

UTILITIES

LISTED BELOW ARE ALL UTILITIES LOCATED WITHIN THE PROJECT CONSTRUCTION LIMITS TOGETHER WITH THEIR RESPECTIVE OWNERS:

AES OHIO
1900 DRYDEN ROAD
DAYTON, OHIO 45439
937-331-4521 (WILLIAM GOURLEY)
WILLIAM.GOURLEY@AES.COM

CHARTER COMMUNICATIONS
10920 KENWOOD ROAD
BLUE ASH, OHIO 45242
513-386-5499 (KENT RIEGER)
KENT.RIEGER@CHARTER.COM

FRONTIER COMMUNICATIONS
241 SOUTH NELSON AVENUE
WILMINGTON, OHIO 45177
937-283-5735 (DAVID LONGWORTH)
DAVID.M.LONGWORTH@FTR.COM

THE LOCATION OF THE UNDERGROUND UTILITIES SHOWN ON THE PLANS ARE AS OBTAINED FROM THE OWNERS AS REQUIRED BY SECTION 153.64 O.R.C.

WORK LIMITS

THE WORK LIMITS SHOWN ON THESE PLANS ARE FOR PHYSICAL CONSTRUCTION ONLY. PROVIDE THE INSTALLATION AND OPERATION OF ALL WORK ZONE TRAFFIC CONTROL AND WORK ZONE TRAFFIC CONTROL DEVICES REQUIRED BY THESE PLANS WHETHER INSIDE OR OUTSIDE THESE WORK LIMITS.

CLEARING AND GRUBBING

ALTHOUGH THERE ARE NO TREES OR STUMPS SPECIFICALLY MARKED FOR REMOVAL WITHIN THE LIMITS OF THE PROJECT, A LUMP SUM QUANTITY IS INCLUDED IN THE GENERAL SUMMARY FOR ITEM 201, CLEARING AND GRUBBING. ALL PROVISIONS AS SET FORTH IN THE SPECIFICATIONS UNDER THIS ITEM ARE INCLUDED IN THE LUMP SUM PRICE BID FOR ITEM 201, CLEARING AND GRUBBING.

SEEDING AND MULCHING

THE FOLLOWING QUANTITIES ARE PROVIDED TO PROMOTE GROWTH AND CARE OF PERMANENT SEEDED AREAS:

659, TOPSOIL	511 CU. YD.
659, SEEDING AND MULCHING	4,605 SQ. YD.
659, REPAIR SEEDING AND MULCHING	230 SQ. YD.
659, COMMERCIAL FERTILIZER	0.62 TON
659, LIME	0.95 ACRES
659, WATER	24.9 M. GAL.

ITEM 203 EMBANKMENT, AS PER PLAN

PLACE AND COMPACT EMBANKMENT MATERIAL IN 6 INCH LIFTS FOR THE CONSTRUCTION OF THE APPROACH EMBANKMENT.

WINDOW CONTRACT TABLE

USE THE FOLLOWING TABLE AS REFERRED TO IN THE PROPOSAL:

DESCRIPTION OR LOCATION OF CRITICAL WORK	CALENDER DAYS TO COMPLETE	DISINCENTIVE \$ PER DAY	WORK WINDOW	
			START	END
COMPLETE ALL WORK REQUIRING CLOSURE OF ALL LANES OF TRAFFIC AND DETOUR & RETURN TRAFFIC TO THE ORIGINAL LANE CONFIGURATION	273	\$1,300	CONTRACT EXECUTION DATE	11/1/2025

SURVEYING PARAMETERS

PRIMARY PROJECT CONTROL MONUMENTS GOVERN ALL POSITIONING ON ODOT PROJECTS. SEE SHEET 22 OF THE PLANS FOR A TABLE CONTAINING PROJECT CONTROL INFORMATION. USE THE FOLLOWING PROJECT CONTROL, VERTICAL POSITIONING, AND HORIZONTAL POSITIONING PARAMETERS FOR ALL SURVEYING:

PROJECT CONTROL
POSITIONING METHOD: O.D.O.T. VRS
MONUMENT TYPE: IRON PINS

VERTICAL POSITIONING
ORTHOMETRIC HEIGHT DATUM: NAVD88
GEOID: GEOID 12B

HORIZONTAL POSITIONING
REFERENCE FRAME: NAD83 (2011)
ELLIPSOID: GRS 80
MAP PROJECTION: LAMBERT CONFORMAL CONIC
COORDINATE SYSTEM: OHIO SOUTH ZONE
COMBINED SCALE FACTOR: 1.00002576
ORIGIN OF COORDINATE SYSTEM: (0,0)

USE THE POSITIONING METHODS AND MONUMENT TYPE USED IN THE ORIGINAL SURVEY TO RESTORE ALL MONUMENTS RELATED TO PRIMARY PROJECT CONTROL THAT ARE DAMAGED OR DESTROYED BY CONSTRUCTION ACTIVITIES. RESTORE THE DAMAGED OR DESTROYED MONUMENTS IN ACCORDANCE WITH CMS 623.

UNITS ARE IN U.S. SURVEY FEET.

ITEM 606 - ANCHOR ASSEMBLY, MGS TYPE E

THIS ITEM SHALL CONSIST OF FURNISHING AND INSTALLING ANY OF THE GUARDRAIL END TERMINALS FOR TYPE MGS GUARDRAIL AS LISTED ON ROADWAY ENGINEERING'S WEB PAGE UNDER ROADSIDE SAFETY DEVICES FOR APPROVED GUARDRAIL END TREATMENTS. INSTALLATION SHALL BE AT THE LOCATIONS SPECIFIED IN THE PLANS, IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS. THE FACE OF THE TYPE E IMPACT HEAD SHALL BE COVERED WITH REBOUNDABLE RETROREFLECTIVE SHEETING, PER CMS 730.191.

REFER TO THE MANUFACTURER'S INSTRUCTIONS REGARDING THE INSTALLATION OF, AND THE GRADING AROUND THE FOUNDATION TUBES AND GROUND STRUT. THE TOP OF ANY FOUNDATION TUBE SHOULD BE LESS THAN 4 INCHES ABOVE THE GROUND. THE PLACEMENT OF THE FOUNDATION TUBES SHOULD BE AN APPROPRIATE DEPTH BELOW THE LEVEL LINE IN ORDER TO MAINTAIN THE FINISHED GUARDRAIL HEIGHT OF 31 INCHES FROM THE EDGE OF THE SHOULDER. ON-SITE GRADING IS REQUIRED IF THE TOP OF THE FOUNDATION TUBES OR TOP OF THE GROUND STRUT DOES PROJECT MORE THAN 4 INCHES ABOVE THE GROUND LINE. PAYMENT FOR THE ABOVE WORK SHALL BE MADE AT THE UNIT PRICE BID FOR ITEM 606, ANCHOR ASSEMBLY, MGS TYPE E, EACH, AND SHALL INCLUDE ALL LABOR, TOOLS, EQUIPMENT AND MATERIALS NECESSARY TO CONSTRUCT A COMPLETE AND FUNCTIONAL ANCHOR ASSEMBLY SYSTEM, INCLUDING ALL RELATED TRANSITIONS, REFLECTIVE SHEETING, HARDWARE, GRADING, EMBANKMENT AND EXCAVATION NOT SEPARATELY SPECIFIED, AS REQUIRED BY THE MANUFACTURER.

ANCHOR ASSEMBLY REMOVED, TYPE A, AS PER PLAN

WHERE DESIGNATED, EXISTING ANCHOR ASSEMBLIES INCLUDING ALL POSTS AND HARDWARE SHALL BE REMOVED. THIS ITEM SHALL ALSO INCLUDE THE REMOVAL OF THE ENTIRE CONCRETE ANCHOR AND CONCRETE ENCASEMENT. ALL HOLES LEFT AFTER REMOVAL OF ASSEMBLIES AND POSTS SHALL BE FILLED WITH GRANULAR MATERIAL AS DIRECTED BY THE ENGINEER. PAYMENT SHALL INCLUDE ALL NECESSARY LABOR AND EQUIPMENT REQUIRED TO PERFORM THE WORK AS INDICATED ABOVE. PAYMENT SHALL BE AT THE UNIT BID PRICE.

ITEM UNIT DESCRIPTION

202 EACH ANCHOR ASSEMBLY REMOVED, TYPE A, AS PER PLAN

PERMANENT PAVEMENT MARKINGS

THE CONTRACTOR SHALL REFERENCE ALL PAVEMENT MARKINGS INCLUDING AUXILIARY PAVEMENT MARKINGS BEFORE THE START OF THE RESURFACING OPERATION. THIS WILL BE NECESSARY ASSURE TO CORRECT PLACEMENT OF MARKINGS IN ORIGINAL LOCATIONS. FOR CENTER LINE MARKINGS, THE CONTRACTOR SHALL INSTALL THE PASSING/NO PASSING ZONE MARKINGS ACCORDING TO THE CURRENT CENTER LINE LOGS WEBSITE:

<http://www.dot.state.oh.us/d08/Pages/NoPassingZone.aspx>

PAYMENT FOR THIS OPERATION SHALL BE INCLUDED WITH EACH RESPECTIVE PAVEMENT MARKING ITEM.

ROUNDING

THE ROUNDING AT SLOPE BREAKPOINTS SHOWN ON THE TYPICAL SECTIONS APPLIES TO ALL CROSS-SECTIONS, EVEN THOUGH OTHERWISE SHOWN.

ITEM 623- CONSTRUCTION LAYOUT STAKES, AS PER PLAN

PRIOR TO THE START OF ROADWAY OPERATION, THE CONTRACTOR SHALL REFERENCE THE LENGTH OF THE PROJECT ON BOTH SIDES OF THE ROADWAY, IN A MANNER SATISFACTORY TO THE ENGINEER. THE PAVEMENT SHALL BE REFERENCED IN 1000' FEET INCREMENTS, OR IN INCREMENTS ACCEPTABLE TO THE ENGINEER, IN A SEMIPERMANENT CONDITION.

ASBESTOS ABATEMENT

AN ASBESTOS SURVEY FOR SFN 8305161 SCHEDULED FOR RENOVATION WORK WAS CONDUCTED ON 5/17/2023 BY A LICENSED ASBESTOS HAZARD EVALUATION SPECIALIST. THE ASBESTOS SURVEY DID NOT IDENTIFY THE PRESENCE OF ANY ASBESTOS CONTAINING MATERIALS.

ELECTRONIC SUBMISSION:

THE CONTRACTOR SHALL SUBMIT ELECTRONICALLY TO OEPA A COMPLETED NOTIFICATION OF DEMOLITION & RENOVATION FORM (NDRF) AND APPLICABLE FEES ALONG WITH THE ASBESTOS SURVEY REPORT. THE COMPLETED NDRF MUST BE SUBMITTED TO OEPA AT LEAST 10 DAYS PRIOR TO ANY DEMOLITION AND RENOVATION ACTIVITY. THE CONTRACTOR IS RESPONSIBLE FOR RETAINING AN ELECTRONIC COPY OF THE NDRF (IN PDF FORM) FOR SUBMISSION TO THE DISTRICT ENVIRONMENTAL STAFF AND ONE HARD COPY TO THE PROJECT ENGINEER.

(GO TO THE OEPA EBUSINESS CENTER AND SUBMIT THE NDRF AND PAYMENT ALONG WITH THE ASBESTOS SURVEY REPORT)

HARD COPY SUBMISSION:

THE CONTRACTOR MAY ELECT TO SUBMIT A HARD COPY OF THE COMPLETED NDRF AND PAYMENT ALONG WITH THE ASBESTOS SURVEY REPORT TO THE FOLLOWING:

ASBESTOS PROGRAM
OHIO EPA, DAPC
P.O. BOX 1049
COLUMBUS, OHIO 43216-1049

OR

ASBESTOS PROGRAM
OHIO EPA, DAPC
50 W TOWN ST, SUITE 700
COLUMBUS, OHIO 43215

IF THE CONTRACTOR ELECTS TO SUBMIT A HARD COPY TO OEPA THEY ARE RESPONSIBLE FOR RETAINING A HARD COPY OF THE NDRF FOR SUBMISSION TO THE DISTRICT ENVIRONMENTAL STAFF AND A HARD COPY TO THE PROJECT ENGINEER.

BAT TREE RESTRICTIONS

THE PROJECT IS LOCATED WITHIN THE KNOWN HABITAT RANGES OF THE FEDERALLY-LISTED NORTHERN LONG-EARED AND INDIANA BATS, AND THE STATE-LISTED LITTLE BROWN AND TRICOLORED BATS. THE CONTRACTOR SHALL NOT REMOVE TREES UNDER THIS PROJECT FROM APRIL 1 THROUGH SEPTEMBER 30. ALL NECESSARY TREE REMOVAL SHALL OCCUR FROM OCTOBER 1 THROUGH MARCH 31. THE CONTRACTOR SHALL DEMARCATÉ CLEARING LIMITS IN THE FIELD TO AVOID ANY UNAUTHORIZED TREE CLEARING. THIS REQUIREMENT IS NECESSARY TO AVOID AND MINIMIZE IMPACTS TO THESE SPECIES AS REQUIRED BY THE ENDANGERED SPECIES ACT. FOR THE PURPOSES OF THIS NOTE, A TREE IS DEFINED AS A LIVE, DYING, OR DEAD WOODY PLANT, WITH A TRUNK THREE INCHES OR GREATER IN DIAMETER AT A HEIGHT OF 4.5 FEET ABOVE THE GROUND SURFACE, AND WITH A MINIMUM HEIGHT OF 13 FEET.

IN WATER WORK RESTRICTIONS

THE CONTRACTOR SHALL NOT WORK BELOW THE ORDINARY HIGH WATER MARK OF TODD FORK, OR INSTALL, MODIFY, OR REMOVE ANY EXISTING INSTREAM FILLS DURING THE ODNR INSTREAM WORK RESTRICTION PERIOD OF APRIL 15 TO JUNE 30.

