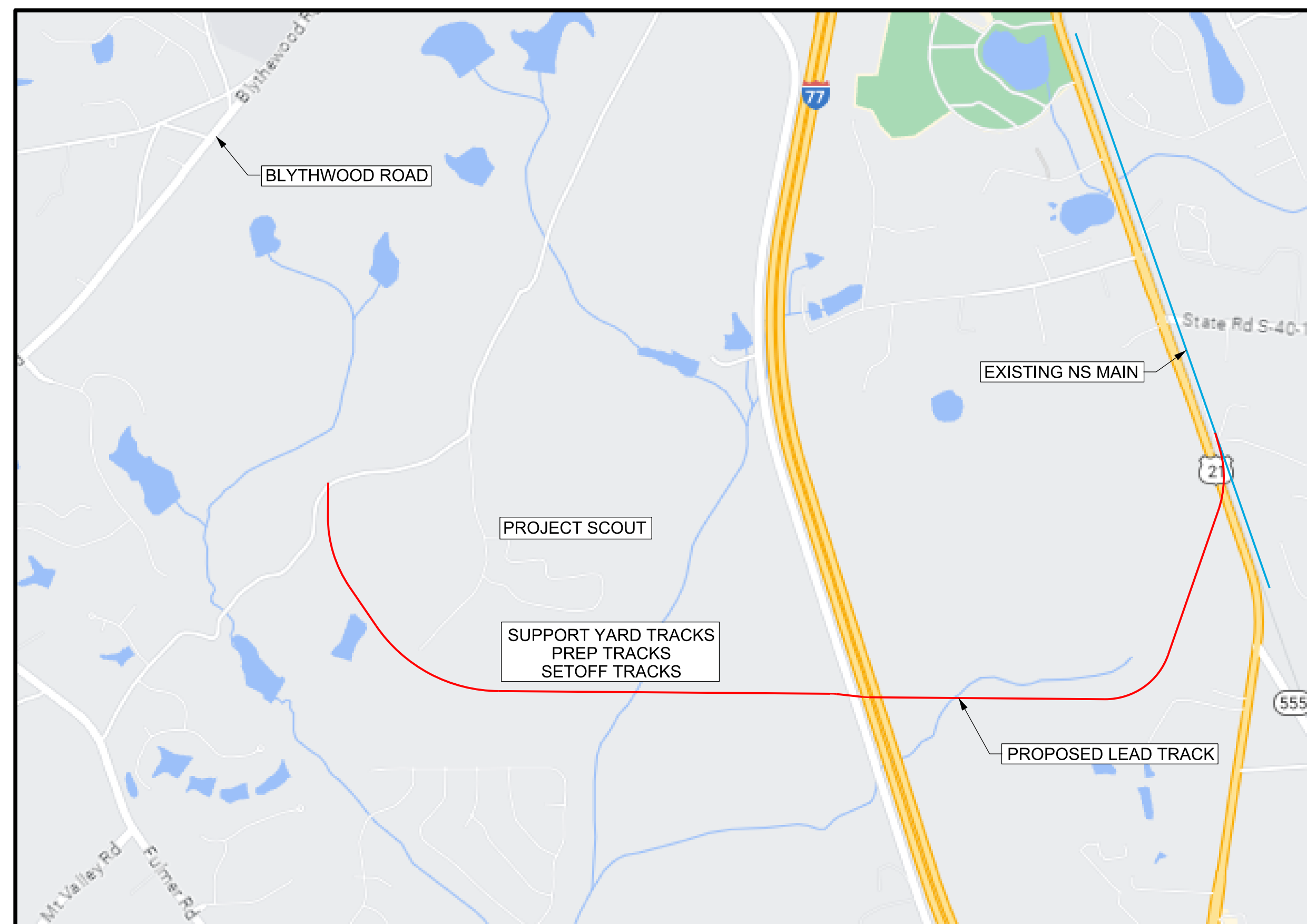




**BLYTHEWOOD, SOUTH CAROLINA**  
**PROPOSED TRACKS TO SERVE PROJECT SCOUT – MP R91.4**

CONSTRUCTION SITE LOCATION MAP



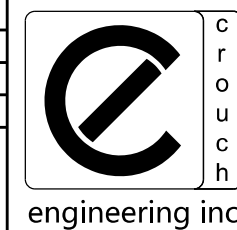
**NOTES:**

- THE WORK FOR THIS PROJECT SHALL BE IN ACCORDANCE WITH THE NORFOLK SOUTHERN STANDARD SPECIFICATIONS FOR MATERIALS AND CONSTRUCTION DATED JANUARY 2019 AND ANY SPECIAL PROVISIONS PROVIDED HEREIN.
- NS WILL FURNISH A FLAGMAN AT NO COST TO THE CONTRACTOR. THE CONTRACTOR WILL COORDINATE ALL CONSTRUCTION ACTIVITIES WITH THE NS FLAGMAN.
- THE CONTRACTOR SHALL SUBMIT TO NS A PROPOSED CONSTRUCTION SCHEDULE PRIOR TO BEGINNING WORK.
- THE CONTRACTOR IS RESPONSIBLE FOR THE INVESTIGATION, LOCATION, SUPPORT, PROTECTION, AND RESTORATION OF ALL EXISTING UTILITIES WHETHER SHOWN ON THESE PLANS OR NOT. IT IS BELIEVED THAT THEY ARE ESSENTIALLY CORRECT, BUT NS DOES NOT GUARANTEE THEIR ACCURACY OR COMPLETENESS. THE CONTRACTOR SHOULD VERIFY LOCATIONS WITH THE UTILITY COMPANIES NOT LESS THAN 48 HOURS BEFORE STARTING EXCAVATION ACTIVITIES.
- ALL CONSTRUCTION WORK WILL BE PERFORMED IN SUCH A MANNER AS TO CONTROL EROSION AND PREVENT SEDIMENTATION FROM LEAVING THE SITE. EROSION CONTROL MEASURES AND PRACTICES SHALL BE INSTALLED PRIOR TO OR CONCURRENT WITH LAND-DISTURBING ACTIVITIES.
- RAILROAD RIGHT OF WAY LINES, IF SHOWN, WERE OBTAINED FROM VALUATION MAPS. ALL RIGHT OF WAY AND PROPERTY LINES ARE SHOWN FOR INFORMATION PURPOSES ONLY AS THEY HAVE NOT BEEN VERIFIED IN THE FIELD.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ANY LOCAL CONSTRUCTION PERMITS THAT MAY BE REQUIRED FOR CONSTRUCTION OF THIS PROJECT.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL FIELD LAYOUT AND CONSTRUCTION STAKING.
- THE CONTRACTOR SHALL OBTAIN ANY TEMPORARY CONSTRUCTION ENTRANCE AND/OR DRIVEWAY PERMITS FROM THE APPROPRIATE GOVERNING AGENCY.
- ON SITE AND GENERATED CONSTRUCTION DEBRIS IS TO BE DISPOSED OF AS NON-REGULATED SOLID WASTE IN COMPLIANCE WITHIN LOCAL REGULATIONS. IF SUSPECTED ENVIRONMENTAL PROBLEMS ARE ENCOUNTERED, CONTACT THE NS ENVIRONMENTAL PROTECTION DEPARTMENT TO ASSIST IN THEIR PROPER HANDLING AND REMOVAL.
- THE CONTRACTOR'S BID PRICE FOR CROSS TIE REMOVAL, IF REQUIRED, SHALL INCLUDE TRANSPORTATION AND LEGAL DISPOSAL.

