

UTILITIES

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

- AT&T
13630 LORAIN AVENUE - 2ND FLOOR
CLEVELAND, OH 44111
ATTN: SCOTT KLEBE
216-476-6057
NORTHEAST OHIO REGIONAL
SEWER DISTRICT
3900 EUCLID AVENUE
CLEVELAND, OH 44115
ATTN: ROBERT STOERKEL
216-881-6600
- CEI FIRST ENERGY
6896 MILLER ROAD
BRECKSVILLE, OH 44141
ATTN: PAM RUSANOWSKY
440-546-8718
SUNOCO PIPELINE
ENERGY TRANSFER
525 FRITZTOWN ROAD
SINKING SPRING, PA 19608
ATTN: DEB SCHNECK
610-670-3258
- CENTURYLINK
441 WEST BROAD STREET
PATASKALA, OH 43062
ATTN: CHRISTOPHER STRAYER
303-886-1299
WINDSTREAM
1450 N CENTER POINT ROAD
HIAWATHA, IA 52233
ATTN: JESSE COOKSLEY
800-289-1901
- CHARTER COMMUNICATIONS
7820 DIVISION DRIVE
MENTOR, OH 44060
ATTN: EMIL SYMISTER
216-575-8016
WIDE OPEN WEST INTERNET,
CABLE, AND PHONE
105 BLAZE INDUSTRIAL PARKWAY
BEREA, OH 44017
ATTN: JILLIAN ZULKER
216-538-7541
- CROWN CASTLE FIBER
15565 NEO PARKWAY
GARFIELD HEIGHTS, OH 44128
ATTN: EDWARD DALY
585-397-5988
VERIZON BUSINESS
120 RAVINE STREET
AKRON, OH 44303
ATTN: DAN ARZ
440-457-4832
- DOMINION EAST OHIO GAS COMPANY
320 SPRINGSIDE DRIVE, SUITE 320
FAIRLAWN, OH 44333
ATTN: GREGORY TOMPKINS
330-664-2409
ODOT DISTRICT 12 TRAFFIC
5500 TRANSPORTATION BLVD
GARFIELD HEIGHTS, OH 44125
ATTN: KEITH HAMILTON
216-584-2220
keith.hamilton@dot.ohio.gov
- DOMINION EAST OHIO
GAS COMPANY
320 SPRINGSIDE DRIVE, SUITE 320
FAIRLAWN, OH 44333
ATTN: GREGORY TOMPKINS
330-664-2409
ATTN: DAVID NIMRICHTER
216-584-2296
david.nimrichter@dot.ohio.gov
- CITY OF CLEVELAND
DIVISION OF WATER
1201 LAKESIDE AVENUE
CLEVELAND, OH 44114
ATTN: LELIA MARINESCU
216-664-2444
- CITY OF CLEVELAND
DIVISION OF WATER POLLUTION CONTROL
12302 KIRBY ROAD
CLEVELAND, OH 44108
ATTN: ALEX CANCELLIERE
216-420-7638
- CITY OF CLEVELAND
DIVISION OF CLEVELAND PUBLIC POWER
1300 LAKESIDE AVENUE
CLEVELAND, OH 44114
ATTN: THEPHILUS HUDSON
216-664-3297

SURVEYING PARAMETERS

PRIMARY PROJECT CONTROL MONUMENTS GOVERN ALL POSITIONING ON ODOT PROJECTS. SEE SHEET NO. 3 OF THE PLANS FOR A TABLE CONTAINING PROJECT CONTROL INFORMATION.

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

PROJECT CONTROL

POSITIONING METHOD: STATIC GPS/ODOT VRS RTK GPS / CONVENTIONAL MONUMENT TYPE: ODOT TYPE B MONUMENTS AND MAG NAILS

VERTICAL POSITIONING

ORTHOMETRIC HEIGHT DATUM: NAVD88
GEOID: GEOID 12B

HORIZONTAL POSITIONING

REFERENCE FRAME: NAD83(2011)
ELLIPSOID: GRS80
MAP PROJECTION: LAMBERT CONFORMAL CONIC
COORDINATE SYSTEM: OHIO STATE PLANE NORTH ZONE (3401)
COMBINED SCALE FACTOR: 0.99992126
PROJECT ADJUSTMENT FACTOR: 3.28109168.
ORIGIN OF COORDINATE SYSTEM: X=0, Y=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.