DESIGN AGENCY



DESIGNER

GTF

REVIEWER

JAO

PROJECT ID

112975


SHEET TOTAL

3 50

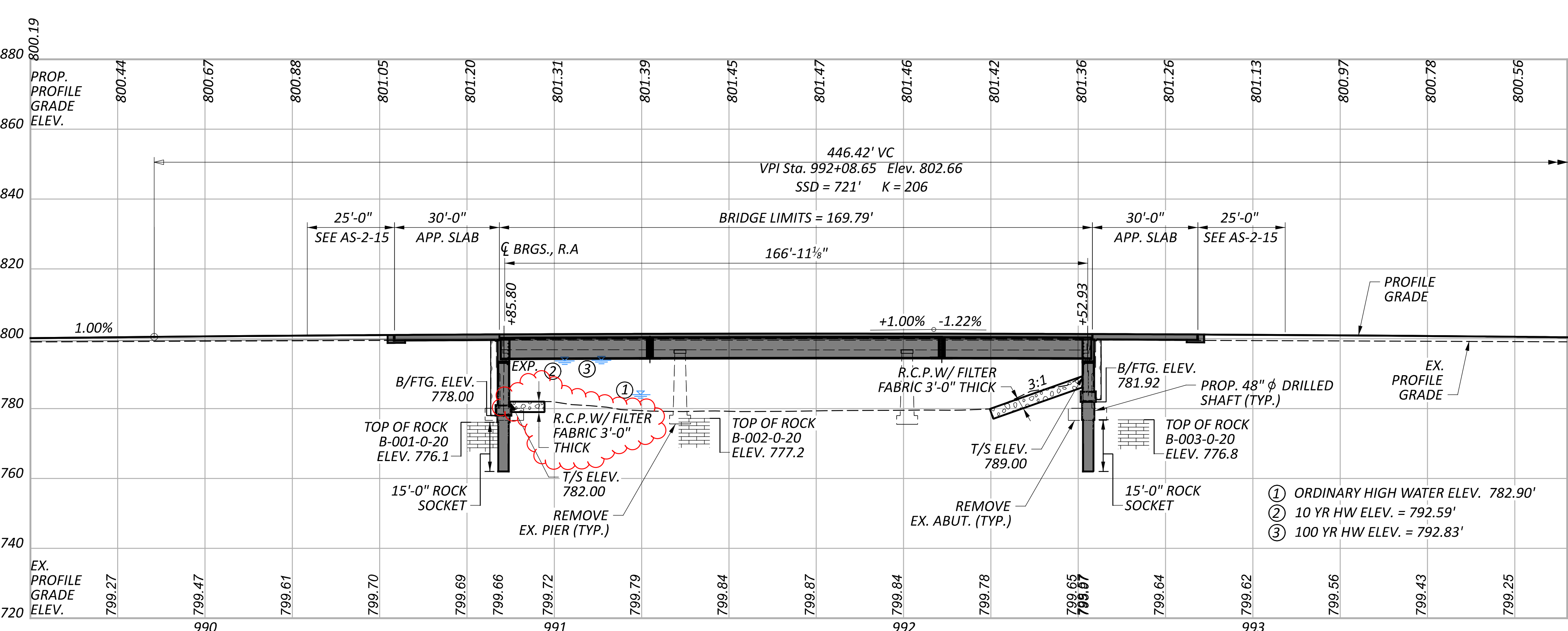
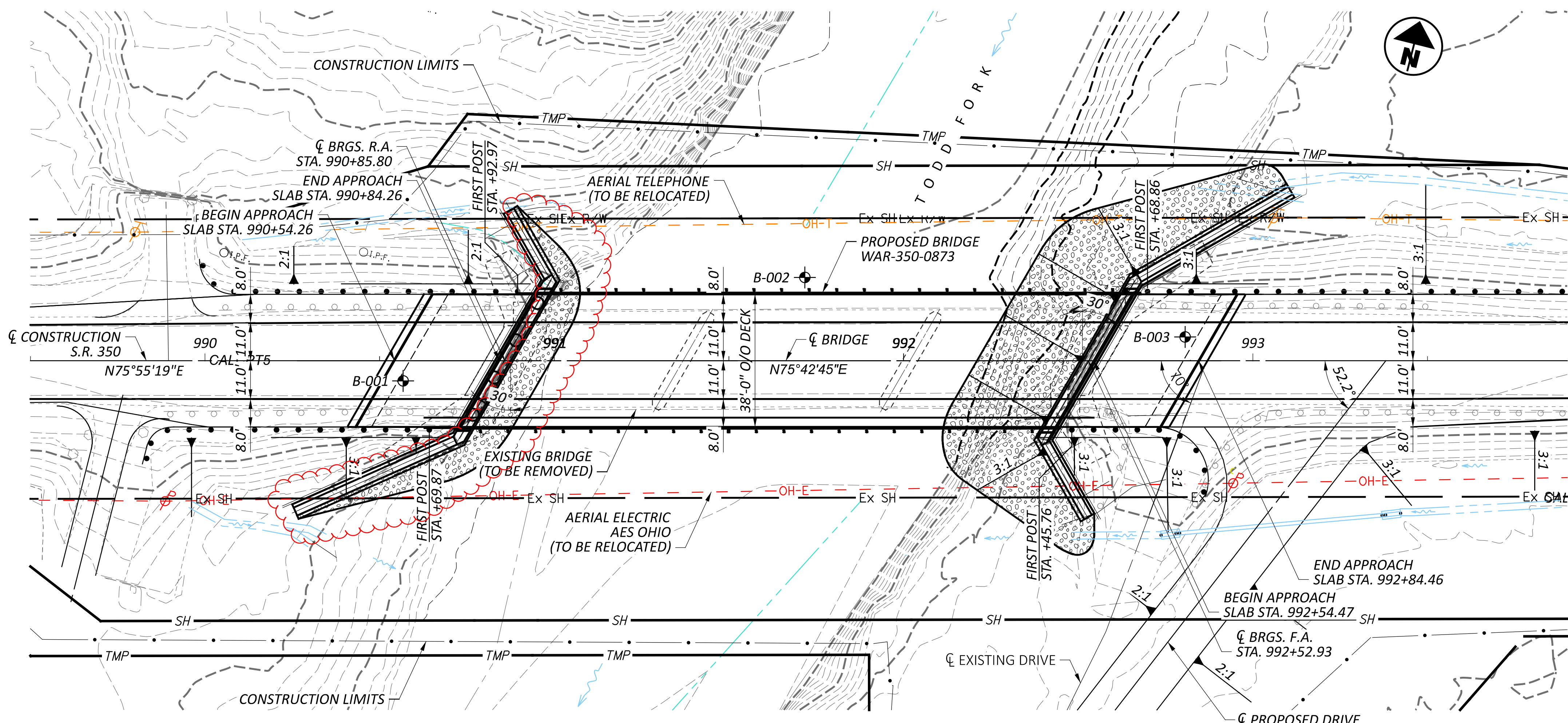
SHEET NUM.											PART.	ITEM	ITEM	GRAND	UNIT	DESCRIPTION	SEE SHEET NO.
3	7	21									01/STR/10	EXT	TOTAL				
											LUMP	201	11000	LS		ROADWAY	
	1,943										1,943	202	23000	1,943	SY	CLEARING AND GRUBBING	
	375										375	202	38000	375	FT	PAVEMENT REMOVED	
	4										4	202	42001	4	EACH	GUARDRAIL REMOVED	
	2										2	202	42040	2	EACH	ANCHOR ASSEMBLY REMOVED, TYPE A, AS PER PLAN	3
	1										1	202	53100	1	EACH	ANCHOR ASSEMBLY REMOVED, TYPE T	
		280									280	203	10000	280	CY	MAILBOX REMOVED	
		3,416									3,416	203	20001	3,416	CY	EXCAVATION	
	748										748	203	35120	748	CY	EMBANKMENT, AS PER PLAN	3
	2,143										2,143	204	10000	2,143	SY	GRANULAR MATERIAL, TYPE C	
	2,621										2,621	204	13000	2,621	CY	SUBGRADE COMPACTION	
											375	606	15050	375	FT	EXCAVATION OF SUBGRADE	
	2										2	606	26100	2	EACH	GUARDRAIL, TYPE MGS	
	4										4	606	26500	4	EACH	ANCHOR ASSEMBLY, TYPE E	
	4										4	606	34600	4	EACH	ANCHOR ASSEMBLY, TYPE T	
	1										1	SPECIAL	69050000	1	EACH	MGS BRIDGE TERMINAL ASSEMBLY, TYPE TST-2	
											LUMP	SPECIAL	69071000	LS		MAILBOX SUPPORT	3
											LUMP	878	25000	LS		ASBESTOS ABATEMENT	3
																INSPECTION AND COMPACTION TESTING OF UNBOUND MATERIALS	
																EROSION CONTROL	
	529										529	601	32004	529	CY	ROCK CHANNEL PROTECTION, TYPE A WITH GEOTEXTILE FABRIC	
	511										511	659	00300	511	CY	TOPSOIL	
	4,605										4,605	659	10000	4,605	SY	SEEDING AND MULCHING	
	230										230	659	14000	230	SY	REPAIR SEEDING AND MULCHING	
	0.62										0.62	659	20000	0.62	TON	COMMERCIAL FERTILIZER	
	0.95										0.95	659	31000	0.95	ACRE	LIME	
	24.9										24.9	659	35000	24.9	MGAL	WATER	
											1,157	670	00500	1,157	SY	SLOPE EROSION PROTECTION	
											40,000	832	30000	40,000	EACH	EROSION CONTROL	
											LUMP	832	15000	LS		STORM WATER POLLUTION PREVENTION PLAN	
											LUMP	832	15002	LS		STORM WATER POLLUTION PREVENTION INSPECTIONS	
											LUMP	832	15010	LS		STORM WATER POLLUTION PREVENTION INSPECTION SOFTWARE	
																DRAINAGE	
	2										2	602	20000	2	CY	CONCRETE MASONRY	
	72										72	611	04900	72	FT	12" CONDUIT, TYPE D	
																PAVEMENT	
	813										813	254	01000	813	SY	PAVEMENT PLANING, ASPHALT CONCRETE (T = 1.5")	
	487										487	301	56010	487	CY	ASPHALT CONCRETE BASE, PG64-28, (449)	
	339										339	304	20000	339	CY	AGGREGATE BASE	
	575										575	407	20000	575	GAL	NON-TRACKING TACK COAT	
	109										109	441	50000	109	CY	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448), PG64-22	
	139										139	441	50300	139	CY	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (448)	
																TRAFFIC CONTROL	
											13	621	54000	13	EACH	RAISED PAVEMENT MARKER REMOVED	
											13	621	00100	13	EACH	RPM	
											0.36	644	00104	0.36	MILE	EDGE LINE, 6"	
											0.18	644	00300	0.18	MILE	CENTER LINE	
											0.08	646	10010	0.08	MILE	EDGE LINE, 6"	
											0.04	646	10200	0.04	MILE	CENTER LINE	
																STRUCTURE OVER 20 FOOT SPAN (WAR-350-0873)	
																SEE SHEET 24	
																MAINTENANCE OF TRAFFIC	
											LUMP	614	12420	LS		DETOUR SIGNING	
																INCIDENTALS	
											LUMP	614	11000	LS		MAINTAINING TRAFFIC	
											LUMP	623	10000	LS		CONSTRUCTION LAYOUT STAKES AND SURVEYING	
											LUMP	624	10000	LS		MOBILIZATION	

GENERAL SUMMARY

DESIGN AGENCY



DESIGNER: GTF
 REVIEWER: JAO
 PROJECT ID: 112975
 SHEET TOTAL: 6 | 50



BENCHMARK DATA

BM #1 STA.	988+96.33,	ELEV.	797.39,	OFFSET	18.43 RT.,	IPIN
BM #2 STA.	994+33.07,	ELEV.	797.50,	OFFSET	15.68 LT.,	IPIN

NOTES
 EARTHWORK LIMITS SHOWN ARE APPROXIMATE. ACTUAL SLOPES SHALL CONFORM TO PLAN CROSS SECTIONS.

DESIGN TRAFFIC:
 2024 ADT = 1,600 2024 ADTT = 16
 2044 ADT = 2,300 2044 ADTT = 23
 DIRECTIONAL DISTRIBUTION = 0.60

LEGEND
 PROJECT BORING LOCATION
 ROCK CHANNEL PROTECTION, TYPE A WITH FILTER FABRIC

HYDRAULIC DATA
 DRAINAGE AREA = 147 SQ. MILES
 Q (10% AEP) = 16,050 CFS V (10% AEP) = 8.6 FT/S
 Q (1% AEP) = 23,930 CFS V (1% AEP) = 11.6 FT/S
 OHWM ELEV. = 782.90'
 STRUCTURE CLEARS THE 10 YEAR DESIGN HW BY 0.91 FEET.

EXISTING STRUCTURE

TYPE: PRESTRESSED CONCRETE NON-COMPOSITE BOX BEAMS WITH REINFORCED CONCRETE ABUTMENTS.

SPANS: 50.20±, 63.27±, 50.20±
 ROADWAY: 28'-0"± FACE/FACE RAIL
 LOADING: HS20-44
 SKEW: 30°± L.F.
 WEARING SURFACE: 3"± ASPHALT WEARING SURFACE
 APPROACH SLABS: NON-STANDARD (3' LONG)
 ALIGNMENT: TANGENT
 CROWN: NORMAL
 STRUCTURE FILE NUMBER: 8305161
 DATE BUILT: ORIGINAL CONCRETE ABUTMENTS: 1931
 SUPERSTRUCTURE REPLACEMENT: 1976
 DISPOSITION: TO BE REMOVED

PROPOSED STRUCTURE

TYPE: STEEL GIRDER SUPERSTRUCTURE WITH SEMI-INTEGRAL REINFORCED CONCRETE ABUTMENTS ON DRILLED SHAFTS

SPAN: 167'-1½" (C/C BRGS.)
 ROADWAY: 38'-0" FACE/FACE RAIL
 LOADING: HL93 + 0.06 KSF FUTURE WEARING SURFACE
 SKEW: 30°00'00"
 WEARING SURFACE: 1" MONOLITHIC CONCRETE
 APPROACH SLABS: AS-1-15 (30'-0" LONG)
 ALIGNMENT: TANGENT
 CROWN: 0.016 FT/FT
 DECK AREA: 6,452 SF
 COORDINATES: LATITUDE 39°23'59.80" N
 LONGITUDE 84°00'05.70" W

SITE PLAN
 BRIDGE No.: WAR-350-0873
 STATE ROUTE 350 OVER TODD'S FORK

SFN	8306272
DESIGN AGENCY	
DESIGNER	GTF
CHECKER	CAH
REVIEWER	RSK
PROJECT ID	112975
SUBSET	1
TOTAL	20
SHEET	22
TOTAL	50

STANDARD DRAWINGS AND SUPPLEMENTAL SPECIFICATIONS

REFER TO THE FOLLOWING STANDARD BRIDGE DRAWINGS:

AS-1-15	REVISED 1-20-23
AS-2-15	REVISED 7-21-23
DS-1-92	REVISED 7-15-22
GSD-1-19	REVISED 1-15-21
SICD-2-14	REVISED 1-19-24
TST-2-21	DATED 7-16-21

AND TO THE FOLLOWING SUPPLEMENTAL SPECIFICATIONS

800	DATED 4-21-23
846	DATED 4-17-15

DESIGN SPECIFICATIONS

THIS STRUCTURE CONFORMS TO THE 9th EDITION OF THE "LRFD BRIDGE DESIGN SPECIFICATIONS" ADOPTED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS AND THE ODOT BRIDGE DESIGN MANUAL, 2020.

OPERATIONAL IMPORTANCE

A LOAD MODIFIER OF 1.0 HAS BEEN ASSUMED FOR THE DESIGN OF THIS STRUCTURE IN ACCORDANCE WITH THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, ARTICLE 1.3.5 AND THE ODOT BRIDGE DESIGN MANUAL.

DESIGN LOADING

DESIGN LOADING INCLUDES:
 VEHICULAR LIVE LOAD: HL-93
 FUTURE WEARING SURFACE (FWS) OF 0.060 KIPS/FT²

DESIGN DATA

CONCRETE CLASS QC1 WITH QC/QA- COMPRESSIVE STRENGTH 4.0 KSI (ABUTMENT)

CONCRETE CLASS QC2 WITH QC/QA - COMPRESSIVE STRENGTH 4.5 KSI (DECK SLAB, APPROACH SLAB)

CONCRETE CLASS QCS WITH 3/8" MAX. AGGREGATE SIZE - COMPRESSIVE STRENGTH 4.5 KSI (DRILLED SHAFTS)

GALVANIZED STEEL REINFORCEMENT – MINIMUM YIELD STRENGTH 60-KSI (DECK SLAB, ABUTMENTS, APPROACH SLABS, & DRILLED SHAFTS)

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

DECK PROTECTION METHOD

GALVANIZED STEEL REINFORCEMENT
 2 1/2" CONCRETE COVER
 STEEL DRIP STRIP
 SEALING OF CONCRETE SURFACES

MONOLITHIC WEARING SURFACE

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

BRIDGE SCOUR

THE DESIGN FLOOD AND CHECK FLOOD SCOUR ELEVATIONS ARE PROVIDED BELOW:

	REAR ABUTMENT	FORWARD ABUTMENT
DESIGN FLOOD	775.13	775.83
CHECK FLOOD	775.82	776.52

ITEM 202 - PORTIONS OF STRUCTURE REMOVED, OVER 20 FOOT SPAN, AS PER PLAN

REMOVE ABUTMENTS IN THEIR ENTIRETY TO ELEV. OF APPROXIMATELY 776.50.

REMOVE PIERS TO ELEV. 777.70. BACKFILL THE CAVITY CREATED BY REMOVAL OF PIERS IN THE STREAM BED WITH DUMP ROCK FILL, TYPE A.

ROCK-SOCKETED SHAFTS

THE MAXIMUM FACTORED LOAD TO BE SUPPORTED BY EACH DRILLED SHAFT IS 497 KIPS AT THE ABUTMENTS THIS LOAD IS RESISTED BY TIP RESISTANCE.

LATERALLY LOADED DRILLED SHAFTS

THE MAXIMUM FACTORED INTERNAL LOAD AND BENDING MOMENT TO BE SUPPORTED BY EACH DRILLED SHAFT ARE 72 KIPS, AND 395 KIP-FEET, RESPECTIVELY. THESE LOADS PRODUCE A MAXIMUM FACTORED BENDING MOMENT OF 796 KIP-FEET, AND A MAXIMUM FACTORED SHEAR OF 210 KIPS, WITHIN THE DRILLED SHAFT.

ITEM 894 - THERMAL INTEGRITY PROFILER (T.I.P.) TEST

PERFORM INTEGRITY TESTING ON TWO OF THE DRILLED SHAFTS AT THE REAR ABUTMENT AND THE FORWARD ABUTMENT BY THERMAL INTEGRITY PROFILING (TIP). PERFORM TIP TESTING PER ASTM D7949, "STANDARD TEST METHODS FOR THERMAL INTEGRITY PROFILING OF CONCRETE DEEP FOUNDATIONS," METHOD B, AND PER THE PROJECT SPECIAL PROVISIONS.

ITEM 503 - COFFERDAMS AND EXCAVATION BRACING, AS PER PLAN

THE DESIGN SHOWN ON THE PLANS FOR TEMPORARY SUPPORT OF EXCAVATION IS ONE REPRESENTATIVE DESIGN THAT MAY BE USED TO CONSTRUCT THE PROJECT. THE CONTRACTOR MAY CONSTRUCT THE DESIGN SHOWN ON THE PLANS OR PREPARE AN ALTERNATE DESIGN TO SUPPORT THE SIDES OF EXCAVATION. IF CONSTRUCTING AN ALTERNATE DESIGN FOR TEMPORARY SUPPORT OF EXCAVATION, PREPARE AND PROVIDE PLANS IN ACCORDANCE WITH C&MS 501.05. THE DEPARTMENT WILL PAY FOR THE TEMPORARY SUPPORT OF EXCAVATION AT THE CONTRACT LUMP SUM PRICE FOR COFFERDAMS AND EXCAVATION BRACING. THE DEPARTMENT WILL NOT MAKE ADDITIONAL PAYMENT FOR PROVIDING AN ALTERNATE DESIGN.

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 2.37 KIPS.

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

A MAXIMUM SPACING OF OVERHANG FALSEWORK BRACKETS OF 48 INCHES.

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

ITEM 514 FIELD PAINTING, MISC.: COATING OF BEAM ENDS

PRIOR TO ENCASING THE BEAM ENDS, PREPARE THE ENDS PER SSPC SP10 OR SSPC SP11 TO BARE METAL ACHIEVING A 1.5 TO 3.5 MIL PROFILE. PAINT THE BEAM ENDS WITH ORGANIC ZINC PRIME COAT PER C&MS 514. PROVIDE THE PRIME COAT THICKNESS AS PER C&MS 514.20. EXTEND THE LIMITS OF THE BEAM PREPARATION AND PAINTING 1-FT BEYOND THE LIMITS OF THE END DIAPHRAGM CONCRETE.

AFTER THE DIAPHRAGM CONCRETE IS SET, SEAL THE INTERFACE BETWEEN THE BEAM AND CONCRETE WITH CAULK.

THE DEPARTMENT WILL PAY FOR ALL ABOVE LABOR AND AT THE CONTRACT BID PRICE FOR ITEM 514 FIELD PAINTING, MISC: COATING OF BEAM ENDS.

