

UTILITIES

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

ELECTRIC
OHIO EDISON
NATALIE CAMP
6326 LAKE AVENUE
ELYRIA, OHIO 44035
NCAMP@FIRSTENERGYCORP.COM
440-241-9890

WATER/SANITARY
CITY OF LORAIN
ENGINEERING DEPARTMENT
200 W ERIE AVENUE 4TH FLOOR
LORIAN, OHIO 44052
VERONICA NEWSOME
440-204-2003
VERONICA_NEWSOME@CITYOFLORAIN.ORG

GAS
COLUMBIA GAS OF OHIO
3101 N. RIDGE ROAD EAST
LORAIN, OHIO 44055
ISAAC LOHR
216-390-2215
ILOHR@NISOURCE.COM

TELECOMMUNICATIONS
LUMEN
5998 SCOTCH PINE DRIVE
MILFORD, OHIO 45150
ED NICHOLS
706-202-2261
ED.NICHOLS@LUMEN.COM
RELOCATIONS@LUMEN.COM

SURVEYING PARAMETERS

PRIMARY PROJECT CONTROL MONUMENTS GOVERN ALL POSITIONING ON ODOT PROJECTS. SEE BELOW FOR PROJECT CONTROL INFORMATION.

USE THE FOLLOWING PROJECT CONTROL, VERTICAL POSITIONING, AND HORIZONTAL POSITIONING PARAMETERS FOR ALL SURVEYING:

PROJECT CONTROL

VERTICAL POSITIONING

ORTHOMETRIC HEIGHT DATUM: NAVD88
GEOID: GEOID 18

HORIZONTAL POSITIONING

REFERENCE FRAME: NAD83 (2011)
ELLIPSOID: GRS80
COORDINATE SYSTEM: OHIO STATE PLANE, NORTH ZONE
COMBINED SCALE FACTOR: 1.00006192
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.

SURVEYING PARAMETERS (CONTINUED)

CONTROL POINTS
(ALL LOCATED FROM CL SR 611 WB)

CP1, IRON PIN
STA. 21+78.66, 184.47' RT
ELEV. 586.15

GRID	GROUND
NORTHING: 648719.5788	648759.7475
EASTING: 2044460.7074	2044587.3004

CP2, IRON PIN
STA. 24+11.61, 15.33' LT
ELEV. 600.15

GRID	GROUND
NORTHING: 648978.2880	649018.4727
EASTING: 2044625.8010	2044752.4042

CP3, IRON PIN
STA. 19+06.42, 17.64' RT
ELEV. 602.03

GRID	GROUND
NORTHING: 648800.4146	648840.5883
EASTING: 2044151.8366	2044278.4105

CP4, IRON PIN
STA. 24+30.23, 201.66' LT.
ELEV. 585.32

GRID	GROUND
NORTHING: 649161.9786	649202.1747
EASTING: 2044589.6752	2044716.2762

ODOT CONSTRUCTION AND MATERIAL SPECIFICATION ITEM 623 WILL GOVERN CONSTRUCTION SURVEYING ACTIVITY.

THE FOLLOWING MONUMENT VERIFICATION REPORT(S) WILL BE REQUIRED:
ITEM 623.04A - PRECONSTRUCTION MONUMENT VERIFICATION AND REPORT - [LUMP SUM CARRIED TO GEN SUM]

BENCHING OF FOUNDATION SLOPES

ALTHOUGH CROSS-SECTIONS INDICATE SPECIFIC DIMENSIONS FOR PROPOSED BENCHING OF THE EMBANKMENT FOUNDATIONS IN CERTAIN AREAS, NO WAIVER OF THE SPECIFICATIONS IS INTENDED. BENCH ALL OTHER SLOPED EMBANKMENT AREAS AS SET FORTH IN SECTION 203.05 OF THE CONSTRUCTION AND MATERIAL SPECIFICATIONS (C&MS). NO ADDITIONAL PAYMENT WILL BE MADE FOR BENCHING REQUIRED UNDER THE PROVISIONS OF SECTION 203.05.

SEEDING AND MULCHING

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

ITEM 659, SOIL ANALYSIS TEST	2 EA.
ITEM 659, TOPSOIL	33 CU. YD.
ITEM 659, SEEDING AND MULCHING, CLASS 2	283 SQ. YD.
ITEM 659, REPAIR SEEDING AND MULCHING	10 SQ. YD.
ITEM 659, INTER-SEEDING	10 SQ. YD.
ITEM 659, COMMERCIAL FERTILIZER	0.05 TON
ITEM 659, LIME	0.07 ACRES
ITEM 659, WATER	1.6 M. GAL.

SEEDING AND MULCHING SHALL BE APPLIED TO ALL AREAS OF EXPOSED SOIL BETWEEN THE RIGHT-OF-WAY LINES, AND WITHIN THE CONSTRUCTION LIMITS FOR AREAS OUTSIDE THE RIGHT-OF-WAY LINES COVERED BY WORK AGREEMENT OR SLOPE EASEMENT. QUANTITY CALCULATIONS FOR SEEDING AND MULCHING ARE BASED ON LIMITS IDENTIFIED AS NECESSARY IN THE CROSS-SECTIONS. ANY ADDITIONAL AREAS OUTSIDE OF THE AREAS IDENTIFIED IN THE CROSS-SECTIONS THAT ARE DISTURBED BY THE CONTRACTOR TO FACILITATE CONSTRUCTION MUST BE RESTORED IN ACCORDANCE WITH C&MS 107.10 AND CONSIDERED INCIDENTAL TO THE WORK. NO ADDITIONAL COMPENSATION WILL BE MADE FOR THESE AREAS.

ITEM 442 - ASPHALT CONCRETE SURFACE COURSE, 9.5 MM, TYPE A (449), AS PER PLAN

ALL OPEN TRANSVERSE JOINTS SHALL BE TAPERED TO MEET EXISTING PAVEMENT BEFORE INTRODUCING TRAFFIC. A "BUMP" SIGN (W8-1-36) SHALL BE ERECTED ON EACH SIDE OF TRANSVERSE JOINTS LEFT OPEN OVER NIGHT, INCLUDING A SPEED ADVISORY SIGN.THESE SIGNS SHALL BE REMOVED IMMEDIATELY AFTER JOINT HAS BEEN CLOSED. PLACEMENT OF SIGNS SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM 614 MAINTAINING TRAFFIC.

CARE SHALL BE TAKEN TO MATCH EXISTING PAVEMENT ELEVATIONS AT EXISTING PAVED BERMS, DRIVES, INTERSECTIONS, ETC.

ITEM 442 - ASPHALT CONCRETE SURFACE COURSE, 9.5 MM, TYPE A (449), AS PER PLAN (CONTD.)

REQUIREMENTS OF 442 APPLY EXCEPT AS FOLLOWS:
MIX DESIGN: FOR Ndes USE 50 GYRATIONS, FOR Nmax USE 75 GYRATIONS. CHOOSE OPTIMUM BINDER CONTENT AT DESIGN AIR VOIDS OF 3.5%. MINIMUM TOTAL PG BINDER CONTENT IS 6.3 PERCENT. MINIMUM VIRGIN PG BINDER CONTENT IS 5.2 PERCENT. USE A PG 64-22 BINDER.
WHEN AN AGGREGATE SOURCE IS SPECIALLY DESIGNATED WITH AN SR ON THE AGGREGATE GRAVITY LIST DO NOT USE THE AGGREGATE EXCEPT AS ALLOWED FOR MEDIUM TRAFFIC IN THE GUIDELINES FOR MAINTAINING ADEQUATE PAVEMENT FRICTION IN SURFACE PAVEMENT.