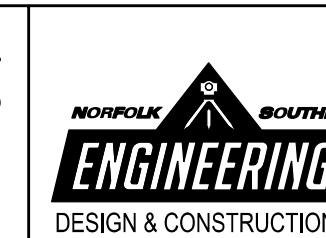
**TABLE OF CONTENTS**

SHEET	PHASE	DESCRIPTION	SHEET	PHASE	DESCRIPTION
1		COVER SHEET	106-109	1	EROSION AND SEDIMENT CONTROL
2		LEGEND & PROJECT CONTROL POINTS	110	2	EROSION AND SEDIMENT CONTROL
3		OVERVIEW PLAN	111-113	1	EROSION AND SEDIMENT CONTROL
4		GENERAL NOTES	113-114	2	EROSION AND SEDIMENT CONTROL
5	1	TYPICAL SECTIONS	115-119	2	YARD AIR
6-7	2	TYPICAL SECTIONS	120	2	DETOUR PLAN
8-10	1	PLAN AND PROFILE	121-138	2	ELECTRICAL PLANS
10-27	2	PLAN AND PROFILE	139	1	UTILITY DUCTBANK PLAN
28	1	BOOMER ROAD PLAN AND PROFILE	140-162	2	ELECTRICAL PLANS
29	1	US 21 PLAN/BOOMER ROAD WIDENING			
29-30	2	US 21 PLAN AND PROFILE			
31-39	2	DRAINAGE PLANS			
39A-39D	1	DRAINAGE DETAILS			
40-71	1	CROSS SECTIONS			
72-102	2	CROSS SECTIONS			
103-105	1	UTILITY CROSS SECTIONS			
105A	1	UTILITY DETAILS			

PROJECT NO: 23050  
 DATE:  
 DRAWN BY: EVU  
 CHECKED BY:  
 REVISIONS:



**CROUCH ENGINEERING INC.**  
 5115 MARYLAND WAY, STE 225  
 BRENTWOOD, TN 37027  
 PHONE NO. (615) 791-0630

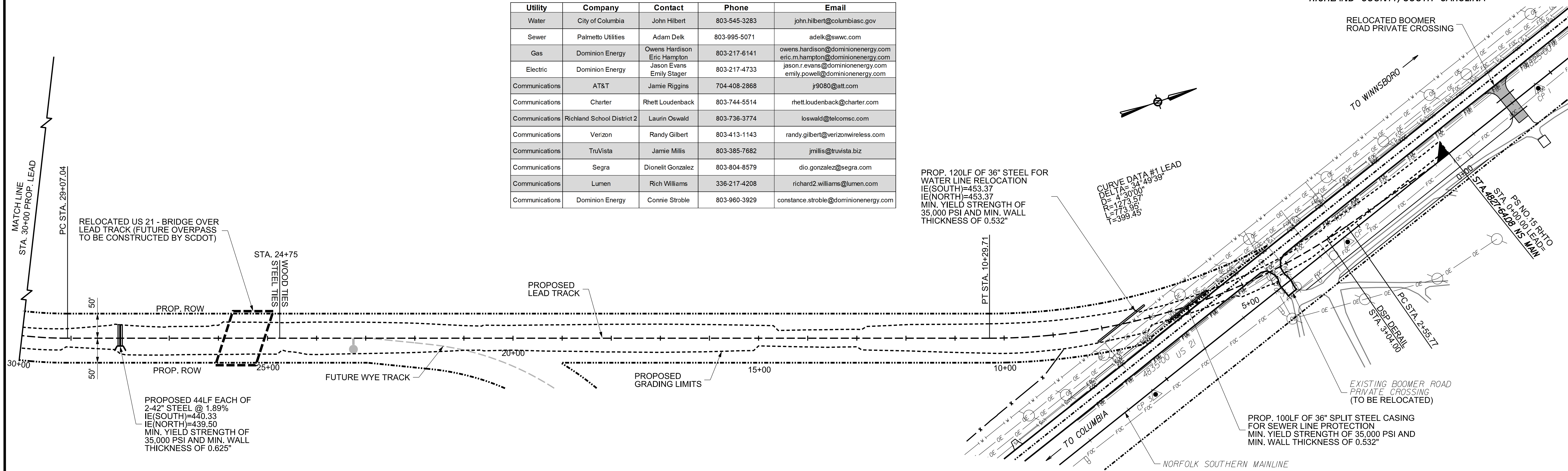


R1 EVU/DA/03/24 ADDED HEADWALLS AND CASING DETAIL, UPDATED TABLE OF CONTENTS  
 REV BY DATE DESCRIPTION

LOCATION	BLYTHEWOOD, SC		
TITLE	PROPOSED TRACKS TO SERVE PROJECT SCOUT COVER SHEET		
DWN	EVU	PLOT NO. D3327	VRN 04825
FILE NO.	TRK1115024	DRAWING NUMBER	R91.4
CHK	DATE	MARCH 5, 2024	TD-2023-105-R1



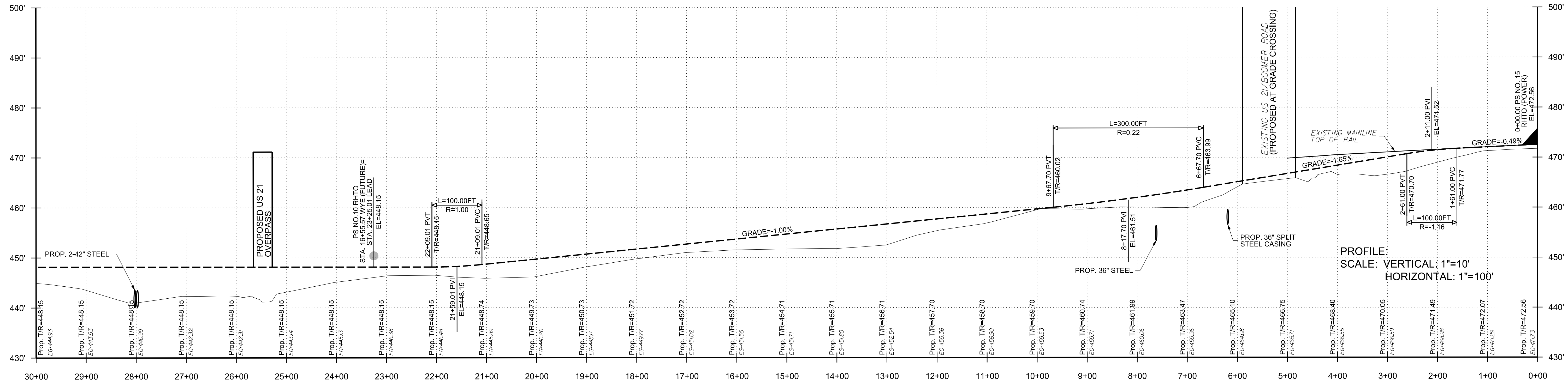
Utility	Company	Contact	Phone	Email
Water	City of Columbia	John Hilbert	803-545-3283	john.hilbert@columbiasc.gov
Sewer	Palmetto Utilities	Adam Delk	803-995-5071	adelk@sww.com
Gas	Dominion Energy	Owens Hardison Eric Hampton	803-217-6141	owens.hardison@dominionenergy.com eric.hampton@dominionenergy.com
Electric	Dominion Energy	Jason Evans Emily Stager	803-217-4733	jason.evans@dominionenergy.com emily.powell@dominionenergy.com
Communications	AT&T	Jamie Riggins	704-408-2868	jr9080@att.com
Communications	Charter	Rhett Loudenback	803-744-5514	rhett.loudenback@charter.com
Communications	Richland School District 2	Laurin Oswald	803-736-3774	loswald@telcomsc.com
Communications	Verizon	Randy Gilbert	803-413-1143	randy.gilbert@verizonwireless.com
Communications	TruVista	Jamie Millis	803-385-7682	jmillis@truvista.biz
Communications	Segra	Dionelit Gonzalez	803-804-8579	dio.gonzalez@segra.com
Communications	Lumen	Rich Williams	336-217-4208	richard2.williams@lumen.com
Communications	Dominion Energy	Connie Stroble	803-960-3929	constance.stroble@dominionenergy.com



