

SHEET NUM.										PART.	ITEM	ITEM	GRAND	UNIT	DESCRIPTION	SEE SHEET NO.
10	11	18	19	23						01/S50/ 11/NEWA	EXT	TOTAL				
<b>ROADWAY</b>																
LS	LS									LS	201	11000	LS		CLEARING AND GRUBBING	5
478	309									787	202	23000	787	SY	PAVEMENT REMOVED, ASPHALT	
510										510	202	30000	510	SF	WALK REMOVED	
266	206									472	202	32000	472	FT	CURB REMOVED	
121										121	202	35100	121	FT	PIPE REMOVED, 24" AND UNDER	
44	40									84	202	35200	84	FT	PIPE REMOVED, OVER 24"	
2	1									3	202	58000	3	EACH	MANHOLE REMOVED	
1										1	202	58100	1	EACH	CATCH BASIN REMOVED	
	62									62	202	75000	62	FT	FENCE REMOVED	
	1									1	202	98100	1	EACH	REMOVAL MISC.:BIRD HOUSE	5
155	130									285	203	10000	285	CY	EXCAVATION	
12	15									27	203	20000	27	CY	EMBANKMENT	
980	1,365									2,345	608	10000	2,345	SF	4" CONCRETE WALK	
	550									550	608	52000	550	SF	CURB RAMP	
266	206									472	609	26000	472	FT	CURB, TYPE 6	
<b>EROSION CONTROL</b>																
1	1									2	659	00100	2	EACH	SOIL ANALYSIS TEST	
36	36									72	659	00300	72	CY	TOPSOIL	
323	322									645	659	00500	645	SY	SEEDING AND MULCHING, CLASS 1	
5,000	5,000									10,000	832	30000	10,000	EACH	EROSION CONTROL	
<b>DRAINAGE</b>																
1										1	602	20000	1	CY	CONCRETE MASONRY	
270	206									476	605	06000	476	FT	4" BASE PIPE UNDERDRAINS	
24										24	611	01800	24	FT	8" CONDUIT, TYPE B	
95										95	611	04600	95	FT	12" CONDUIT, TYPE C	
	5									5	611	10400	5	FT	24" CONDUIT, TYPE B	
5	21									26	611	16400	26	FT	36" CONDUIT, TYPE B	
67	13									80	611	16600	80	FT	36" CONDUIT, TYPE C	
1										1	611	98180	1	EACH	CATCH BASIN, NO. 3A	
2	1									3	611	99574	3	EACH	MANHOLE, NO. 3	
<b>PAVEMENT</b>																
65	45									110	301	56000	110	CY	ASPHALT CONCRETE BASE, PG64-22, (449)	
65	53									118	304	20000	118	CY	AGGREGATE BASE	
46	31									77	407	10000	77	GAL	TACK COAT	
19	14									33	441	70000	33	CY	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (449), PG64-22	
23	15									38	441	70300	38	CY	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (449)	
18	3									21	452	10050	21	SY	6" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC MS	
	5									5	253	90100	5	SY	PAVEMENT REPAIR, MISC.:BRICK DRIVEWAY	20
	1									1	441	70500	1	CY	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (449), (DRIVEWAYS)	
<b>MAINTENANCE OF TRAFFIC</b>																
										LS	614	12420	LS		DETOUR SIGNING	
<b>TRAFFIC CONTROL</b>																
30										30	630	03100	30	FT	GROUND MOUNTED SUPPORT, NO. 3 POST	
16										16	630	80100	16	SF	SIGN, FLAT SHEET	
		14	16							30	644	00500	30	FT	STOP LINE	
		133	79							212	644	00620	212	FT	CROSSWALK LINE, 12"	
		30								30	647	20036	30	FT	CROSSWALK LINE, 12", TYPE B125, AS PER PLAN	
<b>STRUCTURE OVER 20 FOOT SPAN (LIC-MOULL-03433)</b>																
				LS						LS	202	11002	LS		STRUCTURE REMOVED, OVER 20 FOOT SPAN	
				LS						LS	202	11201	LS		PORTIONS OF STRUCTURE REMOVED, AS PER PLAN	23
				80						80	202	23500	80	SY	WEARING COURSE REMOVED	
				LS						LS	503	11100	LS		COFFERDAMS AND EXCAVATION BRACING	
				LS						LS	503	21300	LS		UNCLASSIFIED EXCAVATION	
				9,814						9,814	509	10000	9,814	LB	EPOXY COATED REINFORCING STEEL	
				222						222	509	10001	222	LB	EPOXY COATED REINFORCING STEEL, AS PER PLAN	23
				12						12	511	34448	12	CY	CLASS QC2 CONCRETE, BRIDGE DECK (PARAPET)	
				13						13	511	46010	13	CY	CLASS QC1 CONCRETE, RETAINING/WINGWALL NOT INCLUDING FOOTING	
				84						84	511	46510	84	CY	CLASS QC1 CONCRETE, FOOTING	
				4						4	511	46610	4	CY	CLASS QC1 CONCRETE, HEADWALL	

Qty Revised

Qty Revised

DESIGN AGENCY	AMERICAN STRUCTUREPOINT INC.
DESIGNER	AS
REVIEWER	AJL 05/13/22
PROJECT ID	111654
SHEET TOTAL	P.08 P.43

SHEET NUM.											PART.	ITEM	ITEM	GRAND	UNIT	DESCRIPTION	SEE SHEET NO.
23	29										01/S50/ 11/NEWA	EXT	TOTAL				
<b>STRUCTURE OVER 20 FOOT SPAN (LIC-MOULL-03433)</b>																	
128											128	512	10100	128	SY	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)	
67											67	512	33000	67	SY	TYPE 2 WATERPROOFING	
168											168	512	33010	168	SY	TYPE 3 WATERPROOFING	
36											36	516	13601	36	SF	1" PREFORMED EXPANSION JOINT FILLER, AS PER PLAN	
21											21	518	21200	21	CY	POROUS BACKFILL WITH GEOTEXTILE FABRIC	
47											47	518	39800	47	FT	4" PERFORATED CORRUGATED PLASTIC PIPE	
76											76	601	32204	76	CY	ROCK CHANNEL PROTECTION, TYPE C WITH GEOTEXTILE FABRIC	
47											47	611	70000	47	FT	CONDUIT, TYPE A, PRECAST REINFORCED CONCRETE THREE SIDED FLAT TOPPED CULVERT	
140											140	613	41200	140	CY	LOW STRENGTH MORTAR BACKFILL	
48											48	SPECIAL	69012050	48	SY	REINFORCED MESH FOR TRANSVERSE AND/OR LONGITUDINAL JOINTS AND CRACKS	
<b>STRUCTURE OVER 20 FOOT SPAN (LIC-JEFRD-30150)</b>																	
	LS										LS	202	11002	LS		STRUCTURE REMOVED, OVER 20 FOOT SPAN	
	LS										LS	202	11201	LS		PORTIONS OF STRUCTURE REMOVED, AS PER PLAN	
	66										66	202	23500	66	SY	WEARING COURSE REMOVED	
	LS										LS	503	11100	LS		COFFERDAMS AND EXCAVATION BRACING	
	LS										LS	503	21300	LS		UNCLASSIFIED EXCAVATION	
	6,755										6,755	509	10000	6,755	LB	EPOXY COATED REINFORCING STEEL	
	157										157	509	10001	157	LB	EPOXY COATED REINFORCING STEEL, AS PER PLAN	
	9										9	511	34448	9	CY	CLASS QC2 CONCRETE, BRIDGE DECK (PARAPET)	
	12										12	511	46010	12	CY	CLASS QC1 CONCRETE, RETAINING/WINGWALL NOT INCLUDING FOOTING	
	41										41	511	46510	41	CY	CLASS QC1 CONCRETE, FOOTING	
	4										4	511	46610	4	CY	CLASS QC1 CONCRETE, HEADWALL	
	119										119	512	10100	119	SY	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)	
	66										66	512	33000	66	SY	TYPE 2 WATERPROOFING	
	107										107	512	33010	107	SY	TYPE 3 WATERPROOFING	
	34										34	516	13601	34	SF	1" PREFORMED EXPANSION JOINT FILLER, AS PER PLAN	
	17										17	518	21200	17	CY	POROUS BACKFILL WITH GEOTEXTILE FABRIC	
	38										38	518	39800	38	FT	4" PERFORATED CORRUGATED PLASTIC PIPE	
	38										38	601	32204	38	CY	ROCK CHANNEL PROTECTION, TYPE C WITH GEOTEXTILE FABRIC	
	40										40	611	96488	40	FT	20' X 5' CONDUIT, TYPE A, 706.05	
	119										119	613	41200	119	CY	LOW STRENGTH MORTAR BACKFILL	
	42										42	SPECIAL	69012050	42	SY	REINFORCED MESH FOR TRANSVERSE AND/OR LONGITUDINAL JOINTS AND CRACKS	
<b>INCIDENTALS</b>																	
											LS	614	11001	LS		MAINTAINING TRAFFIC, AS PER PLAN	
											LS	623	10000	LS		CONSTRUCTION LAYOUT STAKES AND SURVEYING	
											LS	624	10000	LS		MOBILIZATION	

