.0406	PIPE UNDERDRAIN WRAPPED 6-INCH	LF				
614.0150	ANCHOR ASSEMBLIES FOR STEEL PLATE BEAM GUARD	EACH				
652.0125	CONDUIT RIGID METALLIC 2-INCH	LF				
652.0225	CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH	LF				
653.0222	JUNCTION BOXES 18X12X6-INCH	EACH				
SPV.0035	HPC MASONRY STRUCTURES	CY				
SPV.0165	LONGITUDINAL DECK GROOVING	SF				
SPV.0085	BAR STEEL REINFORCEMENT HS STAINLESS BRIDGES	LB				
	NON-BID ITEMS					
	FILLER	SIZE				1/2" & 3/4"

INCLUDE ARCH. SURFACE TREATMENT AND STAINING?

PER WBM STD. 38.01, SPV REQUIRED FOR TEMPORARY SHORING ADJACENT TO RAILROAD

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GENERAL NOTES

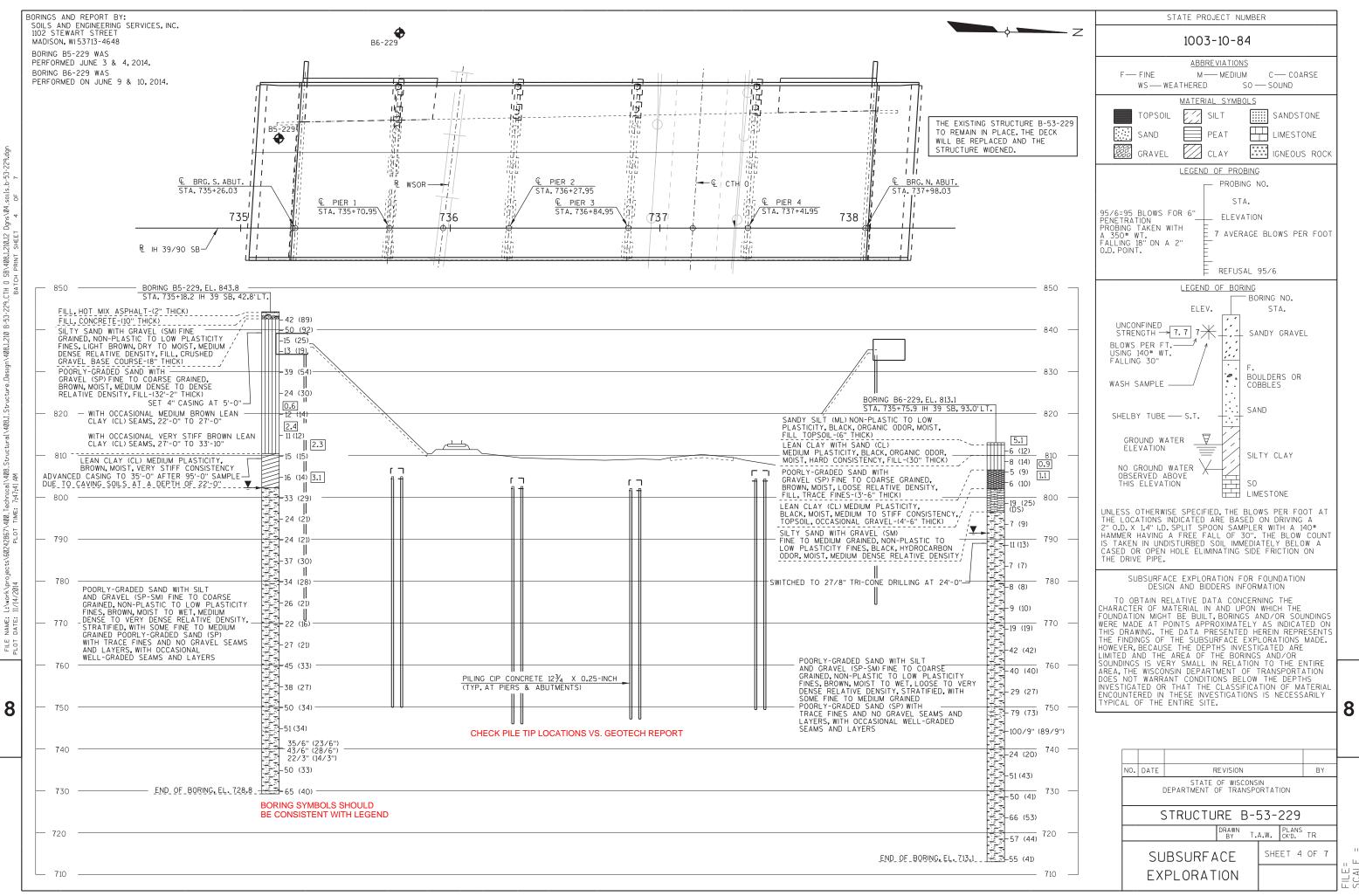
DRAWINGS SHALL NOT BE SCALED.

- BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2" CLEAR UNLESS SHOWN OR NOTED OTHERWISE.
- THE SLOPE OF THE FILL IN FRONT OF THE ABUTMENTS SHALL BE COVERED WITH SLOPE PAVING CRUSHED AGGREGATE TO THE EXTENT SHOWN ON SHEET 1, THE ABUTMENT DETAILS AND SLOPE PAVING DETAIL SHEET.
- PROTECTIVE SURFACE TREATMENT TO BE APPLIED TO THE ENTIRE TOP OF DECK & APPROACH AND THE FRONT FACE AND THE TOP OF THE PARAPET. SLAB
- THE FIRST DIGIT OF A THREE DIGIT BAR MARK AND THE FIRST TWO DIGITS OF A FOUR DIGIT BAR MARK SIGNIFIES THE BAR SIZE. CONFIRM
- THE EXISTING STRUCTURE (B-53-229) IS A 5 SPAN PRESTRESSED CONCRETE GIRDER BRIDGE, 275.8 LONG × AVE. 693 WIDE. THE SUBSTRUCTURE AND SUPER-STRUCTURE SHALL BE WIDENED BY ADDING 3 GIRDER LINES TO THE OUTSIDE
- ALL STATIONS AND ELEVATIONS ARE IN FEET.
- OMIT PER WBM 6.3.2.1.2 DIMENSIONS SHOWN ARE BASED ON THE ORIGINAL PLANS, THEREFORE, PRIOR TO THERE ACCEPTANCE THE CONTRACTOR SHALL FIELD VERIFY.
- ALL CONCRETE REMOVAL SHALL BE DEFINED BY A 1" DEEP SAW CUT.
- CLEAN, STRAIGHTEN, AND EXTEND EXISTING BAR STEEL REINFORCEMENT 24 BAR DIAMETERS INTO NEW CONSTRUCTION WHERE APPLICABLE.
- ROUGHEN SURFACE OF CONCRETE 1/4" MIN. DEEP AT ALL AREAS OF NEW TO EXISTING CONCRETE CONTACT AT ABUTMENTS AND PIERS.
- THE EXISTING ABUTMENTS AND PIERS TO REMAIN IN PLACE AS SHOWN AND INCORPORATED INTO NEW CONSTRUCTION.
- THE PROPOSED GRADE SEPARATION PROJECT SHALL NOT INCREASE THE QUANTITY AND/OR CHARACTERISTICS OF THE FLOW IN THE RAILROAD'S EXISTING DITCHES AND/OR DRAINAGE STRUCTURES.
- AT THE BACKFACE OF ABUTMENTS ALL VOLUME WHICH CANNOT BE PLACED BEFORE ABUTMENT CONSTRUCTION AND IS NOT OCCUPIED BY THE NEW STRUCTURE SHALL BE BACKFILLED WITH STRUCTURE BACKFILL.
- THE EXISTING GROUNDLINE SHALL BE THE UPPER LIMITS OF EXCAVATION AT THE
- ELASTOMERIC BEARING PADS NEED NOT BE INDIVIDUALLY MOLDED PROVIDED THE CUT EDGES ARE SMOOTH AND TRUE.
- THE HAUNCH CONCRETE QUANTITY IS BASED ON THE AVERAGE HAUNCH SHOWN ON THE PRESTRESSED GIRDER DETAILS SHEET.

CLARIFY WHICH COMPONENTS TO BE HPC.