EXISTING PLANS

EXISTING PLANS LISTED BELOW MAY BE INSPECTED IN THE ODOT DISTRICT 12 OFFICE IN GARFIELD HEIGHTS, OHIO.

- CUY-480-19.21 CUY-480-19.43
- CUY-480-19.23 CUY-480-21.30

CLEARING AND GRUBBING

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

ROUNDING

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

PART WIDTH CONSTRUCTION

BECAUSE OF THE NECESSITY TO BUILD THIS PROJECT UNDER TRAFFIC AND TO CONSTRUCT THE FULL PAVEMENT WIDTH IN STAGES, EXERCISE CARE TO PREVENT THE CONSTRUCTION OF A BUTT JOINT IN THE BASE COURSES. LAP LONGITUDINAL JOINTS AS SHOWN ON STANDARD DRAWING BP-3.1.

ITEM 204 - PROOF ROLLING

THE FOLLOWING QUANTITY IS PROVIDED IN THE GENERAL SUMMARY TO ADDRESS LOCATIONS REQUIRING PROOF ROLLING.

ITEM 204 - PROOF ROLLING 3 HOURS.

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.

SEEDING AND MULCHING

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

- 659, SOIL ANALYSIS TEST 1 EACH
- 659, TOPSOIL 200 CU. YD.
- 659, SEEDING AND MULCHING 3120 SQ. YD.
- 659, REPAIR SEEDING AND MULCHING 285 SQ. YD.
- 659, INTER-SEEDING 285 SQ. YD.
- 659, COMMERCIAL FERTILIZER 1 TON
- 659, LIME 1 ACRES
- 659, WATER 0.1 M. GAL.
- 659, MOWING 0.1 M. SQ.FT.

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 THESE LIMITS.

POST CONSTRUCTION STORM WATER TREATMENT

THIS PLAN UTILIZES STRUCTURAL BEST MANAGEMENT PRACTICES (BMP'S) FOR POST CONSTRUCTION STORM WATER TREATMENT.

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, THE CONTRACTOR SHALL 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, THE ENGINEER SHALL BE NOTIFIED 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, THE ENGINEER SHALL BE NOTIFIED 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 SHALL BE INCLUDED IN THE CONTRACT PRICE FOR THE PERTINENT 611 CONDUIT ITEM.

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.

ITEM 618 - RUMBLE STRIPS, ASPHALT CONCRETE, AS PER PLAN

FOR ALL FREEWAYS, THE LATERAL POSITION OF EDGE LINE RUMBLE STRIPS SHOWN IN SCD BB-9.1 IS REVISED AS FOLLOWS:

- MEDIAN AND OUTSIDE SHOULDER OFFSET FOR SHOULDERS LESS THAN 6': DIMENSION A AND B ARE EQUAL TO 6".
- MEDIAN AND OUTSIDE SHOULDER OFFSET FOR SHOULDERS 6' TO 12': DIMENSION A AND B ARE EQUAL TO HALF THE SHOULDER WIDTH MINUS 12".
- MEDIAN AND OUTSIDE SHOULDER OFFSET FOR SHOULDERS GREATER THAN 12': DIMENSION A AND B ARE EQUAL TO 5'.

ITEM 618 - RUMBLE STRIPS, (ASPHALT CONCRETE), AS PER PLAN 2.45 MI.

REVIEW OF DRAINAGE FACILITIES (ODOT) FREEWAY SYSTEM

BEFORE ANY WORK IS STARTED ON THE PROJECT AND AGAIN BEFORE FINAL ACCEPTANCE BY THE STATE, REPRESENTATIVES OF THE STATE AND THE CONTRACTOR, ALONG WITH LOCAL REPRESENTATIVES, SHALL MAKE AN INSPECTION OF ALL EXISTING SEWERS WHICH ARE TO REMAIN IN SERVICE AND WHICH MAY BE AFFECTED BY THE WORK. THE CONDITION OF THE EXISTING CONDUITS AND THEIR APPURTENANCE SHALL BE DETERMINED FROM FIELD OBSERVATIONS. RECORDS OF THE INSPECTION SHALL BE KEPT IN WRITING BY THE STATE.

