

PROJECT ID: 18112/39508802306

COUNTY: MONROE

# TOWN OF LA GRANGE MONROE COUNTY, WI

## PLAN OF PROPOSED IMPROVEMENT

# LOCAL ROADS IMPROVEMENT PROGRAM (TRID)

AT ROUTE: STH21 TOWARDS ROUTE: ELGIN AVE.

## ELLSWORTH ROAD MONROE COUNTY

STATE PROJECT NUMBER  
**18112/39508802306**

STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
39508802306		

REVISION 2 : FEBRUARY 12, 2024

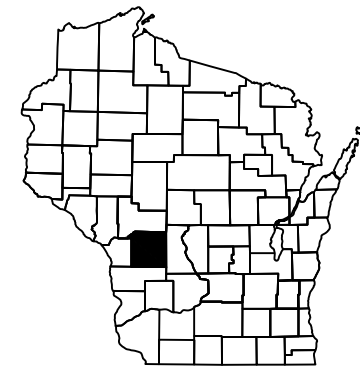
UTILITIES	
NAME	PHONE
WE ENERGIES: WG-GAS-N2WGG	(715)-837-1741
LEMONWEIR VALLEY TELEPHONE	(715) 837-1741
DAIRYLAND POWER COOPERATIVE (EL)	(608) 787-1225
CHARTER COMMUNICATIONS (COMM)	(262) 446-9821
BRIGHTSPEED (COMM)	(833) 363-2360

SHEET LIST TABLE	
SHEET NUMBER	SHEET TITLE
G1.0	TITLE PAGE
G1.1	GENERAL NOTES
C1.0-C1.1	PROJECT OVERVIEW
C1.2-C1.2.3	TRAFFIC CONTROL & DETAILS
C1.3-C1.3.2	EXISTING UTILITIES
C2.0-C2.2	EROSION CONTROL PLAN
C2.3-C2.8	EROSION CONTROL DETAILS
C3.0-C3.9	CONSTRUCTION DETAILS
C5.0-C5.14	PLAN & PROFILE
C6.0-C6.46	CROSS SECTIONS
C7.0-C7.5	PAVEMENT MARKINGS
C7.6	PAVEMENT MARKINGS DETAILS

ORDER OF SHEETS

Section No.	Title
1	Title
2	Typical Sections and Details
3	Estimate of Quantities
3	Miscellaneous Quantities
4	Right of Way Plat
5	Plan and Profile
6	Standard Detail Drawings
7	Sign Plates
8	Structure Plans
9	Computer Earthwork Data
9	Cross Sections

TOTAL SHEETS =

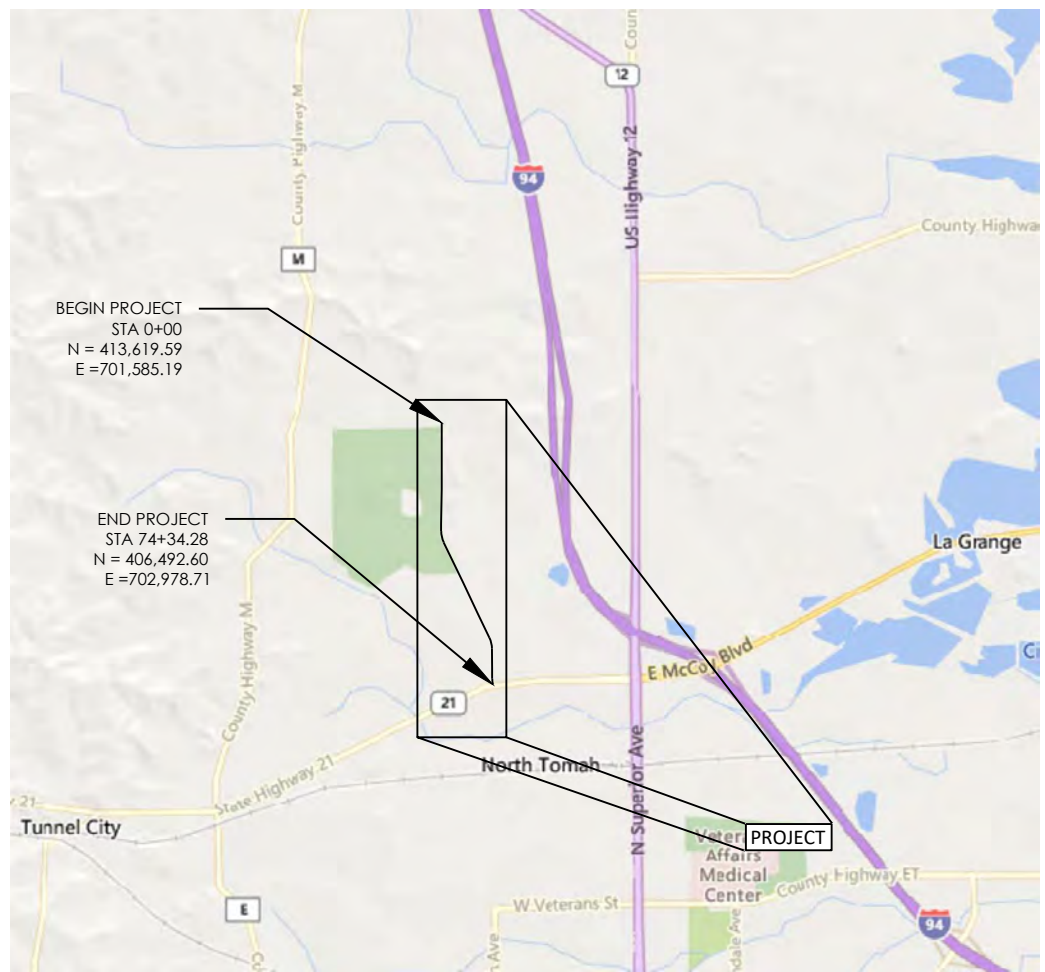


DESIGN DESIGNATION

A.A.D. TRIP 2022-2023	=	700
A.A.D.T.	=	
D.H.V.	=	
D.D.	=	
T.	=	
DESIGN SPEED	=	45 MPH
ESALS	=	

CONVENTIONAL SYMBOLS

PLAN	PROFILE
CORPORATE LIMITS	GRADE LINE
PROPERTY LINE	ORIGINAL GROUND
LOT LINE	MARSH OR ROCK PROFILE (To be noted as such)
LIMITED HIGHWAY EASEMENT	SPECIAL DITCH
EXISTING RIGHT OF WAY	GRADE ELEVATION
PROPOSED OR NEW R/W LINE	CULVERT (Profile View)
SLOPE INTERCEPT	UTILITIES
REFERENCE LINE	ELECTRIC
EXISTING CULVERT	FIBER OPTIC
PROPOSED CULVERT (Box or Pipe)	GAS
COMBUSTIBLE FLUIDS	SANITARY SEWER
MARSH AREA	STORM SEWER
WOODED OR SHRUB AREA	TELEPHONE
	WATER
	UTILITY PEDESTAL
	POWER POLE
	TELEPHONE POLE



LAYOUT  
SCALE 0 1 MI  
TOTAL NET LENGTH OF CENTERLINE = 1.4 MI

HORIZONTAL POSITIONS SHOWN ON THIS PLAN ARE WISCONSIN COORDINATE REFERENCE SYSTEM (WISCRS), MONROE COUNTY, NAD83 ( 91 ), IN U.S. SURVEY FEET. POSITIONS SHOWN ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES ARE THE SAME AS GROUND DISTANCES. ELEVATIONS ARE REFERENCED TO NAVD 88 ( 2011 ). GPS DERIVED ELEVATIONS ARE BASED ON GEOID 12A.

**CSC** CENTRAL STATES CONSTRUCTION, LLC  
15341 State Hwy 131, Tomah, WI 54660

PREPARED BY	
Surveyor	CHRIS RUNNING, RLS (RUNNING SURVEYING)
Project Engineer	SVET ROUSSEV, PE (CSC)
Reviewer	DAVID OHNSTAD, MONROE CO HWY COMMISSIONER

G1.0

**LIST OF STANDARD ABBREVIATIONS**

ABUT.	ABUTMENT	JT	JOINT	SEC	SECTION
AC	ACRE	JCT	JUNCTION	SHLDR	SHOULDER
AGG.	AGGREGATE	LHF	LEFT-HAND FORWARD	SHR	SHRINKAGE
AH	AHEAD	L	LENGTH OF CURVE	SW	SIDEWALK
<	ANGLE	LIN FT OR LF	LINEAR FOOT	S	SOUTH
ASPH	ASPHALTIC	LC	LONG CHORD OF CURVE	SQ	SQUARE
AVG.	AVERAGE	MH	MANHOLE	SF OR SQ FT	SQUARE FEET
A.D.T.	AVERAGE DAILY TRAFFIC	MB	MAILBOX	SY OR SQ YD	SQUARE YARD
BAD	BASE AGGREGATE DENSE	ML OR M/L	MATCH LINE	STD	STANDARD
BK.	BACK	N	NORTH	SDD	STANDARD DETAIL DRAWINGS
BF	BACK FACE	Y	NORTH GRID COORDIANTE	STH	STATE TRUNK HIGHWAYS
B.M	BENCH MARK	OAL	OVERALL LENGTH	STA	STATION
BR.	BRIDGE	OD	OUTSIDE DIAMETER	SS	STORM SEWER
C/L	CENTER LINE	PLE	PERMANENT LIMITED EASEMENT	SG	SUBGRADE
CC	CENTER TO CENTER	PT	POINT	SE	SUPERELEVATION
CTH	COUNTY TRUNK HIGHWAY	PC	POINT OF CURVATURE	SL OR S/L	SURVEY LINE
CR.	CREEK	PI	POINT OF INTERSECTION	SV	SEPTIC VENT
CY OR CU YD	CRUSHED CUBIC YARD	PRC	POINT OF REVERSE CURVATURE	T	TANGENT
CP	CULVERT PIPE	PT	POINT OF TANGENCY	TEL	TELEPHONE
C & G	CURB AND GUTTER	POC	POINT ON CURVE	TEMP	TEMPORARY
D	DEGREE OF CURVE	POT	POINT ON TANGENT	TI	TEMPORARY INTEREST
DHV	DESIGN HOUR VOLUME	PVC	POLYVINYL CHLORIDE	TLE	TEMPORARY LIMITED EASEMENT
DIA	DIAMETER	PCC	PORTLAND CEMENT CONCRETE	†	TON
E	EAST	LB	POUND	T OR TN	TOWN
X	EAST GRID COORDINATE	PSI	POUNDS PER SQUARE INCH	TRANS	TRANSITION
ELEC	ELECTRIC	PE	PRIVATE ENTRANCE	TL OR T/L	TRANSIT LINE
EL OR ELEV	ELEVATION	R	RADIUS	T	TRUCKS (PERCENT OF)
ESALS	EQUIVALENT SINGLE AXLE LOADS	RR	RAILROAD	TYP	TYPICAL
EBS	EXCAVATION BELOW SUBGRADE	RL OR R/L	REFERENCE LINE	UNCL	UNCLASSIFIED
FF	FACE TO FACE	RP	REFERENCE POINT	UG	UNDERGROUND CABLE
FE	FIELD ENTRANCE	RCCP	REINFORCED CONCRETE CULVERT PIPE	USH	UNITED STATES HIGHWAY
F	FILL	REQD	REQUIRED	VAR	VARIABLE
FG	FINISHED GRADE	RES	RESIDENCE OR RESIDENTIAL	V	VELOCITY OR DESIGN SPEED
FL OR F/L	FLOW LINE	RW	RETAINING WALL	VERT	VERTICAL
FT	FOOT	RT	RIGHT	VC	VERTICAL CURVE
FTG	FOOTING	RHF	RIGHT-HAND FORWARD	VOL	VOLUME
GN	GRID NORTH	R/W	RIGHT-OF-WAY	WM	WATER MAIN
HT	HEIGHT	R	RIVER	WV	WATER VALVE
CWT	HUNDREDWEIGHT	RD	ROAD	W	WEST
HYD	HYDRANT	RDWY	ROADWAY	WB	WESTBOUND
INL	INLET	SALV	SALVAGED	YD	YARD
ID	INSIDE DIAMETER	SAN S	SANITARY SEWER		
INV	INVERT				
IP	IRON PIPE OR PIN				
IRS	IRON ROD SET				

**GENERAL NOTES**

- DO NOT REMOVE ANY TREES OR SHRUBS WITHOUT APPROVAL OF THE ENGINEER.
- THERE ARE UTILITY FACILITIES WITHIN THE PROJECT AREA THAT ARE NOT SHOWN ON THE PLANS. COORDINATE CONSTRUCTION ACTIVITIES WITH A CALL TO DIGGER'S HOTLINE AND/OR A CALL TO THE UTILITIES THAT HAVE INSTALLATIONS WITHIN THE PROJECT AREA. NOT ALL UTILITIES ARE MEMBERS OF DIGGER'S HOTLINE.
- RIGHT OF WAY LINES SHOWN ON THE CROSS SECTIONS ARE APPROXIMATE.
- ALL RADII ARE MEASURED TO THE EDGE OF PAVEMENT UNLESS OTHERWISE SHOWN OR NOTED ON THE PLAN.
- CONTRACTOR SHALL MAINTAIN ACCESS TO ALL DRIVEWAYS AT ALL TIMES EXCEPT WHEN PIPE-LAYING OPERATIONS REQUIRE THE DRIVEWAY TO BE CLOSED. ACCESS TO DRIVEWAY SHALL BE RE-ESTABLISHED IMMEDIATELY AFTER PIPE IN DRIVEWAY AREA IS INSTALLED. ACCESS SHALL BE PROVIDED DURING ALL NON-WORKING HOURS.
- SAWCUT EXISTING ASPHALT PAVEMENT AT THE MATCHLINE AS INDICATED ON THE PLAN OR AS DIRECTED BY THE ENGINEER.
- EXISTING DRIVEWAYS ARE DESIGNATED IN THE FOLLOWING MANNER:  
A -- ASPHALT  
G -- GRAVEL  
C -- CONCRETE  
D -- DIRT
- PROPOSED RESIDENTIAL DRIVEWAY APPROACH TO BE REPLACED IN-KIND UNLESS EXISTING APPROACH IS DIRT OR GRAVEL; IN WHICH CASE, AN ASPHALT APPROACH IS TO BE USED. NEW FARM FIELD DRIVEWAY APPROACHES SHALL BE GRAVEL.
- THE CONTRACTOR SHALL PROVIDE A MINIMUM OF 48 HOURS NOTICE TO ALL AFFECTED RESIDENTS FOR ALL PLANNED SERVICE OUTAGES.
- ALL ASPHALT REPAIRS/REPLACEMENT SHALL BE SAWCUT TO MATCH EXISTING PAVEMENT AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER.
- ALL EXISTING ASPHALT AND GRAVEL DRIVEWAY APRONS THAT ARE REQUIRED TO BE RECONSTRUCTED SHALL BE REPLACED WITH 8" OF CRUSHED AGGREGATE BASE COURSE AND 3" OF ASPHALT. ALL EXISTING CONCRETE DRIVEWAY APRONS THAT ARE REQUIRED TO BE RECONSTRUCTED SHALL BE REPLACED WITH 6" CONCRETE.
- CONSTRUCTION LIMITS ON SIDE ROADS AND PRIVATE ENTRANCES SHALL BE DETERMINED BY THE ENGINEER AND SHALL BE RESTORED IN KIND.
- THE CONTRACTORS PAVING OPERATIONS SHALL BE CONSISTENT WITH THE PLAN TYPICAL SECTIONS AND CONSTRUCTED TO PREVENT HMA LONGITUDINAL JOINTS FROM BEING LOCATED WITHIN A DRIVING, TURNING, BIKE OR PARKING LANE.
- HMA PAVEMENT WEIGHT CALCULATIONS ARE BASED ON 112/LB/SY/IN.
- APPLY TACK COAT BETWEEN LAYERS OF PAVEMENT AND TO MILLED SURFACES. THE APPLICATION RATE IS 0.07 GALLONS PER SQUARE YARD BETWEEN THE MILLED SURFACE, 0.05 GALLONS PER SQUARE YARD BETWEEN NEW HMA PAVEMENT LAYERS, OR AS DIRECTED BY THE ENGINEER.
- THE EXACT LOCATIONS AND LIMITS OF PRIVATE ENTRANCES, COMMERCIAL, AND FIELD ENTRANCES SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD.
- ALL LAYOUT DATA IS REFERENCED TO THE C/L UNLESS OTHERWISE NOTED.
- THE QUANTITY OF THE ITEMS FOR EROSION PROTECTION INCLUDES AN UNDISTRIBUTED AMOUNT FOR PROTECTION, CONTROL AND ABATEMENT OF WATER POLLUTION RESULTING FROM SOIL EROSION. THE DISTRIBUTION AND LOCATION OF THESE MATERIALS ARE TO BE DETERMINED BY THE ENGINEER.
- DISTURBED AREAS WITHIN THE RIGHT OF WAY ARE TO BE TOPSOILED (SALVAGED), FERTILIZED, SEEDED, AND MULCHED OR HYDRO SEED OR EROSION CONTROL MAT PLACED AS DIRECTED BY THE ENGINEER.
- HMA PAVEMENT SHALL BE CONSTRUCTED WITH THE LAYERS AND GRADATION SHOWN BELOW:

**EROSION CONTROL NOTES**

- ALL EROSION CONTROL MEASURES SHALL BE IN PLACE PRIOR TO CONSTRUCTION.
- SILT FENCE & ROCK CONSTRUCTION ENTRANCE SHALL BE INSTALLED PRIOR TO ANY LAND DISTURBING ACTIVITIES, INCLUDING CLEARING & GRUBBING.
- CONTRACTOR IS RESPONSIBLE FOR WEEKLY DNR INSPECTION REPORTS IN ACCORDANCE WITH NR 216.46(9).
- ADDITIONAL EROSION CONTROL MEASURES MAY BE ADDED ON AN AS-NEEDED BASIS.
- ANY AREAS WHERE GRADING IS COMPLETE SHALL BE STABILIZED WITH FERTILIZER, SEED, & MULCH AS SOON AS POSSIBLE.
- ALL BEST MANAGEMENT PRACTICES WILL BE INSTALLED BY THE TIME THE CONSTRUCTION SITE IS CONSIDERED STABILIZED.
- A COPY OF THIS EROSION CONTROL PLAN SHALL BE KEPT ON SITE THROUGHOUT THE DURATION OF THE PROJECT.
- STOCKPILES LEFT INACTIVE FOR 7 DAYS SHALL BE SEEDDED AND SURROUNDED BY SILT FENCE.
- ALL WASTE AND UNUSED BUILDING MATERIALS (INCLUDING GARBAGE, DEBRIS, CLEANING WASTES, OR OTHER CONSTRUCTION MATERIALS) SHALL BE PROPERLY DISPOSED OF AND NOT ALLOWED TO BE CARRIED BY RUNOFF INTO RECEIVING CHANNEL.
- ALL VEHICLE TRAFFIC IS PROHIBITED WITHIN THE UNDISTURBED LAND BUFFER WHENEVER PRACTICAL.
- EROSION CONTROL MAT CLASS I, TYPE A WILL BE USED IN NON-CHANNEL AREAS AND CLASS I, TYPE B WILL BE USED IN CHANNEL AREAS.
- ALL DE-WATERING PERMITTING, IF REQUIRED, IS THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE IN ACCORDANCE WITH DNR TECHNICAL STANDARD 1061.
- TRACKING PADS SHALL BE USED AT THE CONSTRUCTION ENTRANCE AND EXITS.
- ALTHOUGH ROCK CONSTRUCTION TRACKING PADS MAY NOT BE SHOWN ON THE PLANS, THE CONTRACTOR SHALL INSTALL THEM AS NECESSARY OR AS DIRECTED BY THE ENGINEER TO MINIMIZE TRACKING ONTO ADJACENT ROADS. THESE PADS ARE CONSIDERED INCIDENTAL TO THE WORK AND WILL NOT BE MEASURED OR PAID FOR SEPARATELY.

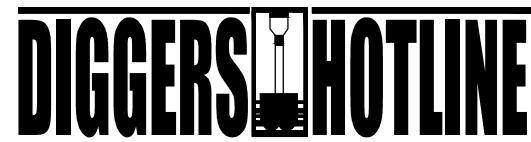
**STORM SEWER**

- ROAD CULVERTS ARE REINFORCED CONCRETE, CLASS III, PIPES WITH RC END SECTION.
- DRIVEWAY CULVERTS ARE 15" DIA. CORRUGATED METAL PIPES, 16 GAUGE.
- LISTED CULVERT PIPE LENGTHS ARE INCLUSIVE OF END SECTIONS.

**LIST OF STANDARD LINETYPES**

———— CTV ————	UNDERGROUND CABLE TV
——— FO ———— FO ————	UNDERGROUND FIBER OPTIC UTILITY
——— EL ———— EL ————	UNDERGROUND ELECTRIC
———— TEL ————	UNDERGROUND TELEPHONE
——— GAS ————	UNDERGROUND GAS UTILITY
——— OH ———— OH ————	OVERHEAD ELECTRIC

UTILITIES	
NAME	PHONE
WE ENERGIES: WG-GAS-N2WGG	(715)-837-1741
LEMONWEIR VALLEY TELEPHONE	(715) 837-1741
DAIRYLAND POWER COOPERATIVE (EL)	(608) 787-1225
CHARTER COMMUNICATIONS (COMM)	(262) 446-9821
BRIGHTSPEED (COMM)	(833) 363-2360



Dial **811** or (800)242-8511

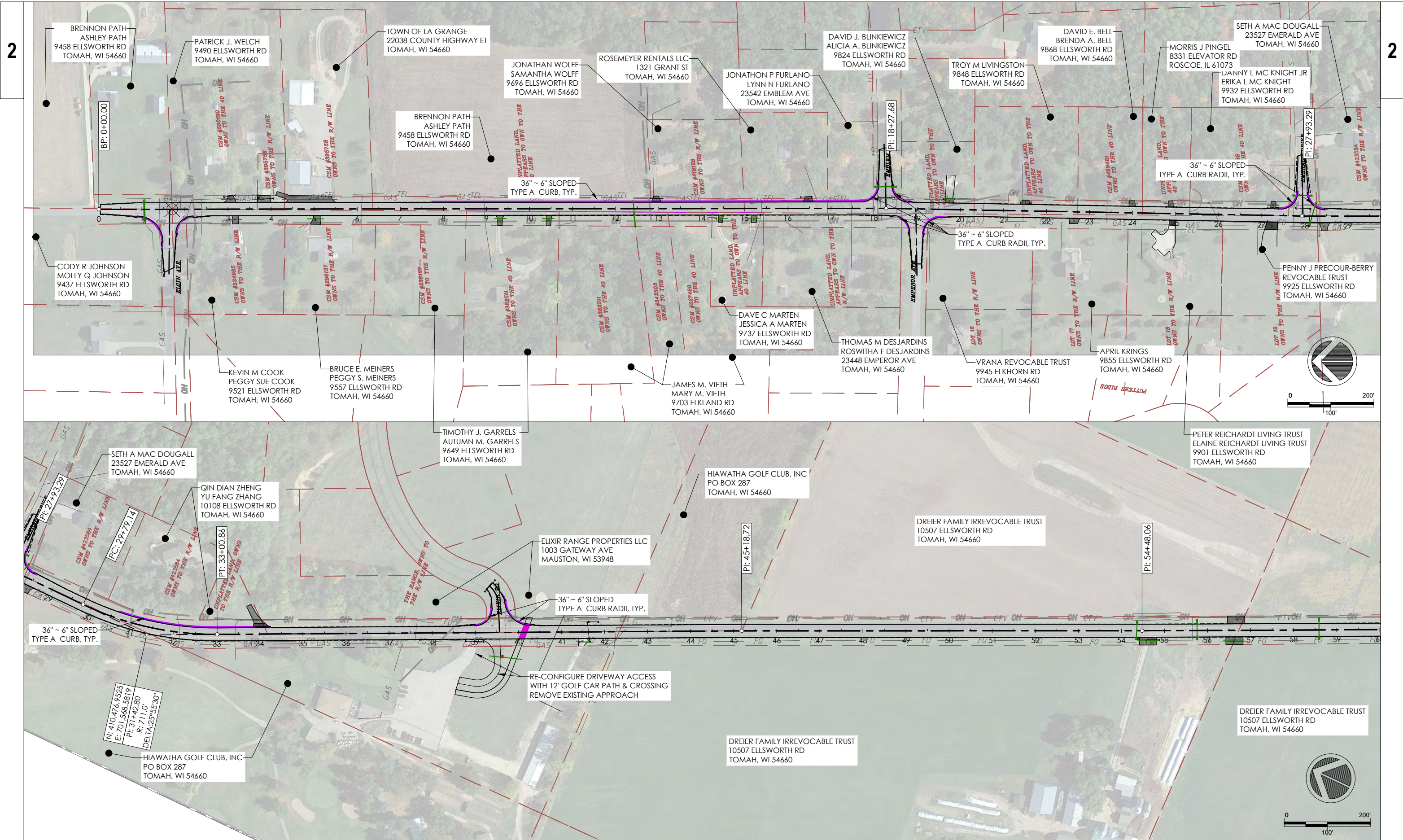
www.DiggersHotline.com

**HMA PAVEMENT**

LOCATION	HMA	LOWER LAYER	UPPER LAYER
ELLSWORTH RD	4 LT 58-28S	-	2.5 "

**HMA PAVEMENT (ALTERNATE -A)**

LOCATION	HMA	LOWER LAYER	UPPER LAYER
ELLSWORTH RD	4 LT 58-28S	-	1.75 "
ELLSWORTH RD	3 LT 58-28S	1.75"	-



PROJECT NO: 18112/39508802306

HWY: ELLSWORTH RD

COUNTY: MONROE COUNTY

PROJECT OVERVIEW

SHEET **C1.0** **E**

FILE NAME: F:\Q2\2023\Q23189 ELLSWORTH RD T LA GRANGE\CAD\C1.0-C1.1.DWG  
LAYOUT NAME - C1.0

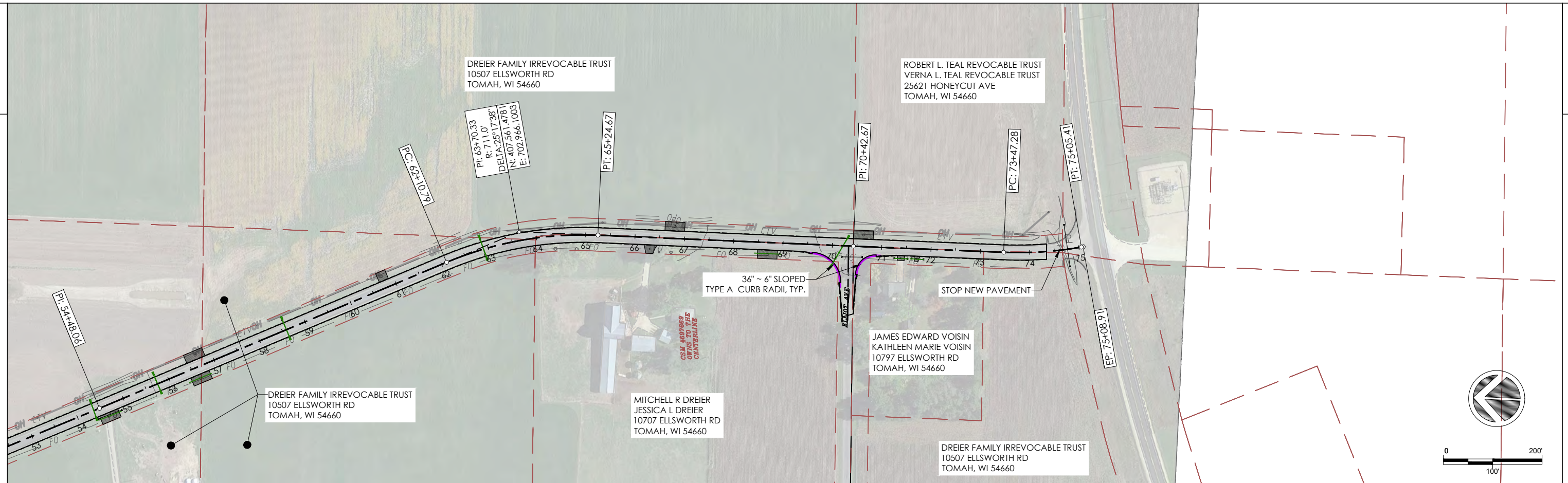
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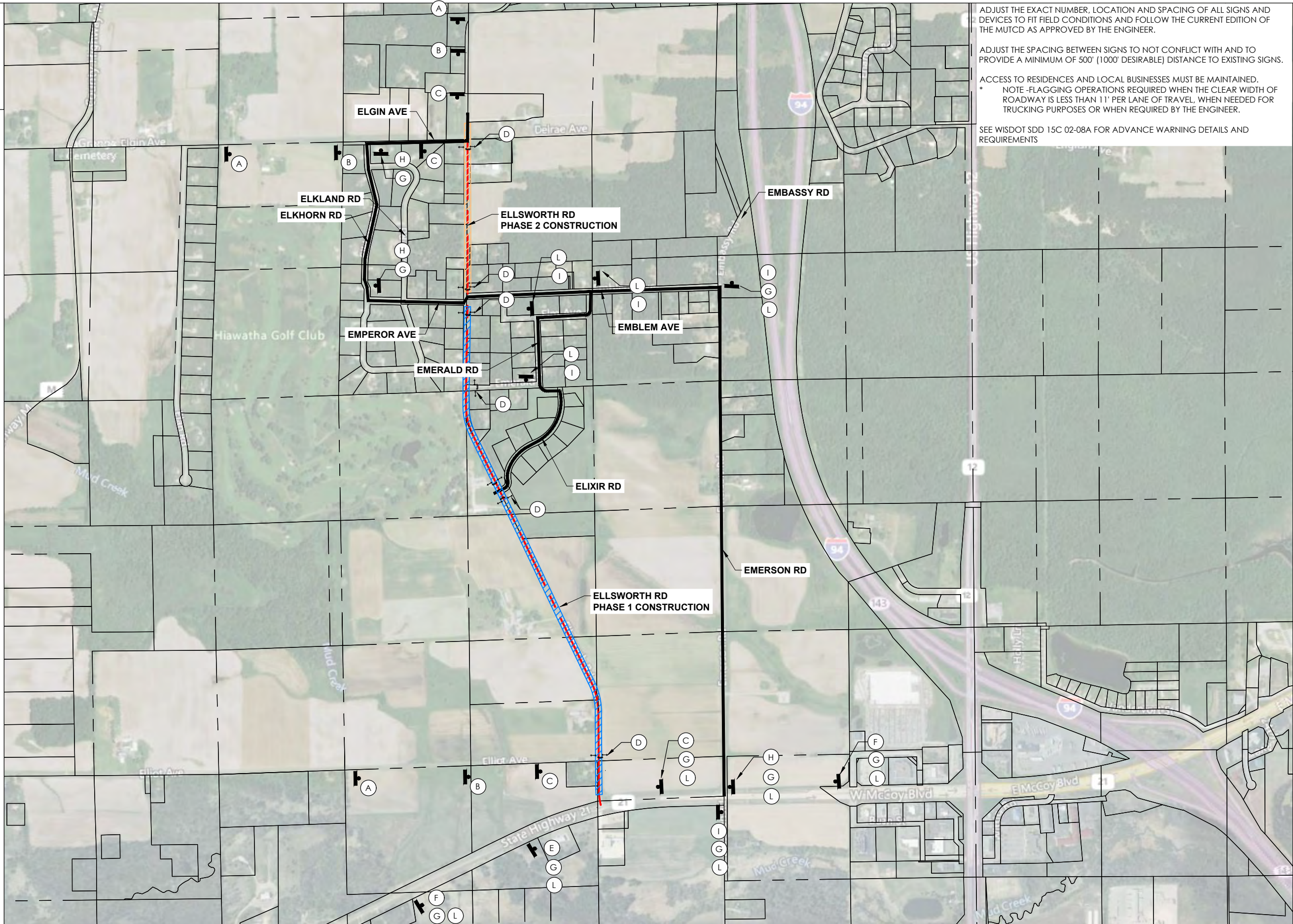
PLOT BY: SSR

PLOT NAME:

PLOT SCALE: 1 IN:200 FT

WISDOT/CADD SHEET 44





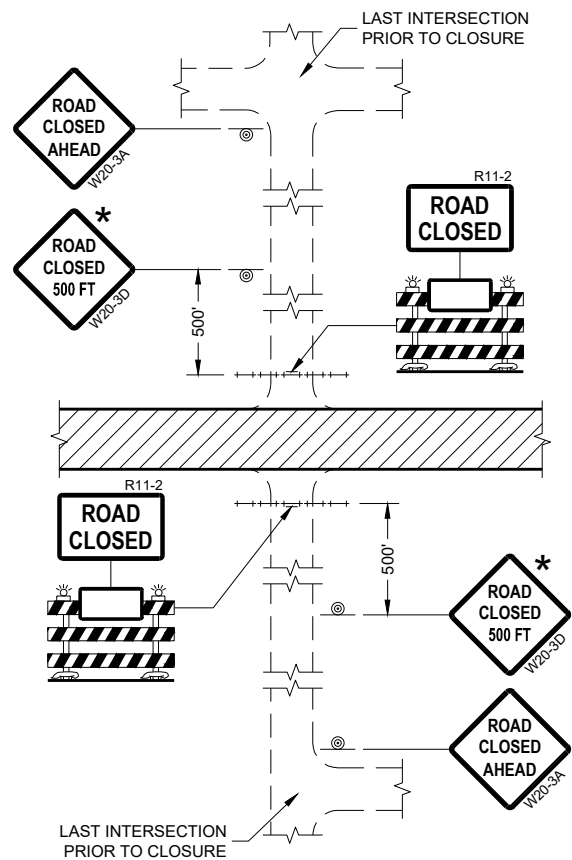
ADJUST THE EXACT NUMBER, LOCATION AND SPACING OF ALL SIGNS AND DEVICES TO FIT FIELD CONDITIONS AND FOLLOW THE CURRENT EDITION OF THE MUTCD AS APPROVED BY THE ENGINEER.

ADJUST THE SPACING BETWEEN SIGNS TO NOT CONFLICT WITH AND TO PROVIDE A MINIMUM OF 500' (1000' DESIRABLE) DISTANCE TO EXISTING SIGNS.

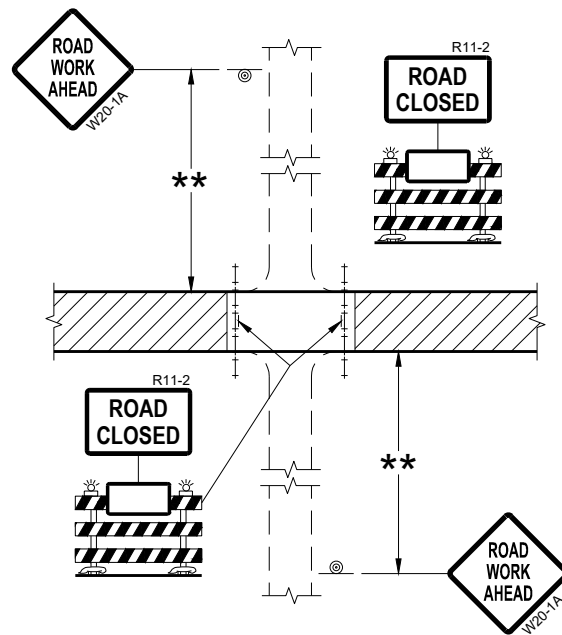
ACCESS TO RESIDENCES AND LOCAL BUSINESSES MUST BE MAINTAINED.  
 \* NOTE -FLAGGING OPERATIONS REQUIRED WHEN THE CLEAR WIDTH OF ROADWAY IS LESS THAN 11' PER LANE OF TRAVEL, WHEN NEEDED FOR TRUCKING PURPOSES OR WHEN REQUIRED BY THE ENGINEER.

SEE WISDOT SDD 15C 02-08A FOR ADVANCE WARNING DETAILS AND REQUIREMENTS

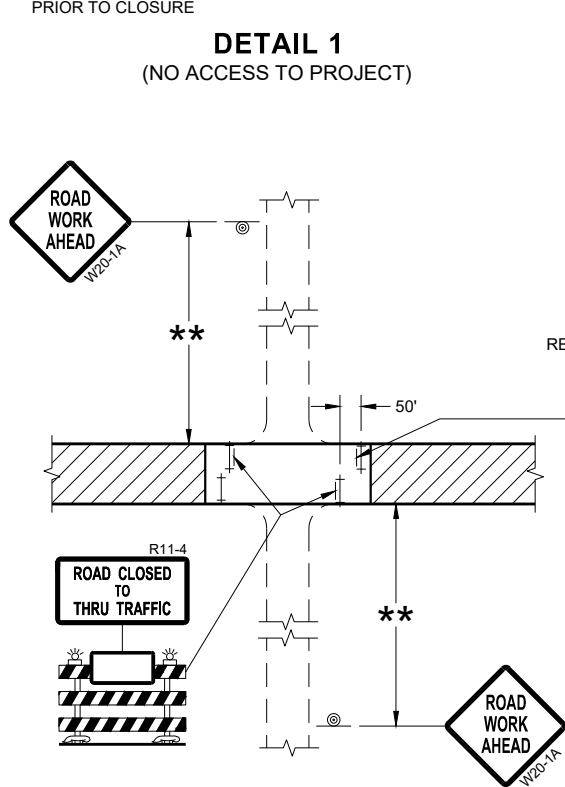
- (A) ROAD CLOSED AHEAD W20-3A
- (B) ROAD CLOSED 1000 FT W20-3C
- (C) ROAD CLOSED 500 FT W20-3D
- (D) R11-4 60" X 30" ROAD CLOSED TO THRU TRAFFIC TYPE III BARRICADE
- (E) DETOUR AHEAD W20-2A
- (F) DETOUR 1500 FT W20-2B
- (G) ELLSWORTH RD
- (H) DETOUR M4-9R 30"X24"
- (I) DETOUR M4-9L 30"X24"
- (J) WEST M3-4 or MM3-4 or MP3-4 24"X12"
- (K) DETOUR AHEAD M4-9A 30"X18"
- (L) HIAWATHA GOLF



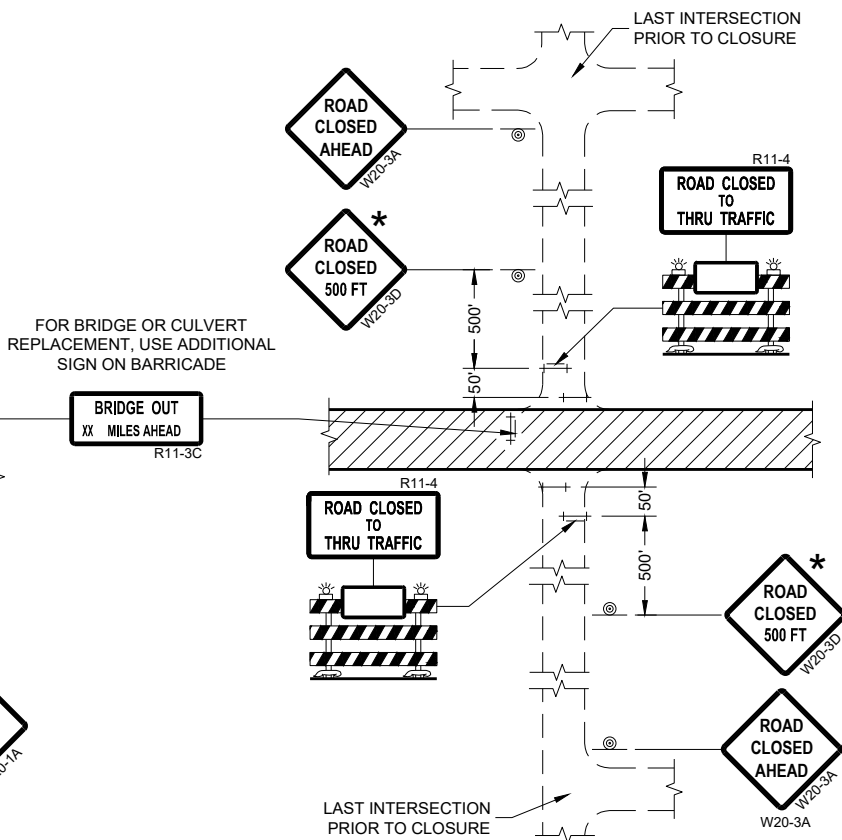
**DETAIL 1**  
(NO ACCESS TO PROJECT)



**DETAIL 2**  
(PUBLIC CROSS-TRAFFIC MAINTAINED.  
NO ACCESS TO PROJECT)



**DETAIL 3**  
(PUBLIC CROSS-TRAFFIC MAINTAINED.  
CONTRACTOR, LOCAL BUSINESS AND  
RESIDENT ACCESS TO PROJECT)



**DETAIL 4**  
(CONTRACTOR, LOCAL BUSINESS AND  
RESIDENT ACCESS TO PROJECT)

**GENERAL NOTES**

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND BARRICADES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE (500 FEET DESIRABLE) TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

IF A "STOP" SIGN MUST BE REMOVED FOR A WORK OPERATION, A TEMPORARY "STOP" SIGN SHALL BE PLACED PRIOR TO THE SIGN REMOVAL, OR A FLAGGER SHALL BE PROVIDED UNTIL THE SIGN IS REESTABLISHED.

BARRICADES THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY REESTABLISHED UPON COMPLETION OF THE OPERATION OR FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

SIGNS THAT WILL BE IN PLACE LESS THAN SEVEN CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

ALL TYPE III BARRICADES SHALL HAVE RAILS REFLECTORIZED ON BOTH FACES. STRIPES SHALL BE PROPERLY SLOPED DOWN TOWARD THE TRAFFIC SIDE OR AS SHOWN IN THE ROAD CLOSURE BARRICADE DETAIL "D" FOR FULL ROAD CLOSURES.

TYPE "A" LOW-INTENSITY FLASHING WARNING LIGHTS SHALL BE VISIBLE ON BOTH SIDES OF THE BARRICADE.

THE R11-2, R11-3, AND R11-4 SIGNS PLACED ON BARRICADES SHALL COVER NO MORE THAN THE TOP RAIL. THE SIGNS SHALL NOT COVER ANY PORTION OF THE MIDDLE OR BOTTOM RAILS.

ALL SIGNS SHALL BE 48" X 48" UNLESS OTHERWISE NOTED BELOW:  
R11-2 SHALL BE 48" X 30".  
R11-4 AND R11-3 SHALL BE 60" X 30".

- \* OMIT THE "ROAD CLOSED 500 FT." SIGN IF THE LAST INTERSECTION IS 500 FEET OR LESS FROM THE WORK ZONE.
- \*\* 500' MAX. OR AT LAST INTERSECTION, WHICHEVER IS CLOSEST.

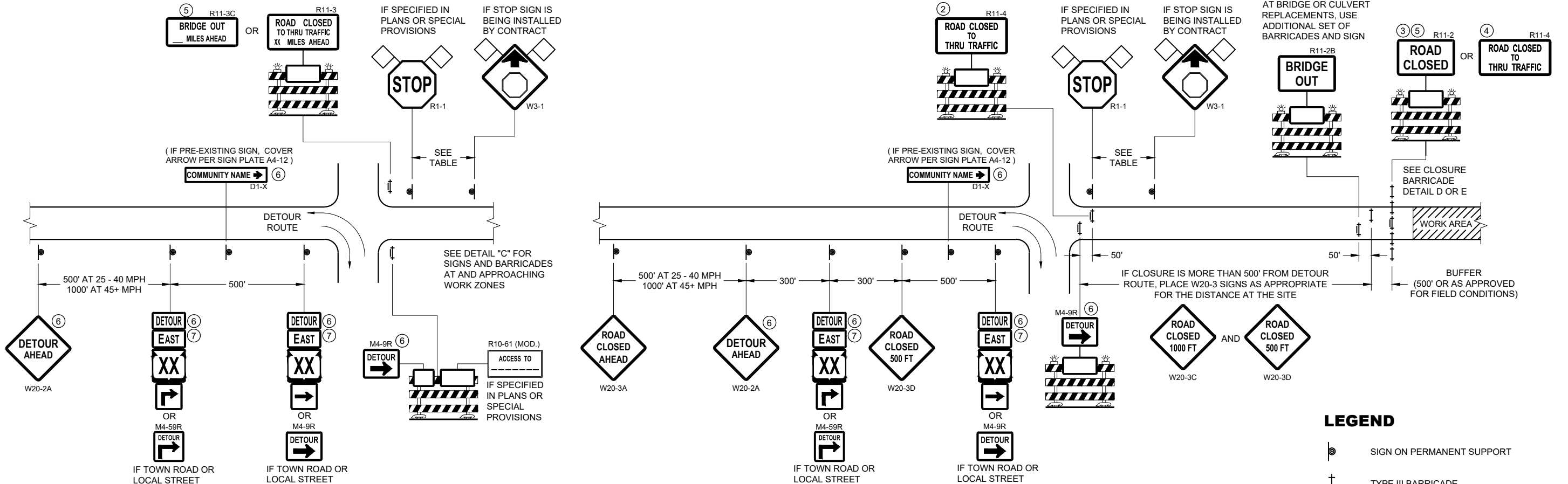
**LEGEND**

- ⊙ SIGN ON PERMANENT SUPPORT
- ⊥ TYPE III BARRICADE
- ⊥ TYPE III BARRICADE WITH ATTACHED SIGN
- ⚡ TYPE "A" WARNING LIGHT (FLASHING)
- ▨ WORK AREA

**BARRICADES AND SIGNS  
FOR  
SIDEROAD CLOSURES**

STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION

APPROVED  
July 2018 /S/ Andrew Heidtke  
DATE WORK ZONE ENGINEER



**DETAIL A  
MAINLINE CLOSURE WITH POSTED DETOUR**

WORK ZONE GREATER THAN OR EQUAL TO 1/2 MILE FROM  
DETOUR ROUTE ( 1000 FEET IF URBAN )

**DETAIL B  
MAINLINE CLOSURE WITH POSTED DETOUR**

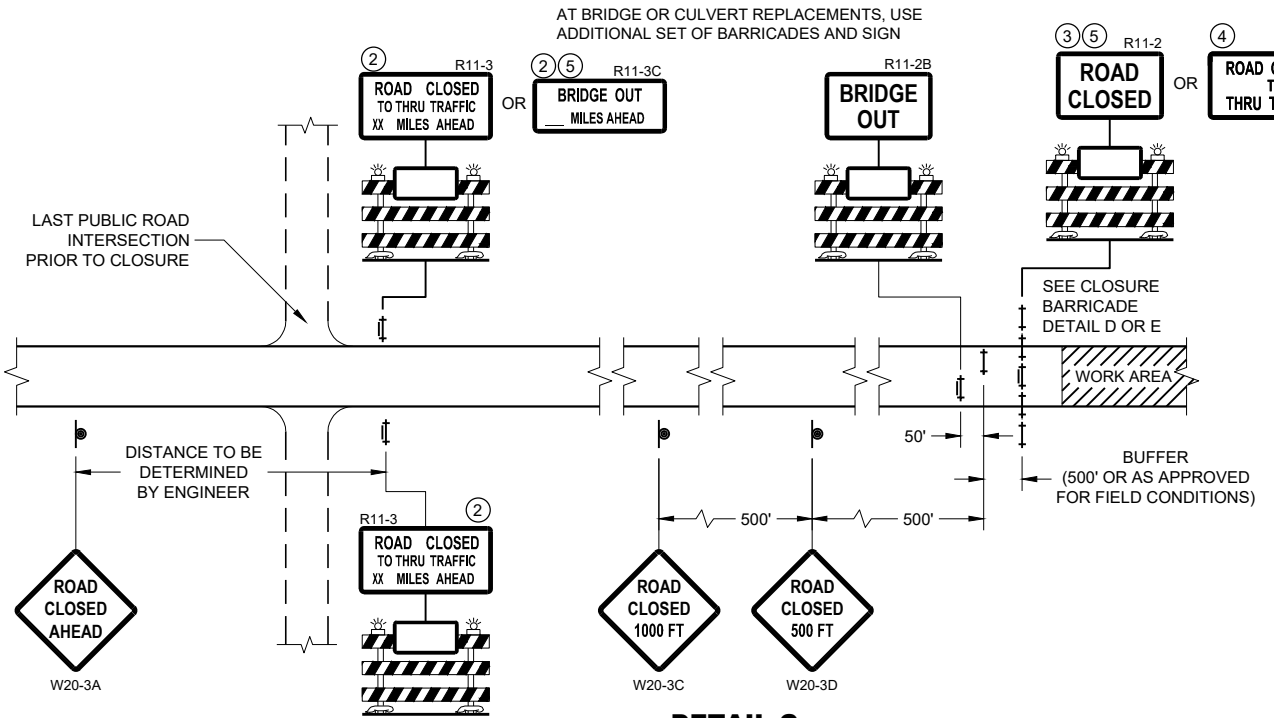
WORK ZONE LESS THAN 1/2 MILE FROM  
DETOUR ROUTE ( 1000 FEET IF URBAN )

**LEGEND**

- SIGN ON PERMANENT SUPPORT
- TYPE III BARRICADE
- TYPE III BARRICADE WITH ATTACHED SIGN
- TYPE "A" WARNING LIGHT (FLASHING)
- WORK AREA
- FLAGS, 16" X 16" MIN. (ORANGE)

SPEED LIMIT (MPH)	"STOP AHEAD" ADVANCE WARNING DISTANCE (FT)
25	200
30	200
35	350
40	350
45	500
50	550
55	750

- M4 - 8
- M3 - X
- OR OR M1 - 4 M1 - 6 M1 - 5A
- OR M05 - 1 M06 - 1



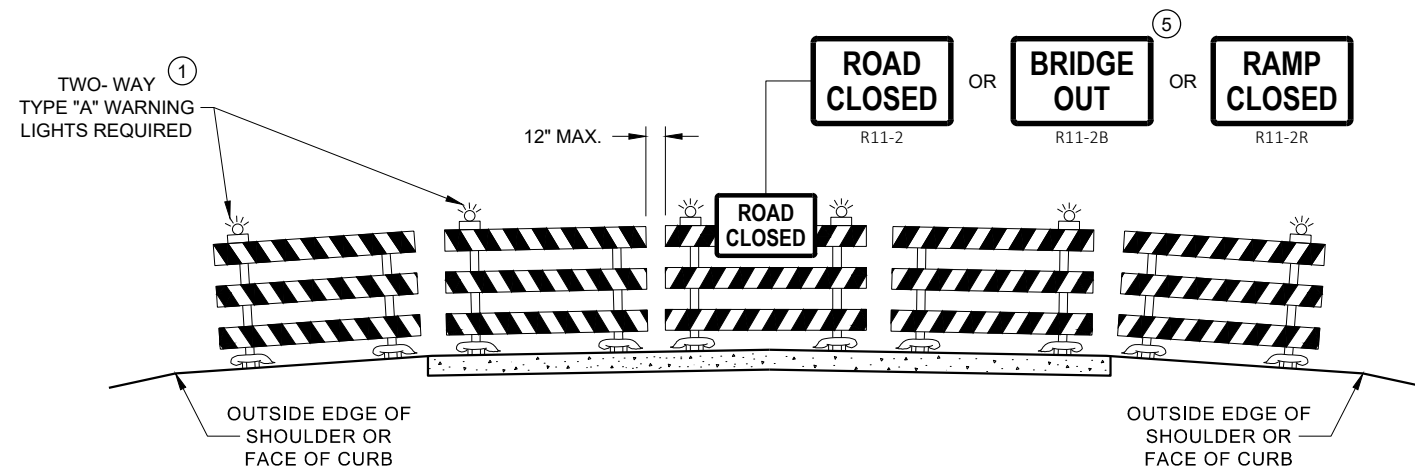
**DETAIL C  
MAINLINE CLOSURE, NO POSTED DETOUR**

SEE SDD 15C2-SHEET "b"  
FOR GENERAL NOTES  
AND FOOTNOTES ① THROUGH ⑦

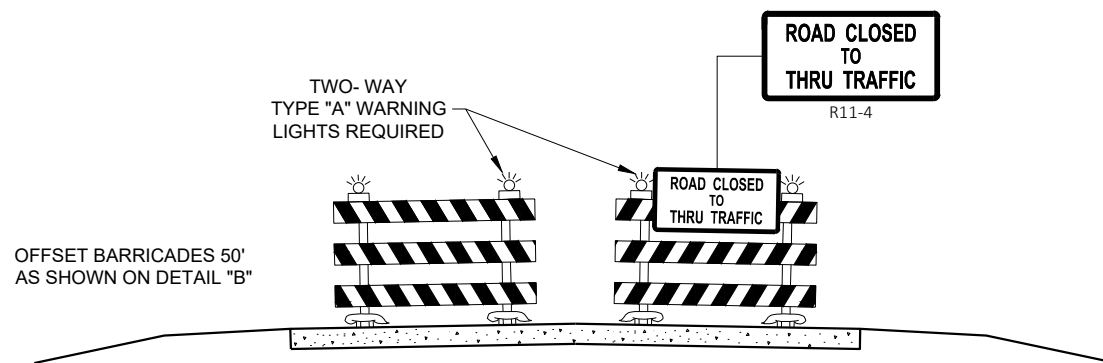
**BARRICADES AND SIGNS  
FOR MAINLINE CLOSURES**

STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION

APPROVED  
February 2020 /S/ Andrew Heidtke  
DATE WORK ZONE ENGINEER



**DETAIL D  
ROAD CLOSURE BARRICADE DETAIL  
APPROACH VIEW**



**DETAIL E  
LANE CLOSURE BARRICADE DETAIL  
APPROACH VIEW**

SEE SDD 15C2 - SHEET "a" FOR LEGEND

**GENERAL NOTES**

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND BARRICADES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

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BARRICADES THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY RE-ESTABLISHED UPON COMPLETION OF THE OPERATION, OR FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

ALL TYPE III BARRICADES SHALL HAVE RAILS REFLECTORIZED ON BOTH FACES. STRIPES SHALL BE PROPERLY SLOPED DOWN TOWARD THE TRAFFIC SIDE OR AS SHOWN IN THE ROAD CLOSURE BARRICADE DETAIL "D" FOR FULL ROAD CLOSURES.

TYPE "A" LOW - INTENSITY FLASHING WARNING LIGHTS SHALL BE VISIBLE ON BOTH SIDES OF THE BARRICADE.

THE R11 - 2, R11 - 3, M4 - 9, R11 - 4, AND R10 - 61 SIGNS PLACED ON THE BARRICADES SHALL COVER NO MORE THAN THE TOP RAIL. THE SIGNS SHALL NOT COVER ANY PORTION OF THE MIDDLE RAIL OR BOTTOM RAILS.

"WO" AND "MO" SIGNS ARE THE SAME AS "W" AND "M" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

ALL SIGNS SHALL BE 48" X 48" UNLESS OTHERWISE NOTED BELOW:

- R11 - 2 SHALL BE 48" X 30"
- R11 - 3 SHALL, R11 - 4 AND R10 - 61 SHALL BE 60" X 30"
- M4 - 9 SHALL BE 30" X 24"
- M3 - X SHALL BE 24" X 12" (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS)
- M4 - 8 SHALL BE 24" X 12" (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS)
- M1 - 4, M1 - 5A AND M1 - 6 SHALL BE 24" X 24" (36" X 36" IF NEEDED TO MATCH EXISTING SIGNS)
- MO5 - 1 AND MO6 - 1 SHALL BE 21" X 21" (30" X 30" IF NEEDED TO MATCH EXISTING SIGNS)
- D1 - X SHALL BE AS SHOWN ON SPECIFIC PROJECT SIGNING DETAIL SHEETS.
- R1 - 1 SHALL BE 36" X 36"

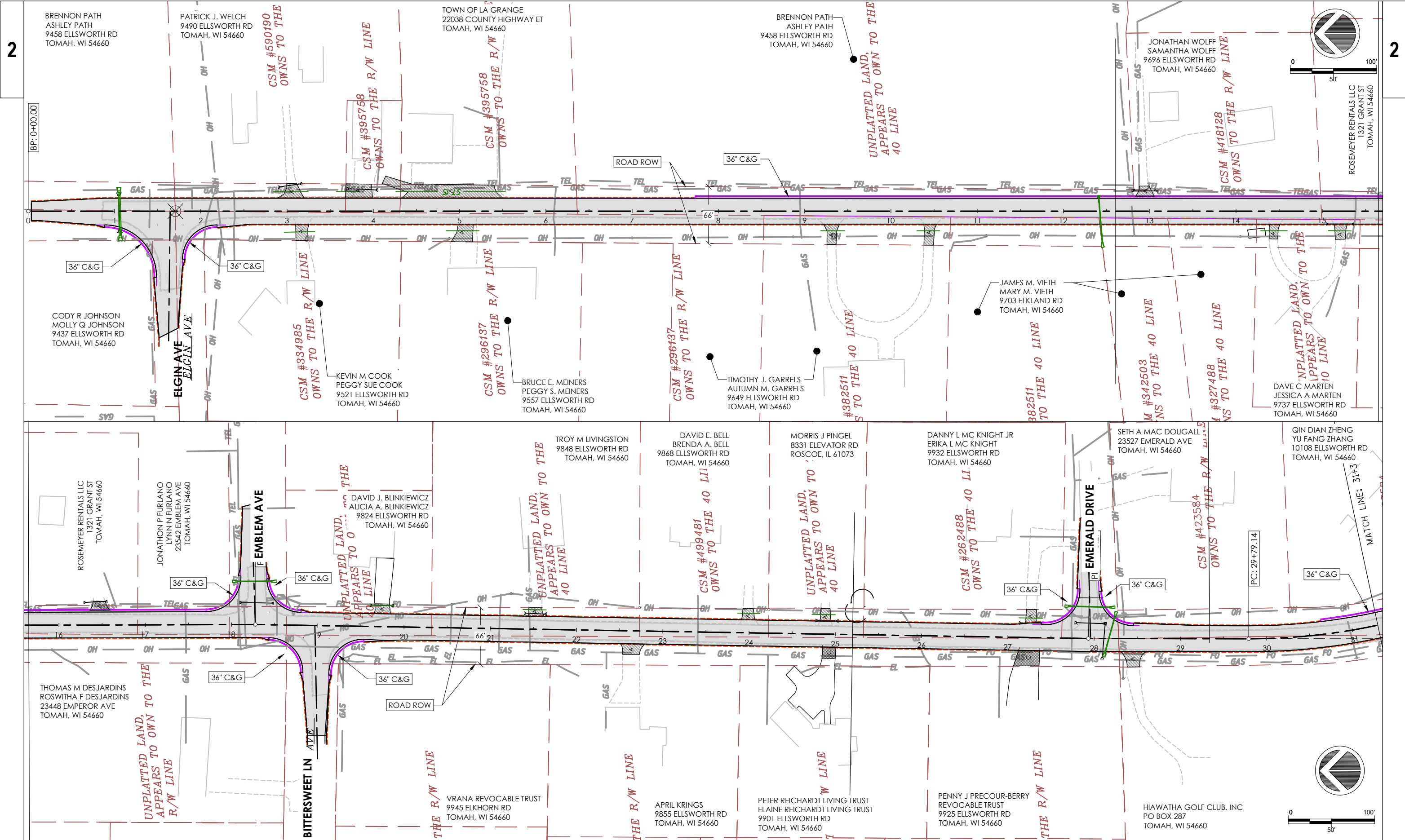
- ① TWO WARNING LIGHTS SHALL BE PROVIDED ON THE CENTER BARRICADE AND A MINIMUM OF ONE WARNING LIGHT SHALL BE PROVIDED ON EACH OF THE OTHER BARRICADES WITHIN THE ROADWAY LIMITS. SPACING OF THE WARNING LIGHTS SHALL BE UNIFORM TO THE EDGE OF ROADWAY AS SHOWN (APPROX. 8 FOOT LIGHT SPACING).
- ② THESE SIGNS AND BARRICADES ARE NOT REQUIRED IF ROAD CLOSURE BEGINS AT AN INTERSECTION.
- ③ FOR ROAD CLOSURE WITHOUT LOCAL ACCESS TO PROJECT, SEE ROAD CLOSURE BARRICADE DETAIL "D".
- ④ FOR ROAD CLOSURE WITH LOCAL ACCESS TO PROJECT, SEE ROAD CLOSURE BARRICADE DETAIL "E".
- ⑤ FOR BRIDGE OR CULVERT REPLACEMENTS, SUBSTITUTE "BRIDGE OUT" INSTEAD OF "ROAD CLOSED" ON R11 - 2 AND R11 - 3 SIGNS.
- ⑥ INSTALL DETOUR AND COMMUNITY GUIDE SIGNS AND ARROWS ONLY IF SPECIFIED IN THE CONTRACT. IF THERE ARE EXISTING ROUTE MARKER ASSEMBLIES THAT WILL REMAIN IN PLACE, ADJUST THE LOCATION OF THE DETOUR ROUTE SIGNS TO CORRESPOND WITH THE EXISTING ASSEMBLIES. MODIFY EXISTING SIGNS WHERE POSSIBLE. SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS. IF DETOUR SIGNS ARE BEING INSTALLED BY OTHERS, PLACE THE CONTRACTED TRAFFIC CONTROL SIGNS TO ALLOW FOR PLACEMENT OF ALL WARNING, DETOUR AND GUIDE SIGNS AS SHOWN.
- ⑦ "EAST" CARDINAL DIRECTION MARKERS AND RIGHT TURN ARROWS ARE SHOWN. USE OTHER CARDINAL DIRECTIONS AND ARROWS AS APPROPRIATE.

**BARRICADES AND SIGNS  
FOR  
VARIOUS CLOSURES**

STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION

APPROVED  
February 2020 /S/ Andrew Heidtke  
DATE WORK ZONE ENGINEER





PROJECT NO: 18112/39508802306

HWY: ELLSWORTH RD

COUNTY: MONROE COUNTY

EXISTING UTILITIES

SHEET **C1.3**

**E**

FILE NAME : F:\Q2\2023\Q23189 ELLSWORTH RD T LA GRANGE\CADD\DBL\_PLAN.DWG  
LAYOUT NAME - C1.2

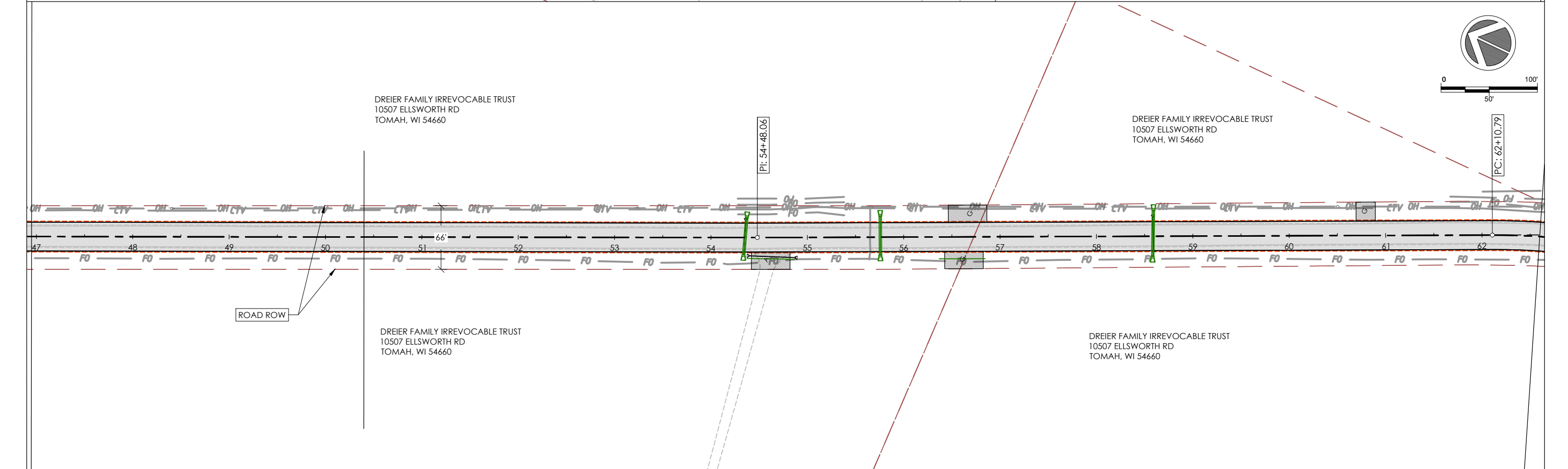
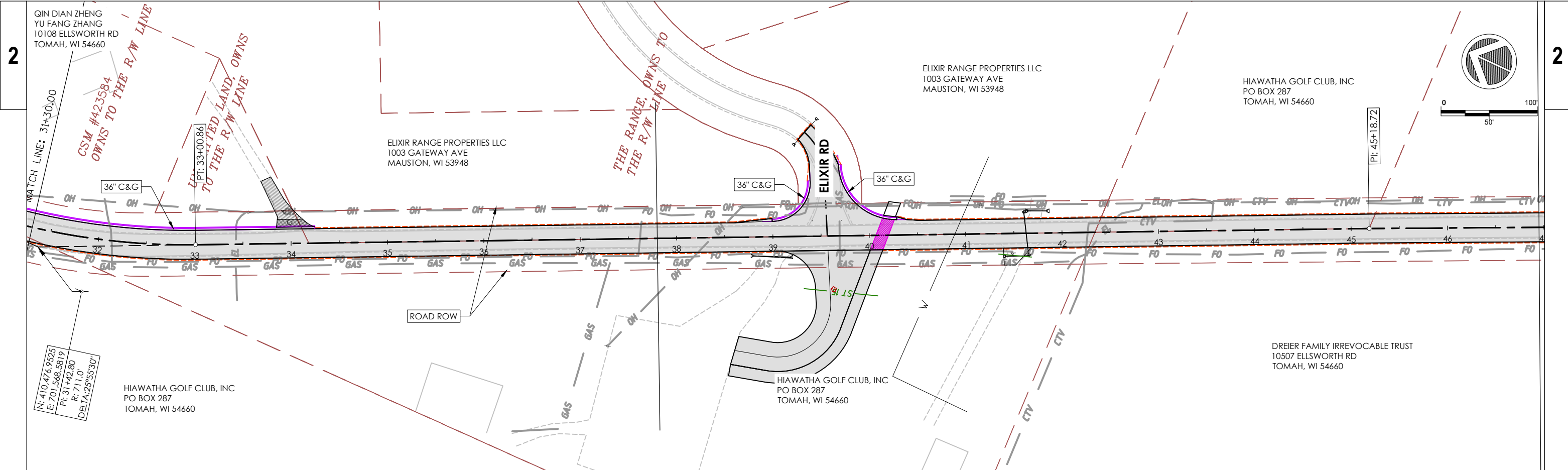
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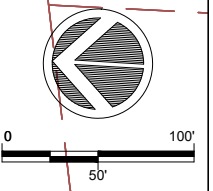
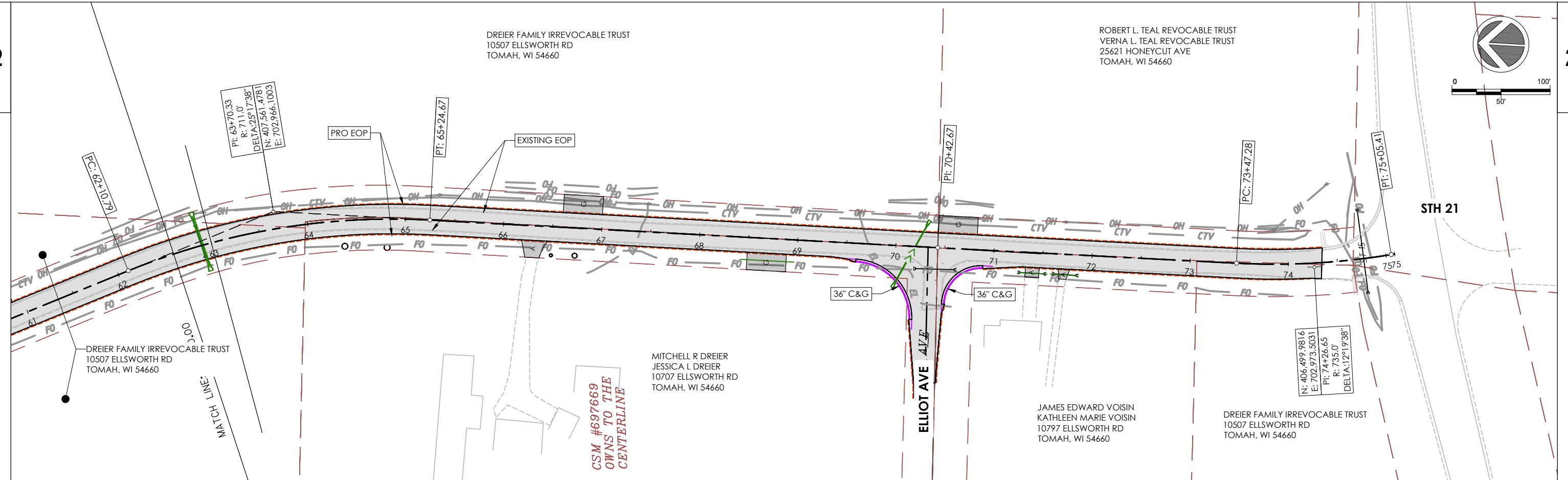
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PLOT NAME :

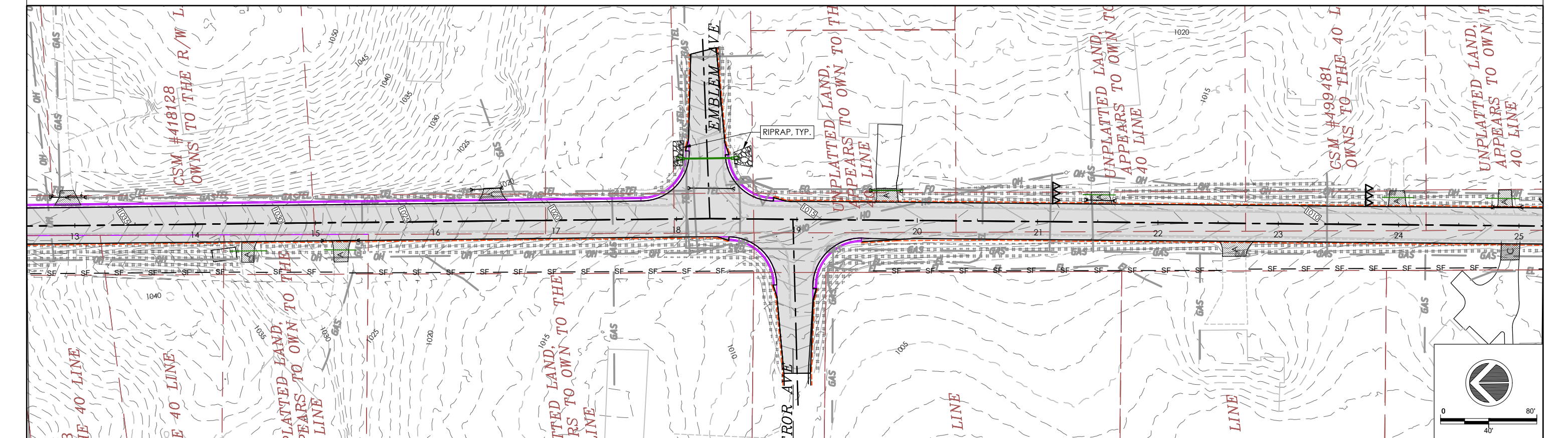
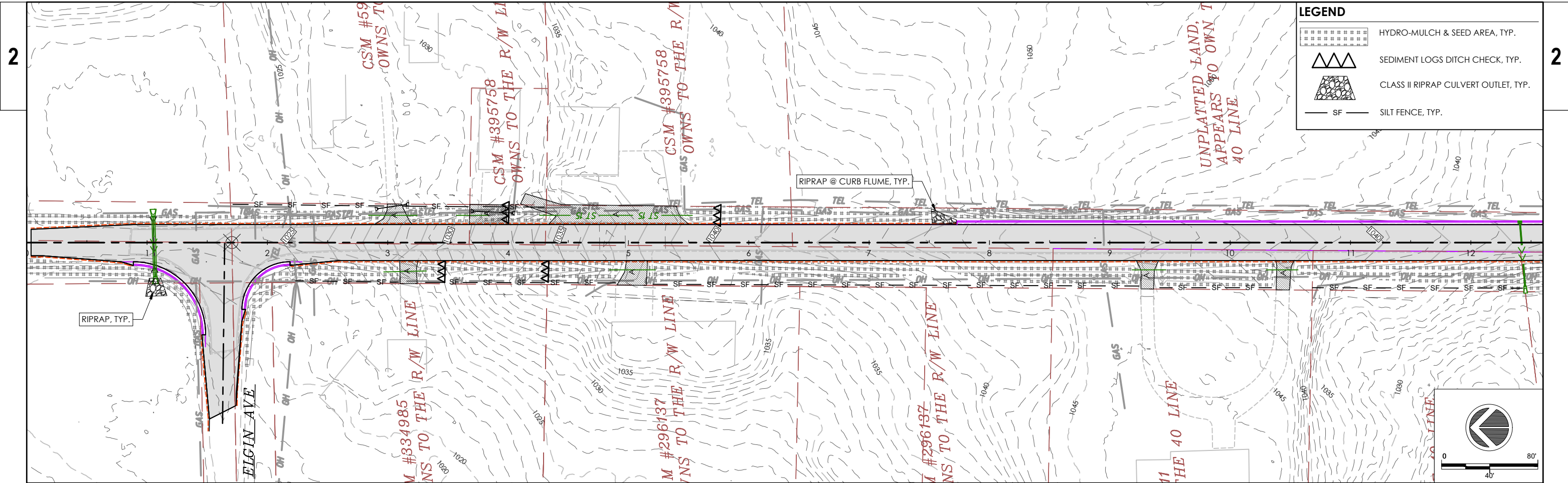
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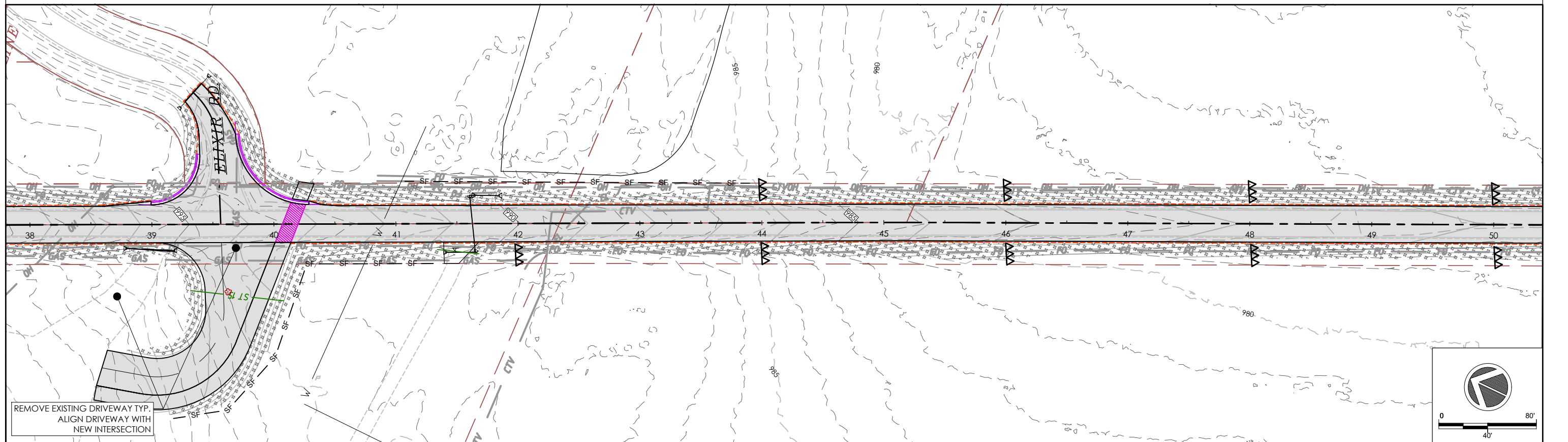
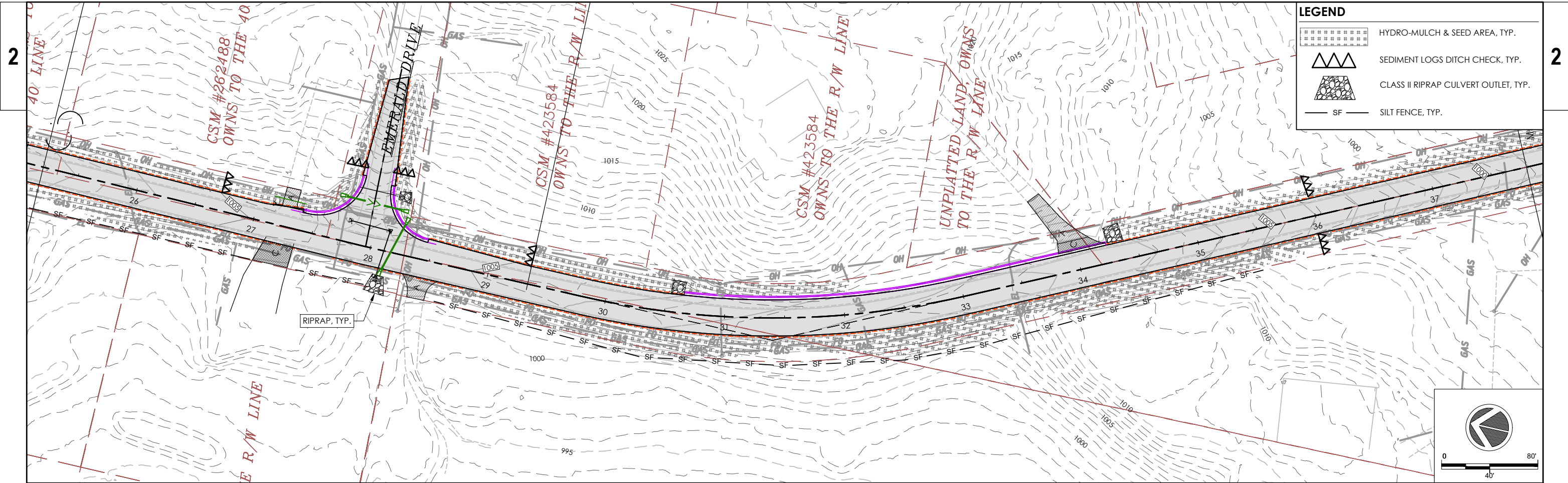
WISDOT/CADD SHEET 44





