

CROSSINGS AND CONNECTIONS TO EXISTING PIPES AND UTILITIES

WHERE PLANS PROVIDE FOR A PROPOSED CONDUIT TO BE CONNECTED TO, OR CROSS OVER OR UNDER AN EXISTING SEWER OR UNDERGROUND UTILITY, LOCATE THE EXISTING PIPES OR UTILITIES BOTH AS TO LINE AND GRADE BEFORE STARTING TO LAY THE PROPOSED CONDUIT.

IF IT IS DETERMINED THAT THE ELEVATION OF THE EXISTING CONDUIT, OR EXISTING APPURTENANCE TO BE CONNECTED, DIFFERS FROM THE PLAN ELEVATION OR RESULTS IN A CHANGE IN THE PLAN CONDUIT SLOPE, NOTIFY THE ENGINEER BEFORE STARTING CONSTRUCTION OF ANY PORTION OF THE PROPOSED CONDUIT WHICH WILL BE AFFECTED BY THE VARIANCE IN THE EXISTING ELEVATIONS.

IF IT IS DETERMINED THAT THE PROPOSED CONDUIT WILL INTERSECT AN EXISTING SEWER OR UNDERGROUND UTILITY IF CONSTRUCTED AS SHOWN ON THE PLAN, NOTIFY THE ENGINEER BEFORE STARTING CONSTRUCTION OF ANY PORTION OF THE PROPOSED CONDUIT WHICH WOULD BE AFFECTED BY THE INTERFERENCE WITH AN EXISTING FACILITY.

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

PIPE CONNECTIONS TO CORRUGATED METAL STRUCTURES

PROVIDE CONNECTIONS OF PROPOSED LONGITUDINAL DRAINAGE TO CORRUGATED METAL STRUCTURES BY MEANS OF A SHOP FABRICATED OR FIELD WELDED STUB ON THE STRUCTURE. FURNISH A STUB MEETING THE REQUIREMENTS OF 707 WITH A MINIMUM LENGTH OF 2 FEET AND A MINIMUM WALL THICKNESS OF 0.064 INCHES.

THE LOCATION AND ELEVATION OF THE STUB ARE TO BE CONSIDERED APPROXIMATE AND MAY BE ADJUSTED BY THE ENGINEER TO AVOID CUTTING THROUGH JOINTS IN THE STRUCTURE.

THOROUGHLY CLEAN AND REGALVANIZE OR OTHERWISE SUITABLY REPAIR THE FIELD WELDED JOINT, IF USED. MEET WELDING REQUIREMENTS OF 513.21.

PROVIDE A MASONRY COLLAR PER STANDARD CONSTRUCTION DRAWING DM-1.1, TO CONNECT THE LONGITUDINAL DRAINAGE TO THE STUB, WHEN PIPE OTHER THAN CORRUGATED METAL IS USED FOR THE LONGITUDINAL DRAINAGE.

PAYMENT FOR CUTTING INTO THE STRUCTURE AND PROVIDING THE CONNECTION DESCRIBED, IS INCLUDED IN THE CONTRACT PRICE FOR ITEM 611 OR 522.

CATCH BASIN 3A, AS PER PLAN

PROVIDE SPECIAL FRAME AND GRATE FOR CATCH BASIN 3A PROPOSED ALONG MOUNTABLE CURB WITHIN ROUNDABOUT LIMITS. USE ITEM 'INLET FOR ROLL TYPE CURB R-3501-TL' OR 'INLET FOR ROLL TYPE CURB R-3501-TR' FURNISHED BY NEENAH FOUNDRY OR APPROVED EQUAL. IF NECESSARY, CURB HEIGHT AND SHAPE TRANSITIONS IN AND OUT OF AS PER PLAN CASTINGS SHALL BE INCIDENTAL TO THE APPLICABLE ITEM 609.

CATCH BASIN 3, AS PER PLAN

PROVIDE SPECIAL FRAME AND GRATE FOR CATCH BASIN 3 PROPOSED ALONG MOUNTABLE CURB WITHIN ROUNDABOUT LIMITS. PROVIDE TWO OF ITEM 'R-3270: ROLL TYPE INLET FRAME, GRATE' FURNISHED BY NEENAH FOUNDRY OR APPROVED EQUAL. IF NECESSARY, CURB HEIGHT AND SHAPE TRANSITIONS IN AND OUT OF AS PER PLAN CASTINGS SHALL BE INCIDENTAL TO THE APPLICABLE ITEM 609.

ITEM SPECIAL - MISCELLANEOUS METAL

EXISTING CASTINGS MAY PROVE TO BE UNSUITABLE FOR REUSE, AS DETERMINED BY THE ENGINEER. THE CONTRACTOR IS RESPONSIBLE TO PROVIDE THE CASTINGS OF THE REQUIRED TYPE, SIZE AND STRENGTH (HEAVY OR LIGHT DUTY) FOR THE PARTICULAR STRUCTURE IN QUESTION. FURNISH MATERIALS PER 611 WITH PRIOR APPROVAL OF THE ENGINEER.

THE FOLLOWING ESTIMATED QUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY FOR USE AS DIRECTED BY THE ENGINEER.

ITEM SPECIAL, MISCELLANEOUS METAL 400 LB

REPLACE EXISTING CASTINGS DAMAGED BY CONTRACTOR NEGLIGENCE, AS DETERMINED BY THE ENGINEER, AT THE EXPENSE OF THE CONTRACTOR.

FARM DRAINS

PROVIDE UNOBSTRUCTED OUTLETS TO ALL FARM DRAINS ENCOUNTERED DURING CONSTRUCTION. REPLACE EXISTING COLLECTORS WHICH ARE LOCATED BELOW THE ROADWAY DITCH ELEVATIONS, AND WHICH CROSS THE ROADWAY WITHIN THE CONSTRUCTION LIMITS WITH ITEM 611, CONDUIT, TYPE B, ONE COMMERCIAL SIZE LARGER THAN THE EXISTING CONDUIT.

OUTLET EXISTING COLLECTORS AND ISOLATED FARM DRAINS, WHICH ARE ENCOUNTERED ABOVE THE ELEVATION OF ROADWAY DITCHES INTO THE ROADWAY DITCH USING ITEM 611, TYPE F CONDUIT. THE OPTIMUM OUTLET ELEVATION IS ONE FOOT ABOVE THE FLOWLINE ELEVATION OF THE DITCH. INTERCEPT LATERAL FIELD TILES WHICH CROSS THE ROADWAY WITH ITEM 611, TYPE E CONDUIT, AND CARRY IN A LONGITUDINAL DIRECTION TO AN ADEQUATE OUTLET OR ROADWAY CROSSING. THE LOCATION, TYPE, SIZE AND GRADE OF REPLACEMENTS IS DETERMINED BY THE ENGINEER AND PAYMENT MADE ON FINAL MEASUREMENTS.

PROVIDE EROSION CONTROL PADS AT THE OUTLET END OF ALL FARM DRAINS PER STANDARD CONSTRUCTION DRAWING DM-1.1, EXCEPT WHEN THEY OUTLET INTO A DRAINAGE STRUCTURE.

PAYMENT FOR THE EROSION CONTROL PADS AND ANY NECESSARY BENDS OR BRANCHES IS INCLUDED FOR PAYMENT IN THE PERTINENT CONDUIT ITEMS.

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN INCLUDED IN THE GENERAL SUMMARY FOR THE WORK NOTED ABOVE:

611	6" CONDUIT, TYPE B	50 FT
611	6" CONDUIT, TYPE E	100 FT
611	6" CONDUIT, TYPE F	10 FT
601	ROCK CHANNEL PROTECTION TYPE C WITH FILTER	2 CU. YD

ITEM 204 - SUBGRADE COMPACTION AND PROOF ROLLING

CONSTRUCT THE SUBGRADE AS FOLLOWS AND IN THE FOLLOWING SEQUENCE.

1. SHAPE THE SUBGRADE TO WITHIN 0.2 FEET OF THE PLAN SUBGRADE ELEVATION.

2. EXCAVATE AND REPLACE UNSUITABLE SUBGRADE BEFORE PROOF ROLLING. UNSUITABLE SUBGRADE INCLUDES UNSUITABLE SOIL (A-4B, A-2-5, A-5, A-7-5, AND SOIL WITH A LIQUID LIMIT GREATER THAN 65) AND ANY COAL, SHALE, OR ROCK WHICH NEEDS TO BE REMOVED ACCORDING TO SECTION 204.05 OF THE CONSTRUCTION AND MATERIAL SPECIFICATIONS (C&MS).

EXCAVATE AND REPLACE BLAST FURNACE SLAG ENCOUNTERED IN THE SUBGRADE. EXCAVATION LIMITS ARE SHOWN AND LABELED ON THE CROSS SECTIONS AS UNSUITABLE SUBGRADE.

IF THERE IS UNSUITABLE SUBGRADE IN A SHALLOW FILL LOCATION, EXCAVATE AND REPLACE THE UNSUITABLE SUBGRADE BEFORE CONSTRUCTING THE SHALLOW FILL AND SHAPING THE SUBGRADE.

3. COMPACT THE SUBGRADE ACCORDING TO C&MS 204.03.

4. THE ENGINEER WILL IDENTIFY THE LIMITS OF EXCAVATION FOR UNSTABLE SUBGRADE BASED ON THE PROOF ROLLING RESULTS AND VISUAL OBSERVATIONS.

PROOF ROLL THE COMPACTED SUBGRADE ACCORDING TO C&MS 204.06.

5. EXCAVATE UNSTABLE SUBGRADE AS DIRECTED BY THE ENGINEER AND STABILIZE BYREPLACING WITH THE SPECIFIED MATERIALS ACCORDING TO C&MS 204.07. EXCAVATIONS WILL EXTEND 18 INCHES BEYOND THE EDGE OF THE SURFACE OF THE PAVEMENT, PAVED SHOULDERS, OR PAVED MEDIANS.

6. PROOF ROLL THE STABILIZED AREAS ACCORDING TO C&MS 204.06 TO VERIFY STABILITY.

7. FINE GRADE THE SUBGRADE TO THE SPECIFIED GRADE

THE QUANTITY FOR EXCAVATING THE UNSUITABLE SUBGRADE IS PAID UNDER ITEM 204 EXCAVATION OF SUBGRADE, AS PER PLAN AND UNSTABLE SUBGRADE IS PAID UNDER ITEM 204 EXCAVATION OF SUBGRADE.

ITEM 204 - EXCAVATION OF SUBGRADE, AS PER PLAN
ITEM 204 - EMBANKMENT, AS PER PLAN

THE CROSS SECTIONS INDICATE AREAS OF UNDERCUT. THESE AREAS INDICATE UNSUITABLE MATERIAL THAT MUST BE REMOVED AND DISPOSED OF OFF THE PROJECT SITE IN ACCORDANCE WITH ENVIRONMENTAL REGULATIONS THAT MAY GOVERN THIS MATERIAL.

REMOVE ALL UNSUITABLE MATERIAL INCLUDING BUT NOT LIMITED TO BASE MATERIAL AND BLAST FURNACE SLAG BENEATH THE PAVEMENT. A TOTAL DEPTH OF 24 INCHES HAS BEEN USED FOR ESTIMATING. THE ACTUAL DEPTH SHALL BE AS DIRECTED BY THE ENGINEER IN THE FIELD.

THE EXCAVATED MATERIAL SHALL NOT BE REUSED ON THE PROJECT. DISPOSE OF THE MATERIAL OFF OF THE PROJECT SITE ACCORDING TO 105.16 & 105.17 OF THE CMS AND ANY OTHER REGULATIONS THAT MIGHT GOVERN THE MATERIAL.

BACKFILL THE EXCAVATION TO THE LIMITS SHOWN OF THE CROSS SECTIONS. REPLACEMENT MATERIAL SHALL BE ITEM 204 - EMBANKMENT, AS PER PLAN.

ALL EQUIPMENT, LABOR, TOOLS, AND INCIDENTALS NECESSARY TO COMPLETE THESE ITEMS SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM 204 EXCAVATION OF SUBGRADE, AS PER PLAN AND FOR ITEM 204 EMBANKMENT, AS PER PLAN.

ITEM 620 - DELINEATOR, POST GROUND MOUNTED, AS PER PLAN

A GROUND POST MOUNTED DELINEATOR SHALL BE PLACED AT THE OUTLET OF THE UNDERDRAINS WHERE THE OUTLET IS NOT TO A DRAINAGE STRUCTURE (MANHOLE, CATCH BASIN, INLET, ETC). THE COLOR OF THE REFLECTIVE SHEETING SHALL BE BLUE.

ITEM 621 - RPM, AS PER PLAN
ITEM 621 - RAISED PAVEMENT MARKER REMOVED, AS PER PLAN
ITEM 644 - LANE LINE, 6", AS PER PLAN
ITEM 644 - CENTER LINE, AS PER PLAN
ITEM 644 - CHANNELIZING LINE, 12", AS PER PLAN
ITEM 644 - STOP LINE, AS PER PLAN
ITEM 644 - LANE ARROW, AS PER PLAN

IN ADDITION TO THE REQUIREMENTS OF CMS 621 FOR RPMS AND 646 FOR EPOXY PAVEMENT MARKINGS, ALL PAVEMENT MARKINGS IN THE RESUFACING AREA WILL BE REPLACED AS IT CURRENTLY IS IF NOT MARKED ON THE PLAN SHEETS. THE CONTRACTOR SHALL REPLACE THE LANE LINES, CENTER TWO WAY LEFT TURN LANE LINES AND ARROWS AND THE LEFT TURN LANE AT THE INTERSECTION OF NOTRE DAME AND WILLOW CREST. THE APPROPRIATE RPMS SHALL ALSO BE INSTALLED BY THE CONTRACTOR FOLLOWING TC-65.10 AND TC-65.11.

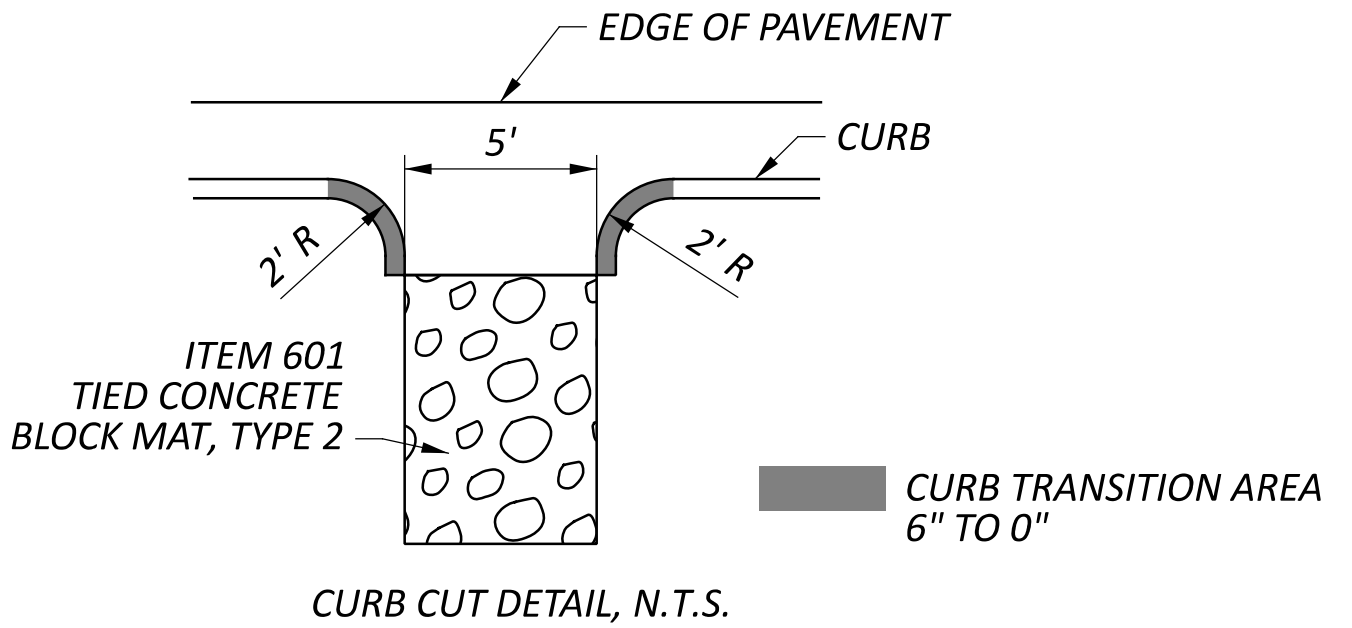
PAYMENT WILL INCLUDE REMOVAL OF THE EXISTING MATERIAL, INSTALLATION AND FURNISHING OF NEW PAVEMENT MARKINGS, AND ALL LABOR AND MATERIALS REQUIRED TO COMPLETE THIS ITEM OF WORK AS DESCRIBED.

