

03-06-2020 LETTING ITEM 105

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

**PLANS FOR PROPOSED
LOCAL AGENCY PROJECT**

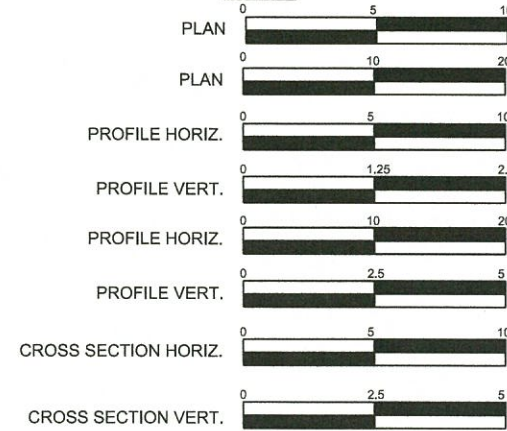
**BOLM - SCHUHKRAFT CONNECTOR TRAIL
SECTION 17-00054-00-BT
PROJECT NO. YLRG(482)
CITY OF COLUMBIA, ILLINOIS
MONROE COUNTY
JOB NO. C-98-003-19
TAP PROGRAM**

F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
MUN 1194	17-00054-00-BT	MONROE	46	1
STA. 10+09.09	TO STA. 40+21.75			
FEDERAL AID PROJECT			CONTRACT 97701	

INDEX OF SHEETS

- 1 COVER
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SCALES:

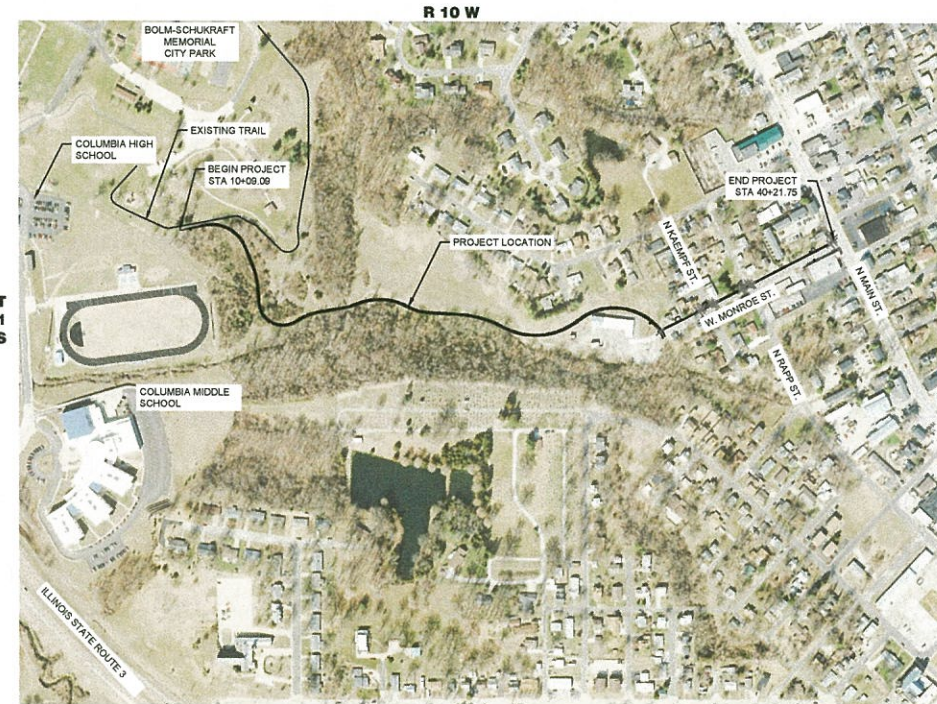


MONROE STREET

ROADWAY DESIGNATION: SHARED-USE TRAIL
DESIGN SPEED: 30 MPH
CURRENT ADT: 300 VPD
DESIGN YEAR (2039) ADT: 370 VPD

BOLM-SCHUHKRAFT CONNECTOR TRAIL

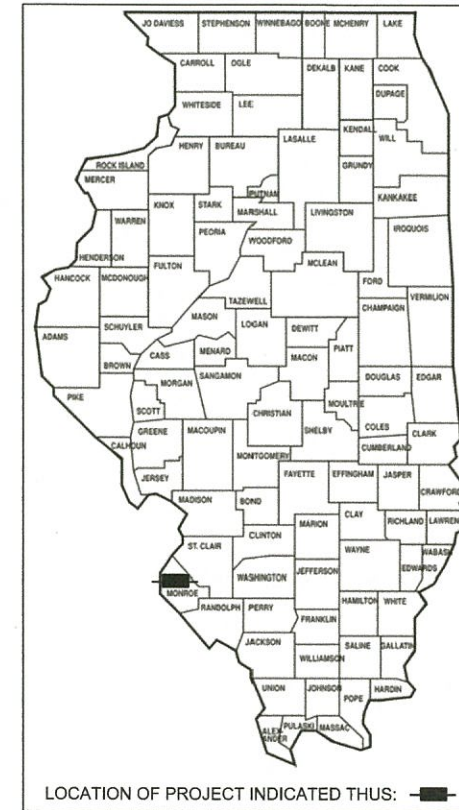
ROADWAY DESIGNATION: LOCAL ROAD
DESIGN SPEED: 20 MPH <4%, 30 MPH ≥ 4%
CURRENT ADT: 0
DESIGN YEAR (2039) ADT: 75



LOCATION MAP
NOT TO SCALE

LENGTH OF IMPROVEMENT

NET LENGTH BOLM - SCHUHKRAFT TRAIL - STA. 10+09.09 TO 32+42.43 - 2233.34 FT. = 0.423 MI.
NET LENGTH WEST MONROE STREET - STA. 32+42.43 TO 40+21.75 - 779.32 FT. = 0.148 MI.
GROSS LENGTH OF IMPROVEMENT - 3012.66 FT. = 0.571 MI.



STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

APPROVED: 12-21-19 DATE
[Signature]
MAYOR, CITY OF COLUMBIA

PASSED: December 19, 2019 DATE
[Signature]
DISTRICT 8 ENGINEER OF LOCAL ROADS & STREETS

RELEASED FOR BID
BASED ON LIMITED REVIEW: December 19, 2019 DATE
[Signature]
REGION FIVE ENGINEER

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PRIOR TO DIGGING,
CONTRACTOR IS TO CALL J.U.L.I.E.
AT 800.892.0123 TO VERIFY LOCATION
AND ELEVATION OF EXISTING
UNDERGROUND UTILITIES

PREPARED BY:

gonzalez
GONZALEZ COMPANIES, LLC
525 WEST MAIN STREET
SUITE 125
BELLEVILLE, IL 62220
PHONE: (618) 222-2221
WWW.GONZALEZCOS.COM

ILLINOIS PROFESSIONAL DESIGN FIRM 184.004564



[Signature]
Anthony A. Schenk
12-2-19 Date of Signing
11-30-21 Date of License Expiration

M:\Projects\2017\17-005_City of Columbia Bolm-Schuhkraft Connector Trail\20 Design\CADD\SHEETS\17-265 COVER SHEET.dwg
Printed on: 12/7/2019 1:16 PM
Plotted By: Tony Schenk

F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
MUN 1194	17-00054-00-BT	MONROE	46	2
FEDERAL AID PROJECT		CONTRACT 97701		

GENERAL NOTES

- 1.) THE PROPOSED EMBANKMENT SHALL BE BENCHED INTO THE EXISTING SLOPES TO THE SATISFACTION OF THE ENGINEER.
- 2.) "ROAD CONSTRUCTION AHEAD" SIGNS SHALL BE PLACED AT THE BEGINNING AND END OF THE PROJECT PLUS THE INTERSECTING SIDE ROADS AND WILL BE INCLUDED IN THE TRAFFIC CONTROL PAY ITEMS. ALL CONSTRUCTION SIGNS SHALL BE FLUORESCENT ORANGE 48"X48".
- 3.) ALL AREAS DISTURBED FOR ANY REASON SHALL BE SEEDED WITH CLASS 2 SEEDING. NUTRIENTS SHALL CONFORM TO ARTICLE 250.04. AREAS DISTURBED BEYOND THE CONSTRUCTION LIMITS SHALL BE SEEDED BY THE CONTRACTOR AT HIS/HER OWN EXPENSE.
- 4.) THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING OF MATERIALS.
- 5.) THE COST OF REMOVING AND RELOCATING ALL EXISTING TRAFFIC SIGNS WITHIN THE LIMITS OF CONSTRUCTION SHALL BE INCLUDED IN THE COST OF THE CONTRACT.
- 6.) AN ESTIMATED QUANTITY OF 100 TONS OF AGGREGATE FOR TEMPORARY ACCESS HAS BEEN INCLUDED IN THE PLANS FOR THE PURPOSE OF MAINTAINING ACCESS TO PRIVATE PROPERTY AND LOCAL TRAFFIC THROUGHOUT CONSTRUCTION OPERATIONS.
- 7.) FACTORS USED FOR APPLICATION RATES AND QUANTITY CALCULATIONS ARE AS FOLLOWS:

PAVING	
ALL HOT-MIX ASPHALT	0.056 TONS/SQ YD/INCH
BITUMINOUS MATERIALS (PRIME COAT)	0.05 LBS/SQ FT (HMA, PCC)
	0.25 LBS/SQ FT (AGG)
AGGREGATE BASE COURSE	0.025 LBS/ SQ FT (FOG COAT)
	0.0555 TONS/SQ YD/INCH
SEEDING	
NITROGEN FERTILIZER NUTRIENT	90 LBS/ACRE
PHOSPHORUS FERTILIZER NUTRIENT	90 LBS/ACRE
POTASSIUM FERTILIZER NUTRIENT	90 LBS/ACRE
MULCH	2 TONS/ACRE
TEMPORARY EROSION CONTROL SEEDING	100 LBS/ACRE

- 8.) CHANGES IN THE VERTICAL OR HORIZONTAL DIMENSIONS OF GUTTERS, CURBS, OR CURB AND GUTTERS, WHEN TRANSITIONS FROM ONE TYPE TO ANOTHER AS SHOWN IN THE PLANS, WILL BE PAID FOR AT THE CONTRACT PRICE PER FOOT FOR THE TYPE SPECIFIED IN THE PLAN SCHEDULE.
- 9.) THE REMOVAL OF ANY CURB/CURB AND GUTTER SHALL ALSO INCLUDE THE DISCONNECTION OF THE EXISTING CURB/CURB AND GUTTER FROM ANY REINFORCEMENT OR COLLATERAL MATERIAL THAT MAY BE PRESENTLY ATTACHED. THERE SHALL NOT BE ANY ADDITIONAL REMUNERATION BUT THIS WORK SHALL BE CONSIDERED AS INCLUDED IN THE REMOVAL ITEM.
- 10.) WHEN THE PLANS OR SPECIAL PROVISIONS INCLUDE INFORMATION PERTAINING TO THE LOCATION OF UNDERGROUND FACILITIES, SUCH INFORMATION REPRESENTS ONLY THE OPINION OF THE CITY OF COLUMBIA AS TO THE LOCATION OF SUCH UTILITIES AND IS ONLY INCLUDED FOR THE CONVENIENCE OF THE BIDDER.
- 11.) THE ENGINEER SHALL BE THE SOLE JUDGE CONCERNING CURING TIME FOR THE VARIOUS HOT-MIX ASPHALT.
- 12.) TEMPORARY CONSTRUCTION EASEMENTS, WHICH PROVIDE FOR WORK THAT IS TO BE DONE, ARE DEPICTED ON THE PLANS AND SHALL NOT BE USED FOR ANY PURPOSE OTHER THAN THAT WHICH IS NECESSARY TO ADJUST THE PROPERTY TO THAT REQUIRED BY THE CONTRACT PLANS. THE CONTRACTOR SHALL NOT USE THE EASEMENT AREAS FOR STORAGE OF MATERIAL OR EQUIPMENT.
- 13.) BEDDING AND TRENCH BACKFILL SHALL BE INCLUDED IN THE COST OF THE PIPE CULVERT/STORM SEWER PAY ITEMS.

- 15.) THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT PRIVATE PROPERTY CONTIGUOUS WITH THE WORK. SPECIFICALLY, THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL LANDSCAPING, TREES AND FENCES WHICH ARE NOT CALLED OUT TO BE REMOVED. ALL PRIVATE PROPERTY THAT IS DAMAGED OR DESTROYED SHALL BE RESTORED TO A CONDITION EQUAL TO THAT EXISTING PRIOR TO DAMAGE ACCORDING TO ARTICLE 107.20 OF THE 'STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.'
- 16.) THE CONTRACTOR SHALL COORDINATE WITH RESIDENTS PRIOR TO REMOVAL AND REPLACEMENT OF DRIVEWAYS.
- 17.) THE TOP 6 INCHES OF ALL NECESSARY BACKFILL SHALL BE FREE FROM ALL ROCK, ROOT AND FOREIGN DEBRIS.
- 18.) AN ESTIMATED QUANTITY OF 50 FOOT FOR LOCATING UNDERGROUND UTILITIES HAS BEEN INCLUDED IN THE PLANS FOR THE PURPOSE OF LOCATING UTILITIES PRIOR TO CONSTRUCTION IN ACCORDANCE WITH THE SPECIAL PROVISIONS.

COMMITMENTS

FROM THE NATURAL RESOURCES REVIEW - TREES THREE (3) INCHES OR GREATER IN DIAMETER AT BREST HEIGHT SHALL NOT BE CLEARED APRIL 1 THROUGH SEPTEMBER 30.

TREES FOUND ON STRAUB PROPERTY (LOCATED AT THE INTERSECTION OF N. RAPP AND MONROE) SHALL BE PROTECTED DURING CONSTRUCTION.

APPLICABLE IDOT HIGHWAY STANDARDS:

000001-07	602701-02	720006-04
280001-07	604001-05	720011-01
420701-03	604056-04	729001-01
424001-11	606001-07	BLR 14-12
424011-04	701501-06	
424006-04	701801-06	
602306-03	701901-08	
602601-06	720001-01	

UTILITIES

HARRISONVILLE TELEPHONE CO
ATTN: THOMAS SCHRIEBER
213 S. MAIN ST. P.O. BOX 149
WATERLOO, IL 62298
(618)939-9256

CHARTER COMMUNICATIONS (CABLE)
ATTN: CEDRICK GILLESPIE
941 CHARTER COMMONS
TOWN & COUNTRY, MO 63017
(636)387-6633

CITY OF COLUMBIA (WATER/ SEWER)
ATTN: CHRIS SMITH
208 S RAPP AVE
COLUMBIA, IL 62208
(618)281-7144

AMEREN IP (ELECTRIC & GAS)
ATTN: DAVE SCHULTE
500 EAST BROADWAY
EAST ST. LOUIS, IL 62201
(618)482-2260

MIXTURE REQUIREMENTS - PROJECT THE FOLLOWING MIXTURE REQUIREMENTS ARE APPLICABLE FOR THIS PROJECT		
LOCATION (S):	CITY OF COLUMBIA	
MIXTURE USE	SURFACE COURSE	INCIDENTAL HMA SURFACING
AC/PG:	PG 64-22	PG 64-22
RAP %: (MAX)	15%	15%
DESIGN AIR VOIDS:	4.0% @ NDES=30	4.0% @ NDES=30
MIXTURE COMPOSITION (GRADATION MIXTURE)	IL 9.5	IL 9.5
FRICTION AGGREGATE:	MIXTURE C	MIXTURE C

F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
MUN 1194	17-00054-00-BT	MONROE	46	3
STA.		TO STA.		
FEDERAL AID PROJECT		CONTRACT 97701		

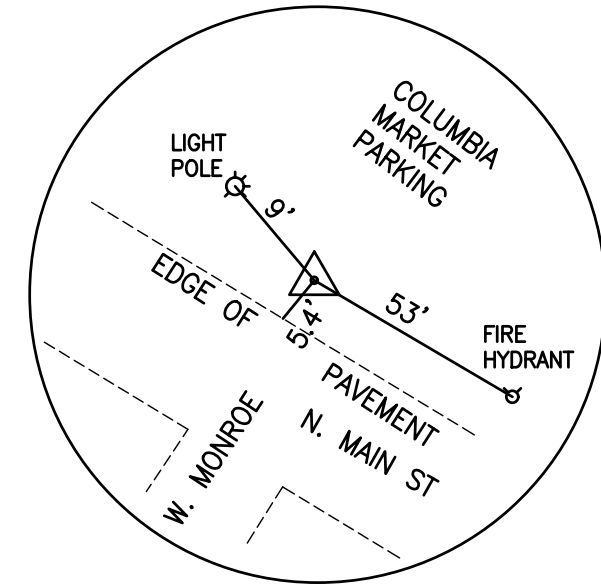
SUMMARY OF QUANTITIES			
ITEM NO.	ITEM DESCRIPTION	UNIT	QUANTITY
20200100	EARTH EXCAVATION	CU. YD.	1755
Δ 25000200	SEEDING, CLASS 2	ACRE	1.25
Δ 25000400	NITROGEN FERTILIZER NUTRIENT	POUND	113
Δ 25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	113
Δ 25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	113
Δ 25100115	MULCH, METHOD 2	ACRE	1.25
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	125
28000305	TEMPORARY DITCH CHECKS	FOOT	240
28000400	PERIMETER EROSION BARRIER	FOOT	325
28000500	INLET AND PIPE PROTECTION	EACH	6
28001100	TEMPORARY EROSION CONTROL BLANKET	SQ. YD.	880
28100705	STONE DUMPED RIPRAP, CLASS A3	SQ. YD.	62
28100707	STONE DUMPED RIPRAP, CLASS A4	SQ. YD.	24
28200200	FILTER FABRIC	SQ. YD.	86
31102100	SUBBASE GRANULAR MATERIAL, TYPE C 4"	SQ. YD.	236
35100300	AGGREGATE BASE COURSE, TYPE A 4"	SQ. YD.	280
35100700	AGGREGATE BASE COURSE, TYPE A 8"	SQ. YD.	2513
35101600	AGGREGATE BASE COURSE, TYPE B 4"	SQ. YD.	124
40201000	AGGREGATE FOR TEMPORARY ACCESS	TON	100
40600275	BITUMINOUS MATERIALS (PRIME COAT)	POUND	572
40604090	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "C", N30	TON	384
40800050	INCIDENTAL HOT-MIX ASPHALT SURFACING	TON	79
42000060	WELDED WIRE REINFORCEMENT	SQ. YD.	66
42000100	PORTLAND CEMENT CONCRETE PAVEMENT, 6"	SQ. YD.	260
42300200	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 6 INCH	SQ. YD.	124
42400100	PORTLAND CEMENT CONCRETE SIDEWALK 4 INCH	SQ. FT.	3447
42400800	DETECTABLE WARNINGS	SQ. FT.	112
44000100	PAVEMENT REMOVAL	SQ. YD.	252
44000200	DRIVEWAY PAVEMENT REMOVAL	SQ. YD.	101

SUMMARY OF QUANTITIES			
ITEM NO.	ITEM DESCRIPTION	UNIT	QUANTITY
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	40
44000600	SIDEWALK REMOVAL	SQ. FT.	156
50105220	PIPE CULVERT REMOVAL	FOOT	88
Δ 50901760	PIPE HANDRAIL	FOOT	16
52200800	SEGMENTAL CONCRETE BLOCK WALL	SQ. FT.	492
542A0235	PIPE CULVERTS, CLASS A, TYPE 1 30"	FOOT	56
550A2320	STORM SEWERS, RUBBER GASKET, CLASS A, TYPE 1 12"	FOOT	309
60240210	INLETS, TYPE B, TYPE 1 FRAME, OPEN LID	EACH	1
60240312	INLETS, TYPE B, TYPE 11V FRAME AND GRATE	EACH	2
60255500	MANHOLES TO BE ADJUSTED	EACH	4
60500060	REMOVING INLETS	EACH	2
60603800	COMBINATION CONCRETE CURB & GUTTER, TYPE B-6.12	FOOT	748
60605000	COMBINATION CONCRETE CURB & GUTTER, TYPE B-6.24	FOOT	27
60608562	COMBINATION CONCRETE CURB & GUTTER, TYPE M-4.12	FOOT	12
67100100	MOBILIZATION	LUMP SUM	1
Δ 72000100	SIGN PANEL - TYPE 1	SQ. FT.	25
Δ 72900100	METAL POST - TYPE A	FOOT	83
LR430010	PAVING BRICK PAVEMENT FOR LIGHT TRAFFIC	SQ. YD.	17
LR430040	PAVING BRICK SIDEWALK	SQ. YD.	6
X0323389	STORM SEWER CONNECTION	EACH	3
X0326864	BRICK SIDEWALK REMOVAL	SQ. FT.	52
X0327235	LOCATING UNDERGROUND UTILITIES	FOOT	50
X2010505	CLEARING, SPECIAL	LUMP SUM	1
X6024242	INLETS, SPECIAL, NO. 1	EACH	3
X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	LUMP SUM	1
Z0004002	BOLLARDS	EACH	3
Z0012450	CONCRETE STEPS	CU. YD.	2
Z0012455	CONCRETE STEP REMOVAL	EACH	2
Z0056608	STORM SEWER (WATER MAIN REQUIREMENTS) 12 INCH	FOOT	105

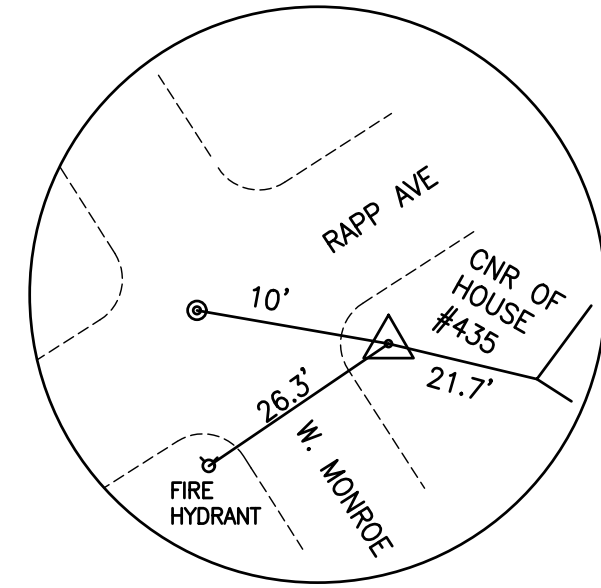
Δ SPECIALTY ITEMS

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 Plotted By: Tony Schank

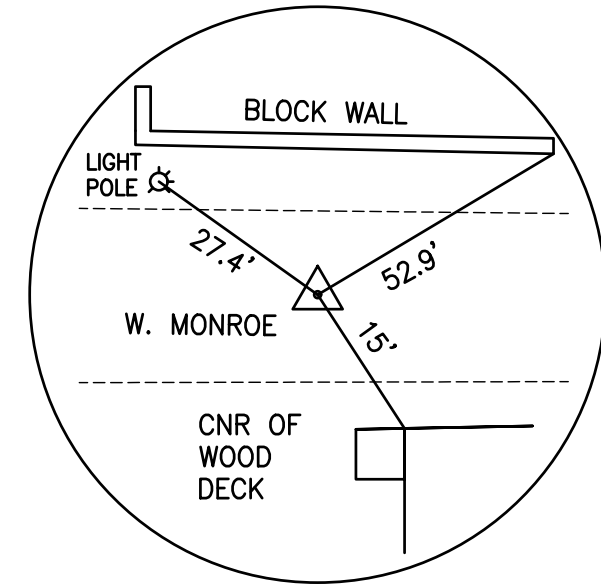
F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
MUN 1194	17-00054-00-BT	MONROE	46	4
FEDERAL AID PROJECT		CONTRACT 97701		



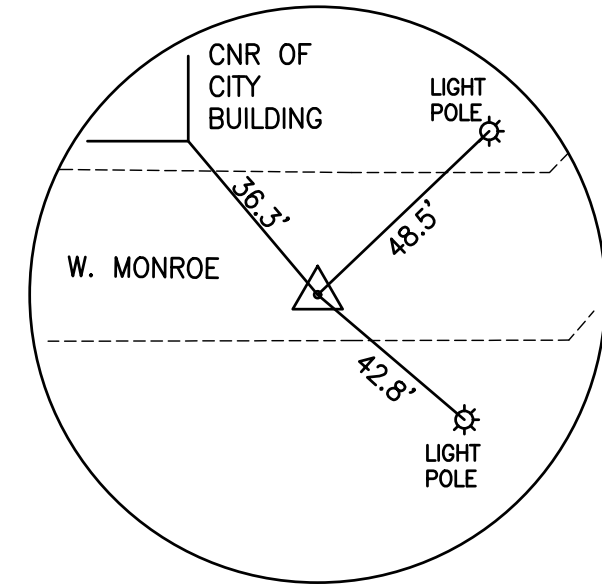
CP# 100
MAG NAIL
N: 48105.43'
E: 86040.00'
Z: 492.68'



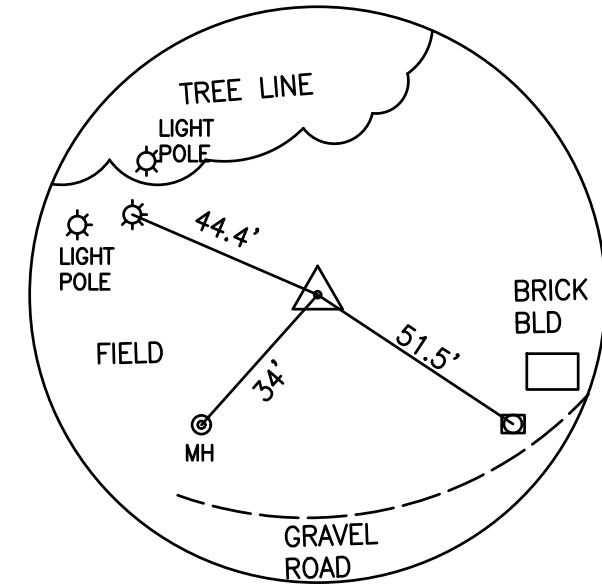
CP# 101
MAG NAIL
N: 47891.52
E: 85646.34'
Z: 491.44'
STA. 36+21.78 OF. 21.287



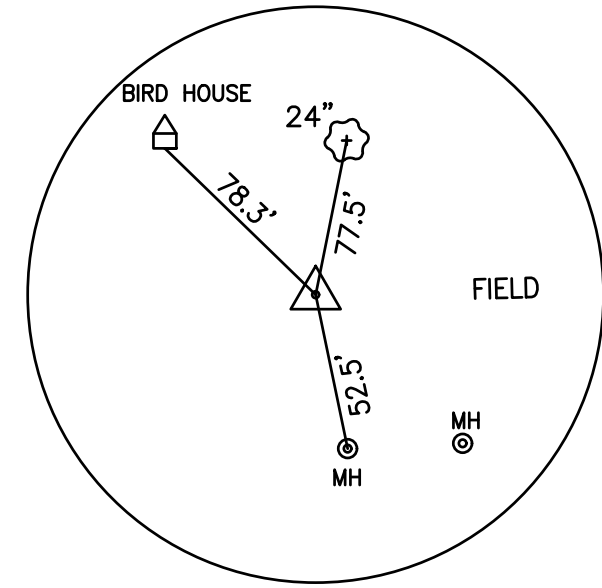
CP# 102
MAG NAIL
N: 47774.98'
E: 85412.18
Z: 485.13'
STA. 33+60.15 OF. 17.44



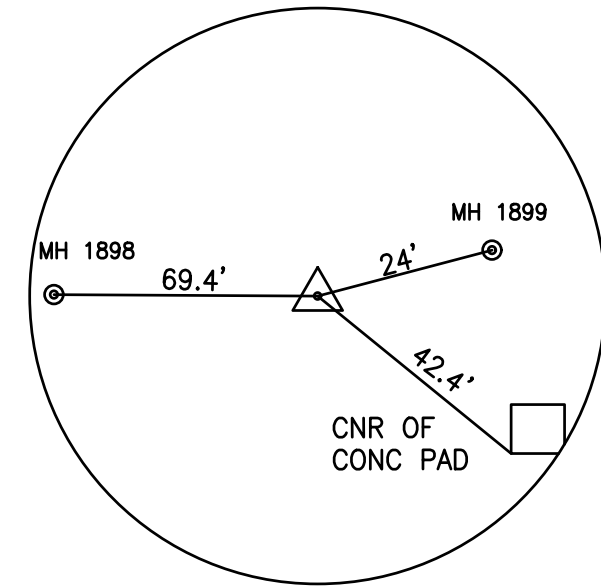
CP# 103
MAG NAIL
N: 47683.76'
E: 85205.59'
Z: 467.95'
STA. 32+13.97 OF. 107.103



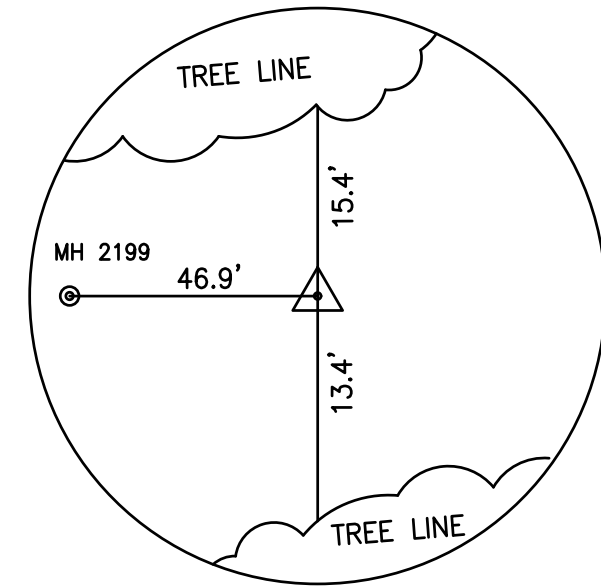
CP# 104
IR W/CAP
N: 47746.95'
E: 84846.45'
Z: 465.17'
STA. 27+39.01 OF. 26.681



CP# 105
IR W/CAP
N: 47861.16'
E: 84579.44'
Z: 467.98'
STA. 24+39.96 OF. -72.051



CP# 107
IR W/CAP
N: 47831.94'
E: 84017.86'
Z: 436.73'
STA. 18+81.10 OF. -14.001

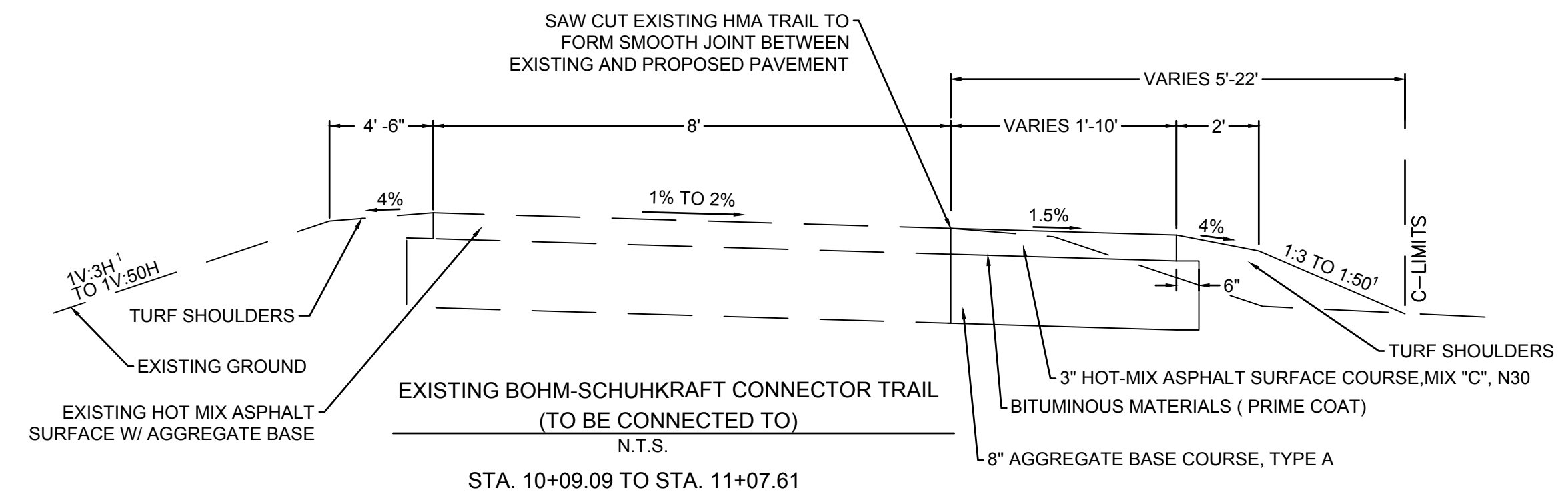


CP# 108
IR W/CAP
N: 47731.79'
E: 83777.43'
Z: 443.29'
STA. 16+39.71 OF. 37.720

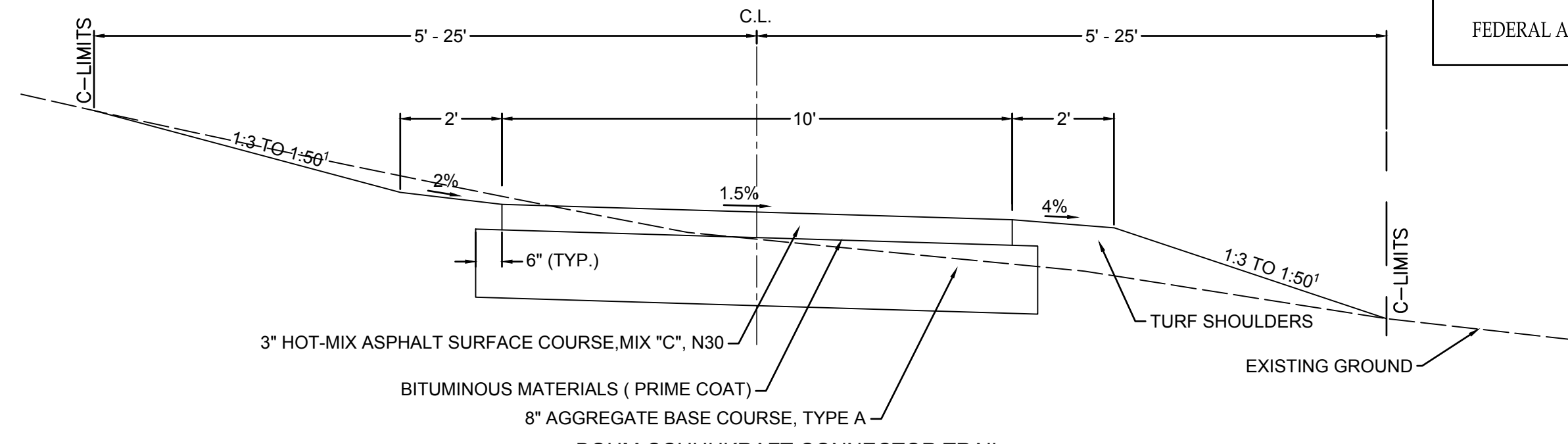
ALIGNMENT TABLE			
Line #	START STATION	NORTHING	EASTING
L1	9+81.67	648128.44	2283378.16
L2	10+09.09	648131.31	2283405.43
L3	13+01.26	648063.13	2283659.56
L4	14+52.24	647920.33	2283706.53
L5	18+33.06	647810.91	2283972.44
L6	19+67.17	647837.87	2284103.49
L7	21+62.57	647832.70	2284292.80
L8	22+66.15	647804.41	2284391.56
L9	25+39.98	647758.14	2284658.96
L10	32+34.85	647742.83	2285296.20
L11	32+42.43	647736.10	2285299.70
L12	34+52.84	647833.24	2285486.34

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Plotted on: 12/6/2019 10:00 AM
Plotted By: Ian Gunn

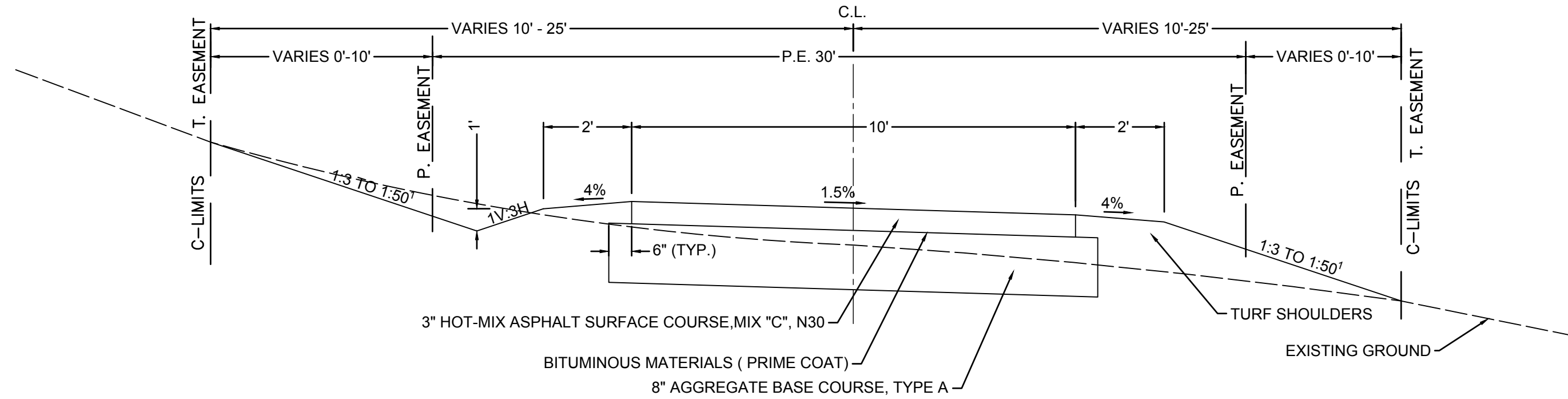
F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
MUN 1194	17-00054-00-BT	MONROE	46	5
STA. 10+09.09 TO STA. 40+21.75				
FEDERAL AID PROJECT		CONTRACT 97701		



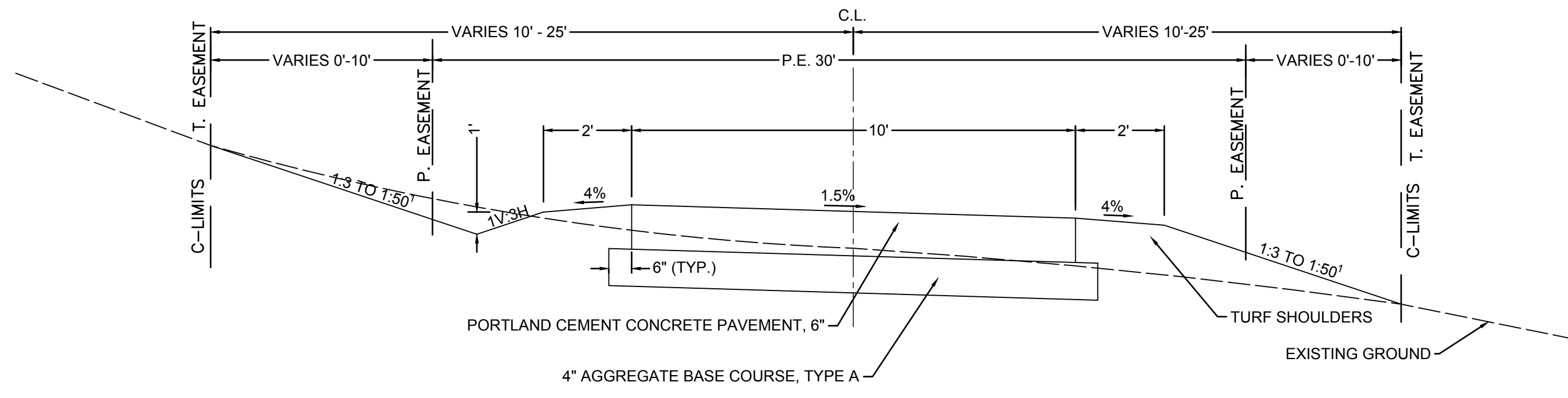
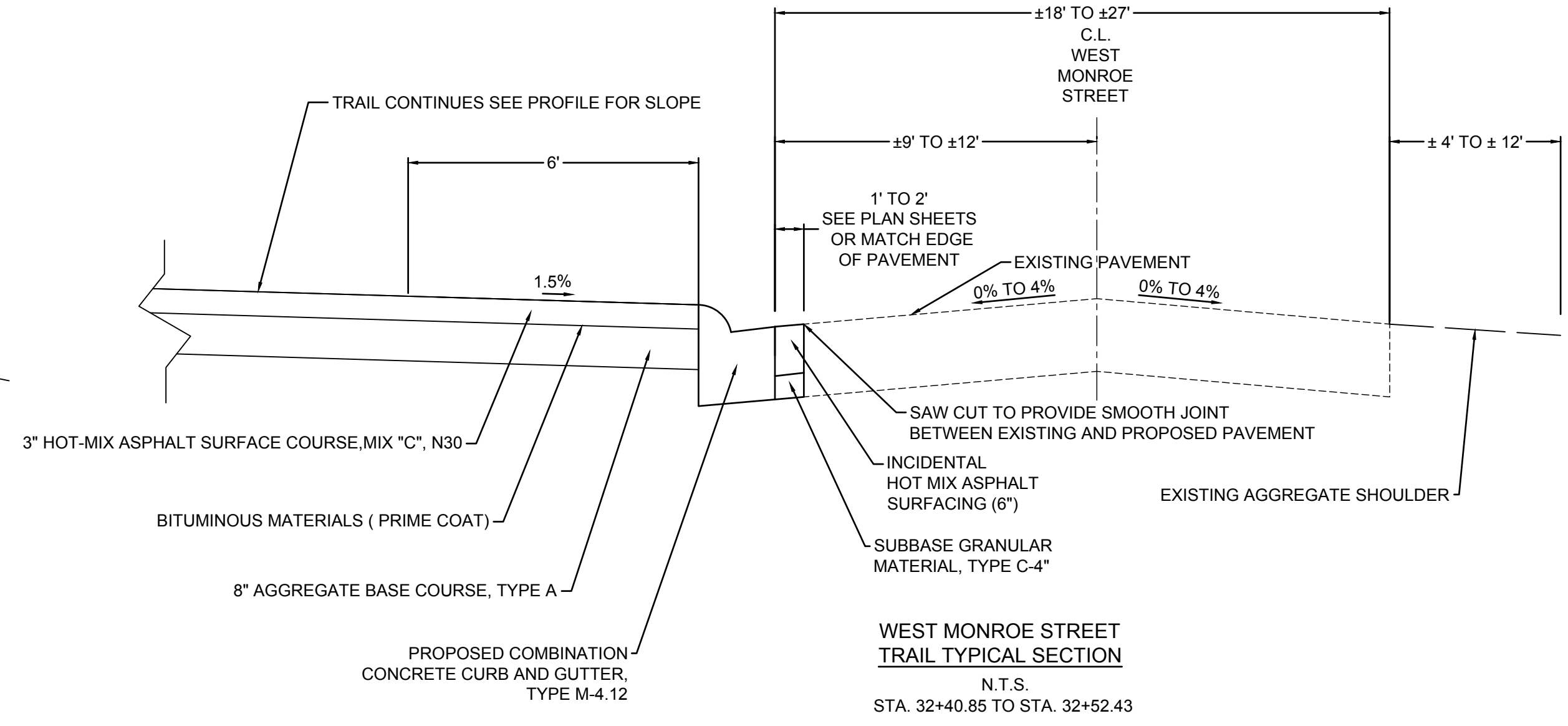
1. SEE CROSS SECTIONS FOR VARIABLE SLOPES



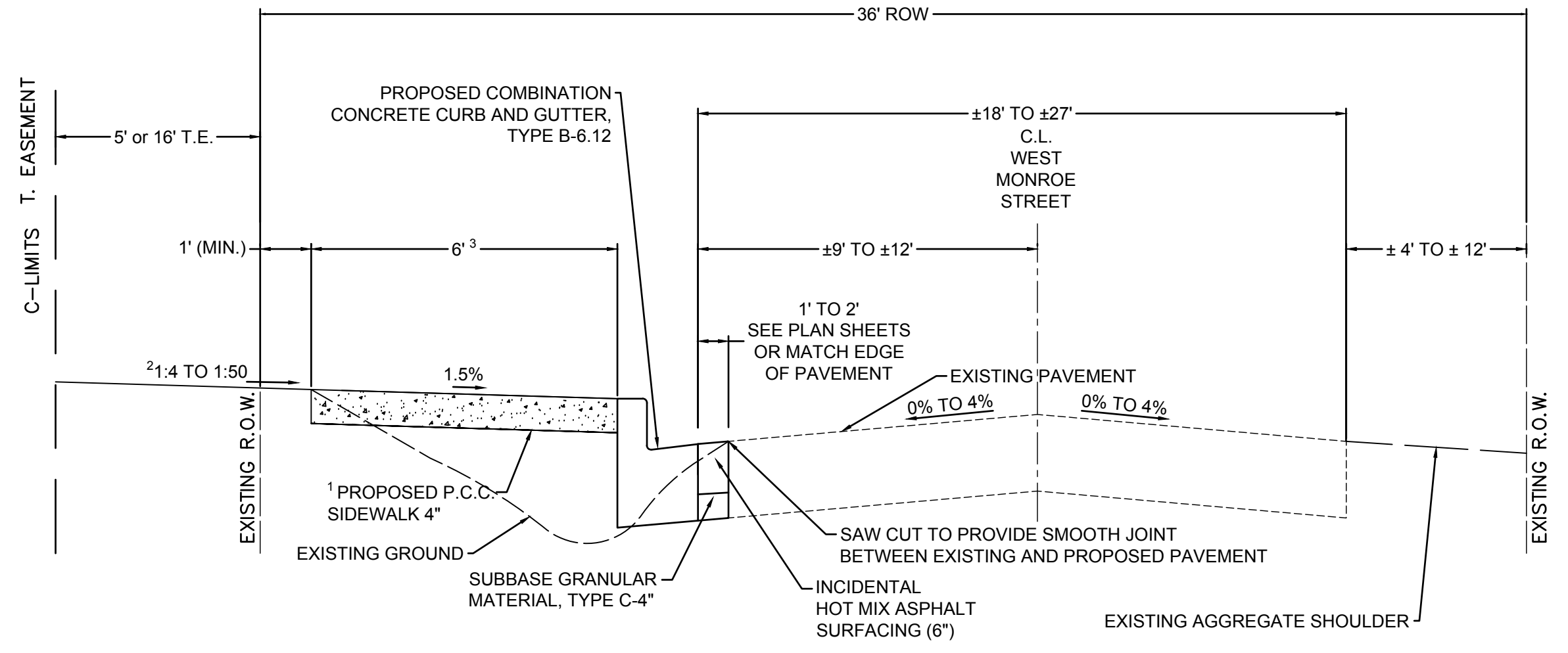
1. SEE CROSS SECTIONS FOR VARIABLE SLOPES



1. SEE CROSS SECTIONS FOR VARIABLE SLOPES
 2. NO EASEMENTS (CITY PROPERTY) FROM STA 16+06 TO STA 17+77



1. SEE CROSS SECTIONS FOR VARIABLE SLOPES



1. SEE CROSS SECTIONS FOR VARIABLE SLOPES
 2. REDUCE TO 4' (TO MATCH RETAINING WALL) STA. 33+45.25 TO 34+07.15

M:\Projects\2017\17-265 City of Columbia Balm-Schuhkraft Connector Trail\20 Design\CADD\SHEETS\17-265 Typical Sections.dwg
 Plotted on: 12/6/2019 10:00 AM
 Plotted By: Ian Gunn

F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
MUN 1194	17-00054-00-BT	MONROE	46	6
STA.		TO STA.		
FEDERAL AID PROJECT		CONTRACT 97701		

STORM SEWER & DRAINAGE STRUCTURE SCHEDULE				
STRUCTURE	LOCATION STATION / OFFSET	DESCRIPTION	RIM	INVERTS
1	31+49.31 20.66'R	Inlets, Special No. 1 (3'x3') (Area Inlet)	467.53	463.40 S
2	32+52.02 20.32'R	Inlets, Type B, Type 1 Frame, Open Lid	478.21	474.62 N 474.61 SW 474.61 NE
3	32+57.43 1.49'L	Inlets, Type B, Type 11V Frame & Lid	478.61	474.93 NE 474.73 S
4	34+06.67 0.58'L	Inlets, Type B, Type 11V Frame & Grate	487.99	484.61 NE 484.41 SW
5	34+95.93 3.00'L	Inlets, Special No. 1 (3'x3') (Curb Inlet)	490.38	487.16 NE 486.94 SW
6	36+62.30 3.00'L	Inlets, Special No. 1 (3'x3') (Curb Inlet)	491.90	487.98 SW

NOTE: STATION, OFFSETS TO FOR ALL INLETS AND MANHOLES ARE AT THE CENTER OF THE DRAINAGE STRUCTURE. COORDINATES FOR END SECTIONS ARE AT THE END OF SECTION AT THE CENTER OF THE STRUCTURE. SEE DETAILS FOR INLET SPECIAL DIMENSIONS. USE PRECAST REINFORCED FLAT SLAB TOPS WHEN REQUIRED. RIM ELEVATION IS TO THE FLAG OF CURB WHEN APPLICABLE.

DRAINAGE REMOVAL SCHEDULE			
LOCATION	DESCRIPTION	PIPE CULVERT REMOVAL	REMOVING INLETS
		FOOT	EACH
STA. 19+26	30" CMP	24	
STA. 31+41 RT	EXISTING INLET		1
STA. 31+45 RT	12" RCP	23	
STA. 34+49 LT	12" CMP	41	
STA. 34+67 LT	EXISTING INLET		1
TOTALS		88	2

NOTE: TRENCH BACKFILL SHALL BE INCLUDED IN THE REMOVAL ITEMS AS REQUIRED

TEMPORARY EROSION CONTROL BLANKET	
LOCATION	TEMPORARY EROSION CONTROL BLANKET SQ YD
STA. 12+00 TO 15+60	629
STA. 16+62 TO 18+50	84
STA. 29+50 TO 30+75	167
TOTAL	880

RIPRAP SCHEDULE				
LOCATION	STONE DUMPED RIPRAP CLASS A3	STONE DUMPED RIPRAP CLASS A4	FILTER FABRIC	AGGREGATE BEDDING
	SQ YD	SQ YD	SQ YD	TON
STA. 15+56.38 TO 16+61.00, LT	62		62	
STA. 19+24.18, LT		12	12	4
STA. 19+27.00, RT		12	12	4
TOTALS	62	24	86	8

NOTE: AGGREGATE BEDDING QUANTITY PROVIDED FOR INFORMATION ONLY

STORM SEWER SCHEDULE								
PIPE NO.	START PIPE STRUCTURE	END PIPE STRUCTURE	PIPE DESCRIPTION	PIPE SIZE	PIPE LENGTH	UPSTREAM INVERT ELEV.	DOWNSTREAM INVERT ELEV.	PIPE SLOPE
1	OPEN DITCH	OPEN DITCH	Pipe Culverts, Class A, Type 1 - 30"	30"	28'	432.32	432.04	1.00%
2	OPEN DITCH	OPEN DITCH	Pipe Culverts, Class A, Type 1 - 30"	30"	28'	432.32	432.04	1.00%
3	3	2	Storm Sewers (Water Main Requirements) 12"	12"	19'	474.73	474.62	0.58%
4	4	3	Storm Sewers, Rubber Gasket, Class A, Type 1 - 12"	12"	146'	484.41	474.93	6.48%
5	5	4	Storm Sewers (Water Main Requirements) 12"	12"	86'	486.94	484.61	2.70%
6	6	5	Storm Sewers, Rubber Gasket, Class A, Type 1 - 12"	12"	163'	487.98	487.16	0.50%

NOTE: ELEVATIONS AT END OF END SECTION WHERE APPLICABLE PIPE LENGTHS SHOWN IN SCHEDULE ARE MEASURED INSIDE EDGE-INSIDE EDGE OF STRUCTURE AND/OR ARE TO THE END OF END SECTION. PAYMENT SHALL BE ACCORDING TO SECTION 540, 542 OR 550 OF THE STANDARD SPECIFICATIONS

TEMPORARY DITCH CHECKS	
LOCATION	TEMPORARY DITCH CHECKS FOOT
STA. 11+07 TO 24+75	240
TOTAL	240

PERIMETER EROSION BARRIER SCHEDULE	
LOCATION	PERIMETER EROSION BARRIER FOOT
STA. 23+75 TO 24+75	100
STA. 26+50 TO 27+50	100
STA. 29+50 TO 30+75	125
TOTAL	325

STORM SEWER CONNECTION SCHEDULE		
LOCATION	STORM SEWER CONNECTION EACH	COMMENTS
STA. 33+00, LT.	1	CONNECT TO PIPE 4
STA. 35+06, LT.	1	CONNECT TO STRUCTURE 5
STA. 36+79, LT.	1	CONNECT TO STRUCTURE 6
TOTALS	3	

NOTE: FLEXIBLE COUPLER AND TRENCH BACKFILL SHALL BE INCLUDED WHEN REQUIRED WITH NO ADDITIONAL COMPENSATION.

SEEDING SCHEDULE						
LOCATION	SEEDING, CLASS 2 ACRE	MULCH, METHOD 2 ACRE	FERTILIZER NUTRIENTS			TEMPORARY EROSION CONTROL SEEDING POUND
			NITROGEN POUND	PHOSPHOROUS POUND	POTASSIUM POUND	
			STA. 10+09 TO 40+21	1.25	1.25	
TOTAL	1.25	1.25	112.5	112.5	112.5	125

EARTHWORK SCHEDULE				
LOCATION	EARTH EXCAVATION	EARTH EXCAVATION ADJUSTED FOR SHRINKAGE (25%)	EMBANKMENT	EARTHWORK BALANCE SURPLUS (+) OR SHORTAGE (-)
	CU YD	CU YD	CU YD	CU YD
STA. 10+09.09 TO 40+21.75	1755	1316	1111	205
TOTALS	1755	1316	1111	205

ADJUSTMENT SCHEDULE	
LOCATION	MANHOLES TO BE ADJUSTED EACH
STA. 18+12 LT	1
STA. 22+67 RT	1
STA. 24+81 LT	1
STA. 27+05 LT	1
TOTALS	4

INLET AND PIPE PROTECTION SCHEDULE	
LOCATION	INLET AND PIPE PROTECTION EACH
STA. 27+75, 10.5' RT	1
STA. 31+49.35, 20.7' RT	1
STA. 32+65.82, 3' LT	1
STA. 34+06.67, 0.58' LT	1
STA. 34+95.93, 3' LT	1
STA. 36+78.91, 3' LT	1
TOTAL	6

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PCC SIDEWALK AND STEP SCHEDULE					
LOCATION	PCC SIDEWALK, 4"	DETECTABLE WARNINGS	PAVING BRICK SIDEWALK	CONCRETE STEPS	PIPE HANDRAIL
	SQ FT	SQ FT	SQ YD	CU YD	FOOT
STA. 32+52.43 TO 33+12.42	360				
STA. 33+44.42 TO 34+31.14	426				
STA. 34+25.23		25			
STA. 34+71.65 TO 36+15.61	864				
STA.34+78.88		25			
STA. 34+97.81				1.2	10
STA. 36+09.64		21			
STA. 36+39.54 TO 37+40.36	578				
STA. 36+45.61		21			
STA. 36+73.33				0.5	6
STA. 38+14.50 TO 39+18.18	622				
STA. 39+41.22			6		
STA. 39+42.18 TO 40+19.48	597				
STA. 40+16.72		20			
TOTALS	3447	112	6	1.7	16

SIGN SCHEDULE						
LOCATION	LT/RT	PROPOSED OFFSET	SIGN PANEL - TYPE 1	METAL POST - TYPE A	BOLLARDS	DESCRIPTION
		FOOT	SQ FT	FOOT	EACH	
STA. 10 + 50	RT	5	2.25	10		W7-5 (18X18)
STA. 31 + 75	LT	5	3	10.5		W16-1P (18X24)
STA. 32 + 33	LT AND RT				3	(SEE DETAILS)
STA. 32 + 35	RT	5	4	12.5		R5-3 (24X24)
STA. 39 +15	RT	26	4.33	12.5		D11-1 (24X18) WITH M4-6 (24X8)
STA. 39 + 15	LT	8.5	3	12.5		W16-1P (18X24)
NORTHBOUND MAIN ST.	RT	100' FROM INTERSECTION OF MAIN ST. AND MONROE ST.	4.33	12.5		D11-1 (24X18) WITH M6-1 (24X8)
SOUTHBOUND MAIN ST.	LT	100' FROM INTERSECTION OF MAIN ST. AND MONROE ST.	4.33	12.5		D11-1 (24X18) WITH M6-1 (24X8)
TOTALS			25.24	83	3	

ENTRANCE SCHEDULE								
STATION	EXISTING SURFACE	TYPE	"L"	"W"	DRIVEWAY PAVEMENT REMOVAL	PCC DRIVEWAY PAVEMENT, 6"	AGGREGATE BASE COURSE, TYPE B 4"	PAVING BRICK PAVEMENT FOR LIGHT TRAFFIC
			FOOT	FOOT	SQ YD	SQ YD	SQ YD	SQ YD
STA. 33+28.96 LT	CONCRETE	P.E.	21	20	30	55	55	
STA. 37+52.36 LT	ASPHALT	P.E.	7	24	19	17	17	
STA. 37+77.33 LT	CONCRETE	P.E.	7	12	11	12	12	
STA. 37+87.67 LT	CONCRETE	DUMPSTER PAD	7	9	9	12	12	
STA. 37+98.16 LT	CONCRETE	P.E.	7	16	15	12	12	
STA. 39+30.18 LT	BRICK	P.E.	18	12	17	16	16	17
TOTALS					101	124	124	17

PAVING SCHEDULE								
LOCATION	AGGREGATE BASE COURSE, TYPE A 4"	AGGREGATE BASE COURSE, TYPE A 8"	BITUMINOUS MATERIALS (PRIME COAT)	HMA SURFACE COURSE, IL-9.5, MIX "C", N30 (3')	SUBBASE GRANULAR MATERIAL, TYPE C 4"	INCIDENTAL HOT-MIX ASPHALT SURFACING (6")	PCC PAVEMENT, 6"	WELDED WIRE REINFORCEMENT
	SQ YD	SQ YD	POUND	TON	SQ YD	TON	SQ YD	SQ YD
STA. 10+09.09 TO 18+75		1058	241	162				
STA. 18+75 TO STA. 20+50	214						194	
STA. 20+50 TO 32+40.85		1455	331	222				
STA. 32+40.85 TO 40+05.94					185	62		
STA. 34+22.05 TO 34+80.89	31						31	31
STA. 34+37.07 TO 34+65.72					38	13		
STA. 36+09.22 TO 36+45.87	29						29	29
STA. 36+18.92 TO 36+36.33					13	4		
STA. 40+05.94 TO 40+19.05	6						6	6
TOTALS	280	2513	572	384	236	79	260	66

COMBINATION CONCRETE CURB AND GUTTER SCHEDULE			
LOCATION	C & G TYPE M-4.12	C & G TYPE B-6.12	C & G TYPE B-6.24
	FOOT	FOOT	FOOT
STA. 32+40.43 TO 32+52.43	12		
STA. 32+52.43 TO 34+36.24		204	
STA. 34+66.38 TO 36+18.01		159	
STA. 36+37.24 TO 40+18.36		385	
STA. 40+19.25			27
TOTALS	12	748	27

MISCELLANEOUS REMOVAL SCHEDULE					
LOCATION	PAVEMENT REMOVAL	COMBINATION CURB AND GUTTER REMOVAL	SIDEWALK REMOVAL	BRICK SIDEWALK REMOVAL	CONCRETE STEP REMOVAL
	SQ YD	FOOT	SQ FT	SQ FT	EACH
STA. 19+21 TO 19+29	8				
STA. 32+42 TO 40+21	244				
STA. 34+98 LT					1
STA. 36+73 LT					1
STA. 39+41 LT				52	
STA. 40+13 TO 40+19 LT			156		
STA. 40+04 TO 40+19 LT		40			
TOTAL	252	40	156	52	2

F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
MUN 1194	17-00054-00-BT	MONROE	46	7
FEDERAL AID PROJECT		CONTRACT 97701		

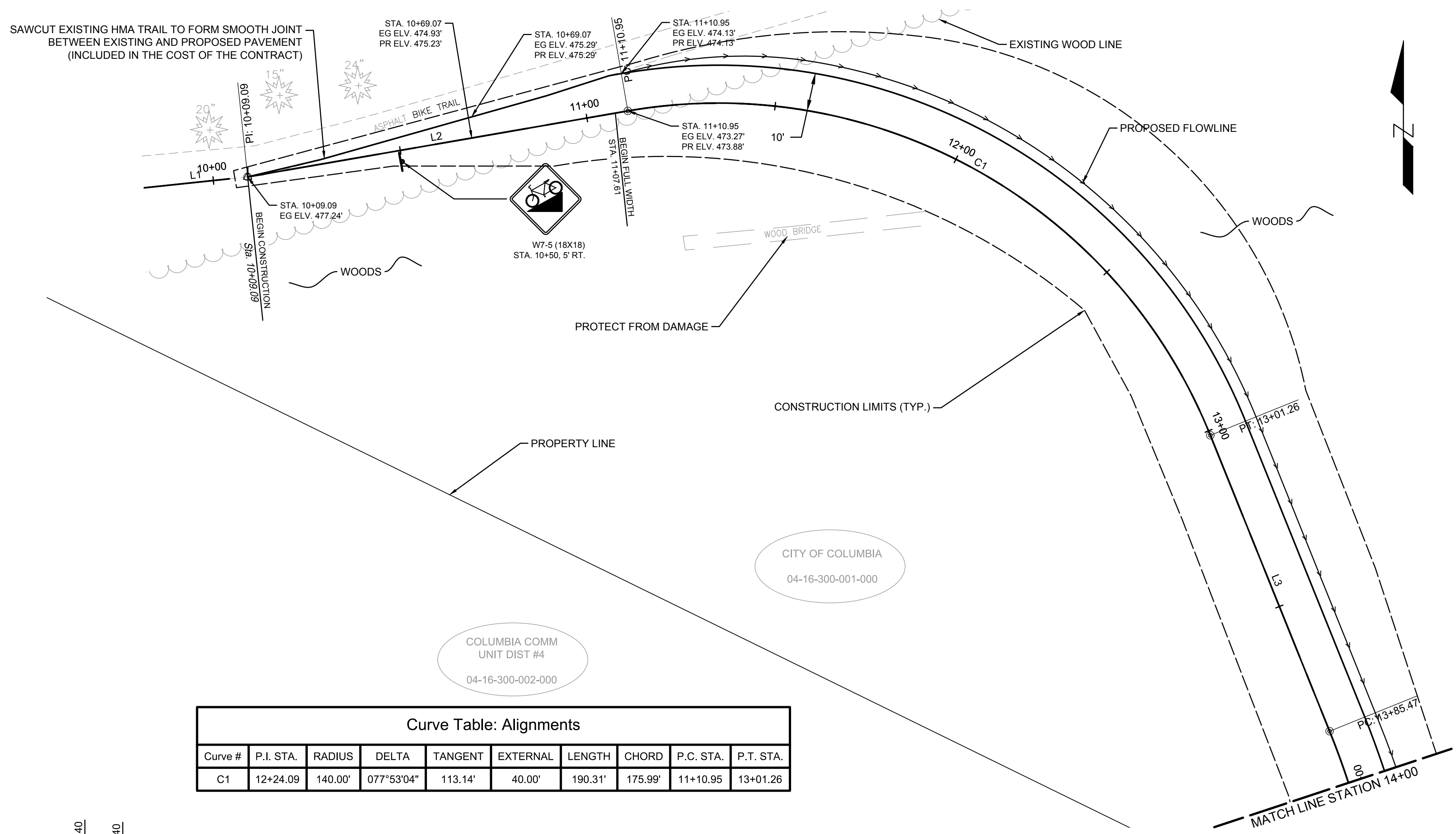
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MUN 1194	17-00054-00-BT	MONROE	46	8
STA.	10+09.09	TO STA.	14+00	
FEDERAL AID PROJECT		CONTRACT 97701		

NOTE: TREE REMOVAL TO BE COMPLETED BY THE CITY PRIOR TO CONSTRUCTION BETWEEN SEPTEMBER 30 AND APRIL 1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING ALL REMAINING STUMPS AND BRUSH AND RESIDUAL ORGANIC MATERIAL AS NECESSARY TO COMPLETE CONSTRUCTION AND SHALL BE INCLUDED IN CLEARING SPECIAL, PAID AS A LUMP SUM AMOUNT.

SCALE:
 PLAN: 1" = 20'
 PROFILE: 1" = 20' HORIZ.
 1" = 5' VERT.

