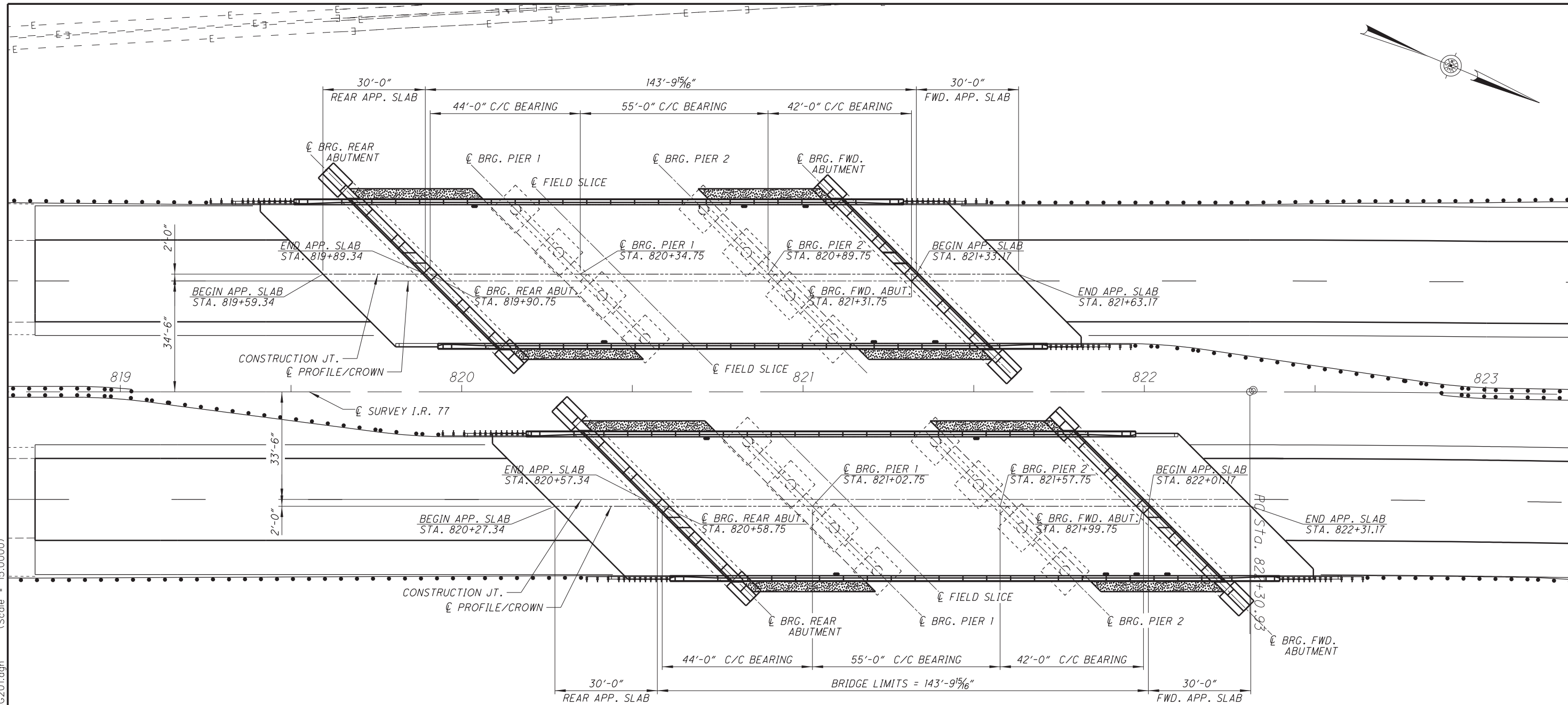
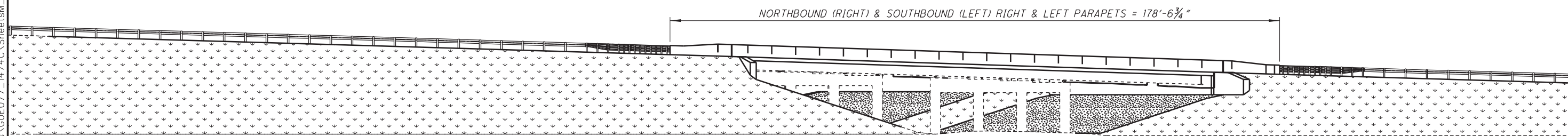


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PLAN VIEW



ELEVATION VIEW

EXISTING STRUCTURE
TYPE: CONTINUOUS STEEL BEAM WITH REINFORCED CONCRETE DECK AND SUBSTRUCTURE
SPANS: 44'-0", 55'-0", 42'-0" C/C BEARINGS
ROADWAY: 40'-0" TOE/TOE PARAPETS
LOADING: CF-2000 AASHO ALT.
SKEW: 45°00'00" R.F.
APPROACH SLABS: 25'-0" AS-I-54
ALIGNMENT: TANGENT
CROWN: VARIES
STRUCTURAL FILE NUMBER: 3003248 (LT.) 3003272 (RT.)
DATE BUILT: 1968
DISPOSITION: BRIDGE REPAIR

REHABILITATED STRUCTURE
TYPE: CONTINUOUS STEEL BEAM WITH REINFORCED CONCRETE DECK AND SUBSTRUCTURE
SPANS: 44'-0", 55'-0", 42'-0" C/C BEARINGS
ROADWAY: 40'-8" TOE/TOE PARAPETS
LOADING: HS-20 WITH ALT. MILITARY LOADING
SKEW: 45°00'00" R.F.
APPROACH SLABS: 30'-0" LONG (AS-I-15)
ALIGNMENT: TANGENT
CROWN: VARIES
STRUCTURAL FILE NUMBER: 3003248 (LT.) 3003272 (RT.)
COORDINATES: LATITUDE: 40°05'55" LONGITUDE: -81°33'40"

DESIGN AGENCY	OHIO DEPARTMENT OF TRANSPORTATION, DISTRICT 5
DATE	09/13/16
REVIEWED	JDR
STRUCTURE FILE NUMBER	3003248/3003272
DRAWN	CPS
REVIS	---
DESIGNED	CPS
CHECKED	TAG
GENERAL PLAN AND ELEVATION	
BRIDGE NO. GUE-77-1474 (LEFT & RIGHT BRIDGES) OVER C.R. 35	
GUE-77-VAR	PID No. 21631
1/44	49
	129

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STANDARD DRAWINGS AND SUPPLEMENTAL SPECIFICATIONS:
REFER TO THE FOLLOWING STANDARD BRIDGE DRAWINGS:
AS-1-15 DATED: 07-17-15
AS-2-15 DATED: 07-17-15
GSD-1-96 DATED: 07-19-02
PCB-91 DATED: 01-18-13
SBR-1-13 DATED: 01-17-14
SCID-1-96 DATED: 07-18-14
SCID-2-14 DATED: 07-18-14

AND THE FOLLOWING SUPPLEMENTAL SPECIFICATIONS:
800 DATED: 10-21-16
832 DATED: 01-17-14

REFERENCE
EXISTING BRIDGE PLANS MAY BE INSPECTED AND ARE PROVIDED WITH THIS PROJECT'S BIDDING DOCUMENTS.

DESIGN SPECIFICATIONS
THIS STRUCTURE CONFORMS TO THE "STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES" ADOPTED BY THE AMERICAN ASSOCIATED OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS, 17TH EDITION (2002), AND THE ODOT BRIDGE DESIGN MANUAL, 2004.

DESIGN SPECIFICATIONS
HS-20 CASE II AND THE ALTERNATE MILITARY LOADING, WITH FUTURE WEARING SURFACE (FWS) OF 60 LBS/SQ. FT.

DESIGN DATA
CONCRETE CLASS QC2 - COMPRESSIVE STRENGTH 4.5 KSI (SUPERSTRUCTURE)

CONCRETE CLASS QC1 - COMPRESSIVE STRENGTH 4.0 KSI (SUBSTRUCTURE)

STRUCTURAL STEEL - ASTM A709 GRADE 50
- MINIMUM YIELD STRENGTH 50 KSI

REINFORCING STEEL - ASTM A615 OR A996 GRADE 60
- MINIMUM YIELD STRENGTH 60 KSI

EXISTING STRUCTURE VERIFICATION
DETAILS AND DIMENSIONS SHOWN ON THESE PLANS PERTAINING TO THE EXISTING STRUCTURE HAVE BEEN OBTAINED FROM PLANS OF THE EXISTING STRUCTURE AND FROM FIELD OBSERVATIONS AND MEASUREMENTS. CONSEQUENTLY, THEY ARE INDICATIVE OF THE EXISTING STRUCTURE AND THE PROPOSED WORK BUT THEY SHALL BE CONSIDERED TENTATIVE AND APPROXIMATE. THE CONTRACTOR IS REFERRED TO CMS SECTIONS 102.05, 105.02, AND 513.04.

BASE CONTRACT BID PRICES UPON A RECOGNITION OF THE UNCERTAINTIES DESCRIBED ABOVE AND UPON A PREBID EXAMINATION OF THE EXISTING STRUCTURE. HOWEVER, THE DEPARTMENT WILL PAY FOR ALL PROJECT WORK BASED UPON ACTUAL DETAILS AND DIMENSIONS THAT HAVE BEEN VERIFIED IN THE FIELD.

DECK PROTECTION METHOD
EPOXY COATED REINFORCING STEEL
2 1/2" CONCRETE COVER
SEALING OF CONCRETE SURFACES
PARAPETS AND SCUPPERS

MONOLITHIC WEARING SURFACE
MONOLITHIC WEARING SURFACE IS ASSUMED, FOR DESIGN PURPOSES, TO BE 1 INCH THICK.

ITEM 202 - PORTIONS OF STRUCTURE REMOVED, AS PER PLAN, SUPERSTRUCTURE (CONCRETE)
DESCRIPTION: THIS WORK CONSISTS OF THE REMOVAL OF THE CONCRETE DECK, PARAPETS FROM STEEL SUPPORTING SYSTEMS (GIRDERS, CROSSFRAMES, ETC.), EXISTING SCUPPERS WITH ATTACHMENTS, EXISTING EXPANSION JOINTS, AND EXISTING STEEL BULB ANGLE GUTTERS. THE PROVISIONS OF ITEM 202 APPLY EXCEPT AS SPECIFIED BY THE FOLLOWING NOTES. PERFORM WORK CAREFULLY DURING REMOVALS TO PROTECT PORTIONS OF SUCH SYSTEMS THAT ARE TO BE SALVAGED AND INCORPORATED INTO THE PROPOSED STRUCTURE. THE USE OF EXPLOSIVES, HEADACHE BALLS AND/OR HOE RAM TYPE EQUIPMENT IS PROHIBITED. SUBMIT CONSTRUCTION PLANS ACCORDING TO C&MS 501.05.

PROTECTION OF TRAFFIC: PRIOR TO DEMOLITION OF ANY PORTIONS OF THE EXISTING SUPERSTRUCTURE, THE CONTRACTOR SHALL SUBMIT PLANS FOR THE PROTECTIONS OF TRAFFIC (VEHICULAR, PEDESTRIAN, BOAT, ETC.) AS PER C&MS 2016 501.05.B.2.

PROTECTION OF STEEL SUPPORT SYSTEMS: BEFORE DECK AND SLAB CUTTING IS PERMITTED, DRAW THE OUTLINE OF PRIMARY STEEL MEMBERS IN CONTACT WITH THE BOTTOM OF THE DECK ON THE SURFACE OF DECK. DRILL SMALL DIAMETER PILOT HOLES 2 INCHES OUTSIDE THESE LINES TO CONFIRM THE LOCATION OF THE FLANGE EDGES. DECK CUTS OVER OR WITHIN 2 INCHES OF FLANGE EDGES SHALL NOT EXTEND LOWER THAN THE BOTTOM LAYER OF DECK SLAB REINFORCING STEEL. CUTS MADE OUTSIDE 2 INCHES OF FLANGE EDGES MAY EXTEND THE FULL DEPTH OF THE DECK. PERFORM WORK CAREFULLY DURING CUTTING OF THE DECK SLAB TO AVOID DAMAGING STEEL MEMBERS THAT ARE TO BE INCORPORATED INTO THE PROPOSED STRUCTURE. REPLACE OR REPAIR STEEL MEMBERS DAMAGED BY THE DECK SLAB CUTTING OPERATIONS AT NO ADDITIONAL COST TO THE PROJECT. AT LEAST 7 DAYS BEFORE PERFORMING REPAIR WORK, SUBMIT A PROPOSED REPAIR PLAN, DEVELOPED BY AN OHIO REGISTERED PROFESSIONAL ENGINEER TO THE DIRECTOR. OBTAIN THE DIRECTOR'S APPROVAL BEFORE PERFORMING REPAIR.

REMOVAL METHODS: THE CONTRACTOR MAY REMOVE CONCRETE BY CUTTING AND BY MEANS OF HAND OPERATED PNEUMATIC HAMMERS EMPLOYING POINTED OR BLUNTED CHISEL TYPE TOOLS. FOR REMOVALS OVER STRUCTURAL MEMBERS (STEEL GIRDERS), THE CONTRACTOR MAY USE A HAMMER HEAVIER THAN 35 POUNDS, BUT NOT EXCEED 90 POUNDS UNLESS APPROVED BY THE ENGINEER. REMOVAL METHODS OVER STRUCTURAL MEMBERS SHALL ENSURE ADEQUATE DEPTH CONTROL AND PREVENT NICKING OR GOUGING THE PRIMARY STRUCTURAL MEMBERS.

DUE TO THE POSSIBLE PRESENCE OF ATTACHMENTS (E.G., FINISHING MACHINE AND FORM SUPPORTS, ETC.) TO EXISTING STRUCTURAL MEMBERS, PERFORM WORK CAREFULLY DURING DECK REMOVAL TO AVOID DAMAGING STRUCTURAL MEMBERS THAT ARE TO REMAIN. REPLACE OR REPAIR STRUCTURAL MEMBERS DAMAGED BY THE REMOVAL OPERATIONS AT NO ADDITIONAL COST TO THE PROJECT. AT LEAST 7 DAYS BEFORE PERFORMING REPAIR WORK, SUBMIT A PROPOSED REPAIR PLAN, DEVELOPED BY AN OHIO REGISTERED PROFESSIONAL ENGINEER TO THE DIRECTOR. OBTAIN THE DIRECTOR'S APPROVAL BEFORE PERFORMING REPAIR.

ITEM 202 - PORTIONS OF STRUCTURE REMOVED, AS PER PLAN, SUPERSTRUCTURE (CONCRETE) (CONTINUED)
WHEN REMOVING THE EXPANSION JOINTS, END CROSSFRAMES, AND OTHER APPURTENANCES FROM STEEL SUPPORTING SYSTEMS (BEAMS, CROSSFRAMES, ETC.) THE ITEM ALONG WITH ITS SUPPORTS SHALL BE COMPLETELY REMOVED. THE PROVISIONS OF ITEM 202 APPLY EXCEPT AS SPECIFIED BY THE FOLLOWING NOTES. PERFORM WORK CAREFULLY DURING REMOVALS TO PROTECT PORTIONS OF SUCH SYSTEMS THAT ARE TO BE SALVAGED AND INCORPORATED INTO THE PROPOSED STRUCTURE. THE USE OF EXPLOSIVES, HEADACHE BALLS AND/OR HOE RAM TYPE EQUIPMENT IS PROHIBITED. SUBMIT CONSTRUCTION PLANS ACCORDING TO C&MS 501.05.

PERFORM WORK CAREFULLY DURING CUTTING OF THE WELDED ATTACHMENTS TO AVOID DAMAGING STEEL MEMBERS THAT ARE TO BE INCORPORATED INTO THE PROPOSED STRUCTURES. REPLACE OR REPAIR STEEL MEMBERS DAMAGE BY THE CUTTING OPERATIONS AT NO ADDITIONAL COST TO THE PROJECT. AT LEAST 7 DAYS BEFORE PERFORMING REPAIR WORK, SUBMIT A PROPOSED REPAIR PLAN, DEVELOPED BY AN OHIO REGISTERED PROFESSIONAL ENGINEER TO THE DIRECTOR. OBTAIN THE DIRECTOR'S APPROVAL BEFORE PERFORMING REPAIR.

EXISTING WELDED ATTACHMENTS: REMOVE EXISTING WELDED ATTACHMENTS (E.G., FINISHING MACHINE, UTILITY ATTACHMENTS, AND FORM SUPPORTS) LOCATED IN THE WEB AND/OR FLANGES OF EXISTING STEEL MEMBERS. ANY GRINDING SHALL BE DONE PARALLEL TO THE SURFACE THAT THE ATTACHMENT IS LOCATED ON. CARE SHALL BE TAKEN WHEN GRINDING AS NOT TO DAMAGE THE STEEL MEMBER AND ATTACHMENTS SHALL BE GROUND DOWN UNTIL THE STEEL MEMBER IS SMOOTH.

MEASUREMENT & PAYMENT: THE DEPARTMENT WILL MEASURE THE QUANTITY OF CONCRETE REMOVALS ON A CUBIC YARD BASIS. THE DEPARTMENT WILL PAY FOR THE ACCEPTED QUANTITIES OF REMOVALS AT THE CONTRACT PRICE FROM ITEM 202, PORTIONS OF STRUCTURE REMOVED, AS PER PLAN, SUPERSTRUCTURE (CONCRETE). PAYMENT FOR THE EXISTING WELDED ATTACHEMENTS SHALL BE INCLUDED WITH THEIR RESPECTIVE PAY ITEMS: ITEM 202 REMOVAL MISC.: EXISTING END CROSSFRAMES AND INTERMEDIATE CROSSFRAMES

PORTIONS OF STRUCTURE REMOVED, AS PER PLAN, SUBSTRUCTURE
THERE SHALL BE NO SAWCUTS BELOW THE TOP OF EXISTING FOOTER ELEVATIONS AT ANY LOCATION EXCEPT AS DETAILED IN THE PLAN. ALL CONCRETE REMOVED FROM THE SAWCUT DOWN TO THE BEAM SEAT SHALL BE REMOVED BY MEANS OF APPROVED PNEUMATIC HAMMERS EMPLOYING POINTED AND BLUNT CHISEL TOOLS. HYDRAULIC HOE-RAM TYPE HAMMERS WILL NOT BE PERMITTED. THE WEIGHT OF THE HAMMER SHALL NOT BE MORE THAN 35 POUNDS FOR REMOVAL WITHIN 18 INCHES OF PORTIONS TO BE PRESERVED. OUTSIDE THE 18 INCH LIMIT, THE CONTRACTOR MAY USE HAMMERS NOT EXCEEDING 90 POUNDS UPON THE APPROVAL OF THE ENGINEER. DO NOT PLACE PNEUMATIC HAMMERS IN DIRECT CONTACT WITH REINFORCING STEEL THAT IS TO BE RETAINED IN THE REBUILT STRUCTURE. AT ALL SAWCUTS/REMOVAL LIMITS, SHOWN ON THE ABUTMENTS, COAT THE EXISTING FLUSH TRIMMED RE-STEEL SECTIONS AS PER C&MS 509.09 AS IF THE ORIGINAL COATING IS THE SAME AS C&MS ITEM 509 - EPOXY COATED REINFORCING.

INSPECTION OF EXISTING STRUCTURAL STEEL
THE ENGINEER WILL VISUALLY INSPECT ALL EXISTING BUTT-WELDED SPLICES AND/OR TOP FLANGE COVER PLATE FILLET WELDS TO ENSURE THE WELDS, PLATES AND GIRDERS ARE FREE OF DEFECTS AND CRACKS. IF NECESSARY, REMOVE ALL DECK SLAB HAUNCH FORMS IMMEDIATELY ADJACENT TO SUCH WELDS THAT MAY INTERFERE WITH THE ENGINEERS'S INSPECTION. THE INSPECTIONS WILL NOT TAKE PLACE UNTIL THE TOP FLANGES ARE CLEANED ACCORDING TO C&MS 511.07, BUT WILL BE DONE BEFORE THE DECK SLAB REINFORCEMENT IS INSTALLED. THE DEPARTMENT WILL PAY FOR THE COST ASSOCIATED WITH THIS INSPECTION WITH ITEM 511 - CLASS QC2 CONCRETE WITH QC/OA, SUPERSTRUCTURE, AS PER PLAN. THE ENGINEER WILL REPORT ALL CRACKS FOUND TO THE OFFICE OF CONSTRUCTION ADMINISTRATION, BRIDGE CONSTRUCTION SPECIALIST, ALONG WITH SPECIFIC INFORMATION ON LOCATION OF THE CRACKS, LENGTH AND DEPTH SO AN EVALUATION AND REPAIR OR REPLACEMENT RECOMMENDATION CAN BE MADE.

CUT LINE CONSTRUCTION JOINT PREPARATION
FOR ABUTMENT BACKWALL REMOVALS SAW CUT BOUNDARIES OF PROPOSED CONCRETE REMOVALS 1 INCH DEEP. REMOVE CONCRETE TO A ROUGH SURFACE. LEAVE THE EXISTING REINFORCING STEEL, IF REQUIRED IN THE PLANS, IN PLACE. INSTALL DOWEL BARS IF SPECIFIED. PRIOR TO CONCRETE PLACEMENT ABRASIVELY CLEAN JOINT SURFACES AND EXISTING EXPOSED REINFORCEMENT TO REMOVE LOOSE AND DISINTEGRATED CONCRETE AND LOOSE RUST. THOROUGHLY CLEAN THE JOINT SURFACE AND EXPOSED REINFORCEMENT OF ALL DIRT, DUST, RUST OR OTHER FOREIGN MATERIAL BY THE USE OF WATER, AIR UNDER PRESSURE, OR OTHER METHODS THAT PRODUCE SATISFACTORY RESULTS. EXISTING REINFORCING STEEL DOES NOT HAVE TO HAVE A BRIGHT STEEL FINISH, BUT REMOVE PACK AND LOOSE RUST. THOROUGHLY DRENCH EXISTING CONCRETE SURFACES WITH CLEAN WATER AND ALLOW TO DRY TO A DAMP CONDITION BEFORE PLACING CONCRETE.

DECK SLAB CONCRETE QUANTITY
THE ESTIMATED QUANTITY OF DECK SLAB CONCRETE IS BASED ON THE CONSTANT DECK SLAB THICKNESS, AS SHOWN, PLUS THE QUANTITY OF CONCRETE THAT FORMS EACH BEAM HAUNCH. THE ESTIMATE ASSUMES A VARIED HAUNCH THICKNESS AS SHOWN IN THE BRIDGE TRANSVERSE SECTION AND A CONSTANT HAUNCH WIDTH OUTSIDE THE EDGE OF EACH BEAM FLANGE OF 9 INCHES. DEVIATE FROM THIS HAUNCH THICKNESS AS NECESSARY TO PLACE THE DECK SURFACE AT THE FINISHED GRADE. THE ALLOWABLE TOLERANCE FOR THE HAUNCH WIDTH OUTSIDE OF THE EDGE OF EACH BEAM FLANGE IS ± 3 INCHES.

THE HAUNCH THICKNESS WAS MEASURED AT THE CENTERLINE OF THE BEAM, FROM THE SURFACE OF THE DECK TO THE BOTTOM OF THE TIP FLANGE MINUS THE DECK SLAB THICKNESS, THE AREA OF ALL EMBEDDED STEEL PLATES HAS BEEN DEDUCTED FROM THE HAUNCH QUANTITY IN ACCORDANCE WITH C&MS 511.23.

SCUPPERS - BRIDGE PAINTING
BRIDGE PAINTING WILL EXCLUDE SCUPPERS TO BE GALVANIZED.

DESIGNED	CPS	CHECKED	TAG
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REVIEWED	JDR	DATE	09/13/16
		STRUCTURE FILE NUMBER	3003248/3003272
DESIGN AGENCY			
OHIO DEPARTMENT OF TRANSPORTATION, DISTRICT 5			
BRIDGE NOTES			
BRIDGE NO. GUE-77-1474 (LEFT & RIGHT)			
OVER C.R. 35			
GUE-77-VAR			
PID No. 21631			
2 / 44			
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ITEM 526 - REINFORCED CONCRETE APPROACH SLAB WITH OC/OA (T=17"), AS PER PLAN
FURNISH APPROACH SLABS CONFORMING TO C&MS 526. THE ACCEPTED QUANTITIES SHALL INCLUDE: CONCRETE, REINFORCING STEEL, JOINT FILLERS, JOINT SEALS, WATERPROOFING AND ANY OTHER INCIDENTALS SHOWN ON THE APPROACH SLAB DETAIL SHEETS. THE DEPARTMENT WILL INITIALLY PAY THE FULL BID PRICE TO THE CONTRACTOR UPON COMPLETING THE WORK. THE DEPARTMENT WILL CALCULATE THE FINAL ADJUSTED PAYMENT ACCORDING TO C&MS 455 AND INCLUDE APPROACH SLAB CONCRETE AND DECK CONCRETE IN THE SAME LOT TO DETERMINE FINAL PAY FACTORS.

ITEM 516, JACKING AND TEMPORARY SUPPORT OF SUPERSTRUCTURE, AS PER PLAN
THIS WORK CONSISTS OF RAISING OR REPOSITIONING EXISTING STRUCTURES TO THE DIMENSIONS AND REQUIREMENTS DEFINED IN THE PROJECT PLANS.

SUBMIT CONSTRUCTION PLANS IN ACCORDANCE WITH C&MS 501.05.

THIS ITEM SHALL BE USED TO SET THE PROPOSED BEARINGS AT EACH ABUTMENT.

ALL PLANNED JACKING OPERATIONS FOR THIS PROJECT SHALL OCCUR AFTER THE EXISTING DECK HAS BEEN REMOVED AND PRIOR TO PLACEMENT OF THE PROPOSED DECK.

IF UNFORESEEN NEED EXISTS AFTER PLACEMENT OF PROPOSED DECK, THE FOLLOW SPECIFICATION SHALL APPLY.

IF, DURING THE JACKING OPERATIONS, CRACKING OF THE CONCRETE SUPERSTRUCTURE, SEPARATION OF THE CONCRETE DECK FROM THE STEEL BEAMS, OR OTHER DAMAGE TO THE STRUCTURE IS VISUALLY OBSERVED, IMMEDIATELY CEASE THE JACKING OPERATION AND INSTALL SUPPORTS TO THE SATISFACTION OF THE ENGINEER. ANALYZE THE DAMAGE AND SUBMIT A METHOD OF CORRECTION TO THE ENGINEER FOR APPROVAL. EPOXY INJECT ALL BEAMS THAT SEPARATE FROM THE DECK FOR THE DISTANCE OF THE SEPARATION IN ACCORDANCE WITH C&MS 512.07. THE DEPARTMENT WILL NOT PAY FOR THE COST OF THIS EPOXY INJECTION OR OTHER REQUIRED REPAIRS.

AFTER THE PROPOSED REHABILITATION OF EACH ABUTMENT FOLLOWING EACH PHASE, THE BRIDGE BEARINGS SHALL BE FULLY SEATED AT ALL CONTACT AREAS. IF FULL SEATING IS NOT ATTAINED, SUBMIT A REPAIR PLAN TO THE ENGINEER. THE DEPARTMENT WILL NOT PAY FOR THE REPAIR COSTS TO ENSURE FULL SEATING ON BEARINGS.

THE DEPARTMENT WILL MEASURE THIS WORK ON A LUMP SUM BASIS.

THE DEPARTMENT WILL PAY FOR THE ACCEPTED QUANTITIES AT THE CONTRACT PRICE FOR ITEM 516. JACKING AND TEMPORARY SUPPORT OF SUPERSTRUCTURE, AS PER PLAN.

ELASTOMERIC BEARINGS
THE ELASTOMER SHALL HAVE A HARDNESS OF 50 DUROMETER. THE BEARINGS WERE DESIGNED UNDER DIVISION I, SECTION 14.6.6 (METHOD A) OF THE AASHTO STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES.

ITEM 513 - STRUCTURAL STEEL MEMBERS, LEVEL UF, AS PER PLAN
ALL REQUIREMENTS OF 513 APPLY TO SHOP FABRICATED MEMBERS. PREFORM WORK FOR FIELD FABRICATED MEMBERS ACCORDING TO ITEM 513, EXCEPT AS MODIFIED HEREIN. THE DEPARTMENT WILL NOT REQUIRE THE CONTRACTOR PERFORMING FIELD FABRICATION TO BE PREQUALIFIED AS SPECIFIED IN SUPPLEMENT 1078. SUBMIT A WRITTEN LETTER OF MATERIAL ACCEPTANCE, C&MS 501.06, TO THE ENGINEER. PROVIDE SHOP DRAWINGS ACCORDING TO C&MS 513.06 OR SUPPLY THE ENGINEER WITH "AS-BUILT" DRAWINGS MEETING C&MS 513.06 AFTER COMPLETION OF FIELD FABRICATION. THE ENGINEER WILL REVIEW THE SUBMITTED DRAWINGS FOR CONCURRENCE WITH THE FINAL AS-BUILT CONDITION. IF NECESSARY, THE ENGINEER MAY CONTACT THE OFFICE OF STRUCTURAL ENGINEERING FOR TECHNICAL ASSISTANCE. IF THE ENGINEER IS SATISFIED WITH THE "AS-BUILT" DRAWINGS AND THE DELIVERED MATERIALS, SUPPLY A COPY OF THE DRAWINGS, STAMPED AND DATED, ALONG WITH MICROFILM, TO THE OFFICE OF STRUCTURAL ENGINEERING FOR RECORD PURPOSES. THE FOLLOWING MEMBERS ARE INCLUDED IN THIS ITEM: STIFFENER PLATES.

WELDED ATTACHMENTS
WELD ATTACHMENTS OF SUPPORTS FOR CONCRETE DECK FINISHING MACHINE TO AREAS OF THE FASCIA STRINGER FLANGES DESIGNATED "COMPRESSION". DO NOT WELD ATTACHMENTS TO AREAS DESIGNATED "TENSION". FILLET WELDS TO COMPRESSION FLANGES SHALL BE AT LEAST 1" FROM EDGE OF FLANGE, BE NO MORE THAN 2" LONG, AND BE AT LEAST 1/4" FOR THICKNESSES UP TO 3/4" OR 3/16" FOR GREATER THAN 3/4" THICK.

ITEM 514 - FIELD PAINTING MISC.: PRIMARY MEMBER ENDS AND TOP OF FLANGE
THIS ITEM SHALL INCLUDE PAINTING AS WELL AS THE SURFACE PREPARATION OF THE PRIMARY MEMBER ENDS AND TOP OF FLANGE IN THE FIELD WITH PRIME COAT AS DIRECTED BY THE ENGINEER. THE WORK INDICATED IS LOCATED AT THE REAR AND FORWARD DIAPHRAGMS AND THE TOP OF BEAM FLANGE ON THE (LEFT) BRIDGE SPAN 3, BEAM 3 OR AS DIRECTED BY THE ENGINEER. ALL STEEL BEARING DEVICES, BEARING STIFFENERS, AND BEAM ENDS THAT ARE TO BE ENCASED IN CONCRETE AT THE REAR AND FORWARD DIAPHRAGMS, AS WELL AS THE TOP OF BEAM FLANGE AS INDICATED, SHALL BE TREATED. THE PRIME COAT MAY BE APPLIED BY BRUSH ACCORDING TO 514.17.E. SOLVENT CLEAN THE PRIMARY MEMBER ENDS AS PER SSPC-SP 1 AND SSPC-SP 2, RESPECTIVELY, PRIOR TO PLACING THE PRIME COAT ACCORDING TO ITEM 514.

CONTRACTOR SHALL PROVIDE CONTAINMENT TO MAINTAIN PROPER CURING TEMPERATURES.

THE CONTRACTOR WILL BE FINANCIALLY RESPONSIBLE FOR ANY DAMAGE OR INJURY TO PUBLIC OR PRIVATE PROPERTY DURING THE FIELD PAINTING OPERATION.

PAYMENT FOR ALL LABOR, EQUIPMENT, MATERIALS AND CONTAINMENT FOR CURING SHALL BE INCLUDED IN THE SQUARE FOOT CONTRACT BID FOR ITEM 514 FIELD PAINTING, MISC.: PRIMARY MEMBER ENDS AND TOP OF FLANGE

BRIDGE PAINTING - BEAM ENDS AND TOP OF BEAM FLANGE
THE BEAM ENDS ENCASED IN THE REAR AND FORWARD DIAPHRAGMS AND TOP OF BEAM FLANGES AS INDICATED SHALL RECEIVE SURFACE PREPARATION AND PRIME COAT ONLY. THIS SHALL BE PERFORMED AFTER HOLES ARE DRILLED IN WEBS AND BEFORE THE PLACEMENT OF THE DIAPHRAGM REINFORCING STEEL AND CONCRETE.

PAINTING OF STRUCTURAL STEEL
ALL STRUCTURAL STEEL SHALL BE PAINTED IN ACCORDANCE WITH SECTION 514 OF THE CONSTRUCTION AND MATERIAL SPECIFICATIONS. THE FINISH COAT COLOR SHALL BE GREEN FS-595C-14260.

ITEM 202 - REMOVAL MISC.: EXISTING BEARINGS
THIS ITEM SHALL INCLUDE THE REMOVAL OF ALL BEARING COMPONENTS AT THE ABUTMENTS AS WELL AS REMOVING RUST AND ANY OTHER DEBRIS FROM THE BEAMS TO PREPARE THEM FOR THE ATTACHMENT OF THE NEW BEARINGS. THE CONTRACTOR SHALL BE CAREFUL WHEN REMOVING THE BEARINGS AND WELDS FROM THE BEAMS SO NO DAMAGE IS DONE TO STEEL MEMBERS THAT ARE TO BE INCORPORATED INTO THE PROPOSED STRUCTURE. ANY DAMAGE DONE TO THE BEAMS SHALL BE REPAIRED BY THE CONTRACTOR AT HIS OWN EXPENSE.

ITEM 202 - REMOVAL MISC.: EXISTING END CROSSFRAMES AND INTERMEDIATE CROSSFRAMES
THIS ITEM SHALL INCLUDE THE REMOVAL OF THE END CROSS FRAMES, INTERMEDIATE CROSSFRAMES, AND WELDS FROM THE BEAMS. THE CONTRACTOR SHALL BE CAREFUL WHEN REMOVING THE END/INTERMEDIATE CROSSFRAMES AND WELDS FROM THE BEAMS SO NO DAMAGE IS DONE TO STEEL MEMBERS THAT ARE TO BE INCORPORATED INTO THE PROPOSED STRUCTURE. ANY DAMAGE DONE TO THE BEAMS SHALL BE REPAIRED BY THE CONTRACTOR AT HIS OWN EXPENSE.

ABUTMENT DIAPHRAGM CONCRETE
PLACE THE DIAPHRAGM CONCRETE ENCASING THE STRUCTURAL MEMBER ENDS AFTER THE DECK PLACEMENT IN THE ADJACENT SPAN IS COMPLETE. PROCEDURES THAT PLACE THE ABUTMENT DIAPHRAGM WITH THE DECK CONCRETE MAY BE APPROVED BY THE ENGINEER IF THE PLACEMENT SUBMITTAL CAN ASSURE THAT THE DECK CONCRETE IN THE ADJACENT SPAN WILL BE PLACED BEFORE CONCRETE IN THE DIAPHRAGM HAS REACHED ITS INITIAL SET.

DECK PLACEMENT DESIGN ASSUMPTIONS
THE FOLLOWING ASSUMPTIONS OF CONSTRUCTION MEANS AND METHODS WERE MADE FOR THE ANALYSIS AND DESIGN OF THE SUPERSTRUCTURE. THE CONTRACTOR IS RESPONSIBLE FOR THE DESIGN OF THE FALSEWORK SUPPORT SYSTEM WITHIN THESE PARAMETERS AND WILL ASSUME RESPONSIBILITY FOR SUPERSTRUCTURE ANALYSIS FOR DEVIATION FROM THESE DESIGN ASSUMPTIONS.

AN EIGHT WHEEL FINISHING MACHINE WITH A MAXIMUM WHEEL LOAD OF 2.25 KIPS FOR A TOTAL MACHINE LOAD OF 18.0 KIPS.

A MINIMUM OUT-TO-OUT WHEEL SPACING AT EACH END OF THE MACHINE OF 103".

A MAXIMUM SPACING OF OVERHANG FALSEWORK BRACKETS OF 48".

A MAXIMUM DISTANCE FROM THE CENTERLINE OF THE FASCIA GIRDER TO THE FACE OF THE SAFETY HANDRAIL OF 65".

FILL UNDER APPROACH SLABS
ITEM 304, AGGREGATE BASE SHALL BE USED TO BRING THE SUBBASE TO GRADE FOR THE NEW APPROACH SLAB AS DETAILED ON THE APPROACH SLAB DETAIL SHEETS AND SHALL EXTEND 1'-6" ON BOTH SIDES OF EACH APPROACH SLAB.

POROUS BACKFILL WITH FILTER FABRIC
POROUS BACKFILL WITH FILTER FABRIC, 2 FEET THICK SHALL EXTEND UP TO THE PLANS OF THE SUBGRADE TO 1 FOOT BELOW THE EMBANKMENT SURFACE, AND LATERALLY TO THE ENDS OF THE WINGWALLS.

SURFACE SMOOTHNESS FOR BRIDGES AND APPROACHES
AT THE COMPLETION OF WORK FOR ALL PHASES OF CONSTRUCTION THE CONTRACTOR SHALL PERFORM THE FOLLOWING AS PER PROPOSAL NOTE 555:

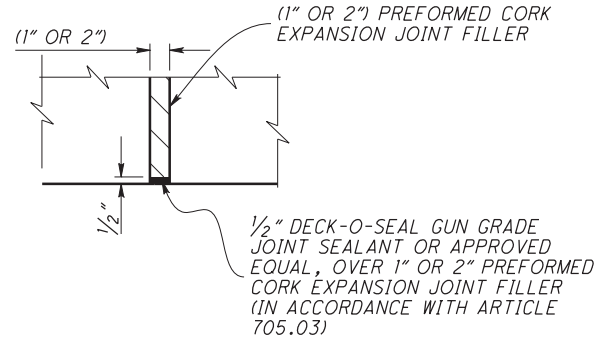
1. CLEAN, SWEEP, AND PREPARE THE FINAL DECK AND FINAL ROADWAY SURFACE.
2. MEASURE, GRIND, AND RE-MEASURE THE BRIDGE AND/OR ROADWAY AS NECESSARY.
3. PERFORM GROOVING OF THE BRIDGE DECK.

DESIGN AGENCY		OHIO DEPARTMENT OF TRANSPORTATION, DISTRICT 5	
REVIEWED	DATE	STRUCTURE FILE NUMBER	
JDR	09/13/16	3003248/3003272	
DRAWN	CPS	REVISED	
CPS		---	
DESIGNED	CPS	CHECKED	TAG
BRIDGE NOTES			
BRIDGE NO. GUE-77-1474 (LEFT & RIGHT) OVER C.R. 35			
GUE-77-VAR		PID No. 21631	
3 / 44		51 129	

**ITEM 516 - 1" PREFORMED EXPANSION JOINT FILLER,
AS PER PLAN**
**ITEM 516 - 2" PREFORMED EXPANSION JOINT FILLER,
AS PER PLAN**

ALL (1", & 2") P.E.J.F. CALLED FOR IN THE PLANS SHALL BE PREFORMED CORK JOINT FILLER (IN ACCORDANCE WITH ARTICLE 705.03). RECESS JOINT FILLER (1", & 2") FOR ALL JOINTS (SEE DETAIL). SEAL ALL JOINTS WITH DECK-O-SEAL GUN GRADE-JOINT SEALANT OR AN APPROVED EQUAL. THE COLOR SHALL BE STONE GRAY. APPROVED MANUFACTURER'S APPLICATION METHODS SHALL BE FOLLOWED DURING SURFACE PREPARATION AND APPLICATION FOR MAXIMUM EFFECTIVENESS.

DECK-O-SEAL
P.O. BOX 397
HAMPSHIRE, IL 60140
PHONE: 800-542-7665



PAYMENT FOR THE ABOVE WORK SHALL BE MADE AT THE UNIT PRICE BID FOR ITEM 516 -1" PEJF, A.P.P. AND ITEM 516 - 2" PEJF, A.P.P., SQ.FT., AND SHALL INCLUDE ALL LABOR, EQUIPMENT, AND INCIDENTALS REQUIRED TO COMPLETE THE WORK DESCRIBED.