ITEM 512 - SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)

ABUTMENTS AND DECK OVERHANGS: SEAL SURFACES AS NOTED IN THE BRIDGE PLANS, WITH EPOXY-URETHANE, USING FEDERAL STANDARD COLOR NUMBER 17778 (LIGHT NEUTRAL)

ITEM 514 - FIELD PAINTING STRUCTURAL STEEL

THE COLOR OF THE FINISH COAT FOR ALL STRUCTURAL STEEL SHALL BE FEDERAL COLOR NO. FS-595C-14277 (LIGHT GREEN)

ABBREVIATIONS:

THE FOLLOWING ABBREVIATIONS HAVE BEEN USED THROUGHOUT THESE PLANS TO INDICATE THE DESIGNATIONS CONTAINED IN THE LEGEND BELOW:

ABUT. - ABUTMENT	O/O - OUT TO OUT
APPR. - APPROACH	P.C.P.P - PERFORATED CORRUGATED PLASTIC PIPE
BTM. - BOTTOM	P.E.J.F. - PREFORMED EXPANSION JOINT FILLER
BRG. - BEARING	PG - PROFILE GRADE
BRGS. - BEARINGS	PGL - PROFILE GRADE LINE
CL - CENTERLINE	PROP. - PROPOSED
C/C - CENTER TO CENTER	PT - POINT OF TANGENCY
CIP - CAST-IN-PLACE	PVC - POINT OF VERTICAL CURVATURE
C.J. - CONSTRUCTION JOINT	PVI - POINT OF VERTICAL INTERSECTION
CLR. - CLEARANCE	PVT - POINT OF VERTICAL TANGENCY
CMS - CONSTRUCTION AND MATERIAL SPECIFICATIONS	R. - RADIUS
CONC. - CONCRETE	R.A. - REAR ABUTMENT
CONSTR. - CONSTRUCTION	RF - RIGHT FORWARD
CONTR. - CONTRACTION	RT. - RIGHT
CU YD - CUBIC YARD	R/W - RIGHT OF WAY
DIA. - DIAMETER	SAN. - SANITARY
E.F. - EACH FACE	SER. - SERIES
ELEV., EL. - ELEVATION	SHT. - SHEET
EQ. - EQUAL	S.O. - SERIES OF
EX. - EXISTING	SPA. - SPACES OR SPACING
EXP. - EXPANSION	SR - STATE ROUTE
F.A. - FORWARD ABUTMENT	STA. - STATION
F.F. - FAR FACE	STD. - STANDARD
F.S. - FIELD SPLICE	STM. - STORM
FT/FT - FOOT PER FOOT	STR. - STRAIGHT
FTG. - FOOTING	TBM - TEMPORARY BENCH MARK
FWD. - FORWARD	TEMP. - TEMPORARY
GALV. = GALVANIZED	T.O.S. - TOE OF SLOPE
GEN. - GENERAL	T/PARAPET - TOE OF PARAPET
LF - LEFT FORWARD	T/T - TOE TO TOE
LT. - LEFT	TYP. - TYPICAL
MAX. - MAXIMUM	U.G. - UNDERGROUND
MIN. - MINIMUM	VAR. - VARIES
MISC. - MISCELLANEOUS	VC - VERTICAL CURVE
MOT - MAINTENANCE OF TRAFFIC	VERT. - VERTICAL
N.F. - NEAR FACE	W/O - WITHOUT
N.P.C.P.P. - NON-PERFORATED CORRUGATED PLASTIC PIPE	
NO./# - NUMBER	

DESIGN AGENCY



DESIGNER
GTF

REVIEWER
CAH

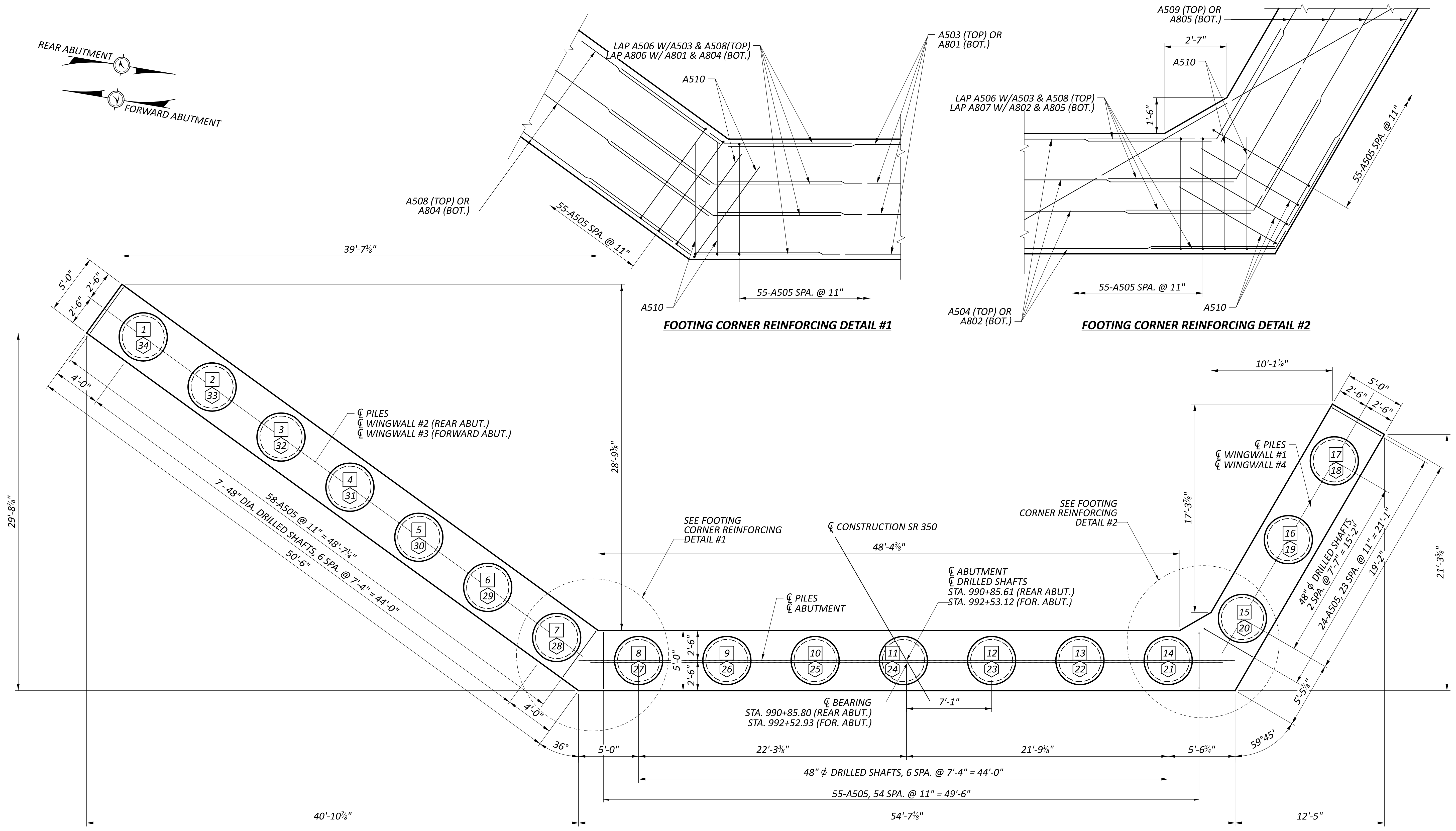
PROJECT ID
112975

SHEET TOTAL
23 | 50

ESTIMATED QUANTITIES - STRUCTURE No.: WAR-350-0873 (01/STR/10 FUNDING SPLIT)								
ITEM	EXTENSION	TOTAL	UNIT	DESCRIPTION	ABUT.	SUPER.	GEN.	SEE SHEET
202	11003	LUMP	LS	STRUCTURE REMOVED, OVER 20 FOOT SPAN, AS PER PLAN			LUMP	
202	22900	127	SY	APPROACH SLAB REMOVED			127	
202	23500	974	SY	WEARING COURSE REMOVED		974		
503	11100	LUMP	LS	COFFERDAMS AND EXCAVATION BRACING			LUMP	
503	21302	LUMP	LS	UNCLASSIFIED EXCAVATION, INCLUDING SHALE			LUMP	
509	26000	104,799	LB	GALVANIZED STEEL REINFORCEMENT	48360	56439		
511	34446	227	CY	CLASS QC2 CONCRETE WITH QC/QA, BRIDGE DECK		227		
511	33500	4	EACH	SEMI-INTEGRAL DIAPHRAGM GUIDE	4			
511	43512	536	CY	CLASS QC1 CONCRETE WITH QC/QA, ABUTMENT INCLUDING FOOTING	536			
512	10100	274	SY	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)	198	76		
512	33000	55	SY	TYPE 2 WATERPROOFING	55			
513	10280	315,090	LB	STRUCTURAL STEEL MEMBERS, LEVEL 4		315090		
513	20000	2700	EACH	WELDED STUD SHEAR CONNECTORS		2700		
514	00060	14,217	SF	FIELD PAINTING STRUCTURAL STEEL, INTERMEDIATE COAT		14217		
514	00066	14,217	SF	FIELD PAINTING STRUCTURAL STEEL, FINISH COAT		14217		
514	10000	8	EACH	FINAL INSPECTION REPAIR		8		
516	13600	4	SF	1" PREFORMED EXPANSION JOINT FILLER	4			
516	13900	121	SF	2" PREFORMED EXPANSION JOINT FILLER	121			
516	14020	96	FT	SEMI-INTEGRAL ABUTMENT EXPANSION JOINT SEAL	96			
516	44300	8	EACH	ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE) (22"x23"x4.428")			8	
517	70100	345.72	FT	RAILING (THREE STEEL TUBE BRIDGE RAILING)		345.72		
518	21200	341	CY	POROUS BACKFILL WITH GEOTEXTILE FABRIC	341			
SPECIAL	51822300	340	FT	STEEL DRIP STRIP		340		
518	40000	240	FT	6" PERFORATED CORRUGATED PLASTIC PIPE			240	
518	40010	50	FT	6" NON-PERFORATED CORRUGATED PLASTIC PIPE, INCLUDING SPECIALS			50	
524	94804	510	FT	DRILLED SHAFTS, 42" DIAMETER, INTO BEDROCK	510			
524	94902	119	FT	DRILLED SHAFTS, 48" DIAMETER, ABOVE BEDROCK	119			
526	30010	127	SY	REINFORCED CONCRETE APPROACH SLABS WITH QC/QA (T=17")			127	
526	90030	86.5	FT	TYPE C INSTALLATION			86.5	
625	33000	2	EACH	STRUCTURE GROUNDING SYSTEM			2	
894	10000	6	EACH	THERMAL INTEGRITY PROFILING (TIP) TEST	6			

STRUCTURE ESTIMATED QUANTITIES
 BRIDGE No.: WAR-350-0873
 STATE ROUTE 350 OVER TODD'S FORK

SFN	
8306272	
DESIGN AGENCY	
DESIGNER	CHECKER
GTF	CAH
REVIEWER	
SRK	
PROJECT ID	
112975	
SUBSET	TOTAL
3	20
SHEET	TOTAL
24	50



FOOTING CORNER REINFORCING DETAIL #1

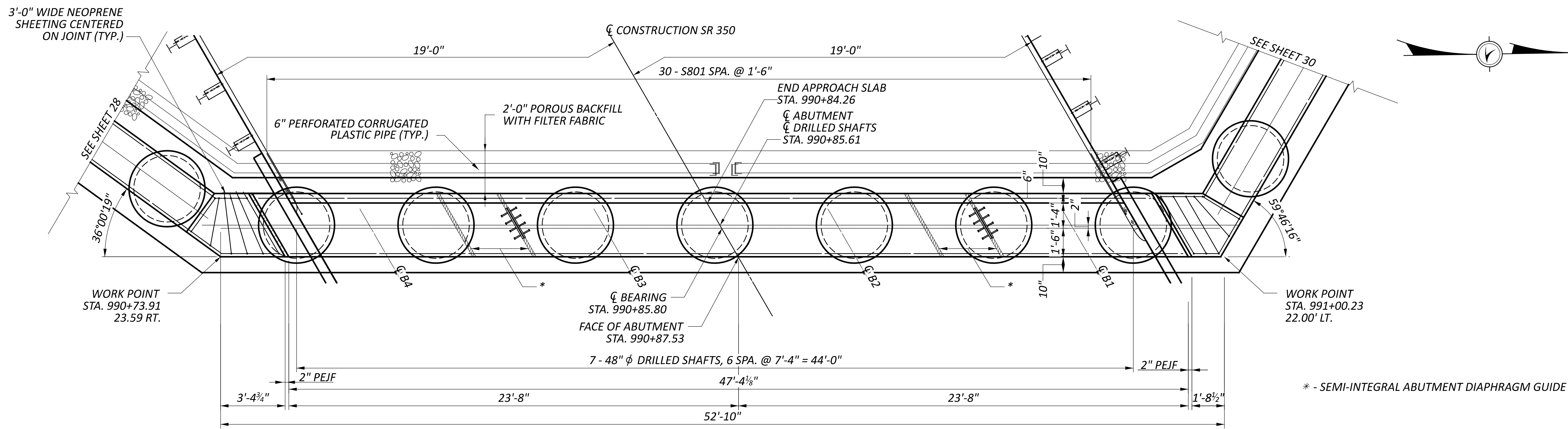
FOOTING CORNER REINFORCING DETAIL #2

FOOTING PLAN

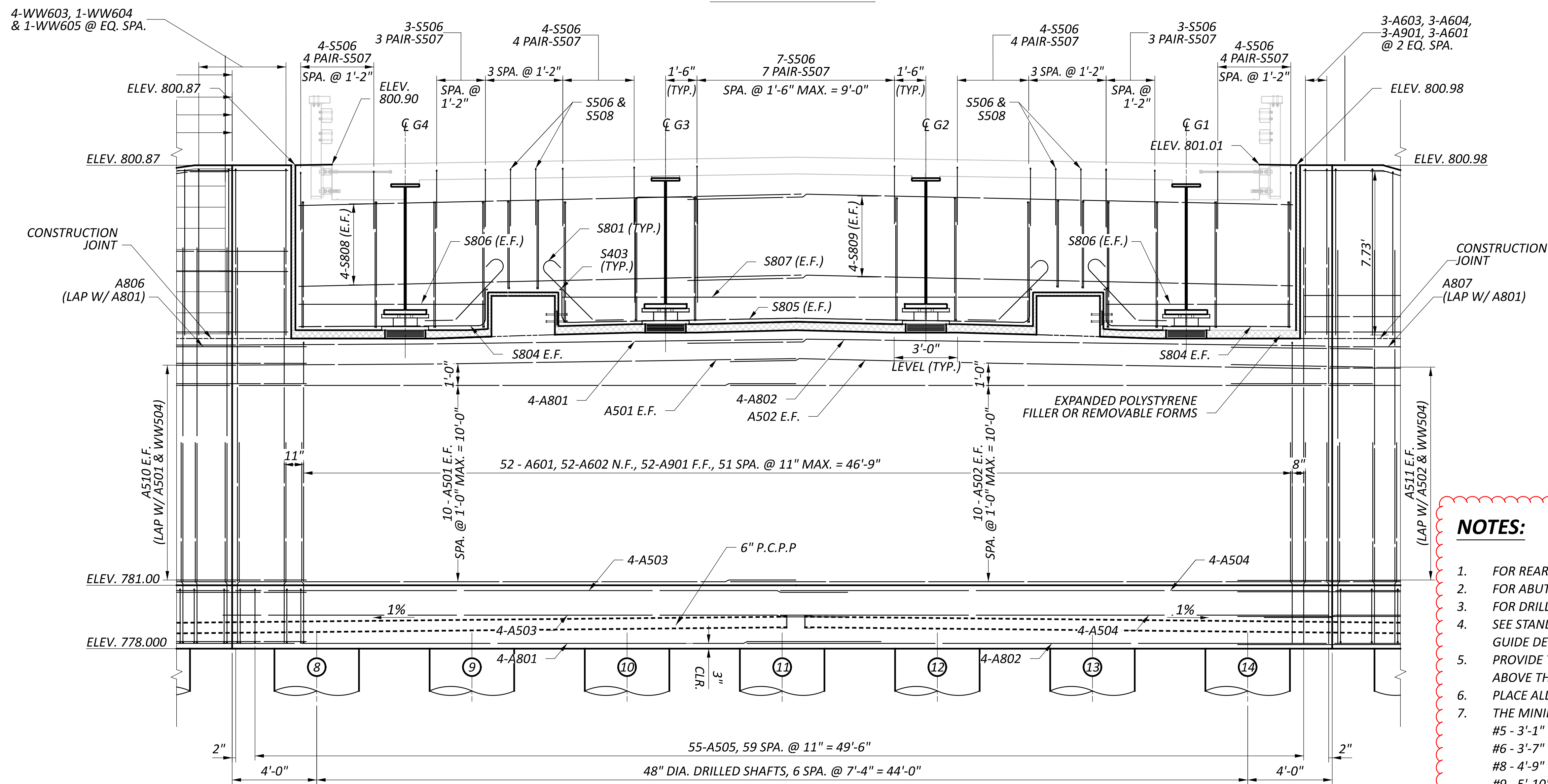
- NOTES:**
- FOR ABUTMENT SECTION AND DETAILS, SEE SHEET 32.
 - FOR REAR ABUTMENT WINGWALL DETAILS, SEE SHEET 31.
 - FOR DRILLED SHAFT REINFORCING SEE SHEETS 31 & 32.
 - THE MINIMUM LAP LENGTHS ARE AS FOLLOWS:
 #5 - 3'-1" (HORIZONTAL)
 #8 - 4'-9" (HORIZONTAL)
- LEGEND:**
- # - SHAFT NUMBER (REAR ABUTMENT)
 - # - SHAFT NUMBER (FORWARD ABUTMENT)

FOOTING PLAN
 BRIDGE No.: WAR-350-0873
 STATE ROUTE 350 OVER TODD'S FORK

SFN	
8306272	
DESIGN AGENCY	
DESIGNER	CHECKER
GTF	CAH
REVIEWER	
SRK	
PROJECT ID	
112975	
SUBSET	TOTAL
4	20
SHEET	TOTAL
25	50