ITEM 442 - ASPHALT CONCRETE INTERMEDIATE COURSE, 12.5MM, TYPE A (449), AS PER PLAN

ALL OPEN TRANSVERSE JOINTS SHALL BE TAPERED TO MEET EXISTING PAVEMENT BEFORE INTRODUCING TRAFFIC. A "BUMP" SIGN (W8-1-36) SHALL BE ERECTED ON EACH SIDE OF TRANSVERSE JOINTS LEFT OPEN OVER NIGHT, INCLUDING A SPEED ADVISORY SIGN. THESE SIGNS SHALL BE REMOVED IMMEDIATELY AFTER JOINT HAS BEEN CLOSED. PLACEMENT OF SIGNS SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM 614 MAINTAINING TRAFFIC.

REQUIREMENTS OF 442 APPLY EXCEPT AS FOLLOWS:
MIX DESIGN: FOR Ndes USE 50 GYRATIONS, FOR Nmax USE 75 GYRATIONS. CHOOSE OPTIMUM BINDER CONTENT AT DESIGN AIR VOIDS OF 3.5%. MINIMUM TOTAL PG BINDER CONTENT IS 5.6 PERCENT. MINIMUM VIRGIN PG BINDER CONTENT IS 3.8 PERCENT. PER SPECIFICATIONS, USE A PG 64-22 BINDER WHEN 25% AND LESS RAP IS USED. USE A PG 64-28 BINDER WHEN MORE THAN 25% RAP IS USED.

APPLY 703.05 FOR COARSE AND FINE AGGREGATE EXCEPT GRADATION FOR FINE AGGREGATE DOES NOT APPLY.

ENVIRONMENTAL COMMITMENTS

THE CONTRACTOR MUST SUBMIT THE OEPA DEMOLITION/RENOVATION FORM TO THE OEPA WITHIN 10 BUSINESS DAYS PRIOR TO DEMOLITION.

ODOT SHALL COMPLETE ALL THE NECESSARY FLOODPLAIN COORDINATION PRIOR TO THE START OF CONSTRUCTION.

ODOT WILL OBTAIN AND ADHERE TO ALL APPROPRIATE WATERWAY PERMITS PRIOR TO ANY WORK BELOW THE ORDINARY HIGH-WATER MARK OF ANY WATERWAY AND ALL SPECIAL PROVISIONS FOR WATERWAY PERMITS WILL BE INCLUDED IN THE PROJECT PLANS.

THE PROJECT IS LOCATED WITHIN THE KNOWN HABITAT RANGES OF THE FEDERALLY ENDANGERED NORTHERN LONG-EARED BAT, INDIANA BAT, TRICOLORED BAT AND THE STATE ENDANGERED LITTLE BROWN. NO TREES SHALL BE REMOVED UNDER THIS PROJECT FROM APRIL 1 THROUGH SEPTEMBER 30. ALL NECESSARY TREE REMOVAL SHALL OCCUR FROM OCTOBER 1 THROUGH MARCH 31. THIS REQUIREMENT IS NECESSARY TO AVOID AND MINIMIZE IMPACTS TO THESE SPECIES AS REQUIRED BY THE ENDANGERED SPECIES ACT AND ORC 1531.25. 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.

AN OHIO GROUP 1 AND 3 STREAMS PERMITTED MALACOLOGIST MUST COMPLETE A MUSSEL SALVAGE AND RELOCATION IN ACCORDANCE WITH THE MOST RECENT VERSION OF THE OHIO MUSSEL SURVEY PROTOCOL PRIOR TO THE INITIATION OF CONSTRUCTION ACTIVITIES BELOW THE ORDINARY HIGH-WATER MARK. THE PERMITTED MALACOLOGIST WILL SUBMIT THE SALVAGE AND RELOCATION WORK PLAN TO ODNR FOR REVIEW AND APPROVAL PRIOR TO ANY SURVEY WORK. THE RESULTS OF THE MUSSEL SURVEY AND/OR SALVAGE WORK MUST BE PROVIDED TO THE ODOT DISTRICT ENVIRONMENTAL COORDINATOR LEVI WINGLER, Levi.Wingler@dot.ohio.gov, 419-207-7171 FOR COORDINATION WITH ODNR. THE CONTRACTOR CANNOT PERFORM ANY WORK BELOW ORDINARY HIGH-WATER MARK UNTIL THE MUSSEL SALVAGE AND RELOCATION WORK HAS BEEN COMPLETED AND APPROVAL HAS BEEN RECEIVED FROM ODNR.

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.

ROUNDING

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

CLEARING AND GRUBBING

ALTHOUGH THERE ARE NO TREES OR STUMPS SPECIFICALLY MARKED FOR REMOVAL WITHING 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.

CONNECTION BETWEEN EXISTING AND PROPOSED GUARDRAIL

WHEN IT IS NECESSARY TO SPLICE PROPOSED GUARDRAIL TO EXISTING GUARDRAIL, ONLY THE EXISTING GUARDRAIL SHALL BE CUT, DRILLED, OR PUNCHED. THE CONNECTION SHALL BE MADE USING A W-BEAM, BEAM SPLICE AS SHOWN IN AASHTO M 180-12, EXCEPT THE BEAM WASHERS ARE NOT TO BE USED. PAYMENT SHALL BE INCLUDED IN THE CONTRACT PRICE FOR THE RESPECTIVE GUARDRAIL ITEMS.

ROUTINE MAINTENANCE

BETWEEN THE TIME THAT BIDS ARE TAKEN AND THE START OF THE CONSTRUCTION, THE MAINTAINING AGENCY MAY ENTER UPON THE PROJECT AND PERFORM ROUTINE MAINTENANCE SUCH AS CRACK SEALING, PATCHING, AND BERM AND SHOULDER REPAIR. THE EFFECTS, IF ANY, OF THE PERFORMANCES OF ROUTINE MAINTENANCE SHALL BE CONSIDERED AS INHERENT IN WORK OF THE CHARACTER PROVIDED FOR IN THE PLAN AND THE RESULTING CONDITIONS SHALL NOT BE CONSIDERED AS DIFFERING MATERIALLY FROM THOSE EXISTING AT THE TIME BIDS WERE TAKEN.

AIRWAY/HIGHWAY CLEARANCE FOR AIRPORTS AND HELIPORTS

THIS PROJECT HAS BEEN IDENTIFIED AS BEING WITHIN THE INFLUENCE AREA OF A PUBLIC USE AIRPORT OR HELIPORT. NO TEMPORARY STRUCTURES OR CONSTRUCTION EQUIPMENT AT MAXIMUM OPERATING HEIGHT SHALL EXCEED A HEIGHT OF 350 FT. IF ANY TEMPORARY STRUCTURES OR CONSTRUCTION EQUIPMENT WILL EXCEED THIS HEIGHT, FURTHER COORDINATION WITH THE FEDERAL AVIATION ADMINISTRATION (FAA), AND ODOT OFFICE OF AVIATION, WILL BE NECESSARY PRIOR TO ERECTING SUCH TEMPORARY STRUCTURES OR OPERATING SUCH EQUIPMENT ON THE PROJECT. THE CONTRACTOR WILL BE REQUIRED TO SUBMIT FORM 7460-1 TO THE FAA. NOTIFY THE ODOT OFFICE OF AVIATION WHEN SUBMITTING FAA FORM 7460-1.

NO TEMPORARY STRUCTURES OR CONSTRUCTION EQUIPMENT SHALL EXCEED THE PERMISSIBLE HEIGHT, UNTIL A COPY OF THE FAA APPROVAL AND THE ODOT OFFICE OF AVIATION PERMIT HAS BEEN FURNISHED TO THE PROJECT ENGINEER.