I:\ProjectData\GUE\21631\Design\Structures\GUE077_1474C\Sheets\077_1474C_SN201.dgn Bridge Notes_3 9/19/2016 11:45:50 AM cshonk

BRIDGE NOTES		DESIGN AGENCY OHIO DEPARTMENT OF TRANSPORTATION, DISTRICT 5
BRIDGE NO. GUE-77-1474 (LEFT & RIGHT) OVER C.R. 35	REVIEWED JDR DATE 09/13/16 STRUCTURE FILE NUMBER 3003248/3003272	DRAWN CPS REVISED ---
GUE-77-VAR PID No. 21631	DESIGNED CPS CHECKED TAG	4 / 44
52 129		

I:\ProjectData\GUE\21631\Design\Structures\GUE077_1474C\Sheets\077_1474C_SQ201.dgn Left Bridge Quantities 9/19/2016 11:45:50 AM cshonk

SHEET NUM.										PART.		ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.	
										02/IMS/BR								
STRUCTURE OVER 20 FOOT SPAN (GUE-77-1474L)																		
												280	202	11301	280	CY	PORTIONS OF STRUCTURE REMOVED, AS PER PLAN (SUPERSTRUCTURE)	2
												130	202	11301	130	CY	PORTIONS OF STRUCTURE REMOVED, AS PER PLAN (SUBSTRUCTURE)	2
												130	202	22900	130	SY	APPROACH SLAB REMOVED	
												LS	202	98000	LS		REMOVAL MISC.: EXISTING END CROSSFRAMES AND INTERMEDIATE CROSSFRAMES	3
												10	202	98100	10	EACH	REMOVAL MISC.: EXISTING BEARINGS	3
												LS	503	11100	LS		COFFERDAMS AND EXCAVATION BRACING	
												LS	503	21300	LS		UNCLASSIFIED EXCAVATION	
												70,823	509	10000	70,823	LB	EPOXY COATED REINFORCING STEEL	
												216	510	10000	216	EACH	DOWEL HOLES WITH NONSHRINK, NONMETALLIC GROUT	
												2	511	33501	2	EACH	SEMI-INTEGRAL DIAPHRAGM GUIDE, AS PER PLAN	26
												239	511	34446	239	CY	CLASS OC2 CONCRETE WITH QC/OA, BRIDGE DECK	
												55	511	34450	55	CY	CLASS OC2 CONCRETE WITH QC/OA, BRIDGE DECK (PARAPET)	
												110	511	43510	110	CY	CLASS OC1 CONCRETE, ABUTMENT INCLUDING FOOTING	
												777	512	10050	777	SY	SEALING OF CONCRETE SURFACES (NON-EPOXY)	
												LS	513	10060	LS		STRUCTURAL STEEL MEMBERS, LEVEL 3	
												1,336	513	10201	1,336	LB	STRUCTURAL STEEL MEMBERS, LEVEL UF, AS PER PLAN	3
												2,450	513	20000	2,450	EACH	WELDED STUD SHEAR CONNECTORS	
												7,284	514	00050	7,284	SF	SURFACE PREPARATION OF EXISTING STRUCTURAL STEEL	
												7,284	514	00056	7,284	SF	FIELD PAINTING OF EXISTING STRUCTURAL STEEL, PRIME COAT	
												7,284	514	00060	7,284	SF	FIELD PAINTING STRUCTURAL STEEL, INTERMEDIATE COAT	
												7,284	514	00066	7,284	SF	FIELD PAINTING STRUCTURAL STEEL, FINISH COAT	
												12	514	00504	12	MNHR	GRINDING FINS, TEARS, SLIVERS ON EXISTING STRUCTURAL STEEL	
												7	514	10000	7	EACH	FINAL INSPECTION REPAIR	
												353	514	27700	353	SF	FIELD PAINTING, MISC.: PRIMARY MEMBER ENDS AND TOP OF FLANGE	3
												351	516	13601	351	SF	1" PREFORMED EXPANSION JOINT FILLER, AS PER PLAN	4
												115	516	13901	115	SF	2" PREFORMED EXPANSION JOINT FILLER, AS PER PLAN	4
												139	516	14020	139	FT	SEMI-INTEGRAL ABUTMENT EXPANSION JOINT SEAL	
												58	516	14500	58	SF	STRUCTURAL JOINT OR JOINT SEALER, MISC.: JEENE SEAL WITH SLEEPER SLAB	44
												10	516	44100	10	EACH	ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE) (2.9985" x 1'-3" x 1'-0")	
												LS	516	47001	LS		JACKING AND TEMPORARY SUPPORT OF SUPERSTRUCTURE, AS PER PLAN	3
												6	518	12201	6	EACH	SCUPPERS, INCLUDING SUPPORTS, AS PER PLAN	21
												87	518	21200	87	CY	POROUS BACKFILL WITH GEOTEXTILE FABRIC	
												162	518	40000	162	FT	6" PERFORATED CORRUGATED PLASTIC PIPE	
												40	518	40010	40	FT	6" NON-PERFORATED CORRUGATED PLASTIC PIPE, INCLUDING SPECIALS	
												289	526	30011	289	SY	REINFORCED CONCRETE APPROACH SLABS WITH QC/OA (T=17"), AS PER PLAN	3

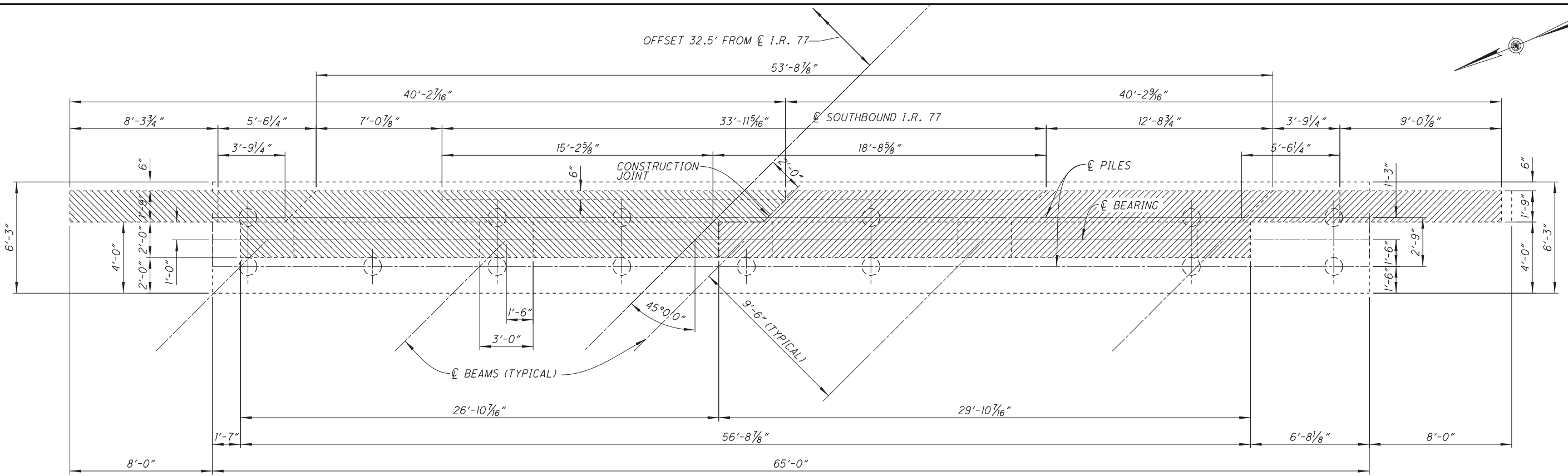
BRIDGE SUMMARY BRIDGE NO. GUE-77-1474 (LEFT BRIDGE) OVER C.R. 35	DESIGN AGENCY OHIO DEPARTMENT OF TRANSPORTATION, DISTRICT 5
DESIGNED CPS CHECKED TAG	REVIEWED JDR STRUCTURE FILE NUMBER 3003248
DRAWN CPS REVISED ---	DATE 09/13/16
GUE-77-VAR PID No. 21631	5 / 44 53 129

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SHEET NUM.										PART.		ITEM	ITEM	GRAND	UNIT	DESCRIPTION	SEE	
										02/IMS/BR			EXT	TOTAL			NO.	
STRUCTURE OVER 20 FOOT SPAN (GUE-77-1474R)																		
												274	202	11301	274	CY	PORTIONS OF STRUCTURE REMOVED, AS PER PLAN (SUPERSTRUCTURE)	2
												129	202	11301	129	CY	PORTIONS OF STRUCTURE REMOVED, AS PER PLAN (SUBSTRUCTURE)	2
												130	202	22900	130	SY	APPROACH SLAB REMOVED	
												LS	202	98000	LS	REMOVAL MISC.: EXISTING END CROSSFRAMES AND INTERMEDIATE CROSSFRAMES	3	
												10	202	98100	EACH	REMOVAL MISC.: EXISTING BEARINGS	3	
												LS	503	11100	LS	COFFERDAMS AND EXCAVATION BRACING		
												LS	503	21300	LS	UNCLASSIFIED EXCAVATION		
												70,819	509	10000	70,819	LB	EPOXY COATED REINFORCING STEEL	
												216	510	10000	216	EACH	DOWEL HOLES WITH NONSHRINK, NONMETALLIC GROUT	
												2	511	33501	2	EACH	SEMI-INTEGRAL DIAPHRAGM GUIDE, AS PER PLAN	26
												253	511	34446	253	CY	CLASS OC2 CONCRETE WITH QC/OA, BRIDGE DECK	
												55	511	34450	55	CY	CLASS OC2 CONCRETE WITH QC/OA, BRIDGE DECK (PARAPET)	
												109	511	43510	109	CY	CLASS OC1 CONCRETE, ABUTMENT INCLUDING FOOTING	
												778	512	10050	778	SY	SEALING OF CONCRETE SURFACES (NON-EPOXY)	
												LS	513	10060	LS	STRUCTURAL STEEL MEMBERS, LEVEL 3		
												1,336	513	10201	1,336	LB	STRUCTURAL STEEL MEMBERS, LEVEL UF, AS PER PLAN	3
												2,450	513	20000	2,450	EACH	WELDED STUD SHEAR CONNECTORS	
												7,284	514	00050	7,284	SF	SURFACE PREPARATION OF EXISTING STRUCTURAL STEEL	
												7,284	514	00056	7,284	SF	FIELD PAINTING OF EXISTING STRUCTURAL STEEL, PRIME COAT	
												7,284	514	00060	7,284	SF	FIELD PAINTING STRUCTURAL STEEL, INTERMEDIATE COAT	
												7,284	514	00066	7,284	SF	FIELD PAINTING STRUCTURAL STEEL, FINISH COAT	
												12	514	00504	12	MNHR	GRINDING FINS, TEARS, SLIVERS ON EXISTING STRUCTURAL STEEL	
												7	514	10000	7	EACH	FINAL INSPECTION REPAIR	
												307	514	27700	307	SF	FIELD PAINTING, MISC.: PRIMARY MEMBER ENDS AND TOP OF FLANGE	3
												351	516	13601	351	SF	1" PREFORMED EXPANSION JOINT FILLER, AS PER PLAN	4
												116	516	13901	116	SF	2" PREFORMED EXPANSION JOINT FILLER, AS PER PLAN	4
												139	516	14020	139	FT	SEMI-INTEGRAL ABUTMENT EXPANSION JOINT SEAL	
												58	516	14500	58	SF	STRUCTURAL JOINT OR JOINT SEALER, MISC.: JEENE SEAL WITH SLEEPER SLAB	44
												10	516	44100	10	EACH	ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE) (2.9985" x 1'-3" x 1'-0")	
												LS	516	47001	LS	JACKING AND TEMPORARY SUPPORT OF SUPERSTRUCTURE, AS PER PLAN	3	
												6	518	12201	6	EACH	SCUPPERS, INCLUDING SUPPORTS, AS PER PLAN	21
												86	518	21200	86	CY	POROUS BACKFILL WITH GEOTEXTILE FABRIC	
												161	518	40000	161	FT	6" PERFORATED CORRUGATED PLASTIC PIPE	
												40	518	40010	40	FT	6" NON-PERFORATED CORRUGATED PLASTIC PIPE, INCLUDING SPECIALS	
												289	526	30011	289	SY	REINFORCED CONCRETE APPROACH SLABS WITH QC/OA (T=17"), AS PER PLAN	3

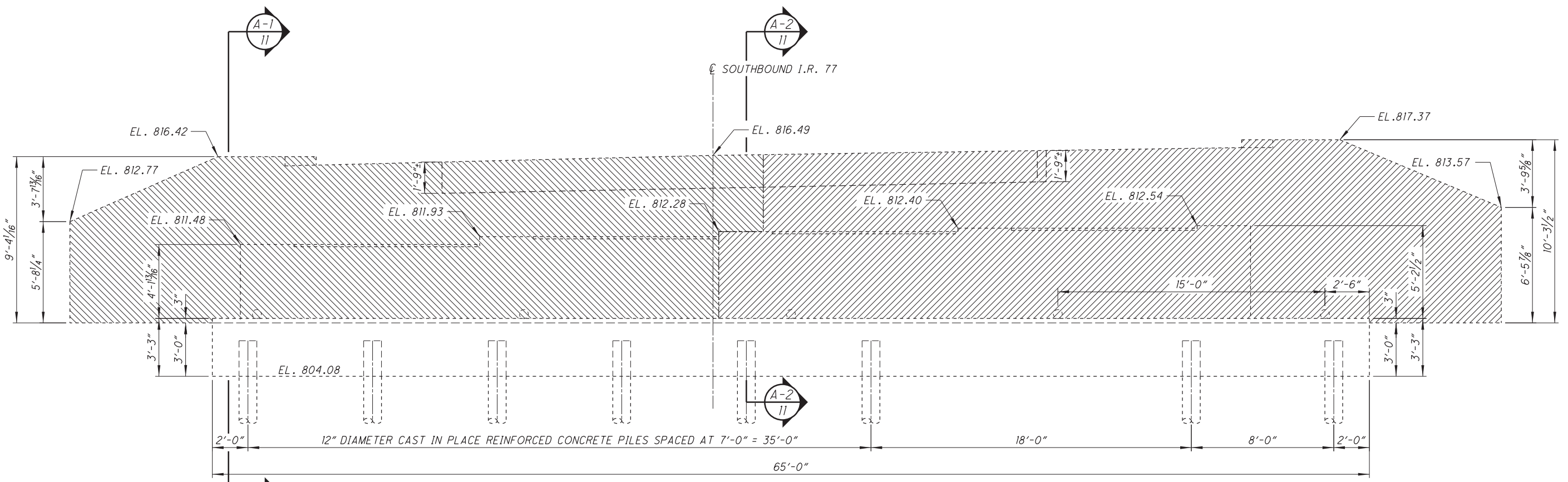
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DATE	09/13/16
REVIEWED	JDR
DRAWN	CPS
DESIGNED	CPS
CHECKED	TAG
STRUCTURE FILE NUMBER	3003272
REVISED	---
BRIDGE SUMMARY	
BRIDGE NO. GUE-77-1474 (RIGHT BRIDGE)	
OVER C.R. 35	
GUE-77-VAR	
PID No. 21631	
6	/ 44
54	
129	

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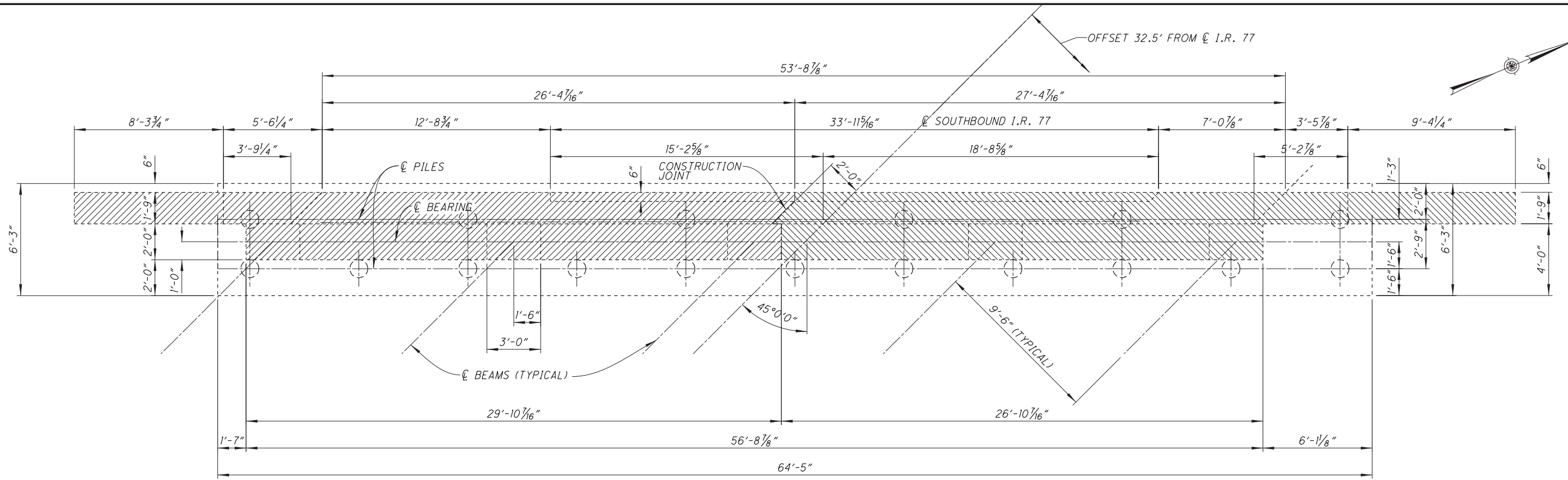
SUBSTRUCTURE REMOVED - (PHASE 1)

SUBSTRUCTURE REMOVED - (PHASE 2)



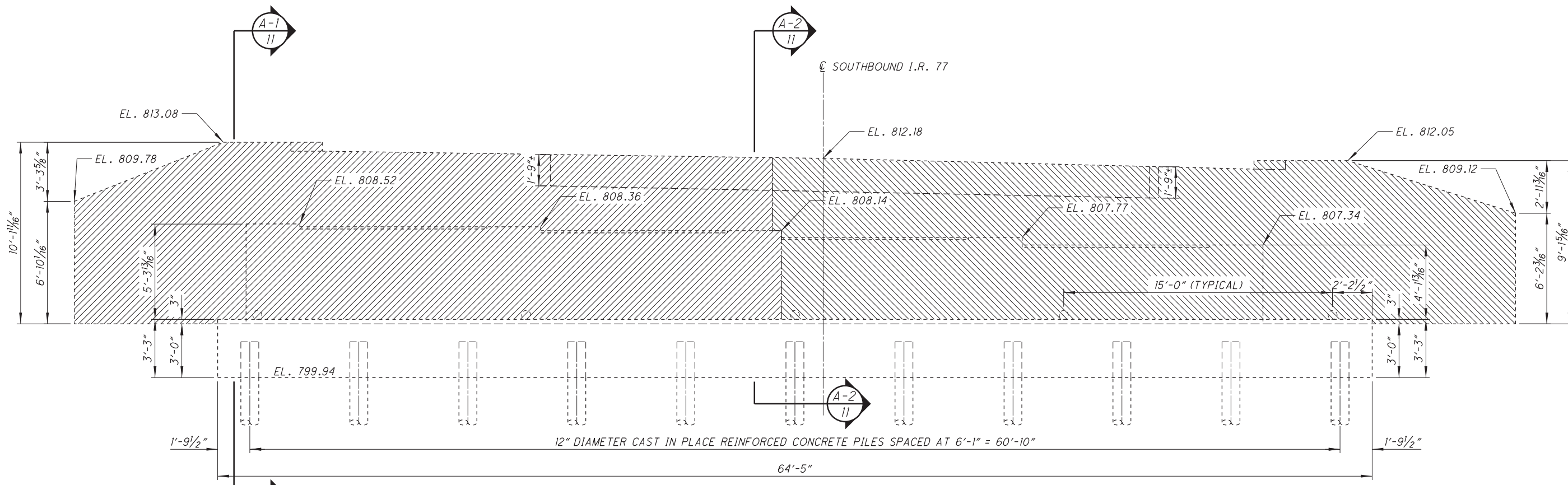
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REVIEWED	DATE	STRUCTURE FILE NUMBER	
JDR	09/13/16	3003248	
DRAWN	CPS	REVIS	
CPS		---	
DESIGNED	CPS	CHECKED	TAG
EXISTING REAR ABUTMENT REMOVALS			
BRIDGE NO. GUE-77-1474 (LEFT BRIDGE) OVER C.R. 35			
GUE-77-VAR		PID No. 21631	
7 / 44		55 129	

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PLAN VIEW

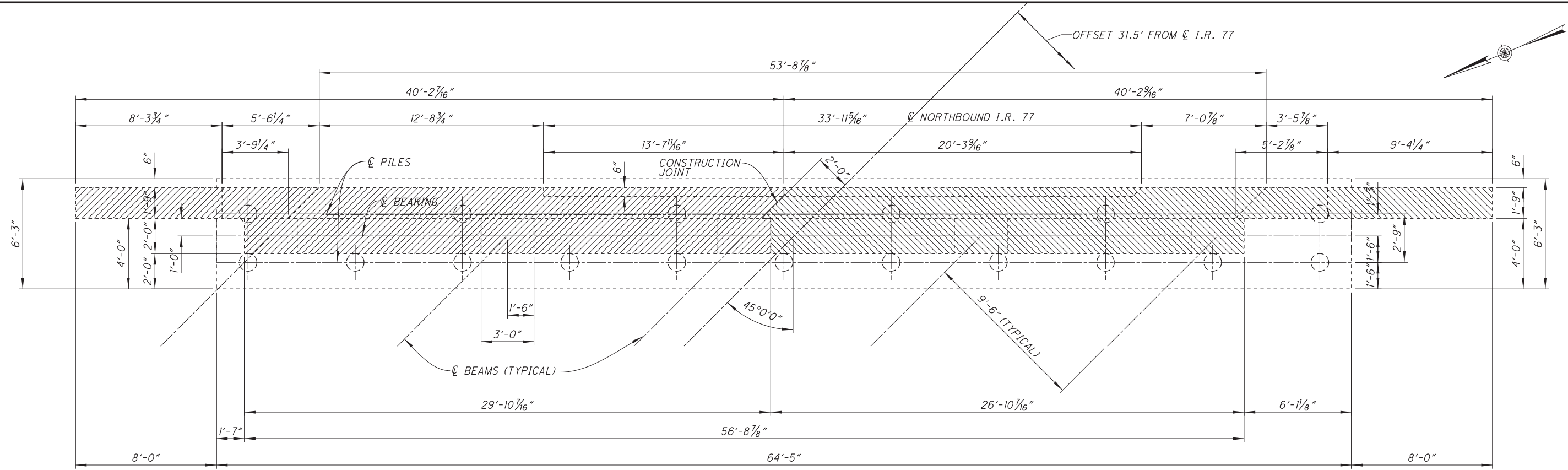
SUBSTRUCTURE REMOVED - (PHASE 1)
 SUBSTRUCTURE REMOVED - (PHASE 2)



ELEVATION VIEW

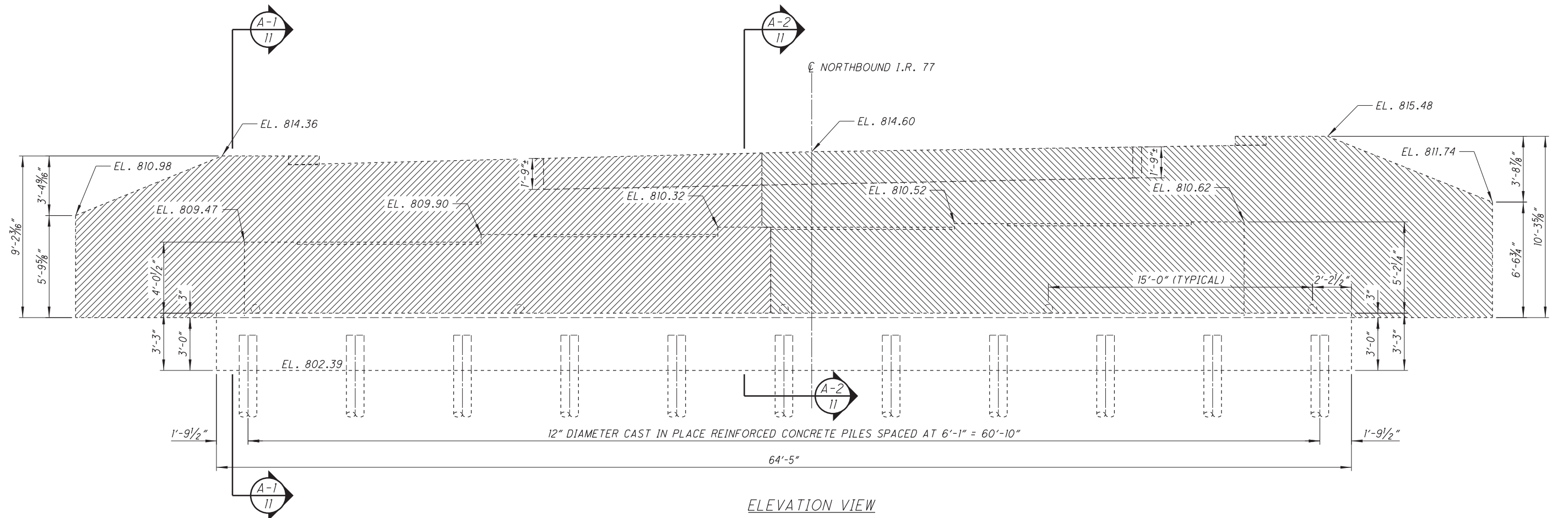
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REVIEWED	DATE	STRUCTURE FILE NUMBER	
JDR	09/13/16	3003248	
DRAWN	CPS	REVIS	---
CPS		TAG	
EXISTING FORWARD ABUTMENT REMOVALS			
BRIDGE NO. GUE-77-1474 (LEFT BRIDGE) OVER C.R. 35			
GUE-77-VAR		PID No. 21631	
8 / 44		56 129	

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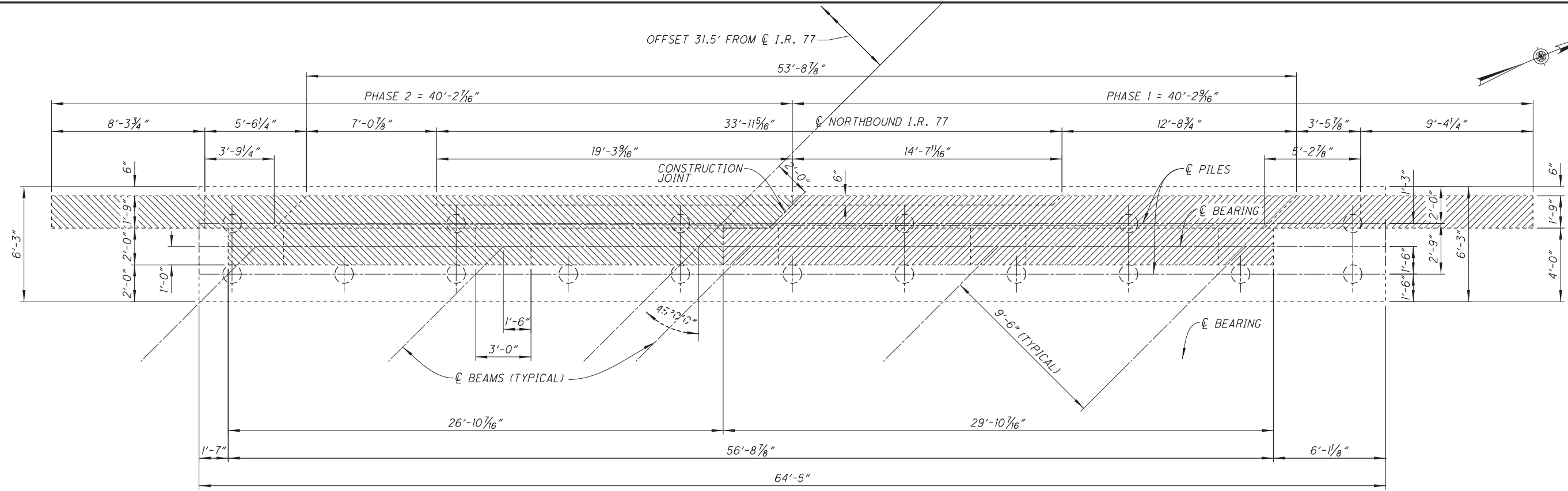
SUBSTRUCTURE REMOVED - (PHASE 1) [Hatched pattern]

SUBSTRUCTURE REMOVED - (PHASE 2) [Hatched pattern]



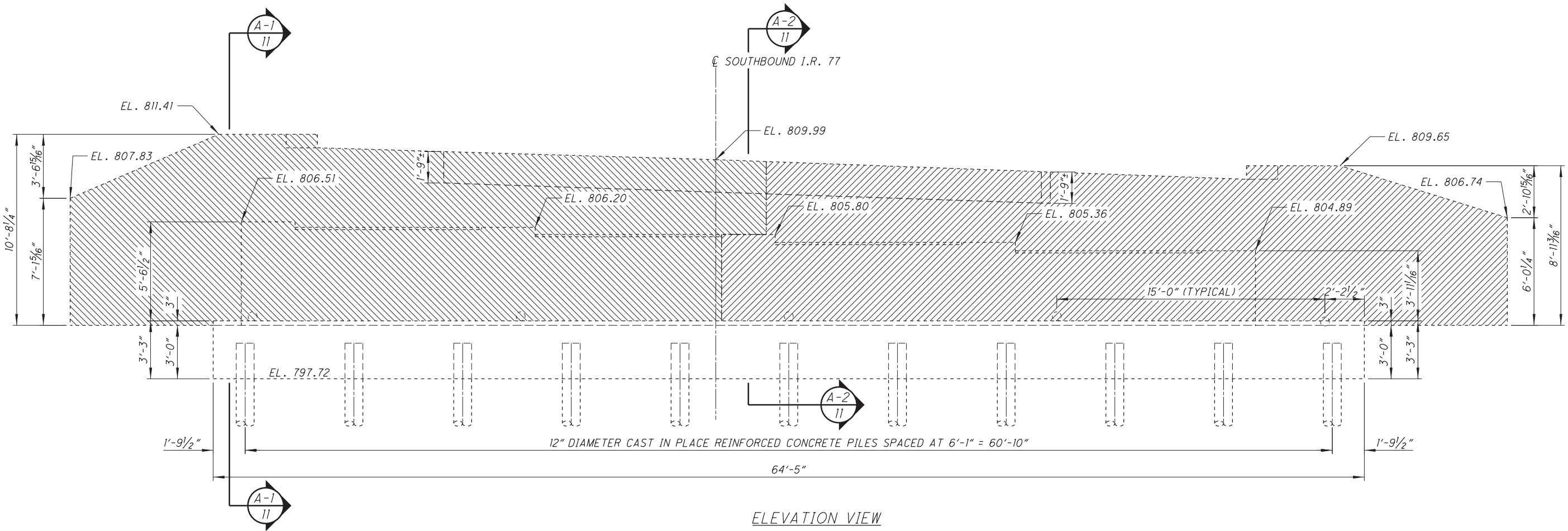
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REVIEWED	DATE	STRUCTURE FILE NUMBER	
JDR	09/13/16	3003272	
DRAWN	CPS	REVIS	
CPS		---	
DESIGNED	CPS	CHECKED	TAG
EXISTING REAR ABUTMENT REMOVALS			
BRIDGE NO. GUE-77-1474 (RIGHT BRIDGE) OVER C.R. 35			
GUE-77-VAR		PID No. 21631	
9 / 44		57 129	

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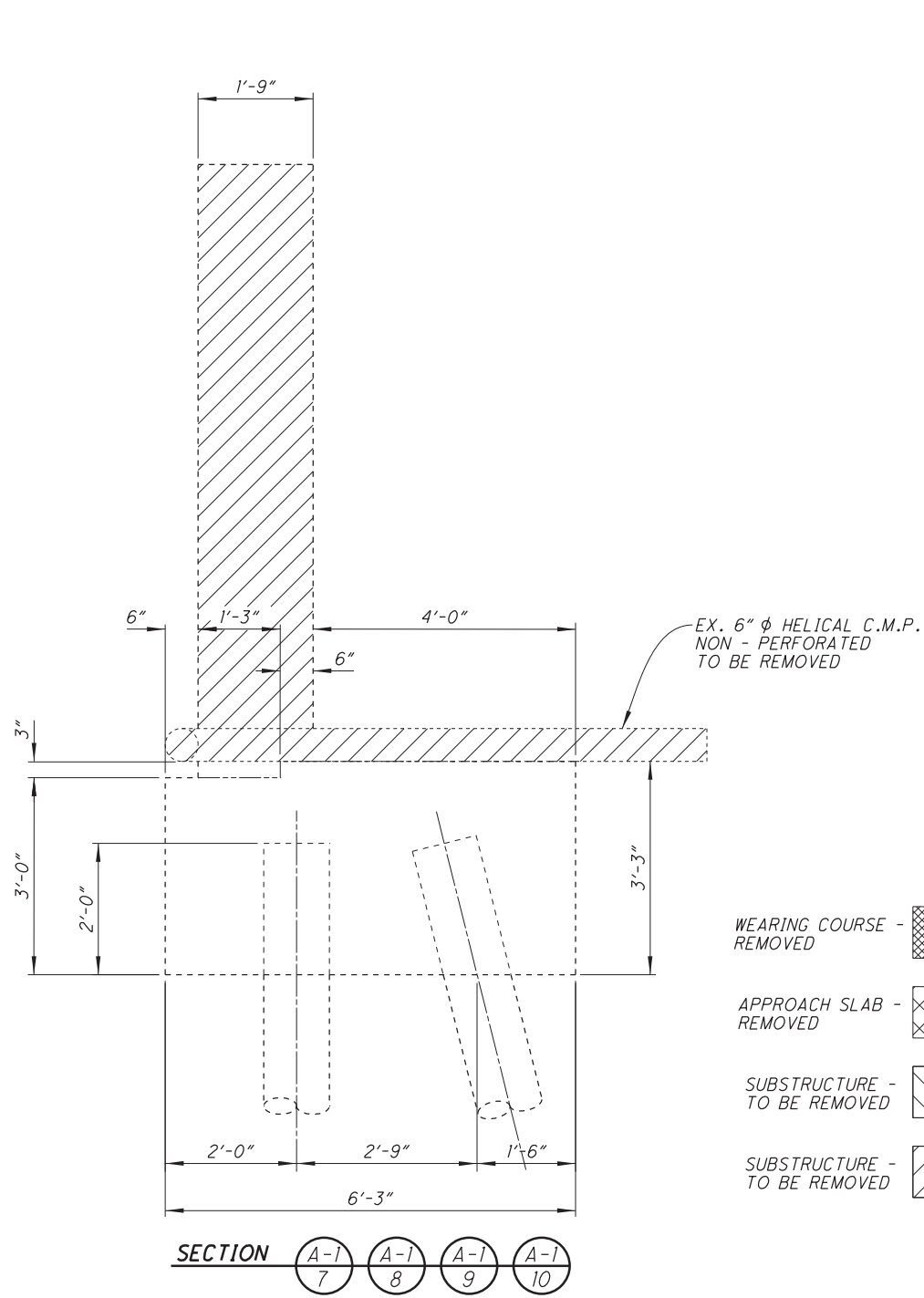
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SUBSTRUCTURE REMOVED - (PHASE 2)

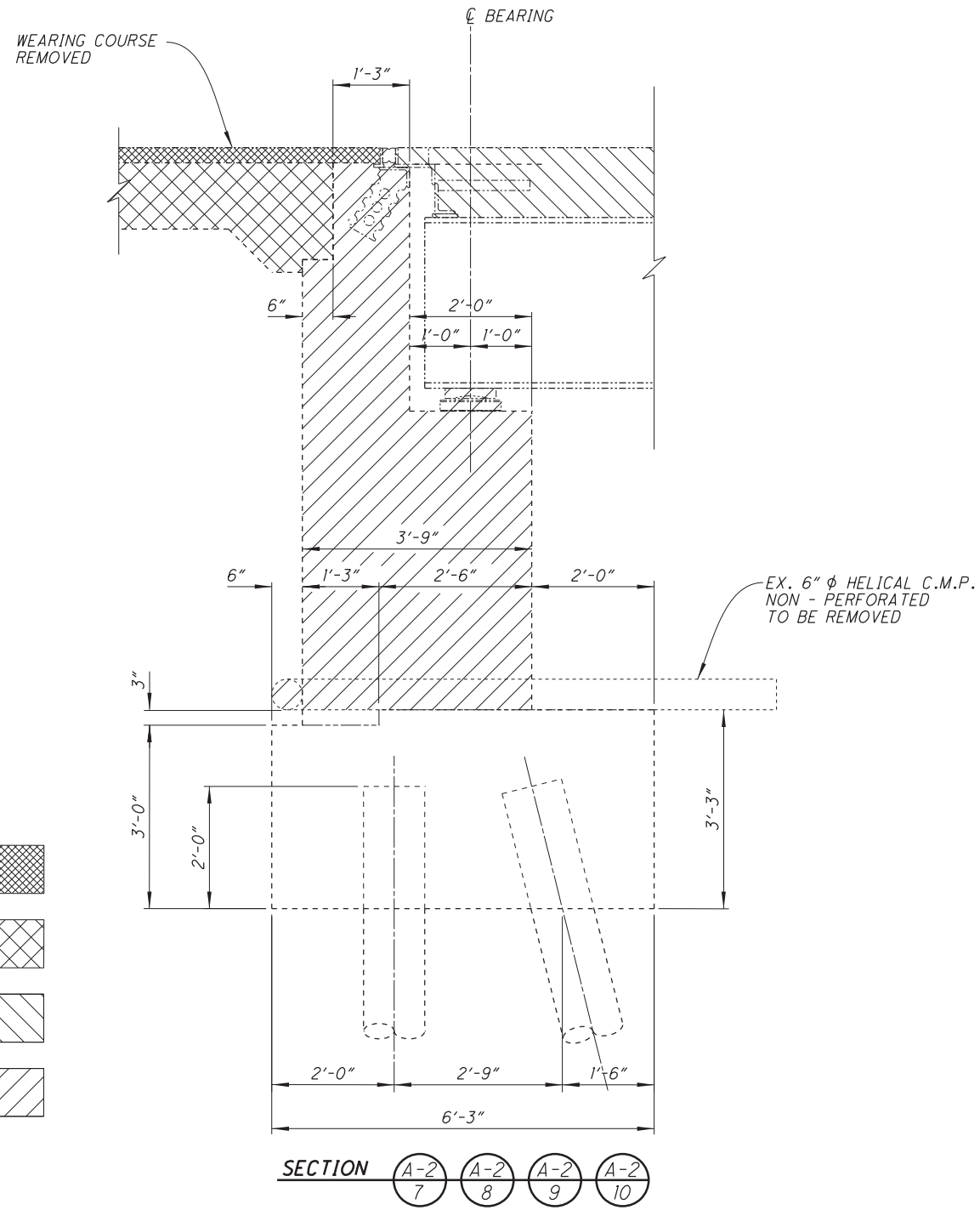


DESIGN AGENCY		OHIO DEPARTMENT OF TRANSPORTATION, DISTRICT 5	
DESIGNED	CPS	CHECKED	TAG
DRAWN	CPS	REVISED	---
REVIEWED	JDR	STRUCTURE FILE NUMBER	3003272
DATE	09/13/16		
EXISTING FORWARD ABUTMENT REMOVALS			
BRIDGE NO. GUE-77-1474 (RIGHT BRIDGE) OVER C.R. 35			
GUE-77-VAR		PID No. 21631	
10/44		58	
		129	