REAR ABUTMENT PLAN

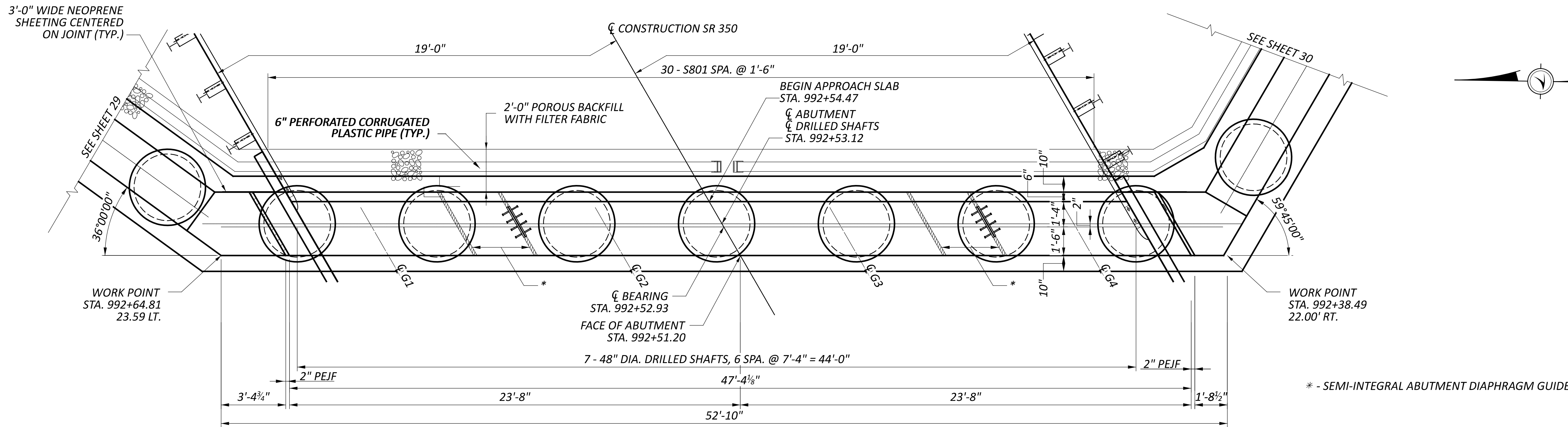


REAR ABUTMENT ELEVATION

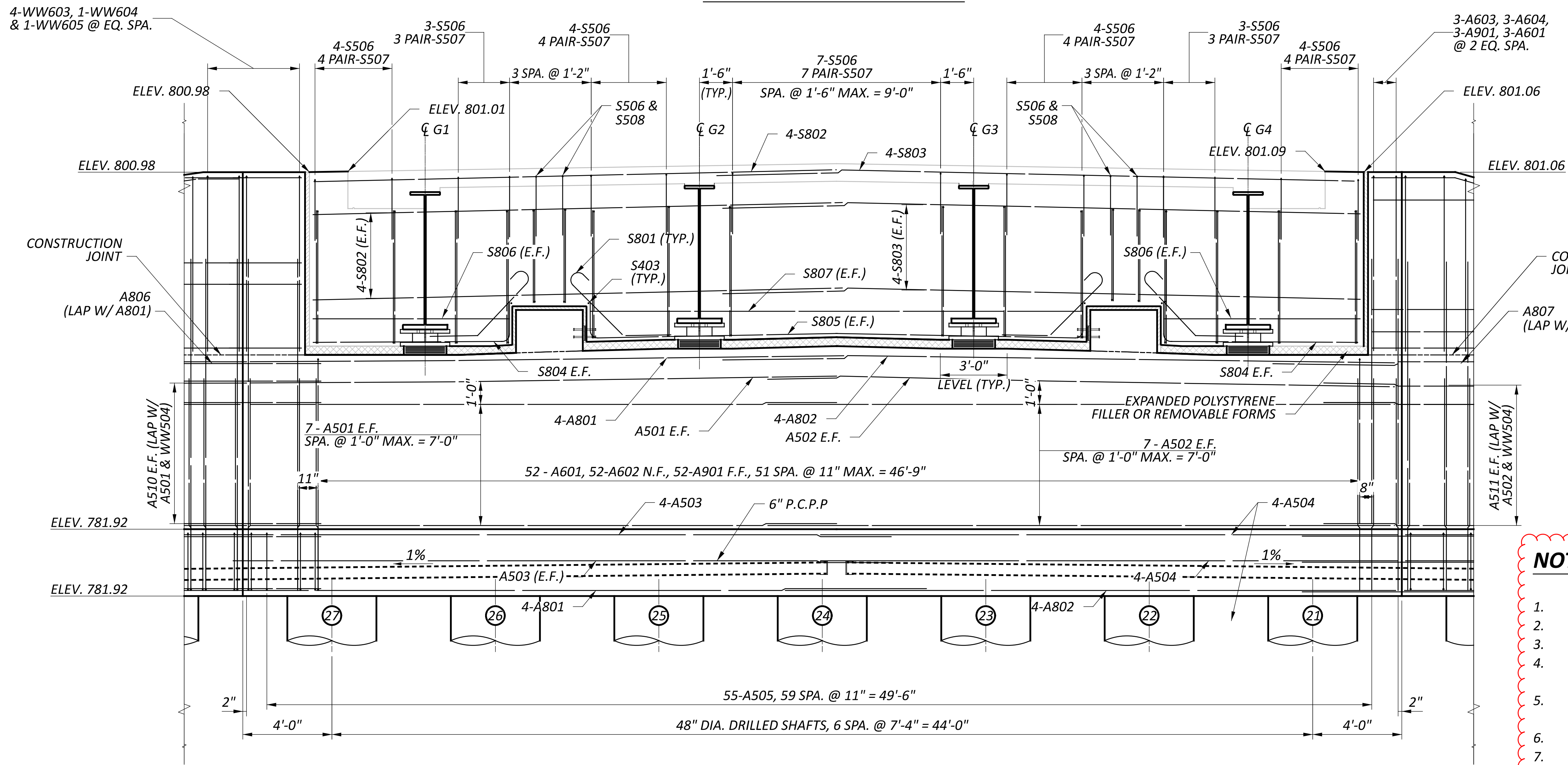
- NOTES:**
- FOR REAR ABUTMENT SECTION AND DETAILS, SEE SHEET 32.
 - FOR ABUTMENT FOUNDATION PLAN SEE SHEET 25.
 - FOR DRILLED SHAFT REINFORCING SEE SHEETS 31 & 32.
 - SEE STANDARD SICD-2-14 FOR ADDITIONAL DIAPHRAGM GUIDE DETAILS.
 - PROVIDE TYPE 2 WATERPROOFING AT ALL CONSTRUCTION JOINTS ABOVE THE FOOTING ADJACENT TO BACKFILL.
 - PLACE ALL DIAPHRAGM REINFORCING STEEL PARALLEL WITH BEAMS.
 - THE MINIMUM LAP LENGTHS ARE AS FOLLOWS:
 #5 - 3'-1" (HORIZONTAL)
 #6 - 3'-7" (VERTICAL)
 #8 - 4'-9" (HORIZONTAL)
 #9 - 5'-10" (VERTICAL)

REAR ABUTMENT DETAILS
 BRIDGE No.: WAR-350-0873
 STATE ROUTE 350 OVER TODD'S FORK

SFN		8306272
DESIGN AGENCY		
DESIGNER	CHECKER	
GTF	SRK	
REVIEWER		
PROJECT ID		112975
SUBSET	TOTAL	
5	20	
SHEET	TOTAL	
26	50	



FORWARD ABUTMENT PLAN



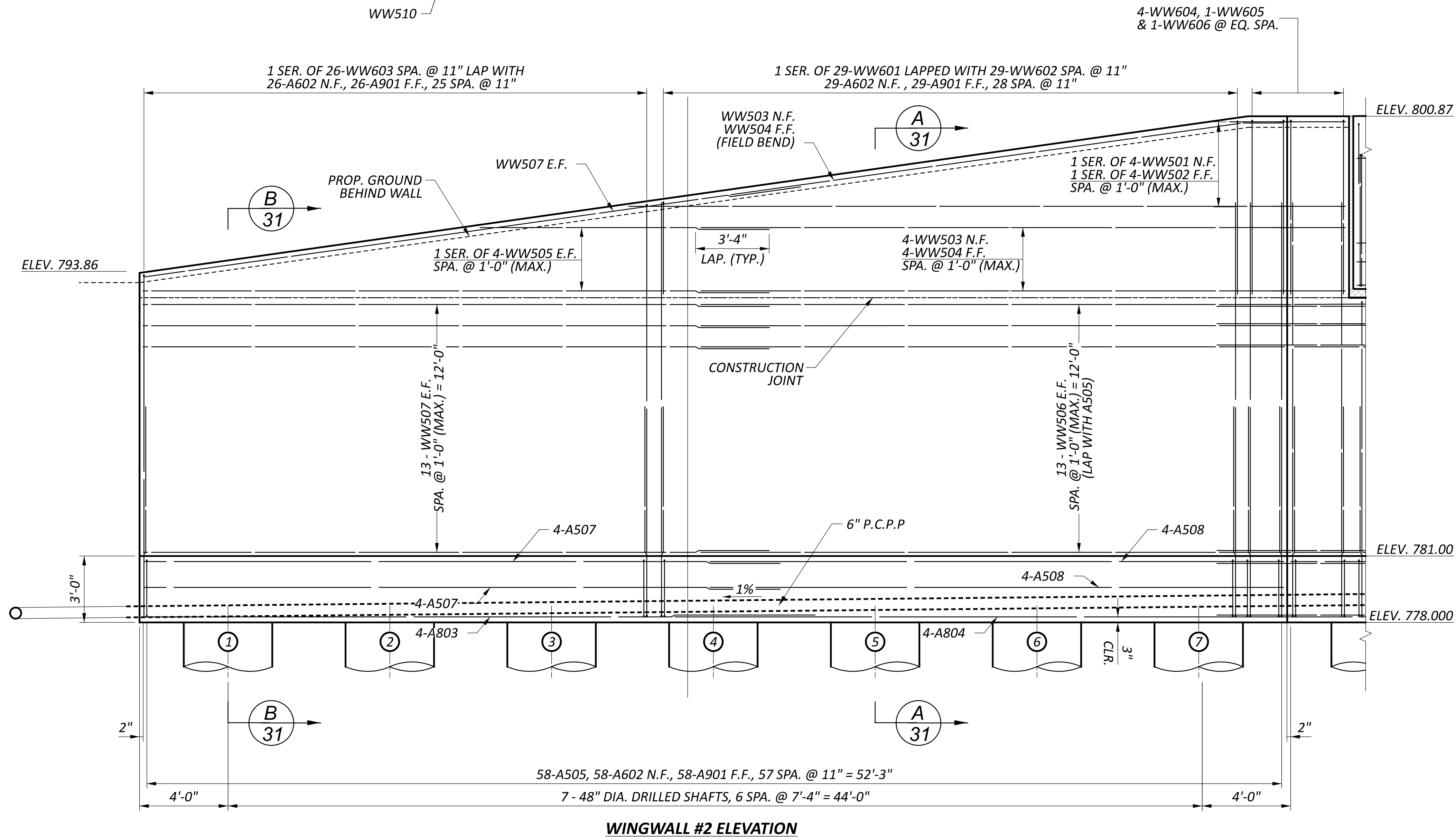
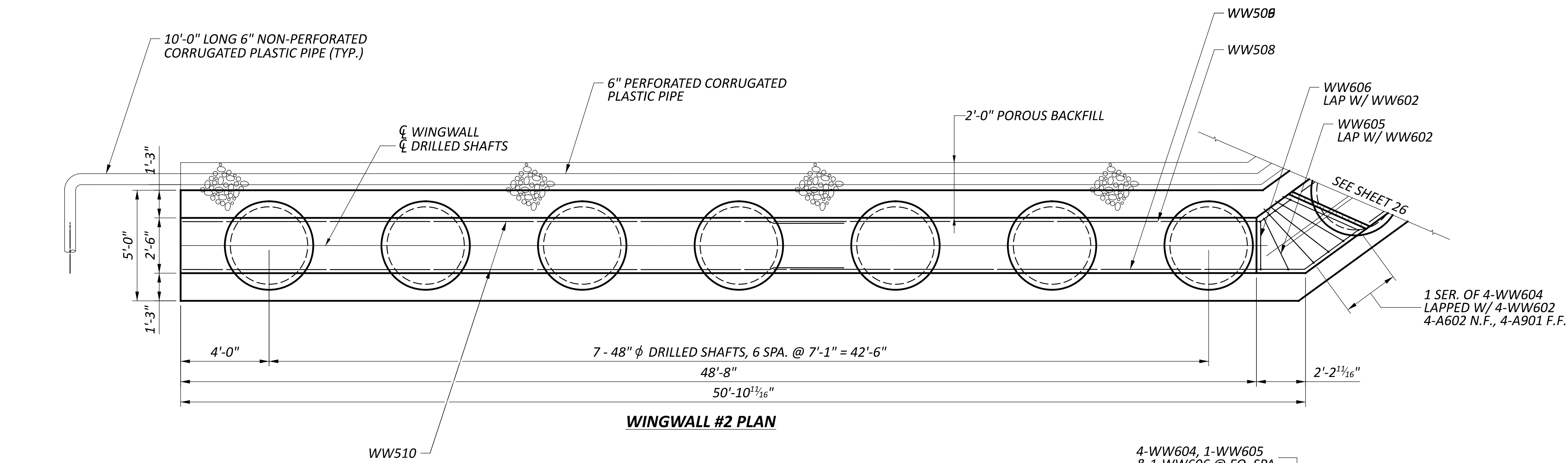
FORWARD ABUTMENT ELEVATION

NOTES:

- FOR FORWARD ABUTMENT SECTION AND DETAILS, SEE SHEET 32.
- FOR ABUTMENT FOUNDATION PLAN SEE SHEET 25.
- FOR DRILLED SHAFT REINFORCING SEE SHEETS 31 & 32.
- SEE STANDARD SICD-2-14 FOR ADDITIONAL DIAPHRAGM GUIDE DETAILS.
- PROVIDE TYPE 2 WATERPROOFING AT ALL CONSTRUCTION JOINTS ABOVE THE FOOTING ADJACENT TO BACKFILL.
- PLACE ALL DIAPHRAGM REINFORCING STEEL PARALLEL WITH BEAMS.
- THE MINIMUM LAP LENGTHS ARE AS FOLLOWS:
 #5 - 3'-1" (HORIZONTAL)
 #6 - 3'-7" (VERTICAL)
 #8 - 4'-9" (HORIZONTAL)
 #9 - 5'-10" (VERTICAL)

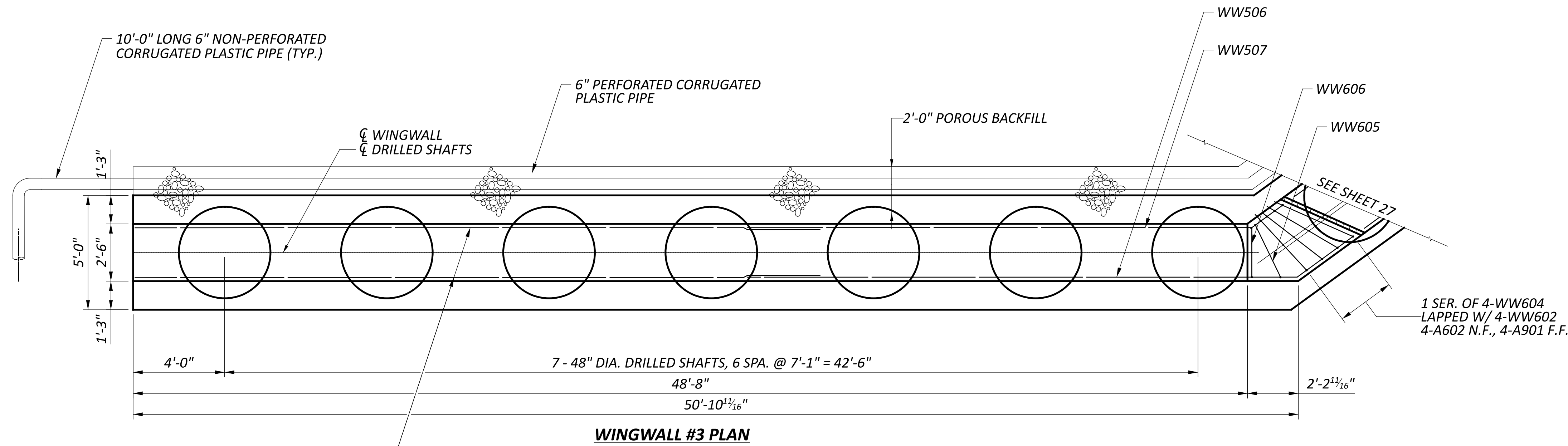
FORWARD ABUTMENT DETAILS
BRIDGE No.: WAR-350-0873
STATE ROUTE 350 OVER TODD'S FORK

SFN	8306272
DESIGN AGENCY	
DESIGNER	GTF
CHECKER	SRK
REVIEWER	CAH
PROJECT ID	112975
SUBSET	6
TOTAL	20
SHEET	27
TOTAL	50

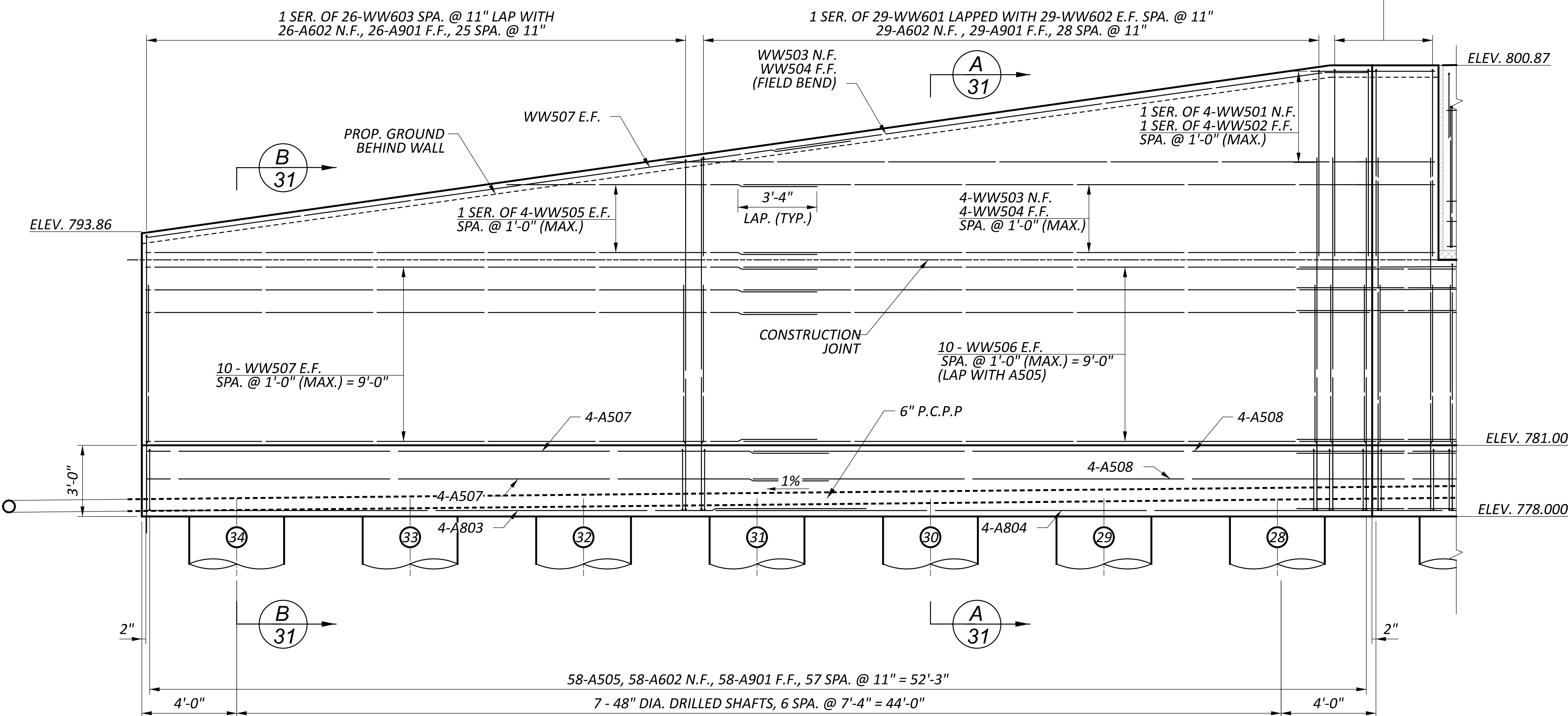


- NOTES:**
- FOR WINGWALL SECTIONS AND DETAILS, SEE SHEET 31.
 - FOR ABUTMENT FOUNDATION PLAN SEE SHEET 25.
 - FOR DRILLED SHAFT REINFORCING SEE SHEET 31.
 - PROVIDE TYPE 2 WATERPROOFING AT ALL CONSTRUCTION JOINTS ABOVE THE FOOTING ADJACENT TO BACKFILL.
 - THE MINIMUM LAP LENGTHS ARE AS FOLLOWS:
 #5 - 3'-1" (HORIZONTAL)
 #6 - 3'-7" (VERTICAL)
 #8 - 4'-9" (HORIZONTAL)
 #9 - 5'-10" (VERTICAL)