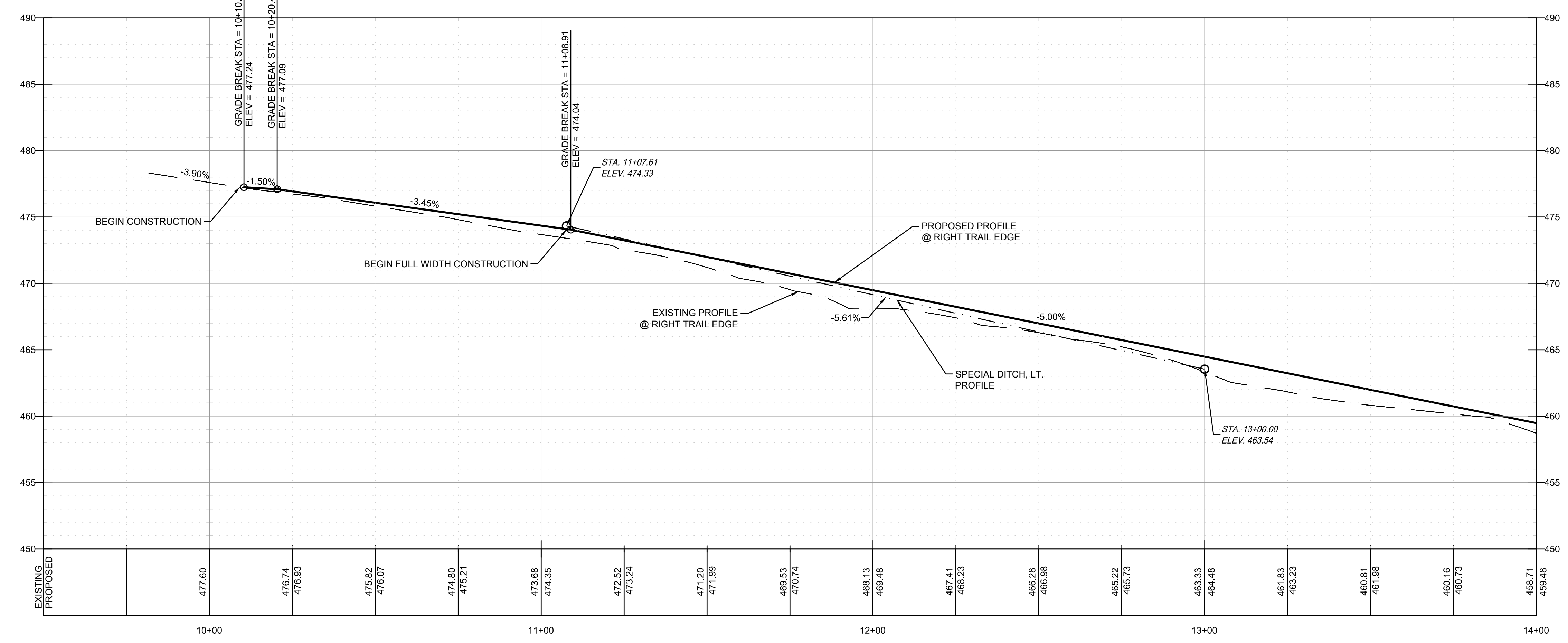
LEGEND

- EXISTING RIGHT-OF-WAY
- EXISTING PROPERTY LINE
- EXISTING WATER MAIN
- EXISTING WATER VALVE
- EXISTING FIRE HYDRANT
- EXISTING SEWER
- EXISTING STORM SEWER
- EXISTING MANHOLE
- EXISTING UTILITY BOXES
- EXISTING ELECTRIC
- EXISTING GAS MAIN
- EXISTING CABLE TV
- EXISTING TELEPHONE
- EXISTING IRRIGATION SYSTEM
- EXISTING CONTOURS
- EXISTING TREE
- EXISTING POLE
- PROPOSED CONSTRUCTION LIMIT
- PROPOSED CONTOURS
- PROPOSED STORM SEWER
- PROPOSED DRAINAGE STRUCTURES
- PROPOSED FLARED END
- PROPOSED DITCH FLOWLINE
- PROPOSED TEMPORARY EASEMENT
- PROPOSED PERMANENT EASEMENT



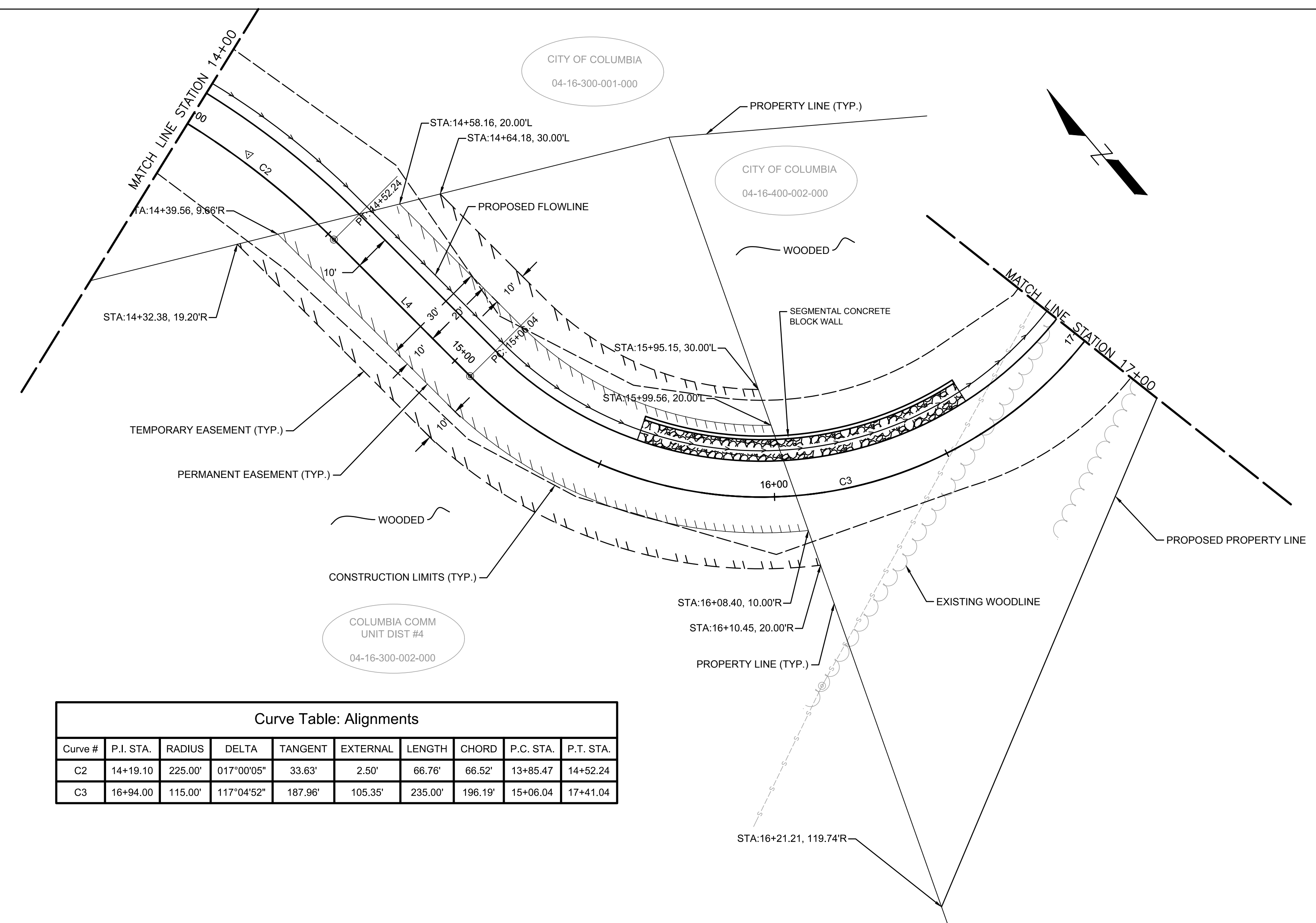
Curve Table: Alignments

Curve #	P.I. STA.	RADIUS	DELTA	TANGENT	EXTERNAL	LENGTH	CHORD	P.C. STA.	P.T. STA.
C1	12+24.09	140.00'	077°53'04"	113.14'	40.00'	190.31'	175.99'	11+10.95	13+01.26

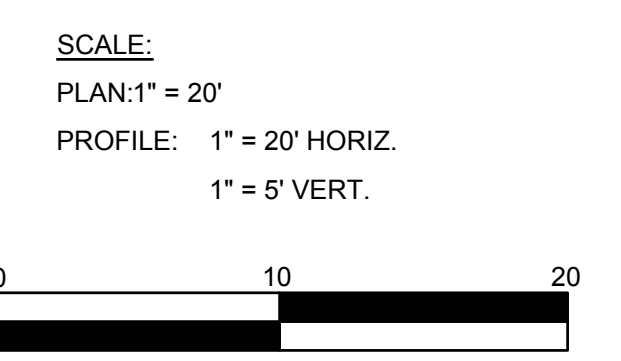


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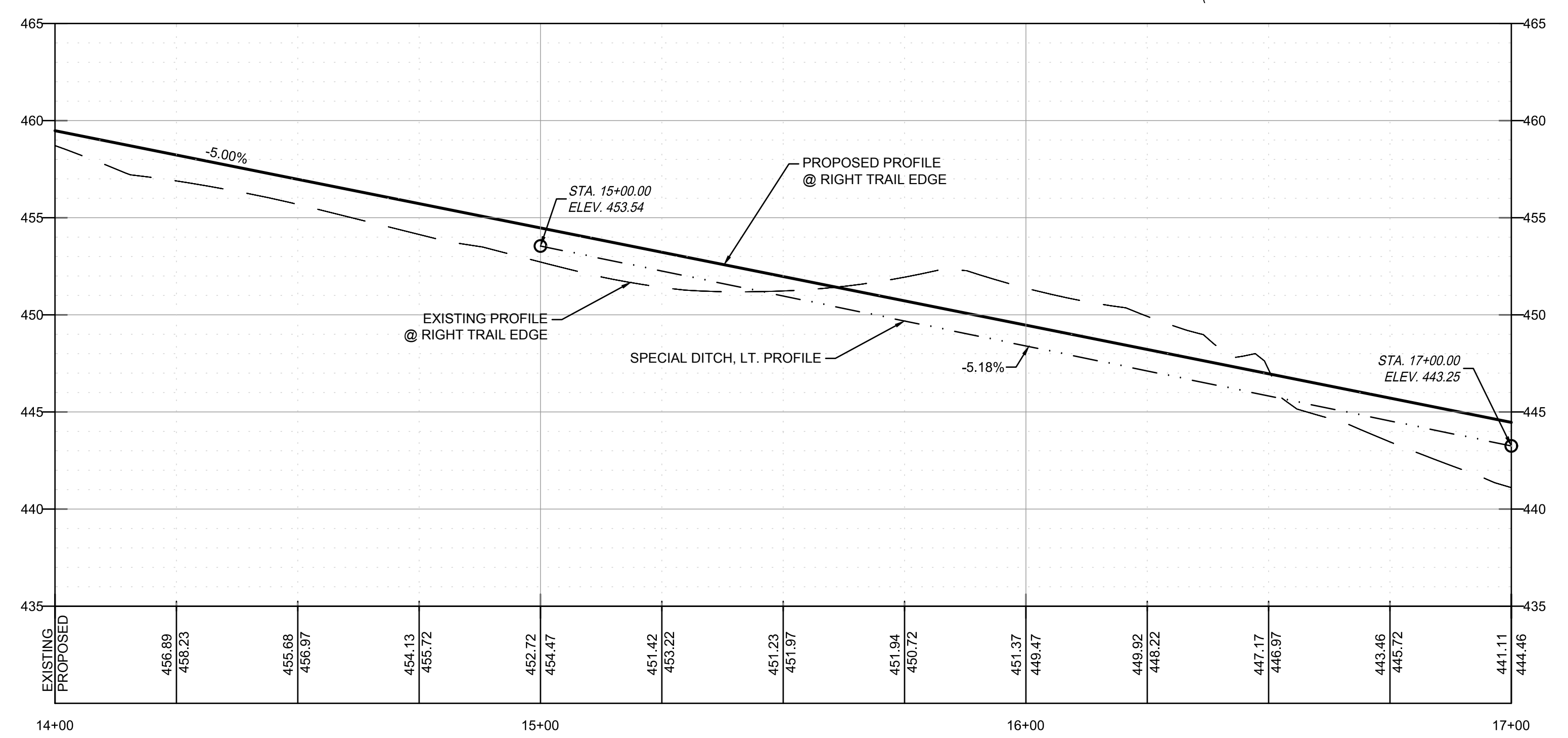
F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
MUN 1194	17-00054-00-BT	MONROE	46	9
STA. 14+00	TO STA. 17+00			
FEDERAL AID PROJECT		CONTRACT 97701		



NOTE: TREE REMOVAL TO BE COMPLETED BY THE CITY PRIOR TO CONSTRUCTION BETWEEN SEPTEMBER 30 AND APRIL 1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING ALL REMAINING STUMPS, BRUSH, AND RESIDUAL ORGANIC MATERIAL AS NECESSARY TO COMPLETE CONSTRUCTION AND SHALL BE INCLUDED IN CLEARING SPECIAL, PAID AS A LUMP SUM AMOUNT.



Curve Table: Alignments									
Curve #	P.I. STA.	RADIUS	DELTA	TANGENT	EXTERNAL	LENGTH	CHORD	P.C. STA.	P.T. STA.
C2	14+19.10	225.00'	017°00'05"	33.63'	2.50'	66.76'	66.52'	13+85.47	14+52.24
C3	16+94.00	115.00'	117°04'52"	187.96'	105.35'	235.00'	196.19'	15+06.04	17+41.04



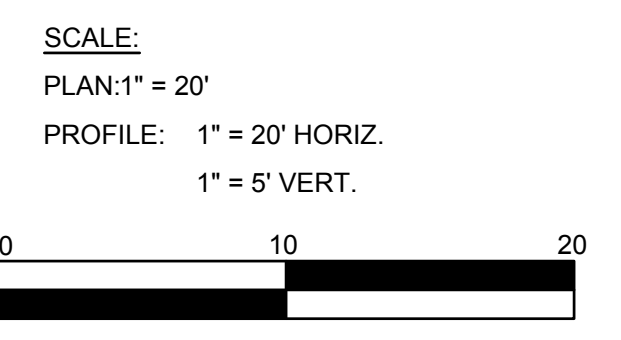
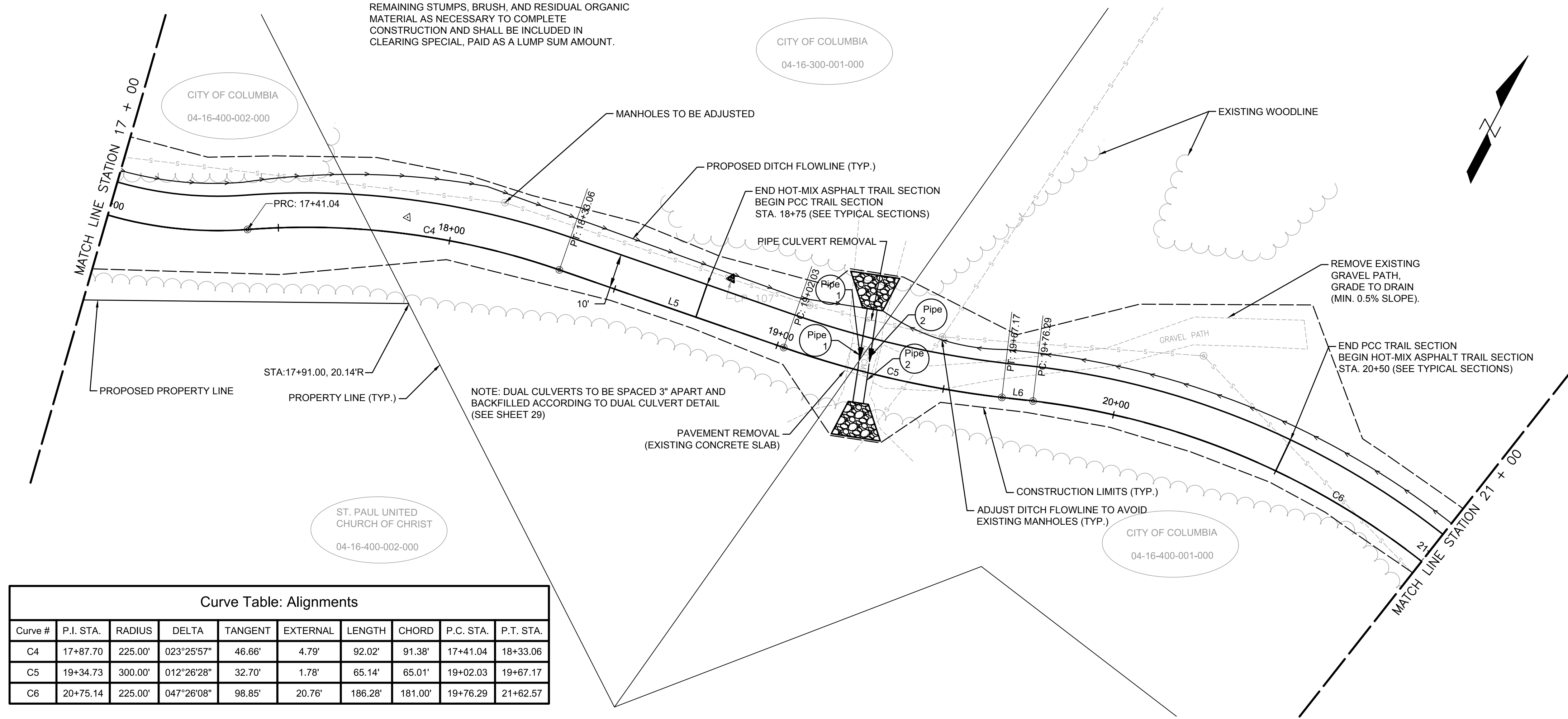
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PLAN AND PROFILE
 SECTION 17-00054-00-BT

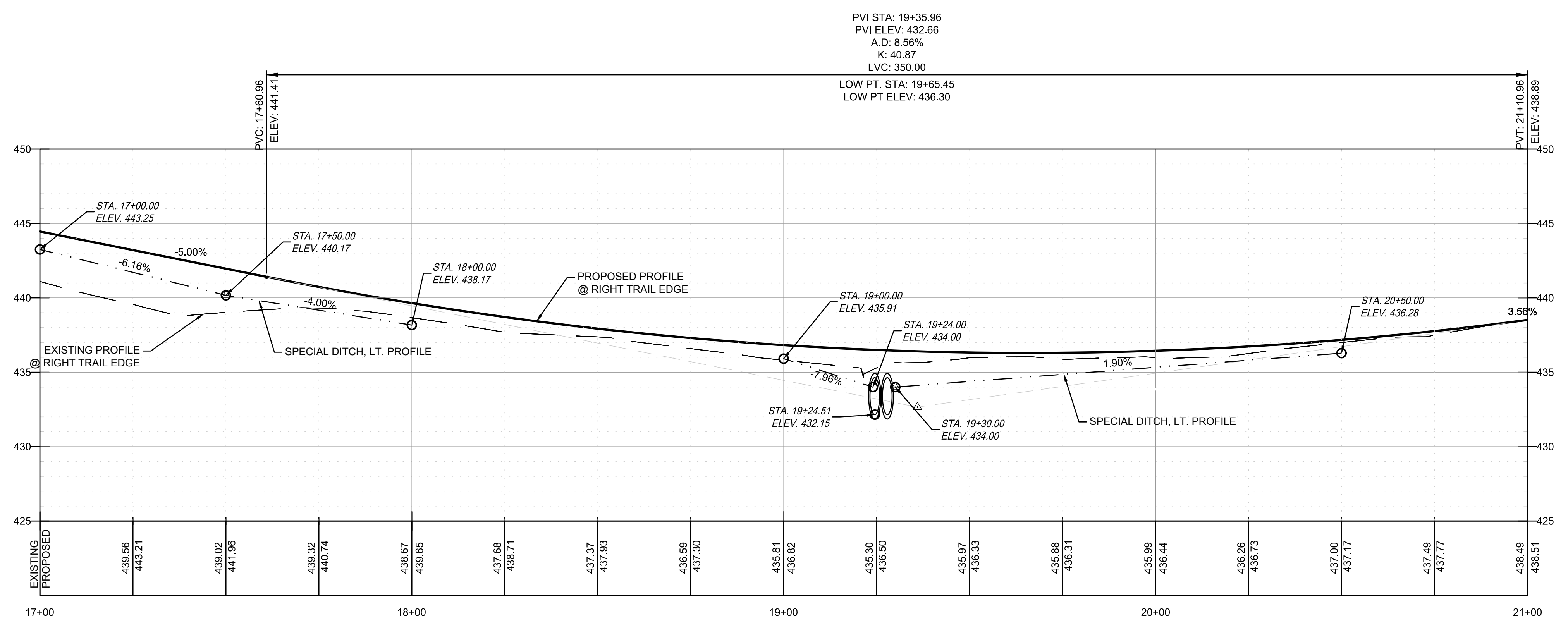
BOLM - SCHUHKRAFT CONNECTOR TRAIL
 COLUMBIA, ILLINOIS

F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
MUN 1194	17-00054-00-BT	MONROE	46	10
STA. 17+00	TO STA. 21+00			
FEDERAL AID PROJECT		CONTRACT 97701		

NOTE: TREE REMOVAL TO BE COMPLETED BY THE CITY PRIOR TO CONSTRUCTION BETWEEN SEPTEMBER 30 AND APRIL 1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING ALL REMAINING STUMPS, BRUSH, AND RESIDUAL ORGANIC MATERIAL AS NECESSARY TO COMPLETE CONSTRUCTION AND SHALL BE INCLUDED IN CLEARING SPECIAL, PAID AS A LUMP SUM AMOUNT.

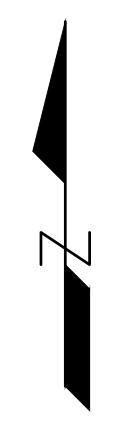


Curve #	P.I. STA.	RADIUS	DELTA	TANGENT	EXTERNAL	LENGTH	CHORD	P.C. STA.	P.T. STA.
C4	17+87.70	225.00'	023°25'57"	46.66'	4.79'	92.02'	91.38'	17+41.04	18+33.06
C5	19+34.73	300.00'	012°26'28"	32.70'	1.78'	65.14'	65.01'	19+02.03	19+67.17
C6	20+75.14	225.00'	047°26'08"	98.85'	20.76'	186.28'	181.00'	19+76.29	21+62.57

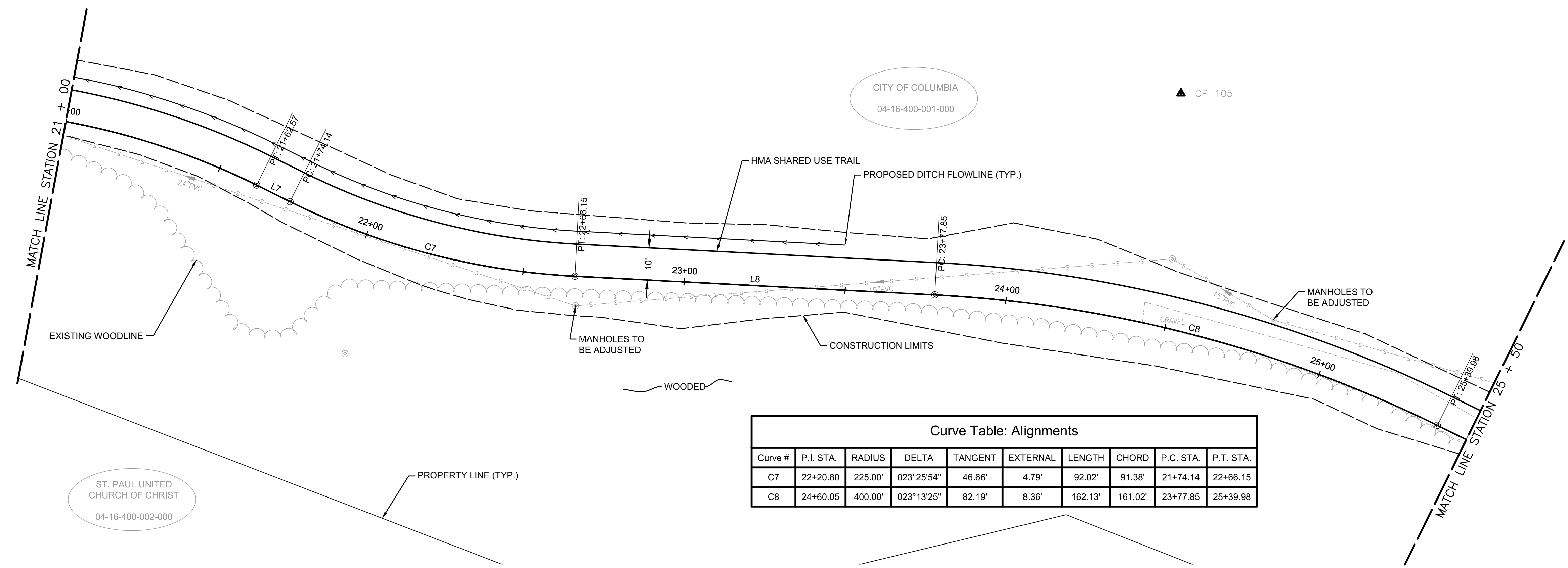
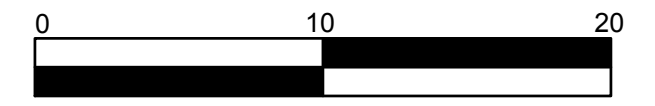


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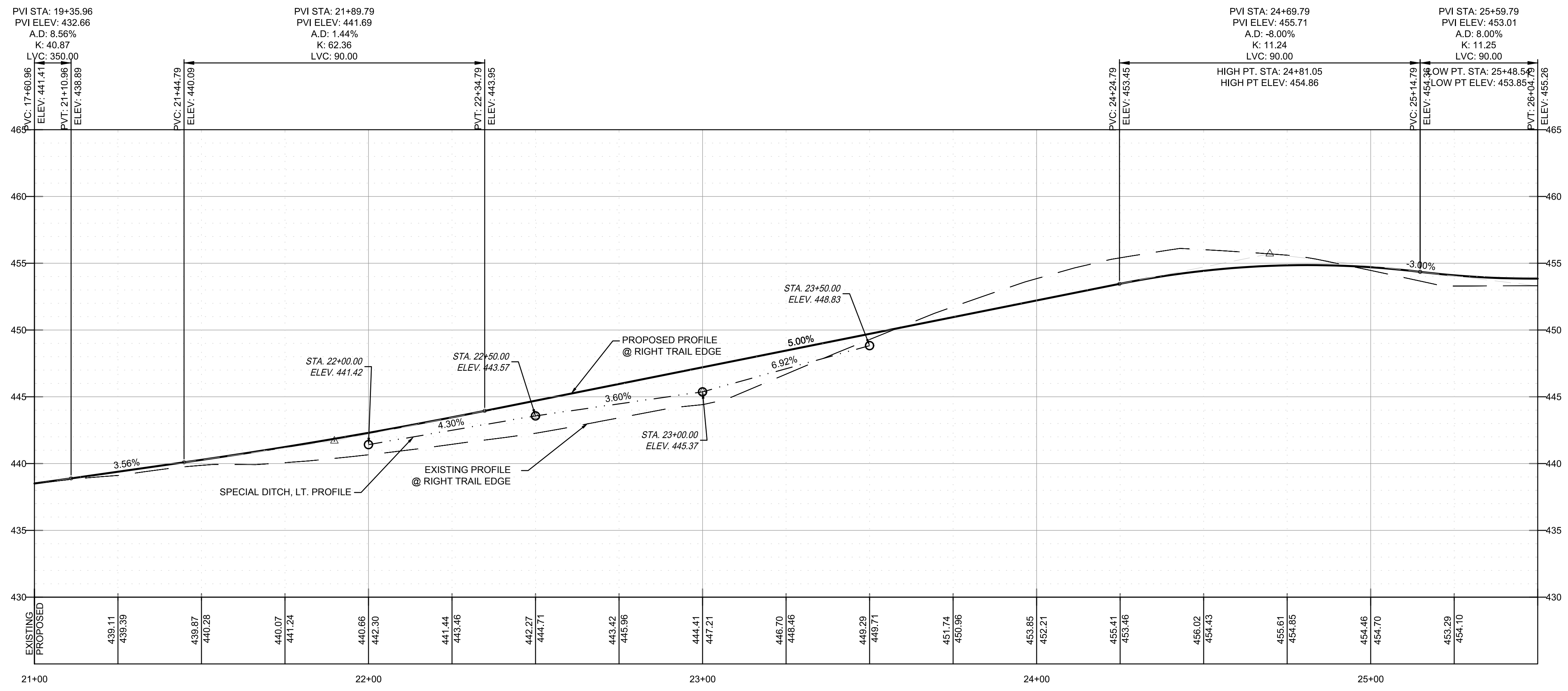
F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
MUN 1194	17-00054-00-BT	MONROE	46	11
STA. 21+00	TO STA. 25+50			
FEDERAL AID PROJECT		CONTRACT 97701		



SCALE:
 PLAN: 1" = 20'
 PROFILE: 1" = 20' HORIZ.
 1" = 5' VERT.



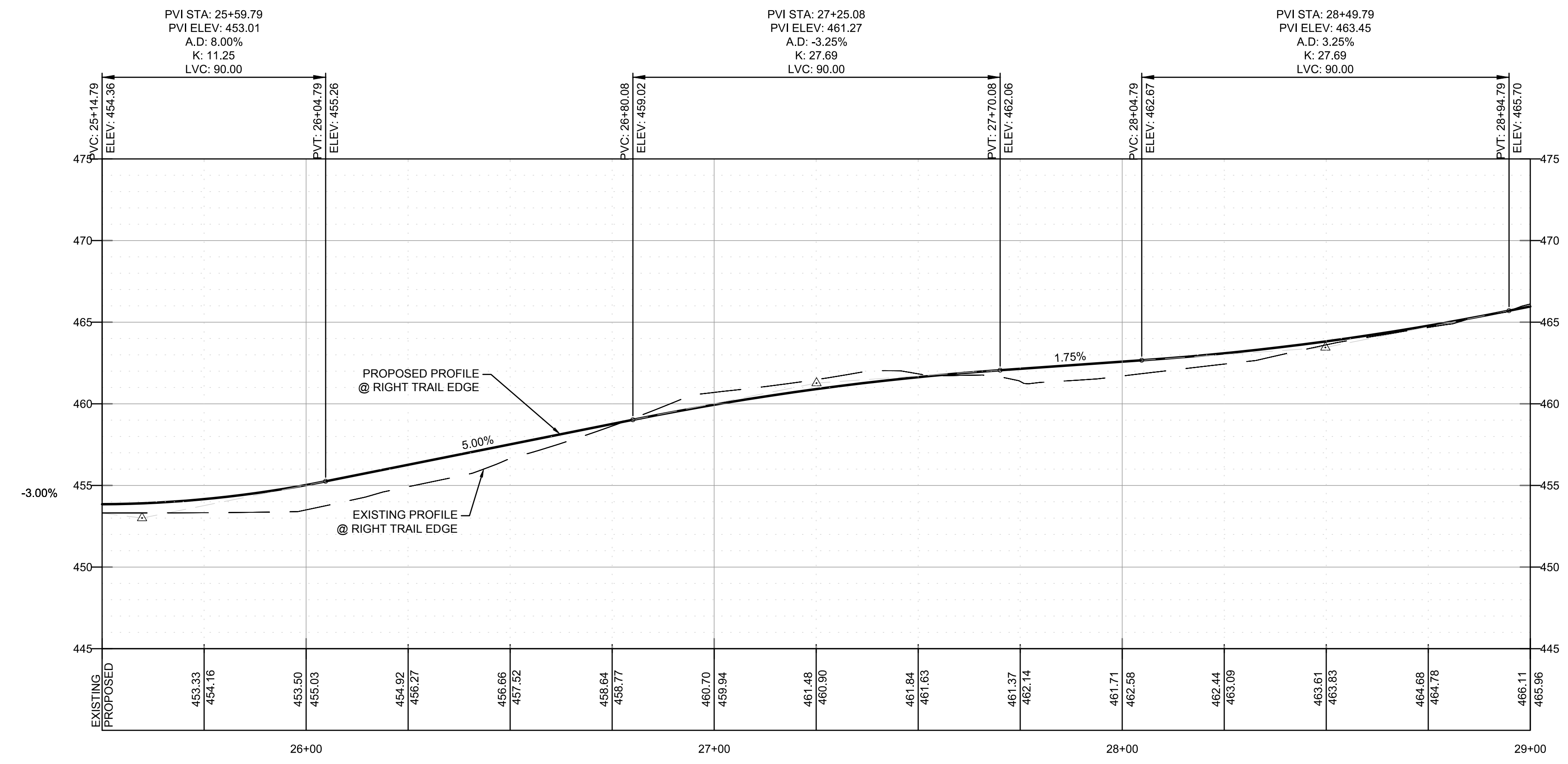
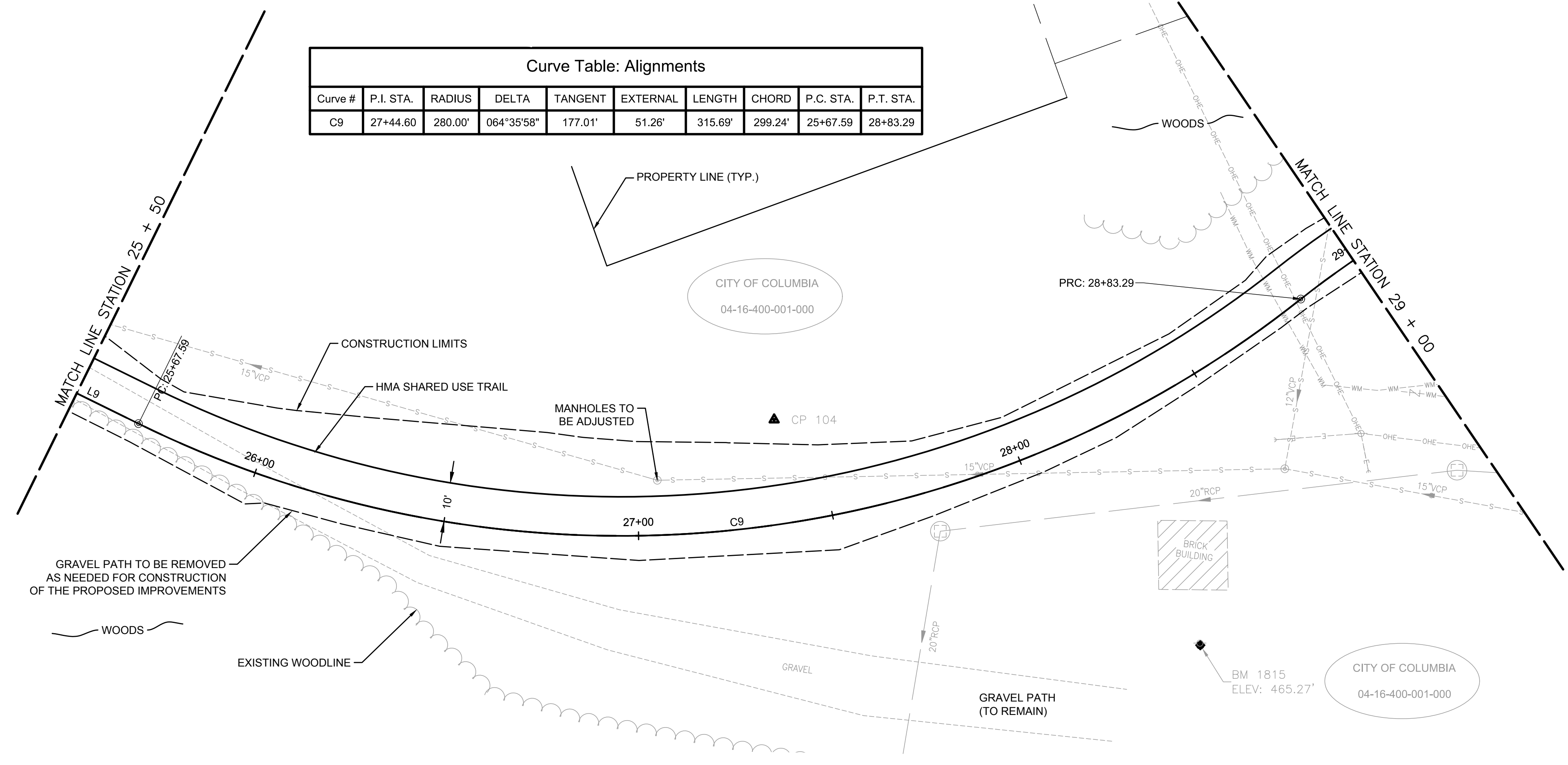
Curve #	P.I. STA.	RADIUS	DELTA	TANGENT	EXTERNAL	LENGTH	CHORD	P.C. STA.	P.T. STA.
C7	22+20.80	225.00'	023°25'54"	46.66'	4.79'	92.02'	91.38'	21+74.14	22+66.15
C8	24+60.05	400.00'	023°13'25"	82.19'	8.36'	162.13'	161.02'	23+77.85	25+39.98



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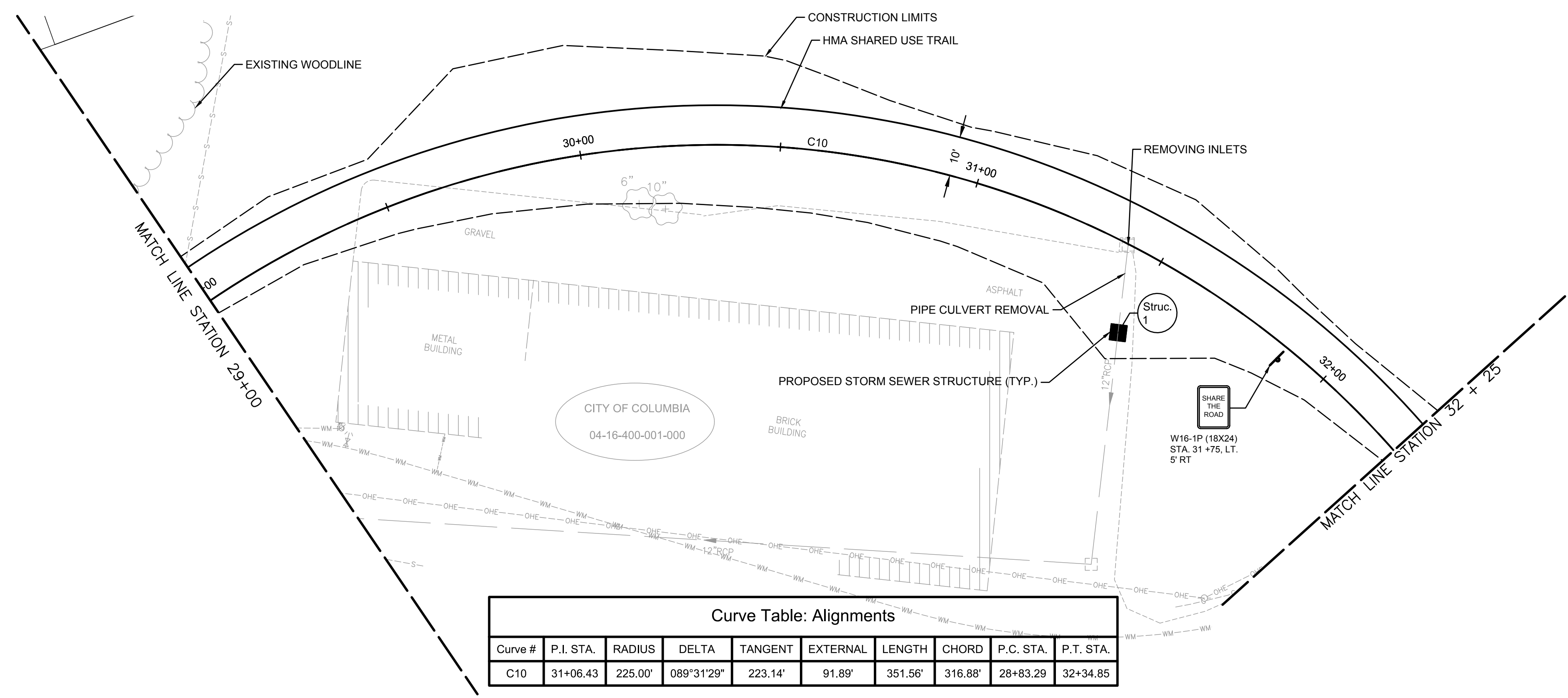
F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
MUN 1194	17-00054-00-BT	MONROE	46	12
STA. 25+50		TO STA. 29+00		
FEDERAL AID PROJECT		CONTRACT 97701		

Curve #	P.I. STA.	RADIUS	DELTA	TANGENT	EXTERNAL	LENGTH	CHORD	P.C. STA.	P.T. STA.
C9	27+44.60	280.00'	064°35'58"	177.01'	51.26'	315.69'	299.24'	25+67.59	28+83.29



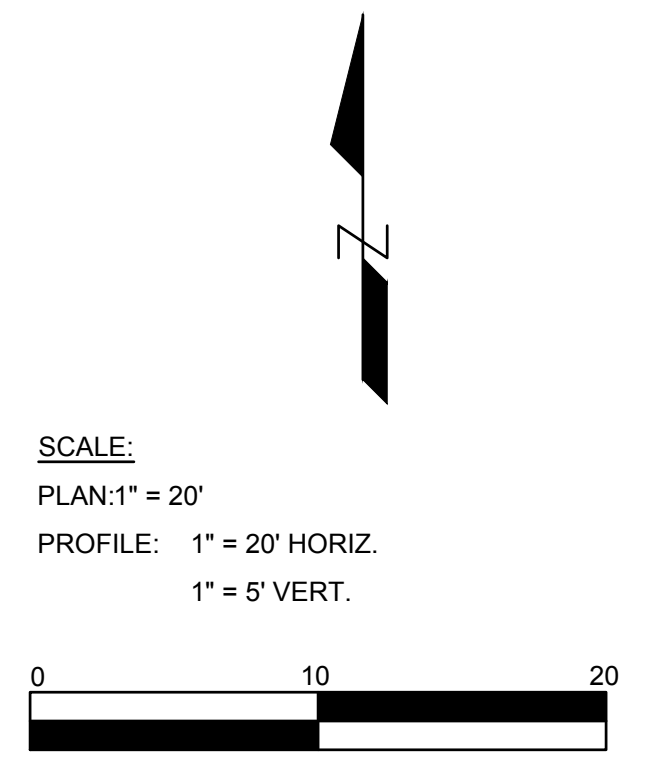
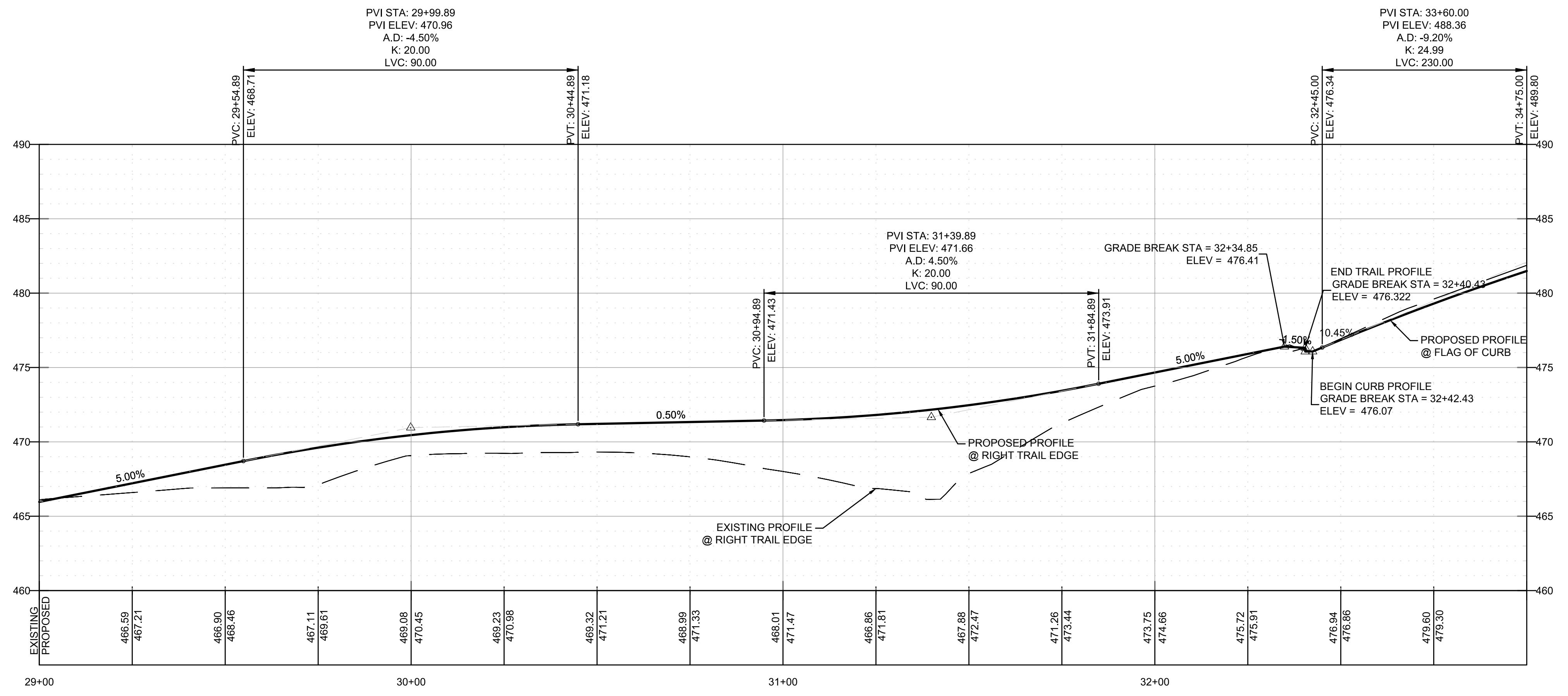
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F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
MUN 1194	17-00054-00-BT	MONROE	46	13
STA. 29+00	TO STA. 32+50			
FEDERAL AID PROJECT		CONTRACT 97701		



Curve Table: Alignments

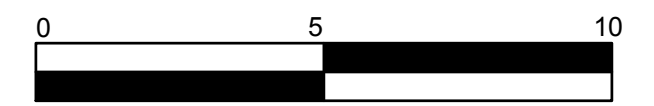
Curve #	P.I. STA.	RADIUS	DELTA	TANGENT	EXTERNAL	LENGTH	CHORD	P.C. STA.	P.T. STA.
C10	31+06.43	225.00'	089°31'29"	223.14'	91.89'	351.56'	316.88'	28+83.29	32+34.85



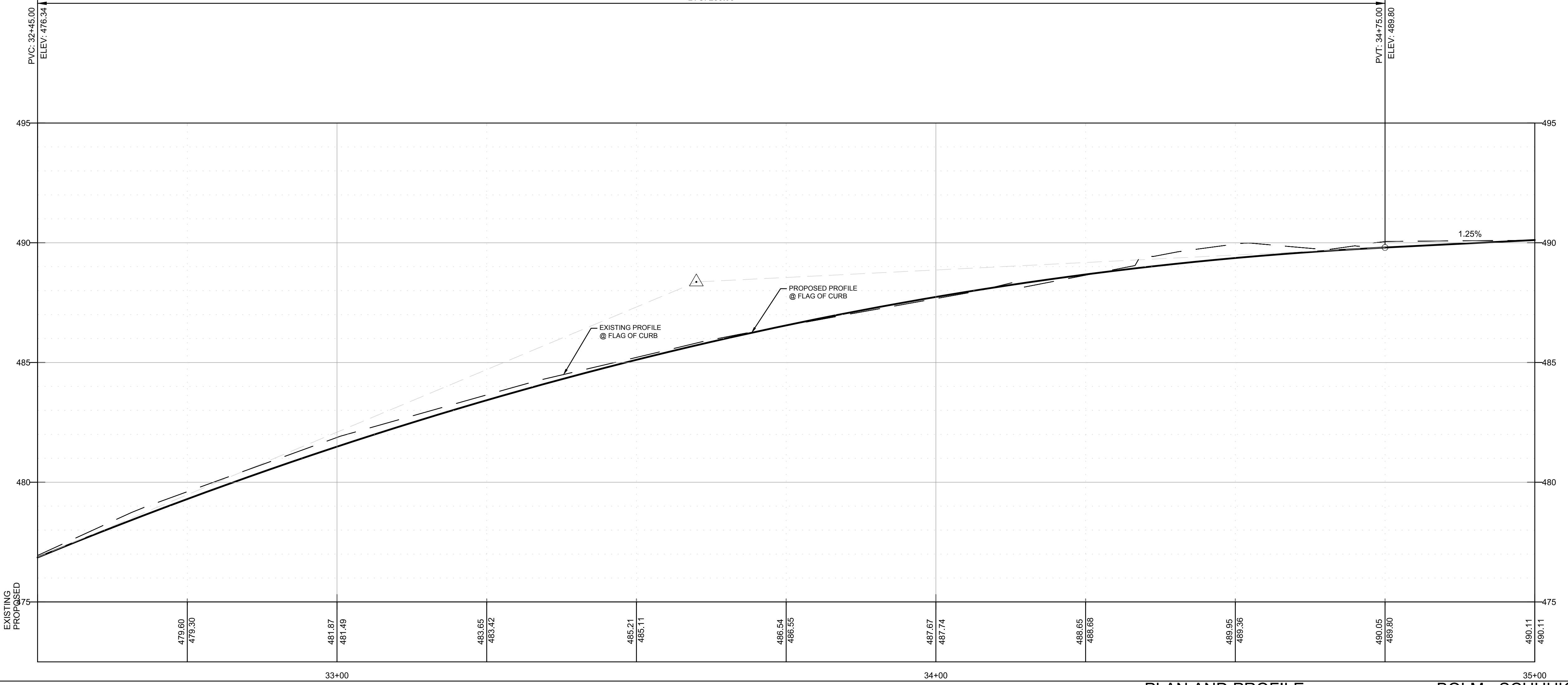
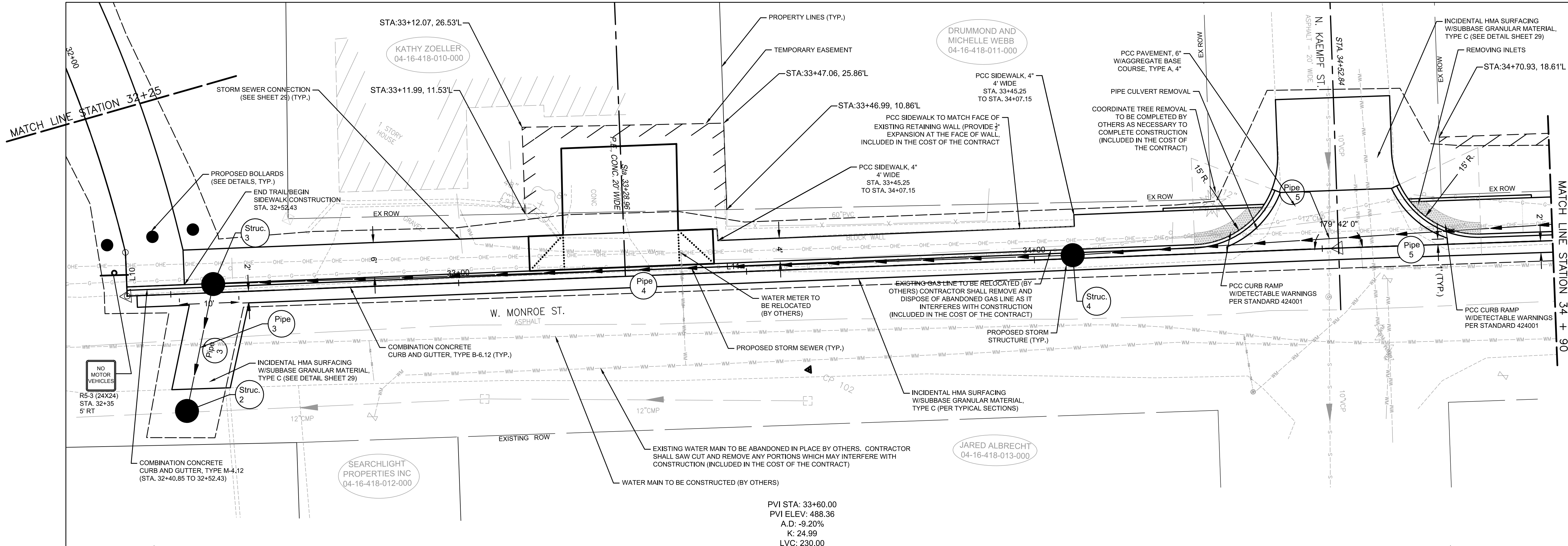
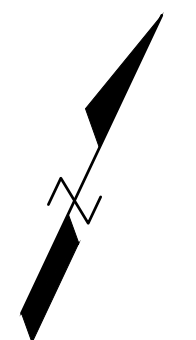
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 Plotted By: Ian Gunn

F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
MUN 1194	17-00054-00-BT	MONROE	46	14
STA. 32+25	TO STA. 35+00			
FEDERAL AID PROJECT		CONTRACT 97701		

SCALE:
 PLAN: 1" = 10'
 PROFILE: 1" = 10' HORIZ.
 1" = 2.5' VERT.

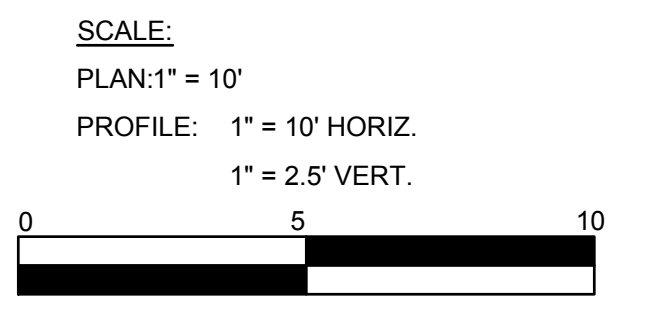
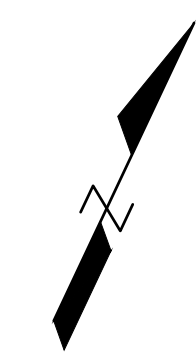
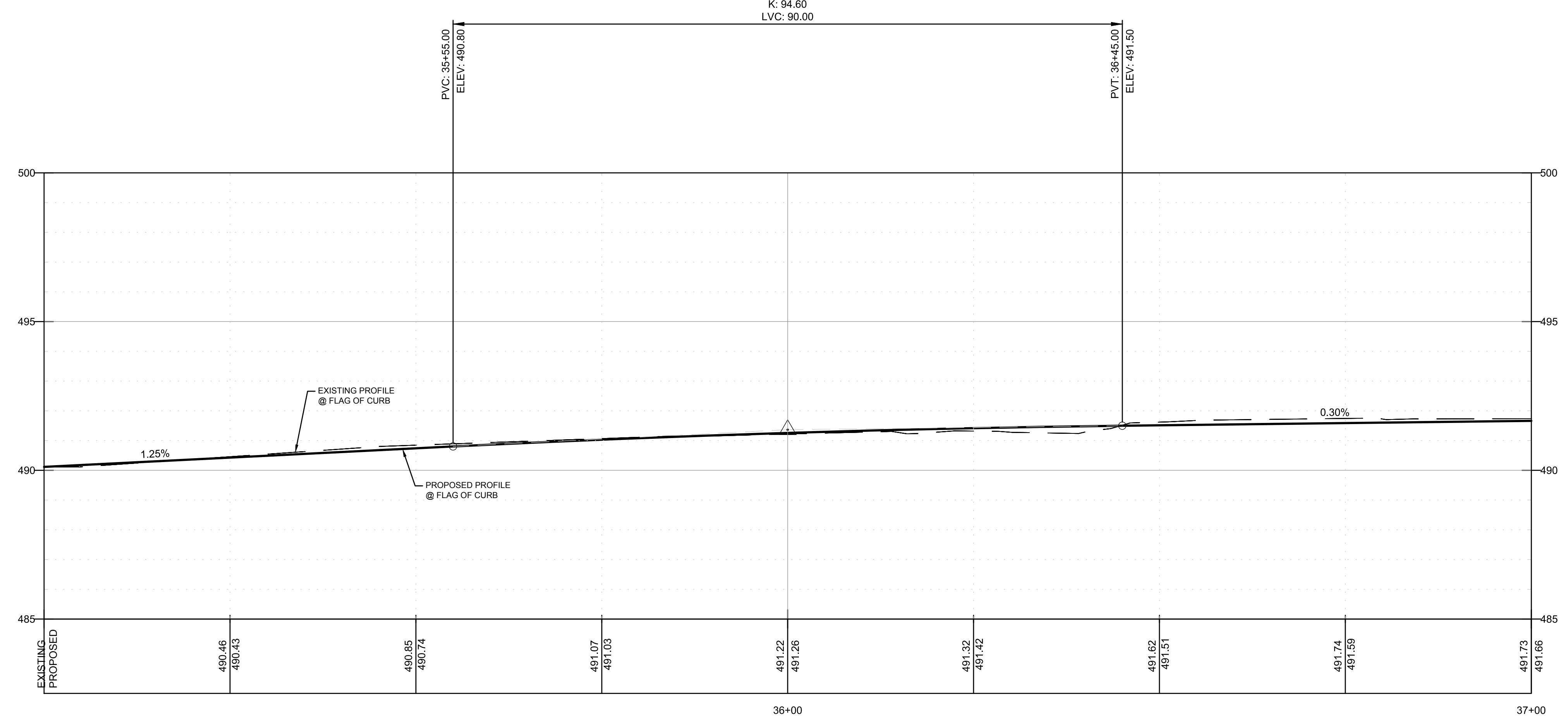
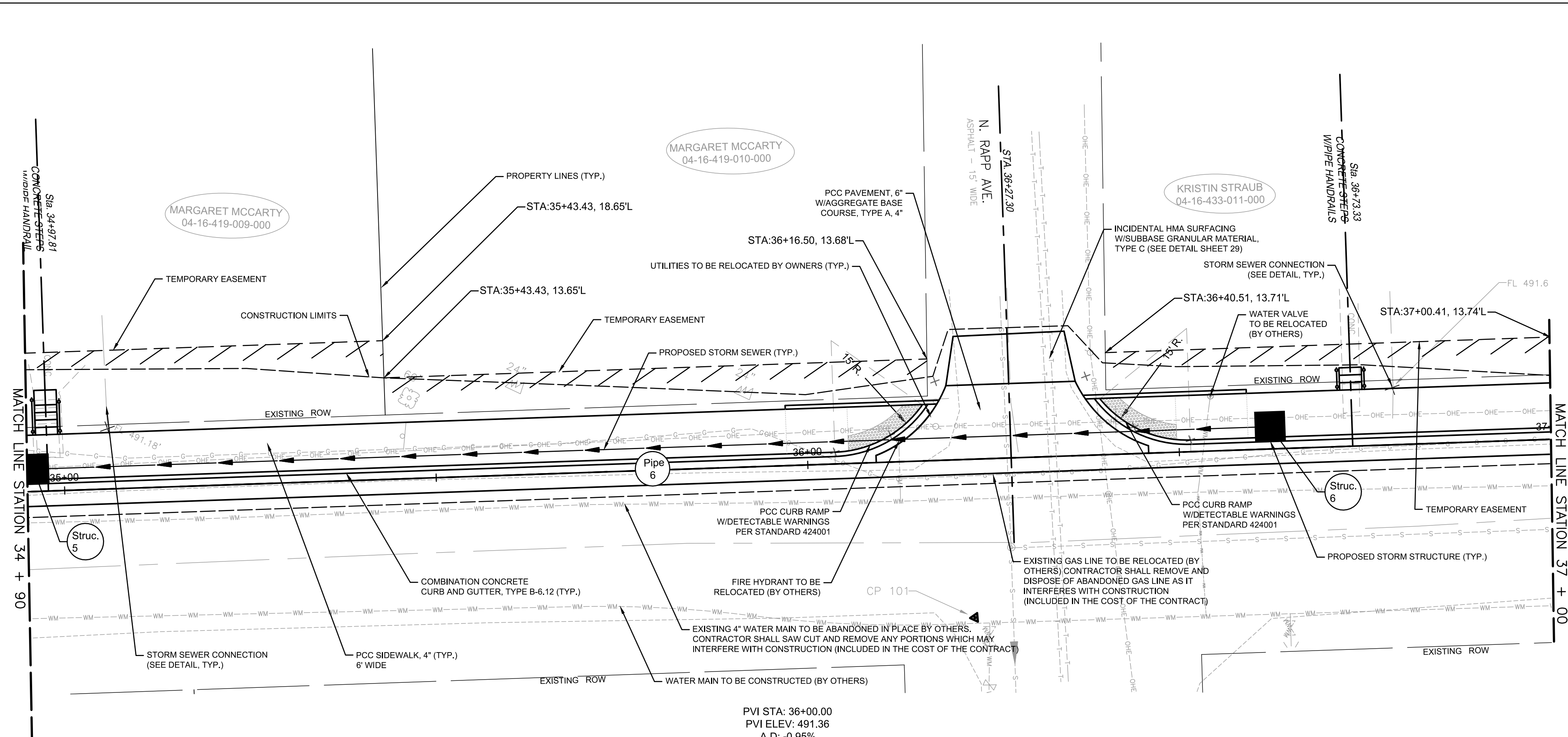


NOTE: SEE INTERSECTION AND RAMP DETAILS FOR SPOT ELEVATIONS.



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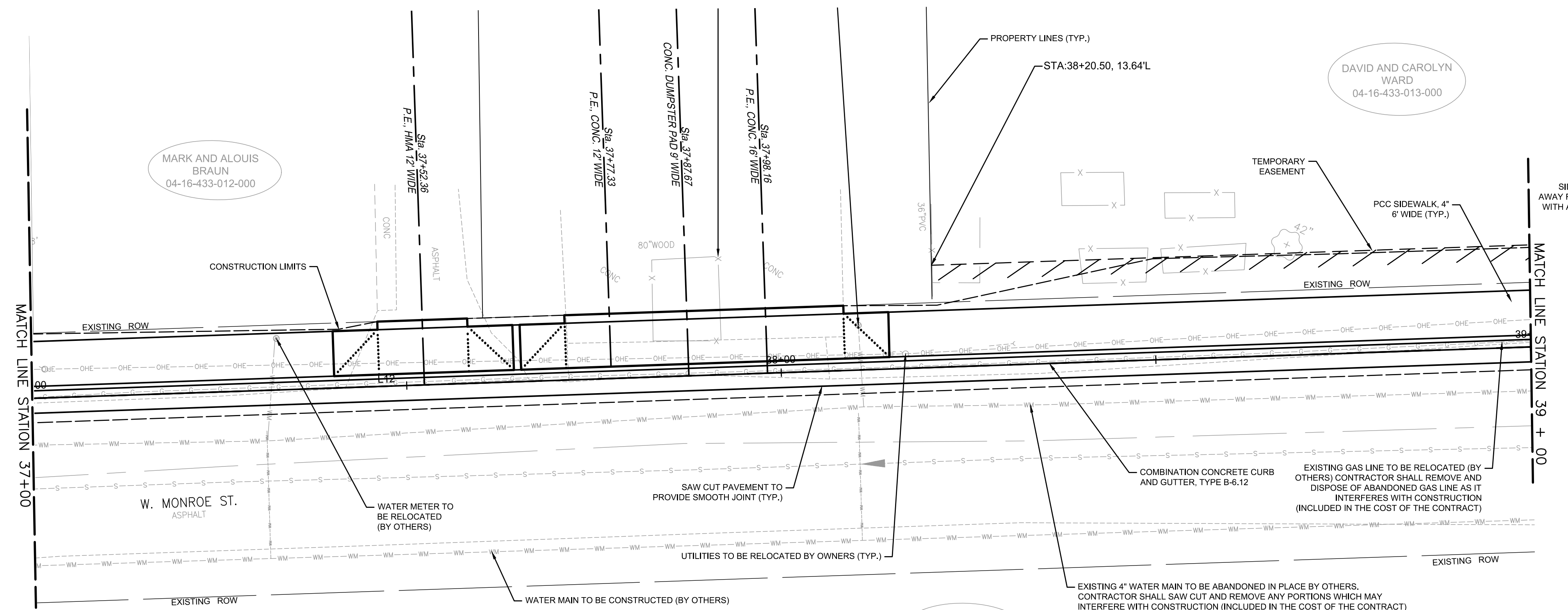
F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
MUN 1194	17-00054-00-BT	MONROE	46	15
STA. 35+00	TO STA. 37+00			
FEDERAL AID PROJECT		CONTRACT 97701		



NOTE: SEE INTERSECTION AND RAMP DETAILS FOR SPOT ELEVATIONS.