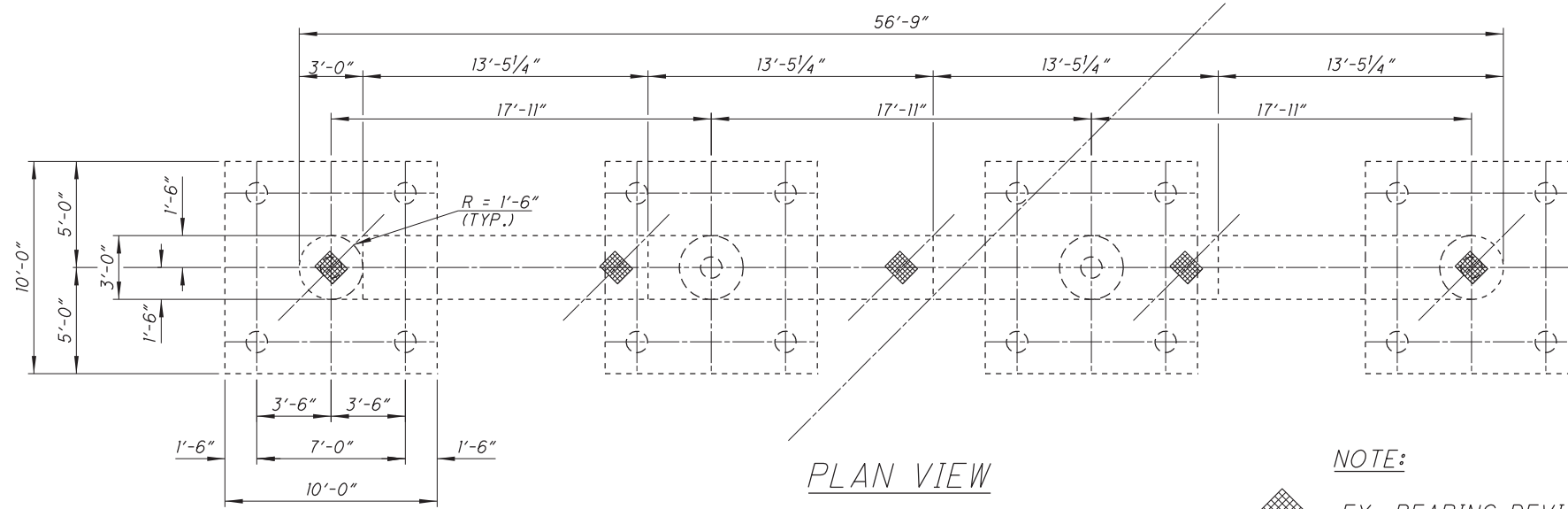
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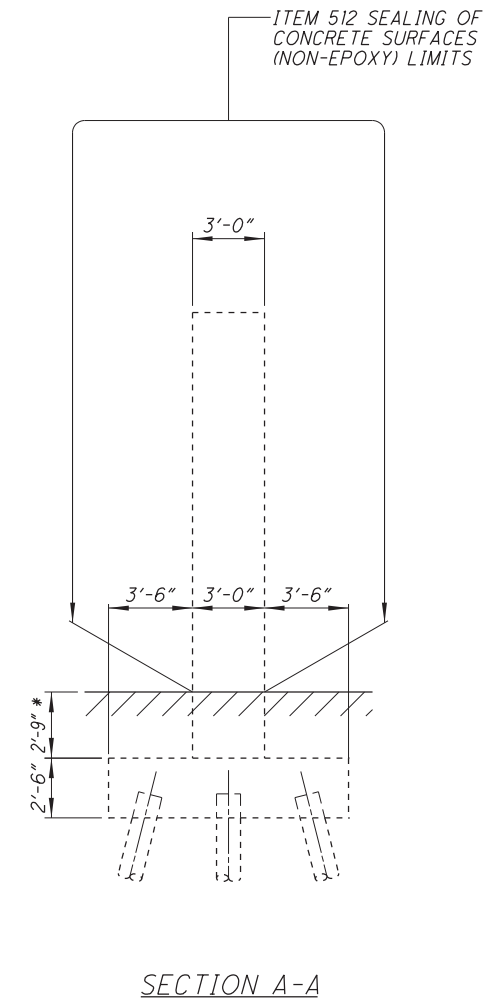
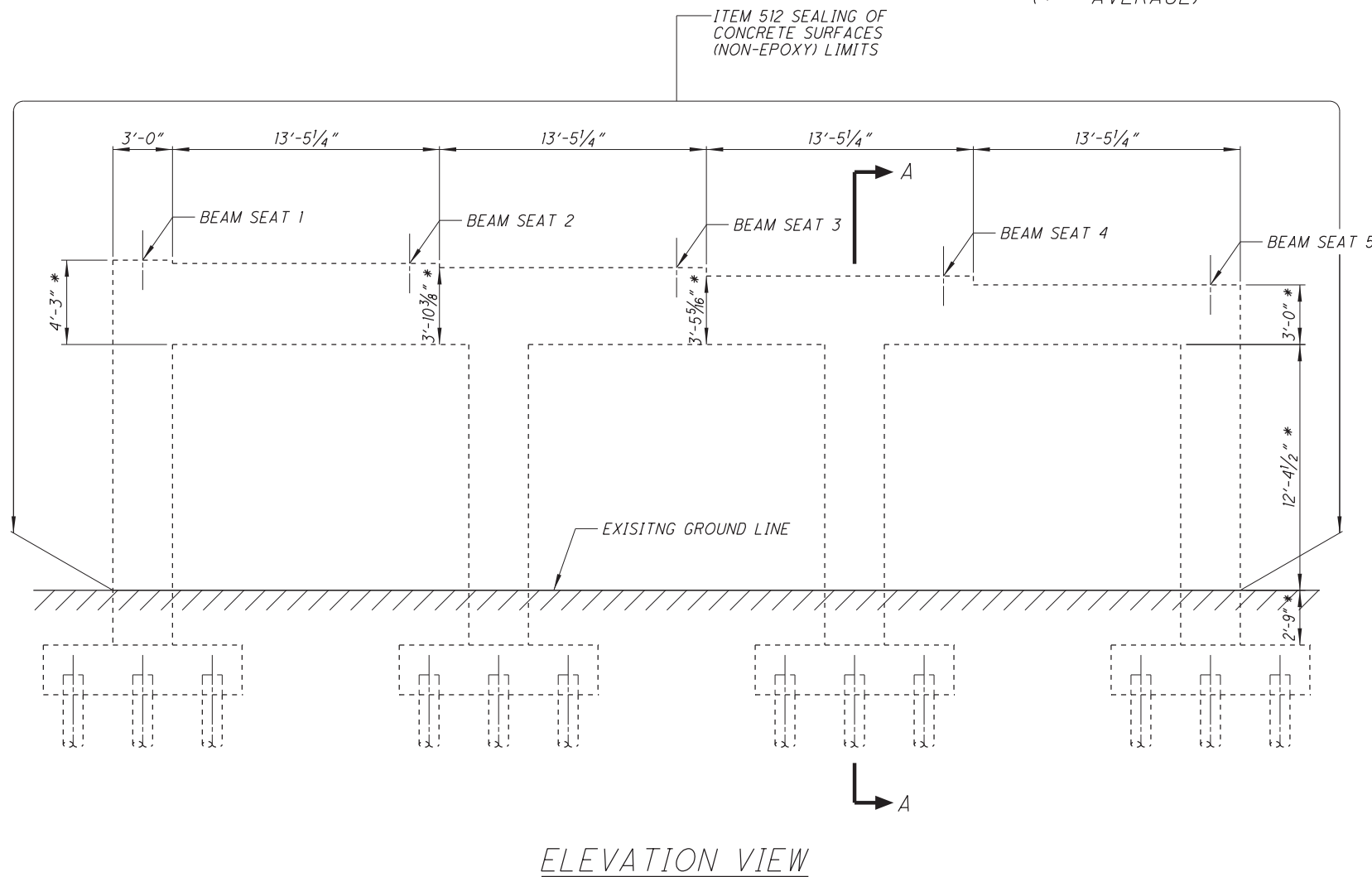
- WEARING COURSE - REMOVED
- APPROACH SLAB - REMOVED
- SUBSTRUCTURE - TO BE REMOVED
- SUBSTRUCTURE - TO BE REMOVED



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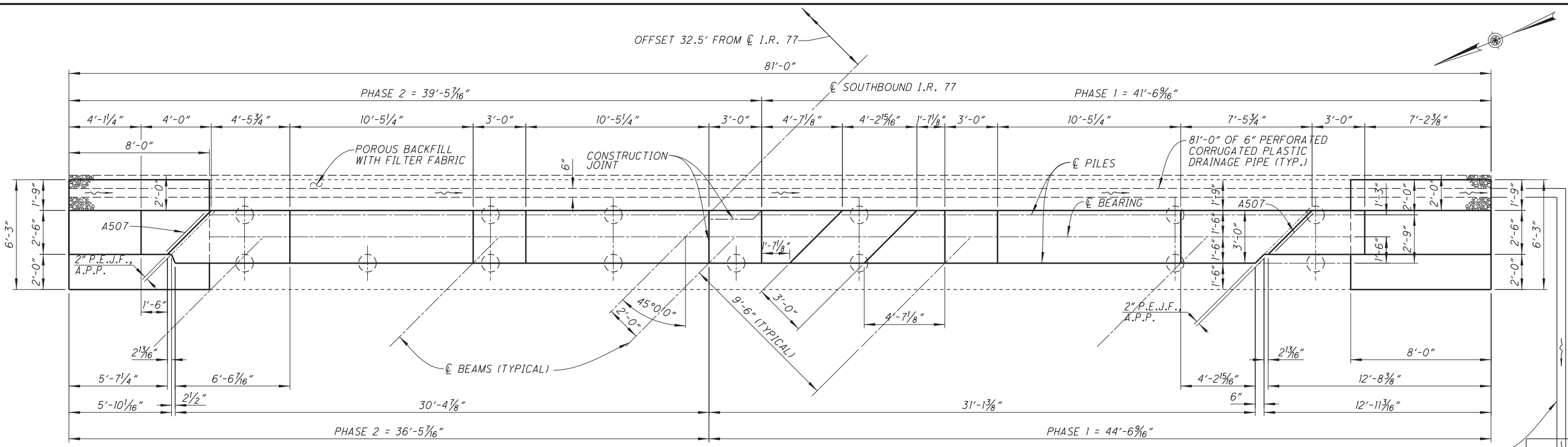


NOTE:
 - EX. BEARING DEVICES NOT TO BE SEALED DEDUCT 0.19 SQ. YD. AVERAGE EACH
 (* - AVERAGE)

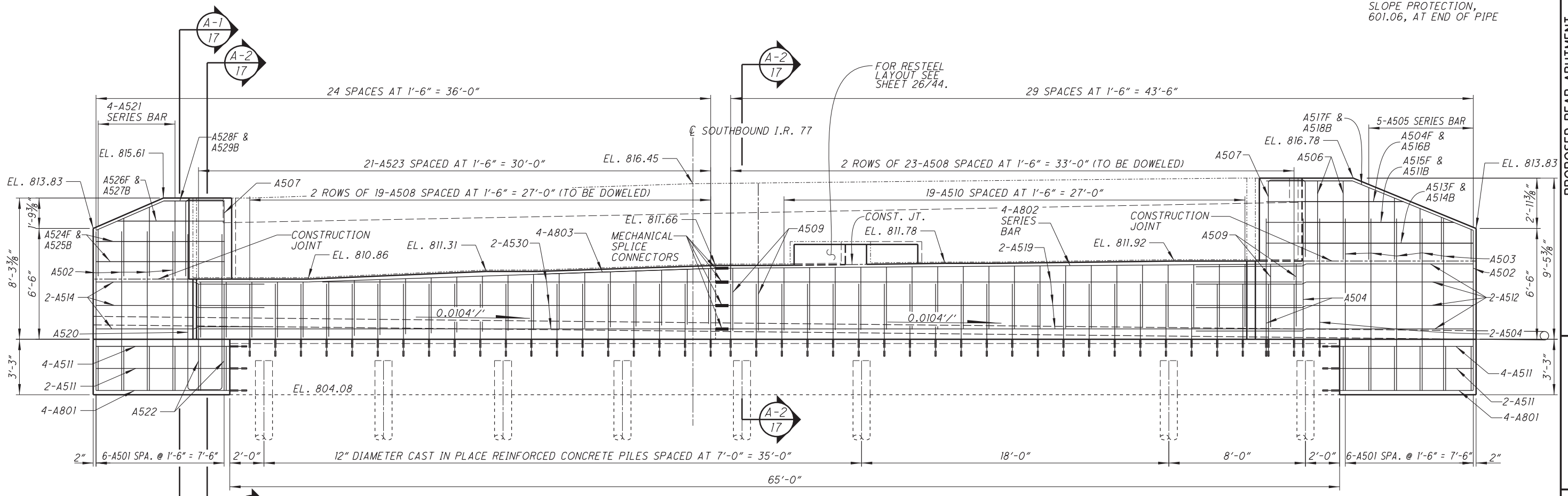


DESIGNED		CHECKED		TAG	
CPS	CPS	CPS	CPS	---	---
DRAWN		REVIEWED		DATE	
CPS	JDR	JDR	JDR	09/13/16	09/13/16
BRIDGE NO. GUE-77-1474 (LEFT & RIGHT BRIDGES)		STRUCTURE FILE NUMBER		3003248/3003272	
EXISTING PIER 1 AND 2 DETAILS		DESIGN AGENCY		OHIO DEPARTMENT OF TRANSPORTATION, DISTRICT 5	
GUE-77-VAR		OVER C.R. 35		PID No. 21631	
12/44		60		129	

OFFSET 32.5' FROM C I.R. 77



PLAN VIEW



ELEVATION VIEW

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DESIGN AGENCY
OHIO DEPARTMENT OF
TRANSPORTATION, DISTRICT 5

DATE
09/13/16

REVIEWED
JDR

DESIGNED
CPS

CHECKED
TAG

STRUCTURE FILE NUMBER
3003248

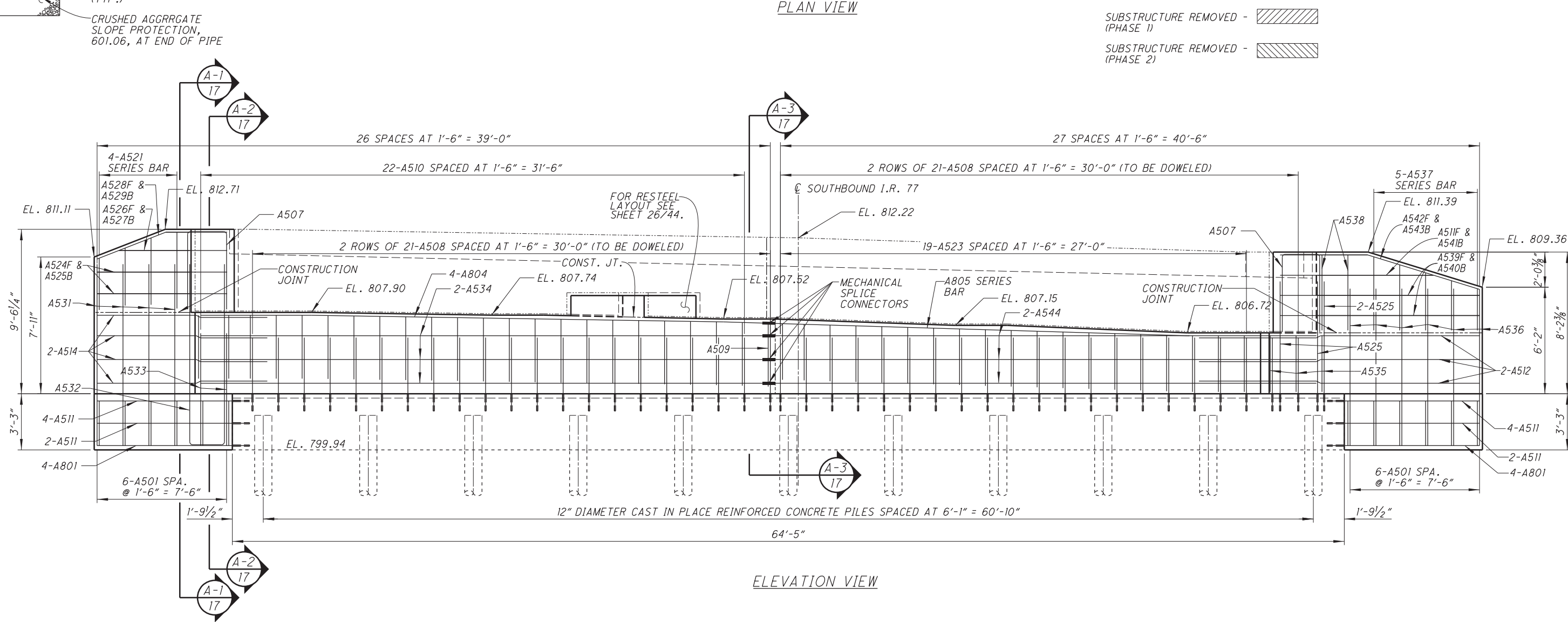
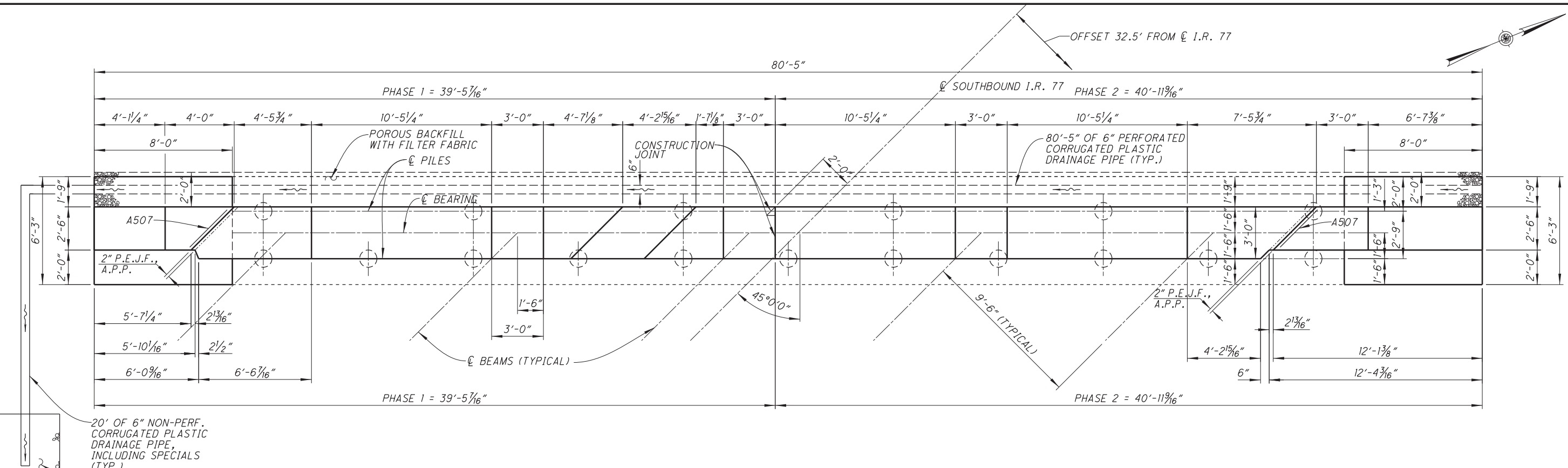
PROPOSED REAR ABUTMENT
BRIDGE NO. GUE-77-1474 (LEFT BRIDGE)
OVER C.R. 35

PID No. 21631

13 / 44

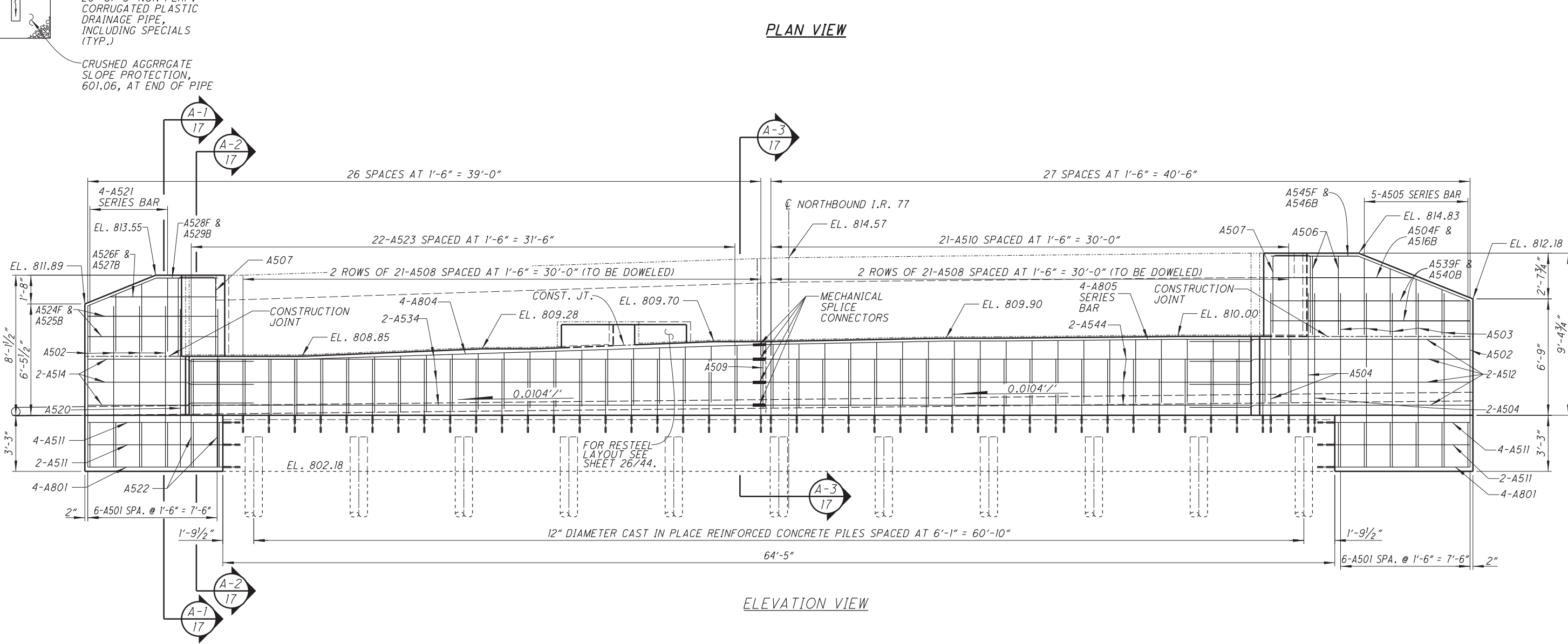
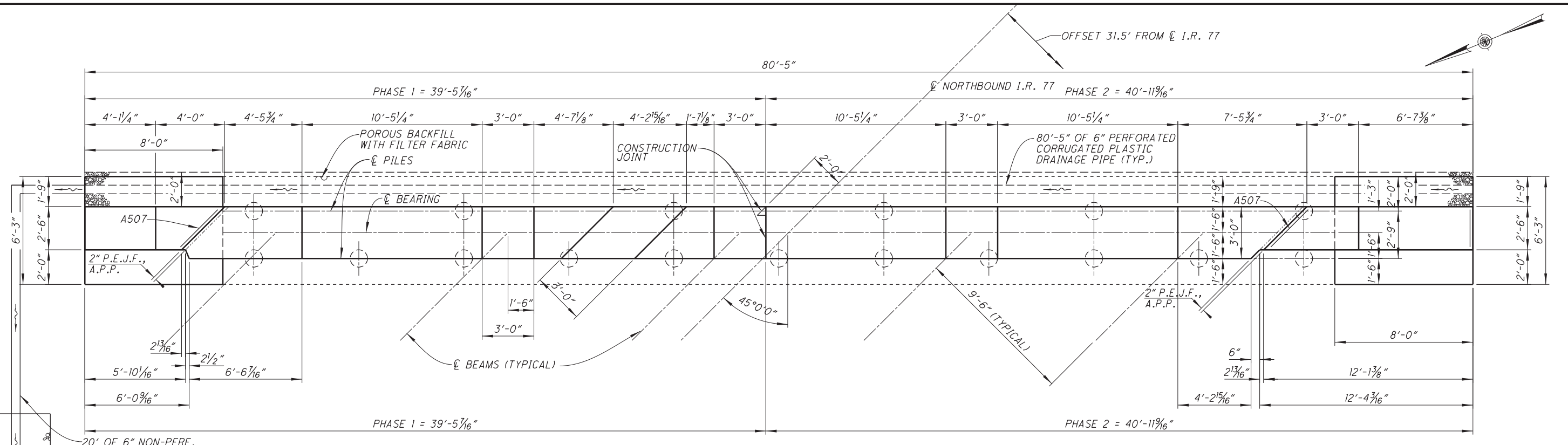
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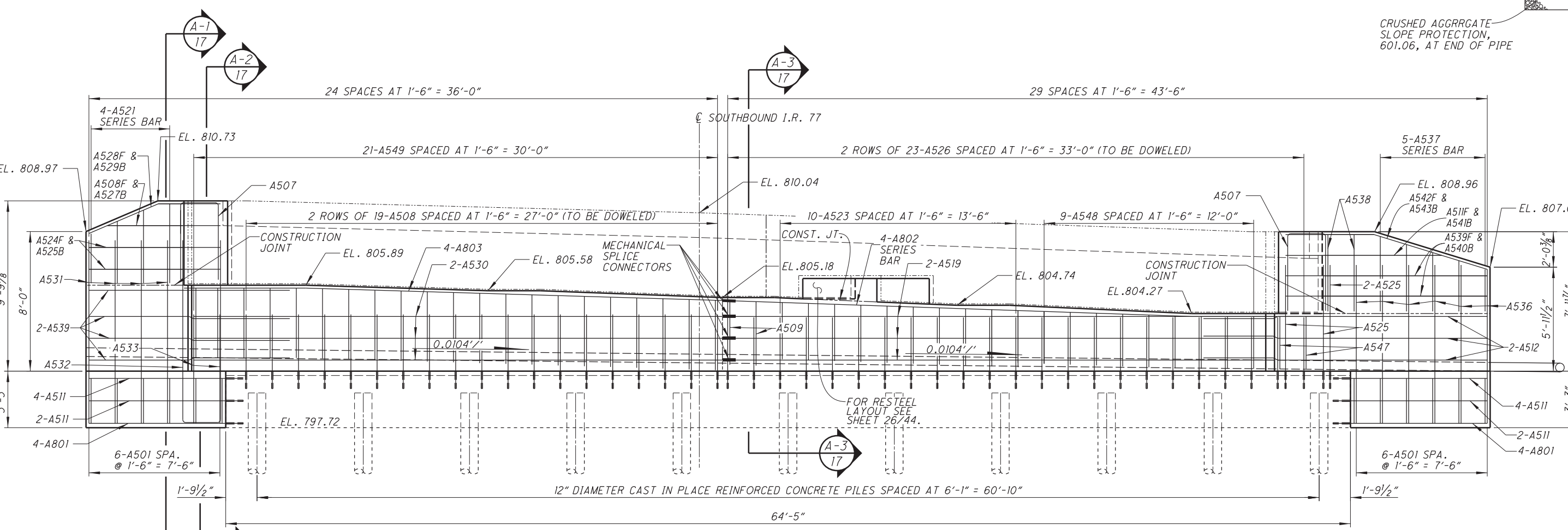
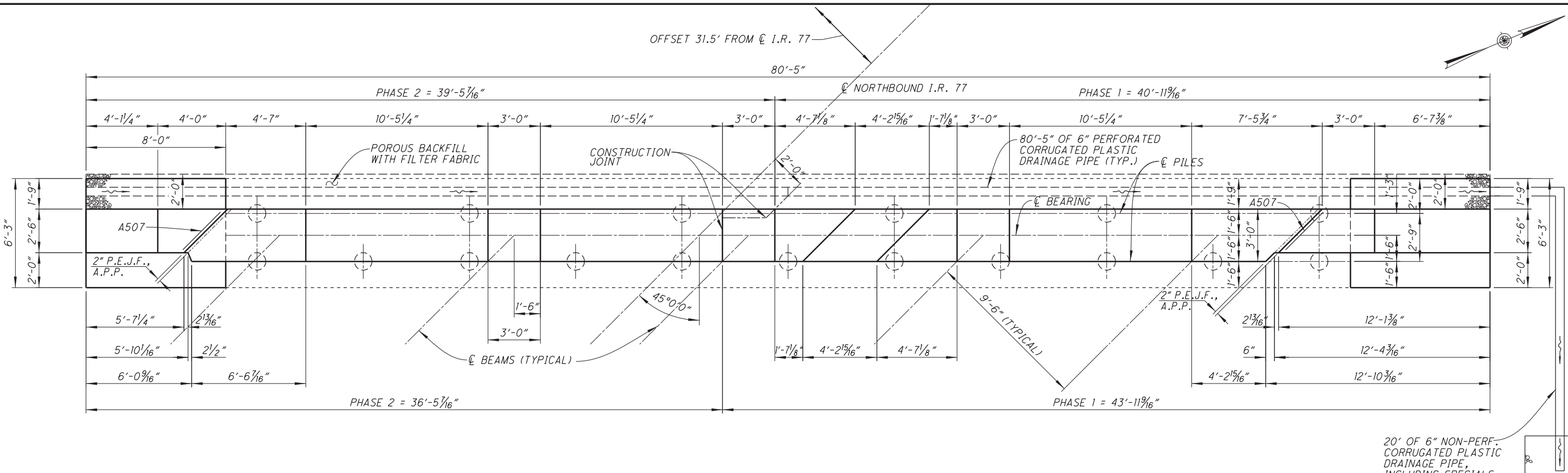
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DRAWN	CPS	REVISED	---
REVIEWED	JDR	DATE	09/13/16
DESIGN AGENCY	OHIO DEPARTMENT OF TRANSPORTATION, DISTRICT 5		
STRUCTURE FILE NUMBER	3003248		
PROPOSED FORWARD ABUTMENT			
BRIDGE NO. GUE-77-1474 (LEFT BRIDGE) OVER C.R. 35			
GUE-77-VAR			
PID No. 21631			
14 / 44			
62 / 129			

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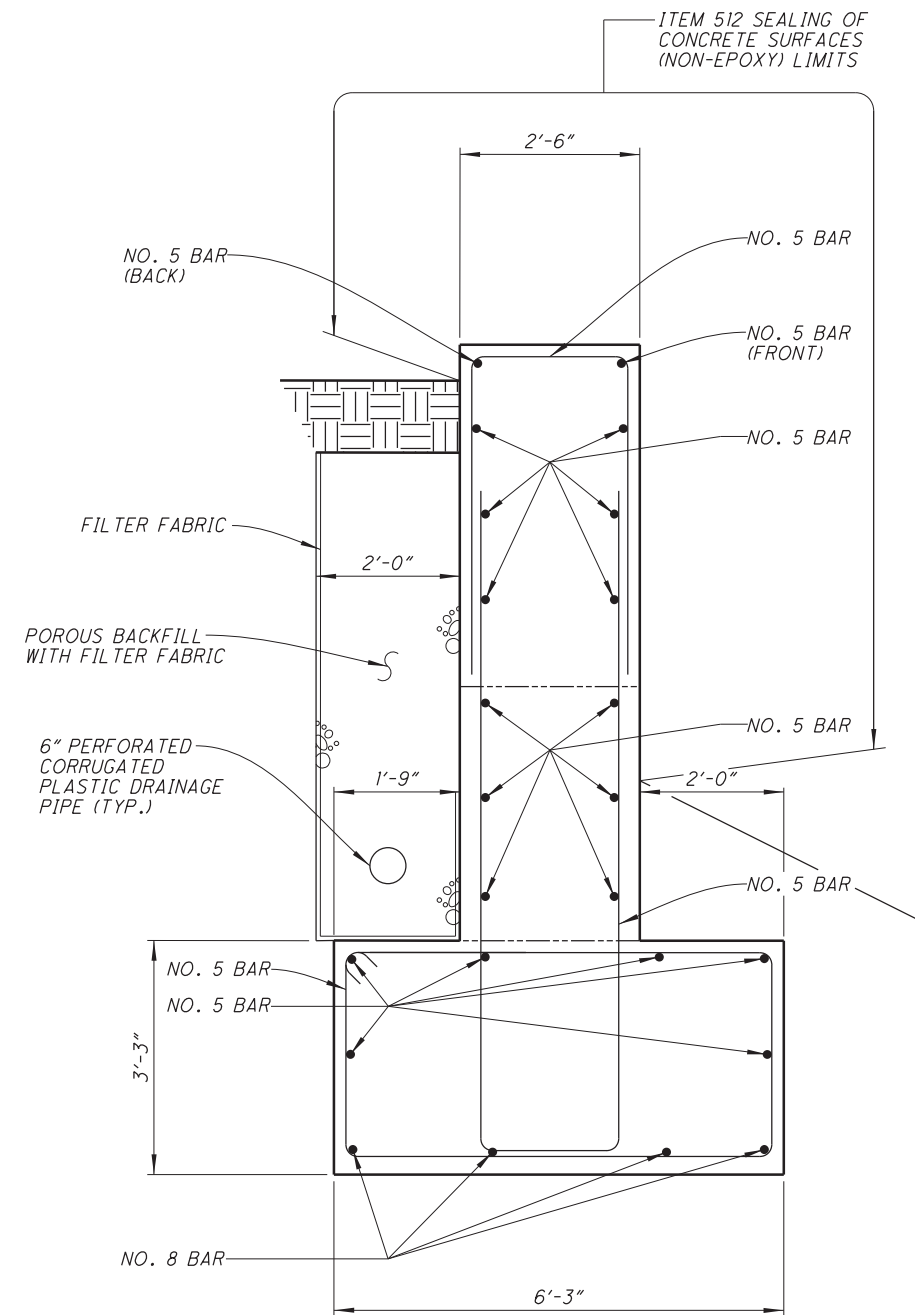
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DRAWN	CPS	REVISED	---
REVIEWED	JDR	DATE	09/13/16
DESIGN AGENCY	OHIO DEPARTMENT OF TRANSPORTATION, DISTRICT 5		
STRUCTURE FILE NUMBER	3003272		
PROPOSED REAR ABUTMENT			
BRIDGE NO. GUE-77-1474 (RIGHT BRIDGE) OVER C.R. 35			
GUE-77-VAR			
PID No. 21631			
15 / 44			
63 / 129			

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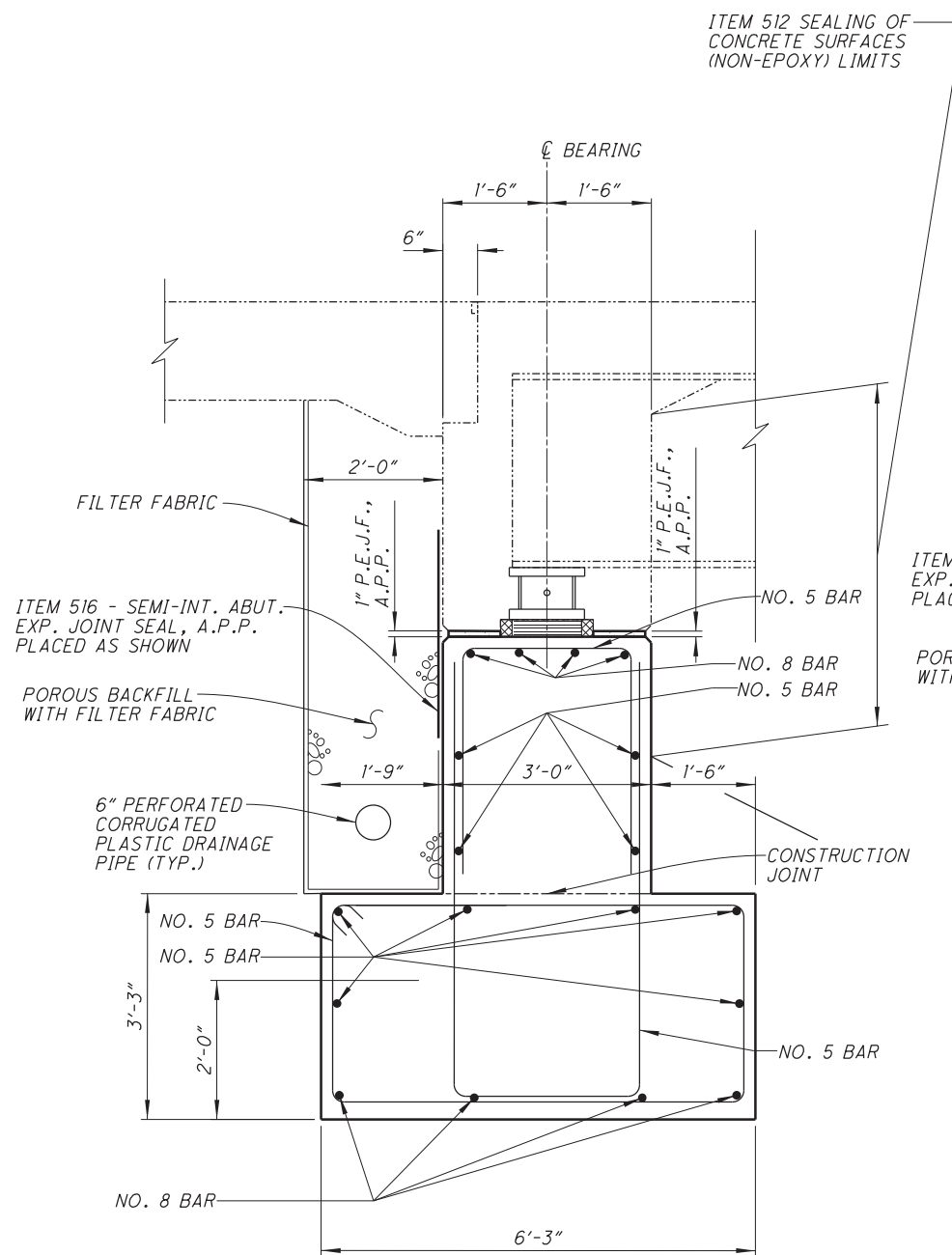


DESIGNED	CPS	CHECKED	TAG
DRAWN	CPS	REVISED	---
REVIEWED	JDR	DATE	09/13/16
DESIGN AGENCY	OHIO DEPARTMENT OF TRANSPORTATION, DISTRICT 5		
BRIDGE NO.	GUE-77-1474 (RIGHT BRIDGE)		
PID NO.	21631		
OVER C.R.	35		
PROPOSED FORWARD ABUTMENT			
STRUCTURE FILE NUMBER	3003272		
16	/ 44		
64	129		

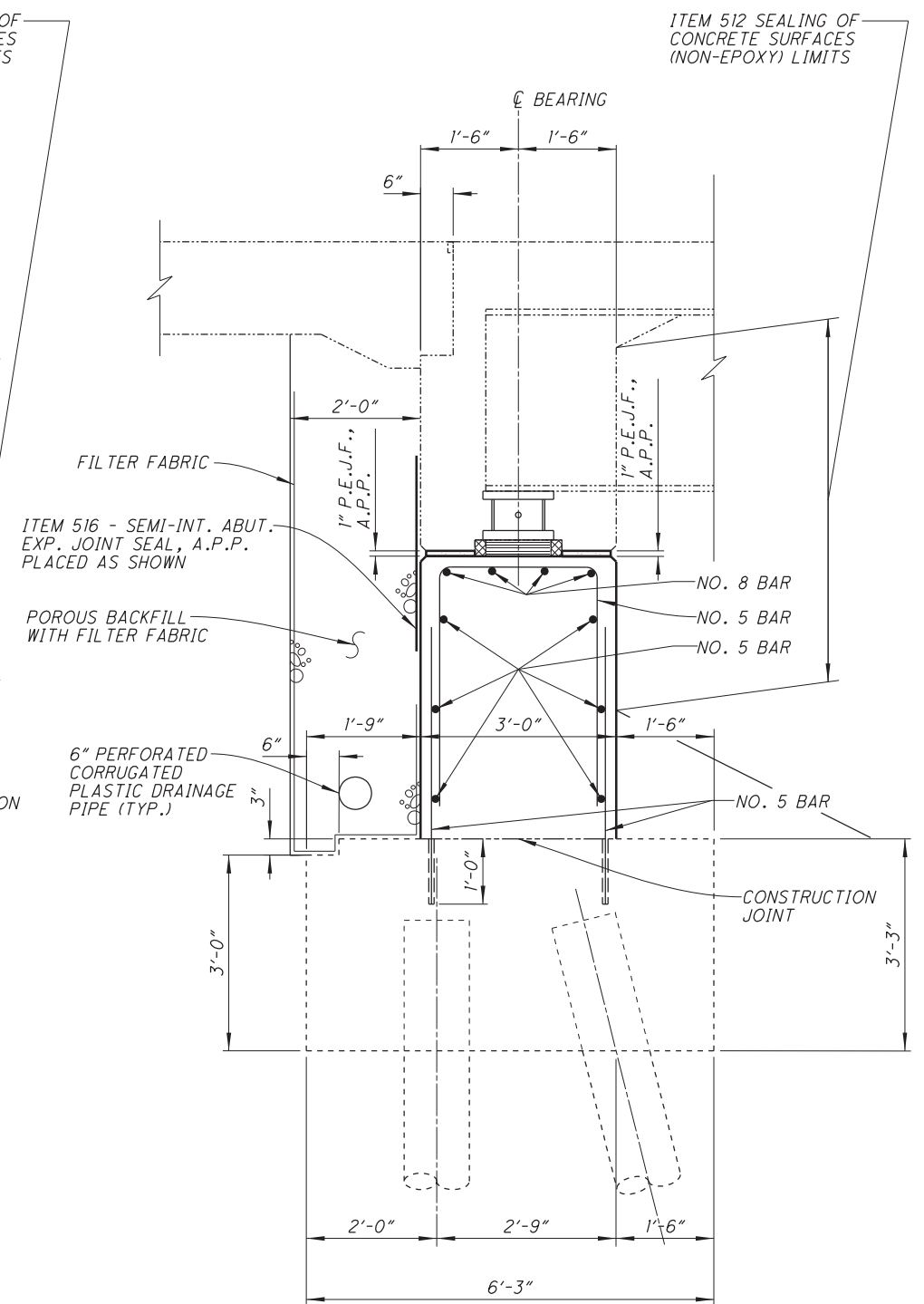
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SECTION A-1 A-1 A-1 A-1
13 14 15 16

