MUSCATINE CO PCC PAVEMENT – GRADE AND REPLACE STBG-SWAP-C070(62)--FG-70

LETTING DATE NOVEMBER 19, 2019

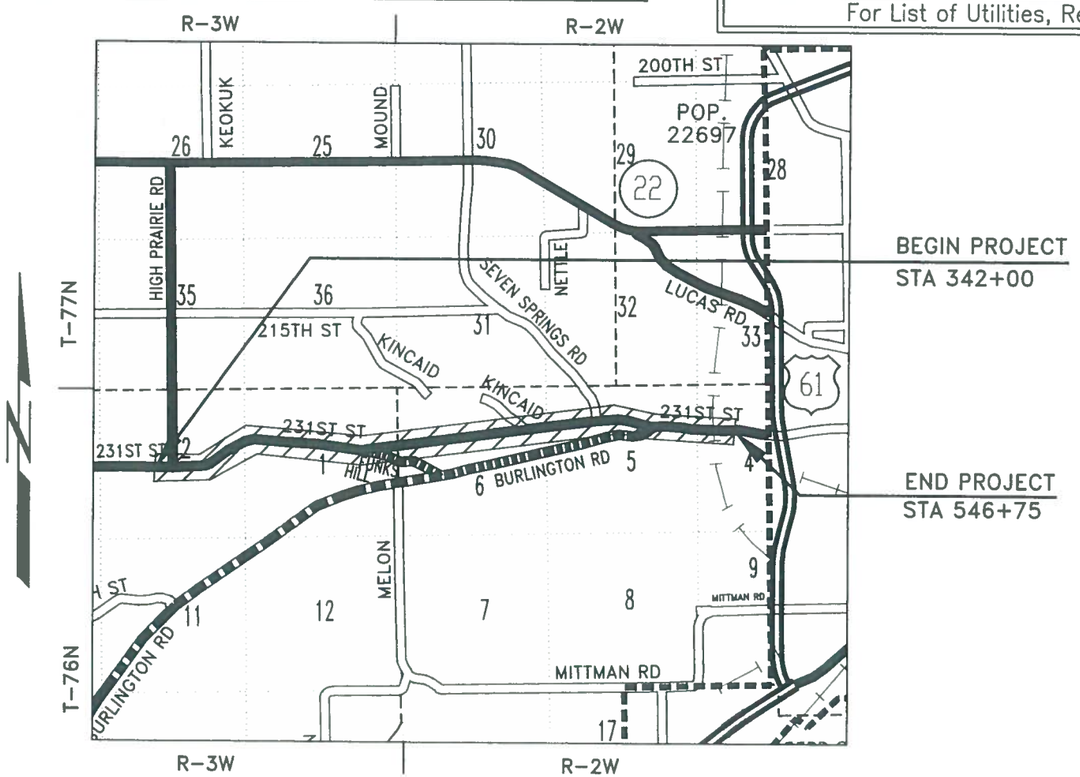
IOWA ONE CALL
1-800-292-8989 | 811
www.iowaonecall.com

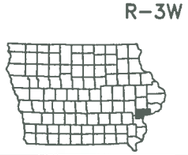
SECTION 404 PERMIT AND CONDITIONS

This project doesn't involve placing more than 0.1 acres of permanent fill into "Waters of the United States". Construct this project according to the requirements of U.S. Army Corps of Engineers Nationwide Permit 14, Fact Sheet No. 8(IA). The U.S. Army Corps of Engineers reserves the right to visit the site without prior notice.

STORM WATER PERMIT

This project is covered by the Iowa Department of Natural Resources NPDES General Permit No. 2. The contractor shall carry out the terms and conditions of General Permit No. 2 and the storm water pollution prevention plan which is a part of these contract documents. Refer to Section 2602 of the Standard Specifications for additional information.





Location Map Scale
0 0.5 1 1.5 miles

IOWA DEPARTMENT OF TRANSPORTATION
Highway Division

PLANS OF PROPOSED IMPROVEMENT ON THE

FARM–TO–MARKET SYSTEM
MUSCATINE COUNTY

PCC PAVEMENT – GRADE AND REPLACE

On 231st Street G28
From High Prairie Road to Lutheran Homes

Scales: As Noted

Refer to the Proposal Form for list of Applicable Specifications.

Value Engineering Saves. Refer to Article 1105.15 of the Specifications.

For Tabulation of Standard Road Plans, Refer to Sheet No. C4.

For List of Utilities, Refer to Sheet No. C11.

04-30-02 101-4

DESIGN DATA RURAL

2014	AADT	980–2420	V.P.D.
2038	AADT	1200–2900	V.P.D.
20	DHV		V.P.H.
TRUCKS		15	%
Total Design ESALs			

Approved By:
The Muscatine County Board of Supervisors

SHEET TOTAL 247

Project No. STBG–SWAP–C070(62)--FG–70

INDEX OF SHEETS

No.	Description
A1	TITLE SHEET
B1–B4	TYPICAL CROSS SECTIONS AND DESIGN DETAILS
C1–C11	ESTIMATE OF QUANTITIES, REFERENCE INFORMATION, AND TABULATIONS
D1–D7	PLAN AND PROFILE DETAIL SHEETS
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J1	TRAFFIC CONTROL DETAILS AND STAGING NOTES
J2–J5	DETOUR DETAILS
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M1	STORM SEWER TABULATION
S1–S2	RECREATIONAL TRAIL DETAILS AND TABULATION
T1–T10	EARTHWORK TEMPLATE QUANTITIES
W1–W187	CROSS SECTIONS

MILEAGE SUMMARY

Div.	Location	Lin. Ft.	Miles
	STA 342+00 TO STA 546+75 (231ST STREET G28)	20,475.0	3.878
	STA 0+13.50 TO STA 2+00 (HIGH PRAIRIE ROAD)	186.5	0.035
	STA 1000+09.69 TO STA 1000+93.35 (FUNKS HILL)	83.7	0.016
	STA 1005+59.34 TO STA 1006+54.70 (BURLINGTON)	95.4	0.018
	NET LENGTH OF PROJECT	20,840.6	3.947

INDEX OF SEALS

SHT. NO.	NAME	TYPE
A1	Keith White	Primary Signature Block

LICENSED PROFESSIONAL ENGINEER KEITH L. WHITE 9530 IOWA

I hereby certify that this engineering document was prepared by me or under my direct personal supervision and that I am a duly licensed Professional Engineer under the laws of the State of Iowa.

Signed: Date: 11/19/18

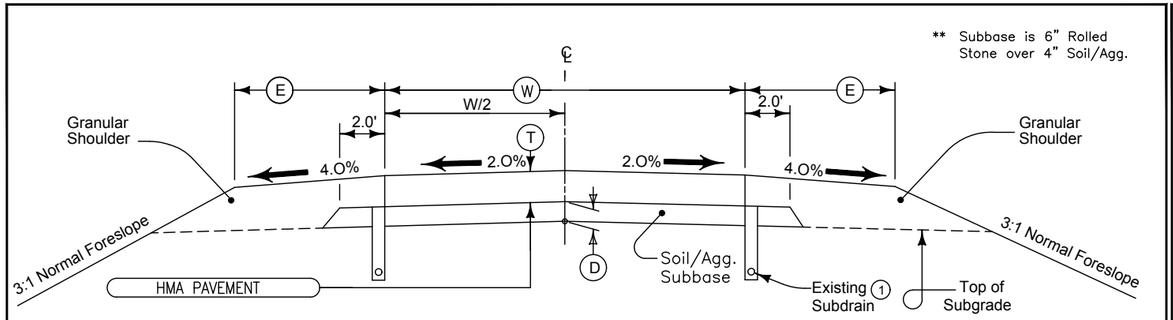
Keith L. White
Printed or Typed Name

My license renewal date is December 31, 2019.

Pages or sheets covered by this seal: ALL PAGES

FILE NO.	NO.	ENGLISH	DESIGN TEAM	WHITE\MICHAEL\HORESOWSKY	MUSCATINE COUNTY	PROJECT NUMBER	STBG-SWAP-C070(62)--FG-70	SHEET NUMBER	A1	REVISED

M:\PCC Paving STP-S-C070(62)--5E-70 231st St-G28 Dwg\A Plan Sheet.dwg A1 11 14 2018 11 56 24 AM

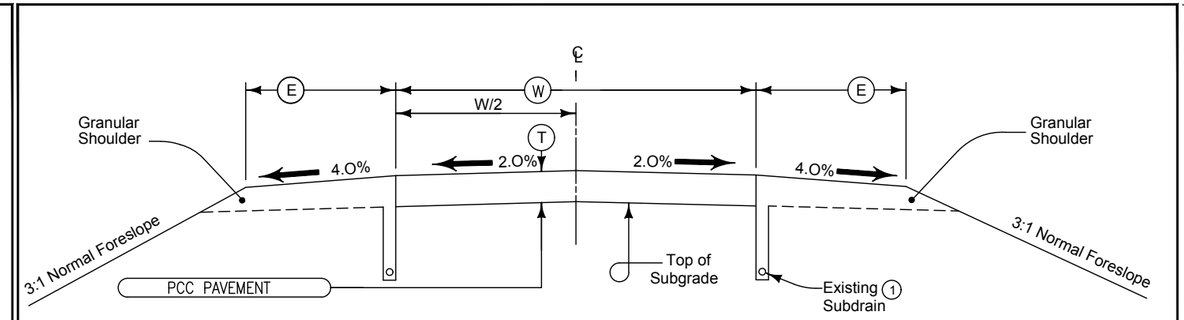


Note:
Normal sections shown may be appropriately modified for areas specifically designated by the Engineer such as inter-**sections or superelevated curves.**

(1) Existing Subdrain was placed 36" below top of HMA paving 11' each way of centerline.

EXISTING CROSS SECTION, 231st STREET, HMA PAVEMENT

LOCATION			T Inches	D Inches	E Feet	W Feet	SHOULDER TYPE
ROAD IDENTIFICATION	STATION TO STATION						
231st STREET G28	338+00	343+00	4.5	**10	8	22	GRANULAR
231st STREET G28	343+00	350+00	6	**10	8	22	GRANULAR
231st STREET G28	509+00	512+75	7.5	4	8	22	GRANULAR

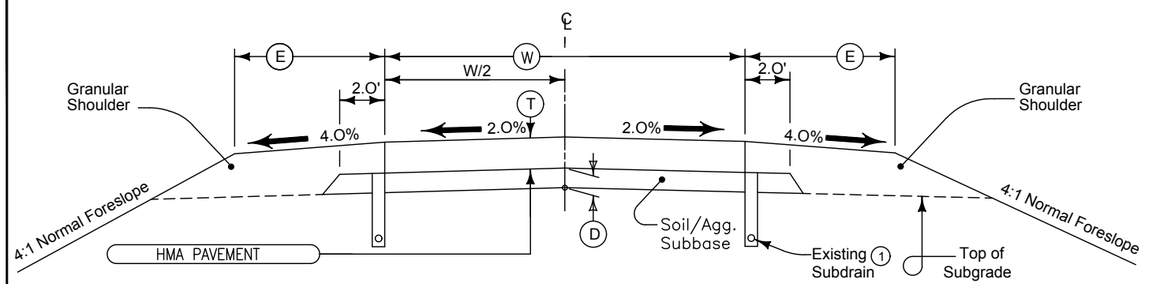


Note:
Normal sections shown may be appropriately modified for areas specifically designated by the Engineer such as inter-**sections or superelevated curves.**

(1) Existing Subdrain was placed 36" below top of PCC paving 11' each way of centerline.

EXISTING CROSS SECTION, 231st STREET, PCC PAVEMENT

LOCATION			T Inches	D Inches	E Feet	W Feet	SHOULDER TYPE
ROAD IDENTIFICATION	STATION TO STATION						
231st STREET G28	512+75	522+00	8	N/A	8	22	GRANULAR

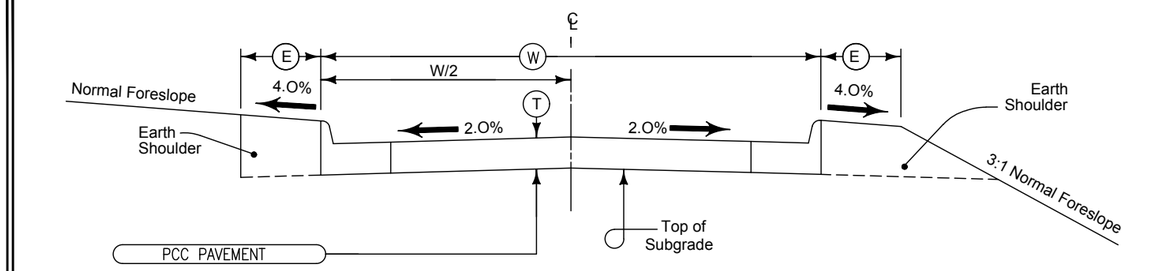


Note:
Normal sections shown may be appropriately modified for areas specifically designated by the Engineer such as inter-**sections or superelevated curves.**

(1) Existing Subdrain was placed 36" below top of HMA paving 11' each way of centerline.

EXISTING CROSS SECTION, 231st STREET, HMA PAVEMENT

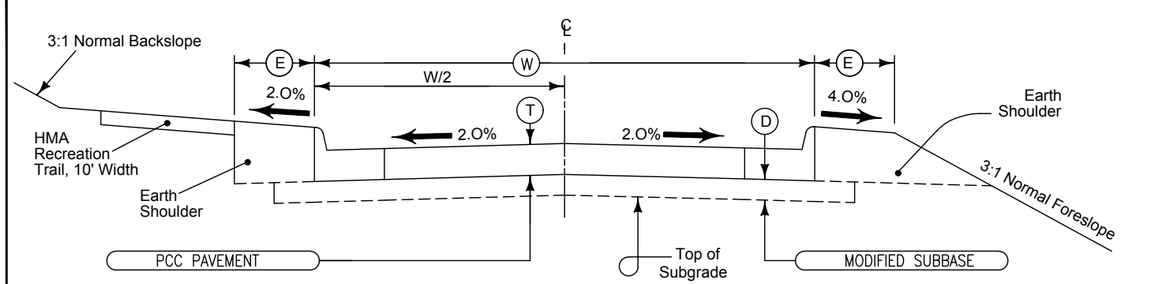
LOCATION			T Inches	D Inches	E Feet	W Feet	SHOULDER TYPE
ROAD IDENTIFICATION	STATION TO STATION						
231st STREET G28	350+00	458+00	9	4	8	22	GRANULAR
231st STREET G28	458+00	509+00	7.5	4	8	22	GRANULAR



Note:
Normal sections shown may be appropriately modified for areas specifically designated by the Engineer such as inter-**sections or superelevated curves.**

EXISTING CROSS SECTION, 231st STREET, PCC PAVEMENT WITH 3.5' CURB & GUTTER

LOCATION			T Inches	D Inches	E Feet	W Feet	SHOULDER TYPE
ROAD IDENTIFICATION	STATION TO STATION						
231st STREET G28	522+00	545+75	8	N/A	3	31	EARTH



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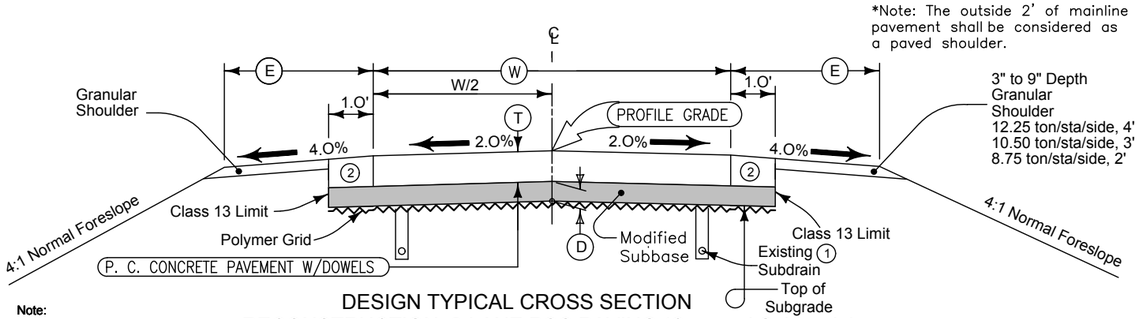
EXISTING CROSS SECTION, 231st STREET, PCC PAVEMENT WITH 3.5' CURB & GUTTER

LOCATION			T Inches	D Inches	E Feet	W Feet	SHOULDER TYPE
ROAD IDENTIFICATION	STATION TO STATION						
231st STREET G28	545+75	546+75	9	6	6	31	EARTH

*Note: The outside 2' of mainline pavement shall be considered as a paved shoulder.



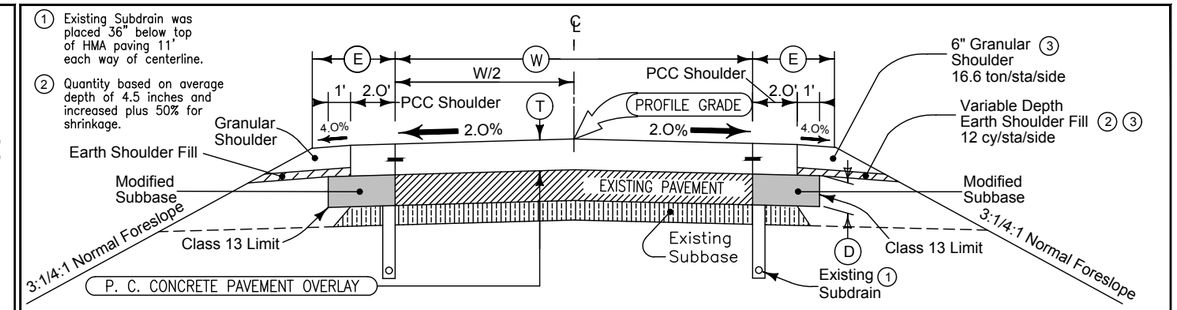
DESIGN TYPICAL CROSS SECTION
RECONSTRUCTION, 2-LANE PCC PAVING (Crowned Subgrade)

Note:
Normal sections shown may be appropriately modified for areas specifically designated by the Engineer such as inter-**sections or superelevated curves.**

1. Existing Subdrain was placed 36" below top of HMA paving 11' each way of centerline.
2. Excavation is included in template quantities. See cross sections.

LOCATION			T	D	E	W	SHOULDER TYPE
ROAD IDENTIFICATION	STATION TO STATION		Inches	Inches	Feet	Feet	
231st Street G28	417+00	454+50	9	10	4	26	TYPE B, GRANULAR
High Prairie Road	0+13.50	2+00	9	10	3	26	TYPE B, GRANULAR
Funks Hill Road	1000+09.69	1000+93.35	9	10	2 & 4	24	TYPE B, GRANULAR
Burlington Road	1005+59.34	1006+54.70	9	10	3	24	TYPE B, GRANULAR

1. Existing Subdrain was placed 36" below top of HMA paving 11' each way of centerline.
2. Quantity based on average depth of 4.5 inches and increased plus 50% for shrinkage.



3. This detail doesn't apply in areas requiring shoulder widening. See other detail(s) for locations.

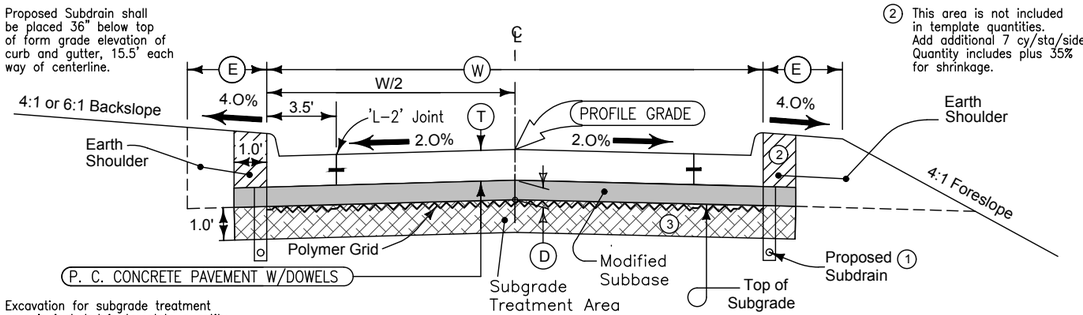
DESIGN TYPICAL CROSS SECTION
WHITETOPPING OVERLAY, 2-LANE PCC PAVING, WITH 2' PCC SHOULDER

Note:
Normal sections shown may be appropriately modified for areas specifically designated by the Engineer such as inter-**sections or superelevated curves.**

LOCATION			T	D	E	W	SHOULDER TYPE
ROAD IDENTIFICATION	STATION TO STATION		Inches	Inches	Feet	Feet	
231st Street G28	342+00	417+00	8	6	5	22	PCC & TYPE B, GRANULAR
231st Street G28	454+50	497+50	8	6	5	22	PCC & TYPE B, GRANULAR

1. Proposed Subdrain shall be placed 36" below top of form grade elevation of curb and gutter, 15.5' each way of centerline.

2. This area is not included in template quantities. Add additional 7 cy/sta/side. Quantity includes plus 35% for shrinkage.

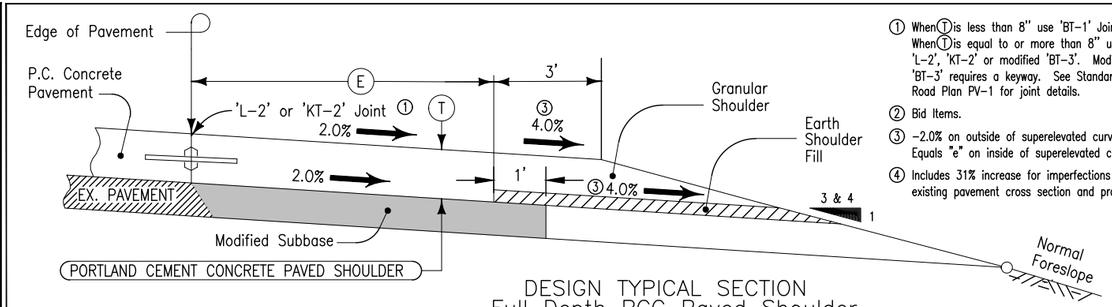


3. Excavation for subgrade treatment area is included in template quantity. Add 165 cy/sta to fill quantity. Quantity includes plus 35% for shrinkage.

DESIGN TYPICAL CROSS SECTION
RECONSTRUCTION, 2-LANE PCC PAVING, WITH 3.5' CURB & GUTTER

Note:
Normal sections shown may be appropriately modified for areas specifically designated by the Engineer such as inter-**sections or superelevated curves.**

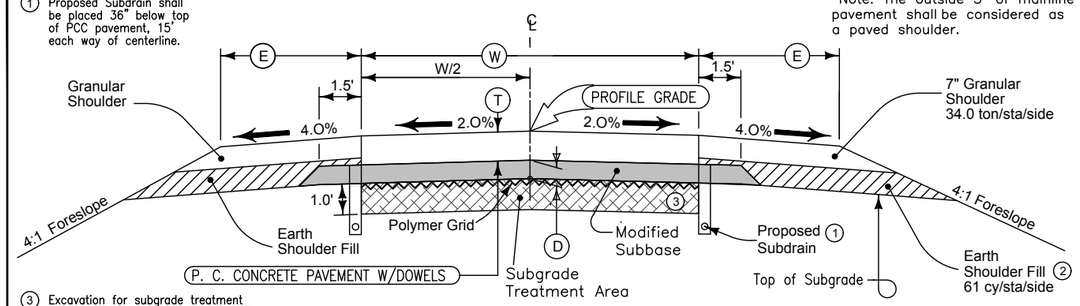
LOCATION			T	D	E	W	SHOULDER TYPE
ROAD IDENTIFICATION	STATION TO STATION		Inches	Inches	Feet	Feet	
231st STREET G28	522+00	546+75	9	10	6	31	EARTH



1. When T is less than 8" use 'BT-1' Joint. When T is equal to or more than 8" use 'L-2', 'KT-2' or modified 'BT-3'. Modified 'BT-3' requires a keyway. See Standard Road Plan PV-1 for joint details.
2. Bid Items.
3. -2.0% on outside of superelevated curves. Equals "e" on inside of superelevated curves.
4. Includes 31% increase for imperfections in existing pavement cross section and profile.

DESIGN TYPICAL SECTION
Full Depth PCC Paved Shoulder

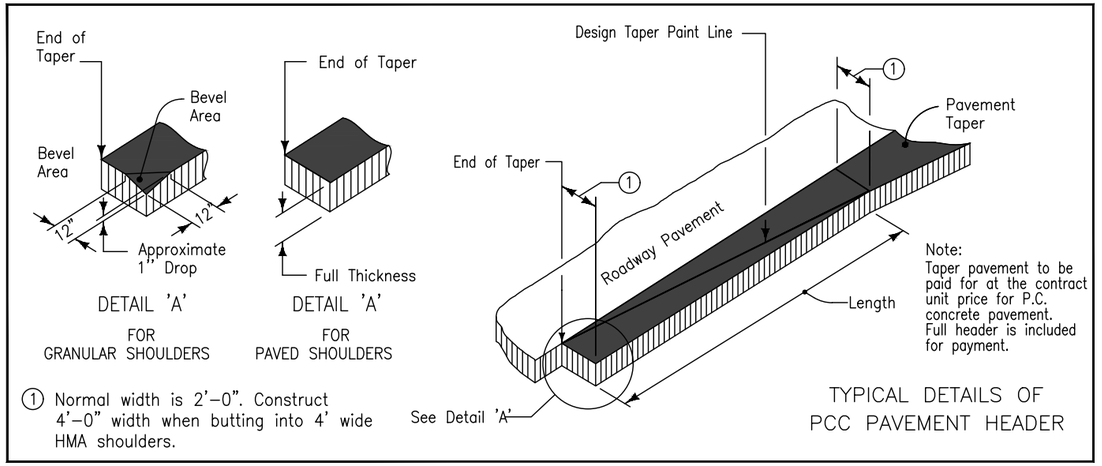
LOCATION				DIMENSIONS		QUANTITIES			
ROAD IDENTIFICATION	STATION TO STATION		SIDE	T Inches	E Feet	SURFACE AREA Sq. Yds. 2	VOLUME 2 4 Cu. Yds.	MODIFIED SUBBASE 2 Cu. Yds.	CLASS 13 EXCAV. 2 Cu. Yds.
231st Street G28	342+00	417+00	LT	8	2	1,666.7	488	417	417
231st Street G28	342+00	417+00	RT	8	2	1,666.7	488	417	417
231st Street G28	454+50	497+50	LT	8	2	955.6	280	239	239
231st Street G28	454+50	497+50	RT	8	2	955.6	280	239	239
					TOTALS	5,244.6	1,536	1,312	1,312



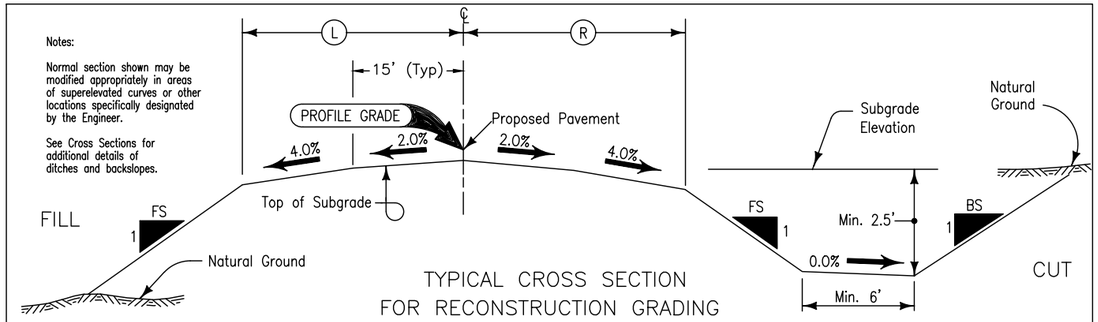
DESIGN TYPICAL CROSS SECTION
RECONSTRUCTION, 2-LANE PCC PAVING (Crowned Subgrade)

Note:
Normal sections shown may be appropriately modified for areas specifically designated by the Engineer such as inter-**sections or superelevated curves.**

LOCATION			T Inches	D Inches	E Feet	W Feet	SHOULDER TYPE
ROAD IDENTIFICATION	STATION TO STATION						
231st Street G28	497+50	522+00	9	10	7	30	TYPE B, GRANULAR

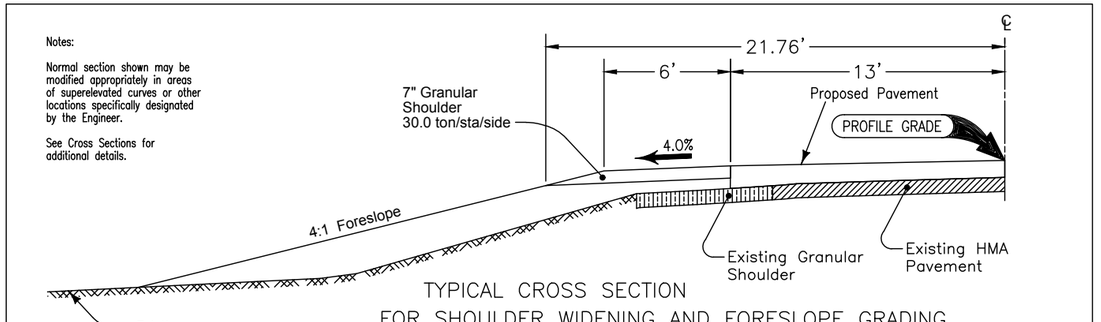


TYPICAL DETAILS OF PCC PAVEMENT HEADER



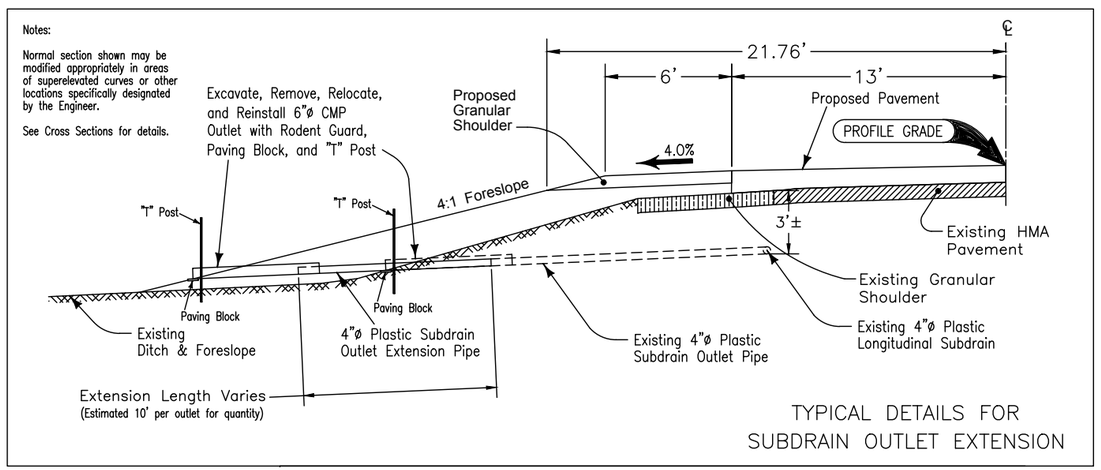
TYPICAL CROSS SECTION FOR RECONSTRUCTION GRADING

LOCATION			DIMENSIONS		SLOPES	
ROAD IDENTIFICATION	STATION TO STATION		L	R	FS	BS
231st Street G28	497+50	522+00	29.52'	29.52'	4	4



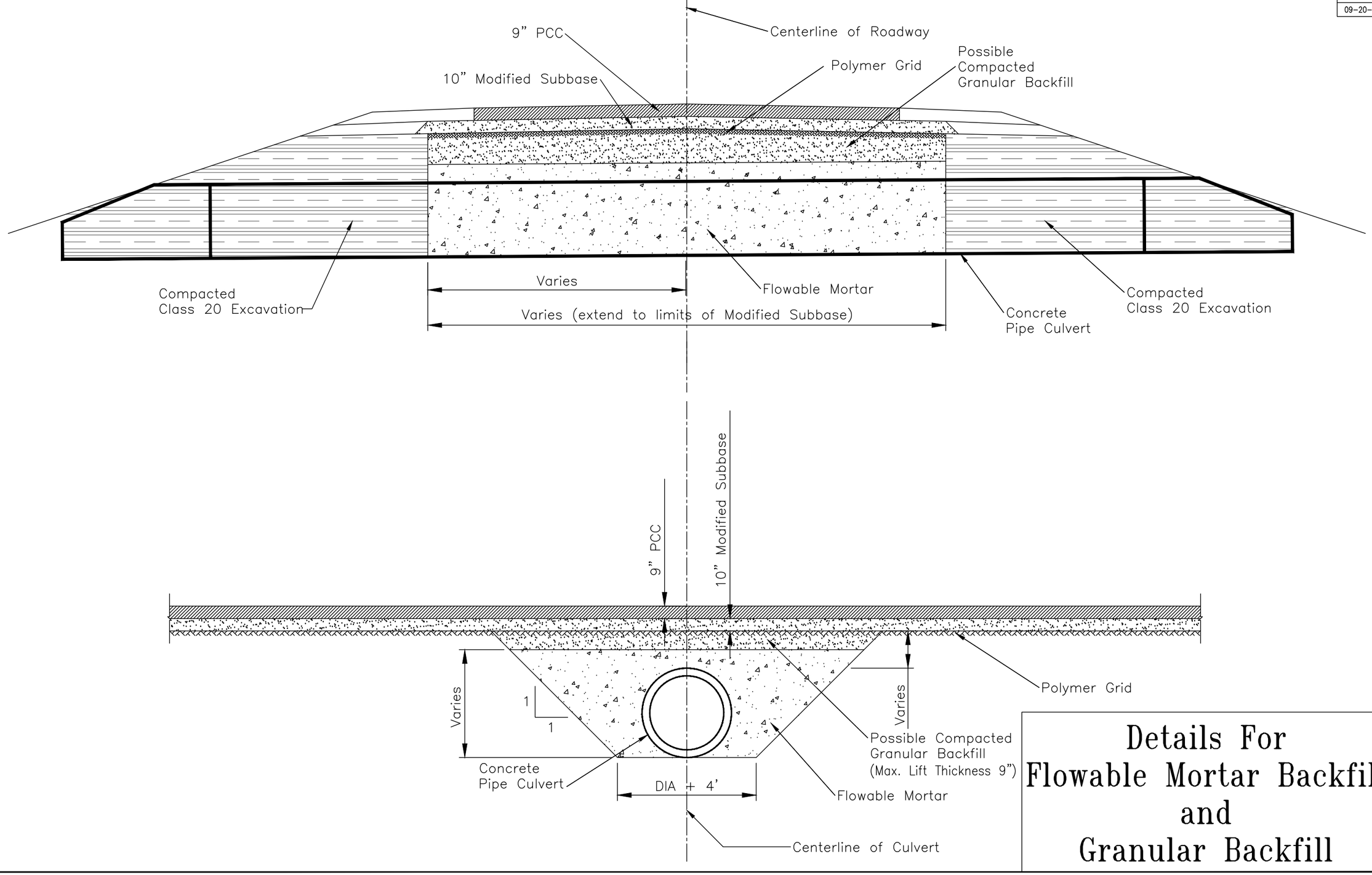
TYPICAL CROSS SECTION FOR SHOULDER WIDENING AND FORESLOPE GRADING

LOCATION			SIDE	
ROAD IDENTIFICATION	STATION TO STATION		L	R
231st Street G28	342+00	350+00		X
231st Street G28	343+75	363+50	X	
231st Street G28	366+50	383+25		X
231st Street G28	405+60	415+50	X	



TYPICAL DETAILS FOR SUBDRAIN OUTLET EXTENSION

County Detail
70-4300-3
09-20-05



Details For Flowable Mortar Backfill and Granular Backfill

FILE NO.	.	ENGLISH	DESIGN TEAM	WHITE\MICHAEL\HORESOWSKY	MUSCATINE COUNTY	PROJECT NUMBER	STBG-SWAP-C070(62)--FG-70	SHEET NUMBER	B4	REVISED	.

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100-0A
10-28-97

ESTIMATED ROADWAY QUANTITIES
(1 DIVISION PROJECT)

Item No.	Item Code	Item	Unit	Total	As Built Qty.
1	2101-0850001	CLEARING AND GRUBBING	ACRE	8.0	
2	2102-2710070	EXCAVATION, CLASS 10, ROADWAY AND BORROW	CY	37,453.0	
3	2102-2712015	EXCAVATION, CLASS 12, BOULDERS OR ROCK FRAGMENTS	CY	100.0	
4	2102-2713070	EXCAVATION, CLASS 13, ROADWAY AND BORROW	CY	5,626.0	
5	2102-5020010	OBLITERATE OLD ROADBED	STA	11.02	
6	2105-8425015	TOPSOIL, STRIP, SALVAGE AND SPREAD	CY	7,106.0	
7	2107-0875000	COMPACTION WITH MOISTURE AND DENSITY CONTROL	CY	7,323.0	
8	2113-0001100	SUBGRADE STABILIZATION MATERIAL, POLYMER GRID	SY	29,879.2	
9	2115-0100000	MODIFIED SUBBASE	CY	4,812.0	
10	2115-0100200	MODIFIED SUBBASE, PLACE ONLY	CY	5,584.0	
11	2121-7425010	GRANULAR SHOULDERS, TYPE A	TON	7,279.0	
12	2123-7450020	SHOULDER FINISHING, EARTH	STA	329.70	
13	2213-7100400	RELOCATION OF MAIL BOXES	EACH	21	
14	2301-1033090	STANDARD OR SLIP FORM PORTLAND CEMENT CONCRETE PAVEMENT, CLASS C,	SY	29,122.6	
		CLASS 3 DURABILITY, 9 IN.			
15	2301-6911722	PORTLAND CEMENT CONCRETE PAVEMENT SAMPLES	LS	1.00	
16	2301-7000110	PAYMENT ADJUSTMENT INCENTIVE/DISINCENTIVE FOR PCC PAVEMENT THICKNESS	EACH	26,210	
		(BY SCHEDULE)			
17	2310-5151040	PORTLAND CEMENT CONCRETE OVERLAY, FURNISH ONLY	CY	9,964.0	
18	2310-5151551	PORTLAND CEMENT CONCRETE OVERLAY, PLACEMENT ONLY (WHITE TOPPING)	SY	34,088.9	
19	2312-8260051	GRANULAR SURFACING ON ROAD, CLASS A CRUSHED STONE	TON	60.0	
20	2315-8275025	SURFACING, DRIVEWAY, CLASS A CRUSHED STONE	TON	375.0	
21	2316-0000110	PAYMENT ADJUSTMENT INCENTIVE/DISINCENTIVE FOR PCC PAVEMENT SMOOTHNESS	EACH	47,409	
		(BY SCHEDULE)			
22	2401-6750001	REMOVALS, AS PER PLAN	LS	1.00	
23	2402-2720100	EXCAVATION, CLASS 20, FOR ROADWAY PIPE CULVERT	CY	321.0	
24	2416-0100015	APRONS, CONCRETE, 15 IN. DIA.	EACH	1	
25	2416-0100018	APRONS, CONCRETE, 18 IN. DIA.	EACH	2	
26	2416-0100024	APRONS, CONCRETE, 24 IN. DIA.	EACH	1	
27	2416-0101036	REMOVE AND REINSTALL CONCRETE PIPE APRONS LESS THAN OR EQUAL TO 36	EACH	2	
		IN.			
28	2416-1180018	CULVERT, CONCRETE ROADWAY PIPE, 18 IN. DIA.	LF	76	
29	2416-1180024	CULVERT, CONCRETE ROADWAY PIPE, 24 IN. DIA.	LF	66	
30	2416-1541036	REMOVE AND REINSTALL RIGID PIPE CULVERT LESS THAN OR EQUAL TO 36 IN.	LF	64	
31	2417-0330018	APRONS, SAFETY SLOPE, 18 IN. DIA.	EACH	2	
32	2417-0330036	APRONS, SAFETY SLOPE, 36 IN. DIA.	EACH	2	
33	2417-0330042	APRONS, SAFETY SLOPE, 42 IN. DIA.	EACH	2	
34	2417-1040018	CULVERT, CORRUGATED METAL ENTRANCE PIPE, 18 IN. DIA.	LF	92	
35	2417-1040036	CULVERT, CORRUGATED METAL ENTRANCE PIPE, 36 IN. DIA.	LF	72	
36	2417-1040042	CULVERT, CORRUGATED METAL ENTRANCE PIPE, 42 IN. DIA.	LF	38	
37	2435-0250700	INTAKE, SW-507	EACH	2	
38	2435-0250704	INTAKE, SW-507, TOP ONLY	EACH	5	
39	2435-0600120	INTAKE ADJUSTMENT, MAJOR	EACH	5	
40	2502-8212034	SUBDRAIN, LONGITUDINAL, (SHOULDER) 4 IN. DIA.	LF	10,436.0	
41	2502-8221303	SUBDRAIN OUTLET, DR-303	EACH	10	
42	2502-8221306	SUBDRAIN OUTLET, DR-306	EACH	28	
43	2503-0114215	STORM SEWER GRAVITY MAIN, TRENCHED, REINFORCED CONCRETE PIPE (RCP),	LF	96.0	
		2000D (CLASS III), 15 IN.			
44	2503-0114224	STORM SEWER GRAVITY MAIN, TRENCHED, REINFORCED CONCRETE PIPE (RCP),	LF	18.0	
		2000D (CLASS III), 24 IN.			
45	2503-0114415	STORM SEWER GRAVITY MAIN, TRENCHED, REINFORCED CONCRETE PIPE (RCP),	LF	34.0	
		3000D (CLASS IV), 15 IN.			
46	2503-0200036	REMOVE STORM SEWER PIPE LESS THAN OR EQUAL TO 36 IN.	LF	20	
47	2503-0200341	STORM SEWER ABANDONMENT, FILL AND PLUG, LESS THAN OR EQUAL TO 36 IN.	LF	70	
		DIA.			
48	2506-4984000	FLOWABLE MORTAR	CY	129.5	
49	2507-3250005	ENGINEERING FABRIC	SY	1,427.7	
50	2507-6800061	REVETMENT, CLASS E	TON	186.0	
51	2507-8029000	EROSION STONE	TON	648.0	
52	2510-6745850	REMOVAL OF PAVEMENT	SY	819.3	
53	2510-6750501	REMOVAL AND CRUSHING OF PAVEMENT	SY	24,330.4	
54	2511-0300000	REMOVAL OF RECREATIONAL TRAIL	SY	32.9	
55	2511-0302600	RECREATIONAL TRAIL, PORTLAND CEMENT CONCRETE, 6 IN.	SY	33.4	
56	2511-7528101	DETECTABLE WARNINGS	SF	24	
57	2515-2475007	DRIVEWAY, P.C. CONCRETE, 7 IN.	SY	2,188.4	
58	2515-6745600	REMOVAL OF PAVED DRIVEWAY	SY	2,358.3	
59	2518-6910000	SAFETY CLOSURE	EACH	31	
60	2526-8285000	CONSTRUCTION SURVEY	LS	1.00	
61	2527-9263117	PAINTED PAVEMENT MARKINGS, DURABLE	STA	890.14	
62	2528-8445110	TRAFFIC CONTROL	LS	1.00	
63	2528-8445113	FLAGGERS	EACH	See Proposal	
64	2533-4980005	MOBILIZATION	LS	1.00	
65	2599-9999005	('EACH' ITEM) REMOVE AND RELOCATE EXISTING 6"DIA CMP SUBDRAIN OUTLET	EACH	22	
66	2599-9999010	('LUMP SUM' ITEM) REMOVE AND RELOCATE EXISTING TILE RISER	LS	1.00	
67	2601-2634100	MULCHING	ACRE	25.6	
68	2601-2636043	SEEDING AND FERTILIZING (RURAL)	ACRE	12.4	
69	2601-2636044	SEEDING AND FERTILIZING (URBAN)	ACRE	0.4	
70	2601-2638352	SLOPE PROTECTION, WOOD EXCELSIOR MAT	SQ	361.5	
71	2601-2642100	STABILIZING CROP - SEEDING AND FERTILIZING	ACRE	12.4	
72	2601-2642120	STABILIZING CROP - SEEDING AND FERTILIZING (URBAN)	ACRE	0.4	
73	2602-0000020	SILT FENCE	LF	2,665.0	
74	2602-0000030	SILT FENCE FOR DITCH CHECKS	LF	1,177.0	

100-0A
10-28-97

ESTIMATED ROADWAY QUANTITIES
(1 DIVISION PROJECT)

Item No.	Item Code	Item	Unit	Total	As Built Qty.
75	2602-0000071	REMOVAL OF SILT FENCE OR SILT FENCE FOR DITCH CHECKS	LF	1,153.0	
76	2602-0000101	MAINTENANCE OF SILT FENCE OR SILT FENCE FOR DITCH CHECK	LF	3,362.0	
77	2602-0000312	PERIMETER AND SLOPE SEDIMENT CONTROL DEVICE, 12 IN. DIA.	LF	4,618.0	
78	2602-0000350	REMOVAL OF PERIMETER AND SLOPE SEDIMENT CONTROL DEVICE	LF	1,385.0	
79	2602-0010010	MOBILIZATIONS, EROSION CONTROL	EACH	16	
80	2602-0010020	MOBILIZATIONS, EMERGENCY EROSION CONTROL	EACH	1	

MUSCATINE-10
10-16-12

GENERAL NOTES

THE CONTRACTOR SHALL NOT OPERATE ANY EQUIPMENT EXCEEDING LEGAL LOADS ON ANY AND ALL COUNTY ROADS. ALL CONSTRUCTION EQUIPMENT AND VEHICLES WILL OBEY TRAFFIC CONTROL REGULATIONS AT ALL TIMES. THIS INCLUDES ALL TRUCKS DELIVERING PCC MIX TO THE PAVING MACHINE.

IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO BE FAMILIAR WITH THE PROJECT FOR LOCATION OF UTILITIES, DRAINAGE OR OTHER FACILITIES IN THE CONSTRUCTION AREA. ANY DAMAGE TO SUCH FACILITIES, DUE TO THE CONTRACTOR'S CARELESSNESS, SHALL BE CORRECTED AT HIS/HER EXPENSE WITHOUT COST TO MUSCATINE COUNTY. NO CLAIMS FOR ADDITIONAL COMPENSATION WILL BE ALLOWED FOR ANY INTERFERENCE OR DELAY CAUSED BY CARELESSNESS. WORK DAYS WILL CONTINUE TO BE CHARGED DURING REPAIR OF DAMAGES.

IT SHALL BE THE CONTRACTOR’S RESPONSIBILITY TO PROVIDE A WASTE AREA OR DISPOSAL SITES FOR EXCESS MATERIAL WHICH IS NOT DESIREABLE TO BE INCORPORATED INTO THE PROJECT. NO PAYMENT FOR OVERHAUL WILL BE ALLOWED FOR MATERIAL HAULED TO THESE SITES.

100-1D
10-18-05

PROJECT DESCRIPTION

THIS PROJECT IS A PCC WHITETOPPING AND PCC RECONSTRUCTION WITH GRADING FOR MINOR REALIGNMENT OF AN EXISTING HMA PAVEMENT ALONG 231ST STREET G28.

THIS PROJECT WILL BE COMPLETED IN MULTIPLE STAGES WITH THE INTENT OF MAINTAINING ACCESS TO RESIDENTS AND BUSINESSES.

100-27
04-17-18

PROPOSED POSTED SPEED LIMIT

Road Identification	Begin Station	End Station	Proposed Posted Speed Limit			Remarks
			35 or less	40 - 45	over 45	
231ST STREET	342+00.00	546+75.00			55	

MUSCATINE-11
04-16-13

SMOOTHNESS NOTE

ARTICLE 2316, PAVEMENT SMOOTHNESS, SHALL APPLY TO THIS PROJECT. SMOOTHNESS PER SCHEDULE 'A' WITH INCENTIVE PAY.

MUSCATINE-3
04-16-13

CERTIFIED PLANT INSPECTION NOTE

CERTIFIED PLANT INSPECTION PER SPECIFICATION 2521 SHALL APPLY TO THIS PROJECT.

MUSCATINE-4
04-16-13

PRECONSTRUCTION MEETING NOTE

A PRE-CONSTRUCTION CONFERENCE WITH THE SUCCESSFUL BIDDER WILL BE HELD NOT LESS THAN TWO WEEKS BEFORE STARTING THE PROJECT AND SHALL INCLUDE THE CONTRACTOR'S JOB SUPERINTENDENT, SUBCONTRACTORS, AND CONSTRUCTION SURVEYOR.

MUSCATINE-6
04-16-13

MAINTAIN ACCESS NOTE

The Contractor shall be responsible to maintain access to individual properties during construction.

MUSCATINE-8
04-16-13

HAUL ROADS NOTE

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL THE DUST CONTROL ACCORDING TO SPECIFICATION 1107.07 AND SHALL BLADE ALL HAUL ROADS TO A SMOOTH CONDITION AT AN INTERVAL RATE OF ONE PASS PER EVERY 750 TONS OF CONTRACT MATERIAL DELIVERED OVER SAID ROADS.

MUSCATINE COUNTY WILL INCUR ALL COSTS OF DELIVERED MATERIAL TO MAINTAIN SAID HAUL ROADS IN GOOD REPAIR AS DETERMINED BY THE COUNTY ENGINEER.

ANY AND ALL NECESSARY BLADING AND DUST CONTROL SHALL BE INCIDENTAL TO THE CONTRACT. IF, AT ANY TIME, THE NECESSARY BLADING AND DUST CONTROL HAS NOT BEEN COMPLIED WITH, CONSTRUCTION WILL BE SUSPENDED

MUSCATINE-8
04-16-13

HAUL ROADS NOTE

AND WILL REMAIN SUSPENDED UNTIL SUCH DEFICIENCIES ARE CORRECTED. THIS SHALL APPLY TO ANY AND ALL HAUL ROADS USED BY MATERIAL SUPPLIERS.

ESTIMATE REFERENCE INFORMATION

Item No.	Item Code	Description
1	2101-0850001	CLEARING AND GRUBBING
		SEE SHEET C8 FOR TABULATION AND EMERALD ASH BORER NOTE. THIS ITEM SHALL BE COMPLETED IN EACH STAGE PRIOR TO PAVING.
-	-	-
2	2102-2710070	EXCAVATION, CLASS 10, ROADWAY AND BORROW
		SEE ‘B’, ‘D’, ‘T’, AND ‘W’ SHEETS FOR DETAILS. TYPE “A” COMPACTION WILL BE REQUIRED ON ALL EMBANKMENTS. NO PAYMENT
		FOR OVERHAUL WILL BE MADE ON THIS PROJECT. SUITABLE MATERIAL MAY BE USED IN EARTH SHOULDER FILL AND TREATMENT AREAS.
		THE REMAINING 3635 C.Y. SHALL BE WASTED OFF-SITE IN A SUITABLE LOCATION AGREEABLE TO THE ENGINEER. THIS ITEM SHALL BE
		COMPLETED IN EACH STAGE PRIOR TO PAVING.
-	-	-
3	2102-2712015	EXCAVATION, CLASS 12, BOULDERS OR ROCK FRAGMENTS
		TYPE “A” COMPACTION WILL BE REQUIRED ON ALL EMBANKMENTS. NO PAYMENT FOR OVERHAUL WILL BE MADE ON THIS PROJECT. THIS
		ITEM SHALL BE COMPLETED IN EACH STAGE PRIOR TO PAVING.
-	-	-
4	2102-2713070	EXCAVATION, CLASS 13, ROADWAY AND BORROW
		SEE ‘B’, C10, C11, ‘D’, ‘L’, ‘T’, ‘S’, AND ‘W’ SHEETS FOR DETAILS. TYPE “A” COMPACTION WILL BE REQUIRED ON ALL
		EMBANKMENTS. NO PAYMENT FOR OVERHAUL WILL BE MADE ON THIS PROJECT. SUITABLE MATERIAL MAY BE USED IN EARTH SHOULDER
		FILL. THIS ITEM SHALL BE COMPLETED IN EACH STAGE PRIOR TO PAVING.
-	-	-
5	2102-5020010	OBLITERATE OLD ROADBED
		SEE SHEETS D1, D3, AND L5-L7 FOR LOCATIONS AND DETAILS. THE CONTRACTOR SHALL BE REQUIRED TO OBLITERATE THE OLD
		ROADBED OR SHOULDERS AS DESIGNATED IN THE PROJECT PLANS. METHOD OF MEASUREMENT IS STATIONS SHOWN IN THE CONTRACT
		DOCUMENTS ALONG EACH EDGE OF PAVEMENT OR SHOULDER. BASIS OF PAYMENT SHALL BE FULL COMPENSATION FOR FURNISHING ALL
		MATERIALS, EQUIPMENT, AND LABOR, AND FOR PERFORMANCE OF ALL WORK NECESSARY.
-	-	-
6	2105-8425015	TOPSOIL, STRIP, SALVAGE AND SPREAD
		SEE SHEET C7 FOR TABULATION. THIS ITEM SHALL BE COMPLETED IN EACH STAGE PRIOR TO PAVING.
-	-	-
7	2107-0875000	COMPACTION WITH MOISTURE AND DENSITY CONTROL
		THIS BID ITEM INCLUDES 3025 C.Y. FOR SUBGRADE TREATMENT AREA SHOWN ON SHEET B2, 2722 C.Y. FOR SUBGRADE TREATMENT
		AREA SHOWN ON SHEET B3, 1418 C.Y. OF TEMPLATE FILL QUANTITY FROM STATION 509+00 TO STATION 514+00, AND 158 C.Y. FOR
		DRIVEWAY FILL AS SHOWN ON SHEET L7. THIS ITEM SHALL BE COMPLETED IN EACH STAGE PRIOR TO PAVING.
-	-	-
8	2113-0001100	SUBGRADE STABILIZATION MATERIAL, POLYMER GRID
		SEE SHEETS B2, B3, C11, L1, L2, AND L7 FOR DETAILS AND TABULATION.
-	-	-
9	2115-0100000	MODIFIED SUBBASE
		SEE SHEETS B2, B3, C11, 'D', 'L', AND 'S' FOR DETAILS AND TABULATIONS. SUBGRADE SHALL BE CUT TO FINAL GRADE ELEVATION
		IN ACCORDANCE WITH ARTICLE 2109.03,A,10 OF SECTION 2109. PROFILE AND CROSS SECTION TOLERANCES FOR MODIFIED SUBBASE
		ARE +0 TO -0.05 FOOT. NO HEAVY EQUIPMENT WILL BE ALLOWED ON THE FINISH SUBBASE, EXCEPT AT TIME OF PAVING OPERATION.
-	-	-
10	2115-0100200	MODIFIED SUBBASE, PLACE ONLY
		SEE SHEETS B2, B3, C11, 'D', 'L', AND 'S' FOR DETAILS AND TABULATIONS. SUBGRADE SHALL BE CUT TO FINAL GRADE ELEVATION
		IN ACCORDANCE WITH ARTICLE 2109.03,A,10 OF SECTION 2109. PROFILE AND CROSS SECTION TOLERANCES FOR MODIFIED SUBBASE
		ARE +0 TO -0.05 FOOT. NO HEAVY EQUIPMENT WILL BE ALLOWED ON THE FINISH SUBBASE, EXCEPT AT TIME OF PAVING OPERATION.
		THIS BID ITEM IS FOR PLACEMENT OF CRUSHED PAVEMENT SUBBASE, PAID FOR UNDER BID ITEM #53.
-	-	-
11	2121-7425010	GRANULAR SHOULDERS, TYPE A
		SEE SHEETS B2 AND B3 FOR DETAILS. BID ITEM QUANTITY BASED ON A UNIT WEIGHT OF 140LBS/CU.FT. THE CONTRACTOR WILL BE
		REQUIRED TO PLACE AND COMPACT THIS MATERIAL IN A MINIMUM OF 2 EQUAL LIFTS.
-	-	-
12	2123-7450020	SHOULDER FINISHING, EARTH
		SEE SHEETS B2 AND B3 FOR DETAILS. THIS BID ITEM INCLUDES 9.08 STATIONS FOR FINISHING SHOULDERS ALONG PCC DRIVEWAYS
		AND THE INTERSECTION RETURNS ON KINCAID AVENUE AND SEVEN SPRINGS ROAD.
-	-	-
13	2213-7100400	RELOCATION OF MAIL BOXES
		THE CONTRACTOR SHALL BE REQUIRED, IF NECESSARY, TO REMOVE AND REPLACE MAILBOXES (INCLUDING 911 ADDRESS SIGNS AS
		NECESSARY) ALONG THE ROUTE TO ACCOMMODATE CONSTRUCTION EQUIPMENT OR INCREASE MAILBOX HEIGHT DUE TO NEW CONSTRUCTION.
		THE CONTRACTOR SHALL BE REQUIRED TO FURNISH NEW 4"x4" TREATED WOOD POSTS IF EXISTING POSTS ARE DAMAGED DURING
		RELOCATION. METHOD OF MEASUREMENT SHALL BE FOR REMOVAL AND REPLACEMENT OF EACH MAILBOX. BASIS OF PAYMENT FOR
		REMOVAL AND REPLACEMENT OF EACH MAILBOX SHALL BE FULL COMPENSATION FOR FURNISHING ALL MATERIALS, EQUIPMENT, AND LABOR,
		AND FOR PERFORMANCE OF ALL WORK NECESSARY. THIS BID ITEM SHALL INCLUDE THE 911 ADDRESS SIGNS WITH NO ADDITIONAL
		MEASUREMENT OR PAYMENT. THIS BID ITEM SHALL ALSO INCLUDE ALL TEMPORARY MAILBOXES AS NECESSARY WITH NO ADDITIONAL
		MEASUREMENT OR PAYMENT. THIS BID ITEM SHALL ALSO INCLUDE THE REMOVAL AND DISPOSAL OF ANY CONCRETE MAILBOX FOOTINGS
		DISCOVERED WITHIN THE PROJECT LIMITS WITH NO ADDITIONAL MEASUREMENT OR PAYMENT.
-	-	-
14	2301-1033090	STANDARD OR SLIP FORM PORTLAND CEMENT CONCRETE PAVEMENT, CLA SS C, CLASS 3 DURABILITY, 9 IN.
		P.C. CONCRETE SHALL BE A "C" MIX WITH COARSE AGGREGATE OF CLASS 3 DURABILITY. NO CLASS "F" FLY ASH WILL BE ALLOWED.
		LONGITUDINAL GROOVING WILL BE REQUIRED IN ACCORDANCE WITH ARTICLE 2301.03,H,3,c,3. ALL PAVEMENT TRANSVERSE
		CONTRACTION JOINTS SHALL BE "CD" PLACED ON 15' SPACING, UNLESS OTHERWISE NOTED. ALL PAVEMENT LONGITUDINAL
		CONTRACTION JOINTS SHALL BE "L-2" AS DETAILED ON SRP PV-101. SECTION 2521 CERTIFIED PLANT INSPECTION SHALL APPLY TO
		THIS ITEM. SECTION 2316 PAVEMENT SMOOTHNESS SHALL APPLY TO THIS ITEM. THE MATURITY METHOD AS DESCRIBED IN MATERIALS
		I.M. 383 SHALL BE USED TO DETERMINE TIME OF OPENING. THIS BID ITEM INCLUDES 76.7 S.Y. FOR LUTHERAN DRIVE. SEE ALL
		SHEETS FOR PLACEMENT DETAILS.
-	-	-
17	2310-5151040	PORTLAND CEMENT CONCRETE OVERLAY, FURNISH ONLY
		P.C. CONCRETE SHALL BE A "C" MIX WITH COARSE AGGREGATE OF CLASS 3 DURABILITY. NO CLASS "F" FLY ASH WILL BE ALLOWED.
		SECTION 2521 CERTIFIED PLANT INSPECTION SHALL APPLY TO THIS ITEM. QUANTITY BASED ON CROSS SECTION MEASUREMENTS,
		APPROXIMATELY 30.9% OVERRUN ON NOMINAL 8 INCHES.
-	-	-

100-4A
10-29-02

ESTIMATE REFERENCE INFORMATION

Item No.	Item Code	Description
18	2310-5151551	PORTLAND CEMENT CONCRETE OVERLAY, PLACEMENT ONLY (WHITE TOPP ING)
		P.C. CONCRETE SHALL BE A "C" MIX WITH COARSE AGGREGATE OF CLASS 3 DURABILITY. NO CLASS "F" FLY ASH WILL BE ALLOWED.
		LONGITUDINAL GROOVING WILL BE REQUIRED IN ACCORDANCE WITH ARTICLE 2301.03,H,3,c,3. ALL PAVEMENT TRANSVERSE
		CONTRACTION JOINTS SHALL BE SKEWED "C" JOINTS PLACED ON 15' SPACING, UNLESS OTHERWISE NOTED. ALL PAVEMENT
		LONGITUDINAL CONTRACTION JOINTS SHALL BE "L-2" AS DETAILED ON SRP PV-101. SECTION 2521 CERTIFIED PLANT INSPECTION
		SHALL APPLY TO THIS ITEM. SECTION 2316 PAVEMENT SMOOTHNESS SHALL APPLY TO THIS ITEM. THE MATURITY METHOD AS DESCRIBED
		IN MATERIALS I.M. 383 SHALL BE USED TO DETERMINE TIME OF OPENING. SEE ALL SHEETS FOR PLACEMENT DETAILS.
-	-	-
19	2312-8260051	GRANULAR SURFACING ON ROAD, CLASS A CRUSHED STONE
		SEE SHEET C8 FOR TABULATION. QUANTITY BASED ON 2 INTERSECTIONS AT 30 TONS/INTERSECTION.
-	-	-
20	2315-8275025	SURFACING, DRIVEWAY, CLASS A CRUSHED STONE
		SEE SHEET C8 FOR TABULATION. QUANTITY BASED ON 21 DRIVEWAYS AND FIELD ENTRANCES AT 15 TONS/ENTRANCE AND 2 ENTRANCES
		AT 30 TONS/ENTRANCE.
-	-	-
22	2401-6750001	REMOVALS, AS PER PLAN
		SEE SHEET C7 FOR TABULATION. THIS MATERIAL SHALL BE WASTED OFF-SITE IN AN APPROVED LOCATION THAT IS AGREEABLE TO THE
		ENGINEER. THIS BID ITEM SHALL INCLUDE ALL SAW CUTS NECESSARY TO REMOVE EACH ITEM CLEANLY AND LEAVE REMAINING
		STRUCTURES IN TACT. THIS ITEM SHALL BE COMPLETED IN EACH STAGE PRIOR TO PAVING.
-	-	-
23	2402-2720100	EXCAVATION, CLASS 20, FOR ROADWAY PIPE CULVERT
		SEE SHEET C4 FOR TABULATION. THIS ITEM SHALL BE COMPLETED IN EACH STAGE PRIOR TO PAVING.
-	-	-
24	2416-0100015	APRONS, CONCRETE, 15 IN. DIA.
		SEE SHEET M1 FOR TABULATION. APRON TO BE PLACED AT BEGINNING OF STORM SEWER LINE 1. THIS ITEM SHALL BE COMPLETED IN
		EACH STAGE PRIOR TO PAVING.
-	-	-
25	2416-0100018	APRONS, CONCRETE, 18 IN. DIA.
		SEE SHEET C4 FOR TABULATION. THIS ITEM SHALL BE COMPLETED IN EACH STAGE PRIOR TO PAVING.
-	-	-
26	2416-0100024	APRONS, CONCRETE, 24 IN. DIA.
		SEE SHEET C4 FOR TABULATION. THIS ITEM SHALL BE COMPLETED IN EACH STAGE PRIOR TO PAVING.
-	-	-
27	2416-0101036	REMOVE AND REINSTALL CONCRETE PIPE APRONS LESS THAN OR EQUAL TO 36 IN.
		SEE SHEET M1 FOR TABULATION. APRONS TO BE REMOVED AND REINSTALLED ON STORM SEWER LINES 3 AND 4. THIS ITEM SHALL BE
		COMPLETED IN EACH STAGE PRIOR TO PAVING.
-	-	-
28	2416-1180018	CULVERT, CONCRETE ROADWAY PIPE, 18 IN. DIA.
		SEE SHEET C4 FOR TABULATION. THIS ITEM SHALL BE COMPLETED IN EACH STAGE PRIOR TO PAVING.
-	-	-
29	2416-1180024	CULVERT, CONCRETE ROADWAY PIPE, 24 IN. DIA.
		SEE SHEET C4 FOR TABULATION. THIS ITEM SHALL BE COMPLETED IN EACH STAGE PRIOR TO PAVING.
-	-	-
30	2416-1541036	REMOVE AND REINSTALL RIGID PIPE CULVERT LESS THAN OR EQUAL T O 36 IN.
		SEE SHEET C4 FOR TABULATION. THIS ITEM SHALL BE COMPLETED IN EACH STAGE PRIOR TO PAVING.
-	-	-
31	2417-0330018	APRONS, SAFETY SLOPE, 18 IN. DIA.
		SEE SHEET C8 FOR TABULATION. THIS ITEM SHALL BE COMPLETED IN EACH STAGE PRIOR TO PAVING.
-	-	-
32	2417-0330036	APRONS, SAFETY SLOPE, 36 IN. DIA.
		SEE SHEET C8 FOR TABULATION. THIS ITEM SHALL BE COMPLETED IN EACH STAGE PRIOR TO PAVING.
-	-	-
33	2417-0330042	APRONS, SAFETY SLOPE, 42 IN. DIA.
		SEE SHEET C8 FOR TABULATION. THIS ITEM SHALL BE COMPLETED IN EACH STAGE PRIOR TO PAVING.
-	-	-
34	2417-1040018	CULVERT, CORRUGATED METAL ENTRANCE PIPE, 18 IN. DIA.
		SEE SHEET C8 FOR TABULATION. CULVERT SHALL BE 14 GAGE RIVETED ANNULAR PIPE WITH 2 2/3" x 1/2" CORRUGATIONS. ALL
		BANDS SHALL BE ANNULAR WITH A MINIMUM WIDTH OF 24 INCHES. THIS ITEM SHALL BE COMPLETED IN EACH STAGE PRIOR TO PAVING.
-	-	-
35	2417-1040036	CULVERT, CORRUGATED METAL ENTRANCE PIPE, 36 IN. DIA.
		SEE SHEET C8 FOR TABULATION. CULVERT SHALL BE 14 GAGE RIVETED ANNULAR PIPE WITH 2 2/3" x 1/2" CORRUGATIONS. ALL
		BANDS SHALL BE ANNULAR WITH A MINIMUM WIDTH OF 24 INCHES. THIS ITEM SHALL BE COMPLETED IN EACH STAGE PRIOR TO PAVING.
-	-	-
36	2417-1040042	CULVERT, CORRUGATED METAL ENTRANCE PIPE, 42 IN. DIA.
		SEE SHEET C8 FOR TABULATION. CULVERT SHALL BE 12 GAGE RIVETED ANNULAR PIPE WITH 2 2/3" x 1/2" CORRUGATIONS. ALL
		BANDS SHALL BE ANNULAR WITH A MINIMUM WIDTH OF 24 INCHES. THIS ITEM SHALL BE COMPLETED IN EACH STAGE PRIOR TO PAVING.
-	-	-
37	2435-0250700	INTAKE, SW-507
		SEE SHEETS D4-D7 AND M1 FOR DETAILS AND TABULATION. THIS ITEM SHALL BE COMPLETED IN EACH STAGE PRIOR TO PAVING.
-	-	-
38	2435-0250704	INTAKE, SW-507, TOP ONLY
		SEE SHEETS D4-D7 AND M1 FOR DETAILS AND TABULATION. THIS ITEM SHALL BE COMPLETED IN EACH STAGE PRIOR TO PAVING.
-	-	-
39	2435-0600120	INTAKE ADJUSTMENT, MAJOR
		SEE SHEETS D4-D7 AND M1 FOR DETAILS AND TABULATION. THIS ITEM SHALL BE COMPLETED IN EACH STAGE PRIOR TO PAVING.
-	-	-
40	2502-8212034	SUBDRAIN, LONGITUDINAL, (SHOULDER) 4 IN. DIA.
		SEE SHEETS B1-B3 AND C10 FOR DETAILS AND TABULATION. THIS BID ITEM INCLUDES 220 L.F. FOR 22 OUTLET EXTENSIONS FROM
		STATION 342+00 TO STATION 417+00 IN SHOULDER WIDENING AND FORESLOPE GRADING AREAS.
-	-	-
41	2502-8221303	SUBDRAIN OUTLET, DR-303
		SEE SHEET C10 FOR TABULATION. OUTLET CONNECTION TO SRP SW-507 STYLE INTAKE.
-	-	-

ESTIMATE REFERENCE INFORMATION

Item No.	Item Code	Description
42	2502-8221306	SUBDRAIN OUTLET, DR-306
		SEE SHEET C10 FOR TABULATION.
-	-	-
43	2503-0114215	STORM SEWER GRAVITY MAIN, TRENCHED, REINFORCED CONCRETE PIPE (RCP), 2000D (CLASS III), 15 IN.
		SEE SHEETS D4 AND M1 FOR DETAILS AND TABULATION. THIS ITEM SHALL BE COMPLETED IN EACH STAGE PRIOR TO PAVING.
-	-	-
44	2503-0114224	STORM SEWER GRAVITY MAIN, TRENCHED, REINFORCED CONCRETE PIPE (RCP), 2000D (CLASS III), 24 IN.
		SEE SHEETS D5-D7 AND M1 FOR DETAILS AND TABULATION. THIS ITEM SHALL BE COMPLETED IN EACH STAGE PRIOR TO PAVING.
-	-	-
45	2503-0114415	STORM SEWER GRAVITY MAIN, TRENCHED, REINFORCED CONCRETE PIPE (RCP), 3000D (CLASS IV), 15 IN.
		SEE SHEETS D4 AND M1 FOR DETAILS AND TABULATION. THIS ITEM SHALL BE COMPLETED IN EACH STAGE PRIOR TO PAVING.
-	-	-
46	2503-0200036	REMOVE STORM SEWER PIPE LESS THAN OR EQUAL TO 36 IN.
		SEE SHEET C8 FOR TABULATION. THIS ITEM SHALL BE COMPLETED IN EACH STAGE PRIOR TO PAVING.
-	-	-
47	2503-0200341	STORM SEWER ABANDONMENT, FILL AND PLUG, LESS THAN OR EQUAL T O 36 IN. DIA.
		SEE SHEET C8 FOR TABULATION. THIS ITEM SHALL BE COMPLETED IN EACH STAGE PRIOR TO PAVING.
-	-	-
48	2506-4984000	FLOWABLE MORTAR
		SEE SHEETS B4, C4, AND C8 FOR DETAILS AND TABULATIONS. THIS BID ITEM INCLUDES 12 C.Y. FOR BACKFILL OF STORM SEWER
		LINE 2. THIS BID ITEM ALSO INCLUDES CONCRETE PLUGS ON THE OUTLET ENDS OF CULVERT AND SEWER ABANDONMENT. SECTION 2521
		CERTIFIED PLANT INSPECTION SHALL APPLY TO THIS ITEM. THIS ITEM SHALL BE COMPLETED IN EACH STAGE PRIOR TO PAVING.
-	-	-
49	2507-3250005	ENGINEERING FABRIC
		SEE SHEET C6 FOR TABULATION. THIS ITEM SHALL BE COMPLETED IN EACH STAGE PRIOR TO PAVING.
-	-	-
50	2507-6800061	REVETMENT, CLASS E
		SEE SHEET C6 FOR TABULATION. THIS ITEM SHALL BE COMPLETED IN EACH STAGE PRIOR TO PAVING.
-	-	-
51	2507-8029000	EROSION STONE
		SEE SHEET C6 FOR TABULATION. THIS ITEM SHALL BE COMPLETED IN EACH STAGE PRIOR TO PAVING.
-	-	-
52	2510-6745850	REMOVAL OF PAVEMENT
		SEE SHEET C7 FOR TABULATION. THE EXISTING PAVEMENT IS MULTIPLE LAYERS OF SEAL COAT WITH AN ESTIMATED THICKNESS OF 3
		INCHES. THIS BID ITEM SHALL INCLUDE ALL SAW CUTS NECESSARY FOR THE REMOVAL OF THIS PAVEMENT. THIS BID ITEM SHALL
		INCLUDE THE ENTIRE PAVEMENT STRUCTURE, REGARDLESS OF THICKNESS ENCOUNTERED. NO PAYMENT FOR ADDITIONAL THICKNESS, IF
		ENCOUNTERED, WILL BE MADE. ALL MATERIAL SHALL BE WASTED OFF-SITE IN AN APPROVED LOCATION THAT IS AGREEABLE TO THE
		ENGINEER. THIS ITEM SHALL BE COMPLETED IN EACH STAGE PRIOR TO PAVING.
-	-	-
53	2510-6750501	REMOVAL AND CRUSHING OF PAVEMENT
		SEE SHEET C7 FOR TABULATION. THE EXISTING PAVEMENT IS HMA AND PCC WITH AN ESTIMATED THICKNESS AS SPECIFIED ON SHEET
		B1. THIS BID ITEM SHALL INCLUDE ALL SAW CUTS NECESSARY FOR THE REMOVAL OF THIS PAVEMENT. THIS BID ITEM SHALL INCLUDE
		THE ENTIRE PAVEMENT STRUCTURE, REGARDLESS OF THICKNESS ENCOUNTERED. NO PAYMENT FOR ADDITIONAL THICKNESS, IF
		ENCOUNTERED, WILL BE MADE. THE PAVEMENT SHALL BE CRUSHED TO MEET THE REQUIREMENTS OF GRADATION #14 AND STOCKPILED IN
		A LOCATION PROVIDED BY THE CONTRACTOR THAT IS AGREEABLE TO THE ENGINEER. THE CRUSHED PAVEMENT SHALL BE USED AS
		MODIFIED SUBBASE. MATERIALS I.M. 210 SHALL APPLY. THIS ITEM SHALL BE COMPLETED IN EACH STAGE PRIOR TO PAVING.
-	-	-
54	2511-0300000	REMOVAL OF RECREATIONAL TRAIL
		SEE SHEETS C11, D7, S1, AND S2 FOR DETAILS AND TABULATIONS. THE EXISTING PAVEMENT IS PCC AND HMA WITH AN ESTIMATED
		THICKNESS OF 6 INCHES. THIS BID ITEM SHALL INCLUDE ALL SAW CUTS NECESSARY FOR THE REMOVAL OF THIS PAVEMENT. THIS BID
		ITEM SHALL INCLUDE THE ENTIRE PAVEMENT STRUCTURE, REGARDLESS OF THICKNESS ENCOUNTERED. NO PAYMENT FOR ADDITIONAL
		THICKNESS, IF ENCOUNTERED, WILL BE MADE.THIS MATERIAL SHALL BE WASTED OFF-SITE IN AN APPROVED LOCATION THAT IS
		AGREEABLE TO THE ENGINEER. THIS ITEM SHALL BE COMPLETED IN EACH STAGE PRIOR TO PAVING.
-	-	-
55	2511-0302600	RECREATIONAL TRAIL, PORTLAND CEMENT CONCRETE, 6 IN.
		SEE SHEETS C11, D7, S1, AND S2 FOR DETAILS AND TABULATIONS. SECTION 2521 CERTIFIED PLANT INSPECTION SHALL APPLY TO
		THIS ITEM. THE MATURITY METHOD AS DESCRIBED IN MATERIALS I.M. 383 SHALL BE USED TO DETERMINE TIME OF OPENING.
-	-	-
56	2511-7528101	DETECTABLE WARNINGS
		SEE SHEET D7 FOR LOCATION.
-	-	-
57	2515-2475007	DRIVEWAY, P.C. CONCRETE, 7 IN.
		SEE SHEETS C8 AND L3-L8 FOR DETAILS AND TABULATION. P.C. CONCRETE SHALL BE A "C" MIX WITH COARSE AGGREGATE OF CLASS 3
		DURABILITY. NO CLASS "F" FLY ASH WILL BE ALLOWED. SECTION 2521 CERTIFIED PLANT INSPECTION SHALL APPLY TO THIS ITEM.
		THE MATURITY METHOD AS DESCRIBED IN MATERIALS I.M. 383 SHALL BE USED TO DETERMINE TIME OF OPENING.
-	-	-
58	2515-6745600	REMOVAL OF PAVED DRIVEWAY
		SEE SHEETS C7 AND L3-L8 FOR DETAILS AND TABULATION. THE EXISTING DRIVEWAYS AND INTERSECTIONS ARE PCC AND HMA WITH AN
		ESTIMATED THICKNESS AS SPECIFIED ON 'L' SHEETS. THIS BID ITEM SHALL INCLUDE ALL SAW CUTS NECESSARY FOR THE REMOVAL OF
		THE DRIVEWAY AND INTERSECTION PAVEMENT. THIS BID ITEM SHALL INCLUDE THE ENTIRE PAVEMENT STRUCTURE, REGARDLESS OF
		THICKNESS ENCOUNTERED. NO PAYMENT FOR ADDITIONAL THICKNESS, IF ENCOUNTERED, WILL BE MADE. ALL MATERIAL SHALL BE
		WASTED OFF-SITE IN AN APPROVED LOCATION THAT IS AGREEABLE TO THE ENGINEER. THIS ITEM SHALL BE COMPLETED IN EACH STAGE
		PRIOR TO PAVING.
-	-	-
59	2518-6910000	SAFETY CLOSURE
		SEE SHEET C8 FOR TABULATION.
-	-	-
60	2526-8285000	CONSTRUCTION SURVEY
		THE CONTRACTING AUTHORITY WILL BE RESPONSIBLE FOR MONUMENT PRESERVATION ON THIS PROJECT. THE CONTRACTOR WILL BE
		RESPONSIBLE FOR ALL OTHER ITEMS UNDER THIS SECTION. SEE ALL SHEETS FOR DETAILS.
-	-	-

100-4A
10-29-02

ESTIMATE REFERENCE INFORMATION

Item No.	Item Code	Description
61	2527-9263117	PAINTED PAVEMENT MARKINGS, DURABLE
		SEE SHEET C9 FOR TABULATION. WHITE EDGE LINES SHALL BE PAINTED 6 INCHES WIDE. THIS BID ITEM INCLUDES A 50% INCREASE
		FOR 6 INCH WIDE EDGE LINES.
-	-	-
62	2528-8445110	TRAFFIC CONTROL
		FOR ROAD CLOSURES REFER TO SRP TC-252 AND THE TRAFFIC CONTROL NOTES ON SHEET J1. SEE SHEETS J2-J5 FOR DETOUR SIGNING
		LOCATIONS. ALL SIGNS SHALL BE IN PLACE PRIOR TO CLOSING ROADWAY SECTIONS. THE CONTRACTOR SHALL FURNISH ALL DETOUR
		SIGNING AS DESIGNATED ON THESE SHEETS INCLUDING ALL HARDWARE AND POSTS NECESSARY FOR ERECTING AND MAINTAINING FOR THE
		DURATION OF THE DETOUR. THIS BID ITEM SHALL INCLUDE THE COST OF ALL PEDESTRIAN CLOSURES, DETOUR SIGNING, AND
		MAINTENANCE OF BOTH. THIS BID ITEM SHALL ALSO INCLUDE THE REMOVAL AND STOCKPILING OF EXISTING SIGNS AND SUPPORT POSTS
		WITHIN THE CONSTRUCTION LIMITS.
-	-	-
63	2528-8445113	FLAGGERS
		FLAGGERS MAY BE REQUIRED AT TIMES DURING CONSTRUCTION FOR SAFETY. FLAGGERS SHALL BE REQUIRED AT THE BEGINNING AND
		ENDING OF EACH DAY'S RUN AND AT ALL SIDE ROAD INTERSECTIONS DURING PLACEMENT OF MAINLINE PAVING.
-	-	-
65	2599-9999005	('EACH' ITEM) REMOVE AND RELOCATE EXISTING 6"DIA CMP SUBDRAIN OUTLET
		THE CONTRACTOR SHALL BE REQUIRED TO EXCAVATE, REMOVE, RELOCATE, AND REINSTALL EXISTING 6" x 6' CMP SUBDRAIN OUTLET
		WITH RODENT GUARD, PAVING BLOCK, AND "T" POST IN AREAS DESIGNATED FOR SHOULDER WIDENING AND FORELSOPE GRADING. SEE
		SHEET B3 FOR DETAILS AND LOCATIONS. METHOD OF MEASUREMENT SHALL BE FOR REMOVAL AND REPLACEMENT OF EACH SUBDRAIN
		OUTLET. BASIS OF PAYMENT FOR REMOVAL AND REPLACEMENT OF EACH SUBDRAIN OUTLET SHALL BE FULL COMPENSATION FOR
		FURNISHING ALL MATERIALS, EQUIPMENT, AND LABOR, AND FOR PERFORMANCE OF ALL WORK NECESSARY. THIS BID ITEM SHALL
		INCLUDE THE PAVING BLOCK AND "T" POST WITH NO ADDITIONAL MEASUREMENT OR PAYMENT. THIS ITEM SHALL BE COMPLETED IN EACH
		STAGE PRIOR TO PAVING.
-	-	-
66	2599-9999010	('LUMP SUM' ITEM) REMOVE AND RELOCATE EXISTING TILE RISER
		THE CONTRACTOR SHALL BE REQUIRED TO EXCAVATE, REMOVE, RELOCATE, AND REINSTALL EXISTING 6"DIA HICKENBOTTOM STYLE RISER
		TO NEAR THE OUTLET END OF ROADWAY CULVERT EXTENSION. SEE SHEET D5 FOR DETAILS AND LOCATION. METHOD OF MEASUREMENT
		SHALL BE LUMP SUM FOR REMOVAL AND RE-INSTALLATION OF HICKENBOTTOM RISER. BASIS OF PAYMENT SHALL BE LUMP SUM FOR
		REMOVAL AND RE-INSTALLATION OF HICKENBOTTOM RISER AND SHALL BE FULL COMPENSATION FOR FURNISHING ALL MATERIALS,
		EQUIPMENT, AND LABOR, AND FOR PERFORMANCE OF ALL WORK NECESSARY. THIS ITEM SHALL BE COMPLETED IN EACH STAGE PRIOR TO
		PAVING.
-	-	-
70	2601-2638352	SLOPE PROTECTION, WOOD EXCELSIOR MAT
		PLACE ON ENTIRE 4:1 BACKSLOPE FROM STATION 509+50 LT TO STATION 513+50 LT.
-	-	-
73	2602-0000020	SILT FENCE
		SEE SHEET C6 FOR TABULATION. EXACT LOCATIONS WILL BE DETERMINED, AS NEEDED, IN THE FIELD PRIOR TO, DURING, AND AFTER
		CONSTRUCTION.
-	-	-
74	2602-0000030	SILT FENCE FOR DITCH CHECKS
		SEE SHEET C6 FOR TABULATION. EXACT LOCATIONS WILL BE DETERMINED, AS NEEDED, IN THE FIELD PRIOR TO, DURING, AND AFTER
		CONSTRUCTION.
-	-	-
75	2602-0000071	REMOVAL OF SILT FENCE OR SILT FENCE FOR DITCH CHECKS
		QUANTITY ESTIMATE BASED ON 30% OF SILT FENCE AND SILT FENCE FOR DITCH CHECK ITEMS.
-	-	-
76	2602-0000101	MAINTENANCE OF SILT FENCE OR SILT FENCE FOR DITCH CHECK
		SEE SHEET C6 FOR TABULATION. THIS BID ITEM INCLUDES 800 L.F. ESTIMATE FOR SILT FENCE AND 1385 L.F. ESTIMATE FOR
		SEDIMENT CONTROL DEVICES.
-	-	-
77	2602-0000312	PERIMETER AND SLOPE SEDIMENT CONTROL DEVICE, 12 IN. DIA.
		SEE SHEET C7 FOR TABULATION. EXACT LOCATIONS WILL BE DETERMINED, AS NEEDED, IN THE FIELD PRIOR TO, DURING, AND AFTER
		CONSTRUCTION.
-	-	-
78	2602-0000350	REMOVAL OF PERIMETER AND SLOPE SEDIMENT CONTROL DEVICE
		QUANTITY ESTIMATE BASED ON 30% OF SEDIMENT CONTROL DEVICE ITEM.
-	-	-
79	2602-0010010	MOBILIZATIONS, EROSION CONTROL
		QUANTITY ESTIMATE BASED ON 2 MOBILIZATIONS PER STAGE.
-	-	-

105-4
10-18-11

STANDARD ROAD PLANS

The following Standard Road Plans apply to construction work on this project.

Number	Date	Title
DR-101	04-18-17	Pipe Culvert (Bedding and Backfill)
DR-102	04-21-15	Pipe Culvert (Cover and Camber)
DR-103	04-21-15	Pipe Culvert (Installation Details)
DR-104	04-19-16	Depth of Cover Tables for Concrete and Corrugated Pipe
DR-121	10-17-17	Connected Pipe Joints
DR-122	10-18-16	Construction of Type "C" Concrete Adaptors for Pipe Culvert Connections
DR-201	10-16-18	Concrete Aprons
DR-211	04-21-15	Metal Safety Slope Apron 6:1 Slope
DR-303	10-17-17	Subdrains (Longitudinal)
DR-306	10-16-18	Precast Concrete Headwall for Subdrain Outlets
DR-601	04-18-17	Reinforced Concrete Pipe Culvert
DR-621	04-18-17	Pipe Extension
EC-201	10-15-19	Silt Fence
EC-204	04-18-17	Perimeter and Slope Sediment Control Devices
EC-301	10-18-16	Rock Erosion Control (REC)
EC-502	04-21-15	Seeding in Rural Areas
EW-101	10-17-17	Embankment and Rebuilding Embankments
EW-102	10-20-15	Allowable Placement of Unsuitable Soil in Embankments
EW-103	10-20-15	Embankment Subgrade Treatment, Moisture Density Control and Special Compaction
EW-501	10-20-15	Rural Entrance
MI-210	10-20-15	PCC Driveways and Alleys
MI-220	10-20-15	Detectable Warnings and Pedestrian Ramp
PM-110	10-16-18	Line Types
PM-120	10-21-14	Stop Lines and Islands
PV-101	04-16-19	Joints
PV-102	10-18-16	PCC Curb Details
PV-301	04-19-11	Superelevation Details Two Lane Roadway
SW-101	04-17-18	Trench Bedding and Backfill Zones
SW-102	04-16-19	Rigid Gravity Pipe Trench Bedding
SW-507	04-17-18	Single Open-Throat Intake, Small Box
SW-602	04-21-15	Castings for Storm Sewer Manholes
TC-1	10-15-19	Work Not Affecting Traffic (Two-Lane or Multi-Lane)
TC-202	04-21-15	Work Within 15 ft of Traveled Way
TC-212	10-15-19	Spot Location Lane Closure with Flaggers
TC-213	10-15-19	Lane Closure with Flaggers
TC-233	10-17-17	Pavement Marking Operations Two-Lane
TC-252	04-19-16	Routes Closed to Traffic
TC-601	10-15-19	Pedestrian Detour

111-25
10-18-11

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MUSC-3	CERTIFIED PLANT INSPECTION NOTE	C1
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MUSC-6	MAINTAIN ACCESS NOTE	C1
MUSC-8	HAUL ROADS NOTE	C1
MUSC-10	GENERAL NOTES	C1
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104-3
10-17-17

DRAINAGE STRUCTURE BY ROAD CONTRACTOR

Length of unclassified pipe calculated is based on using Reinforced Concrete Pipe.
* Not a bid item
(1) Diameter or equivalent diameter
(2) UNCL = Unclassified Pipe CMP = Corrugated Metal Pipe RCP = Reinforced Concrete Pipe LCP = Arch or Elliptical Low Clearance Pipe SARC = Steel Arch Pipe
(3) Backfill according to DR-101

Drainage Area	Location	Type	Size (1)	Kind Of Pipe (2)	Length New Const.	Bedding Class	Design Cover (H)	Camber* (DR-102)	Apron No.		Apron Guard* (DR-213)	Elbow* (DR-141)	Diaphragm* (DR-501)	Tee Section* (DR-142)	"D" Section* (DR-141)	Reducer*	Type 'C' Connections* (DR-122)		Connected Pipe Joint* (DR-121)	4" Perforated Subdrain*	Flow Line Elevations				Dimensions Lin. Ft. Total		Dimensions Lin. Ft. Extensions		Skew Ahead Degrees		Dike				Class 20	Flowable Mortar	Floodable* Backfill (A)	Porous* Backfill (B)	Flooded Backfill (3) (A+B)	Remarks
																															Rt. / Lt.	Location Station	Top Elevation	Type						
ACRE			IN		LF		FT	FT	IN	OUT	No.	No.	No.	No.	No.	No.	Type	No.	Type	FT	Lt.	Rt.	Other	Other	Lt.	Rt.	Lt.	Rt.	Lt.	Rt.	Lt.				CY	CY	CY	CY	CY	
7.0	499+31.00		24	RCP																																				UAC SHEET D2
13.0	510+80.00		26	UNCL																																				SHEET D3
	534+24.00	2000D	24	RCP	66	B	5.3	0.17		1							C-4	1	Type 2		556.76	556.04			32.9	39.3									132.0	41.0				SHEET D5
**	535+23.00		18	RCP	64	B	3.4	0.08											Type 2		560.05				32.8				1						52.0	14.0				SHEET D5
	535+22.00	2000D	18	RCP	4	B	3.4	0.08		1									Type 2			557.09				43.2			1						8.0					SHEET D5
	537+54.00	2000D	18	RCP	72	B	5.1	0.17		1							C-4	1	Type 2		562.65	561.87			32.7	45.4									129.0	39.0				SHEET D6
155.0	539+68.00		30	RCP																																				UAC SHEET D6
**	REMOVE/RELAY EXISTING RCP																																		321.0	94.0				TOTALS

POLLUTION PREVENTION PLAN

This project is regulated by the requirements of the Iowa Department of Natural Resources (DNR) National Pollutant Discharge Elimination System (NPDES) General Permit No. 2 OR an Iowa Department of Natural Resources (DNR) National Pollutant Discharge Elimination System (NPDES) individual storm water permit. The Contractor shall carry out the terms and conditions of this permit and the Pollution Prevention Plan (PPP).

This Base PPP includes information on Roles and Responsibilities, Project Site Description, Controls, Maintenance Procedures, Inspection Requirements, Non-Storm Water Controls, Potential Sources of Off Right-of-Way Pollution, and Definitions. This plan references other documents rather than repeating the information contained in the documents. A copy of this Base Pollution Prevention Plan, amended as needed per plan revisions or by contract modification, will be readily available for review.

All contractors shall conduct their operations in a manner that controls pollutants, minimizes erosion, and prevents sediments from entering waters of the state and leaving the highway right-of-way. The prime contractor shall be responsible for compliance and implementation of the PPP for their entire contract. This responsibility shall be further shared with subcontractors whose work is a source of potential pollution as defined in this PPP.

I. ROLES AND RESPONSIBILITES

A. Designer:
1. Prepares Base PPP included in the project plan.
2. Prepares Notice of Intent (NOI) submitted to Iowa DNR.
3. Is signature authority on the Base PPP.

B. Contractor:
1. Signs a co-permittee certification statement adhering to the requirements of the NPDES permit and this PPP. All co-permittees are legally required under the Clean Water Act and the Iowa Administrative Code to ensure compliance with the terms and conditions of this PPP.
2. Designates a Water Pollution Control Manager (WPCM), who has the duties and responsibilities as defined in Section 2602 of the Standard Specifications.
3. Submits an Erosion Control Implementation Plan (ECIP) and ECIP updates according to Section 2602 of the Standard Specifications.
4. Installs and maintains appropriate controls. This work may be subcontracted.
5. Supervises and implements good housekeeping practices.
6. Conducts joint required inspections of the site with inspection staff. When Contractor is not mobilized on site, Contractor may delegate this responsibility to a trained or certified subcontractor. Contracting Authority also may waive joint inspection requirement during winter shutdown. In both circumstances, WPCM (or trained or certified delegate from the Contractor) is still responsible to review and sign inspection reports.
7. Complies with training and certification requirements of Section 2602 of the Standard Specifications.

C. Subcontractors:
1. Sign a co-permittee certification statement adhering to the requirements of the NPDES permit and this PPP if responsible for sediment or erosion controls or involved in land disturbing activities. All co-permittees are legally required under the Clean Water Act and the Iowa Administrative Code to ensure compliance with the terms and conditions of this PPP.
2. Implement good housekeeping practices.

D. RCE/Project Engineer:
1. Is Project Storm Water Manager.
2. Takes actions necessary to ensure compliance with storm water requirements including, where appropriate, issuing stop work orders, and directing additional inspections at construction project sites that are experiencing problems with achieving permit compliance.
3. Orders the taking of measures to cease, correct, prevent, or minimize the consequences of non-compliance with the storm water requirements of the Applicable Permit.
4. Supervises all work necessary to meet storm water requirements at the Project, including work performed by contractors and subcontractors.
5. Requires employees, contractors, and subcontractors to take appropriate responsive action to comply with storm water requirements, including requiring any such person to cease or correct a violation of storm water requirements, and to order or recommend such other actions as necessary to meet storm water requirements.
6. Is familiar with the Project PPP and storm water site map.
7. Is the point of contact for the Project for regulatory officials, Inspector, contractors, and subcontractors regarding storm water requirements.
8. Is signature authority on Notice of Discontinuation.

E. Inspector:
1. Updates PPP whenever there is a change in design, construction, operation, or maintenance which has a significant effect on the discharge of pollutants from the project.
2. Maintains an up-to-date record that identifies contractors and subcontractors as co-permittees.
3. Makes these plans available to the DNR upon their request.
4. Conducts joint required inspections of the site with the contractor/subcontractor.
5. Completes an inspection report after each inspection.
6. Is signature authority on storm water inspection reports.

II. PROJECT SITE DESCRIPTION

A. This Pollution Prevention Plan (PPP) is for the construction of a PCC Overlay and PCC Reconstruction with Grading to realign a portion of 231st Street G28.

B. This PPP covers approximately 56.4 acres with an estimated 25.2 acres being disturbed. The portion of the PPP covered by this contract has 25.2 acres disturbed.

C. The PPP is located in an area of one soil association (Tama-Muscatine-Downs).
The estimated weighted average runoff coefficient number for this PPP after completion will be 0.36.

D. Storm Water Site Map - Multiple sources of information comprise the base storm water site map including:
1. Drainage Patterns – Plan and Profile sheets and Situation plans.
2. Proposed Slopes – Cross Sections.
3. Areas of Soil Disturbance – Construction limits shown on Plan and Profile sheets.
4. Location of Structural Controls – Tabulations in C sheets.
5. Locations of Non-structural Controls – Tabulations in C sheets.
6. Locations of Stabilization Practices – Generally within construction limits shown on Plan and Profile sheets.
7. Surface Waters (including wetlands) – Project Location Map and Plan and Profile sheets.
8. Locations where Storm Water is Discharged – Plan and Profile sheets.

E. The base storm water site map is amended by contract modifications and progress payments (fieldbook entries) of completed erosion control work. Also, due to project phasing, erosion and sediment controls shown on project plans may not be installed until needed, based on site conditions. For example, silt fence ditch checks will typically not be installed until the ditch has been installed. Installed locations may also be modified from tabulation locations by field staff. Installed locations will be documented by fieldbook entries.

F. Runoff from this work will flow into Muscatine Slough.

III. CONTROLS

A. The Contractor’s ECIP specified in Article 2602.03 of the Standard Specifications for accomplishment of storm water controls should clearly describe the intended sequence of major activities, and for each activity define the control measure and the timing during the construction process that the measure will be implemented.

B. Preserve vegetation in areas not needed for construction.

C. Sections 2601 and 2602 of the Standard Specifications define requirements to implement erosion and sediment control measures. Actual quantities used and installed locations may vary from the Base PPP and amendment of the plan will be documented via fieldbook entries or by contract modification. Additional erosion and sediment control items may be required as determined by the inspector and/or contractor during storm water monitoring inspections. If the work involved is not applicable to any contract items, the work will be paid for according to Article 1109.03 paragraph B of the Standard Specifications.

1. EROSION AND SEDIMENT CONTROLS

a. Stabilization Practices
1) Site plans will ensure that existing vegetation or natural buffers are preserved where attainable and disturbed portions of the site will be stabilized.
2) Initialize stabilization of disturbed areas immediately after clearing, grading, excavating, or other earth disturbing activities have:
a) Permanently ceased on any portion of the site, or
b) Temporarily ceased on any portion of the site and will not resume for a period exceeding 14 calendar days.
3) Staged permanent and/or temporary stabilizing seeding and mulching shall be completed as the disturbed areas are completed. Incomplete areas shall be stabilized according to paragraph III, C, 1, a, 2, b above.
4) Permanent and Temporary Stabilization practices to be used for this project are located in the Estimated Project Quantities (100-0A, 100-1A, or 100-1C) and Estimate Reference Information (100-4A) located in the C sheets. Typical drawings detailing construction of the practices to be used on this project are referenced in the Standard Road Plans Tabulation (105-4) in the C sheets.
5) Preservation of existing vegetation within right-of-way or easements will act as vegetative buffer strips.
6) Preservation of topsoil: Bid items to be used for this project are located in the Estimated Project Quantities (100-0A, 100-1A, or 100-1C) and Estimate Reference Information (100-4A) located in the C sheets. Additional information may be found in Tabulations in the C or T sheets or is referenced in Section 2105 of Standard Specifications.

b. Structural Practices
1) Structural practices will be implemented to divert flows from exposed soils and detain or otherwise limit runoff and the discharge of pollutants from exposed areas of the site. Additionally, structural practices may include: silt basins that provide 3600 cubic feet of storage per acre drained or equivalent sediment controls, outlet structures that withdraw water from surface when discharging basins, and controls to direct storm water to vegetated areas.
2) Structural practices to be used for this project are located in the Estimated Project Quantities (100-0A, 100-1A, or 100-1C) and Estimate Reference Information (100-4A) located in the C sheets, as well as all other item specific Tabulations. Typical drawings detailing construction of the devices to be used on this project can be found in the B sheets or are referenced in the Standard Road Plans Tabulation (105-4) located in the C sheets.

c. Storm Water Management
1) Measures shall be installed during the construction process to control pollutants in storm water discharges that will occur after construction operations have been completed. This may include velocity dissipation devices at discharge locations and along length of outfall channel as necessary to provide a non-erosion velocity flow from structure to water course. If included with this project, these items are located in the Estimated Project Quantities (100-0A, 100-1A, or 100-1C) and Estimate Reference Information (100-4A) located in the C sheets, as well as all other item specific Tabulations. Typical drawings detailing construction of the practices to be used on this project are referenced in the Standard Road Plans Tabulation (105-4) in the C sheets. The installation of these devices may be subject to Section 404 of the Clean Water Act.

2. OTHER CONTROLS

a. Contractor disposal of unused construction materials and construction material wastes shall comply with applicable state and local waste disposal, sanitary sewer, or septic system regulations. In the event of a conflict with other governmental laws, rules and regulations, the more restrictive applicable laws, rules or regulations shall apply.
1) Vehicle Entrances and Exits - Construct and maintain entrances and exits to prevent tracking of sediments onto roadways.
2) Material Delivery, Storage and Use - Implement practices to prevent discharge of construction materials during delivery, storage, and use.
3) Stockpile Management - Install controls to reduce or eliminate pollution of storm water from stockpiles of soil and paving.
4) Waste Disposal - Do not discharge any materials, including building materials, into waters of the state, except as authorized by a Section 404 permit.
5) Spill Prevention and Control - Implement chemical spill and leak prevention and response procedures to contain and clean-up spills and prevent material discharges to the storm drain system and waters of the state.
6) Concrete Residuals and Washout Wastes - Waste shall not be discharged to a surface water and is not allowed to adversely affect a water of the state. Designate temporary concrete washout facilities for rinsing out concrete trucks. Provide directions to truck drivers where designated washout facilities are located. Designated washout areas should be located at least 50 feet away from storm drains, streams or other water bodies. Care should be taken to ensure these facilities do not overflow during storm events.
7) Concrete Grooving/Grinding Slurry – Do not discharge slurry to a waterbody or storm drain. Slurry may be applied on foreslopes or removed from the project.
8) Vehicle and Equipment Storage and Maintenance Areas - Perform on site fueling and maintenance in accordance with all environment laws such as proper storage of onsite fuels and proper disposal of used engine oil or other fluids on site. Employ washing practices that prevent contamination of surface and ground water from wash water. Wash waters must be treated in a sediment basin or alternative control that provides equivalent or better treatment prior to discharge.
9) Litter Management - Ensure employees properly dispose of litter. Minimize exposure of trash if exposure to precipitation or storm water would result in a discharge of pollutants.
10) Dewatering – Properly treat water to remove suspended sediment before it re-enters a waterbody or discharges off-site. Measures are also to be taken to prevent scour erosion at dewatering discharge point.

3. APPROVED STATE OR LOCAL PLANS
During the course of this construction, it is possible that situations will arise where unknown materials will be encountered. When such situations are encountered, they will be handled according to all federal, state, and local regulations in effect at the time.

IV. MAINTENANCE PROCEDURES
The Contractor is required to maintain all temporary erosion and sediment control measures in proper working order, including cleaning, repairing, or replacing them throughout the contract period. This shall begin when the features have lost 50% of their

110-12L
04-16-19

POLLUTION PREVENTION PLAN

capacity.

V. INSPECTION REQUIREMENTS

A. Inspections shall be made jointly by the Contractor and the Contracting Authority at least once every seven calendar days. Storm water monitoring inspections will include:
   1. Date of the inspection.
   2. Summary of the scope of the inspection.
   3. Name and qualifications of the personnel making the inspection.
   5. Review of erosion and sediment control measures within disturbed areas for the effectiveness in preventing impacts to receiving waters.
   6. Major observations related to the implementation of the PPP.
   7. Identification of corrective actions required to maintain or modify erosion and sediment control measures.

B. Include storm water monitoring inspection reports in the Amended PPP. Incorporate any additional erosion and sediment control measures determined as a result of the inspection. Immediately begin corrective actions on all deficiencies found within 3 calendar days of the inspection and complete within 7 calendar days following the inspection. If it is determined that making the corrections less than 72 hours after the inspection is impracticable, it should be documented why it is impracticable and indicate an estimated date by which the corrections will be made.

VI. NON-STORM WATER DISCHARGES

This includes subsurface drains (i.e. longitudinal and standard subdrains) and slope drains. The velocity of the discharge from these features may be controlled by the use of headwalls or blocks, Class A stone, erosion stone or other appropriate materials. This also includes uncontaminated groundwater from dewatering operations, which will be controlled as discussed in Section III of the PPP.

VII. POTENTIAL SOURCES OF OFF RIGHT-OF-WAY (ROW) POLLUTION

Silts, sediment, and other forms of pollution may be transported onto highway right-of-way (ROW) as a result of a storm event. Potential sources of pollution located outside highway ROW are beyond the control of this PPP. Pollution within highway ROW will be conveyed and controlled per this PPP.

VIII. DEFINITIONS

A. Base PPP - Initial Pollution Prevention Plan.
B. Amended PPP - May include Plan Revisions or Contract Modifications for new items, storm water monitoring inspection reports, and fieldbook entries made by the inspector.
C. IDR - Inspector's Daily Report - this contains the inspector's daily diary and bid item postings.
D. Controls - Methods, practices, or measures to minimize or prevent erosion, control sedimentation, control storm water, or minimize contaminants from other types of waste or materials. Also called Best Management Practices (BMPs).
E. Signature Authority - Representative authorized to sign various storm water documents.

CERTIFICATION STATEMENT

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

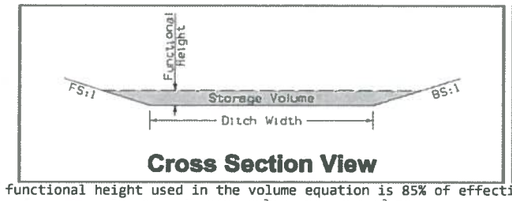
Signature

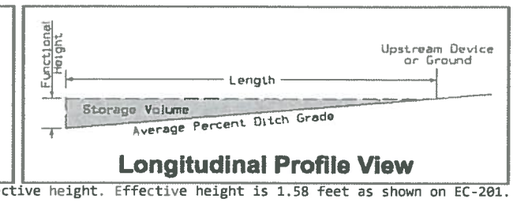
Keith L. White, PE

100-18
10-16-18

SILT FENCES FOR DITCH CHECKS

Possible Standard: EC-201





* The functional height used in the volume equation is 85% of effective height. Effective height is 1.58 feet as shown on EC-201.
* Volume equation: [0.5*Spacing*(0.5*H²*FS+DW*H+0.5*H²*BS)]

Basin No.	Type	Location		Bid Items			Stormwater Storage Volume Summary					Remarks
		Station	Side	Installation LF	Maintenance LF	Removal LF	Foreslope FS:1	Backslope BS:1	Ditch Width FT	Avg.% Slope Ditch Grade	Volume* CF	
1	1	342+00.00	RT	30.0	30.0		4.0	3.0	16.0	0.3%	4378.6	
2	1	343+00.00	RT	30.0	30.0		4.0	3.0	16.0	0.3%	4378.6	
3	1	344+50.00	LT	45.0	45.0		4.0	3.0	31.0	0.3%	7551.5	
4	1	345+50.00	LT	45.0	45.0		4.0	3.0	31.0	0.3%	7551.5	
5	1	346+50.00	RT	30.0	30.0		4.0	3.0	16.0	0.3%	4378.6	
6	1	350+00.00	LT	30.0	30.0		4.0	3.0	16.0	0.9%	2154.6	
7	1	352+50.00	LT	30.0	30.0		4.0	3.0	16.0	0.8%	2154.6	
8	1	355+00.00	LT	30.0	30.0		4.0	3.0	16.0	0.7%	2154.6	
9	1	357+50.00	LT	30.0	30.0		4.0	3.0	16.0	0.7%	2154.6	
10	1	360+00.00	LT	30.0	30.0		4.0	3.0	16.0	0.7%	2154.6	
11	1	362+50.00	LT	30.0	30.0		4.0	3.0	16.0	0.7%	2154.6	
12	1	365+00.00	LT	30.0	30.0		4.0	3.0	16.0	0.7%	2154.6	
13	1	365+00.00	RT	30.0	30.0		4.0	3.0	16.0	0.7%	2154.6	
14	1	367+50.00	RT	30.0	30.0		4.0	3.0	16.0	0.9%	2154.6	
15	1	370+00.00	RT	30.0	30.0		4.0	3.0	16.0	1.1%	1390.0	
16	1	373+00.00	RT	30.0	30.0		4.0	3.0	16.0	1.1%	1390.0	
17	1	375+50.00	RT	30.0	30.0		4.0	3.0	16.0	1.1%	1390.0	
18	1	378+00.00	RT	65.0	65.0		4.0	3.0	51.0	1.1%	3740.3	
19	1	380+00.00	RT	65.0	65.0		4.0	3.0	51.0	0.8%	5797.4	
20	1	382+00.00	RT	65.0	65.0		4.0	3.0	51.0	0.5%	11781.9	
21	1	404+00.00	LT	35.0	35.0		4.0	3.0	21.0	1.8%	1294.3	
22	1	405+00.00	LT	35.0	35.0		4.0	3.0	21.0	1.8%	1294.3	
23	1	410+00.00	LT	30.0	30.0		4.0	3.0	16.0	1.8%	1042.5	
24	1	413+50.00	LT	40.0	40.0		4.0	3.0	26.0	0.4%	6493.8	
25	1	414+50.00	LT	40.0	40.0		4.0	3.0	26.0	1.4%	2061.5	
26	1	499+00.00	LT	38.0	38.0		4.0	3.0	24.0	0.4%	6070.8	
27	1	502+00.00	LT	38.0	38.0		4.0	3.0	24.0	1.0%	2987.2	
28	1	505+00.00	LT	38.0	38.0		4.0	3.0	24.0	1.0%	2987.2	
29	1	508+00.00	LT	38.0	38.0		4.0	3.0	24.0	5.9%	481.8	
30	1	516+00.00	LT	22.0	22.0		4.0	4.0	6.0	2.6%	381.8	
31	1	516+50.00	LT	22.0	22.0		4.0	4.0	6.0	2.6%	381.8	
32	1	520+00.00	LT	22.0	22.0		4.0	4.0	6.0	1.0%	1183.6	
33	1	521+00.00	LT	22.0	22.0		4.0	4.0	6.0	1.0%	1183.6	
34	1	522+00.00	LT	22.0	22.0		4.0	4.0	6.0	1.0%	1183.6	
				1177.0	1177.0	TOTALS					102147.7	

100-23
04-17-18

ROCK EROSION CONTROL

Refer to EC-301 and Detail 570-8

Location						Rock Erosion Control (REC)					Material Bid Quantities			Remarks
Road Identification	Begin Station	End Station	Side Lt./Rt.	L FT	W FT	Type 1 Rock Ditch Check	Type 2 Rock Ditch	Type 3 Rock Flume	Type 4 Rock Splash Basin	Type 5 Rock Slope Protection	Eng. Fabric SY	Class E Revetment TON	Erosion Stone TON	
231ST STREET	509+45.00	514+28.00	LT	483	22		X				1198.3		648.0	SEE SHEET D3
231ST STREET	517+00.00	517+25.00	LT	25	27		X				103.4	84.0		SEE SHEET D4
231ST STREET	517+38.00	517+75.00	LT	37	30		X				126.0	102.0		SEE SHEET D4
											1427.7	186.0	648.0	TOTALS

100-17
04-20-10

TABULATION OF SILT FENCES

Refer to EC-201

Location			Length	Remarks
Begin Station	End Station	Side	LF	
349+00.00	353+00.00	RT	400.0	PLACE 1' INSIDE ROW
373+50.00	377+50.00	RT	400.0	*PLACE 1'± BEYOND TOE
527+00.00	539+00.00	RT	1200.0	PLACE 1' INSIDE ROW
540+10.00	546+75.00	RT	665.0	PLACE 1' INSIDE ROW
				CURVE INTO FORESLOPE
				* DESIGN TOE
			2665.0	TOTAL

100-19
04-19-16

PERIMETER AND SLOPE SEDIMENT CONTROL DEVICE

Possible Standards: EC-204

Location			Length of Installation			Remarks
Begin Station	End Station	Side	9 inch Dia	12 inch Dia	20 inch Dia	
			LF	LF	LF	
353+82.00		LT		10.0		PLACE AROUND ENTRANCE CULVERT INLET
371+37.00		RT		10.0		PLACE AROUND ENTRANCE CULVERT INLET
415+13.00		LT		10.0		PLACE AROUND ENTRANCE CULVERT INLET
498+00.00		LT		50.0		DITCH CHECK
498+00.00		RT		26.0		DITCH CHECK
499+38.00		RT		20.0		PLACE AROUND TOP OF DRAW
499+48.00		RT		30.0		PLACE AROUND TOP OF DRAW
500+00.00		LT		50.0		DITCH CHECK
500+00.00		RT		26.0		DITCH CHECK
502+00.00		LT		50.0		DITCH CHECK
502+00.00		RT		26.0		DITCH CHECK
504+00.00		LT		50.0		DITCH CHECK
504+00.00		RT		26.0		DITCH CHECK
506+00.00		LT		50.0		DITCH CHECK
506+00.00		RT		26.0		DITCH CHECK
507+50.00		LT		50.0		DITCH CHECK
507+50.00		RT		26.0		DITCH CHECK
508+44.00		LT		10.0		PLACE AROUND PROPOSED ENTRANCE CULVERT INLET
509+30.00	513+70.00	LT		440.0		PLACE ON COMPLETED SLOPE 75' LT OF CENTERLINE
510+30.00	513+00.00	LT		270.0		PLACE ON COMPLETED SLOPE 125' LT OF CENTERLINE
509+00.00	514+50.00	RT		550.0		PLACE ALONG TOP OF EXISTING OUTSIDE SHOULDER/FINISH DES SLOPE
514+26.00		LT		10.0		PLACE AROUND PROPOSED ENTRANCE CULVERT INLET
517+04.00		RT		75.0		PLACE ALONG TOP OF CREEK
517+50.00		RT		55.0		PLACE ALONG TOP OF CREEK
519+11.00		LT		10.0		PLACE AROUND PROPOSED ENTRANCE CULVERT INLET
522+00.00	538+68.00	LT		1668.0		PLACE 1' ALONG AND OUTSIDE TOP OF CURB
523+95.00		LT		10.0		PLACE ALONG INTAKE THROAT.
523+95.00		RT		10.0		PLACE ALONG INTAKE THROAT.
532+34.00		LT		35.0		PLACE AROUND INTAKE. PLACE ALONG INTAKE THROAT.
532+95.00		LT		35.0		PLACE AROUND INTAKE. PLACE ALONG INTAKE THROAT.
532+95.00		RT		35.0		PLACE AROUND INTAKE. PLACE ALONG INTAKE THROAT.
539+86.00	545+82.00	LT		596.0		PLACE 1' ALONG AND OUTSIDE TOP OF CURB
545+14.00		LT		35.0		PLACE AROUND INTAKE. PLACE ALONG INTAKE THROAT.
545+13.00		RT		35.0		PLACE AROUND INTAKE. PLACE ALONG INTAKE THROAT.
545+37.00		LT		10.0		PLACE AROUND ROADWAY CULVERT INLET
545+82.00	547+75.00	LT		193.0		PLACE 1' ALONG AND OUTSIDE TOP OF CURB
				4618.0		TOTAL

103-10
04-18-17

TOPSOIL STRIPPING AND PLACEMENT

Location				Topsoil Stripping Thickness	Topsoil Placement Thickness	Remarks
Road Identification	Dir. of Traffic	Begin Station	End Station	IN	IN	
231ST STREET	EAST	342+00.00	350+50.00	6.0	6.0	RT SIDE
231ST STREET	EAST	343+50.00	364+00.00	6.0	6.0	LT SIDE
231ST STREET	EAST	365+75.00	383+75.00	6.0	6.0	RT SIDE
231ST STREET	EAST	405+00.00	415+25.00	6.0	6.0	LT SIDE
231ST STREET	EAST	497+00.00	509+00.00	6.0	6.0	RT SIDE
231ST STREET	EAST	497+00.00	546+75.00	6.0	6.0	LT SIDE
231ST STREET	EAST	515+75.00	520+75.00	6.0	6.0	RT SIDE
231ST STREET	EAST	525+50.00	546+75.00	6.0	6.0	RT SIDE

110-1
04-16-13

REMOVAL OF PAVEMENT

Refer to Tabulation 102-5

* Not a Bid Item

Begin Station	End Station	Side	Pavement Type	Area	Saw Cut*	Remarks
				SY	LF	
+13.50	2+00.00	BOTH	HMA	649.8	168.0	HIGH PRAIRIE ROAD, SEE SHEET L1
417+00.00	454+50.00	BOTH	HMA	9166.7	44.0	231ST STREET, SEE SHEETS B1 & B2
1000+09.69	1000+93.35	BOTH	SEAL COAT	424.0	172.0	FUNKS HILL ROAD, SEE SHEET L2
497+50.00	512+75.00	BOTH	HMA	3727.8	44.0	231ST STREET, SEE SHEETS B1, B2, & B3
512+75.00	522+00.00	BOTH	PCC	2261.1	44.0	231ST STREET, SEE SHEETS B1, B2, & B3
1005+59.34	1006+54.70	BOTH	SEAL COAT	395.3	172.0	BURLINGTON ROAD, SEE SHEET L7
522+00.00	546+75.00	BOTH	PCC	8525.0	62.0	** 231ST STREET, SEE SHEETS B1, B2, & B3
						** INCLUDES CURB AND GUTTER
				25149.7	706.0	TOTALS

110-2
04-16-13

REMOVAL OF EXISTING STRUCTURES

Location	Description	Remarks
STA 508+75 LT	18"x186' ENTRANCE CMP	DISPOSE OF OFF-SITE. SEE SHEET D3.
STA 514+62 LT	36"x68' ENTRANCE CMP	DISPOSE OF OFF-SITE. SEE SHEETS D3 & L7.
STA 515+81 LT	30"x26' ENTRANCE CMP	DISPOSE OF OFF-SITE. SEE SHEET D3.
STA 518+68 LT	30"x54' ENTRANCE CMP	DISPOSE OF OFF-SITE. SEE SHEET D4.
STA 523+95 17'LT	4'x5' STORM SEWER INTAKE	DISPOSE OF OFF-SITE. SEE SHEET D4.
STA 532+34 17'LT	4'x5' STORM SEWER INTAKE TOP	INCLUDES SAW CUTS. DISPOSE OF OFF-SITE. SEE SHEET D5.
STA 532+95 17'LT	4'x5' STORM SEWER INTAKE TOP	INCLUDES SAW CUTS. DISPOSE OF OFF-SITE. SEE SHEET D5.
STA 532+95 17'RT	4'x5' STORM SEWER INTAKE TOP	INCLUDES SAW CUTS. DISPOSE OF OFF-SITE. SEE SHEET D5.
STA 534+20	18"x20' ROADWAY CMP	DISPOSE OF OFF-SITE. SEE SHEET D5.
STA 537+51	18"x20' ROADWAY CMP	DISPOSE OF OFF-SITE. SEE SHEET D6.
STA 545+14 17'LT	4'x5' STORM SEWER INTAKE TOP	INCLUDES SAW CUTS. DISPOSE OF OFF-SITE. SEE SHEETS D6.
STA 545+13 17'RT	4'x5' STORM SEWER INTAKE TOP	INCLUDES SAW CUTS. DISPOSE OF OFF-SITE. SEE SHEETS D6.
STA 497+50 TO STA 522+00	6"x6' CMP SUBDRAIN OUTLETS, POST, & BLOCK	19 EACH ±, DISPOSE OF OFF-SITE.

110-08
04-17-18

REMOVAL OF CONCRETE DRIVES

* Not a Bid Item

Location		Area	Saw Cut*	Remarks
Station	Side	SY	LF	
425+54.00	RT	36.3	98.0	ADDRESS 2253, SEE SHEET L3
430+26.00	RT	55.4	114.0	PENNY LANE, SEE SHEET L3
439+46.00	LT	42.4	59.0	ADDRESS 2238, SEE SHEET L3
442+04.00	LT	55.8	81.0	ADDRESS 2225, SEE SHEET L3
449+30.00	LT	33.8	61.0	TIMBER RIDGE, SEE SHEET L4
451+94.00	LT	144.7	140.0	OAK TREE, SEE SHEET L4
457+38.00	LT	133.8	119.0	N. HILLTOP, SEE SHEET L4
457+40.00	RT	117.7	147.0	RIDGEVIEW, SEE SHEET L4
470+97.00	LT	70.2	141.0	KINCAID, SEE SHEET L5
479+74.00	RT	94.3	12.0	ADDRESS 2230, SEE SHEET L6
492+75.00	LT	191.2	174.0	HICKORY HILLS, SEE SHEET L6
495+88.00	LT	450.3	148.0	SEVEN SPRINGS, SEE SHEET L6
496+03.00	RT	77.8	80.0	ADDRESS 2234, SEE SHEET L6
514+62.00	LT	268.2	101.0	ADDRESS 2371, SEE SHEET L7
518+68.00	LT	261.9	113.0	ENTRANCE, SEE SHEET D4
523+50.00	RT	246.2	147.0	ADDRESS 2392, SEE SHEET L8
525+20.00	RT			ADDRESS 2392, SEE SHEET L8
539+27.00	LT	78.3	220.0	LUTHERAN DR, SEE SHEET L8
		2358.3	1955.0	TOTALS

102-3
10-16-18

ACCESS POINTS AND SAFETY RAMPS

Refer to Cross-Sections

Length of Unclassified Pipe calculated is based on using Corrugated Metal Pipe.
(1) Refer to MI-210
(2) Refer to EW-501.
(3) Refer to EW-501 or EW-502.
*Predetermined for access point not constructed with this project.

Location		Type	Length of Opening (1)			W	(1) (2) PR	(2) SR	Pipe Culvert (3)					Aprons	Driveway Surface Area		Driveway Surfacing Material	Remarks
Station	Side	A, B, C, Safety Ramp, or Predetermined*	Case	1½" Dropped Curb	3" Dropped Curb				H	Size	Pipe Length	Lt.	Rt.		HMA	PCC		
			1 or 2	LF	LF	FT	FT	FT	FT	IN	LF	LF	LF	No.	SY	SY	TON	
VARIOUS	BOTH	C															270.000	GRANULAR DRIVEWAYS & FIELD
																		ENTRANCES, STA 342+00 TO
																		STA 497+50.
425+54.00	RT	C														35.0		SEE SHEET L3
430+26.00	RT	C														56.4		SEE SHEET L3
439+46.00	LT	C														36.2		SEE SHEET L3
442+04.00	LT	C														53.2		SEE SHEET L3
449+30.00	LT	C														47.2		SEE SHEET L4
451+94.00	LT	B														149.0		SEE SHEET L4
457+38.00	LT	B														139.8		SEE SHEET L4
457+40.00	RT	B														105.5		SEE SHEET L4
470+97.00	LT	A														368.8		SEE SHEET L5
479+74.00	RT	C														94.3		SEE SHEET L6
492+75.00	LT	B														156.0		SEE SHEETS D1 & L6
495+88.00	LT	A														362.9		SEE SHEETS D1 & L6
496+03.00	RT	C														73.2		SEE SHEETS D1 & L6
508+75.00	LT	C				24.0		15.0	5.9	18.0	92.0	66.0	26.0	2			30.000	SEE SHEET D3
514+62.00	LT	B				28.0	25.0	25.0	5.0	42.0	38.0	21.0	17.0	2		183.4		SEE SHEETS D3 & L7
518+33.00	RT	C															15.000	U.A.C. SEE SHEET D4
518+68.00	LT	C				24.0		15.0	7.0	36.0	72.0	31.0	41.0	2			30.000	SEE SHEET D4
521+11.00	RT	B															15.000	U.A.C. SEE SHEET D4
523+50.00	RT	B	1		42.0	22.0	10.0									250.8		SEE SHEETS D4 & L8
525+20.00	RT	B	1		42.0	25.0	10.0											SEE SHEETS D4 & L8
526+58.00	LT	C			30.0	20.0												U.A.C. SEE SHEET D4
526+82.00	RT	C			34.0	24.0												U.A.C. SEE SHEET D4
539+27.00	LT	B	1		117.0	98.0	10.0									76.7		SEE SHEETS D6 & L8
540+00.00	RT	C			30.0	20.0											15.000	U.A.C. SEE SHEET D6
					295.0									6		2188.4	375.000	TOTALS

108-13A
08-01-08

SAFETY CLOSURES

Refer to Section 2518 of the Standard Specifications

Station	Closure Type		Remarks
	Road Qty.	Hazard Qty.	
341+50.00	1		STAGE 1, BOP
2+50.00	1		STAGE 1, HIGH PRAIRIE RD
417+95.00	1		STAGE 1, W 1/2 FUNKS HILL
1000+00.00	1		STAGE 1, W 1/2 FUNKS HILL
417+95.00	1		STAGE 2, E 1/2 FUNKS HILL
1000+00.00	1		STAGE 2, E 1/2 FUNKS HILL
457+38.00	1		STAGE 2, W 1/2 N. HILLTOP
	1		STAGE 2, W 1/2 N. HILLTOP
	1		STAGE 2, W 1/2 RIDGEVIEW
457+38.00	1		STAGE 3, E 1/2 N. HILLTOP
	1		STAGE 3, E 1/2 N. HILLTOP
	1		STAGE 3, E 1/2 RIDGEVIEW
470+80.00	1		STAGE 3, W 1/2 KINCAID
	1		STAGE 3, W 1/2 KINCAID
470+80.00	1		STAGE 4, E 1/2 KINCAID
			STAGE 4, E 1/2 KINCAID
492+75.00	1		STAGE 4, W 1/2 HICKORY H.
	1		STAGE 4, W 1/2 HICKORY H.
492+75.00	1		STAGE 5, E 1/2 HICKORY H.
	1		STAGE 5, E 1/2 HICKORY H.
495+88.00	1		STAGE 5, SEVEN SPRINGS RD
515+00.00	1		STAGE 5, W 1/2 BURLINGTON
1005+00.00	1		STAGE 5, W 1/2 BURLINGTON
515+00.00	1		STAGE 6, E 1/2 BURLINGTON
1005+00.00	1		STAGE 6, E 1/2 BURLINGTON
525+20.00	1		STAGE 6, ADDRESS 2392
525+20.00	1		STAGE 7, ADDRESS 2392
539+27.00	1		STAGE 7, W 1/2 LUTHERAN DR
	1		STAGE 7, W 1/2 LUTHERAN DR
537+27.00	1		STAGE 8, E 1/2 LUTHERAN DR
	1		STAGE 8, E 1/2 LUTHERAN DR
547+25.00	1		STAGE 8, EOP
	31		TOTAL

110-9
10-18-11

CULVERT ABANDONMENT

Refer to Details 4315 and 4316

* Not a bid item

Location Station	Description	Fill Material		4" Perforated Subdrain*	Remarks
		Flowable Mortar	Granular Backfill*		
		CY	TON	LF	
510+80.00	26"x110' HDPE PIPE LINER	15.0			THIS LINER IS INSIDE 30" CMP. SEE SHEET D3.
534+20.00	18"x174' CMP	3.0			PLUG SOUTH 44'±. SEE SHEET D5.
537+51.00	18"x70' CMP	3.5			PLUG SOUTH 50'±. SEE SHEET D6.
	TOTAL	21.5			

110-14
04-16-13

SANITARY OR STORM SEWER ABANDONMENT OR REMOVAL

* Not a bid item

Location/Description	Sanitary or Storm Sewer	Abandonment, Plug Only or Abandonment, Plug and Fill or Removal	Length of Pipe		Fill Material*	Remarks
			≤ 36 inch diameter	> 36 inch diameter	Flowable Mortar or CLSM	
			LF	LF	CY	
STA 523+03 27.5'LT TO STA 523+95 17'LT, 12"x90' CMP	Storm Sewer	Removal	20			SEE SHEET D4.
STA 523+03 27.5'LT TO STA 523+95 17'LT, 12"x90' CMP	Storm Sewer	Abandonment, Plug and Fill	70		2.0	SEE SHEET D4.

108-22
04-16-13

PAVEMENT MARKING LINE TYPES

See PM-110

*BCY4 - Place on the same side of the roadway to match existing markings near the project.
**NPY4 - For estimating purposes only. No Passing Zone Lines will be located in the field.
***MNY4 - Factor of 1.00 as value includes number of 4-inch passes to cover median nose area.

BCY4: Broken Centerline (Yellow) @ 0.25
DCY4: Double Centerline (Yellow) @ 2.00
NPY4: No Passing Zone Line (Yellow) @ 1.25
BLW4: Broken Lane Line (White) @ 0.25
ELW4: Edge Line Right (White) @ 1.00
ELY4: Edge Line Left (Yellow) @ 1.00
SLW2: Stop Line (White) @ 6.00

Location								Length by Line Type (Unfactored)															Remarks
Road ID	Station to Station		Dir. of Travel	Marking Type	Side			BCY4*	DCY4	NPY4**	BLW4	ELW4	ELY4	SLW2									
					L	C	R	STA	STA	STA	STA	STA	STA	STA	STA	STA	STA	STA	STA	STA	STA	STA	
231ST STREET	341+00.00	343+94.00	EB	Durable Paint				2.94															
231ST STREET	343+94.00	354+41.00	EB	Durable Paint			X			10.47													
231ST STREET	354+41.00	378+23.00	EB	Durable Paint	X		X		23.82														
231ST STREET	378+23.00	387+80.00	EB	Durable Paint	X					9.57													
231ST STREET	387+80.00	401+80.00	EB	Durable Paint				14.00															
231ST STREET	401+80.00	408+20.00	EB	Durable Paint			X			6.40													
231ST STREET	408+20.00	413+97.00	EB	Durable Paint	X		X		5.77														
231ST STREET	413+97.00	423+05.00	EB	Durable Paint	X					9.08													
231ST STREET	423+05.00	441+32.00	EB	Durable Paint				18.27															
231ST STREET	441+32.00	450+40.00	EB	Durable Paint			X			9.08													
231ST STREET	450+40.00	456+03.00	EB	Durable Paint	X		X		5.63														
231ST STREET	456+03.00	465+73.00	EB	Durable Paint	X					9.70													
231ST STREET	465+73.00	478+26.00	EB	Durable Paint				12.53															
231ST STREET	478+26.00	488+69.00	EB	Durable Paint			X			10.43													
231ST STREET	488+69.00	518+00.00	EB	Durable Paint	X		X		29.31														
231ST STREET	518+00.00	520+70.00	EB	Durable Paint	X					2.70													
231ST STREET	520+70.00	531+25.00	EB	Durable Paint				10.55															
231ST STREET	531+25.00	537+00.00	EB	Durable Paint			X			5.75													
231ST STREET	537+00.00	547+75.00	EB	Durable Paint	X		X		10.75														
231ST STREET	341+00.00	547+75.00	EB	Durable Paint								202.75											
231ST STREET	341+00.00	547+75.00	WB	Durable Paint								200.35											
HIGH PRAIRIE	+13.50	3+00.00	NB	Durable Paint	X		X		2.87			5.74											
HIGH PRAIRIE	+23.50		NB	Durable Paint	X									0.31									
FUNKS HILL	1000+09.69	1000+93.35	NB	Durable Paint	X		X		0.84			1.68											
FUNKS HILL	1000+83.35		NB	Durable Paint			X							0.27									
BURLINGTON	1005+59.34	1006+54.70	NB	Durable Paint	X		X		0.95			1.90											
BURLINGTON	1006+44.70		NB	Durable Paint			X							0.35									
				Factored Total: Durable Paint				14.57	159.88	91.48	-	412.42	-	5.58	-	-	-	-	-	-	-	-	
												618.63	50% Inc.										
				Bid Quantity: Painted Pavement Markings, Durable							890.14												

110-17
04-18-17

CLEARING AND GRUBBING

Location			Trees, Stumps, and Logs and Down Timber Material Diameters													All Other Materials		Estimated Quantities			Remarks
Station to Station or Ref. Loc. Sign to Ref. Loc. Sign or Description	Direction of Travel	Work and Material Type	3"-6"	>6"-9"	>9"-12"	>12"-15"	>15"-18"	>18"-24"	>24"-30"	>30"-36"	>36"-42"	>42"-48"	>48"-60"	>60"-72"	>72"	Length	Width	Units	Area	Herbicide Application	
																FT	FT	Units	Acres	Each	
STA 342+00 TO STA 350+50	EB/RT SIDE	Brush - Clearing																	0.5		
STA 373+00 TO STA 377+00	EB/RT SIDE	Trees - Clearing and Grubbing																	0.5		
STA 405+00 TO STA 415+25	EB/LT SIDE	Trees - Clearing and Grubbing																	0.8		
STA 497+00 TO STA 509+00	EB/RT SIDE	Brush - Clearing																	0.7		
STA 508+00 TO STA 523+00	EB/LT SIDE	Trees - Clearing and Grubbing																	3.4		
STA 515+75 TO STA 520+75	EB/RT SIDE	Brush - Clearing																	0.4		
STA 527+00 TO STA 533+00	EB/RT SIDE	Brush - Clearing																	0.4		
STA 527+00 TO STA 533+00	EB/RT SIDE	Trees - Clearing and Grubbing																	0.6		
STA 527+00 TO STA 533+00	EB/RT SIDE	Brush - Clearing																	0.7		
																			8.0		TOTAL

232-10
04-18-17

EMERALD ASH BORER

Any living, dead, cut or fallen material of the ash (Fraxinus spp.) including trees, nursery stock, logs, firewood, stumps, roots, branches, and composted or uncomposted ash chips can be freely moved within the yellow areas of the most recent Federal EAB Quarantine & Authorized Transit.

https://www.aphis.usda.gov/plant_health/plant_pest_info/emerald_ash_b/downloads/eab_quarantine_map.pdf.

Obtain appropriate Compliance Agreements from USDA APHIS PPQ prior to moving any of the above listed ash articles to areas outside the yellow zone on the map.

232-10
04-18-17

EMERALD ASH BORER

For questions, concerns, and general assistance, contact:

USDA APHIS PPQ, Iowa office, 515-414-3295

Or

Iowa Department of Agriculture & Land Stewardship
515-725-1470
Entomology@IowaAgriculture.gov

LONGITUDINAL SUBDRAIN SHOULDER AND BACKSLOPE

Refer to Soils Sheets

* Not a bid item. Bridge berm quantities assume a trench depth of 24 inches.

Location						Longitudinal Subdrain (DR-303)							Subdrain Outlet		Porous* Backfill	Class "A"* Crushed Stone	Remarks
Line No.	Road or Lane Identification	Station to Station		Side	Depth D	Shoulder		Backslope		Bridge Berm (EW-203 or EW-204)			DR-303, DR-305 or DR-306				
						Size	Length	Size	Length	Standard Road Plan and Type	Size	Length	Station	Standard Road Plan and Type			
					IN	IN	FT	IN	FT		IN	FT			CY	CY	
1	EBL	497+50.00	502+50.00	RT	36.0	4.0	560.0						497+50.00	DR-306	43.2		CONTRACTOR SHALL LOCATE EXISTING SUBDRAIN, EXTEND EXISTING SUBDRAIN TO NEW
													502+50.00	DR-306			FORESLOPE, AND PROVIDE ADDITIONAL OUTLET.
2	EBL	502+50.00	507+50.00	RT	36.0	4.0	540.0						502+50.00	DR-306	41.7		
													507+50.00	DR-306			
3	EBL	507+50.00	512+50.00	RT	36.0	4.0	540.0						507+50.00	DR-306	41.7		
													512+50.00	DR-306			
4	EBL	512+50.00	517+20.00	RT	36.0	4.0	510.0						512+50.00	DR-306	39.4		
													517+20.00	DR-306			
5	EBL	517+35.00	520+75.00	RT	36.0	4.0	380.0						517+35.00	DR-306	29.3		
													520+75.00	DR-306			
6	EBL	520+75.00	523+95.00	RT	36.0	4.0	360.0						520+75.00	DR-306	27.8		
													523+95.00	DR-303			CONTRACTOR SHALL LOCATE TILE OUTLET INTO SRP SW-507 INTAKE.
7	EBL	523+95.00	528+00.00	RT	36.0	4.0	445.0						523+95.00	DR-303	34.3		CONTRACTOR SHALL LOCATE TILE OUTLET INTO SRP SW-507 INTAKE.
													528+00.00	DR-306			
8	EBL	528+00.00	532+95.00	RT	36.0	4.0	535.0						528+00.00	DR-306	41.3		
													532+95.00	DR-303			CONTRACTOR SHALL LOCATE TILE OUTLET INTO SRP SW-507 INTAKE.
9	EBL	532+95.00	538+00.00	RT	36.0	4.0	545.0						532+95.00	DR-303	42.1		CONTRACTOR SHALL LOCATE TILE OUTLET INTO SRP SW-507 INTAKE.
													538+00.00	DR-306			
10	EBL	538+00.00	543+00.00	RT	36.0	4.0	540.0						538+00.00	DR-306	41.7		
													543+00.00	DR-306			
11	EBL	543+00.00	545+13.00	RT	36.0	4.0	253.0						543+00.00	DR-306	19.5		
													545+13.00	DR-303			CONTRACTOR SHALL LOCATE TILE OUTLET INTO SRP SW-507 INTAKE.
12	WBL	497+50.00	502+50.00	LT	36.0	4.0	540.0						497+50.00	DR-306	41.7		CONTRACTOR SHALL LOCATE EXISTING SUBDRAIN, EXTEND EXISTING SUBDRAIN TO NEW
													502+50.00	DR-306			FORESLOPE, AND PROVIDE ADDITIONAL OUTLET.
13	WBL	502+50.00	507+50.00	LT	36.0	4.0	540.0						502+50.00	DR-306	41.7		
													507+50.00	DR-306			
14	WBL	507+50.00	512+50.00	LT	36.0	4.0	540.0						507+50.00	DR-306	41.7		
													512+50.00	DR-306			
15	WBL	512+50.00	517+20.00	LT	36.0	4.0	510.0						512+50.00	DR-306	39.4		
													517+20.00	DR-306			
16	WBL	517+35.00	520+75.00	LT	36.0	4.0	380.0						517+35.00	DR-306	29.3		
													520+75.00	DR-306			
17	WBL	520+75.00	523+95.00	LT	36.0	4.0	360.0						520+75.00	DR-306	27.8		
													523+95.00	DR-303			CONTRACTOR SHALL LOCATE TILE OUTLET INTO SRP SW-507 INTAKE.
18	WBL	523+95.00	532+34.00	LT	36.0	4.0	879.0						523+95.00	DR-303	67.8		CONTRACTOR SHALL LOCATE TILE OUTLET INTO SRP SW-507 INTAKE.
													532+34.00	DR-303			CONTRACTOR SHALL LOCATE TILE OUTLET INTO SRP SW-507 INTAKE.
19	WBL	532+95.00	545+14.00	LT	36.0	4.0	1259.0						532+95.00	DR-303	97.1		CONTRACTOR SHALL LOCATE TILE OUTLET INTO SRP SW-507 INTAKE.
													545+14.00	DR-303			CONTRACTOR SHALL LOCATE TILE OUTLET INTO SRP SW-507 INTAKE.
Totals							10216.0		0.0					DR-303 = 10	788.5	0.0	
														DR-306 = 28			
NOTE:																	

MUSCATINE-14
04-16-13

POLYMER GRID & MODIFIED SUBBASE FOR MAINLINE PAVING

Station to Station		Width	Polymer Grid SQ. YDS.	Modified Subbase CU. YDS.	Cl 13 Exc CU. YDS.	Remarks
417+00.00	454+50.00	28	11666.7	3227.8	3520.0	
497+50.00	522+00.00	30/33	8166.7	2485.4		
522+00.00	546+75.00	31/33	8525.0	2510.8		
+13.50	2+00.00	VARIES	719.6	199.0	96.0	HIGH PRAIRIE ROAD
1000+09.69	1000+93.35	VARIES	415.0	115.0	184.0	FUNKS HILL ROAD
1005+59.34	1006+54.70	VARIES	386.3	107.0	171.0	BURLINGTON ROAD
			29879.2	8645.0	3971.0	TOTALS

MUSCATINE-15
04-16-13

POLYMER GRID & MODIFIED SUBBASE FOR PCC DRIVEWAYS

Location	Side	Polymer Grid SQ. YDS.	Modified Subbase CU. YDS.	Remarks
425+54.00	RT		6.0	ADDRESS 2253. SEE SHEET L3
430+26.00	RT		10.0	PENNY LANE. SEE SHEET L3
439+46.00	LT		6.0	ADDRESS 2238. SEE SHEET L3
442+04.00	LT		9.0	ADDRESS 2225. SEE SHEET L3
449+30.00	LT		8.0	TIMBER RIDGE. SEE SHEET L4
451+94.00	LT		33.0	OAK TREE. SEE SHEET L4
457+38.00	LT		24.0	N. HILLTOP. SEE SHEET L4
457+40.00	RT		18.0	RIDGEVIEW. SEE SHEET L4
470+97.00	LT		83.0	KINCAID. SEE SHEET L5
479+74.00	RT		22.0	ADDRESS 2230. SEE SHEET L6
492+75.00	LT		35.0	HICKORY HILLS. SEE SHEET L6
495+88.00	LT		76.0	SEVEN SPRINGS. SEE SHEET L6
496+03.00	RT		14.0	ADDRESS 2234 & 2238. SEE SHEET L6
514+62.00	LT		34.0	ADDRESS 2371. SEE SHEET L7
523+50.00	RT		42.0	ADDRESS 2392. SEE SHEET L8
525+20.00	RT			ADDRESS 2392. SEE SHEET L8
539+27.00	LT		13.0	LUTHERAN DRIVE. SEE SHEET L8
			433.0	TOTAL

MUSCATINE-2
04-16-13

TABULATION OF UTILITIES

(ASE) ALLIANT ENERGY
Contact Name : Laura Barr
Contact Phone: 3192861315
Contact Email: locate_IPL@alliantenergy.com

(BAD) BRIDGESTONE BANDAG LLC
Contact Name : Greg Kauffman
Contact Phone: 5632622412
Contact Email: kauffmangreg@bfusa.com

(CTLIA01) CENTURYLINK
Contact Name : Tom Sturmer
Contact Phone: 7205788090
Contact Email: Thomas.sturmer@centurylink.com

(ELP) EASTERN IOWA LIGHT & POWER
Contact Name : Dennis Anderson
Contact Phone: 5637322211
Contact Email: dennis.anderson@easterniowa.com

(M48G) MIDAMER-GAS
Contact Name : Dianne hirl
Contact Phone: 3097933645
Contact Email: DHHirl@midamerican.com

(MPW) MUSCATINE POWER AND WATER
Contact Name : Dennis Shepard / Mark Nelson Contact Phone:
5632623331 Contact Email: dshepard@mpw.org, mnelson@mpw.org

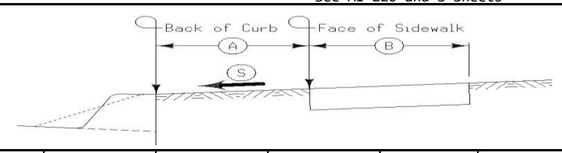
(MUS01) CITY OF MUSCATINE
Contact Name : Matt Chandler
Contact Phone: 5632638933
Contact Email: mchandler@muscatineiowa.gov

HICKORY HILLS HOMEOWNERS ASSOCIATION
Contact Name : Bill Harper
Contact Phone: 5632993393
Contact Email: cyclingpanther@hotmail.com

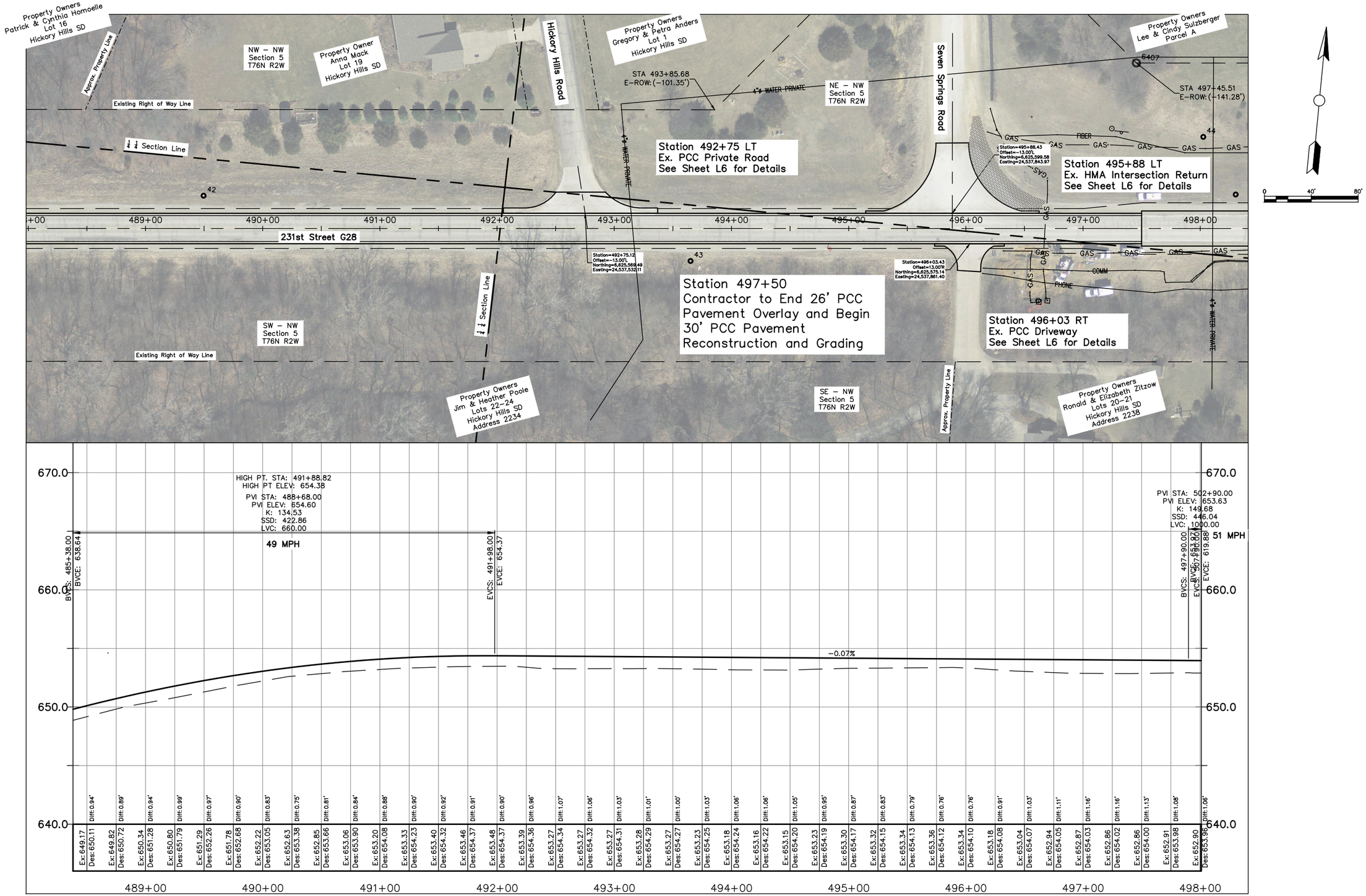
113-1
04-16-19

SIDEWALKS

See MI-220 and S Sheets



Intersection/Road	Quadrant/Side	Length	A	B	S	4" PCC Sidewalk	6" PCC Sidewalk	8" PCC Sidewalk	10" PCC Sidewalk	Detectable Warnings	Remarks
			FT	FT	%	SY	SY	SY	SY	SF	
231ST STREET	STA 545+69 LT	22	6.00	10.00	1.50%		24.4				SEE SHEET S1 FOR DETAILS
231ST STREET	STA 545+75 LT	6	6.00	N/A	7.70%		9.0			24	RAMP
							33.4			24	TOTALS



PLAN & PROFILE SHEET

FILE NO.	.	ENGLISH	DESIGN TEAM WHITE\MICHAEL\HORESOWSKY	MUSCATINE COUNTY	PROJECT NUMBER STBG-SWAP-C070(62)--FG-70	SHEET NUMBER D1	REVISED .

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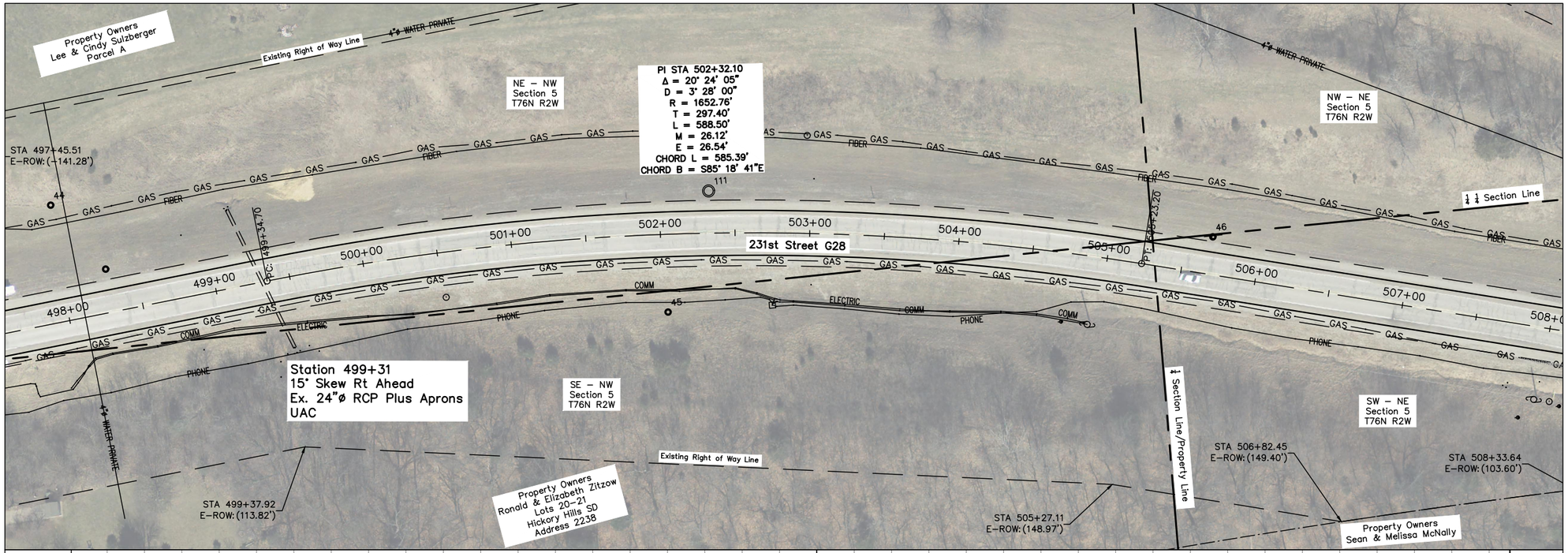

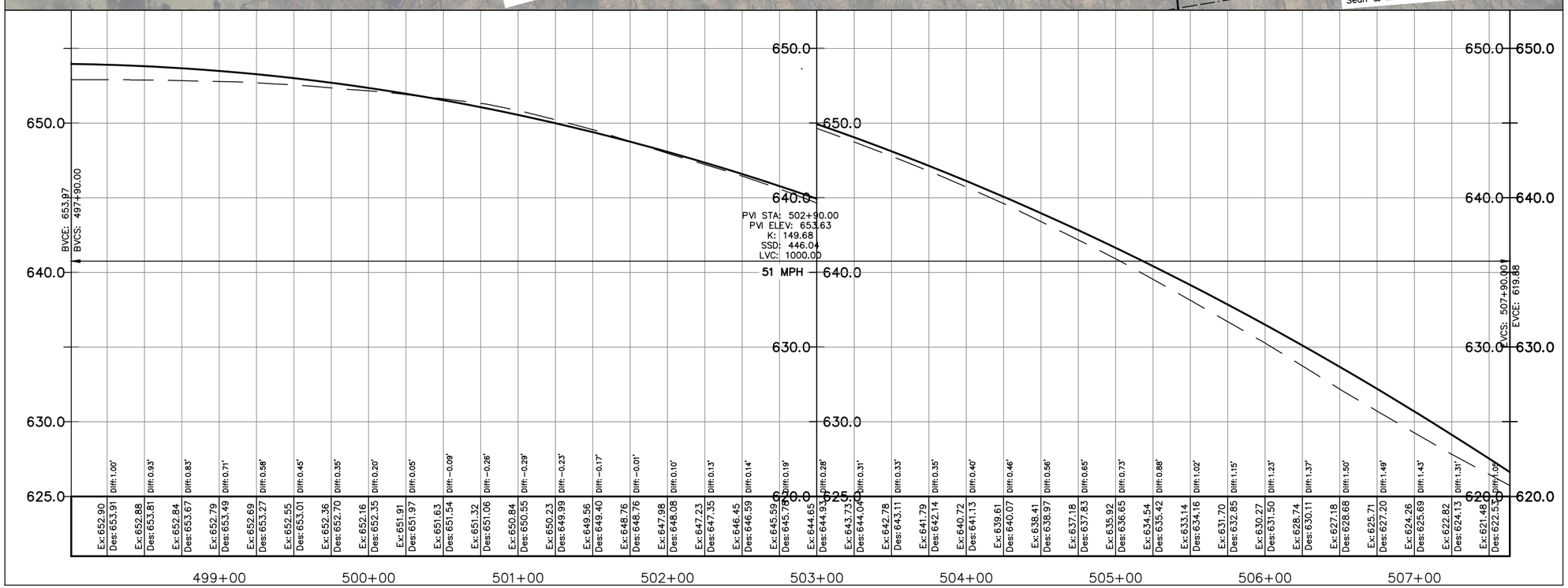

PLAN & PROFILE SHEET

FILE NO.	.	ENGLISH	DESIGN TEAM WHITE\MICHAEL\HORESOWSKY	MUSCATINE COUNTY	PROJECT NUMBER STBG-SWAP-C070(62)--FG-70	SHEET NUMBER D2	REVISED .

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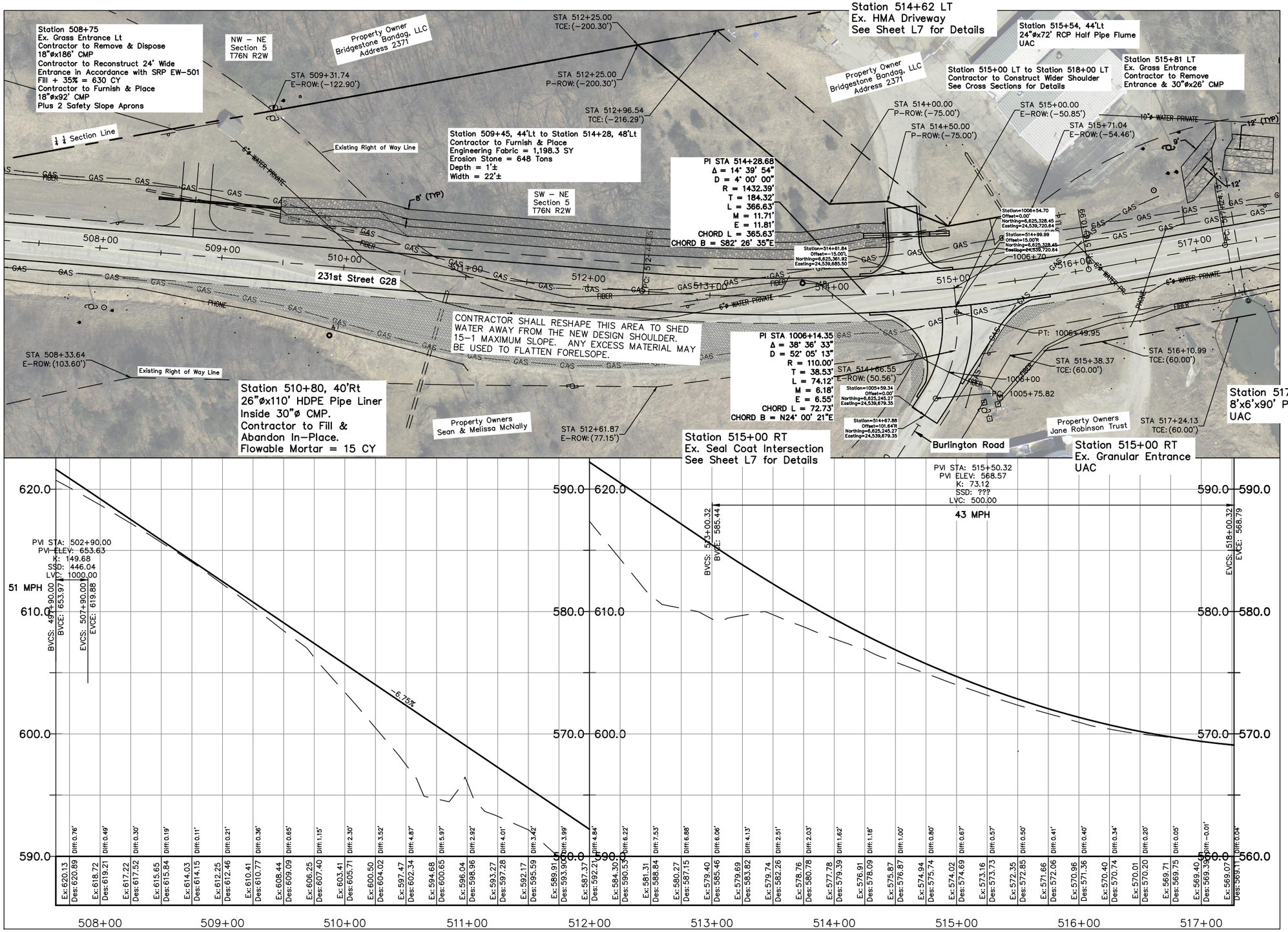

PLAN & PROFILE SHEET

FILE NO.	.	ENGLISH	DESIGN TEAM	WHITE\MICHAEL\HORESOWSKY	MUSCATINE COUNTY	PROJECT NUMBER	STBG-SWAP-C070(62)--FG-70	SHEET NUMBER	D3	REVISED	.

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Station 517+00, 54'Lt to Station 517+25±, 76'Lt
Contractor to Furnish & Place
Engineering Fabric = 103.4 SY
Class "E" Revetment = 84 Tons
Depth = 1.5'±
Width = 27'±

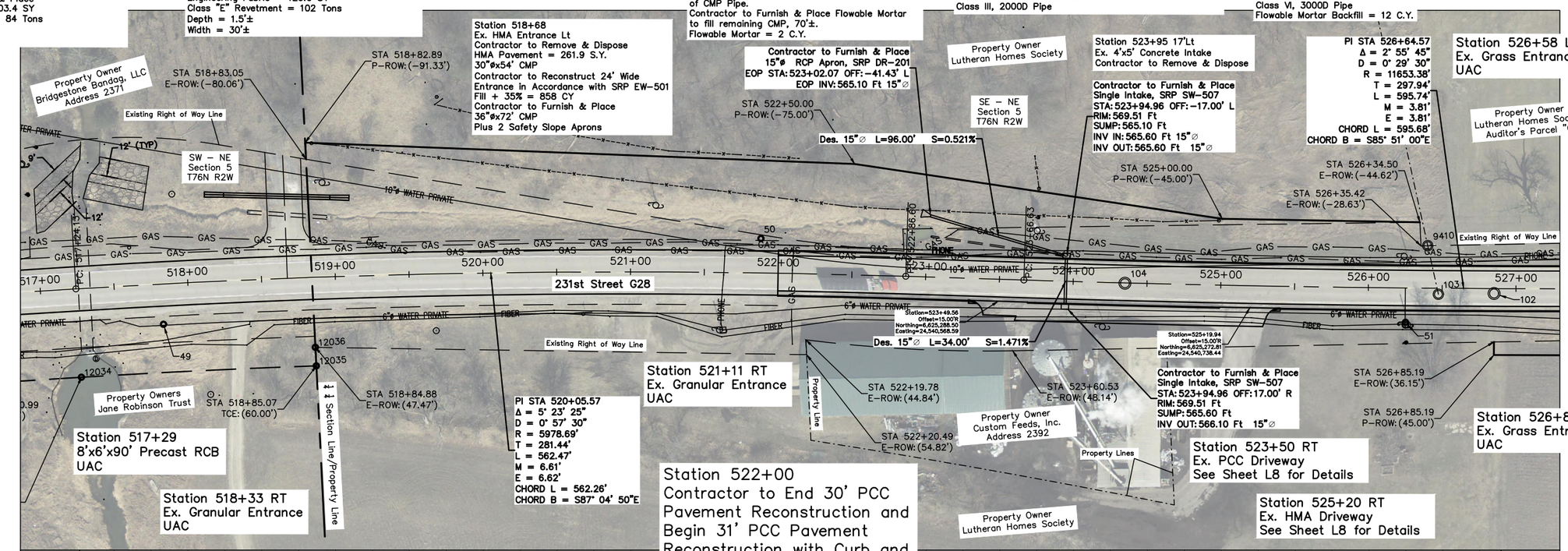
Station 517+38±, 76'Lt to Station 517+75, 65'Lt
Contractor to Furnish & Place
Engineering Fabric = 126.0 SY
Class "E" Revetment = 102 Tons
Depth = 1.5'±
Width = 30'±

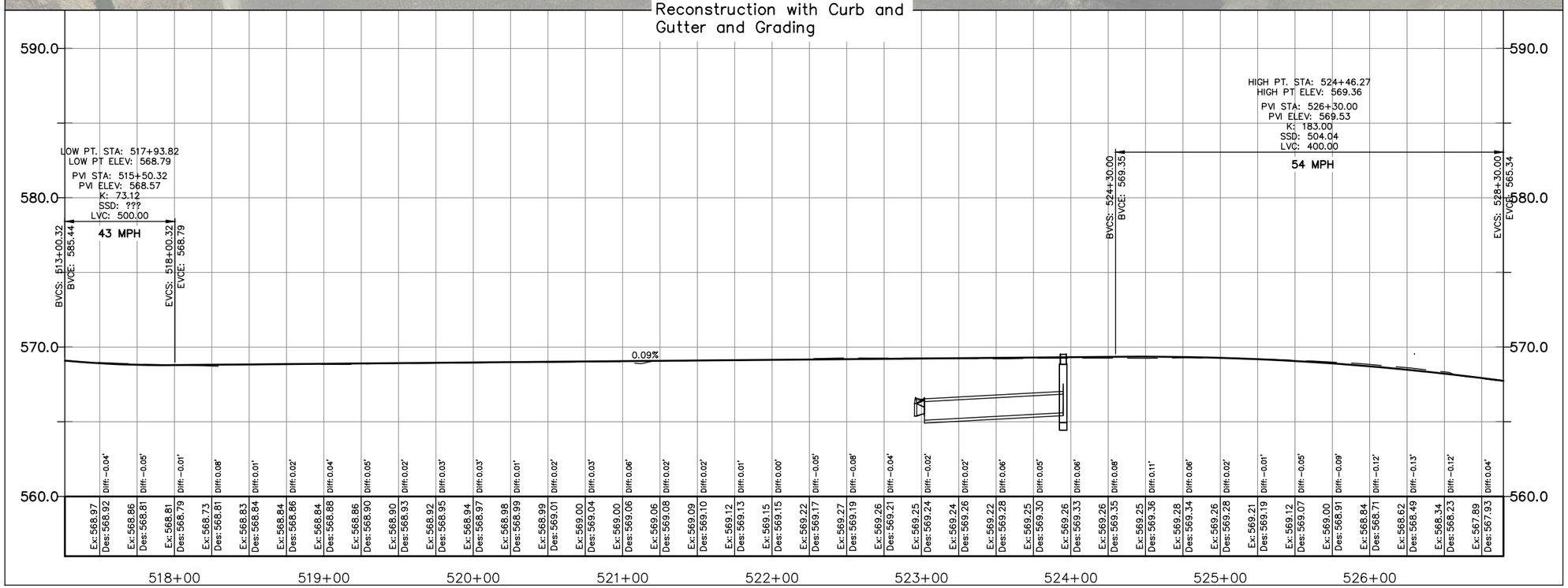
Station 518+68
Ex. HMA Entrance Lt
Contractor to Remove & Dispose
HMA Pavement = 261.9 S.Y.
30"ø x 54' CMP
Contractor to Reconstruct 24' Wide
Entrance in Accordance with SRP EW-501
Fill + 35% = 858 CY
Contractor to Furnish & Place
36"ø x 72' CMP
Plus 2 Safety Slope Aprons

Station 523+03 27.5'Lt to Station 523+95 17'Lt
Ex. 12"ø x 90' CMP
Contractor to Remove & Dispose the East 20'± of CMP Pipe.
Contractor to Furnish & Place Flowable Mortar to fill remaining CMP, 70'±.
Flowable Mortar = 2 C.Y.

Station 523+02.07 41.43'Lt to Station 523+94.96 17'Lt
Contractor to Furnish & Place
15"ø x 96' RCP Storm Sewer
Class III, 2000D Pipe

Station 523+94.96
Contractor to Furnish & Place
15"ø x 34' RCP Storm Sewer
Class VI, 3000D Pipe
Flowable Mortar Backfill = 12 C.Y.





PLAN & PROFILE SHEET

FILE NO.	.	ENGLISH	DESIGN TEAM	WHITE\MICHAEL\HORESOWSKY	MUSCATINE COUNTY	PROJECT NUMBER	STBG-SWAP-C070(62)--FG-70	SHEET NUMBER	D4	REVISED	.

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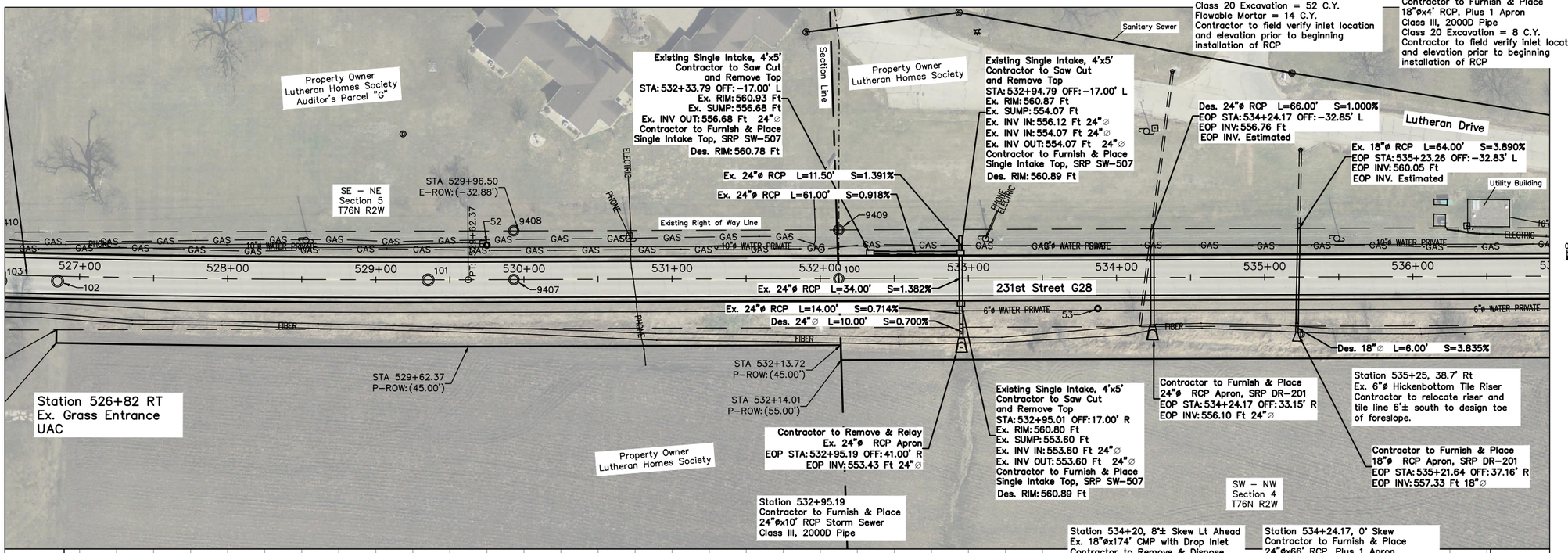

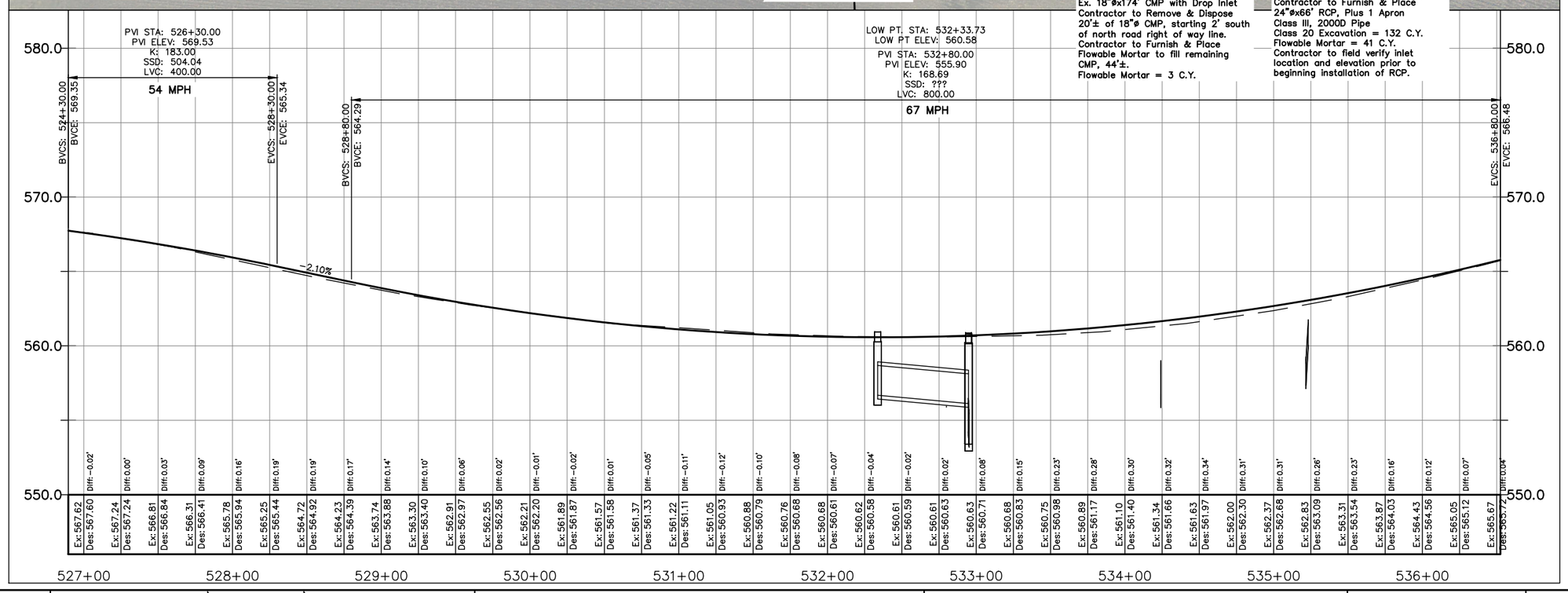

PLAN & PROFILE SHEET

FILE NO.	ENGLISH	DESIGN TEAM	WHITE\MICHAEL\HORESOWSKY	MUSCATINE COUNTY	PROJECT NUMBER	STBG-SWAP-C070(62)--FG-70	SHEET NUMBER	D5	REVISED

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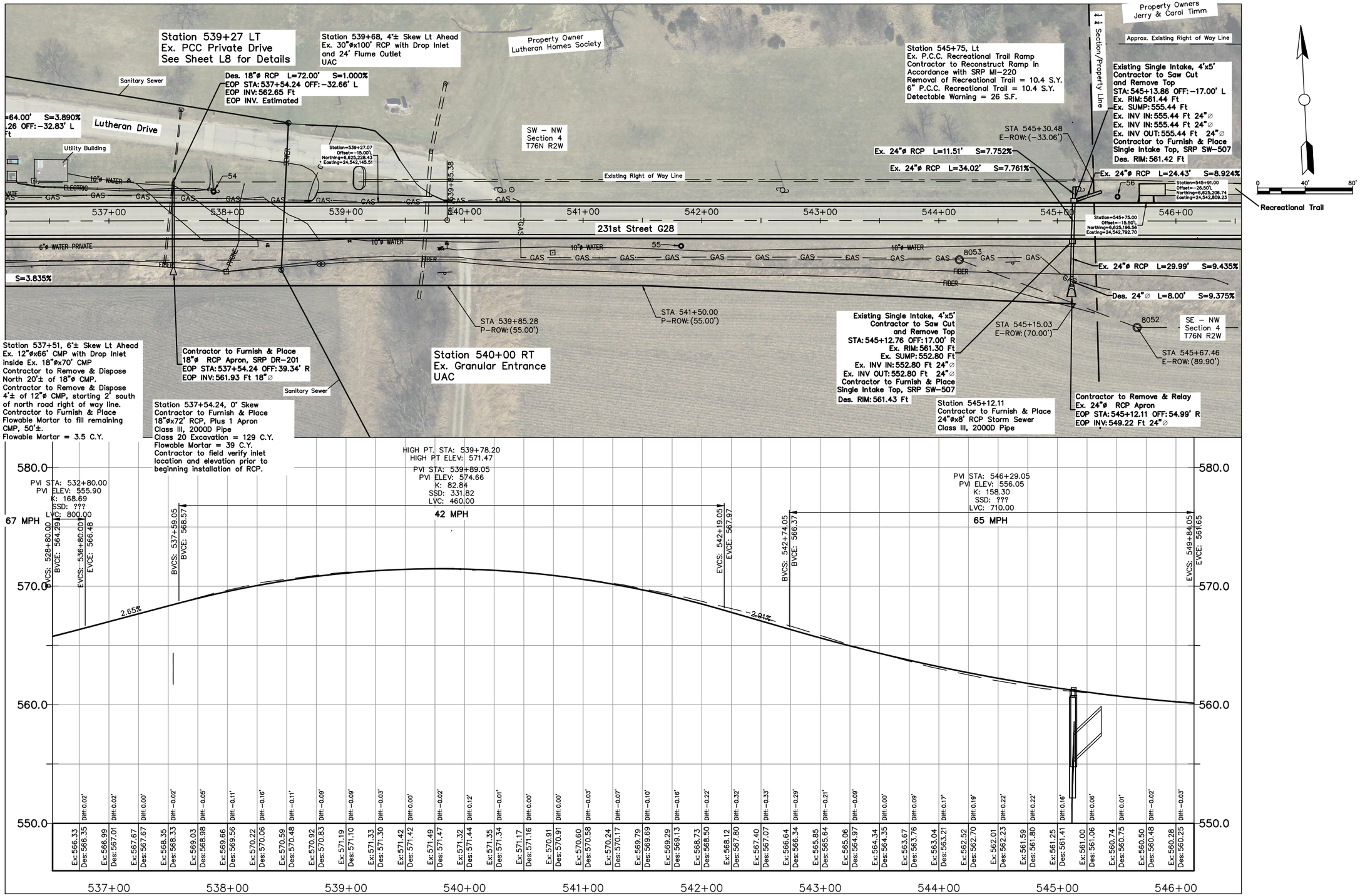

PLAN & PROFILE SHEET

FILE NO.	.	ENGLISH	DESIGN TEAM	WHITE\MICHAEL\HORESOWSKY	MUSCATINE COUNTY	PROJECT NUMBER	STBG-SWAP-C070(62)--FG-70	SHEET NUMBER	D6	REVISED	.

