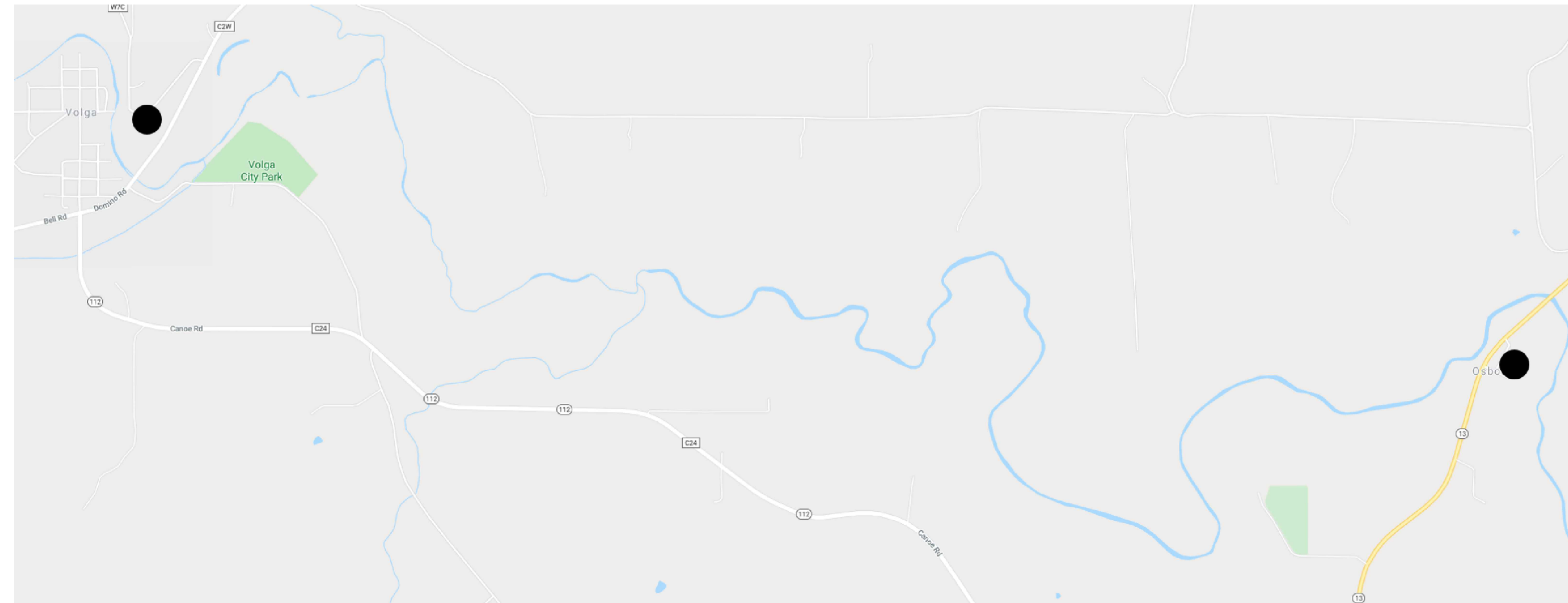


TopTier Design Engineers

RURAL TRAIL CONSTRUCTION BID PLANS OF PROPOSED
VOLGA RIVER
CLAYTON COUNTY
CEE: 4850

PROJECT DESCRIPTION:

A RURAL TRAIL IS TO BE DESIGNED ALONG THE VOLGA RIVER, CONNECTING THE VOLGA CAMPGROUNDS TO THE OSBORNE COMMUNITY CENTER. THE TRAIL SHALL ACCOMMODATE A VARIETY OF MODES OF TRANSPORTATION: WALKING, RUNNING, BIKING, HORSEBACK RIDING, AND ATV RIDING



CLIENTS:

JENNA POLLOCK
TOM LOTT
CARRIE TAYLOR
KELLY MURPHY
MATT SHAFFER

DESIGNERS:

JUSTIN THIEMANN
TAYLOR GARCIA
JACK CROTHERS
SARAH RITCHIE

TABLE OF CONTENTS	
GENERAL NOTES	N-01
SITE PLAN	SP-01 – SP-04
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PLAN AND PROFILE	PP-01 – PP-50
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VOLUME TABLES	VT-01 – VT-11

TABULATION OF LENGTH, ELEVATION & DESIGN DATA

LENGTH	FEET	MILES
LENGTH	44019.93	8.34
ELEVATION		FEET
START ELEVATION		794.1
END ELEVATION		782.0
MAXIMUM ELEVATION		845.5
MINIMUM ELEVATION		746.4
DESIGN DATA		
MINIMUM RADIUS OF CURVATURE		30 Ft
MAXIMUM GRADE		5.00%
MINIMUM K-VALUE (SAG CURVE)		10
MINIMUM K-VALUE (CREST CURVE)		3
MAXIMUM DESIGN SPEED		15 MPH
RIGHT OF WAY WIDTH		30 ft

PROJECT:	CEE: 4850
DATE :	4/17/2020
DRAWN BY:	cds
REVISION:	

THE UNIVERSITY OF IOWA
CIVIL AND ENVIRONMENTAL ENGINEERING
4105 SEAMANS CENTER FOR THE
ENGINEERING ARTS AND SCIENCES
103 S CAPITOL ST
IOWA CITY, IOWA 52242
PHONE: 319.335.5647
FAX: 319.335.5660
EMAIL: civil-hawks@iowa.edu



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Volga Trail

SHEET NAME
TITLE SHEET

SHEET NO.
T-01

SUBBASE:

1. SUBBASE SHALL CONSIST OF CRUSHED LIMESTONE WITH FINES.
2. SUBBASE SHALL BE COMPACTED TO 95% STANDARD PROCTOR DENSITY.
3. SUBBASE MAY ACT AS A GRAVEL PATH BEFORE P.C.C. OR ASPHALT PAVEMENT IS PLACED.
4. IF SUBBASE IS USED AS GRAVEL PATH, THE SUBGRADE MUST BE COMPACTED ONCE MORE.

TURF REINFORCEMENT MATS:

1. TURF REINFORCEMENT MATS SHALL BE INCLUDED TO THE TRAIL WHERE THERE IS RISK OF SCOURING IN FLOODING SITUATIONS
2. MATS SHALL CONSIST OF NYLON FILAMENT.
3. MATS SHALL BE APPLIED AFTER SEEDING SOIL.
4. MATS SHALL BE 4' WIDE PAST BOTH EDGES OF PAVEMENT.
5. MATS SHALL HAVE 95% OPEN AREA TO ALLOW FOR VEGETATION GROWTH.
6. MATS SHALL BE PLACED IN ACCORDANCE TO THE TABLE BELOW

P.C.C PAVING:

1. PAVEMENT SHALL BE 5" THICK AND 10' WIDE.
2. PAVEMENT SHALL HAVE A CROSS SLOPE OF 1.5% ANGLED DOWN TOWARD THE RIVER.
3. CONCRETE SHALL HAVE MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 3500 PSI.
4. SAW CUT JOINTS AS SOON AS CONCRETE HAS SET ENOUGH TO PREVENT RAVELING AND PRIOR TO ANY CRACKING.
5. SAW CUTS TO BE 1/8" TO 1/4" WIDE AND 1-1/4" DEEP.

TURF REINFORCEMENT MAT PLACEMENT LOCATIONS		
SECTION	START STATION	END STATION
1	0+00	14+00
2	34+00	47+00
3	90+00	110+00
4	150+00	157+00
5	303+00	327+00

ASPHALT PAVING:

1. PAVEMENT SHALL BE 5" THICK AND 10' WIDE.
2. PAVEMENT SHALL HAVE A CROSS SLOPE OF 1.5% ANGLED DOWN TOWARD THE RIVER.
3. PAVEMENT SHALL CONSIST OF 1" OF HIGH STABILITY ASPHALT ON A COURSE-GRADED BITUMINOUS BASE OF 4".

DETAIL CONTENTS	
SHEET	CONTENTS
D-01	MILE MARKERS
D-02	HANDRAILS
D-03	OUTLOOK POINTS
D-04	CULVERTS
D-05	CROSS SECTION
D-06	BRIDGES

PROJECT:	CEE: 4850
DATE :	4/17/2020
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REVISION:	

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 103 S CAPITOL ST
 IOWA CITY, IOWA 52242
 PHONE: 319.335.5647
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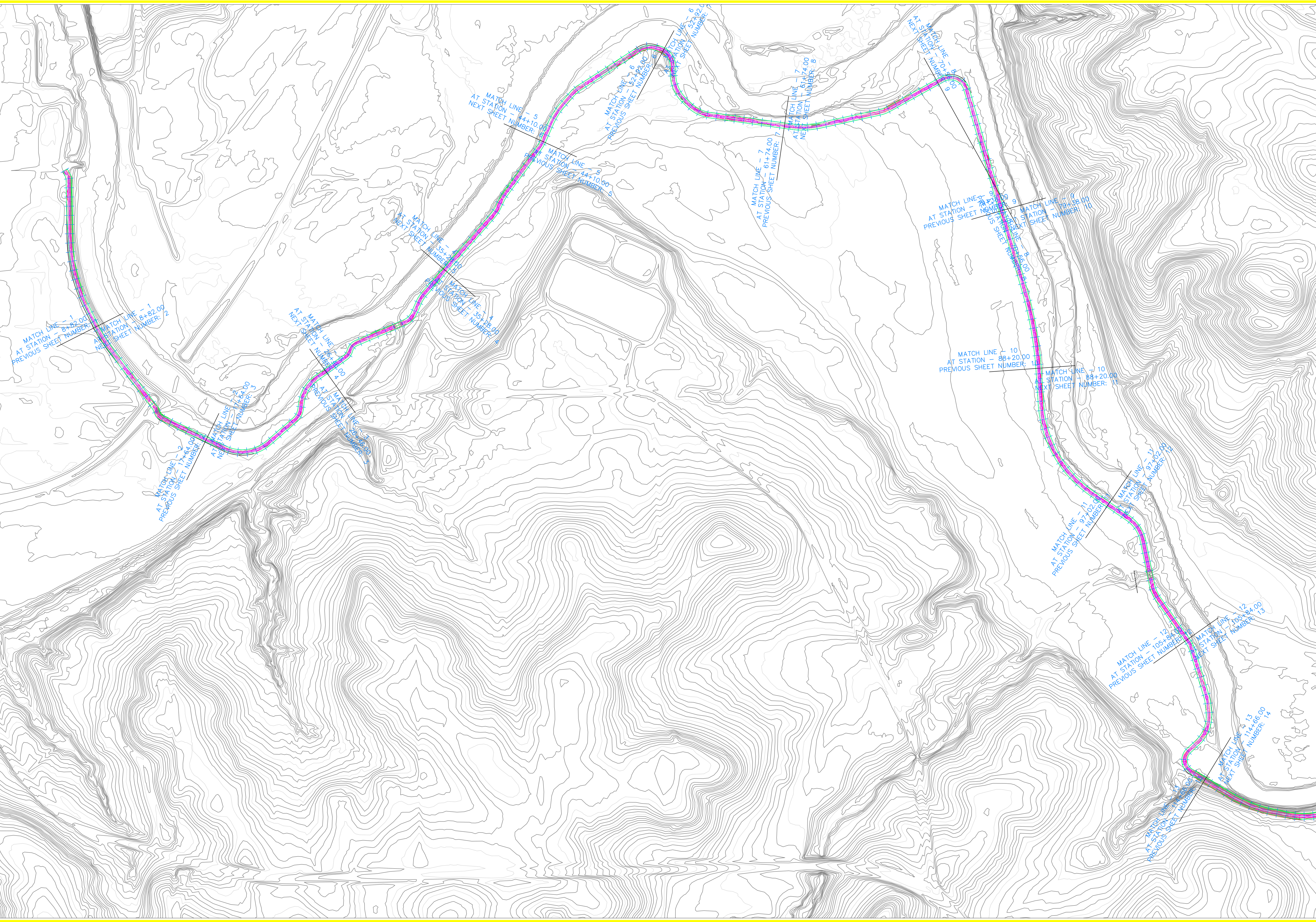
Volga Trail

SHEET NAME
 GENERAL NOTES

SHEET NO.
N-01

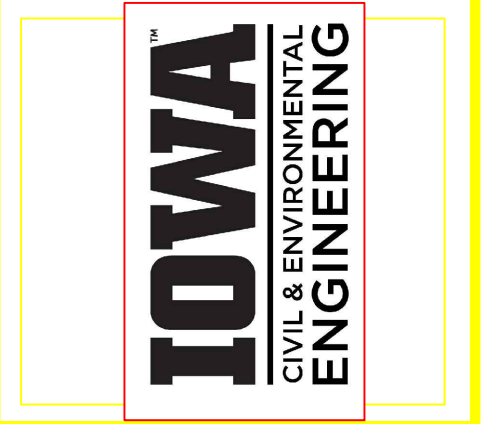
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PROJECT: CEE 4850
 DATE : 4/17/2020
 DRAWN BY: cds
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 103 S CAPITOL ST
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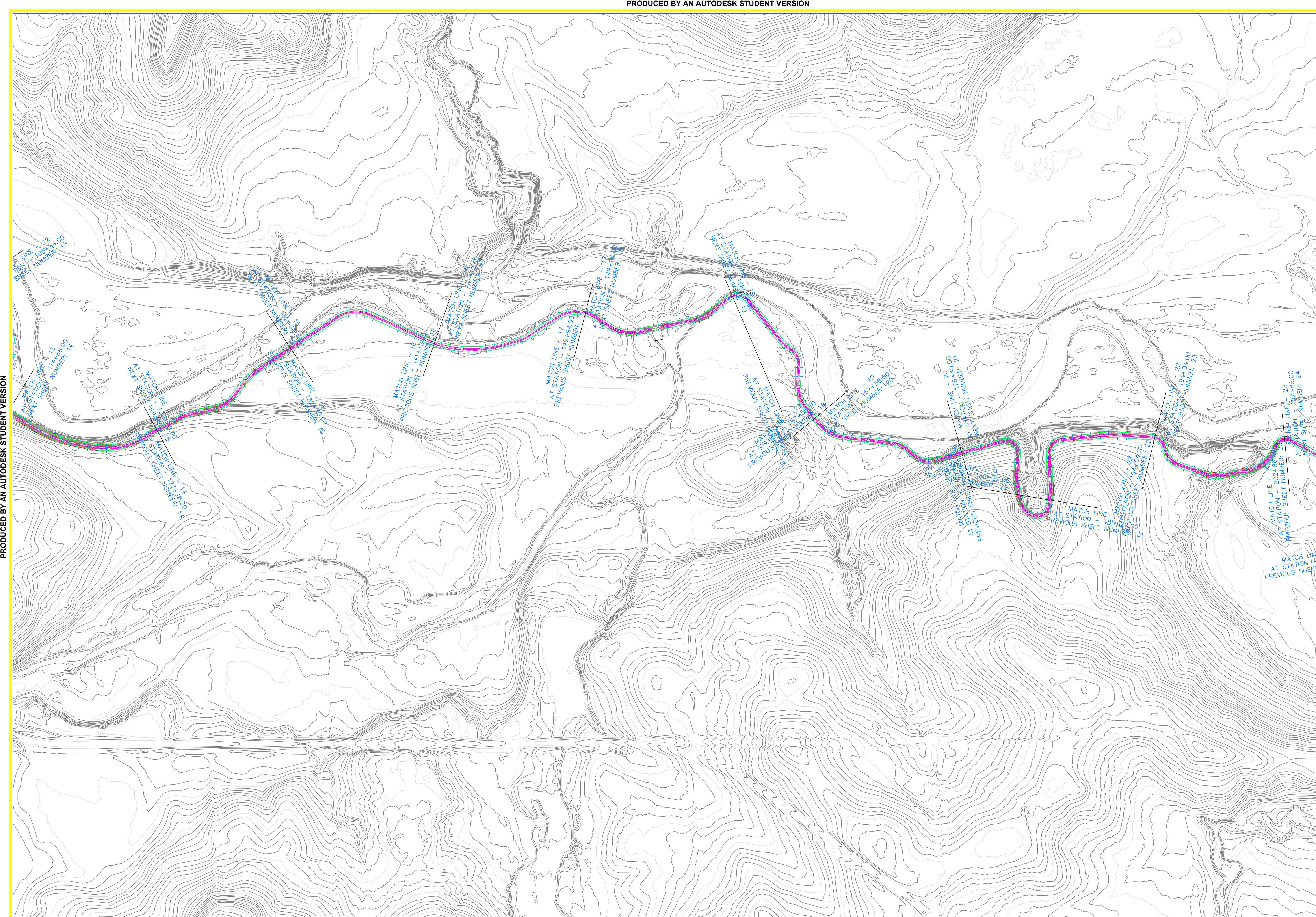
SHEET NAME
 SITE PLAN

