



**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

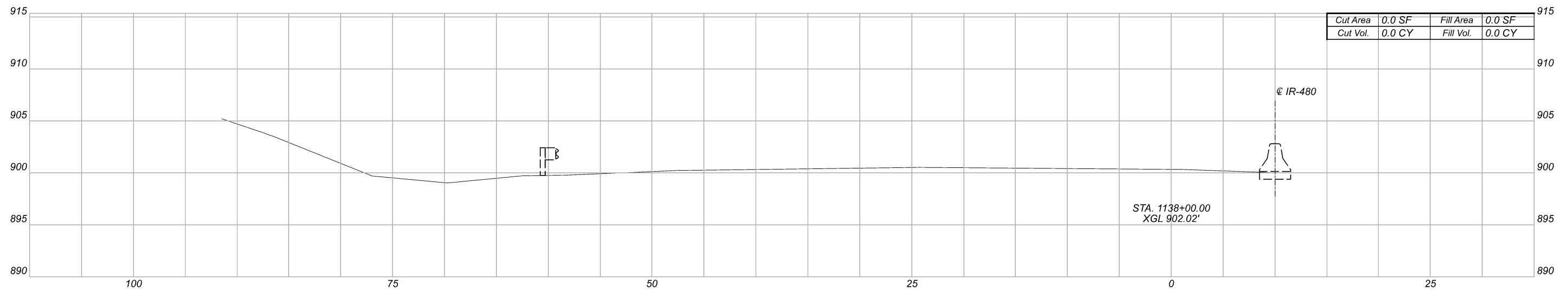
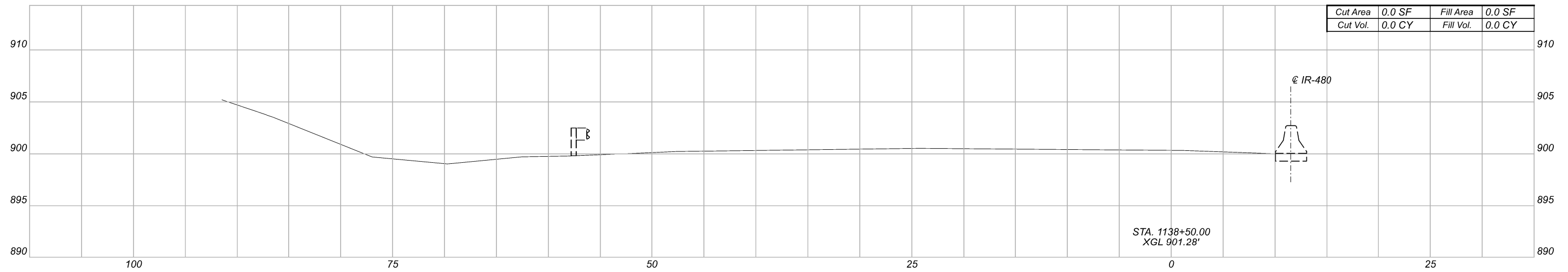
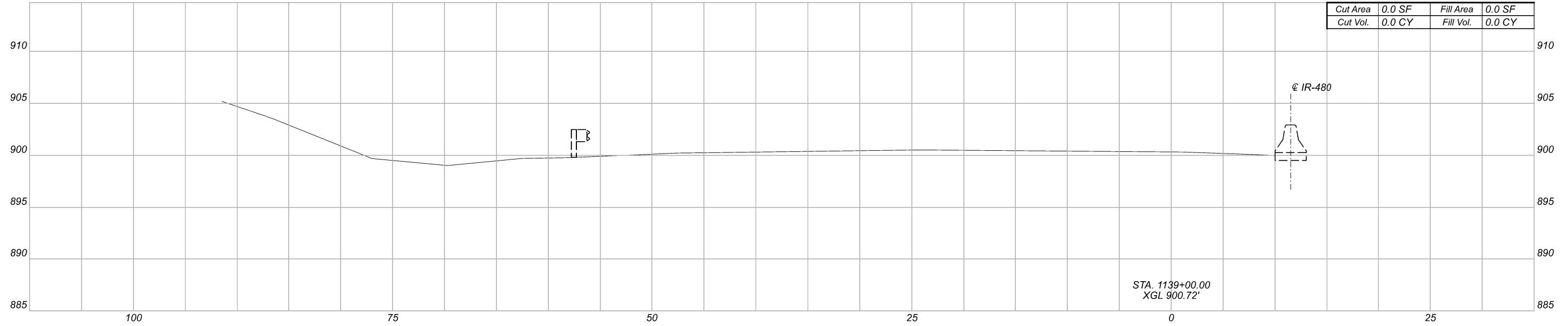
7 98