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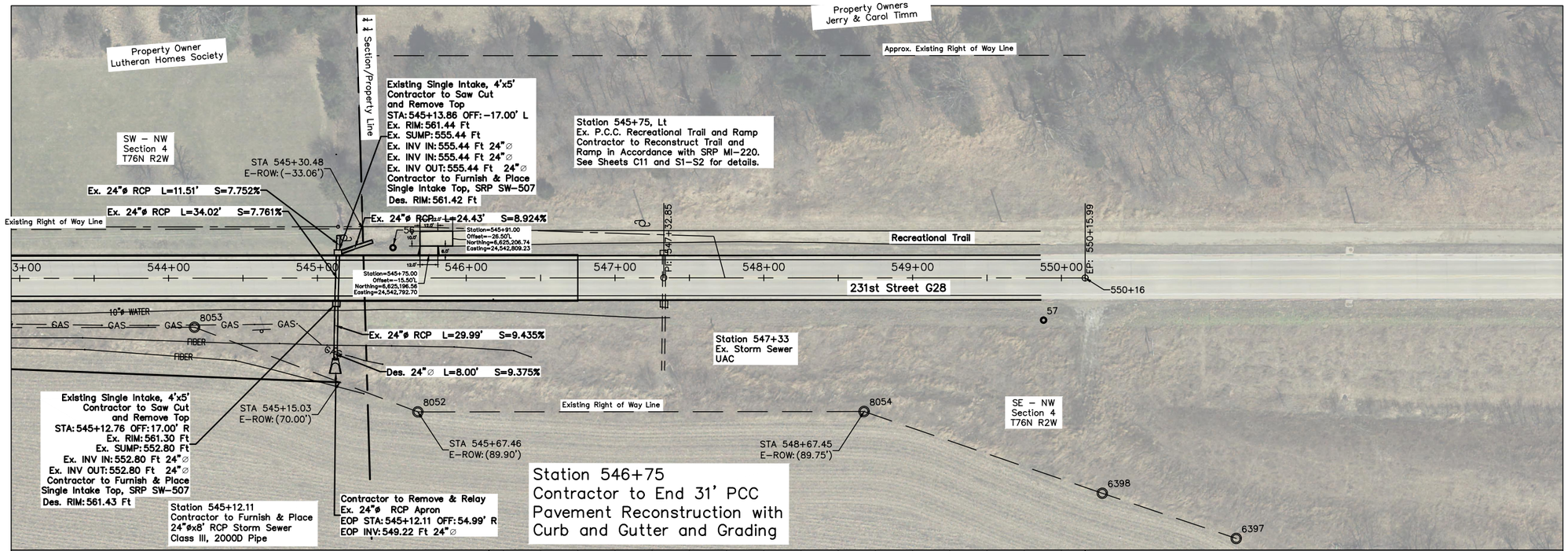

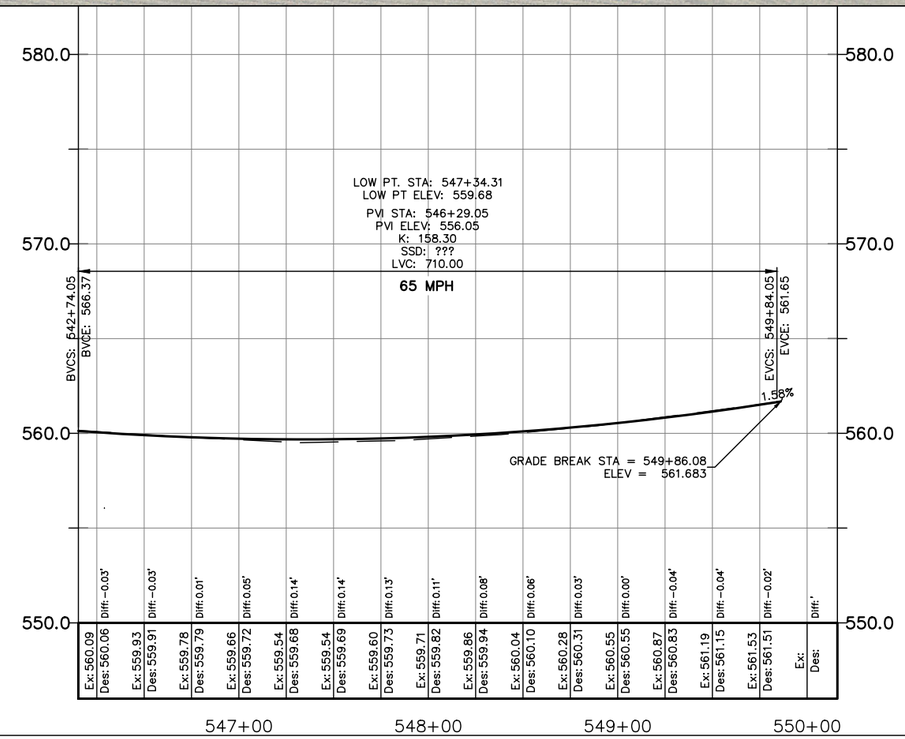

PLAN & PROFILE SHEET

FILE NO.	.	ENGLISH	DESIGN TEAM WHITE\MICHAEL\HORESOWSKY	MUSCATINE COUNTY	PROJECT NUMBER STBG-SWAP-C070(62)--FG-70	SHEET NUMBER D7	REVISED .

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MUSCATINE COUNTY GPS MONUMENTS FOR PROJECT CONTROL
PROJECT: STBG-SWAP-C070(62)--FG-70
Coordinate System: Iowa Regional Coordinate System
Datum: NAD 83(NA2011)
Zone: IaRCS Zone 14 Burlington TM
Geoid: GEOID12A (Conus)
Vertical Datum: NAVD88

Point ID	Northing sft	Easting sft	Elevation sft	Latitude (Global)	Longitude (Global)	Height (Global)	Projection Scale Factor	Height Scale Factor	Combined Scale Factor	Meridian Convergence Angle
134	6618919.783	24541583.661	543.060	N41°23'58.88197"	W91°05'54.37075"	435.023	1.00001998	0.9999792418	0.9999992176	0°06'01"
137	6611056.956	24525267.381	535.190	N41°22'41.42575"	W91°09'28.56984"	427.125	1.00001873	0.9999796187	0.9999983479	0°03'39"
313	6627365.097	24544402.105	683.520	N41°25'22.26879"	W91°05'17.18228"	575.567	1.00002025	0.9999725357	0.9999927882	0°06'26"
506	6634925.445	24520862.949	741.890	N41°26'37.28223"	W91°10'26.06733"	634.055	1.00001850	0.9999697449	0.9999882418	0°03'01"
807	6624685.467	24530086.134	738.314	N41°24'56.01661"	W91°08'25.13647"	630.363	1.00001903	0.9999699210	0.9999889549	0°04'21"
								Average Combined Scale Factor	**0.9999935101**	

Tie sheets for GPS Monuments can be downloaded at:
https://magic-gis.com/SurveyControl_ver2.2/index.html

GENERAL NOTES:
COORDINATE VALUES LISTED ON THESE SHEETS ARE IOWA REGIONAL COORDINATE SYSTEM GRID COORDINATES. THIS IS A LOW DISTORTION PROJECTION, SO GRID/GROUND DISTANCE DIFFERENCES SHOULD BE NEGLIGABLE. THE AVERAGE COMBINED SCALE FACTOR HAS BEEN PROVIDED IN THE TABLE ABOVE, IF NEEDED. SECTION CORNER TIE SHEETS ARE AVAILABLE UPON REQUEST FROM THE ENGINEER'S OFFICE. THE PLAN AND PROFILE INFORMATION HAS BEEN PROVIDED FOR MAINLINE 231ST STREET G28. PLAN AND PROFILE DATA IS ALSO AVAILABLE FOR HIGH PRAIRIE ROAD, FUNKS HILL ROAD, AND BURLINGTON ROAD UPON REQUEST. THE POINT, ALIGNMENT, AND PROFILE DATA CAN ALSO BE PROVIDED IN DIGITAL FORMAT UPON REQUEST (CIVIL 3D OR XML). PROJECT CONTROL POINTS ARE A SET 5/8"Øx30" REBAR WITH PINK CAP STAMPED "MUSCATINE CO CONTROL POINT". THEY WERE SET ALONG THE PROJECT ROUTE, ALTERNATING SIDES, APPROXIMATELY EVERY 400 FEET.

PROJECT CONTROL POINTS
PROJECT: STBG-SWAP-C070(62)--FG-70

Number	Northing (ft)	Easting (ft)	Elevation (ft)	Description
1	6624378.72	24521563.62	742.29	RN=REBAR-W/CAP
2	6624258.68	24521981.97	742.20	RN=REBAR-W/CAP
3	6624367.46	24522384.97	747.44	RN=REBAR-W/CAP
4	6624245.73	24522783.33	749.13	RN=REBAR-W/CAP
5	6624367.93	24523183.84	751.92	RN=REBAR-W/CAP
6	6624262.96	24523582.27	753.01	RN=REBAR-W/CAP
7	6624378.63	24523959.24	753.49	RN=REBAR-W/CAP
8	6624398.85	24524377.98	761.40	RN=REBAR-W/CAP
9	6624649.59	24524694.76	761.69	RN=REBAR-W/CAP
10	6624883.06	24525137.45	760.60	RN=REBAR-W/CAP
11	6625172.18	24525415.89	757.76	RN=REBAR-W/CAP
12	6625150.68	24525714.48	752.75	RN=REBAR-W/CAP
13	6625360.40	24526085.24	751.17	RN=REBAR-W/CAP
14	6625216.22	24526530.60	745.05	RN=REBAR-W/CAP
15	6625210.46	24526934.67	745.44	RN=REBAR-W/CAP
16	6625062.43	24527457.98	745.14	RN=REBAR-W/CAP
17	6625112.62	24527795.59	744.76	RN=REBAR-W/CAP
18	6624891.42	24528203.79	749.94	RN=REBAR-W/CAP
19	6624944.56	24528518.17	745.79	RN=REBAR-W/CAP
20	6624817.74	24528884.51	747.33	RN=REBAR-W/CAP
21	6624853.68	24529303.88	744.58	RN=REBAR-W/CAP
22	6624794.24	24529836.41	743.32	RN=REBAR-W/CAP
23	6624685.45	24530086.17	738.31	GPSMON=807
24	6624871.91	24530086.12	736.83	RN=REBAR-W/CAP
25	6624818.77	24530498.89	724.43	RN=REBAR-W/CAP
26	6624948.27	24530886.91	713.84	RN=REBAR-W/CAP
27	6624927.03	24531291.82	707.88	RN=REBAR-W/CAP
28	6625048.39	24531813.28	704.79	RN=REBAR-W/CAP
29	6625003.54	24532078.58	704.48	RN=REBAR-W/CAP
30	6625096.08	24532430.28	701.15	RN=REBAR-W/CAP
31	6625084.72	24532880.72	700.93	RN=REBAR-W/CAP
32	6625203.81	24533446.68	691.59	RN=REBAR-W/CAP
33	6625162.07	24533696.38	683.80	RN=REBAR-W/CAP
34	6625280.43	24534037.59	669.08	RN=REBAR-W/CAP
35	6625231.84	24534474.03	645.53	RN=REBAR-W/CAP
36	6625333.12	24534861.22	619.68	RN=REBAR-W/CAP
37	6625307.98	24535266.37	603.65	RN=REBAR-W/CAP
38	6625404.78	24535663.59	596.91	RN=REBAR-W/CAP
39	6625386.89	24536059.83	602.53	RN=REBAR-W/CAP
40	6625481.48	24536459.65	619.69	RN=REBAR-W/CAP
41	6625462.41	24536862.66	638.16	RN=REBAR-W/CAP
42	6625553.14	24537206.66	649.76	RN=REBAR-W/CAP

PROJECT CONTROL POINTS
PROJECT: STBG-SWAP-C070(62)--FG-70

Number	Northing (ft)	Easting (ft)	Elevation (ft)	Description
43	6625537.60	24537625.61	651.12	RN=REBAR-W/CAP
44	6625685.07	24538050.94	653.34	RN=REBAR-W/CAP
45	6625571.98	24538454.80	642.17	RN=REBAR-W/CAP
46	6625585.00	24538822.66	632.22	RN=REBAR-W/CAP
47	6625396.95	24539212.49	603.15	RN=REBAR-W/CAP
48	6625369.52	24539600.67	577.74	RN=REBAR-W/CAP
49	6625310.35	24540003.49	567.24	RN=REBAR-W/CAP
50	6625341.53	24540411.15	568.86	RN=REBAR-W/CAP
51	6625256.12	24540843.08	568.71	RN=REBAR-W/CAP
52	6625281.38	24541194.93	563.13	RN=REBAR-W/CAP
53	6625217.84	24541604.69	560.42	RN=REBAR-W/CAP
54	6625244.23	24542007.40	570.35	RN=REBAR-W/CAP
55	6625179.20	24542399.08	567.73	RN=REBAR-W/CAP
56	6625202.66	24542768.79	561.11	RN=REBAR-W/CAP
57	6625131.73	24543202.98	561.43	RN=REBAR-W/CAP

Alignment: 2018 Design Centerline G28
Description: 2018 Overlay/Reconstruction Centerline

Tangent Data

Description	PT Station	Northing	Easting
Start:	316+26.500	6624340.223	24520209.07
End:	337+78.981	6624312.194	24522361.37

Tangent Data

Parameter	Value	Parameter	Value
Length:	2152.481	Course:	S 89° 15' 14.0292" E

Tangent Data

Description	PT Station	Northing	Easting
Start:	337+78.981	6624312.194	24522361.37
End:	351+09.326	6624293.584	24523691.59

Tangent Data

Parameter	Value	Parameter	Value
Length:	1330.345	Course:	S 89° 11' 54.4320" E

Curve Point Data

Description	Station	Northing	Easting
PC:	351+09.326	6624293.584	24523691.59
RP:		6625948.422	24523714.74
PT:	361+43.400	6624592.691	24524663.96

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	35° 47' 58.0521"	Type:	LEFT
Radius:	1655		
Length:	1034.074	Tangent:	534.542
Mid-Ord:	80.109	External:	84.184
Chord:	1017.336	Course:	N 72° 54' 06.5419" E

Tangent Data

Description	PT Station	Northing	Easting
Start:	361+43.400	6624592.691	24524663.96
End:	368+32.564	6624987.958	24525228.5

Tangent Data

Parameter	Value	Parameter	Value
Length:	689.164	Course:	N 55° 00' 07.5159" E

Alignment: 2018 Design Centerline G28
Description: 2018 Overlay/Reconstruction Centerline

Curve Point Data

Description	Station	Northing	Easting
PC:	368+32.564	6624987.958	24525228.5
RP:		6623640.419	24526171.99
PT:	381+12.839	6625262.409	24526446.16

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	44° 35' 32.3319"	Type:	RIGHT
Radius:	1645		
Length:	1280.275	Tangent:	674.535
Mid-Ord:	122.988	External:	132.926
Chord:	1248.207	Course:	N 77° 17' 53.6818" E

Tangent Data

Description	PT Station	Northing	Easting
Start:	381+12.839	6625262.409	24526446.16
End:	407+49.332	6624822.978	24529045.78

Tangent Data

Parameter	Value	Parameter	Value
Length:	2636.493	Course:	S 80° 24' 20.1522" E

Curve Point Data

Description	Station	Northing	Easting
PC:	407+49.332	6624822.978	24529045.78
RP:		6627082.918	24529427.79
PT:	413+52.500	6624801.408	24529646.82

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	15° 04' 41.1658"	Type:	LEFT
Radius:	2292		
Length:	603.168	Tangent:	303.337
Mid-Ord:	19.813	External:	19.986
Chord:	601.43	Course:	S 87° 56' 40.7351" E

Alignment: 2018 Design Centerline G28
Description: 2018 Overlay/Reconstruction Centerline

Tangent Data

Description	PT Station	Northing	Easting
Start:	413+52.500	6624801.408	24529646.82
End:	432+99.323	6624987.451	24531584.73

Tangent Data

Parameter	Value	Parameter	Value
Length:	1946.823	Course:	N 84° 30' 58.6819" E

Tangent Data

Description	PT Station	Northing	Easting
Start:	432+99.323	6624987.451	24531584.73
End:	438+45.327	6625040.056	24532128.2

Tangent Data

Parameter	Value	Parameter	Value
Length:	546.004	Course:	N 84° 28' 16.5875" E

Tangent Data

Description	PT Station	Northing	Easting
Start:	438+45.327	6625040.056	24532128.2
End:	444+53.977	6625098.341	24532734.05

Tangent Data

Parameter	Value	Parameter	Value
Length:	608.65	Course:	N 84° 30' 17.5440" E

Tangent Data

Description	PT Station	Northing	Easting
Start:	444+53.977	6625098.341	24532734.05
End:	450+75.651	6625157.978	24533352.86

Tangent Data

Parameter	Value	Parameter	Value
Length:	621.674	Course:	N 84° 29' 42.7726" E

Alignment: 2018 Design Centerline G28
Description: 2018 Overlay/Reconstruction Centerline

Tangent Data

Description	PT Station	Northing	Easting
Start:	450+75.651	6625157.978	24533352.86
End:	456+49.324	6625213.516	24533923.83

Tangent Data

Parameter	Value	Parameter	Value
Length:	573.672	Course:	N 84° 26' 39.5383" E

Tangent Data

Description	PT Station	Northing	Easting
Start:	456+49.324	6625213.516	24533923.83
End:	462+99.325	6625274.239	24534570.99

Tangent Data

Parameter	Value	Parameter	Value
Length:	650.002	Course:	N 84° 38' 22.9439" E

Tangent Data

Description	PT Station	Northing	Easting
Start:	462+99.325	6625274.239	24534570.99
End:	468+99.331	6625328.908	24535168.5

Tangent Data

Parameter	Value	Parameter	Value
Length:	600.006	Course:	N 84° 46' 19.9919" E

Tangent Data

Description	PT Station	Northing	Easting
Start:	468+99.331	6625328.908	24535168.5
End:	478+99.331	6625424.401	24536163.93

Tangent Data

Parameter	Value	Parameter	Value
Length:	1000	Course:	N 84° 31' 13.1205" E

Tangent Data

Description	PT Station	Northing	Easting
Start:	478+99.331	6625424.401	24536163.93
End:	499+34.700	6625619.903	24538189.89

Tangent Data

Parameter	Value	Parameter	Value
Length:	2035.369	Course:	N 84° 29' 17.1809" E

Alignment: 2018 Design Centerline G28
Description: 2018 Overlay/Reconstruction Centerline

Curve Point Data

Description	Station	Northing	Easting
PC:	499+34.700	6625619.903	24538189.89
RP:		6623974.782	24538348.64
PT:	505+23.198	6625572.052	24538773.33

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	20° 24' 04.5263"	Type:	RIGHT
Radius:	1652.763		
Length:	588.498	Tangent:	297.398
Mid-Ord:	26.124	External:	26.544
Chord:	585.394	Course:	S 85° 18' 40.5560" E

Tangent Data

Description	PT Station	Northing	Easting
Start:	505+23.198	6625572.052	24538773.33
End:	512+44.362	6625386.746	24539470.28

Tangent Data

Parameter	Value	Parameter	Value
Length:	721.164	Course:	S 75° 06' 38.2928" E

Curve Point Data

Description	Station	Northing	Easting
PC:	512+44.362	6625386.746	24539470.28
RP:		6626771.046	24539838.33
PT:	516+10.989	6625338.663	24539832.73

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	14° 39' 54.3863"	Type:	LEFT
Radius:	1432.394		
Length:	366.628	Tangent:	184.321
Mid-Ord:	11.714	External:	11.811
Chord:	365.628	Course:	S 82° 26' 35.4860" E

Alignment: 2018 Design Centerline G28
Description: 2018 Overlay/Reconstruction Centerline

Tangent Data

Description	PT Station	Northing	Easting
Start:	516+10.989	6625338.663	24539832.73
End:	517+24.127	6625338.22	24539945.86

Tangent Data

Parameter	Value	Parameter	Value
Length:	113.137	Course:	S 89° 46' 32.6792" E

Curve Point Data

Description	Station	Northing	Easting
PC:	517+24.127	6625338.22	24539945.86
RP:		6619359.576	24539922.46
PT:	522+86.599	6625309.583	24540507.4

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	05° 23' 25.2877"	Type:	RIGHT
Radius:	5978.69		
Length:	562.472	Tangent:	281.444
Mid-Ord:	6.613	External:	6.621
Chord:	562.265	Course:	S 87° 04' 50.0353" E

Tangent Data

Description	PT Station	Northing	Easting
Start:	522+86.599	6625309.583	24540507.4
End:	523+66.630	6625301.753	24540587.05

Tangent Data

Parameter	Value	Parameter	Value
Length:	80.032	Course:	S 84° 23' 07.3914" E

Alignment: 2018 Design Centerline G28
Description: 2018 Overlay/Reconstruction Centerline

Curve Point Data

Description	Station	Northing	Easting
PC:	523+66.630	6625301.753	24540587.05
RP:		6636899.224	24541727.18
PT:	529+62.371	6625258.644	24541181.16

Circular Curve Data

Parameter	Value	Parameter	Value
Delta:	02° 55' 44.6056"	Type:	LEFT
Radius:	11653.379		
Length:	595.74	Tangent:	297.935
Mid-Ord:	3.807	External:	3.808
Chord:	595.676	Course:	S 85° 50' 59.6943" E

Tangent Data

Description	PT Station	Northing	Easting
Start:	529+62.371	6625258.644	24541181.16
End:	539+85.376	6625210.712	24542203.04

Tangent Data

Parameter	Value	Parameter	Value
Length:	1023.005	Course:	S 87° 18' 51.9971" E

Tangent Data

Description	PT Station	Northing	Easting
Start:	539+85.376	6625210.712	24542203.04
End:	547+32.845	6625173.142	24542949.57

Tangent Data

Parameter	Value	Parameter	Value
Length:	747.47	Course:	S 87° 07' 08.2520" E

Tangent Data

Description	PT Station	Northing	Easting
Start:	547+32.845	6625173.142	24542949.57
End:	550+15.987	6625158.583	24543232.33

Tangent Data

Parameter	Value	Parameter	Value
Length:	283.141	Course:	S 87° 03' 09.5721" E

Vertical Alignment: 2018 Design Profile G28
Station Range: Start: 324+93.76, End: 549+86.08

PVI	Station	Grade Out	Curve Length	
0	328+58.00	0.16%	600.00'	
	Vertical Curve Information:(sag curve)			
	PVC Station:	325+58.00	Elevation:	746.42'
	PVI Station:	328+58.00	Elevation:	744.69'
	PVT Station:	331+58.00	Elevation:	745.17'
	Low Point:	330+27.36	Elevation:	745.06'
	Grade in:	-0.58%	Grade out:	0.16%
	Change:	0.74%	K:	812.4315376
	Curve Length:	600.00'		
	Headlight Distance:			
1	335+70.00	1.51%	480.00'	
	Vertical Curve Information:(sag curve)			
	PVC Station:	333+30.00	Elevation:	745.44'
	PVI Station:	335+70.00	Elevation:	745.83'
	PVT Station:	338+10.00	Elevation:	749.46'
	Low Point:	333+30.00	Elevation:	745.44'
	Grade in:	0.16%	Grade out:	1.51%
	Change:	1.35%	K:	354.6621316
	Curve Length:	480.00'		
	Headlight Distance:			
2	340+26.00	0.34%	400.00'	
	Vertical Curve Information:(crest curve)			
	PVC Station:	338+26.00	Elevation:	749.71'
	PVI Station:	340+26.00	Elevation:	752.73'
	PVT Station:	342+26.00	Elevation:	753.41'
	High Point:	342+26.00	Elevation:	753.41'
	Grade in:	1.51%	Grade out:	0.34%
	Change:	1.18%	K:	339.5067295
	Curve Length:	400.00'		
	Passing Distance:	1,512.50'	Stopping Distance:	764.07'
3	348+40.00	0.89%	400.00'	
	Vertical Curve Information:(sag curve)			
	PVC Station:	346+40.00	Elevation:	754.80'
	PVI Station:	348+40.00	Elevation:	755.47'
	PVT Station:	350+40.00	Elevation:	757.25'
	Low Point:	346+40.00	Elevation:	754.80'
	Grade in:	0.34%	Grade out:	0.89%
	Change:	0.55%	K:	722.6125956
	Curve Length:	400.00'		
	Headlight Distance:			

Vertical Alignment: 2018 Design Profile G28
Station Range: Start: 324+93.76, End: 549+86.08

PVI	Station	Grade Out	Curve Length	
4	351+66.00	0.65%	200.00'	
	Vertical Curve Information:(crest curve)			
	PVC Station:	350+66.00	Elevation:	757.48'
	PVI Station:	351+66.00	Elevation:	758.37'
	PVT Station:	352+66.00	Elevation:	759.02'
	High Point:	352+66.00	Elevation:	759.02'
	Grade in:	0.89%	Grade out:	0.65%
	Change:	0.24%	K:	840.741814
	Curve Length:	200.00'		
	Passing Distance:	6,600.46'	Stopping Distance:	2,893.68'
5	357+00.00	0.71%	100.00'	
	Vertical Curve Information:(sag curve)			
	PVC Station:	356+50.00	Elevation:	761.52'
	PVI Station:	357+00.00	Elevation:	761.85'
	PVT Station:	357+50.00	Elevation:	762.21'
	Low Point:	356+50.00	Elevation:	761.52'
	Grade in:	0.65%	Grade out:	0.71%
	Change:	0.06%	K:	1611.995221
	Curve Length:	100.00'		
	Headlight Distance:			
6	364+58.00	-1.01%	660.00'	
	Vertical Curve Information:(crest curve)			
	PVC Station:	361+28.00	Elevation:	764.90'
	PVI Station:	364+58.00	Elevation:	767.26'
	PVT Station:	367+88.00	Elevation:	763.93'
	High Point:	364+01.64	Elevation:	765.88'
	Grade in:	0.71%	Grade out:	-1.01%
	Change:	1.72%	K:	383.3961
	Curve Length:	660.00'		
	Passing Distance:	1,228.29'	Stopping Distance:	716.05'
7	369+75.00	-1.12%	100.00'	
	Vertical Curve Information:(crest curve)			
	PVC Station:	369+25.00	Elevation:	762.55'
	PVI Station:	369+75.00	Elevation:	762.05'
	PVT Station:	370+25.00	Elevation:	761.49'
	High Point:	369+25.00	Elevation:	762.55'
	Grade in:	-1.01%	Grade out:	-1.12%
	Change:	0.11%	K:	900.0206892
	Curve Length:	100.00'		
	Passing Distance:	13,967.58'	Stopping Distance:	6,031.31'

Vertical Alignment: 2018 Design Profile G28
Station Range: Start: 324+93.76, End: 549+86.08

PVI	Station	Grade Out	Curve Length	
8	381+53.00	0.01%	600.00'	
	Vertical Curve Information:(sag curve)			
	PVC Station:	378+53.00	Elevation:	752.23'
	PVI Station:	381+53.00	Elevation:	748.87'
	PVT Station:	384+53.00	Elevation:	748.89'
	Low Point:	384+49.63	Elevation:	748.89'
	Grade in:	-1.12%	Grade out:	0.01%
	Change:	1.13%	K:	533.252147
	Curve Length:	600.00'		
	Headlight Distance:			
9	400+50.00	-0.02%	200.00'	
	Vertical Curve Information:(crest curve)			
	PVC Station:	399+50.00	Elevation:	748.98'
	PVI Station:	400+50.00	Elevation:	748.99'
	PVT Station:	401+50.00	Elevation:	748.97'
	High Point:	400+05.76	Elevation:	748.99'
	Grade in:	0.01%	Grade out:	-0.02%
	Change:	0.02%	K:	8814.683395
	Curve Length:	200.00'		
	Passing Distance:	68,253.48'	Stopping Distance:	29,390.10'
10	406+00.00	0.14%	100.00'	
	Vertical Curve Information:(sag curve)			
	PVC Station:	405+50.00	Elevation:	748.91'
	PVI Station:	406+00.00	Elevation:	748.90'
	PVT Station:	406+50.00	Elevation:	748.97'
	Low Point:	405+60.34	Elevation:	748.91'
	Grade in:	-0.02%	Grade out:	0.14%
	Change:	0.16%	K:	632.148975
	Curve Length:	100.00'		
	Headlight Distance:			
11	414+32.00	-2.93%	750.00'	
	Vertical Curve Information:(crest curve)			
	PVC Station:	410+57.00	Elevation:	749.55'
	PVI Station:	414+32.00	Elevation:	750.08'
	PVT Station:	418+07.00	Elevation:	739.09'
	High Point:	410+91.63	Elevation:	749.57'
	Grade in:	0.14%	Grade out:	-2.93%
	Change:	3.07%	K:	244.1599526
	Curve Length:	750.00'		
	Passing Distance:	878.41'	Stopping Distance:	569.67'

Vertical Alignment: 2018 Design Profile G28
Station Range: Start: 324+93.76, End: 549+86.08

PVI	Station	Grade Out	Curve Length	
12	427+92.00	-0.46%	400.00'	
	Vertical Curve Information:(sag curve)			
	PVC Station:	425+92.00	Elevation:	716.09'
	PVI Station:	427+92.00	Elevation:	710.23'
	PVT Station:	429+92.00	Elevation:	709.31'
	Low Point:	429+92.00	Elevation:	709.31'
	Grade in:	-2.93%	Grade out:	-0.46%
	Change:	2.47%	K:	162.0530579
	Curve Length:	400.00'		
	Headlight Distance:	959.66'		
13	438+00.00	-0.49%	100.00'	
	Vertical Curve Information:(crest curve)			
	PVC Station:	437+50.00	Elevation:	705.81'
	PVI Station:	438+00.00	Elevation:	705.58'
	PVT Station:	438+50.00	Elevation:	705.33'
	High Point:	437+50.00	Elevation:	705.81'
	Grade in:	-0.46%	Grade out:	-0.49%
	Change:	0.03%	K:	3288.363626
	Curve Length:	100.00'		
	Passing Distance:	50,900.02'	Stopping Distance:	21,903.65'
14	453+65.00	-5.97%	1,430.00'	
	Vertical Curve Information:(crest curve)			
	PVC Station:	446+50.00	Elevation:	701.40'
	PVI Station:	453+65.00	Elevation:	697.88'
	PVT Station:	460+80.00	Elevation:	655.22'
	High Point:	446+50.00	Elevation:	701.40'
	Grade in:	-0.49%	Grade out:	-5.97%
	Change:	5.47%	K:	261.1883815
	Curve Length:	1,430.00'		
	Passing Distance:	898.77'	Stopping Distance:	589.20'
15	473+34.00	4.84%	1,525.00'	
	Vertical Curve Information:(sag curve)			
	PVC Station:	465+71.50	Elevation:	625.89'
	PVI Station:	473+34.00	Elevation:	580.39'
	PVT Station:	480+96.50	Elevation:	617.28'
	Low Point:	474+13.70	Elevation:	600.76'
	Grade in:	-5.97%	Grade out:	4.84%
	Change:	10.80%	K:	141.1427041
	Curve Length:	1,525.00'		
	Headlight Distance:	588.64'		

Vertical Alignment: 2018 Design Profile G28
Station Range: Start: 324+93.76, End: 549+86.08

PVI	Station	Grade Out	Curve Length	
16	488+68.00	-0.07%	660.00'	
	Vertical Curve Information:(crest curve)			
	PVC Station:	485+38.00	Elevation:	638.64'
	PVI Station:	488+68.00	Elevation:	654.60'
	PVT Station:	491+98.00	Elevation:	654.37'
	High Point:	491+88.82	Elevation:	654.38'
	Grade in:	4.84%	Grade out:	-0.07%
	Change:	4.91%	K:	134.5320807
	Curve Length:	660.00'		
	Passing Distance:	645.04'	Stopping Distance:	422.86'
17	502+90.00	-6.75%	1,000.00'	
	Vertical Curve Information:(crest curve)			
	PVC Station:	497+90.00	Elevation:	653.97'
	PVI Station:	502+90.00	Elevation:	653.63'
	PVT Station:	507+90.00	Elevation:	619.88'
	High Point:	497+90.00	Elevation:	653.97'
	Grade in:	-0.07%	Grade out:	-6.75%
	Change:	6.68%	K:	149.6812294
	Curve Length:	1,000.00'		
	Passing Distance:	680.38'	Stopping Distance:	446.04'
18	515+50.32	0.09%	500.00'	
	Vertical Curve Information:(sag curve)			
	PVC Station:	513+00.32	Elevation:	585.44'
	PVI Station:	515+50.32	Elevation:	568.57'
	PVT Station:	518+00.32	Elevation:	568.79'
	Low Point:	517+93.82	Elevation:	568.79'
	Grade in:	-6.75%	Grade out:	0.09%
	Change:	6.84%	K:	73.12104017
	Curve Length:	500.00'		
	Headlight Distance:	341.03'		
19	526+30.00	-2.10%	400.00'	
	Vertical Curve Information:(crest curve)			
	PVC Station:	524+30.00	Elevation:	569.35'
	PVI Station:	526+30.00	Elevation:	569.53'
	PVT Station:	528+30.00	Elevation:	565.34'
	High Point:	524+46.27	Elevation:	569.36'
	Grade in:	0.09%	Grade out:	-2.10%
	Change:	2.19%	K:	182.9975181
	Curve Length:	400.00'		
	Passing Distance:	907.45'	Stopping Distance:	504.04'

Vertical Alignment: 2018 Design Profile G28
Station Range: Start: 324+93.76, End: 549+86.08

PVI	Station	Grade Out	Curve Length	
20	532+80.00	2.65%	800.00'	
	Vertical Curve Information:(sag curve)			
	PVC Station:	528+80.00	Elevation:	564.29'
	PVI Station:	532+80.00	Elevation:	555.90'
	PVT Station:	536+80.00	Elevation:	566.48'
	Low Point:	532+33.73	Elevation:	560.58'
	Grade in:	-2.10%	Grade out:	2.65%
	Change:	4.74%	K:	168.6880146
	Curve Length:	800.00'		
	Headlight Distance:	687.10'		
21	539+89.05	-2.91%	460.00'	
	Vertical Curve Information:(crest curve)			
	PVC Station:	537+59.05	Elevation:	568.57'
	PVI Station:	539+89.05	Elevation:	574.66'
	PVT Station:	542+19.05	Elevation:	567.97'
	High Point:	539+78.20	Elevation:	571.47'
	Grade in:	2.65%	Grade out:	-2.91%
	Change:	5.55%	K:	82.83648085
	Curve Length:	460.00'		
	Passing Distance:	508.47'	Stopping Distance:	331.82'
22	546+29.05	1.58%	710.00'	
	Vertical Curve Information:(sag curve)			
	PVC Station:	542+74.05	Elevation:	566.37'
	PVI Station:	546+29.05	Elevation:	556.05'
	PVT Station:	549+84.05	Elevation:	561.65'
	Low Point:	547+34.31	Elevation:	559.68'
	Grade in:	-2.91%	Grade out:	1.58%
	Change:	4.49%	K:	158.2980037
	Curve Length:	710.00'		
	Headlight Distance:	650.03'		
23	549+86.08			

Superelevation Region	Station	Description	Left Outside Shoulder	Left Outside Lane	Right Outside Lane	Right Outside Shoulder
	316+26.50'	Begin Alignment	-4.00%	-2.00%	-2.00%	-4.00%
1	349+44.00'	End Normal Crown	-4.00%	-2.00%	-2.00%	-4.00%
1	349+47.38'	End Normal Shoulder	-4.00%	-2.00%	-2.00%	-4.00%
1	349+97.33'	Level Crown	-4.00%	-2.00%	0.00%	-4.00%
1	350+50.66'	Reverse Crown	-4.00%	-2.00%	2.00%	-4.00%
1	351+03.99'	Begin Shoulder Rollover	-4.00%	-4.00%	4.00%	-2.00%
1	351+57.33'	Begin Full Super	-6.00%	-6.00%	6.00%	-2.00%
1	360+95.40'	End Full Super	-6.00%	-6.00%	6.00%	-2.00%
1	361+48.74'	End Shoulder Rollover	-4.00%	-4.00%	4.00%	-2.00%
1	362+02.07'	Reverse Crown	-4.00%	-2.00%	2.00%	-4.00%
1	362+55.40'	Level Crown	-4.00%	-2.00%	0.00%	-4.00%
1	363+08.73'	Begin Normal Crown	-4.00%	-2.00%	-2.00%	-4.00%
1	363+08.73'	Begin Normal Shoulder	-4.00%	-2.00%	-2.00%	-4.00%
2	366+67.23'	End Normal Shoulder	-4.00%	-2.00%	-2.00%	-4.00%
2	366+67.23'	End Normal Crown	-4.00%	-2.00%	-2.00%	-4.00%
2	367+20.56'	Level Crown	-4.00%	0.00%	-2.00%	-4.00%
2	367+73.90'	Reverse Crown	-4.00%	2.00%	-2.00%	-4.00%
2	368+27.23'	Begin Shoulder Rollover	-2.00%	4.00%	-4.00%	-4.00%
2	368+80.56'	Begin Full Super	-2.00%	6.00%	-6.00%	-6.00%
2	380+64.84'	End Full Super	-2.00%	6.00%	-6.00%	-6.00%
2	381+18.17'	End Shoulder Rollover	-2.00%	4.00%	-4.00%	-4.00%
2	381+71.51'	Reverse Crown	-4.00%	2.00%	-2.00%	-4.00%
2	382+24.84'	Level Crown	-4.00%	0.00%	-2.00%	-4.00%
2	382+78.17'	Begin Normal Shoulder	-4.00%	-2.00%	-2.00%	-4.00%
2	382+78.17'	Begin Normal Crown	-4.00%	-2.00%	-2.00%	-4.00%
3	405+84.00'	End Normal Shoulder	-4.00%	-2.00%	-2.00%	-4.00%
3	405+84.00'	End Normal Crown	-4.00%	-2.00%	-2.00%	-4.00%
3	406+37.33'	Level Crown	-4.00%	-2.00%	0.00%	-4.00%
3	406+90.66'	Reverse Crown	-4.00%	-2.00%	2.00%	-4.00%
3	407+43.99'	Begin Shoulder Rollover	-4.00%	-4.00%	4.00%	-2.00%
3	407+97.33'	Begin Full Super	-6.00%	-6.00%	6.00%	-2.00%
3	413+04.50'	End Full Super	-6.00%	-6.00%	6.00%	-2.00%
3	413+57.84'	End Shoulder Rollover	-4.00%	-4.00%	4.00%	-2.00%
3	414+11.17'	Reverse Crown	-4.00%	-2.00%	2.00%	-4.00%
3	414+64.50'	Level Crown	-4.00%	-2.00%	0.00%	-4.00%
3	415+17.83'	Begin Normal Crown	-4.00%	-2.00%	-2.00%	-4.00%
3	415+17.83'	Begin Normal Shoulder	-4.00%	-2.00%	-2.00%	-4.00%
4	497+72.75'	End Normal Shoulder	-4.00%	-2.00%	-2.00%	-4.00%
4	497+72.75'	End Normal Crown	-4.00%	-2.00%	-2.00%	-4.00%
4	498+26.20'	Level Crown	-4.00%	0.00%	-2.00%	-4.00%
4	498+79.65'	Reverse Crown	-4.00%	2.00%	-2.00%	-4.00%
4	499+33.10'	Begin Shoulder Rollover	-2.00%	4.00%	-4.00%	-4.00%
4	499+81.20'	Begin Full Super	-2.00%	5.80%	-5.80%	-5.80%

Superelevation Region	Station	Description	Left Outside Shoulder	Left Outside Lane	Right Outside Lane	Right Outside Shoulder
4	504+76.70'	End Full Super	-2.00%	5.80%	-5.80%	-5.80%
4	505+24.80'	End Shoulder Rollover	-2.00%	4.00%	-4.00%	-4.00%
4	505+78.25'	Reverse Crown	-4.00%	2.00%	-2.00%	-4.00%
4	506+31.70'	Level Crown	-4.00%	0.00%	-2.00%	-4.00%
4	506+85.15'	Begin Normal Crown	-4.00%	-2.00%	-2.00%	-4.00%
4	506+85.15'	Begin Normal Shoulder	-4.00%	-2.00%	-2.00%	-4.00%
5	510+79.03'	End Normal Crown	-4.00%	-2.00%	-2.00%	-4.00%
5	510+79.03'	End Normal Shoulder	-4.00%	-2.00%	-2.00%	-4.00%
5	511+32.36'	Level Crown	-4.00%	-2.00%	0.00%	-4.00%
5	511+85.69'	Reverse Crown	-4.00%	-2.00%	2.00%	-4.00%
5	512+39.03'	Begin Shoulder Rollover	-4.00%	-4.00%	4.00%	-2.00%
5	512+92.36'	Begin Full Super	-6.00%	-6.00%	6.00%	-2.00%
5	515+30.99'	End Full Super	-6.00%	-6.00%	6.00%	-2.00%
5	515+84.33'	End Shoulder Rollover	-4.00%	-4.00%	4.00%	-2.00%
5	516+37.66'	Reverse Crown	-4.00%	-2.00%	2.00%	-4.00%
5	516+90.99'	Begin Normal Crown	-4.00%	0.00%	0.00%	-4.00%
5	516+90.99'	Begin Normal Shoulder	-4.00%	0.00%	0.00%	-4.00%
5	516+90.99'	Level Crown	-4.00%	0.00%	0.00%	-4.00%
6	516+91.00'	End Normal Shoulder	-4.00%	0.00%	0.00%	-4.00%
6	516+91.00'	End Normal Crown	-4.00%	0.00%	0.00%	-4.00%
6	516+91.00'	Level Crown	-4.00%	0.00%	0.00%	-4.00%
6	517+28.90'	Reverse Crown	-4.00%	2.00%	-2.00%	-4.00%
6	517+58.63'	Begin Full Super	-4.00%	2.60%	-2.60%	-4.00%
6	522+65.90'	End Full Super	-4.00%	2.60%	-2.60%	-4.00%
6	522+81.82'	Reverse Crown	-4.00%	2.00%	-2.00%	-4.00%
6	523+34.90'	Level Crown	-4.00%	0.00%	-2.00%	-4.00%
6	523+87.98'	Begin Normal Crown	-4.00%	-2.00%	-2.00%	-4.00%
6	523+87.98'	Begin Normal Shoulder	-4.00%	-2.00%	-2.00%	-4.00%
	550+15.99'	End Alignment	-4.00%	-2.00%	-2.00%	-4.00%

PROJECT SURVEY POINTS
PROJECT: STBG-SWAP-C070(62)--FG-70

Number	Northing (ft)	Easting (ft)	Elevation (ft)	Description
100	6625246.78	24541431.07	560.5	PROPCOR=SAW X==0===FND COND GOOD
101	6625259.84	24541154.11	562.99	PTC=529+49.9=SAW X==0===FND COND GOOD
102	6625271.63	24540904.23	567.74	PI=527+00=SAW X==0===FND COND GOOD
103	6625273.6	24540866.56	568.26	PROPCOR=SAW X==0===FND COND GOOD
104	6625295.06	24540655.2	569.12	PCC=524+49.86=SAW X==0===FND COND GOOD
108	6627001.42	24522931.28	725.55	SC=NAIL/SPIKE=MAG NAIL=0==10316=FND W/STAMPED WASHER COND GOOD S35773W
109	6627003.91	24522931.33	725.56	PROPCOR=PK/NAIL=MAG NAIL=0==10316=FND W/STAMPED WASHER COND GOOD
111	6625649.87	24538490	645.89	PI=502+49.1=REBAR=1"=1.2===FND COND GOOD
113	6624771.95	24529345.24	748.6	PI=410+56.3=REBAR=3/4"=0.7===FND COND GOOD
114	6624286.1	24524226.5	755.07	PI=356+44.0=REBAR=3/4"=0.3===FND COND GOOD
115	6624286.47	24524214.36	754.85	SC=STONE=0.7===FND COND GOOD SE COR SE-NE2763W
118	6625331.47	24525549.15	756.46	USGSMON=559
119	6625374.45	24525780.95	751.01	PI=375+07.63=REBAR=3/4"=1.2===COND GOOD
6395	6626892.2	24544111.25	678.67	SC=REBAR=1/2"=0.3'ABOVE=YELLOW=ILLEG=N4762W CAP ILLEG COND GOOD
6396	6624235.98	24544042.59	540.09	SC=SCM W/TABLET=4"x4"=0.5'ABOVE===C4762W FND CONC MON W/1/2" REBAR IN CENTER COND GOOD
6397	6624978.67	24543324.82	550.27	PROPCOR=REBAR=5/8"=0.1`ABOVE==IOWA DOT=FND ROW REBAR ALUM CAP GOOD COND
6398	6625013.61	24543236.5	549.53	PROPCOR=REBAR=5/8"=0==IOWA DOT=FND ROW REBAR ALUM CAP GOOD COND
6399	6624256.68	24541413.02	552.39	SC=REBAR=1/2"=1.5=YELLOW=10316=E5762W COND GOOD
6401	6625867.07	24540114.52	570.93	PROPCOR=PIPE=3/4"=0.4===LEANING SLIGHT SOUTH GOOD COND
6402	6626913.4	24540131.49	596.59	SC=PIPE=3/4"=2'ABOVE===NE-NWNE5762W LEANING NORTH GOOD COND
6403	6626906.77	24541460.98	657.15	SC=REBAR=1/2"=0.3`ABOVE=YELLOW=ILLEG=NE5762W COND GOOD
6405	6625818.37	24538779.86	653.54	PROPCOR=REBAR=1/2"=0=YELLOW=10316=GOOD COND
6407	6625742.36	24537988.01	666.65	PROPCOR=REBAR=1/2"=0.2'ABOVE=YELLOW=10316=GOOD COND
6408	6625791.85	24537927.88	668.15	PROPCOR=REBAR=1/2"=0.2'ABOVE=YELLOW=10316=GOOD COND
6409	6625882.46	24538788.02	669.1	PROPCOR=REBAR=1/2"=0.2'ABOVE=YELLOW=DOC=GOOD COND
6410	6626918.25	24538808.08	661.93	SC=SCM W/TABLET=4"x4"=0===N5762W GOOD COND

PROJECT SURVEY POINTS
PROJECT: STBG-SWAP-C070(62)--FG-70

Number	Northing (ft)	Easting (ft)	Elevation (ft)	Description
6411	6626915.36	24537485.38	704.86	SC=REBAR=5/8"=0.1=YELLOW=MMS 14675=NW-NENW5762W GOOD COND
6412	6626913.15	24536156.56	664.57	SC=REBAR=1/2"=0.5=YELLOW=ILLEG=NW5762W GOOD COND
6416	6625866.7	24539032.11	672.63	PROPCOR=REBAR=1/2"=0.2ABOVE=YELLOW=7550=GOOD COND
6422	6625569.21	24536137.83	618.24	PROPCOR=REBAR=1/2"=0.6ABOVE=YELLOW=ILLEG=CAP DAMAGED REBAR LEANING SLIGHT WEST
6424	6625866.99	24539523.81	627.26	PROPCOR=REBAR=1/2"=0.1ABOVE=YELLOW=DOC 7550=COND GOOD
6426	6626352.99	24536149.33	638.82	PROPCOR=REBAR=1/2"=1.5ABOVE=YELLOW=10316=CAST IN CONCRETE COND GOOD
6427	6626353.89	24536538.17	664.42	PROPCOR=REBAR=1/2"=0.75ABOVE=YELLOW=ILLEG=CAST IN CONCRETE CAP DAMAGED REBAR GOOD COND
6429	6626578.79	24537872.26	694.49	PROPCOR=REBAR=1/2"=0.5=YELLOW=ILLEG=COND GOOD
6430	6626502.93	24537966	693.21	PCC=22+04.4=REBAR=1/2"=0.3===GOOD COND
6432	6625181.88	24539227.66	566.04	PROPCOR=REBAR=5/8"=0===FND SEVERELY BENT DUG DOWN AND SHOT NE SIDE
6433	6625180.85	24538944.89	566.35	PROPCOR=REBAR=5/8"=0.5ABOVE===LEANING SLIGHT EAST GOOD COND
6434	6625071.01	24538408.43	566.98	PI=84+00=REBAR=5/8"=0.9===GOOD COND
6435	6625083.38	24538303.89	568.18	PROPCOR=REBAR=5/8"=0=WHITE FADED=MMS 7036=COND GOOD
6436	6625051.07	24538310.24	564.81	PROPCOR=REBAR=5/8"=0.3===FND LEANING SEVERE WEST STRAIGHTENED/MEASURED
6443	6621590.72	24538704.9	537.17	SC=REBAR=5/8"=0=LT BLUE=23526=
8052	6625091.67	24542779.87	546.46	PROPCOR=REBAR=5/8"=2.1=WHITE FADED==IOWA DOT ON CAP
8053	6625156.09	24542632.87	558.2	PROPCOR=REBAR=5/8"=0=WHITE FADED==IOWA DOT ON CAP
8054	6625076.59	24543079.38	548.25	PROPCOR=REBAR=5/8"=1.1=WHITE FADED==IOWA DOT ON CAP
9407	6625257.21	24541212.02	562.21	PROPCOR=SAW X==0===
9408	6625290.19	24541213.55	562.92	PROPCOR=REBAR=1/2"=0=YELLOW=10316=
9409	6625279.65	24541432.66	562.38	PROPCOR=REBAR=1/2"=0=YELLOW=10316=
9410	6625306.88	24540861.54	569.22	PROPCOR=REBAR=1/2"=0=YELLOW=10316=
11001	6621590.71	24538704.89	0	SC=REBAR=5/8"=0=LTBLUE=23526=S5762W
11006	6624253.31	24536120.32	0	SC=REBAR=5/8"=0=LTBLUE=23526=W5762W

108-23A
08-01-08

TRAFFIC CONTROL PLAN

1. This project shall be "CLOSED" to through traffic including vehicles and pedestrians. The access to private property shall be maintained by the contractor during construction.

2. Traffic control devices, procedures, layouts and signing installed as part of this project shall conform to the "manual on Traffic Control devices for Streets and Highways" as adopted by the Department per 761 of the Iowa Adminstration Code (IAC) chapter 130.

3. Traffic Control on this project shall be in accordance with the TC-252 of Standard Road Plans "Situation 1 (Rural)", when outside of City Limits and Situation 1 (Urban) when inside the City Limits.

4. All traffic control devices shall be furnished, erected, maintained and removed by the contractor.

5. Proposed sign spacing may be modified as approved by the Engineer to meet existing field restrictions or to prevent obstructions of the motorist's view of permanent signing.

6. Proposed changes in the traffic control plan shall be reviewed and approved by the Engineer before changes are made.

7. The bid item "Traffic Control" shall include the cost for all traffic control measures required of the contractor except for those which are separate bid items or are incidental to other bid items.

8. All detour signing as shown on the J-Sheets shall be furnished, erected, maintained and removed by the contractor.

9. A traffic Control Diary shall be maintained by the contractor or subcontractor on site and available to the engineer on a weekly basis as per Standard Specification 2528.01.C.

10. The contractor shall notify the Local IDOT Maintenance Shop prior to starting work. Contact Phone Number: (563)-263-6242.

11. The Contractor shall remove and stockpile all existing signs and supports after the road is closed.

12. Muscatine County Maintenance shall pickup stockpiled signs and remove them from project limits.

MUSCATINE-50
04-15-14

TRAFFIC CONTROL NOTE

THE CONTRACTOR SHALL FURNISH, ERECT, OPERATE, MAINTAIN, MOVE AND REMOVE ALL TRAFFIC CONTROL DEVICES REQUIRED BY CURRENT SPECIFICATIONS AND CONFORM TO THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS" AS ADOPTED BY THE DEPARTMENT PER 761 OF THE IOWA ADMINISTRATIVE CODE (IAC) CHAPTER 130. ALL SIGNS SHALL BE MAINTAINED ON A 24-HOUR DAY, 7 DAY WEEK BASIS DURING CONSTRUCTION OF THIS PROJECT. CONSTRUCTION WILL BE SUSPENDED IN THE EVENT ANY OF THE REQUIRED LEGIBLE TRAFFIC CONTROL SIGNS ARE NOT IN PLACE AND WILL REMAIN SUSPENDED UNTIL THE DEFICIENCY IS CORRECTED. ALL INTERSECTIONS SHALL BE SIGNED WITH THE APPROPRIATE SITUATION AS SHOWN ON STANDARD TC-252. ALL TYPE 3 BARRICADES SHALL HAVE A MINIMUM OF 4 SANDBAGS.

MUSCATINE-51
04-15-14

TYPE 3 BARRICADES NOTE

ALL TYPE 3 BARRICADES SHALL HAVE TWO (2) TYPE 'A' LOW INTENSITY FLASHING LIGHTS.

MUSCATINE-52
04-15-14

SIGN LOCATION NOTE

ALL SIGNS SHALL BE FURNISHED, ERECTED AND MAINTAINED BY THE CONTRACTOR. EXACT LOCATIONS MAY BE FIELD ADJUSTED, PER MUSCATINE COUNTY ENGINEER'S APPROVAL TO FIT CONDITIONS.

NO SIGNS SHALL BE LOCATED THAT WOULD CAUSE ANY RESTRICTION FOR THE MOTORISTS VIEW OF PERMANENT SIGNING, OR ANY VEHICLE TRAVELING, ENTERING OR EXITING THE ROADWAY.

113-2
04-16-13

PEDESTRIAN PATH CLOSURES

Refer to TC-601.

*Assumes 6 foot wide barricade.
Closures may need to be removed and re-established.

Location	Side	Type III Barricades* No.	Remarks
STA 547+75	LT	2	SEE SHEET D7 FOR LOCATION OF RECREATIONAL TRAIL

108-26A
08-01-08

STAGING NOTES

GENERAL STAGING NOTES:

THIS PLAN WAS DEVELOPED TO ALLOW RESIDENTS ACCESS DURING CONSTRUCTION OF THIS PROJECT. ANY DEVIATIONS FROM THIS PLAN WILL NEED TO BE AGREEABLE WITH THE ENGINEER, RESIDENTS, AND BUSINESSES.

THE CONTRACTOR SHALL MAINTAIN ACCESS FROM AT LEAST ONE DIRECTION AT ALL TIMES FOR ALL BUSINESSES AND RESIDENTS ALONG THE PROJECT ROUTE.

THE CONTRACTOR SHALL MAINTAIN ACCESS FROM THE EAST AT ALL TIMES FOR THE FOLLOWING BUSINESSES. THE CONTRACTOR WILL BE ALLOWED TO SHUT DOWN ACCESS TO THE EAST DURING PAVING, IN ORDER TO COMPLETE THE PAVING FULL WIDTH. DURING THIS TIME ACCESS SHALL BE PROVIDED FROM THE WEST.

BRIDGESTONE BANDAG LLC - ADDRESS 2371
CUSTOM FEEDS INC - ADDRESS 2392
LUTHERAN HOMES SOCIETY - ADDRESS 2421 LUTHERAN DRIVE

THE CONTRACTOR WILL BE REQUIRED TO COMPLETE ALL GRADING FOR EMBANKMENTS AND OTHER ASSOCIATED ITEMS AS NOTED IN THE REFERENCE NOTES PRIOR TO THE START OF PAVING THAT STAGE.

THE CONTRACTOR WILL BE REQUIRED TO COMPLETE ALL ITEMS OF WORK WITHIN THE LIMITS OF EACH STAGE, WITH THE EXCEPTION OF PAVEMENT MARKING ITEMS, PRIOR TO BEGINNING WORK IN ANY OTHER STAGES. WITH APPROVAL OF THE ENGINEER, IT MAY BE POSSIBLE FOR THE CONTRACTOR TO WORK ON TWO STAGES SIMULTANEOUSLY THAT ARE NOT ABBUTING EACH OTHER, AND ARE ALLOWING ACCESS TO RESIDENTS AND BUSINESSES, AS INTENDED BY THIS STAGING PLAN.

PAVEMENT MARKING ITEMS MAY BE COMPLETED AT THE END, AFTER COMPLETION OF ALL STAGES OF WORK.

STAGE 1
STATION 342+00 TO STATION 417+95±
231ST STREET G2, FROM JUST WEST OF HIGH PRAIRIE ROAD, EAST TO THE CENTERLINE OF FUNKS HILL ROAD (SOUTH). THIS STAGE INCLUDES PAVING AND ASSOCIATED WORK ON HIGH PRAIRIE ROAD AND THE WEST ½ OF FUNKS HILL ROAD INTERSECTION.

STAGE 2
STATION 417+95± TO STATION 457+38±
231ST STREET G28, FROM THE CENTERLINE OF FUNKS HILL ROAD TO THE CENTERLINES OF N. HILLTOP DRIVE AND RIDGEVIEW DRIVE (NORTH AND SOUTH). THIS STAGE INCLUDES PAVING AND ASSOCIATED WORK ON THE EAST ½ OF FUNKS HILL ROAD INTERSECTION AND THE WEST ½ OF N. HILLTOP DRIVE AND RIDGEVIEW DRIVE INTERSECTIONS.

STAGE 3
STATION 457+38± TO STATION 470+80±
231ST STREET G28, FROM THE CENTERLINES OF N. HILLTOP DRIVE AND RIDGEVIEW DRIVE (NORTH AND SOUTH) TO THE CENTERLINE OF KINCAID AVENUE (NORTH). THIS STAGE INCLUDES PAVING AND ASSOCIATED WORK ON THE EAST ½ OF N. HILLTOP DRIVE AND RIDGEVIEW DRIVE INTERSECTIONS AND THE WEST ½ OF KINCAID AVENUE INTERSECTION.

STAGE 4
STATION 470+80± TO STATION 492+75±
231ST STREET G28, FROM THE CENTERLINE OF KINCAID AVENUE TO THE CENTERLINE OF HICKORY HILLS ROAD (NORTH). THIS STAGE INCLUDES PAVING AND ASSOCIATED WORK ON THE EAST ½ OF KINCAID AVENUE INTERSECTION AND THE WEST ½ OF HICKORY HILLS ROAD INTERSECTION.

STAGE 5
STATION 492+75± TO STATION 515+00±
231ST STREET G28, FROM THE CENTERLINE OF HICKORY HILLS ROAD TO THE CENTERLINE OF BURLINGTON ROAD (SOUTH). THIS STAGE INCLUDES PAVING AND ASSOCIATED WORK ON THE EAST ½ OF HICKORY HILLS ROAD INTERSECTION, SEVEN SPRINGS ROAD, AND THE WEST ½ OF BURLINGTON ROAD INTERSECTION.

STAGE 6
STATION 515+00± TO STATION 525+20±
231ST STREET G28, FROM THE CENTERLINE OF BURLINGTON ROAD TO THE CENTERLINE OF CUSTOM FEEDS INC. EAST DRIVEWAY (SOUTH). THIS STAGE INCLUDES PAVING AND ASSOCIATED WORK ON THE EAST ½ OF BURLINGTON ROAD INTERSECTION AND WEST ½ OF DRIVEWAY.

STAGE 7
STATION 525+20± TO STATION 539+27±
231ST STREET G28, FROM THE CENTERLINE OF CUSTOM FEEDS INC. EAST DRIVEWAY TO THE CENTERLINE OF LUTHERAN DRIVE (NORTH). THIS STAGE INCLUDES PAVING AND ASSOCIATED WORK ON THE EAST ½ OF DRIVEWAY AND THE WEST ½ OF LUTHERAN DRIVE INTERSECTION.

STAGE 8
STATION 539+27± TO STATION 546+75
231ST STREET G28, FROM THE CENTERLINE OF LUTHERAN DRIVE TO THE END OF THE PROJECT. THIS STAGE INCLUDES PAVING AND ASSOCIATED WORK ON THE EAST ½ OF THE LUTHERAN DRIVE INTERSECTION.

PROJECT LOCATION

DETOUR ROUTE

DETOUR ROUTE LOCATION

FILE NO.	ENGLISH	DESIGN TEAM	WHITE\MICHAEL\HORESOWSKY	MUSCATINE COUNTY	PROJECT NUMBER	STBG-SWAP-C070(62)--FG-70	SHEET NUMBER	J2

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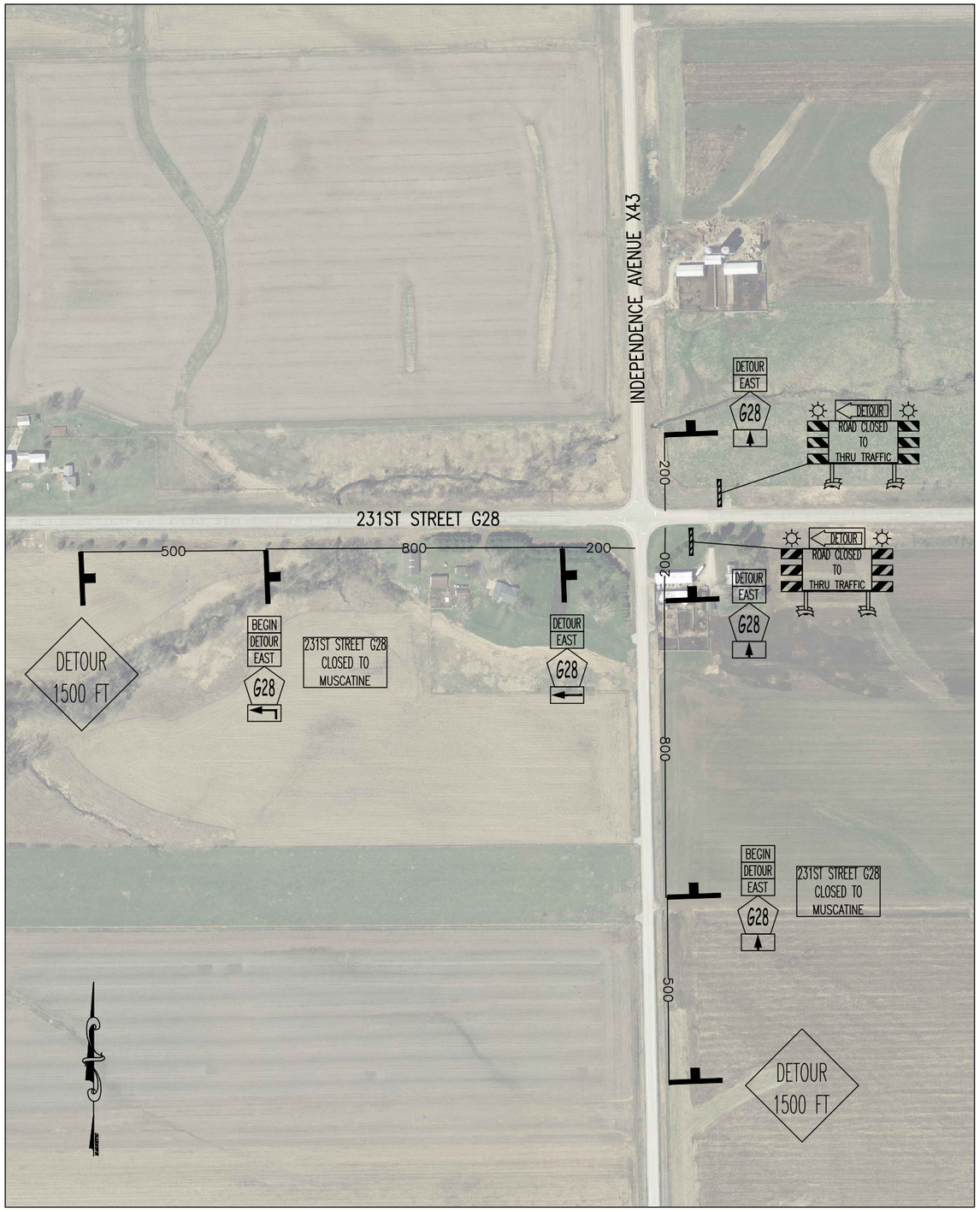
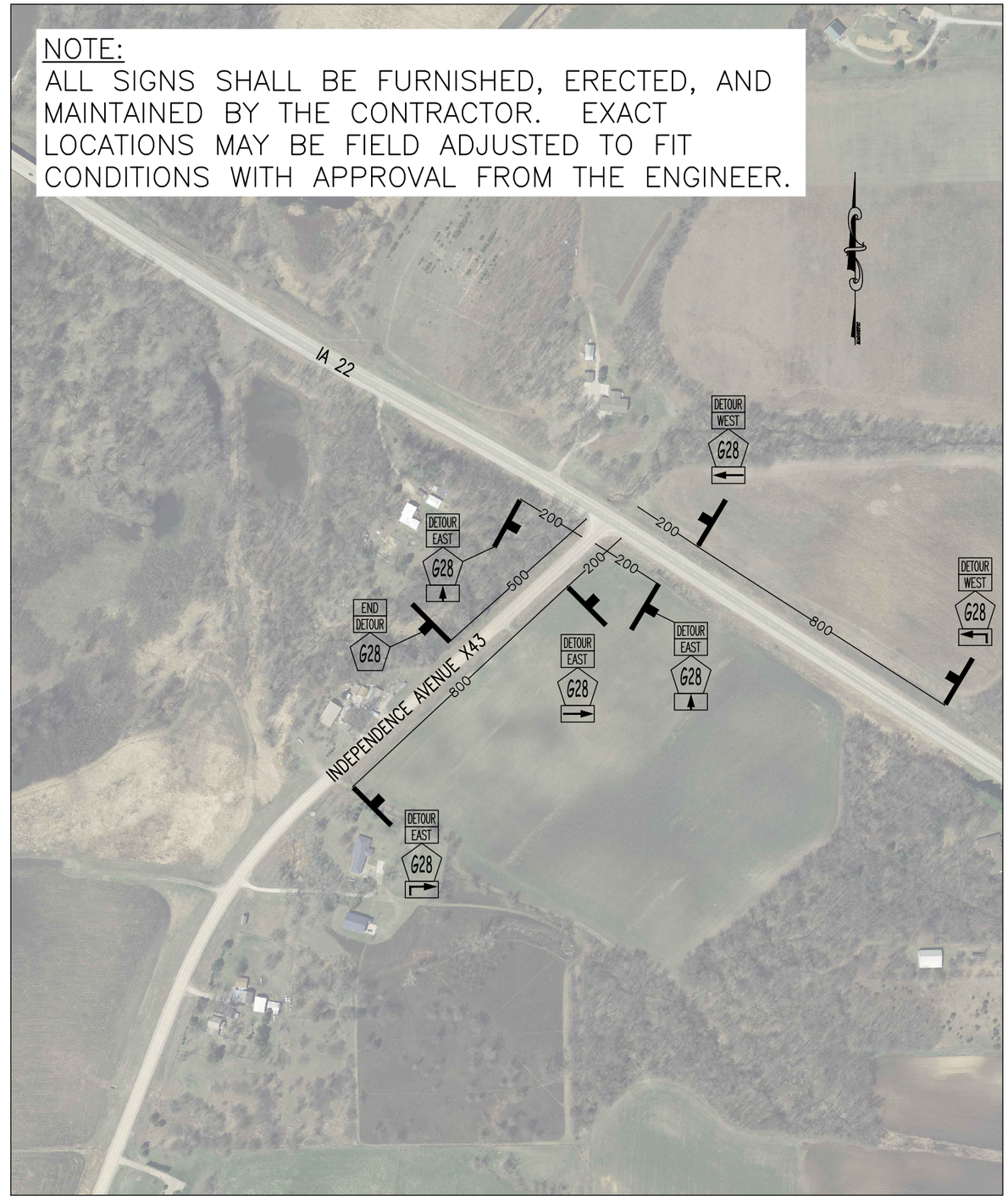


INDEPENDENCE AVENUE & 231ST STREET



IA 22 & INDEPENDENCE AVENUE

FILE NO.	ENGLISH	DESIGN TEAM WHITE\MICHAEL\HORESOWSKY	MUSCATINE COUNTY	PROJECT NUMBER STBG-SWAP-C070(62)--FG-70	SHEET NUMBER J3

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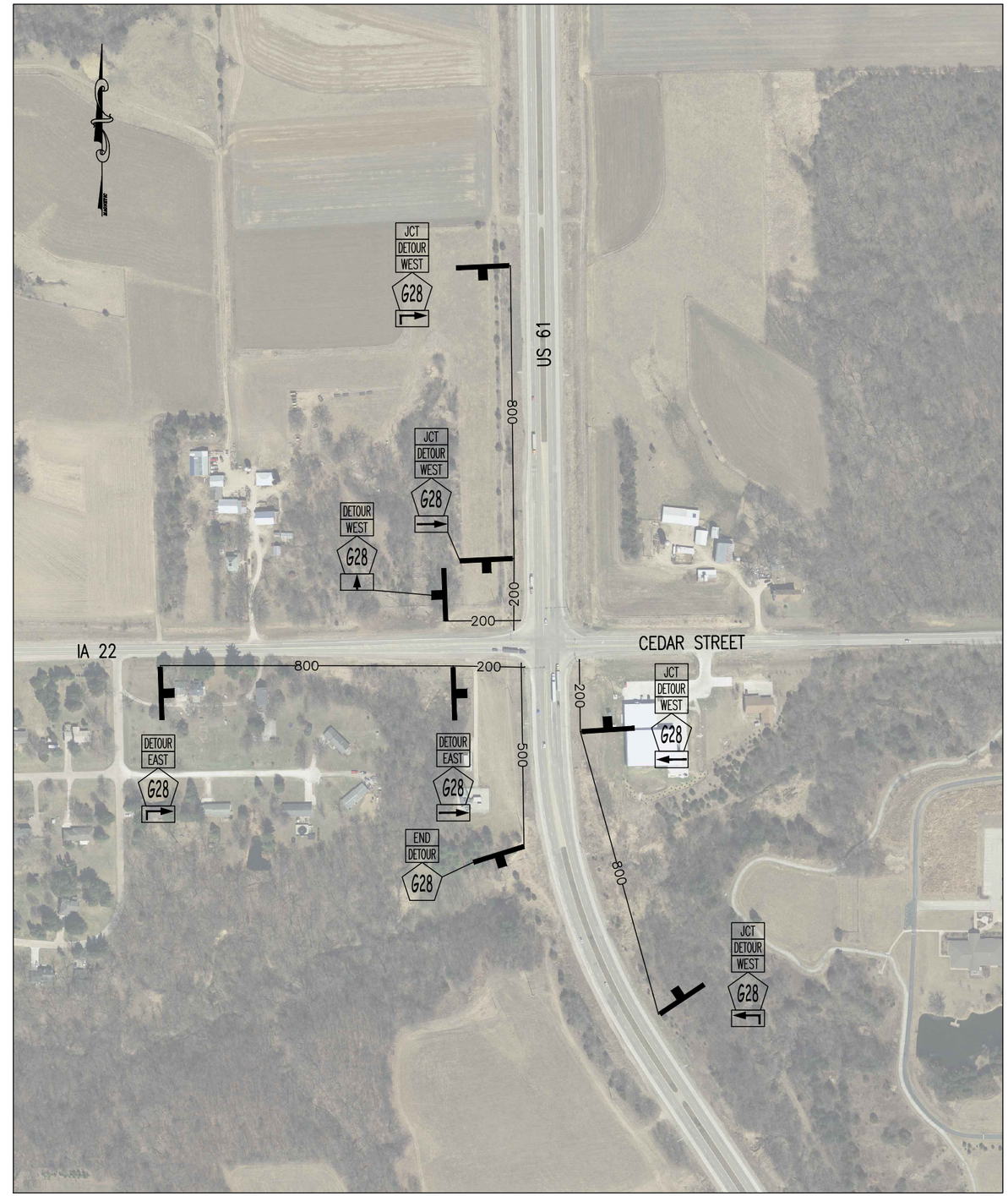
NOTE:
ALL SIGNS SHALL BE FURNISHED, ERECTED, AND MAINTAINED BY THE CONTRACTOR. EXACT LOCATIONS MAY BE FIELD ADJUSTED TO FIT CONDITIONS WITH APPROVAL FROM THE ENGINEER.

IA 22 & HIGH PRAIRIE ROAD



IA 22 & US 61

FILE NO.	ENGLISH	DESIGN TEAM	WHITE\MICHAEL\HORESOWSKY	MUSCATINE COUNTY	PROJECT NUMBER	STBG-SWAP-C070(62)--FG-70	SHEET NUMBER	J4

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NOTE:
ALL SIGNS SHALL BE FURNISHED, ERECTED, AND MAINTAINED BY THE CONTRACTOR. EXACT LOCATIONS MAY BE FIELD ADJUSTED TO FIT CONDITIONS WITH APPROVAL FROM THE ENGINEER.

IA 22 & US 61

FILE NO.	ENGLISH	DESIGN TEAM WHITE\MICHAEL\HORESOWSKY	MUSCATINE COUNTY	PROJECT NUMBER STBG-SWAP-C070(62)--FG-70	SHEET NUMBER J5

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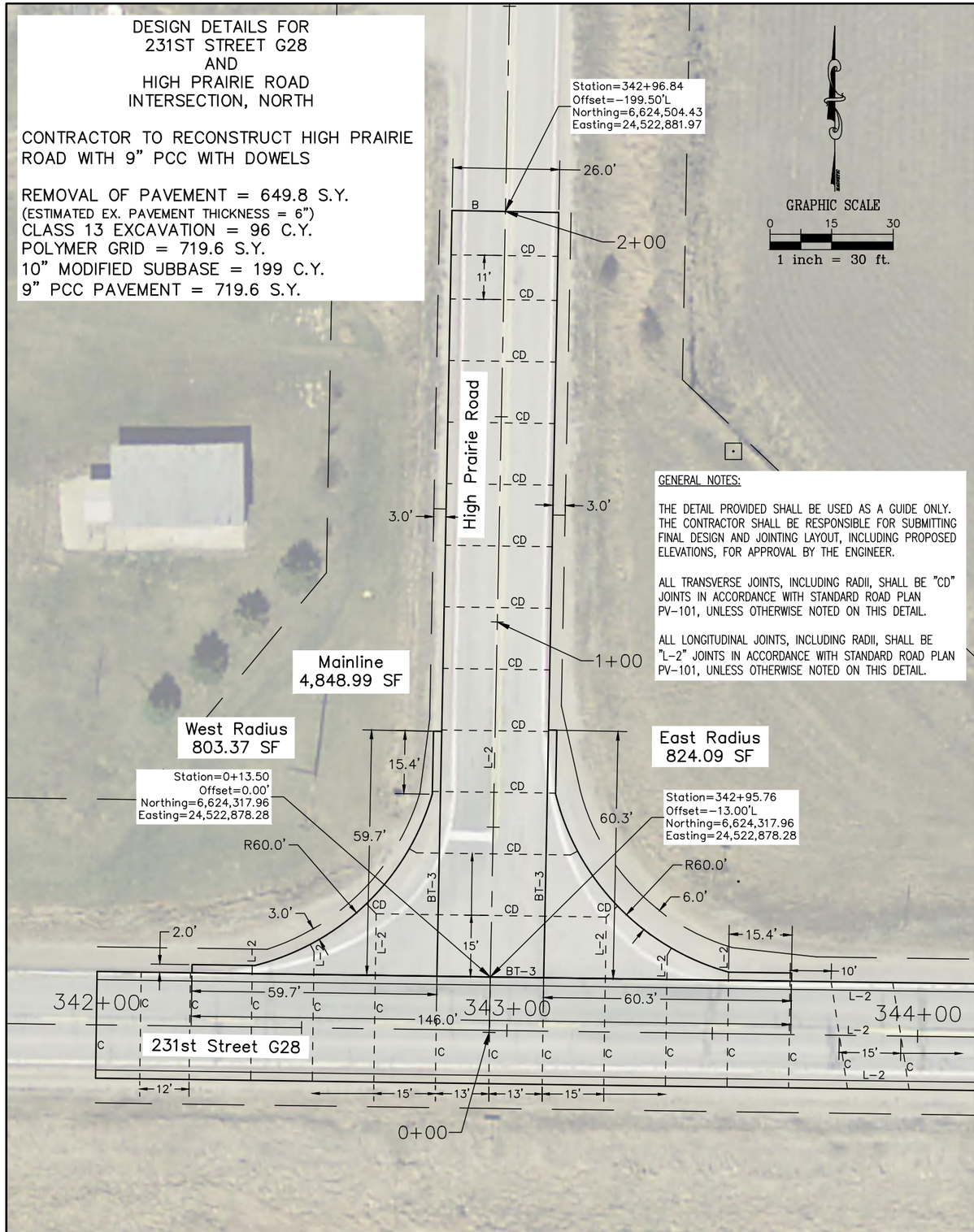
DESIGN DETAILS FOR
231ST STREET G28
AND
HIGH PRAIRIE ROAD
INTERSECTION, NORTH

CONTRACTOR TO RECONSTRUCT HIGH PRAIRIE ROAD WITH 9" PCC WITH DOWELS

REMOVAL OF PAVEMENT = 649.8 S.Y.
(ESTIMATED EX. PAVEMENT THICKNESS = 6")
CLASS 13 EXCAVATION = 96 C.Y.
POLYMER GRID = 719.6 S.Y.
10" MODIFIED SUBBASE = 199 C.Y.
9" PCC PAVEMENT = 719.6 S.Y.

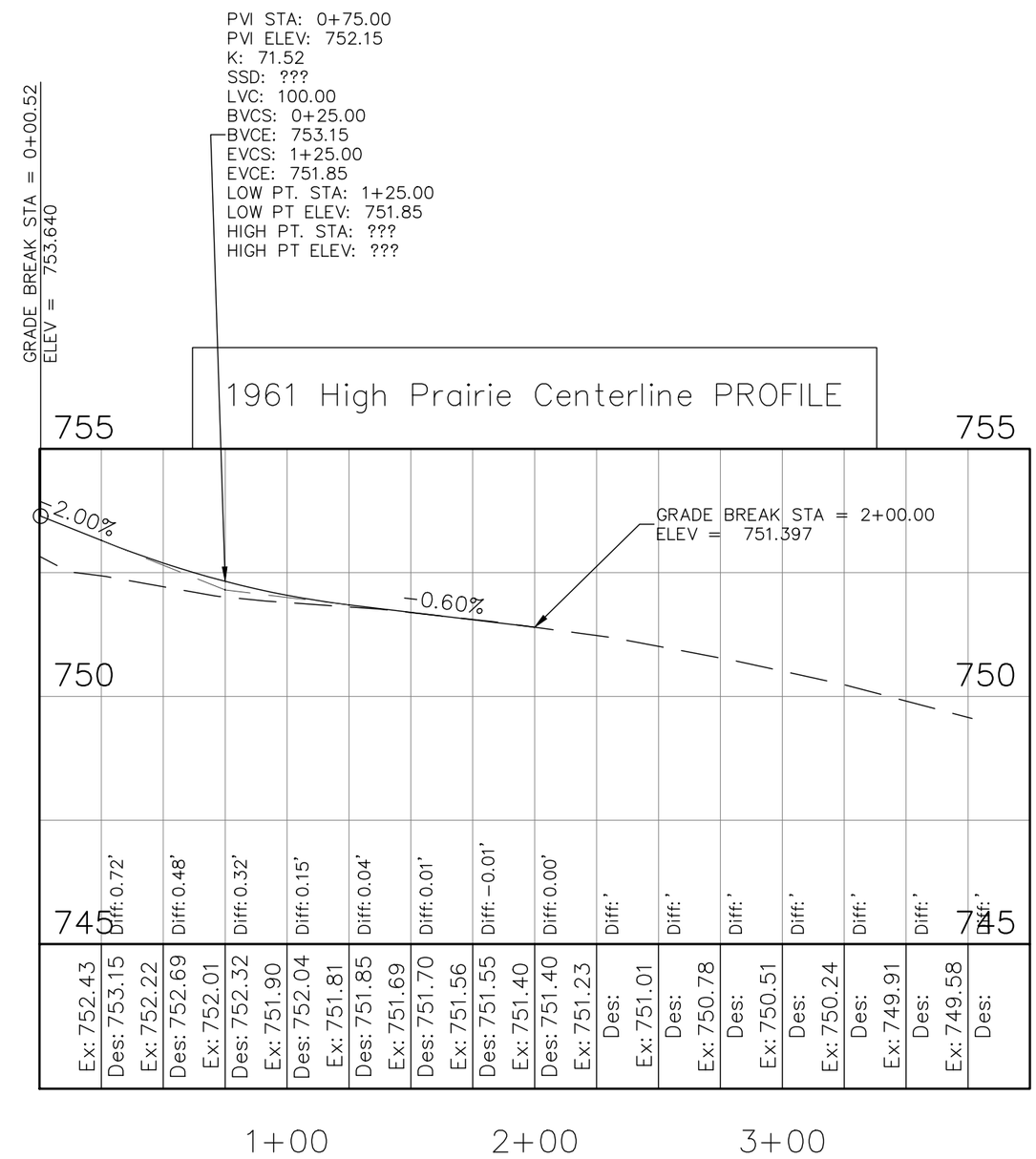


GENERAL NOTES:

THE DETAIL PROVIDED SHALL BE USED AS A GUIDE ONLY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SUBMITTING FINAL DESIGN AND JOINTING LAYOUT, INCLUDING PROPOSED ELEVATIONS, FOR APPROVAL BY THE ENGINEER.

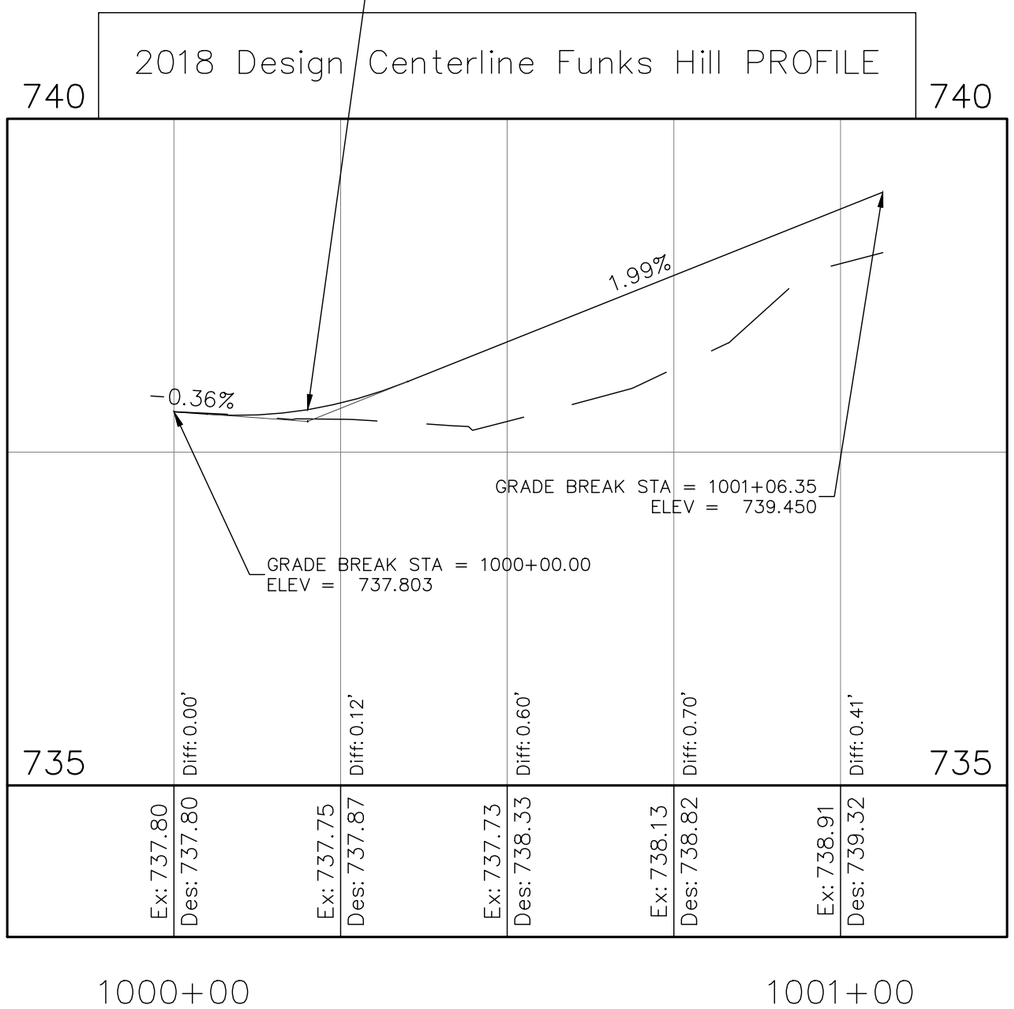
ALL TRANSVERSE JOINTS, INCLUDING RADII, SHALL BE "CD" JOINTS IN ACCORDANCE WITH STANDARD ROAD PLAN PV-101, UNLESS OTHERWISE NOTED ON THIS DETAIL.

ALL LONGITUDINAL JOINTS, INCLUDING RADII, SHALL BE "L-2" JOINTS IN ACCORDANCE WITH STANDARD ROAD PLAN PV-101, UNLESS OTHERWISE NOTED ON THIS DETAIL.



FILE NO.	.	ENGLISH	DESIGN TEAM	WHITE\MICHAEL\HORESOWSKY	MUSCATINE COUNTY	PROJECT NUMBER	STBG-SWAP-C070(62)--FG-70	SHEET NUMBER	L1	REVISED	.

PVI STA: 1000+20.07
PVI ELEV: 737.73
K: 12.73
SSD: ???
LVC: 30.00
BVCS: 1000+05.07
BVCE: 737.78
EVCS: 1000+35.07
EVCE: 738.03
LOW PT. STA: 1000+09.69
LOW PT ELEV: 737.78
HIGH PT. STA: ???
HIGH PT ELEV: ???

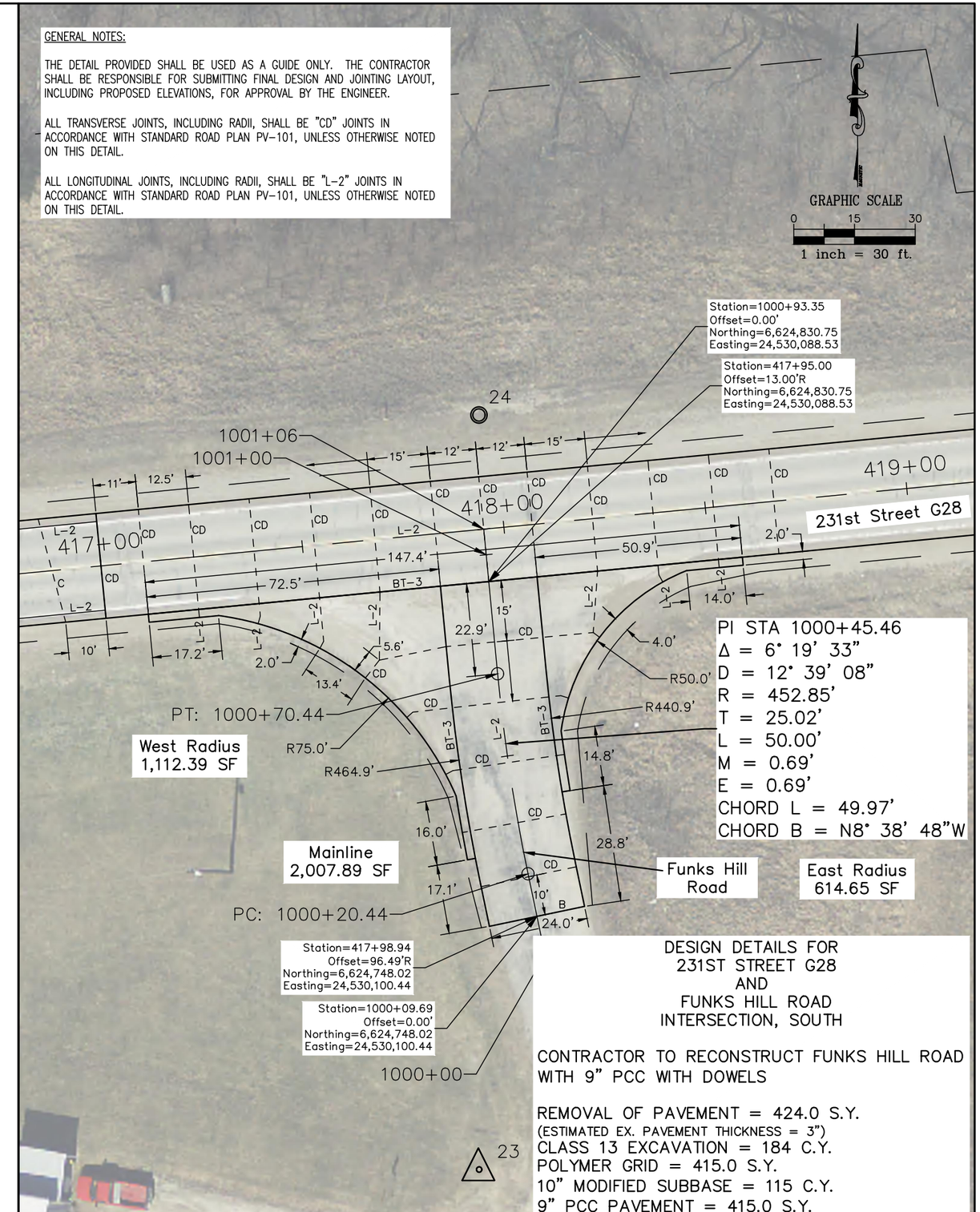


GENERAL NOTES:

THE DETAIL PROVIDED SHALL BE USED AS A GUIDE ONLY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SUBMITTING FINAL DESIGN AND JOINTING LAYOUT, INCLUDING PROPOSED ELEVATIONS, FOR APPROVAL BY THE ENGINEER.

ALL TRANSVERSE JOINTS, INCLUDING RADII, SHALL BE "CD" JOINTS IN ACCORDANCE WITH STANDARD ROAD PLAN PV-101, UNLESS OTHERWISE NOTED ON THIS DETAIL.

ALL LONGITUDINAL JOINTS, INCLUDING RADII, SHALL BE "L-2" JOINTS IN ACCORDANCE WITH STANDARD ROAD PLAN PV-101, UNLESS OTHERWISE NOTED ON THIS DETAIL.



DESIGN DETAILS FOR
231ST STREET G28
AND
FUNKS HILL ROAD
INTERSECTION, SOUTH

CONTRACTOR TO RECONSTRUCT FUNKS HILL ROAD WITH 9" PCC WITH DOWELS

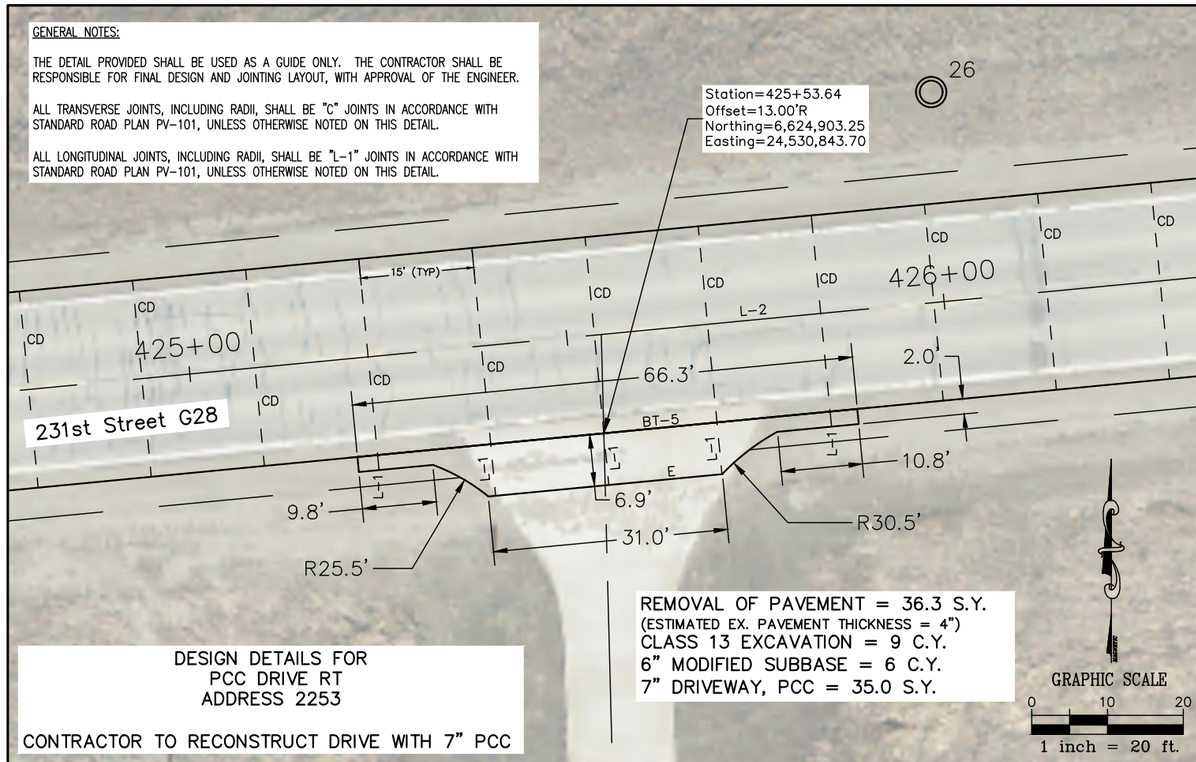
REMOVAL OF PAVEMENT = 424.0 S.Y.
(ESTIMATED EX. PAVEMENT THICKNESS = 3")
CLASS 13 EXCAVATION = 184 C.Y.
POLYMER GRID = 415.0 S.Y.
10" MODIFIED SUBBASE = 115 C.Y.
9" PCC PAVEMENT = 415.0 S.Y.

GENERAL NOTES:

THE DETAIL PROVIDED SHALL BE USED AS A GUIDE ONLY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FINAL DESIGN AND JOINTING LAYOUT, WITH APPROVAL OF THE ENGINEER.

ALL TRANSVERSE JOINTS, INCLUDING RADII, SHALL BE "C" JOINTS IN ACCORDANCE WITH STANDARD ROAD PLAN PV-101, UNLESS OTHERWISE NOTED ON THIS DETAIL.

ALL LONGITUDINAL JOINTS, INCLUDING RADII, SHALL BE "L-1" JOINTS IN ACCORDANCE WITH STANDARD ROAD PLAN PV-101, UNLESS OTHERWISE NOTED ON THIS DETAIL.



REMOVAL OF PAVEMENT = 36.3 S.Y.
(ESTIMATED EX. PAVEMENT THICKNESS = 4")
CLASS 13 EXCAVATION = 9 C.Y.
6" MODIFIED SUBBASE = 6 C.Y.
7" DRIVEWAY, PCC = 35.0 S.Y.

DESIGN DETAILS FOR
PCC DRIVE RT
ADDRESS 2253

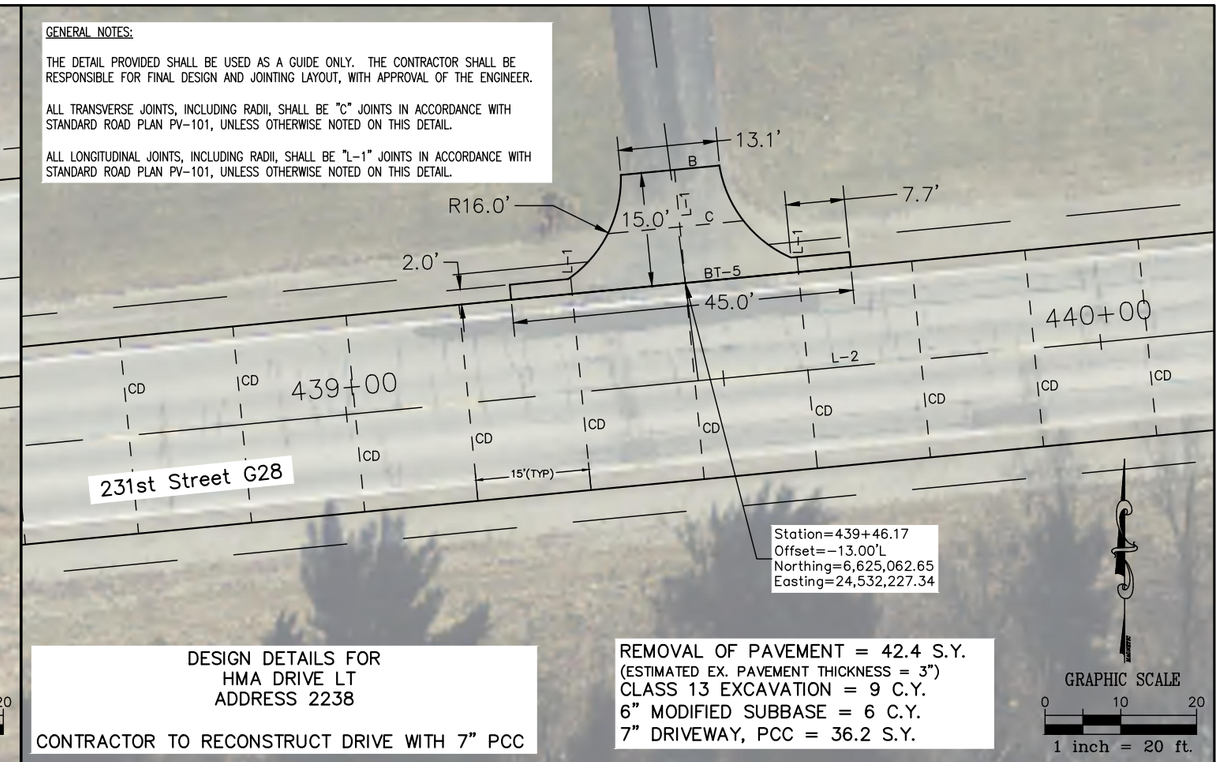
CONTRACTOR TO RECONSTRUCT DRIVE WITH 7" PCC

GENERAL NOTES:

THE DETAIL PROVIDED SHALL BE USED AS A GUIDE ONLY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FINAL DESIGN AND JOINTING LAYOUT, WITH APPROVAL OF THE ENGINEER.

ALL TRANSVERSE JOINTS, INCLUDING RADII, SHALL BE "C" JOINTS IN ACCORDANCE WITH STANDARD ROAD PLAN PV-101, UNLESS OTHERWISE NOTED ON THIS DETAIL.

ALL LONGITUDINAL JOINTS, INCLUDING RADII, SHALL BE "L-1" JOINTS IN ACCORDANCE WITH STANDARD ROAD PLAN PV-101, UNLESS OTHERWISE NOTED ON THIS DETAIL.



REMOVAL OF PAVEMENT = 42.4 S.Y.
(ESTIMATED EX. PAVEMENT THICKNESS = 3")
CLASS 13 EXCAVATION = 9 C.Y.
6" MODIFIED SUBBASE = 6 C.Y.
7" DRIVEWAY, PCC = 36.2 S.Y.

DESIGN DETAILS FOR
HMA DRIVE LT
ADDRESS 2238

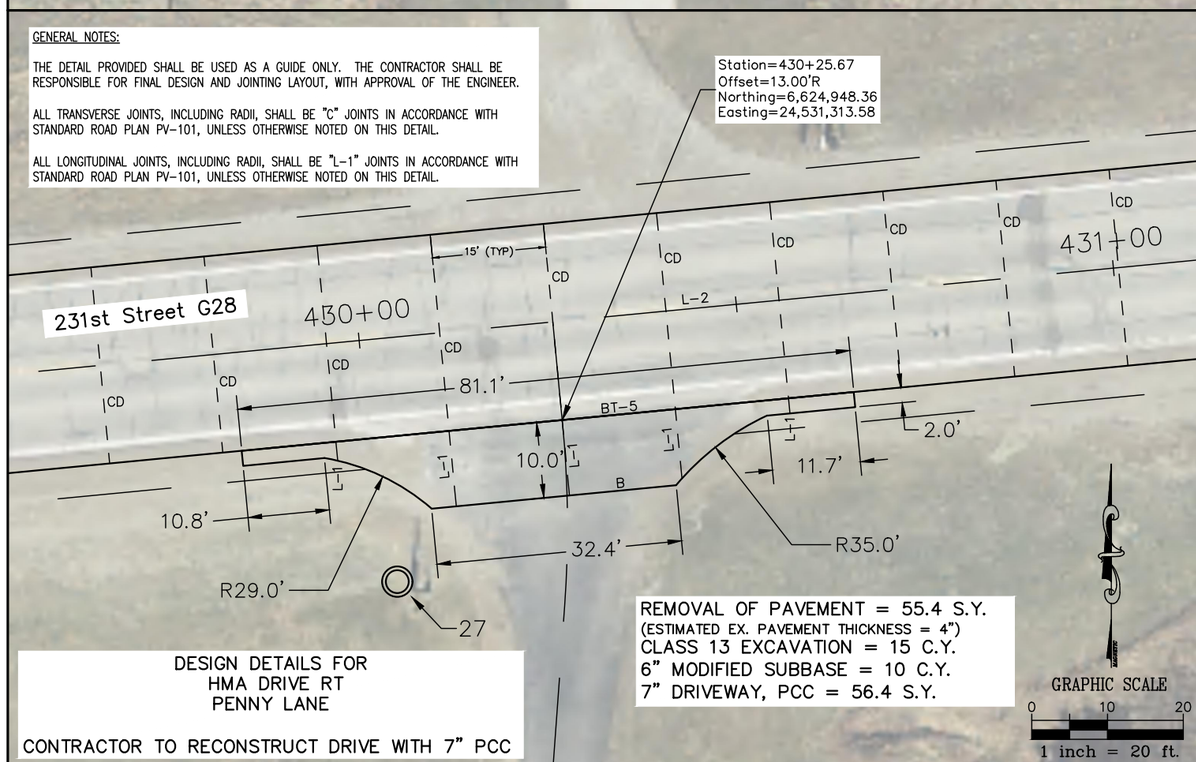
CONTRACTOR TO RECONSTRUCT DRIVE WITH 7" PCC

GENERAL NOTES:

THE DETAIL PROVIDED SHALL BE USED AS A GUIDE ONLY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FINAL DESIGN AND JOINTING LAYOUT, WITH APPROVAL OF THE ENGINEER.

ALL TRANSVERSE JOINTS, INCLUDING RADII, SHALL BE "C" JOINTS IN ACCORDANCE WITH STANDARD ROAD PLAN PV-101, UNLESS OTHERWISE NOTED ON THIS DETAIL.

ALL LONGITUDINAL JOINTS, INCLUDING RADII, SHALL BE "L-1" JOINTS IN ACCORDANCE WITH STANDARD ROAD PLAN PV-101, UNLESS OTHERWISE NOTED ON THIS DETAIL.



REMOVAL OF PAVEMENT = 55.4 S.Y.
(ESTIMATED EX. PAVEMENT THICKNESS = 4")
CLASS 13 EXCAVATION = 15 C.Y.
6" MODIFIED SUBBASE = 10 C.Y.
7" DRIVEWAY, PCC = 56.4 S.Y.

DESIGN DETAILS FOR
HMA DRIVE RT
PENNY LANE

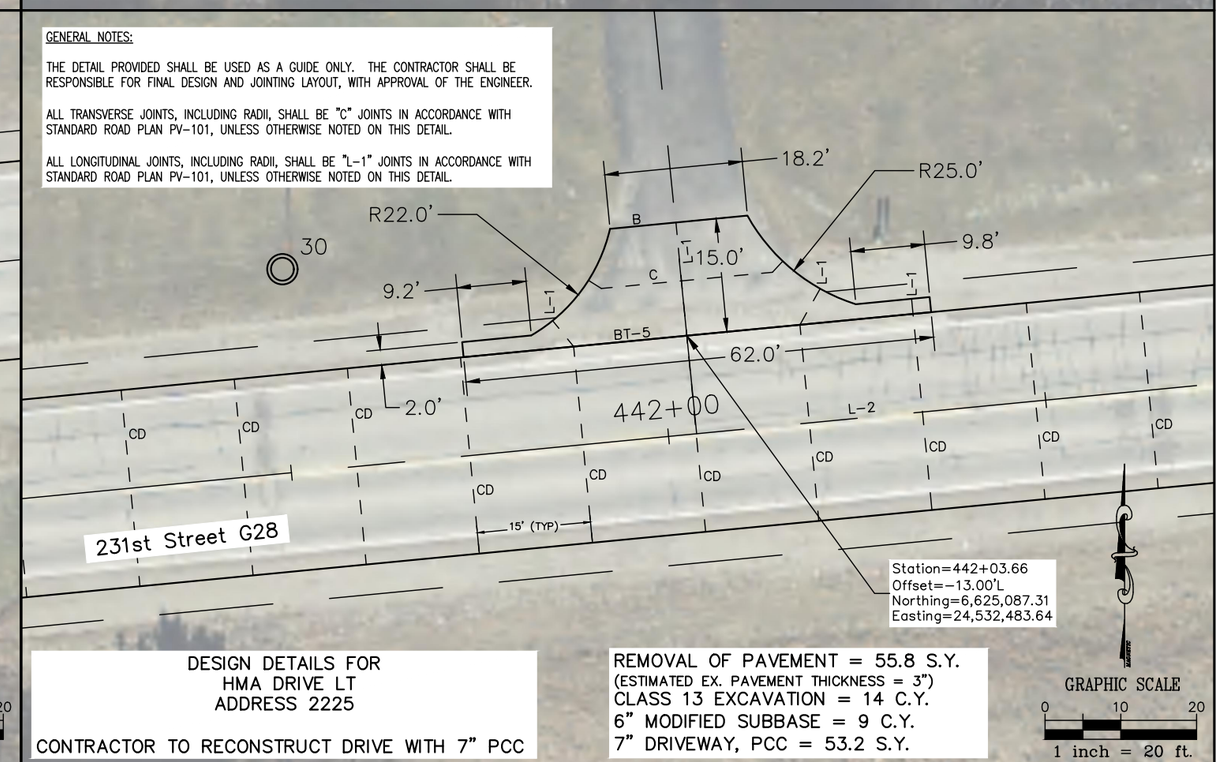
CONTRACTOR TO RECONSTRUCT DRIVE WITH 7" PCC

GENERAL NOTES:

THE DETAIL PROVIDED SHALL BE USED AS A GUIDE ONLY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FINAL DESIGN AND JOINTING LAYOUT, WITH APPROVAL OF THE ENGINEER.

ALL TRANSVERSE JOINTS, INCLUDING RADII, SHALL BE "C" JOINTS IN ACCORDANCE WITH STANDARD ROAD PLAN PV-101, UNLESS OTHERWISE NOTED ON THIS DETAIL.

ALL LONGITUDINAL JOINTS, INCLUDING RADII, SHALL BE "L-1" JOINTS IN ACCORDANCE WITH STANDARD ROAD PLAN PV-101, UNLESS OTHERWISE NOTED ON THIS DETAIL.



REMOVAL OF PAVEMENT = 55.8 S.Y.
(ESTIMATED EX. PAVEMENT THICKNESS = 3")
CLASS 13 EXCAVATION = 14 C.Y.
6" MODIFIED SUBBASE = 9 C.Y.
7" DRIVEWAY, PCC = 53.2 S.Y.

DESIGN DETAILS FOR
HMA DRIVE LT
ADDRESS 2225

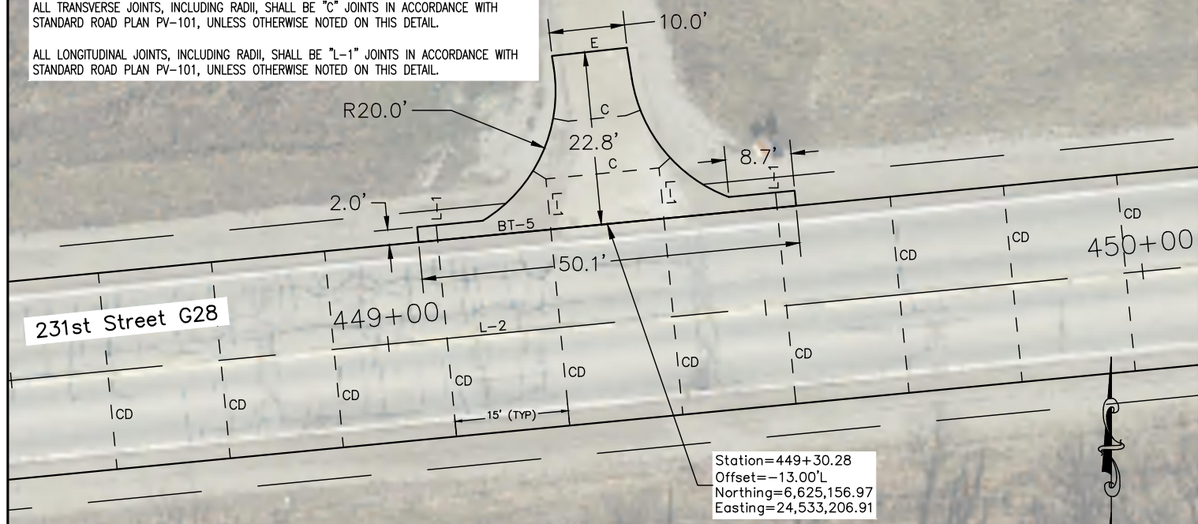
CONTRACTOR TO RECONSTRUCT DRIVE WITH 7" PCC

GENERAL NOTES:

THE DETAIL PROVIDED SHALL BE USED AS A GUIDE ONLY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FINAL DESIGN AND JOINTING LAYOUT, WITH APPROVAL OF THE ENGINEER.

ALL TRANSVERSE JOINTS, INCLUDING RADII, SHALL BE "C" JOINTS IN ACCORDANCE WITH STANDARD ROAD PLAN PV-101, UNLESS OTHERWISE NOTED ON THIS DETAIL.

ALL LONGITUDINAL JOINTS, INCLUDING RADII, SHALL BE "L-1" JOINTS IN ACCORDANCE WITH STANDARD ROAD PLAN PV-101, UNLESS OTHERWISE NOTED ON THIS DETAIL.



DESIGN DETAILS FOR
PCC DRIVE LT
TIMBER RIDGE

CONTRACTOR TO RECONSTRUCT DRIVE WITH 7" PCC

REMOVAL OF PAVEMENT = 33.8 S.Y.
(ESTIMATED EX. PAVEMENT THICKNESS = 4")
CLASS 13 EXCAVATION = 13 C.Y.
6" MODIFIED SUBBASE = 8 C.Y.
7" DRIVEWAY, PCC = 47.2 S.Y.

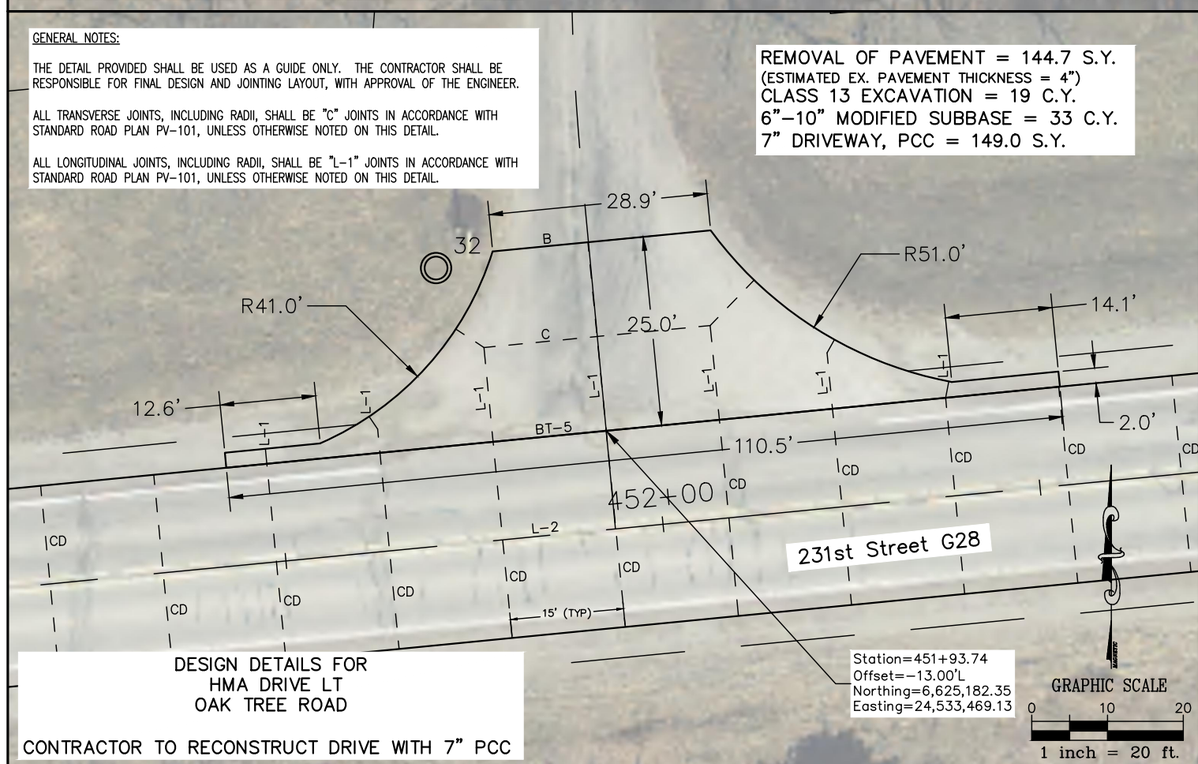
GENERAL NOTES:

THE DETAIL PROVIDED SHALL BE USED AS A GUIDE ONLY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FINAL DESIGN AND JOINTING LAYOUT, WITH APPROVAL OF THE ENGINEER.

ALL TRANSVERSE JOINTS, INCLUDING RADII, SHALL BE "C" JOINTS IN ACCORDANCE WITH STANDARD ROAD PLAN PV-101, UNLESS OTHERWISE NOTED ON THIS DETAIL.

ALL LONGITUDINAL JOINTS, INCLUDING RADII, SHALL BE "L-1" JOINTS IN ACCORDANCE WITH STANDARD ROAD PLAN PV-101, UNLESS OTHERWISE NOTED ON THIS DETAIL.

REMOVAL OF PAVEMENT = 144.7 S.Y.
(ESTIMATED EX. PAVEMENT THICKNESS = 4")
CLASS 13 EXCAVATION = 19 C.Y.
6"-10" MODIFIED SUBBASE = 33 C.Y.
7" DRIVEWAY, PCC = 149.0 S.Y.



DESIGN DETAILS FOR
HMA DRIVE LT
OAK TREE ROAD

CONTRACTOR TO RECONSTRUCT DRIVE WITH 7" PCC

GENERAL NOTES:

THE DETAIL PROVIDED SHALL BE USED AS A GUIDE ONLY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FINAL DESIGN AND JOINTING LAYOUT, WITH APPROVAL OF THE ENGINEER.

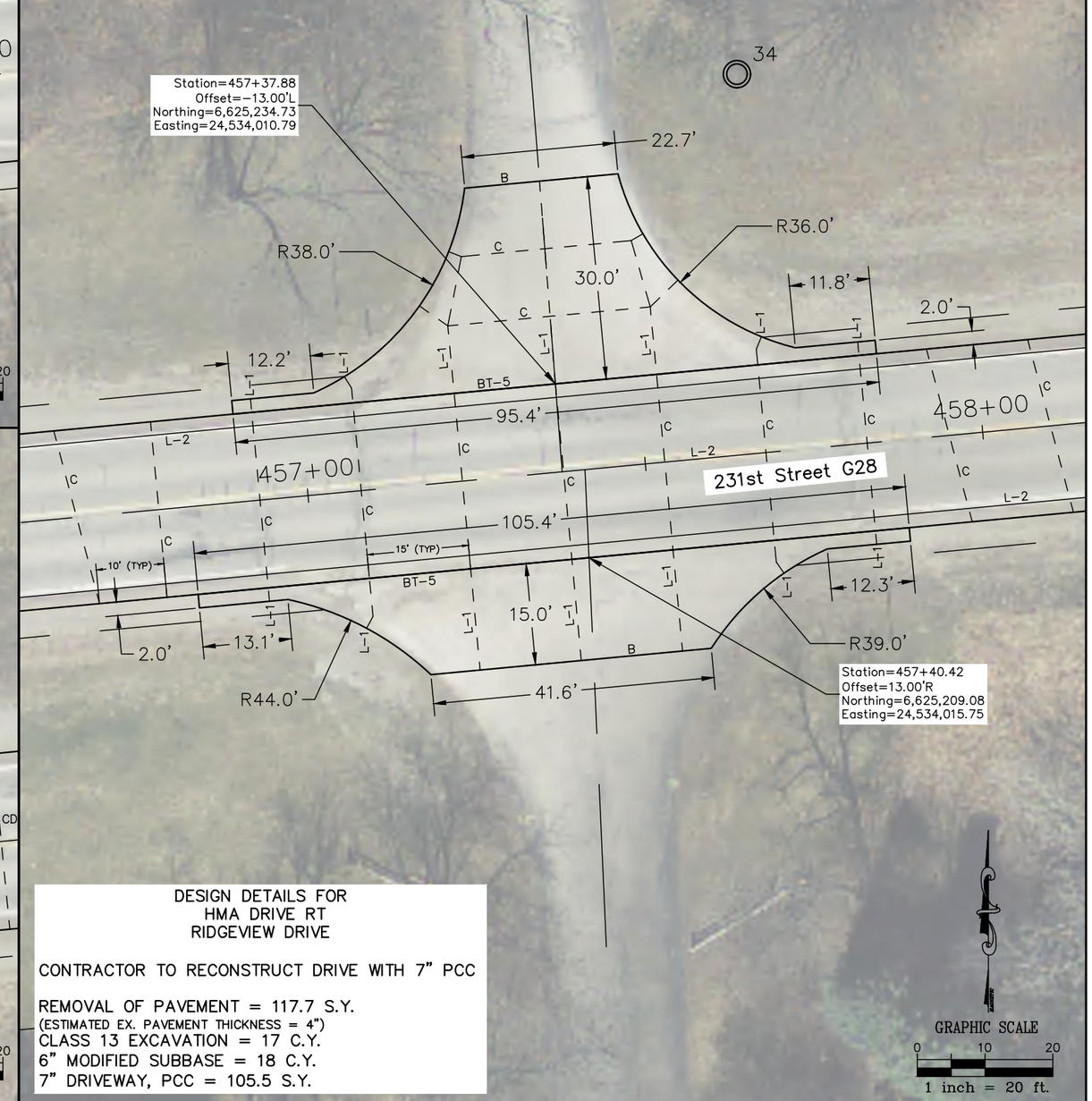
ALL TRANSVERSE JOINTS, INCLUDING RADII, SHALL BE "C" JOINTS IN ACCORDANCE WITH STANDARD ROAD PLAN PV-101, UNLESS OTHERWISE NOTED ON THIS DETAIL.

ALL LONGITUDINAL JOINTS, INCLUDING RADII, SHALL BE "L-1" JOINTS IN ACCORDANCE WITH STANDARD ROAD PLAN PV-101, UNLESS OTHERWISE NOTED ON THIS DETAIL.

DESIGN DETAILS FOR
HMA DRIVE LT
N. HILLTOP DRIVE

CONTRACTOR TO RECONSTRUCT DRIVE WITH 7" PCC

REMOVAL OF PAVEMENT = 133.8 S.Y.
(ESTIMATED EX. PAVEMENT THICKNESS = 4")
CLASS 13 EXCAVATION = 18 C.Y.
6" MODIFIED SUBBASE = 24 C.Y.
7" DRIVEWAY, PCC = 139.8 S.Y.



DESIGN DETAILS FOR
HMA DRIVE RT
RIDGEVIEW DRIVE

CONTRACTOR TO RECONSTRUCT DRIVE WITH 7" PCC

REMOVAL OF PAVEMENT = 117.7 S.Y.
(ESTIMATED EX. PAVEMENT THICKNESS = 4")
CLASS 13 EXCAVATION = 17 C.Y.
6" MODIFIED SUBBASE = 18 C.Y.
7" DRIVEWAY, PCC = 105.5 S.Y.

DESIGN DETAILS FOR
HMA INTERSECTION FILLET LT
KINCAID AVENUE

CONTRACTOR TO CONSTRUCT NEW RETURN WITH 7" PCC

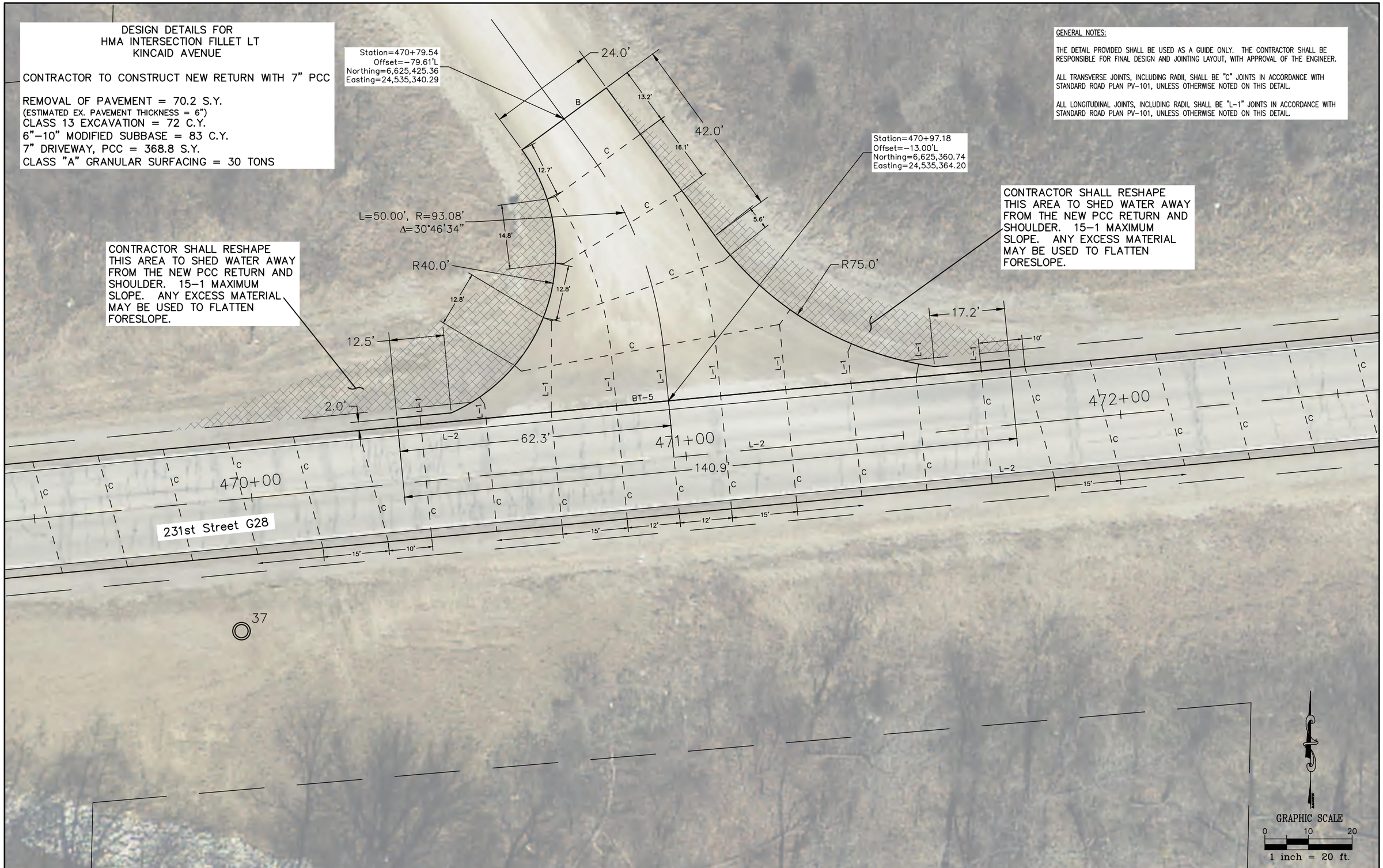
REMOVAL OF PAVEMENT = 70.2 S.Y.
(ESTIMATED EX. PAVEMENT THICKNESS = 6")
CLASS 13 EXCAVATION = 72 C.Y.
6"–10" MODIFIED SUBBASE = 83 C.Y.
7" DRIVEWAY, PCC = 368.8 S.Y.
CLASS "A" GRANULAR SURFACING = 30 TONS

GENERAL NOTES:

THE DETAIL PROVIDED SHALL BE USED AS A GUIDE ONLY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FINAL DESIGN AND JOINTING LAYOUT, WITH APPROVAL OF THE ENGINEER.

ALL TRANSVERSE JOINTS, INCLUDING RADII, SHALL BE "C" JOINTS IN ACCORDANCE WITH STANDARD ROAD PLAN PV-101, UNLESS OTHERWISE NOTED ON THIS DETAIL.

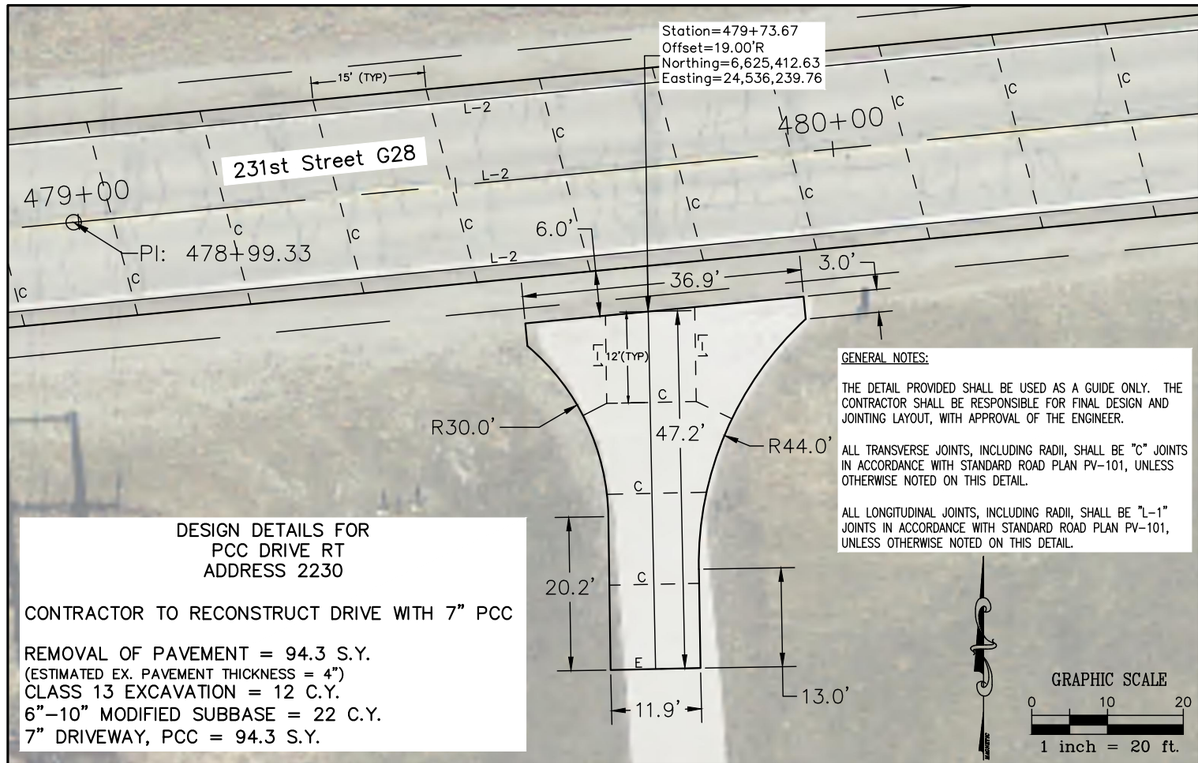
ALL LONGITUDINAL JOINTS, INCLUDING RADII, SHALL BE "L-1" JOINTS IN ACCORDANCE WITH STANDARD ROAD PLAN PV-101, UNLESS OTHERWISE NOTED ON THIS DETAIL.



CONTRACTOR SHALL RESHAPE THIS AREA TO SHED WATER AWAY FROM THE NEW PCC RETURN AND SHOULDER. 15–1 MAXIMUM SLOPE. ANY EXCESS MATERIAL MAY BE USED TO FLATTEN FORESLOPE.

CONTRACTOR SHALL RESHAPE THIS AREA TO SHED WATER AWAY FROM THE NEW PCC RETURN AND SHOULDER. 15–1 MAXIMUM SLOPE. ANY EXCESS MATERIAL MAY BE USED TO FLATTEN FORESLOPE.

FILE NO.	.	ENGLISH	DESIGN TEAM	WHITE\MICHAEL\HORESOWSKY	MUSCATINE COUNTY	PROJECT NUMBER	STBG-SWAP-C070(62)--FG-70	SHEET NUMBER	L5	REVISED	.



DESIGN DETAILS FOR
PCC DRIVE RT
ADDRESS 2230

CONTRACTOR TO RECONSTRUCT DRIVE WITH 7" PCC

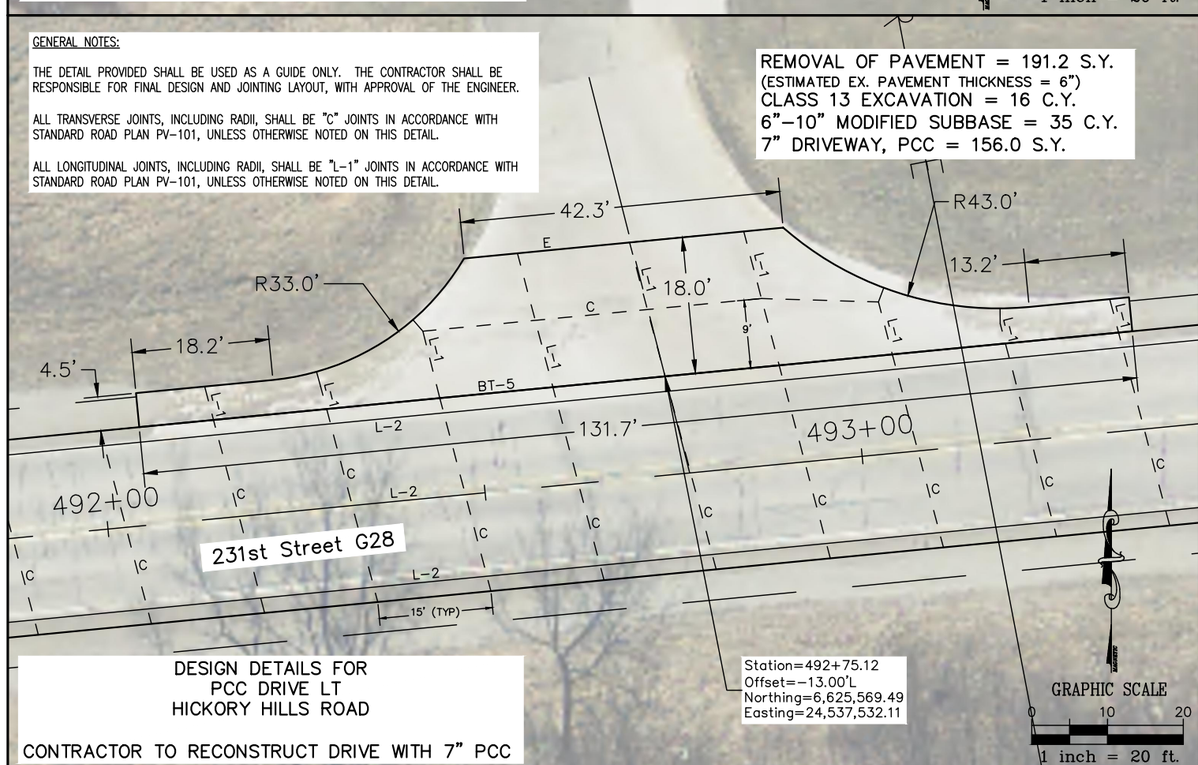
REMOVAL OF PAVEMENT = 94.3 S.Y.
(ESTIMATED EX. PAVEMENT THICKNESS = 4")
CLASS 13 EXCAVATION = 12 C.Y.
6"-10" MODIFIED SUBBASE = 22 C.Y.
7" DRIVEWAY, PCC = 94.3 S.Y.

GENERAL NOTES:

THE DETAIL PROVIDED SHALL BE USED AS A GUIDE ONLY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FINAL DESIGN AND JOINTING LAYOUT, WITH APPROVAL OF THE ENGINEER.

ALL TRANSVERSE JOINTS, INCLUDING RADII, SHALL BE "C" JOINTS IN ACCORDANCE WITH STANDARD ROAD PLAN PV-101, UNLESS OTHERWISE NOTED ON THIS DETAIL.

ALL LONGITUDINAL JOINTS, INCLUDING RADII, SHALL BE "L-1" JOINTS IN ACCORDANCE WITH STANDARD ROAD PLAN PV-101, UNLESS OTHERWISE NOTED ON THIS DETAIL.



GENERAL NOTES:

THE DETAIL PROVIDED SHALL BE USED AS A GUIDE ONLY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FINAL DESIGN AND JOINTING LAYOUT, WITH APPROVAL OF THE ENGINEER.

ALL TRANSVERSE JOINTS, INCLUDING RADII, SHALL BE "C" JOINTS IN ACCORDANCE WITH STANDARD ROAD PLAN PV-101, UNLESS OTHERWISE NOTED ON THIS DETAIL.

ALL LONGITUDINAL JOINTS, INCLUDING RADII, SHALL BE "L-1" JOINTS IN ACCORDANCE WITH STANDARD ROAD PLAN PV-101, UNLESS OTHERWISE NOTED ON THIS DETAIL.

REMOVAL OF PAVEMENT = 191.2 S.Y.
(ESTIMATED EX. PAVEMENT THICKNESS = 6")
CLASS 13 EXCAVATION = 16 C.Y.
6"-10" MODIFIED SUBBASE = 35 C.Y.
7" DRIVEWAY, PCC = 156.0 S.Y.

DESIGN DETAILS FOR
PCC DRIVE LT
HICKORY HILLS ROAD

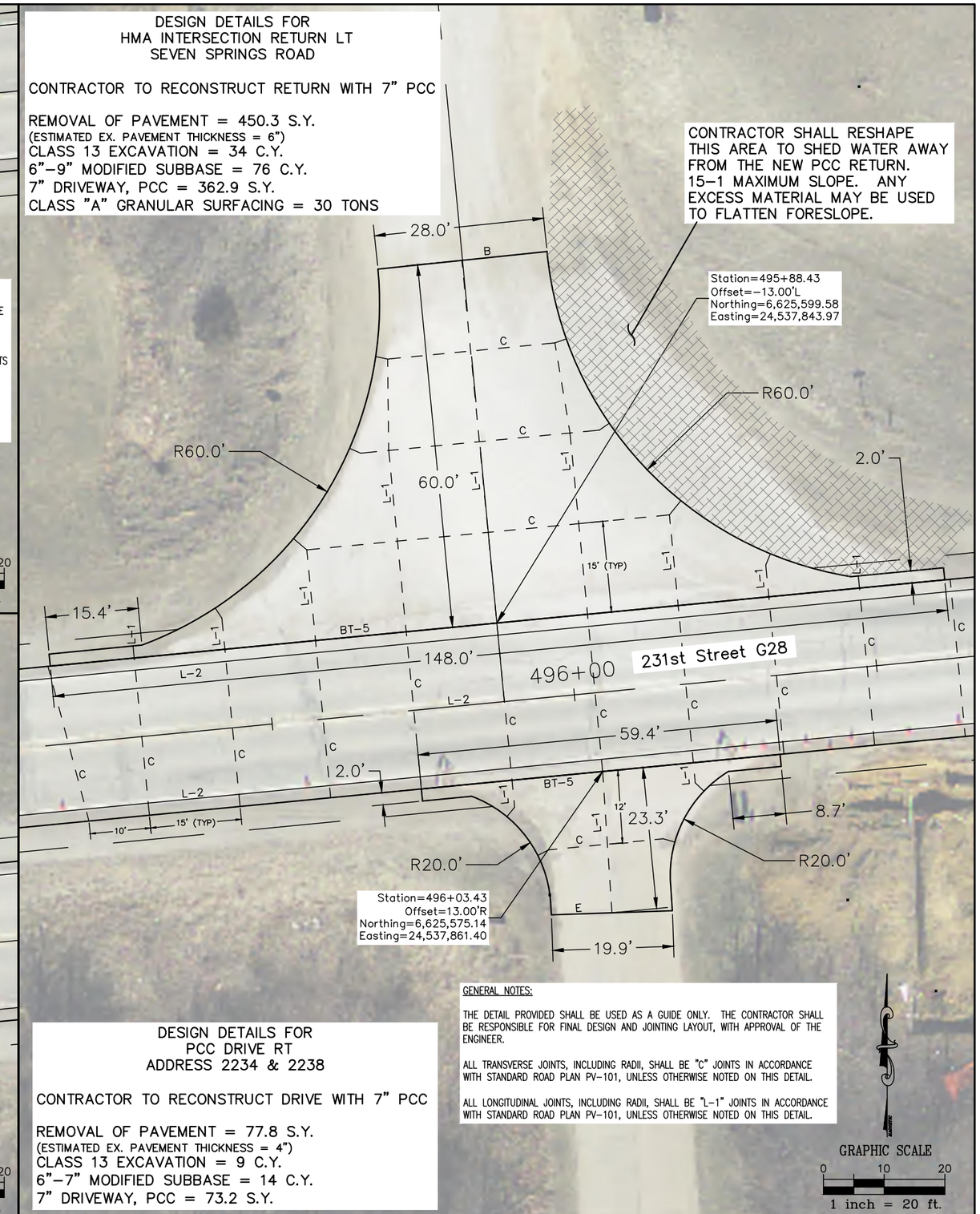
CONTRACTOR TO RECONSTRUCT DRIVE WITH 7" PCC

DESIGN DETAILS FOR
HMA INTERSECTION RETURN LT
SEVEN SPRINGS ROAD

CONTRACTOR TO RECONSTRUCT RETURN WITH 7" PCC

REMOVAL OF PAVEMENT = 450.3 S.Y.
(ESTIMATED EX. PAVEMENT THICKNESS = 6")
CLASS 13 EXCAVATION = 34 C.Y.
6"-9" MODIFIED SUBBASE = 76 C.Y.
7" DRIVEWAY, PCC = 362.9 S.Y.
CLASS "A" GRANULAR SURFACING = 30 TONS

CONTRACTOR SHALL RESHAPE THIS AREA TO SHED WATER AWAY FROM THE NEW PCC RETURN. 15-1 MAXIMUM SLOPE. ANY EXCESS MATERIAL MAY BE USED TO FLATTEN FORESLOPE.



DESIGN DETAILS FOR
PCC DRIVE RT
ADDRESS 2234 & 2238

CONTRACTOR TO RECONSTRUCT DRIVE WITH 7" PCC

REMOVAL OF PAVEMENT = 77.8 S.Y.
(ESTIMATED EX. PAVEMENT THICKNESS = 4")
CLASS 13 EXCAVATION = 9 C.Y.
6"-7" MODIFIED SUBBASE = 14 C.Y.
7" DRIVEWAY, PCC = 73.2 S.Y.

GENERAL NOTES:

THE DETAIL PROVIDED SHALL BE USED AS A GUIDE ONLY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FINAL DESIGN AND JOINTING LAYOUT, WITH APPROVAL OF THE ENGINEER.

ALL TRANSVERSE JOINTS, INCLUDING RADII, SHALL BE "C" JOINTS IN ACCORDANCE WITH STANDARD ROAD PLAN PV-101, UNLESS OTHERWISE NOTED ON THIS DETAIL.

ALL LONGITUDINAL JOINTS, INCLUDING RADII, SHALL BE "L-1" JOINTS IN ACCORDANCE WITH STANDARD ROAD PLAN PV-101, UNLESS OTHERWISE NOTED ON THIS DETAIL.

GENERAL NOTES:

THE DETAIL PROVIDED SHALL BE USED AS A GUIDE ONLY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FINAL DESIGN AND JOINTING LAYOUT, WITH APPROVAL OF THE ENGINEER.

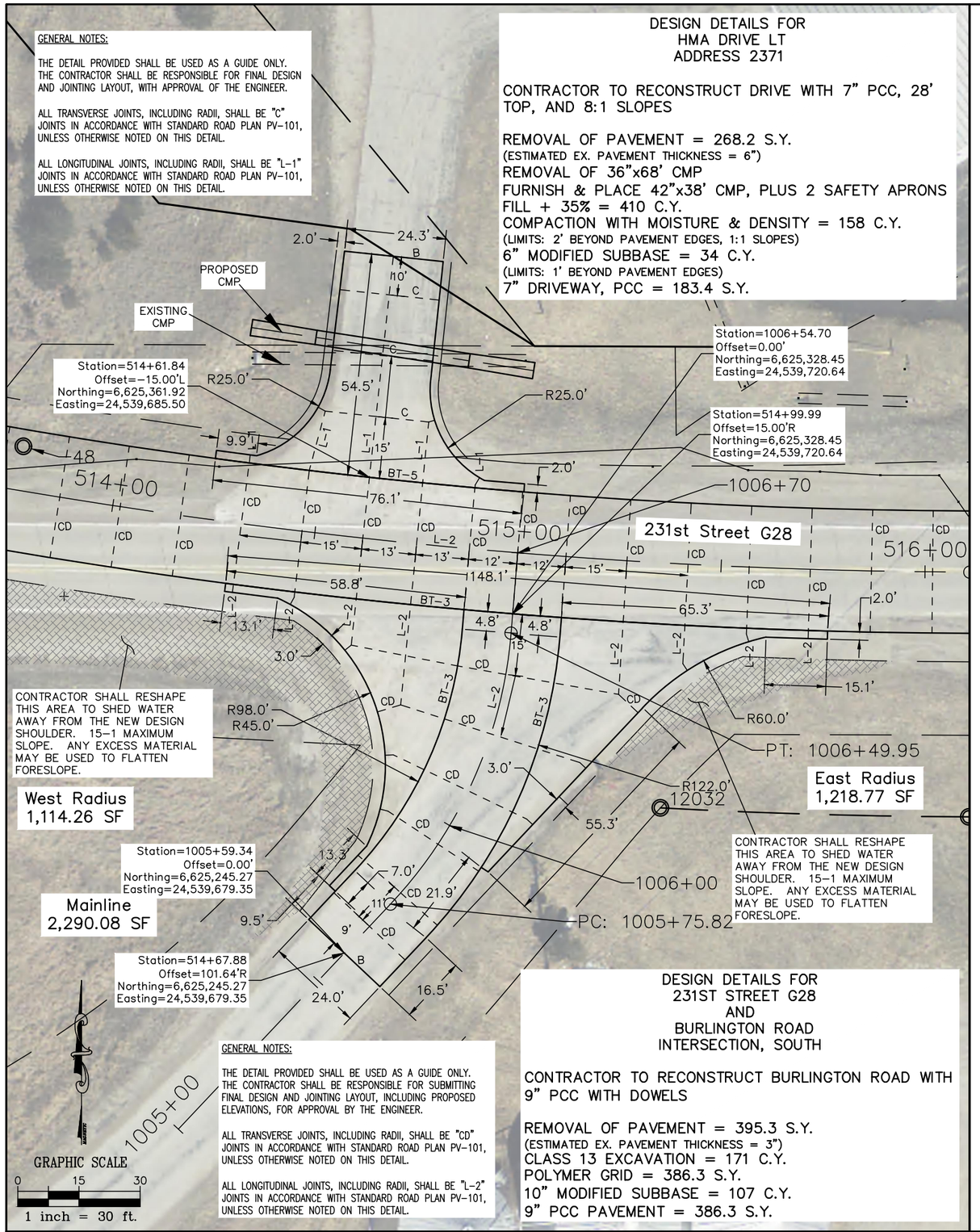
ALL TRANSVERSE JOINTS, INCLUDING RADII, SHALL BE "C" JOINTS IN ACCORDANCE WITH STANDARD ROAD PLAN PV-101, UNLESS OTHERWISE NOTED ON THIS DETAIL.

ALL LONGITUDINAL JOINTS, INCLUDING RADII, SHALL BE "L-1" JOINTS IN ACCORDANCE WITH STANDARD ROAD PLAN PV-101, UNLESS OTHERWISE NOTED ON THIS DETAIL.

DESIGN DETAILS FOR
HMA DRIVE LT
ADDRESS 2371

CONTRACTOR TO RECONSTRUCT DRIVE WITH 7" PCC, 28' TOP, AND 8:1 SLOPES

REMOVAL OF PAVEMENT = 268.2 S.Y.
(ESTIMATED EX. PAVEMENT THICKNESS = 6")
REMOVAL OF 36"x68' CMP
FURNISH & PLACE 42"x38' CMP, PLUS 2 SAFETY APRONS
FILL + 35% = 410 C.Y.
COMPACTION WITH MOISTURE & DENSITY = 158 C.Y.
(LIMITS: 2' BEYOND PAVEMENT EDGES, 1:1 SLOPES)
6" MODIFIED SUBBASE = 34 C.Y.
(LIMITS: 1' BEYOND PAVEMENT EDGES)
7" DRIVEWAY, PCC = 183.4 S.Y.



GENERAL NOTES:

THE DETAIL PROVIDED SHALL BE USED AS A GUIDE ONLY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SUBMITTING FINAL DESIGN AND JOINTING LAYOUT, INCLUDING PROPOSED ELEVATIONS, FOR APPROVAL BY THE ENGINEER.

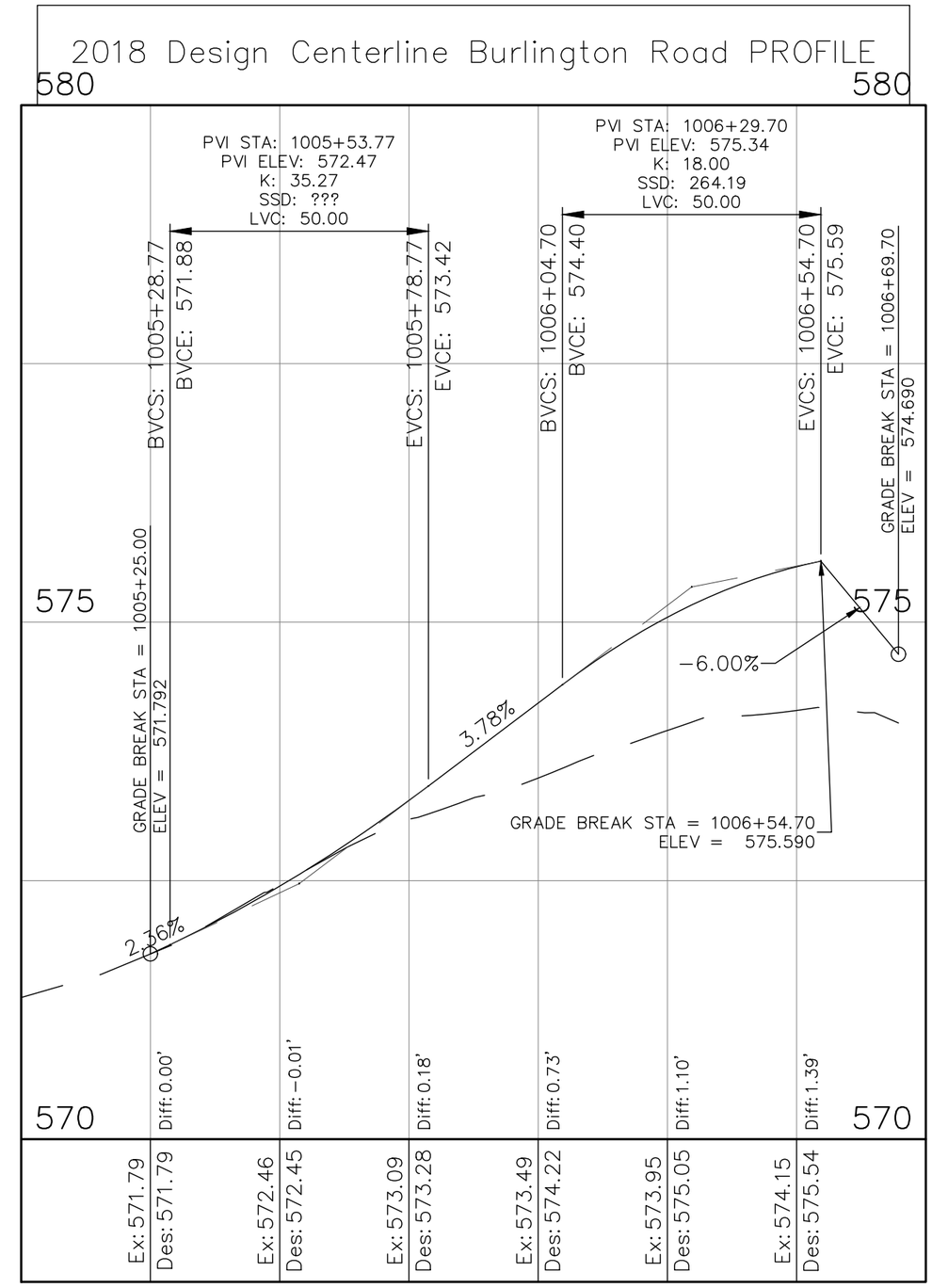
ALL TRANSVERSE JOINTS, INCLUDING RADII, SHALL BE "CD" JOINTS IN ACCORDANCE WITH STANDARD ROAD PLAN PV-101, UNLESS OTHERWISE NOTED ON THIS DETAIL.

ALL LONGITUDINAL JOINTS, INCLUDING RADII, SHALL BE "L-2" JOINTS IN ACCORDANCE WITH STANDARD ROAD PLAN PV-101, UNLESS OTHERWISE NOTED ON THIS DETAIL.

DESIGN DETAILS FOR
231ST STREET G28
AND
BURLINGTON ROAD
INTERSECTION, SOUTH

CONTRACTOR TO RECONSTRUCT BURLINGTON ROAD WITH 9" PCC WITH DOWELS

REMOVAL OF PAVEMENT = 395.3 S.Y.
(ESTIMATED EX. PAVEMENT THICKNESS = 3")
CLASS 13 EXCAVATION = 171 C.Y.
POLYMER GRID = 386.3 S.Y.
10" MODIFIED SUBBASE = 107 C.Y.
9" PCC PAVEMENT = 386.3 S.Y.



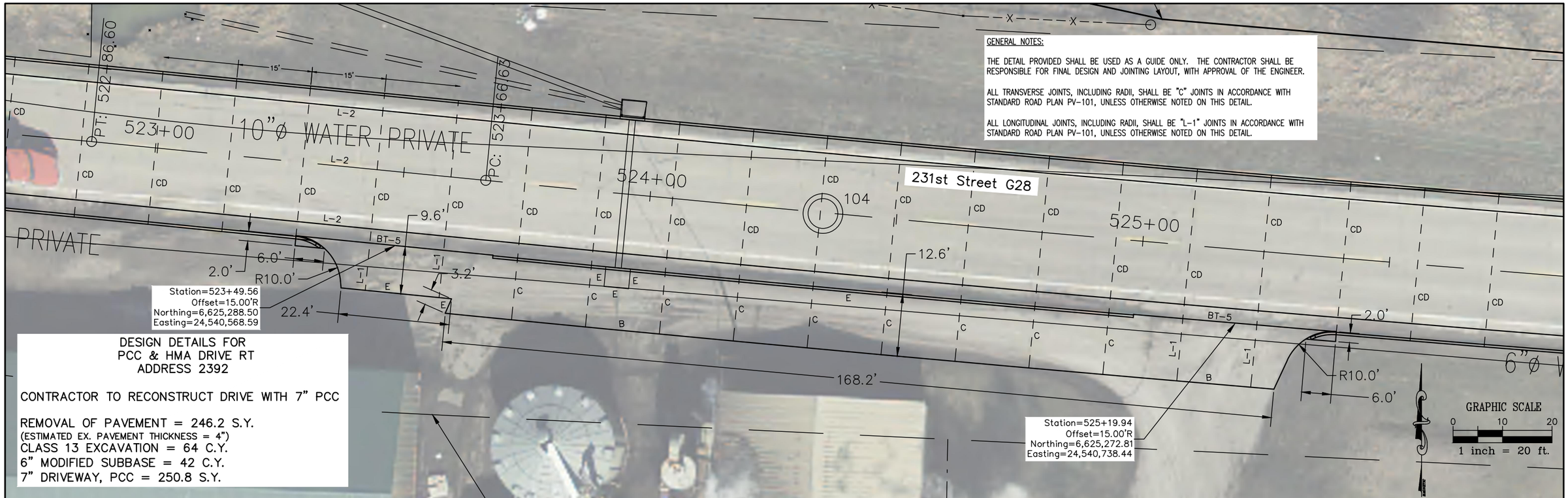
FILE NO.	.	ENGLISH	DESIGN TEAM	WHITE\MICHAEL\HORESOWSKY	MUSCATINE COUNTY	PROJECT NUMBER	STBG-SWAP-C070(62)--FG-70	SHEET NUMBER	L7	REVISED	.

GENERAL NOTES:

THE DETAIL PROVIDED SHALL BE USED AS A GUIDE ONLY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FINAL DESIGN AND JOINTING LAYOUT, WITH APPROVAL OF THE ENGINEER.

ALL TRANSVERSE JOINTS, INCLUDING RADII, SHALL BE "C" JOINTS IN ACCORDANCE WITH STANDARD ROAD PLAN PV-101, UNLESS OTHERWISE NOTED ON THIS DETAIL.

ALL LONGITUDINAL JOINTS, INCLUDING RADII, SHALL BE "L-1" JOINTS IN ACCORDANCE WITH STANDARD ROAD PLAN PV-101, UNLESS OTHERWISE NOTED ON THIS DETAIL.



DESIGN DETAILS FOR
PCC & HMA DRIVE RT
ADDRESS 2392

CONTRACTOR TO RECONSTRUCT DRIVE WITH 7" PCC

REMOVAL OF PAVEMENT = 246.2 S.Y.
(ESTIMATED EX. PAVEMENT THICKNESS = 4")
CLASS 13 EXCAVATION = 64 C.Y.
6" MODIFIED SUBBASE = 42 C.Y.
7" DRIVEWAY, PCC = 250.8 S.Y.

DESIGN DETAILS FOR
PCC DRIVE LT
LUTHERAN DRIVE

CONTRACTOR TO RECONSTRUCT DRIVE WITH 9" PCC

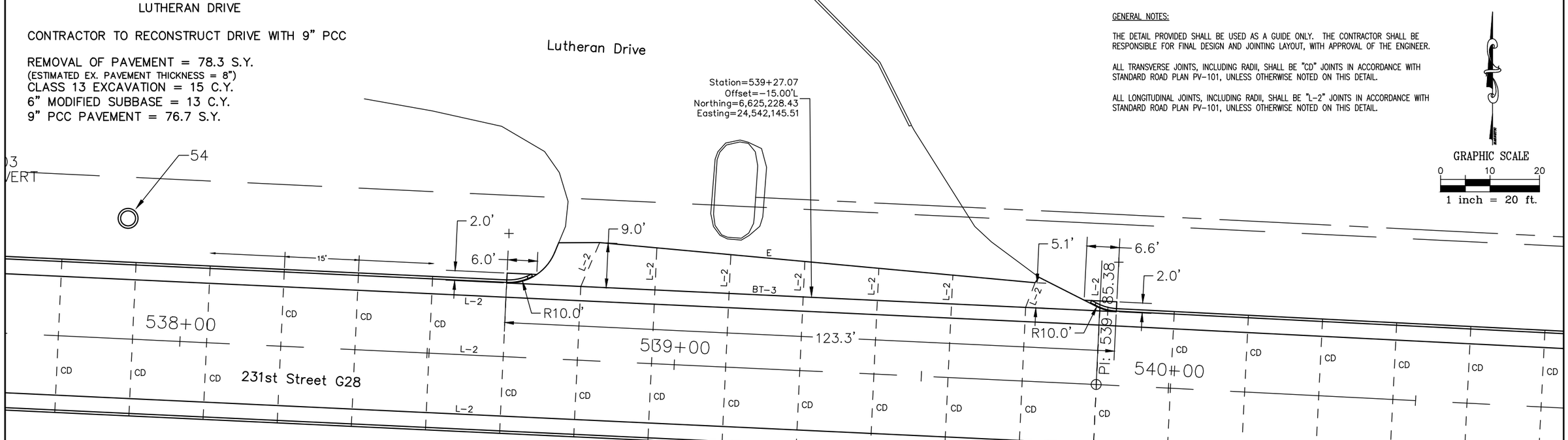
REMOVAL OF PAVEMENT = 78.3 S.Y.
(ESTIMATED EX. PAVEMENT THICKNESS = 8")
CLASS 13 EXCAVATION = 15 C.Y.
6" MODIFIED SUBBASE = 13 C.Y.
9" PCC PAVEMENT = 76.7 S.Y.

GENERAL NOTES:

THE DETAIL PROVIDED SHALL BE USED AS A GUIDE ONLY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FINAL DESIGN AND JOINTING LAYOUT, WITH APPROVAL OF THE ENGINEER.

ALL TRANSVERSE JOINTS, INCLUDING RADII, SHALL BE "CD" JOINTS IN ACCORDANCE WITH STANDARD ROAD PLAN PV-101, UNLESS OTHERWISE NOTED ON THIS DETAIL.

ALL LONGITUDINAL JOINTS, INCLUDING RADII, SHALL BE "L-2" JOINTS IN ACCORDANCE WITH STANDARD ROAD PLAN PV-101, UNLESS OTHERWISE NOTED ON THIS DETAIL.



FILE NO.	.	ENGLISH	DESIGN TEAM	WHITE\MICHAEL\HORESOWSKY	MUSCATINE COUNTY	PROJECT NUMBER	STBG-SWAP-C070(62)--FG-70	SHEET NUMBER	L8	REVISED	.

STORM SEWER

(1) Diameter or equivalent diameter
* Bid Item
** For SW-545

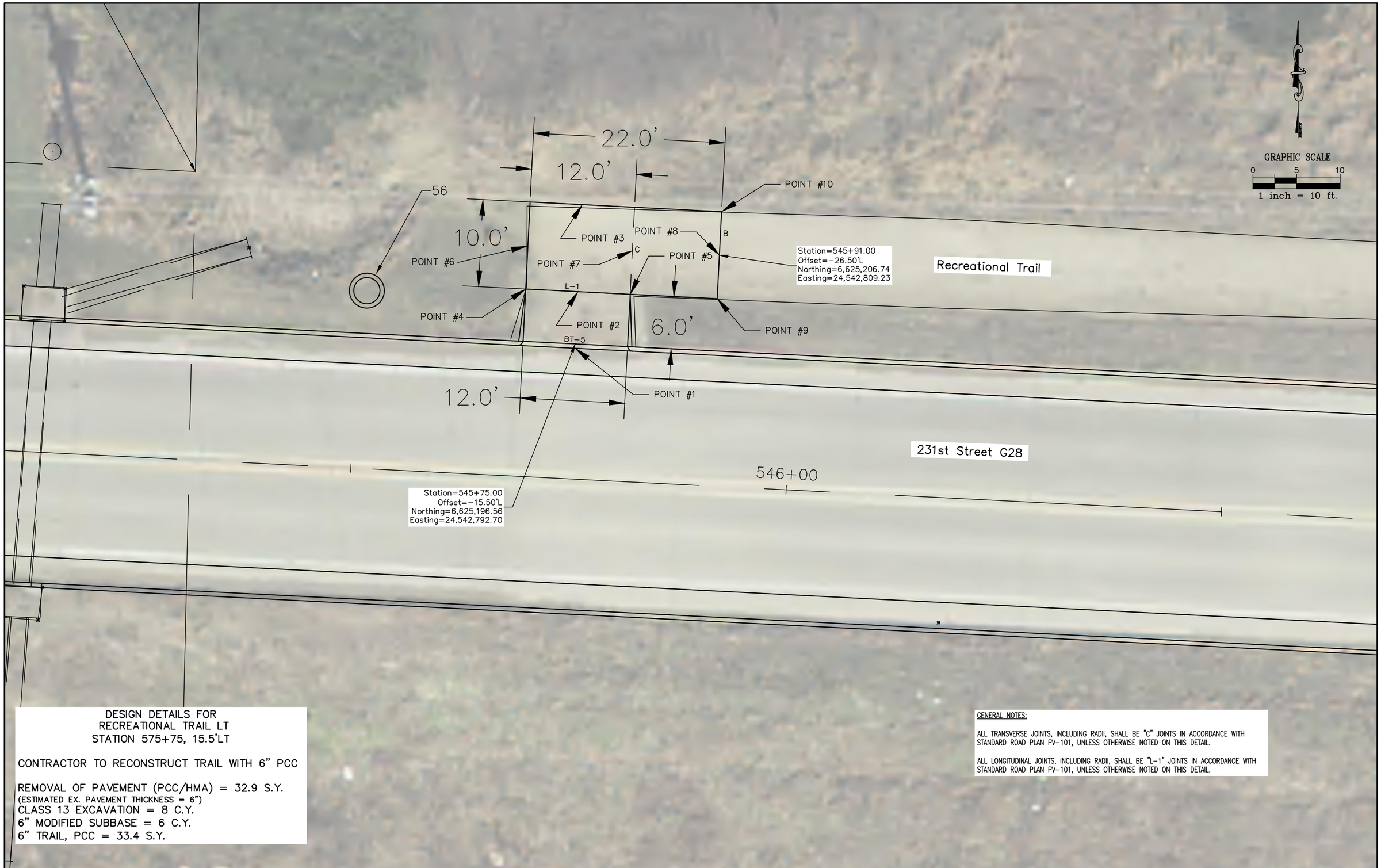
INTAKES AND UTILITY ACCESSES

No.	Location Station and Offset	*Type or Standard Road Plan	Form Grade Elev.	Bottom Well Elev.	Extension Length** FT	Notes
1	523+94.96, 17'LT	SW-507	568.7	565.1		
2	523+94.96, 17'RT	SW-507	568.7	565.6		
3	532+33.79, 17'LT	SW-507	559.96	556.68		F&P TOP ONLY
4	532+94.79, 17'LT	SW-507	560.07	554.07		F&P TOP ONLY
5	532+94.79, 17'RT	SW-507	560.07	553.6		F&P TOP ONLY
6	545+13.86, 17'LT	SW-507	560.6	555.44		F&P TOP ONLY
7	545+13.86, 17'RT	SW-507	560.6	552.8		F&P TOP ONLY

PIPES

Design Length, Slope, and Flowlines are calculated from inside wall to inside wall along CL of pipe. An additional 2 ft length is added to each side of the Design Length to account for estimated length to center of structures.

Line Number	Intake/ Utility Access No. From	To	Class 'D'	Pipe Size (1) IN	Bid* Length FT	Design Length FT	Slope %	Connected Pipe Joint (DR-121) Type	Flow Lines Inlet Elevation	Outlet Elevation	Other Elevation	Pipe Profile Sheet No.	Notes
1	EOA	1	2000	15	96	94.0	0.521	2	565.6	565.07		D4	F&P 1 APRON
2	1	2	3000	15	34	30.0	1.471	2	566.1	565.6		D4	
3	5	EOA	2000	24	10	10.0	0.7	2	553.5	553.39		D5	REMOVE/RELAY APRON
4	7	EOA	2000	24	8	8.0	9.375	2	549.97	548.65		D6	REMOVE/RELAY APRON



DESIGN DETAILS FOR
RECREATIONAL TRAIL LT
STATION 575+75, 15.5'LT

CONTRACTOR TO RECONSTRUCT TRAIL WITH 6" PCC

REMOVAL OF PAVEMENT (PCC/HMA) = 32.9 S.Y.
(ESTIMATED EX. PAVEMENT THICKNESS = 6")
CLASS 13 EXCAVATION = 8 C.Y.
6" MODIFIED SUBBASE = 6 C.Y.
6" TRAIL, PCC = 33.4 S.Y.

GENERAL NOTES:

ALL TRANSVERSE JOINTS, INCLUDING RADII, SHALL BE "C" JOINTS IN ACCORDANCE WITH STANDARD ROAD PLAN PV-101, UNLESS OTHERWISE NOTED ON THIS DETAIL.

ALL LONGITUDINAL JOINTS, INCLUDING RADII, SHALL BE "L-1" JOINTS IN ACCORDANCE WITH STANDARD ROAD PLAN PV-101, UNLESS OTHERWISE NOTED ON THIS DETAIL.

FILE NO.	.	ENGLISH	DESIGN TEAM	WHITE\MICHAEL\HORESOWSKY	MUSCATINE COUNTY	PROJECT NUMBER	STBG-SWAP-C070(62)--FG-70	SHEET NUMBER	S1	REVISED	.

SIDEWALK COMPLIANCE

See S Sheets

* Does not include curb
(1) Staking required by Contracting Authority per Article 2511.03 of the Standard Specifications.
(2) Refer to tabulation 113-01 for bid quantities.