Qty Revised

Qty Revised

GENERAL SUMMARY

DESIGN AGENCY  
**STRUCTUREPOINT**  
 INC.

DESIGNER  
 AS

REVIEWER  
 AJL 05/13/22

PROJECT ID  
 111654

SHEET TOTAL  
 P.09 | P.43

**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, 2020 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:**

HL-93  
FUTURE WEARING SURFACE (FWS) OF 0.06 KSF

**DESIGN DATA:**

CONCRETE CLASS QC1 - COMPRESSIVE STRENGTH 4.0 KSI (FOOTINGS, HEADWALL, WINGWALLS)

REINFORCING STEEL - MINIMUM 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 C&MS SECTIONS 102.05 AND 105.02.

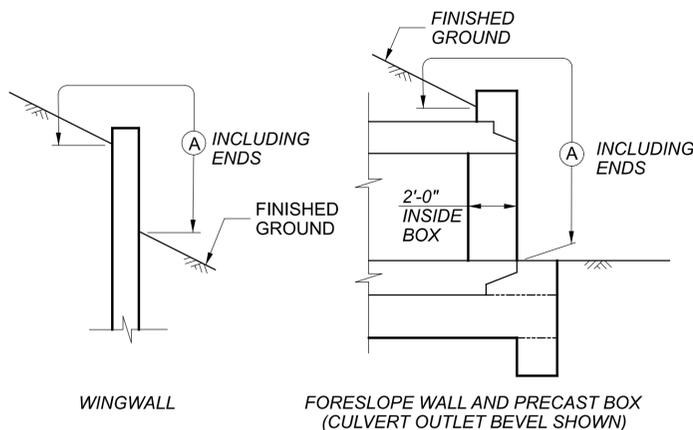
BASE CONTRACT BID PRICES UPON A RECOGNITION OF THE UNCERTAINTIES DESCRIBED ABOVE AND UPON A PREBID EXAMINATION OF THE EXISTING STRUCTURE. HOWEVER, THE DEPARTMENT WILL PAY FOR ALL PROJECT WORK BASED UPON ACTUAL DETAILS AND DIMENSIONS THAT HAVE BEEN VERIFIED IN THE FIELD.

**FOUNDATION BEARING RESISTANCE:**

CULVERT FOOTINGS, AS DESIGNED, PRODUCE A MAXIMUM SERVICE LIMIT STATE BEARING PRESSURE OF 2.16 KIPS PER SQUARE FOOT AND A MAXIMUM STRENGTH LIMIT BEARING PRESSURE OF 3.07 KIPS PER SQUARE FOOT. THE FACTORED BEARING RESISTANCE IS 3.1 KIPS PER SQUARE FOOT.

**SEALING OF FORESLOPE WALL AND WINGWALLS:**

ALL EXPOSED FORESLOPE WALL AND WINGWALL CONCRETE SHALL BE SEALED WITH EPOXY-URETHANE SEALER. THE LIMITS SHALL BE AS SHOWN IN THE DIAGRAMS BELOW. PAYMENT FOR THE EPOXY-URETHANE SEALER SHALL BE PER ITEM 512 - SEALING OF CONCRETE SURFACES (EPOXY-URETHANE).



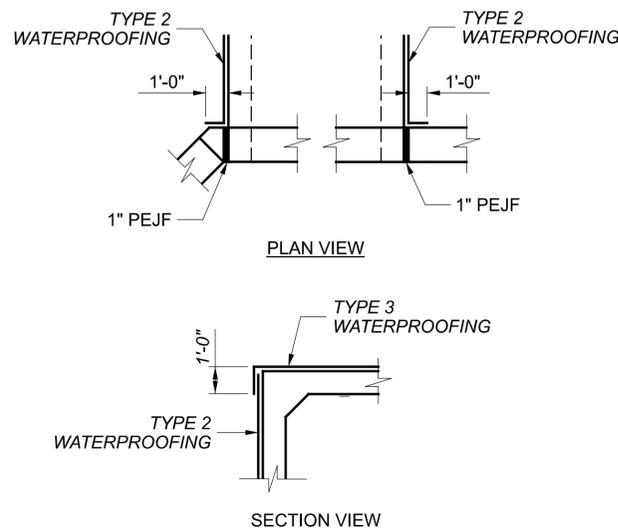
WINGWALL FORESLOPE WALL AND PRECAST BOX (CULVERT OUTLET BEVEL SHOWN)  
LIMITS OF ITEM 512-SEALING CONCRETE SURFACES  
A - SEAL ENTIRE CONCRETE SURFACE AREA

**WATERPROOFING:**

TYPE 2 WATERPROOFING, PER CMS 512.09 AND 711.25, SHALL EXTEND VERTICALLY DOWN THE ENTIRE SIDES OF THE PRECAST CULVERT SECTIONS FOR ALL PORTIONS OF THE CULVERT WHICH SHALL BE IN CONTACT WITH THE BACKFILL. PAYMENT FOR THE MEMBRANE WATERPROOFING SHALL BE AT THE CONTRACT PRICE BID PER SQUARE YARD FOR ITEM 512 - TYPE 2 WATERPROOFING.

TYPE 3 WATERPROOFING, PER CMS 512.10 AND 711.29 SHALL BE APPLIED TO THE ENTIRE TOP SURFACE OF THE PRECAST CULVERT SECTIONS AND SHALL EXTEND ONE FOOT VERTICALLY DOWN THE SIDES FOR ALL PORTIONS OF THE CULVERT WHICH SHALL BE IN CONTACT WITH THE BACKFILL. PAYMENT FOR THE MEMBRANE WATERPROOFING SHALL BE AT THE CONTRACT PRICE BID PER SQUARE YARD FOR ITEM 512 - TYPE 3 WATERPROOFING.

**WATERPROOFING DETAILS**



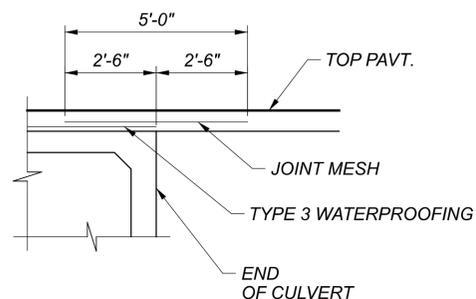
**POROUS BACKFILL WITH GEOTEXTILE FABRIC:**

2'-0" THICK SHALL BE PLACED BEHIND THE WINGWALLS ONLY AND SHALL EXTEND TO 12" BELOW THE EMBANKMENT SURFACE. GEOTEXTILE FABRIC SHALL BE PLACED BETWEEN THE POROUS BACKFILL AND REPLACED EXCAVATION ADJACENT TO THE STRUCTURE. IT SHALL TURN UNDER THE BOTTOM OF THE POROUS BACKFILL AND RETURN UP 6".