ADD FOLLOWING NOTES FROM 6.3.2.1.2: -VARIATIONS TO NEW GRADE LINE. -THE CONTRACTOR SHALL SUPPLY A NEW NAME PLATE

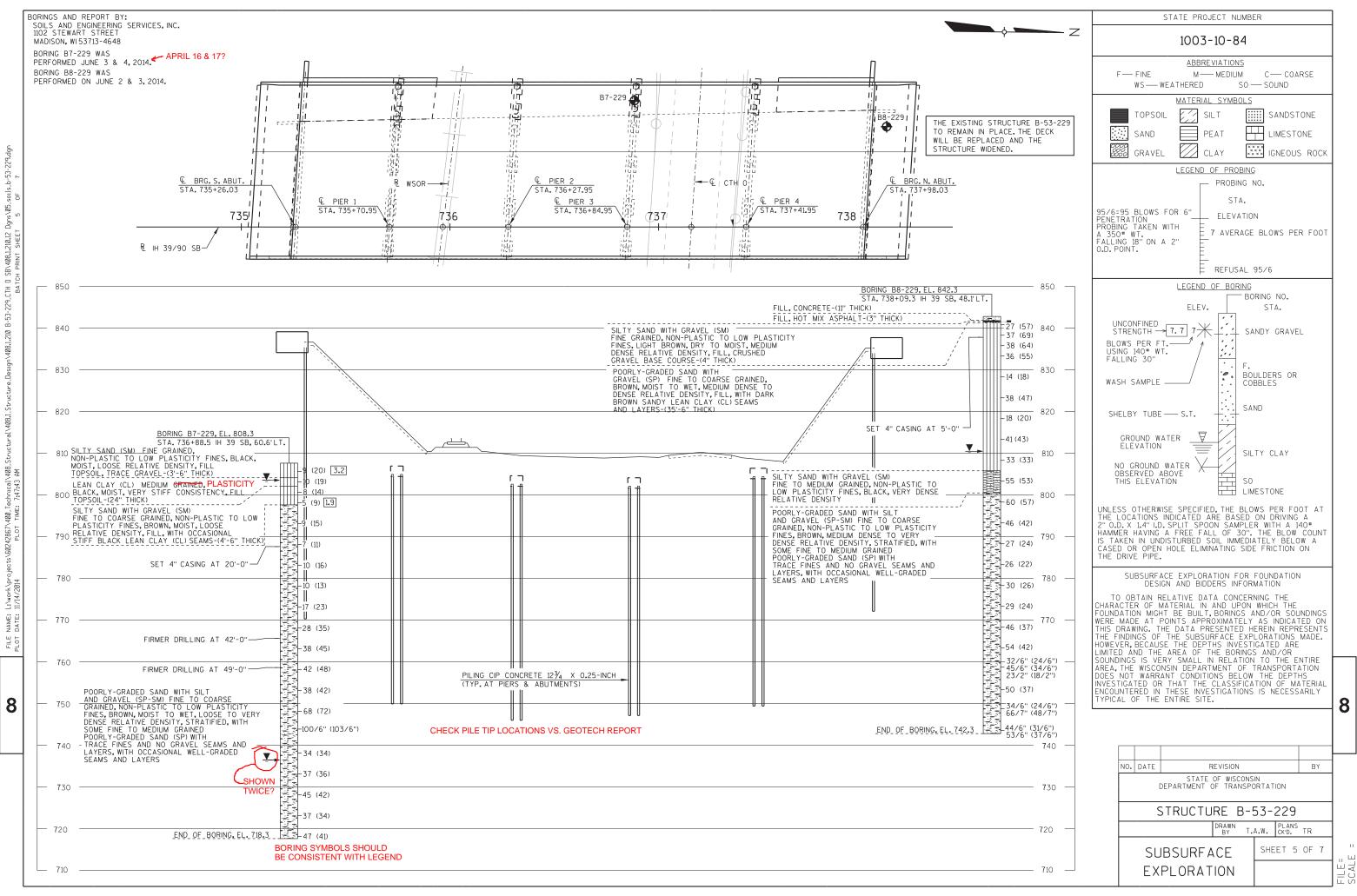
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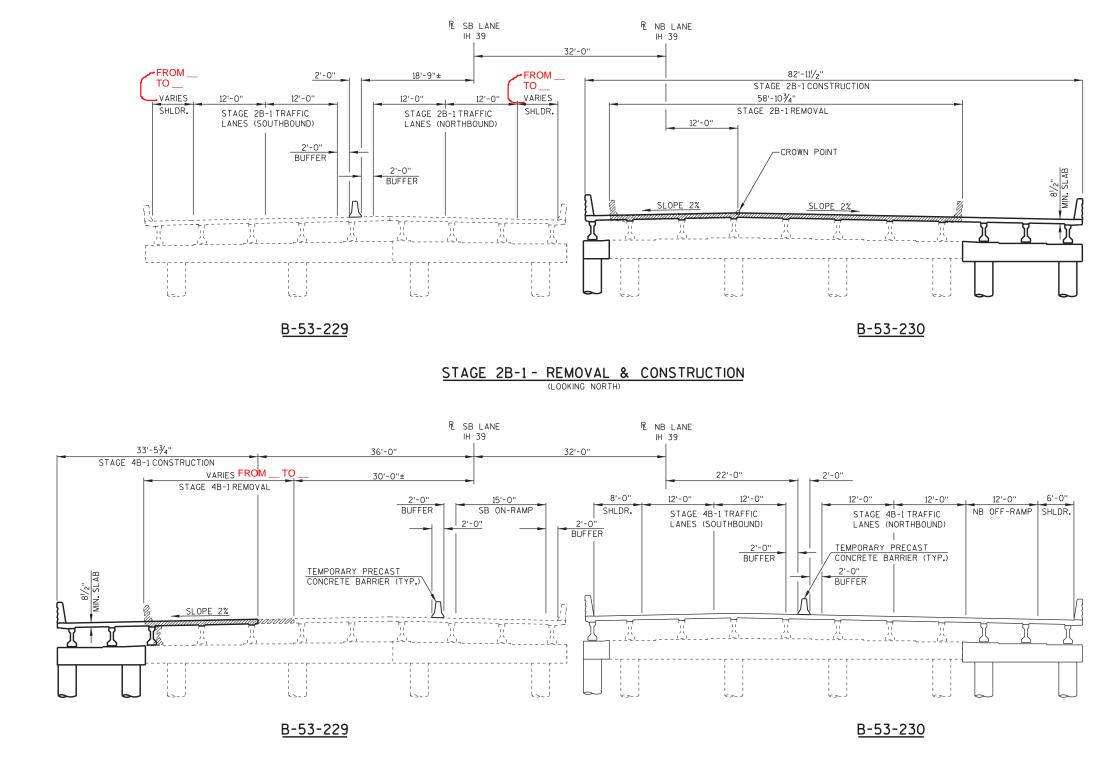
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STAGE 4B-1 - REMOVAL & CONSTRUCTION (LOOKING NORTH)