PROP. 120LF OF 36" STEEL FOR WATER LINE RELOCATION  
IE(SOUTH)=453.37  
IE(NORTH)=453.37  
MIN. YIELD STRENGTH OF 35,000 PSI AND MIN. WALL THICKNESS OF 0.532"

CURVE DATA #1 LEAD  
DELTA=34°49'39"  
DE=4°30'00"  
R=1273.97  
L=773.99  
T=399.45

PROP. 100LF OF 36" SPLIT STEEL CASING FOR SEWER LINE PROTECTION  
MIN. YIELD STRENGTH OF 35,000 PSI AND MIN. WALL THICKNESS OF 0.532"

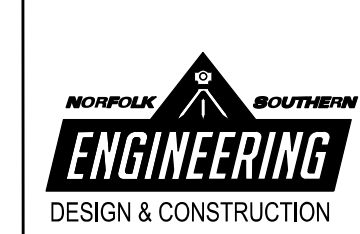


PROFILE:  
SCALE: VERTICAL: 1"=10'  
HORIZONTAL: 1"=100'

**PHASE 1**

PROJECT NO:	23050
DATE:	
DRAWN BY:	EVU
CHECKED BY:	
REVISIONS:	

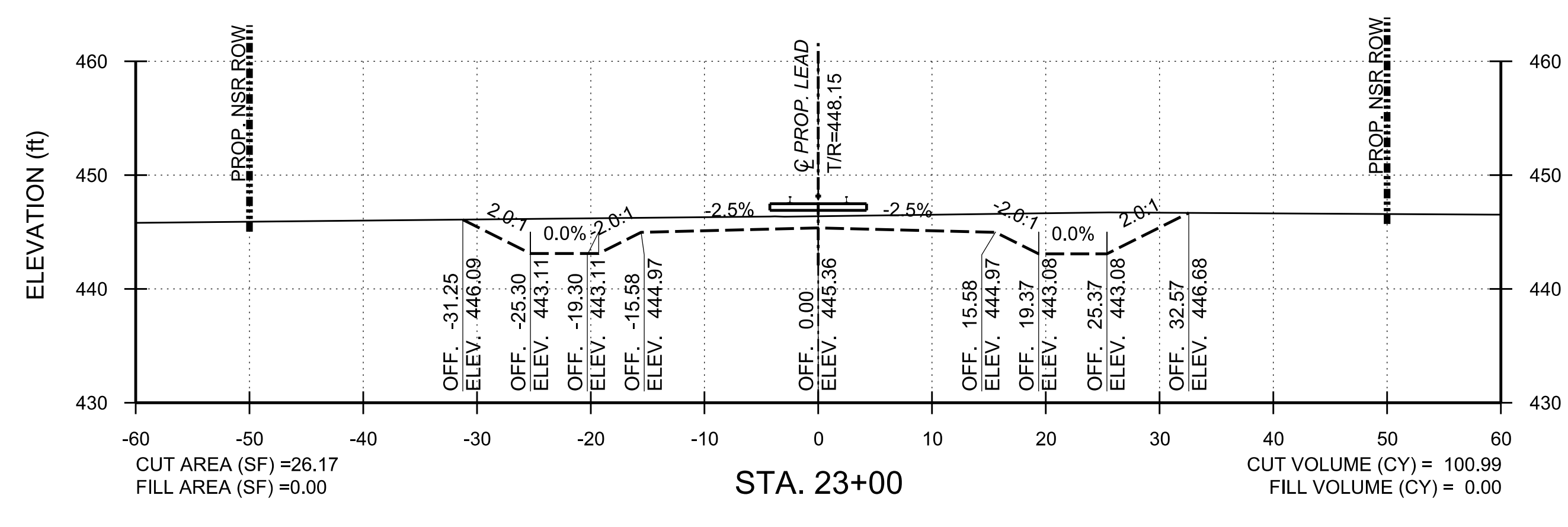
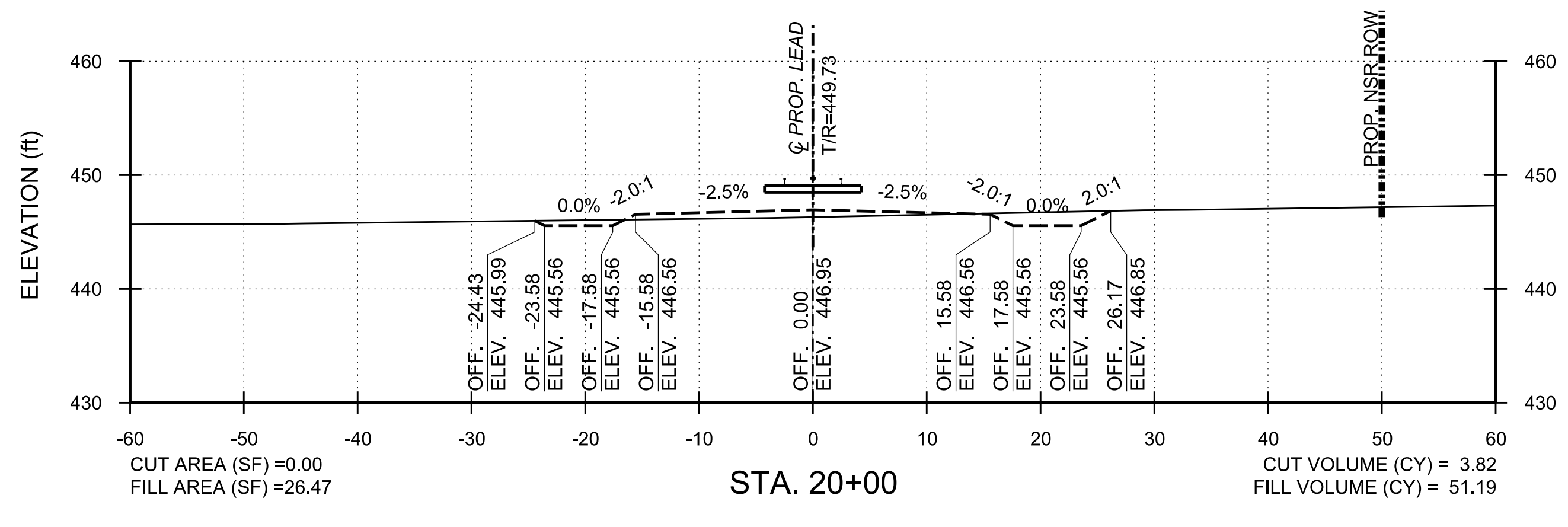
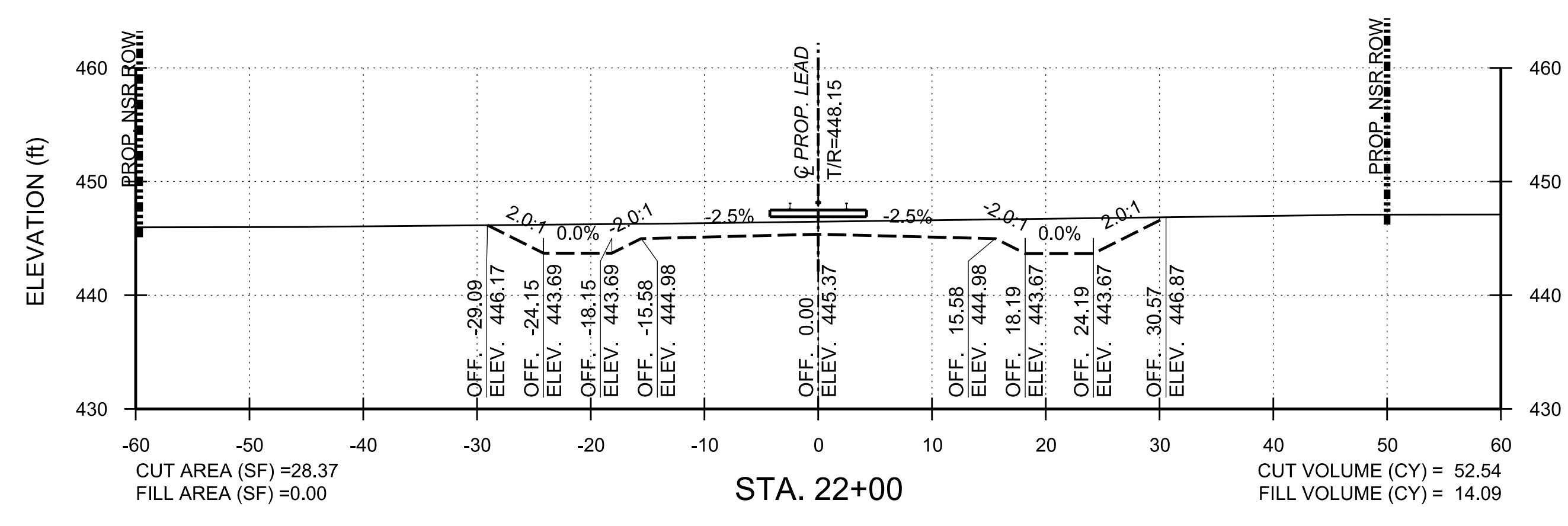
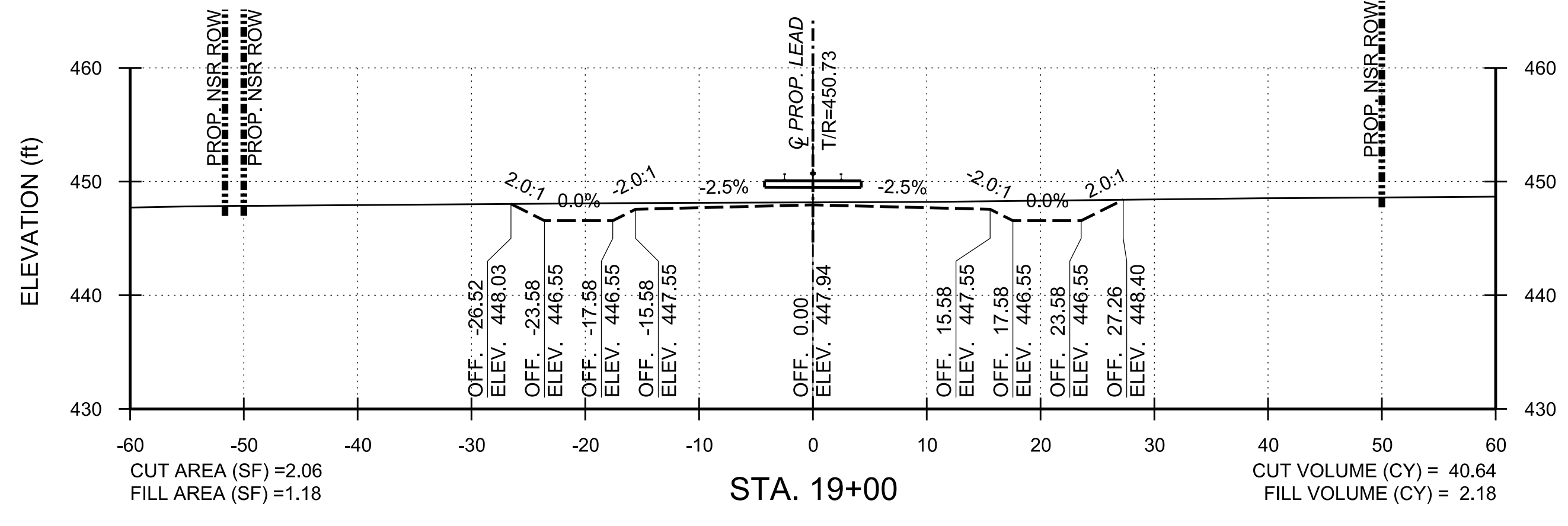
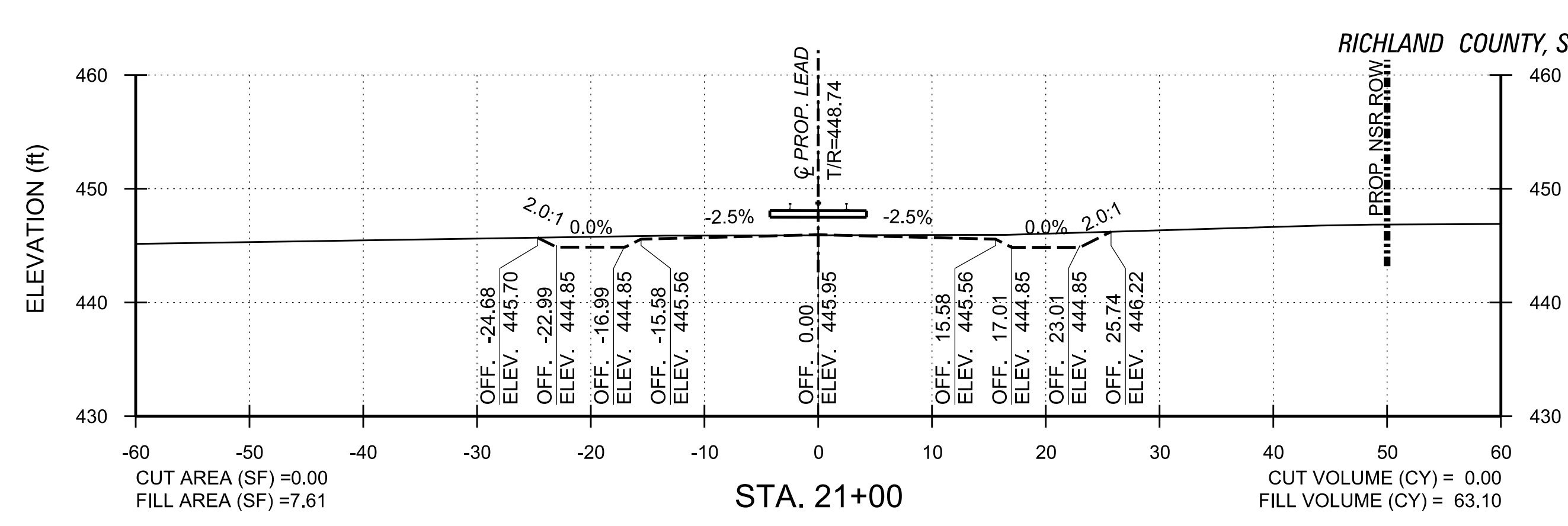
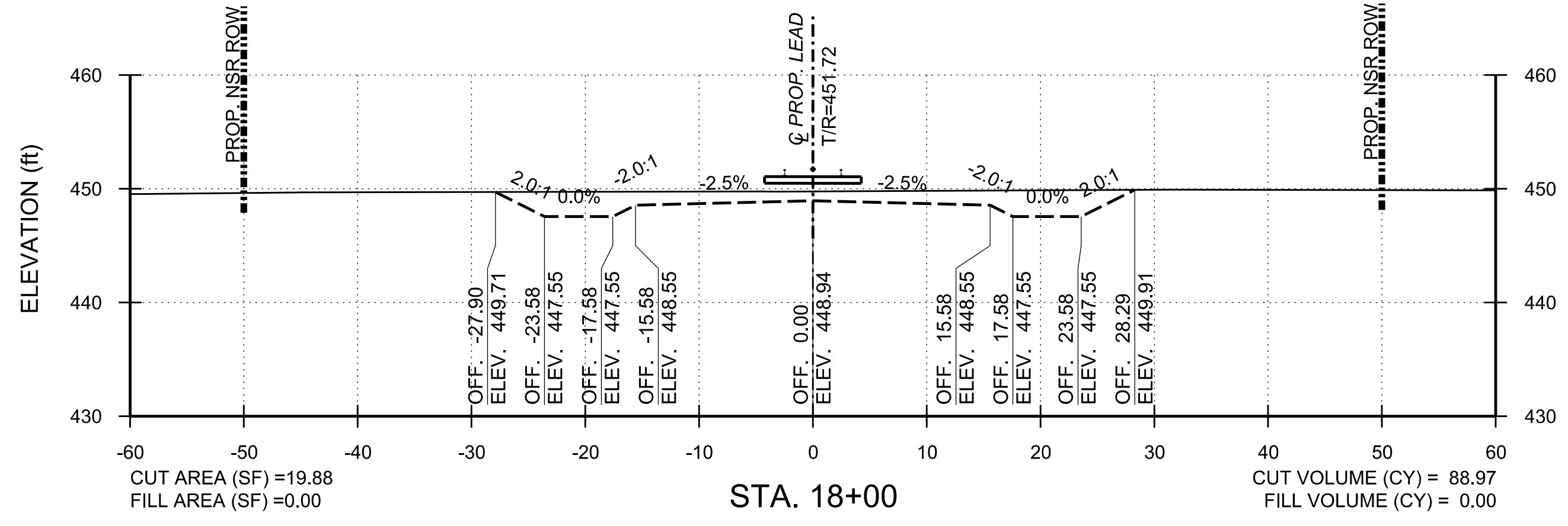
**CROUCH ENGINEERING INC.**  
5115 MARYLAND WAY, STE 225  
BRENTWOOD, TN 37027  
PHONE NO. (615) 791-0630