ALL NEW CONDUITS, INLETS, CATCH BASINS, AND MANHOLES CONSTRUCTED AS A PART OF THE PROJECT SHALL BE FREE OF ALL FOREIGN MATTER AND IN A CLEAN CONDITION BEFORE THE PROJECT WILL BE ACCEPTED BY THE STATE.

ALL EXISTING SEWERS INSPECTED INITIALLY BY THE ABOVE MENTIONED PARTIES SHALL BE MAINTAINED AND LEFT IN A CONDITION REASONABLY COMPARABLE TO THAT DETERMINED BY THE ORIGINAL INSPECTION. ANY CHANGE IN THE CONDITION RESULTING FROM THE CONTRACTOR'S OPERATIONS SHALL BE CORRECTED BY THE CONTRACTOR TO THE SATISFACTION OF THE ENGINEER.

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

ITEM 619 FIELD OFFICE, TYPE B, AS PER PLAN

IN ADDITION TO THE REQUIREMENTS OF CMS 619, THE CONTRACTOR SHALL FURNISH AND SET UP A WI-FI ROUTER MEETING THE REQUIREMENTS OF IEEE 802.11AC FOR THE EXCLUSIVE USE OF THE DEPARTMENT.

ALL OTHER FIELD OFFICE ITEMS SUPPLIED SHALL MEET THE REQUIREMENTS OF A TYPE B FIELD OFFICE.

ITEM 619 FIELD OFFICE, TYPE B, AS PER PLAN 6 MONTHS

DESIGN AGENCY



DESIGNER

DJT

REVIEWER

WAA 12-04-20

PROJECT ID

107657

SHEET TOTAL

7 98

CUY-480-21.30WB

SHEET NUM.												PART.	ITEM	ITEM	GRAND	UNIT	DESCRIPTION	SEE SHEET NO.
7	8	21	22	23	25	33						01/SAF/PV	EXT	TOTAL				
ROADWAY																		
LS												LS	201	11000	LS	CLEARING AND GRUBBING		
		3,683										3,683	202	23000	3,683	SY	PAVEMENT REMOVED	
		40										40	202	30700	40	FT	CONCRETE BARRIER REMOVED	
		409										409	202	38000	409	FT	GUARDRAIL REMOVED	
						2,228						2,228	203	10000	2,228	CY	EXCAVATION	
						504						504	203	20000	504	CY	EMBANKMENT	
			3,666									3,666	204	10000	3,666	SY	SUBGRADE COMPACTION	
	280											280	204	13001	280	CY	EXCAVATION OF SUBGRADE, AS PER PLAN	
3												3	204	45000	3	HOUR	PROOF ROLLING	
		1										1	209	15051	1	MILE	RESHAPING UNDER GUARDRAIL, AS PER PLAN	
		563										563	606	15050	563	FT	GUARDRAIL, TYPE MGS	
		3										3	606	26150	3	EACH	ANCHOR ASSEMBLY, MGS TYPE E, (MASH 2016)	
		1										1	606	26550	1	EACH	ANCHOR ASSEMBLY, MGS TYPE T	
		3										3	606	35002	3	EACH	MGS BRIDGE TERMINAL ASSEMBLY, TYPE 1	