SHEET NO.
SP-01

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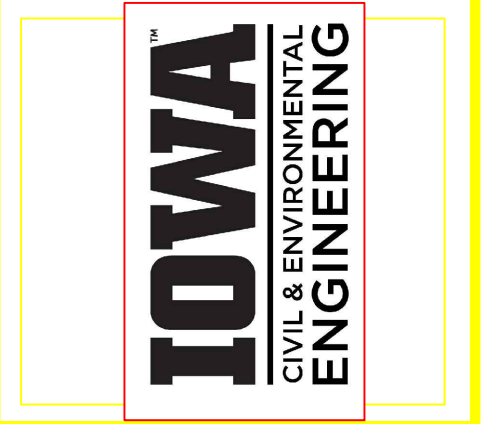
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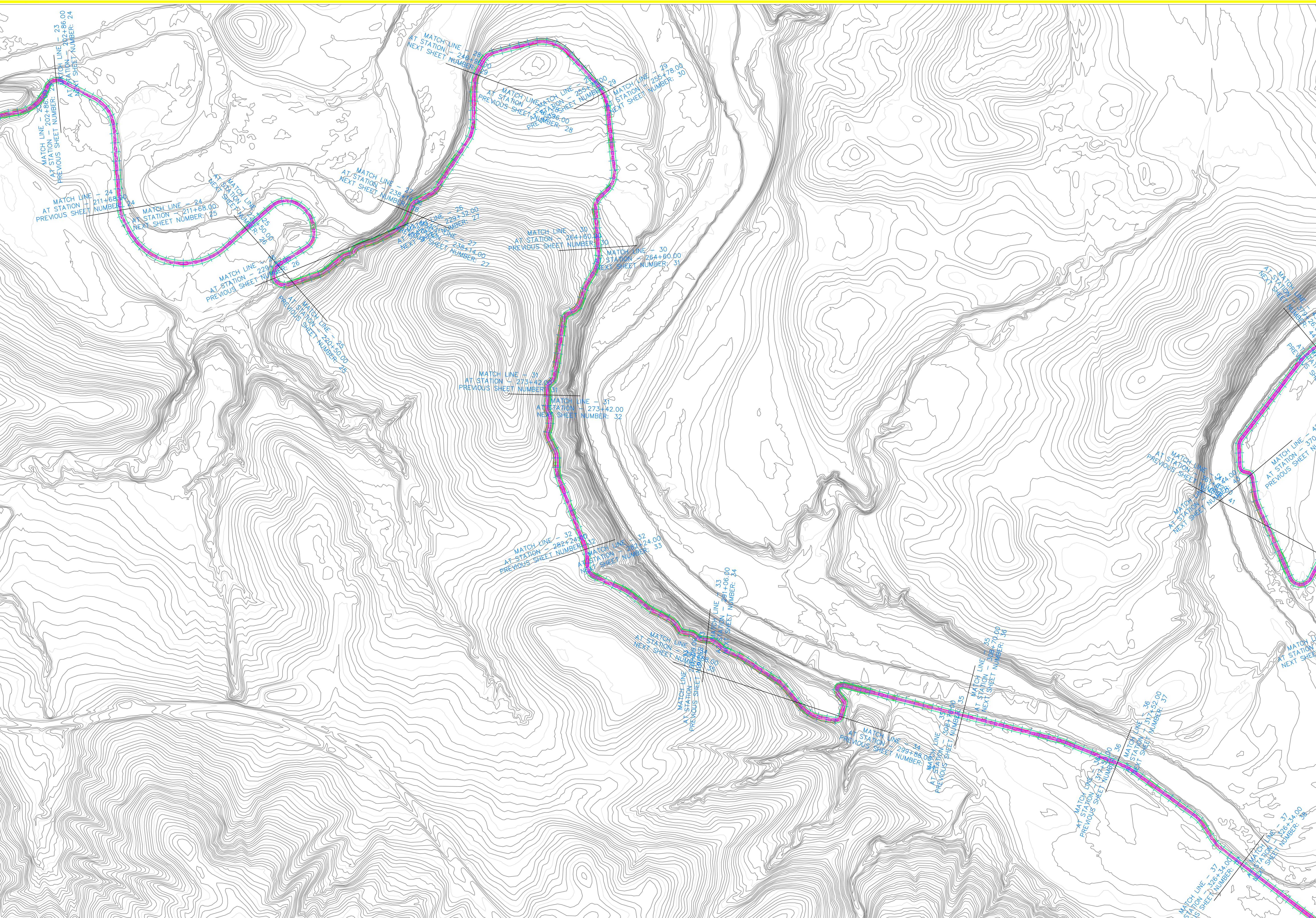
SHEET NAME	SITE PLAN
SHEET NO.	SP-02

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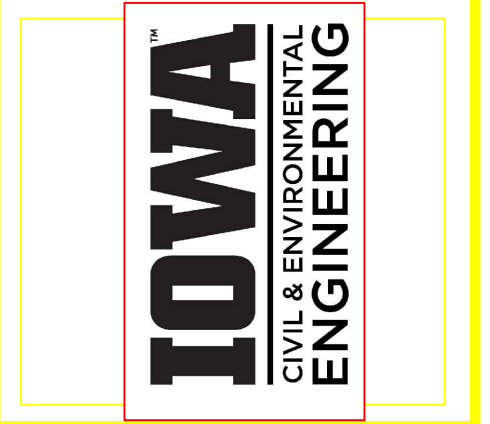
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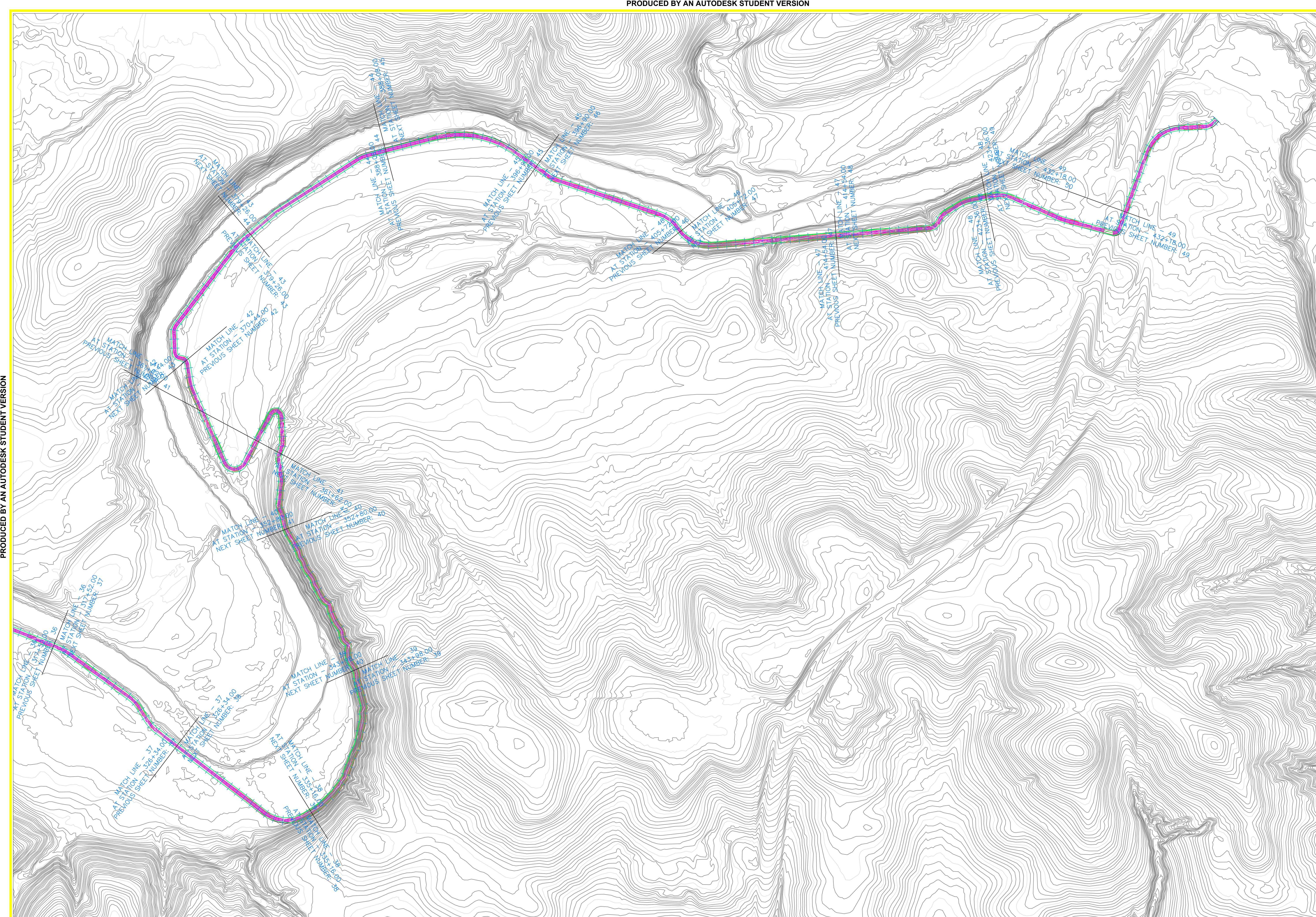
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Volga Trail	
SHEET NAME	SITE PLAN
SHEET NO.	SP-03

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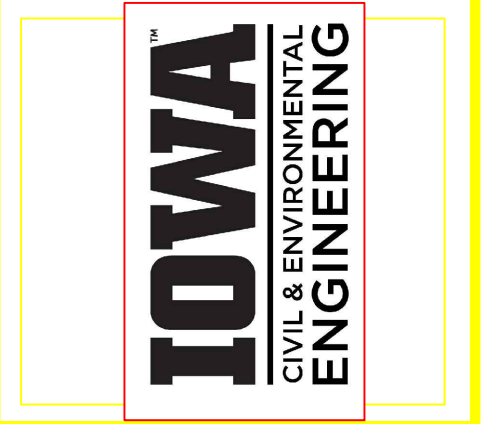
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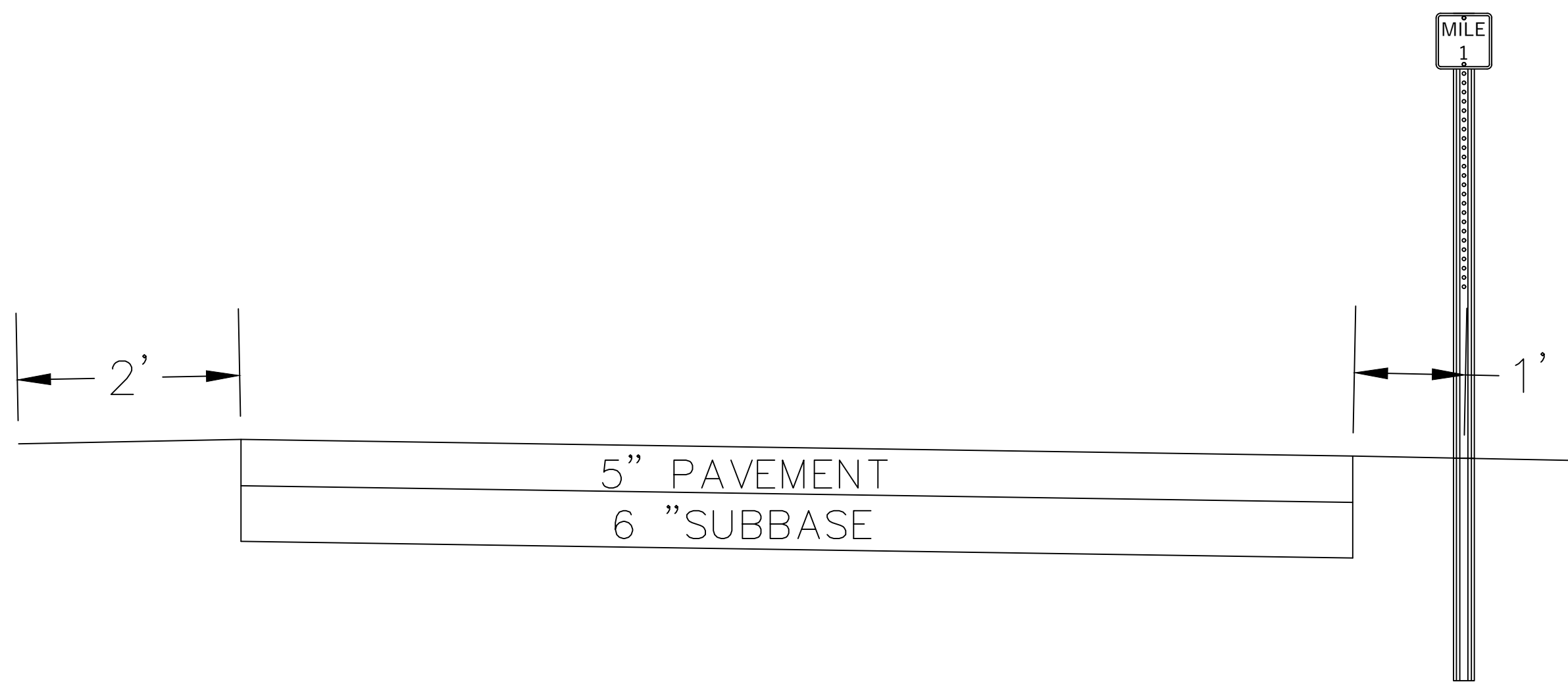
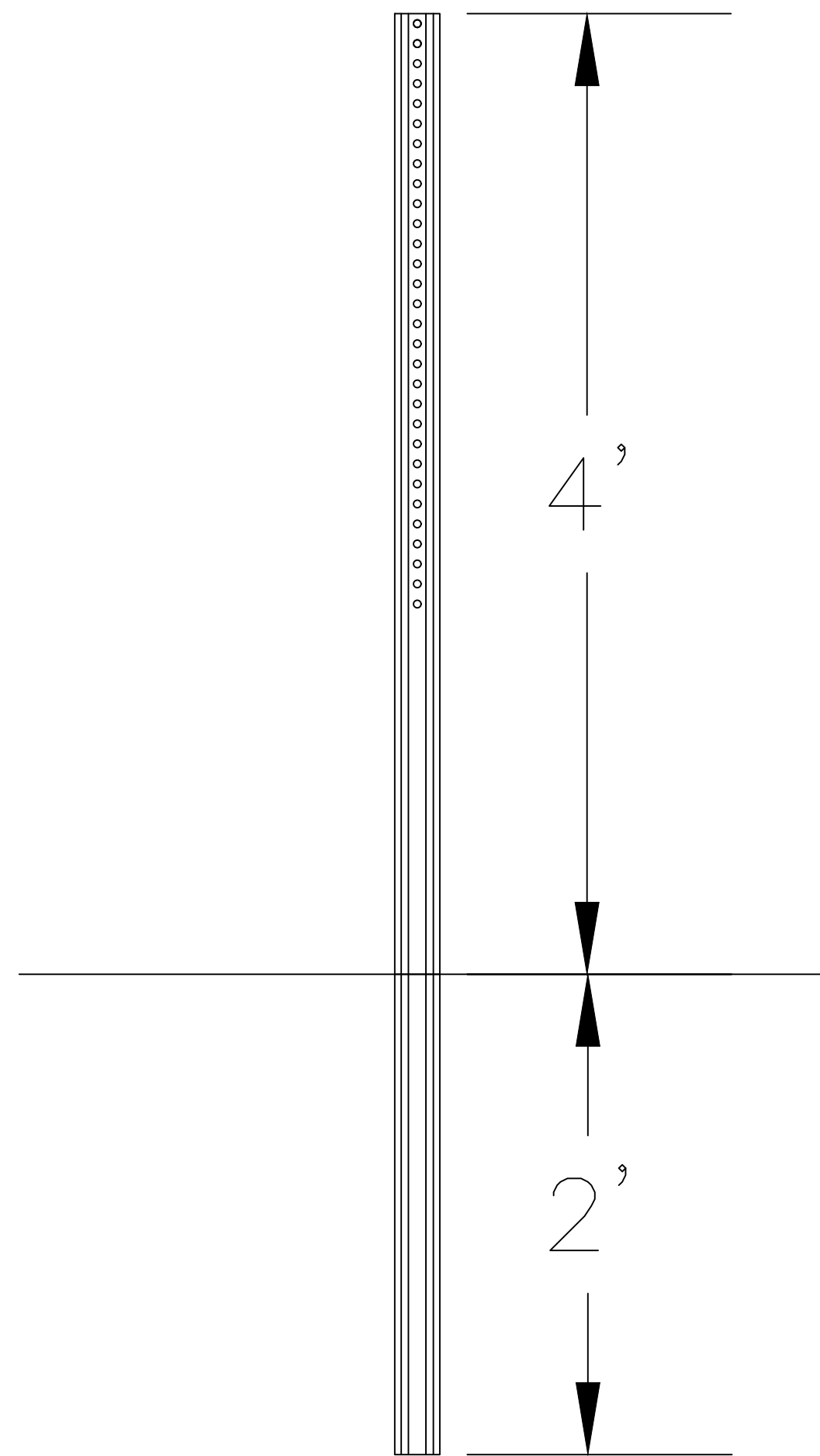
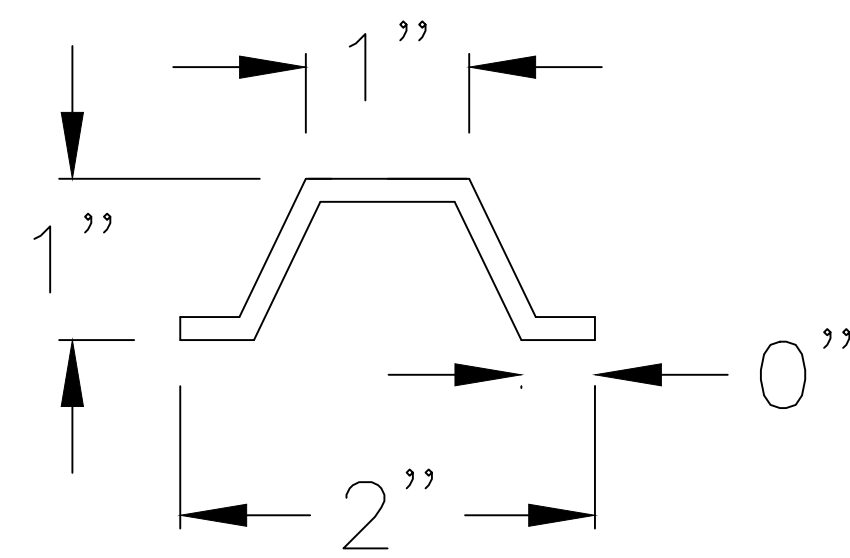
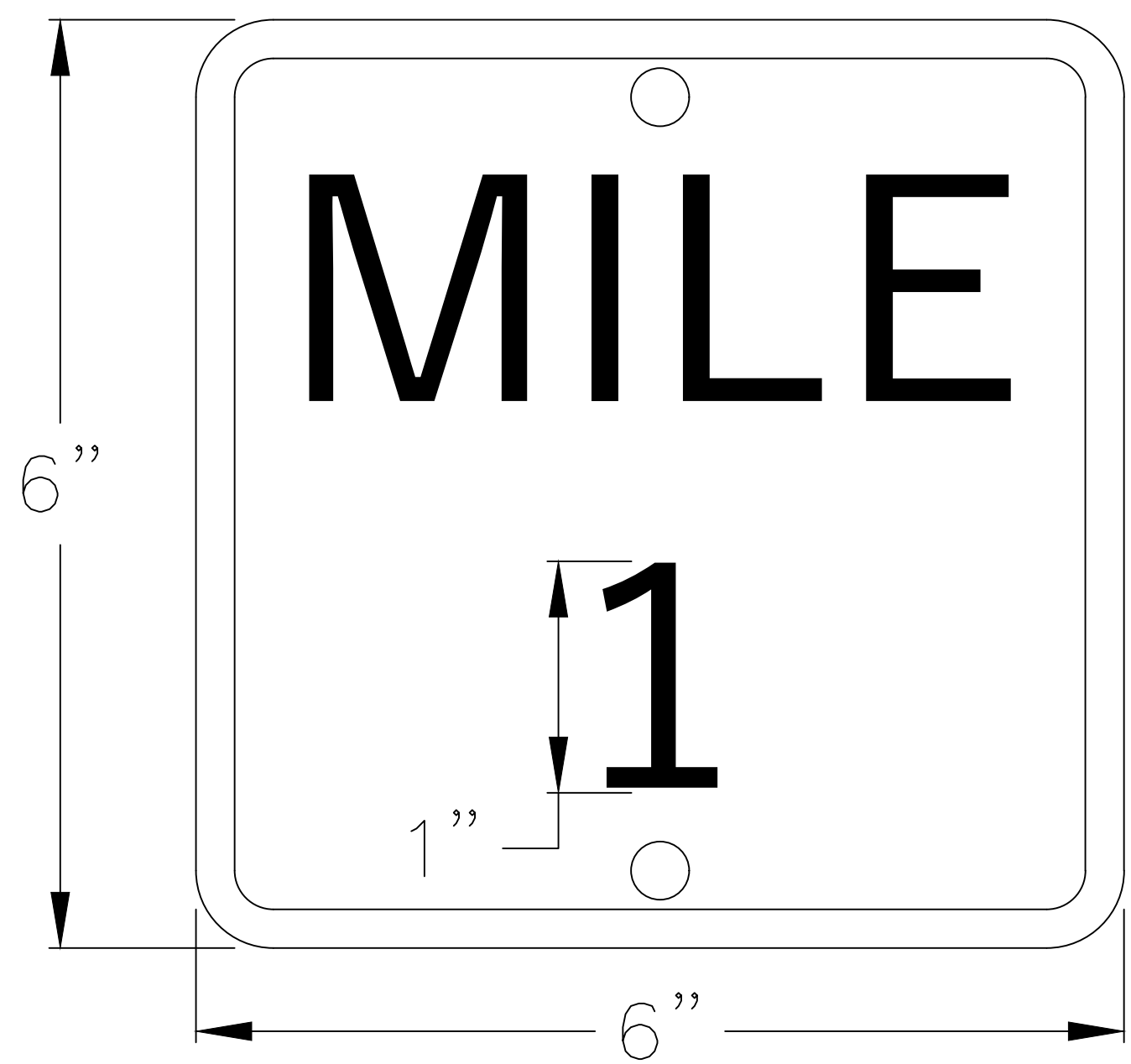
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Volga Trail