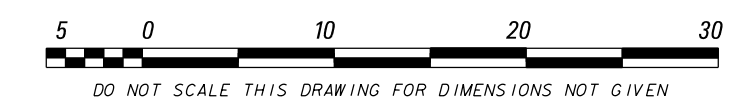
**NORFOLK SOUTHERN**  
NORFOLK SOUTHERN RAILWAY COMPANY  
COASTAL  
OFFICE OF THE CHIEF ENGINEER - DESIGN AND CONSTRUCTION - ATLANTA, GA.

REV	DATE	DESCRIPTION
R1	EVU/03/07/24	UPDATED STEEL PIPE DESIGN WITH HEADWALL
LOCATION: <b>BLYTHEWOOD, SC</b> TITLE: <b>PROPOSED TRACKS TO SERVE PROJECT SCOUT</b> <b>PROPOSED LEAD STA 0+00 - 30+00</b>		
DRN	EVU	P10 No. D3327
CHK	EVU	FILE No. TRK115024
		DATE: MARCH 5, 2024
		MILE POST: 04825
		DRAWING NUMBER: TD-2023-105-R1



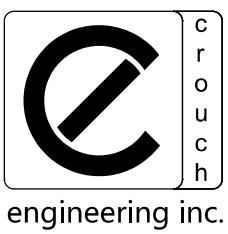


SCALE: 1" = 10'

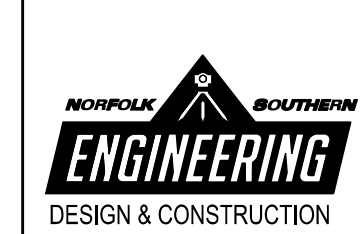


**PHASE 1**

PROJECT NO:	23050
DATE:	
DRAWN BY:	EVU
CHECKED BY:	
REVISIONS:	