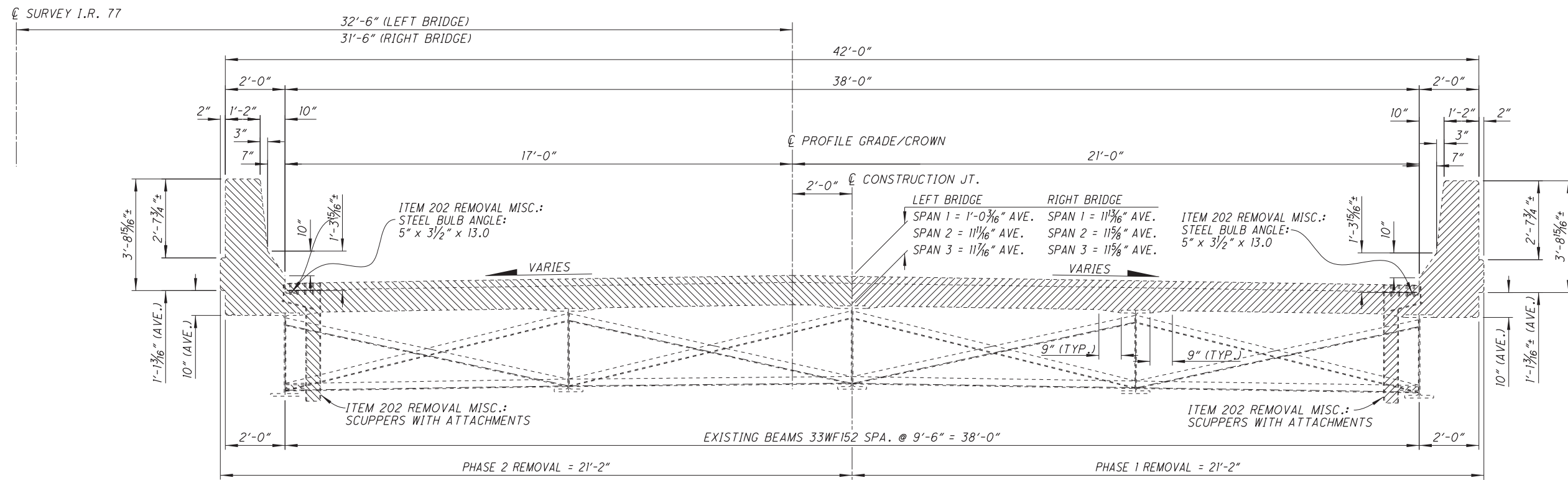


SECTION A-2 A-2 A-2 A-2
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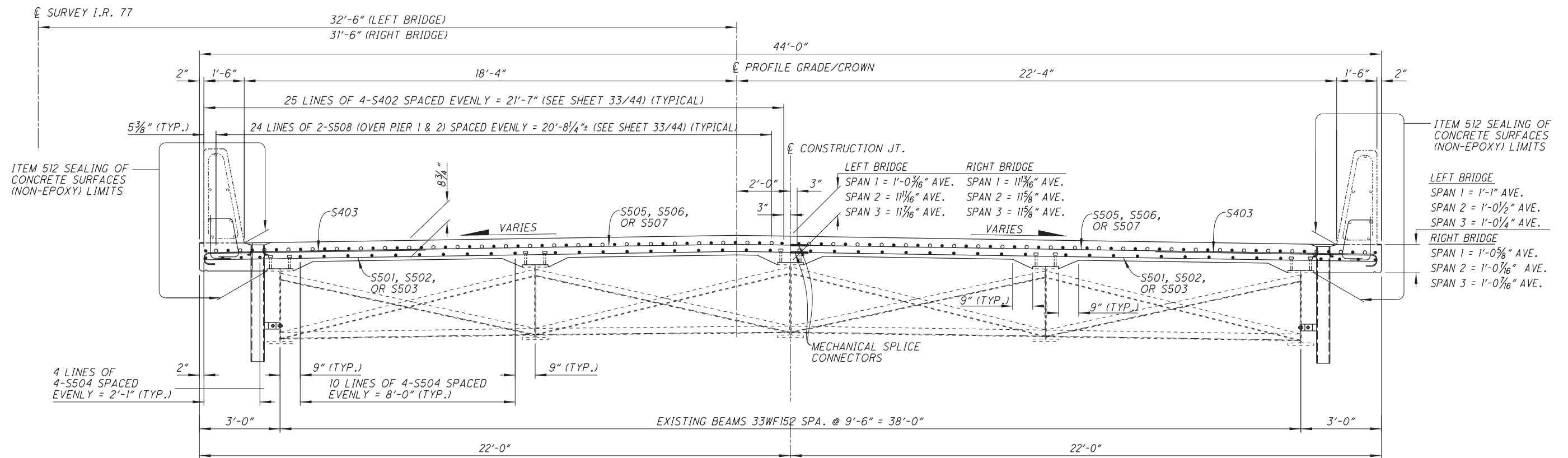
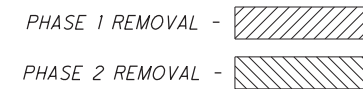
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13 14 15 16

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EXISTING TRANSVERSE SECTION

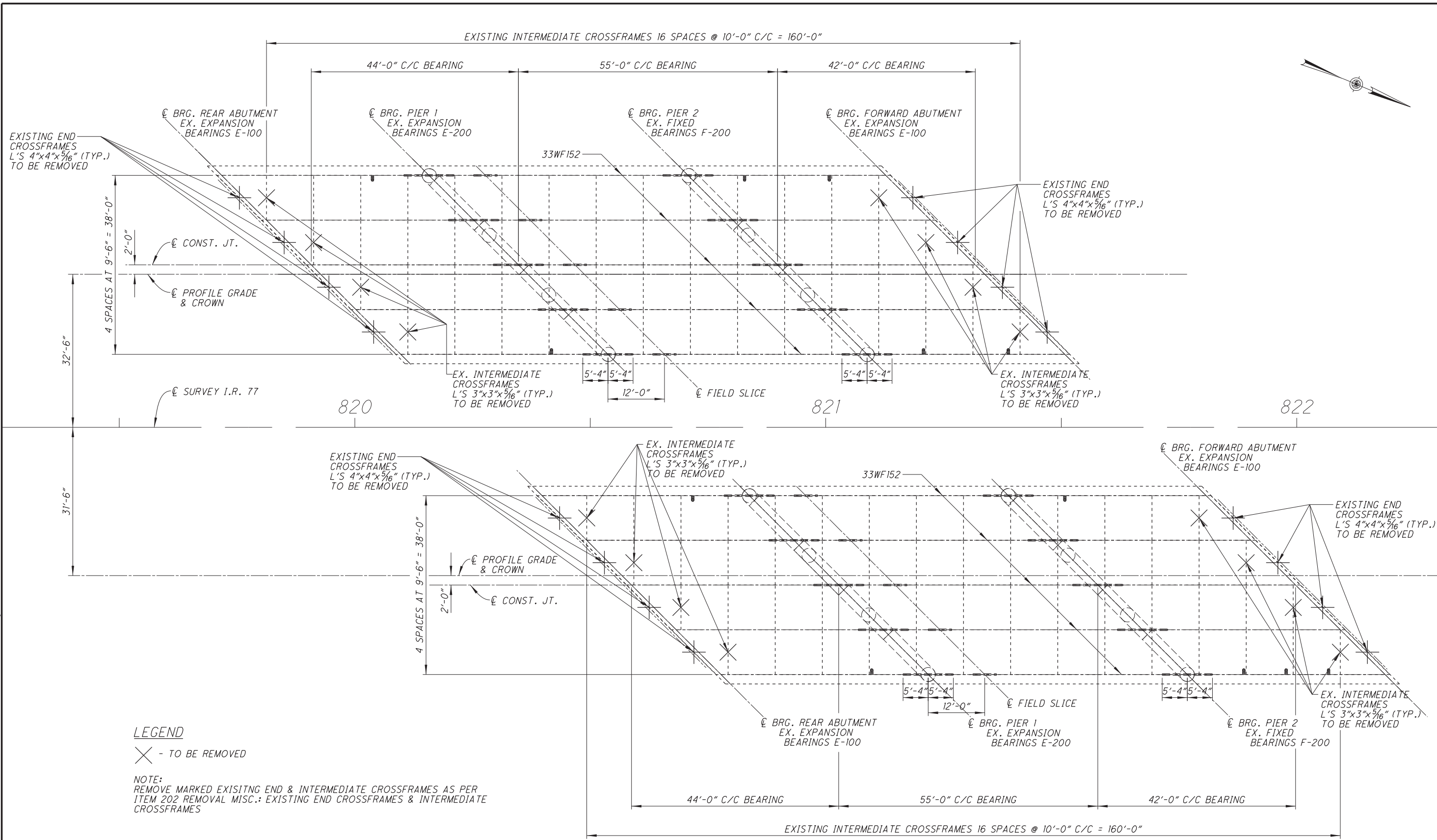
(RIGHT BRIDGE SHOWN, LEFT BRIDGE MIRRORED.)



PROPOSED TRANSVERSE SECTION

(RIGHT BRIDGE SHOWN, LEFT BRIDGE MIRRORED.)

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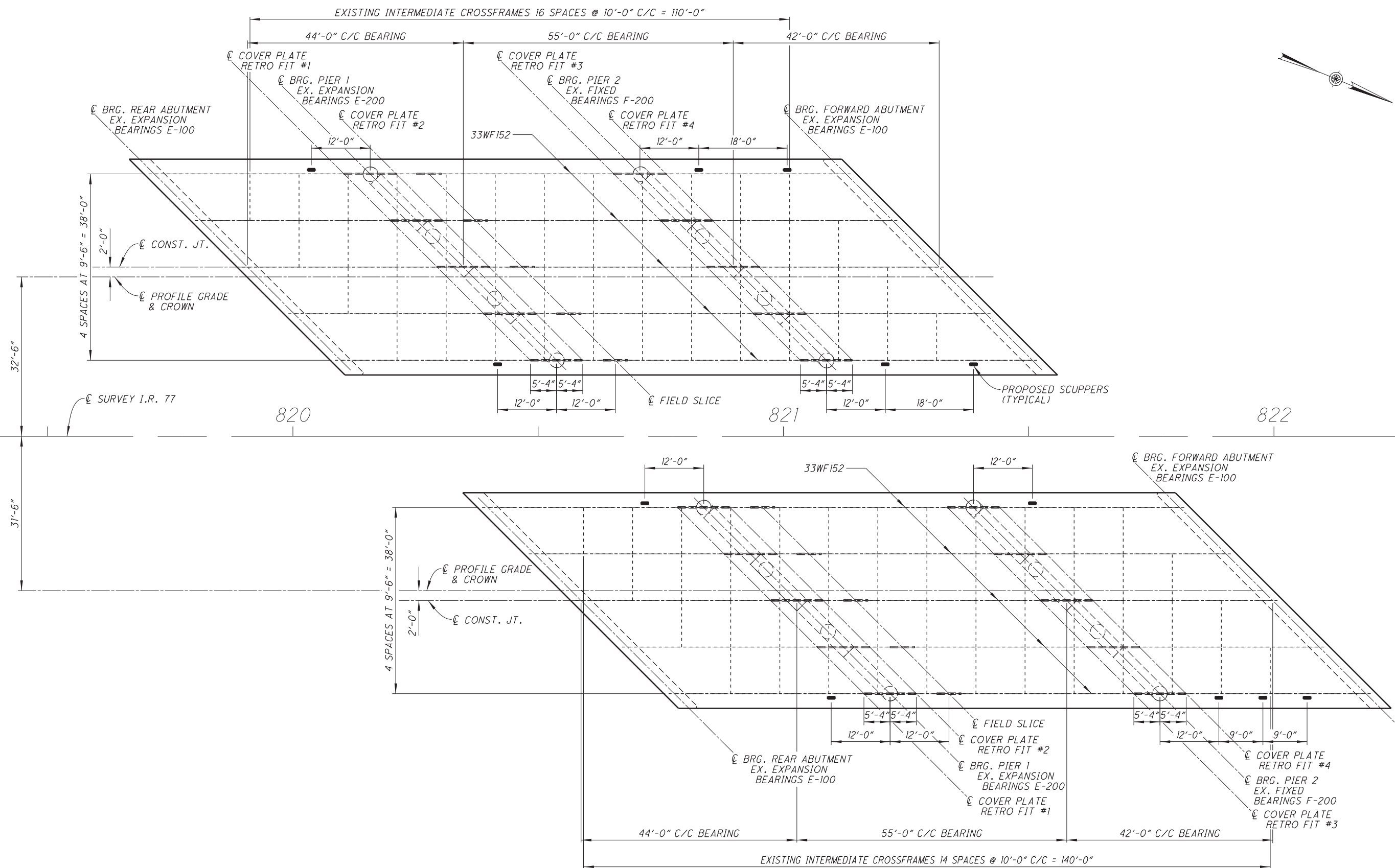
LEGEND

X - TO BE REMOVED

NOTE:
 REMOVE MARKED EXISTING END & INTERMEDIATE CROSSFRAMES AS PER
 ITEM 202 REMOVAL MISC.: EXISTING END CROSSFRAMES & INTERMEDIATE
 CROSSFRAMES

DESIGN AGENCY		OHIO DEPARTMENT OF TRANSPORTATION, DISTRICT 5	
REVIEWED	JDR	DATE	09/13/16
DRAWN	CPS	STRUCTURE FILE NUMBER	3003248/3003272
DESIGNED	CPS	CHECKED	TAG
EXISTING FRAMING PLAN DETAILS			
BRIDGE NO. GUE-77-1474 (LEFT & RIGHT BRIDGES)			
OVER C.R. 35			
GUE-77-VAR		PID No. 21631	
19 / 44		67 / 129	

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DESIGN AGENCY
OHIO DEPARTMENT OF
TRANSPORTATION, DISTRICT 5

DESIGNED	CPS	CHECKED	TAG
DRAWN	CPS	REVISED	---
REVIEWED	JDR	DATE	09/13/16
STRUCTURE FILE NUMBER		3003248/3003272	

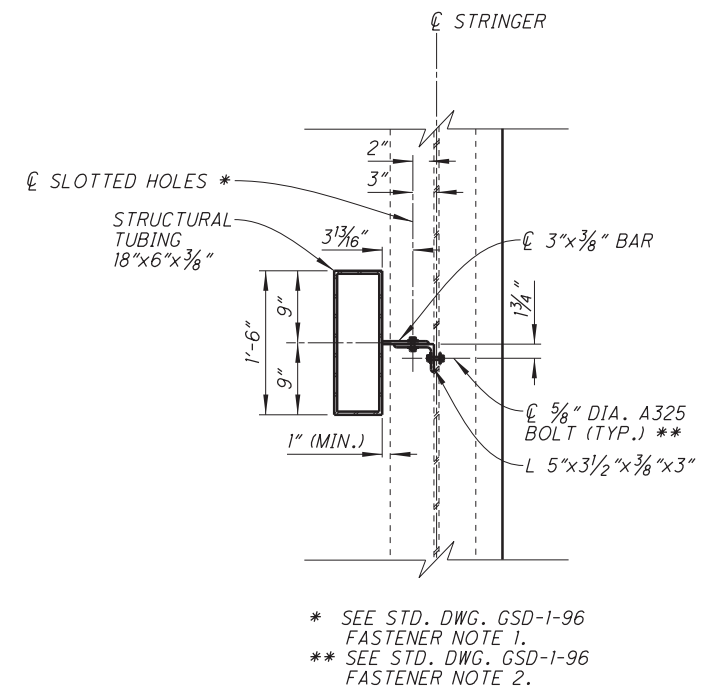
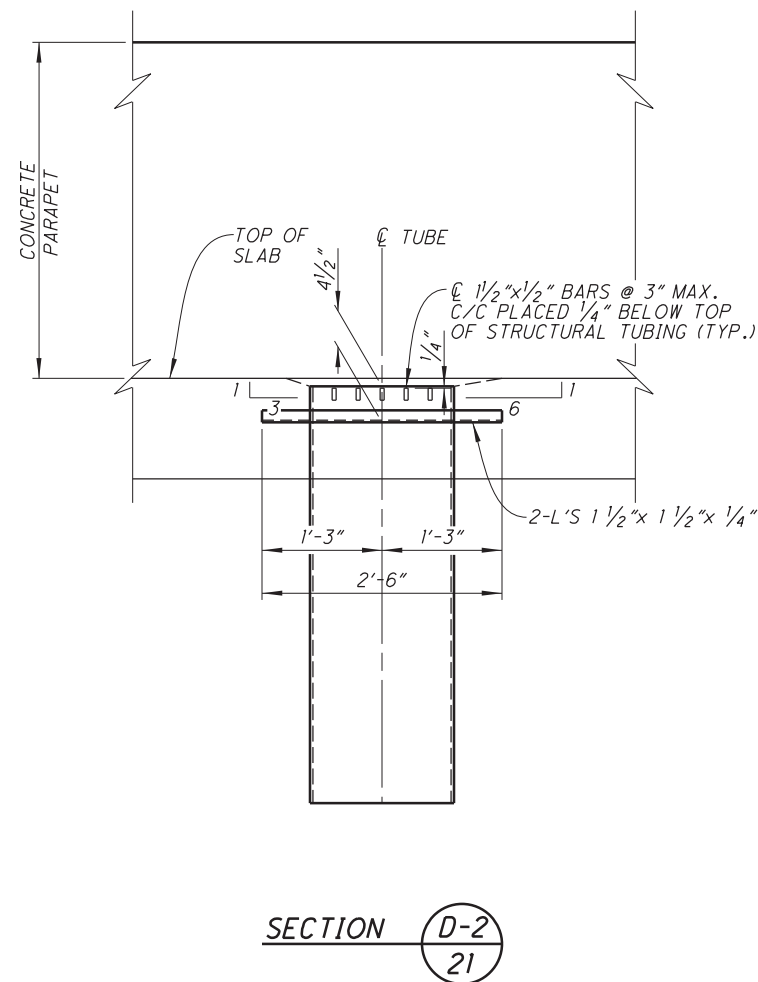
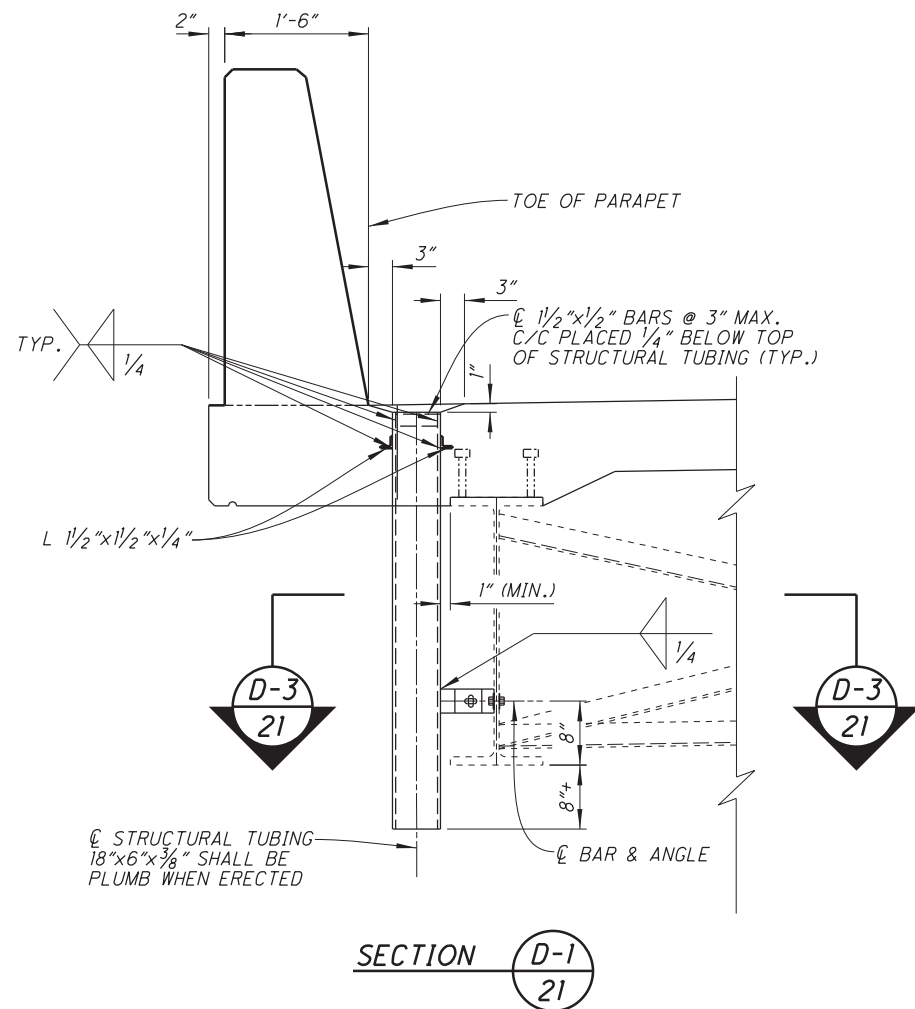
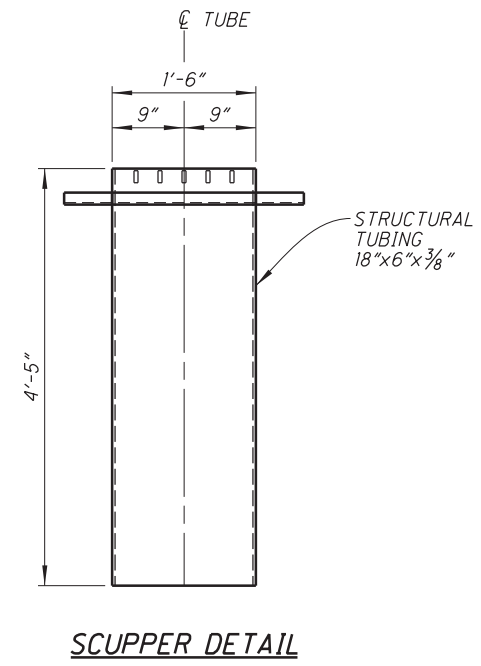
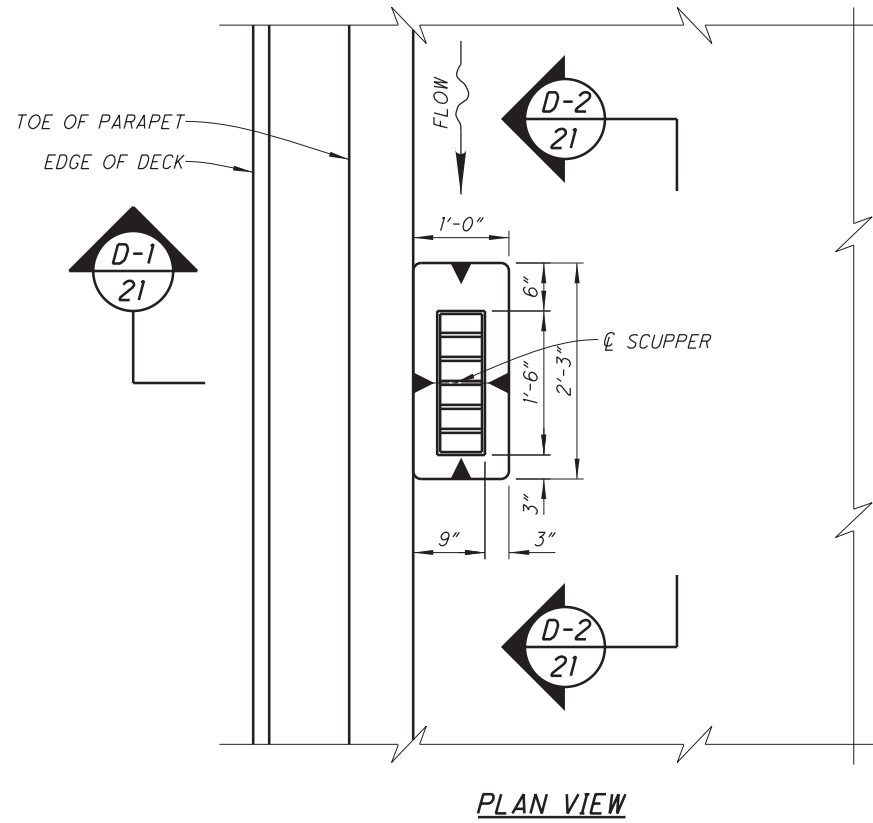
PROPOSED FRAMING PLAN DETAILS
BRIDGE NO. GUE-77-1474 (LEFT & RIGHT BRIDGES)
OVER C.R. 35

GUE-77-VAR
PID No. 21631

20/44

68
129

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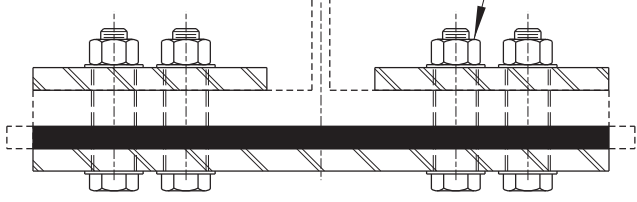
DESIGNED CPS	CHECKED TAG	DRAWN CPS	REVIEWED JDR	DATE 09/13/16	DESIGN AGENCY OHIO DEPARTMENT OF TRANSPORTATION, DISTRICT 5
				STRUCTURE FILE NUMBER 3003248/3003272	
SCUPPER DETAILS					
BRIDGE NO. GUE-77-1474 (LEFT & RIGHT BRIDGES) OVER C.R. 35					
GUE-77-VAR PID No. 21631					
21/44					
69 129					

NOTE:
PRIOR TO PLACEMENT OF THE PROPOSED FLANGE SPLICE PLATES,
THESE AREAS OF THE EXISTING BEAMS SHALL RECEIVE COMPLETE SURFACE
PREPARATION AND A COMPLETE COAT OF PRIME PAINT AS PER 514.

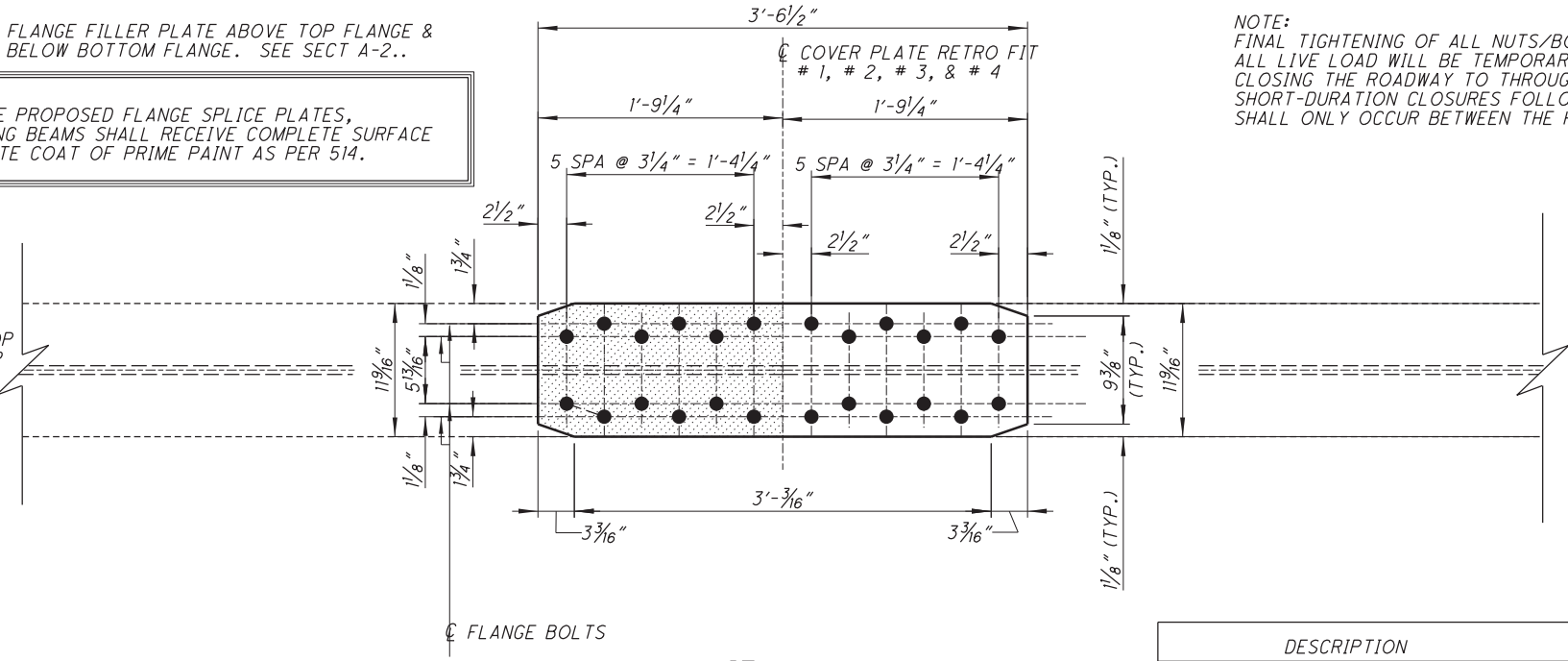
FLANGE FILLER PLATE ABOVE TOP FLANGE &
BELOW BOTTOM FLANGE. SEE SECT A-2..

NOTE:
FINAL TIGHTENING OF ALL NUTS/BOLTS SHALL BE PERFORMED UNDER DEAD LOADING ONLY.
ALL LIVE LOAD WILL BE TEMPORARILY WITHHELD, FOR THIS PURPOSE, BY INTERMITTENTLY
CLOSING THE ROADWAY TO THROUGH TRAFFIC. THE CONTRACTOR WILL USE INTERMITTENT
SHORT-DURATION CLOSURES FOLLOWING STD. CONST. DWG. MT-99.60. THIS FULL CLOSURE
SHALL ONLY OCCUR BETWEEN THE HOURS OF MIDNIGHT AND 5:00 AM.

NOTE:
EXCLUDE THE BOLT THREADS FROM THE SHEAR
PLANES. (THE BOLT SHEAR STRENGTH FOR
THE FLANGE AND WEB SPLICES HAS BEEN
DESIGNED ASSUMING THAT THE THREADS
ARE EXCLUDED FROM THE SHEAR PLANES.)
ALL BOLTS USED SHALL BE 1/8" DIAMETER.
ALL BOLT HOLES SHALL BE 3/16" DIAMETER.
BOLT SPECIFICATIONS SHALL CONFORM TO
A325, TYPE 1.



PARTIAL SECTION
(AT C OF SPLICE)
(NOT TO SCALE)

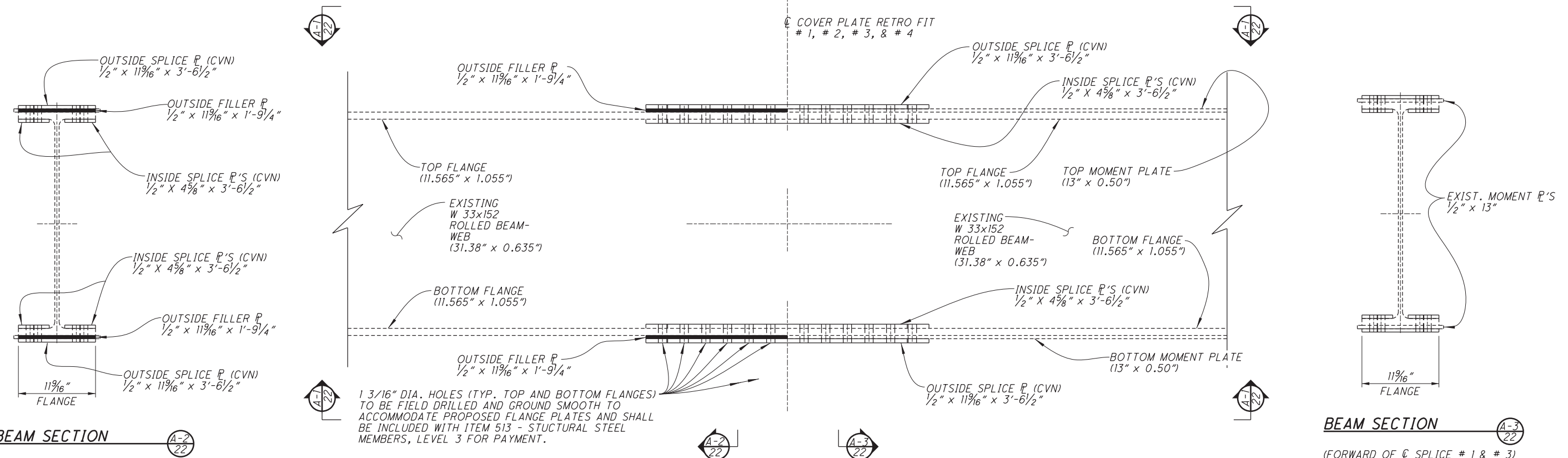


VIEW (A-1)
(TOP AND BOTTOM FLANGE)

DESCRIPTION	QUANTITY	SIZE	WEIGHT
INSIDE FLANGE PLATES (CVN)	160	1/2" X 4 7/16" X 3'-6 1/2"	
OUTSIDE FLANGE PLATES (CVN)	80	1/2" X 11 9/16" X 3'-6 1/2"	
OUTSIDE FLANGE FILLER PLATES	80	1/2" X 11 9/16" X 1'-9 1/4"	
SPLICE MATERIAL (BOLTS, WASHERS, NUTS)			
TOTAL =			13,272 LBS

NOTE: THE ABOVE LENGTHS & WEIGHTS ARE FOR ESTIMATING PURPOSES ONLY.
FINAL QUANTITIES FOR STRUCTURAL STEEL SHALL BE DETERMINED BY SHOP DRAWINGS.
THE ABOVE QUANTITIES SHALL BE INCLUDED FOR PAYMENT PER LUMP SUM IN ITEM 513
STRUCTURAL STEEL MEMBERS, LEVEL 3.

NOTE: ALL WORK SHOWN ON THIS SHEET SHALL BE INCLUDED FOR PAYMENT PER LUMP SUM IN ITEM 513
STRUCTURAL STEEL MEMBERS, LEVEL 3.



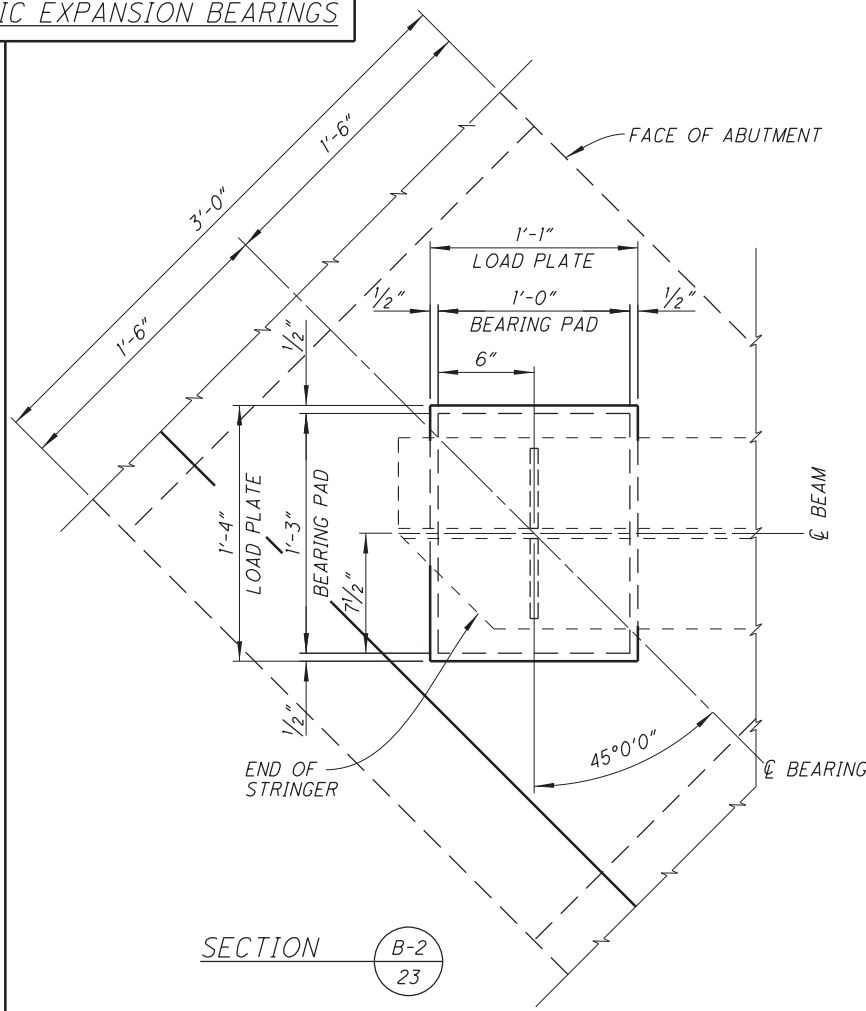
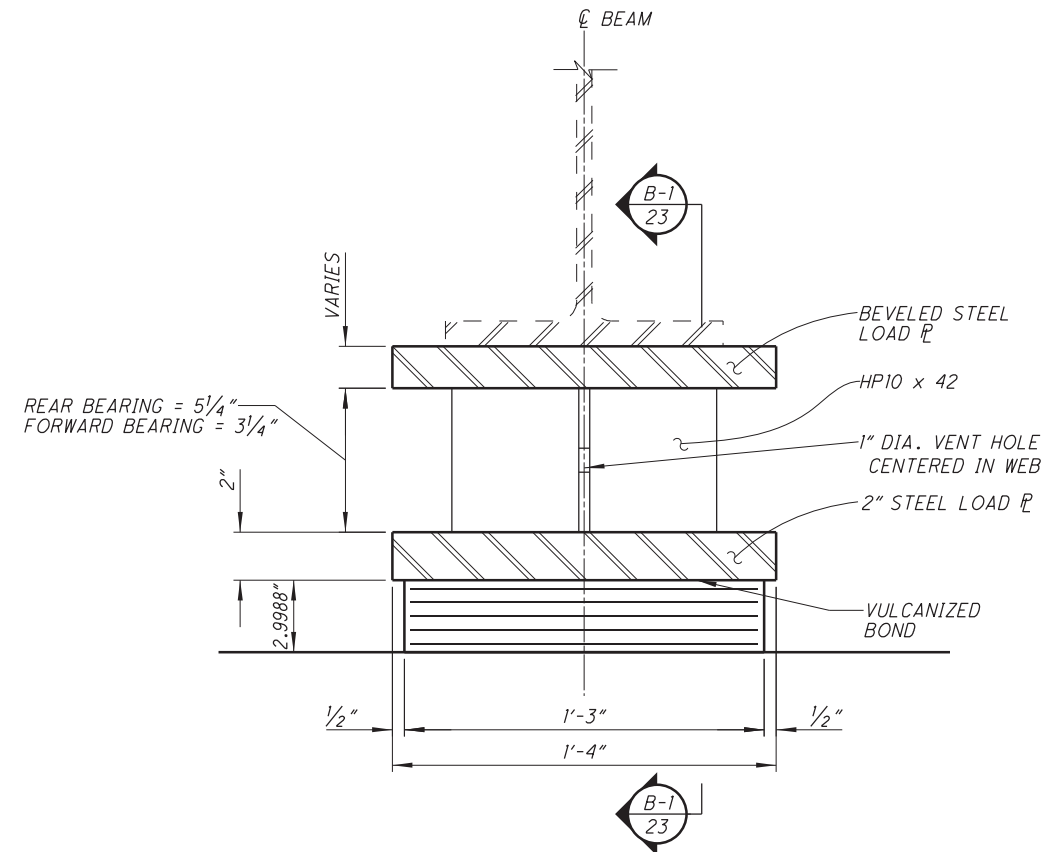
BEAM SECTION (A-2)
(REAR OF C SPLICE # 1 & # 3)
(FORWARD OF C SPLICE # 2 & # 4)

BEAM SECTION (A-3)
(FORWARD OF C SPLICE # 1 & # 3)
(REAR OF C SPLICE # 2 & # 4)

BOLTED SPLICE DETAIL
(SEE FRAMING PLAN FOR LOCATIONS IN SPANS 1, 2, & 3)

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LAMINATED ELASTOMERIC EXPANSION BEARINGS



BASIS OF PAYMENT:
THE UNIT BID PRICE SHALL INCLUDE ALL MATERIALS, LABOR, TESTING AND INCIDENTALS NECESSARY TO FURNISH AND INSTALL LAMINATED ELASTOMERIC BEARINGS, EITHER FIXED OR EXPANSION. PAYMENT WILL BE MADE AT THE CONTRACT PRICE BID FOR ITEM 516, EACH, ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE).