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN INCLUDED IN THE GENERAL SUMMARY FOR THE WORK NOTED ABOVE:

ITEM 621, RPM, AS PER PLAN	61 EACH
ITEM 621, RAISED PAVEMENT MARKER REMOVED, AS PER PLAN	61 EACH
ITEM 646, LANE LINE 6", AS PER PLAN	0.11 MILE
ITEM 646, CENTER LINE, AS PER PLAN	0.47 EACH
ITEM 646, CHANNELIZING LINE, 12", AS PER PLAN	215 FT
ITEM 646, STOP LINE, AS PER PLAN	24 FT
ITEM 646, LANE ARROW, AS PER PLAN	6 EACH

CURB CUT

WHEN PROPOSING A ROADWAY CURB CUT, PROVIDE A 5' WIDE CURB OPENING (4' MINIMUM) TO ALLOW CONVEYANCE OF ROADWAY RUNOFF. THE CONCRETE SLOPE WILL MATCH PROPOSED GUTTER CROSS SLOPE. PROVIDE A 2' CURB RADIUS THAT ALLOWS FOR A CURB HEIGHT TRANSITION FROM 6" TO 0" THAT MATCHES PROPOSED GRADE. THE CURB DROP AND OPENING IS ALL INCIDENTAL TO THE CURB PAY ITEM. PROVIDE TIED CONCRETE BLOCK MAT, TYPE 2, AT THE DOWNSTREAM END OF THE CURB OPENING.



ITEM 452 - 4" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC 1P, AS PER PLAN
ITEM 452 - 9" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC 1P, AS PER PLAN

THIS WORK SHALL CONSIST OF CONSTRUCTING THE CONCRETE INCLUDING A DYED COLORING FOR THE ROUNDABOUT SPLITTER ISLANDS AND TRUCK APRON(S).

MATERIALS:

- A. CONCRETE SHALL BE IN ACCORDANCE WITH THE PLANS AND SECTION 452 OF THE ODOT CMS. CONCRETE SHALL BE CLASS QC 1P.
- B. FOLLOW THE MANUFACTURER'S MIXING AND INSTALLATION REQUIREMENTS FOR COLORIZED CONCRETE. PROVIDE ONE OF THE FOLLOWING OR APPROVED EQUAL:
 - a. COLORFLO 417 "PAVER RED" AS MANUFACTURED BY SOLOMON COLORS (1-800-624-0261)
 - b. MIX-READY 160 "BRICK RED" AS MANUFACTURED BY DAVIS COLORS (1-844-341-4780 EXT. 1)
 - c. SIKACOLOR U33 "HAMPSHIRE RED" AS MANUFACTURED BY SIKA CORPORATION (1-201-933-8800)
- C. COLORED CONCRETE WILL BE AN INTEGRAL COLORING APPLICATION, WITH COLORING ADDITIVES MIXED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS. MIX UNTIL COLOR ADDITIVES ARE UNIFORMLY DISPERSED THROUGHOUT MIXTURE. COLOR SHALL BE UNIFORM THROUGHOUT THE CONCRETE.
- D. CURING COMPOUND FOR COLORED CONCRETE SHALL COMPLY WITH ASTM C309 AND BE APPROVED BY COLOR ADDITIVE MANUFACTURER FOR USE WITH COLORED CONCRETE. PROVIDE JS CLEAR COAT SEALER OR APPROVED EQUAL ON ALL SURFACES IN MATCHING COLOR.
- E. ADMIXTURES: DO NOT USE CALCIUM CHLORIDE ADMIXTURES.

CONSTRUCTION REQUIREMENTS:

- A. PROVIDE ONE FIELD SAMPLE OF THE COLOR SPECIFIED FOR APPROVAL BY THE ENGINEER BEFORE BEGINNING WORK. THE SAMPLE SHALL BE 4'x8' MINIMUM IN SIZE AND BE CONSTRUCTED USING THE SAME TECHNIQUE AND MATERIALS INTENDED FOR THE FINAL PAVED SURFACE.
- B. PREPARE SUBGRADE AND INSTALL COLORED CONCRETE IN ACCORDANCE WITH THE PLANS AND SECTION 452 OF THE ODOT C&MS, EXCEPT AS NOTED HEREIN.
- C. CURING: APPLY CURING COMPOUND FOR COLORED CONCRETE IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS. APPLY CURING COMPOUND AT CONSISTENT TIME FOR EACH POUR TO MAINTAIN CLOSE COLOR CONSISTENCY.
- D. PROTECT ADJACENT FINISHED SURFACES FROM SPLATTERS.
- E. DO NOT ADD WATER TO CONCRETE AT JOB SITE, FOG OR SPRAY SURFACE WITH WATER, OR PUT INTO PUMPS OR ONTO TOOLS OR BROOMS.
- F. DO NOT APPLY COLOR ADDITIVES MEANT FOR INTEGRAL COLORING TO SURFACE OF CONCRETE.
- G. TRANSVERSE CONCRETE JOINTS SHALL BE SAWCUT AT 10' INTERVALS MEASURED PERPENDICULAR TO THE CENTERLINE OF THE ROAD TO A MINIMUM OF 2" DEPTH. DOWELS ARE NOT REQUIRED AT THE JOINTS.

PAYMENT WILL INCLUDE THE COST OF FURNISHING AND PLACING ALL OF THE MATERIALS, FINISHING, AND TESTING. ODOT WILL PAY FOR ACCEPTED QUANTITIES AT THE CONTRACT PRICE PER SQUARE YARD FOR ITEM 452 - 9" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC 1P, AS PER PLAN AND FOR ITEM 452 - 6" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC 1P, AS PER PLAN.

ITEM 609 - COMBINATION CURB & GUTTER, TYPE 2, AS PER PLAN

ALL CURBING FOR THIS PROJECT SHALL CONFORM TO ITEM 609 OF THE CURRENT ODOT CMS AND TO STANDARD DRAWING BP-5.1 (SEE TYPICAL SECTIONS) EXCEPT THAT THE CURB SHALL BE DROPPED TO 2".

ITEM SPECIAL - FILTER FABRIC, HEAVY DUTY
ITEM 203 - ROADWAY MISC.: #4 WASHED LANDSCAPE GRAVEL, (T = 4")
PROVIDE #4 SIZE AGGREGATE IN ACCORDANCE WITH C&MS 703 AND TABLE 703-01-1 THAT HAS BEEN WASHED TO REMOVE DIRT AND DEBRIS. PLACE THE MATERIAL OVER THE FILTER FABRIC TO A DEPTH OF 4" THICK AND RAKE THE GRAVEL LEVEL TO ENSURE EVEN DEPTH.

PAVEMENT RESURFACING

RESURFACING OF THE ROADWAY BETWEEN STATION 151+50.00 TO 164+21.64 SHALL BE COMPLETED WITH THE PAVEMENT BUILD UP SHOWN ON TYPICAL SECTIONS SHEET P.9. THIS WORK IS NOT SHOWN IN PLANS AND CROSS SECTIONS.

THE FOLLOWING QUANTITIES HAVE BEEN PROVIDED FOR THE PAVEMENT RESURFACING OF THE ROADWAY BETWEEN STA. 151+50.00 TO 164+21.64

ITEM 897 - PAVEMENT PLANING, ASPHALT CONCRETE, CLASS A (T=1 1/4")	8455 SY
ITEM 424 - FINE GRADED POLYMER ASPHALT CONCRETE, TYPE B, (448) (T=1 1/4")	294 CY
ITEM 407 - NON-TRACKING TACK COAT	677 GAL
ITEM 611 - CATCH BASIN ADJUSTED TO GRADE	9 EACH
ITEM 638 - VALVE BOX ADJUSTED TO GRADE	1 EACH
ITEM 623 - MONUMENT ASSEMBLY ADJUSTED TO GRADE	1 EACH

ENDANGERED SPECIES HABITAT

INDIANA BAT/NORTHERN LONG-EARED BAT/TRI-COLORED BAT: THE PROJECT SITE IS LOCATED WITHIN THE KNOWN HABITAT RANGES OF THE FEDERALLY LISTED AND PROTECTED INDIANA BAT, NORTHERN LONG-EARED BAT AND TRI-COLORED BAT. NO TREES SHALL BE REMOVED AT THIS LOCATION 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. 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.

ITEM SPECIAL - RESTORE TIMBER AND MULCH

RESTORE THE TIMBER AND MULCH AROUND THE TOWNSHIP SIGN AT STA. 137+51.86 OF Ȣ CONST. SR-46 AFTER THE PIPE INSTALLATION, AND RESTORE THE TIMBER AND MULCH AROUND THE BUSINESS SIGN AT STA. 164+17.35 OF Ȣ CONST. SR-46 AFTER CONSTRUCTION.

ALL MATERIALS, LABOR, EQUIPMENT, TOOLS, AND INCIDENTALS NECESSARY TO COMPLETE THIS WORK SHALL BE INCLUDED IN THE LUMP SUM BID ITEM.

WETLAND AVOIDANCE

NO EXCAVATION, GRADING, OR FILLING OPERATIONS SHALL BE PERFORMED IN WETLAND 1 OR WETLAND 5 DELINEATED BEYOND THE PROJECT CONSTRUCTION LIMITS AND DEPICTED IN THE PROJECT PLANS AND/OR THE ECOLOGICAL RESOURCES MAPPING AVAILABLE FOR VIEWING AT THE ODOT DISTRICT 4 OFFICE LOCATED AT 2088 SOUTH ARLINGTON ROAD, AKRON, OHIO. A FILTER FABRIC FENCE AND TEMPORARY CONSTRUCTION FENCE PER SUPPLEMENTAL SPECIFICATION 832 SHALL BE INSTALLED, MAINTAINING A 1 FOOT BUFFER BETWEEN THE FENCE AND THE WETLAND BOUNDARY PRIOR TO THE START OF ANY CONSTRUCTION ACTIVITIES AND SHALL BE MAINTAINED BY THE CONTRACTOR THROUGHOUT PROJECT CONSTRUCTION. UNDER NO CIRCUMSTANCES SHALL THE CONTRACTOR STORE EQUIPMENT (LIFT, BACKHOE, EARTH MOVING EQUIPMENT, ETC.) AND/OR MATERIALS IN ANY WETLANDS, ETC. ODOT CONSTRUCTION AND MATERIALS SPECIFICATIONS SECTION 107.10 (PROTECTION OF PROPERTY) PROHIBIT THE CONTRACTOR FROM CREATING STAGING AREAS NEAR STREAMS AND/OR WETLANDS.

ITEM SPECIAL – SURVEY CONTROL VERIFICATION

THE CONTRACTOR SHALL PERFORM THIS WORK TO VERIFY THE PROVIDED SURVEY CONTROL. THE CONTRACTOR WILL PERFORM THE VERIFICATION USING ONE OF THE TWO METHODS BELOW DEPENDENT UPON THE CONTRACTOR’S CHOSEN MEANS OF SURVEY CONTROL TO BE USED ON THE PROJECT. THE WORK SHALL BE PERFORMED UNDER THE DIRECT SUPERVISION OF AN OHIO LICENSED SURVEYOR.

- 1) IF USING GPS DEVICES TO ESTABLISH AND OR PROVIDE SUPPLEMENTAL HORIZONTAL AND VERTICAL SURVEY CONTROL
 - a. LOCATE VERTICAL CONTROL POINTS PROVIDED IN THE PLANS AND PERFORM A DIFFERENTIAL LEVEL CIRCUIT.
 - b. PERFORM A SITE CALIBRATION UTILIZING THE AVAILABLE HORIZONTAL AND VERTICAL CONTROL POINTS PROVIDED IN THE PLAN.
 - c. PROVIDE A REPORT, SIGNED BY AN OHIO LICENSED SURVEYOR, TO THE PROJECT ENGINEER COMPARING THE OBSERVED DATA TO THE PLAN DATA ALONG WITH A NARRATIVE DETAILING ANY DISCREPANCIES FOUND.
- 2) IF USING CONVENTIONAL SURVEY INSTRUMENTATION TO ESTABLISH AND OR PROVIDE SUPPLEMENTAL HORIZONTAL AND VERTICAL SURVEY CONTROL
 - a. LOCATE VERTICAL CONTROL POINTS PROVIDED IN THE PLANS AND PERFORM A DIFFERENTIAL LEVEL CIRCUIT.
 - b. LOCATE AND OBSERVE ANGLE AND DISTANCE TO ALL AVAILABLE HORIZONTAL CONTROL POINTS PROVIDE IN THE PLAN
 - c. PROVIDE A REPORT, SIGNED BY AN OHIO LICENSED SURVEYOR, TO THE PROJECT ENGINEER COMPARING THE OBSERVED DATA TO THE PLAN DATA ALONG WITH A NARRATIVE DETAILING ANY DISCREPANCIES FOUND.

ALL MATERIALS, LABOR, EQUIPMENT, TOOLS, AND INCIDENTALS NECESSARY TO COMPLETE THIS WORK SHALL BE INCLUDED IN THE LUMP SUM BID ITEM.

STREAM AVOIDANCE

NO FILL MATERIAL (INCLUDING ROCK, COFFERDAMS, ETC.) SHALL BE PLACED BELOW THE ORDINARY HIGH-WATER MARK (OHWM) OF STREAM 1 DEPICTED IN THE PROJECT PLANS AND/OR THE ECOLOGICAL RESOURCES MAPPING AVAILABLE FOR VIEWING AT THE ODOT DISTRICT 4 OFFICE LOCATED AT 2088 SOUTH ARLINGTON ROAD, AKRON, OHIO. UNDER NO CIRCUMSTANCES SHALL ANY MECHANICAL EQUIPMENT (LIFT, SCAFFOLDING, BACKHOE, EARTH MOVING EQUIPMENT, ETC.) AND/OR MATERIALS ENTER STREAM 1. THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO PREVENT DEMOLITION DEBRIS, CONSTRUCTION MATERIALS, WASTE MATERIALS, WATER CHEMICALS OR OTHER SUBSTANCES USED TO CONSTRUCT THE PROJECT FROM ENTERING THIS STREAM.



ITEM SPECIAL - AS-BUILT CONSTRUCTION PLANS

PRIOR TO FINAL ACCEPTANCE OF THE WORK, THE CONTRACTOR SHALL FURNISH THE DEPARTMENT FORMAL AS-BUILT CONSTRUCTION PLANS. THE FORMAL AS-BUILT CONSTRUCTION PLANS SHALL INCLUDE ALL RED-LINED CHANGES. RED-LINE CHANGE SHALL BE DENOTED UTILIZING CLOUDING IN MICROSTATION (OR OTHER CAD SOFTWARE) OR CLOUDING IN PDF EDITING SOFTWARE. THE AS-BUILT CONSTRUCTION PLANS SHALL HAVE A SIGNED VERIFICATION ON THE TITLE SHEET FROM THE CONTRACTOR INDICATING THAT ALL RED-LINED AND FIELD CHANGES HAVE BEEN INCORPORATED INTO AS-BUILT CONSTRUCTION PLANS. THE CONTRACTOR’S VERIFICATION STATEMENT INDICATES ALL KNOWN FIELD MODIFICATIONS MADE HAVE BEEN INCLUDED IN THE FORMAL AS-BUILT CONSTRUCTION PLANS. THE CONTRACTOR’S VERIFICATION STATEMENT SHALL BE SIGNED BY THE CONTRACTOR’S PROJECT MANAGER (OR ACCEPTABLE REPRESENTATIVE). IN ADDITION TO THE INFORMATION SHOWN ON THE CONSTRUCTION PLANS, THE ASBUILT CONSTRUCTION PLANS SHALL SHOW THE FOLLOWING:

1. ALL DEVIATIONS FROM THE ORIGINAL APPROVED CONSTRUCTION PLANS WHICH RESULT IN A CHANGE OF LOCATION, MATERIAL, TYPE OR SIZE OF WORK.
2. ANY UTILITIES, PIPES, WELLHEADS, ABANDONED PAVEMENTS, FOUNDATIONS OR OTHER MAJOR OBSTRUCTIONS DISCOVERED AND REMAINING IN PLACE WHICH ARE NOT SHOWN, OR DO NOT CONFORM TO LOCATIONS OR DEPTHS SHOWN IN THE PLANS. UNDERGROUND FEATURES SHALL BE SHOWN AND LABELED ON THE AS-BUILT CONSTRUCTION PLANS IN TERMS OF STATION, OFFSET AND ELEVATION.
3. THE FINAL OPTION AND SPECIFICATION NUMBER SELECTED FOR THOSE ITEMS WHICH ALLOW SEVERAL MATERIAL OPTIONS UNDER THE SPECIFICATION (E.G., CONDUIT).
4. CHANGES TO THE PAY ITEMS AND FINAL QUANTITIES AS PAID SHALL BE SHOWN ON THE GENERAL SUMMARY AND SUBSUMMARIES.
5. ADDITIONAL PLAN SHEETS MAY BE NEEDED IF NECESSARY TO SHOW WORK NOT INCLUDED IN THE CONSTRUCTION PLANS. IF ADDITIONAL PLAN SHEETS ARE NEEDED, THEY ARE REQUIRED TO BE PREPARED IN CONFORMANCE WITH THE LOCATION AND DESIGN MANUAL, VOLUME 3, SECTION 1200 - PLAN PREPARATION.