**ITEM SPECIAL - REINFORCED MESH FOR TRANSVERSE AND/OR LONGITUDINAL JOINTS AND CRACKS:**

THIS ITEM SHALL BE USED TO REINFORCE TRANSVERSE JOINTS. PLACE REINFORCING MESH ON PROPOSED SURFACE AS SHOWN IN THE DETAIL BELOW, 5' WIDE, ALONG THE ENTIRE LENGTH OF THE CULVERT ON BOTH SIDES. APPLY TACK COAT BENEATH REINFORCING MESH PER MANUFACTURER'S SPECIFICATIONS.

REINFORCING MATERIAL SHALL BE GLASGRID CG200 OR EQUIVALENT AND SHALL BE PLACED ACCORDING TO MANUFACTURER'S SPECIFICATIONS AND THIS NOTE. ALL MATERIALS, LABOR, EQUIPMENT, TOOLS, AND INCIDENTALS NEEDED TO COMPLETE THE WORK DESCRIBED ABOVE SHALL BE INCLUDED FOR PAYMENT IN THE UNIT PRICE BID FOR ITEM SPECIAL - REINFORCED MESH FOR TRANSVERSE AND/OR LONGITUDINAL JOINTS AND CRACKS.



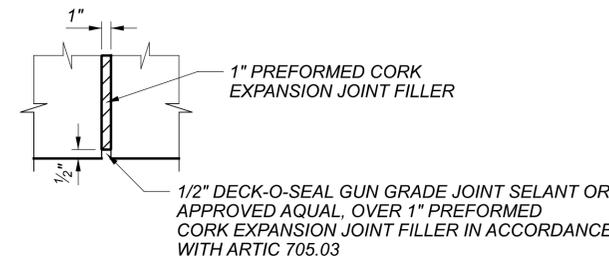
**ITEM 202 - PORTIONS OF STRUCTURE REMOVED, AS PER PLAN:**

THIS WORK CONSISTS OF SAW CUTTING AND REMOVAL OF PORTIONS OF THE EXISTING RETAINING WALLS AS NECESSARY TO CONSTRUCT THE PROPOSED STRUCTURE WINGWALLS. THE PROVISIONS OF 202 APPLY EXCEPT AS SPECIFIED BY THE FOLLOWING NOTES. PERFORM WORK CAREFULLY DURING WALL REMOVAL TO PROTECT PORTIONS OF THE RETAINING WALLS THAT ARE TO BE SALVAGED AND INCORPORATED INTO THE PROPOSED STRUCTURE. THE USE OF EXPLOSIVES, HEADACHE BALLS AND/OR HOE RAM TYPE OF EQUIPMENT IS PROHIBITED. SUBMIT CONSTRUCTION PLANS ACCORDING TO C&MS 501.05. INCLUDE ANY TEMPORARY SHORING OR SUPPORTS NECESSARY TO MAINTAIN THE EXISTING WALLS DURING CONSTRUCTION WITH THIS ITEM FOR PAYMENT.

ALL EXISTING RETAINING WALLS INDICATED IN THE PLANS AS "DO NOT DISTURB" THAT ARE DAMAGED DURING CONSTRUCTION SHALL BE RESTORED TO THEIR ORIGINAL CONDITION BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE PROJECT.

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

1" PEJF PLACED AT THE INTERFACE OF THE PROPOSED WINGWALLS AND EXISTING RETAINING WALLS 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 THAT ARE ABOVE GRADE 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

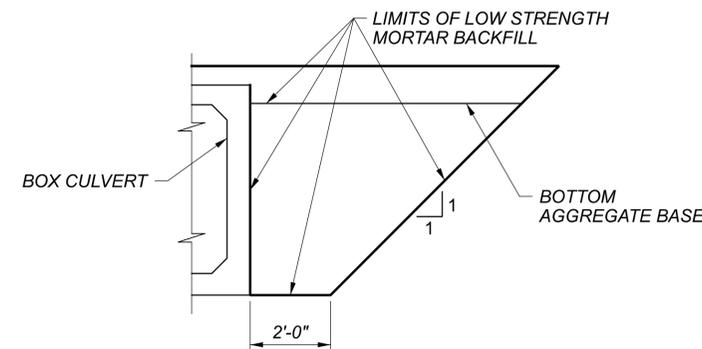
PAYMENT FOR THE ABOVE WORK SHALL BE MADE AT THE UNIT PRICE BID FOR ITEM 516 - 1" PREFORMED EXPANSION JOINT FILLER, AS PER PLAN AND SHALL INCLUDE ALL LABOR, EQUIPMENT, AND INCIDENTALS REQUIRED TO COMPLETE THE WORK DESCRIBED.

**ITEM 509 - EPOXY COATED REINFORCING STEEL, AS PER PLAN:**

IN ADDITION TO THE PROVISIONS OF ITEM 509, FIELD BEND AND/OR FIELD CUT THE REINFORCING STEEL DESIGNATED IN THE PLANS, AS NECESSARY, IN ORDER TO MAINTAIN THE REQUIRED CLEARANCES AND BAR SPACINGS. REPAIR ALL DAMAGE TO THE EPOXY COATING, AS A RESULT OF THIS WORK, ACCORDING TO C&MS 709.00.

**LOW STRENGTH MORTAR BACKFILL:**

PLACE LOW STRENGTH MORTAR BACKFILL AS SHOWN IN THE DETAIL BELOW FOR THE FULL LENGTH OF THE CULVERT ON BOTH SIDES. EXCAVATION REQUIRED FOR LOW STRENGTH MORTAR BACKFILL PLACEMENT IN EXCESS OF WHAT IS INCLUDED WITH ITEM 202 SHALL BE INCLUDED WITH ITEM 611 FOR PAYMENT.