REAR ABUTMENT BEARING PAD: 1'-3" x 1'-0" x 2.9985" (50 DUROMETER)
BEVELED STEEL LOAD PLATE: 1'-4" x 1'-1" x (1.50" & 2.00")
STEEL LOAD PLATE: 1'-4" x 1'-1" x 2.0"

FWD. ABUTMENT BEARING PAD: 1'-3" x 1'-0" x 2.9985" (50 DUROMETER)
BEVELED STEEL LOAD PLATE: 1'-4" x 1'-1" x (1.50" & 2.00")
STEEL LOAD PLATE: 1'-4" x 1'-1" x 2.0"

ELASTOMERIC BEARING PAD DESIGN DATA			
LOCATION	DL (K)	LL (K)	DL & LL (K)
REAR ABUTMENT	64	50	114
FWD. ABUTMENT	63	50	113

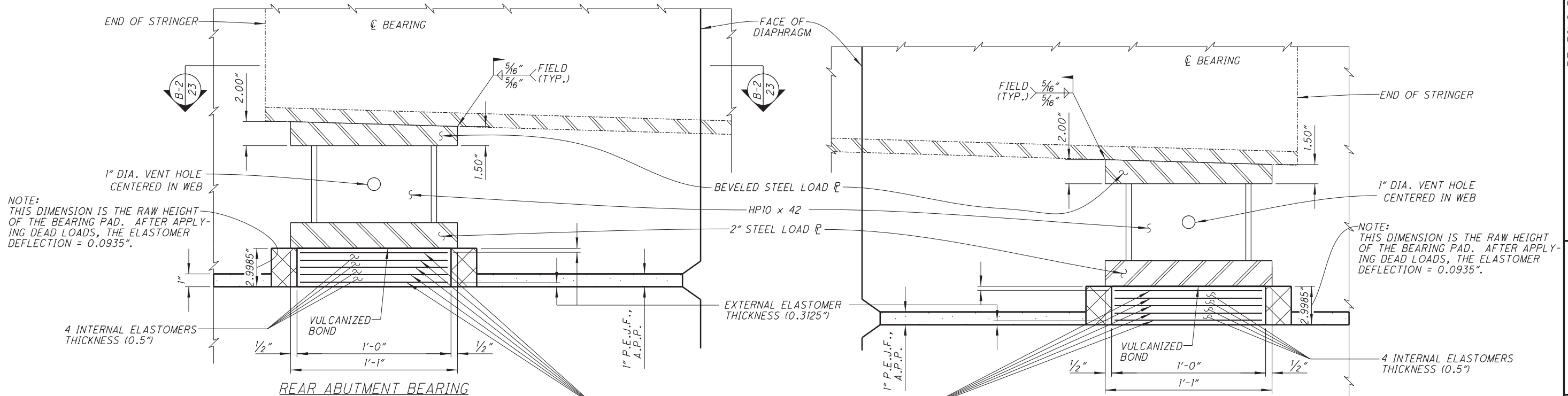
LOAD PLATE:
THE STEEL LOAD PLATES SHALL BE MADE OF A709 STEEL. THE STEEL LOAD PLATE SHALL BE BONDED BY VULCANIZATION TO THE ELASTOMER DURING THE MOLDING PROCESS.

WELDING
WELDING: CONTROL WELDING SO THAT THE PLATE TEMPERATURE AT THE ELASTOMER BONDED SURFACE DOES NOT EXCEED 300 DEGREES F AS DETERMINED BY USE OF PYROMETRIC STICKS OR OTHER TEMPERATURE MONITORING DEVICES.

BEARING REPOSITIONING
BEARING REPOSITIONING: IF THE GIRDERS ARE ERECTED AT AN AMBIENT TEMPERATURE HIGHER THAN 80 DEGREES F OR LOWER THAN 40 DEGREES F AND THE BEARING SHEAR DEFLECTION EXCEEDS 1/6 OF THE BEARING HEIGHT AT 60 DEGREES F (+/-) 10 DEGREES F, RAISE THE BEAMS OR GIRDERS TO ALLOW THE BEARINGS TO RETURN TO THEIR UNDEFORMED SHAPE AT 60 DEGREES F (+/-) 10 DEGREES F.

ELASTOMERIC BEARINGS
ELASTOMERIC BEARINGS: THE ELASTOMER SHALL HAVE A HARDNESS OF 50 DUROMETER. THE BEARINGS WERE DESIGNED IN ACCORDANCE WITH SECTION 14.7.5 (METHOD A) OF THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS. PERFORM THE LONG-TERM COMPRESSION PROOF LOAD TEST IN ACCORDANCE WITH THE AASHTO STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES, DIVISION II, SECTION 18.7.2.6 AND 18.7.4.5.

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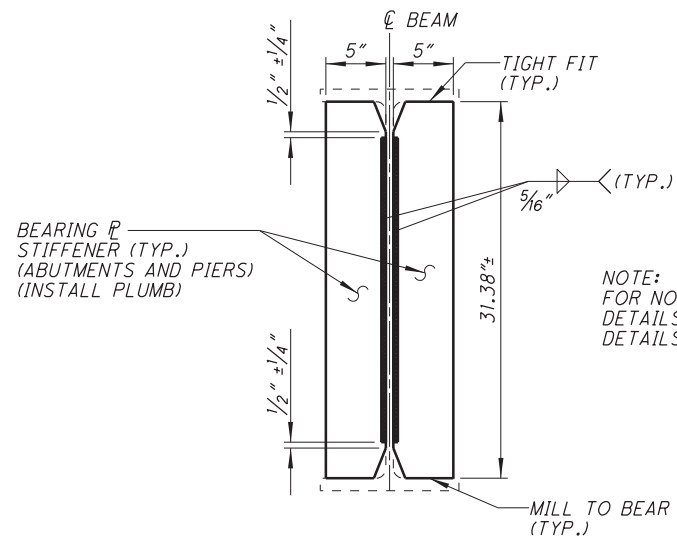
NOTE: THIS DIMENSION IS THE RAW HEIGHT OF THE BEARING PAD. AFTER APPLYING DEAD LOADS, THE ELASTOMER DEFLECTION = 0.0935".

NOTE: THIS DIMENSION IS THE RAW HEIGHT OF THE BEARING PAD. AFTER APPLYING DEAD LOADS, THE ELASTOMER DEFLECTION = 0.0935".

SECTION B-1 / 23

SECTION B-1 / 23

DESIGN AGENCY: OHIO DEPARTMENT OF TRANSPORTATION, DISTRICT 5
 DATE: 09/13/16
 REVIEWED: JDR
 DRAWN: CPS
 DESIGNED: CPS
 CHECKED: TAG
 STRUCTURE FILE NUMBER: 3003248/3003272
 BEARING DETAILS
 BRIDGE NO. GUE-77-1474 (LEFT & RIGHT BRIDGES)
 OVER C.R. 35
 GUE-77-VAR
 PID No. 21631
 23/44
 71/129



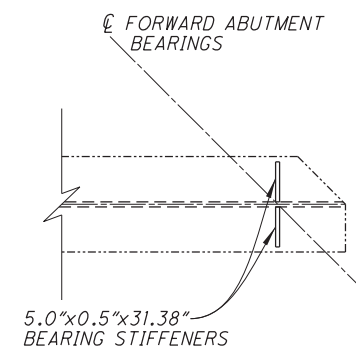
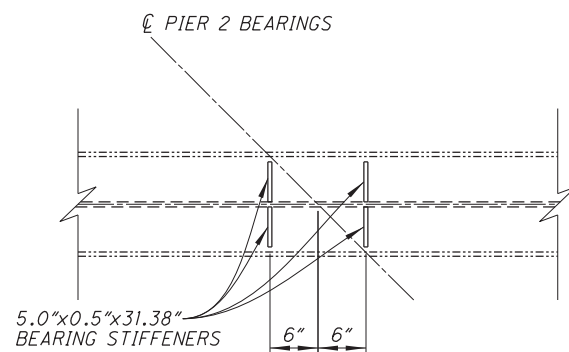
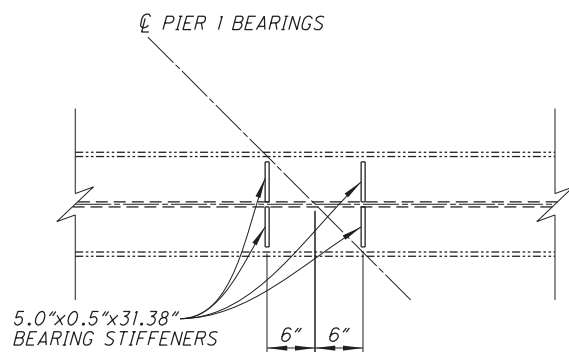
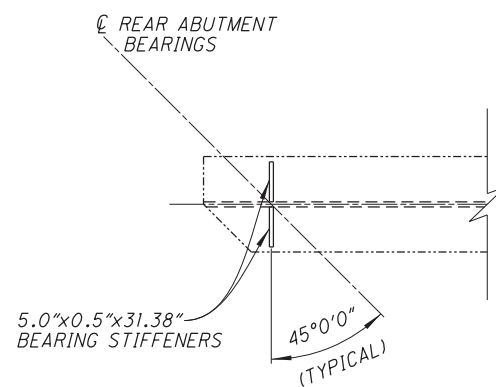
BEARING STIFFENERS DETAILS

NOTE:
FOR NOTES AND ADDITIONAL
DETAILS INCLUDING WELDING
DETAILS SEE STD. DWG. GSD-1-96.

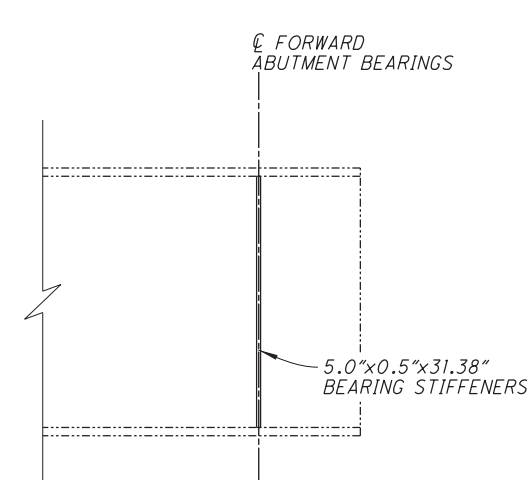
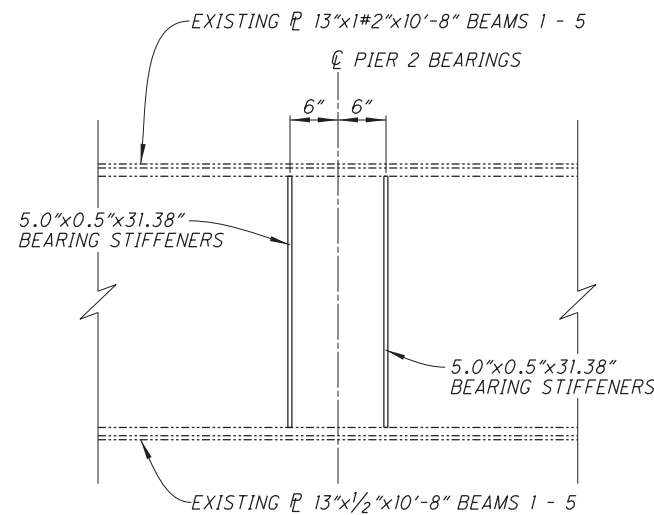
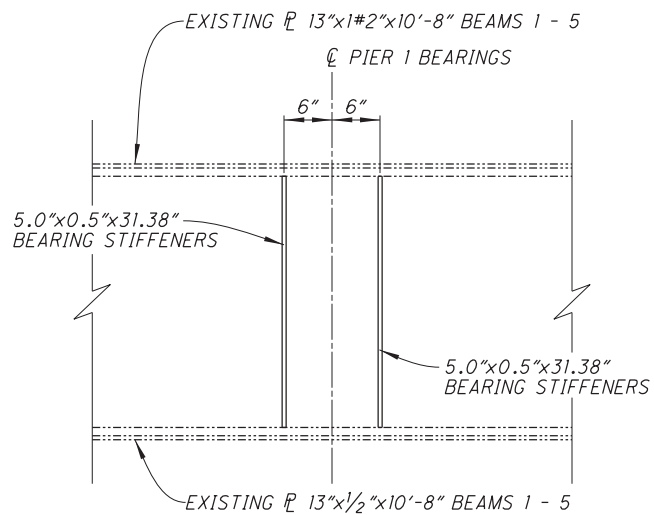
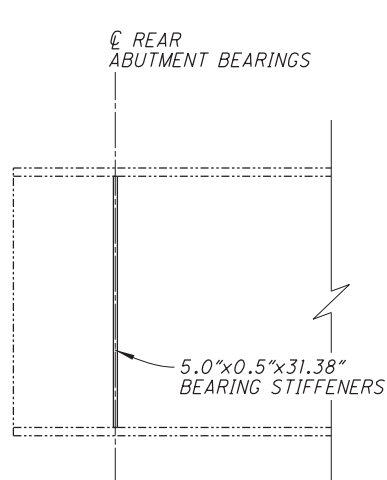
ITEM 513 STRUCTURAL STEEL MEMBERS, LEVEL UF, AS PER PLAN		
STIFFENER P	NUMBER	POUNDS
5.0"x0.500"x31.38"	120	2,671
TOTAL		2,671

FINAL QUANTITIES FOR ITEM 513 STRUCTURAL STEEL MEMBERS, LEVEL UF, AS PER PLAN SHALL BE DETERMINED IN THE FIELD.

PROPOSED BEARING STIFFENERS LOCATIONS
BEAMS 1 - 5 LEFT AND RIGHT BRIDGES



PLAN VIEW

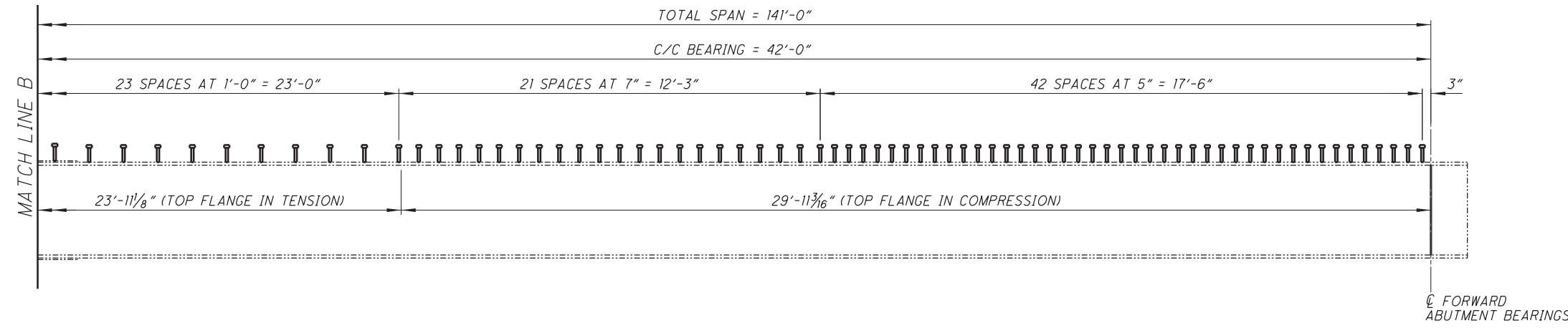
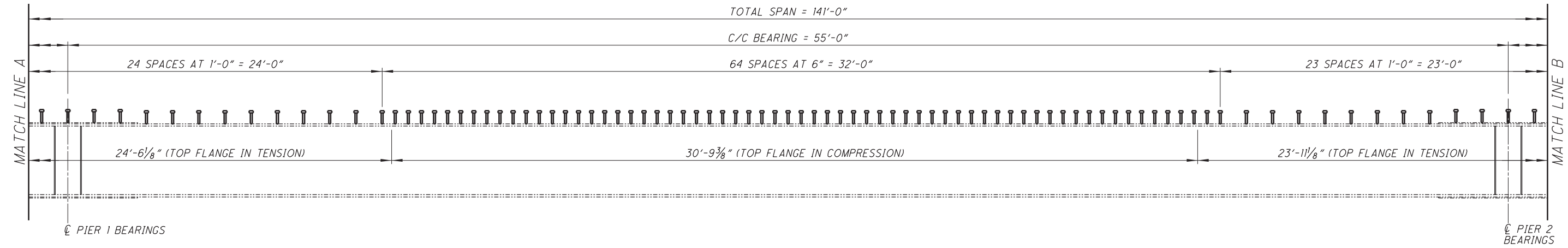
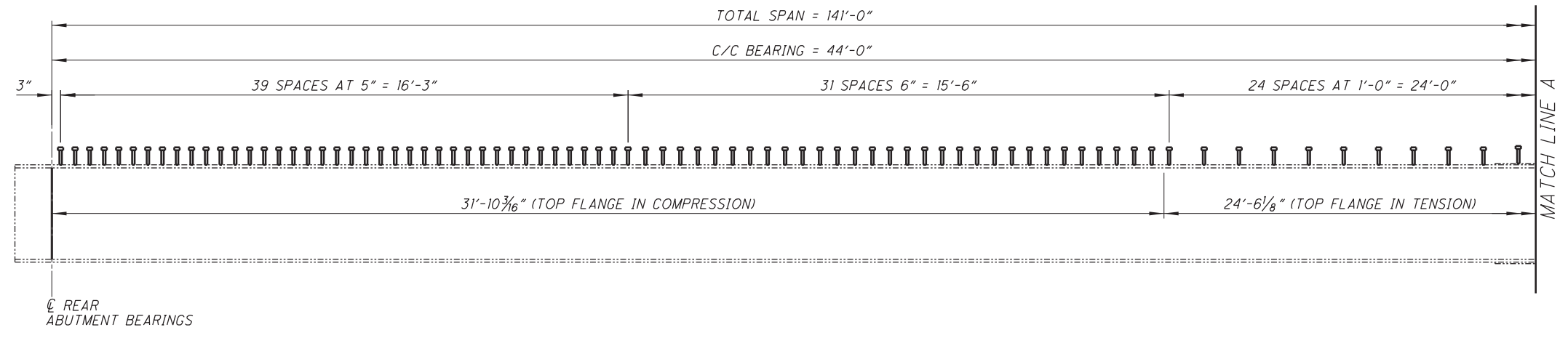


ELEVATION VIEW

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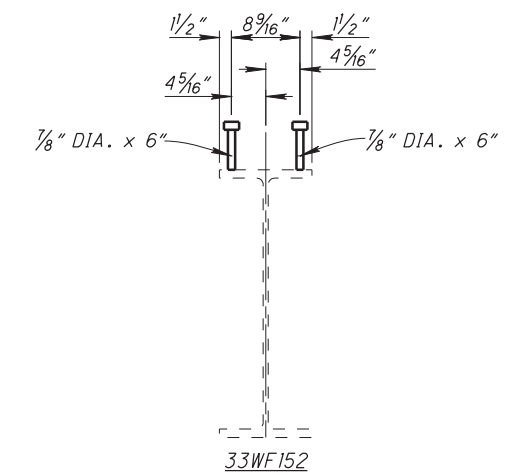
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PROPOSED BEARING STIFFENER DETAILS											
BRIDGE NO. GUE-77-1474 (LEFT & RIGHT BRIDGES)											
OVER C.R. 35											
GUE-77-VAR						PID No. 21631					
24/44											
72 129											

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LONGITUDINAL SHEAR CONNECTOR SPACING

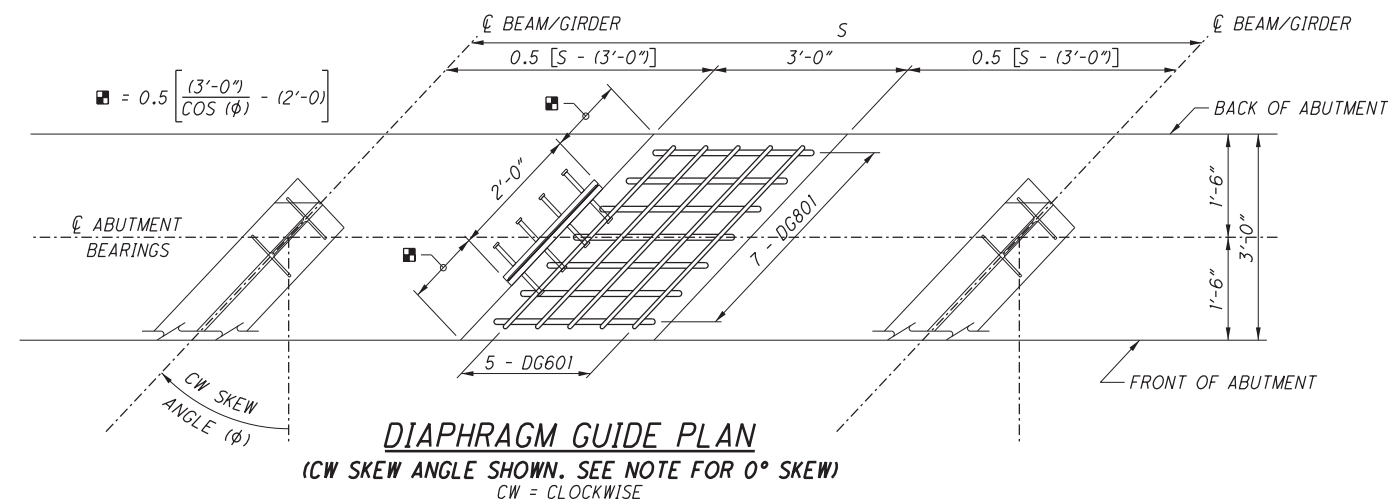
NOTES:
 WELDED ATTACHMENT OF SUPPORTS FOR CONCRETE DECK FINISHING MACHINE TO AREAS OF THE FASCIA STRINGER FLANGES DESIGNATED "COMPRESSION". DO NOT WELD ATTACHMENTS TO AREAS DESIGNATED "TENSION". FILLET WELDS TO COMPRESSION FLANGES SHALL BE AT LEAST 1" FROM EDGE OF FLANGE, BE NO MORE THAN 2" LONG, AND BE AT LEAST 1/4" FOR THICKNESSES UP TO 3/4" OR 5/16" FOR GREATER THAN 3/4" THICK.



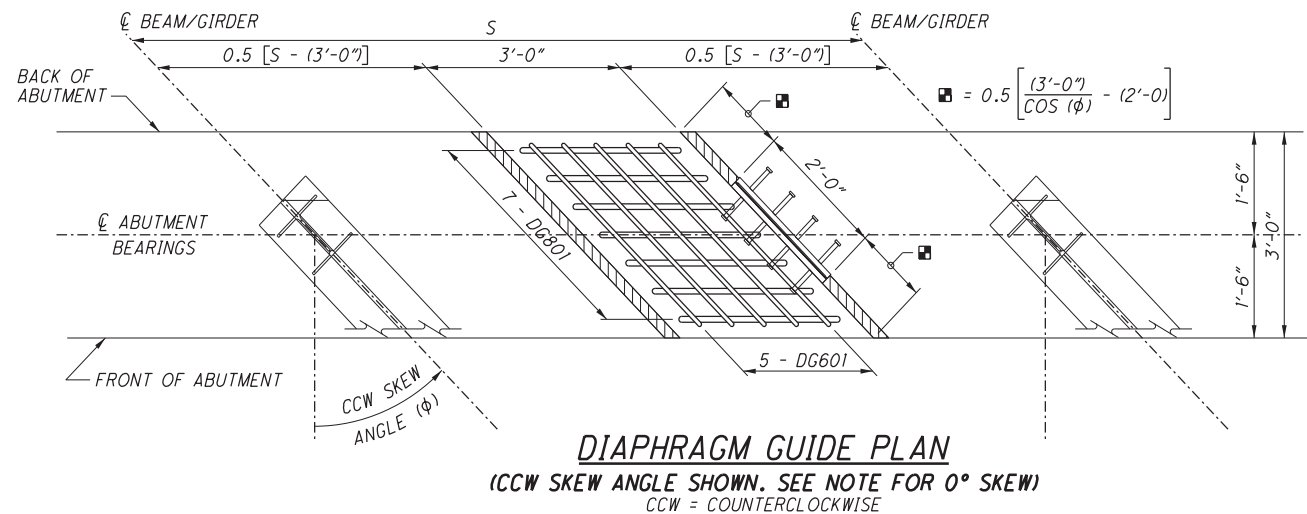
LONGITUDINAL SHEAR CONNECTOR DETAIL

DESIGNED		CPS	CHECKED	TAG
DRAWN		CPS	REVISED	---
REVIEWED	JDR	DATE	09/13/16	STRUCTURE FILE NUMBER
3003248/3003272		DESIGN AGENCY	OHIO DEPARTMENT OF TRANSPORTATION, DISTRICT 5	
SHEAR CONNECTOR DETAILS				
BRIDGE NO. GUE-77-1474 (LEFT & RIGHT BRIDGES) OVER C.R. 35				
GUE-77-VAR		PID No. 21631		
25/44		73 129		

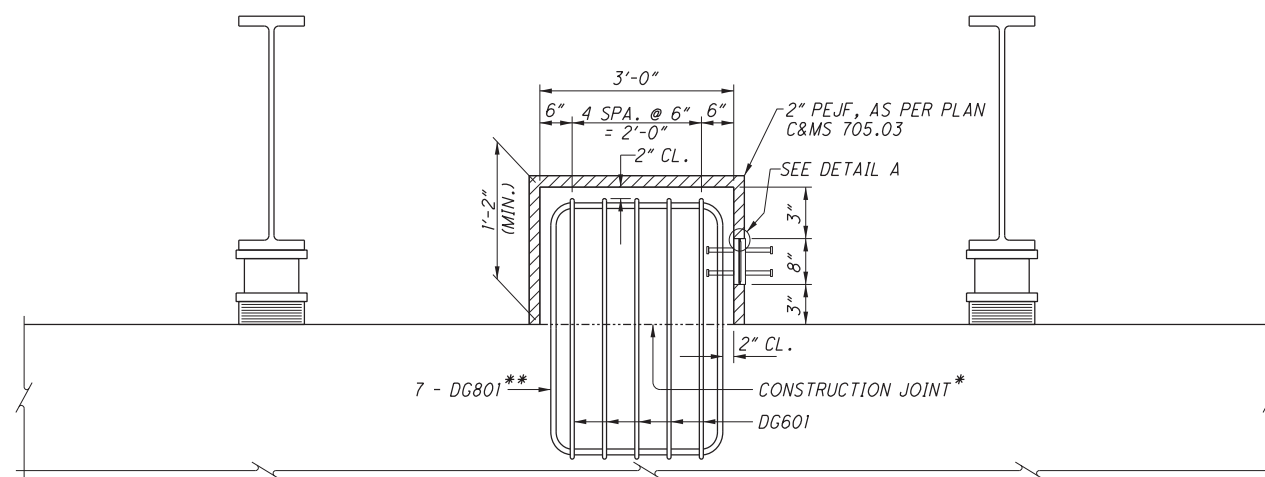
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DIAPHRAGM GUIDE PLAN
(CW SKEW ANGLE SHOWN. SEE NOTE FOR 0° SKEW)
CW = CLOCKWISE

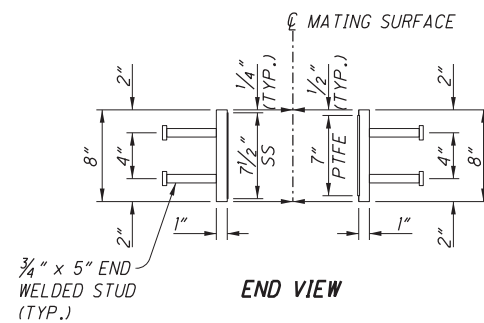
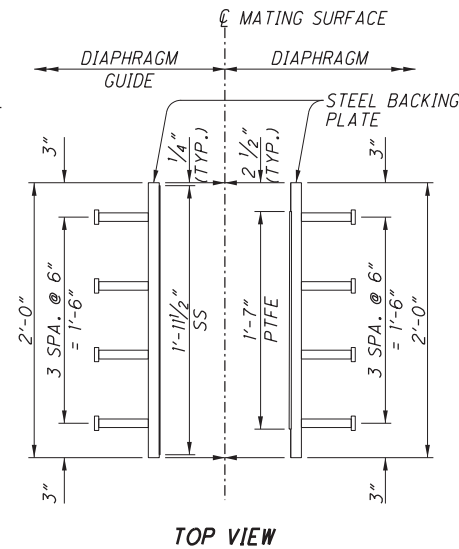


DIAPHRAGM GUIDE PLAN
(CCW SKEW ANGLE SHOWN. SEE NOTE FOR 0° SKEW)
CCW = COUNTERCLOCKWISE



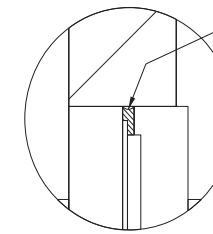
DIAPHRAGM GUIDE ELEVATION
(CCW SKEW ANGLE SHOWN, CW SIMILAR)

- * - FINISH THE SURFACE OF THE CONSTRUCTION JOINT WITH A SERRATED TROWEL. THE SERRATIONS SHALL BE 1/4" DEEP MINIMUM
- ** - PLACE TO AVOID INFERENCE WITH LONGITUDINAL REINFORCEMENT IN THE BEAM SEAT.



RUB PLATE DETAILS

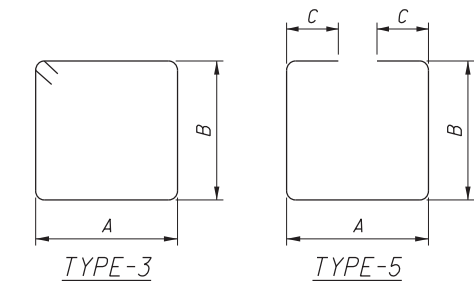
SS = STAINLESS STEEL
PTFE = POLYTETRAFLUORETHYLENE



DETAIL A

MARK	NUMBER	TYPE	DIMENSIONS		
			A	B	C
DG601	5	3	$\frac{(2'-8'')}{\cos(\phi)}$	2'-10 1/2"	
DG801	7	5	2'-8"	2'-9"	2'-4"

BENDING DIAGRAMS



GENERAL NOTES

DESCRIPTION: THIS DRAWING PROVIDES THE COMPLETE PLAN DETAILS FOR SEMI-INTEGRAL DIAPHRAGM GUIDES.

DESIGNER NOTES: EACH DIAPHRAGM GUIDE HAS BEEN DESIGNED TO A FACTORED CAPACITY NORMAL TO THE RUB PLATES OF 302 KIP AND PARALLEL TO THE RUB PLATES OF 60 KIP. FOR IMPOSED FACTORED LOADING EXCEEDING THESE CAPACITIES, ADDITIONAL GUIDES SHALL BE SPECIFIED.

THE PROJECT PLANS SHALL DETAIL THE LOCATION OF EACH DIAPHRAGM GUIDE. THE VOLUME OF CONCRETE AND REINFORCING STEEL FOR THE DIAPHRAGM GUIDES SHALL NOT BE INCLUDED IN THE PLAN QUANTITIES.

SKEW: FOR BRIDGES WITH SKEW ANGLE EQUAL TO 0°, RUB PLATES SHALL BE INSTALLED ON BOTH SIDES OF THE DIAPHRAGM GUIDE.

CONCRETE: PERFORM WORK ACCORDING TO C&MS 511. USE THE SAME CLASS OF CONCRETE USED IN THE ABUTMENT. F'C = 4.0 KSI.

REINFORCING STEEL: PROVIDE REINFORCEMENT ACCORDING TO C&MS 509. MIN. YIELD STRENGTH = 60 KSI

STAINLESS STEEL: 13 GAGE STAINLESS STEEL, TYPE 304, ASTM A167 OR A240 WITH A SURFACE FINISH OF 8.0 μ-IN OR BETTER WELDED AROUND THE ENTIRE PERIMETER TO THE 1" BACKING PLATE PER 869.12.

PTFE:

PROVIDE PTFE SHEET OR FABRIC PER SUPPLEMENTAL SPECIFICATION 869.10 AND ATTACH PER 869.11.

STEEL BACKING PLATE:

PROVIDE ASTM A709 GRADE 50 STEEL BACKING PLATES ACCORDING TO C&MS 711.01.

END WELDED STUDS:

PROVIDE END WELDED STUDS IN ACCORDANCE WITH C&MS 513.22.

RUB PLATES: FABRICATE RUB PLATES ACCORDING TO SUPPLEMENTAL SPECIFICATION 869. SHIP AND PACKAGE FABRICATED UNITS ACCORDING TO 869.18. LEAVE WRAPPING, STRAPS OR RETAINING CLAMPS IN PLACE UNTIL BOTH SIDES OF THE UNIT ARE SECURED IN THEIR FINAL POSITION. ADDITIONAL REINFORCEMENT MAY BE INCLUDED IN THE GUIDE FOR THIS PURPOSE.

CORROSION PROTECTION:

SHOP METALLIZE AND SEAL ALL STEEL SURFACES, EXCEPT PTFE-STAINLESS STEEL SLIDING SURFACES PER 869.13.

BASIS OF PAYMENT:

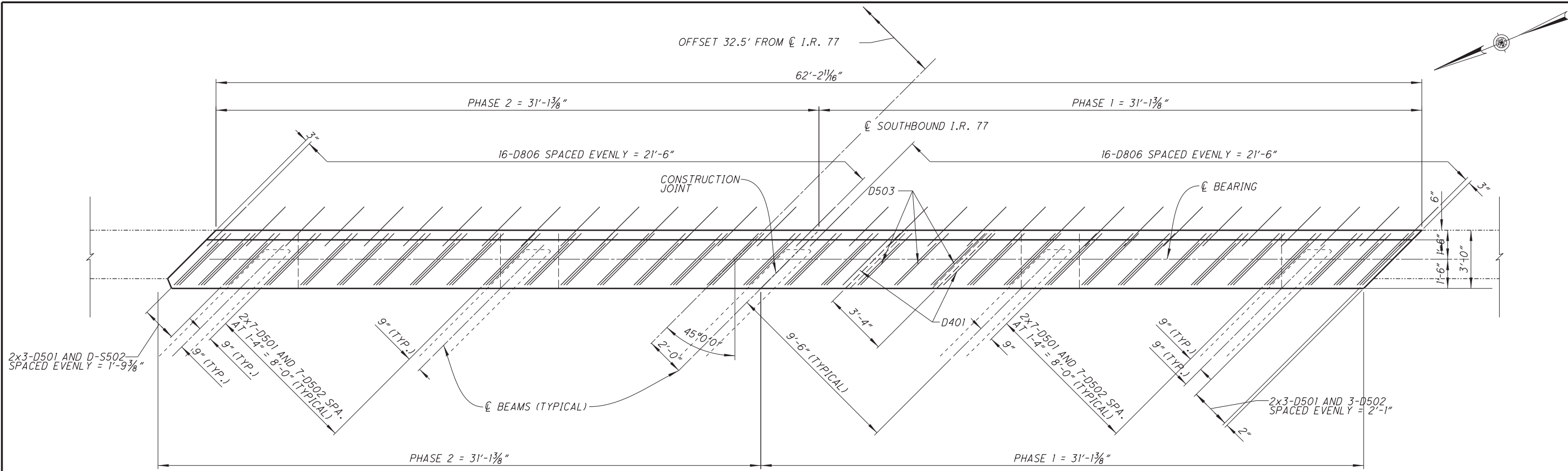
THE DEPARTMENT WILL PAY FOR ACCEPTED QUANTITIES OF CAULK, PEJF, CONCRETE, REINFORCEMENT AND RUB PLATES AS FOLLOWS:

ITEM	UNIT	DESCRIPTION
511	EACH	SEMI-INTEGRAL DIAPHRAGM GUIDE, AS PER PLAN

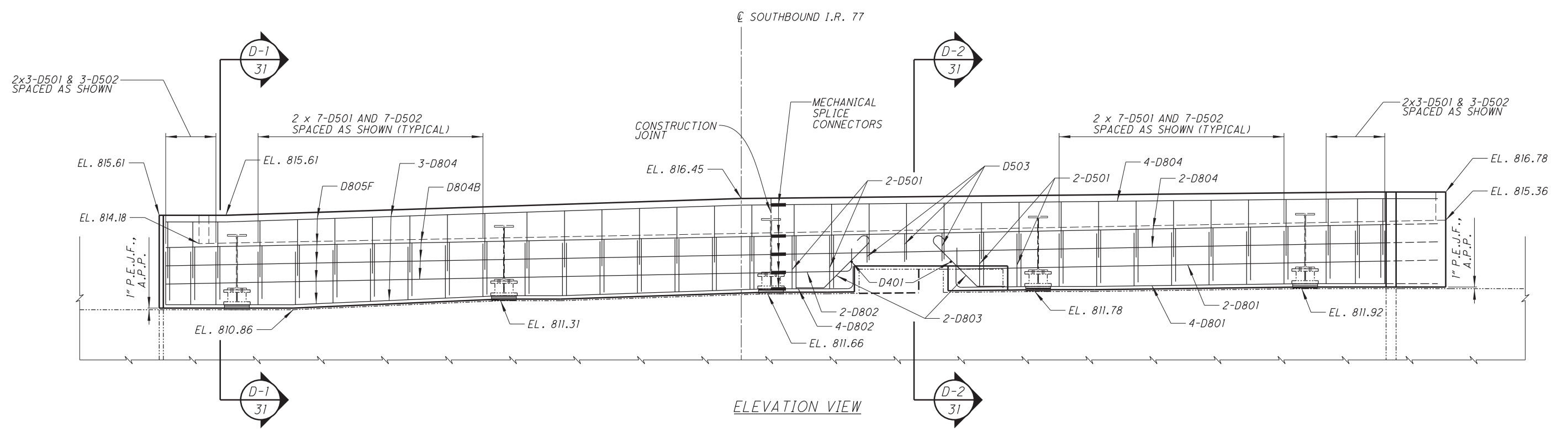
DESIGN AGENCY: OFFICE OF STRUCTURAL ENGINEERING
 STATE OF OHIO DEPARTMENT OF TRANSPORTATION
 DATE: 07-18-14
 ADMINISTRATOR: [Signature]
 REVISIONS: SICD-2-14
 STANDARD BRIDGE DRAWING: SEMI-INTEGRAL ABUTMENT DIAPHRAGM GUIDE

DESIGN AGENCY: OHIO DEPARTMENT OF TRANSPORTATION
 BRIDGE NO.: GUE-77-1474 (LEFT & RIGHT BRIDGES)
 OVER C.R. 35
 DESIGN AGENCY: OHIO DEPARTMENT OF TRANSPORTATION
 DATE: 09/13/16
 STRUCTURE FILE NUMBER: 3003248/3003272
 DESIGNER: JDR
 CHECKED: TAG
 DRAWN: CPS
 REVISIONS: 26/44
 GUE-77-VAR
 PID No. 21631
 74
 129