PROJECT NO: 18112/39508802306	HWY: ELLSWORTH RD	COUNTY: MONROE COUNTY	EXISTING UTILITIES	SHEET <b>C1.3.2</b> <b>E</b>
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PROJECT NO: 18112/39508802306

HWY: ELLSWORTH RD

COUNTY: MONROE COUNTY

EROSION CONTROL PLAN

SHEET **C2.1** E

FILE NAME: EC1.1.DWG  
LAYOUT NAME - EC 1.1

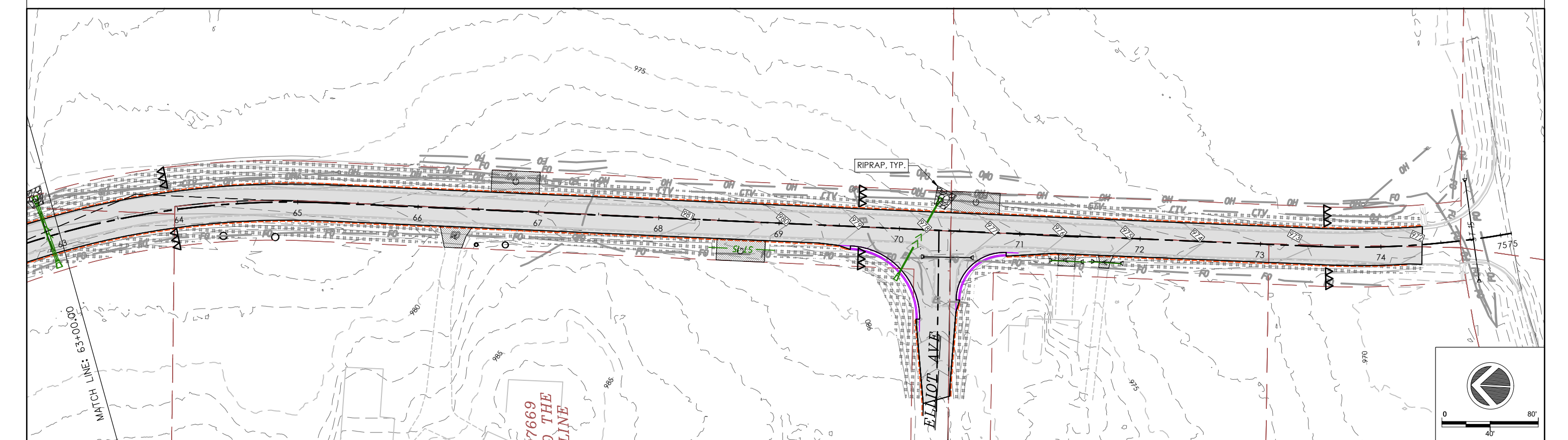
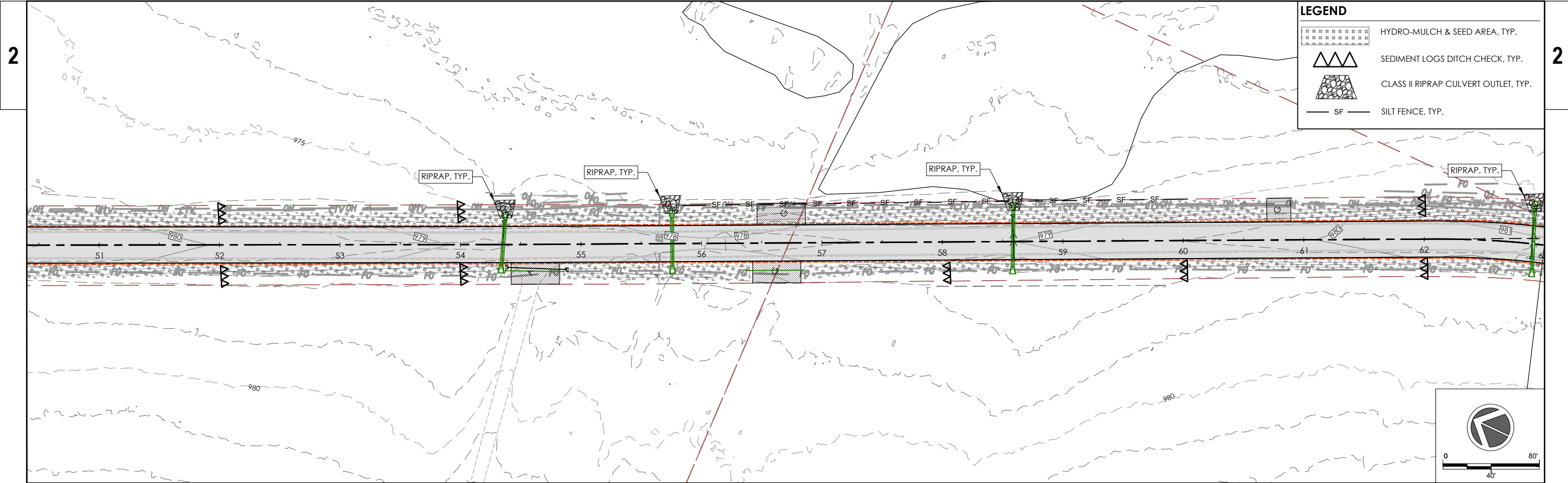
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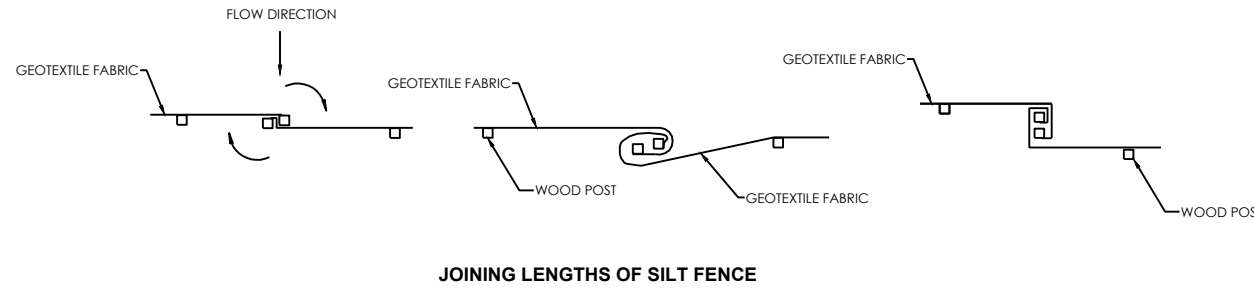
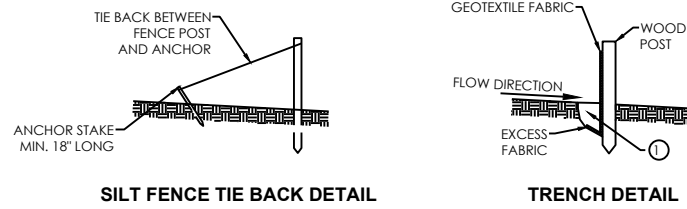
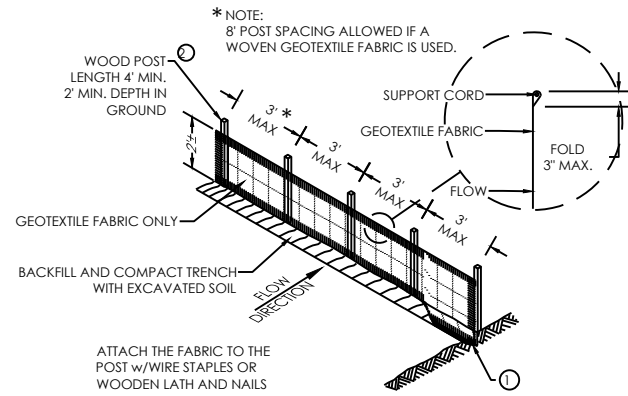
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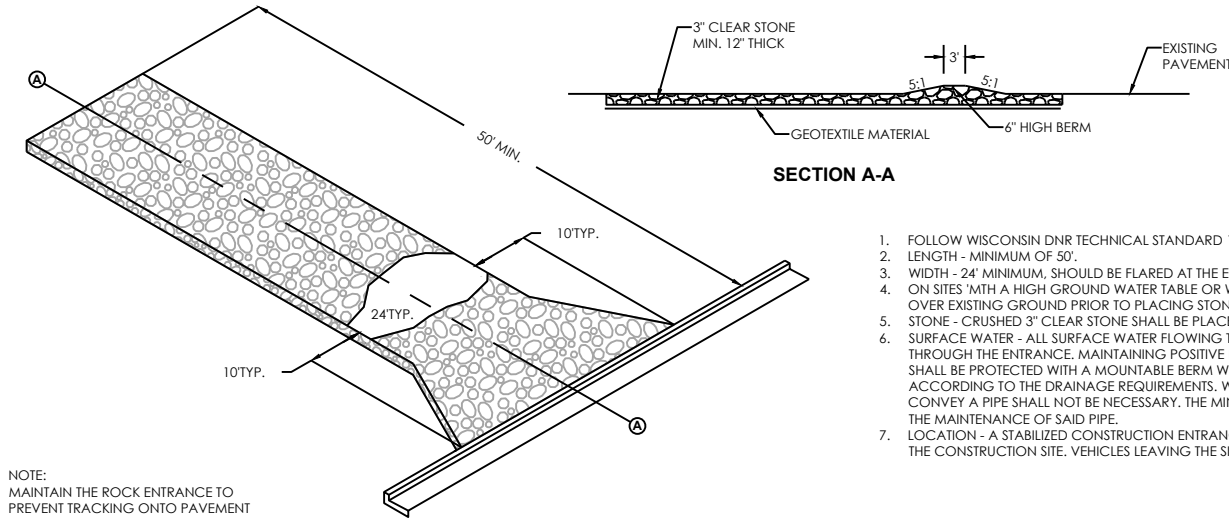
WISDOT/CADD SHEET 42



- NOTES:
- TRENCH SHALL BE A MINIMUM OF 4" WIDE BY 6" DEEP TO BURY AND ANCHOR THE GEOTEXTILE FABRIC, FOLD MATERIAL TO FIT TRENCH AND BACKFILL AND COMPACT TRENCH WITH EXCAVATED SOIL.
  - HORIZONTAL BRACE WITH 2" X 4" WOODEN FRAME OR EQUIVALENT AT TOP OF POST AS DIRECTED BY THE ENGINEER.
  - WOOD POST SHALL BE A MINIMUM SIZE OF 1 1/8" X 1 1/8" OF OAK OR HICKORY.

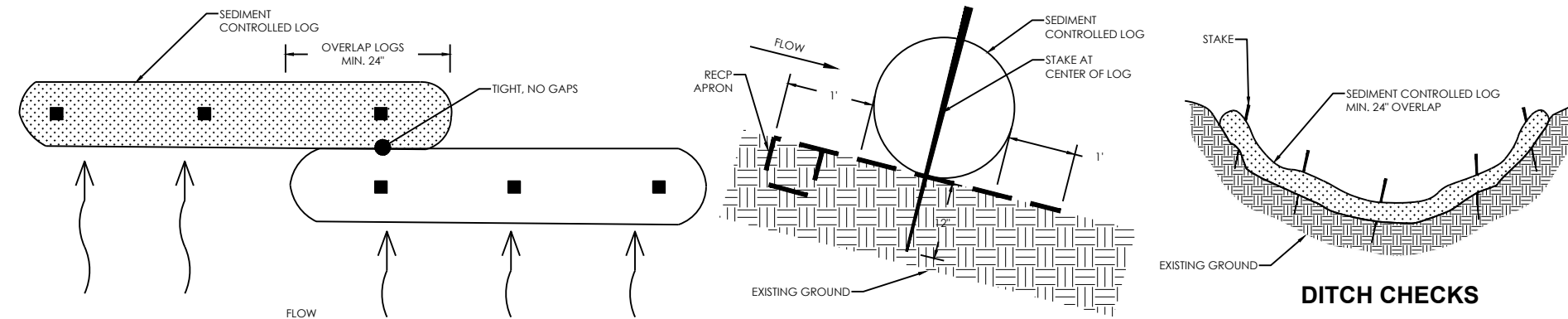


**1-SILT FENCE**

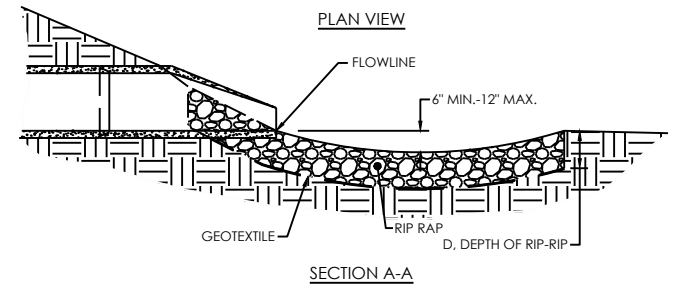
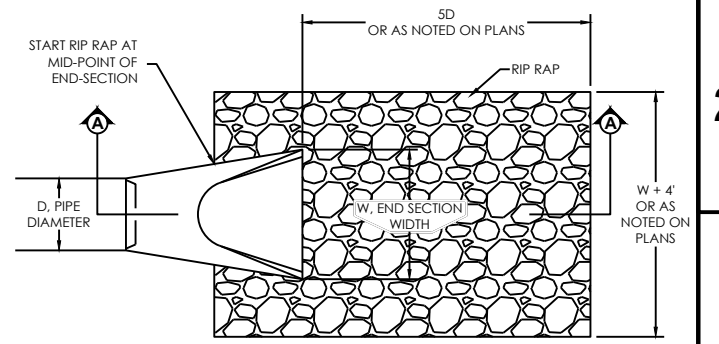


- FOLLOW WISCONSIN DNR TECHNICAL STANDARD 1057 FOR FURTHER DETAILS AND INSTALLATION.
- LENGTH - MINIMUM OF 50'.
- WIDTH - 24' MINIMUM, SHOULD BE FLARED AT THE EXISTING ROAD TO PROVIDE A TURNING RADIUS.
- ON SITES WITH A HIGH GROUND WATER TABLE OR WHERE SATURATED CONDITIONS EXIST, GEOTEXTILE FABRIC SHALL BE PLACED OVER EXISTING GROUND PRIOR TO PLACING STONE. FABRIC SHALL BE WISDOT TYPE-HR GEOTEXTILE FABRIC.
- STONE - CRUSHED 3" CLEAR STONE SHALL BE PLACED AT LEAST 12" DEEP OVER THE ENTIRE LENGTH AND WIDTH OF ENTRANCE.
- SURFACE WATER - ALL SURFACE WATER FLOWING TO OR DIVERTED TOWARDS CONSTRUCTION ENTRANCES SHALL BE PIPED THROUGH THE ENTRANCE, MAINTAINING POSITIVE DRAINAGE. PIPE INSTALLED THROUGH THE STABILIZED CONSTRUCTION ENTRANCE SHALL BE PROTECTED WITH A MOUNTAIN BERM WITH 5:1 SLOPES AND MINIMUM OF 6" STONE OVER THE PIPE. PIPE SHALL BE SIZED ACCORDING TO THE DRAINAGE REQUIREMENTS, WHEN THE ENTRANCE IS LOCATED AT A HIGH SPOT AND HAS NO DRAINAGE TO CONVEY A PIPE SHALL NOT BE NECESSARY. THE MINIMUM PIPE DIAMETER SHALL BE 6". CONTRACTOR SHALL BE RESPONSIBLE FOR THE MAINTENANCE OF SAID PIPE.
- LOCATION - A STABILIZED CONSTRUCTION ENTRANCE SHALL BE LOCATED WHERE CONSTRUCTION TRAFFIC ENTERS AND/OR LEAVES THE CONSTRUCTION SITE. VEHICLES LEAVING THE SITE MUST TRAVEL OVER THE ENTIRE LENGTH OF THE TRACKING PAD.

**2-TRACKING PAD**



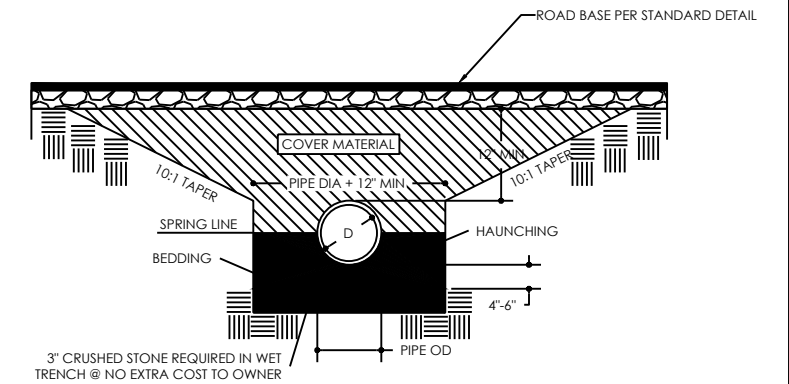
**3-TEMPORARY DITCH CHECK (SEDIMENT LOGS)**



**CMP/HDPE PIPE**

RIP RAP CLASS	WIS DOT RIP RAP EQUIVALENT	d. DEPTH
1	--	9"
2	LIGHT	18"
3	HEAVY	27"
4	EXTRA HEAVY	36"

**4-RIP RAP AT PIPE INLET**



**BEDDING AND COVER MATERIAL:**

CLASS IA: CLEAN, ANGULAR CRUSHED STONE, CRUSHED ROCK, OR CRUSHED GRAVEL CONFORMING TO THE FOLLOWING GRADATION:

SIEVE SIZE	% PASSING BY WEIGHT
1"	100
3/4"	90-100
3/8"	20-55
NO. 4	0-10
NO. 8	0-5

CLASS IB: CLEAN, ANGULAR CRUSHED STONE, CRUSHED ROCK, OR CRUSHED GRAVEL CONFORMING TO THE FOLLOWING GRADATION:

SIEVE SIZE	% PASSING BY WEIGHT
1/2"	100
3/8"	85-100
NO. 4	10-30
NO. 200	0-5

CLASS II: CLEAN COARSE-GRAINED SOILS CLASSIFIED IN ASTM D2487 AS GW, GP, SW, SP.  
CLASS III: COARSE-GRAINED SOILS WITH FINES CLASSIFIED IN ASTM D2487 AS GM, GC, SM, SC.

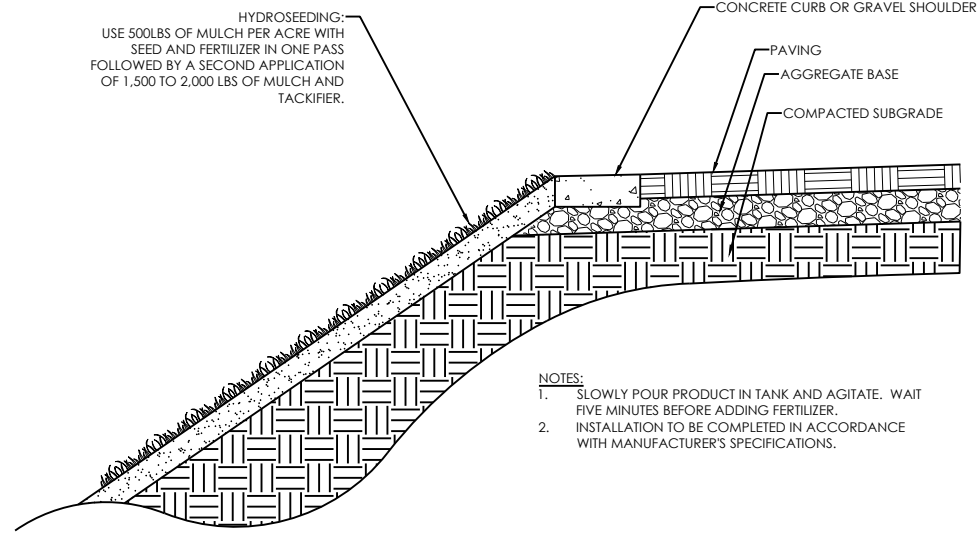
INSTALLATION:  
PLACE 4" OF BEDDING MATERIAL BENEATH PIPE. PLACE BEDDING MATERIAL AROUND THE PIPE TO THE SPRING LINE. WORK THE MATERIAL IN AND AROUND THE PIPE BY HAND TO PROVIDE UNIFORM SUPPORT. PLACE COVER MATERIAL CAREFULLY TO A LEVEL 6" ABOVE THE PIPE.

**5-RIGID PIPE BEDDING**

EROSION CONTROL NOTES

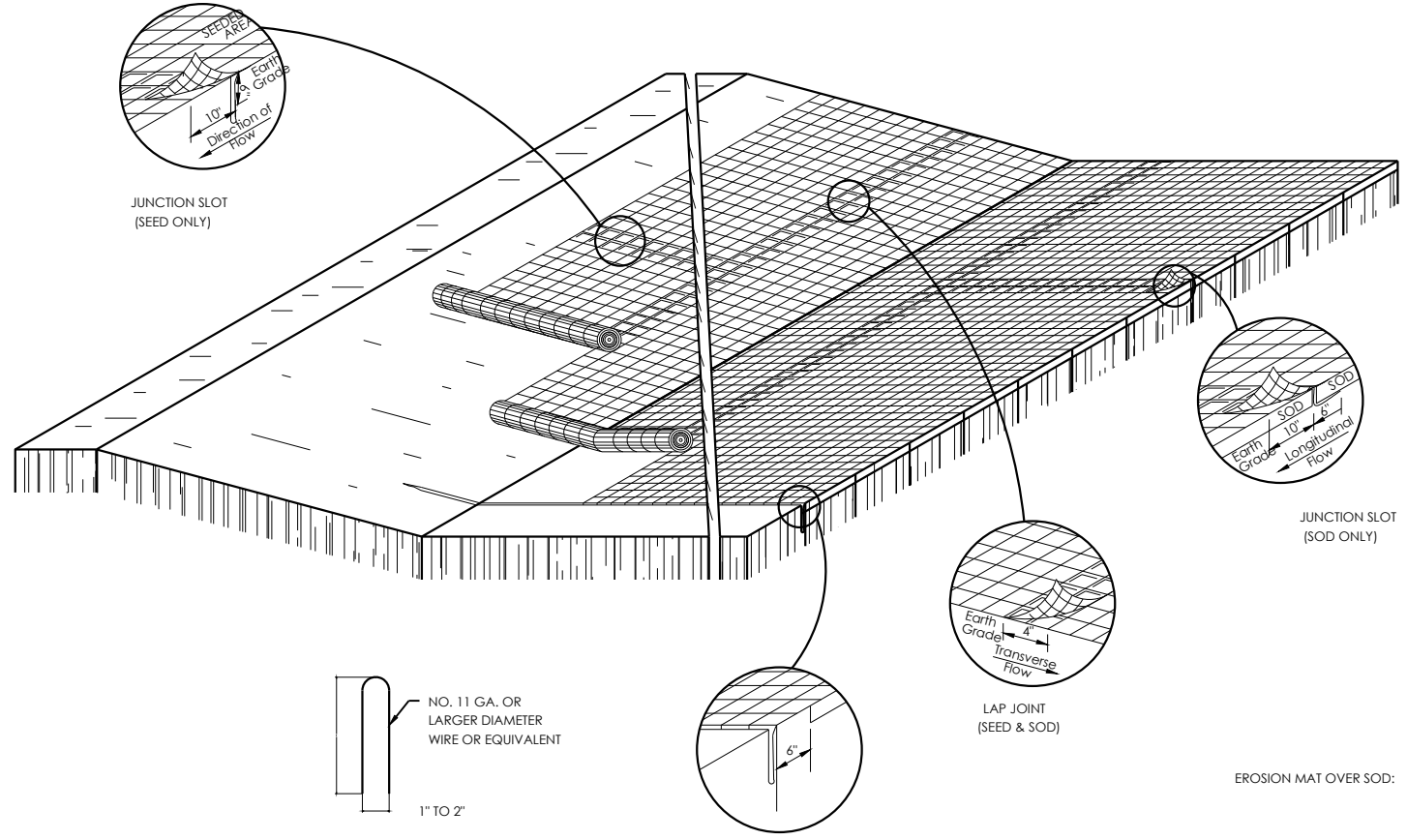
- POST WDNR CERTIFICATE OF PERMIT COVERAGE ON SITE AND MAINTAIN UNTIL CONSTRUCTION ACTIVITIES HAVE CEASED. THE SITE IS STABILIZED, AND A NOTICE OF TERMINATION IS FILED WITH WDNR.
- KEEP A COPY OF THE CURRENT EROSION CONTROL PLAN ON SITE THROUGHOUT THE DURATION OF THE PROJECT.
- SUBMIT PLAN REVISIONS OR AMENDMENTS TO THE WDNR AT LEAST 5 DAYS PRIOR TO FIELD IMPLEMENTATION.
- TOWN OR ITS REPRESENTATIVE IS RESPONSIBLE FOR ROUTINE SITE INSPECTIONS AT LEAST ONCE EVERY 7 DAYS AND WITHIN 24 HOURS AFTER A RAINFALL EVENT OF 0.5 INCHES OR GREATER. KEEP INSPECTION REPORTS ON-SITE AND MAKE THEM AVAILABLE UPON REQUEST.
- INSPECT AND MAINTAIN ALL INSTALLED EROSION CONTROL PRACTICES UNTIL THE CONTRIBUTING DRAINAGE AREA HAS BEEN STABILIZED.
- WHEN POSSIBLE: PRESERVE EXISTING VEGETATION (ESPECIALLY ADJACENT TO SURFACE WATERS), MINIMIZE LAND-DISTURBING CONSTRUCTION ACTIVITY ON SLOPES OF 20% OR MORE, MINIMIZE SOIL COMPACTION, AND PRESERVE TOPSOIL.
- REFER TO THE WDNR STORMWATER CONSTRUCTION TECHNICAL STANDARDS AT [HTTP://DNR.WI.GOV/TOPIC/STORMWATER/STANDARDS/CONST\\_STANDARDS.HTML](http://DNR.WI.GOV/TOPIC/STORMWATER/STANDARDS/CONST_STANDARDS.HTML).
- INSTALL PERIMETER EROSION CONTROLS AND ROCK TRACKING PAD CONSTRUCTION ENTRANCE(S) PRIOR TO ANY LAND-DISTURBING ACTIVITIES, INCLUDING CLEARING AND GRUBBING. USE WDNR TECHNICAL STANDARD STONE TRACKING PAD AND TIRE WASHING #1057 FOR ROCK CONSTRUCTION ENTRANCE(S).
- INSTALL INLET PROTECTION PRIOR TO LAND-DISTURBING ACTIVITIES IN THE CONTRIBUTING DRAINAGE AREA AND/OR IMMEDIATELY UPON INLET INSTALLATION. COMPLY WITH WDNR TECHNICAL STANDARD STORM DRAIN INLET PROTECTION FOR CONSTRUCTION SITES #1060.
- STAGE CONSTRUCTION GRADING ACTIVITIES TO MINIMIZE THE CUMMULATIVE EXPOSED AREA. CONDUCT TEMPORARY GRADING FOR EROSION CONTROL PER WDNR TECHNICAL STANDARD TEMPORARY GRADING PRACTICES FOR EROSION CONTROL #1067.
- PERMITTING OF GROUNDWATER DEWATERING IS THE RESPONSIBILITY OF THE OWNER. GROUNDWATER DEWATERING IS SUBJECT TO A DNR WASTEWATER DISCHARGE PERMIT AND A DNR HIGH CAPACITY WELL APPROVAL IF CUMULATIVE PUMP CAPACITY IS 70 GPM OR MORE.
- PROVIDE ANTI-SCOUR PROTECTION AND MAINTAIN NON-EROSIVE FLOW DURING DEWATERING. PERFORM DEWATERING OF ACCUMULATED SURFACE RUNOFF IN ACCORDANCE WITH WDNR TECHNICAL STANDARD DE-WATERING #1061. (REV. FEBRUARY 2017)
- COMPLETE AND STABILIZE SEDIMENT BASINS/TRAPS OR WET PONDS PRIOR TO MASS LAND DISTURBANCE TO CONTROL RUNOFF DURING CONSTRUCTION. REMOVE SEDIMENT AS NEEDED TO MAINTAIN 3 FEET OF DEPTH TO THE OUTLET, AND PROPERLY DISPOSE OF SEDIMENT REMOVED DURING MAINTENANCE (REFER TO NR 528). CONSTRUCT AND MAINTAIN THE SEDIMENT BASIN PER WDNR TECHNICAL STANDARD SEDIMENT BASIN #1064 AND SEDIMENT TRAP # 1063.
- CONSTRUCT AND PROTECT BIO-INFILTRATION BASIN AND VEGETATION IF APPLICABLE FROM RUNOFF AND SEDIMENT DURING CONSTRUCTION. REFERENCE THE WDNR TECHNICAL STANDARD BIORETENTION FOR INFILTRATION # 1004.

- INSTALL AND MAINTAIN SILT FENCING PER WDNR TECHNICAL STANDARD SILT FENCE REMOVE SEDIMENT FROM BEHIND SILT FENCES AND SEDIMENT BARRIERS BEFORE SEDIMENT REACHES A DEPTH THAT IS EQUAL TO ONE-HALF OF THE FENCE AND/OR BARRIER HEIGHT.
- REPAIR BREAKS AND GAPS IN SILT FENCES AND BARRIERS IMMEDIATELY. REPLACE DECOMPOSING STRAW BALES (TYPICAL BALE LIFE IS 3 MONTHS). LOCATE, INSTALL, AND MAINTAIN STRAW BALES PER WDNR TECHNICAL STANDARD DITCH CHECKS #1062.
- INSTALL AND MAINTAIN FILTER SOCKS IN ACCORDANCE WITH WDNR TECHNICAL STANDARD INTERIM MANUFACTURED PERIMETER CONTROL AND SLOPE INTERRUPTION PRODUCTS # 1071.
- IMMEDIATELY STABILIZE STOCKPILES AND SURROUND STOCKPILES AS NEEDED WITH SILT FENCE OR OTHER PERIMETER CONTROL IF STOCKPILES WILL REMAIN INACTIVE FOR 7 DAYS OR LONGER.
- IMMEDIATELY STABILIZE ALL DISTURBED AREAS THAT WILL REMAIN INACTIVE FOR 14 DAYS OR LONGER. BETWEEN SEPTEMBER 15 AND OCTOBER 15: STABILIZE WITH MULCH, TACKIFIER, AND A PERENNIAL SEED MIXED WITH WINTER WHEAT, ANNUAL OATS, OR ANNUAL RYE, AS APPROPRIATE FOR REGION AND SOIL TYPE. OCTOBER 15 THROUGH COLD WEATHER: STABILIZE WITH A POLYMER AND DORMANT SEED MIX, AS APPROPRIATE FOR REGION AND SOIL TYPE.
- STABILIZE AREAS OF FINAL GRADING WITHIN 7 DAYS OF REACHING FINAL GRADE.
- SWEEP/CLEAN UP ALL SEDIMENT/TRASH THAT MOVES OFF-SITE DUE TO CONSTRUCTION ACTIVITY OR STORM EVENTS BEFORE THE END OF THE SAME WORKDAY OR AS DIRECTED BY TOWN OF LA GRANGE. SEPARATE SWEEP MATERIALS (SOILS AND TRASH) AND DISPOSE OF APPROPRIATELY.
- CONTRACTOR SHALL BE RESPONSIBLE FOR CONTROLLING DUST PER WDNR TECHNICAL STANDARD DUST CONTROL ON CONSTRUCTION SITES # 1068.
- PROPERLY DISPOSE OF ALL WASTE AND UNUSED BUILDING MATERIALS (INCLUDING GARBAGE, DEBRIS, CLEANING WASTES, OR OTHER CONSTRUCTION MATERIALS) AND DO NOT ALLOW THESE MATERIALS TO BE CARRIED BY RUNOFF INTO THE RECEIVING CHANNEL.
- COORDINATE WITH TOWN OF LA GRANGE TO UPDATE THE LAND DISTURBANCE PERMIT TO INDICATE THE ANTICIPATED OR LIKELY DISPOSAL LOCATIONS FOR ANY EXCAVATED SOILS OR CONSTRUCTION DEBRIS THAT WILL BE HAULED OFF-SITE FOR DISPOSAL. THE DEPOSITED OR STOCKPILED MATERIAL NEEDS TO INCLUDE PERIMETER SEDIMENT CONTROL MEASURES (SUCH AS SILT FENCE, HAY BALES, FILTER SOCKS, OR COMPACTED EARTHEN BERMS).
- FOR NON-CHANNELIZED FLOW ON DISTURBED OR CONSTRUCTED SLOPES, PROVIDE CLASS I TYPE B EROSION CONTROL MATTING. SELECT EROSION MATTING FROM APPROPRIATE MATRIX IN WDOTS WIDOT PRODUCT ACCEPTABILITY LIST (PAL); INSTALL AND MAINTAIN PER WDNR TECHNICAL STANDARD NON-CHANNEL EROSION MAT #1052.
- FOR CHANNELIZED FLOW ON DISTURBED OR CONSTRUCTED AREAS, PROVIDE CLASS II TYPE B EROSION CONTROL MATTING. SELECT EROSION MATTING FROM APPROPRIATE MATRIX IN WDOTS WIDOT PRODUCT ACCEPTABILITY LIST (PAL); INSTALL AND MAINTAIN PER WDNR TECHNICAL STANDARD CHANNEL EROSION MAT #1053.
- MAKE PROVISIONS FOR WATERING DURING THE FIRST 8 WEEKS FOLLOWING SEEDING OR PLANTING OF DISTURBED AREAS WHENEVER MORE THAN 7 CONSECUTIVE DAYS OF DRY WEATHER OCCUR.



- NOTES:
- SLOWLY POUR PRODUCT IN TANK AND AGITATE. WAIT FIVE MINUTES BEFORE ADDING FERTILIZER.
  - INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.

CROSS SECTION  
1-HYDROSEEDING TYP. DETAIL



**EROSION CONTROL**  
GENERAL NOTES:  
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL SPECIFICATIONS.  
VARIATIONS IN THE DIMENSIONS OF MATERIALS SHOWN HEREON SHALL BE PERMITTED IF THEY PROVIDE EQUIVALENT PROTECTION AND MATERIAL STRENGTH AND IF PRIOR APPROVAL OF THE ENGINEER IS OBTAINED.  
LAP JOINTS SHALL NOT BE PLACED IN THE BOTTOM OF V-SHAPED DITCHED.  
JUNCTION SLOTS ON ADJACENT STRIPS OF MATTING SHALL BE STAGGERED A MINIMUM OF 4 FEET APART.  
EDGES OF THE EROSION MAT SHALL BE IMPRESSED IN THE SOIL.  
EROSION MAT SHALL BE MEASURED AND PAYED FOR IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS.

EROSION MAT OVER SOD:

A: ONLY JUTE FABRIC WILL BE PERMITTED OVER SOD.  
B: ROAD STAKES FOR THE SOD MAY BE OMITTED BY THE ENGINEER IF THE EXISTING SLOPE AND SOIL CONDITIONS SO WARRANT.  
C: THE WIDTH OF EROSION MAT SHALL ALWAYS EQUAL THE SOD WIDTH.  
D: SOD STRIPS MAY BE PLACED EITHER LONGITUDINALLY OR TRANSVERSELY TO THE FLOW LINE OF THE DITCH.

EROSION MAT OVER SEEDING:

JUNCTION OR ANCHOR SLOTS SHALL BE AT MINIMUM INTERVALS OF 100 FEET ON GRADES UP TO AND INCLUDING 3 PERCENT, AND 50 FEET ON GRADES EXCEEDING 3 PERCENT.

2-EROSION MAT AND SOD

PROJECT NO: 18112/39508802306

HWY: ELLSWORTH RD

COUNTY: MONROE COUNTY

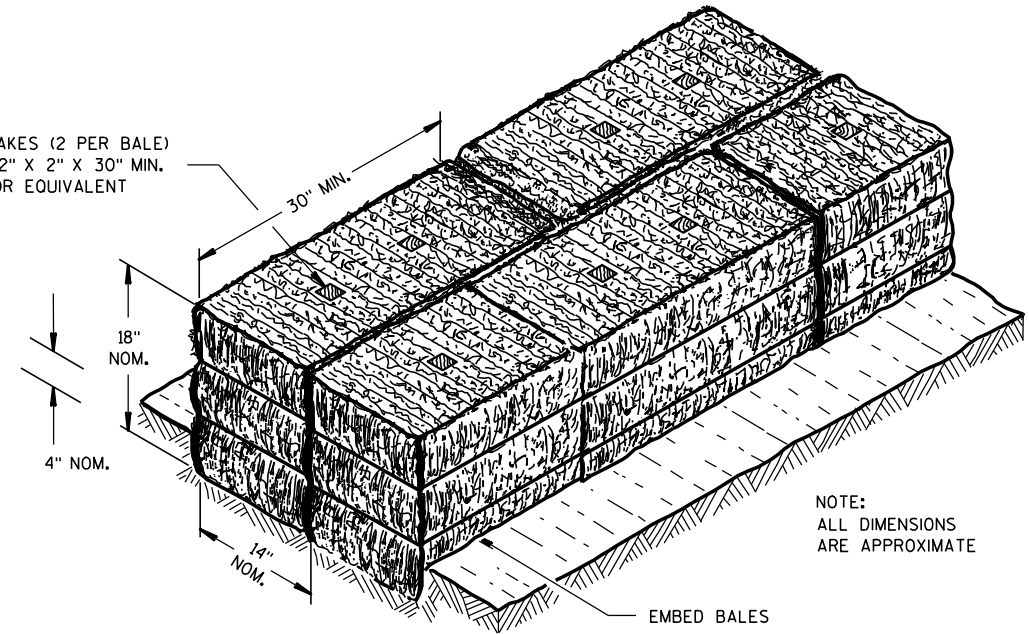
EROSION CONTROL DETAILS

SHEET C2.4

E



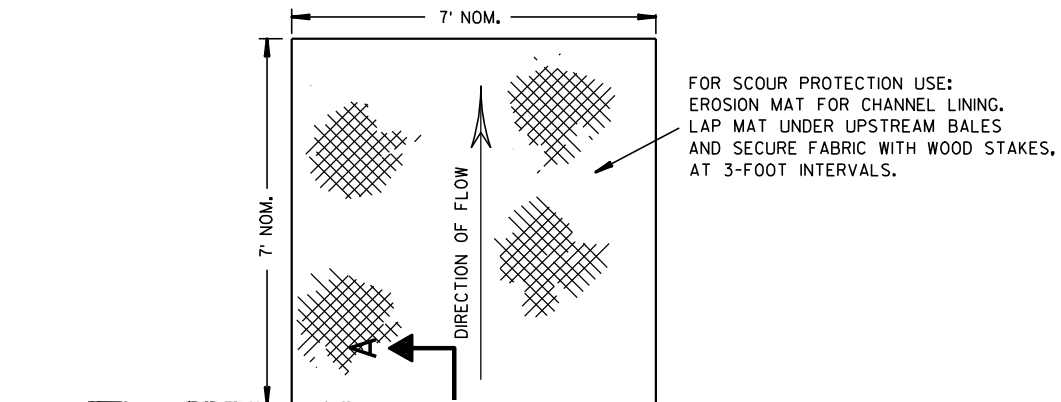
WOOD STAKES (2 PER BALE)  
NOMINAL 2" X 2" X 30" MIN.  
LENGTH OR EQUIVALENT



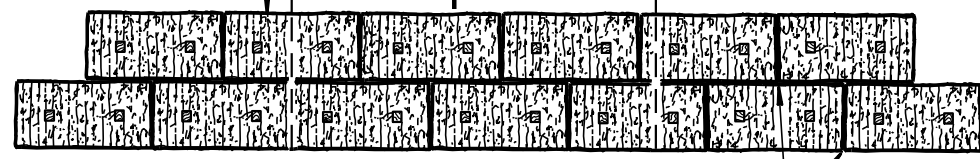
NOTE:  
ALL DIMENSIONS  
ARE APPROXIMATE

EMBED BALES

SECTION A-A



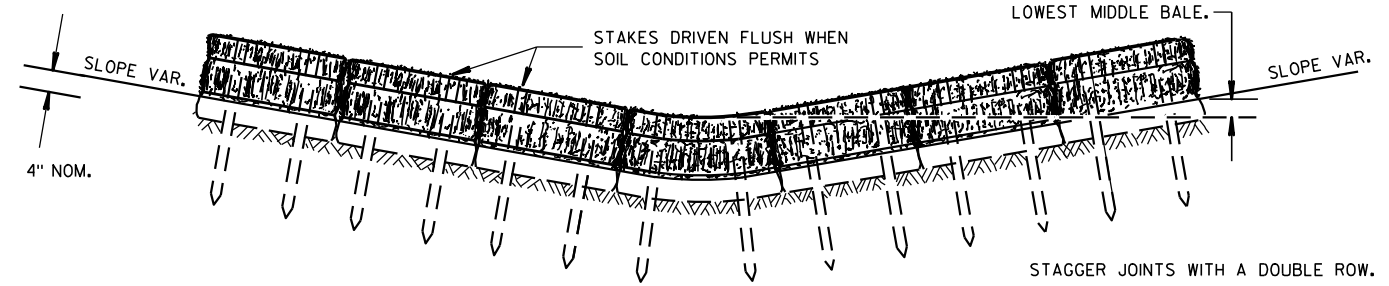
FOR SCOUR PROTECTION USE:  
EROSION MAT FOR CHANNEL LINING.  
LAP MAT UNDER UPSTREAM BALES  
AND SECURE FABRIC WITH WOOD STAKES,  
AT 3-FOOT INTERVALS.



STAGGER JOINTS BETWEEN ADJACENT  
ROWS OF BALES.

PLAN VIEW

BOTTOM ELEVATION OF END BALE SHALL  
BE EQUAL TO OR GREATER THAN TOP OF  
LOWEST MIDDLE BALE.



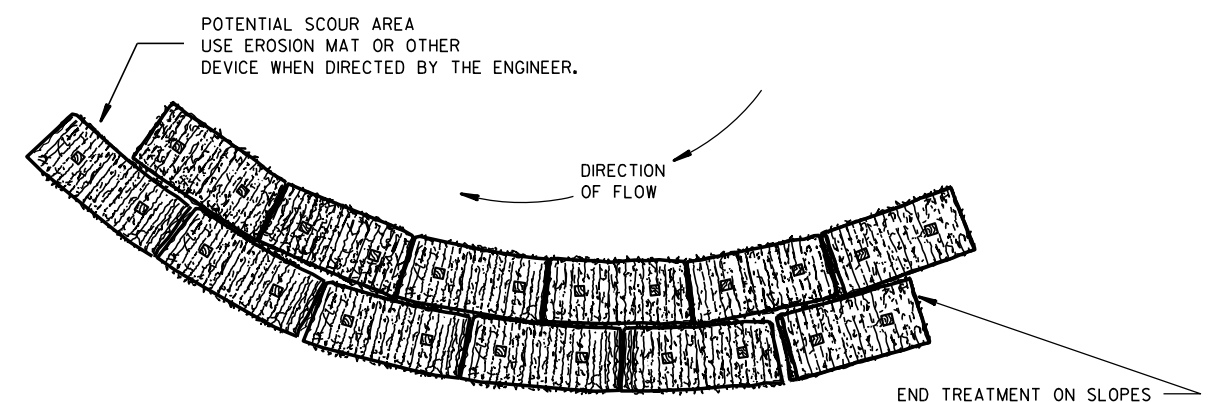
FRONT ELEVATION

TEMPORARY DITCH CHECK USING EROSION BALES ①

GENERAL NOTES

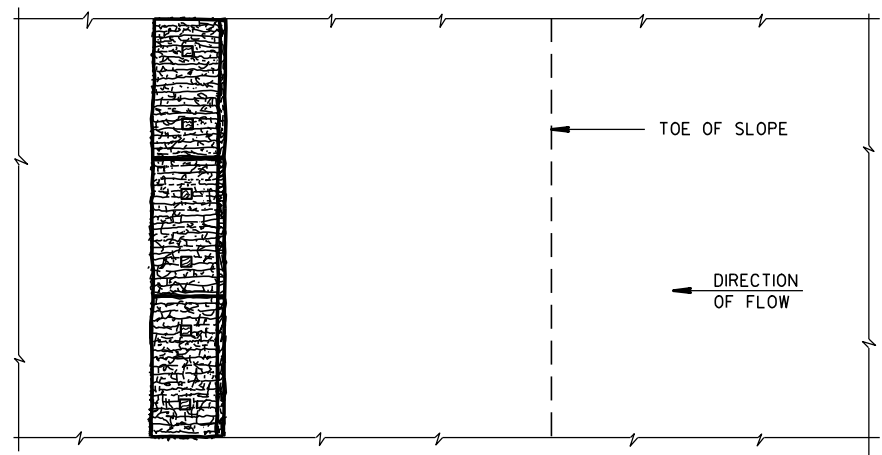
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

- ① TEMPORARY DITCH CHECKS EITHER EROSION BALES OR MANUFACTURED SHALL BE PAID FOR UNDER THE BID ITEM OF TEMPORARY DITCH CHECK. THE DEPARTMENT WILL NOT PAY FOR TEMPORARY DITCH CHECKS CONSTRUCTED OF A SINGLE ROW OF EROSION BALES.

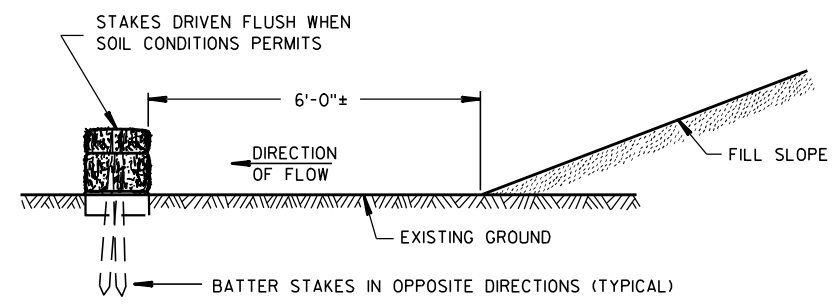


PLAN VIEW

WHEN ALTERING THE DIRECTION OF FLOW



PLAN VIEW



FRONT ELEVATION

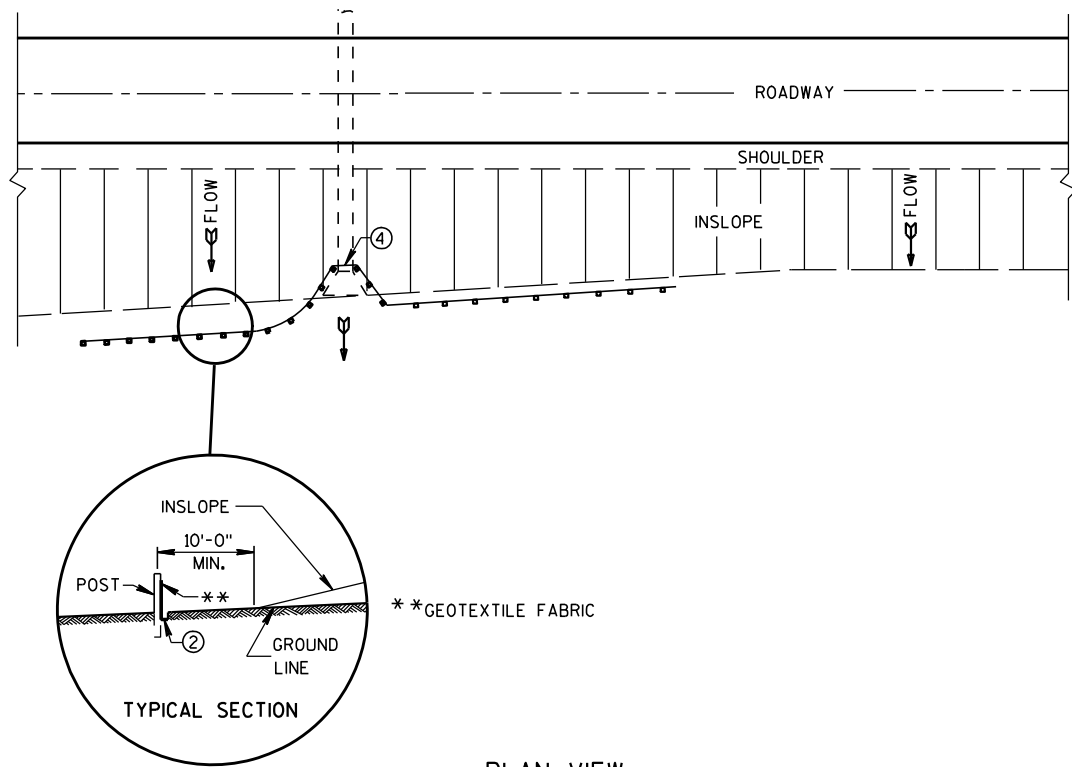
WHEN EXISTING GROUND SLOPES AWAY FROM FILL SLOPE

EROSION BALES FOR SHEET FLOW

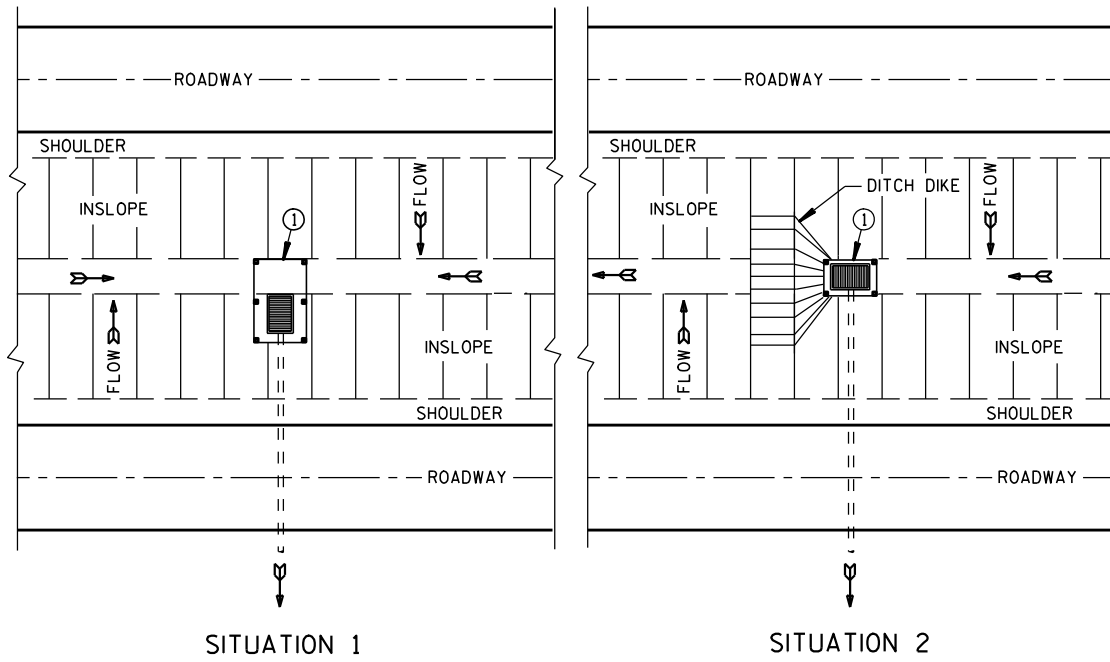
TYPICAL INSTALLATIONS OF  
EROSION BALES / TEMPORARY  
DITCH CHECKS

STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION

APPROVED  
 6/04/02 /S/ Beth Canestra  
 DATE CHIEF ROADWAY DEVELOPMENT ENGINEER  
 FHWA



PLAN VIEW  
TYPICAL APPLICATION OF SILT FENCE

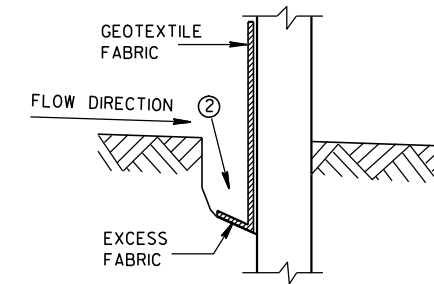


SITUATION 1 SITUATION 2  
PLAN VIEW  
SILT FENCE AT MEDIAN SURFACE DRAINS

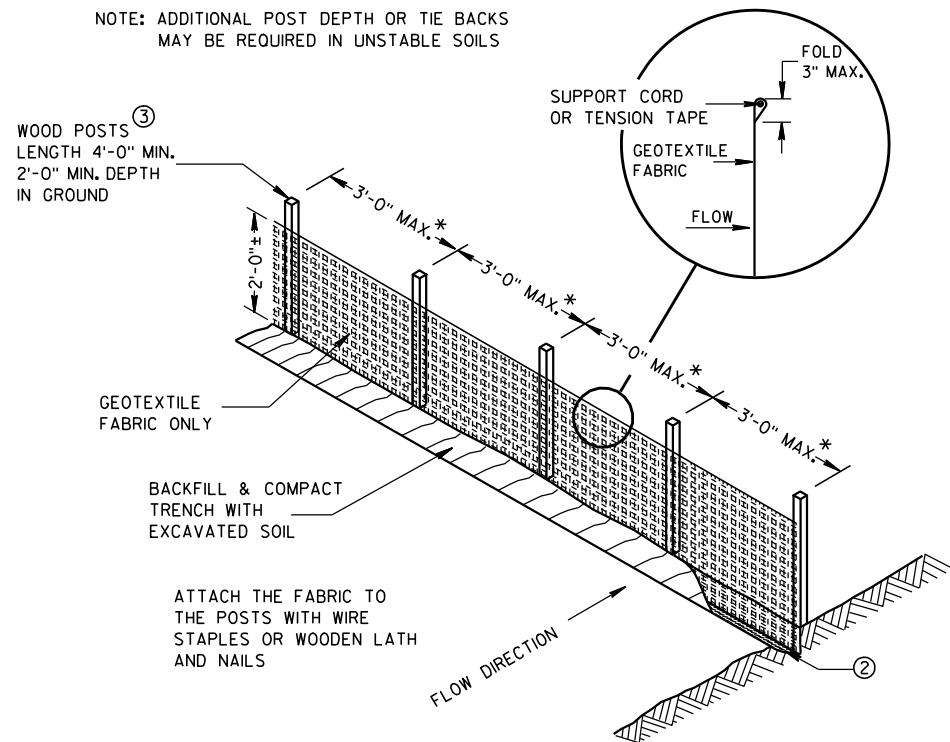
**GENERAL NOTES**

DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

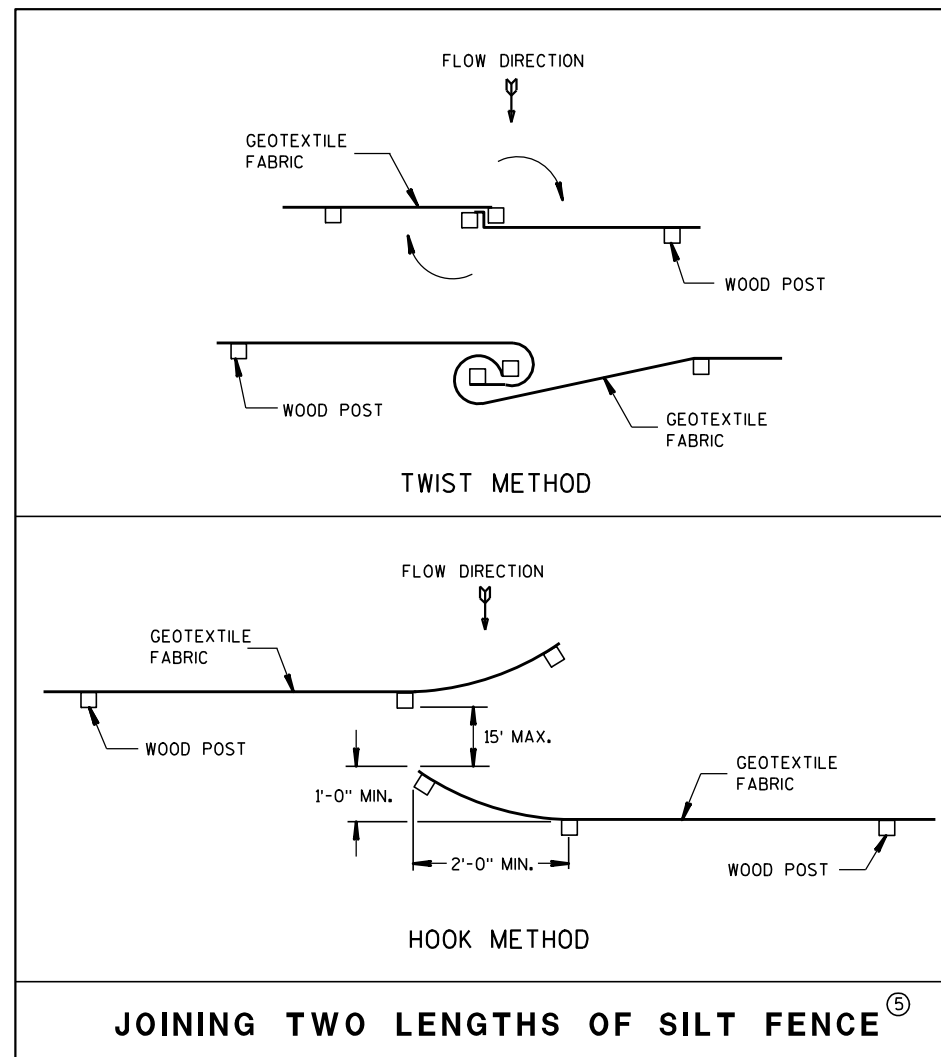
- ① HORIZONTAL BRACE REQUIRED WITH 2" X 4" WOODEN FRAME OR EQUIVALENT AT TOP OF POSTS.
- ② FOR MANUAL INSTALLATIONS THE TRENCH SHALL BE A MINIMUM OF 4" WIDE & 6" DEEP TO BURY AND ANCHOR THE GEOTEXTILE FABRIC. FOLD MATERIAL TO FIT TRENCH AND BACKFILL & COMPACT TRENCH WITH EXCAVATED SOIL.
- ③ WOOD POSTS SHALL BE A MINIMUM SIZE OF 1 1/8" X 1 1/8" OF OAK OR HICKORY.
- ④ SILT FENCE TO EXTEND ACROSS THE TOP OF THE PIPE.
- ⑤ CONSTRUCT SILT FENCE FROM A CONTINUOUS ROLL IF POSSIBLE BY CUTTING LENGTHS TO AVOID JOINTS. IF A JOINT IS NECESSARY USE ONE OF THE FOLLOWING TWO METHODS; A) OVERLAP THE END POSTS AND TWIST, OR ROTATE, AT LEAST 180 DEGREES, B) HOOK THE END OF EACH SILT FENCE LENGTH.



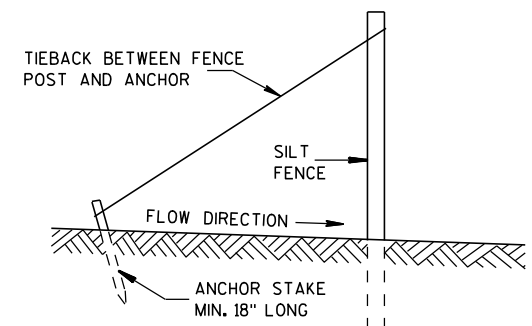
TRENCH DETAIL



SILT FENCE

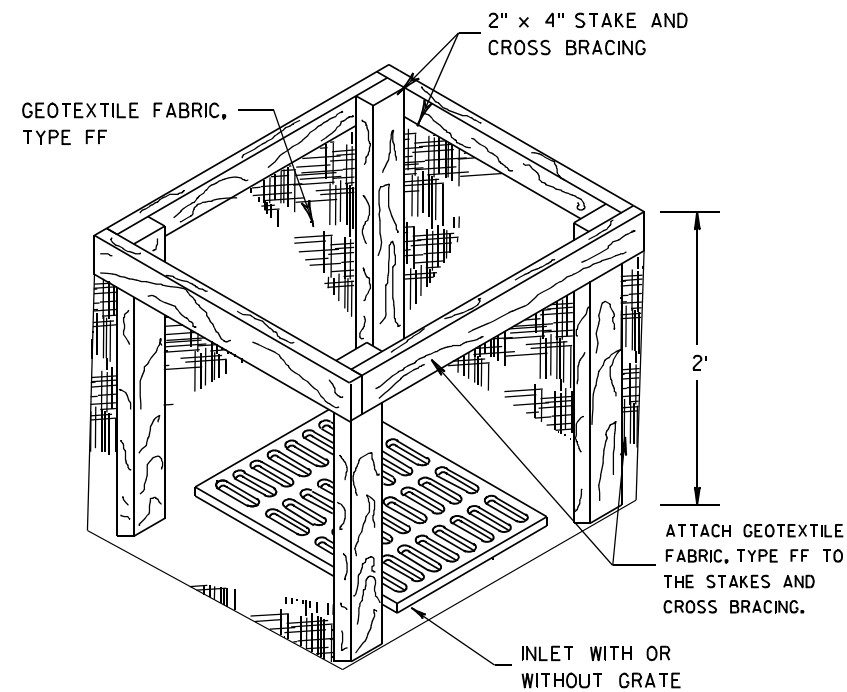
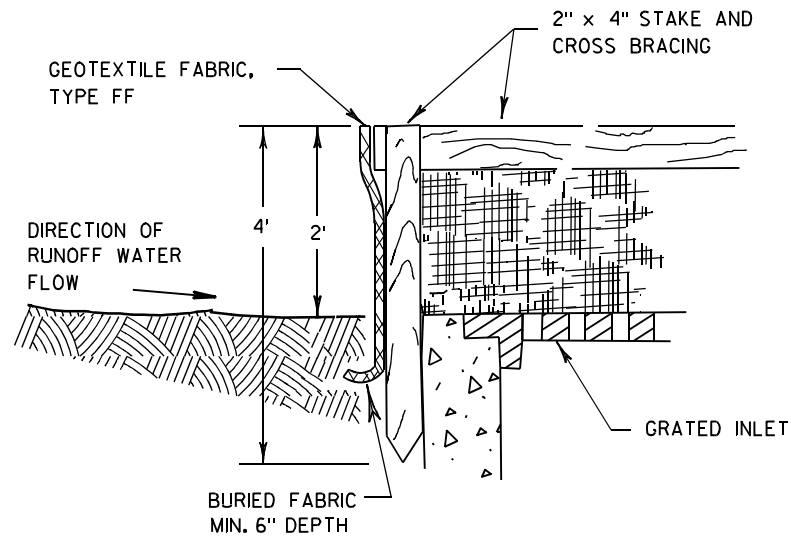


JOINING TWO LENGTHS OF SILT FENCE ⑤



SILT FENCE TIE BACK  
(WHEN REQUIRED BY THE ENGINEER)

<b>SILT FENCE</b>	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED 4-29-05 DATE	/S/ Beth Canestra CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA	



**INLET PROTECTION, TYPE A**

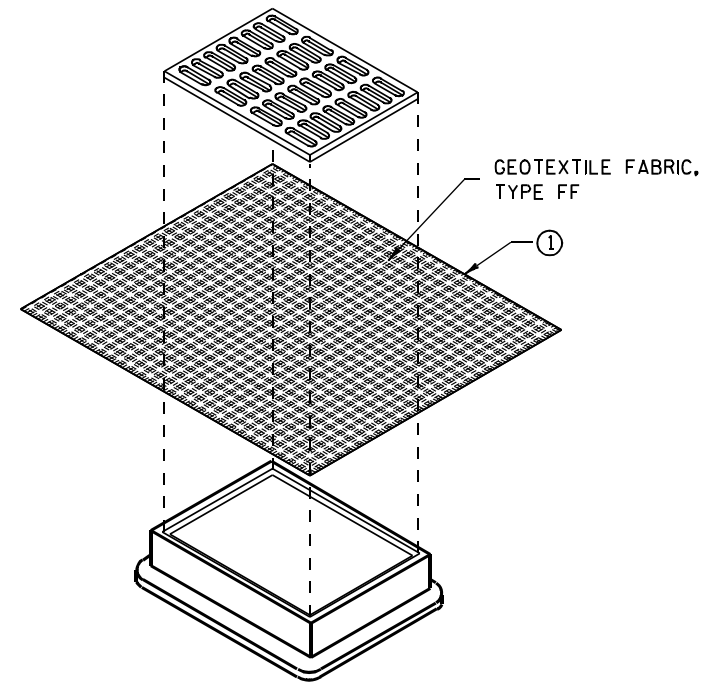
**GENERAL NOTES**

INLET PROTECTION DEVICES SHALL BE MAINTAINED OR REPLACED AT THE DIRECTION OF THE ENGINEER.

MANUFACTURED ALTERNATIVES APPROVED AND LISTED ON THE DEPARTMENT'S EROSION CONTROL PRODUCT ACCEPTABILITY LIST MAY BE SUBSTITUTED.

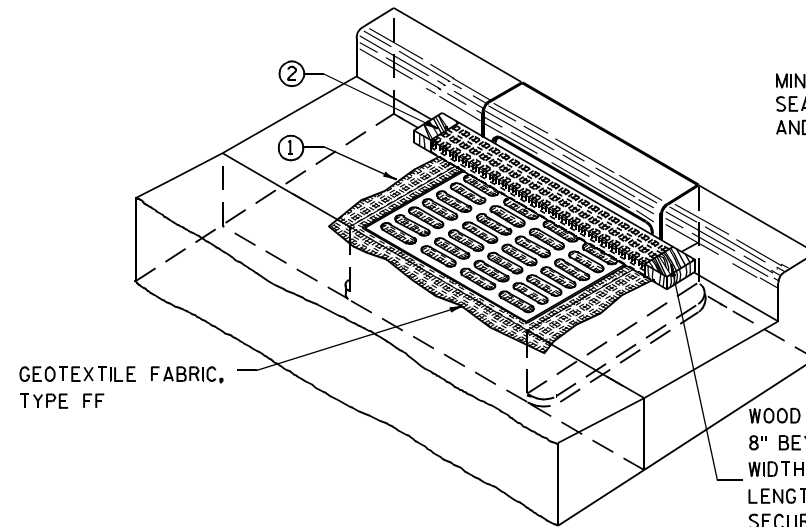
WHEN REMOVING OR MAINTAINING INLET PROTECTION, CARE SHALL BE TAKEN SO THAT THE SEDIMENT TRAPPED ON THE GEOTEXTILE FABRIC DOES NOT FALL INTO THE INLET. ANY MATERIAL FALLING INTO THE INLET SHALL BE REMOVED IMMEDIATELY.

- ① FINISHED SIZE, INCLUDING FLAP POCKETS WHERE REQUIRED, SHALL EXTEND A MINIMUM OF 10" AROUND THE PERIMETER TO FACILITATE MAINTENANCE OR REMOVAL.
- ② FOR INLET PROTECTION, TYPE C (WITH CURB BOX), AN ADDITIONAL 18" OF FABRIC IS WRAPPED AROUND THE WOOD AND SECURED WITH STAPLES. THE WOOD SHALL NOT BLOCK THE ENTIRE HEIGHT OF THE CURB BOX OPENING.
- ③ FLAP POCKETS SHALL BE LARGE ENOUGH TO ACCEPT WOOD 2X4.



**INLET PROTECTION, TYPE B  
(WITHOUT CURB BOX)**

(CAN BE INSTALLED IN ANY INLET WITHOUT A CURB BOX)



**INLET PROTECTION, TYPE C (WITH CURB BOX)**

**INSTALLATION NOTES**

**TYPE B & C**

TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE.

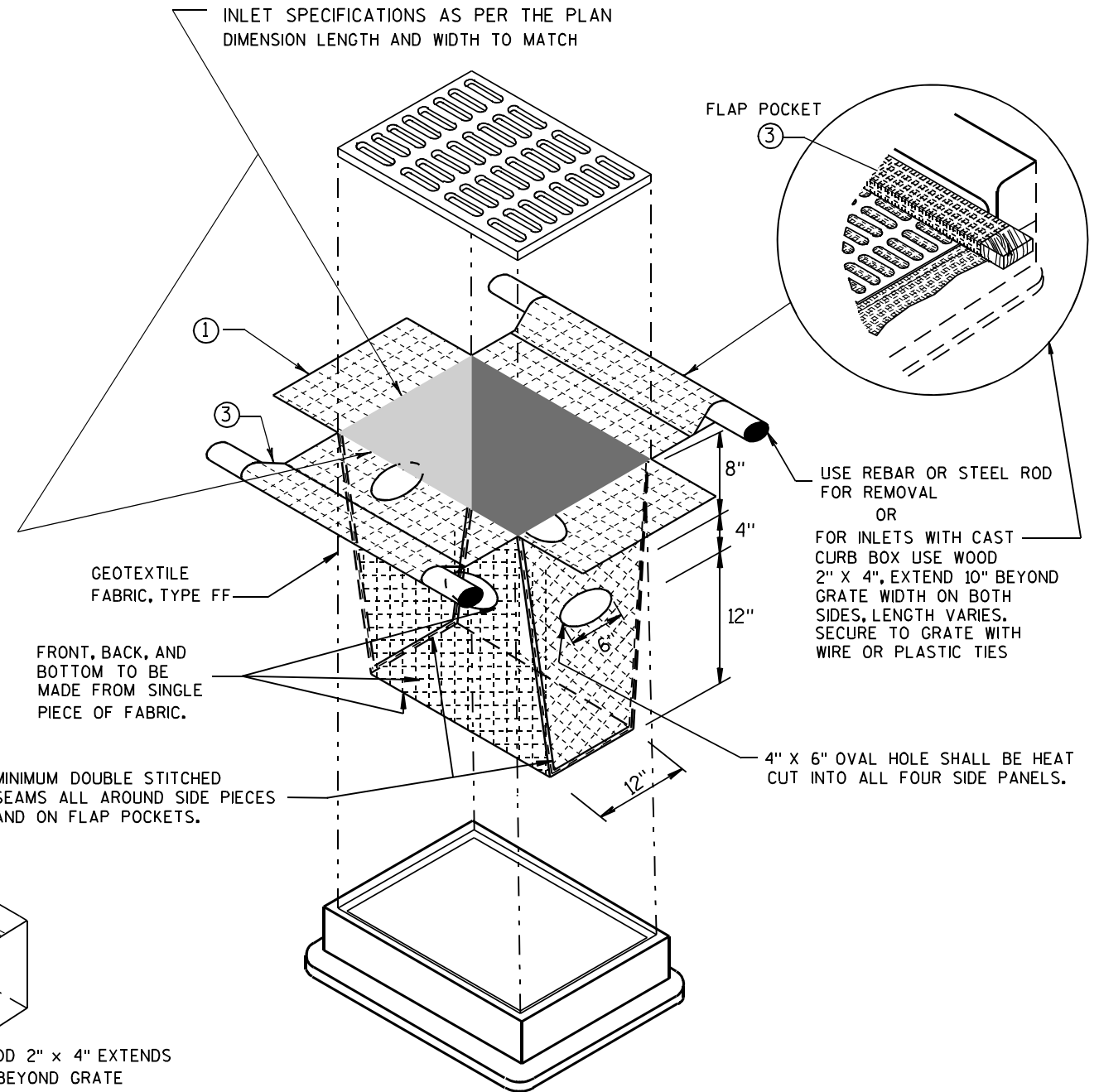
THE CONTRACTOR SHALL DEMONSTRATE A METHOD OF MAINTENANCE, USING A SEWN FLAP, HAND HOLDS OR OTHER METHOD TO PREVENT ACCUMULATED SEDIMENT FROM ENTERING THE INLET.

**TYPE D**

DO NOT INSTALL INLET PROTECTION TYPE D IN INLETS SHALLOWER THAN 30", MEASURED FROM THE BOTTOM OF THE INLET TO THE TOP OF THE GRATE.

TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE.

THE INSTALLED BAG SHALL HAVE A MINIMUM SIDE CLEARANCE, BETWEEN THE INLET WALLS AND THE BAG, MEASURED AT THE BOTTOM OF THE OVERFLOW HOLES, OF 3". WHERE NECESSARY THE CONTRACTOR SHALL CINCH THE BAG, USING PLASTIC ZIP TIES, TO ACHIEVE THE 3" CLEARANCE. THE TIES SHALL BE PLACED AT A MAXIMUM OF 4" FROM THE BOTTOM OF THE BAG.