FEDERAL AVIATION ADMINISTRATION
SOUTHWEST REGIONAL OFFICE
OBSTRUCTION EVALUATION GROUP
10101 HILLWOOD PARKWAY
FORT WORTH, TX 76177
FAX: (817) 222-5920
HTTP://CEAAA.FAA.GOV

OHIO DEPARTMENT OF TRANSPORTATION
OFFICE OF AVIATION
2829 WEST DUBLIN-GRANVILLE ROAD
COLUMBUS, OHIO 43235
OHIO.AIRPORT.PROTECTION@DOT.OHIO.GOV

DESIGN AGENCY



DESIGNER

JRE

REVIEWER

DWS 02/13/26

PROJECT ID

102655

SHEET

TOTAL

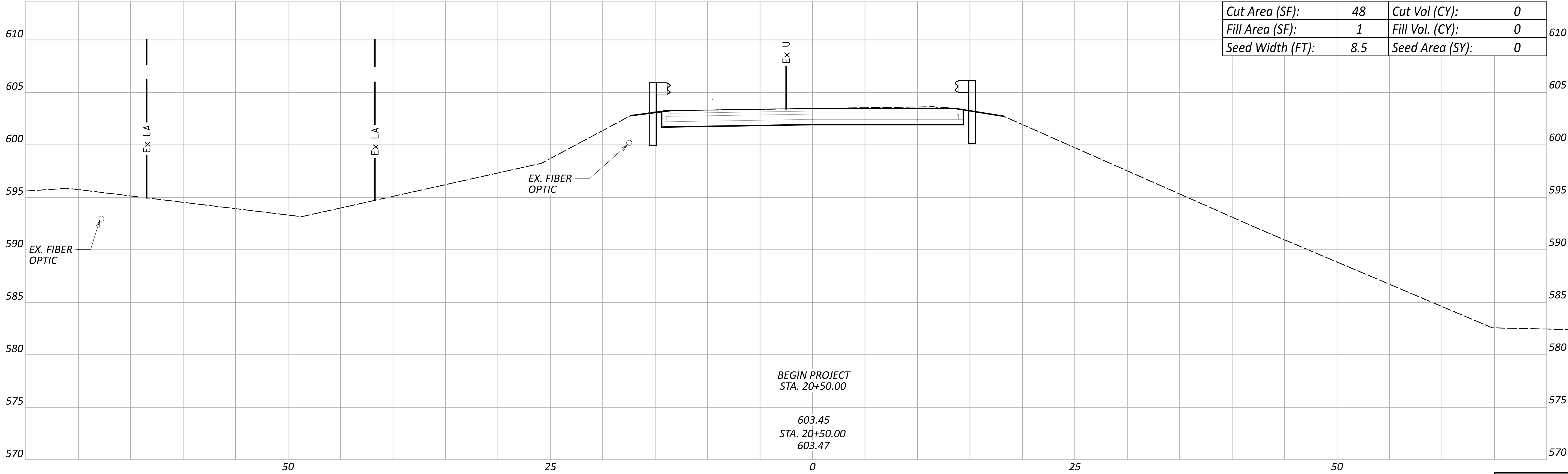
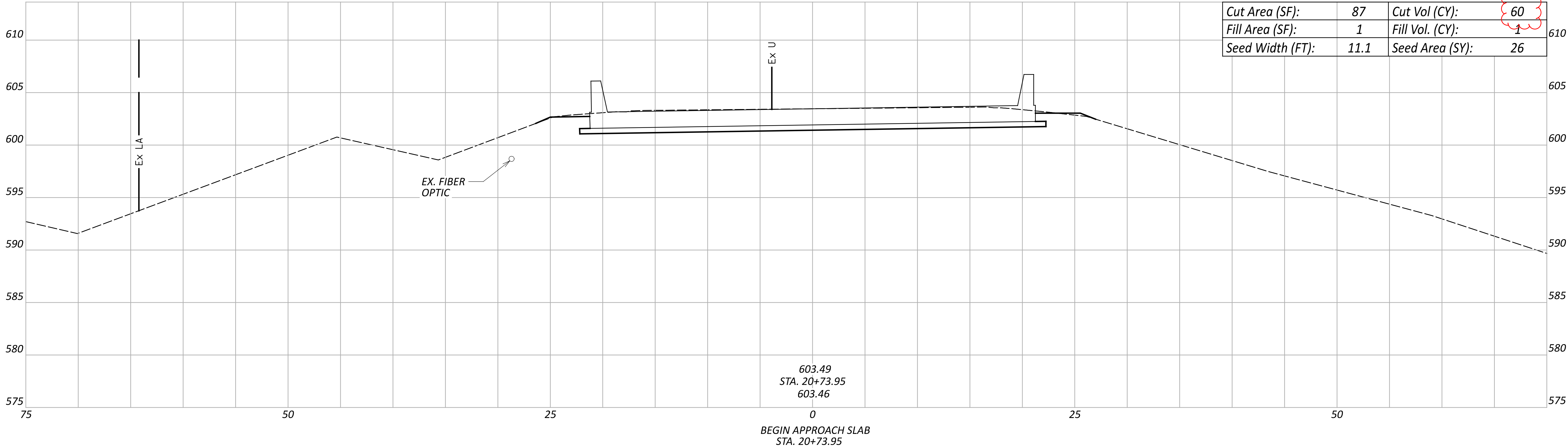
3

52

SHEET NUMBER												PART.		ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
3	4	5	19	20	29	34	35					01/S<2	02/NHS						
LS							133					LS	LS	201	11000	LS		ROADWAY	
				165									133	202	22900	133	SY	CLEARING AND GRUBBING	
							777						165	202	23000	165	SY	APPROACH SLAB REMOVED	
				62									777	202	23500	777	SY	PAVEMENT REMOVED	
													62	202	32000	62	FT	WEARING COURSE REMOVED (4.25" THICK)	
																		CURB REMOVED	
				200									200	202	38000	200	FT	GUARDRAIL REMOVED	
				4									4	202	47000	4	EACH	BRIDGE TERMINAL ASSEMBLY REMOVED	
				360	448							200	248	SPECIAL	20270130	448	FT	PIPE CLEANOUT OVER 48"	29
				74									360	203	10000	360	CY	EXCAVATION	
													74	203	20000	74	CY	EMBANKMENT	
			387										387	204	10000	387	SY	SUBGRADE COMPACTION	
				200									200	606	15050	200	FT	GUARDRAIL, TYPE MGS	
				2									2	606	35002	2	EACH	MGS BRIDGE TERMINAL ASSEMBLY, TYPE 1	
				2									2	606	35102	2	EACH	MGS BRIDGE TERMINAL ASSEMBLY, TYPE 2	
												LS	LS	623	50000	LS		PRECONSTRUCTION SURVEY MONUMENT VERIFICATION AND REPORT	
																		EROSION CONTROL	
2													2	659	00100	2	EACH	SOIL ANALYSIS TEST	
33												12	21	659	00300	33	CY	TOPSOIL	
283												100	183	659	10000	283	SY	SEEDING AND MULCHING	
10													10	659	14000	10	SY	REPAIR SEEDING AND MULCHING	
10													10	659	15000	10	SY	INTER-SEEDING	
							204						204	601	20010	204	CY	CRUSHED AGGREGATE SLOPE PROTECTION	
							4						4	601	21050	4	SY	TIED CONCRETE BLOCK MAT WITH TYPE 1 UNDERLAYMENT	
0.05												0.02	0.03	659	20000	0.05	TON	COMMERCIAL FERTILIZER	
0.07												0.03	0.04	659	31000	0.07	ACRE	LIME	
1.6												0.6	1	659	35000	1.6	MGAL	WATER	
												17,000	2,500	832	30000	19,500	EACH	EROSION CONTROL	
																		DRAINAGE	
				0.21									0.21	602	20000	0.21	CY	CONCRETE MASONRY	
			55										55	605	31100	55	FT	AGGREGATE DRAINS	
				13									13	611	04600	13	FT	12" CONDUIT, TYPE C	
				1									1	611	98180	1	EACH	CATCH BASIN, NO. 3A	
							2						2	611	99710	2	EACH	PRECAST REINFORCED CONCRETE OUTLET	
																		PAVEMENT	
				37									37	301	56000	37	CY	ASPHALT CONCRETE BASE, PG64-22, (449)	
				66									66	304	20000	66	CY	AGGREGATE BASE	
				17									17	407	20000	17	GAL	NON-TRACKING TACK COAT	
				6									6	442	22001	6	CY	ASPHALT CONCRETE SURFACE COURSE, 9.5 MM, TYPE A (449), AS PER PLAN	3
				8									8	442	22301	8	CY	ASPHALT CONCRETE INTERMEDIATE COURSE, 12.5 MM, TYPE A (449), AS PER PLAN	3
													100	609	24510	100	FT	CURB, TYPE 4-C	
																		TRAFFIC CONTROL	
				8									8	626	00102	8	EACH	BARRIER REFLECTOR, TYPE 1 (1 WAY)	
				21									21	630	02100	21	FT	GROUND MOUNTED SUPPORT, NO. 2 POST	
				2.5									2.5	630	80100	2.5	SF	SIGN, FLAT SHEET	
				2									2	630	84900	2	EACH	REMOVAL OF GROUND MOUNTED SIGN	
				2									2	630	86002	2	EACH	REMOVAL OF GROUND MOUNTED POST SUPPORT	
													0.14	646	10010	0.14	MILE	EDGE LINE, 6"	
				0.14									0.07	646	10100	0.07	MILE	LANE LINE, 4"	
																		MAINTENANCE OF TRAFFIC	
	50												50	410	12000	50	CY	TRAFFIC COMPACTED SURFACE, TYPE A OR B	
	50												50	410	13000	50	CY	TRAFFIC COMPACTED SURFACE, TYPE C	
	100												100	614	11110	100	HOURL	LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE	
	1												1	614	12380	1	EACH	WORK ZONE IMPACT ATTENUATOR, 24" WIDE HAZARDS, (UNIDIRECTIONAL)	4
	LS											LS	LS	614	12420	LS		DETOUR SIGNING	4
	50												50	614	13000	50	CY	ASPHALT CONCRETE FOR MAINTAINING TRAFFIC	
			29										29	614	13310	29	EACH	BARRIER REFLECTOR, TYPE 1 (1 WAY)	
			7										7	614	13312	7	EACH	BARRIER REFLECTOR, TYPE 2 (1 WAY)	
			36										36	614	13350	36	EACH	OBJECT MARKER, ONE WAY	