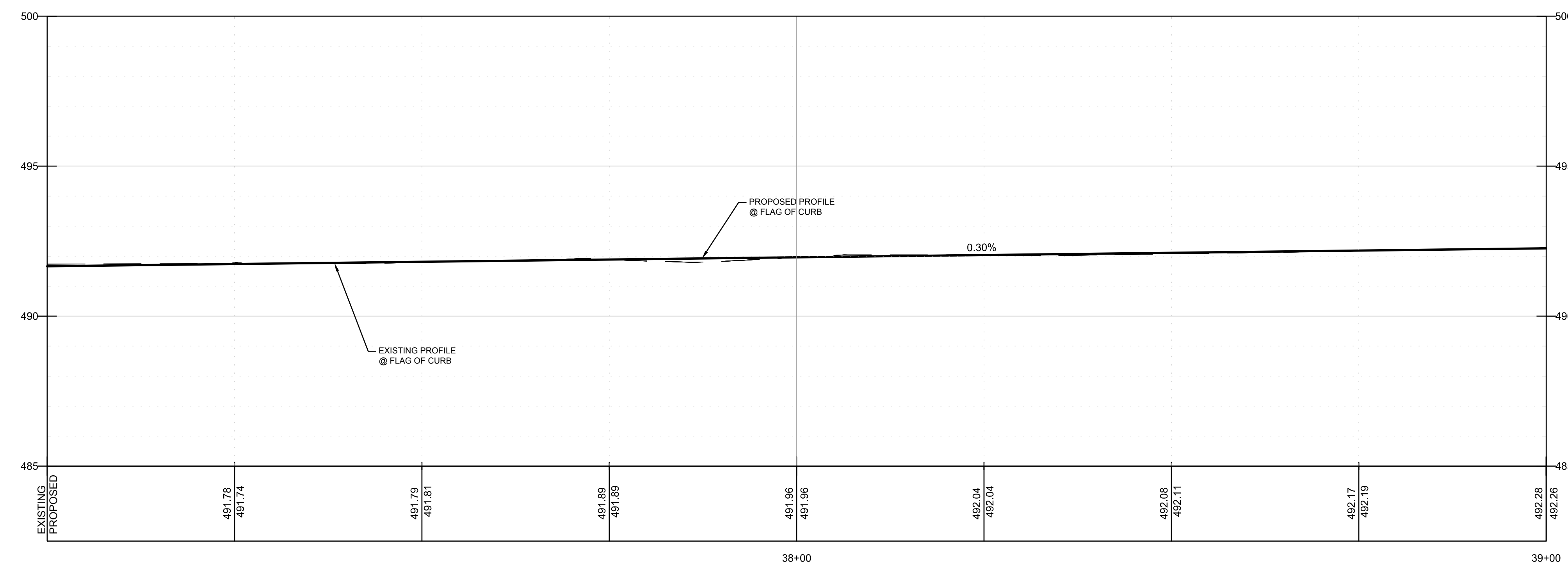
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 Plotted on: 12/6/2019 10:03 AM
 Plotted By: Ian Gunn

F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
MUN 1194	17-00054-00-BT	MONROE	46	16
STA. 37+00	TO STA. 39+00			
FEDERAL AID PROJECT		CONTRACT 97701		



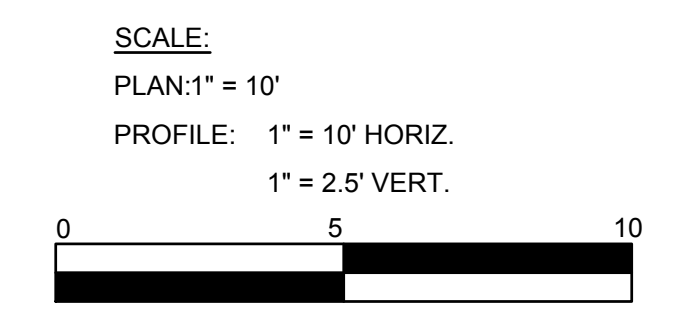
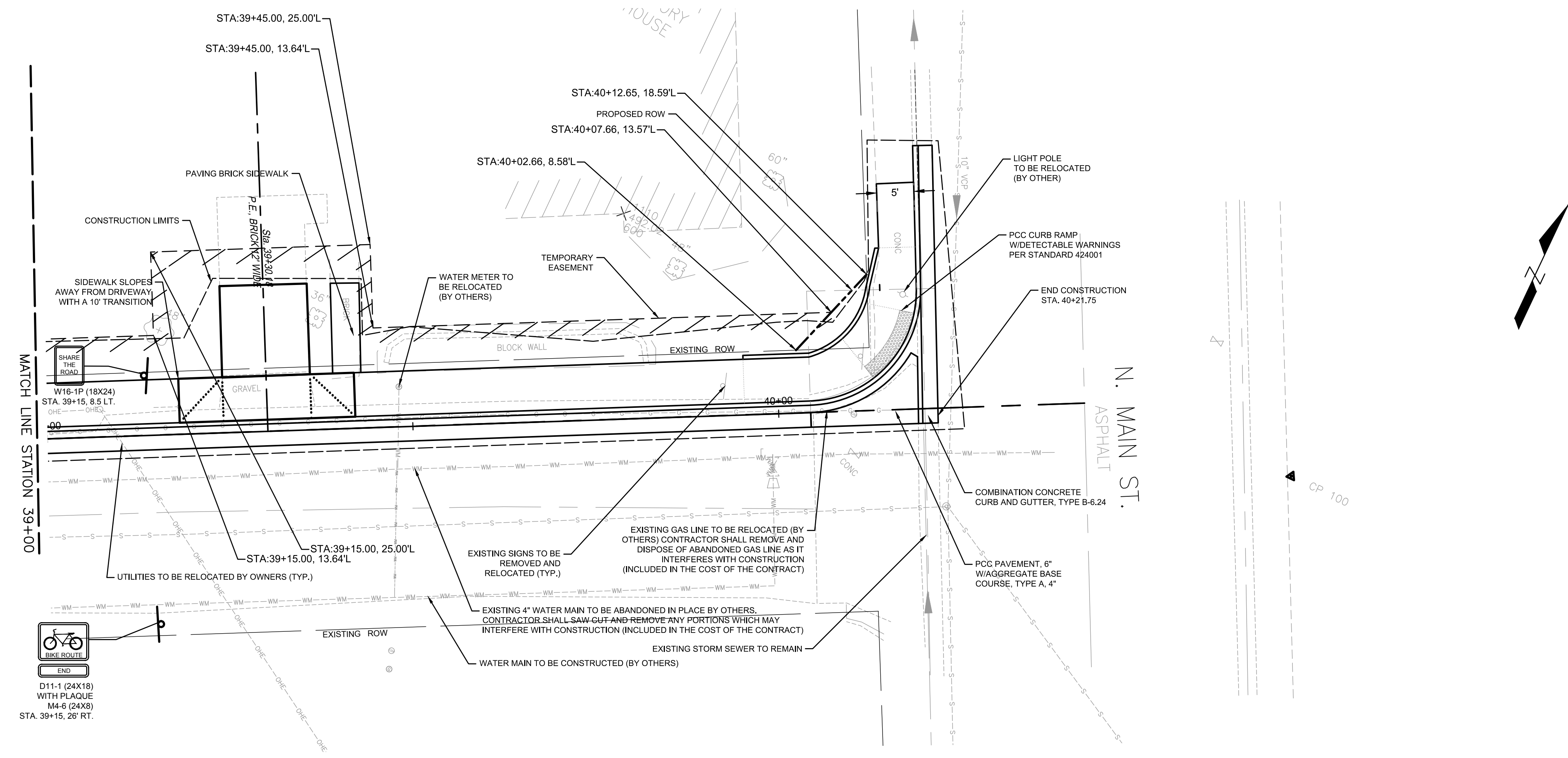
SCALE:
 PLAN: 1" = 10'
 PROFILE: 1" = 10' HORIZ.
 1" = 2.5' VERT.

NOTE: SEE INTERSECTION AND RAMP DETAILS FOR SPOT ELEVATIONS.



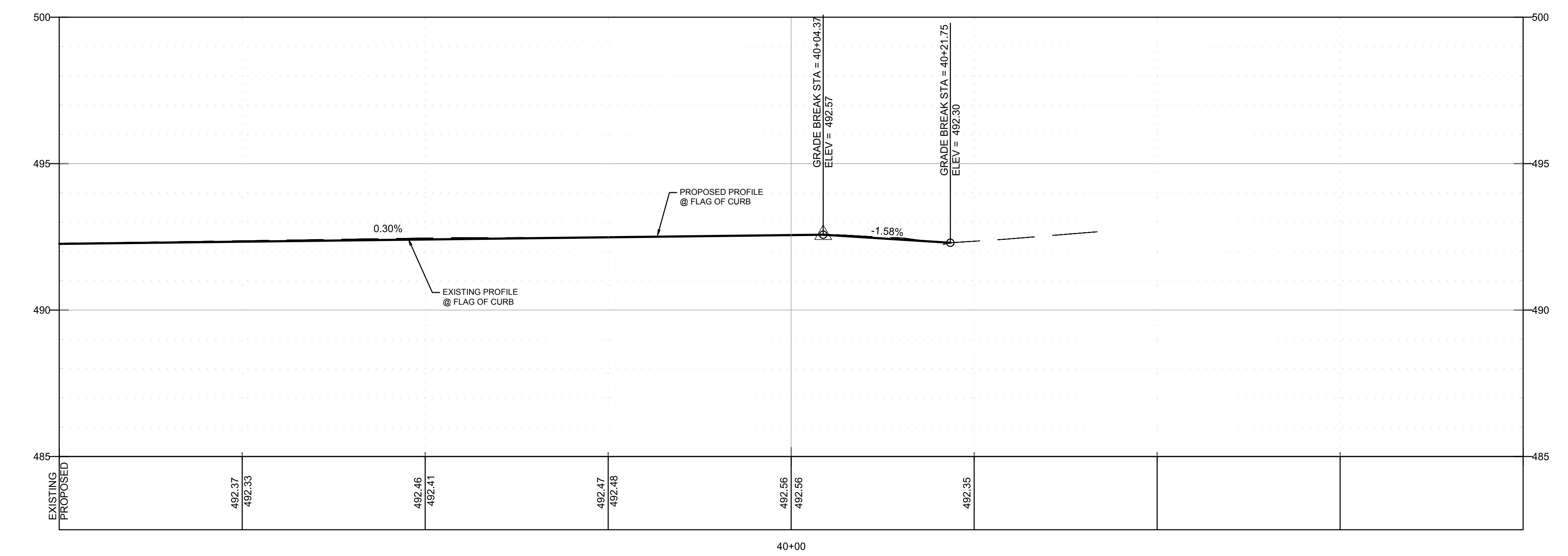
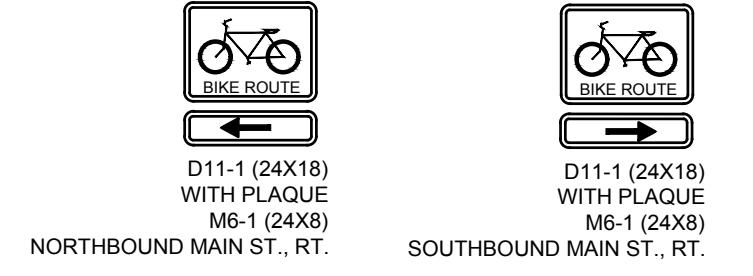
M:\Projects\2017\17-965 City of Columbia Bolm-Schuhkraft Connector Trail\20 Design\CADD\SHEETS\17-265 PLAN AND PROFILE.dwg
 Plotted on: 12/6/2019 10:03 AM
 Plotted By: Ian Gunn

F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
MUN 1194	17-00054-00-BT	MONROE	46	17
STA. 39+00	TO STA. 41+21.75			
FEDERAL AID PROJECT		CONTRACT 97701		



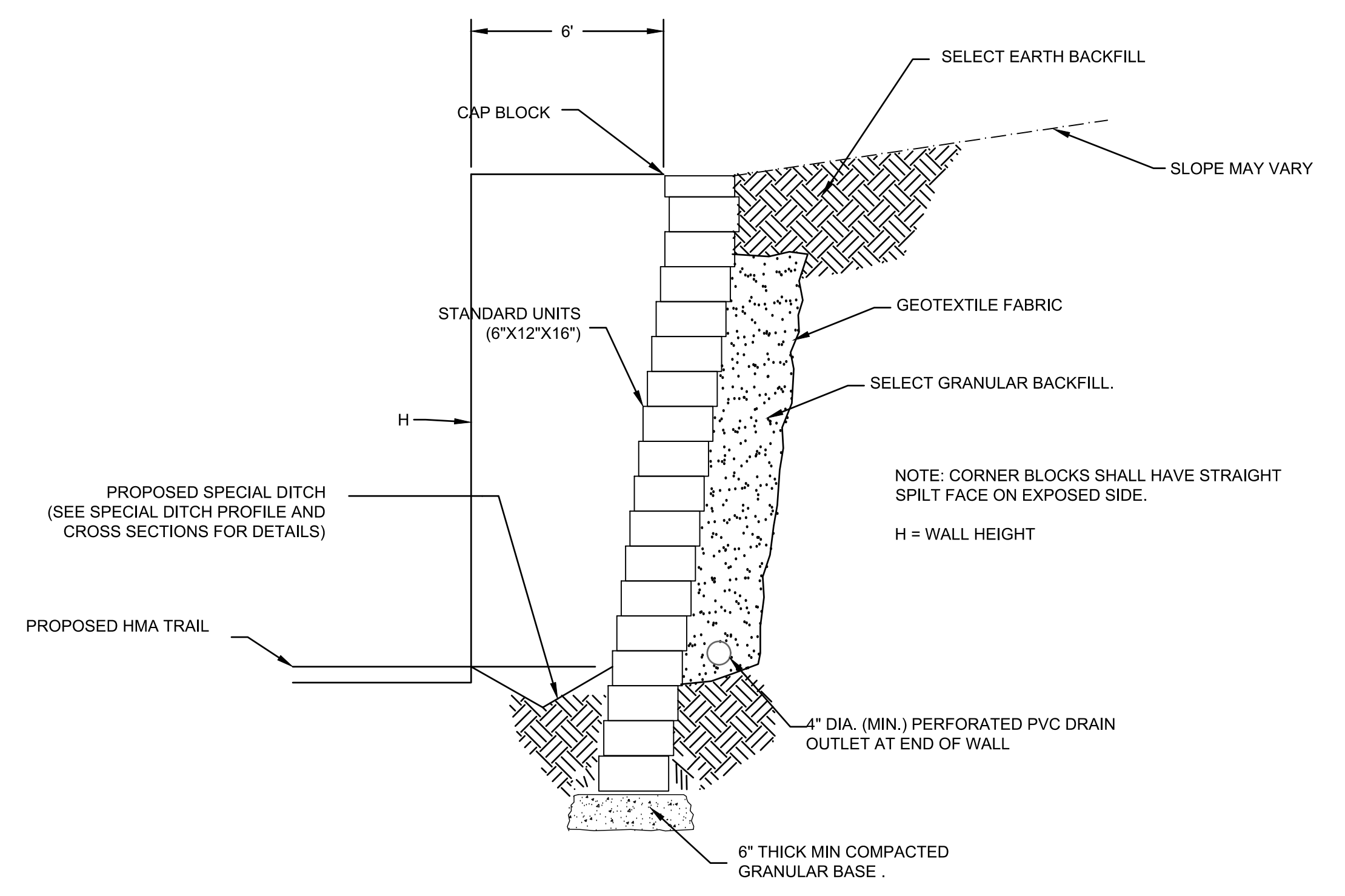
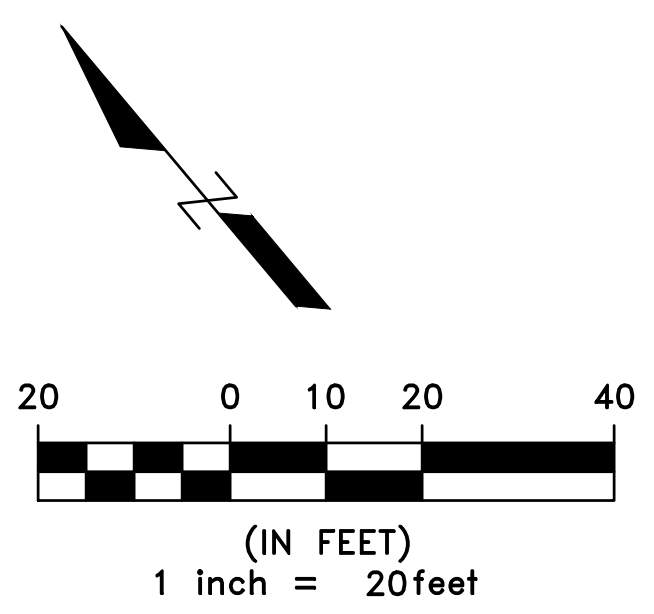
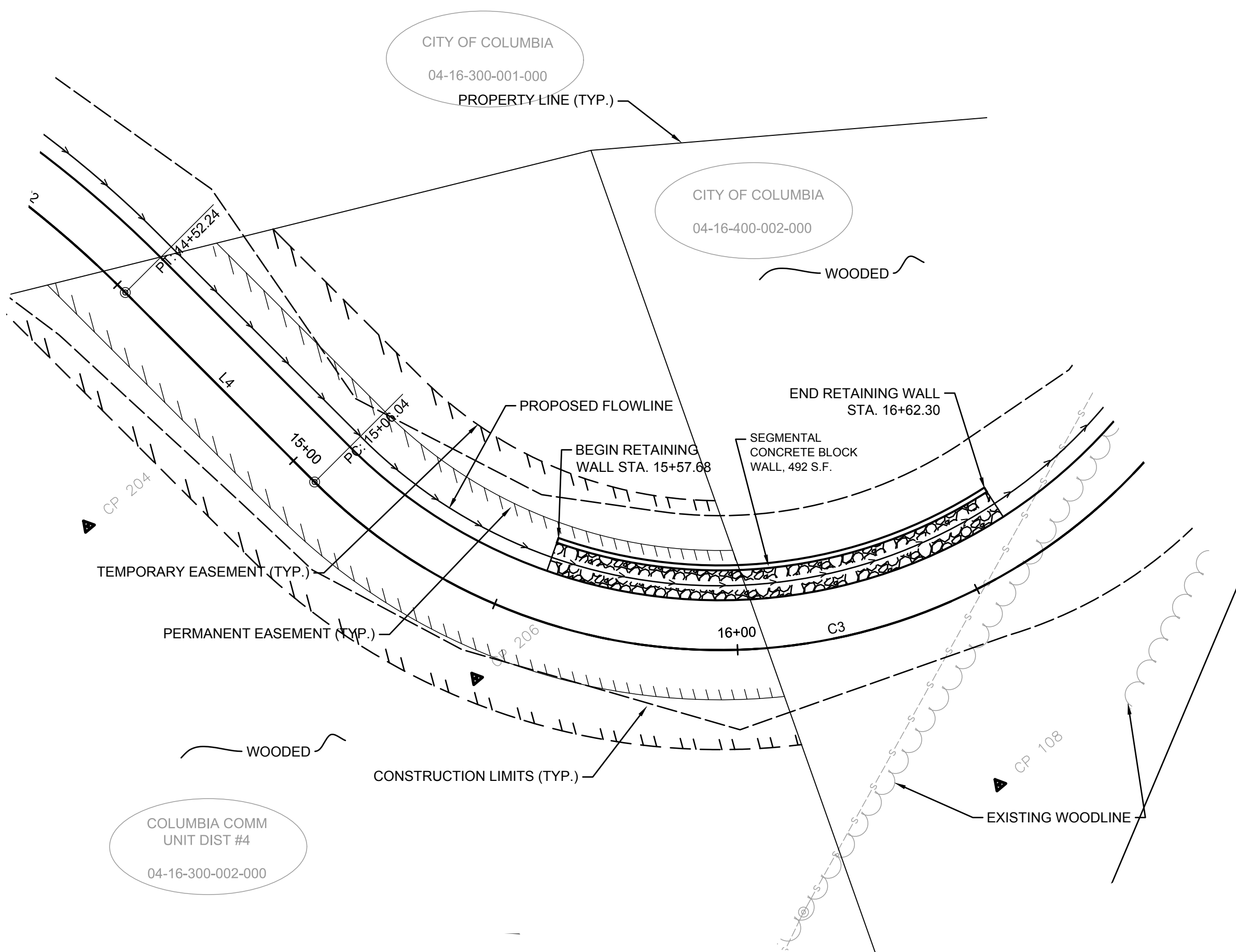
NOTE: SEE INTERSECTION AND RAMP DETAILS FOR SPOT ELEVATIONS.

NOTE: PLACE WAYFINDING SIGNS (SEE DETAIL BELOW) 100' (MIN.) OFFSET INTERSECTION OF MAIN ST. AND W. MONROE ST.

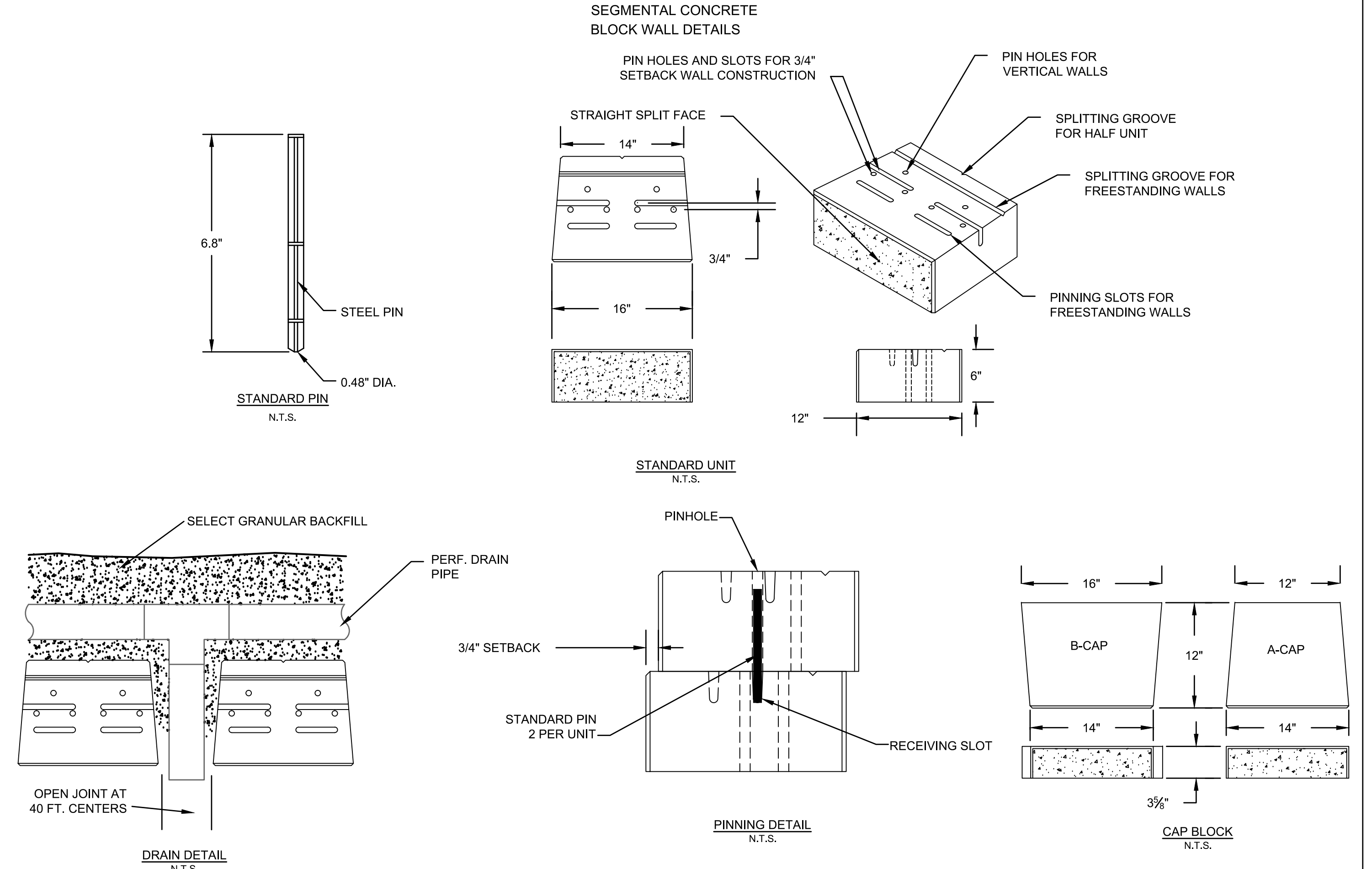
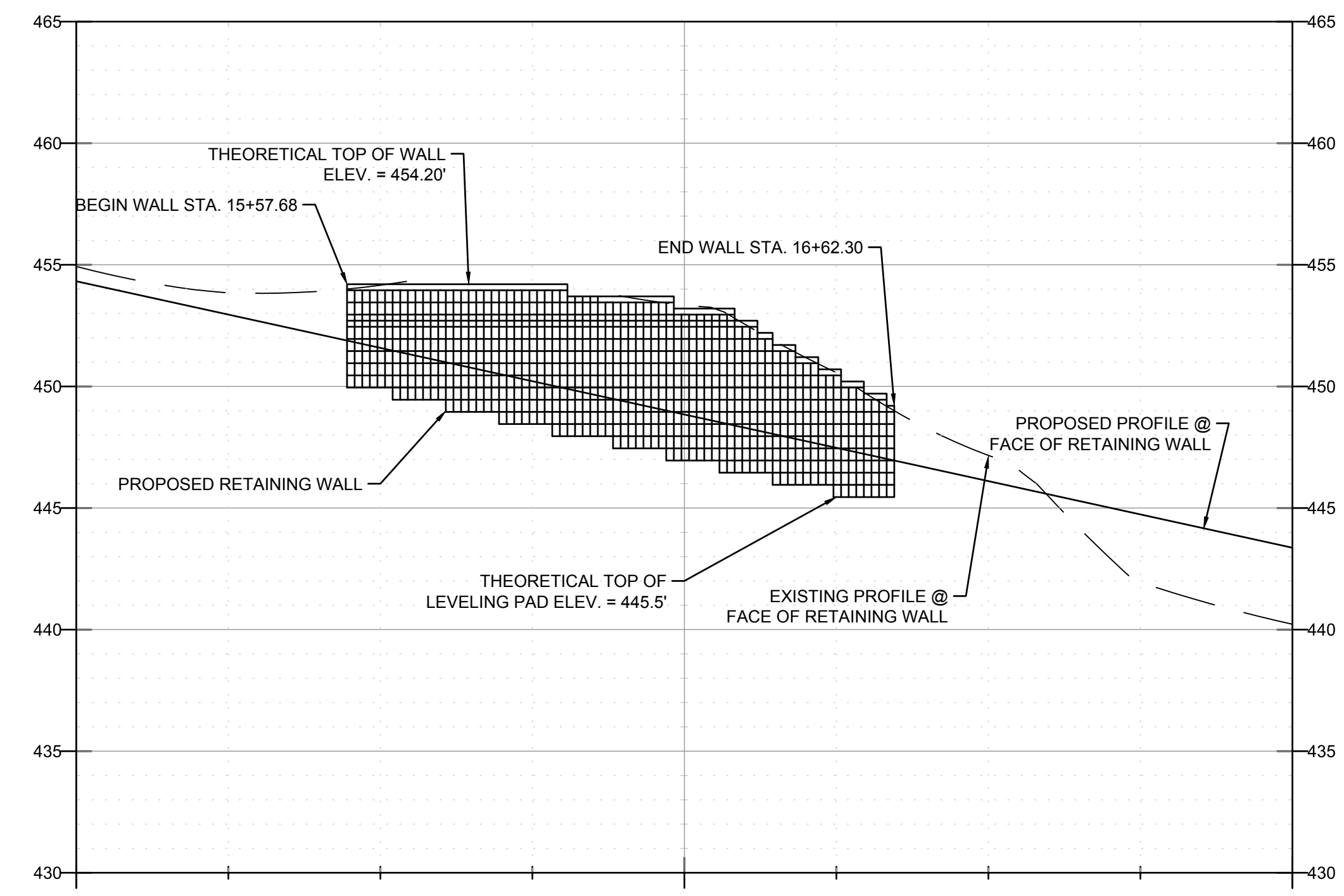


M:\Projects\2017\17-965 City of Columbia Bolm-Schuhkraft Connector Trail\20 Design\CADD\SHEETS\17-265 PLAN AND PROFILE.dwg
 Plotted on: 12/6/2019 10:03 AM
 Plotted By: Ian Gunn

F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
MUN 1194	17-00054-00-BT	MONROE	46	18
STA. 14+27	TO STA. 16+90.21			
FEDERAL AID PROJECT		CONTRACT 97701		

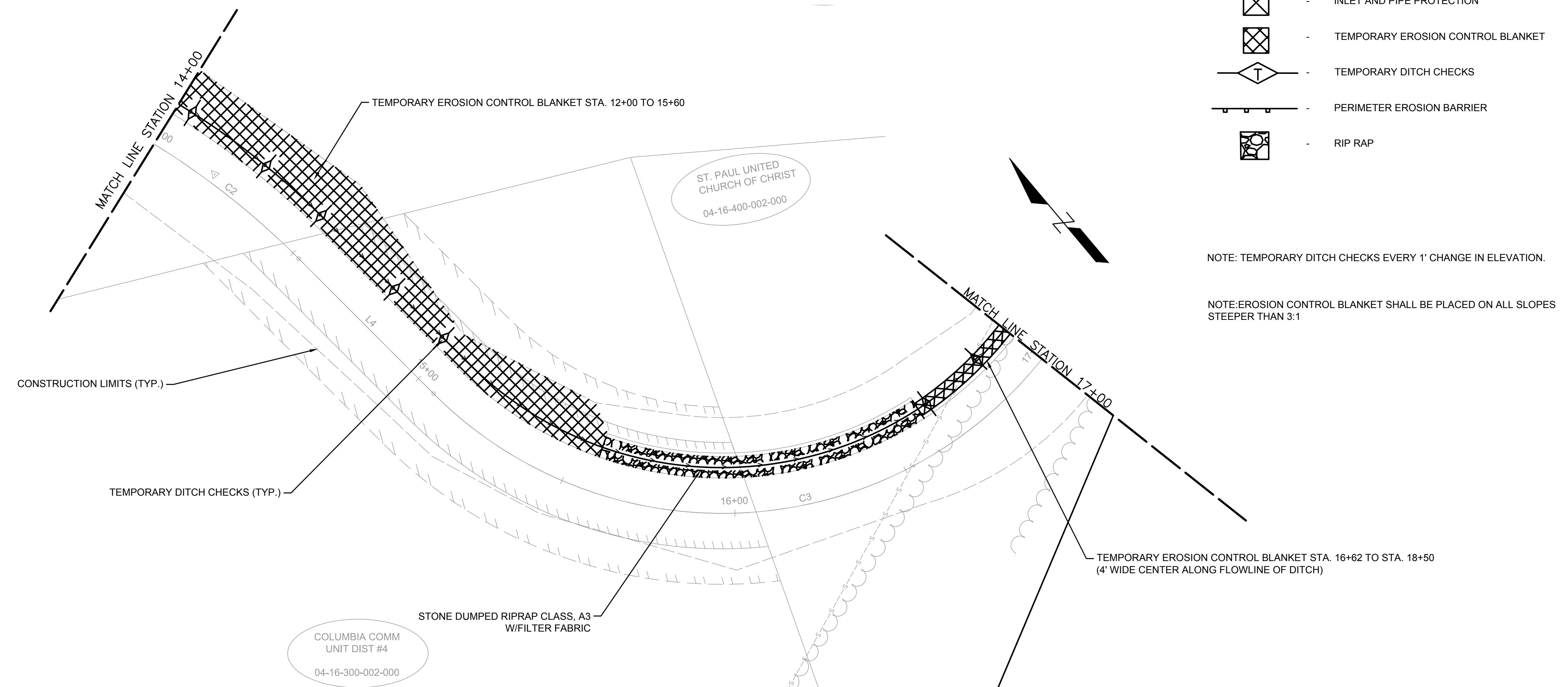
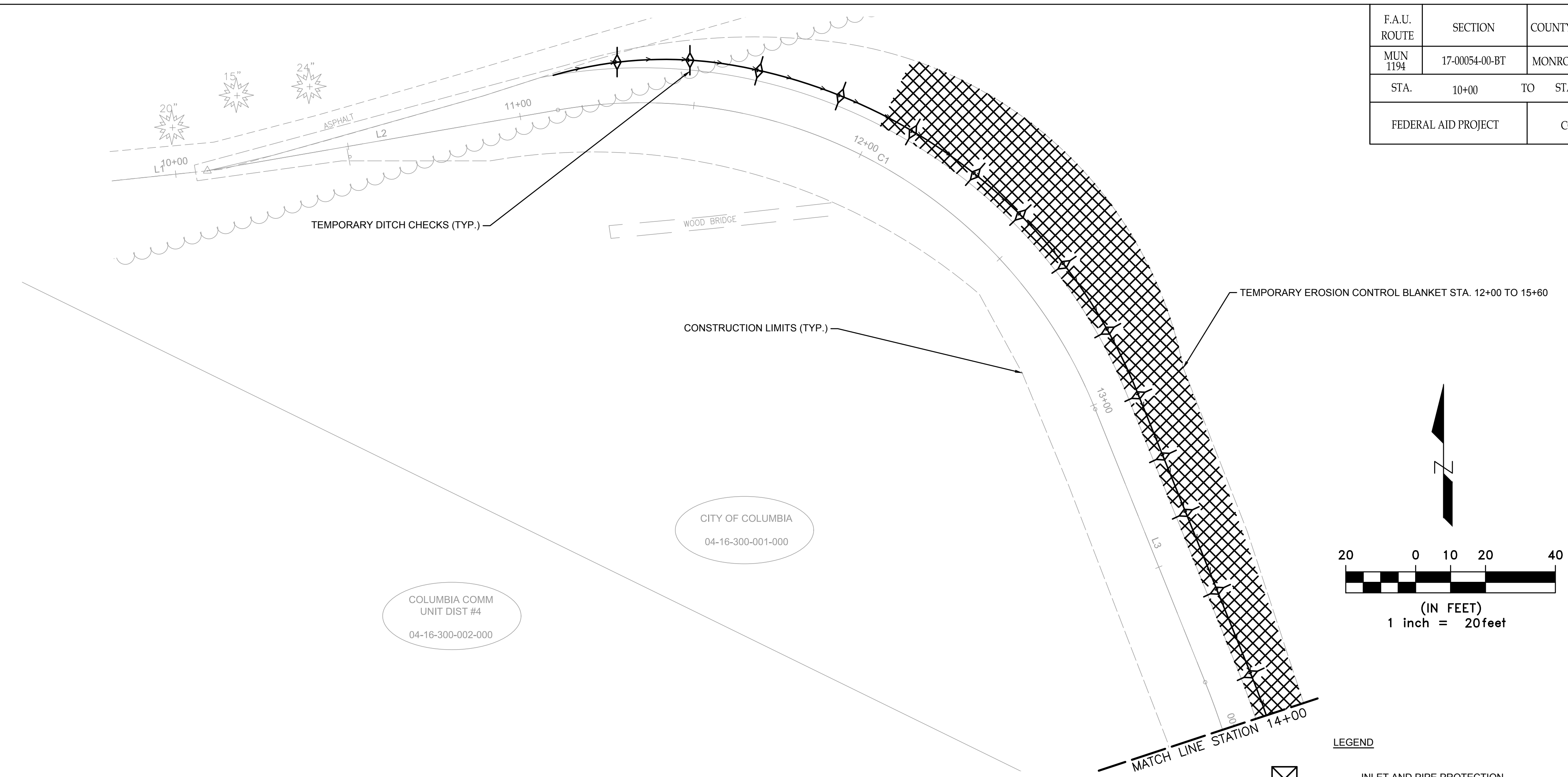


NOTE: EARTHWORK ASSOCIATED WITH RETAINING WALL CONSTRUCTION SHALL BE INCLUDED IN THE COST OF THE SEGMENTAL CONCRETE BLOCK WALL.



M:\Projects\2017\17-265 City of Columbia Bolm-Schuhkraft Connector Trail\20 Design\CADD\SHEETS\17-265 PLAN AND PROFILE.dwg
 Plotted on: 12/6/2019 10:04 AM
 Plotted By: Ian Quinn

F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
MUN 1194	17-00054-00-BT	MONROE	46	19
STA. 10+00		TO STA. 17+00		
FEDERAL AID PROJECT		CONTRACT 97701		



- LEGEND**
- INLET AND PIPE PROTECTION
 - TEMPORARY EROSION CONTROL BLANKET
 - TEMPORARY DITCH CHECKS
 - PERIMETER EROSION BARRIER
 - RIP RAP

NOTE: TEMPORARY DITCH CHECKS EVERY 1' CHANGE IN ELEVATION.

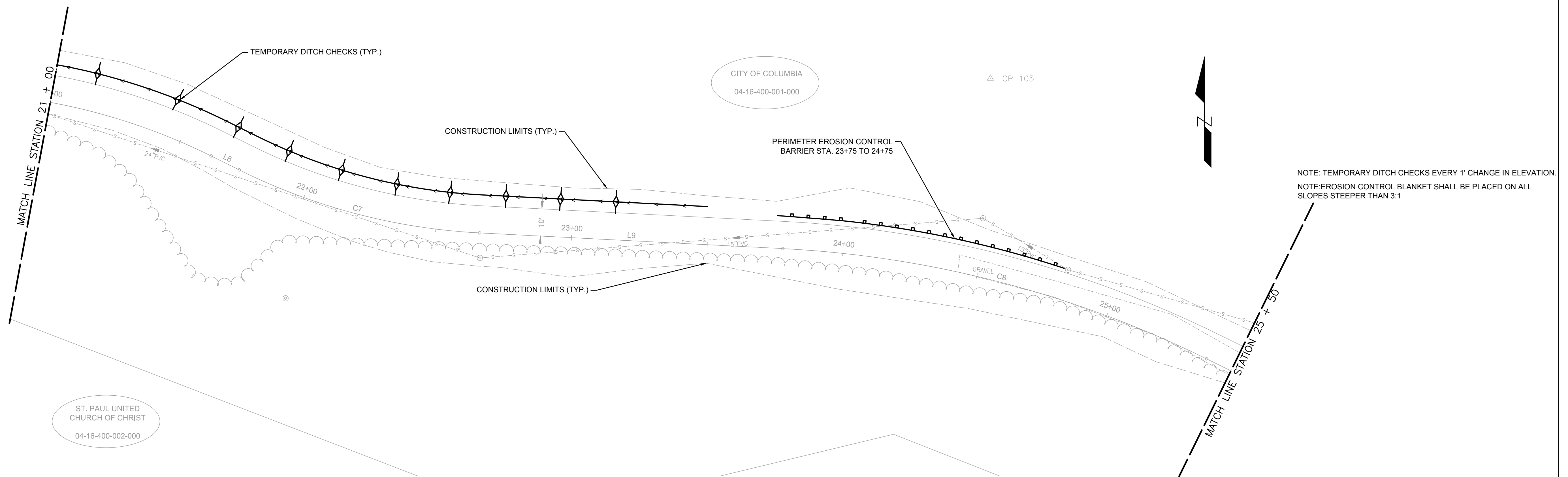
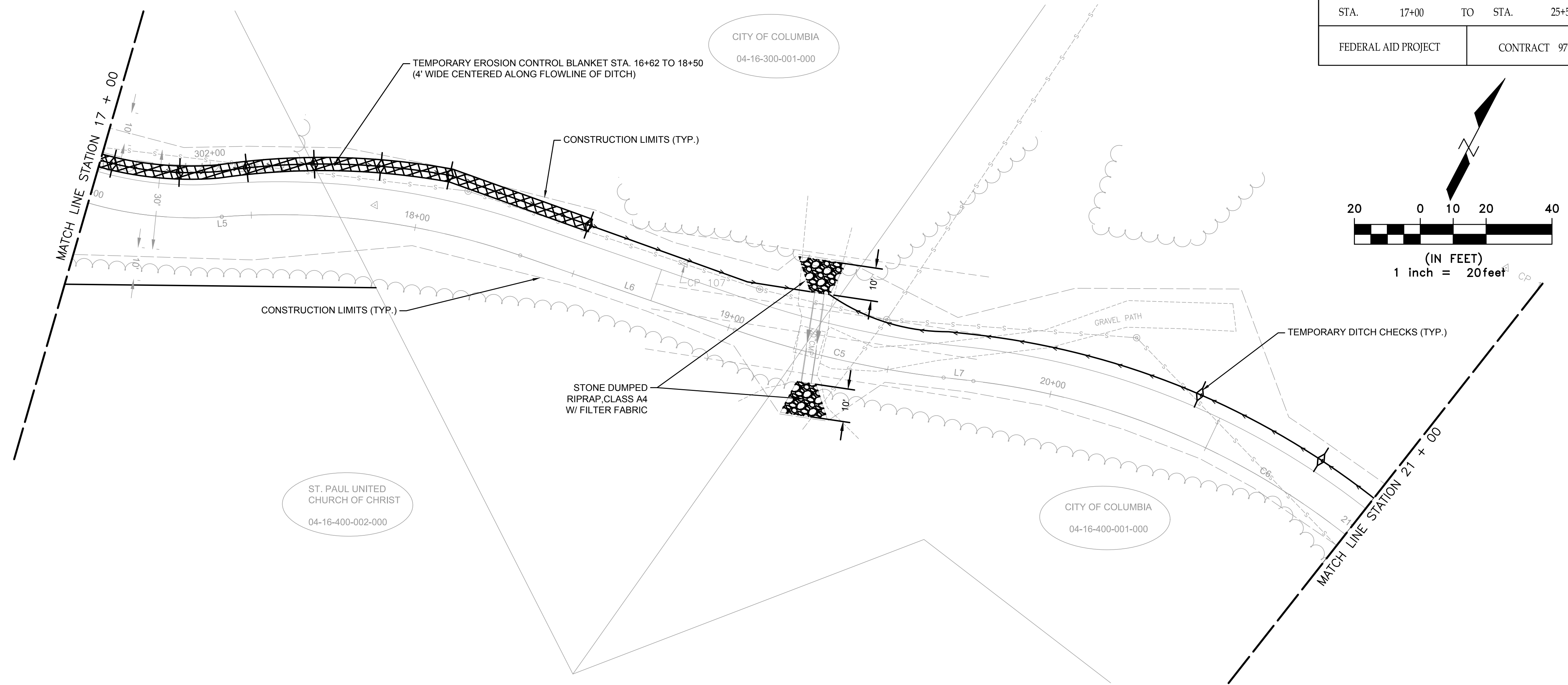
NOTE: EROSION CONTROL BLANKET SHALL BE PLACED ON ALL SLOPES STEEPER THAN 3:1

**EROSION CONTROL PLAN
SECTION 17-00054-00-BT**

**BOLM - SCHUHKRAFT CONNECTOR TRAIL
COLUMBIA, ILLINOIS**

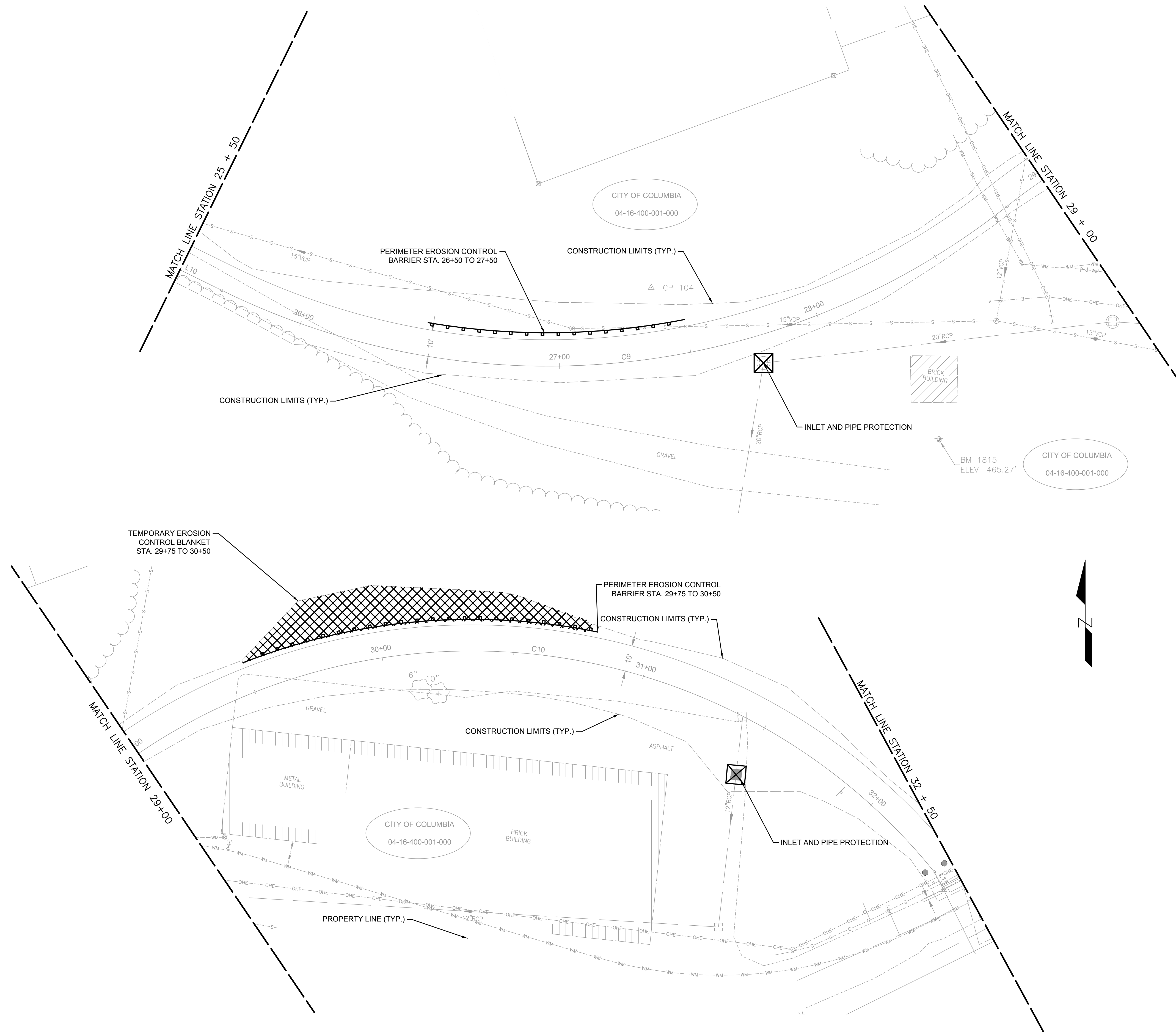
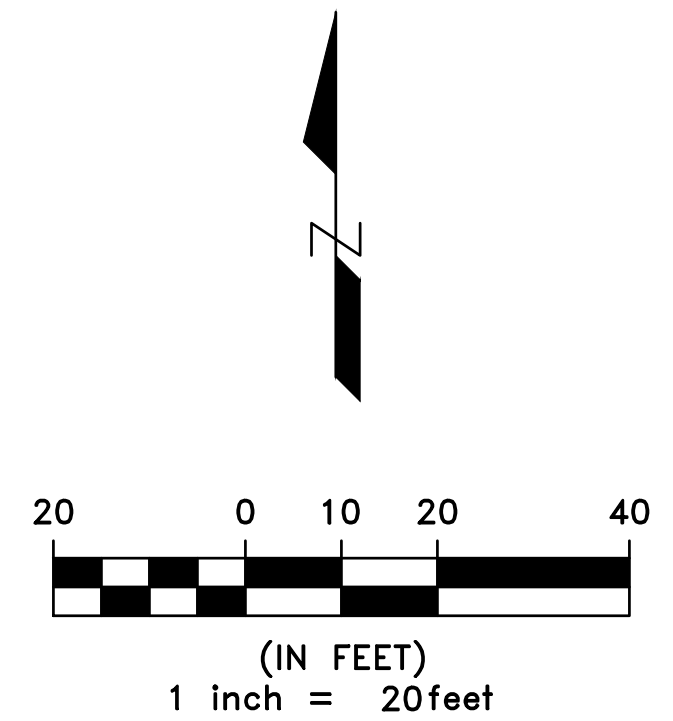
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 Plotted on: 12/6/2019 10:04 AM
 Plotted by: lan_sam

F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
MUN 1194	17-00054-00-BT	MONROE	46	20
STA. 17+00	TO STA. 25+50			
FEDERAL AID PROJECT		CONTRACT 97701		



M:\Projects\2017\17-265 City of Columbia Bolm-Schuhkraft Connector Trail\20 Design\CADD\SHEETS\17-265_EROSION_CONTROL.dwg
 Plotted By: Ian Gunn
 12/6/2019 10:04 AM

F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
MUN 1194	17-00054-00-BT	MONROE	46	21
STA. 25+50		TO STA. 32+50		
FEDERAL AID PROJECT		CONTRACT 97701		



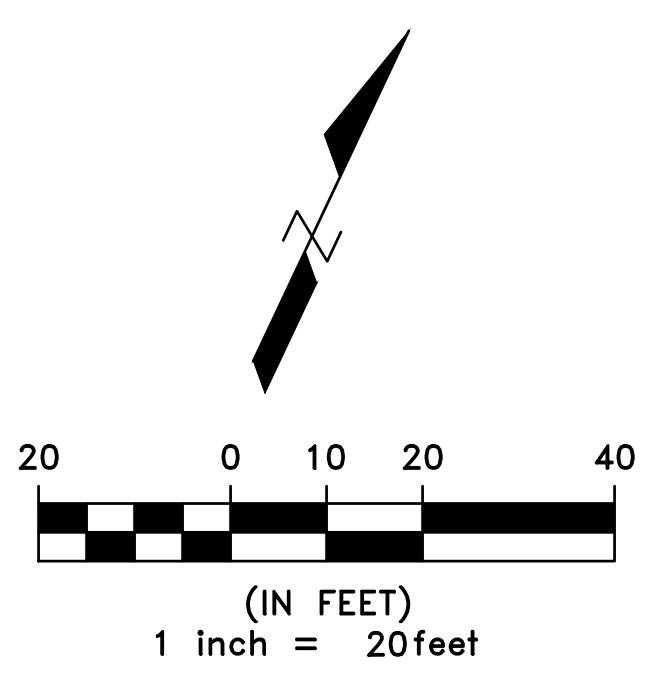
LEGEND

	-	INLET AND PIPE PROTECTION
	-	TEMPORARY EROSION CONTROL BLANKET
	-	TEMPORARY DITCH CHECKS
	-	PERIMETER EROSION BARRIER



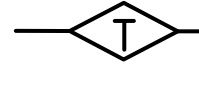
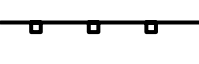
NOTE: EROSION CONTROL BLANKET SHALL BE PLACED ON ALL SLOPES STEEPER THAN 3:1

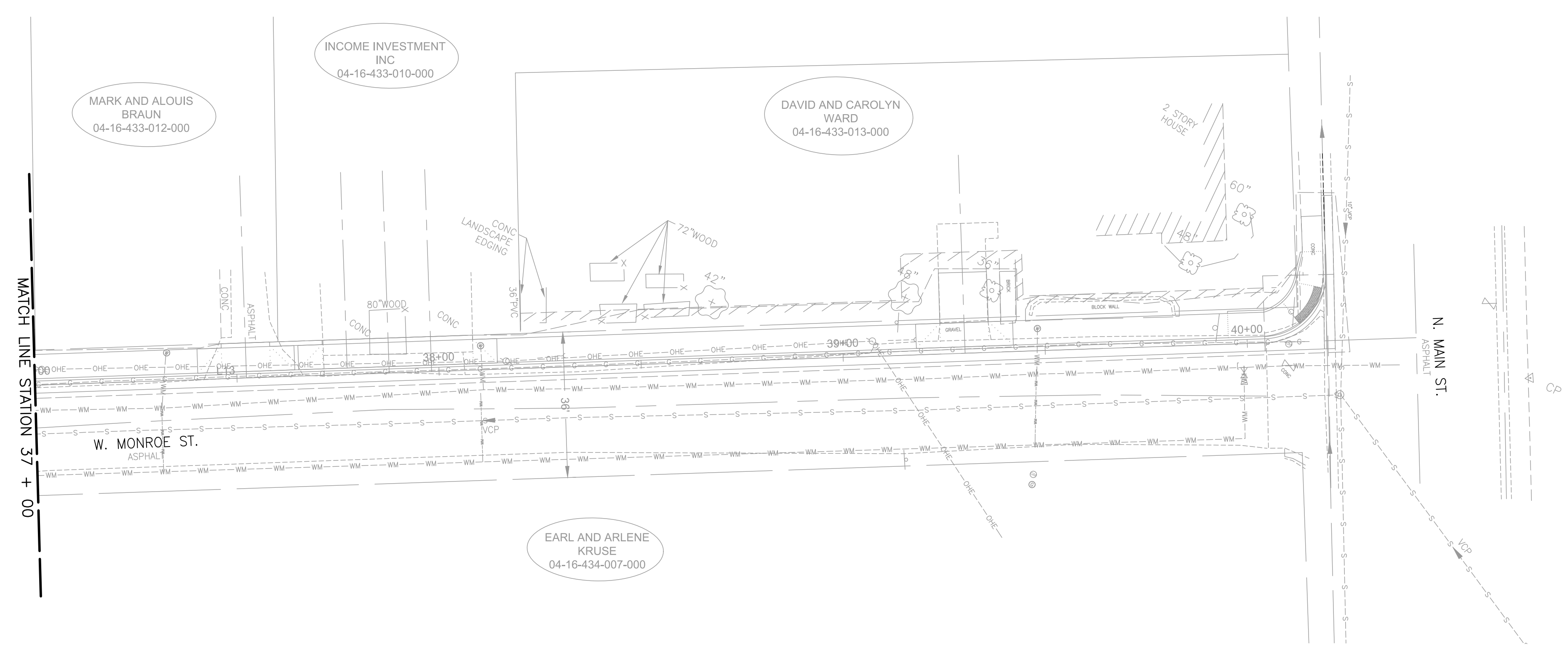
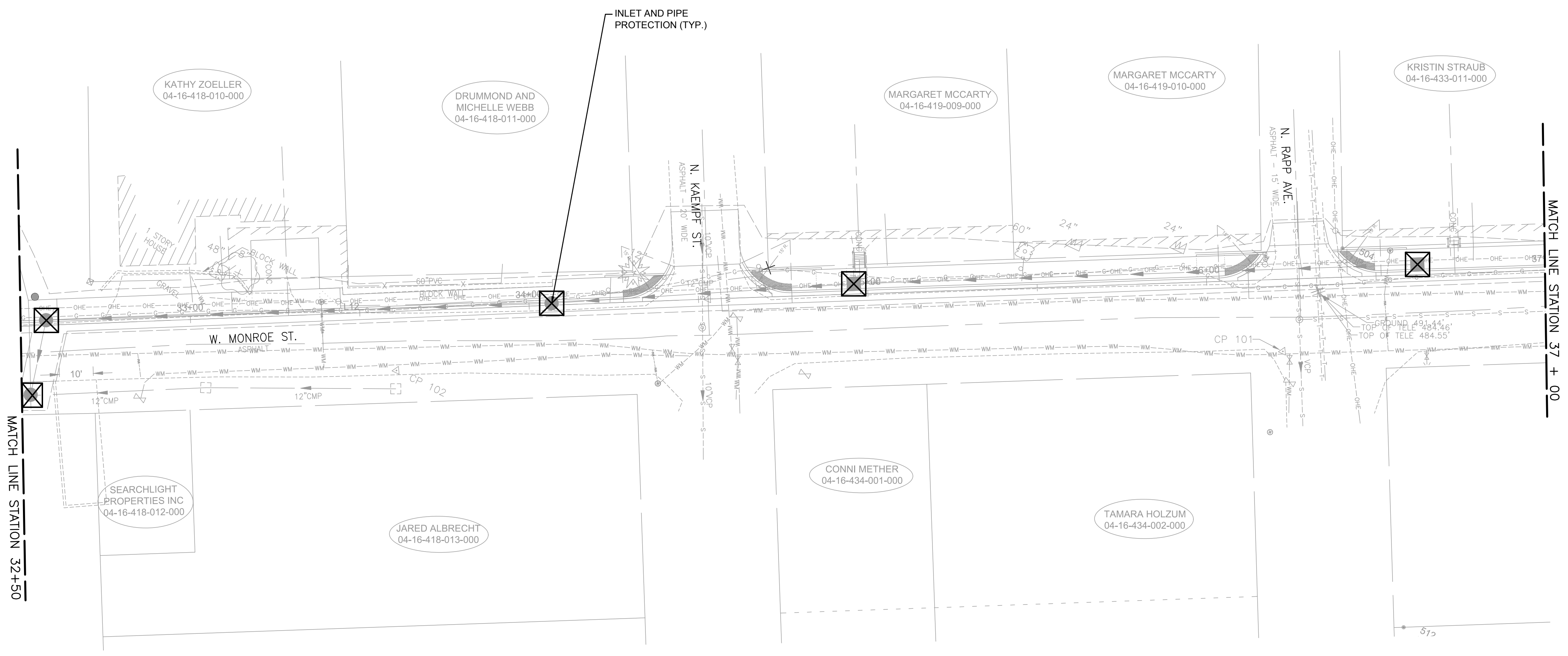
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 Plotted on: 12/6/2019 10:05 AM
 Plotted by: Ian Gunn

F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
MUN 1194	17-00054-00-BT	MONROE	46	22
STA. 32+50	TO STA. 40+21.75			
FEDERAL AID PROJECT		CONTRACT 97701		



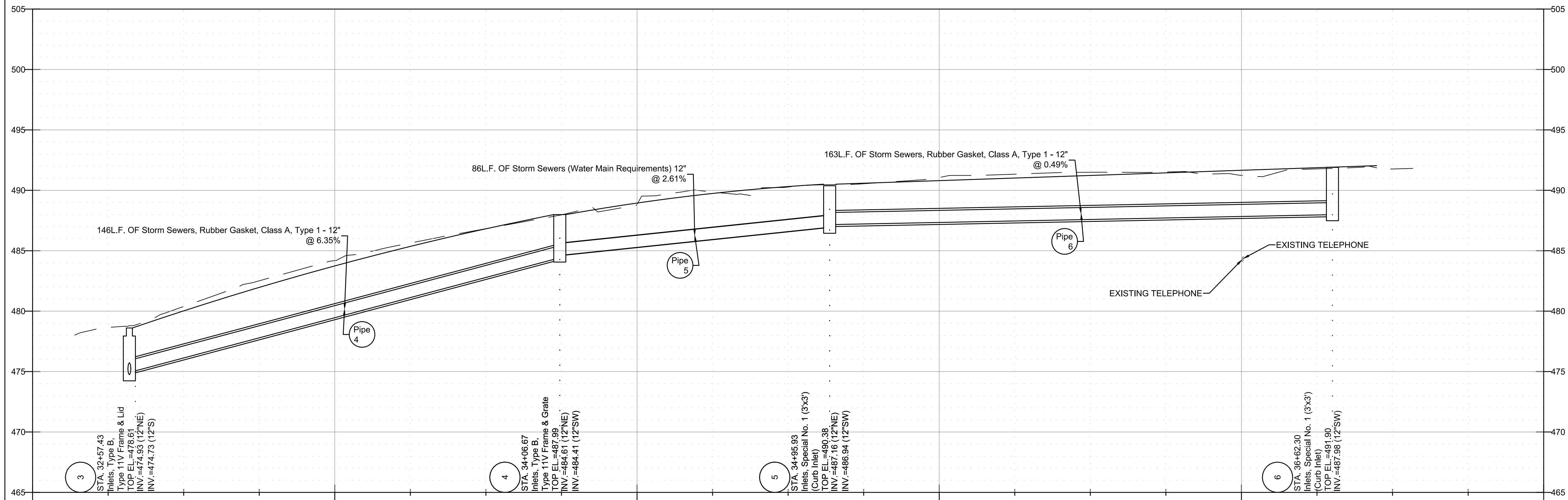
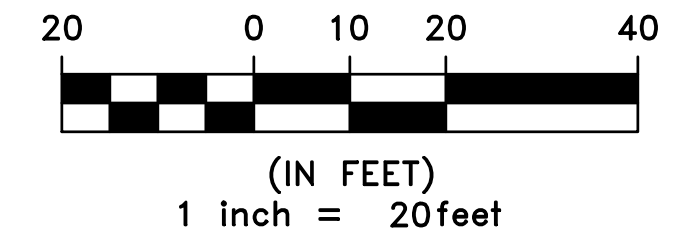
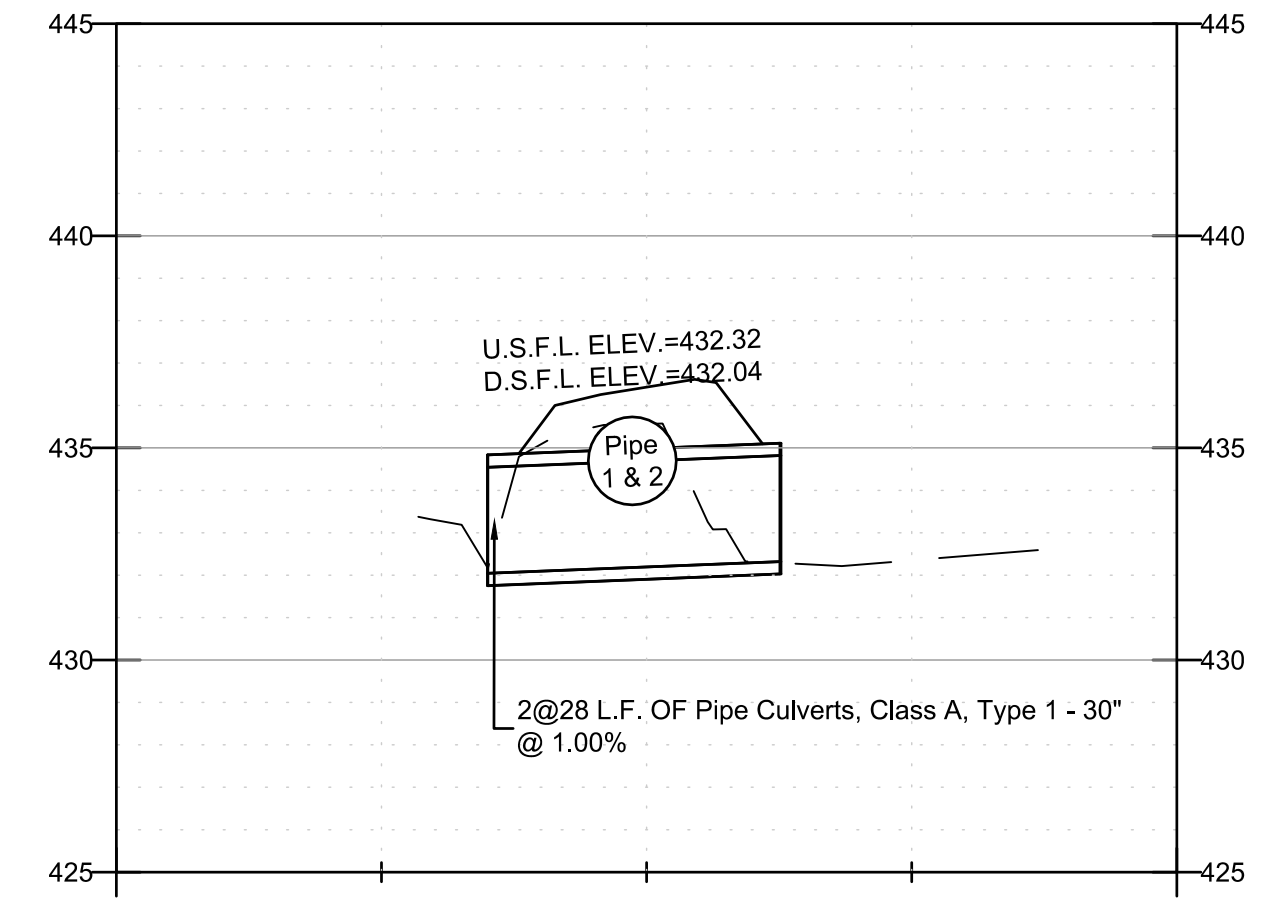
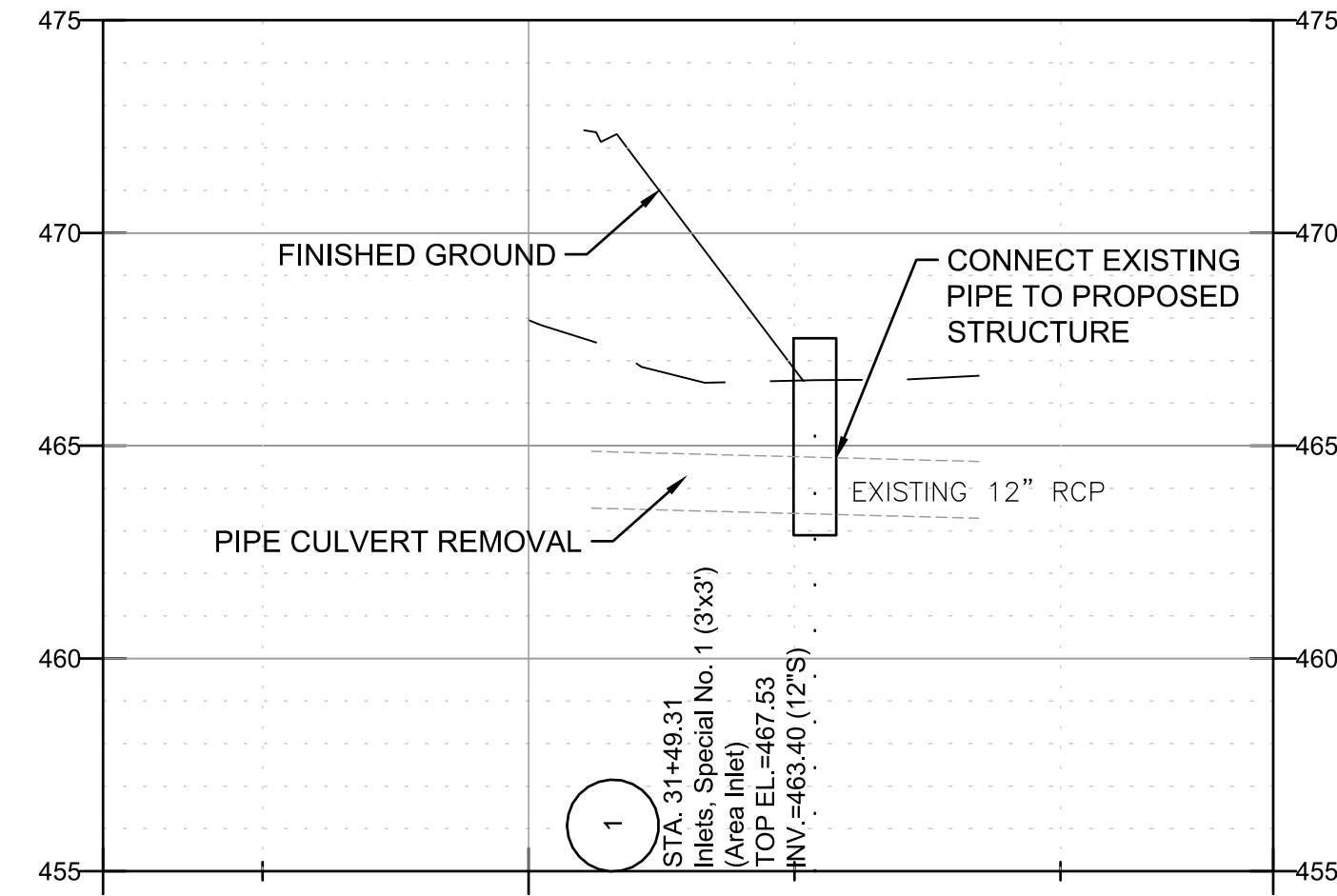
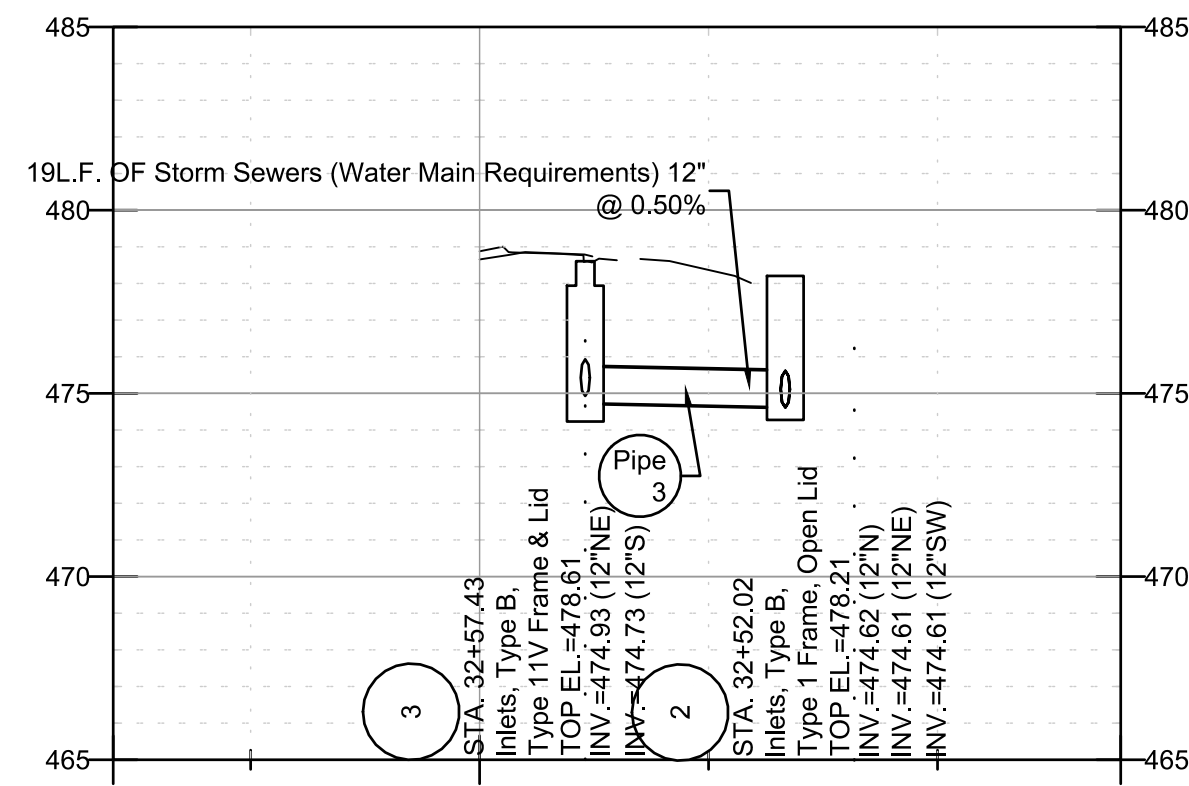
NOTE: EROSION CONTROL BLANKET SHALL BE PLACED ON ALL SLOPES STEEPER THAN 3:1