SFN	8306272
DESIGN AGENCY	
DESIGNER	CHECKER
GTF	SRK
REVIEWER	
CAH	
PROJECT ID	112975
SUBSET	TOTAL
7	20
SHEET	TOTAL
28	50



WINGWALL #3 PLAN



WINGWALL #3 ELEVATION

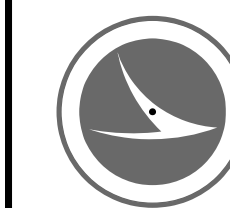
NOTES:

1. FOR WINGWALL SECTIONS AND DETAILS, SEE SHEET 31.
2. FOR ABUTMENT FOUNDATION PLAN SEE SHEET 25.
3. FOR DRILLED SHAFT REINFORCING SEE SHEET 31.
4. PROVIDE TYPE 2 WATERPROOFING AT ALL CONSTRUCTION JOINTS ABOVE THE FOOTING ADJACENT TO BACKFILL.
5. THE MINIMUM LAP LENGTHS ARE AS FOLLOWS:
 #5 - 3'-1" (HORIZONTAL)
 #6 - 3'-7" (VERTICAL)
 #8 - 4'-9" (HORIZONTAL)
 #9 - 5'-10" (VERTICAL)

WINGWALL DETAILS
BRIDGE No.: WAR-350-0873
STATE ROUTE 350 OVER TODD'S FORK

SFN
8306272

DESIGN AGENCY



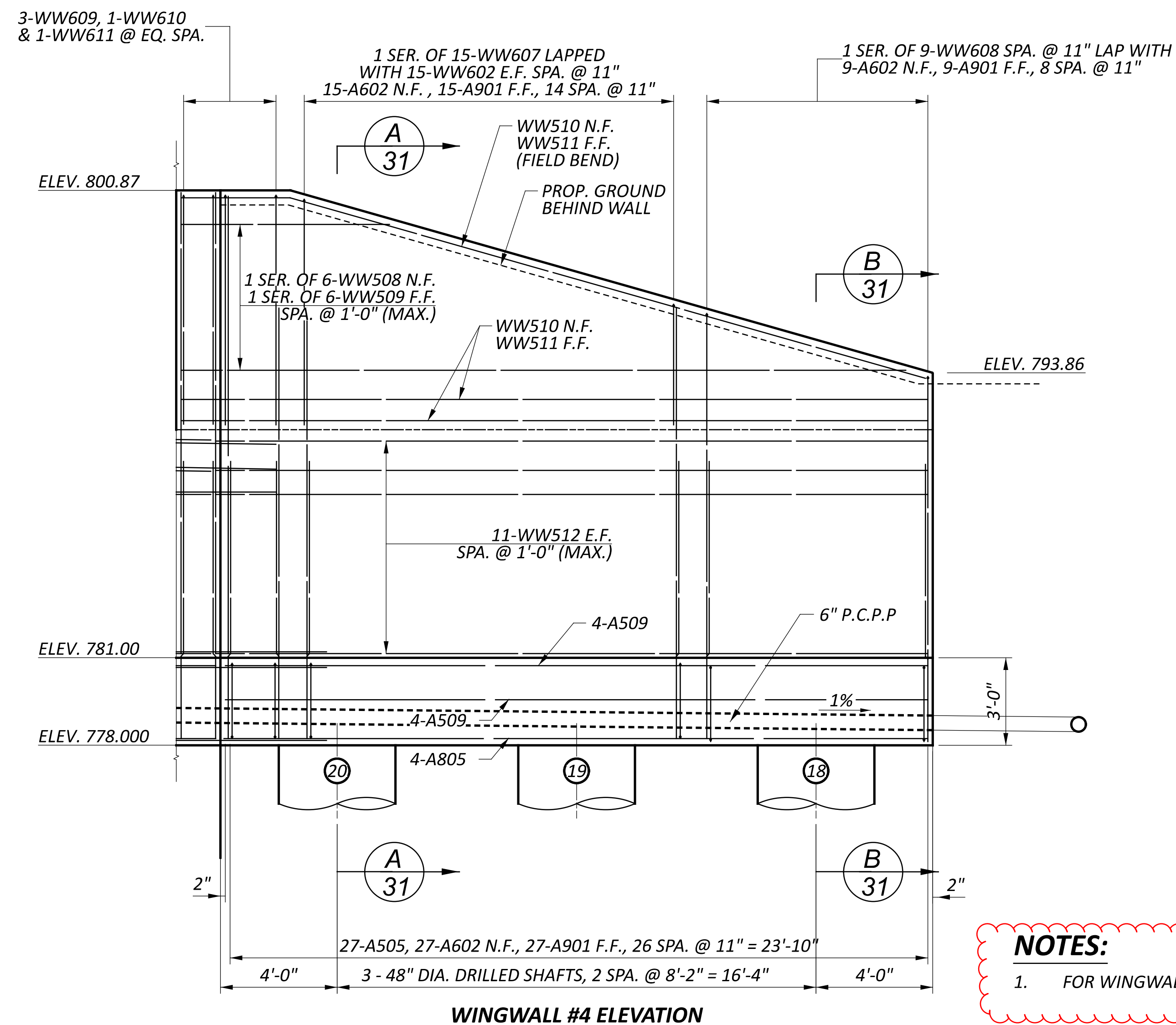
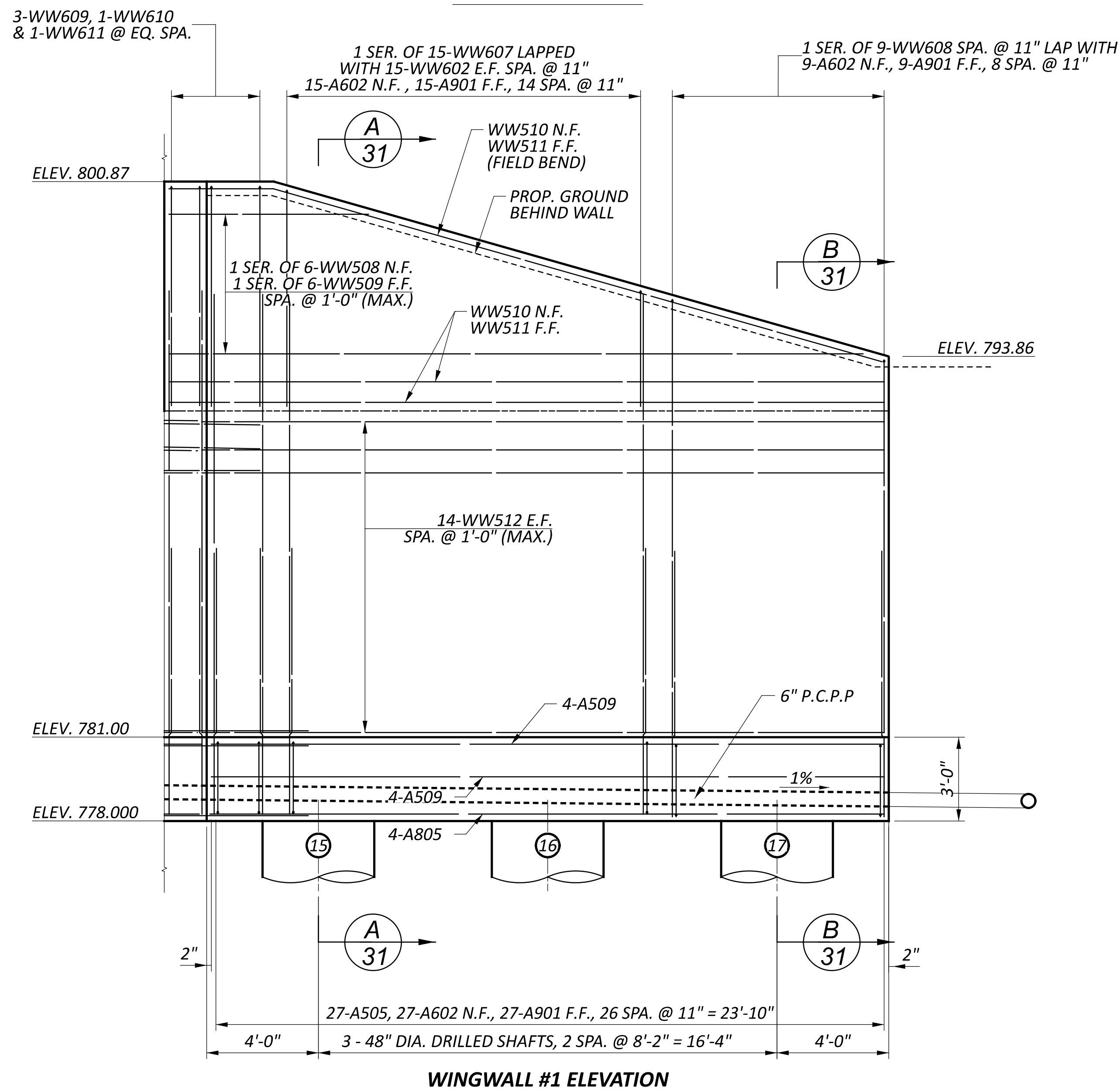
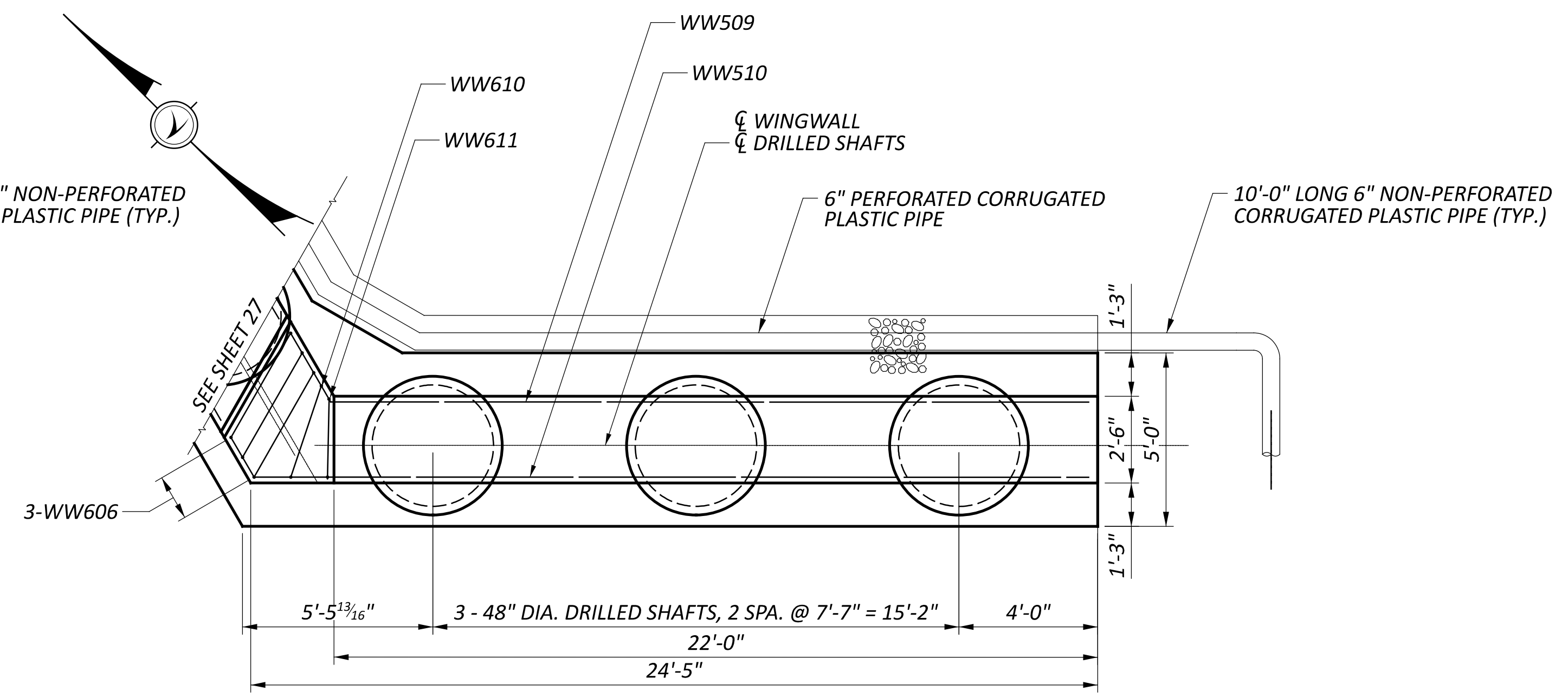
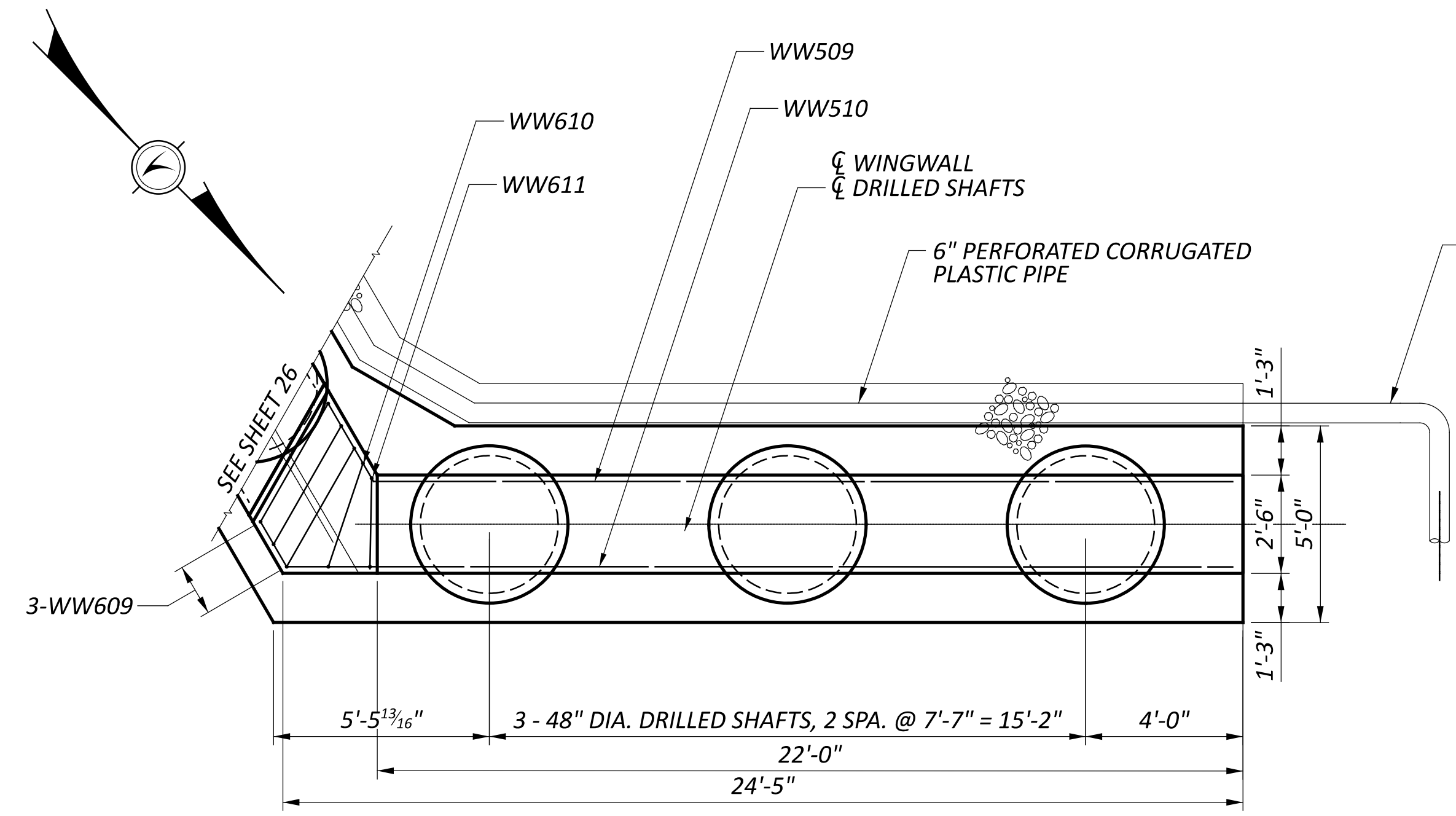
DESIGNER: GTF
CHECKER: SRK