SHEET NAME
 SITE PLAN

SHEET NO.
SP-04

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MILE MARKERS:

1. POSTS SHALL CONSIST OF GALVANIZED 1.12 LBS/FT U-CHANNEL SIGN POSTS
2. POSTS SHALL BE 6' IN HEIGHT.
3. POSTS SHALL BE BURIED 24" IN THE GROUND AND 1' OUTSIDE EDGE OF PAVEMENT.
4. SIGNS SHALL CONSIST OF SHEET ALUMINUM WITH ADHESIVE PLASTIC COATINGS.
5. SIGNS SHALL BE 6" X 6"
6. MILE MARKERS SHALL BE PLACED IN ACCORDANCE TO THE TABLE TO THE RIGHT.

MILE MARKER PLACEMENT LOCATIONS		
MILE MARKER	STATION	SIDE OF PAVEMENT
8 (WEST)	17+60	LEFT
1 (EAST)	52+80	RIGHT
7 (WEST)	70+40	LEFT
2 (EAST)	105+60	RIGHT
6 (WEST)	123+20	LEFT
3 (EAST)	158+40	RIGHT
5 (WEST)	176+00	LEFT
4 (EAST)	211+20	RIGHT
4 (WEST)	228+80	LEFT
5 (EAST)	264+00	RIGHT
3 (WEST)	281+60	LEFT
6 (EAST)	316+80	RIGHT
2 (WEST)	334+40	LEFT
7 (EAST)	369+60	RIGHT
1 (WEST)	387+20	LEFT
8 (EAST)	422+40	RIGHT

PROJECT:	CEE-4E
DATE :	4/17/20
DRAWN BY:	
REVISION:	

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 4105 SEAMANS CENTER FOR THE
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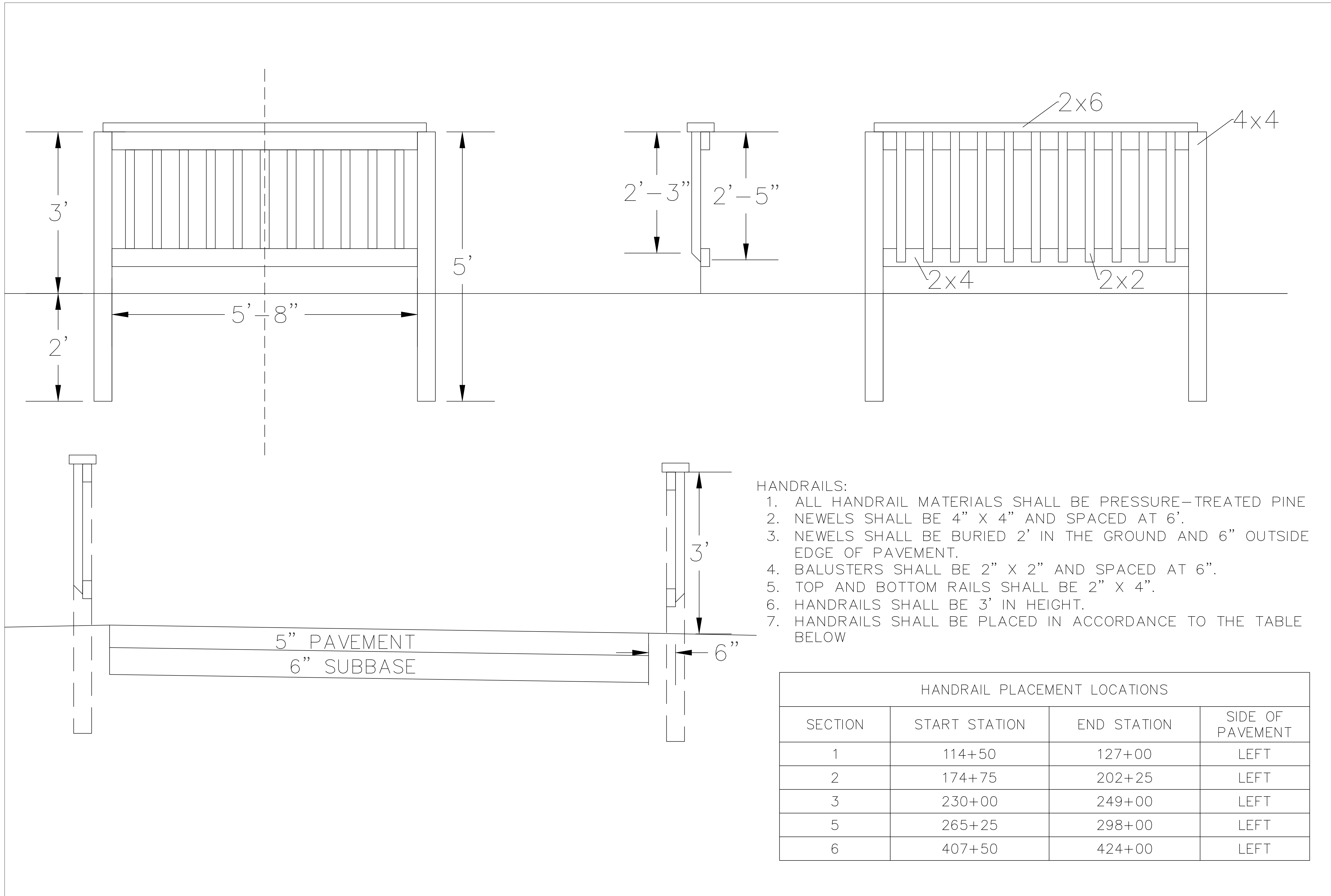
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Volga Trail

SHEET NAME
MILE MARKERS

SHEET NO.
D-01



HANDRAILS:

1. ALL HANDRAIL MATERIALS SHALL BE PRESSURE-TREATED PINE
2. NEWELS SHALL BE 4" X 4" AND SPACED AT 6'.
3. NEWELS SHALL BE BURIED 2' IN THE GROUND AND 6" OUTSIDE EDGE OF PAVEMENT.
4. BALUSTERS SHALL BE 2" X 2" AND SPACED AT 6".
5. TOP AND BOTTOM RAILS SHALL BE 2" X 4".
6. HANDRAILS SHALL BE 3' IN HEIGHT.
7. HANDRAILS SHALL BE PLACED IN ACCORDANCE TO THE TABLE BELOW

HANDRAIL PLACEMENT LOCATIONS			
SECTION	START STATION	END STATION	SIDE OF PAVEMENT
1	114+50	127+00	LEFT
2	174+75	202+25	LEFT
3	230+00	249+00	LEFT
5	265+25	298+00	LEFT
6	407+50	424+00	LEFT

PROJECT:	CEE:4E
DATE :	4/17/20
DRAWN BY:	
REVISION:	

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Volga Trail

SHEET NAME
HANDRAILS

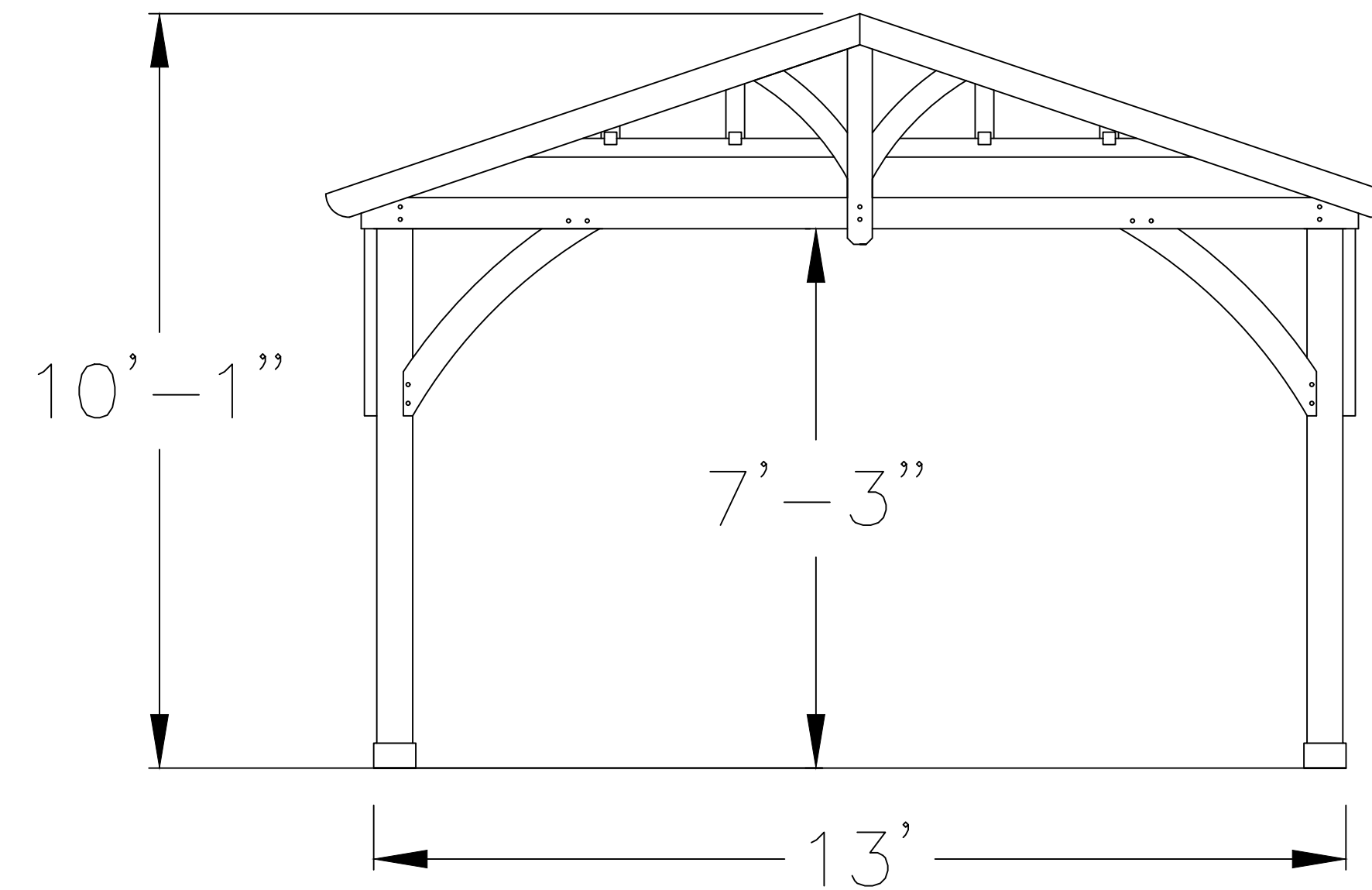
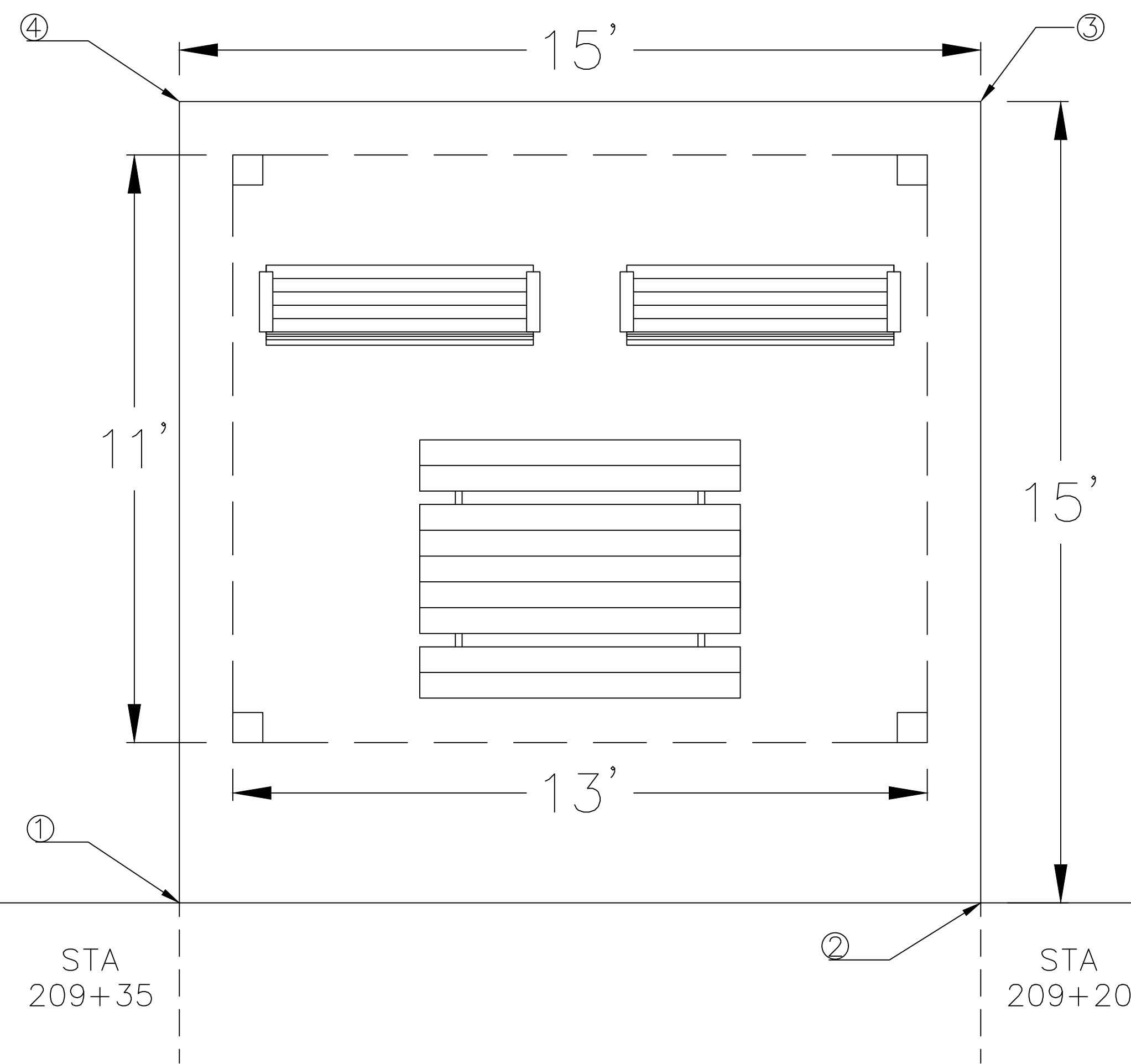
SHEET NO.
D-02

OUTLOOK POINT:

1. AN OUTLOOK POINT SHALL BE INSTALLED ON THE LEFT SIDE OF TRAIL PAVEMENT BETWEEN STATIONS 212+75 AND 212+90.
2. THE GRADING SHALL USE A CUT AND FILL SLOPE OF 4:1.
3. THE PAVEMENT SHALL BE 15' X 15' WITH AN 13' X 11' PAVILION OFFSET 1.0' IN FROM THE 3 OUTER EDGES OF PAVEMENT.
4. THE PAVEMENT SHALL BE 6" IN HEIGHT.
5. THE PAVILION SHALL HAVE A 7' - 3" CLEARANCE TO THE BOTTOM OF CROSS BEAM.
6. THE PAVILION SHALL MEET OR EXCEED THE SPECIFICATIONS OF THE YARDISTRY CAROLINA PAVILION.