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				
											LS	201	11000	LS		ROADWAY	
											LS	202	23000	3,683	SY	CLEARING AND GRUBBING	
3,683											40	202	30700	40	FT	PAVEMENT REMOVED	
409											409	202	38000	409	FT	CONCRETE BARRIER REMOVED	
											2,228	203	10000	2,228	CY	GUARDRAIL REMOVED	
2,228											504	203	20000	504	CY	EXCAVATION	
504											3,666	204	10000	3,666	SY	EMBANKMENT	
3,666											280	204	13001	280	CY	SUBGRADE COMPACTION	
280											3	204	45000	3	HOUR	EXCAVATION OF SUBGRADE, AS PER PLAN	8
3											1	209	15051	1	MILE	PROOF ROLLING	
1											563	606	15050	563	FT	RESHAPING UNDER GUARDRAIL, AS PER PLAN	8a
563											3	606	26150	3	EACH	GUARDRAIL, TYPE MGS	
3											1	606	26550	1	EACH	ANCHOR ASSEMBLY, MGS TYPE E, (MASH 2016)	
1											3	606	35002	3	EACH	ANCHOR ASSEMBLY, MGS TYPE T	
3											2	606	35102	2	EACH	MGS BRIDGE TERMINAL ASSEMBLY, TYPE 1	
2											4	622	10201	4	EACH	MGS BRIDGE TERMINAL ASSEMBLY, TYPE 2	
4											21	622	24000	21	FT	BARRIER TRANSITION, AS PER PLAN	8
21											1	622	25000	1	EACH	CONCRETE BARRIER, TYPE D	
1											1	622	25050	1	EACH	CONCRETE BARRIER END SECTION, TYPE D	
1											16	626	00110	16	EACH	CONCRETE BARRIER, END ANCHORAGE, REINFORCED, TYPE D	
16											3,591	872	10000	3,591	FT	BARRIER REFLECTOR, TYPE 2, ONE-WAY	
3,591											EROSION CONTROL						
1											1	659	00100	1	EACH	VOID REDUCING ASPHALT MEMBRANE (VRAM)	
200											200	659	00300	200	CY	SOIL ANALYSIS TEST	
3,120											3,120	659	10000	3,120	SY	TOPSOIL	
285											285	659	14000	285	SY	SEEDING AND MULCHING	
285											285	659	15000	285	SY	REPAIR SEEDING AND MULCHING	
1											1	659	20000	1	TON	INTER-SEEDING	
1											1	659	31000	1	ACRE	COMMERCIAL FERTILIZER	
0.1											0.1	659	35000	0.1	MGAL	LIME	
0.1											0.1	659	40000	0.1	MSF	WATER	
											201	670	00200	201	SY	MOWING	
											156	671	15050	156	SY	VEGETATED SWALE EROSION PROTECTION	
											LS	832	15000	LS		EROSION CONTROL MAT, TYPE F	
											LS	832	15002	LS		STORM WATER POLLUTION PREVENTION PLAN	
											LS	832	15010	LS		STORM WATER POLLUTION PREVENTION INSPECTIONS	
25,000											25,000	832	30000	25,000	EACH	STORM WATER POLLUTION PREVENTION INSPECTION SOFTWARE	
											DRAINAGE						
											3	202	58100	3	EACH	CATCH BASIN REMOVED	
											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	8a
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