REVIEWER: CAH

PROJECT ID: 112975

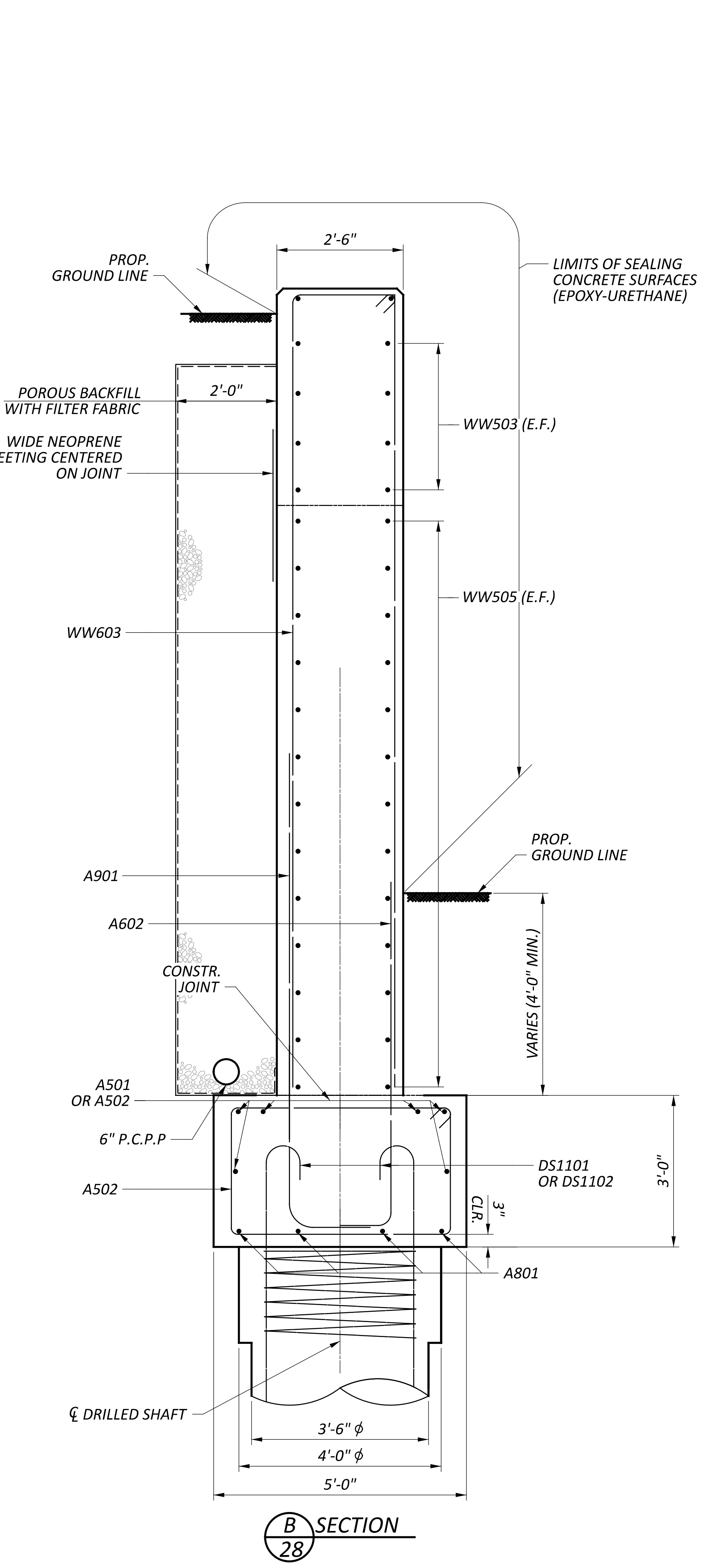
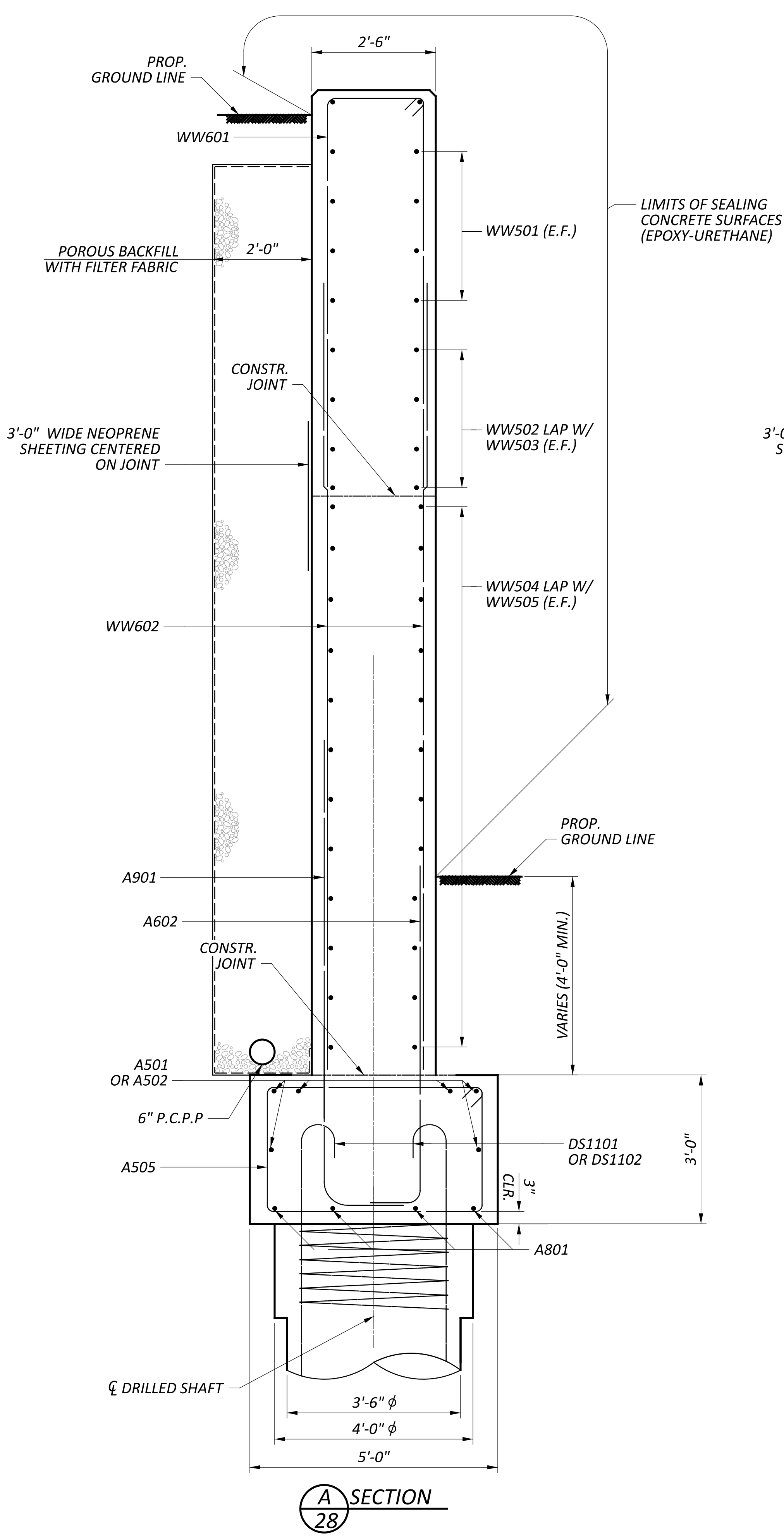
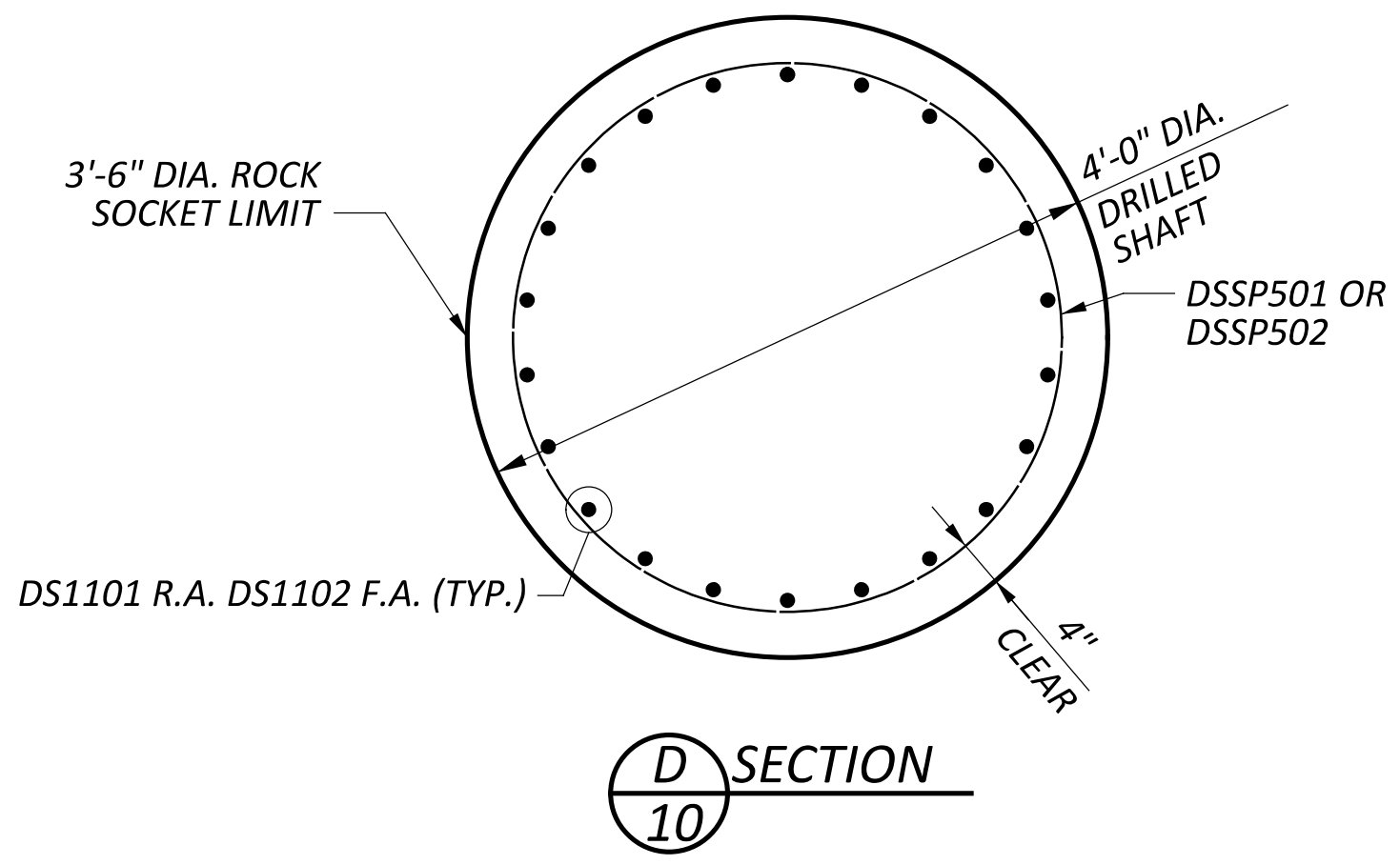
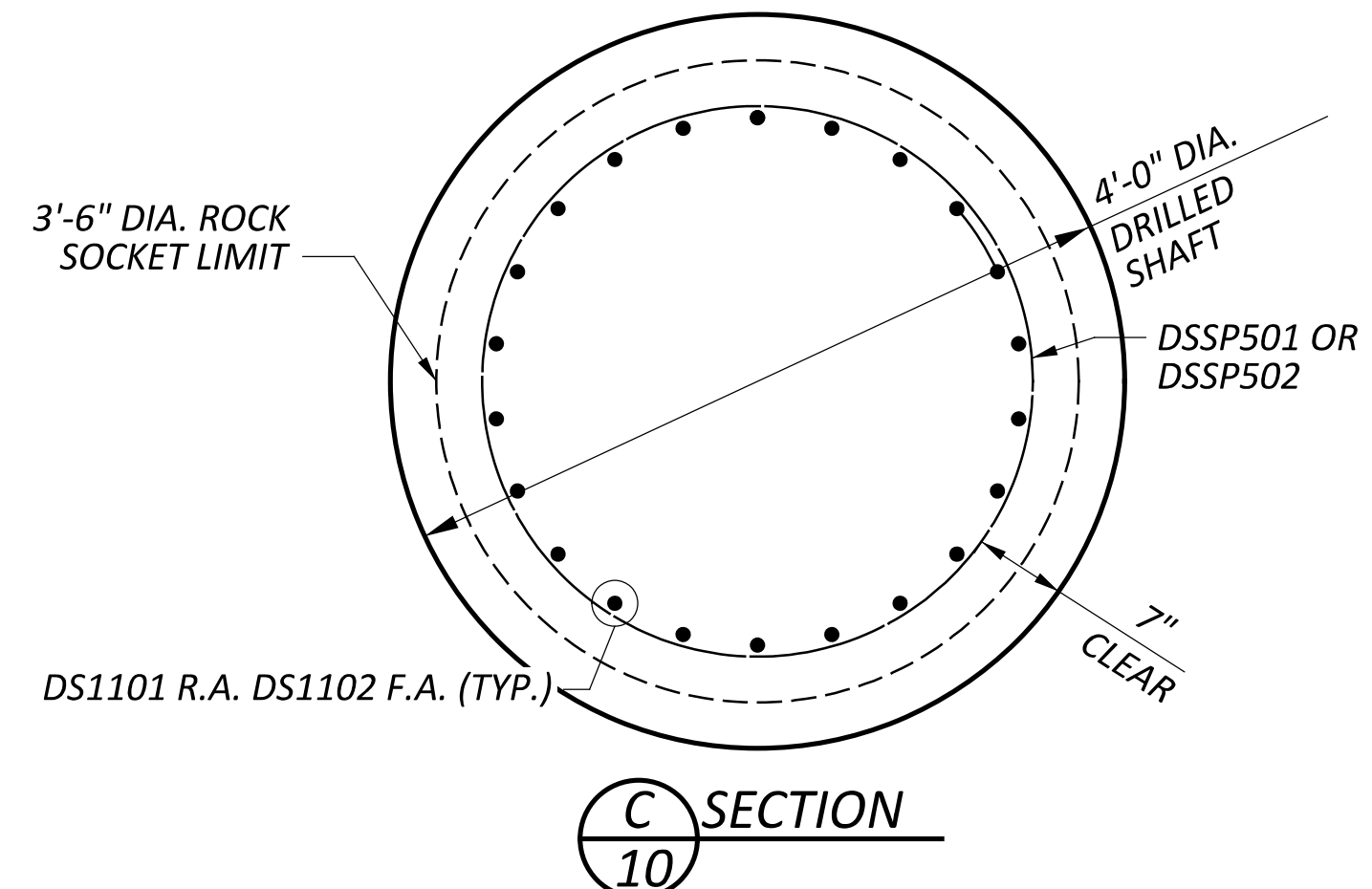
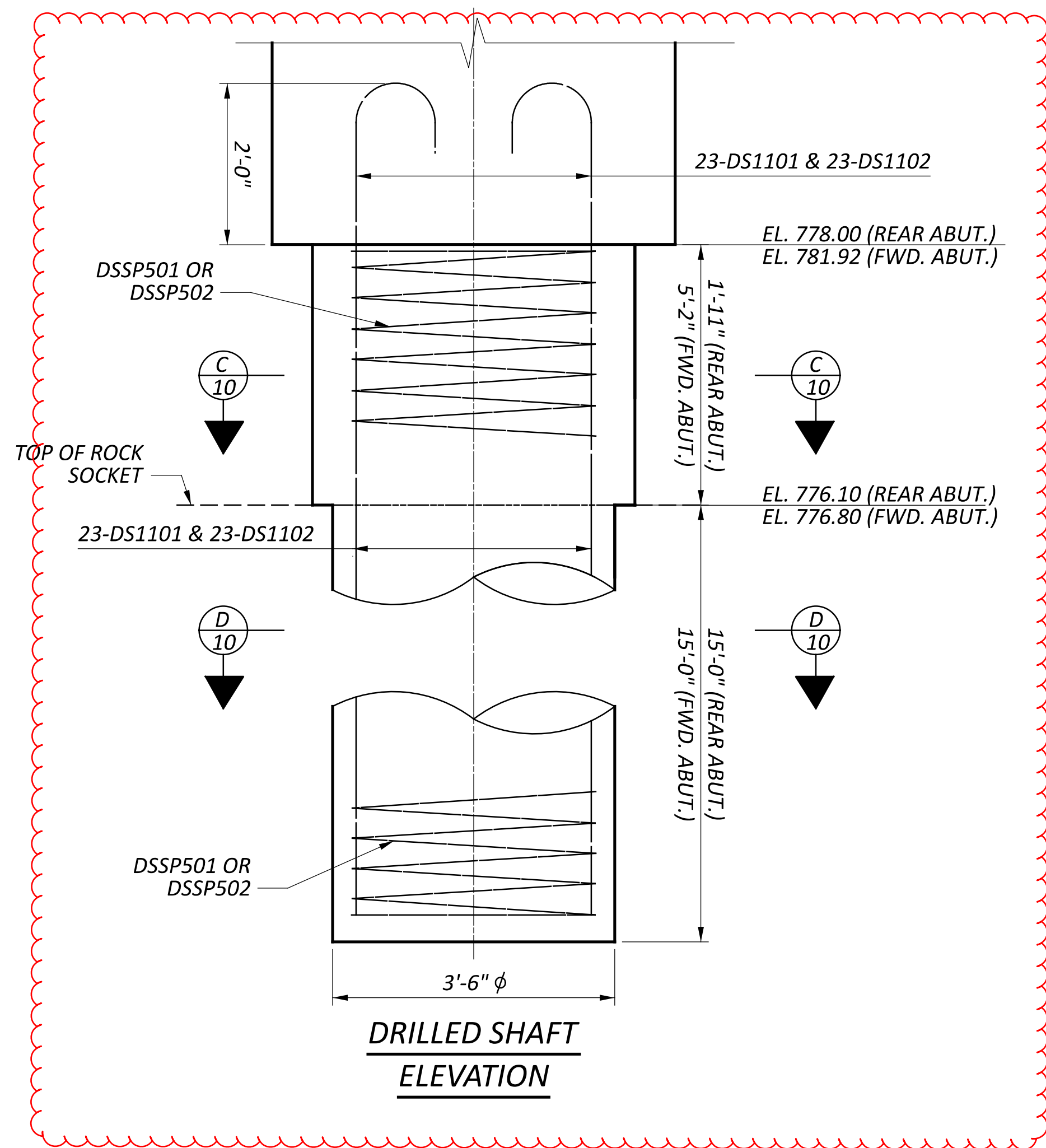
SUBSET	TOTAL
8	20