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PLAN VIEW



ELEVATION VIEW

DESIGN AGENCY
OHIO DEPARTMENT OF
TRANSPORTATION, DISTRICT 5

DATE
09/13/16

REVIEWED
JDR
STRUCTURE FILE NUMBER
3003248

DRAWN
CPS
REVISIONS

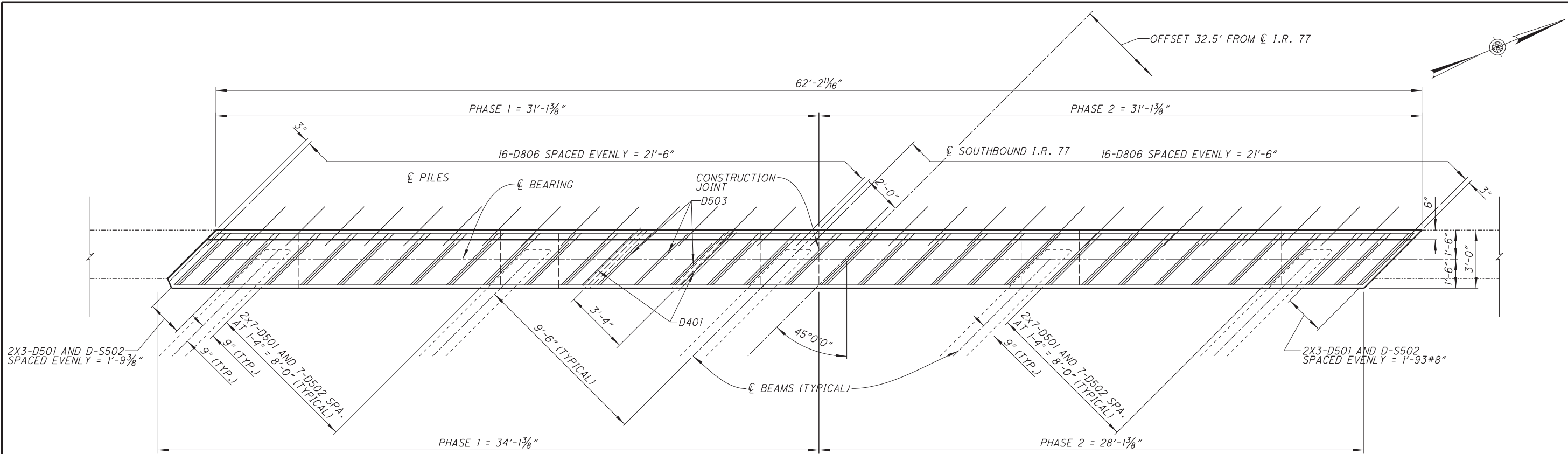
DESIGNED
CPS
CHECKED
TAG

PROPOSED REAR ABUTMENT DIAPHRAGM
BRIDGE NO. GUE-77-1474 (LEFT BRIDGE)
OVER C.R. 35

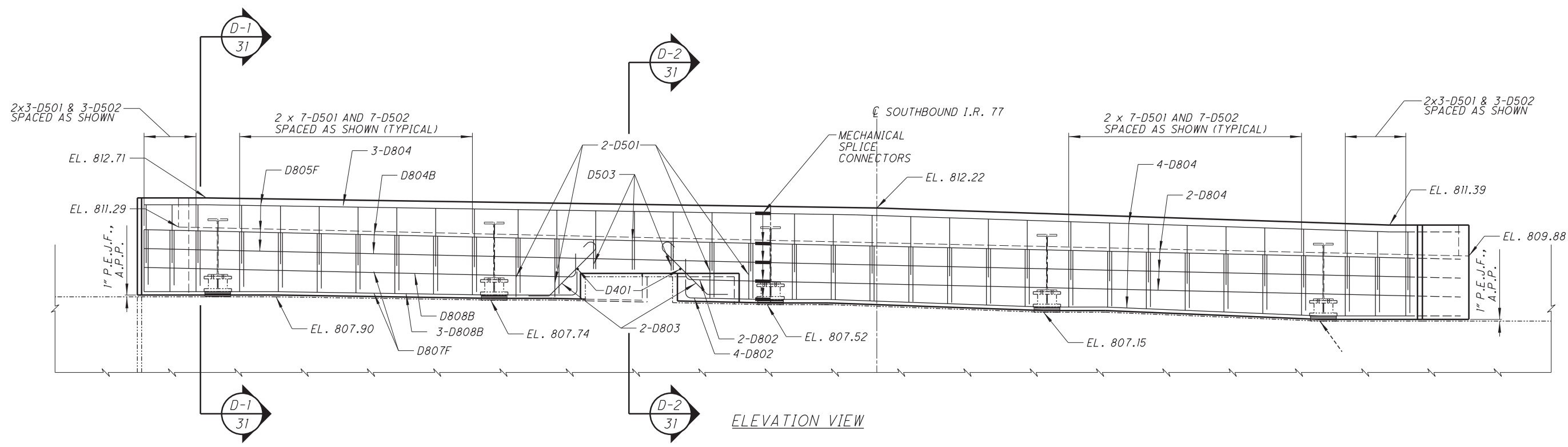
GUE-77-VAR
PID No. 21631

27/44
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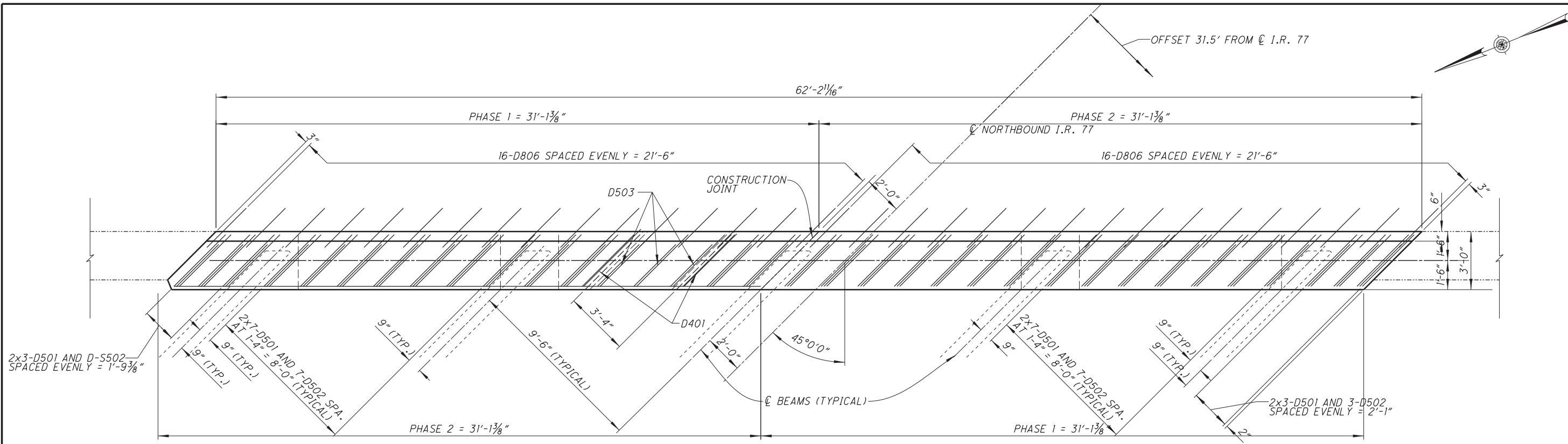
PLAN VIEW



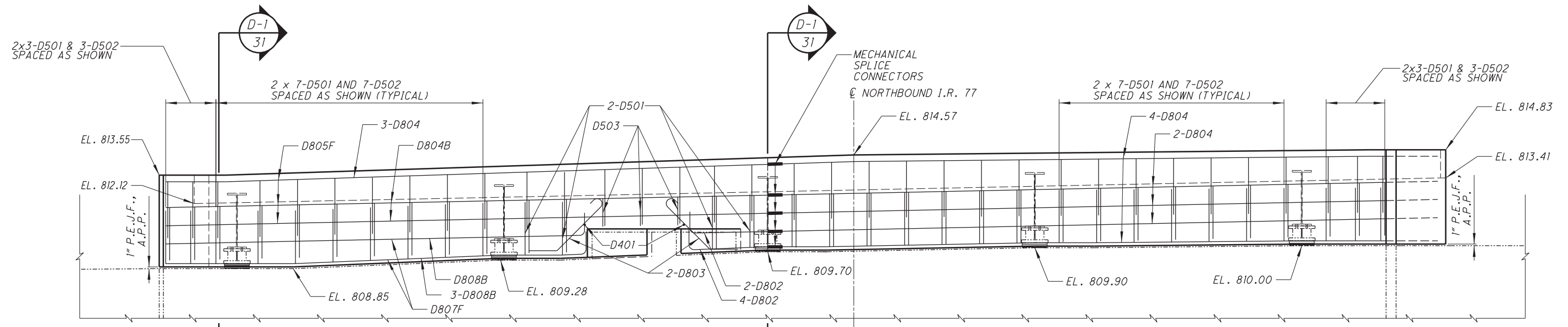
ELEVATION VIEW

DESIGN AGENCY		OHIO DEPARTMENT OF TRANSPORTATION, DISTRICT 5	
REVIEWED	DATE	STRUCTURE FILE NUMBER	
JDR	09/13/16	3003248	
DRAWN	CPS	REVIS	
CPS		---	
DESIGNED	CPS	CHECKED	TAG
PROPOSED FORWARD ABUTMENT DIAPHRAGM			
BRIDGE NO. GUE-77-1474 (LEFT BRIDGE) OVER C.R. 35			
GUE-77-VAR		PID No. 21631	
28/44		76 129	

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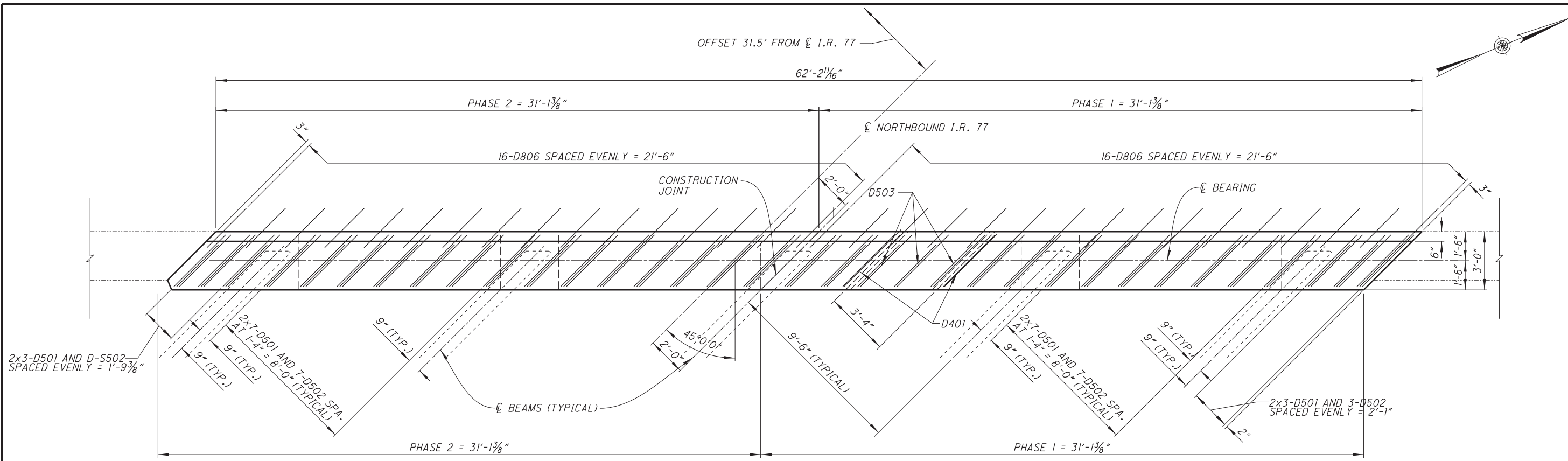
PLAN VIEW



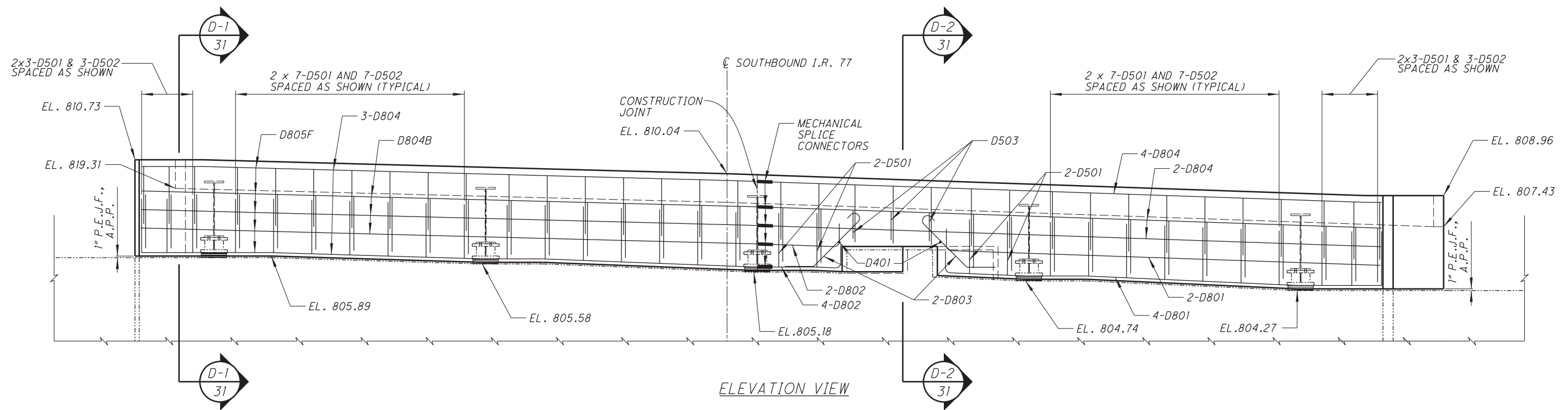
ELEVATION VIEW

DESIGN AGENCY		OHIO DEPARTMENT OF TRANSPORTATION, DISTRICT 5	
DESIGNED	CPS	CHECKED	TAG
DRAWN	CPS	REVISED	---
REVIEWED	JDR	STRUCTURE FILE NUMBER	3003272
DATE	09/13/16		
<p>PROPOSED REAR ABUTMENT DIAPHRAGM BRIDGE NO. GUE-77-1474 (RIGHT BRIDGE) OVER C.R. 35</p>			
GUE-77-VAR		PID No. 21631	
29/44		77/129	

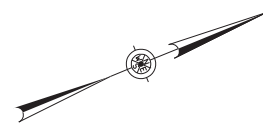
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PLAN VIEW

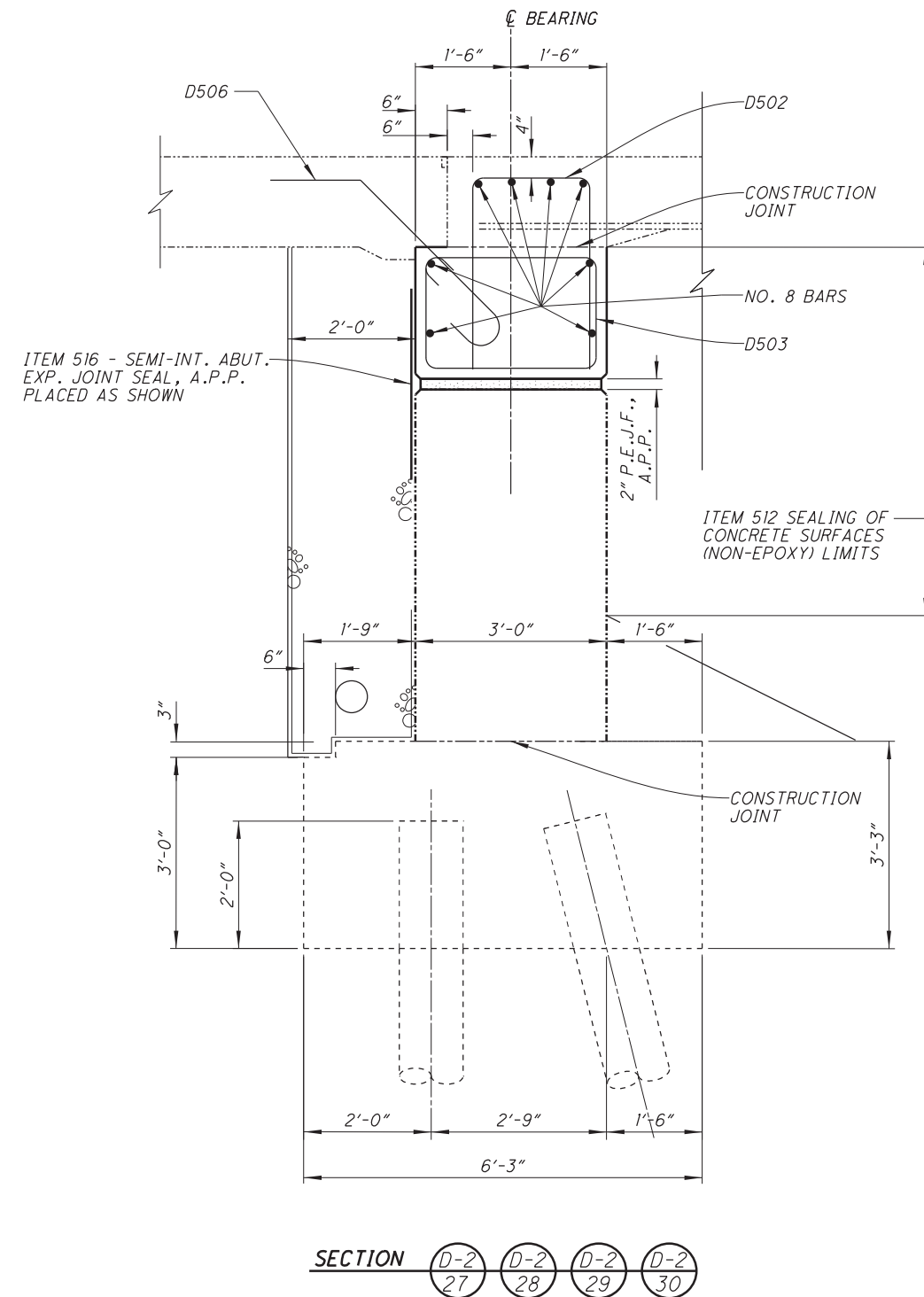
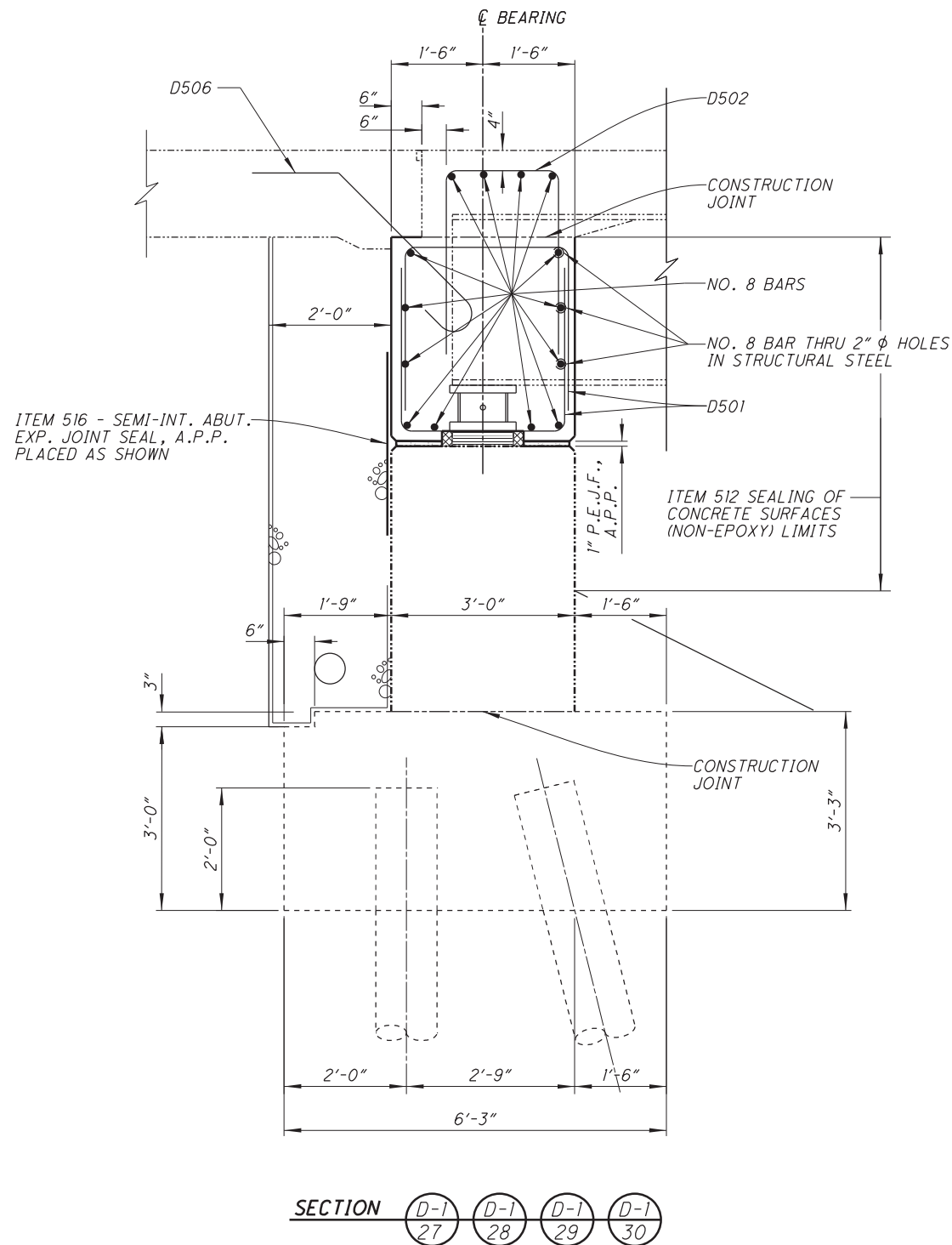


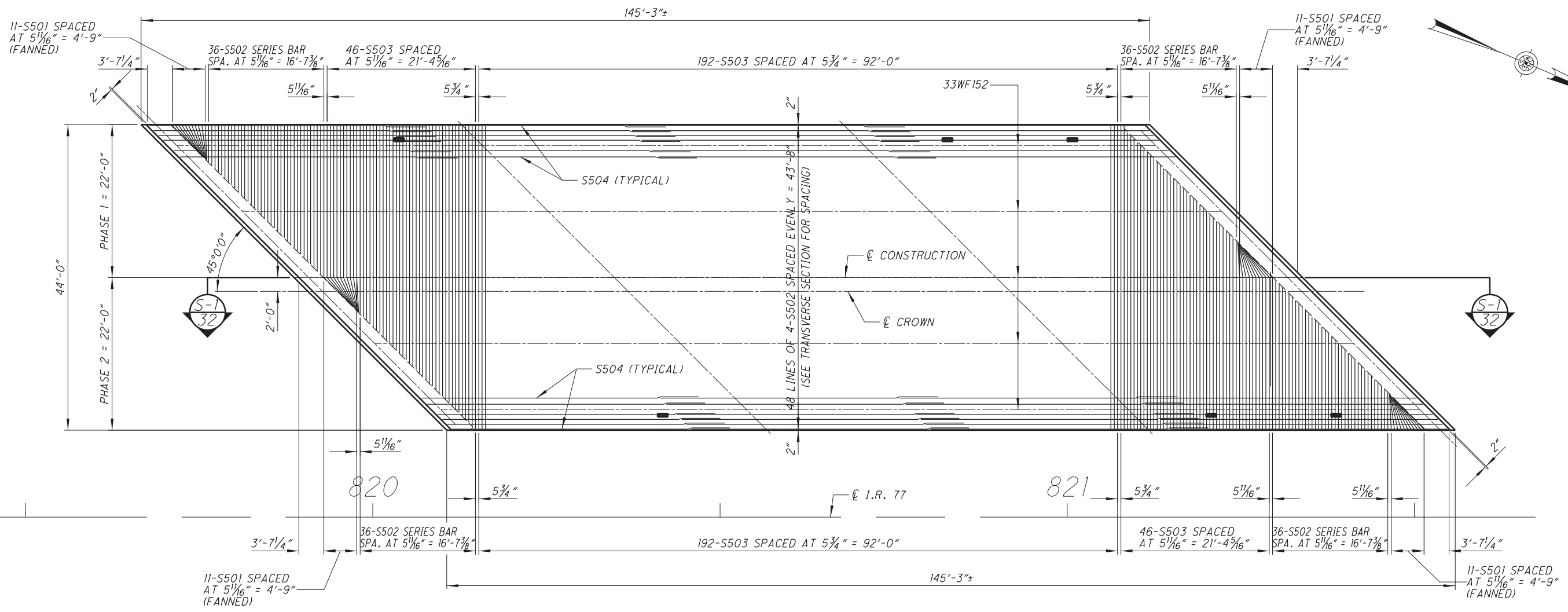
ELEVATION VIEW



DESIGN AGENCY		OHIO DEPARTMENT OF TRANSPORTATION, DISTRICT 5	
REVIEWED	DATE	STRUCTURE FILE NUMBER	
JDR	09/13/16	3003272	
DRAWN	CPS	REVIS	---
CPS		TAG	
PROPOSED FORWARD ABUTMENT DIAPHRAGM			
BRIDGE NO. GUE-77-1474 (RIGHT BRIDGE)			
OVER C.R. 35			
GUE-77-VAR		PID No. 21631	
30/44		78	
		129	

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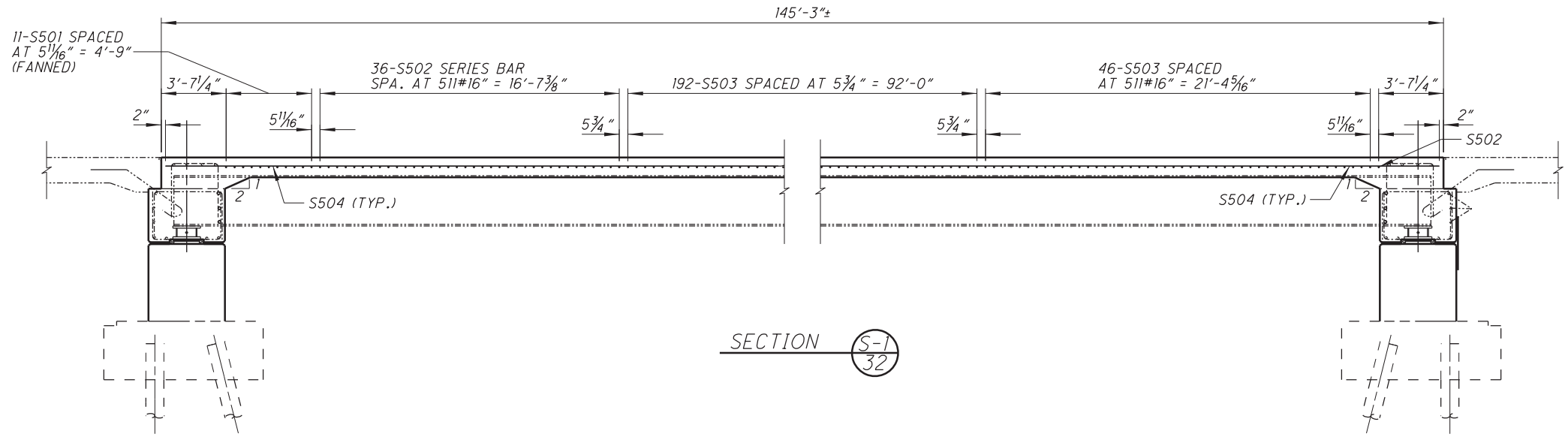




**BOTTOM MAT REINFORCEMENT
PLAN VIEW**

* LEFT BRIDGE SHOWN RIGHT BRIDGE MIRRORED *

SUPERSTRUCTURE LAP LENGTH
NO. 5 = 3'-7" (MIN.)



SECTION S-1/32

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DESIGN AGENCY
OHIO DEPARTMENT OF
TRANSPORTATION, DISTRICT 5

REVIEWED DATE 09/13/16
JDR
STRUCTURE FILE NUMBER
3003248/3003272

DRAWN CPS
DESIGNED CPS
CHECKED TAG

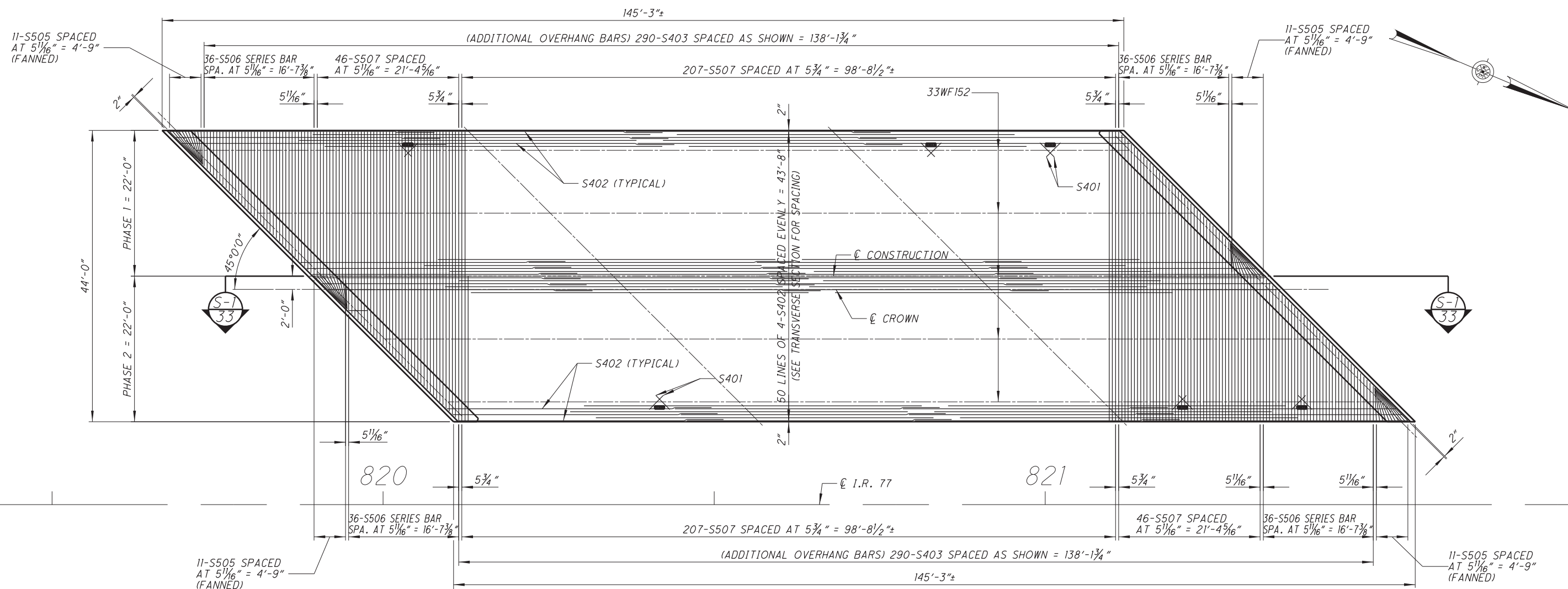
SUPERSTRUCTURE REINFORCING STEEL LAYOUT (BOTTOM MAT)
BRIDGE NO. GUE-77-1474 (LEFT & RIGHT BRIDGES)
OVER C.R. 35

GUE-77-VAR
PID No. 21631

32/44

80
129

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TOP MAT REINFORCEMENT (PLAN VIEW)
* LEFT BRIDGE SHOWN RIGHT BRIDGE MIRRORED *

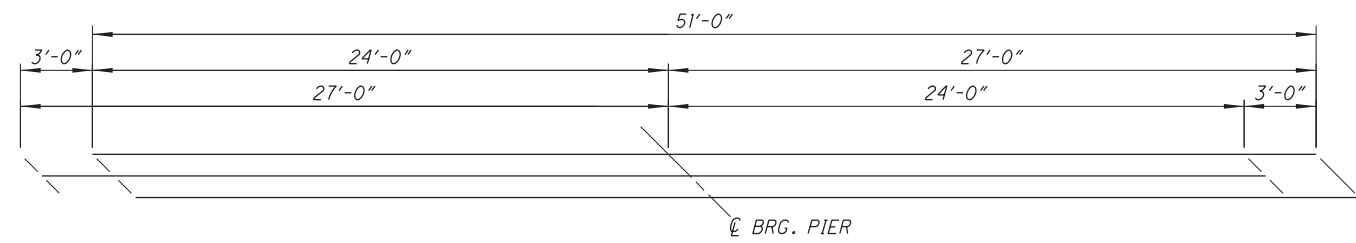
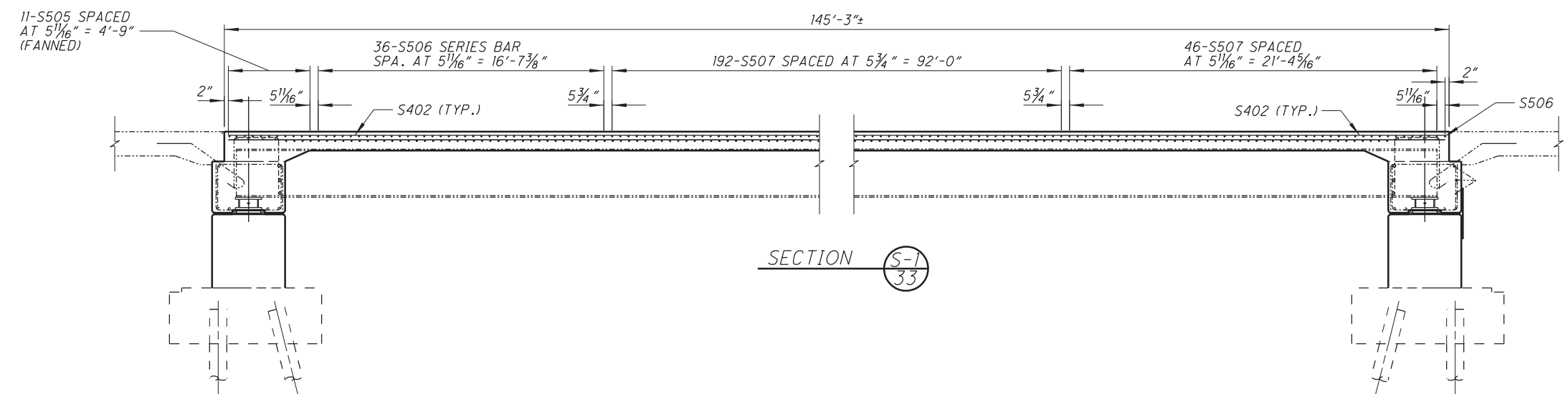


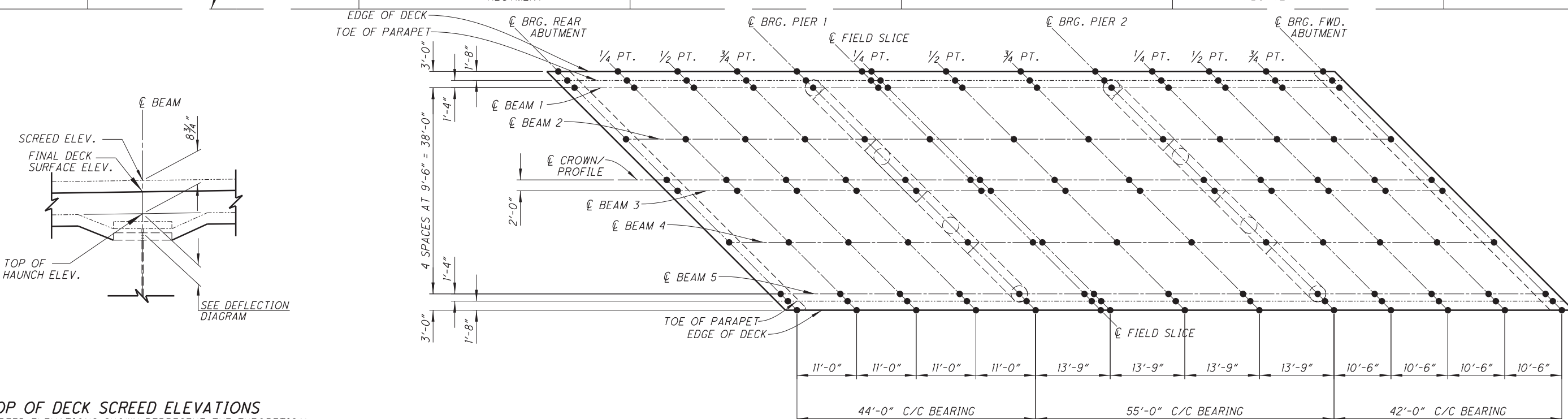
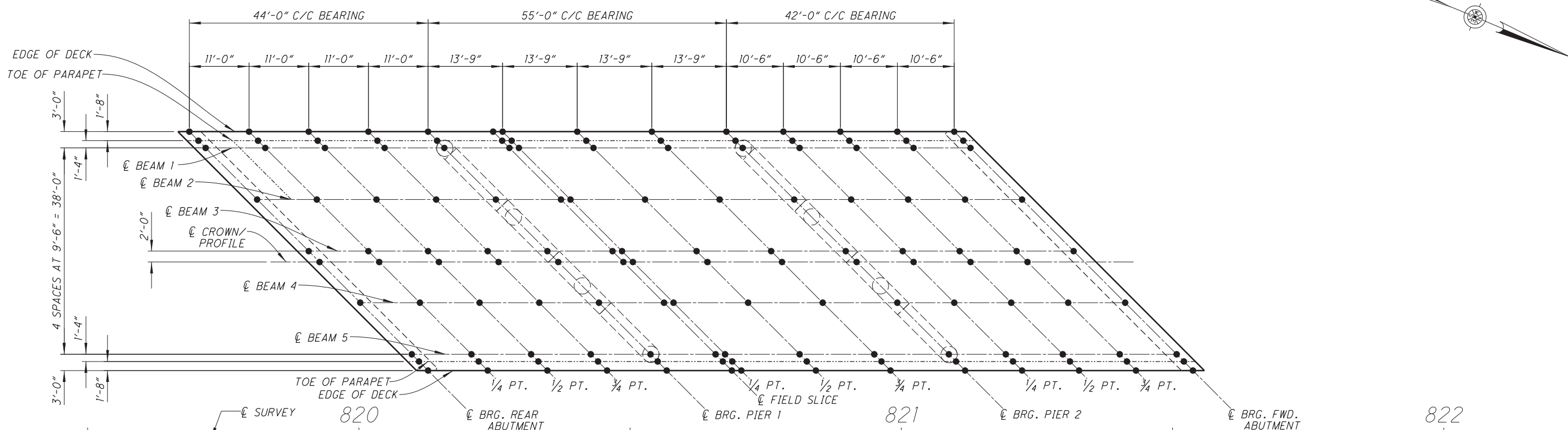
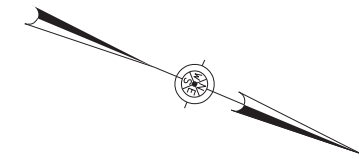
DIAGRAM SHOWING STAGGER OF S508 OVER PIERS 1 & 2



SECTION S-1/33

SUPERSTRUCTURE LAP LENGTH
NO. 5 = 3'-7" (MIN.)

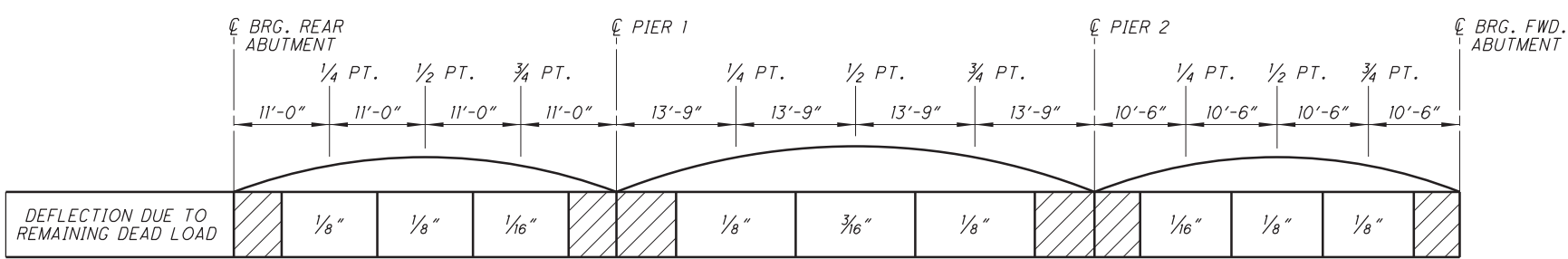
DESIGN AGENCY	OHIO DEPARTMENT OF TRANSPORTATION, DISTRICT 5
DATE	09/13/16
REVIEWED	JDR
DRAWN	CPS
DESIGNED	CPS
CHECKED	TAG
STRUCTURE FILE NUMBER	3003248/3003272
REVISED	---
TAG	---
SUPERSTRUCTURE REINFORCING STEEL LAYOUT (TOP MAT)	
BRIDGE NO. GUE-77-1474 (LEFT & RIGHT BRIDGES)	
OVER C.R. 35	
GUE-77-VAR	PID No. 21631
33/44	81/129



TOP OF DECK SCREED ELEVATIONS
 SCREED ELEVATIONS SHOWN REPRESENT THE THEORETICAL DECK SURFACE LOCATION PRIOR TO DEFLECTIONS CAUSED BY DECK PLACEMENT AND OTHER ANTICIPATED DEAD LOADS.