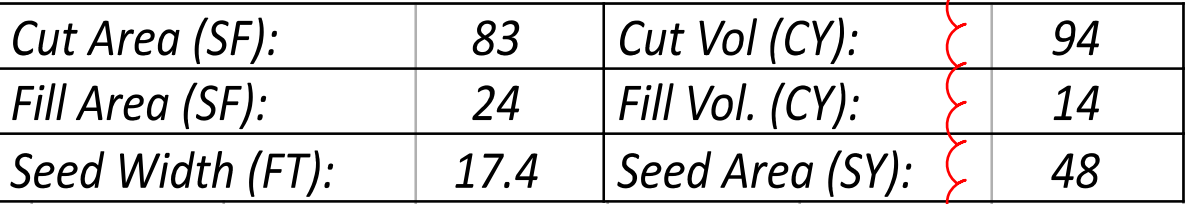
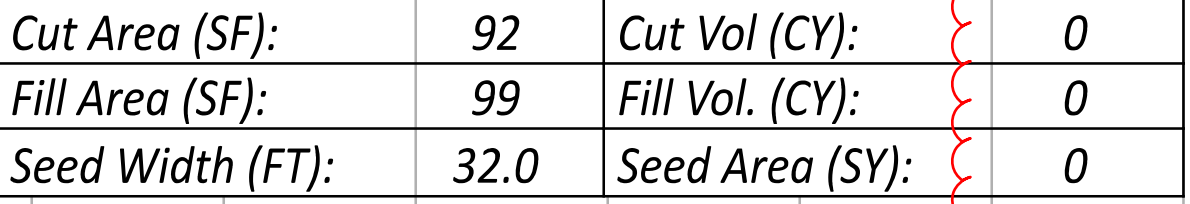
REF NO.	SHEET NO.	STATION TO STATION					202	202	202	202	203	203	602	606	606	606	609	611	611	626
							PAVEMENT REMOVED	CURB REMOVED	GUARDRAIL REMOVED	BRIDGE TERMINAL ASSEMBLY REMOVED	EXCAVATION	EMBANKMENT	CONCRETE MASONRY	GUARDRAIL, TYPE MGS	MGS BRIDGE TERMINAL ASSEMBLY, TYPE 1	MGS BRIDGE TERMINAL ASSEMBLY, TYPE 2	CURB TYPE 4-C	CATCH BASIN, NO. 3A	12" CONDUIT, TYPE C	BARRIER REFLECTOR, TYPE 1
							SY	FT	FT	EACH	CY	CY	CY	FT	EACH	EACH	FT	EACH	FT	EACH
R1	18	20+50.00	LT	TO	20+73.95	LT	36.15													
R2	18	20+50.00	RT		20+73.95	RT	36.15													
R3	18	23+74.43	LT		24+05.00	LT	46.14	30.57												
R4	18	23+74.43	RT		24+05.00	RT	46.14	30.57												
R5	18	20+50.00	LT		20+73.95	LT			50	1										
R6	18	20+50.00	RT		20+73.95	RT			50	1										
R7	18	23+74.43	LT		24+05.00	LT			50	1										
R8	18	23+74.43	RT		24+05.00	RT			50	1										
D1	18	24+00.00				LT							0.21					1	13	
GR1	18	20+50.00	LT		20+73.95	LT								50		1				2
GR2	18	20+50.00	RT		20+73.95	RT								50		1				2
GR3	18	23+74.43	LT		24+05.00	LT								50	1		50			2
GR4	18	23+74.43	RT		24+05.00	RT								50	1		50			2
02/NHS/10	27	20+50.00		TO	24+05.00						360	74								
01/S<2/13																				
SUBTOTALS (01/S<2)																				
SUBTOTALS (02/NHS)							165	62	200	4	360	74	0.21	200	2	2	100	1	13	8
TOTALS CARRIED TO GENERAL SUMMARY							165	62	200	4	360	74	0.21	200	2	2	100	1	13	8



Sheet Totals		
Seeding	Cut	Fill
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LOR-6/611-6.86/0.05