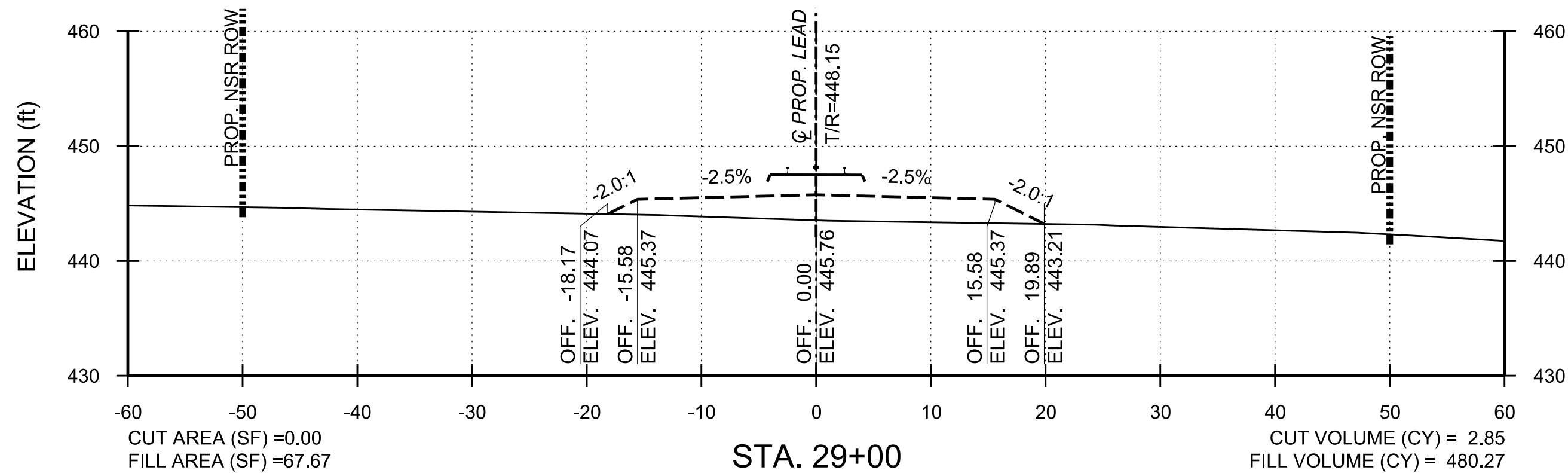
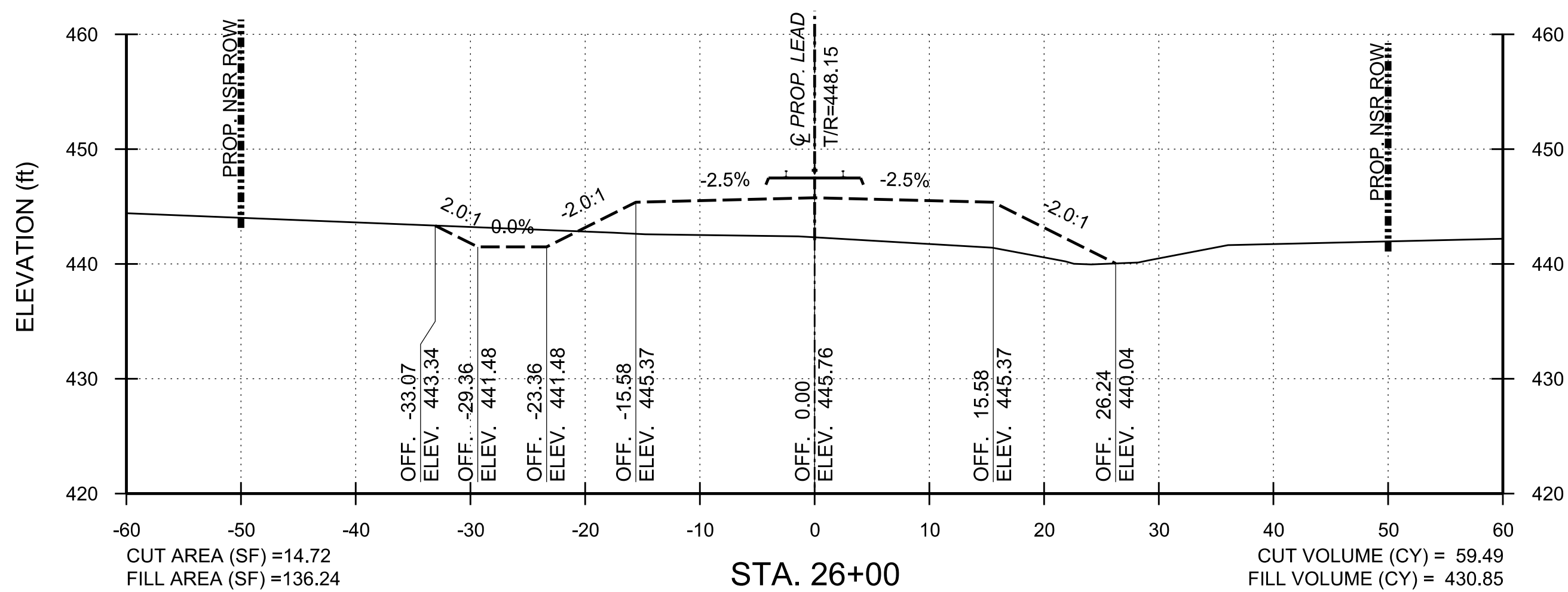
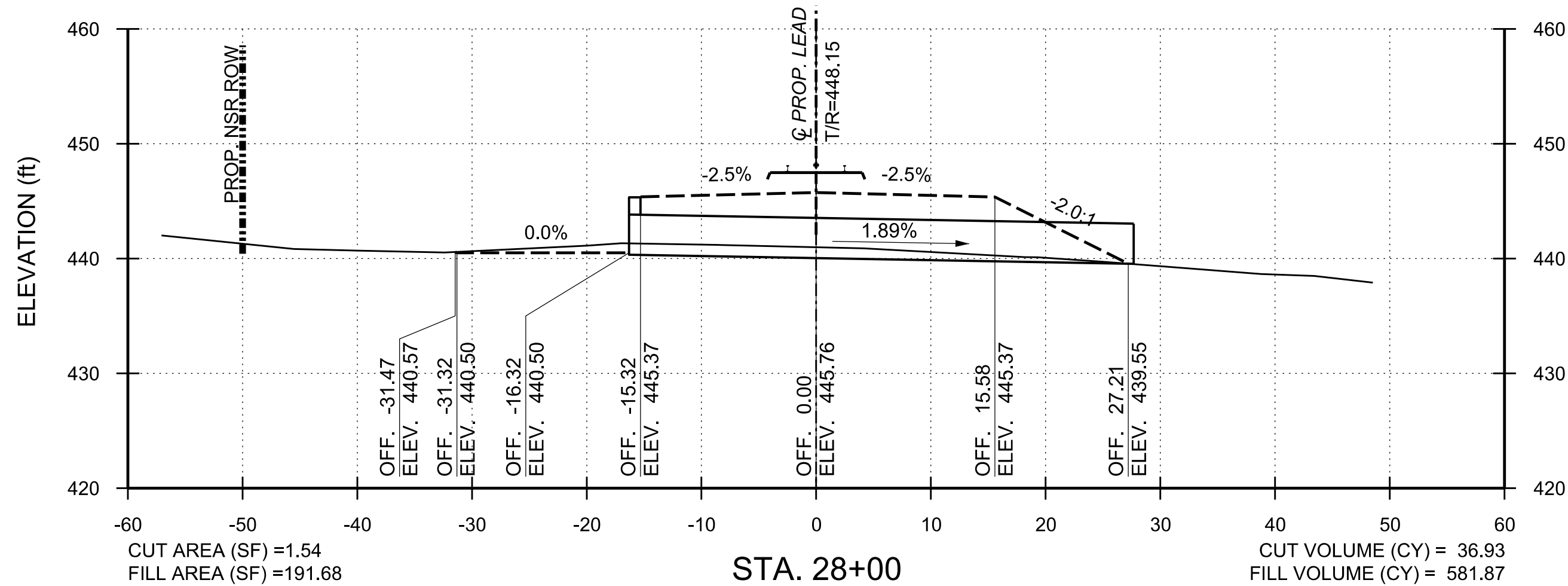