Point to Point		Sidewalk Designation	_" PCC Sidewalk (2)	Distance* FT	Δ Elevation FT	Slope %	Acceptable Constructed Range Pos. or Neg.	Staking Required on this Quadrant? (1)	Measured Slope %	Initials	Remarks
1	2	Ramp Running Slope	6	6.50	0.50	7.7%	0.5% to 8.3%	Yes			
2	3	Sidewalk Cross Slope	6	10.00	0.15	1.5%	0.5% to 2.0%				
4	5	Ramp Cross Slope	6	12.00	-0.12	-1.0%	0.1% to 2.0%				
6	7	Sidewalk Running Slope	6	12.00	-0.12	-1.0%	0.5% to 5.0%				
7	8	Sidewalk Running Slope	6	10.00	0.15	1.5%	0.5% to 5.0%				
9	10	Match Existing Cross Slope	6	10.00	0.26	2.6%	Match Existing				

FOR INFORMATION ONLY:
VALUES USED TO DETERMINE DESIGNED SLOPES

Point	Station	Offset	Elevation
1	545+75.00	15.00	560.18
2	545+75.00	21.50	560.68
3	545+75.00	31.50	560.83
4	545+69.00	21.50	560.74
5	545+81.00	21.50	560.62
6	545+69.00	26.50	560.82
7	545+81.00	26.50	560.70
8	545+91.00	26.50	560.85
9	545+91.00	21.50	560.72
10	545+91.00	31.50	560.98

Template Quantity Adjustments

Road	Station to Station		Template Quantity Excavation (CY)	Reduction for Topsoil Removal (CY)	Reduction for Pav't Removal (CY)	* Adjusted Excavation (CY)	Template Quantity Fill (CY)	Addition for Treatment Area (CY)	Addition for Topsoil Removal (CY)	Reduction for Granular Shoulder (CY)	Reduction for PCC Overlay (CY)	Adjusted Fill + 35% (CY)	Addition for Earth Shoulder Fill (CY)	Addition for Driveway Fill (CY)	Adjusted Total Fill (CY)	Net Volume (CY)
231st Street G28	342+00.00	417+00.00	274	0	0	274	11589	0	2410	0	6051	10730	1126	0	11856	-11582
231st Street G28	417+00.00	454+50.00	5812	0	2292	3520	253	0	0	253	0	0	13	0	13	3507
231st Street G28	454+50.00	497+50.00	59	0	0	59	3934	0	0	0	3913	28	1072	0	1100	-1041
231st Street G28	497+50.00	546+75.00	42553	2172	3161	37220	5970	5747	2524	0	0	19225	3346	1898	24469	12751
		Totals	**48698**	**2172**	**5453**	**41073**	**21746**	**5747**	**4934**	**253**	**9964**	**29984**	**5557**	**1898**	**37439**	**3635**

*** Excavation Bid Item**
37453 Excavation, Class 10
100 Excavation, Class 12
3520 Excavation, Class 13

RAW EARTHWORK VOLUME REPORT (END AREAS INCLUDE PCC OVERLAY)

Aignment: 2018 Design Centerline G28

Station	Cut Area (Sq.Ft.)	Cut Volume (Cu.Yd)	Fill Area (Sq.Ft.)	Fill Volume (Cu.Yd)	Cum. Cut Vol. (Cu.Yd)	Cum. Fill Vol. (Cu.Yd)	Cum. Net Vol. (Cu.Yd)
342+00.00	0	0	26.04	0	0	0	0
342+25.00	0	0	26.5	24.32	0	24.32	-24.32
342+26.00	0	0	26.49	0.98	0	25.3	-25.3
342+50.00	0	0	26.14	23.39	0	48.7	-48.7
342+75.00	0	0	27.3	24.74	0	73.44	-73.44
343+00.00	3.5	1.62	28.95	26.04	1.62	99.49	-97.87
343+25.00	4.45	3.68	34.89	29.55	5.29	129.04	-123.75
343+50.00	0	2.06	39.2	34.3	7.35	163.34	-155.99
343+75.00	0	0	56.36	44.24	7.35	207.58	-200.23
344+00.00	0	0	69.28	58.17	7.35	265.75	-258.4
344+25.00	0	0	73.92	66.3	7.35	332.04	-324.69
344+50.00	0	0	74.02	68.49	7.35	400.53	-393.18
344+75.00	0	0	74.05	68.55	7.35	469.08	-461.73
345+00.00	0	0	69.62	66.52	7.35	535.6	-528.25
345+25.00	0	0	65.81	62.7	7.35	598.3	-590.95
345+50.00	0	0	64.8	60.47	7.35	658.77	-651.41
345+75.00	0	0	62.66	59.01	7.35	717.77	-710.42
346+00.00	0	0	60.44	56.99	7.35	774.77	-767.41
346+25.00	0	0	58.07	54.87	7.35	829.63	-822.28
346+40.00	0	0	56.79	31.91	7.35	861.54	-854.19
346+50.00	0	0	55.99	20.89	7.35	882.43	-875.07
346+75.00	0	0	52.04	50.01	7.35	932.44	-925.09
347+00.00	0	0	46.42	45.58	7.35	978.02	-970.67
347+25.00	0	0	52.47	45.78	7.35	1,023.80	-1,016.45
347+50.00	0	0	50.97	47.89	7.35	1,071.69	-1,064.34
347+75.00	0	0	49.66	46.59	7.35	1,118.28	-1,110.93
348+00.00	0	0	50.25	46.25	7.35	1,164.53	-1,157.18
348+25.00	0	0	51.85	47.27	7.35	1,211.80	-1,204.45
348+50.00	0	0	52.58	48.35	7.35	1,260.15	-1,252.80
348+75.00	0	0	54.26	49.46	7.35	1,309.62	-1,302.27
349+00.00	0	0	58.1	52.02	7.35	1,361.64	-1,354.28
349+25.00	0	0	59.89	54.62	7.35	1,416.26	-1,408.91
349+44.00	0	0	61.3	42.64	7.35	1,458.90	-1,451.55
349+47.38	0	0	61.71	7.7	7.35	1,466.60	-1,459.25
349+50.00	0	0	62.5	6.03	7.35	1,472.62	-1,465.27
349+75.00	0	0	63.76	58.46	7.35	1,531.08	-1,523.73
349+97.33	0	0	61.61	51.84	7.35	1,582.92	-1,575.57
350+00.00	0	0	61.33	6.08	7.35	1,589.00	-1,581.65
350+25.00	8.28	3.83	45.5	49.46	11.19	1,638.46	-1,627.28
350+40.00	7.27	4.32	47.52	25.84	15.51	1,664.30	-1,648.80
350+50.00	5.03	2.28	48.7	17.82	17.79	1,682.12	-1,664.34
350+50.66	4.84	0.12	48.75	1.19	17.91	1,683.32	-1,665.41
350+66.00	0.69	1.57	48.28	27.56	19.48	1,710.88	-1,691.40
350+75.00	0	0.11	47.87	16.02	19.59	1,726.90	-1,707.31
351+00.00	0	0	46.86	43.86	19.59	1,770.76	-1,751.17
351+03.99	0	0	46.71	6.91	19.59	1,777.67	-1,758.08
351+09.33	0	0	46.6	9.22	19.59	1,786.89	-1,767.30
351+25.00	0	0	43.85	26.25	19.59	1,813.15	-1,793.56
351+50.00	0	0	42.6	40.02	19.59	1,853.17	-1,833.58
351+57.33	0.03	0	39.27	11.11	19.6	1,864.28	-1,844.69
351+75.00	0	0.01	45.79	27.84	19.61	1,892.12	-1,872.51
352+00.00	0	0	54.37	46.37	19.61	1,938.49	-1,918.89
352+25.00	0	0	63.63	54.63	19.61	1,993.12	-1,973.51
352+50.00	0	0	67.91	60.9	19.61	2,054.02	-2,034.41
352+66.00	0	0	67.98	40.26	19.61	2,094.28	-2,074.68
352+75.00	0	0	67.79	22.63	19.61	2,116.91	-2,097.30
353+00.00	0	0	67.76	62.75	19.61	2,179.66	-2,160.06

RAW EARTHWORK VOLUME REPORT (END AREAS INCLUDE PCC OVERLAY)

Aignment: 2018 Design Centerline G28

Station	Cut Area (Sq.Ft.)	Cut Volume (Cu.Yd)	Fill Area (Sq.Ft.)	Fill Volume (Cu.Yd)	Cum. Cut Vol. (Cu.Yd)	Cum. Fill Vol. (Cu.Yd)	Cum. Net Vol. (Cu.Yd)
353+25.00	0	0	66.32	62.08	19.61	2,241.74	-2,222.13
353+50.00	7.09	3.28	38.02	48.31	22.89	2,290.05	-2,267.16
353+75.00	13.33	9.46	38.76	35.55	32.35	2,325.60	-2,293.25
354+00.00	0	6.17	66.63	48.79	38.52	2,374.39	-2,335.87
354+25.00	0	0	72.27	64.3	38.52	2,438.69	-2,400.17
354+50.00	0	0	78.79	69.94	38.52	2,508.63	-2,470.11
354+75.00	0	0	76.26	71.78	38.52	2,580.41	-2,541.89
355+00.00	0	0	75.35	70.19	38.52	2,650.60	-2,612.08
355+25.00	0	0	73.13	68.74	38.52	2,719.34	-2,680.82
355+50.00	0	0	72.47	67.41	38.52	2,786.74	-2,748.22
355+75.00	0	0	69.22	65.6	38.52	2,852.34	-2,813.82
356+00.00	0	0	66.77	62.96	38.52	2,915.30	-2,876.78
356+25.00	0	0	65.72	61.34	38.52	2,976.64	-2,938.12
356+26.36	0	0	65.83	3.32	38.52	2,979.96	-2,941.44
356+50.00	0	0	67.41	58.32	38.52	3,038.28	-2,999.76
356+75.00	0	0	66.47	61.98	38.52	3,100.26	-3,061.74
357+00.00	0	0	63.01	59.94	38.52	3,160.20	-3,121.69
357+25.00	0	0	66.04	59.75	38.52	3,219.95	-3,181.43
357+50.00	0	0	68.1	62.1	38.52	3,282.06	-3,243.54
357+75.00	0	0	69.24	63.59	38.52	3,345.64	-3,307.12
358+00.00	0	0	68.59	63.81	38.52	3,409.46	-3,370.94
358+25.00	0	0	66.44	62.51	38.52	3,471.97	-3,433.45
358+50.00	0	0	67.55	62.03	38.52	3,534.00	-3,495.48
358+75.00	0	0	62.99	60.43	38.52	3,594.43	-3,555.91
359+00.00	0	0	58.67	56.32	38.52	3,650.75	-3,612.23
359+25.00	0	0	55.68	52.94	38.52	3,703.69	-3,665.17
359+50.00	0	0	53.76	50.67	38.52	3,754.36	-3,715.84
359+75.00	0.08	0.04	50.38	48.21	38.56	3,802.57	-3,764.01
360+00.00	0.23	0.15	45.16	44.23	38.7	3,846.80	-3,808.10
360+25.00	0.12	0.16	41.15	39.96	38.87	3,886.76	-3,847.89
360+50.00	0	0.06	38.24	36.76	38.92	3,923.51	-3,884.59
360+75.00	0	0	35.38	34.08	38.92	3,957.60	-3,918.68
360+95.40	0.09	0.03	32.25	25.55	38.96	3,983.15	-3,944.19
361+00.00	0.13	0.02	35.01	5.73	38.97	3,988.88	-3,949.91
361+25.00	0.09	0.1	37.74	33.68	39.08	4,022.56	-3,983.49
361+28.00	0.07	0.01	38.2	4.22	39.09	4,026.78	-3,987.70
361+43.40	0.01	0.02	40.46	22.44	39.11	4,049.22	-4,010.11
361+48.74	0	0	41.19	8.07	39.11	4,057.29	-4,018.18
361+50.00	0	0	41.35	1.93	39.11	4,059.22	-4,020.11
361+75.00	0.05	0.02	41.37	38.29	39.13	4,097.51	-4,058.38
362+00.00	1.45	0.69	38.3	36.88	39.83	4,134.39	-4,094.57
362+02.07	0.99	0.09	38.33	2.94	39.92	4,137.33	-4,097.41
362+25.00	0	0.42	35.39	31.3	40.34	4,168.63	-4,128.29
362+50.00	0.04	0.02	32.08	31.24	40.36	4,199.87	-4,159.52
362+55.40	0.02	0.01	31.81	6.39	40.36	4,206.26	-4,165.90
362+75.00	0	0.01	31.17	22.86	40.37	4,229.12	-4,188.75
363+00.00	0	0	30.11	28.37	40.37	4,257.49	-4,217.12
363+08.73	0	0	29.76	9.68	40.37	4,267.17	-4,226.80
363+25.00	0	0	29.39	17.82	40.37	4,284.99	-4,244.62
363+50.00	0	0	27.74	26.45	40.37	4,311.44	-4,271.07
363+75.00	7.44	3.44	18.42	21.37	43.81	4,332.81	-4,288.99
364+00.00	8.08	7.18	16.67	16.25	51	4,349.05	-4,298.06
364+01.64	8.15	0.49	16.55	1.01	51.49	4,350.06	-4,298.57
364+25.00	7.56	6.8	16.28	14.2	58.29	4,364.26	-4,305.97
364+50.00	5.8	6.18	16.35	15.11	64.47	4,379.37	-4,314.90
364+75.00	4.05	4.56	17.45	15.65	69.03	4,395.01	-4,325.98
365+00.00	2.06	2.83	18.75	16.76	71.86	4,411.77	-4,339.91

RAW EARTHWORK VOLUME REPORT (END AREAS INCLUDE PCC OVERLAY)

Aignment: 2018 Design Centerline G28

Station	Cut Area (Sq.Ft.)	Cut Volume (Cu.Yd)	Fill Area (Sq.Ft.)	Fill Volume (Cu.Yd)	Cum. Cut Vol. (Cu.Yd)	Cum. Fill Vol. (Cu.Yd)	Cum. Net Vol. (Cu.Yd)
365+25.00	2.68	2.2	19.63	17.77	74.05	4,429.54	-4,355.48
365+50.00	2.74	2.51	20.03	18.36	76.56	4,447.90	-4,371.34
365+75.00	9.49	5.66	19.8	18.44	82.22	4,466.34	-4,384.12
366+00.00	10.64	9.32	18.82	17.88	91.54	4,484.22	-4,392.68
366+25.00	0	4.93	28.53	21.92	96.47	4,506.14	-4,409.67
366+50.00	0.07	0.03	28.7	26.5	96.5	4,532.64	-4,436.14
366+67.23	0	0.02	30.42	18.86	96.53	4,551.50	-4,454.98
366+67.23	0	0	30.42	0	96.53	4,551.50	-4,454.98
366+75.00	0	0	31.13	8.86	96.53	4,560.36	-4,463.83
367+00.00	0.19	0.09	26.48	26.67	96.61	4,587.03	-4,490.41
367+20.56	0	0.07	34.31	23.15	96.69	4,610.18	-4,513.49
367+25.00	0	0	35.78	5.76	96.69	4,615.93	-4,519.25
367+50.00	0	0	41.51	35.78	96.69	4,651.72	-4,555.03
367+73.90	0	0	45.57	38.54	96.69	4,690.25	-4,593.57
367+75.00	0	0	45.54	1.86	96.69	4,692.11	-4,595.43
367+88.00	0	0	45.17	21.84	96.69	4,713.95	-4,617.26
368+00.00	0	0	44.82	20	96.69	4,733.94	-4,637.26
368+25.00	0	0	44.08	41.16	96.69	4,775.10	-4,678.41
368+27.23	0	0	43.74	3.63	96.69	4,778.73	-4,682.04
368+32.56	0.03	0	42.67	8.53	96.69	4,787.26	-4,690.57
368+50.00	0	0.01	42.79	27.59	96.7	4,814.86	-4,718.16
368+75.00	0	0	41.77	39.15	96.7	4,854.00	-4,757.30
368+80.56	0	0	37.74	8.19	96.7	4,862.20	-4,765.50
369+00.00	0	0	39.02	27.63	96.7	4,889.83	-4,793.12
369+25.00	0	0	42.27	37.63	96.7	4,927.46	-4,830.76
369+50.00	0	0	43.15	39.55	96.7	4,967.01	-4,870.30
369+75.00	0	0	45.62	41.1	96.7	5,008.10	-4,911.40
370+00.00	0	0	46.2	42.51	96.7	5,050.61	-4,953.91
370+25.00	0	0	47.07	43.18	96.7	5,093.79	-4,997.09
370+50.00	0	0	49.46	44.69	96.7	5,138.48	-5,041.78
370+75.00	0.33	0.15	50.35	46.21	96.85	5,184.69	-5,087.83
371+00.00	0.28	0.28	48.8	45.9	97.13	5,230.59	-5,133.46
371+25.00	0	0.13	46.73	44.22	97.26	5,274.81	-5,177.55
371+50.00	19.3	8.94	32.64	36.74	106.2	5,311.56	-5,205.36
371+75.00	26.76	21.33	33.86	30.78	127.52	5,342.34	-5,214.81
372+00.00	26.16	24.5	36.21	32.44	152.02	5,374.78	-5,222.76
372+25.00	0.37	12.28	52.35	41	164.3	5,415.78	-5,251.48
372+50.00	0	0.17	60.65	52.31	164.47	5,468.09	-5,303.62
372+75.00	0	0	70.98	60.94	164.47	5,529.03	-5,364.56
373+00.00	0.21	0.1	74.71	67.45	164.57	5,596.48	-5,431.91
373+25.00	0	0.1	81.68	72.4	164.67	5,668.88	-5,504.22
373+50.00	1.9	0.88	88.18	78.64	165.55	5,747.52	-5,581.97
373+75.00	6.2	3.75	84.57	79.98	169.29	5,827.49	-5,658.20
374+00.00	7.76	6.46	76.99	74.8	175.76	5,902.29	-5,726.53
374+25.00	5	5.91	84.8	74.9	181.67	5,977.19	-5,795.52
374+50.00	0	2.32	123.94	96.64	183.98	6,073.83	-5,889.85
374+72.70	0	0	92.93	91.17	183.98	6,165.00	-5,981.02
374+75.00	0	0	93.99	7.96	183.98	6,172.95	-5,988.97
375+00.00	0	0	93.54	86.82	183.98	6,259.77	-6,075.79
375+25.00	0.59	0.27	82.87	81.67	184.25	6,341.44	-6,157.19
375+50.00	1.19	0.82	72	71.7	185.08	6,413.14	-6,228.06
375+75.00	8.66	4.56	62.9	62.46	189.64	6,475.60	-6,285.96
376+00.00	15.76	11.3	66.38	59.85	200.94	6,535.45	-6,334.50
376+25.00	10.19	12.01	75.08	65.49	212.96	6,600.94	-6,387.98
376+50.00	2.93	6.07	79.56	71.6	219.03	6,672.54	-6,453.50
376+75.00	0	1.36	85.89	76.6	220.39	6,749.13	-6,528.75
377+00.00	0	0	76.97	75.4	220.39	6,824.53	-6,604.14

RAW EARTHWORK VOLUME REPORT (END AREAS INCLUDE PCC OVERLAY)

Aignment: 2018 Design Centerline G28

Station	Cut Area (Sq.Ft.)	Cut Volume (Cu.Yd)	Fill Area (Sq.Ft.)	Fill Volume (Cu.Yd)	Cum. Cut Vol. (Cu.Yd)	Cum. Fill Vol. (Cu.Yd)	Cum. Net Vol. (Cu.Yd)
377+25.00	0	0	72.91	69.39	220.39	6,893.92	-6,673.53
377+50.00	0.45	0.21	64.14	63.45	220.6	6,957.36	-6,736.77
377+75.00	0.74	0.55	60.77	57.83	221.15	7,015.19	-6,794.05
378+00.00	0	0.34	58.16	55.06	221.49	7,070.25	-6,848.76
378+25.00	0	0	58.23	53.88	221.49	7,124.13	-6,902.65
378+50.00	0	0	54.98	52.42	221.49	7,176.55	-6,955.06
378+53.00	0	0	54.79	6.1	221.49	7,182.65	-6,961.16
378+75.00	0	0	53.56	44.14	221.49	7,226.79	-7,005.30
379+00.00	0	0	50.61	48.23	221.49	7,275.02	-7,053.53
379+25.00	0	0	51.8	47.41	221.49	7,322.44	-7,100.95
379+50.00	0	0	50.47	47.35	221.49	7,369.78	-7,148.29
379+75.00	0	0	48.15	45.66	221.49	7,415.44	-7,193.95
380+00.00	0	0	50.42	45.64	221.49	7,461.07	-7,239.59
380+25.00	0	0	51.76	47.31	221.49	7,508.38	-7,286.89
380+50.00	0	0	48.85	46.58	221.49	7,554.96	-7,333.47
380+64.84	0	0	48.76	26.82	221.49	7,581.79	-7,360.30
380+75.00	0	0	55.1	19.54	221.49	7,601.33	-7,379.84
381+00.00	0	0	57.57	52.16	221.49	7,653.49	-7,432.01
381+12.84	0	0	60.52	28.08	221.49	7,681.57	-7,460.08
381+18.17	0	0	61.54	12.06	221.49	7,693.63	-7,472.14
381+25.00	0	0	62.53	15.69	221.49	7,709.32	-7,487.83
381+50.00	0	0	55.2	54.5	221.49	7,763.82	-7,542.33
381+71.51	0	0	48.07	41.13	221.49	7,804.94	-7,583.45
381+75.00	0.01	0	47.47	6.18	221.49	7,811.13	-7,589.64
382+00.00	0.57	0.27	40.52	40.74	221.76	7,851.86	-7,630.11
382+24.84	1.42	0.91	38.9	36.53	222.67	7,888.40	-7,665.73
382+25.00	1.42	0.01	38.89	0.23	222.68	7,888.63	-7,665.95
382+50.00	0.95	1.1	34.41	33.94	223.77	7,922.57	-7,698.79
382+75.00	1.09	0.94	30.18	29.91	224.72	7,952.47	-7,727.76
382+78.17	1.12	0.13	29.88	3.53	224.85	7,956.00	-7,731.15
382+78.17	1.12	0	29.88	0	224.85	7,956.00	-7,731.16
383+00.00	0.44	0.63	28.8	23.72	225.48	7,979.72	-7,754.24
383+25.00	0	0.21	29.08	26.79	225.69	8,006.52	-7,780.83
383+50.00	5.71	2.64	20.89	23.14	228.33	8,029.65	-7,801.32
383+75.00	4.47	4.71	20.68	19.25	233.04	8,048.90	-7,815.86
384+00.00	3.55	3.71	21.46	19.51	236.75	8,068.41	-7,831.66
384+25.00	2.09	2.61	22.68	20.44	239.36	8,088.85	-7,849.49
384+49.63	0.68	1.26	22.7	20.7	240.63	8,109.55	-7,868.92
384+50.00	0.67	0.01	22.71	0.31	240.64	8,109.86	-7,869.22
384+53.00	0.52	0.07	22.74	2.52	240.7	8,112.39	-7,871.68
384+75.00	0	0.21	22.64	18.49	240.91	8,130.87	-7,889.96
385+00.00	0	0	21.28	20.34	240.91	8,151.21	-7,910.29
385+25.00	0	0	19.81	19.02	240.91	8,170.23	-7,929.32
385+50.00	0	0	18.71	17.83	240.91	8,188.06	-7,947.15
385+75.00	0	0	17.79	16.9	240.91	8,204.96	-7,964.04
386+00.00	0	0	16.93	16.07	240.91	8,221.03	-7,980.12
386+25.00	0	0	16.67	15.56	240.91	8,236.59	-7,995.68
386+50.00	0	0	16.78	15.49	240.91	8,252.08	-8,011.16
386+75.00	0	0	17.93	16.07	240.91	8,268.15	-8,027.23
387+00.00	0	0	19.44	17.3	240.91	8,285.45	-8,044.53
387+25.00	0	0	20.35	18.42	240.91	8,303.87	-8,062.96
387+50.00	0	0	21.18	19.23	240.91	8,323.10	-8,082.18
387+75.00	0	0	21.61	19.81	240.91	8,342.91	-8,102.00
388+00.00	0	0	22.03	20.2	240.91	8,363.11	-8,122.20
388+25.00	0	0	21.77	20.28	240.91	8,383.39	-8,142.47
388+50.00	0	0	21.6	20.08	240.91	8,403.47	-8,162.55
388+75.00	0	0	21.06	19.75	240.91	8,423.22	-8,182.30

RAW EARTHWORK VOLUME REPORT (END AREAS INCLUDE PCC OVERLAY)

Aignment: 2018 Design Centerline G28

Station	Cut Area (Sq.Ft.)	Cut Volume (Cu.Yd)	Fill Area (Sq.Ft.)	Fill Volume (Cu.Yd)	Cum. Cut Vol. (Cu.Yd)	Cum. Fill Vol. (Cu.Yd)	Cum. Net Vol. (Cu.Yd)
389+00.00	0	0	20.36	19.18	240.91	8,442.40	-8,201.48
389+25.00	0	0	18.99	18.22	240.91	8,460.62	-8,219.70
389+50.00	0	0	17.61	16.94	240.91	8,477.56	-8,236.65
389+75.00	0	0	16.5	15.79	240.91	8,493.35	-8,252.43
390+00.00	0	0	15.41	14.77	240.91	8,508.12	-8,267.21
390+25.00	0	0	16.35	14.7	240.91	8,522.83	-8,281.91
390+50.00	0	0	17.11	15.49	240.91	8,538.32	-8,297.40
390+75.00	0	0	17.83	16.18	240.91	8,554.49	-8,313.58
391+00.00	0	0	18.45	16.8	240.91	8,571.29	-8,330.37
391+25.00	0	0	19.61	17.62	240.91	8,588.91	-8,347.99
391+50.00	0	0	20.47	18.55	240.91	8,607.46	-8,366.54
391+75.00	0	0	20.85	19.13	240.91	8,626.59	-8,385.67
392+00.00	0	0	21.02	19.39	240.91	8,645.97	-8,405.06
392+25.00	0	0	21.12	19.51	240.91	8,665.48	-8,424.57
392+50.00	0	0	20.44	19.24	240.91	8,684.72	-8,443.81
392+75.00	0	0	19.02	18.27	240.91	8,702.99	-8,462.08
393+00.00	0	0	19.23	17.71	240.91	8,720.70	-8,479.79
393+25.00	0	0	20.55	18.42	240.91	8,739.12	-8,498.20
393+50.00	0	0	20.31	18.92	240.91	8,758.03	-8,517.12
393+75.00	0	0	19.11	18.25	240.91	8,776.28	-8,535.37
394+00.00	0	0	17.96	17.16	240.91	8,793.44	-8,552.53
394+25.00	0	0	16.89	16.13	240.91	8,809.57	-8,568.66
394+50.00	0	0	16.69	15.54	240.91	8,825.12	-8,584.20
394+75.00	0	0	16.87	15.54	240.91	8,840.65	-8,599.74
395+00.00	0	0	16.64	15.51	240.91	8,856.17	-8,615.25
395+25.00	0	0	16.31	15.25	240.91	8,871.42	-8,630.51
395+50.00	0	0	17.08	15.46	240.91	8,886.88	-8,645.97
395+75.00	0	0	18.13	16.3	240.91	8,903.18	-8,662.26
396+00.00	0	0	19.81	17.56	240.91	8,920.74	-8,679.83
396+25.00	0	0	21.32	19.04	240.91	8,939.78	-8,698.87
396+50.00	0	0	21.36	19.76	240.91	8,959.54	-8,718.63
396+75.00	0	0	21.02	19.62	240.91	8,979.16	-8,738.25
397+00.00	0	0	19.05	18.55	240.91	8,997.71	-8,756.80
397+25.00	0	0	17.29	16.82	240.91	9,014.54	-8,773.62
397+50.00	0	0	16.19	15.5	240.91	9,030.04	-8,789.12
397+75.00	0	0	16.27	15.03	240.91	9,045.06	-8,804.15
398+00.00	0	0	19.01	16.34	240.91	9,061.40	-8,820.48
398+25.00	0	0	21.02	18.53	240.91	9,079.93	-8,839.02
398+50.00	0	0	22.1	19.96	240.91	9,099.90	-8,858.98
398+75.00	0	0	22.92	20.84	240.91	9,120.74	-8,879.83
399+00.00	0	0	23.45	21.47	240.91	9,142.21	-8,901.29
399+25.00	0	0	24.19	22.06	240.91	9,164.26	-8,923.35
399+50.00	0	0	25.4	22.96	240.91	9,187.22	-8,946.31
399+75.00	0	0	26.61	24.08	240.91	9,211.30	-8,970.39
400+00.00	0	0	27.9	25.23	240.91	9,236.54	-8,995.62
400+05.76	0	0	28.07	5.97	240.91	9,242.51	-9,001.59
400+25.00	0	0	28.55	20.18	240.91	9,262.68	-9,021.77
400+50.00	0	0	28.41	26.37	240.91	9,289.05	-9,048.14
400+75.00	0	0	28.18	26.2	240.91	9,315.25	-9,074.34
401+00.00	0	0	27.74	25.89	240.91	9,341.14	-9,100.23
401+25.00	0	0	27.03	25.36	240.91	9,366.50	-9,125.58
401+50.00	0	0	24.35	23.79	240.91	9,390.28	-9,149.37
401+75.00	0	0	21.92	21.42	240.91	9,411.70	-9,170.79
402+00.00	0	0	20.33	19.56	240.91	9,431.26	-9,190.35
402+25.00	0	0	20.15	18.74	240.91	9,450.00	-9,209.09
402+50.00	0	0	20.84	18.98	240.91	9,468.98	-9,228.07
402+75.00	0	0	21.11	19.42	240.91	9,488.40	-9,247.48

RAW EARTHWORK VOLUME REPORT (END AREAS INCLUDE PCC OVERLAY)

Aignment: 2018 Design Centerline G28

Station	Cut Area (Sq.Ft.)	Cut Volume (Cu.Yd)	Fill Area (Sq.Ft.)	Fill Volume (Cu.Yd)	Cum. Cut Vol. (Cu.Yd)	Cum. Fill Vol. (Cu.Yd)	Cum. Net Vol. (Cu.Yd)
403+00.00	0	0	21.25	19.61	240.91	9,508.01	-9,267.10
403+25.00	0	0	20.38	19.28	240.91	9,527.29	-9,286.37
403+50.00	0	0	19.33	18.39	240.91	9,545.67	-9,304.76
403+75.00	0	0	17.99	17.28	240.91	9,562.95	-9,322.04
404+00.00	0	0	16.75	16.08	240.91	9,579.04	-9,338.12
404+25.00	0	0	17.37	15.8	240.91	9,594.83	-9,353.92
404+50.00	0	0	17.91	16.34	240.91	9,611.17	-9,370.26
404+75.00	2.5	1.16	17.27	16.29	242.07	9,627.46	-9,385.39
405+00.00	8.53	5.11	16.57	15.67	247.18	9,643.13	-9,395.95
405+25.00	12.17	9.58	15.92	15.04	256.76	9,658.17	-9,401.40
405+50.00	6.2	8.51	19.16	16.24	265.27	9,674.41	-9,409.14
405+60.34	0	1.19	25.55	8.56	266.46	9,682.97	-9,416.51
405+75.00	0	0	29.16	14.85	266.46	9,697.82	-9,431.36
405+84.00	0	0	28.9	9.68	266.46	9,707.49	-9,441.04
406+00.00	0	0	28.3	16.95	266.46	9,724.44	-9,457.99
406+25.00	0	0	38.33	30.85	266.46	9,755.29	-9,488.83
406+37.33	0	0	37.65	17.35	266.46	9,772.64	-9,506.18
406+50.00	0	0	37.1	17.54	266.46	9,790.18	-9,523.72
406+75.00	0	0	36.56	34.1	266.46	9,824.28	-9,557.82
406+90.66	0	0	38.48	21.76	266.46	9,846.04	-9,579.59
407+00.00	0	0	38.84	13.37	266.46	9,859.42	-9,592.96
407+25.00	0	0	40.53	36.74	266.46	9,896.16	-9,629.70
407+43.99	0	0	41.73	28.93	266.46	9,925.09	-9,658.63
407+49.33	0.01	0	42.38	8.32	266.46	9,933.41	-9,666.95
407+50.00	0.01	0	42.48	1.05	266.46	9,934.46	-9,668.00
407+75.00	0	0	44.89	40.45	266.46	9,974.90	-9,708.44
407+97.33	0	0	43.23	36.44	266.46	10,011.34	-9,744.88
408+00.00	0	0	43.77	4.3	266.46	10,015.64	-9,749.18
408+25.00	0	0	48.39	42.67	266.46	10,058.31	-9,791.85
408+50.00	0	0	52.08	46.52	266.46	10,104.83	-9,838.36
408+75.00	0	0	51.85	48.11	266.46	10,152.94	-9,886.48
409+00.00	0	0	52.54	48.33	266.46	10,201.27	-9,934.81
409+25.00	0	0	52.79	48.76	266.46	10,250.03	-9,983.57
409+50.00	0	0	55.12	49.96	266.46	10,299.99	-10,033.53
409+75.00	0	0	54.79	50.88	266.46	10,350.87	-10,084.41
410+00.00	0	0	56.02	51.3	266.46	10,402.17	-10,135.71
410+25.00	0.06	0.03	54.59	51.21	266.49	10,453.38	-10,186.89
410+50.00	0	0.03	55.19	50.82	266.52	10,504.20	-10,237.68
410+50.92	0	0	55.31	1.87	266.52	10,506.08	-10,239.55
410+57.00	0	0	55.75	12.51	266.52	10,518.59	-10,252.07
410+75.00	0	0	52.54	36.1	266.52	10,554.69	-10,288.16
410+91.63	0.18	0.06	48.93	31.25	266.58	10,585.93	-10,319.36
411+00.00	0.04	0.03	48.83	15.16	266.61	10,601.09	-10,334.48
411+25.00	0	0.02	55.04	48.09	266.63	10,649.18	-10,382.54
411+50.00	0	0	55.43	51.14	266.63	10,700.32	-10,433.69
411+75.00	0	0	53.61	50.48	266.63	10,750.80	-10,484.17
412+00.00	0	0	54.29	49.96	266.63	10,800.75	-10,534.12
412+25.00	0	0	53.26	49.79	266.63	10,850.55	-10,583.91
412+50.00	0	0	56.25	50.7	266.63	10,901.25	-10,634.61
412+75.00	0	0	55.84	51.9	266.63	10,953.14	-10,686.51
413+00.00	0	0	53.54	50.64	266.63	11,003.78	-10,737.15
413+04.50	0	0	54.33	8.99	266.63	11,012.77	-10,746.14
413+25.00	0	0	58.29	42.75	266.63	11,055.52	-10,788.89
413+50.00	0	0	58.59	54.11	266.63	11,109.64	-10,843.00
413+52.50	0	0	58.67	5.43	266.63	11,115.07	-10,848.43
413+57.84	0.01	0	58.82	11.62	266.63	11,126.68	-10,860.05
413+75.00	0	0	59.5	37.6	266.64	11,164.28	-10,897.65

RAW EARTHWORK VOLUME REPORT (END AREAS INCLUDE PCC OVERLAY)

Aignment: 2018 Design Centerline G28

Station	Cut Area (Sq.Ft.)	Cut Volume (Cu.Yd)	Fill Area (Sq.Ft.)	Fill Volume (Cu.Yd)	Cum. Cut Vol. (Cu.Yd)	Cum. Fill Vol. (Cu.Yd)	Cum. Net Vol. (Cu.Yd)
414+00.00	0	0	59.29	54.99	266.64	11,219.28	-10,952.64
414+11.17	0	0	58.28	24.32	266.64	11,243.60	-10,976.96
414+25.00	0	0	55.38	29.11	266.64	11,272.71	-11,006.07
414+50.00	0	0	49.73	48.67	266.64	11,321.37	-11,054.74
414+64.50	0	0	48.26	26.31	266.64	11,347.69	-11,081.05
414+75.00	0	0	47.07	18.54	266.64	11,366.22	-11,099.58
415+00.00	0	0	36.32	38.6	266.64	11,404.82	-11,138.19
415+17.83	8.41	2.78	30.14	21.94	269.42	11,426.77	-11,157.35
415+25.00	5.46	1.84	29.39	7.9	271.26	11,434.67	-11,163.42
415+50.00	0	2.53	26.87	26.05	273.78	11,460.72	-11,186.93
415+75.00	0.01	0	23.09	23.13	273.79	11,483.84	-11,210.06
416+00.00	0	0	23.17	21.42	273.79	11,505.26	-11,231.47
416+25.00	0	0	23.14	21.44	273.79	11,526.70	-11,252.91
416+50.00	0.08	0.04	22.34	21.06	273.83	11,547.76	-11,273.93
416+75.00	0.16	0.11	20.89	20.01	273.94	11,567.77	-11,293.83
417+00.00	0.72	0.41	25.83	21.63	274.35	11,589.40	-11,315.05
417+00.01	23.57	0	6.83	0.01	274.36	11,589.41	-11,315.05
417+25.00	25.86	22.87	6.59	6.21	297.23	11,595.62	-11,298.39
417+50.00	27.51	24.7	7.2	6.38	321.93	11,602.00	-11,280.07
417+75.00	29.8	26.53	5.95	6.09	348.46	11,608.09	-11,259.63
418+00.00	31.91	28.57	4.25	4.72	377.03	11,612.81	-11,235.78
418+07.00	32.6	8.36	4.07	1.08	385.39	11,613.89	-11,228.50
418+25.00	34.53	22.38	3.88	2.65	407.77	11,616.54	-11,208.77
418+50.00	36.02	32.67	2.85	3.11	440.44	11,619.65	-11,179.21
418+75.00	39.44	34.94	1.73	2.12	475.38	11,621.77	-11,146.40
419+00.00	42	37.71	1.13	1.32	513.08	11,623.09	-11,110.01
419+25.00	44.23	39.92	0.56	0.78	553	11,623.87	-11,070.87
419+50.00	44.73	41.18	0.54	0.51	594.18	11,624.38	-11,030.20
419+75.00	44.78	41.44	0.65	0.55	635.63	11,624.93	-10,989.30
420+00.00	43.41	40.83	1	0.76	676.46	11,625.69	-10,949.24
420+25.00	41.78	39.44	1.59	1.2	715.89	11,626.89	-10,911.00
420+50.00	41.72	38.65	1.64	1.5	754.55	11,628.39	-10,873.84
420+75.00	42.09	38.8	1.91	1.64	793.35	11,630.03	-10,836.68
421+00.00	43.25	39.51	1.45	1.55	832.86	11,631.58	-10,798.72
421+25.00	45.34	41.02	0.62	0.96	873.87	11,632.54	-10,758.66
421+50.00	45.81	42.2	0.41	0.47	916.07	11,633.01	-10,716.94
421+75.00	45.86	42.44	0.44	0.39	958.51	11,633.41	-10,674.90
422+00.00	46.06	42.55	0.26	0.33	1,001.07	11,633.73	-10,632.67
422+25.00	45.42	42.35	0.49	0.35	1,043.41	11,634.08	-10,590.67
422+50.00	45.69	42.18	0.43	0.42	1,085.59	11,634.50	-10,548.91
422+75.00	45.97	42.44	0.57	0.46	1,128.03	11,634.96	-10,506.93
423+00.00	47.55	43.3	0.3	0.4	1,171.33	11,635.37	-10,464.04
423+25.00	49.5	44.93	0.06	0.17	1,216.26	11,635.53	-10,419.28
423+50.00	49.42	45.79	0	0.03	1,262.05	11,635.56	-10,373.51
423+75.00	49.33	45.72	0.04	0.02	1,307.77	11,635.58	-10,327.82
424+00.00	48.9	45.48	0.07	0.05	1,353.25	11,635.64	-10,282.39
424+25.00	48.39	45.04	0.11	0.08	1,398.29	11,635.72	-10,237.43
424+50.00	46.88	44.11	0.29	0.19	1,442.40	11,635.91	-10,193.51
424+75.00	45.42	42.73	0.66	0.44	1,485.13	11,636.35	-10,151.22
425+00.00	44.26	41.52	0.87	0.71	1,526.65	11,637.06	-10,110.41
425+25.00	43.29	40.53	0.92	0.83	1,567.18	11,637.88	-10,070.70
425+50.00	43.99	40.41	0.75	0.77	1,607.59	11,638.66	-10,031.06
425+75.00	43.94	40.71	0.62	0.63	1,648.30	11,639.29	-9,990.99
425+92.00	44.01	27.69	0.82	0.45	1,675.99	11,639.74	-9,963.75
426+00.00	44.23	13.07	0.84	0.25	1,689.06	11,639.99	-9,950.93
426+25.00	43.72	40.72	0.81	0.76	1,729.78	11,640.75	-9,910.97
426+50.00	41.54	39.48	1.18	0.92	1,769.26	11,641.67	-9,872.41

RAW EARTHWORK VOLUME REPORT (END AREAS INCLUDE PCC OVERLAY)

Aignment: 2018 Design Centerline G28

Station	Cut Area (Sq.Ft.)	Cut Volume (Cu.Yd)	Fill Area (Sq.Ft.)	Fill Volume (Cu.Yd)	Cum. Cut Vol. (Cu.Yd)	Cum. Fill Vol. (Cu.Yd)	Cum. Net Vol. (Cu.Yd)
426+75.00	39.92	37.72	1.46	1.22	1,806.97	11,642.89	-9,835.92
427+00.00	38.16	36.15	1.88	1.54	1,843.12	11,644.44	-9,801.31
427+25.00	38.65	35.56	1.79	1.7	1,878.68	11,646.13	-9,767.45
427+50.00	39.98	36.4	1.49	1.52	1,915.09	11,647.65	-9,732.56
427+75.00	42.14	38.02	1.01	1.15	1,953.11	11,648.80	-9,695.70
428+00.00	44.08	39.92	0.62	0.75	1,993.02	11,649.56	-9,656.54
428+25.00	44.91	41.2	0.52	0.53	2,034.22	11,650.08	-9,615.86
428+50.00	44.64	41.46	0.48	0.46	2,075.68	11,650.55	-9,574.87
428+75.00	47.02	42.44	0.69	0.54	2,118.12	11,651.09	-9,532.97
429+00.00	48.61	44.27	0.66	0.63	2,162.39	11,651.71	-9,489.32
429+25.00	50.97	46.1	0.17	0.38	2,208.50	11,652.10	-9,443.60
429+50.00	52.11	47.72	0.03	0.09	2,256.22	11,652.19	-9,395.97
429+75.00	52.33	48.35	0.1	0.06	2,304.57	11,652.24	-9,347.68
429+92.00	51.75	32.76	0.18	0.09	2,337.33	11,652.33	-9,315.00
430+00.00	51.33	15.27	0.23	0.06	2,352.60	11,652.39	-9,299.79
430+25.00	50.68	47.22	0.01	0.11	2,399.83	11,652.51	-9,252.68
430+50.00	49.7	46.47	0	0.01	2,446.30	11,652.51	-9,206.21
430+75.00	49.12	45.75	0	0	2,492.05	11,652.51	-9,160.46
431+00.00	47.34	44.66	0.09	0.04	2,536.71	11,652.55	-9,115.84
431+25.00	45.89	43.16	0.36	0.21	2,579.87	11,652.76	-9,072.89
431+50.00	44.81	41.99	0.74	0.51	2,621.86	11,653.27	-9,031.41
431+75.00	43.99	41.11	1.07	0.84	2,662.97	11,654.11	-8,991.13
432+00.00	43.22	40.38	1.12	1.01	2,703.35	11,655.12	-8,951.77
432+25.00	42.75	39.8	1.14	1.05	2,743.15	11,656.17	-8,913.01
432+50.00	42.77	39.59	1.1	1.04	2,782.74	11,657.20	-8,874.46
432+75.00	42.96	39.69	1.13	1.03	2,822.43	11,658.23	-8,835.80
432+99.32	43.41	38.9	1.09	1	2,861.33	11,659.23	-8,797.90
433+00.00	43.42	1.09	1.09	0.03	2,862.42	11,659.26	-8,796.84
433+25.00	44.57	40.74	0.76	0.86	2,903.16	11,660.12	-8,756.96
433+50.00	45.99	41.93	0.38	0.53	2,945.08	11,660.64	-8,715.56
433+75.00	47.52	43.29	0.09	0.22	2,988.38	11,660.86	-8,672.49
434+00.00	49.18	44.77	0	0.04	3,033.15	11,660.90	-8,627.76
434+25.00	49.73	45.79	0	0	3,078.94	11,660.90	-8,581.96
434+50.00	50	46.17	0	0	3,125.11	11,660.90	-8,535.79
434+75.00	49.59	46.11	0	0	3,171.22	11,660.90	-8,489.68
435+00.00	49.26	45.77	0.04	0.02	3,216.99	11,660.92	-8,443.93
435+25.00	48.77	45.38	0.28	0.15	3,262.37	11,661.07	-8,398.70
435+50.00	48.27	44.93	0.39	0.31	3,307.30	11,661.38	-8,354.08
435+75.00	46.64	43.94	0.16	0.25	3,351.24	11,661.64	-8,310.40
436+00.00	44.63	42.25	0.19	0.16	3,393.49	11,661.80	-8,268.30
436+25.00	42.33	40.26	0.71	0.41	3,433.75	11,662.21	-8,228.46
436+50.00	40.39	38.3	1.11	0.84	3,472.05	11,663.05	-8,191.00
436+75.00	39.61	37.04	1.23	1.08	3,509.09	11,664.14	-8,155.04
437+00.00	39.59	36.67	1.31	1.18	3,545.76	11,665.31	-8,119.55
437+25.00	42.02	37.78	0.93	1.04	3,583.54	11,666.35	-8,082.81
437+50.00	44.07	39.86	0.69	0.75	3,623.40	11,667.10	-8,043.70
437+75.00	45.2	41.33	0.56	0.58	3,664.73	11,667.68	-8,002.95
438+00.00	45.04	41.78	0.64	0.56	3,706.51	11,668.24	-7,961.73
438+25.00	42.72	40.63	1.11	0.81	3,747.14	11,669.05	-7,921.91
438+45.33	40.99	31.51	1.33	0.92	3,778.65	11,669.97	-7,891.32
438+50.00	40.88	7.08	1.36	0.23	3,785.73	11,670.20	-7,884.47
438+75.00	40.58	37.72	1.51	1.33	3,823.44	11,671.53	-7,848.08
439+00.00	40.76	37.66	1.46	1.38	3,861.10	11,672.90	-7,811.80
439+25.00	41.89	38.26	1.16	1.22	3,899.37	11,674.12	-7,774.75
439+50.00	43.5	39.53	1	1	3,938.90	11,675.12	-7,736.22
439+75.00	45.43	41.17	0.53	0.71	3,980.07	11,675.83	-7,695.76
440+00.00	47.84	43.18	0.26	0.37	4,023.25	11,676.20	-7,652.95

RAW EARTHWORK VOLUME REPORT (END AREAS INCLUDE PCC OVERLAY)

Aignment: 2018 Design Centerline G28

Station	Cut Area (Sq.Ft.)	Cut Volume (Cu.Yd)	Fill Area (Sq.Ft.)	Fill Volume (Cu.Yd)	Cum. Cut Vol. (Cu.Yd)	Cum. Fill Vol. (Cu.Yd)	Cum. Net Vol. (Cu.Yd)
440+25.00	50.21	45.39	0.04	0.14	4,068.64	11,676.34	-7,607.70
440+50.00	51.25	46.97	0.21	0.11	4,115.61	11,676.45	-7,560.84
440+75.00	51.45	47.55	0.38	0.27	4,163.16	11,676.72	-7,513.57
441+00.00	49.97	46.95	0.76	0.53	4,210.11	11,677.25	-7,467.14
441+25.00	48.63	45.65	0.98	0.81	4,255.76	11,678.06	-7,422.30
441+50.00	45	43.35	1.16	0.99	4,299.11	11,679.05	-7,379.94
441+75.00	40.87	39.76	2.16	1.54	4,338.86	11,680.59	-7,341.72
442+00.00	39.5	37.21	2.47	2.14	4,376.07	11,682.73	-7,306.66
442+25.00	39.14	36.4	2.35	2.23	4,412.48	11,684.96	-7,272.49
442+50.00	40.34	36.79	2.22	2.12	4,449.27	11,687.08	-7,237.81
442+75.00	41.18	37.74	1.88	1.9	4,487.01	11,688.97	-7,201.96
443+00.00	41.17	38.13	1.59	1.61	4,525.14	11,690.58	-7,165.44
443+25.00	41.39	38.22	1.59	1.47	4,563.36	11,692.06	-7,128.70
443+50.00	41.85	38.54	1.57	1.46	4,601.89	11,693.52	-7,091.62
443+75.00	42.35	38.98	1.38	1.36	4,640.88	11,694.88	-7,054.00
444+00.00	42.87	39.46	1.19	1.19	4,680.33	11,696.07	-7,015.74
444+25.00	42.72	39.63	0.92	0.98	4,719.96	11,697.05	-6,977.09
444+50.00	42.13	39.28	0.95	0.87	4,759.24	11,697.91	-6,938.67
444+53.98	42.03	6.2	0.98	0.14	4,765.44	11,698.05	-6,932.61
444+75.00	41.41	32.48	1.52	0.97	4,797.92	11,699.02	-6,901.10
445+00.00	41.03	38.17	1.72	1.5	4,836.09	11,700.52	-6,864.43
445+25.00	42.5	38.67	1.72	1.59	4,874.76	11,702.11	-6,827.35
445+50.00	43.87	39.99	1.54	1.51	4,914.75	11,703.62	-6,788.87
445+75.00	44.07	40.71	1.03	1.19	4,955.46	11,704.81	-6,749.35
446+00.00	43.87	40.71	0.93	0.91	4,996.17	11,705.72	-6,709.55
446+25.00	42.05	39.78	0.99	0.89	5,035.95	11,706.61	-6,670.66
446+50.00	40.03	38	1.21	1.02	5,073.95	11,707.62	-6,633.68
446+75.00	37.7	35.99	2.08	1.52	5,109.93	11,709.15	-6,599.21
447+00.00	35.53	33.91	2.71	2.22	5,143.84	11,711.36	-6,567.52
447+25.00	33.49	31.96	3.03	2.66	5,175.79	11,714.02	-6,538.23
447+50.00	33.06	30.81	3.37	2.96	5,206.61	11,716.99	-6,510.38
447+75.00	34.53	31.29	3.6	3.23	5,237.90	11,720.21	-6,482.32
448+00.00	35.19	32.28	3.83	3.44	5,270.17	11,723.65	-6,453.48
448+25.00	35.7	32.82	3.72	3.5	5,302.99	11,727.15	-6,424.16
448+50.00	35.97	33.18	3.66	3.42	5,336.17	11,730.57	-6,394.40
448+75.00	36.12	33.37	3.73	3.43	5,369.55	11,734.00	-6,364.45
449+00.00	36.55	33.65	3.78	3.48	5,403.19	11,737.47	-6,334.28
449+25.00	37.47	34.27	3.25	3.26	5,437.47	11,740.73	-6,303.26
449+50.00	38.26	35.06	2.3	2.57	5,472.53	11,743.30	-6,270.78
449+75.00	38.29	35.44	2.47	2.21	5,507.96	11,745.51	-6,237.55
450+00.00	38.31	35.46	2.82	2.45	5,543.43	11,747.96	-6,204.53
450+25.00	38.94	35.77	2.56	2.49	5,579.19	11,750.45	-6,171.25
450+50.00	38.45	35.83	3.03	2.59	5,615.02	11,753.04	-6,138.01
450+75.00	38.6	35.67	3.47	3.01	5,650.70	11,756.05	-6,105.35
450+75.65	38.61	0.93	3.48	0.08	5,651.63	11,756.13	-6,104.50
451+00.00	36.67	33.94	4.45	3.57	5,685.57	11,759.70	-6,074.13
451+25.00	35.38	33.36	4.98	4.36	5,718.93	11,764.07	-6,045.14
451+50.00	34.44	32.32	5.35	4.78	5,751.25	11,768.85	-6,017.60
451+75.00	33.83	31.61	5.21	4.89	5,782.86	11,773.73	-5,990.87
452+00.00	32.47	30.7	5.36	4.89	5,813.56	11,778.63	-5,965.07
452+25.00	31.33	29.54	5.7	5.12	5,843.10	11,783.75	-5,940.65
452+50.00	30.65	28.69	5.44	5.16	5,871.79	11,788.91	-5,917.12
452+75.00	30.77	28.43	5.65	5.13	5,900.22	11,794.05	-5,893.82
453+00.00	29.77	28.03	6.55	5.65	5,928.25	11,799.69	-5,871.44
453+25.00	29.38	27.39	6.57	6.08	5,955.64	11,805.77	-5,850.13
453+50.00	28.35	26.73	8.03	6.76	5,982.37	11,812.53	-5,830.16
453+75.00	28.03	26.1	7.46	7.17	6,008.47	11,819.70	-5,811.23

RAW EARTHWORK VOLUME REPORT (END AREAS INCLUDE PCC OVERLAY)

Aignment: 2018 Design Centerline G28

Station	Cut Area (Sq.Ft.)	Cut Volume (Cu.Yd)	Fill Area (Sq.Ft.)	Fill Volume (Cu.Yd)	Cum. Cut Vol. (Cu.Yd)	Cum. Fill Vol. (Cu.Yd)	Cum. Net Vol. (Cu.Yd)
454+00.00	28.34	26.1	8.62	7.44	6,034.57	11,827.14	-5,792.57
454+25.00	28.28	26.21	7.56	7.49	6,060.78	11,834.63	-5,773.85
454+50.00	25.78	25.03	8.98	7.66	6,085.81	11,842.29	-5,756.47
454+50.01	0.68	0	25.72	0.01	6,085.82	11,842.29	-5,756.48
454+75.00	0.26	0.44	18.32	20.38	6,086.25	11,862.67	-5,776.42
455+00.00	0.01	0.13	18.97	17.26	6,086.38	11,879.93	-5,793.55
455+25.00	0	0.01	19.37	17.75	6,086.38	11,897.69	-5,811.30
455+50.00	0	0	19.54	18.02	6,086.38	11,915.70	-5,829.32
455+75.00	0	0	21.22	18.87	6,086.38	11,934.57	-5,848.19
456+00.00	0	0	23.47	20.69	6,086.38	11,955.27	-5,868.88
456+25.00	0	0	25.13	22.5	6,086.38	11,977.77	-5,891.39
456+49.32	0	0	26.35	23.19	6,086.38	12,000.96	-5,914.58
456+50.00	0	0	26.38	0.66	6,086.38	12,001.62	-5,915.24
456+75.00	0	0	25.29	23.92	6,086.38	12,025.54	-5,939.16
457+00.00	0	0	22.27	22.02	6,086.38	12,047.56	-5,961.17
457+25.00	0	0	19.3	19.24	6,086.38	12,066.80	-5,980.42
457+50.00	0	0	17.31	16.95	6,086.38	12,083.75	-5,997.36
457+75.00	0	0	19.83	17.19	6,086.38	12,100.94	-6,014.55
458+00.00	0	0	21.36	19.07	6,086.38	12,120.01	-6,033.62
458+25.00	0	0	24.22	21.11	6,086.38	12,141.11	-6,054.73
458+50.00	0	0	26.42	23.45	6,086.38	12,164.56	-6,078.18
458+75.00	0	0	25.7	24.13	6,086.38	12,188.69	-6,102.31
459+00.00	0	0	24.15	23.08	6,086.38	12,211.77	-6,125.38
459+25.00	0	0	23.74	22.17	6,086.38	12,233.94	-6,147.55
459+50.00	0	0	22.58	21.44	6,086.38	12,255.38	-6,169.00
459+75.00	0	0	23.86	21.5	6,086.38	12,276.88	-6,190.50
460+00.00	0	0	24.79	22.52	6,086.38	12,299.40	-6,213.02
460+25.00	0	0	24.2	22.68	6,086.38	12,322.08	-6,235.70
460+50.00	0	0	22.97	21.83	6,086.38	12,343.92	-6,257.53
460+75.00	0	0	21.79	20.72	6,086.38	12,364.64	-6,278.25
460+80.00	0	0	21.47	4.01	6,086.38	12,368.64	-6,282.26
461+00.00	0	0	20.2	15.43	6,086.38	12,384.07	-6,297.69
461+25.00	0	0	20.07	18.64	6,086.38	12,402.71	-6,316.33
461+50.00	0	0	19.99	18.55	6,086.38	12,421.26	-6,334.88
461+75.00	0	0	21.6	19.26	6,086.38	12,440.52	-6,354.13
462+00.00	0	0	23.29	20.78	6,086.38	12,461.30	-6,374.91
462+25.00	0	0	23.72	21.76	6,086.38	12,483.06	-6,396.67
462+50.00	0	0	21.95	21.14	6,086.38	12,504.20	-6,417.82
462+75.00	0	0	19.99	19.42	6,086.38	12,523.62	-6,437.24
462+99.33	0	0	18.26	17.23	6,086.38	12,540.85	-6,454.47
463+00.00	0	0	18.21	0.46	6,086.38	12,541.31	-6,454.92
463+25.00	0	0	16.77	16.19	6,086.38	12,557.50	-6,471.11
463+50.00	0	0	17.7	15.96	6,086.38	12,573.46	-6,487.07
463+75.00	0	0	18.88	16.94	6,086.38	12,590.39	-6,504.01
464+00.00	0	0	21.04	18.48	6,086.38	12,608.88	-6,522.49
464+25.00	0	0	23.34	20.55	6,086.38	12,629.42	-6,543.04
464+50.00	0	0	25.98	22.83	6,086.38	12,652.25	-6,565.87
464+75.00	0	0	28.11	25.05	6,086.38	12,677.30	-6,590.91
465+00.00	0	0	28.48	26.2	6,086.38	12,703.50	-6,617.12
465+25.00	0	0	29.6	26.89	6,086.38	12,730.39	-6,644.01
465+50.00	0	0	31.73	28.39	6,086.38	12,758.79	-6,672.40
465+71.50	0	0	31.65	25.23	6,086.38	12,784.02	-6,697.63
465+75.00	0	0	31.1	4.07	6,086.38	12,788.09	-6,701.70
466+00.00	0	0	27.73	27.24	6,086.38	12,815.32	-6,728.94
466+25.00	0	0	25.35	24.57	6,086.38	12,839.90	-6,753.51
466+50.00	0	0	24	22.85	6,086.38	12,862.75	-6,776.36
466+75.00	0	0	23.63	22.05	6,086.38	12,884.80	-6,798.41

RAW EARTHWORK VOLUME REPORT (END AREAS INCLUDE PCC OVERLAY)

Aignment: 2018 Design Centerline G28

Station	Cut Area (Sq.Ft.)	Cut Volume (Cu.Yd)	Fill Area (Sq.Ft.)	Fill Volume (Cu.Yd)	Cum. Cut Vol. (Cu.Yd)	Cum. Fill Vol. (Cu.Yd)	Cum. Net Vol. (Cu.Yd)
467+00.00	0	0	24.37	22.22	6,086.38	12,907.01	-6,820.63
467+25.00	0	0	23.15	22	6,086.38	12,929.01	-6,842.63
467+50.00	0	0	22.65	21.2	6,086.38	12,950.22	-6,863.83
467+75.00	0	0	20.94	20.18	6,086.38	12,970.40	-6,884.01
468+00.00	0	0	20.1	19	6,086.38	12,989.39	-6,903.01
468+25.00	0	0	19.48	18.32	6,086.38	13,007.72	-6,921.33
468+50.00	0	0	20.2	18.37	6,086.38	13,026.09	-6,939.70
468+75.00	0	0	22.86	19.93	6,086.38	13,046.02	-6,959.63
468+99.33	0	0	26.5	22.24	6,086.38	13,068.26	-6,981.87
469+00.00	0	0	26.56	0.66	6,086.38	13,068.91	-6,982.53
469+25.00	0	0	27.64	25.09	6,086.38	13,094.01	-7,007.62
469+50.00	0	0	30.05	26.71	6,086.38	13,120.72	-7,034.33
469+75.00	0	0	29.65	27.64	6,086.38	13,148.35	-7,061.97
470+00.00	0	0	29.85	27.54	6,086.38	13,175.90	-7,089.51
470+25.00	0	0	27.33	26.47	6,086.38	13,202.37	-7,115.98
470+50.00	0	0	24.05	23.79	6,086.38	13,226.15	-7,139.77
470+75.00	0	0	20.62	20.68	6,086.38	13,246.83	-7,160.45
471+00.00	0	0	17.05	17.44	6,086.38	13,264.27	-7,177.89
471+25.00	0	0	15.22	14.94	6,086.38	13,279.22	-7,192.83
471+50.00	0	0	16.27	14.58	6,086.38	13,293.80	-7,207.41
471+75.00	0	0	17.63	15.69	6,086.38	13,309.49	-7,223.10
472+00.00	0	0	18.95	16.93	6,086.38	13,326.42	-7,240.04
472+25.00	0	0	19.92	17.99	6,086.38	13,344.42	-7,258.03
472+50.00	0	0	20.39	18.66	6,086.38	13,363.08	-7,276.69
472+75.00	0	0	21.01	19.16	6,086.38	13,382.24	-7,295.85
473+00.00	0	0	21.18	19.53	6,086.38	13,401.77	-7,315.39
473+25.00	0	0	21.74	19.87	6,086.38	13,421.64	-7,335.26
473+50.00	0	0	22.69	20.57	6,086.38	13,442.21	-7,355.83
473+75.00	0	0	24.68	21.93	6,086.38	13,464.14	-7,377.76
474+00.00	0	0	27.74	24.27	6,086.38	13,488.41	-7,402.03
474+13.70	0	0	29.33	14.48	6,086.38	13,502.89	-7,416.50
474+25.00	0	0	30.46	12.51	6,086.38	13,515.40	-7,429.02
474+50.00	0	0	33.91	29.8	6,086.38	13,545.21	-7,458.82
474+75.00	0	0	34.28	31.57	6,086.38	13,576.78	-7,490.39
475+00.00	0	0	34.6	31.89	6,086.38	13,608.67	-7,522.28
475+25.00	0	0	31	30.37	6,086.38	13,639.04	-7,552.66
475+50.00	0	0	28.11	27.36	6,086.38	13,666.40	-7,580.02
475+75.00	0	0	24.64	24.42	6,086.38	13,690.82	-7,604.44
476+00.00	0	0	22.4	21.78	6,086.38	13,712.60	-7,626.22
476+25.00	0	0	21.01	20.1	6,086.38	13,732.70	-7,646.32
476+50.00	0	0	20.83	19.37	6,086.38	13,752.07	-7,665.69
476+75.00	0	0	22.78	20.19	6,086.38	13,772.26	-7,685.87
477+00.00	0	0	25.64	22.42	6,086.38	13,794.68	-7,708.29
477+25.00	0	0	29.44	25.5	6,086.38	13,820.18	-7,733.79
477+50.00	0	0	33.64	29.2	6,086.38	13,849.38	-7,763.00
477+75.00	0	0	36.61	32.53	6,086.38	13,881.91	-7,795.52
478+00.00	0	0	39.44	35.21	6,086.38	13,917.12	-7,830.73
478+25.00	0	0	40.05	36.8	6,086.38	13,953.92	-7,867.54
478+50.00	0	0	38.52	36.38	6,086.38	13,990.30	-7,903.92
478+75.00	0	0	37.43	35.17	6,086.38	14,025.47	-7,939.08
478+99.33	0	0	32.6	31.55	6,086.38	14,057.02	-7,970.64
479+00.00	0	0	32.48	0.81	6,086.38	14,057.83	-7,971.44
479+25.00	0	0	29.12	28.52	6,086.38	14,086.34	-7,999.96
479+50.00	0	0	27.88	26.39	6,086.38	14,112.73	-8,026.35
479+75.00	0	0	26.58	25.22	6,086.38	14,137.95	-8,051.56
480+00.00	0	0	23.26	23.08	6,086.38	14,161.03	-8,074.64
480+25.00	0	0	20.48	20.25	6,086.38	14,181.28	-8,094.89

RAW EARTHWORK VOLUME REPORT (END AREAS INCLUDE PCC OVERLAY)

Aignment: 2018 Design Centerline G28

Station	Cut Area (Sq.Ft.)	Cut Volume (Cu.Yd)	Fill Area (Sq.Ft.)	Fill Volume (Cu.Yd)	Cum. Cut Vol. (Cu.Yd)	Cum. Fill Vol. (Cu.Yd)	Cum. Net Vol. (Cu.Yd)
480+50.00	0	0	19.58	18.55	6,086.38	14,199.82	-8,113.44
480+75.00	0	0	18.41	17.59	6,086.38	14,217.41	-8,131.03
480+96.50	0	0	17.97	14.48	6,086.38	14,231.90	-8,145.51
481+00.00	0	0	17.96	2.33	6,086.38	14,234.23	-8,147.84
481+25.00	0	0	17.69	16.51	6,086.38	14,250.73	-8,164.35
481+50.00	0	0	17.74	16.4	6,086.38	14,267.13	-8,180.75
481+75.00	0	0	20.17	17.55	6,086.38	14,284.68	-8,198.30
482+00.00	0	0	22.66	19.83	6,086.38	14,304.51	-8,218.13
482+25.00	0	0	25.5	22.3	6,086.38	14,326.81	-8,240.42
482+50.00	0	0	27.12	24.36	6,086.38	14,351.17	-8,264.78
482+75.00	0	0	28.01	25.52	6,086.38	14,376.69	-8,290.31
483+00.00	0	0	27.99	25.93	6,086.38	14,402.62	-8,316.23
483+25.00	0	0	28.07	25.95	6,086.38	14,428.57	-8,342.19
483+50.00	0	0	29.71	26.75	6,086.38	14,455.32	-8,368.94
483+75.00	0	0	30.95	28.08	6,086.38	14,483.40	-8,397.02
484+00.00	0	0	31.56	28.94	6,086.38	14,512.34	-8,425.96
484+25.00	0	0	30.6	28.78	6,086.38	14,541.12	-8,454.73
484+50.00	0	0	27.92	27.09	6,086.38	14,568.21	-8,481.83
484+75.00	0	0	24.83	24.42	6,086.38	14,592.63	-8,506.25
485+00.00	0	0	21.51	21.45	6,086.38	14,614.09	-8,527.70
485+25.00	0	0	20.98	19.67	6,086.38	14,633.76	-8,547.37
485+38.00	0	0	21.3	10.18	6,086.38	14,643.93	-8,557.55
485+50.00	0	0	21.45	9.5	6,086.38	14,653.44	-8,567.05
485+75.00	0	0	23.28	20.71	6,086.38	14,674.15	-8,587.76
486+00.00	0	0	24.38	22.07	6,086.38	14,696.21	-8,609.83
486+25.00	0	0	27.03	23.8	6,086.38	14,720.01	-8,633.63
486+50.00	0	0	31.57	27.13	6,086.38	14,747.14	-8,660.76
486+75.00	0	0	36.45	31.49	6,086.38	14,778.63	-8,692.25
487+00.00	0	0	32.9	32.11	6,086.38	14,810.74	-8,724.35
487+25.00	0	0	29.26	28.78	6,086.38	14,839.51	-8,753.13
487+50.00	0	0	27.02	26.05	6,086.38	14,865.57	-8,779.18
487+75.00	0	0	27.14	25.07	6,086.38	14,890.64	-8,804.26
488+00.00	0	0	26.07	24.63	6,086.38	14,915.27	-8,828.89
488+25.00	0	0	24.19	23.27	6,086.38	14,938.54	-8,852.16
488+50.00	0	0	23.28	21.98	6,086.38	14,960.52	-8,874.13
488+75.00	0	0	22.29	21.1	6,086.38	14,981.62	-8,895.24
489+00.00	0	0	23.38	21.15	6,086.38	15,002.77	-8,916.38
489+25.00	0	0	24.75	22.29	6,086.38	15,025.06	-8,938.67
489+50.00	0	0	24.21	22.67	6,086.38	15,047.73	-8,961.34
489+75.00	0	0	22.35	21.56	6,086.38	15,069.28	-8,982.90
490+00.00	0	0	20.75	19.95	6,086.38	15,089.23	-9,002.85
490+25.00	0	0	18.82	18.32	6,086.38	15,107.55	-9,021.17
490+50.00	0	0	20.32	18.12	6,086.38	15,125.67	-9,039.29
490+75.00	0	0	20.97	19.12	6,086.38	15,144.79	-9,058.40
491+00.00	0	0	22.08	19.93	6,086.38	15,164.72	-9,078.34
491+25.00	0	0	22.7	20.73	6,086.38	15,185.45	-9,099.07
491+50.00	0	0	23.17	21.24	6,086.38	15,206.69	-9,120.30
491+75.00	0	0	22.96	21.36	6,086.38	15,228.04	-9,141.66
491+88.82	0	0	22.86	11.73	6,086.38	15,239.77	-9,153.39
491+98.00	0	0	22.58	7.72	6,086.38	15,247.50	-9,161.11
492+00.00	0	0	22.49	1.67	6,086.38	15,249.16	-9,162.78
492+25.00	0	0	24.17	21.6	6,086.38	15,270.77	-9,184.38
492+50.00	0	0	27.47	23.91	6,086.38	15,294.68	-9,208.29
492+75.00	0	0	27.05	25.24	6,086.38	15,319.91	-9,233.53
493+00.00	0	0	27.01	25.03	6,086.38	15,344.94	-9,258.55
493+25.00	0	0	26.29	24.67	6,086.38	15,369.61	-9,283.23
493+50.00	0	0	25.88	24.15	6,086.38	15,393.77	-9,307.38

RAW EARTHWORK VOLUME REPORT (END AREAS INCLUDE PCC OVERLAY)

Aignment: 2018 Design Centerline G28

Station	Cut Area (Sq.Ft.)	Cut Volume (Cu.Yd)	Fill Area (Sq.Ft.)	Fill Volume (Cu.Yd)	Cum. Cut Vol. (Cu.Yd)	Cum. Fill Vol. (Cu.Yd)	Cum. Net Vol. (Cu.Yd)
493+75.00	0	0	26.43	24.22	6,086.38	15,417.98	-9,331.60
494+00.00	0	0	27.18	24.82	6,086.38	15,442.80	-9,356.42
494+25.00	0	0	27.33	25.24	6,086.38	15,468.04	-9,381.65
494+50.00	0	0	27.25	25.27	6,086.38	15,493.31	-9,406.92
494+75.00	0	0	24.77	24.08	6,086.38	15,517.39	-9,431.01
495+00.00	0	0	21.57	21.45	6,086.38	15,538.85	-9,452.46
495+25.00	0	0	20.51	19.48	6,086.38	15,558.33	-9,471.94
495+50.00	1.08	0.5	19.62	18.58	6,086.88	15,576.91	-9,490.02
495+75.00	4.12	2.41	17.91	17.38	6,089.29	15,594.28	-9,504.99
496+00.00	7.97	5.6	18.74	16.96	6,094.89	15,611.25	-9,516.36
496+25.00	10.53	8.57	22.67	19.17	6,103.45	15,630.42	-9,526.97
496+50.00	3.82	6.64	26.81	22.91	6,110.09	15,653.33	-9,543.23
496+75.00	9.12	5.99	29.12	25.89	6,116.08	15,679.22	-9,563.14
497+00.00	10.67	9.16	29.82	27.29	6,125.24	15,706.51	-9,581.26
497+25.00	12.09	10.54	32.13	28.68	6,135.78	15,735.19	-9,599.41
497+50.00	7.29	8.97	56.19	40.89	6,144.75	15,776.08	-9,631.33
497+50.01	49.22	0.01	28.18	0.02	6,144.76	15,776.09	-9,631.33
497+72.75	50.81	42.12	30.86	24.86	6,186.89	15,800.96	-9,614.07
497+72.75	50.81	0	30.86	0	6,186.89	15,800.96	-9,614.07
497+75.00	50.92	4.24	31.57	2.6	6,191.13	15,803.56	-9,612.43
497+90.00	53.73	29.07	35.99	18.77	6,220.20	15,822.32	-9,602.13
498+00.00	52.12	19.6	38.54	13.8	6,239.80	15,836.13	-9,596.33
498+25.00	56.97	50.5	43.99	38.21	6,290.30	15,874.33	-9,584.03
498+26.20	57.51	2.54	44.08	1.96	6,292.84	15,876.29	-9,583.45
498+50.00	73.18	57.6	46.76	40.04	6,350.45	15,916.33	-9,565.88
498+75.00	88.01	74.62	47.17	43.48	6,425.07	15,959.81	-9,534.74
498+79.65	87.53	15.11	47.23	8.12	6,440.18	15,967.94	-9,527.76
499+00.00	78.9	62.73	50.88	36.98	6,502.90	16,004.91	-9,502.01
499+17.50	74.96	49.87	57.81	35.23	6,552.77	16,040.14	-9,487.37
499+25.00	72.3	20.45	60.54	16.43	6,573.22	16,056.57	-9,483.36
499+33.10	87.17	23.91	63.07	18.53	6,597.13	16,075.11	-9,477.98
499+34.70	83.5	5.07	65.03	3.8	6,602.20	16,078.91	-9,476.72
499+44.51	75.34	28.87	72.22	24.95	6,631.07	16,103.86	-9,472.79
499+50.00	76.56	15.43	99.97	17.49	6,646.50	16,121.35	-9,474.85
499+75.00	87.47	75.94	56.02	72.21	6,722.44	16,193.56	-9,471.12
499+81.20	87.82	20.13	46.52	11.77	6,742.56	16,205.33	-9,462.77
500+00.00	136.03	77.93	35.29	28.48	6,820.50	16,233.81	-9,413.32
500+25.00	155.5	134.96	31.75	31.04	6,955.46	16,264.85	-9,309.39
500+50.00	161.96	146.97	25.75	26.62	7,102.43	16,291.48	-9,189.04
500+75.00	174.61	155.82	27.1	24.47	7,258.26	16,315.95	-9,057.69
501+00.00	174.35	161.56	28.9	25.93	7,419.81	16,341.88	-8,922.06
501+25.00	174.21	161.37	31.24	27.85	7,581.18	16,369.72	-8,788.54
501+50.00	157.36	153.5	34.1	30.25	7,734.69	16,399.97	-8,665.29
501+75.00	126.33	131.34	35.9	32.41	7,866.03	16,432.38	-8,566.35
502+00.00	109.37	109.12	36.95	33.73	7,975.15	16,466.11	-8,490.96
502+25.00	101.61	97.68	38.64	35	8,072.83	16,501.10	-8,428.28
502+28.95	101.08	14.82	39	5.68	8,087.65	16,506.78	-8,419.13
502+50.00	97.27	77.32	40.95	31.17	8,164.97	16,537.95	-8,372.98
502+75.00	95.4	89.2	34.92	35.12	8,254.17	16,573.07	-8,318.90
503+00.00	88.32	85.05	30.72	30.39	8,339.22	16,603.46	-8,264.24
503+25.00	84.97	80.23	38.67	32.12	8,419.45	16,635.58	-8,216.13
503+50.00	82.68	77.61	51.29	41.64	8,497.06	16,677.23	-8,180.16
503+75.00	79.8	75.22	54.38	48.92	8,572.29	16,726.15	-8,153.86
504+00.00	78.22	73.16	47.77	47.29	8,645.44	16,773.44	-8,128.00
504+25.00	75.02	70.95	38.99	40.16	8,716.39	16,813.60	-8,097.22
504+50.00	72.01	68.07	39.24	36.21	8,784.46	16,849.82	-8,065.36
504+75.00	66.84	64.29	37.75	35.64	8,848.75	16,885.46	-8,036.72

RAW EARTHWORK VOLUME REPORT (END AREAS INCLUDE PCC OVERLAY)

Aignment: 2018 Design Centerline G28

Station	Cut Area (Sq.Ft.)	Cut Volume (Cu.Yd)	Fill Area (Sq.Ft.)	Fill Volume (Cu.Yd)	Cum. Cut Vol. (Cu.Yd)	Cum. Fill Vol. (Cu.Yd)	Cum. Net Vol. (Cu.Yd)
504+76.70	66.7	4.2	37.8	2.38	8,852.95	16,887.84	-8,034.89
505+00.00	71.11	59.46	39.69	33.44	8,912.41	16,921.28	-8,008.87
505+23.20	55.14	54.23	49.74	38.42	8,966.65	16,959.69	-7,993.05
505+24.80	54.99	3.27	49.46	2.95	8,969.92	16,962.64	-7,992.72
505+25.00	54.98	0.4	49.47	0.36	8,970.32	16,963.00	-7,992.68
505+50.00	48.97	48.13	53.81	47.81	9,018.45	17,010.82	-7,992.37
505+75.00	45.15	43.58	61.97	53.6	9,062.02	17,064.42	-8,002.40
505+78.25	44.78	5.41	63.28	7.54	9,067.43	17,071.96	-8,004.52
506+00.00	41.76	34.86	70.04	53.7	9,102.29	17,125.66	-8,023.37
506+25.00	37.16	36.53	78.69	68.86	9,138.83	17,194.51	-8,055.69
506+31.70	36.34	9.12	80.96	19.8	9,147.94	17,214.31	-8,066.37
506+50.00	34.02	23.85	84.05	55.93	9,171.79	17,270.24	-8,098.45
506+75.00	36.27	32.54	80.32	76.1	9,204.33	17,346.34	-8,142.01
506+85.15	39.16	14.17	77.98	29.74	9,218.50	17,376.08	-8,157.58
506+85.15	39.16	0.01	77.98	0.01	9,218.51	17,376.09	-8,157.58
507+00.00	42.28	22.4	75.55	42.22	9,240.90	17,418.31	-8,177.41
507+25.00	47.52	41.58	72.28	68.44	9,282.48	17,486.75	-8,204.27
507+50.00	56.67	48.24	59.03	60.79	9,330.72	17,547.54	-8,216.83
507+75.00	68.95	58.16	51.69	51.26	9,388.87	17,598.80	-8,209.93
507+90.00	78.24	40.89	39.93	25.45	9,429.76	17,624.25	-8,194.49
508+00.00	84.83	30.2	33.15	13.53	9,459.95	17,637.78	-8,177.83
508+25.00	104.82	87.8	20.22	24.71	9,547.76	17,662.49	-8,114.74
508+34.33	111.46	37.37	13.46	5.82	9,585.12	17,668.31	-8,083.19
508+50.00	205.33	91.93	2.18	4.54	9,677.05	17,672.85	-7,995.80
508+62.01	274	106.59	0.08	0.5	9,783.65	17,673.35	-7,889.71
508+67.58	276.69	56.81	0.11	0.02	9,840.45	17,673.37	-7,832.92
508+75.00	270.18	75.15	0.52	0.09	9,915.61	17,673.46	-7,757.85
509+00.00	148.83	193.99	4.79	2.46	10,109.59	17,675.92	-7,566.32
509+25.00	112.89	121.17	39.71	20.6	10,230.76	17,696.52	-7,465.76
509+50.00	125.33	110.29	68.42	50.06	10,341.05	17,746.58	-7,405.53
509+75.00	240.38	169.31	70.18	64.17	10,510.36	17,810.75	-7,300.38
510+00.00	449.89	319.57	92.28	75.21	10,829.94	17,885.96	-7,056.02
510+18.33	640.98	370.37	134.39	76.96	11,200.30	17,962.92	-6,762.61
510+25.00	818.21	180.13	132.36	32.93	11,380.44	17,995.84	-6,615.41
510+50.00	1,364.50	1,010.51	79.68	98.17	12,390.95	18,094.01	-5,703.06
510+75.00	2,087.65	1,598.22	67.33	68.06	13,989.17	18,162.07	-4,172.90
510+79.03	2,182.10	318.51	68.46	10.13	14,307.68	18,172.20	-3,864.52
510+79.03	2,182.14	0.14	68.46	0	14,307.83	18,172.20	-3,864.38
510+85.98	2,339.06	581.79	67.39	17.48	14,889.62	18,189.69	-3,300.07
511+00.00	2,586.34	1,278.89	14.23	21.19	16,168.51	18,210.88	-2,042.37
511+25.00	2,670.21	2,433.59	74.2	40.94	18,602.10	18,251.82	350.28
511+32.36	2,646.51	724.8	80.15	21.04	19,326.90	18,272.86	1,054.04
511+50.00	2,512.13	1,685.00	89.97	55.57	21,011.90	18,328.43	2,683.47
511+75.00	2,382.16	2,265.87	100.54	88.2	23,277.78	18,416.63	4,861.15
511+85.69	2,409.16	948.94	104.83	40.68	24,226.71	18,457.30	5,769.41
512+00.00	2,472.02	1,293.07	114.01	57.97	25,519.78	18,515.28	7,004.51
512+25.00	2,394.65	2,253.09	125.67	110.96	27,772.87	18,626.24	9,146.63
512+39.03	2,208.20	1,195.74	129.38	66.26	28,968.61	18,692.50	10,276.11
512+44.36	2,137.31	429.19	129.88	25.61	29,397.80	18,718.10	10,679.70
512+50.00	2,076.10	439.94	129.07	27.04	29,837.74	18,745.14	11,092.60
512+75.00	1,781.39	1,785.87	96.08	104.23	31,623.62	18,849.37	12,774.24
512+92.36	1,422.63	1,030.13	72.95	54.34	32,653.74	18,903.72	13,750.03
513+00.00	1,255.35	378.81	63.07	19.24	33,032.55	18,922.96	14,109.59
513+00.32	1,248.81	14.73	62.68	0.74	33,047.28	18,923.70	14,123.58
513+25.00	805.43	938.95	44.27	48.89	33,986.24	18,972.59	15,013.65
513+50.00	422.8	568.63	41.61	39.76	34,554.86	19,012.34	15,542.52
513+75.00	157.8	268.8	42.61	38.99	34,823.66	19,051.34	15,772.32

RAW EARTHWORK VOLUME REPORT (END AREAS INCLUDE PCC OVERLAY)

Aignment: 2018 Design Centerline G28

Station	Cut Area (Sq.Ft.)	Cut Volume (Cu.Yd)	Fill Area (Sq.Ft.)	Fill Volume (Cu.Yd)	Cum. Cut Vol. (Cu.Yd)	Cum. Fill Vol. (Cu.Yd)	Cum. Net Vol. (Cu.Yd)
514+00.00	59.94	100.8	50.08	42.91	34,924.46	19,094.25	15,830.21
514+25.00	81.11	65.3	39.27	41.36	34,989.76	19,135.61	15,854.15
514+27.68	86.96	8.33	36.93	3.78	34,998.09	19,139.39	15,858.70
514+50.00	217.02	125.67	0	15.27	35,123.76	19,154.66	15,969.10
514+61.24	216.81	90.28	0	0	35,214.04	19,154.66	16,059.39
514+75.00	189.46	103.54	0	0	35,317.58	19,154.66	16,162.93
515+00.00	97.8	132.99	9.78	4.53	35,450.58	19,159.18	16,291.39
515+25.00	103.77	93.32	16.57	12.2	35,543.90	19,171.38	16,372.52
515+30.99	102.5	22.88	16.55	3.67	35,566.78	19,175.06	16,391.72
515+50.00	106.13	73.45	13.7	10.65	35,640.23	19,185.71	16,454.52
515+75.00	146.97	117.18	3.03	7.74	35,757.40	19,193.45	16,563.95
515+81.30	152.88	34.97	4.32	0.86	35,792.37	19,194.31	16,598.06
515+84.33	153.31	17.2	5.34	0.54	35,809.57	19,194.85	16,614.71
516+00.00	123.55	80.34	5.57	3.17	35,889.91	19,198.02	16,691.89
516+10.99	124.53	50.49	0.41	1.22	35,940.39	19,199.24	16,741.16
516+25.00	155.31	72.61	0.14	0.14	36,013.00	19,199.38	16,813.62
516+37.66	184.19	79.59	0	0.03	36,092.59	19,199.41	16,893.18
516+37.85	185.43	1.29	0	0	36,093.89	19,199.41	16,894.48
516+50.00	197.87	86.25	0.1	0.02	36,180.14	19,199.43	16,980.70
516+75.00	207.57	187.71	19.5	9.07	36,367.84	19,208.51	17,159.33
516+90.99	182.57	115.52	22.89	12.55	36,483.37	19,221.06	17,262.31
516+91.00	230.33	0.08	22.9	0.01	36,483.45	19,221.07	17,262.37
517+00.00	205.07	72.57	25.61	8.08	36,556.01	19,229.15	17,326.86
517+24.13	151.55	159.33	79.8	47.09	36,715.35	19,276.25	17,439.10
517+25.00	143.73	4.78	83.59	2.64	36,720.12	19,278.89	17,441.23
517+28.90	115.63	18.75	106.02	13.71	36,738.87	19,292.60	17,446.27
517+30.01	115.11	4.75	110.05	4.44	36,743.62	19,297.04	17,446.57
517+50.00	136.04	92.95	33.94	53.29	36,836.57	19,350.33	17,486.23
517+58.63	182.88	50.97	23.39	9.16	36,887.54	19,359.50	17,528.04
517+75.00	249.48	131.07	8.47	9.66	37,018.60	19,369.16	17,649.45
517+93.82	230.91	167.4	5.29	4.79	37,186.01	19,373.95	17,812.06
518+00.00	223.57	52.04	6.78	1.38	37,238.04	19,375.33	17,862.71
518+00.32	223.85	2.63	6.99	0.08	37,240.68	19,375.41	17,865.26
518+25.00	232.61	208.64	13.38	9.31	37,449.31	19,384.72	18,064.59
518+31.45	236.59	56.07	13.54	3.22	37,505.38	19,387.94	18,117.44
518+42.48	238.16	96.99	5.79	3.95	37,602.37	19,391.89	18,210.48
518+50.00	300.01	74.9	1.15	0.97	37,677.27	19,392.85	18,284.41
518+67.53	327.48	203.67	0.07	0.4	37,880.94	19,393.25	18,487.69
518+75.00	322.23	89.91	0	0.01	37,970.85	19,393.26	18,577.59
519+00.00	142.59	215.2	31.03	14.36	38,186.04	19,407.63	18,778.42
519+25.00	136.64	129.27	29.76	28.14	38,315.32	19,435.77	18,879.55
519+50.00	132.25	124.49	22.53	24.21	38,439.80	19,459.97	18,979.83
519+75.00	145.07	128.39	18.58	19.03	38,568.19	19,479.00	19,089.19
520+00.00	152.89	137.94	15.56	15.8	38,706.14	19,494.81	19,211.33
520+05.36	155.47	30.62	14.82	3.02	38,736.76	19,497.83	19,238.94
520+25.00	167.64	117.5	12.75	10.03	38,854.26	19,507.85	19,346.41
520+50.00	181.42	161.6	11.52	11.24	39,015.86	19,519.09	19,496.78
520+75.00	187.65	170.87	10.92	10.39	39,186.73	19,529.48	19,657.25
521+00.00	174.93	167.86	9.61	9.5	39,354.59	19,538.99	19,815.60
521+10.27	172.3	66.03	7.94	3.34	39,420.62	19,542.32	19,878.30
521+25.00	171.04	93.66	6.72	4	39,514.29	19,546.32	19,967.96
521+50.00	168.76	157.32	6.01	5.9	39,671.60	19,552.22	20,119.39
521+75.00	177.2	160.17	4.36	4.8	39,831.77	19,557.02	20,274.75
521+99.99	194.15	171.85	3.33	3.56	40,003.62	19,560.57	20,443.05
522+00.00	171.35	0.07	23.39	0	40,003.69	19,560.58	20,443.11
522+25.00	179.27	162.32	16.14	18.3	40,166.01	19,578.88	20,587.13
522+50.00	195.85	173.67	14.03	13.97	40,339.68	19,592.85	20,746.83

RAW EARTHWORK VOLUME REPORT (END AREAS INCLUDE PCC OVERLAY)

Aignment: 2018 Design Centerline G28

Station	Cut Area (Sq.Ft.)	Cut Volume (Cu.Yd)	Fill Area (Sq.Ft.)	Fill Volume (Cu.Yd)	Cum. Cut Vol. (Cu.Yd)	Cum. Fill Vol. (Cu.Yd)	Cum. Net Vol. (Cu.Yd)
522+65.90	191.96	114.18	10.13	7.11	40,453.86	19,599.97	20,853.89
522+75.00	192.63	64.82	8.21	3.09	40,518.68	19,603.06	20,915.62
522+81.82	188.52	48.15	14.47	2.87	40,566.83	19,605.92	20,960.91
522+86.60	190.09	33.49	35.81	4.45	40,600.32	19,610.37	20,989.95
523+00.00	190.54	94.46	21.95	14.33	40,694.79	19,624.70	21,070.08
523+02.93	194.47	20.91	17.1	2.12	40,715.69	19,626.82	21,088.87
523+25.00	97.79	119.44	4.28	8.74	40,835.13	19,635.56	21,199.57
523+34.90	88.24	34.1	3.02	1.34	40,869.23	19,636.90	21,232.33
523+50.00	91.21	50.18	0.65	1.03	40,919.41	19,637.92	21,281.49
523+51.47	91.73	4.99	0.68	0.04	40,924.40	19,637.96	21,286.44
523+66.63	95.39	52.52	0.08	0.21	40,976.93	19,638.17	21,338.75
523+75.00	95.21	29.54	0	0.01	41,006.47	19,638.19	21,368.28
523+87.98	91.59	44.89	0	0	41,051.35	19,638.19	21,413.17
523+87.98	91.59	0.01	0	0	41,051.36	19,638.19	21,413.18
523+94.96	88.94	23.33	0.21	0.03	41,074.69	19,638.21	21,436.48
524+00.00	87.69	16.5	0.07	0.03	41,091.19	19,638.24	21,452.95
524+25.00	86.21	80.51	0.6	0.31	41,171.70	19,638.55	21,533.15
524+30.00	85.95	15.94	0.71	0.12	41,187.64	19,638.67	21,548.97
524+46.27	86.1	51.83	0.67	0.41	41,239.47	19,639.08	21,600.39
524+50.00	86.18	11.91	0.6	0.09	41,251.38	19,639.17	21,612.20
524+75.00	89.17	81.18	0.08	0.32	41,332.56	19,639.49	21,693.07
525+00.00	91.19	83.5	0.03	0.05	41,416.06	19,639.54	21,776.52
525+16.91	91.87	57.31	1.43	0.46	41,473.37	19,639.99	21,833.38
525+25.00	92.78	27.68	1.4	0.42	41,501.05	19,640.42	21,860.63
525+50.00	98.64	88.62	0	0.65	41,589.67	19,641.06	21,948.61
525+75.00	98.63	91.33	0	0	41,681.00	19,641.06	22,039.93
526+00.00	96.78	90.47	0.28	0.13	41,771.46	19,641.19	22,130.27
526+25.00	98.07	90.21	0.05	0.15	41,861.67	19,641.34	22,220.33
526+50.00	93.51	88.69	0.23	0.13	41,950.36	19,641.47	22,308.89
526+58.19	91.85	28.13	1.06	0.2	41,978.49	19,641.67	22,336.82
526+64.50	91.36	21.4	0.4	0.17	41,999.89	19,641.84	22,358.05
526+75.00	92.13	35.68	0.38	0.15	42,035.56	19,641.99	22,393.58
526+81.66	93.5	22.91	0.68	0.13	42,058.47	19,642.12	22,416.36
527+00.00	95.26	64.09	0	0.23	42,122.57	19,642.35	22,480.22
527+25.00	91.84	86.62	1.01	0.47	42,209.19	19,642.81	22,566.37
527+50.00	89.68	84.04	5.44	2.98	42,293.22	19,645.80	22,647.43
527+75.00	86.85	81.73	6.82	5.68	42,374.95	19,651.47	22,723.47
528+00.00	84.99	79.56	8.41	7.05	42,454.51	19,658.53	22,795.98
528+25.00	84.14	78.3	8.43	7.79	42,532.81	19,666.32	22,866.49
528+30.00	83.93	15.56	8.78	1.59	42,548.37	19,667.91	22,880.46
528+50.00	83.19	61.9	10.87	7.28	42,610.27	19,675.19	22,935.08
528+75.00	83.88	77.34	15.8	12.35	42,687.61	19,687.54	23,000.07
528+80.00	84.15	15.56	16.74	3.01	42,703.17	19,690.55	23,012.61
529+00.00	84.9	62.61	18.23	12.95	42,765.78	19,703.51	23,062.27
529+25.00	85.97	79.11	18.78	17.13	42,844.89	19,720.64	23,124.25
529+50.00	87	80.08	19.39	17.67	42,924.96	19,738.31	23,186.65
529+62.37	87.21	39.91	19.19	8.84	42,964.87	19,747.15	23,217.72
529+75.00	88.23	41.03	21.51	9.52	43,005.90	19,756.67	23,249.24
530+00.00	90.25	82.63	21.72	20.01	43,088.54	19,776.68	23,311.86
530+25.00	91.65	84.22	22.12	20.3	43,172.75	19,796.98	23,375.78
530+50.00	91.81	84.94	21.37	20.13	43,257.69	19,817.11	23,440.58
530+75.00	93.42	85.75	21.56	19.87	43,343.44	19,836.99	23,506.46
531+00.00	95.57	87.49	21.5	19.93	43,430.94	19,856.92	23,574.02
531+25.00	96.26	88.81	21.98	20.13	43,519.74	19,877.05	23,642.70
531+50.00	96.06	89.04	20.26	19.55	43,608.78	19,896.60	23,712.18
531+75.00	95.64	88.75	23.47	20.24	43,697.53	19,916.85	23,780.68
532+00.00	93.83	87.72	27.41	23.56	43,785.25	19,940.41	23,844.85

RAW EARTHWORK VOLUME REPORT (END AREAS INCLUDE PCC OVERLAY)

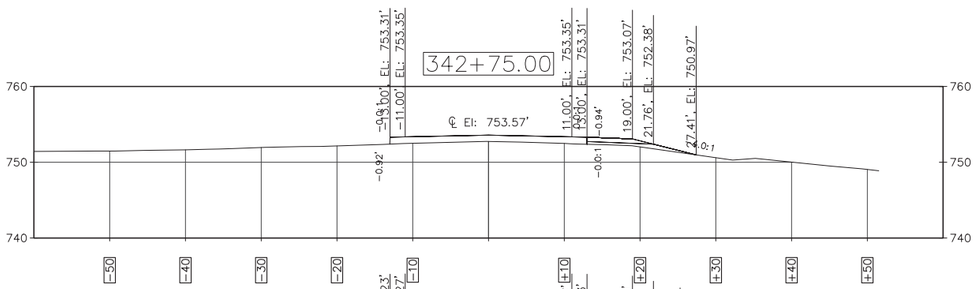
Aignment: 2018 Design Centerline G28

Station	Cut Area (Sq.Ft.)	Cut Volume (Cu.Yd)	Fill Area (Sq.Ft.)	Fill Volume (Cu.Yd)	Cum. Cut Vol. (Cu.Yd)	Cum. Fill Vol. (Cu.Yd)	Cum. Net Vol. (Cu.Yd)
532+25.00	91.69	85.89	31.07	27.07	43,871.14	19,967.48	23,903.66
532+33.73	91.15	29.54	32.81	10.32	43,900.68	19,977.80	23,922.88
532+33.79	91.14	0.2	32.8	0.07	43,900.89	19,977.88	23,923.01
532+50.00	92.29	55.08	31.31	19.25	43,955.96	19,997.13	23,958.84
532+75.00	93.1	85.83	30.83	28.77	44,041.79	20,025.90	24,015.90
532+94.72	85	65.04	48.25	28.88	44,106.84	20,054.78	24,052.06
532+95.05	84.91	1.02	49.18	0.59	44,107.86	20,055.36	24,052.50
533+00.00	85.31	15.61	39.54	8.14	44,123.47	20,063.50	24,059.97
533+25.00	86.89	79.72	28.4	31.46	44,203.19	20,094.96	24,108.23
533+50.00	83.16	78.73	33.25	28.54	44,281.92	20,123.50	24,158.42
533+75.00	80.44	75.74	33.4	30.86	44,357.66	20,154.36	24,203.30
534+00.00	79.82	74.19	29.7	29.21	44,431.85	20,183.57	24,248.28
534+15.70	79.63	46.36	36.51	19.25	44,478.22	20,202.83	24,275.39
534+25.00	79.28	27.36	34.34	12.2	44,505.58	20,215.03	24,290.55
534+50.00	78.63	73.11	28.84	29.25	44,578.68	20,244.27	24,334.41
534+75.00	79.42	73.17	27.74	26.19	44,651.85	20,270.47	24,381.39
534+90.97	79.5	47	27.23	16.26	44,698.85	20,286.72	24,412.13
535+00.00	79.6	26.61	27.14	9.09	44,725.46	20,295.82	24,429.64
535+21.75	81.8	65	25.59	21.24	44,790.46	20,317.06	24,473.41
535+25.00	81.99	9.86	21	2.81	44,800.33	20,319.86	24,480.46
535+50.00	81.5	75.69	28.16	22.76	44,876.02	20,342.62	24,533.39
535+75.00	84.35	76.78	33.52	28.55	44,952.80	20,371.18	24,581.62
536+00.00	88.8	80.16	38.53	33.36	45,032.96	20,404.53	24,628.42
536+25.00	95.11	85.15	42.73	37.62	45,118.10	20,442.15	24,675.95
536+50.00	91.86	86.56	47.86	41.94	45,204.67	20,484.09	24,720.57
536+75.00	92.45	85.33	47.05	43.94	45,289.99	20,528.03	24,761.96
536+80.00	92.18	17.1	47.77	8.78	45,307.09	20,536.81	24,770.28
537+00.00	90.22	67.56	52.09	36.98	45,374.65	20,573.79	24,800.85
537+25.00	90.71	83.76	52.78	48.55	45,458.41	20,622.35	24,836.06
537+50.00	91.93	84.55	51.41	48.24	45,542.96	20,670.58	24,872.38
537+59.05	91.61	30.76	47.1	16.51	45,573.72	20,687.09	24,886.63
537+75.00	92.12	54.27	39.62	25.61	45,627.99	20,712.70	24,915.29
538+00.00	93.37	85.88	26.27	30.5	45,713.87	20,743.21	24,970.66
538+25.00	94.95	87.18	20.27	21.55	45,801.06	20,764.76	25,036.30
538+50.00	93.48	87.23	12.09	14.98	45,888.29	20,779.74	25,108.55
538+75.00	91.48	85.63	6.97	8.82	45,973.92	20,788.56	25,185.36
539+00.00	91.09	84.52	4.66	5.38	46,058.44	20,793.94	25,264.50
539+10.97	90	36.79	3.65	1.69	46,095.23	20,795.63	25,299.60
539+25.00	90.1	46.79	2.15	1.51	46,142.02	20,797.14	25,344.88
539+35.82	89.96	36.07	2.27	0.89	46,178.09	20,798.02	25,380.07
539+50.00	90.53	47.41	3.19	1.43	46,225.50	20,799.46	25,426.04
539+61.12	89.35	37.05	5.25	1.74	46,262.55	20,801.19	25,461.35
539+75.00	89.84	46.05	5.14	2.67	46,308.60	20,803.86	25,504.74
539+78.20	89.81	10.64	5.12	0.61	46,319.24	20,804.47	25,514.77
539+85.38	93.3	24.34	2.31	0.99	46,343.58	20,805.46	25,538.12
539+99.72	94.73	49.96	3.45	1.53	46,393.53	20,806.99	25,586.54
540+00.00	94.68	0.97	3.47	0.04	46,394.51	20,807.02	25,587.48
540+25.00	88.99	85.03	5.68	4.23	46,479.54	20,811.26	25,668.28
540+50.00	89.17	82.48	7.62	6.15	46,562.02	20,817.41	25,744.61
540+75.00	90.79	83.31	15.14	10.54	46,645.33	20,827.95	25,817.38
541+00.00	92.62	84.91	26.11	19.1	46,730.24	20,847.04	25,883.20
541+25.00	93.98	86.39	35.03	28.3	46,816.63	20,875.35	25,941.29
541+50.00	95.85	87.89	42.31	35.81	46,904.52	20,911.15	25,993.37
541+75.00	98.78	90.11	47.53	41.6	46,994.63	20,952.75	26,041.88
542+00.00	99.81	91.94	51.95	46.06	47,086.57	20,998.80	26,087.76
542+19.05	101.48	71.01	54	37.38	47,157.57	21,036.18	26,121.39
542+25.00	102.57	22.49	54.44	11.95	47,180.06	21,048.13	26,131.93

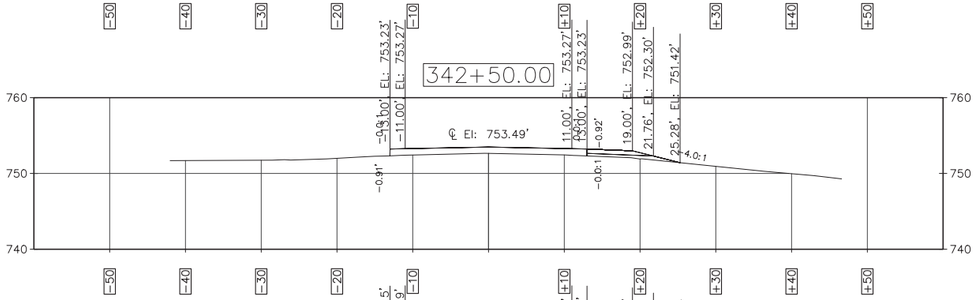
RAW EARTHWORK VOLUME REPORT (END AREAS INCLUDE PCC OVERLAY)

Aignment: 2018 Design Centerline G28

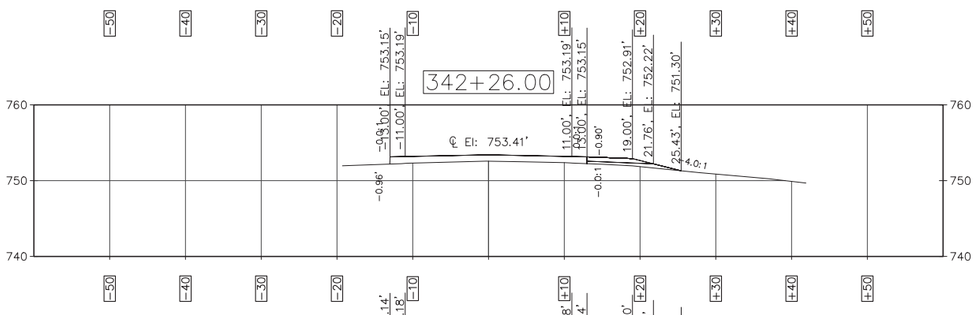
Station	Cut Area (Sq.Ft.)	Cut Volume (Cu.Yd)	Fill Area (Sq.Ft.)	Fill Volume (Cu.Yd)	Cum. Cut Vol. (Cu.Yd)	Cum. Fill Vol. (Cu.Yd)	Cum. Net Vol. (Cu.Yd)
542+50.00	104.2	95.73	54.34	50.36	47,275.79	21,098.49	26,177.30
542+74.05	103.65	92.57	52.42	47.55	47,368.35	21,146.04	26,222.32
542+75.00	103.73	3.65	52.28	1.84	47,372.01	21,147.88	26,224.12
543+00.00	102.36	95.41	53.76	49.09	47,467.42	21,196.98	26,270.45
543+25.00	96.74	92.18	55.42	50.55	47,559.60	21,247.52	26,312.08
543+50.00	92.43	87.58	49.04	48.36	47,647.18	21,295.88	26,351.30
543+75.00	89.02	84.01	46.58	44.27	47,731.18	21,340.15	26,391.03
544+00.00	86.11	81.08	50.41	44.9	47,812.26	21,385.05	26,427.21
544+25.00	85	79.22	52.91	47.83	47,891.48	21,432.89	26,458.60
544+50.00	82.72	77.65	53.83	49.42	47,969.13	21,482.31	26,486.83
544+75.00	82.79	76.63	51.05	48.55	48,045.76	21,530.86	26,514.90
545+00.00	85.22	77.78	41.72	42.95	48,123.54	21,573.81	26,549.74
545+12.93	84.11	40.55	44.17	20.57	48,164.10	21,594.38	26,569.72
545+13.37	84.2	1.37	43.92	0.72	48,165.46	21,595.09	26,570.37
545+25.00	86.36	36.73	35.3	17.06	48,202.20	21,612.15	26,590.05
545+50.00	89.01	81.19	39.84	34.79	48,283.39	21,646.94	26,636.45
545+75.00	90.9	83.29	34.79	34.55	48,366.68	21,681.49	26,685.19
546+00.00	90.55	84	29	29.53	48,450.68	21,711.02	26,739.67
546+25.00	89.84	83.51	19.41	22.41	48,534.20	21,733.43	26,800.77
546+50.00	88.88	82.74	2.98	10.37	48,616.94	21,743.80	26,873.14
546+75.00	85.89	80.91	1.95	2.28	48,697.85	21,746.08	26,951.77



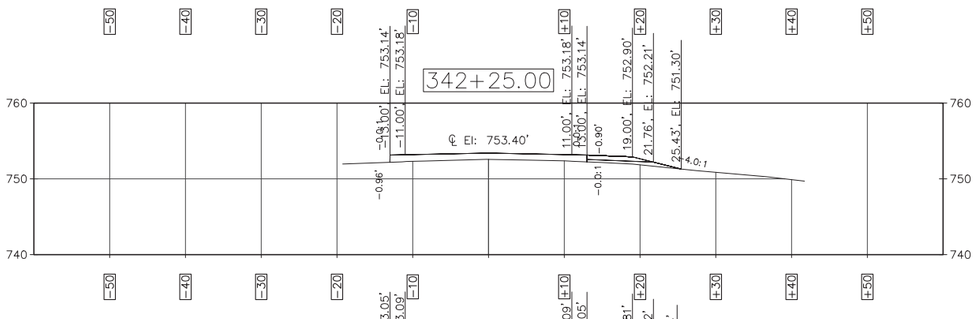
Total Volume at Station 342+75.00	
Cut Area (SF)	0.00
Fill Area (SF)	27.30
Cut Volume (CY)	0
Fill Volume (CY)	25



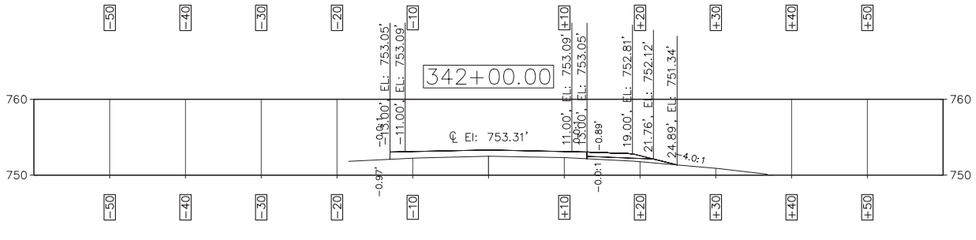
Total Volume at Station 342+50.00	
Cut Area (SF)	0.00
Fill Area (SF)	26.14
Cut Volume (CY)	0
Fill Volume (CY)	23



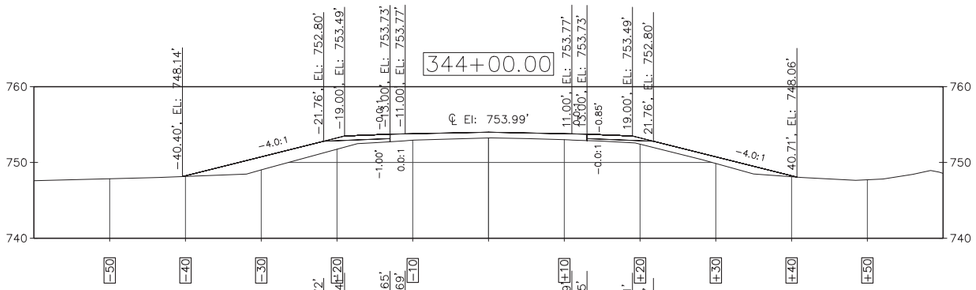
Total Volume at Station 342+26.00	
Cut Area (SF)	0.00
Fill Area (SF)	26.49
Cut Volume (CY)	0
Fill Volume (CY)	1



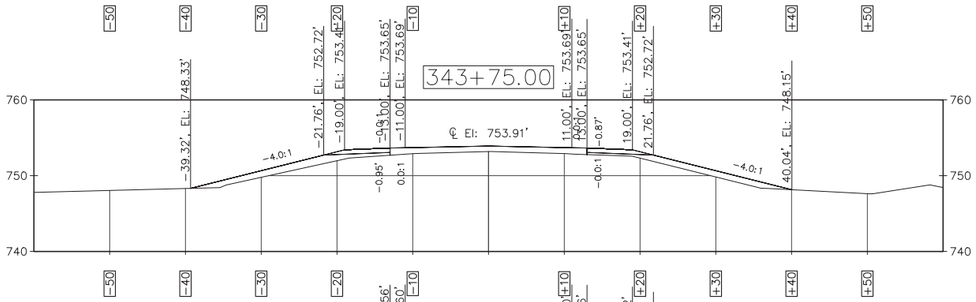
Total Volume at Station 342+25.00	
Cut Area (SF)	0.00
Fill Area (SF)	26.50
Cut Volume (CY)	0
Fill Volume (CY)	24



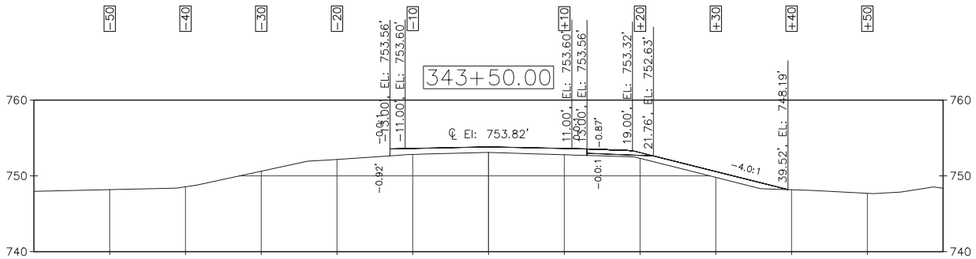
Total Volume at Station 342+00.00	
Cut Area (SF)	0.00
Fill Area (SF)	26.04
Cut Volume (CY)	0
Fill Volume (CY)	0



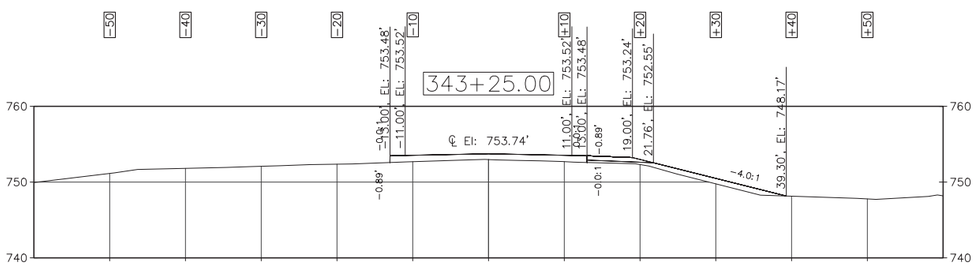
Total Volume at Station 344+00.00	
Cut Area (SF)	0.00
Fill Area (SF)	69.28
Cut Volume (CY)	0
Fill Volume (CY)	58



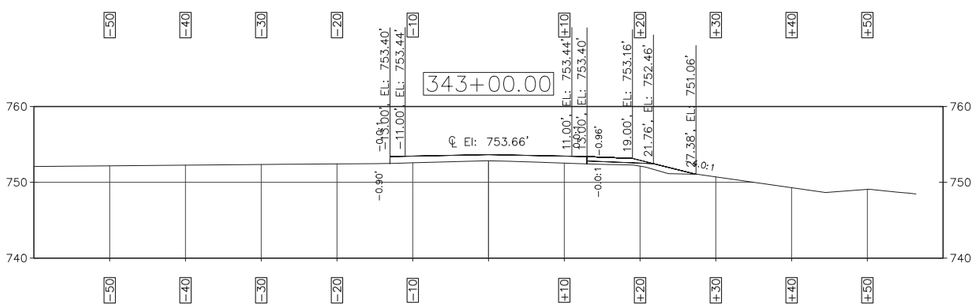
Total Volume at Station 343+75.00	
Cut Area (SF)	0.00
Fill Area (SF)	56.36
Cut Volume (CY)	0
Fill Volume (CY)	44



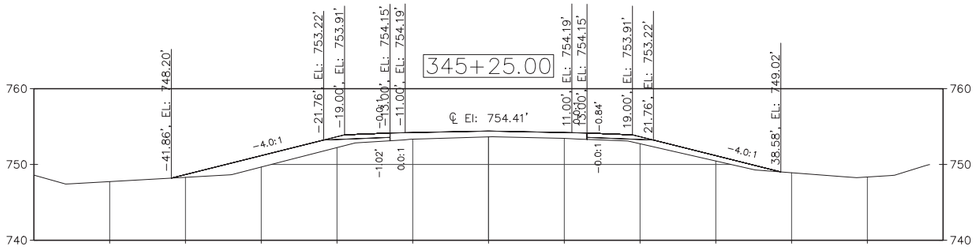
Total Volume at Station 343+50.00	
Cut Area (SF)	0.00
Fill Area (SF)	39.20
Cut Volume (CY)	2
Fill Volume (CY)	34



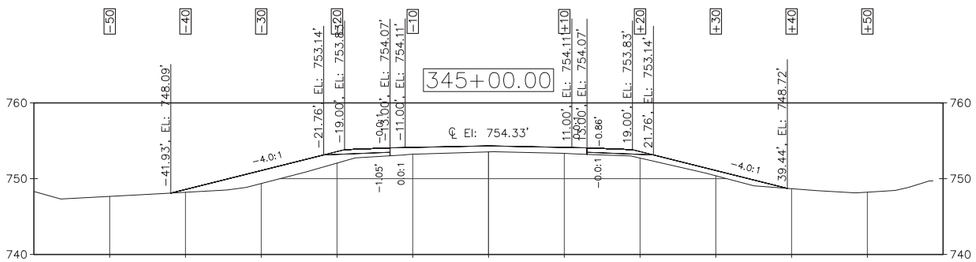
Total Volume at Station 343+25.00	
Cut Area (SF)	4.45
Fill Area (SF)	34.89
Cut Volume (CY)	4
Fill Volume (CY)	30



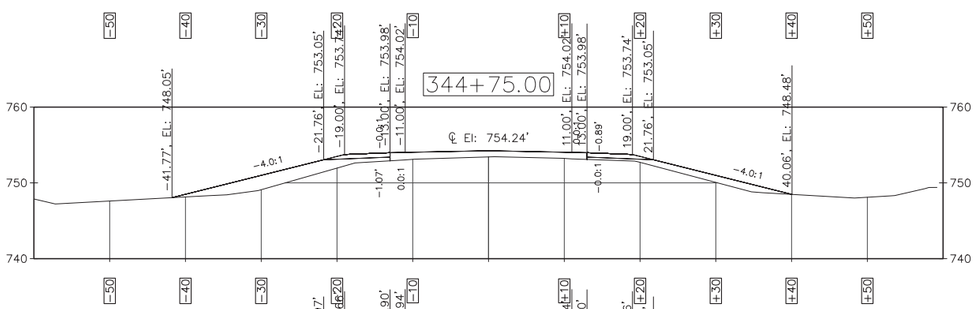
Total Volume at Station 343+00.00	
Cut Area (SF)	3.50
Fill Area (SF)	28.95
Cut Volume (CY)	2
Fill Volume (CY)	26



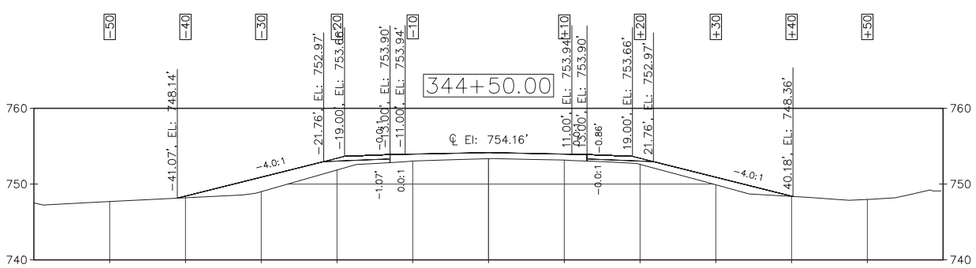
Total Volume at Station 345+25.00	
Cut Area (SF)	0.00
Fill Area (SF)	65.81
Cut Volume (CY)	0
Fill Volume (CY)	63



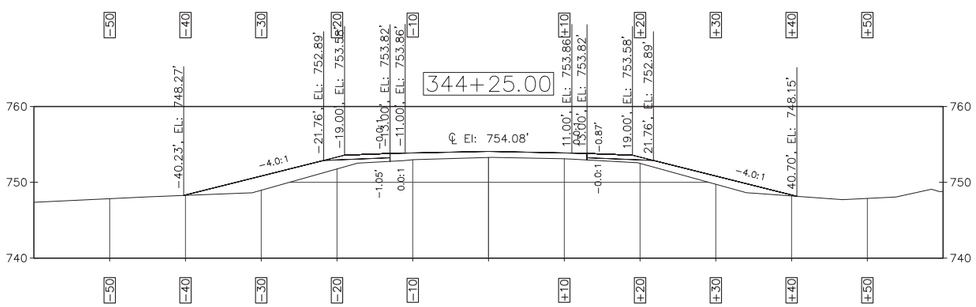
Total Volume at Station 345+00.00	
Cut Area (SF)	0.00
Fill Area (SF)	69.62
Cut Volume (CY)	0
Fill Volume (CY)	67



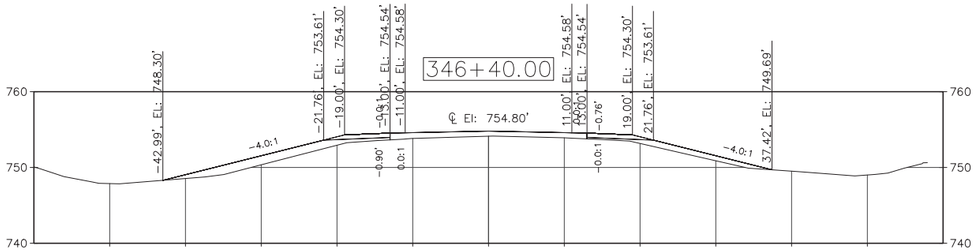
Total Volume at Station 344+75.00	
Cut Area (SF)	0.00
Fill Area (SF)	74.05
Cut Volume (CY)	0
Fill Volume (CY)	69



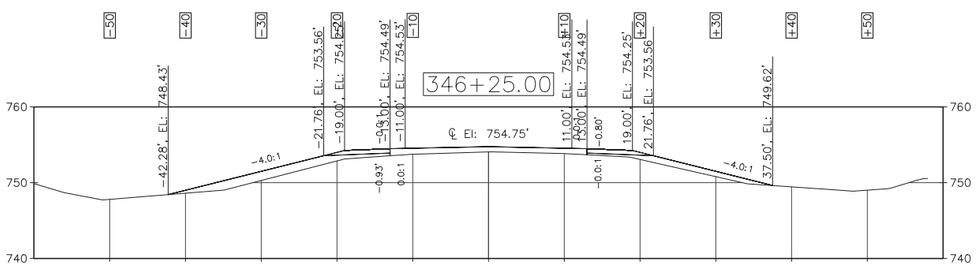
Total Volume at Station 344+50.00	
Cut Area (SF)	0.00
Fill Area (SF)	74.02
Cut Volume (CY)	0
Fill Volume (CY)	68



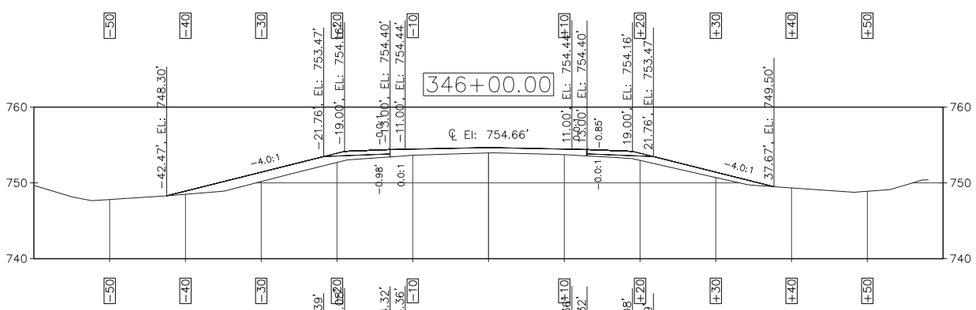
Total Volume at Station 344+25.00	
Cut Area (SF)	0.00
Fill Area (SF)	73.92
Cut Volume (CY)	0
Fill Volume (CY)	66



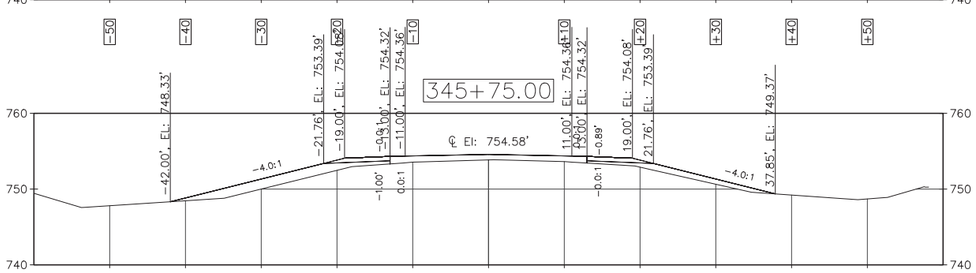
Total Volume at Station 346+40.00	
Cut Area (SF)	0.00
Fill Area (SF)	56.79
Cut Volume (CY)	0
Fill Volume (CY)	32



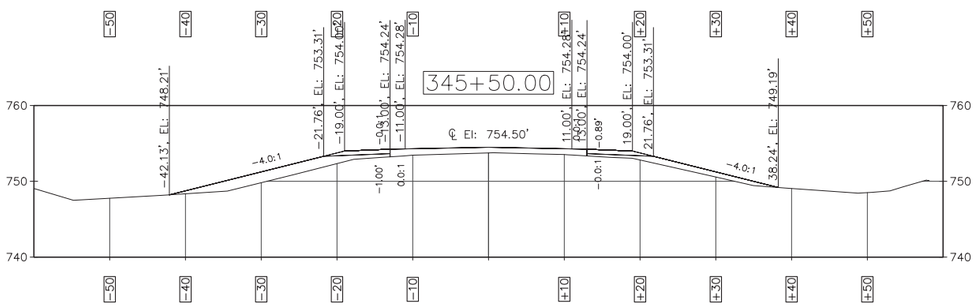
Total Volume at Station 346+25.00	
Cut Area (SF)	0.00
Fill Area (SF)	58.07
Cut Volume (CY)	0
Fill Volume (CY)	55



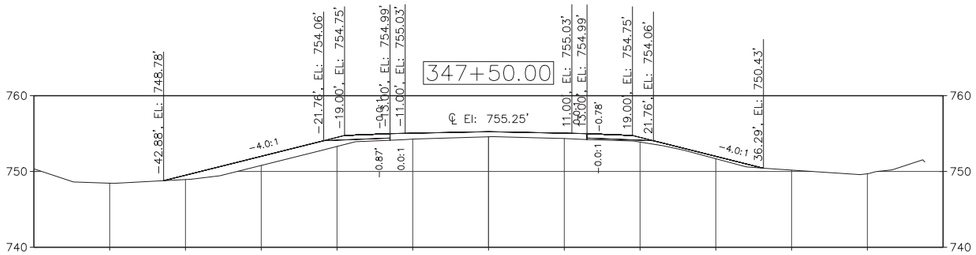
Total Volume at Station 346+00.00	
Cut Area (SF)	0.00
Fill Area (SF)	60.44
Cut Volume (CY)	0
Fill Volume (CY)	57



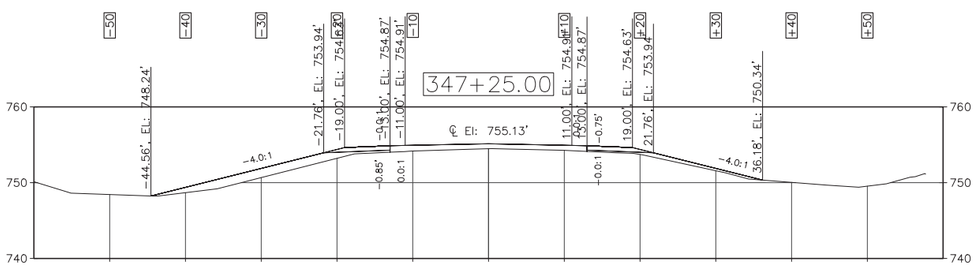
Total Volume at Station 345+75.00	
Cut Area (SF)	0.00
Fill Area (SF)	62.66
Cut Volume (CY)	0
Fill Volume (CY)	59



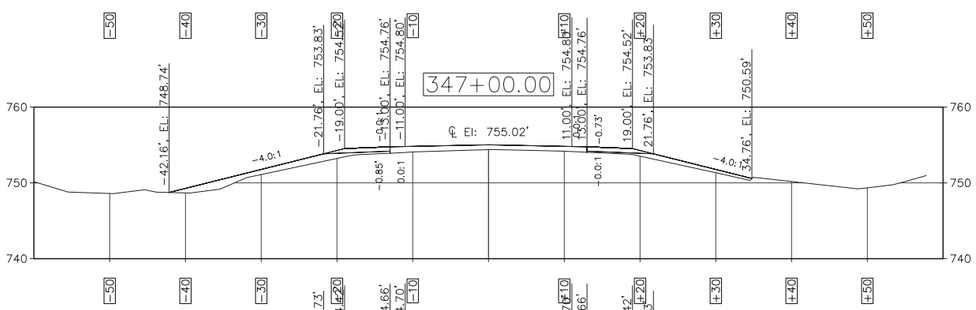
Total Volume at Station 345+50.00	
Cut Area (SF)	0.00
Fill Area (SF)	64.80
Cut Volume (CY)	0
Fill Volume (CY)	60



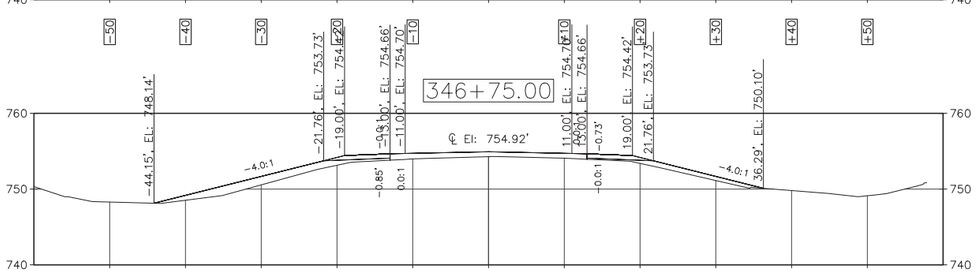
Total Volume at Station 347+50.00	
Cut Area (SF)	0.00
Fill Area (SF)	50.97
Cut Volume (CY)	0
Fill Volume (CY)	48



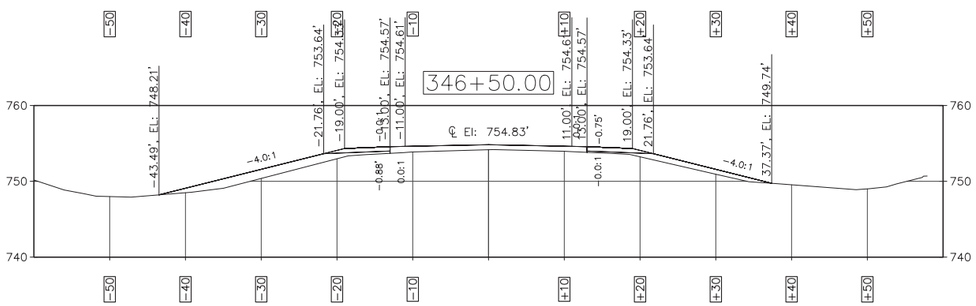
Total Volume at Station 347+25.00	
Cut Area (SF)	0.00
Fill Area (SF)	52.47
Cut Volume (CY)	0
Fill Volume (CY)	46



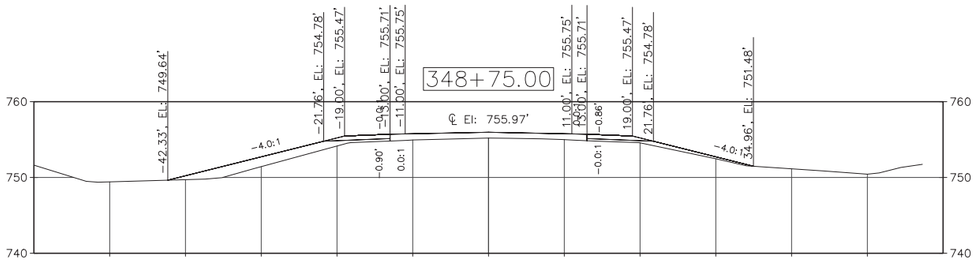
Total Volume at Station 347+00.00	
Cut Area (SF)	0.00
Fill Area (SF)	46.42
Cut Volume (CY)	0
Fill Volume (CY)	46



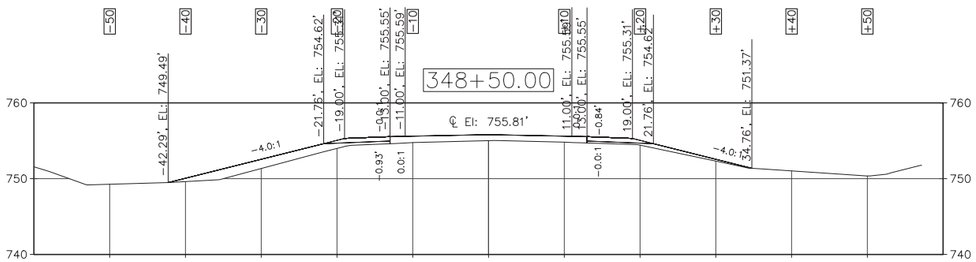
Total Volume at Station 346+75.00	
Cut Area (SF)	0.00
Fill Area (SF)	52.04
Cut Volume (CY)	0
Fill Volume (CY)	50



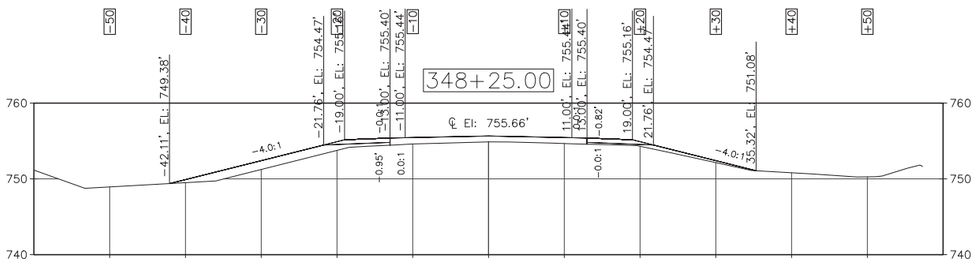
Total Volume at Station 346+50.00	
Cut Area (SF)	0.00
Fill Area (SF)	55.99
Cut Volume (CY)	0
Fill Volume (CY)	21



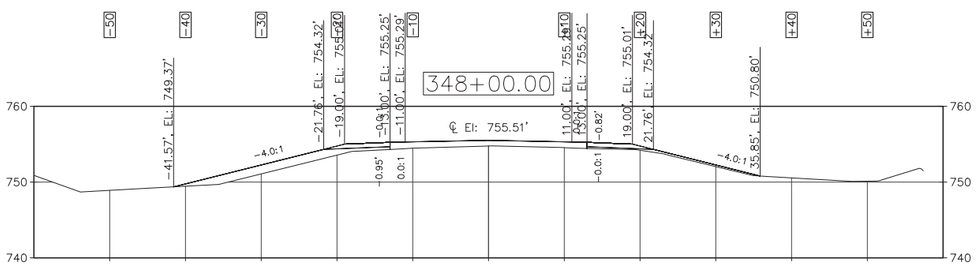
Total Volume at Station 348+75.00	
Cut Area (SF)	0.00
Fill Area (SF)	54.26
Cut Volume (CY)	0
Fill Volume (CY)	49



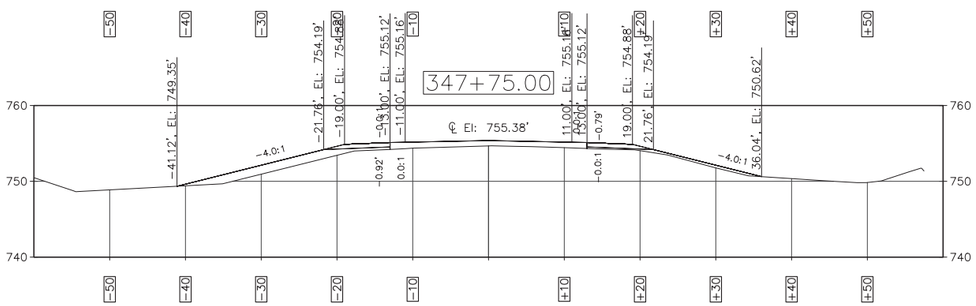
Total Volume at Station 348+50.00	
Cut Area (SF)	0.00
Fill Area (SF)	52.58
Cut Volume (CY)	0
Fill Volume (CY)	48



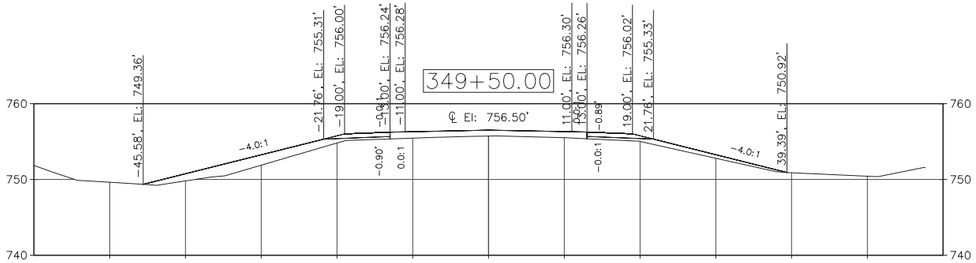
Total Volume at Station 348+25.00	
Cut Area (SF)	0.00
Fill Area (SF)	51.85
Cut Volume (CY)	0
Fill Volume (CY)	47



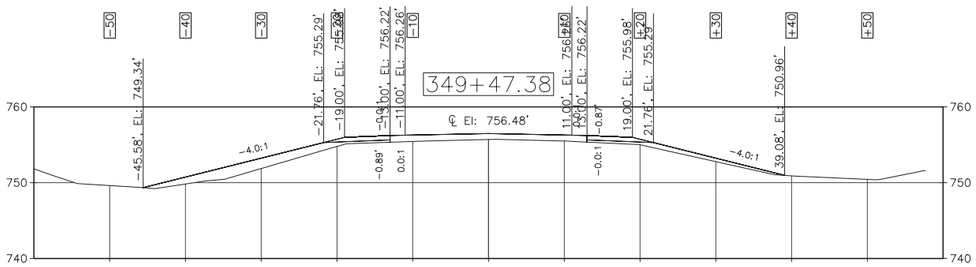
Total Volume at Station 348+00.00	
Cut Area (SF)	0.00
Fill Area (SF)	50.25
Cut Volume (CY)	0
Fill Volume (CY)	46



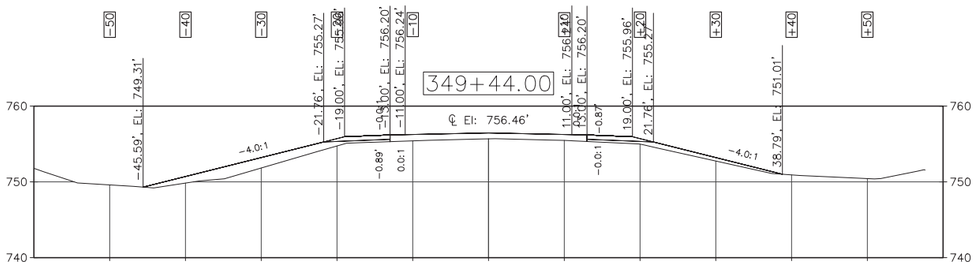
Total Volume at Station 347+75.00	
Cut Area (SF)	0.00
Fill Area (SF)	49.66
Cut Volume (CY)	0
Fill Volume (CY)	47



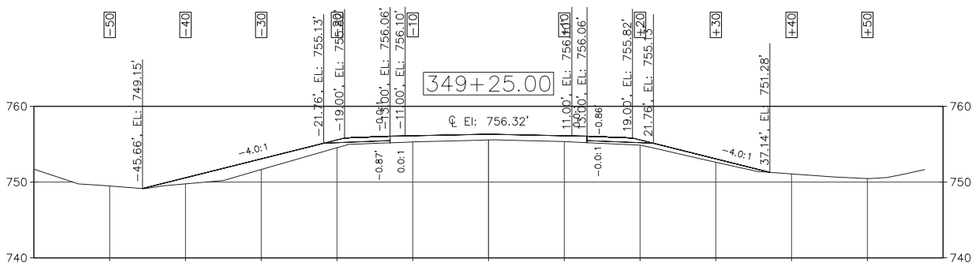
Total Volume at Station 349+50.00	
Cut Area (SF)	0.00
Fill Area (SF)	62.50
Cut Volume (CY)	0
Fill Volume (CY)	6



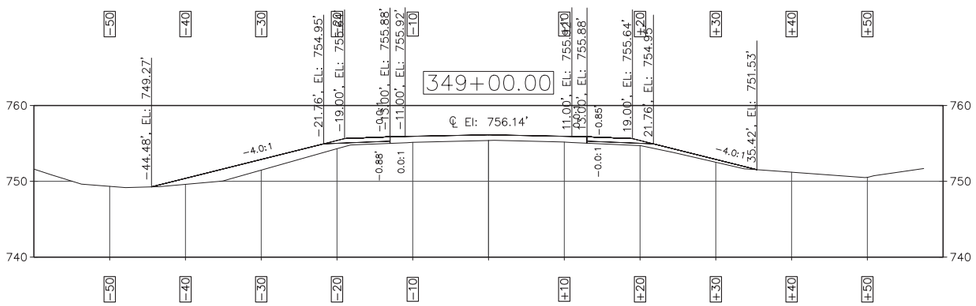
Total Volume at Station 349+47.38	
Cut Area (SF)	0.00
Fill Area (SF)	61.71
Cut Volume (CY)	0
Fill Volume (CY)	8



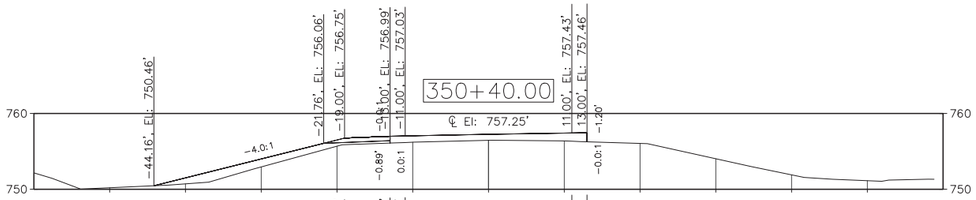
Total Volume at Station 349+44.00	
Cut Area (SF)	0.00
Fill Area (SF)	61.30
Cut Volume (CY)	0
Fill Volume (CY)	43



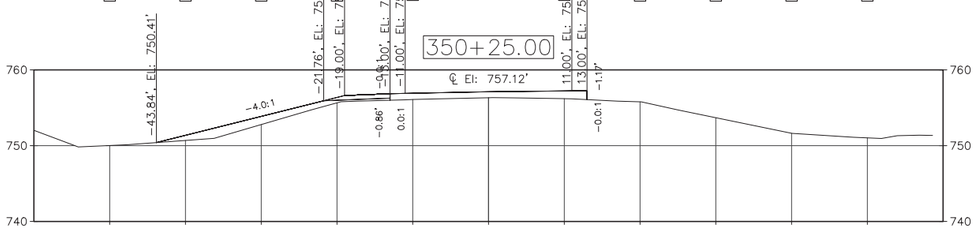
Total Volume at Station 349+25.00	
Cut Area (SF)	0.00
Fill Area (SF)	59.89
Cut Volume (CY)	0
Fill Volume (CY)	55



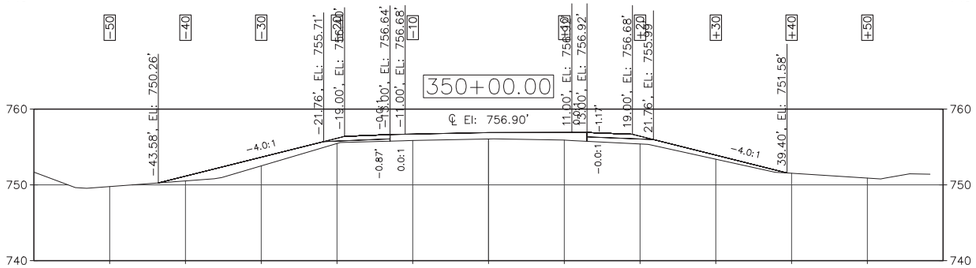
Total Volume at Station 349+00.00	
Cut Area (SF)	0.00
Fill Area (SF)	58.10
Cut Volume (CY)	0
Fill Volume (CY)	52



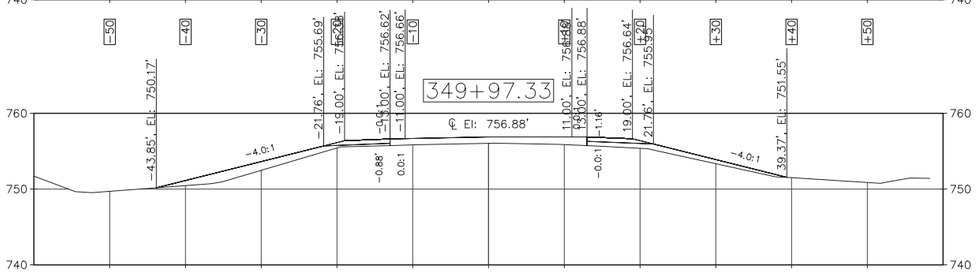
Total Volume at Station 350+40.00	
Cut Area (SF)	7.27
Fill Area (SF)	47.52
Cut Volume (CY)	4
Fill Volume (CY)	26



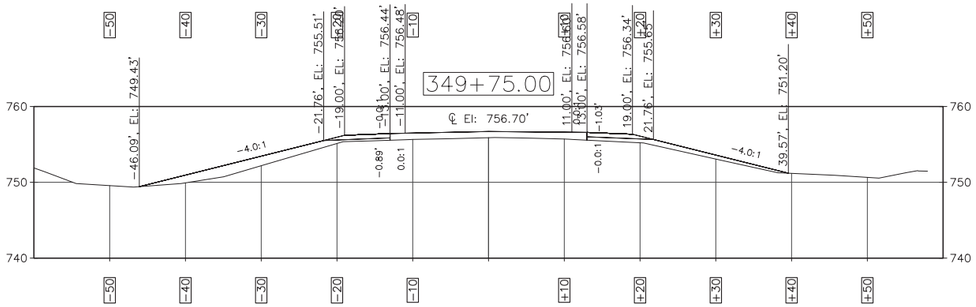
Total Volume at Station 350+25.00	
Cut Area (SF)	8.28
Fill Area (SF)	45.50
Cut Volume (CY)	4
Fill Volume (CY)	49



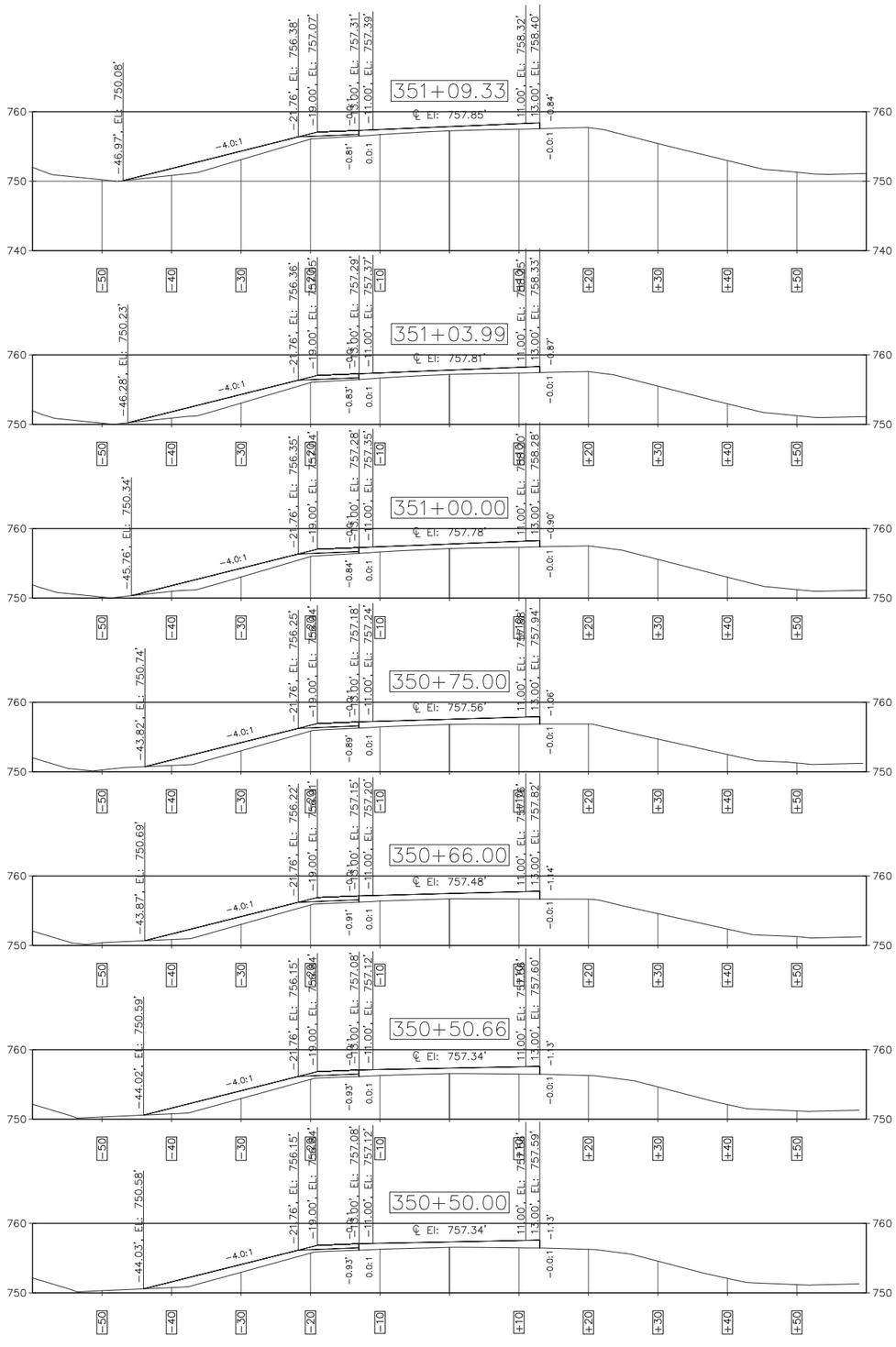
Total Volume at Station 350+00.00	
Cut Area (SF)	0.00
Fill Area (SF)	61.33
Cut Volume (CY)	0
Fill Volume (CY)	6



Total Volume at Station 349+97.33	
Cut Area (SF)	0.00
Fill Area (SF)	61.61
Cut Volume (CY)	0
Fill Volume (CY)	52



Total Volume at Station 349+75.00	
Cut Area (SF)	0.00
Fill Area (SF)	63.76
Cut Volume (CY)	0
Fill Volume (CY)	58



Total Volume at Station 351+09.33	
Cut Area (SF)	0.00
Fill Area (SF)	46.60
Cut Volume (CY)	0
Fill Volume (CY)	9

Total Volume at Station 351+03.99	
Cut Area (SF)	0.00
Fill Area (SF)	46.71
Cut Volume (CY)	0
Fill Volume (CY)	7

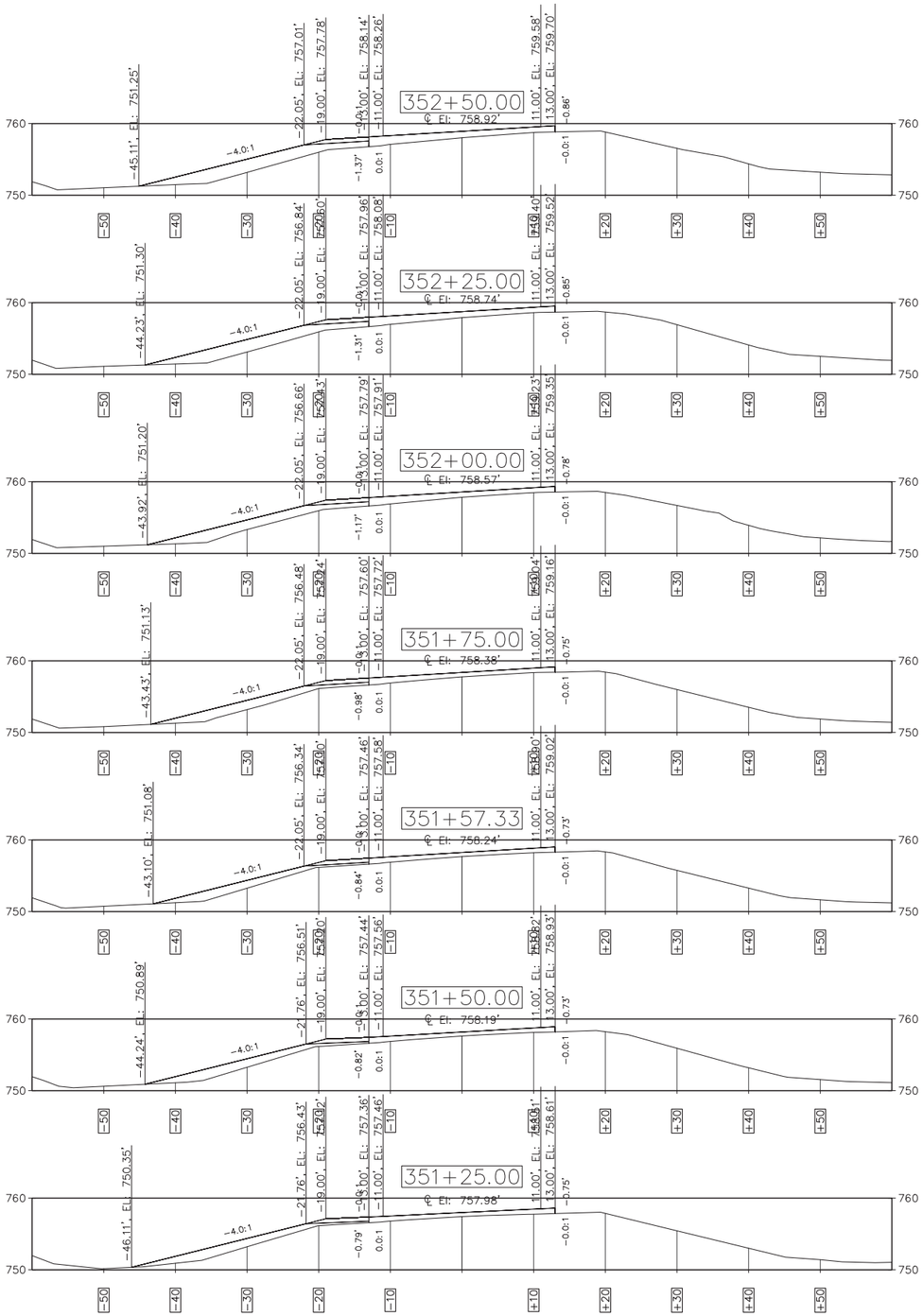
Total Volume at Station 351+00.00	
Cut Area (SF)	0.00
Fill Area (SF)	46.86
Cut Volume (CY)	0
Fill Volume (CY)	44

Total Volume at Station 350+75.00	
Cut Area (SF)	0.00
Fill Area (SF)	47.87
Cut Volume (CY)	0
Fill Volume (CY)	16

Total Volume at Station 350+66.00	
Cut Area (SF)	0.69
Fill Area (SF)	48.28
Cut Volume (CY)	2
Fill Volume (CY)	28

Total Volume at Station 350+50.66	
Cut Area (SF)	4.84
Fill Area (SF)	48.75
Cut Volume (CY)	0
Fill Volume (CY)	1

Total Volume at Station 350+50.00	
Cut Area (SF)	5.03
Fill Area (SF)	48.70
Cut Volume (CY)	2
Fill Volume (CY)	18



Total Volume at Station 352+50.00	
Cut Area (SF)	0.00
Fill Area (SF)	67.91
Cut Volume (CY)	0
Fill Volume (CY)	61

Total Volume at Station 352+25.00	
Cut Area (SF)	0.00
Fill Area (SF)	63.63
Cut Volume (CY)	0
Fill Volume (CY)	55

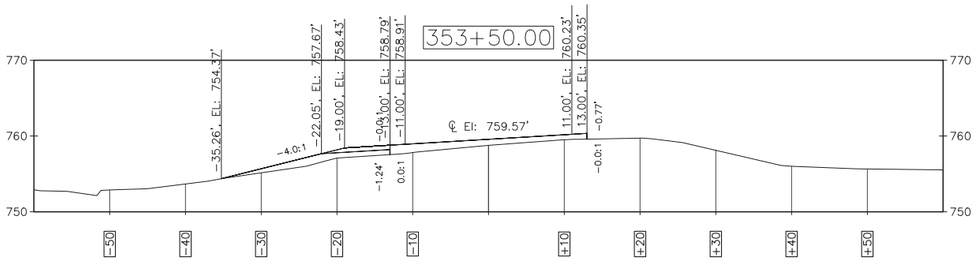
Total Volume at Station 352+00.00	
Cut Area (SF)	0.00
Fill Area (SF)	54.37
Cut Volume (CY)	0
Fill Volume (CY)	46

Total Volume at Station 351+75.00	
Cut Area (SF)	0.00
Fill Area (SF)	45.79
Cut Volume (CY)	0
Fill Volume (CY)	28

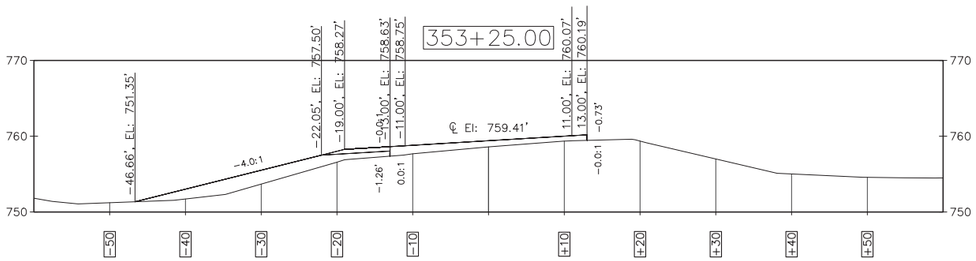
Total Volume at Station 351+57.33	
Cut Area (SF)	0.03
Fill Area (SF)	39.27
Cut Volume (CY)	0
Fill Volume (CY)	11

Total Volume at Station 351+50.00	
Cut Area (SF)	0.00
Fill Area (SF)	42.60
Cut Volume (CY)	0
Fill Volume (CY)	40

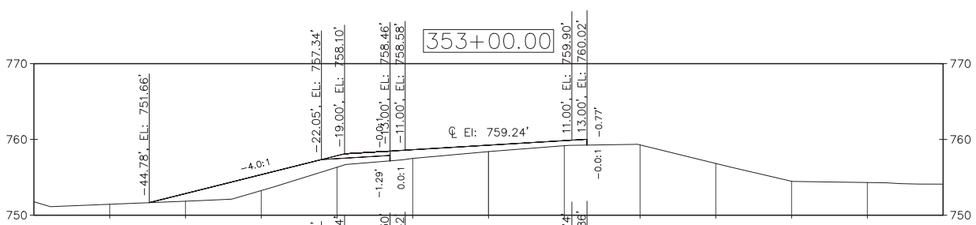
Total Volume at Station 351+25.00	
Cut Area (SF)	0.00
Fill Area (SF)	43.85
Cut Volume (CY)	0
Fill Volume (CY)	26



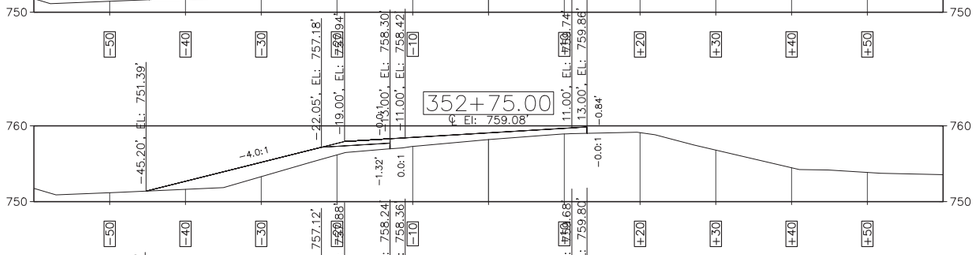
Total Volume at Station 353+50.00	
Cut Area (SF)	7.09
Fill Area (SF)	38.02
Cut Volume (CY)	3
Fill Volume (CY)	48



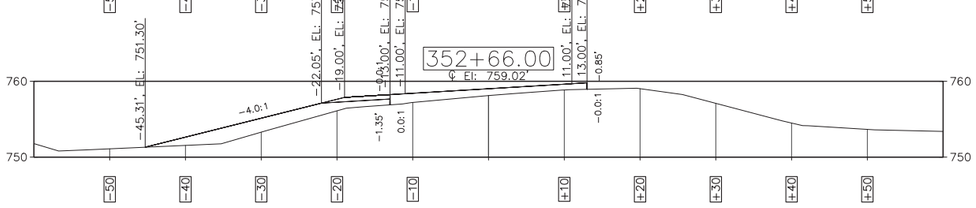
Total Volume at Station 353+25.00	
Cut Area (SF)	0.00
Fill Area (SF)	66.32
Cut Volume (CY)	0
Fill Volume (CY)	62



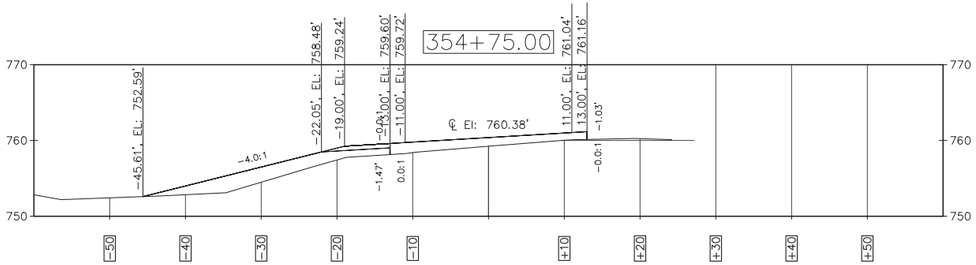
Total Volume at Station 353+00.00	
Cut Area (SF)	0.00
Fill Area (SF)	67.76
Cut Volume (CY)	0
Fill Volume (CY)	63



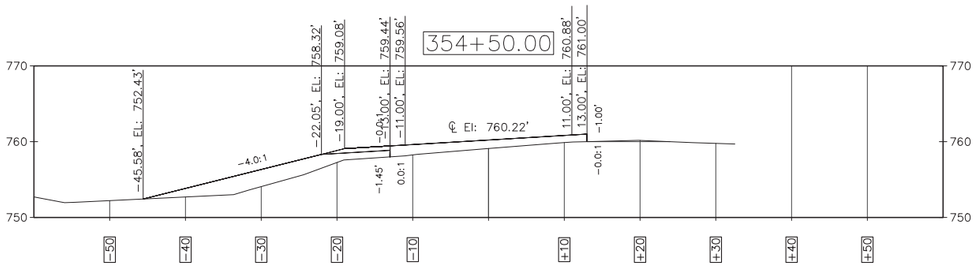
Total Volume at Station 352+75.00	
Cut Area (SF)	0.00
Fill Area (SF)	67.79
Cut Volume (CY)	0
Fill Volume (CY)	23



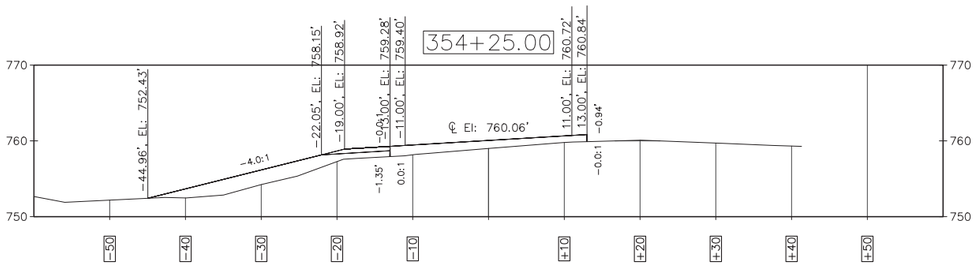
Total Volume at Station 352+66.00	
Cut Area (SF)	0.00
Fill Area (SF)	67.98
Cut Volume (CY)	0
Fill Volume (CY)	40



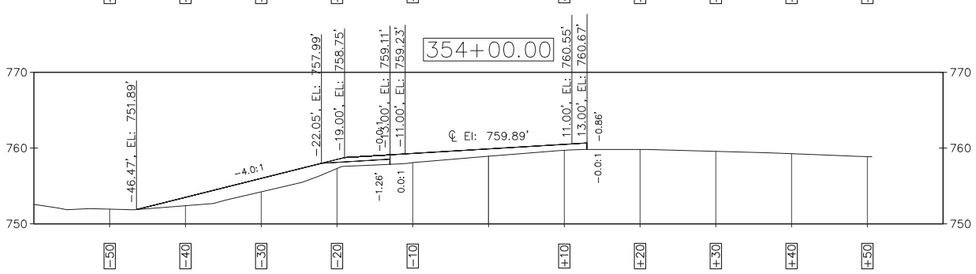
Total Volume at Station 354+75.00	
Cut Area (SF)	0.00
Fill Area (SF)	76.26
Cut Volume (CY)	0
Fill Volume (CY)	72



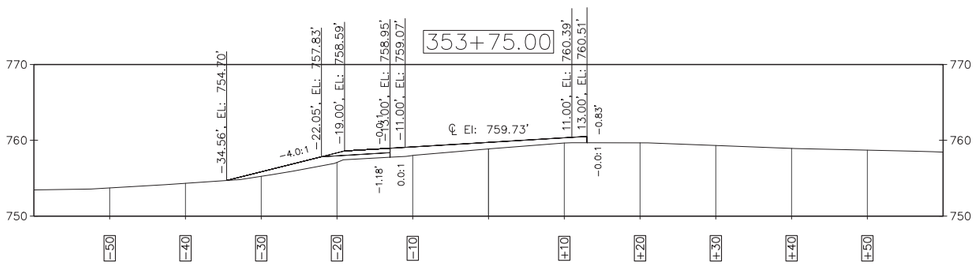
Total Volume at Station 354+50.00	
Cut Area (SF)	0.00
Fill Area (SF)	78.79
Cut Volume (CY)	0
Fill Volume (CY)	70



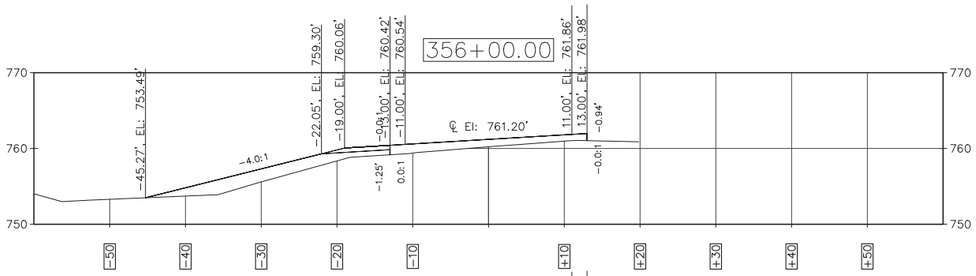
Total Volume at Station 354+25.00	
Cut Area (SF)	0.00
Fill Area (SF)	72.27
Cut Volume (CY)	0
Fill Volume (CY)	64



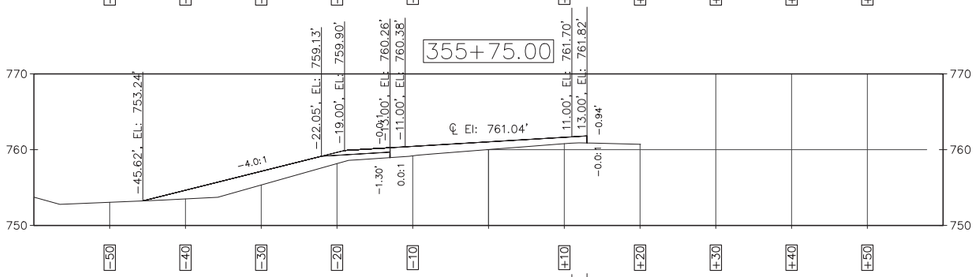
Total Volume at Station 354+00.00	
Cut Area (SF)	0.00
Fill Area (SF)	66.63
Cut Volume (CY)	6
Fill Volume (CY)	49



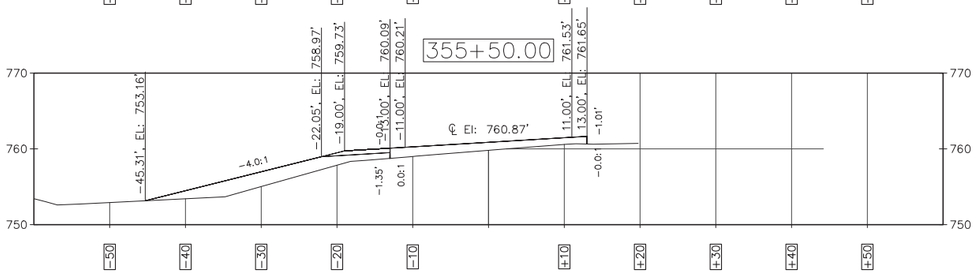
Total Volume at Station 353+75.00	
Cut Area (SF)	13.33
Fill Area (SF)	38.76
Cut Volume (CY)	9
Fill Volume (CY)	36



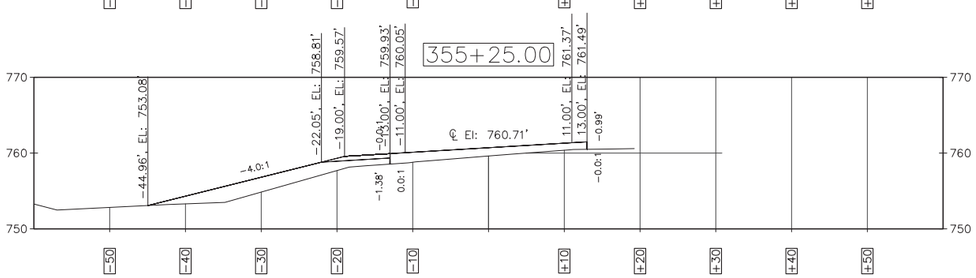
Total Volume at Station 356+00.00	
Cut Area (SF)	0.00
Fill Area (SF)	66.77
Cut Volume (CY)	0
Fill Volume (CY)	63



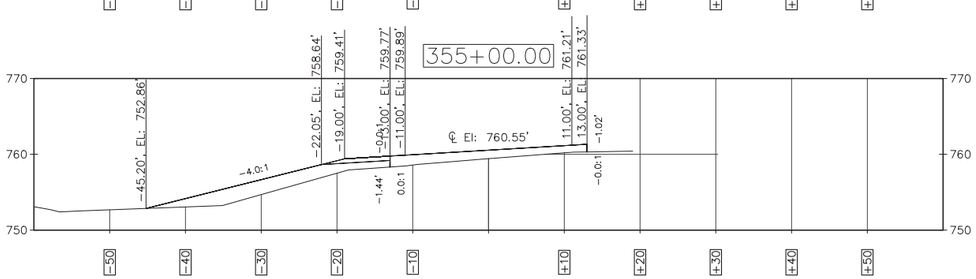
Total Volume at Station 355+75.00	
Cut Area (SF)	0.00
Fill Area (SF)	69.22
Cut Volume (CY)	0
Fill Volume (CY)	66



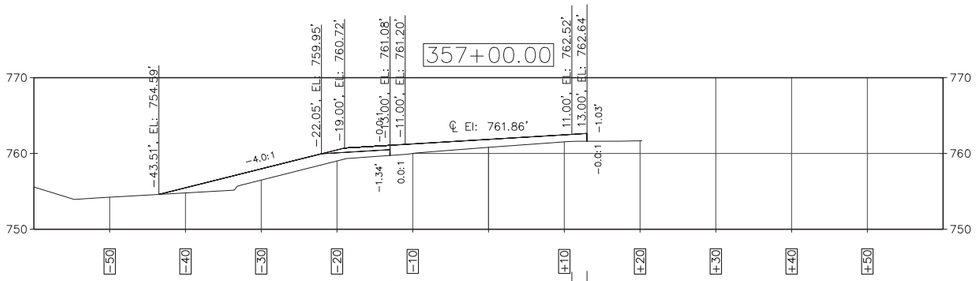
Total Volume at Station 355+50.00	
Cut Area (SF)	0.00
Fill Area (SF)	72.47
Cut Volume (CY)	0
Fill Volume (CY)	67



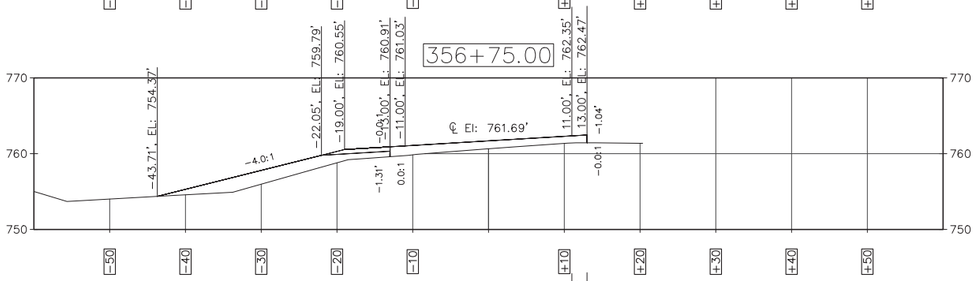
Total Volume at Station 355+25.00	
Cut Area (SF)	0.00
Fill Area (SF)	73.13
Cut Volume (CY)	0
Fill Volume (CY)	69