NOTATION SHALL ALSO BE MADE OF LOCATIONS AND THE EXTENT OF USE OF MATERIALS, OTHER THAN SOIL, FOR EMBANKMENT CONSTRUCTION (ROCK, BROKEN CONCRETE WITHOUT REINFORCING STEEL, ETC.). THE PLAN INDEX SHALL SHOW THE PLAN SHEETS WHICH HAVE CHANGES APPEARING ON THEM. TWO COPIES OF THE AS-BUILT CONSTRUCTION PLANS SHALL BE DELIVERED TO THE PROJECT ENGINEER FOR APPROVAL UPON COMPLETION OF THE PHYSICAL WORK BUT PRIOR TO THE REQUEST FOR FINAL PAYMENT. AFTER THE DEPARTMENT HAS APPROVED THE AS-BUILT CONSTRUCTION PLANS, THE ASSOCIATED ELECTRONIC FILES SHALL BE DELIVERED TO THE DISTRICT CAPITAL PROGRAMS ADMINISTRATOR. ACCEPTANCE OF THESE PLANS AND DELIVERY OF THE ASSOCIATED ELECTRONIC FILES IS REQUIRED PRIOR TO THE WORK BEING ACCEPTED AND THE FINAL ESTIMATE APPROVED.

PAYMENT FOR ALL THE ABOVE SHALL BE LUMP SUM UPON PROPER EXECUTION OF ALL WORK OF THIS ITEM AS DETERMINED BY THE PROJECT ENGINEER.

DESIGN AGENCY	
 4215 North Ave Suite K-230 Columbus, OH 43219	
DESIGNER	
SLF	
REVIEWER	
BD 06/12/26	
PROJECT ID	
120083	
SHEET	TOTAL
P.15	182

SHEET NUM.														PART.	ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
OFFICE CALCS	P.12	P.13	P.14	P.15	P.81	P.82	P.83	P.84	P.85	P.86	P.87	P.162	P.168	01/SAE						
																			ROADWAY	
									4					LS	201	11000	LS		CLEARING AND GRUBBING	
					10,909	535								4	202	20010	4	EACH	HEADWALL REMOVED	
					179									11,444	202	23000	11,444	SY	PAVEMENT REMOVED	
					4,305	405								179	202	32000	179	FT	CURB REMOVED	
														4,710	202	32500	4,710	FT	CURB AND GUTTER REMOVED	
									1,220					1,220	202	35100	1,220	FT	PIPE REMOVED, 24" DIAMETER AND UNDER	
									148					148	202	35200	148	FT	PIPE REMOVED, OVER 24" DIAMETER	
				2					2					2	202	53100	2	EACH	MAILBOX REMOVED	
									5					5	202	58000	5	EACH	MANHOLE REMOVED	
									12					12	202	58100	12	EACH	CATCH BASIN REMOVED	
							3,323							3,323	203	10000	3,323	CY	EXCAVATION	
							10,132							10,132	203	20000	10,132	CY	EMBANKMENT	
12,825					13									13	203	98000	13	CY	ROADWAY, MISC.: #4 WASHED LANDSCAPE GRAVEL, (T=4")	P.15
														12,825	204	10000	12,825	SY	SUBGRADE COMPACTION	P.14
							989							989	204	13001	989	CY	EXCAVATION OF SUBGRADE, AS PER PLAN	P.14
							702							702	204	20001	702	CY	EMBANKMENT, AS PER PLAN	P.14
	13													13	204	45000	13	HOUR	PROOF ROLLING	P.14
	3													3	623	38500	3	EACH	MONUMENT ASSEMBLY, TYPE C	P.12
				1	1									2	623	39500	2	EACH	MONUMENT ASSEMBLY ADJUSTED TO GRADE	
				119										119	SPECIAL	69012000	119	SY	FILTER FABRIC, HEAVY-DUTY	P.15
		4												4	SPECIAL	69050000	4	EACH	MAILBOX SUPPORT	P.13
				LS										LS	SPECIAL	69091000	LS		AS-BUILT CONSTRUCTION PLANS	P.15
					1	1								2	SPECIAL	69098000	2	EACH	RESTORE TIMBER AND MULCH	P.15
				LS										LS	SPECIAL	69098400	LS		SURVEY CONTROL VERIFICATION	P.15
																			EROSION CONTROL	
										6				6	601	21050	6	SY	TIED CONCRETE BLOCK MAT WITH TYPE 1 UNDERLAYMENT	
								8	20					28	601	21060	28	SY	TIED CONCRETE BLOCK MAT WITH TYPE 2 UNDERLAYMENT	
			2					5						7	601	32200	7	CY	ROCK CHANNEL PROTECTION, TYPE C WITH FILTER	
	1,328													1,328	659	00300	1,328	CY	TOPSOIL	
	11,964													11,964	659	10000	11,964	SY	SEEDING AND MULCHING	
	598													598	659	14000	598	SY	REPAIR SEEDING AND MULCHING	
	598													598	659	15000	598	SY	INTER-SEEDING	
	1.67													1.67	659	20000	1.67	TON	COMMERCIAL FERTILIZER	
	2.47													2.47	659	31000	2.47	ACRE	LIME	
	66													66	659	35000	66	MGAL	WATER	
									945					945	670	00720	945	SY	DITCH EROSION PROTECTION MAT, TYPE B	
											LS			LS	832	15000	LS		STORM WATER POLLUTION PREVENTION PLAN	
											LS			LS	832	15002	LS		STORM WATER POLLUTION PREVENTION INSPECTIONS	
											LS			LS	832	15010	LS		STORM WATER POLLUTION PREVENTION INSPECTION SOFTWARE	
														68,041	832	30000	68,041	EACH	EROSION CONTROL	
																			DRAINAGE	
								6						6	602	20000	6	CY	CONCRETE MASONRY	
										367				367	605	13410	367	FT	6" UNCLASSIFIED PIPE UNDERDRAINS WITH GEOTEXTILE FABRIC	
										5,146				5,146	605	14020	5,146	FT	6" BASE PIPE UNDERDRAINS WITH GEOTEXTILE FABRIC	
												20	30	50	605	31101	50	FT	AGGREGATE DRAINS, AS PER PLAN	P.160A,167
								10						10	611	00200	10	FT	4" CONDUIT, TYPE C	
												80	120	200	611	00401	200	FT	4" CONDUIT, TYPE E, AS PER PLAN	P.160A,167
										270				270	611	00510	270	FT	6" CONDUIT, TYPE F FOR UNDERDRAIN OUTLETS	
				50										50	611	00900	50	FT	6" CONDUIT, TYPE B	
				100										100	611	01400	100	FT	6" CONDUIT, TYPE E	
				10										10	611	01500	10	FT	6" CONDUIT, TYPE F	
								746						746	611	04400	746	FT	12" CONDUIT, TYPE B	
								40						40	611	04600	40	FT	12" CONDUIT, TYPE C	
								262						262	611	04900	262	FT	12" CONDUIT, TYPE D	
								82						82	611	05900	82	FT	15" CONDUIT, TYPE B	
								58						58	611	07400	58	FT	18" CONDUIT, TYPE B	
								43						43	611	07900	43	FT	18" CONDUIT, TYPE D	

GENERAL SUMMARY

DESIGN AGENCY



4215 North Ave Suite K-230
Columbus, OH 43219

DESIGNER

SLF

REVIEWER

BD 06/12/26

PROJECT ID

120083

SHEET

P.77

TOTAL

182

SHEET NUM.													PART.	ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
P.14	P.86	P.147	P.148	P.149	P.150	P.160	P.161	P.162	P.168				01/SAE						
																		TRAFFIC CONTROL	
	3			119	87								3	620	00501	3	EACH	DELINEATOR, POST GROUND MOUNTED, AS PER PLAN	P.14
61													206	621	00100	206	EACH	RPM	
													61	621	00101	61	EACH	RPM, AS PER PLAN	P.14
61				17	22								39	621	54000	39	EACH	RAISED PAVEMENT MARKER REMOVED	
													61	621	54001	61	EACH	RAISED PAVEMENT MARKER REMOVED, AS PER PLAN	P.14
		435	112										547	630	03100	547	FT	GROUND MOUNTED SUPPORT, NO. 3 POST	
		17	2										19	630	08600	19	EACH	SIGN POST REFLECTOR	
		2						1					2	630	72520	2	EACH	OVERHEAD SIGN SUPPORT, TYPE TC-16.22, DESIGN 7	
		6											7	630	75000	7	EACH	SIGN ATTACHMENT ASSEMBLY	
		261	63					14					338	630	80100	338	SF	SIGN, FLAT SHEET	
		2											2	630	84510	2	EACH	RIGID OVERHEAD SIGN SUPPORT FOUNDATION	
		12	1										13	630	84900	13	EACH	REMOVAL OF GROUND MOUNTED SIGN	
								1					1	630	86321	1	EACH	REMOVAL OF STRUCTURE MOUNTED SIGN AND REERECTION, AS PER PLAN	P.160A
		2	5					1					8	630	87400	8	EACH	REMOVAL OF OVERHEAD MOUNTED SIGN	
		3											3	630	87500	3	EACH	REMOVAL OF POLE MOUNTED SIGN	
		1	1										2	630	89704	2	EACH	REMOVAL OF OVERHEAD SIGN SUPPORT, SINGLE ARM CANTILEVER TYPE	
				0.73									0.73	646	10010	0.73	MILE	EDGE LINE, 6"	
0.11				0.01	0.04								0.05	646	10110	0.05	MILE	LANE LINE, 6"	
													0.11	646	10111	0.11	MILE	LANE LINE, 6", AS PER PLAN	P.14
				0.28	0.57								0.85	646	10200	0.85	MILE	CENTER LINE	
0.47													0.47	646	10201	0.47	MILE	CENTER LINE, AS PER PLAN	P.14
				1,087	111								1,198	646	10310	1,198	FT	CHANNELIZING LINE, 12"	
215													215	646	10311	215	FT	CHANNELIZING LINE, 12", AS PER PLAN	P.14
								12					12	646	10400	12	FT	STOP LINE	
24													24	646	10401	24	FT	STOP LINE, AS PER PLAN	P.14
				138	311								449	646	10600	449	FT	TRANSVERSE/DIAGONAL LINE	
					46								46	646	10620	46	FT	CHEVRON MARKING	
				9	15			1					25	646	20300	25	EACH	LANE ARROW	
6													6	646	20301	6	EACH	LANE ARROW, AS PER PLAN	P.14
				2									2	646	20350	2	EACH	LANE REDUCTION ARROW	
				410	127								537	646	20504	537	FT	DOTTED LINE, 6"	
					191								191	646	20800	191	FT	YIELD LINE	
																		TRAFFIC SIGNALS	
								37					37	625	25500	37	FT	CONDUIT, 3", 725.04	
								20					20	625	25600	20	FT	CONDUIT, 4", 725.04	
								219					219	625	25902	219	FT	CONDUIT, JACKED OR DRILLED, 725.04, 4"	
								45					45	625	29010	45	FT	TRENCH, 30" DEEP	
								4					4	625	30700	4	EACH	PULL BOX, 725.08, 18"	
								5					5	625	32000	5	EACH	GROUND ROD	
								45					45	625	36011	45	FT	UNDERGROUND WARNING/MARKING TAPE, AS PER PLAN	P.159
								1					1	625	76000	1	EACH	ARC FLASH CALCULATIONS AND LABEL, CONTROL CENTER	
								9					9	632	05006	9	EACH	VEHICULAR SIGNAL HEAD, (LED), 3-SECTION, 12" LENS, 1-WAY, POLYCARBONATE	
								1					1	632	05086	1	EACH	VEHICULAR SIGNAL HEAD, (LED), 5-SECTION, 12" LENS, 1-WAY, POLYCARBONATE	
								10					10	632	25000	10	EACH	COVERING OF VEHICULAR SIGNAL HEAD	
								1,809					1,809	632	40700	1,809	FT	SIGNAL CABLE, 7 CONDUCTOR, NO. 14 AWG	
								4					4	632	64010	4	EACH	SIGNAL SUPPORT FOUNDATION	
								1					1	632	70001	1	EACH	POWER SERVICE, AS PER PLAN	P.159
								2					2	632	72110	2	EACH	SIGNAL SUPPORT, TYPE TC-81.22, DESIGN 4	
								2					2	632	72130	2	EACH	SIGNAL SUPPORT, TYPE TC-81.22, DESIGN 12	
								1	1				2	632	90100	2	EACH	REMOVAL OF TRAFFIC SIGNAL INSTALLATION	
								1					1	633	65511	1	EACH	CABINET, TYPE TS-2, AS PER PLAN	P.159
								1					1	633	67101	1	EACH	CABINET FOUNDATION, AS PER PLAN	P.159
								1					1	633	67201	1	EACH	CONTROLLER WORK PAD, AS PER PLAN	P.159
								1					1	633	75001	1	EACH	UNINTERRUPTIBLE POWER SUPPLY (UPS), 1000 WATT, AS PER PLAN	P.159
						1	1						1	809	65990	1	EACH	ITS DEVICE, MISC.:REUSE COMMUNICATION DEVICE	P.160
								2					2	809	69001	2	EACH	ADVANCE RADAR DETECTION, AS PER PLAN	P.159
								3					3	809	69101	3	EACH	STOP LINE RADAR DETECTION, AS PER PLAN	P.159
								1					1	809	69123	1	EACH	ATC CONTROLLER, AS PER PLAN	P.160

GENERAL SUMMARY

DESIGN AGENCY



4215 North Ave Suite K-230
Columbus, OH 43219

DESIGNER

SLF

REVIEWER

BD 09/28/26

PROJECT ID

120083

SHEET

P.79

TOTAL

182

EARTHWORK SUMMARY					
PAGE	STATION	STATION	203	203	659
			EXC.	EMB.	SEED.
			CY	CY	SY
SR-46 SOUTH LEG					
P.102	134+92	135+00	1	0	13
	135+00	135+10	2	4	27
P.103	135+10	135+50	10	40	162
	135+50	136+00	10	64	219
	136+00	136+50	14	69	214
P.104	136+50	137+00	33	75	228
	137+00	137+50	31	79	186
	137+50	138+00	18	102	194
P.105	138+00	138+50	18	145	261
	138+50	139+00	27	143	200
P.106	139+00	139+50	48	90	78
	139+50	140+00	83	48	167
P.107	140+00	140+50	92	39	28
	140+50	141+00	45	45	5
P.108	141+00	141+50	98	48	13
	141+50	142+00	40	52	122
P.109	142+00	142+50	30	54	54
P.110	142+50	143+00	72	15	74
	143+00	143+50	114	19	122
P.111	143+50	144+00	93	128	336
	144+00	144+50	226	324	369
SR-46 NORTH LEG					
P.112	147+00	147+50	8	195	136
	147+50	148+00	13	87	97
	148+00	148+50	38	23	69
P.113	148+50	149+00	71	13	50
	149+00	149+50	44	1	31
	149+50	150+00	5	0	6
P.114	150+00	150+50	12	0	3
	150+50	151+00	19	1	17
	151+00	151+50	17	2	28
NEW RD WEST LEG					
P.115	3+50	4+00	0	0	0
	4+00	4+50	22	0	58
P.116	4+50	5+00	50	3	147
	5+00	5+50	52	13	186
P.117	5+50	6+00	39	40	200
	6+00	6+50	21	117	181
	6+50	7+00	13	256	169
P.118	7+00	7+50	39	423	313
	7+50	8+00	13	558	336
P.119	8+00	8+50	37	556	236
	8+50	9+00	56	625	294
SUBTOTAL			1674	4496	5629