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

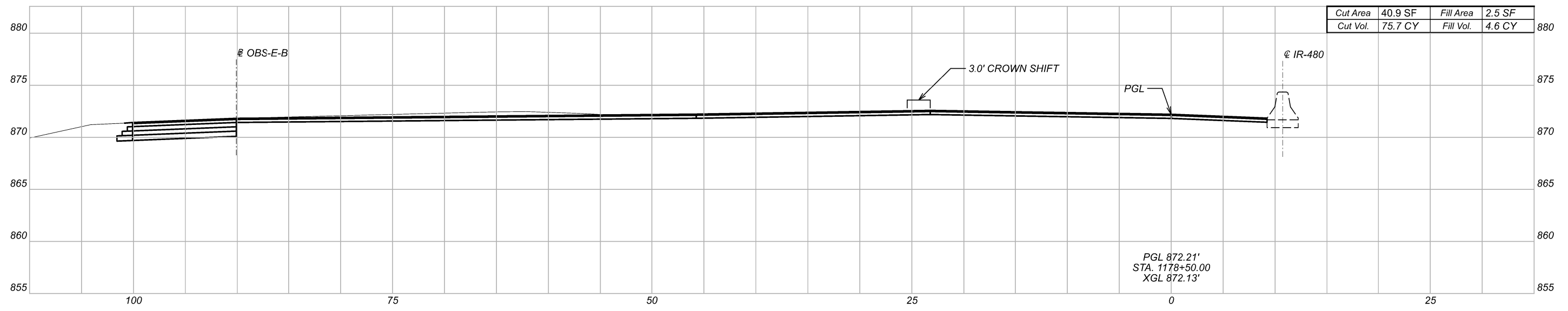
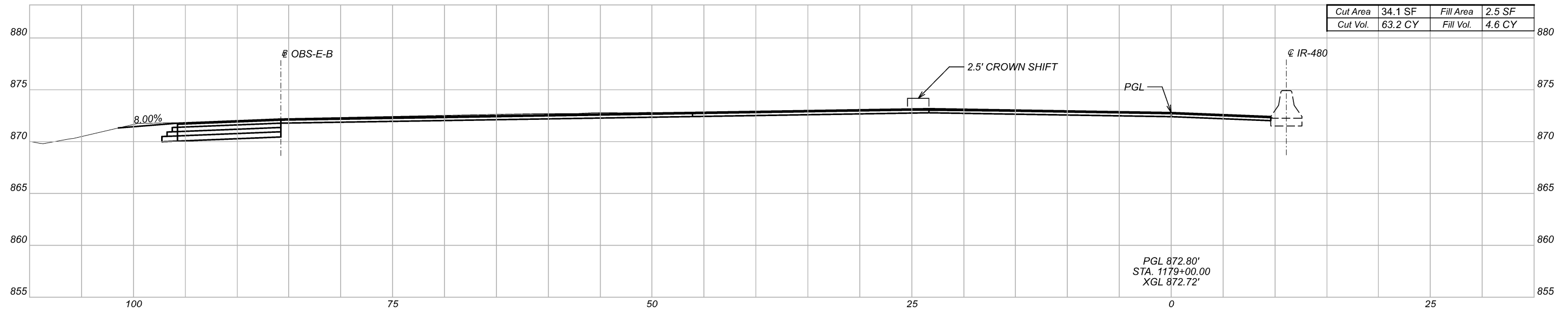
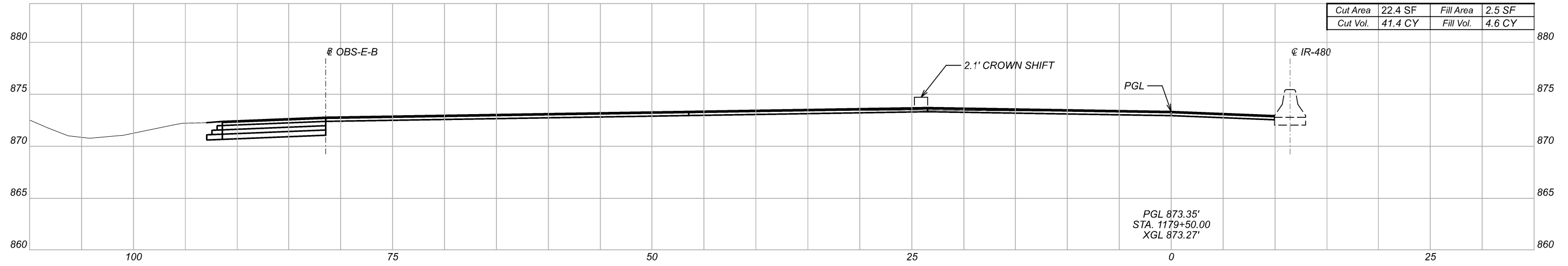
Sheet Totals		
Seeding	Cut	Fill
0	0	0