- LEGEND**
-  - INLET AND PIPE PROTECTION
 -  - TEMPORARY EROSION CONTROL BLANKET
 -  - TEMPORARY DITCH CHECKS
 -  - PERIMETER EROSION BARRIER



M:\Projects\2017\17-265 City of Columbia Bolm-Schuhkraft Connector Trail\20 Design\CADD\SHEETS\17-265_EROSION CONTROL.dwg
 Plotted on: 12/6/2019 10:05 AM
 Plotted By: Ian Gunn

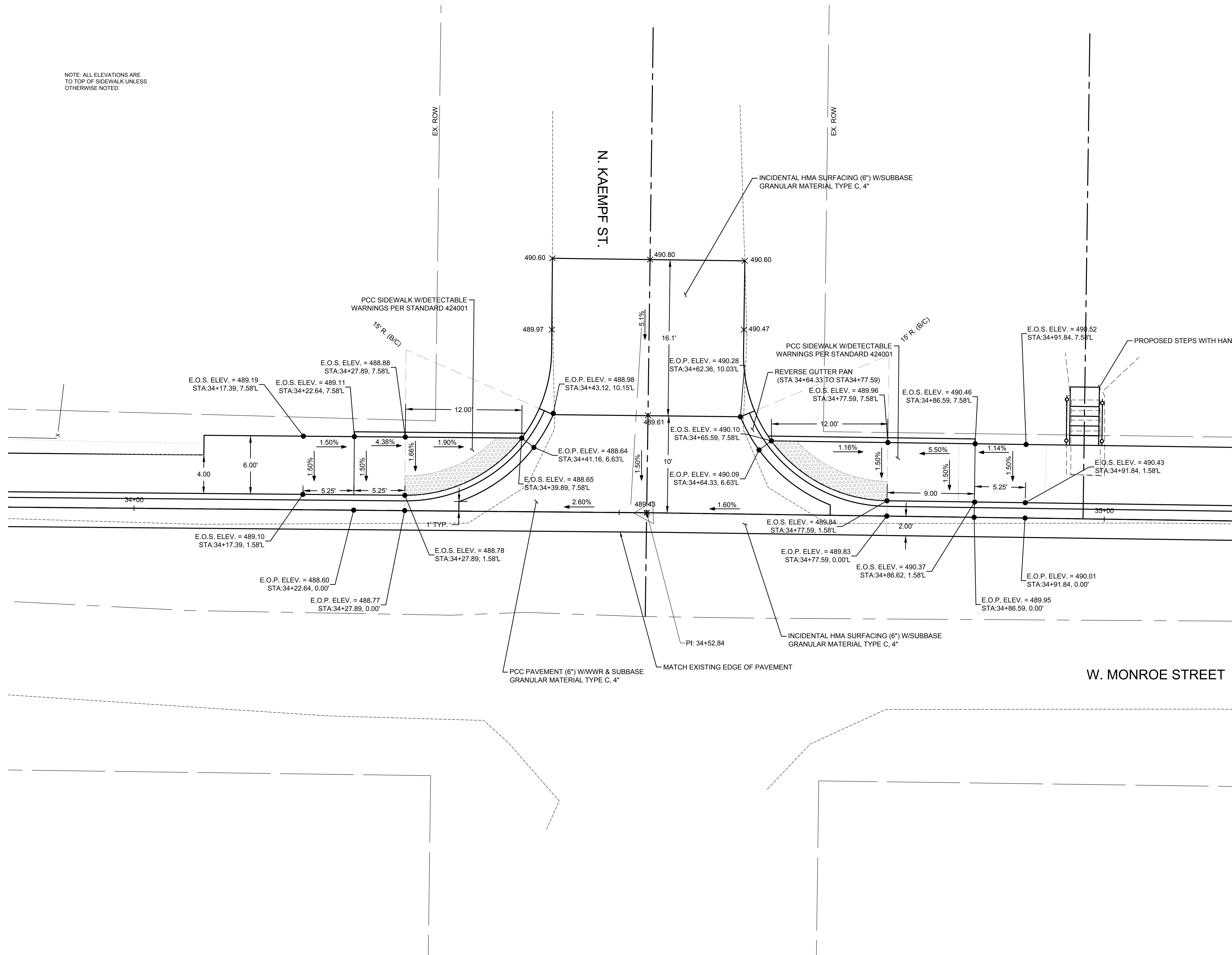
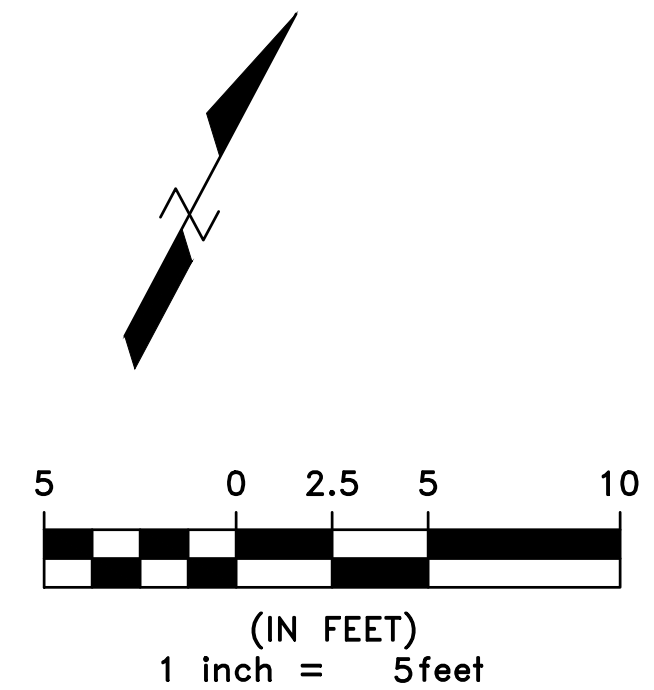
F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
MUN 1194	17-00054-00-BT	MONROE	46	23
STA. 10+00		TO STA.	15+00	
FEDERAL AID PROJECT		CONTRACT 97701		



M:\Projects\2017\17-265_City of Columbia Bolm-Schuhkraft Connector Trail\20 Design\CADD\SHEETS\17-265 PLAN AND PROFILE.dwg
 Plotted on: 12/6/2019 10:05 AM
 Plotted By: Ian Gunn

F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
MUN 1194	17-00054-00-BT	MONROE	46	24
FEDERAL AID PROJECT		CONTRACT 97701		

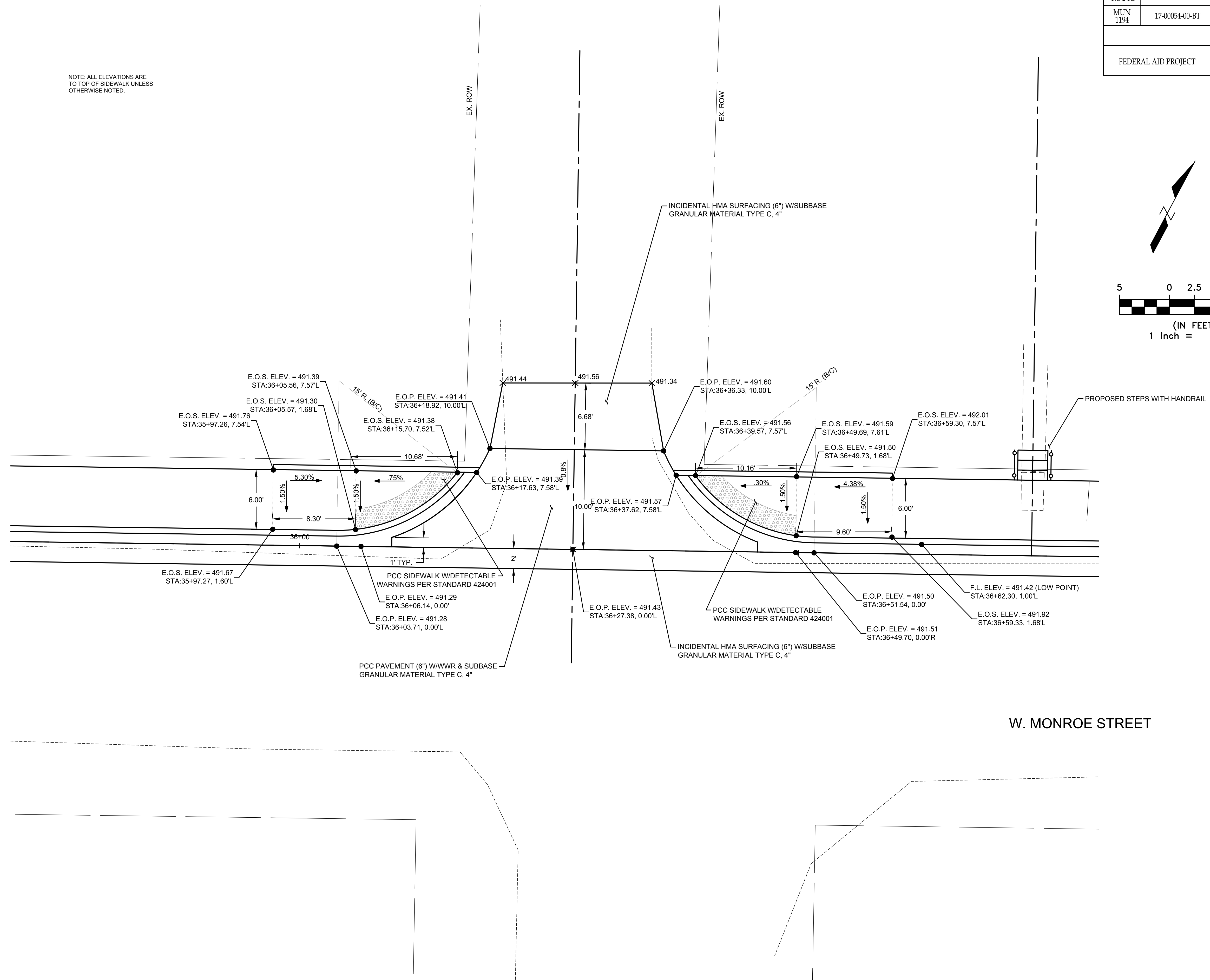
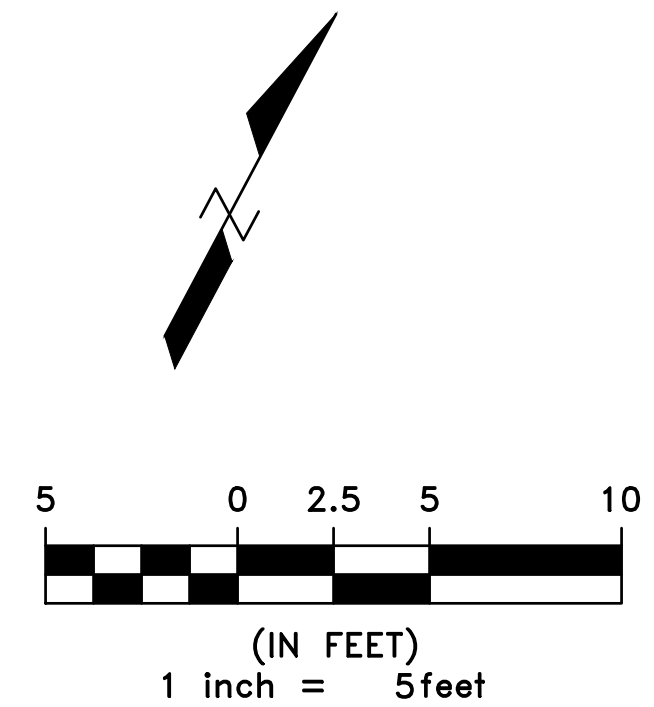
NOTE: ALL ELEVATIONS ARE TO TOP OF SIDEWALK UNLESS OTHERWISE NOTED.



M:\Projects\2017\7-265 City of Columbia Bolm-Schuhkraft Connector Trail\20 Design\CADD\SHEETS\7-265_INTERSECTION DETAILS.dwg
 Plotted on: 12/6/2019 10:06 AM
 Plotted By: Ian Gunn

F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
MUN 1194	17-00054-00-BT	MONROE	46	25
FEDERAL AID PROJECT		CONTRACT 97701		

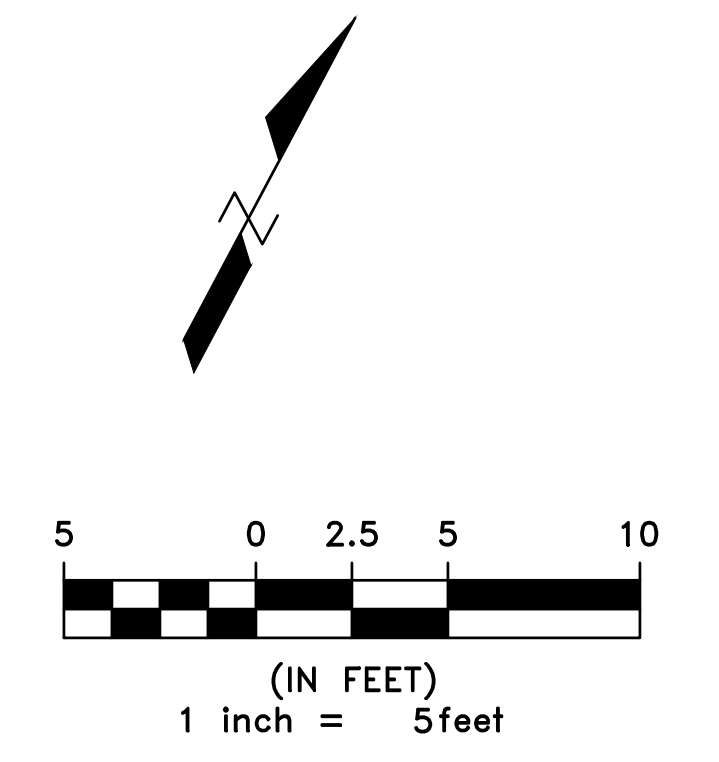
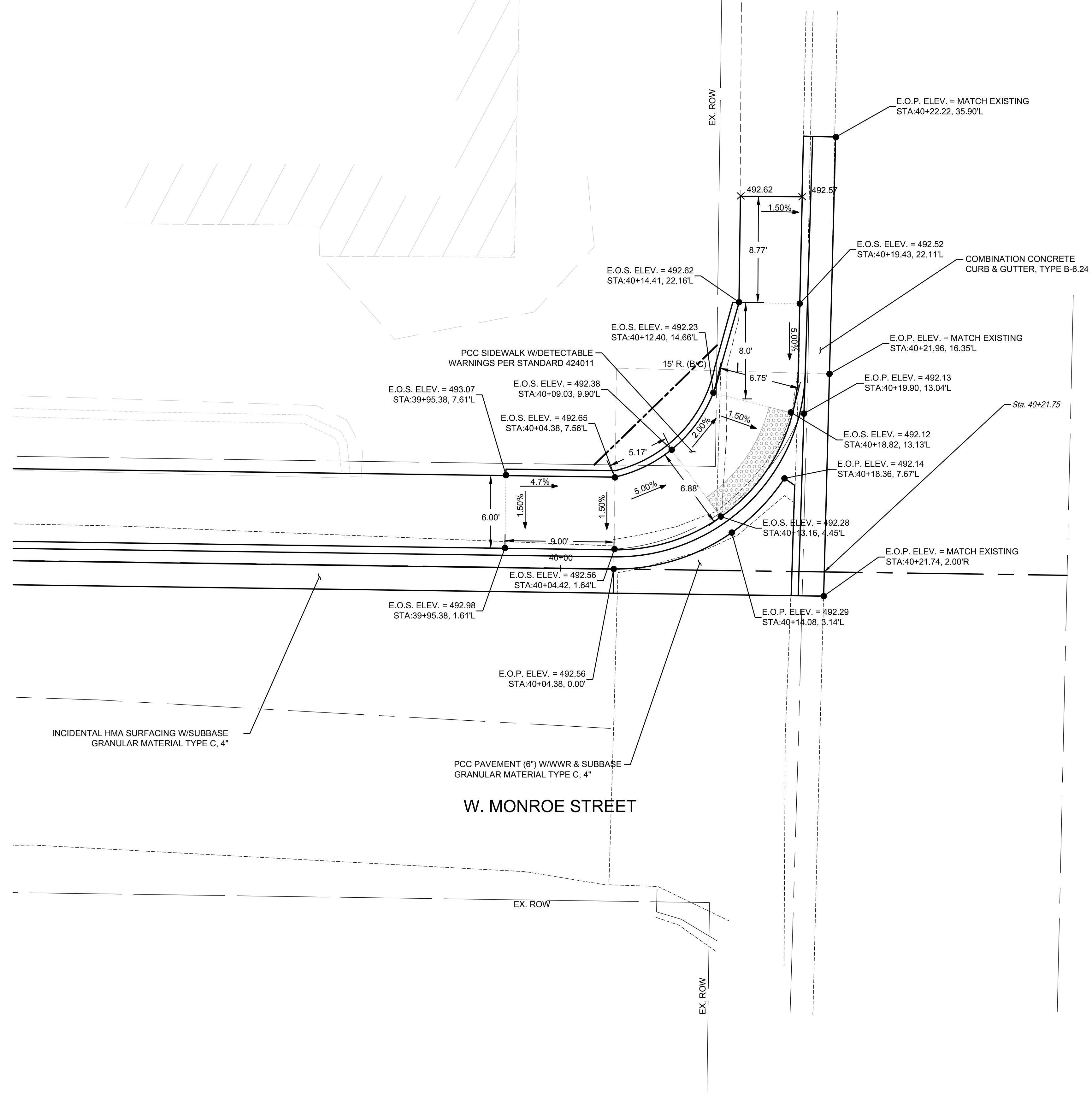
NOTE: ALL ELEVATIONS ARE TO TOP OF SIDEWALK UNLESS OTHERWISE NOTED.



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 Plotted on: 12/6/2019 10:06 AM
 Plotted By: Ian Gunn

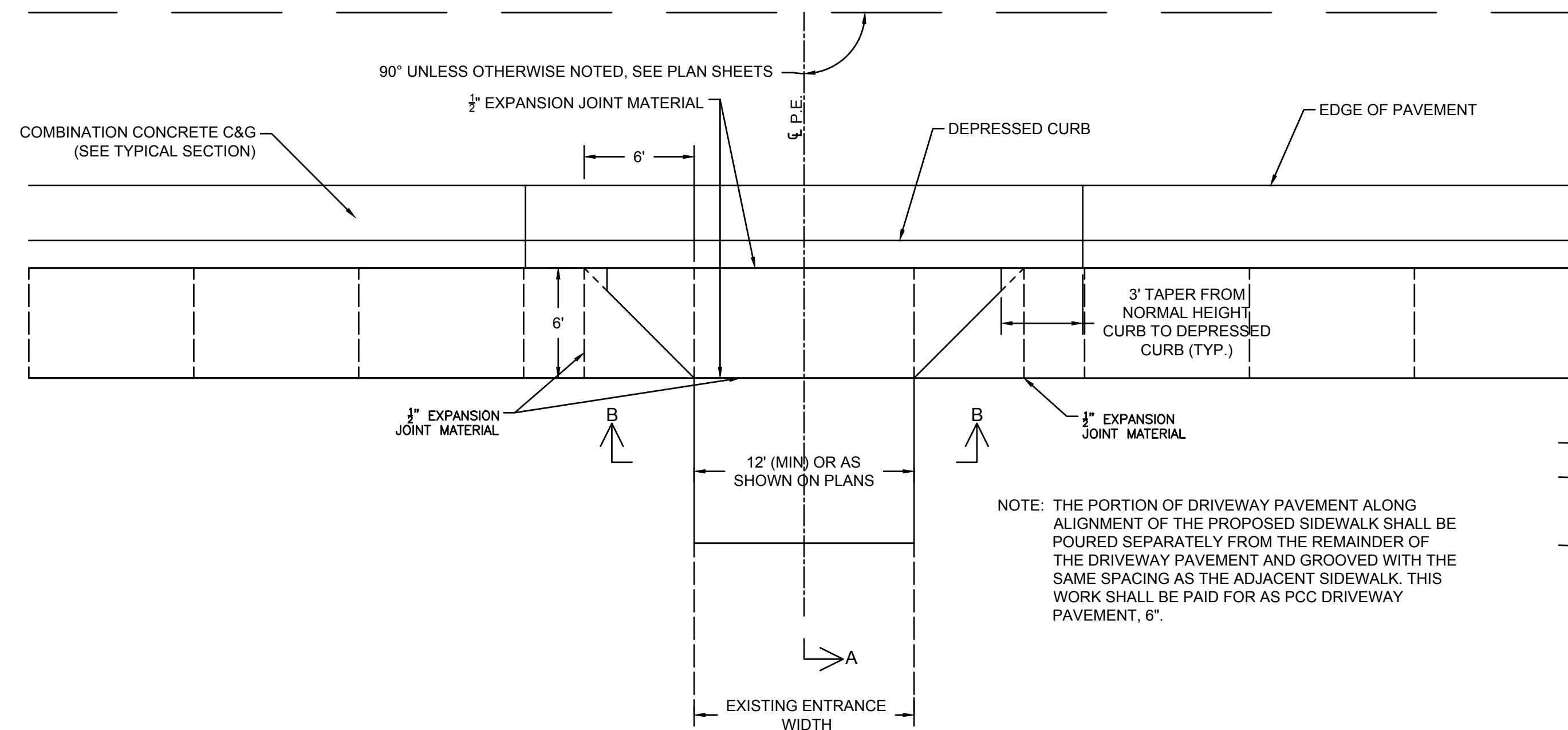
F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
MUN 1194	17-00054-00-BT	MONROE	46	26
FEDERAL AID PROJECT		CONTRACT 97701		

NOTE: ALL ELEVATIONS ARE TO TOP OF SIDEWALK UNLESS OTHERWISE NOTED.



M:\Projects\2017\7-265 City of Columbia Bolm-Schuhkraft Connector Trail\20 Design\CADD\SHEETS\7-265_INTERSECTION DETAILS.dwg
 Plotted on: 12/6/2019 10:06 AM
 Plotted By: Ian Gunn

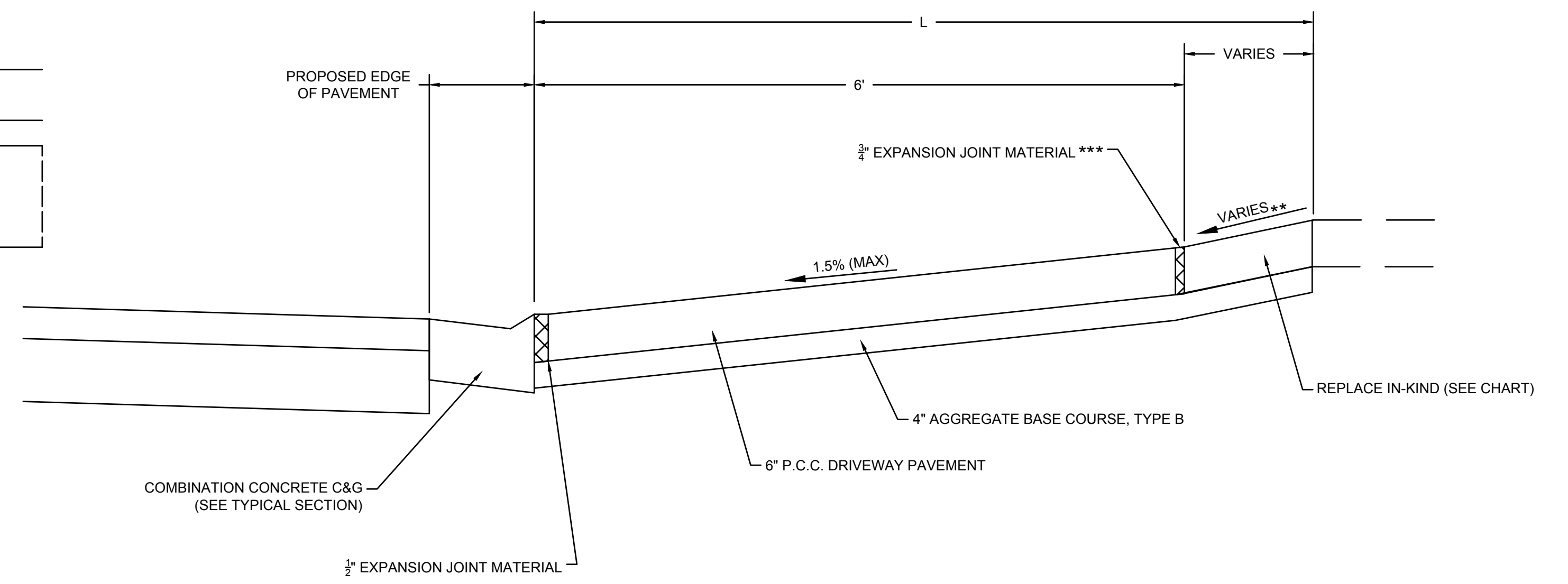
F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
MUN 1194	17-00054-00-BT	MONROE	46	27
FEDERAL AID PROJECT		CONTRACT 97701		



P.E. DETAIL "A"

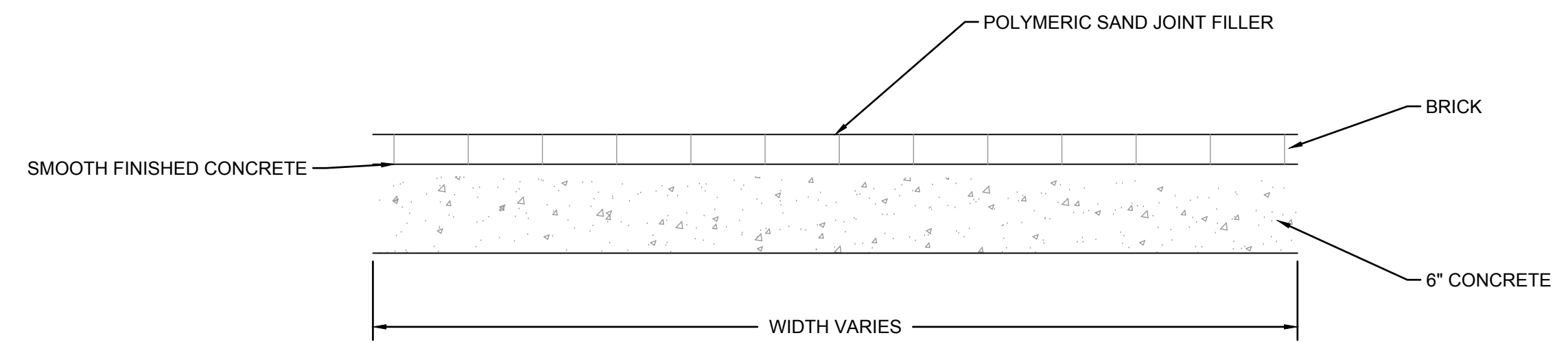
PRIVATE ENTRANCE WITH SIDEWALK ADJACENT TO ROADWAY PAVEMENT AND CONCRETE CURB & GUTTER
N.T.S

EXISTING MATERIAL	NEW ENTRANCE MATERIAL				
	PCC DRIVEWAY PAVEMENT 6"	INCIDENTAL HOT-MIX ASPHALT SURFACING 3"	AGGREGATE BASE COURSE, TYPE B, 4"	AGGREGATE BASE COURSE, TYPE B, 8"	AGGREGATE SURFACE COURSE, TYPE B, 6"
CONCRETE	X		X		
ASPHALT		X		X	
AGGREGATE					X



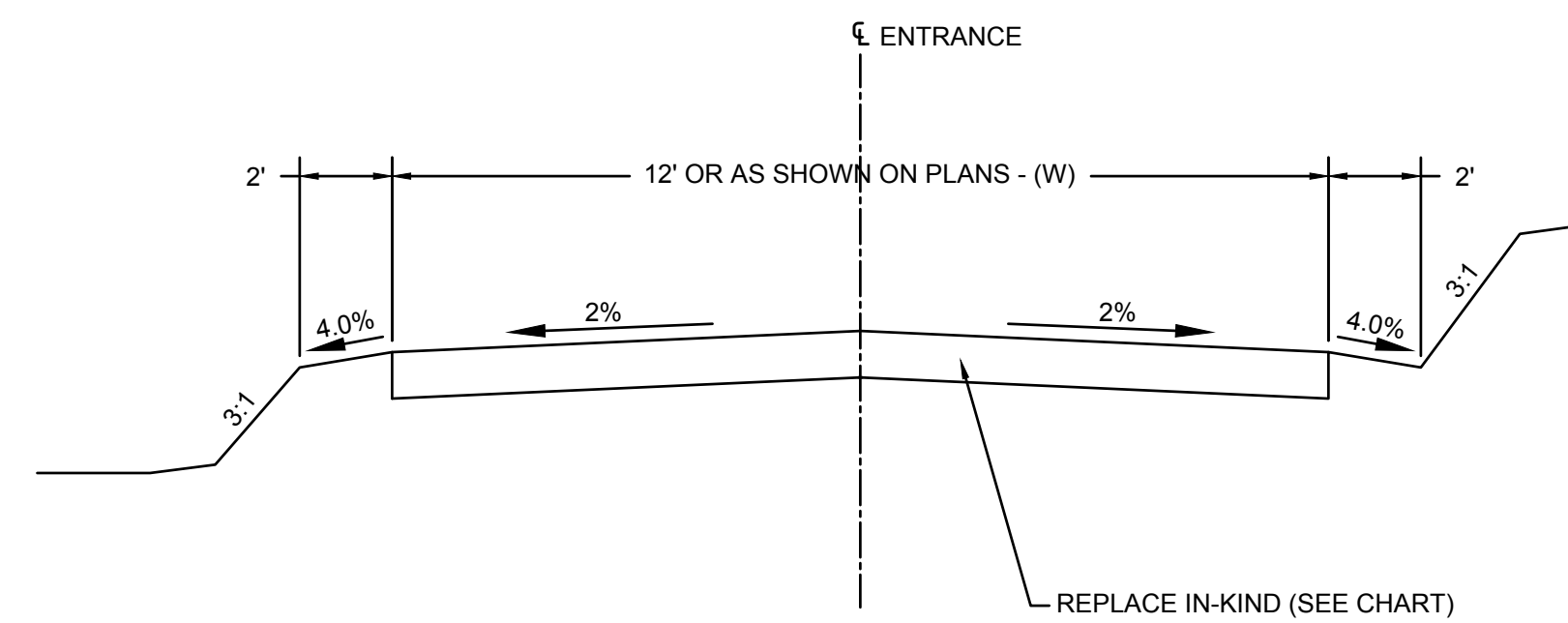
SECTION "A-A"

* SEE ENTRANCE SCHEDULE FOR DISTANCES
** SEE CROSS SECTIONS FOR SLOPES
*** EXPANSION REQUIRED ADJACENT TO CONCRETE PAVEMENT

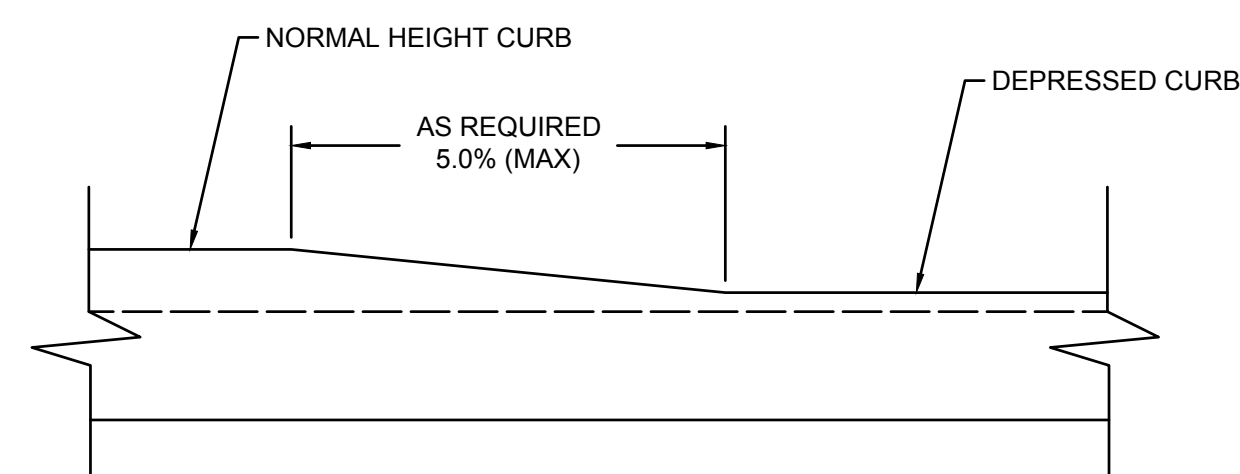


PAVING BRICK FOR LIGHT TRAFFIC (BRICK DRIVEWAY)

NOT TO SCALE
NOTE: ALL MATERIALS SHOWN SHALL BE INCLUDED IN THE COST PER SQUARE YARD "PAVING BRICK FOR LIGHT TRAFFIC".



SECTION "B-B"

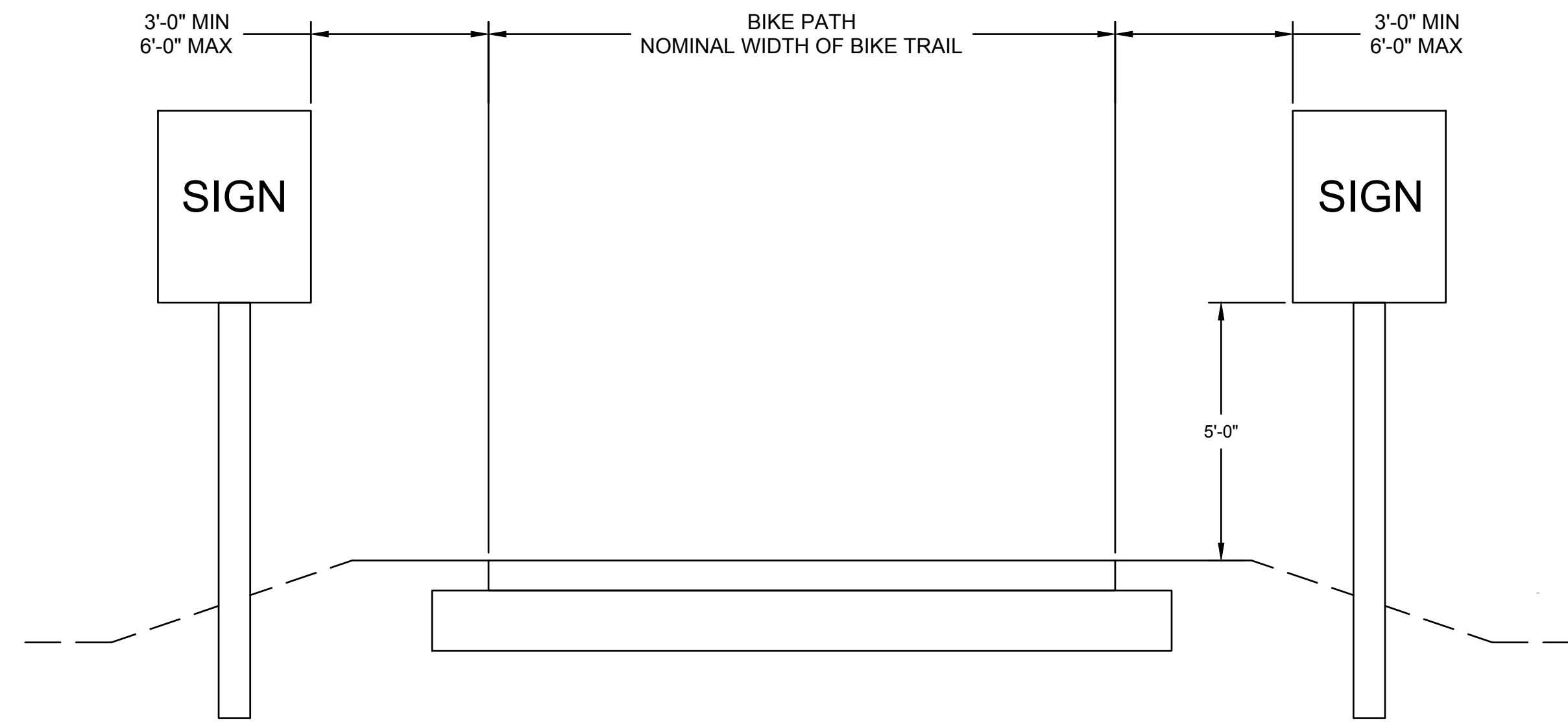


DETAIL OF CURB HEIGHT TRANSITION

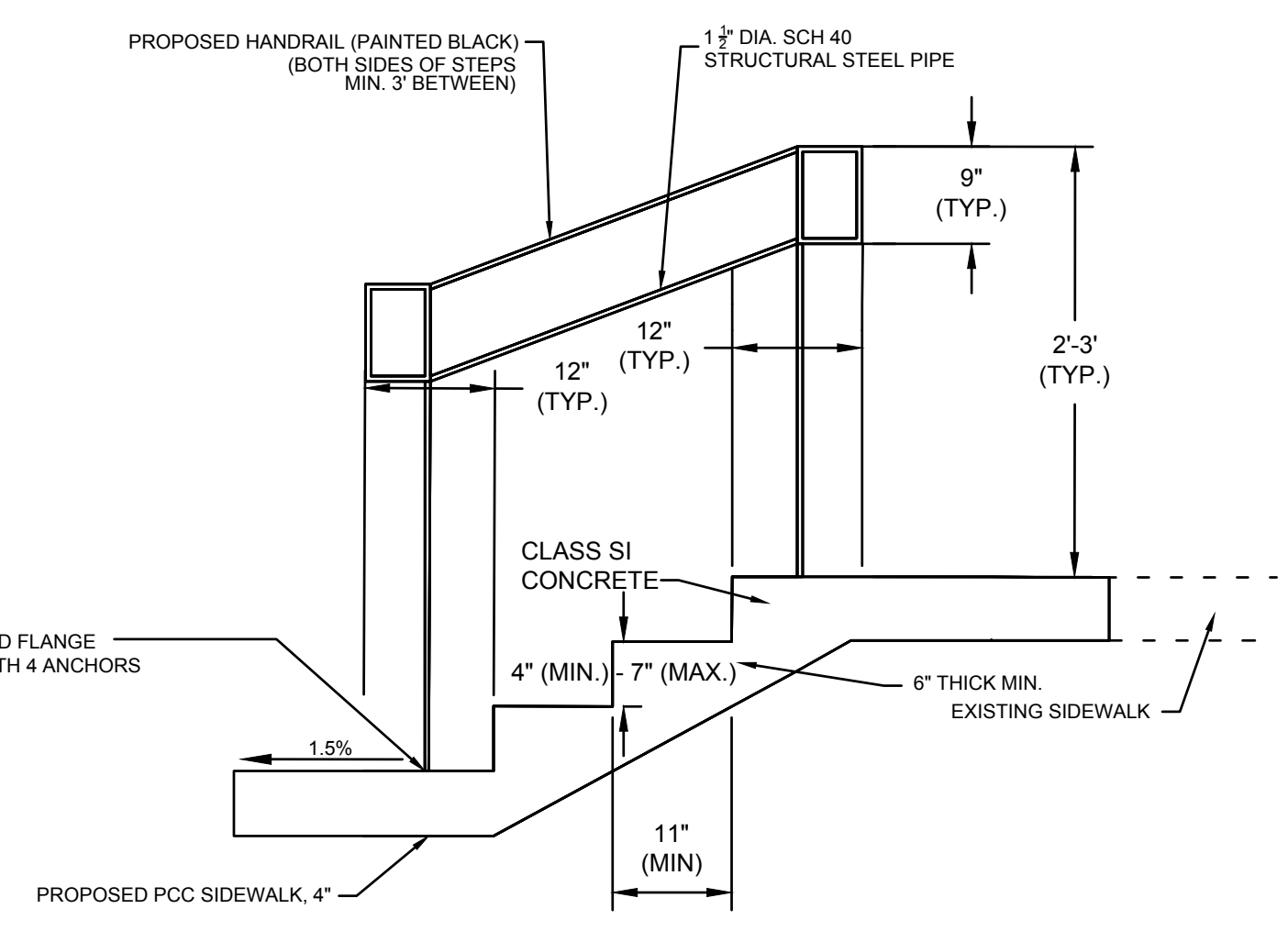
NOT TO SCALE

H:\Projects\2017\17-265 City of Columbia Bolm-Schuhkraft Connector Trail\20 Design\CADD\SHEETS\17-265_DETAILS.dwg
 Plotted on: 12/6/2019 10:07 AM
 Plotted by: Ian Gunn

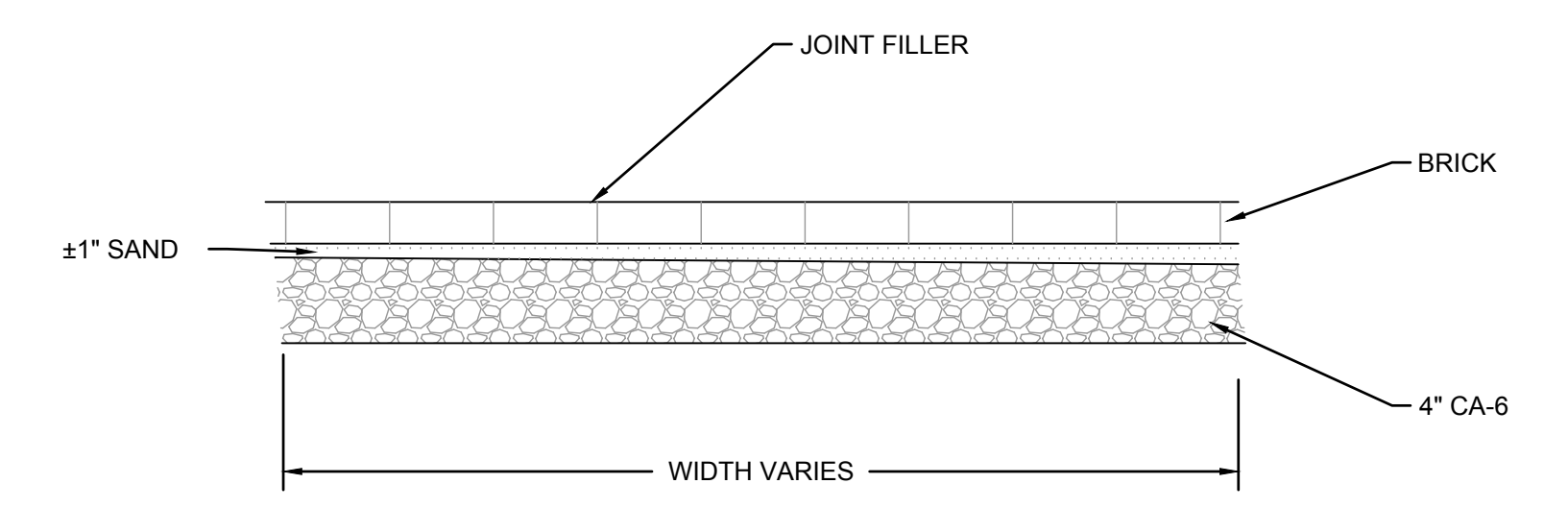
F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
MUN 1194	17-00054-00-BT	MONROE	46	28
FEDERAL AID PROJECT		CONTRACT 97701		



SIGN PLACEMENT DETAIL
N.T.S.

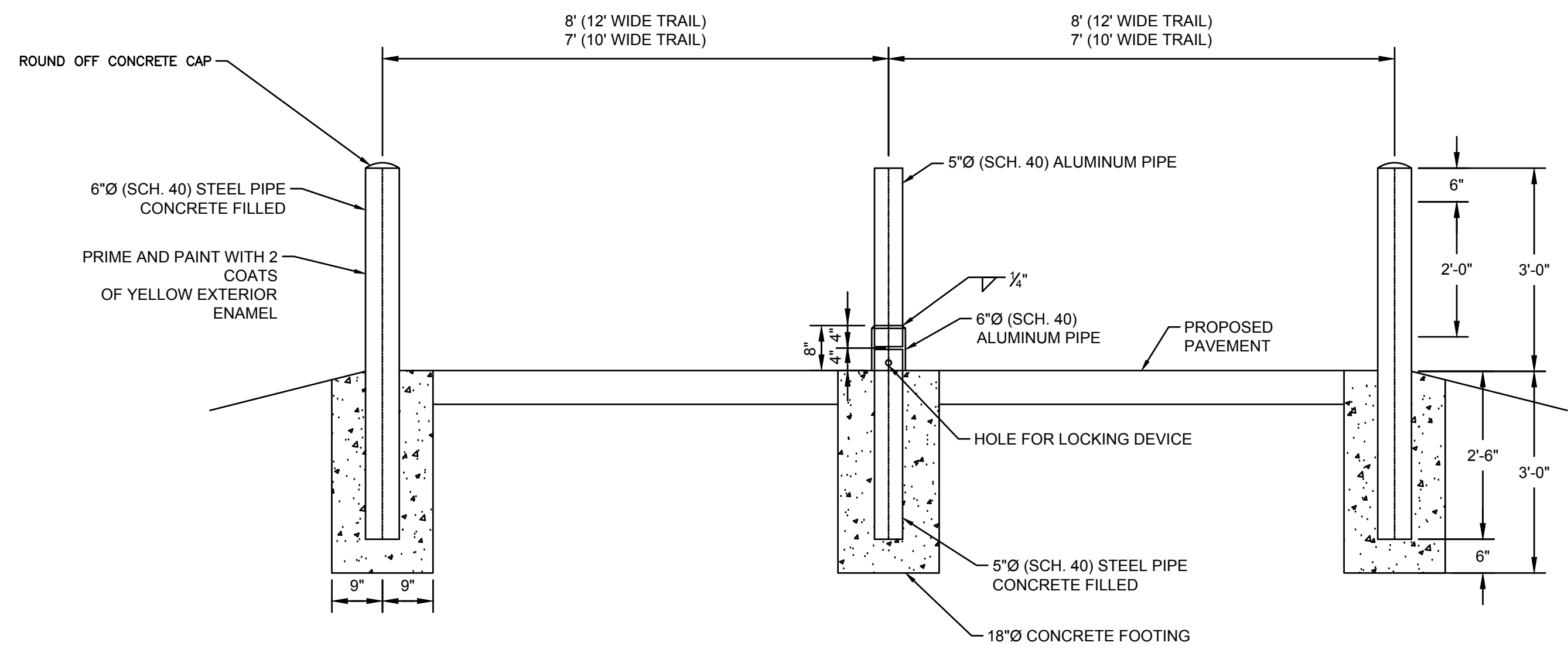


CONCRETE STEP W/PIPE HANDRAILS
N.T.S.

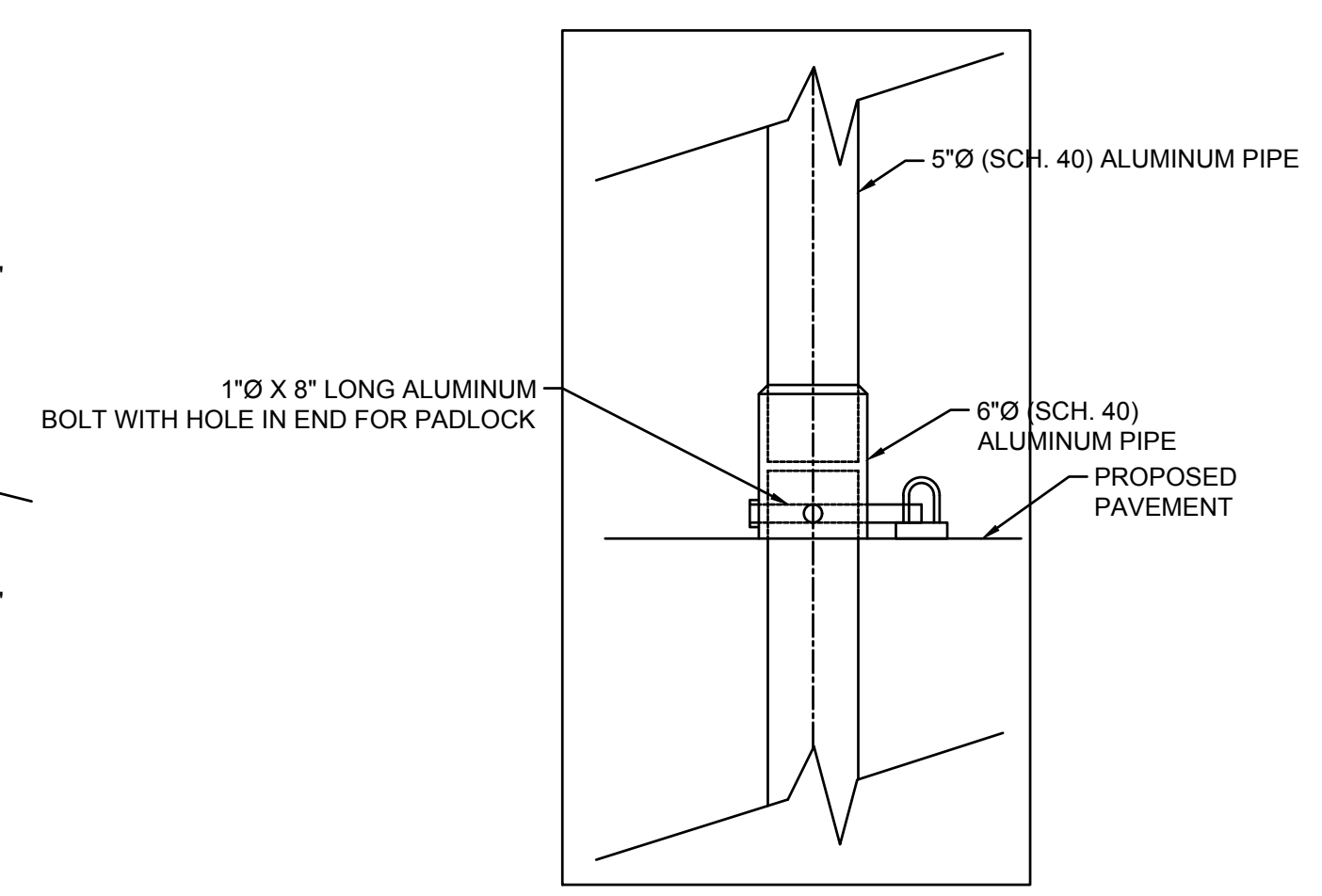


PAVING BRICK SIDEWALK
NOT TO SCALE

NOTE: ALL MATERIALS SHOWN SHALL BE INCLUDED IN THE COST PER SQUARE YARD "PAVING BRICK SIDEWALK".

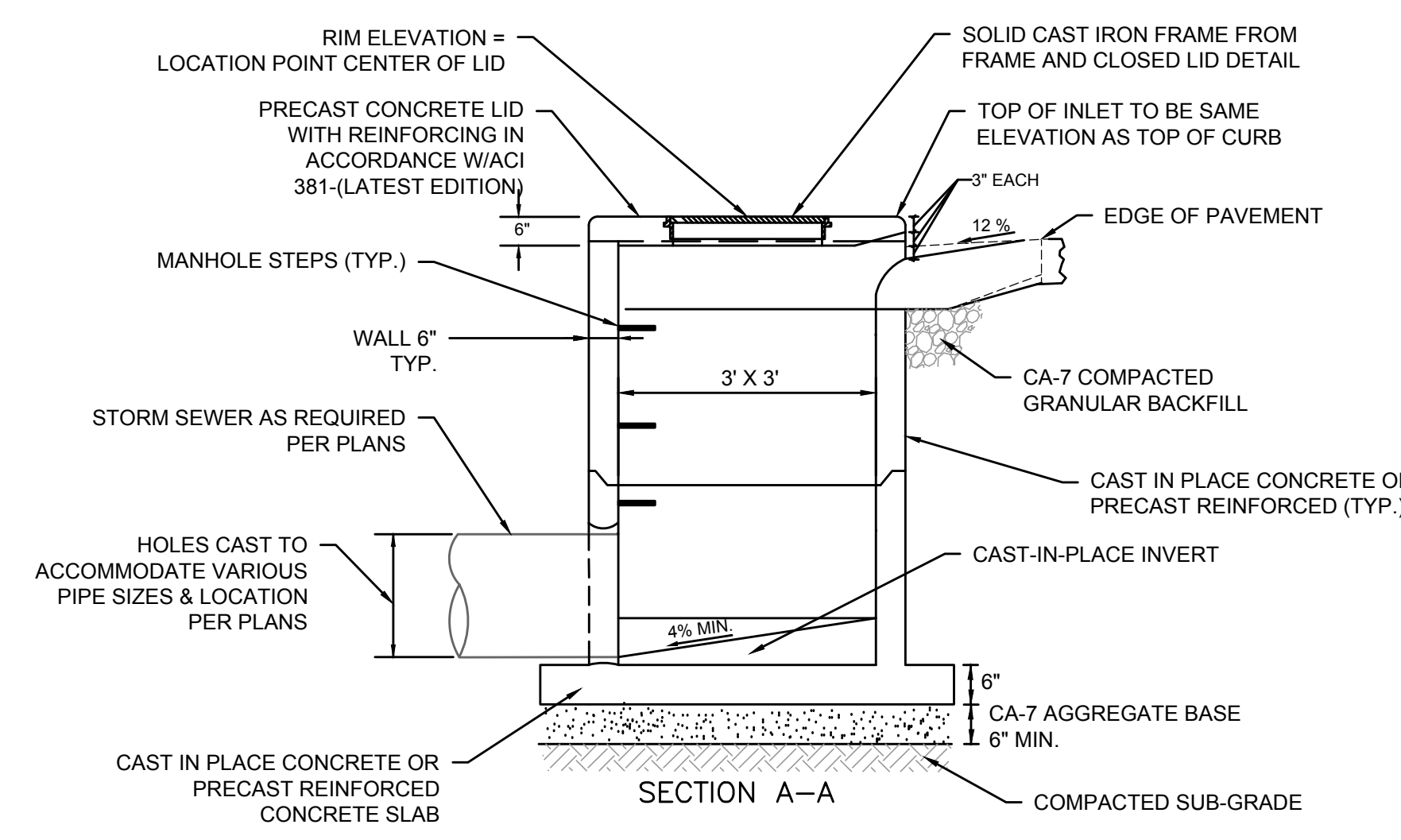
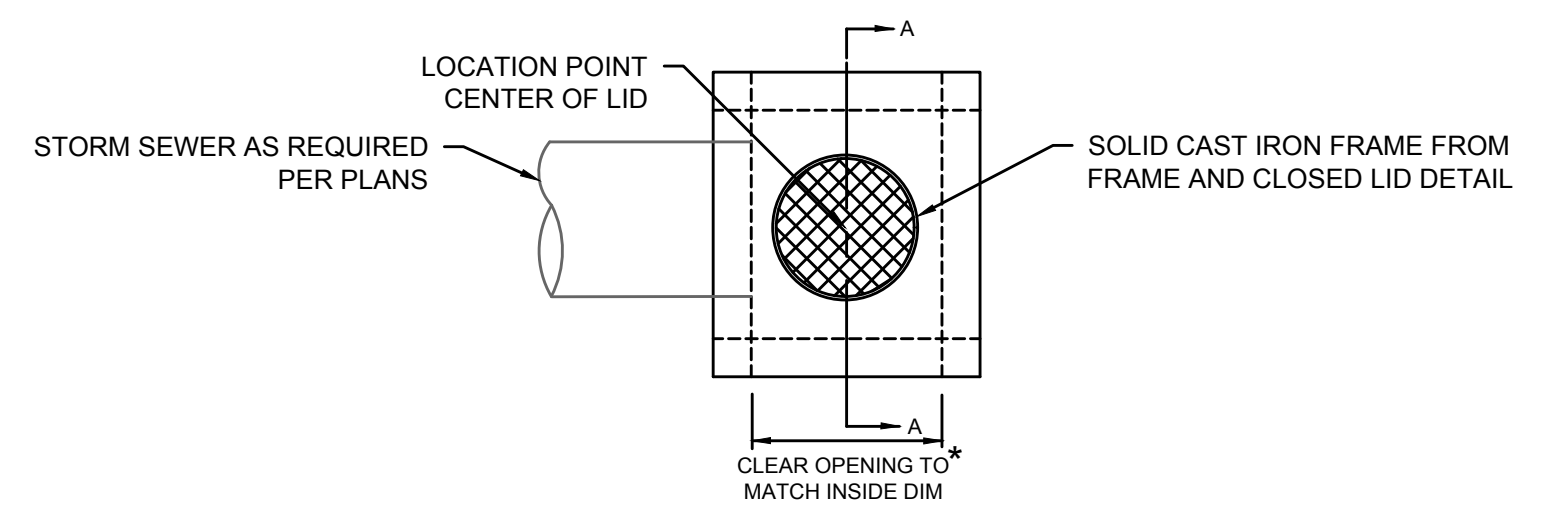
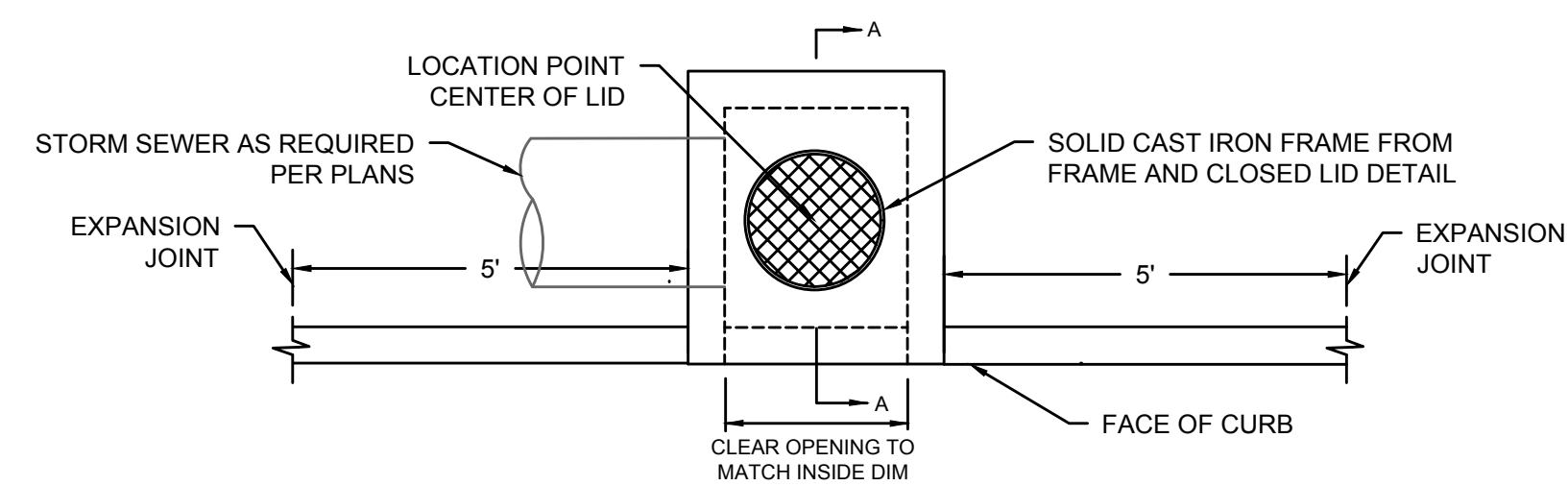


BOLLARD DETAIL
N.T.S.