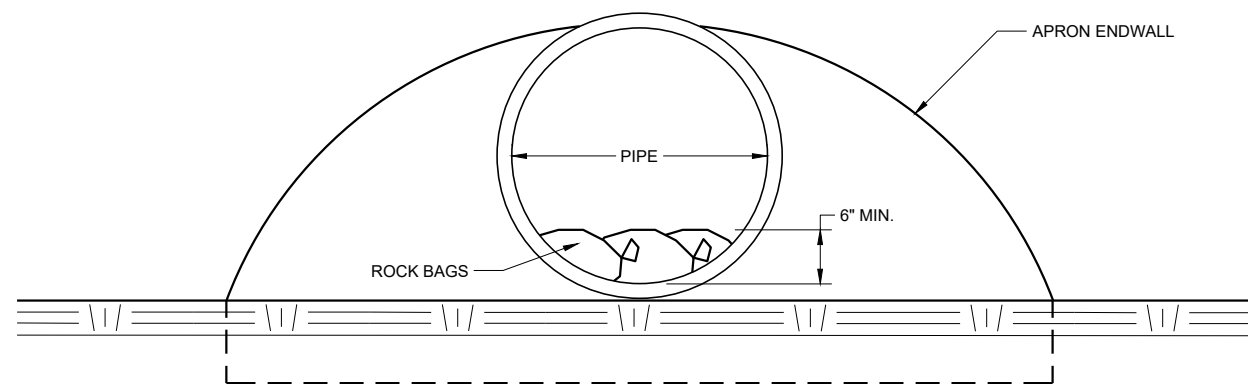
**INLET PROTECTION, TYPE D**

(CAN BE INSTALLED IN ANY INLET TYPE WITH OR WITHOUT A CURB BOX AS PER NOTE ②)

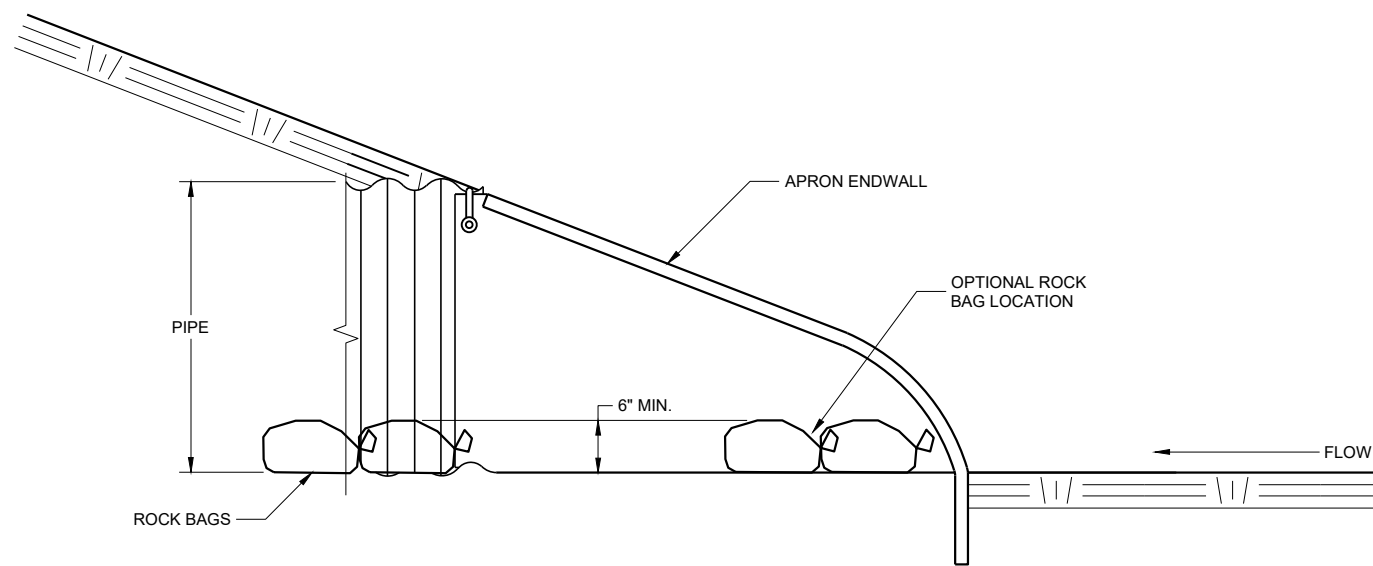
**INLET PROTECTION  
TYPE A, B, C, AND D**

STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION

APPROVED  
10/16/02 /S/ Beth Connestra  
DATE  
CHIEF ROADWAY DEVELOPMENT ENGINEER  
FHWA



END VIEW



SIDE VIEW

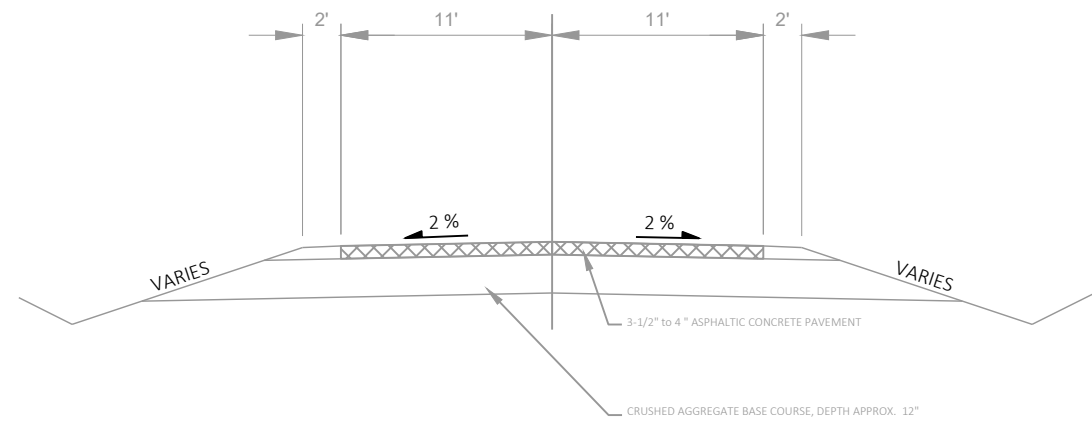
**CULVERT PIPE CHECK**  
 (INSTALL ON INLET END ONLY)

**CULVERT PIPE CHECK**

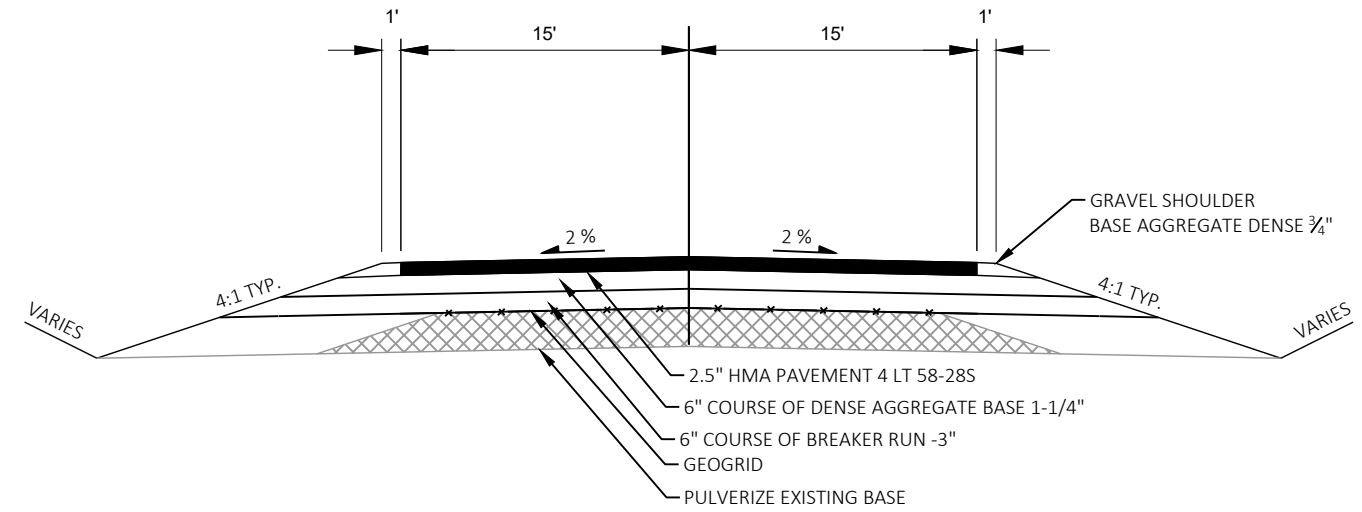
STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION

APPROVED  
 May 2019 /S/ Daniel Schave  
 DATE EROSION CONTROL ENGINEER

FHWA



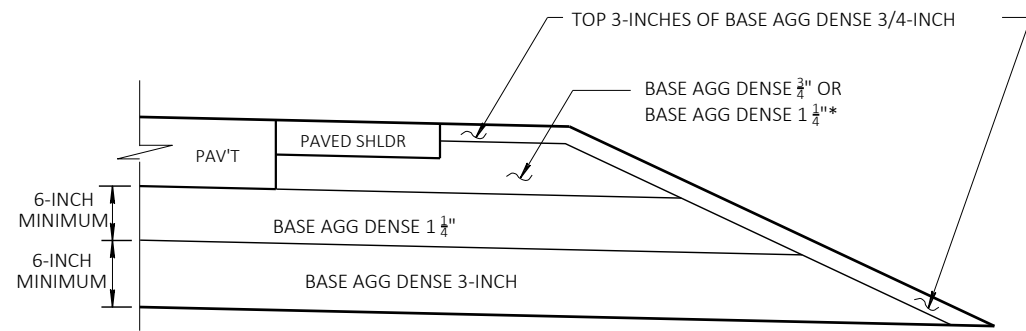
**EXISTING TYPICAL SECTION**  
STA 0+00 - 75+00



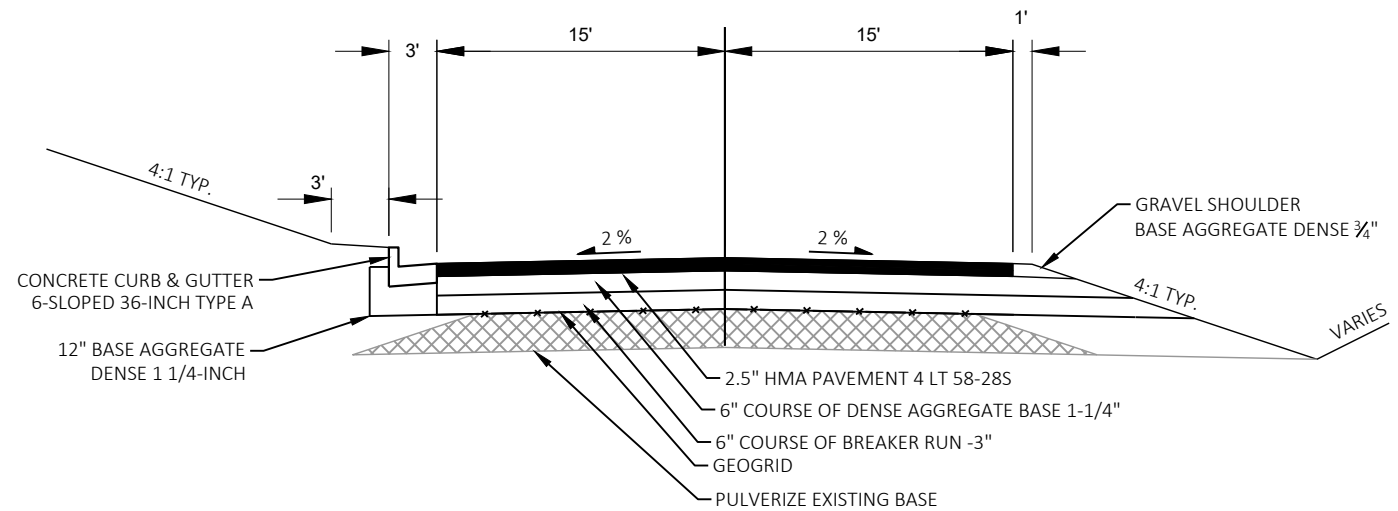
**FINISHED TYPICAL SECTION**

STA 0+00 - 7+73  
STA 18+11 - 30+65  
STA 34+25 - 75+00

**\*ALTERNATE A**  
PROVIDE 3.5" OF HMA  
(1.75" OF 4 LT 58-28S SURFACE COAT)  
(1.75" OF 3 LT 58-28S BINDER COAT)



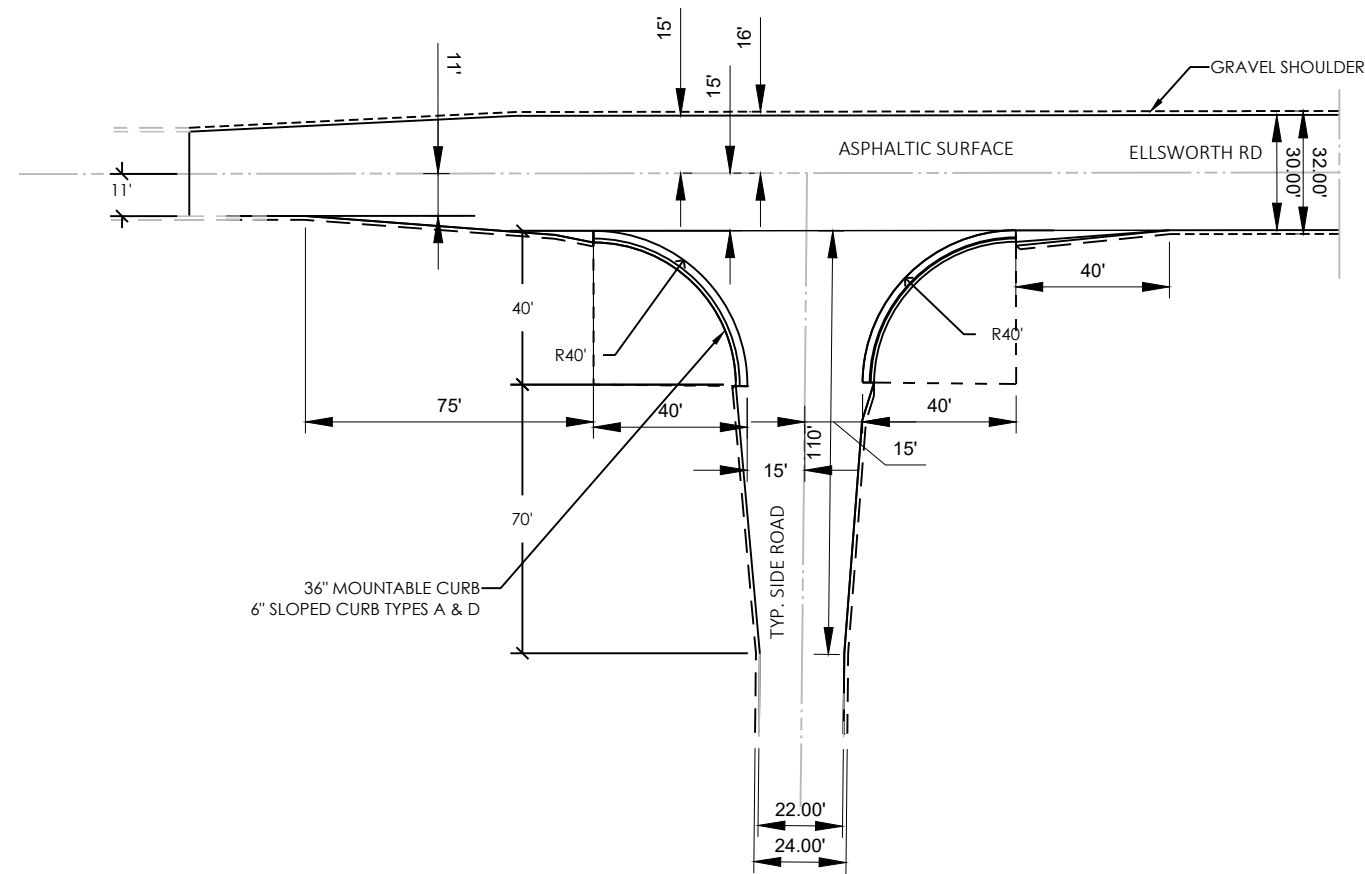
**BASE AGG DENSE 3-INCH REQUIRED**



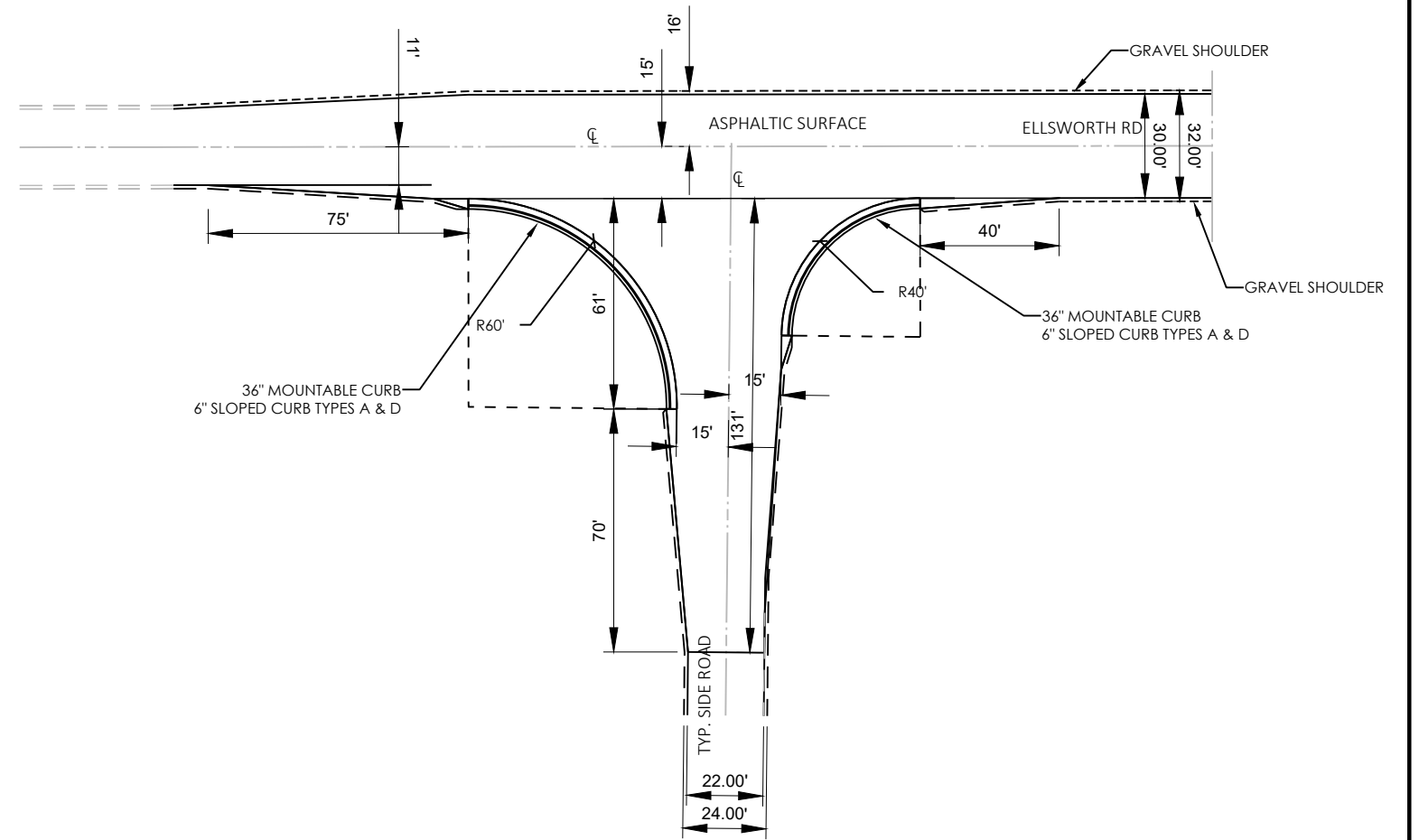
**FINISHED TYPICAL SECTION CURB & GUTTER**

STA 7+73 - 18+11  
STA 30+65 - 34+25

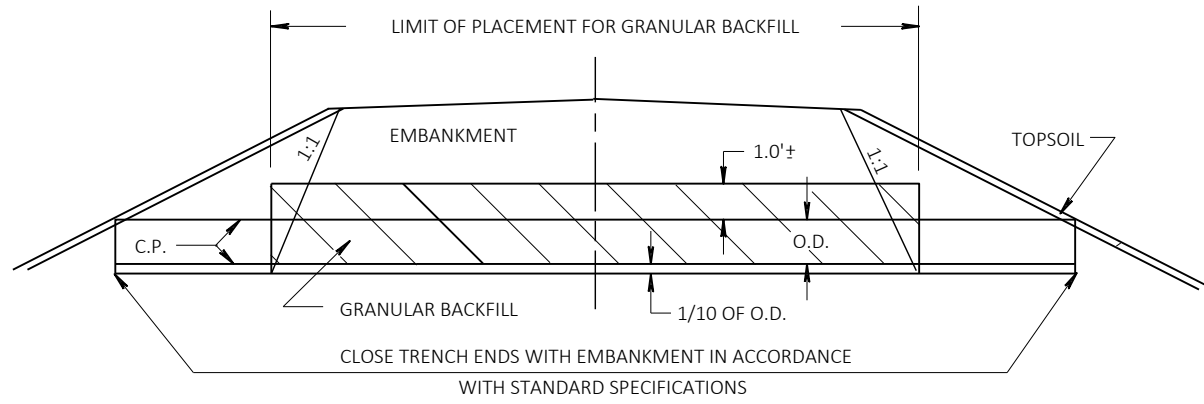
**\*ALTERNATE A**  
PROVIDE 3.5" OF HMA  
(1.75" OF 4 LT 58-28S SURFACE COAT)  
(1.75" OF 3 LT 58-28S BINDER COAT)



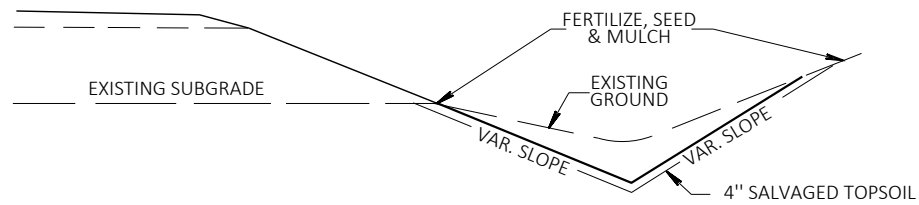
ROAD INTERSECTION DETAIL: ELIXIR RD, EMPEROR AVE, EMBLEM AVE  
(BASE AGGREGATE SHOULDERS)



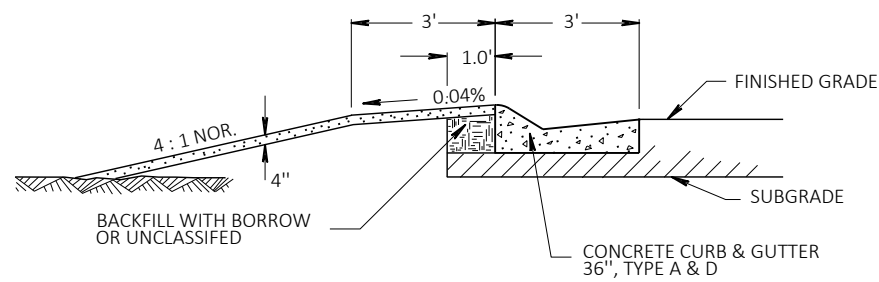
ROAD INTERSECTION DETAIL: ELGIN AVE & ELLIOT AVE  
(BASE AGGREGATE SHOULDERS)



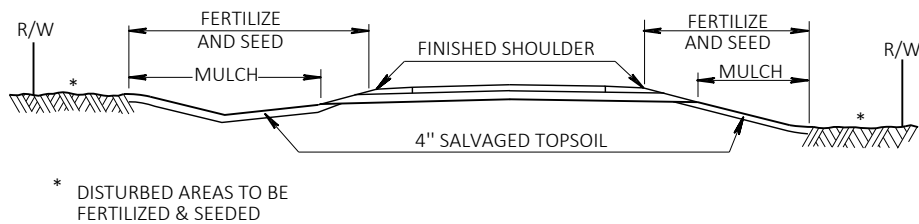
**CULVERT BACKFILL DETAIL**



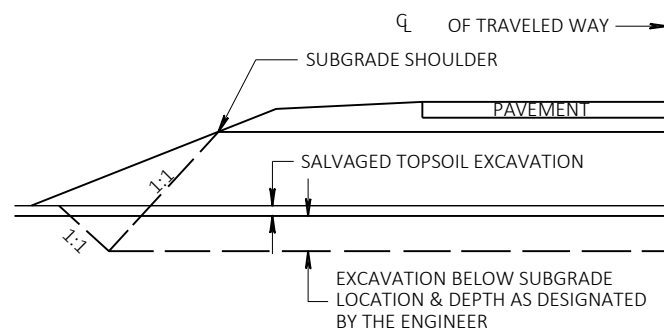
**DITCH SHAPING DETAIL**



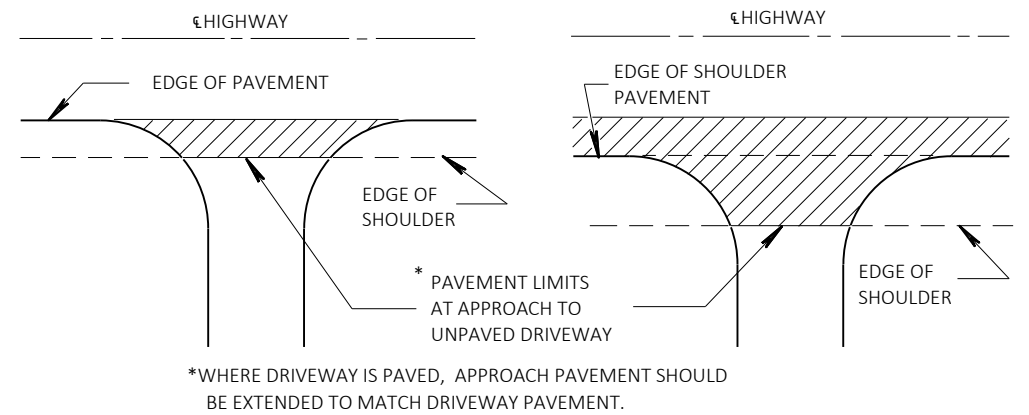
**BERM DETAIL BEHIND 36" MOUNTABLE CURB & GUTTER**



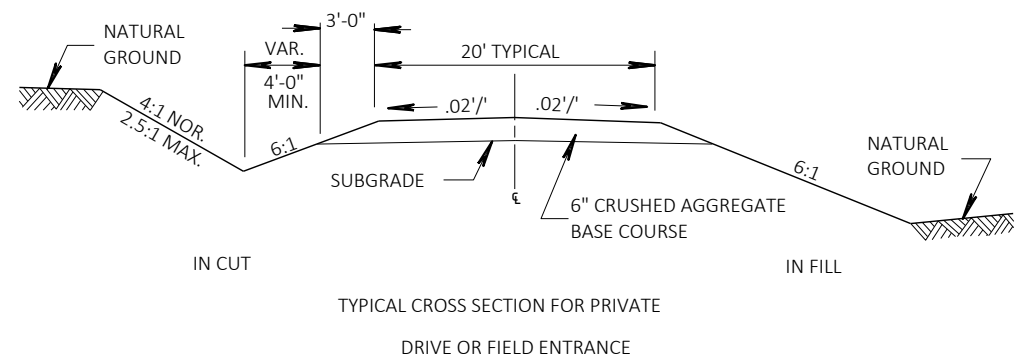
**DETAIL FOR FINISHING ITEMS**



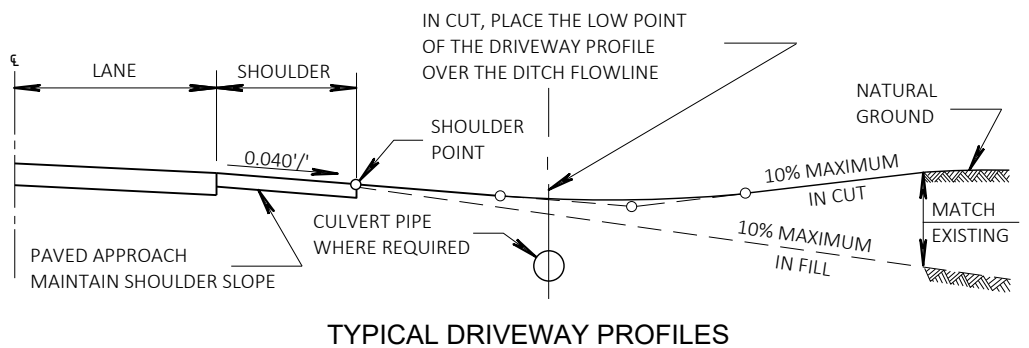
**DETAIL FOR EXCAVATION BELOW SUBGRADE**



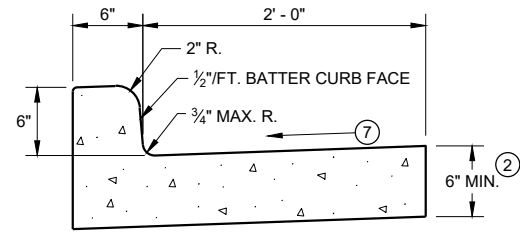
**PLAN VIEW PLAN VIEW (PAVED SHOULDER ON HIGHWAY) RURAL DRIVEWAY INTERSECTION DETAIL**



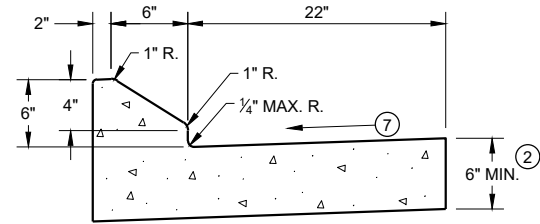
**TYPICAL CROSS SECTION FOR PRIVATE DRIVE OR FIELD ENTRANCE**



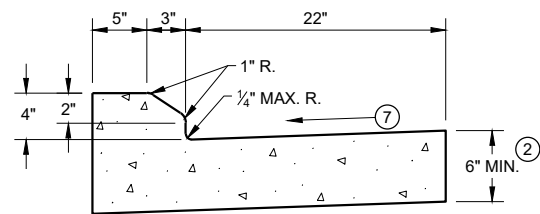
**TYPICAL DRIVEWAY PROFILES**



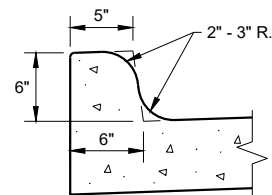
TYPES A<sup>①</sup> & D



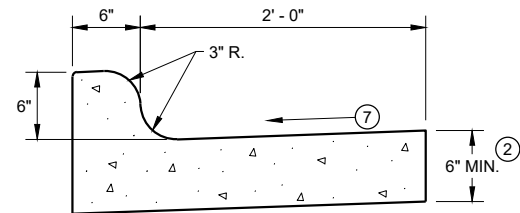
6" SLOPED CURB TYPES G<sup>①</sup> & J



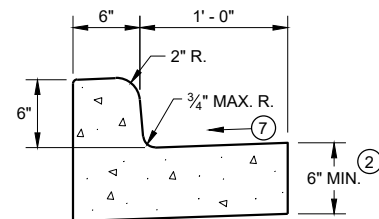
4" SLOPED CURB TYPES G<sup>①</sup> & J



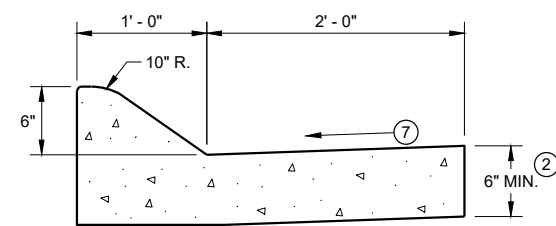
TYPES K<sup>①</sup> & L  
(OPTIONAL CURB SHAPE)



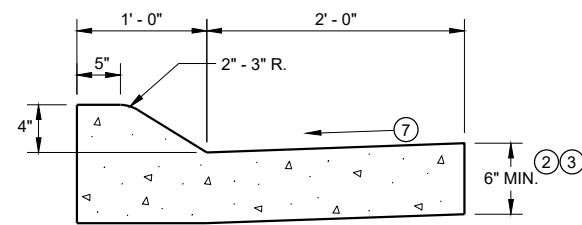
TYPES K<sup>①</sup> & L  
CONCRETE CURB AND GUTTER 30"



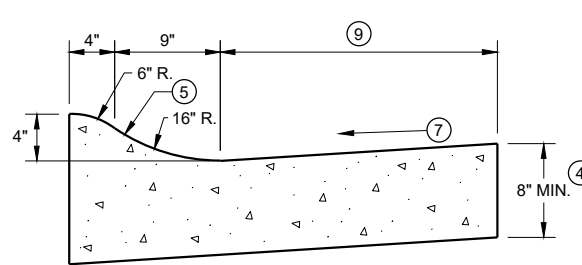
TYPES A<sup>①</sup> & D  
CONCRETE CURB AND GUTTER 18"



6" SLOPED CURB TYPES A<sup>①</sup> & D

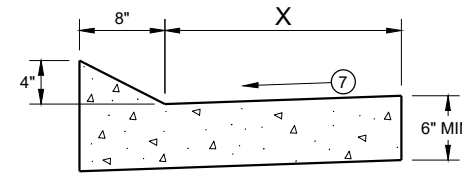


4" SLOPED CURB TYPES A<sup>①</sup> & D  
CONCRETE CURB AND GUTTER 36"



4" SLOPED CURB TYPES R<sup>①</sup> & T

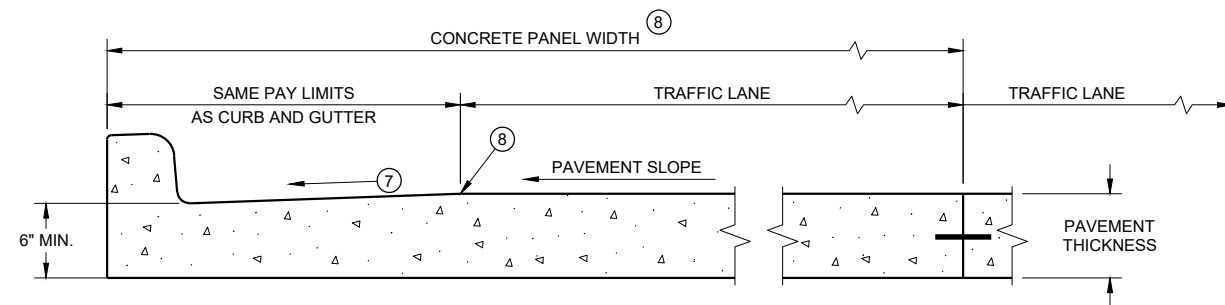
TBT & TBTT	X
30"	22"
36"	28"



TYPES TBT & TBTT<sup>①</sup>  
CONCRETE CURB AND GUTTER

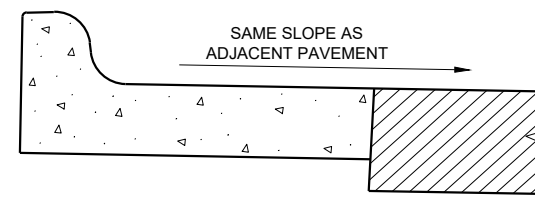
PAVEMENT THICKNESS  
AND MAXIMUM CONCRETE  
PANEL WIDTH TABLE

PAVEMENT THICKNESS	MAXIMUM PANEL WIDTH
LESS THAN 10"	12'
10" & ABOVE	15'



PARTIAL SECTION OF PAVEMENT \*  
WITH INTEGRAL CURB AND GUTTER

\* BIKE LANE IS NOT SHOWN



REVERSE SLOPE GUTTER<sup>⑥</sup>  
(TYPICAL FOR ALL CURB & GUTTER TYPES)

GENERAL NOTES

DETAILS OF CONSTRUCTION AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

PAVEMENT TIES AND TIE BARS SHALL BE EPOXY COATED IN CONFORMANCE WITH SUBSECTION 505.2.6.2 OF THE STANDARD SPECIFICATIONS.

INTEGRAL CURB AND GUTTER SHALL CONFORM TO THE DETAILS SHOWN FOR CONCRETE CURB AND GUTTER INCLUDING THE TRANSVERSE GUTTER SLOPE.

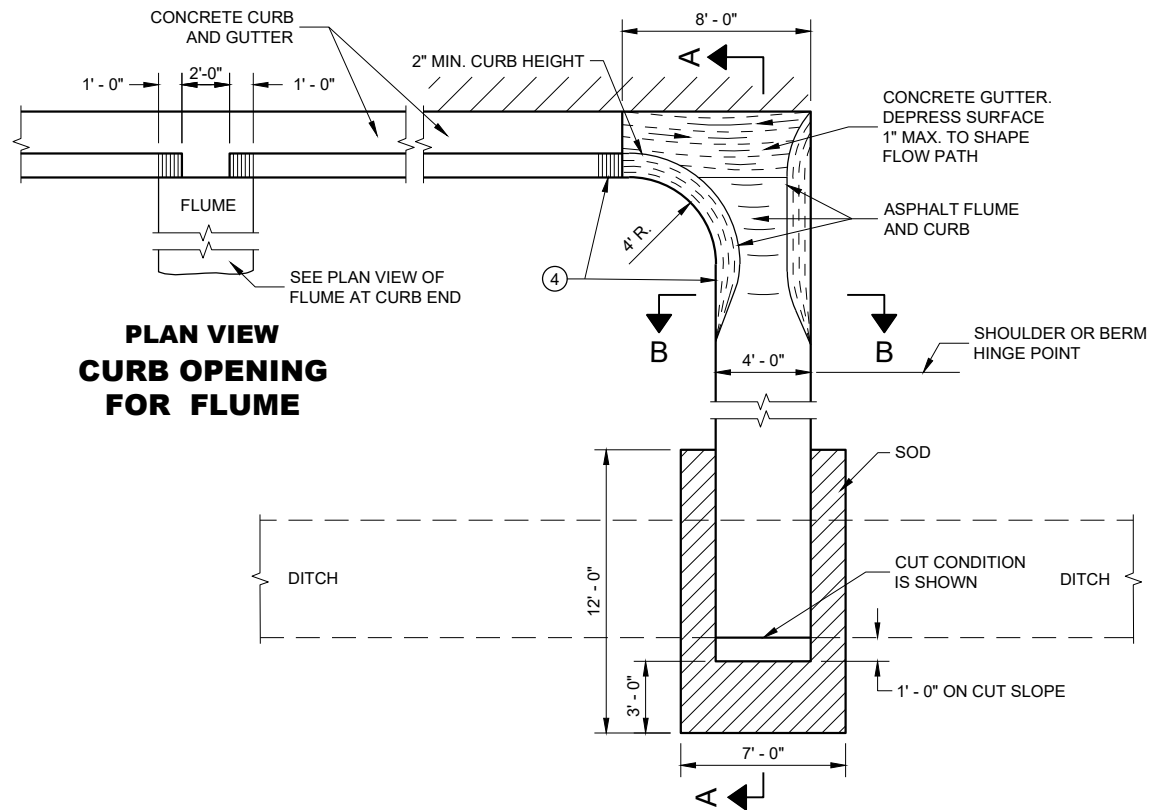
UNLESS OTHERWISE SHOWN ON THE TYPICAL CROSS SECTIONS, THE BASE AGGREGATE AND COMMON EXCAVATION LIMITS ARE 2' - 0" BEHIND THE BACK OF CURBS.

- ① TIE BARS ARE REQUIRED FOR CURB AND GUTTERS TYPES A, G, K, R, AND TBTT.
- ② THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE AGGREGATE PROVIDED A 6" MINIMUM GUTTER THICKNESS IS MAINTAINED.
- ③ USE 8" MINIMUM GUTTER THICKNESS WHEN USED WITH AN ADJACENT CONCRETE TRUCK APRON PLACED BEHIND BACK OF CURB.
- ④ THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE AGGREGATE PROVIDED A 8" MINIMUM GUTTER THICKNESS IS MAINTAINED.
- ⑤ UNLESS OTHERWISE NOTED, FOR STAKING PURPOSES THE FACE OF CURB IS 6" FROM THE BACK OF CURB.
- ⑥ WHEN REVERSE SLOPE GUTTER IS REQUIRED, THE LOCATION(S) WILL BE SHOWN ELSEWHERE IN THE PLAN.
- ⑦ USE 4% GUTTER CROSS SLOPE UNLESS OTHERWISE NOTED IN THE PLANS.
- ⑧ INCLUDE LONGITUDINAL JOINT AND TIE BARS ALONG LANE EDGE WHEN CONCRETE PANEL WIDTH EXCEEDS THE MAXIMUM WIDTH PER TABLE BELOW. LONGITUDINAL JOINT(S) ARE NOT ALLOWED WITHIN TRAFFIC LANES AND BIKE LANES. LONGITUDINAL JOINT MAY BE SAWED.
- ⑨ CONCRETE CURB AND GUTTER 4-INCH SLOPED 30-INCH TYPE "R" AND "T" = 17 INCHES  
CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE "R" AND "T" = 23 INCHES



NOTE: TAPER CURB ENDS TO GUTTER IN 1' - 0"

### ASPHALTIC FLUME



**PLAN VIEW  
CURB OPENING  
FOR FLUME**

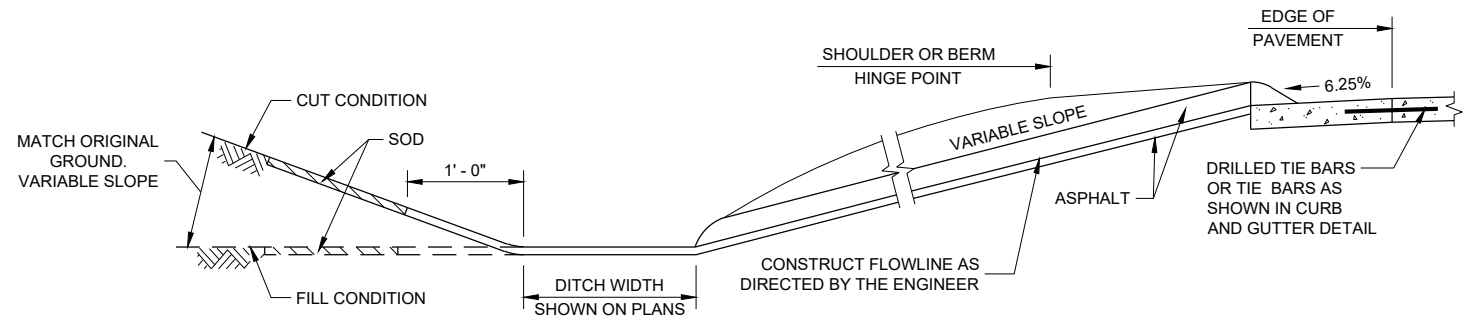
**PLAN VIEW  
FLUME AT CURB END**

### GENERAL NOTES

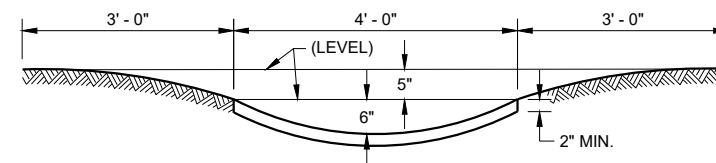
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

4" X 4" - W3.0 X W3.0 CONCRETE REINFORCEMENT SHALL BE IN ACCORDANCE WITH AASHTO SPECIFICATION M55.

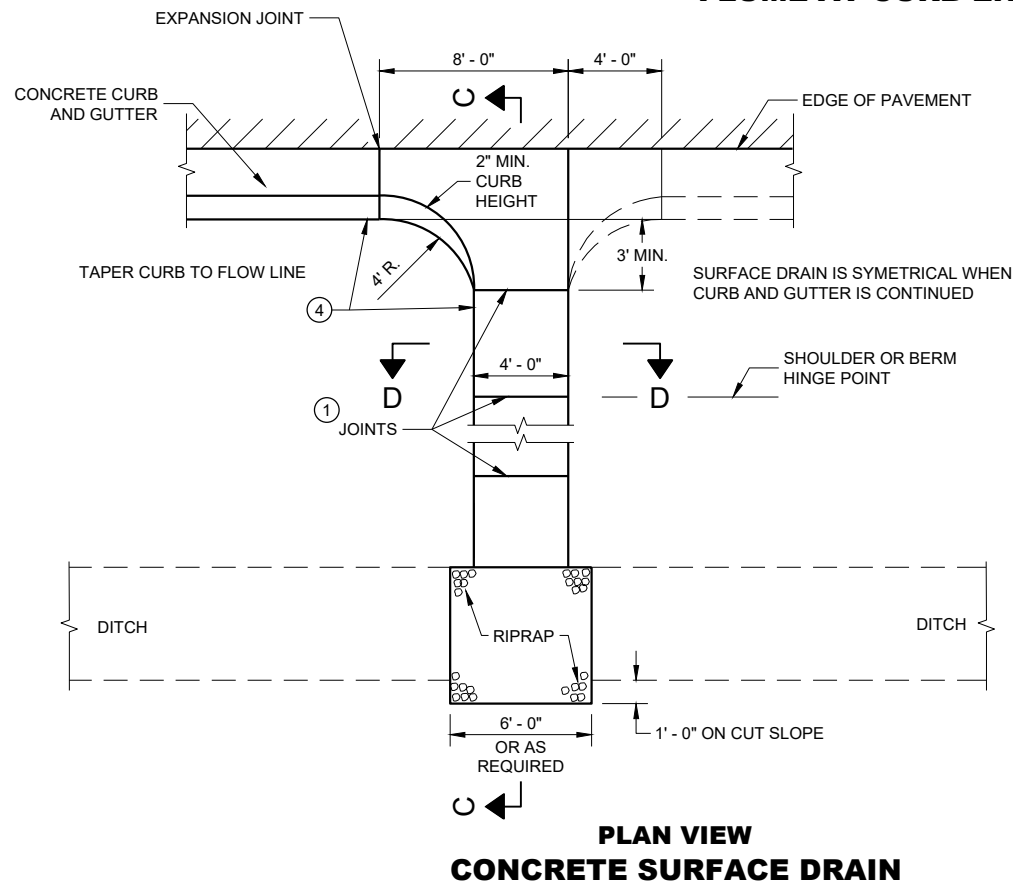
- ① JOINTS SHALL BE 1/8" TO 1/4" WIDE BY 1 1/2" DEEP AND SPACED AT UNIFORM INTERVALS OF APPROXIMATELY 4 FEET.
- ② GEOTEXTILE TYPE "R" SHALL UNDERLAY THE FULL LENGTH AND WIDTH OF THE CONCRETE SURFACE DRAIN AND RIPRAP.
- ③ CONCRETE SURFACE DRAIN WITHOUT CURB AND GUTTER MAY BE USED ON BACKSLOPES WHEN SPECIFIED.
- ④ ANGLE OF FLUME IN RELATION TO BACK OF CURB TO BE CONSTRUCTED PER THE PLAN DETAILS OR AS DIRECTED BY THE ENGINEER. ANGLE OF FLUME MAY BE OTHER THAN 90 DEGREES AS SHOWN.



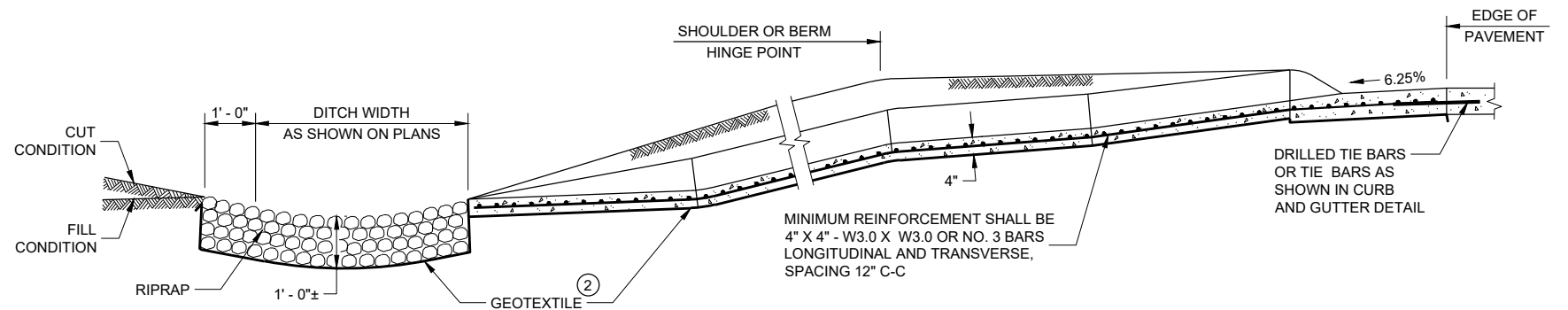
**SECTION A - A**



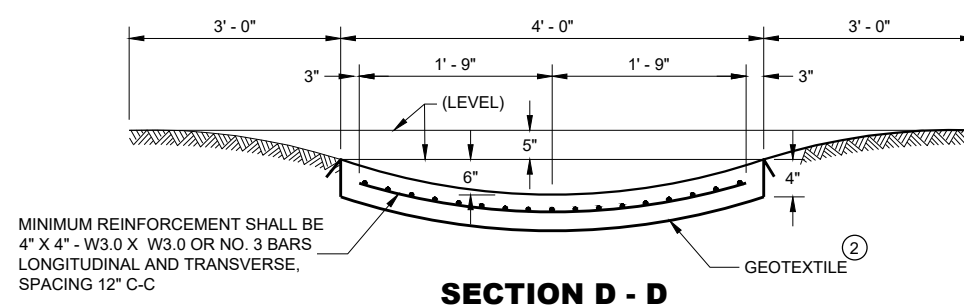
**SECTION B - B**



**PLAN VIEW  
CONCRETE SURFACE DRAIN**



**SECTION C - C**

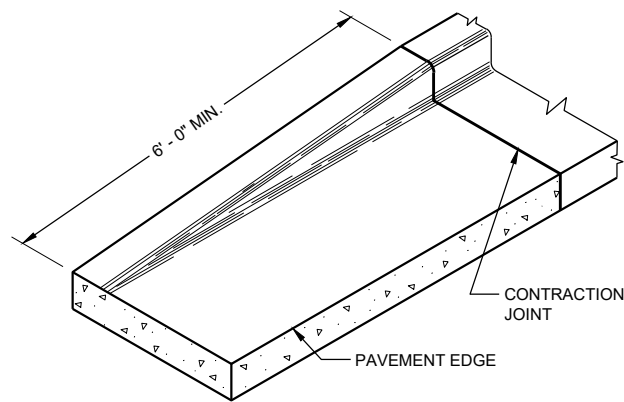


**SECTION D - D**

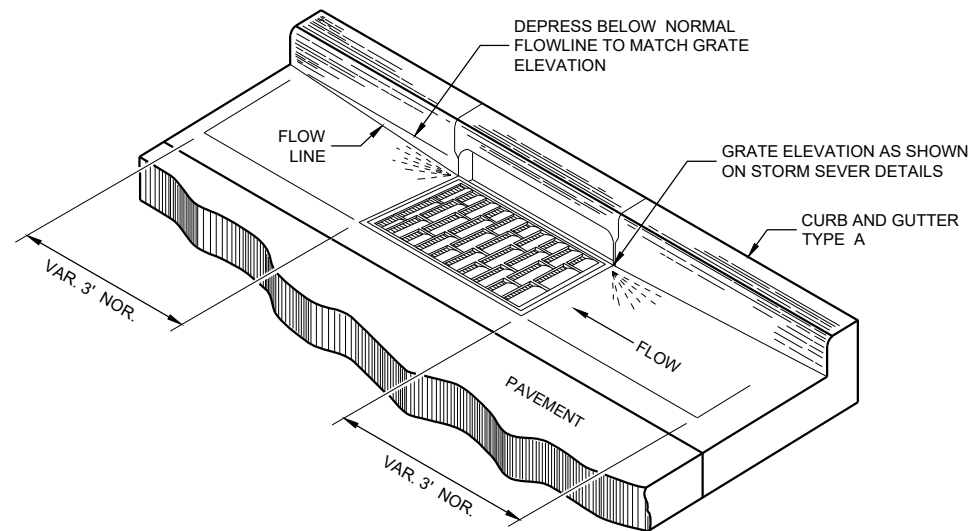
### CONCRETE SURFACE DRAINS AND ASPHALTIC FLUMES

STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION

APPROVED  
November 2021 /S/ Rodney Taylor  
DATE ROADWAY STANDARDS DEVELOPMENT  
ENGINEER  
FHWA



**END SECTION CURB AND GUTTER**



**DETAIL OF CURB AND GUTTER AT INLETS**  
(TYPICAL H INLET COVER SHOWN)

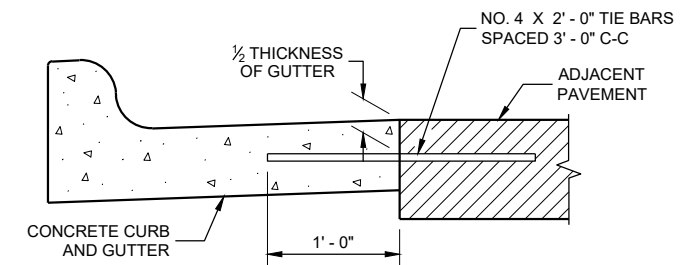
**GENERAL NOTES**

DETAILS OF CONSTRUCTION AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

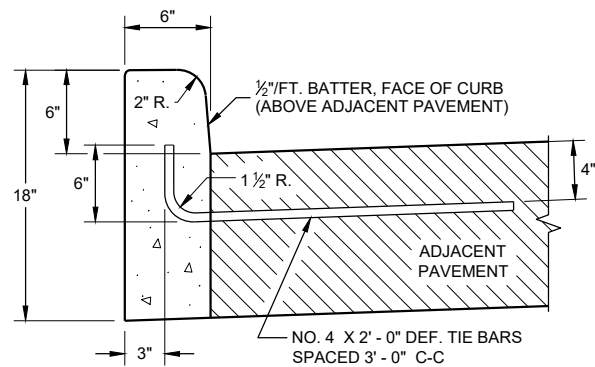
PAVEMENT TIES AND TIE BARS SHALL BE EPOXY COATED IN CONFORMANCE WITH SUBSECTION 505.2.6.2 OF THE STANDARD SPECIFICATIONS.

UNLESS OTHERWISE SHOWN ON THE TYPICAL CROSS SECTIONS, THE BASE AGGREGATE AND COMMON EXCAVATION LIMITS ARE 2' - 0" BEHIND THE BACK OF CURBS.

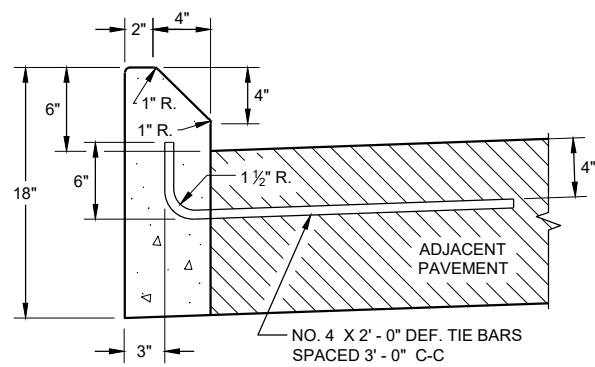
- ① TIE BARS ARE REQUIRED FOR CURB AND GUTTERS TYPES A, G, K, R, AND TBTT.
- ② THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE AGGREGATE PROVIDED A 6" MINIMUM GUTTER THICKNESS IS MAINTAINED.
- ⑨ REFER TO SDD 08D18 AND 08D19 FOR ADDITIONAL DRIVEWAY ENTRANCE CURB DETAILS.



**TYPICAL TIE BAR LOCATION** ①

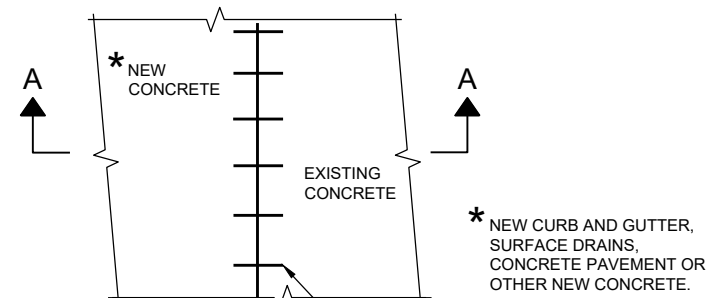


**TYPES A ① & D**

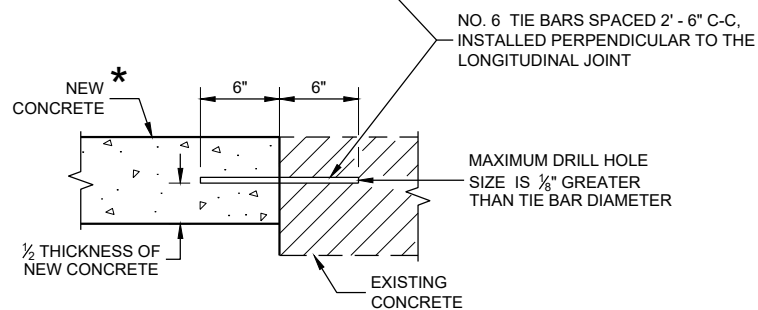


**TYPES G ① & J**

**CONCRETE CURB**

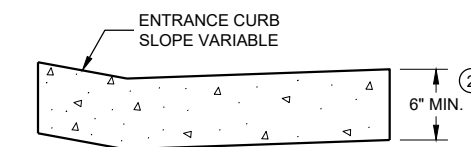


**PLAN VIEW**



**SECTION A - A**

**TIE BARS DRILLED INTO EXISTING PAVEMENT**



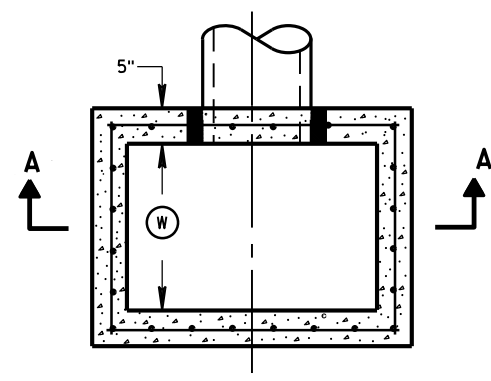
**DRIVEWAY ENTRANCE CURB** ⑨  
(WHEN DIRECTED BY THE ENGINEER)

**CONCRETE CURB, TIES AND CURB AND GUTTER APPLICATIONS**

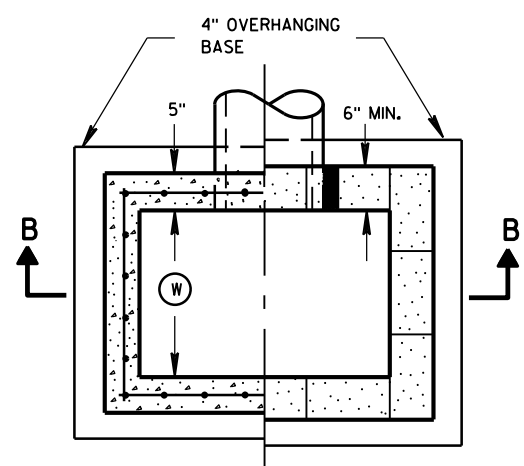
STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION

APPROVED  
February 2021 /S/ Rodney Taylor  
DATE ROADWAY STANDARDS DEVELOPMENT  
ENGINEER

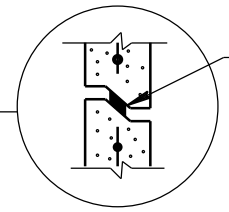
FHWA



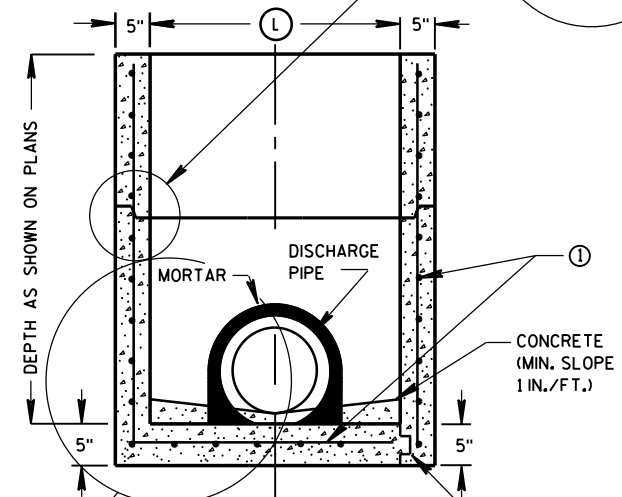
PLAN VIEW



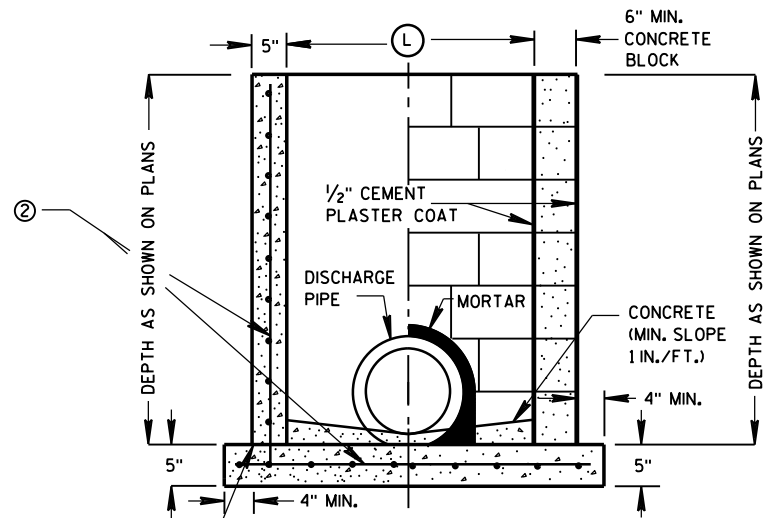
PLAN VIEW



RISER JOINTS TO BE SEALED WITH A BUTYL RUBBER SEAL PER SEALANT MANUFACTURERS RECOMMENDATIONS CONFORMING TO ASTM C 990 (TYP)



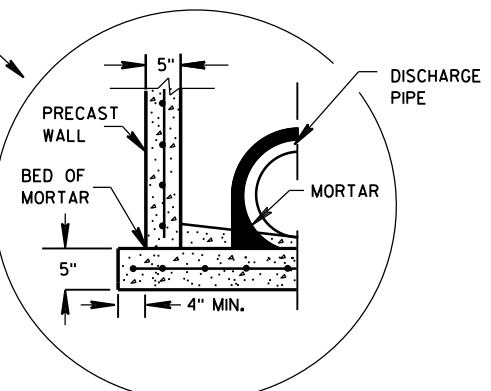
SECTION A-A



SECTION B-B

PRECAST REINFORCED CONCRETE WITH MONOLITHIC BASE  
 PRECAST REINFORCED CONCRETE WITH INTEGRAL BASE  
 KEYWAY

CONSTRUCTION JOINT  
 CAST-IN-PLACE REINFORCED CONCRETE  
 CONCRETE BLOCK WITH CAST-IN-PLACE OR PRECAST REINFORCED CONCRETE BASE ①



SEPARATE PRECAST REINFORCED CONCRETE BASE OPTION

**GENERAL NOTES**

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

UNLESS OTHERWISE AUTHORIZED IN WRITING BY THE ENGINEER, THE CONTRACTOR SHALL NOT ORDER AND DELIVER PRECAST INLET UNITS REQUIRED FOR THE PROJECT UNTIL A LIST OF SIZES IS FURNISHED BY THE ENGINEER.

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR UNDERGROUND DRAINAGE STRUCTURES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ALL PRECAST INLET UNITS SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF ASTM C 913.

ALL DRAINAGE STRUCTURES ARE DESIGNATED ON THE PLANS AS "MANHOLES 3X3-L", "CATCH BASINS 4-B", "INLETS 2X3-H", ETC. THE FIRST NUMBERS DESIGNATES THE SIZE OF THE STRUCTURE, AND THE FOLLOWING LETTER DESIGNATES THE TYPE OF COVER TO BE USED TO COMPRISE THE COMPLETE UNIT.

BASES SHALL BE PLACED ON A BED OF MATERIAL AT LEAST 6 INCHES IN DEPTH, WHICH MEETS THE REQUIREMENTS OF FOUNDATION BACKFILL. THIS BEDDING SHALL BE COMPACTED AND PROVIDE UNIFORM SUPPORT FOR THE ENTIRE AREA OF THE BASE.

ALL BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2 INCHES CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

PRECAST REINFORCED RISERS SHALL HAVE A TONGUE AND GROOVE JOINT WITH TONGUE UP OR DOWN.

4" OVERHANGING BASES ARE REQUIRED FOR CAST-IN-PLACE REINFORCED CONCRETE AND CONCRETE BLOCK INSTALLATIONS. 4" OVERHANG IS REQUIRED WHEN SEPARATE PRECAST BASE IS PROVIDED. OVERHANG IS NOT REQUIRED ON PRECAST STRUCTURES WITH AN INTEGRAL OR MONOLITHIC BASE.

MAXIMUM INSIDE PIPE DIAMETER DETERMINED BY 3 INCH CLEARANCE ON EACH SIDE OF THE OUTSIDE WALL OF THE PIPE. SEE DETAIL "A". ASSUMES PIPE ENTERS PERPENDICULAR TO THE STRUCTURE.

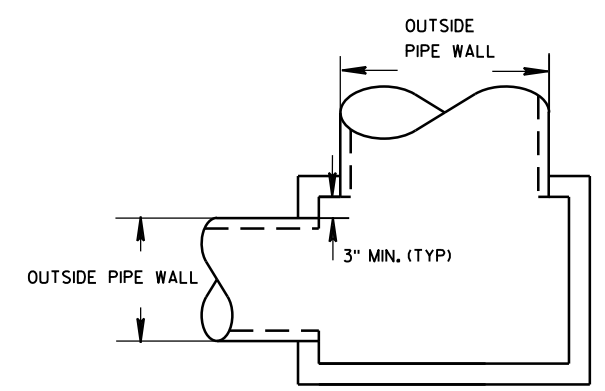
- ① FOR PRECAST INLETS PROVIDE REINFORCING STEEL IN ACCORDANCE TO ASTM C 913.
- ② CONTRACTOR TO PROVIDE DRAWING(S) STAMPED BY A PROFESSIONAL ENGINEER FOR STEEL REINFORCING DESIGN FOR CAST-IN-PLACE STRUCTURES.

**INLET COVER MATRIX**

INLET SIZE	INLET COVER TYPE		ALL A'S	ALL B'S	BW	F	ALL H'S	S	T	V	WM
	WIDTH (W) (FT)	LENGTH (L) (FT)									
2X2-FT	2	2	X	X				X		X	
2X2.5-FT	2	2.5			X			X	X	X	X
2X3-FT	2	3					X				
2.5X3-FT	2.5	3				X					

**PIPE MATRIX**

INLET SIZE	MAXIMUM INSIDE PIPE DIAMETER	
	WIDTH (IN)	LENGTH (IN)
2X2-FT	12	12
2X2.5-FT	12	18
2X3-FT	12	24
2.5X3-FT	18	24



DETAIL "A"

**INLETS 2X2-FT, 2X2.5-FT, 2X3-FT AND 2.5X3-FT**

**INLETS 2X2-FT, 2X2.5-FT,  
2X3-FT AND 2.5X3-FT**

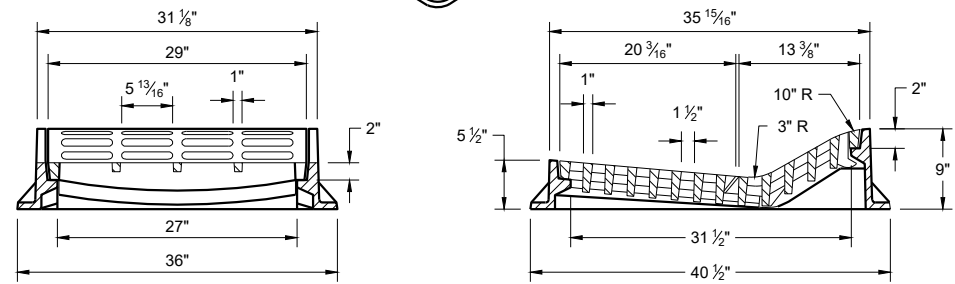
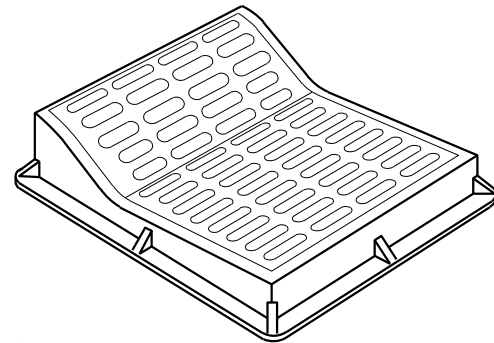
STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION

APPROVED  
 Sept., 2016 /S/ Rodney Taylor  
 DATE ROADWAY STANDARDS DEVELOPMENT  
 FHWA UNIT SUPERVISOR **C3.7**

**GENERAL NOTES**

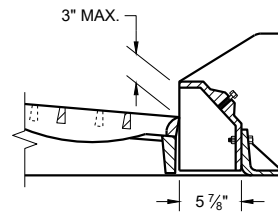
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

DETAIL DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR INLET COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.



**TYPE "F"**

USE WITH TYPES "A" AND "D" CONCRETE CURB AND GUTTER, 36"

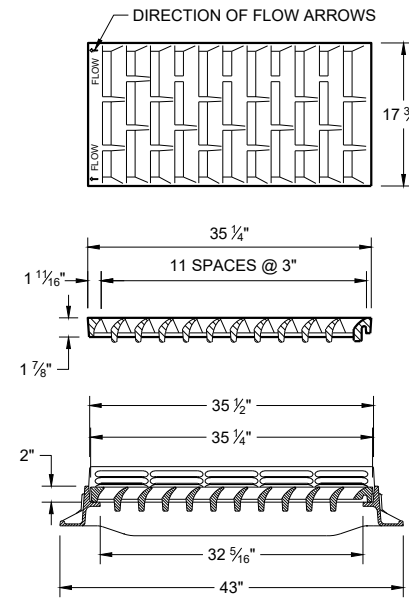


**ALTERNATIVE CURB BOX FOR TYPE "HM" COVER**

USE WITH TYPES "G" AND "J" CONCRETE CURB AND GUTTER, 30 INCH NOTED AS TYP "HM-GJ" ON DRAINAGE TABLE

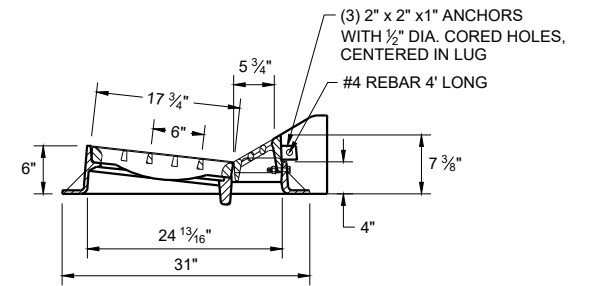
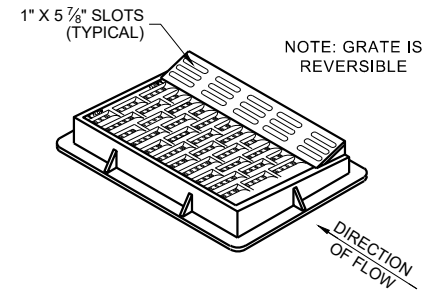
NOTE: SPECIAL GRATE FOR THE TYPE "H" COVER MAY ALSO BE USED FOR THE TYPE "HM-GJ" COVER.

NOTED AS TYPE HM-GJ-S ON THE DRAINAGE TABLE.



**TYPE "HM"**

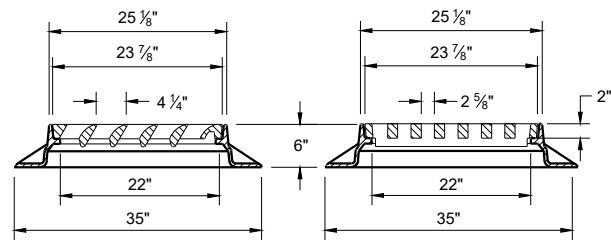
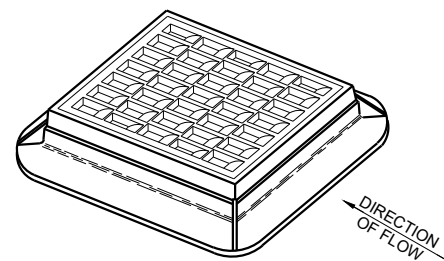
USE WITH TYPES "A" AND "D" CONCRETE CURB AND GUTTER, 36"



NOTE: SPECIAL GRATE FOR THE TYPE "H" COVER MAY ALSO BE USED FOR THE TYPE "HM-GJ" COVER.

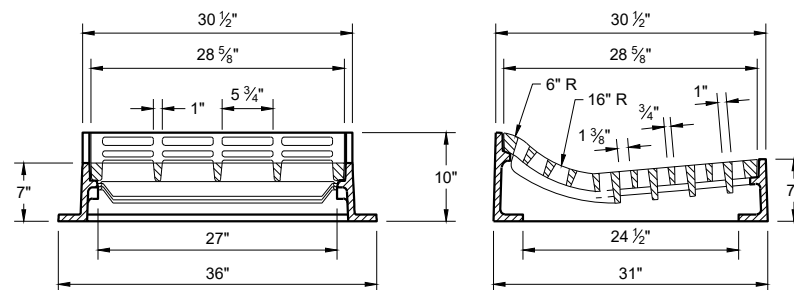
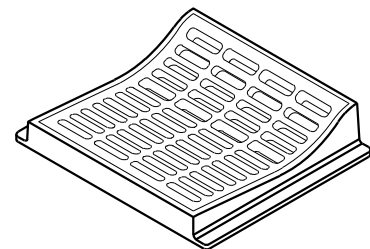
NOTED AS TYPE HM-GJ-S ON THE DRAINAGE TABLE.

6



**TYPE "S"**

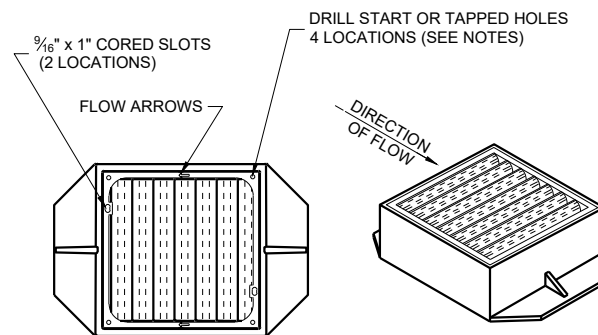
SDD 08A05-20C



**TYPE "T"**

USE WITH TYPES "R" AND "T" CONCRETE CURB AND GUTTER, 36"

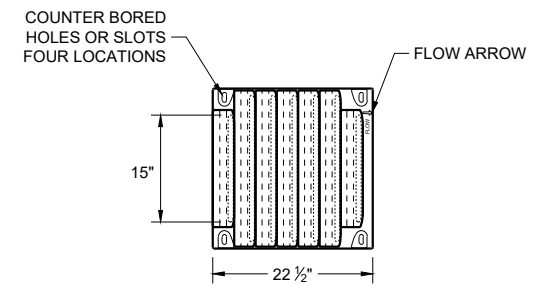
6



**TYPE "V"**

NOTES: ALL HARDWARE TO BE SUPPLIED BY CASTING MANUFACTURER ALL DRILLING AND TAPPING GRATES AND FRAMES BY CASTING MANUFACTURER

TYPE V  
FRAME - CAST GRAY IRON ASTM A48 CLASS 40A  
3/8" DIA. X 1/16" DRILL START IN 4 LOCATIONS  
GRATE - CAST GRAY IRON ASTM A-48, CLASS 35B



**BOLT DOWN GRATE FOR TYPE "V" COVER**

NOTES: ALL HARDWARE TO BE SUPPLIED BY CASTING MANUFACTURER NOTED AS TYPE "V-B" ON DRAINAGE TABLE

TAP 1/2" -13 HOLES IN FOUR LOCATIONS IN FRAME TO BOLT GRATE FRAME - CAST GRAY IRON ASTM A48 CLASS 40A

GRATE - CAST DUCTILE IRON ASTM A536, 55+KSI YIELD BOLTS - 1/2" -13 STAINLESS STEEL BOLTS WITH WASHERS TORQUE BOLTS TO MANUFACTURER SPECIFICATION DO NOT OVERTIGHTEN.