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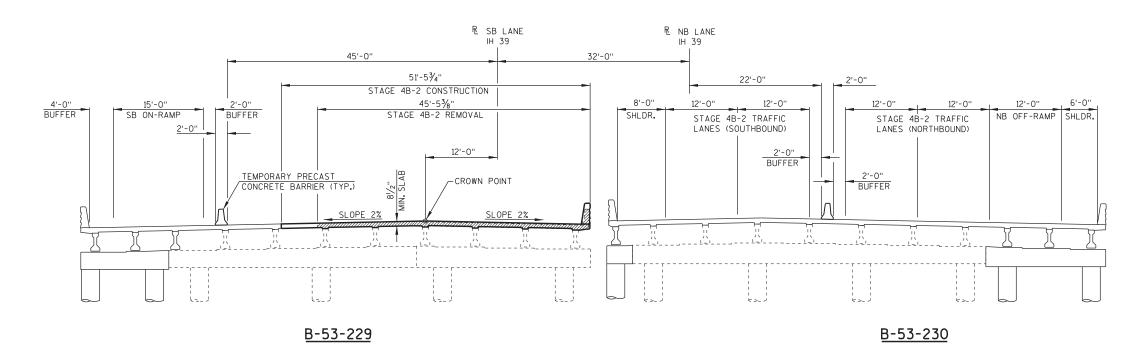
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STAGE 4B-2 - REMOVAL & CONSTRUCTION

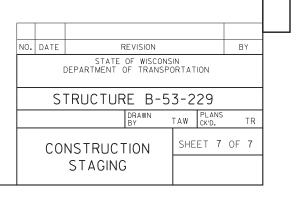
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