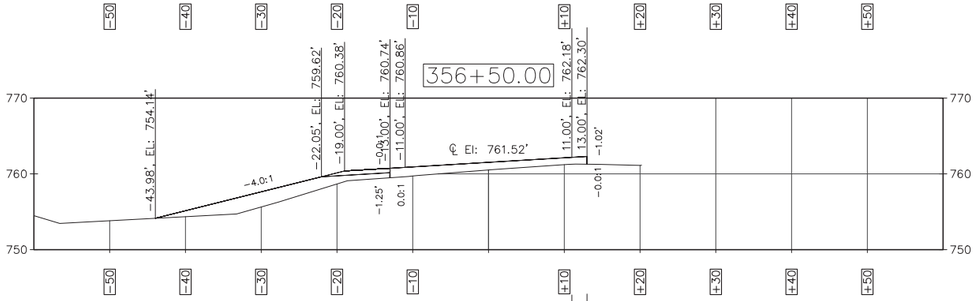
Total Volume at Station 355+00.00	
Cut Area (SF)	0.00
Fill Area (SF)	75.35
Cut Volume (CY)	0
Fill Volume (CY)	70



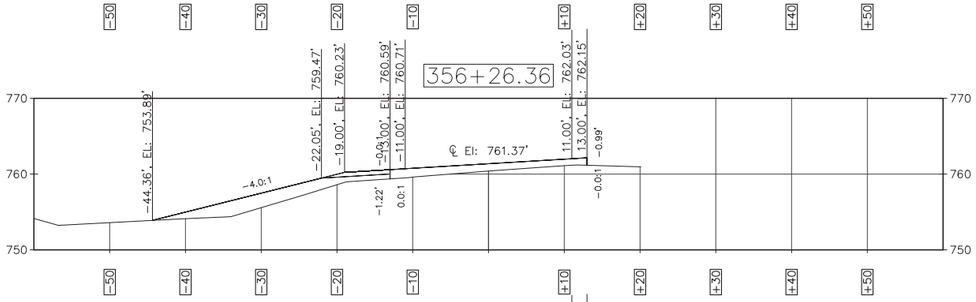
Total Volume at Station 357+00.00	
Cut Area (SF)	0.00
Fill Area (SF)	63.01
Cut Volume (CY)	0
Fill Volume (CY)	60



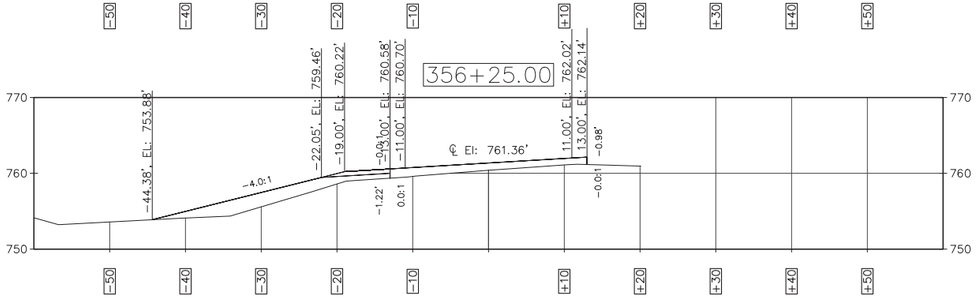
Total Volume at Station 356+75.00	
Cut Area (SF)	0.00
Fill Area (SF)	66.47
Cut Volume (CY)	0
Fill Volume (CY)	62



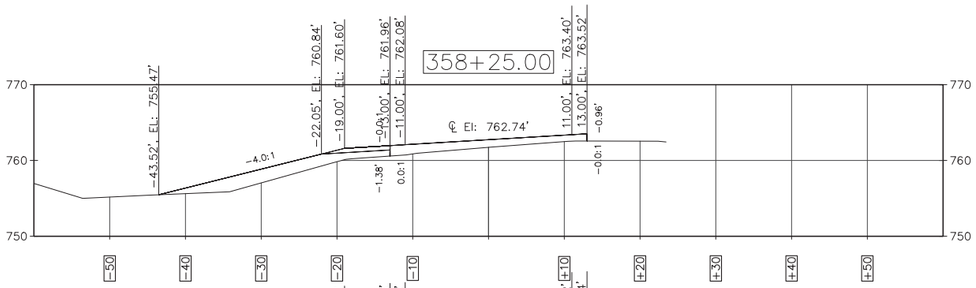
Total Volume at Station 356+50.00	
Cut Area (SF)	0.00
Fill Area (SF)	67.41
Cut Volume (CY)	0
Fill Volume (CY)	58



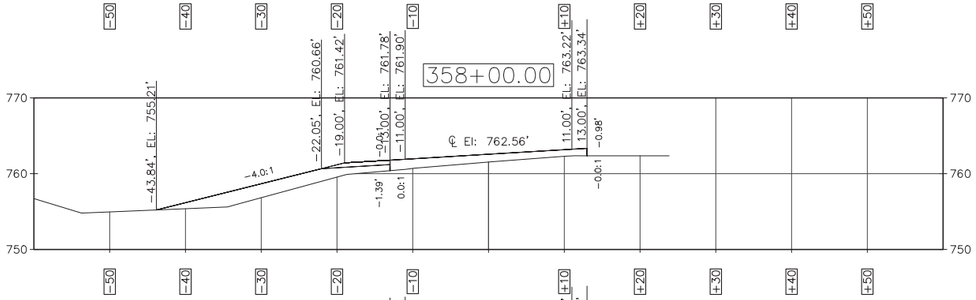
Total Volume at Station 356+26.36	
Cut Area (SF)	0.00
Fill Area (SF)	65.83
Cut Volume (CY)	0
Fill Volume (CY)	3



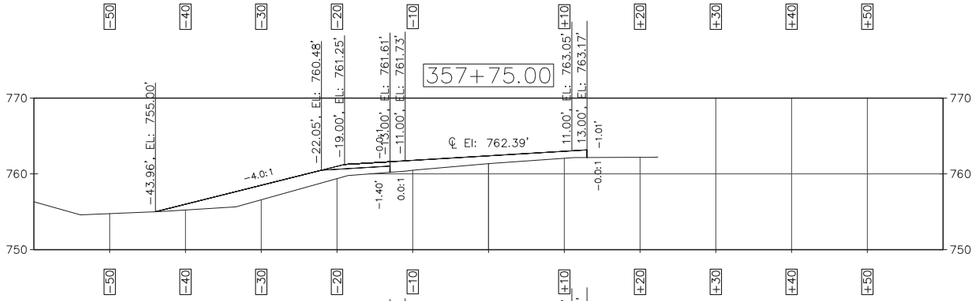
Total Volume at Station 356+25.00	
Cut Area (SF)	0.00
Fill Area (SF)	65.72
Cut Volume (CY)	0
Fill Volume (CY)	61



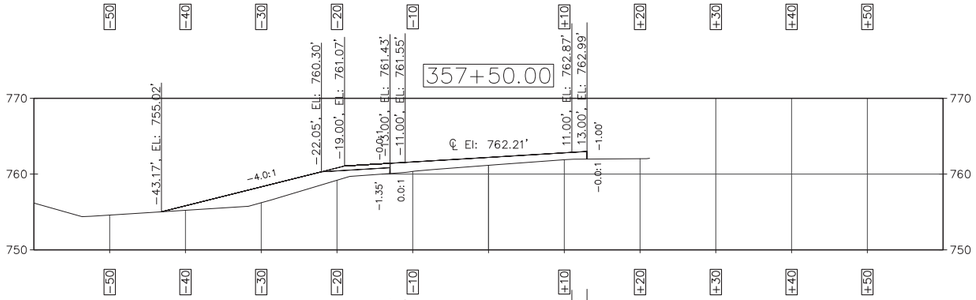
Total Volume at Station 358+25.00	
Cut Area (SF)	0.00
Fill Area (SF)	66.44
Cut Volume (CY)	0
Fill Volume (CY)	63



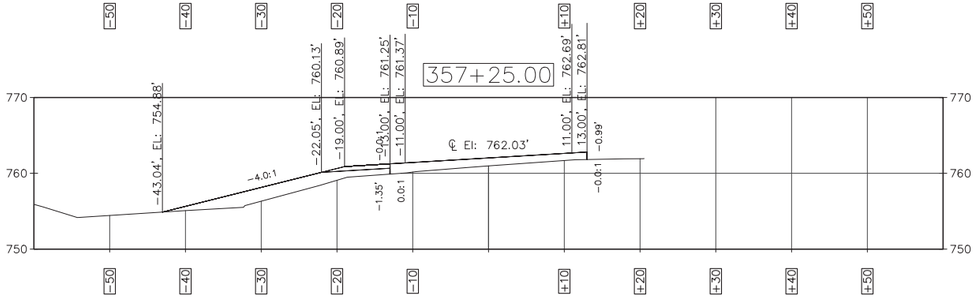
Total Volume at Station 358+00.00	
Cut Area (SF)	0.00
Fill Area (SF)	68.59
Cut Volume (CY)	0
Fill Volume (CY)	64



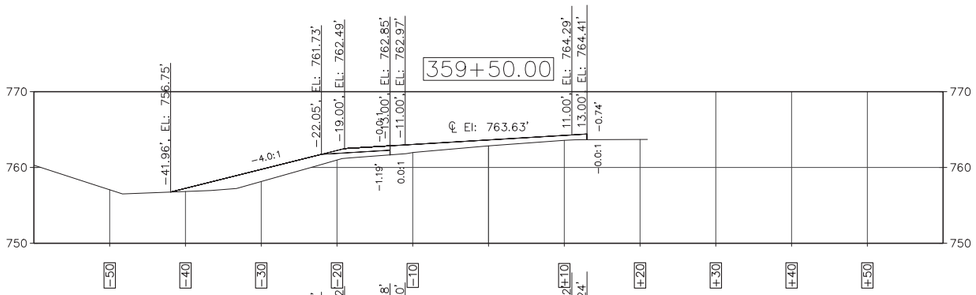
Total Volume at Station 357+75.00	
Cut Area (SF)	0.00
Fill Area (SF)	69.24
Cut Volume (CY)	0
Fill Volume (CY)	64



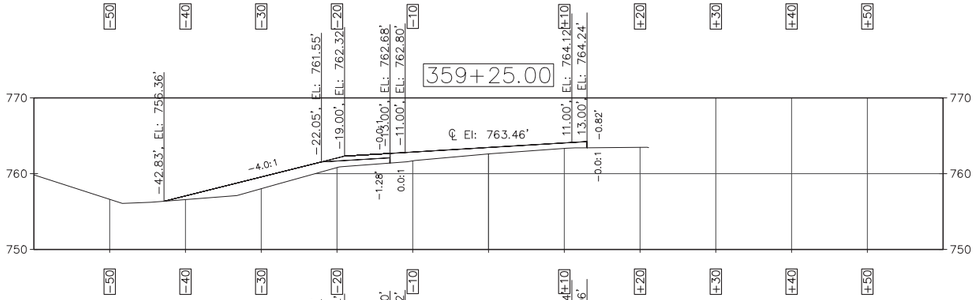
Total Volume at Station 357+50.00	
Cut Area (SF)	0.00
Fill Area (SF)	68.10
Cut Volume (CY)	0
Fill Volume (CY)	62



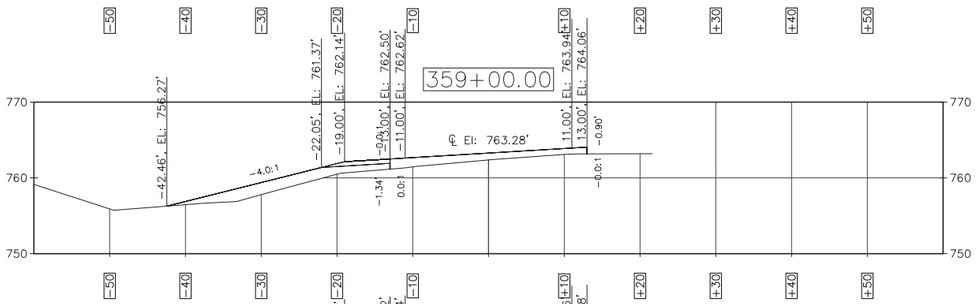
Total Volume at Station 357+25.00	
Cut Area (SF)	0.00
Fill Area (SF)	66.04
Cut Volume (CY)	0
Fill Volume (CY)	60



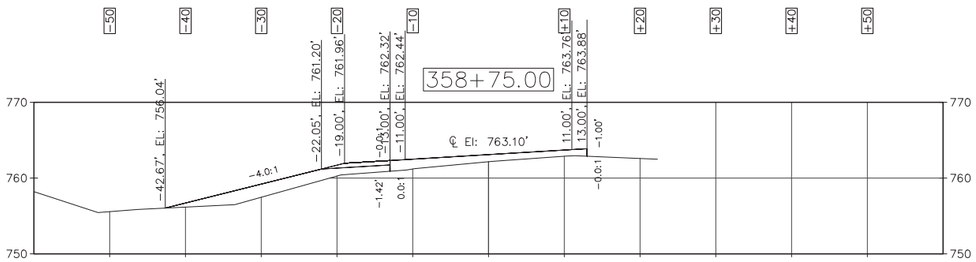
Total Volume at Station 359+50.00	
Cut Area (SF)	0.00
Fill Area (SF)	53.76
Cut Volume (CY)	0
Fill Volume (CY)	51



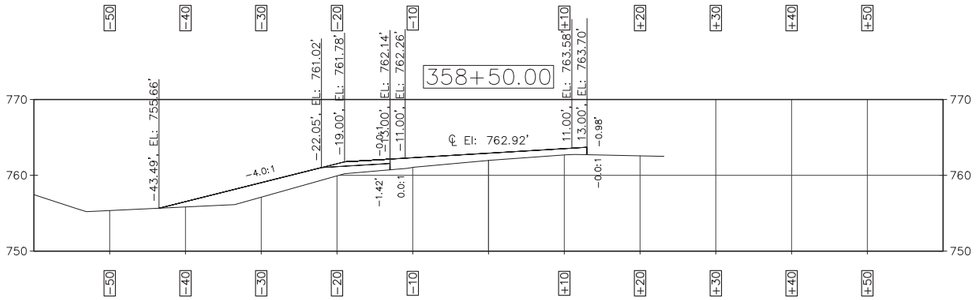
Total Volume at Station 359+25.00	
Cut Area (SF)	0.00
Fill Area (SF)	55.68
Cut Volume (CY)	0
Fill Volume (CY)	53



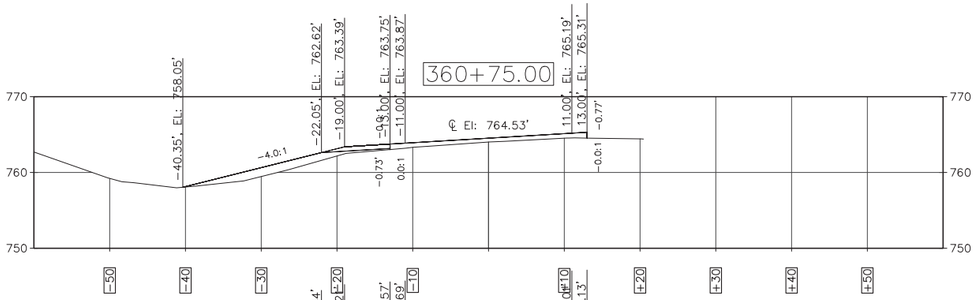
Total Volume at Station 359+00.00	
Cut Area (SF)	0.00
Fill Area (SF)	58.67
Cut Volume (CY)	0
Fill Volume (CY)	56



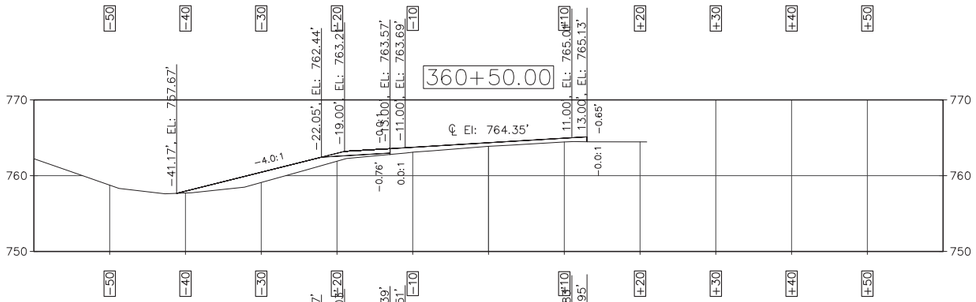
Total Volume at Station 358+75.00	
Cut Area (SF)	0.00
Fill Area (SF)	62.99
Cut Volume (CY)	0
Fill Volume (CY)	60



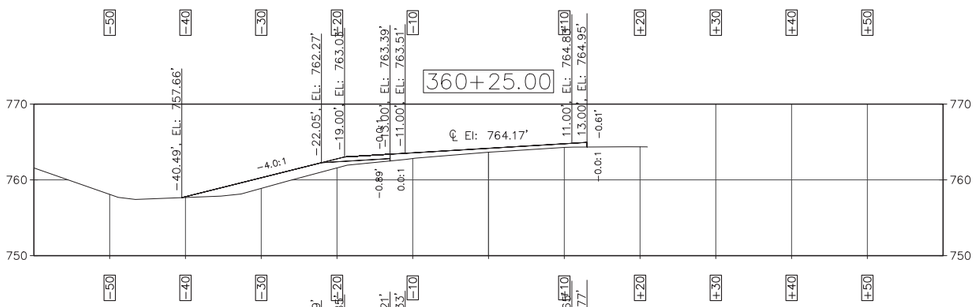
Total Volume at Station 358+50.00	
Cut Area (SF)	0.00
Fill Area (SF)	67.55
Cut Volume (CY)	0
Fill Volume (CY)	62



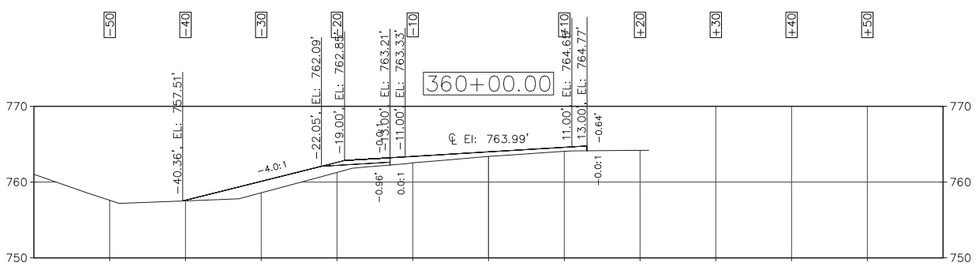
Total Volume at Station 360+75.00	
Cut Area (SF)	0.00
Fill Area (SF)	35.38
Cut Volume (CY)	0
Fill Volume (CY)	34



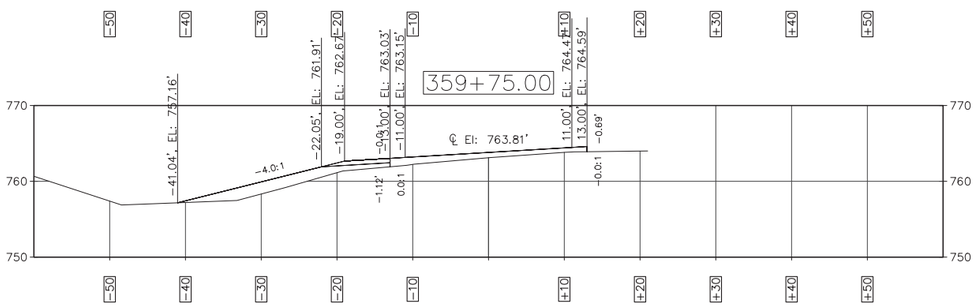
Total Volume at Station 360+50.00	
Cut Area (SF)	0.00
Fill Area (SF)	38.24
Cut Volume (CY)	0
Fill Volume (CY)	37



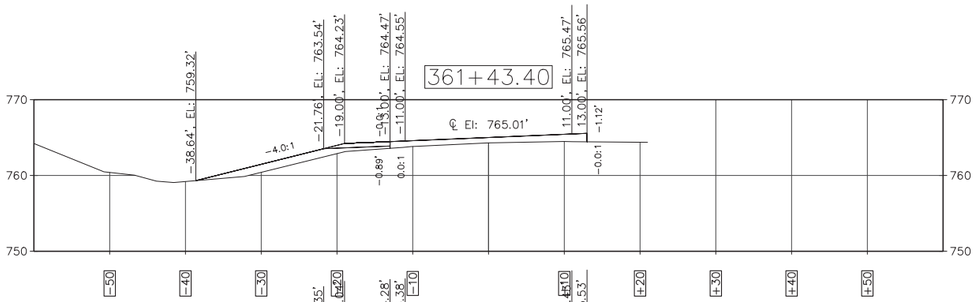
Total Volume at Station 360+25.00	
Cut Area (SF)	0.12
Fill Area (SF)	41.15
Cut Volume (CY)	0
Fill Volume (CY)	40



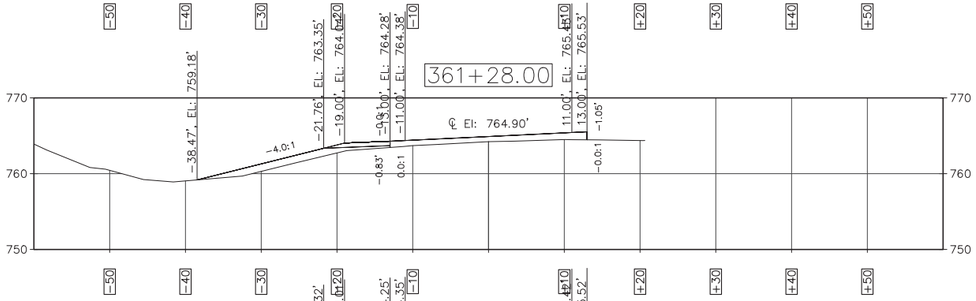
Total Volume at Station 360+00.00	
Cut Area (SF)	0.23
Fill Area (SF)	45.16
Cut Volume (CY)	0
Fill Volume (CY)	44



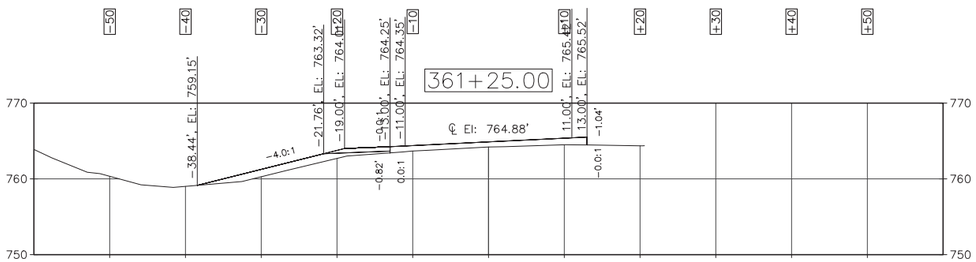
Total Volume at Station 359+75.00	
Cut Area (SF)	0.08
Fill Area (SF)	50.38
Cut Volume (CY)	0
Fill Volume (CY)	48



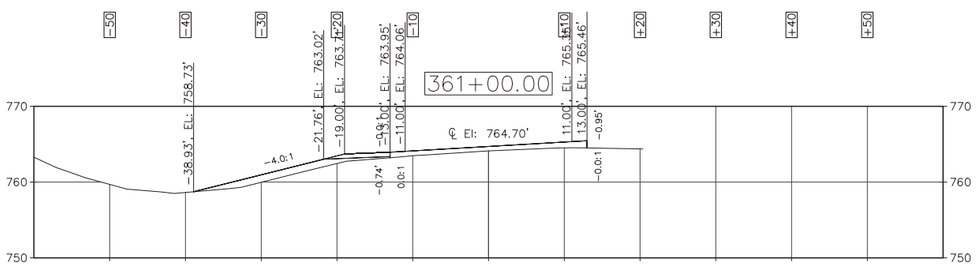
Total Volume at Station 361+43.40	
Cut Area (SF)	0.01
Fill Area (SF)	40.46
Cut Volume (CY)	0
Fill Volume (CY)	22



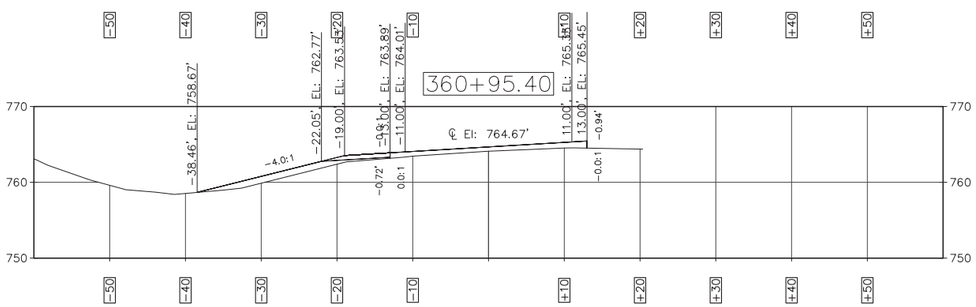
Total Volume at Station 361+28.00	
Cut Area (SF)	0.07
Fill Area (SF)	38.20
Cut Volume (CY)	0
Fill Volume (CY)	4



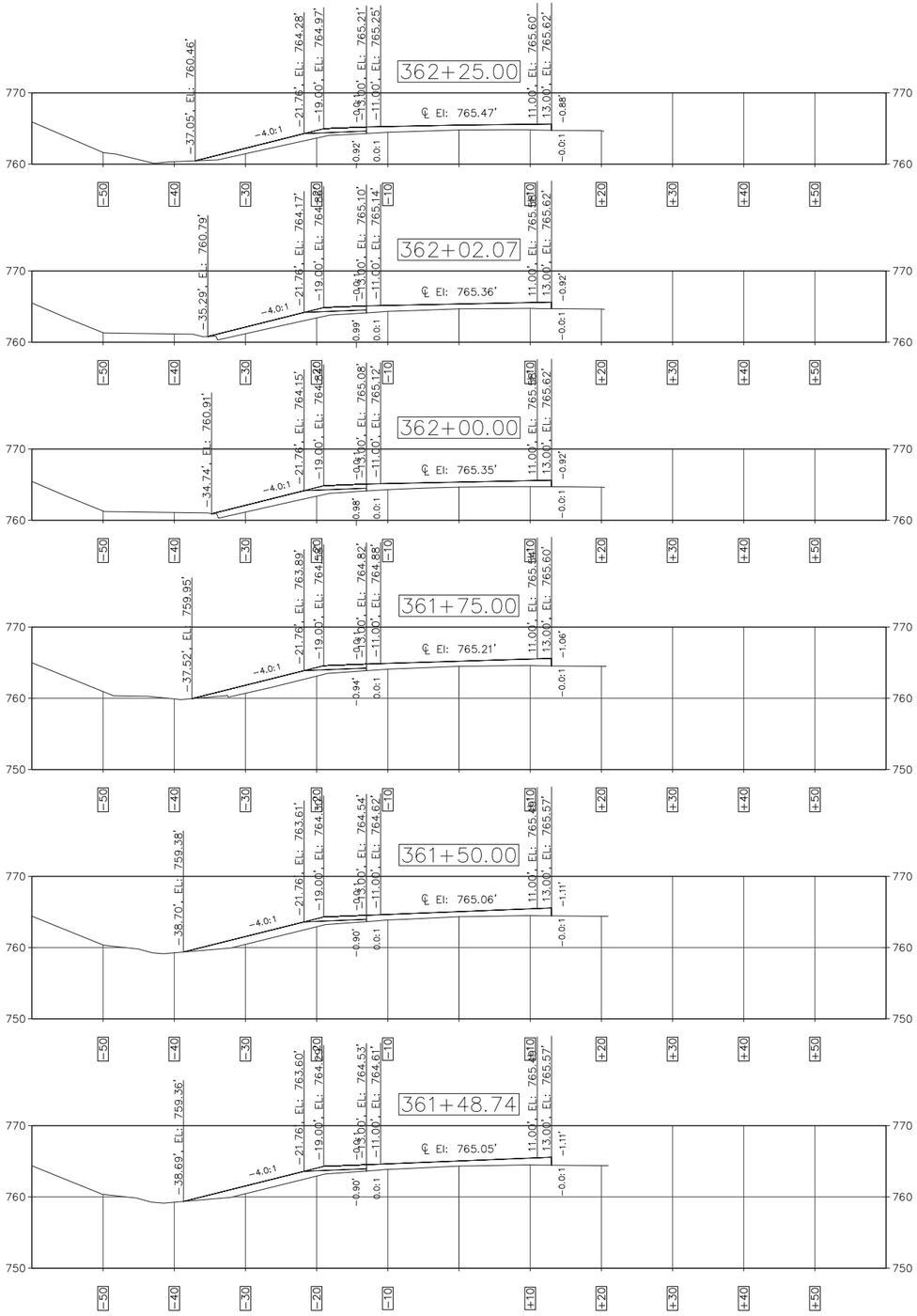
Total Volume at Station 361+25.00	
Cut Area (SF)	0.09
Fill Area (SF)	37.74
Cut Volume (CY)	0
Fill Volume (CY)	34



Total Volume at Station 361+00.00	
Cut Area (SF)	0.13
Fill Area (SF)	35.01
Cut Volume (CY)	0
Fill Volume (CY)	6



Total Volume at Station 360+95.40	
Cut Area (SF)	0.09
Fill Area (SF)	32.25
Cut Volume (CY)	0
Fill Volume (CY)	26



Total Volume at Station 362+25.00	
Cut Area (SF)	0.00
Fill Area (SF)	35.39
Cut Volume (CY)	0
Fill Volume (CY)	31

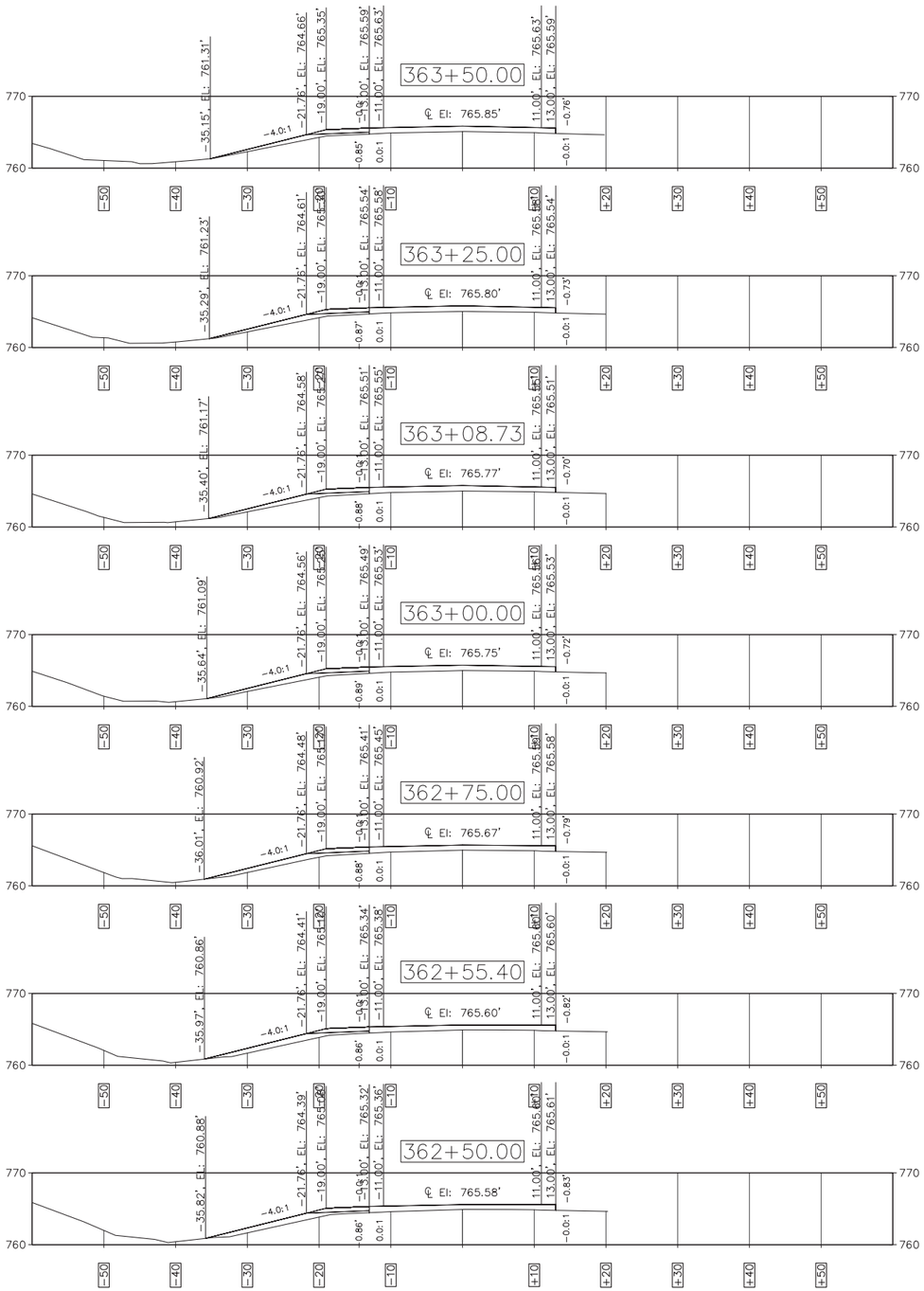
Total Volume at Station 362+02.07	
Cut Area (SF)	0.99
Fill Area (SF)	38.33
Cut Volume (CY)	0
Fill Volume (CY)	3

Total Volume at Station 362+00.00	
Cut Area (SF)	1.45
Fill Area (SF)	38.30
Cut Volume (CY)	1
Fill Volume (CY)	37

Total Volume at Station 361+75.00	
Cut Area (SF)	0.05
Fill Area (SF)	41.37
Cut Volume (CY)	0
Fill Volume (CY)	38

Total Volume at Station 361+50.00	
Cut Area (SF)	0.00
Fill Area (SF)	41.35
Cut Volume (CY)	0
Fill Volume (CY)	2

Total Volume at Station 361+48.74	
Cut Area (SF)	0.00
Fill Area (SF)	41.19
Cut Volume (CY)	0
Fill Volume (CY)	8



Total Volume at Station 363+50.00	
Cut Area (SF)	0.00
Fill Area (SF)	27.74
Cut Volume (CY)	0
Fill Volume (CY)	26

Total Volume at Station 363+25.00	
Cut Area (SF)	0.00
Fill Area (SF)	29.39
Cut Volume (CY)	0
Fill Volume (CY)	18

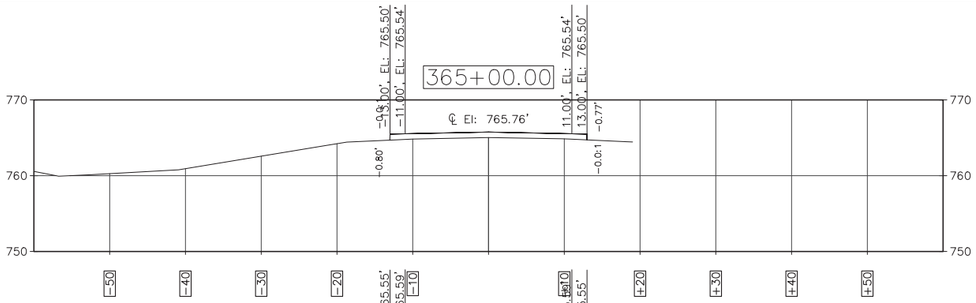
Total Volume at Station 363+08.73	
Cut Area (SF)	0.00
Fill Area (SF)	29.76
Cut Volume (CY)	0
Fill Volume (CY)	10

Total Volume at Station 363+00.00	
Cut Area (SF)	0.00
Fill Area (SF)	30.11
Cut Volume (CY)	0
Fill Volume (CY)	28

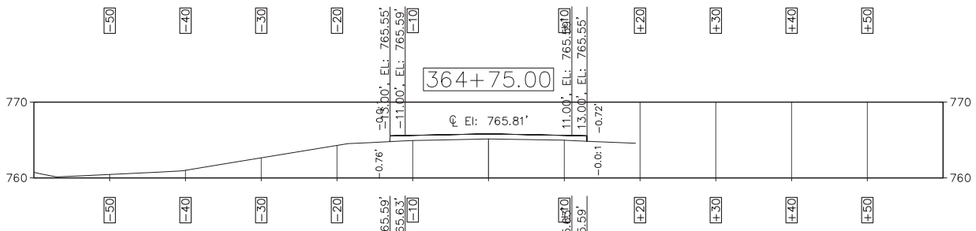
Total Volume at Station 362+75.00	
Cut Area (SF)	0.00
Fill Area (SF)	31.17
Cut Volume (CY)	0
Fill Volume (CY)	23

Total Volume at Station 362+55.40	
Cut Area (SF)	0.02
Fill Area (SF)	31.81
Cut Volume (CY)	0
Fill Volume (CY)	6

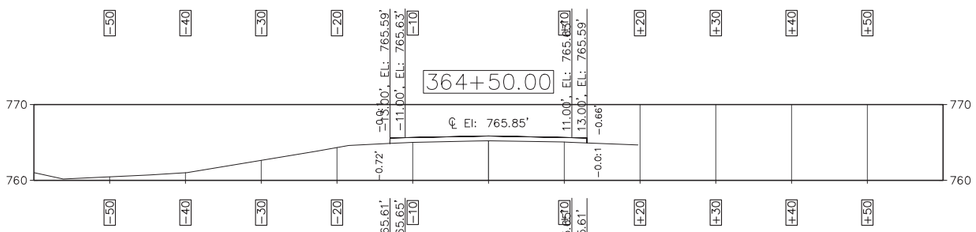
Total Volume at Station 362+50.00	
Cut Area (SF)	0.04
Fill Area (SF)	32.08
Cut Volume (CY)	0
Fill Volume (CY)	31



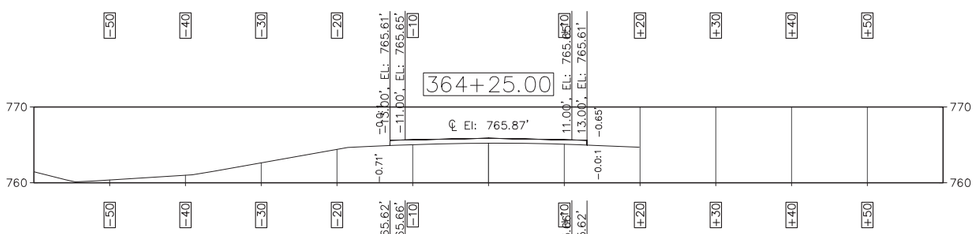
Total Volume at Station 365+00.00	
Cut Area (SF)	2.06
Fill Area (SF)	18.75
Cut Volume (CY)	3
Fill Volume (CY)	17



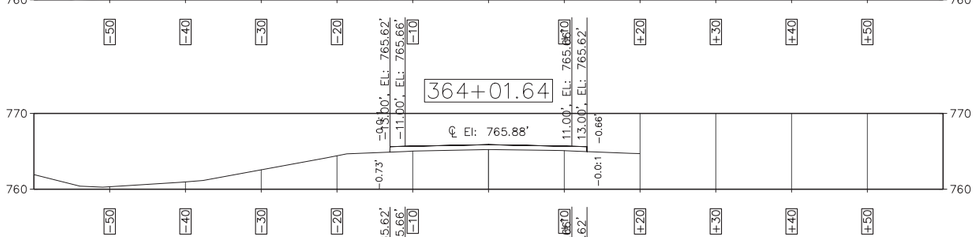
Total Volume at Station 364+75.00	
Cut Area (SF)	4.05
Fill Area (SF)	17.45
Cut Volume (CY)	5
Fill Volume (CY)	16



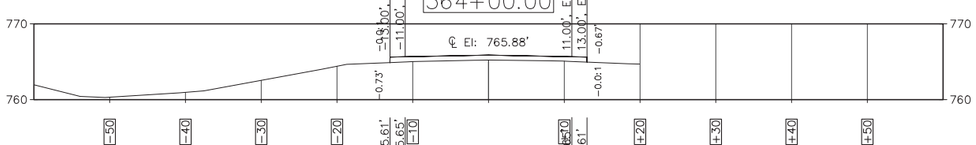
Total Volume at Station 364+50.00	
Cut Area (SF)	5.80
Fill Area (SF)	16.35
Cut Volume (CY)	6
Fill Volume (CY)	15



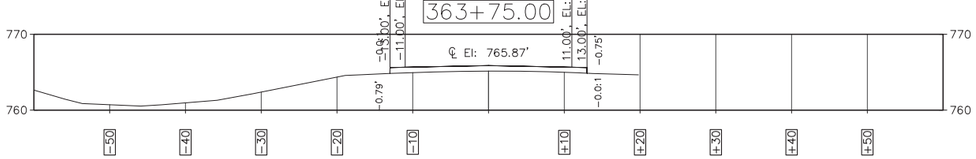
Total Volume at Station 364+25.00	
Cut Area (SF)	7.56
Fill Area (SF)	16.28
Cut Volume (CY)	7
Fill Volume (CY)	14



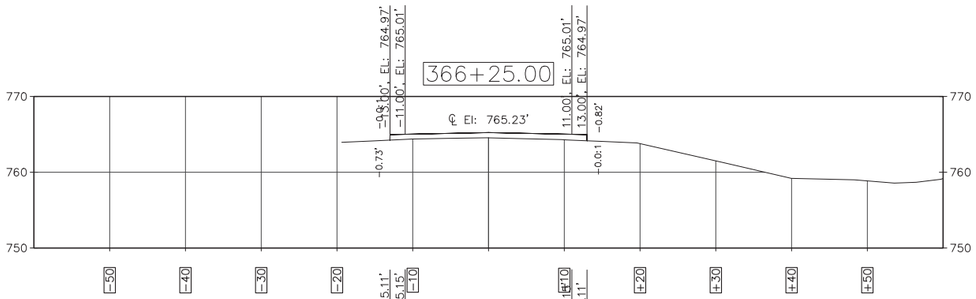
Total Volume at Station 364+01.64	
Cut Area (SF)	8.15
Fill Area (SF)	16.55
Cut Volume (CY)	0
Fill Volume (CY)	1



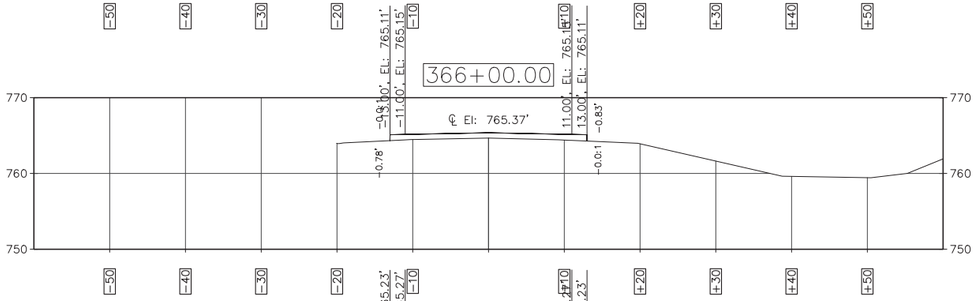
Total Volume at Station 364+00.00	
Cut Area (SF)	8.08
Fill Area (SF)	16.67
Cut Volume (CY)	7
Fill Volume (CY)	16



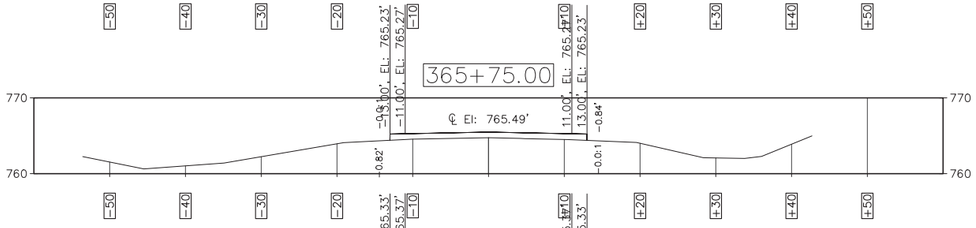
Total Volume at Station 363+75.00	
Cut Area (SF)	7.44
Fill Area (SF)	18.42
Cut Volume (CY)	3
Fill Volume (CY)	21



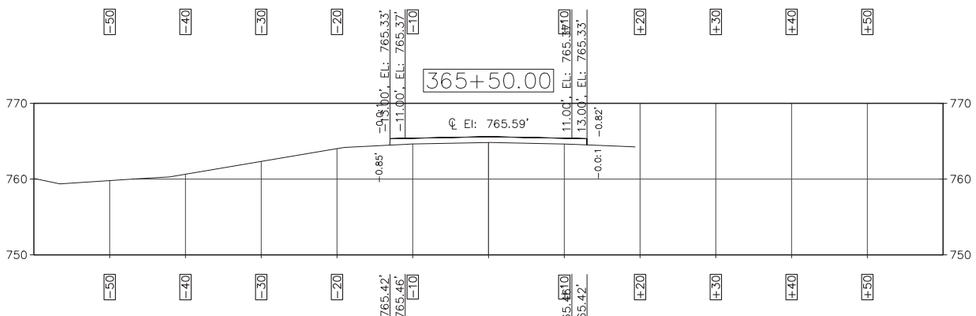
Total Volume at Station 366+25.00	
Cut Area (SF)	0.00
Fill Area (SF)	28.53
Cut Volume (CY)	5
Fill Volume (CY)	22



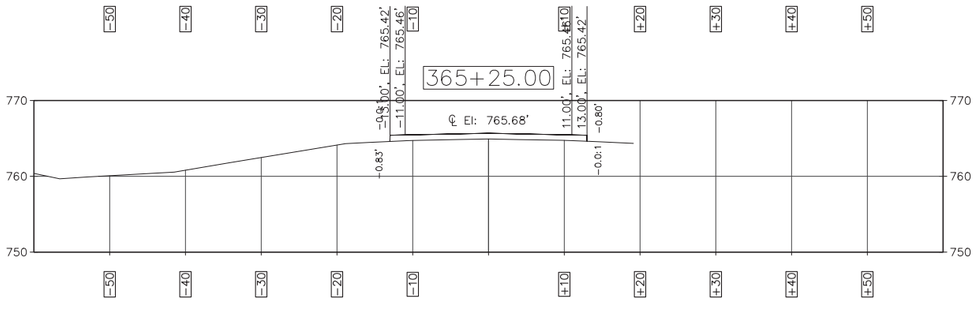
Total Volume at Station 366+00.00	
Cut Area (SF)	10.64
Fill Area (SF)	18.82
Cut Volume (CY)	9
Fill Volume (CY)	18



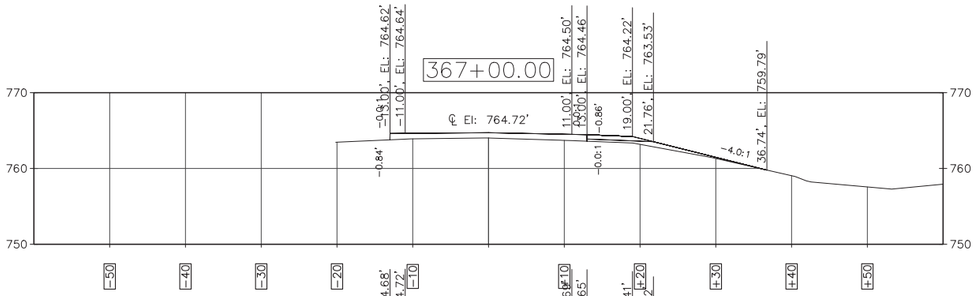
Total Volume at Station 365+75.00	
Cut Area (SF)	9.49
Fill Area (SF)	19.80
Cut Volume (CY)	6
Fill Volume (CY)	18



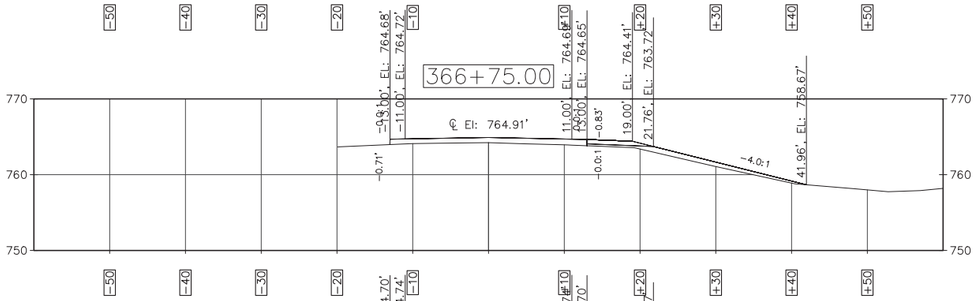
Total Volume at Station 365+50.00	
Cut Area (SF)	2.74
Fill Area (SF)	20.03
Cut Volume (CY)	3
Fill Volume (CY)	18



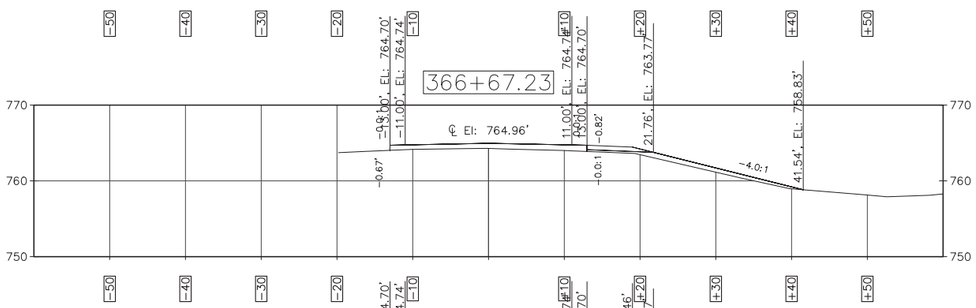
Total Volume at Station 365+25.00	
Cut Area (SF)	2.68
Fill Area (SF)	19.63
Cut Volume (CY)	2
Fill Volume (CY)	18



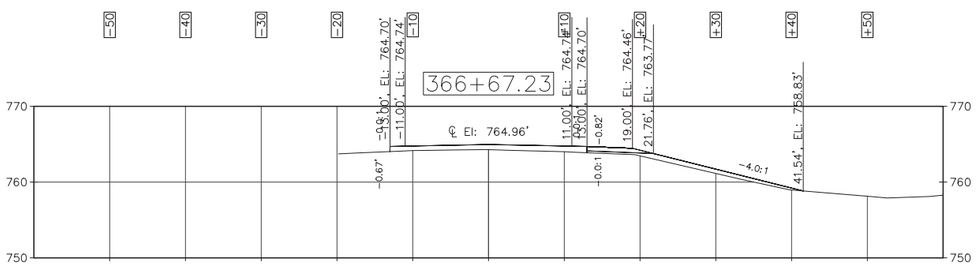
Total Volume at Station 367+00.00	
Cut Area (SF)	0.19
Fill Area (SF)	26.48
Cut Volume (CY)	0
Fill Volume (CY)	27



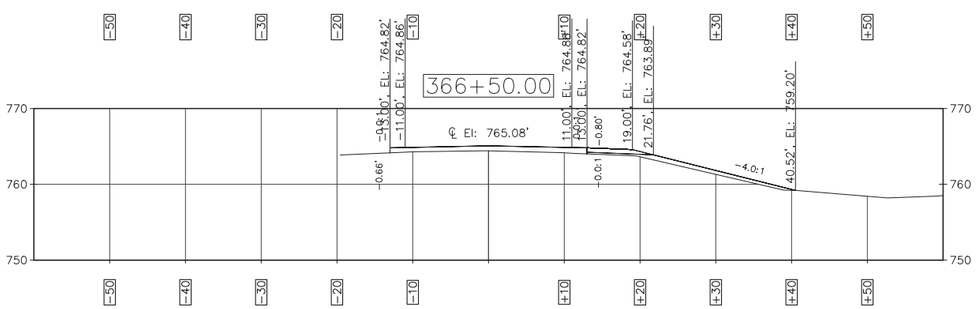
Total Volume at Station 366+75.00	
Cut Area (SF)	0.00
Fill Area (SF)	31.13
Cut Volume (CY)	0
Fill Volume (CY)	9



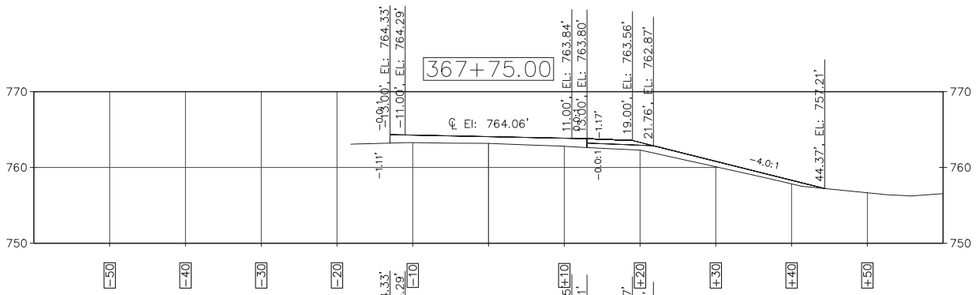
Total Volume at Station 366+67.23	
Cut Area (SF)	0.00
Fill Area (SF)	30.42
Cut Volume (CY)	0
Fill Volume (CY)	0



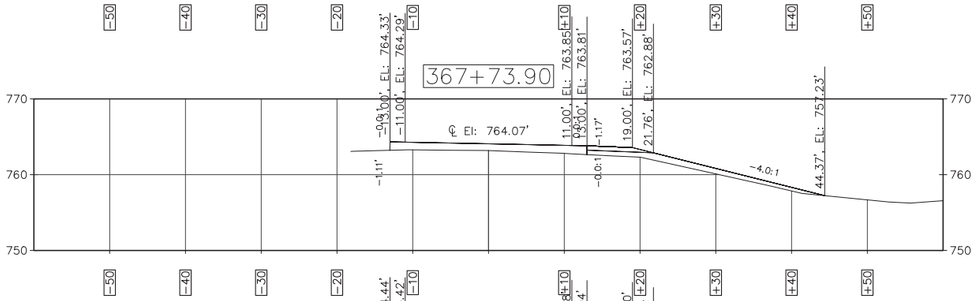
Total Volume at Station 366+67.23	
Cut Area (SF)	0.00
Fill Area (SF)	30.42
Cut Volume (CY)	0
Fill Volume (CY)	19



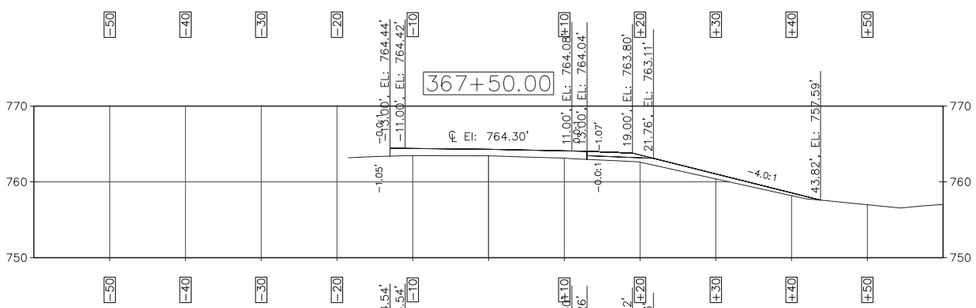
Total Volume at Station 366+50.00	
Cut Area (SF)	0.07
Fill Area (SF)	28.70
Cut Volume (CY)	0
Fill Volume (CY)	26



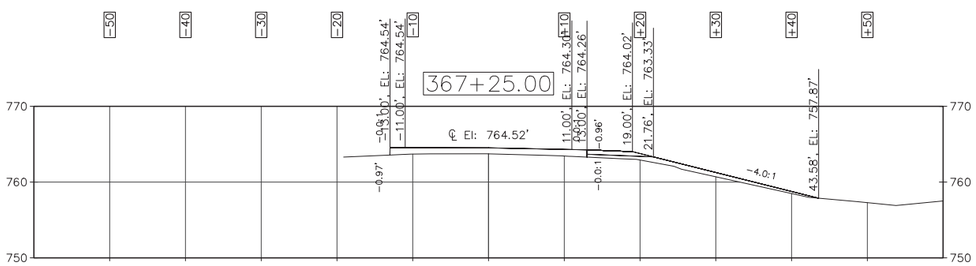
Total Volume at Station 367+75.00	
Cut Area (SF)	0.00
Fill Area (SF)	45.54
Cut Volume (CY)	0
Fill Volume (CY)	2



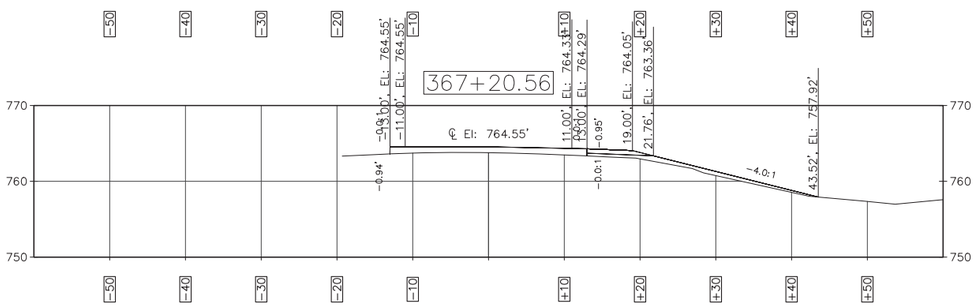
Total Volume at Station 367+73.90	
Cut Area (SF)	0.00
Fill Area (SF)	45.57
Cut Volume (CY)	0
Fill Volume (CY)	39



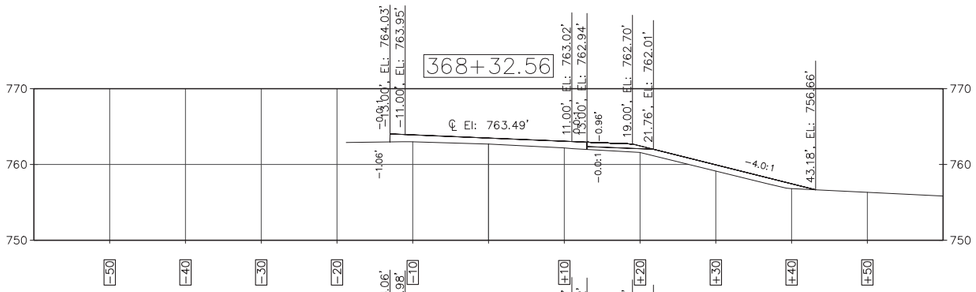
Total Volume at Station 367+50.00	
Cut Area (SF)	0.00
Fill Area (SF)	41.51
Cut Volume (CY)	0
Fill Volume (CY)	36



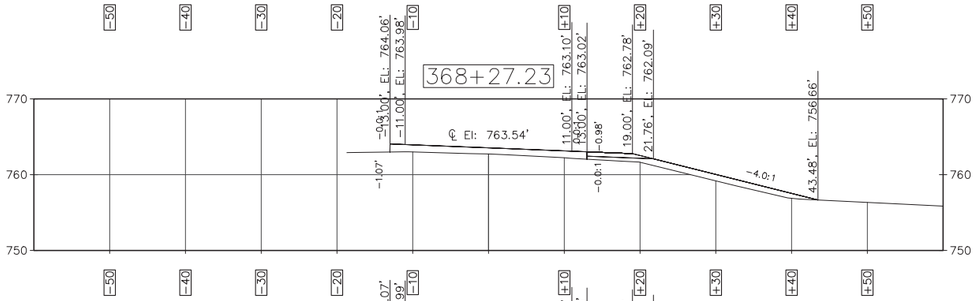
Total Volume at Station 367+25.00	
Cut Area (SF)	0.00
Fill Area (SF)	35.78
Cut Volume (CY)	0
Fill Volume (CY)	6



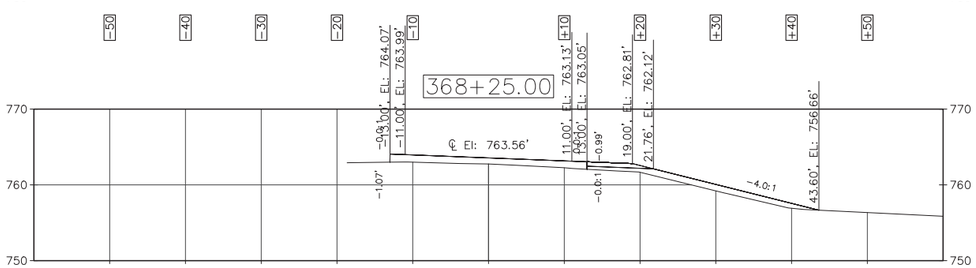
Total Volume at Station 367+20.56	
Cut Area (SF)	0.00
Fill Area (SF)	34.31
Cut Volume (CY)	0
Fill Volume (CY)	23



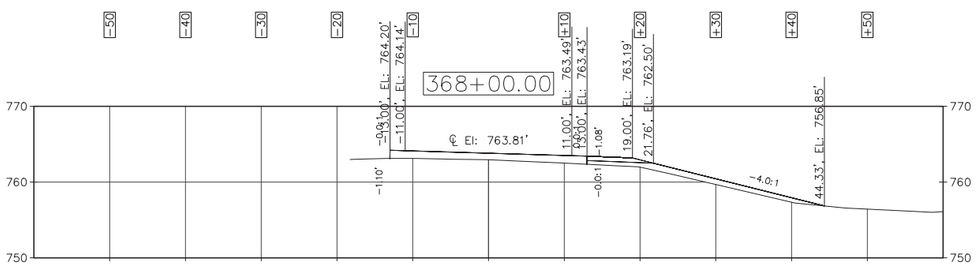
Total Volume at Station 368+32.56	
Cut Area (SF)	0.03
Fill Area (SF)	42.67
Cut Volume (CY)	0
Fill Volume (CY)	9



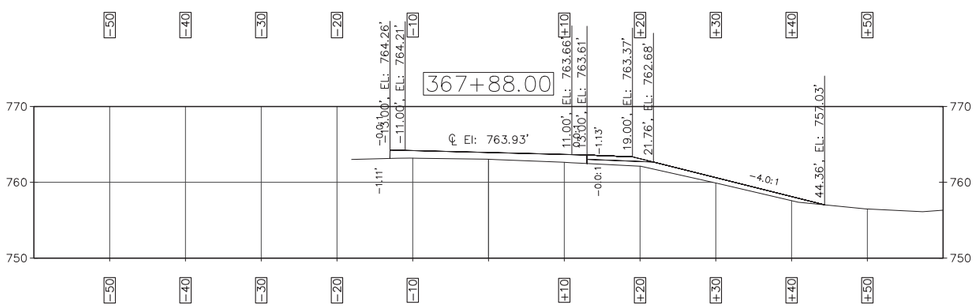
Total Volume at Station 368+27.23	
Cut Area (SF)	0.00
Fill Area (SF)	43.74
Cut Volume (CY)	0
Fill Volume (CY)	4



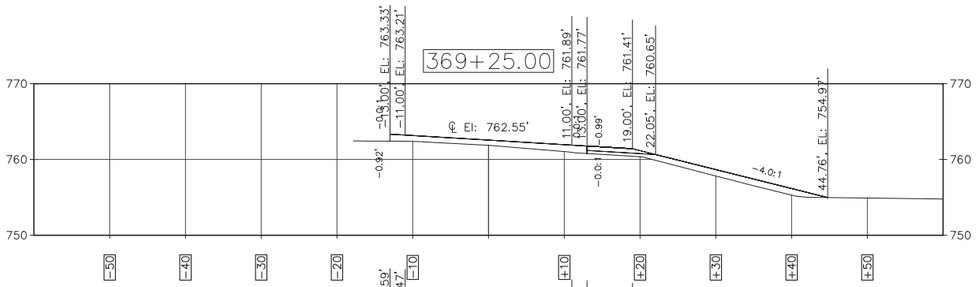
Total Volume at Station 368+25.00	
Cut Area (SF)	0.00
Fill Area (SF)	44.08
Cut Volume (CY)	0
Fill Volume (CY)	41



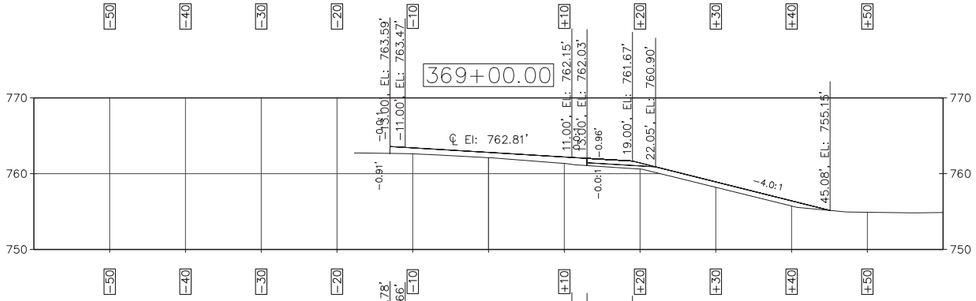
Total Volume at Station 368+00.00	
Cut Area (SF)	0.00
Fill Area (SF)	44.82
Cut Volume (CY)	0
Fill Volume (CY)	20



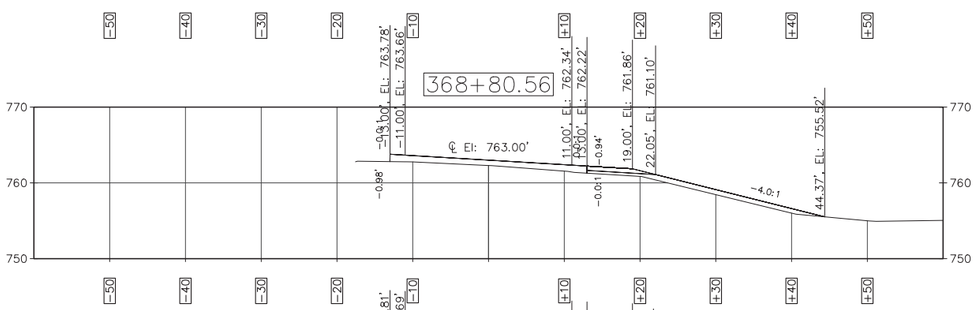
Total Volume at Station 367+88.00	
Cut Area (SF)	0.00
Fill Area (SF)	45.17
Cut Volume (CY)	0
Fill Volume (CY)	22



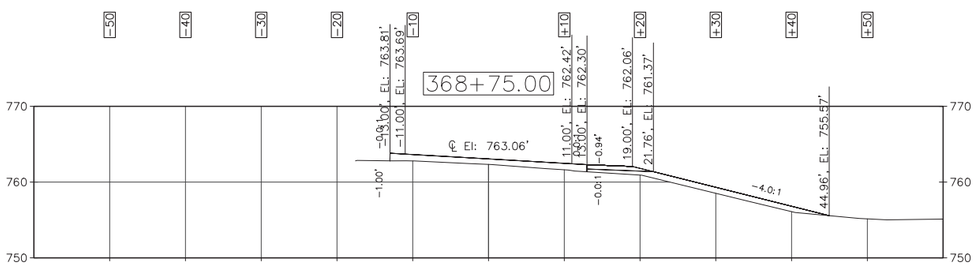
Total Volume at Station 369+25.00	
Cut Area (SF)	0.00
Fill Area (SF)	42.27
Cut Volume (CY)	0
Fill Volume (CY)	38



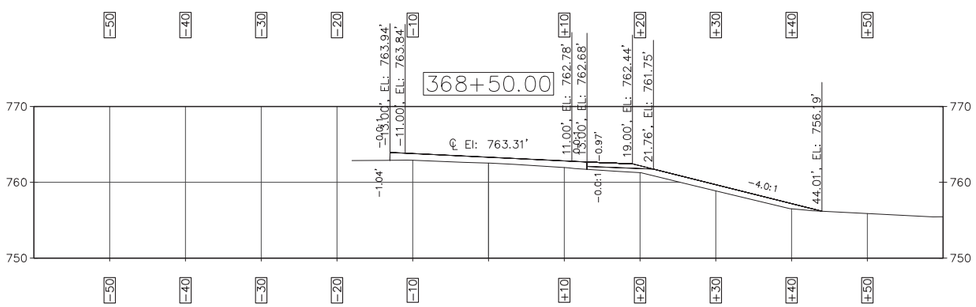
Total Volume at Station 369+00.00	
Cut Area (SF)	0.00
Fill Area (SF)	39.02
Cut Volume (CY)	0
Fill Volume (CY)	28



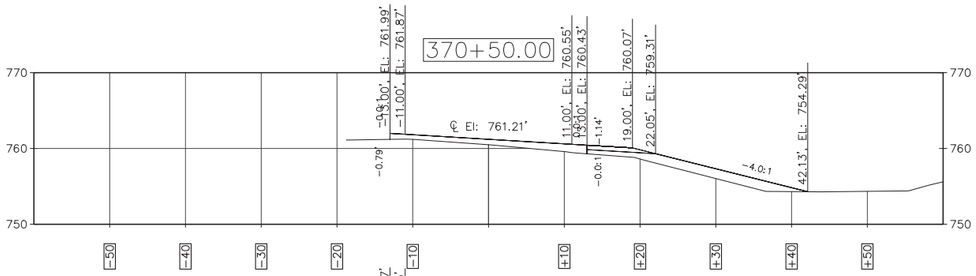
Total Volume at Station 368+80.56	
Cut Area (SF)	0.00
Fill Area (SF)	37.74
Cut Volume (CY)	0
Fill Volume (CY)	8



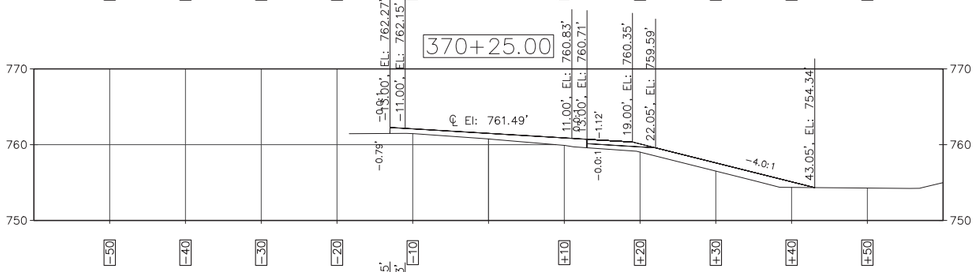
Total Volume at Station 368+75.00	
Cut Area (SF)	0.00
Fill Area (SF)	41.77
Cut Volume (CY)	0
Fill Volume (CY)	39



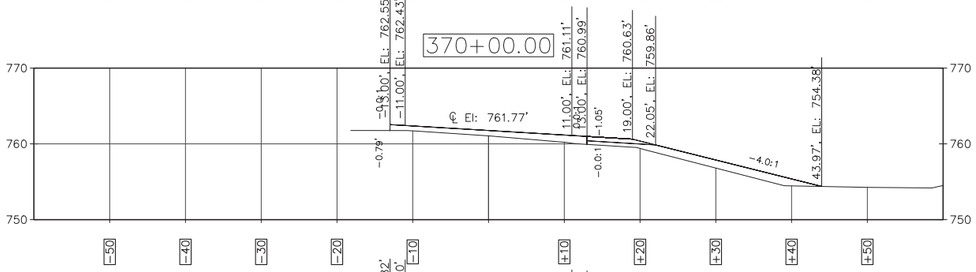
Total Volume at Station 368+50.00	
Cut Area (SF)	0.00
Fill Area (SF)	42.79
Cut Volume (CY)	0
Fill Volume (CY)	28



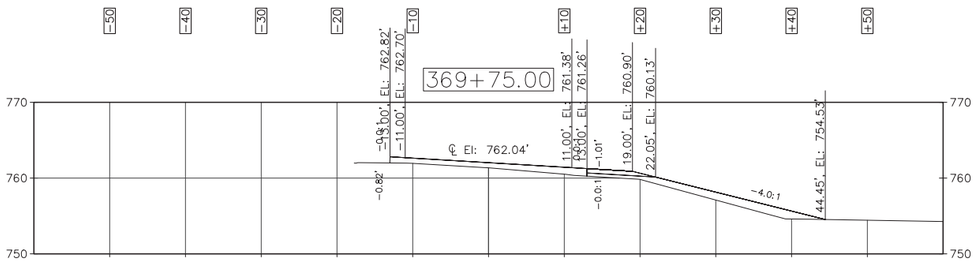
Total Volume at Station 370+50.00	
Cut Area (SF)	0.00
Fill Area (SF)	49.46
Cut Volume (CY)	0
Fill Volume (CY)	45



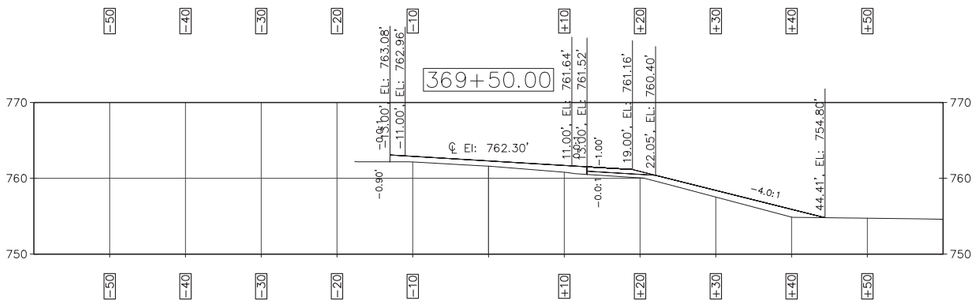
Total Volume at Station 370+25.00	
Cut Area (SF)	0.00
Fill Area (SF)	47.07
Cut Volume (CY)	0
Fill Volume (CY)	43



Total Volume at Station 370+00.00	
Cut Area (SF)	0.00
Fill Area (SF)	46.20
Cut Volume (CY)	0
Fill Volume (CY)	43

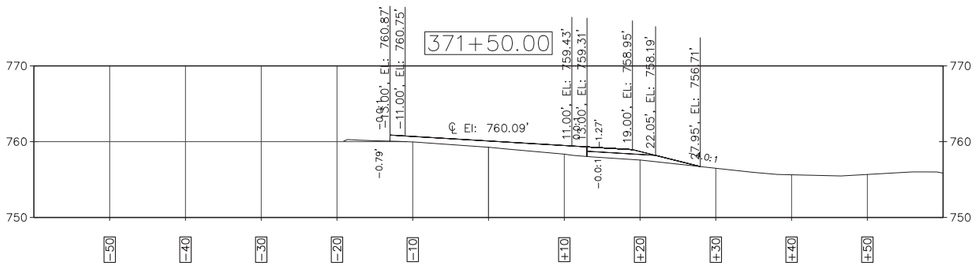


Total Volume at Station 369+75.00	
Cut Area (SF)	0.00
Fill Area (SF)	45.62
Cut Volume (CY)	0
Fill Volume (CY)	41

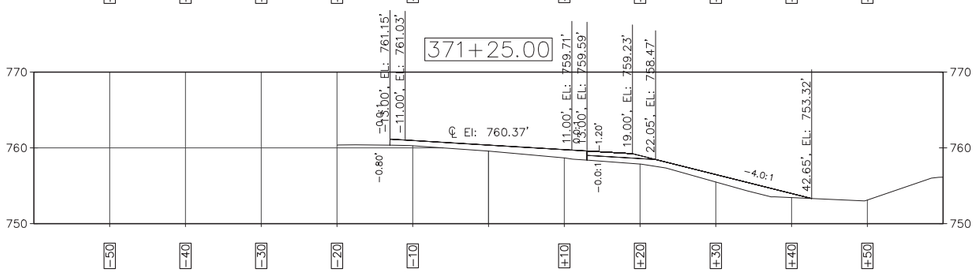


Total Volume at Station 369+50.00	
Cut Area (SF)	0.00
Fill Area (SF)	43.15
Cut Volume (CY)	0
Fill Volume (CY)	40

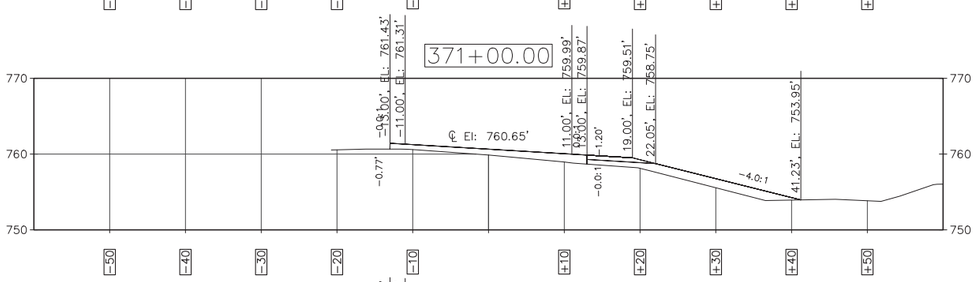
Total Volume at Station 371+75.00	
Cut Area (SF)	26.76
Fill Area (SF)	33.86
Cut Volume (CY)	21
Fill Volume (CY)	31



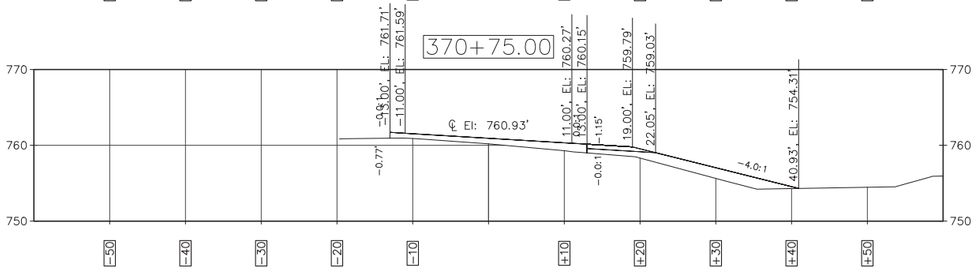
Total Volume at Station 371+50.00	
Cut Area (SF)	19.30
Fill Area (SF)	32.64
Cut Volume (CY)	9
Fill Volume (CY)	37



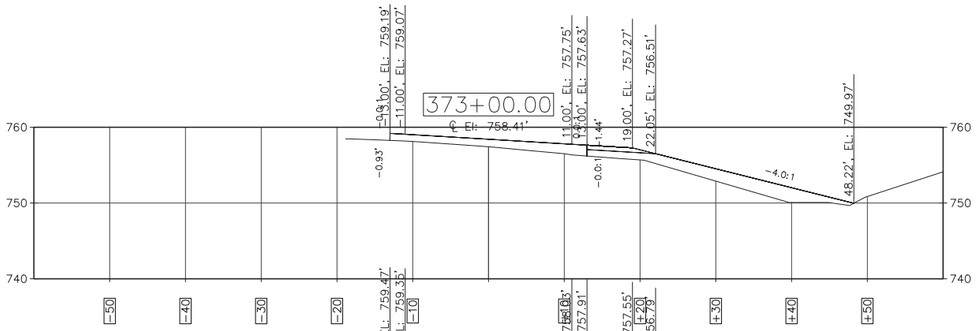
Total Volume at Station 371+25.00	
Cut Area (SF)	0.00
Fill Area (SF)	46.73
Cut Volume (CY)	0
Fill Volume (CY)	44



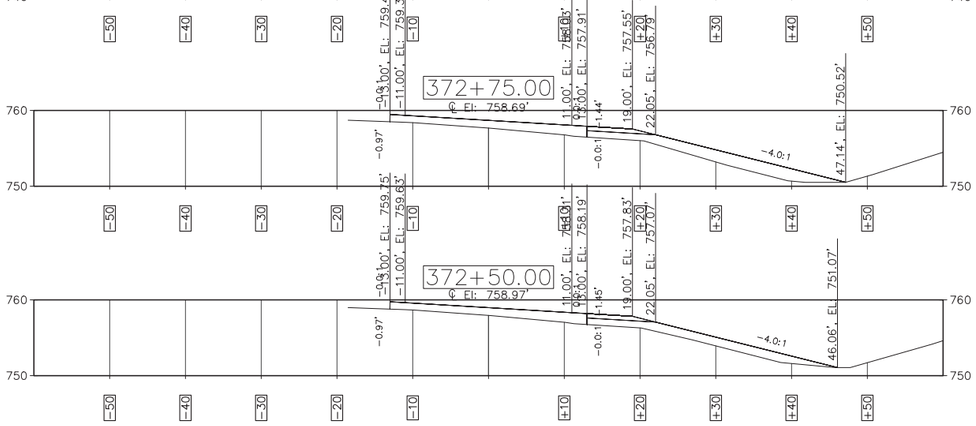
Total Volume at Station 371+00.00	
Cut Area (SF)	0.28
Fill Area (SF)	48.80
Cut Volume (CY)	0
Fill Volume (CY)	46



Total Volume at Station 370+75.00	
Cut Area (SF)	0.33
Fill Area (SF)	50.35
Cut Volume (CY)	0
Fill Volume (CY)	46

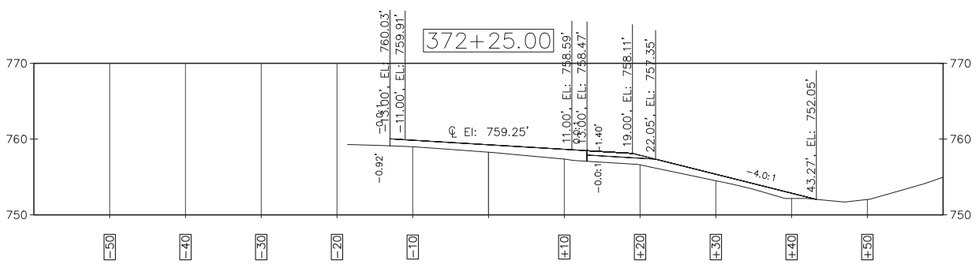


Total Volume at Station 373+00.00	
Cut Area (SF)	0.21
Fill Area (SF)	74.71
Cut Volume (CY)	0
Fill Volume (CY)	67

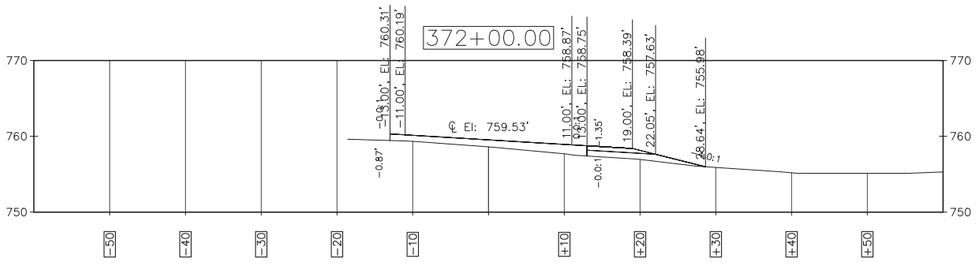


Total Volume at Station 372+75.00	
Cut Area (SF)	0.00
Fill Area (SF)	70.98
Cut Volume (CY)	0
Fill Volume (CY)	61

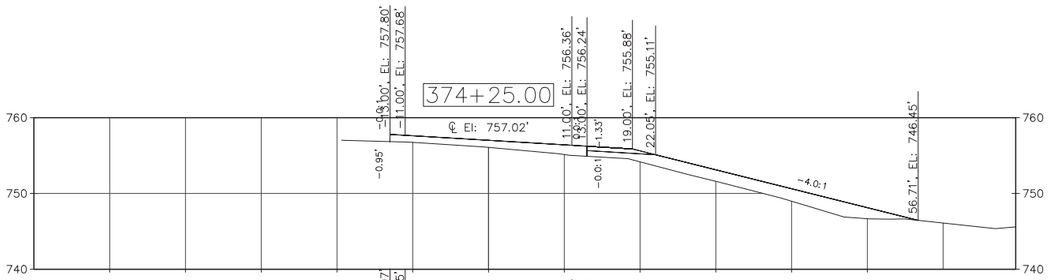
Total Volume at Station 372+50.00	
Cut Area (SF)	0.00
Fill Area (SF)	60.65
Cut Volume (CY)	0
Fill Volume (CY)	52



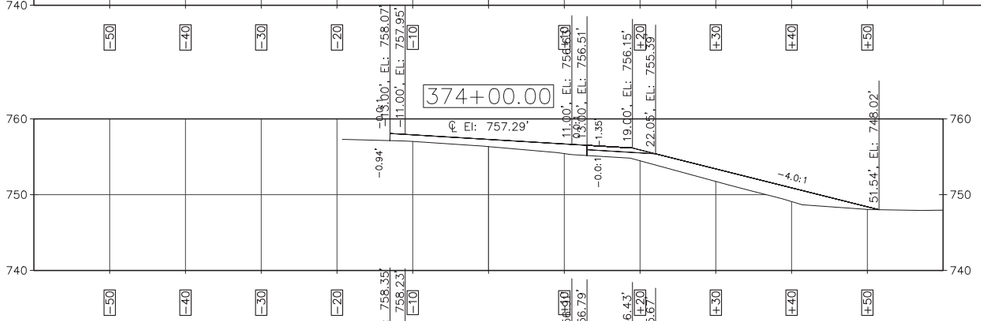
Total Volume at Station 372+25.00	
Cut Area (SF)	0.37
Fill Area (SF)	52.35
Cut Volume (CY)	12
Fill Volume (CY)	41



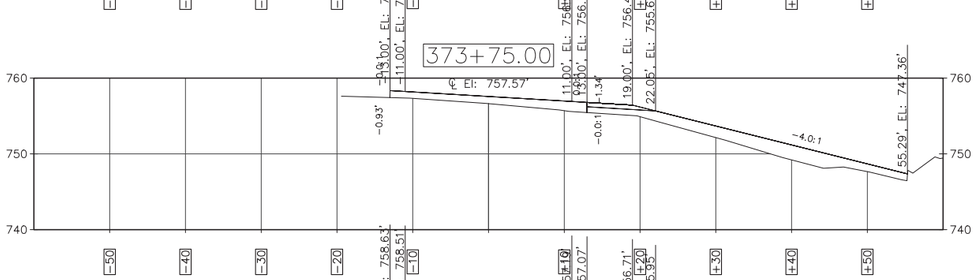
Total Volume at Station 372+00.00	
Cut Area (SF)	26.16
Fill Area (SF)	36.21
Cut Volume (CY)	24
Fill Volume (CY)	32



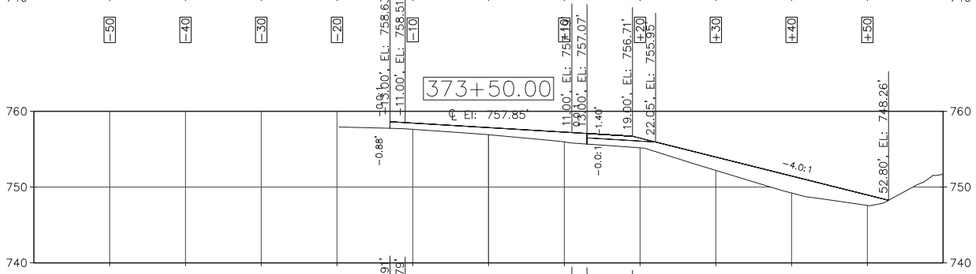
Total Volume at Station 374+25.00	
Cut Area (SF)	5.00
Fill Area (SF)	84.80
Cut Volume (CY)	6
Fill Volume (CY)	75



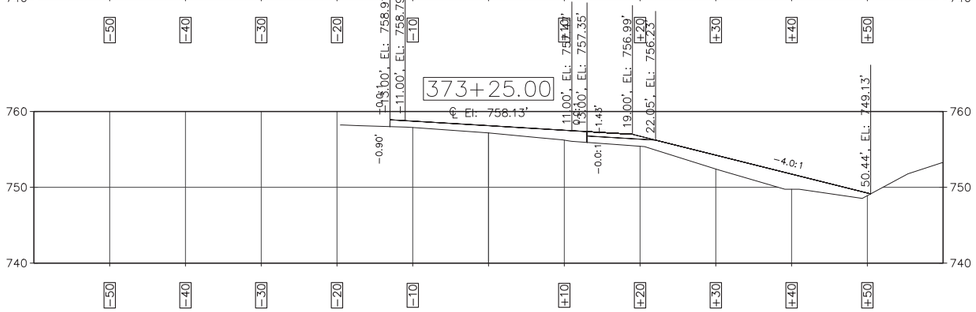
Total Volume at Station 374+00.00	
Cut Area (SF)	7.76
Fill Area (SF)	76.99
Cut Volume (CY)	6
Fill Volume (CY)	75



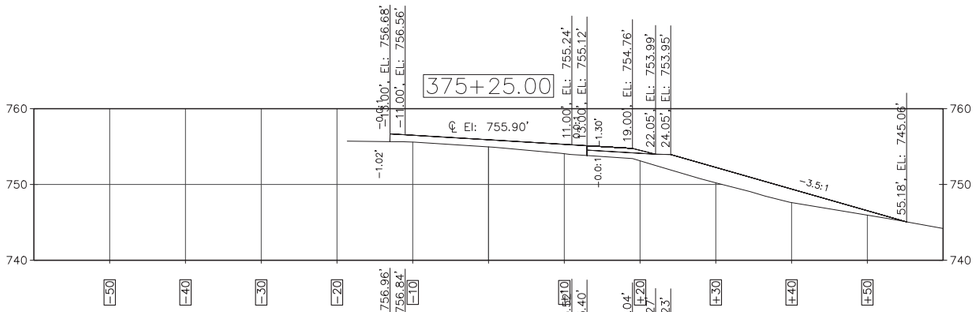
Total Volume at Station 373+75.00	
Cut Area (SF)	6.20
Fill Area (SF)	84.57
Cut Volume (CY)	4
Fill Volume (CY)	80



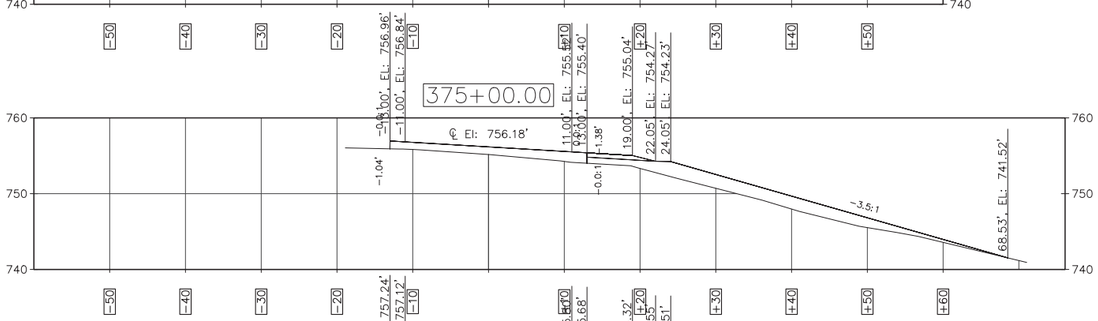
Total Volume at Station 373+50.00	
Cut Area (SF)	1.90
Fill Area (SF)	88.18
Cut Volume (CY)	1
Fill Volume (CY)	79



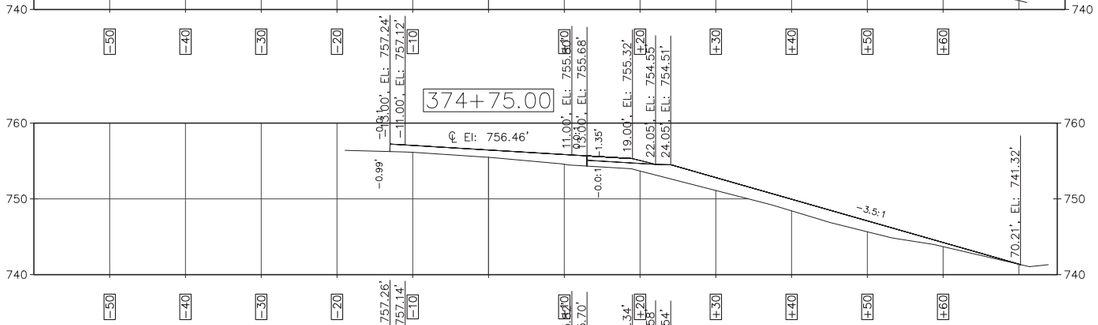
Total Volume at Station 373+25.00	
Cut Area (SF)	0.00
Fill Area (SF)	81.68
Cut Volume (CY)	0
Fill Volume (CY)	72



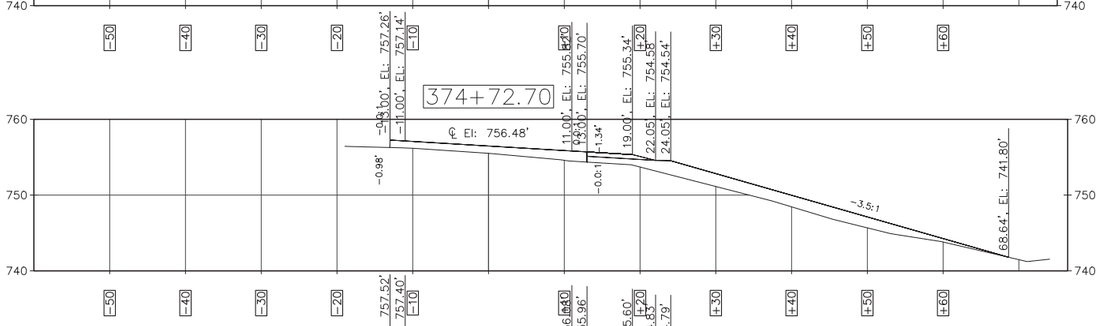
Total Volume at Station 375+25.00	
Cut Area (SF)	0.59
Fill Area (SF)	82.87
Cut Volume (CY)	0
Fill Volume (CY)	82



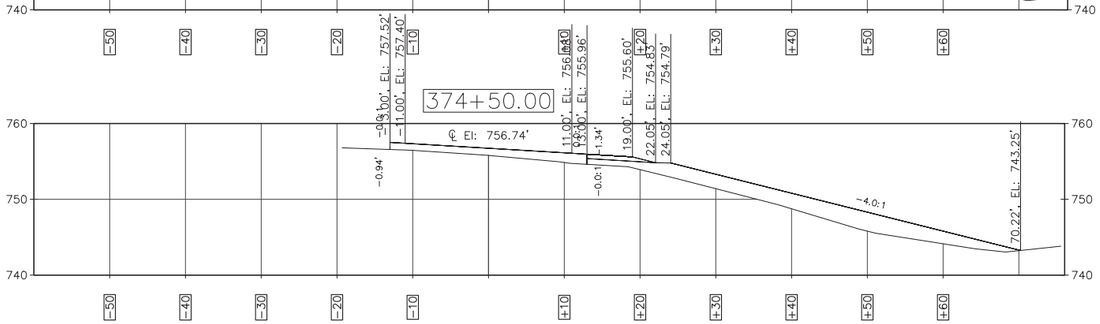
Total Volume at Station 375+00.00	
Cut Area (SF)	0.00
Fill Area (SF)	93.54
Cut Volume (CY)	0
Fill Volume (CY)	87



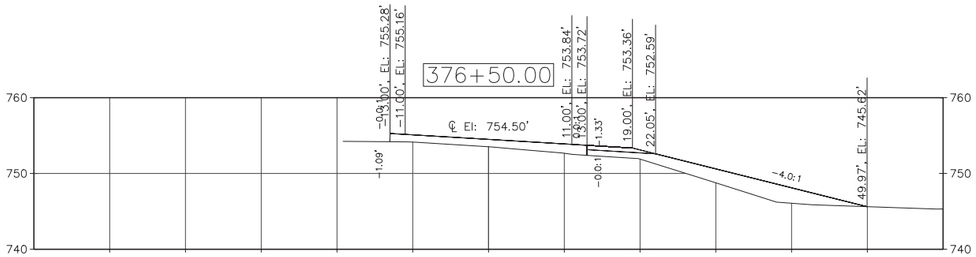
Total Volume at Station 374+75.00	
Cut Area (SF)	0.00
Fill Area (SF)	93.99
Cut Volume (CY)	0
Fill Volume (CY)	8



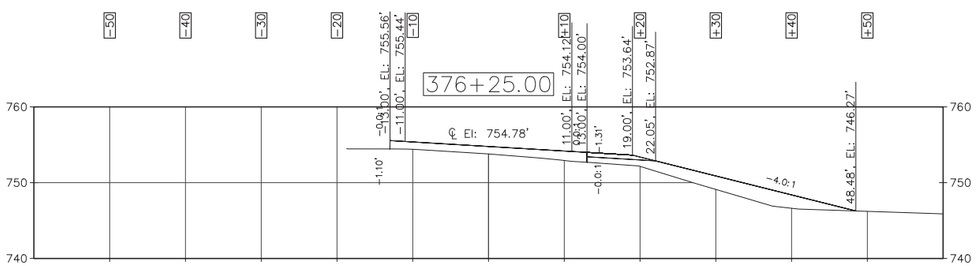
Total Volume at Station 374+72.70	
Cut Area (SF)	0.00
Fill Area (SF)	92.93
Cut Volume (CY)	0
Fill Volume (CY)	91



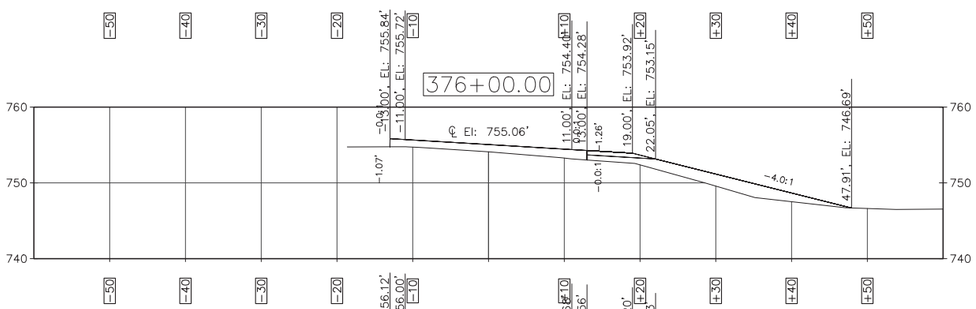
Total Volume at Station 374+50.00	
Cut Area (SF)	0.00
Fill Area (SF)	123.94
Cut Volume (CY)	2
Fill Volume (CY)	97



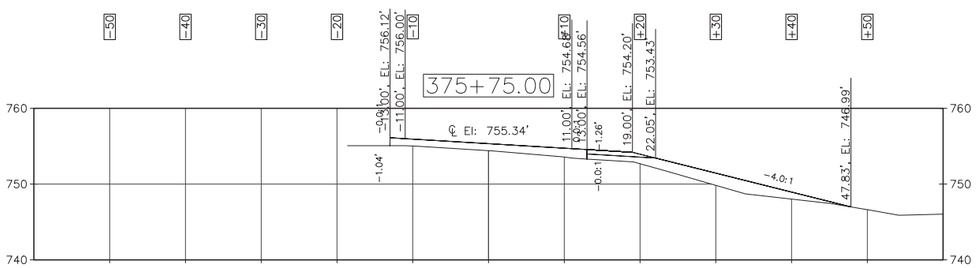
Total Volume at Station 376+50.00	
Cut Area (SF)	2.93
Fill Area (SF)	79.56
Cut Volume (CY)	6
Fill Volume (CY)	72



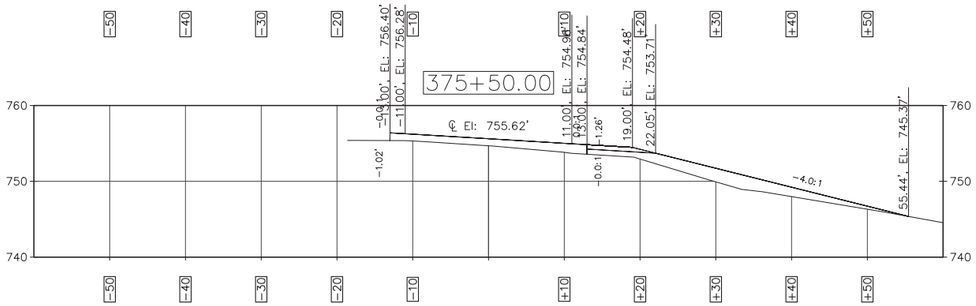
Total Volume at Station 376+25.00	
Cut Area (SF)	10.19
Fill Area (SF)	75.08
Cut Volume (CY)	12
Fill Volume (CY)	65



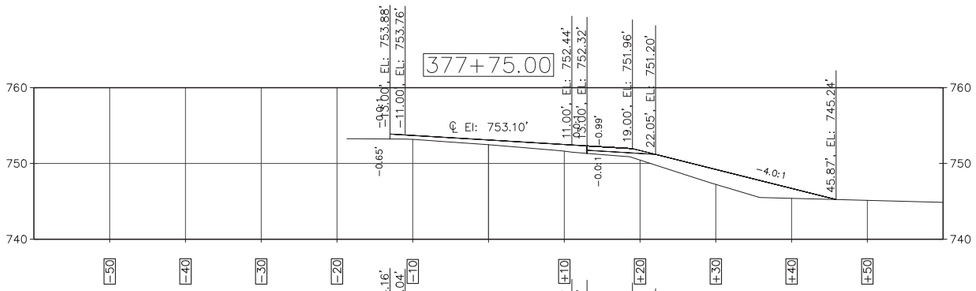
Total Volume at Station 376+00.00	
Cut Area (SF)	15.76
Fill Area (SF)	66.38
Cut Volume (CY)	11
Fill Volume (CY)	60



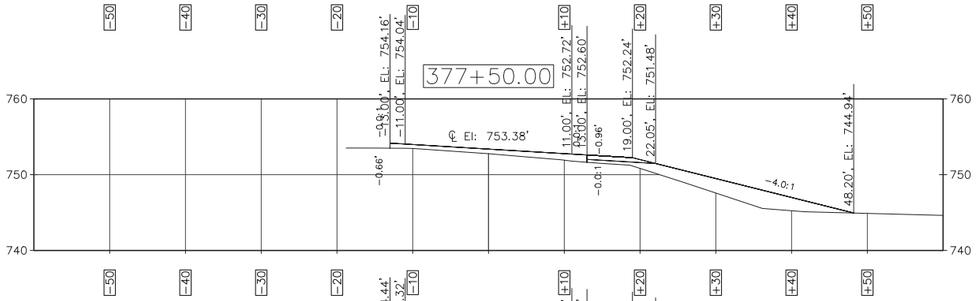
Total Volume at Station 375+75.00	
Cut Area (SF)	8.66
Fill Area (SF)	62.90
Cut Volume (CY)	5
Fill Volume (CY)	62



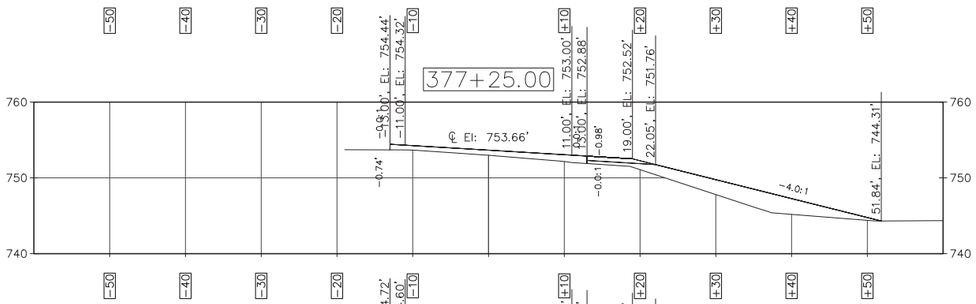
Total Volume at Station 375+50.00	
Cut Area (SF)	1.19
Fill Area (SF)	72.00
Cut Volume (CY)	1
Fill Volume (CY)	72



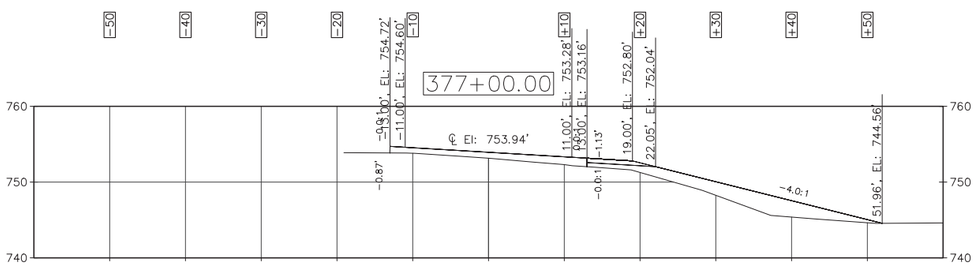
Total Volume at Station 377+75.00	
Cut Area (SF)	0.74
Fill Area (SF)	60.77
Cut Volume (CY)	1
Fill Volume (CY)	58



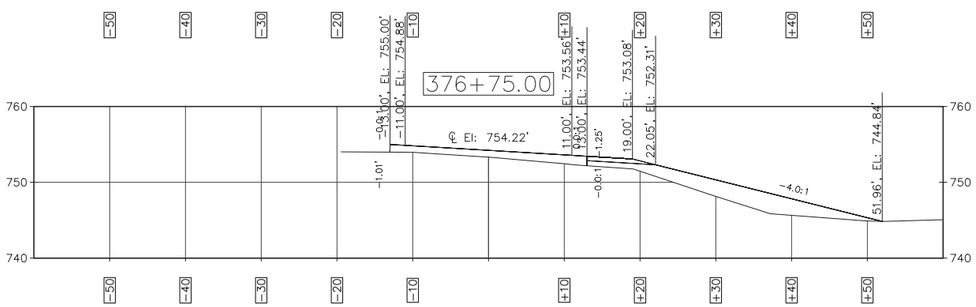
Total Volume at Station 377+50.00	
Cut Area (SF)	0.45
Fill Area (SF)	64.14
Cut Volume (CY)	0
Fill Volume (CY)	63



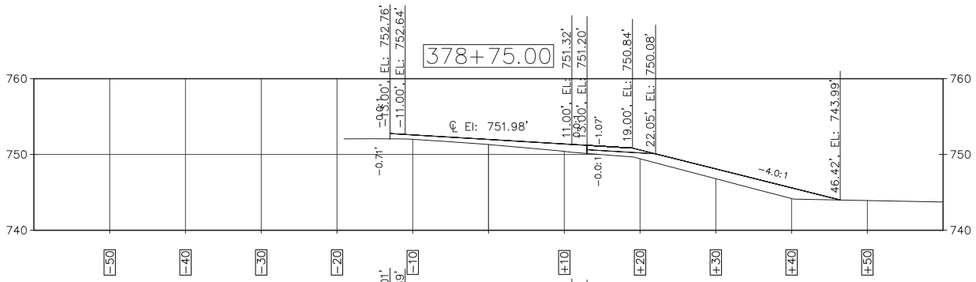
Total Volume at Station 377+25.00	
Cut Area (SF)	0.00
Fill Area (SF)	72.91
Cut Volume (CY)	0
Fill Volume (CY)	69



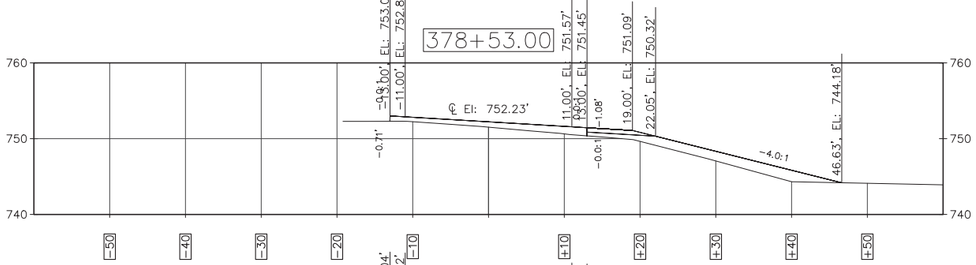
Total Volume at Station 377+00.00	
Cut Area (SF)	0.00
Fill Area (SF)	76.97
Cut Volume (CY)	0
Fill Volume (CY)	75



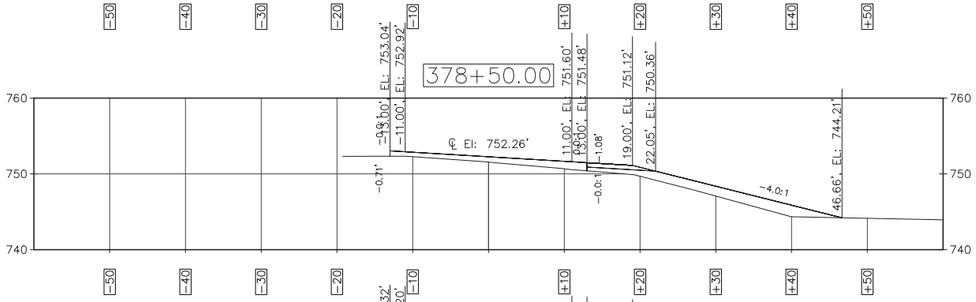
Total Volume at Station 376+75.00	
Cut Area (SF)	0.00
Fill Area (SF)	85.89
Cut Volume (CY)	1
Fill Volume (CY)	77



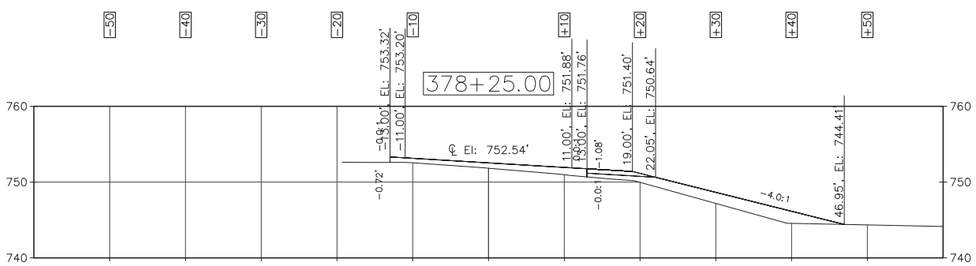
Total Volume at Station 378+75.00	
Cut Area (SF)	0.00
Fill Area (SF)	53.56
Cut Volume (CY)	0
Fill Volume (CY)	44



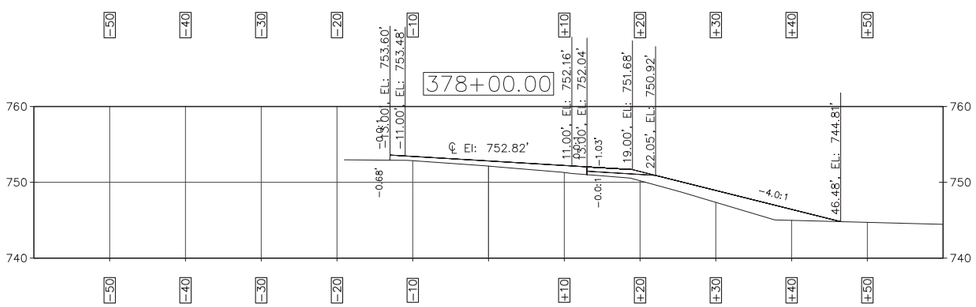
Total Volume at Station 378+53.00	
Cut Area (SF)	0.00
Fill Area (SF)	54.79
Cut Volume (CY)	0
Fill Volume (CY)	6



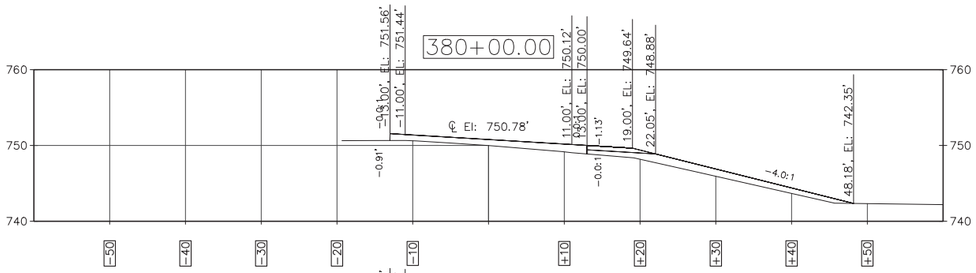
Total Volume at Station 378+50.00	
Cut Area (SF)	0.00
Fill Area (SF)	54.98
Cut Volume (CY)	0
Fill Volume (CY)	52



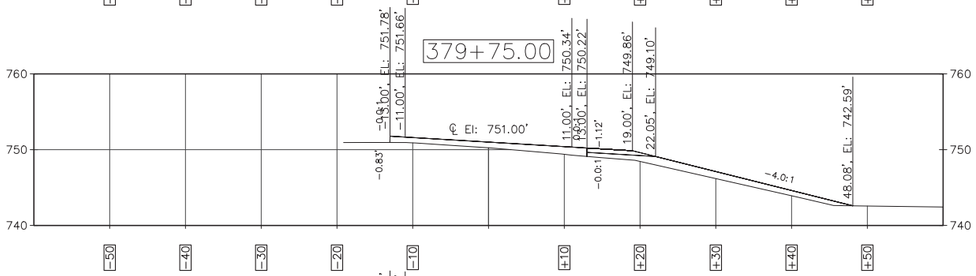
Total Volume at Station 378+25.00	
Cut Area (SF)	0.00
Fill Area (SF)	58.23
Cut Volume (CY)	0
Fill Volume (CY)	54



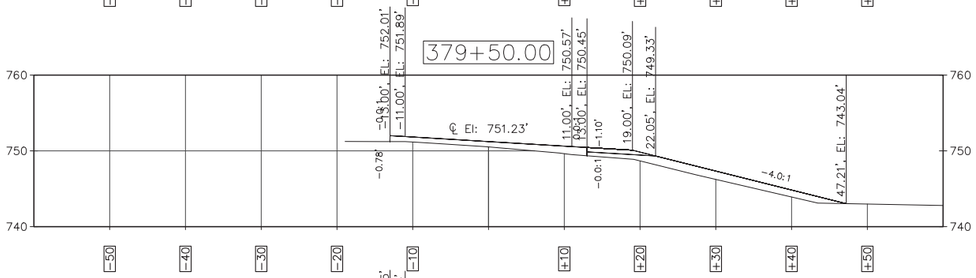
Total Volume at Station 378+00.00	
Cut Area (SF)	0.00
Fill Area (SF)	58.16
Cut Volume (CY)	0
Fill Volume (CY)	55



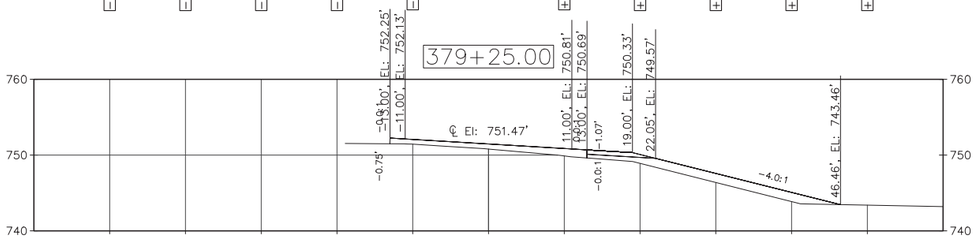
Total Volume at Station 380+00.00	
Cut Area (SF)	0.00
Fill Area (SF)	50.42
Cut Volume (CY)	0
Fill Volume (CY)	46



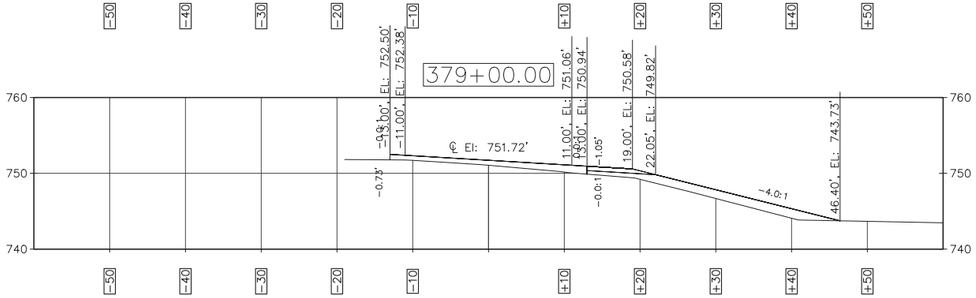
Total Volume at Station 379+75.00	
Cut Area (SF)	0.00
Fill Area (SF)	48.15
Cut Volume (CY)	0
Fill Volume (CY)	46



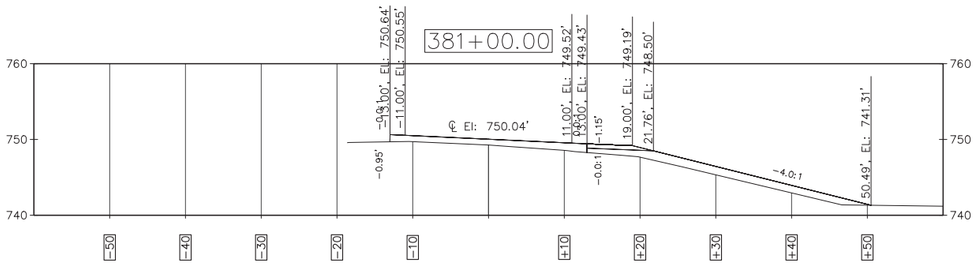
Total Volume at Station 379+50.00	
Cut Area (SF)	0.00
Fill Area (SF)	50.47
Cut Volume (CY)	0
Fill Volume (CY)	47



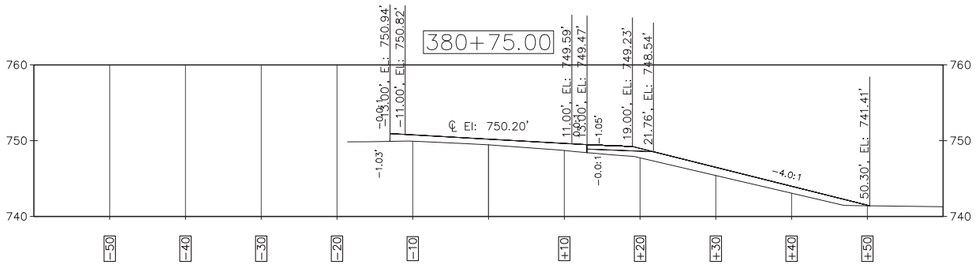
Total Volume at Station 379+25.00	
Cut Area (SF)	0.00
Fill Area (SF)	51.80
Cut Volume (CY)	0
Fill Volume (CY)	47



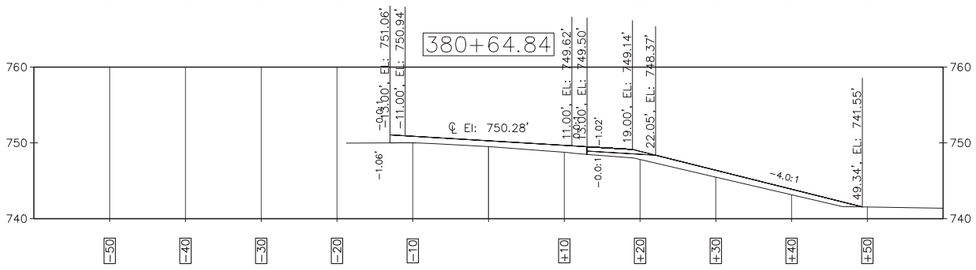
Total Volume at Station 379+00.00	
Cut Area (SF)	0.00
Fill Area (SF)	50.61
Cut Volume (CY)	0
Fill Volume (CY)	48



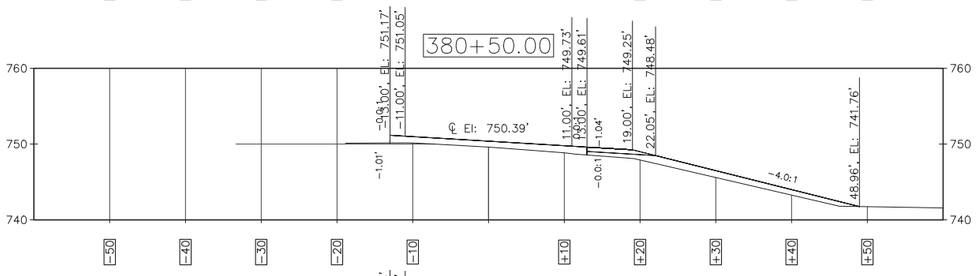
Total Volume at Station 381+00.00	
Cut Area (SF)	0.00
Fill Area (SF)	57.57
Cut Volume (CY)	0
Fill Volume (CY)	52



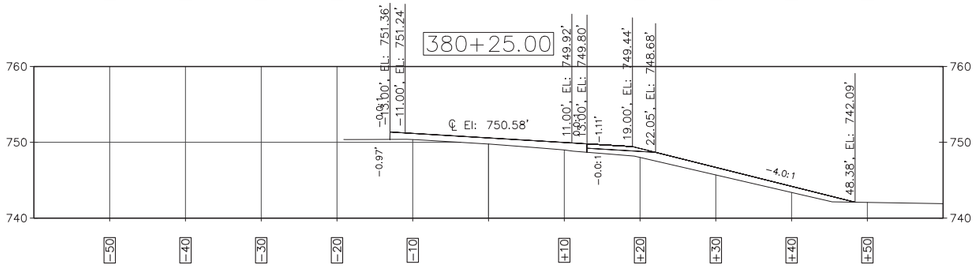
Total Volume at Station 380+75.00	
Cut Area (SF)	0.00
Fill Area (SF)	55.10
Cut Volume (CY)	0
Fill Volume (CY)	20



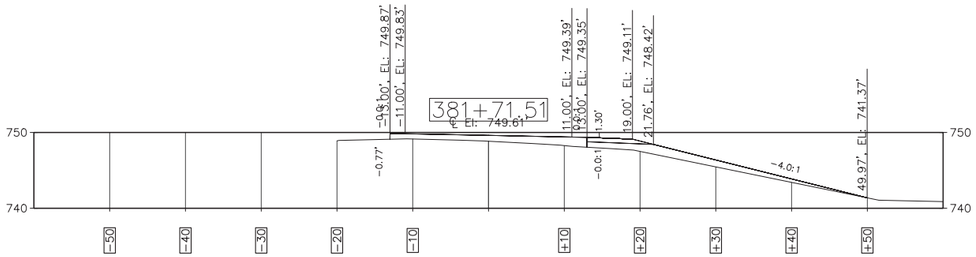
Total Volume at Station 380+64.84	
Cut Area (SF)	0.00
Fill Area (SF)	48.76
Cut Volume (CY)	0
Fill Volume (CY)	27



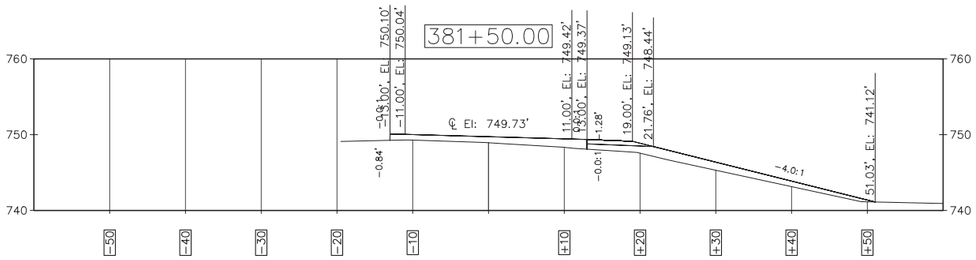
Total Volume at Station 380+50.00	
Cut Area (SF)	0.00
Fill Area (SF)	48.85
Cut Volume (CY)	0
Fill Volume (CY)	47



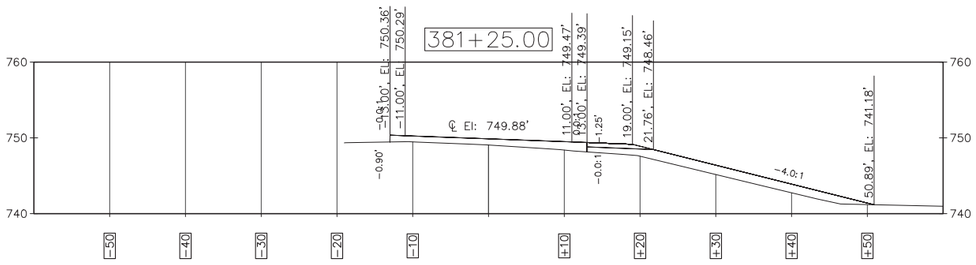
Total Volume at Station 380+25.00	
Cut Area (SF)	0.00
Fill Area (SF)	51.76
Cut Volume (CY)	0
Fill Volume (CY)	47



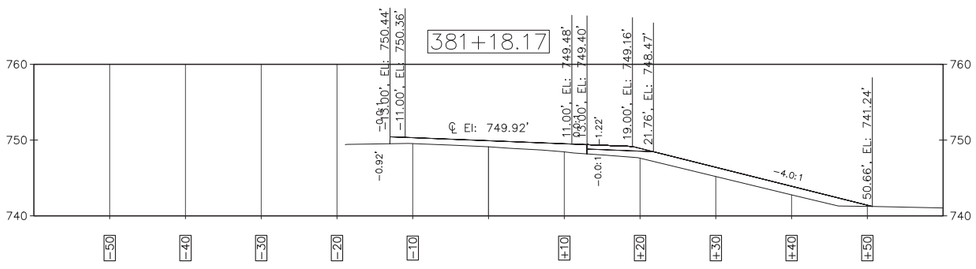
Total Volume at Station 381+71.51	
Cut Area (SF)	0.00
Fill Area (SF)	48.07
Cut Volume (CY)	0
Fill Volume (CY)	41



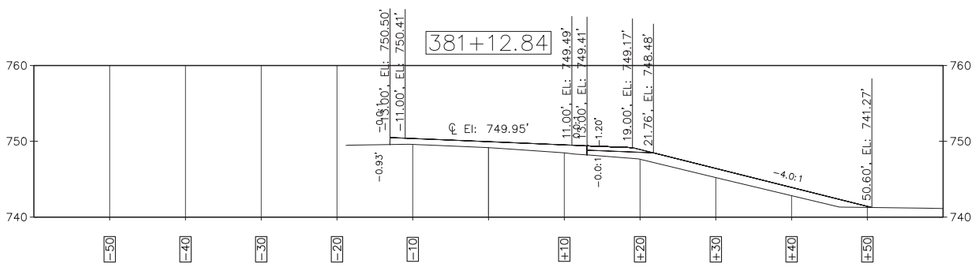
Total Volume at Station 381+50.00	
Cut Area (SF)	0.00
Fill Area (SF)	55.20
Cut Volume (CY)	0
Fill Volume (CY)	55



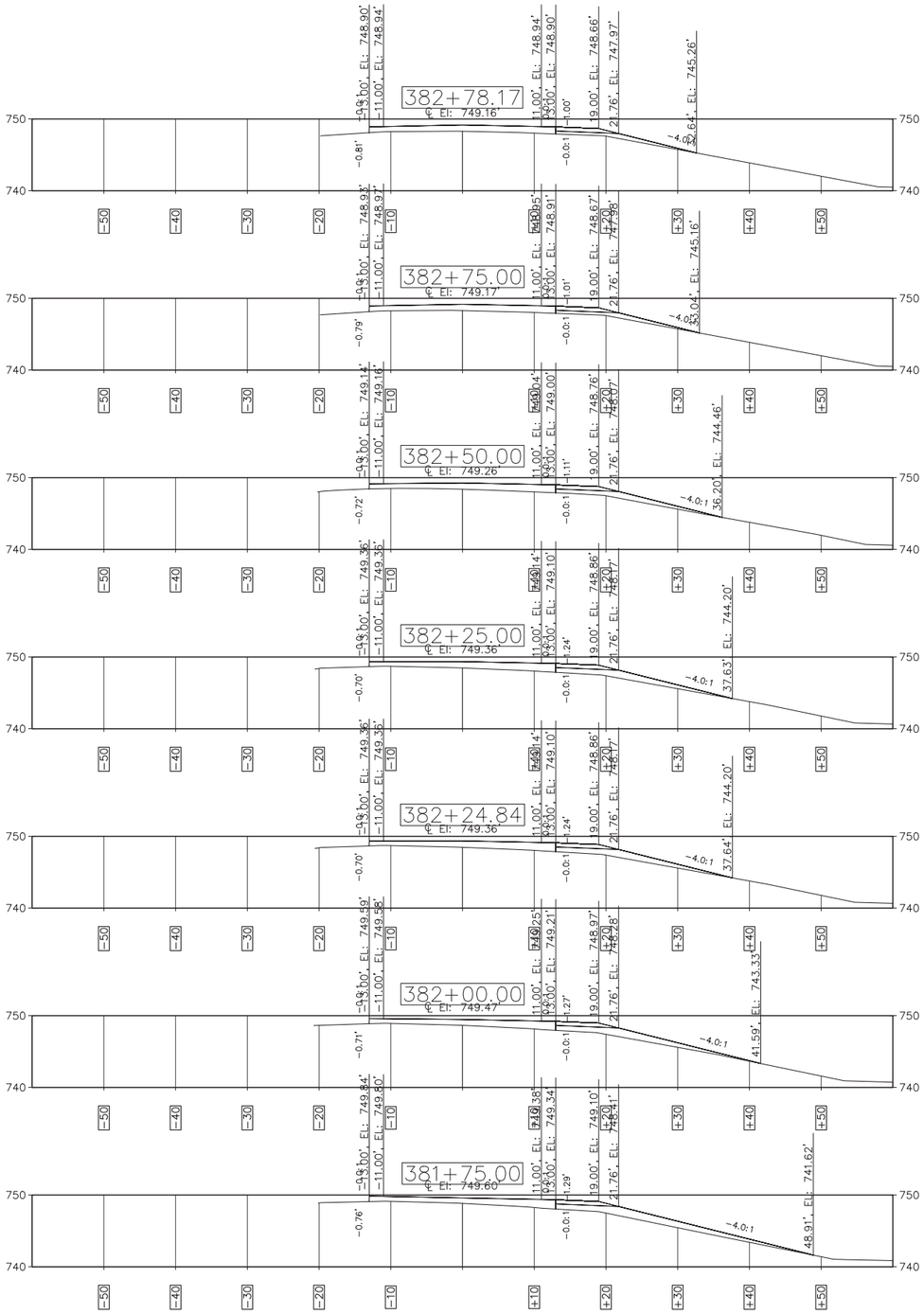
Total Volume at Station 381+25.00	
Cut Area (SF)	0.00
Fill Area (SF)	62.53
Cut Volume (CY)	0
Fill Volume (CY)	16



Total Volume at Station 381+18.17	
Cut Area (SF)	0.00
Fill Area (SF)	61.54
Cut Volume (CY)	0
Fill Volume (CY)	12



Total Volume at Station 381+12.84	
Cut Area (SF)	0.00
Fill Area (SF)	60.52
Cut Volume (CY)	0
Fill Volume (CY)	28



Total Volume at Station 382+78.17	
Cut Area (SF)	1.12
Fill Area (SF)	29.88
Cut Volume (CY)	0
Fill Volume (CY)	4

Total Volume at Station 382+75.00	
Cut Area (SF)	1.09
Fill Area (SF)	30.18
Cut Volume (CY)	1
Fill Volume (CY)	30

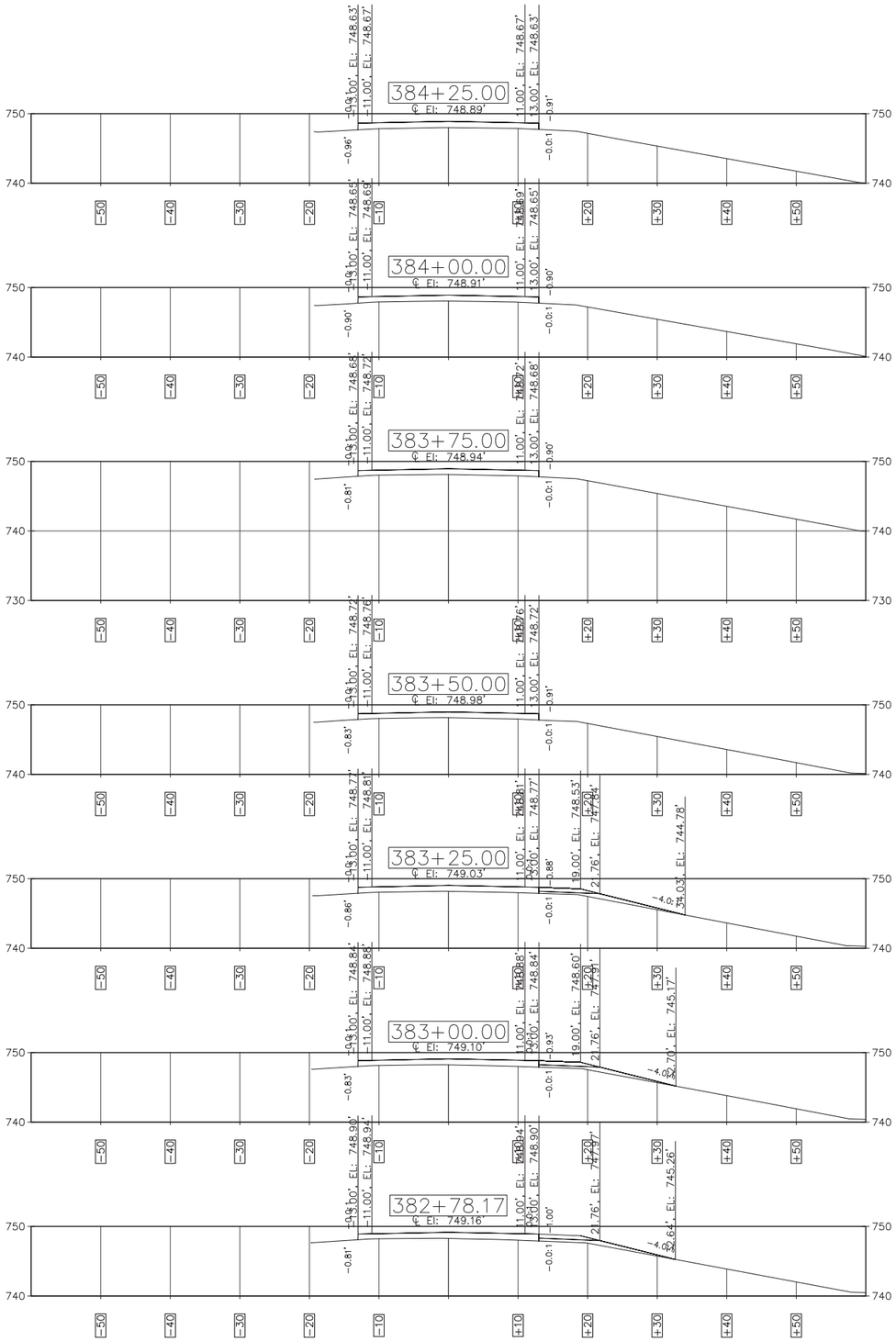
Total Volume at Station 382+50.00	
Cut Area (SF)	0.95
Fill Area (SF)	34.41
Cut Volume (CY)	1
Fill Volume (CY)	34

Total Volume at Station 382+25.00	
Cut Area (SF)	1.42
Fill Area (SF)	38.89
Cut Volume (CY)	0
Fill Volume (CY)	0

Total Volume at Station 382+24.84	
Cut Area (SF)	1.42
Fill Area (SF)	38.90
Cut Volume (CY)	1
Fill Volume (CY)	37

Total Volume at Station 382+00.00	
Cut Area (SF)	0.57
Fill Area (SF)	40.52
Cut Volume (CY)	0
Fill Volume (CY)	41

Total Volume at Station 381+75.00	
Cut Area (SF)	0.01
Fill Area (SF)	47.47
Cut Volume (CY)	0
Fill Volume (CY)	6



Total Volume at Station 384+25.00	
Cut Area (SF)	2.09
Fill Area (SF)	22.68
Cut Volume (CY)	3
Fill Volume (CY)	20

Total Volume at Station 384+00.00	
Cut Area (SF)	3.55
Fill Area (SF)	21.46
Cut Volume (CY)	4
Fill Volume (CY)	20

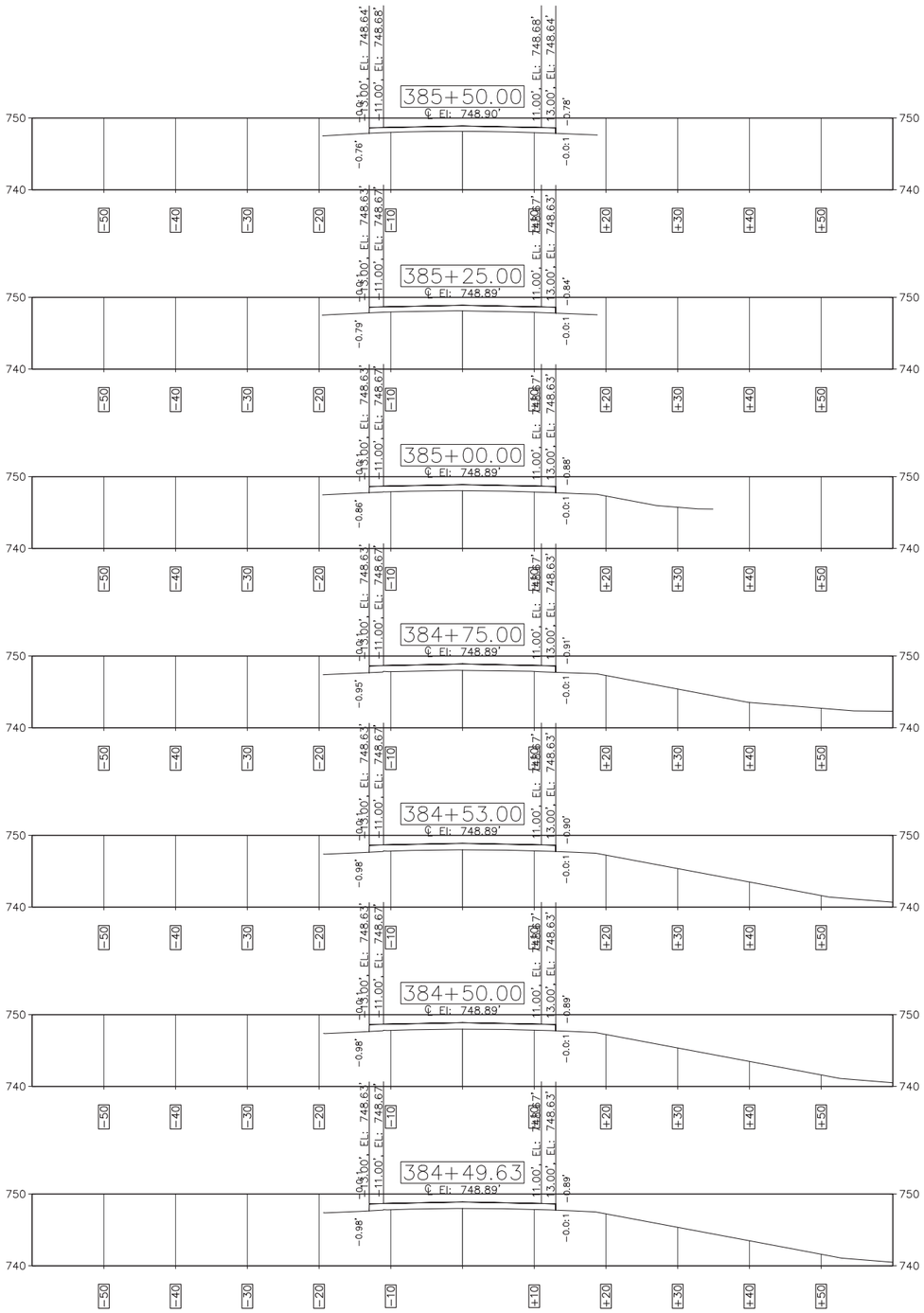
Total Volume at Station 383+75.00	
Cut Area (SF)	4.47
Fill Area (SF)	20.68
Cut Volume (CY)	5
Fill Volume (CY)	19

Total Volume at Station 383+50.00	
Cut Area (SF)	5.71
Fill Area (SF)	20.89
Cut Volume (CY)	3
Fill Volume (CY)	23

Total Volume at Station 383+25.00	
Cut Area (SF)	0.00
Fill Area (SF)	29.08
Cut Volume (CY)	0
Fill Volume (CY)	27

Total Volume at Station 383+00.00	
Cut Area (SF)	0.44
Fill Area (SF)	28.80
Cut Volume (CY)	1
Fill Volume (CY)	24

Total Volume at Station 382+78.17	
Cut Area (SF)	1.12
Fill Area (SF)	29.88
Cut Volume (CY)	0
Fill Volume (CY)	0



Total Volume at Station 385+50.00	
Cut Area (SF)	0.00
Fill Area (SF)	18.71
Cut Volume (CY)	0
Fill Volume (CY)	18

Total Volume at Station 385+25.00	
Cut Area (SF)	0.00
Fill Area (SF)	19.81
Cut Volume (CY)	0
Fill Volume (CY)	19

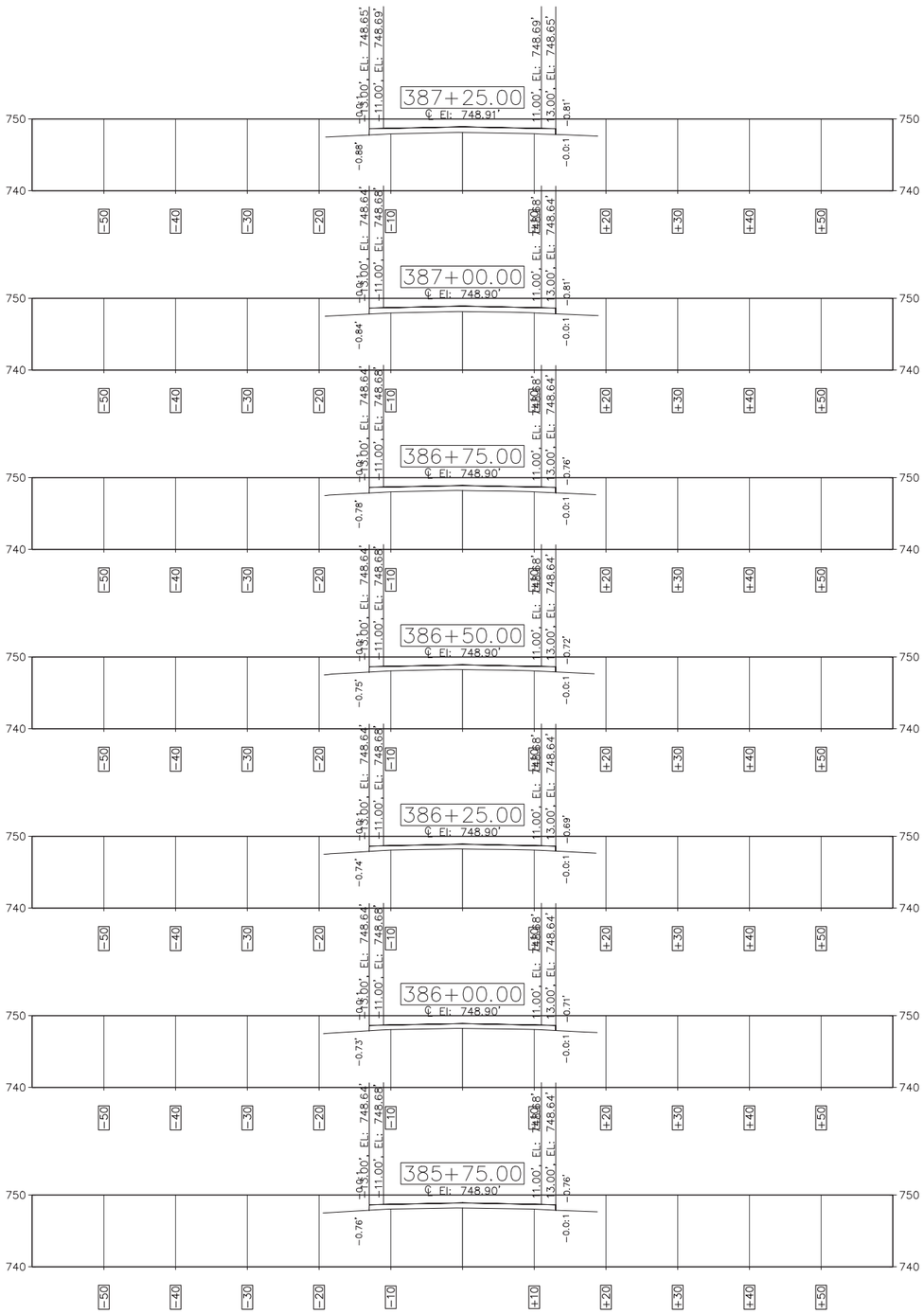
Total Volume at Station 385+00.00	
Cut Area (SF)	0.00
Fill Area (SF)	21.28
Cut Volume (CY)	0
Fill Volume (CY)	20

Total Volume at Station 384+75.00	
Cut Area (SF)	0.00
Fill Area (SF)	22.64
Cut Volume (CY)	0
Fill Volume (CY)	18

Total Volume at Station 384+53.00	
Cut Area (SF)	0.52
Fill Area (SF)	22.74
Cut Volume (CY)	0
Fill Volume (CY)	3

Total Volume at Station 384+50.00	
Cut Area (SF)	0.67
Fill Area (SF)	22.71
Cut Volume (CY)	0
Fill Volume (CY)	0

Total Volume at Station 384+49.63	
Cut Area (SF)	0.68
Fill Area (SF)	22.70
Cut Volume (CY)	1
Fill Volume (CY)	21



Total Volume at Station 387+25.00	
Cut Area (SF)	0.00
Fill Area (SF)	20.35
Cut Volume (CY)	0
Fill Volume (CY)	18

Total Volume at Station 387+00.00	
Cut Area (SF)	0.00
Fill Area (SF)	19.44
Cut Volume (CY)	0
Fill Volume (CY)	17

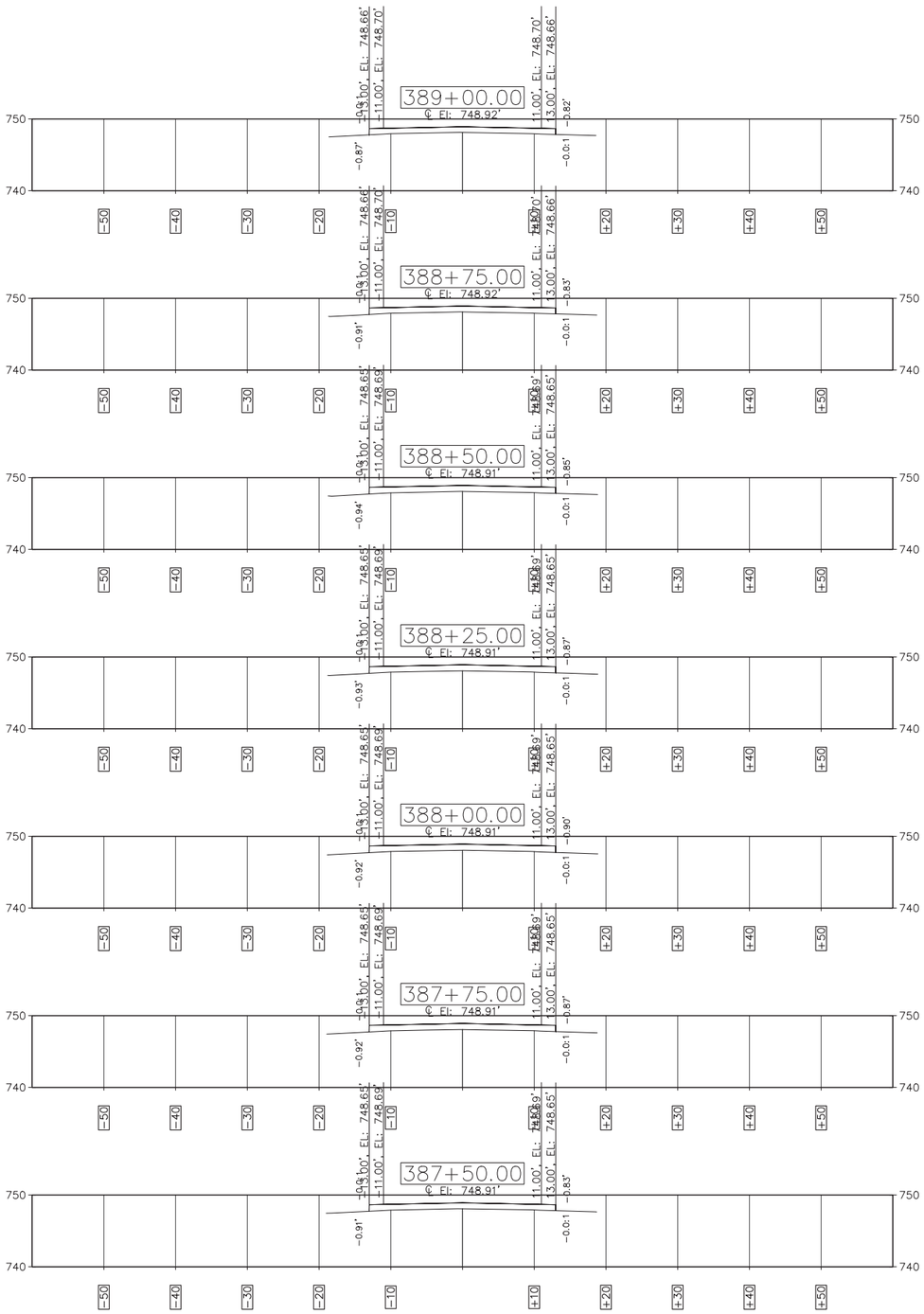
Total Volume at Station 386+75.00	
Cut Area (SF)	0.00
Fill Area (SF)	17.93
Cut Volume (CY)	0
Fill Volume (CY)	16

Total Volume at Station 386+50.00	
Cut Area (SF)	0.00
Fill Area (SF)	16.78
Cut Volume (CY)	0
Fill Volume (CY)	15

Total Volume at Station 386+25.00	
Cut Area (SF)	0.00
Fill Area (SF)	16.67
Cut Volume (CY)	0
Fill Volume (CY)	16

Total Volume at Station 386+00.00	
Cut Area (SF)	0.00
Fill Area (SF)	16.93
Cut Volume (CY)	0
Fill Volume (CY)	16

Total Volume at Station 385+75.00	
Cut Area (SF)	0.00
Fill Area (SF)	17.79
Cut Volume (CY)	0
Fill Volume (CY)	17



Total Volume at Station 389+00.00	
Cut Area (SF)	0.00
Fill Area (SF)	20.36
Cut Volume (CY)	0
Fill Volume (CY)	19

Total Volume at Station 388+75.00	
Cut Area (SF)	0.00
Fill Area (SF)	21.06
Cut Volume (CY)	0
Fill Volume (CY)	20

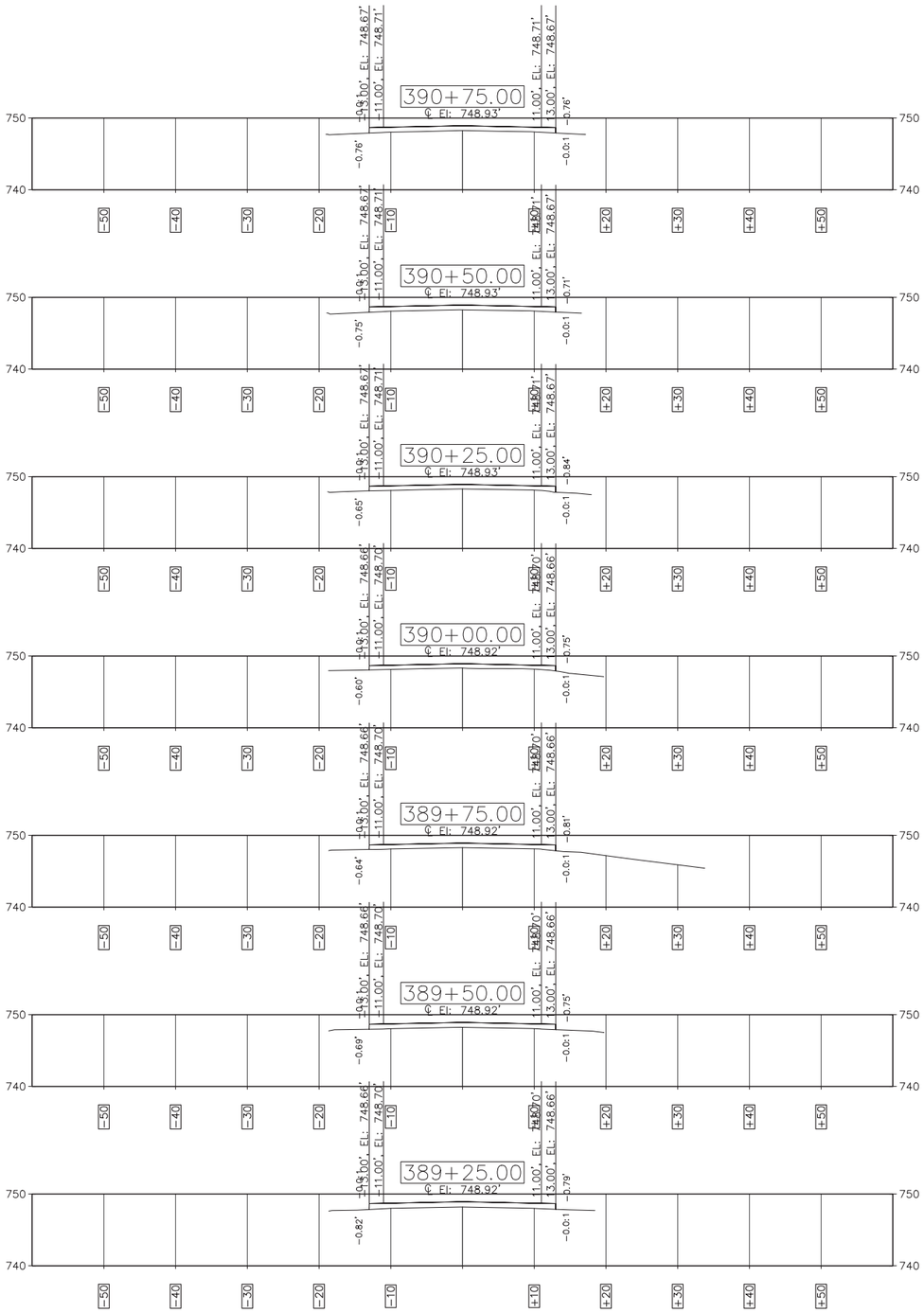
Total Volume at Station 388+50.00	
Cut Area (SF)	0.00
Fill Area (SF)	21.60
Cut Volume (CY)	0
Fill Volume (CY)	20

Total Volume at Station 388+25.00	
Cut Area (SF)	0.00
Fill Area (SF)	21.77
Cut Volume (CY)	0
Fill Volume (CY)	20

Total Volume at Station 388+00.00	
Cut Area (SF)	0.00
Fill Area (SF)	22.03
Cut Volume (CY)	0
Fill Volume (CY)	20

Total Volume at Station 387+75.00	
Cut Area (SF)	0.00
Fill Area (SF)	21.61
Cut Volume (CY)	0
Fill Volume (CY)	20

Total Volume at Station 387+50.00	
Cut Area (SF)	0.00
Fill Area (SF)	21.18
Cut Volume (CY)	0
Fill Volume (CY)	19



Total Volume at Station 390+75.00	
Cut Area (SF)	0.00
Fill Area (SF)	17.83
Cut Volume (CY)	0
Fill Volume (CY)	16

Total Volume at Station 390+50.00	
Cut Area (SF)	0.00
Fill Area (SF)	17.11
Cut Volume (CY)	0
Fill Volume (CY)	15

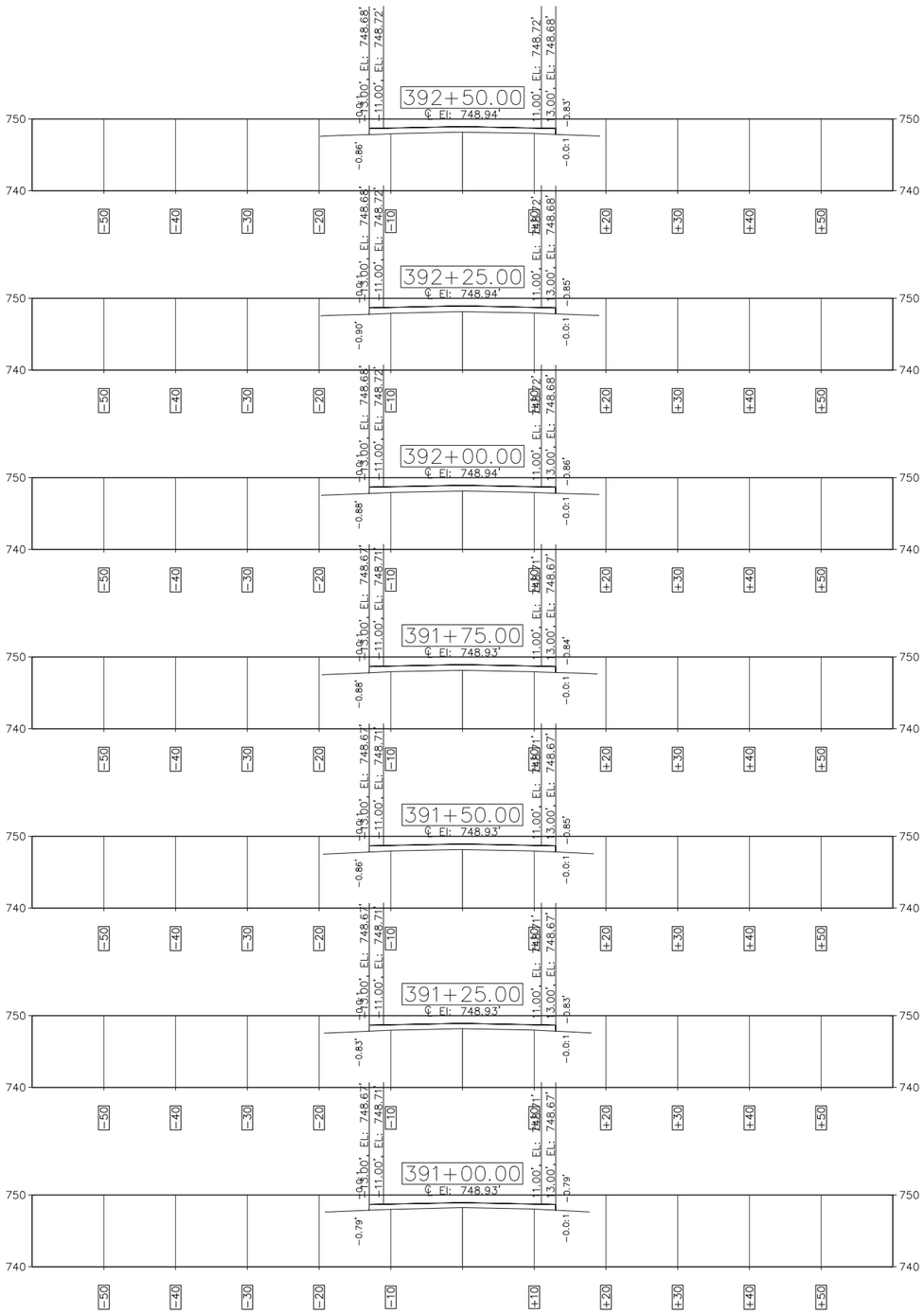
Total Volume at Station 390+25.00	
Cut Area (SF)	0.00
Fill Area (SF)	16.35
Cut Volume (CY)	0
Fill Volume (CY)	15

Total Volume at Station 390+00.00	
Cut Area (SF)	0.00
Fill Area (SF)	15.41
Cut Volume (CY)	0
Fill Volume (CY)	15

Total Volume at Station 389+75.00	
Cut Area (SF)	0.00
Fill Area (SF)	16.50
Cut Volume (CY)	0
Fill Volume (CY)	16

Total Volume at Station 389+50.00	
Cut Area (SF)	0.00
Fill Area (SF)	17.61
Cut Volume (CY)	0
Fill Volume (CY)	17

Total Volume at Station 389+25.00	
Cut Area (SF)	0.00
Fill Area (SF)	18.99
Cut Volume (CY)	0
Fill Volume (CY)	18



Total Volume at Station 392+50.00	
Cut Area (SF)	0.00
Fill Area (SF)	20.44
Cut Volume (CY)	0
Fill Volume (CY)	19

Total Volume at Station 392+25.00	
Cut Area (SF)	0.00
Fill Area (SF)	21.12
Cut Volume (CY)	0
Fill Volume (CY)	20

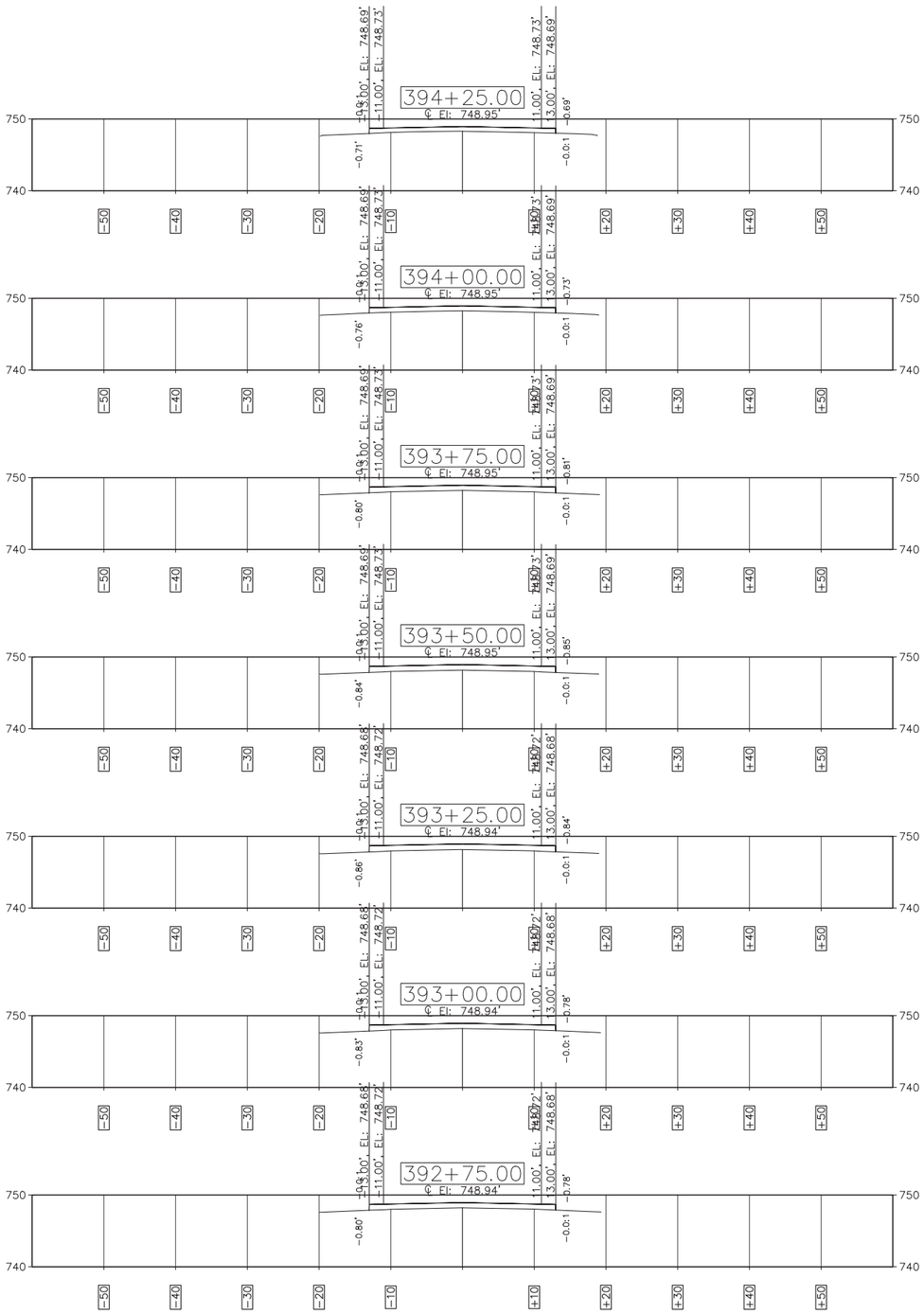
Total Volume at Station 392+00.00	
Cut Area (SF)	0.00
Fill Area (SF)	21.02
Cut Volume (CY)	0
Fill Volume (CY)	19

Total Volume at Station 391+75.00	
Cut Area (SF)	0.00
Fill Area (SF)	20.85
Cut Volume (CY)	0
Fill Volume (CY)	19

Total Volume at Station 391+50.00	
Cut Area (SF)	0.00
Fill Area (SF)	20.47
Cut Volume (CY)	0
Fill Volume (CY)	19

Total Volume at Station 391+25.00	
Cut Area (SF)	0.00
Fill Area (SF)	19.61
Cut Volume (CY)	0
Fill Volume (CY)	18

Total Volume at Station 391+00.00	
Cut Area (SF)	0.00
Fill Area (SF)	18.45
Cut Volume (CY)	0
Fill Volume (CY)	17



Total Volume at Station 394+25.00	
Cut Area (SF)	0.00
Fill Area (SF)	16.89
Cut Volume (CY)	0
Fill Volume (CY)	16

Total Volume at Station 394+00.00	
Cut Area (SF)	0.00
Fill Area (SF)	17.96
Cut Volume (CY)	0
Fill Volume (CY)	17

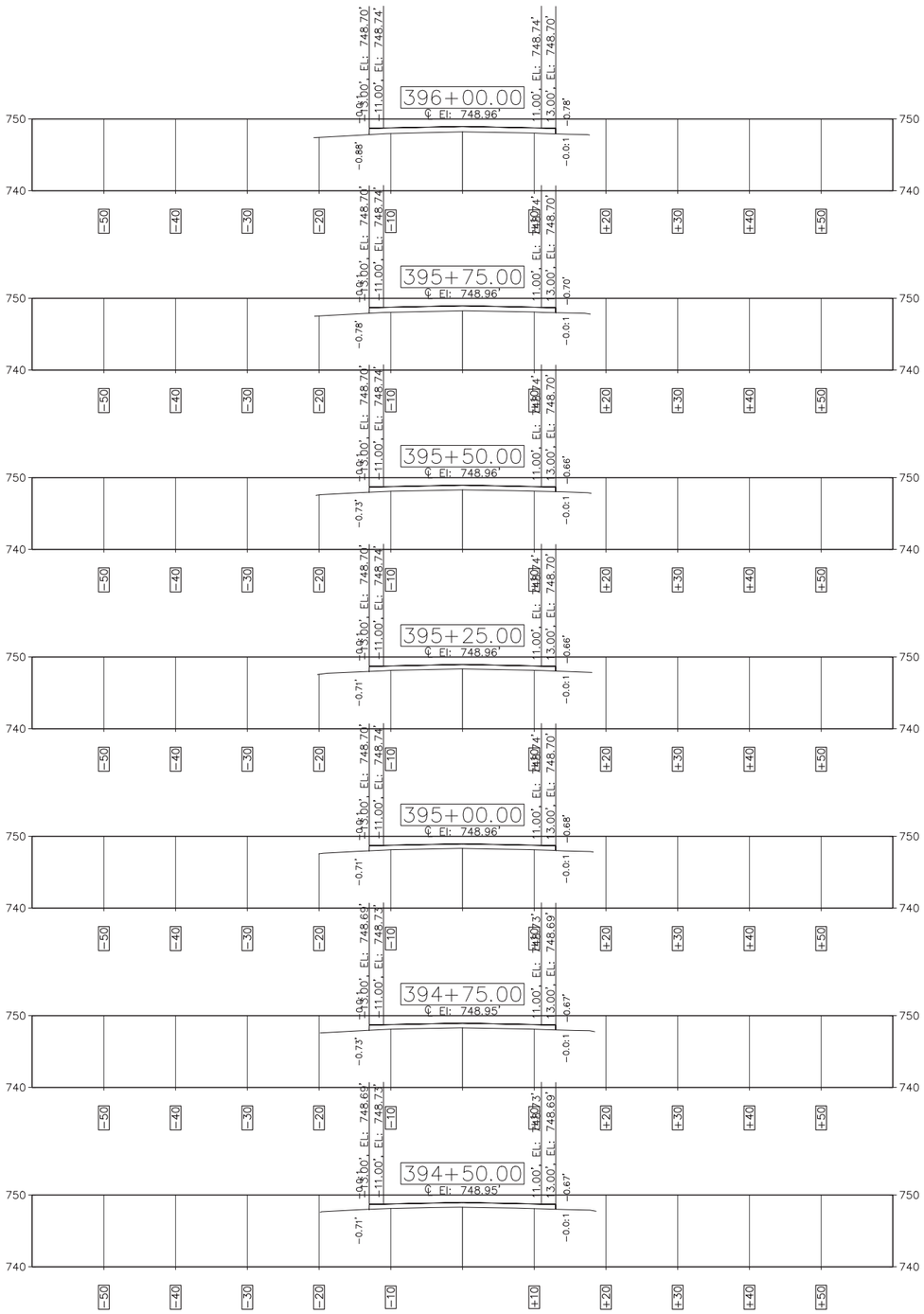
Total Volume at Station 393+75.00	
Cut Area (SF)	0.00
Fill Area (SF)	19.11
Cut Volume (CY)	0
Fill Volume (CY)	18