SHEET	TOTAL
29	50



NOTES:
 1. FOR WINGWALL NOTES, SEE SHEET

SFN		8306272
DESIGN AGENCY		
DESIGNER	CHECKER	REVIEWER
GTF	SRK	
CAH		
PROJECT ID		
112975		
SUBSET	TOTAL	
9	20	
SHEET	TOTAL	
30	50	



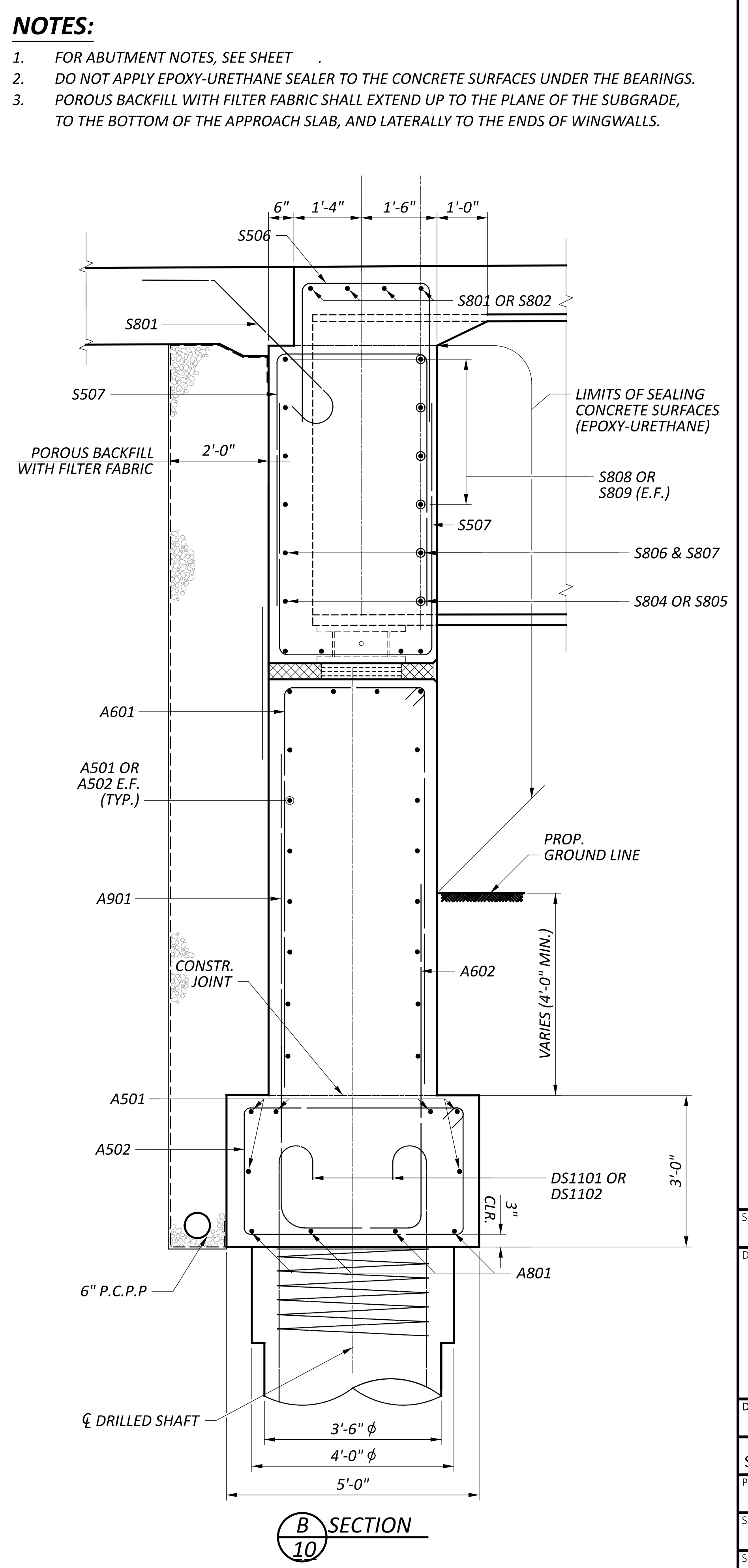
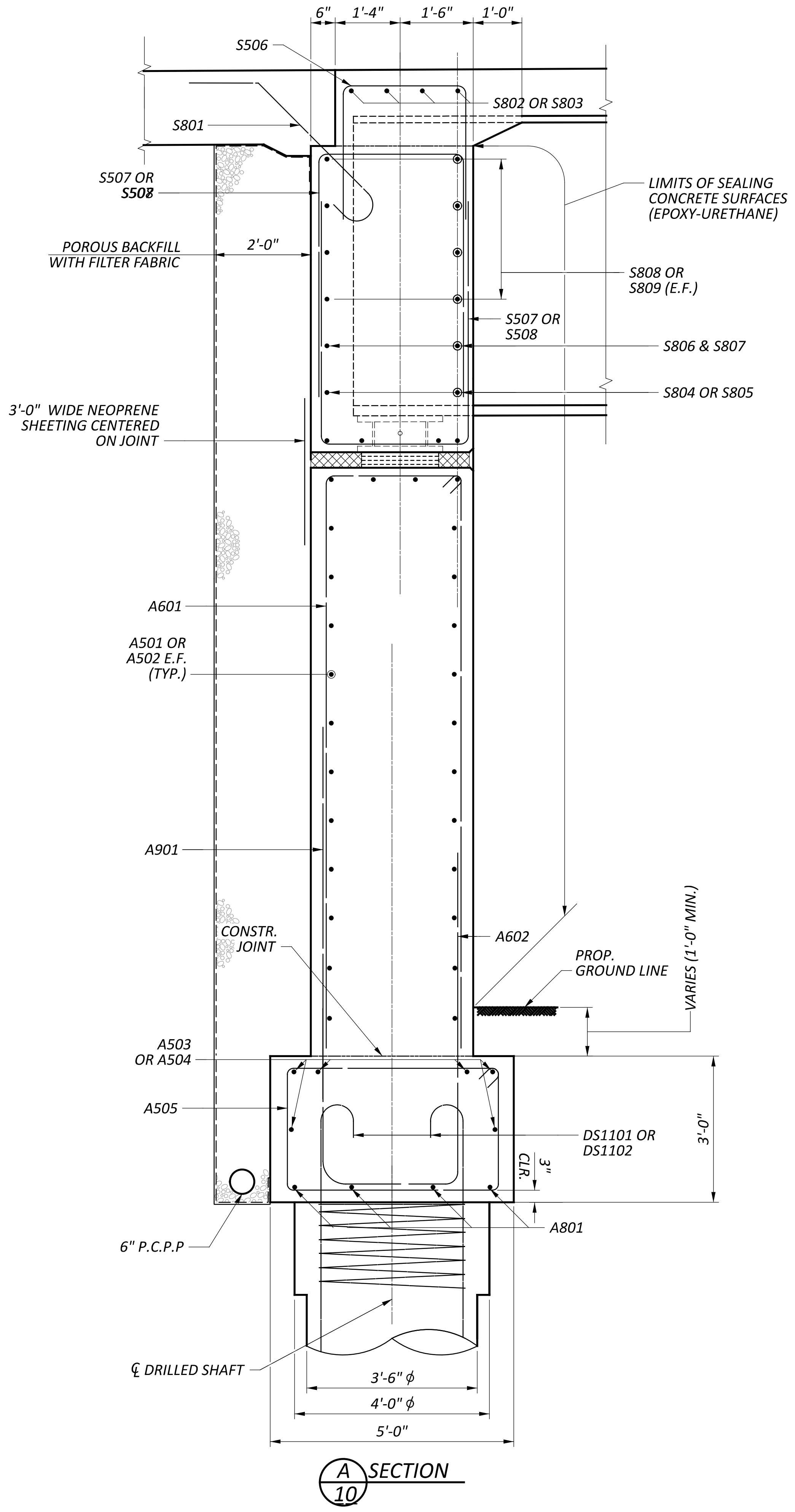
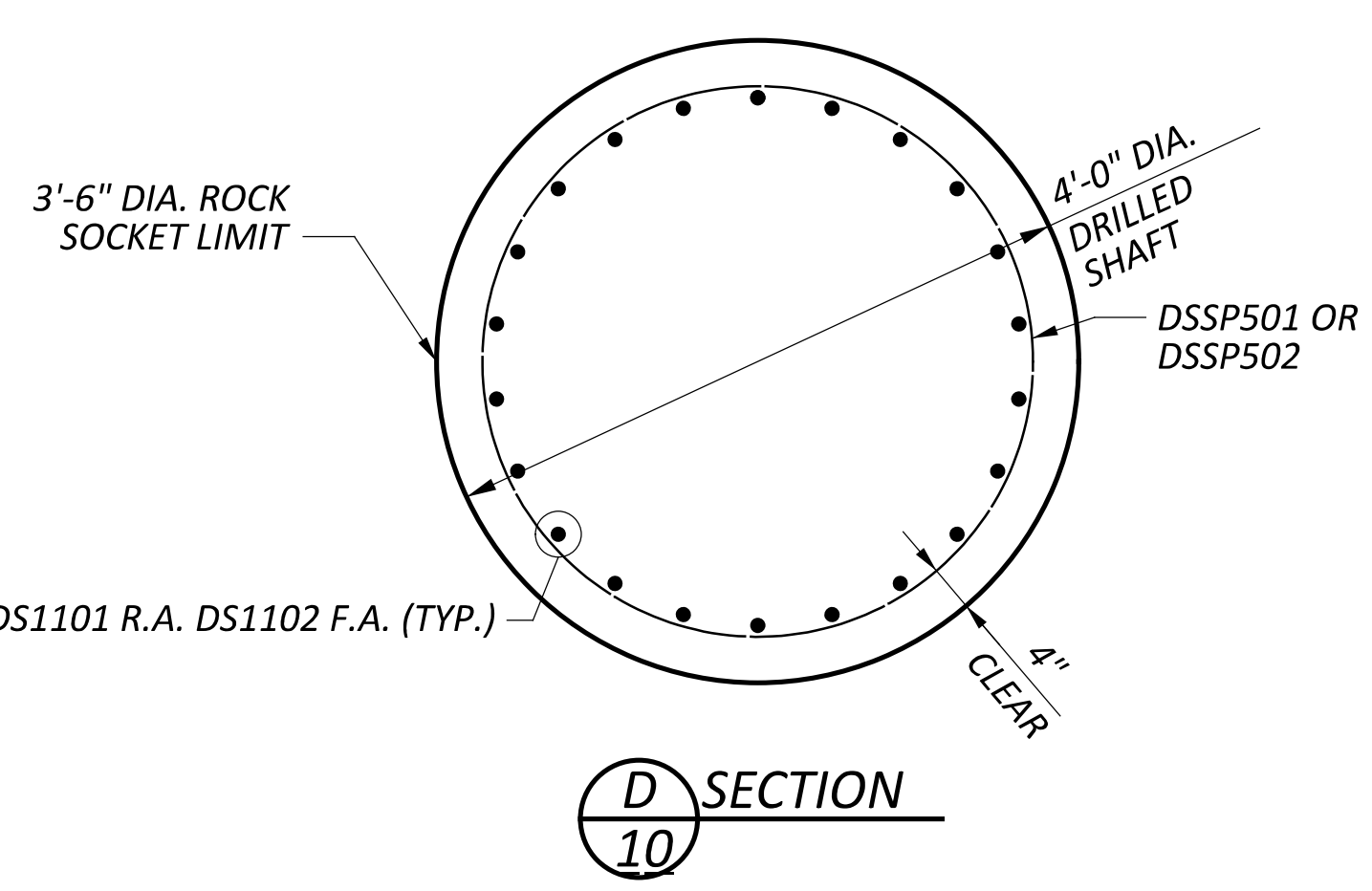
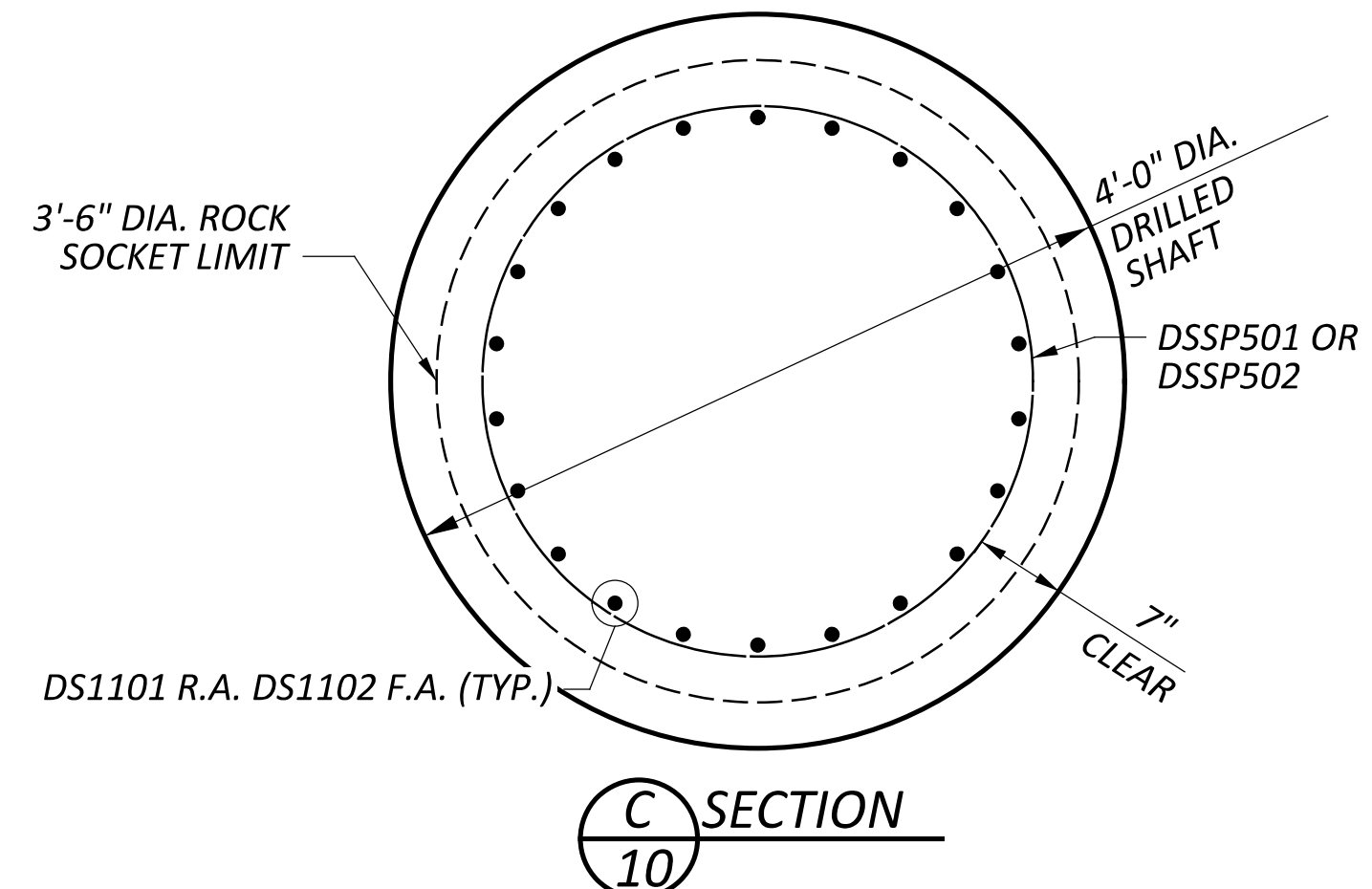
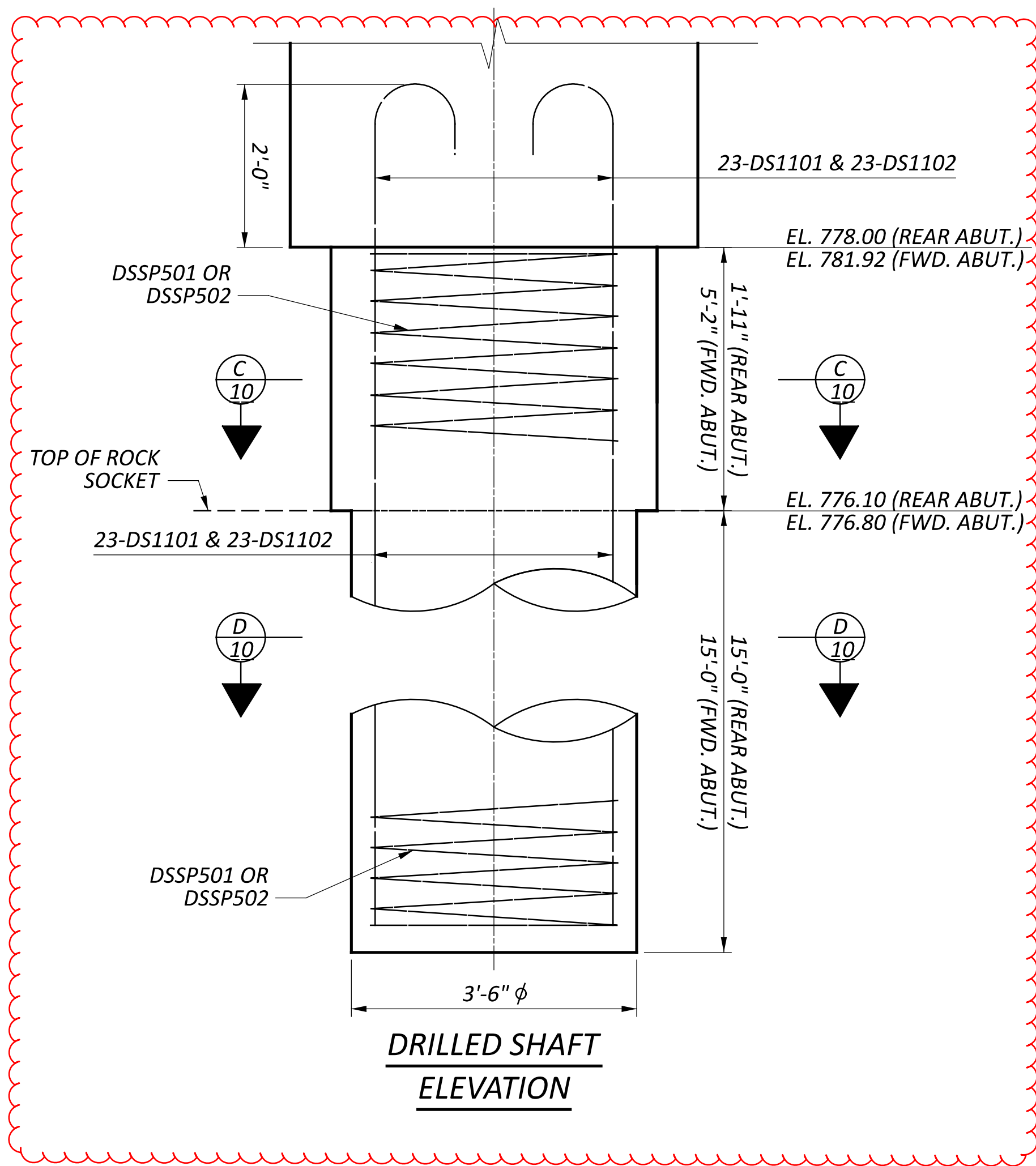
WINGWALL SECTIONS
 BRIDGE No.: WAR-350-0873
 STATE ROUTE 350 OVER TODD'S FORK

