

STANDARD DRAWINGS AND SUPPLEMENTAL SPECIFICATIONS

CALC:	JAZ	DATE:	10/24/2022
CHECKED:	MCM	DATE:	12/5/2022

REFER TO THE FOLLOWING SUPPLEMENTAL SPECIFICATIONS:

- 800 DATED SEE PROPOSAL
- 832 DATED 7/15/2022
- 851 DATED 1/21/2022
- 878 DATED 1/21/2022
- 902 DATED 7/19/2019
- 940 DATED 4/17/2015

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.

DESIGN LOADING

VEHICULAR LIVE LOAD: HL-93
 FUTURE WEARING SURFACE (FWS) OF 0.060 KIPS/SQ.FT

DESIGN DATA

CAST-IN-PLACE STRUCTURES:
 CONCRETE CLASS QC1 - 4.0 KSI
 REINFORCING STEEL - ASTM A615, A616, OR A617 (Fy = 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 C&MS, 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.

HEADWALL ANCHOR DOWELS

ANCHOR PER CMS 510 WITH NONSHRINK, NONMETALLIC GROUT CONFORMING TO CMS 705.20 AND TO A DEPTH SPECIFIED ON SHEET [4/5] PAYMENT FOR DOWEL HOLES, GROUT AND INSTALLATION SHALL BE INCLUDED WITH ITEM 511.

THREADED INSERTS OR NON-PROTRUDING MECHANICAL CONNECTORS CAPABLE OF DEVELOPING AT LEAST 125 PERCENT OF THE SPECIFIED YIELD STRENGTH OF THE REINFORCEMENT SHOWN ARE AN ACCEPTABLE ALTERNATIVE TO RESIN BONDING. MAINTAIN A MINIMUM COVER OF 3 INCHES AT THE BOTTOM OF THE CULVERT SLAB. MECHANICAL CONNECTORS SHALL HAVE AN "L-SHAPED" BAR INSIDE THE CULVERT WITH A MINIMUM HORIZONTAL LENGTH OF 12 INCHES. THE DEPARTMENT WILL CONSIDER PAYMENT FOR INSERTS OR MECHANICAL CONNECTORS AS INCIDENTAL TO ITEM 611.

ESTIMATED QUANTITIES (01/STR/BR)				
ITEM	EXTENSION	TOTAL	UNIT	DESCRIPTION
202	11000	LS		STRUCTURE REMOVED
202	20010	2	EACH	HEADWALL REMOVED
202	23500	39	SY	WEARING COURSE REMOVED
503	11100	LS		COFFERDAMS AND EXCAVATION BRACING
503	21301	LS		UNCLASSIFIED EXCAVATION, AS PER PLAN
509	10000	4070	LB	EPOXY COATED REINFORCING STEEL
511	46510	46	CY	CLASS QC1 CONCRETE, FOOTING
511	46610	1	CY	CLASS QC1 CONCRETE, HEADWALL
512	10100	68	SY	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)
512	33000	367	SY	TYPE 2 WATERPROOFING
601	32110	56	CY	ROCK CHANNEL PROTECTION, TYPE B WITH AGGREGATE FILTER
611	96321	96	FT	14' X 7' CONDUIT, TYPE A, 706.05, AS PER PLAN
851	10000	360	SF	PRECAST GRAVITY AND SEMIGRAVITY RETAINING WALL
851	11000	7	CY	NATURAL SOIL
851	14000	2	DAY	ON-SITE ASSISTANCE
851	15000	LS		WALL DRAINAGE SYSTEM
851	15500	LS		PGSRW INSPECTION AND COMPACTION TESTING