Total Volume at Station 393+50.00	
Cut Area (SF)	0.00
Fill Area (SF)	20.31
Cut Volume (CY)	0
Fill Volume (CY)	19

Total Volume at Station 393+25.00	
Cut Area (SF)	0.00
Fill Area (SF)	20.55
Cut Volume (CY)	0
Fill Volume (CY)	18

Total Volume at Station 393+00.00	
Cut Area (SF)	0.00
Fill Area (SF)	19.23
Cut Volume (CY)	0
Fill Volume (CY)	18

Total Volume at Station 392+75.00	
Cut Area (SF)	0.00
Fill Area (SF)	19.02
Cut Volume (CY)	0
Fill Volume (CY)	18



Total Volume at Station 396+00.00	
Cut Area (SF)	0.00
Fill Area (SF)	19.81
Cut Volume (CY)	0
Fill Volume (CY)	18

Total Volume at Station 395+75.00	
Cut Area (SF)	0.00
Fill Area (SF)	18.13
Cut Volume (CY)	0
Fill Volume (CY)	16

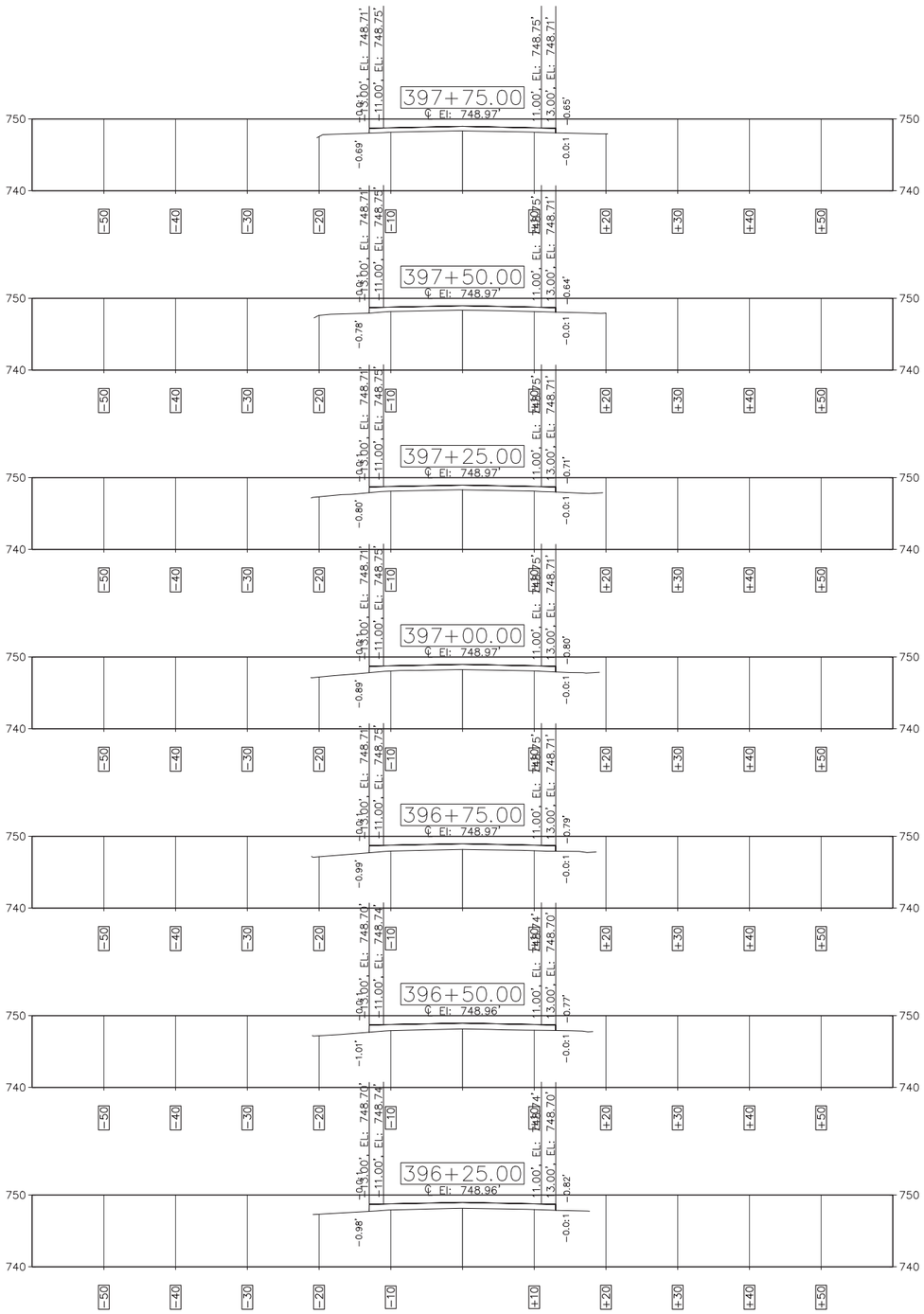
Total Volume at Station 395+50.00	
Cut Area (SF)	0.00
Fill Area (SF)	17.08
Cut Volume (CY)	0
Fill Volume (CY)	15

Total Volume at Station 395+25.00	
Cut Area (SF)	0.00
Fill Area (SF)	16.31
Cut Volume (CY)	0
Fill Volume (CY)	15

Total Volume at Station 395+00.00	
Cut Area (SF)	0.00
Fill Area (SF)	16.64
Cut Volume (CY)	0
Fill Volume (CY)	16

Total Volume at Station 394+75.00	
Cut Area (SF)	0.00
Fill Area (SF)	16.87
Cut Volume (CY)	0
Fill Volume (CY)	16

Total Volume at Station 394+50.00	
Cut Area (SF)	0.00
Fill Area (SF)	16.69
Cut Volume (CY)	0
Fill Volume (CY)	16



Total Volume at Station 397+75.00	
Cut Area (SF)	0.00
Fill Area (SF)	16.27
Cut Volume (CY)	0
Fill Volume (CY)	15

Total Volume at Station 397+50.00	
Cut Area (SF)	0.00
Fill Area (SF)	16.19
Cut Volume (CY)	0
Fill Volume (CY)	15

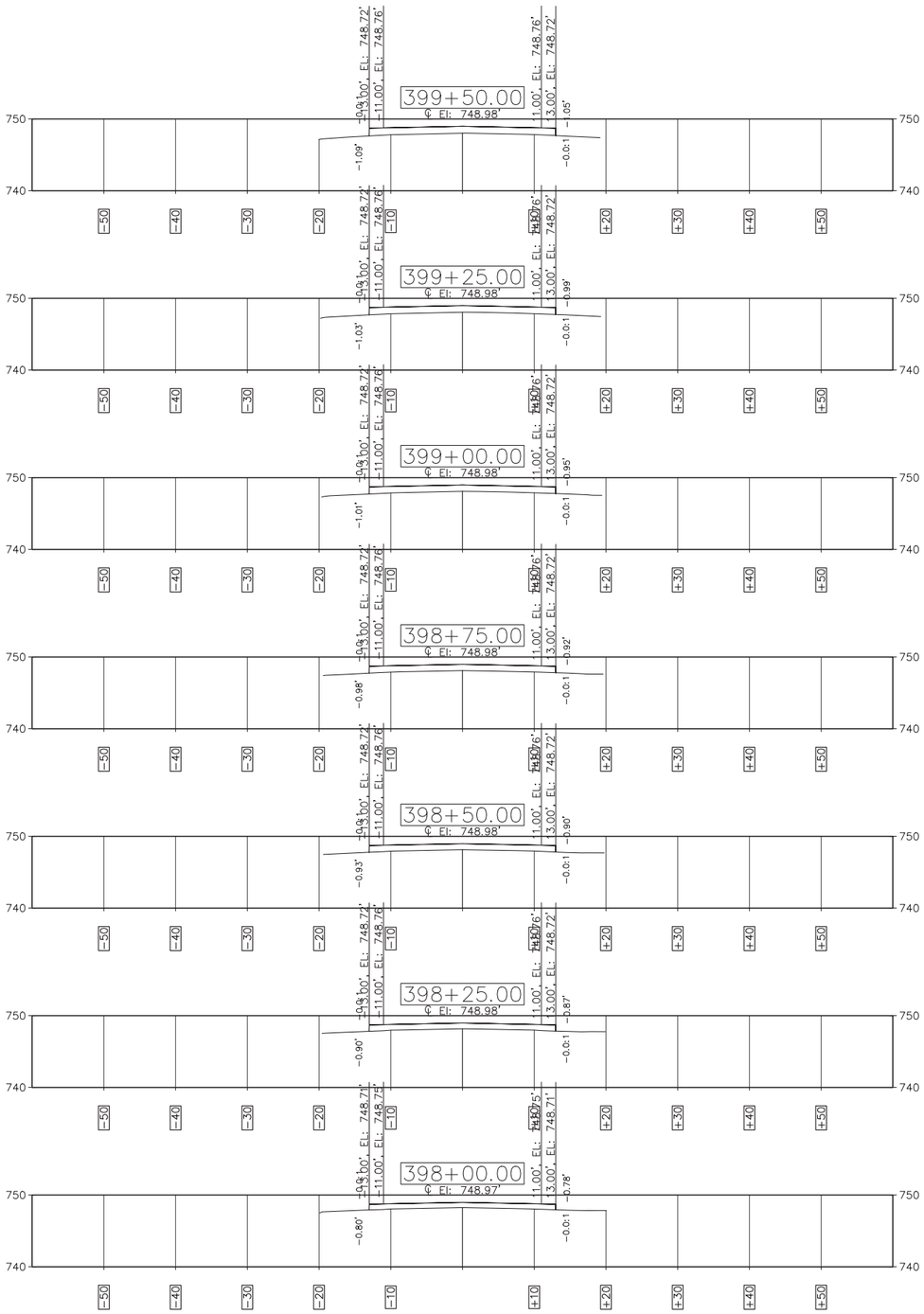
Total Volume at Station 397+25.00	
Cut Area (SF)	0.00
Fill Area (SF)	17.29
Cut Volume (CY)	0
Fill Volume (CY)	17

Total Volume at Station 397+00.00	
Cut Area (SF)	0.00
Fill Area (SF)	19.05
Cut Volume (CY)	0
Fill Volume (CY)	19

Total Volume at Station 396+75.00	
Cut Area (SF)	0.00
Fill Area (SF)	21.02
Cut Volume (CY)	0
Fill Volume (CY)	20

Total Volume at Station 396+50.00	
Cut Area (SF)	0.00
Fill Area (SF)	21.36
Cut Volume (CY)	0
Fill Volume (CY)	20

Total Volume at Station 396+25.00	
Cut Area (SF)	0.00
Fill Area (SF)	21.32
Cut Volume (CY)	0
Fill Volume (CY)	19



Total Volume at Station 399+50.00	
Cut Area (SF)	0.00
Fill Area (SF)	25.40
Cut Volume (CY)	0
Fill Volume (CY)	23

Total Volume at Station 399+25.00	
Cut Area (SF)	0.00
Fill Area (SF)	24.19
Cut Volume (CY)	0
Fill Volume (CY)	22

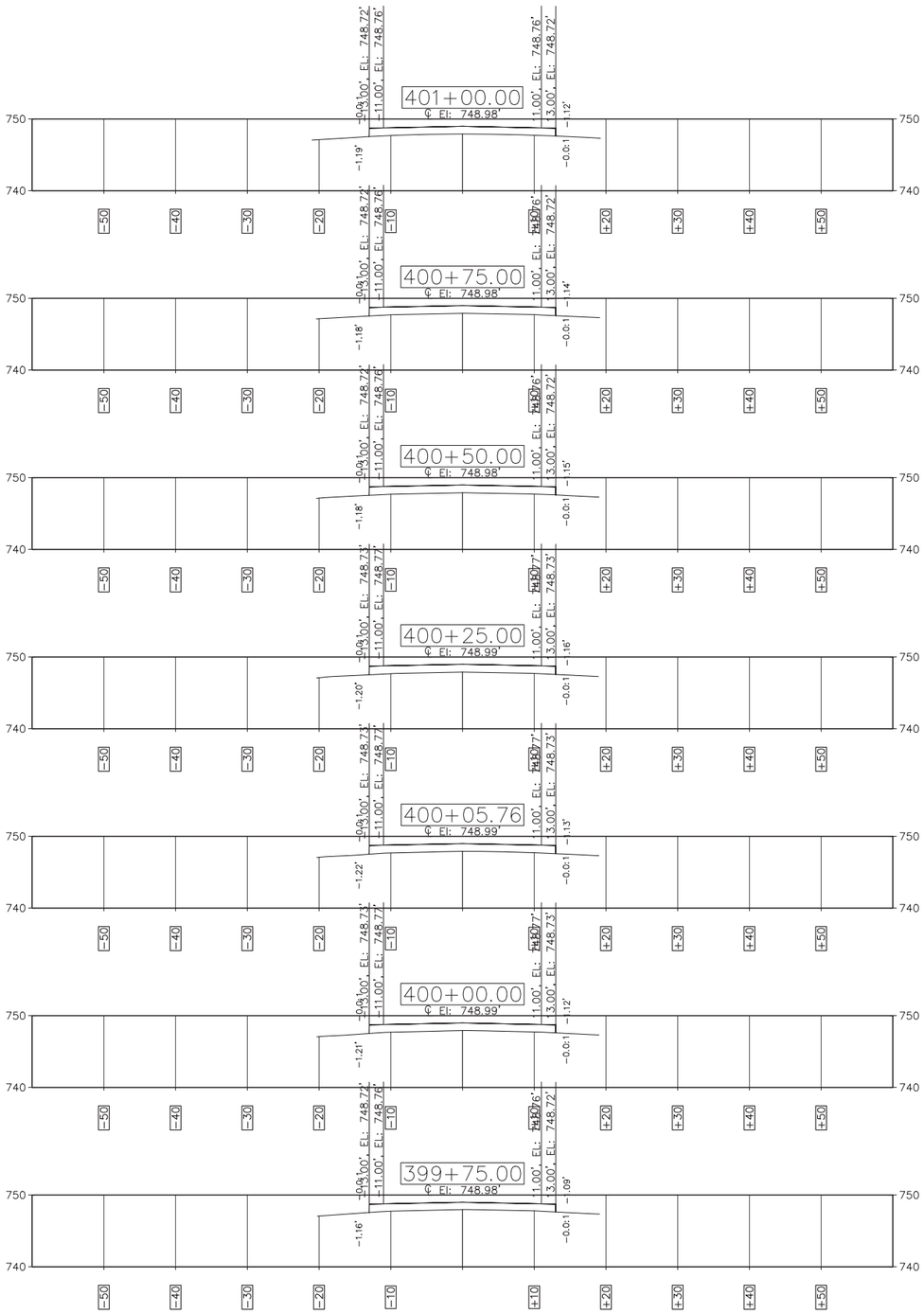
Total Volume at Station 399+00.00	
Cut Area (SF)	0.00
Fill Area (SF)	23.45
Cut Volume (CY)	0
Fill Volume (CY)	21

Total Volume at Station 398+75.00	
Cut Area (SF)	0.00
Fill Area (SF)	22.92
Cut Volume (CY)	0
Fill Volume (CY)	21

Total Volume at Station 398+50.00	
Cut Area (SF)	0.00
Fill Area (SF)	22.10
Cut Volume (CY)	0
Fill Volume (CY)	20

Total Volume at Station 398+25.00	
Cut Area (SF)	0.00
Fill Area (SF)	21.02
Cut Volume (CY)	0
Fill Volume (CY)	19

Total Volume at Station 398+00.00	
Cut Area (SF)	0.00
Fill Area (SF)	19.01
Cut Volume (CY)	0
Fill Volume (CY)	16



Total Volume at Station 401+00.00	
Cut Area (SF)	0.00
Fill Area (SF)	27.74
Cut Volume (CY)	0
Fill Volume (CY)	26

Total Volume at Station 400+75.00	
Cut Area (SF)	0.00
Fill Area (SF)	28.18
Cut Volume (CY)	0
Fill Volume (CY)	26

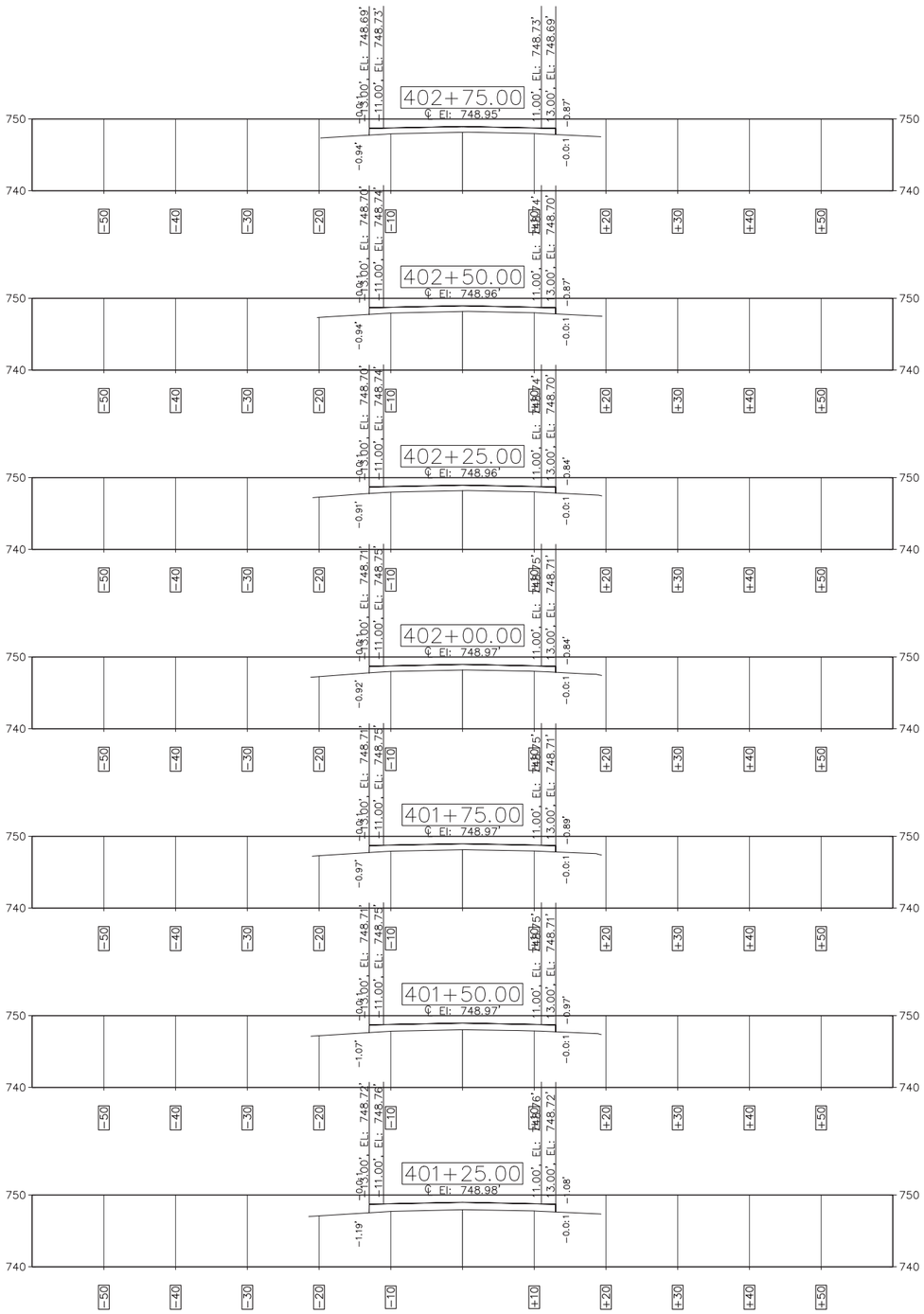
Total Volume at Station 400+50.00	
Cut Area (SF)	0.00
Fill Area (SF)	28.41
Cut Volume (CY)	0
Fill Volume (CY)	26

Total Volume at Station 400+25.00	
Cut Area (SF)	0.00
Fill Area (SF)	28.55
Cut Volume (CY)	0
Fill Volume (CY)	20

Total Volume at Station 400+05.76	
Cut Area (SF)	0.00
Fill Area (SF)	28.07
Cut Volume (CY)	0
Fill Volume (CY)	6

Total Volume at Station 400+00.00	
Cut Area (SF)	0.00
Fill Area (SF)	27.90
Cut Volume (CY)	0
Fill Volume (CY)	25

Total Volume at Station 399+75.00	
Cut Area (SF)	0.00
Fill Area (SF)	26.61
Cut Volume (CY)	0
Fill Volume (CY)	24



Total Volume at Station 402+75.00	
Cut Area (SF)	0.00
Fill Area (SF)	21.11
Cut Volume (CY)	0
Fill Volume (CY)	19

Total Volume at Station 402+50.00	
Cut Area (SF)	0.00
Fill Area (SF)	20.84
Cut Volume (CY)	0
Fill Volume (CY)	19

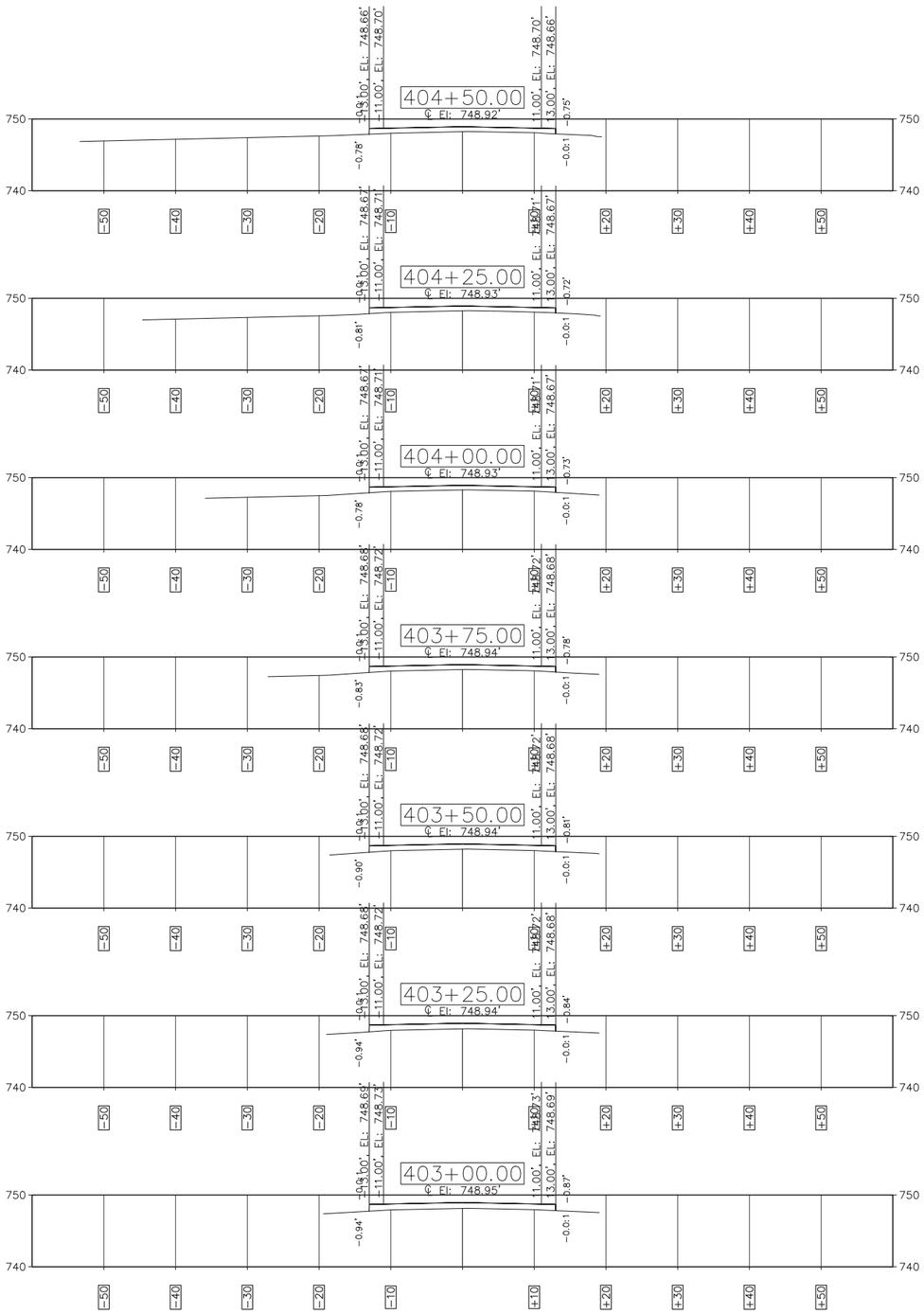
Total Volume at Station 402+25.00	
Cut Area (SF)	0.00
Fill Area (SF)	20.15
Cut Volume (CY)	0
Fill Volume (CY)	19

Total Volume at Station 402+00.00	
Cut Area (SF)	0.00
Fill Area (SF)	20.33
Cut Volume (CY)	0
Fill Volume (CY)	20

Total Volume at Station 401+75.00	
Cut Area (SF)	0.00
Fill Area (SF)	21.92
Cut Volume (CY)	0
Fill Volume (CY)	21

Total Volume at Station 401+50.00	
Cut Area (SF)	0.00
Fill Area (SF)	24.35
Cut Volume (CY)	0
Fill Volume (CY)	24

Total Volume at Station 401+25.00	
Cut Area (SF)	0.00
Fill Area (SF)	27.03
Cut Volume (CY)	0
Fill Volume (CY)	25



Total Volume at Station 404+50.00	
Cut Area (SF)	0.00
Fill Area (SF)	17.91
Cut Volume (CY)	0
Fill Volume (CY)	16

Total Volume at Station 404+25.00	
Cut Area (SF)	0.00
Fill Area (SF)	17.37
Cut Volume (CY)	0
Fill Volume (CY)	16

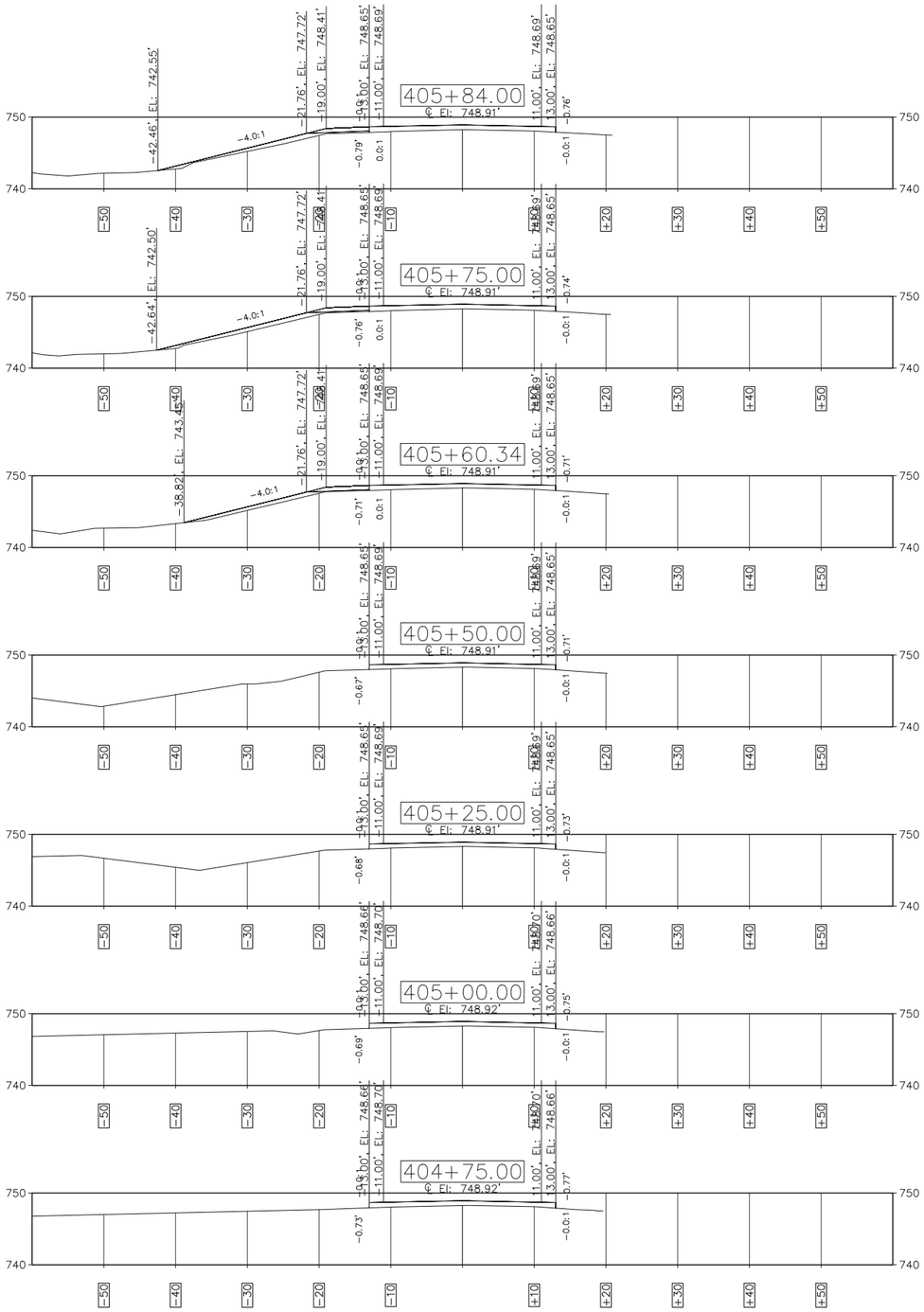
Total Volume at Station 404+00.00	
Cut Area (SF)	0.00
Fill Area (SF)	16.75
Cut Volume (CY)	0
Fill Volume (CY)	16

Total Volume at Station 403+75.00	
Cut Area (SF)	0.00
Fill Area (SF)	17.99
Cut Volume (CY)	0
Fill Volume (CY)	17

Total Volume at Station 403+50.00	
Cut Area (SF)	0.00
Fill Area (SF)	19.33
Cut Volume (CY)	0
Fill Volume (CY)	18

Total Volume at Station 403+25.00	
Cut Area (SF)	0.00
Fill Area (SF)	20.38
Cut Volume (CY)	0
Fill Volume (CY)	19

Total Volume at Station 403+00.00	
Cut Area (SF)	0.00
Fill Area (SF)	21.25
Cut Volume (CY)	0
Fill Volume (CY)	20



Total Volume at Station 405+84.00	
Cut Area (SF)	0.00
Fill Area (SF)	28.90
Cut Volume (CY)	0
Fill Volume (CY)	10

Total Volume at Station 405+75.00	
Cut Area (SF)	0.00
Fill Area (SF)	29.16
Cut Volume (CY)	0
Fill Volume (CY)	15

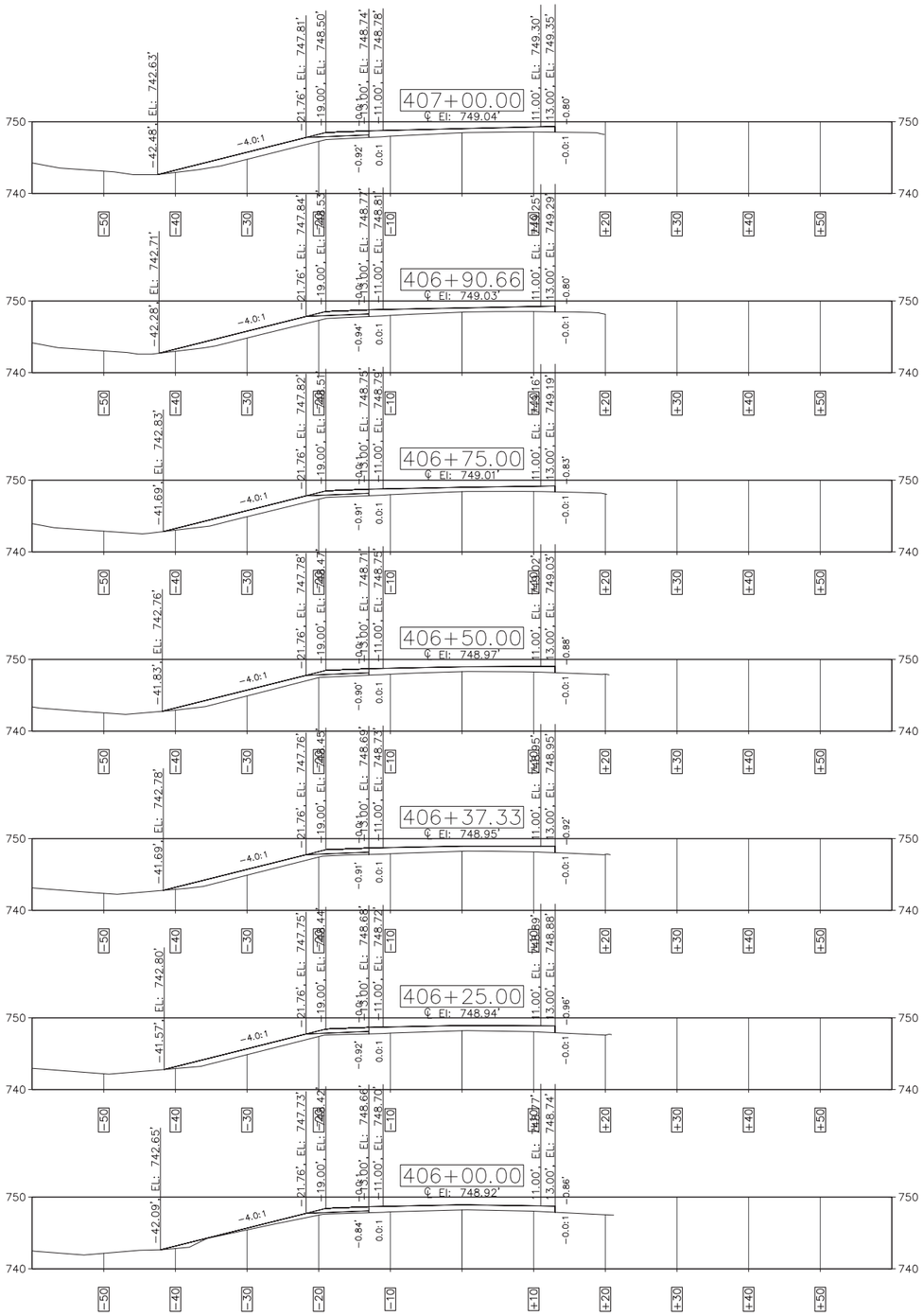
Total Volume at Station 405+60.34	
Cut Area (SF)	0.00
Fill Area (SF)	25.55
Cut Volume (CY)	1
Fill Volume (CY)	9

Total Volume at Station 405+50.00	
Cut Area (SF)	6.20
Fill Area (SF)	19.16
Cut Volume (CY)	9
Fill Volume (CY)	16

Total Volume at Station 405+25.00	
Cut Area (SF)	12.17
Fill Area (SF)	15.92
Cut Volume (CY)	10
Fill Volume (CY)	15

Total Volume at Station 405+00.00	
Cut Area (SF)	8.53
Fill Area (SF)	16.57
Cut Volume (CY)	5
Fill Volume (CY)	16

Total Volume at Station 404+75.00	
Cut Area (SF)	2.50
Fill Area (SF)	17.27
Cut Volume (CY)	1
Fill Volume (CY)	16



Total Volume at Station 407+00.00	
Cut Area (SF)	0.00
Fill Area (SF)	38.84
Cut Volume (CY)	0
Fill Volume (CY)	13

Total Volume at Station 406+90.66	
Cut Area (SF)	0.00
Fill Area (SF)	38.48
Cut Volume (CY)	0
Fill Volume (CY)	22

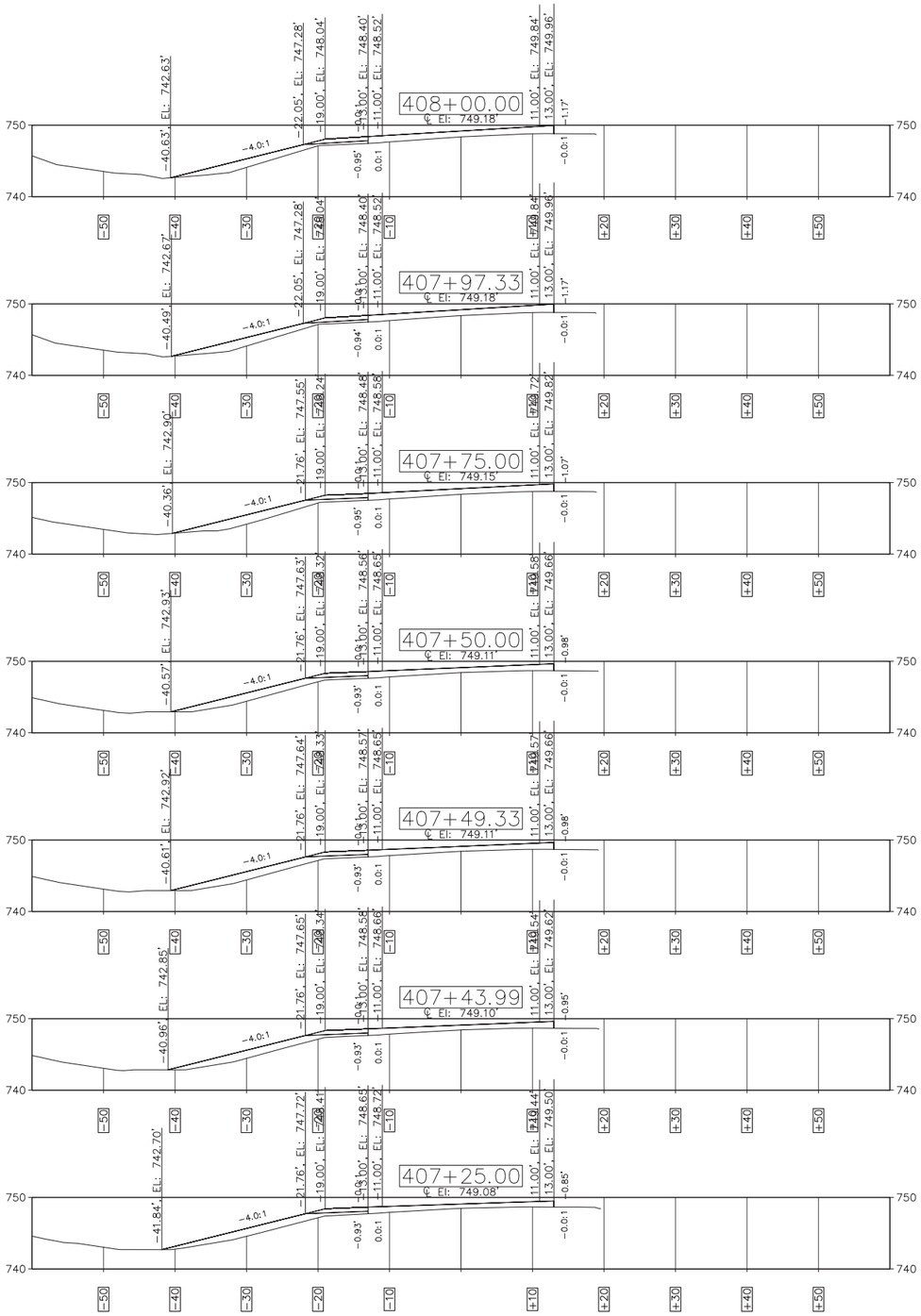
Total Volume at Station 406+75.00	
Cut Area (SF)	0.00
Fill Area (SF)	36.56
Cut Volume (CY)	0
Fill Volume (CY)	34

Total Volume at Station 406+50.00	
Cut Area (SF)	0.00
Fill Area (SF)	37.10
Cut Volume (CY)	0
Fill Volume (CY)	18

Total Volume at Station 406+37.33	
Cut Area (SF)	0.00
Fill Area (SF)	37.65
Cut Volume (CY)	0
Fill Volume (CY)	17

Total Volume at Station 406+25.00	
Cut Area (SF)	0.00
Fill Area (SF)	38.33
Cut Volume (CY)	0
Fill Volume (CY)	31

Total Volume at Station 406+00.00	
Cut Area (SF)	0.00
Fill Area (SF)	28.30
Cut Volume (CY)	0
Fill Volume (CY)	17



Total Volume at Station 408+00.00	
Cut Area (SF)	0.00
Fill Area (SF)	43.77
Cut Volume (CY)	0
Fill Volume (CY)	4

Total Volume at Station 407+97.33	
Cut Area (SF)	0.00
Fill Area (SF)	43.23
Cut Volume (CY)	0
Fill Volume (CY)	36

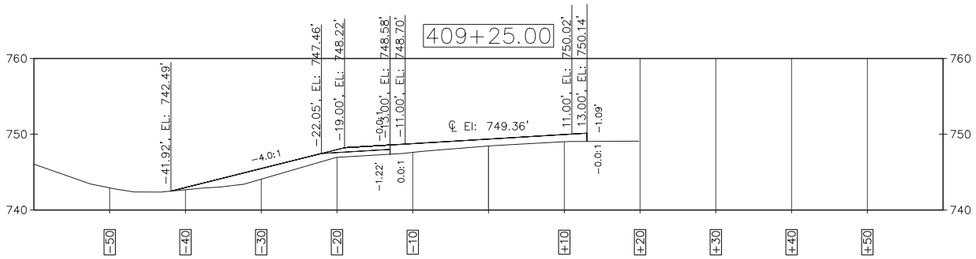
Total Volume at Station 407+75.00	
Cut Area (SF)	0.00
Fill Area (SF)	44.89
Cut Volume (CY)	0
Fill Volume (CY)	40

Total Volume at Station 407+50.00	
Cut Area (SF)	0.01
Fill Area (SF)	42.48
Cut Volume (CY)	0
Fill Volume (CY)	1

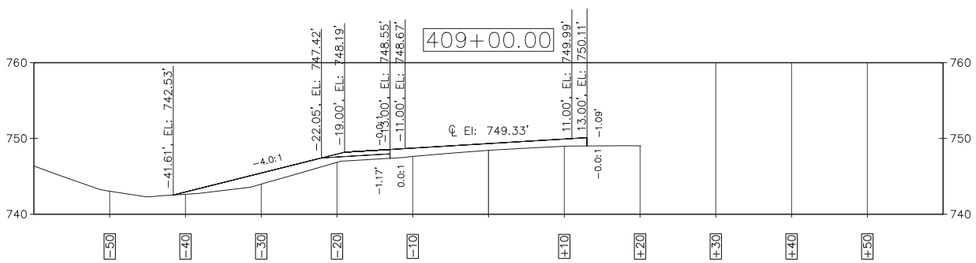
Total Volume at Station 407+49.33	
Cut Area (SF)	0.01
Fill Area (SF)	42.38
Cut Volume (CY)	0
Fill Volume (CY)	8

Total Volume at Station 407+43.99	
Cut Area (SF)	0.00
Fill Area (SF)	41.73
Cut Volume (CY)	0
Fill Volume (CY)	29

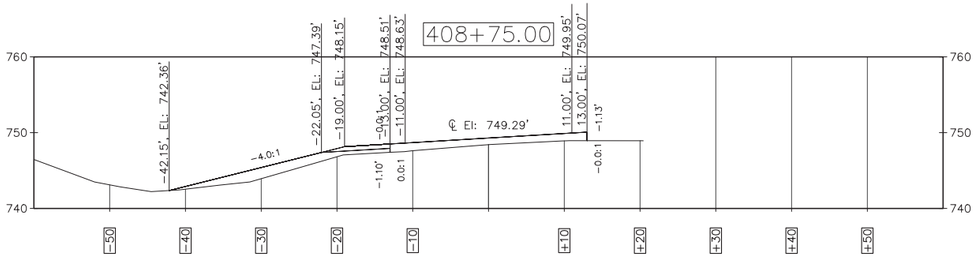
Total Volume at Station 407+25.00	
Cut Area (SF)	0.00
Fill Area (SF)	40.53
Cut Volume (CY)	0
Fill Volume (CY)	37



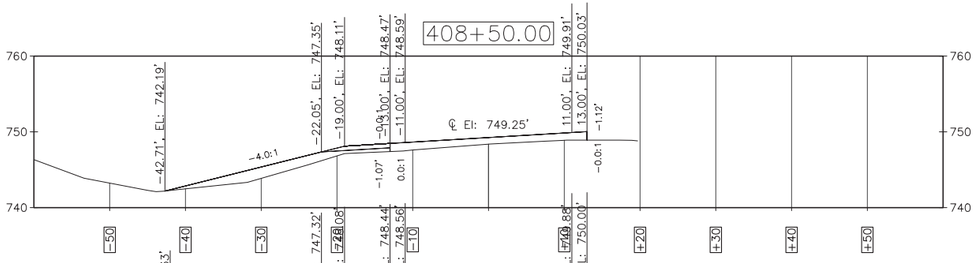
Total Volume at Station 409+25.00	
Cut Area (SF)	0.00
Fill Area (SF)	52.79
Cut Volume (CY)	0
Fill Volume (CY)	49



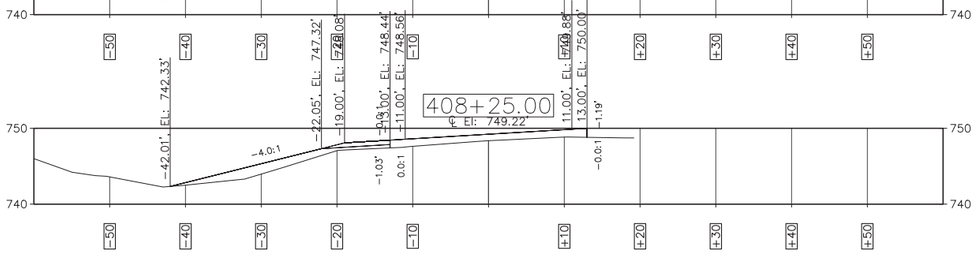
Total Volume at Station 409+00.00	
Cut Area (SF)	0.00
Fill Area (SF)	52.54
Cut Volume (CY)	0
Fill Volume (CY)	48



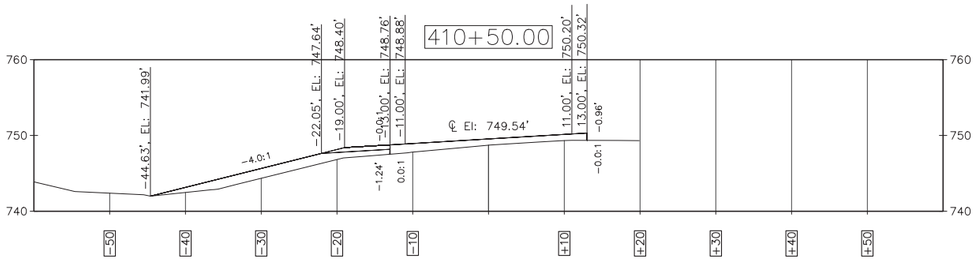
Total Volume at Station 408+75.00	
Cut Area (SF)	0.00
Fill Area (SF)	51.85
Cut Volume (CY)	0
Fill Volume (CY)	48



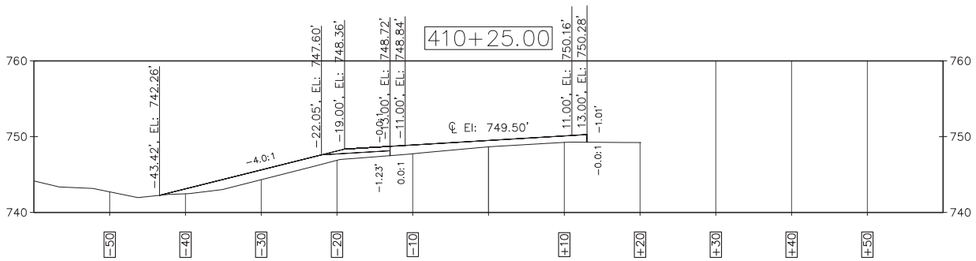
Total Volume at Station 408+50.00	
Cut Area (SF)	0.00
Fill Area (SF)	52.08
Cut Volume (CY)	0
Fill Volume (CY)	47



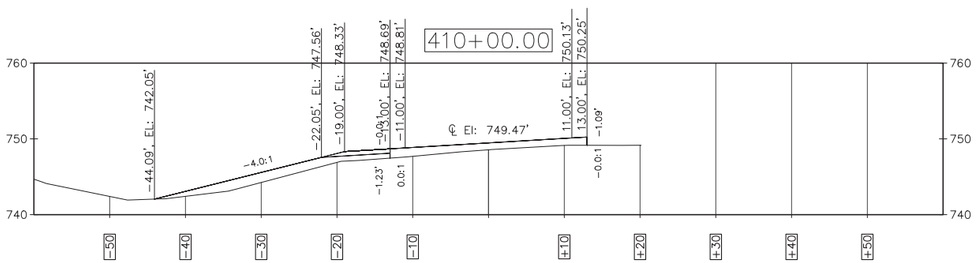
Total Volume at Station 408+25.00	
Cut Area (SF)	0.00
Fill Area (SF)	48.39
Cut Volume (CY)	0
Fill Volume (CY)	43



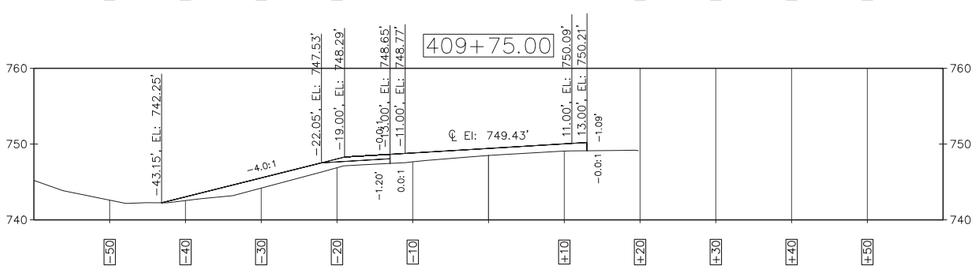
Total Volume at Station 410+50.00	
Cut Area (SF)	0.00
Fill Area (SF)	55.19
Cut Volume (CY)	0
Fill Volume (CY)	51



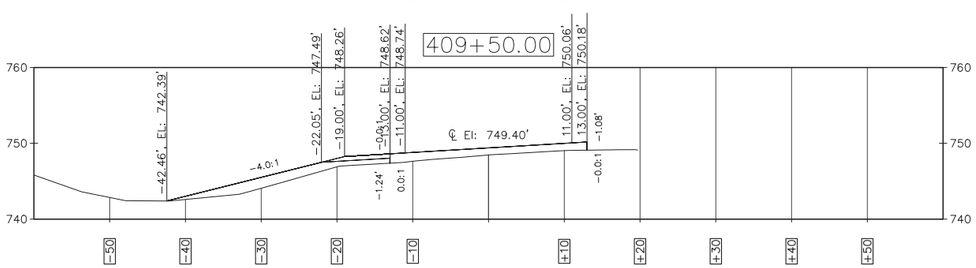
Total Volume at Station 410+25.00	
Cut Area (SF)	0.06
Fill Area (SF)	54.59
Cut Volume (CY)	0
Fill Volume (CY)	51



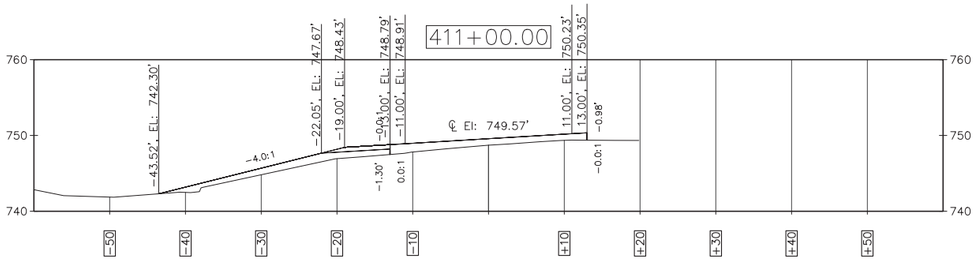
Total Volume at Station 410+00.00	
Cut Area (SF)	0.00
Fill Area (SF)	56.02
Cut Volume (CY)	0
Fill Volume (CY)	51



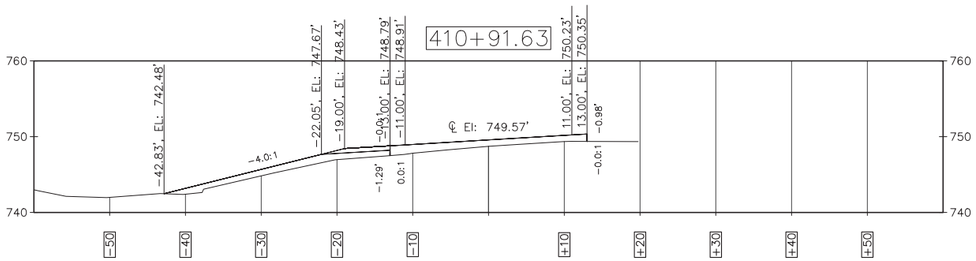
Total Volume at Station 409+75.00	
Cut Area (SF)	0.00
Fill Area (SF)	54.79
Cut Volume (CY)	0
Fill Volume (CY)	51



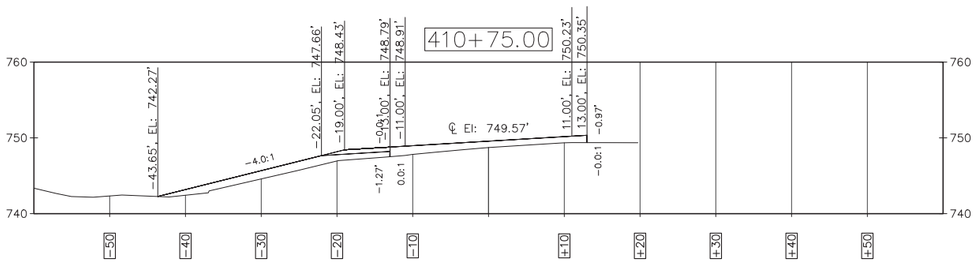
Total Volume at Station 409+50.00	
Cut Area (SF)	0.00
Fill Area (SF)	55.12
Cut Volume (CY)	0
Fill Volume (CY)	50



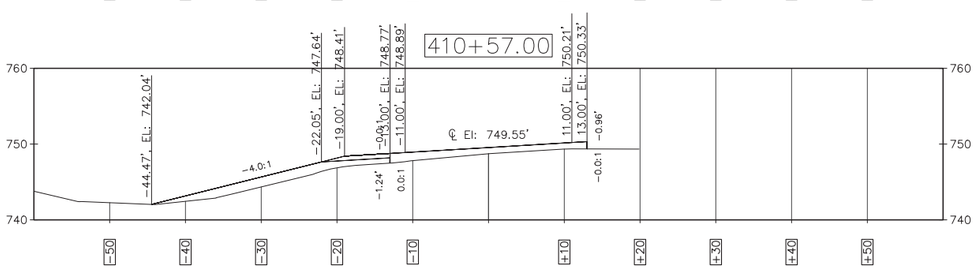
Total Volume at Station 411+00.00	
Cut Area (SF)	0.04
Fill Area (SF)	48.83
Cut Volume (CY)	0
Fill Volume (CY)	15



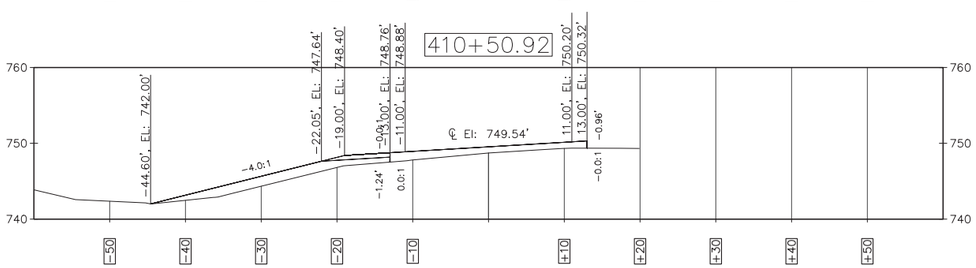
Total Volume at Station 410+91.63	
Cut Area (SF)	0.18
Fill Area (SF)	48.93
Cut Volume (CY)	0
Fill Volume (CY)	31



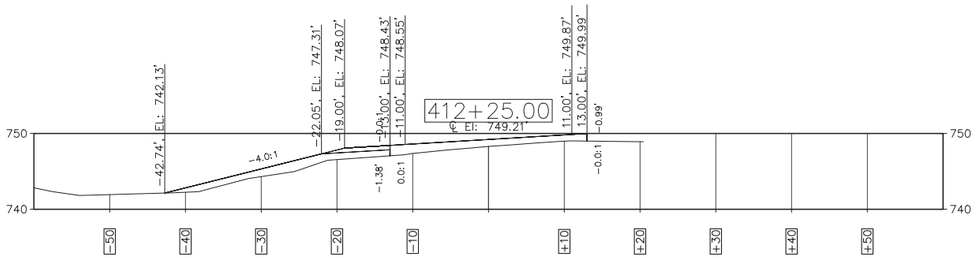
Total Volume at Station 410+75.00	
Cut Area (SF)	0.00
Fill Area (SF)	52.54
Cut Volume (CY)	0
Fill Volume (CY)	36



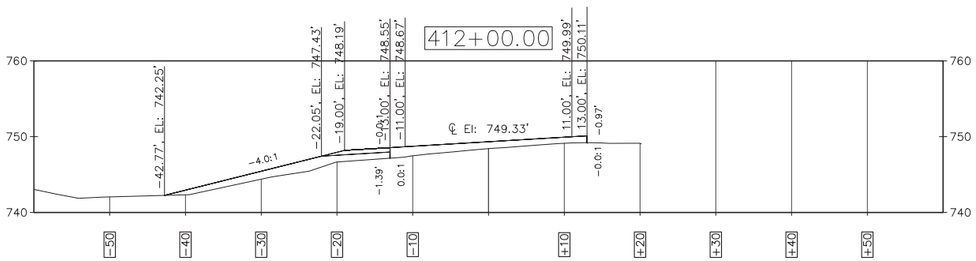
Total Volume at Station 410+57.00	
Cut Area (SF)	0.00
Fill Area (SF)	55.75
Cut Volume (CY)	0
Fill Volume (CY)	13



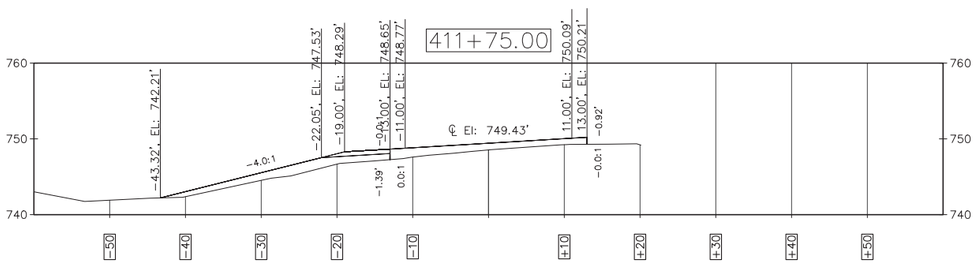
Total Volume at Station 410+50.92	
Cut Area (SF)	0.00
Fill Area (SF)	55.31
Cut Volume (CY)	0
Fill Volume (CY)	2



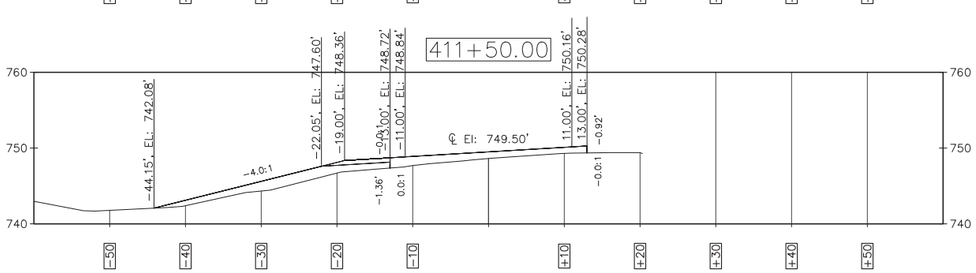
Total Volume at Station 412+25.00	
Cut Area (SF)	0.00
Fill Area (SF)	53.26
Cut Volume (CY)	0
Fill Volume (CY)	50



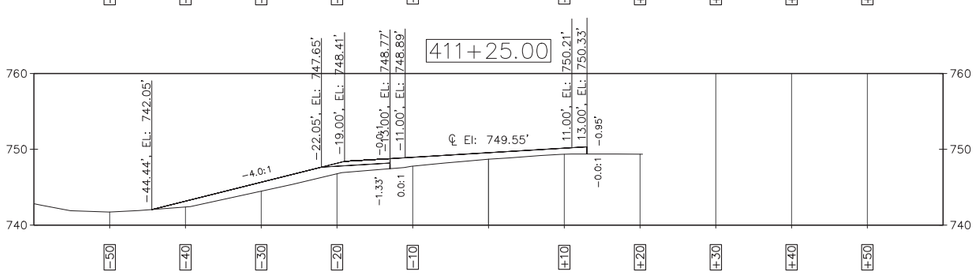
Total Volume at Station 412+00.00	
Cut Area (SF)	0.00
Fill Area (SF)	54.29
Cut Volume (CY)	0
Fill Volume (CY)	50



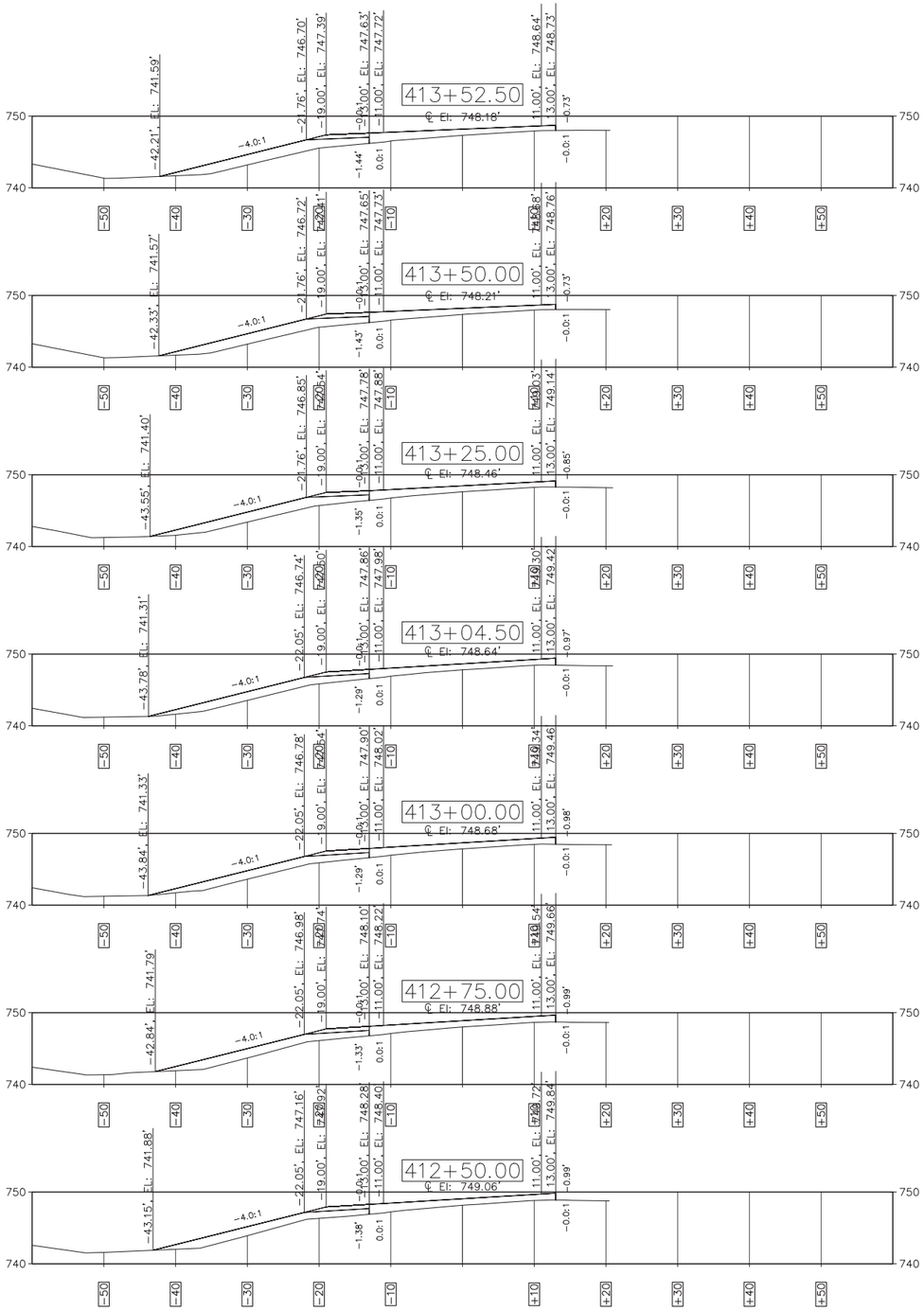
Total Volume at Station 411+75.00	
Cut Area (SF)	0.00
Fill Area (SF)	53.61
Cut Volume (CY)	0
Fill Volume (CY)	50



Total Volume at Station 411+50.00	
Cut Area (SF)	0.00
Fill Area (SF)	55.43
Cut Volume (CY)	0
Fill Volume (CY)	51



Total Volume at Station 411+25.00	
Cut Area (SF)	0.00
Fill Area (SF)	55.04
Cut Volume (CY)	0
Fill Volume (CY)	48



Total Volume at Station 413+52.50	
Cut Area (SF)	0.00
Fill Area (SF)	58.67
Cut Volume (CY)	0
Fill Volume (CY)	5

Total Volume at Station 413+50.00	
Cut Area (SF)	0.00
Fill Area (SF)	58.59
Cut Volume (CY)	0
Fill Volume (CY)	54

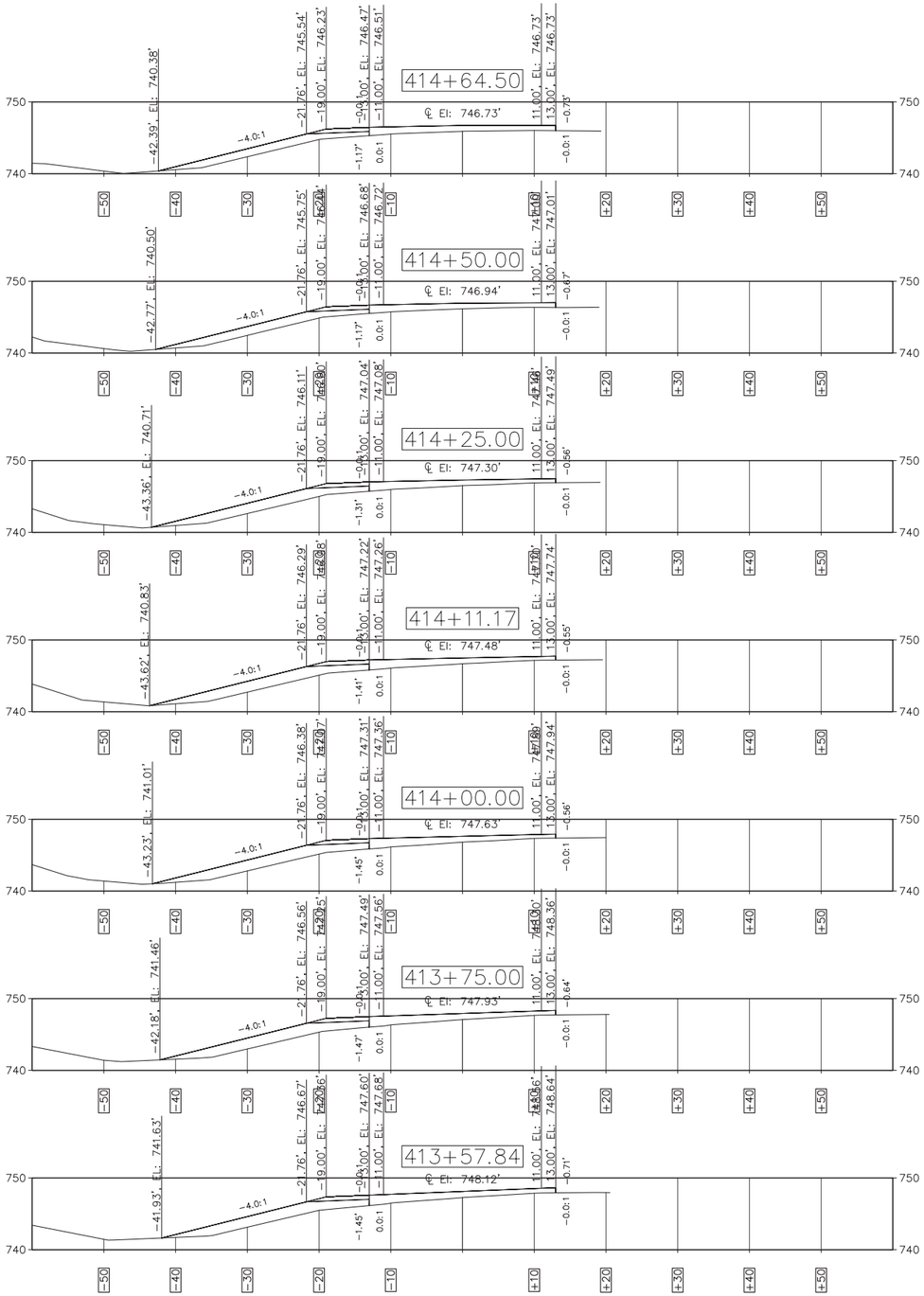
Total Volume at Station 413+25.00	
Cut Area (SF)	0.00
Fill Area (SF)	58.29
Cut Volume (CY)	0
Fill Volume (CY)	43

Total Volume at Station 413+04.50	
Cut Area (SF)	0.00
Fill Area (SF)	54.33
Cut Volume (CY)	0
Fill Volume (CY)	9

Total Volume at Station 413+00.00	
Cut Area (SF)	0.00
Fill Area (SF)	53.54
Cut Volume (CY)	0
Fill Volume (CY)	51

Total Volume at Station 412+75.00	
Cut Area (SF)	0.00
Fill Area (SF)	55.84
Cut Volume (CY)	0
Fill Volume (CY)	52

Total Volume at Station 412+50.00	
Cut Area (SF)	0.00
Fill Area (SF)	56.25
Cut Volume (CY)	0
Fill Volume (CY)	51



Total Volume at Station 414+64.50	
Cut Area (SF)	0.00
Fill Area (SF)	48.26
Cut Volume (CY)	0
Fill Volume (CY)	26

Total Volume at Station 414+50.00	
Cut Area (SF)	0.00
Fill Area (SF)	49.73
Cut Volume (CY)	0
Fill Volume (CY)	49

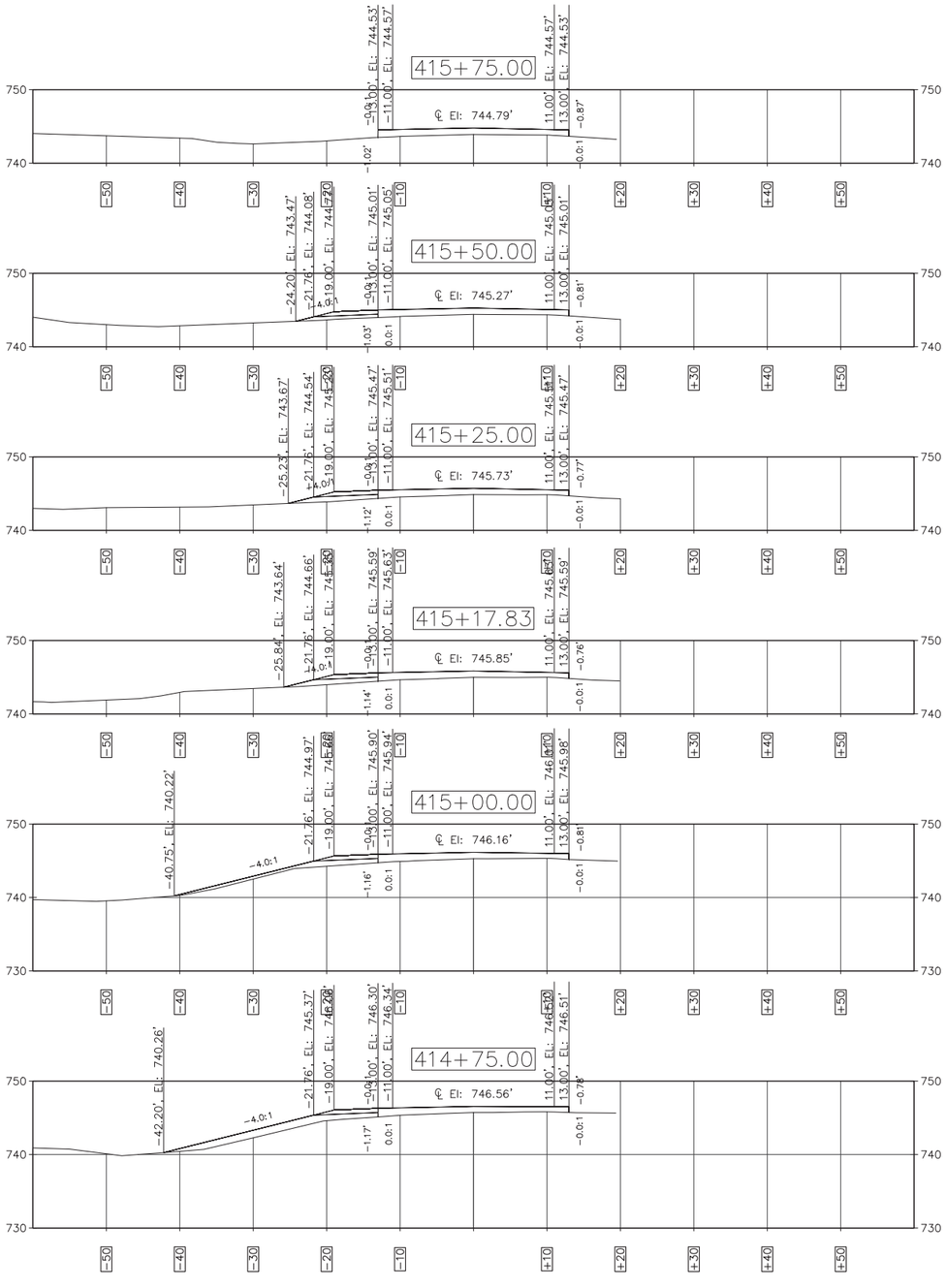
Total Volume at Station 414+25.00	
Cut Area (SF)	0.00
Fill Area (SF)	55.38
Cut Volume (CY)	0
Fill Volume (CY)	29

Total Volume at Station 414+11.17	
Cut Area (SF)	0.00
Fill Area (SF)	58.28
Cut Volume (CY)	0
Fill Volume (CY)	24

Total Volume at Station 414+00.00	
Cut Area (SF)	0.00
Fill Area (SF)	59.29
Cut Volume (CY)	0
Fill Volume (CY)	55

Total Volume at Station 413+75.00	
Cut Area (SF)	0.00
Fill Area (SF)	59.50
Cut Volume (CY)	0
Fill Volume (CY)	38

Total Volume at Station 413+57.84	
Cut Area (SF)	0.01
Fill Area (SF)	58.82
Cut Volume (CY)	0
Fill Volume (CY)	12



Total Volume at Station 415+75.00	
Cut Area (SF)	0.01
Fill Area (SF)	23.09
Cut Volume (CY)	0
Fill Volume (CY)	23

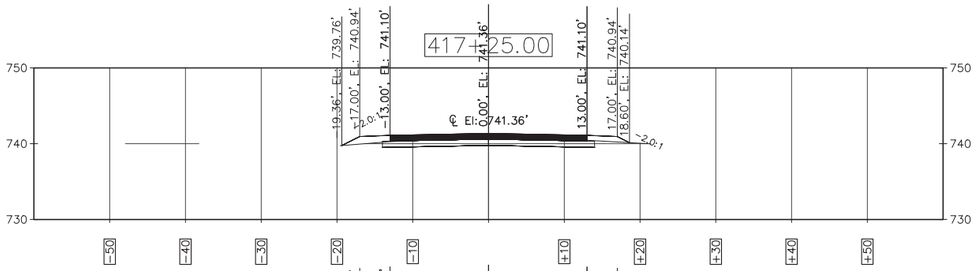
Total Volume at Station 415+50.00	
Cut Area (SF)	0.00
Fill Area (SF)	26.87
Cut Volume (CY)	3
Fill Volume (CY)	26

Total Volume at Station 415+25.00	
Cut Area (SF)	5.46
Fill Area (SF)	29.39
Cut Volume (CY)	2
Fill Volume (CY)	8

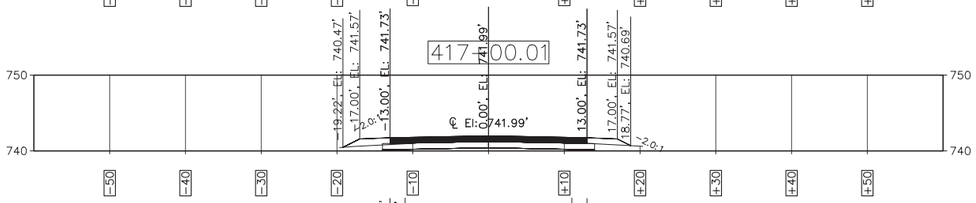
Total Volume at Station 415+17.83	
Cut Area (SF)	8.41
Fill Area (SF)	30.14
Cut Volume (CY)	3
Fill Volume (CY)	22

Total Volume at Station 415+00.00	
Cut Area (SF)	0.00
Fill Area (SF)	36.32
Cut Volume (CY)	0
Fill Volume (CY)	39

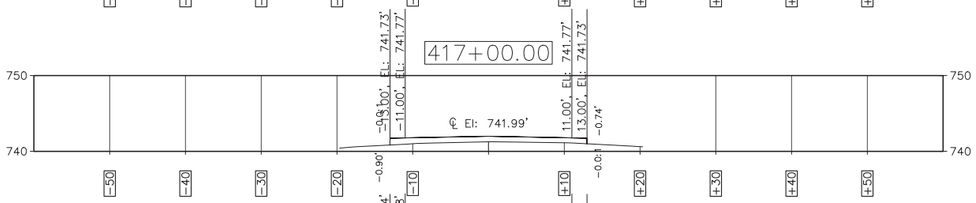
Total Volume at Station 414+75.00	
Cut Area (SF)	0.00
Fill Area (SF)	47.07
Cut Volume (CY)	0
Fill Volume (CY)	19



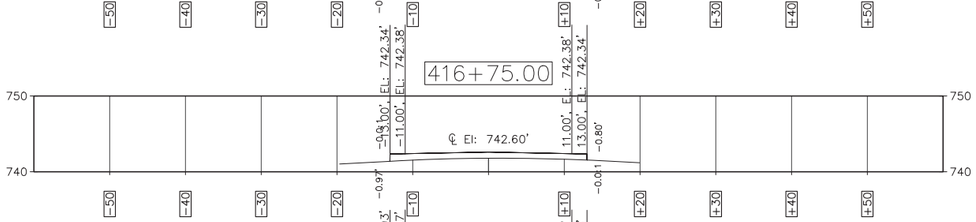
Total Volume at Station 417+25.00	
Cut Area (SF)	25.86
Fill Area (SF)	6.59
Cut Volume (CY)	23
Fill Volume (CY)	6



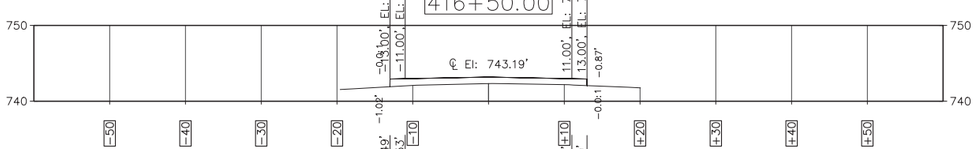
Total Volume at Station 417+00.01	
Cut Area (SF)	23.57
Fill Area (SF)	6.83
Cut Volume (CY)	0
Fill Volume (CY)	0



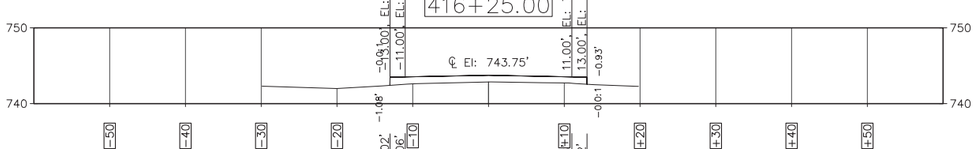
Total Volume at Station 417+00.00	
Cut Area (SF)	0.72
Fill Area (SF)	25.83
Cut Volume (CY)	0
Fill Volume (CY)	22



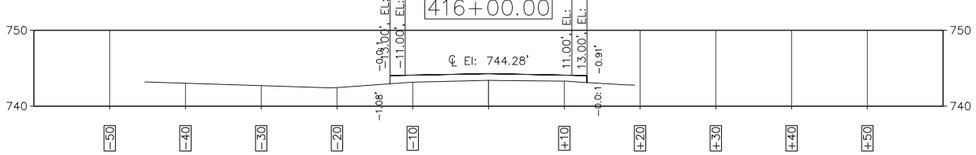
Total Volume at Station 416+75.00	
Cut Area (SF)	0.16
Fill Area (SF)	20.89
Cut Volume (CY)	0
Fill Volume (CY)	20



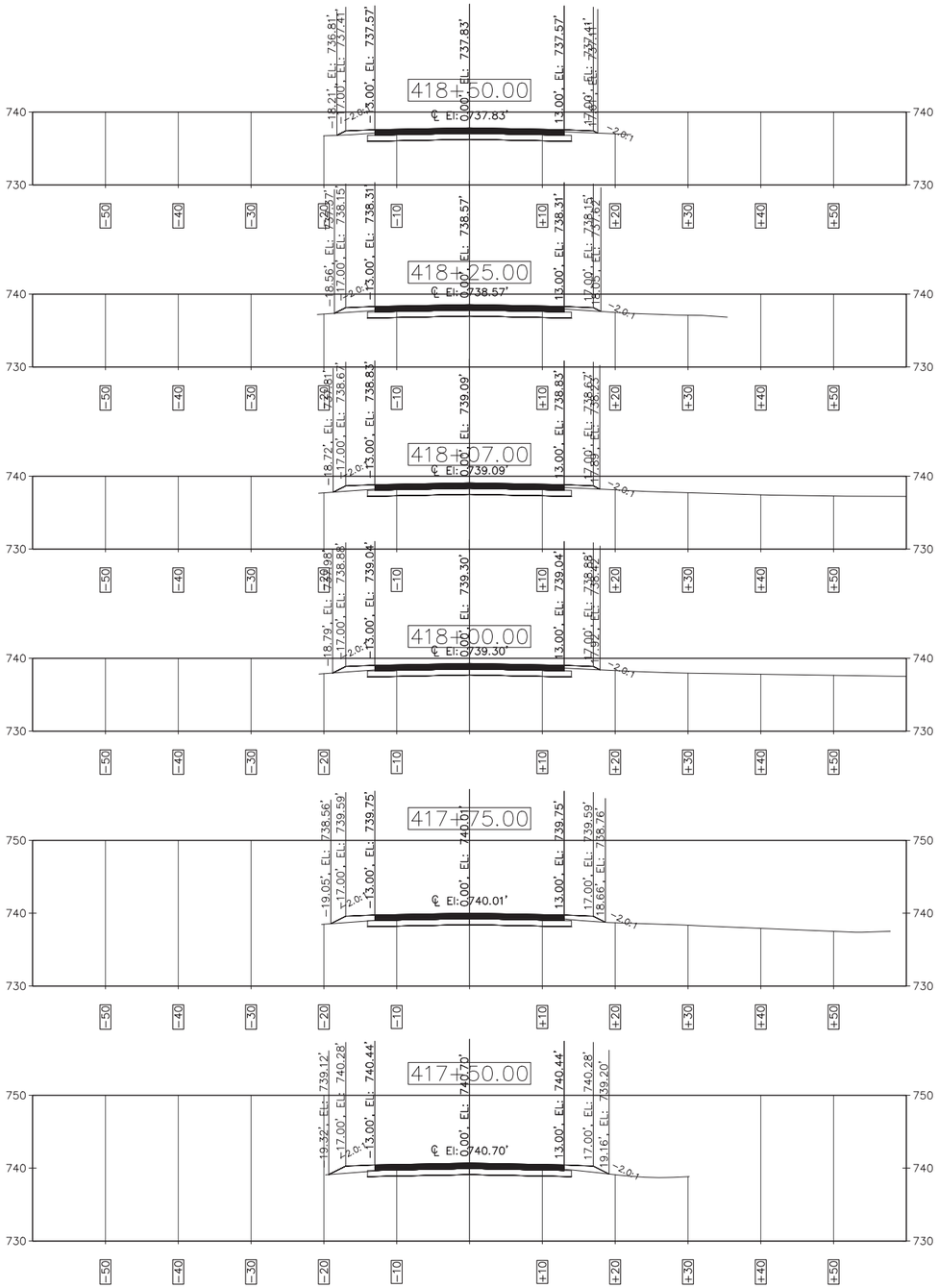
Total Volume at Station 416+50.00	
Cut Area (SF)	0.08
Fill Area (SF)	22.34
Cut Volume (CY)	0
Fill Volume (CY)	21



Total Volume at Station 416+25.00	
Cut Area (SF)	0.00
Fill Area (SF)	23.14
Cut Volume (CY)	0
Fill Volume (CY)	21



Total Volume at Station 416+00.00	
Cut Area (SF)	0.00
Fill Area (SF)	23.17
Cut Volume (CY)	0
Fill Volume (CY)	21



Total Volume at Station 418+50.00	
Cut Area (SF)	36.02
Fill Area (SF)	2.85
Cut Volume (CY)	33
Fill Volume (CY)	3

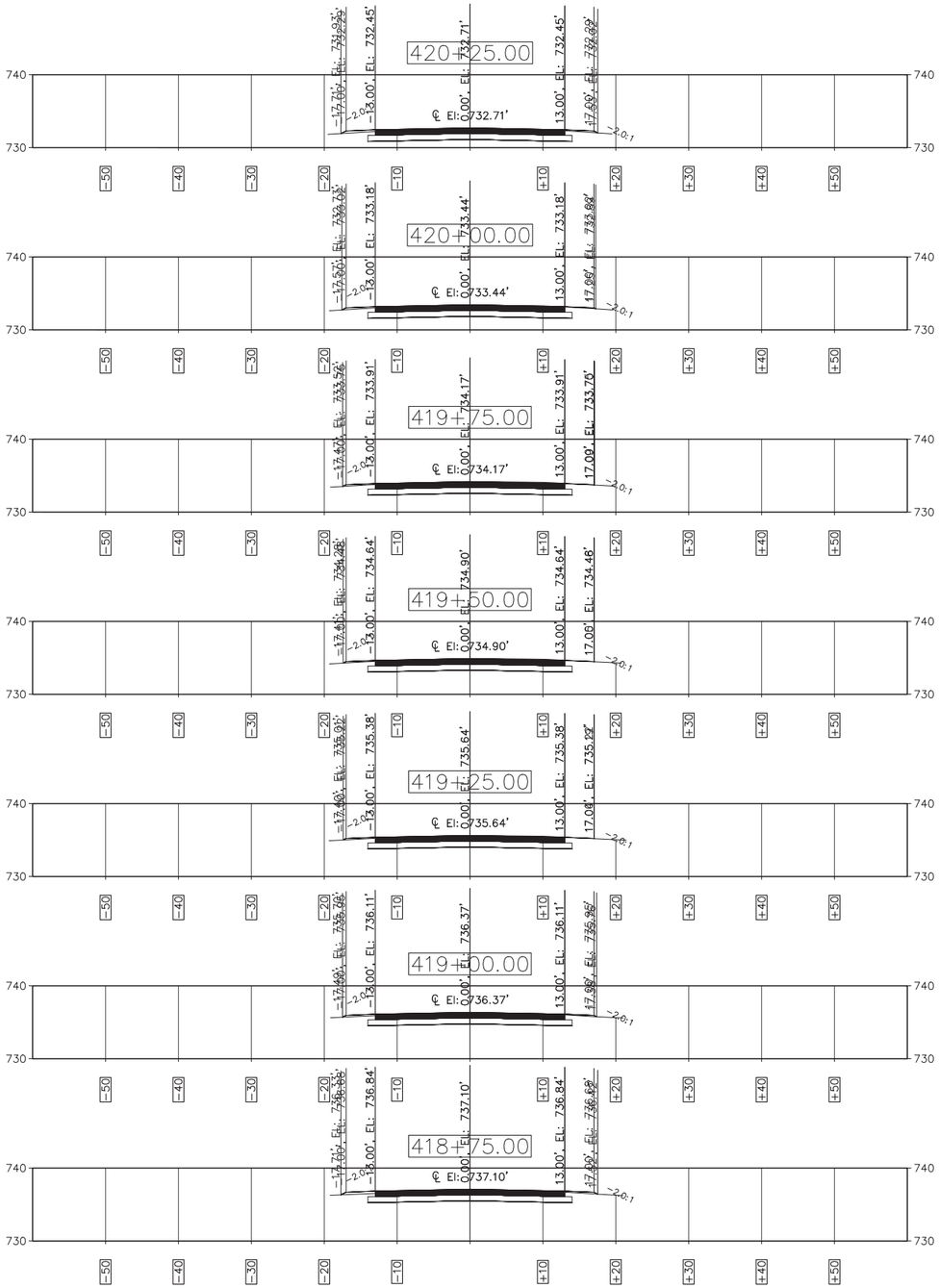
Total Volume at Station 418+25.00	
Cut Area (SF)	34.53
Fill Area (SF)	3.88
Cut Volume (CY)	22
Fill Volume (CY)	3

Total Volume at Station 418+07.00	
Cut Area (SF)	32.60
Fill Area (SF)	4.07
Cut Volume (CY)	8
Fill Volume (CY)	1

Total Volume at Station 418+00.00	
Cut Area (SF)	31.91
Fill Area (SF)	4.25
Cut Volume (CY)	29
Fill Volume (CY)	5

Total Volume at Station 417+75.00	
Cut Area (SF)	29.80
Fill Area (SF)	5.95
Cut Volume (CY)	27
Fill Volume (CY)	6

Total Volume at Station 417+50.00	
Cut Area (SF)	27.51
Fill Area (SF)	7.20
Cut Volume (CY)	25
Fill Volume (CY)	6



Total Volume at Station 420+25.00	
Cut Area (SF)	41.78
Fill Area (SF)	1.59
Cut Volume (CY)	39
Fill Volume (CY)	1

Total Volume at Station 420+00.00	
Cut Area (SF)	43.41
Fill Area (SF)	1.00
Cut Volume (CY)	41
Fill Volume (CY)	1

Total Volume at Station 419+75.00	
Cut Area (SF)	44.78
Fill Area (SF)	0.65
Cut Volume (CY)	41
Fill Volume (CY)	1

Total Volume at Station 419+50.00	
Cut Area (SF)	44.73
Fill Area (SF)	0.54
Cut Volume (CY)	41
Fill Volume (CY)	1

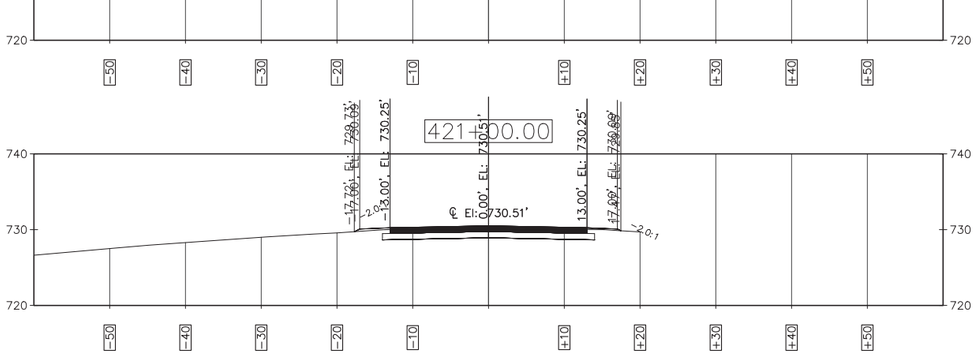
Total Volume at Station 419+25.00	
Cut Area (SF)	44.23
Fill Area (SF)	0.56
Cut Volume (CY)	40
Fill Volume (CY)	1

Total Volume at Station 419+00.00	
Cut Area (SF)	42.00
Fill Area (SF)	1.13
Cut Volume (CY)	38
Fill Volume (CY)	1

Total Volume at Station 418+75.00	
Cut Area (SF)	39.44
Fill Area (SF)	1.73
Cut Volume (CY)	35
Fill Volume (CY)	2

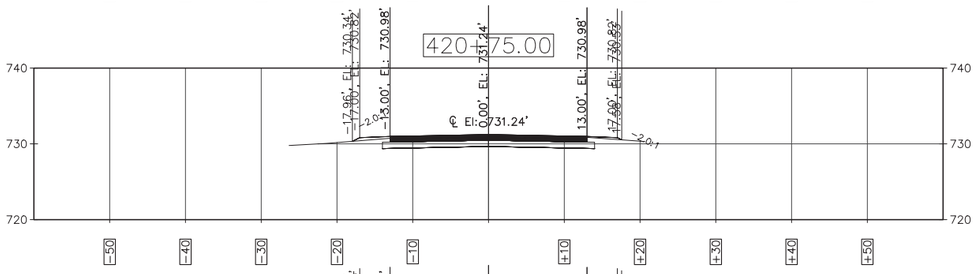
Total Volume at Station 421+75.00	
Cut Area (SF)	45.86
Fill Area (SF)	0.44
Cut Volume (CY)	42
Fill Volume (CY)	0

Total Volume at Station 421+50.00	
Cut Area (SF)	45.81
Fill Area (SF)	0.41
Cut Volume (CY)	42
Fill Volume (CY)	0



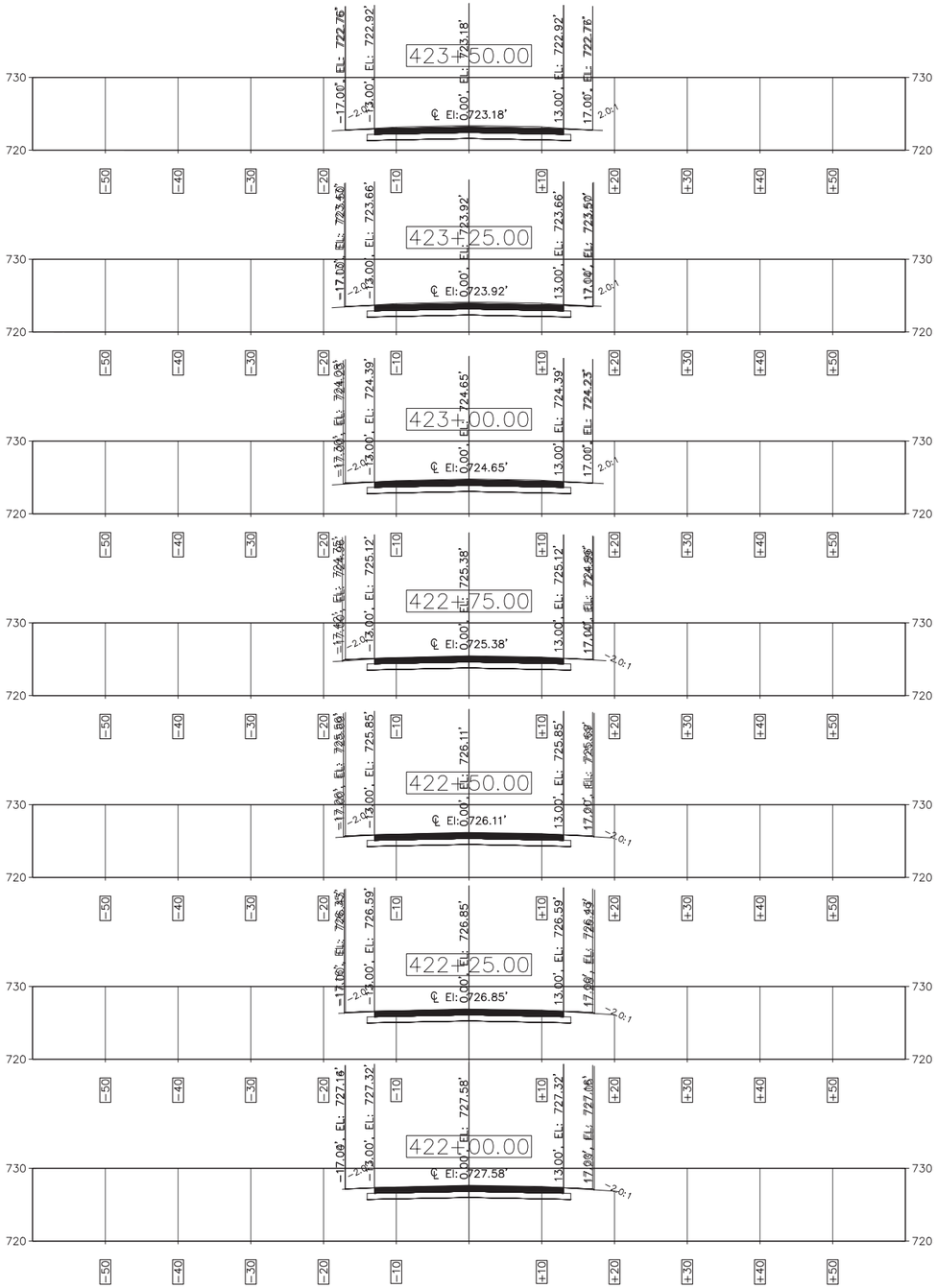
Total Volume at Station 421+25.00	
Cut Area (SF)	45.34
Fill Area (SF)	0.62
Cut Volume (CY)	41
Fill Volume (CY)	1

Total Volume at Station 421+00.00	
Cut Area (SF)	43.25
Fill Area (SF)	1.45
Cut Volume (CY)	40
Fill Volume (CY)	2



Total Volume at Station 420+75.00	
Cut Area (SF)	42.09
Fill Area (SF)	1.91
Cut Volume (CY)	39
Fill Volume (CY)	2

Total Volume at Station 420+50.00	
Cut Area (SF)	41.72
Fill Area (SF)	1.64
Cut Volume (CY)	39
Fill Volume (CY)	1



Total Volume at Station 423+50.00	
Cut Area (SF)	49.42
Fill Area (SF)	0.00
Cut Volume (CY)	46
Fill Volume (CY)	0

Total Volume at Station 423+25.00	
Cut Area (SF)	49.50
Fill Area (SF)	0.06
Cut Volume (CY)	45
Fill Volume (CY)	0

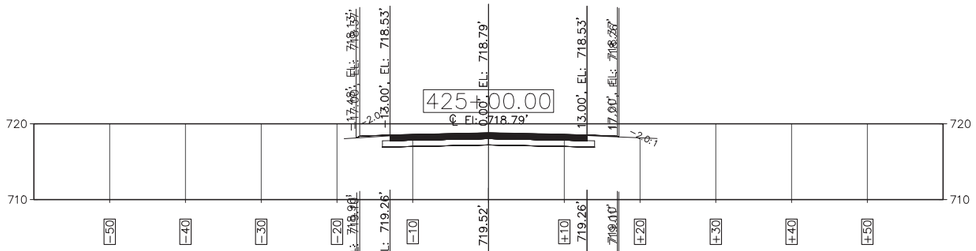
Total Volume at Station 423+00.00	
Cut Area (SF)	47.55
Fill Area (SF)	0.30
Cut Volume (CY)	43
Fill Volume (CY)	0

Total Volume at Station 422+75.00	
Cut Area (SF)	45.97
Fill Area (SF)	0.57
Cut Volume (CY)	42
Fill Volume (CY)	0

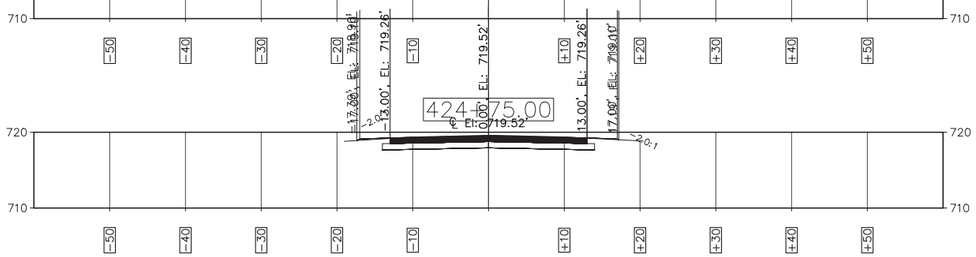
Total Volume at Station 422+50.00	
Cut Area (SF)	45.69
Fill Area (SF)	0.43
Cut Volume (CY)	42
Fill Volume (CY)	0

Total Volume at Station 422+25.00	
Cut Area (SF)	45.42
Fill Area (SF)	0.49
Cut Volume (CY)	42
Fill Volume (CY)	0

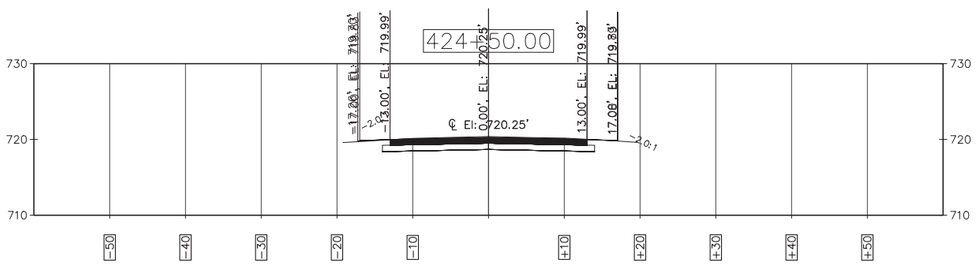
Total Volume at Station 422+00.00	
Cut Area (SF)	46.06
Fill Area (SF)	0.26
Cut Volume (CY)	43
Fill Volume (CY)	0



Total Volume at Station 425+00.00	
Cut Area (SF)	44.26
Fill Area (SF)	0.87
Cut Volume (CY)	42
Fill Volume (CY)	1

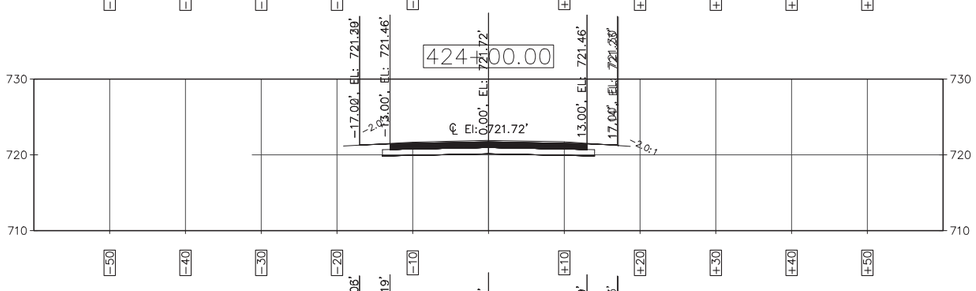


Total Volume at Station 424+75.00	
Cut Area (SF)	45.42
Fill Area (SF)	0.66
Cut Volume (CY)	43
Fill Volume (CY)	0

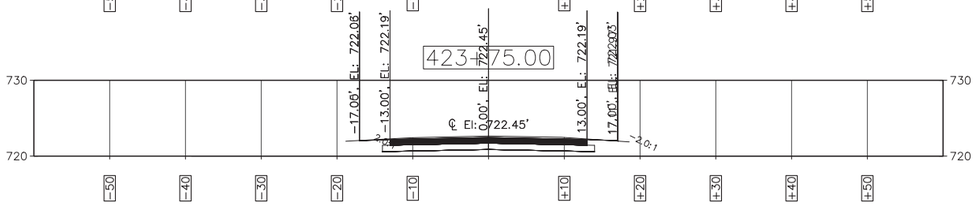


Total Volume at Station 424+50.00	
Cut Area (SF)	46.88
Fill Area (SF)	0.29
Cut Volume (CY)	44
Fill Volume (CY)	0

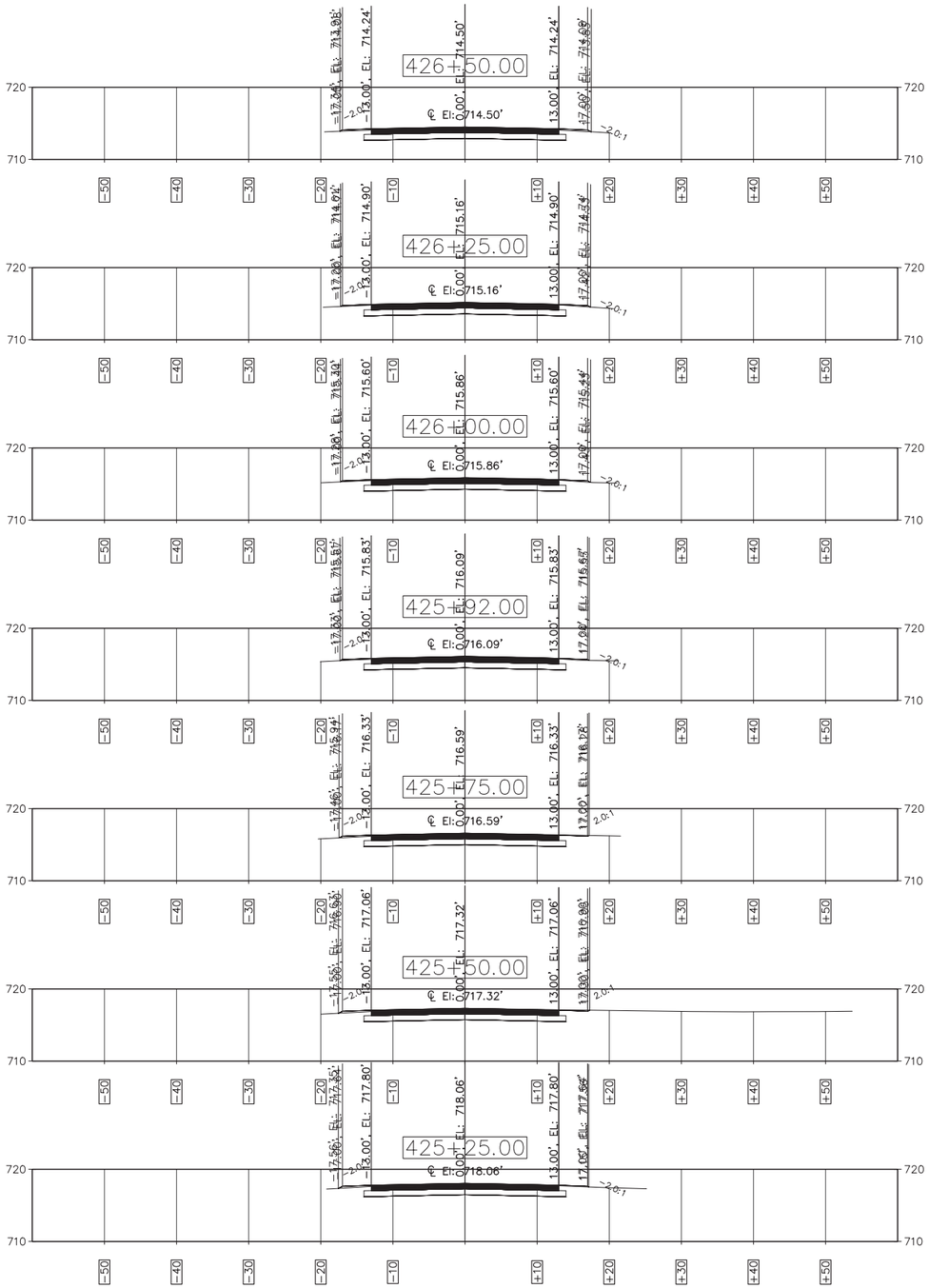
Total Volume at Station 424+25.00	
Cut Area (SF)	48.39
Fill Area (SF)	0.11
Cut Volume (CY)	45
Fill Volume (CY)	0



Total Volume at Station 424+00.00	
Cut Area (SF)	48.90
Fill Area (SF)	0.07
Cut Volume (CY)	45
Fill Volume (CY)	0



Total Volume at Station 423+75.00	
Cut Area (SF)	49.33
Fill Area (SF)	0.04
Cut Volume (CY)	46
Fill Volume (CY)	0



Total Volume at Station 426+50.00	
Cut Area (SF)	41.54
Fill Area (SF)	1.18
Cut Volume (CY)	39
Fill Volume (CY)	1

Total Volume at Station 426+25.00	
Cut Area (SF)	43.72
Fill Area (SF)	0.81
Cut Volume (CY)	41
Fill Volume (CY)	1

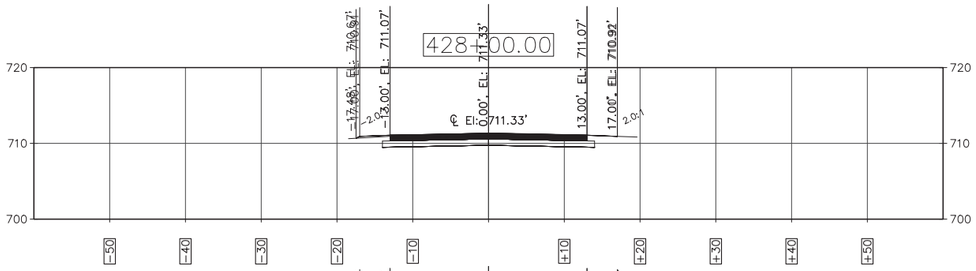
Total Volume at Station 426+00.00	
Cut Area (SF)	44.23
Fill Area (SF)	0.84
Cut Volume (CY)	13
Fill Volume (CY)	0

Total Volume at Station 425+92.00	
Cut Area (SF)	44.01
Fill Area (SF)	0.82
Cut Volume (CY)	28
Fill Volume (CY)	0

Total Volume at Station 425+75.00	
Cut Area (SF)	43.94
Fill Area (SF)	0.62
Cut Volume (CY)	41
Fill Volume (CY)	1

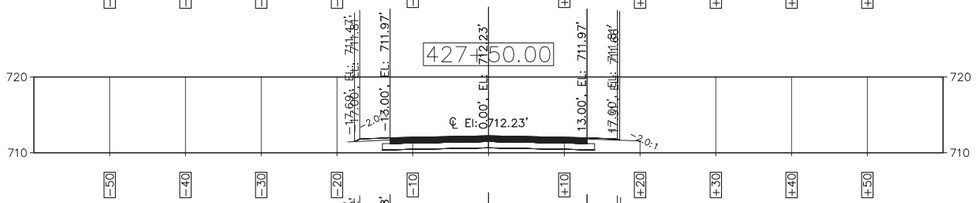
Total Volume at Station 425+50.00	
Cut Area (SF)	43.99
Fill Area (SF)	0.75
Cut Volume (CY)	40
Fill Volume (CY)	1

Total Volume at Station 425+25.00	
Cut Area (SF)	43.29
Fill Area (SF)	0.92
Cut Volume (CY)	41
Fill Volume (CY)	1

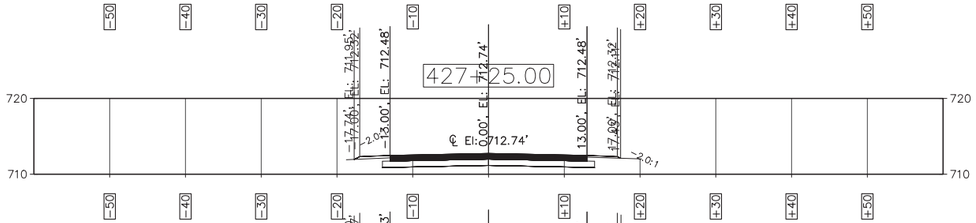


Total Volume at Station 428+00.00	
Cut Area (SF)	44.08
Fill Area (SF)	0.62
Cut Volume (CY)	40
Fill Volume (CY)	1

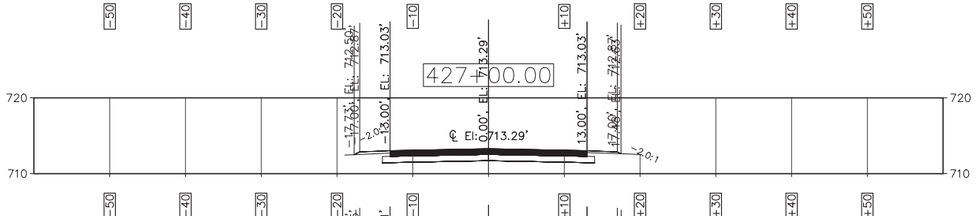
Total Volume at Station 427+75.00	
Cut Area (SF)	42.14
Fill Area (SF)	1.01
Cut Volume (CY)	38
Fill Volume (CY)	1



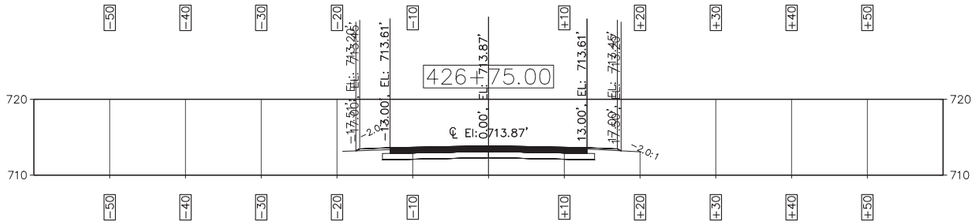
Total Volume at Station 427+50.00	
Cut Area (SF)	39.98
Fill Area (SF)	1.49
Cut Volume (CY)	36
Fill Volume (CY)	2



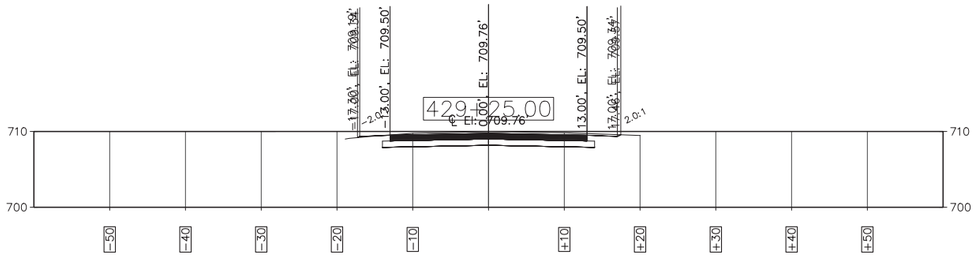
Total Volume at Station 427+25.00	
Cut Area (SF)	38.65
Fill Area (SF)	1.79
Cut Volume (CY)	36
Fill Volume (CY)	2



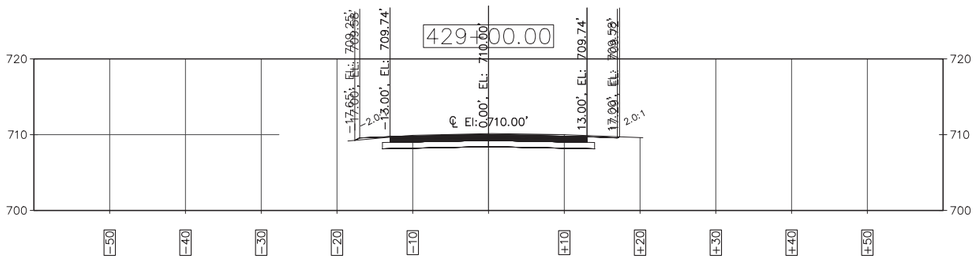
Total Volume at Station 427+00.00	
Cut Area (SF)	38.16
Fill Area (SF)	1.88
Cut Volume (CY)	36
Fill Volume (CY)	2



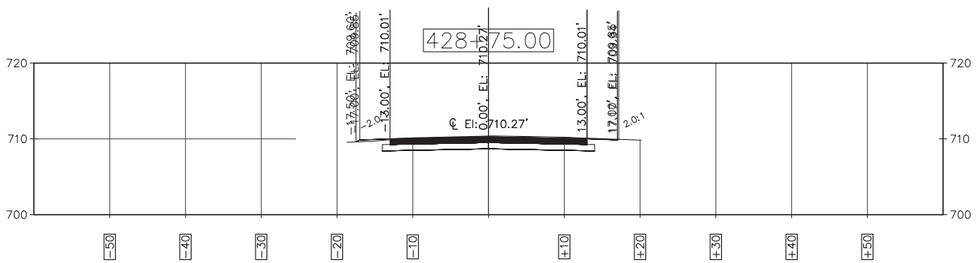
Total Volume at Station 426+75.00	
Cut Area (SF)	39.92
Fill Area (SF)	1.46
Cut Volume (CY)	38
Fill Volume (CY)	1



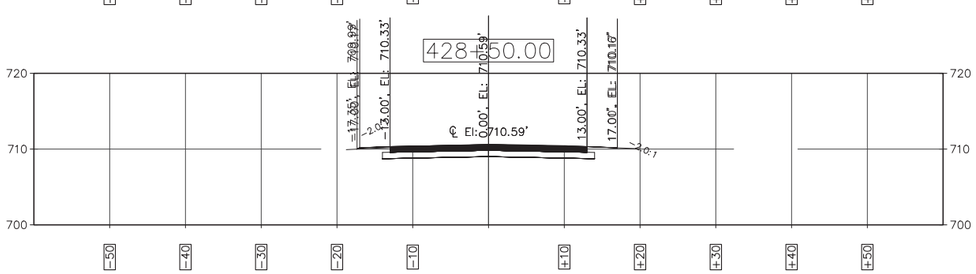
Total Volume at Station 429+25.00	
Cut Area (SF)	50.97
Fill Area (SF)	0.17
Cut Volume (CY)	46
Fill Volume (CY)	0



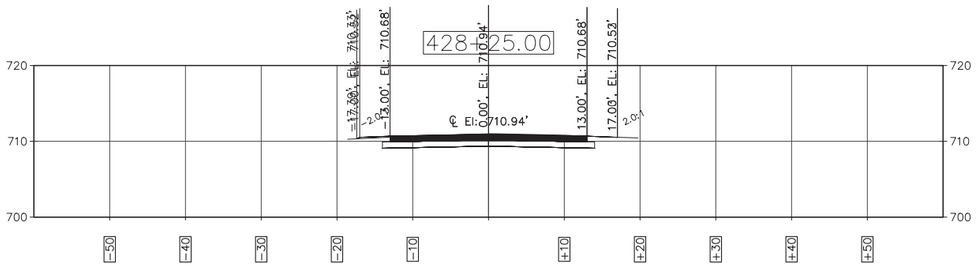
Total Volume at Station 429+00.00	
Cut Area (SF)	48.61
Fill Area (SF)	0.66
Cut Volume (CY)	44
Fill Volume (CY)	1



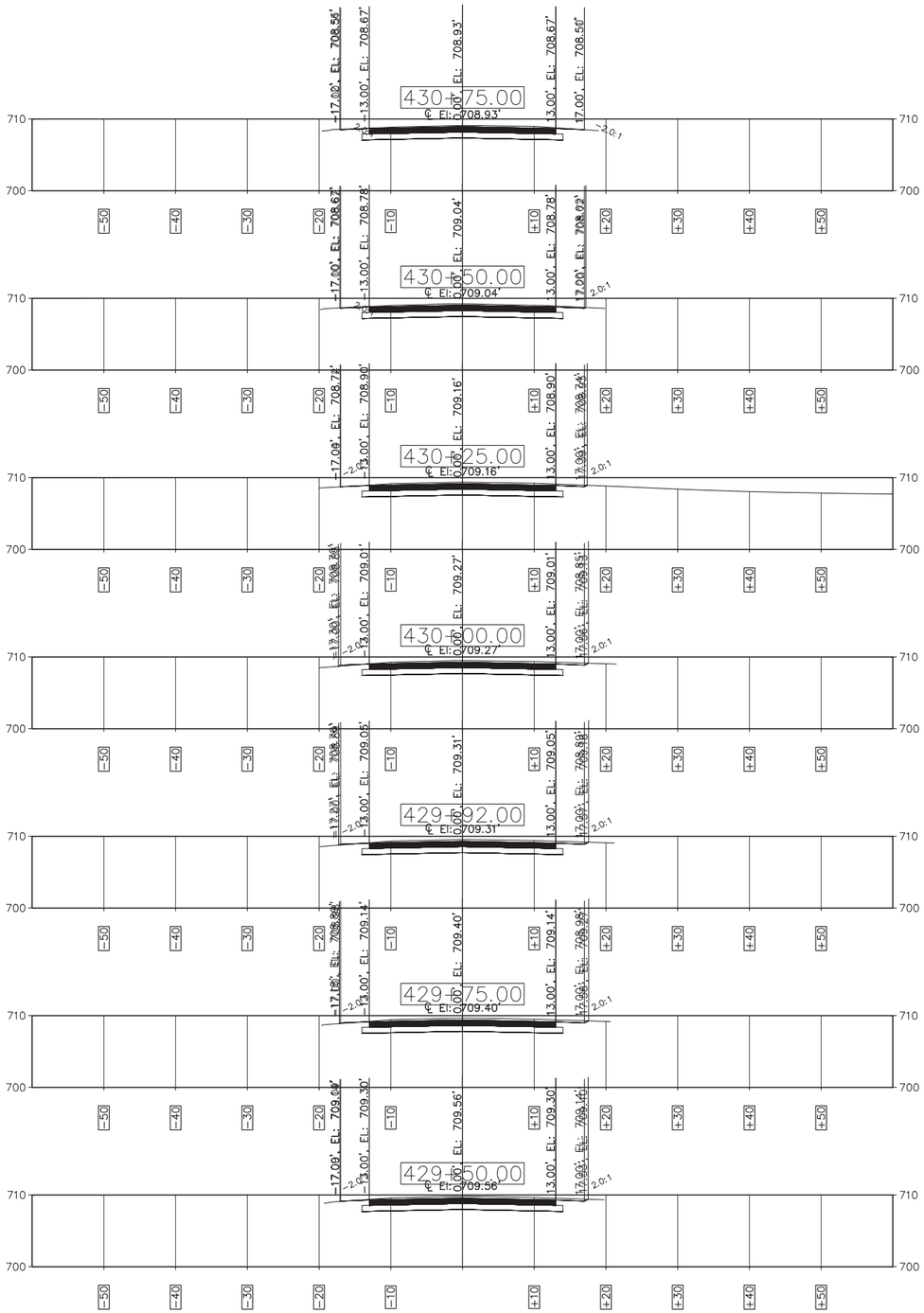
Total Volume at Station 428+75.00	
Cut Area (SF)	47.02
Fill Area (SF)	0.69
Cut Volume (CY)	42
Fill Volume (CY)	1



Total Volume at Station 428+50.00	
Cut Area (SF)	44.64
Fill Area (SF)	0.48
Cut Volume (CY)	41
Fill Volume (CY)	0



Total Volume at Station 428+25.00	
Cut Area (SF)	44.91
Fill Area (SF)	0.52
Cut Volume (CY)	41
Fill Volume (CY)	1



Total Volume at Station 430+75.00	
Cut Area (SF)	49.12
Fill Area (SF)	0.00
Cut Volume (CY)	46
Fill Volume (CY)	0

Total Volume at Station 430+50.00	
Cut Area (SF)	49.70
Fill Area (SF)	0.00
Cut Volume (CY)	46
Fill Volume (CY)	0

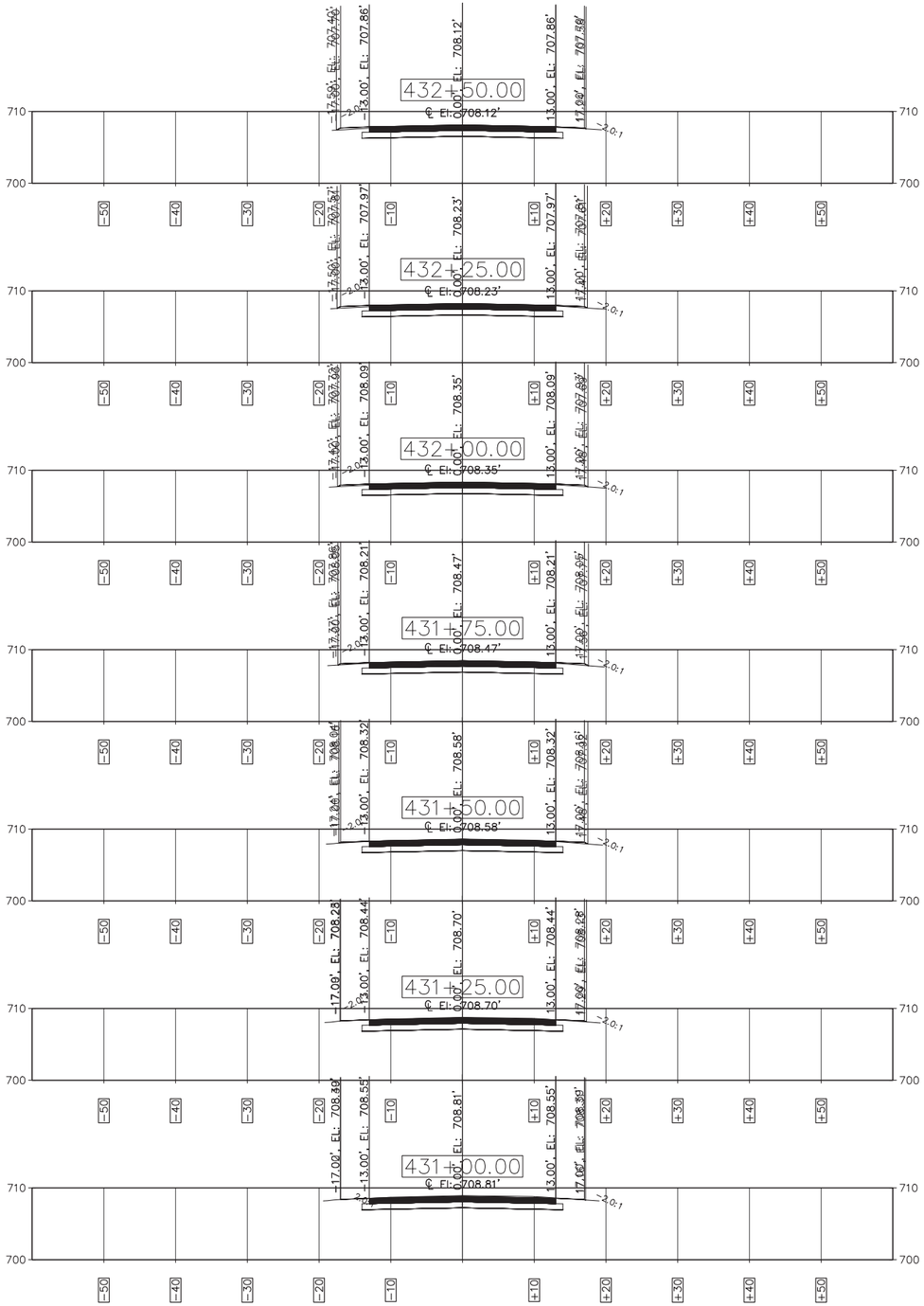
Total Volume at Station 430+25.00	
Cut Area (SF)	50.68
Fill Area (SF)	0.01
Cut Volume (CY)	47
Fill Volume (CY)	0

Total Volume at Station 430+00.00	
Cut Area (SF)	51.33
Fill Area (SF)	0.23
Cut Volume (CY)	15
Fill Volume (CY)	0

Total Volume at Station 429+92.00	
Cut Area (SF)	51.75
Fill Area (SF)	0.18
Cut Volume (CY)	33
Fill Volume (CY)	0

Total Volume at Station 429+75.00	
Cut Area (SF)	52.33
Fill Area (SF)	0.10
Cut Volume (CY)	48
Fill Volume (CY)	0

Total Volume at Station 429+50.00	
Cut Area (SF)	52.11
Fill Area (SF)	0.03
Cut Volume (CY)	48
Fill Volume (CY)	0



Total Volume at Station 432+50.00	
Cut Area (SF)	42.77
Fill Area (SF)	1.10
Cut Volume (CY)	40
Fill Volume (CY)	1

Total Volume at Station 432+25.00	
Cut Area (SF)	42.75
Fill Area (SF)	1.14
Cut Volume (CY)	40
Fill Volume (CY)	1

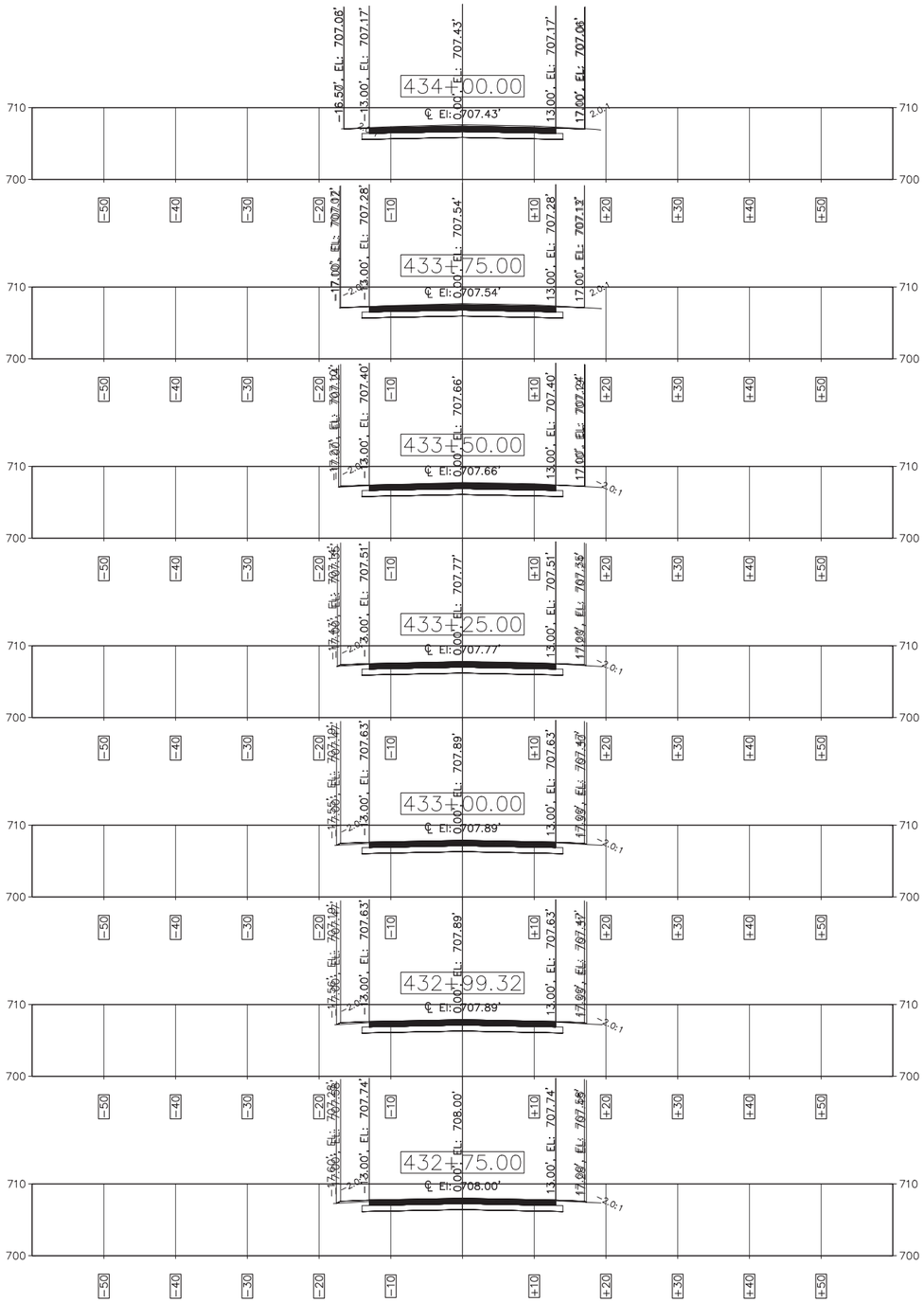
Total Volume at Station 432+00.00	
Cut Area (SF)	43.22
Fill Area (SF)	1.12
Cut Volume (CY)	40
Fill Volume (CY)	1

Total Volume at Station 431+75.00	
Cut Area (SF)	43.99
Fill Area (SF)	1.07
Cut Volume (CY)	41
Fill Volume (CY)	1

Total Volume at Station 431+50.00	
Cut Area (SF)	44.81
Fill Area (SF)	0.74
Cut Volume (CY)	42
Fill Volume (CY)	1

Total Volume at Station 431+25.00	
Cut Area (SF)	45.89
Fill Area (SF)	0.36
Cut Volume (CY)	43
Fill Volume (CY)	0

Total Volume at Station 431+00.00	
Cut Area (SF)	47.34
Fill Area (SF)	0.09
Cut Volume (CY)	45
Fill Volume (CY)	0



Total Volume at Station 434+00.00	
Cut Area (SF)	49.18
Fill Area (SF)	0.00
Cut Volume (CY)	45
Fill Volume (CY)	0

Total Volume at Station 433+75.00	
Cut Area (SF)	47.52
Fill Area (SF)	0.09
Cut Volume (CY)	43
Fill Volume (CY)	0

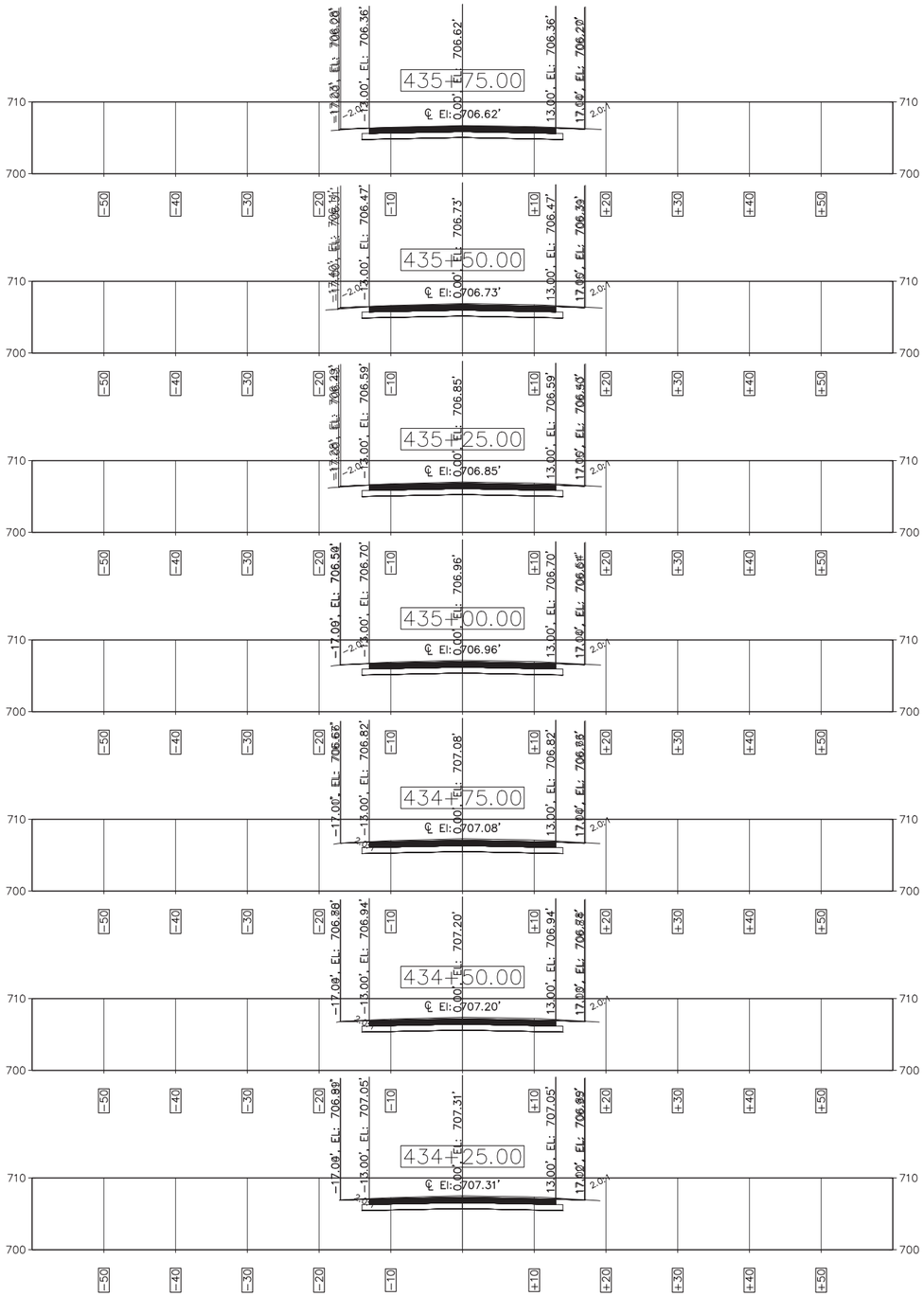
Total Volume at Station 433+50.00	
Cut Area (SF)	45.99
Fill Area (SF)	0.38
Cut Volume (CY)	42
Fill Volume (CY)	1

Total Volume at Station 433+25.00	
Cut Area (SF)	44.57
Fill Area (SF)	0.76
Cut Volume (CY)	41
Fill Volume (CY)	1

Total Volume at Station 433+00.00	
Cut Area (SF)	43.42
Fill Area (SF)	1.09
Cut Volume (CY)	1
Fill Volume (CY)	0

Total Volume at Station 432+99.32	
Cut Area (SF)	43.41
Fill Area (SF)	1.09
Cut Volume (CY)	39
Fill Volume (CY)	1

Total Volume at Station 432+75.00	
Cut Area (SF)	42.96
Fill Area (SF)	1.13
Cut Volume (CY)	40
Fill Volume (CY)	1



Total Volume at Station 435+75.00	
Cut Area (SF)	46.64
Fill Area (SF)	0.16
Cut Volume (CY)	44
Fill Volume (CY)	0

Total Volume at Station 435+50.00	
Cut Area (SF)	48.27
Fill Area (SF)	0.39
Cut Volume (CY)	45
Fill Volume (CY)	0

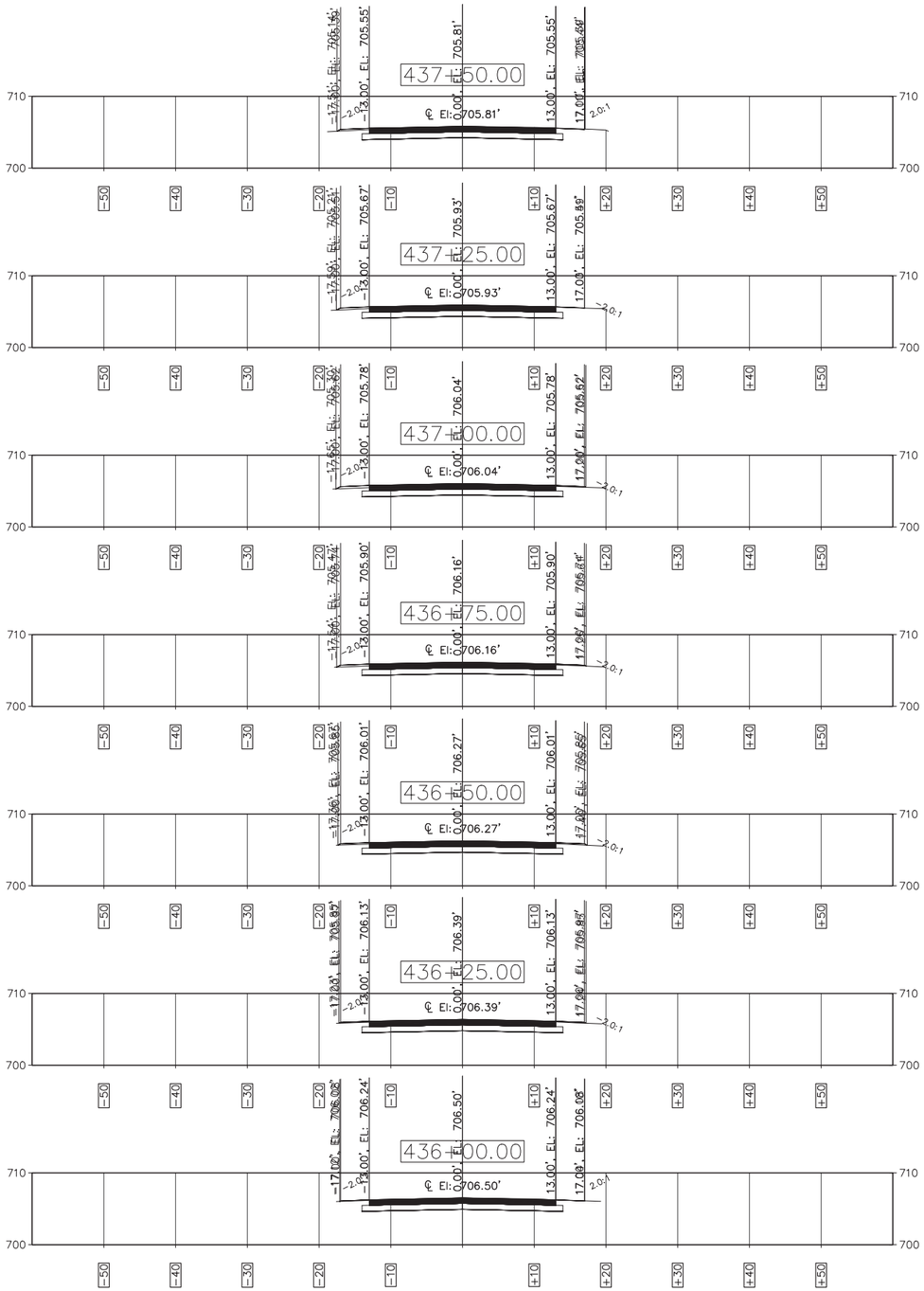
Total Volume at Station 435+25.00	
Cut Area (SF)	48.77
Fill Area (SF)	0.28
Cut Volume (CY)	45
Fill Volume (CY)	0

Total Volume at Station 435+00.00	
Cut Area (SF)	49.26
Fill Area (SF)	0.04
Cut Volume (CY)	46
Fill Volume (CY)	0

Total Volume at Station 434+75.00	
Cut Area (SF)	49.59
Fill Area (SF)	0.00
Cut Volume (CY)	46
Fill Volume (CY)	0

Total Volume at Station 434+50.00	
Cut Area (SF)	50.00
Fill Area (SF)	0.00
Cut Volume (CY)	46
Fill Volume (CY)	0

Total Volume at Station 434+25.00	
Cut Area (SF)	49.73
Fill Area (SF)	0.00
Cut Volume (CY)	46
Fill Volume (CY)	0



Total Volume at Station 437+50.00	
Cut Area (SF)	44.07
Fill Area (SF)	0.69
Cut Volume (CY)	40
Fill Volume (CY)	1

Total Volume at Station 437+25.00	
Cut Area (SF)	42.02
Fill Area (SF)	0.93
Cut Volume (CY)	38
Fill Volume (CY)	1

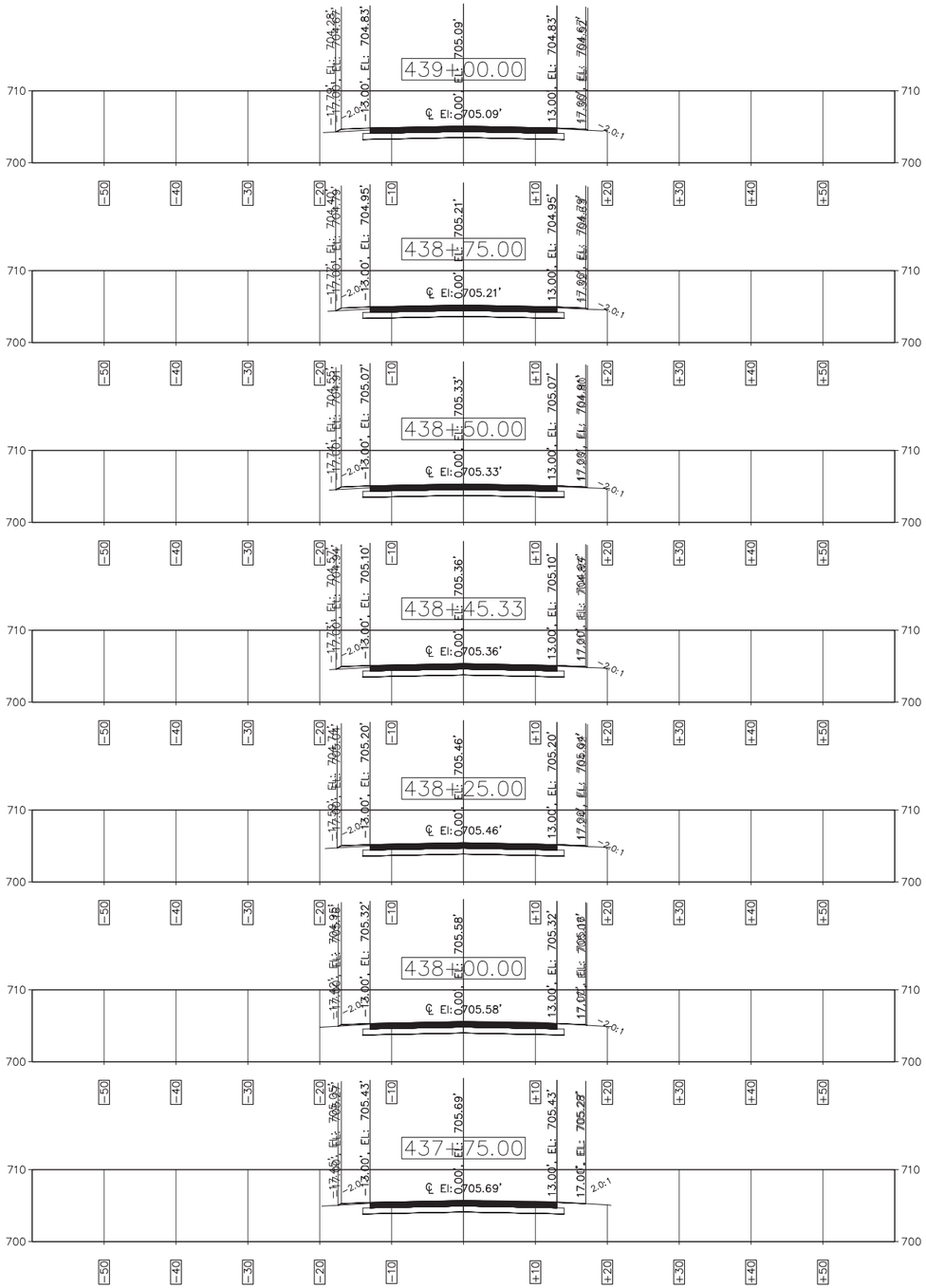
Total Volume at Station 437+00.00	
Cut Area (SF)	39.59
Fill Area (SF)	1.31
Cut Volume (CY)	37
Fill Volume (CY)	1

Total Volume at Station 436+75.00	
Cut Area (SF)	39.61
Fill Area (SF)	1.23
Cut Volume (CY)	37
Fill Volume (CY)	1

Total Volume at Station 436+50.00	
Cut Area (SF)	40.39
Fill Area (SF)	1.11
Cut Volume (CY)	38
Fill Volume (CY)	1

Total Volume at Station 436+25.00	
Cut Area (SF)	42.33
Fill Area (SF)	0.71
Cut Volume (CY)	40
Fill Volume (CY)	0

Total Volume at Station 436+00.00	
Cut Area (SF)	44.63
Fill Area (SF)	0.19
Cut Volume (CY)	42
Fill Volume (CY)	0



Total Volume at Station 439+00.00	
Cut Area (SF)	40.76
Fill Area (SF)	1.46
Cut Volume (CY)	38
Fill Volume (CY)	1

Total Volume at Station 438+75.00	
Cut Area (SF)	40.58
Fill Area (SF)	1.51
Cut Volume (CY)	38
Fill Volume (CY)	1

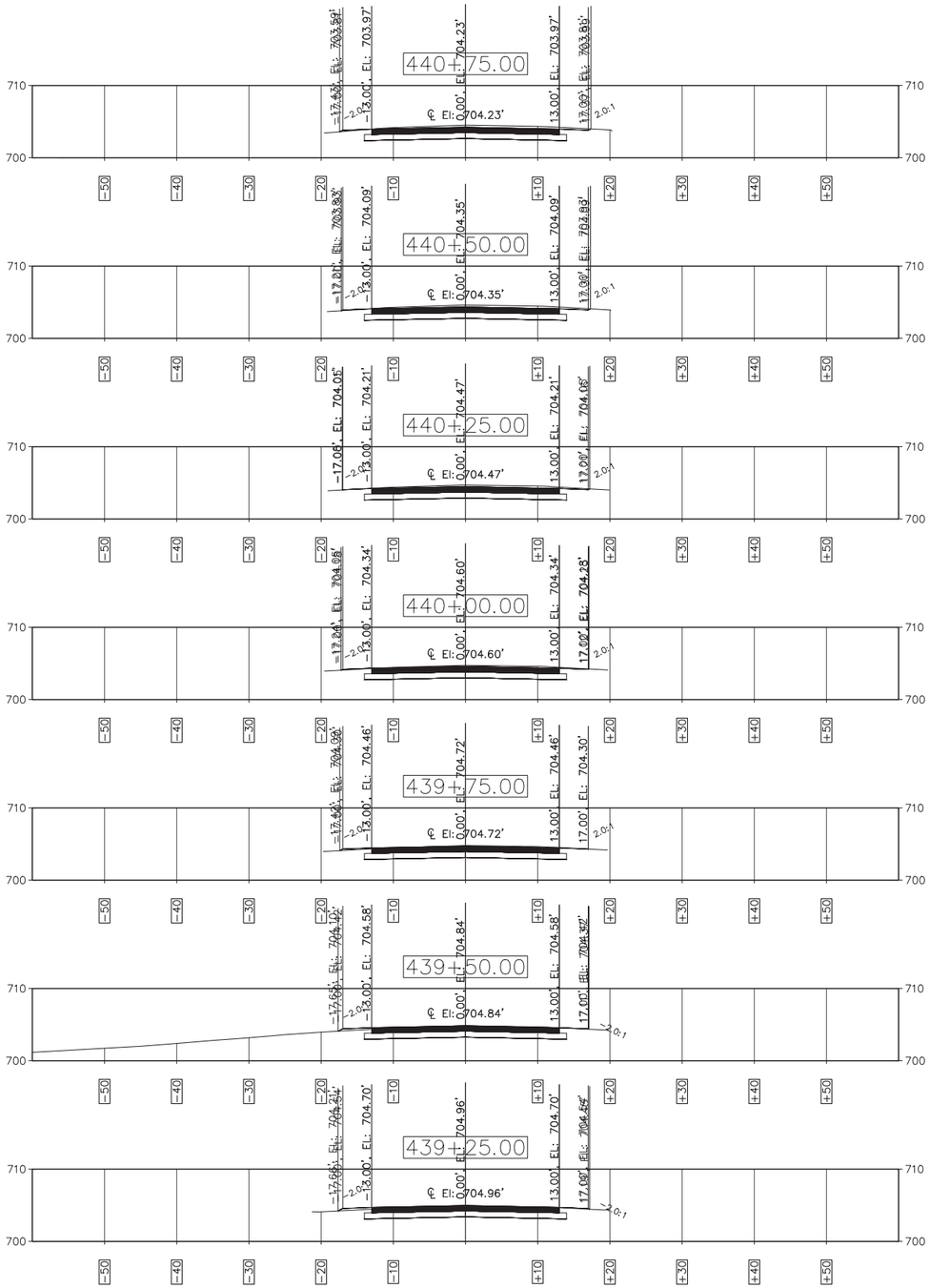
Total Volume at Station 438+50.00	
Cut Area (SF)	40.88
Fill Area (SF)	1.36
Cut Volume (CY)	7
Fill Volume (CY)	0

Total Volume at Station 438+45.33	
Cut Area (SF)	40.99
Fill Area (SF)	1.33
Cut Volume (CY)	32
Fill Volume (CY)	1

Total Volume at Station 438+25.00	
Cut Area (SF)	42.72
Fill Area (SF)	1.11
Cut Volume (CY)	41
Fill Volume (CY)	1

Total Volume at Station 438+00.00	
Cut Area (SF)	45.04
Fill Area (SF)	0.64
Cut Volume (CY)	42
Fill Volume (CY)	1

Total Volume at Station 437+75.00	
Cut Area (SF)	45.20
Fill Area (SF)	0.56
Cut Volume (CY)	41
Fill Volume (CY)	1



Total Volume at Station 440+75.00	
Cut Area (SF)	51.45
Fill Area (SF)	0.38
Cut Volume (CY)	48
Fill Volume (CY)	0

Total Volume at Station 440+50.00	
Cut Area (SF)	51.25
Fill Area (SF)	0.21
Cut Volume (CY)	47
Fill Volume (CY)	0

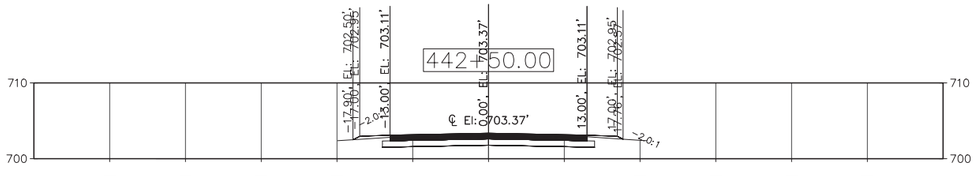
Total Volume at Station 440+25.00	
Cut Area (SF)	50.21
Fill Area (SF)	0.04
Cut Volume (CY)	45
Fill Volume (CY)	0

Total Volume at Station 440+00.00	
Cut Area (SF)	47.84
Fill Area (SF)	0.26
Cut Volume (CY)	43
Fill Volume (CY)	0

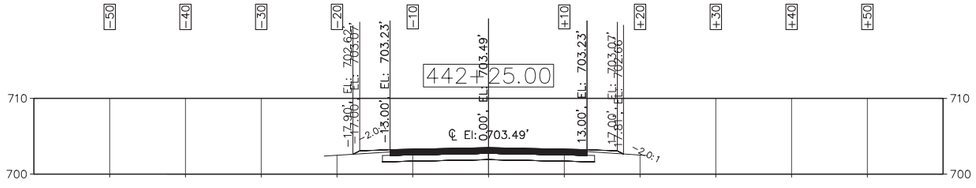
Total Volume at Station 439+75.00	
Cut Area (SF)	45.43
Fill Area (SF)	0.53
Cut Volume (CY)	41
Fill Volume (CY)	1

Total Volume at Station 439+50.00	
Cut Area (SF)	43.50
Fill Area (SF)	1.00
Cut Volume (CY)	40
Fill Volume (CY)	1

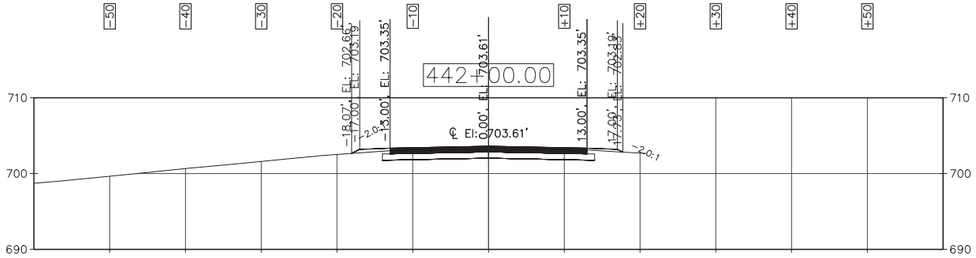
Total Volume at Station 439+25.00	
Cut Area (SF)	41.89
Fill Area (SF)	1.16
Cut Volume (CY)	38
Fill Volume (CY)	1



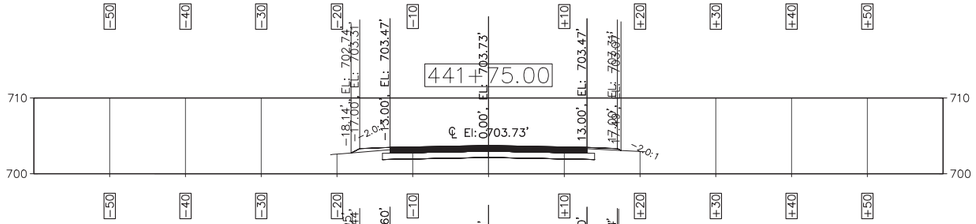
Total Volume at Station 442+50.00	
Cut Area (SF)	40.34
Fill Area (SF)	2.22
Cut Volume (CY)	37
Fill Volume (CY)	2



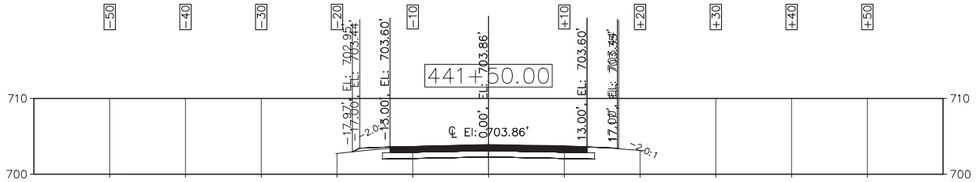
Total Volume at Station 442+25.00	
Cut Area (SF)	39.14
Fill Area (SF)	2.35
Cut Volume (CY)	36
Fill Volume (CY)	2



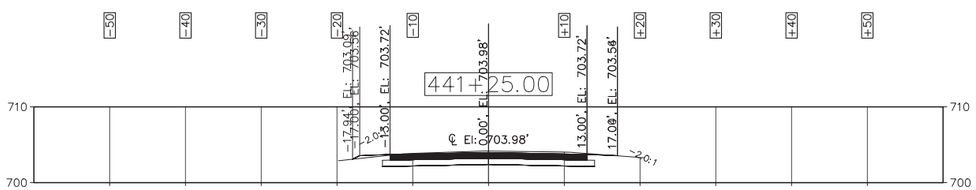
Total Volume at Station 442+00.00	
Cut Area (SF)	39.50
Fill Area (SF)	2.47
Cut Volume (CY)	37
Fill Volume (CY)	2



Total Volume at Station 441+75.00	
Cut Area (SF)	40.87
Fill Area (SF)	2.16
Cut Volume (CY)	40
Fill Volume (CY)	2

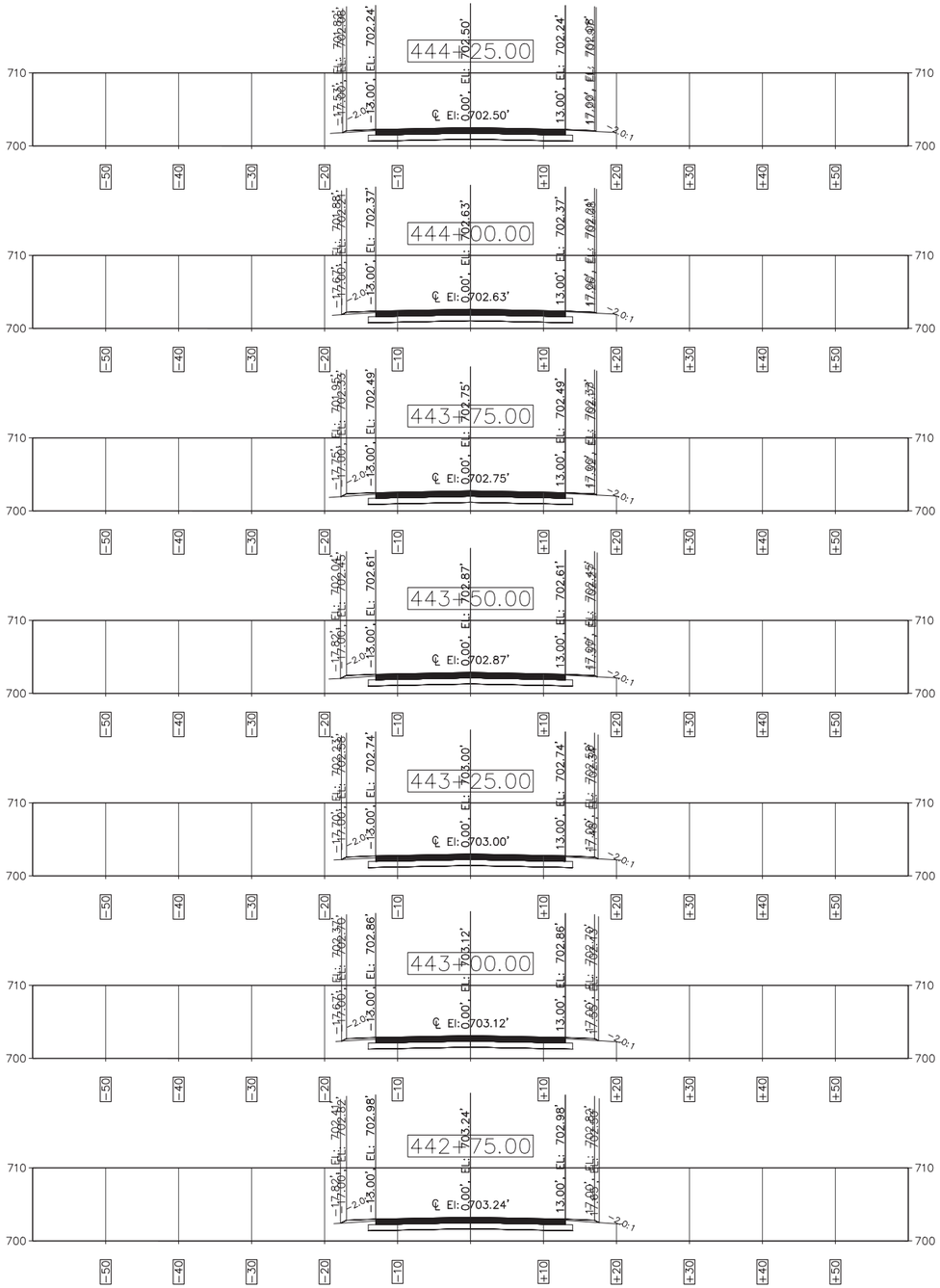


Total Volume at Station 441+50.00	
Cut Area (SF)	45.00
Fill Area (SF)	1.16
Cut Volume (CY)	43
Fill Volume (CY)	1



Total Volume at Station 441+25.00	
Cut Area (SF)	48.63
Fill Area (SF)	0.98
Cut Volume (CY)	46
Fill Volume (CY)	1

Total Volume at Station 441+00.00	
Cut Area (SF)	49.97
Fill Area (SF)	0.76
Cut Volume (CY)	47
Fill Volume (CY)	1



Total Volume at Station 444+25.00	
Cut Area (SF)	42.72
Fill Area (SF)	0.92
Cut Volume (CY)	40
Fill Volume (CY)	1

Total Volume at Station 444+00.00	
Cut Area (SF)	42.87
Fill Area (SF)	1.19
Cut Volume (CY)	39
Fill Volume (CY)	1

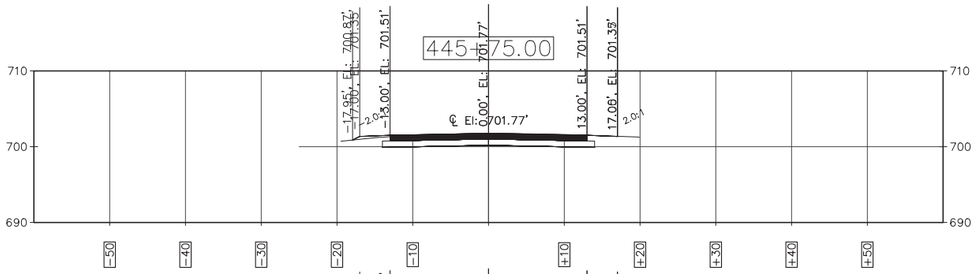
Total Volume at Station 443+75.00	
Cut Area (SF)	42.35
Fill Area (SF)	1.38
Cut Volume (CY)	39
Fill Volume (CY)	1

Total Volume at Station 443+50.00	
Cut Area (SF)	41.85
Fill Area (SF)	1.57
Cut Volume (CY)	39
Fill Volume (CY)	1

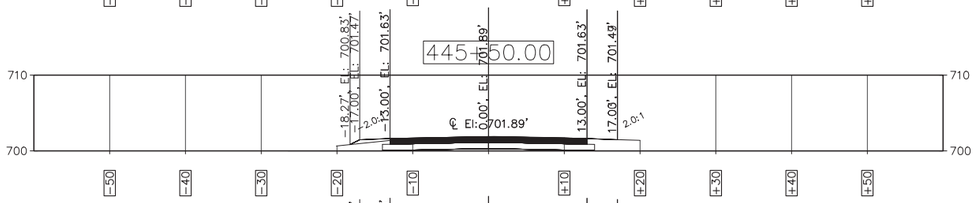
Total Volume at Station 443+25.00	
Cut Area (SF)	41.39
Fill Area (SF)	1.59
Cut Volume (CY)	38
Fill Volume (CY)	1

Total Volume at Station 443+00.00	
Cut Area (SF)	41.17
Fill Area (SF)	1.59
Cut Volume (CY)	38
Fill Volume (CY)	2

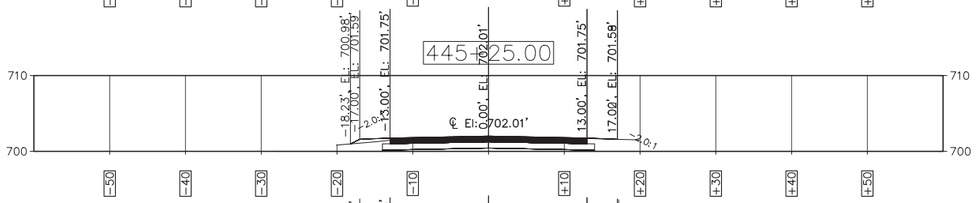
Total Volume at Station 442+75.00	
Cut Area (SF)	41.18
Fill Area (SF)	1.88
Cut Volume (CY)	38
Fill Volume (CY)	2



Total Volume at Station 445+75.00	
Cut Area (SF)	44.07
Fill Area (SF)	1.03
Cut Volume (CY)	41
Fill Volume (CY)	1

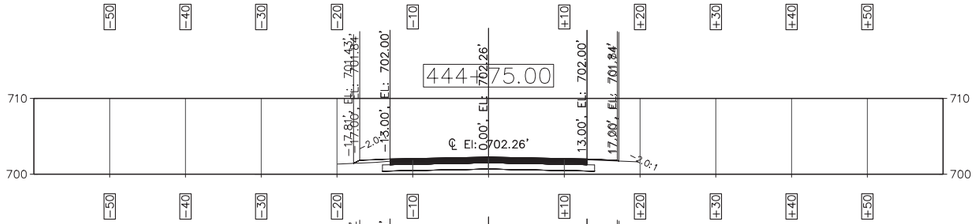


Total Volume at Station 445+50.00	
Cut Area (SF)	43.87
Fill Area (SF)	1.54
Cut Volume (CY)	40
Fill Volume (CY)	2

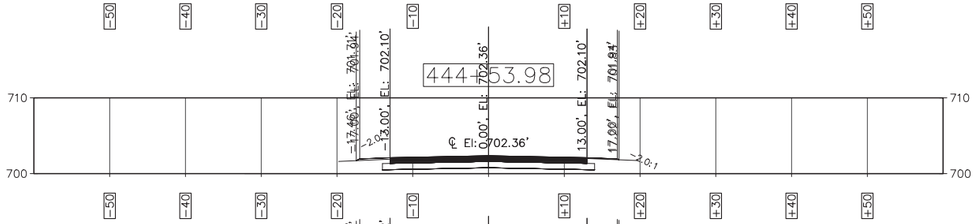


Total Volume at Station 445+25.00	
Cut Area (SF)	42.50
Fill Area (SF)	1.72
Cut Volume (CY)	39
Fill Volume (CY)	2

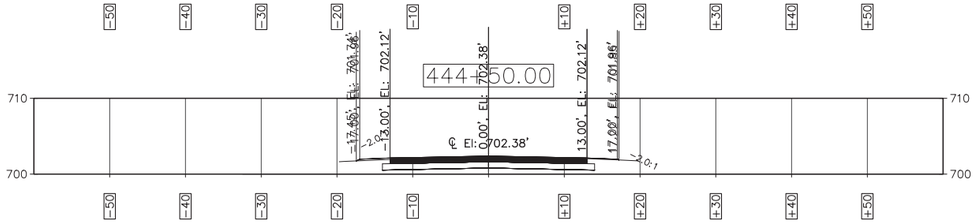
Total Volume at Station 445+00.00	
Cut Area (SF)	41.03
Fill Area (SF)	1.72
Cut Volume (CY)	38
Fill Volume (CY)	1