TOP OF HAUNCH SCREED ELEVATIONS
 TOP OF HAUNCH ELEVATIONS SHOWN REPRESENT THE THEORETICAL LOCATION OF THE BOTTOM OF THE DECK ABOVE THE GIRDER HAUNCH PRIOR TO DEFLECTIONS CAUSED BY DECK PLACEMENT AND OTHER ANTICIPATED DEAD LOADS.

FINISHED DECK ELEVATIONS
 FINAL DECK SURFACE ELEVATIONS SHOWN REPRESENT THE DECK SURFACE LOCATION AFTER ALL ANTICIPATED DEAD LOAD DEFLECTIONS HAVE OCCURRED.



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DESIGN AGENCY
 OHIO DEPARTMENT OF
 TRANSPORTATION, DISTRICT 5

REVIEWED DATE 09/13/16
 JDR
 STRUCTURE FILE NUMBER 3003248/3003272

DRAWN CPS
 CHECKED TAG

BRIDGE NO. GUE-77-1474 (LEFT & RIGHT BRIDGES)
 OVER C.R. 35

GUE-77-VAR
 PID No. 21631

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					DECK ELEVATIONS (SPAN 1)												DECK ELEVATIONS (SPAN 2)											
LOCATION	CL BRG. REAR ABUT.				1/4 PT.				1/2 PT.				3/4 PT.				CL PIER 1				0.2182 PT. FIELD SPLICE				1/4 PT.			
	STATION	FINISHED DECK ELEV.	TOP OF DECK SCREED ELEV.	TOP OF HAUNCH SCREED ELEV.	STATION	FINISHED DECK ELEV.	TOP OF DECK SCREED ELEV.	TOP OF HAUNCH SCREED ELEV.	STATION	FINISHED DECK ELEV.	TOP OF DECK SCREED ELEV.	TOP OF HAUNCH SCREED ELEV.	STATION	FINISHED DECK ELEV.	TOP OF DECK SCREED ELEV.	TOP OF HAUNCH SCREED ELEV.	STATION	FINISHED DECK ELEV.	TOP OF DECK SCREED ELEV.	TOP OF HAUNCH SCREED ELEV.	STATION	FINISHED DECK ELEV.	TOP OF DECK SCREED ELEV.	TOP OF HAUNCH SCREED ELEV.	STATION	FINISHED DECK ELEV.	TOP OF DECK SCREED ELEV.	TOP OF HAUNCH SCREED ELEV.
EDGE OF DECK	819+68.75	816.79	816.79	816.06	819+79.75	816.46	816.47	815.75	819+90.75	816.13	816.15	815.42	820+01.75	815.80	815.81	815.08	820+12.75	815.47	815.47	814.75	820+24.75	815.12	815.12	814.39	820+26.50	815.06	815.07	814.34
TOE OF PARAPET	819+70.42	816.77	816.77	816.04	819+81.42	816.44	816.45	815.72	819+92.42	816.11	816.12	815.39	820+03.42	815.78	815.79	815.06	820+14.42	815.45	815.45	814.72	820+26.42	815.09	815.10	814.37	820+28.17	815.04	815.05	814.32
BEAM 1	819+71.75	816.75	816.75	816.02	819+82.75	816.42	816.43	815.70	819+93.75	816.09	816.10	815.37	820+04.75	815.76	815.77	815.04	820+15.75	815.43	815.43	814.70	820+27.75	815.07	815.08	814.35	820+29.50	815.02	815.03	814.30
BEAM 2	819+81.25	816.61	816.61	815.88	819+92.25	816.28	816.30	815.57	820+03.25	815.95	815.97	815.24	820+14.25	815.62	815.63	814.90	820+25.25	815.30	815.30	814.57	820+37.25	814.94	814.94	814.21	820+39.00	814.88	814.89	814.16
BEAM 3 / C.L. CONSTRUCTION	819+90.75	816.48	816.48	815.75	820+01.75	816.15	816.16	815.43	820+12.75	815.82	815.83	815.10	820+23.75	815.49	815.49	814.76	820+34.75	815.16	815.16	814.43	820+46.75	814.80	814.81	814.08	820+48.50	814.75	814.76	814.03
PROFILE/CROWN	819+92.75	816.45	816.45	815.72	820+03.75	816.12	816.13	815.40	820+14.75	815.79	815.80	815.07	820+25.75	815.46	815.46	814.74	820+36.75	815.13	815.13	814.40	820+48.75	814.77	814.78	814.05	820+50.50	814.72	814.73	814.00
BEAM 4	820+00.25	816.11	816.11	815.38	820+11.25	815.78	815.79	815.06	820+22.25	815.45	815.46	814.73	820+33.25	815.12	815.12	814.39	820+44.25	814.79	814.79	814.06	820+56.25	814.43	814.44	813.71	820+58.00	814.38	814.38	813.66
BEAM 5	820+09.75	815.67	815.67	814.94	820+20.75	815.34	815.36	814.63	820+31.75	815.01	815.03	814.30	820+42.75	814.68	814.69	813.96	820+53.75	814.36	814.36	813.63	820+65.75	814.00	814.00	813.27	820+67.50	813.94	813.95	813.22
TOE OF PARAPET	820+11.08	815.61	815.61	814.88	820+22.08	815.28	815.29	814.57	820+33.08	814.95	814.97	814.24	820+44.08	814.62	814.63	813.90	820+55.08	814.29	814.29	813.57	820+67.08	813.93	813.94	813.21	820+68.83	813.88	813.89	813.16
EDGE OF DECK	820+12.75	815.54	815.54	814.81	820+23.75	815.21	815.22	814.49	820+34.75	814.88	814.89	814.16	820+45.75	814.55	814.55	813.82	820+56.75	814.22	814.22	813.49	820+68.75	813.86	813.87	813.14	820+70.50	813.81	813.82	813.09

					DECK ELEVATIONS (SPAN 2)								DECK ELEVATIONS (SPAN 3)																
LOCATION	1/2 PT.				3/4 PT.				CL PIER 2				1/4 PT.				1/2 PT.				3/4 PT.				CL BRG. FWD. ABUT.				
	STATION	FINISHED DECK ELEV.	TOP OF DECK SCREED ELEV.	TOP OF HAUNCH SCREED ELEV.	STATION	FINISHED DECK ELEV.	TOP OF DECK SCREED ELEV.	TOP OF HAUNCH SCREED ELEV.	STATION	FINISHED DECK ELEV.	TOP OF DECK SCREED ELEV.	TOP OF HAUNCH SCREED ELEV.	STATION	FINISHED DECK ELEV.	TOP OF DECK SCREED ELEV.	TOP OF HAUNCH SCREED ELEV.	STATION	FINISHED DECK ELEV.	TOP OF DECK SCREED ELEV.	TOP OF HAUNCH SCREED ELEV.	STATION	FINISHED DECK ELEV.	TOP OF DECK SCREED ELEV.	TOP OF HAUNCH SCREED ELEV.	STATION	FINISHED DECK ELEV.	TOP OF DECK SCREED ELEV.	TOP OF HAUNCH SCREED ELEV.	
EDGE OF DECK	820+40.25	814.65	814.67	813.94	820+54.00	814.24	814.25	813.52	820+67.75	813.83	813.83	813.10	820+78.25	813.51	813.52	812.79	820+88.75	813.25	813.25	812.53	820+99.25	812.98	812.98	812.26	821+09.75	812.72	812.72	811.99	
TOE OF PARAPET	820+41.92	814.63	814.64	813.91	820+55.07	814.21	814.22	813.49	820+69.42	813.80	813.80	813.07	820+79.92	813.49	813.50	812.77	820+90.42	813.23	813.24	812.51	821+00.92	812.96	812.97	812.24	821+11.42	812.70	812.70	811.97	
BEAM 1	820+43.25	814.61	814.62	813.89	820+57.00	814.20	814.20	813.48	820+70.75	813.78	813.78	813.05	820+81.25	813.48	813.48	812.75	820+91.75	813.21	813.22	812.49	821+02.25	812.94	812.95	812.22	821+12.75	812.67	812.67	811.94	
BEAM 2	820+52.75	814.47	814.49	813.76	820+66.50	814.06	814.07	813.34	820+80.25	813.65	813.65	812.92	820+90.75	813.36	813.36	812.64	821+01.25	813.07	813.08	812.35	821+11.75	812.78	812.78	812.06	821+22.25	812.49	812.49	811.76	
BEAM 3 / C.L. CONSTRUCTION	820+62.25	814.33	814.35	813.62	820+76.00	813.92	813.93	813.20	820+89.75	813.51	813.51	812.79	821+00.25	813.20	813.21	812.48	821+10.75	812.89	812.90	812.17	821+21.25	812.58	812.58	811.86	821+31.75	812.27	812.27	811.54	
PROFILE/CROWN	820+64.25	814.31	814.32	813.59	820+78.00	813.89	813.90	813.17	820+91.75	813.48	813.48	812.75	821+02.25	813.17	813.17	812.44	821+12.75	812.85	812.86	812.13	821+23.25	812.54	812.55	811.82	821+33.75	812.22	812.22	811.49	
BEAM 4	820+71.75	813.96	813.98	813.25	820+85.50	813.55	813.56	812.83	820+99.25	813.14	813.14	812.41	821+09.75	812.82	812.83	812.10	821+20.25	812.51	812.52	811.79	821+30.75	812.20	812.20	811.47	821+41.25	811.88	811.88	811.15	
BEAM 5	820+81.25	813.53	813.55	812.82	820+95.00	813.12	813.13	812.40	821+08.75	812.71	812.71	811.98	821+19.25	812.39	812.40	811.67	821+29.75	812.08	812.09	811.36	821+40.25	811.76	811.77	811.04	821+50.75	811.45	811.45	810.72	
TOE OF PARAPET	820+82.58	813.47	813.49	812.76	820+96.33	813.06	813.07	812.34	821+10.08	812.65	812.65	811.92	821+20.58	812.33	812.34	811.61	821+31.08	812.02	812.03	811.30	821+41.58	811.70	811.71	810.98	821+52.08	811.39	811.39	810.66	
EDGE OF DECK	820+84.25	813.39	813.41	812.68	820+98.00	812.98	812.99	812.26	821+11.75	812.57	812.57	811.84	821+22.25	812.26	812.26	811.53	821+32.75	811.94	811.95	811.22	821+43.25	811.63	811.63	810.91	821+53.75	811.31	811.31	810.58	

REAR APPROACH SLAB FINISH ELEVATIONS						
LOCATION	BEGIN APPR. SLAB		1/2 PT.		END APPR. SLAB	
	STATION	ELEV.	STATION	ELEV.	STATION	ELEV.
TOE OF PARAPET (22'-4" LT.)	819+41.01	817.64	819+54.01	817.26	819+69.01	816.81
CONSTRUCTION JOINT (2'-0" LT.)	819+59.34	817.42	819+74.34	816.97	819+89.34	816.52
PROFILE GRADE	819+61.34	817.39	819+76.34	816.94	819+91.34	816.49
TOE OF PARAPET (18'-4" RT.)	819+79.67	816.55	819+94.67	816.11	820+09.67	815.66

FORWARD APPROACH SLAB FINISH ELEVATIONS						
LOCATION	BEGIN APPR. SLAB		1/2 PT.		END APPR. SLAB	
	STATION	ELEV.	STATION	ELEV.	STATION	ELEV.
TOE OF PARAPET (22'-4" LT.)	821+12.84	812.66	821+27.84	812.28	821+42.84	811.90
CONSTRUCTION JOINT (2'-0" LT.)	821+33.17	812.23	821+48.17	811.79	821+63.17	811.34
PROFILE GRADE	821+35.17	812.18	821+50.17	811.73	821+65.17	811.28
TOE OF PARAPET (18'-4" RT.)	821+53.50	811.34	821+68.50	810.90	821+81.50	810.51

DESIGN AGENCY	OHIO DEPARTMENT OF TRANSPORTATION, DISTRICT 5
DATE	09/13/16
REVIEWED	JDR
STRUCTURE FILE NUMBER	3003248
DRAWN	CPS
CHECKED	---
DESIGNED	CPS
TAG	---
SCREED TABLE	
BRIDGE NO. GUE-77-1474 (LEFT BRIDGE) OVER C.R. 35	
GUE-77-VAR	
PID No. 21631	
35 / 44	
83 129	

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					DECK ELEVATIONS (SPAN 1)												DECK ELEVATIONS (SPAN 2)											
LOCATION	CL BRG. REAR ABUT.				1/4 PT.				1/2 PT.				3/4 PT.				CL PIER 1				0.2182 PT. FIELD SPLICE				1/4 PT.			
	STATION	FINISHED DECK ELEV.	TOP OF DECK SCREED ELEV.	TOP OF HAUNCH SCREED ELEV.	STATION	FINISHED DECK ELEV.	TOP OF DECK SCREED ELEV.	TOP OF HAUNCH SCREED ELEV.	STATION	FINISHED DECK ELEV.	TOP OF DECK SCREED ELEV.	TOP OF HAUNCH SCREED ELEV.	STATION	FINISHED DECK ELEV.	TOP OF DECK SCREED ELEV.	TOP OF HAUNCH SCREED ELEV.	STATION	FINISHED DECK ELEV.	TOP OF DECK SCREED ELEV.	TOP OF HAUNCH SCREED ELEV.	STATION	FINISHED DECK ELEV.	TOP OF DECK SCREED ELEV.	TOP OF HAUNCH SCREED ELEV.	STATION	FINISHED DECK ELEV.	TOP OF DECK SCREED ELEV.	TOP OF HAUNCH SCREED ELEV.
EDGE OF DECK	820+36.75	814.85	814.85	814.12	820+47.75	814.52	814.53	813.81	820+58.75	814.19	814.21	813.48	820+69.75	813.86	813.87	813.14	820+80.75	813.54	813.54	812.81	820+92.75	813.20	813.20	812.47	820+94.50	813.15	813.15	812.43
TOE OF PARAPET	820+38.42	814.83	814.83	814.10	820+49.42	814.50	814.51	813.78	820+60.42	814.17	814.18	813.45	820+71.42	813.84	813.84	813.12	820+82.42	813.51	813.51	812.78	820+94.42	813.17	813.16	812.45	820+96.17	813.12	813.13	812.40
BEAM 1	820+39.75	814.81	814.81	814.08	820+50.75	814.48	814.49	813.76	820+61.75	814.15	814.16	813.43	820+72.75	813.82	813.83	813.10	820+83.75	813.50	813.50	812.77	820+95.75	813.15	813.15	812.43	820+97.50	813.10	813.11	812.38
BEAM 2	820+49.25	814.67	814.67	813.94	820+60.25	814.34	814.35	813.63	820+71.25	814.01	814.03	813.30	820+82.25	813.68	813.69	812.96	820+93.25	813.34	813.34	812.61	821+05.25	812.97	812.96	812.25	821+07.00	812.91	812.92	812.19
PROFILE/CROWN	820+56.75	814.57	814.57	813.84	820+67.75	814.24	814.25	813.52	820+78.75	813.91	813.92	813.19	820+89.75	813.55	813.55	812.82	821+00.75	813.19	813.19	812.46	821+12.75	812.80	812.81	812.08	821+14.50	812.74	812.75	812.02
BEAM 3 / C.L. CONSTRUCTION	820+58.75	814.47	814.47	813.75	820+69.75	814.14	814.16	813.43	820+80.75	813.81	813.82	813.09	820+91.75	813.45	813.46	812.73	821+02.75	813.09	813.09	812.37	821+14.75	812.70	812.71	811.98	821+16.50	812.65	812.66	811.93
BEAM 4	820+68.25	814.04	814.04	813.31	820+79.25	813.71	813.72	812.99	820+90.25	813.35	813.37	812.64	821+01.25	813.00	813.00	812.27	821+12.25	812.64	812.64	811.91	821+24.25	812.25	812.25	811.53	821+26.00	812.19	812.20	811.47
BEAM 5	820+77.75	813.61	813.61	812.88	820+88.75	813.25	813.26	812.54	820+99.75	812.90	812.91	812.18	821+10.75	812.54	812.54	811.81	821+21.75	812.18	812.18	811.45	821+33.75	811.79	811.80	811.07	821+35.50	811.73	811.74	811.01
TOE OF PARAPET	820+79.08	813.55	813.55	812.82	820+90.08	813.19	813.20	812.47	821+01.08	812.83	812.84	812.11	821+12.08	812.47	812.48	811.75	821+23.08	812.12	812.12	811.39	821+35.08	811.73	811.73	811.00	821+36.63	811.67	811.68	810.95
EDGE OF DECK	820+80.75	813.47	813.47	812.74	820+91.75	813.11	813.12	812.39	821+02.75	812.75	812.76	812.03	821+13.75	812.39	812.40	811.67	821+24.75	812.04	812.04	811.31	821+36.75	811.65	811.65	810.92	821+38.50	811.59	811.60	810.87

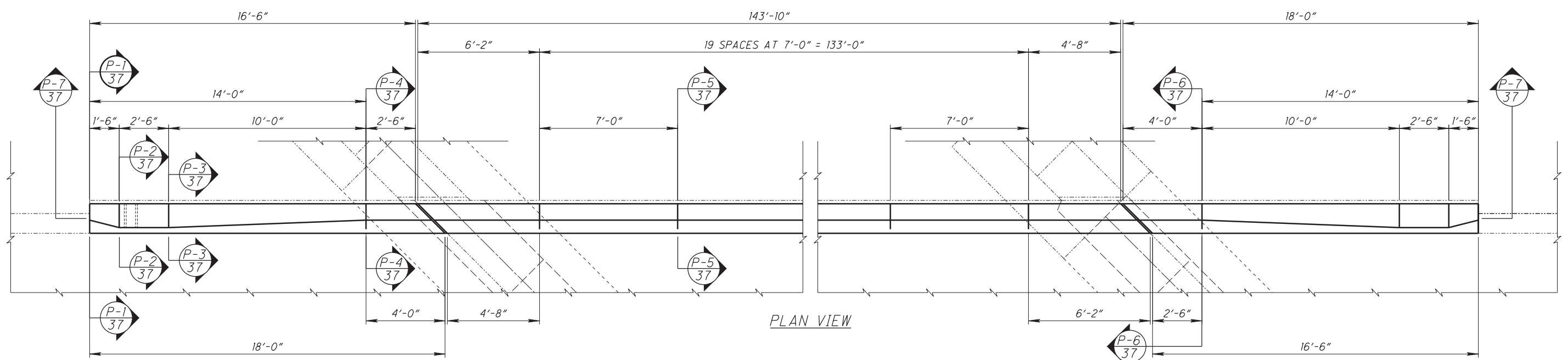
					DECK ELEVATIONS (SPAN 2)								DECK ELEVATIONS (SPAN 3)															
LOCATION	1/2 PT.				3/4 PT.				CL PIER 2				1/4 PT.				1/2 PT.				3/4 PT.				CL BRG. FWD. ABUT.			
	STATION	FINISHED DECK ELEV.	TOP OF DECK SCREED ELEV.	TOP OF HAUNCH SCREED ELEV.	STATION	FINISHED DECK ELEV.	TOP OF DECK SCREED ELEV.	TOP OF HAUNCH SCREED ELEV.	STATION	FINISHED DECK ELEV.	TOP OF DECK SCREED ELEV.	TOP OF HAUNCH SCREED ELEV.	STATION	FINISHED DECK ELEV.	TOP OF DECK SCREED ELEV.	TOP OF HAUNCH SCREED ELEV.	STATION	FINISHED DECK ELEV.	TOP OF DECK SCREED ELEV.	TOP OF HAUNCH SCREED ELEV.	STATION	FINISHED DECK ELEV.	TOP OF DECK SCREED ELEV.	TOP OF HAUNCH SCREED ELEV.	STATION	FINISHED DECK ELEV.	TOP OF DECK SCREED ELEV.	TOP OF HAUNCH SCREED ELEV.
EDGE OF DECK	821+08.25	812.76	812.77	812.04	821+22.00	812.37	812.38	811.65	821+35.75	811.98	811.98	811.25	821+46.25	811.68	811.68	810.95	821+56.75	811.38	811.39	810.66	821+67.25	811.09	811.09	810.37	821+77.75	810.79	810.79	810.06
TOE OF PARAPET	821+09.92	812.73	812.74	812.01	821+23.07	812.33	812.34	811.01	821+37.42	811.94	811.94	811.21	821+47.92	811.04	811.04	810.91	821+58.42	811.34	811.34	810.02	821+68.92	811.03	811.04	810.31	821+79.42	810.73	810.73	810.00
BEAM 1	821+11.25	812.70	812.71	811.99	821+25.00	812.30	812.31	811.58	821+38.75	811.90	811.90	811.17	821+49.25	811.60	811.60	810.87	821+59.75	811.29	811.30	810.57	821+70.25	810.99	811.00	810.27	821+80.75	810.69	810.69	809.96
BEAM 2	821+20.75	812.49	812.51	811.78	821+34.50	812.06	812.07	811.34	821+48.25	811.64	811.64	810.91	821+58.75	811.31	811.32	810.59	821+69.25	810.99	811.00	810.27	821+79.75	810.66	810.67	809.94	821+90.25	810.34	810.34	809.61
PROFILE/CROWN	821+28.25	812.30	812.31	811.58	821+42.00	811.85	811.86	811.13	821+55.75	811.40	811.40	810.67	821+66.25	811.06	811.07	810.34	821+76.75	810.72	810.73	810.00	821+87.25	810.38	810.39	809.66	821+97.75	810.04	810.04	809.31
BEAM 3 / C.L. CONSTRUCTION	821+30.25	812.20	812.22	811.49	821+44.00	811.75	811.76	811.03	821+57.75	811.31	811.31	810.58	821+68.25	810.97	810.97	810.24	821+78.75	810.62	810.63	809.91	821+89.25	810.28	810.29	809.56	821+99.75	809.94	809.94	809.21
BEAM 4	821+39.75	811.74	811.76	811.03	821+53.50	811.30	811.31	810.58	821+67.25	810.85	810.85	810.12	821+77.75	810.51	810.51	809.78	821+88.25	810.17	810.18	809.45	821+98.75	809.83	809.84	809.11	822+09.25	809.49	809.49	808.76
BEAM 5	821+49.25	811.29	811.30	810.57	821+63.00	810.84	810.85	810.12	821+76.75	810.39	810.39	809.66	821+87.25	810.05	810.06	809.33	821+97.75	809.71	809.72	808.99	822+08.25	809.37	809.36	808.65	822+18.75	809.03	809.03	808.30
TOE OF PARAPET	821+50.58	811.22	811.24	810.51	821+64.33	810.78	810.79	810.06	821+78.08	810.33	810.33	809.60	821+88.58	809.99	809.99	809.26	821+99.08	809.65	809.66	808.93	822+09.58	809.31	809.31	808.58	822+20.08	808.96	808.96	808.23
EDGE OF DECK	821+52.25	811.14	811.16	810.43	821+66.00	810.70	810.70	809.98	821+79.75	810.25	810.25	809.52	821+90.25	809.91	809.91	809.18	822+00.75	809.57	809.58	808.85	822+11.25	809.23	809.23	808.50	822+21.75	808.88	808.88	808.15

REAR APPROACH SLAB FINISH ELEVATIONS						
LOCATION	BEGIN APPR. SLAB		1/2 PT.		END APPR. SLAB	
	STATION	ELEV.	STATION	ELEV.	STATION	ELEV.
TOE OF PARAPET (18'-4" LT.)	820+09.00	815.71	820+22.01	815.32	820+37.01	814.87
PROFILE GRADE	820+25.34	815.51	820+40.34	815.06	820+55.34	814.61
CONSTRUCTION JOINT (2'-0" RT.)	820+27.34	815.42	820+42.34	814.97	820+57.34	814.52
TOE OF PARAPET (22'-4" RT.)	820+47.67	814.49	820+62.67	814.04	820+77.67	813.59

FORWARD APPROACH SLAB FINISH ELEVATIONS						
LOCATION	BEGIN APPR. SLAB		1/2 PT.		END APPR. SLAB	
	STATION	ELEV.	STATION	ELEV.	STATION	ELEV.
TOE OF PARAPET (18'-4" LT.)	821+80.83	810.69	821+95.83	810.26	822+10.83	809.83
PROFILE GRADE	821+99.16	809.99	822+14.16	809.51	822+29.16	809.02
CONSTRUCTION JOINT (2'-0" RT.)	822+01.16	809.90	822+16.16	809.41	822+31.16	808.92
TOE OF PARAPET (22'-4" RT.)	822+21.49	808.92	822+36.49	808.39	822+49.67	807.88

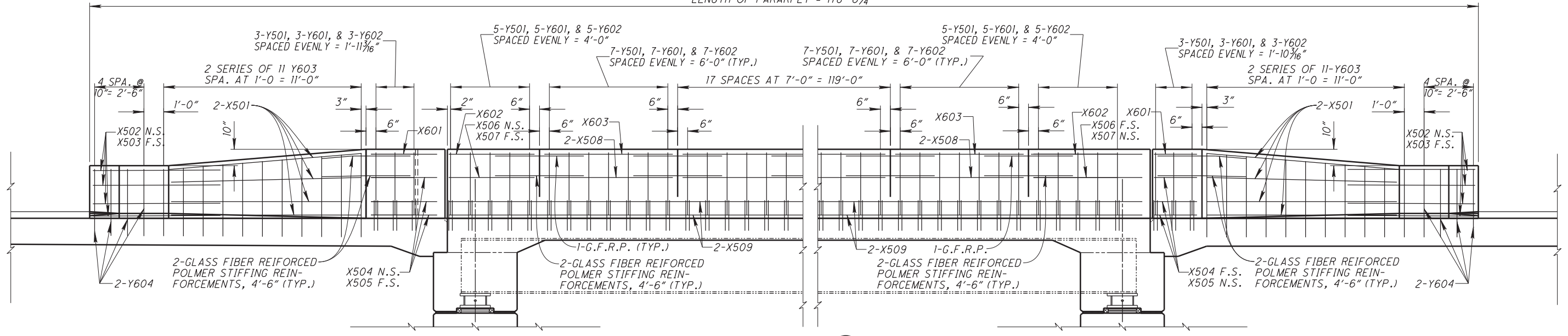
DESIGN AGENCY	OHIO DEPARTMENT OF TRANSPORTATION, DISTRICT 5
DATE	09/13/16
REVIEWED	JDR
DRAWN	CPS
DESIGNED	CPS
CHECKED	TAG
STRUCTURE FILE NUMBER	3003272
OVER C.R.	35
BRIDGE NO.	GUE-77-1474 (RIGHT BRIDGE)
PID No.	21631
GUE-77-VAR	
36/44	
84	
129	

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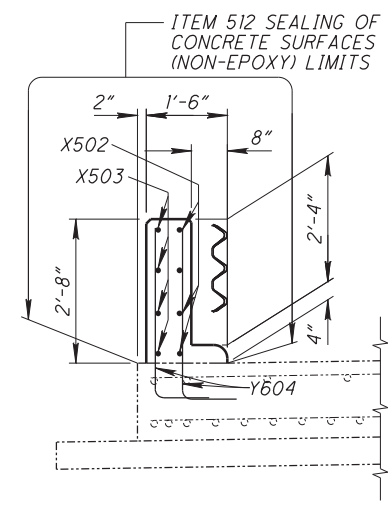


PLAN VIEW

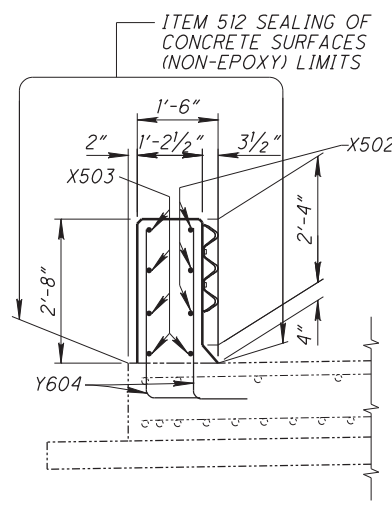
LENGTH OF PARAPET = 178'-6 3/4"



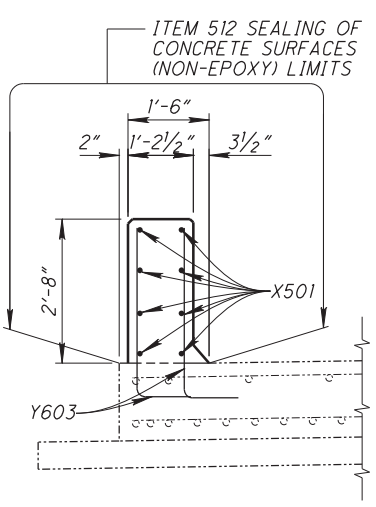
SECTION P-7



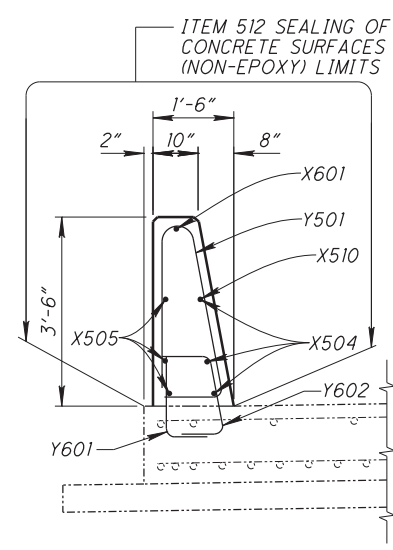
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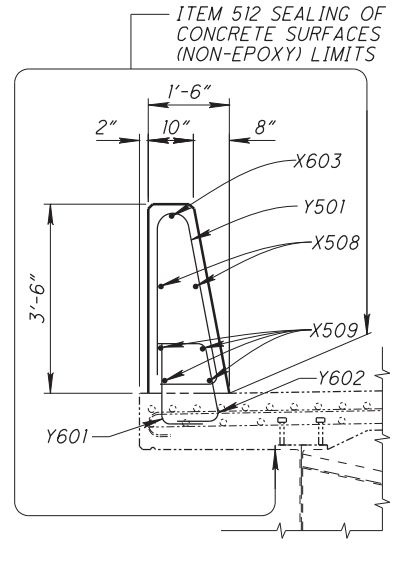
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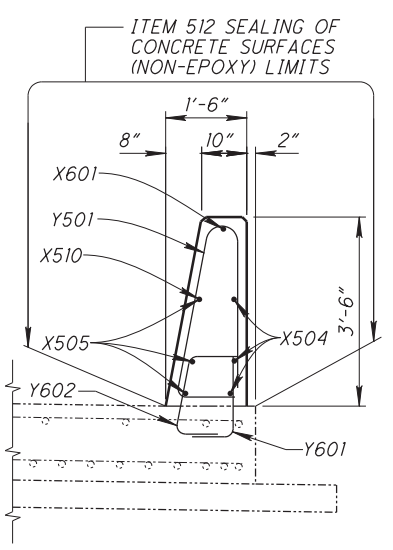
SECTION P-3



SECTION P-4



SECTION P-5



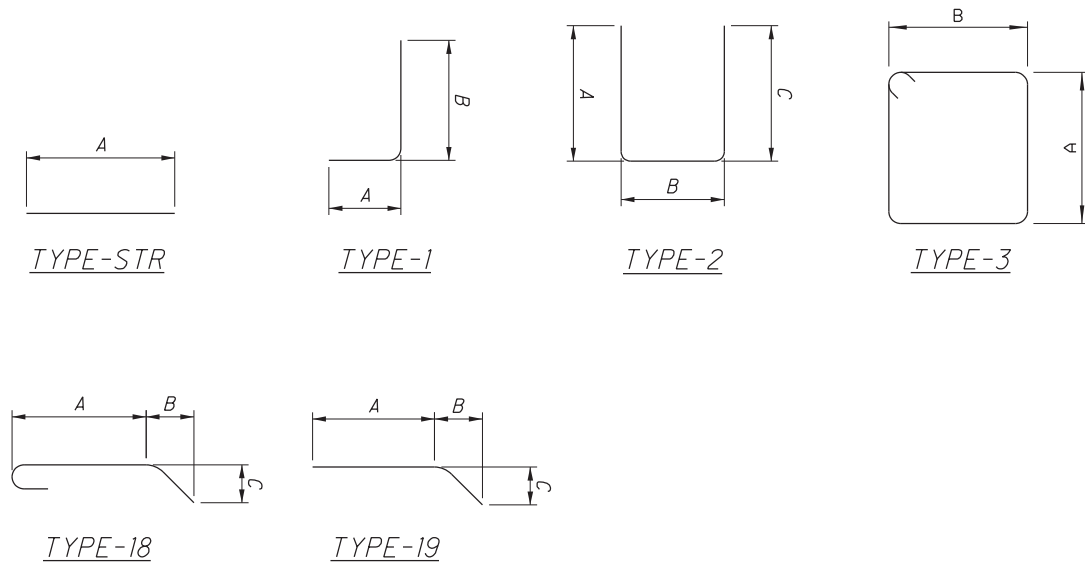
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DESIGN AGENCY		OHIO DEPARTMENT OF TRANSPORTATION, DISTRICT 5	
DATE	09/13/16	REVIEWED	JDR
STRUCTURE FILE NUMBER	3003248/3003272	CHECKED	TAG
DRAWN	CPS	DESIGNED	CPS
REVISED	---	CHECKED	TAG
PROPOSED PARAPET DETAILS			
BRIDGE NO. GUE-77-1474 (LEFT BRIDGE) OVER C.R. 35			
PID No. 21631		37/44	
GUE-77-VAR		85	
		129	

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MARK	NUMBER	LENGTH	WEIGHT	TYPE	DIMENSIONS						
	TOTAL				A	B	C	D	E	R	INC
REAR AND FORWARD ABUTMENTS (LEFT AND RIGHT BRIDGES)											
A501	24	16'-5"	411	3	5'-11"	2'-7"					
A502	5	20'-7"	107	2	9'-4"	2'-2"	9'-4"				
A503	5	22'-1"	115	2	10'-1"	2'-2"	10'-1"				
A504	5	8'-1"	42	STR.	8'-1"						
A505	1	5'-8"			1'-9"		1'-9"				
	SERIES OF TO	42	2	TO	2'-2"	TO				0'-7 1/2"	
A506	2	10'-11"	23	2	4'-3"		4'-3"				
A507	4	11'-7"	48	2	4'-6"	2'-2"	4'-6"				
A508	168	4'-3"	745	STR.	4'-3"						
A509	5	9'-3"	48	2	3'-8"	2'-2"	3'-8"				
A510	41	9'-9"	417	2	3'-8"	2'-8"	3'-8"				
A511	26	8'-10"	240	STR.	8'-10"						
A512	14	16'-3"	237	STR.	16'-3"						
A513	1	12'-1"	13	STR.	12'-1"						
A514	15	9'-11"	155	STR.	9'-11"						
A515	1	11'-0"	11	STR.	11'-0"						
A516	1	5'-10"	6	STR.	5'-10"						
A517	1	12'-8"	13	19	5'-0"	7'-0"	2'-11"				
A518	1	10'-6"	11	19	2'-10"	7'-0"	2'-11"				
A519	6	31'-0"	194	STR.	31'-0"						
A520	1	21'-1"	22	2	9'-2"	3'-0"	9'-2"				
A521	2	7'-5"			2'-9"		2'-9"				
	SERIES OF TO	76	2	TO	2'-2"	TO				0'-6 1/2"	
A522	2	14'-5"	30	2	4'-5"		4'-5"				
A523	40	8'-11"	372	2	6'-3"	2'-2"	6'-3"				
A524	4	5'-4"	22	STR.	5'-4"						
A525	8	7'-6"	63	STR.	7'-6"						
A526	2	4'-1"	9	STR.	4'-1"						
A527	2	6'-3"	13	STR.	6'-3"						
A528	2	5'-8"	12	19	1'-4"	4'-0"	1'-8"				
A529	2	7'-10"	16	19	3'-6"	4'-0"	1'-8"				
A530	6	30'-3"	189	STR.	30'-3"						
A531	4	22'-11"	96	2	10'-6"	2'-2"	10'-6"				
A532	1	23'-9"	25	2	10'-6"	3'-0"	10'-6"				
A533	2	15'-5"	32	2	6'-6"	2'-8"	6'-6"				
A534	6	33'-3"	208	STR.	33'-3"						
A535	3	8'-5"	26	2	3'-3"	2'-2"	3'-3"				
A536	6	20'-1"	126	2	9'-1"	2'-2"	9'-1"				
A537	1	4'-4"			2'-5"		2'-5"				
	SERIES OF TO	38	2	TO	2'-2"	TO				0'-5 1/2"	
A538	2	10'-7"	22	2	4'-4"	2'-2"	4'-4"				
A539	2	11'-6"	24	STR.	11'-6"						
A540	2	9'-4"	19	STR.	9'-4"						
A541	1	6'-8"	7	STR.	6'-8"						
A542	1	11'-10"	12	19	5'-0"	6'-6"	2'-0"				
A543	1	9'-7"	10	19	2'-10"	6'-6"	2'-0"				
A544	6	28'-0"	175	STR.	28'-0"						
CARRIED SUB-TOTAL			4,522								

MARK	NUMBER	LENGTH	WEIGHT	TYPE	DIMENSIONS						
	TOTAL				A	B	C	D	E	R	INC
REAR AND FORWARD ABUTMENTS (LEFT BRIDGE)											
CARRIED SUB-TOTAL			4,522								
A801	16	8'-10"	377	STR.	8'-10"						
A802	1	31'-0"			31'-0"						
	SERIES OF TO	346	3	TO						0'-11 3/4"	
A803	4	33'-9"	323	STR.	33'-9"						
A804	4	33'-3"	355	STR.	33'-3"						
A805	1	28'-0"			28'-0"						
	SERIES OF TO	315	3	TO						0'-11 3/4"	
A805	4	30'-11"			30'-11"						
	ABUTMENTS SUB-TOTAL	6,238									
REAR AND FORWARD DIAPHRAGMS (LEFT BRIDGE)											
D401	4	3'-9"	10	STR.	3'-9"						
D501	124	8'-10"	1,142	2	2'-8"	3'-9"	2'-8"				
D502	68	8'-5"	597	2	2'-10"	3'-0"	2'-10"				
D503	6	10'-11"	69	3	1'-5"	3'-9"					
D801	6	22'-5"	359	1	1'-0"	21'-6"					
D802	12	5'-0"	160	1	1'-0"	4'-1"					
D803	8	5'-7"	119	18	3'-3"	1'-0"	1'-0"				
D804	36	30'-10"	2,964	STR.	30'-10"						
D805	8	30'-5"	650	STR.	30'-5"						
D806	64	6'-4"	1,082	18	4'-0"	1'-0"	1'-0"				
D807	2	22'-0"	117	1	1'-0"	21'-1"					
D808	4	22'-5"	239	1	1'-0"	2'-6"					
DIAPHRAGMS SUB-TOTAL			7,508								



REINFORCING STEEL SCHEDULE

GUE-77-1474 (LEFT BRIDGE)
OVER C.R. 35

DESIGN AGENCY: OHIO DEPARTMENT OF TRANSPORTATION, DISTRICT 5
DATE: 09/13/16
REVIEWED: JDR
DRAWN: CPS
DESIGNED: CPS
CHECKED: TAG
STRUCTURE FILE NUMBER: 3003248
REVISED: ---