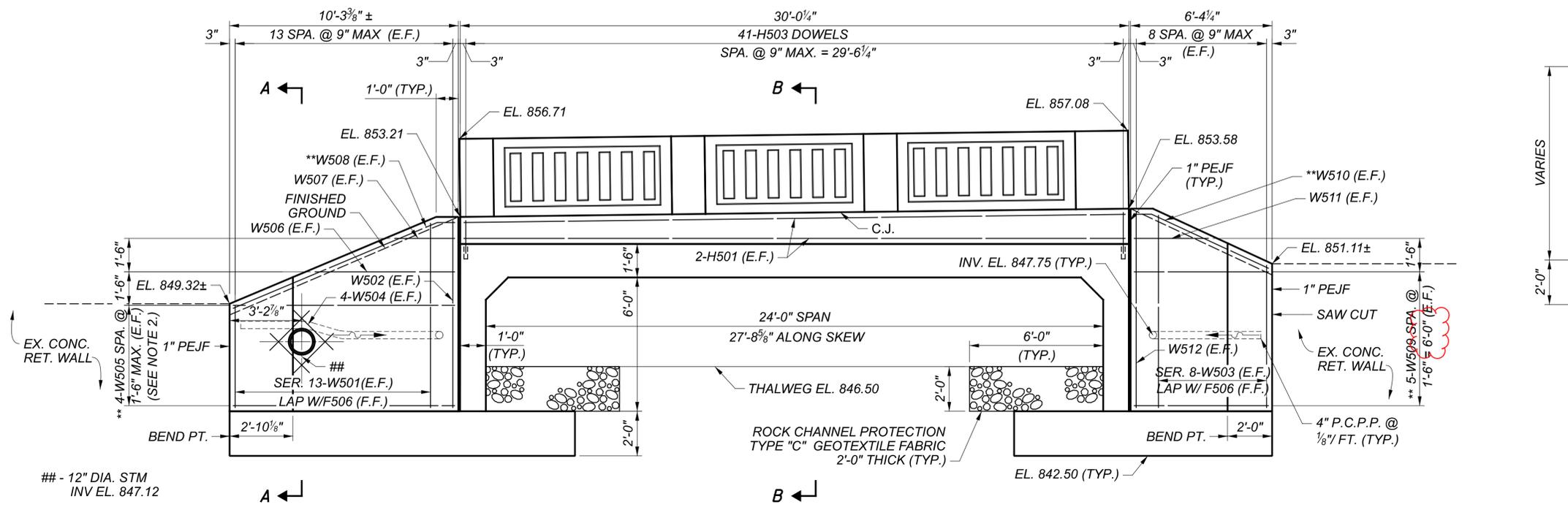
**ABBREVIATION LIST:**

- C.J. = CONSTRUCTION JOINT
- CLR. = CLEARANCE
- CONST. = CONSTRUCTION
- DIA. = DIAMETER
- EL. = ELEVATION
- E.F. = EACH FACE
- F.F. = FAR FACE
- INV. = INVERT
- N.F. = NEAR FACE
- P/C = PRECAST
- P.C.P.P. = PERFORATED CORRUGATED PLASTIC PIPE
- PEJF = PREFORMED EXPANSION JOINT FILLER
- TYP. = TYPICAL

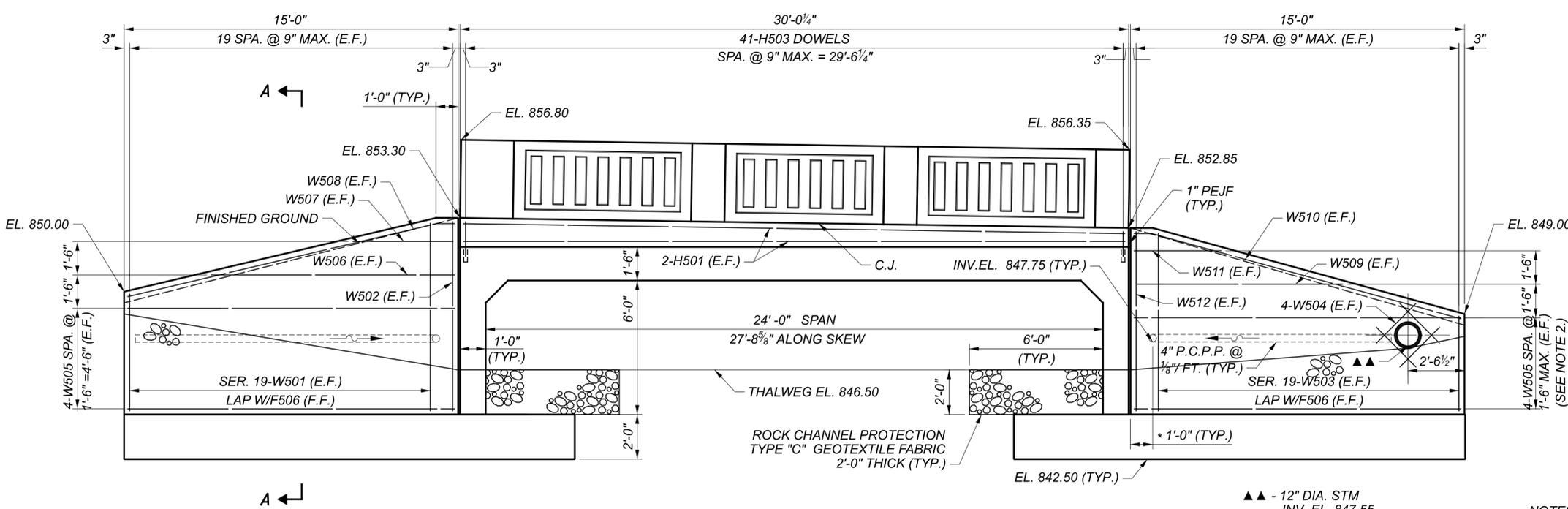
**ESTIMATED QUANTITIES**

BY: SJF DATE: 05/24/22  
CHECK: BMK DATE: 05/25/22

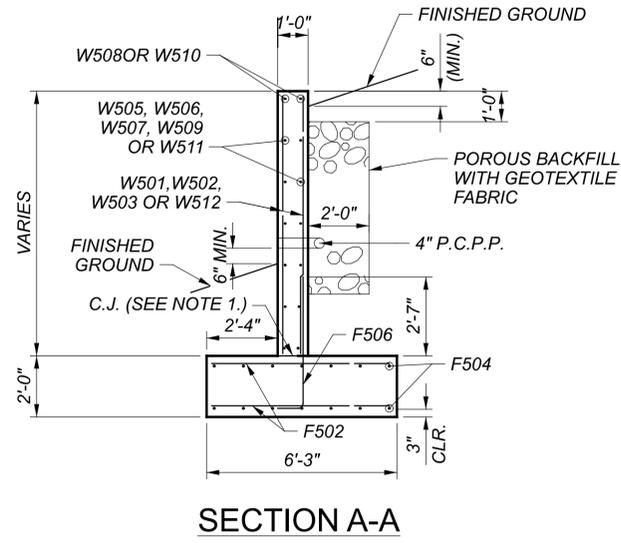
ITEM	ITEM EXT	TOTAL	UNIT	DESCRIPTION
202	11002	LS		STRUCTURE REMOVED, OVER 20 FOOT SPAN
202	11201	LS		PORTIONS OF STRUCTURE REMOVED, AS PER PLAN
202	23500	80	SY	WEARING COURSE REMOVED
503	11100	LS		COFFERDAMS AND EXCAVATION BRACING
503	21300	LS		UNCLASSIFIED EXCAVATION
509	10000	9,814	LB	EPOXY COATED REINFORCING STEEL
509	10001	222	LB	EPOXY COATED REINFORCING STEEL, AS PER PLAN
511	34448	12	CY	CLASS QC2 CONCRETE, BRIDGE DECK (PARAPET)
511	46010	13	CY	CLASS QC1 CONCRETE, RETAINING/WINGWALL NOT INCLUDING FOOTING
511	46510	84	CY	CLASS QC1 CONCRETE, FOOTING
511	46610	4	CY	CLASS QC1 CONCRETE, HEADWALL
512	10100	128	SY	SEALING OF CONCRETE SURFACES (EPOXY URETHANE)
512	33000	67	SY	TYPE 2 WATERPROOFING
512	33010	168	SY	TYPE 3 WATERPROOFING
516	13601	36	SF	1" PREFORMED EXPANSION JOINT FILLER, AS PER PLAN
518	21200	21	CY	POROUS BACKFILL WITH GEOTEXTILE FABRIC
518	39800	47	FT	4" PERFORATED CORRUGATED PLASTIC PIPE
601	32204	76	CY	ROCK CHANNEL PROTECTION, TYPE C WITH GEOTEXTILE FABRIC
611	70000	47	FT	CONDUIT, TYPE A, PRECAST REINFORCED CONCRETE THREE SIDED
				FLAT TOPPED CULVERT (24'-0" SPAN X 6'-2" RISE)
613	41200	140	CY	LOW STRENGTH MORTAR BACKFILL
SPECIAL	690E12050	48	SY	REINFORCED MESH FOR TRANSVERSE AND/OR LONGITUDINAL JOINTS AND CRACKS



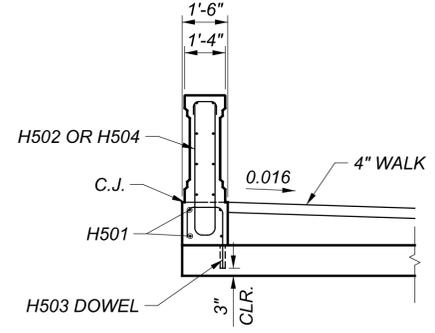
**INLET HEADWALL ELEVATION**  
(DIMENSIONS ALONG FRONT FACE)



**OUTLET HEADWALL ELEVATION**  
(DIMENSIONS ALONG FRONT FACE)



**SECTION A-A**



**SECTION B-B**

▲▲ - 12" DIA. STM  
 INV. EL. 847.55  
 \* MEASURED FROM CULVERT FACE  
 AT ALL LOCATIONS

- NOTES:
1. THE INTERFACE BETWEEN THE TOP OF THE FOOTING AND BASE OF THE WINGWALL STEM SHALL BE INTENTIONALLY ROUGHENED TO AN AMPLITUDE OF APPROXIMATELY 1/4" BY MEANS OF SERRATED TROWEL.
  2. SPACE LONGITUDINAL WINGWALL BARS AS NECESSARY TO PROVIDE 2" COVER AT STORM PIPE OPENING.