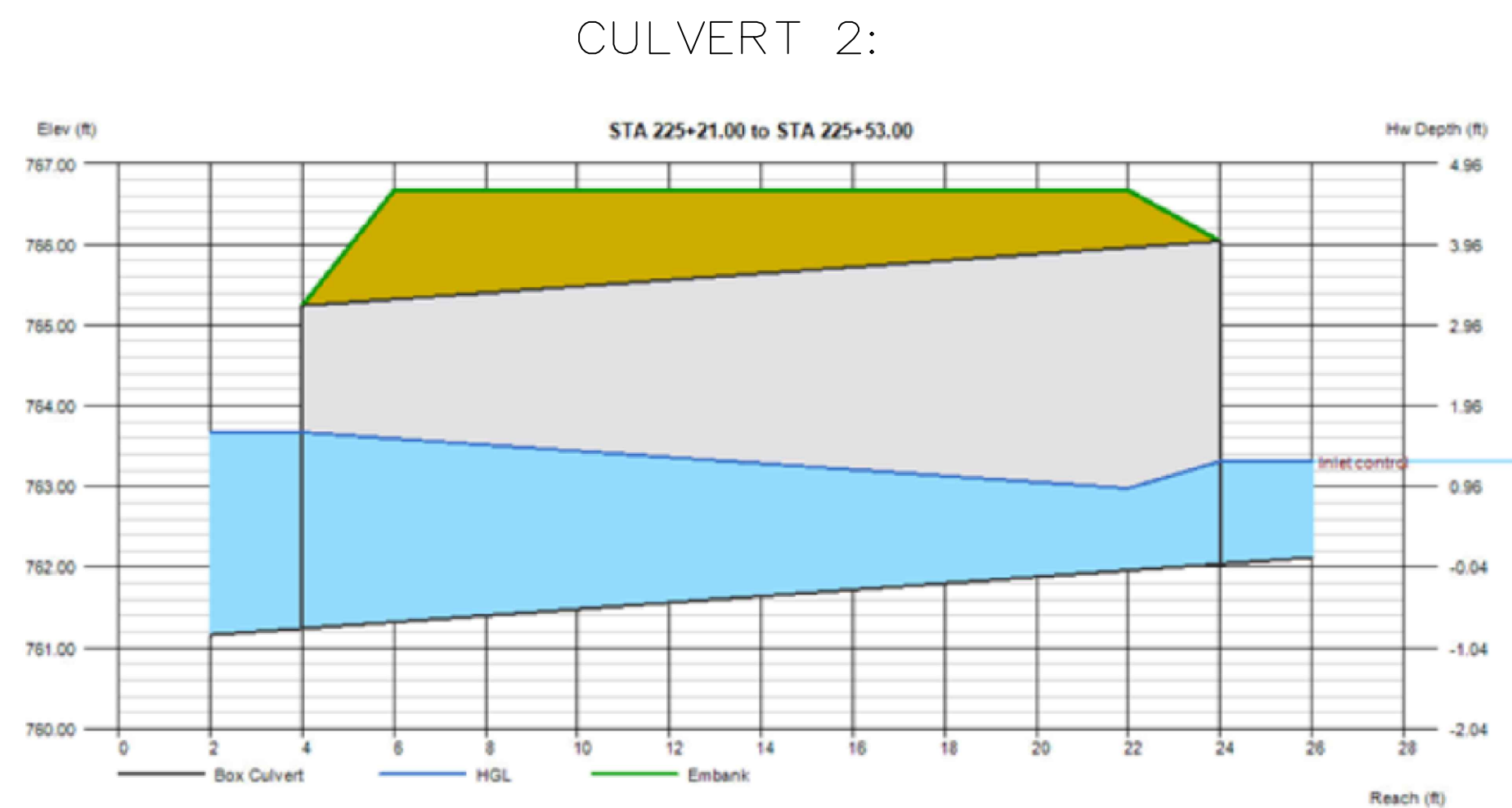
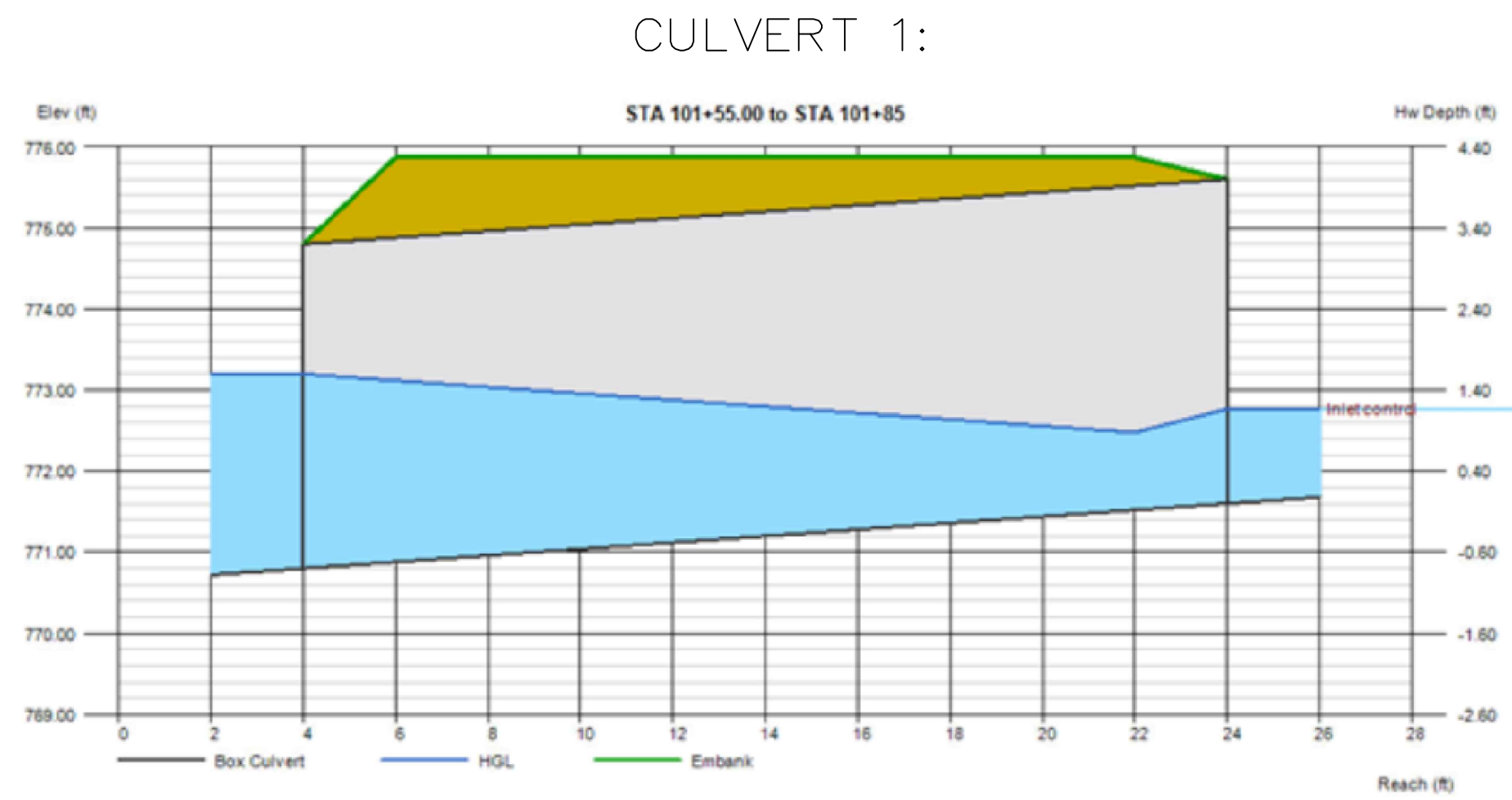
PAVEMENT ELEVATIONS				
POINT	ELEVATION	LENGTH	GRADE BACK	GRADE AHEAD
1	766.60'	15'		0.49%
2	766.67'	15'	-0.49%	-2.67%
3	766.27'	15'	2.67%	0.00%
4	766.27'	15'	0.00%	2.20%
1	766.60'		-2.20%	

MATERIAL CALCULATIONS	
MATERIAL	VOLUME (CY)
CUT	4.02
FILL	3.33
PAVEMENT	4.17



CULVERTS:

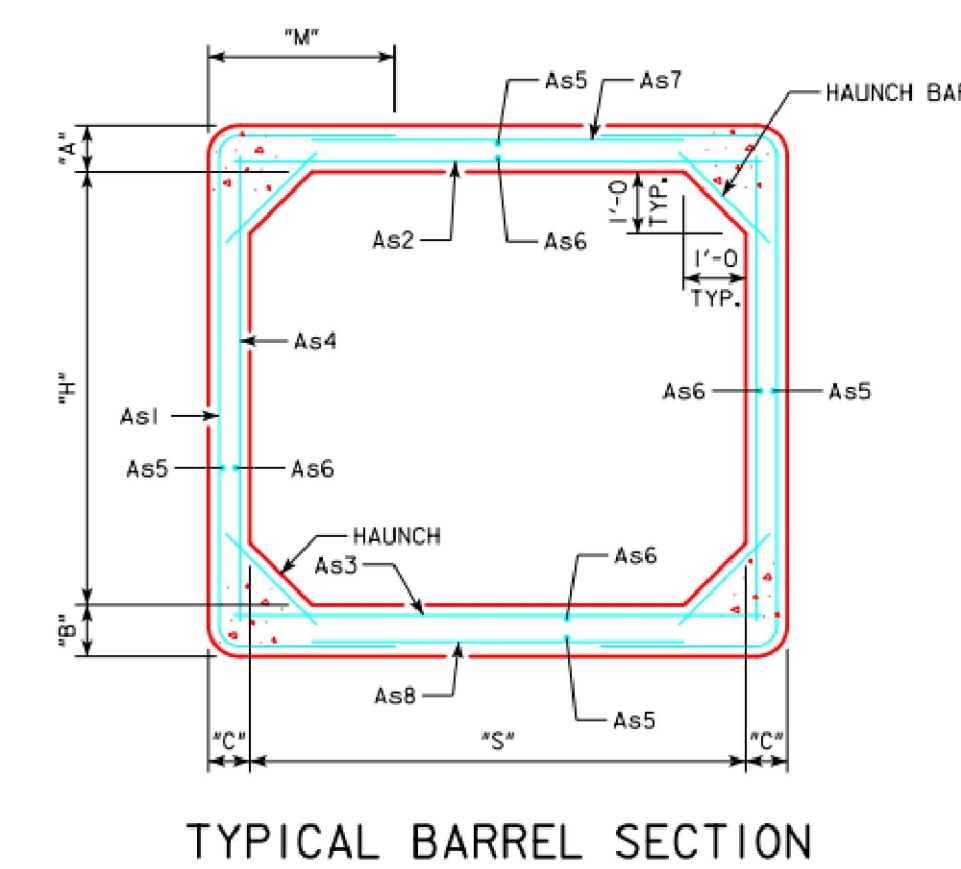
CULVERT DATA					
CULVERT	START STATION	END STATION	2-YR FLOOD FLOW (CFS)	100-YR FLOOD FLOW (CFS)	PROPOSED
1	101+55	101+85	121	835	3 - 10'x4' RCB CULVERTS
2	225+21	225+53	145	1080	4 - 8'x4' RCB CULVERTS



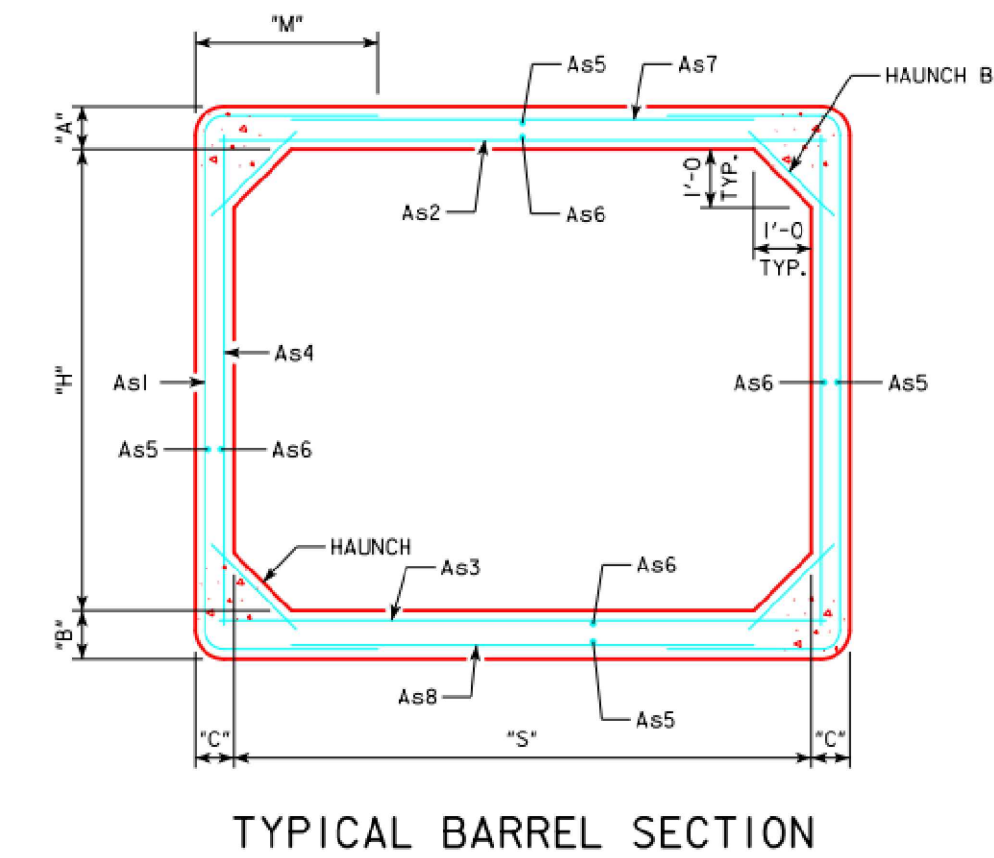
CULVERT TABLES AND SECTIONS:

- DIMENSIONS "A", "B" & "C" LISTED IN THE BAR LIST ARE IN INCHES.
- LONGITUDINAL REINFORCEMENT DENOTED AS As5 AND As6 MUST BE PLACED IN SLAB, FLOOR, AND WALLS AND MUST BE 0.06 IN²/FT MINIMUM.
- ALL REINFORCEMENT LENGTHS AND AREAS ARE MINIMUM REQUIREMENTS.
- IF REINFORCING BARS ARE SUBSTITUTED FOR WELDED WIRE REINFORCING, DIMENSION "M" AND/OR LENGTH OF THE As7/As8 REINFORCEMENT SHALL BE ADJUSTED TO ENSURE ADEQUATE LAP LENGTH IS PROVIDED.
- WEIGHT OF SECTIONS ASSUMES A DENSITY OF 150 PCF AND SQUARED CORNERS