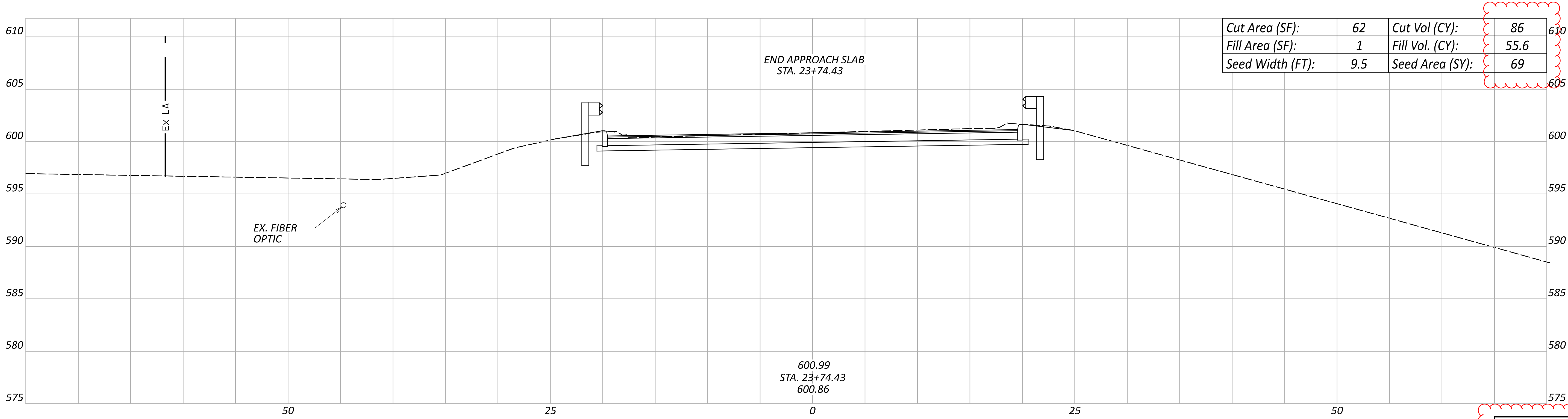
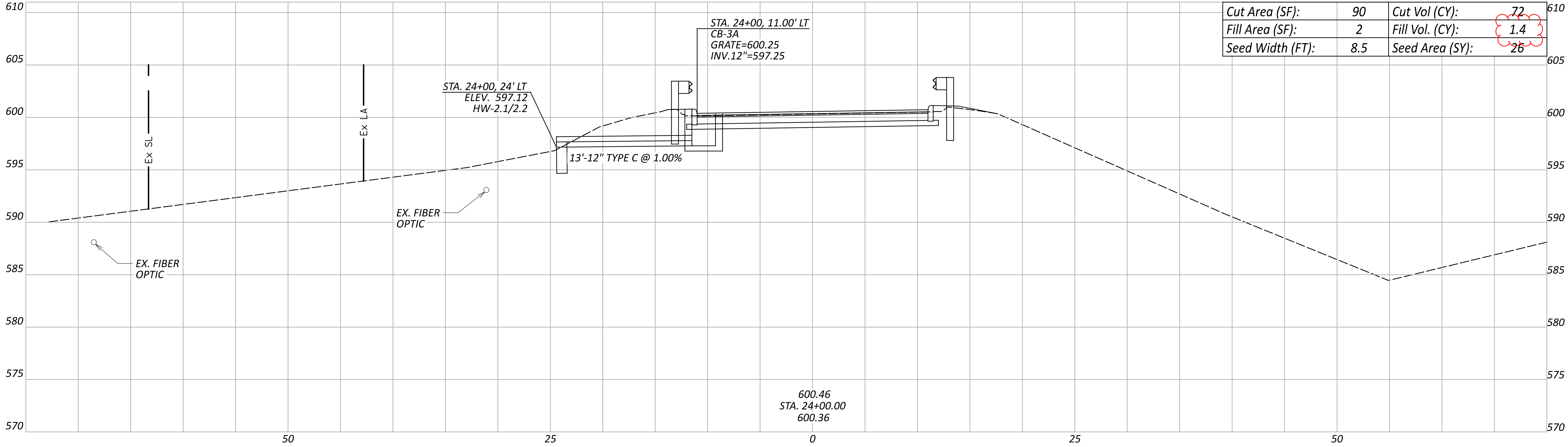
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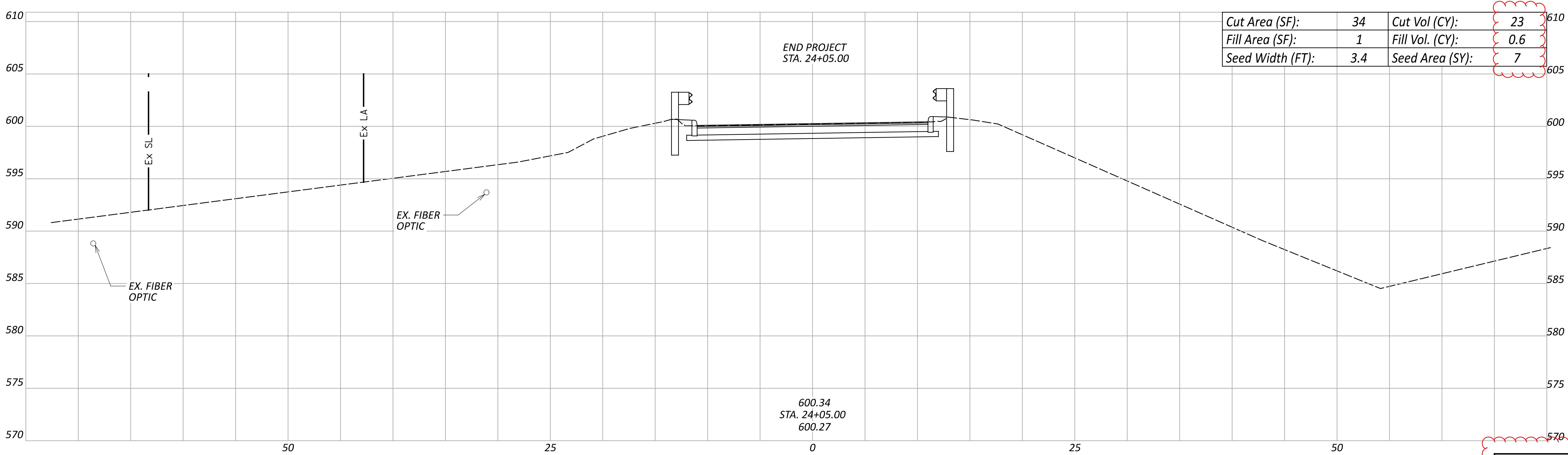
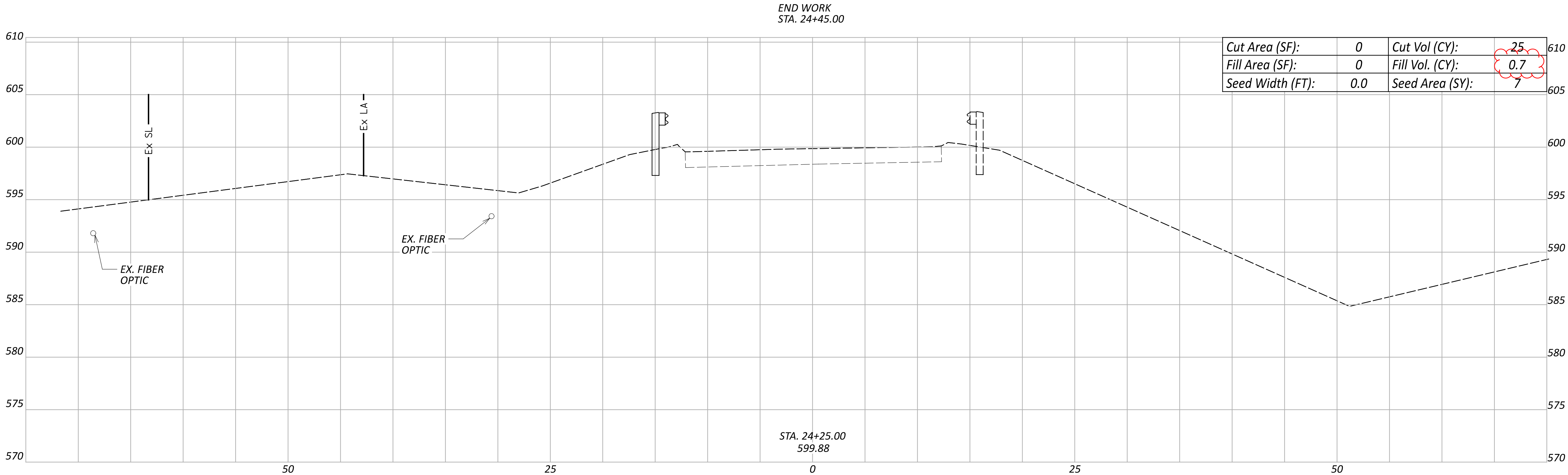
Sheet Totals		
Seeding	Cut	Fill
48	94	14