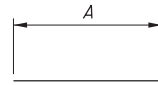
GUE-77-VAR
PID No. 21631

38/44

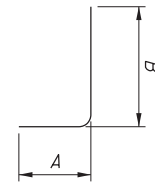
86
129

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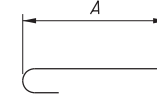
MARK	NUMBER TOTAL	LENGTH	WEIGHT	TYPE	DIMENSIONS						
					A	B	C	D	E	R	INC
BRIDGE DECK (LEFT BRIDGE)											
S401	12	3'-0"	24	STR.	3'-0"						
S402	200	40'-0"	5,344	STR.	40'-0"						
S403	580	8'-9"	3,390	16	8'-3"						
S501	44	5'-0"	229	STR.	5'-0"						
S502	4	5'-3"			5'-3"						
	SERIES OF 36	TO 21'-10"	2,034	STR.	TO 21'-10"						0'-5 1/16"
S503	476	21'-10"	10,840	STR.	21'-10"						
S504	192	40'-0"	8,010	STR.	40'-0"						
S505	44	5'-7"	249	16	5'-0"						
S506	4	5'-10"			5'-3"						
	SERIES OF 36	TO 22'-5"	2,121	16	TO 21'-10"						0'-5 1/16"
S507	506	22'-5"	11,831	16	21'-10"						
S508	96	51'-0"	5,107	STR.	51'-0"						
DECK SUB-TOTAL			49,179								
PARAPETS (LEFT BRIDGE)											
X501	32	10'-0"	334	STR.	10'-0"						
X502	16	5'-8"	95	25	1'-10"	2'-5"	1'-4"	0'-1 1/2"	0'-5"		
X503	16	5'-8"	95	STR.	5'-8"						
X504	12	3'-3"	41	STR.	3'-3"						
X505	12	2'-1"	26	STR.	2'-1"						
X506	4	4'-9"	20	STR.	4'-9"						
X507	4	5'-5"	23	STR.	5'-5"						
X508	76	6'-6"	515	STR.	6'-6"						
X509	32	37'-6"	1,252	STR.	37'-6"						
X601	4	2'-4"	14	STR.	2'-4"						
X602	4	5'-2"	31	STR.	5'-2"						
X603	38	6'-6"	371	STR.	6'-6"						
Y501	298	5'-8"	1,761	23	1'-10"	2'-5"	1'-4"				
Y601	298	2'-5"	1,082	1	1'-0"	1'-7"					
Y602	298	3'-2"	1,417	28	1'-7"	0'-11"	1'-0"				
	8	4'-3"				3'-5"					
Y603	SERIES OF 11	TO 5'-1"	617	1	1'-0"	TO 4'-3"					0'-1"
Y604	32	4'-3"	204	1	1'-0"	3'-5"					
PARAPETS SUB-TOTAL			7,898								
ABUTMENTS SUB-TOTAL			6,238								
DIAPHRAGMS SUB-TOTAL			7,508								
DECKS SUB-TOTAL			49,179								
PARAPET SUB-TOTAL			7,898								
LEFT BRIDGE GRAND TOTAL			70,823								



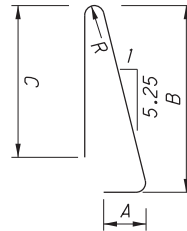
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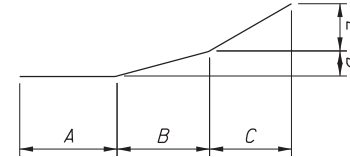
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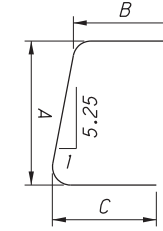
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TYPE-23



TYPE-25



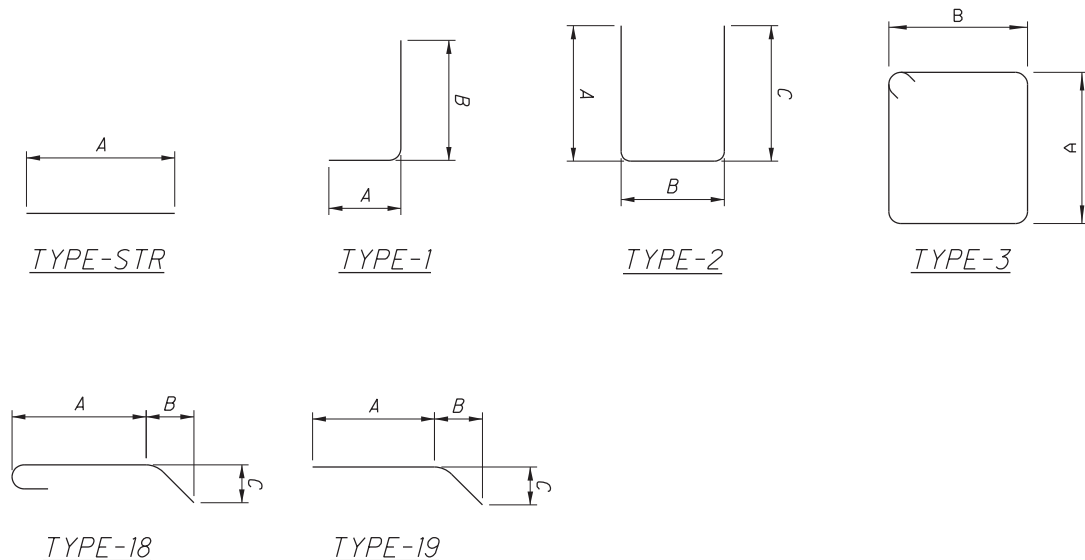
TYPE-28

REINFORCING STEEL SCHEDULE GUE-77-1474 (LEFT BRIDGE) OVER C.R. 35	DESIGN AGENCY OHIO DEPARTMENT OF TRANSPORTATION, DISTRICT 5	DATE 09/13/16 REVIEWED JDR STRUCTURE FILE NUMBER 3003248
DESIGNED CPS CHECKED TAG	DRAWN CPS REVISED ---	DESIGN AGENCY OHIO DEPARTMENT OF TRANSPORTATION, DISTRICT 5
GUE-77-VAR PID No. 21631	39/44	87 129

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MARK	NUMBER	LENGTH	WEIGHT	TYPE	DIMENSIONS					
	TOTAL				A	B	C	D	E	R
REAR AND FORWARD ABUTMENTS (RIGHT BRIDGE)										
A501	24	16'-5"	411	3	5'-11"	2'-7"				
A502	5	20'-7"	107	2	9'-4"	2'-2"	9'-4"			
A503	5	22'-1"	115	2	10'-1"	2'-2"	10'-1"			
A504	5	8'-1"	42	STR.	8'-1"					
A505	1	5'-8"			1'-9"		1'-9"			
	SERIES OF TO	42	2	TO	2'-2"	TO			0'-7 1/2"	
A506	2	10'-11"	23	2	4'-6"	2'-2"	4'-6"			
A507	4	11'-7"	48	2	4'-5"	3'-0"	4'-5"			
A508	123	4'-3"	545	STR.	4'-3"					
A509	3	9'-3"	29	2	3'-8"	2'-2"	3'-8"			
A510	21	9'-9"	214	2	3'-8"	2'-8"	3'-8"			
A511	25	8'-10"	230	STR.	8'-10"					
A512	14	16'-3"	237	STR.	16'-3"					
A513	** NOT USED ON RIGHT BRIDGE **									
A514	6	9'-11"	62	STR.	9'-11"					
A515	** NOT USED ON RIGHT BRIDGE **									
A516	1	5'-10"	6	STR.	5'-10"					
A517	** NOT USED ON RIGHT BRIDGE **									
A518	** NOT USED ON RIGHT BRIDGE **									
A519	6	31'-0"	194	STR.	31'-0"					
A520	1	21'-1"	22	2	9'-2"	3'-0"	9'-2"			
	2	7'-5"			2'-9"		2'-9"			
A521	SERIES OF TO	76	2	TO	2'-2"	TO			0'-6 1/2"	
	4	10'-9"			4'-5"		4'-5"			
A522	2	14'-5"	30	2	6'-3"	2'-2"	6'-3"			
A523	32	8'-11"	298	2	3'-3"	2'-8"	3'-3"			
A524	4	5'-4"	22	STR.	5'-4"					
A525	8	7'-6"	63	STR.	7'-6"					
A526	47	4'-1"	200	STR.	4'-1"					
A527	2	6'-3"	13	STR.	6'-3"					
A528	2	5'-8"	12	19	1'-4"	4'-0"	1'-8"			
A529	2	7'-10"	16	19	3'-6"	4'-0"	1'-8"			
A530	6	30'-3"	189	STR.	30'-3"					
A531	4	22'-11"	96	2	10'-6"	2'-2"	10'-6"			
A532	1	23'-9"	25	2	10'-6"	3'-0"	10'-6"			
A533	2	15'-5"	32	2	6'-6"	2'-8"	6'-6"			
A534	6	33'-3"	208	STR.	33'-3"					
A535	** NOT USED ON RIGHT BRIDGE **									
A536	6	20'-1"	126	2	9'-1"	2'-2"	9'-1"			
	1	4'-4"			2'-5"		2'-5"			
A537	SERIES OF TO	38	2	TO	2'-2"	TO			0'-5 1/2"	
	5	10'-5"			4'-3"		4'-3"			
A538	2	10'-7"	22	2	4'-4"	2'-2"	4'-4"			
A539	12	11'-6"	144	STR.	11'-6"					
A540	4	9'-4"	39	STR.	9'-4"					
A541	1	6'-8"	7	STR.	6'-8"					
A542	1	11'-10"	12	19	5'-0"	6'-6"	2'-0"			
A543	1	9'-7"	10	19	2'-10"	6'-6"	2'-0"			
A544	6	28'-0"	175	STR.	28'-0"					
A545	1	5'-8"	6	19	5'-0"	6'-6"	2'-7"			
A546	1	7'-10"	8	19	2'-10"	6'-6"	2'-7"			
A547	2	7'-11"	17	2	3'-0"	2'-2"	3'-0"			
A548	9	8'-5"	79	2	3'-0"	2'-8"	3'-0"			
A549	21	10'-5"	228	2	4'-0"	2'-8"	4'-0"			
CARRIED SUB-TOTAL			4,518							

MARK	NUMBER	LENGTH	WEIGHT	TYPE	DIMENSIONS					
	TOTAL				A	B	C	D	E	R
REAR AND FORWARD ABUTMENTS (RIGHT BRIDGE)										
CARRIED SUB-TOTAL			4,518							
A801	16	8'-10"	377	STR.	8'-10"					
A802	1	31'-0"			31'-0"					
	SERIES OF TO	346	STR.	TO				0'-11 3/4"		
A803	4	33'-9"	323	STR.	33'-9"					
A804	4	33'-3"	355	STR.	33'-3"					
A805	1	28'-0"			28'-0"					
	SERIES OF TO	315	3	TO				0'-11 3/4"		
A805	4	30'-11"			30'-11"					
ABUTMENTS SUB-TOTAL			6,234							
REAR AND FORWARD DIAPHRAGMS (RIGHT BRIDGE)										
D401	4	3'-9"	10	STR.	3'-9"					
D501	124	8'-10"	1,142	2	2'-8"	3'-9"	2'-8"			
D502	68	8'-5"	597	2	2'-10"	3'-0"	2'-10"			
D503	6	10'-11"	69	3	1'-5"	3'-9"				
D801	6	22'-5"	359	1	1'-0"	21'-6"				
D802	12	5'-0"	160	1	1'-0"	4'-1"				
D803	8	5'-7"	119	18	3'-3"	1'-0"	1'-0"			
D804	36	30'-10"	2,964	STR.	30'-10"					
D805	8	30'-5"	650	STR.	30'-5"					
D806	64	6'-4"	1,082	18	4'-0"	1'-0"	1'-0"			
D807	2	22'-0"	117	1	1'-0"	21'-1"				
D808	4	22'-5"	239	1	1'-0"	21'-6"				
DIAPHRAGMS SUB-TOTAL			7,508							



REINFORCING STEEL SCHEDULE
GUE-77-1474 (RIGHT BRIDGE)
OVER C.R. 35

DESIGNED	CPS	CHECKED	TAG
DRAWN	CPS	REVISED	---
REVIEWED	JDR	STRUCTURE FILE NUMBER	3003272
DATE	09/13/16	DESIGN AGENCY	OHIO DEPARTMENT OF TRANSPORTATION, DISTRICT 5

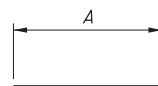
GUE-77-VAR
PID No. 21631

40/44

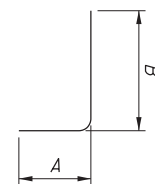
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129

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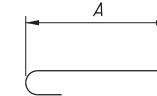
MARK	NUMBER TOTAL	LENGTH	WEIGHT	TYPE	DIMENSIONS						
					A	B	C	D	E	R	INC
BRIDGE DECK (RIGHT BRIDGE)											
S401	12	3'-0"	24	STR.	3'-0"						
S402	200	40'-0"	5,344	STR.	40'-0"						
S403	580	8'-9"	3,390	16	8'-3"						
S501	44	5'-0"	229	STR.	5'-0"						
S502	4	5'-3"			5'-3"						
	SERIES OF 36	TO 21'-10"	2,034	STR.	TO 21'-10"						0'-5 1/16"
S503	476	21'-10"	10,840	STR.	21'-10"						
S504	192	40'-0"	8,010	STR.	40'-0"						
S505	44	5'-7"	249	16	5'-0"						
S506	4	5'-10"			5'-3"						
	SERIES OF 36	TO 22'-5"	2,121	16	TO 21'-10"						0'-5 1/16"
S507	506	22'-5"	11,831	16	21'-10"						
S508	96	51'-0"	5,107	STR.	51'-0"						
DECK SUB-TOTAL			49,179								
PARAPETS (RIGHT BRIDGE)											
X501	32	10'-0"	334	STR.	10'-0"						
X502	16	5'-8"	95	25	1'-10"	2'-5"	1'-4"	0'-1 1/2"	0'-5"		
X503	16	5'-8"	95	STR.	5'-8"						
X504	12	3'-3"	41	STR.	3'-3"						
X505	12	2'-1"	26	STR.	2'-1"						
X506	4	4'-9"	20	STR.	4'-9"						
X507	4	5'-5"	23	STR.	5'-5"						
X508	76	6'-6"	515	STR.	6'-6"						
X509	32	37'-6"	1,252	STR.	37'-6"						
X601	4	2'-4"	14	STR.	2'-4"						
X602	4	5'-2"	31	STR.	5'-2"						
X603	38	6'-6"	371	STR.	6'-6"						
Y501	298	5'-8"	1,761	23	1'-10"	2'-5"	1'-4"				
Y601	298	2'-5"	1,082	1	1'-0"	1'-7"					
Y602	298	3'-2"	1,417	28	1'-7"	0'-11"	1'-0"				
	8	4'-3"				3'-5"					
Y603	SERIES OF 11	TO 5'-1"	617	1	1'-0"	TO 4'-3"					0'-1"
Y604	32	4'-3"	204	1	1'-0"	3'-5"					
PARAPETS SUB-TOTAL			7,898								
ABUTMENTS SUB-TOTAL			6,234								
DIAPHRAGMS SUB-TOTAL			7,508								
DECKS SUB-TOTAL			49,179								
PARAPET SUB-TOTAL			7,898								
RIGHT BRIDGE GRAND TOTAL			70,819								



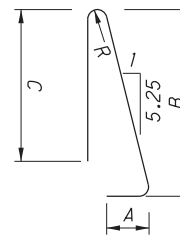
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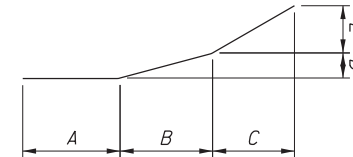
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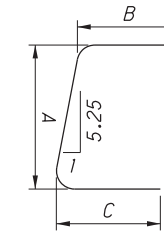
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TYPE-23



TYPE-25



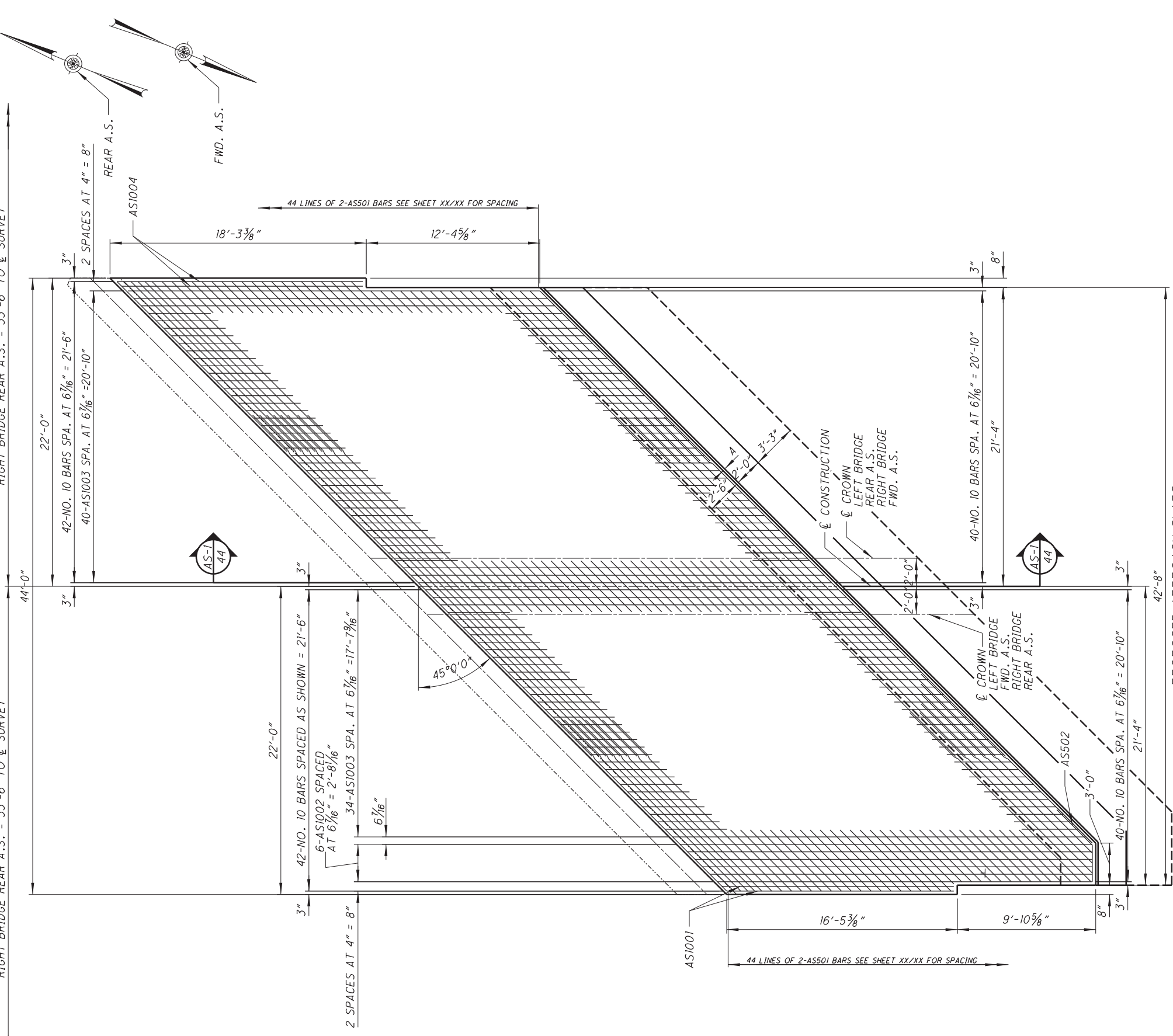
TYPE-28

REINFORCING STEEL SCHEDULE	DESIGN AGENCY OHIO DEPARTMENT OF TRANSPORTATION, DISTRICT 5
GUE-77-VAR PID No. 21631	DESIGNED CPS CHECKED TAG
GUE-77-1474 (RIGHT BRIDGE) OVER C.R. 35	DRAWN CPS REVISED ---
41/44	REVIEWED JDR STRUCTURE FILE NUMBER 3003272
89 129	DATE 09/13/16

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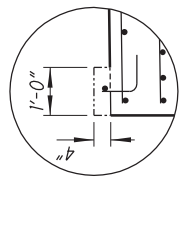
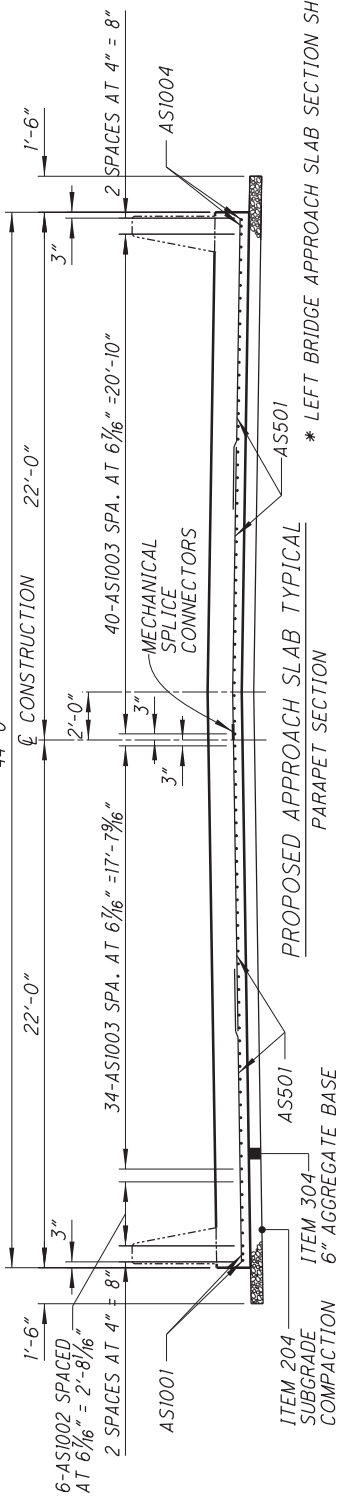
LEFT BRIDGE FORWARD A.S. = 34'-6" TO \bar{C} SURVEY
 RIGHT BRIDGE REAR A.S. = 33'-6" TO \bar{C} SURVEY

LEFT BRIDGE REAR A.S. = 34'-6" TO \bar{C} SURVEY
 RIGHT BRIDGE REAR A.S. = 33'-6" TO \bar{C} SURVEY

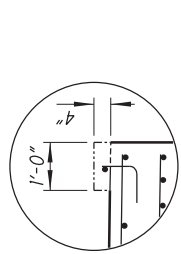


PROPOSED APPROACH SLABS

LEFT BRIDGE (REAR APPROACH SLAB) STA. 819+59.34 TO STA. 819+89.34 = 30.00'
 LEFT BRIDGE (FORWARD APPROACH SLAB) STA. 821+33.17 TO STA. 821+63.17 = 30.00'
 RIGHT BRIDGE (REAR APPROACH SLAB) STA. 820+25.34 TO STA. 820+55.34 = 30.00'
 RIGHT BRIDGE (FORWARD APPROACH SLAB) STA. 822+01.16 TO STA. 822+31.17 = 30.00'



CURB ON APPROACH SLABS (TYPICAL)



CURB ON APPROACH SLABS (TYPICAL)

GUE-77-VAR
 PID No. 21631

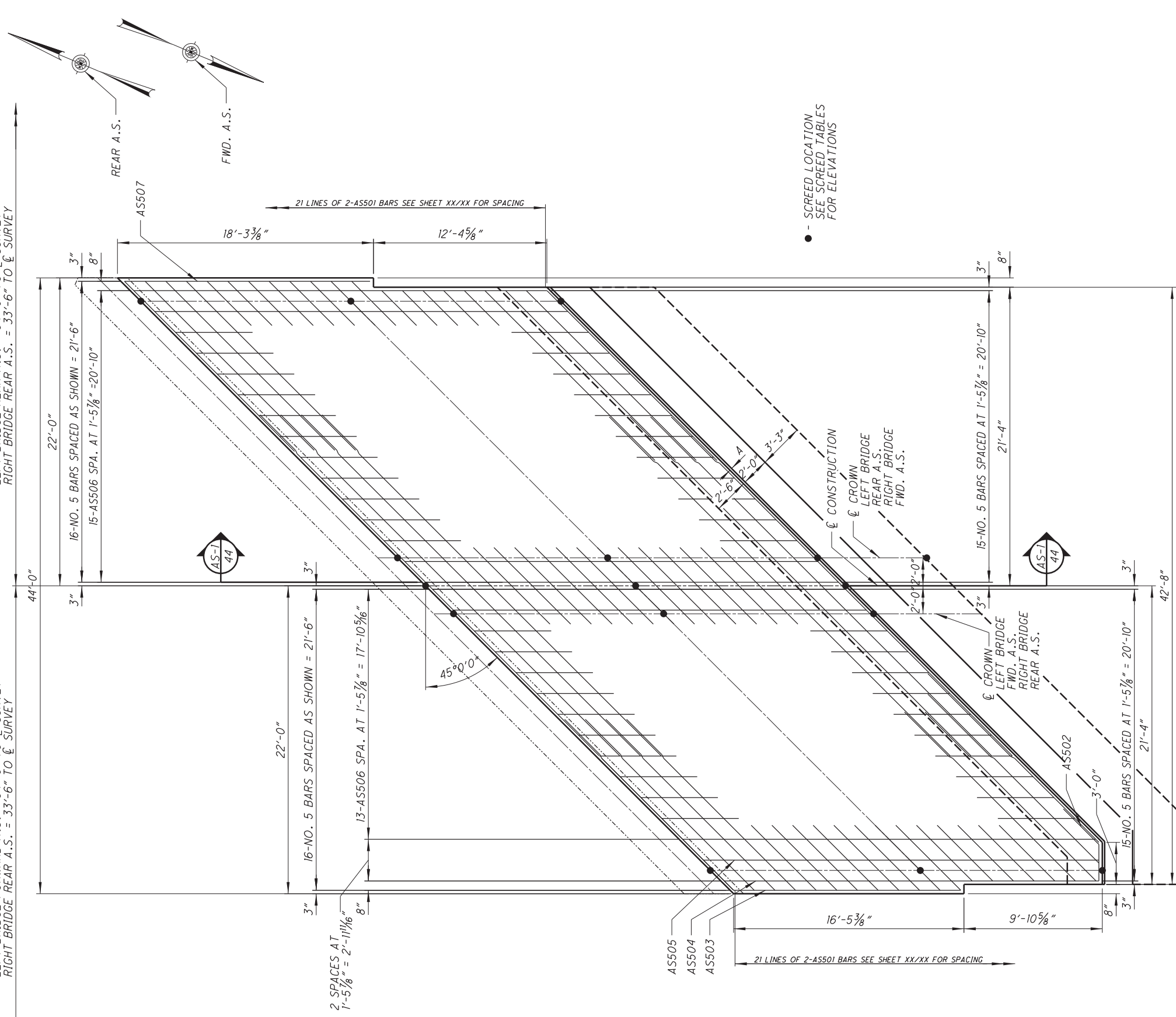
REAR AND FORWARD APPROACH SLAB DETAILS (BOTTOM MAT)
 BRIDGE NO. GUE-77-1474 (LEFT & RIGHT BRIDGES)
 OVER C.R. 35

DESIGNED	CPS	CHECKED	TAG
DRAWN	CPS	REVISED	---
REVIEWED	JDR	DATE	09/13/16
STRUCTURE FILE NUMBER	3003248/3003272		

DESIGN AGENCY
 OHIO DEPARTMENT OF
 TRANSPORTATION, DISTRICT 5

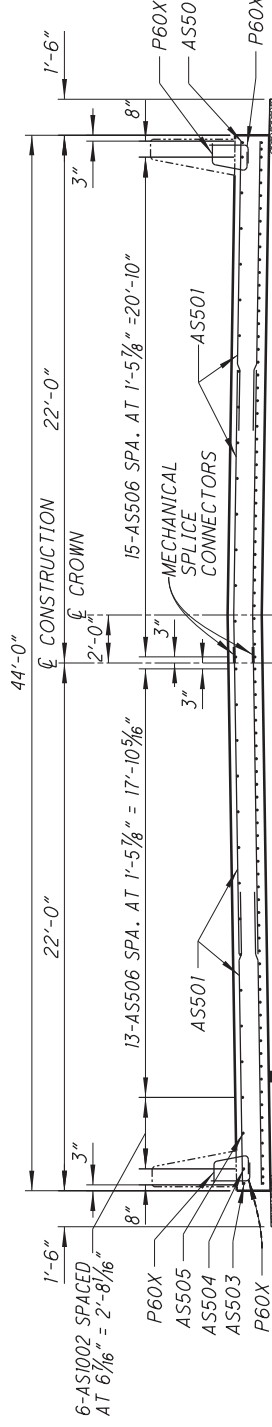
LEFT BRIDGE FORWARD A.S. = 34'-6" TO \bar{C} SURVEY
RIGHT BRIDGE REAR A.S. = 33'-6" TO \bar{C} SURVEY

LEFT BRIDGE REAR A.S. = 34'-6" TO \bar{C} SURVEY
RIGHT BRIDGE REAR A.S. = 33'-6" TO \bar{C} SURVEY



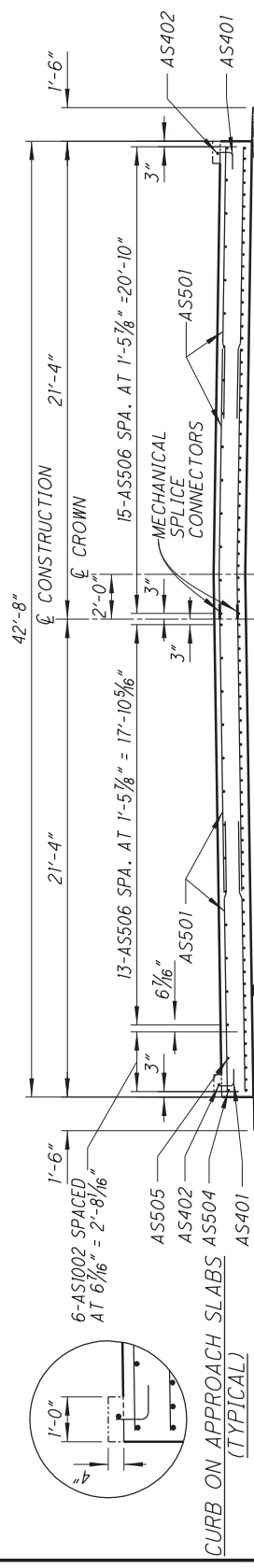
PROPOSED APPROACH SLABS

LEFT BRIDGE (REAR APPROACH SLAB) STA. 819+59.34 TO STA. 819+89.34 = 30.00'
LEFT BRIDGE (FORWARD APPROACH SLAB) STA. 821+33.17 TO STA. 821+63.17 = 30.00'
RIGHT BRIDGE (REAR APPROACH SLAB) STA. 820+25.34 TO STA. 820+55.34 = 30.00'
RIGHT BRIDGE (FORWARD APPROACH SLAB) STA. 822+01.16 TO STA. 822+31.17 = 30.00'



PROPOSED APPROACH SLAB TYPICAL PARAPET SECTION

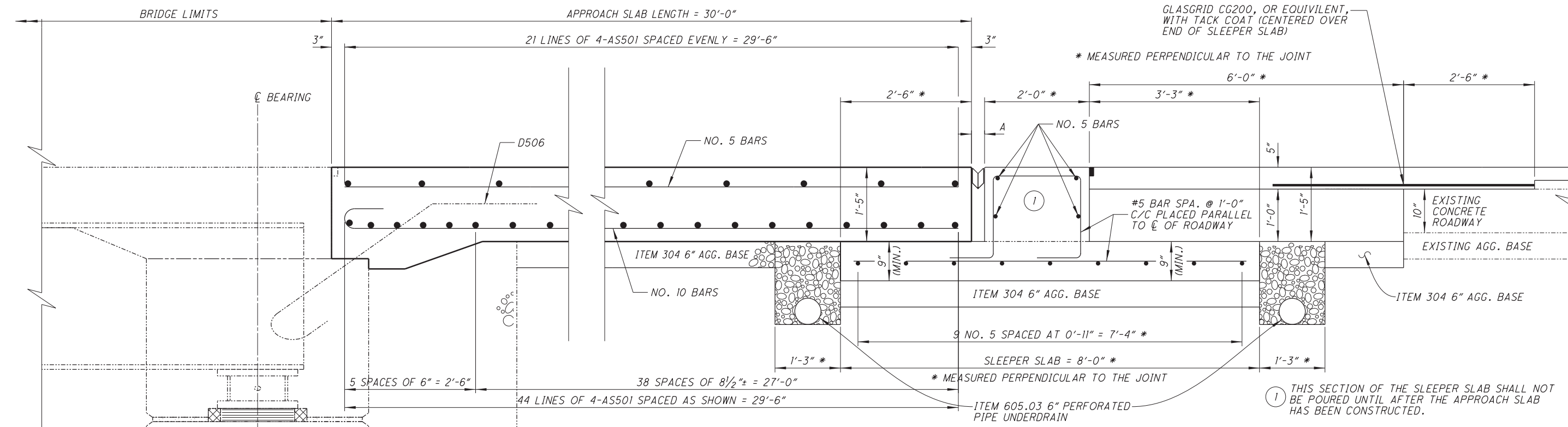
* LEFT BRIDGE APPROACH SLAB SECTION SHOWN



CURB ON APPROACH SLABS (TYPICAL)

PROPOSED APPROACH SLAB TYPICAL CURB SECTION

* LEFT BRIDGE APPROACH SLAB SECTION SHOWN



ITEM	DESCRIPTION	QUANT'Y	UNIT
203	** EXCAVATION	179	CU YD
203	** EMBANKMENT	36	CU YD
204	SUBGRADE COMPACTION	691	SQ YD
304	AGGREGATE BASE	115	CU YD
516	* 2" DEEP JOINT SEALER, AS PER PLAN	214	FT
516	* STRUCTURAL JOINT OR JOINT SEALER, MISC: JEENE SEAL WITH SLEEPER SLAB	236	FT
526	* REINFORCED CONCRETE APPROACH SLABS WITH OC/OA (T=17"), AS PER PLAN	289	SQ YD
690	** SPECIAL - REINFORCED MESH FOR TRANSVERSE AND/OR LONGITUDINAL JOINTS AND CRACKS	116	SQ YD

CARRIED TO (*) BRIDGE SUMMARY or (**) GENERAL SUMMARY
NOTE: ALL QUANTITIES SHOWN ARE FOR 4 APPROACH SLABS.

ITEM 516-STRUCTURAL JOINT OR JOINT SEALER, MISC: JEENE SEAL WITH SLEEPER SLAB JEENE SEAL: FURNISH MATERIAL CONFORMING TO 705.11. THE SEAL CONFIGURATION SHOULD BE SIMILAR TO THE DETAILS SHOWN HERIN. ACCEPTED MANUFACTURES ARE: WATSON BOWMAN ACME CORP. (MODEL JEENE W PROFILE 65W) OR AN APPROVED EQUIVALENT. INSTALL THE SEAL ACCORDING TO THE MANUFACTURE'S SPECIFICATIONS AND UNDER THE SUPERVISION OF THE MANUFACTURE'S DESIGNATED REPRESENTATIVE. FURNISH SEALS IN ONE CONTIUOUS PIECE UNLESS APPROVED BY THE ENGINEER.

BOND BREAKER: A BOND BREAKER CONSISTING OF TWO 4 FOOT SHEETS OF CLEAR OR OPAQUE POLY-ETHYLENE FILM, ITEM 705.06, SHALL BE CENTERED ON THE SLEEPER SLAB AND BELOW THE APPROACH SLAB, WHERE NOTED. CARE SHALL BE TAKEN IN THE AREA BENEATH THE POLYETHYLENE FILM TO ENSURE THE SURFACE OF THE SLEEPER SLAB IS FINISHED SMOOTH. THE FILM SHALL HAVE A NOMINAL THICKNESS OF 4 MILS.

PAYMENT: MEASUREMENT OF THE EXPANSION JOINT FOR PAYMENT PURPOSES SHALL BE ALONG THE CENTERLINE OF THE SLEEPER SLAB AND BETWEEN THE BACKS OF CURB. PAYMENT SHALL BE PER FOOT OF ITEM 516 - STRUCTURAL JOINT OR JOINT SEALER, MISC: JEENE SEAL WITH SLEEPER SLAB AND SHALL INCLUDE 65W JEENE SEAL AS PROVIDED BY WATSON BOWMAN ACME CORPORATION, AMHERST, NEW YORK (800) 677-4922 OR AN APPROVED EQUAL, CONCRETE SLEEPER SLAB, RESTEEL AND ALL LABOR, MATERIALS AND INCIDENTALS NEEDED TO CONSTRUCT THE JOINT AS SHOWN, INCLUDING THE PIPE UNDERDRAINS. THE UNDERDRAINS SHALL BE INSTALLED AS PER C&MS ITEM 605.03 - 6" PIPE UNDERDRAIN (707.31) AND WILL INLCUDE THE NECESSARY GRANULAR MATERIAL.

MARK	NUMBER REQ'D.	LENGTH	WEIGHT	TYPE	DIMENSIONS				
					A	B	C	R	INC.
APPROACH SLABS									
AS401	100	1'-7"	106	1	0'-10"	0'-10"			
AS402	16	7'-6"	80	STR.	7'-6"				
AS501	1,040	17'-2"	18,621	STR.	17'-2"				
AS502	8	6'-4"	53	19	2'-9"	2'-6"	2'-6"		
AS503	4	16'-2"	67	STR.	16'-2"				
AS504	4	26'-9"	112	STR.	26'-9"				
AS505	4	28'-3"	118	STR.	28'-3"				
AS506	112	29'-6"	3,446	STR.	29'-6"				
AS507	4	17'-6"	73	STR.	17'-6"				
AS1001	8	17'-2"	591	16	16'-3"				
	4	27'-8"			26'-9"				
AS1002	SERIES OF	TO	3,021	16	TO				6 5/16"
	6	30'-10"			29'-5"				
AS1003	296	30'-11"	39,378	16	29'-6"				
AS1004	8	18'-2"	625	16	17'-3"				
APPROACH SLAB TOTAL			66,291						

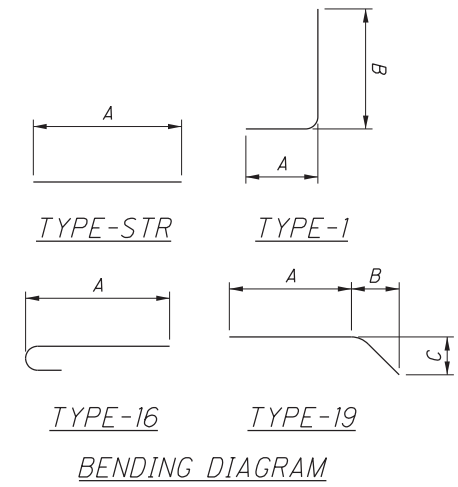
CURB AND RE-STEEL IS INCLUDED FOR PAYMENT WITH ITEM 526 REINFORCED CONCRETE APPROACH SLABS WITH OC/OA (T=17"), AS PER PLAN

ITEM 304 - AGGREGATE BASE:
 (4'-8 1/2" UNDER SLEEPER SLAB X 0.50' X 36.29' / 27) X 2 APPROACH SLABS = 6.33 CY.
 AN ADDITIONAL 5 C.Y. OF MATERIAL IS TO BE USED AS DIRECTED BY THE ENGINEER TO SPOT LEVEL THE EXISITNG AGGREGATE BASE MATERIAL UPON REMOVAL OF THE EXISITNG APPROACH SLABS. THIS IS TO CORRECT ANY OBSERVED PROBLEMS WITH EXISITNG BASE AND BRING TO PROPOSED GRADE.
 TOTAL = 11 C.Y.

NOTE:
 TYPE "A" WATERPROOFING SHALL NOT EXTEND ABOVE THE BOTTOM OF THE CUT GROOVE IN WHICH THE HOT APPLIED JOINT SEALER IS TO BE PLACED. IT SHALL BE APPLIED TO THE ENTIRE AREA OF THE ABUTMENT OR SUPERSTRUCTURE WHICH COMES INTO CONTACT WITH THE APPROACH SLAB.

NOTE:
 FOR ADDITIONAL DETAILS SEE STANDARD DRAWING AS-1-81.
 NOTE:
 FOR APPROACH SLAB FINISH ELEVATIONS, SEE SHEET 0.

AMBIENT TEMP. (°F)	DIMENSION "A"	
	REAR & FWD. APPR. SLABS (65W SEAL)	
90°	1 3/4"	
80°	1 1/8"	
70°	2"	
60°	2 3/16"	
50°	2 5/16"	
40°	2 7/16"	



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