		2										2	606	35102	2	EACH	MGS BRIDGE TERMINAL ASSEMBLY, TYPE 2	
		4										4	622	10201	4	EACH	BARRIER TRANSITION, AS PER PLAN	
		21										21	622	24000	21	FT	CONCRETE BARRIER, TYPE D	
		1										1	622	25000	1	EACH	CONCRETE BARRIER END SECTION, TYPE D	
		1										1	622	25050	1	EACH	CONCRETE BARRIER, END ANCHORAGE, REINFORCED, TYPE D	
		16										16	626	00110	16	EACH	BARRIER REFLECTOR, TYPE 2, ONE-WAY	
		3,591										3,591	872	10000	3,591	FT	VOID REDUCING ASPHALT MEMBRANE (VRAM)	
EROSION CONTROL																		
1												1	659	00100	1	EACH	SOIL ANALYSIS TEST	
200												200	659	00300	200	CY	TOPSOIL	
3,120												3,120	659	10000	3,120	SY	SEEDING AND MULCHING	
285												285	659	14000	285	SY	REPAIR SEEDING AND MULCHING	
285												285	659	15000	285	SY	INTER-SEEDING	
1												1	659	20000	1	TON	COMMERCIAL FERTILIZER	
1												1	659	31000	1	ACRE	LIME	
0.1												0.1	659	35000	0.1	MGAL	WATER	
0.1												0.1	659	40000	0.1	MSF	MOWING	
				201								201	670	00200	201	SY	VEGETATED SWALE EROSION PROTECTION	
				156								156	671	15050	156	SY	EROSION CONTROL MAT, TYPE F	
					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	
					25,000							25,000	832	30000	25,000	EACH	EROSION CONTROL	
DRAINAGE																		
				3								3	202	58100	3	EACH	CATCH BASIN REMOVED	
				5								5	602	20000	5	CY	CONCRETE MASONRY	
				3,099								3,099	605	14000	3,099	FT	6" BASE PIPE UNDERDRAINS	
				111								111	611	00510	111	FT	6" CONDUIT, TYPE F FOR UNDERDRAIN OUTLETS	
				8								8	611	05900	8	FT	15" CONDUIT, TYPE B, RCP	
				8								8	611	06100	8	FT	15" CONDUIT, TYPE C, CMP	
				60								60	611	07400	60	FT	18" CONDUIT, TYPE B, RCP	
				87								87	611	07600	87	FT	18" CONDUIT, TYPE C, RCP	
				2								2	611	98150	2	EACH	CATCH BASIN, NO. 3	
				2								2	611	98300	2	EACH	CATCH BASIN, NO. 5	
				1								1	611	99574	1	EACH	MANHOLE, NO. 3	
				1								1	611	99575	1	EACH	MANHOLE, NO. 3, AS PER PLAN	
				2								2	611	99710	2	EACH	PRECAST REINFORCED CONCRETE OUTLET	