DESIGN AGENCY	
	
DESIGNER	
JRE	
REVIEWER	
DWS 02/13/26	
PROJECT ID	
102655	
SHEET	TOTAL
24	52

CROSS SECTIONS-S.R. 611 W.B. RAMP
STA. 21+03.95 TO STA. 23+44.43



Sheet Totals			SHEET	TOTAL
Seeding	Cut	Fill		
95	158	57	25	52



Sheet Totals		
Seeding	Cut	Fill
14	48	1.3

CROSS SECTIONS-S.R. 611 W.B. RAMP
STA. 24+05.00 TO STA. 24+25.00

DESIGN AGENCY



DESIGNER

JRE

REVIEWER

DWS 02/13/26

PROJECT ID

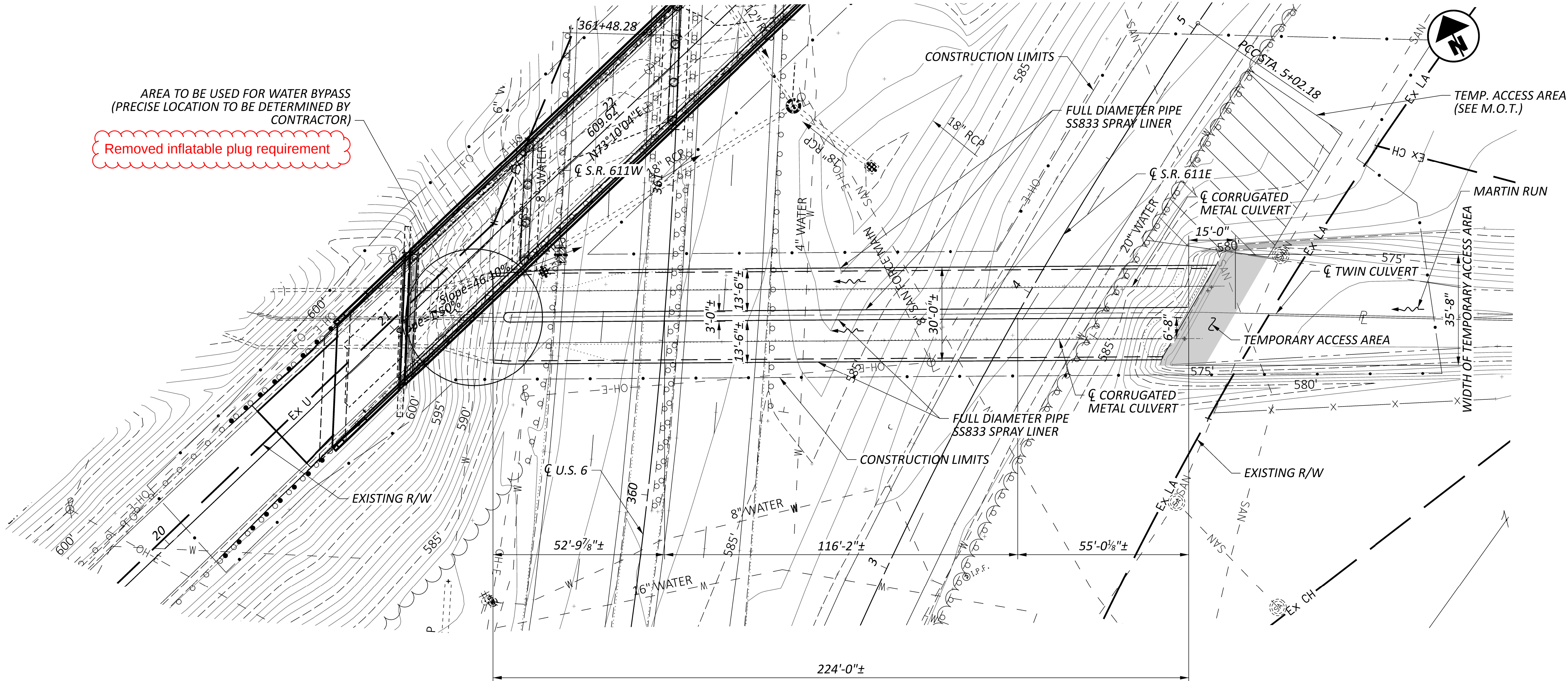
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SHEET

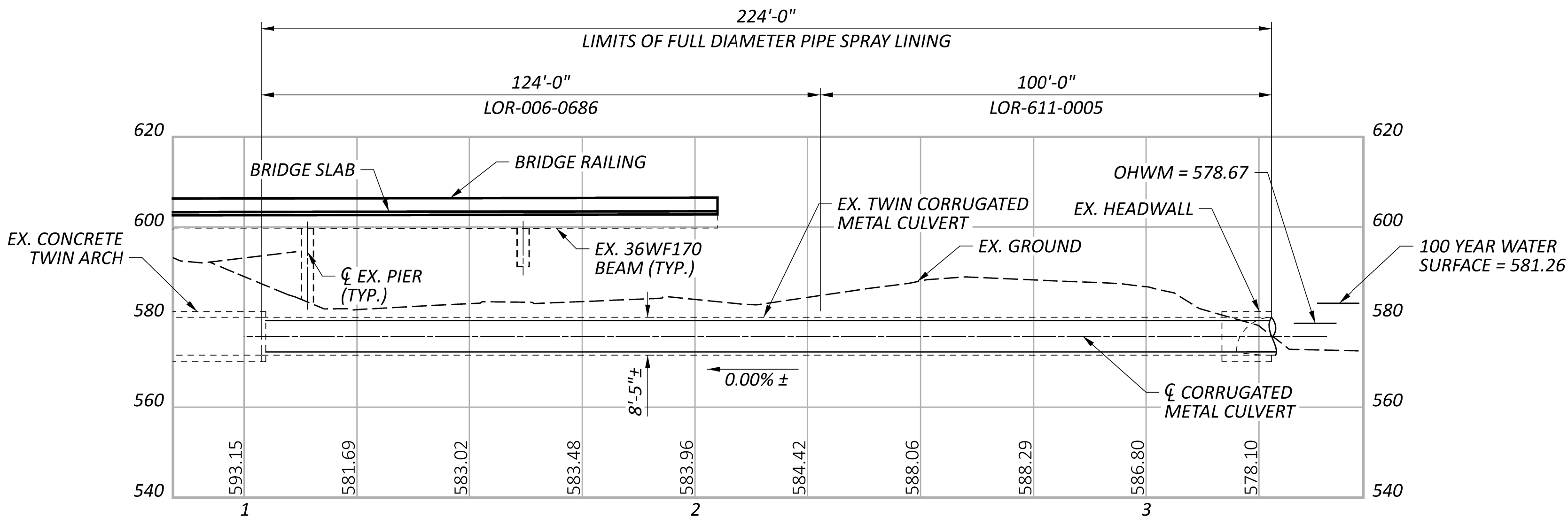
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TOTAL

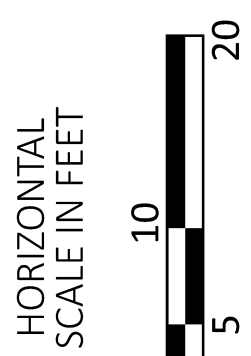
52



PLAN



PROFILE
(SOUTHERN CULVERT SHOWN)
(NORTHERN CULVERT SIMILAR)



SITE PLAN
BRIDGE NO. LOR-006-0686 AND LOR-611-0005
U.S.R. 6 AND S.R. 611 OVER MARTIN RUN

SFN 4707435

SFN 4707532

DESIGN AGENCY



DESIGNER JML CHECKER YRY

REVIEWER

DWS 02/13/26

PROJECT ID 102655

SUBSET TOTAL 1 3

SHEET TOTAL 28 52

GENERAL NOTES:

STANDARD DRAWINGS AND SUPPLEMENTAL SPECIFICATIONS
REFER TO THE FOLLOWING SUPPLEMENTAL SPECIFICATIONS:

833 DATED 01/16/2026

DESIGN SPECIFICATIONS

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

DESIGN LOADING

DESIGN LOADING INCLUDES:
VEHICULAR LIVE LOAD: HL-93

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.

REVIEW OF DRAINAGE FACILITIES

PRIOR TO THE START OF WORK AND AGAIN BEFORE FINAL ACCEPTANCE, PERFORM AN INSPECTION WITH REPRESENTATIVES OF THE DEPARTMENT, CONTRACTOR AND LOCALS OF ALL EXISTING DRAINAGE FACILITIES THAT ARE TO REMAIN IN SERVICE WHICH MAY BE AFFECTED BY THE WORK. THE CONDITION OF THE EXISTING CONDUITS AND THEIR APPURTENANCES IS DETERMINED FROM FIELD OBSERVATIONS. RECORDS OF THE INSPECTION ARE MAINTAINED BY THE DEPARTMENT.