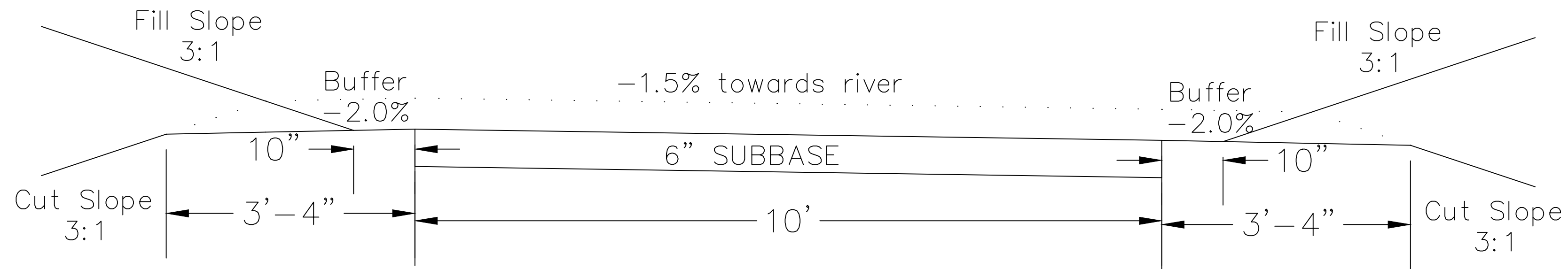
VARIABLE DIMENSIONS AND QUANTITIES FOR 8' SPAN BARREL SECTIONS																				
SIZE	DIMENSIONS							REINFORCEMENT REQUIREMENTS (IN ² /FT)										WEIGHT (LB/FT)		
	CLASS	f'c (ksi)	FILL	S	H	A	B	C	As1		As2		As3		As4		As7/As8			
8x4	1	5.0	2-9	8	4	9	10	8	0.47	10'-9	2'-10	0.42	8'-6	0.40	8'-6	0.20	4'-6	0.24	5'-4	3320
8x4	2	5.0	10-19	8	4	9	10	8	0.65	10'-9	2'-10	0.66	8'-6	0.67	8'-6	0.20	4'-6	0.24	5'-4	3320
8x4	3	5.0	20-25	8	4	9	10	8	0.85	10'-9	2'-10	0.83	8'-6	0.85	8'-6	0.20	4'-6	0.24	5'-4	3320
8x5	1	5.0	2-9	8	5	9	10	8	0.41	11'-9	2'-10	0.46	8'-6	0.46	8'-6	0.20	5'-6	0.24	5'-4	3520
8x5	2	5.0	10-19	8	5	9	10	8	0.57	11'-9	2'-10	0.72	8'-6	0.74	8'-6	0.20	5'-6	0.24	5'-4	3520
8x5	3	5.0	20-25	8	5	9	10	8	0.74	11'-9	2'-10	0.91	8'-6	0.94	8'-6	0.20	5'-6	0.24	5'-4	3520
8x6	1	5.0	2-9	8	6	9	10	8	0.37	12'-9	2'-10	0.50	8'-6	0.50	8'-6	0.20	6'-6	0.24	5'-4	3720
8x6	2	5.0	10-19	8	6	9	10	8	0.51	12'-9	2'-10	0.76	8'-6	0.79	8'-6	0.20	6'-6	0.24	5'-4	3720
8x6	3	5.0	20-25	8	6	9	10	8	0.66	12'-9	2'-10	0.96	8'-6	0.99	8'-6	0.20	6'-6	0.24	5'-4	3720
8x7	1	5.0	2-10	8	7	9	10	8	0.34	13'-9	2'-10	0.53	8'-6	0.54	8'-6	0.20	7'-6	0.24	5'-4	3920
8x7	2	5.0	11-19	8	7	9	10	8	0.47	13'-9	2'-10	0.79	8'-6	0.82	8'-6	0.20	7'-6	0.24	5'-4	3920
8x7	3	5.0	20-25	8	7	9	10	8	0.60	13'-9	2'-10	1.00	8'-6	1.02	8'-6	0.20	7'-6	0.24	5'-4	3920
8x8	1	5.0	2-10	8	8	9	10	8	0.31	14'-9	2'-10	0.56	8'-6	0.57	8'-6	0.20	8'-6	0.24	5'-4	4120
8x8	2	5.0	11-19	8	8	9	10	8	0.43	14'-9	2'-10	0.81	8'-6	0.84	8'-6	0.20	8'-6	0.24	5'-4	4120
8x8	3	5.0	20-25	8	8	9	10	8	0.56	14'-9	2'-10	1.01	8'-6	1.04	8'-6	0.20	8'-6	0.24	5'-4	4120
8x9	1	5.0	2-11	8	9	9	10	8	0.30	15'-9	2'-10	0.59	8'-6	0.60	8'-6	0.20	9'-6	0.24	5'-4	4320
8x9	2	5.0	12-19	8	9	9	10	8	0.42	16'-1	3'-0	0.81	8'-6	0.85	8'-6	0.22	9'-6	0.24	5'-0	4320
8x9	3	5.0	20-25	8	9	9	10	8	0.54	16'-5	3'-2	1.01	8'-6	1.05	8'-6	0.26	9'-6	0.24	5'-0	4320
8x10	1	5.0	2-11	8	10	9	10	8	0.31	17'-1	3'-0	0.61	8'-6	0.63	8'-6	0.25	10'-6	0.24	5'-0	4520
8x10	2	5.0	12-20	8	10	9	10	8	0.48	17'-1	3'-0	0.84	8'-6	0.88	8'-6	0.34	10'-6	0.24	5'-0	4520
8x10	3	5.0	21-25	8	10	9	10	9	0.51	17'-5	3'-2	0.94	8'-6	0.99	8'-6	0.34	10'-6	0.24	5'-0	4810



VARIABLE DIMENSIONS AND QUANTITIES FOR 10' SPAN BARREL SECTIONS																				
SIZE	DIMENSIONS							REINFORCEMENT REQUIREMENTS (IN ² /FT)										WEIGHT (LB/FT)		
	CLASS	f'c (ksi)	FILL	S	H	A	B	C	As1		As2		As3		As4		As7/As8			
10x4	1	5.0	2-11	10	4	9	10	8	0.72	10'-9	2'-10	0.62	10'-6	0.63	10'-6	0.20	4'-6	0.24	7'-4	3795
10x4	2	5.0	12-21	10	4	9	10	8	1.24	13'-9	4'-4	1.04	10'-6	1.05	10'-6	0.20	4'-6	0.24	7'-0	3795
10x4	3	5.0	22-25	10	4	10	11	9	1.23	12'-1	3'-5	1.03	10'-6	1.07	10'-6	0.22	4'-6	0.24	9'-0	4220
10x5	1	5.0	2-11	10	5	9	10	8	0.64	11'-9	2'-10	0.69	10'-6	0.71	10'-6	0.20	5'-6	0.24	7'-4	3995
10x5	2	5.0	12-22	10	5	9	10	8	1.15	12'-5	3'-2	1.20	10'-6	1.21	10'-6	0.20	5'-6	0.24	9'-0	3995
10x5	3	5.0	23-25	10	5	10	11	9	1.09	12'-7	3'-2	1.13	10'-6	1.19	10'-6	0.22	5'-6	0.24	9'-0	4445
10x6	1	5.0	2-11	10	6	9	10	8	0.58	12'-9	2'-10	0.74	10'-6	0.76	10'-6	0.20	6'-6	0.24	7'-4	4195
10x6	2	5.0	12-22	10	6	9	10	8	1.03	13'-1	3'-0	1.28	10'-6	1.30	10'-6	0.20	6'-6	0.24	9'-0	4195
10x6	3	5.0	23-25	10	6	10	11	9	0.98	13'-3	3'-0	1.21	10'-6	1.27	10'-6	0.22	6'-6	0.24	9'-0	4670
10x7	1	5.0	2-11	10	7	9	10	8	0.54	13'-9	2'-10	0.78	10'-6	0.81	10'-6	0.20	7'-6	0.24	7'-4	4395
10x7	2	5.0	12-22	10	7	9	10	8	0.94	13'-9	2'-10	1.34	10'-6	1.36	10'-6	0.20	7'-6	0.24	9'-0	4395
10x7	3	5.0	23-25	10	7	10	11	9	0.90	13'-11	2'-10	1.26	10'-6	1.34	10'-6	0.22	7'-6	0.24	9'-0	4895
10x8	1	5.0	2-10	10	8	9	10	8	0.50	14'-9	2'-10	0.76	10'-6	0.80	10'-6	0.20	8'-6	0.24	7'-4	4595
10x8	2	5.0	11-21	10	8	9	10	8	0.83	14'-9	2'-10	1.33	10'-6	1.36	10'-6	0.20	8'-6	0.24	9'-0	4595
10x8	3	5.0	22-25	10	8	10	11	8	0.83	14'-11	2'-10	1.41	10'-6	1.50	10'-6	0.20	8'-6	0.24	9'-0	4875
10x9	1	5.0	2-11	10	9	9	10	8	0.46	15'-9	2'-10	0.83	10'-6	0.88	10'-6	0.20	9'-6	0.24	7'-4	4795
10x9	2	5.0	12-21	10	9	9	10	8	0.78	17'-1	3'-6	1.35	10'-6	1.39	10'-6	0.20	9'-6	0.24	7'-0	4795
10x9	3	5.0	22-25	10	9	10	11	8	0.79	15'-11	2'-10	1.43	10'-6	1.52	10'-6	0.20	9'-6	0.24	9'-0	5075
10x10	1	5.0	2-11	10	10	9	10	8	0.46	17'-1	3'-0	0.85	10'-6	0.91	10'-6	0.20	10'-6	0.24	7'-0	4995
10x10	2	5.0	12-21	10	10	9	10	8	0.76	18'-1	3'-6	1.57	10'-6	1.41	10'-6	0.24	10'-6	0.24	7'-0	4995
10x10	3	5.0	22-25	10	10	10	11	9	0.75	18'-5	3'-7	1.35	10'-6	1.43	10'-6	0.22	10'-6	0.24	7'-0	5570
10x11	1	5.0	2-9	10	11	9	10	8	0.46	18'-1	3'-0	0.85	10'-6	0.85	10'-6	0.28	11'-6	0.24	7'-0	5195
10x11	2	5.0	10-16	10	11	9	10	8	0.63	19'-9	3'-10	1.12	10'-6	1.17	10'-6	0.34	11'-6	0.24	5'-10	5195
10x11	3	5.0	17-20	10	11	9	10	9	0.68	20'-1	4'-0	1.24	10'-6	1.29	10'-6	0.32	11'-6	0.24	5'-10	5510
10x12	1	5.0	2-12	10	12	9	10	8	0.72	19'-7	3'-8	1.19	10'-6	1.28	10'-6	0.27	11'-6	0.24	7'-0	6435
10x12	2	5.0	13-19	10	12	9	10	10	0.61	21'-7	4'-3	1.12	10'-6	1.18	10'-6	0.39	12'-6	0.24	5'-4	6075
10x12	3	5.0	20-25	10	12	10	11	12	0.69	22'-1	4'-5	1.12	10'-6	1.22	10'-6	0.36	12'-6	0.24	5'-8	7050

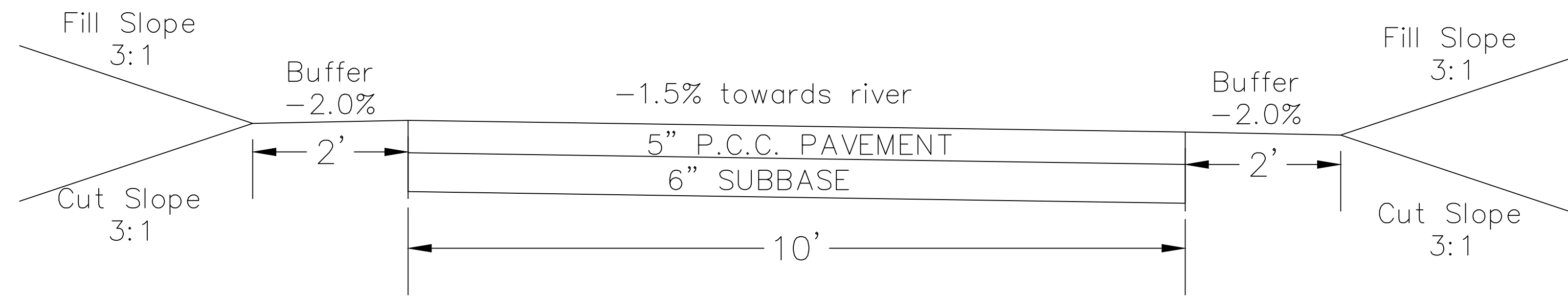


VARIABLE DIMENSIONS AND QUANTITIES FOR 12' SPAN BARREL SECTIONS																				
SIZE	DIMENSIONS							REINFORCEMENT REQUIREMENTS (IN ² /FT)										WEIGHT (LB/FT)		
	CLASS	f'c (ksi)	FILL	S	H	A	B	C	As1		As2		As3		As4		As7/As8			
12x4	1	5.0	2-9	12	4	9	10	8	0.98	12'-11	3'-11	0.74	12'-6	0.74	12'-6	0.20	4'-6	0.24	9'-0	4270
12x4	2	5.0	10-15	12	4	9	10	9	1.27	15'-1	5'-0	0.98	12'-6	0.96	12'-6	0.22	4'-6	0.24	7'-10	4410
12x4	3	5.0	16-19	12	4	11	11	9	1.39	14'-8	4'-8	1.11	12'-6	1.12	12'-6	0.22	4'-6	0.24	9'-0	4915
12x5	1	5.0	2-10	12	5	9	10	8	0.94	13'-9	3'-10	0.88	12'-6	0.89	12'-6	0.20	5'-6	0.24	9'-0	4470
12x5	2	5.0	11-15	12	5	9	10	9	1.16	14'-7	4'-3	1.07	12'-6	1.07	12'-6	0.22	5'-6	0.24	9'-0	4635
12x5	3	5.0	16-21	12	5	11	11	9	1.35	13'-6	3'-7	1.33	12'-6	1.35	12'-6	0.22	5'-6	0.24	11'-0	5140
12x6	1	5.0	2-10	12	6	9	10	8	0.84	14'-5	3'-8	0.95	12'-6	0.97	12'-6	0.20	6'-6	0.24	9'-0	4670
12x6	2	5.0	11-15	12	6	9	10	8	1.15	15'-5	4'-2	1.27	12'-6	1.28	12'-6	0.20	6'-6	0.24	9'-0	4670
12x6	3	5.0	16-19	12	6	10	11	9	1.19	15'-11	4'-4	1.30	12'-6	1.36	12'-6	0.22	6'-6	0.24	9'-0	5195
12x7	1	5.0	2-10	12	7	9	10	8	0.77	15'-1	3'-6	1.00	12'-6	1.03	12'-6	0.20	7'-6	0.24	9'-0	4870
12x7	2	5.0	11-15	12	7	9	10	8	1.05	16'-1	4'-0	1.34	12'-6	1.36	12'-6	0.20	7'-6	0.24	9'-0	4870
12x7	3	5.0	16-20	12	7	10	11	8	1.18	14'-9	3'-3	1.63	12'-6	1.67	12'-6	0.20	7'-6	0.24	11'-0	5200



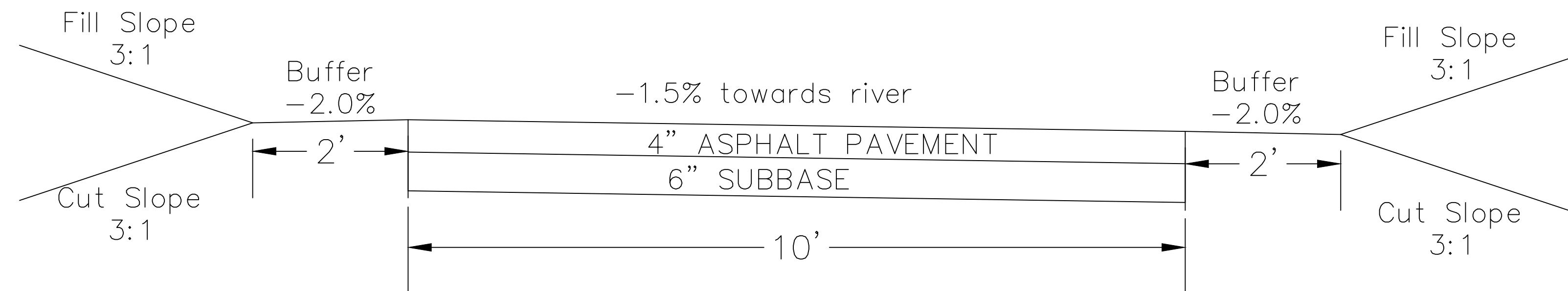
UNPAVED:

1. THE UNPAVED CROSS SECTION IS DESIGNED TO ACCOMMODATE FUTURE PAVING.
2. THE CUT AND FILL LINES FOLLOW THE SAME PATH AS THE PAVED CROSS SECTION, REQUIRING MINIMAL CUT AND FILL IF PAVEMENT IS DESIRED.
3. THE BUFFER OF THE UNPAVED CROSS SECTION IS 10" RATHER THAN THE 2' FOR THE PAVED SECTION.
4. THE 6" SUBBASE CONSISTS OF CRUSHED LIMESTONE W/ FINES, WHICH MAY ACT AS THE UNPAVED SURFACE.