**INLET COVERS  
TYPES F, HM, HM-S, S, T, V,  
HM-GJ AND HM-GJ-S**

STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION

APPROVED  
July 2023 /S/ Rodney Taylor  
DATE ROADWAY STANDARDS DEVELOPMENT  
FHWA UNIT SUPERVISOR

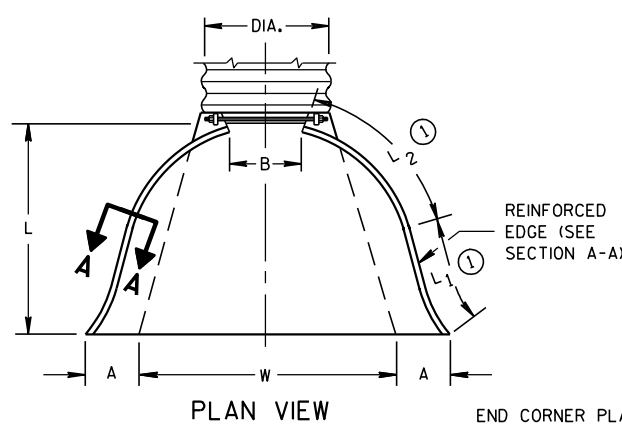
SDD 08A05-20C

METAL APRON ENDWALLS											
PIPE DIA. (IN.)	MIN. THICK. (Inches)		DIMENSIONS (Inches)							APPROX. SLOPE	BODY
	STEEL	ALUM.	A (±1")	B (MAX.)	H (±1")	L (±1 1/2")	L1	L2	W (±2")		
12	.064	.060	6	6	6	21	12	17 1/2	24	2 1/2 to 1	1 Pc.
15	.064	.060	7	8	6	26	14	21 3/4	30	2 1/2 to 1	1 Pc.
18	.064	.060	8	10	6	31	15	28 1/4	36	2 1/2 to 1	1 Pc.
21	.064	.060	9	12	6	36	18	29 5/8	42	2 1/2 to 1	1 Pc.
24	.064	.075	10	13	6	41	18	37 1/4	48	2 1/2 to 1	1 Pc.
30	.079	.075	12	16	8	51	18	52 1/4	60	2 1/2 to 1	1 Pc.
36	.079	.105	14	19	9	60	24	59 3/4	72	2 1/2 to 1	2 Pc.
42	.109	.105	16	22	11	69	24	75 5/8	84	2 1/2 to 1	2 Pc.
48	.109	.105	18	27	12	78	24	81	90	2 1/4 to 1	3 Pc.
54	.109	.105	18	30	12	84	30	85 1/2	102	2 1/4 to 1	3 Pc.
60	.109x	.105x	18	33	12	87	—	114	120	2 to 1	3 Pc.
66	.109x	.105x	18	36	12	87	—	120	144	2 to 1	3 Pc.
72	.109x	.105x	18	39	12	87	—	126	162	2 to 1	3 Pc.
78	.109x	.105x	18	42	12	87	—	132	180	1 1/2 to 1	3 Pc.
84	.109x	.105x	18	45	12	87	—	138	216	1 1/2 to 1	3 Pc.
90	.109x	.105x	18	37	12	87	—	144	270	1 1/2 to 1	3 Pc.
96	.109x	.105x	18	35	12	87	—	150	324	1 1/2 to 1	3 Pc.

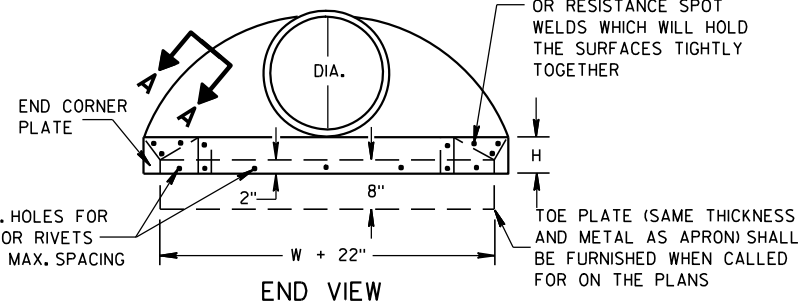
\* EXCEPT CENTER PANEL SEE GENERAL NOTES

REINFORCED CONCRETE APRON ENDWALLS									
PIPE DIA. (IN.)	DIMENSIONS (Inches)							APPROX. SLOPE	
	T	A	B	C	D	E	G		
12	2	4	24	48 1/8	72 1/8	24	2	3 to 1	
15	2 1/4	6	27	46	73	30	2 1/4	3 to 1	
18	2 1/2	9	27	46	73	36	2 1/2	3 to 1	
21	2 3/4	9	36	37 1/2	73 1/2	42	2 3/4	3 to 1	
24	3	9 1/2	43 1/2	30	73 1/2	48	3	3 to 1	
27	3 1/4	10 1/2	49 1/2	24	73 1/2	54	3 1/4	3 to 1	
30	3 1/2	12	54	19 3/4	73 1/2	60	3 1/2	3 to 1	
36	4	15	63	34 3/4	97 3/4	72	4	3 to 1	
42	4 1/2	21	63	35	98	78	4 1/2	3 to 1	
48	5	24	72	26	98	84	5	3 to 1	
54	5 1/2	27	65	33 1/4-35	98 1/4-100	90	5 1/2	2 1/2 to 1	
60	6	30-35	60	39	99	96	5	2 to 1	
66	6 1/2	30-35	72-78	21-27	99	102	5 1/2	2 to 1	
72	7	30-35	78	21	99	108	6	2 to 1	
78	7 1/2	30-35	78	21	99	114	6 1/2	2 to 1	
84	8	36	90 1/2	21	111 1/2	120	6 1/2	1 1/2 to 1	
90	8 1/2	41	87 1/2	24	111 1/2	132	6 1/2	1 1/2 to 1	

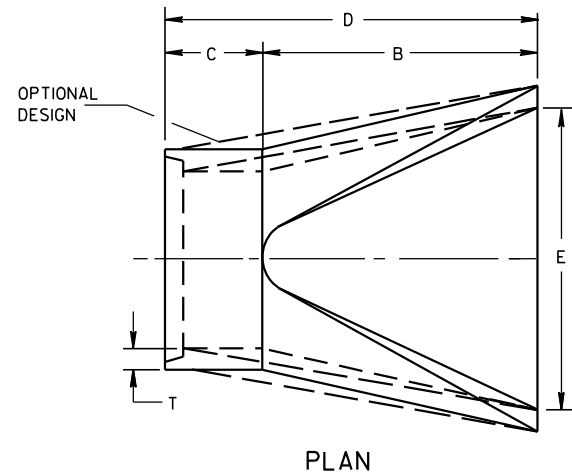
\* MINIMUM  
\*\* MAXIMUM



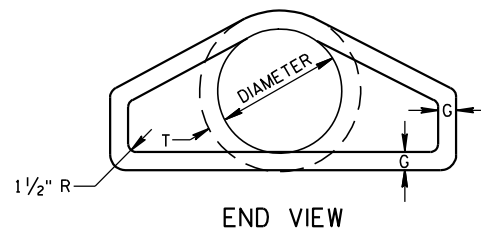
END CORNER PLATES MAY BE FASTENED TO APRON PROPER BY BOLTS, RIVETS, OR RESISTANCE SPOT WELDS WHICH WILL HOLD THE SURFACES TIGHTLY TOGETHER



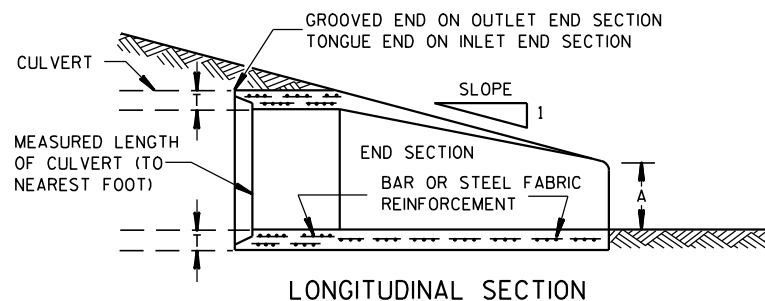
SIDE ELEVATION  
METAL ENDWALLS



PLAN

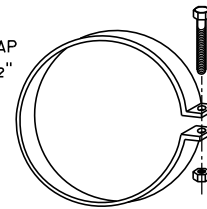


END VIEW

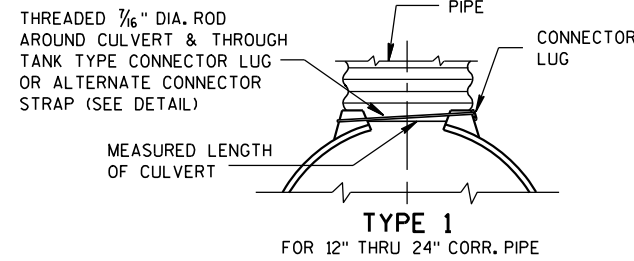


LONGITUDINAL SECTION  
CONCRETE ENDWALLS

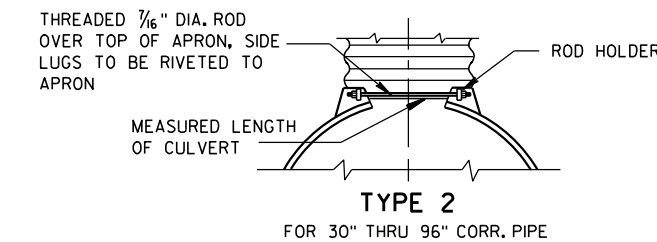
1" WIDE, 12 GA. (0.109" THICK) GALVANIZED STRAP WITH STANDARD 6" X 1/2" BAND BOLT AND NUT



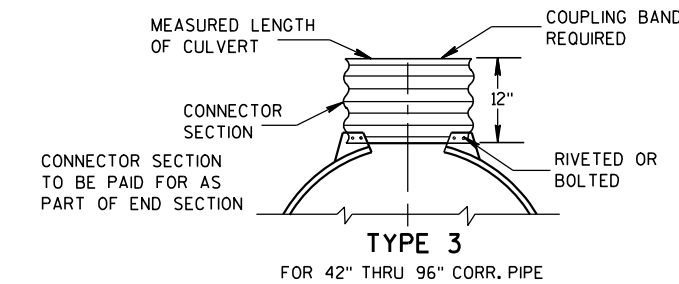
ALTERNATE FOR TYPE 1 CONNECTION  
END SECTION CONNECTOR STRAP



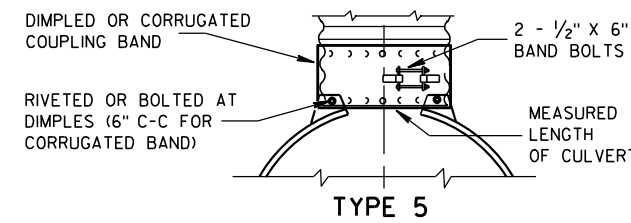
TYPE 1  
FOR 12" THRU 24" CORR. PIPE



TYPE 2  
FOR 30" THRU 96" CORR. PIPE



TYPE 3  
FOR 42" THRU 96" CORR. PIPE



ALTERNATE FOR:  
ALL SIZES CORRUGATED CIRCULAR PIPE

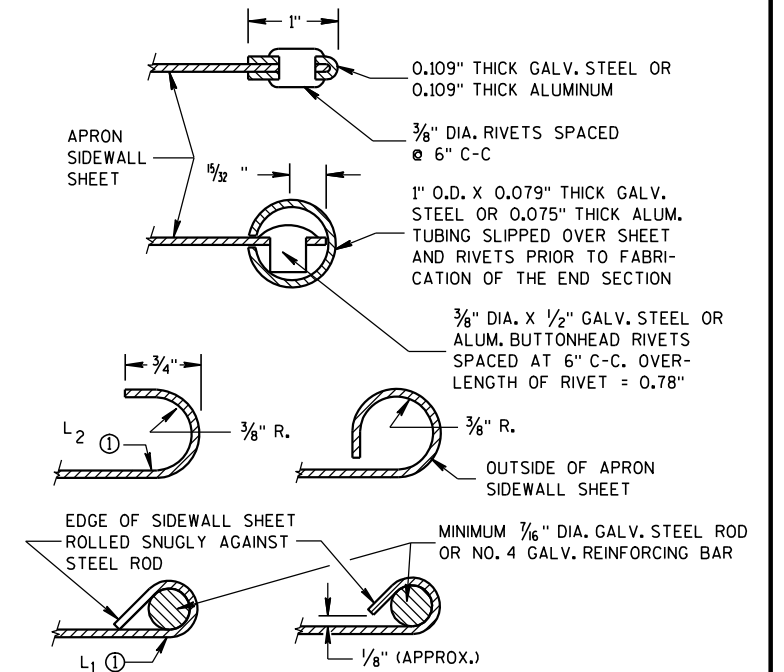
NOTE: DIMPLED BAND FITS OVER OUTSIDE OF ENDWALL, AND CORRUGATED BAND FITS INSIDE ENDWALL. DIMPLED BAND MAY BE USED WITH HELICALLY CORRUGATED PIPE.

FOR CIRCUMFERENTIALLY CORRUGATED PIPE USE ENDWALL CONNECTION DETAILS 1, 2, 3 OR 5 AS APPLICABLE.

FOR HELICALLY CORRUGATED PIPE USE ENDWALL CONNECTION DETAILS 1, 2 OR 5.

FOR HELICALLY CORRUGATED PIPES WITH TWO CIRCUMFERENTIAL CORRUGATIONS AT EACH END USE ENDWALL CONNECTION DETAILS 1, 2 OR 3.

CONNECTION DETAILS



SECTION A-A

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

CONCRETE CULVERT ENDWALLS MAY NOT BE USED WITH GALVANIZED STEEL OR ALUMINUM CULVERT PIPE OR VICE VERSA. GALVANIZED STEEL OR ALUMINUM ENDWALLS SHALL NORMALLY BE INSTALLED ON CULVERT PIPE OF THE SAME METAL.

ALL THREE PIECE STEEL APRON ENDWALLS FOR 60" DIAMETER PIPE AND LARGER SHALL HAVE 0.109" SIDES AND 0.138" CENTER PANELS. ALL THREE PIECE ALUMINUM APRON ENDWALLS FOR 60" DIAMETER PIPE AND LARGER SHALL HAVE 0.105" SIDES AND 0.134" CENTER PANELS. THE WIDTH OF CENTER PANELS SHALL BE GREATER THAN 20 PERCENT OF THE PIPE PERIMETER.

LAP SEAMS SHALL BE TIGHTLY JOINED BY GALVANIZED RIVETS OR BOLTS FOR STEEL UNITS AND ALUMINUM RIVETS AND BOLTS FOR ALUMINUM UNITS. FOR THE 60" THROUGH 96" DIAMETER APRON ENDWALL SIZES, THE REINFORCED EDGES AND CENTER PANEL SEAMS SHALL BE FURTHER REINFORCED WITH GALVANIZED STEEL OR ALUMINUM STIFFENER ANGLES. THE ANGLES SHALL BE ATTACHED BY GALVANIZED NUTS AND BOLTS FOR STEEL UNITS AND ALUMINUM NUTS AND BOLTS FOR ALUMINUM UNITS.

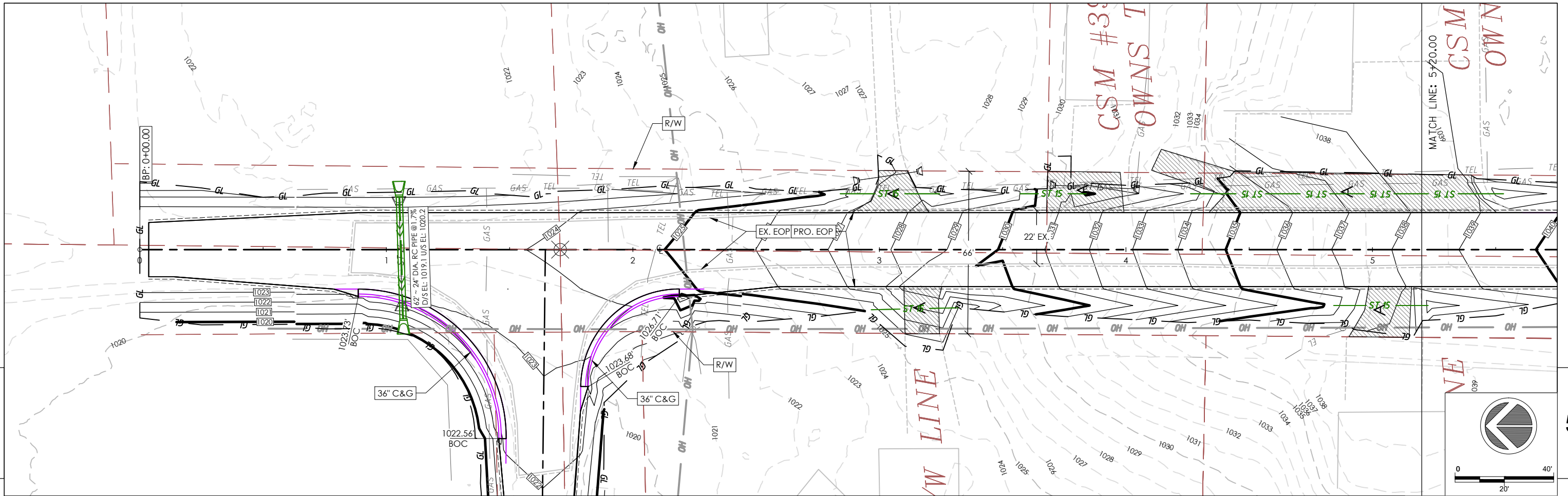
WHERE TWO OR MORE PIPES WITH APRON ENDWALLS ARE LAID ADJACENT TO EACH OTHER, THEY SHALL BE SEPARATED BY A DISTANCE SUFFICIENT TO PROVIDE A MINIMUM CLEARANCE OF 6 INCHES BETWEEN APRON ENDWALLS.

① FOR PIPE SIZES UP TO 60" DIAMETER, A 180° ROLLED EDGE MAY BE USED INSTEAD OF STEEL ROD REINFORCEMENT. SEE SECTION A-A.

APRON ENDWALLS FOR  
CULVERT PIPE

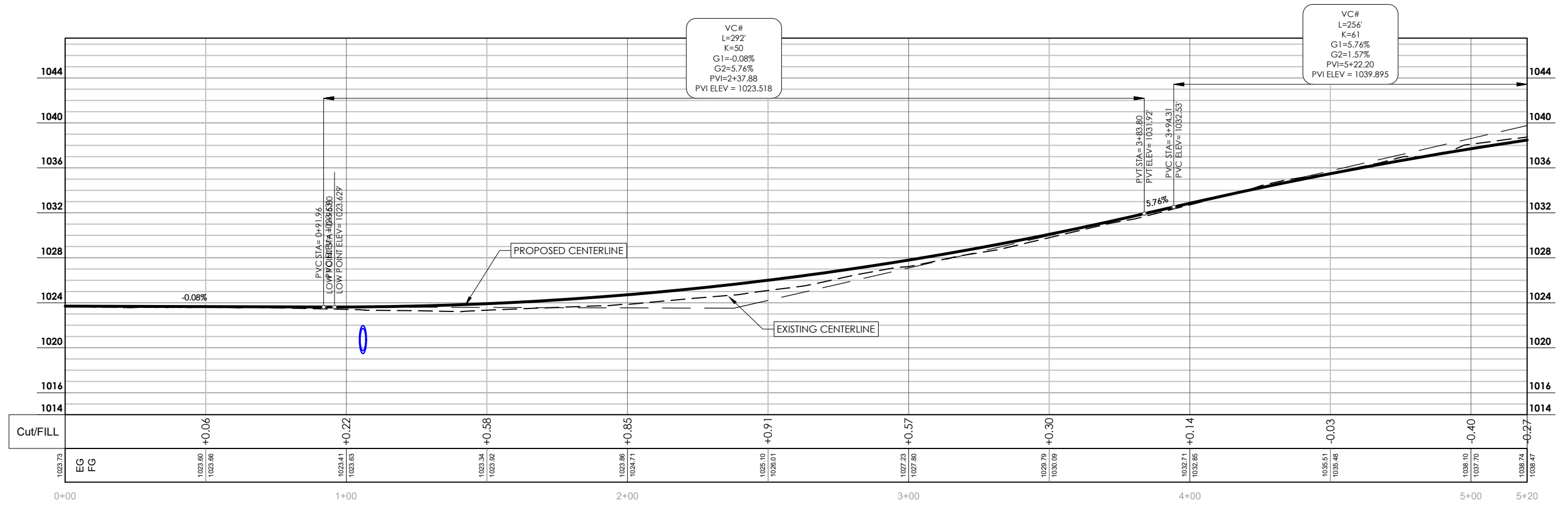
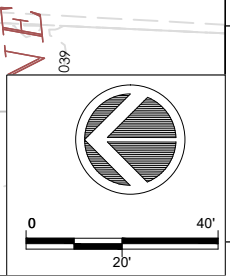
STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION

APPROVED  
11/30/94 DATE /S/ Rory L. Rhinesmith  
DATE CHIEF ROADWAY DEVELOPMENT ENGINEER  
FHWA



5

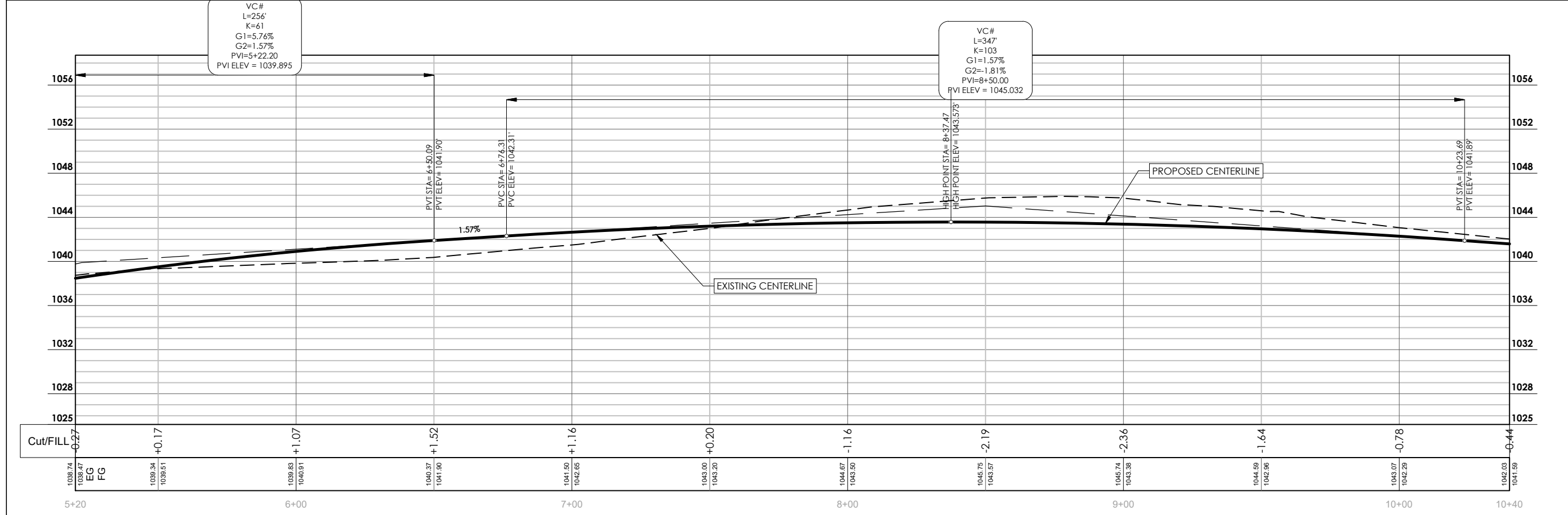
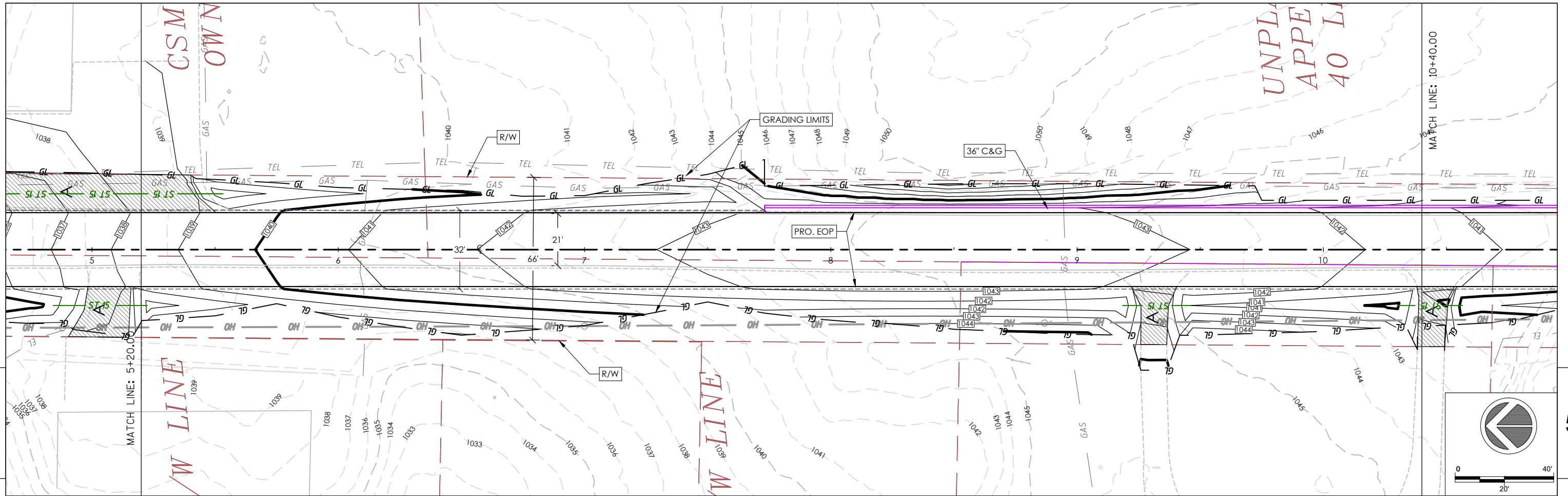
5



**DIGGERSHOTLINE**  
 Dial 811 or (800)242-8511  
 www.DiggersHotline.com

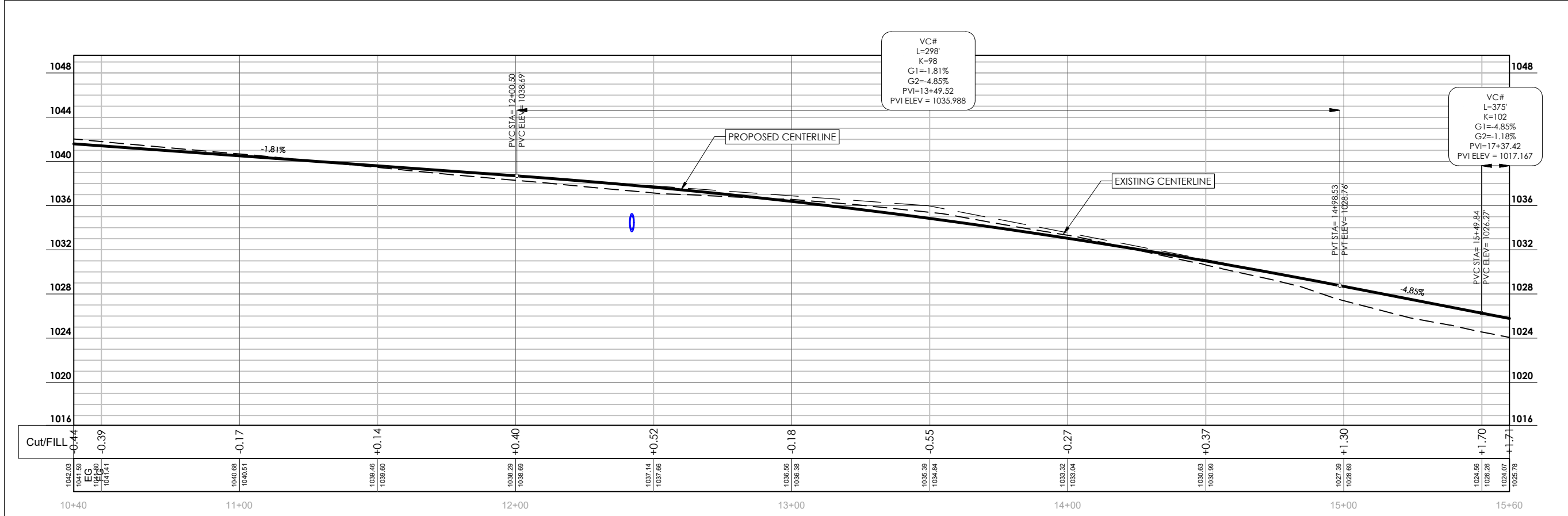
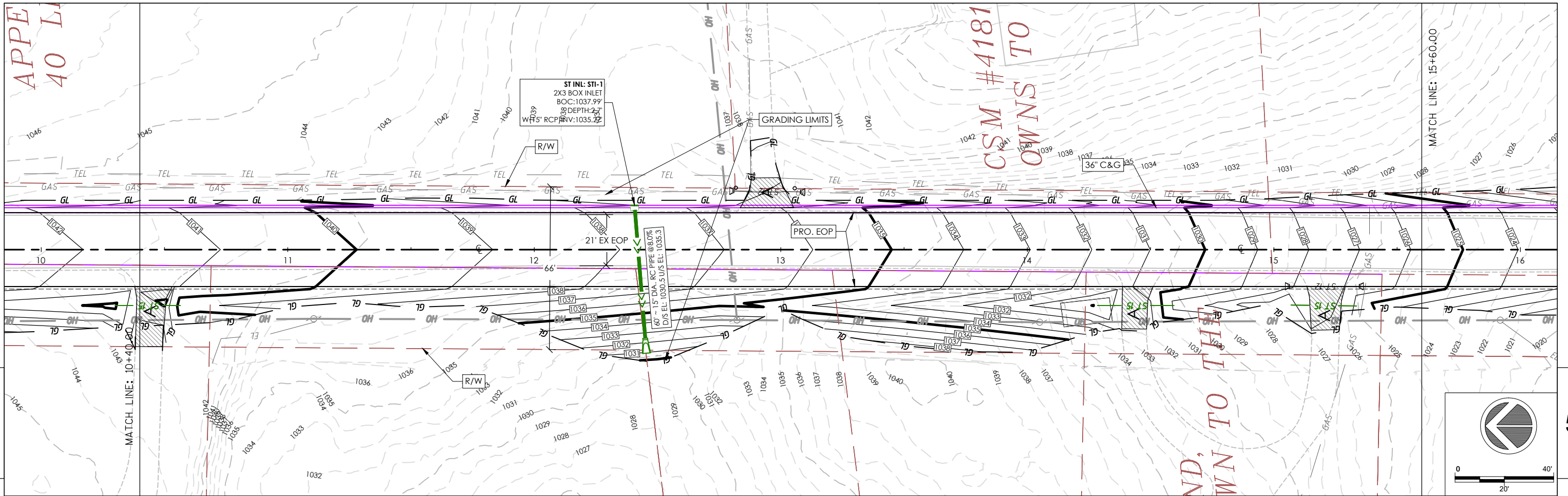
PROJECT NO: 18112/39508802306    HWY: ELLSWORTH RD    COUNTY: MONROE COUNTY    PLAN AND PROFILE: PLAN&PROFILE ELLSWORTH RD    SHEET **C5.0** **E**

FILE NAME: F:\Q2\2023\Q23189 ELLSWORTH RD T LA GRANGE\CAD\PLAN\_PROFILES.DWG    PLOT DATE: 2/12/2024 9:19 AM    PLOT BY: SSR    PLOT NAME:    PLOT SCALE: 1 IN:40 FT    WISDOT/CADD5 SHEET 44



**DIGGERSHOTLINE**  
 Dial 811 or (800)242-8511  
 www.DiggersHotline.com

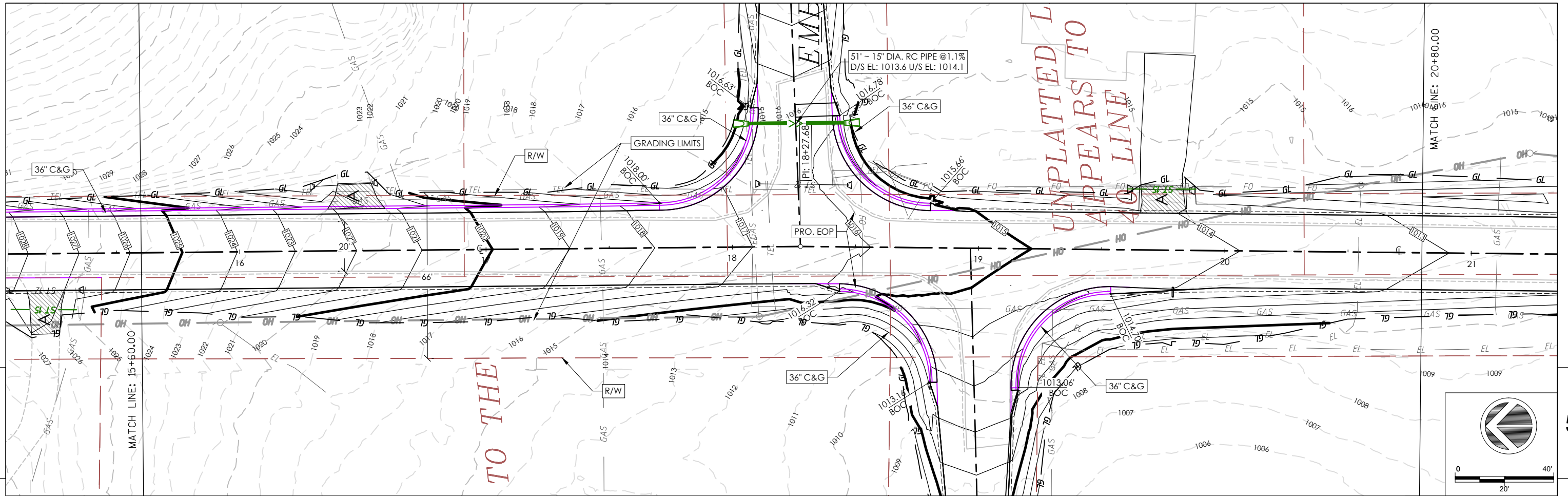
PROJECT NO: 18112/39508802306	HWY: ELLSWORTH RD	COUNTY: MONROE COUNTY	PLAN AND PROFILE: PLAN&PROFILE ELLSWORTH RD	SHEET <b>C5.1</b> <b>E</b>
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**DIGGERSHOTLINE**  
 Dial 811 or (800)242-8511  
 www.DiggersHotline.com

PROJECT NO: 18112/39508802306	HWY: ELLSWORTH RD	COUNTY: MONROE COUNTY	PLAN AND PROFILE: PLAN&PROFILE ELLSWORTH RD	SHEET <b>C5.2</b> <b>E</b>
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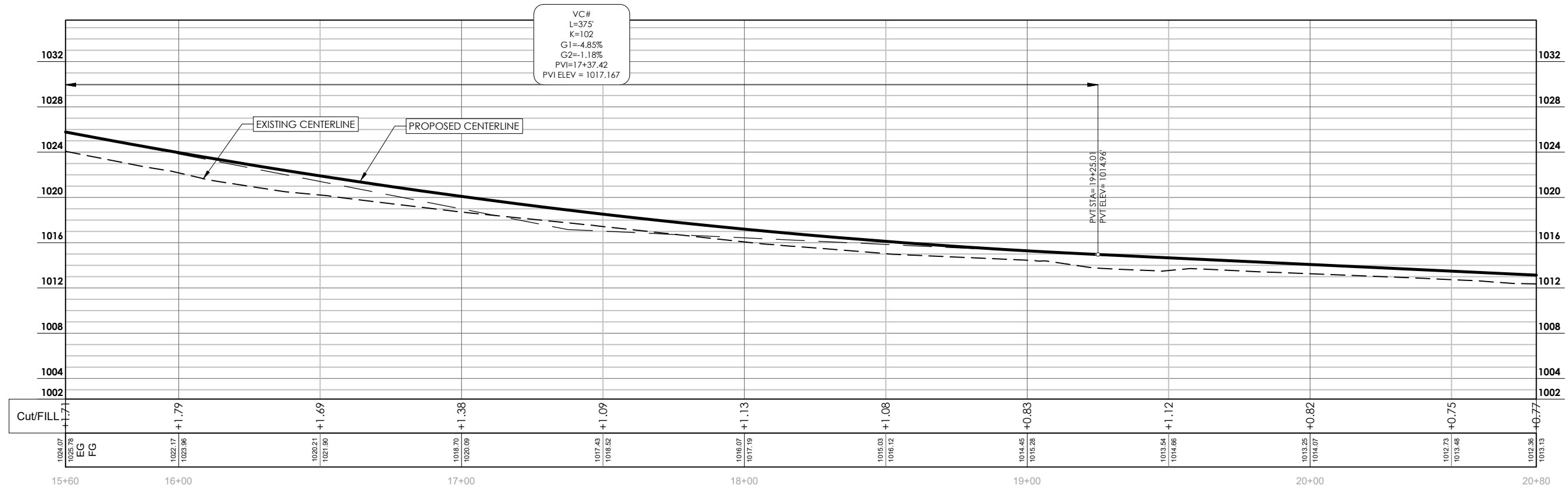




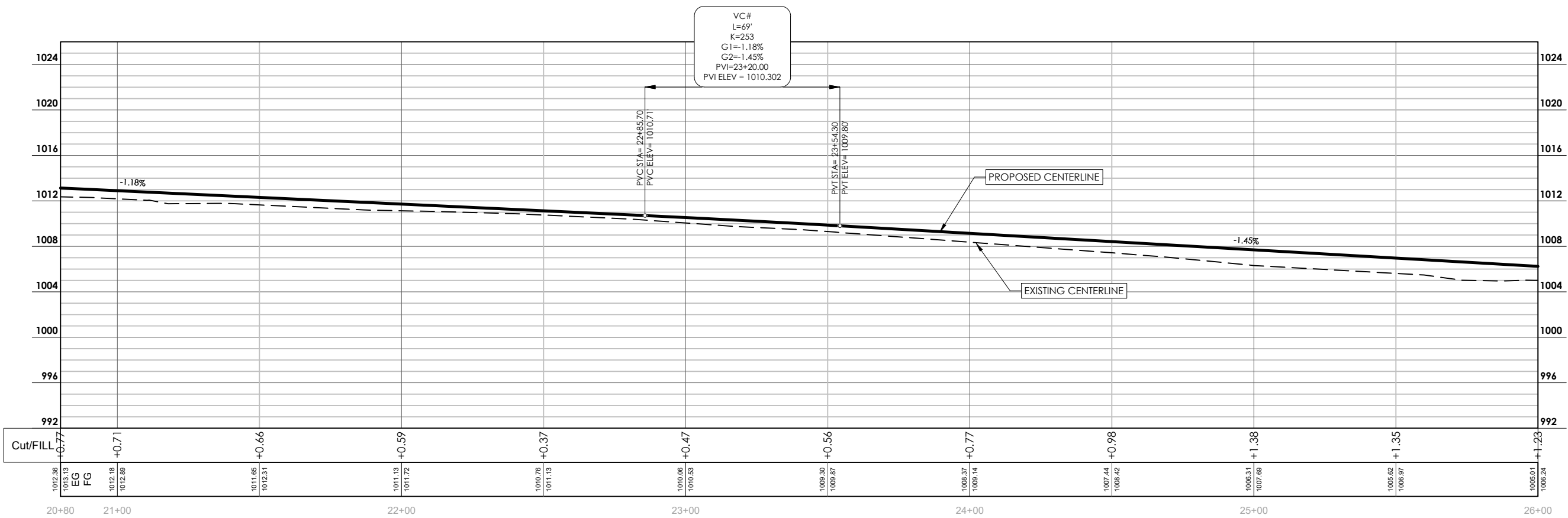
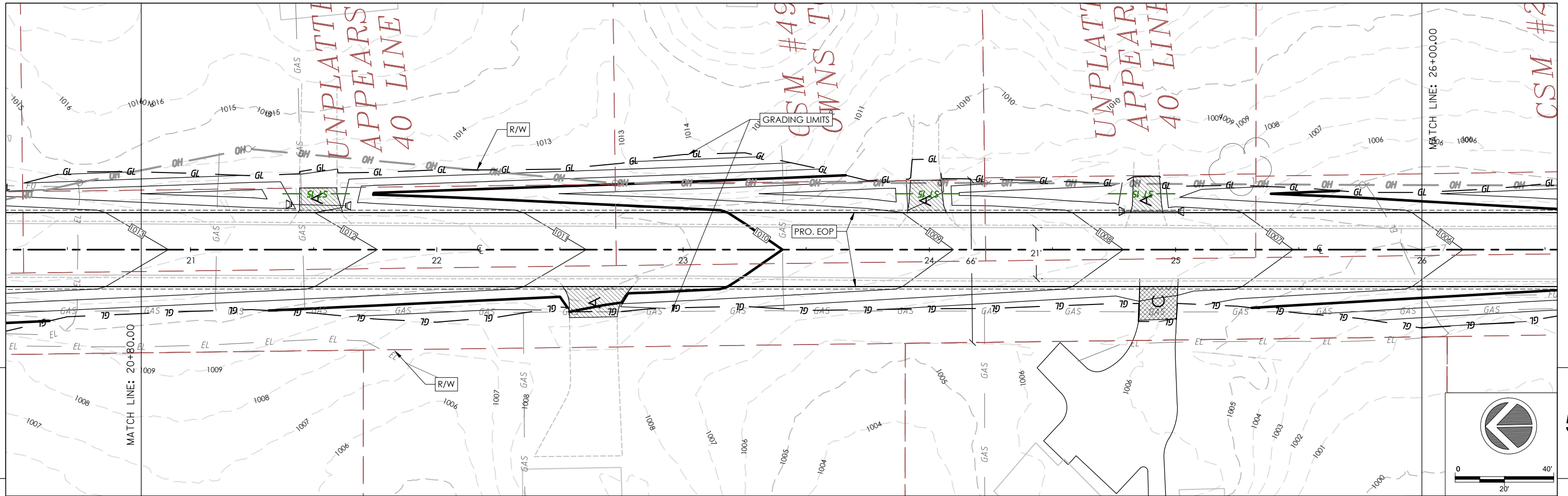
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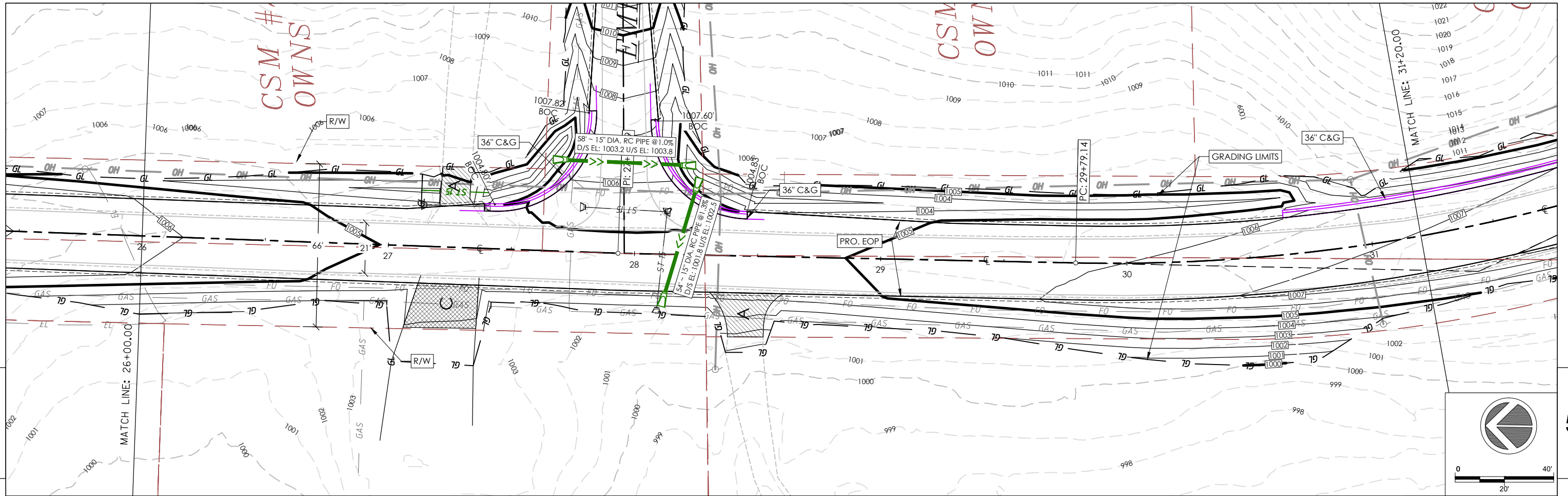
**DIGGERSHOTLINE**  
 Dial 811 or (800)242-8511  
 www.DiggersHotline.com



PROJECT NO: 18112/39508802306	HWY: ELLSWORTH RD	COUNTY: MONROE COUNTY	PLAN AND PROFILE: PLAN&PROFILE ELLSWORTH RD	SHEET <b>C5.3</b> <b>E</b>
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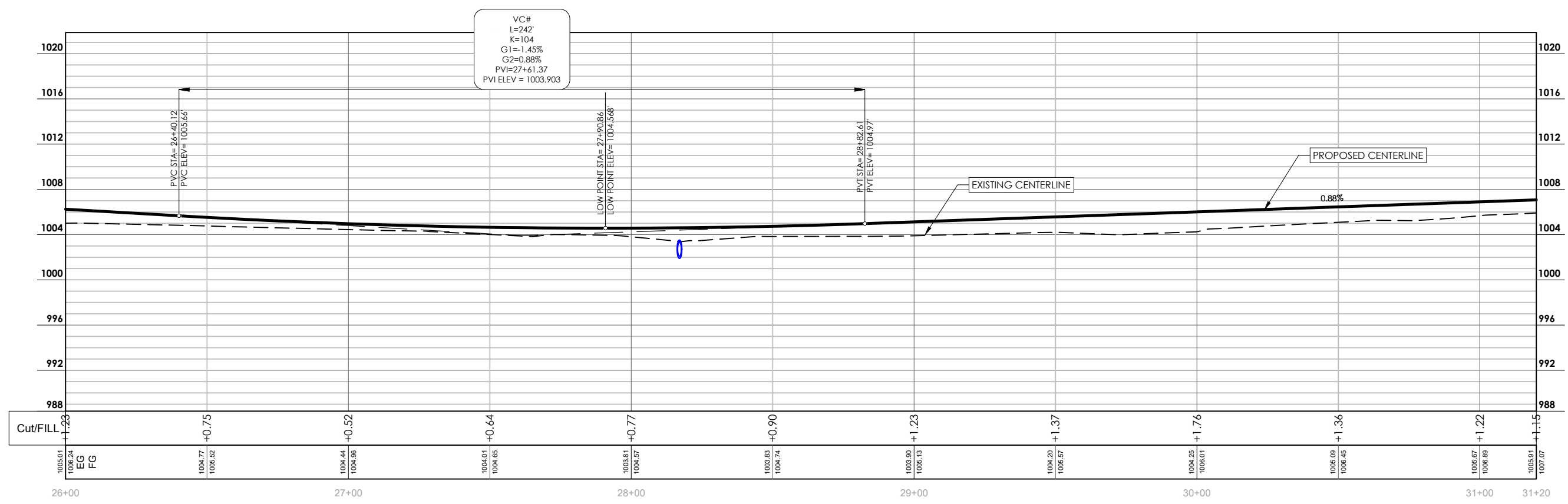
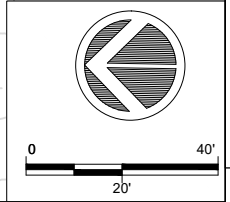


**DIGGERSHOTLINE**  
 Dial 811 or (800)242-8511  
 www.DiggersHotline.com



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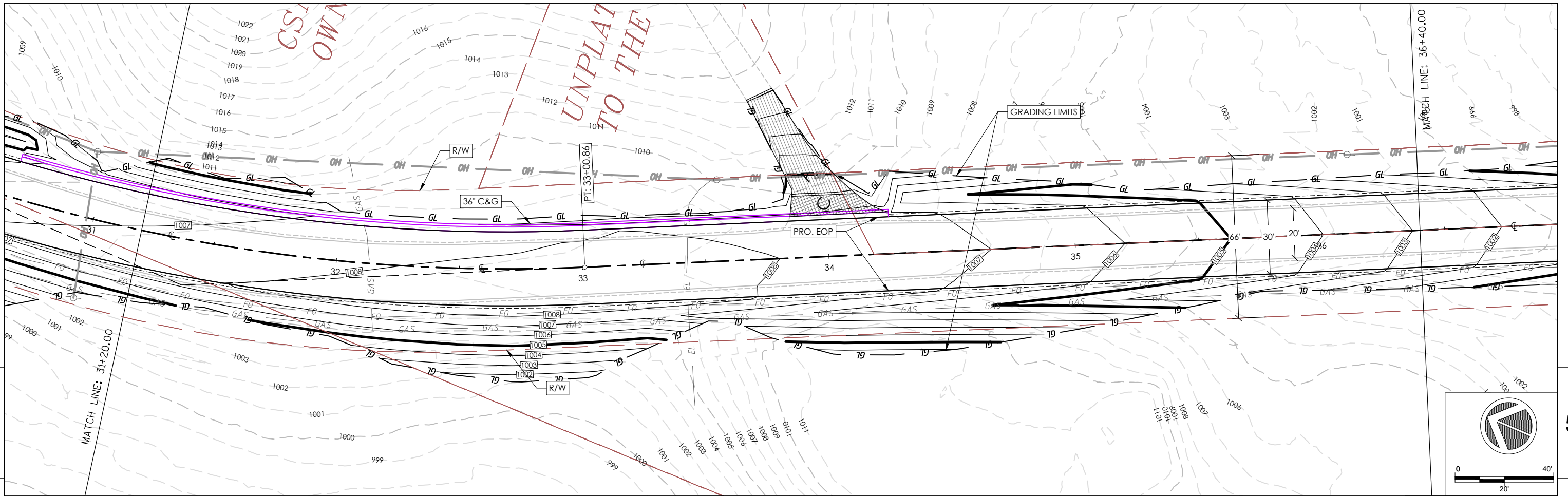
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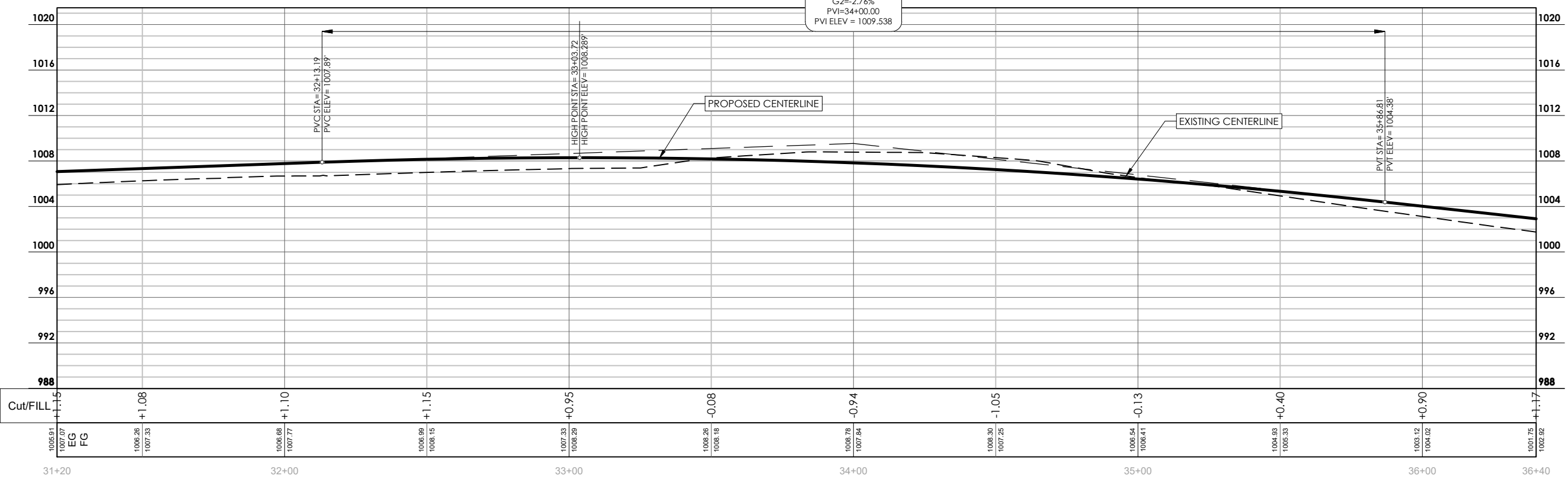
**DIGGERSHOTLINE**  
 Dial 811 or (800)242-8511  
 www.DiggersHotline.com

PROJECT NO: 18112/39508802306    HWY: ELLSWORTH RD    COUNTY: MONROE COUNTY    PLAN AND PROFILE: PLAN&PROFILE ELLSWORTH RD    SHEET **C5.5** **E**

FILE NAME: F:\Q2\2023\Q23189 ELLSWORTH RD T LA GRANGE\CAD\PLAN\_PROFILES.DWG    PLOT DATE: 2/12/2024 9:20 AM    PLOT BY: SSR    PLOT NAME:    PLOT SCALE: 1 IN:40 FT    WISDOT/CADD SHEET 44

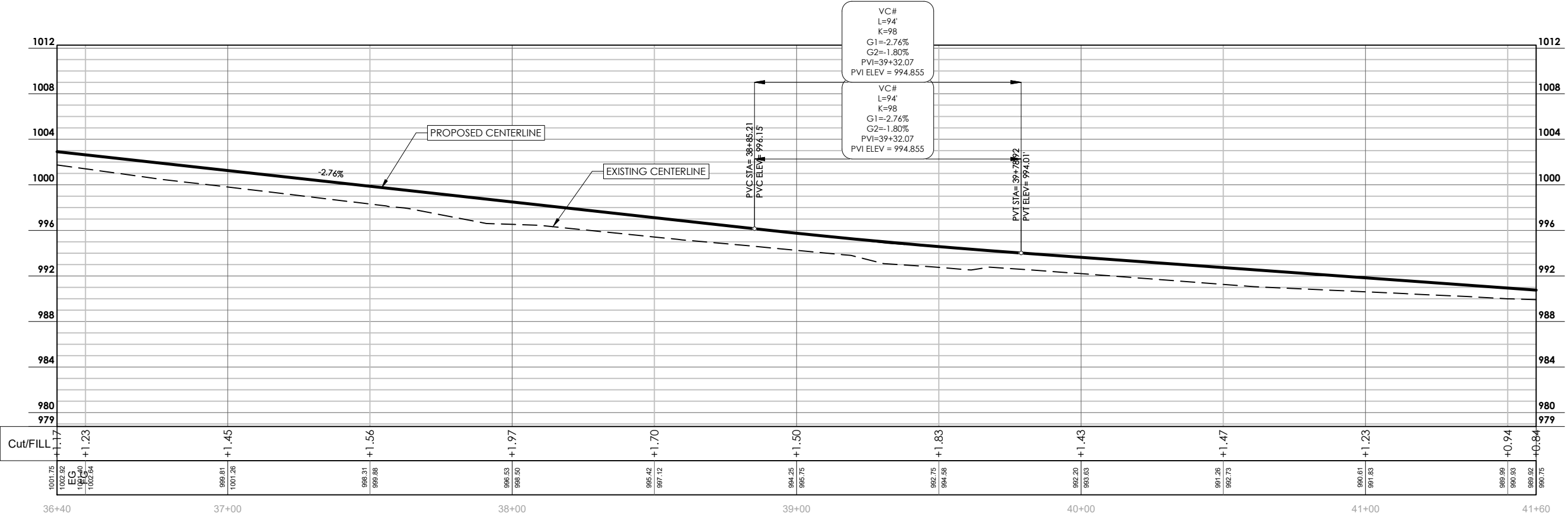
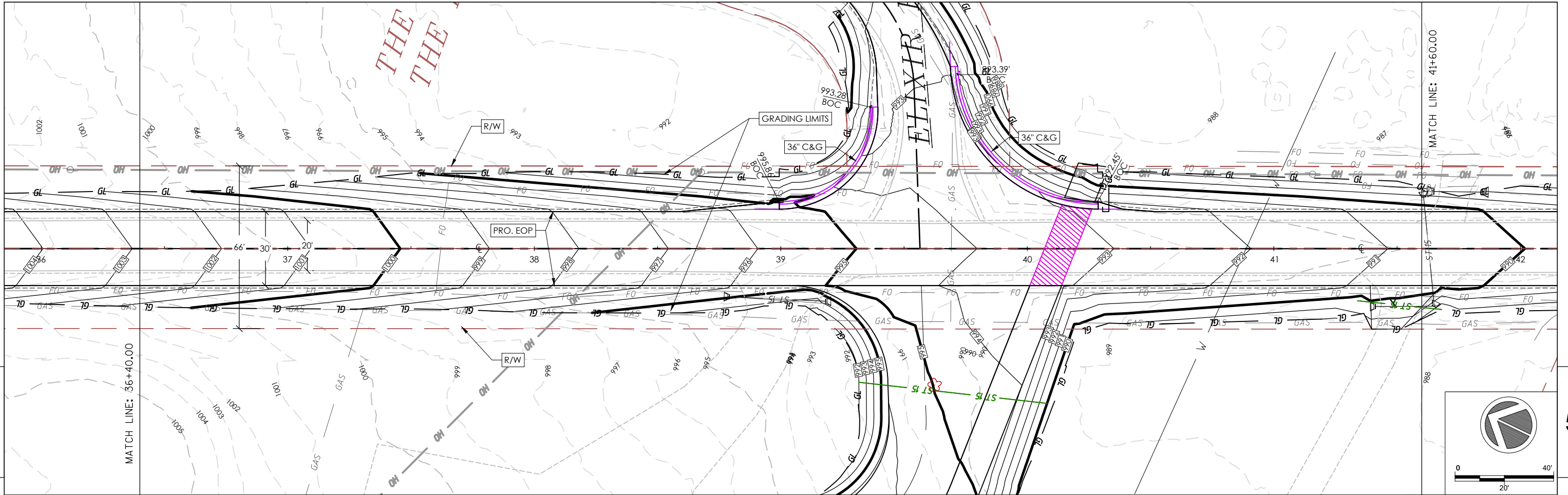


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K=103  
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G2=-2.76%  
PVI=34+00.00  
PVI ELEV = 1009.538

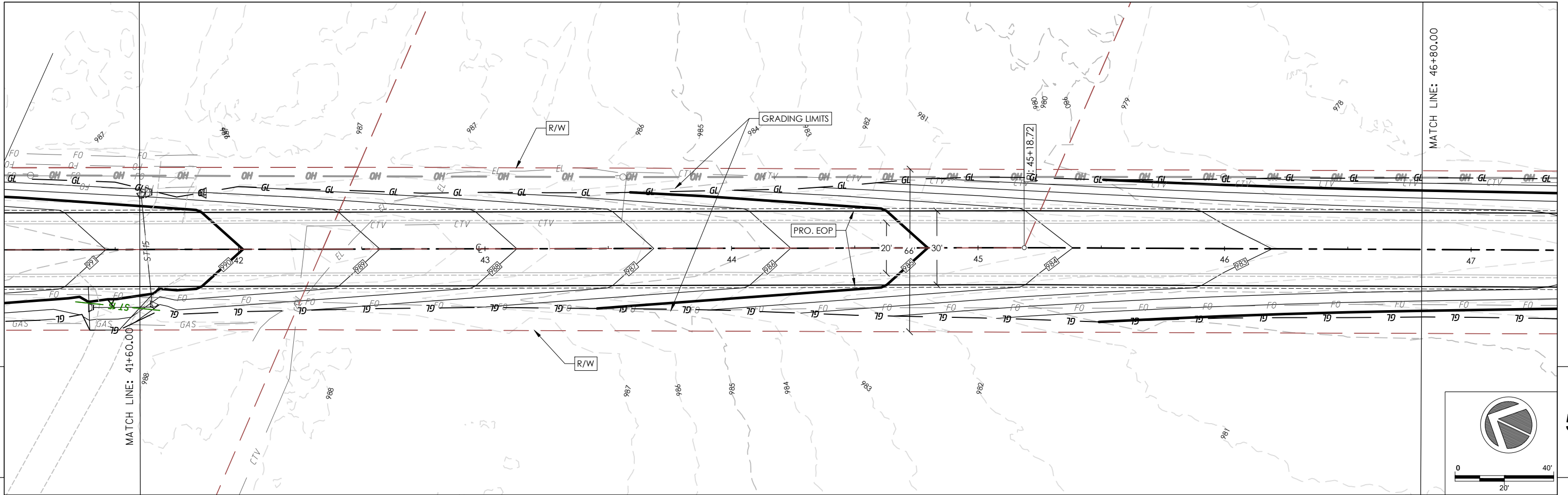


**DIGGERSHOTLINE**  
 Dial 811 or (800)242-8511  
 www.DiggersHotline.com

PROJECT NO: 18112/39508802306	HWY: ELLSWORTH RD	COUNTY: MONROE COUNTY	PLAN AND PROFILE: PLAN&PROFILE ELLSWORTH RD	SHEET <b>C5.6</b>	<b>E</b>
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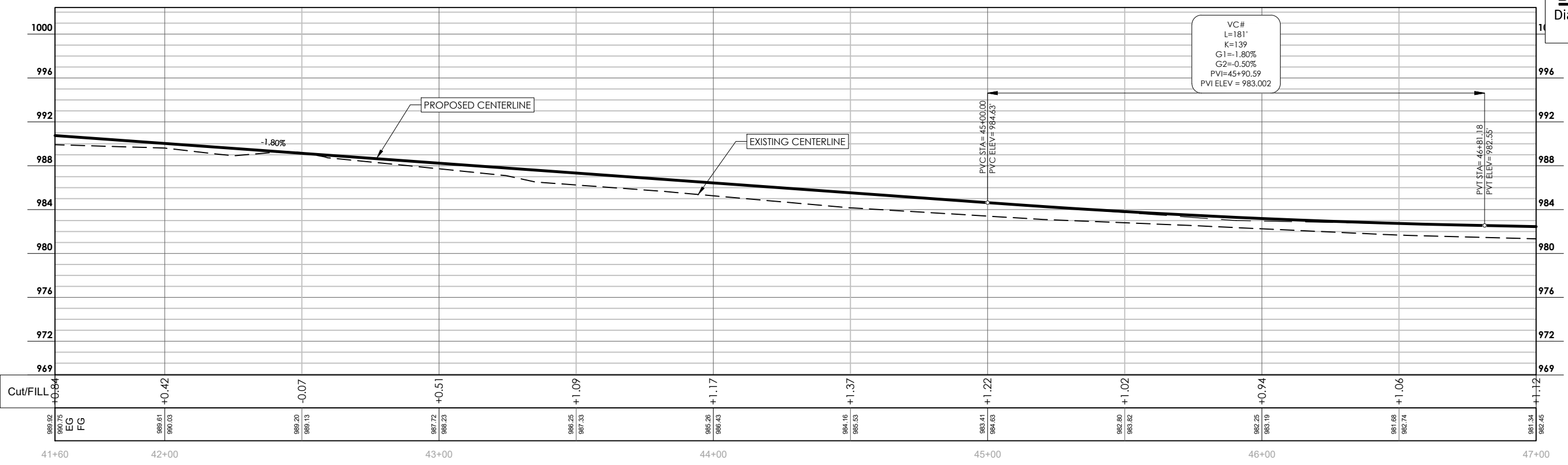
**DIGGERSHOTLINE**  
 Dial 811 or (800)242-8511  
 www.DiggersHotline.com



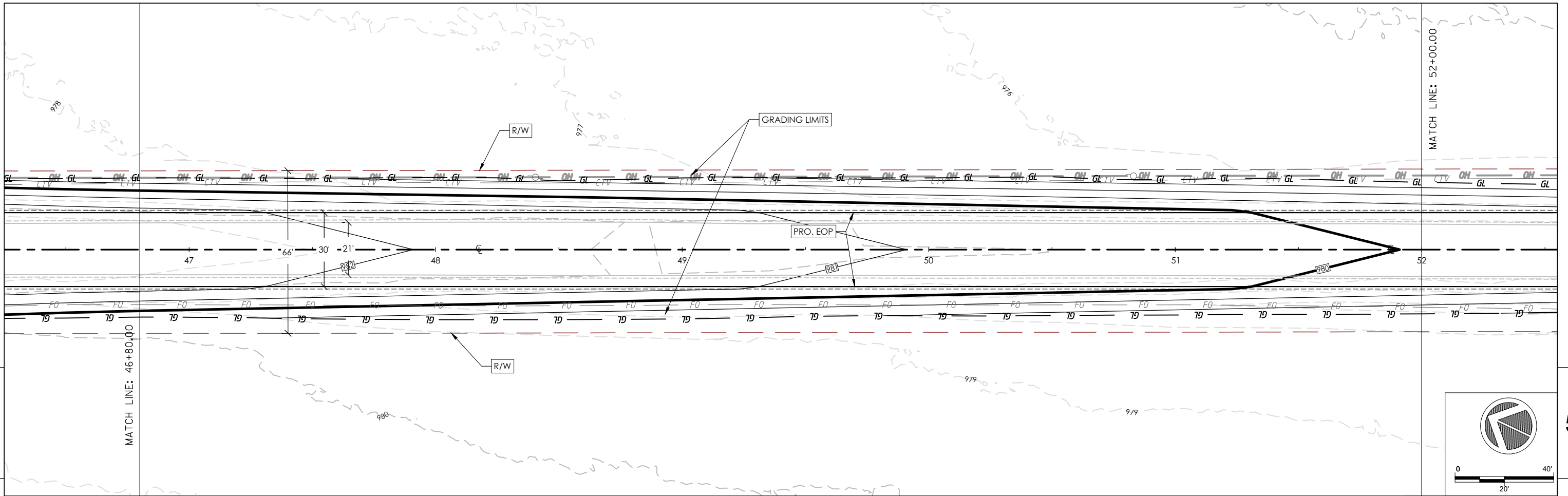
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**DIGGERSHOTLINE**  
 Dial 811 or (800)242-8511  
 www.DiggersHotline.com

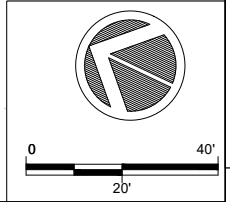


PROJECT NO: 18112/39508802306	HWY: ELLSWORTH RD	COUNTY: MONROE COUNTY	PLAN AND PROFILE:	PLAN&PROFILE ELLSWORTH RD	SHEET	<b>C5.8</b>	<b>E</b>
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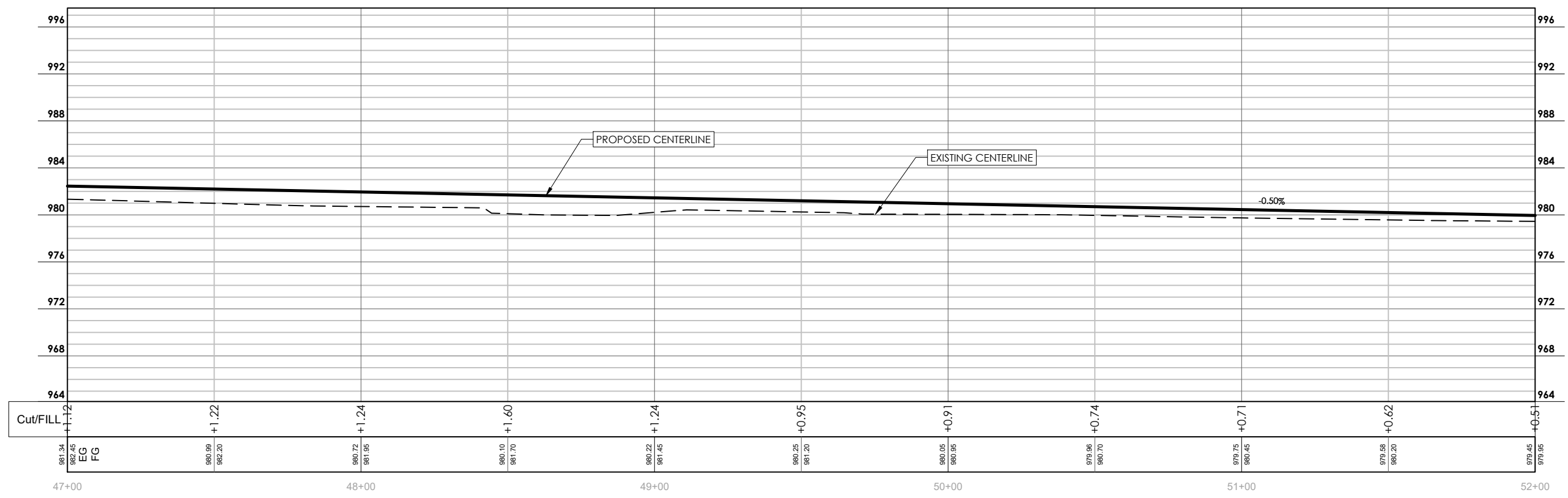


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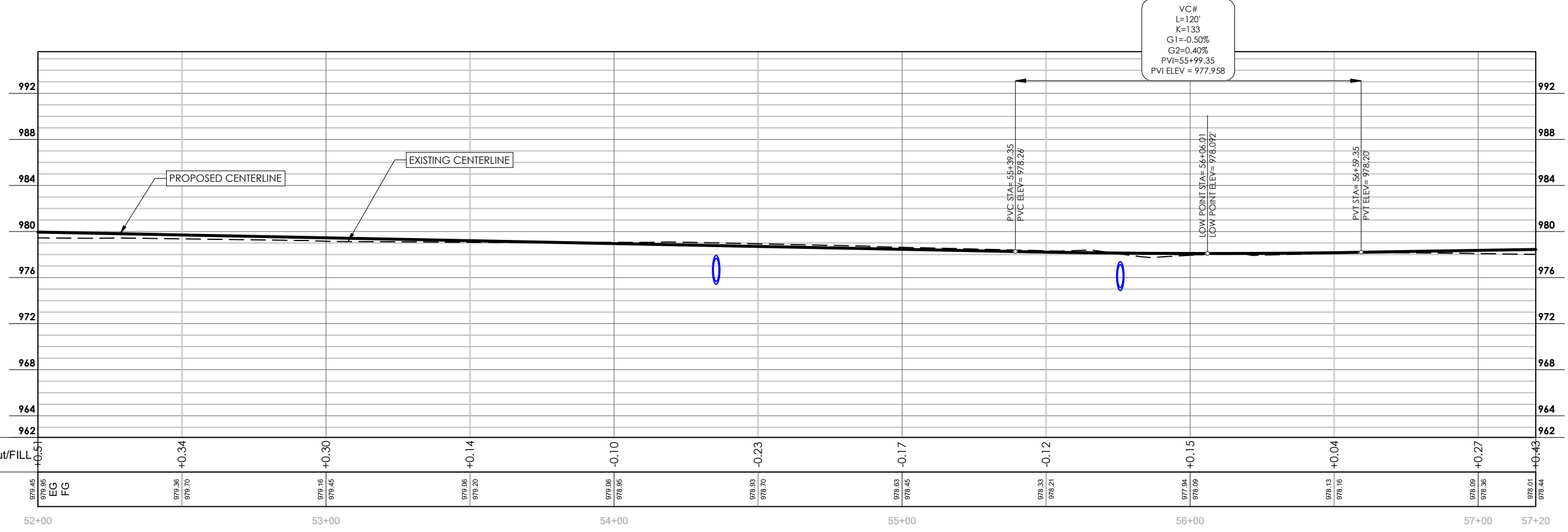
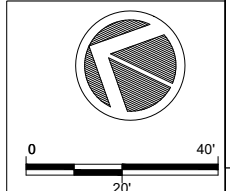
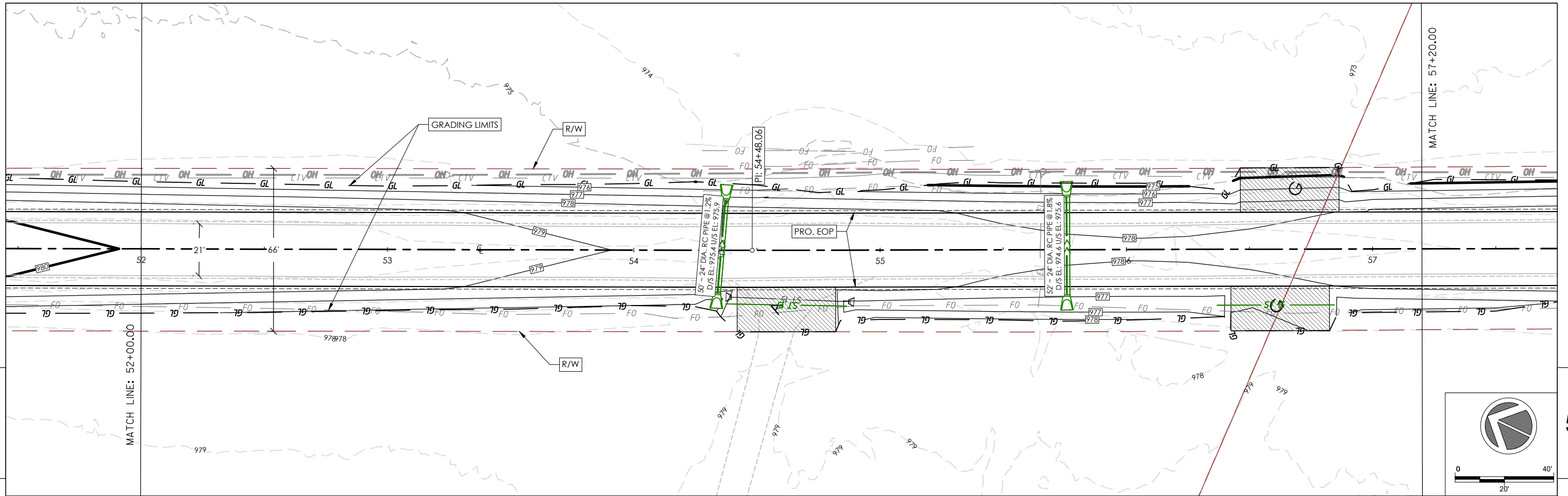


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 www.DiggersHotline.com



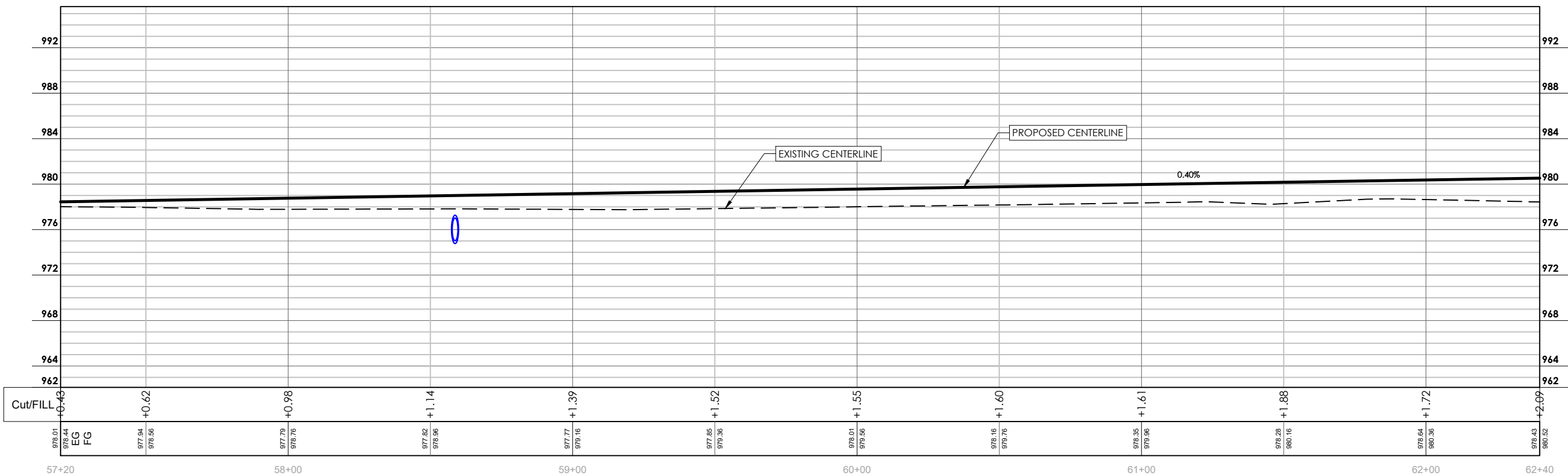
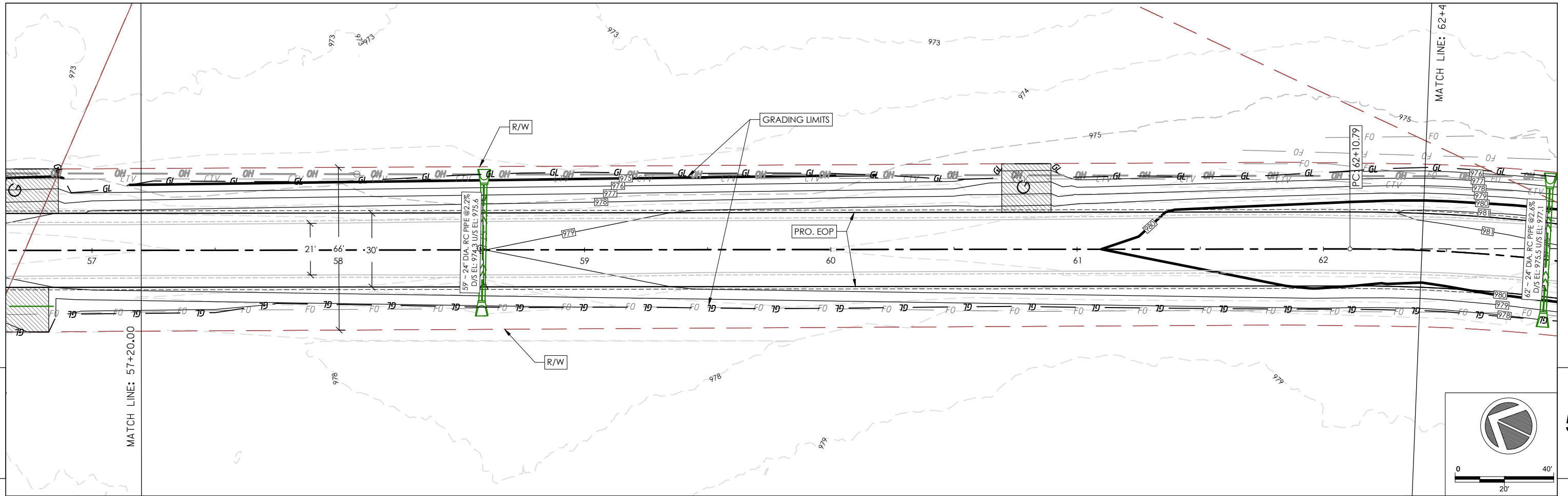
PROJECT NO: 18112/39508802306    HWY: ELLSWORTH RD    COUNTY: MONROE COUNTY    PLAN AND PROFILE: PLAN&PROFILE ELLSWORTH RD    SHEET **C5.9**    E