CONFIRM ALL EXISTING SEWERS INSPECTED INITIALLY BY THE ABOVE-MENTIONED PARTIES ARE MAINTAINED AND LEFT IN A CONDITION COMPARABLE TO THAT DETERMINED BY THE ORIGINAL INSPECTION. THE CONTRACTOR IS RESPONSIBLE TO CORRECT ANY CHANGE IN THE CONDITION RESULTING FROM THEIR OPERATIONS AS DIRECTED AND APPROVED BY THE ENGINEER.

PAYMENT FOR ALL OPERATIONS DESCRIBED ABOVE IS INCLUDED IN THE CONTRACT PRICE FOR THE PERTINENT 611 CONDUIT ITEMS.

ITEM 503 - COFFERDAMS AND EXCAVATION BRACING, AS PER PLAN

PROVISIONS OF CMS ITEM 503 SHALL APPLY EXCEPT AS MODIFIED HEREIN. THE REPAIR SITE IS LOCATED IN AN EXISTING CULVERT WHICH EXPERIENCES SIGNIFICANT FLOW DURING WET WEATHER. ALL FLOW FROM WET WEATHER EVENTS MUST BE PERMITTED TO PASS THROUGH ONE CELL OF THE WORK OPERATIONS BY USING AN INFLATABLE PIPE PLUG, OR ANY APPROVED ALTERNATIVE METHOD, BETWEEN THE TWO CMP CELLS AND DEWATERING

ALL MATERIALS (INCLUDING THE COST FOR THE INFLATABLE PLUG OR ANY APPROVED ALTERNATIVE METHOD BETWEEN THE TWO CMP CELLS AND DEWATERING), FLOW BYPASS, LABOR, SUBMITTALS, AND INCIDENTALS REQUIRED FOR THE PERFORMANCE OF WORK AS DETAILED HEREIN AND IN THESE PLANS SHALL BE INCLUDED IN THE LUMP SUM BID PRICE FOR ITEM 503 - COFFERDAMS AND EXCAVATIONS BRACING, AS PER PLAN.

ITEM 611 - RESIDENTIAL AND COMMERCIAL DRAINAGE CONNECTIONS

EXISTING ROOF DRAINS, FOOTER DRAINS, OR YARD DRAINS, DISTURBED BY THE WORK, SHALL BE PROVIDED WITH THE UNOBSTRUCTED OUTLETS BY CONNECTING A CONDUIT THROUGH THE CURB OR INTO A DRAINAGE STRUCTURE, THE LOCATION, TYPE, SIZE AND GRADE OF THE NEW CONDUIT REQUIRED TO REPLACE OR EXTEND THE EXISTING DRAIN WILL BE DETERMINED BY THE ENGINEER.

THE FOLLOWING CONDUIT TYPES MAY BE USED: 707.33, 704.41 NON-PERFORATED, 704.42, 707.43, 707.45, 707.46, 707.47, 707.51, 707.52 SDR35.

PAYMENT FOR ALL LABOR AND MATERIALS WILL BE PERFORMED BY CHANGE ORDER.

ITEM 833 - CONDUIT RENEWAL USING SPRAY APPLIED STRUCTURAL LINER, ARCH, AS PER PLAN (161" SPAN X 101" RISE)

THIS WORK CONSISTS OF CONDUIT LINING WITH SPRAY APPLIED, FACTORY BLENDED CEMENTITIOUS, GEOPOLYMER, OR RESIN-BASED MATERIAL. SPRAY APPLY CEMENTITIOUS OR GEOPOLYMER MATERIAL BY CENTRIFUGAL CASTING FOR CONDUITS EQUAL TO OR LESS THAN 120-INCHES IN DIAMETER OR SPAN. HAND SPRAY LINER TO CONDUITS THAT CANNOT BE CENTRIFUGALLY CAST. THE TERM "HOST PIPE" REFERS TO CONDUIT BEING RENEWED WITH THE SPRAY APPLIED STRUCTURAL LINER SYSTEM.

THE LINER SHALL HAVE A MINIMUM DESIGN THICKNESS OF 3". THE DESIGN THICKNESS SHALL BE MEASURED FROM THE TOP OF CORRUGATION PROFILE. THE CONTRACTOR SHALL PROVIDE DESIGN CALCULATIONS USING A MINIMUM 3" DESIGN THICKNESS OF THE PROPOSED LINEAR. ALL OTHER DESIGN REQUIREMENTS SHALL MEET SUPPLEMENTAL SPECIFICATION 833.

THE CONTRACTOR SHALL HAND APPLY THE LINER. THIS WORK SHALL ALSO INCLUDE ALL LABOR AND MATERIALS TO PATCH HOLES AND GAPS IN THE HOST PIPE WITH AN APPROVED HYDRAULIC CEMENT OR THE SAME CEMENTITIOUS OR GEOPOLYMER BASED MATERIAL TO BE USED FOR THE LINER TO PROVIDE A SOLID CONTINUOUS SURFACE ON WHICH TO SPRAY. COMPLETELY STOP WATER INFILTRATION IN TO THE HOST PIPE.

APPLY CEMENTITIOUS OR GEOPOLYMER MATERIAL TO THE MINIMUM THICKNESS MEASURED FROM THE CREST OF THE CORRUGATIONS FOR ALL CORRUGATED CONDUITS. APPLY THE LINING MATERIAL TO THE THICKNESS ELEVATION IN ORDER TO CREATE A UNIFORM INTERNAL SURFACE WITHOUT CORRUGATIONS. IF NECESSARY TO ACHIEVE A UNIFORM INTERNAL SURFACE, COMPLETELY FILL THE CORRUGATION VALLEYS FIRST.

PAYMENT FOR CONDUIT RENEWAL INCLUDES EXCAVATION, BACKFILL, ENCASEMENT, PREPARATION, INSPECTIONS, AND ALL OTHER WORK REQUIRED TO COMPLETE THE SPECIFIED ITEMS.