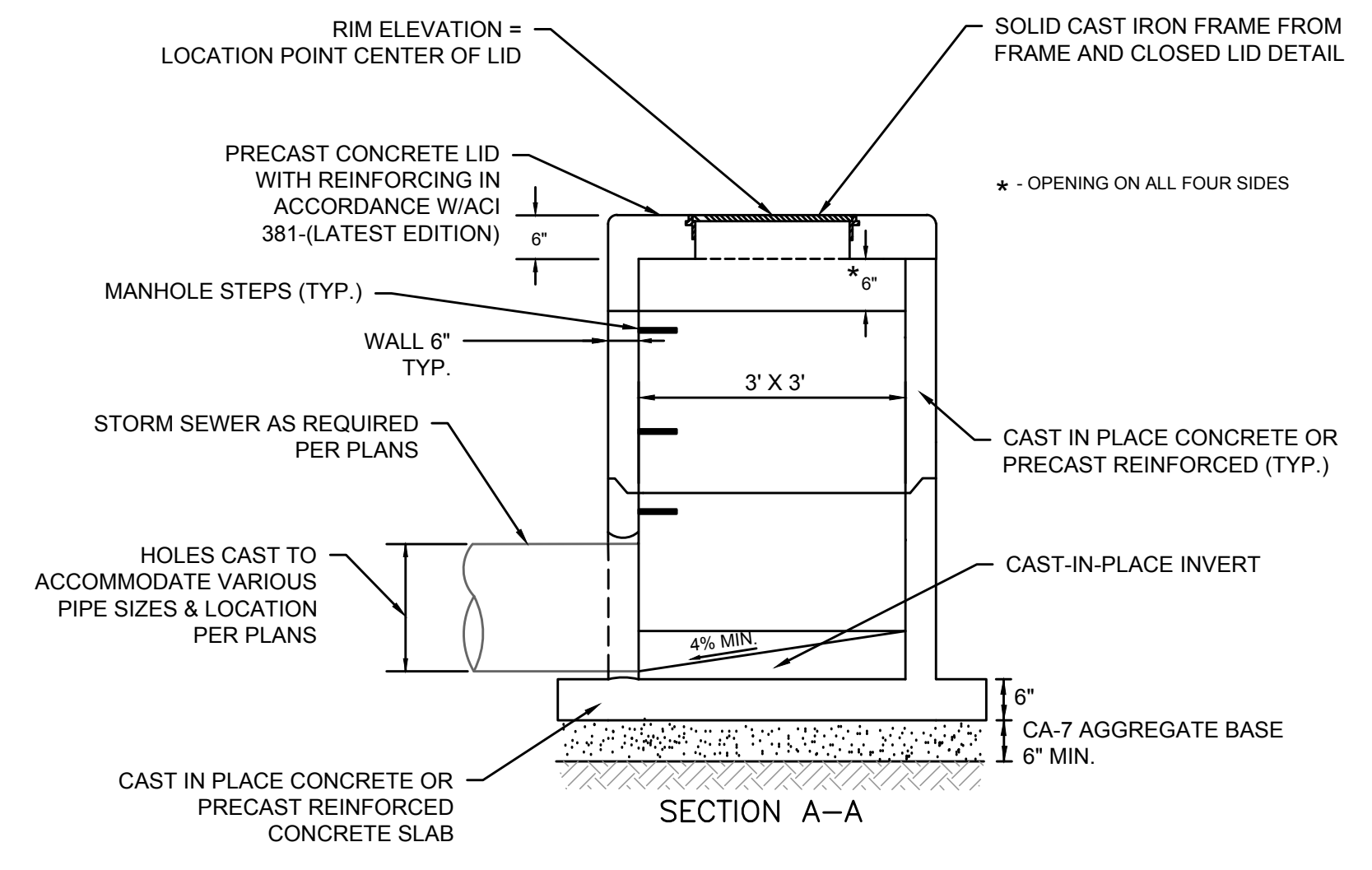


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 Plotted on: 12/6/2019 10:07 AM
 Plotted By: Ian Gunn

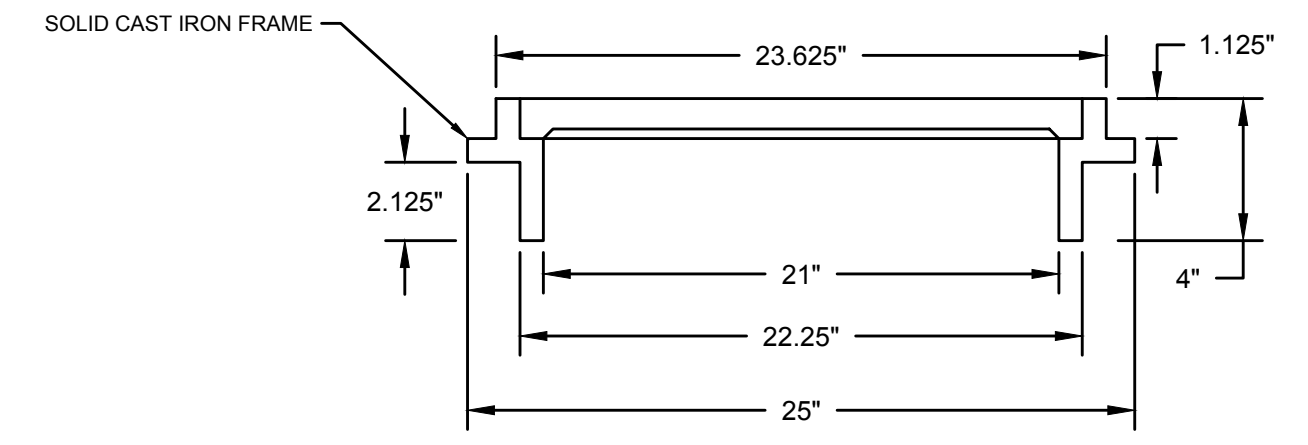
F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
MUN 1194	17-00054-00-BT	MONROE	46	29
FEDERAL AID PROJECT		CONTRACT 97701		



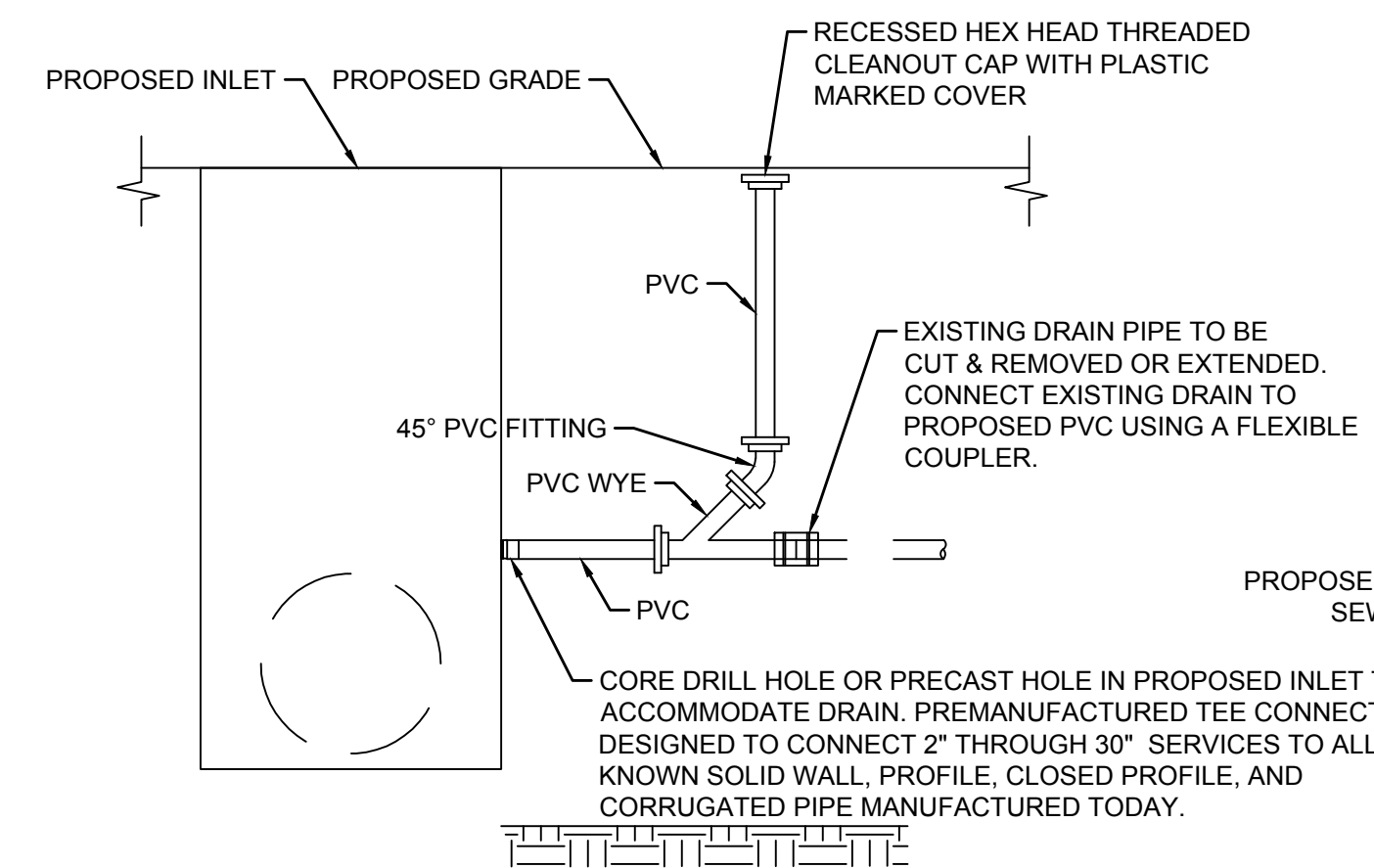
INLET SPECIAL, NO. 1 (CURB INLET)
NOT TO SCALE



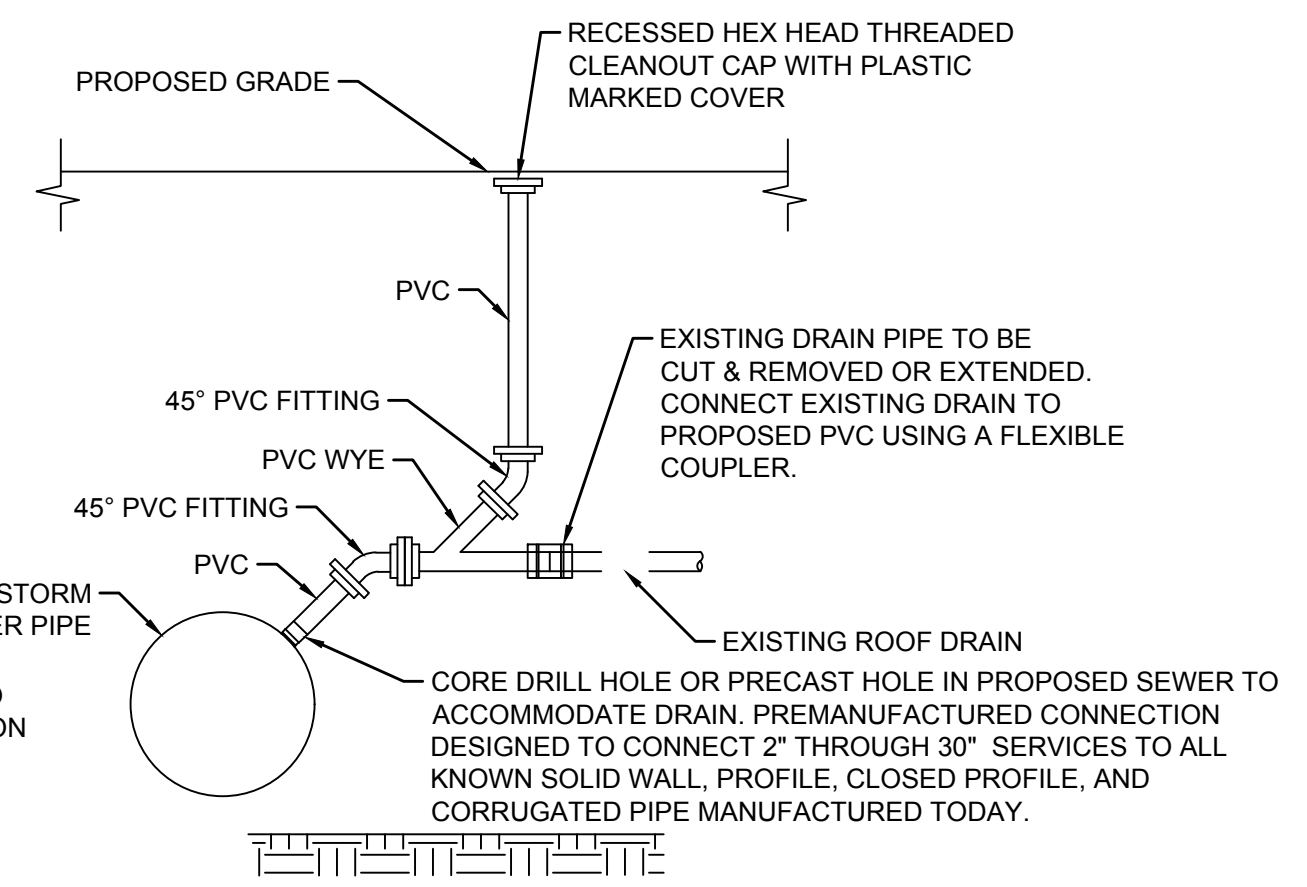
INLET SPECIAL, NO. 1 (AREA INLET)
NOT TO SCALE



FRAME AND CLOSED LID



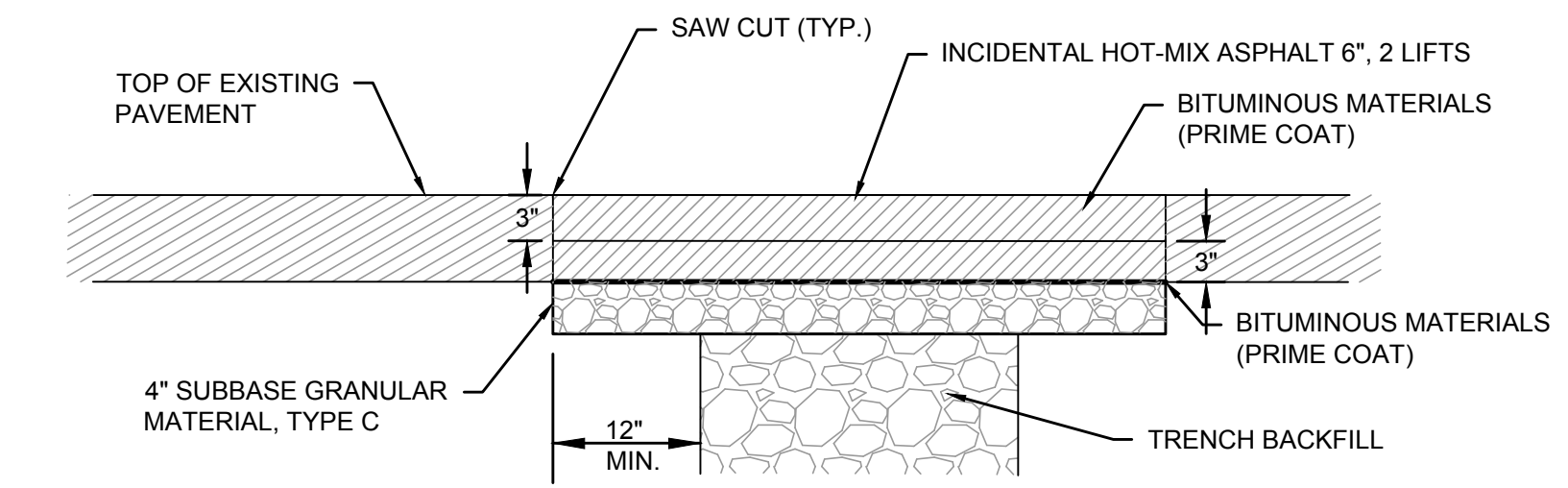
CONNECTION TO INLETS



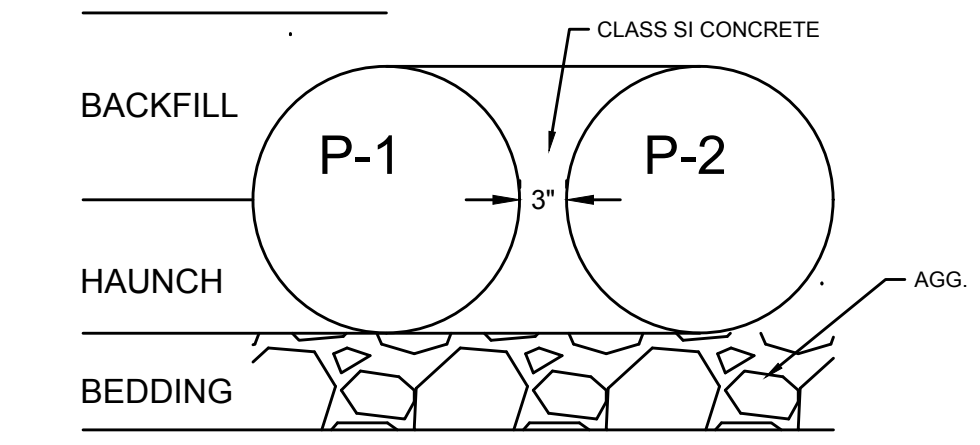
CONNECTION TO STORM SEWER PIPE

STORM SEWER CONNECTION
NOT TO SCALE

NOTE: ALL ITEMS REQUIRED TO COMPLETE THE CONNECTION OF THE EXISTING DRAINS SHALL BE INCLUDED IN PRICE OF STORM SEWER CONNECTION. SIZES SHALL MATCH THE EXISTING DIAMETERS WITH A MINIMUM DIAMETER OF 4\"/>



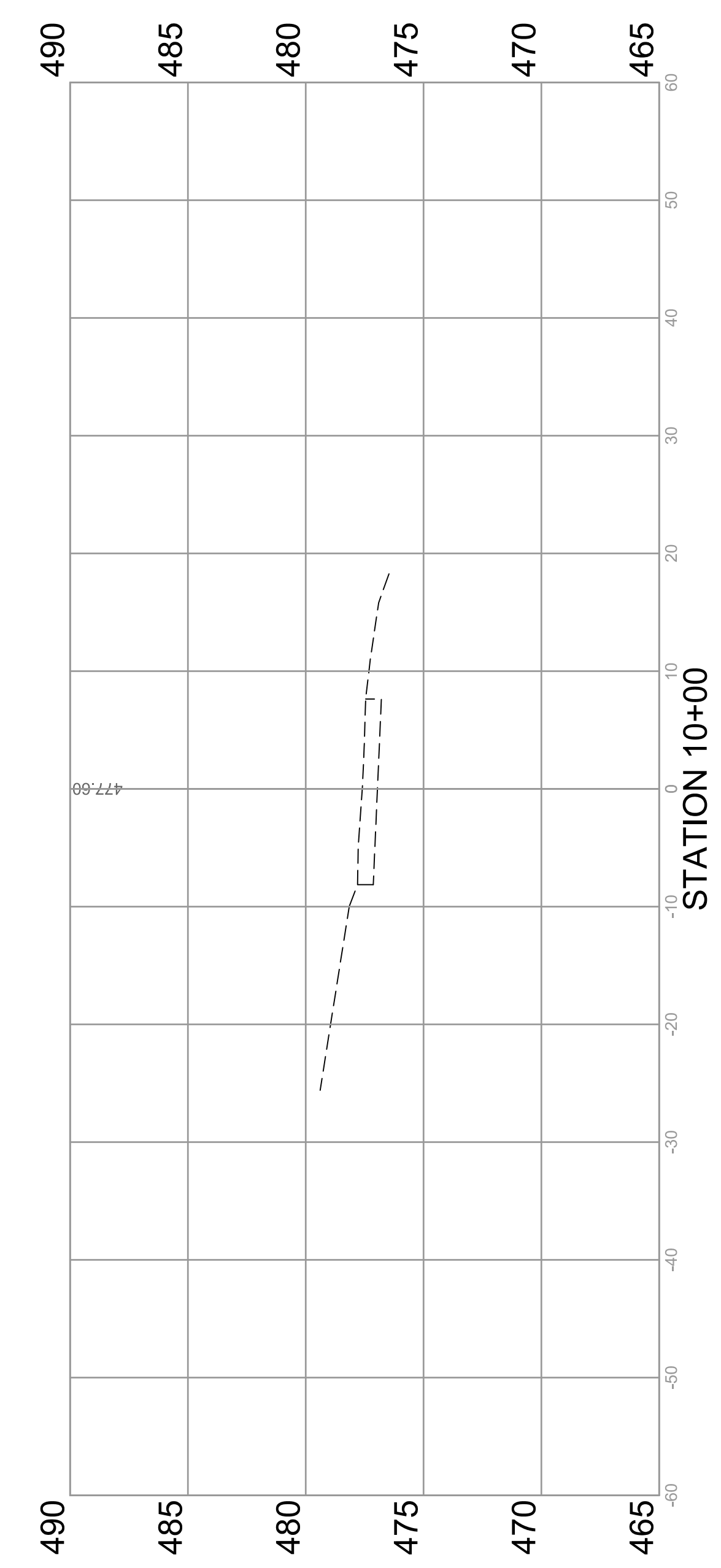
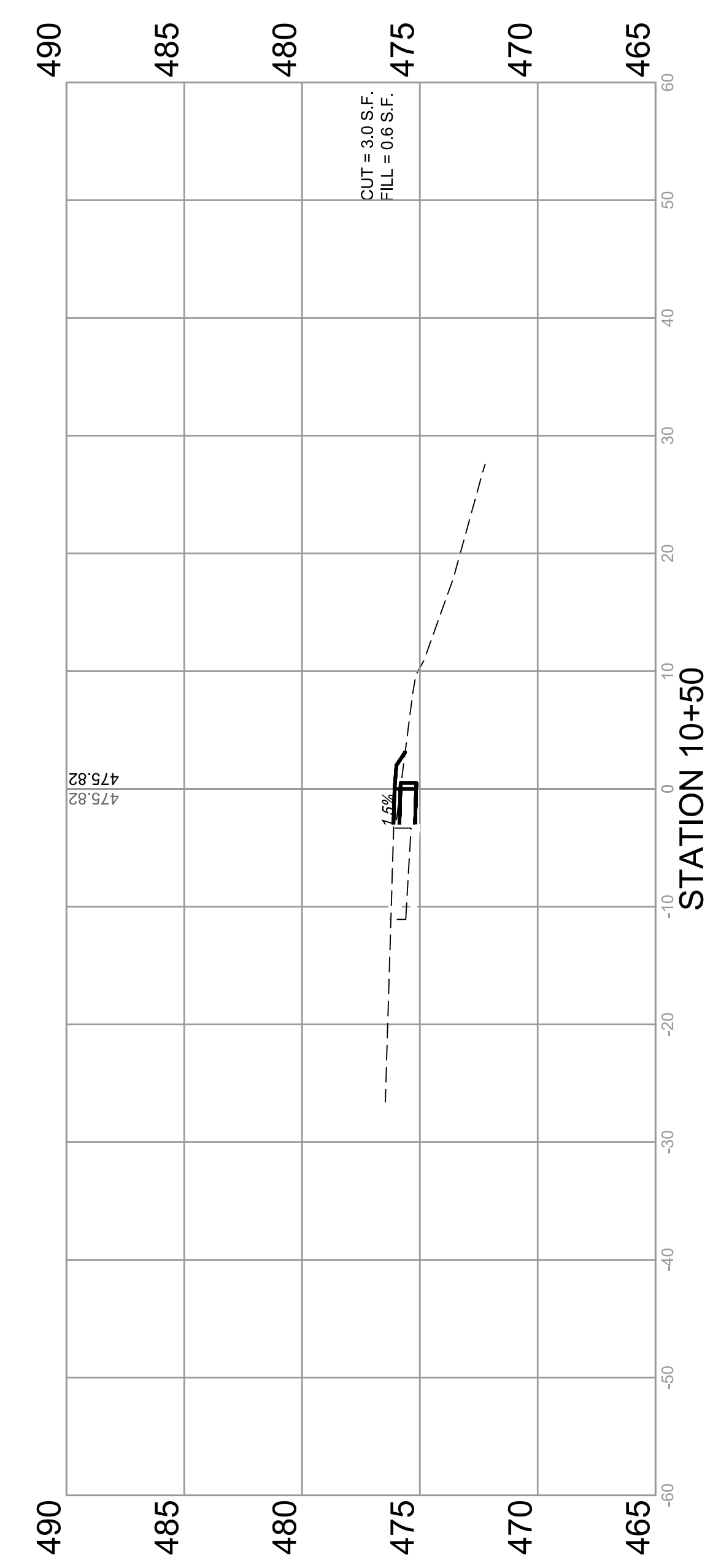
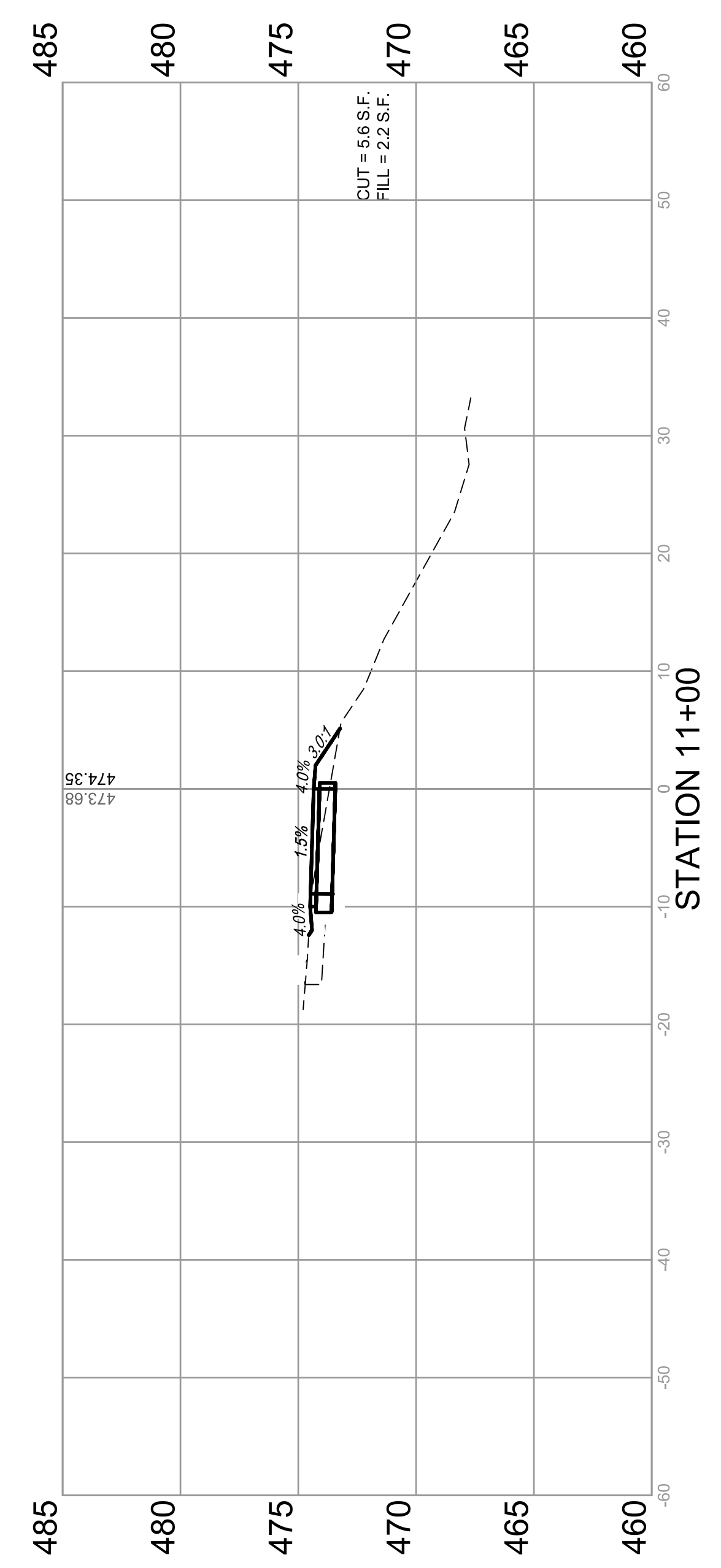
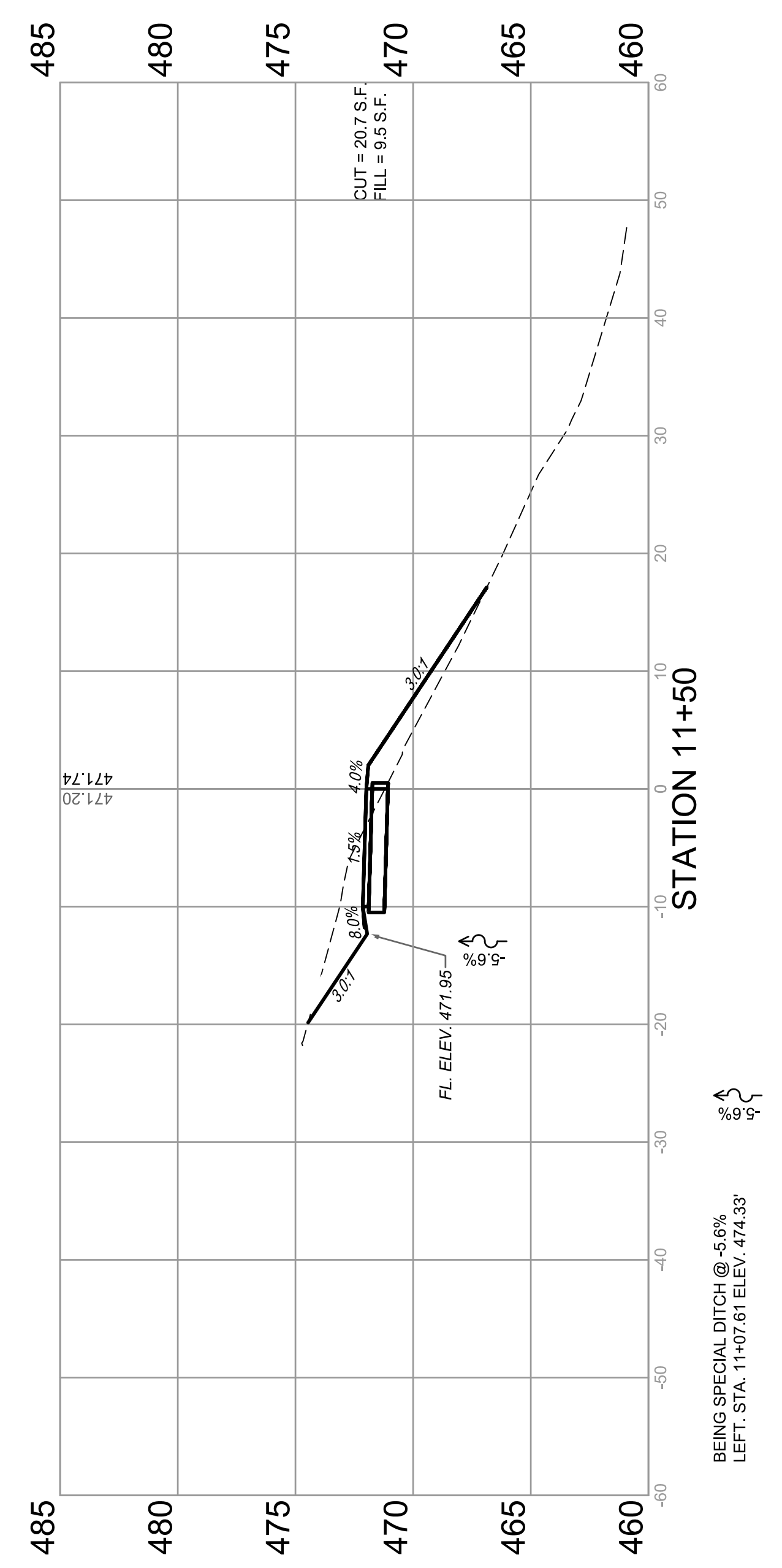
PAVEMENT REPAIR DETAIL
N.T.S.



DUAL CULVERT DETAIL
N.T.S.

M:\Projects\2017\17-265 City of Columbia Bolm-Schuhkraft Connector Trail\20 Design\CADD\SHEETS\17-265_DETAILS.dwg
 Plotted on: 12/18/2019 9:03 AM
 Plotted By: Ian Gunn

F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
MUN 1194	17-00054-00-BT	MONROE	46	30
STA. 10+00		TO STA. 11+50		
FEDERAL AID PROJECT			CONTRACT 97701	

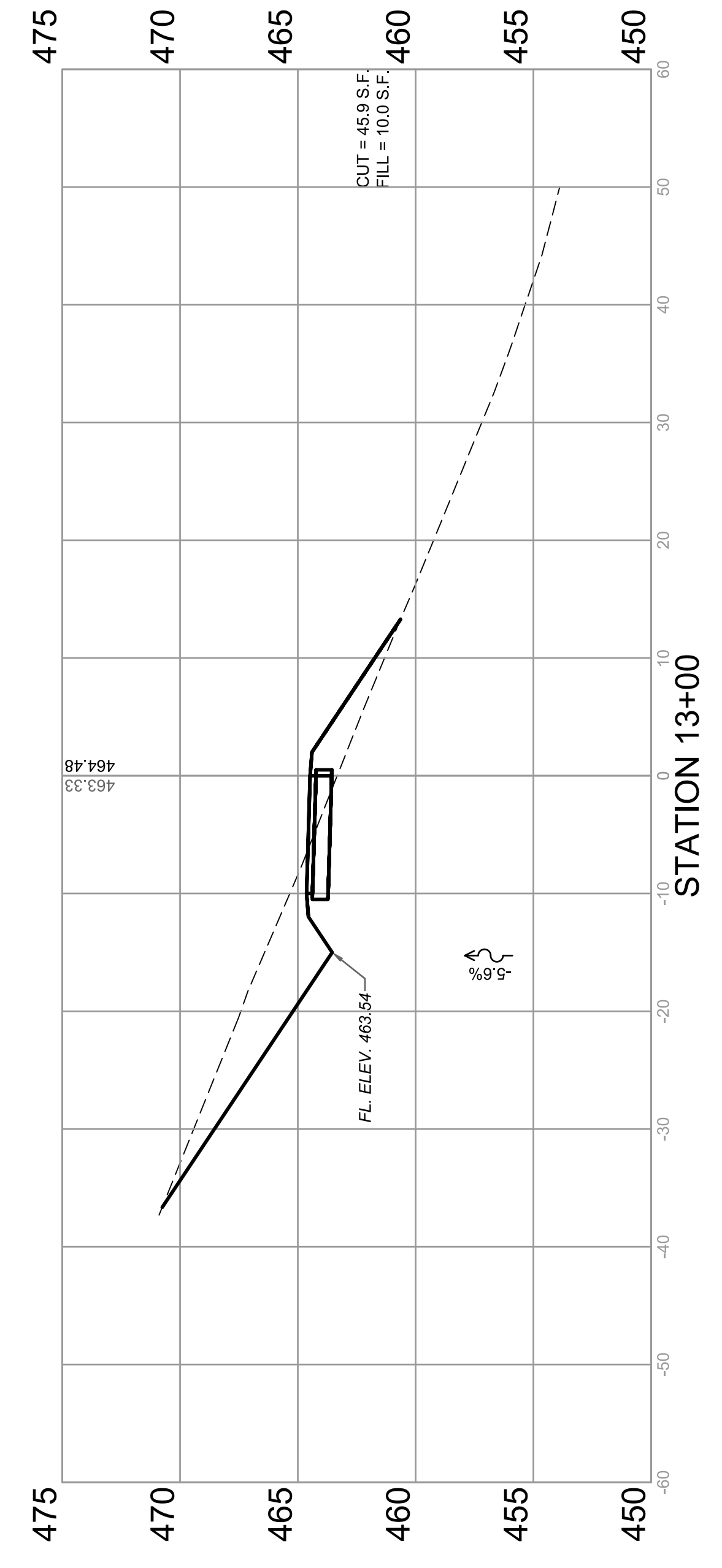
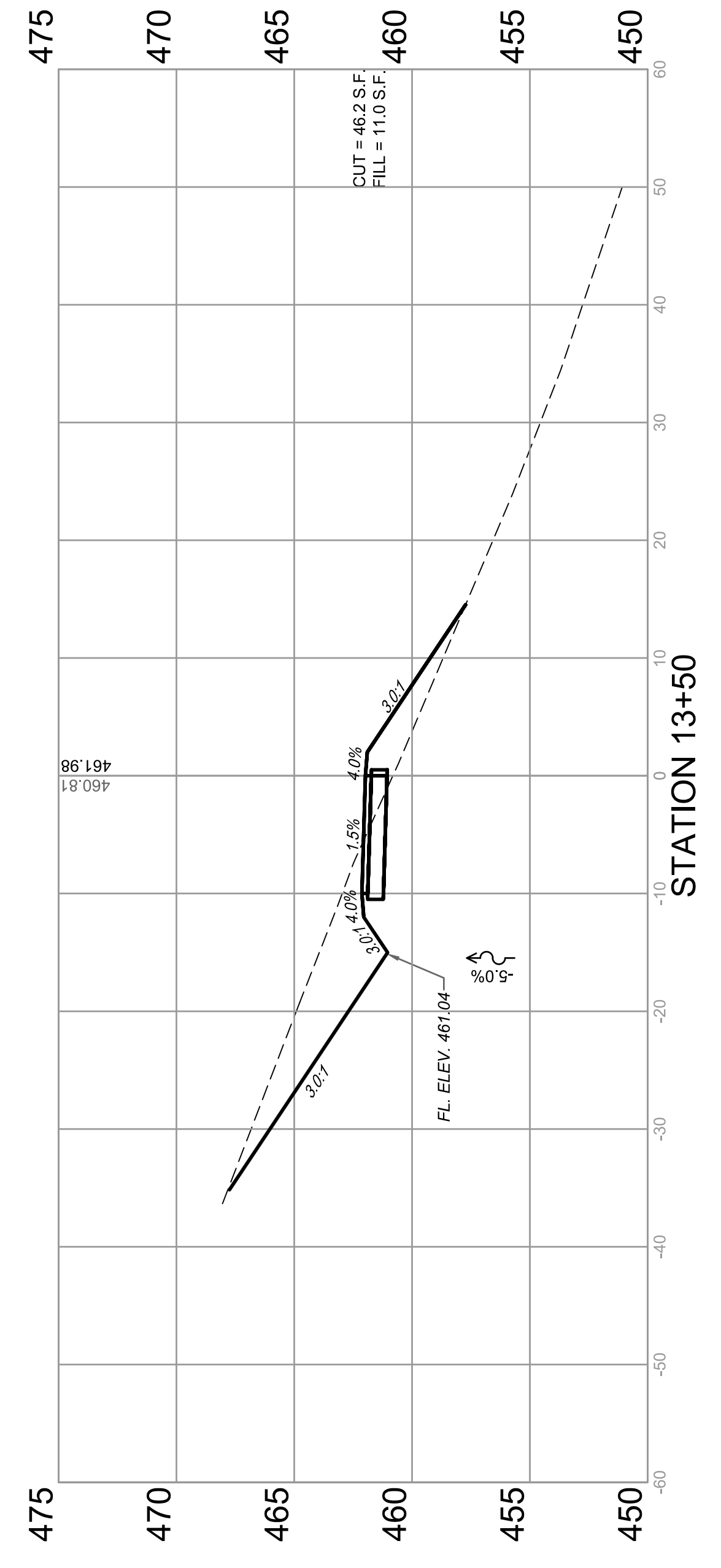


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 Date: 11/19/19 10:07 AM
 Plotted By: Ian Gunn

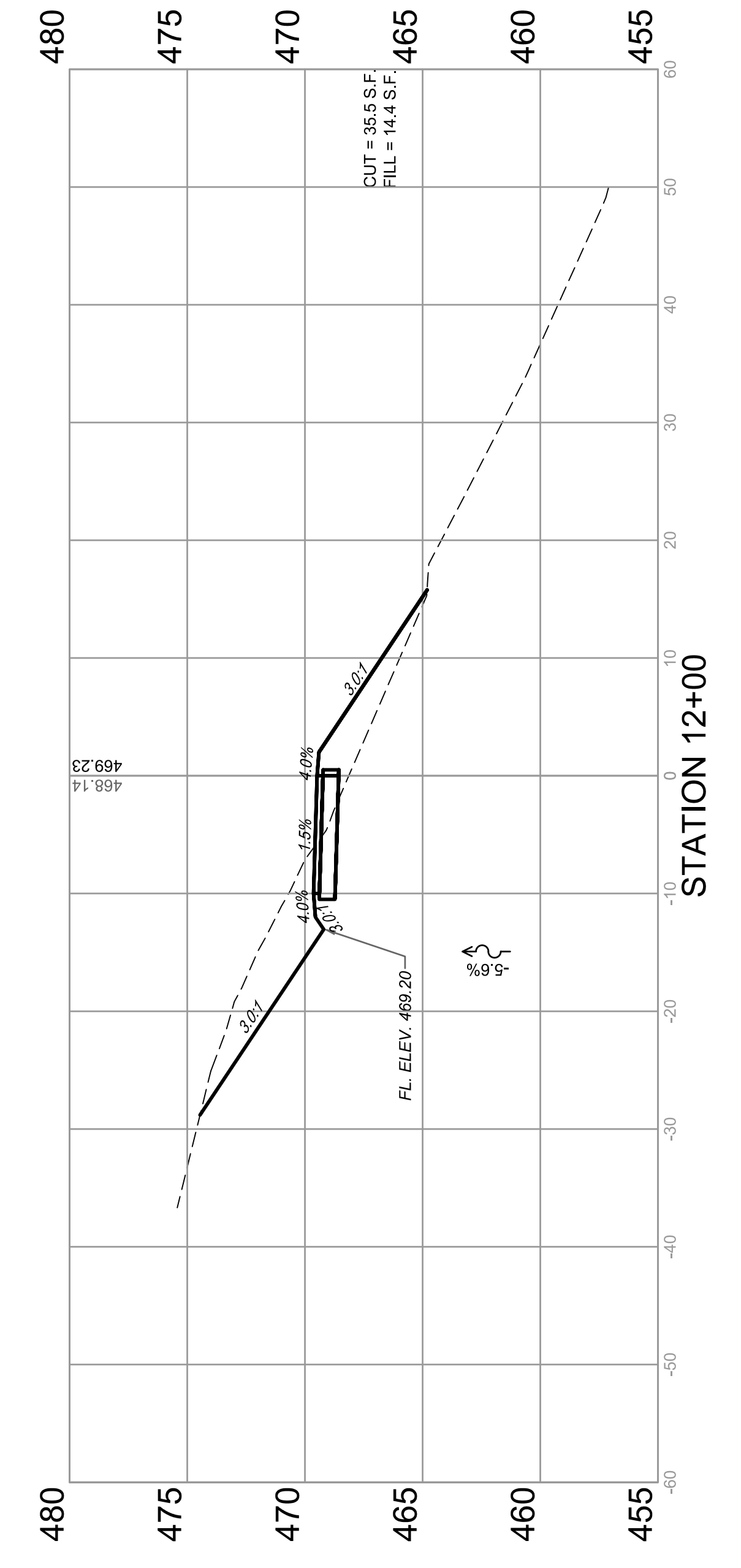
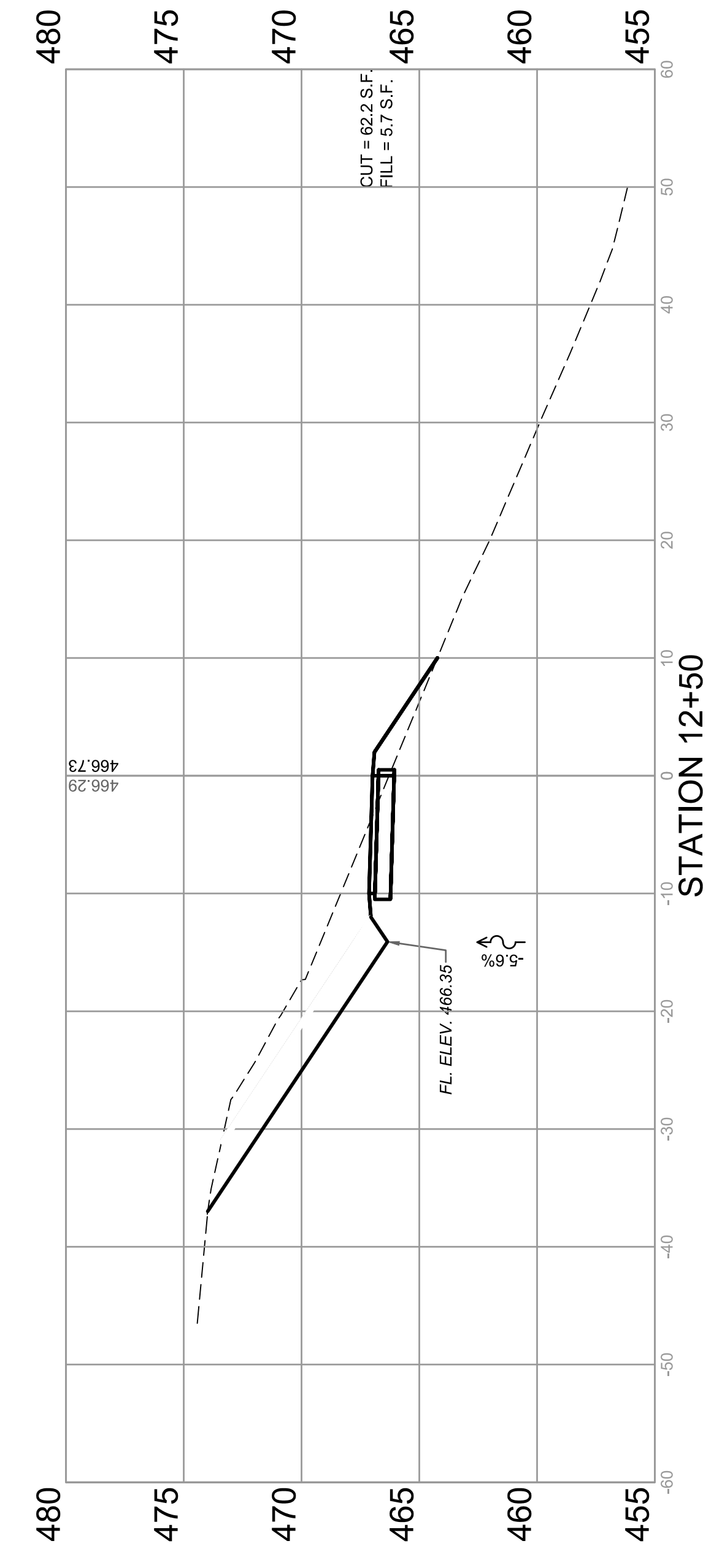
CROSS SECTIONS
 SECTION 17-00054-00-BT

BOLM - SCHUHKRAFT CONNECTOR TRAIL
 COLUMBIA, ILLINOIS

F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
MUN 1194	17-00054-00-BT	MONROE	46	31
STA. 12+00		TO STA. 13+50		
FEDERAL AID PROJECT			CONTRACT 97701	

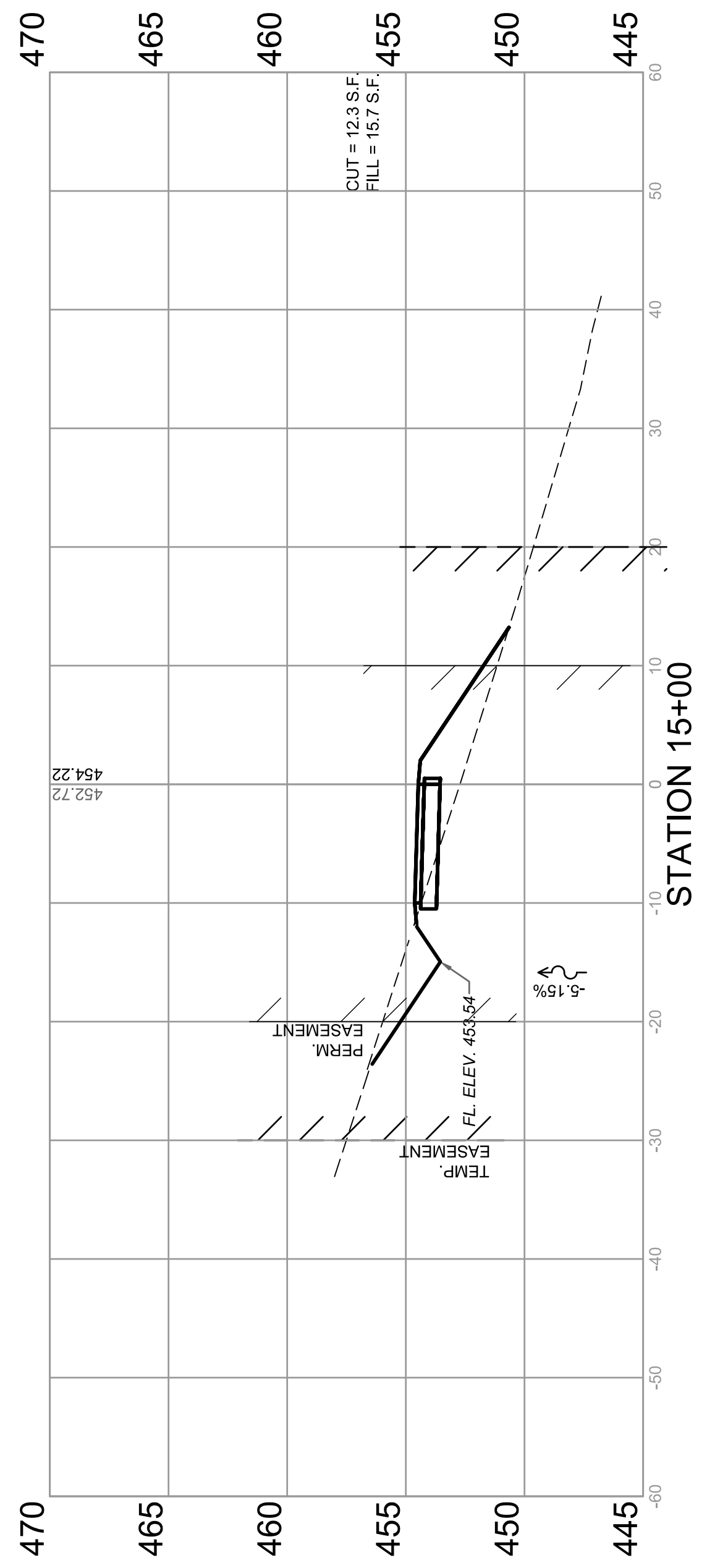
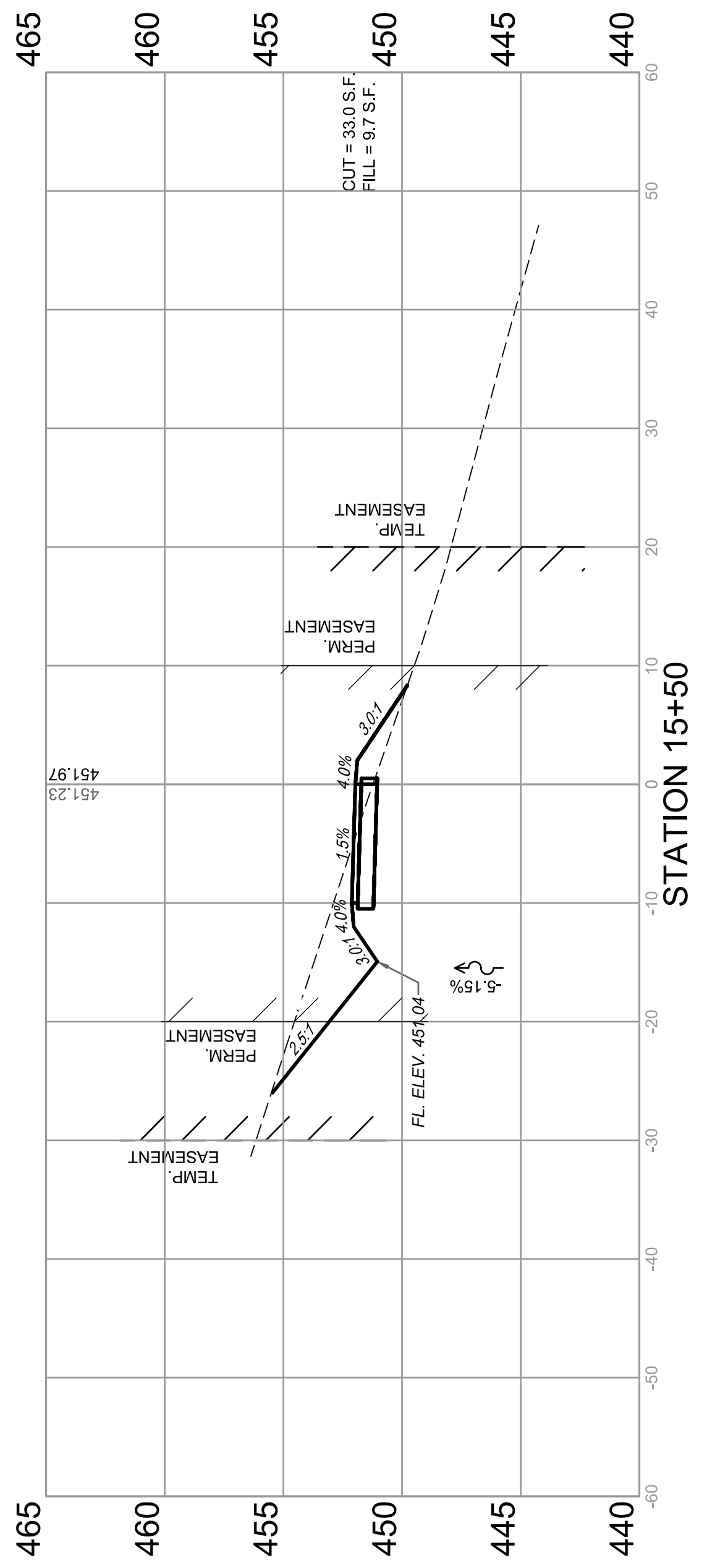


END SPECIAL DITCH @ -5.6%
LEFT: STA. 13+00 ELEV. 463.54'

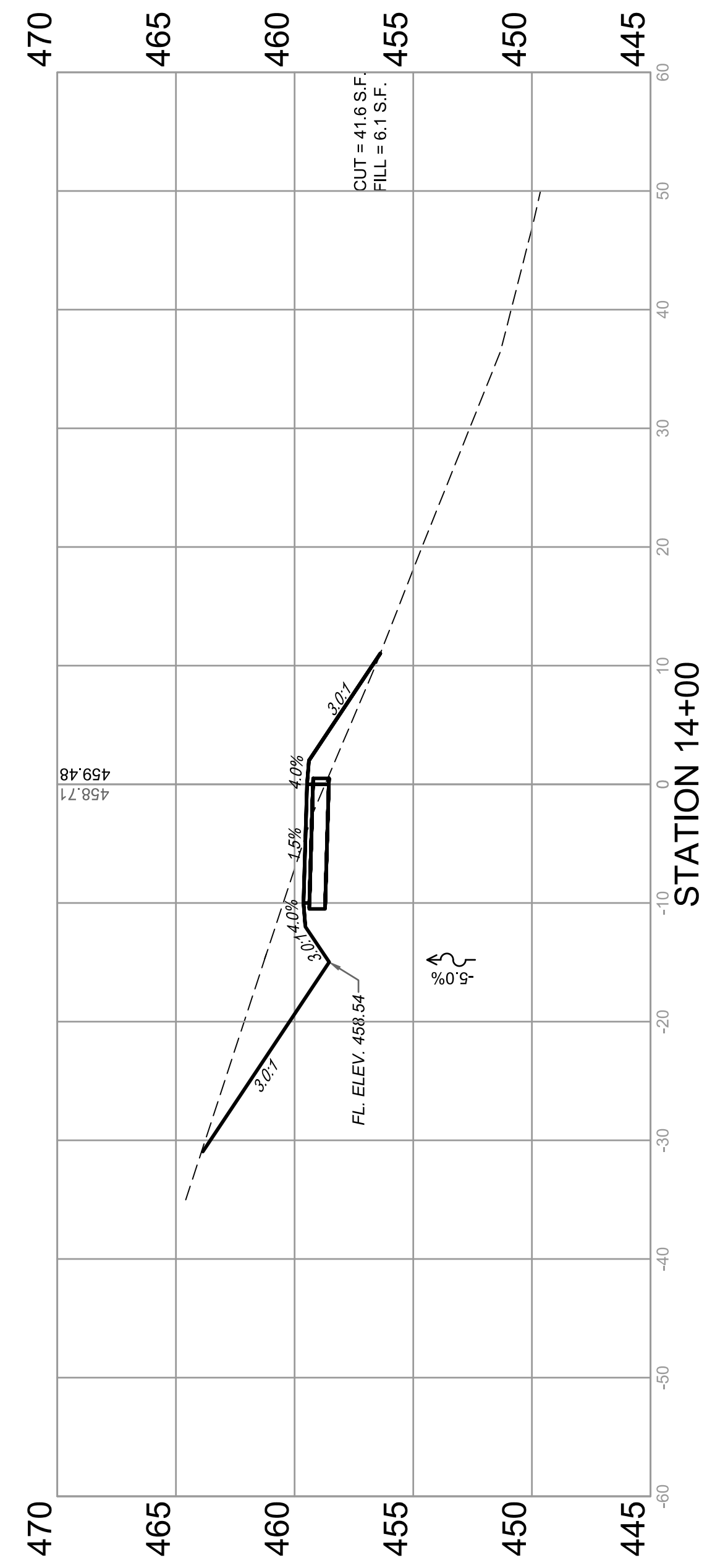
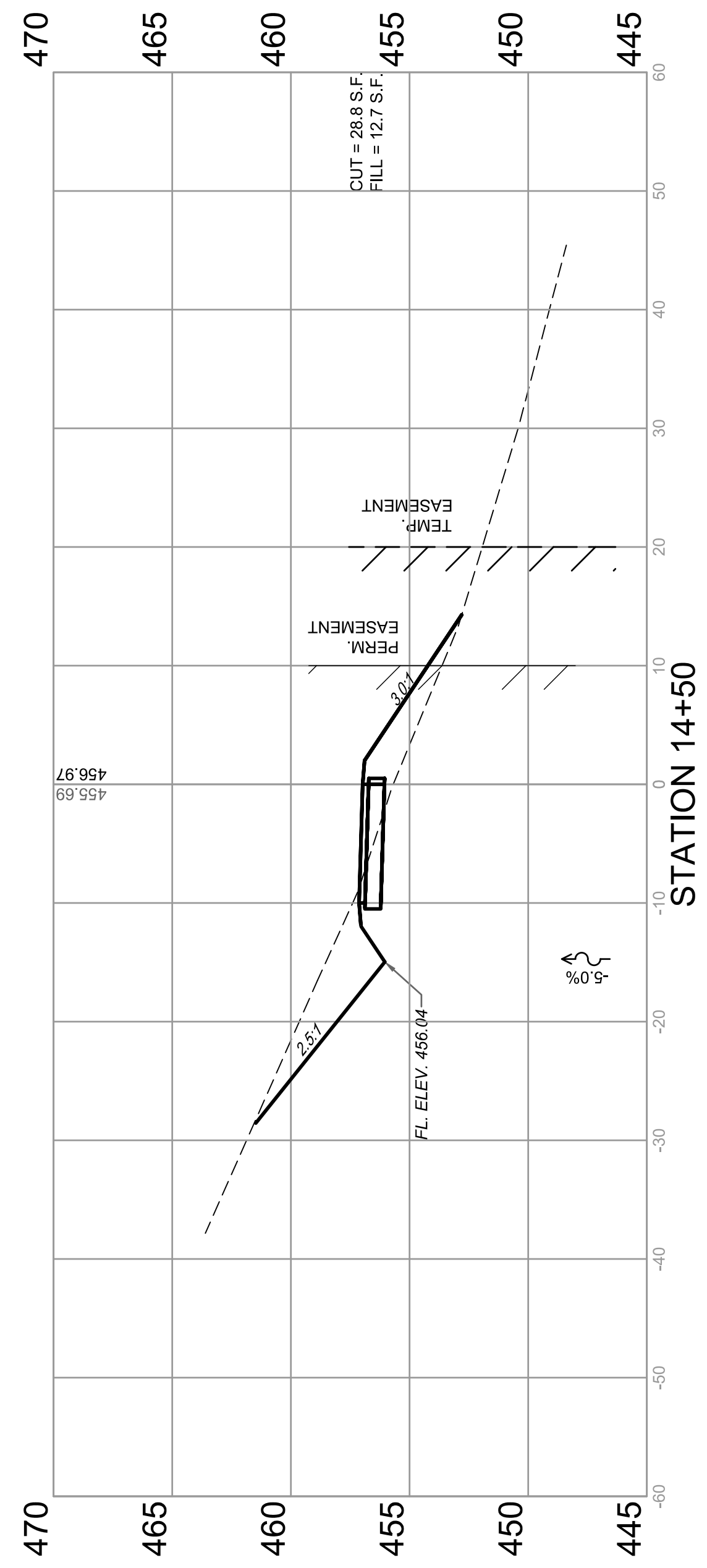


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Plotted By: Ian Gunn

F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
MUN 1194	17-00054-00-BT	MONROE	46	32
STA. 14+00	TO STA. 15+50			
FEDERAL AID PROJECT		CONTRACT 97701		



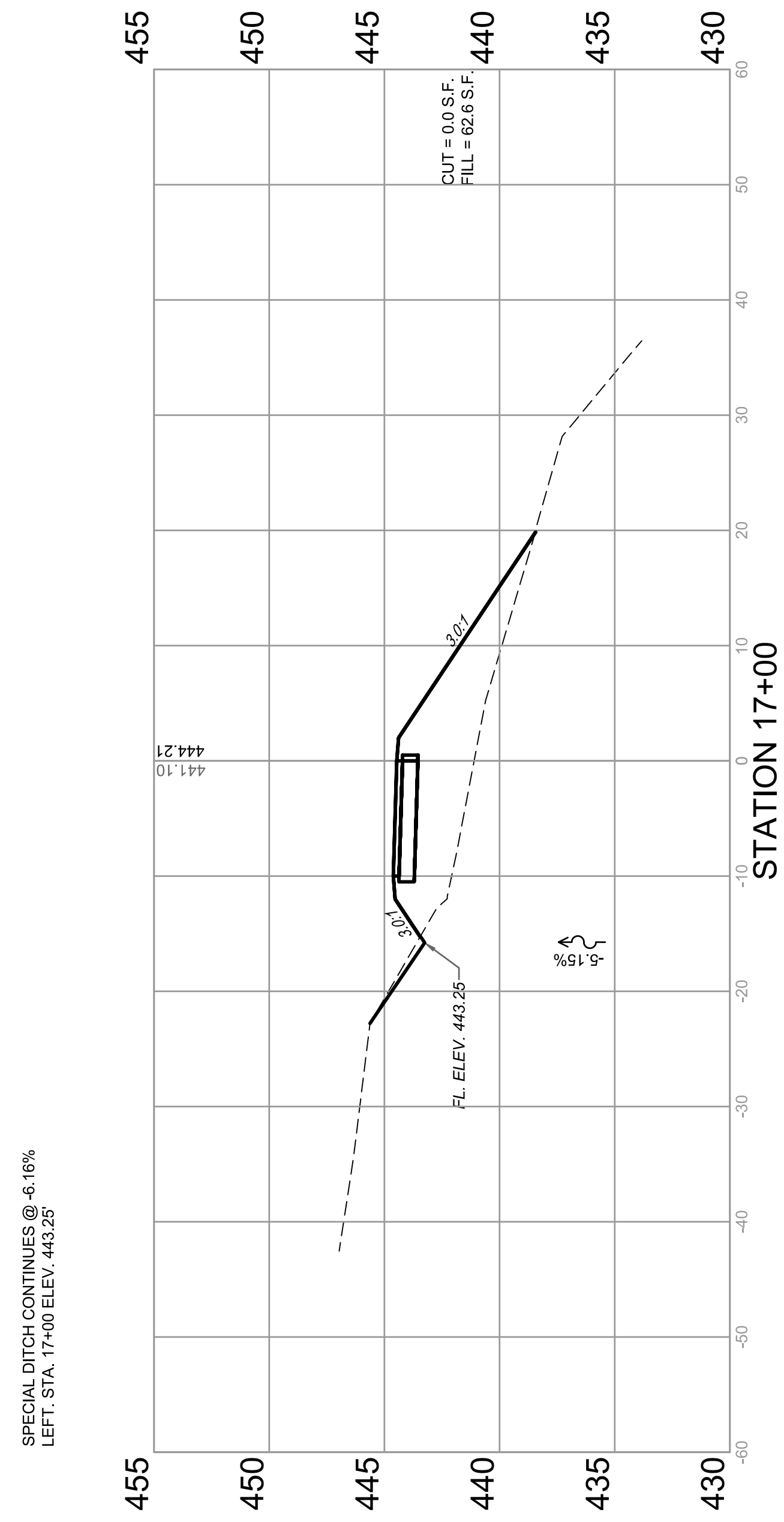
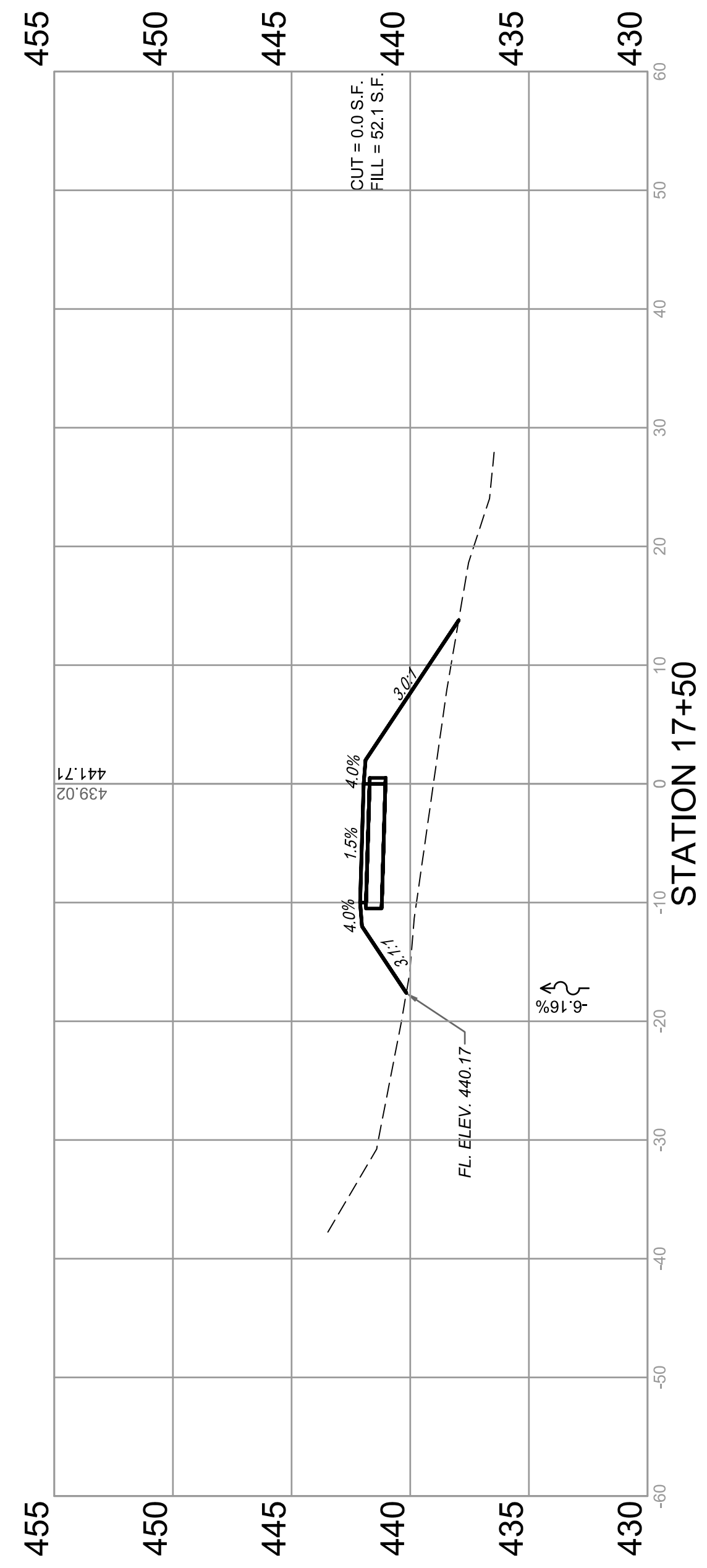
BEGIN SPECIAL DITCH @ -5.15%
LEFT: STA. 15+00 ELEV. 453.54'