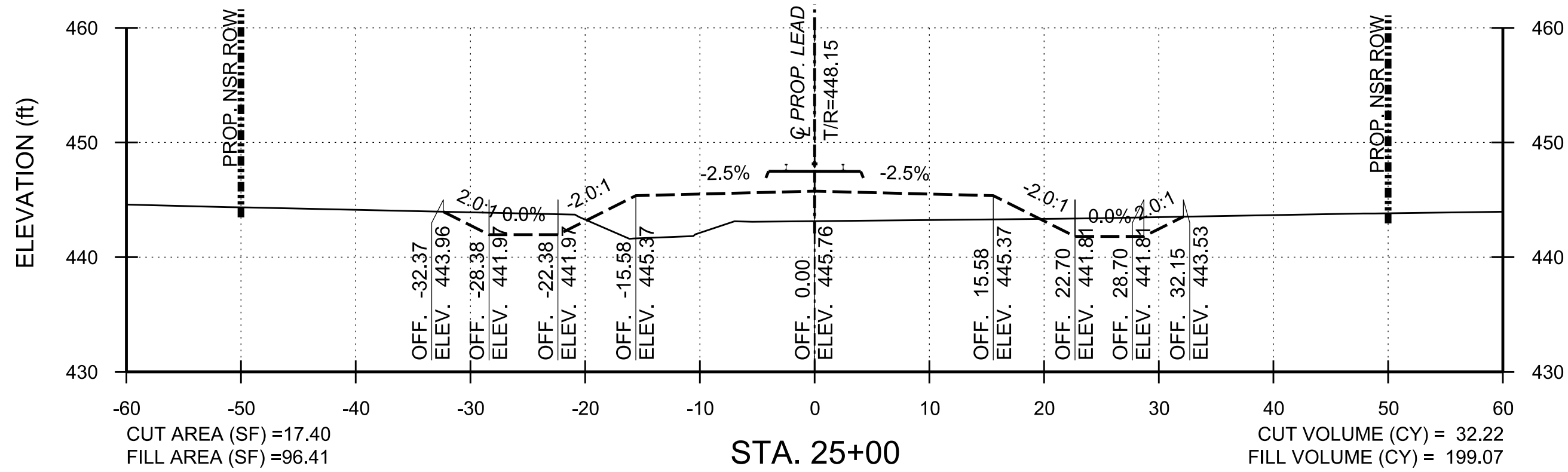
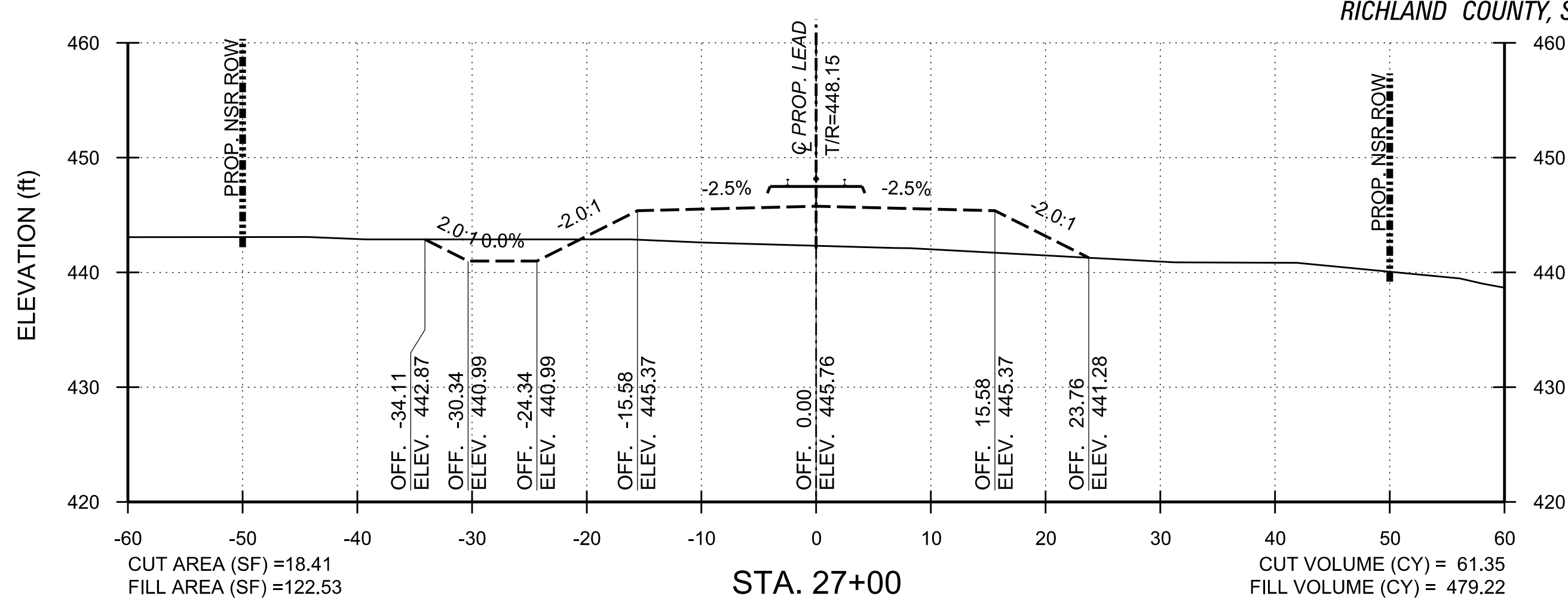
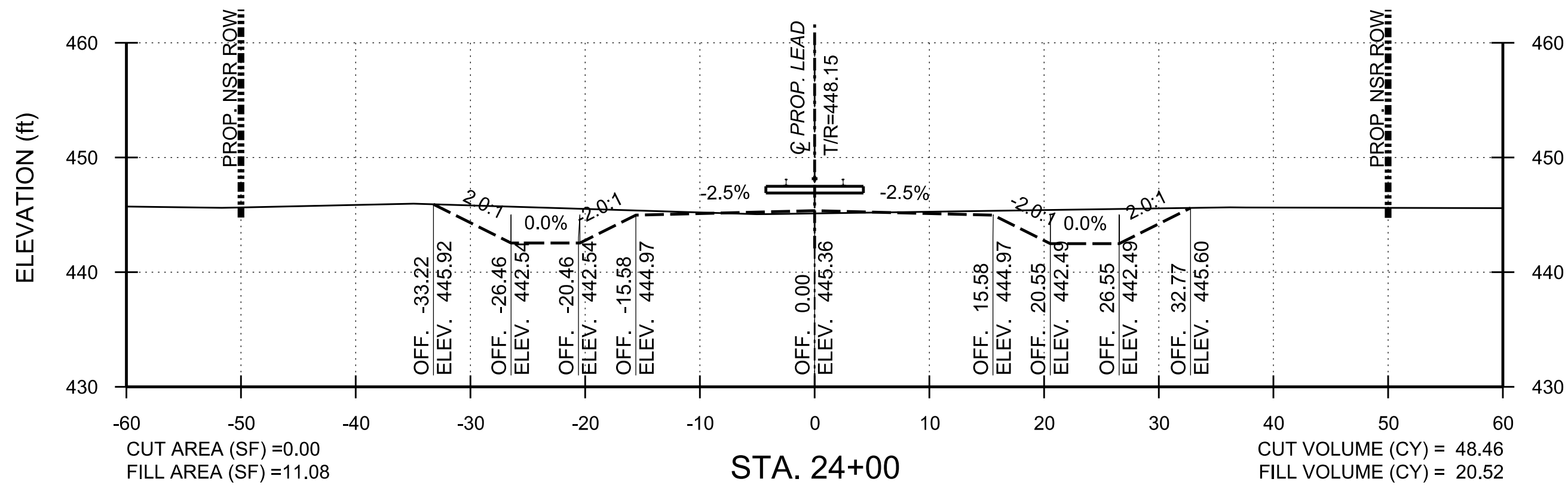