PAVED:

1. EITHER P.C.C. OR ASPHALT PAVEMENT MAY BE CHOSEN.
2. BOTH ALTERNATIVES HAVE IDENTICAL BUFFERS AND CUT/FILL LOCATIONS.
3. IF THE TRAIL IS USED WHILE UNPAVED, THE SUBBASE MUST BE COMPACTED AGAIN IN ACCORDANCE TO N-01



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Volga Trail

SHEET NAME

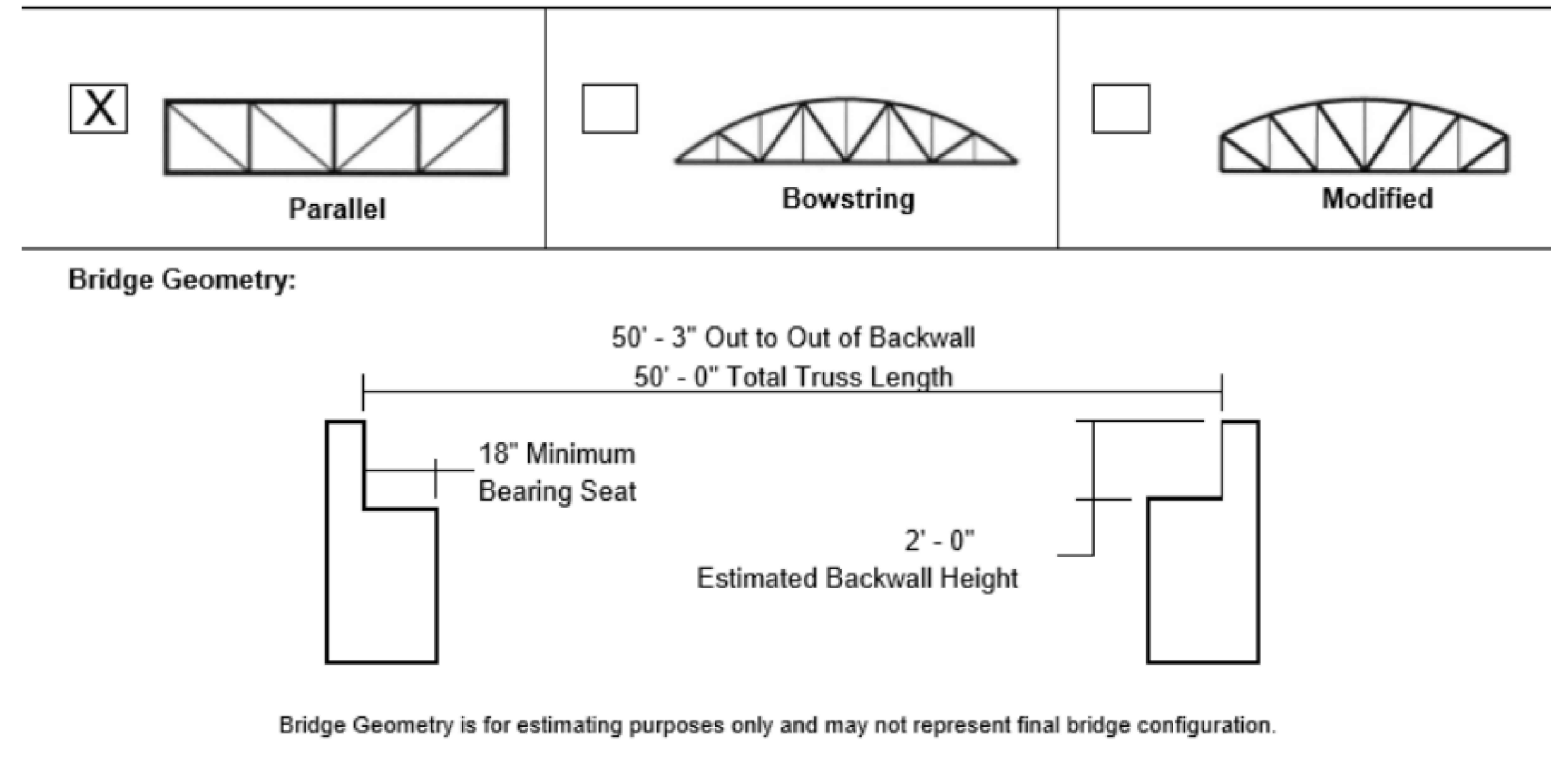
CROSS SECTION

SHEET NO.

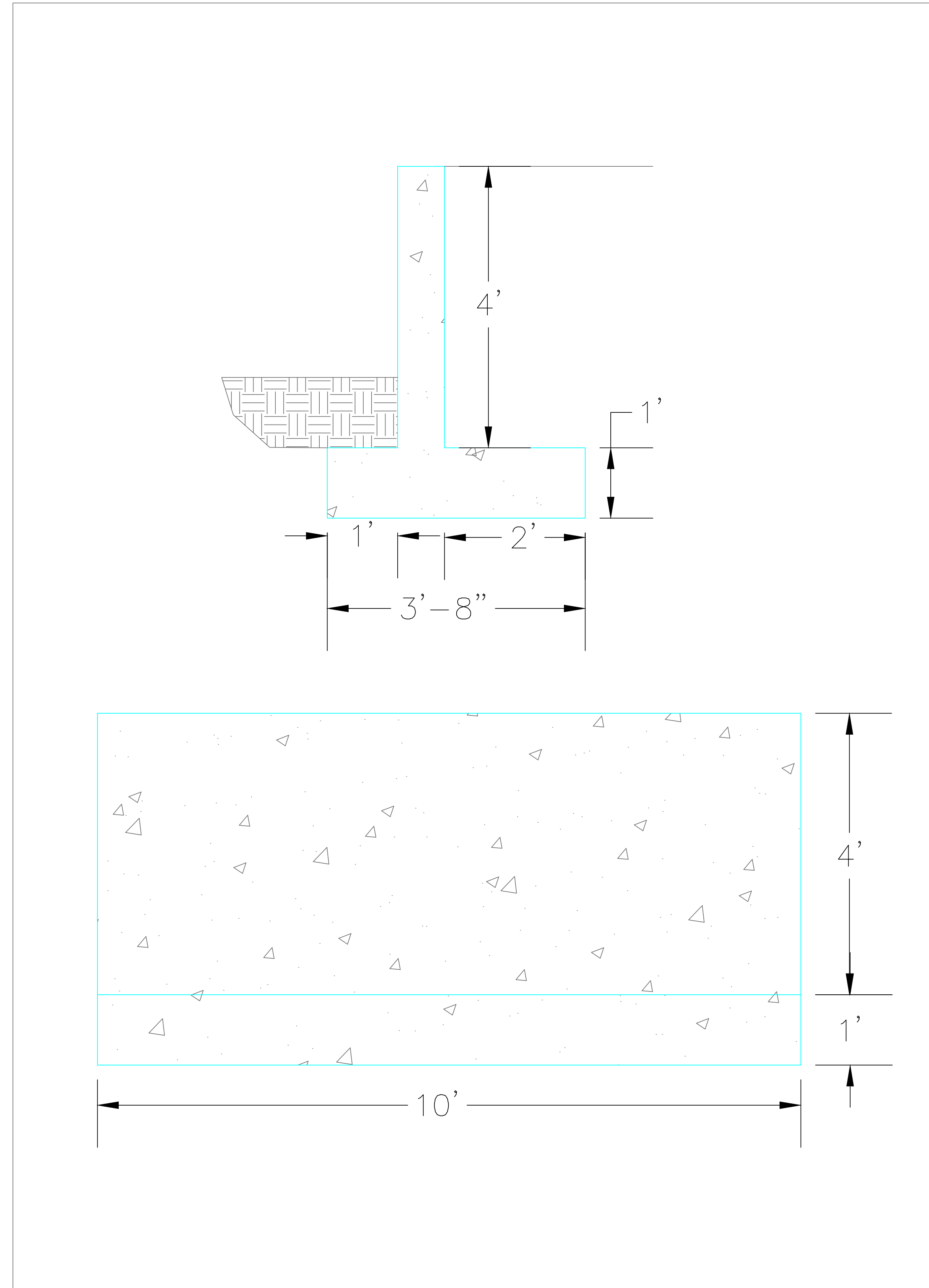
D-05

BRIDGES:

BRIDGE DATA					
BRIDGE	START STATION	END STATION	2-YR FLOOD FLOW (CFS)	100-YR FLOOD FLOW (CFS)	PROPOSED
1	30+95	31+45	541	4040	50' PRE-FAB BRIDGE
2	153+70	154+20	893	6620	50' PRE-FAB BRIDGE



Bridge Span: 50' - 0"	Live Load: 90#	Field Splices: 0
Bridge Width: 10' - 0"	Vehicle Load: AASHTO - H5	Number of Pieces: 1
Truss Type: Parallel	Finish: Weathering	Lifting Weight: 17,200 lbs
Diagonal: Pratt	Railing Config: Horizontal - 54" w/ Ipe Rubrail	Opening: 4" Max
Decking Type: Treated Timber		



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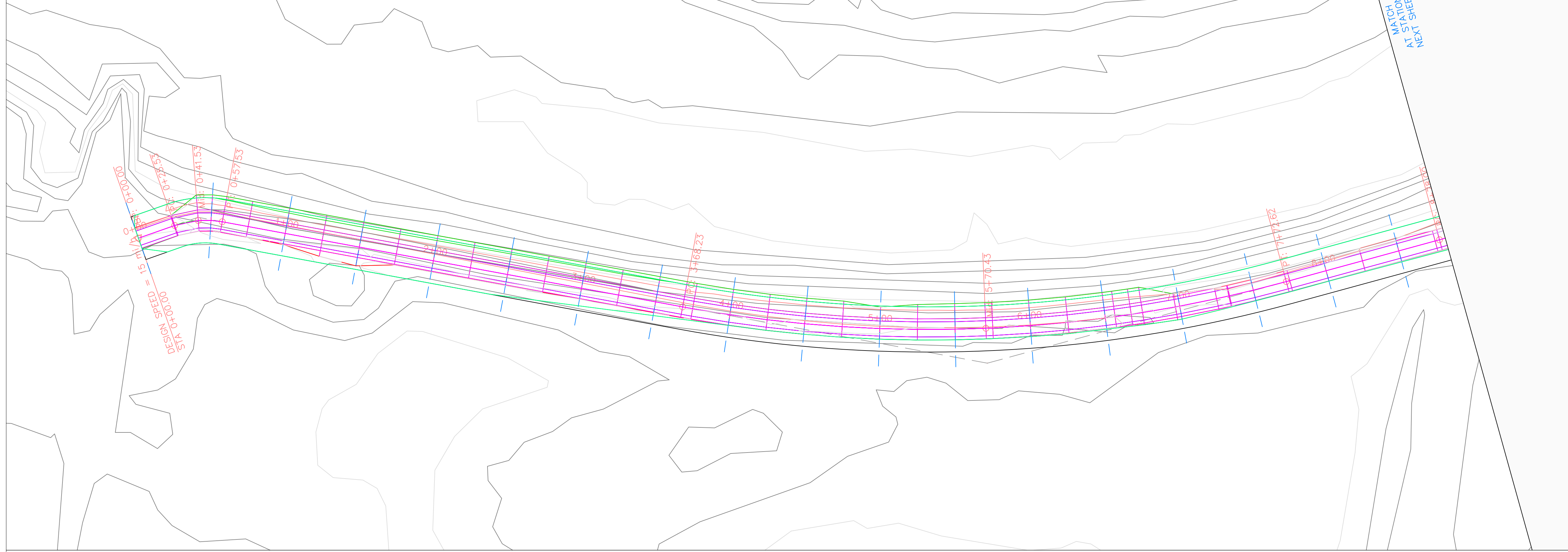
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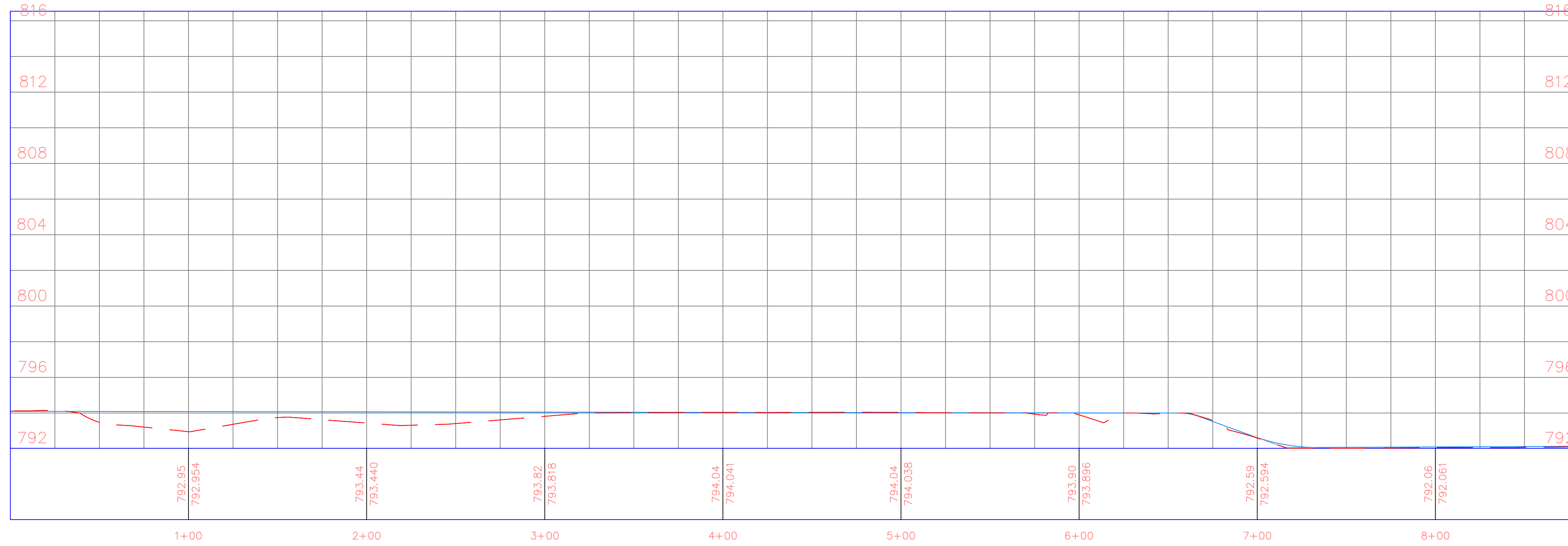
Bridges

SHEET NO.

D-06

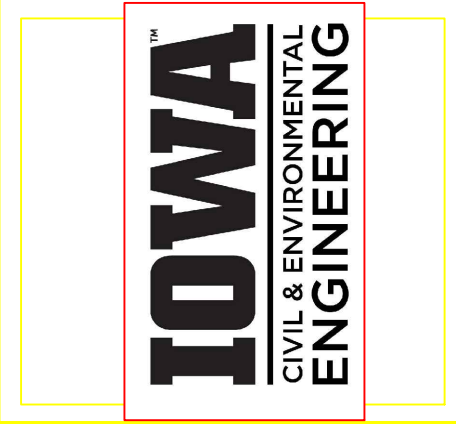


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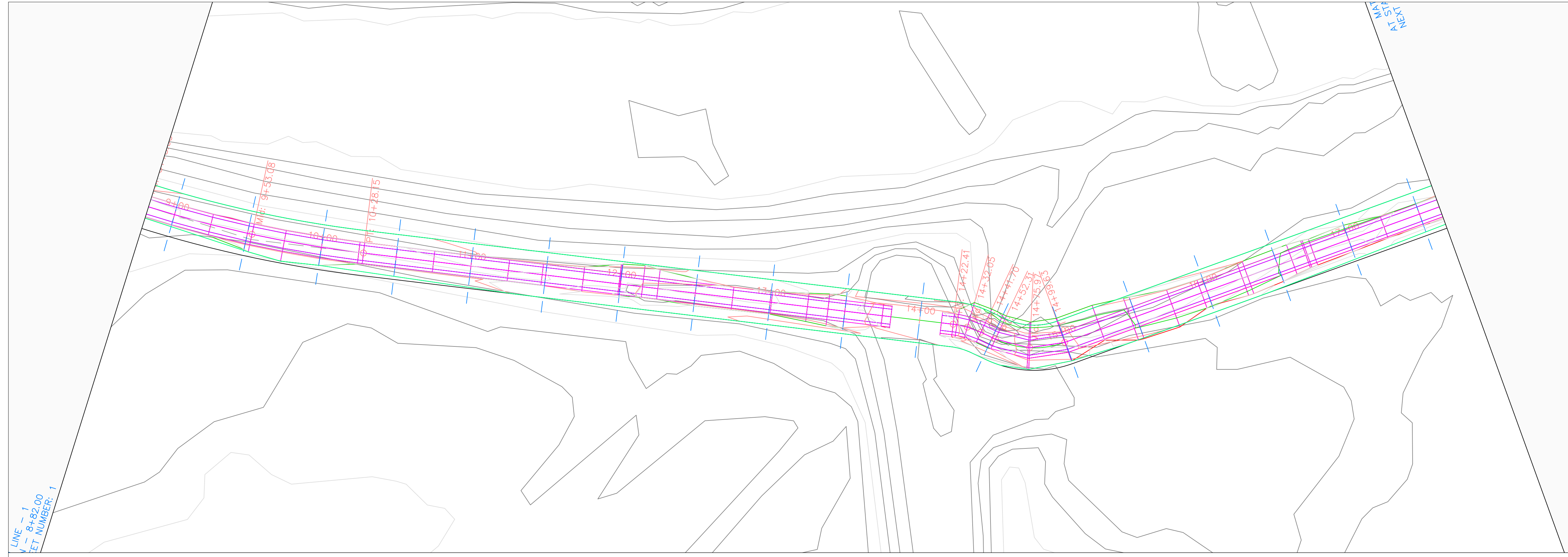
Volga Trail