FILE NAME: F:\Q2\2023\Q23189 ELLSWORTH RD T LA GRANGE\CAD\PLAN\_PROFILES.DWG    PLOT DATE: 2/12/2024 9:20 AM    PLOT BY: SSR    PLOT NAME:    PLOT SCALE: 1 IN:40 FT    WISDOT/CADD SHEET 44

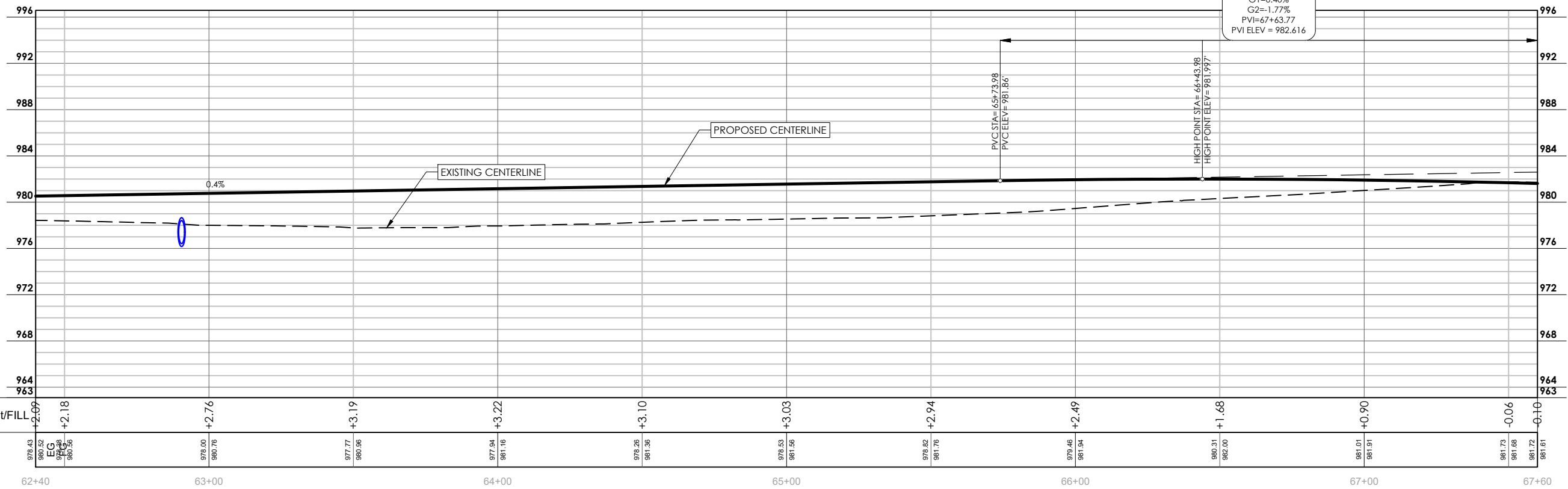
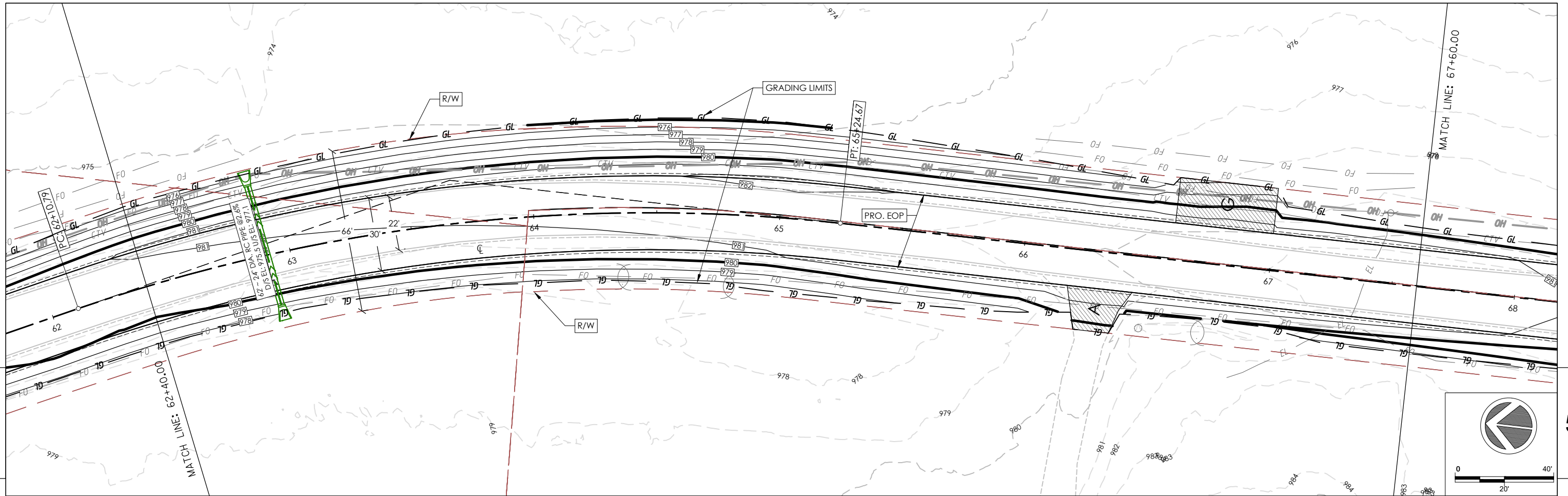


**DIGGERSHOTLINE**  
 Dial 811 or (800)242-8511  
 www.DiggersHotline.com

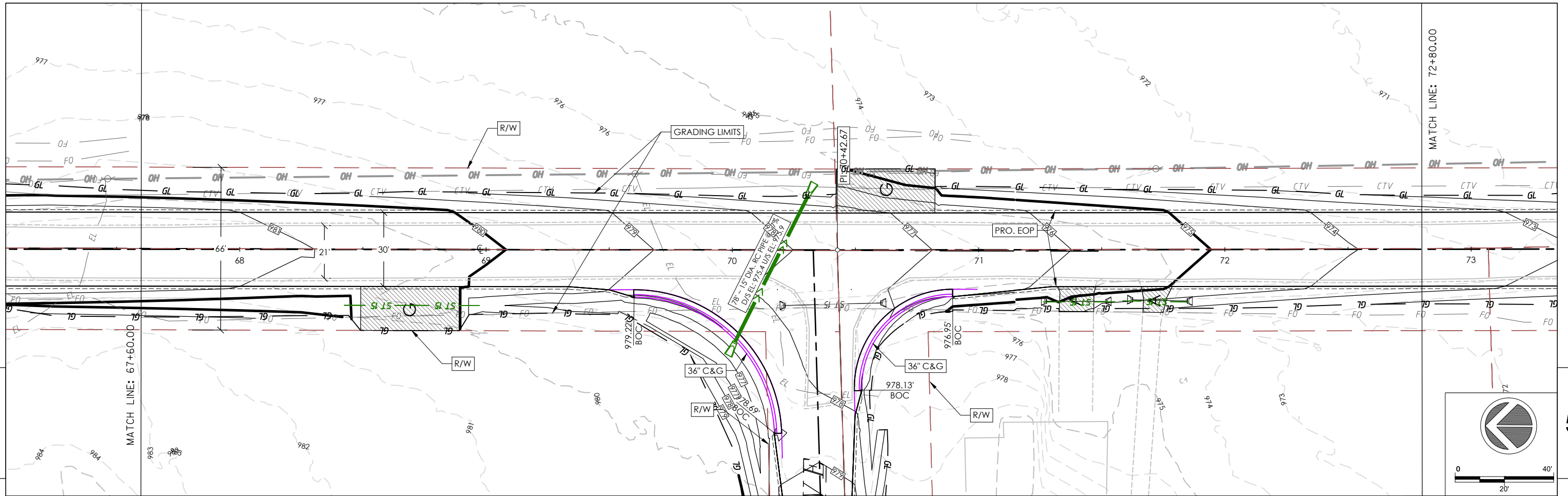




**DIGGERSHOTLINE**  
 Dial 811 or (800)242-8511  
 www.DiggersHotline.com

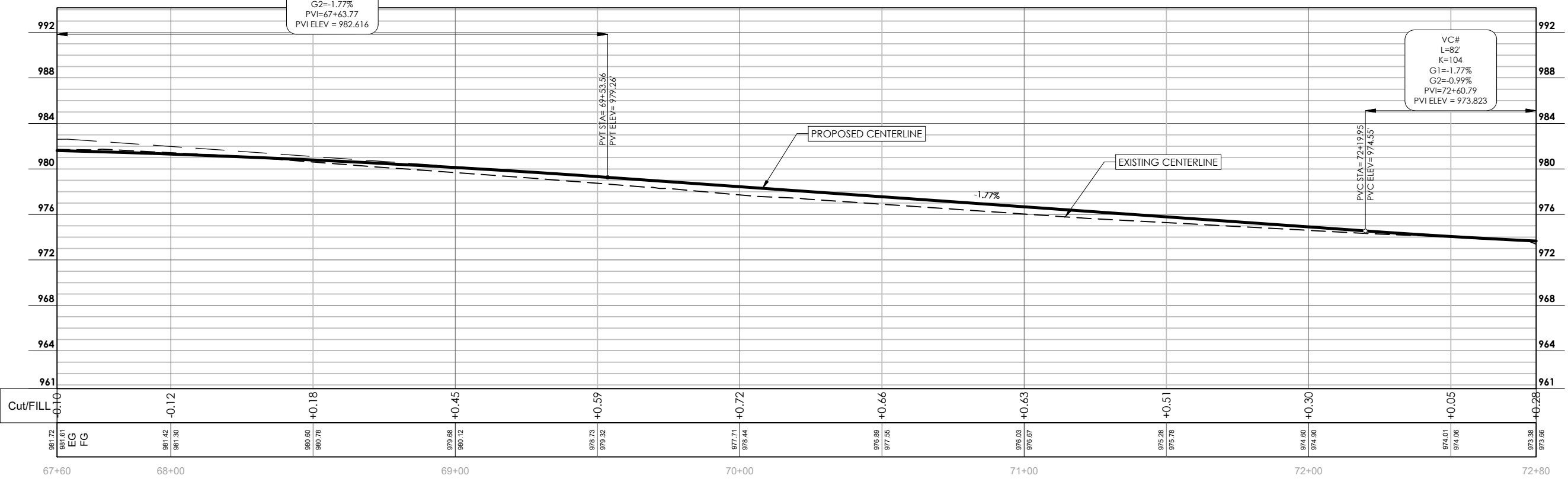


**DIGGERSHOTLINE**  
 Dial 811 or (800)242-8511  
 www.DiggersHotline.com

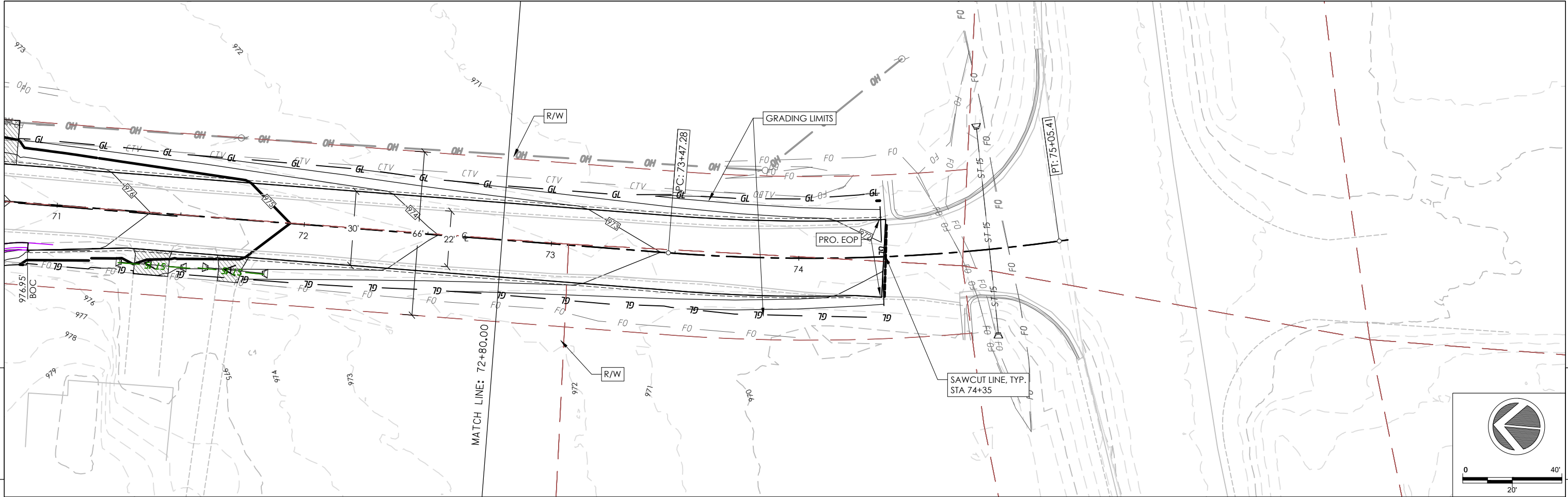


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G2=-1.77%  
PVI=67+63.77  
PVI ELEV = 982.616

VC#  
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K=104  
G1=-1.77%  
G2=-0.99%  
PVI=72+60.79  
PVI ELEV = 973.823

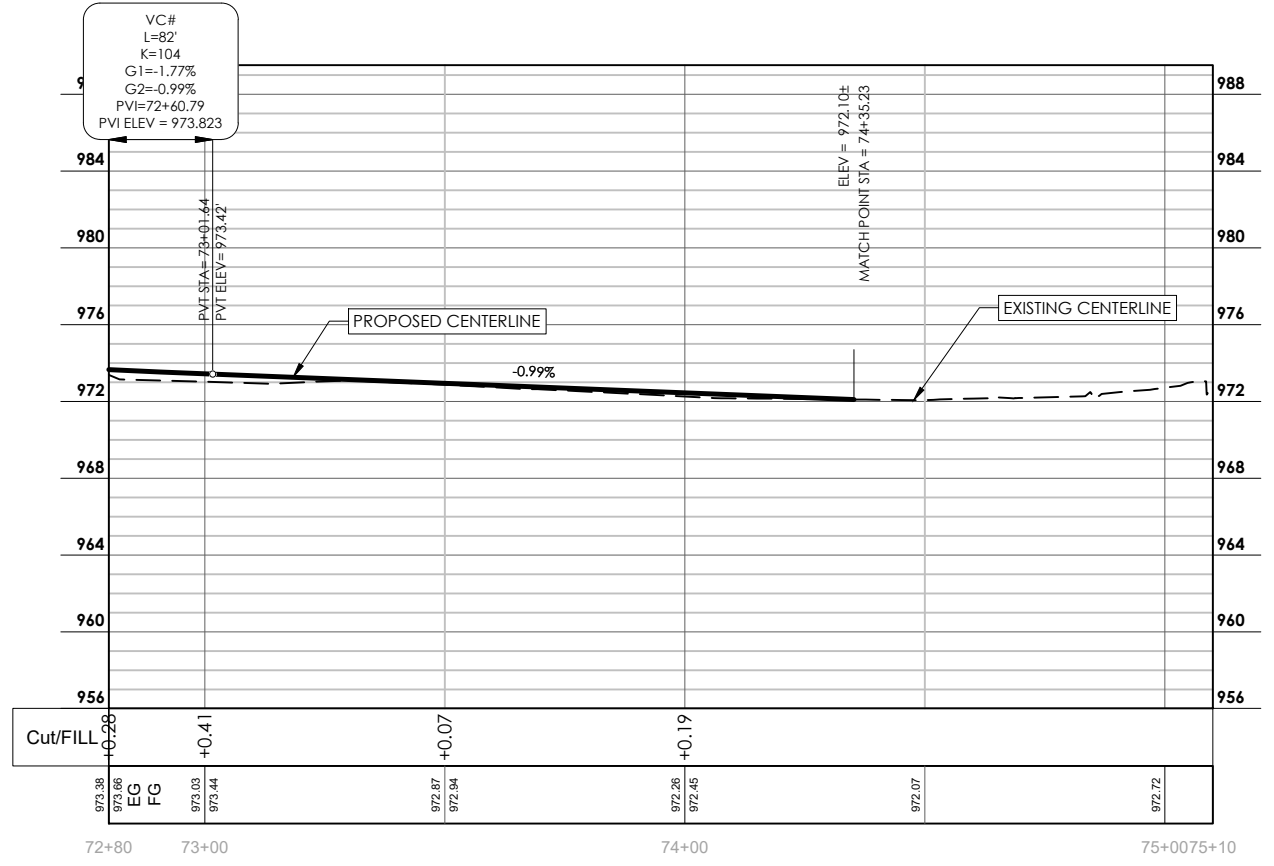
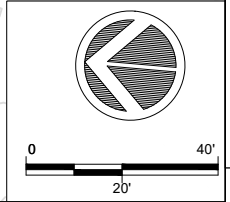


**DIGGERSHOTLINE**  
Dial 811 or (800)242-8511  
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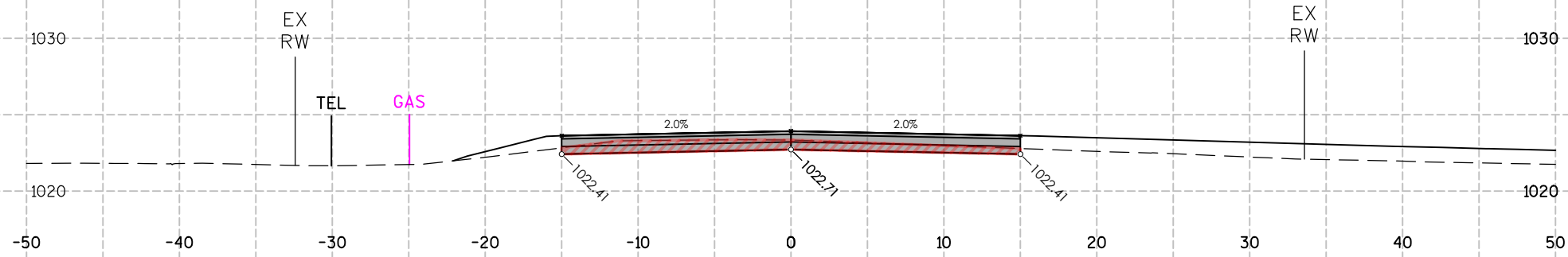


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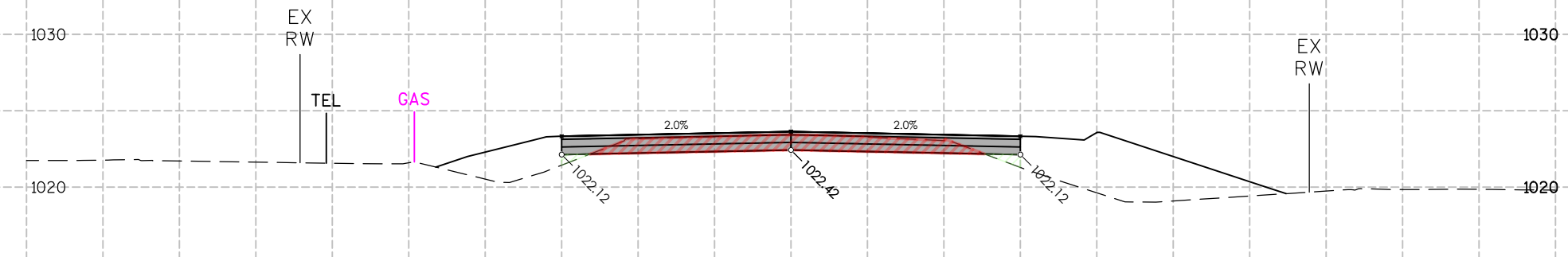
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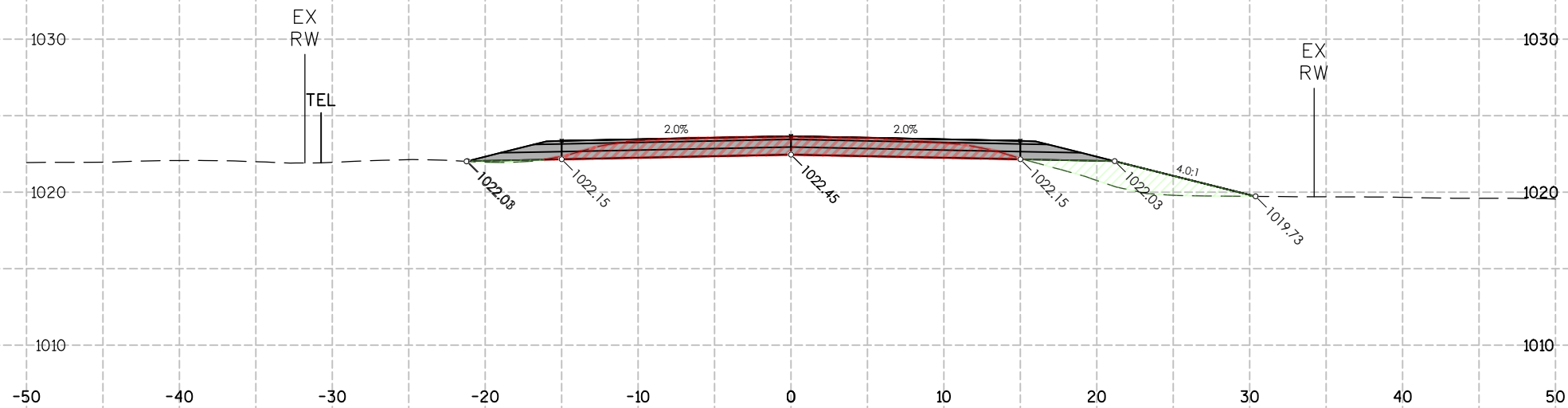
**DIGGERSHOTLINE**  
 Dial 811 or (800)242-8511  
 www.DiggersHotline.com



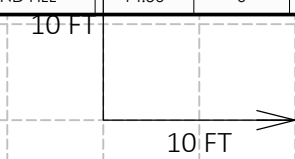
CUT/FILL STA:1+50.00			
ITEM	AREA (SF)	VOL (CY)	CUM. VOL. (CY)
GROUND REMOVED	18.07	37	86
GROUND FILL	0.00	1	16



CUT/FILL STA:1+00.00			
ITEM	AREA (SF)	VOL (CY)	CUM. VOL. (CY)
GROUND REMOVED	22.21	48	48
GROUND FILL	1.62	15	15



CUT/FILL STA:0+50.00			
ITEM	AREA (SF)	VOL (CY)	CUM. VOL. (CY)
GROUND REMOVED	30.09	0	0
GROUND FILL	14.56	0	0

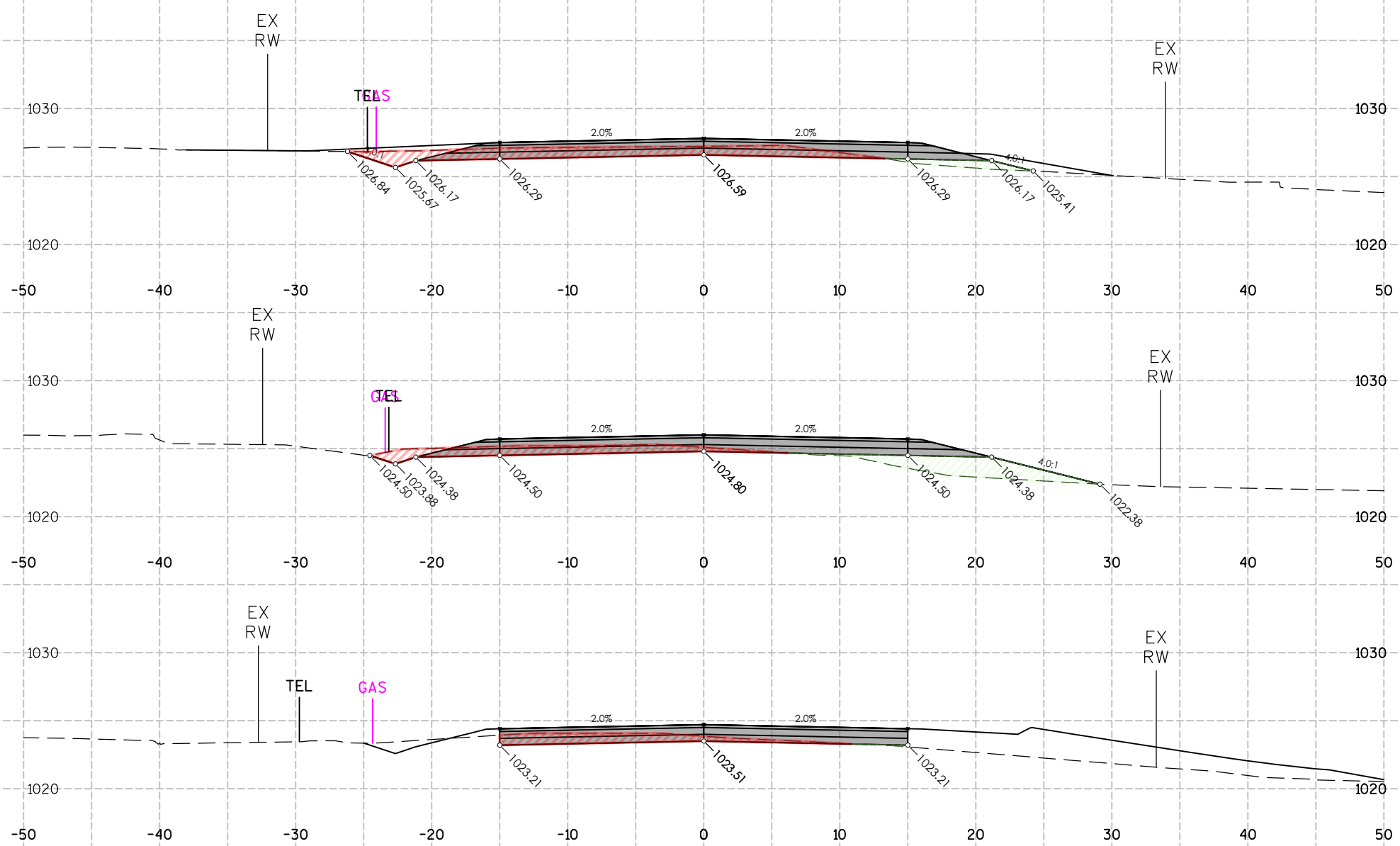


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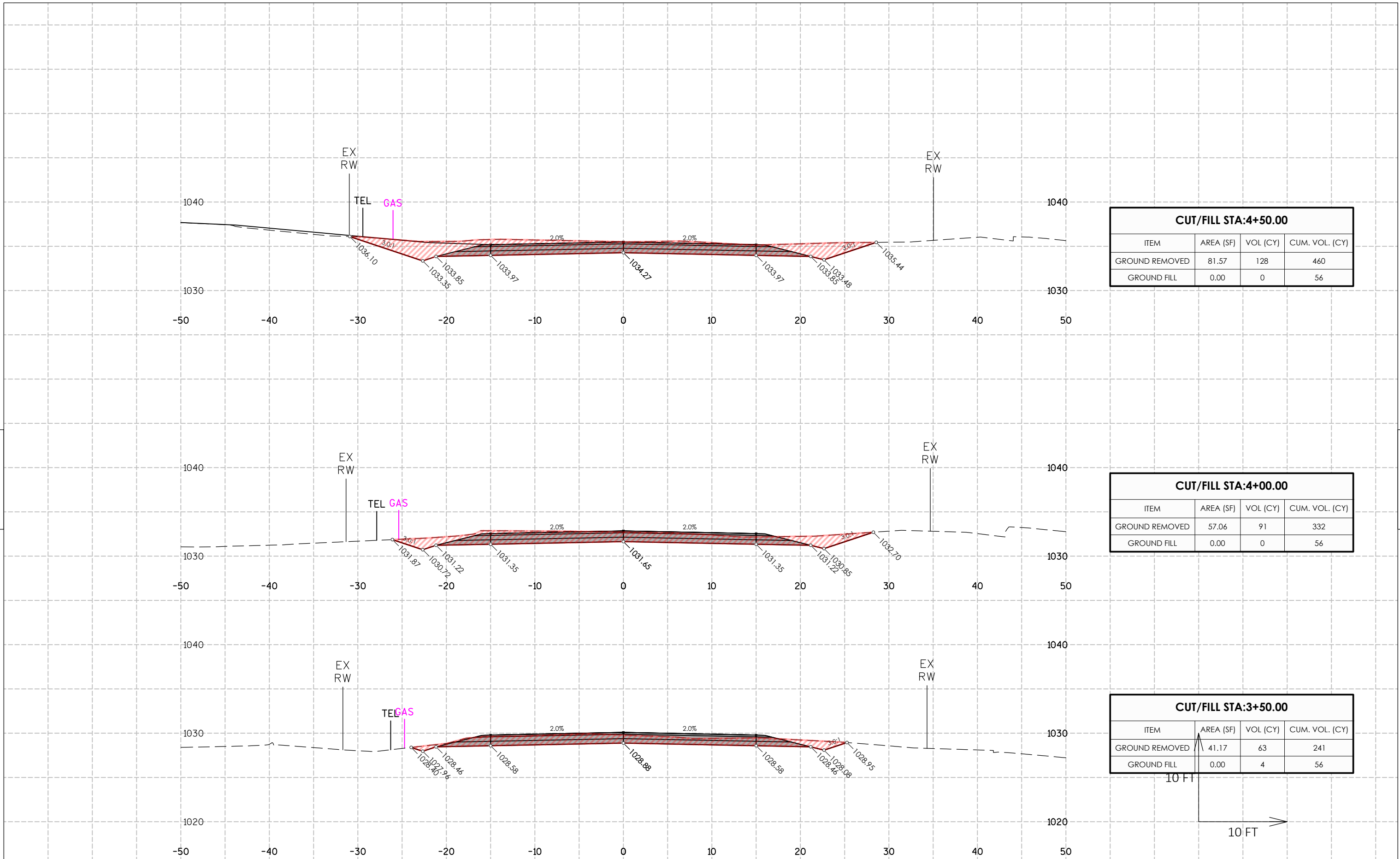
6



CUT/FILL STA:3+00.00			
ITEM	AREA (SF)	VOL (CY)	CUM. VOL. (CY)
GROUND REMOVED	26.34	39	179
GROUND FILL	4.02	19	52

CUT/FILL STA:2+50.00			
ITEM	AREA (SF)	VOL (CY)	CUM. VOL. (CY)
GROUND REMOVED	15.72	26	140
GROUND FILL	17.02	16	33

CUT/FILL STA:2+00.00			
ITEM	AREA (SF)	VOL (CY)	CUM. VOL. (CY)
GROUND REMOVED	12.19	28	114
GROUND FILL	0.20	0	17



**CUT/FILL STA:4+50.00**

ITEM	AREA (SF)	VOL (CY)	CUM. VOL. (CY)
GROUND REMOVED	81.57	128	460
GROUND FILL	0.00	0	56

**CUT/FILL STA:4+00.00**

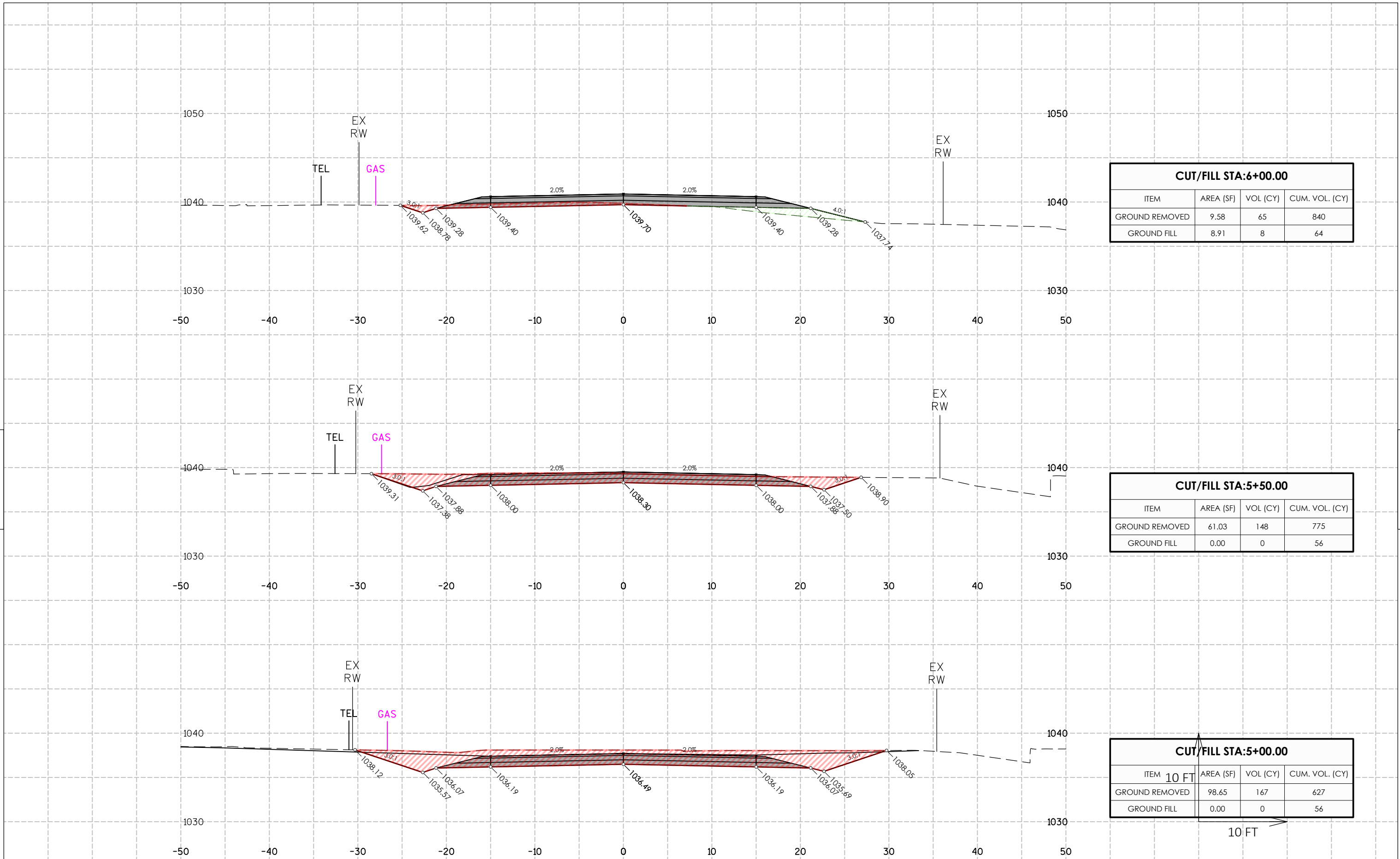
ITEM	AREA (SF)	VOL (CY)	CUM. VOL. (CY)
GROUND REMOVED	57.06	91	332
GROUND FILL	0.00	0	56

**CUT/FILL STA:3+50.00**

ITEM	AREA (SF)	VOL (CY)	CUM. VOL. (CY)
GROUND REMOVED	41.17	63	241
GROUND FILL	0.00	4	56

6

6



**CUT/FILL STA:6+00.00**

ITEM	AREA (SF)	VOL (CY)	CUM. VOL. (CY)
GROUND REMOVED	9.58	65	840
GROUND FILL	8.91	8	64

**CUT/FILL STA:5+50.00**

ITEM	AREA (SF)	VOL (CY)	CUM. VOL. (CY)
GROUND REMOVED	61.03	148	775
GROUND FILL	0.00	0	56

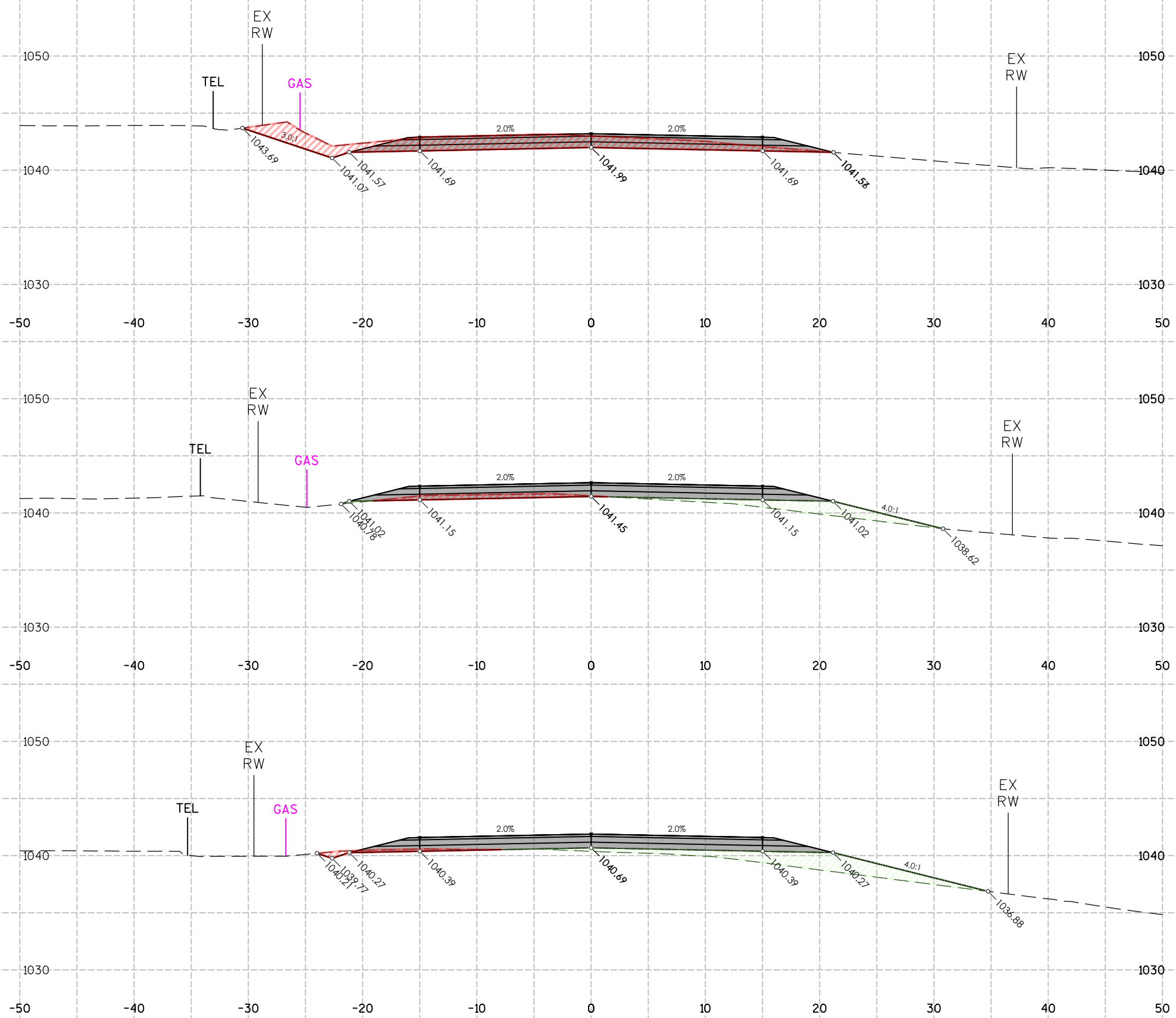
**CUT/FILL STA:5+00.00**

ITEM	10 FT AREA (SF)	VOL (CY)	CUM. VOL. (CY)
GROUND REMOVED	98.65	167	627
GROUND FILL	0.00	0	56

6

6





**CUT/FILL STA:7+50.00**

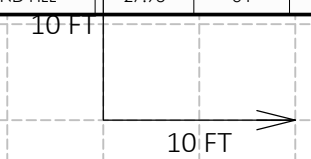
ITEM	AREA (SF)	VOL (CY)	CUM. VOL. (CY)
GROUND REMOVED	46.72	48	908
GROUND FILL	0.00	14	153

**CUT/FILL STA:7+00.00**

ITEM	AREA (SF)	VOL (CY)	CUM. VOL. (CY)
GROUND REMOVED	5.38	8	859
GROUND FILL	15.66	40	139

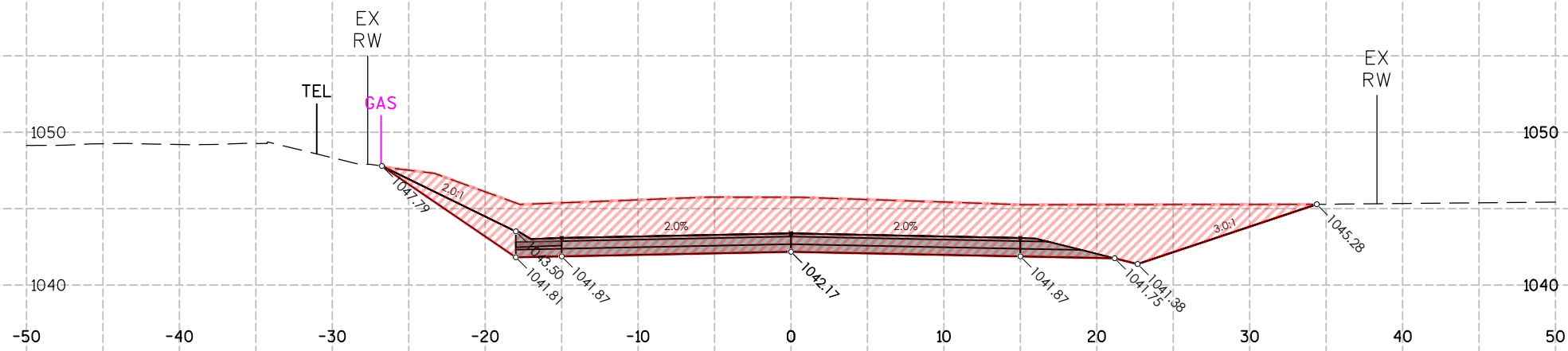
**CUT/FILL STA:6+50.00**

ITEM	AREA (SF)	VOL (CY)	CUM. VOL. (CY)
GROUND REMOVED	2.72	11	852
GROUND FILL	27.98	34	98

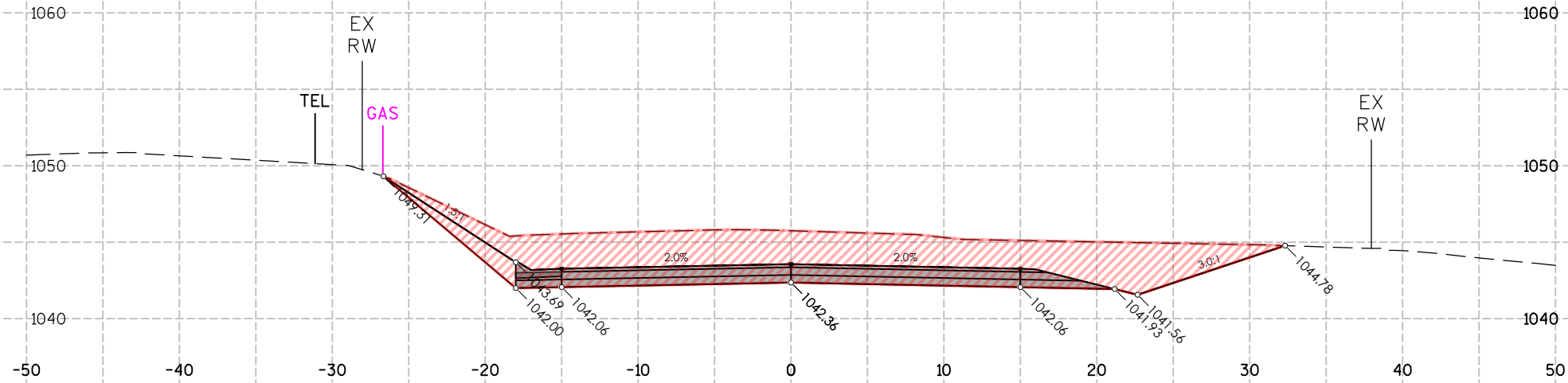


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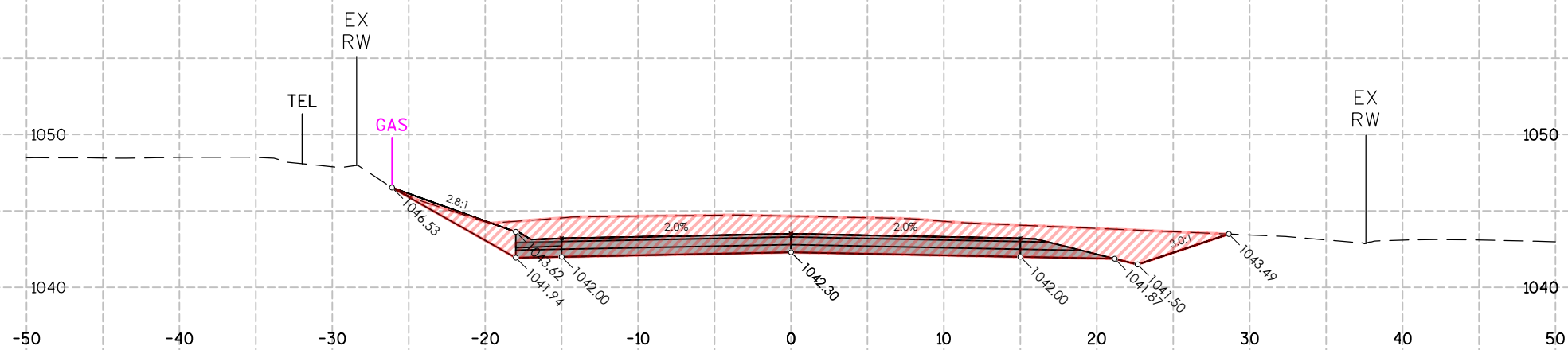
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CUT/FILL STA:9+00.00			
ITEM	AREA (SF)	VOL (CY)	CUM. VOL. (CY)
GROUND REMOVED	184.03	324	1,629
GROUND FILL	0.00	0	153



CUT/FILL STA:8+50.00			
ITEM	AREA (SF)	VOL (CY)	CUM. VOL. (CY)
GROUND REMOVED	166.00	254	1,305
GROUND FILL	0.00	0	153



CUT/FILL STA:8+00.00			
ITEM	AREA (SF)	VOL (CY)	CUM. VOL. (CY)
GROUND REMOVED	108.28	144	1,051
GROUND FILL	0.00	0	153

10 FT

6

6

PROJECT NO: 18112/39508802306

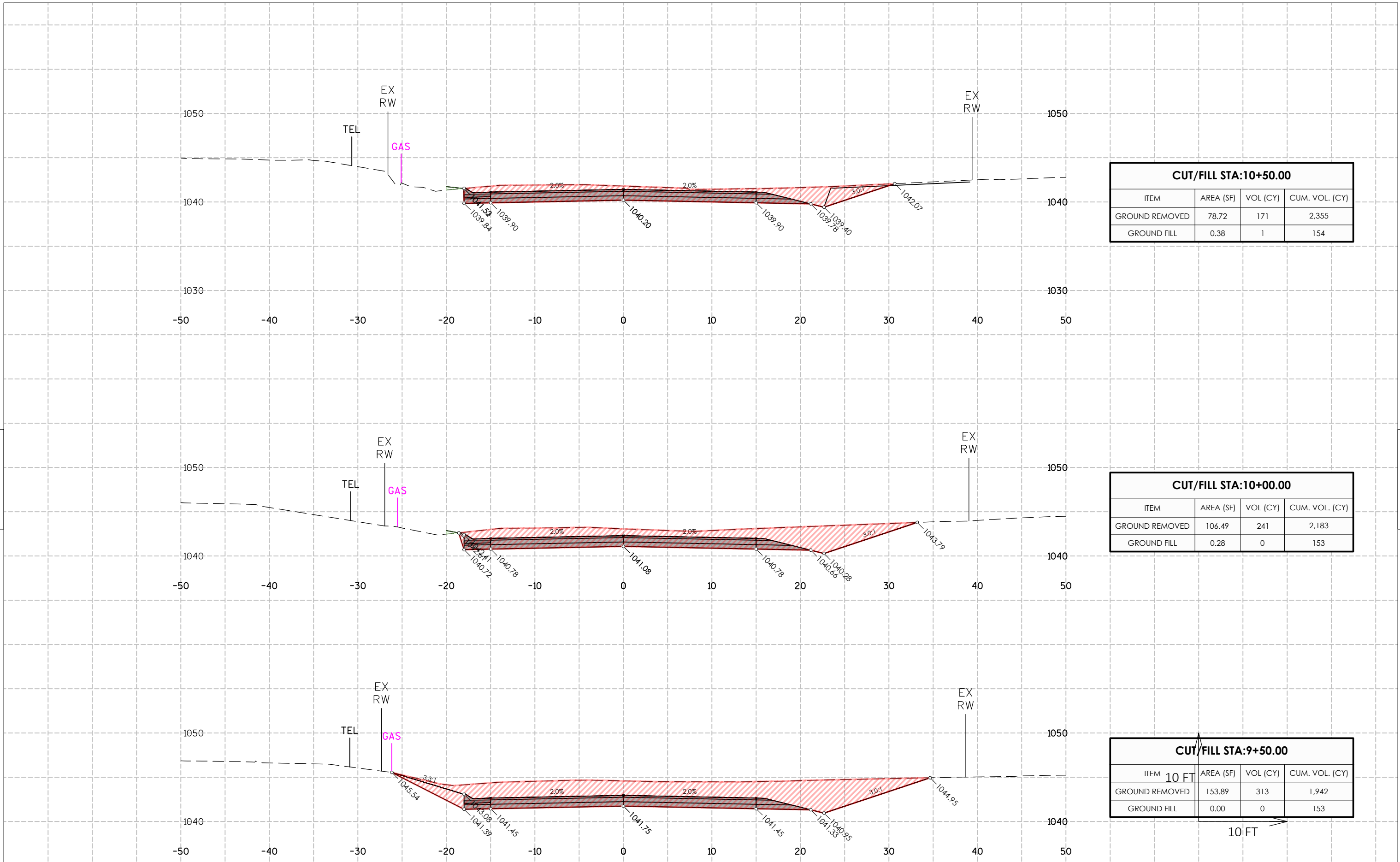
HWY: ELLSWORTH RD

COUNTY: MONROE COUNTY

CROSS SECTIONS: ELLSWORTH RD SECTIONS

SHEET

E



**CUT/FILL STA:10+50.00**

ITEM	AREA (SF)	VOL (CY)	CUM. VOL. (CY)
GROUND REMOVED	78.72	171	2,355
GROUND FILL	0.38	1	154

**CUT/FILL STA:10+00.00**

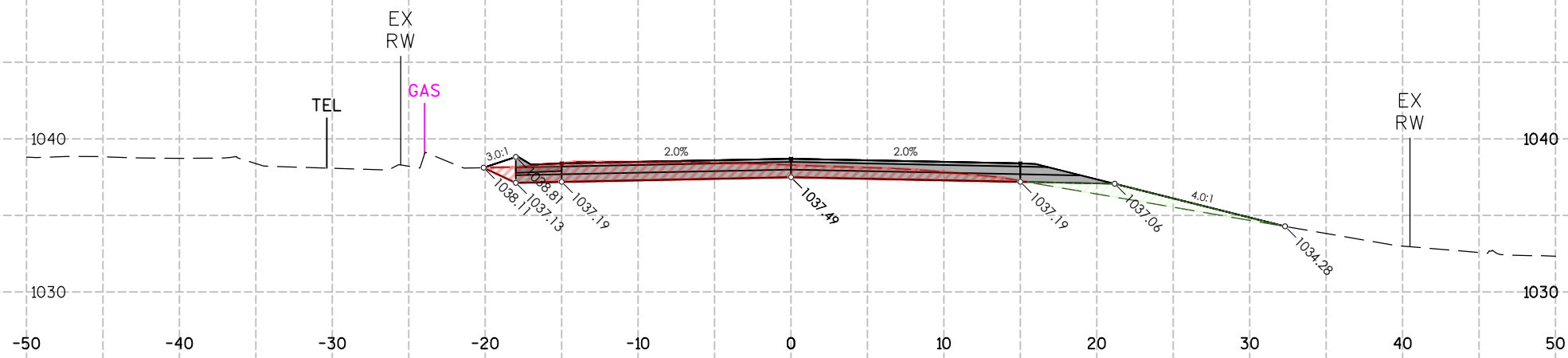
ITEM	AREA (SF)	VOL (CY)	CUM. VOL. (CY)
GROUND REMOVED	106.49	241	2,183
GROUND FILL	0.28	0	153

**CUT/FILL STA:9+50.00**

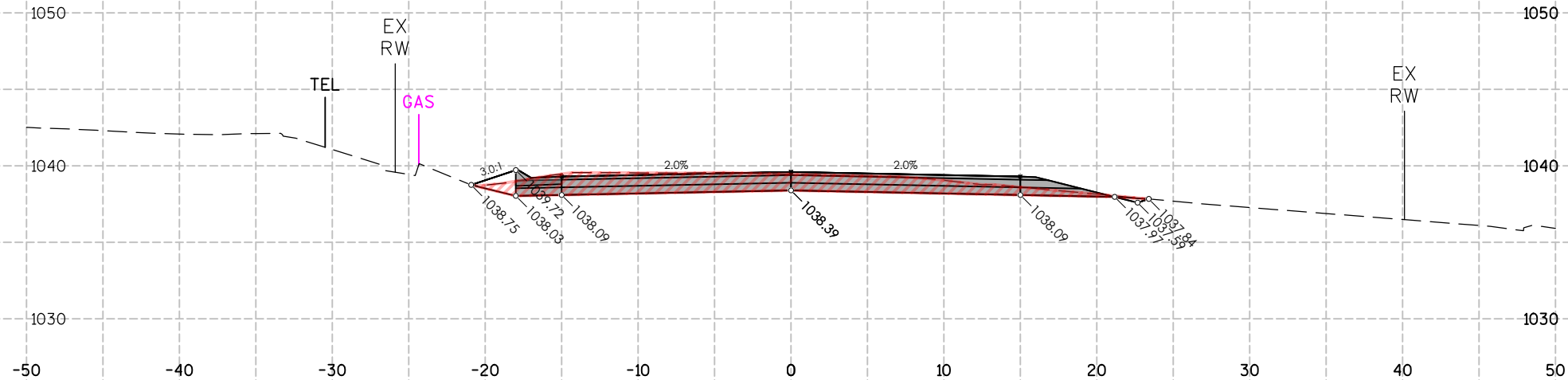
ITEM	10 FT AREA (SF)	VOL (CY)	CUM. VOL. (CY)
GROUND REMOVED	153.89	313	1,942
GROUND FILL	0.00	0	153

6

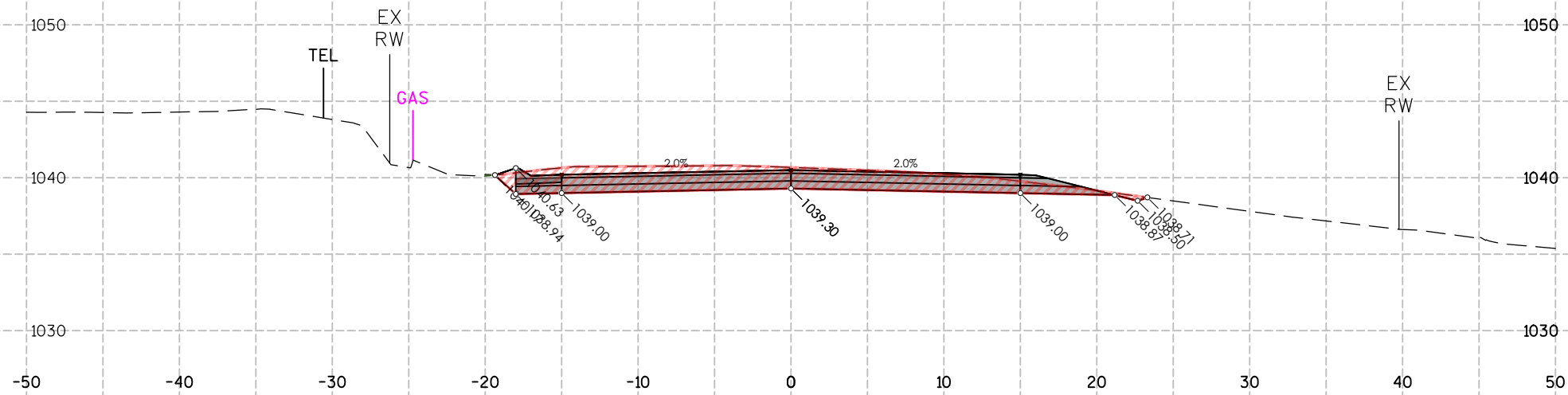
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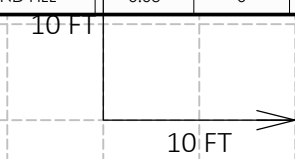
CUT/FILL STA:12+00.00			
ITEM	AREA (SF)	VOL (CY)	CUM. VOL. (CY)
GROUND REMOVED	29.96	64	2.622
GROUND FILL	7.33	7	161



CUT/FILL STA:11+50.00			
ITEM	AREA (SF)	VOL (CY)	CUM. VOL. (CY)
GROUND REMOVED	39.65	84	2.558
GROUND FILL	0.00	0	154

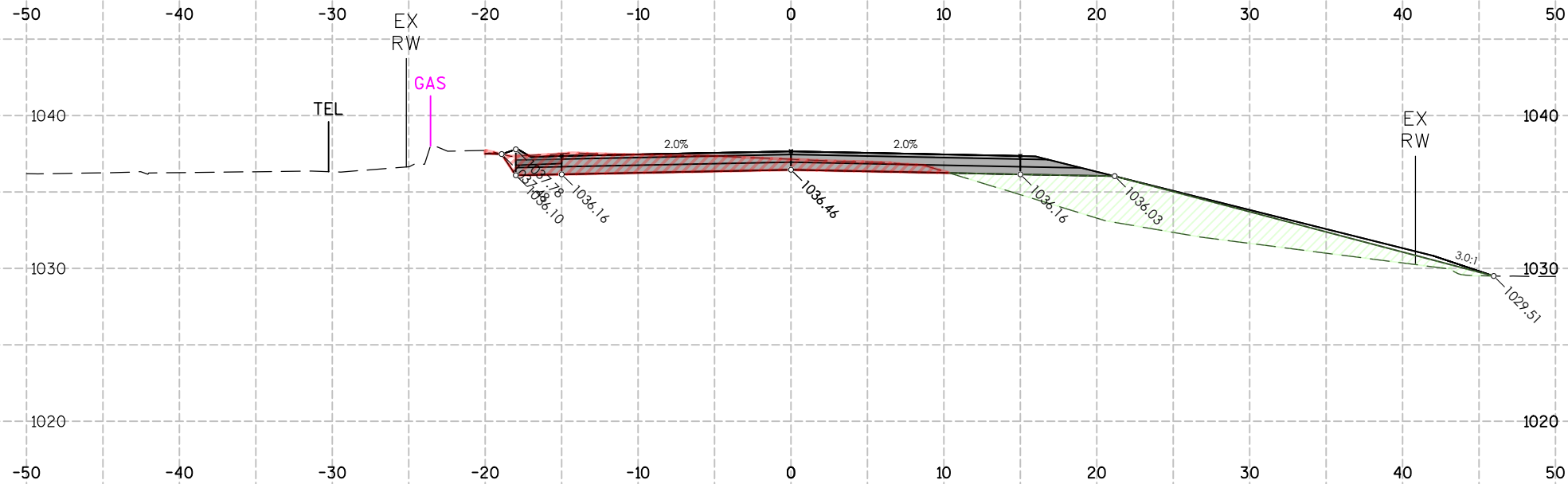
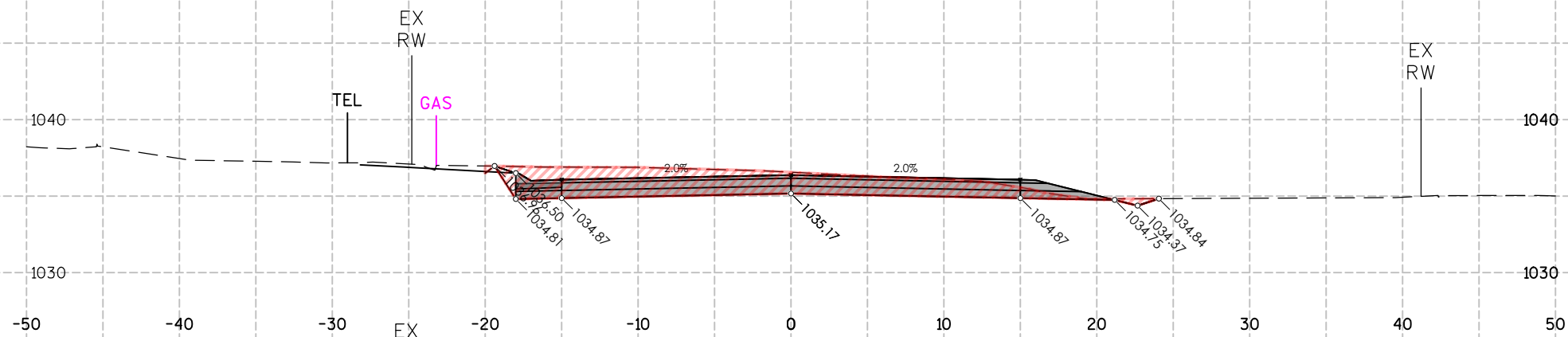
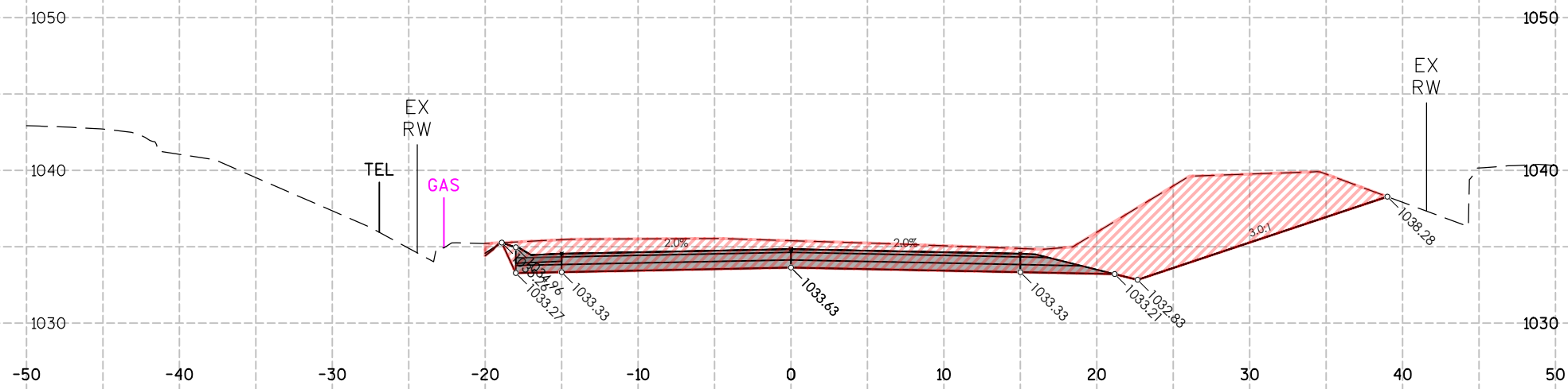


CUT/FILL STA:11+00.00			
ITEM	AREA (SF)	VOL (CY)	CUM. VOL. (CY)
GROUND REMOVED	50.58	120	2.474
GROUND FILL	0.03	0	154



6

6



PROJECT NO: 18112/39508802306

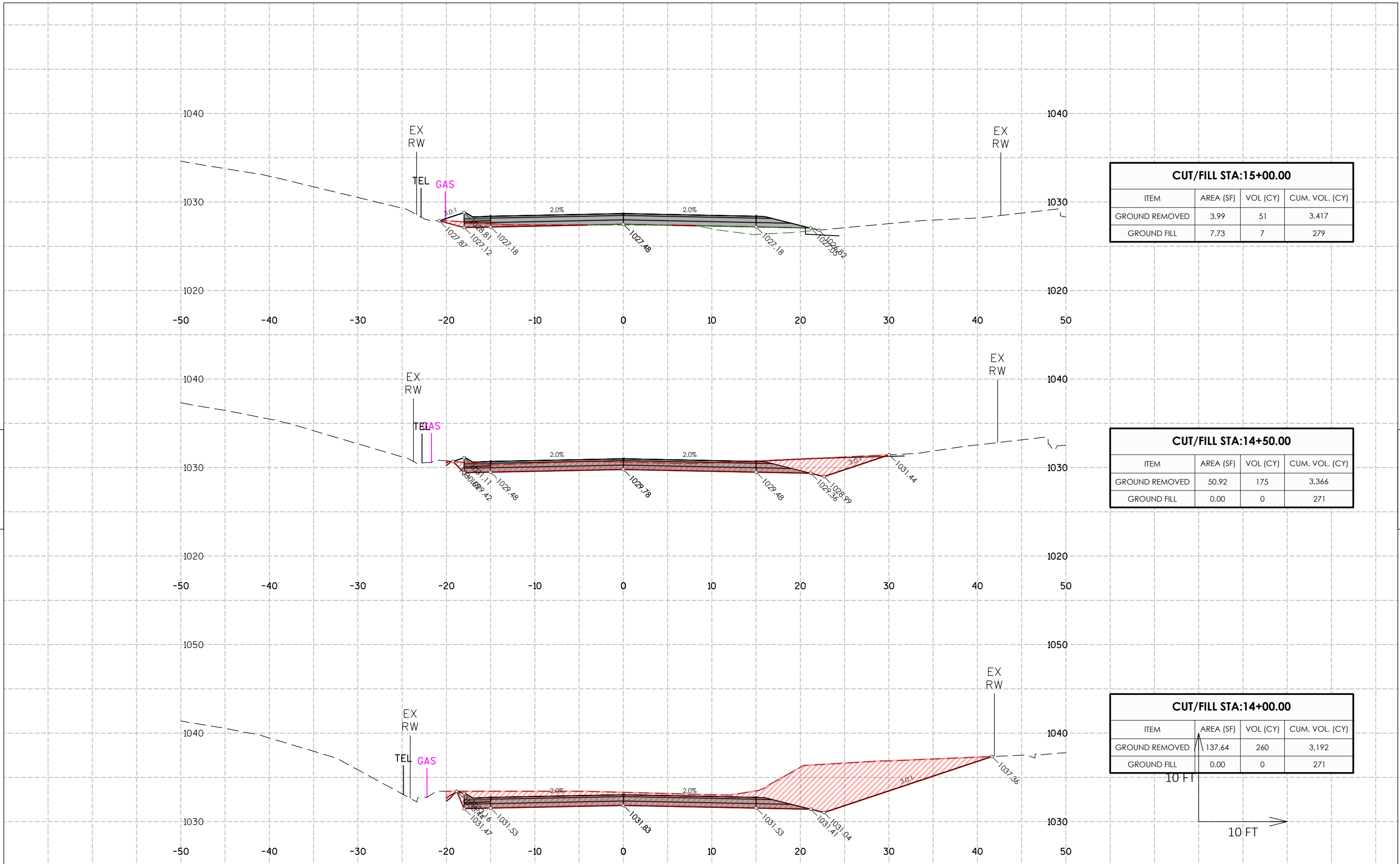
HWY: ELLSWORTH RD

COUNTY: MONROE COUNTY

CROSS SECTIONS: ELLSWORTH RD SECTIONS

SHEET

E



CUT/FILL STA:15+00.00			
ITEM	AREA (SF)	VOL (CY)	CUM. VOL. (CY)
GROUND REMOVED	3.99	51	3,417
GROUND FILL	7.73	7	279

CUT/FILL STA:14+50.00			
ITEM	AREA (SF)	VOL (CY)	CUM. VOL. (CY)
GROUND REMOVED	50.92	175	3,366
GROUND FILL	0.00	0	271

CUT/FILL STA:14+00.00			
ITEM	AREA (SF)	VOL (CY)	CUM. VOL. (CY)
GROUND REMOVED	137.64	260	3,192
GROUND FILL	0.00	0	271

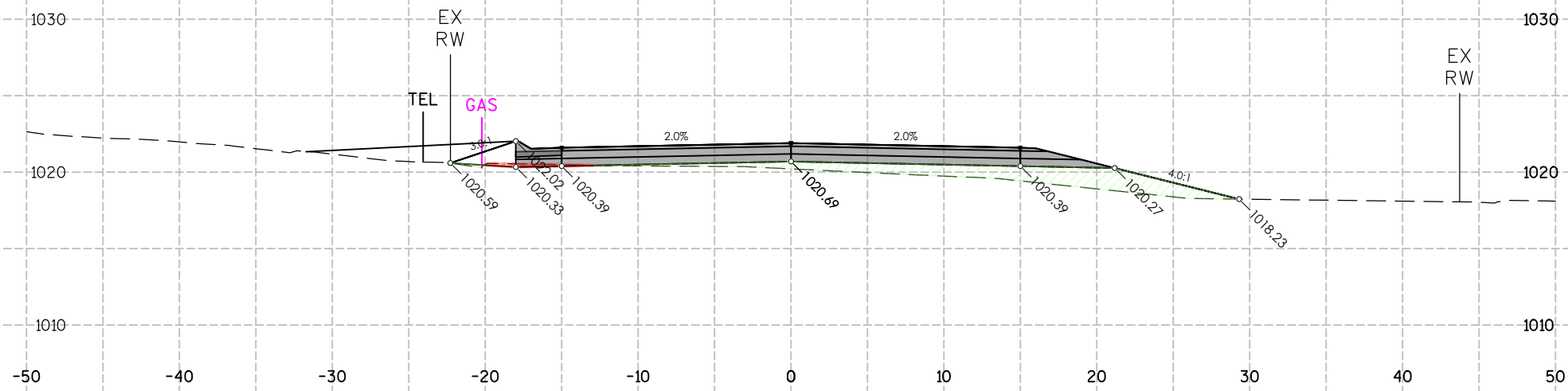
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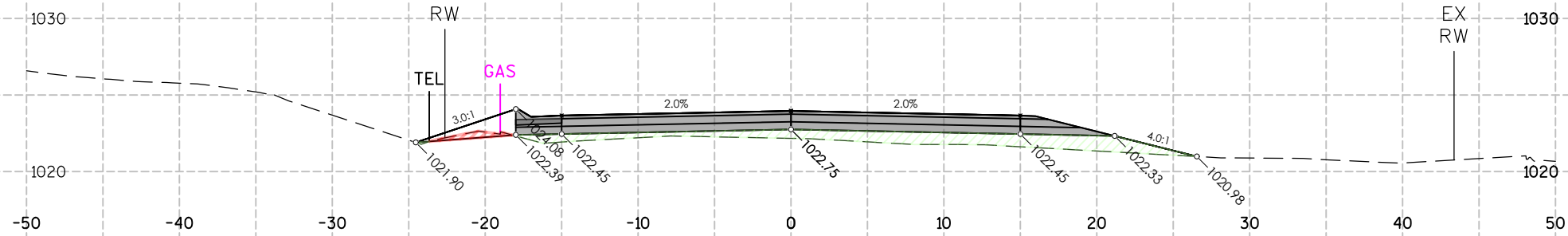
PROJECT NO: 18112/39508802306      HWY: ELLSWORTH RD      COUNTY: MONROE COUNTY      CROSS SECTIONS: ELLSWORTH RD SECTIONS      SHEET      E

FILE NAME : F:\Q2\2023\Q23189 ELLSWORTH RD T LA GRANGE\CAD\SECTIONS.DWG      PLOT DATE : 2/12/2024 9:26 AM      PLOT BY : SSR      PLOT NAME :      PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.      WISDOT/CADD SHEET 49

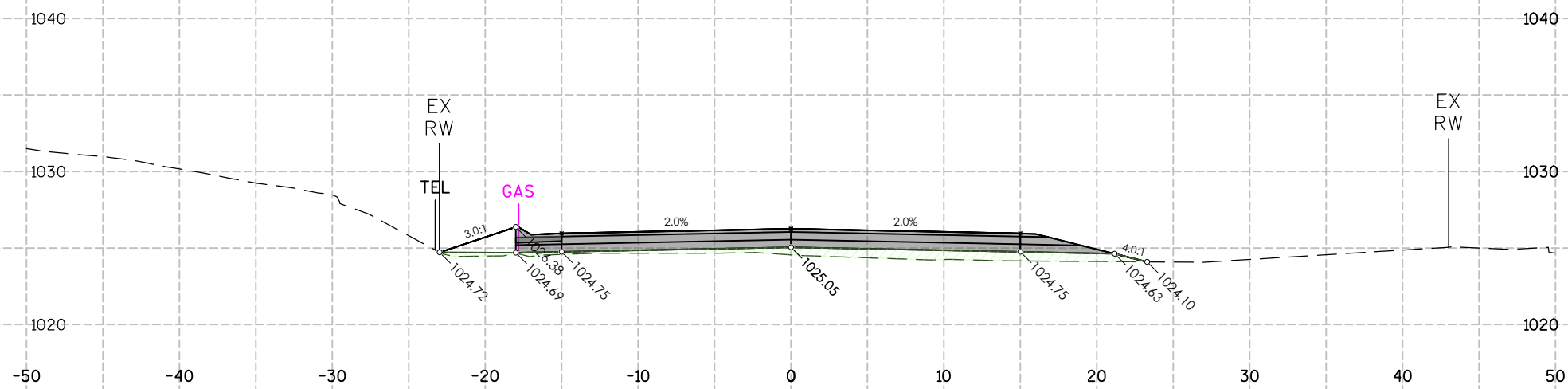
LAYOUT NAME - 9



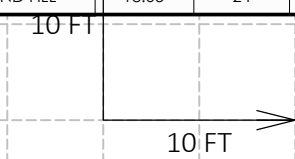
CUT/FILL STA:16+50.00			
ITEM	AREA (SF)	VOL (CY)	CUM. VOL. (CY)
GROUND REMOVED	0.88	2	3,424
GROUND FILL	27.45	50	395