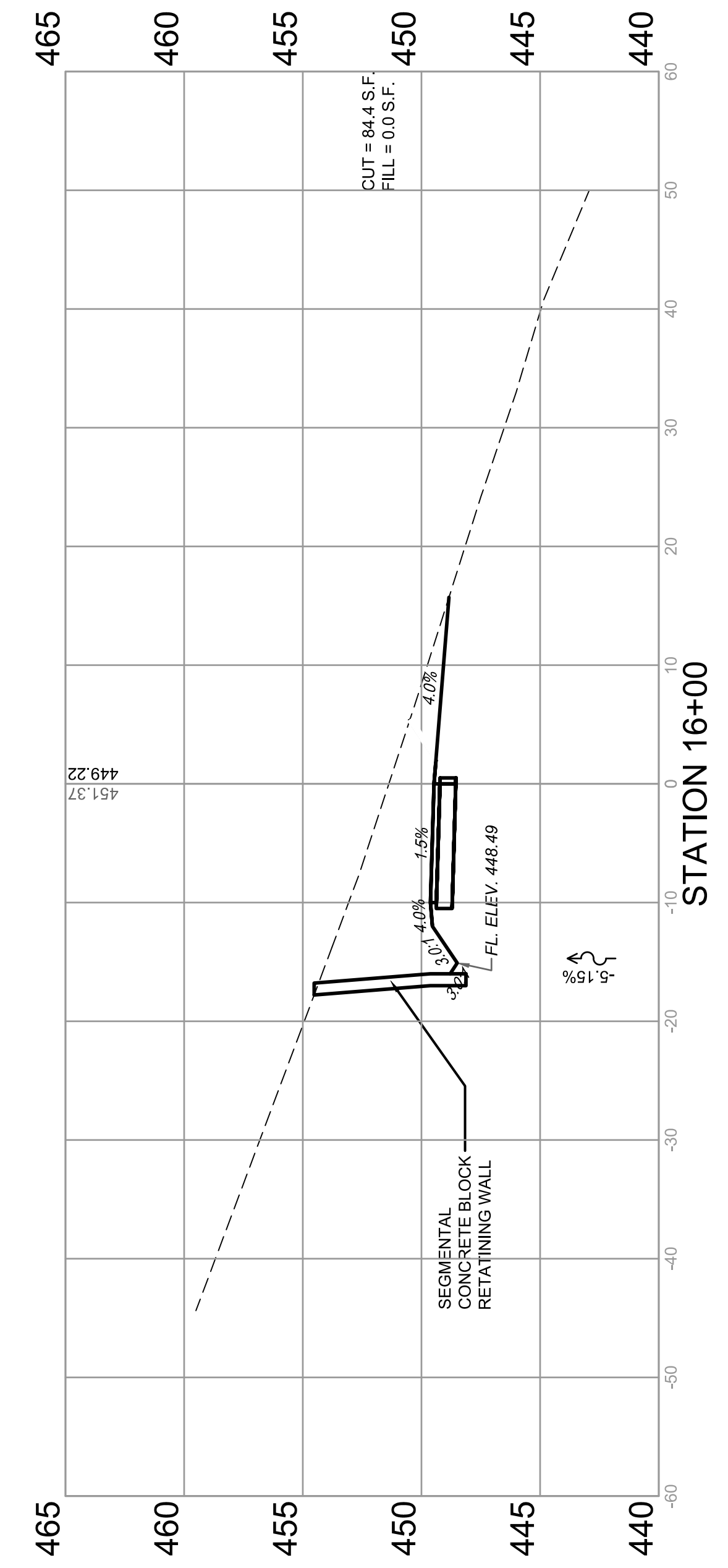
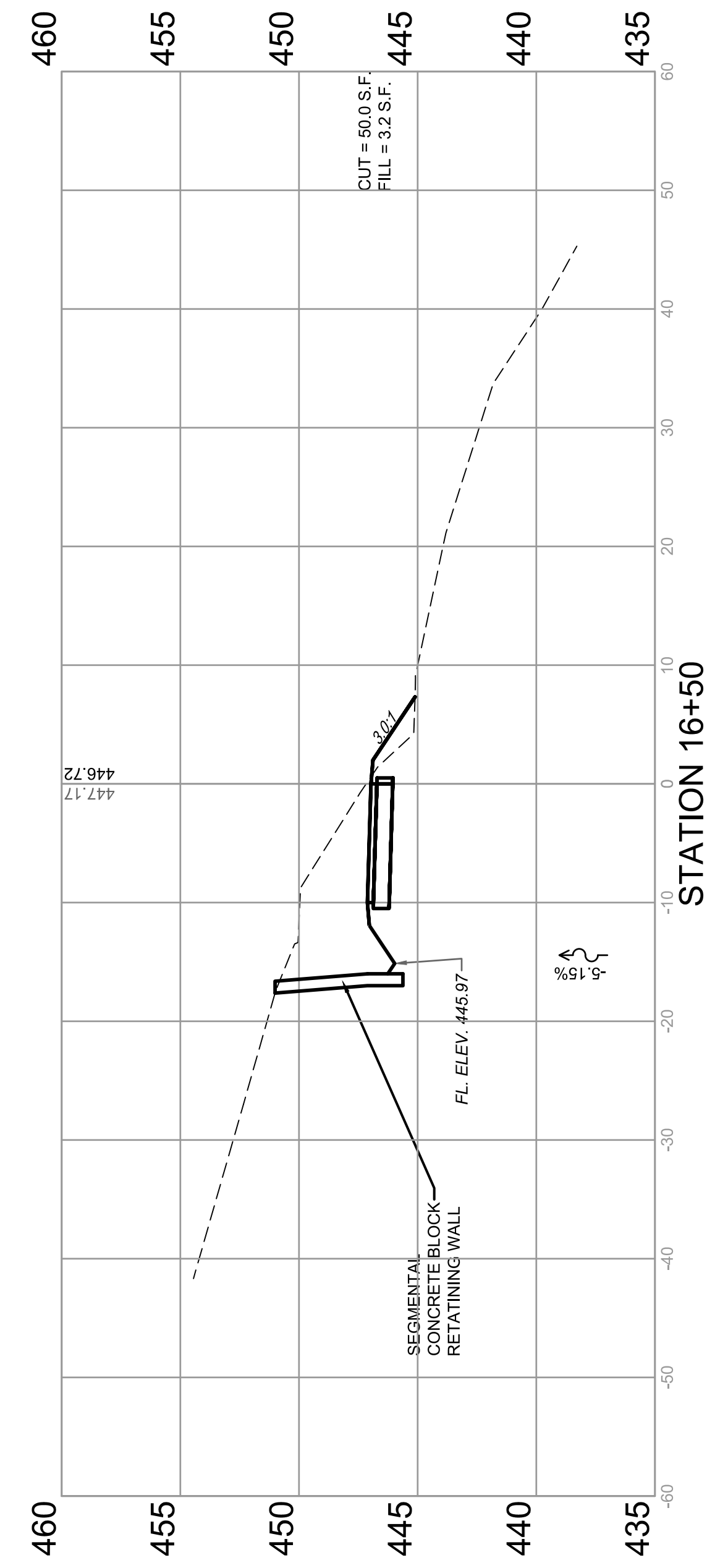
CROSS SECTIONS
SECTION 17-00054-00-BT

BOLM - SCHUHKRAFT CONNECTOR TRAIL
COLUMBIA, ILLINOIS

F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
MUN 1194	17-00054-00-BT	MONROE	46	33
STA. 16+00		TO STA.	17+50	
FEDERAL AID PROJECT			CONTRACT 97701	



SPECIAL DITCH CONTINUES @ -6.16%
LEFT, STA. 17+00 ELEV. 443.25'

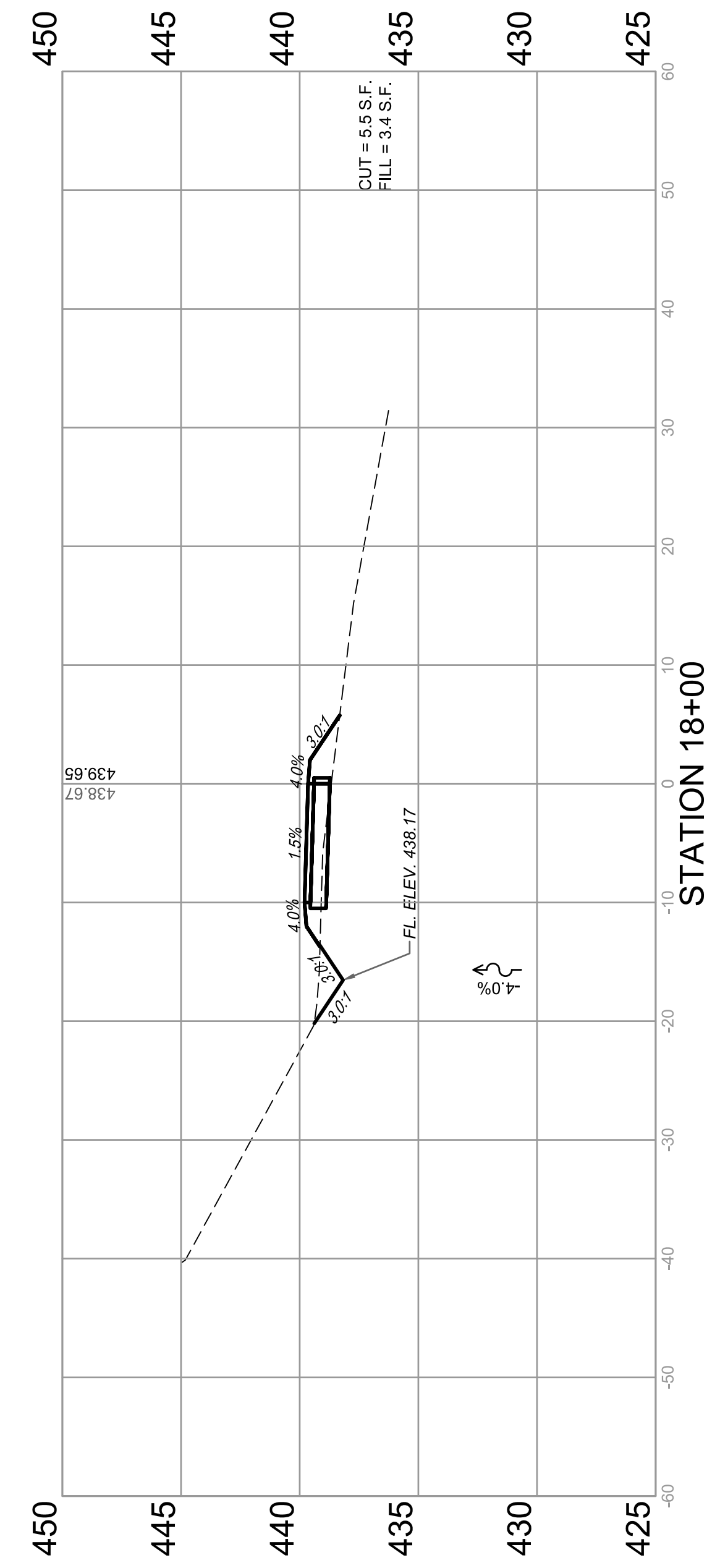
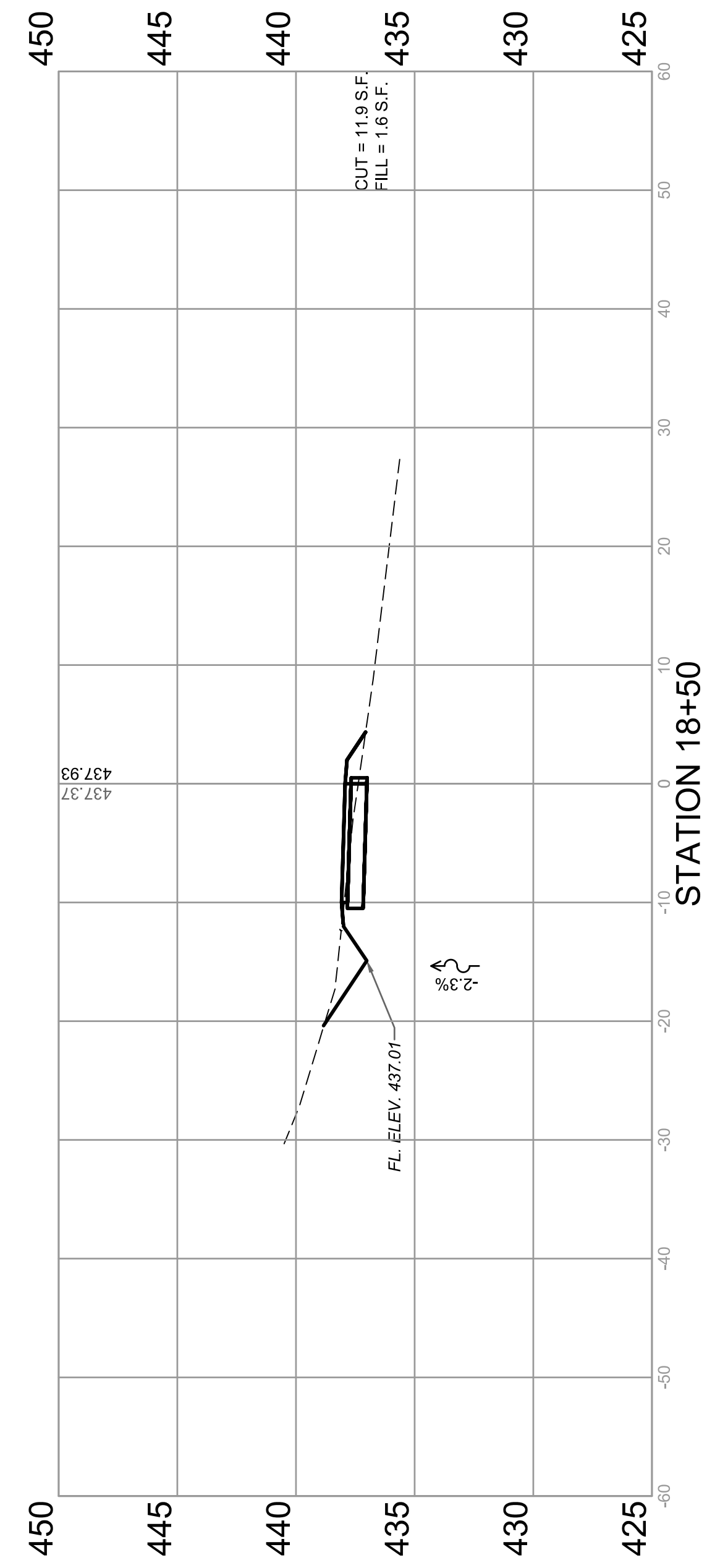
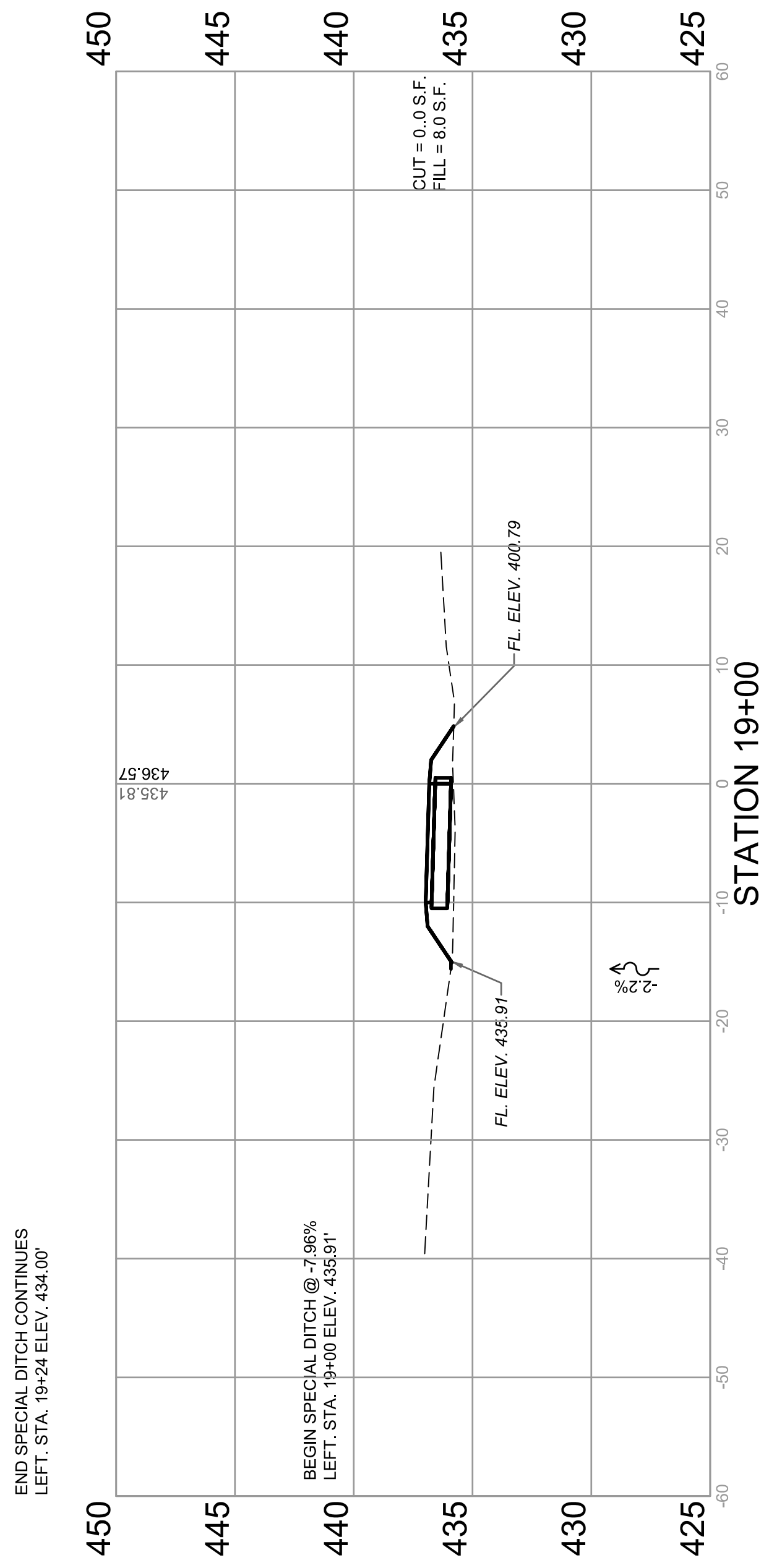
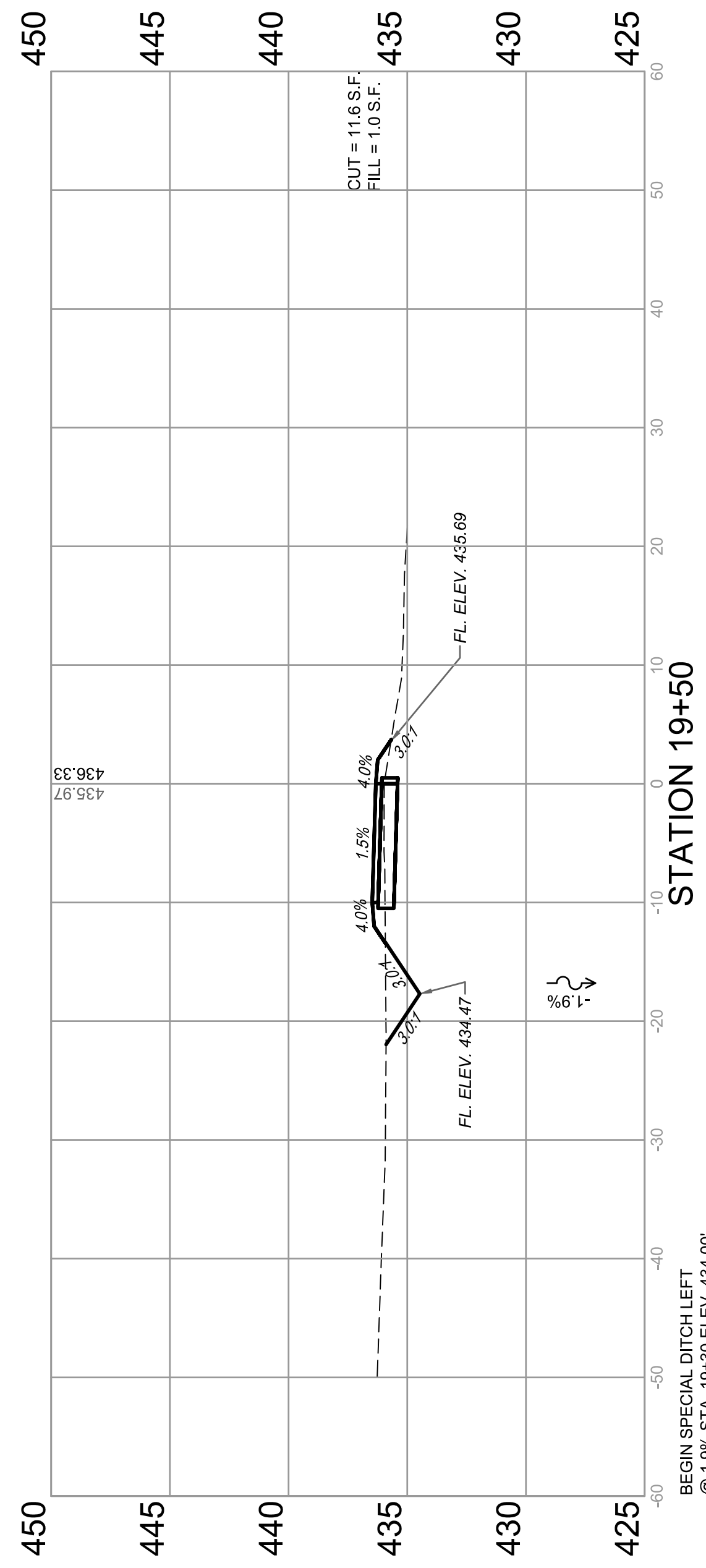


CROSS SECTIONS
SECTION 17-00054-00-BT

BOLM - SCHUHKRAFT CONNECTOR TRAIL
COLUMBIA, ILLINOIS

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Plotted By: Ian Gunn

F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
MUN 1194	17-00054-00-BT	MONROE	46	34
STA. 18+00	TO STA. 19+50			
FEDERAL AID PROJECT		CONTRACT 97701		

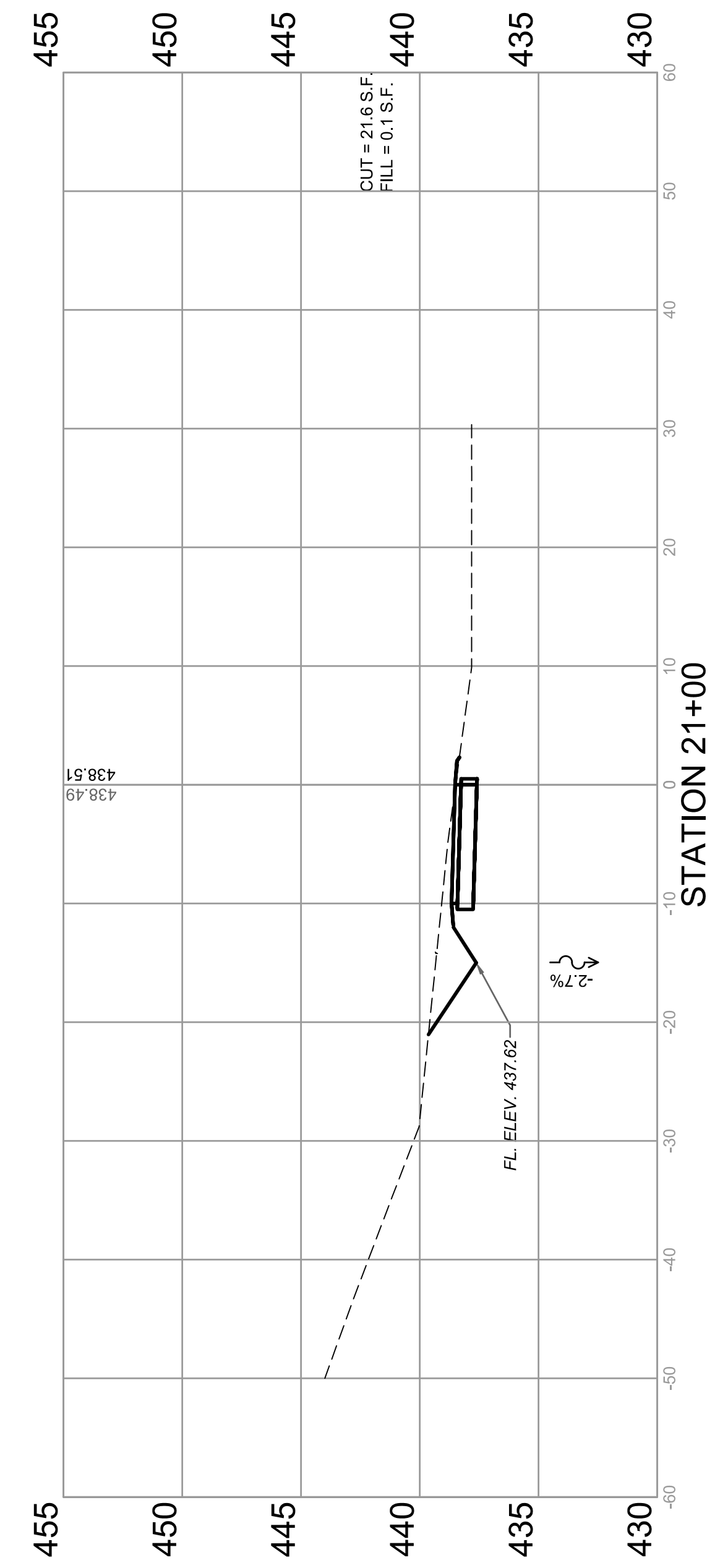
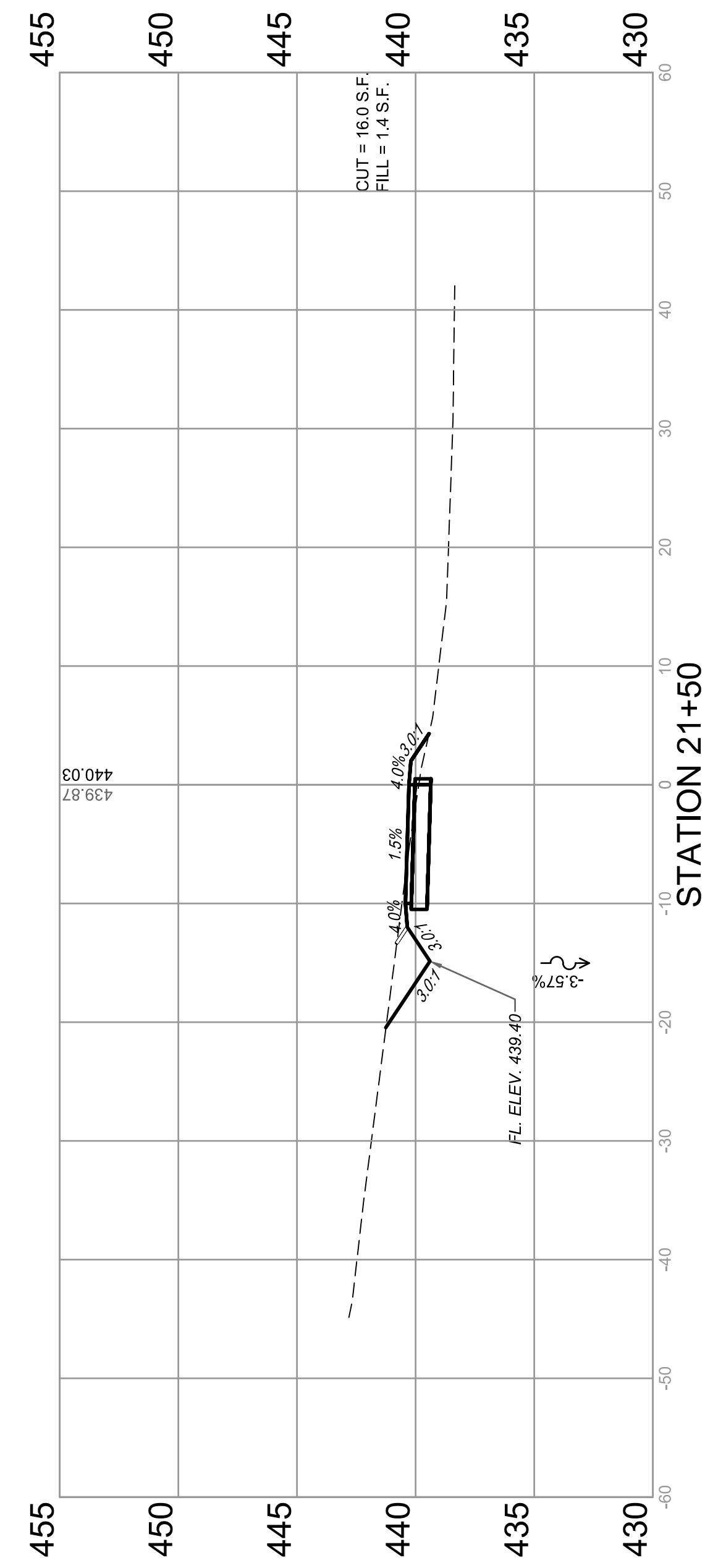


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 Plotted By: Ian Gunn

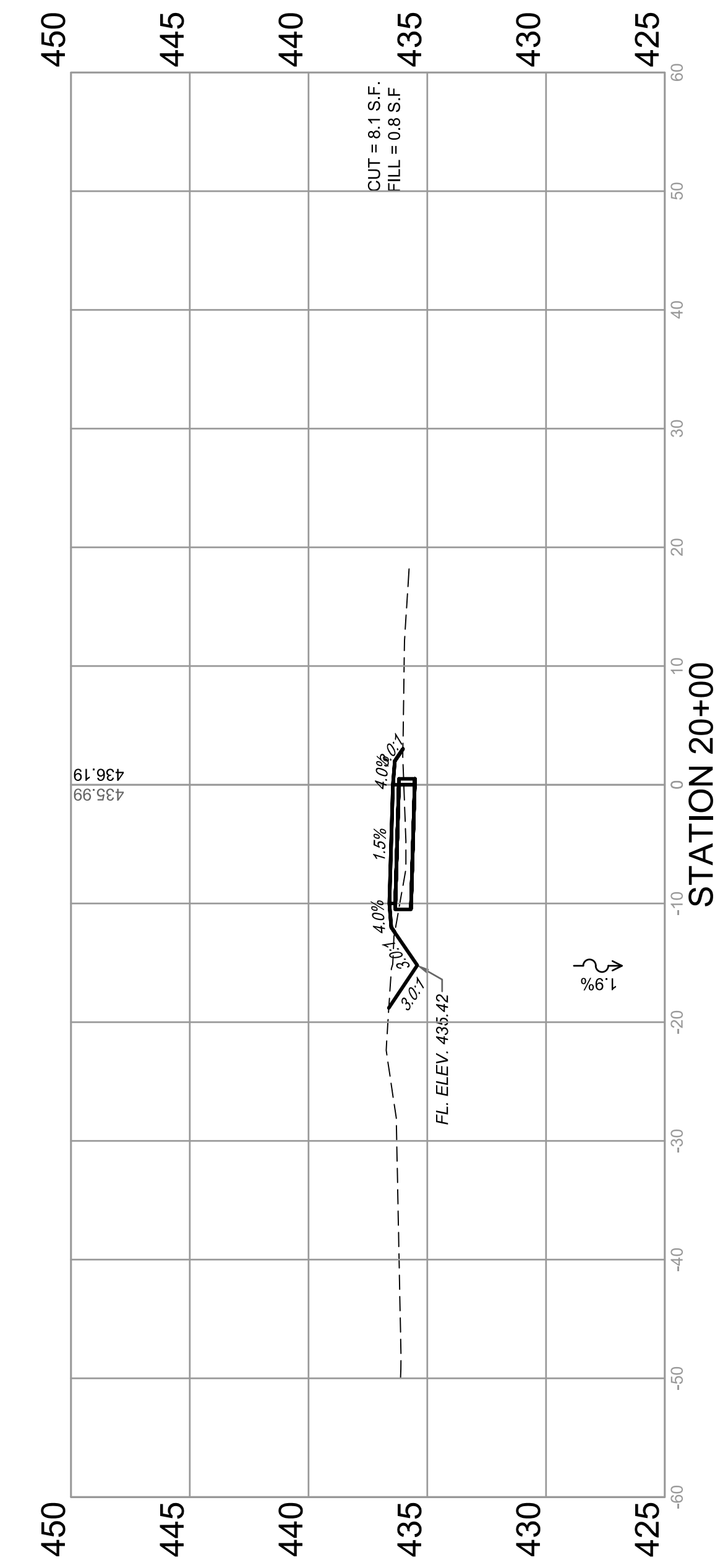
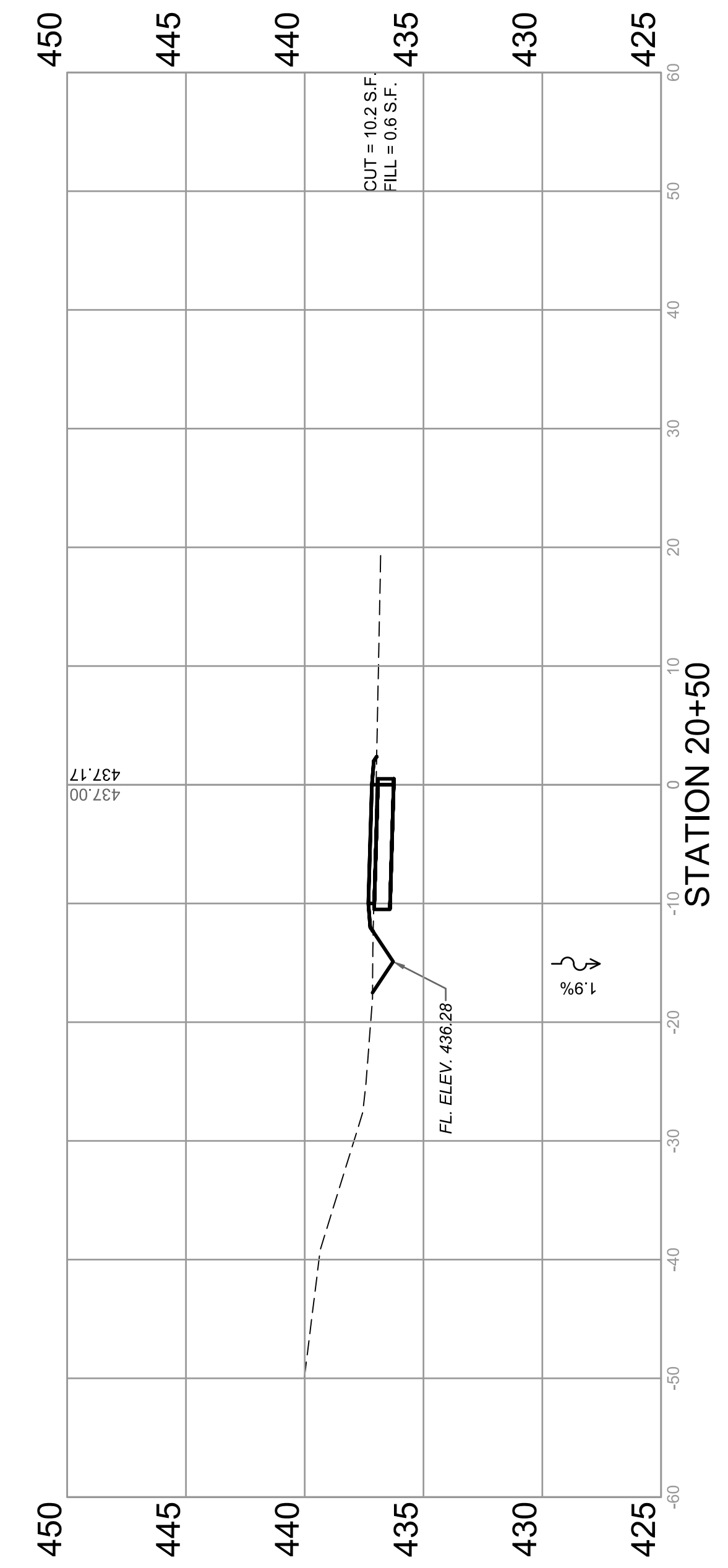
CROSS SECTIONS
 SECTION 17-00054-00-BT

BOLM - SCHUHKRAFT CONNECTOR TRAIL
 COLUMBIA, ILLINOIS

F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
MUN 1194	17-00054-00-BT	MONROE	46	35
STA. 20+00		TO STA. 21+50		
FEDERAL AID PROJECT		CONTRACT 97701		

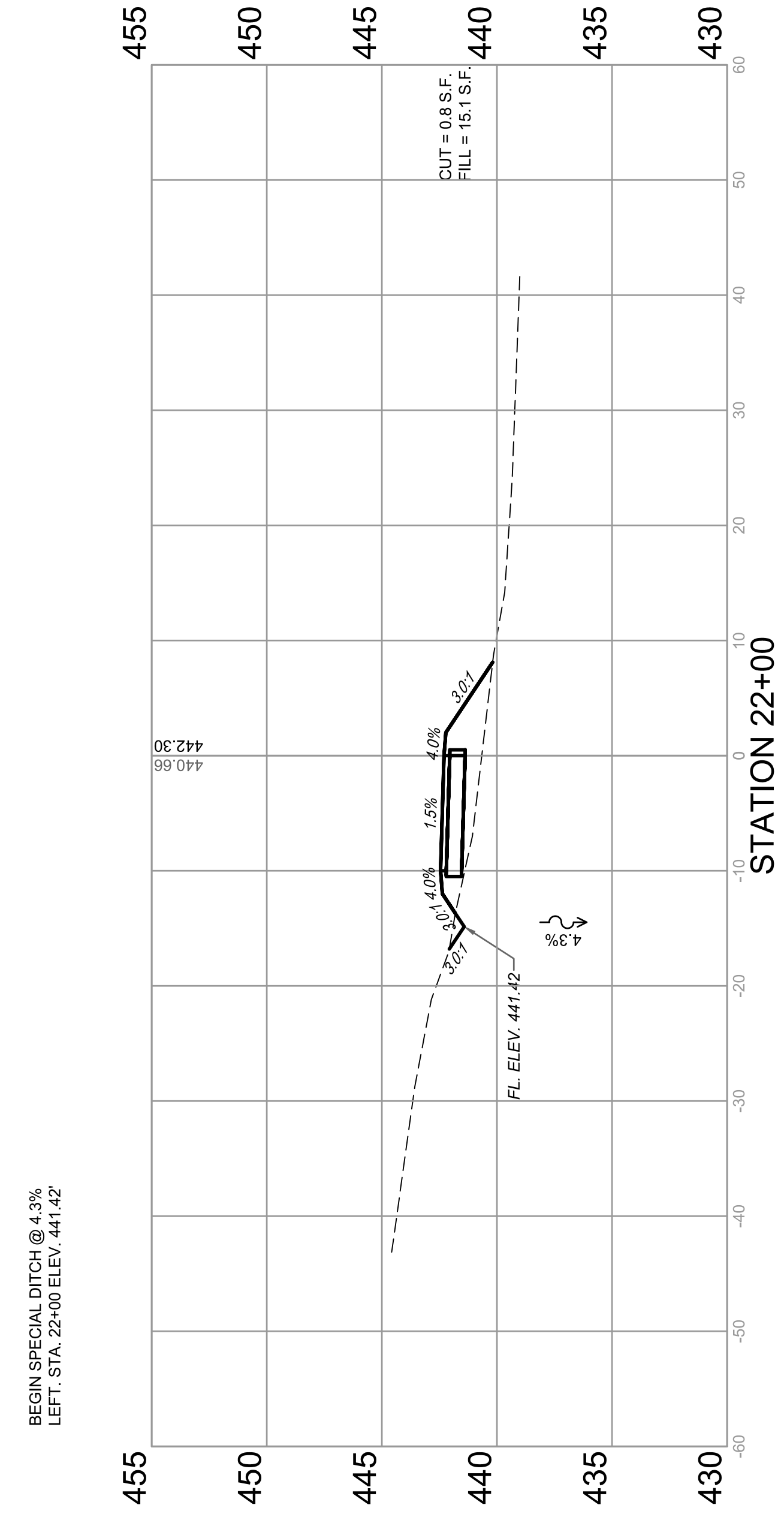
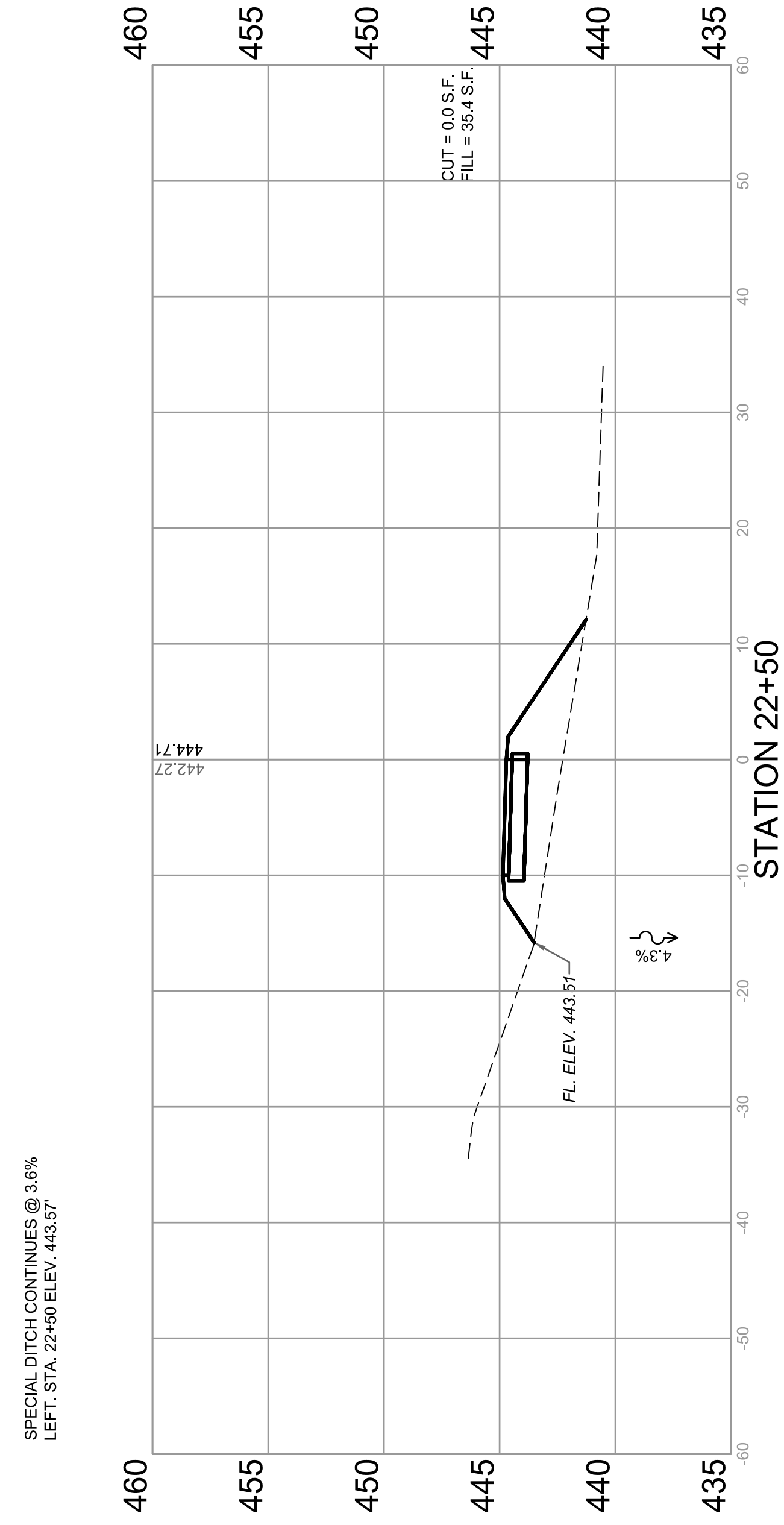
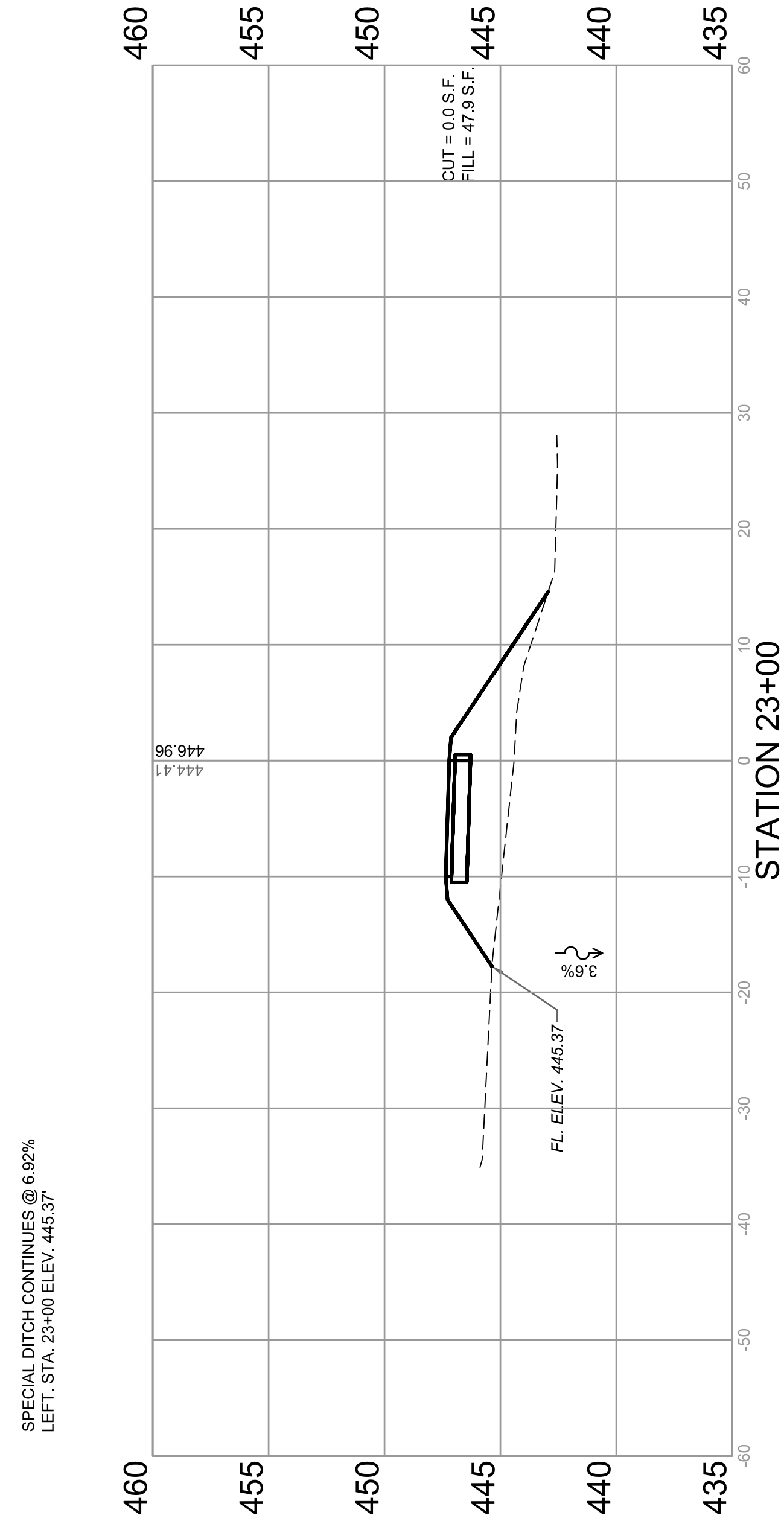
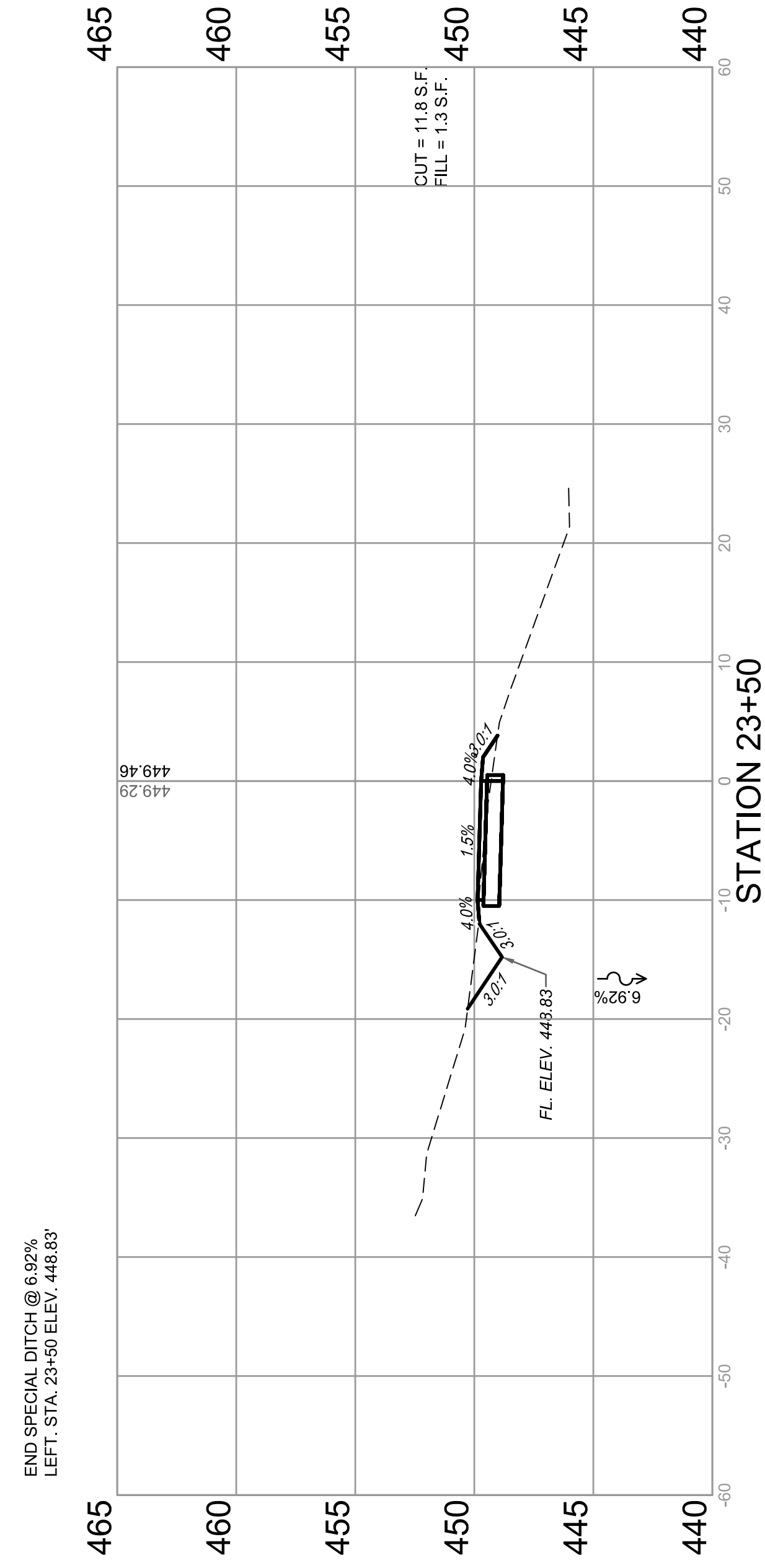


END SPECIAL DITCH @ 1.9%
LEFT STA. 20+50 ELEV. 436.28'

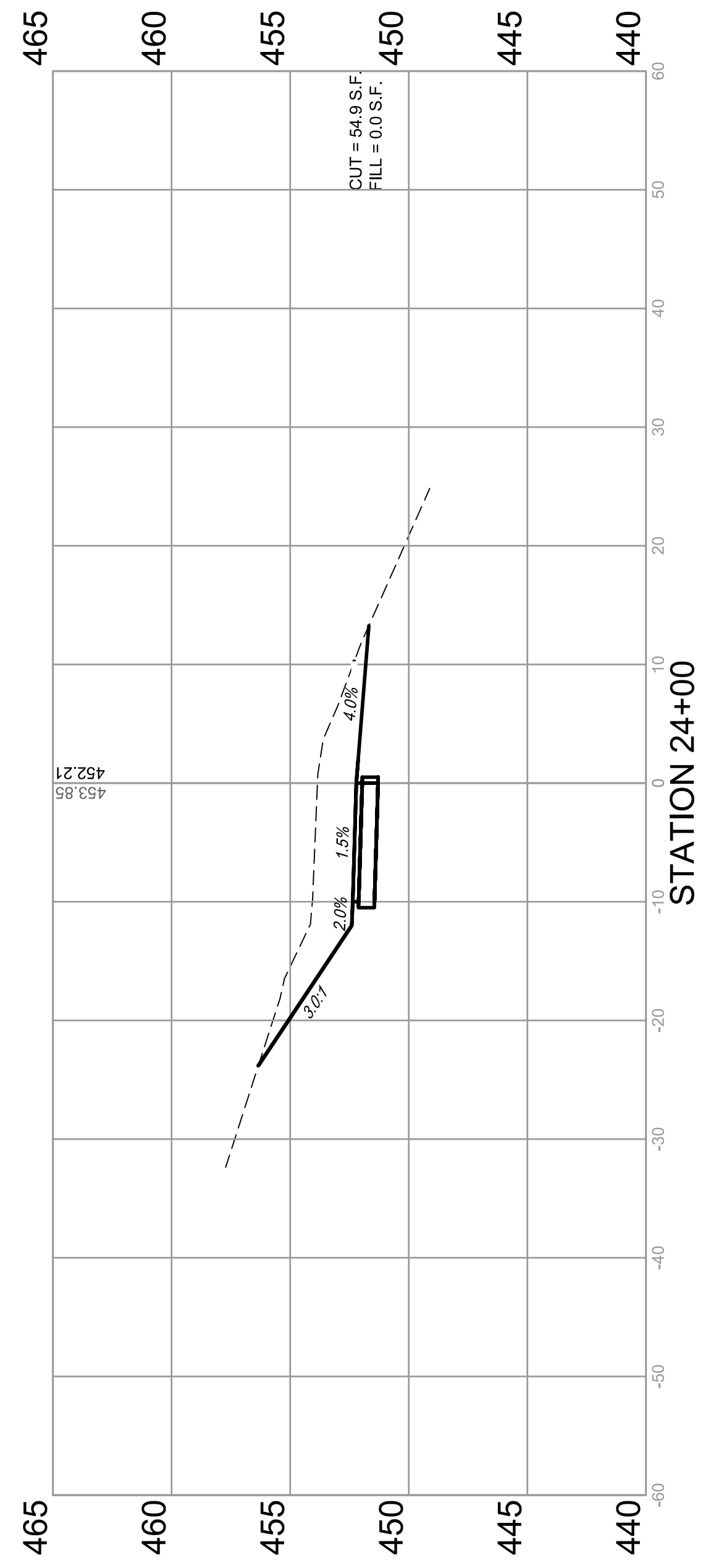
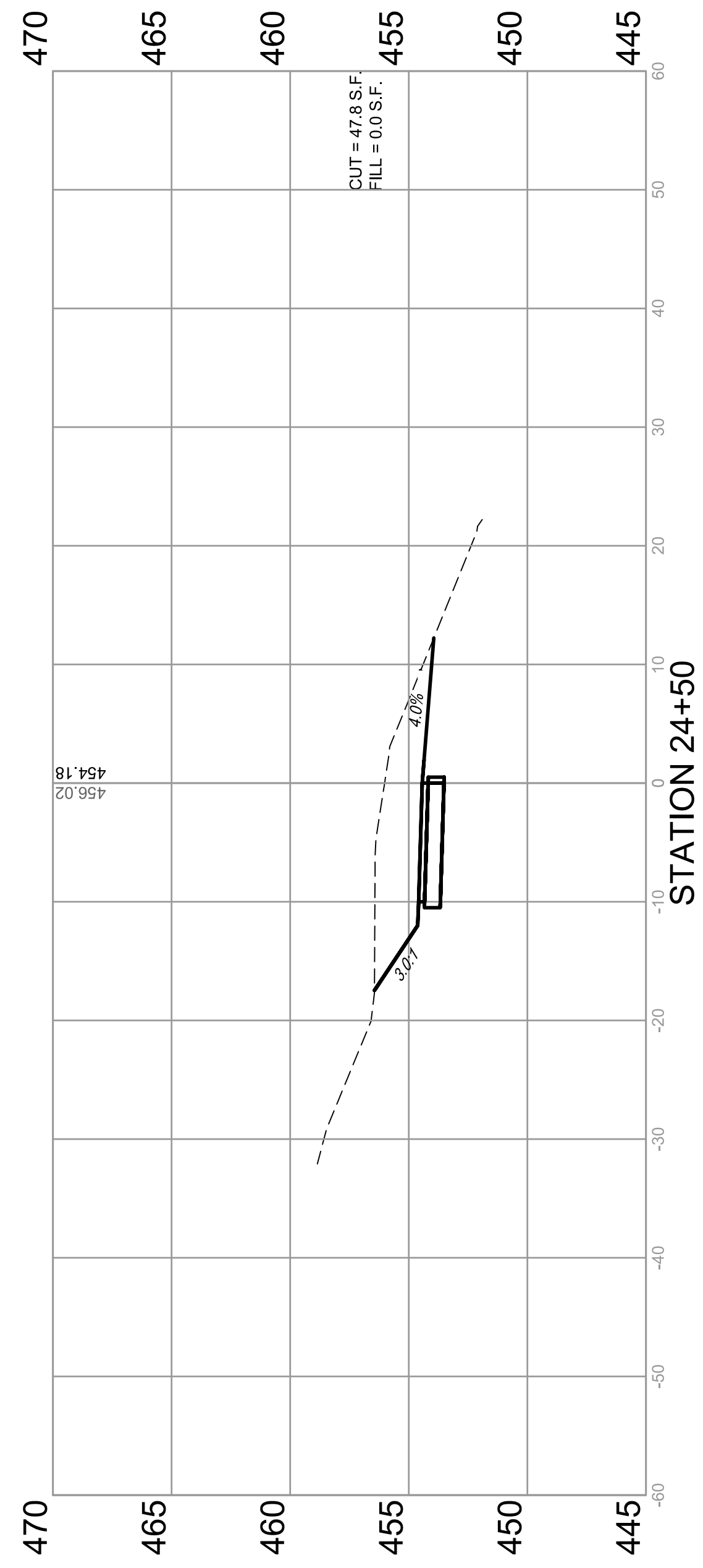
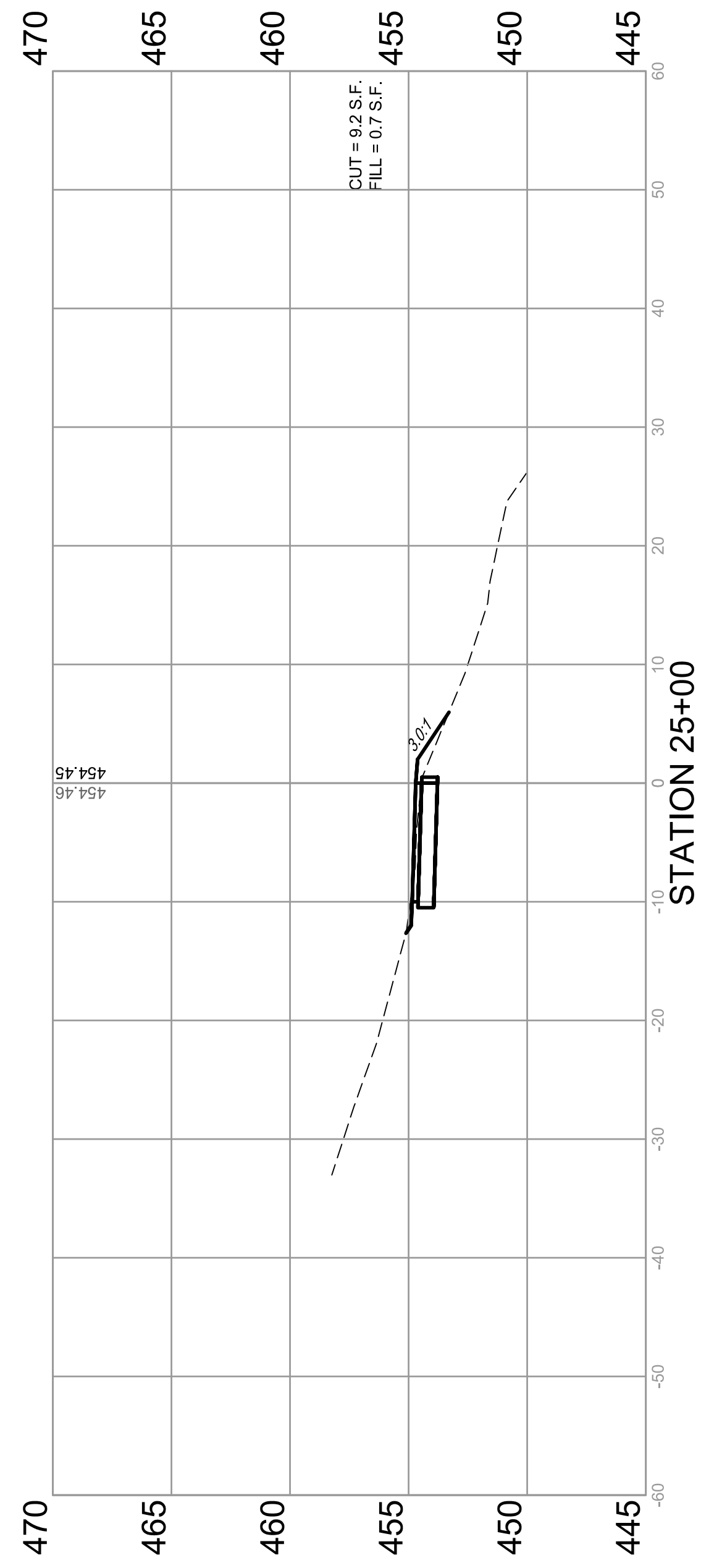
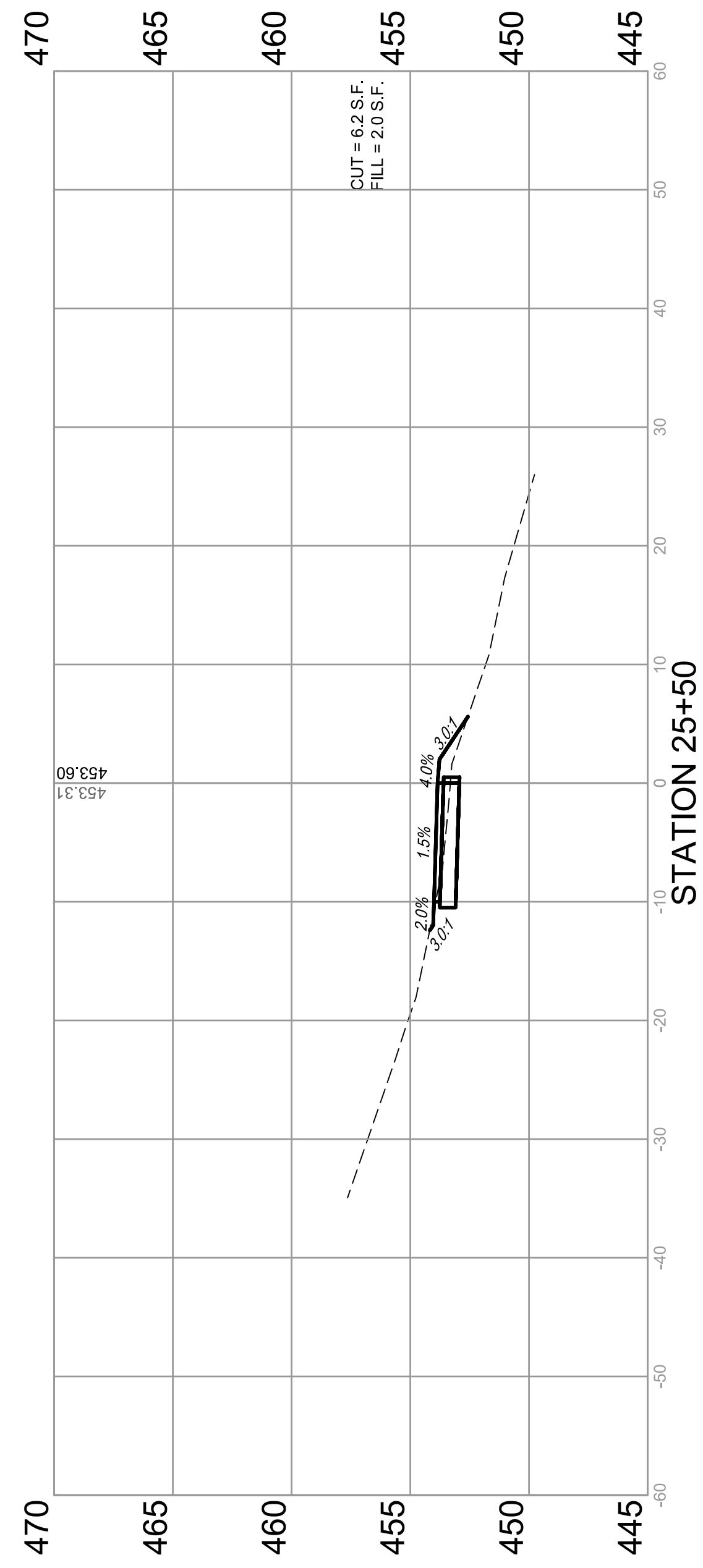