ITEM 203 - EXCAVATION & ITEM 203 - EMBANKMENT TOTALS CARRIED TO GENERAL SUMMARY
ITEM 659 - SEEDING & MULCHING TOTAL CARRIED TO GENERAL NOTES

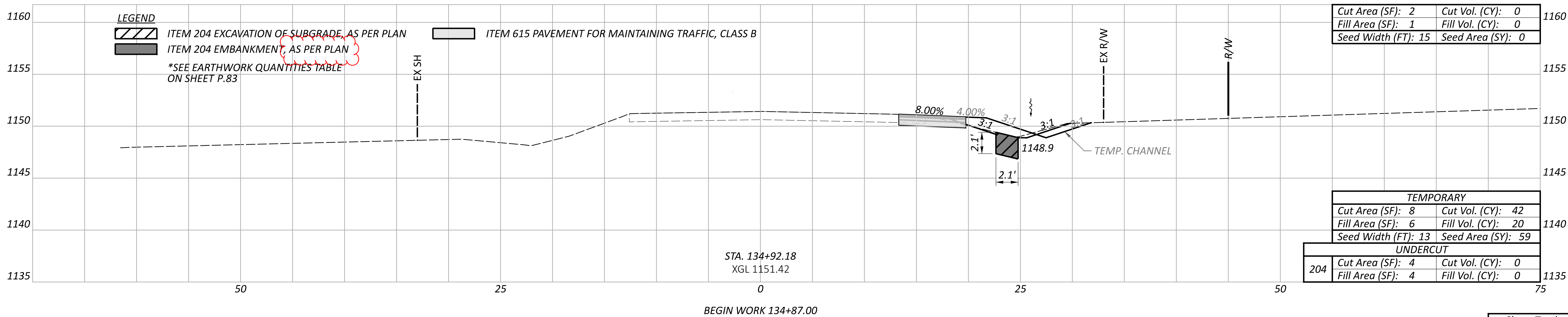
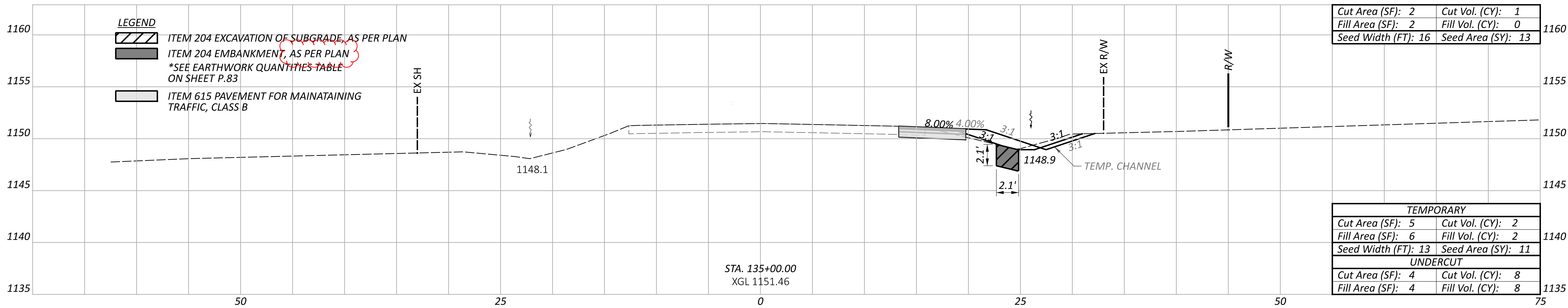
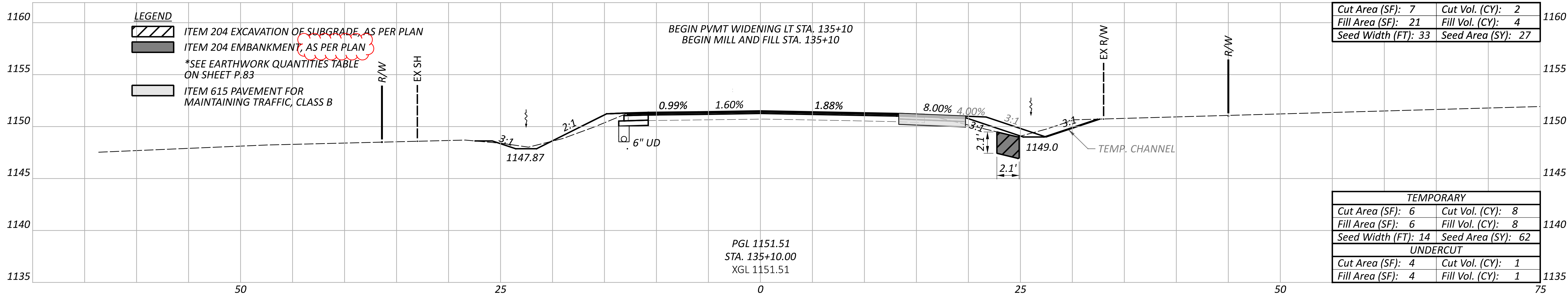
EARTHWORK SUMMARY					
PAGE	STATION	STATION	203	203	659
			EXC.	EMB.	SEED.
			CY	CY	SY
NEW RD EAST LEG					
P.120	11+00	11+50	126	68	367
	11+50	12+00	231	24	394
	12+00	12+50	230	26	392
P.121	12+50	13+00	144	24	253
	13+00	13+50	58	23	111
P.122	13+50	14+00	14	22	64
	14+00	14+50	10	13	39
P.123	14+50	15+00	23	6	56
	15+00	15+50	6	10	78
	15+50	16+00	2	10	72
P.124	16+00	16+50	1	5	50
	16+50	17+00	2	2	28
	17+00	17+50	2	29	19
P.125	17+50	17+80	0	17	5
ROUNDABOUT					
P.126	200+80	201+75	78	793	434
P.126	201+75	202+65	77	665	406
P.127	202+65	203+47	30	423	350
P.126	203+47	200+80	96	619	410
CENTER LANDSCAPE			0	603	227
CREDIT UNION NEW ROAD ACCESS					
	70+19	70+50	3	105	25
	70+50	71+00	39	241	231
	71+00	71+50	80	264	375
	71+50	72+00	105	197	378
	72+00	72+50	162	138	400
	72+50	73+00	119	45	222
	73+00	73+08	3	0	2
CREDIT UNION SR-46 ACCESS					
	1000+33	1000+50	0	50	36
	1000+50	1001+00	2	296	150
	1001+00	1001+50	4	327	194
	1001+50	1002+00	2	367	292
	1002+00	1002+50	0	217	242
	1002+50	1002+65	0	7	33
SUBTOTAL			1649	5636	6335

EARTHWORK SUMMARY					
PAGE	STATION	STATION	204	204	
			EXC. *	EMB. **	
			CY	CY	
UNDERCUT					
SR-46 SOUTH LEG					
P.102	134+92	135+00	8	8	
	135+00	135+10	1	1	
P.103	135+10	135+50	9	9	
	135+50	136+00	25	23	
	136+00	136+50	40	36	
P.104	136+50	137+00	49	44	
	137+00	137+50	44	39	
	137+50	138+00	44	40	
P.105	138+00	138+50	49	46	
	138+50	139+00	41	38	
P.106	139+00	139+50	49	45	
	139+50	140+00	74	50	
P.107	140+00	140+50	80	45	
	140+50	140+91	60	37	
	140+91	141+00	72	46	
P.108	141+00	141+50	65	40	
	141+50	142+00	63	39	
P.109	142+00	142+50	50	31	
P.110	142+50	143+00	17	10	
SR-46 NORTH LEG					
P.113	149+00	149+50	12	3	
	149+50	150+00	23	7	
P.114	150+00	150+50	11	4	
NEW RD WEST LEG					
P.117	6+50	7+00	4	4	
P.118	7+00	7+50	11	11	
	7+50	8+00	15	15	
P.119	8+00	8+50	7	7	
NEW RD EAST LEG					
P.123	15+00	15+50	8	2	
	15+50	16+00	15	5	
P.124	16+00	16+50	15	5	
	16+50	17+00	11	4	
	17+00	17+50	8	4	
P.125	17+50	17+80	9	4	
		</			

*ITEM 204 - EXCAVATION OF SUBGRADE, AS PER PLAN TOTAL CARRIED TO GENERAL SUMMARY
**ITEM 204 - EMBANKMENT, AS PER PLAN TOTAL CARRIED TO GENERAL SUMMARY

EARTHWORK SUMMARY					
PAGE	STATION	STATION	TEMP.	TEMP.	TEMP.
			EXC.	EMB.	SEED.
			CY	CY	SY
TEMPORARY FOR MAINTAINING TRAFFIC					
SR-46 SOUTH LEG					
P.102	133+41	134+92	42	20	59
	134+92	135+00	2	2	11
	135+00	135+10	8	8	62
P.103	135+10	135+50	8	8	62
	135+50	136+00	7	7	64
	136+00	136+50	6	8	56
P.104	136+50	137+00	15	12	75
	137+00	137+50	19	6	58
	137+50	138+00	13	12	58
P.105	138+00	138+50	9	26	89
	138+50	139+00	4	14	44
SR-46 NORTH LEG					
P.112	147+00	147+50	35	0	47
	147+50	148+00	38	0	61
	148+00	148+50	40	0	64
P.113	148+50	149+00	34	0	56
	149+00	149+50	20	0	31
	149+50	150+00	13	5	36
P.114	150+00	150+50	13	6	47
	150+50	151+00	15	3	33
	151+00	151+50	15	2	28
NEW RD EAST LEG					
P.120	11+00	11+50	6	0	8

TEMPORARY QUANTITY TOTALS CARRIED TO MOT GENERAL NOTES



Sheet Totals			SHEET	TOTAL
Seeding	Cut	Fill		
40	3	4	P.102	182

CROSS SECTIONS - SR-46 SOUTH LEG
STA. 134+92.18 TO STA. 135+10.00

DESIGN AGENCY



4215 North Ave Suite K-230
Columbus, OH 43219

DESIGNER

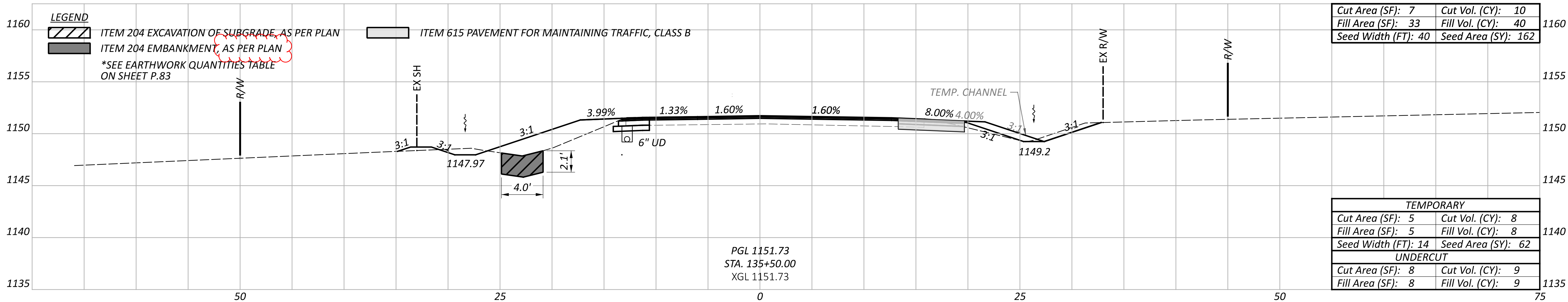
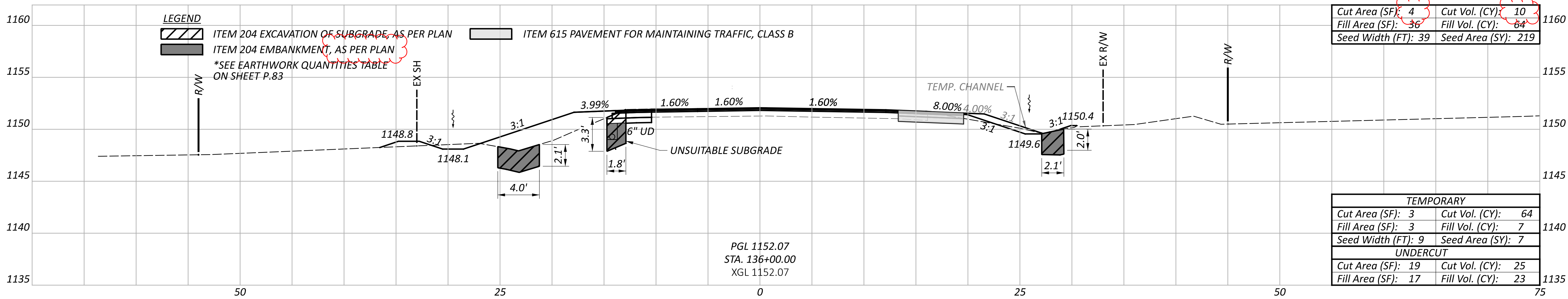
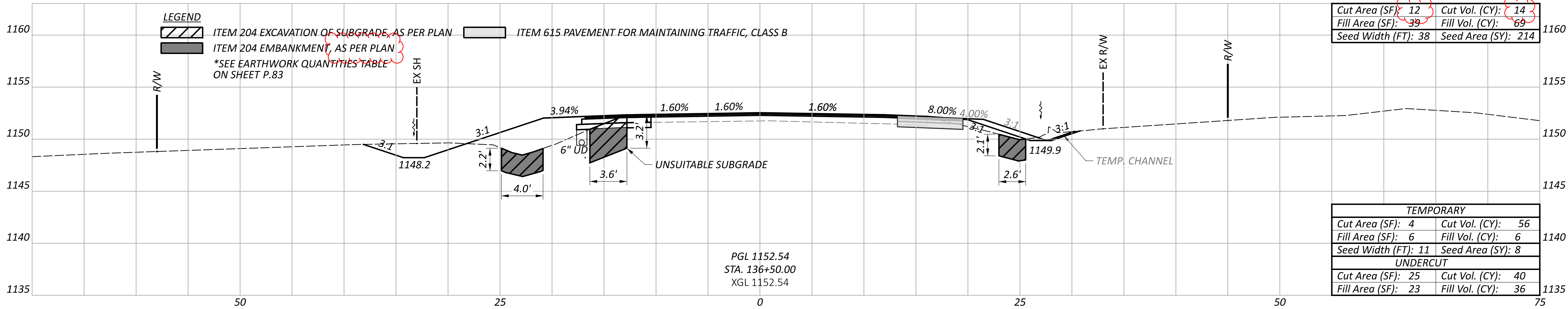
SKG