GENERAL SUMMARY

DESIGN AGENCY



DESIGNER
MAH

REVIEWER
WAA 1-11-21

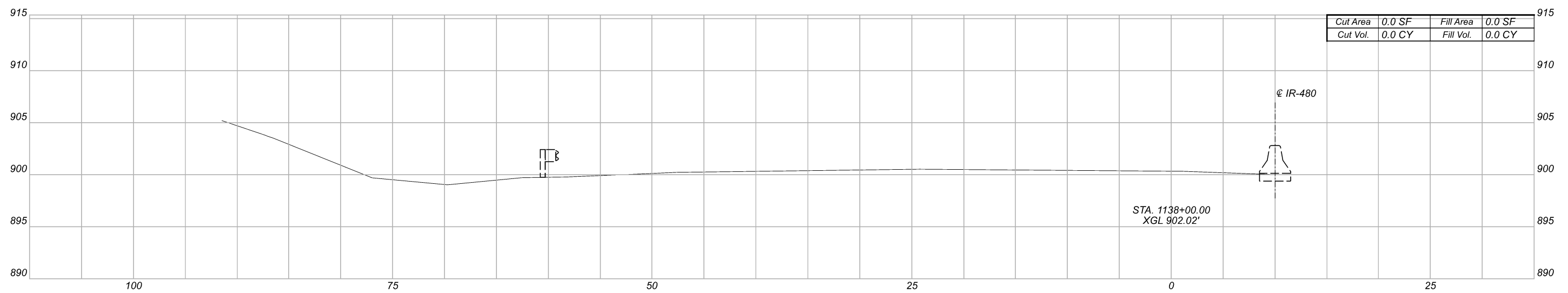
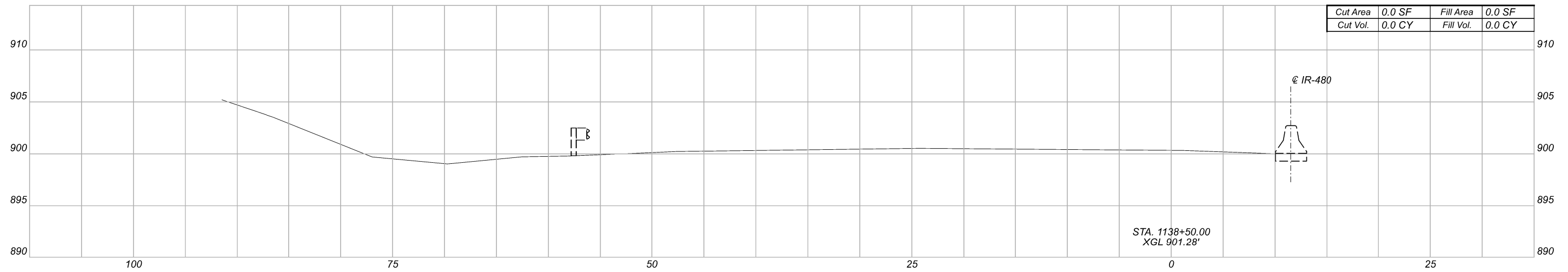
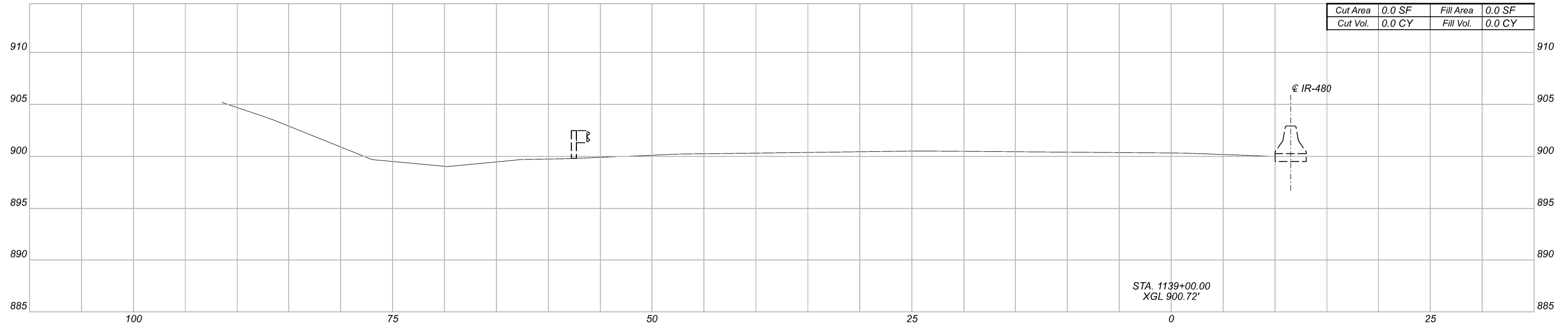
PROJECT ID
107657

SHEET TOTAL
19 98

8a

8

8a



Totals for Lengths of Project		
Item 203 - Excavation	Item 203 - Embankment	Item 659 - Seeding and Mulching
2228.2 CY	504.2 CY	3120.1 SY