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F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
MUN 1194	17-00054-00-BT	MONROE	46	36
STA. 22+00	TO STA. 23+50			
FEDERAL AID PROJECT		CONTRACT 97701		



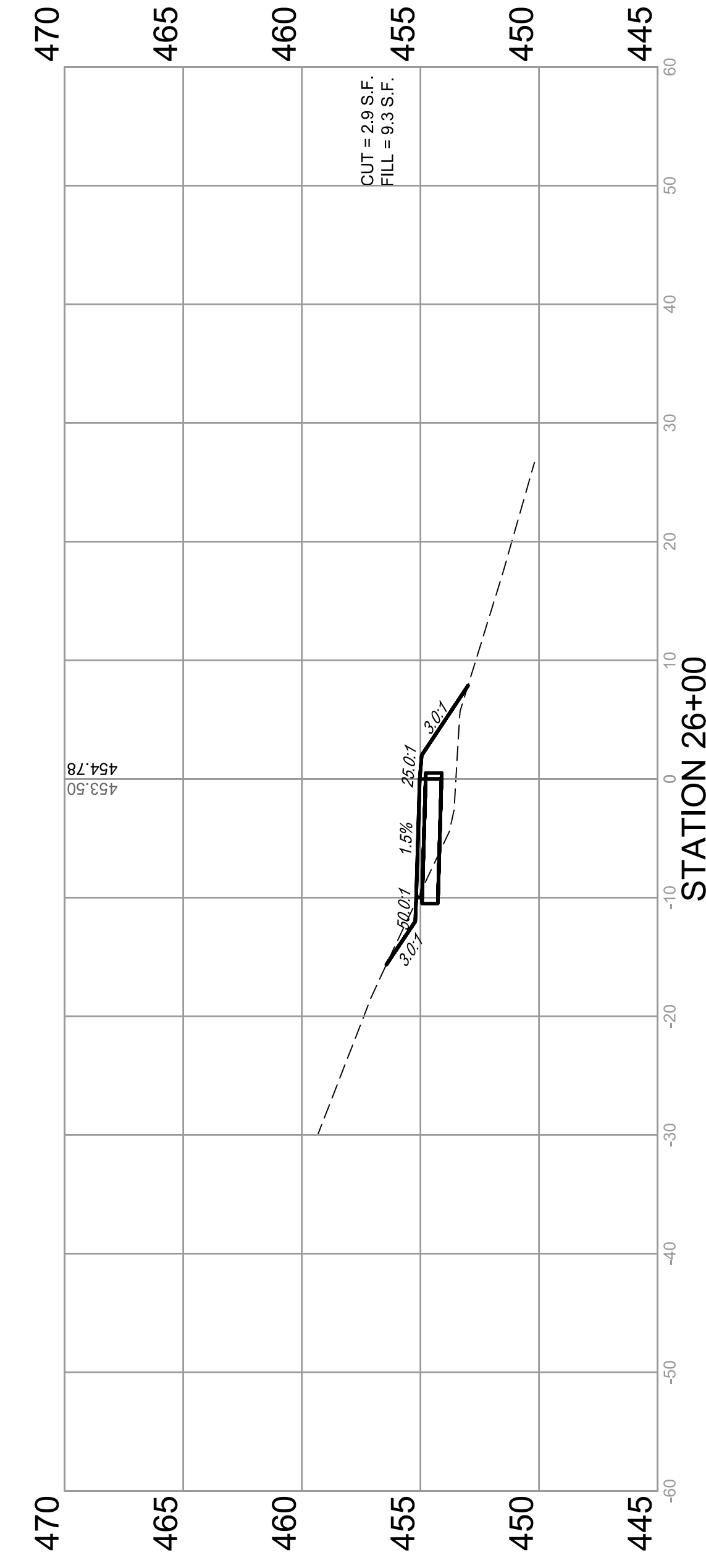
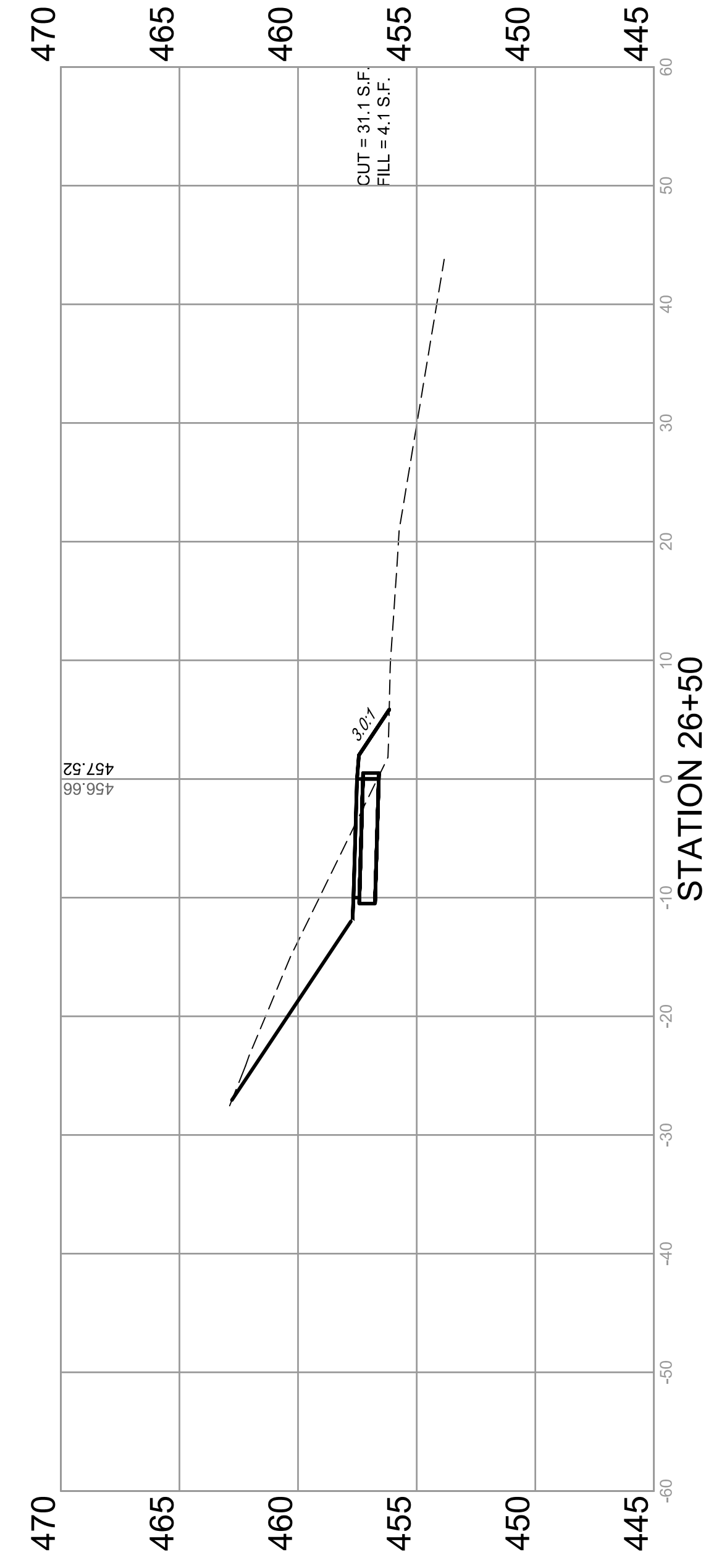
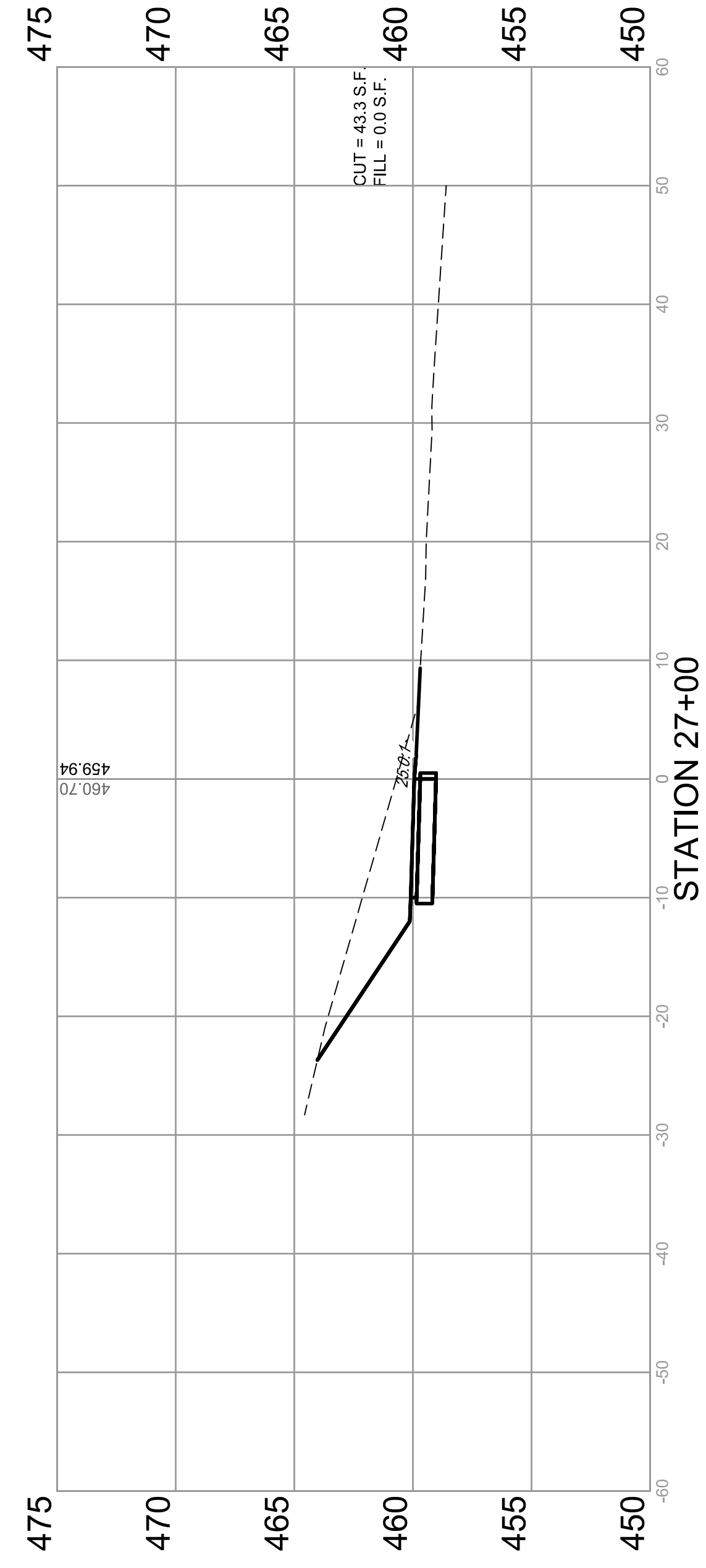
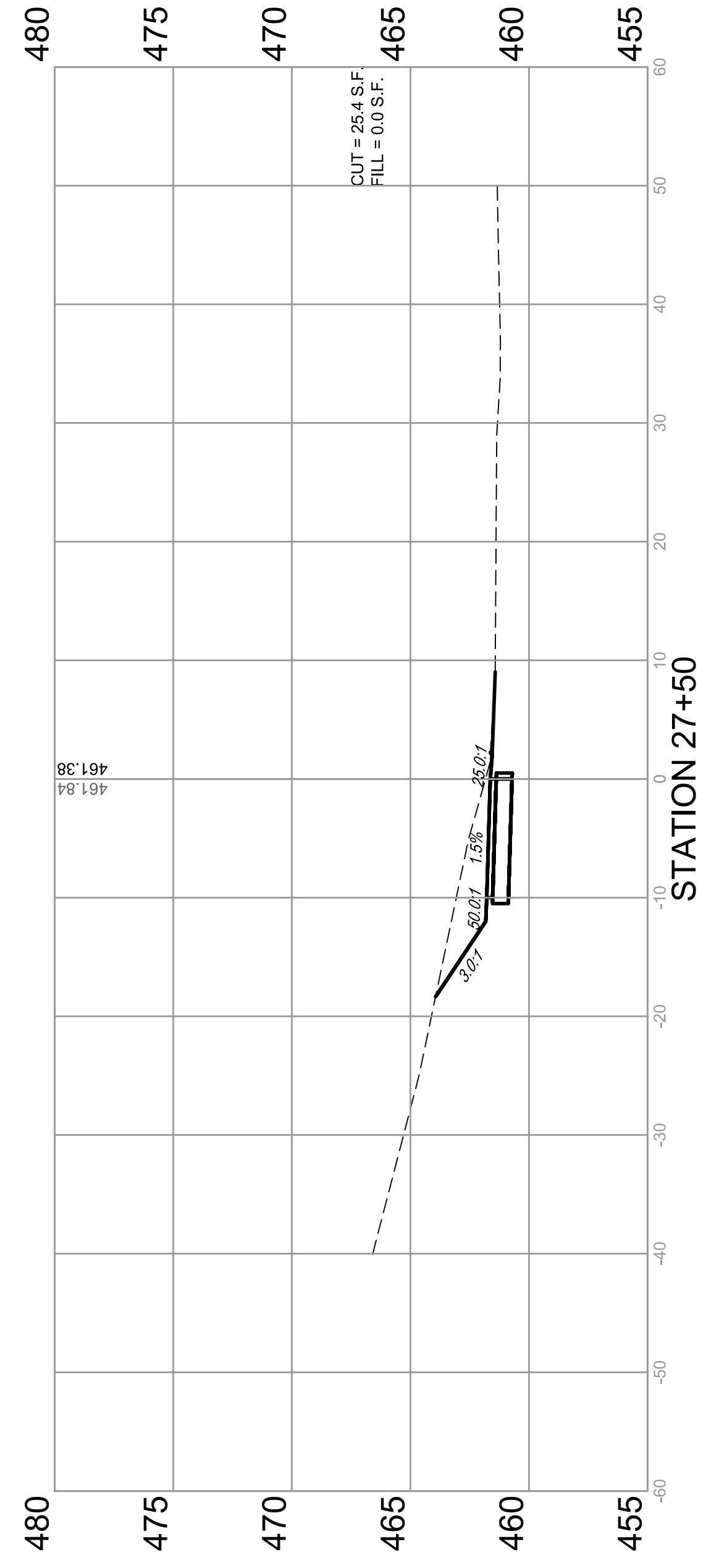
F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
MUN 1194	17-00054-00-BT	MONROE	46	37
STA. 24+00	TO STA. 25+50			
FEDERAL AID PROJECT		CONTRACT 97701		



CROSS SECTIONS
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BOLM - SCHUHKRAFT CONNECTOR TRAIL
COLUMBIA, ILLINOIS

F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
MUN 1194	17-00054-00-BT	MONROE	46	38
STA. 26+00	TO STA. 27+50			
FEDERAL AID PROJECT		CONTRACT 97701		

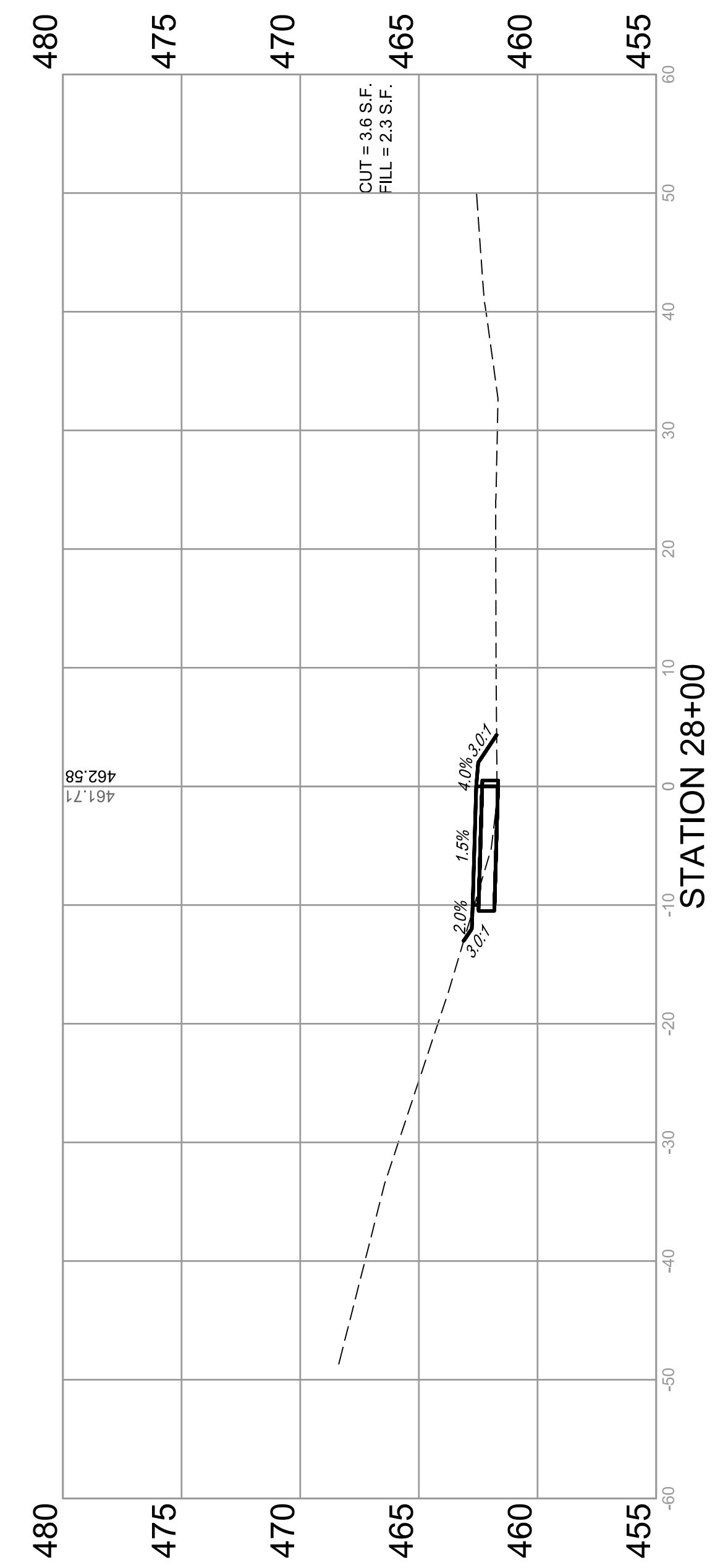
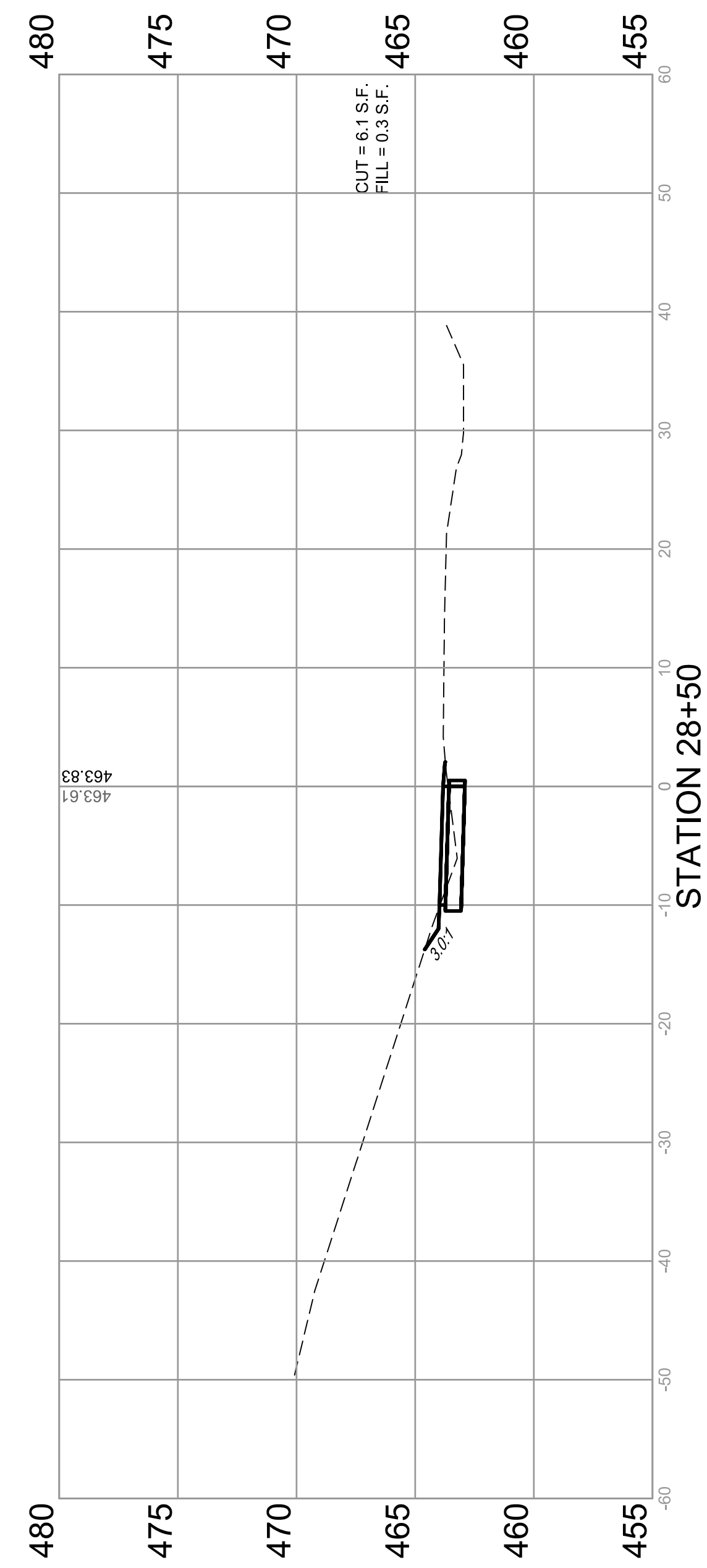
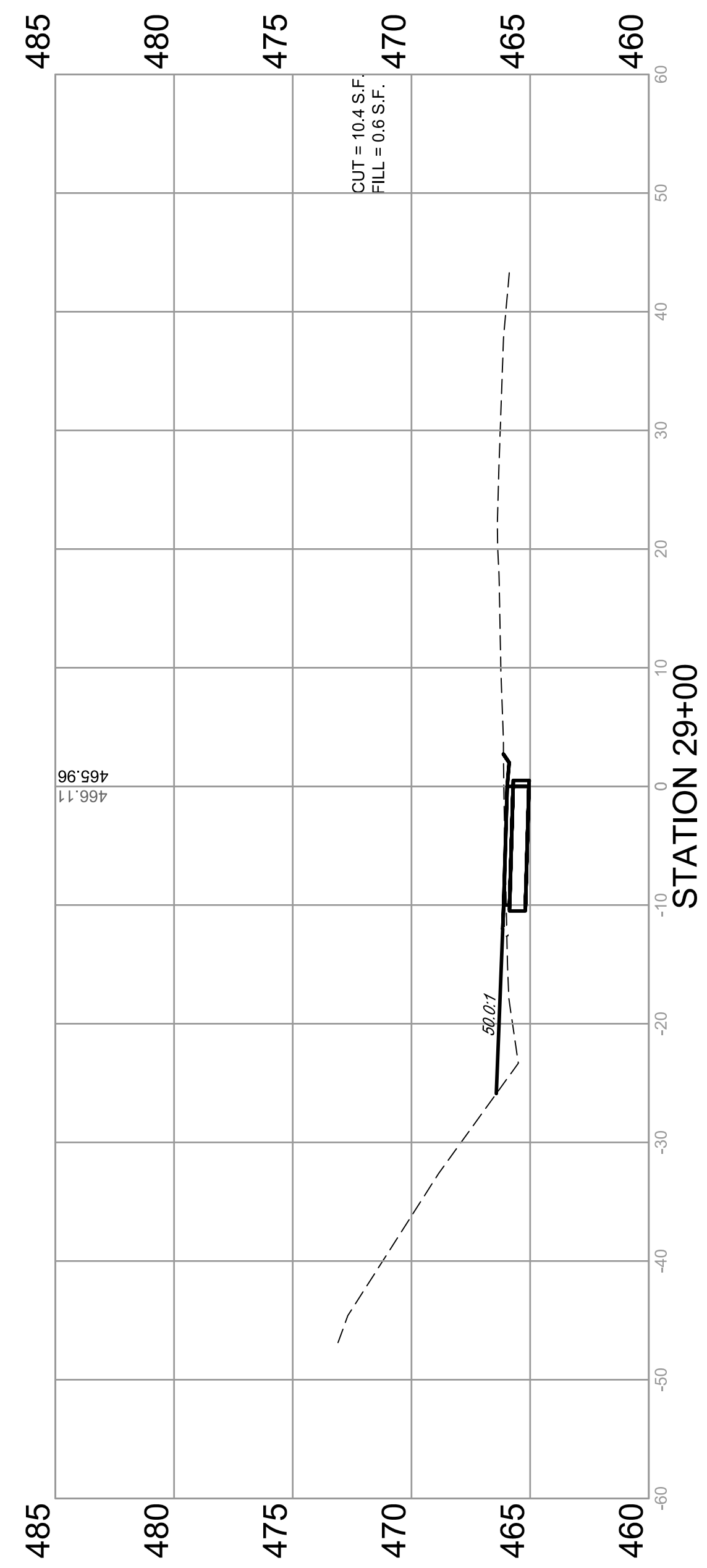
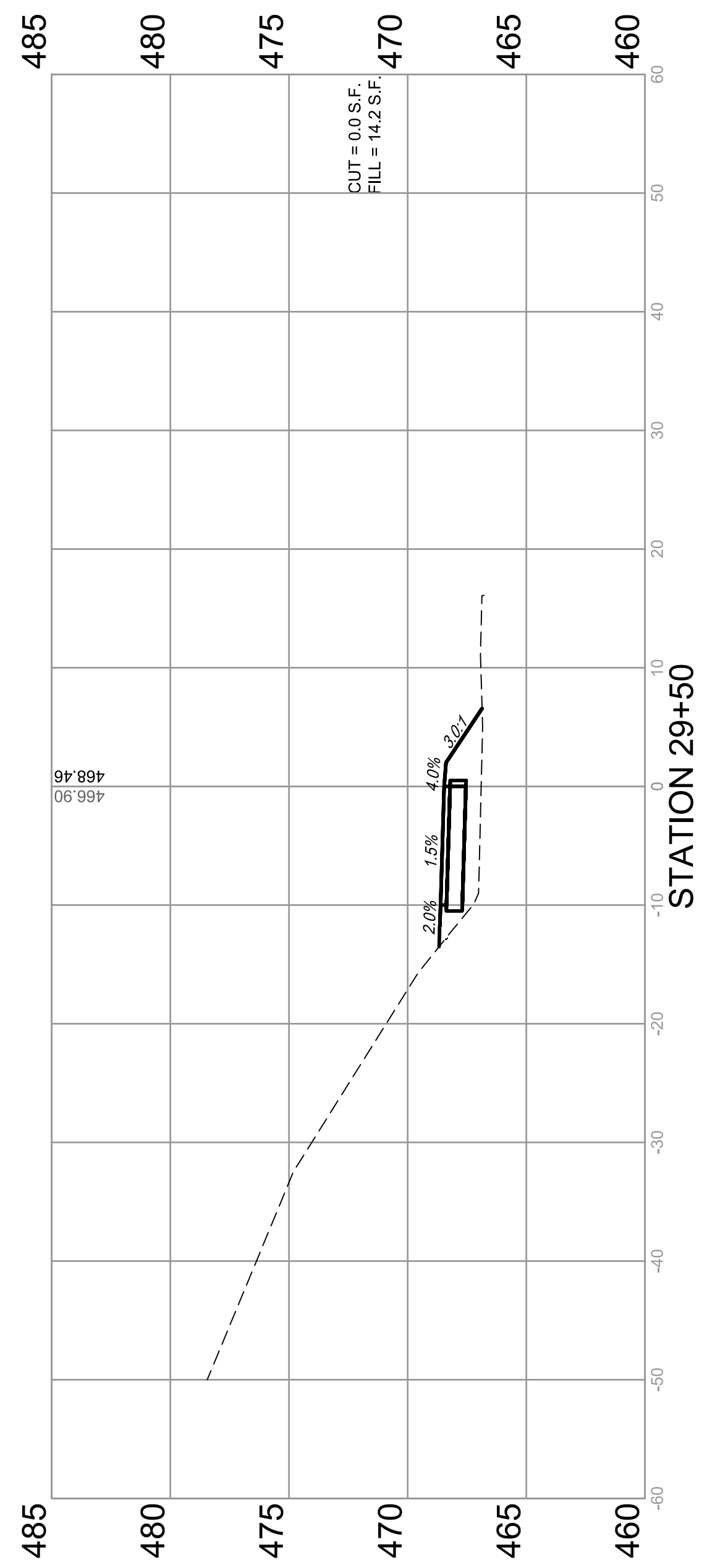


CROSS SECTIONS
SECTION 17-00054-00-BT

BOLM - SCHUHKRAFT CONNECTOR TRAIL
COLUMBIA, ILLINOIS

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F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
MUN 1194	17-00054-00-BT	MONROE	46	39
STA. 28+00		TO STA.	29+50	
FEDERAL AID PROJECT			CONTRACT 97701	

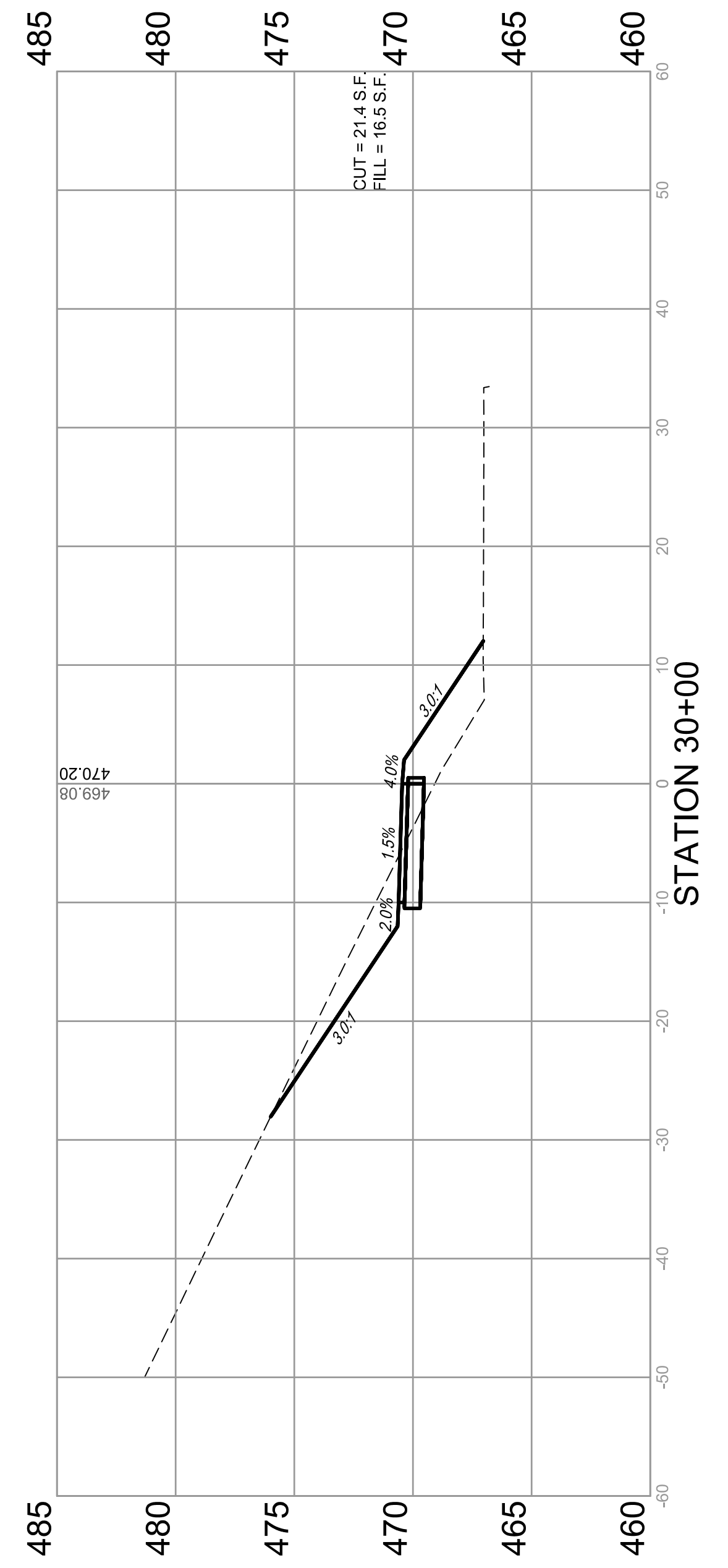
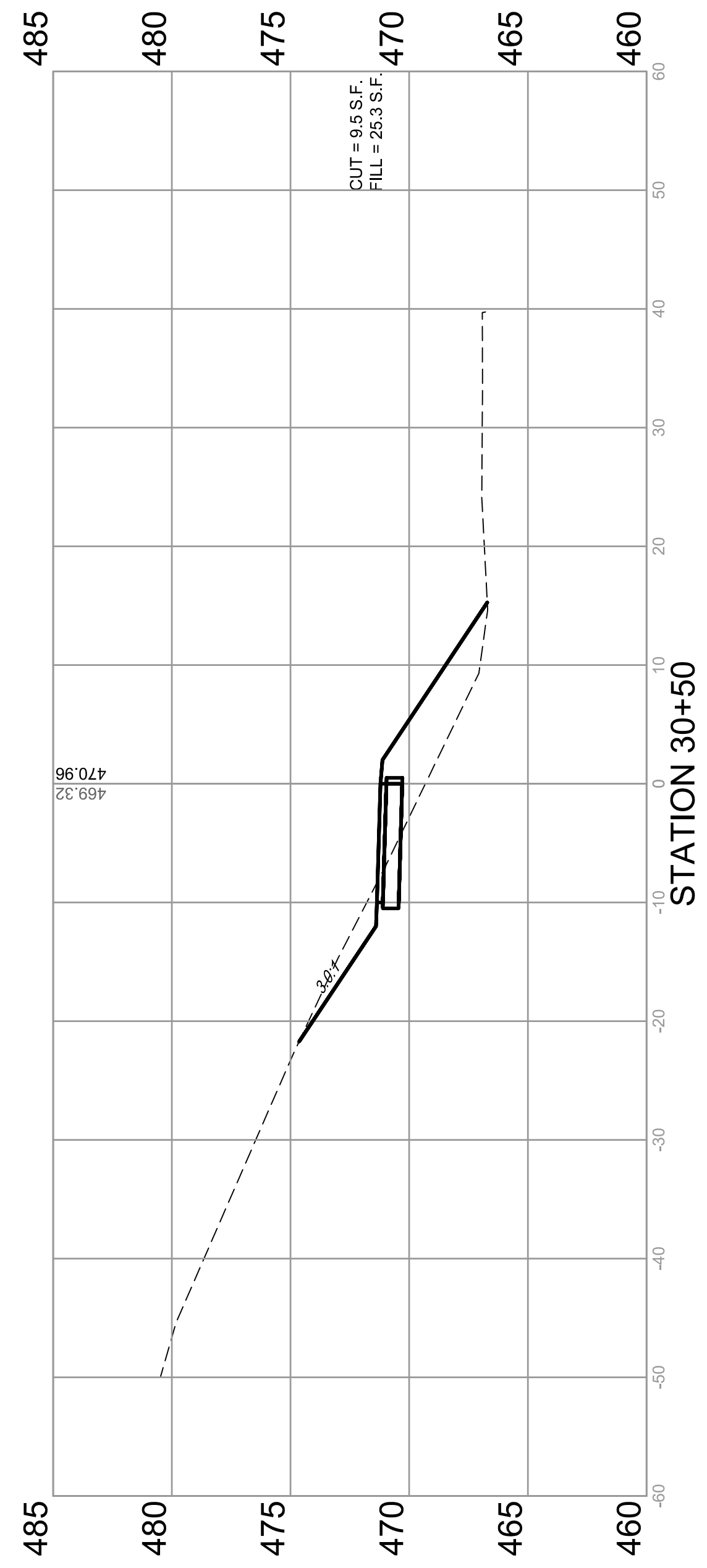
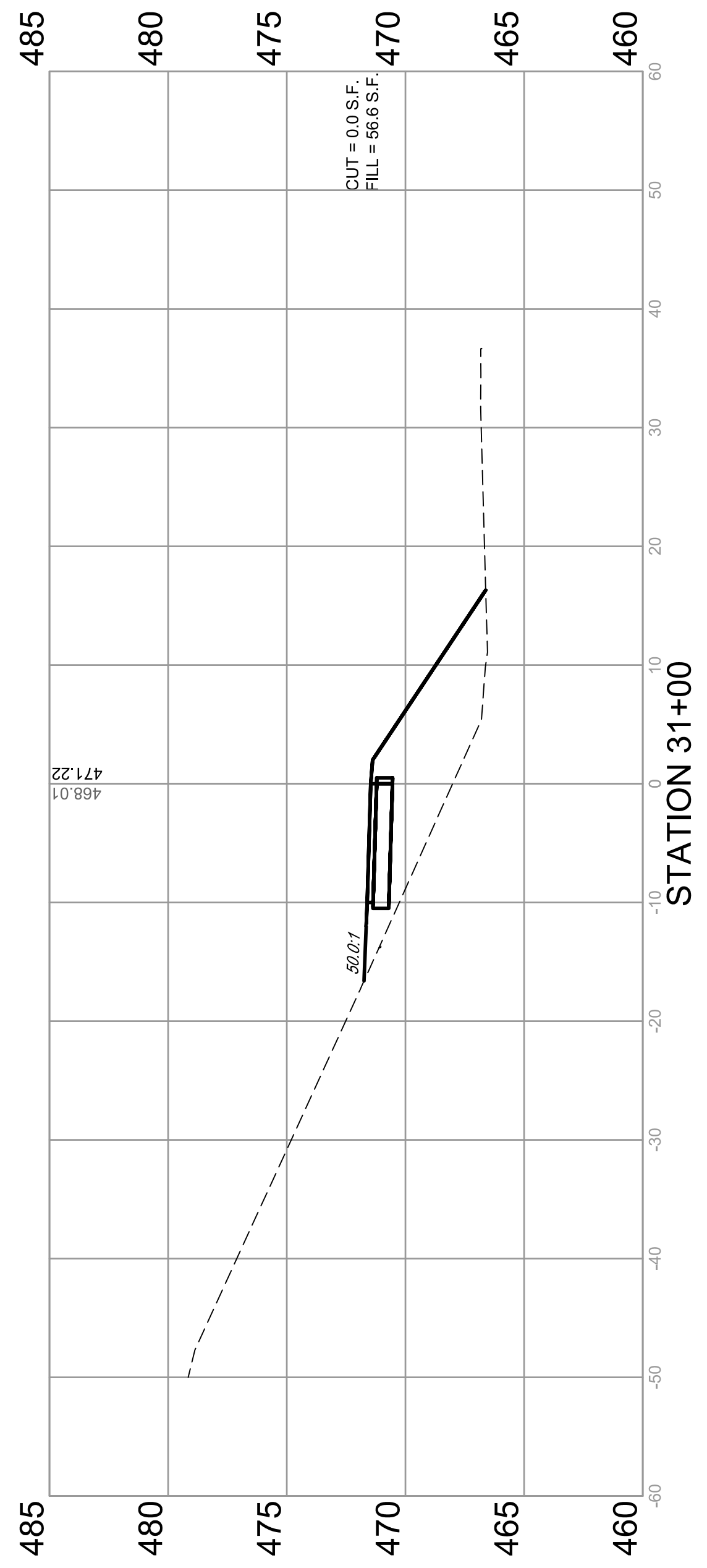
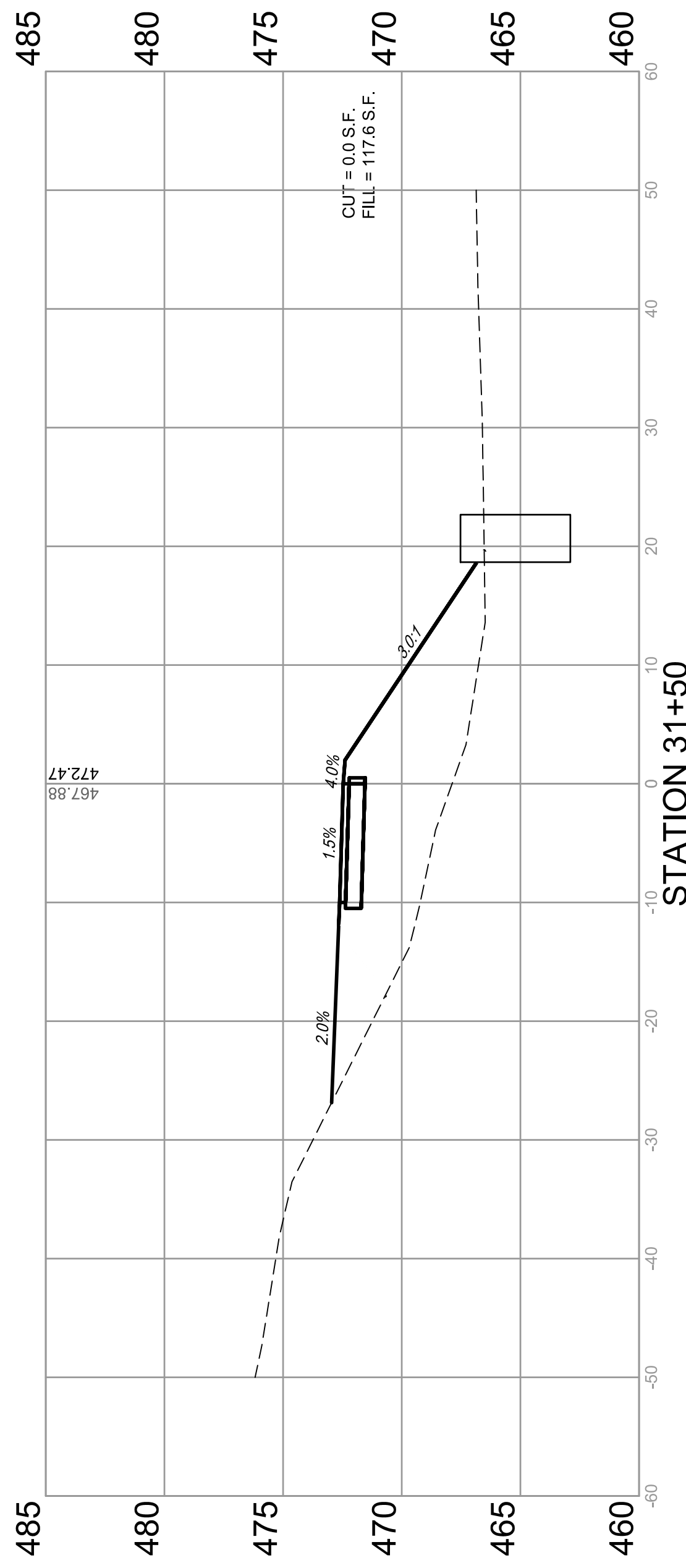


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CROSS SECTIONS
 SECTION 17-00054-00-BT

BOLM - SCHUHKRAFT CONNECTOR TRAIL
 COLUMBIA, ILLINOIS

F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
MUN 1194	17-00054-00-BT	MONROE	46	40
STA. 30+00		TO STA.	31+50	
FEDERAL AID PROJECT			CONTRACT 97701	

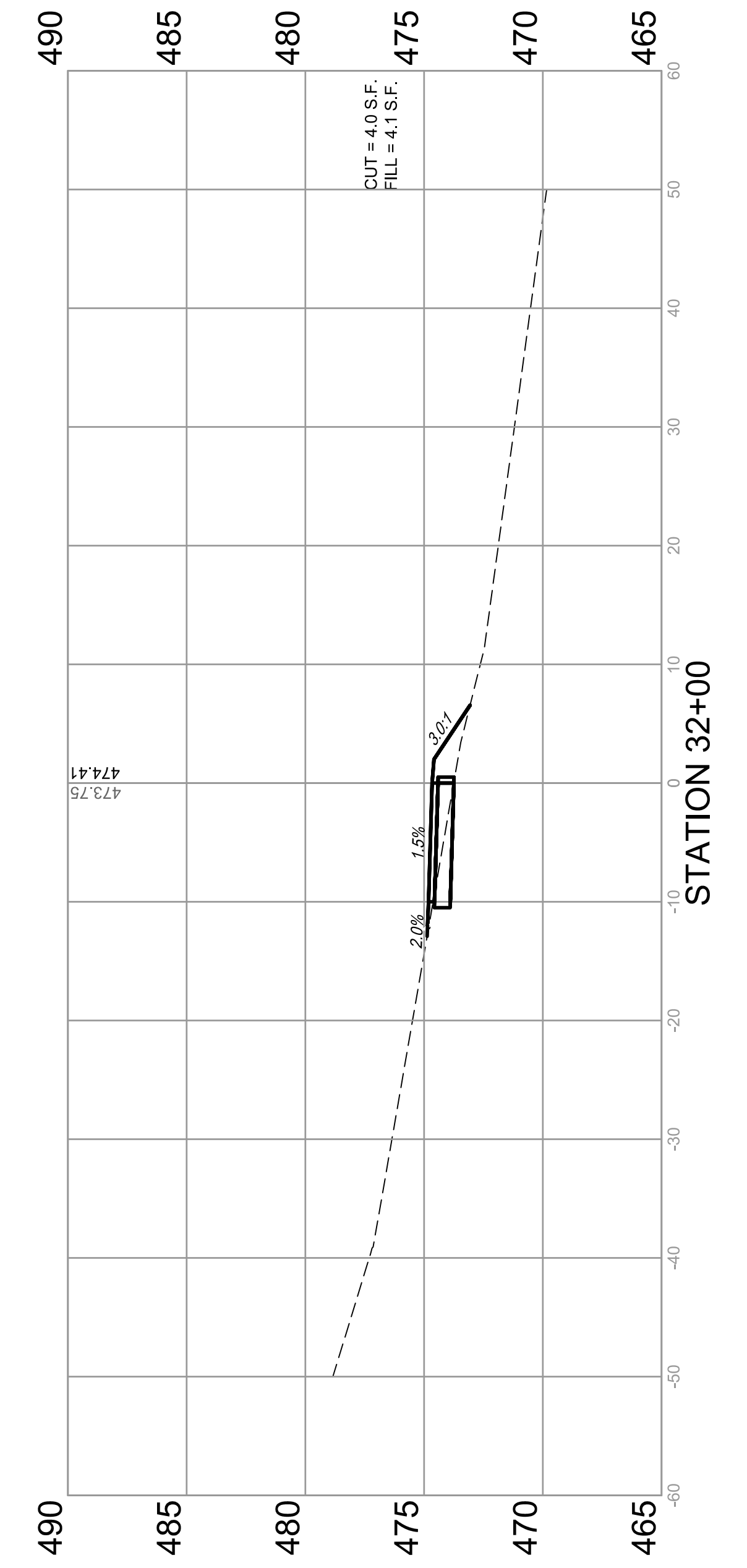
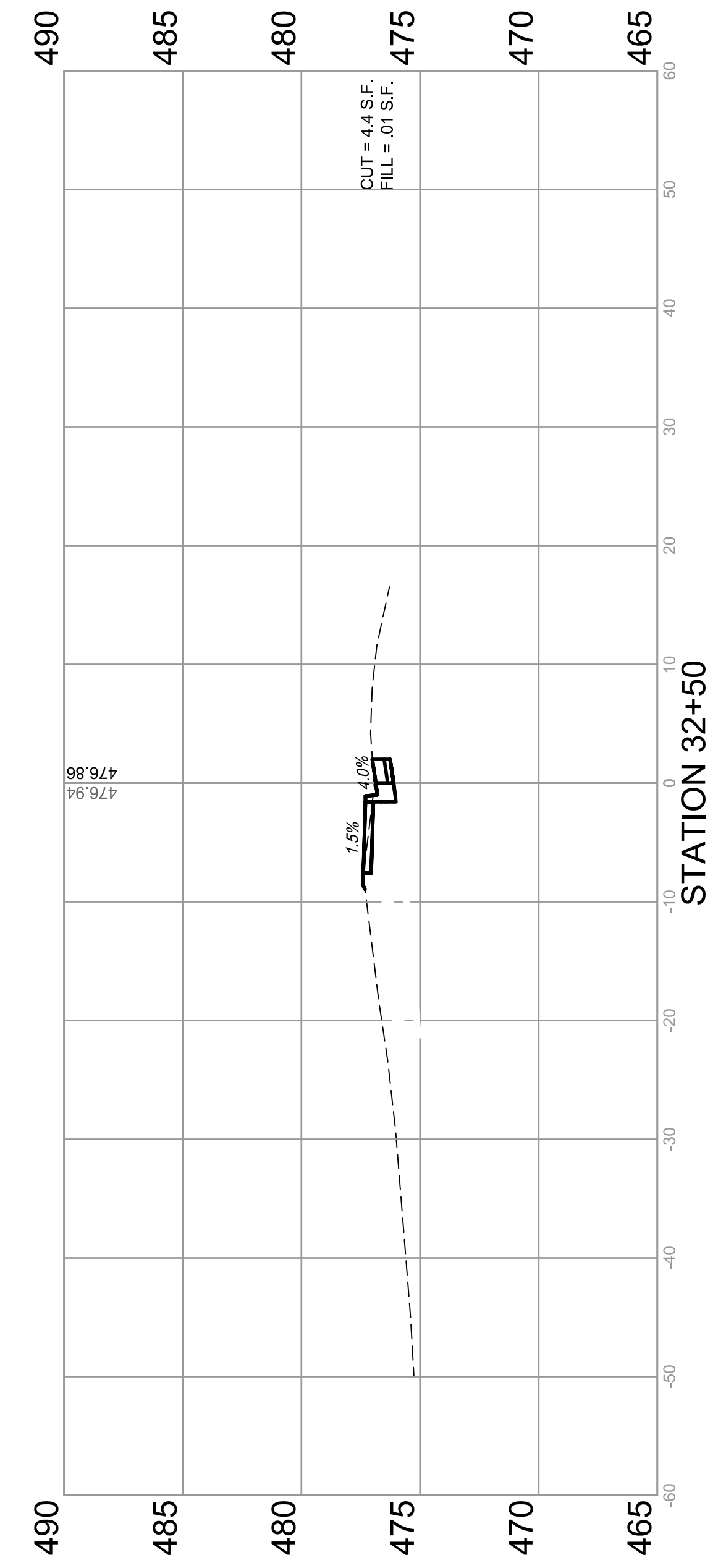
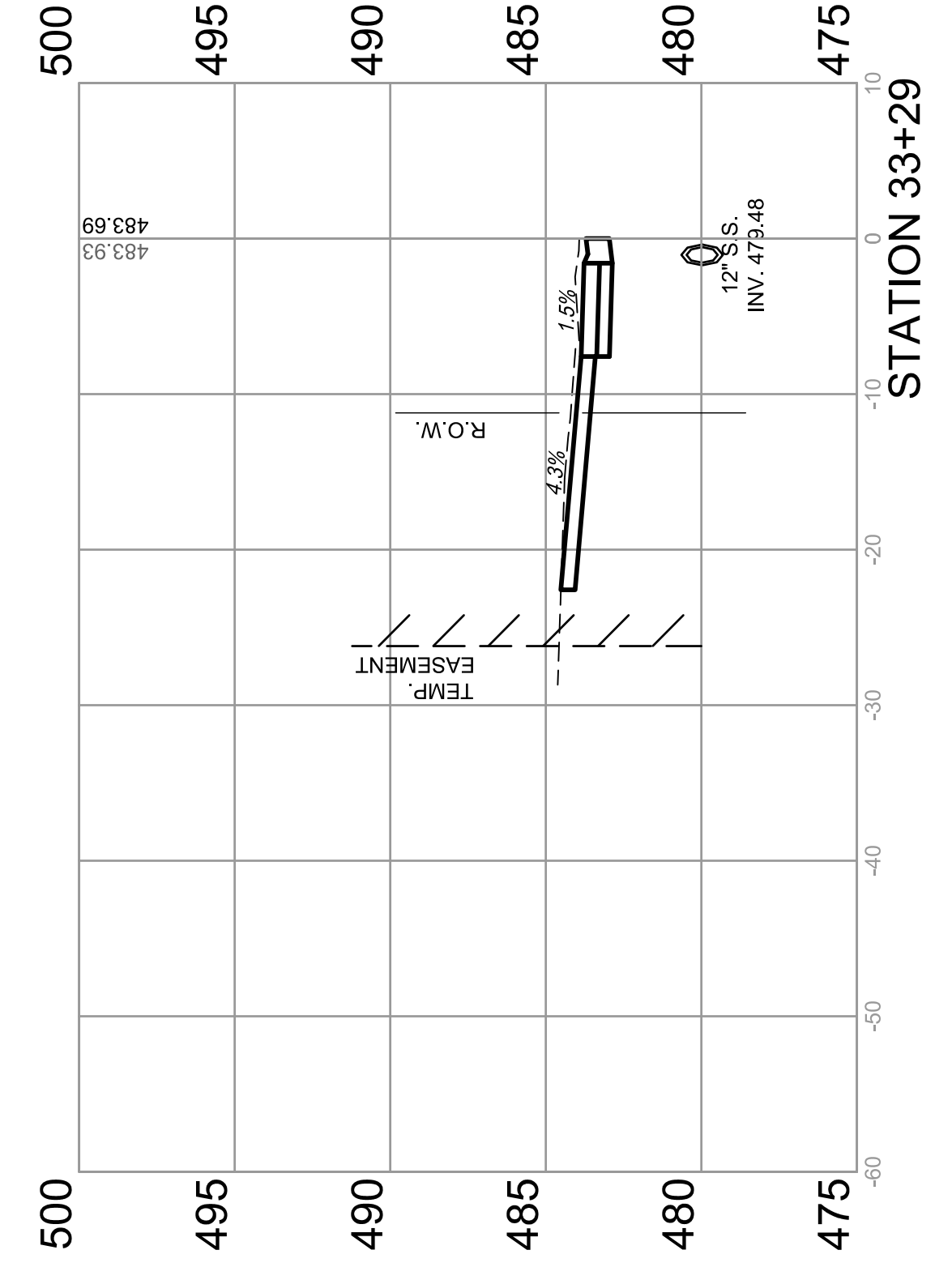
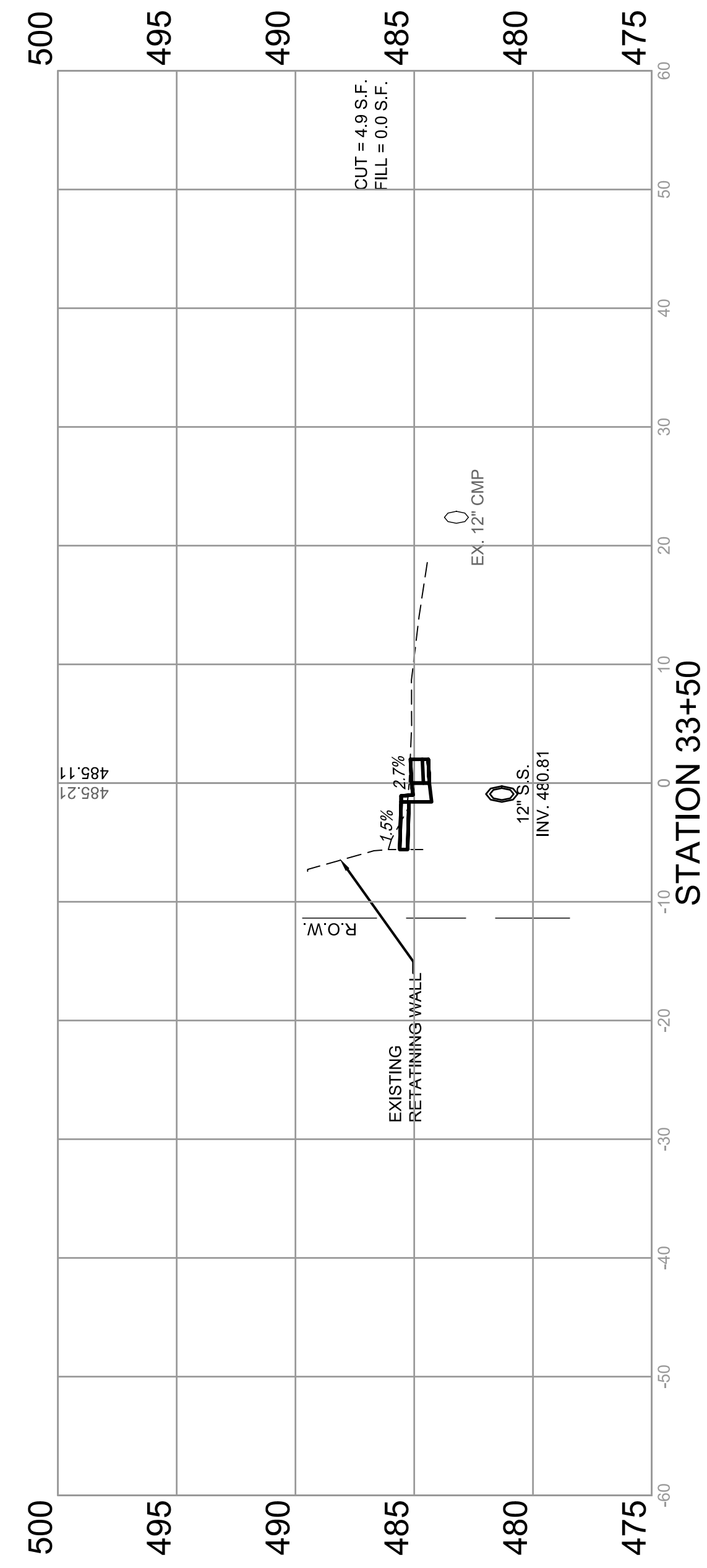


CROSS SECTIONS
SECTION 17-00054-00-BT

BOLM - SCHUHKRAFT CONNECTOR TRAIL
COLUMBIA, ILLINOIS

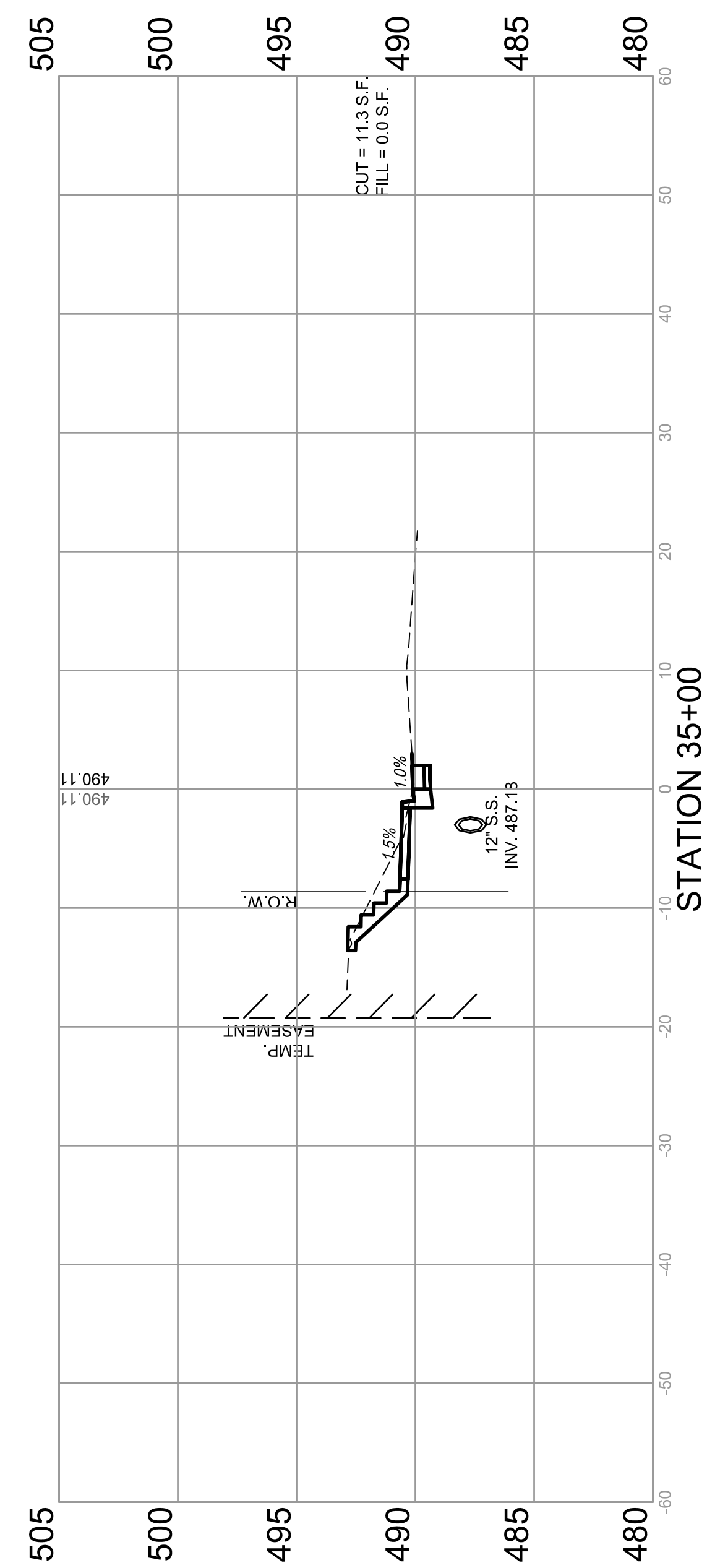
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F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
MUN 1194	17-00054-00-BT	MONROE	46	41
STA. 32+00		TO STA.		33+50
FEDERAL AID PROJECT			CONTRACT 97701	

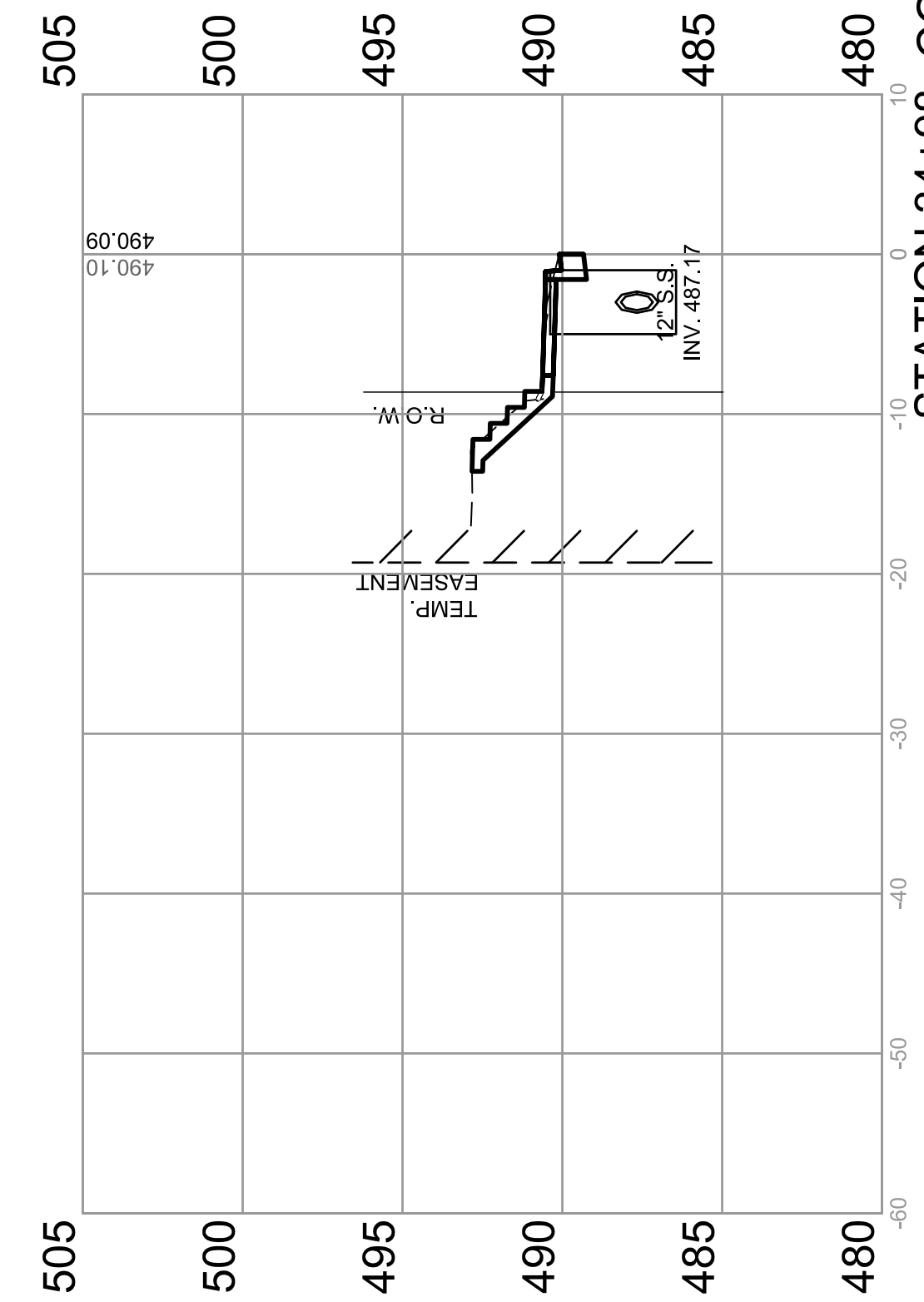


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 Plotted By: Ian Gunn

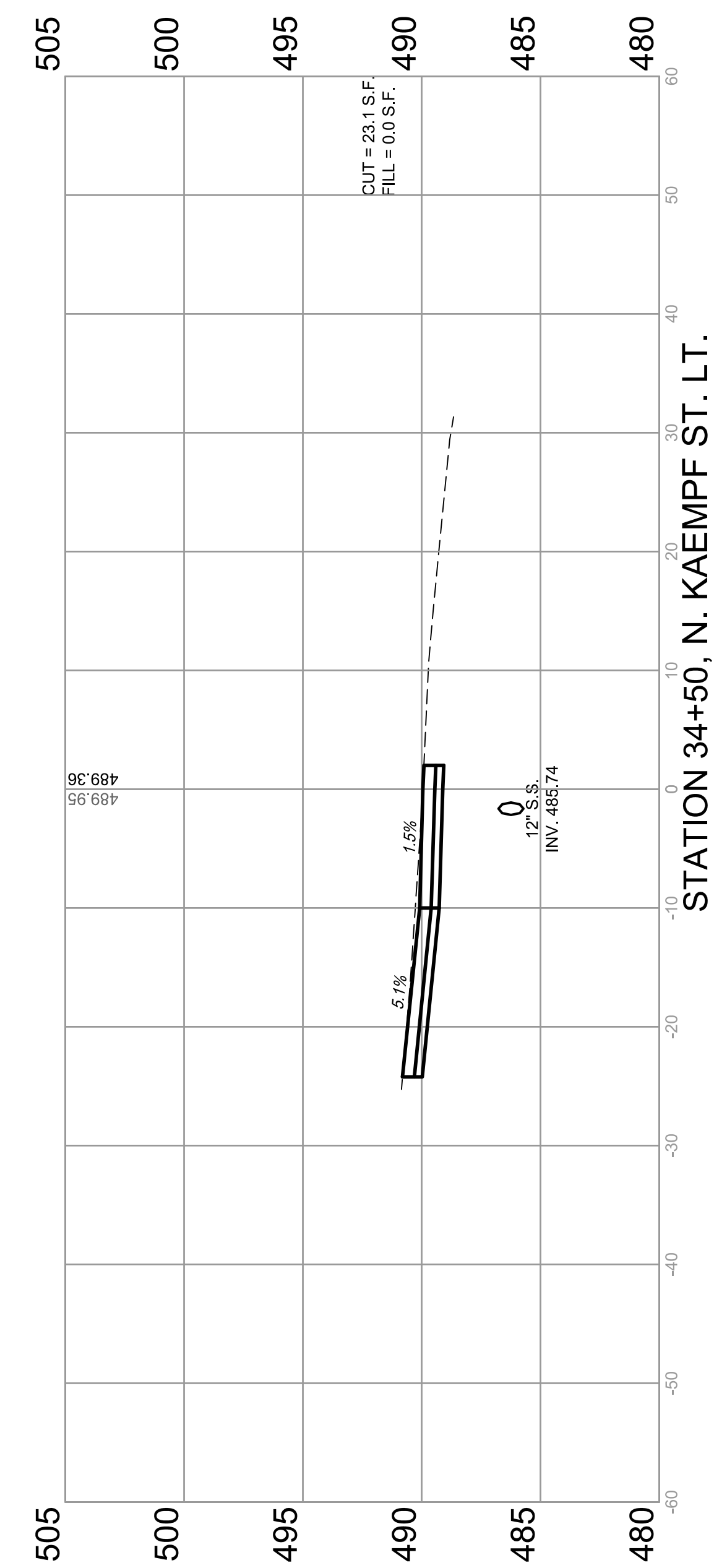
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MUN 1194	17-00054-00-BT	MONROE	46	42
STA. 34+00	TO STA. 35+00			
FEDERAL AID PROJECT		CONTRACT 97701		



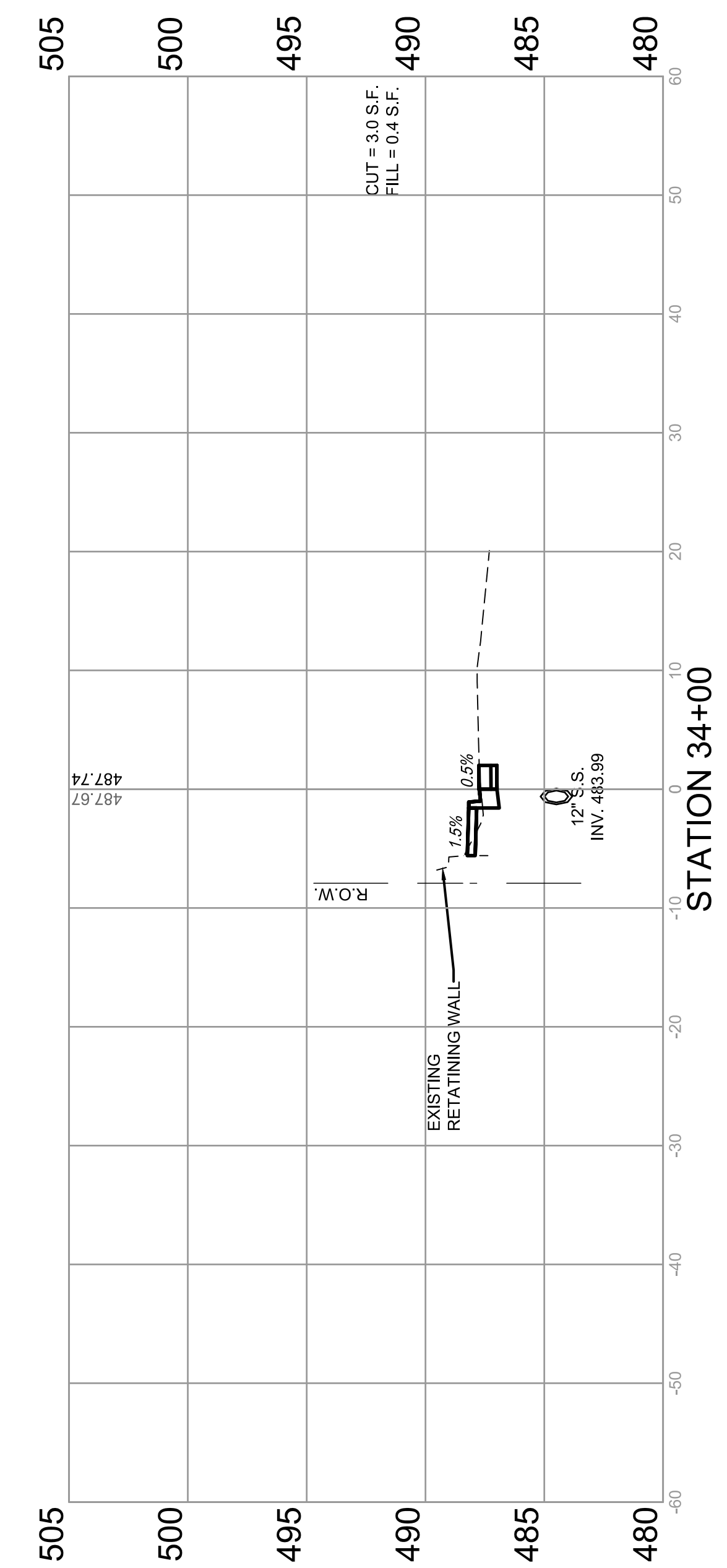
STATION 35+00



STATION 34+98, CONCRETE STEPS LT.