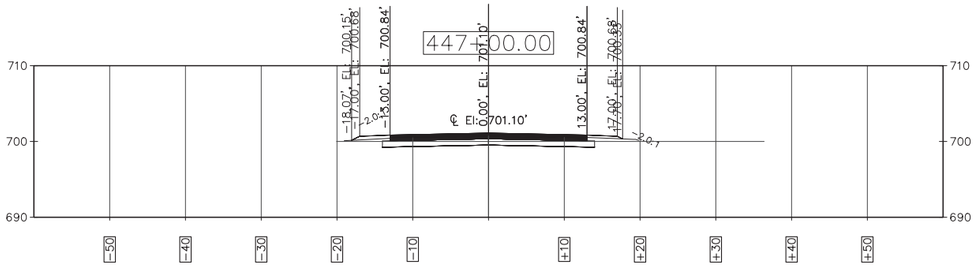
Total Volume at Station 444+75.00	
Cut Area (SF)	41.41
Fill Area (SF)	1.52
Cut Volume (CY)	32
Fill Volume (CY)	1



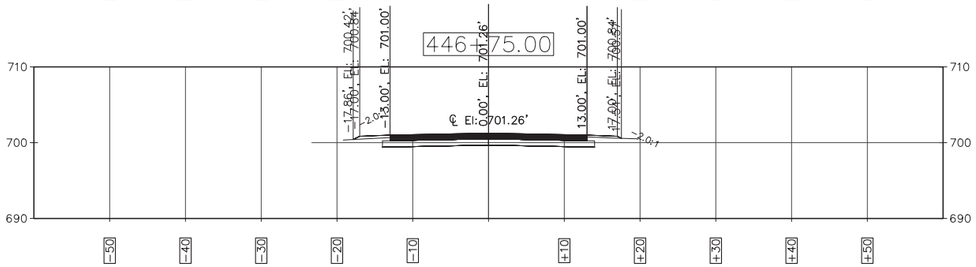
Total Volume at Station 444+53.98	
Cut Area (SF)	42.03
Fill Area (SF)	0.98
Cut Volume (CY)	6
Fill Volume (CY)	0



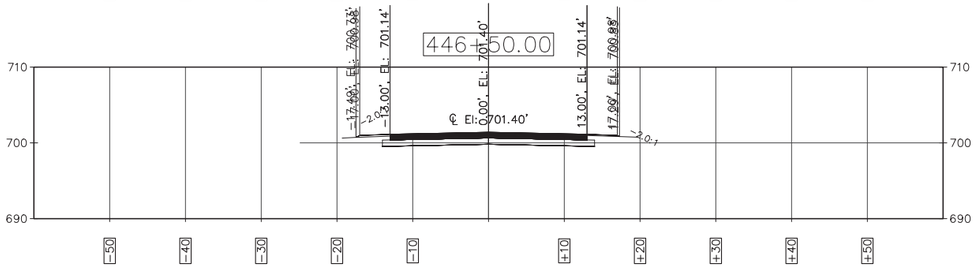
Total Volume at Station 444+50.00	
Cut Area (SF)	42.13
Fill Area (SF)	0.95
Cut Volume (CY)	39
Fill Volume (CY)	1



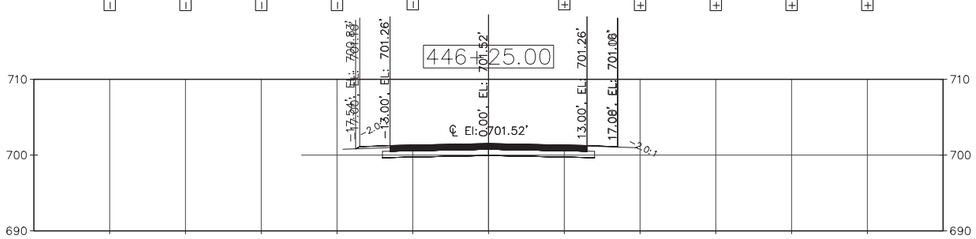
Total Volume at Station 447+00.00	
Cut Area (SF)	35.53
Fill Area (SF)	2.71
Cut Volume (CY)	34
Fill Volume (CY)	2



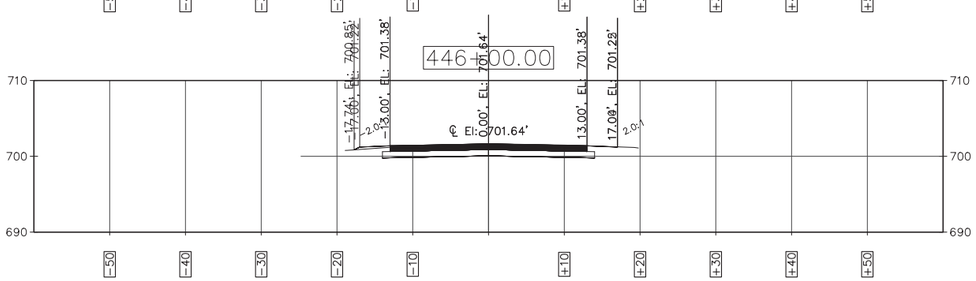
Total Volume at Station 446+75.00	
Cut Area (SF)	37.70
Fill Area (SF)	2.08
Cut Volume (CY)	36
Fill Volume (CY)	2



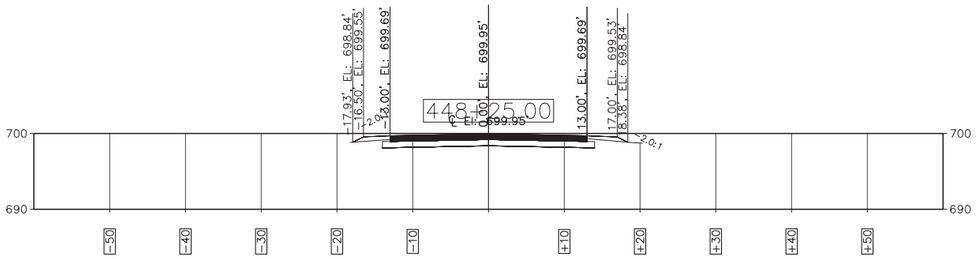
Total Volume at Station 446+50.00	
Cut Area (SF)	40.03
Fill Area (SF)	1.21
Cut Volume (CY)	38
Fill Volume (CY)	1



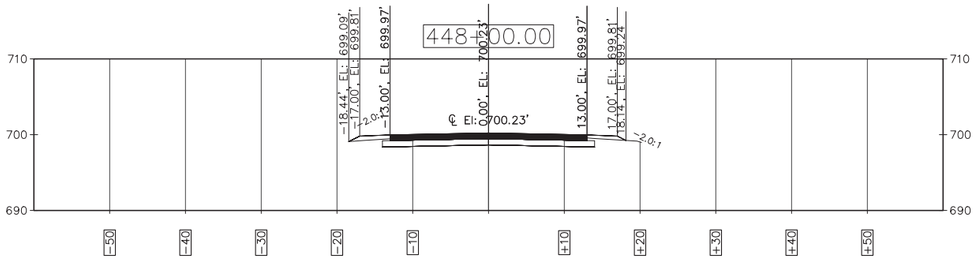
Total Volume at Station 446+25.00	
Cut Area (SF)	42.05
Fill Area (SF)	0.99
Cut Volume (CY)	40
Fill Volume (CY)	1



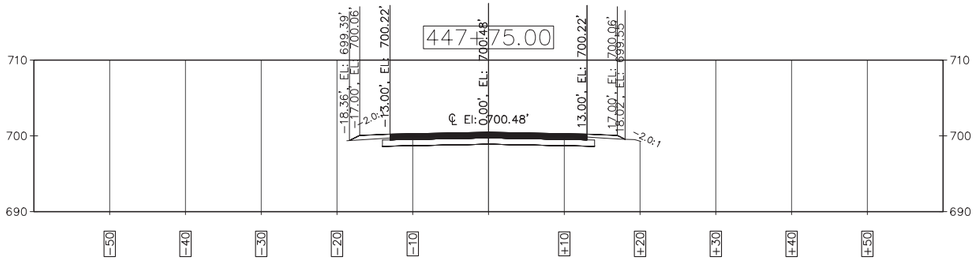
Total Volume at Station 446+00.00	
Cut Area (SF)	43.87
Fill Area (SF)	0.93
Cut Volume (CY)	41
Fill Volume (CY)	1



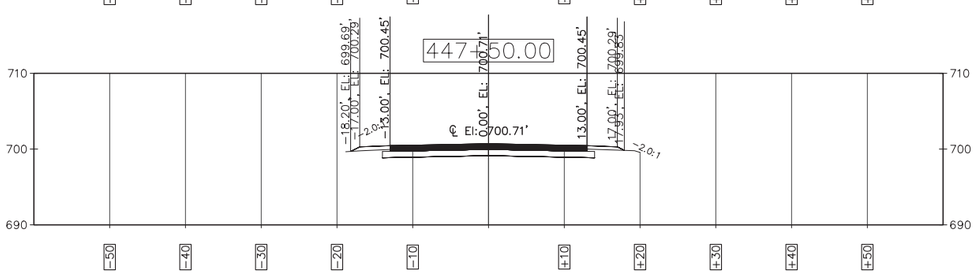
Total Volume at Station 448+25.00	
Cut Area (SF)	35.70
Fill Area (SF)	3.72
Cut Volume (CY)	33
Fill Volume (CY)	3



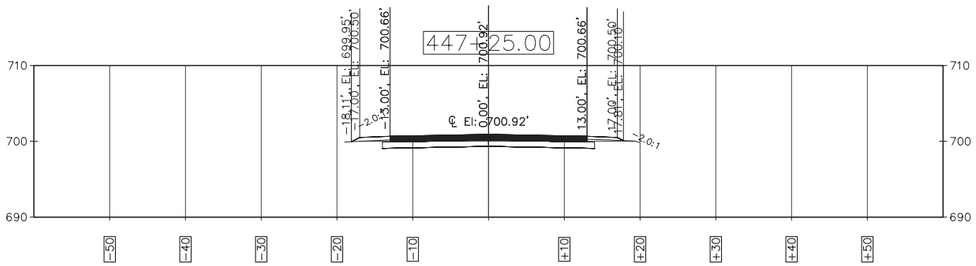
Total Volume at Station 448+00.00	
Cut Area (SF)	35.19
Fill Area (SF)	3.83
Cut Volume (CY)	32
Fill Volume (CY)	3



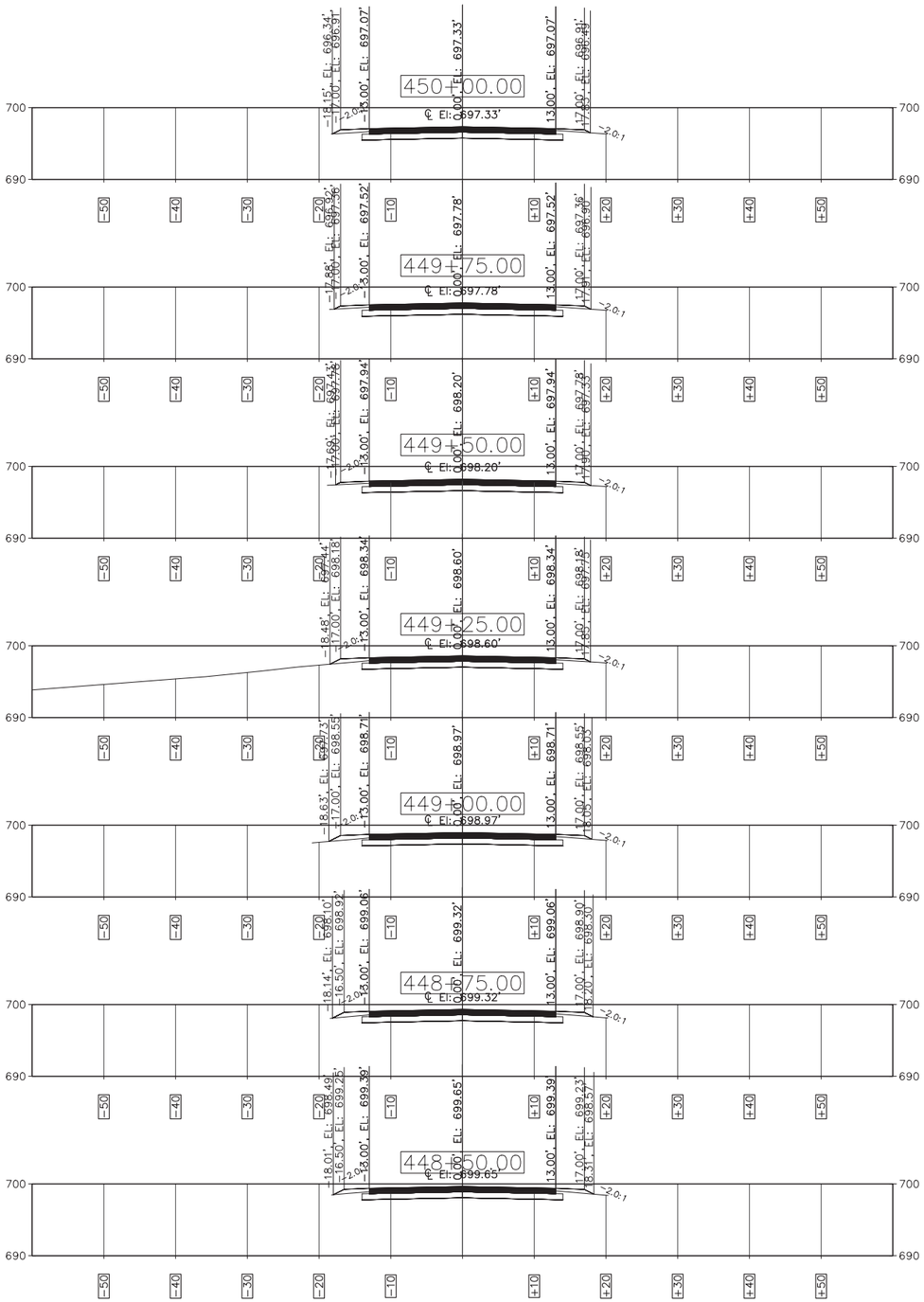
Total Volume at Station 447+75.00	
Cut Area (SF)	34.53
Fill Area (SF)	3.60
Cut Volume (CY)	31
Fill Volume (CY)	3



Total Volume at Station 447+50.00	
Cut Area (SF)	33.06
Fill Area (SF)	3.37
Cut Volume (CY)	31
Fill Volume (CY)	3



Total Volume at Station 447+25.00	
Cut Area (SF)	33.49
Fill Area (SF)	3.03
Cut Volume (CY)	32
Fill Volume (CY)	3



Total Volume at Station 450+00.00	
Cut Area (SF)	38.31
Fill Area (SF)	2.82
Cut Volume (CY)	35
Fill Volume (CY)	2

Total Volume at Station 449+75.00	
Cut Area (SF)	38.29
Fill Area (SF)	2.47
Cut Volume (CY)	35
Fill Volume (CY)	2

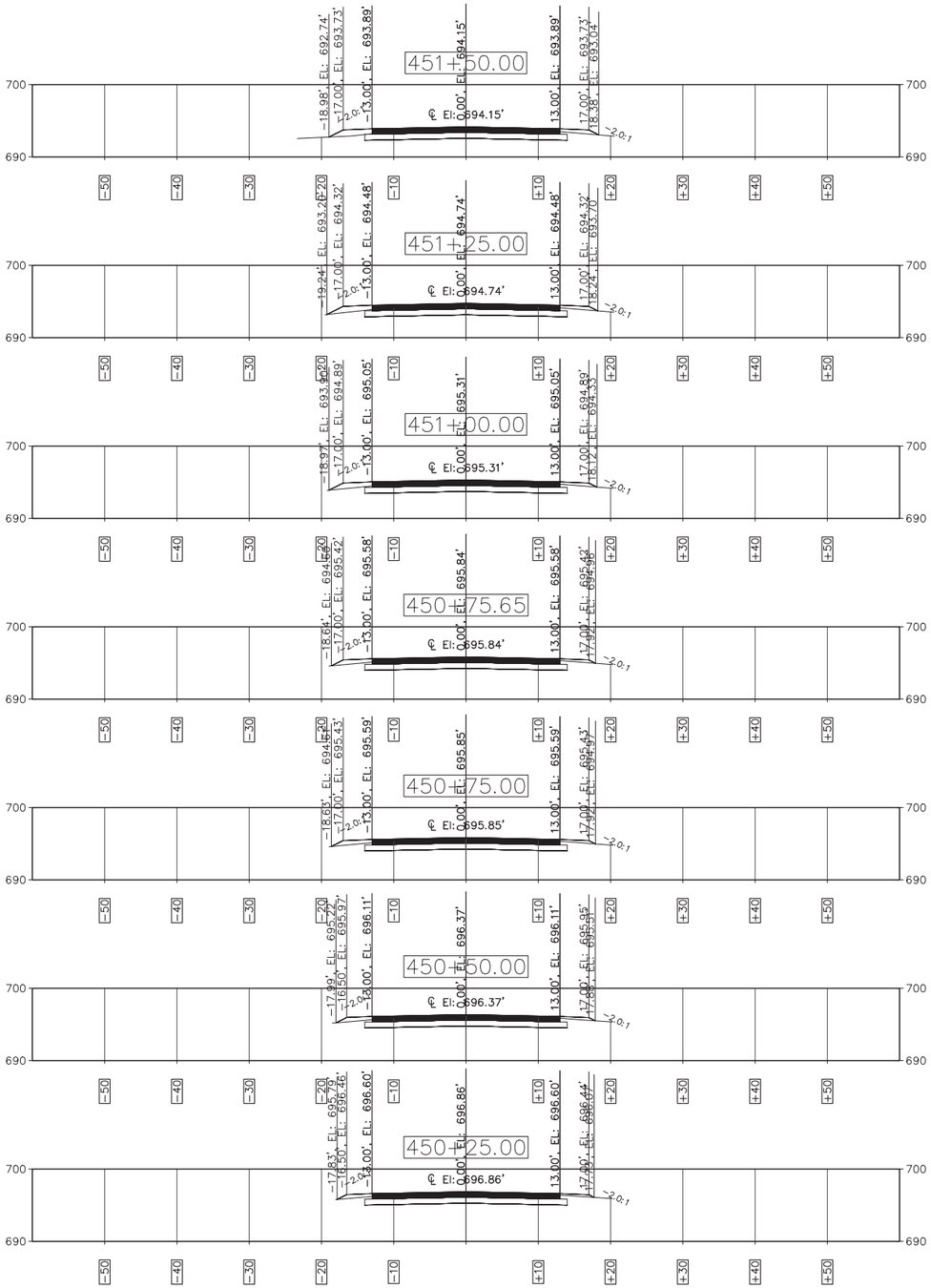
Total Volume at Station 449+50.00	
Cut Area (SF)	38.26
Fill Area (SF)	2.30
Cut Volume (CY)	35
Fill Volume (CY)	3

Total Volume at Station 449+25.00	
Cut Area (SF)	37.47
Fill Area (SF)	3.25
Cut Volume (CY)	34
Fill Volume (CY)	3

Total Volume at Station 449+00.00	
Cut Area (SF)	36.55
Fill Area (SF)	3.78
Cut Volume (CY)	34
Fill Volume (CY)	3

Total Volume at Station 448+75.00	
Cut Area (SF)	36.12
Fill Area (SF)	3.73
Cut Volume (CY)	33
Fill Volume (CY)	3

Total Volume at Station 448+50.00	
Cut Area (SF)	35.97
Fill Area (SF)	3.66
Cut Volume (CY)	33
Fill Volume (CY)	3



Total Volume at Station 451+50.00	
Cut Area (SF)	34.44
Fill Area (SF)	5.35
Cut Volume (CY)	32
Fill Volume (CY)	5

Total Volume at Station 451+25.00	
Cut Area (SF)	35.38
Fill Area (SF)	4.98
Cut Volume (CY)	33
Fill Volume (CY)	4

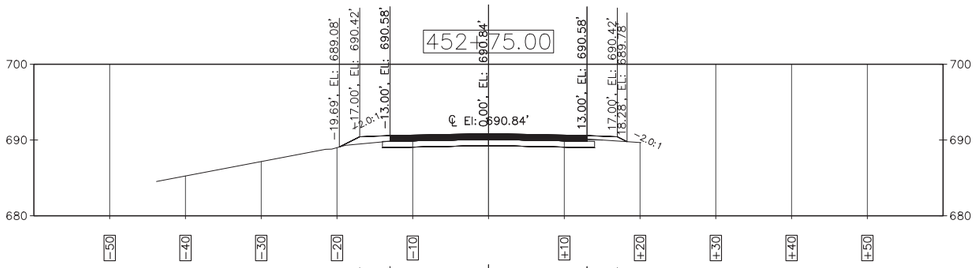
Total Volume at Station 451+00.00	
Cut Area (SF)	36.67
Fill Area (SF)	4.45
Cut Volume (CY)	34
Fill Volume (CY)	4

Total Volume at Station 450+75.65	
Cut Area (SF)	38.61
Fill Area (SF)	3.48
Cut Volume (CY)	1
Fill Volume (CY)	0

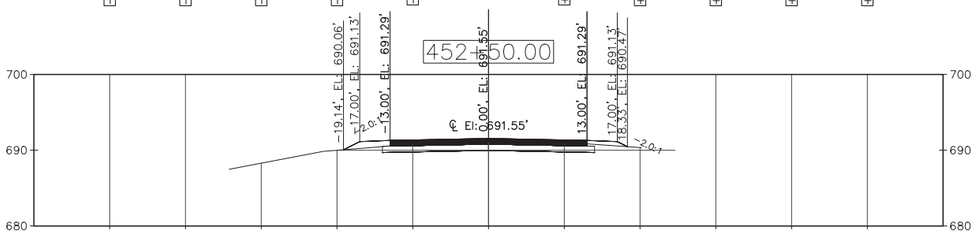
Total Volume at Station 450+75.00	
Cut Area (SF)	38.60
Fill Area (SF)	3.47
Cut Volume (CY)	36
Fill Volume (CY)	3

Total Volume at Station 450+50.00	
Cut Area (SF)	38.45
Fill Area (SF)	3.03
Cut Volume (CY)	36
Fill Volume (CY)	3

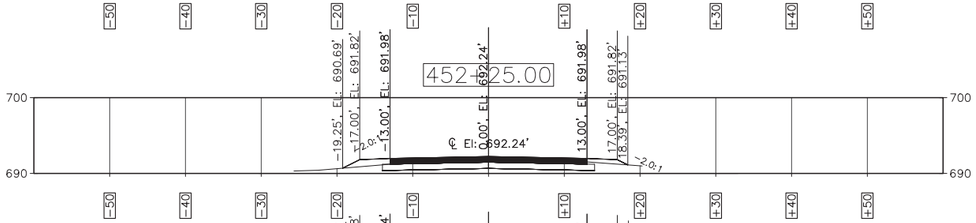
Total Volume at Station 450+25.00	
Cut Area (SF)	38.94
Fill Area (SF)	2.56
Cut Volume (CY)	36
Fill Volume (CY)	2



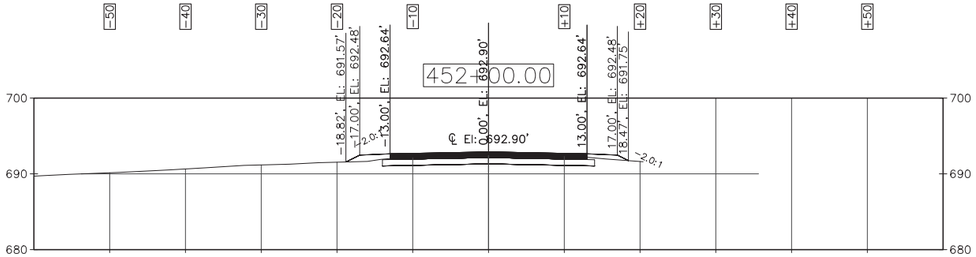
Total Volume at Station 452+75.00	
Cut Area (SF)	30.77
Fill Area (SF)	5.65
Cut Volume (CY)	28
Fill Volume (CY)	5



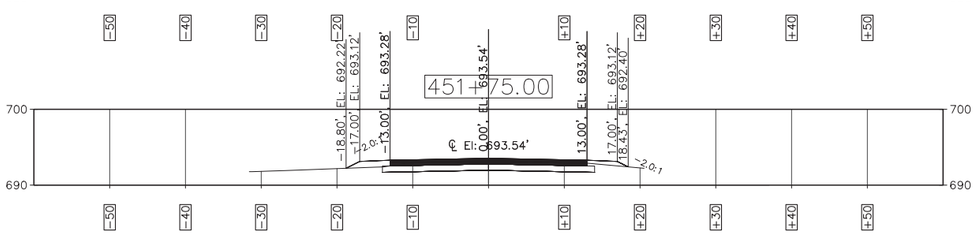
Total Volume at Station 452+50.00	
Cut Area (SF)	30.65
Fill Area (SF)	5.44
Cut Volume (CY)	29
Fill Volume (CY)	5



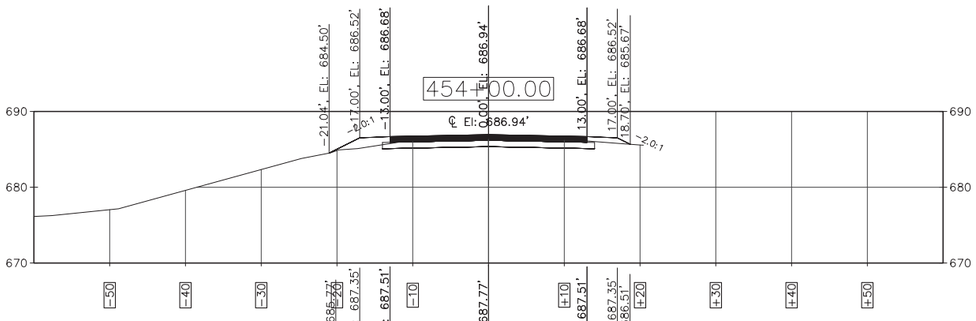
Total Volume at Station 452+25.00	
Cut Area (SF)	31.33
Fill Area (SF)	5.70
Cut Volume (CY)	30
Fill Volume (CY)	5



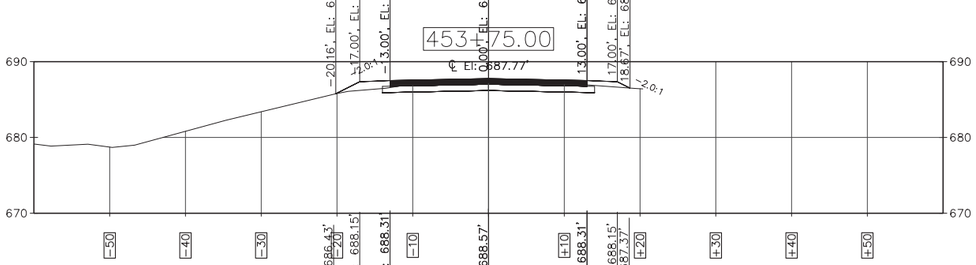
Total Volume at Station 452+00.00	
Cut Area (SF)	32.47
Fill Area (SF)	5.36
Cut Volume (CY)	31
Fill Volume (CY)	5



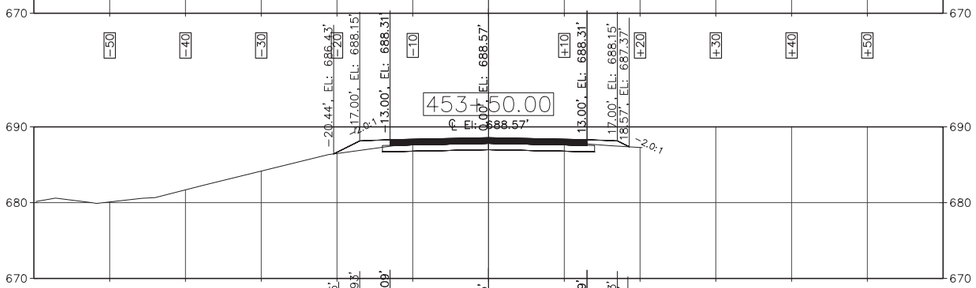
Total Volume at Station 451+75.00	
Cut Area (SF)	33.83
Fill Area (SF)	5.21
Cut Volume (CY)	32
Fill Volume (CY)	5



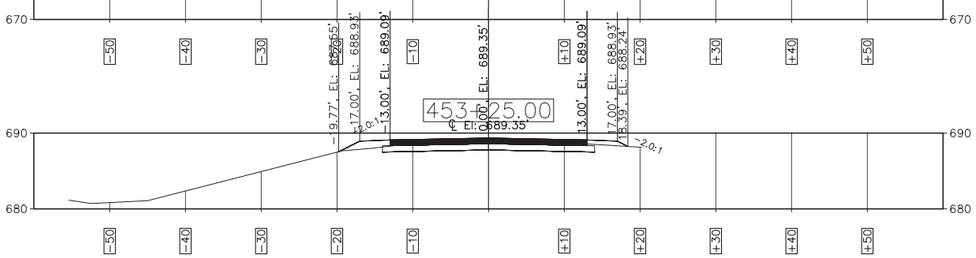
Total Volume at Station 454+00.00	
Cut Area (SF)	28.34
Fill Area (SF)	8.62
Cut Volume (CY)	26
Fill Volume (CY)	7



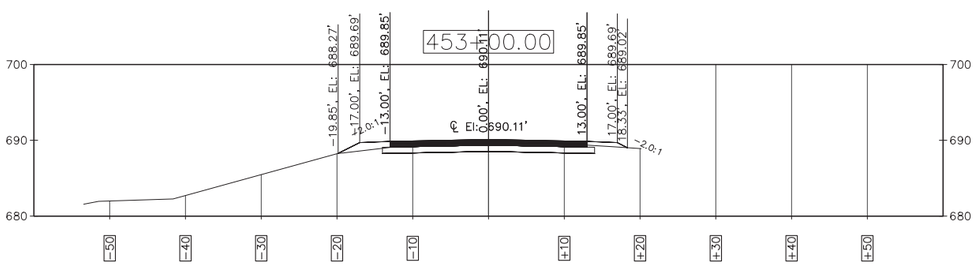
Total Volume at Station 453+75.00	
Cut Area (SF)	28.03
Fill Area (SF)	7.46
Cut Volume (CY)	26
Fill Volume (CY)	7



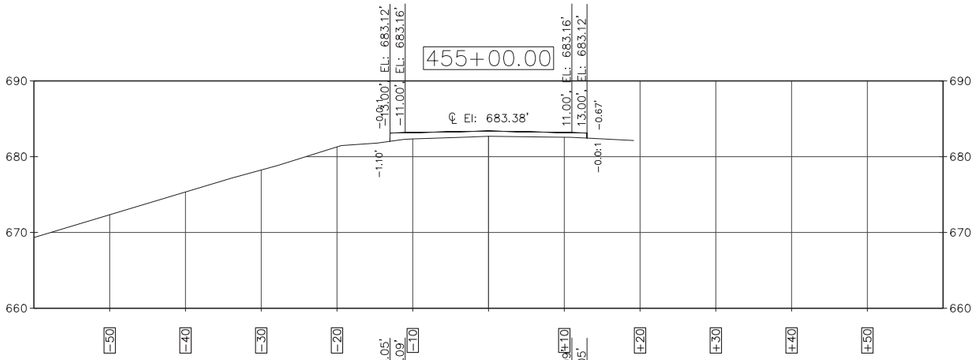
Total Volume at Station 453+50.00	
Cut Area (SF)	28.35
Fill Area (SF)	8.03
Cut Volume (CY)	27
Fill Volume (CY)	7



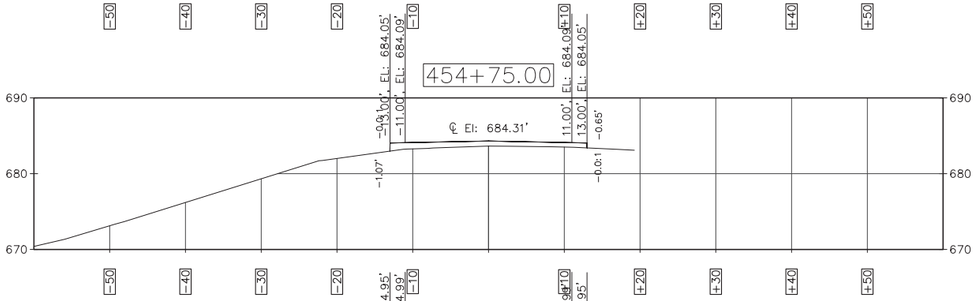
Total Volume at Station 453+25.00	
Cut Area (SF)	29.38
Fill Area (SF)	6.57
Cut Volume (CY)	27
Fill Volume (CY)	6



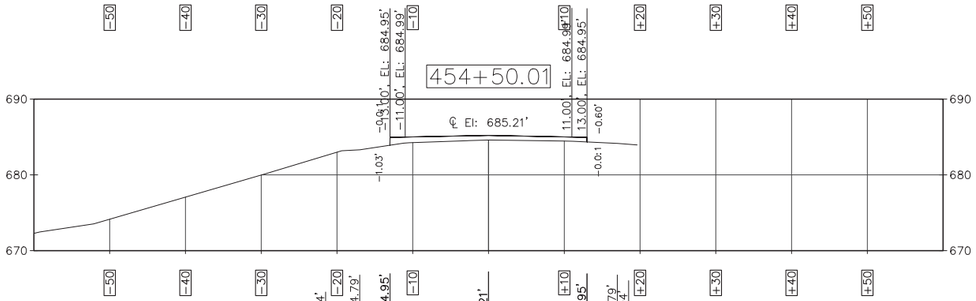
Total Volume at Station 453+00.00	
Cut Area (SF)	29.77
Fill Area (SF)	6.55
Cut Volume (CY)	28
Fill Volume (CY)	6



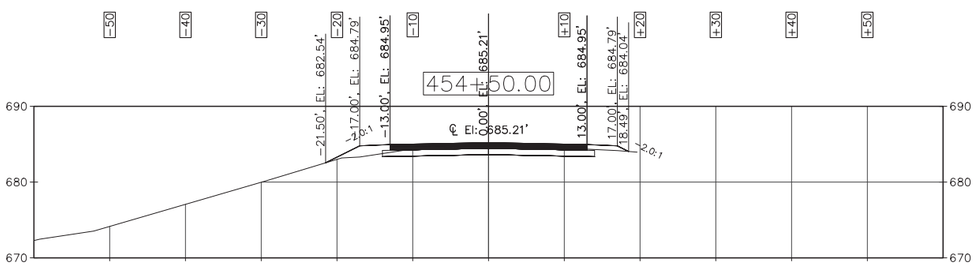
Total Volume at Station 455+00.00	
Cut Area (SF)	0.01
Fill Area (SF)	18.97
Cut Volume (CY)	0
Fill Volume (CY)	17



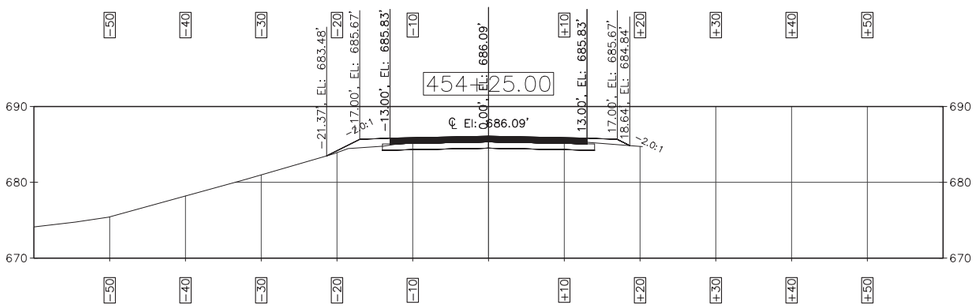
Total Volume at Station 454+75.00	
Cut Area (SF)	0.26
Fill Area (SF)	18.32
Cut Volume (CY)	0
Fill Volume (CY)	20



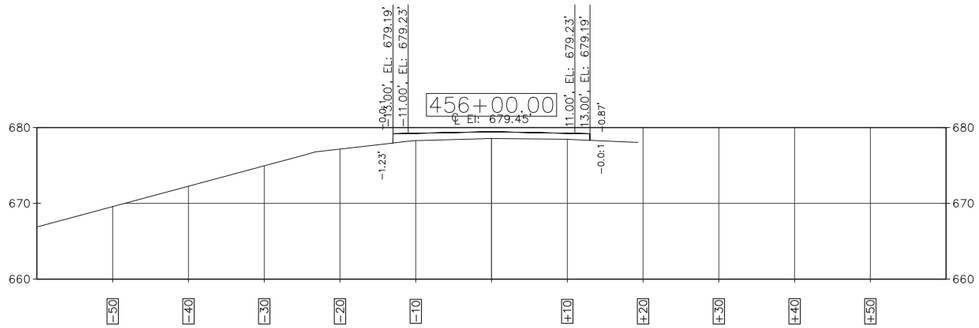
Total Volume at Station 454+50.01	
Cut Area (SF)	0.68
Fill Area (SF)	25.72
Cut Volume (CY)	0
Fill Volume (CY)	0



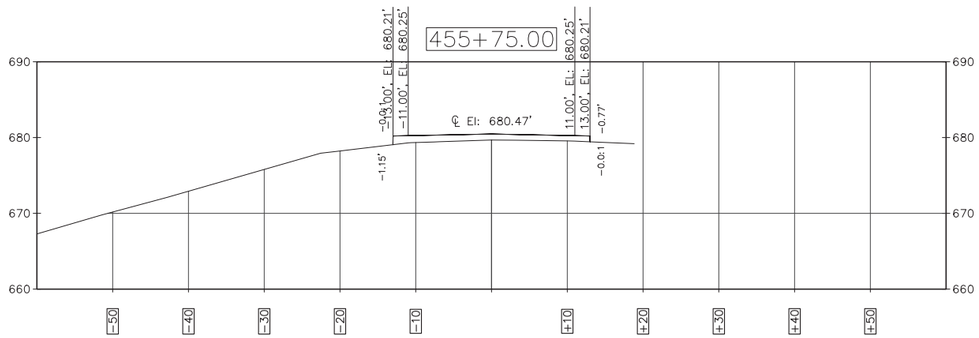
Total Volume at Station 454+50.00	
Cut Area (SF)	25.78
Fill Area (SF)	8.98
Cut Volume (CY)	25
Fill Volume (CY)	8



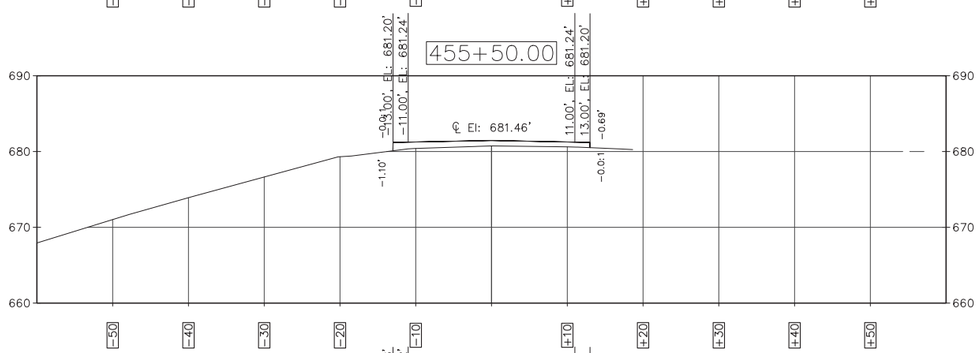
Total Volume at Station 454+25.00	
Cut Area (SF)	28.28
Fill Area (SF)	7.56
Cut Volume (CY)	26
Fill Volume (CY)	7



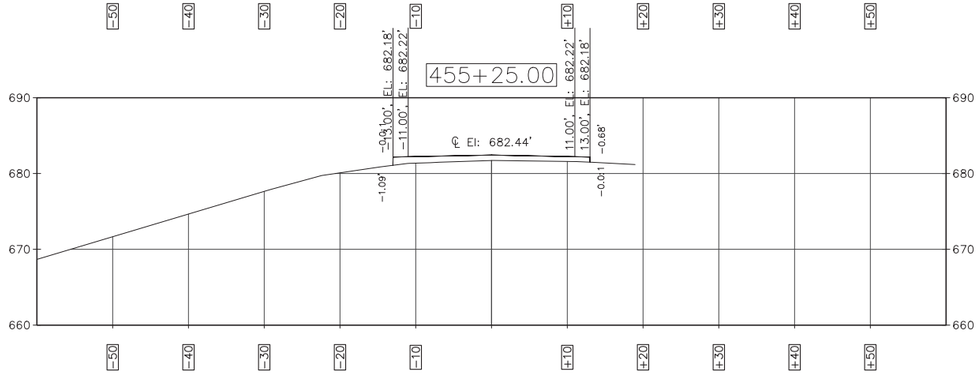
Total Volume at Station 456+00.00	
Cut Area (SF)	0.00
Fill Area (SF)	23.47
Cut Volume (CY)	0
Fill Volume (CY)	21



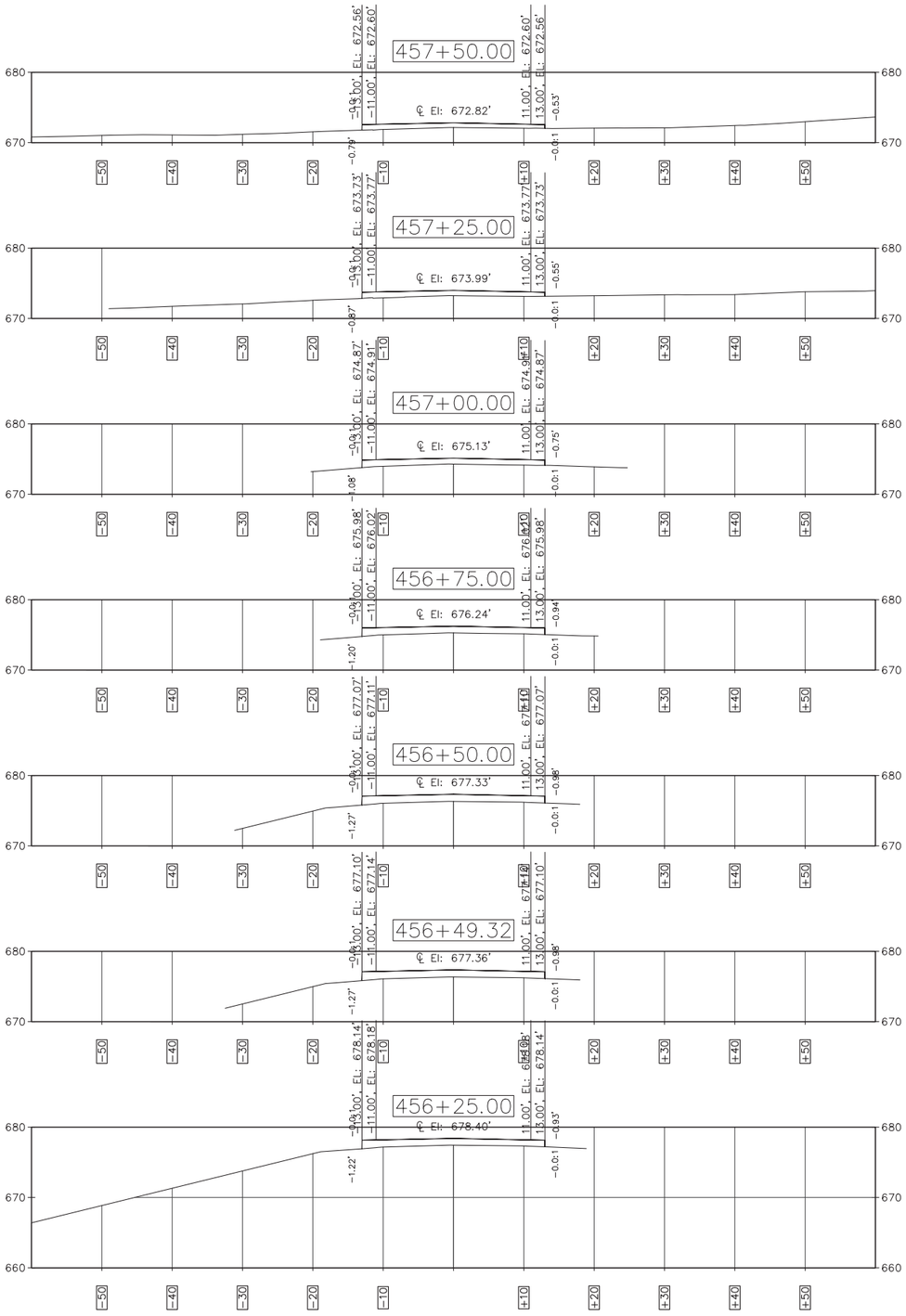
Total Volume at Station 455+75.00	
Cut Area (SF)	0.00
Fill Area (SF)	21.22
Cut Volume (CY)	0
Fill Volume (CY)	19



Total Volume at Station 455+50.00	
Cut Area (SF)	0.00
Fill Area (SF)	19.54
Cut Volume (CY)	0
Fill Volume (CY)	18



Total Volume at Station 455+25.00	
Cut Area (SF)	0.00
Fill Area (SF)	19.37
Cut Volume (CY)	0
Fill Volume (CY)	18



Total Volume at Station 457+50.00	
Cut Area (SF)	0.00
Fill Area (SF)	17.31
Cut Volume (CY)	0
Fill Volume (CY)	17

Total Volume at Station 457+25.00	
Cut Area (SF)	0.00
Fill Area (SF)	19.30
Cut Volume (CY)	0
Fill Volume (CY)	19

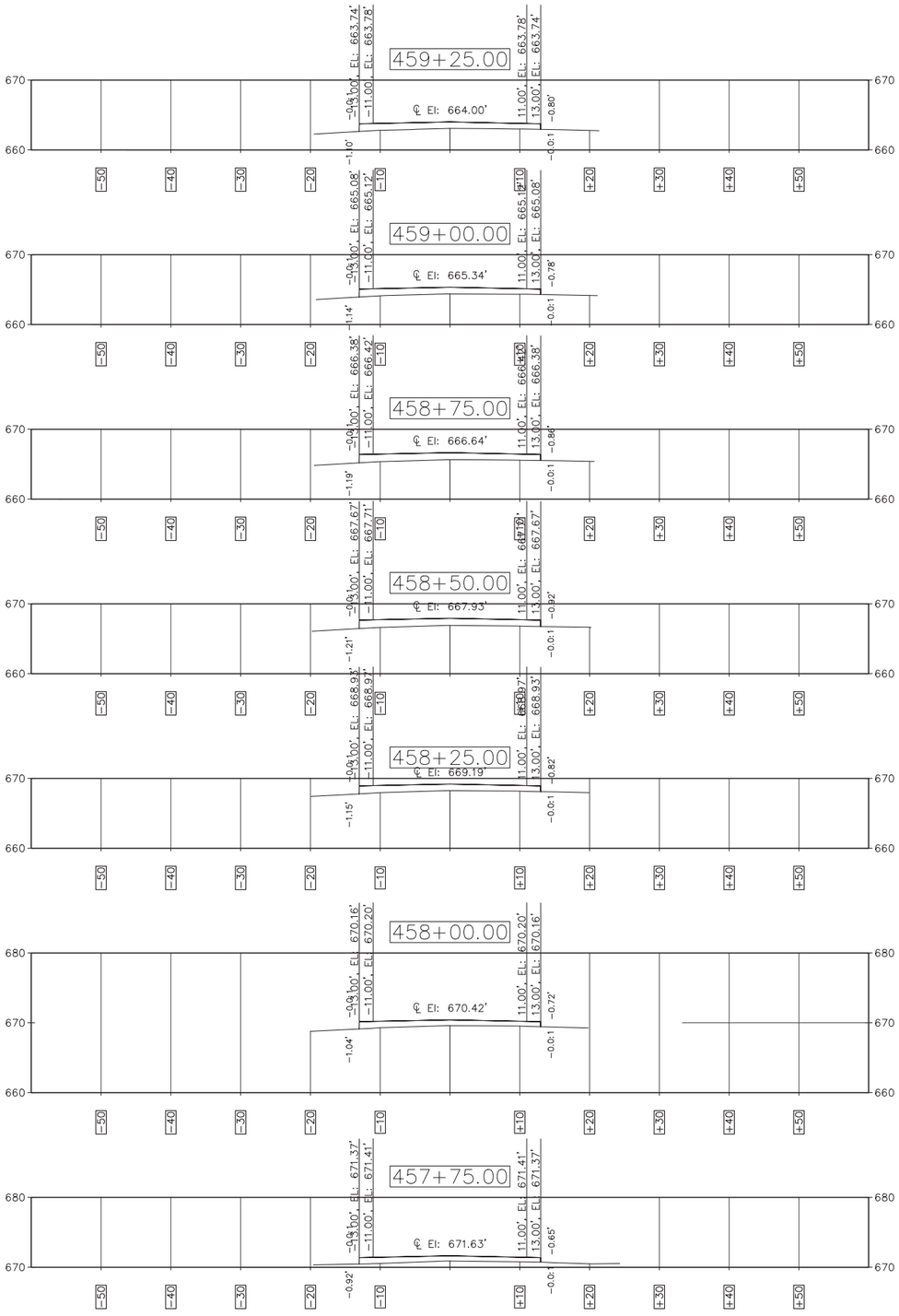
Total Volume at Station 457+00.00	
Cut Area (SF)	0.00
Fill Area (SF)	22.27
Cut Volume (CY)	0
Fill Volume (CY)	22

Total Volume at Station 456+75.00	
Cut Area (SF)	0.00
Fill Area (SF)	25.29
Cut Volume (CY)	0
Fill Volume (CY)	24

Total Volume at Station 456+50.00	
Cut Area (SF)	0.00
Fill Area (SF)	26.38
Cut Volume (CY)	0
Fill Volume (CY)	1

Total Volume at Station 456+49.32	
Cut Area (SF)	0.00
Fill Area (SF)	26.35
Cut Volume (CY)	0
Fill Volume (CY)	23

Total Volume at Station 456+25.00	
Cut Area (SF)	0.00
Fill Area (SF)	25.13
Cut Volume (CY)	0
Fill Volume (CY)	23



Total Volume at Station 459+25.00	
Cut Area (SF)	0.00
Fill Area (SF)	23.74
Cut Volume (CY)	0
Fill Volume (CY)	22

Total Volume at Station 459+00.00	
Cut Area (SF)	0.00
Fill Area (SF)	24.15
Cut Volume (CY)	0
Fill Volume (CY)	23

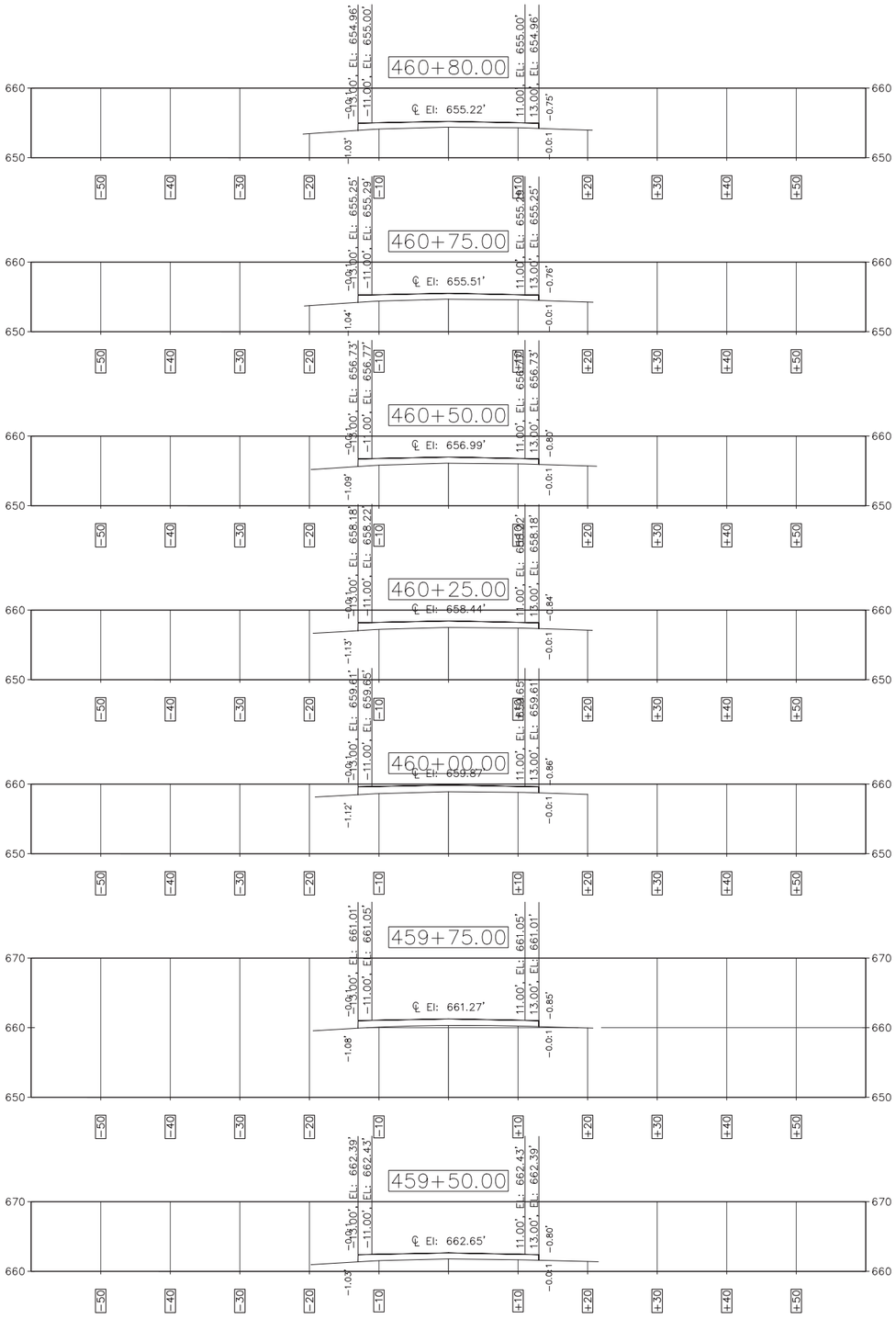
Total Volume at Station 458+75.00	
Cut Area (SF)	0.00
Fill Area (SF)	25.70
Cut Volume (CY)	0
Fill Volume (CY)	24

Total Volume at Station 458+50.00	
Cut Area (SF)	0.00
Fill Area (SF)	26.42
Cut Volume (CY)	0
Fill Volume (CY)	23

Total Volume at Station 458+25.00	
Cut Area (SF)	0.00
Fill Area (SF)	24.22
Cut Volume (CY)	0
Fill Volume (CY)	21

Total Volume at Station 458+00.00	
Cut Area (SF)	0.00
Fill Area (SF)	21.36
Cut Volume (CY)	0
Fill Volume (CY)	19

Total Volume at Station 457+75.00	
Cut Area (SF)	0.00
Fill Area (SF)	19.83
Cut Volume (CY)	0
Fill Volume (CY)	17



Total Volume at Station 460+80.00	
Cut Area (SF)	0.00
Fill Area (SF)	21.47
Cut Volume (CY)	0
Fill Volume (CY)	4

Total Volume at Station 460+75.00	
Cut Area (SF)	0.00
Fill Area (SF)	21.79
Cut Volume (CY)	0
Fill Volume (CY)	21

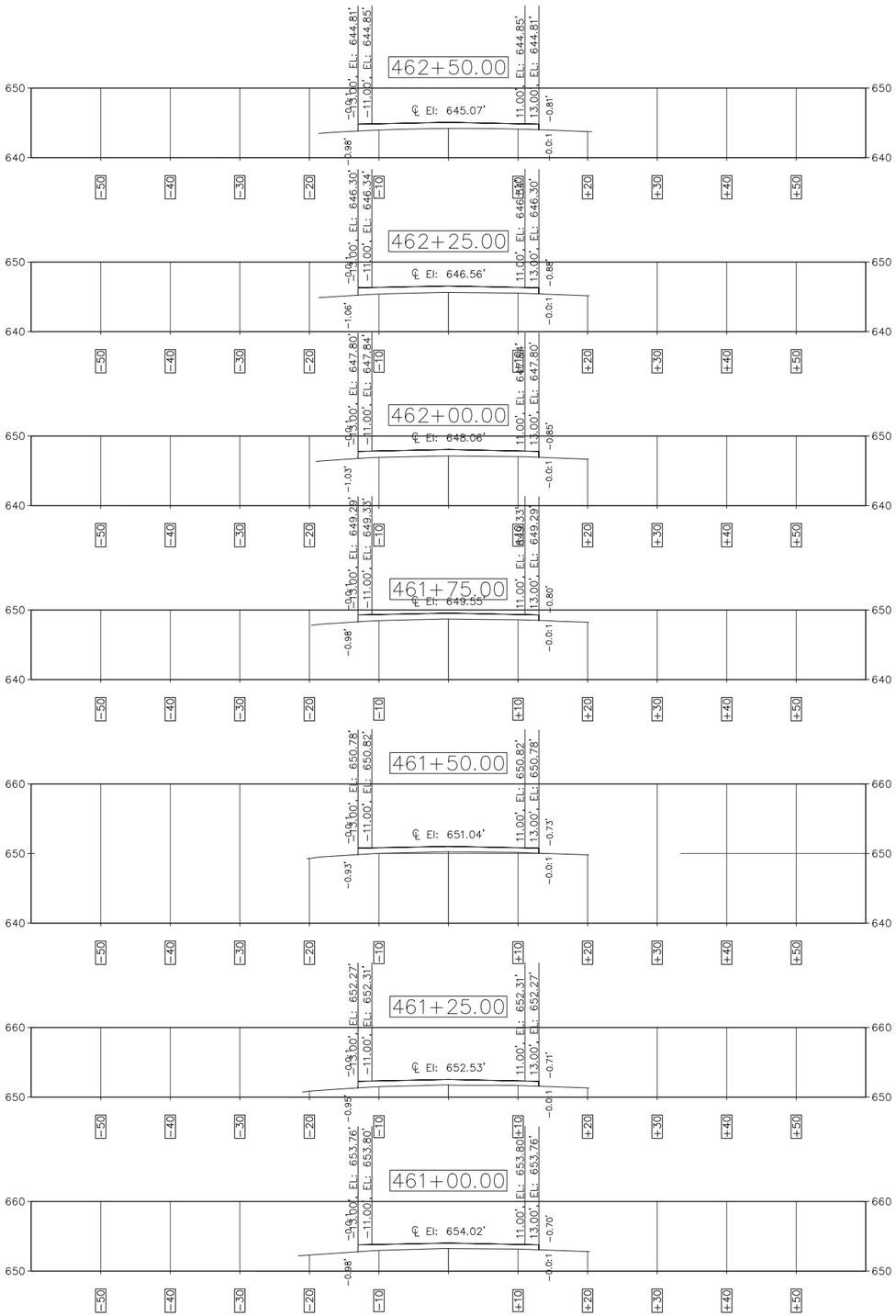
Total Volume at Station 460+50.00	
Cut Area (SF)	0.00
Fill Area (SF)	22.97
Cut Volume (CY)	0
Fill Volume (CY)	22

Total Volume at Station 460+25.00	
Cut Area (SF)	0.00
Fill Area (SF)	24.20
Cut Volume (CY)	0
Fill Volume (CY)	23

Total Volume at Station 460+00.00	
Cut Area (SF)	0.00
Fill Area (SF)	24.79
Cut Volume (CY)	0
Fill Volume (CY)	23

Total Volume at Station 459+75.00	
Cut Area (SF)	0.00
Fill Area (SF)	23.86
Cut Volume (CY)	0
Fill Volume (CY)	22

Total Volume at Station 459+50.00	
Cut Area (SF)	0.00
Fill Area (SF)	22.58
Cut Volume (CY)	0
Fill Volume (CY)	21



Total Volume at Station 462+50.00	
Cut Area (SF)	0.00
Fill Area (SF)	21.95
Cut Volume (CY)	0
Fill Volume (CY)	21

Total Volume at Station 462+25.00	
Cut Area (SF)	0.00
Fill Area (SF)	23.72
Cut Volume (CY)	0
Fill Volume (CY)	22

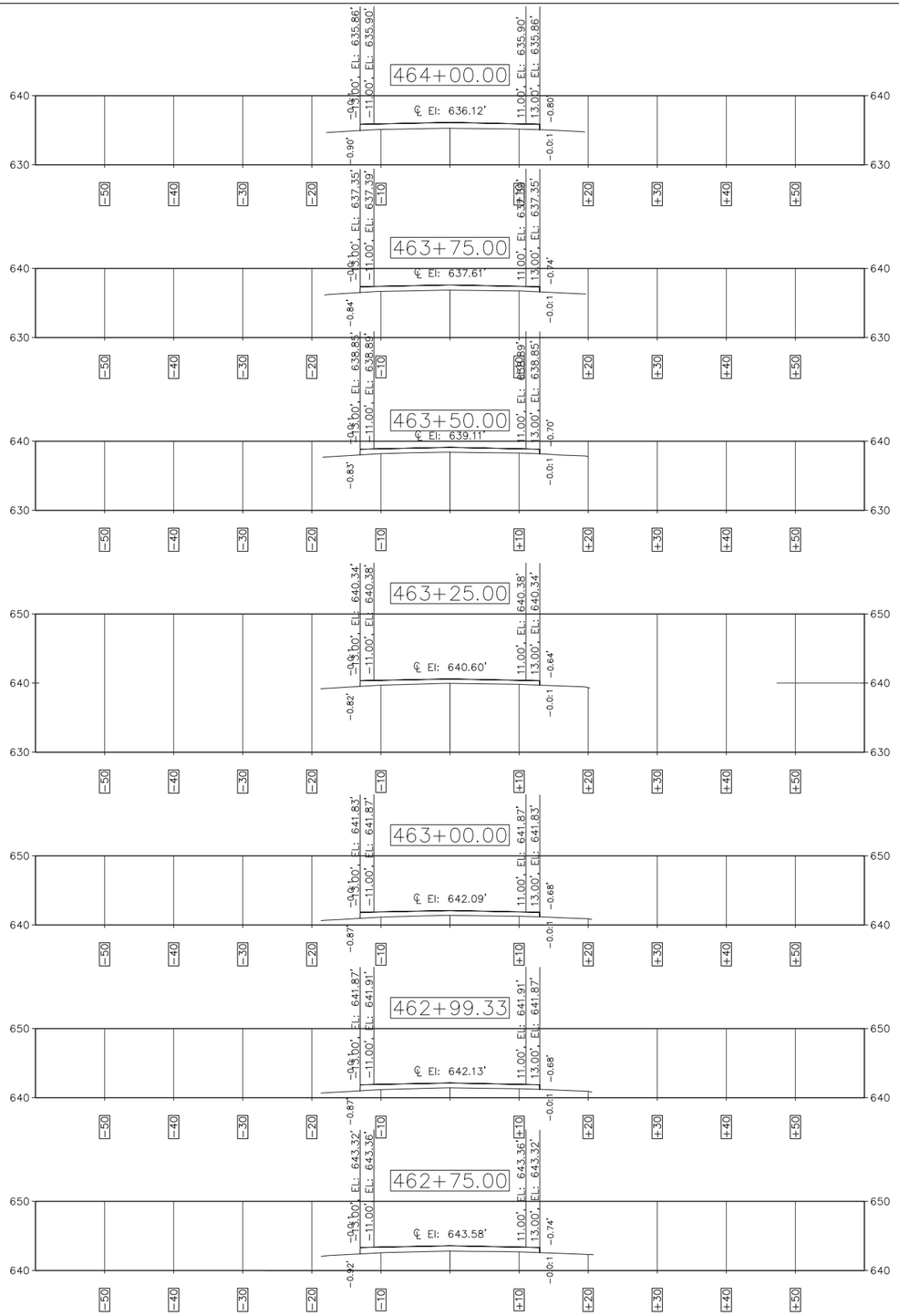
Total Volume at Station 462+00.00	
Cut Area (SF)	0.00
Fill Area (SF)	23.29
Cut Volume (CY)	0
Fill Volume (CY)	21

Total Volume at Station 461+75.00	
Cut Area (SF)	0.00
Fill Area (SF)	21.60
Cut Volume (CY)	0
Fill Volume (CY)	19

Total Volume at Station 461+50.00	
Cut Area (SF)	0.00
Fill Area (SF)	19.99
Cut Volume (CY)	0
Fill Volume (CY)	19

Total Volume at Station 461+25.00	
Cut Area (SF)	0.00
Fill Area (SF)	20.07
Cut Volume (CY)	0
Fill Volume (CY)	19

Total Volume at Station 461+00.00	
Cut Area (SF)	0.00
Fill Area (SF)	20.20
Cut Volume (CY)	0
Fill Volume (CY)	15



Total Volume at Station 464+00.00	
Cut Area (SF)	0.00
Fill Area (SF)	21.04
Cut Volume (CY)	0
Fill Volume (CY)	18

Total Volume at Station 463+75.00	
Cut Area (SF)	0.00
Fill Area (SF)	18.88
Cut Volume (CY)	0
Fill Volume (CY)	17

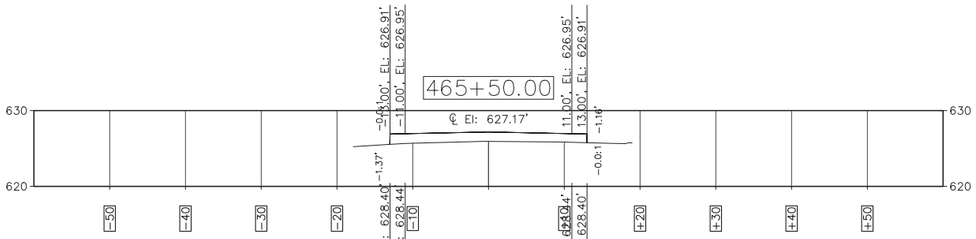
Total Volume at Station 463+50.00	
Cut Area (SF)	0.00
Fill Area (SF)	17.70
Cut Volume (CY)	0
Fill Volume (CY)	16

Total Volume at Station 463+25.00	
Cut Area (SF)	0.00
Fill Area (SF)	16.77
Cut Volume (CY)	0
Fill Volume (CY)	16

Total Volume at Station 463+00.00	
Cut Area (SF)	0.00
Fill Area (SF)	18.21
Cut Volume (CY)	0
Fill Volume (CY)	0

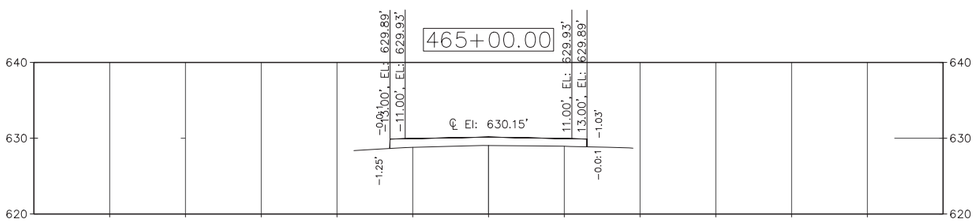
Total Volume at Station 462+99.33	
Cut Area (SF)	0.00
Fill Area (SF)	18.26
Cut Volume (CY)	0
Fill Volume (CY)	17

Total Volume at Station 462+75.00	
Cut Area (SF)	0.00
Fill Area (SF)	19.99
Cut Volume (CY)	0
Fill Volume (CY)	19

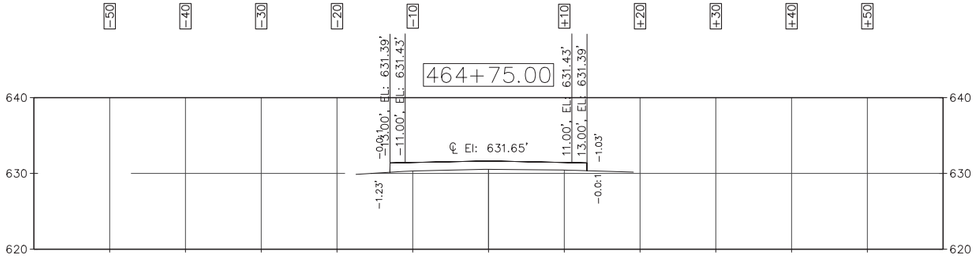


Total Volume at Station 465+50.00	
Cut Area (SF)	0.00
Fill Area (SF)	31.73
Cut Volume (CY)	0
Fill Volume (CY)	28

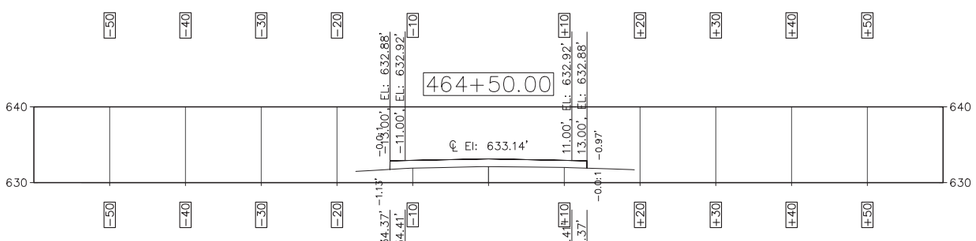
Total Volume at Station 465+25.00	
Cut Area (SF)	0.00
Fill Area (SF)	29.60
Cut Volume (CY)	0
Fill Volume (CY)	27



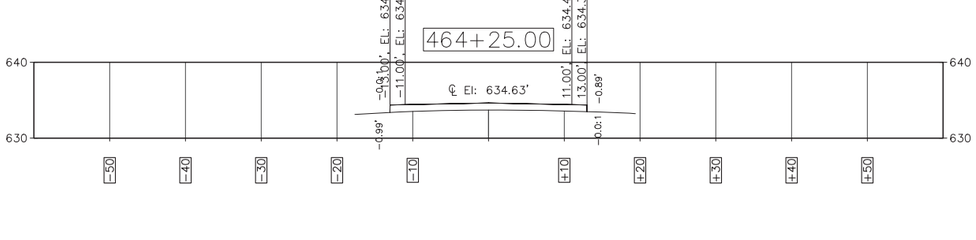
Total Volume at Station 465+00.00	
Cut Area (SF)	0.00
Fill Area (SF)	28.48
Cut Volume (CY)	0
Fill Volume (CY)	26



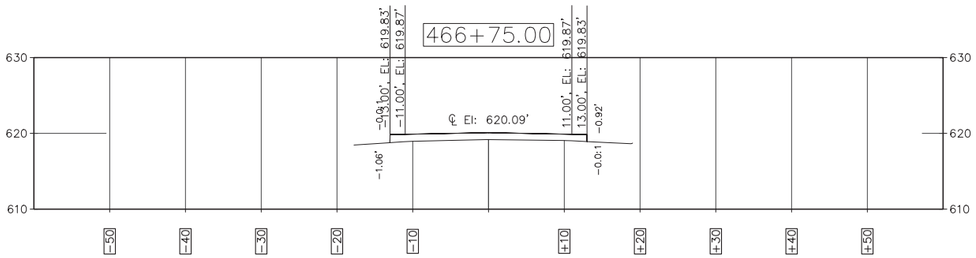
Total Volume at Station 464+75.00	
Cut Area (SF)	0.00
Fill Area (SF)	28.11
Cut Volume (CY)	0
Fill Volume (CY)	25



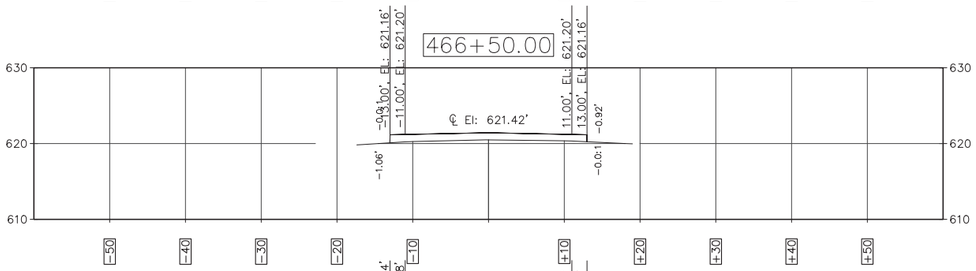
Total Volume at Station 464+50.00	
Cut Area (SF)	0.00
Fill Area (SF)	25.98
Cut Volume (CY)	0
Fill Volume (CY)	23



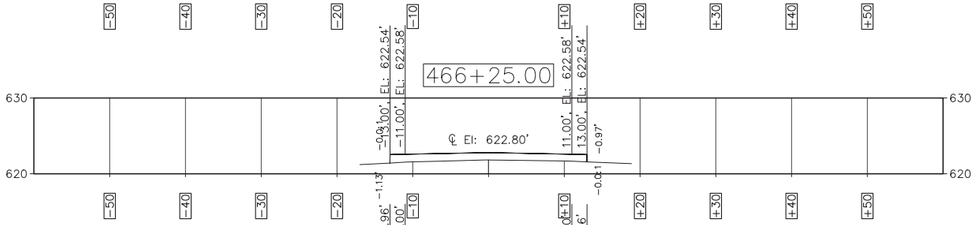
Total Volume at Station 464+25.00	
Cut Area (SF)	0.00
Fill Area (SF)	23.34
Cut Volume (CY)	0
Fill Volume (CY)	21



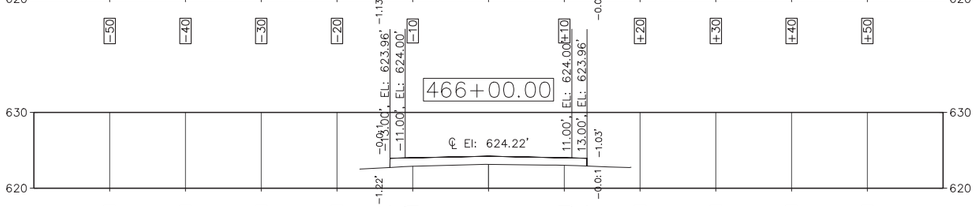
Total Volume at Station 466+75.00	
Cut Area (SF)	0.00
Fill Area (SF)	23.63
Cut Volume (CY)	0
Fill Volume (CY)	22



Total Volume at Station 466+50.00	
Cut Area (SF)	0.00
Fill Area (SF)	24.00
Cut Volume (CY)	0
Fill Volume (CY)	23

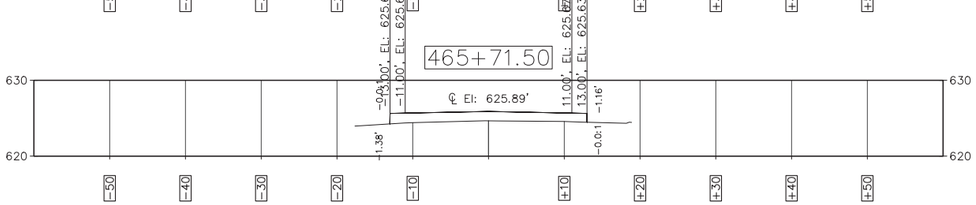


Total Volume at Station 466+25.00	
Cut Area (SF)	0.00
Fill Area (SF)	25.35
Cut Volume (CY)	0
Fill Volume (CY)	25

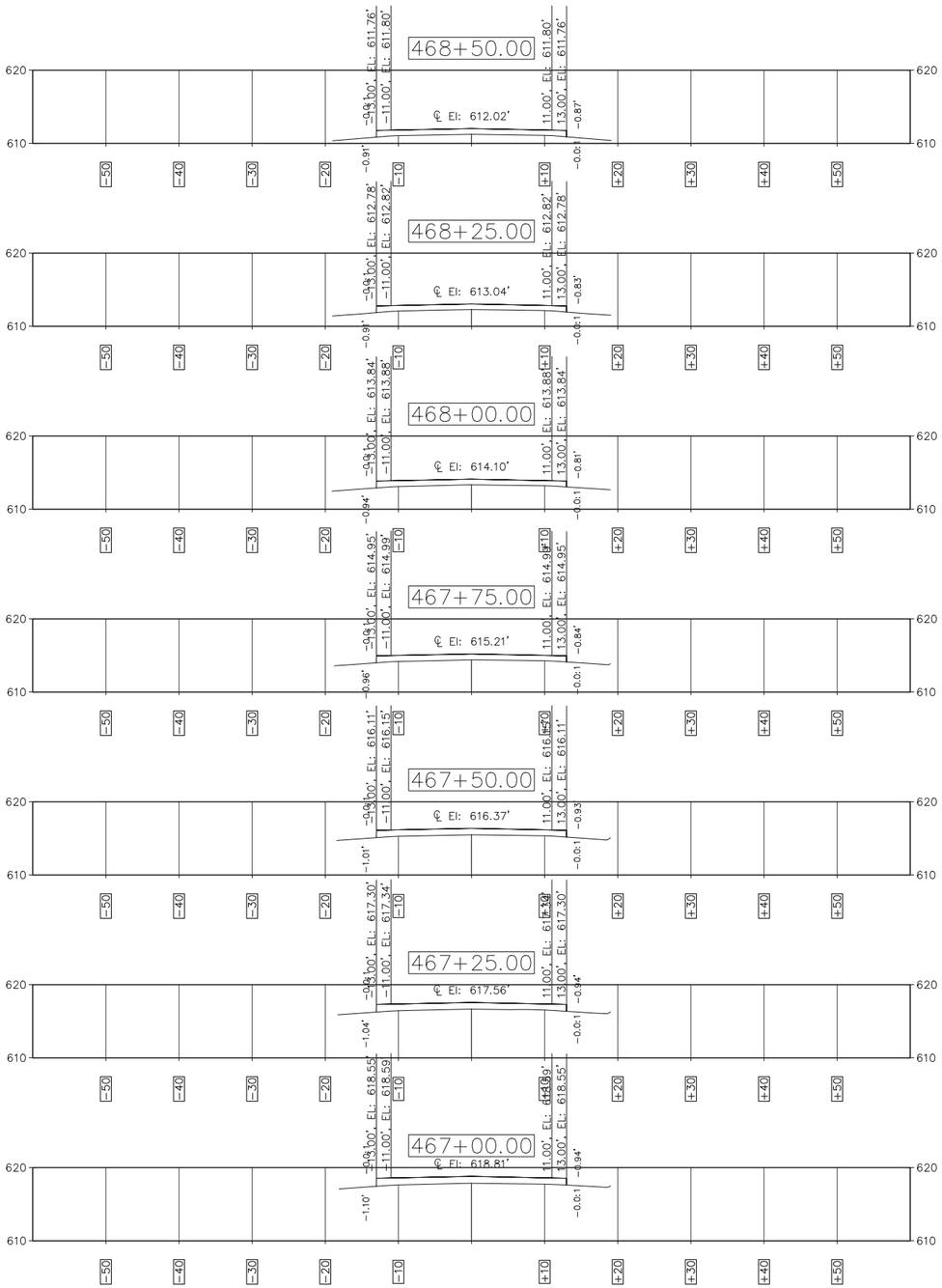


Total Volume at Station 466+00.00	
Cut Area (SF)	0.00
Fill Area (SF)	27.73
Cut Volume (CY)	0
Fill Volume (CY)	27

Total Volume at Station 465+75.00	
Cut Area (SF)	0.00
Fill Area (SF)	31.10
Cut Volume (CY)	0
Fill Volume (CY)	4



Total Volume at Station 465+71.50	
Cut Area (SF)	0.00
Fill Area (SF)	31.65
Cut Volume (CY)	0
Fill Volume (CY)	25



Total Volume at Station 468+50.00	
Cut Area (SF)	0.00
Fill Area (SF)	20.20
Cut Volume (CY)	0
Fill Volume (CY)	18

Total Volume at Station 468+25.00	
Cut Area (SF)	0.00
Fill Area (SF)	19.48
Cut Volume (CY)	0
Fill Volume (CY)	18

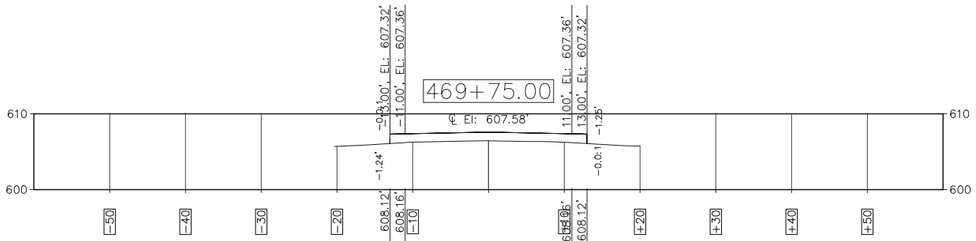
Total Volume at Station 468+00.00	
Cut Area (SF)	0.00
Fill Area (SF)	20.10
Cut Volume (CY)	0
Fill Volume (CY)	19

Total Volume at Station 467+75.00	
Cut Area (SF)	0.00
Fill Area (SF)	20.94
Cut Volume (CY)	0
Fill Volume (CY)	20

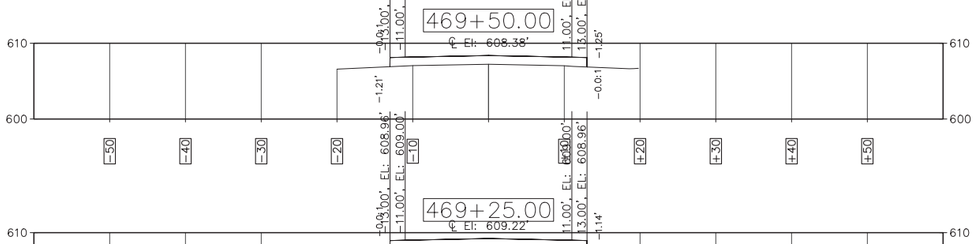
Total Volume at Station 467+50.00	
Cut Area (SF)	0.00
Fill Area (SF)	22.65
Cut Volume (CY)	0
Fill Volume (CY)	21

Total Volume at Station 467+25.00	
Cut Area (SF)	0.00
Fill Area (SF)	23.15
Cut Volume (CY)	0
Fill Volume (CY)	22

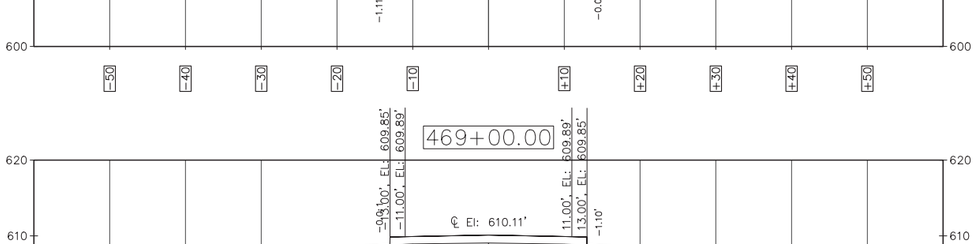
Total Volume at Station 467+00.00	
Cut Area (SF)	0.00
Fill Area (SF)	24.37
Cut Volume (CY)	0
Fill Volume (CY)	22



Total Volume at Station 469+75.00	
Cut Area (SF)	0.00
Fill Area (SF)	29.65
Cut Volume (CY)	0
Fill Volume (CY)	28

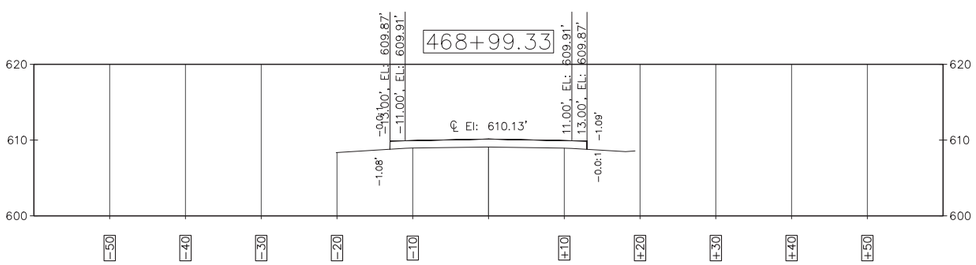


Total Volume at Station 469+50.00	
Cut Area (SF)	0.00
Fill Area (SF)	30.05
Cut Volume (CY)	0
Fill Volume (CY)	27

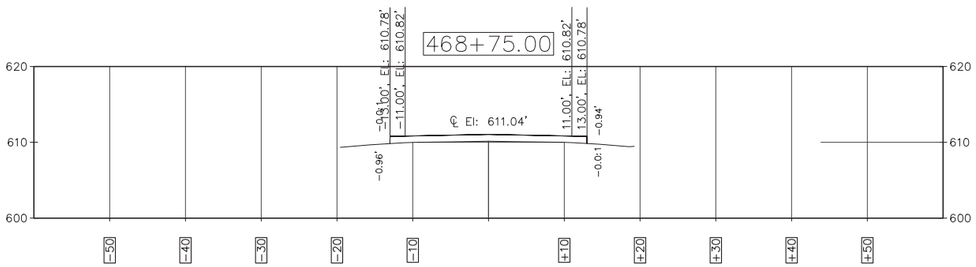


Total Volume at Station 469+25.00	
Cut Area (SF)	0.00
Fill Area (SF)	27.64
Cut Volume (CY)	0
Fill Volume (CY)	25

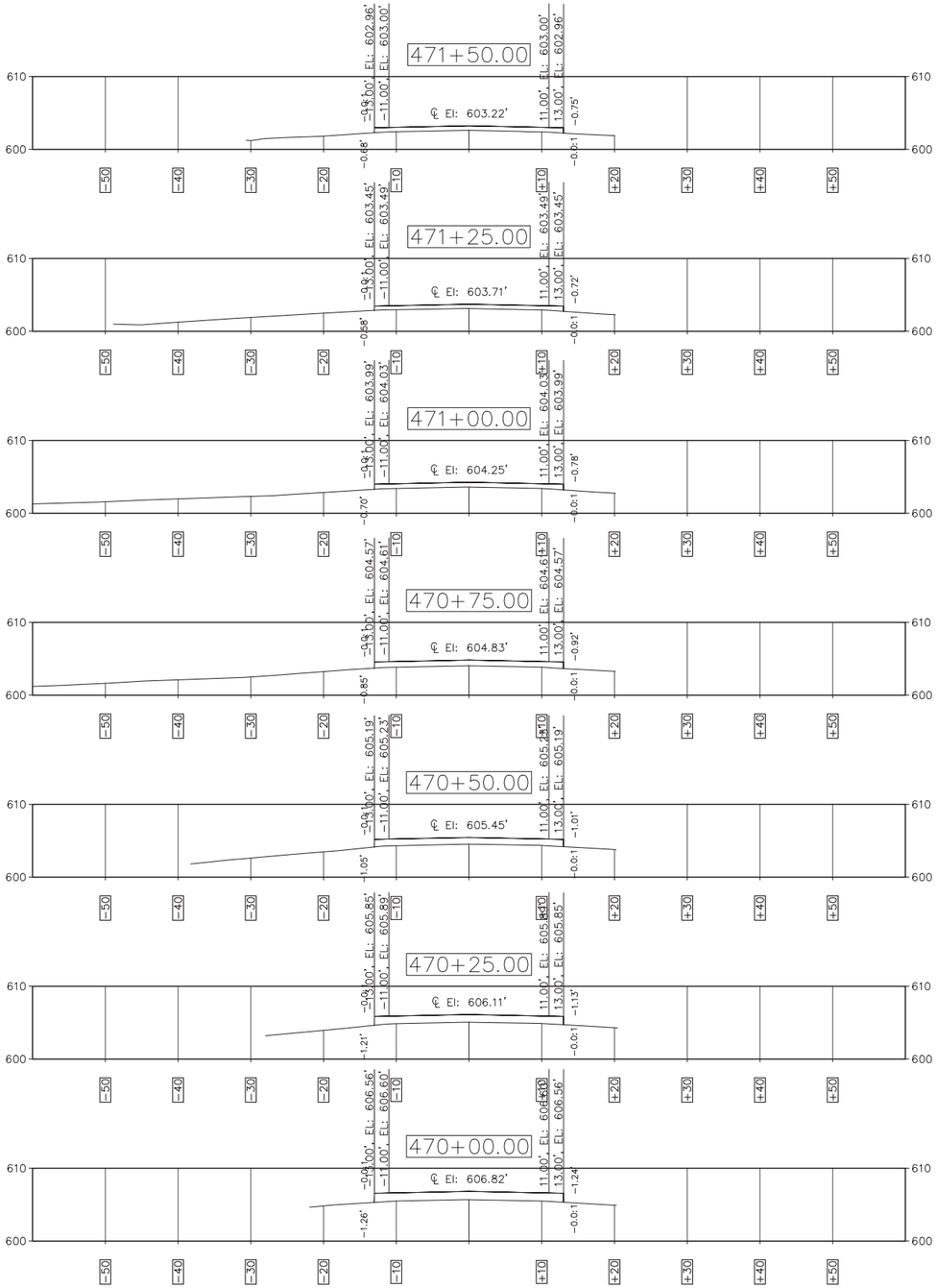
Total Volume at Station 469+00.00	
Cut Area (SF)	0.00
Fill Area (SF)	26.56
Cut Volume (CY)	0
Fill Volume (CY)	1



Total Volume at Station 468+99.33	
Cut Area (SF)	0.00
Fill Area (SF)	26.50
Cut Volume (CY)	0
Fill Volume (CY)	22



Total Volume at Station 468+75.00	
Cut Area (SF)	0.00
Fill Area (SF)	22.86
Cut Volume (CY)	0
Fill Volume (CY)	20



Total Volume at Station 471+50.00	
Cut Area (SF)	0.00
Fill Area (SF)	16.27
Cut Volume (CY)	0
Fill Volume (CY)	15

Total Volume at Station 471+25.00	
Cut Area (SF)	0.00
Fill Area (SF)	15.22
Cut Volume (CY)	0
Fill Volume (CY)	15

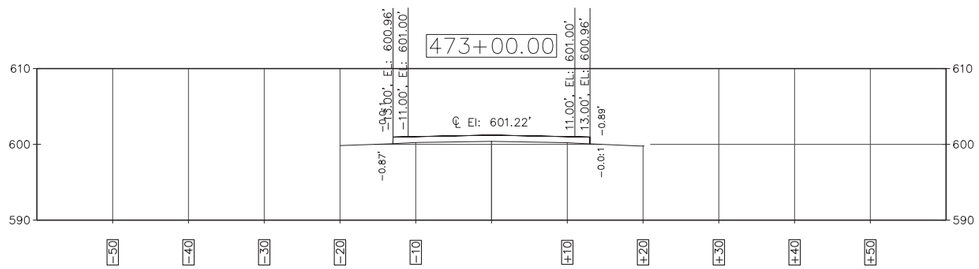
Total Volume at Station 471+00.00	
Cut Area (SF)	0.00
Fill Area (SF)	17.05
Cut Volume (CY)	0
Fill Volume (CY)	17

Total Volume at Station 470+75.00	
Cut Area (SF)	0.00
Fill Area (SF)	20.62
Cut Volume (CY)	0
Fill Volume (CY)	21

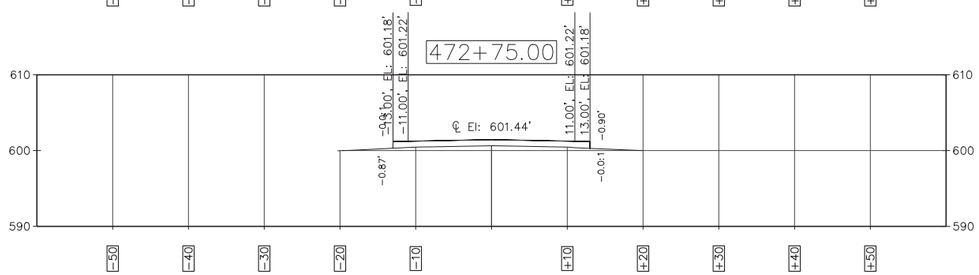
Total Volume at Station 470+50.00	
Cut Area (SF)	0.00
Fill Area (SF)	24.05
Cut Volume (CY)	0
Fill Volume (CY)	24

Total Volume at Station 470+25.00	
Cut Area (SF)	0.00
Fill Area (SF)	27.33
Cut Volume (CY)	0
Fill Volume (CY)	26

Total Volume at Station 470+00.00	
Cut Area (SF)	0.00
Fill Area (SF)	29.85
Cut Volume (CY)	0
Fill Volume (CY)	28



Total Volume at Station 473+00.00	
Cut Area (SF)	0.00
Fill Area (SF)	21.18
Cut Volume (CY)	0
Fill Volume (CY)	20

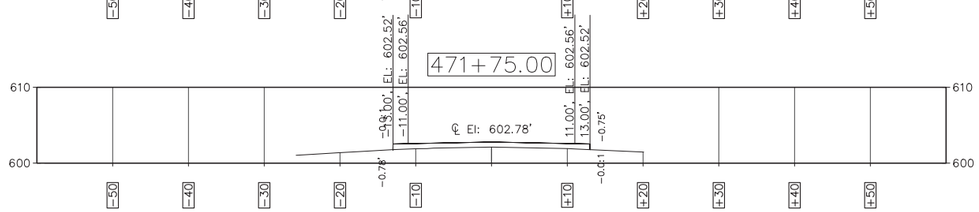


Total Volume at Station 472+75.00	
Cut Area (SF)	0.00
Fill Area (SF)	21.01
Cut Volume (CY)	0
Fill Volume (CY)	19

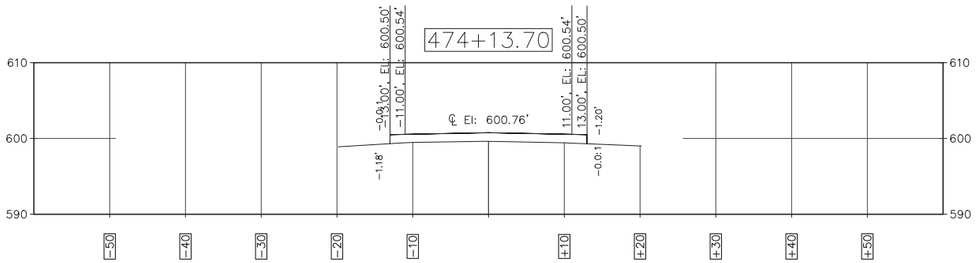
Total Volume at Station 472+50.00	
Cut Area (SF)	0.00
Fill Area (SF)	20.39
Cut Volume (CY)	0
Fill Volume (CY)	19

Total Volume at Station 472+25.00	
Cut Area (SF)	0.00
Fill Area (SF)	19.92
Cut Volume (CY)	0
Fill Volume (CY)	18

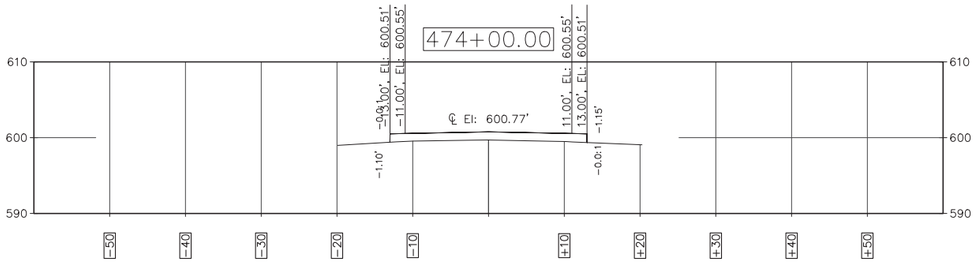
Total Volume at Station 472+00.00	
Cut Area (SF)	0.00
Fill Area (SF)	18.95
Cut Volume (CY)	0
Fill Volume (CY)	17



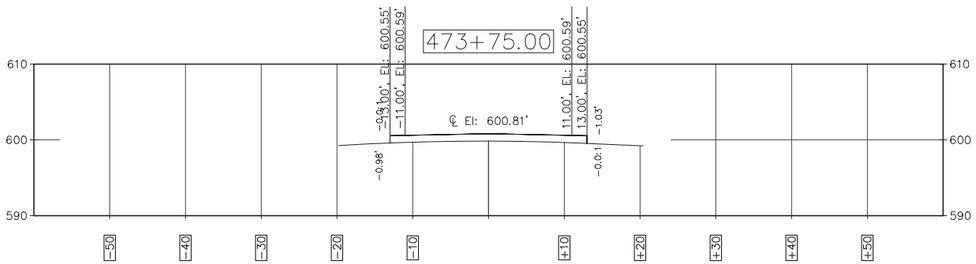
Total Volume at Station 471+75.00	
Cut Area (SF)	0.00
Fill Area (SF)	17.63
Cut Volume (CY)	0
Fill Volume (CY)	16



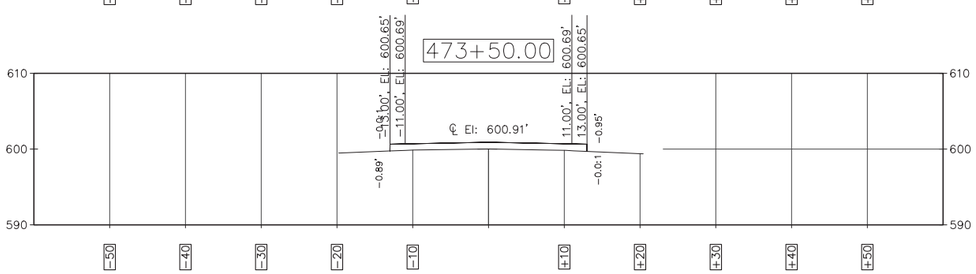
Total Volume at Station 474+13.70	
Cut Area (SF)	0.00
Fill Area (SF)	29.33
Cut Volume (CY)	0
Fill Volume (CY)	14



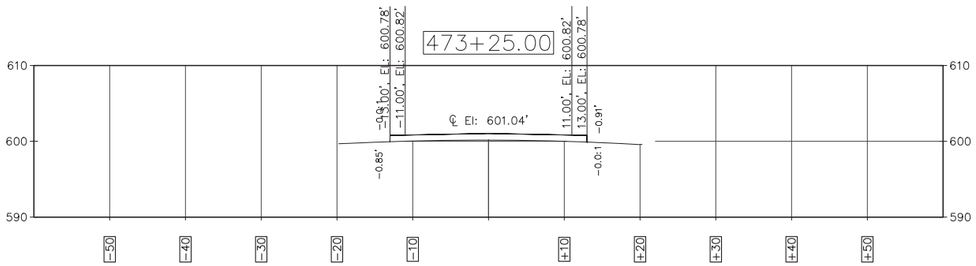
Total Volume at Station 474+00.00	
Cut Area (SF)	0.00
Fill Area (SF)	27.74
Cut Volume (CY)	0
Fill Volume (CY)	24



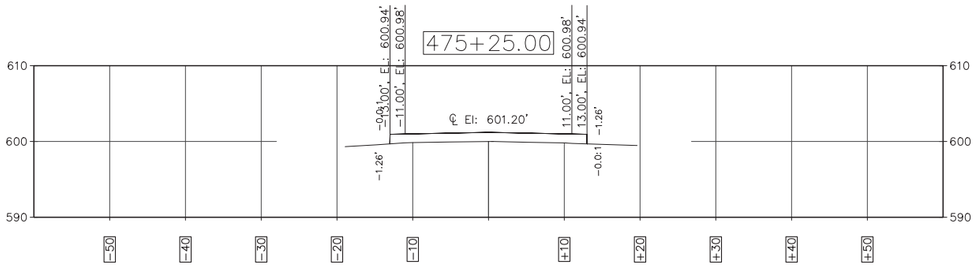
Total Volume at Station 473+75.00	
Cut Area (SF)	0.00
Fill Area (SF)	24.68
Cut Volume (CY)	0
Fill Volume (CY)	22



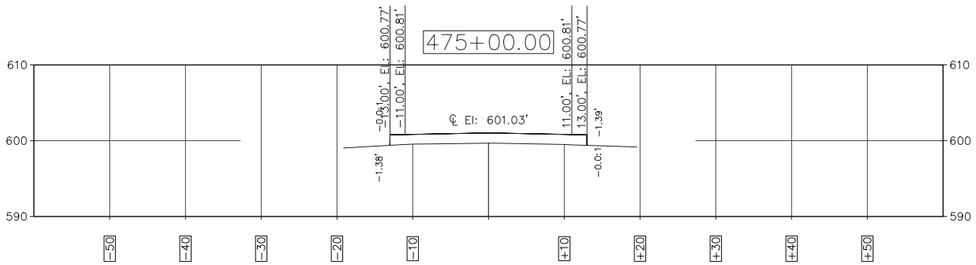
Total Volume at Station 473+50.00	
Cut Area (SF)	0.00
Fill Area (SF)	22.69
Cut Volume (CY)	0
Fill Volume (CY)	21



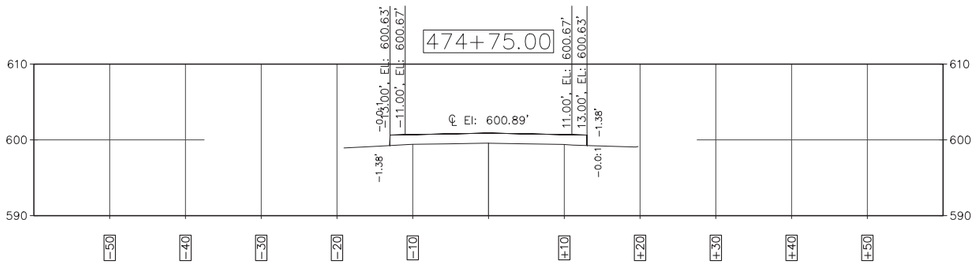
Total Volume at Station 473+25.00	
Cut Area (SF)	0.00
Fill Area (SF)	21.74
Cut Volume (CY)	0
Fill Volume (CY)	20



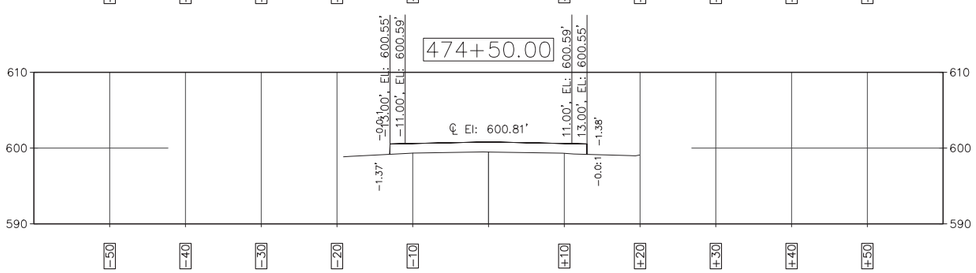
Total Volume at Station 475+25.00	
Cut Area (SF)	0.00
Fill Area (SF)	31.00
Cut Volume (CY)	0
Fill Volume (CY)	30



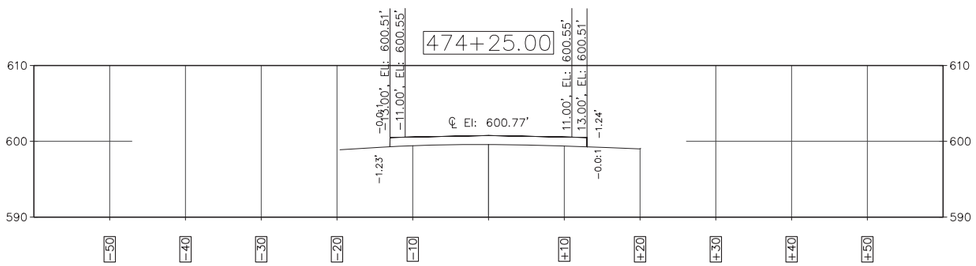
Total Volume at Station 475+00.00	
Cut Area (SF)	0.00
Fill Area (SF)	34.60
Cut Volume (CY)	0
Fill Volume (CY)	32



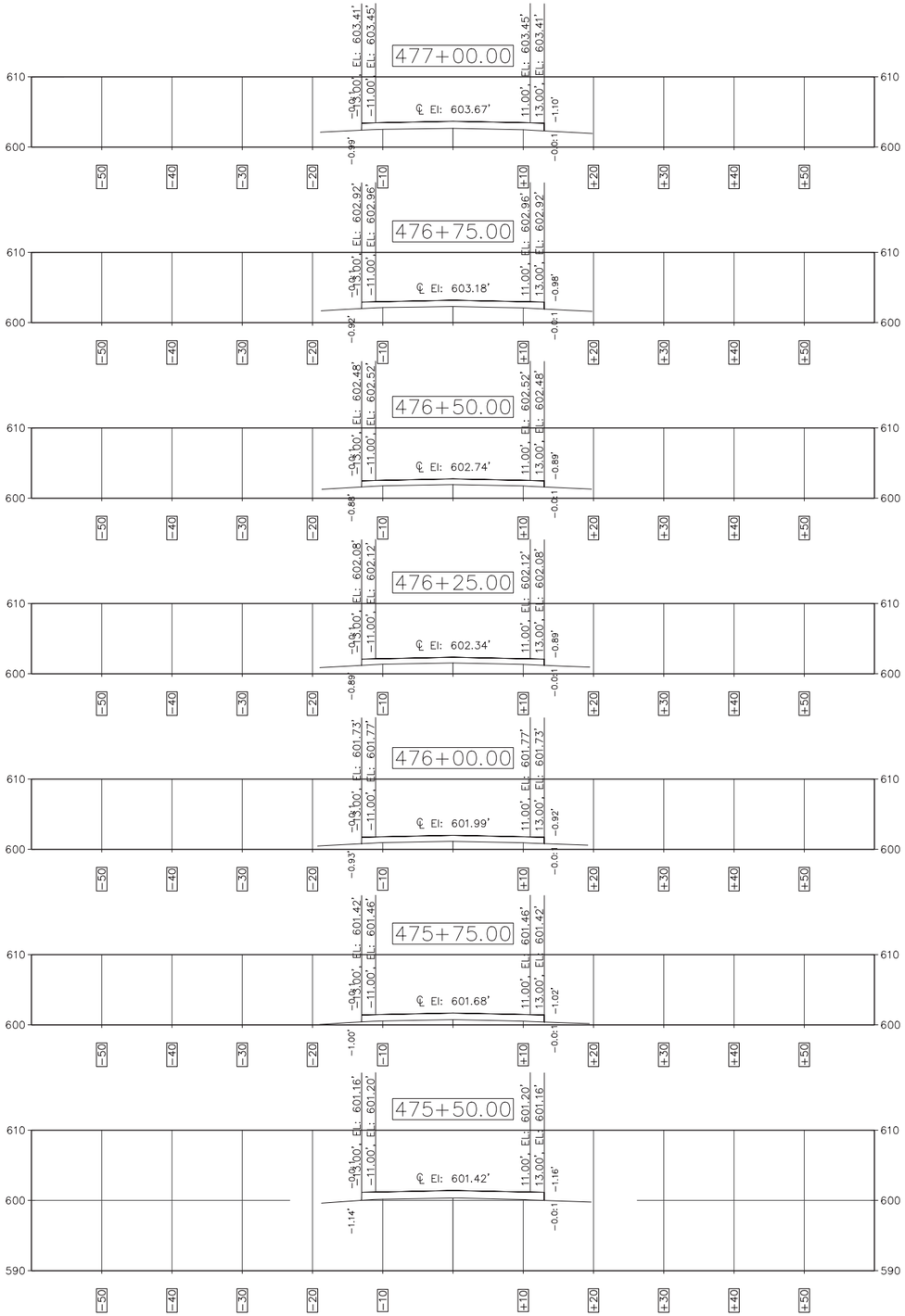
Total Volume at Station 474+75.00	
Cut Area (SF)	0.00
Fill Area (SF)	34.28
Cut Volume (CY)	0
Fill Volume (CY)	32



Total Volume at Station 474+50.00	
Cut Area (SF)	0.00
Fill Area (SF)	33.91
Cut Volume (CY)	0
Fill Volume (CY)	30



Total Volume at Station 474+25.00	
Cut Area (SF)	0.00
Fill Area (SF)	30.46
Cut Volume (CY)	0
Fill Volume (CY)	13



Total Volume at Station 477+00.00	
Cut Area (SF)	0.00
Fill Area (SF)	25.64
Cut Volume (CY)	0
Fill Volume (CY)	22

Total Volume at Station 476+75.00	
Cut Area (SF)	0.00
Fill Area (SF)	22.78
Cut Volume (CY)	0
Fill Volume (CY)	20

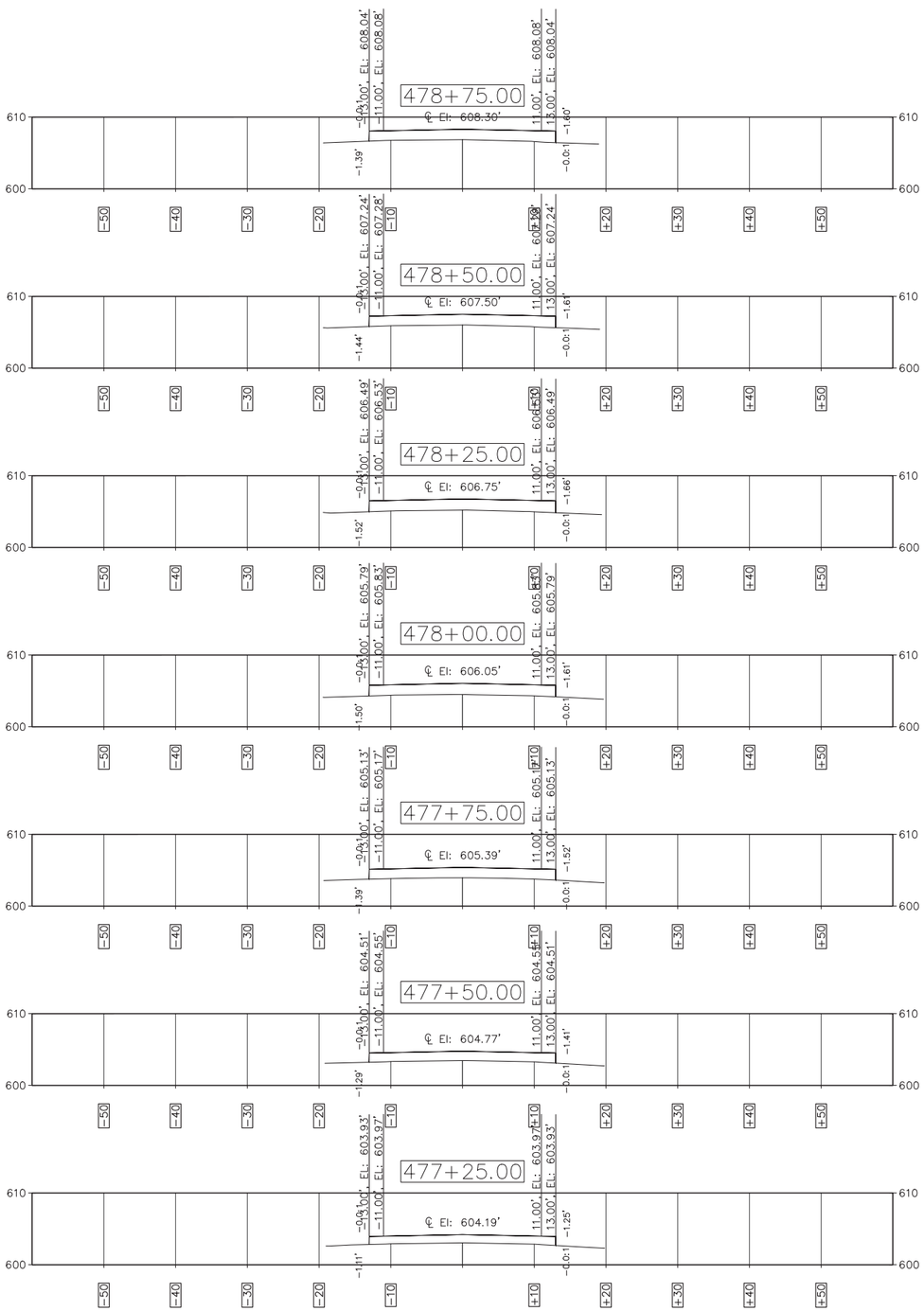
Total Volume at Station 476+50.00	
Cut Area (SF)	0.00
Fill Area (SF)	20.83
Cut Volume (CY)	0
Fill Volume (CY)	19

Total Volume at Station 476+25.00	
Cut Area (SF)	0.00
Fill Area (SF)	21.01
Cut Volume (CY)	0
Fill Volume (CY)	20

Total Volume at Station 476+00.00	
Cut Area (SF)	0.00
Fill Area (SF)	22.40
Cut Volume (CY)	0
Fill Volume (CY)	22

Total Volume at Station 475+75.00	
Cut Area (SF)	0.00
Fill Area (SF)	24.64
Cut Volume (CY)	0
Fill Volume (CY)	24

Total Volume at Station 475+50.00	
Cut Area (SF)	0.00
Fill Area (SF)	28.11
Cut Volume (CY)	0
Fill Volume (CY)	27



Total Volume at Station 478+75.00	
Cut Area (SF)	0.00
Fill Area (SF)	37.43
Cut Volume (CY)	0
Fill Volume (CY)	35

Total Volume at Station 478+50.00	
Cut Area (SF)	0.00
Fill Area (SF)	38.52
Cut Volume (CY)	0
Fill Volume (CY)	36

Total Volume at Station 478+25.00	
Cut Area (SF)	0.00
Fill Area (SF)	40.05
Cut Volume (CY)	0
Fill Volume (CY)	37

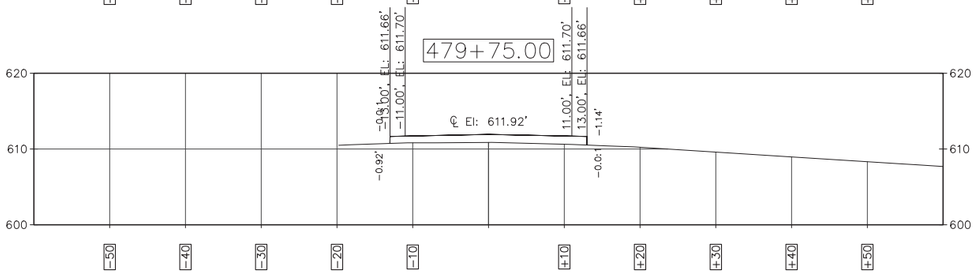
Total Volume at Station 478+00.00	
Cut Area (SF)	0.00
Fill Area (SF)	39.44
Cut Volume (CY)	0
Fill Volume (CY)	35

Total Volume at Station 477+75.00	
Cut Area (SF)	0.00
Fill Area (SF)	36.61
Cut Volume (CY)	0
Fill Volume (CY)	33

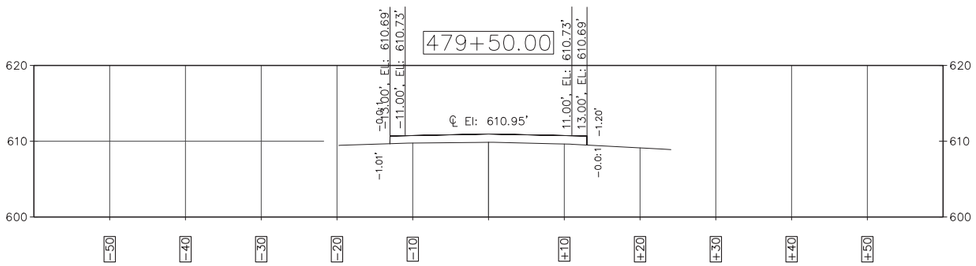
Total Volume at Station 477+50.00	
Cut Area (SF)	0.00
Fill Area (SF)	33.64
Cut Volume (CY)	0
Fill Volume (CY)	29

Total Volume at Station 477+25.00	
Cut Area (SF)	0.00
Fill Area (SF)	29.44
Cut Volume (CY)	0
Fill Volume (CY)	26

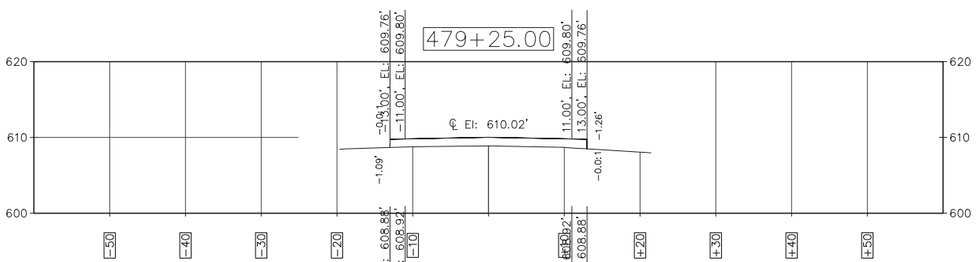
Total Volume at Station 480+00.00	
Cut Area (SF)	0.00
Fill Area (SF)	23.26
Cut Volume (CY)	0
Fill Volume (CY)	23



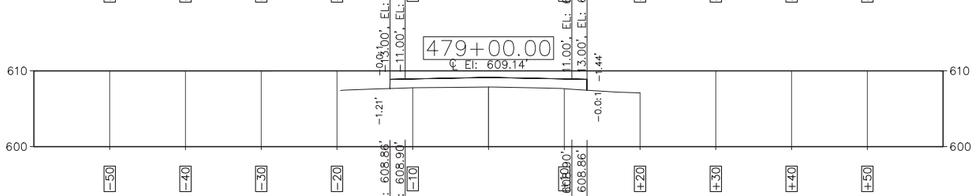
Total Volume at Station 479+75.00	
Cut Area (SF)	0.00
Fill Area (SF)	26.58
Cut Volume (CY)	0
Fill Volume (CY)	25



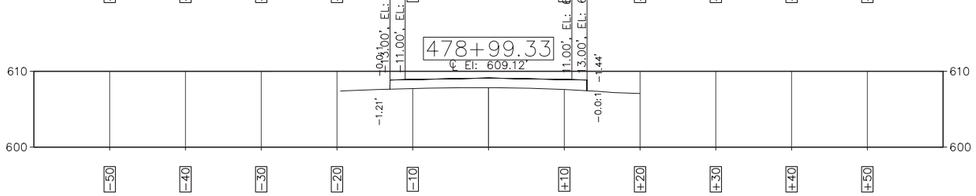
Total Volume at Station 479+50.00	
Cut Area (SF)	0.00
Fill Area (SF)	27.88
Cut Volume (CY)	0
Fill Volume (CY)	26



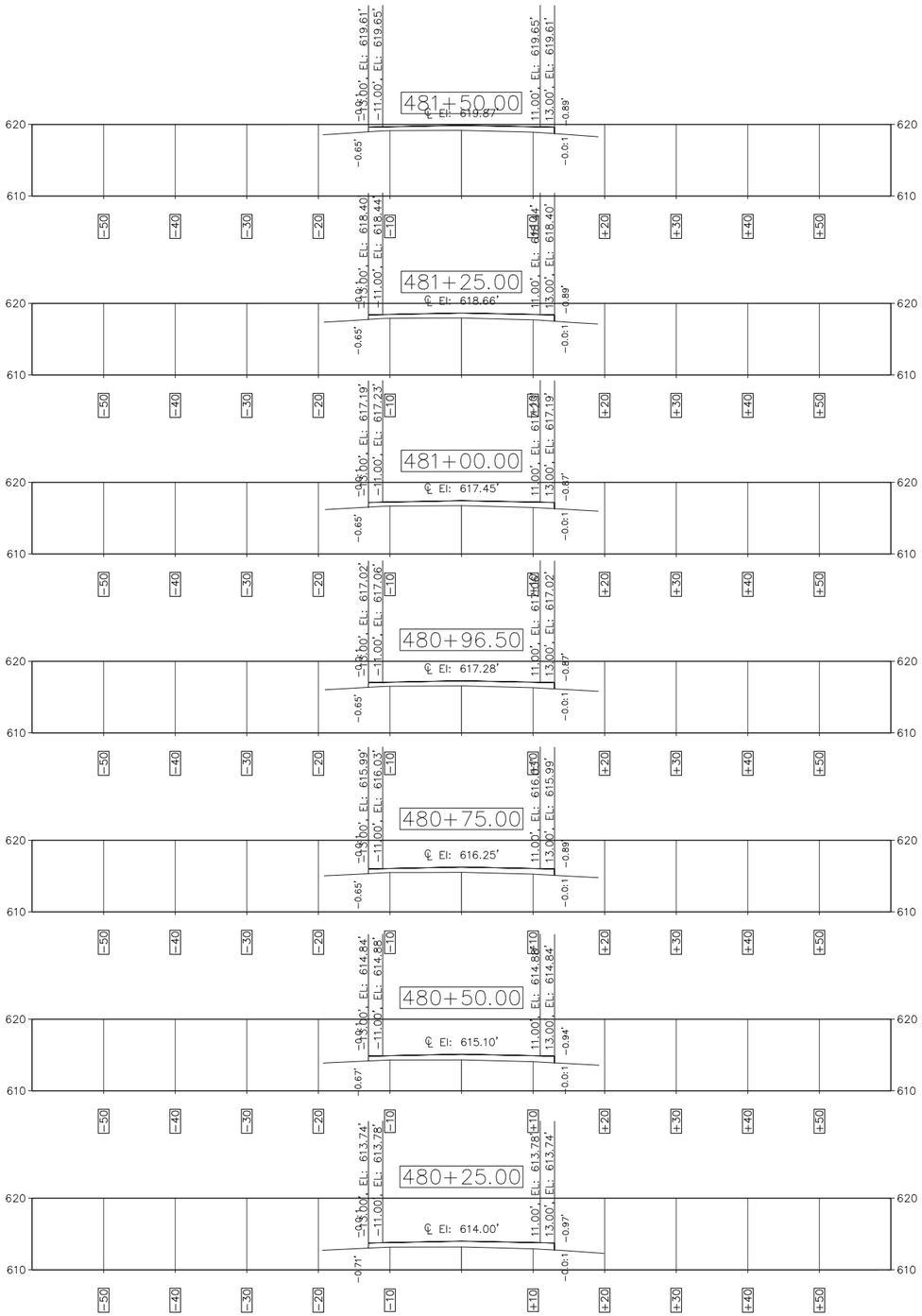
Total Volume at Station 479+25.00	
Cut Area (SF)	0.00
Fill Area (SF)	29.12
Cut Volume (CY)	0
Fill Volume (CY)	29



Total Volume at Station 479+00.00	
Cut Area (SF)	0.00
Fill Area (SF)	32.48
Cut Volume (CY)	0
Fill Volume (CY)	1



Total Volume at Station 478+99.33	
Cut Area (SF)	0.00
Fill Area (SF)	32.60
Cut Volume (CY)	0
Fill Volume (CY)	32



Total Volume at Station 481+50.00	
Cut Area (SF)	0.00
Fill Area (SF)	17.74
Cut Volume (CY)	0
Fill Volume (CY)	16

Total Volume at Station 481+25.00	
Cut Area (SF)	0.00
Fill Area (SF)	17.69
Cut Volume (CY)	0
Fill Volume (CY)	17

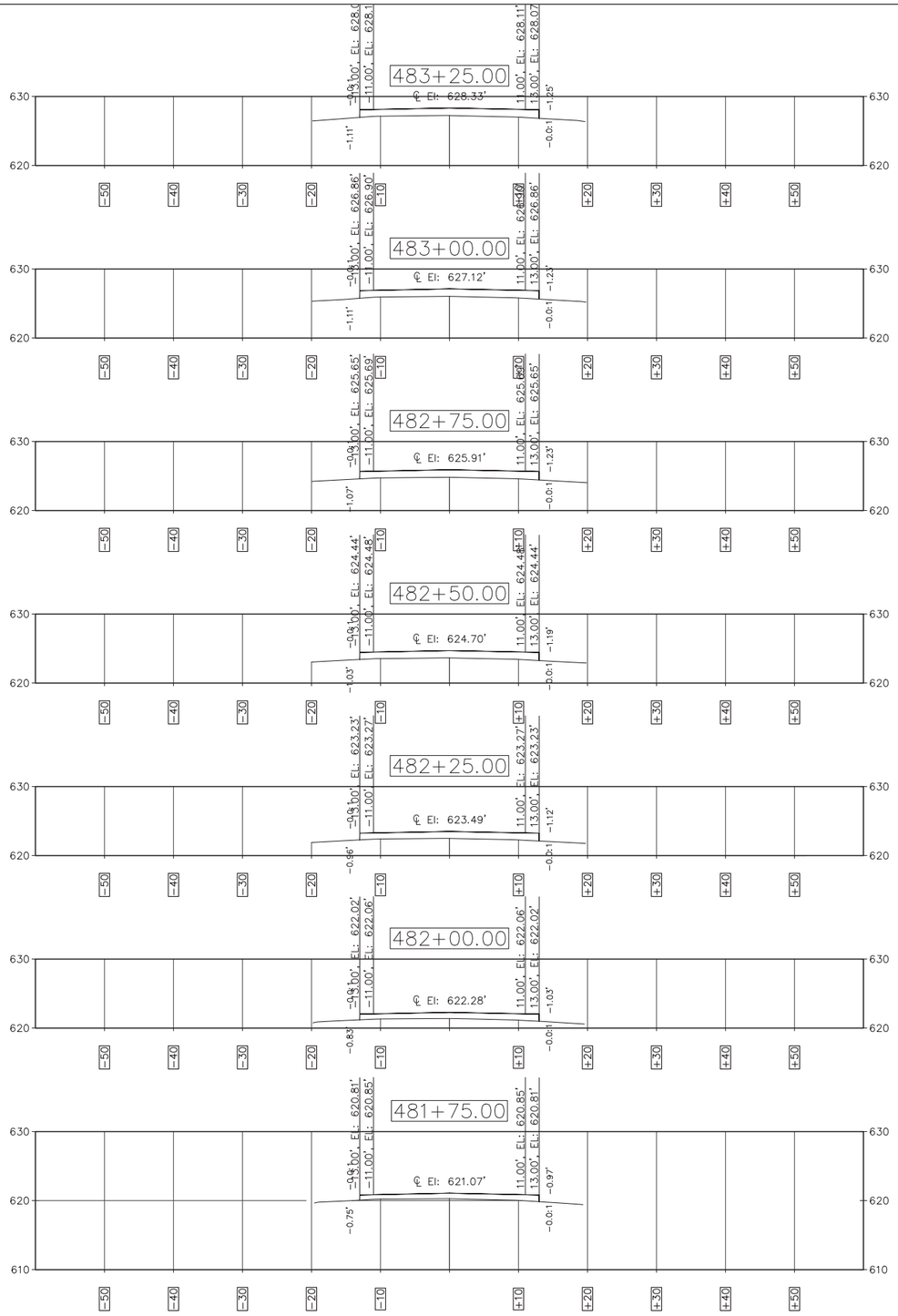
Total Volume at Station 481+00.00	
Cut Area (SF)	0.00
Fill Area (SF)	17.96
Cut Volume (CY)	0
Fill Volume (CY)	2

Total Volume at Station 480+96.50	
Cut Area (SF)	0.00
Fill Area (SF)	17.97
Cut Volume (CY)	0
Fill Volume (CY)	14

Total Volume at Station 480+75.00	
Cut Area (SF)	0.00
Fill Area (SF)	18.41
Cut Volume (CY)	0
Fill Volume (CY)	18

Total Volume at Station 480+50.00	
Cut Area (SF)	0.00
Fill Area (SF)	19.58
Cut Volume (CY)	0
Fill Volume (CY)	19

Total Volume at Station 480+25.00	
Cut Area (SF)	0.00
Fill Area (SF)	20.48
Cut Volume (CY)	0
Fill Volume (CY)	20



Total Volume at Station 483+25.00	
Cut Area (SF)	0.00
Fill Area (SF)	28.07
Cut Volume (CY)	0
Fill Volume (CY)	26

Total Volume at Station 483+00.00	
Cut Area (SF)	0.00
Fill Area (SF)	27.99
Cut Volume (CY)	0
Fill Volume (CY)	26

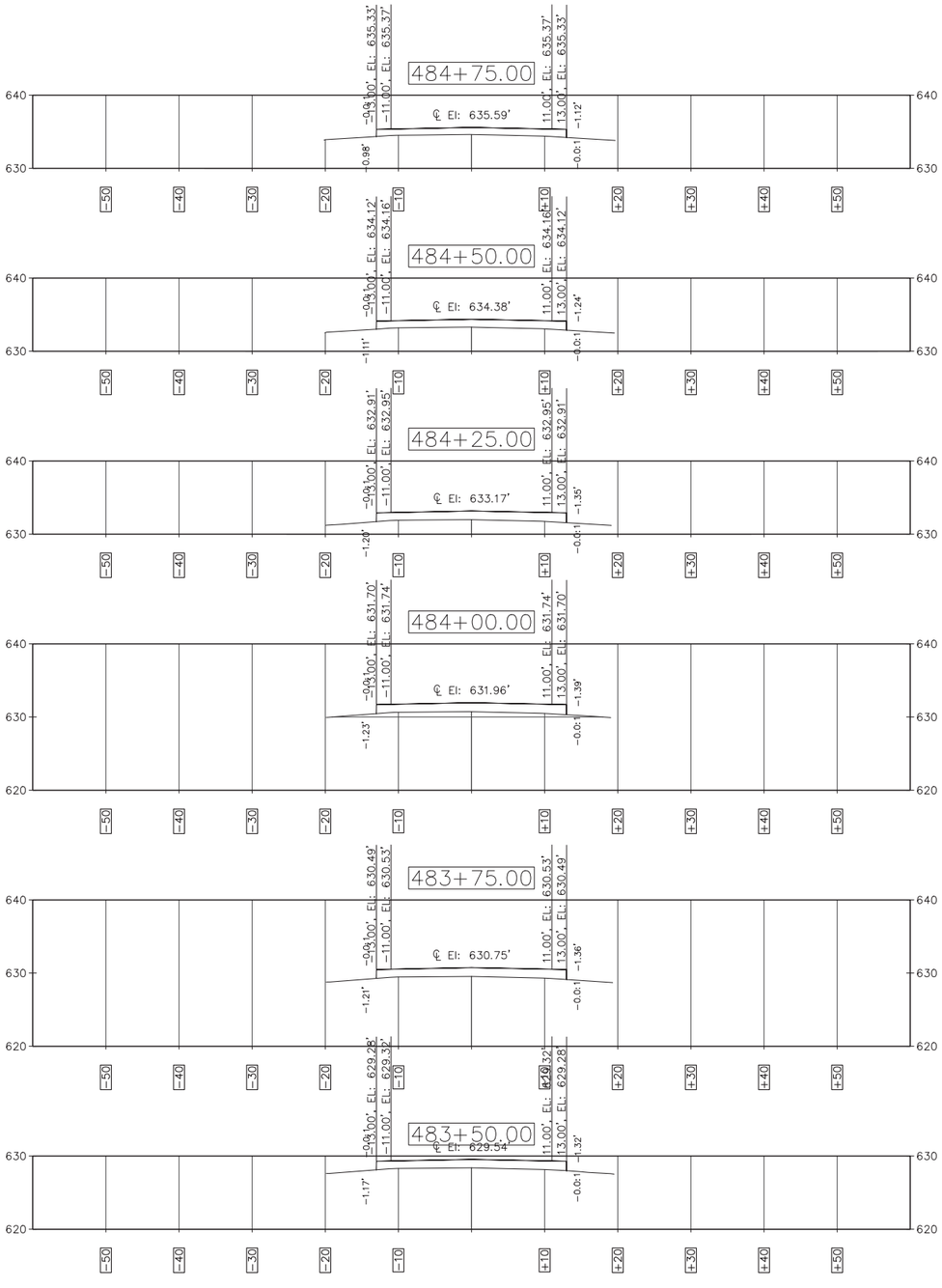
Total Volume at Station 482+75.00	
Cut Area (SF)	0.00
Fill Area (SF)	28.01
Cut Volume (CY)	0
Fill Volume (CY)	26

Total Volume at Station 482+50.00	
Cut Area (SF)	0.00
Fill Area (SF)	27.12
Cut Volume (CY)	0
Fill Volume (CY)	24

Total Volume at Station 482+25.00	
Cut Area (SF)	0.00
Fill Area (SF)	25.50
Cut Volume (CY)	0
Fill Volume (CY)	22

Total Volume at Station 482+00.00	
Cut Area (SF)	0.00
Fill Area (SF)	22.66
Cut Volume (CY)	0
Fill Volume (CY)	20

Total Volume at Station 481+75.00	
Cut Area (SF)	0.00
Fill Area (SF)	20.17
Cut Volume (CY)	0
Fill Volume (CY)	18



Total Volume at Station 484+75.00	
Cut Area (SF)	0.00
Fill Area (SF)	24.83
Cut Volume (CY)	0
Fill Volume (CY)	24

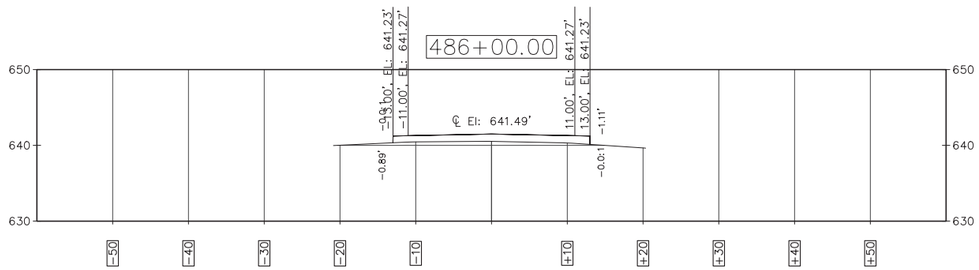
Total Volume at Station 484+50.00	
Cut Area (SF)	0.00
Fill Area (SF)	27.92
Cut Volume (CY)	0
Fill Volume (CY)	27

Total Volume at Station 484+25.00	
Cut Area (SF)	0.00
Fill Area (SF)	30.60
Cut Volume (CY)	0
Fill Volume (CY)	29

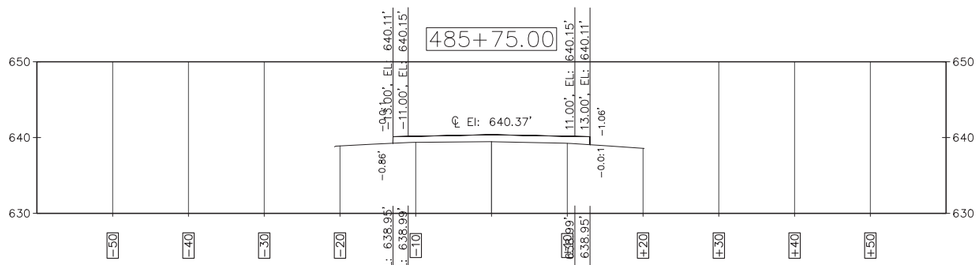
Total Volume at Station 484+00.00	
Cut Area (SF)	0.00
Fill Area (SF)	31.56
Cut Volume (CY)	0
Fill Volume (CY)	29

Total Volume at Station 483+75.00	
Cut Area (SF)	0.00
Fill Area (SF)	30.95
Cut Volume (CY)	0
Fill Volume (CY)	28

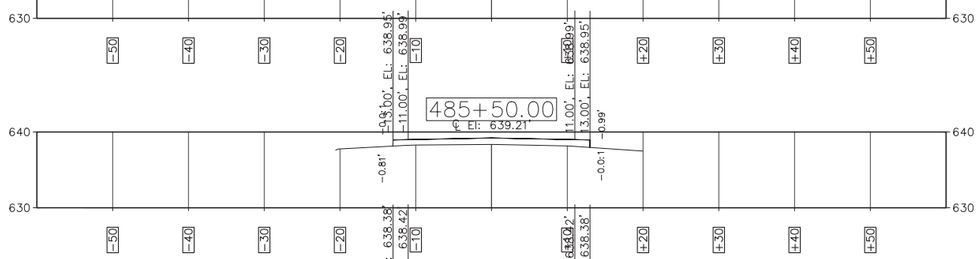
Total Volume at Station 483+50.00	
Cut Area (SF)	0.00
Fill Area (SF)	29.71
Cut Volume (CY)	0
Fill Volume (CY)	27



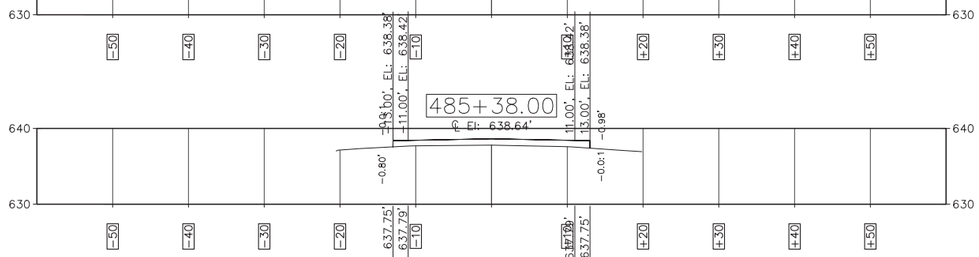
Total Volume at Station 486+00.00	
Cut Area (SF)	0.00
Fill Area (SF)	24.38
Cut Volume (CY)	0
Fill Volume (CY)	22



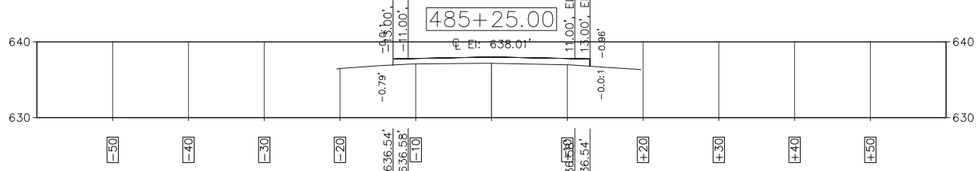
Total Volume at Station 485+75.00	
Cut Area (SF)	0.00
Fill Area (SF)	23.28
Cut Volume (CY)	0
Fill Volume (CY)	21



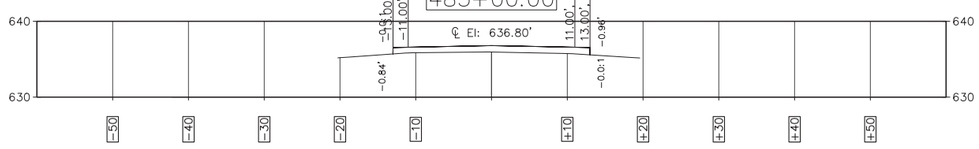
Total Volume at Station 485+50.00	
Cut Area (SF)	0.00
Fill Area (SF)	21.45
Cut Volume (CY)	0
Fill Volume (CY)	10



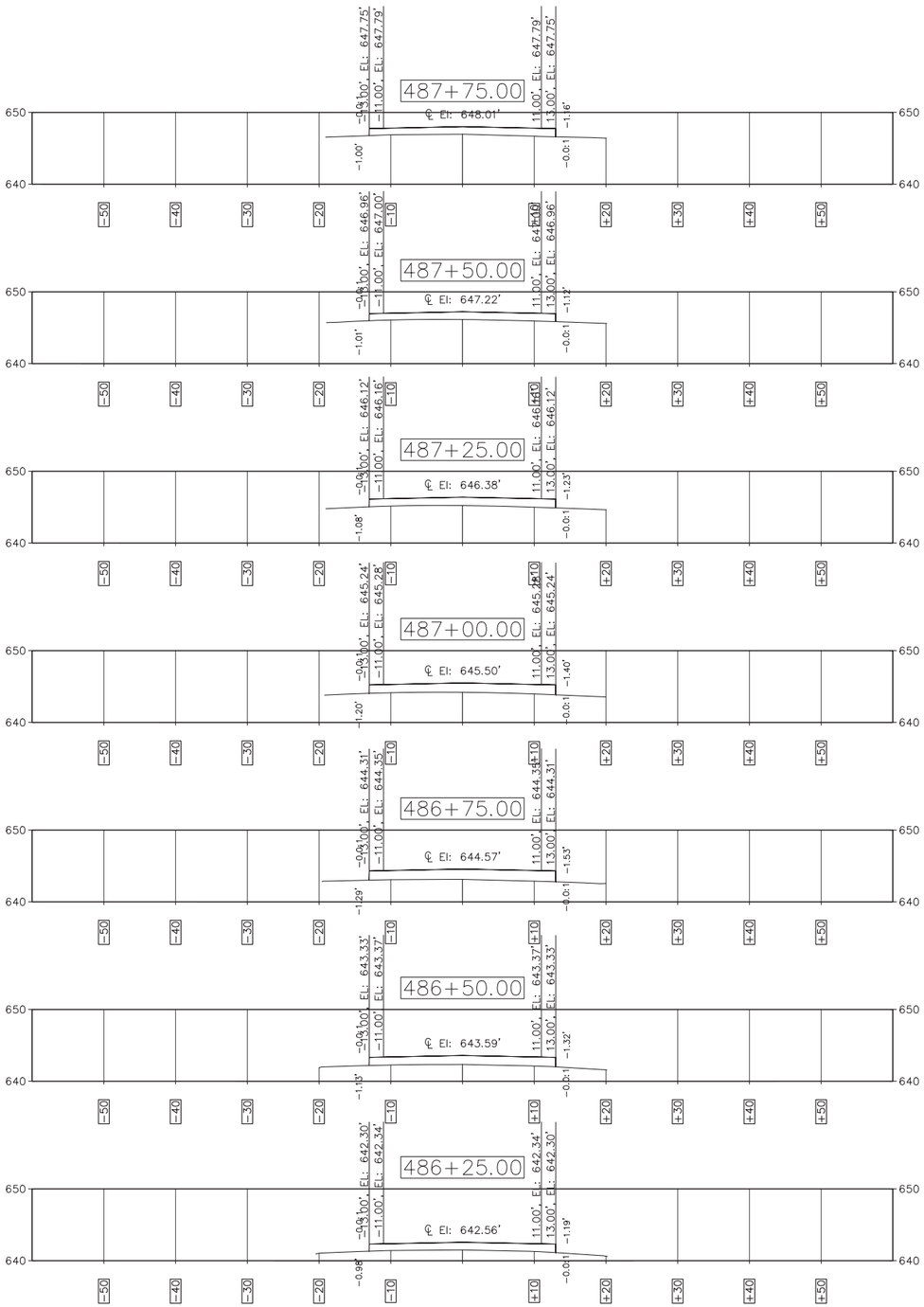
Total Volume at Station 485+38.00	
Cut Area (SF)	0.00
Fill Area (SF)	21.30
Cut Volume (CY)	0
Fill Volume (CY)	10



Total Volume at Station 485+25.00	
Cut Area (SF)	0.00
Fill Area (SF)	20.98
Cut Volume (CY)	0
Fill Volume (CY)	20



Total Volume at Station 485+00.00	
Cut Area (SF)	0.00
Fill Area (SF)	21.51
Cut Volume (CY)	0
Fill Volume (CY)	21



Total Volume at Station 487+75.00	
Cut Area (SF)	0.00
Fill Area (SF)	27.14
Cut Volume (CY)	0
Fill Volume (CY)	25

Total Volume at Station 487+50.00	
Cut Area (SF)	0.00
Fill Area (SF)	27.02
Cut Volume (CY)	0
Fill Volume (CY)	26

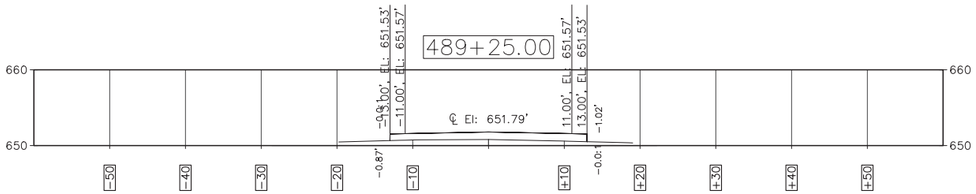
Total Volume at Station 487+25.00	
Cut Area (SF)	0.00
Fill Area (SF)	29.26
Cut Volume (CY)	0
Fill Volume (CY)	29

Total Volume at Station 487+00.00	
Cut Area (SF)	0.00
Fill Area (SF)	32.90
Cut Volume (CY)	0
Fill Volume (CY)	32

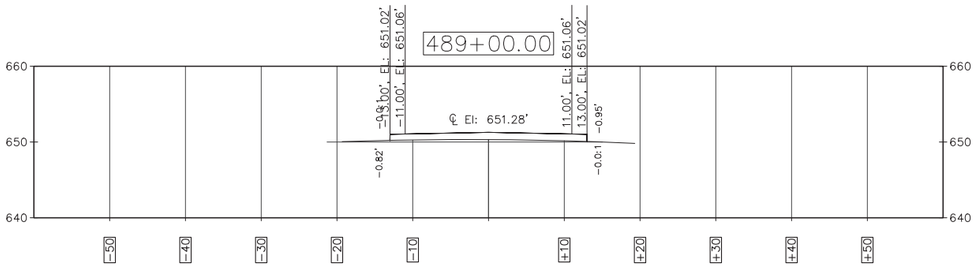
Total Volume at Station 486+75.00	
Cut Area (SF)	0.00
Fill Area (SF)	36.45
Cut Volume (CY)	0
Fill Volume (CY)	31

Total Volume at Station 486+50.00	
Cut Area (SF)	0.00
Fill Area (SF)	31.57
Cut Volume (CY)	0
Fill Volume (CY)	27

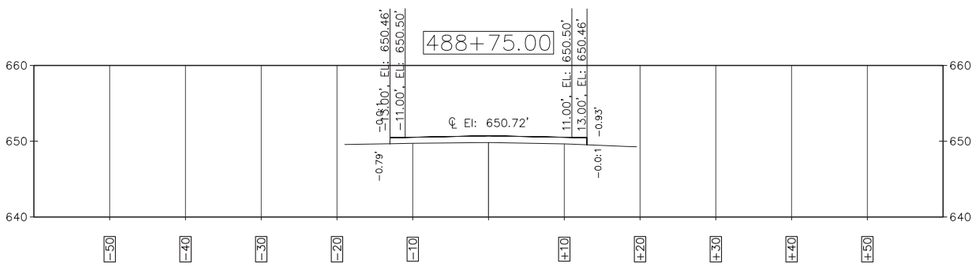
Total Volume at Station 486+25.00	
Cut Area (SF)	0.00
Fill Area (SF)	27.03
Cut Volume (CY)	0
Fill Volume (CY)	24



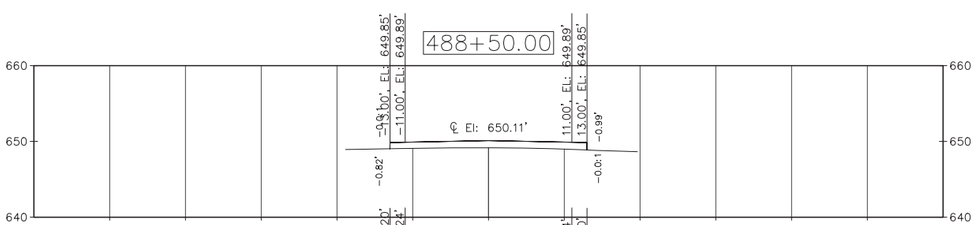
Total Volume at Station 489+25.00	
Cut Area (SF)	0.00
Fill Area (SF)	24.75
Cut Volume (CY)	0
Fill Volume (CY)	22



Total Volume at Station 489+00.00	
Cut Area (SF)	0.00
Fill Area (SF)	23.38
Cut Volume (CY)	0
Fill Volume (CY)	21

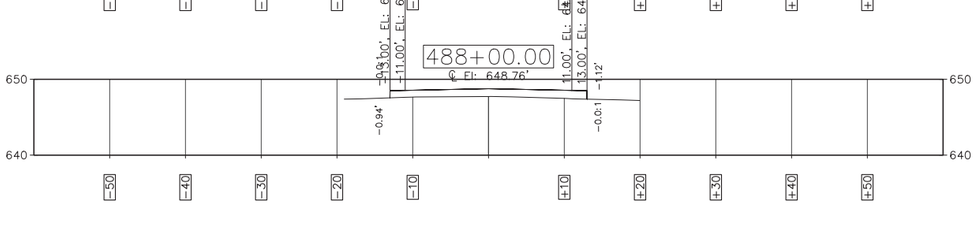


Total Volume at Station 488+75.00	
Cut Area (SF)	0.00
Fill Area (SF)	22.29
Cut Volume (CY)	0
Fill Volume (CY)	21

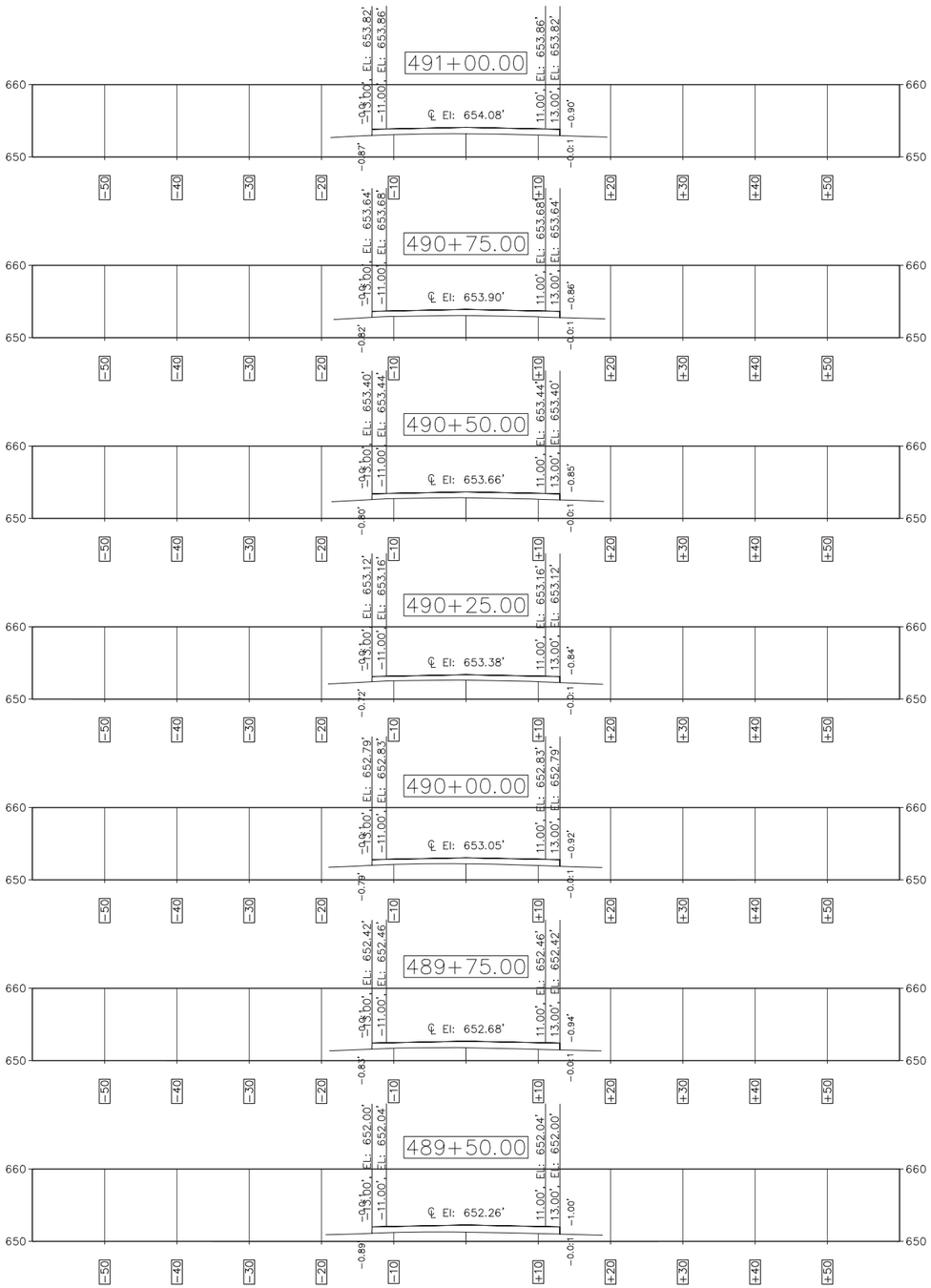


Total Volume at Station 488+50.00	
Cut Area (SF)	0.00
Fill Area (SF)	23.28
Cut Volume (CY)	0
Fill Volume (CY)	22

Total Volume at Station 488+25.00	
Cut Area (SF)	0.00
Fill Area (SF)	24.19
Cut Volume (CY)	0
Fill Volume (CY)	23



Total Volume at Station 488+00.00	
Cut Area (SF)	0.00
Fill Area (SF)	26.07
Cut Volume (CY)	0
Fill Volume (CY)	25



Total Volume at Station 491+00.00	
Cut Area (SF)	0.00
Fill Area (SF)	22.08
Cut Volume (CY)	0
Fill Volume (CY)	20

Total Volume at Station 490+75.00	
Cut Area (SF)	0.00
Fill Area (SF)	20.97
Cut Volume (CY)	0
Fill Volume (CY)	19

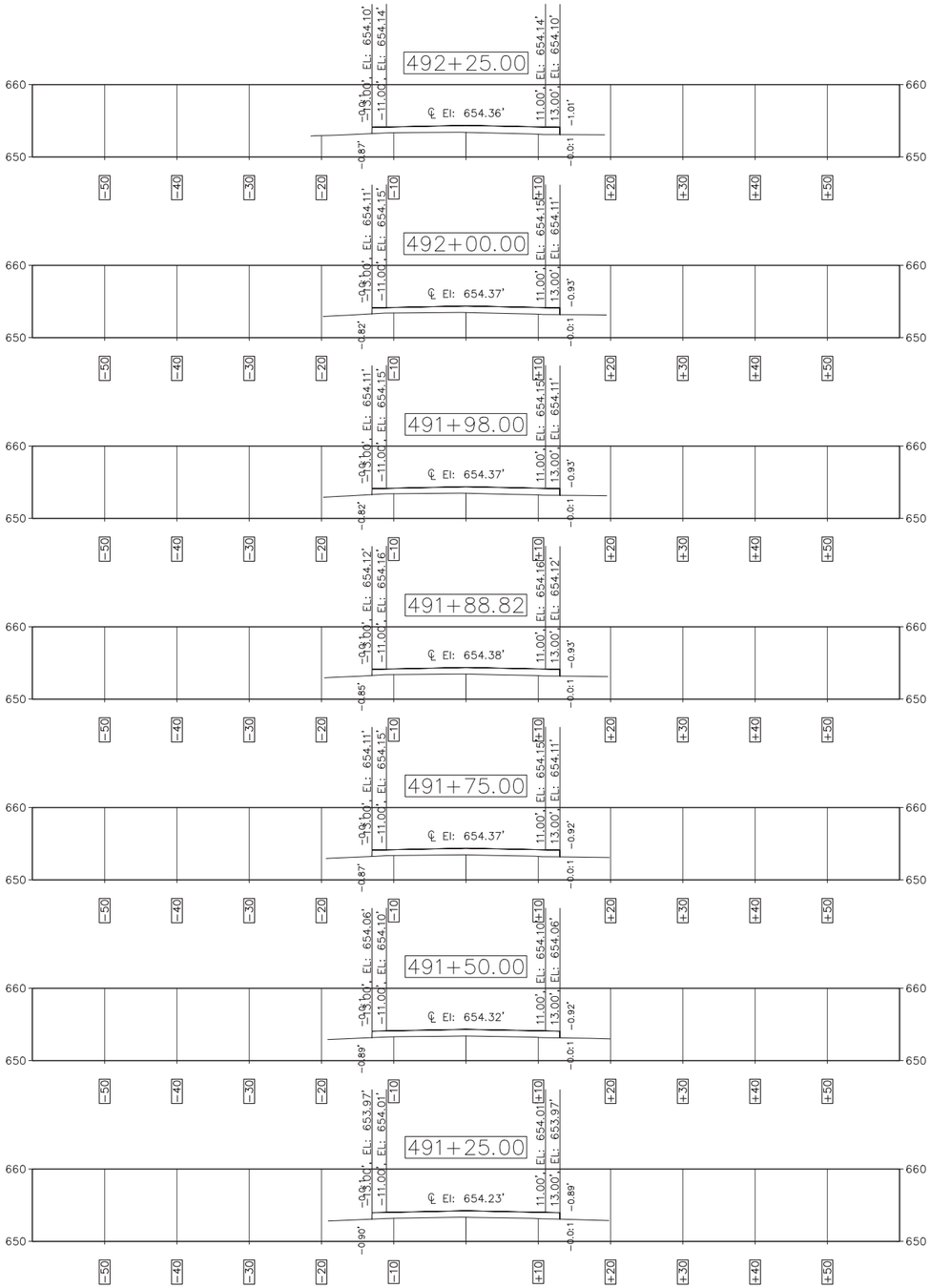
Total Volume at Station 490+50.00	
Cut Area (SF)	0.00
Fill Area (SF)	20.32
Cut Volume (CY)	0
Fill Volume (CY)	18

Total Volume at Station 490+25.00	
Cut Area (SF)	0.00
Fill Area (SF)	18.82
Cut Volume (CY)	0
Fill Volume (CY)	18

Total Volume at Station 490+00.00	
Cut Area (SF)	0.00
Fill Area (SF)	20.75
Cut Volume (CY)	0
Fill Volume (CY)	20

Total Volume at Station 489+75.00	
Cut Area (SF)	0.00
Fill Area (SF)	22.35
Cut Volume (CY)	0
Fill Volume (CY)	22

Total Volume at Station 489+50.00	
Cut Area (SF)	0.00
Fill Area (SF)	24.21
Cut Volume (CY)	0
Fill Volume (CY)	23



Total Volume at Station 492+25.00	
Cut Area (SF)	0.00
Fill Area (SF)	24.17
Cut Volume (CY)	0
Fill Volume (CY)	22

Total Volume at Station 492+00.00	
Cut Area (SF)	0.00
Fill Area (SF)	22.49
Cut Volume (CY)	0
Fill Volume (CY)	2

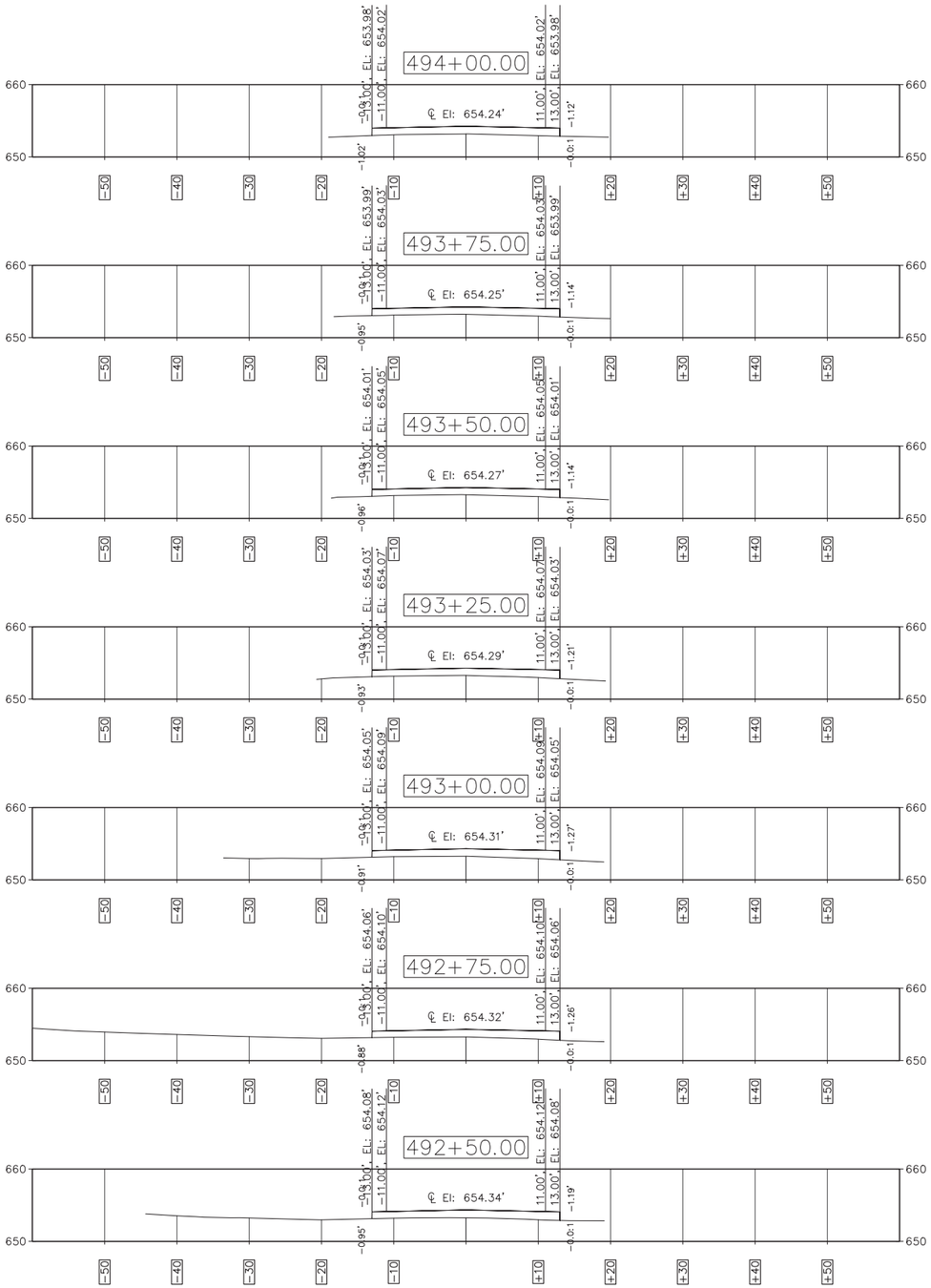
Total Volume at Station 491+98.00	
Cut Area (SF)	0.00
Fill Area (SF)	22.58
Cut Volume (CY)	0
Fill Volume (CY)	8

Total Volume at Station 491+88.82	
Cut Area (SF)	0.00
Fill Area (SF)	22.86
Cut Volume (CY)	0
Fill Volume (CY)	12

Total Volume at Station 491+75.00	
Cut Area (SF)	0.00
Fill Area (SF)	22.96
Cut Volume (CY)	0
Fill Volume (CY)	21

Total Volume at Station 491+50.00	
Cut Area (SF)	0.00
Fill Area (SF)	23.17
Cut Volume (CY)	0
Fill Volume (CY)	21

Total Volume at Station 491+25.00	
Cut Area (SF)	0.00
Fill Area (SF)	22.70
Cut Volume (CY)	0
Fill Volume (CY)	21



Total Volume at Station 494+00.00	
Cut Area (SF)	0.00
Fill Area (SF)	27.18
Cut Volume (CY)	0
Fill Volume (CY)	25

Total Volume at Station 493+75.00	
Cut Area (SF)	0.00
Fill Area (SF)	26.43
Cut Volume (CY)	0
Fill Volume (CY)	24

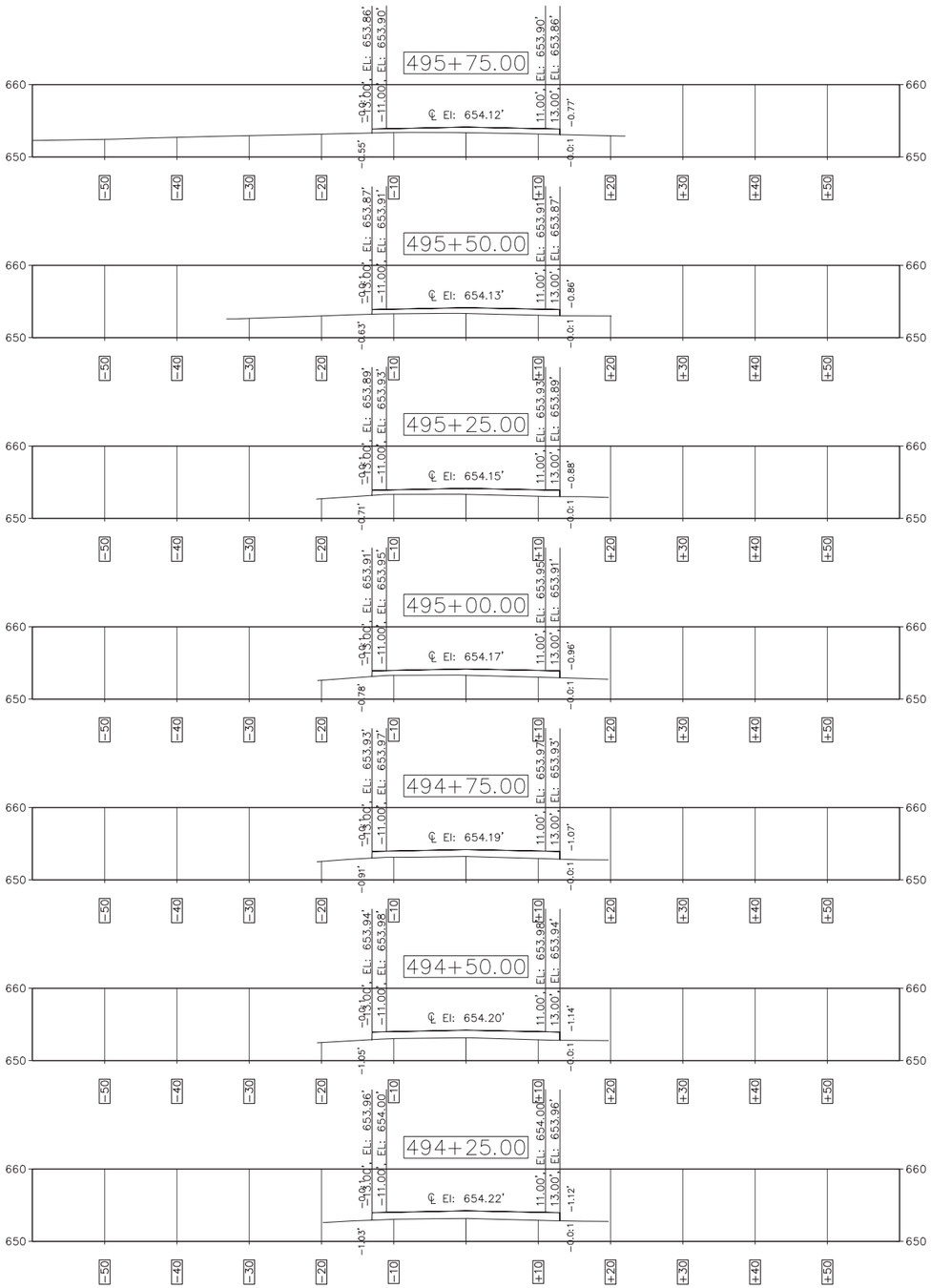
Total Volume at Station 493+50.00	
Cut Area (SF)	0.00
Fill Area (SF)	25.88
Cut Volume (CY)	0
Fill Volume (CY)	24

Total Volume at Station 493+25.00	
Cut Area (SF)	0.00
Fill Area (SF)	26.29
Cut Volume (CY)	0
Fill Volume (CY)	25

Total Volume at Station 493+00.00	
Cut Area (SF)	0.00
Fill Area (SF)	27.01
Cut Volume (CY)	0
Fill Volume (CY)	25

Total Volume at Station 492+75.00	
Cut Area (SF)	0.00
Fill Area (SF)	27.05
Cut Volume (CY)	0
Fill Volume (CY)	25

Total Volume at Station 492+50.00	
Cut Area (SF)	0.00
Fill Area (SF)	27.47
Cut Volume (CY)	0
Fill Volume (CY)	24



Total Volume at Station 495+75.00	
Cut Area (SF)	4.12
Fill Area (SF)	17.91
Cut Volume (CY)	2
Fill Volume (CY)	17

Total Volume at Station 495+50.00	
Cut Area (SF)	1.08
Fill Area (SF)	19.62
Cut Volume (CY)	0
Fill Volume (CY)	19

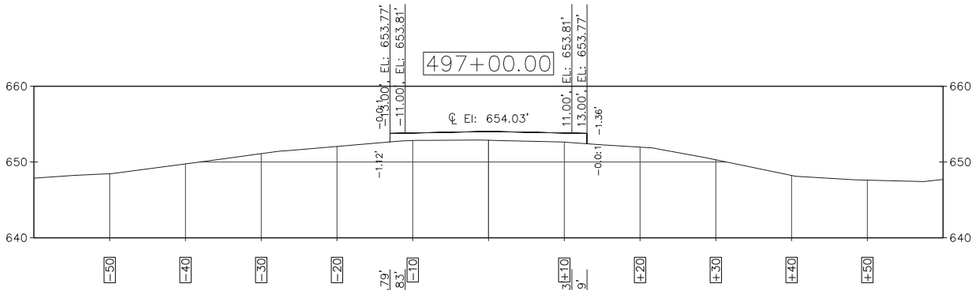
Total Volume at Station 495+25.00	
Cut Area (SF)	0.00
Fill Area (SF)	20.51
Cut Volume (CY)	0
Fill Volume (CY)	19

Total Volume at Station 495+00.00	
Cut Area (SF)	0.00
Fill Area (SF)	21.57
Cut Volume (CY)	0
Fill Volume (CY)	21

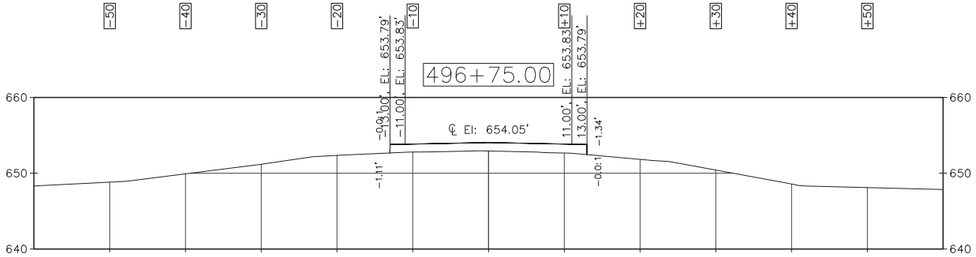
Total Volume at Station 494+75.00	
Cut Area (SF)	0.00
Fill Area (SF)	24.77
Cut Volume (CY)	0
Fill Volume (CY)	24