CULVERT HEADWALL DETAILS  
 BRIDGE NO. LIC-MOULL-03433  
 MOULL ST. OVER LOG POND RUN

SFN	4560427
DESIGN AGENCY	AMERICAN STRUCTUREPOINT INC.
DESIGNER/CHECKER	JMV / SJF
REVIEWER	CLB
PROJECT ID	111654
SUBSET	TOTAL
P.04	P.06
SHEET	TOTAL
P.25	P.43

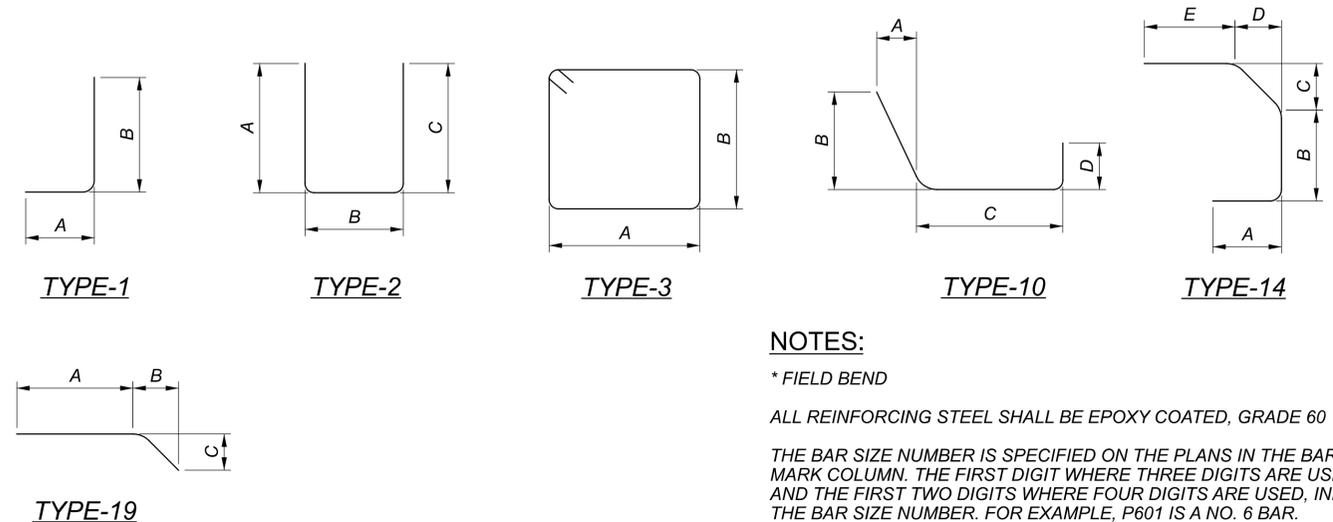
MARK	NUMBER		LENGTH	WEIGHT	TYPE	DIMENSIONS					
	TOTAL					A	B	C	D	E	R
<b>PARAPET/HEADWALL (INLET)</b>											
H401	8		5'-3"	28	3	1'-2"	1'-2"				
H402	8		2'-4"	12	2	0'-8"	1'-2"	0'-8"			
H403	8		3'-4"	18	14	0'-8"	0'-0"	1'-2"	9"	1'-7"	
H501	4		29'-6"	123	STR						
H502	33		8'-11"	307	2	4'-3"	0'-8"	4'-3"			
	1 SR		3'-10"					2'-2"			
H503	OF	TO		173	2	0'-9"	1'-2"	TO			1/8"
	41		4'-3"					2'-7"			
H504	14		9'-5"	138	2	4'-3"	1'-2"	4'-3"			
H505	33		3'-5"	118	2	1'-6"	0'-8"	1'-6"			
H506	16		10'-5"	174	STR						
H507	14		3'-11"	57	2	1'-6"	1'-2"	1'-6"			
H508	8		7'-8"	70	STR						
<b>SUB-TOTAL</b>				1218							

MARK	NUMBER		LENGTH	WEIGHT	TYPE	DIMENSIONS					
	TOTAL					A	B	C	D	E	R
<b>WINGWALLS (INLET)</b>											
	2 SR		4'-6"								
W501	OF	TO		172	STR						3 1/2"
	13		8'-2"								
W502	2		8'-3"	17	STR						
	2 SR		6'-4"								
W503	OF	TO		124	STR						3 7/8"
	8		8'-7"								
W504	8		2'-6"	21	STR						
W505	8		9'-11"	83	STR						
W506	2		6'-8"	14	STR						
W507	2		3'-5"	7	STR						
W508	2		10'-8"	22	STR						
W509	10		6'-0"	63	STR						
W510	2		6'-7"	14	STR						
W511	2		3'-4"	7	STR						
W512	2		8'-8"	18	STR						
<b>SUB-TOTAL</b>				562							

MARK	NUMBER		LENGTH	WEIGHT	TYPE	DIMENSIONS					
	TOTAL					A	B	C	D	E	R
<b>FOOTING</b>											
F501	278		8'-6"	2465	STR						
F502	76		5'-9"	456	STR						
F503	2		10'-1"	21	STR						
F504	28		16'-3"	475	STR						
F505	40		27'-9"	1158	STR						
F506	63		5'-1"	334	1	10"	4'-4"				
F507	40		29'-4"	1224	STR						
F508	2		9'-0"	19	STR						
<b>SUB-TOTAL</b>				6152							

MARK	NUMBER		LENGTH	WEIGHT	TYPE	DIMENSIONS					
	TOTAL					A	B	C	D	E	R
<b>PARAPET/HEADWALL (OUTLET)</b>											
H401	8		5'-3"	28	3	1'-2"	1'-2"				
H402	8		2'-4"	12	2	0'-8"	1'-2"	0'-8"			
H403	8		3'-4"	18	14	0'-8"	0'-0"	1'-2"	9"	1'-7"	
H501	4		29'-6"	123	STR						
H502	33		8'-5"	290	2	4'-0"	0'-8"	4'-0"			
	1 SR		3'-4"					1'-10"			
H503	OF	TO		151	2	0'-7"	1'-2"	TO			1/8"
	41		3'-9"					2'-3"			
H504	14		8'-11"	130	2	4'-0"	1'-2"	4'-0"			
H505	33		3'-5"	118	2	1'-6"	0'-8"	1'-6"			
H506	16		10'-5"	174	STR						
H507	14		3'-11"	57	2	1'-6"	1'-2"	1'-6"			
H508	8		7'-8"	70	STR						
<b>SUB-TOTAL</b>				1171							