REVIEWER

BBD 06/12/26

PROJECT ID

120083



CROSS SECTIONS - SR-46 SOUTH LEG
STA. 135+50.00 TO STA. 136+50.00

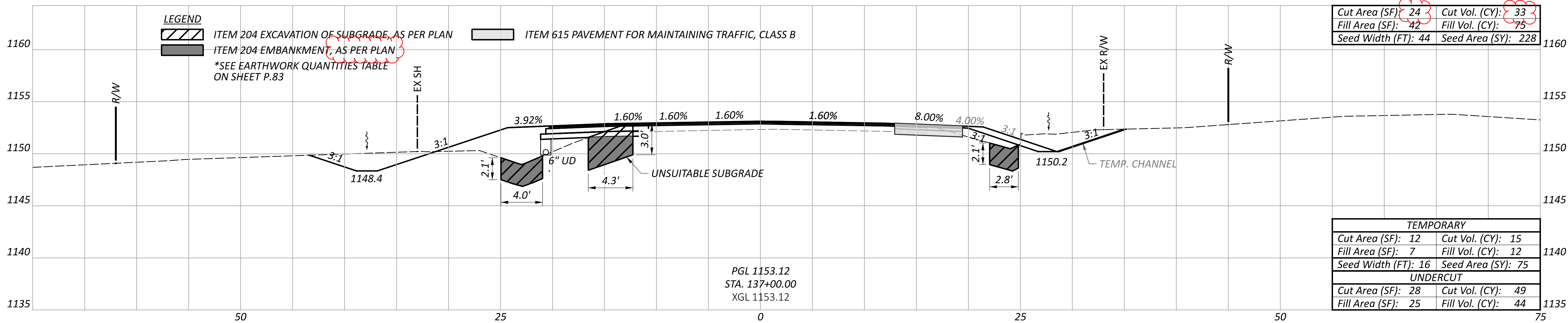
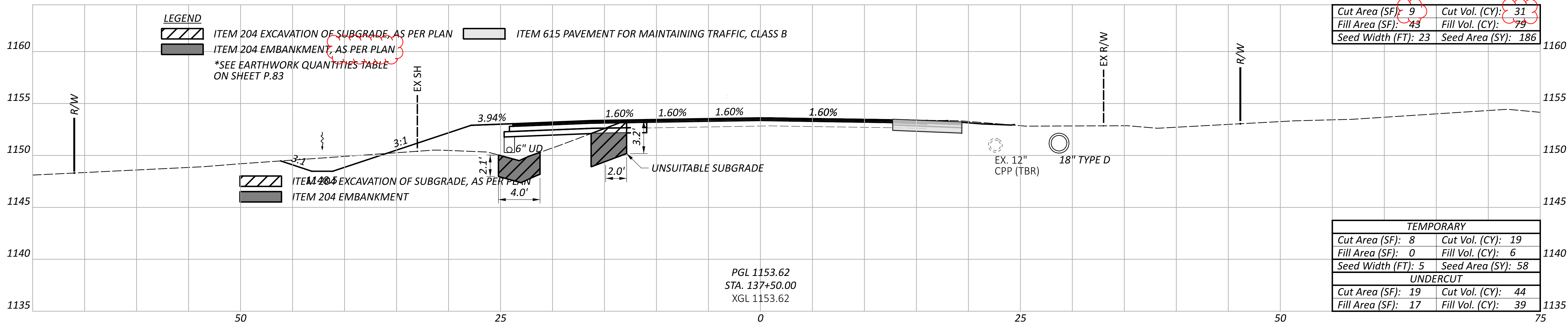
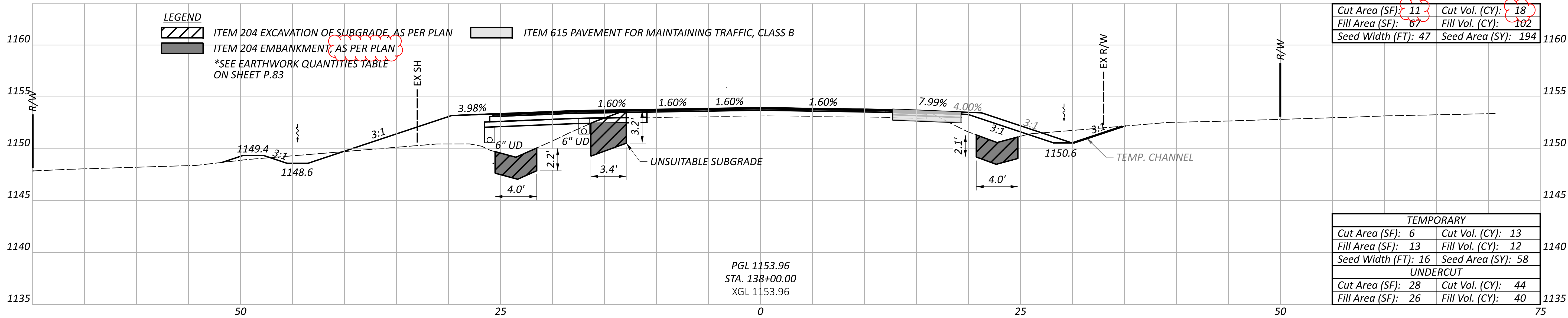


DESIGNER
SKG

REVIEWER
BBD 06/12/26

PROJECT ID
120083

Sheet Totals			SHEET	TOTAL
Seeding	Cut	Fill		
595	34	173	P.103	182



Sheet Totals			SHEET	TOTAL
Seeding	Cut	Fill		
608	82	256	P.104	182

CROSS SECTIONS - SR-46 SOUTH LEG
STA. 137+00.00 TO STA. 138+00.00

DESIGN AGENCY

4215 North Ave Suite K-230
Columbus, OH 43219

DESIGNER

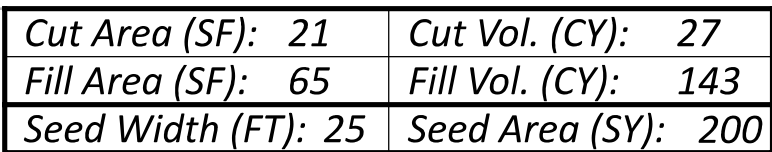
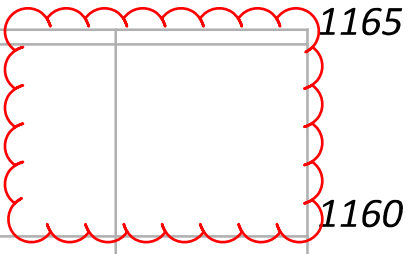
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REVIEWER

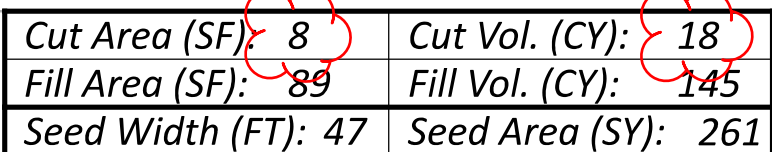
BBD 06/12/26

PROJECT ID

120083



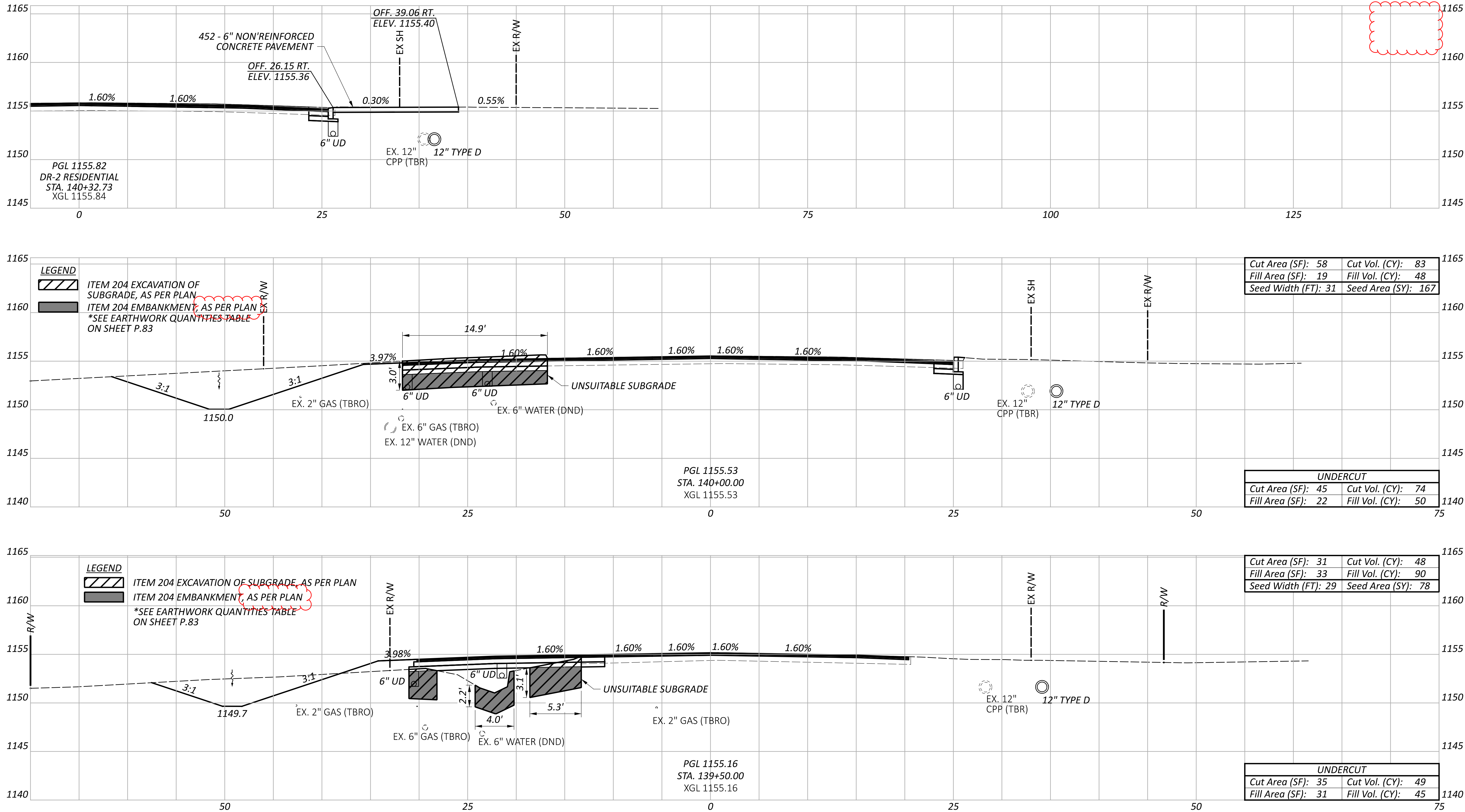
TEMPORARY	
Cut Area (SF): 0	Cut Vol. (CY): 4
Fill Area (SF): 0	Fill Vol. (CY): 14
Seed Width (FT): 0	Seed Area (SY): 44
UNDERCUT	
Cut Area (SF): 18	Cut Vol. (CY): 41
Fill Area (SF): 17	Fill Vol. (CY): 38



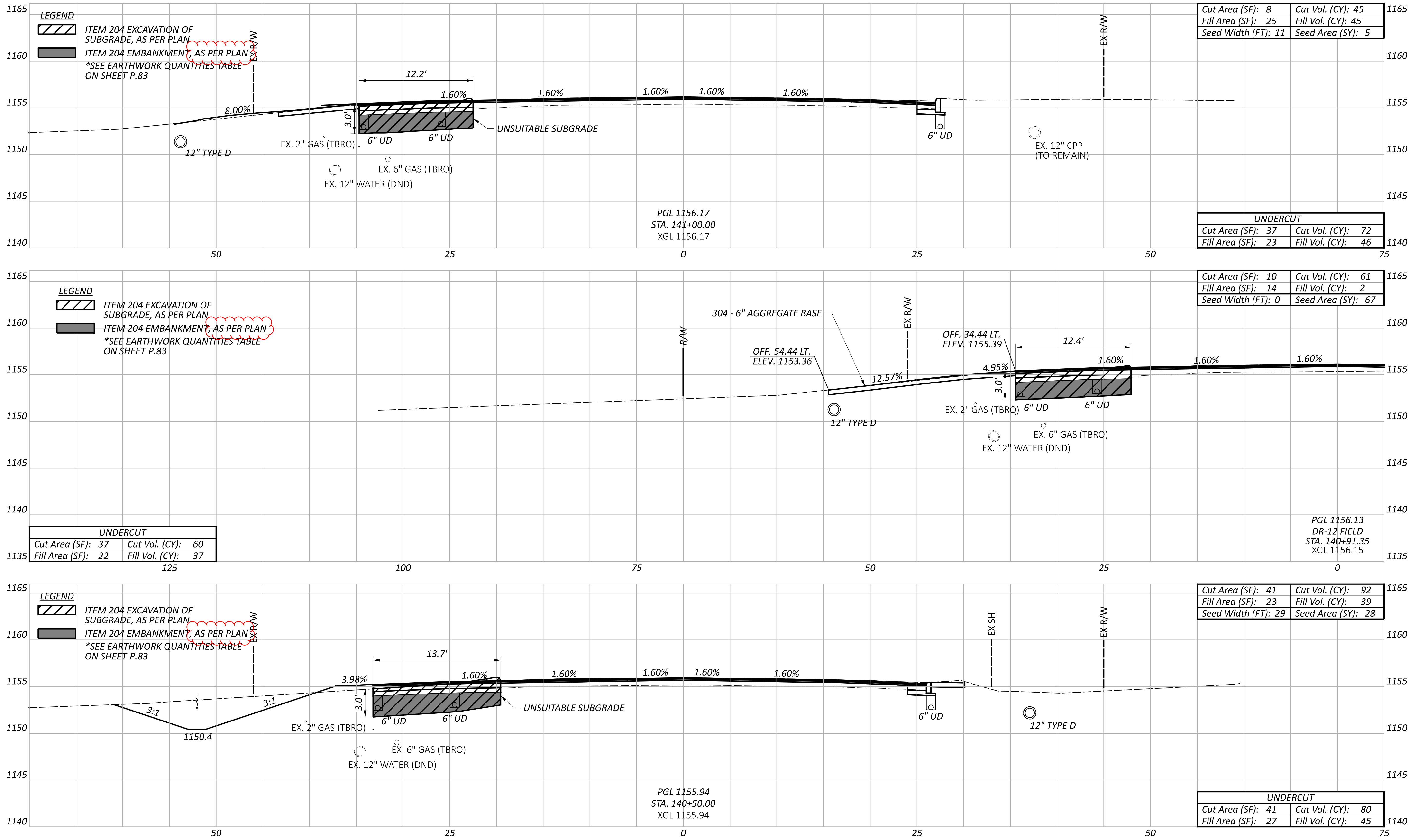
TEMPORARY	
Cut Area (SF): 4	Cut Vol. (CY): 9
Fill Area (SF): 15	Fill Vol. (CY): 26
Seed Width (FT): 16	Seed Area (SY): 89
UNDERCUT	
Cut Area (SF): 26	Cut Vol. (CY): 49
Fill Area (SF): 24	Fill Vol. (CY): 46

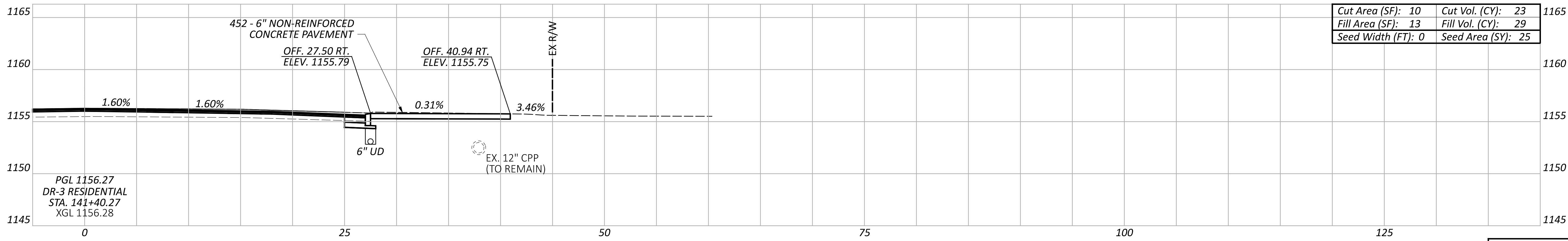
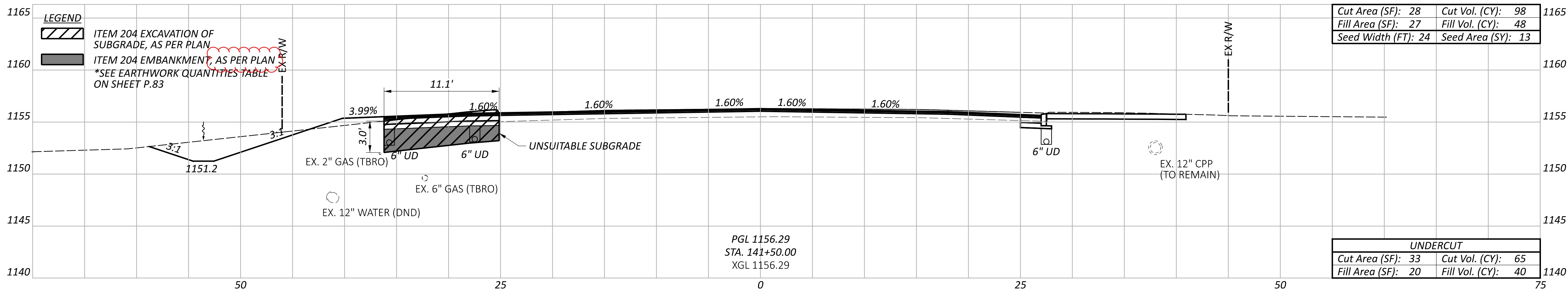
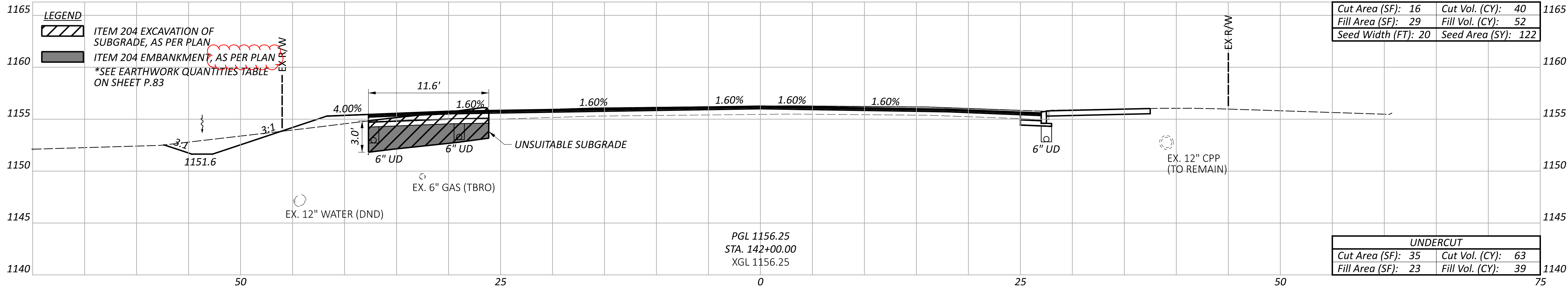
Sheet Totals			120083	
Seeding	Cut	Fill	SHEET	TOTAL
461	45	288	P.105	182