Total Volume at Station 494+50.00	
Cut Area (SF)	0.00
Fill Area (SF)	27.25
Cut Volume (CY)	0
Fill Volume (CY)	25

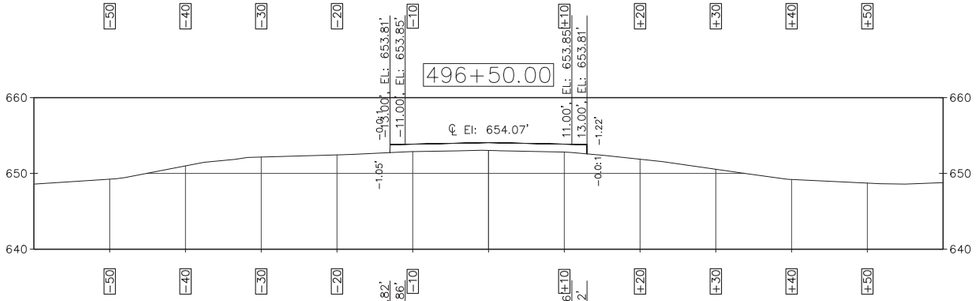
Total Volume at Station 494+25.00	
Cut Area (SF)	0.00
Fill Area (SF)	27.33
Cut Volume (CY)	0
Fill Volume (CY)	25



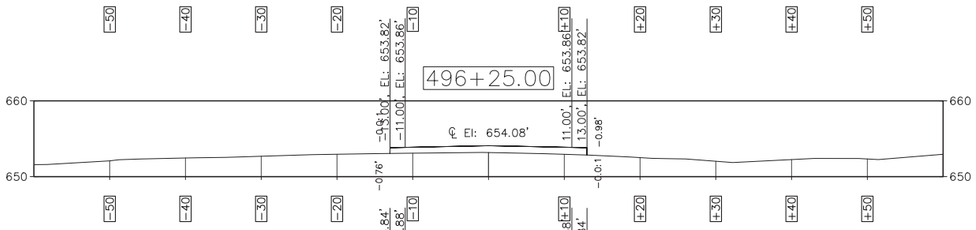
Total Volume at Station 497+00.00	
Cut Area (SF)	10.67
Fill Area (SF)	29.82
Cut Volume (CY)	9
Fill Volume (CY)	27



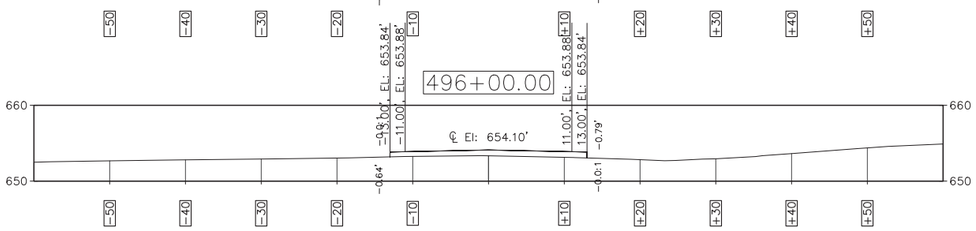
Total Volume at Station 496+75.00	
Cut Area (SF)	9.12
Fill Area (SF)	29.12
Cut Volume (CY)	6
Fill Volume (CY)	26



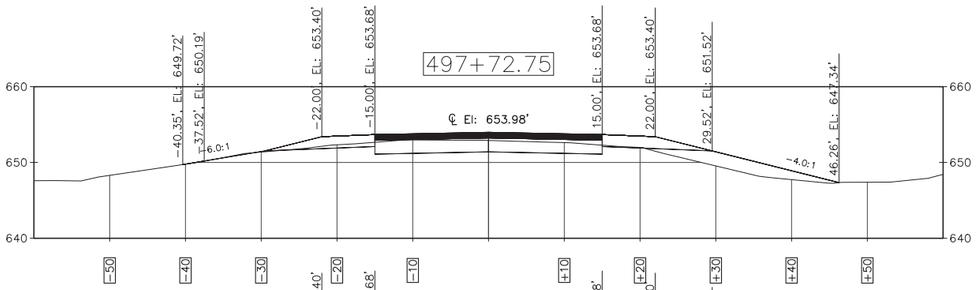
Total Volume at Station 496+50.00	
Cut Area (SF)	3.82
Fill Area (SF)	26.81
Cut Volume (CY)	7
Fill Volume (CY)	23



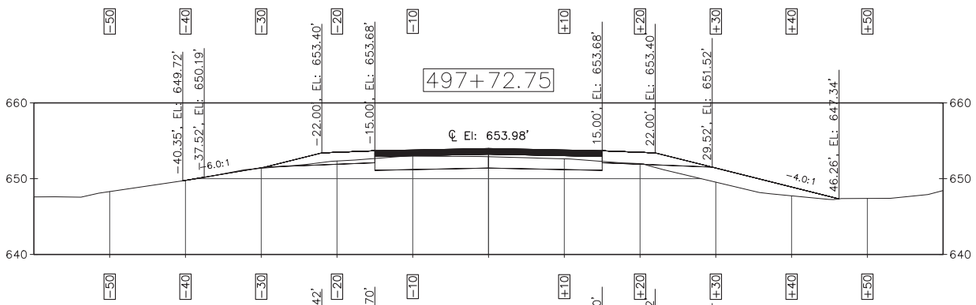
Total Volume at Station 496+25.00	
Cut Area (SF)	10.53
Fill Area (SF)	22.67
Cut Volume (CY)	9
Fill Volume (CY)	19



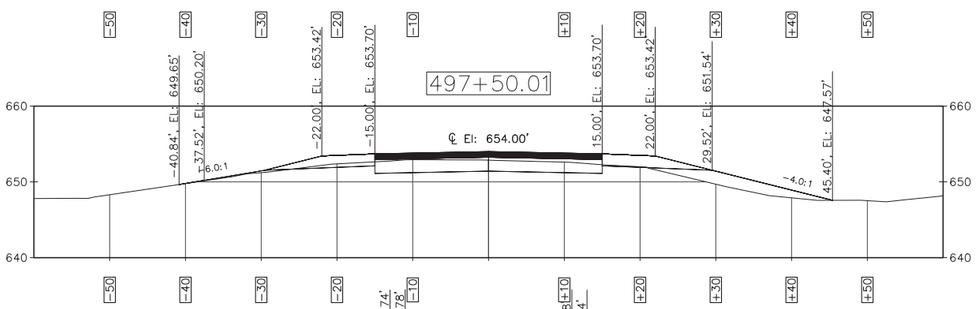
Total Volume at Station 496+00.00	
Cut Area (SF)	7.97
Fill Area (SF)	18.74
Cut Volume (CY)	6
Fill Volume (CY)	17



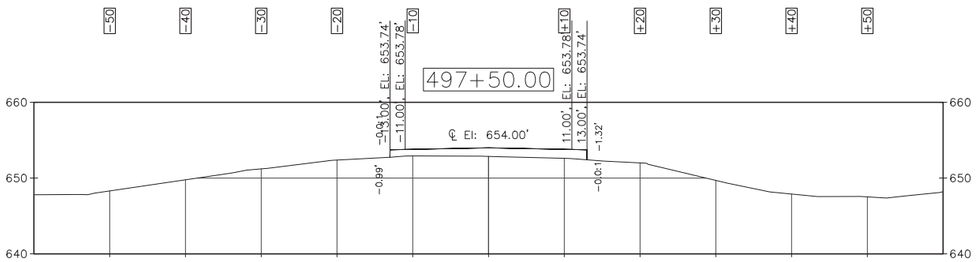
Total Volume at Station 497+72.75	
Cut Area (SF)	50.81
Fill Area (SF)	30.86
Cut Volume (CY)	0
Fill Volume (CY)	0



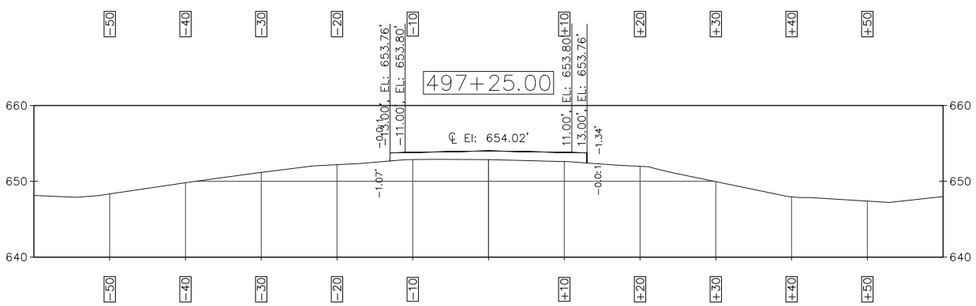
Total Volume at Station 497+72.75	
Cut Area (SF)	50.81
Fill Area (SF)	30.86
Cut Volume (CY)	42
Fill Volume (CY)	25



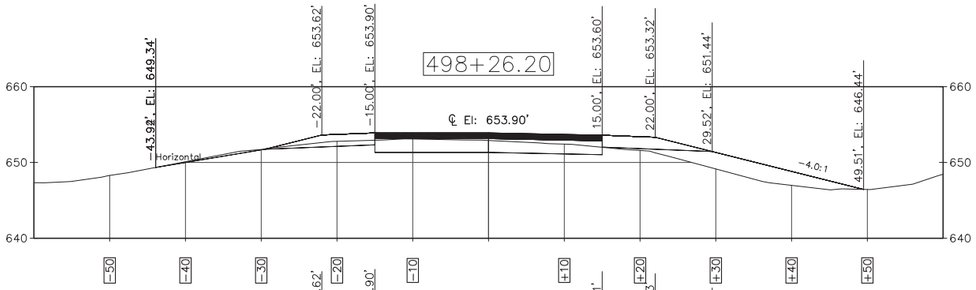
Total Volume at Station 497+50.01	
Cut Area (SF)	49.22
Fill Area (SF)	28.18
Cut Volume (CY)	0
Fill Volume (CY)	0



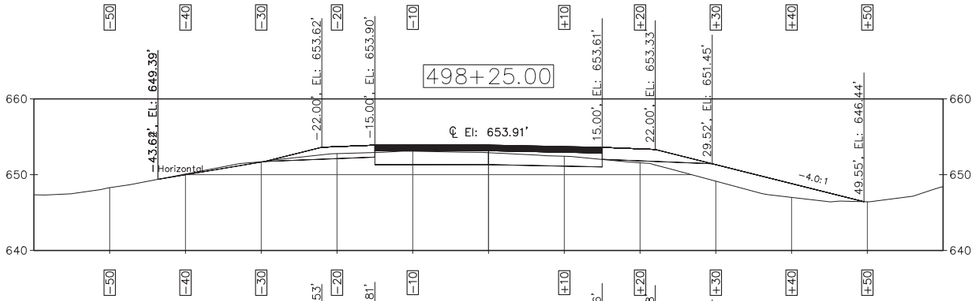
Total Volume at Station 497+50.00	
Cut Area (SF)	7.29
Fill Area (SF)	56.19
Cut Volume (CY)	9
Fill Volume (CY)	41



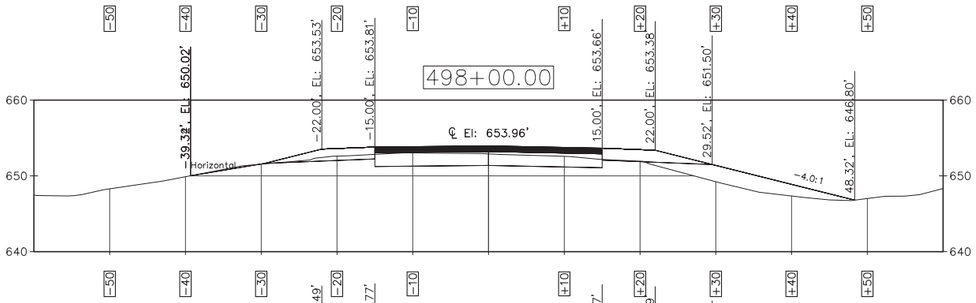
Total Volume at Station 497+25.00	
Cut Area (SF)	12.09
Fill Area (SF)	32.13
Cut Volume (CY)	11
Fill Volume (CY)	29



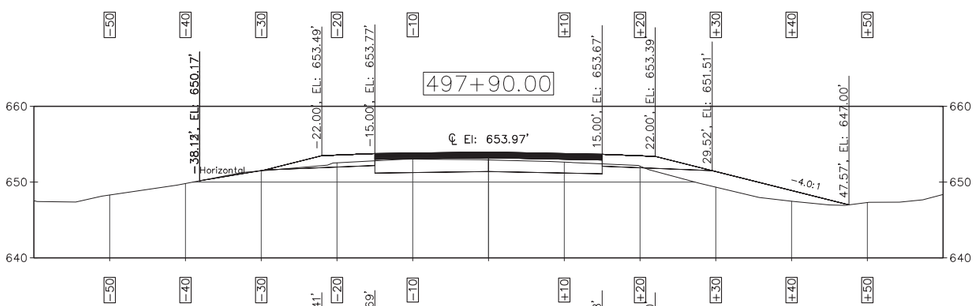
Total Volume at Station 498+26.20	
Cut Area (SF)	57.51
Fill Area (SF)	44.08
Cut Volume (CY)	3
Fill Volume (CY)	2



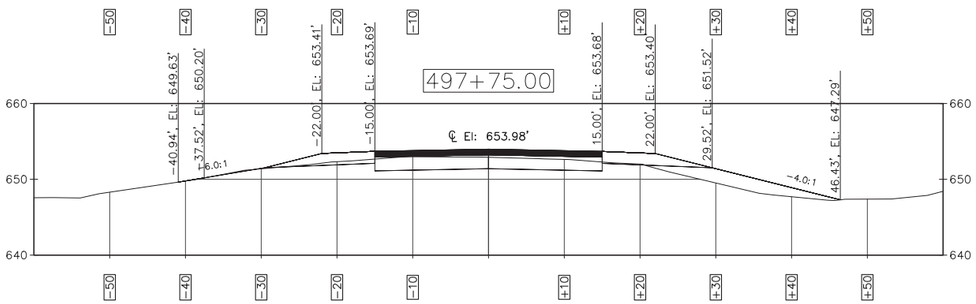
Total Volume at Station 498+25.00	
Cut Area (SF)	56.97
Fill Area (SF)	43.99
Cut Volume (CY)	51
Fill Volume (CY)	38



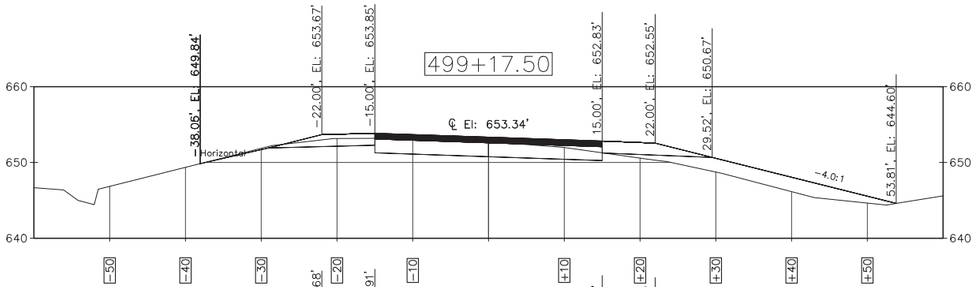
Total Volume at Station 498+00.00	
Cut Area (SF)	52.12
Fill Area (SF)	38.54
Cut Volume (CY)	20
Fill Volume (CY)	14



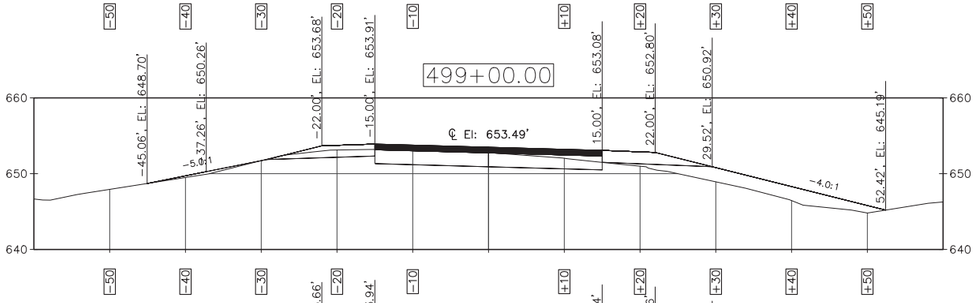
Total Volume at Station 497+90.00	
Cut Area (SF)	53.73
Fill Area (SF)	35.99
Cut Volume (CY)	29
Fill Volume (CY)	19



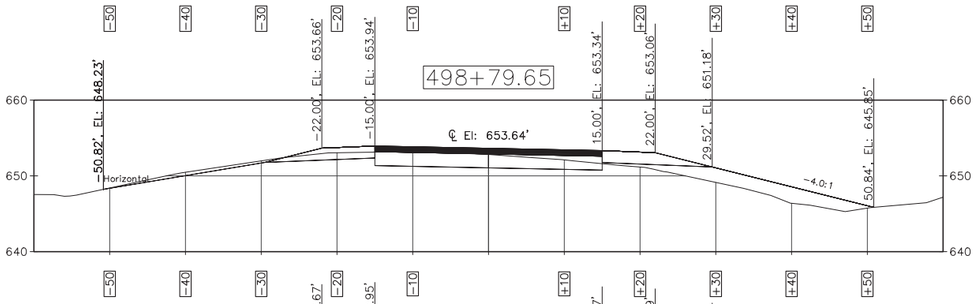
Total Volume at Station 497+75.00	
Cut Area (SF)	50.92
Fill Area (SF)	31.57
Cut Volume (CY)	4
Fill Volume (CY)	3



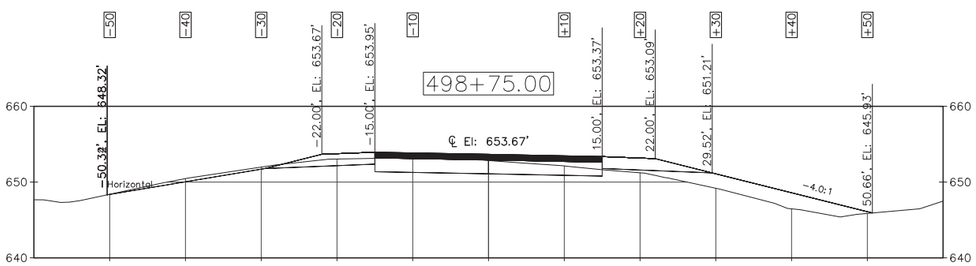
Total Volume at Station 499+17.50	
Cut Area (SF)	74.96
Fill Area (SF)	57.81
Cut Volume (CY)	50
Fill Volume (CY)	35



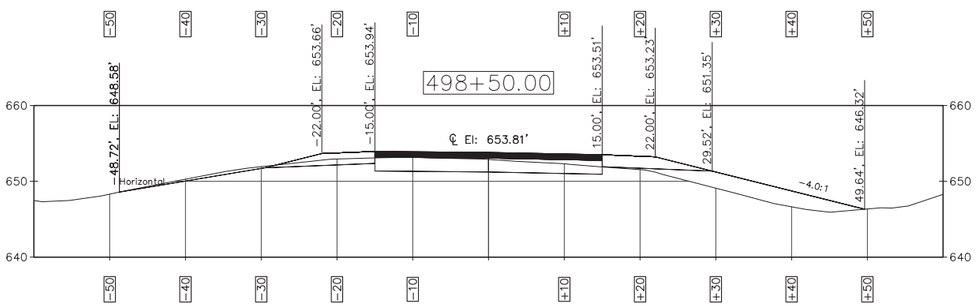
Total Volume at Station 499+00.00	
Cut Area (SF)	78.90
Fill Area (SF)	50.88
Cut Volume (CY)	63
Fill Volume (CY)	37



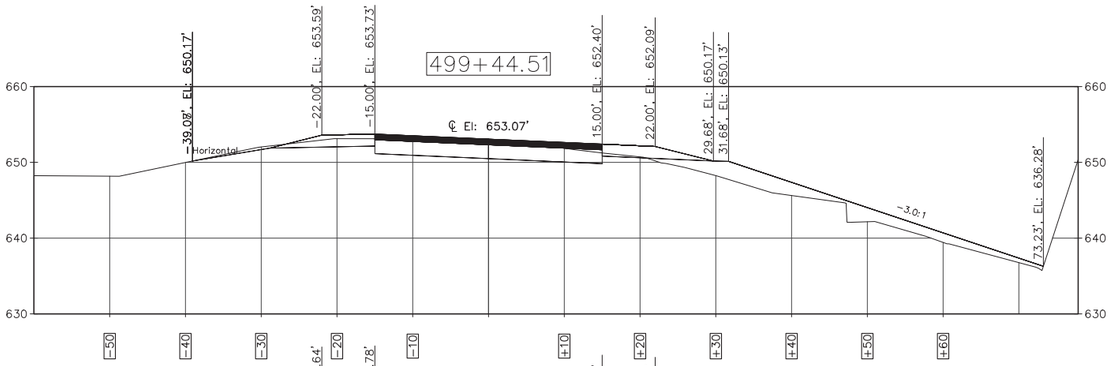
Total Volume at Station 498+79.65	
Cut Area (SF)	87.53
Fill Area (SF)	47.23
Cut Volume (CY)	15
Fill Volume (CY)	8



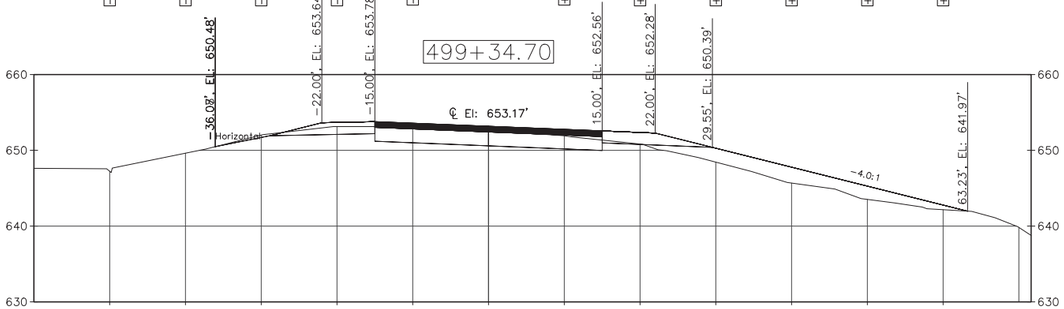
Total Volume at Station 498+75.00	
Cut Area (SF)	88.01
Fill Area (SF)	47.17
Cut Volume (CY)	75
Fill Volume (CY)	43



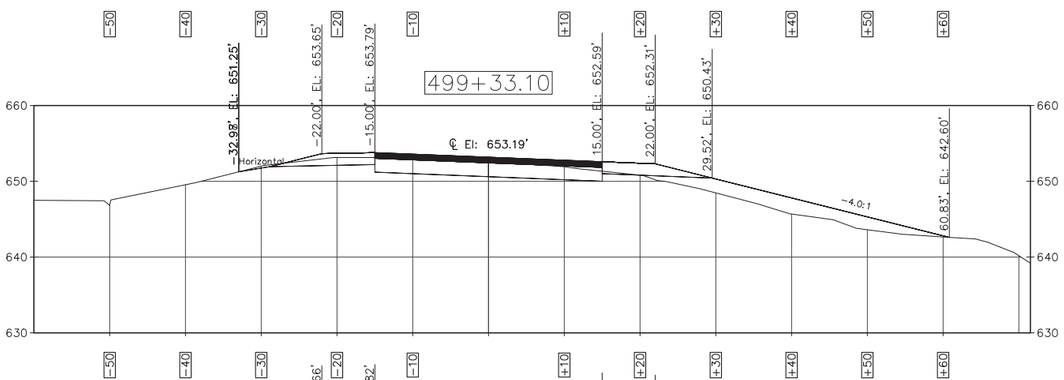
Total Volume at Station 498+50.00	
Cut Area (SF)	73.18
Fill Area (SF)	46.76
Cut Volume (CY)	58
Fill Volume (CY)	40



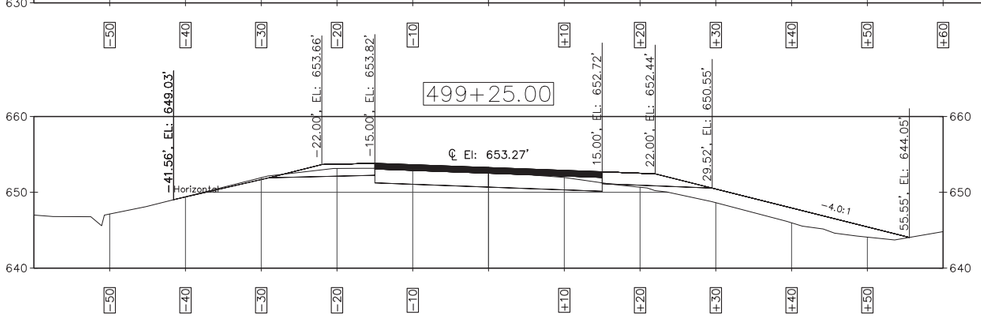
Total Volume at Station 499+44.51	
Cut Area (SF)	75.34
Fill Area (SF)	72.22
Cut Volume (CY)	29
Fill Volume (CY)	25



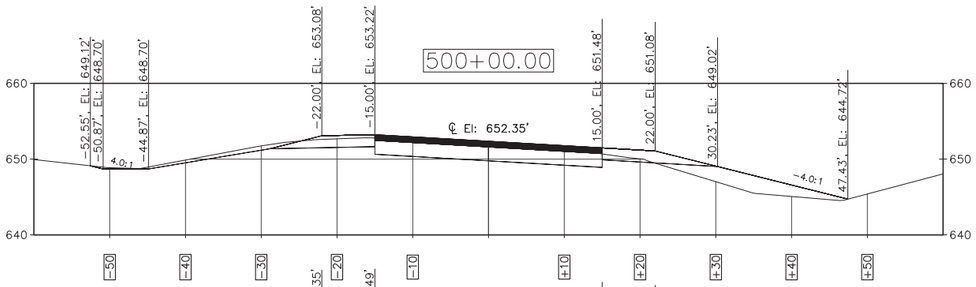
Total Volume at Station 499+34.70	
Cut Area (SF)	83.50
Fill Area (SF)	65.03
Cut Volume (CY)	5
Fill Volume (CY)	4



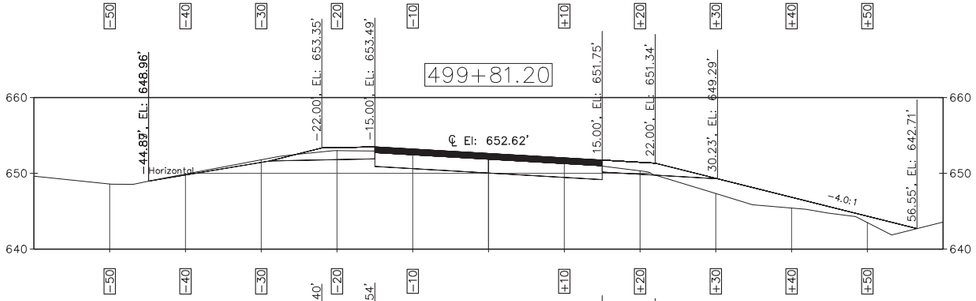
Total Volume at Station 499+33.10	
Cut Area (SF)	87.17
Fill Area (SF)	63.07
Cut Volume (CY)	24
Fill Volume (CY)	19



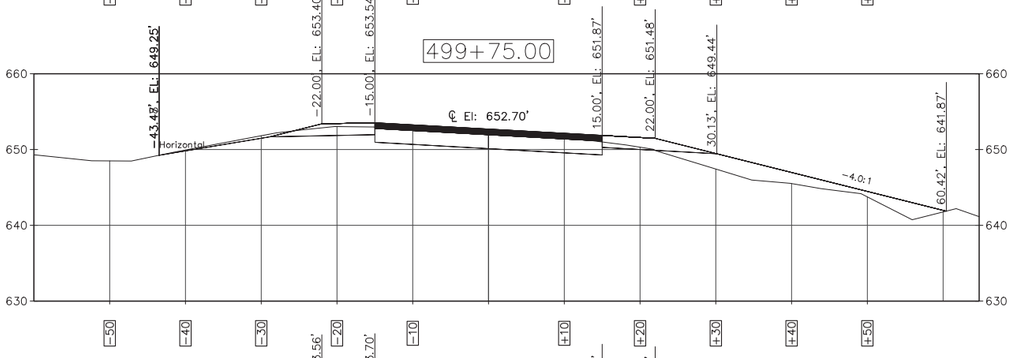
Total Volume at Station 499+25.00	
Cut Area (SF)	72.30
Fill Area (SF)	60.54
Cut Volume (CY)	20
Fill Volume (CY)	16



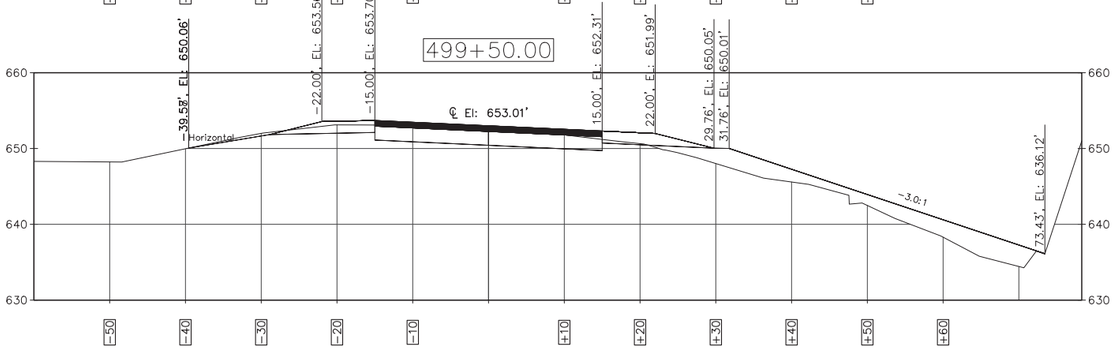
Total Volume at Station 500+00.00	
Cut Area (SF)	136.03
Fill Area (SF)	35.29
Cut Volume (CY)	78
Fill Volume (CY)	28



Total Volume at Station 499+81.20	
Cut Area (SF)	87.82
Fill Area (SF)	46.52
Cut Volume (CY)	20
Fill Volume (CY)	12

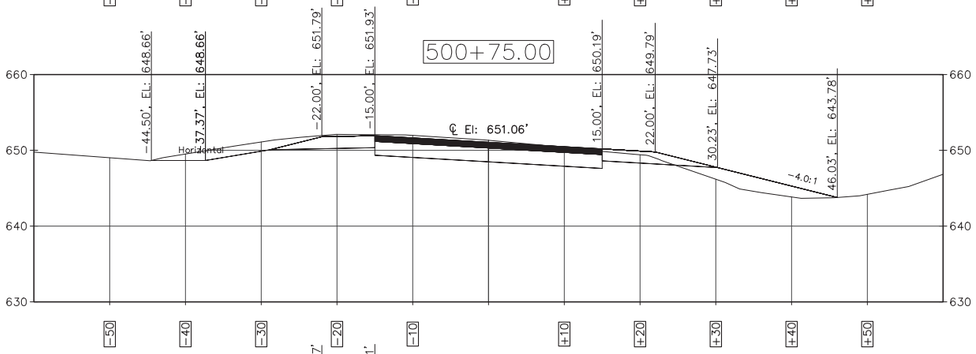


Total Volume at Station 499+75.00	
Cut Area (SF)	87.47
Fill Area (SF)	56.02
Cut Volume (CY)	76
Fill Volume (CY)	72

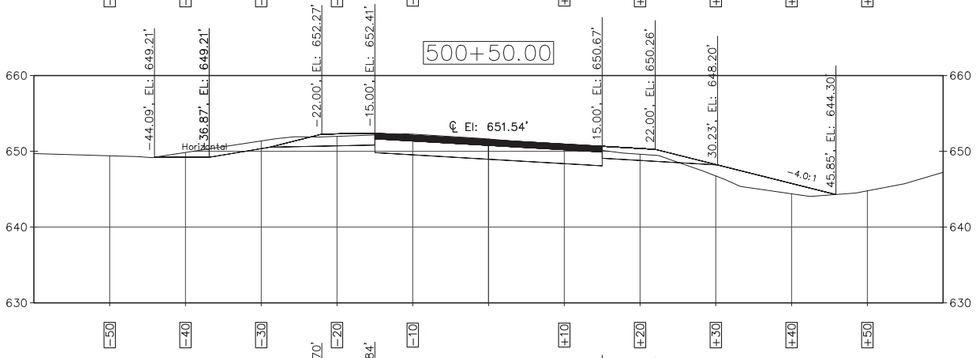


Total Volume at Station 499+50.00	
Cut Area (SF)	76.56
Fill Area (SF)	99.97
Cut Volume (CY)	15
Fill Volume (CY)	17

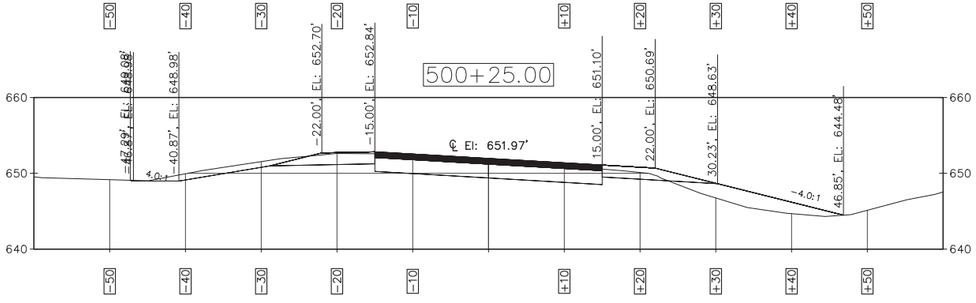
Total Volume at Station 501+00.00	
Cut Area (SF)	174.35
Fill Area (SF)	28.90
Cut Volume (CY)	162
Fill Volume (CY)	26



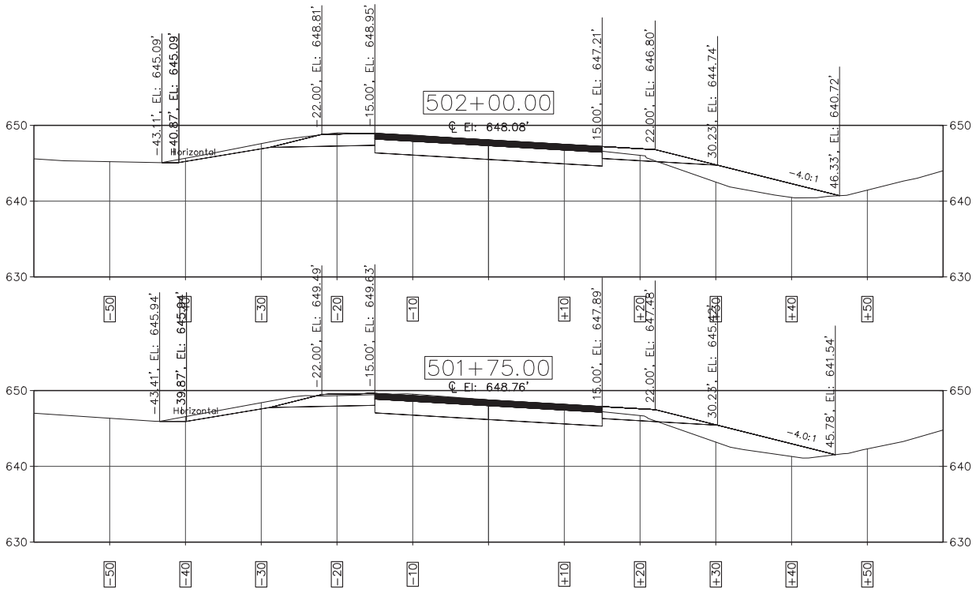
Total Volume at Station 500+75.00	
Cut Area (SF)	174.61
Fill Area (SF)	27.10
Cut Volume (CY)	156
Fill Volume (CY)	24



Total Volume at Station 500+50.00	
Cut Area (SF)	161.96
Fill Area (SF)	25.75
Cut Volume (CY)	147
Fill Volume (CY)	27

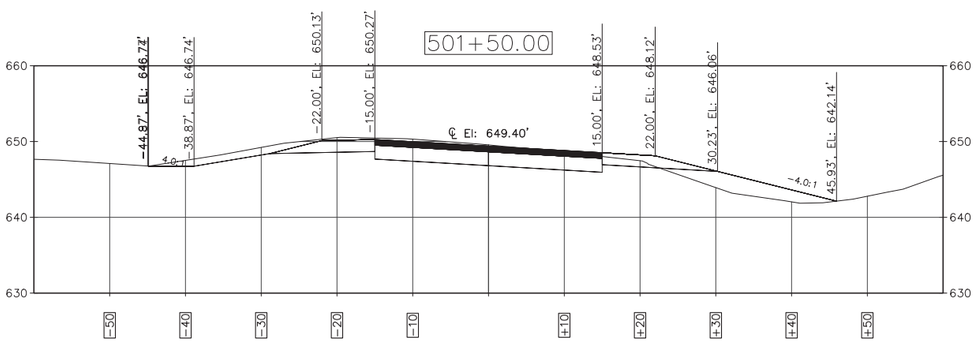


Total Volume at Station 500+25.00	
Cut Area (SF)	155.50
Fill Area (SF)	31.75
Cut Volume (CY)	135
Fill Volume (CY)	31

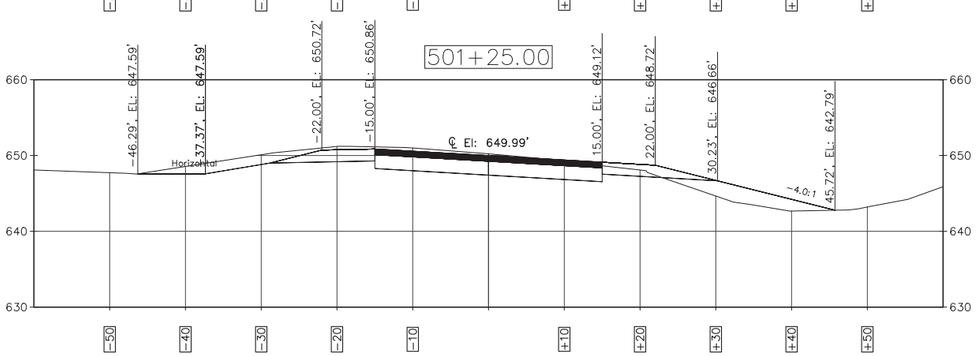


Total Volume at Station 502+00.00	
Cut Area (SF)	109.37
Fill Area (SF)	36.95
Cut Volume (CY)	109
Fill Volume (CY)	34

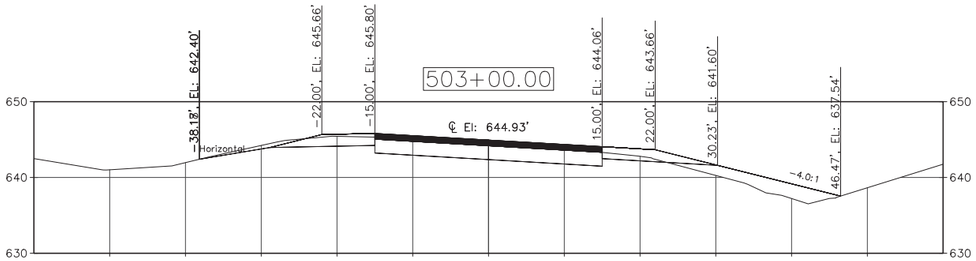
Total Volume at Station 501+75.00	
Cut Area (SF)	126.33
Fill Area (SF)	35.90
Cut Volume (CY)	131
Fill Volume (CY)	32



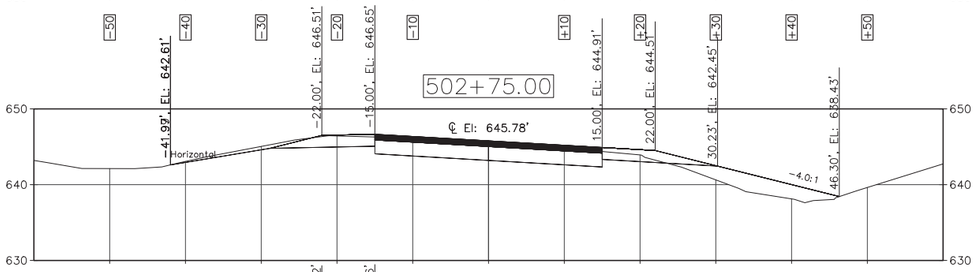
Total Volume at Station 501+50.00	
Cut Area (SF)	157.36
Fill Area (SF)	34.10
Cut Volume (CY)	154
Fill Volume (CY)	30



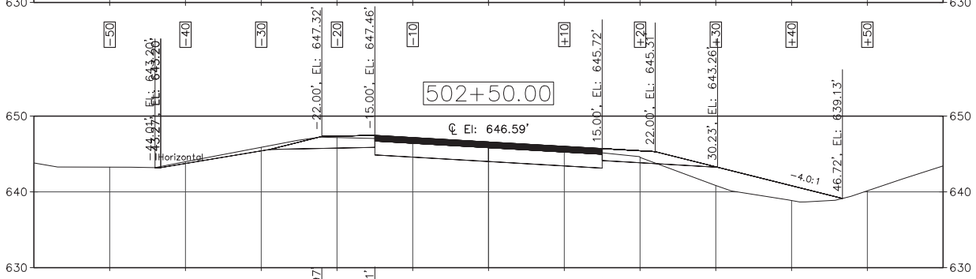
Total Volume at Station 501+25.00	
Cut Area (SF)	174.21
Fill Area (SF)	31.24
Cut Volume (CY)	161
Fill Volume (CY)	28



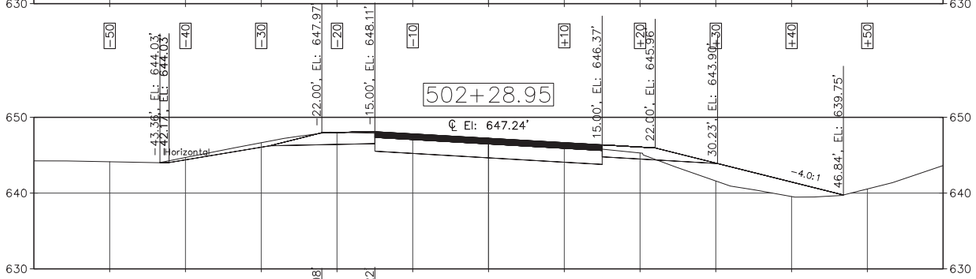
Total Volume at Station 503+00.00	
Cut Area (SF)	88.32
Fill Area (SF)	30.72
Cut Volume (CY)	85
Fill Volume (CY)	30



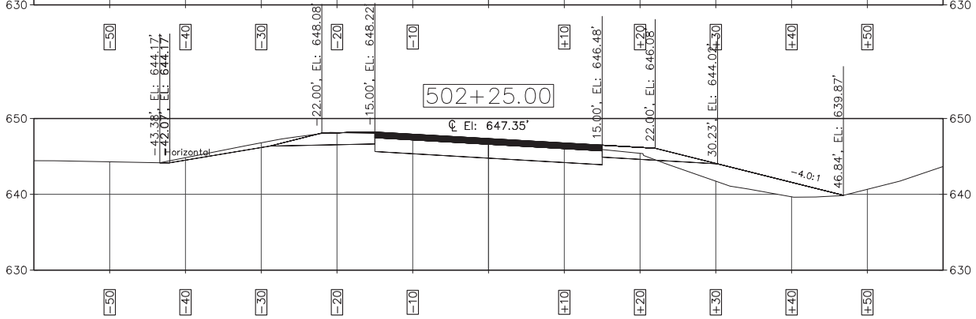
Total Volume at Station 502+75.00	
Cut Area (SF)	95.40
Fill Area (SF)	34.92
Cut Volume (CY)	89
Fill Volume (CY)	35



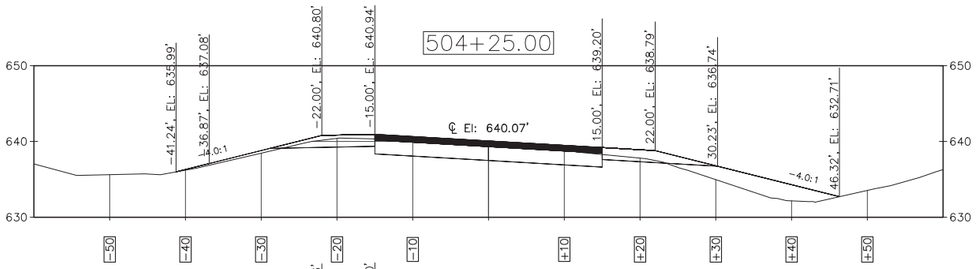
Total Volume at Station 502+50.00	
Cut Area (SF)	97.27
Fill Area (SF)	40.95
Cut Volume (CY)	77
Fill Volume (CY)	31



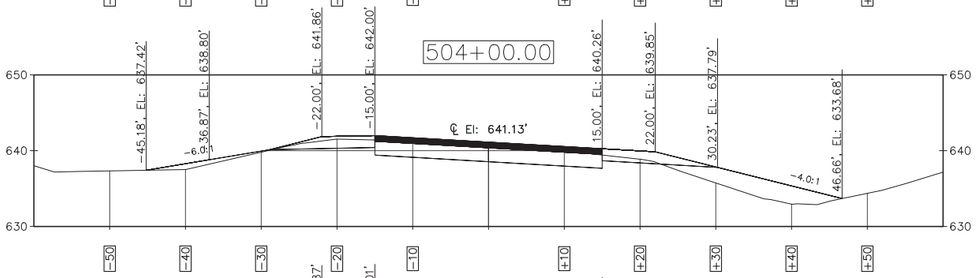
Total Volume at Station 502+28.95	
Cut Area (SF)	101.08
Fill Area (SF)	39.00
Cut Volume (CY)	15
Fill Volume (CY)	6



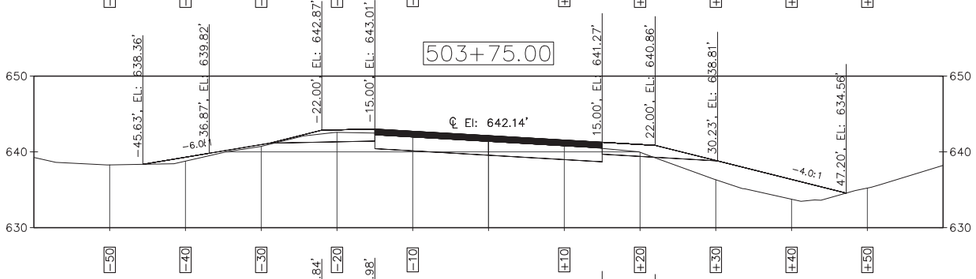
Total Volume at Station 502+25.00	
Cut Area (SF)	101.61
Fill Area (SF)	38.64
Cut Volume (CY)	98
Fill Volume (CY)	35



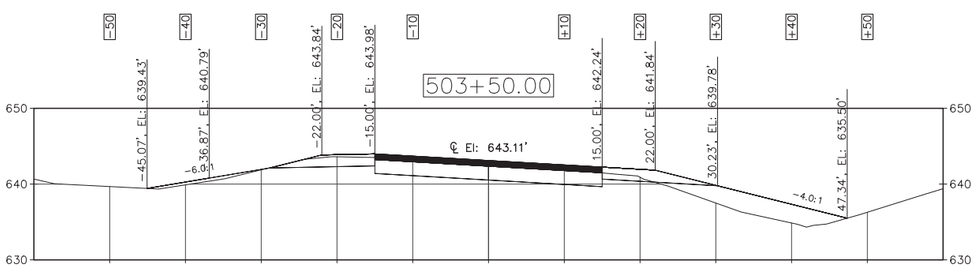
Total Volume at Station 504+25.00	
Cut Area (SF)	75.02
Fill Area (SF)	38.99
Cut Volume (CY)	71
Fill Volume (CY)	40



Total Volume at Station 504+00.00	
Cut Area (SF)	78.22
Fill Area (SF)	47.77
Cut Volume (CY)	73
Fill Volume (CY)	47

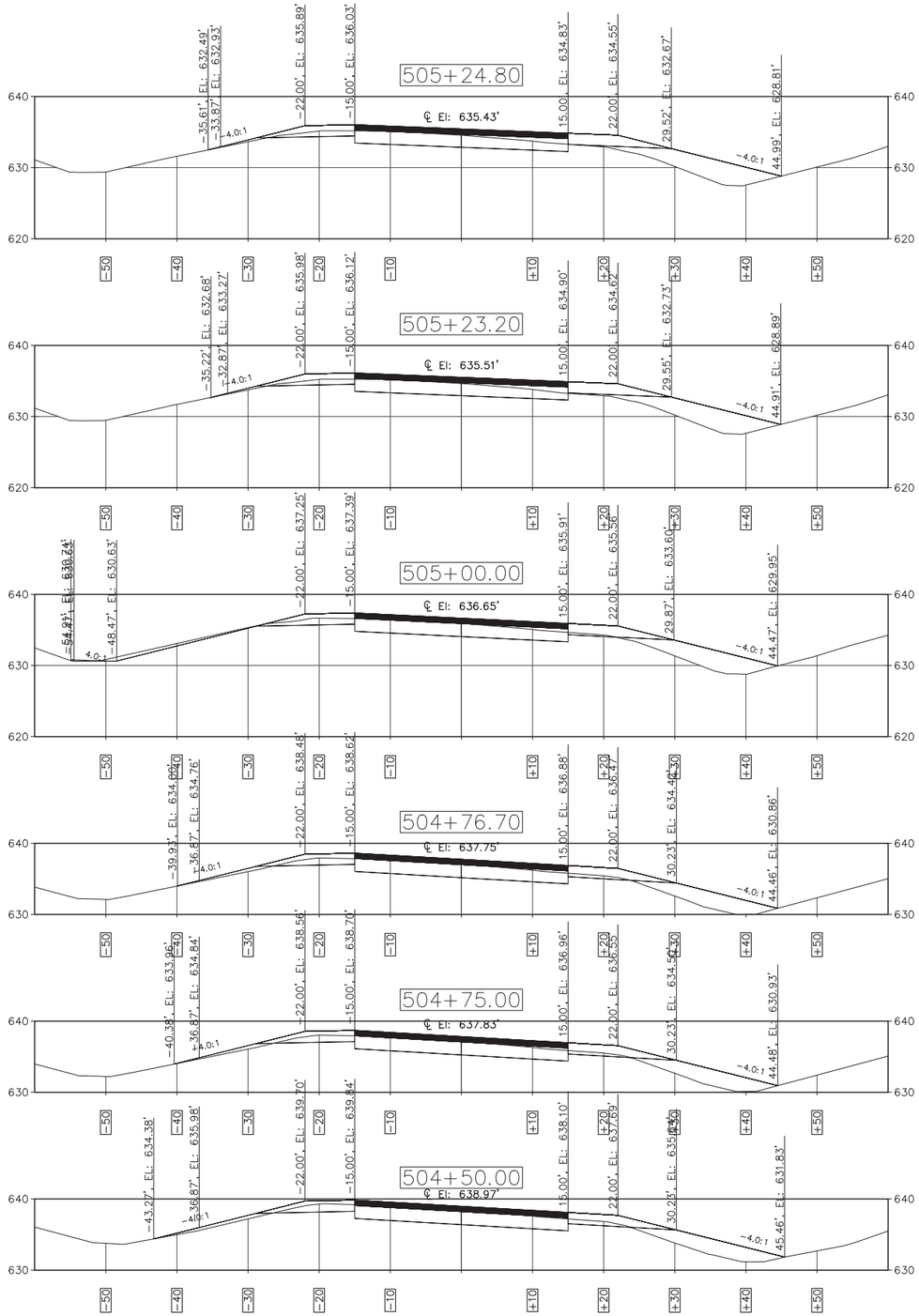


Total Volume at Station 503+75.00	
Cut Area (SF)	79.80
Fill Area (SF)	54.38
Cut Volume (CY)	75
Fill Volume (CY)	49



Total Volume at Station 503+50.00	
Cut Area (SF)	82.68
Fill Area (SF)	51.29
Cut Volume (CY)	78
Fill Volume (CY)	42

Total Volume at Station 503+25.00	
Cut Area (SF)	84.97
Fill Area (SF)	38.67
Cut Volume (CY)	80
Fill Volume (CY)	32



Total Volume at Station 505+24.80	
Cut Area (SF)	54.99
Fill Area (SF)	49.46
Cut Volume (CY)	3
Fill Volume (CY)	3

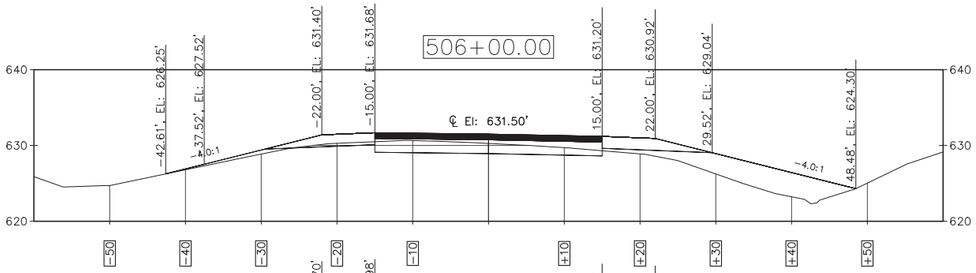
Total Volume at Station 505+23.20	
Cut Area (SF)	55.14
Fill Area (SF)	49.74
Cut Volume (CY)	54
Fill Volume (CY)	38

Total Volume at Station 505+00.00	
Cut Area (SF)	71.11
Fill Area (SF)	39.69
Cut Volume (CY)	59
Fill Volume (CY)	33

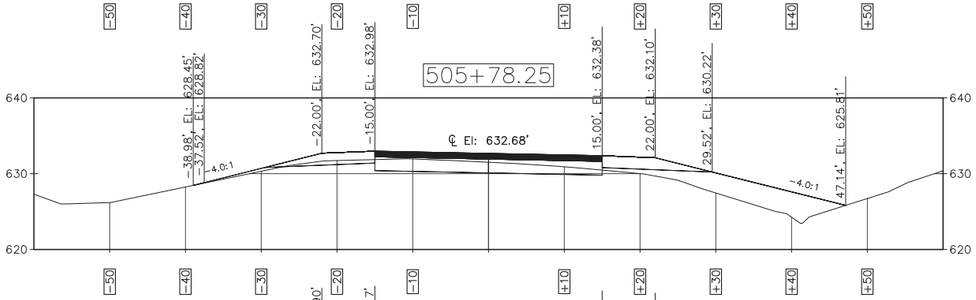
Total Volume at Station 504+76.70	
Cut Area (SF)	66.70
Fill Area (SF)	37.80
Cut Volume (CY)	4
Fill Volume (CY)	2

Total Volume at Station 504+75.00	
Cut Area (SF)	66.84
Fill Area (SF)	37.75
Cut Volume (CY)	64
Fill Volume (CY)	36

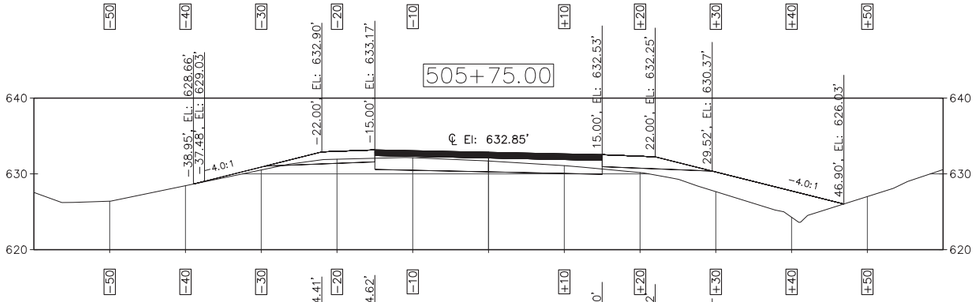
Total Volume at Station 504+50.00	
Cut Area (SF)	72.01
Fill Area (SF)	39.24
Cut Volume (CY)	68
Fill Volume (CY)	36



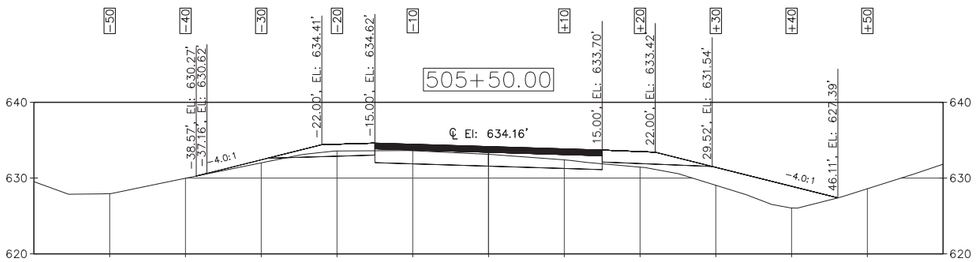
Total Volume at Station 506+00.00	
Cut Area (SF)	41.76
Fill Area (SF)	70.04
Cut Volume (CY)	35
Fill Volume (CY)	54



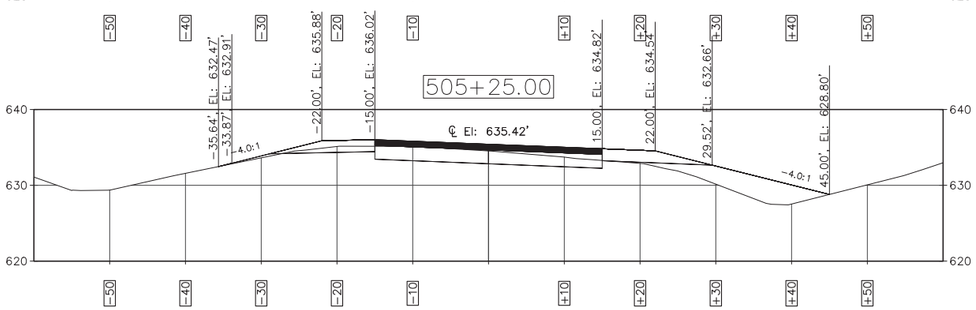
Total Volume at Station 505+78.25	
Cut Area (SF)	44.78
Fill Area (SF)	63.28
Cut Volume (CY)	5
Fill Volume (CY)	8



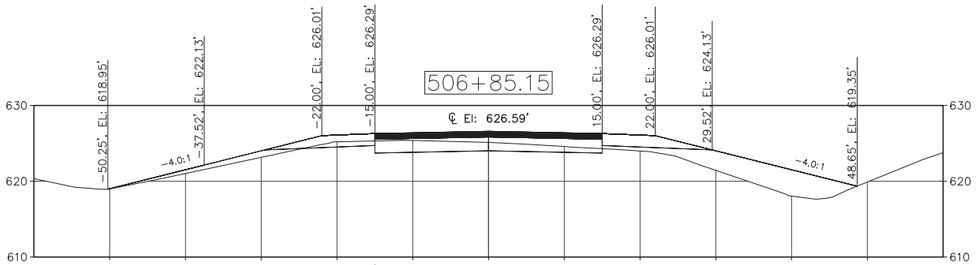
Total Volume at Station 505+75.00	
Cut Area (SF)	45.15
Fill Area (SF)	61.97
Cut Volume (CY)	44
Fill Volume (CY)	54



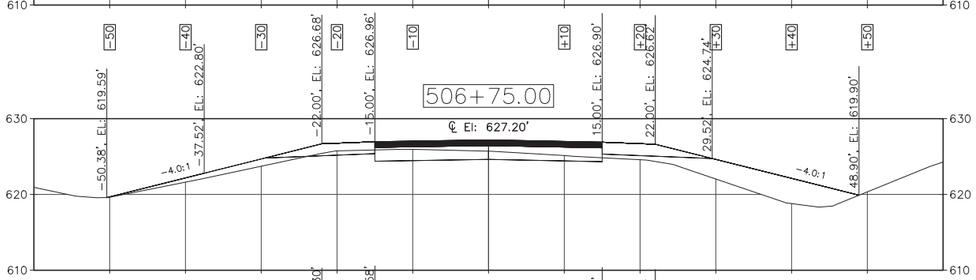
Total Volume at Station 505+50.00	
Cut Area (SF)	48.97
Fill Area (SF)	53.81
Cut Volume (CY)	48
Fill Volume (CY)	48



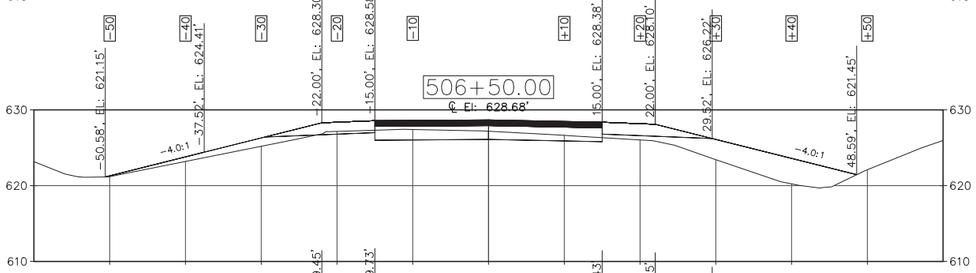
Total Volume at Station 505+25.00	
Cut Area (SF)	54.98
Fill Area (SF)	49.47
Cut Volume (CY)	0
Fill Volume (CY)	0



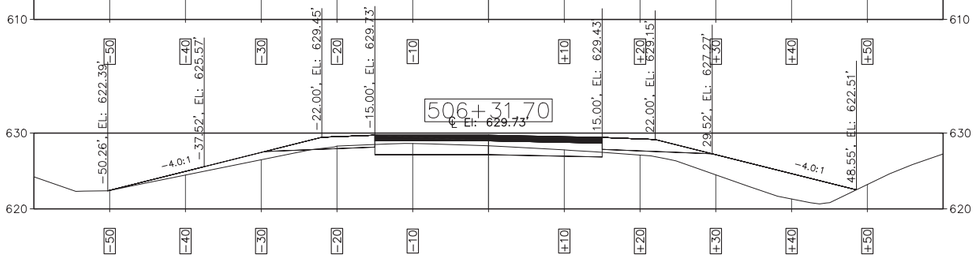
Total Volume at Station 506+85.15	
Cut Area (SF)	39.16
Fill Area (SF)	77.98
Cut Volume (CY)	14
Fill Volume (CY)	30



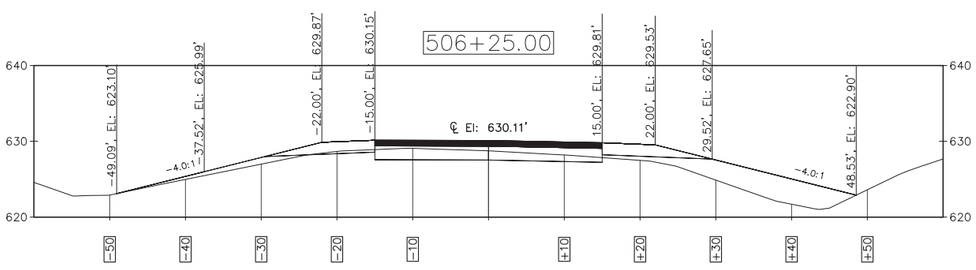
Total Volume at Station 506+75.00	
Cut Area (SF)	36.27
Fill Area (SF)	80.32
Cut Volume (CY)	33
Fill Volume (CY)	76



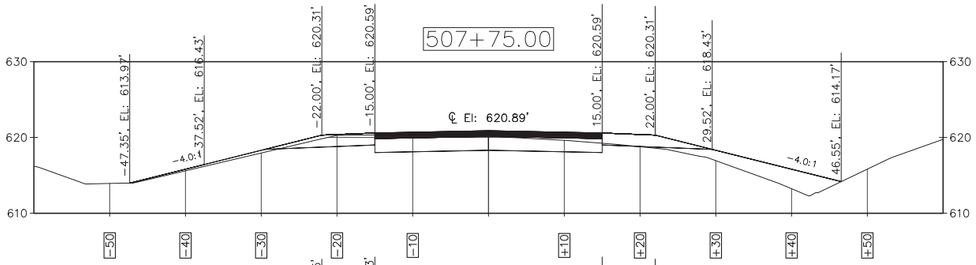
Total Volume at Station 506+50.00	
Cut Area (SF)	34.02
Fill Area (SF)	84.05
Cut Volume (CY)	24
Fill Volume (CY)	56



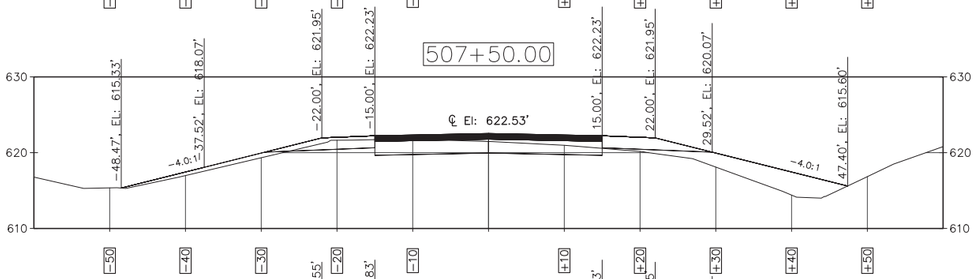
Total Volume at Station 506+31.70	
Cut Area (SF)	36.34
Fill Area (SF)	80.96
Cut Volume (CY)	9
Fill Volume (CY)	20



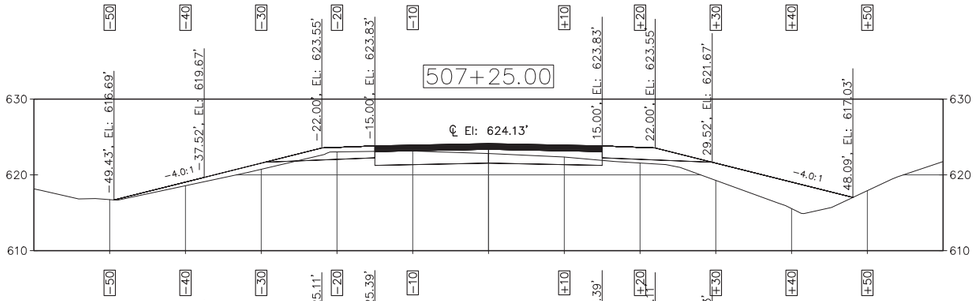
Total Volume at Station 506+25.00	
Cut Area (SF)	37.16
Fill Area (SF)	78.69
Cut Volume (CY)	37
Fill Volume (CY)	69



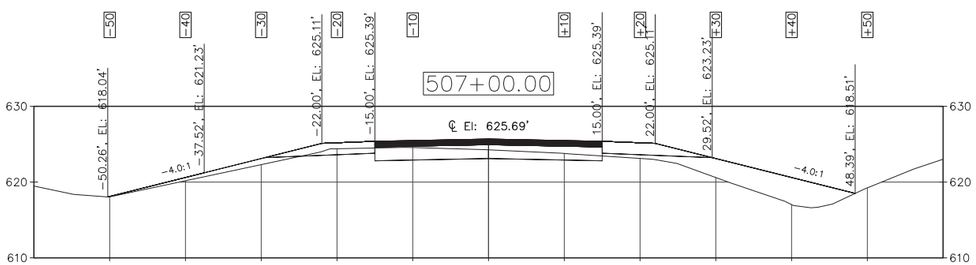
Total Volume at Station 507+75.00	
Cut Area (SF)	68.95
Fill Area (SF)	51.69
Cut Volume (CY)	58
Fill Volume (CY)	51



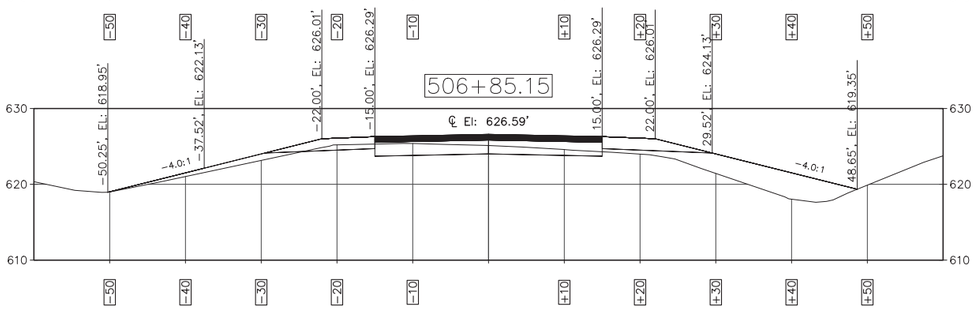
Total Volume at Station 507+50.00	
Cut Area (SF)	56.67
Fill Area (SF)	59.03
Cut Volume (CY)	48
Fill Volume (CY)	61



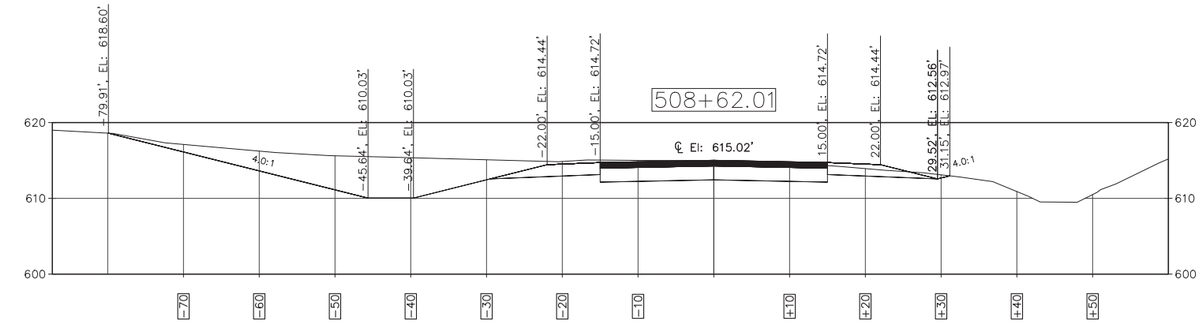
Total Volume at Station 507+25.00	
Cut Area (SF)	47.52
Fill Area (SF)	72.28
Cut Volume (CY)	42
Fill Volume (CY)	68



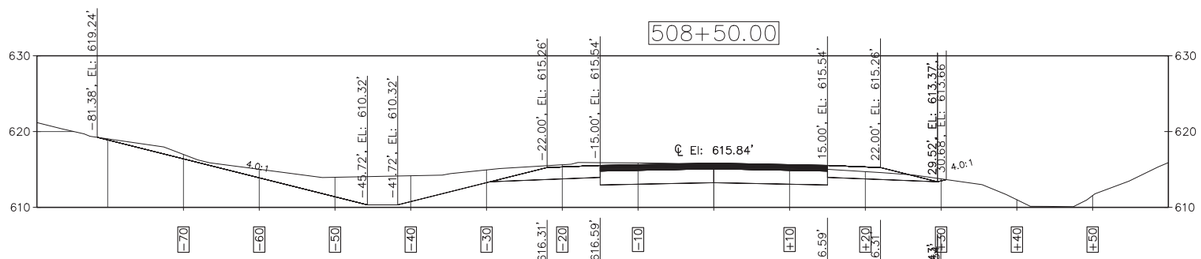
Total Volume at Station 507+00.00	
Cut Area (SF)	42.28
Fill Area (SF)	75.55
Cut Volume (CY)	22
Fill Volume (CY)	42



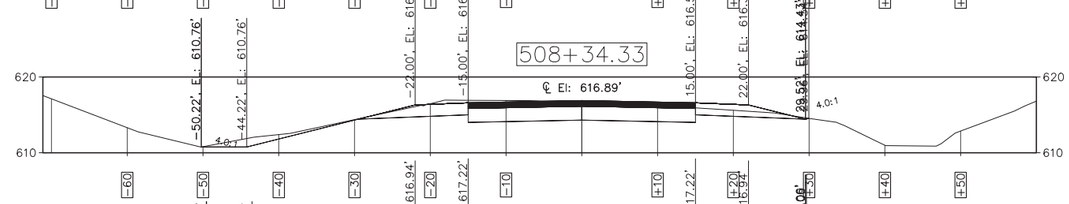
Total Volume at Station 506+85.15	
Cut Area (SF)	39.16
Fill Area (SF)	77.98
Cut Volume (CY)	0
Fill Volume (CY)	0



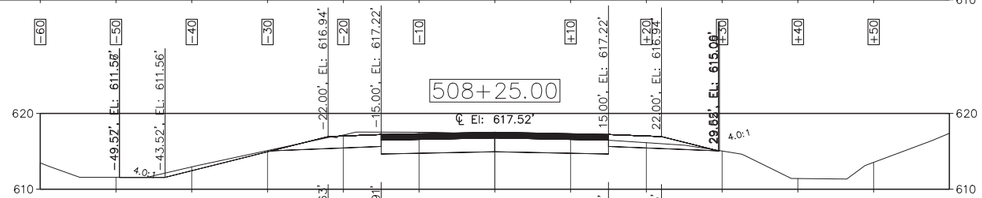
Total Volume at Station 508+62.01	
Cut Area (SF)	274.00
Fill Area (SF)	0.08
Cut Volume (CY)	107
Fill Volume (CY)	1



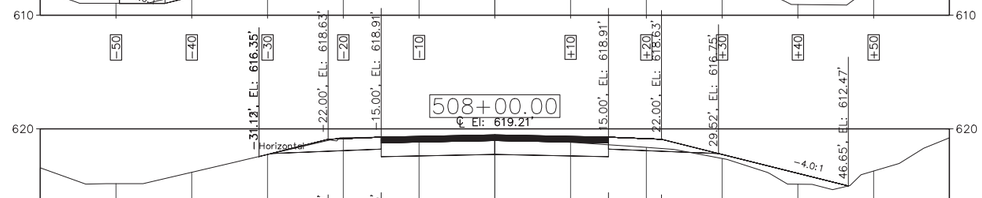
Total Volume at Station 508+50.00	
Cut Area (SF)	205.33
Fill Area (SF)	2.18
Cut Volume (CY)	92
Fill Volume (CY)	5



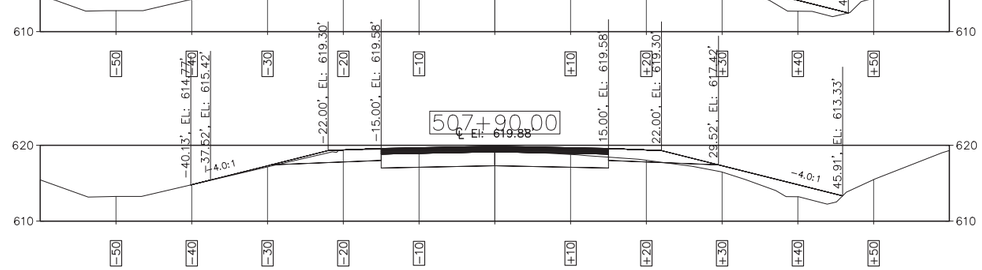
Total Volume at Station 508+34.33	
Cut Area (SF)	111.46
Fill Area (SF)	13.46
Cut Volume (CY)	37
Fill Volume (CY)	6



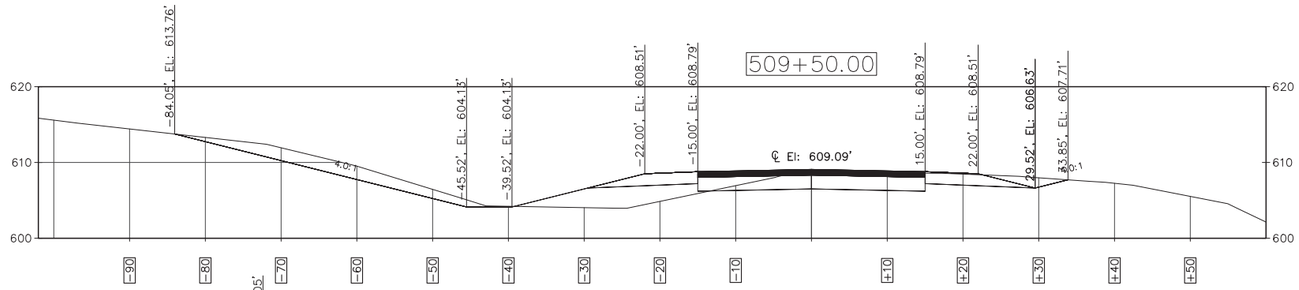
Total Volume at Station 508+25.00	
Cut Area (SF)	104.82
Fill Area (SF)	20.22
Cut Volume (CY)	88
Fill Volume (CY)	25



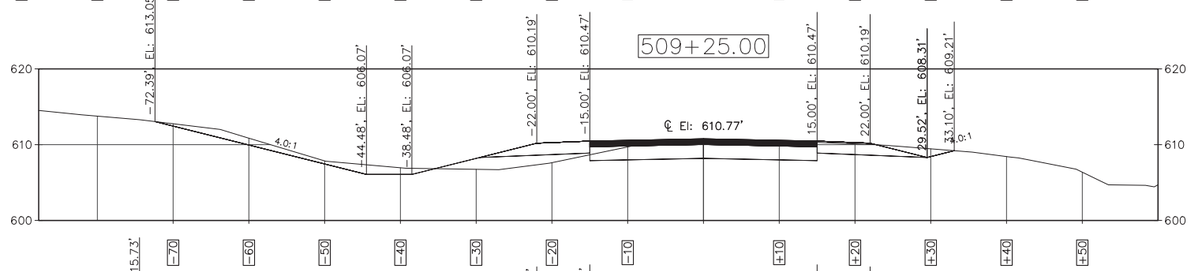
Total Volume at Station 508+00.00	
Cut Area (SF)	84.83
Fill Area (SF)	33.15
Cut Volume (CY)	30
Fill Volume (CY)	14



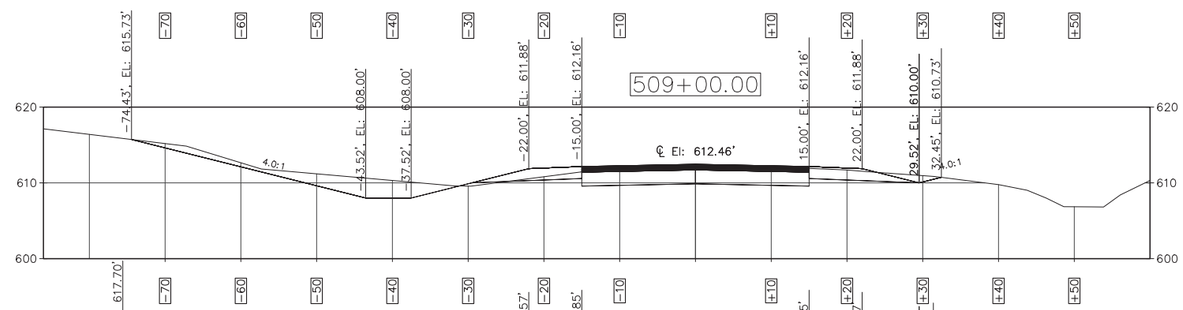
Total Volume at Station 507+90.00	
Cut Area (SF)	78.24
Fill Area (SF)	39.93
Cut Volume (CY)	41
Fill Volume (CY)	25



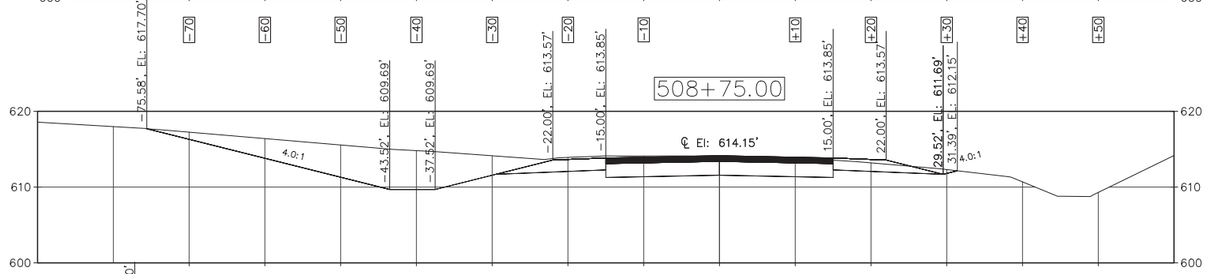
Total Volume at Station 509+50.00	
Cut Area (SF)	125.33
Fill Area (SF)	68.42
Cut Volume (CY)	110
Fill Volume (CY)	50



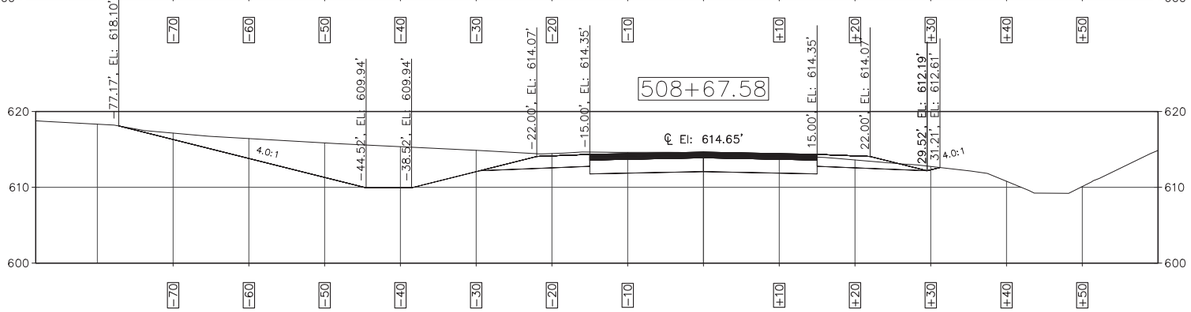
Total Volume at Station 509+25.00	
Cut Area (SF)	112.89
Fill Area (SF)	39.71
Cut Volume (CY)	121
Fill Volume (CY)	21



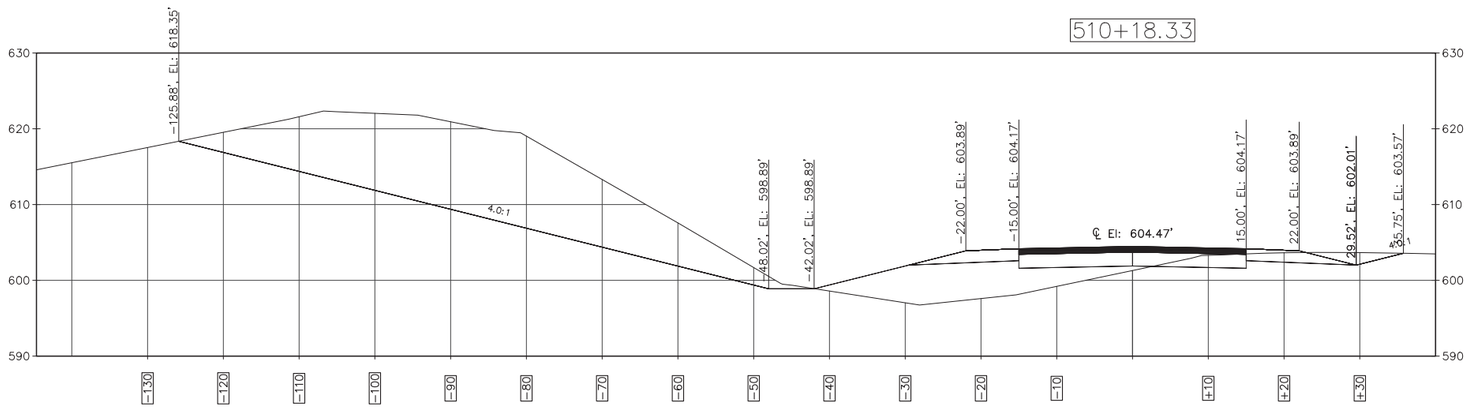
Total Volume at Station 509+00.00	
Cut Area (SF)	148.83
Fill Area (SF)	4.79
Cut Volume (CY)	194
Fill Volume (CY)	2



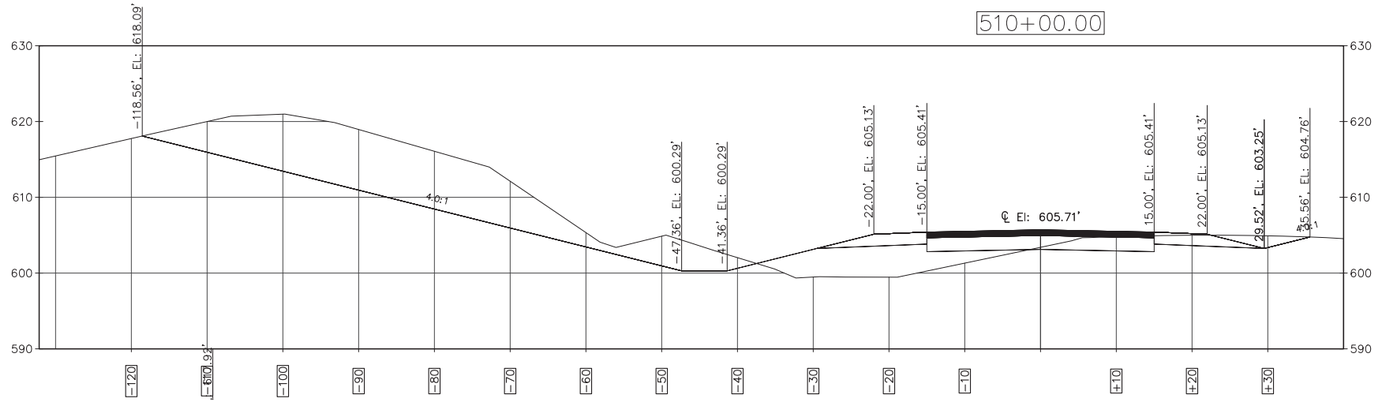
Total Volume at Station 508+75.00	
Cut Area (SF)	270.18
Fill Area (SF)	0.52
Cut Volume (CY)	75
Fill Volume (CY)	0



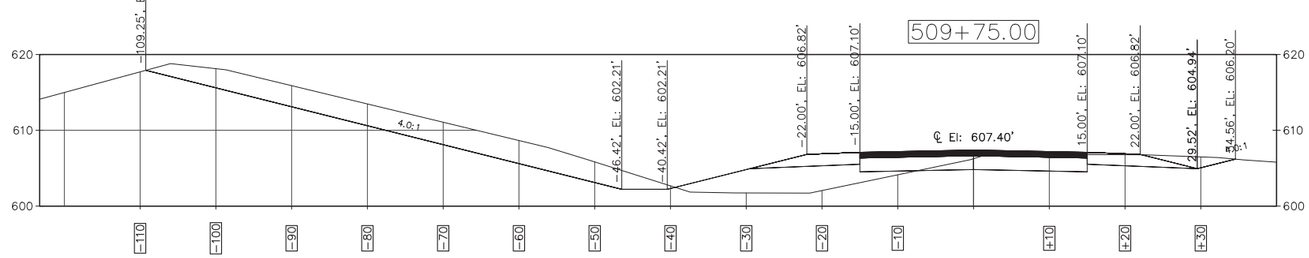
Total Volume at Station 508+67.58	
Cut Area (SF)	276.69
Fill Area (SF)	0.11
Cut Volume (CY)	57
Fill Volume (CY)	0



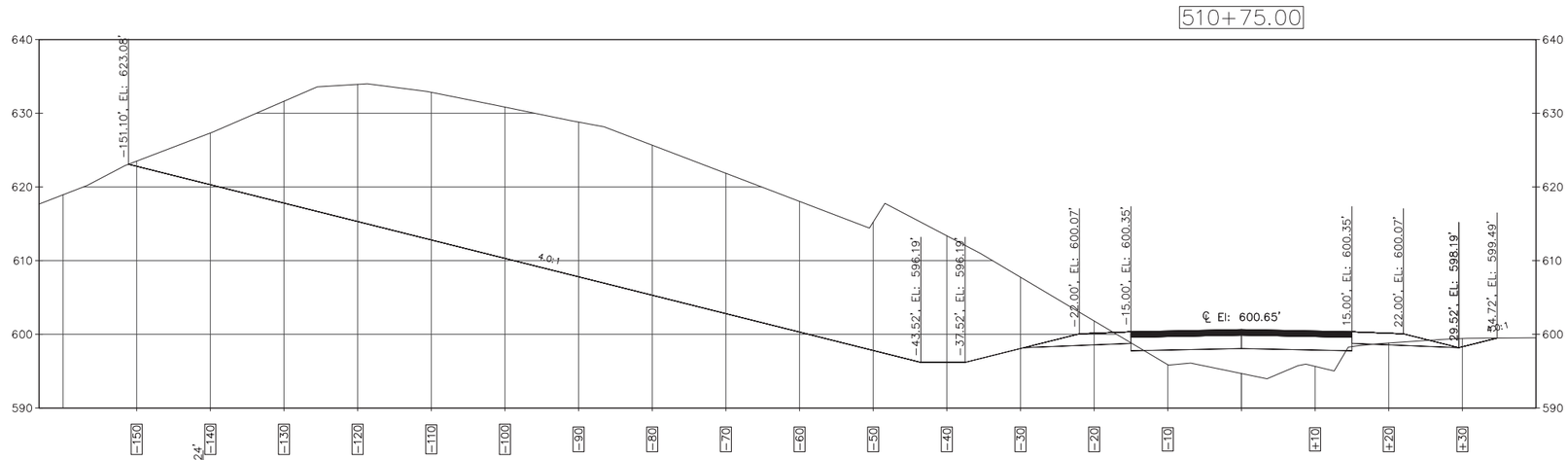
Total Volume at Station 510+18.33	
Cut Area (SF)	640.98
Fill Area (SF)	134.39
Cut Volume (CY)	370
Fill Volume (CY)	77



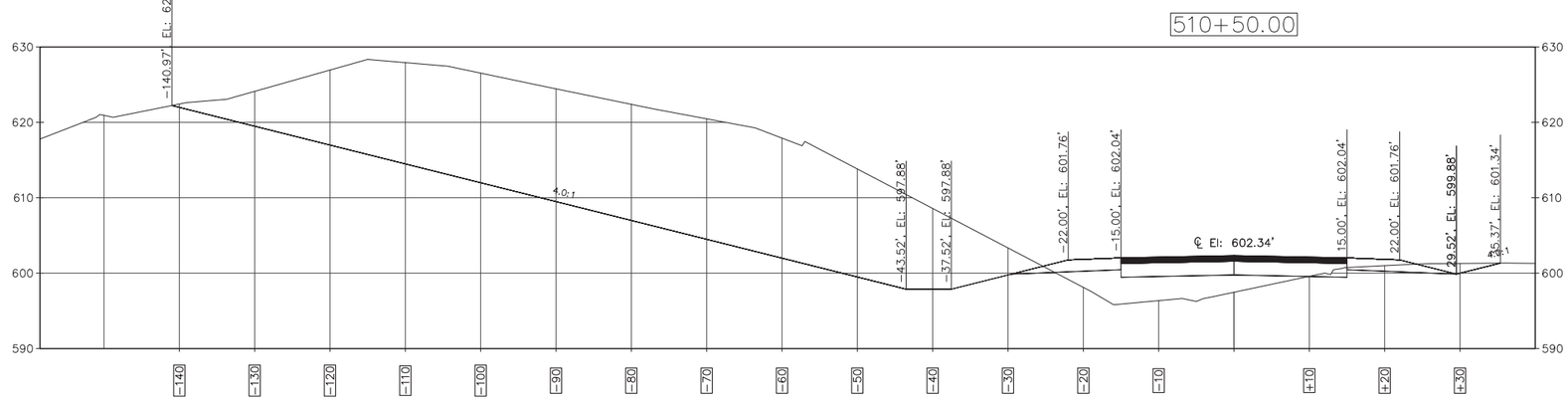
Total Volume at Station 510+00.00	
Cut Area (SF)	449.89
Fill Area (SF)	92.28
Cut Volume (CY)	320
Fill Volume (CY)	75



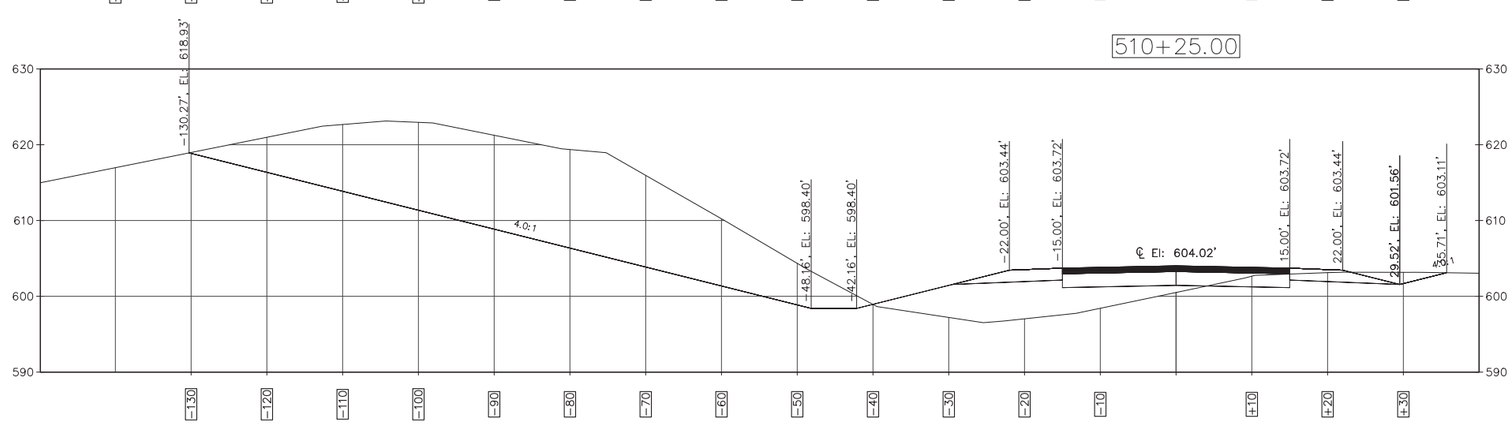
Total Volume at Station 509+75.00	
Cut Area (SF)	240.38
Fill Area (SF)	70.18
Cut Volume (CY)	169
Fill Volume (CY)	64



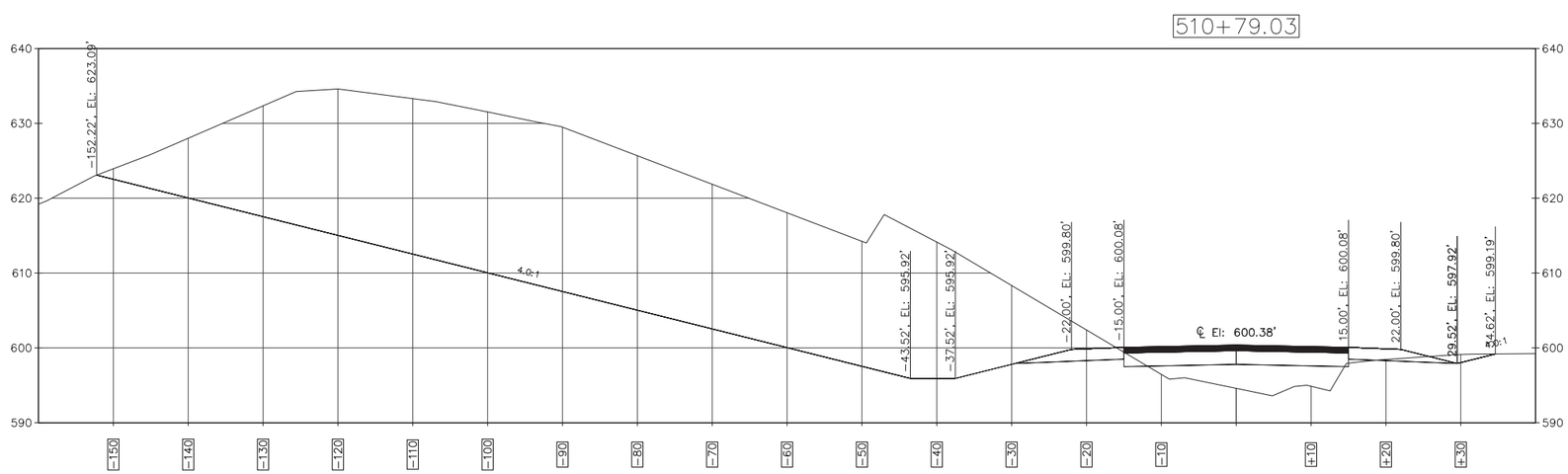
Total Volume at Station 510+75.00	
Cut Area (SF)	2087.65
Fill Area (SF)	67.33
Cut Volume (CY)	1598
Fill Volume (CY)	68



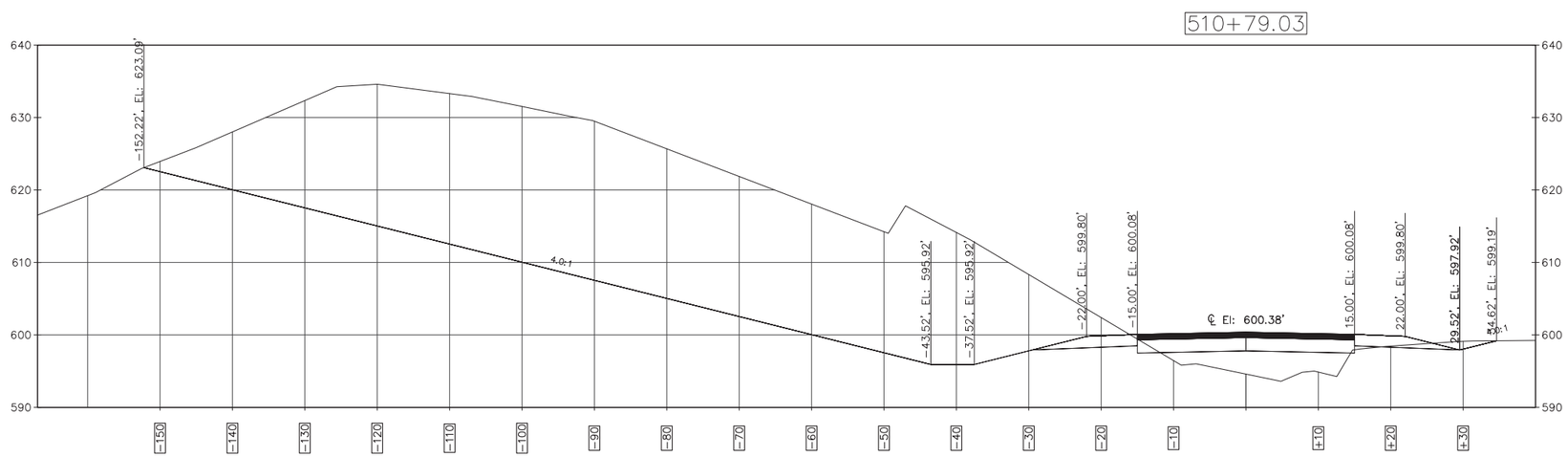
Total Volume at Station 510+50.00	
Cut Area (SF)	1364.50
Fill Area (SF)	79.68
Cut Volume (CY)	1011
Fill Volume (CY)	98



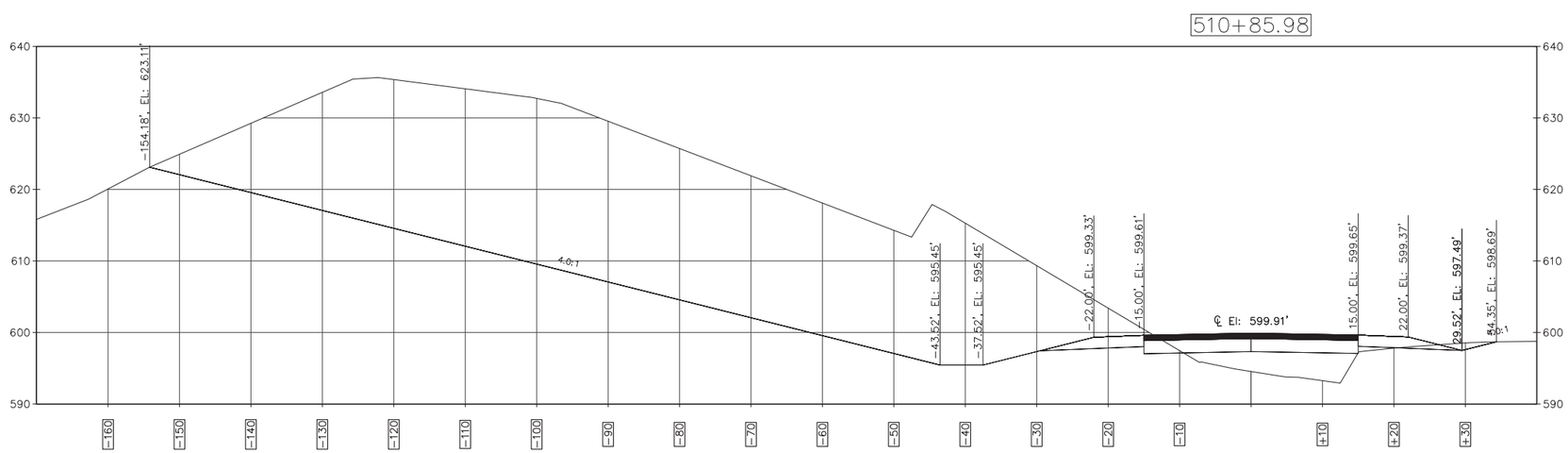
Total Volume at Station 510+25.00	
Cut Area (SF)	818.21
Fill Area (SF)	132.36
Cut Volume (CY)	180
Fill Volume (CY)	33



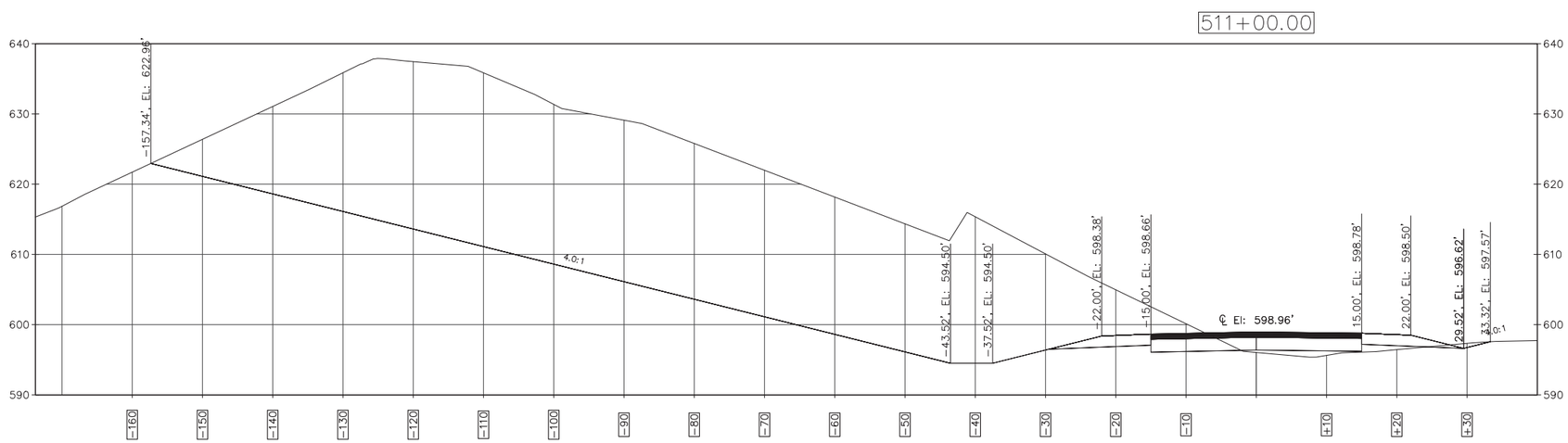
Total Volume at Station 510+79.03	
Cut Area (SF)	2182.10
Fill Area (SF)	68.46
Cut Volume (CY)	319
Fill Volume (CY)	10



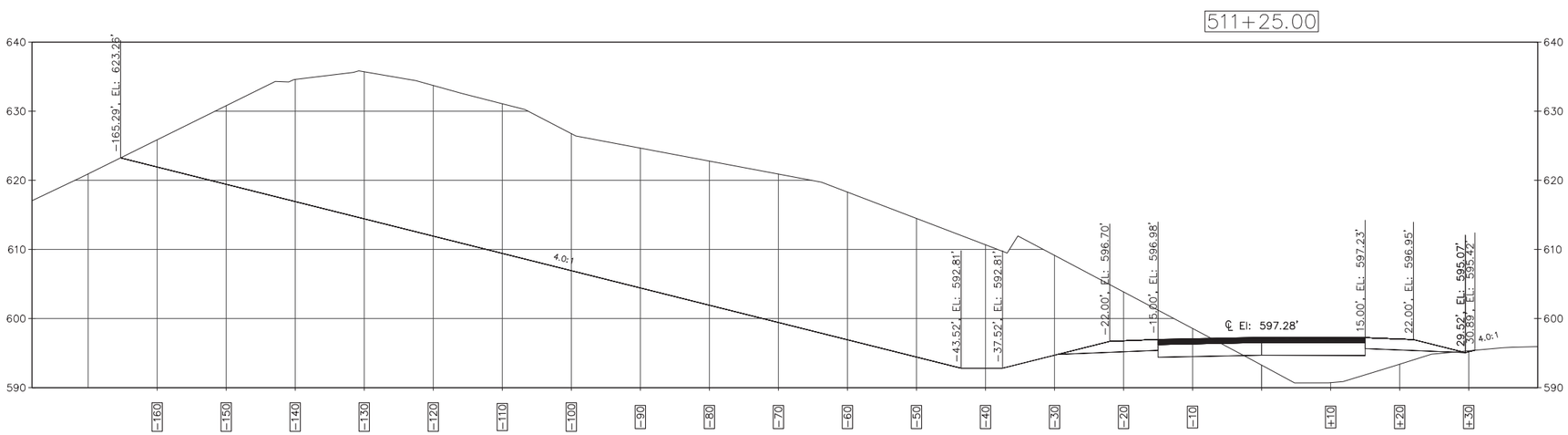
Total Volume at Station 510+79.03	
Cut Area (SF)	2182.14
Fill Area (SF)	68.46
Cut Volume (CY)	0
Fill Volume (CY)	0



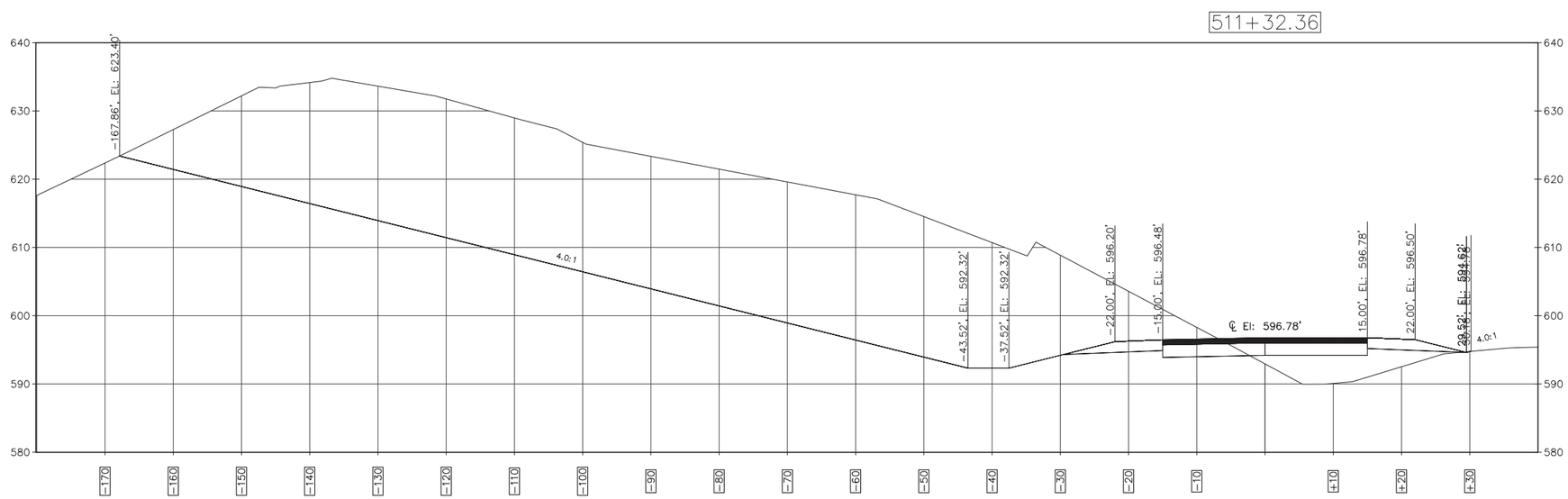
Total Volume at Station 510+85.98	
Cut Area (SF)	2339.06
Fill Area (SF)	67.39
Cut Volume (CY)	582
Fill Volume (CY)	17



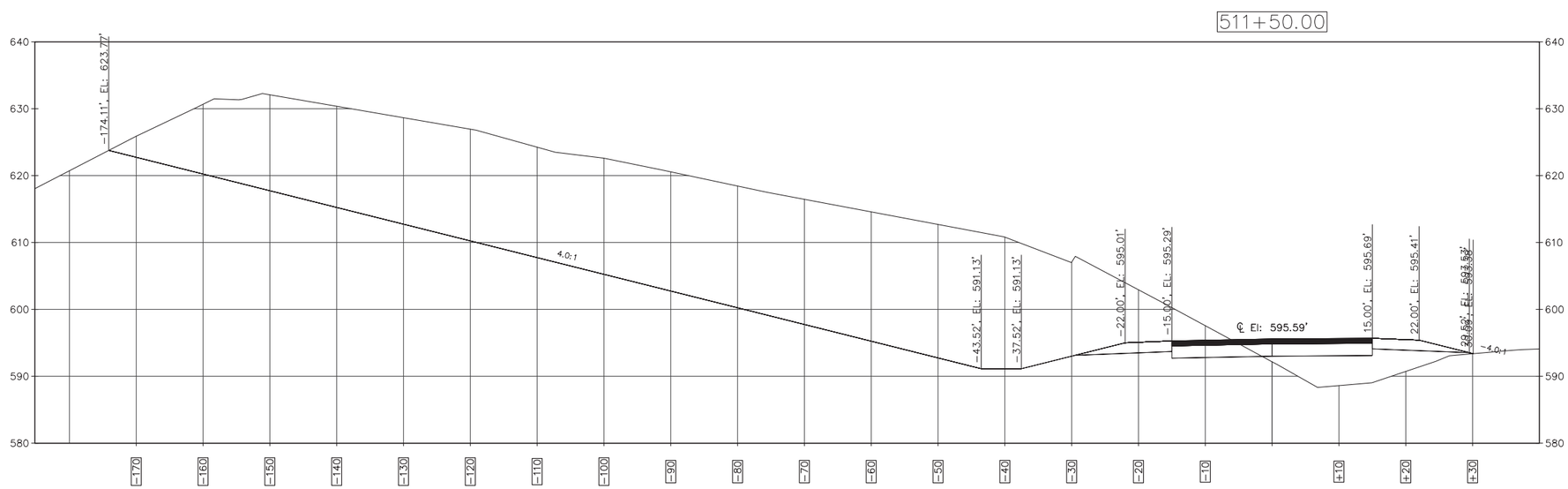
Total Volume at Station 511+00.00	
Cut Area (SF)	2586.34
Fill Area (SF)	14.23
Cut Volume (CY)	1279
Fill Volume (CY)	21



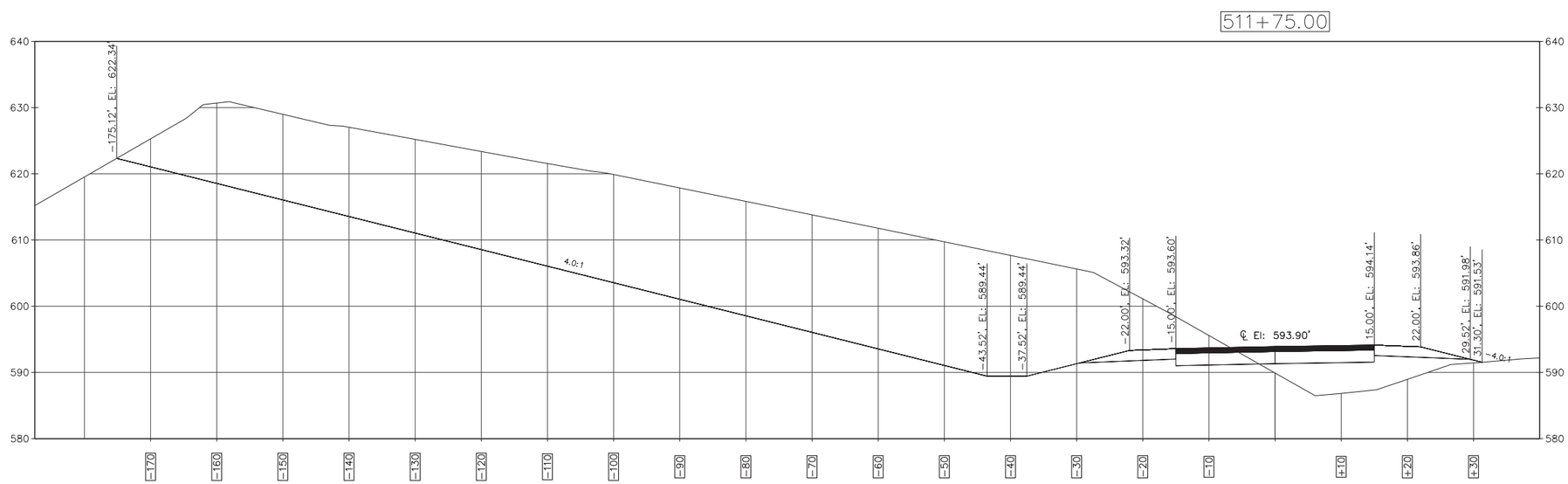
Total Volume at Station 511+25.00	
Cut Area (SF)	2670.21
Fill Area (SF)	74.20
Cut Volume (CY)	2434
Fill Volume (CY)	41



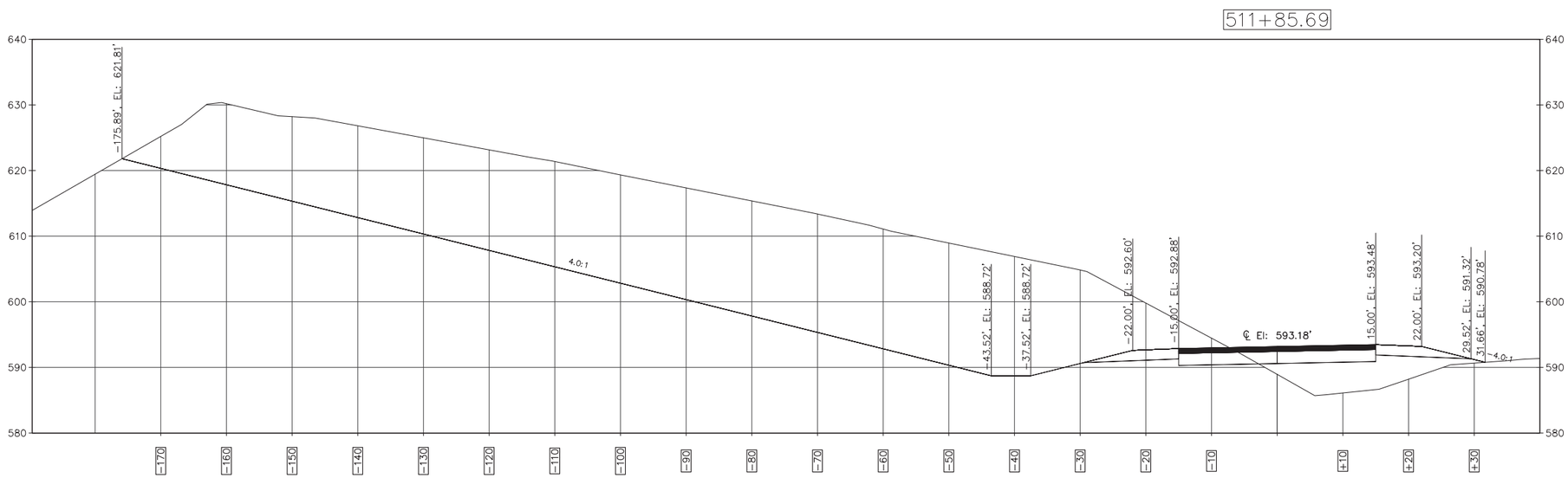
Total Volume at Station 511+32.36	
Cut Area (SF)	2646.51
Fill Area (SF)	80.15
Cut Volume (CY)	725
Fill Volume (CY)	21



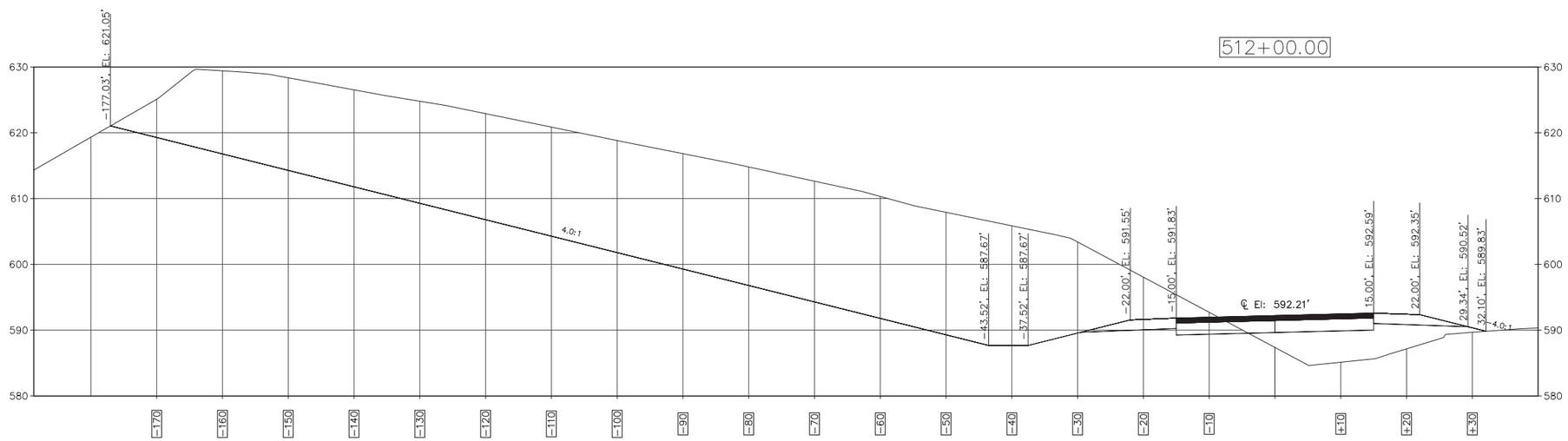
Total Volume at Station 511+50.00	
Cut Area (SF)	2512.13
Fill Area (SF)	89.97
Cut Volume (CY)	1685
Fill Volume (CY)	56



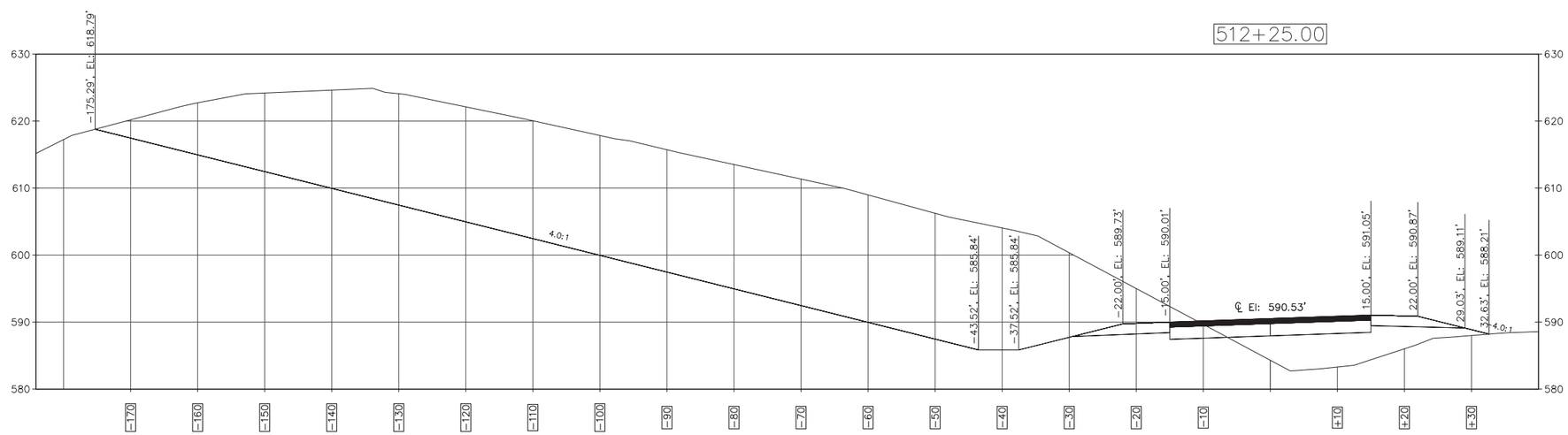
Total Volume at Station 511+75.00	
Cut Area (SF)	2382.16
Fill Area (SF)	100.54
Cut Volume (CY)	2266
Fill Volume (CY)	88



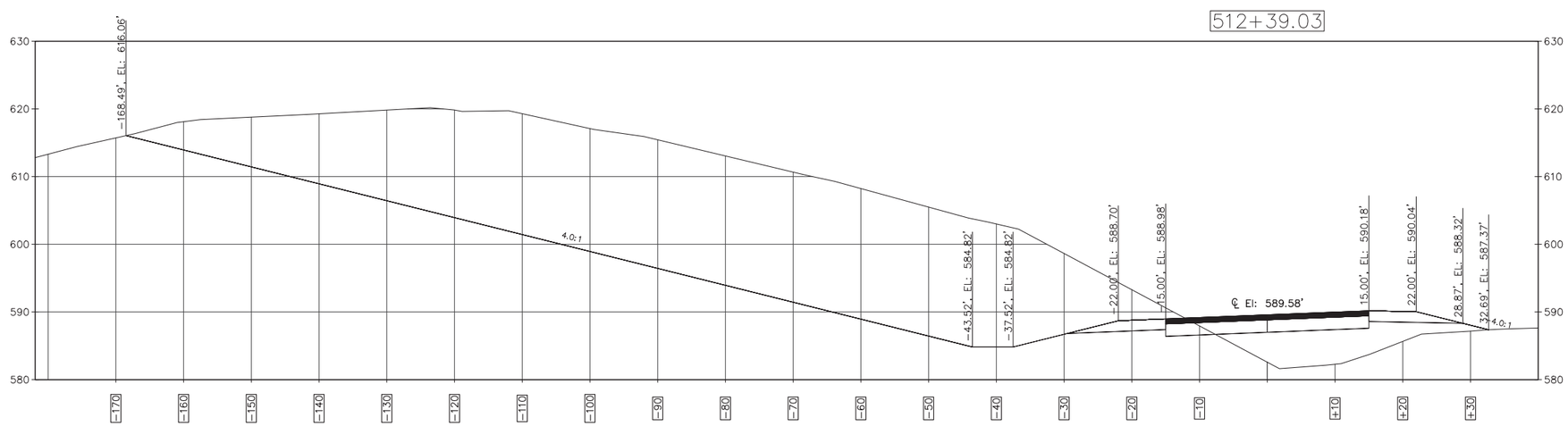
Total Volume at Station 511+85.69	
Cut Area (SF)	2409.16
Fill Area (SF)	104.83
Cut Volume (CY)	949
Fill Volume (CY)	41



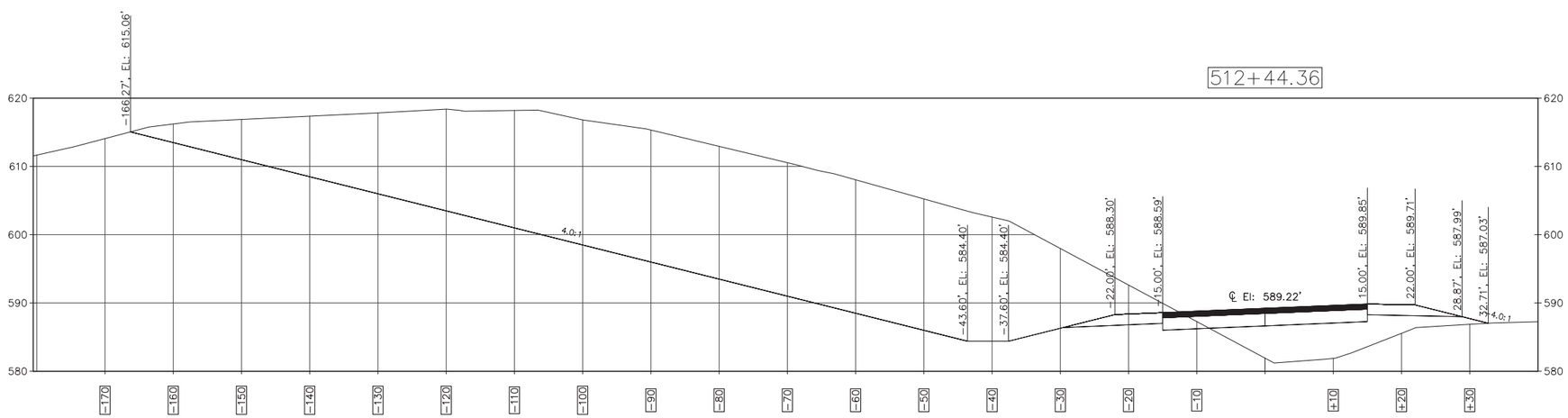
Total Volume at Station 512+00.00	
Cut Area (SF)	2472.02
Fill Area (SF)	114.01
Cut Volume (CY)	1293
Fill Volume (CY)	58



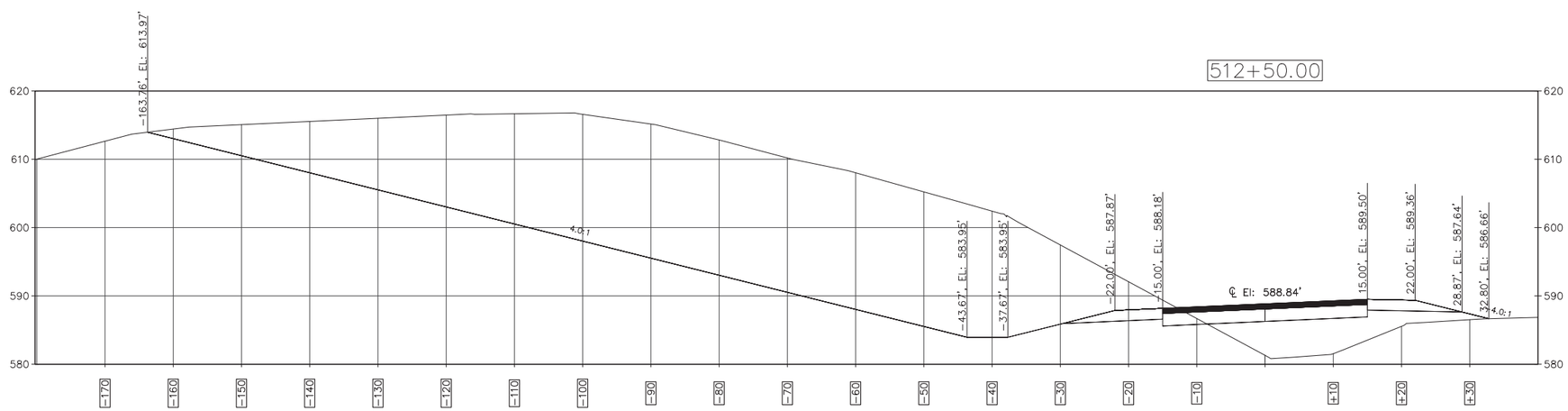
Total Volume at Station 512+25.00	
Cut Area (SF)	2394.65
Fill Area (SF)	125.67
Cut Volume (CY)	2253
Fill Volume (CY)	111



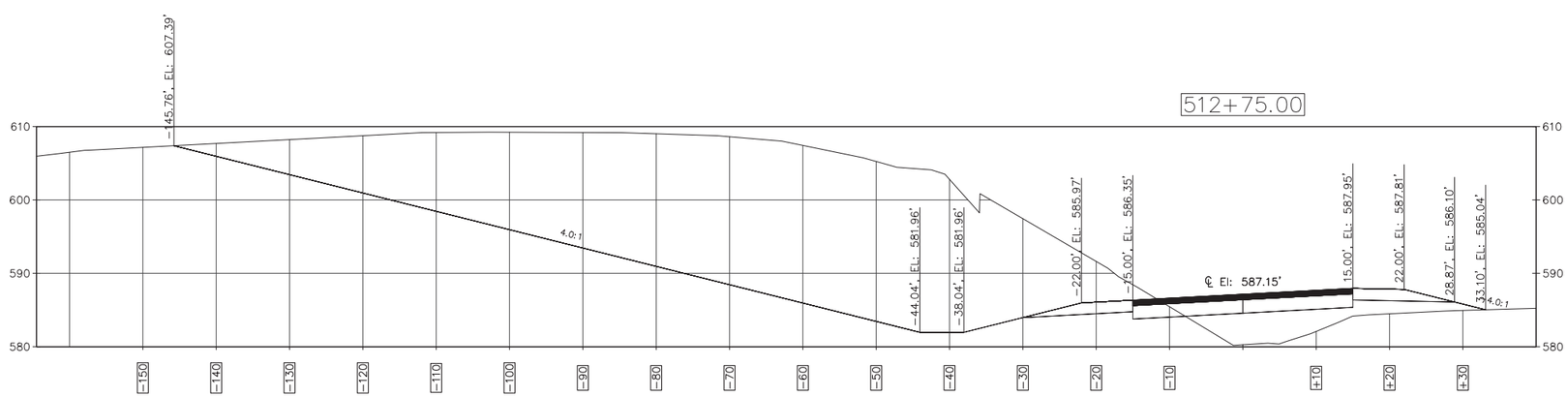
Total Volume at Station 512+39.03	
Cut Area (SF)	2208.20
Fill Area (SF)	129.38
Cut Volume (CY)	1196
Fill Volume (CY)	66



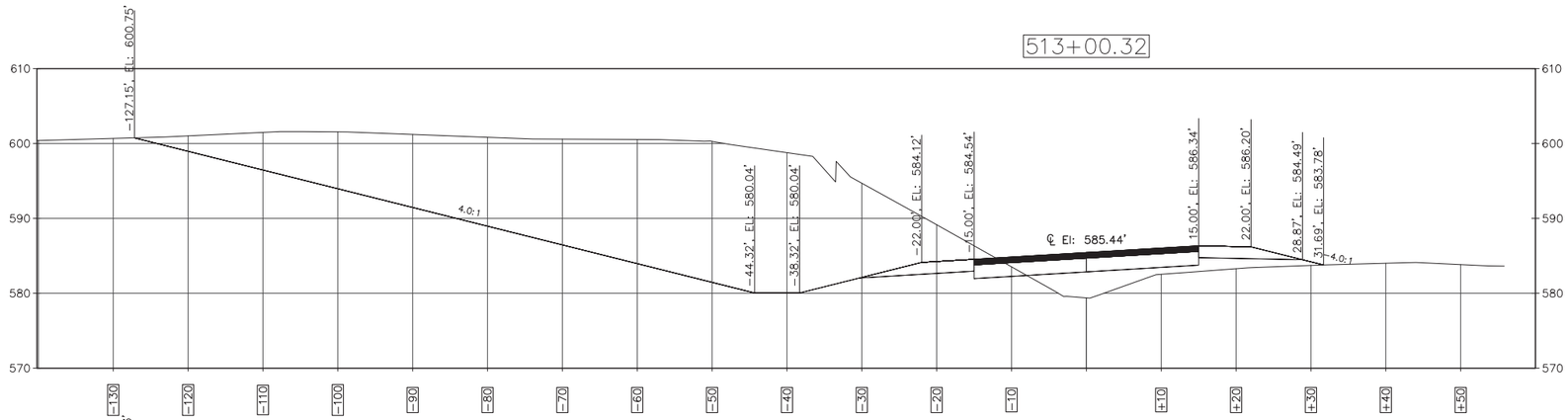
Total Volume at Station 512+44.36	
Cut Area (SF)	2137.31
Fill Area (SF)	129.88
Cut Volume (CY)	429
Fill Volume (CY)	26



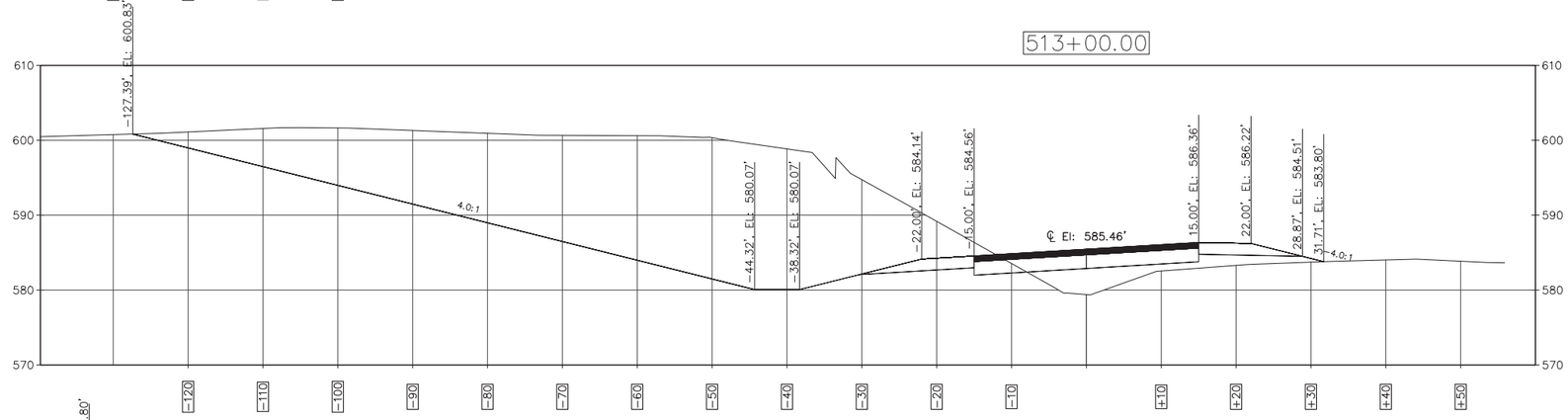
Total Volume at Station 512+50.00	
Cut Area (SF)	2076.10
Fill Area (SF)	129.07
Cut Volume (CY)	440
Fill Volume (CY)	27



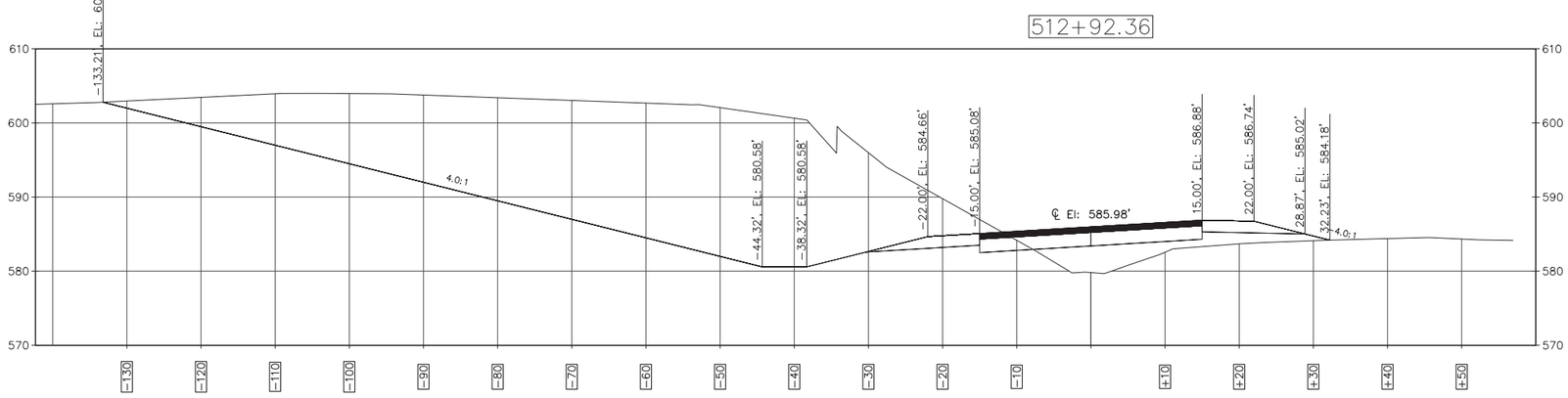
Total Volume at Station 512+75.00	
Cut Area (SF)	1781.39
Fill Area (SF)	96.08
Cut Volume (CY)	1786
Fill Volume (CY)	104



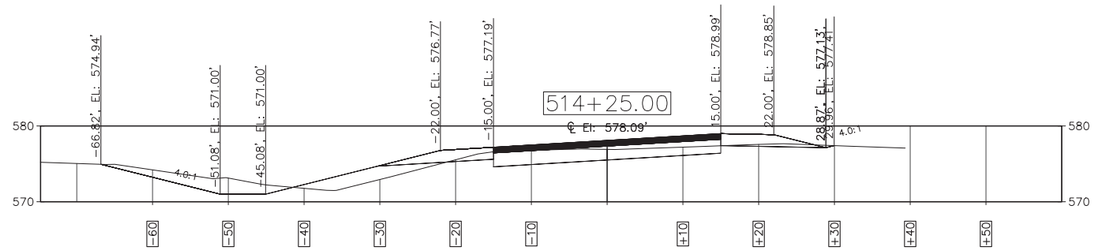
Total Volume at Station 513+00.32	
Cut Area (SF)	1248.81
Fill Area (SF)	62.68
Cut Volume (CY)	15
Fill Volume (CY)	1



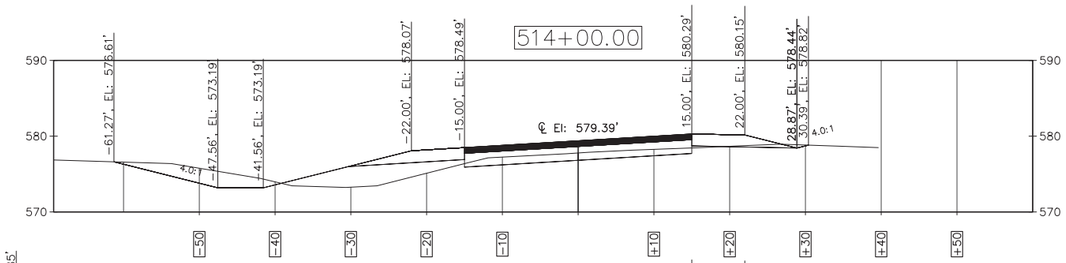
Total Volume at Station 513+00.00	
Cut Area (SF)	1255.35
Fill Area (SF)	63.07
Cut Volume (CY)	379
Fill Volume (CY)	19



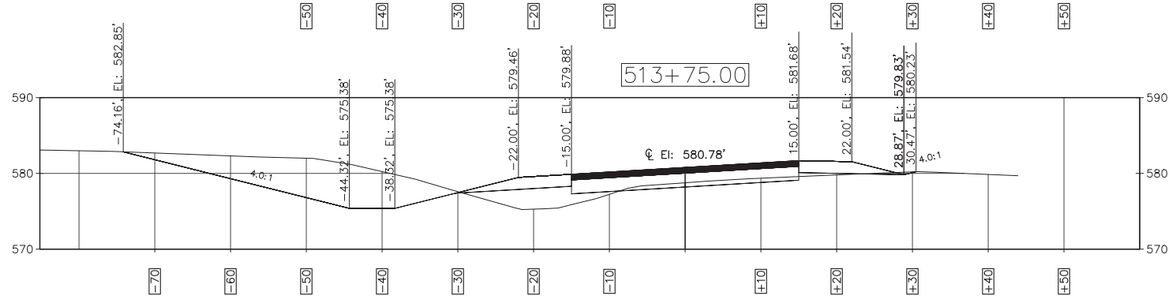
Total Volume at Station 512+92.36	
Cut Area (SF)	1422.63
Fill Area (SF)	72.95
Cut Volume (CY)	1030
Fill Volume (CY)	54



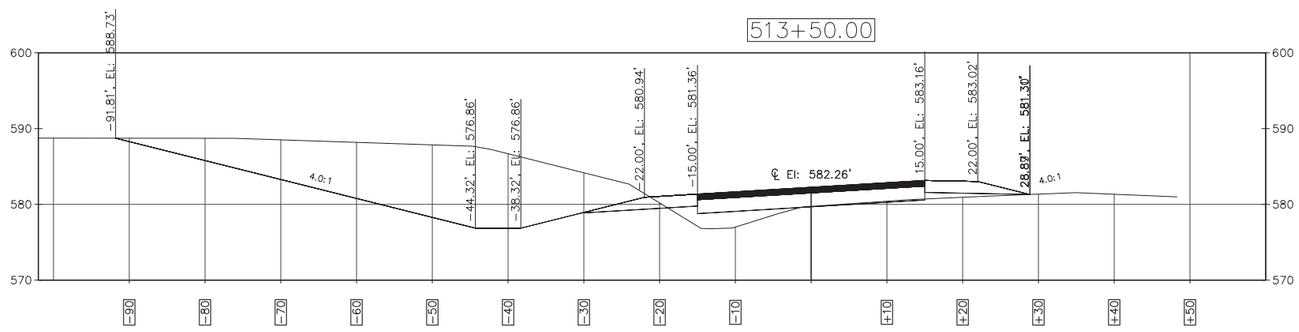
Total Volume at Station 514+25.00	
Cut Area (SF)	81.11
Fill Area (SF)	39.27
Cut Volume (CY)	65
Fill Volume (CY)	41



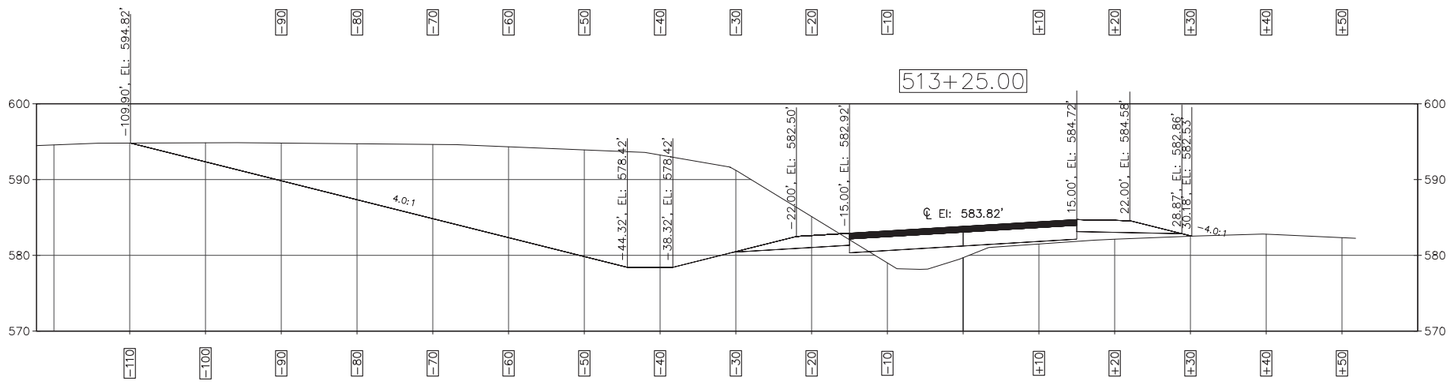
Total Volume at Station 514+00.00	
Cut Area (SF)	59.94
Fill Area (SF)	50.08
Cut Volume (CY)	101
Fill Volume (CY)	43



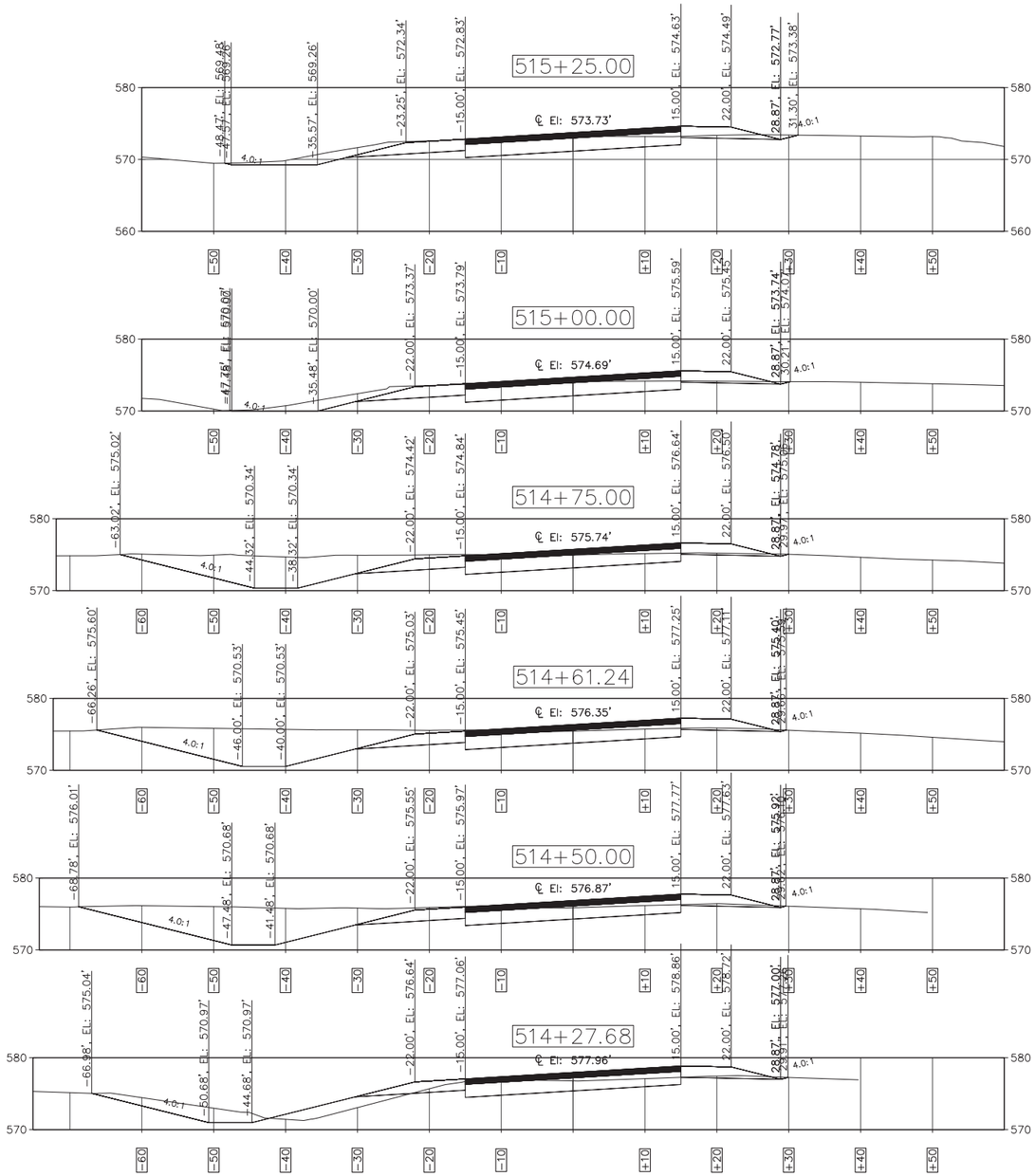
Total Volume at Station 513+75.00	
Cut Area (SF)	157.80
Fill Area (SF)	42.61
Cut Volume (CY)	269
Fill Volume (CY)	39



Total Volume at Station 513+50.00	
Cut Area (SF)	422.80
Fill Area (SF)	41.61
Cut Volume (CY)	569
Fill Volume (CY)	40



Total Volume at Station 513+25.00	
Cut Area (SF)	805.43
Fill Area (SF)	44.27
Cut Volume (CY)	939
Fill Volume (CY)	49



Total Volume at Station 515+25.00	
Cut Area (SF)	103.77
Fill Area (SF)	16.57
Cut Volume (CY)	93
Fill Volume (CY)	12

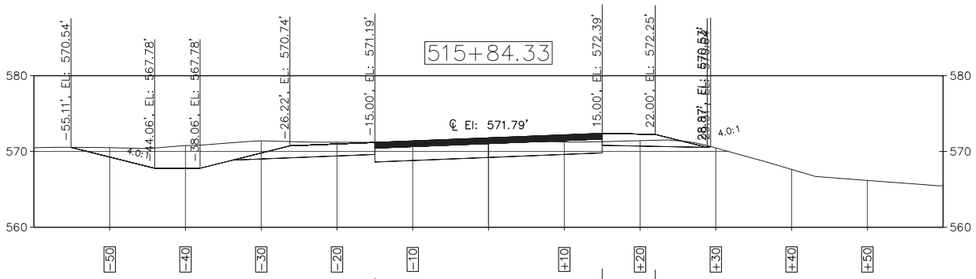
Total Volume at Station 515+00.00	
Cut Area (SF)	97.80
Fill Area (SF)	9.78
Cut Volume (CY)	133
Fill Volume (CY)	5

Total Volume at Station 514+75.00	
Cut Area (SF)	189.46
Fill Area (SF)	0.00
Cut Volume (CY)	104
Fill Volume (CY)	0

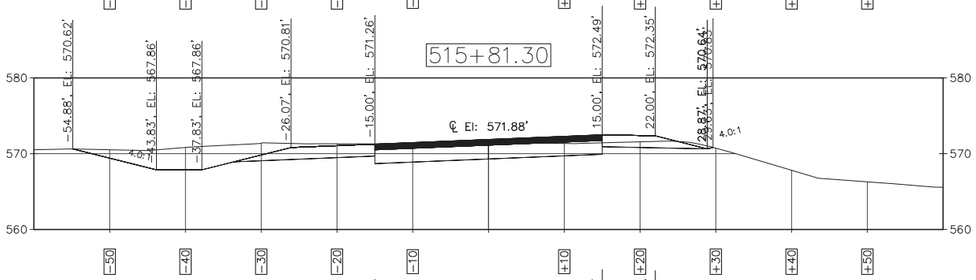
Total Volume at Station 514+61.24	
Cut Area (SF)	216.81
Fill Area (SF)	0.00
Cut Volume (CY)	90
Fill Volume (CY)	0

Total Volume at Station 514+50.00	
Cut Area (SF)	217.02
Fill Area (SF)	0.00
Cut Volume (CY)	126
Fill Volume (CY)	15

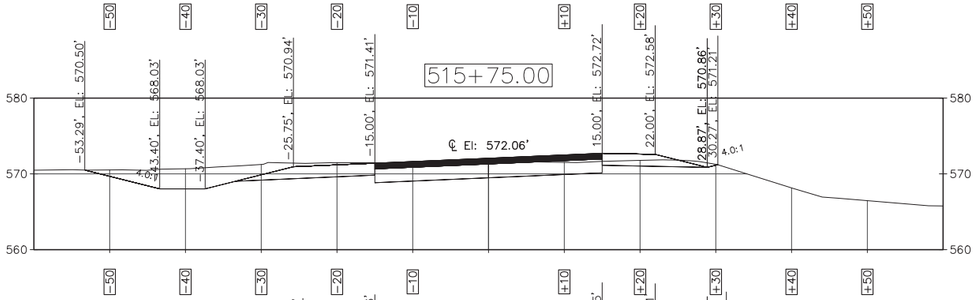
Total Volume at Station 514+27.68	
Cut Area (SF)	86.96
Fill Area (SF)	36.93
Cut Volume (CY)	8
Fill Volume (CY)	4



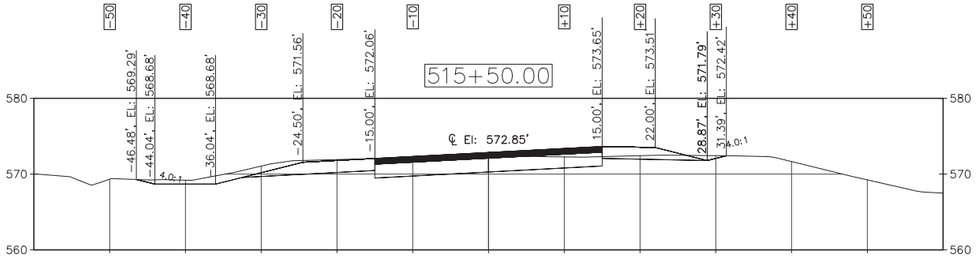
Total Volume at Station 515+84.33	
Cut Area (SF)	153.31
Fill Area (SF)	5.34
Cut Volume (CY)	17
Fill Volume (CY)	1



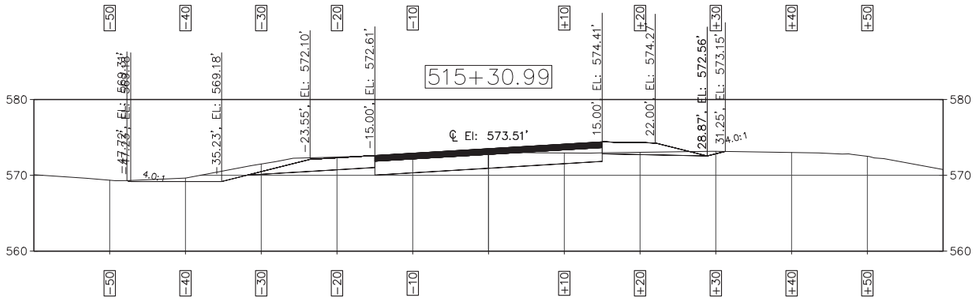
Total Volume at Station 515+81.30	
Cut Area (SF)	152.88
Fill Area (SF)	4.32
Cut Volume (CY)	35
Fill Volume (CY)	1



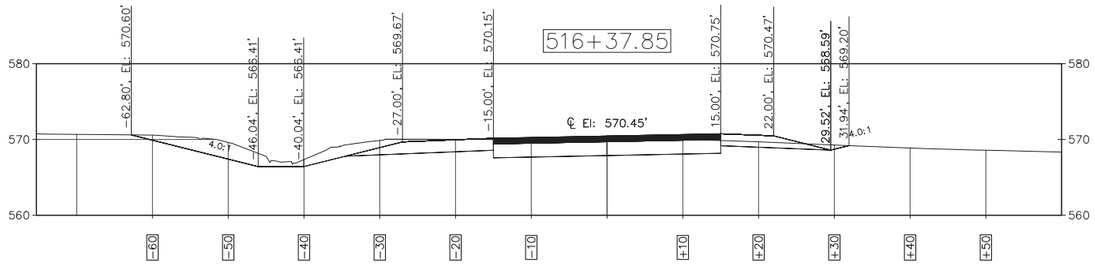
Total Volume at Station 515+75.00	
Cut Area (SF)	146.97
Fill Area (SF)	3.03
Cut Volume (CY)	117
Fill Volume (CY)	8



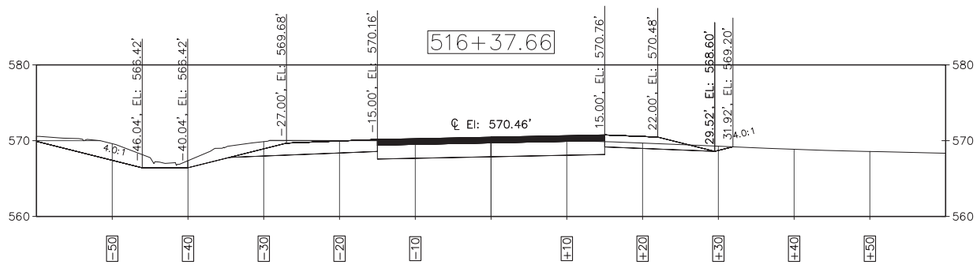
Total Volume at Station 515+50.00	
Cut Area (SF)	106.13
Fill Area (SF)	13.70
Cut Volume (CY)	73
Fill Volume (CY)	11



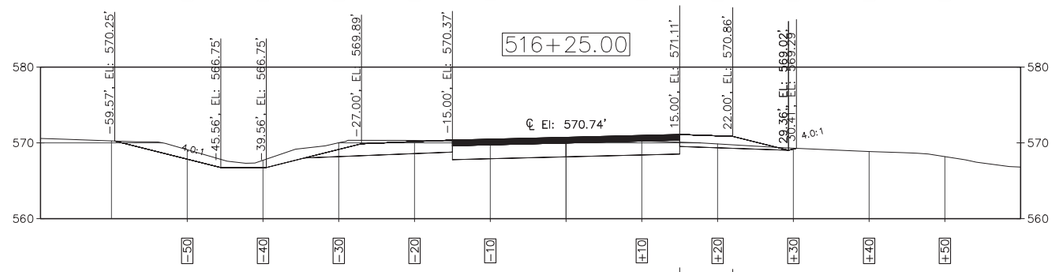
Total Volume at Station 515+30.99	
Cut Area (SF)	102.50
Fill Area (SF)	16.55
Cut Volume (CY)	23
Fill Volume (CY)	4



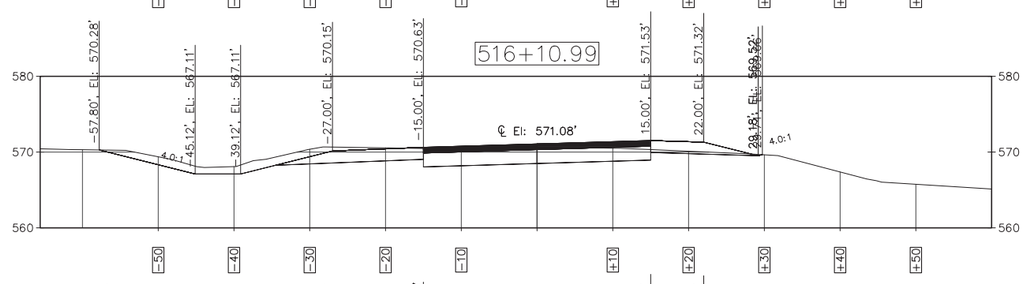
Total Volume at Station 516+37.85	
Cut Area (SF)	185.43
Fill Area (SF)	0.00
Cut Volume (CY)	1
Fill Volume (CY)	0



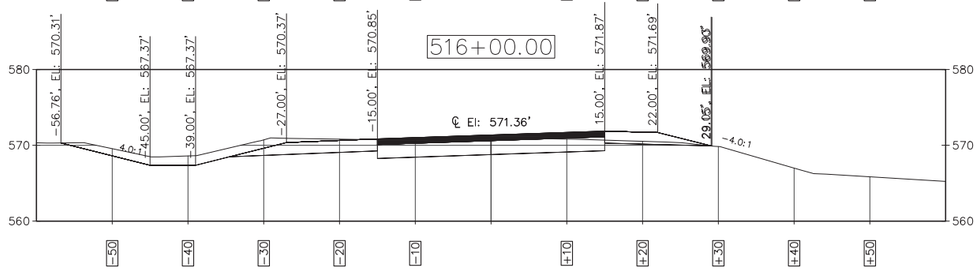
Total Volume at Station 516+37.66	
Cut Area (SF)	184.19
Fill Area (SF)	0.00
Cut Volume (CY)	80
Fill Volume (CY)	0



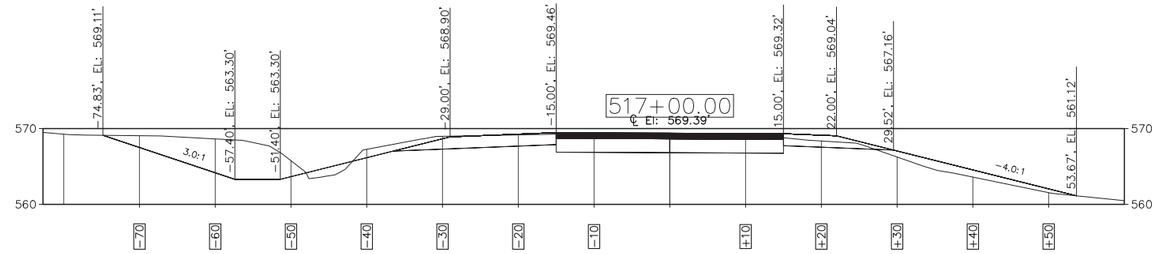
Total Volume at Station 516+25.00	
Cut Area (SF)	155.31
Fill Area (SF)	0.14
Cut Volume (CY)	73
Fill Volume (CY)	0



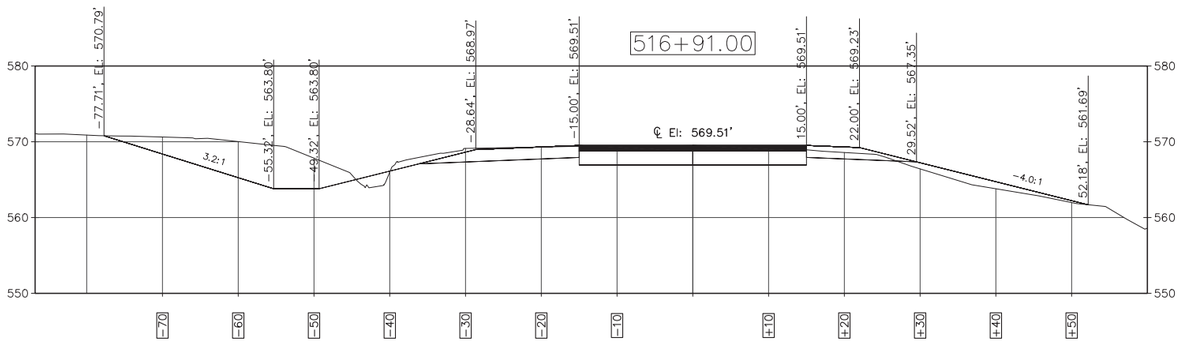
Total Volume at Station 516+10.99	
Cut Area (SF)	124.53
Fill Area (SF)	0.41
Cut Volume (CY)	50
Fill Volume (CY)	1



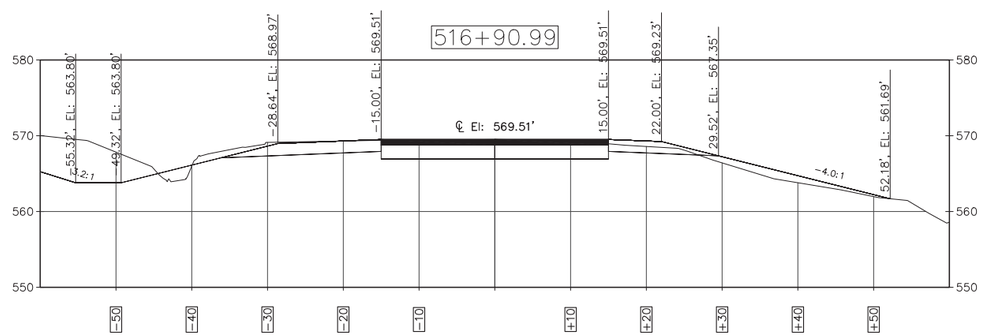
Total Volume at Station 516+00.00	
Cut Area (SF)	123.55
Fill Area (SF)	5.57
Cut Volume (CY)	80
Fill Volume (CY)	3



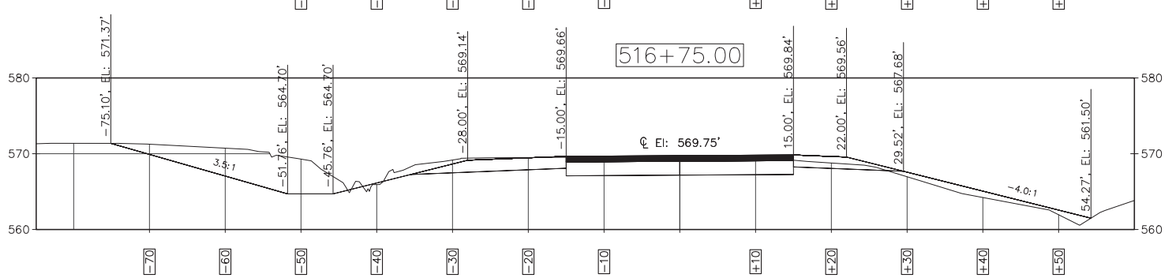
Total Volume at Station 517+00.00	
Cut Area (SF)	205.07
Fill Area (SF)	25.61
Cut Volume (CY)	73
Fill Volume (CY)	8



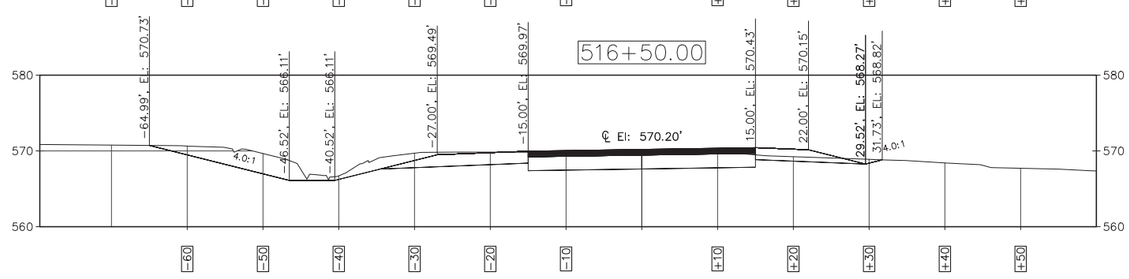
Total Volume at Station 516+91.00	
Cut Area (SF)	230.33
Fill Area (SF)	22.90
Cut Volume (CY)	0
Fill Volume (CY)	0



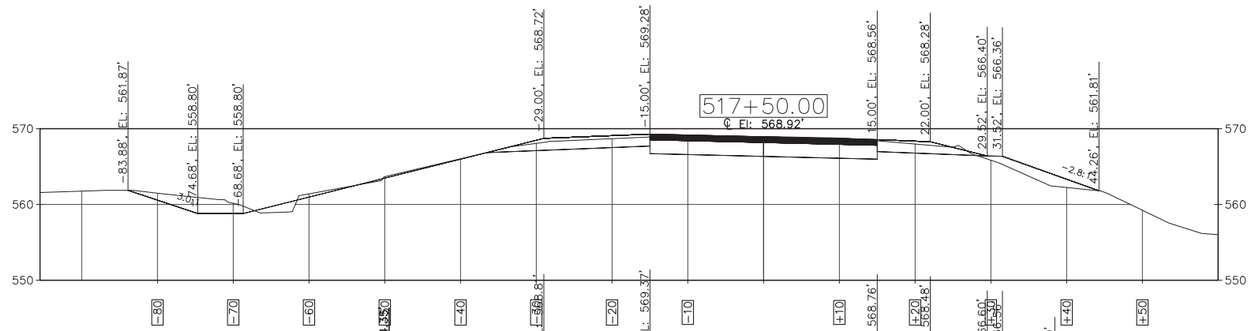
Total Volume at Station 516+90.99	
Cut Area (SF)	182.57
Fill Area (SF)	22.89
Cut Volume (CY)	116
Fill Volume (CY)	13



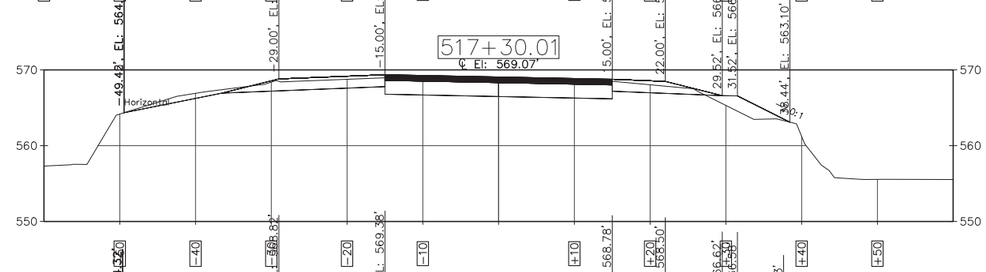
Total Volume at Station 516+75.00	
Cut Area (SF)	207.57
Fill Area (SF)	19.50
Cut Volume (CY)	188
Fill Volume (CY)	9



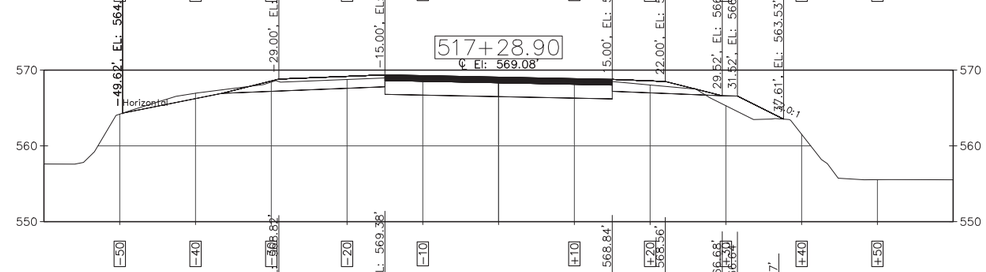
Total Volume at Station 516+50.00	
Cut Area (SF)	197.87
Fill Area (SF)	0.10
Cut Volume (CY)	86
Fill Volume (CY)	0