MARK	NUMBER		LENGTH	WEIGHT	TYPE	DIMENSIONS					
	TOTAL					A	B	C	D	E	R
<b>WINGWALLS (OUTLET)</b>											
	2 SR		5'-3"								
W501	OF	TO		269	STR						2 1/8"
	19		8'-4"								
W502	2		8'-5"	18	STR						
	2 SR		4'-3"								
W503	OF	TO		241	STR						2 1/2"
	19		7'-11"								
W504	8		2'-6"	21	STR						
W505	16		14'-8"	245	STR						
W506	2		11'-0"	23	STR						
W507	2		4'-3"	9	STR						
W508	2		14'-11"	31	19	14'-2"	0'-9"	0'-2"			
W509	2		9'-7"	20	STR						
W510	2		15'-0"	31	19	14'-3"	0'-9"	0'-2"			
W511	2		3'-10"	8	STR						
W512	2		8'-0"	17	STR						
<b>SUB-TOTAL</b>				933							



**NOTES:**

\* FIELD BEND

ALL REINFORCING STEEL SHALL BE EPOXY COATED, GRADE 60

THE BAR SIZE NUMBER IS SPECIFIED ON THE PLANS IN THE BAR MARK COLUMN. THE FIRST DIGIT WHERE THREE DIGITS ARE USED, AND THE FIRST TWO DIGITS WHERE FOUR DIGITS ARE USED, INDICATES THE BAR SIZE NUMBER. FOR EXAMPLE, P601 IS A NO. 6 BAR. "R" INDICATES INSIDE RADIUS, UNLESS OTHERWISE NOTED. "STD" WRITTEN IN PLACE OF A DIMENSION INDICATES A STANDARD BEND AT THE END OF THE BAR.

**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, 2020 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:**

HL-93  
FUTURE WEARING SURFACE (FWS) OF 0.06 KSF

**DESIGN DATA:**

CONCRETE CLASS QC1 - COMPRESSIVE STRENGTH 4.0 KSI (FOOTINGS, HEADWALL, WINGWALLS)

REINFORCING STEEL - MINIMUM 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 C&MS SECTIONS 102.05 AND 105.02.

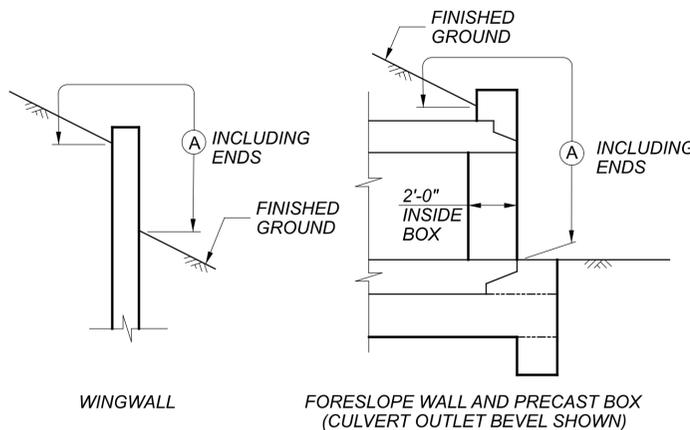
BASE CONTRACT BID PRICES UPON A RECOGNITION OF THE UNCERTAINTIES DESCRIBED ABOVE AND UPON A PREBID EXAMINATION OF THE EXISTING STRUCTURE. HOWEVER, THE DEPARTMENT WILL PAY FOR ALL PROJECT WORK BASED UPON ACTUAL DETAILS AND DIMENSIONS THAT HAVE BEEN VERIFIED IN THE FIELD.

**FOUNDATION BEARING RESISTANCE:**

WINGWALL FOOTINGS, AS DESIGNED, PRODUCE A MAXIMUM SERVICE LIMIT STATE BEARING PRESSURE OF 1.2 KIPS PER SQUARE FOOT AND A MAXIMUM STRENGTH LIMIT BEARING PRESSURE OF 1.7 KIPS PER SQUARE FOOT. THE FACTORED BEARING RESISTANCE IS 3.5 KIPS PER SQUARE FOOT.

**SEALING OF FORESLOPE WALL AND WINGWALLS:**

ALL EXPOSED FORESLOPE WALL AND WINGWALL CONCRETE SHALL BE SEALED WITH EPOXY-URETHANE SEALER. THE LIMITS SHALL BE AS SHOWN IN THE DIAGRAMS BELOW. PAYMENT FOR THE EPOXY-URETHANE SEALER SHALL BE PER ITEM 512 - SEALING OF CONCRETE SURFACES (EPOXY-URETHANE).



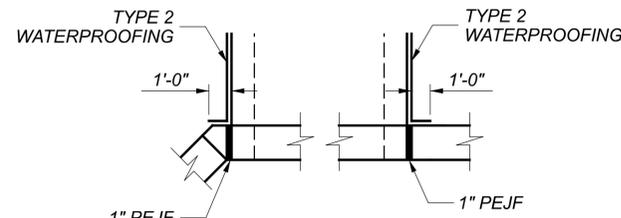
LIMITS OF ITEM 512-SEALING CONCRETE SURFACES  
A - SEAL ENTIRE CONCRETE SURFACE AREA

**WATERPROOFING:**

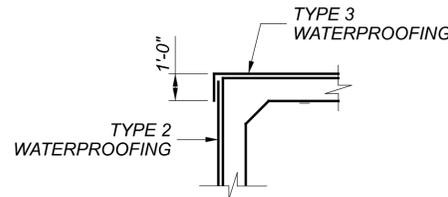
TYPE 2 WATERPROOFING, PER CMS 512.09 AND 711.25, SHALL EXTEND VERTICALLY DOWN THE ENTIRE SIDES OF THE PRECAST CULVERT SECTIONS FOR ALL PORTIONS OF THE CULVERT WHICH SHALL BE IN CONTACT WITH THE BACKFILL. PAYMENT FOR THE MEMBRANE WATERPROOFING SHALL BE AT THE CONTRACT PRICE BID PER SQUARE YARD FOR ITEM 512 - TYPE 2 WATERPROOFING.

TYPE 3 WATERPROOFING, PER CMS 512.10 AND 711.29 SHALL BE APPLIED TO THE ENTIRE TOP SURFACE OF THE PRECAST CULVERT SECTIONS AND SHALL EXTEND ONE FOOT VERTICALLY DOWN THE SIDES FOR ALL PORTIONS OF THE CULVERT WHICH SHALL BE IN CONTACT WITH THE BACKFILL. PAYMENT FOR THE MEMBRANE WATERPROOFING SHALL BE AT THE CONTRACT PRICE BID PER SQUARE YARD FOR ITEM 512 - TYPE 3 WATERPROOFING.

**WATERPROOFING DETAILS**



PLAN VIEW



SECTION VIEW

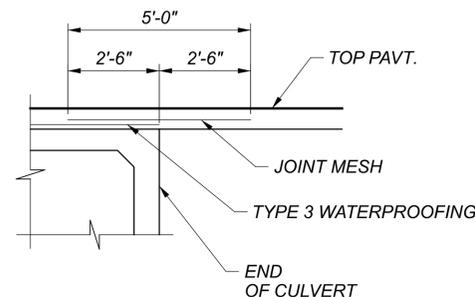
**POROUS BACKFILL WITH GEOTEXTILE FABRIC:**

2'-0" THICK SHALL BE PLACED BEHIND THE WINGWALLS ONLY AND SHALL EXTEND TO 12" BELOW THE EMBANKMENT SURFACE. GEOTEXTILE FABRIC SHALL BE PLACED BETWEEN THE POROUS BACKFILL AND REPLACED EXCAVATION ADJACENT TO THE STRUCTURE. IT SHALL TURN UNDER THE BOTTOM OF THE POROUS BACKFILL AND RETURN UP 6".

**ITEM SPECIAL - REINFORCED MESH FOR TRANSVERSE AND/OR LONGITUDINAL JOINTS AND CRACKS:**

THIS ITEM SHALL BE USED TO REINFORCE TRANSVERSE JOINTS. PLACE REINFORCING MESH ON PROPOSED SURFACE AS SHOWN IN THE DETAIL BELOW, 5' WIDE, ALONG THE ENTIRE LENGTH OF THE CULVERT ON BOTH SIDES. APPLY TACK COAT BENEATH REINFORCING MESH PER MANUFACTURER'S SPECIFICATIONS.