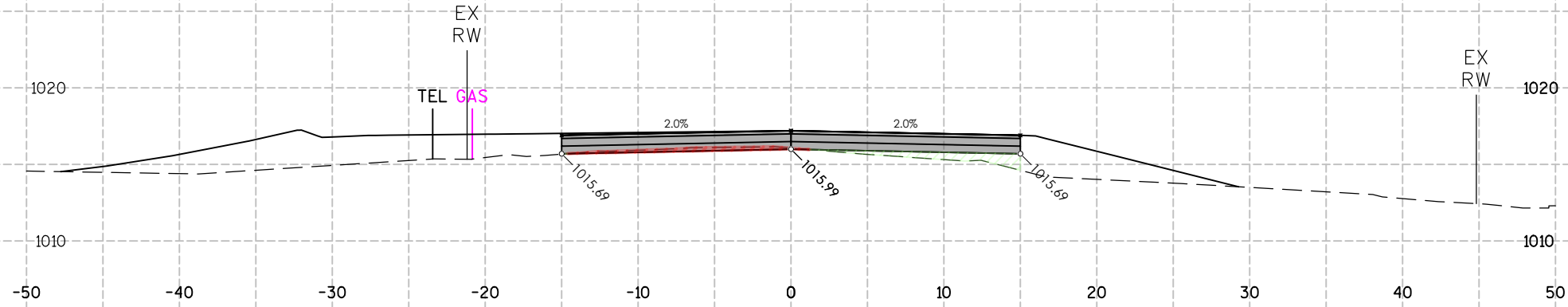


CUT/FILL STA:16+00.00			
ITEM	AREA (SF)	VOL (CY)	CUM. VOL. (CY)
GROUND REMOVED	1.27	1	3,422
GROUND FILL	26.94	42	344

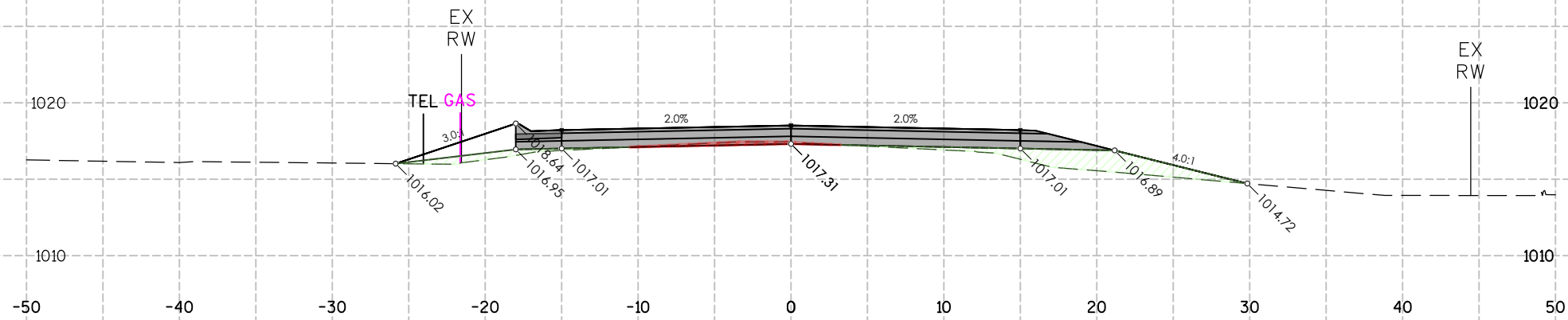


CUT/FILL STA:15+50.00			
ITEM	AREA (SF)	VOL (CY)	CUM. VOL. (CY)
GROUND REMOVED	0.00	4	3,421
GROUND FILL	18.05	24	303

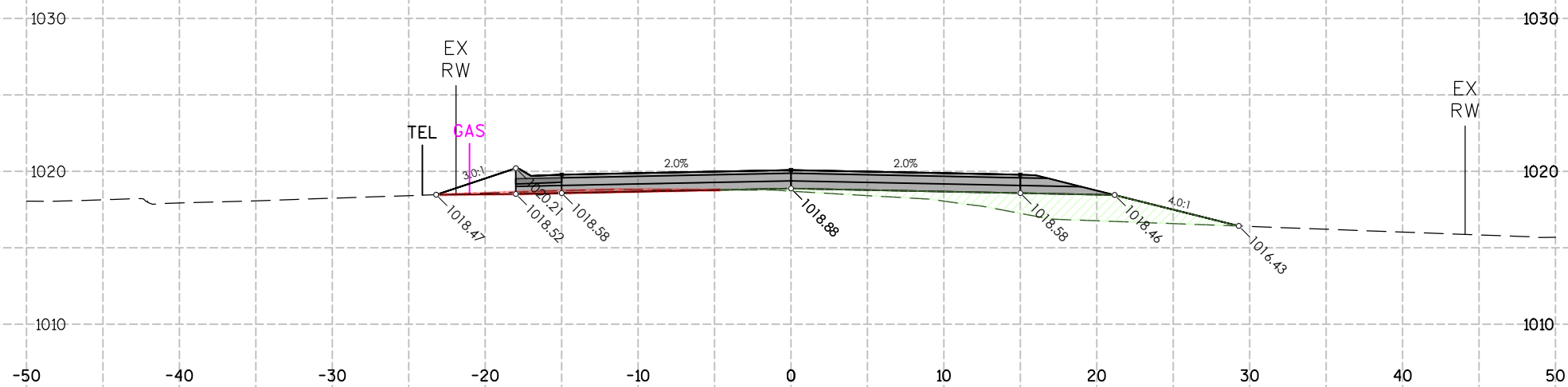




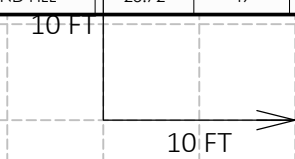
CUT/FILL STA:18+00.00			
ITEM	AREA (SF)	VOL (CY)	CUM. VOL. (CY)
GROUND REMOVED	2.36	4	3,433
GROUND FILL	5.45	23	509



CUT/FILL STA:17+50.00			
ITEM	AREA (SF)	VOL (CY)	CUM. VOL. (CY)
GROUND REMOVED	1.49	3	3,430
GROUND FILL	19.47	42	486



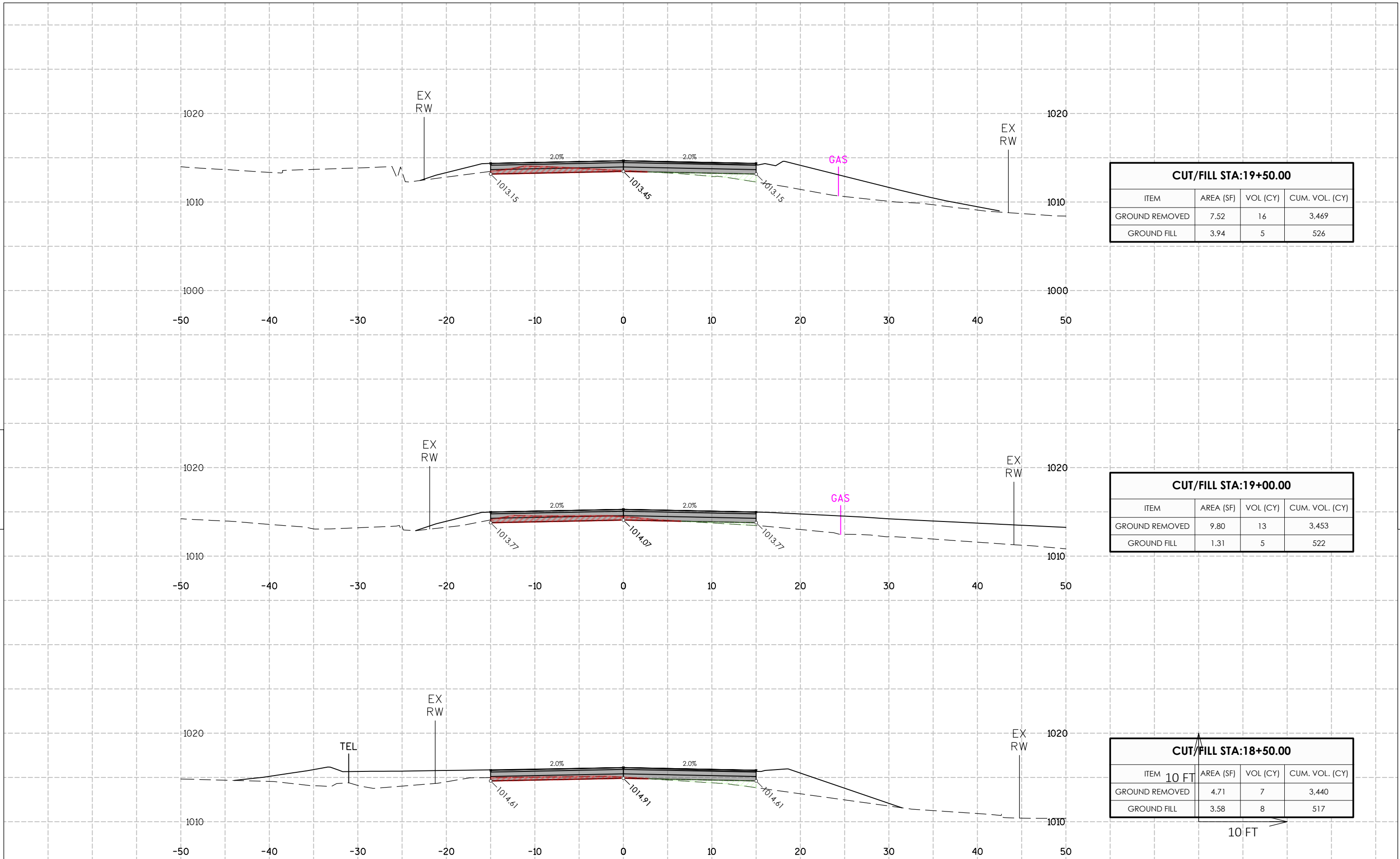
CUT/FILL STA:17+00.00			
ITEM	AREA (SF)	VOL (CY)	CUM. VOL. (CY)
GROUND REMOVED	1.90	3	3,427
GROUND FILL	25.72	49	444



6

6





**CUT/FILL STA:19+50.00**

ITEM	AREA (SF)	VOL (CY)	CUM. VOL. (CY)
GROUND REMOVED	7.52	16	3,469
GROUND FILL	3.94	5	526

**CUT/FILL STA:19+00.00**

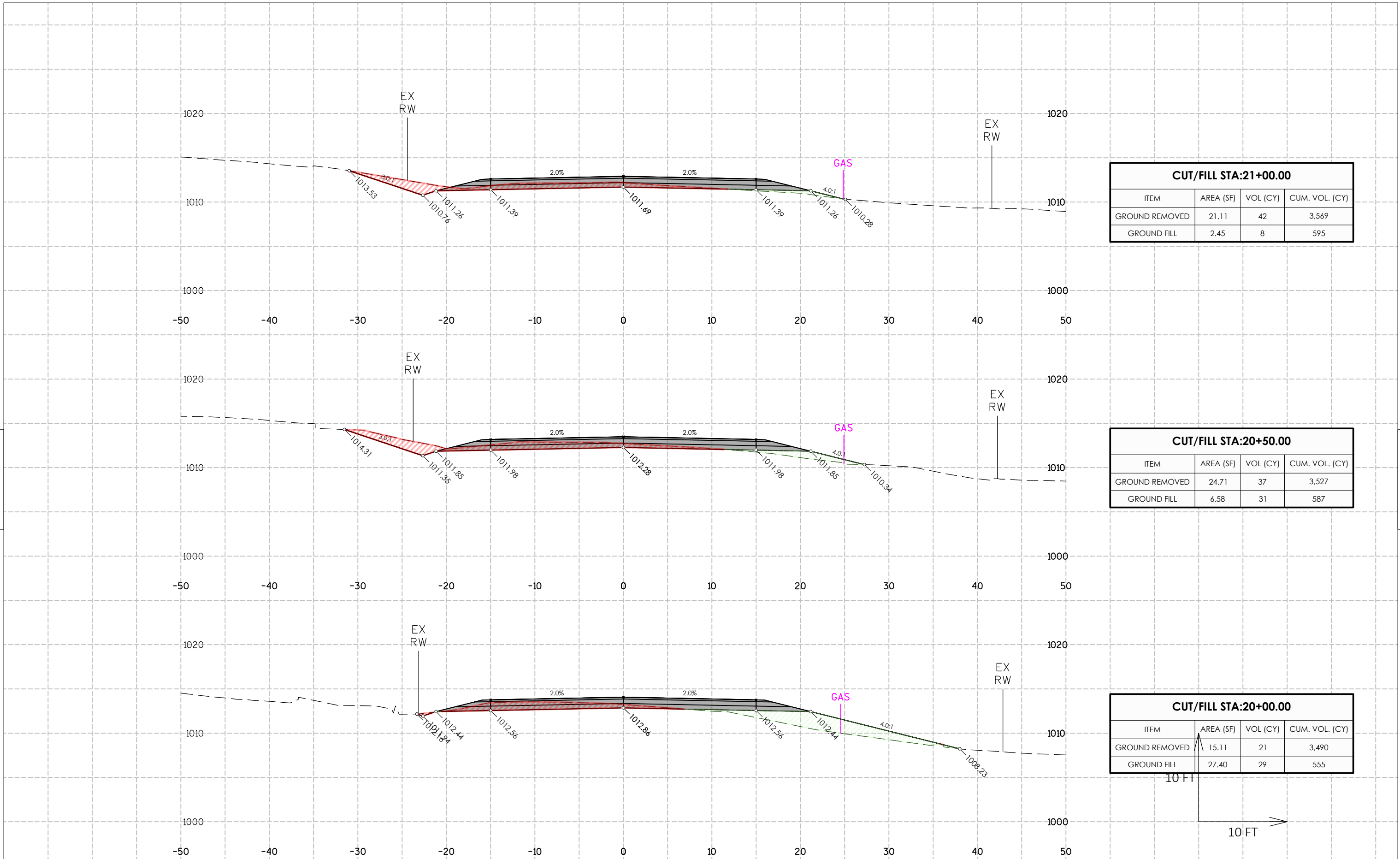
ITEM	AREA (SF)	VOL (CY)	CUM. VOL. (CY)
GROUND REMOVED	9.80	13	3,453
GROUND FILL	1.31	5	522

**CUT/FILL STA:18+50.00**

ITEM	AREA (SF)	VOL (CY)	CUM. VOL. (CY)
GROUND REMOVED	4.71	7	3,440
GROUND FILL	3.58	8	517

6

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**CUT/FILL STA:21+00.00**

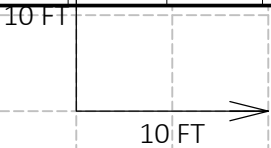
ITEM	AREA (SF)	VOL (CY)	CUM. VOL. (CY)
GROUND REMOVED	21.11	42	3,569
GROUND FILL	2.45	8	595

**CUT/FILL STA:20+50.00**

ITEM	AREA (SF)	VOL (CY)	CUM. VOL. (CY)
GROUND REMOVED	24.71	37	3,527
GROUND FILL	6.58	31	587

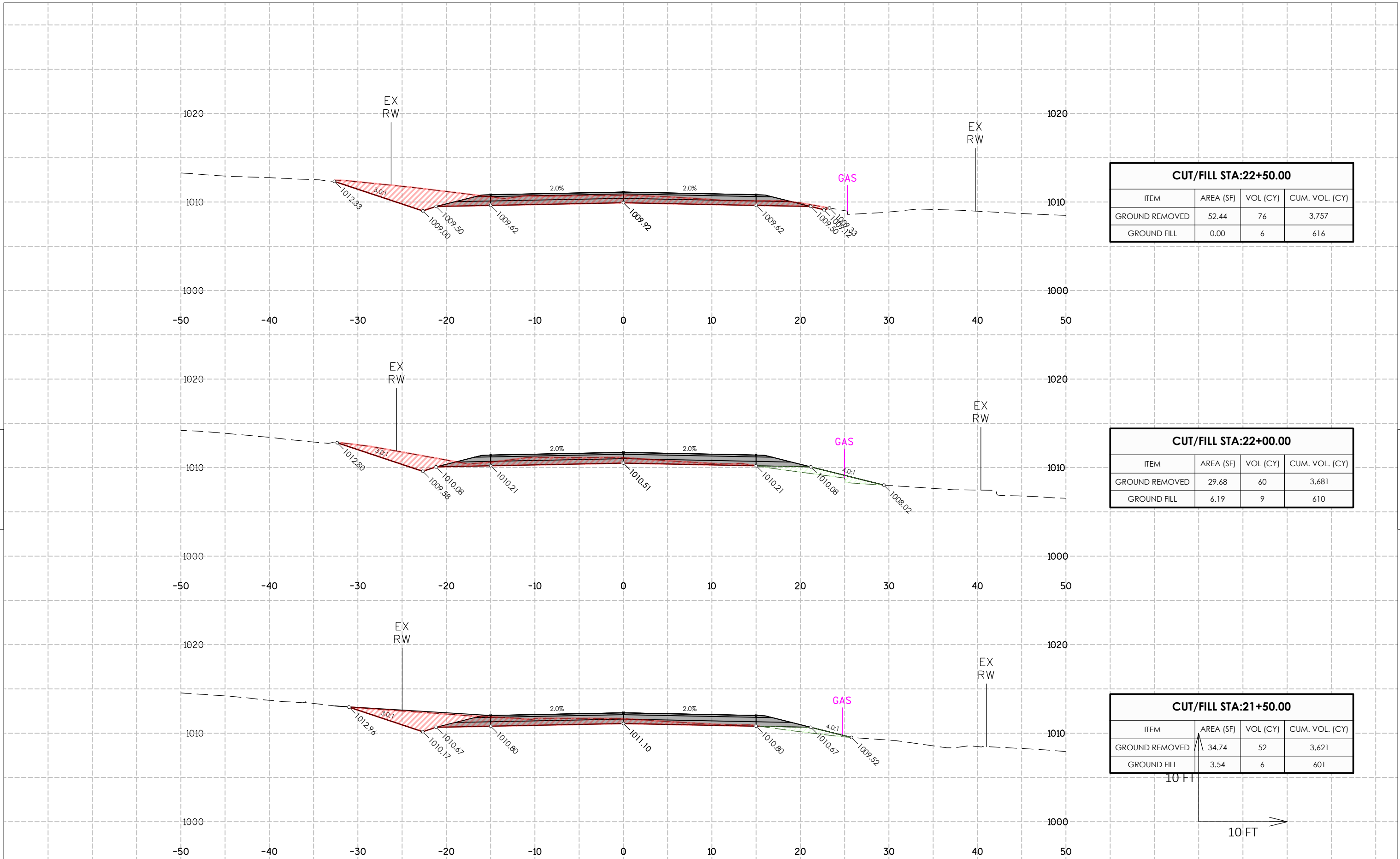
**CUT/FILL STA:20+00.00**

ITEM	AREA (SF)	VOL (CY)	CUM. VOL. (CY)
GROUND REMOVED	15.11	21	3,490
GROUND FILL	27.40	29	555



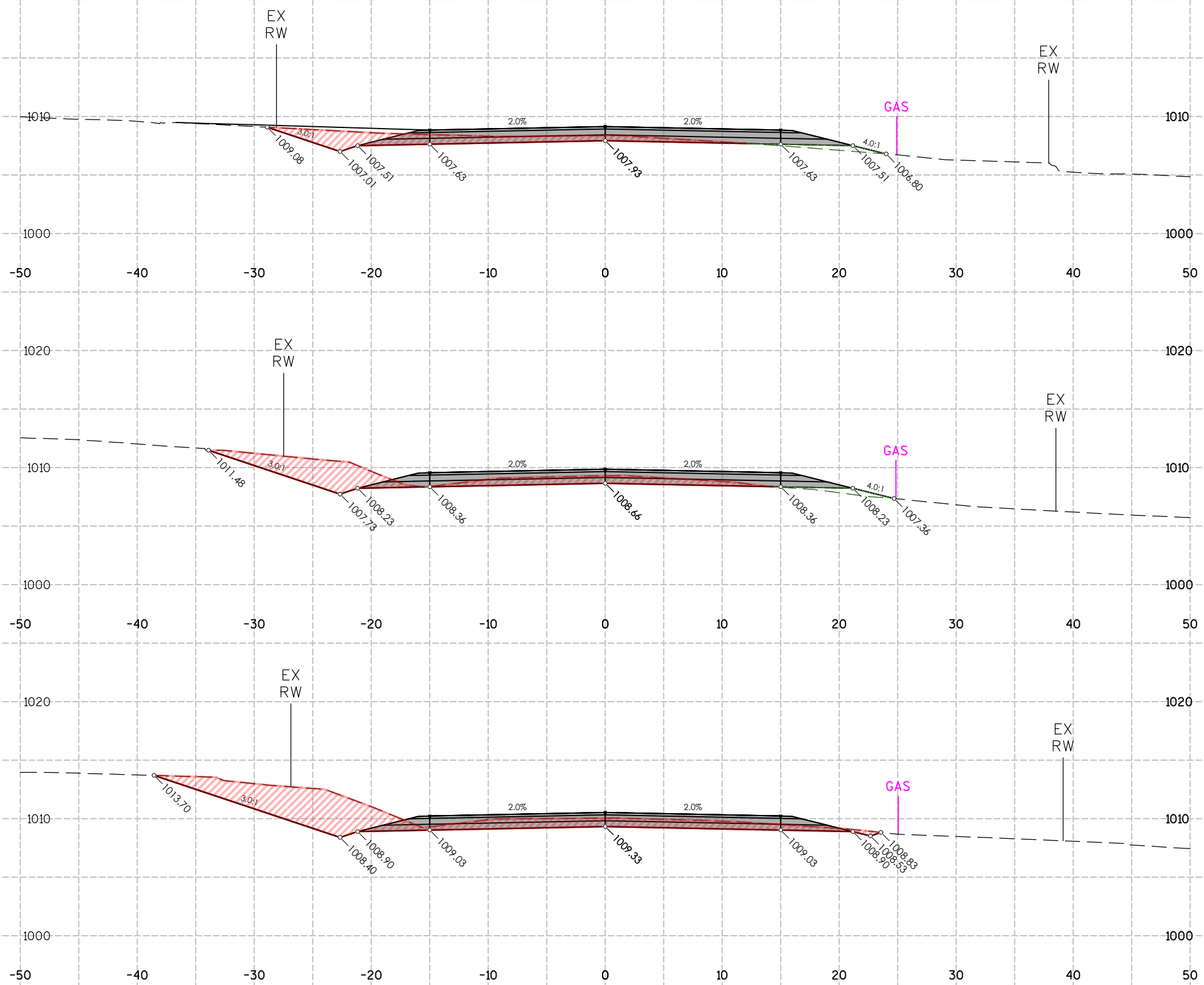
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**CUT/FILL STA:24+00.00**

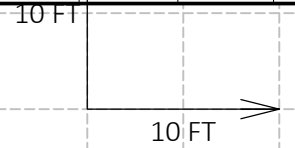
ITEM	AREA (SF)	VOL (CY)	CUM. VOL. (CY)
GROUND REMOVED	25.16	59	4.027
GROUND FILL	2.80	5	623

**CUT/FILL STA:23+50.00**

ITEM	AREA (SF)	VOL (CY)	CUM. VOL. (CY)
GROUND REMOVED	38.40	99	3,968
GROUND FILL	2.51	2	618

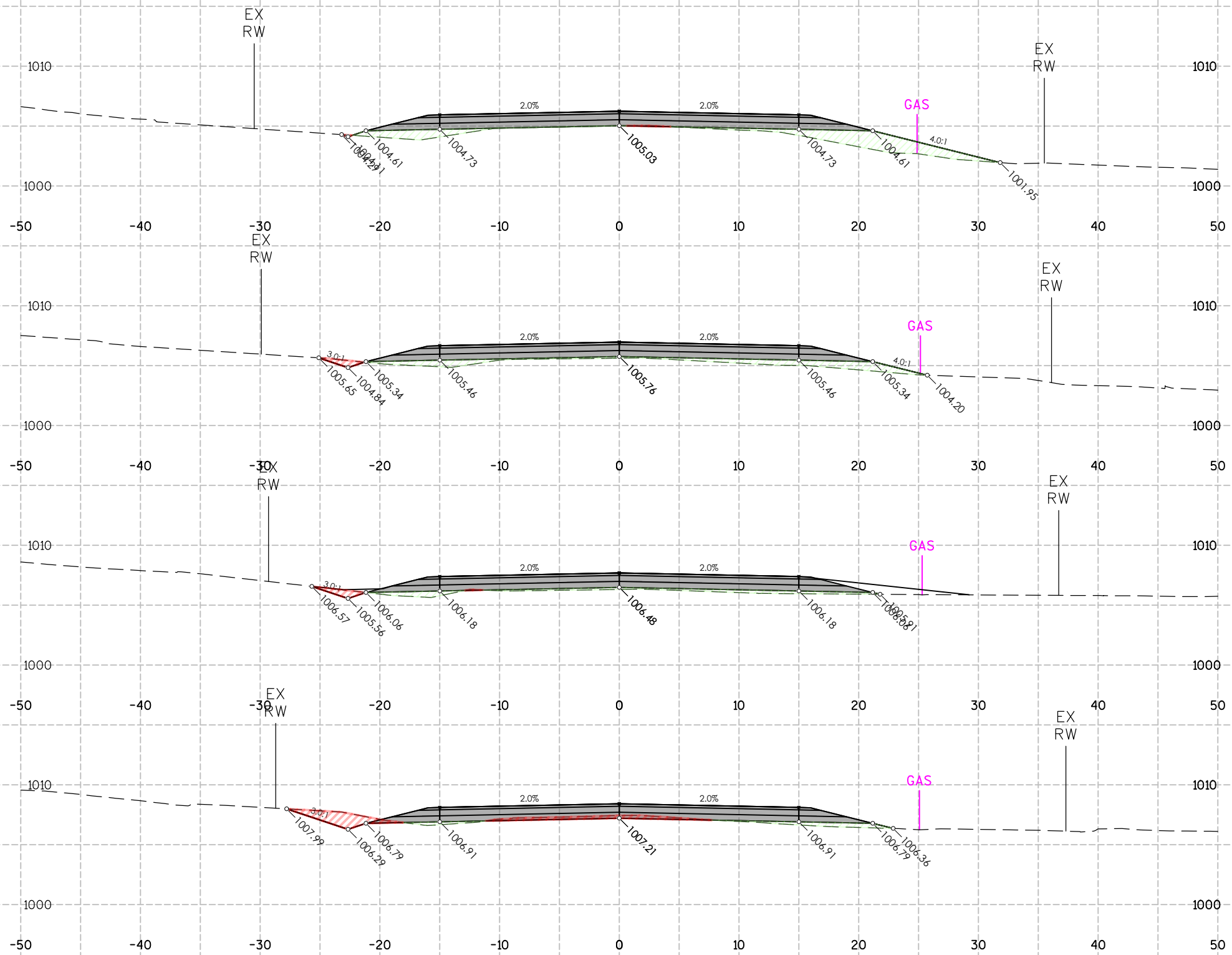
**CUT/FILL STA:23+00.00**

ITEM	AREA (SF)	VOL (CY)	CUM. VOL. (CY)
GROUND REMOVED	68.40	112	3,869
GROUND FILL	0.00	0	616



6

6



**CUT/FILL STA:26+00.00**

ITEM	AREA (SF)	VOL (CY)	CUM. VOL. (CY)
GROUND REMOVED	0.17	1	4.072
GROUND FILL	23.23	35	697

**CUT/FILL STA:25+50.00**

ITEM	AREA (SF)	VOL (CY)	CUM. VOL. (CY)
GROUND REMOVED	1.17	3	4.071
GROUND FILL	14.60	21	662

**CUT/FILL STA:25+00.00**

ITEM	AREA (SF)	VOL (CY)	CUM. VOL. (CY)
GROUND REMOVED	1.56	10	4.068
GROUND FILL	7.95	11	641

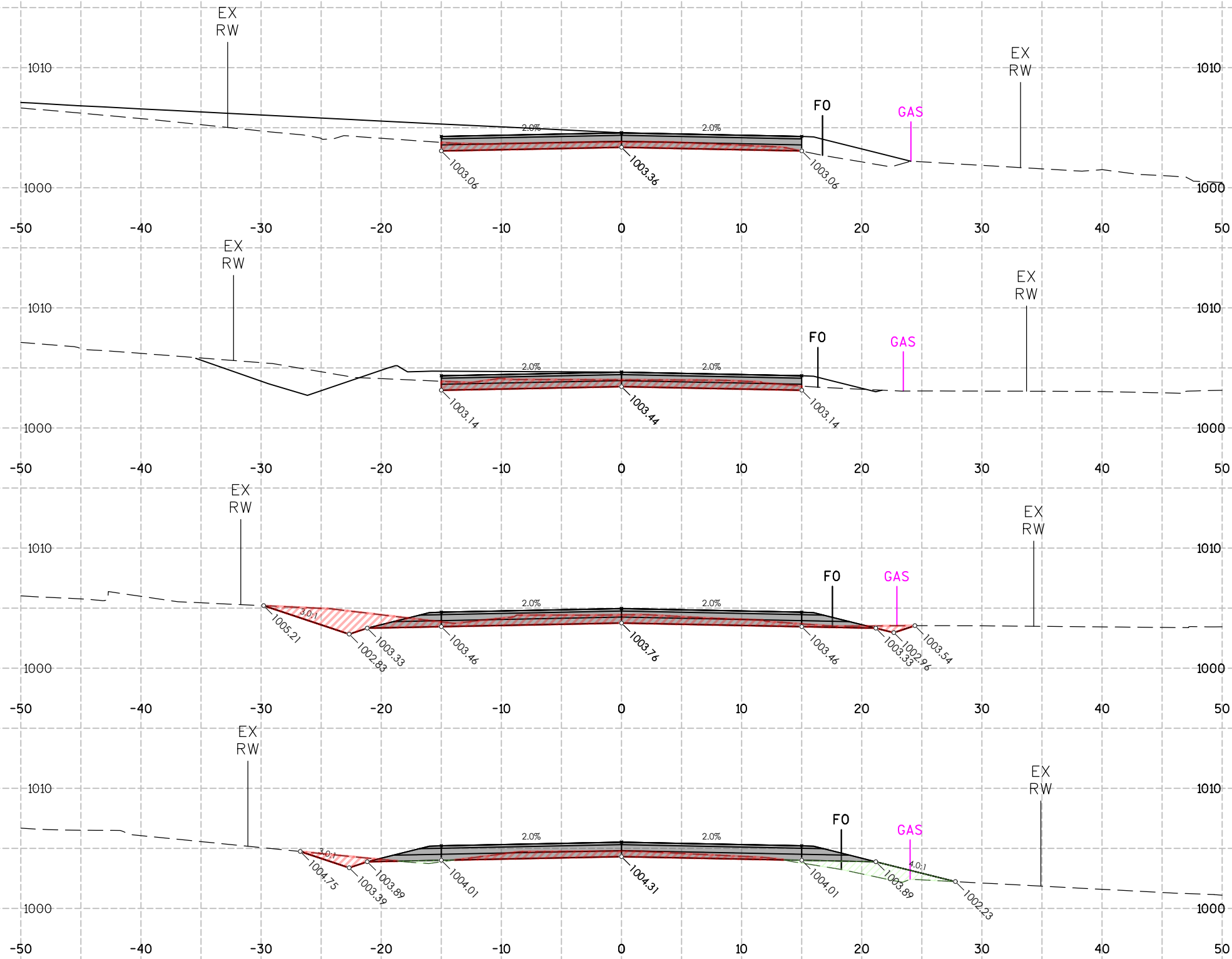
**CUT/FILL STA:24+50.00**

ITEM	AREA (SF)	VOL (CY)	CUM. VOL. (CY)
GROUND REMOVED	9.17	32	4.058
GROUND FILL	4.42	7	629

6

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10 FT



**CUT/FILL STA:28+00.00**

ITEM	AREA (SF)	VOL (CY)	CUM. VOL. (CY)
GROUND REMOVED	13.73	31	4,210
GROUND FILL	0.00	0	737

**CUT/FILL STA:27+50.00**

ITEM	AREA (SF)	VOL (CY)	CUM. VOL. (CY)
GROUND REMOVED	19.54	50	4,179
GROUND FILL	0.00	0	737

**CUT/FILL STA:27+00.00**

ITEM	AREA (SF)	VOL (CY)	CUM. VOL. (CY)
GROUND REMOVED	34.54	44	4,129
GROUND FILL	0.00	9	737

**CUT/FILL STA:26+50.00**

ITEM	AREA (SF)	VOL (CY)	CUM. VOL. (CY)
GROUND REMOVED	13.43	13	4,085
GROUND FILL	9.86	31	727

6

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PROJECT NO: 18112/39508802306

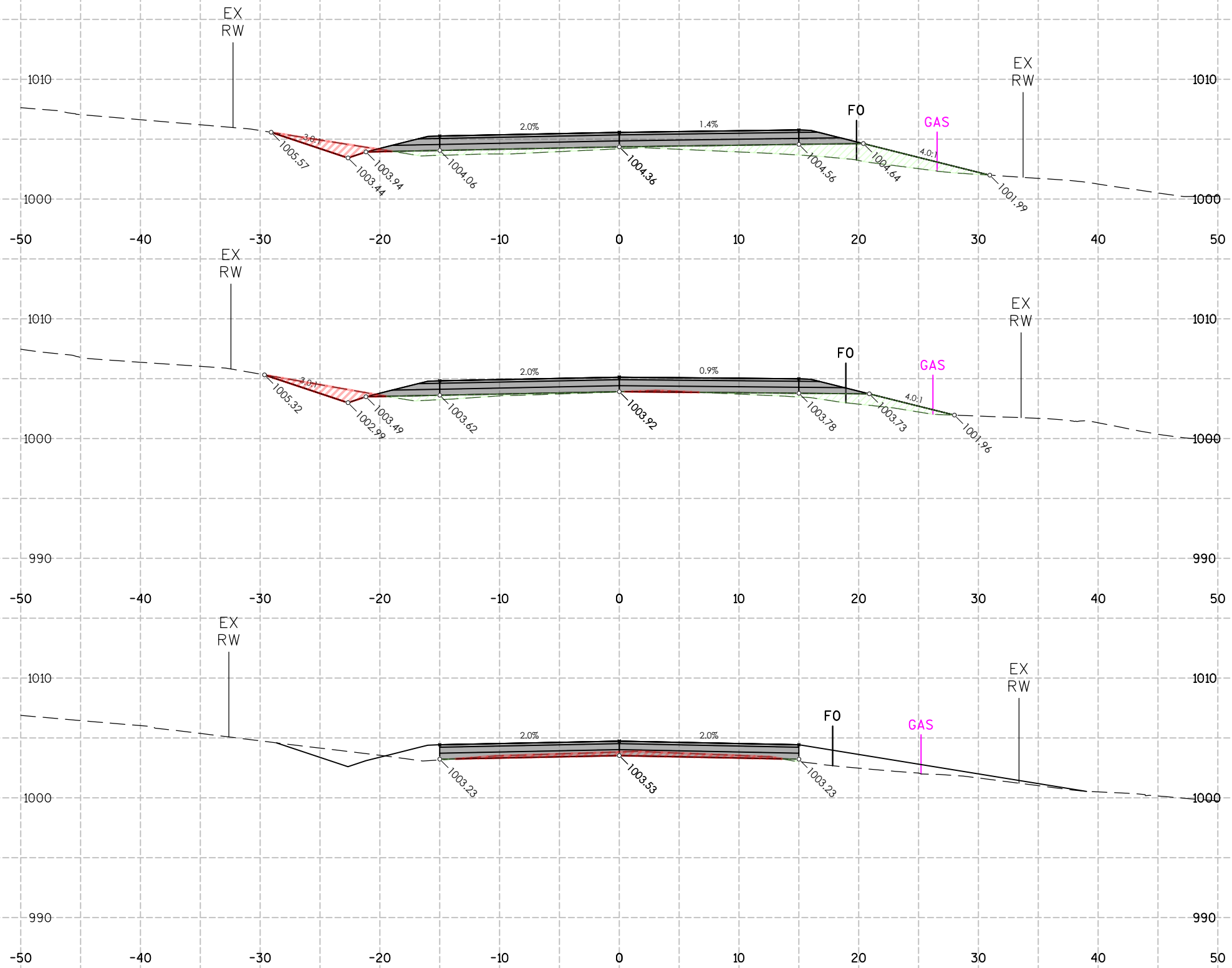
HWY: ELLSWORTH RD

COUNTY: MONROE COUNTY

CROSS SECTIONS: ELLSWORTH RD SECTIONS

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**CUT/FILL STA:29+50.00**

ITEM	AREA (SF)	VOL (CY)	CUM. VOL. (CY)
GROUND REMOVED	5.18	10	4.250
GROUND FILL	27.39	37	785

**CUT/FILL STA:29+00.00**

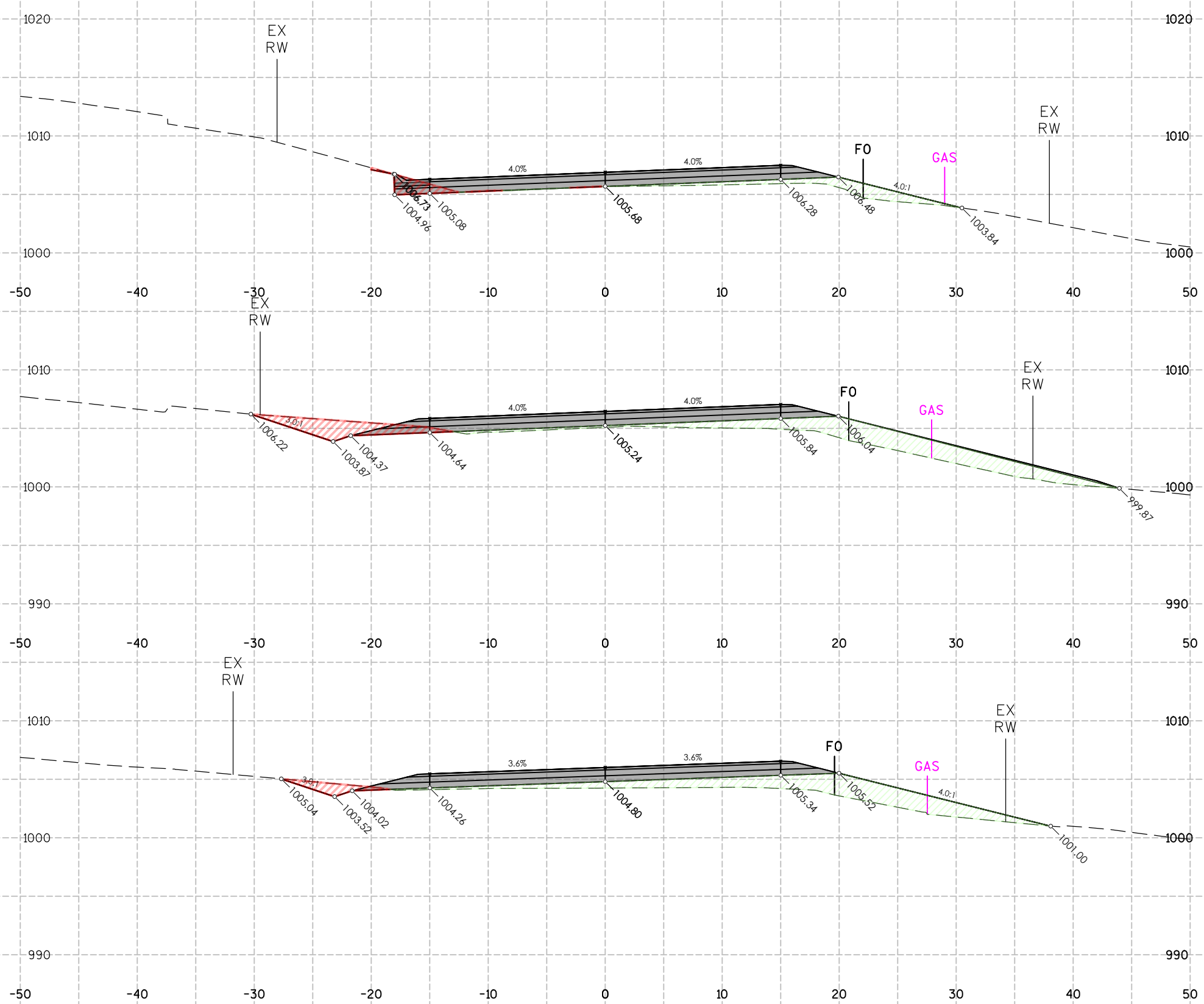
ITEM	AREA (SF)	VOL (CY)	CUM. VOL. (CY)
GROUND REMOVED	5.59	11	4.240
GROUND FILL	12.22	12	748

**CUT/FILL STA:28+50.00**

ITEM	AREA (SF)	VOL (CY)	CUM. VOL. (CY)
GROUND REMOVED	6.40	19	4.229
GROUND FILL	0.21	0	737

6

6



**CUT/FILL STA:31+00.00**

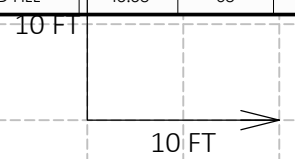
ITEM	AREA (SF)	VOL (CY)	CUM. VOL. (CY)
GROUND REMOVED	5.11	18	4,294
GROUND FILL	12.86	55	995

**CUT/FILL STA:30+50.00**

ITEM	AREA (SF)	VOL (CY)	CUM. VOL. (CY)
GROUND REMOVED	14.90	17	4,276
GROUND FILL	45.21	86	940

**CUT/FILL STA:30+00.00**

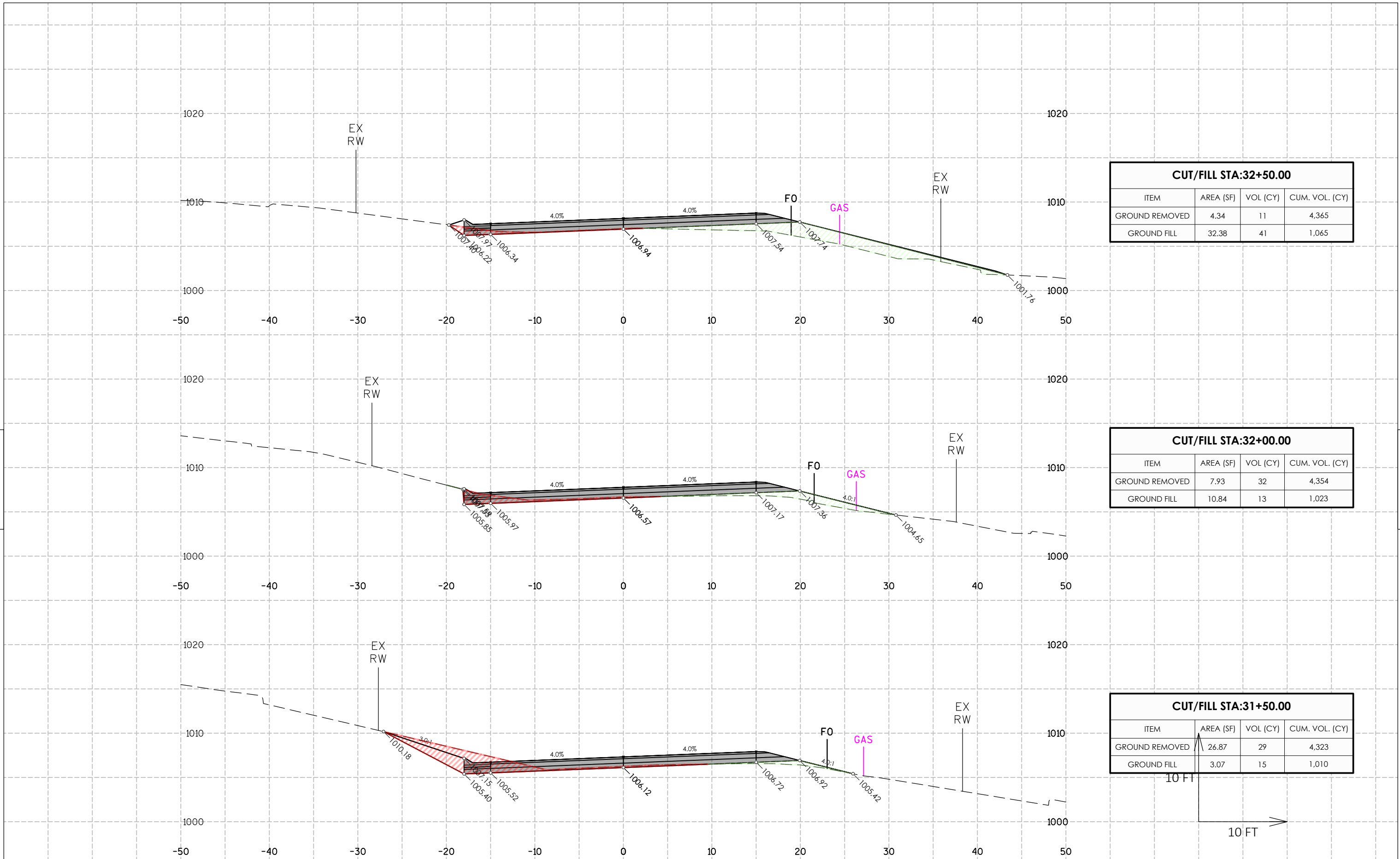
ITEM	AREA (SF)	VOL (CY)	CUM. VOL. (CY)
GROUND REMOVED	4.54	9	4,258
GROUND FILL	45.58	68	853



6

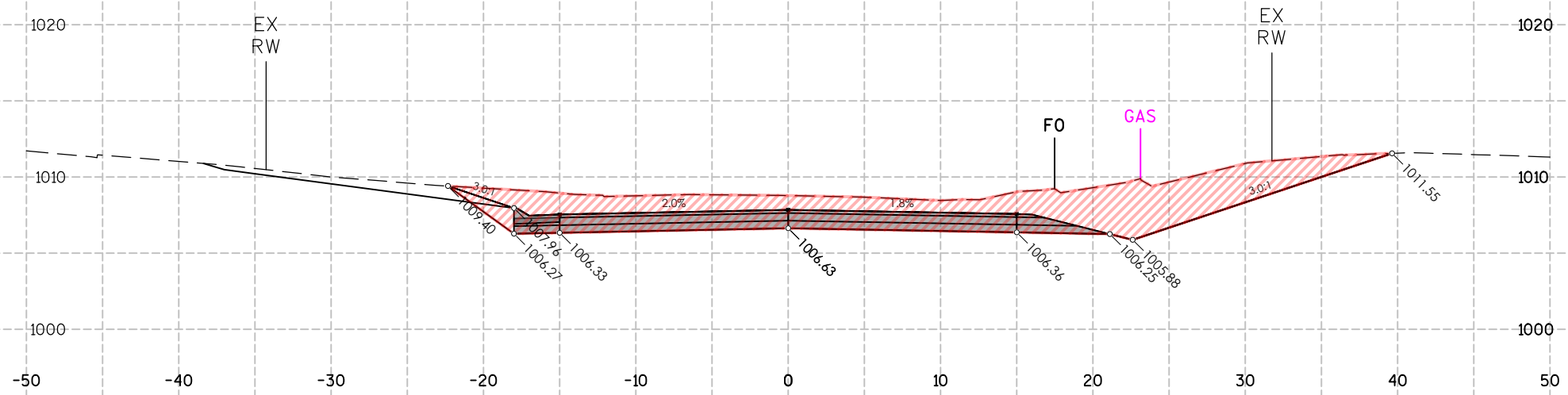
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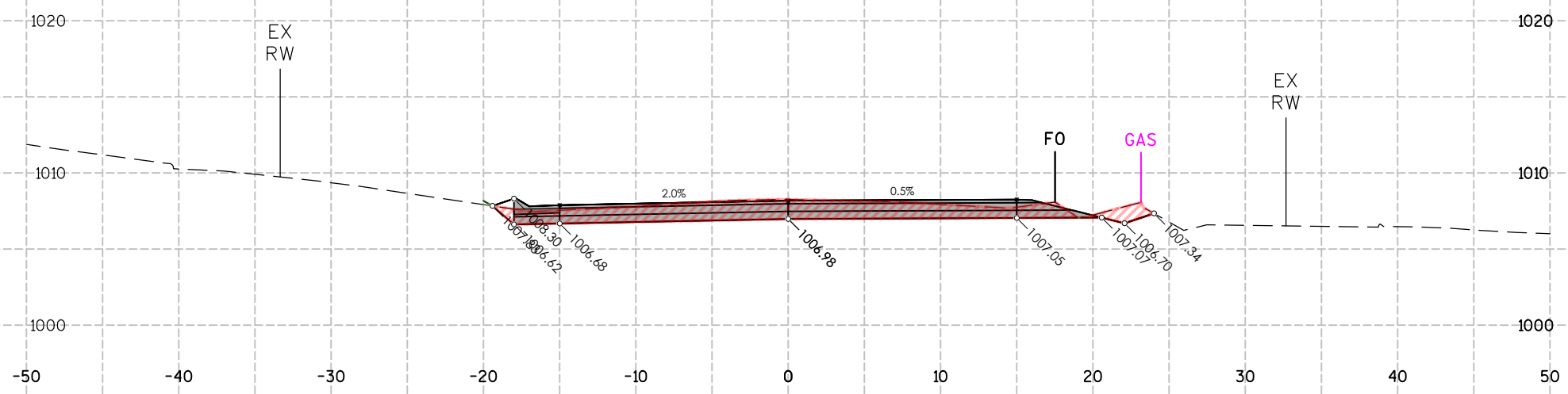


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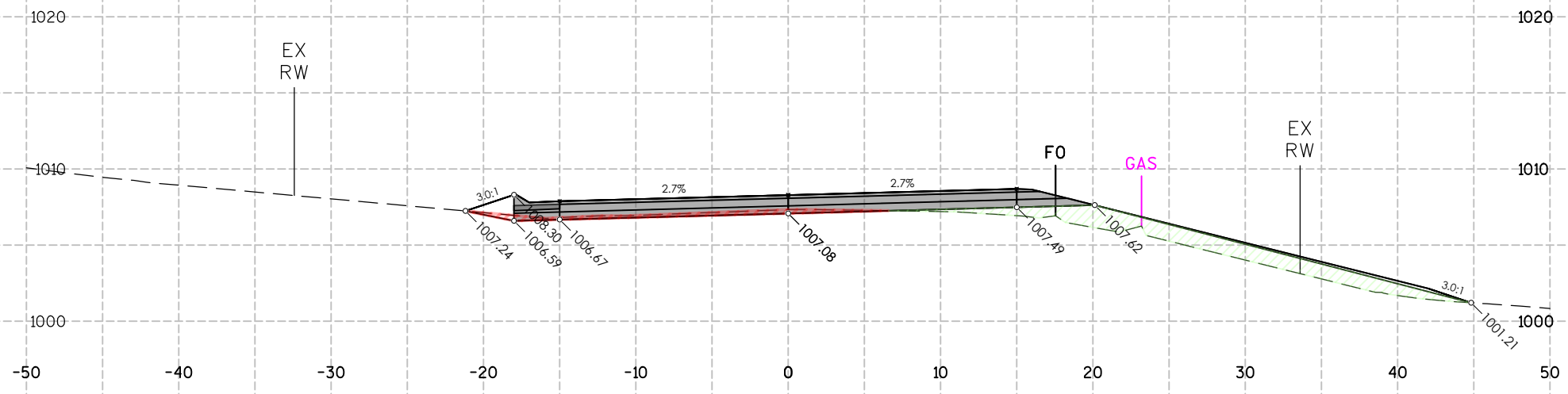
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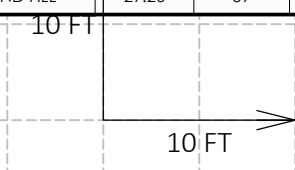
CUT/FILL STA:34+00.00			
ITEM	AREA (SF)	VOL (CY)	CUM. VOL. (CY)
GROUND REMOVED	139.26	167	4,583
GROUND FILL	0.00	0	1,151



CUT/FILL STA:33+50.00			
ITEM	AREA (SF)	VOL (CY)	CUM. VOL. (CY)
GROUND REMOVED	40.99	42	4,416
GROUND FILL	0.07	27	1,151

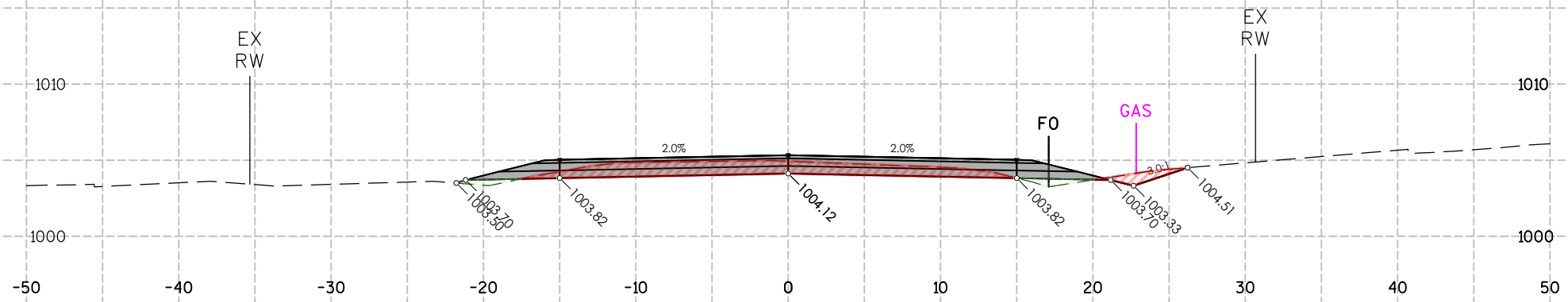


CUT/FILL STA:33+00.00			
ITEM	AREA (SF)	VOL (CY)	CUM. VOL. (CY)
GROUND REMOVED	4.88	8	4,374
GROUND FILL	29.26	59	1,124

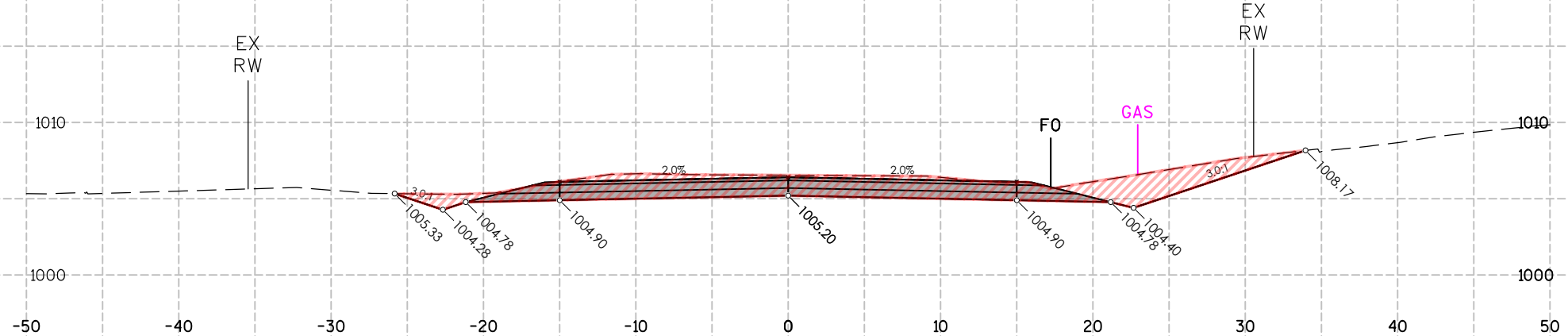


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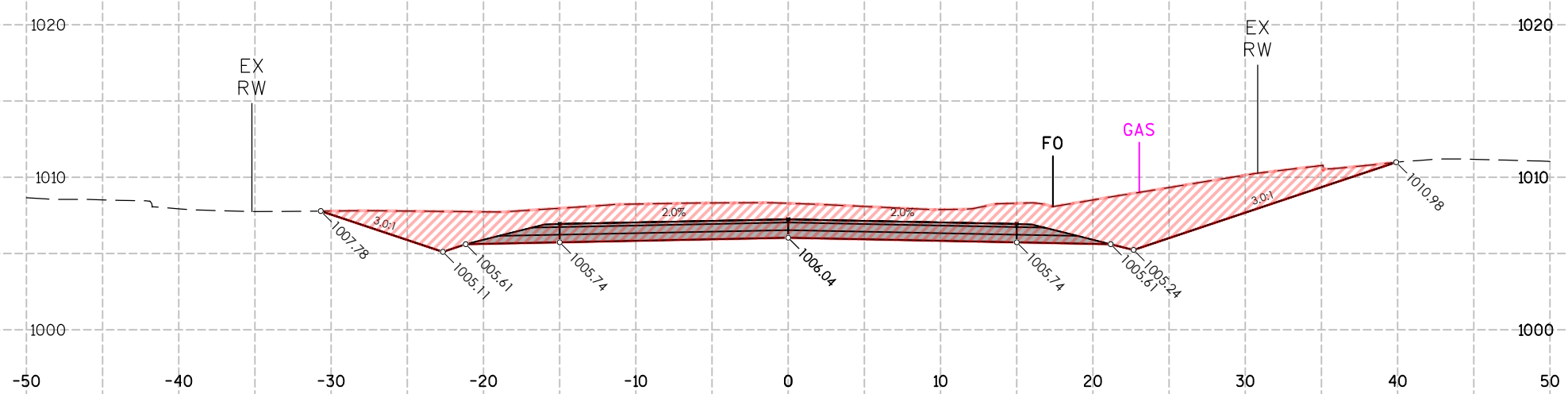
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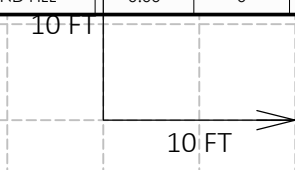
CUT/FILL STA:35+50.00			
ITEM	AREA (SF)	VOL (CY)	CUM. VOL. (CY)
GROUND REMOVED	24.81	90	5,152
GROUND FILL	2.36	2	1,153



CUT/FILL STA:35+00.00			
ITEM	AREA (SF)	VOL (CY)	CUM. VOL. (CY)
GROUND REMOVED	72.39	208	5,062
GROUND FILL	0.00	0	1,151

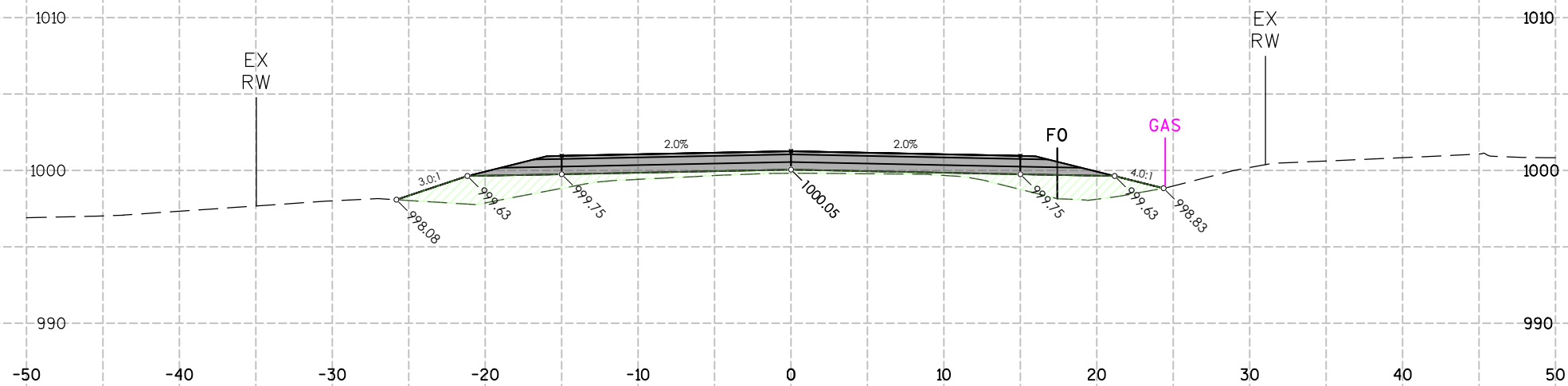


CUT/FILL STA:34+50.00			
ITEM	AREA (SF)	VOL (CY)	CUM. VOL. (CY)
GROUND REMOVED	152.57	270	4,853
GROUND FILL	0.00	0	1,151

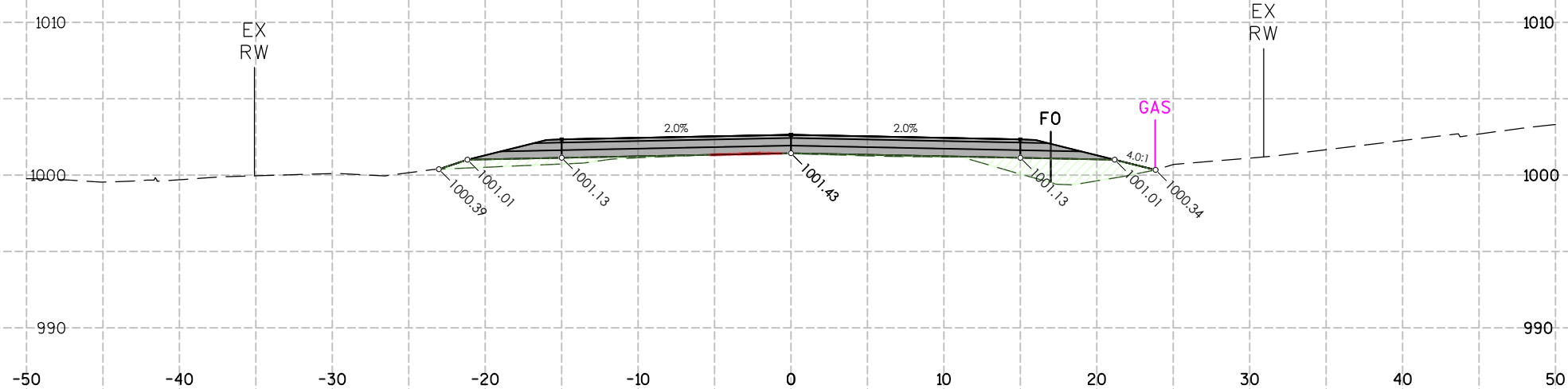


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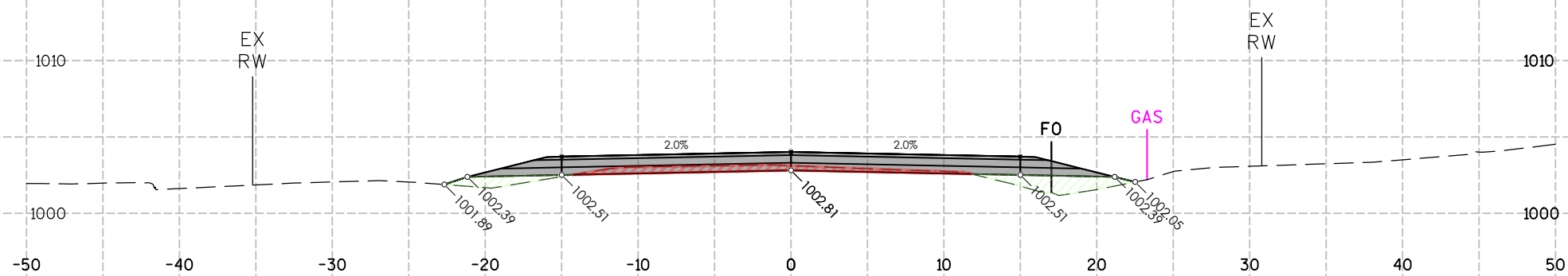
6



CUT/FILL STA:37+00.00			
ITEM	AREA (SF)	VOL (CY)	CUM. VOL. (CY)
GROUND REMOVED	0.00	0	5,189
GROUND FILL	34.39	49	1,242



CUT/FILL STA:36+50.00			
ITEM	AREA (SF)	VOL (CY)	CUM. VOL. (CY)
GROUND REMOVED	0.16	7	5,189
GROUND FILL	18.14	27	1,193



CUT/FILL STA:36+00.00			
ITEM	AREA (SF)	VOL (CY)	CUM. VOL. (CY)
GROUND REMOVED	7.58	30	5,182
GROUND FILL	11.28	13	1,166

PROJECT NO: 18112/39508802306

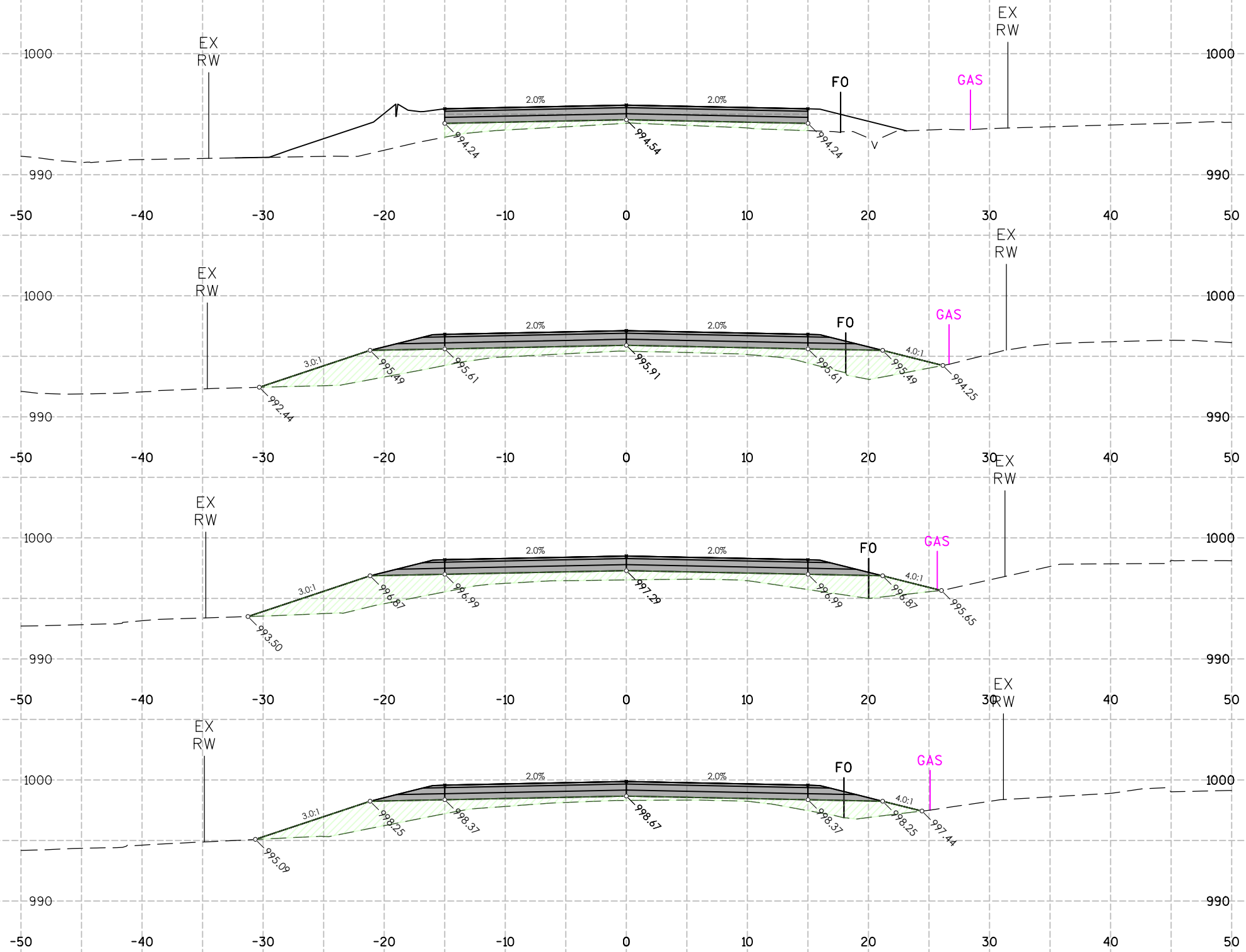
HWY: ELLSWORTH RD

COUNTY: MONROE COUNTY

CROSS SECTIONS: ELLSWORTH RD SECTIONS

SHEET

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**CUT/FILL STA:39+00.00**

ITEM	AREA (SF)	VOL (CY)	CUM. VOL. (CY)
GROUND REMOVED	0.00	0	5,189
GROUND FILL	15.44	71	1,608

**CUT/FILL STA:38+50.00**

ITEM	AREA (SF)	VOL (CY)	CUM. VOL. (CY)
GROUND REMOVED	0.00	0	5,189
GROUND FILL	61.31	117	1,537

**CUT/FILL STA:38+00.00**

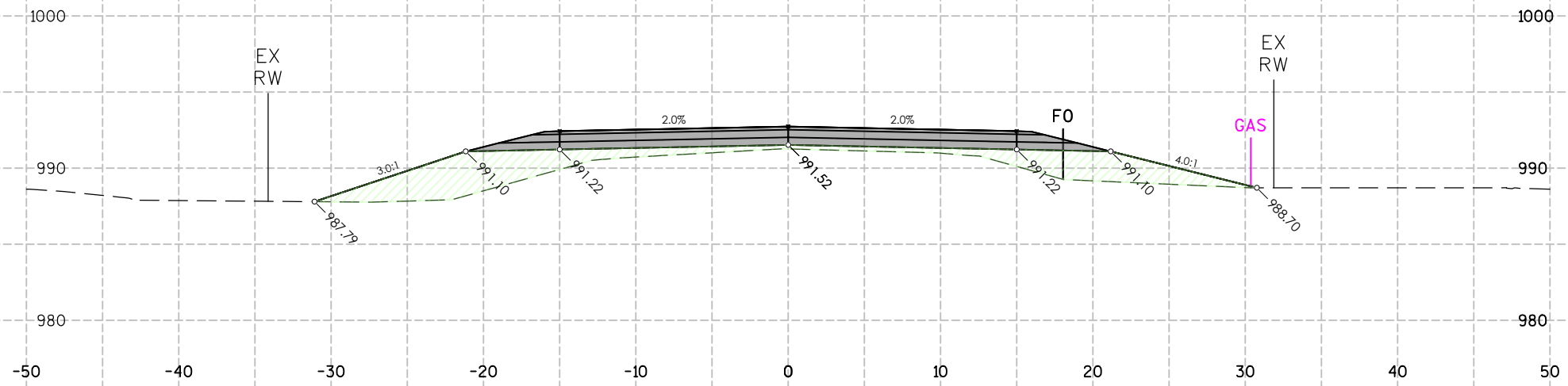
ITEM	AREA (SF)	VOL (CY)	CUM. VOL. (CY)
GROUND REMOVED	0.00	0	5,189
GROUND FILL	65.07	103	1,420

**CUT/FILL STA:37+50.00**

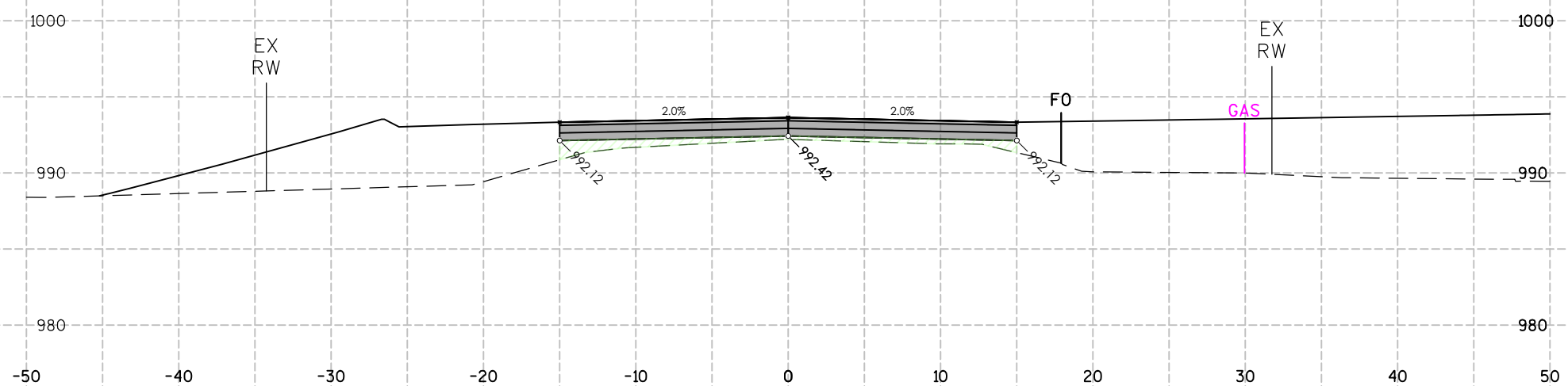
ITEM	AREA (SF)	VOL (CY)	CUM. VOL. (CY)
GROUND REMOVED	0.00	0	5,189
GROUND FILL	46.30	75	1,316

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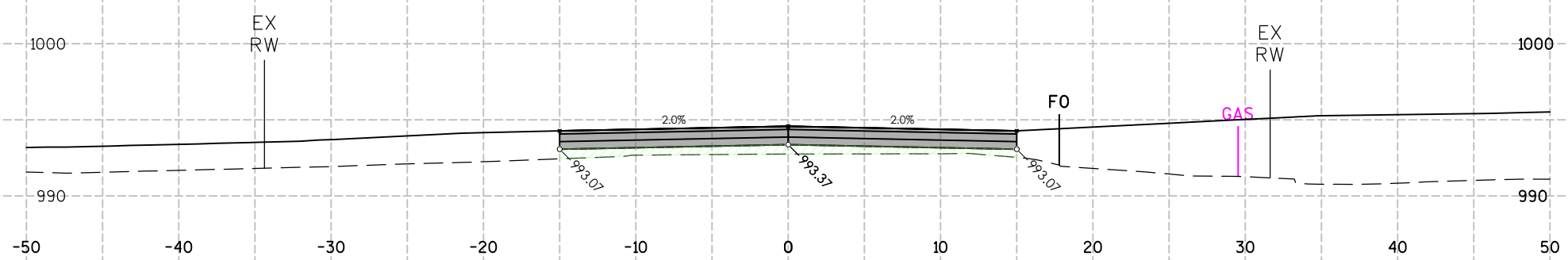
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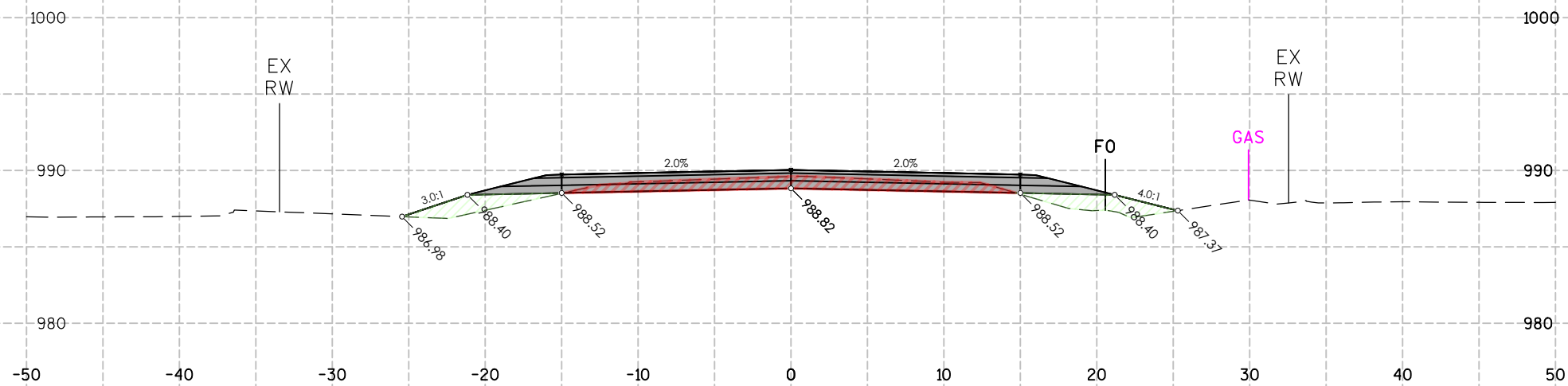
CUT/FILL STA:40+50.00			
ITEM	AREA (SF)	VOL (CY)	CUM. VOL. (CY)
GROUND REMOVED	0.00	0	5,189
GROUND FILL	63.59	70	1,732