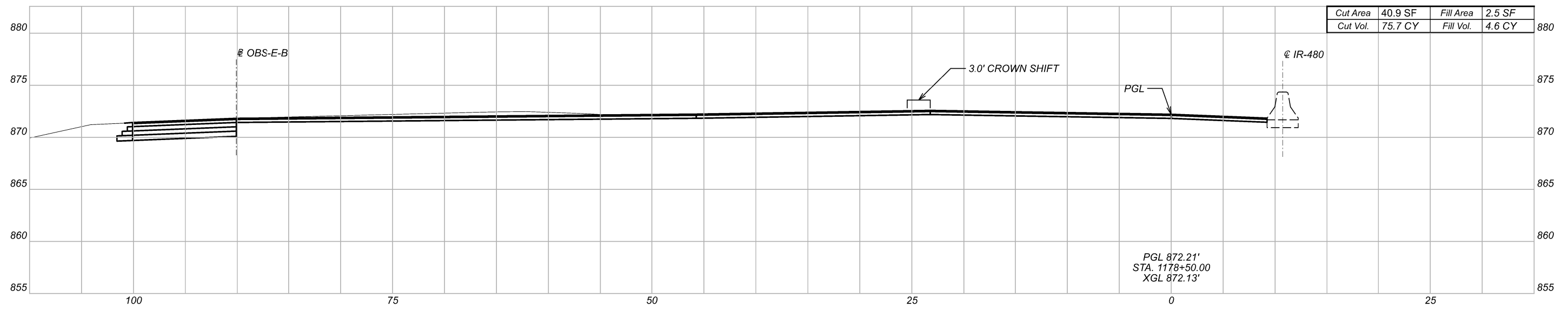
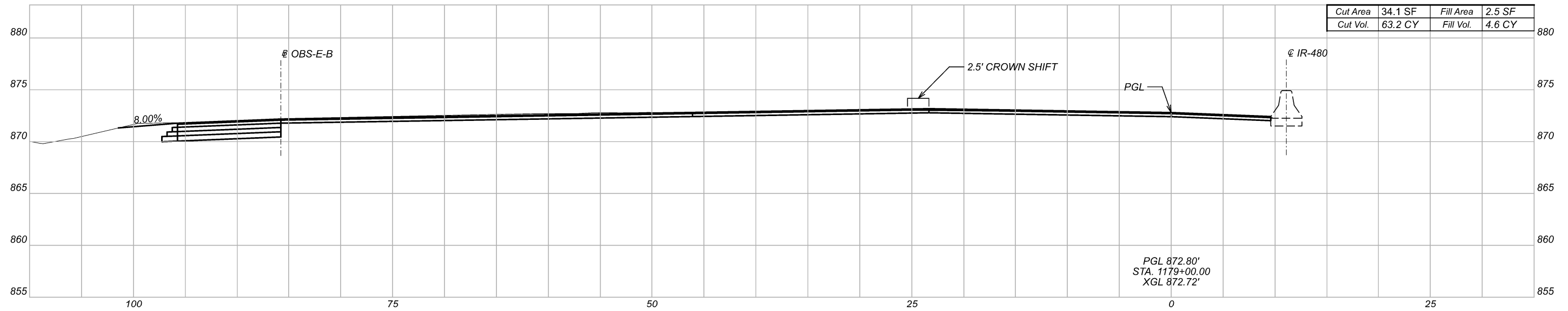
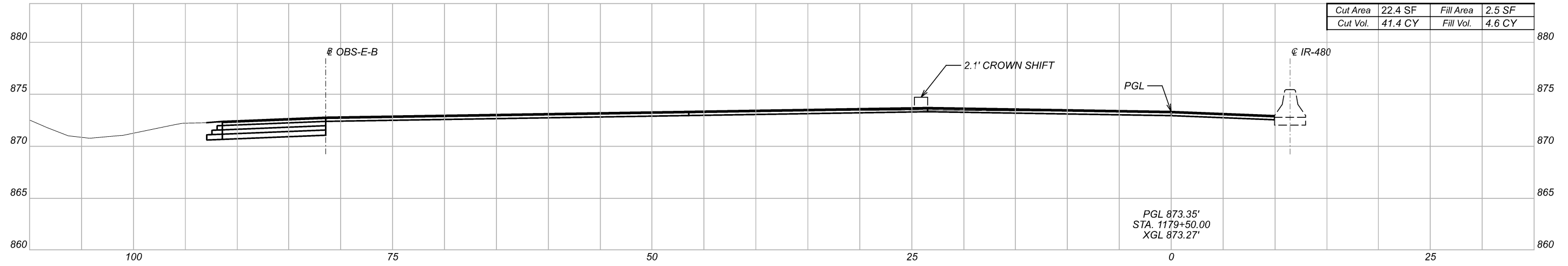
Sheet Totals		
Seeding	Cut	Fill
0	0	0