REINFORCING MATERIAL SHALL BE GLASGRID CG200 OR EQUIVALENT AND SHALL BE PLACED ACCORDING TO MANUFACTURER'S SPECIFICATIONS AND THIS NOTE. ALL MATERIALS, LABOR, EQUIPMENT, TOOLS, AND INCIDENTALS NEEDED TO COMPLETE THE WORK DESCRIBED ABOVE SHALL BE INCLUDED FOR PAYMENT IN THE UNIT PRICE BID FOR ITEM SPECIAL - REINFORCED MESH FOR TRANSVERSE AND/OR LONGITUDINAL JOINTS AND CRACKS.



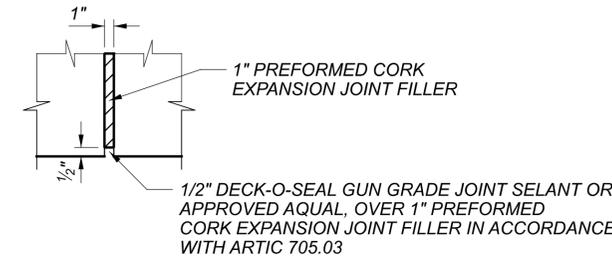
**ITEM 202 - PORTIONS OF STRUCTURE REMOVED, AS PER PLAN:**

THIS WORK CONSISTS OF SAW CUTTING AND REMOVAL OF PORTIONS OF THE EXISTING RETAINING WALLS AS NECESSARY TO CONSTRUCT THE PROPOSED STRUCTURE WINGWALLS. THE PROVISIONS OF 202 APPLY EXCEPT AS SPECIFIED BY THE FOLLOWING NOTES. PERFORM WORK CAREFULLY DURING WALL REMOVAL TO PROTECT PORTIONS OF THE RETAINING WALLS THAT ARE TO BE SALVAGED AND INCORPORATED INTO THE PROPOSED STRUCTURE. THE USE OF EXPLOSIVES, HEADACHE BALLS AND/OR HOE RAM TYPE OF EQUIPMENT IS PROHIBITED. SUBMIT CONSTRUCTION PLANS ACCORDING TO C&MS 501.05. INCLUDE ANY TEMPORARY SHORING OR SUPPORTS NECESSARY TO MAINTAIN THE EXISTING WALLS DURING CONSTRUCTION WITH THIS ITEM FOR PAYMENT.

ALL EXISTING RETAINING WALLS INDICATED IN THE PLANS AS "DO NOT DISTURB" THAT ARE DAMAGED DURING CONSTRUCTION SHALL BE RESTORED TO THEIR ORIGINAL CONDITION BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE PROJECT.

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

1" PEJF PLACED AT THE INTERFACE OF THE PROPOSED WINGWALLS AND EXISTING RETAINING WALLS 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 THAT ARE ABOVE GRADE 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

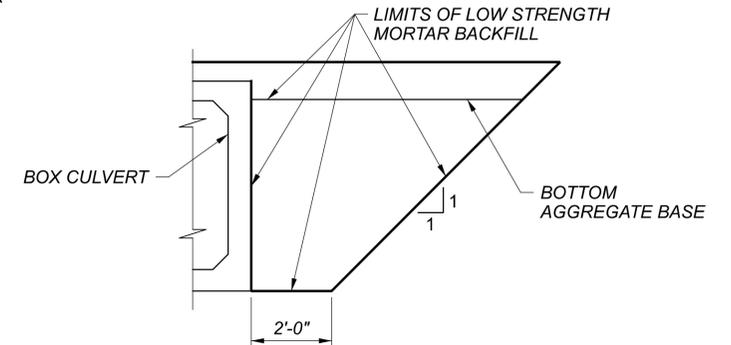
PAYMENT FOR THE ABOVE WORK SHALL BE MADE AT THE UNIT PRICE BID FOR ITEM 516 - 1" PREFORMED EXPANSION JOINT FILLER, AS PER PLAN AND SHALL INCLUDE ALL LABOR, EQUIPMENT, AND INCIDENTALS REQUIRED TO COMPLETE THE WORK DESCRIBED.

**ITEM 509 - EPOXY COATED REINFORCING STEEL, AS PER PLAN:**

IN ADDITION TO THE PROVISIONS OF ITEM 509, FIELD BEND AND/OR FIELD CUT THE REINFORCING STEEL DESIGNATED IN THE PLANS, AS NECESSARY, IN ORDER TO MAINTAIN THE REQUIRED CLEARANCES AND BAR SPACINGS. REPAIR ALL DAMAGE TO THE EPOXY COATING, AS A RESULT OF THIS WORK, ACCORDING TO C&MS 709.00.

**LOW STRENGTH MORTAR BACKFILL:**

PLACE LOW STRENGTH MORTAR BACKFILL AS SHOWN IN THE DETAIL BELOW FOR THE FULL LENGTH OF THE CULVERT ON BOTH SIDES. EXCAVATION REQUIRED FOR LOW STRENGTH MORTAR BACKFILL PLACEMENT IN EXCESS OF WHAT IS INCLUDED WITH ITEM 202 SHALL BE INCLUDED WITH ITEM 611 FOR PAYMENT.



**ABBREVIATION LIST:**

- C.J. = CONSTRUCTION JOINT
- CLR. = CLEARANCE
- CONST. = CONSTRUCTION
- DIA. = DIAMETER
- EL. = ELEVATION
- E.F. = EACH FACE
- F.F. = FAR FACE
- INV. = INVERT
- N.F. = NEAR FACE
- P/C = PRECAST
- P.C.P.P. = PERFORATED CORRUGATED PLASTIC PIPE
- PEJF = PREFORMED EXPANSION JOINT FILLER
- TYP. = TYPICAL

**ESTIMATED QUANTITIES**

BY: SJF DATE: 05/24/22  
CHECK: BMK DATE: 05/24/22

ITEM	ITEM EXT	TOTAL	UNIT	DESCRIPTION
202	11002	LS		STRUCTURE REMOVED, OVER 20 FOOT SPAN
202	11201	LS		PORTIONS OF STRUCTURE REMOVED, AS PER PLAN
202	23500	66	SY	WEARING COURSE REMOVED
503	11100	LS		COFFERDAMS AND EXCAVATION BRACING
503	21300	LS		UNCLASSIFIED EXCAVATION
509	10000	6,755	LB	EPOXY COATED REINFORCING STEEL
509	10001	157	LB	EPOXY COATED REINFORCING STEEL, AS PER PLAN
511	34448	9	CY	CLASS QC2 CONCRETE, BRIDGE DECK (PARAPET)
511	46010	12	CY	CLASS QC1 CONCRETE, RETAINING/WINGWALL NOT INCLUDING FOOTING
511	46510	41	CY	CLASS QC1 CONCRETE, FOOTING
511	46610	4	CY	CLASS QC1 CONCRETE, HEADWALL
512	10100	119	SY	SEALING OF CONCRETE SURFACES (EPOXY URETHANE)
512	33000	66	SY	TYPE 2 WATERPROOFING
512	33010	107	SY	TYPE 3 WATERPROOFING
516	13601	34	SF	1" PREFORMED EXPANSION JOINT FILLER, AS PER PLAN
518	21200	17	CY	POROUS BACKFILL WITH GEOTEXTILE FABRIC
518	39800	38	FT	4" PERFORATED CORRUGATED PLASTIC PIPE
601	32204	38	CY	ROCK CHANNEL PROTECTION, TYPE C WITH GEOTEXTILE FABRIC
611	96488	40	FT	20' X 5' CONDUIT, TYPE A, 706.05
613	41200	119	CY	LOW STRENGTH MORTAR BACKFILL
SPECIAL	690E12050	42	SY	REINFORCED MESH FOR TRANSVERSE AND/OR LONGITUDINAL JOINTS AND CRACKS