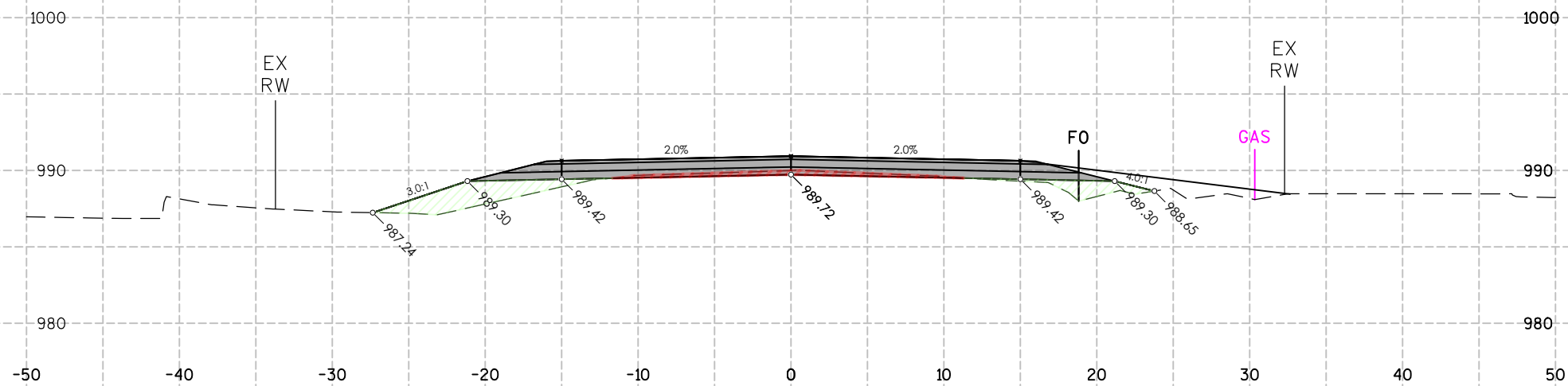
CUT/FILL STA:40+00.00			
ITEM	AREA (SF)	VOL (CY)	CUM. VOL. (CY)
GROUND REMOVED	0.00	0	5,189
GROUND FILL	12.43	26	1,662



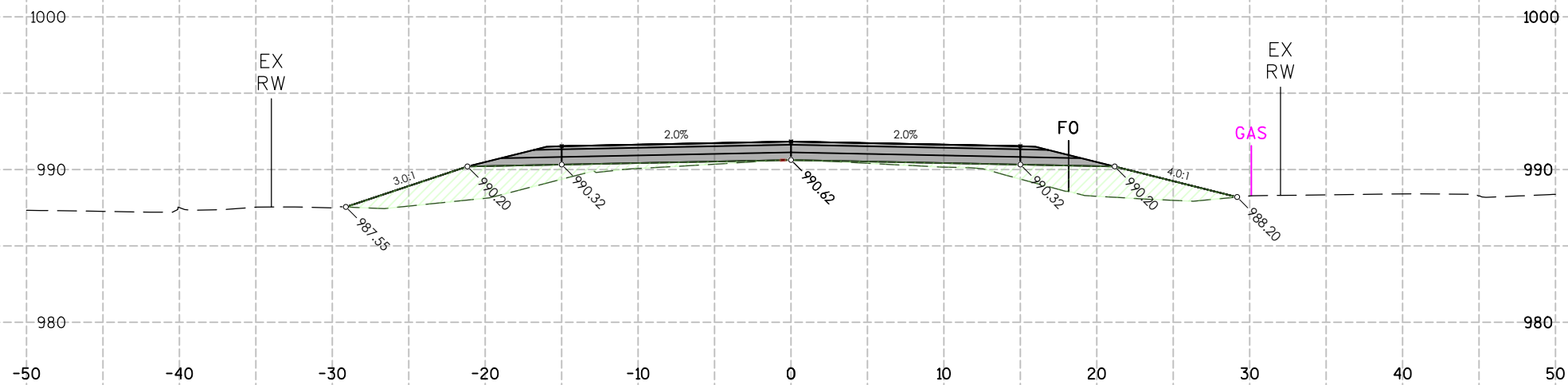
CUT/FILL STA:39+50.00			
ITEM	AREA (SF)	VOL (CY)	CUM. VOL. (CY)
GROUND REMOVED	0.00	0	5,189
GROUND FILL	15.42	29	1,636



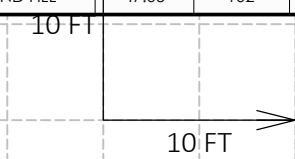
CUT/FILL STA:42+00.00			
ITEM	AREA (SF)	VOL (CY)	CUM. VOL. (CY)
GROUND REMOVED	18.32	21	5,214
GROUND FILL	15.04	32	1,928



CUT/FILL STA:41+50.00			
ITEM	AREA (SF)	VOL (CY)	CUM. VOL. (CY)
GROUND REMOVED	4.17	4	5,193
GROUND FILL	19.42	62	1,896



CUT/FILL STA:41+00.00			
ITEM	AREA (SF)	VOL (CY)	CUM. VOL. (CY)
GROUND REMOVED	0.00	0	5,189
GROUND FILL	47.05	102	1,835

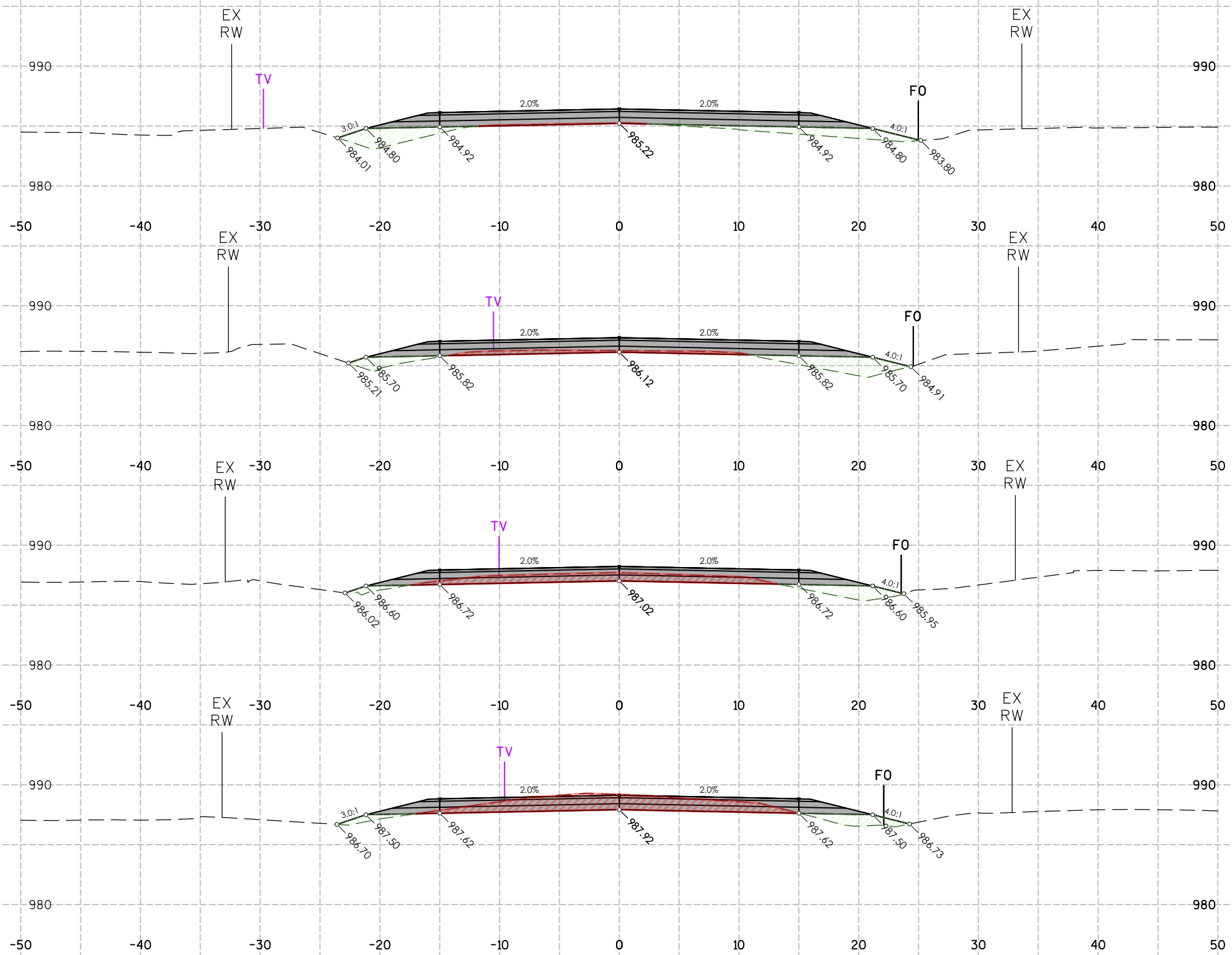


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**CUT/FILL STA:44+00.00**

ITEM	AREA (SF)	VOL (CY)	CUM. VOL. (CY)
GROUND REMOVED	0.61	5	5,326
GROUND FILL	20.10	34	2,021

**CUT/FILL STA:43+50.00**

ITEM	AREA (SF)	VOL (CY)	CUM. VOL. (CY)
GROUND REMOVED	5.19	21	5,321
GROUND FILL	16.16	23	1,987

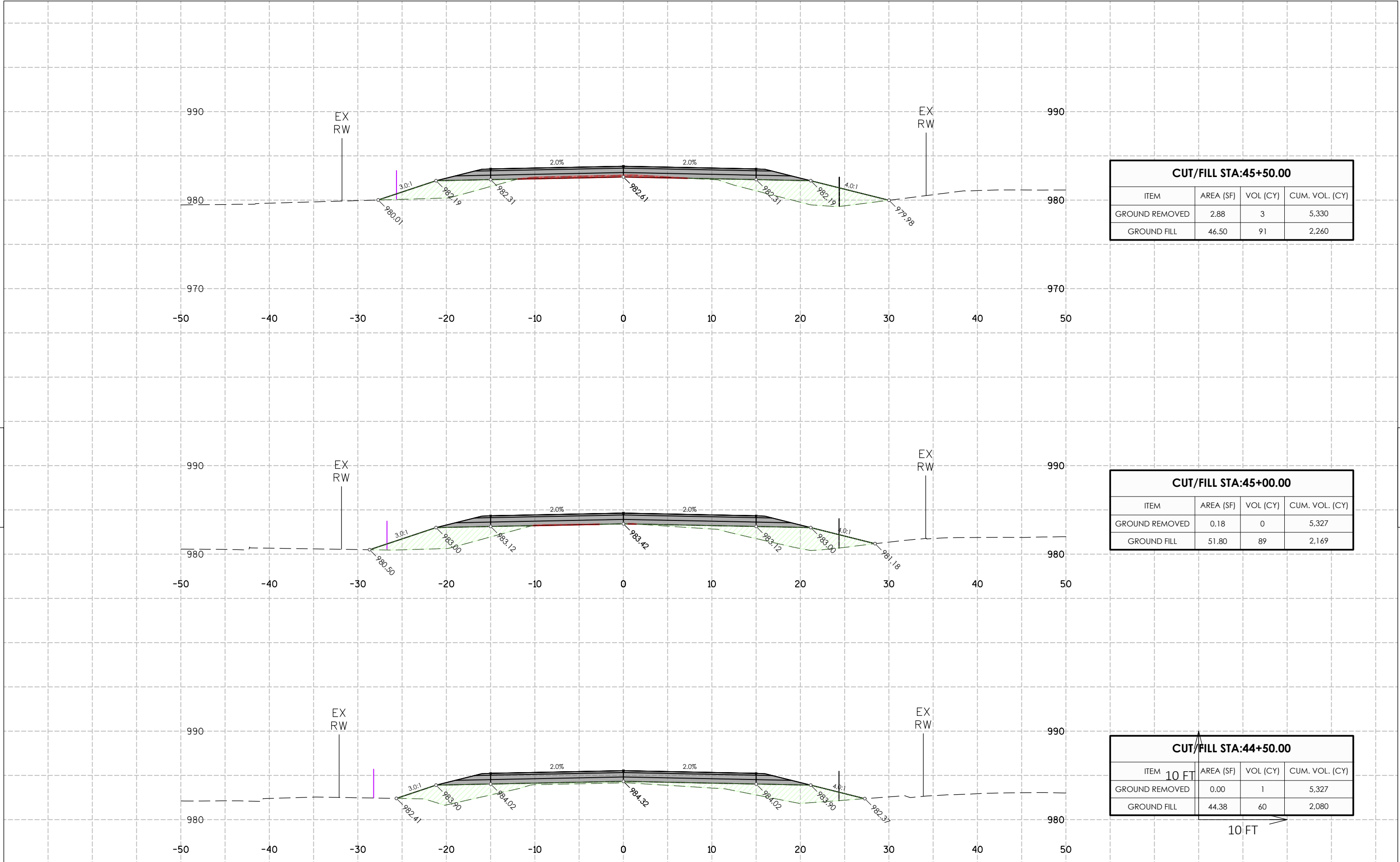
**CUT/FILL STA:43+00.00**

ITEM	AREA (SF)	VOL (CY)	CUM. VOL. (CY)
GROUND REMOVED	17.07	43	5,300
GROUND FILL	8.62	15	1,964

**CUT/FILL STA:42+50.00**

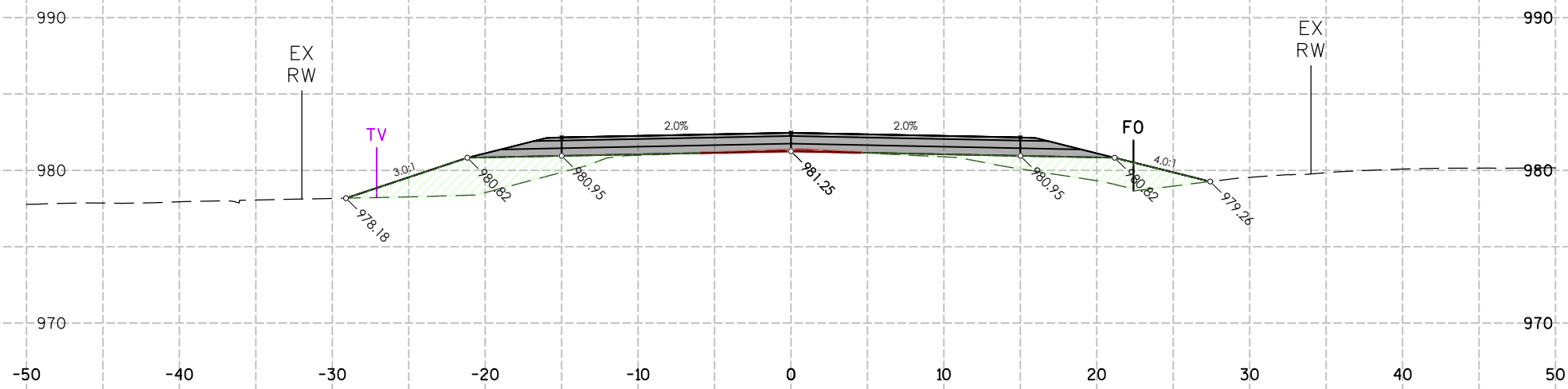
ITEM	AREA (SF)	VOL (CY)	CUM. VOL. (CY)
GROUND REMOVED	28.87	44	5,257
GROUND FILL	7.50	21	1,949



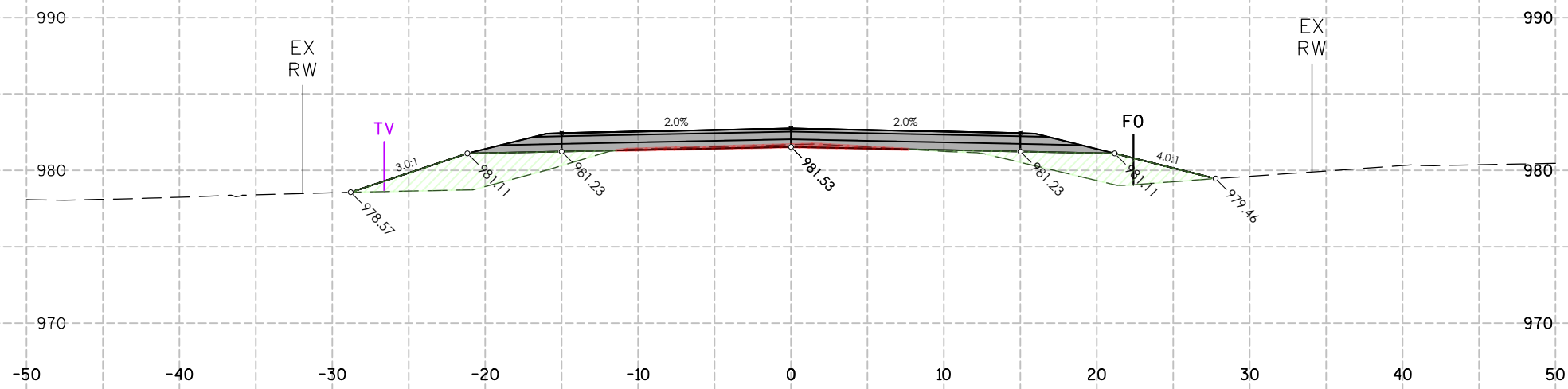


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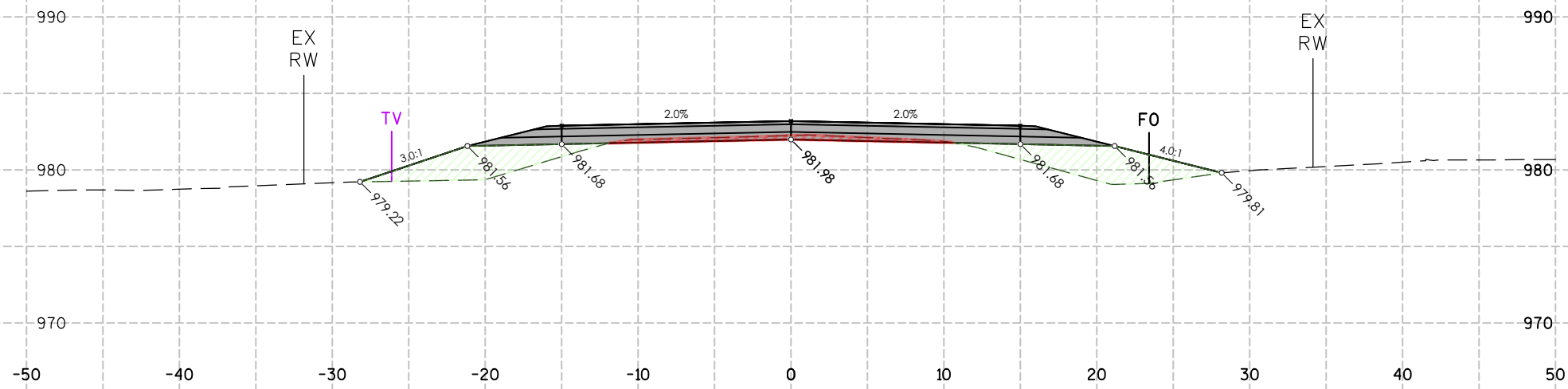
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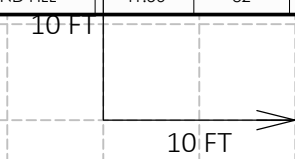
CUT/FILL STA:47+00.00			
ITEM	AREA (SF)	VOL (CY)	CUM. VOL. (CY)
GROUND REMOVED	0.60	3	5,346
GROUND FILL	40.92	73	2,489



CUT/FILL STA:46+50.00			
ITEM	AREA (SF)	VOL (CY)	CUM. VOL. (CY)
GROUND REMOVED	2.18	6	5,343
GROUND FILL	38.17	74	2,416

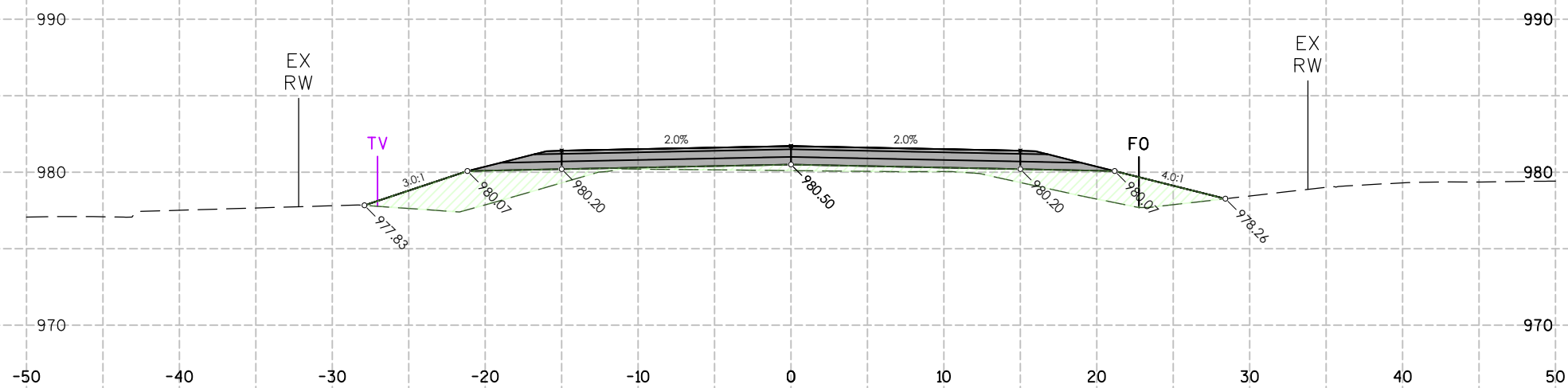


CUT/FILL STA:46+00.00			
ITEM	AREA (SF)	VOL (CY)	CUM. VOL. (CY)
GROUND REMOVED	4.84	7	5,337
GROUND FILL	41.56	82	2,342

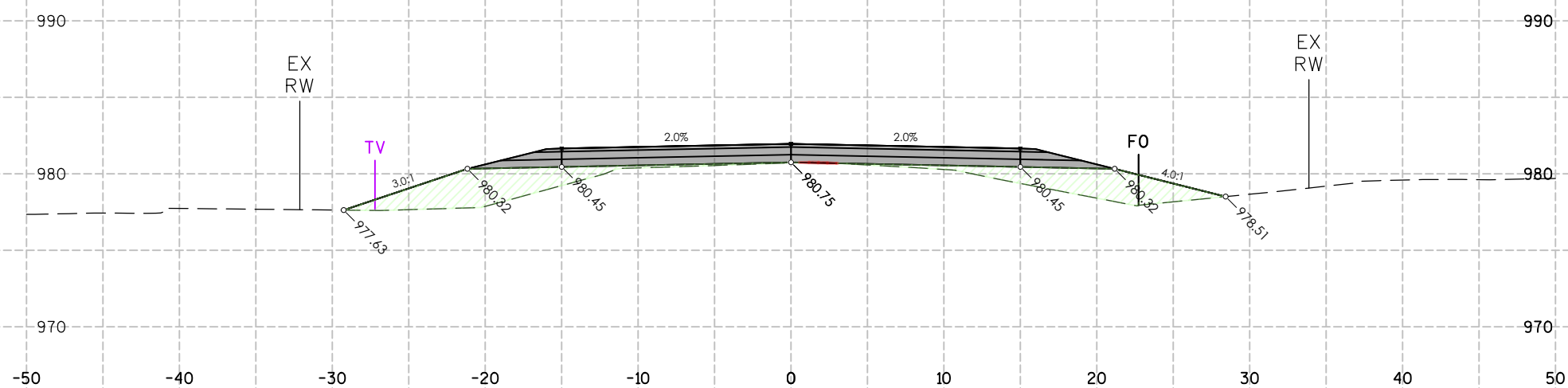


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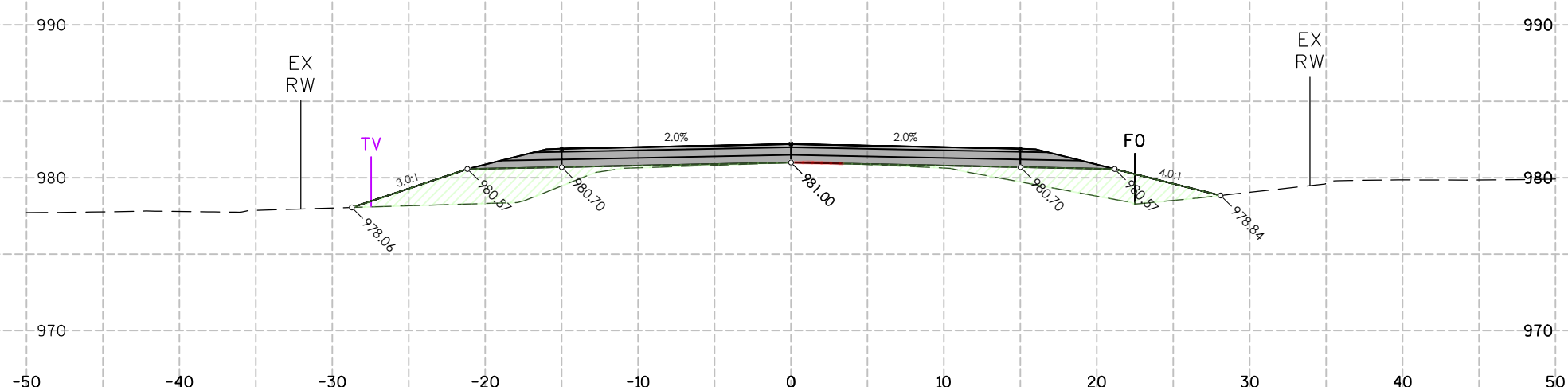
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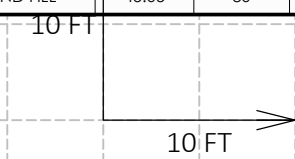
CUT/FILL STA:48+50.00			
ITEM	AREA (SF)	VOL (CY)	CUM. VOL. (CY)
GROUND REMOVED	0.00	0	5.347
GROUND FILL	47.65	90	2.746



CUT/FILL STA:48+00.00			
ITEM	AREA (SF)	VOL (CY)	CUM. VOL. (CY)
GROUND REMOVED	0.07	0	5.347
GROUND FILL	49.65	88	2.656

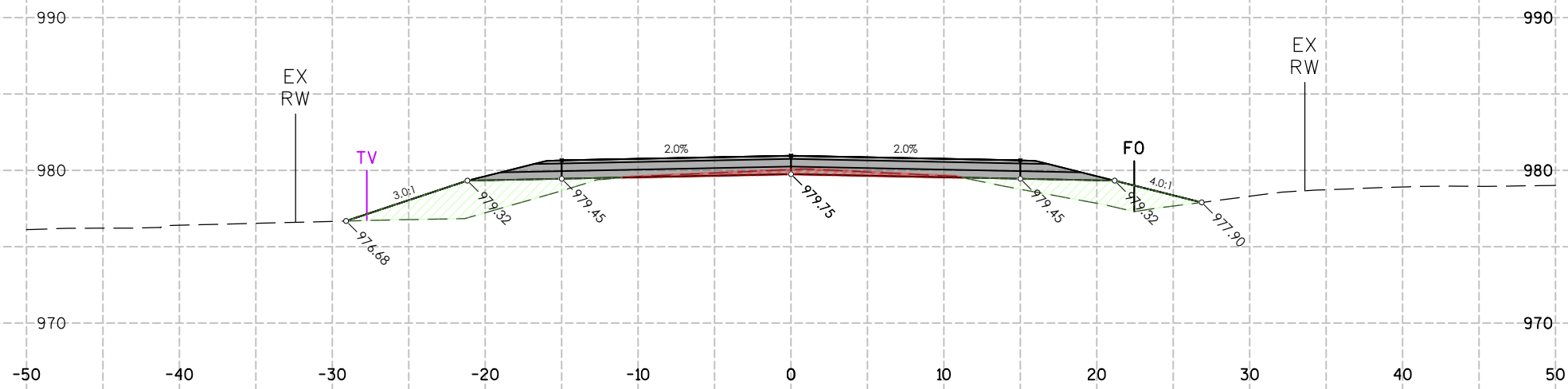


CUT/FILL STA:47+50.00			
ITEM	AREA (SF)	VOL (CY)	CUM. VOL. (CY)
GROUND REMOVED	0.09	1	5.346
GROUND FILL	45.05	80	2.569

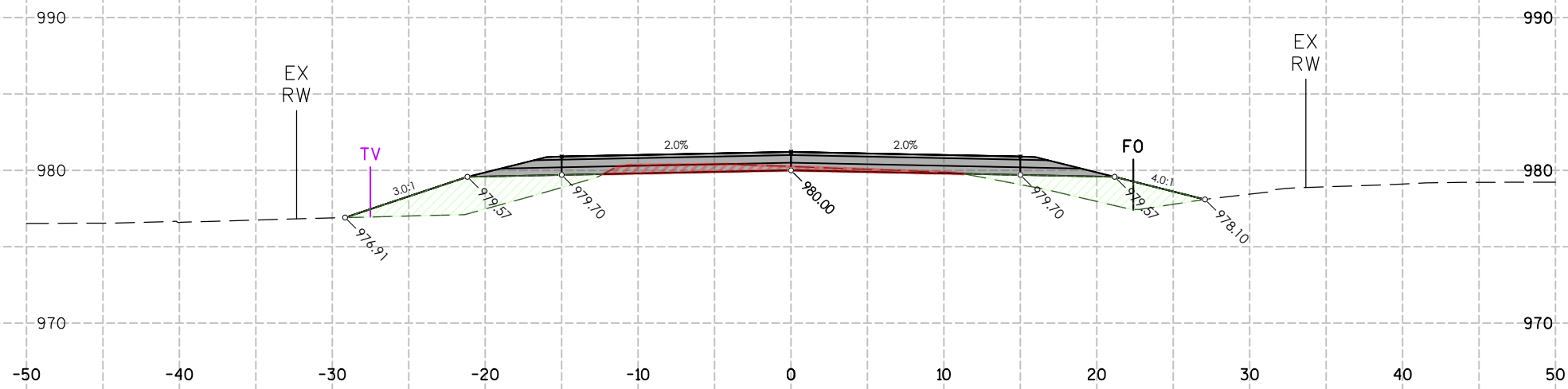


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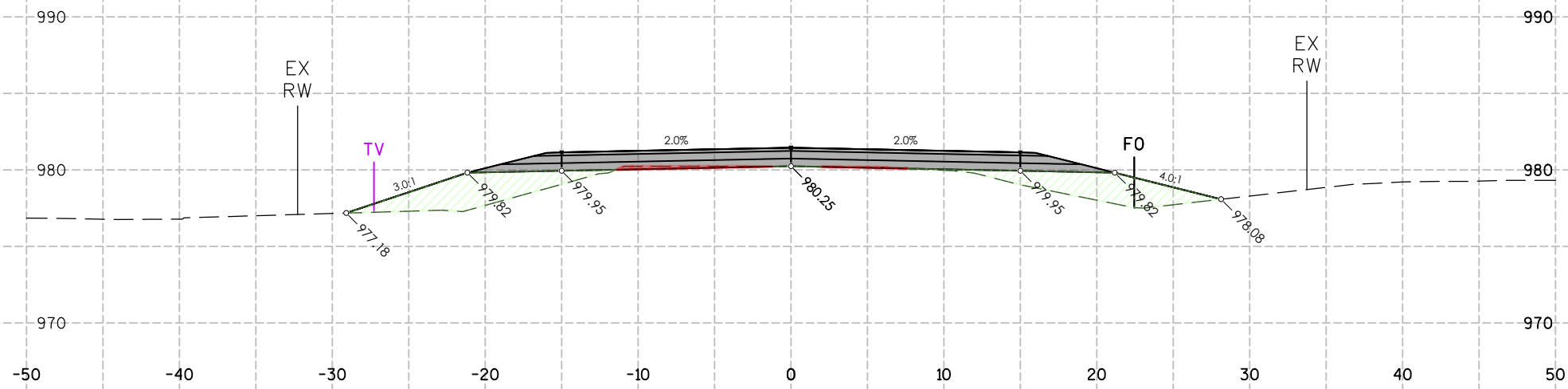
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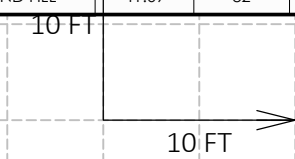
CUT/FILL STA:50+00.00			
ITEM	AREA (SF)	VOL (CY)	CUM. VOL. (CY)
GROUND REMOVED	4.29	11	5.366
GROUND FILL	35.47	67	2.967



CUT/FILL STA:49+50.00			
ITEM	AREA (SF)	VOL (CY)	CUM. VOL. (CY)
GROUND REMOVED	7.27	8	5.356
GROUND FILL	36.55	72	2.900

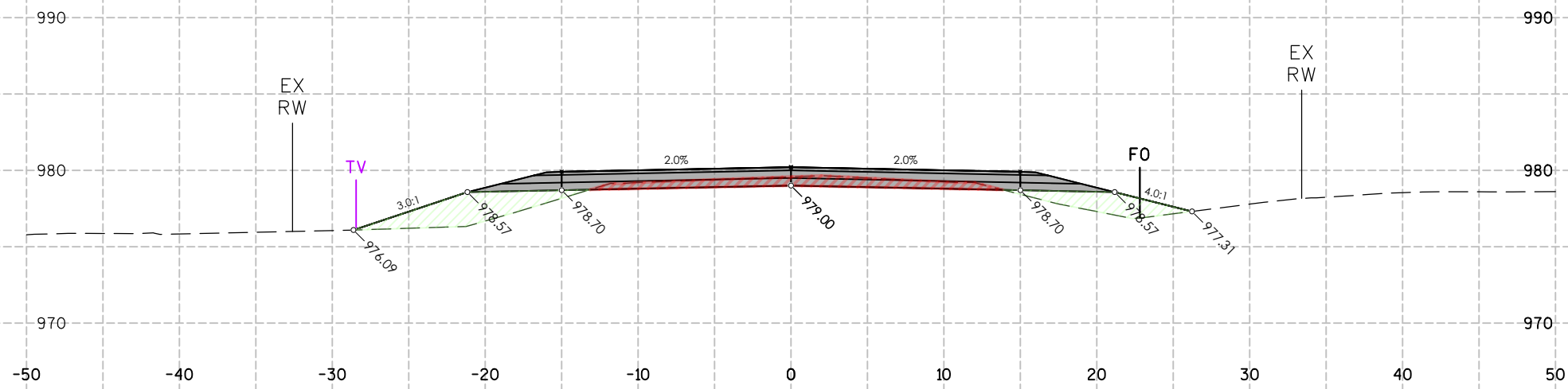


CUT/FILL STA:49+00.00			
ITEM	AREA (SF)	VOL (CY)	CUM. VOL. (CY)
GROUND REMOVED	1.26	1	5.348
GROUND FILL	41.09	82	2.829

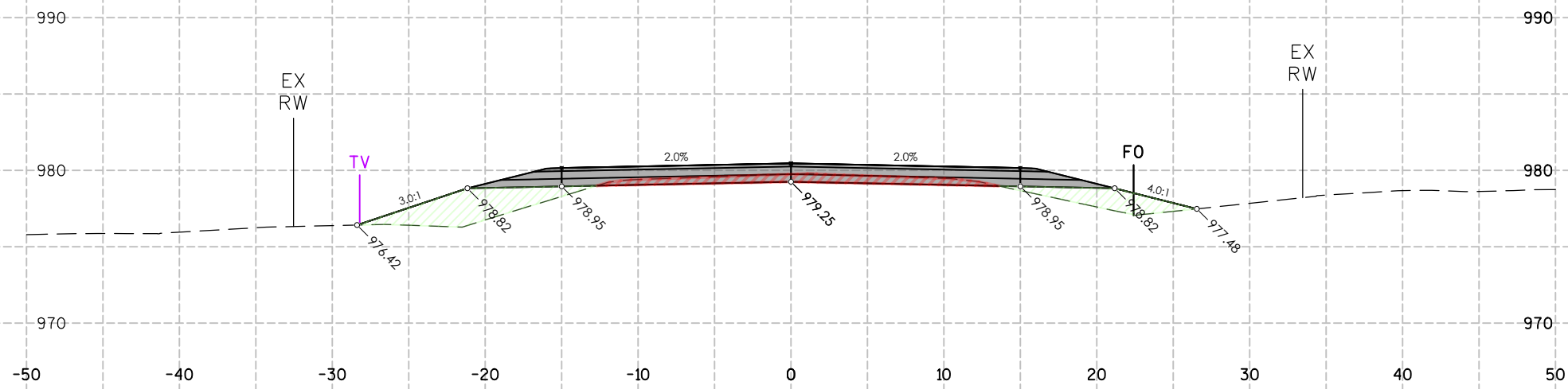


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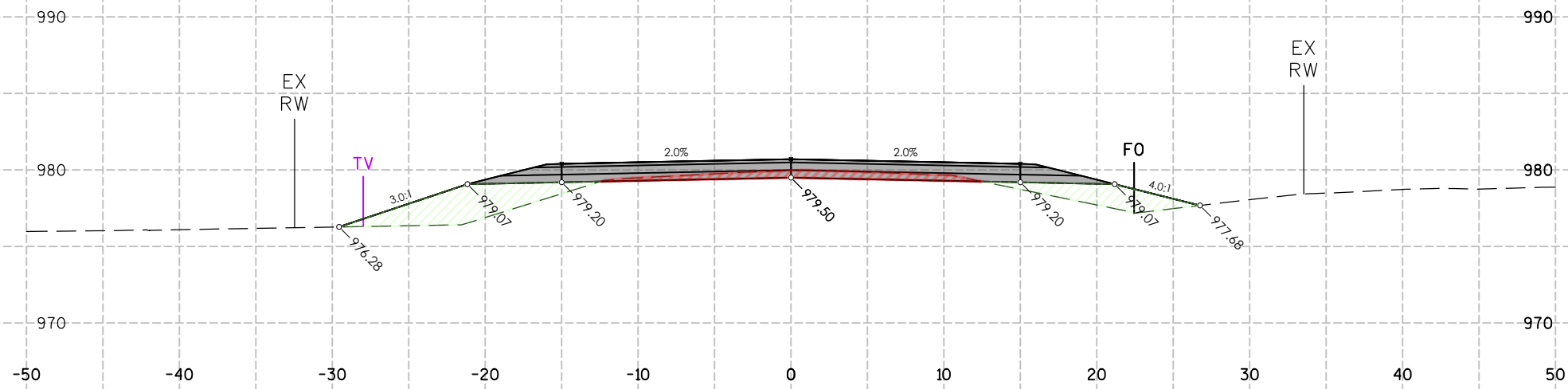
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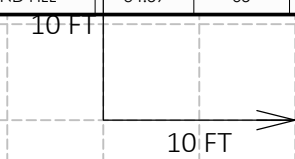
CUT/FILL STA:51+50.00			
ITEM	AREA (SF)	VOL (CY)	CUM. VOL. (CY)
GROUND REMOVED	13.03	22	5,419
GROUND FILL	27.85	53	3,144



CUT/FILL STA:51+00.00			
ITEM	AREA (SF)	VOL (CY)	CUM. VOL. (CY)
GROUND REMOVED	10.88	18	5,397
GROUND FILL	29.51	59	3,091

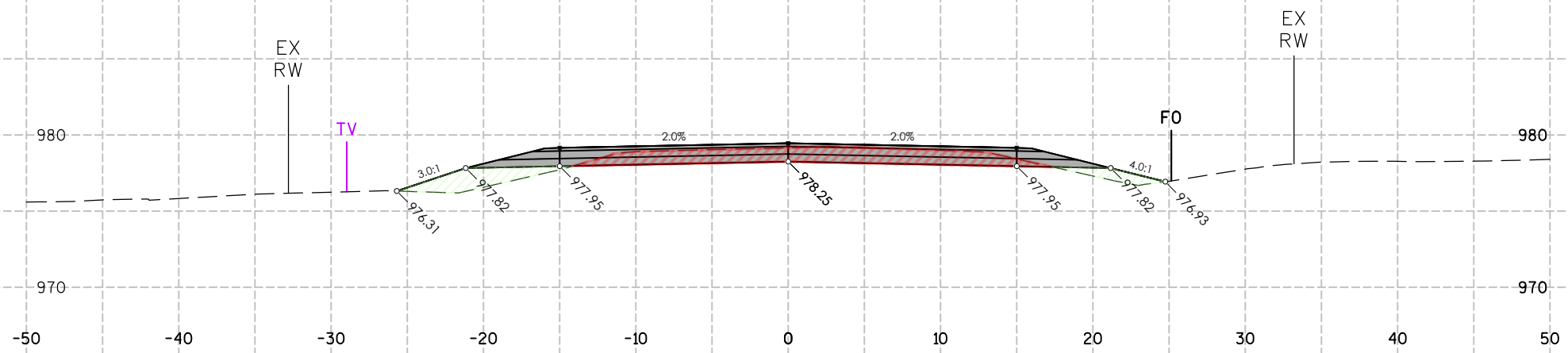


CUT/FILL STA:50+50.00			
ITEM	AREA (SF)	VOL (CY)	CUM. VOL. (CY)
GROUND REMOVED	8.83	12	5,379
GROUND FILL	34.59	65	3,032

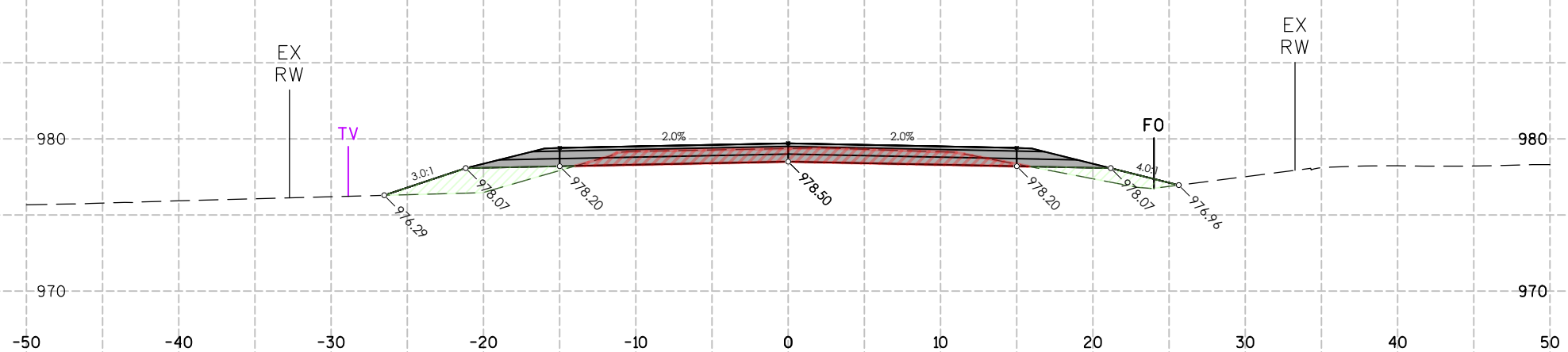


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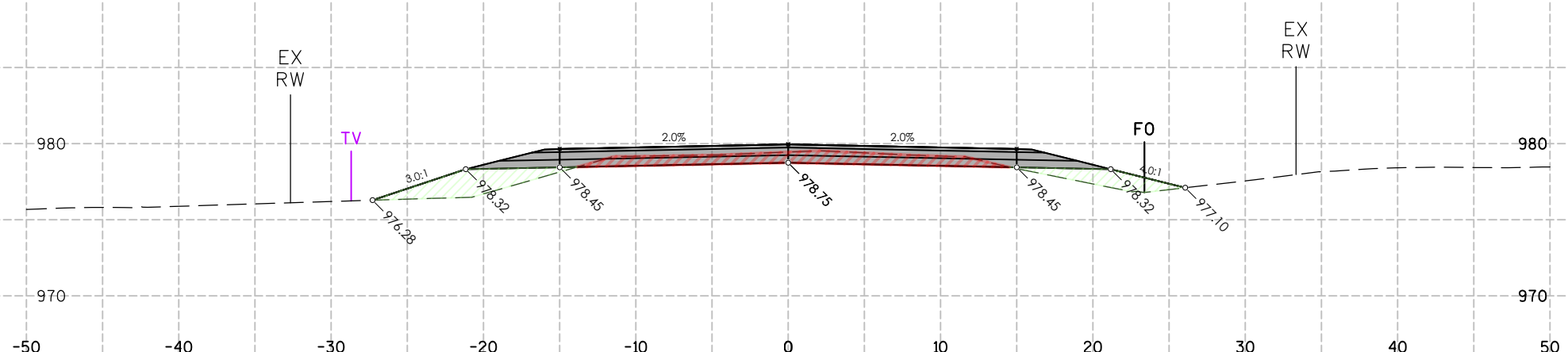
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CUT/FILL STA:53+00.00			
ITEM	AREA (SF)	VOL (CY)	CUM. VOL. (CY)
GROUND REMOVED	25.63	45	5,529
GROUND FILL	12.65	27	3,251



CUT/FILL STA:52+50.00			
ITEM	AREA (SF)	VOL (CY)	CUM. VOL. (CY)
GROUND REMOVED	22.79	37	5,484
GROUND FILL	16.44	34	3,224

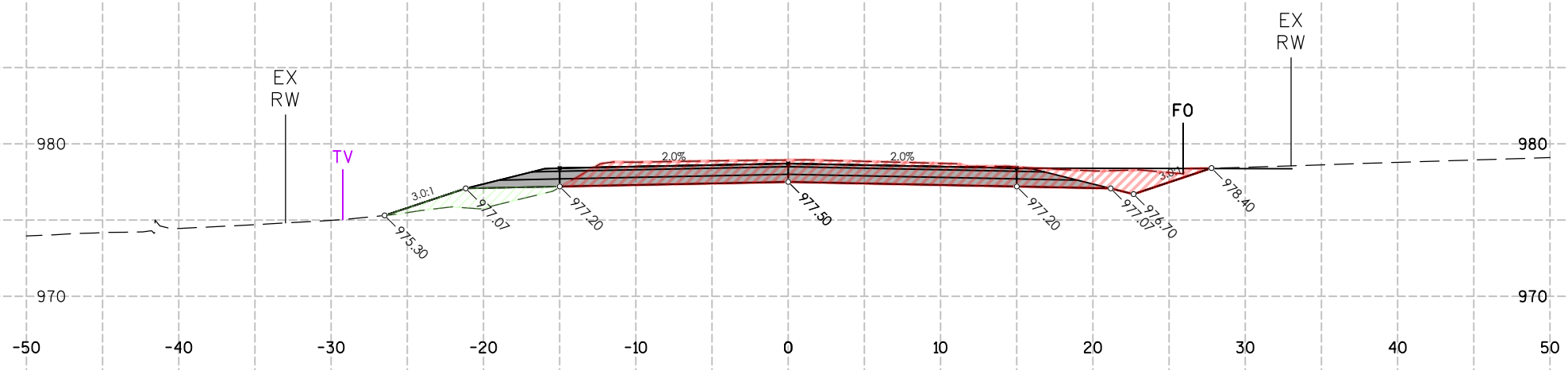


CUT/FILL STA:52+00.00			
ITEM	AREA (SF)	VOL (CY)	CUM. VOL. (CY)
GROUND REMOVED	17.27	28	5,447
GROUND FILL	20.63	45	3,189

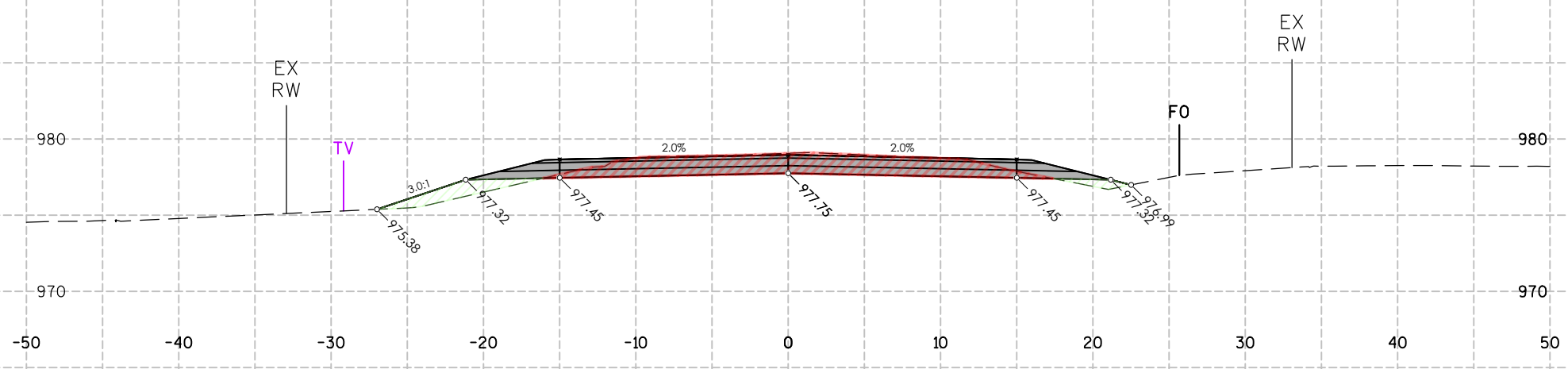
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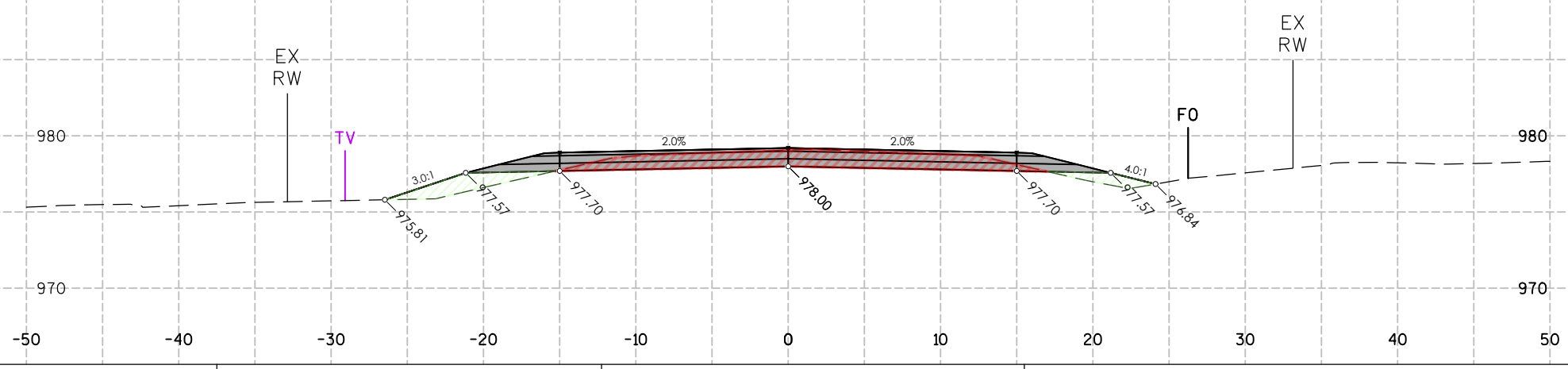
10 FT



CUT/FILL STA:54+50.00			
ITEM	AREA (SF)	VOL (CY)	CUM. VOL. (CY)
GROUND REMOVED	54.21	82	5,719
GROUND FILL	8.28	15	3,306



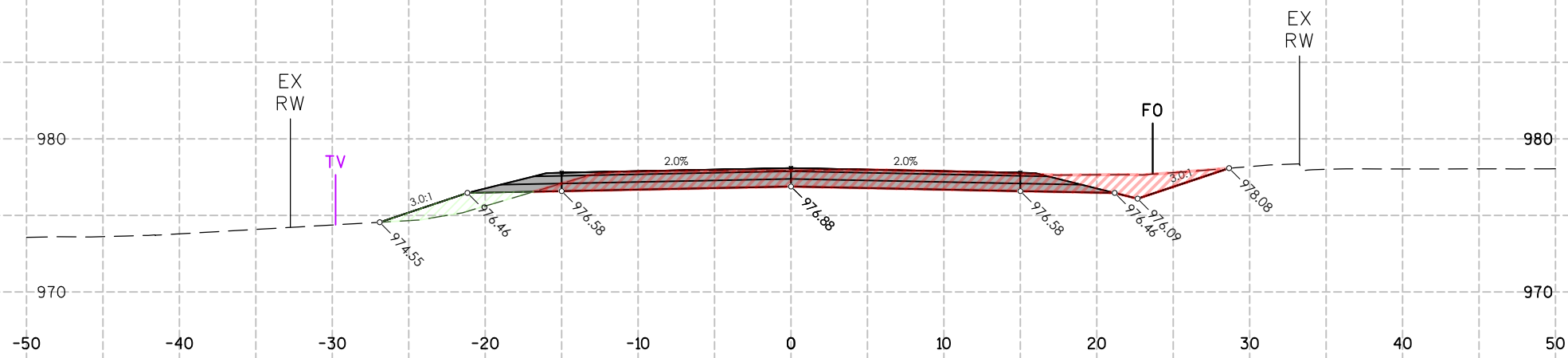
CUT/FILL STA:54+00.00			
ITEM	AREA (SF)	VOL (CY)	CUM. VOL. (CY)
GROUND REMOVED	34.50	58	5,637
GROUND FILL	8.32	18	3,290



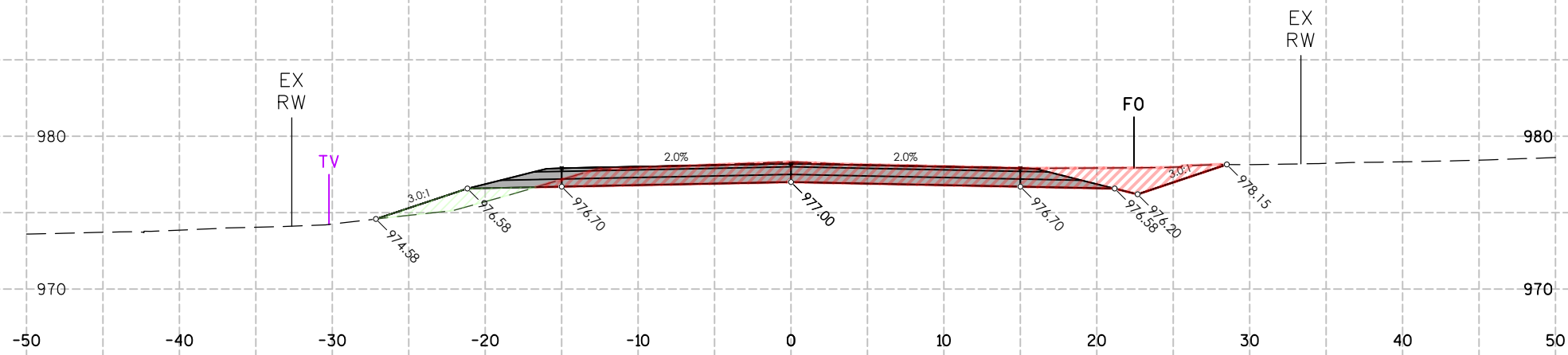
CUT/FILL STA:53+50.00			
ITEM	AREA (SF)	VOL (CY)	CUM. VOL. (CY)
GROUND REMOVED	28.07	50	5,579
GROUND FILL	10.94	22	3,272

6

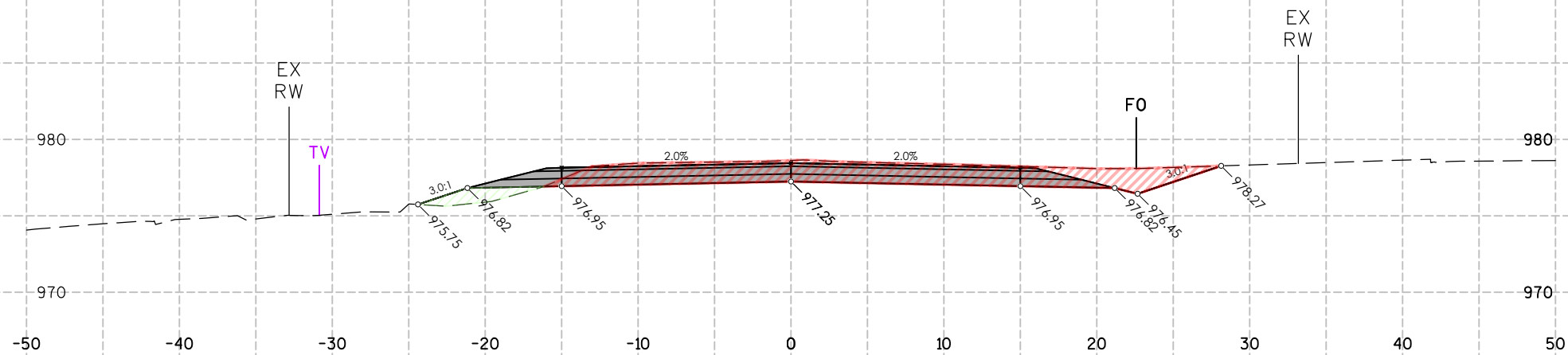
6



CUT/FILL STA:56+00.00			
ITEM	AREA (SF)	VOL (CY)	CUM. VOL. (CY)
GROUND REMOVED	47.69	92	6,009
GROUND FILL	6.61	12	3,341



CUT/FILL STA:55+50.00			
ITEM	AREA (SF)	VOL (CY)	CUM. VOL. (CY)
GROUND REMOVED	51.48	98	5,917
GROUND FILL	6.60	11	3,329



CUT/FILL STA:55+00.00			
ITEM	AREA (SF)	VOL (CY)	CUM. VOL. (CY)
GROUND REMOVED	54.49	101	5,819
GROUND FILL	5.02	12	3,318

PROJECT NO: 18112/39508802306

HWY: ELLSWORTH RD

COUNTY: MONROE COUNTY

CROSS SECTIONS: ELLSWORTH RD SECTIONS

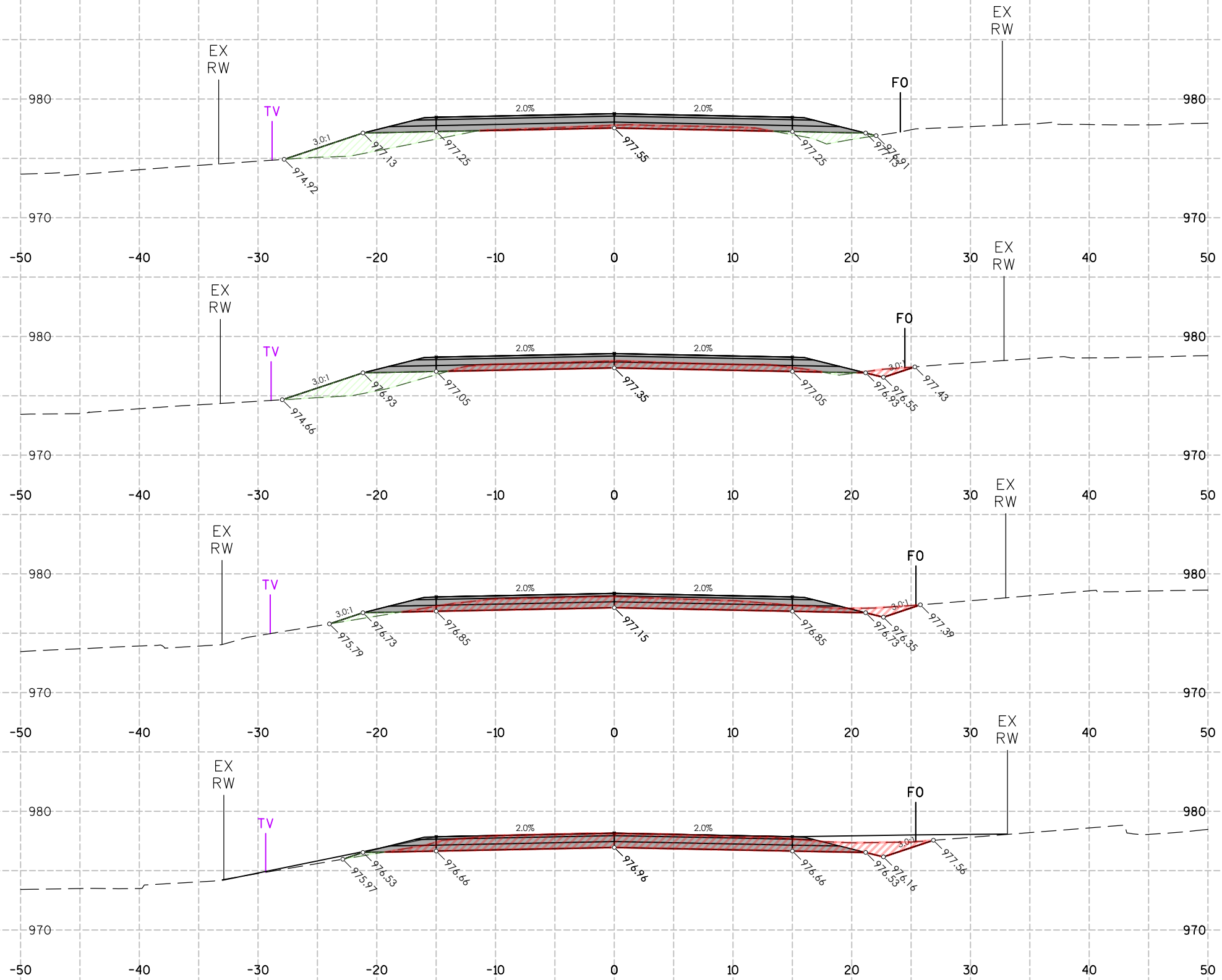
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**CUT/FILL STA:58+00.00**

ITEM	AREA (SF)	VOL (CY)	CUM. VOL. (CY)
GROUND REMOVED	4.98	20	6.228
GROUND FILL	18.59	30	3.393

**CUT/FILL STA:57+50.00**

ITEM	AREA (SF)	VOL (CY)	CUM. VOL. (CY)
GROUND REMOVED	16.52	43	6.208
GROUND FILL	13.34	14	3.363

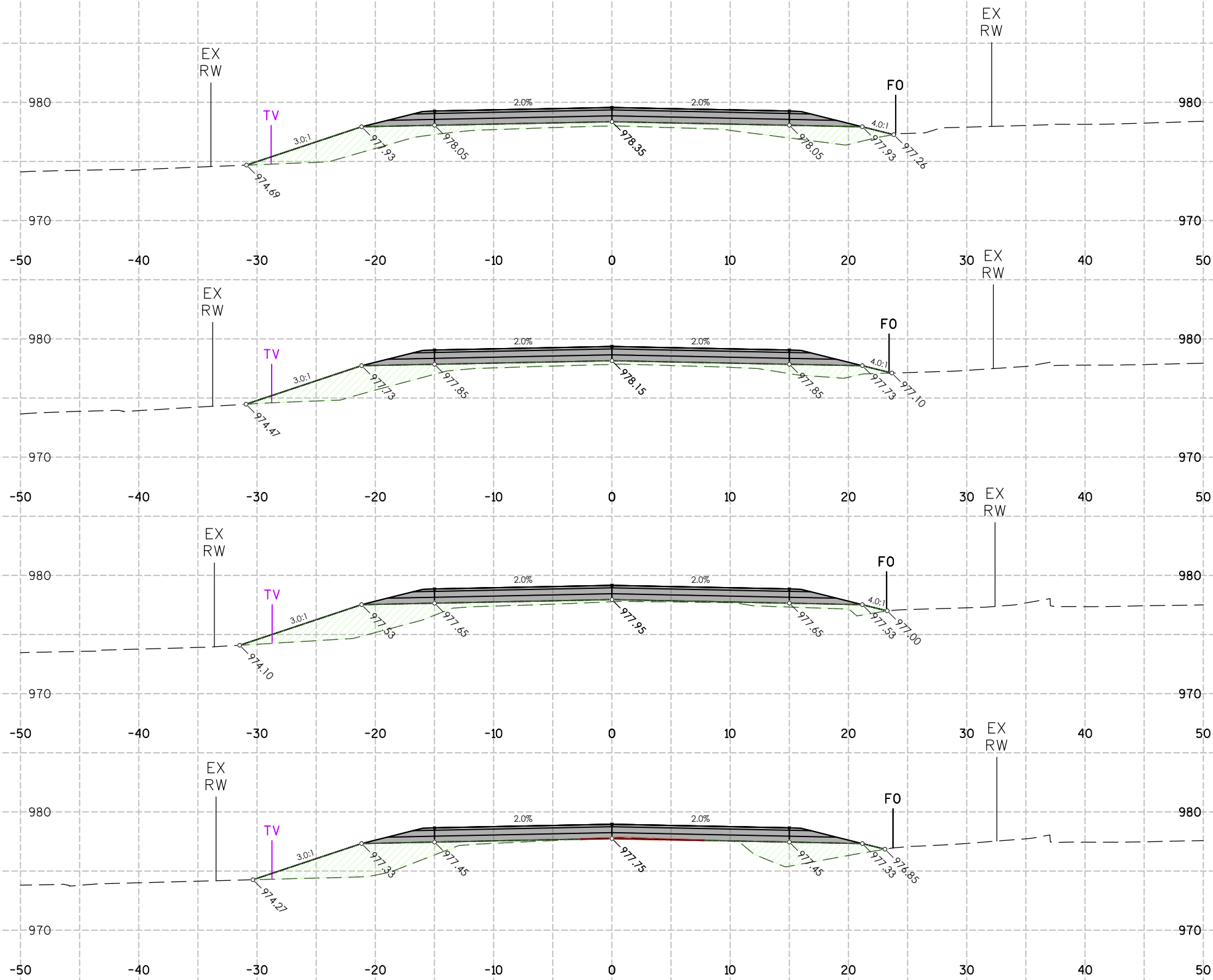
**CUT/FILL STA:57+00.00**

ITEM	AREA (SF)	VOL (CY)	CUM. VOL. (CY)
GROUND REMOVED	29.94	70	6.165
GROUND FILL	1.46	2	3.349

**CUT/FILL STA:56+50.00**

ITEM	AREA (SF)	VOL (CY)	CUM. VOL. (CY)
GROUND REMOVED	45.13	86	6.095
GROUND FILL	0.50	7	3.348

10 FT



**CUT/FILL STA:60+00.00**

ITEM	AREA (SF)	VOL (CY)	CUM. VOL. (CY)
GROUND REMOVED	0.00	0	6,233
GROUND FILL	45.89	81	3,680

**CUT/FILL STA:59+50.00**

ITEM	AREA (SF)	VOL (CY)	CUM. VOL. (CY)
GROUND REMOVED	0.00	0	6,233
GROUND FILL	41.68	73	3,599

**CUT/FILL STA:59+00.00**

ITEM	AREA (SF)	VOL (CY)	CUM. VOL. (CY)
GROUND REMOVED	0.00	0	6,233
GROUND FILL	37.22	75	3,526

**CUT/FILL STA:58+50.00**

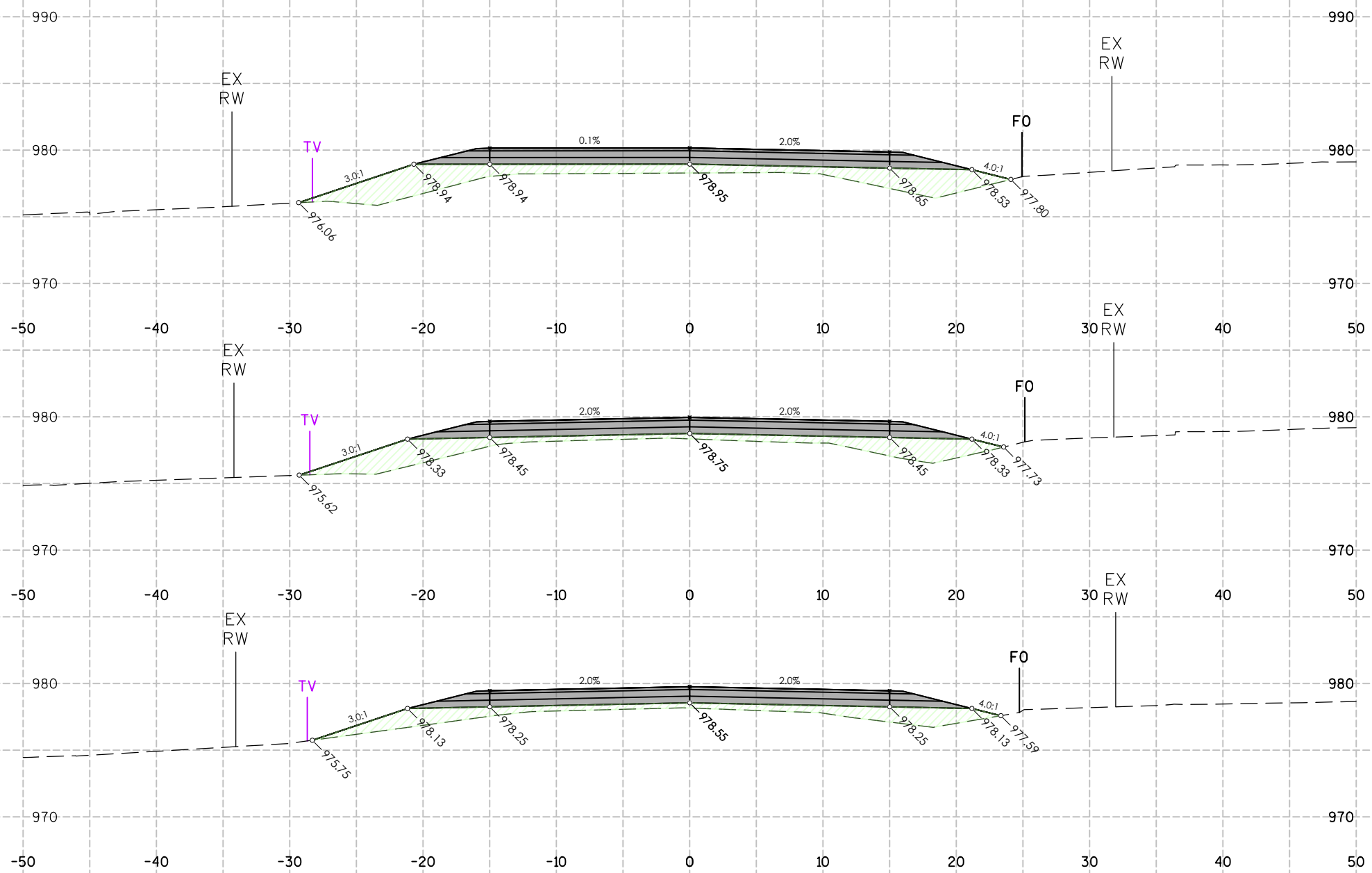
ITEM	AREA (SF)	VOL (CY)	CUM. VOL. (CY)
GROUND REMOVED	0.51	5	6,233
GROUND FILL	44.28	58	3,451

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**CUT/FILL STA:61+50.00**

ITEM	AREA (SF)	VOL (CY)	CUM. VOL. (CY)
GROUND REMOVED	0.00	0	6,233
GROUND FILL	56.48	93	3,923

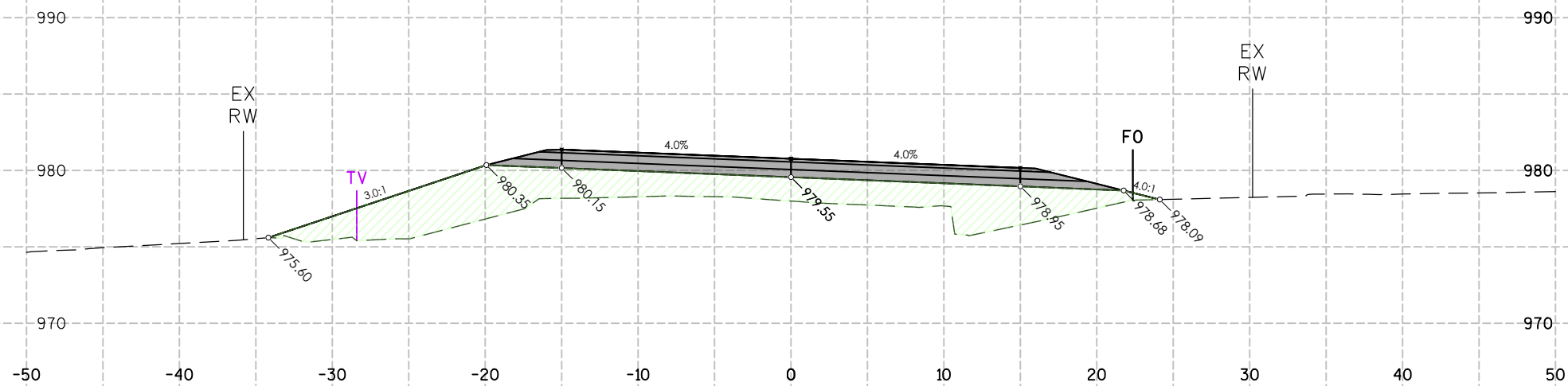
**CUT/FILL STA:61+00.00**

ITEM	AREA (SF)	VOL (CY)	CUM. VOL. (CY)
GROUND REMOVED	0.00	0	6,233
GROUND FILL	44.31	74	3,830

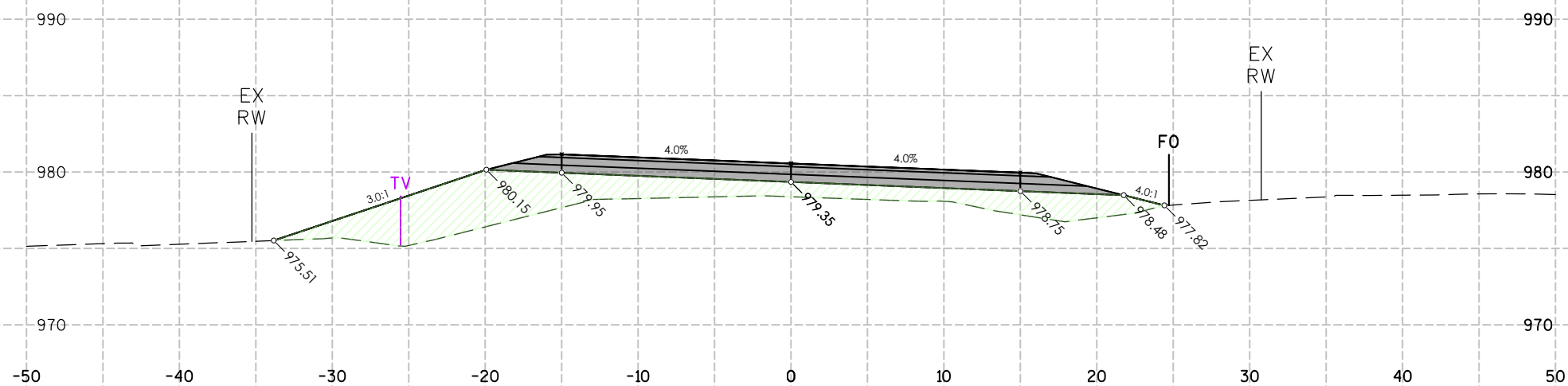
**CUT/FILL STA:60+50.00**

ITEM	AREA (SF)	VOL (CY)	CUM. VOL. (CY)
GROUND REMOVED	0.00	0	6,233
GROUND FILL	35.75	76	3,756

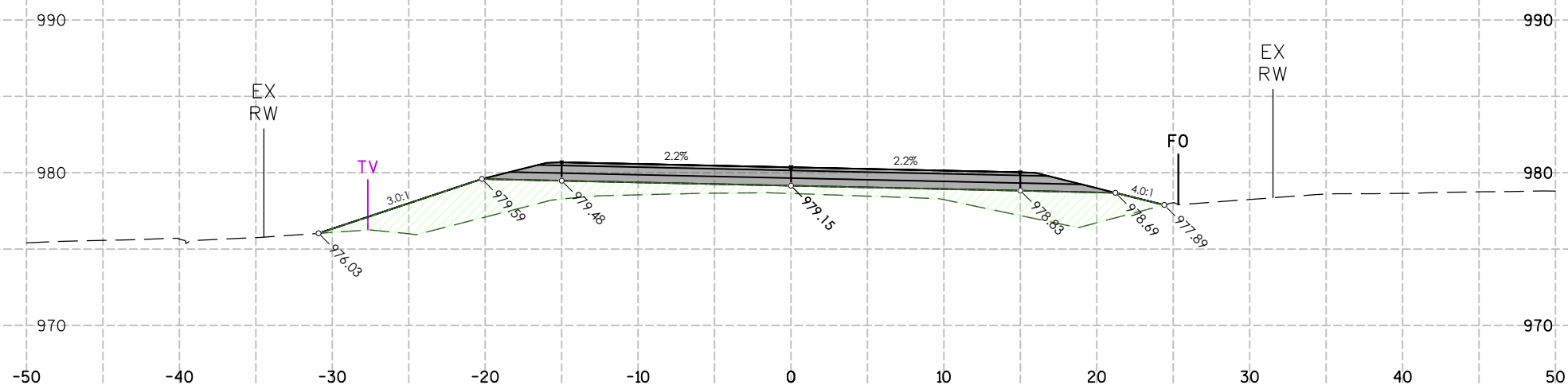
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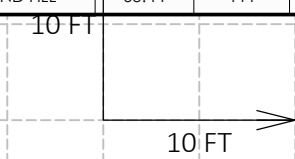
CUT/FILL STA:63+00.00			
ITEM	AREA (SF)	VOL (CY)	CUM. VOL. (CY)
GROUND REMOVED	0.00	0	6,233
GROUND FILL	111.64	193	4,375