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

CROSS SECTIONS  
 STA 1138+00.00 TO STA 1139+00.00



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



CROSS SECTIONS  
 STA 1178+50.00 TO STA 1179+50.00

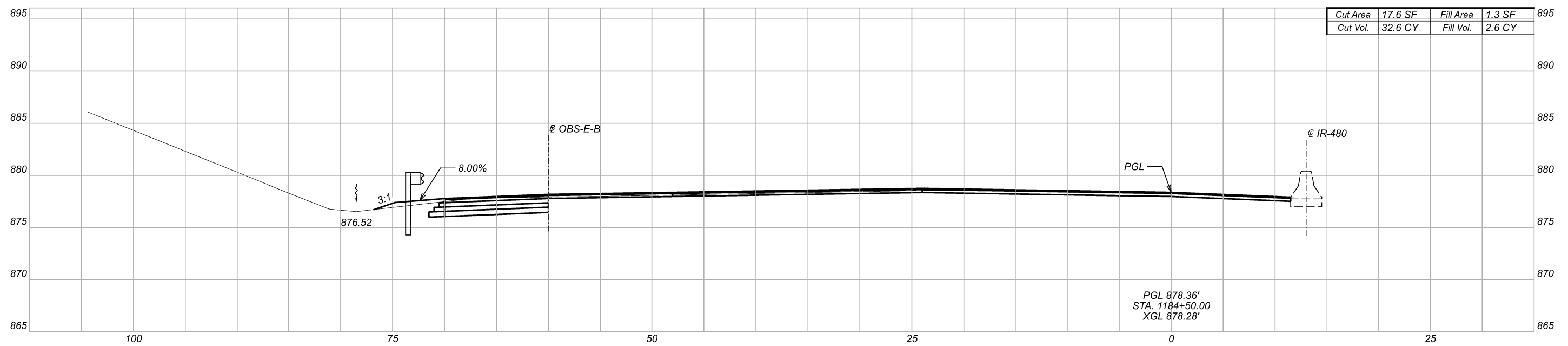
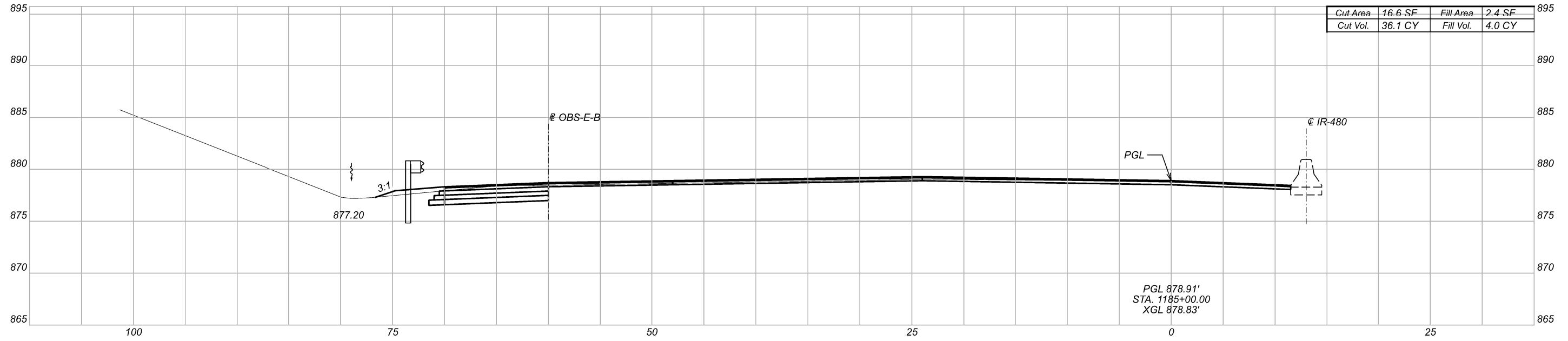


DESIGNER  
 EJB

REVIEWER  
 WAA 01-11-21

PROJECT ID  
 107657

Sheet Totals			107657
Seeding	0	180.3	13.8
Cut	64		
Fill	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