MARK	NUMBER		LENGTH	WEIGHT	TYPE	DIMENSIONS					
	TOTAL					A	B	C	D	E	R
<b>PARAPET/HEADWALL (INLET)</b>											
H401	12		5'-2"	41	3	1'-2"	1'-2"				
H501	4		21'-6"	90	STR						
H502	24		9'-1"	227	2	4'-4"	0'-8"	4'-4"			
H503	30		3'-6"	110	2	0'-10"	1'-2"	1'-9"			
H504	9		9'-7"	90	2	4'-4"	1'-2"	4'-4"			
H505	24		3'-5"	86	2	1'-6"	0'-8"	1'-6"			
H506	8		9'-9"	82	STR						
H507	9		3'-11"	37	2	1'-6"	1'-2"	1'-6"			
H508	8		11'-3"	94	STR						
<b>SUB-TOTAL</b>				857							

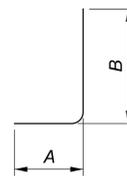
MARK	NUMBER		LENGTH	WEIGHT	TYPE	DIMENSIONS					
	TOTAL					A	B	C	D	E	R
<b>FOOTING (INLET)</b>											
F501	35		7'-9"	283	2	3'-6"	1'-0"	3'-6"			
F502	82		5'-9"	491	STR						
F503	3		21'-6"	67	STR						
F504	14		4'-3"	62	1	2'-2"	2'-3"				
F505	22		4'-7"	105	1	10"	3'-10"				
F506	16		7'-7"	127	STR						
F601	4		11'-5"	69	STR						
F602	4		15'-5"	93	STR						
F603	4		8'-0"	48	STR						
F604	10		13'-3"	199	STR						
F605	10		27'-7"	414	STR						
F606	12		8'-3"	149	STR						
<b>SUB-TOTAL</b>				2107							

MARK	NUMBER		LENGTH	WEIGHT	TYPE	DIMENSIONS					
	TOTAL					A	B	C	D	E	R
<b>WINGWALLS (INLET)</b>											
W501	8		7'-10"	65	STR						
	2 SR		5'-0"								
W502	OF		TO	92	STR						5 1/2"
	7		7'-8"								
* W503	8		7'-4"	31	STR						
* W504	2		5'-0"	11	STR						
* W505	2		1'-9"	4	STR						
* W506	2		7'-2"	15	STR						
W507	8		11'-8"	170	STR						
	2 SR		6'-11"								
W508	OF		TO	167	STR						7/8"
	11		7'-8"								
W509	2		11'-8"	24	19	10'-4"	1'-3 1/2"	1 1/2			
<b>SUB-TOTAL</b>				579							

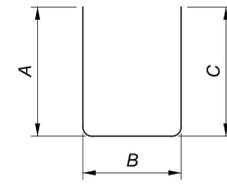
MARK	NUMBER		LENGTH	WEIGHT	TYPE	DIMENSIONS					
	TOTAL					A	B	C	D	E	R
<b>PARAPET/HEADWALL (OUTLET)</b>											
H401	12		5'-2"	41	3	1'-2"	1'-2"				
H501	4		21'-6"	90	STR						
H502	24		9'-1"	227	2	4'-4"	0'-8"	4'-4"			
H503	30		4'-0"	125	2	1'-1"	1'-2"	2'-0"			
H504	9		9'-7"	90	2	4'-4"	1'-2"	4'-4"			
H505	24		3'-5"	86	2	1'-6"	0'-8"	1'-6"			
H506	8		9'-9"	82	STR						
H507	9		3'-11"	37	2	1'-6"	1'-2"	1'-6"			
H508	8		11'-3"	94	STR						
<b>SUB-TOTAL</b>				872							

MARK	NUMBER		LENGTH	WEIGHT	TYPE	DIMENSIONS					
	TOTAL					A	B	C	D	E	R
<b>FOOTING (OUTLET)</b>											
F501	35		7'-9"	283	2	3'-6"	1'-0"	3'-6"			
F502	96		5'-9"	576	STR						
F503	3		21'-6"	67	STR						
F504	15		4'-3"	66	1	2'-2"	2'-3"				
F505	20		4'-7"	96	1	10"	3'-10"				
F601	4		11'-9"	71	STR						
F602	4		21'-2"	127	STR						
F603	4		3'-7"	22	STR						
	2 SR		11'-3"								
F604	OF	TO		202	STR						1'-1 1/4"
	5		15'-8"								
F605	10		28'-0"	421	STR						
	2 SR		2'-8"								
F606	OF	TO		88	STR						1'-7"
	5		9'-0"								
<b>SUB-TOTAL</b>				2019							

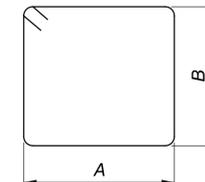
MARK	NUMBER		LENGTH	WEIGHT	TYPE	DIMENSIONS					
	TOTAL					A	B	C	D	E	R
<b>WINGWALLS (OUTLET)</b>											
	2 SR		4'-10"								
W501	OF	TO		44	STR						3 3/8"
	4		5'-8"								
W502	8		3'-10"	32	STR						
	2 SR		6'-10"								
W503	OF	TO		76	STR						3 1/4"
	5		7'-11"								
W504	2		8'-0"	17	STR						
	2 SR		6'-6"								
W505	OF	TO		105	STR						2 7/8"
	7		7'-11"								
W506	2		12'-6"	26	STR						
W507	2		13'-2"	27	STR						
W508	2		5'-9"	12	STR						
W509	2		6'-5"	13	STR						
W510	4		2'-9"	11	STR						
W511	1		7'-9"	8	STR						
W512	1		8'-5"	9	STR						
W513	1		2'-1"	2	STR						
W514	1		2'-7"	3	STR						
W515	1		12'-4"	13	STR						
W516	1		13'-0"	14	19	12'-4"	0'-8"	0'-2"			
W517	5		4'-6"	23	STR						
W518	5		5'-5"	28	STR						
W519	1		1'-5"	2	STR						
W520	1		2'-1"	2	STR						
W521	1		4'-4"	5	STR						
W522	1		5'-5"	6	19	4'-11"	0'-8"	0'-2"			
<b>SUB-TOTAL</b>				478							



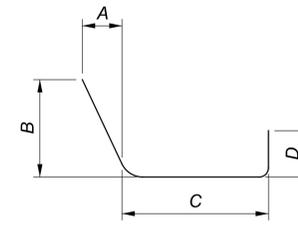
TYPE-1



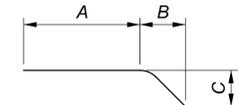
TYPE-2



TYPE-3



TYPE-10



TYPE-19

**NOTES:**

\* FIELD BEND OR CUT

ALL REINFORCING STEEL SHALL BE EPOXY COATED, GRADE 60

THE BAR SIZE NUMBER IS SPECIFIED ON THE PLANS IN THE BAR MARK COLUMN. THE FIRST DIGIT WHERE THREE DIGITS ARE USED, AND THE FIRST TWO DIGITS WHERE FOUR DIGITS ARE USED, INDICATES THE BAR SIZE NUMBER. FOR EXAMPLE, P601 IS A NO. 6 BAR. "R" INDICATES INSIDE RADIUS, UNLESS OTHERWISE NOTED. "STD" WRITTEN IN PLACE OF A DIMENSION INDICATES A STANDARD BEND AT THE END OF THE BAR.

SFN	4560427
DESIGN AGENCY	STRUCTUREPOINT INC.
DESIGNER	JMV
CHECKER	SJF
REVIEWER	CLB
PROJECT ID	4560427
SUBSET	P.07
TOTAL	P.07
SHEET	P.34
TOTAL	P.43