SHEET NAME
 SHEET NAME 1
 SHEET NAME 2

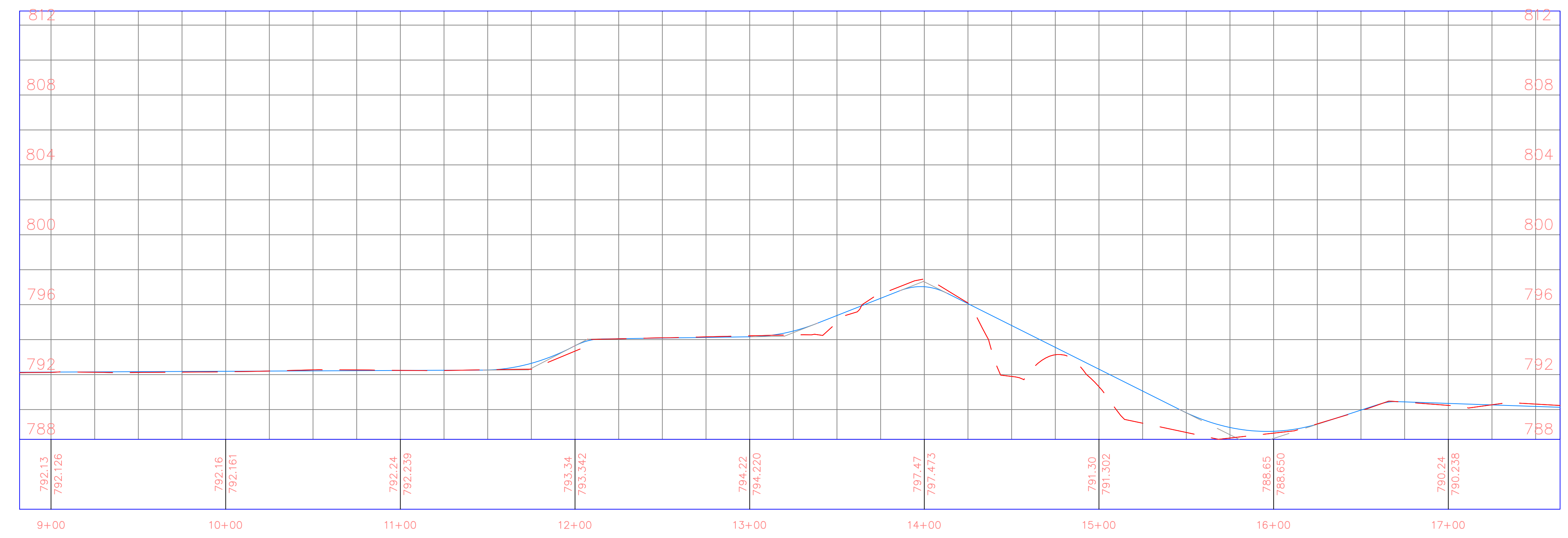
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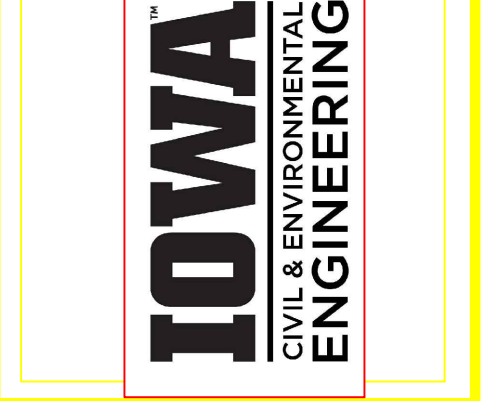


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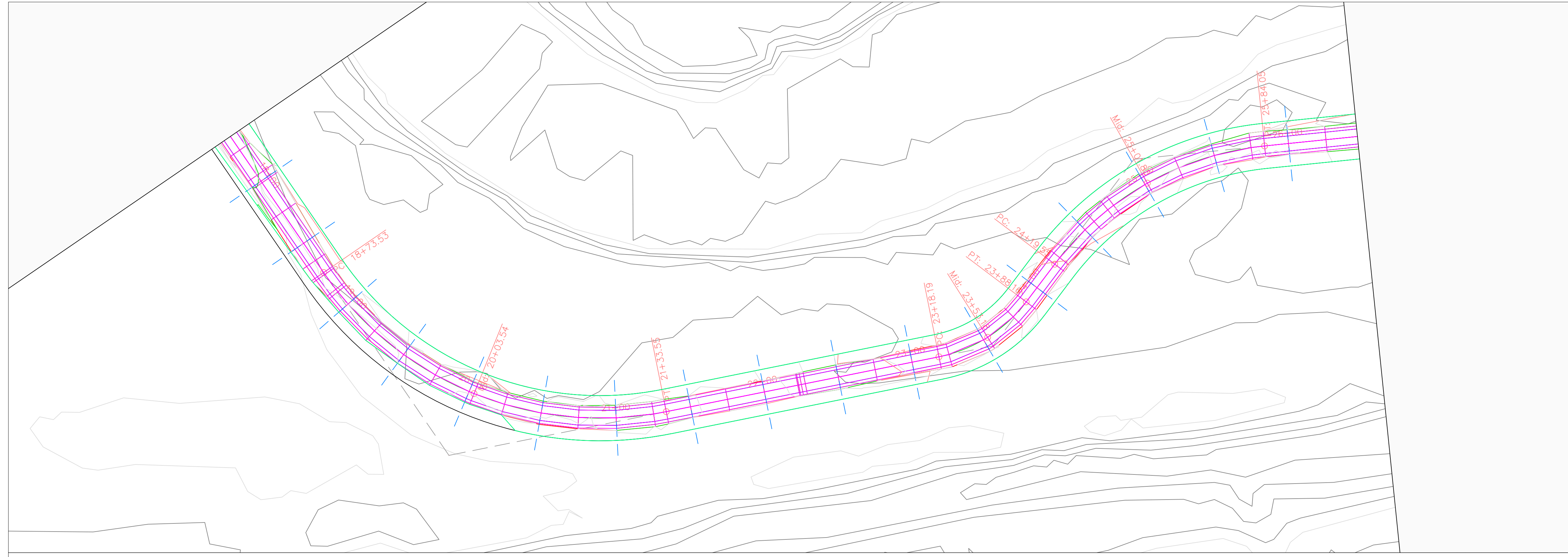
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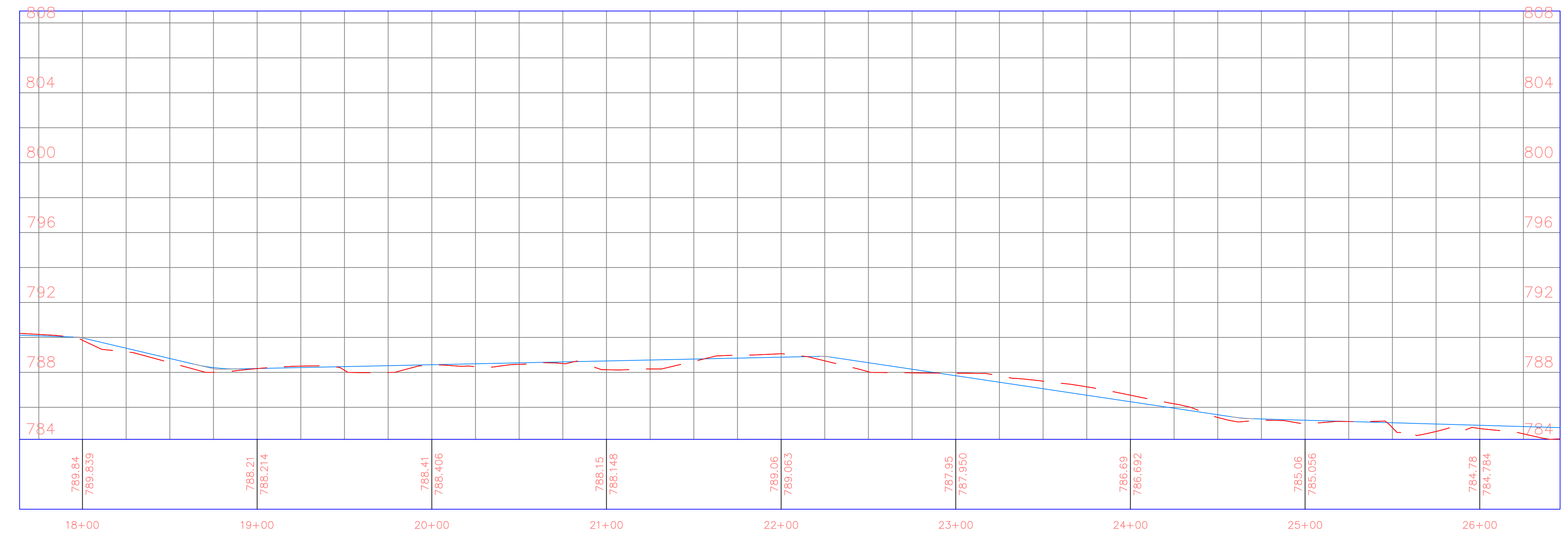
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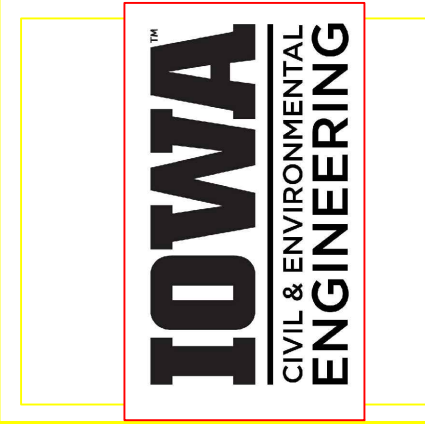


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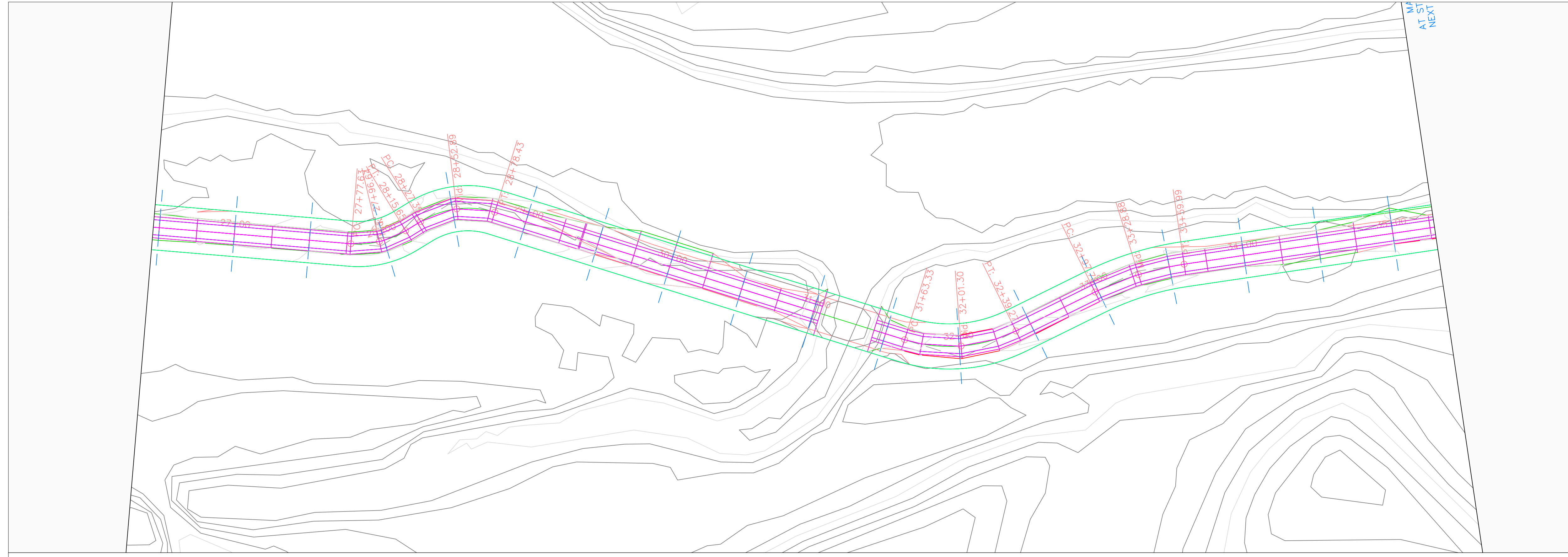


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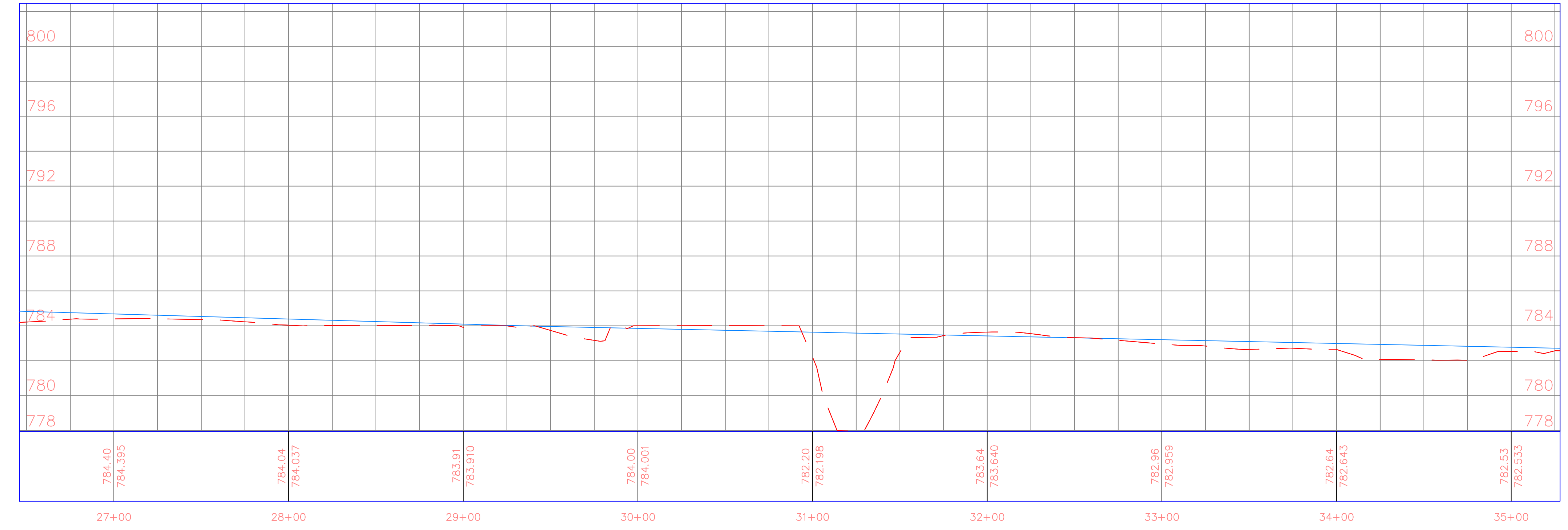
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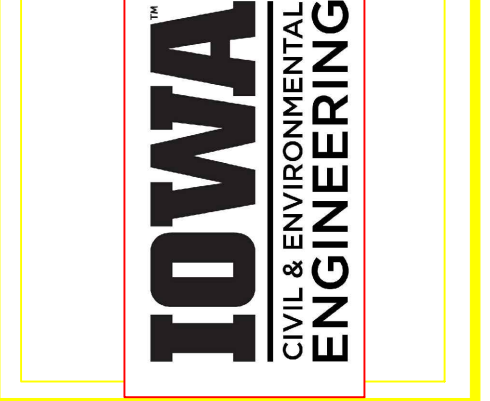