PROJECT ID	107657
DESIGNER	EJB
REVIEWER	WAA
DATE	01-11-21
SHEET	33
TOTAL	98



DESIGN AGENCY
 KS Associates Inc.
 260 Burns Road
 Elyria, Ohio 44035

CROSS SECTIONS
 STA 1138+00.00 TO STA 1139+00.00



CROSS SECTIONS
 STA 1178+50.00 TO STA 1179+50.00

DESIGN AGENCY
KS
 KS Associates Inc.
 260 Burns Road
 Elyria, Ohio 44035

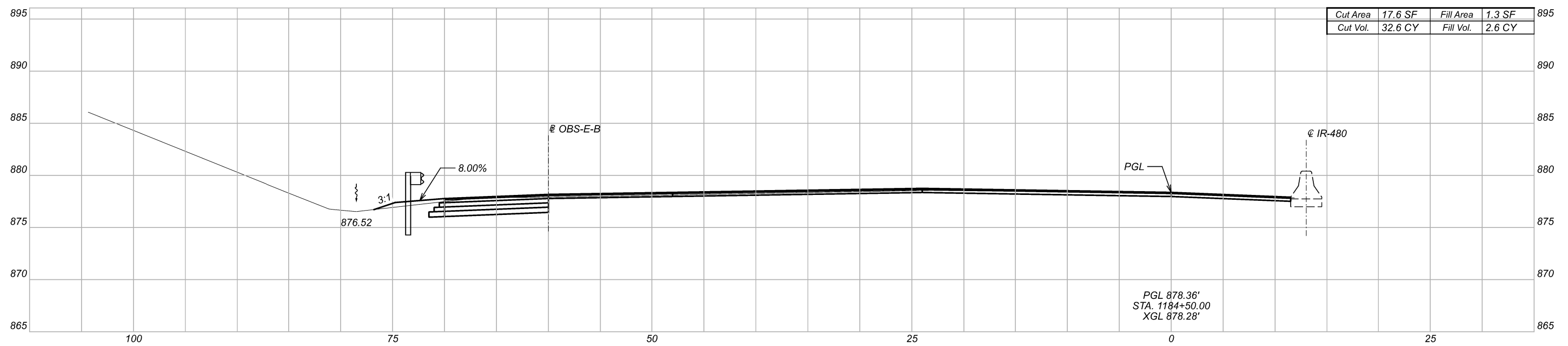
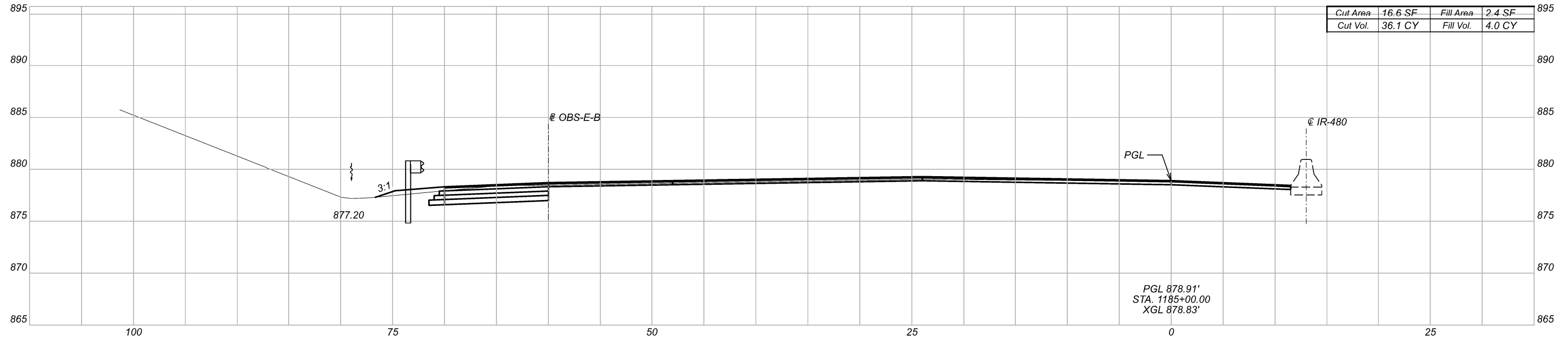
DESIGNER
 EJB

REVIEWER
 WAA 01-11-21

PROJECT ID
 107657

Sheet Totals		
Seeding	Cut	Fill
0	180.3	13.8

SHEET	TOTAL
64	98



CROSS SECTIONS
 STA 1184+50.00 TO STA 1185+00.00

DESIGN AGENCY
KS
 KS Associates Inc.
 260 Burns Road
 Elyria, Ohio 44035

DESIGNER
 EJB

REVIEWER
 WAA 01-11-21

PROJECT ID
 107657

Sheet Totals			107657
Seeding	Cut	Fill	SHEET TOTAL
0	68.7	6.6	69 98