CROUCH ENGINEERING INC.  
5115 MARYLAND WAY, STE 225  
BRENTWOOD, TN 37027  
PHONE NO. (615) 791-0630

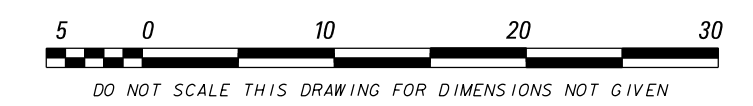


**NORFOLK SOUTHERN**  
NORFOLK SOUTHERN RAILWAY COMPANY  
OPERATING DIVISION  
OFFICE OF THE CHIEF ENGINEER - DESIGN AND CONSTRUCTION - ATLANTA, GA.

REV. BY:	DATE:	DESCRIPTION:
		BLYTHEWOOD, SC
TITLE: PROPOSED TRACKS TO SERVE PROJECT SCOUT CROSS SECTIONS		
DWN:	PTD NO.:	VRN:
EVU	D3327	04825
CHK:	FILE NO.:	DRAWING NUMBER:
	TRK115024	
	DATE:	
	MARCH 5, 2024	
		TD-2023-105

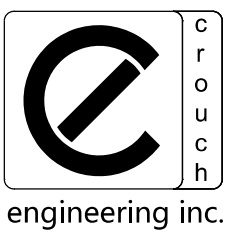


SCALE: 1" = 10'

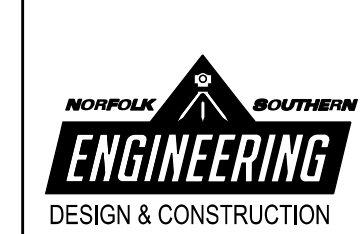


**PHASE 1**

PROJECT NO:	23050
DATE:	
DRAWN BY:	EVU
CHECKED BY:	
REVISIONS:	



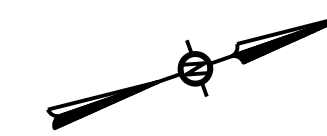
CROUCH ENGINEERING INC.  
5115 MARYLAND WAY, STE 225  
BRENTWOOD, TN 37027  
PHONE NO. (615) 791-0630



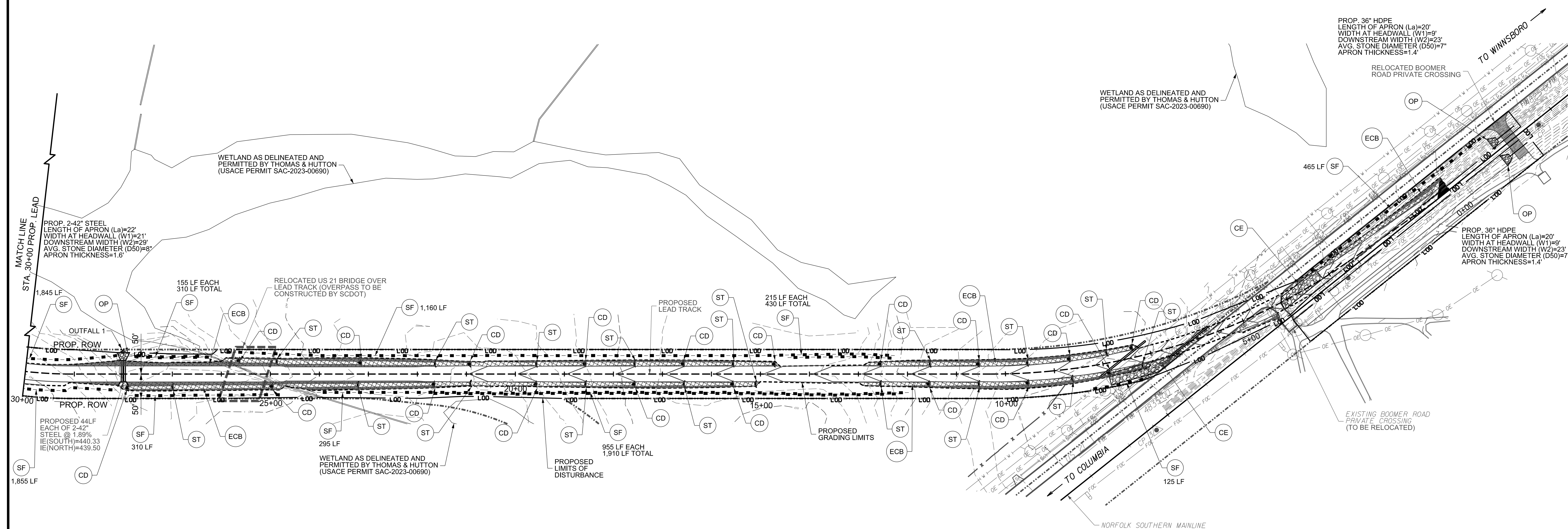
**NORFOLK SOUTHERN**  
NORFOLK SOUTHERN RAILWAY COMPANY  
OPERATING DIVISION  
OFFICE OF THE CHIEF ENGINEER - DESIGN AND CONSTRUCTION - ATLANTA, GA.

REV	BY	DATE	DESCRIPTION
R1	EVU/DA/02/24		UPDATED STEEL PIPE DESIGN WITH HEADWALL
LOCATION: BLYTHEWOOD, SC			
TITLE: PROPOSED TRACKS TO SERVE PROJECT SCOUT CROSS SECTIONS			
DWN	EVU	PTD NO. D3327	YRIN 04825
CHK	EVU	FILE NO. TRK115024	DRAWING NUMBER R91.4
DATE: MARCH 5, 2024			TD-2023-105-R1





\*TREE AND BRUSH CLEARING SHALL BE PERFORMED BETWEEN US 21 AND THE NSR MAINLINE FROM RIMER POND ROAD TO RELOCATED BOOMER ROAD.

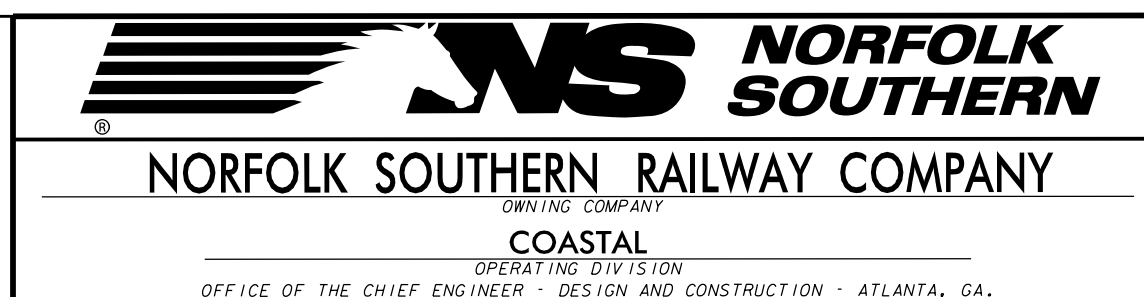
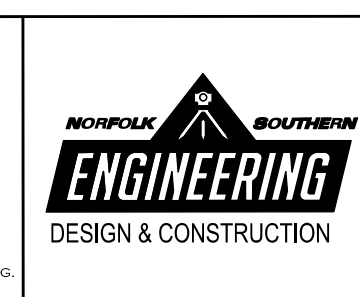


LEGEND			
EXISTING MINOR CONTOURS	---	(SF) SILT FENCE	---
EXISTING MAJOR CONTOURS	----	(CE) CONSTRUCTION EXIT	[Pattern]
PROPOSED MINOR CONTOURS	---	(CD) CHECK DAM	[Symbol]
PROPOSED MAJOR CONTOURS	----	(ST) SEDIMENT TUBE	[Symbol]
PROPOSED TRACKS	---	(OP) OUTLET PROTECTION	[Symbol]
LIMITS OF GRADING	---	(ECB) EROSION CONTROL MATTING	[Pattern]
LIMITS OF DISTURBANCE	---	(IP) INLET PROTECTION	[Symbol]
OUTFALLS	*		

**PHASE 1**

PROJECT NO:	23050
DATE:	
DRAWN BY:	EJU
CHECKED BY:	
REVISIONS:	

**CROUCH ENGINEERING INC.**  
 5115 MARYLAND WAY, STE 225  
 BRENTWOOD, TN 37027  
 PHONE NO. (615) 791-0630



SCALE:	1" = 100'
DATE:	MARCH 5, 2024
PROJECT:	BLYTHEWOOD, SC
TITLE:	PROPOSED TRACKS TO SERVE PROJECT SCOUT PROPOSED LEAD STA 0+00 - 30+00 EROSION AND SEDIMENT CONTROL
DRN:	EJU
CHK:	
FILE NO.:	D3327
PROJECT NO.:	TRK1115024
DRAWING NUMBER:	04825
MILE POST:	R91.4
DATE:	MARCH 5, 2024
PROJECT NUMBER:	TD-2023-105-R1