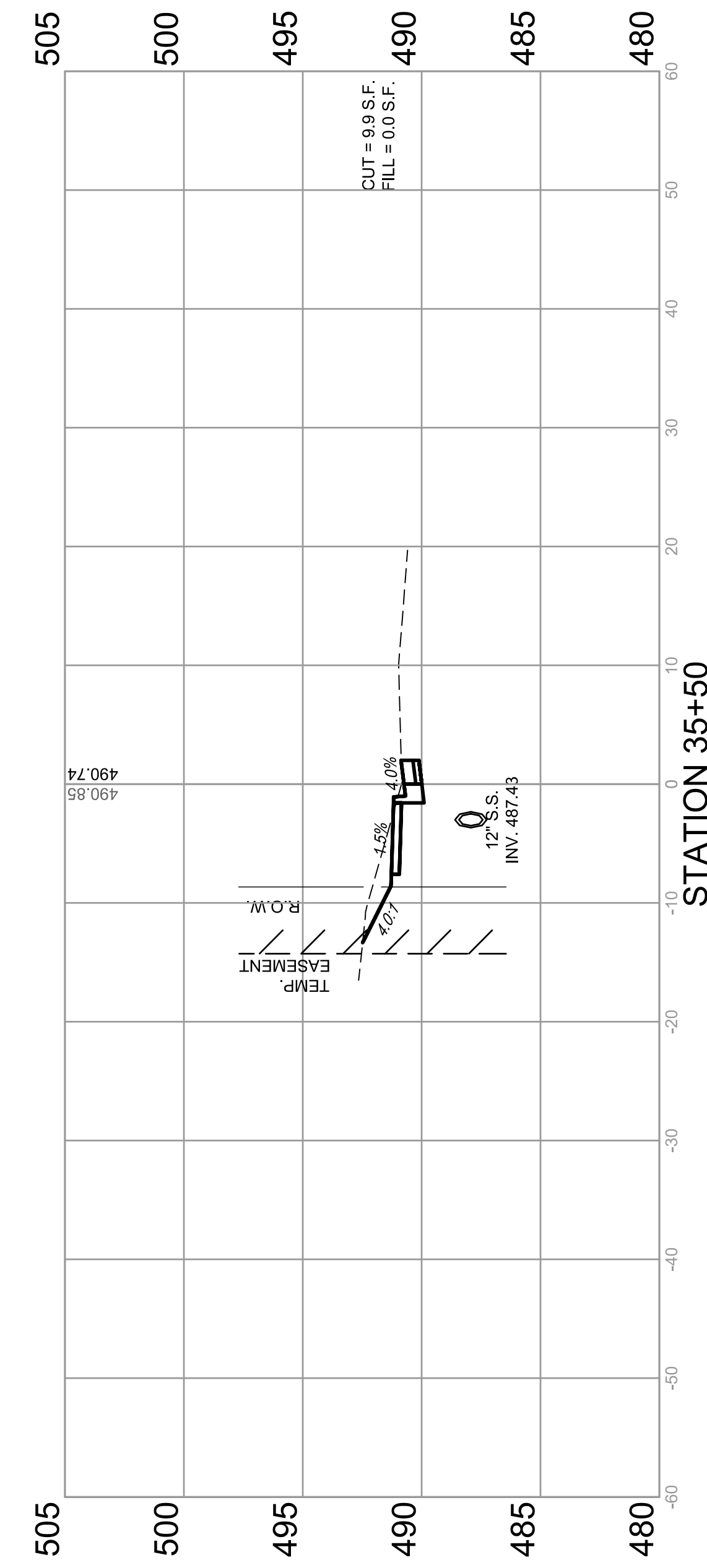
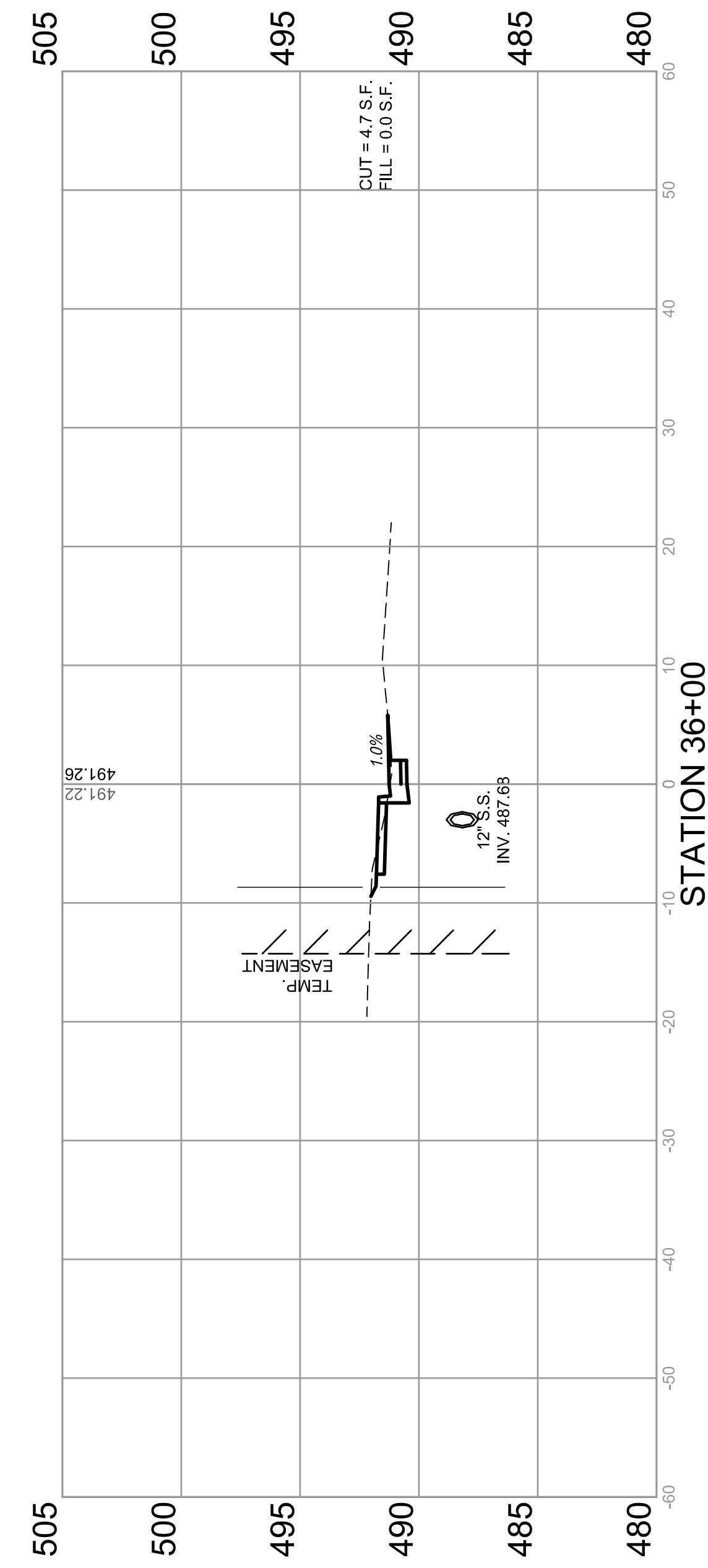
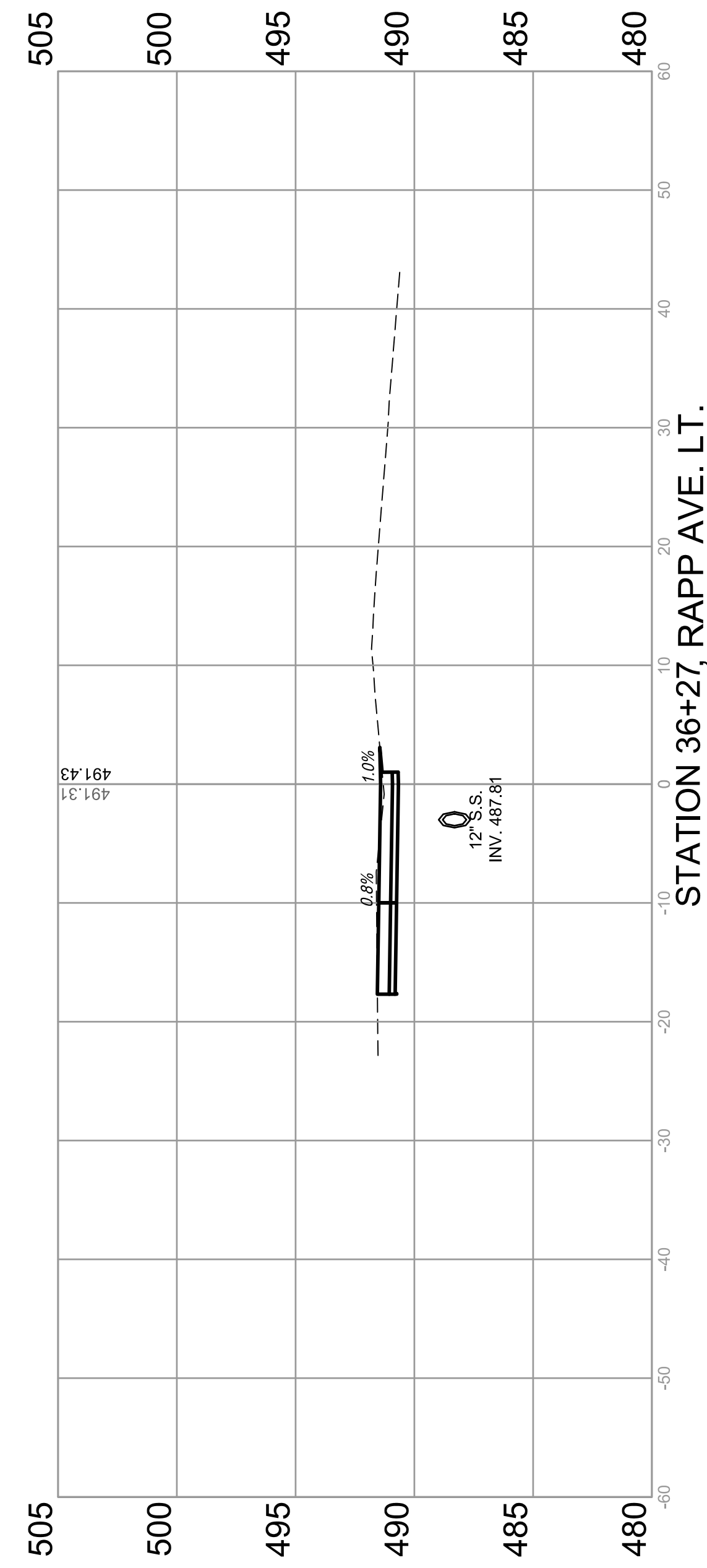
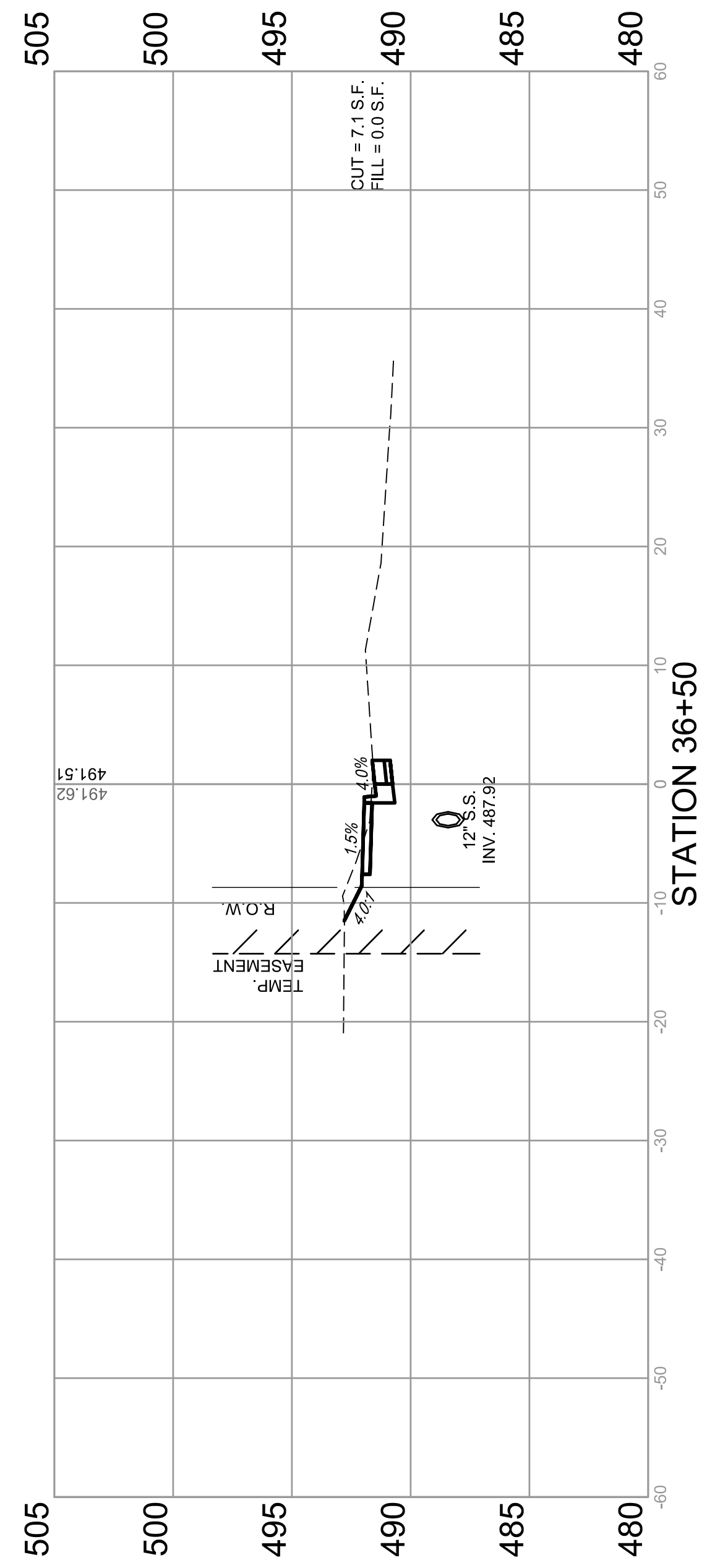
STATION 34+50, N. KAEMPFE ST. LT.



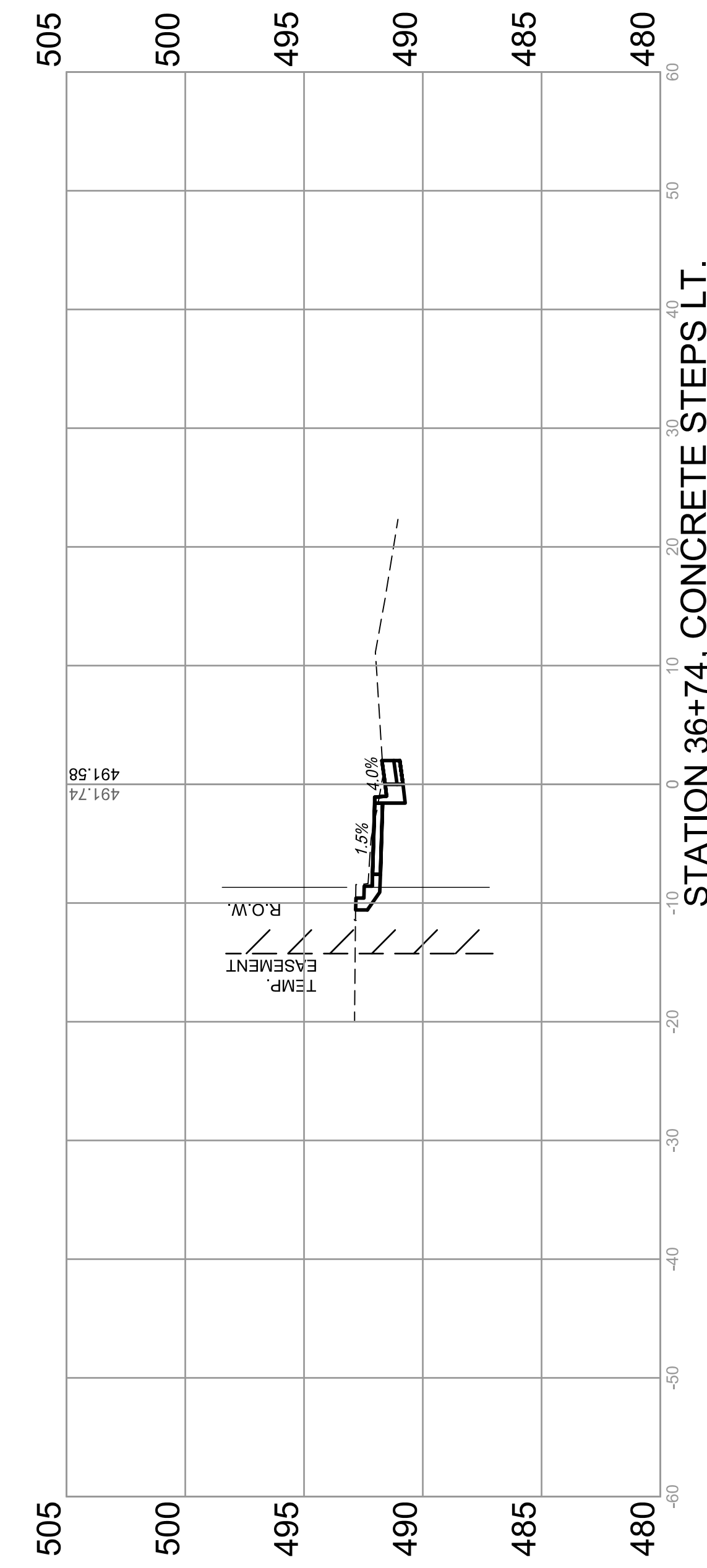
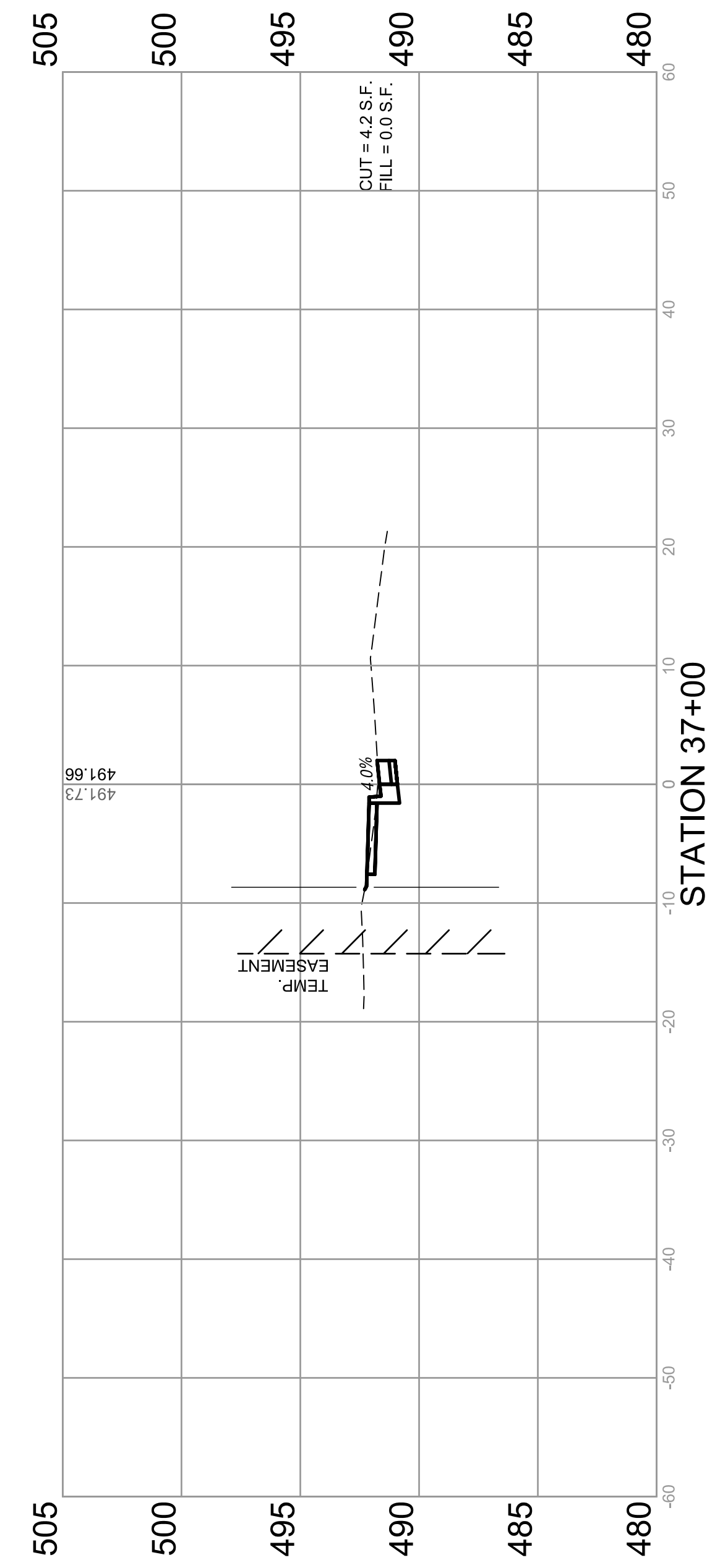
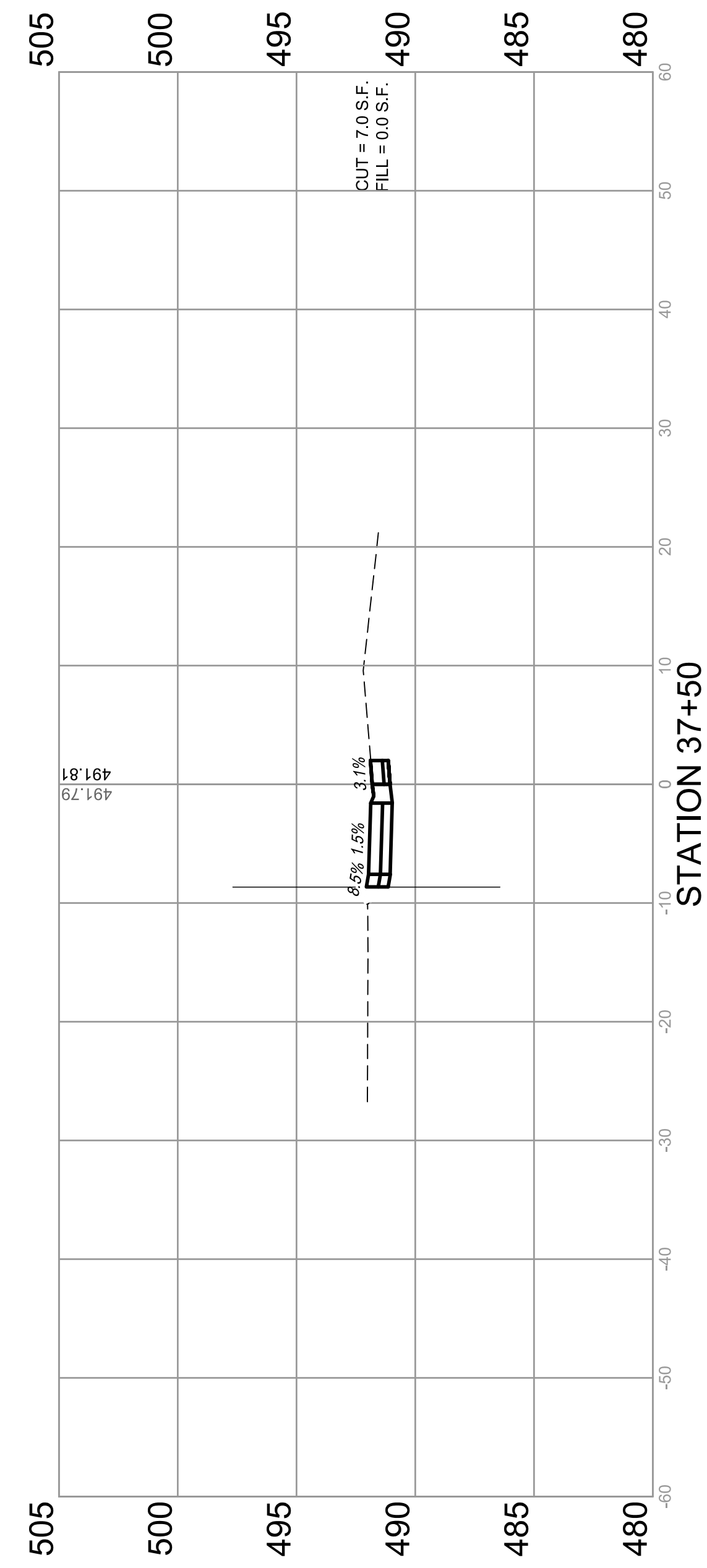
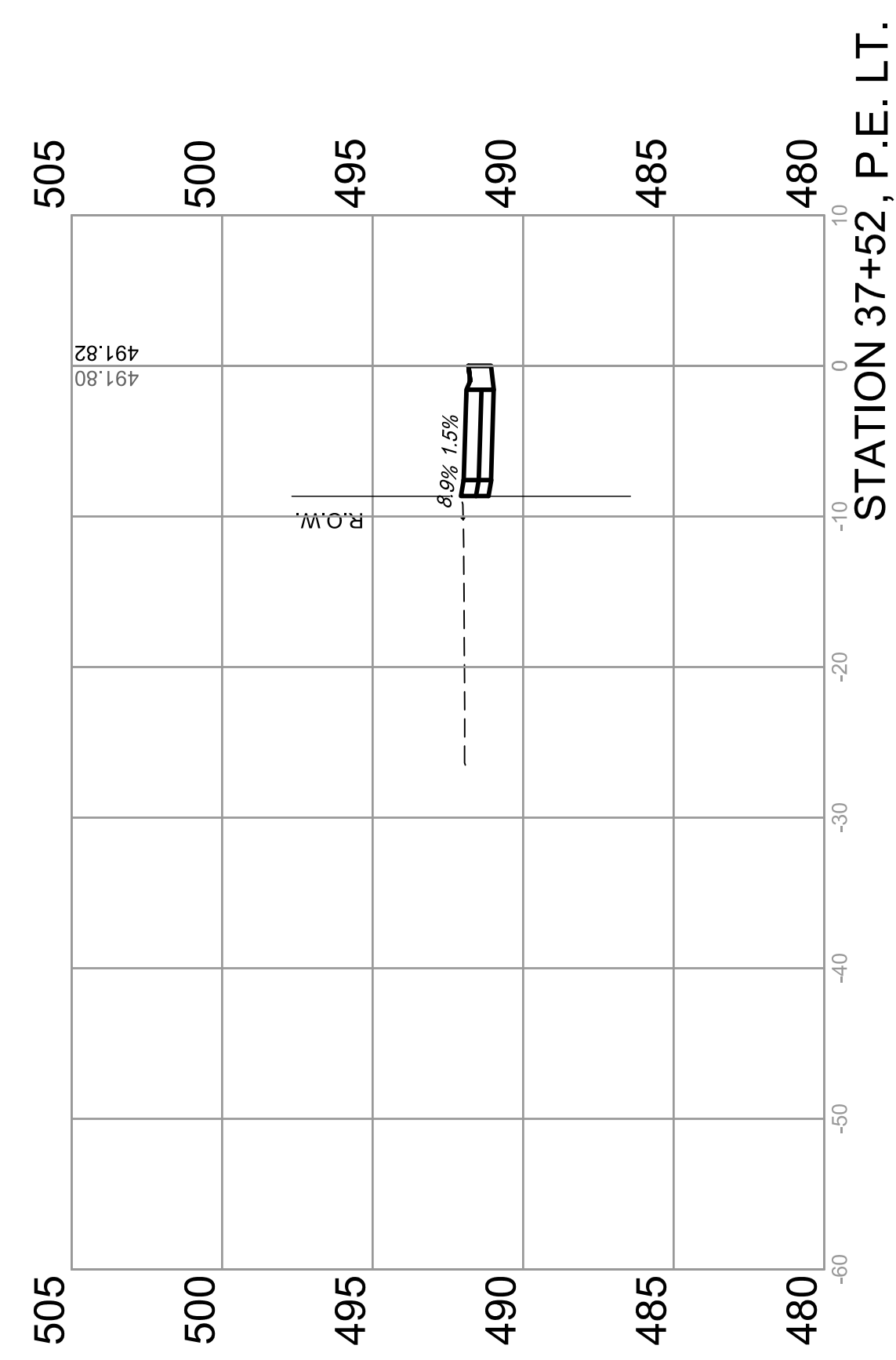
STATION 34+00

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F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
MUN 1194	17-00054-00-BT	MONROE	46	43
STA. 35+50	TO STA.	36+50		
FEDERAL AID PROJECT		CONTRACT 97701		

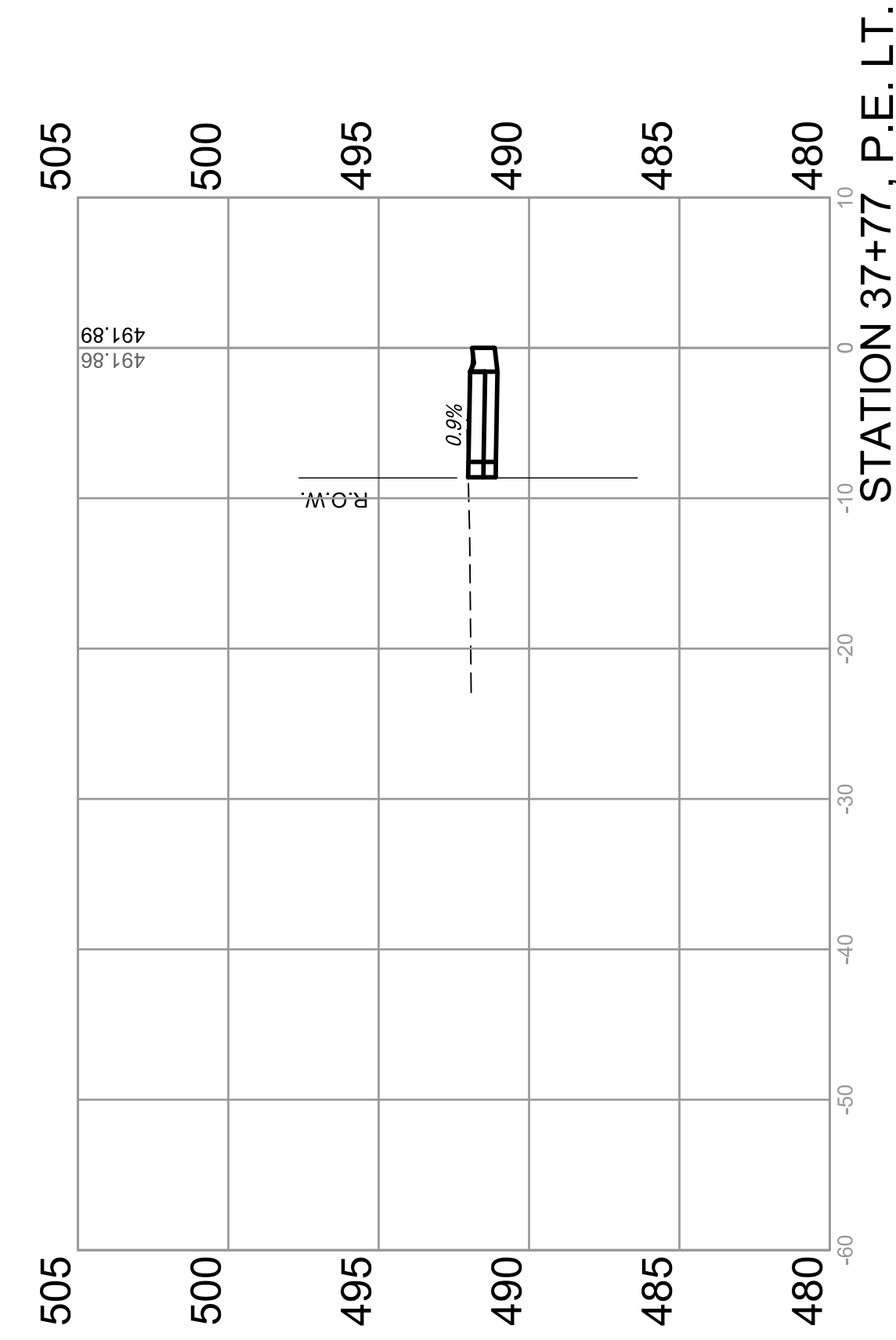
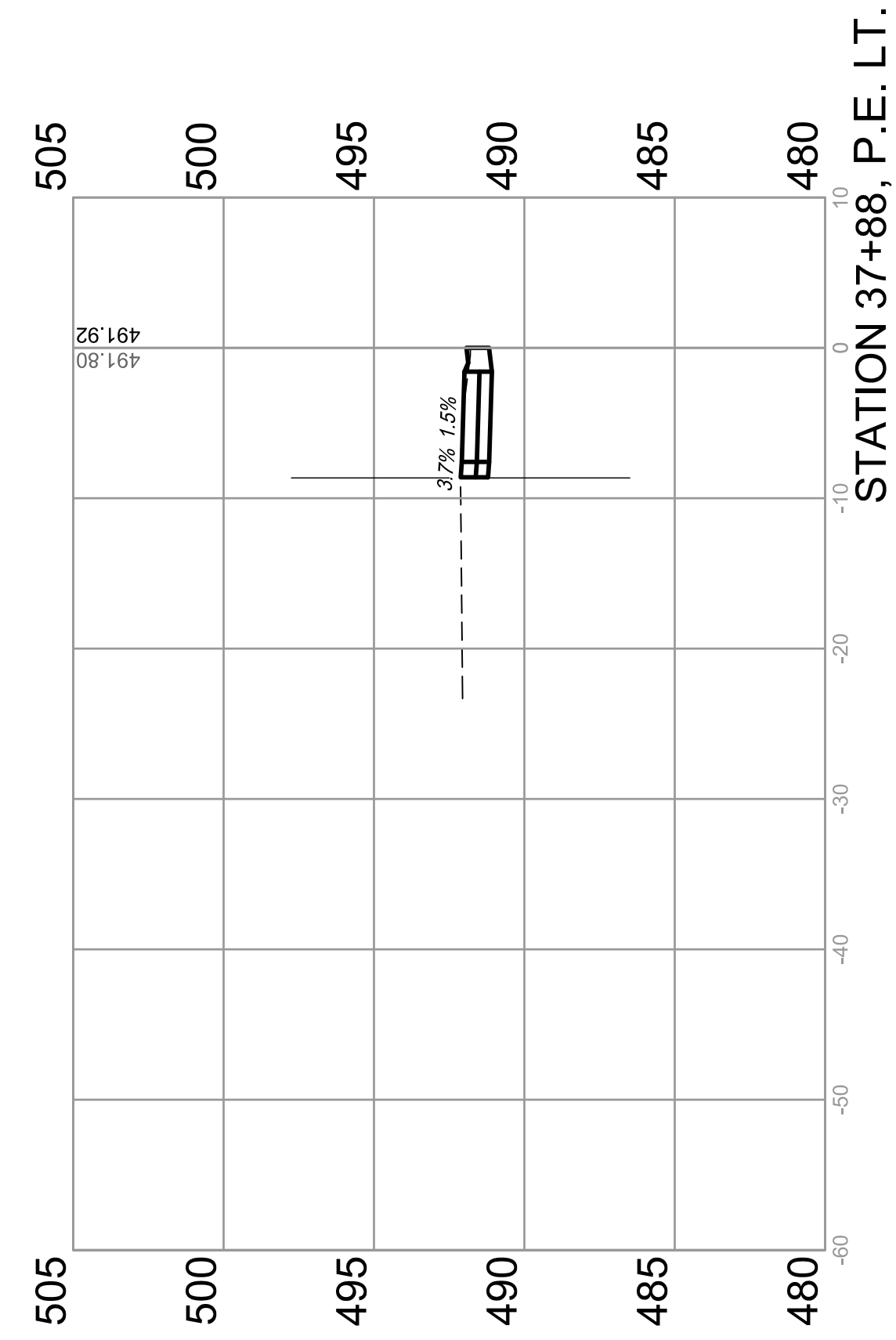
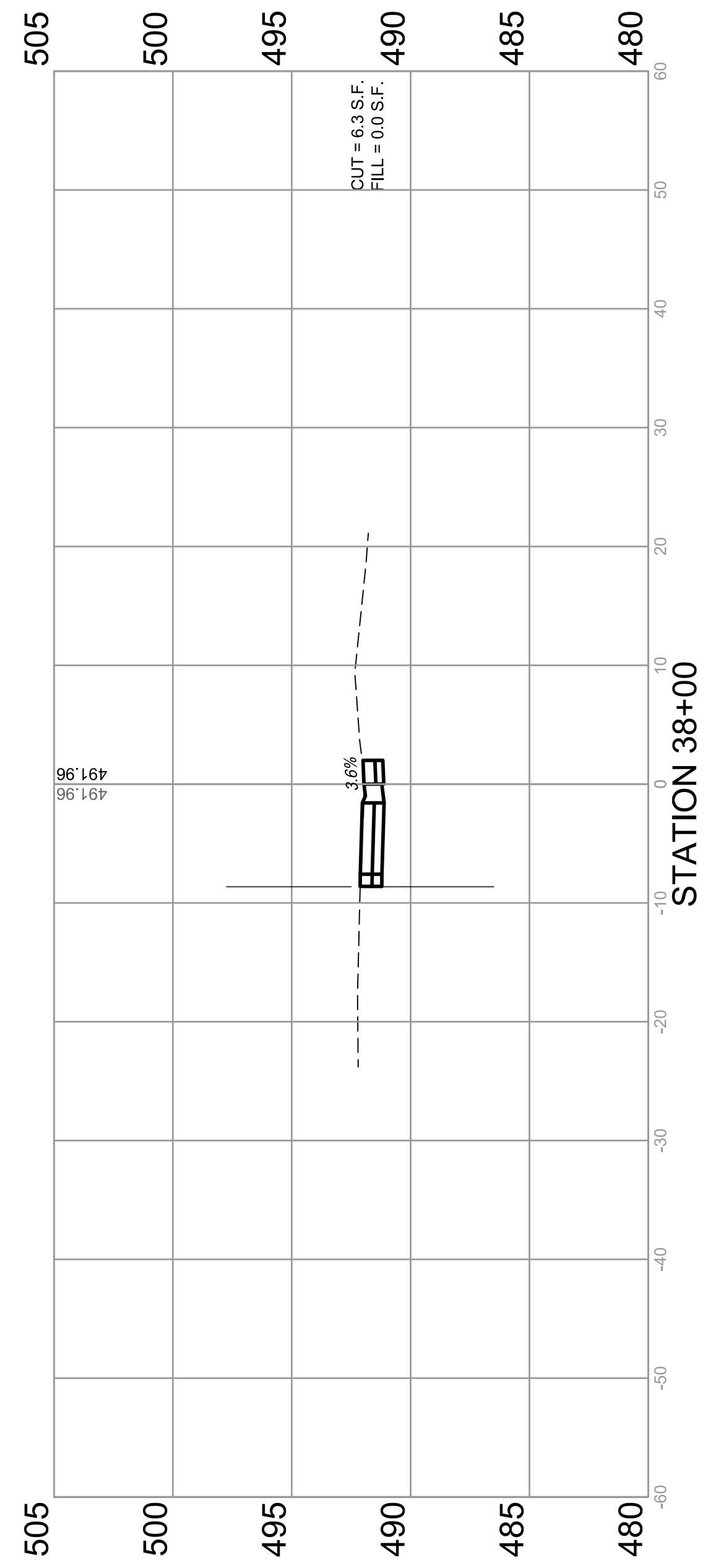
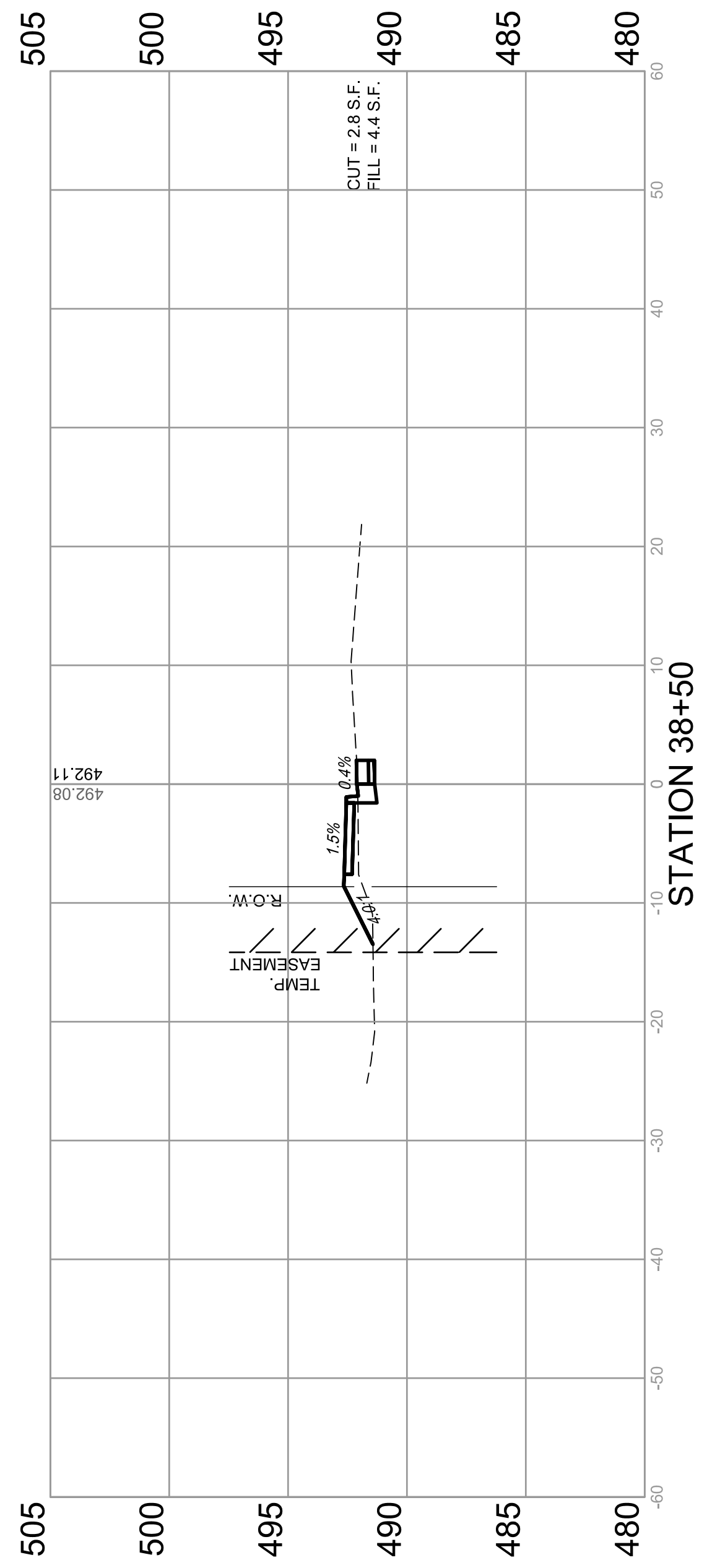


F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
MUN 1194	17-00054-00-BT	MONROE	46	44
STA. 36+74		TO STA. 37+52		
FEDERAL AID PROJECT		CONTRACT 97701		



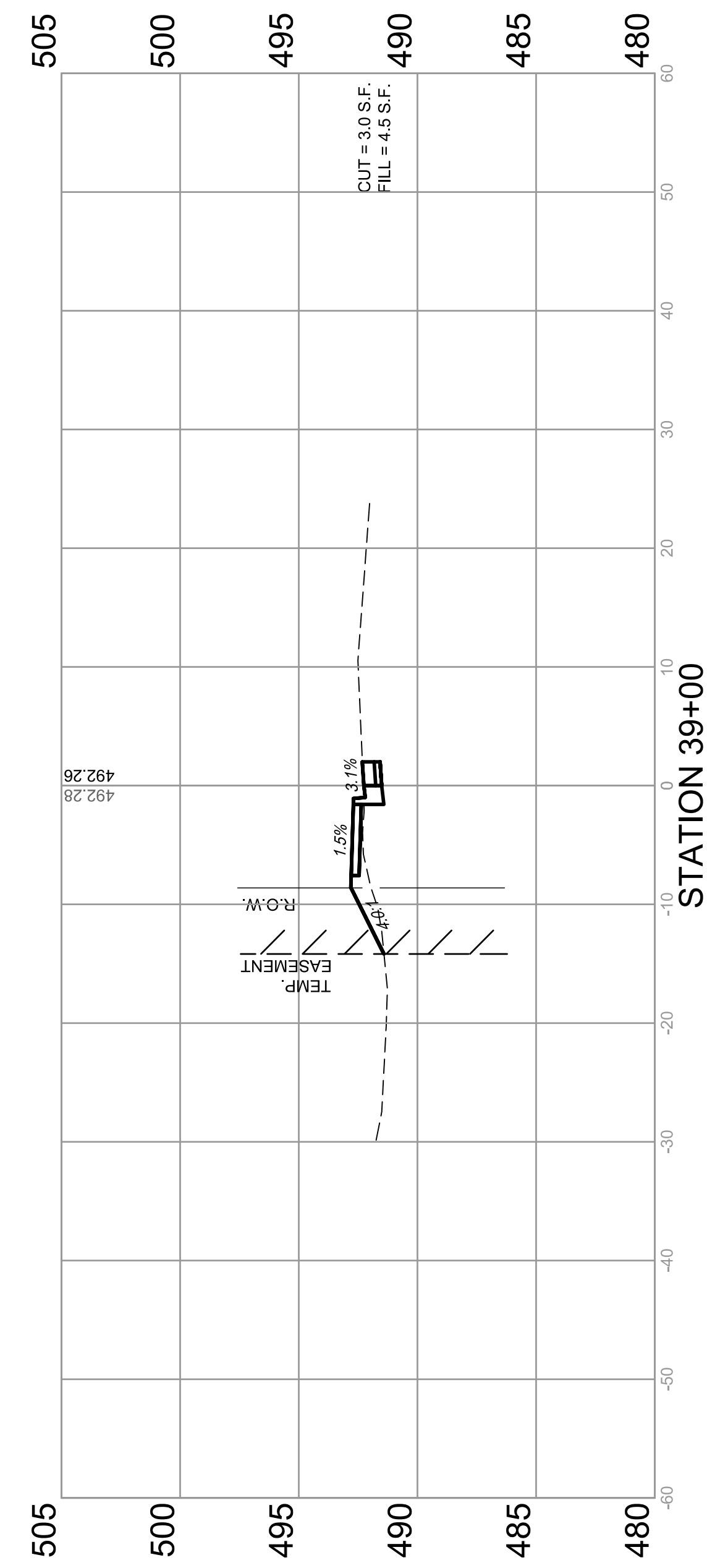
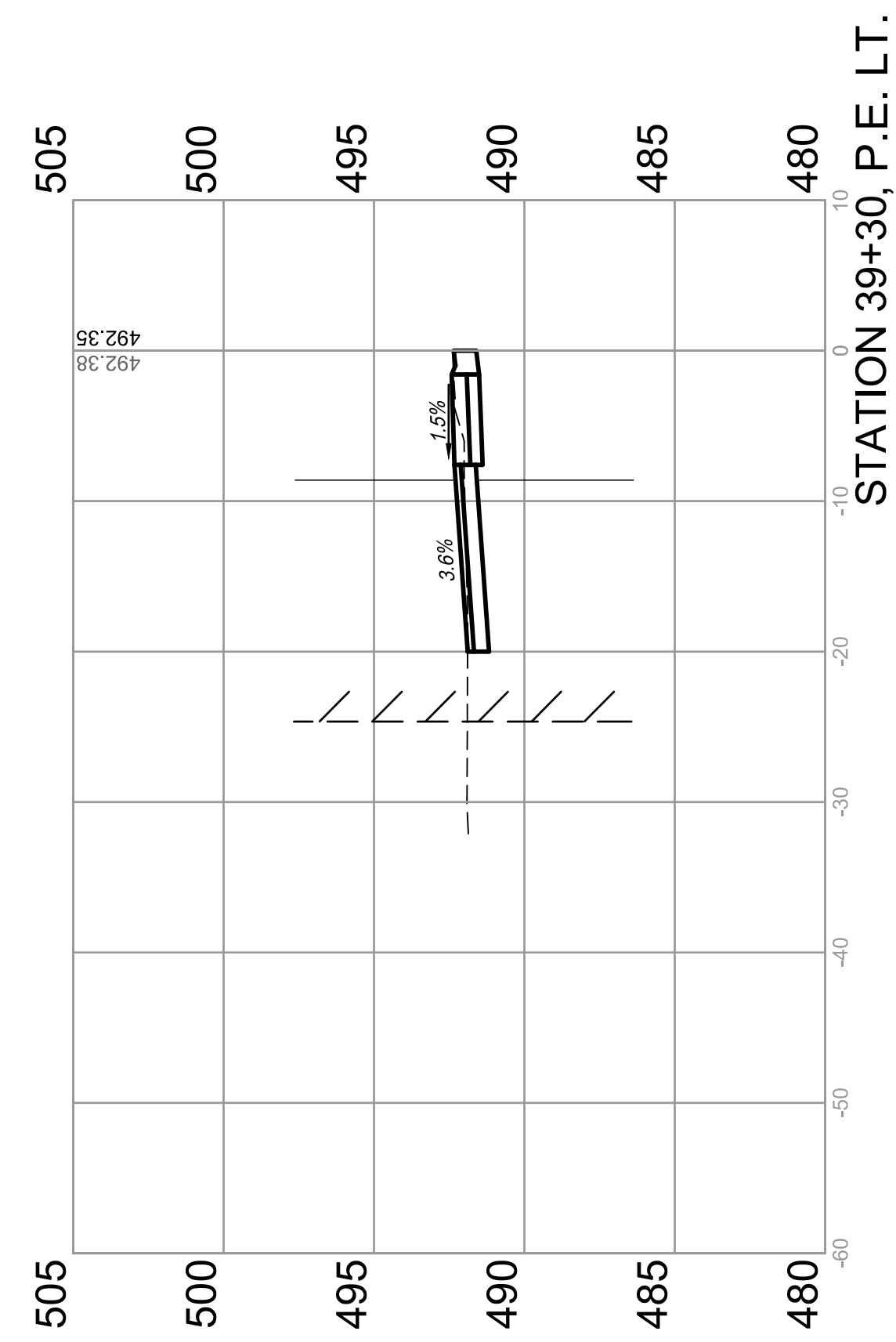
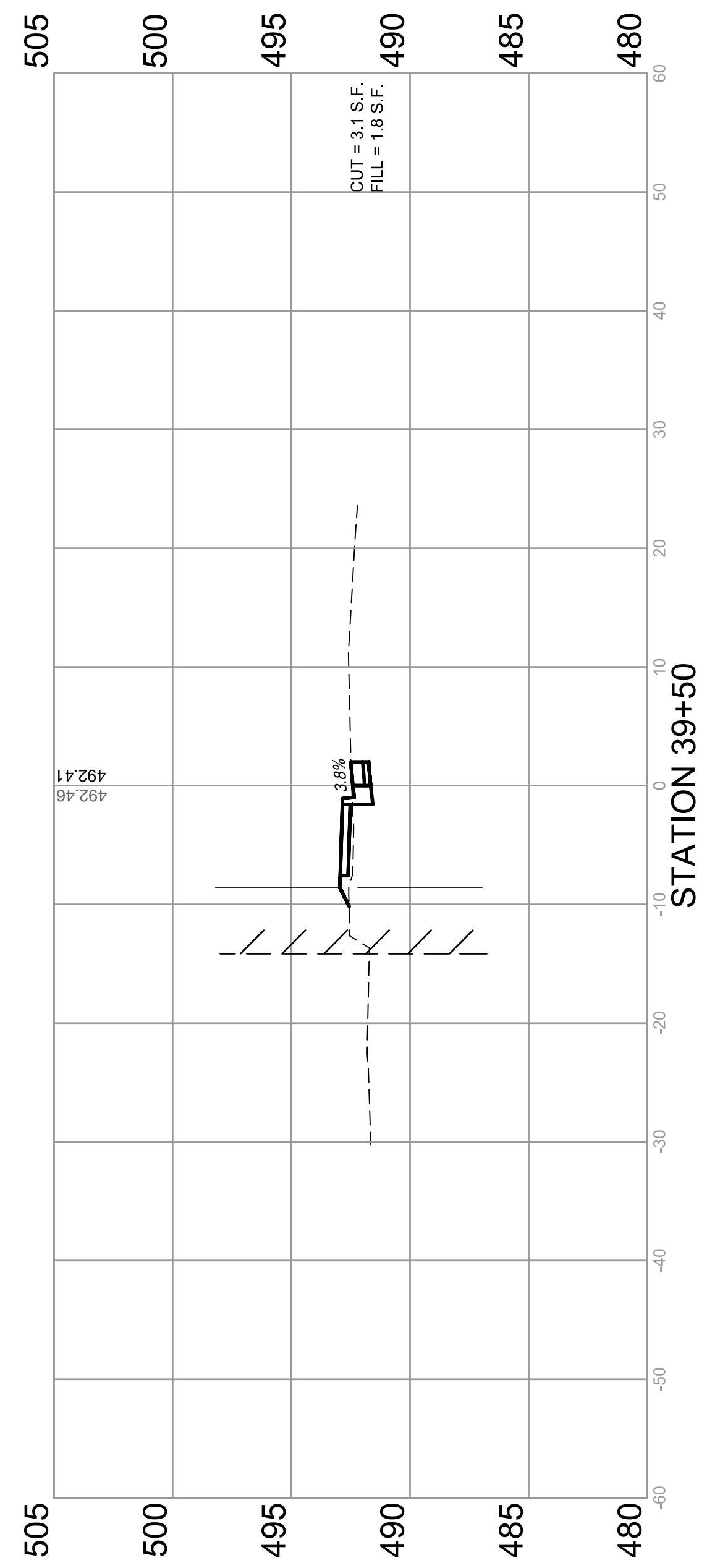
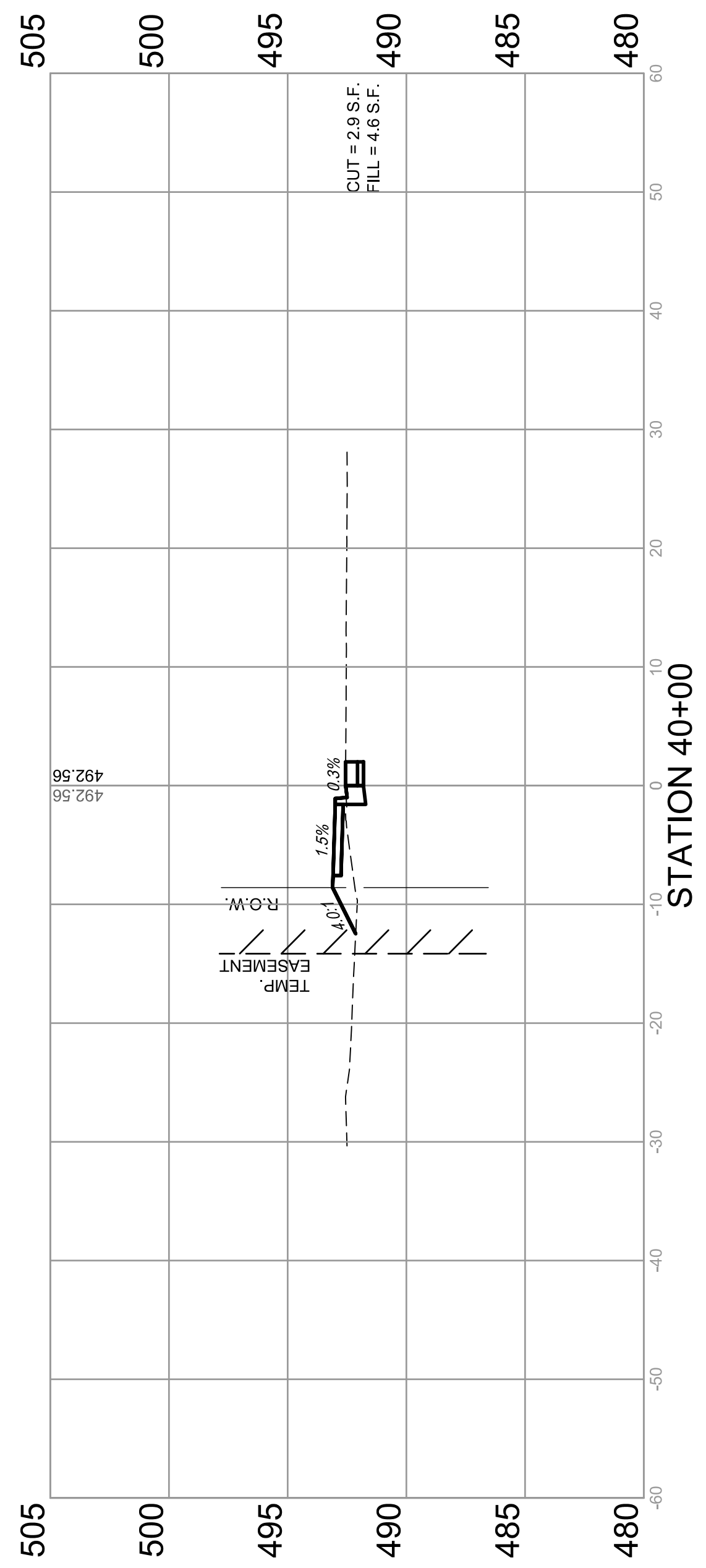
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F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
MUN 1194	17-00054-00-BT	MONROE	46	45
STA. 37+77		TO STA. 38+50		
FEDERAL AID PROJECT		CONTRACT 97701		



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F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
MUN 1194	17-00054-00-BT	MONROE	46	46
STA. 39+00	TO STA. 40+00			
FEDERAL AID PROJECT		CONTRACT 97701		



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 Plotted on: 12/6/2019 10:11 AM
 Plotted By: Ian Gunn