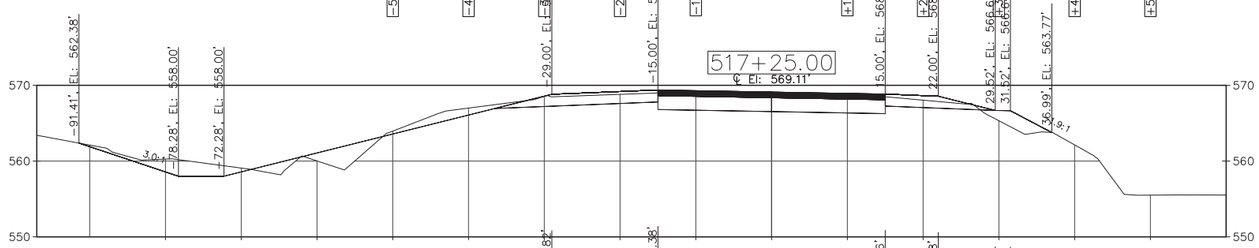
Total Volume at Station 517+50.00	
Cut Area (SF)	136.04
Fill Area (SF)	33.94
Cut Volume (CY)	93
Fill Volume (CY)	53



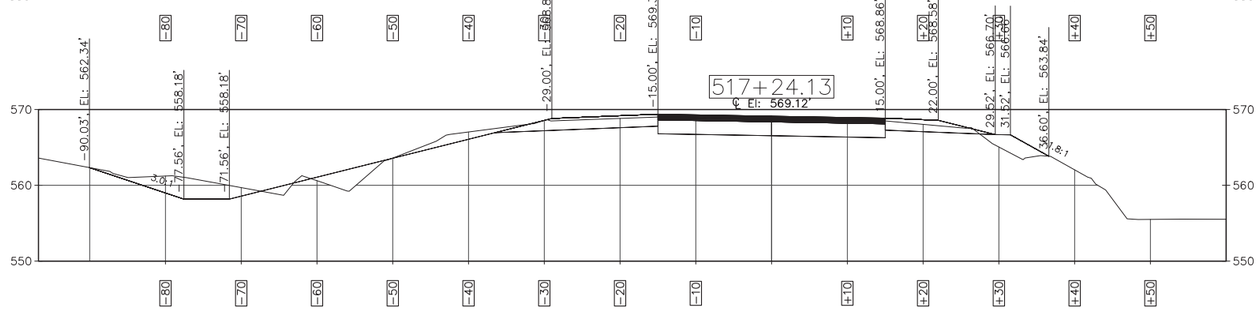
Total Volume at Station 517+30.01	
Cut Area (SF)	115.11
Fill Area (SF)	110.05
Cut Volume (CY)	5
Fill Volume (CY)	4



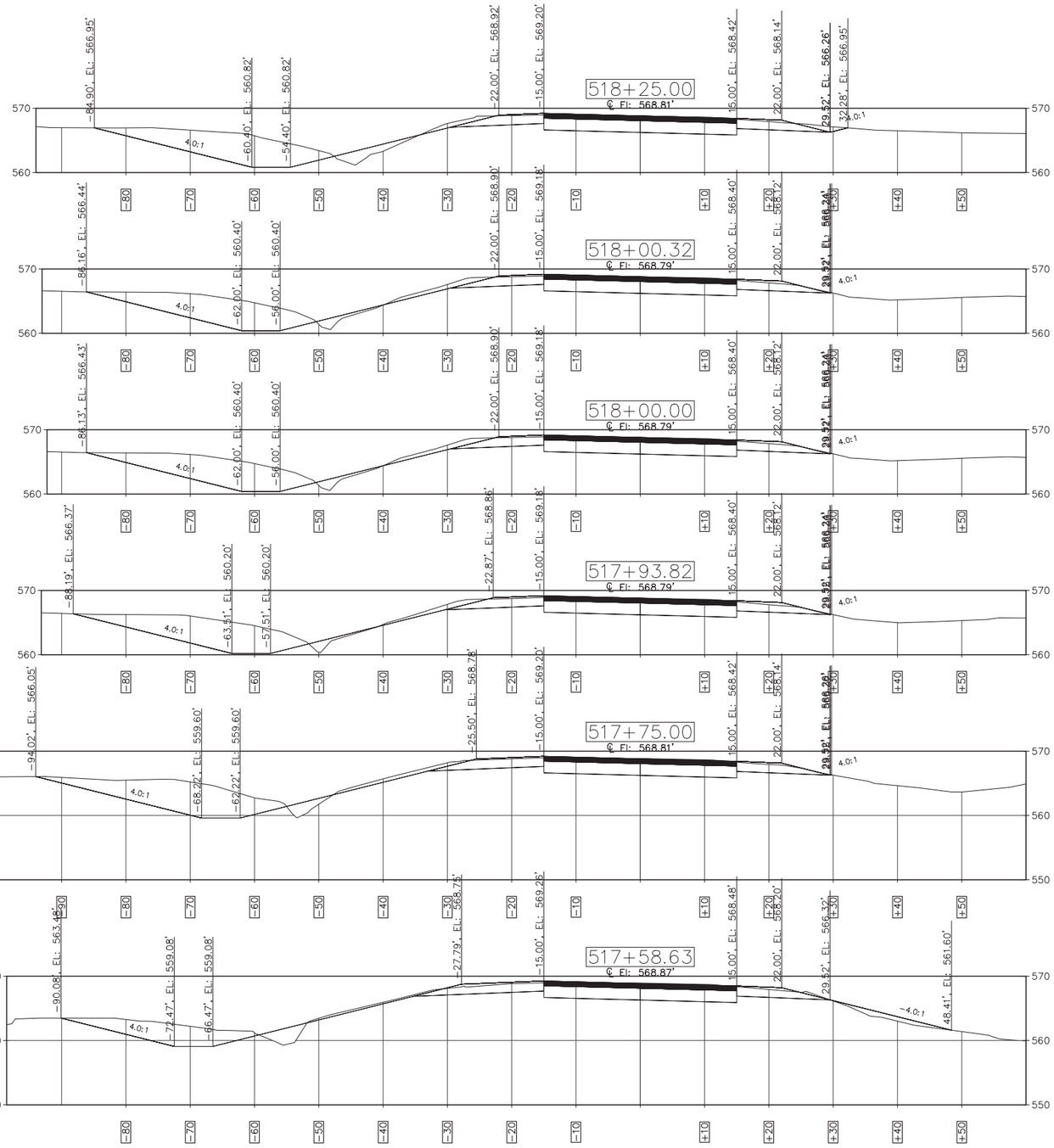
Total Volume at Station 517+28.90	
Cut Area (SF)	115.63
Fill Area (SF)	106.02
Cut Volume (CY)	19
Fill Volume (CY)	14



Total Volume at Station 517+25.00	
Cut Area (SF)	143.73
Fill Area (SF)	83.59
Cut Volume (CY)	5
Fill Volume (CY)	3



Total Volume at Station 517+24.13	
Cut Area (SF)	151.55
Fill Area (SF)	79.80
Cut Volume (CY)	159
Fill Volume (CY)	47



Total Volume at Station 518+25.00	
Cut Area (SF)	232.61
Fill Area (SF)	13.38
Cut Volume (CY)	209
Fill Volume (CY)	9

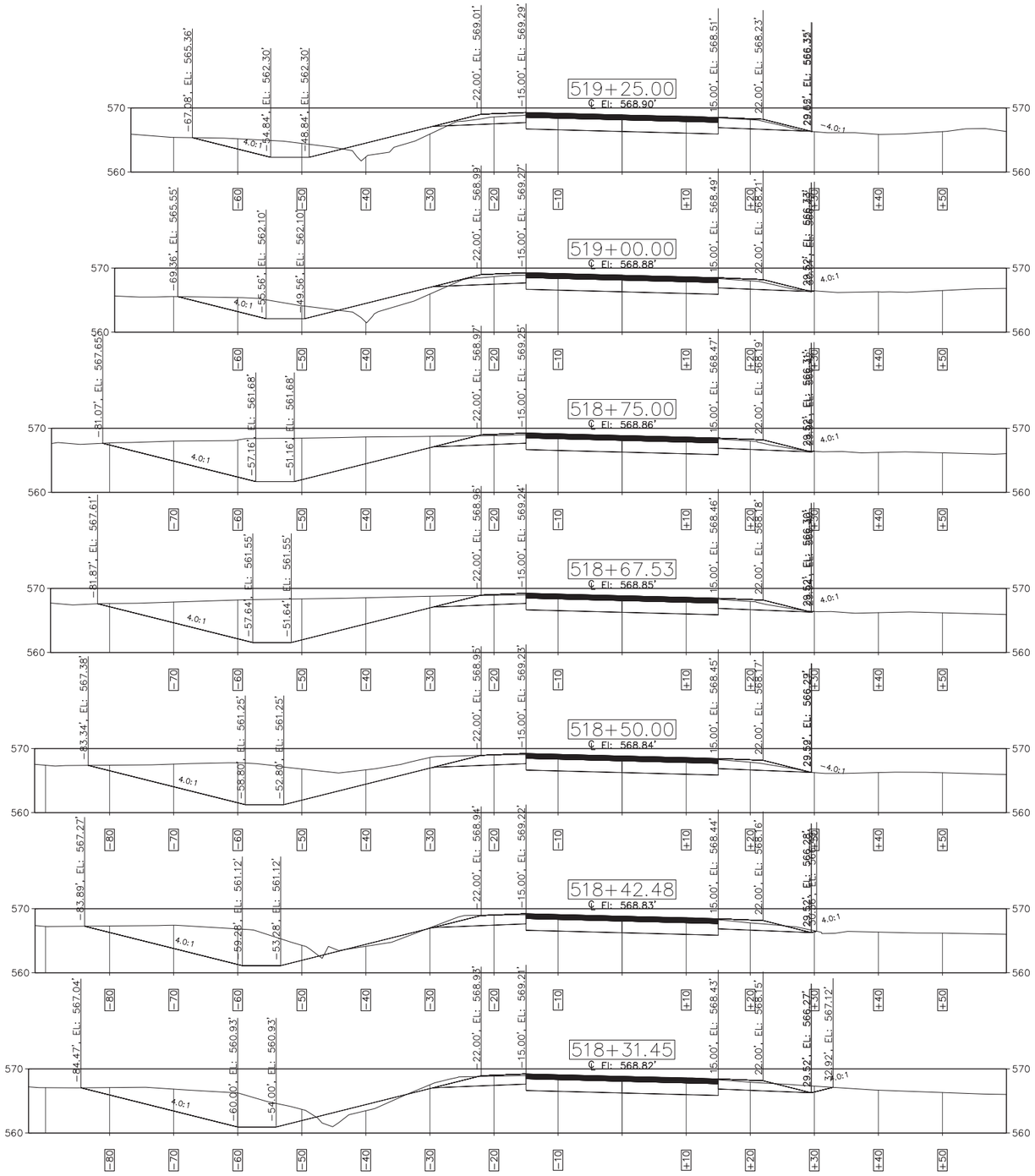
Total Volume at Station 518+00.32	
Cut Area (SF)	223.85
Fill Area (SF)	6.99
Cut Volume (CY)	3
Fill Volume (CY)	0

Total Volume at Station 518+00.00	
Cut Area (SF)	223.57
Fill Area (SF)	6.78
Cut Volume (CY)	52
Fill Volume (CY)	1

Total Volume at Station 517+93.82	
Cut Area (SF)	230.91
Fill Area (SF)	5.29
Cut Volume (CY)	167
Fill Volume (CY)	5

Total Volume at Station 517+75.00	
Cut Area (SF)	249.48
Fill Area (SF)	8.47
Cut Volume (CY)	131
Fill Volume (CY)	10

Total Volume at Station 517+58.63	
Cut Area (SF)	182.88
Fill Area (SF)	23.39
Cut Volume (CY)	51
Fill Volume (CY)	9



Total Volume at Station 519+25.00	
Cut Area (SF)	136.64
Fill Area (SF)	29.76
Cut Volume (CY)	129
Fill Volume (CY)	28

Total Volume at Station 519+00.00	
Cut Area (SF)	142.59
Fill Area (SF)	31.03
Cut Volume (CY)	215
Fill Volume (CY)	14

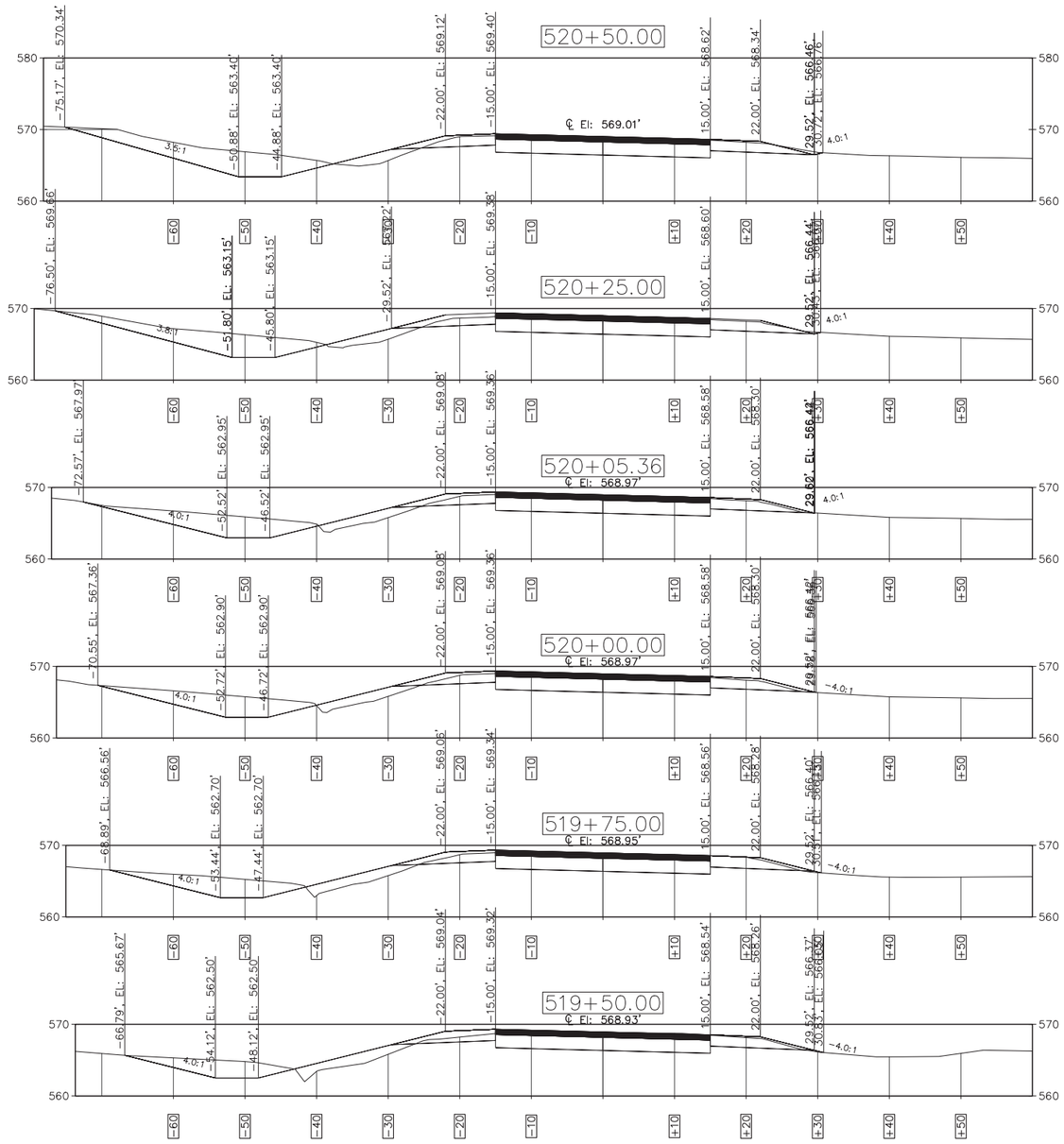
Total Volume at Station 518+75.00	
Cut Area (SF)	322.23
Fill Area (SF)	0.00
Cut Volume (CY)	90
Fill Volume (CY)	0

Total Volume at Station 518+67.53	
Cut Area (SF)	327.48
Fill Area (SF)	0.07
Cut Volume (CY)	204
Fill Volume (CY)	0

Total Volume at Station 518+50.00	
Cut Area (SF)	300.01
Fill Area (SF)	1.15
Cut Volume (CY)	75
Fill Volume (CY)	1

Total Volume at Station 518+42.48	
Cut Area (SF)	238.16
Fill Area (SF)	5.79
Cut Volume (CY)	97
Fill Volume (CY)	4

Total Volume at Station 518+31.45	
Cut Area (SF)	236.59
Fill Area (SF)	13.54
Cut Volume (CY)	56
Fill Volume (CY)	3



Total Volume at Station 520+50.00	
Cut Area (SF)	181.42
Fill Area (SF)	11.52
Cut Volume (CY)	162
Fill Volume (CY)	11

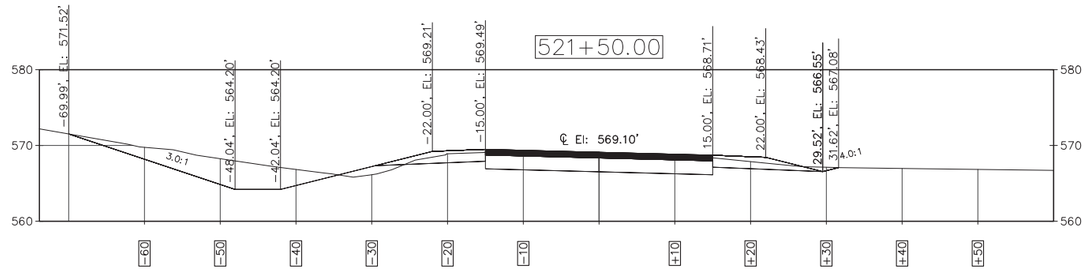
Total Volume at Station 520+25.00	
Cut Area (SF)	167.75
Fill Area (SF)	12.73
Cut Volume (CY)	118
Fill Volume (CY)	10

Total Volume at Station 520+05.36	
Cut Area (SF)	155.47
Fill Area (SF)	14.82
Cut Volume (CY)	31
Fill Volume (CY)	3

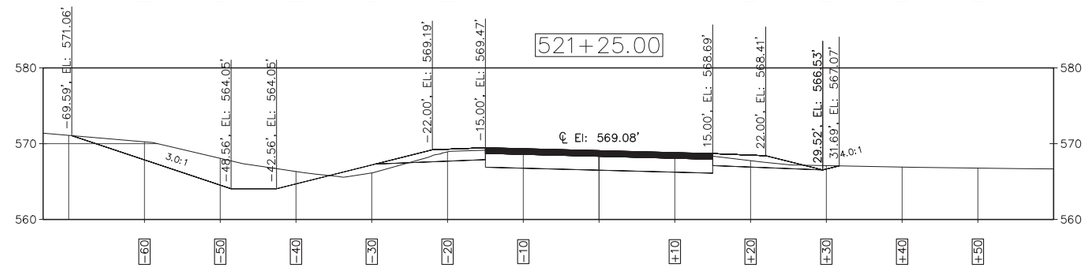
Total Volume at Station 520+00.00	
Cut Area (SF)	152.89
Fill Area (SF)	15.56
Cut Volume (CY)	138
Fill Volume (CY)	16

Total Volume at Station 519+75.00	
Cut Area (SF)	145.07
Fill Area (SF)	18.58
Cut Volume (CY)	128
Fill Volume (CY)	19

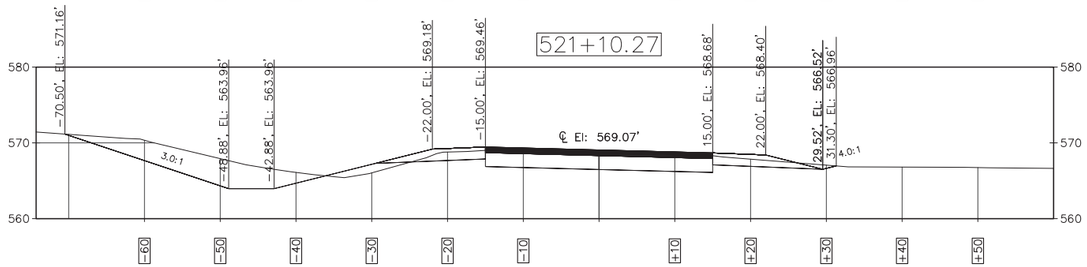
Total Volume at Station 519+50.00	
Cut Area (SF)	132.25
Fill Area (SF)	22.53
Cut Volume (CY)	124
Fill Volume (CY)	24



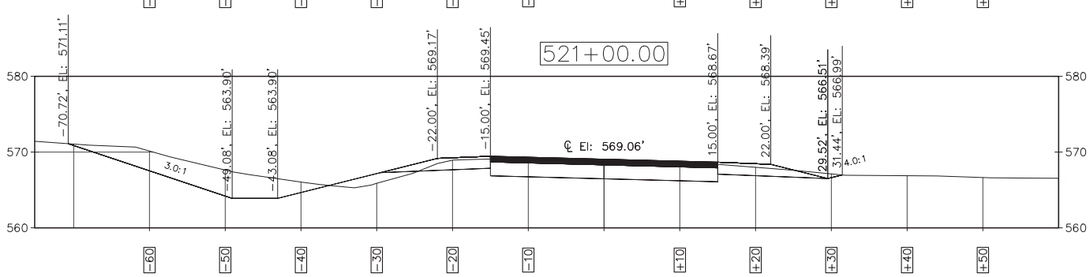
Total Volume at Station 521+50.00	
Cut Area (SF)	168.76
Fill Area (SF)	6.01
Cut Volume (CY)	157
Fill Volume (CY)	6



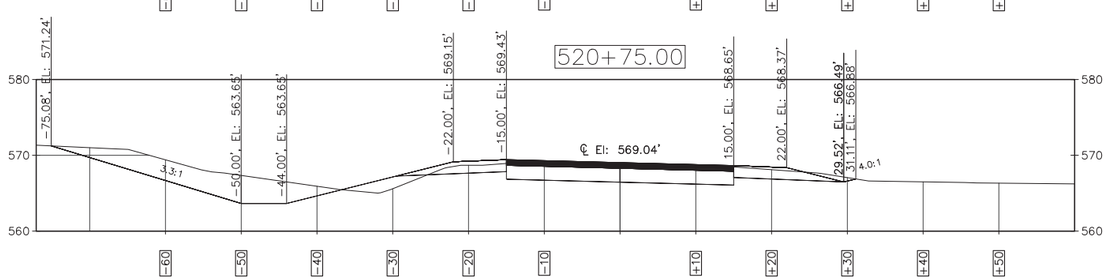
Total Volume at Station 521+25.00	
Cut Area (SF)	171.04
Fill Area (SF)	6.72
Cut Volume (CY)	94
Fill Volume (CY)	4



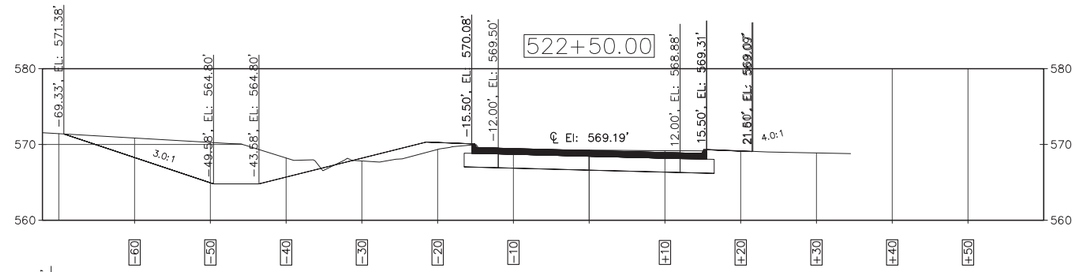
Total Volume at Station 521+10.27	
Cut Area (SF)	172.30
Fill Area (SF)	7.94
Cut Volume (CY)	66
Fill Volume (CY)	3



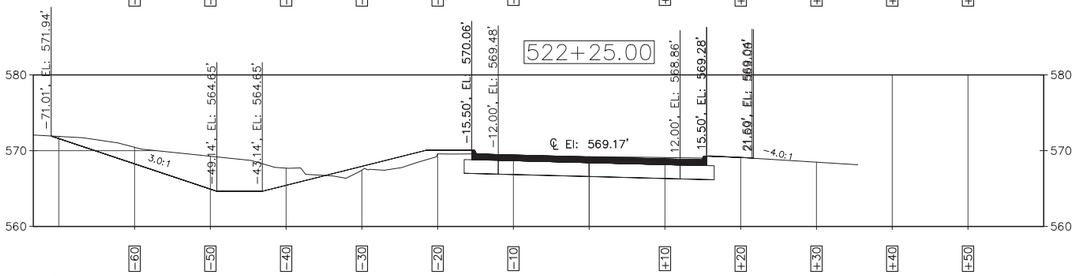
Total Volume at Station 521+00.00	
Cut Area (SF)	174.93
Fill Area (SF)	9.61
Cut Volume (CY)	168
Fill Volume (CY)	10



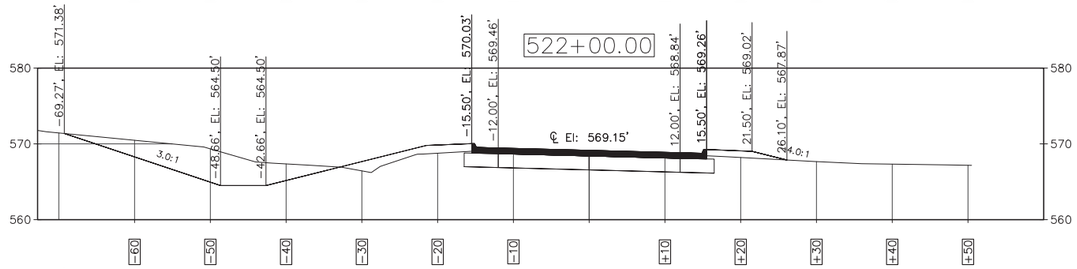
Total Volume at Station 520+75.00	
Cut Area (SF)	187.65
Fill Area (SF)	10.92
Cut Volume (CY)	171
Fill Volume (CY)	10



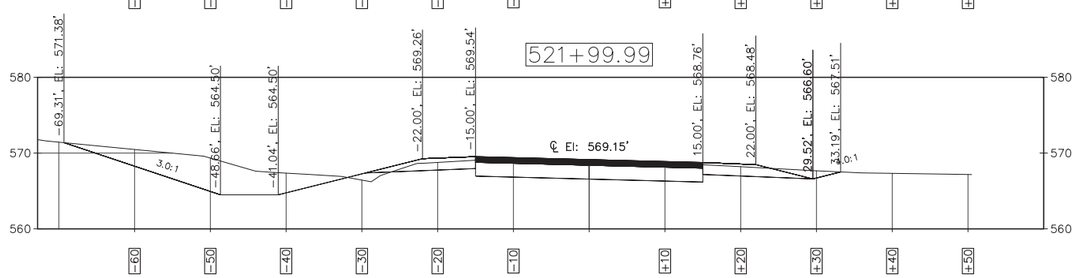
Total Volume at Station 522+50.00	
Cut Area (SF)	195.85
Fill Area (SF)	14.03
Cut Volume (CY)	174
Fill Volume (CY)	14



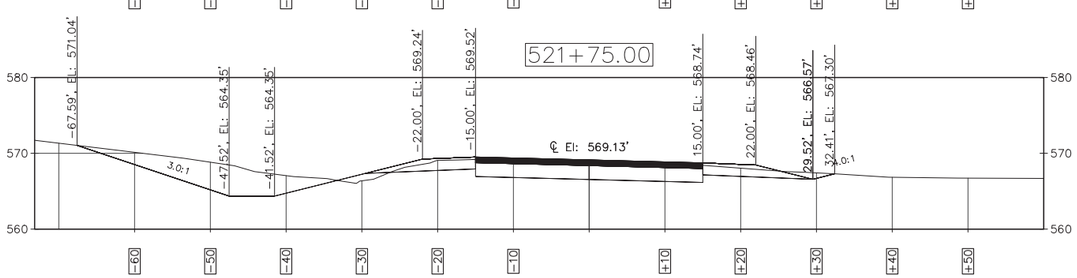
Total Volume at Station 522+25.00	
Cut Area (SF)	179.27
Fill Area (SF)	16.14
Cut Volume (CY)	162
Fill Volume (CY)	18



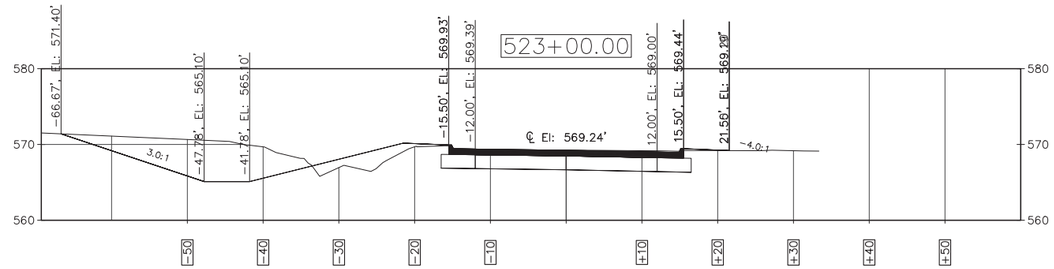
Total Volume at Station 522+00.00	
Cut Area (SF)	171.35
Fill Area (SF)	23.39
Cut Volume (CY)	0
Fill Volume (CY)	0



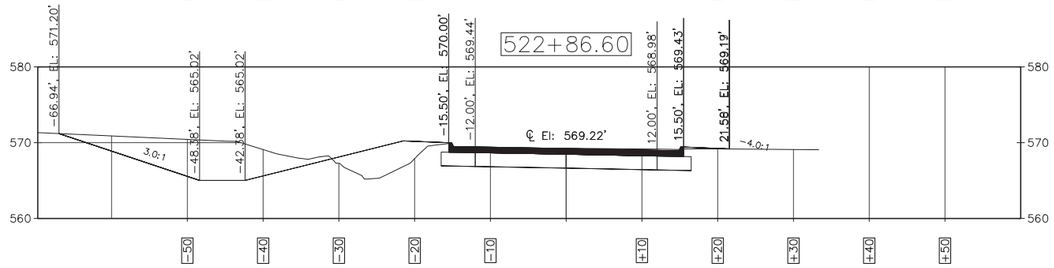
Total Volume at Station 521+99.99	
Cut Area (SF)	194.15
Fill Area (SF)	3.33
Cut Volume (CY)	172
Fill Volume (CY)	4



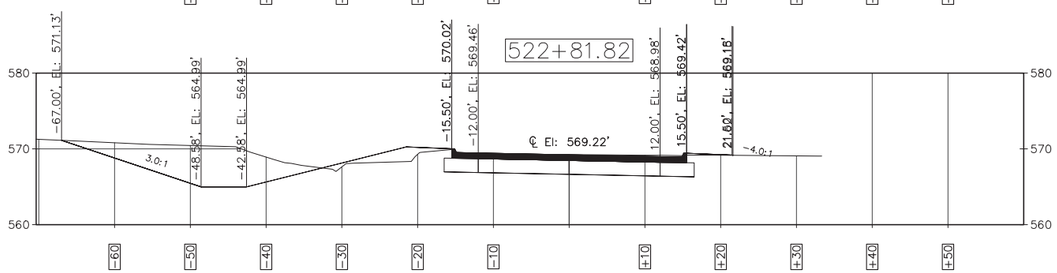
Total Volume at Station 521+75.00	
Cut Area (SF)	177.20
Fill Area (SF)	4.36
Cut Volume (CY)	160
Fill Volume (CY)	5



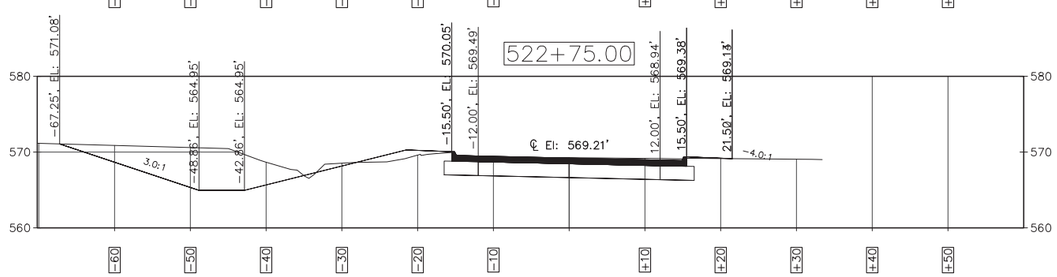
Total Volume at Station 523+00.00	
Cut Area (SF)	190.54
Fill Area (SF)	21.95
Cut Volume (CY)	94
Fill Volume (CY)	14



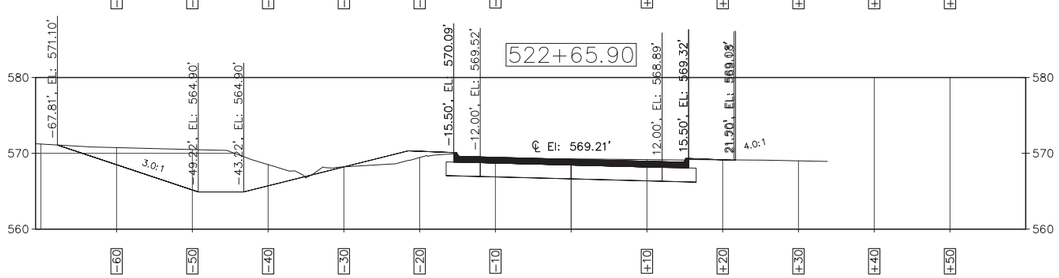
Total Volume at Station 522+86.60	
Cut Area (SF)	190.09
Fill Area (SF)	35.81
Cut Volume (CY)	33
Fill Volume (CY)	4



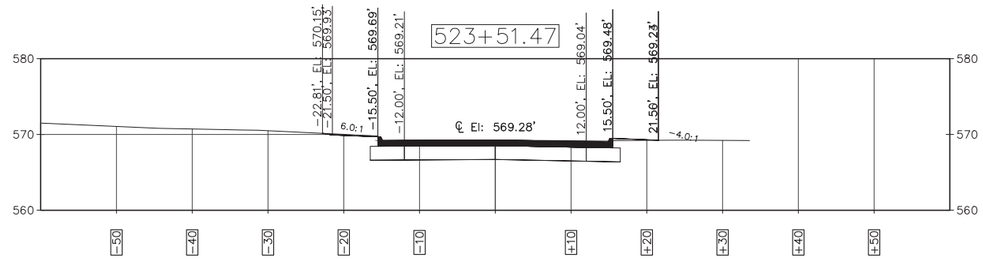
Total Volume at Station 522+81.82	
Cut Area (SF)	188.52
Fill Area (SF)	14.47
Cut Volume (CY)	48
Fill Volume (CY)	3



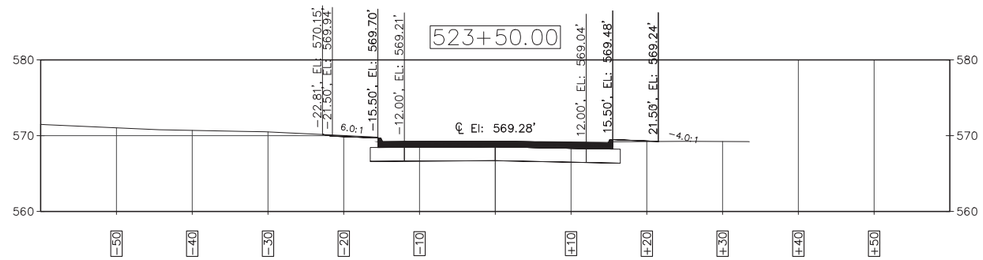
Total Volume at Station 522+75.00	
Cut Area (SF)	192.63
Fill Area (SF)	8.21
Cut Volume (CY)	65
Fill Volume (CY)	3



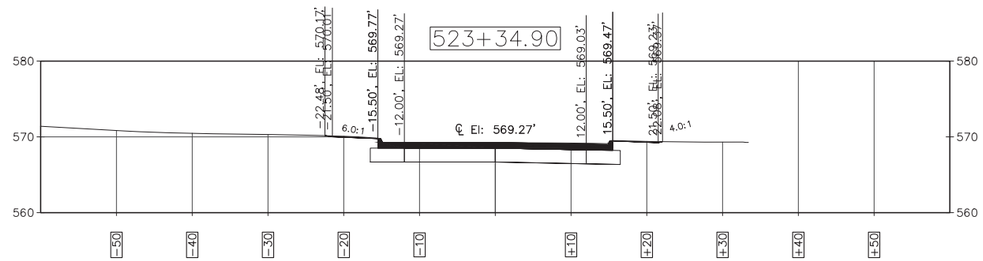
Total Volume at Station 522+65.90	
Cut Area (SF)	191.96
Fill Area (SF)	10.13
Cut Volume (CY)	114
Fill Volume (CY)	7



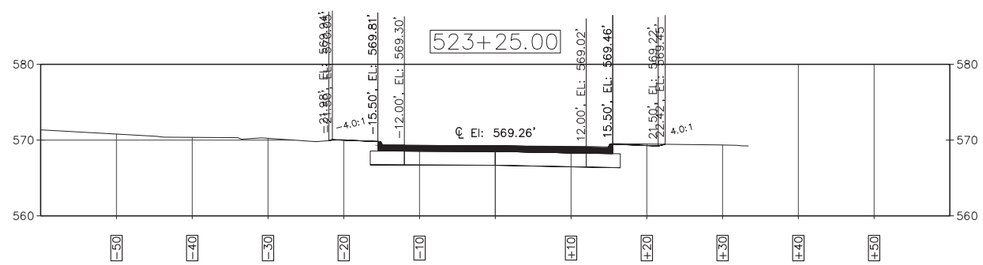
Total Volume at Station 523+51.47	
Cut Area (SF)	91.73
Fill Area (SF)	0.68
Cut Volume (CY)	5
Fill Volume (CY)	0



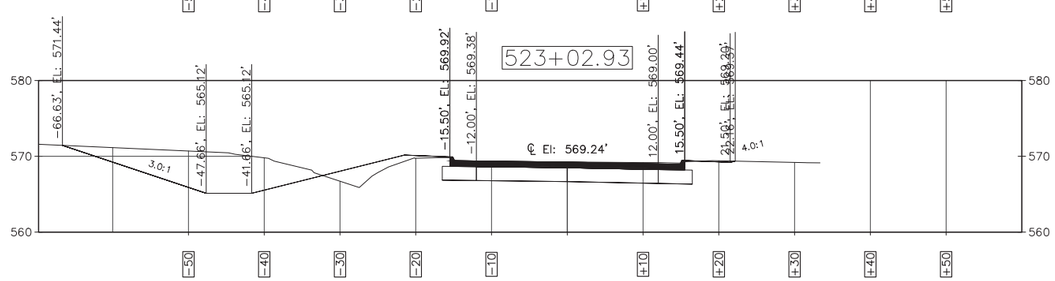
Total Volume at Station 523+50.00	
Cut Area (SF)	91.21
Fill Area (SF)	0.65
Cut Volume (CY)	50
Fill Volume (CY)	1



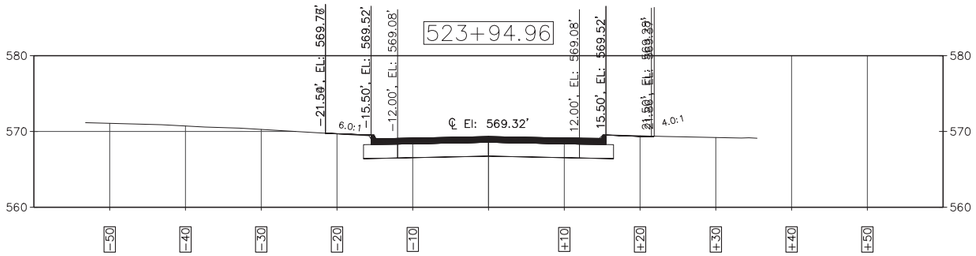
Total Volume at Station 523+34.90	
Cut Area (SF)	88.24
Fill Area (SF)	3.02
Cut Volume (CY)	34
Fill Volume (CY)	1



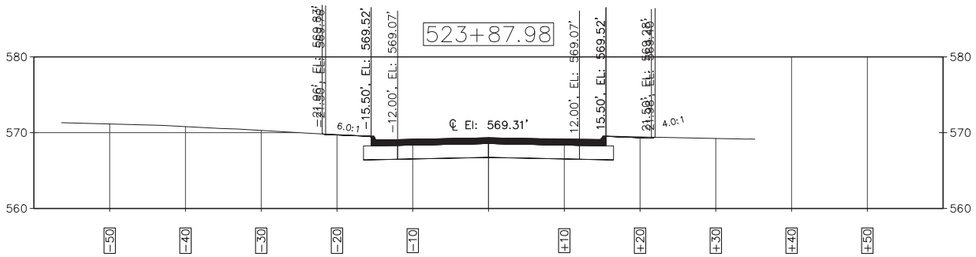
Total Volume at Station 523+25.00	
Cut Area (SF)	97.79
Fill Area (SF)	4.28
Cut Volume (CY)	119
Fill Volume (CY)	9



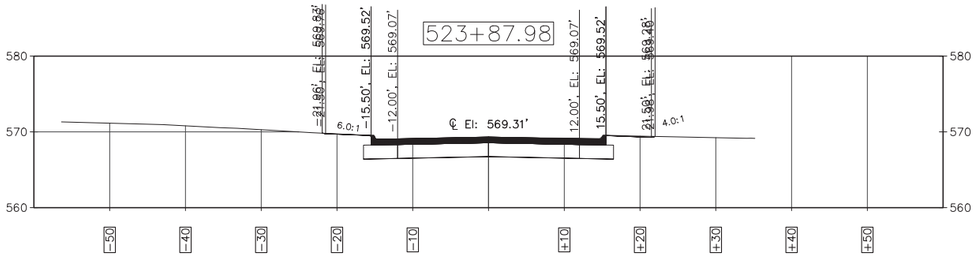
Total Volume at Station 523+02.93	
Cut Area (SF)	194.47
Fill Area (SF)	17.10
Cut Volume (CY)	21
Fill Volume (CY)	2



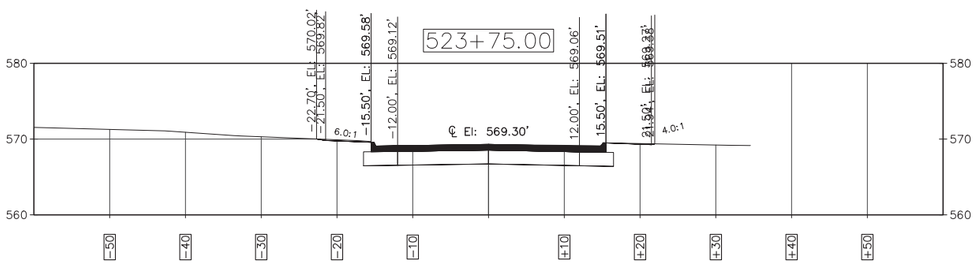
Total Volume at Station 523+94.96	
Cut Area (SF)	88.94
Fill Area (SF)	0.21
Cut Volume (CY)	23
Fill Volume (CY)	0



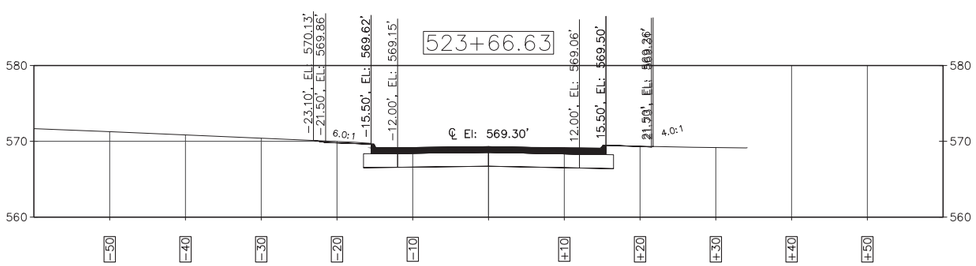
Total Volume at Station 523+87.98	
Cut Area (SF)	91.59
Fill Area (SF)	0.00
Cut Volume (CY)	0
Fill Volume (CY)	0



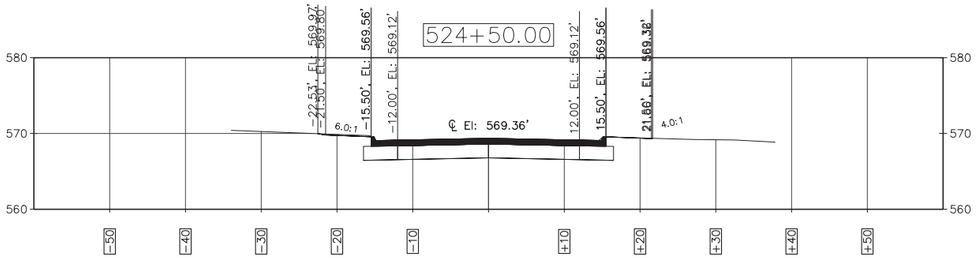
Total Volume at Station 523+87.98	
Cut Area (SF)	91.59
Fill Area (SF)	0.00
Cut Volume (CY)	45
Fill Volume (CY)	0



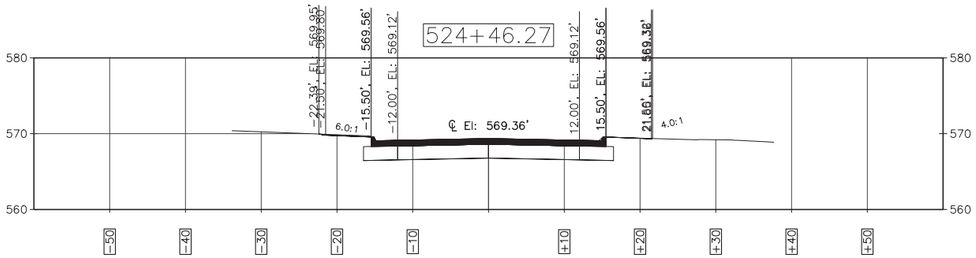
Total Volume at Station 523+75.00	
Cut Area (SF)	95.21
Fill Area (SF)	0.00
Cut Volume (CY)	30
Fill Volume (CY)	0



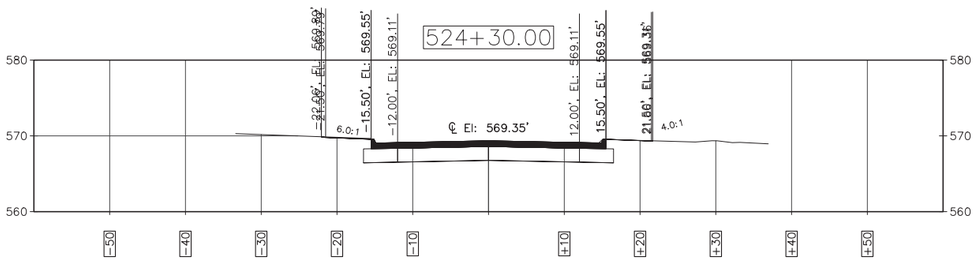
Total Volume at Station 523+66.63	
Cut Area (SF)	95.39
Fill Area (SF)	0.08
Cut Volume (CY)	53
Fill Volume (CY)	0



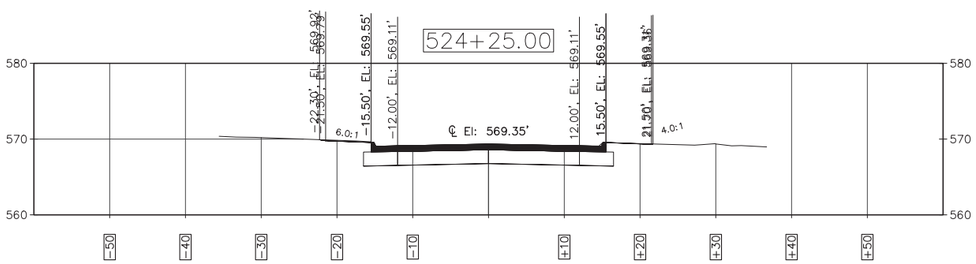
Total Volume at Station 524+50.00	
Cut Area (SF)	86.18
Fill Area (SF)	0.60
Cut Volume (CY)	12
Fill Volume (CY)	0



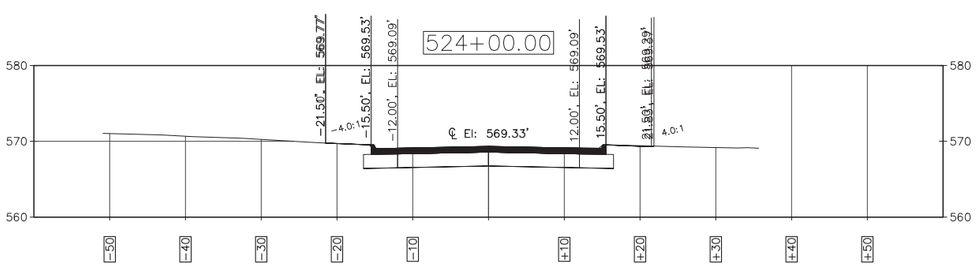
Total Volume at Station 524+46.27	
Cut Area (SF)	86.10
Fill Area (SF)	0.67
Cut Volume (CY)	52
Fill Volume (CY)	0



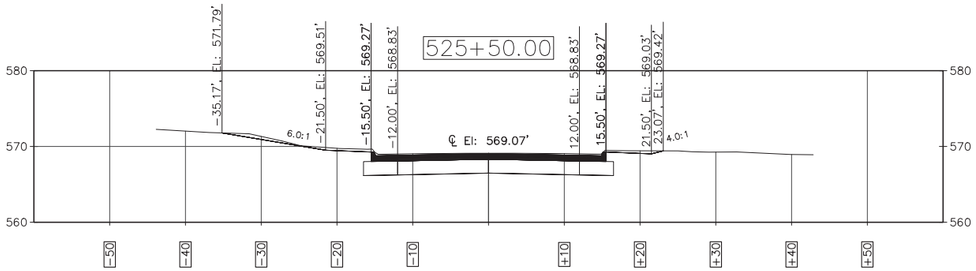
Total Volume at Station 524+30.00	
Cut Area (SF)	85.95
Fill Area (SF)	0.71
Cut Volume (CY)	16
Fill Volume (CY)	0



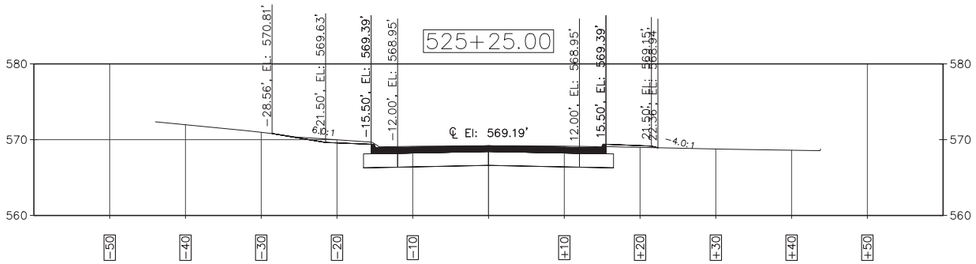
Total Volume at Station 524+25.00	
Cut Area (SF)	86.21
Fill Area (SF)	0.60
Cut Volume (CY)	81
Fill Volume (CY)	0



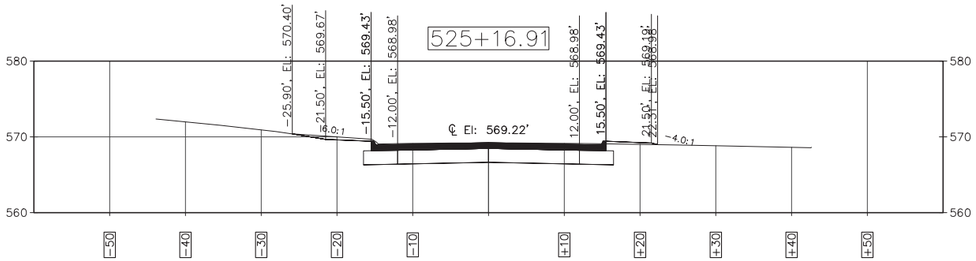
Total Volume at Station 524+00.00	
Cut Area (SF)	87.69
Fill Area (SF)	0.07
Cut Volume (CY)	16
Fill Volume (CY)	0



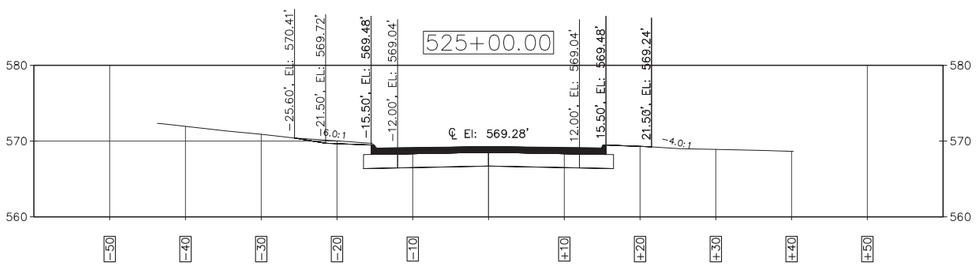
Total Volume at Station 525+50.00	
Cut Area (SF)	98.64
Fill Area (SF)	0.00
Cut Volume (CY)	89
Fill Volume (CY)	1



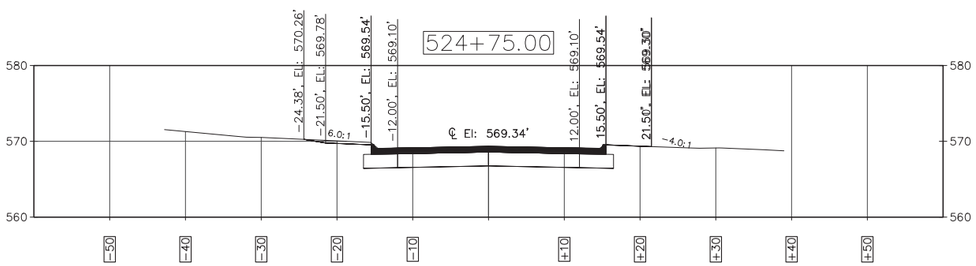
Total Volume at Station 525+25.00	
Cut Area (SF)	92.78
Fill Area (SF)	1.40
Cut Volume (CY)	28
Fill Volume (CY)	0



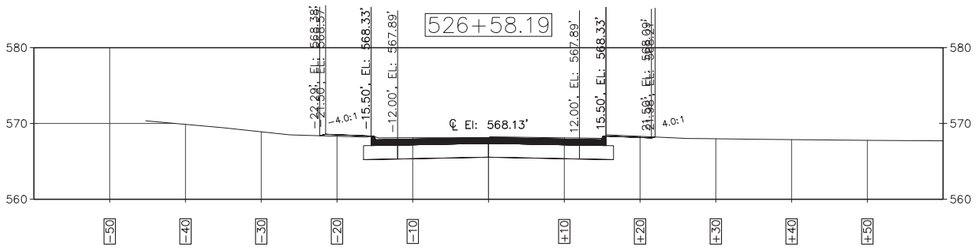
Total Volume at Station 525+16.91	
Cut Area (SF)	91.87
Fill Area (SF)	1.43
Cut Volume (CY)	57
Fill Volume (CY)	0



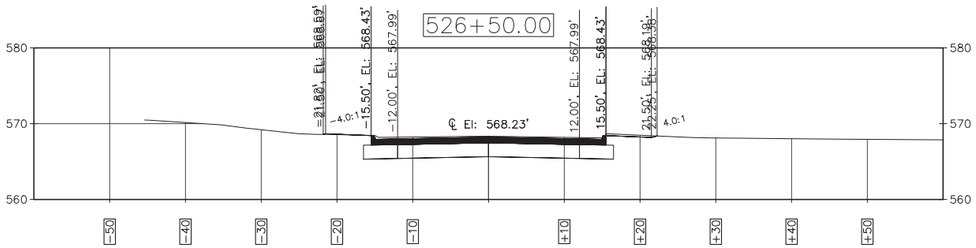
Total Volume at Station 525+00.00	
Cut Area (SF)	91.19
Fill Area (SF)	0.03
Cut Volume (CY)	84
Fill Volume (CY)	0



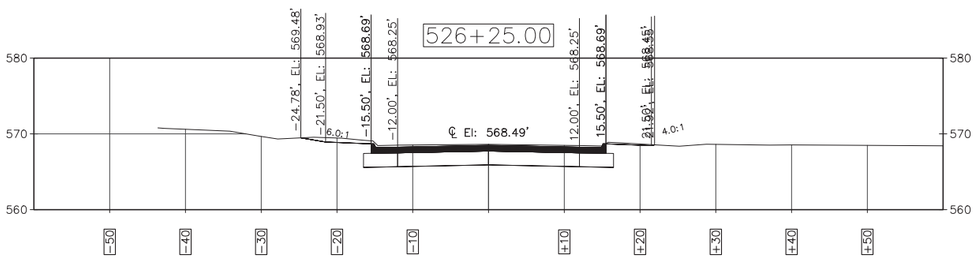
Total Volume at Station 524+75.00	
Cut Area (SF)	89.17
Fill Area (SF)	0.08
Cut Volume (CY)	81
Fill Volume (CY)	0



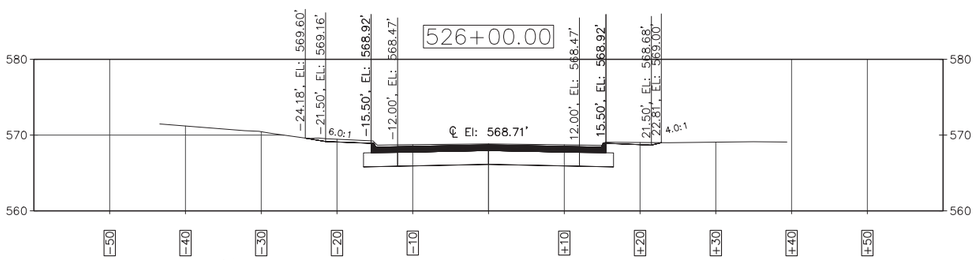
Total Volume at Station 526+58.19	
Cut Area (SF)	91.85
Fill Area (SF)	1.06
Cut Volume (CY)	28
Fill Volume (CY)	0



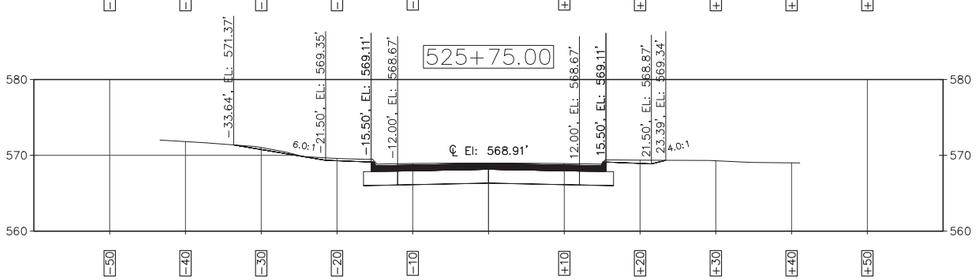
Total Volume at Station 526+50.00	
Cut Area (SF)	93.51
Fill Area (SF)	0.23
Cut Volume (CY)	89
Fill Volume (CY)	0



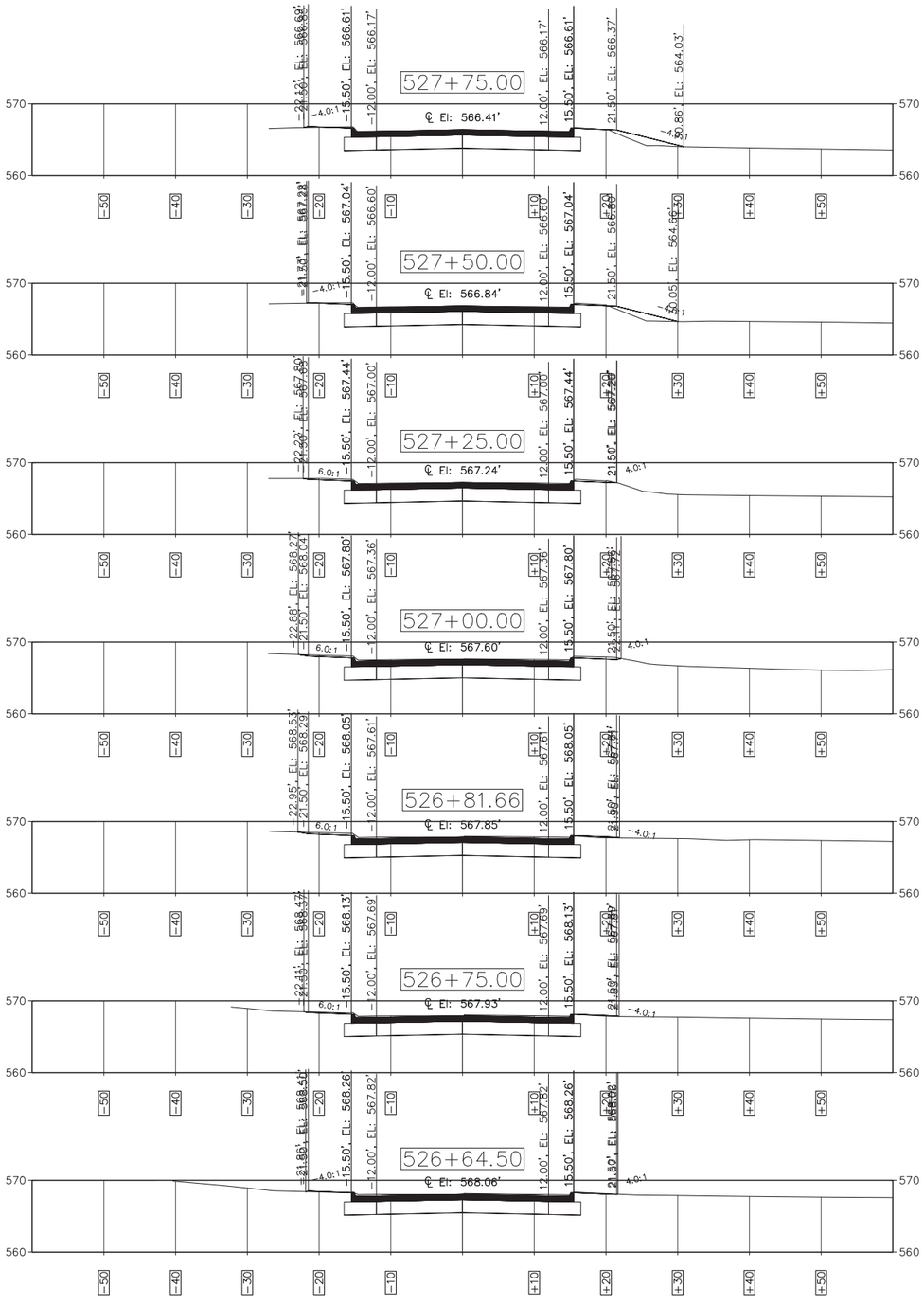
Total Volume at Station 526+25.00	
Cut Area (SF)	98.07
Fill Area (SF)	0.05
Cut Volume (CY)	90
Fill Volume (CY)	0



Total Volume at Station 526+00.00	
Cut Area (SF)	96.78
Fill Area (SF)	0.28
Cut Volume (CY)	90
Fill Volume (CY)	0



Total Volume at Station 525+75.00	
Cut Area (SF)	98.63
Fill Area (SF)	0.00
Cut Volume (CY)	91
Fill Volume (CY)	0



Total Volume at Station 527+75.00	
Cut Area (SF)	86.85
Fill Area (SF)	6.82
Cut Volume (CY)	82
Fill Volume (CY)	6

Total Volume at Station 527+50.00	
Cut Area (SF)	89.68
Fill Area (SF)	5.44
Cut Volume (CY)	84
Fill Volume (CY)	3

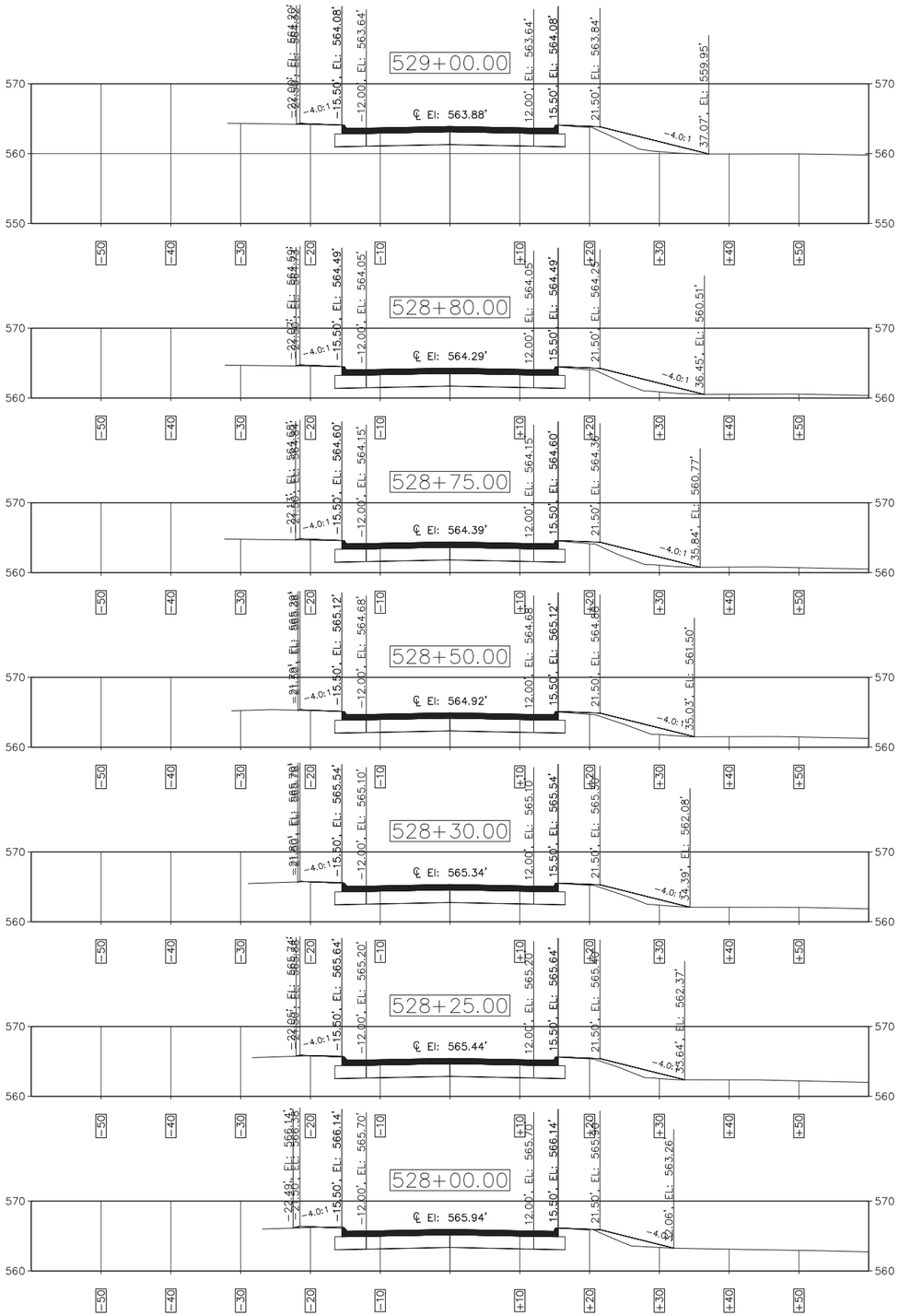
Total Volume at Station 527+25.00	
Cut Area (SF)	91.84
Fill Area (SF)	1.01
Cut Volume (CY)	87
Fill Volume (CY)	0

Total Volume at Station 527+00.00	
Cut Area (SF)	95.26
Fill Area (SF)	0.00
Cut Volume (CY)	64
Fill Volume (CY)	0

Total Volume at Station 526+81.66	
Cut Area (SF)	93.50
Fill Area (SF)	0.68
Cut Volume (CY)	23
Fill Volume (CY)	0

Total Volume at Station 526+75.00	
Cut Area (SF)	92.13
Fill Area (SF)	0.38
Cut Volume (CY)	36
Fill Volume (CY)	0

Total Volume at Station 526+64.50	
Cut Area (SF)	91.36
Fill Area (SF)	0.40
Cut Volume (CY)	21
Fill Volume (CY)	0



Total Volume at Station 529+00.00	
Cut Area (SF)	84.90
Fill Area (SF)	18.23
Cut Volume (CY)	63
Fill Volume (CY)	13

Total Volume at Station 528+80.00	
Cut Area (SF)	84.15
Fill Area (SF)	16.74
Cut Volume (CY)	16
Fill Volume (CY)	3

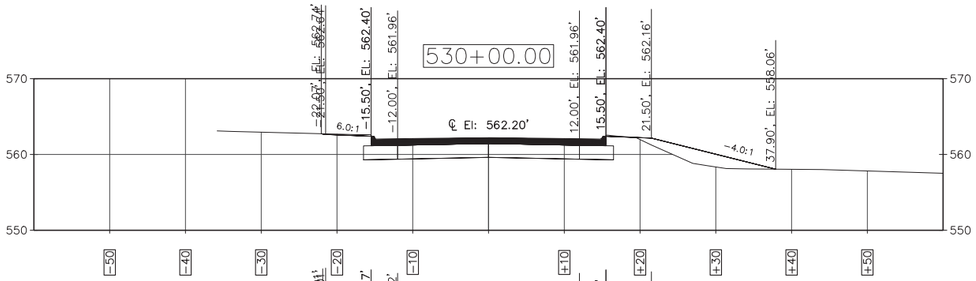
Total Volume at Station 528+75.00	
Cut Area (SF)	83.88
Fill Area (SF)	15.80
Cut Volume (CY)	77
Fill Volume (CY)	12

Total Volume at Station 528+50.00	
Cut Area (SF)	83.19
Fill Area (SF)	10.87
Cut Volume (CY)	62
Fill Volume (CY)	7

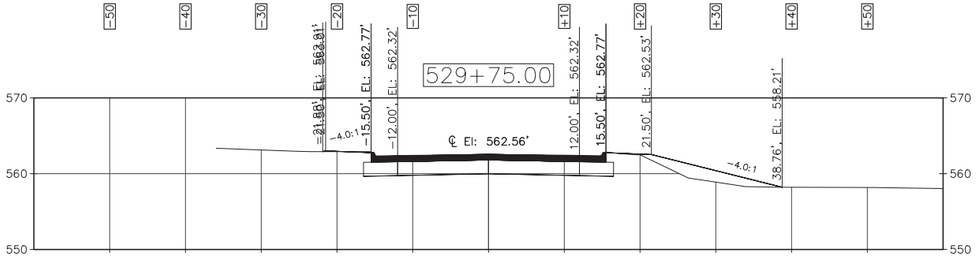
Total Volume at Station 528+30.00	
Cut Area (SF)	83.93
Fill Area (SF)	8.78
Cut Volume (CY)	16
Fill Volume (CY)	2

Total Volume at Station 528+25.00	
Cut Area (SF)	84.14
Fill Area (SF)	8.43
Cut Volume (CY)	78
Fill Volume (CY)	8

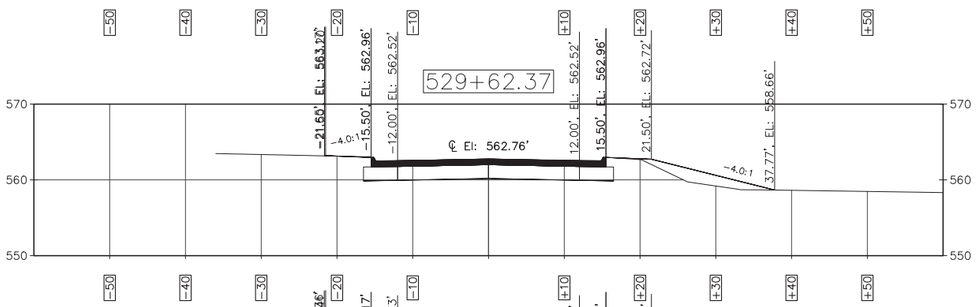
Total Volume at Station 528+00.00	
Cut Area (SF)	84.99
Fill Area (SF)	8.41
Cut Volume (CY)	80
Fill Volume (CY)	7



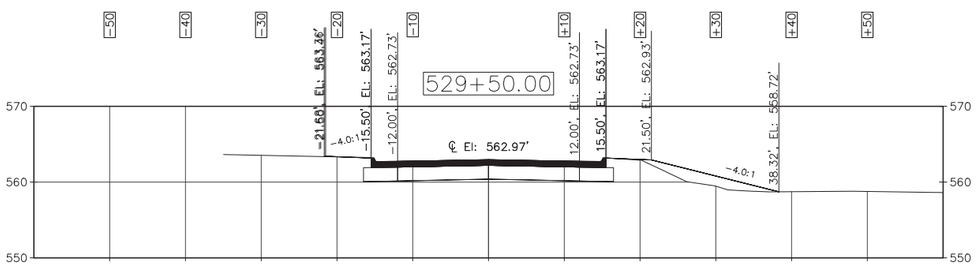
Total Volume at Station 530+00.00	
Cut Area (SF)	90.25
Fill Area (SF)	21.72
Cut Volume (CY)	83
Fill Volume (CY)	20



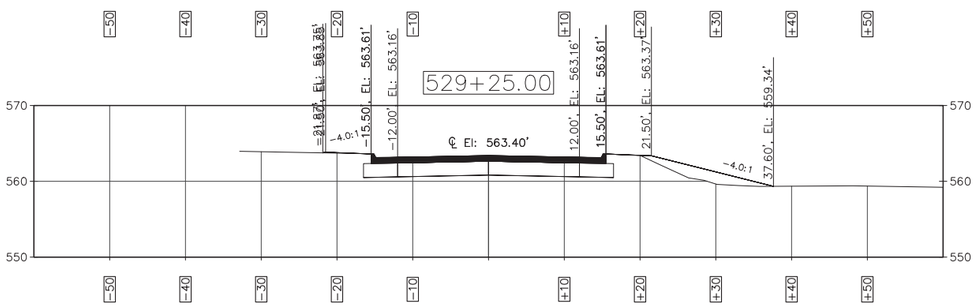
Total Volume at Station 529+75.00	
Cut Area (SF)	88.23
Fill Area (SF)	21.51
Cut Volume (CY)	41
Fill Volume (CY)	10



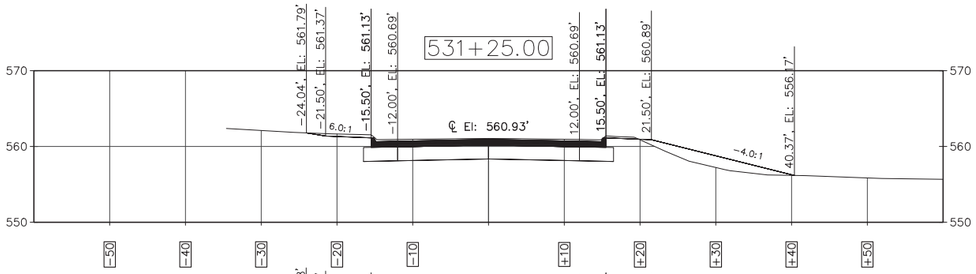
Total Volume at Station 529+62.37	
Cut Area (SF)	87.21
Fill Area (SF)	19.19
Cut Volume (CY)	40
Fill Volume (CY)	9



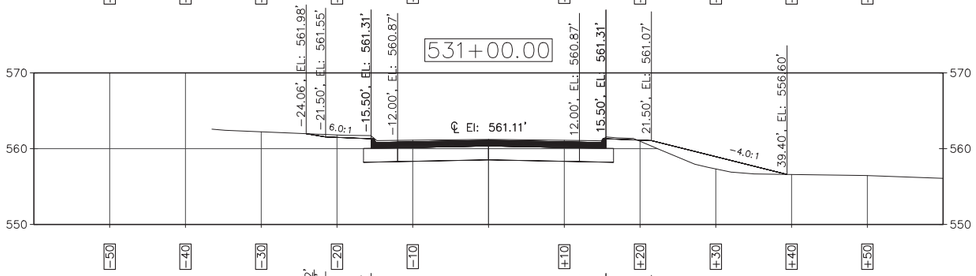
Total Volume at Station 529+50.00	
Cut Area (SF)	87.00
Fill Area (SF)	19.39
Cut Volume (CY)	80
Fill Volume (CY)	18



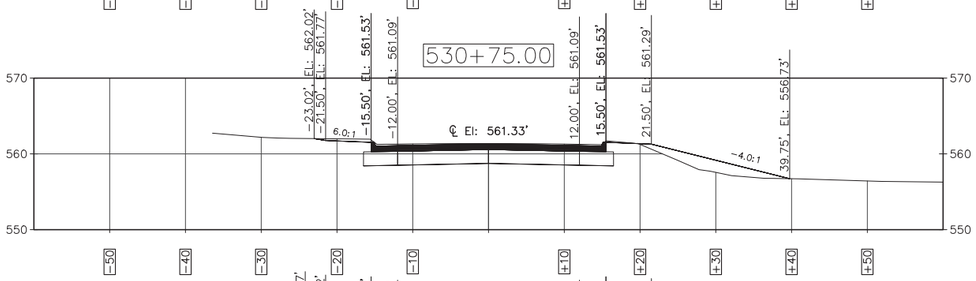
Total Volume at Station 529+25.00	
Cut Area (SF)	85.97
Fill Area (SF)	18.78
Cut Volume (CY)	79
Fill Volume (CY)	17



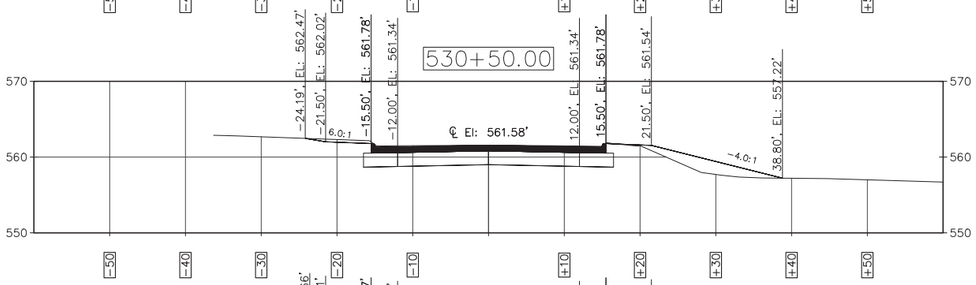
Total Volume at Station 531+25.00	
Cut Area (SF)	96.26
Fill Area (SF)	21.98
Cut Volume (CY)	89
Fill Volume (CY)	20



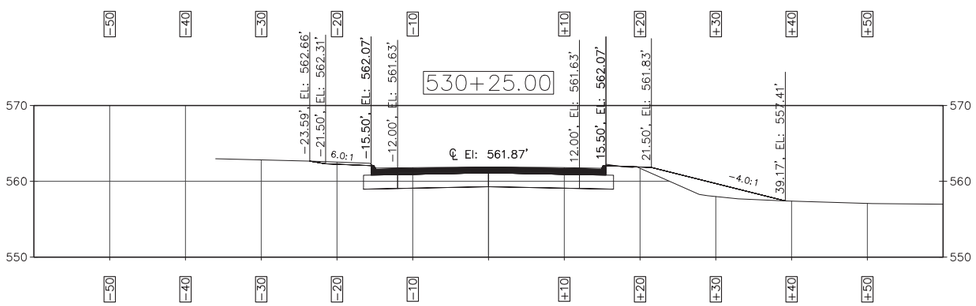
Total Volume at Station 531+00.00	
Cut Area (SF)	95.57
Fill Area (SF)	21.50
Cut Volume (CY)	87
Fill Volume (CY)	20



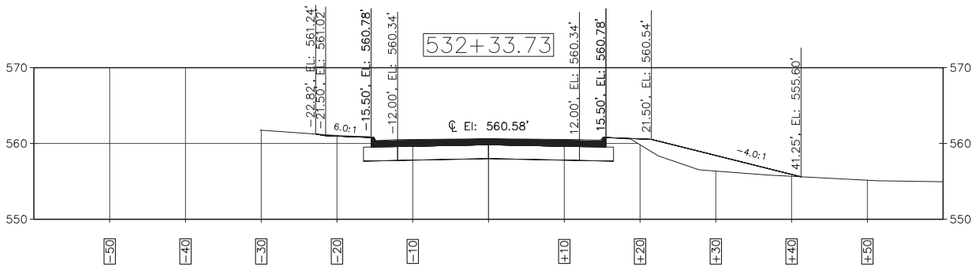
Total Volume at Station 530+75.00	
Cut Area (SF)	93.42
Fill Area (SF)	21.56
Cut Volume (CY)	86
Fill Volume (CY)	20



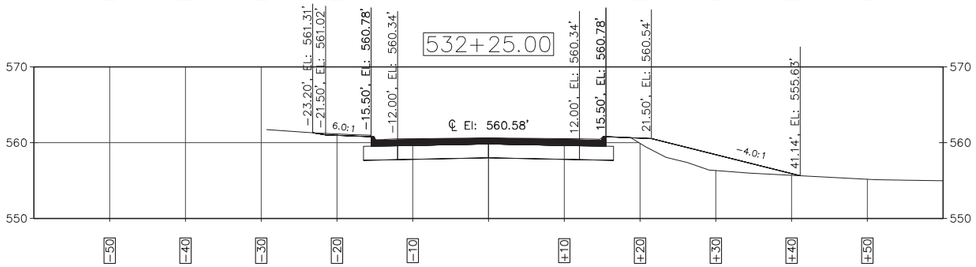
Total Volume at Station 530+50.00	
Cut Area (SF)	91.81
Fill Area (SF)	21.37
Cut Volume (CY)	85
Fill Volume (CY)	20



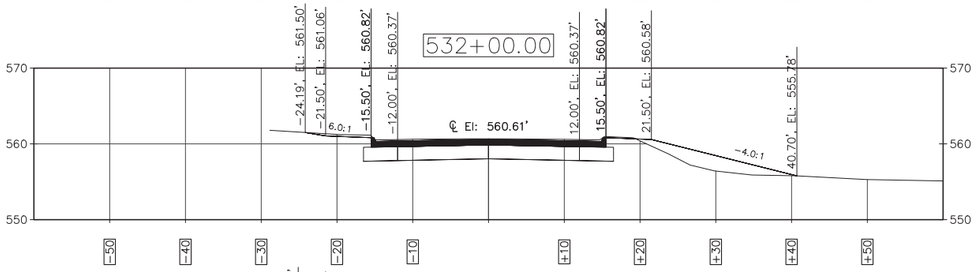
Total Volume at Station 530+25.00	
Cut Area (SF)	91.65
Fill Area (SF)	22.12
Cut Volume (CY)	84
Fill Volume (CY)	20



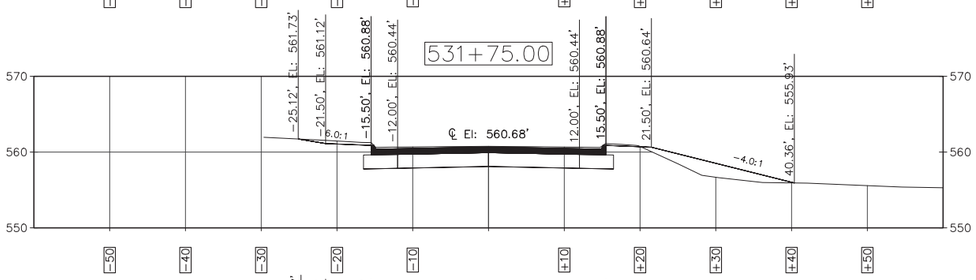
Total Volume at Station 532+33.73	
Cut Area (SF)	91.15
Fill Area (SF)	32.81
Cut Volume (CY)	30
Fill Volume (CY)	10



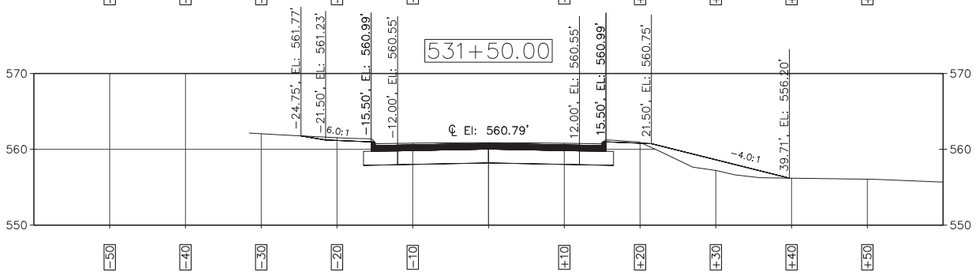
Total Volume at Station 532+25.00	
Cut Area (SF)	91.69
Fill Area (SF)	31.07
Cut Volume (CY)	86
Fill Volume (CY)	27



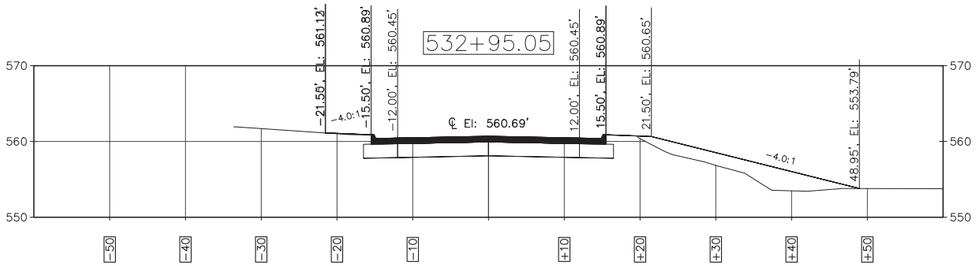
Total Volume at Station 532+00.00	
Cut Area (SF)	93.83
Fill Area (SF)	27.41
Cut Volume (CY)	88
Fill Volume (CY)	24



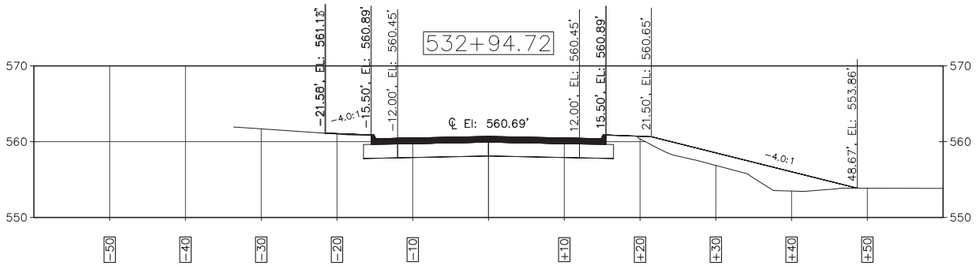
Total Volume at Station 531+75.00	
Cut Area (SF)	95.64
Fill Area (SF)	23.47
Cut Volume (CY)	89
Fill Volume (CY)	20



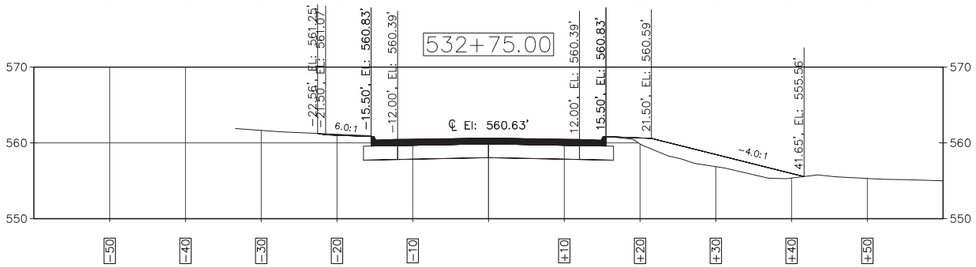
Total Volume at Station 531+50.00	
Cut Area (SF)	96.06
Fill Area (SF)	20.26
Cut Volume (CY)	89
Fill Volume (CY)	20



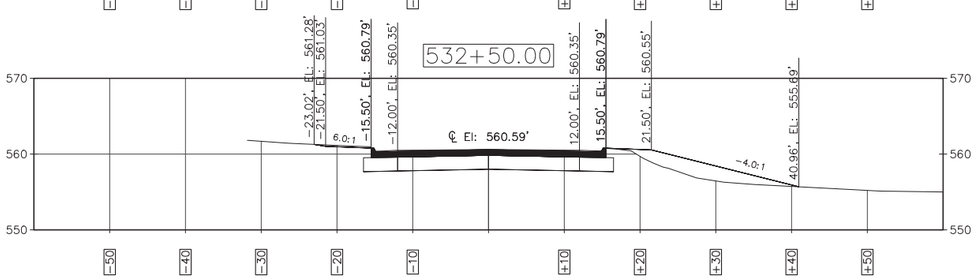
Total Volume at Station 532+95.05	
Cut Area (SF)	84.91
Fill Area (SF)	49.18
Cut Volume (CY)	1
Fill Volume (CY)	1



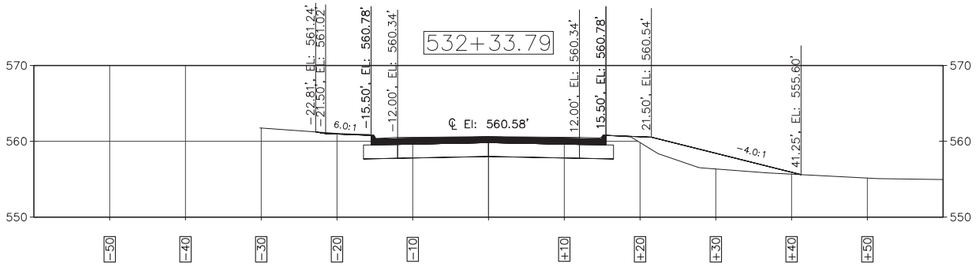
Total Volume at Station 532+94.72	
Cut Area (SF)	85.00
Fill Area (SF)	48.25
Cut Volume (CY)	65
Fill Volume (CY)	29



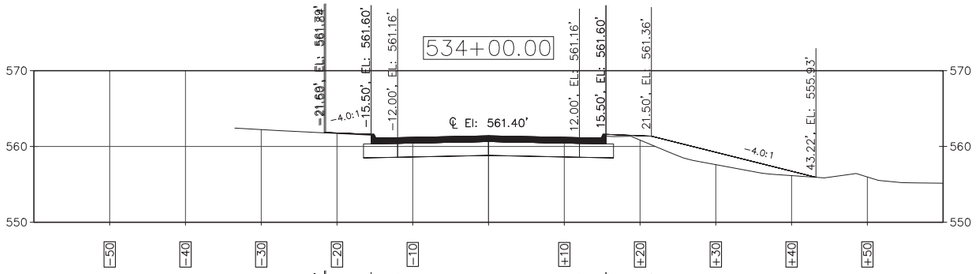
Total Volume at Station 532+75.00	
Cut Area (SF)	93.10
Fill Area (SF)	30.83
Cut Volume (CY)	86
Fill Volume (CY)	29



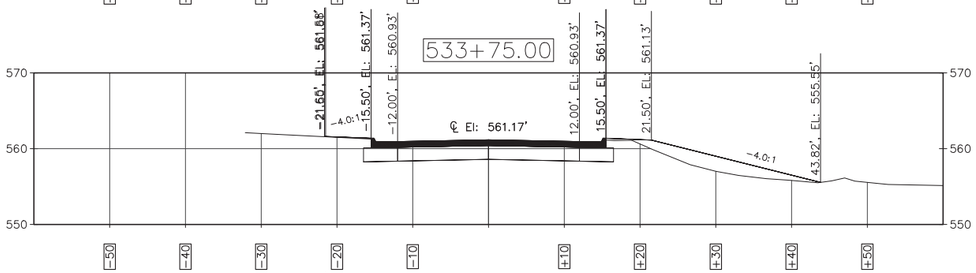
Total Volume at Station 532+50.00	
Cut Area (SF)	92.29
Fill Area (SF)	31.31
Cut Volume (CY)	55
Fill Volume (CY)	19



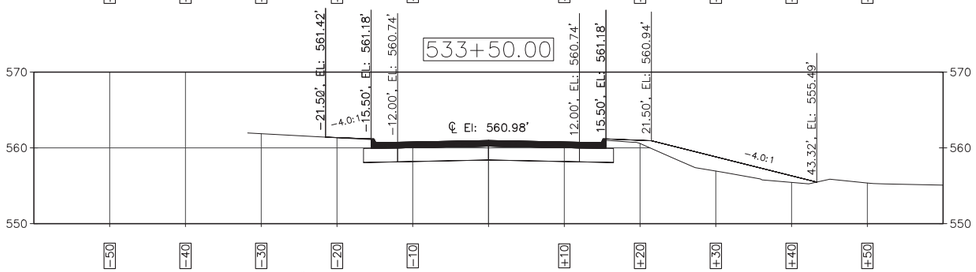
Total Volume at Station 532+33.79	
Cut Area (SF)	91.14
Fill Area (SF)	32.80
Cut Volume (CY)	0
Fill Volume (CY)	0



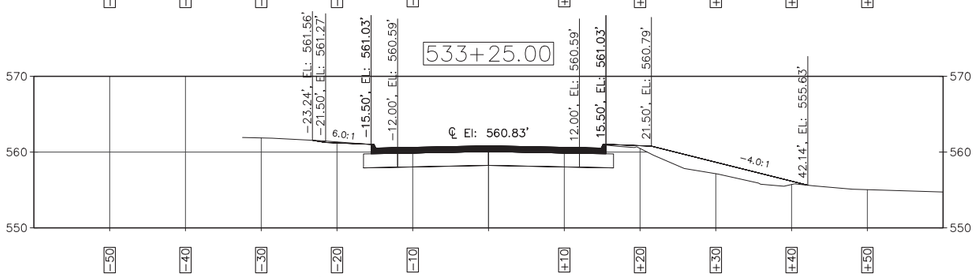
Total Volume at Station 534+00.00	
Cut Area (SF)	79.82
Fill Area (SF)	29.70
Cut Volume (CY)	74
Fill Volume (CY)	29



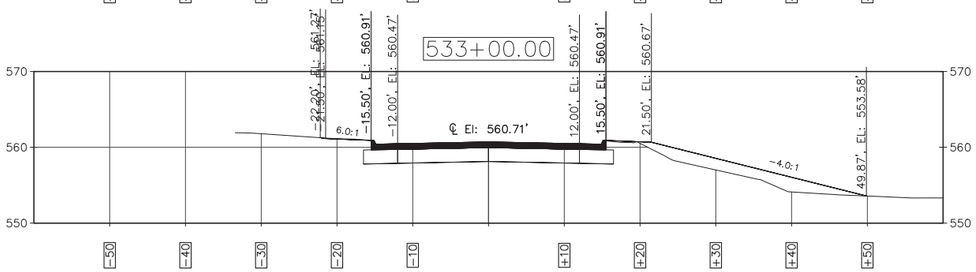
Total Volume at Station 533+75.00	
Cut Area (SF)	80.44
Fill Area (SF)	33.40
Cut Volume (CY)	76
Fill Volume (CY)	31



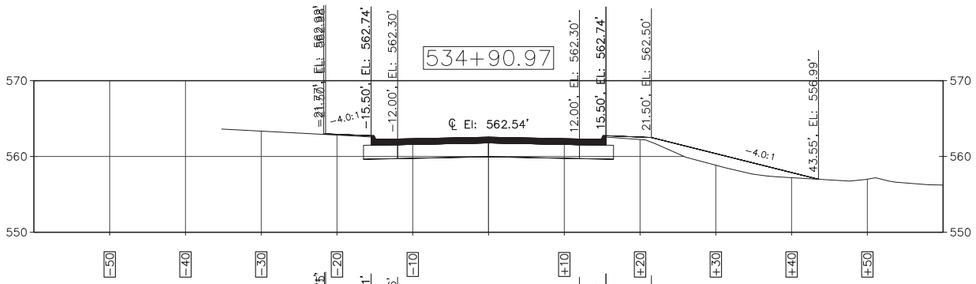
Total Volume at Station 533+50.00	
Cut Area (SF)	83.16
Fill Area (SF)	33.25
Cut Volume (CY)	79
Fill Volume (CY)	29



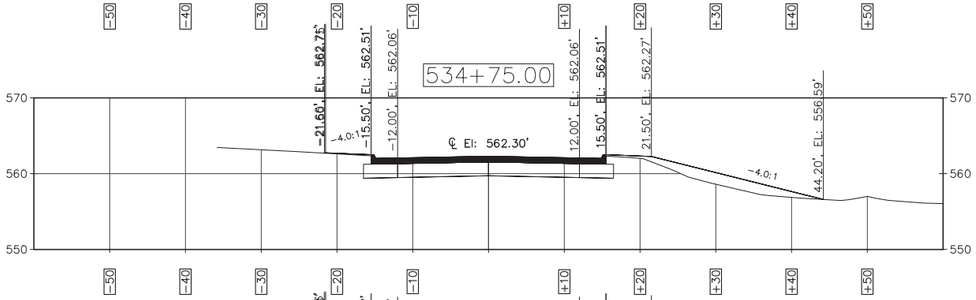
Total Volume at Station 533+25.00	
Cut Area (SF)	86.89
Fill Area (SF)	28.40
Cut Volume (CY)	80
Fill Volume (CY)	31



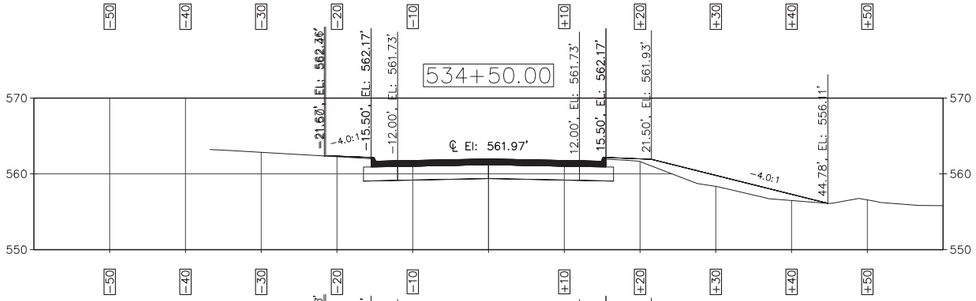
Total Volume at Station 533+00.00	
Cut Area (SF)	85.31
Fill Area (SF)	39.54
Cut Volume (CY)	16
Fill Volume (CY)	8



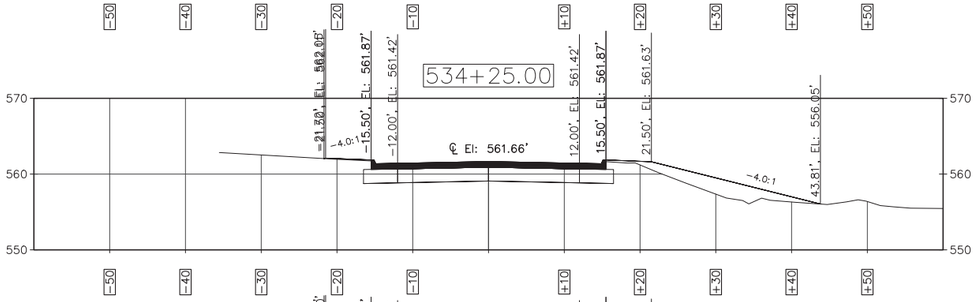
Total Volume at Station 534+90.97	
Cut Area (SF)	79.50
Fill Area (SF)	27.23
Cut Volume (CY)	47
Fill Volume (CY)	16



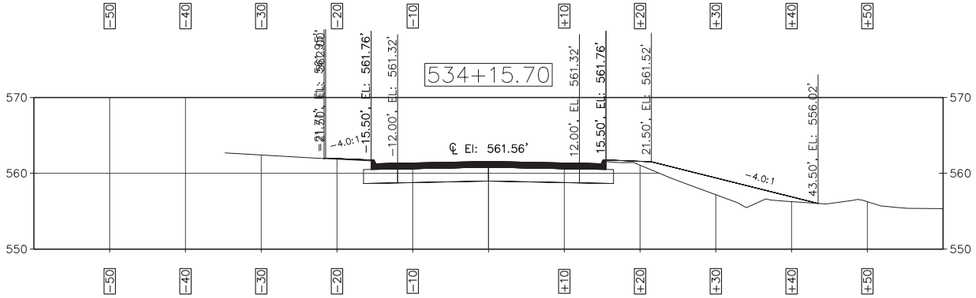
Total Volume at Station 534+75.00	
Cut Area (SF)	79.42
Fill Area (SF)	27.74
Cut Volume (CY)	73
Fill Volume (CY)	26



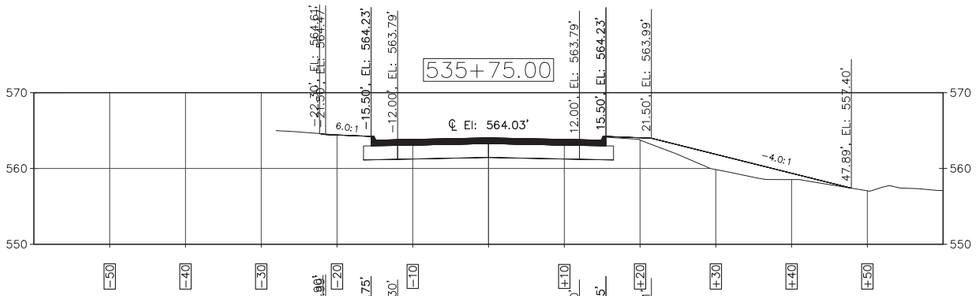
Total Volume at Station 534+50.00	
Cut Area (SF)	78.63
Fill Area (SF)	28.84
Cut Volume (CY)	73
Fill Volume (CY)	29



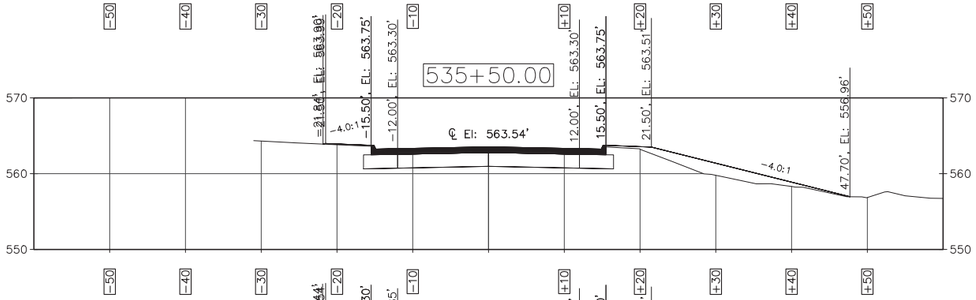
Total Volume at Station 534+25.00	
Cut Area (SF)	79.28
Fill Area (SF)	34.34
Cut Volume (CY)	27
Fill Volume (CY)	12



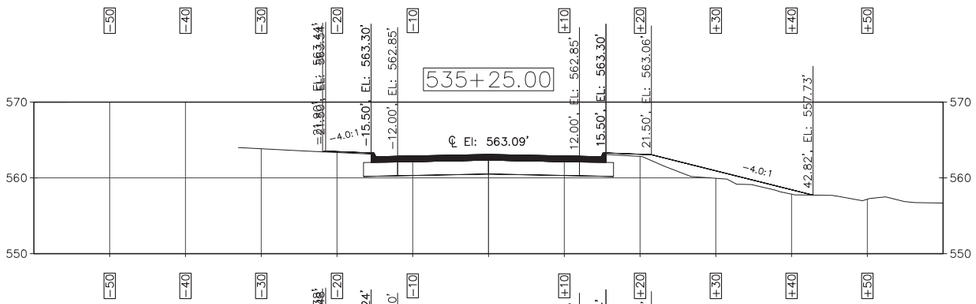
Total Volume at Station 534+15.70	
Cut Area (SF)	79.63
Fill Area (SF)	36.51
Cut Volume (CY)	46
Fill Volume (CY)	19



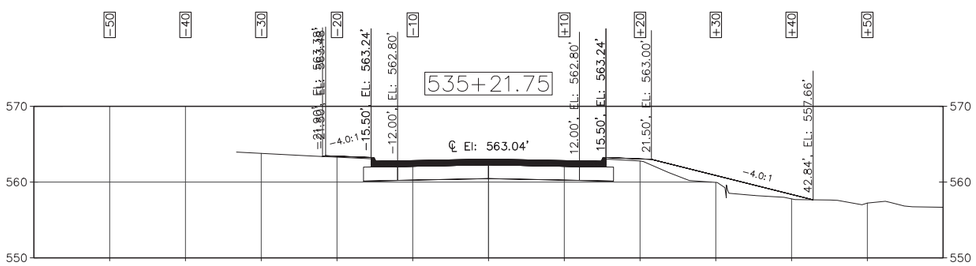
Total Volume at Station 535+75.00	
Cut Area (SF)	84.35
Fill Area (SF)	33.52
Cut Volume (CY)	77
Fill Volume (CY)	29



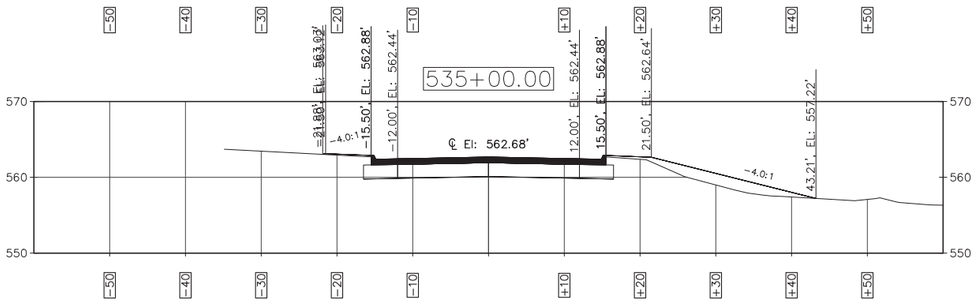
Total Volume at Station 535+50.00	
Cut Area (SF)	81.50
Fill Area (SF)	28.16
Cut Volume (CY)	76
Fill Volume (CY)	23



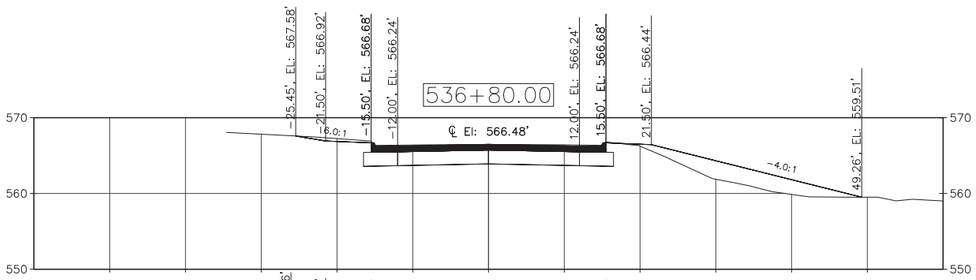
Total Volume at Station 535+25.00	
Cut Area (SF)	81.99
Fill Area (SF)	21.00
Cut Volume (CY)	10
Fill Volume (CY)	3



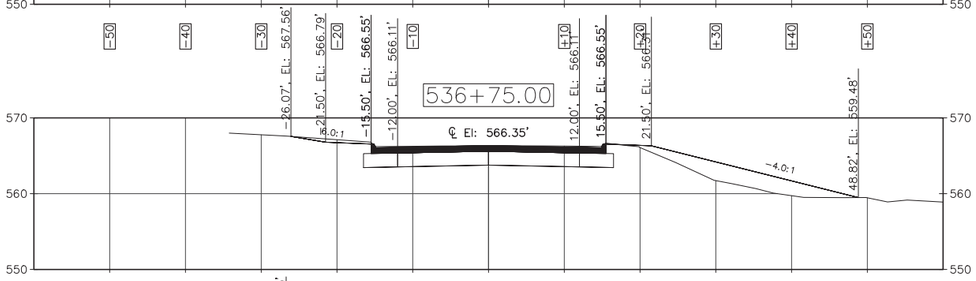
Total Volume at Station 535+21.75	
Cut Area (SF)	81.80
Fill Area (SF)	25.59
Cut Volume (CY)	65
Fill Volume (CY)	21



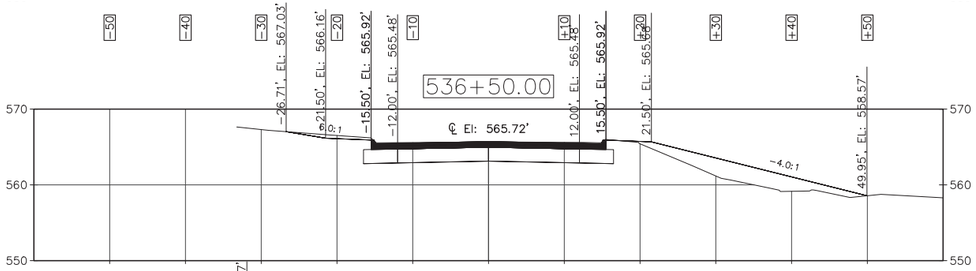
Total Volume at Station 535+00.00	
Cut Area (SF)	79.60
Fill Area (SF)	27.14
Cut Volume (CY)	27
Fill Volume (CY)	9



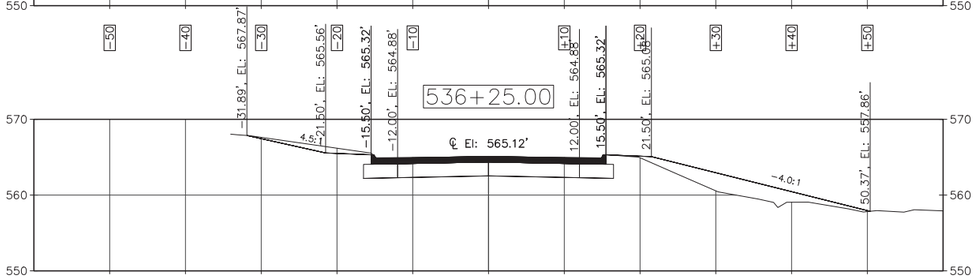
Total Volume at Station 536+80.00	
Cut Area (SF)	92.18
Fill Area (SF)	47.77
Cut Volume (CY)	17
Fill Volume (CY)	9



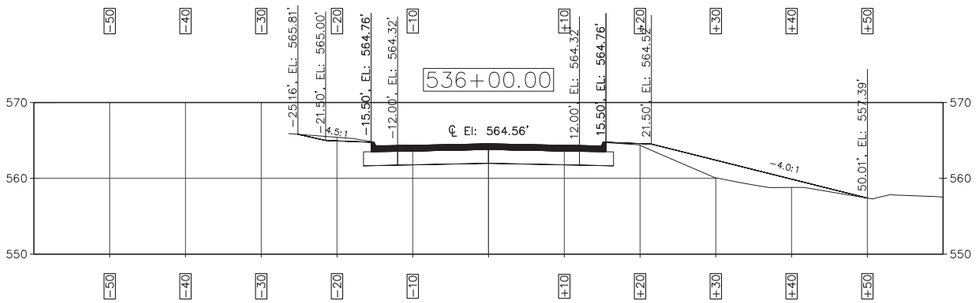
Total Volume at Station 536+75.00	
Cut Area (SF)	92.45
Fill Area (SF)	47.05
Cut Volume (CY)	85
Fill Volume (CY)	44



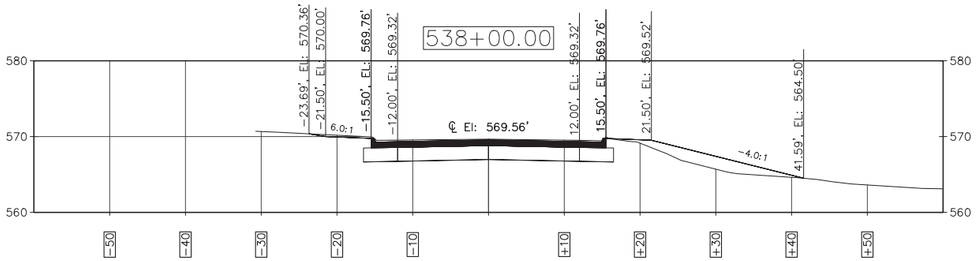
Total Volume at Station 536+50.00	
Cut Area (SF)	91.86
Fill Area (SF)	47.86
Cut Volume (CY)	87
Fill Volume (CY)	42



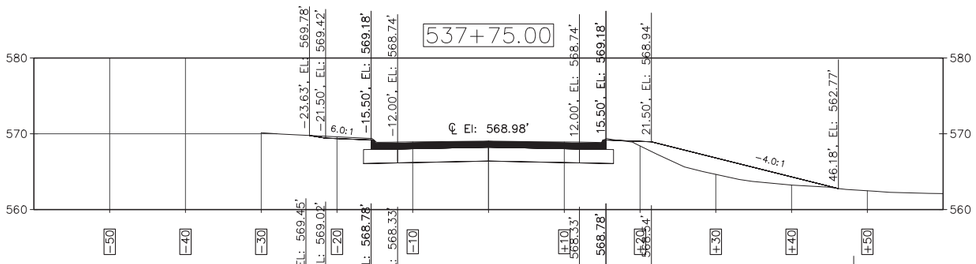
Total Volume at Station 536+25.00	
Cut Area (SF)	95.11
Fill Area (SF)	42.73
Cut Volume (CY)	85
Fill Volume (CY)	38



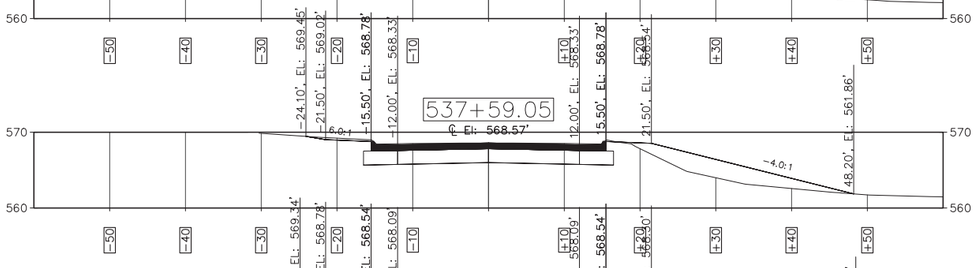
Total Volume at Station 536+00.00	
Cut Area (SF)	88.80
Fill Area (SF)	38.53
Cut Volume (CY)	80
Fill Volume (CY)	33



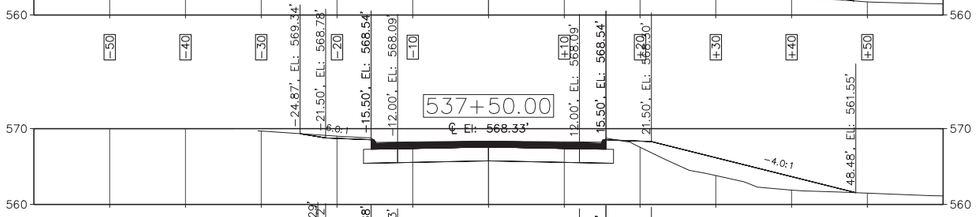
Total Volume at Station 538+00.00	
Cut Area (SF)	93.37
Fill Area (SF)	26.27
Cut Volume (CY)	86
Fill Volume (CY)	31



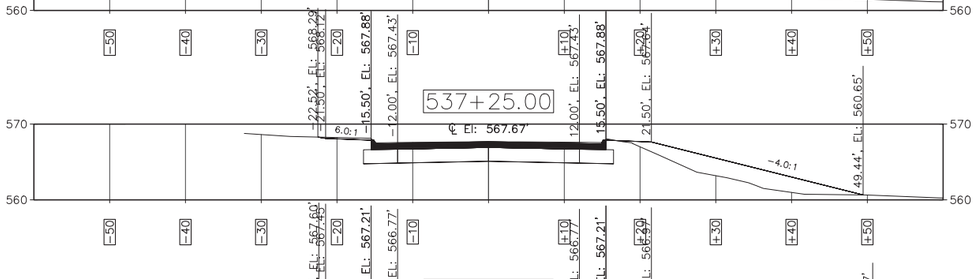
Total Volume at Station 537+75.00	
Cut Area (SF)	92.12
Fill Area (SF)	39.62
Cut Volume (CY)	54
Fill Volume (CY)	26



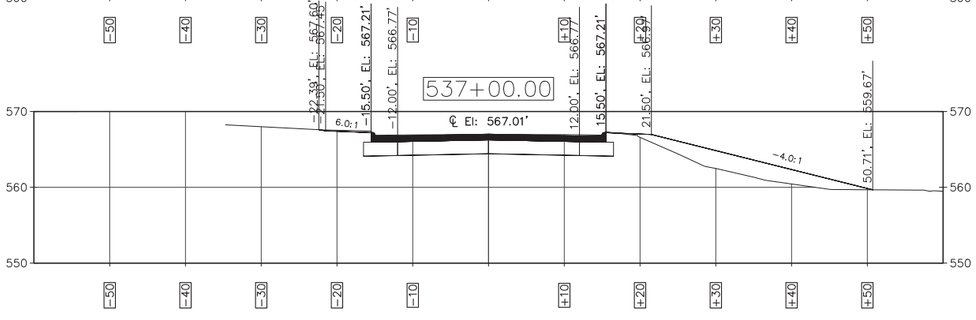
Total Volume at Station 537+59.05	
Cut Area (SF)	91.61
Fill Area (SF)	47.10
Cut Volume (CY)	31
Fill Volume (CY)	17



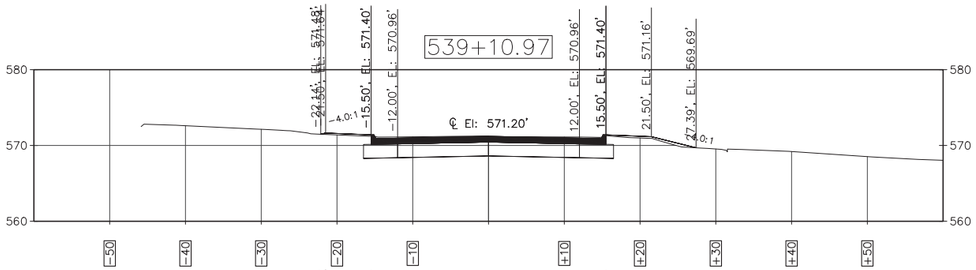
Total Volume at Station 537+50.00	
Cut Area (SF)	91.93
Fill Area (SF)	51.41
Cut Volume (CY)	85
Fill Volume (CY)	48



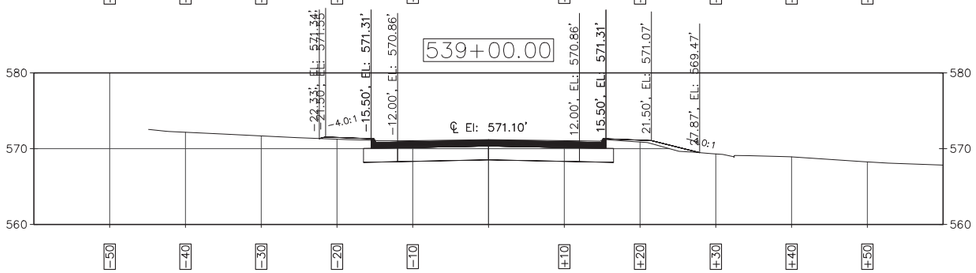
Total Volume at Station 537+25.00	
Cut Area (SF)	90.71
Fill Area (SF)	52.78
Cut Volume (CY)	84
Fill Volume (CY)	49



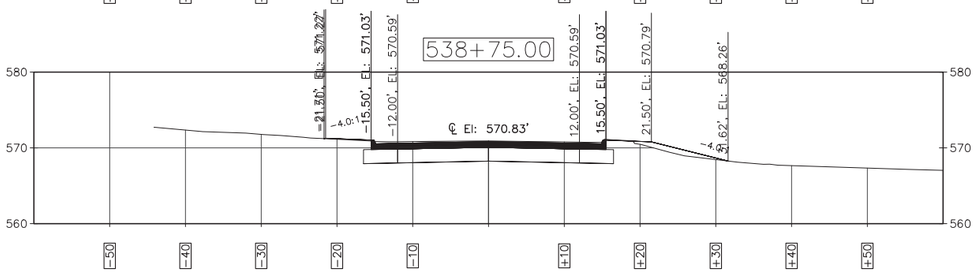
Total Volume at Station 537+00.00	
Cut Area (SF)	90.22
Fill Area (SF)	52.09
Cut Volume (CY)	68
Fill Volume (CY)	37



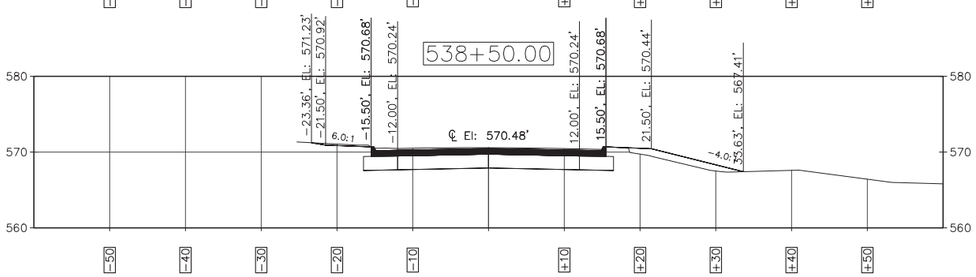
Total Volume at Station 539+10.97	
Cut Area (SF)	90.00
Fill Area (SF)	3.65
Cut Volume (CY)	37
Fill Volume (CY)	2



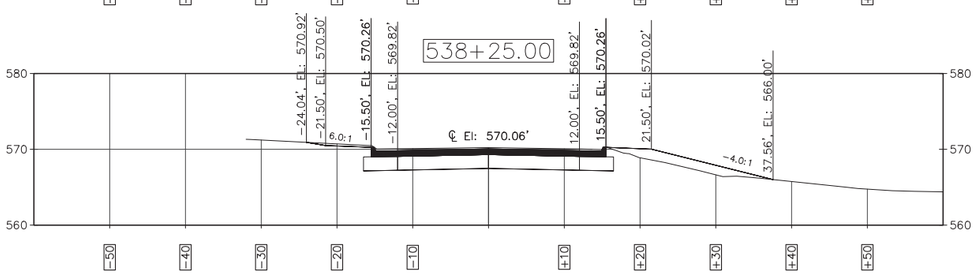
Total Volume at Station 539+00.00	
Cut Area (SF)	91.09
Fill Area (SF)	4.66
Cut Volume (CY)	85
Fill Volume (CY)	5



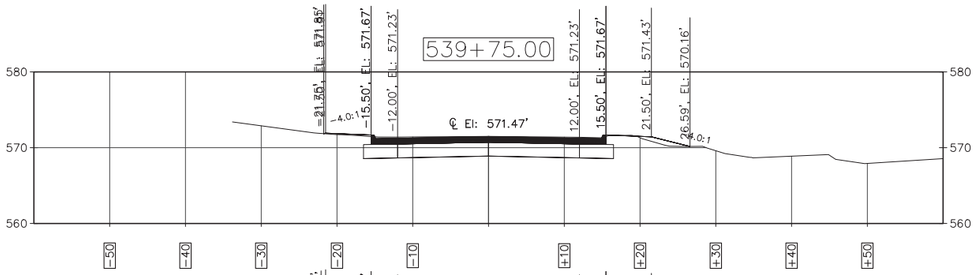
Total Volume at Station 538+75.00	
Cut Area (SF)	91.48
Fill Area (SF)	6.97
Cut Volume (CY)	86
Fill Volume (CY)	9



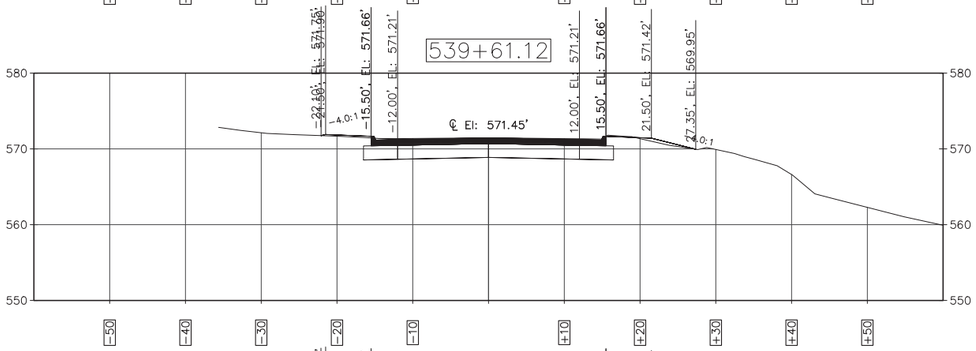
Total Volume at Station 538+50.00	
Cut Area (SF)	93.48
Fill Area (SF)	12.09
Cut Volume (CY)	87
Fill Volume (CY)	15



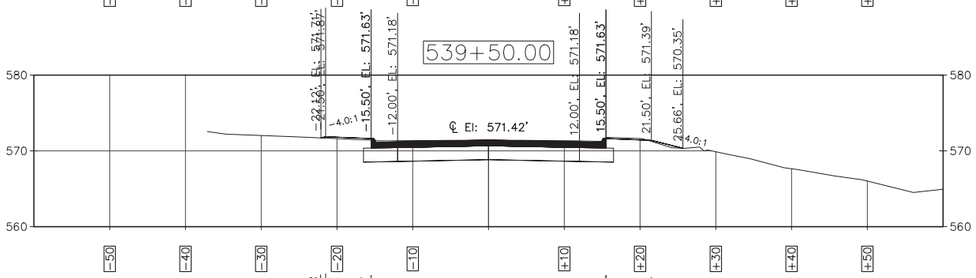
Total Volume at Station 538+25.00	
Cut Area (SF)	94.95
Fill Area (SF)	20.27
Cut Volume (CY)	87
Fill Volume (CY)	22



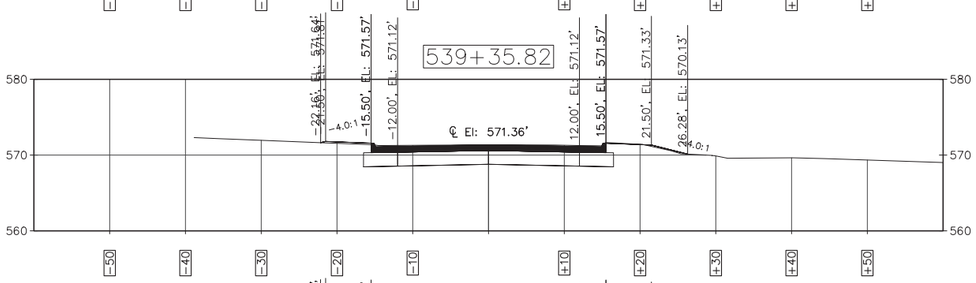
Total Volume at Station 539+75.00	
Cut Area (SF)	89.84
Fill Area (SF)	5.14
Cut Volume (CY)	46
Fill Volume (CY)	3



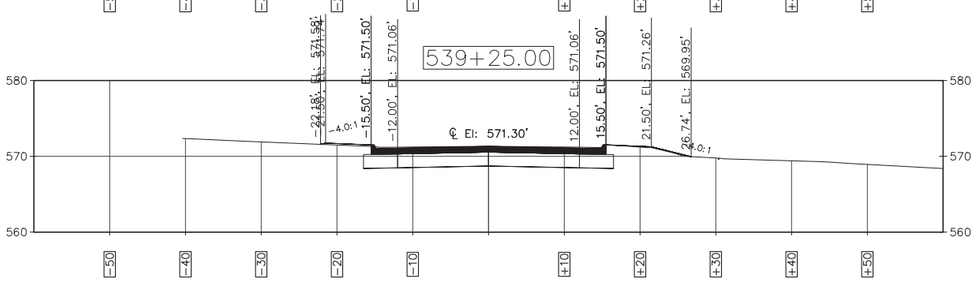
Total Volume at Station 539+61.12	
Cut Area (SF)	89.35
Fill Area (SF)	5.25
Cut Volume (CY)	37
Fill Volume (CY)	2



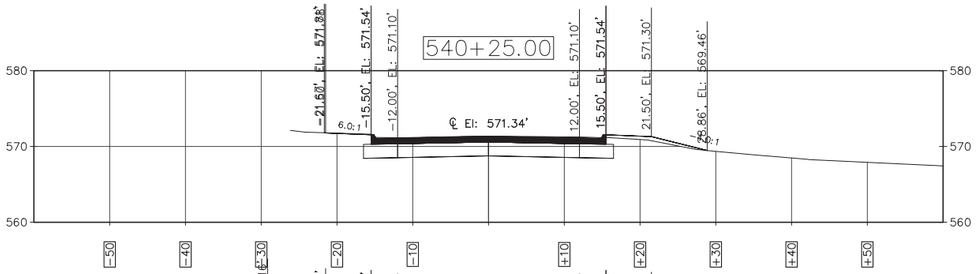
Total Volume at Station 539+50.00	
Cut Area (SF)	90.53
Fill Area (SF)	3.19
Cut Volume (CY)	47
Fill Volume (CY)	1



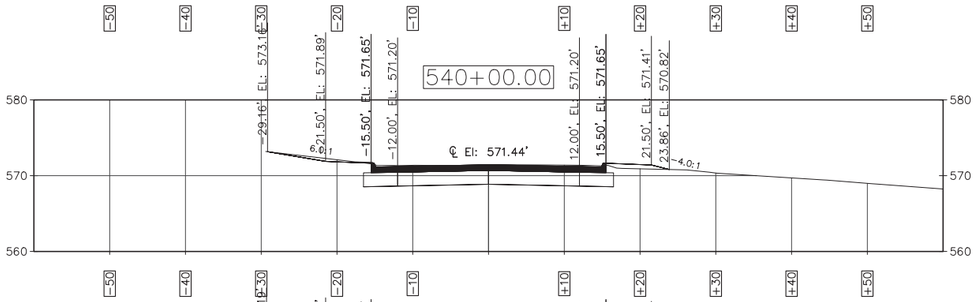
Total Volume at Station 539+35.82	
Cut Area (SF)	89.96
Fill Area (SF)	2.27
Cut Volume (CY)	36
Fill Volume (CY)	1



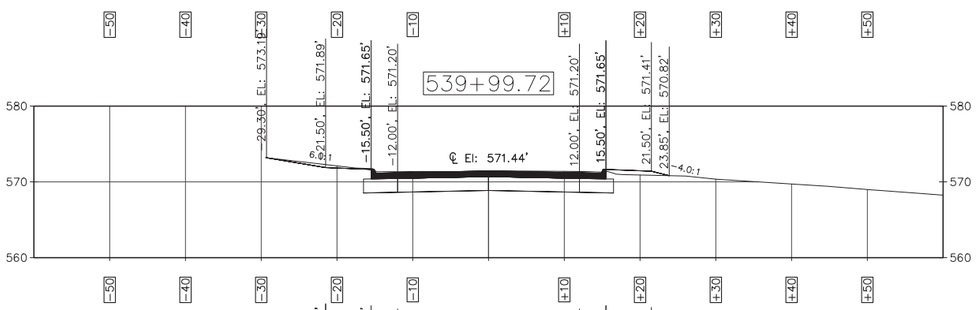
Total Volume at Station 539+25.00	
Cut Area (SF)	90.10
Fill Area (SF)	2.15
Cut Volume (CY)	47
Fill Volume (CY)	2



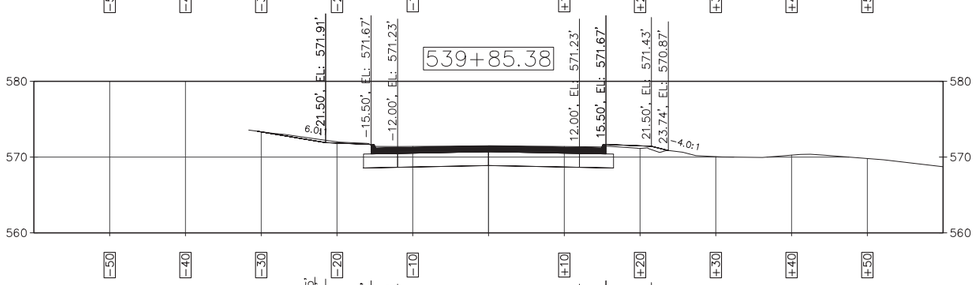
Total Volume at Station 540+25.00	
Cut Area (SF)	88.99
Fill Area (SF)	5.68
Cut Volume (CY)	85
Fill Volume (CY)	4



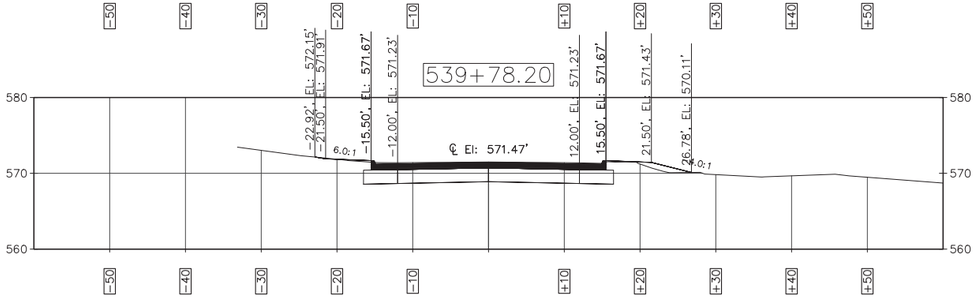
Total Volume at Station 540+00.00	
Cut Area (SF)	94.68
Fill Area (SF)	3.47
Cut Volume (CY)	1
Fill Volume (CY)	0



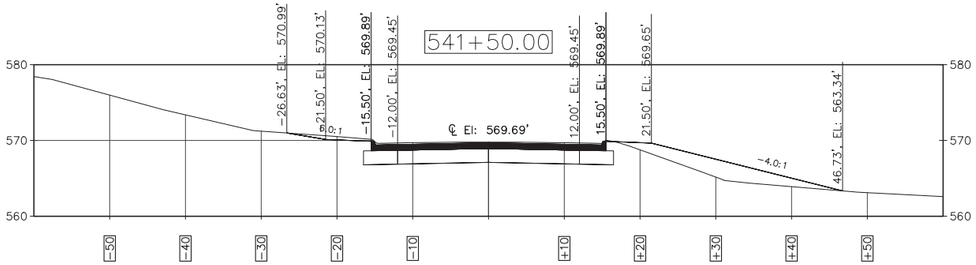
Total Volume at Station 539+99.72	
Cut Area (SF)	94.73
Fill Area (SF)	3.45
Cut Volume (CY)	50
Fill Volume (CY)	2



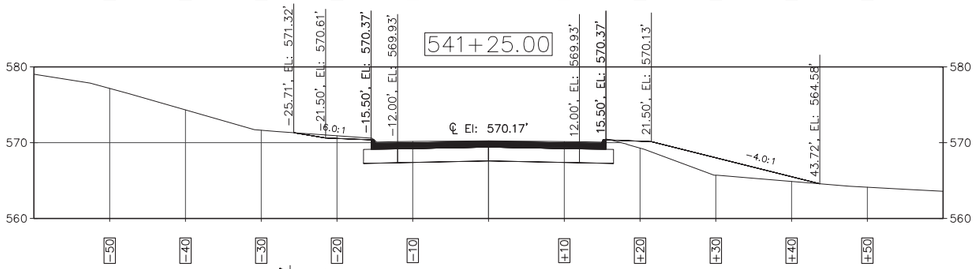
Total Volume at Station 539+85.38	
Cut Area (SF)	93.30
Fill Area (SF)	2.31
Cut Volume (CY)	24
Fill Volume (CY)	1



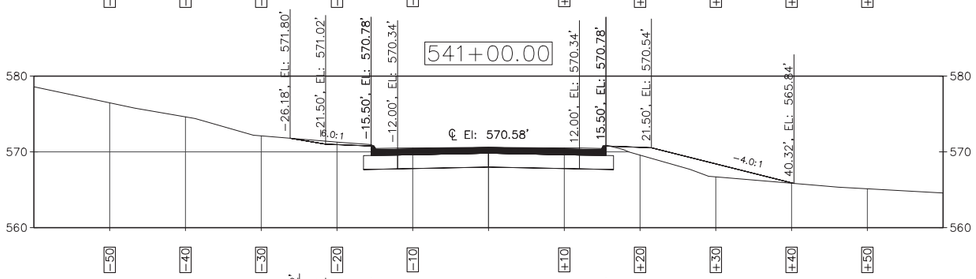
Total Volume at Station 539+78.20	
Cut Area (SF)	89.81
Fill Area (SF)	5.12
Cut Volume (CY)	11
Fill Volume (CY)	1



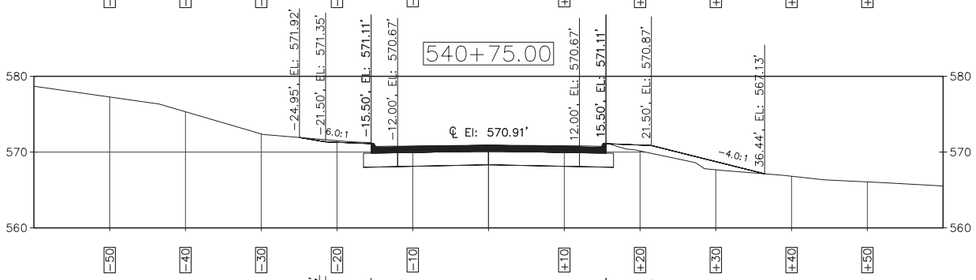
Total Volume at Station 541+50.00	
Cut Area (SF)	95.85
Fill Area (SF)	42.31
Cut Volume (CY)	88
Fill Volume (CY)	36



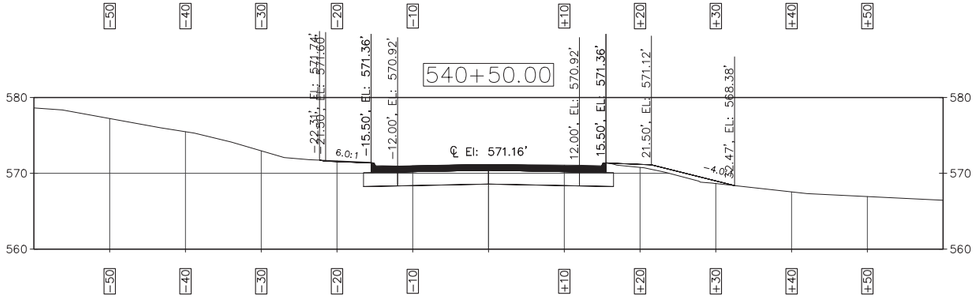
Total Volume at Station 541+25.00	
Cut Area (SF)	93.98
Fill Area (SF)	35.03
Cut Volume (CY)	86
Fill Volume (CY)	28



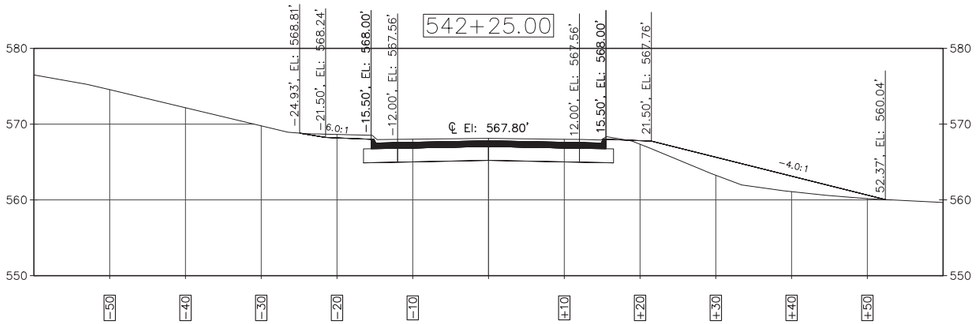
Total Volume at Station 541+00.00	
Cut Area (SF)	92.62
Fill Area (SF)	26.11
Cut Volume (CY)	85
Fill Volume (CY)	19



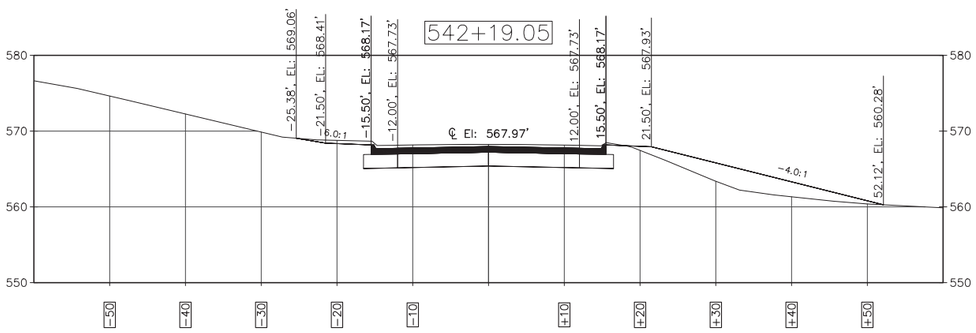
Total Volume at Station 540+75.00	
Cut Area (SF)	90.79
Fill Area (SF)	15.14
Cut Volume (CY)	83
Fill Volume (CY)	11



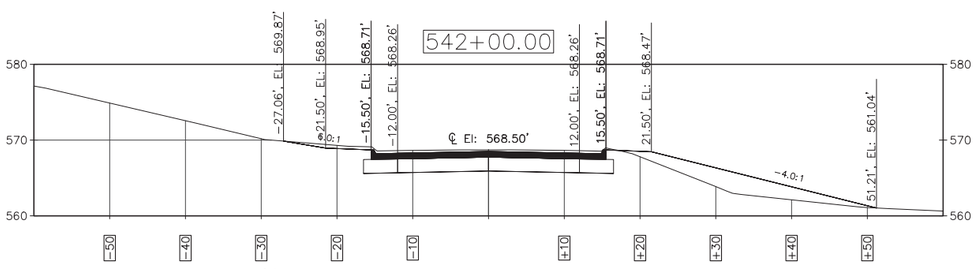
Total Volume at Station 540+50.00	
Cut Area (SF)	89.17
Fill Area (SF)	7.62
Cut Volume (CY)	82
Fill Volume (CY)	6



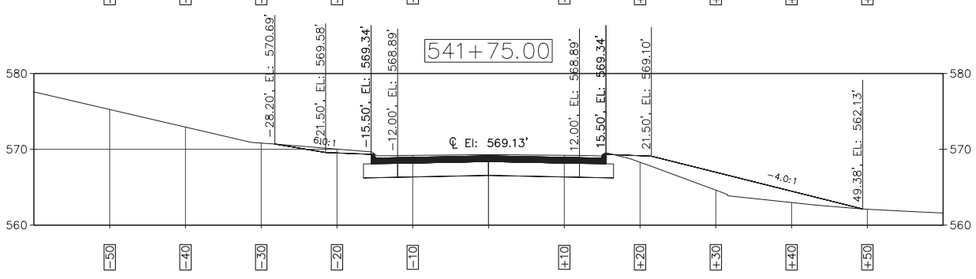
Total Volume at Station 542+25.00	
Cut Area (SF)	102.57
Fill Area (SF)	54.44
Cut Volume (CY)	22
Fill Volume (CY)	12



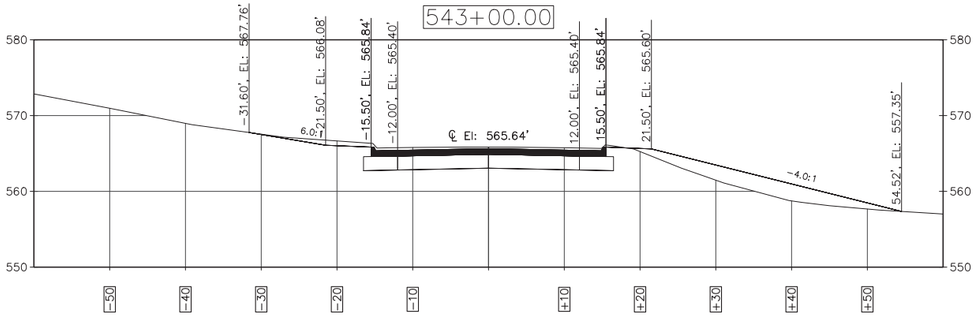
Total Volume at Station 542+19.05	
Cut Area (SF)	101.48
Fill Area (SF)	54.00
Cut Volume (CY)	71
Fill Volume (CY)	37



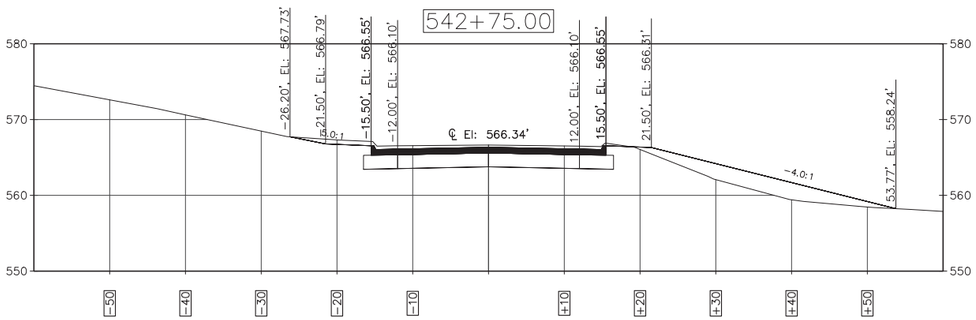
Total Volume at Station 542+00.00	
Cut Area (SF)	99.81
Fill Area (SF)	51.95
Cut Volume (CY)	92
Fill Volume (CY)	46



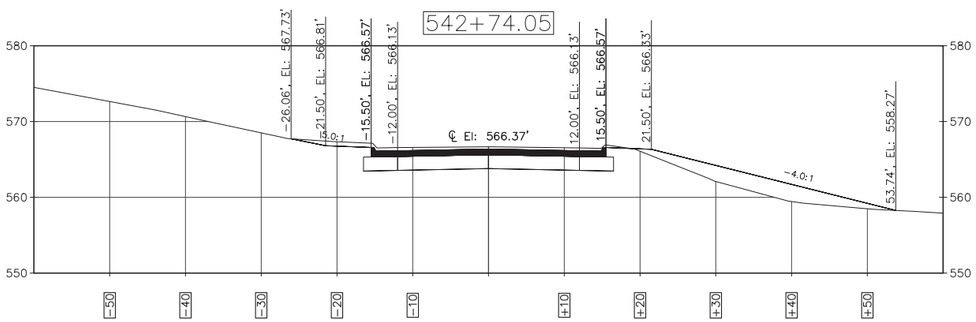
Total Volume at Station 541+75.00	
Cut Area (SF)	98.78
Fill Area (SF)	47.53
Cut Volume (CY)	90
Fill Volume (CY)	42



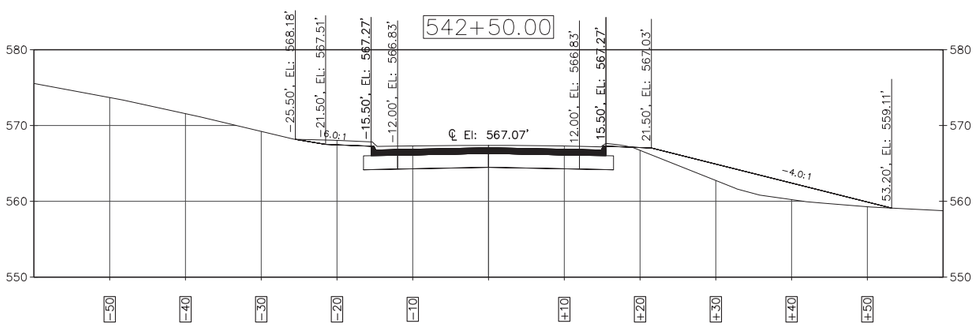
Total Volume at Station 543+00.00	
Cut Area (SF)	102.36
Fill Area (SF)	53.76
Cut Volume (CY)	95
Fill Volume (CY)	49



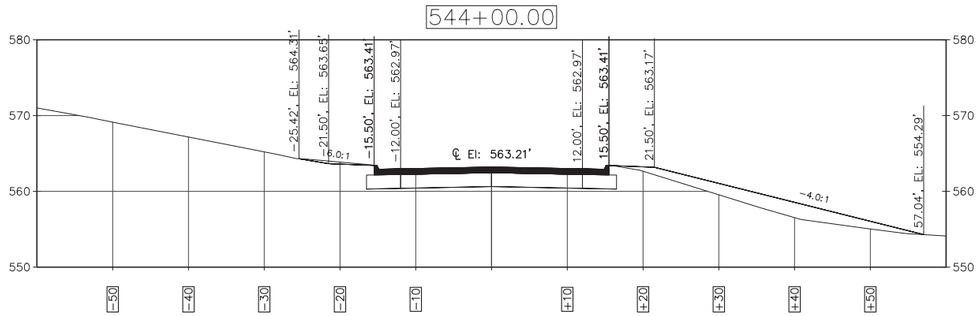
Total Volume at Station 542+75.00	
Cut Area (SF)	103.73
Fill Area (SF)	52.28
Cut Volume (CY)	4
Fill Volume (CY)	2



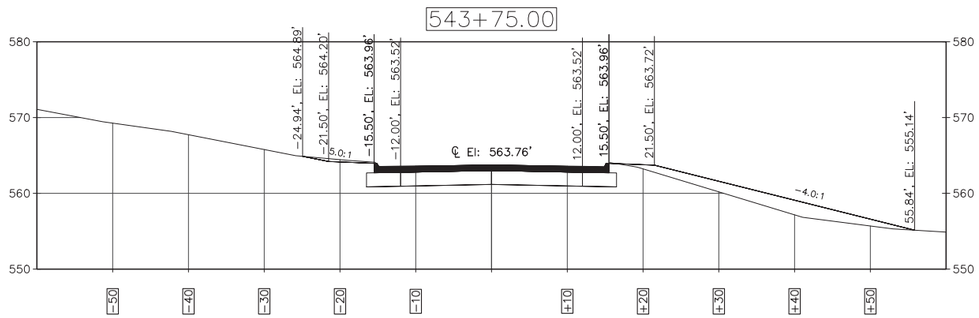
Total Volume at Station 542+74.05	
Cut Area (SF)	103.65
Fill Area (SF)	52.42
Cut Volume (CY)	93
Fill Volume (CY)	48



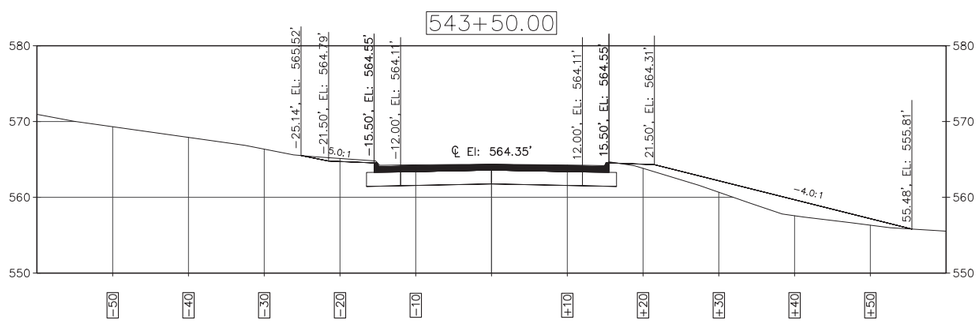
Total Volume at Station 542+50.00	
Cut Area (SF)	104.20
Fill Area (SF)	54.34
Cut Volume (CY)	96
Fill Volume (CY)	50



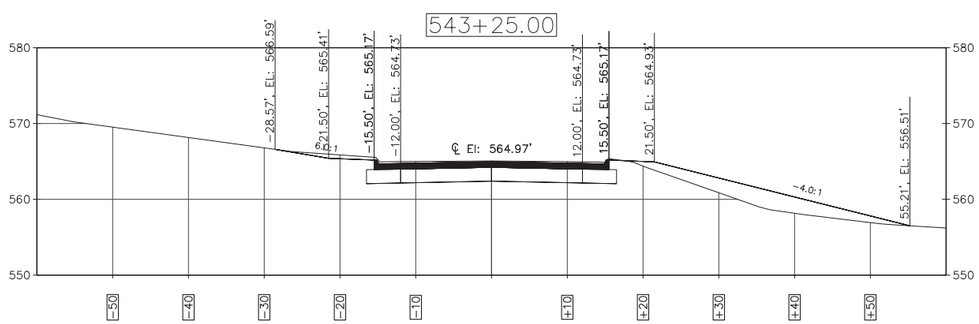
Total Volume at Station 544+00.00	
Cut Area (SF)	86.11
Fill Area (SF)	50.41
Cut Volume (CY)	81
Fill Volume (CY)	45



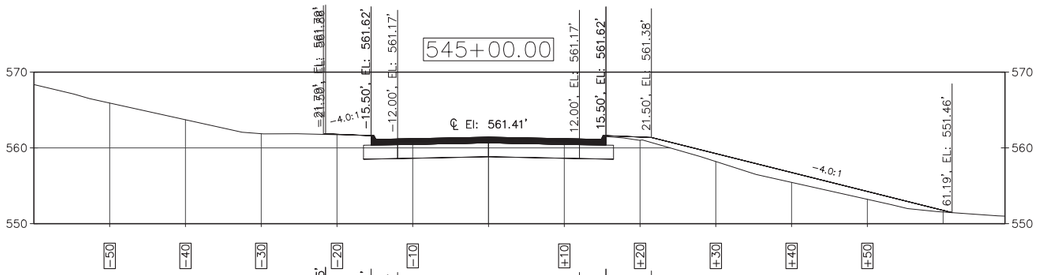
Total Volume at Station 543+75.00	
Cut Area (SF)	89.02
Fill Area (SF)	46.58
Cut Volume (CY)	84
Fill Volume (CY)	44



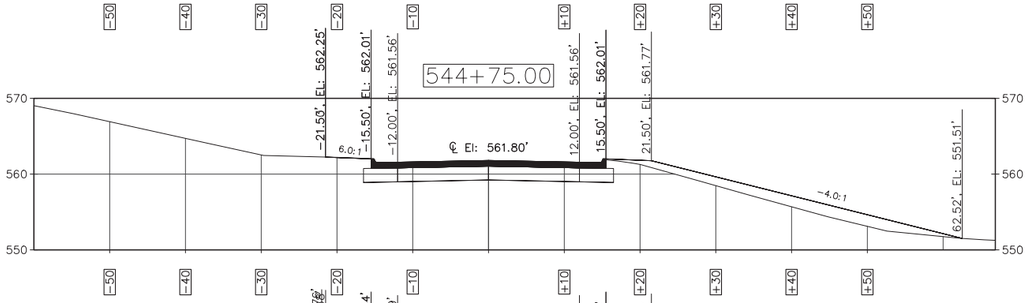
Total Volume at Station 543+50.00	
Cut Area (SF)	92.43
Fill Area (SF)	49.04
Cut Volume (CY)	88
Fill Volume (CY)	48



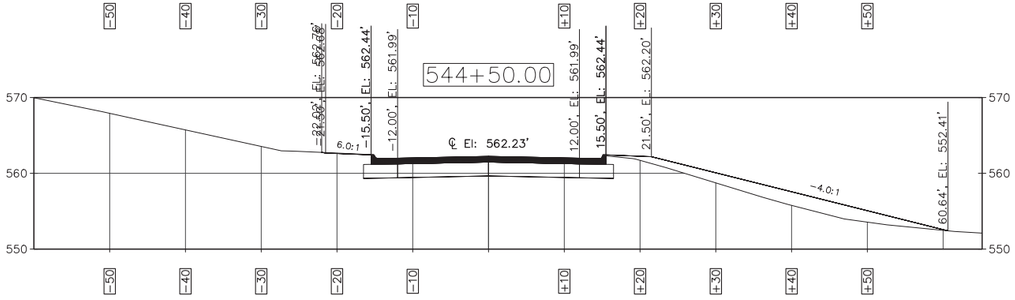
Total Volume at Station 543+25.00	
Cut Area (SF)	96.74
Fill Area (SF)	55.42
Cut Volume (CY)	92
Fill Volume (CY)	51



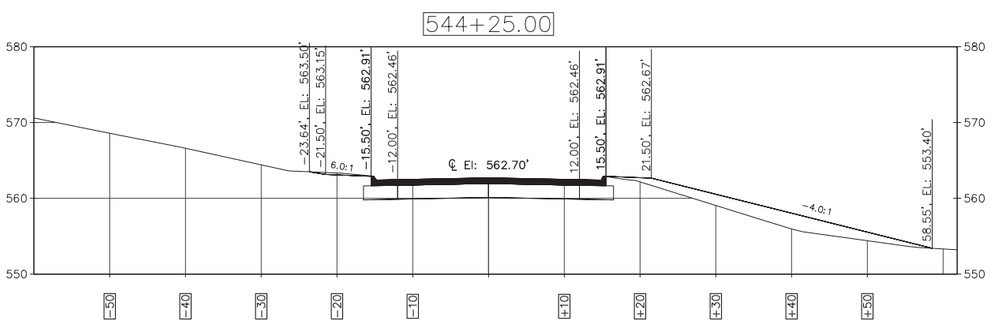
Total Volume at Station 545+00.00	
Cut Area (SF)	85.22
Fill Area (SF)	41.72
Cut Volume (CY)	78
Fill Volume (CY)	43



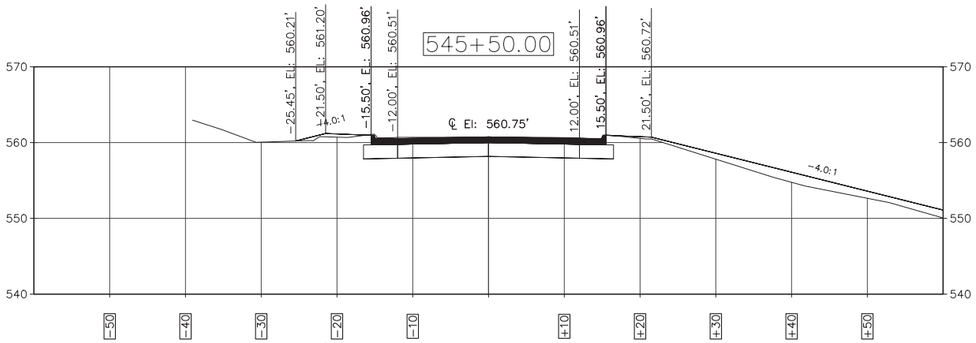
Total Volume at Station 544+75.00	
Cut Area (SF)	82.79
Fill Area (SF)	51.05
Cut Volume (CY)	77
Fill Volume (CY)	49



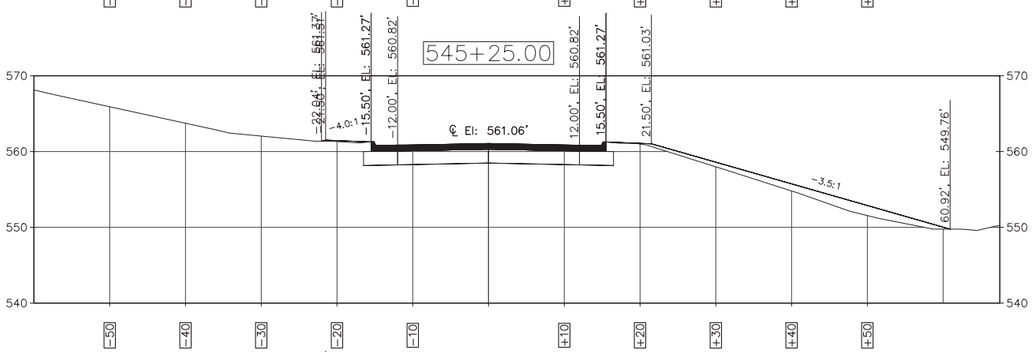
Total Volume at Station 544+50.00	
Cut Area (SF)	82.72
Fill Area (SF)	53.83
Cut Volume (CY)	78
Fill Volume (CY)	49



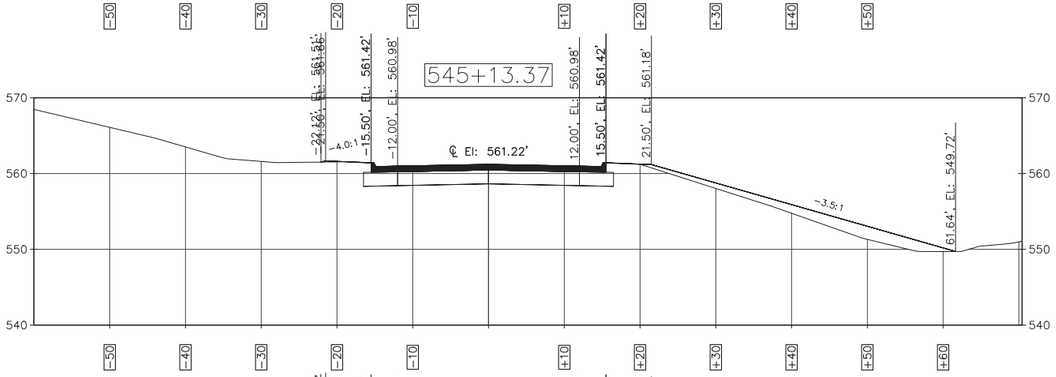
Total Volume at Station 544+25.00	
Cut Area (SF)	85.00
Fill Area (SF)	52.91
Cut Volume (CY)	79
Fill Volume (CY)	48



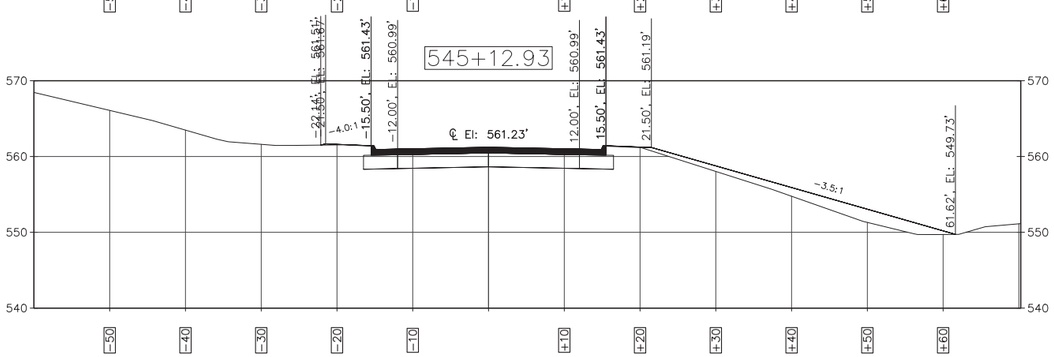
Total Volume at Station 545+50.00	
Cut Area (SF)	89.01
Fill Area (SF)	39.84
Cut Volume (CY)	81
Fill Volume (CY)	35



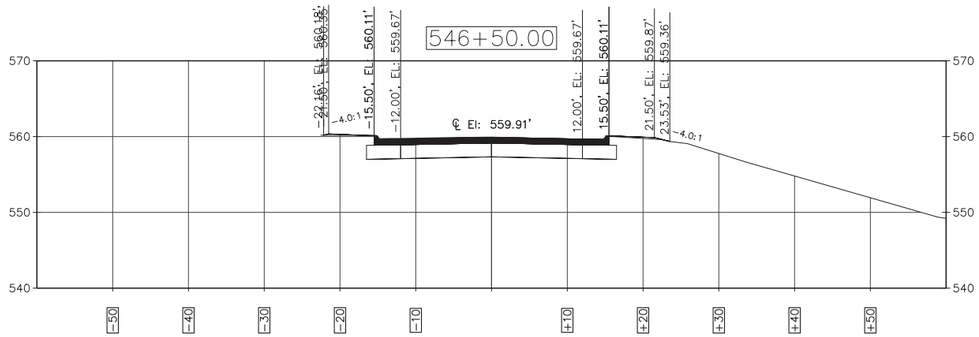
Total Volume at Station 545+25.00	
Cut Area (SF)	86.36
Fill Area (SF)	35.30
Cut Volume (CY)	37
Fill Volume (CY)	17



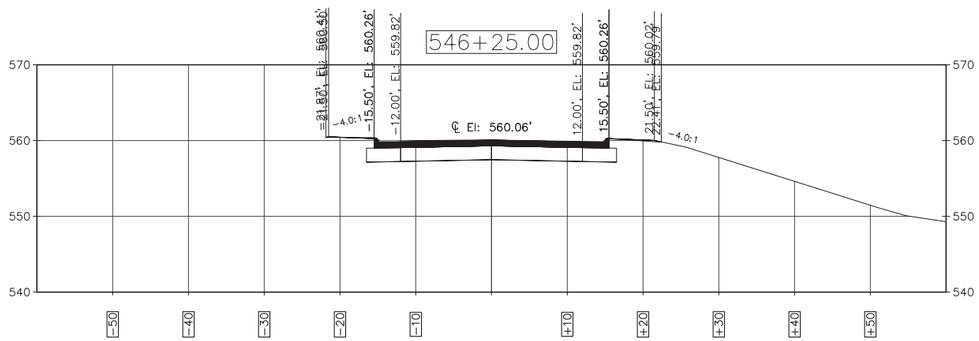
Total Volume at Station 545+13.37	
Cut Area (SF)	84.20
Fill Area (SF)	43.92
Cut Volume (CY)	1
Fill Volume (CY)	1



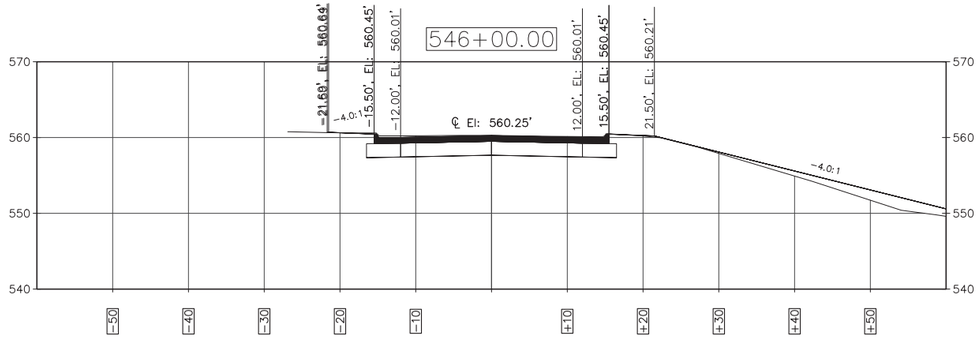
Total Volume at Station 545+12.93	
Cut Area (SF)	84.11
Fill Area (SF)	44.17
Cut Volume (CY)	41
Fill Volume (CY)	21



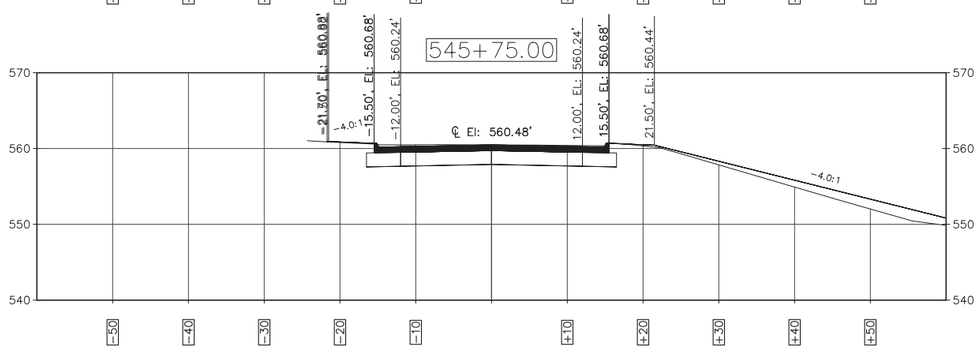
Total Volume at Station 546+50.00	
Cut Area (SF)	88.88
Fill Area (SF)	2.98
Cut Volume (CY)	83
Fill Volume (CY)	10



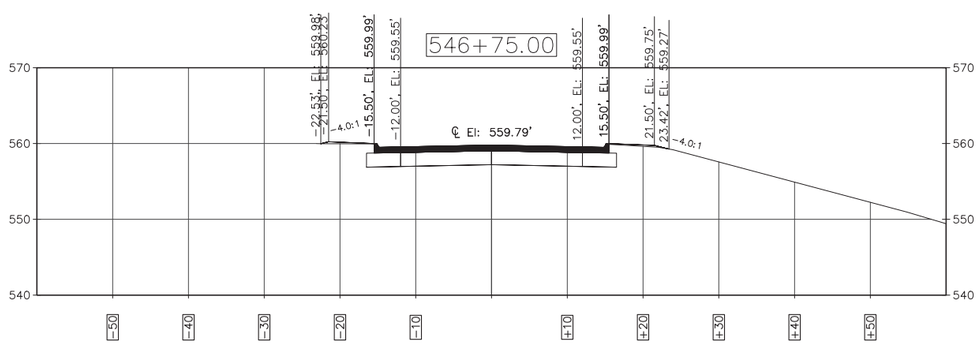
Total Volume at Station 546+25.00	
Cut Area (SF)	89.84
Fill Area (SF)	19.41
Cut Volume (CY)	84
Fill Volume (CY)	22



Total Volume at Station 546+00.00	
Cut Area (SF)	90.55
Fill Area (SF)	29.00
Cut Volume (CY)	84
Fill Volume (CY)	30



Total Volume at Station 545+75.00	
Cut Area (SF)	90.90
Fill Area (SF)	34.79
Cut Volume (CY)	83
Fill Volume (CY)	35



Total Volume at Station 546+75.00	
Cut Area (SF)	85.89
Fill Area (SF)	1.95
Cut Volume (CY)	81
Fill Volume (CY)	2