CUT/FILL STA:62+50.00			
ITEM	AREA (SF)	VOL (CY)	CUM. VOL. (CY)
GROUND REMOVED	0.00	0	6,233
GROUND FILL	94.62	147	4,182

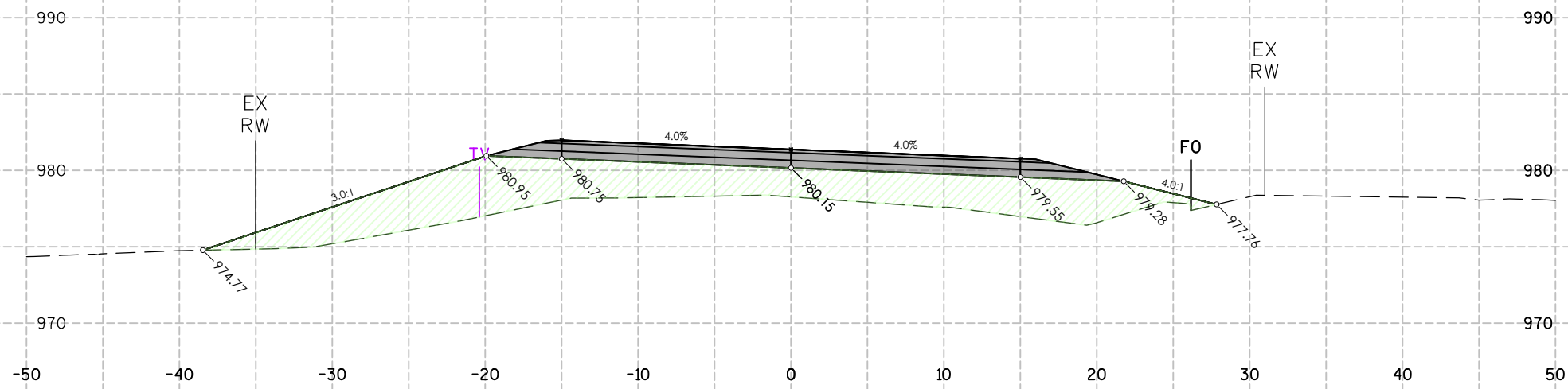


CUT/FILL STA:62+00.00			
ITEM	AREA (SF)	VOL (CY)	CUM. VOL. (CY)
GROUND REMOVED	0.00	0	6,233
GROUND FILL	63.44	111	4,035

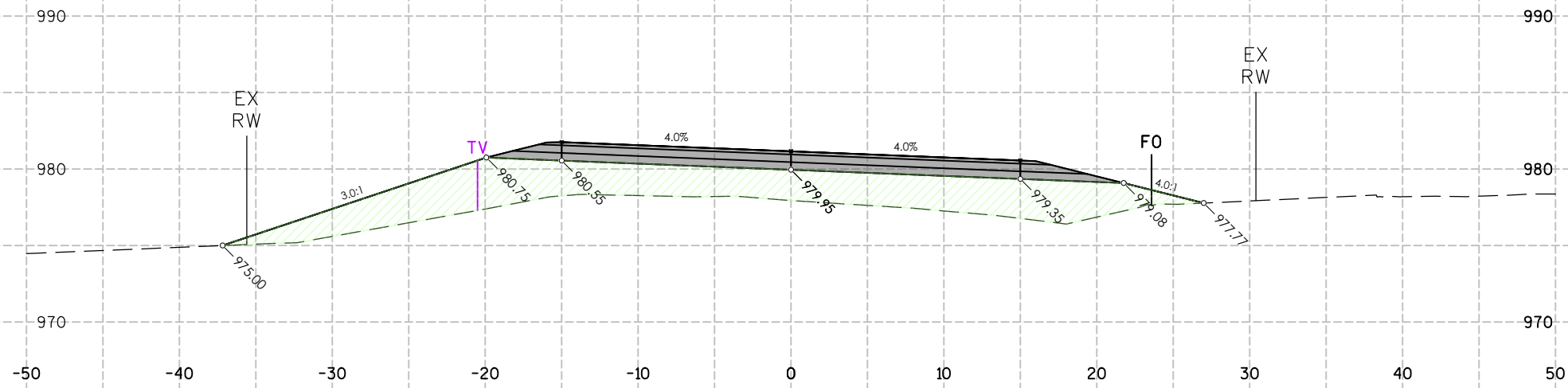


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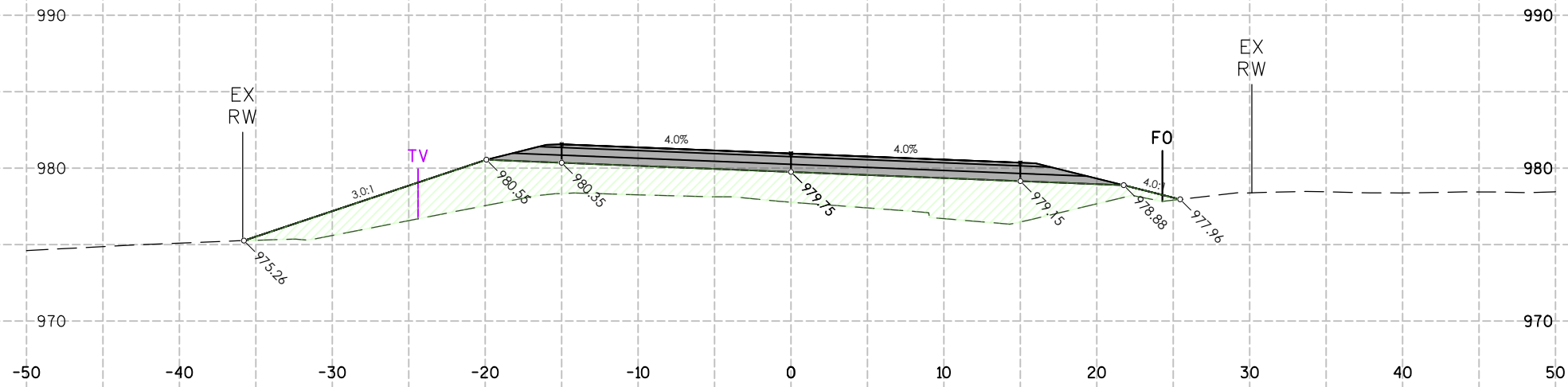
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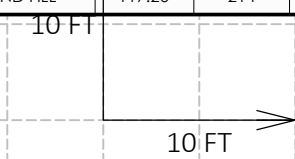
CUT/FILL STA:64+50.00			
ITEM	AREA (SF)	VOL (CY)	CUM. VOL. (CY)
GROUND REMOVED	0.00	0	6.233
GROUND FILL	148.06	261	5.083



CUT/FILL STA:64+00.00			
ITEM	AREA (SF)	VOL (CY)	CUM. VOL. (CY)
GROUND REMOVED	0.00	0	6.233
GROUND FILL	131.99	232	4.821

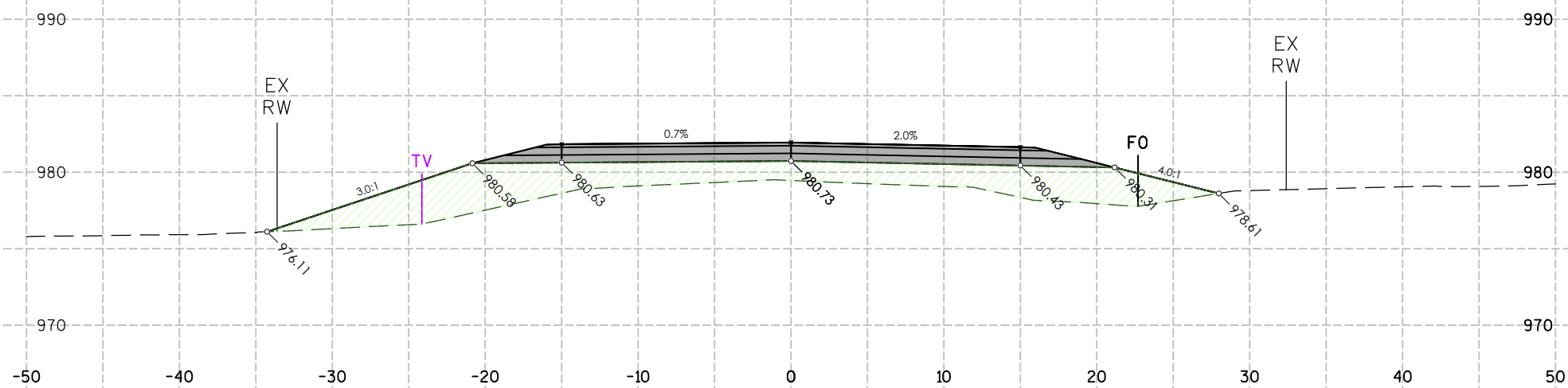


CUT/FILL STA:63+50.00			
ITEM	AREA (SF)	VOL (CY)	CUM. VOL. (CY)
GROUND REMOVED	0.00	0	6.233
GROUND FILL	117.26	214	4.589

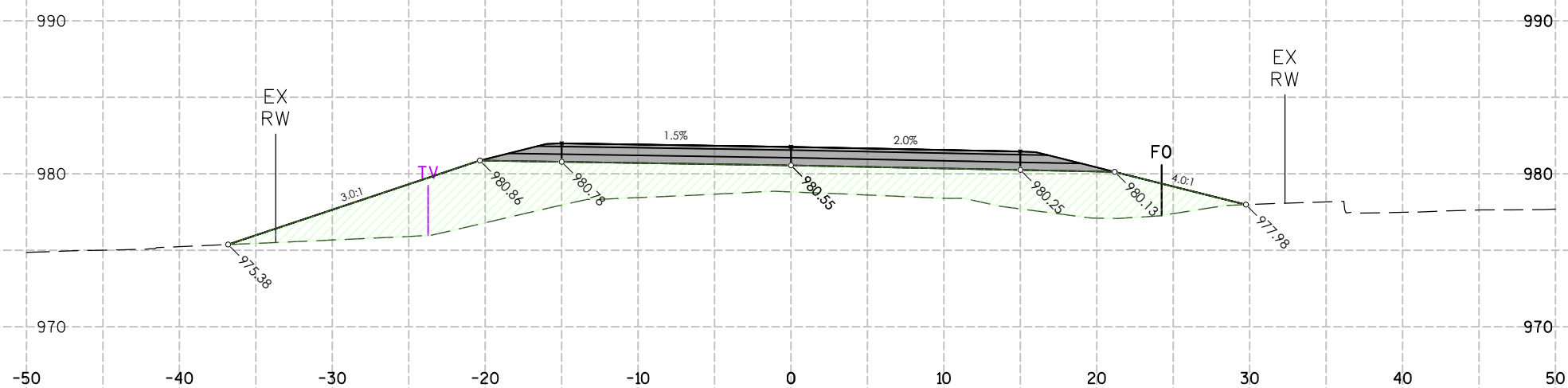


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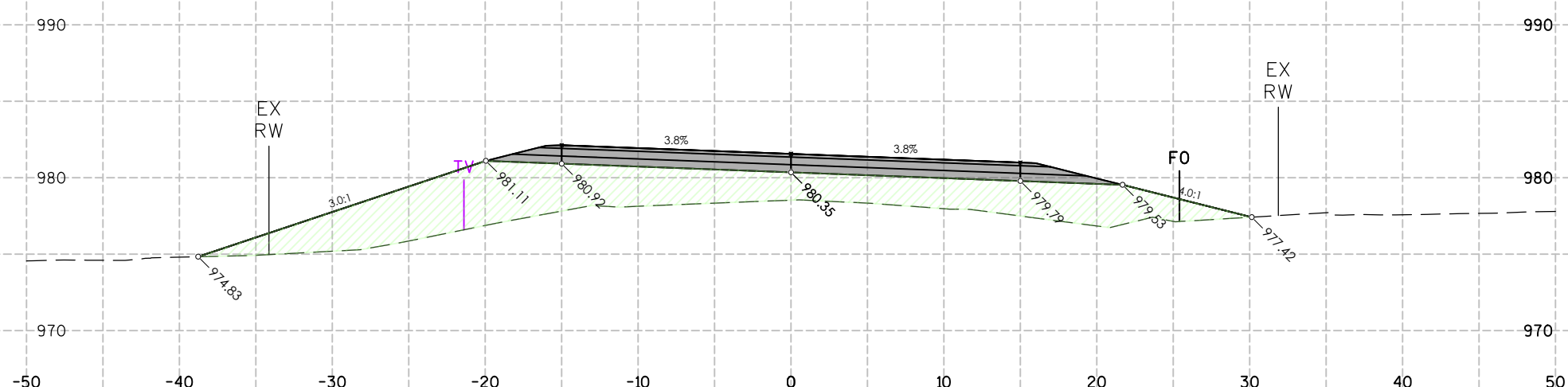
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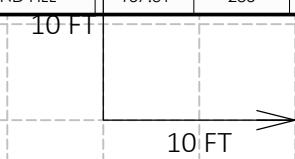
CUT/FILL STA:66+00.00			
ITEM	AREA (SF)	VOL (CY)	CUM. VOL. (CY)
GROUND REMOVED	0.00	0	6,233
GROUND FILL	107.89	238	5,891



CUT/FILL STA:65+50.00			
ITEM	AREA (SF)	VOL (CY)	CUM. VOL. (CY)
GROUND REMOVED	0.00	0	6,233
GROUND FILL	148.98	285	5,653

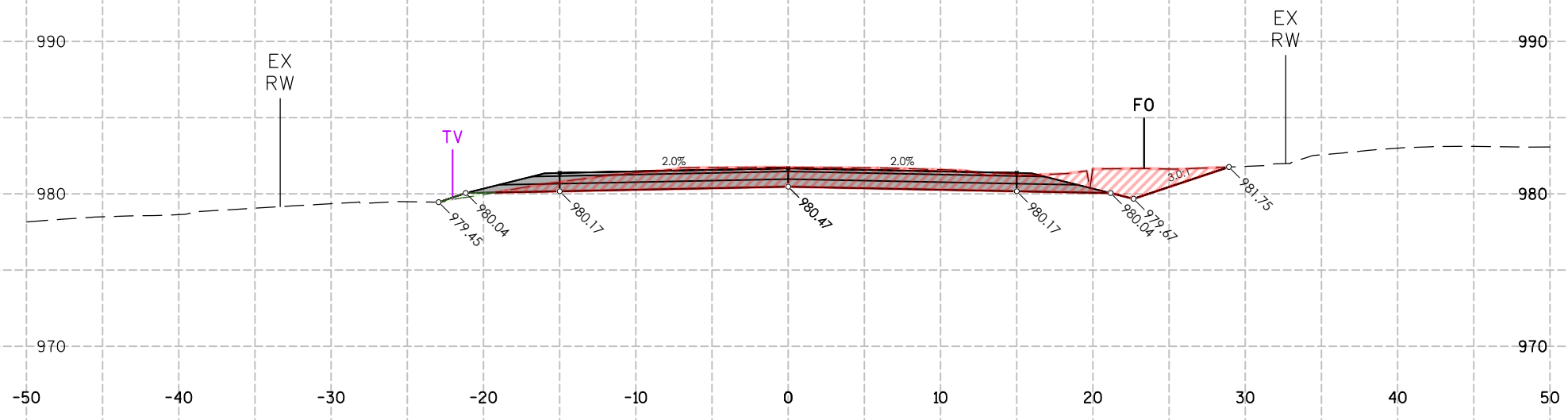


CUT/FILL STA:65+00.00			
ITEM	AREA (SF)	VOL (CY)	CUM. VOL. (CY)
GROUND REMOVED	0.00	0	6,233
GROUND FILL	157.31	285	5,368

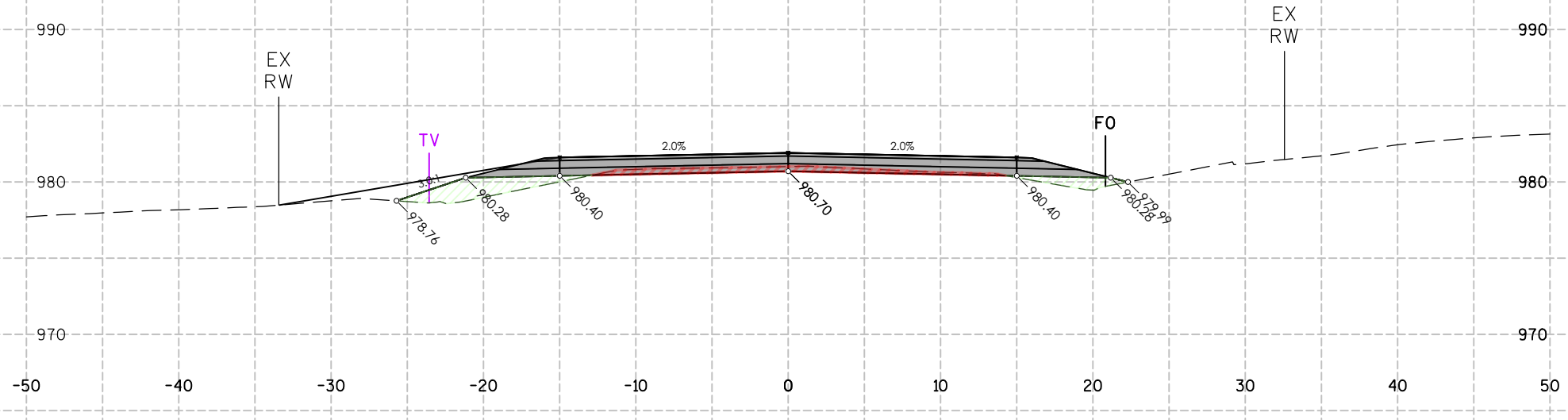


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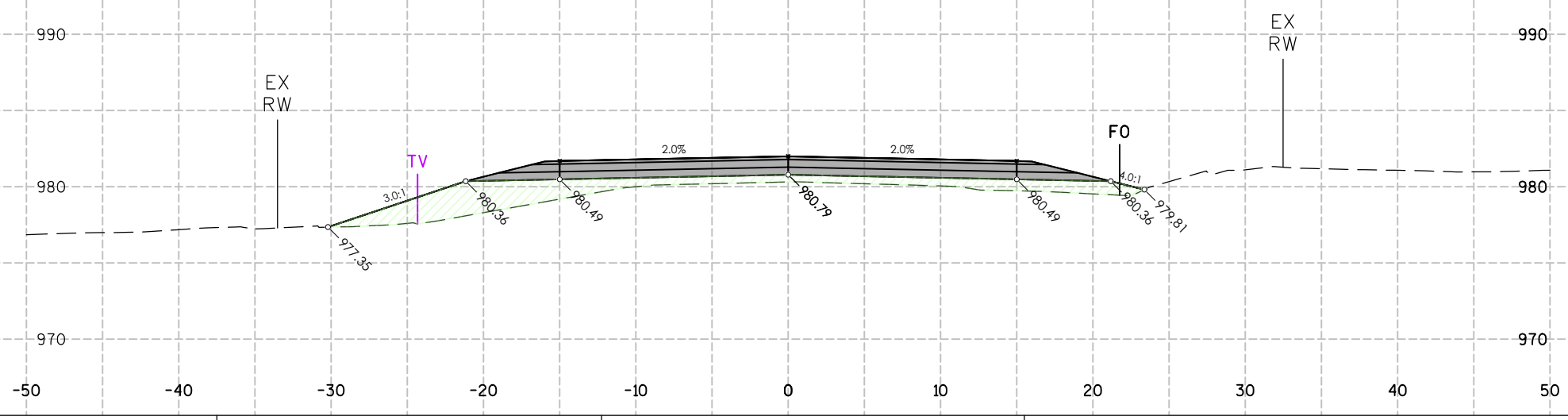
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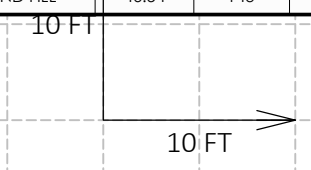
CUT/FILL STA:67+50.00			
ITEM	AREA (SF)	VOL (CY)	CUM. VOL. (CY)
GROUND REMOVED	54.23	57	6,296
GROUND FILL	0.53	13	6,103



CUT/FILL STA:67+00.00			
ITEM	AREA (SF)	VOL (CY)	CUM. VOL. (CY)
GROUND REMOVED	6.92	6	6,240
GROUND FILL	13.73	56	6,090

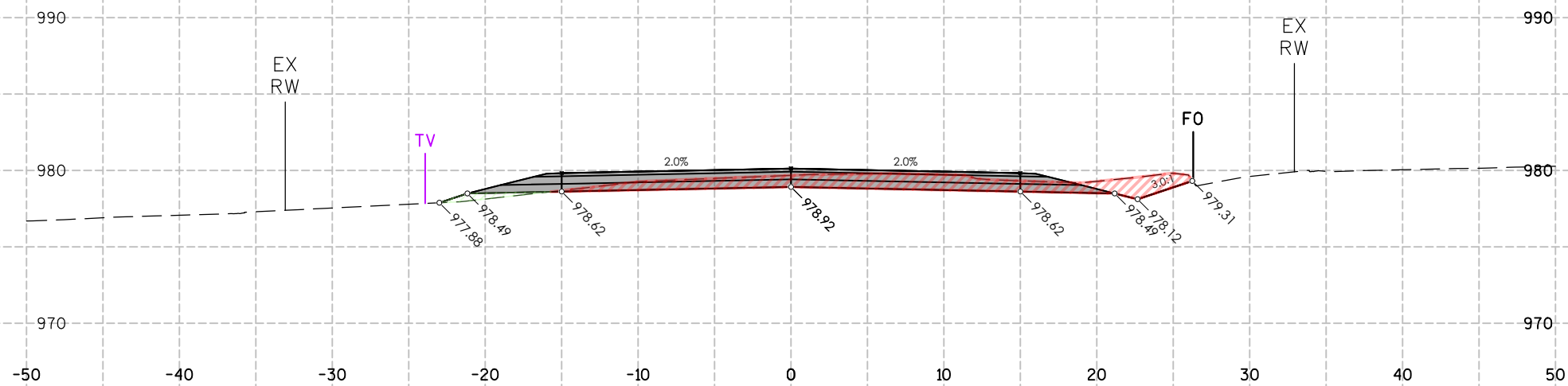


CUT/FILL STA:66+50.00			
ITEM	AREA (SF)	VOL (CY)	CUM. VOL. (CY)
GROUND REMOVED	0.00	0	6,233
GROUND FILL	46.54	143	6,034

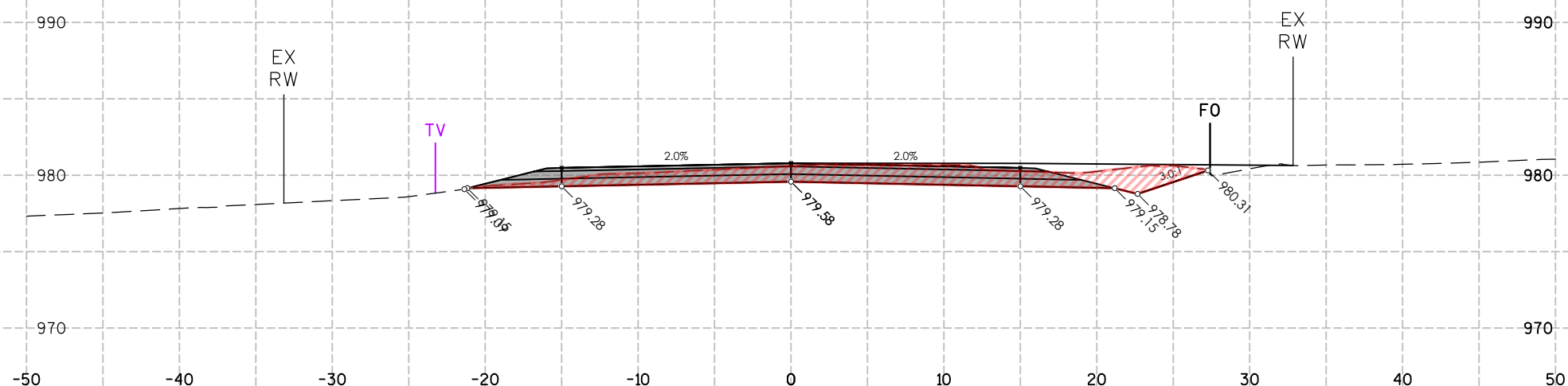


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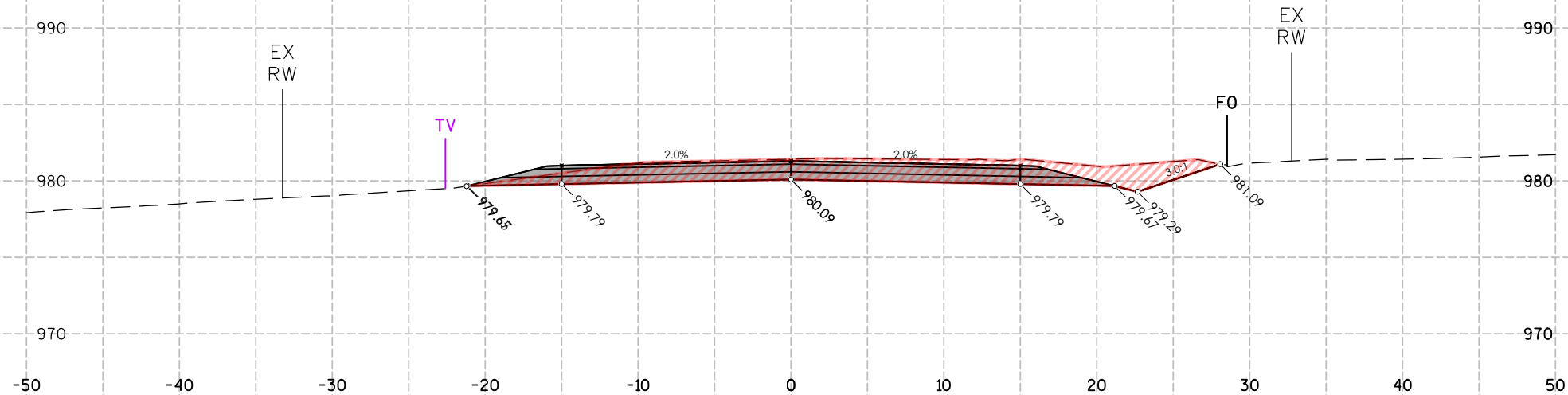
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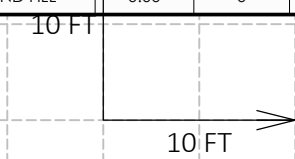
CUT/FILL STA:69+00.00			
ITEM	AREA (SF)	VOL (CY)	CUM. VOL. (CY)
GROUND REMOVED	31.33	70	6,567
GROUND FILL	1.82	2	6,105



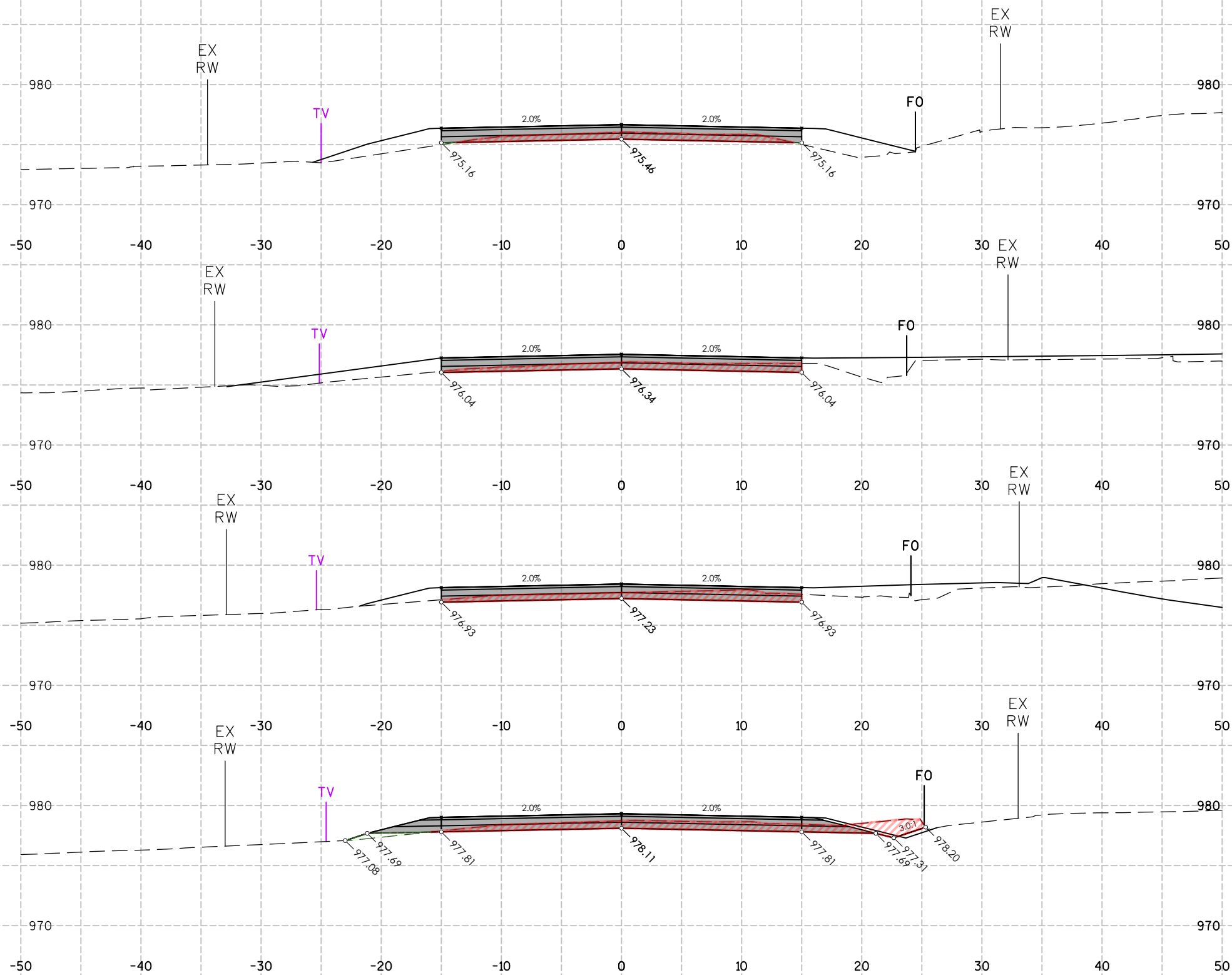
CUT/FILL STA:68+50.00			
ITEM	AREA (SF)	VOL (CY)	CUM. VOL. (CY)
GROUND REMOVED	44.15	96	6,497
GROUND FILL	0.01	0	6,103



CUT/FILL STA:68+00.00			
ITEM	AREA (SF)	VOL (CY)	CUM. VOL. (CY)
GROUND REMOVED	59.29	105	6,401
GROUND FILL	0.00	0	6,103







**CUT/FILL STA:71+00.00**

ITEM	AREA (SF)	VOL (CY)	CUM. VOL. (CY)
GROUND REMOVED	13.21	26	6,716
GROUND FILL	0.15	0	6,110

**CUT/FILL STA:70+50.00**

ITEM	AREA (SF)	VOL (CY)	CUM. VOL. (CY)
GROUND REMOVED	15.09	30	6,690
GROUND FILL	0.00	0	6,110

**CUT/FILL STA:70+00.00**

ITEM	AREA (SF)	VOL (CY)	CUM. VOL. (CY)
GROUND REMOVED	17.17	40	6,660
GROUND FILL	0.00	1	6,110

**CUT/FILL STA:69+50.00**

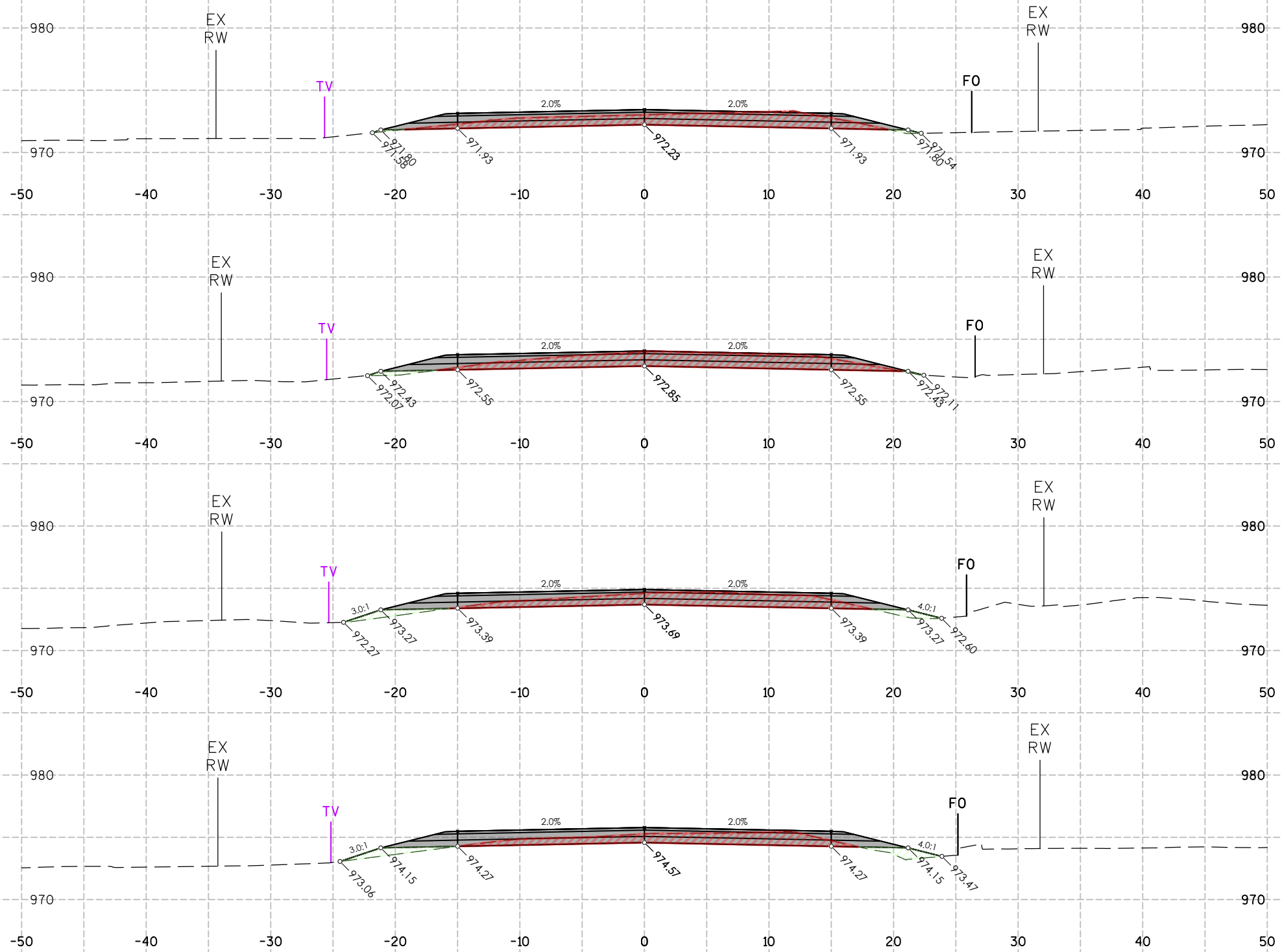
ITEM	AREA (SF)	VOL (CY)	CUM. VOL. (CY)
GROUND REMOVED	25.81	53	6,620
GROUND FILL	1.62	3	6,108

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6



**CUT/FILL STA:73+00.00**

ITEM	AREA (SF)	VOL (CY)	CUM. VOL. (CY)
GROUND REMOVED	29.43	57	6,898
GROUND FILL	0.59	2	6,132

**CUT/FILL STA:72+50.00**

ITEM	AREA (SF)	VOL (CY)	CUM. VOL. (CY)
GROUND REMOVED	31.61	52	6,842
GROUND FILL	1.28	5	6,130

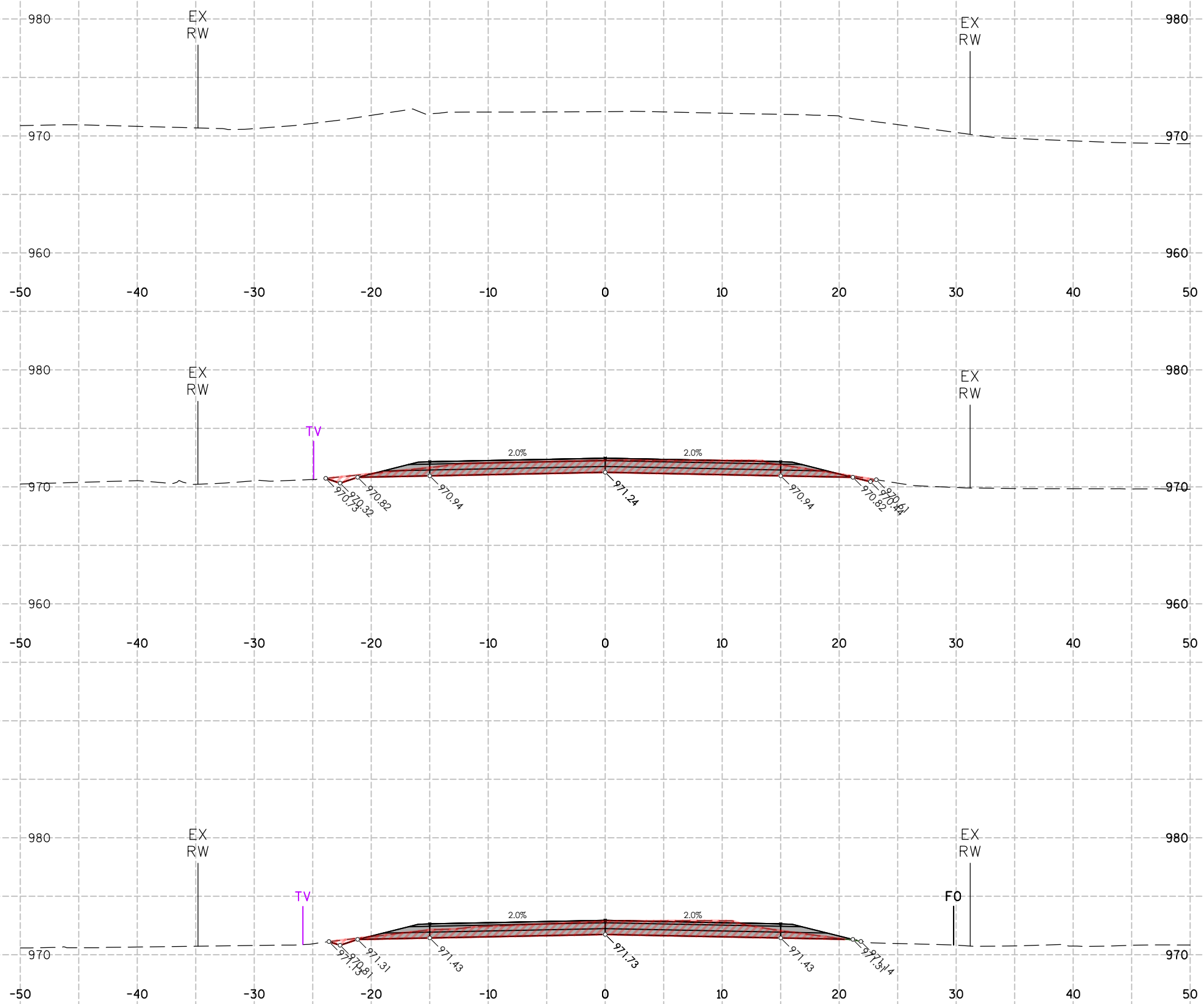
**CUT/FILL STA:72+00.00**

ITEM	AREA (SF)	VOL (CY)	CUM. VOL. (CY)
GROUND REMOVED	25.01	42	6,789
GROUND FILL	4.48	10	6,125

**CUT/FILL STA:71+50.00**

ITEM	AREA (SF)	VOL (CY)	CUM. VOL. (CY)
GROUND REMOVED	20.59	31	6,747
GROUND FILL	5.99	6	6,115

10 FT



**CUT/FILL STA:74+50.00**

ITEM	AREA (SF)	VOL (CY)	CUM. VOL. (CY)
GROUND REMOVED	0.00	36	7,066
GROUND FILL	0.00	0	6,133

**CUT/FILL STA:74+00.00**

ITEM	AREA (SF)	VOL (CY)	CUM. VOL. (CY)
GROUND REMOVED	39.13	70	7,030
GROUND FILL	0.00	0	6,133

**CUT/FILL STA:73+50.00**

ITEM	AREA (SF)	VOL (CY)	CUM. VOL. (CY)
GROUND REMOVED	36.62	61	6,959
GROUND FILL	0.05	1	6,133

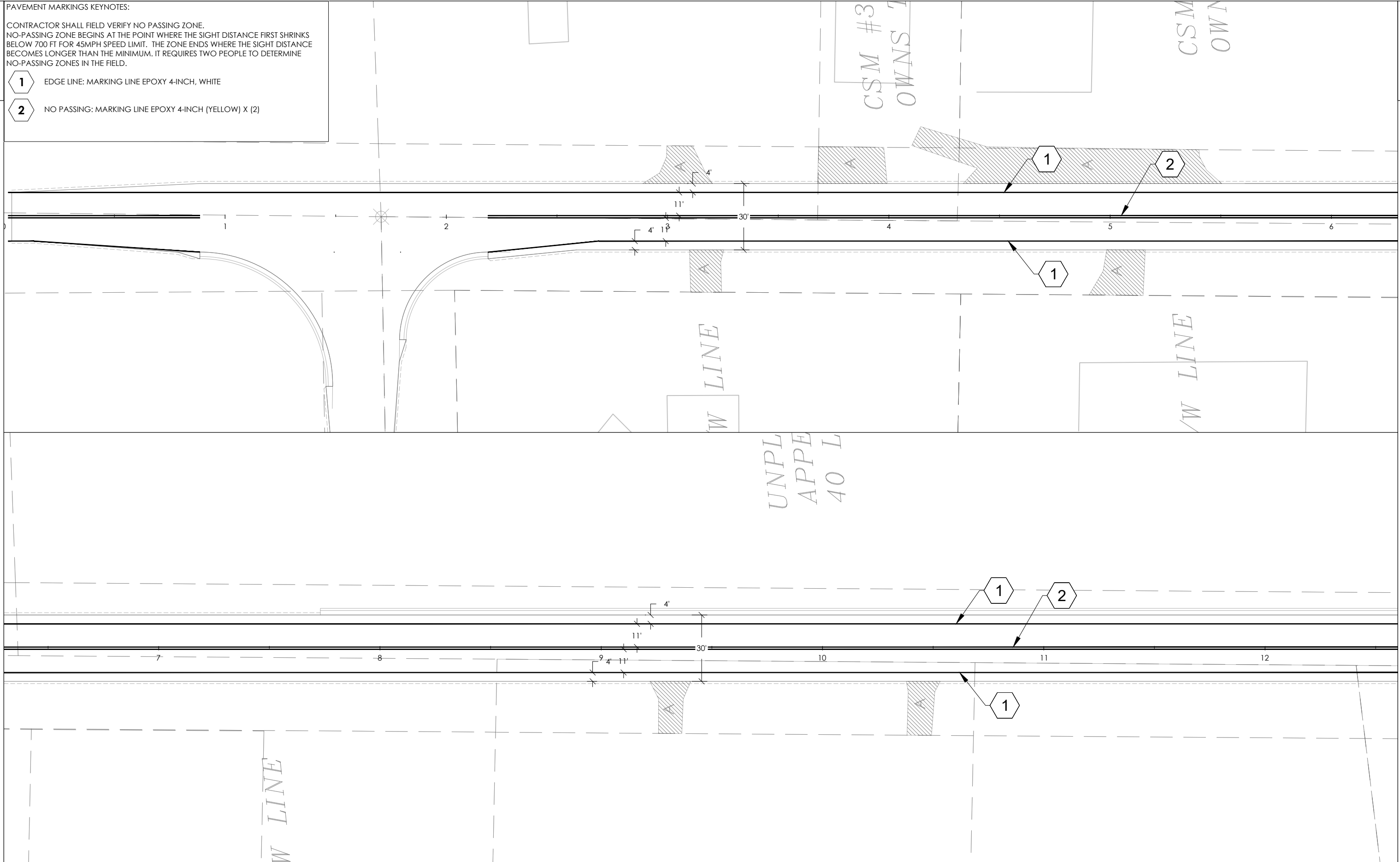
6

6

10 FT

**2** PAVEMENT MARKINGS KEYNOTES:  
 CONTRACTOR SHALL FIELD VERIFY NO PASSING ZONE.  
 NO-PASSING ZONE BEGINS AT THE POINT WHERE THE SIGHT DISTANCE FIRST SHRINKS  
 BELOW 700 FT FOR 45MPH SPEED LIMIT. THE ZONE ENDS WHERE THE SIGHT DISTANCE  
 BECOMES LONGER THAN THE MINIMUM. IT REQUIRES TWO PEOPLE TO DETERMINE  
 NO-PASSING ZONES IN THE FIELD.

- 1** EDGE LINE: MARKING LINE EPOXY 4-INCH, WHITE
- 2** NO PASSING: MARKING LINE EPOXY 4-INCH (YELLOW) X (2)



PAVEMENT MARKINGS KEYNOTES:

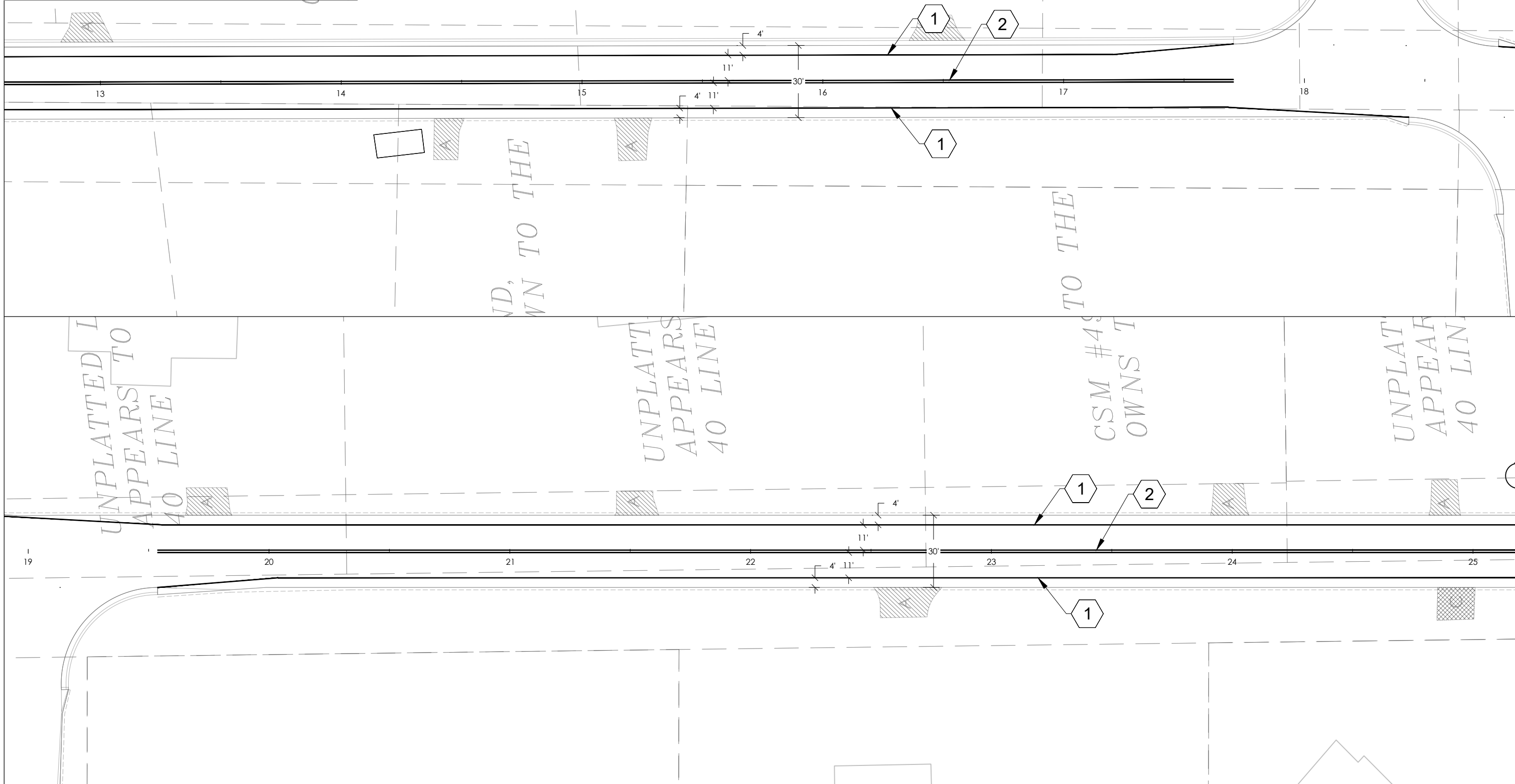
CONTRACTOR SHALL FIELD VERIFY NO PASSING ZONE.  
NO-PASSING ZONE BEGINS AT THE POINT WHERE THE SIGHT DISTANCE FIRST SHRINKS  
BELOW 700 FT FOR 45MPH SPEED LIMIT. THE ZONE ENDS WHERE THE SIGHT DISTANCE  
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2

2



PROJECT NO: 18112/39508802306	HWY: ELLSWORTH RD	COUNTY: MONROE COUNTY	PAVEMENT MARKINGS	SHEET	E
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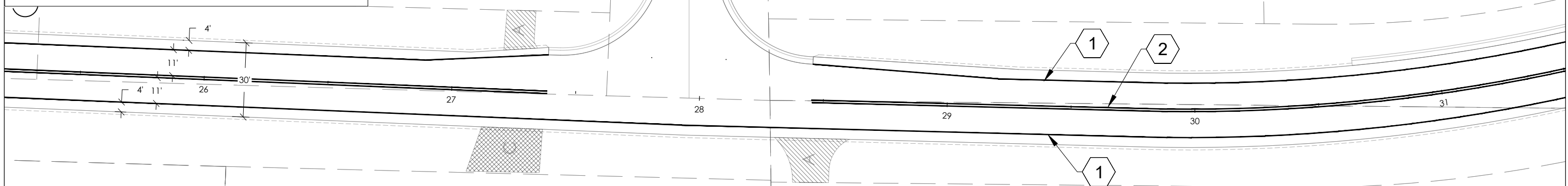
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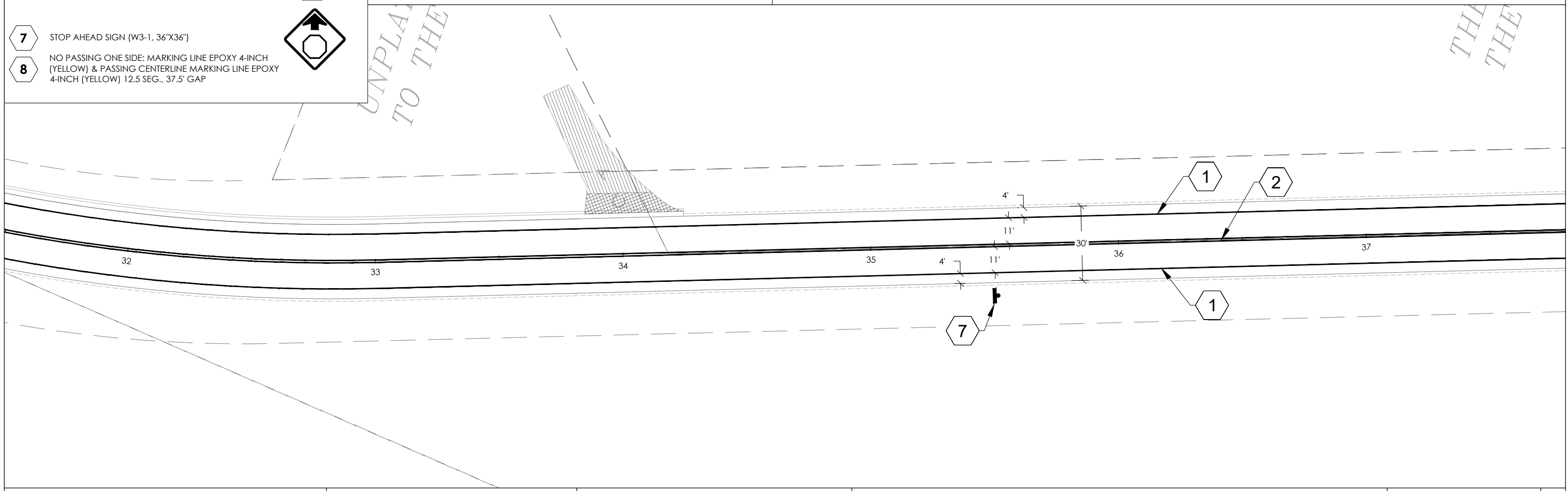
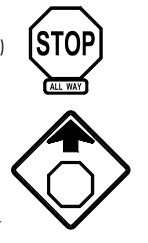
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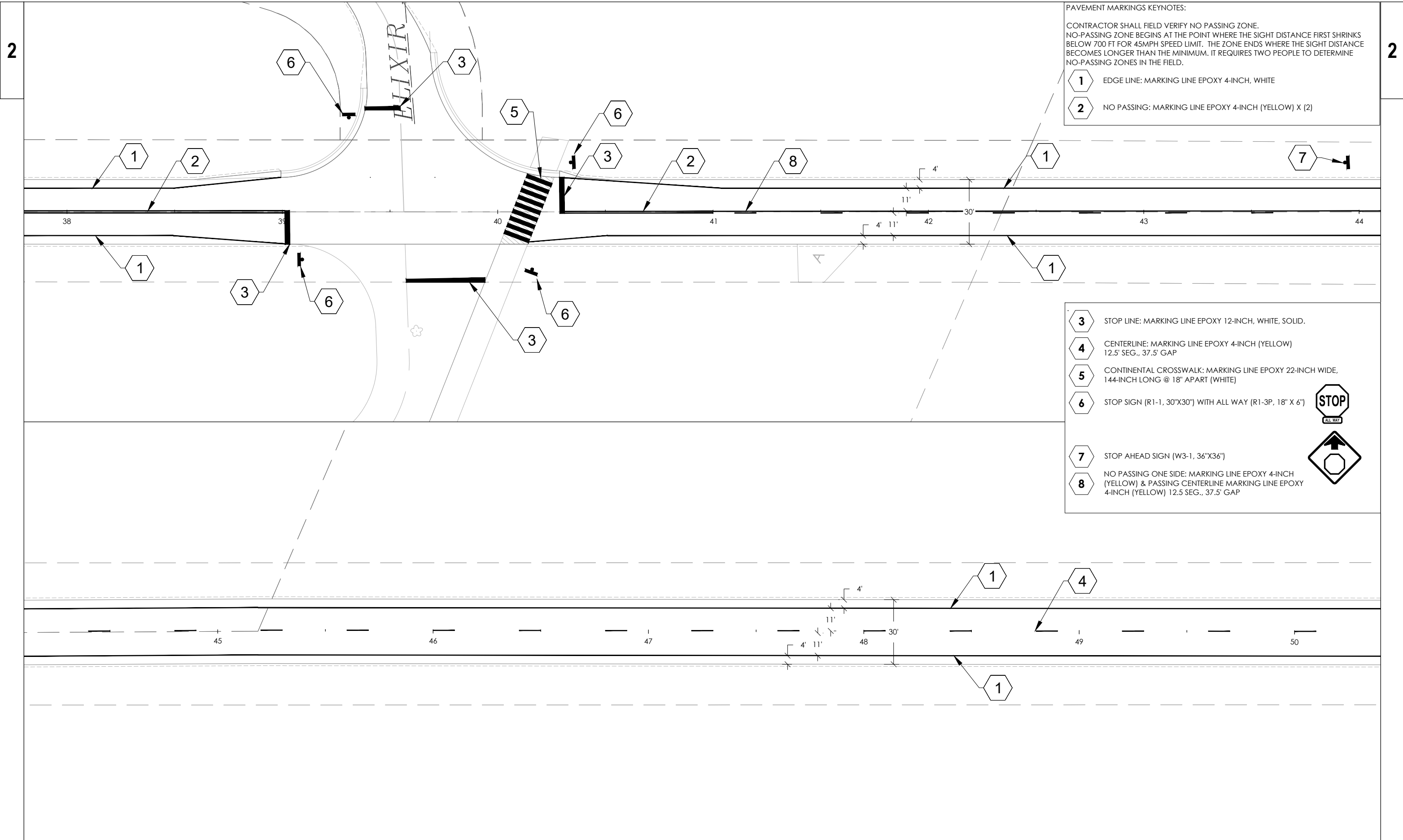
- 1 EDGE LINE: MARKING LINE EPOXY 4-INCH, WHITE
- 2 NO PASSING: MARKING LINE EPOXY 4-INCH (YELLOW) X (2)

2



- 3 STOP LINE: MARKING LINE EPOXY 12-INCH, WHITE, SOLID.
- 4 CENTERLINE: MARKING LINE EPOXY 4-INCH (YELLOW) 12.5' SEG., 37.5' GAP
- 5 CONTINENTAL CROSSWALK: MARKING LINE EPOXY 22-INCH WIDE, 144-INCH LONG @ 18" APART (WHITE)
- 6 STOP SIGN (R1-1, 30"X30") WITH ALL WAY (R1-3P, 18" X 6")
- 7 STOP AHEAD SIGN (W3-1, 36"X36")
- 8 NO PASSING ONE SIDE: MARKING LINE EPOXY 4-INCH (YELLOW) & PASSING CENTERLINE MARKING LINE EPOXY 4-INCH (YELLOW) 12.5' SEG., 37.5' GAP





**PAVEMENT MARKINGS KEYNOTES:**  
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**4** CENTERLINE: MARKING LINE EPOXY 4-INCH (YELLOW) 12.5' SEG., 37.5' GAP  
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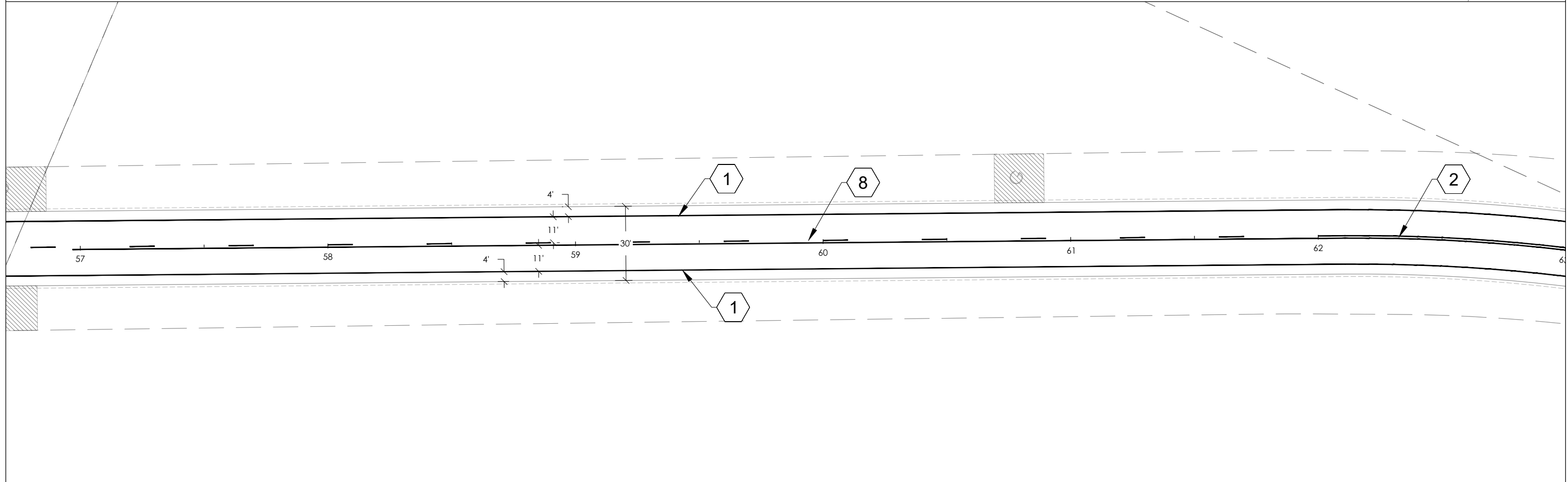
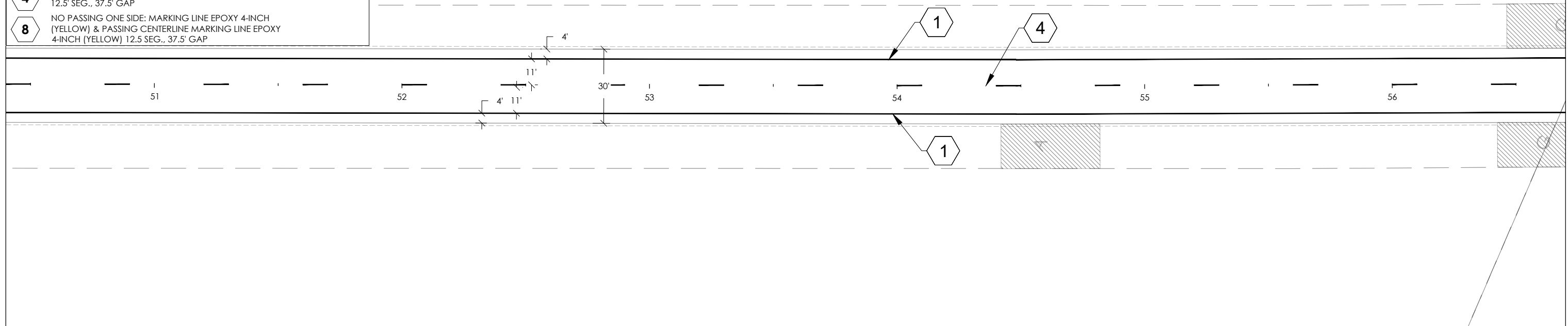
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**2**



PROJECT NO: 18112/39508802306	HWY: ELLSWORTH RD	COUNTY: MONROE COUNTY	PAVEMENT MARKINGS	SHEET	<b>E</b>
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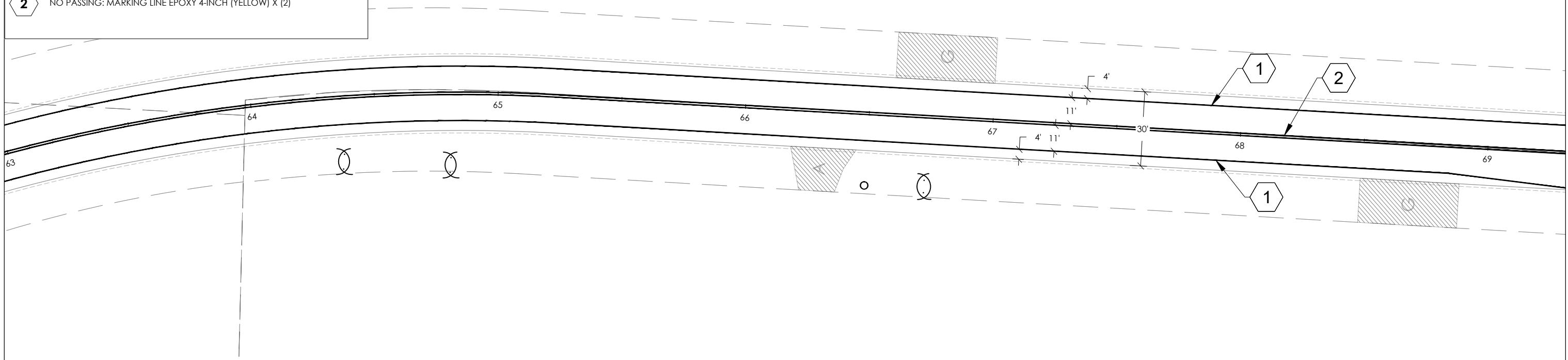


**2**

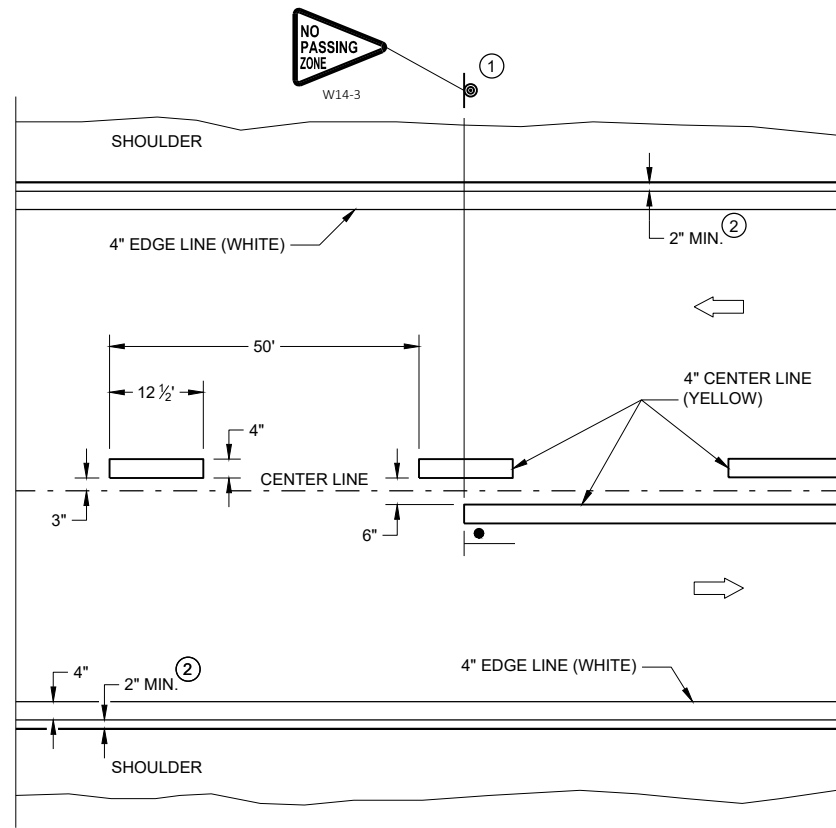
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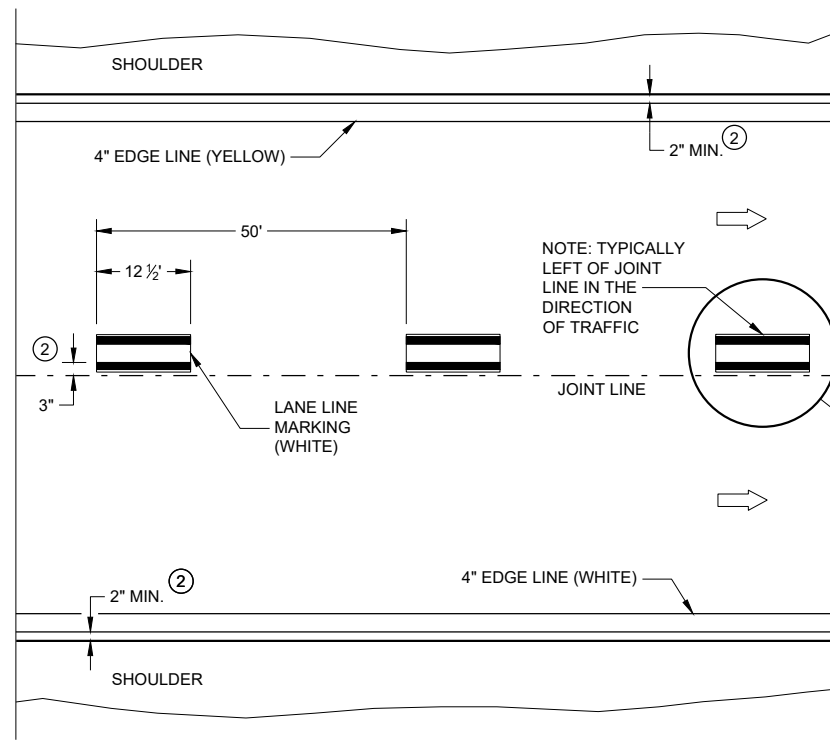
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PROJECT NO: 18112/39508802306      HWY: ELLSWORTH RD      COUNTY: MONROE COUNTY      PAVEMENT MARKINGS      SHEET      **E**

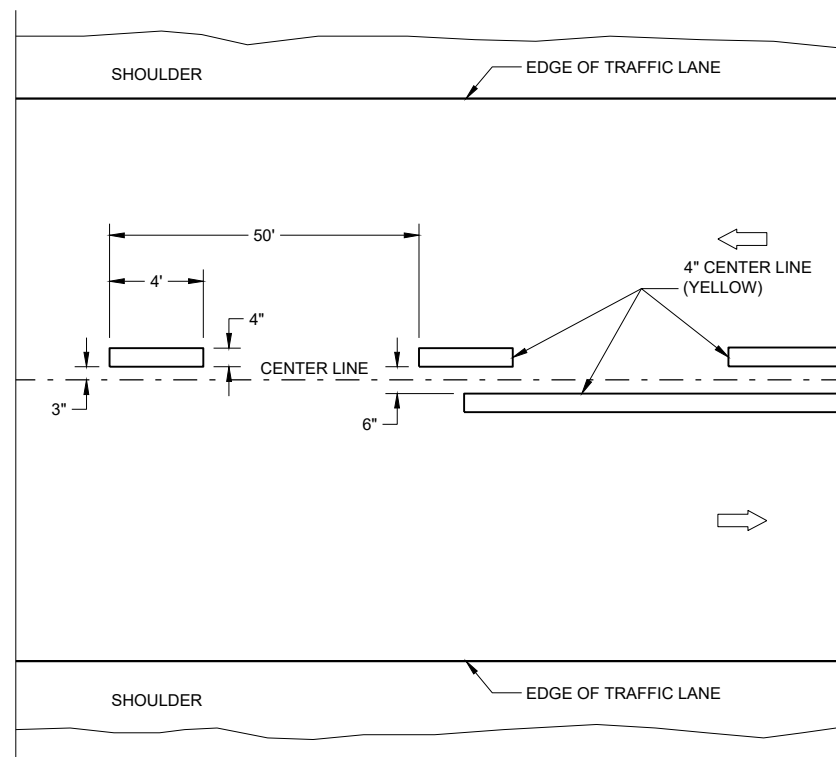


**TWO WAY TRAFFIC**

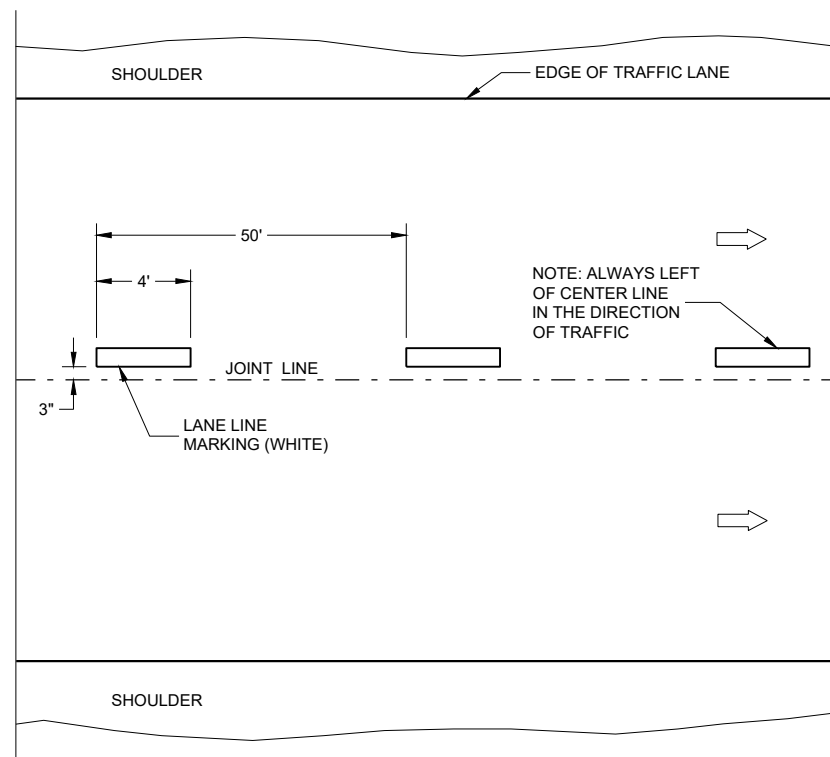


**ONE WAY TRAFFIC**

**PERMANENT PAVEMENT MARKING**



**TWO WAY TRAFFIC**



**ONE WAY TRAFFIC**

**TEMPORARY PAVEMENT MARKING**

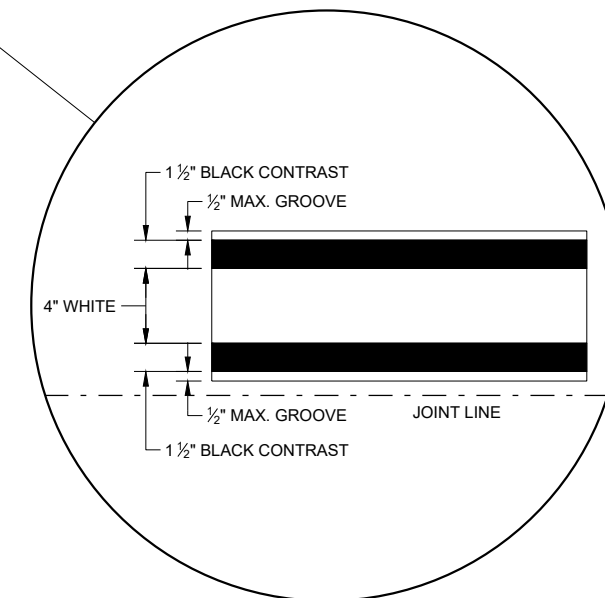
**GENERAL NOTES**

DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS.

- ① LOCATE THE NO PASSING ZONE W14-3 SIGN WITH 50 FEET OF THE "T" MARKING
- ② MEASURE FROM EDGE OF MARKING TO JOINT LINE. THIS DOES NOT INCLUDE SPACE NEEDED FOR GROOVING OPERATIONS.

**LEGEND**

- "T" MARKING
- SIGN ON PERMANENT SUPPORT
- DIRECTION OF TRAFFIC



**LONGITUDINAL MARKING  
(MAINLINE)**

STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION

APPROVED  
February 2020 /S/ Matthew Rauch  
DATE STATEWIDE SIGNING AND MARKING  
ENGINEER