CROSS SECTIONS - SR-46 SOUTH LEG
STA. 138+50.00 TO STA. 139+01.53



CROSS SECTIONS - SR-46 SOUTH LEG
STA. 139+50.00 TO STA. 140+32.73





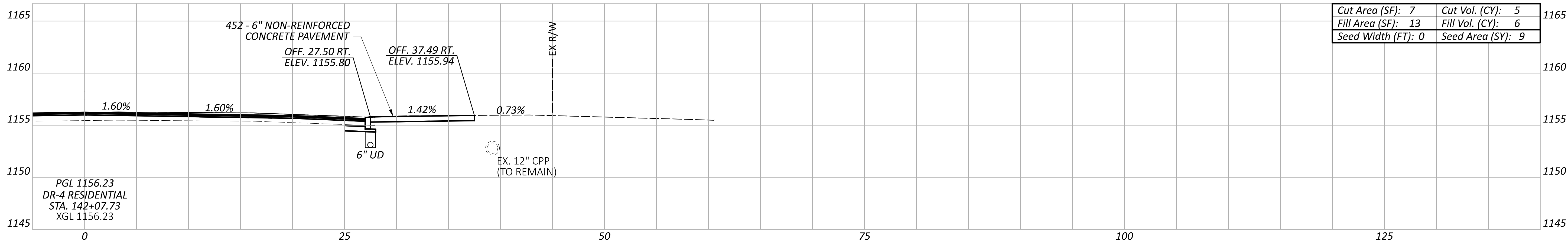
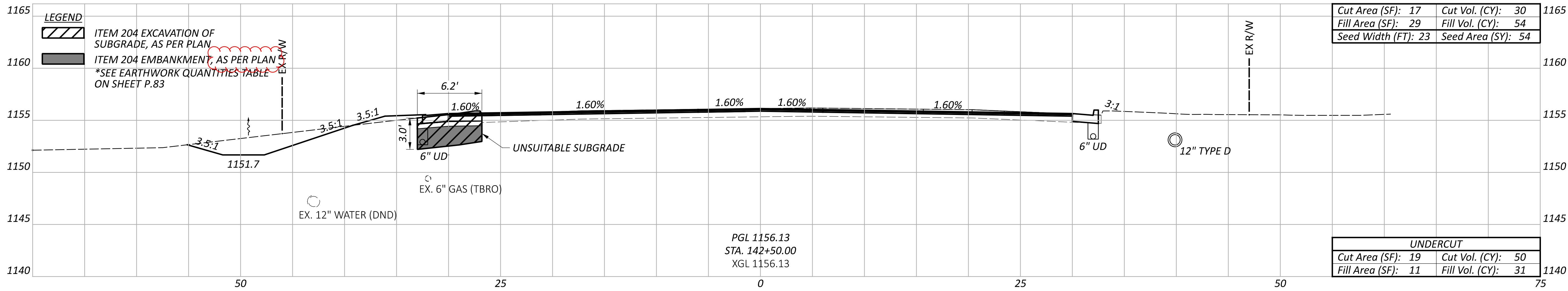
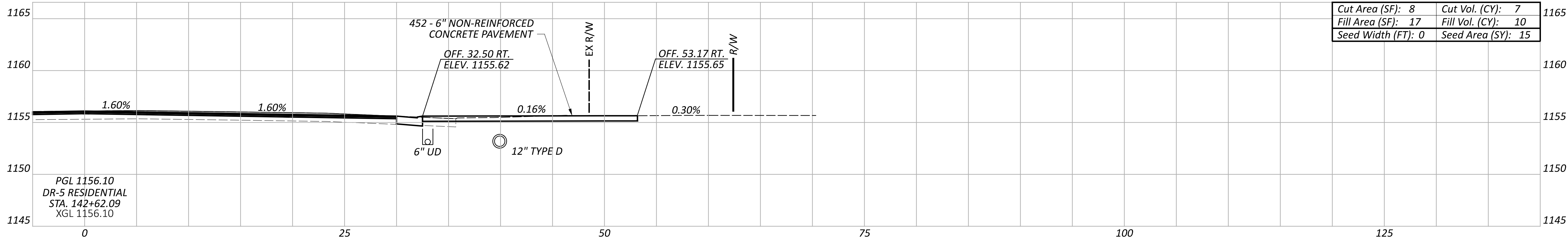
CROSS SECTIONS - SR-46 SOUTH LEG
STA. 141+40.27 TO STA. 142+00.00



DESIGNER
SKG
REVIEWER
BBD 06/12/26

PROJECT ID
120083

Sheet Totals			SHEET	TOTAL
Seeding	Cut	Fill		
135	138	100	P.108	182



Sheet Totals			120083	
Seeding	Cut	Fill	SHEET	TOTAL
54	30	54	P.109	182

CROSS SECTIONS - SR-46 SOUTH LEG
STA. 142+07.73 TO STA. 142+62.09

DESIGN AGENCY


4215 North Ave Suite K-230
Columbus, OH 43219

DESIGNER

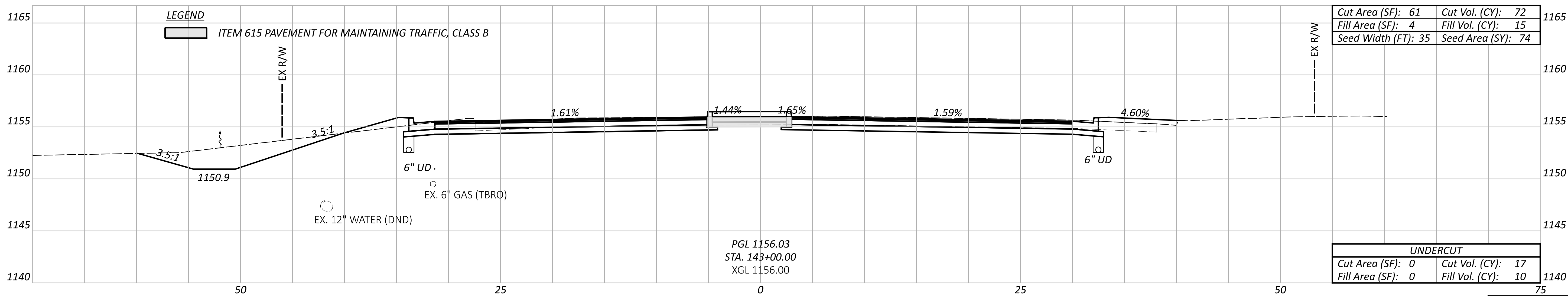
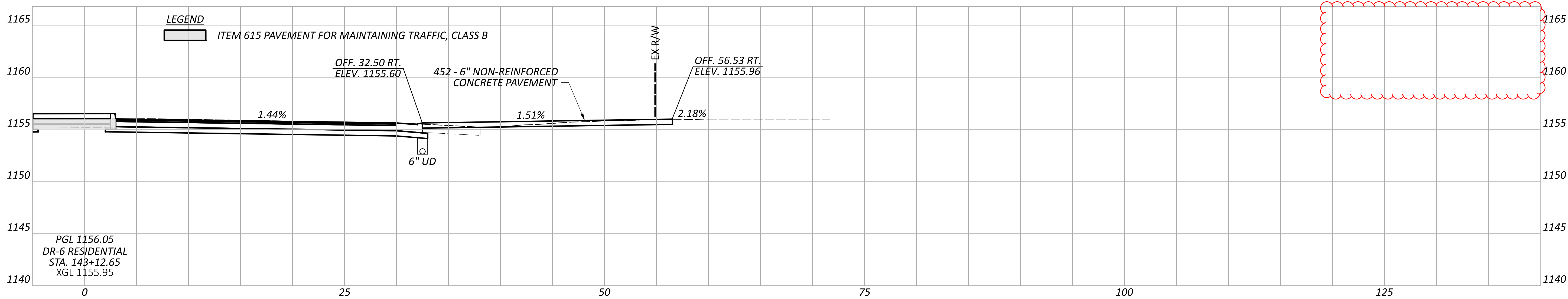
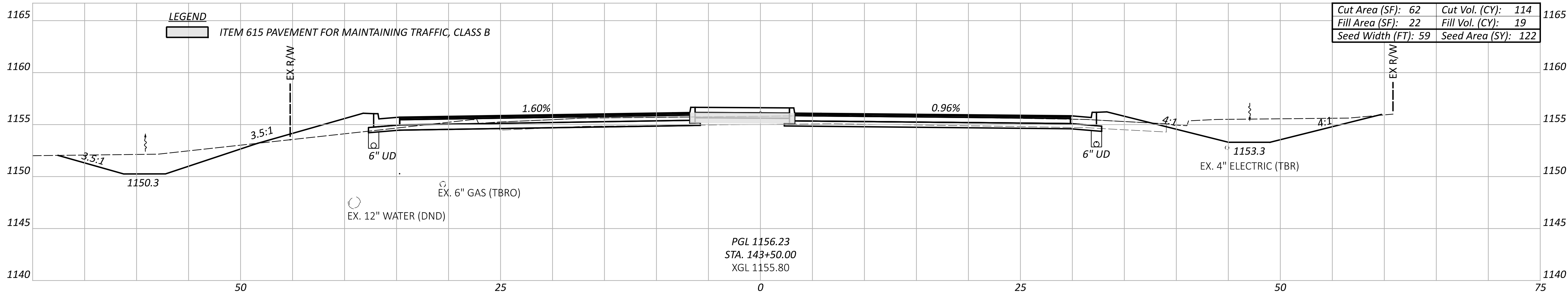
SKG

REVIEWER

BBD 06/12/26

PROJECT ID

120083



UNDERCUT			
Cut Area (SF):	0	Cut Vol. (CY):	17
Fill Area (SF):	0	Fill Vol. (CY):	10

Sheet Totals		
Seeding	Cut	Fill
196	186	34

CROSS SECTIONS - SR-46 SOUTH LEG
STA. 143+00.00 TO STA. 143+50.00

DESIGN AGENCY


4215 North Ave Suite K-230
Columbus, OH 43219

DESIGNER

SKG

REVIEWER

BBD 06/12/26

PROJECT ID

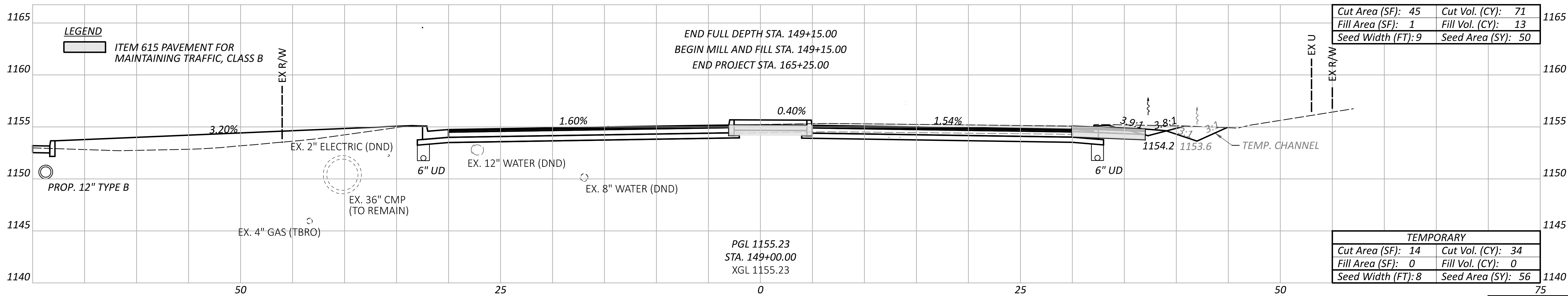
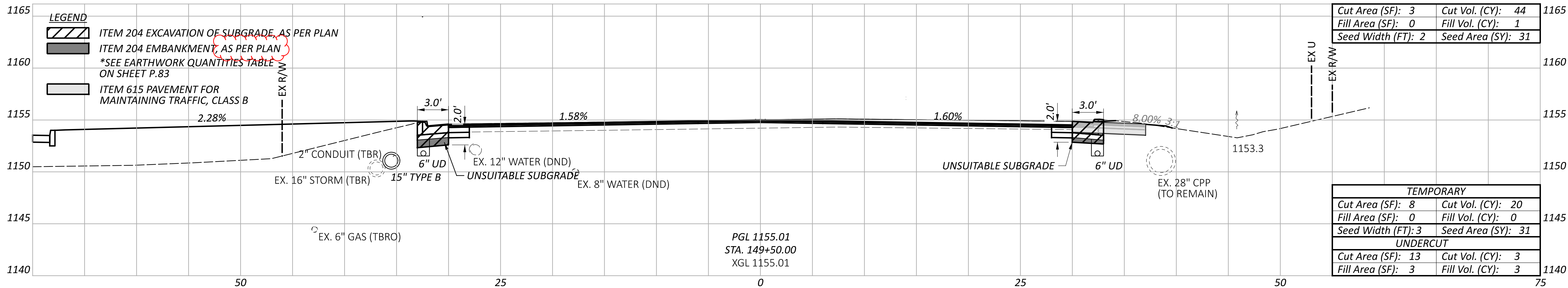
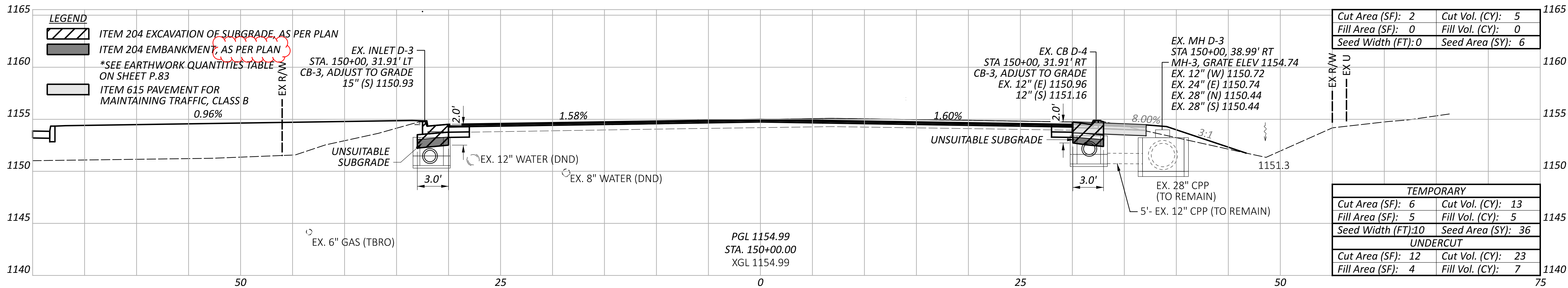
120083