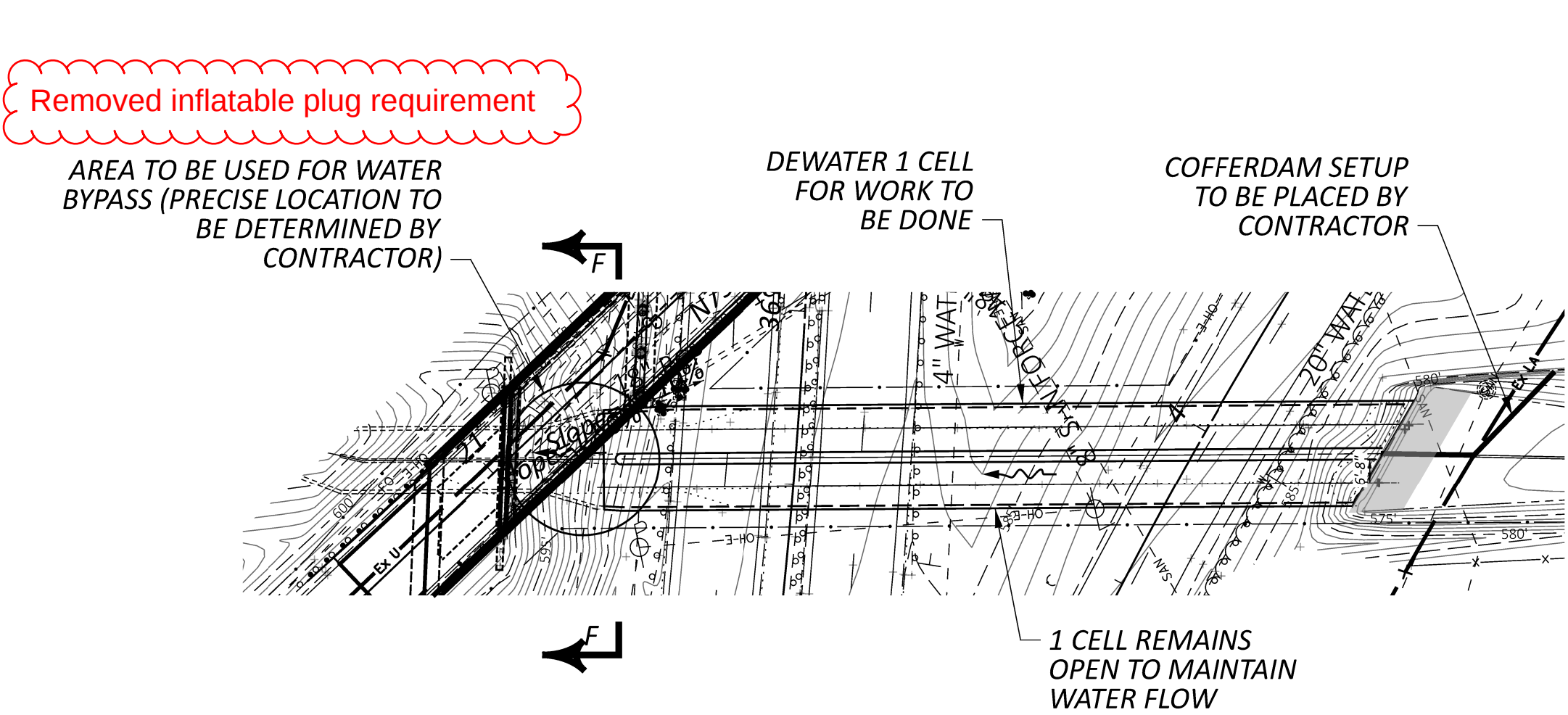
ITEM SPECIAL - PIPE CLEANOUT

THIS WORK CONSISTS OF REMOVING SEDIMENT AND DEBRIS FROM THE EXISTING DRAINAGE CONDUITS SPECIFIED IN THE PLANS. DISPOSE OF ALL MATERIAL PER 105.16 AND 105.17. CLEAN OUT TO THE APPROVAL OF THE ENGINEER.

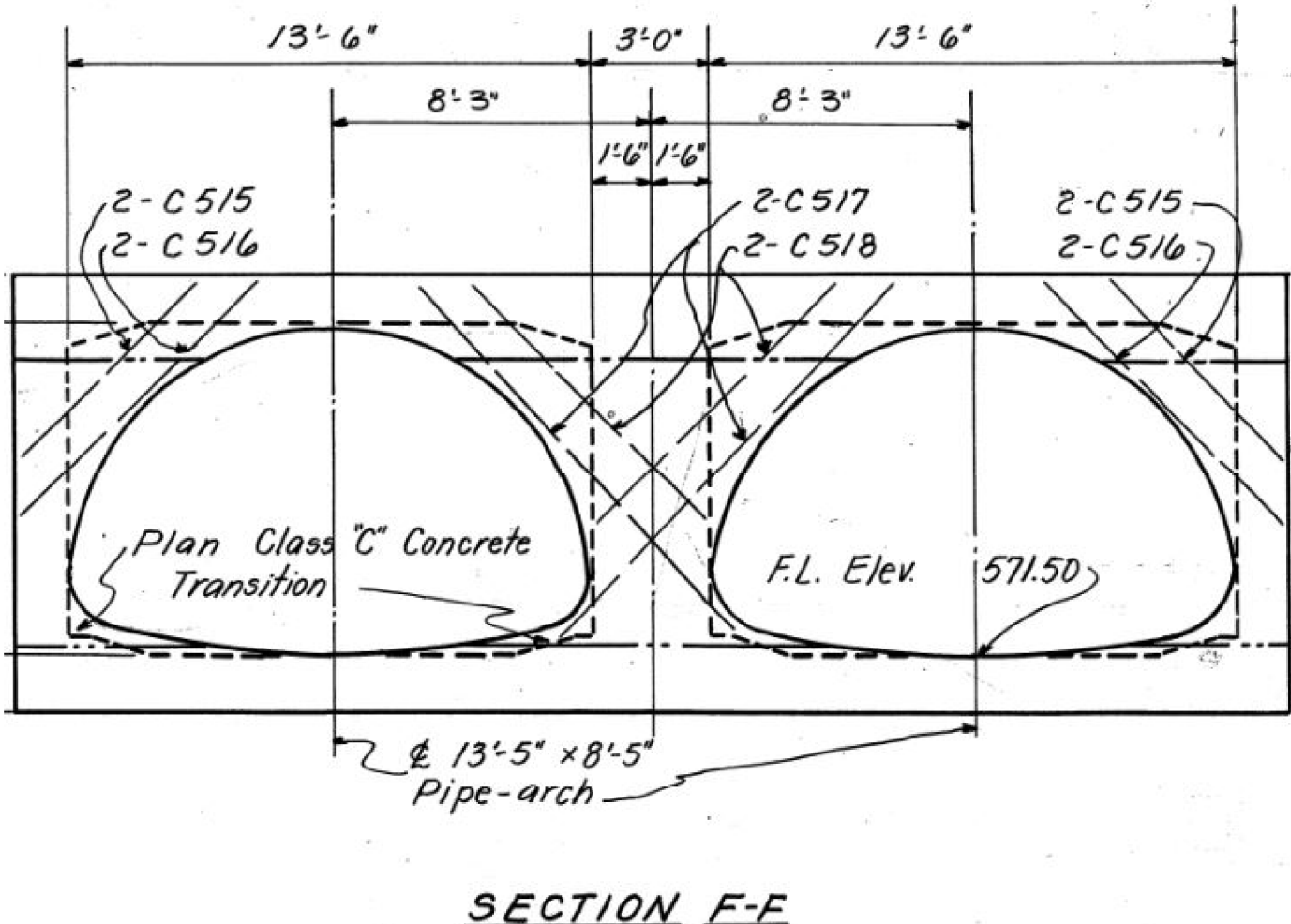
CLEANOUT OF THE PIPE IS PAID FOR AT THE UNIT PRICE BID FOR ITEM SPECIAL, PIPE CLEANOUT. THIS PRICE INCLUDES THE COST FOR MATERIAL, EQUIPMENT, LABOR, AND ALL INCIDENTALS REQUIRED TO COMPLETE THE CLEANOUT.

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN INCLUDED IN THE TABLE BELOW FOR THE WORK NOTED ABOVE:

ITEM SPECIAL, PIPE CLEANOUT, OVER 48".



TWIN CULVERT PLAN



02/NHS	01/S<2	ITEM	EXTENSION	QUANTITY	UNIT	DESCRIPTION	ABUTMENTS	PIERS	SUPERSTRUCTURE	GENERAL	AS PER PLAN SHEET NUMBER
	1	503	11101	1	LUMP	COFFERDAMS AND EXCAVATION BRACING, AS PER PLAN				1	2 / 3
248	200	SPECIAL	20270130	448	FT	PIPE CLEANOUT OVER 48"				448	2 / 3
248	200	833	12001	448	FT	CONDUIT RENEWAL USING SPRAY APPLIED STRUCTURAL LINER, ARCH, AS PER PLAN (161" SPAN X 101" RISE)				448	2 / 3

CALCULATED BY: JML
CHECKED BY: YRY

GENERAL NOTES
BRIDGE NO. LOR-006-0686 AND LOR-611-0005
U.S.R. 6 AND S.R. 611 OVER MARTIN RUN

SFN4707435

SFN4707532

DESIGN AGENCY

DESIGNER: JML

CHECKER: YRY

REVIEWER: DWS

PROJECT ID: 102655

SUBSET: 2

TOTAL: 3

SHEET: 29

TOTAL: 52

02/13/26