SFN
 8306272
 DESIGN AGENCY

DESIGNER: GTF
 CHECKER: SRK
 REVIEWER: CAH

PROJECT ID: 112975

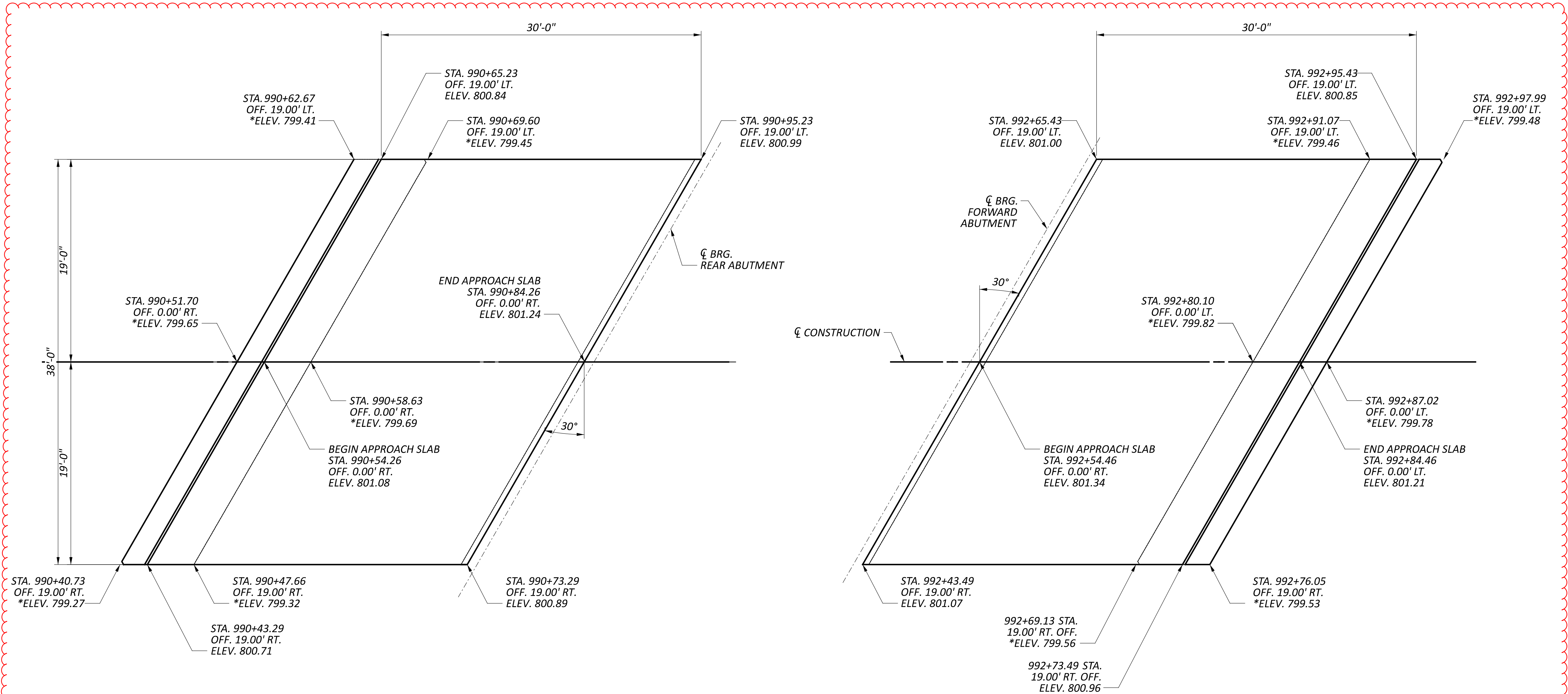
SUBSET	TOTAL
10	20
SHEET	TOTAL
31	50



- NOTES:**
- FOR ABUTMENT NOTES, SEE SHEET
 - DO NOT APPLY EPOXY-URETHANE SEALER TO THE CONCRETE SURFACES UNDER THE BEARINGS.
 - POROUS BACKFILL WITH FILTER FABRIC SHALL EXTEND UP TO THE PLANE OF THE SUBGRADE, TO THE BOTTOM OF THE APPROACH SLAB, AND Laterally TO THE ENDS OF WINGWALLS.

ABUTMENT SECTIONS
 BRIDGE No.: WAR-350-0873
 STATE ROUTE 350 OVER TODD'S FORK

SFN	8306272
DESIGN AGENCY	
DESIGNER	CHECKER
GTF	CAH
SRK	REVIEWER
PROJECT ID	112975
SUBSET	TOTAL
11	20
SHEET	TOTAL
32	50



LEGEND

* - SLEEPER SLAB ELEVATION

NOTES

1. SEE STD. DWGS. AS-1-15 AND AS-2-15 FOR ADDITIONAL NOTES AND DETAILS.
2. SLEEPER SLAB ELEVATIONS ARE TAKEN AT THE TOP OF THE SLEEPER SLAB.

APPROACH SLABS
 BRIDGE No.: WAR-350-0873
 STATE ROUTE 350 OVER TODD'S FORK

SFN
 8306272

DESIGN AGENCY



DESIGNER: GTF
 CHECKER: SRK

REVIEWER: CAH

PROJECT ID: 112975

SUBSET	TOTAL
19	20

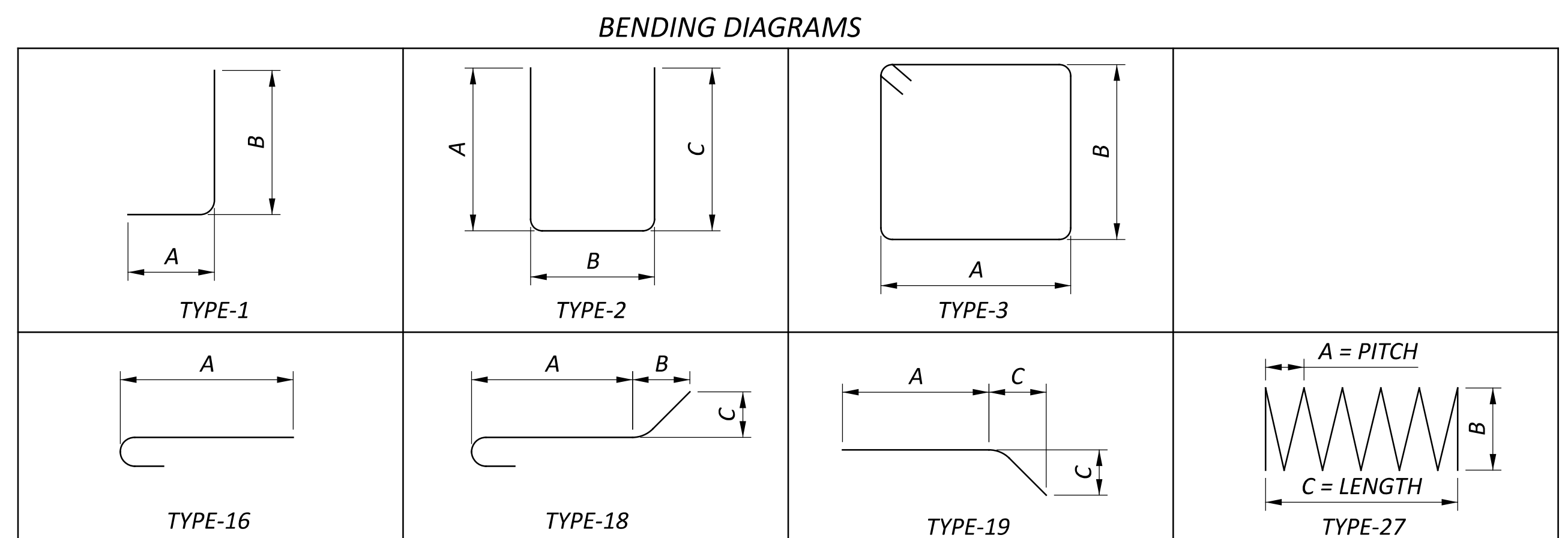
SHEET	TOTAL
40	50

MARK	NUMBER						LENGTH	WEIGHT	TYPE	DIMENSIONS				
	REAR ABUT.	FORWARD ABUT.	WINGWALL #1	WINGWALL #2	WINGWALL #3	WINGWALL #4				TOTAL	A	B	C	INC
ABUTMENTS														
A501	22	16					38	30'-0"	1189	STR				
A502	22	16					38	25'-7"	1014	STR				
A503	6	6					12	30'-0"	375	STR				
A504	6	6					12	27'-6"	344	STR				
A505	55	55	58	58	27	27	280	15'-2"	4429	3	4'-8"	2'-7"		
A507				6	6		12	30'-0"	375	STR				
A508	8	8					16	23'-7"	394	STR				
A509				6	6		12	24'-1"	301	STR				
A510	9	9					18	11'-7"	217	2	4'-8"	2'-5 3/4"	4'-8"	
A511	17	14					31	6'-11"	224	19	3'-6"	2'-10"	2'-0"	
A512	17	14					31	6'-11"	224	19	3'-6"	1'-9"	3'-0"	
A601	52	52					104	26'-2"	4087	2	11'-9"	3'-0"	11'-9"	
A602	52	52					104	7'-10"	1224	1	1'-1 1/2"	6'-10"		
A603	52	52					104	18'-6"	2890	2	7'-10 3/4"	3'-0"	7'-10 3/4"	
A801	4	4					8	30'-2"	644	STR				
A802	4	4					8	30'-8"	655	STR				
A803				4	4		8	30'-0"	641	STR				
A804				4	4		8	27'-2"	580	STR				
A805			4			4	8	24'-1"	514	STR				
A806	5	5					10	10'-8"	285	19	5'-4"	4'-4"	3'-2"	
A807	5	5					10	10'-8"	285	19	5'-4"	2'-8"	4'-8"	
A901	52	52					104	10'-9"	3801	1	1'-6 1/2"	9'-6"		
WW501				1 SR OF	1 SR OF		2 SR OF	10'-8" TO		19	7'-8" TO	2'-5 3/4"	1'-9"	7'-0 1/4"
				4	4		4	31'-9"			28'-9"			
				1 SR	1 SR		2 SR	8'-11"			7'-2 1/2"			
WW502				OF	OF		OF	TO	163	19	TO	1'-5 1/4"	1'-0"	7'-0 3/4"
				4	4		4	30'-2"			28'-5"			
WW503				5	5		10	33'-0"	344	19	30'-0"	2'-5 3/4"	1'-9"	
WW504				5	5		10	31'-9"	330	19	30'-0"	1'-5 1/4"	1'-0"	
				2 SR	2 SR		4 SR	9'-4"						
WW505				OF	OF		OF	TO	289	STR				5'-3 3/4"
				4	4		4	25'-3"						
WW506				26	20		46	26'-6"	1271	STR				
WW507				28	22		50	30'-0"	1565	STR				
				1 SR			1 SR	6'-7"			5'-3 1/2"			
WW508				OF			OF	TO	192	19	TO	0'-8"	1'-1 1/4"	3'-6 1/4"
				6			6	24'-2"			22'-10 3/4"			
				1 SR			1 SR	7'-6"			5'-3 1/2"			
WW509				OF			OF	TO	204	19	TO	1'-2"	1'-11 3/4"	3'-6 1/4"
				6			6	25'-2"			22'-10 3/4"			
WW510				2			4	24'-11"	104	19	23'-7 3/4"	0'-8"	1'-1 1/4"	
WW511				2			4	25'-11"	108	19	23'-7 3/4"	1'-2"	1'-11 3/4"	
WW512				28			50	24'-2"	1260	STR				
				1 SR	1 SR		2 SR	17'-6"			4'-1 1/4"		4'-1 1/4"	
WW601				OF	OF		OF	TO	1205	2	TO	2'-2"	TO	1'-10 1/2"
				29	29		29	10'-1"			7'-10"		7'-10"	
WW602				94	94		188	15'-10"	4477	STR				
				1 SR	1 SR		2 SR	26'-10"			12'-5 3/4"		12'-5 3/4"	
WW603				OF	OF		OF	TO	2350	2	TO	2'-2"	TO	0'-1 1/2"
				26	26		26	33'-4"			15'-8 3/4"		15'-8 3/4"	
				1 SR	1 SR		2 SR	18'-4"			3'-0"			
WW604				OF	OF		OF	TO	222	2	7'-10"	TO	7'-10"	0'-1"
				4	4		4	18'-8"			3'-3 3/4"			
WW605				1	1		2	18'-0"	54	2	7'-10"	2'-7"	7'-10"	
WW606				1	1		2	17'-7"	53	2	7'-10"	2'-3"	7'-10"	
				1 SR			1 SR	17'-6"			4'-1"		4'-1"	
WW607				OF			OF	TO	620	2	TO	2'-2"	TO	1'-8 3/4"
				15			15	10'-0"			7'-10"		7'-10"	
				1 SR			1 SR	28'-6"			13'-4"		13'-4"	
WW608				OF			OF	TO	829	2	TO	2'-2"	TO	0'-3 1/4"
				9			9	32'-10"			15'-6"		15'-6"	
WW609				3			6	18'-10"	170	2	7'-10"	3'-5 1/2"	7'-10"	
WW610				1			2	18'-1"	54	2	7'-10"	2'-9 1/4"	7'-10"	
WW611				1			2	17'-8"	53	2	7'-10"	2'-4 1/4"	7'-10"	
SUB-TOTAL								40,786						


MARK	NUMBER			LENGTH	WEIGHT	TYPE	DIMENSIONS					
	REAR ABUT.	FORWARD ABUT.	TOTAL				A	B	C	D	R	INC
ABUTMENT DIAPHRAGMS												
S506	33	33	66	7'-5"	511	2	2'-9"	2'-9"				
S507	58	58	116	12'-9"	1543	2	5'-0"	3'-0"	5'-0"			
S508	8	8	16	11'-1"	185	2	4'-2"	3'-0"	4'-2"			
S801	34	34	68	5'-9"	1044	18	3'-6 1/4"	1'-0"	1'-0"			
S802	12	12	24	22'-9"	1458	STR						
S803	12	12	24	30'-0"	1923	STR						
S804	4	4	8	10'-4"	221	1	1'-9"	8'-9 3/4"				
S805	2	2	4	24'-11"	266	2	1'-7"	22'-1 1/2"	1'-7"			
S806	4	4	8	8'-9"	187	STR						
S807	2	2	4	22'-1"	236	STR						
SUB-TOTAL					7,574							

MARK	NUMBER			LENGTH	WEIGHT	TYPE	DIMENSIONS					
	REAR ABUT.	FORWARD ABUT.	TOTAL				A	B	C	D	R	INC
ABUTMENT DRILLED SHAFTS (FOR INFORMATION ONLY)												
DS1101	391		391	23'-9"	98676	16	22'-2"					
DS1102		391	391	20'-6"	42586	16	18'-11"					
DSSP501	17		17	654'-0"	59070	27	0'-3 3/4"	2'-11 3/4"	21'-9"			
DSSP502		17	17	560'-4"	50610	27	0'-3 3/4"	2'-11 3/4"	18'-6"			
SUB-TOTAL					250,942							

MARK	NUMBER	LENGTH	WEIGHT	TYPE	DIMENSIONS							
					A	B	C	D	E	R	INC	
DECK												
S401	294	30'-0"	5892	STR								
S402	49	10'-0"	327	STR								
S403	816	4'-5"	2407	2	0'-8"	1'-4"	2'-7 1/2"					
S404	2	4'-3"	6	STR								
S405	2	4'-0"	5	STR								
S406	2	3'-9"	5	STR								
S407	2	43'-6"	58	STR								
S501	282	30'-0"	8824	STR								
S502	47	10'-0"	490	STR								
S503	710	37'-8"	27893	STR								
S504	4 SR OF	5'-0" TO	4078	STR								
S505	46	37'-6"										
S506	816	7'-5"	6312	16	6'-10"							
S507	4	4'-3"	18	STR								
S508	4	4'-0"	17	STR								
S509	4	3'-9"	16	STR								
S509	2	43'-6"	91	STR								
SUB-TOTAL			56,439									



REINFORCING STEEL LIST
 BRIDGE No.: WAR-350-0873
 STATE ROUTE 350 OVER TODD'S FORK

SFN 8306272
 DESIGN AGENCY

 DESIGNER: GTF
 CHECKER: SRK
 REVIEWER: CAH
 PROJECT ID: 112975
 SUBSET: 20 TOTAL: 20
 SHEET: 41 TOTAL: 50