SHEET

P.110

TOTAL

182



Sheet Totals			SHEET	TOTAL
Seeding	Cut	Fill		
87	120	14	P.113	182

CROSS SECTIONS - SR-46 NORTH LEG
STA. 149+00.00 TO STA. 150+00.00

DESIGN AGENCY

4215 North Ave Suite K-201
Columbus, OH 43219

DESIGNER

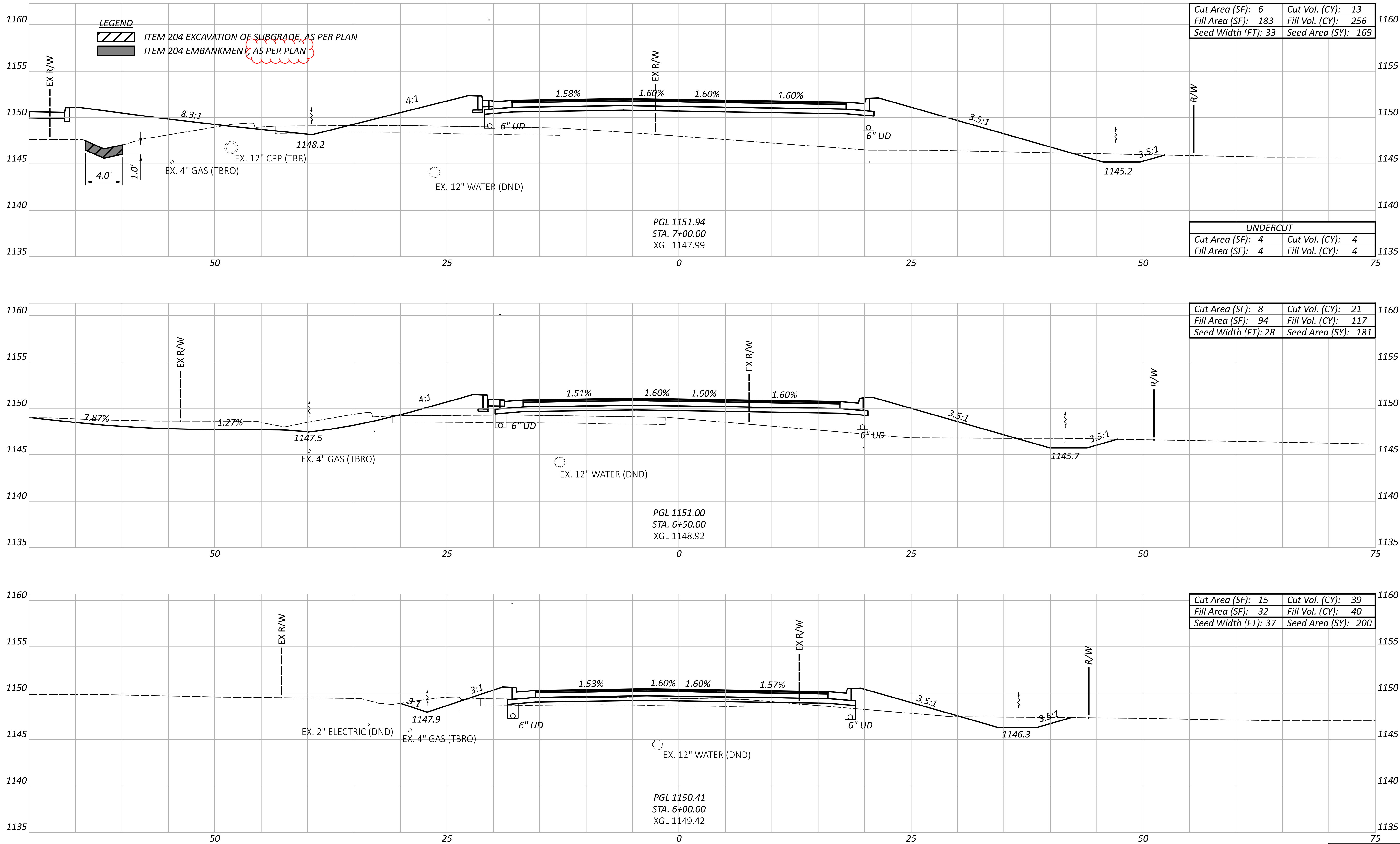
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REVIEWER

BD 06/12/26

PROJECT ID

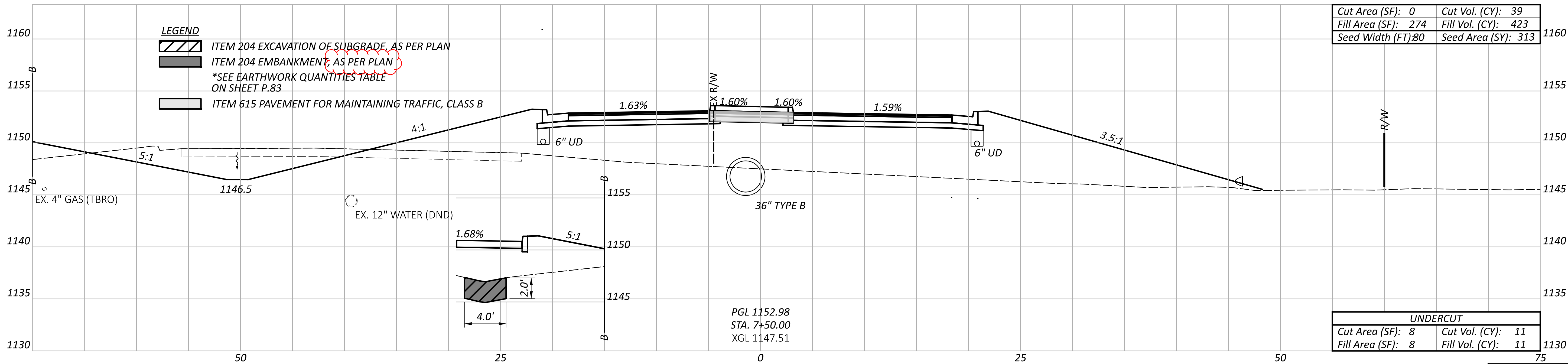
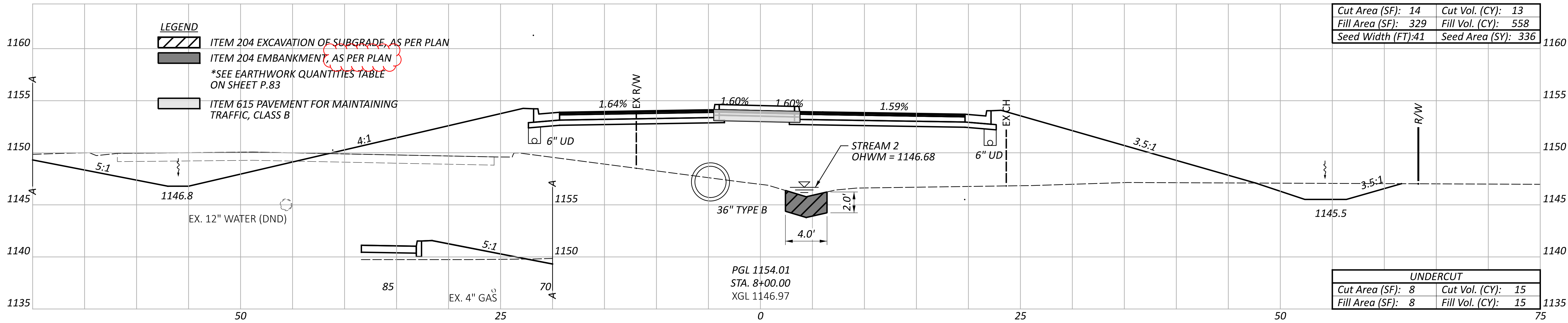
120083



CROSS SECTIONS - NEW ROAD
STA. 6+00.00 TO STA. 7+00.00



DESIGNER	
KES	
REVIEWER	
BD	06/12/26
PROJECT ID	
120083	
SHEET	TOTAL
P.117	182



Sheet Totals		
Seeding	Cut	Fill
911	88	1156

CROSS SECTIONS - NEW ROAD
STA. 7+50.00 TO STA. 8+00.00

DESIGN AGENCY



4215 North Ave Suite K-230
Columbus, OH 43219

DESIGNER

KES

REVIEWER

BD 06/12/26

PROJECT ID

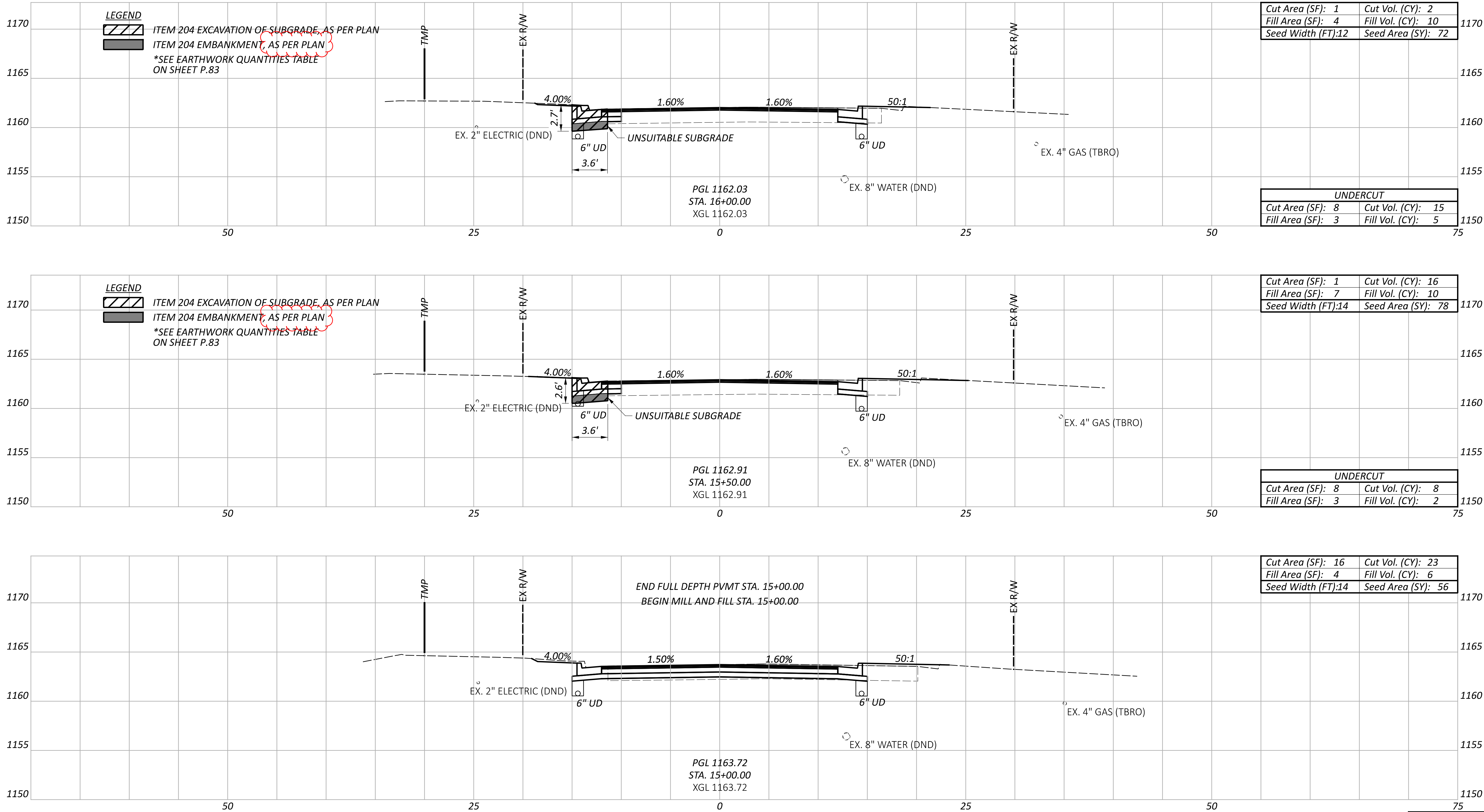
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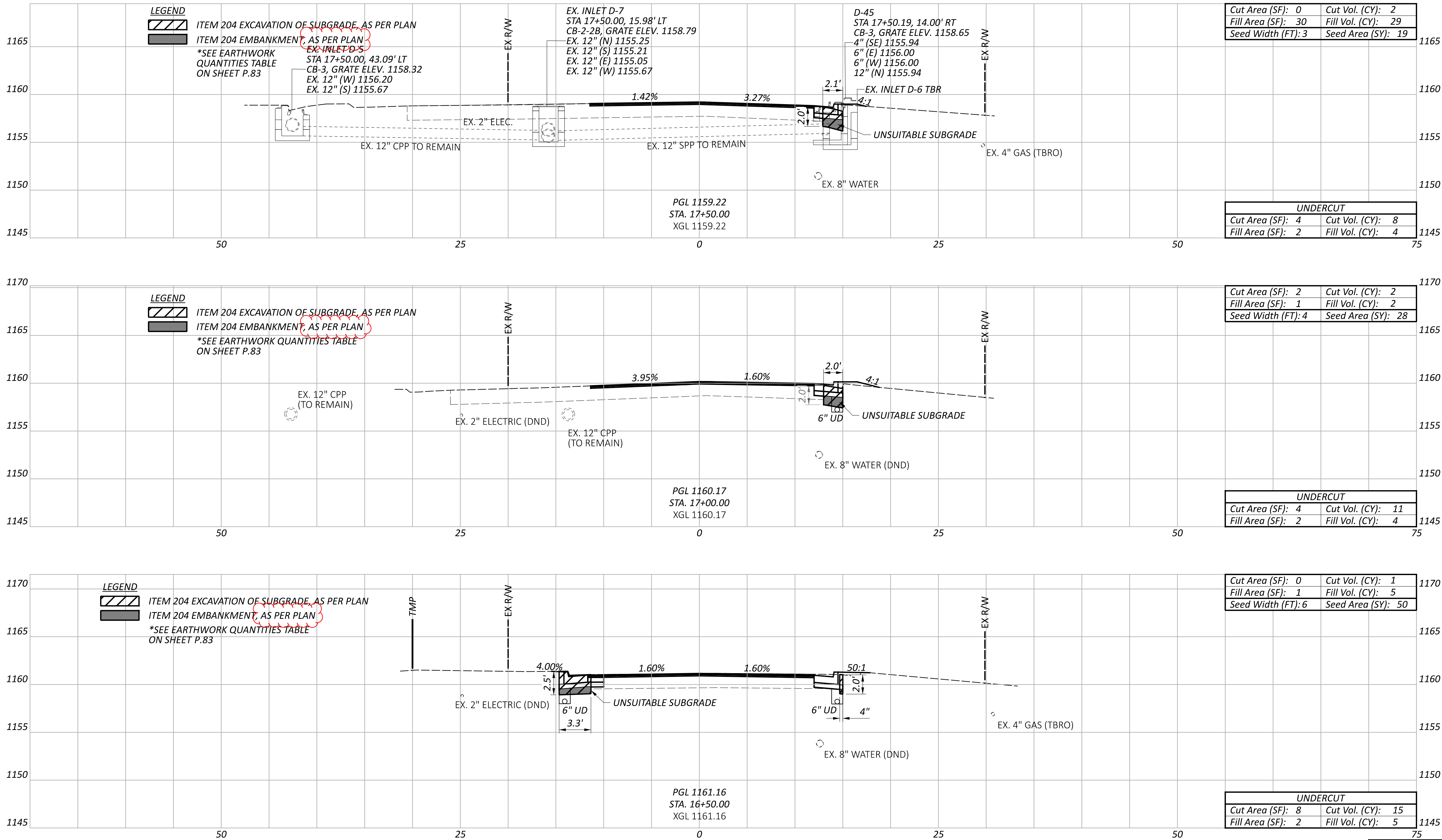
P.118

TOTAL

182



CROSS SECTIONS - NEW ROAD
STA. 15+00.00 TO STA. 16+00.00



CROSS SECTIONS - NEW ROAD
STA. 16+50.00 TO STA. 17+50.00

DESIGN AGENCY



4215 North Ave Suite K-230
Columbus, OH 43219

DESIGNER

KES

REVIEWER

BD 06/12/26

PROJECT ID

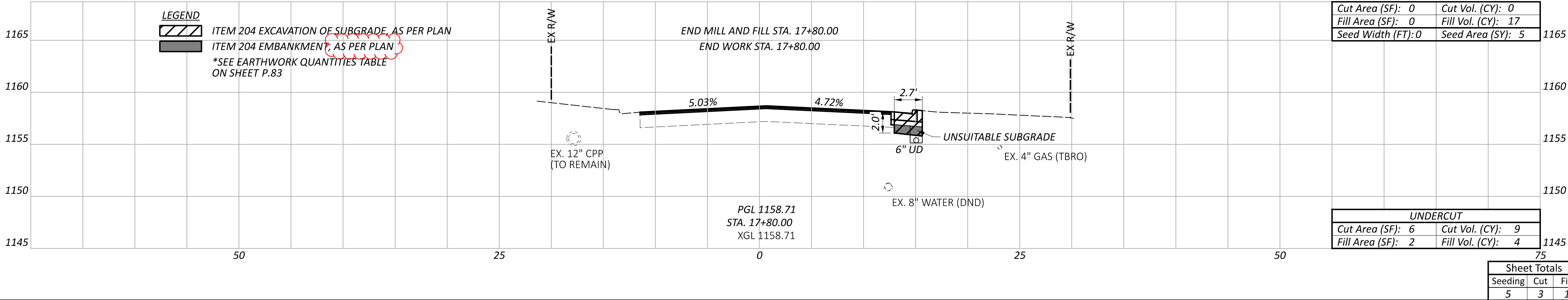
120083

Sheet Totals

Seeding 97 Cut 6 Fill 6

SHEET TOTAL

P.124 182



809 STOP LINE RADAR DETECTION, AS PER PLAN

THIS ITEM OF WORK SHALL CONSIST OF FURNISHING AND INSTALLING A WAVETRONIX SMARTSENSOR MATRIX DETECTION UNIT. THE DETECTION UNIT SHALL INCLUDE THE FOLLOWING:

1. POWER SHALL BE PROVIDED FROM THE TRAFFIC CABINET.
2. ALL REQUIRED INPUTS CARDS SHALL BE INCLUDED IN THE TRAFFIC CABINET AND SHALL BE COMPATIBLE WITH CALTRANS, NEMA TS1 AND NEMA TS2 DETECTOR RACKS. THE CARDS SHALL PROVIDE TRUE PRESENCE DETECTOR CALLS OR CONTACT CLOSURE TO THE TRAFFIC CONTROLLER.
3. THE UNIT SHALL BE MOUNTED DIRECTLY TO A POLE OR MAST ARM, AS RECOMMENDED BY THE MANUFACTURER. CABLE(S) SHALL BE PROVIDED AS REQUIRED AND RECOMMENDED BY THE MANUFACTURER.
4. SURGE PROTECTION DEVICES, AS RECOMMENDED BY THE MANUFACTURER SHALL BE INCLUDED BOTH AT THE POLE WHERE THE UNIT IS LOCATED TO PROTECT THE UNIT AND IN THE TRAFFIC CABINET TO PROTECT THE CABINET ELECTRONICS.
5. THE MANUFACTURER'S REPRESENTATIVE SHALL BE ON SITE DURING INSTALLATION AND TESTING AND SHALL PROVIDE ONSITE TRAINING ON THE SETUP, OPERATION AND MAINTENANCE OF THE UNIT.
6. A SERIAL TO ETHERNET COMMUNICATIONS MODULE AND ETHERNET CABLE (MINIMUM 7 FEET).
7. THE POWER SUPPLY AND COMMUNICATION MODULES SHALL BE SECURED TO A SINGLE PANEL THAT CAN BE MOUNTED INTERIOR TO THE TRAFFIC CABINET. THE PANEL SHALL INCLUDE MODULAR-PLUG STYLE CONNECTIONS FOR UP TO FOUR (4) SENSOR CABLES. ADDITIONAL SENSORS MAY BE HARD-WIRED TO THE COMMUNICATION MODULES, AS NECESSARY.
8. THE CONTRACTOR SHALL INSTALL THE RADAR DETECTION PRIOR TO MILLING/DISABLING EXISTING LOOPS.
9. THE INSTALLATION SHALL INCLUDE ALL CONTROLLER PROGRAMMING FOR COMPLETE INSTALLATION, WHICH INCLUDES MODIFICATIONS FOR REMOVAL OF EXISTING DETECTION.

PAYMENT FOR ITEM 809 STOP-LINE RADAR DETECTION, AS PER PLAN SHALL BE MADE AT THE CONTRACT UNIT PRICE FOR EACH UNIT, COMPLETE AND IN PLACE INCLUDING ALL REQUIRED CABINET HARDWARE, MOUNTING BRACKETS, CABLES, CONDUIT AND CONNECTIONS TESTED AND ACCEPTED.

809 ADVANCE RADAR DETECTION, AS PER PLAN

THIS ITEM OF WORK SHALL CONSIST OF FURNISHING AND INSTALLING A WAVETRONIX SMARTSENSOR ADVANCE DETECTION UNIT (MODEL SS-200E). THE DETECTION UNIT SHALL INCLUDE THE FOLLOWING:

1. POWER SHALL BE PROVIDED FROM THE TRAFFIC CABINET.
2. ALL REQUIRED INPUTS CARDS SHALL BE INCLUDED IN THE TRAFFIC CABINET AND SHALL BE COMPATIBLE WITH CALTRANS, NEMA TS1 AND NEMA TS2 DETECTOR RACKS. THE CARDS SHALL PROVIDE TRUE PRESENCE DETECTOR CALLS OR CONTACT CLOSURE TO THE TRAFFIC CONTROLLER.

809 ADVANCE RADAR DETECTION, AS PER PLAN (CONT.)

3. THE UNIT SHALL BE MOUNTED DIRECTLY TO A POLE OR MAST ARM, AS RECOMMENDED BY THE MANUFACTURER. CABLE(S) SHALL BE PROVIDED AS REQUIRED AND RECOMMENDED BY THE MANUFACTURER.
4. SURGE PROTECTION DEVICES, AS RECOMMENDED BY THE MANUFACTURER SHALL BE INCLUDED BOTH AT THE POLE WHERE THE UNIT IS LOCATED TO PROTECT THE UNIT AND IN THE TRAFFIC CABINET TO PROTECT THE CABINET ELECTRONICS.
5. THE MANUFACTURER'S REPRESENTATIVE SHALL BE ON SITE DURING INSTALLATION AND TESTING AND SHALL PROVIDE ONSITE TRAINING ON THE SETUP, OPERATION AND MAINTENANCE OF THE UNIT.
6. A SERIAL TO ETHERNET COMMUNICATIONS MODULE AND ETHERNET CABLE (MINIMUM 7 FEET).
7. THE POWER SUPPLY AND COMMUNICATION MODULES SHALL BE SECURED TO A SINGLE PANEL THAT CAN BE MOUNTED INTERIOR TO THE TRAFFIC CABINET. THE PANEL SHALL INCLUDE MODULAR-PLUG STYLE CONNECTIONS FOR UP TO FOUR (4) SENSOR CABLES. ADDITIONAL SENSORS MAY BE HARD-WIRED TO THE COMMUNICATION MODULES, AS NECESSARY.
8. THE CONTRACTOR SHALL INSTALL THE RADAR DETECTION PRIOR TO MILLING/DISABLING EXISTING LOOPS.
9. THE INSTALLATION SHALL INCLUDE ALL CONTROLLER PROGRAMMING FOR COMPLETE INSTALLATION, WHICH INCLUDES MODIFICATIONS FOR REMOVAL OF EXISTING DETECTION. PAYMENT FOR ITEM 809 ADVANCE RADAR DETECTION, AS PER PLAN SHALL BE MADE AT THE CONTRACT UNIT PRICE FOR EACH UNIT, COMPLETE AND IN PLACE INCLUDING ALL REQUIRED CABINET HARDWARE, MOUNTING BRACKETS, CABLES, CONDUIT, CONNECTIONS TESTED AND ACCEPTED, AND ANY OTHER NECESSARY HARDWARE TO ESTABLISH A FULLY FUNCTIONAL DETECTION SYSTEM.

PAYMENT FOR ITEM 809 ADVANCE RADAR DETECTION, AS PER PLAN SHALL BE MADE AT THE CONTRACT UNIT PRICE FOR EACH UNIT, COMPLETE AND IN PLACE INCLUDING ALL REQUIRED CABINET HARDWARE, MOUNTING BRACKETS, CABLES, CONDUIT, CONNECTIONS TESTED AND ACCEPTED, AND ANY OTHER NECESSARY HARDWARE TO ESTABLISH A FULLY FUNCTIONAL DETECTION SYSTEM.

CAUTION WITH UTILITY CROSSINGS

THE CONTRACTOR SHALL UTILITIZE EXTREME CARE WHILE INSTALLING SIGNAL CONDUIT IN CLOSE PROXIMITY TO GAS AND WATER LINES DUE TO SIMILAR DEPTHS TO PROPOSED CONDUIT. CONTRACTOR AND ENGINEER ON SITE TO DETERMINE THE NEED FOR HYDRO EVACUATION TO REQUIRED DEPTHS.

809 ATC CONTROLLER, AS PER PLAN

THE CONTROLLER UNIT SHALL BE FURNISHED AND INSTALLED PER SS 809 AND BE LISTED ON THE TRAFFIC AUTHORIZED PRODUCTS (TAP) LIST.

THE CONTROLLER SHALL BE AN ECONOLITE COBALT AND COMPATIBLE WITH THE CABINET TYPE BEING INSTALLED.

SIGNAL ACTIVATION

PRIOR TO ACTIVATING THE NEW TRAFFIC SIGNAL TO STOP-AND-GO MODE AND/OR REMOVING THE EXISTING TRAFFIC SIGNAL FROM SERVICE, ALL ITEMS IN THE PROPOSED SIGNAL PLAN SHALL BE FULLY COMPLETED, (I.E., VEHICLE DETECTION, PEDESTRIAN SIGNAL HEADS, ETC). IF THERE ARE CONSTRUCTABILITY ISSUES (I.E., ROADWAY WIDENING, ETC.) THAT PREVENT THE SIGNAL FROM BEING COMPLETED PRIOR TO ACTIVATION, IT SHALL BE BROUGHT TO THE ATTENTION OF THE PROJECT ENGINEER AND DISTRICT TRAFFIC ENGINEER. THE DISTRICT TRAFFIC ENGINEER WILL THEN REVIEW, APPROVE OR REJECT PROPOSALS TO ACTIVATE THE TRAFFIC SIGNAL PRIOR TO COMPLETION.

THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER AND DISTRICT TRAFFIC ENGINEER AT LEAST 10 WORKING DAYS PRIOR TO SCHEDULING THE FINAL INSPECTION OF THE SIGNAL INSTALLATION. FINAL INSPECTION IS NOT CONSIDERED COMPLETE UNTIL DESIGNATED DISTRICT TRAFFIC PERSONNEL INSPECT THE TRAFFIC SIGNAL AND ISSUE WRITTEN APPROVAL. IF ISSUES ARE FOUND DURING THE FINAL INSPECTION THAT EFFECT THE SAFETY OF THE TRAVELING PUBLIC AND/OR THE EFFICIENCY OF THE INTERSECTION, THE SIGNAL SHALL NOT BE ACTIVATED ON THE PROPOSED DATE. ANY PUNCH LIST ITEMS THAT ARE FOUND SHALL BE CORRECTED AND REINSPECTED BY DISTRICT TRAFFIC PERSONNEL PRIOR TO FINAL ACCEPTANCE. ODOT FORCES SHALL ONLY ASSUME DAY TO DAY MAINTENANCE OF THE TRAFFIC SIGNAL AFTER FINAL WRITTEN ACCEPTANCE HAS BEEN ISSUED.

632 REMOVAL OF TRAFFIC SIGNAL INSTALLATION

TRAFFIC SIGNAL INSTALLATIONS, INCLUDING SIGNAL HEADS, CABLE, MESSENGER WIRE, SIGNAL SUPPORTS, CABINET(S), PULLBOXES, CONDUIT, CONTROLLER, ETC., SHALL BE REMOVED IN ACCORDANCE WITH C&MS 632.26 AND AS INDICATED ON THE PLANS. UNLESS NOTED, POWER SERVICES SHALL BE REMOVED IN ACCORDANCE WITH C&MS 625.21.F. REMOVED ITEMS SHALL BE REUSED AS PART OF A NEW INSTALLATION ON THE PROJECT OR STORED ON THE PROJECT FOR SALVAGE BY OHIO DEPARTMENT OF TRANSPORTATION IN ACCORDANCE WITH THE LISTING GIVEN HEREIN.

SIGNAL HEADS, CABINET AND COMPONENTS, UPS AND COMPONENTS METERBASE AND DISCONNECT.

REMOVED ITEMS SHALL BE DELIVERED TO THE ODOT FACILITY WHOSE ADDRESS IS LISTED BELOW:

ODOT DISTRICT 4, ATTN: GLEN HILLEGAS (330-217-0670)

2088 SOUTH ARLINGTON RD
AKRON, OH, 44306

IN THE EVENT THE ITEMS STORED ON THE PROJECT FOR SALVAGE BY THE LOCAL AGENCY ARE NOT REMOVED, THE CONTRACTOR SHALL, WHEN DIRECTED BY THE ENGINEER IN WRITING, REMOVE AND DISPOSE OF THE ITEMS AT NO ADDITIONAL COST TO THE PROJECT.

GUARANTEE

THE CONTRACTOR SHALL GUARANTEE THAT THE TRAFFIC CONTROL SYSTEM INSTALLED AS PART OF THIS CONTRACT SHALL OPERATE SATISFACTORILY FOR A PERIOD OF 120 DAYS FOLLOWING COMPLETION OF THE 10-DAY PERFORMANCE TEST. IN THE EVENT OF UNSATISFACTORY OPERATION, THE CONTRACTOR SHALL CORRECT FAULTY INSTALLATIONS, MAKE REPAIRS AND REPLACE DEFECTIVE PARTS WITH NEW PARTS OF EQUAL OR BETTER QUALITY.

EQUIPMENT, MATERIAL AND LABOR COSTS INCURRED IN CORRECTING AN UNSATISFACTORY OPERATION SHALL BE BORNE BY THE CONTRACTOR.

THE GUARANTEE SHALL COVER THE FOLLOWING ITEMS OF THE TRAFFIC CONTROL SYSTEM: CONTROLLER, CABINET, UNINTERRUPTIBLE POWER SUPPLY, VEHICLE DETECTION EQUIPMENT, LED LAMP UNITS, NETWORK AND COMMUNICATION/INTERCONNECT EQUIPMENT.

CUSTOMARY MANUFACTURER'S GUARANTEES FOR THE FOREGOING ITEMS SHALL BE TURNED OVER TO THE STATE OR THE MAINTAINING AGENCY FOLLOWING ACCEPTANCE OF THE EQUIPMENT.

THE COST OF GUARANTEEING THE TRAFFIC CONTROL SYSTEM WILL BE INCIDENTAL TO AND INCLUDED IN THE CONTRACT UNIT PRICE OF THE VARIOUS ITEMS MAKING UP THE SYSTEM.

ITEM 809 - ITS DEVICE, MISC.: REUSE COMMUNICATION DEVICE

REMOVE THE EXISTING MODEM, ANTENNA, AND ETHERNET CABLE FROM THE EXISTING SIGNAL CABINET AND INSTALL AT THE PROPOSED SIGNAL CABINET.

THIS ITEM SHALL INCLUDE THE FURNISHING A MOUNTING BRACKET FOR THE ANTENNA WITH ALL THE NECESSARY HARDWARE INCLUDING BUT NOT LIMITED TO SPRING NUTS, WASHERS, AND BOLTS THAT INSTALLS TO THE MOUNTING CHANNEL ON THE SIDE OF THE SIGNAL CABINET.

THE DEPARTMENT WILL MEASURE "ITS DEVICE, MISC.: REUSE COMMUNICATIONS DEVICE" BY THE NUMBER OF COMPLETE UNITS FURNISHED, RECEIVED, AND ACCEPTED BY ODOT DISTRICT 4 TRAFFIC.

METHOD OF MEASUREMENT SHALL BE AS PER 809. THE FOLLOWING QUANTITIES HAVE BEEN CARRIED TO THE SUBSUMMARY:

ITEM 809 ITS DEVICE, MISC.: REUSE COMMUNICATION DEVICE, 1 EACH

ITEM 625 ARCH FLASH CALCULATIONS AND LABEL, CONTROL CENTER

THE CONTRACTOR SHALL SATISFY THE REQUIREMENTS OF ODOT SUPPLEMENTAL SPECIFICATION 825 FOR THE CONTROL CENTERS. THE CONTRACTOR MAY BE ABLE TO OBTAIN LABELS FOR THE ODOT MAINTAINED INSTALLATIONS FROM THE ODOT SIGN SHOP, 1606 WEST BROAD ST., COLUMBUS, OH 43223, FOR NON- ODOT MAINTAINED INSTALLATIONS THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING THE LABEL MADE FROM "ENGINEER GRADE" SIGN SHEETING OR AN EQUIVALENT LABEL MATERIAL.

THE ODOT OFFICE OF ROADWAY ENGINEERING HAS AN EXCEL SPREADSHEET AVAILABLE UPON REQUEST, TO ASSIST WITH MAKING AND DOCUMENTING THE REQUIRED CALCULATIONS.

METHOD OF MEASUREMENT SHALL BE AS PER 825.06 THE FOLLOWING QUANTITIES HAVE BEEN CARRIED TO THE SUBSUMMARY:

ITEM 625 ARC FLASH CALCULATION AND LABEL, CONTROL CENTER, 1 EACH

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SIGNAL SUBSUMMARY CONT'D	
DESIGN AGENCY	 4215 North Ave Suite K200 Columbus, OH 43219
DESIGNER	PIC
REVIEWER	
MST	09/28/26
PROJECT ID	120083
SHEET	TOTAL
P.162	182