PRECAST FORESLOPE WALLS

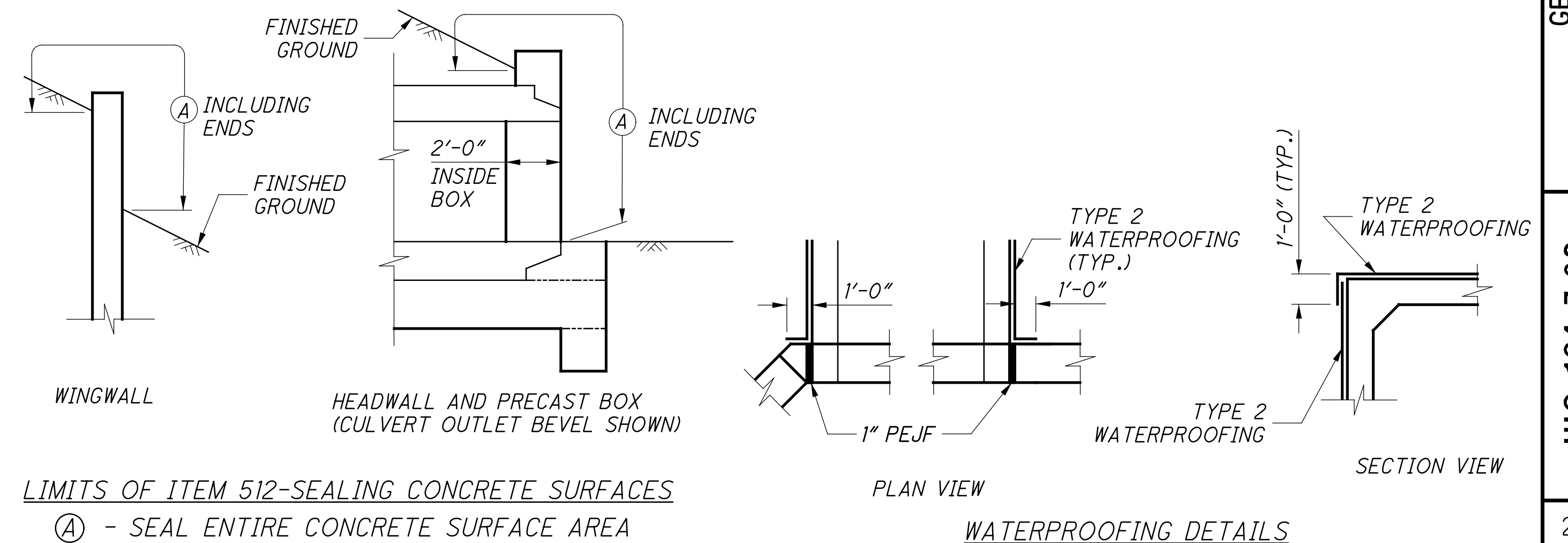
IF THE CONTRACTOR CHOOSES AN APPROVED PGSRW SYSTEM THAT UTILIZES A PRECAST FORESLOPE WALL IN ACCORDANCE WITH SS851, THE DEPARTMENT WILL PAY FOR ALL COSTS ASSOCIATED WITH THE PRECAST FORESLOPE INCLUDING CONCRETE REINFORCEMENT AT THE UNIT BID PRICE FOR ITEM 511 - CLASS QC1 CONCRETE, HEADWALL AS SHOWN IN THE ESTIMATED QUANTITIES. THE DEPARTMENT WILL NON-PERFORM PAYMENT FOR ITEM 509 FOR ALL PLAN REINFORCEMENT SHOWN IN THE FORESLOPE WALL WHEN APPROVED PRECAST FORESLOPE WALLS ARE PROVIDED. IF THE CONTRACTOR CHOOSES TO CAST THE PLAN SPECIFIED FORESLOPE WALL ON THE ITEM 611 CULVERT SEGMENT AT THE FABRICATOR FACILITY, THE DEPARTMENT WILL PAY FOR CONCRETE AND REINFORCEMENT ACCORDING TO THE PLAN QUANTITIES WITH NO ADJUSTMENTS.

PRECAST FOOTINGS

IF THE CONTRACTOR CHOOSES AN APPROVED PGSRW SYSTEM THAT UTILIZES A PRECAST FOOTING IN ACCORDANCE WITH SS851, THE DEPARTMENT WILL PAY FOR ALL COSTS ASSOCIATED WITH THE PRECAST FOOTING INCLUDING CONCRETE REINFORCEMENT AT THE UNIT BID PRICE FOR ITEM 511 - CLASS QC1 CONCRETE, FOOTING AS SHOWN IN THE ESTIMATED QUANTITIES. THE DEPARTMENT WILL NON-PERFORM PAYMENT FOR ITEM 509 FOR ALL PLAN REINFORCEMENT SHOWN IN THE FOOTINGS WHEN APPROVED PRECAST FOOTINGS ARE PROVIDED.

ITEM 611 - 14' X 7' CONDUIT, TYPE A, 706.05, AS PER PLAN

CMS 611 SHALL APPLY EXCEPT THAT THE PROPOSED 14' X 7' BOX CULVERT SHALL BE AS REQUIRED IN SUPPLEMENTAL SPECIFICATION 940.



LIMITS OF ITEM 512-SEALING CONCRETE SURFACES

Ⓐ - SEAL ENTIRE CONCRETE SURFACE AREA

WATERPROOFING DETAILS

GENERAL NOTES AND ESTIMATED QUANTITIES
 BRIDGE NO. HIG-134-0782
 OVER UNT OF LITTLE NORTH FORK WHITE OAK CREEK

HIG-134-7.82
 PID No. 93832

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DESIGN AGENCY
 ODOT DISTRICT 9
 ENGINEERING

REVIEWED DATE
 MCM 12/05/22
 STRUCTURE FILE NUMBER
 3602401

DRAWN
 JAZ
 REVISED

DESIGNED
 JAZ
 CHECKED
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