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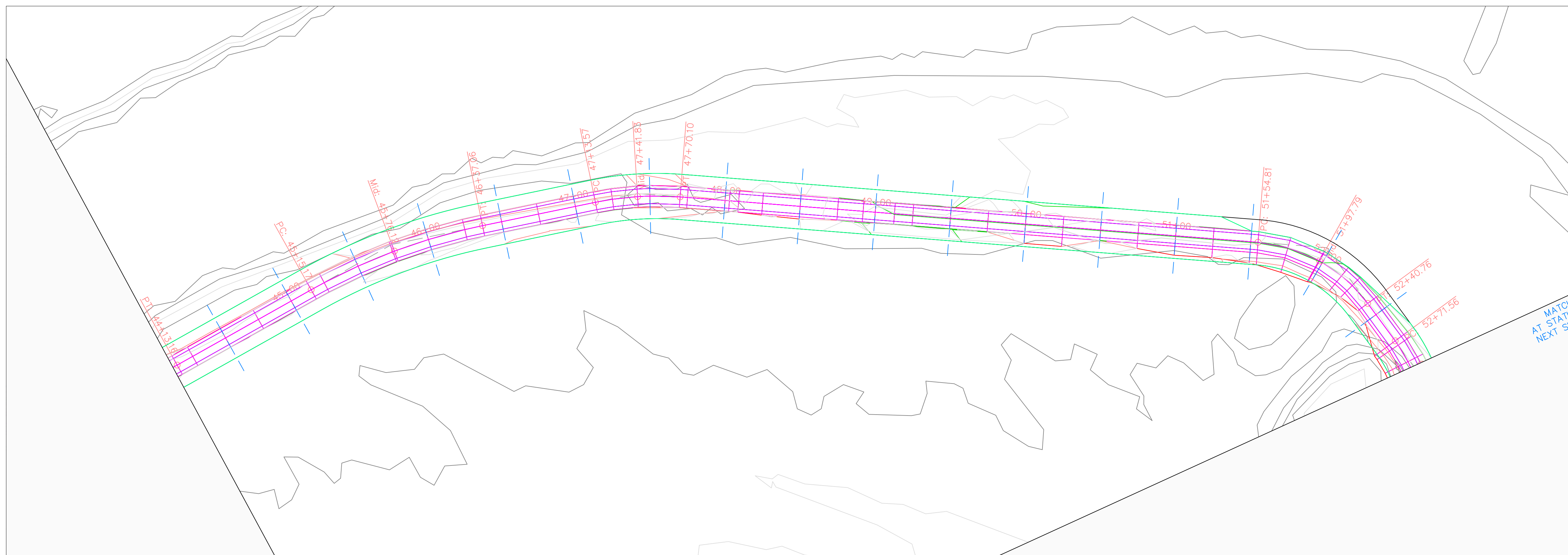


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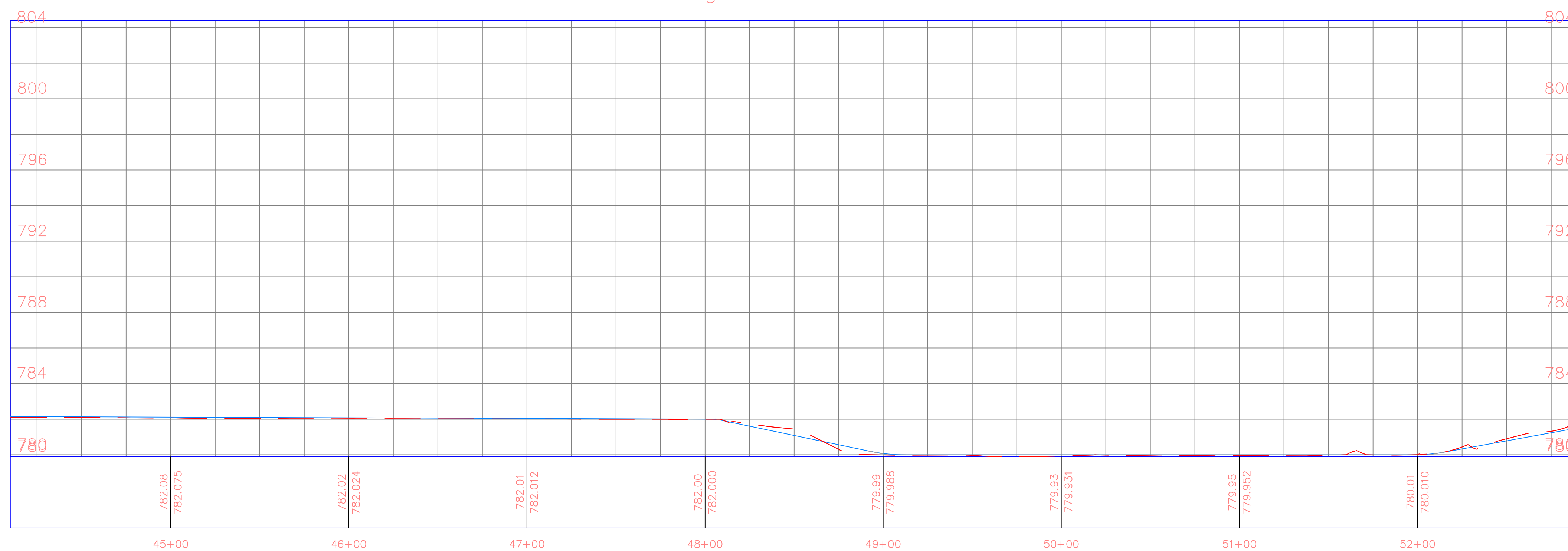
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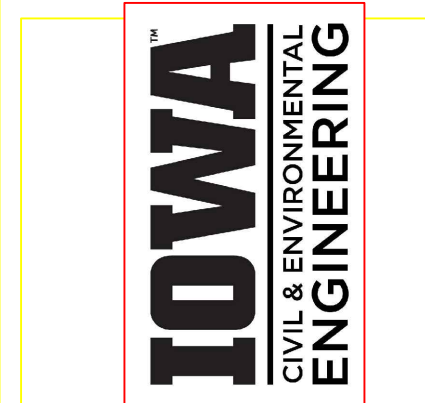


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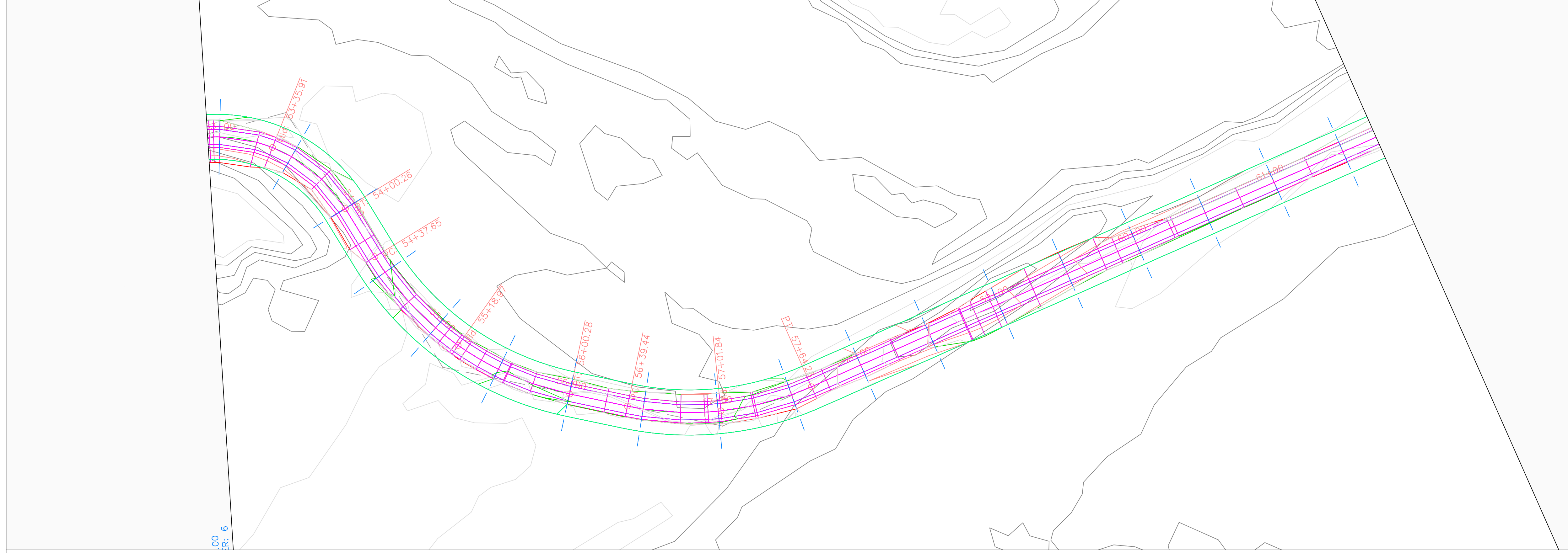


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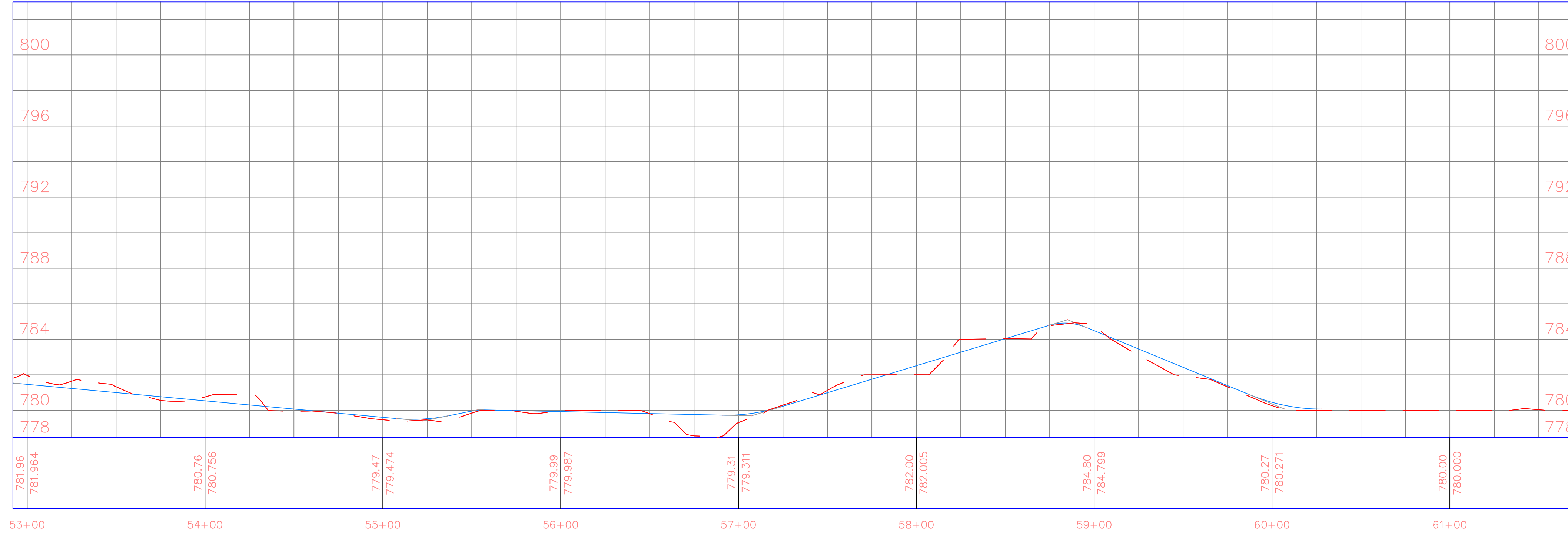
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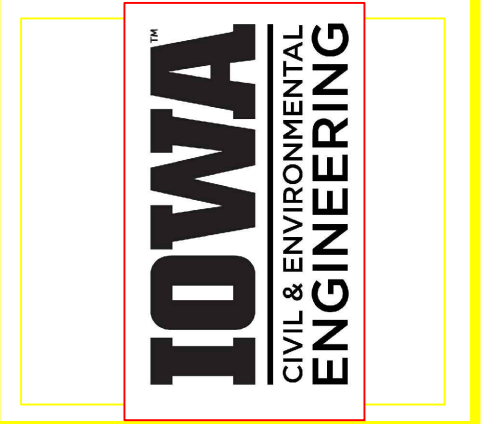


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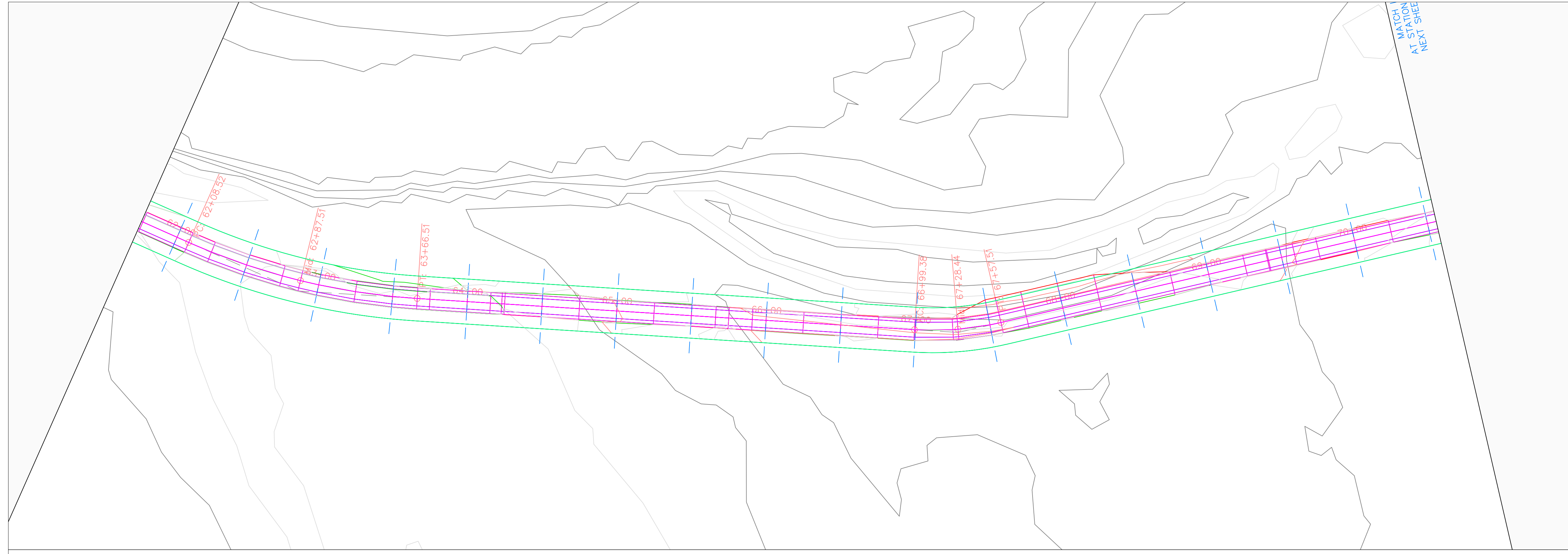
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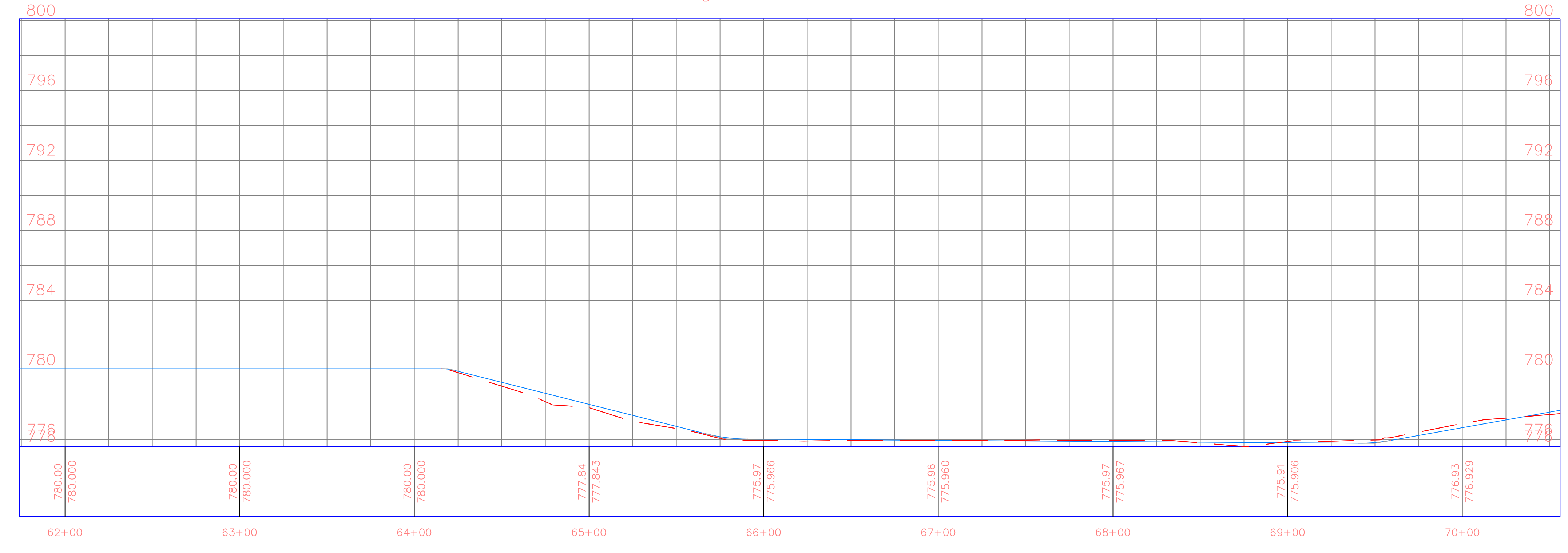
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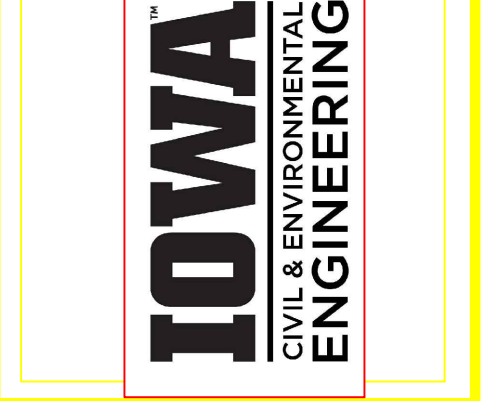


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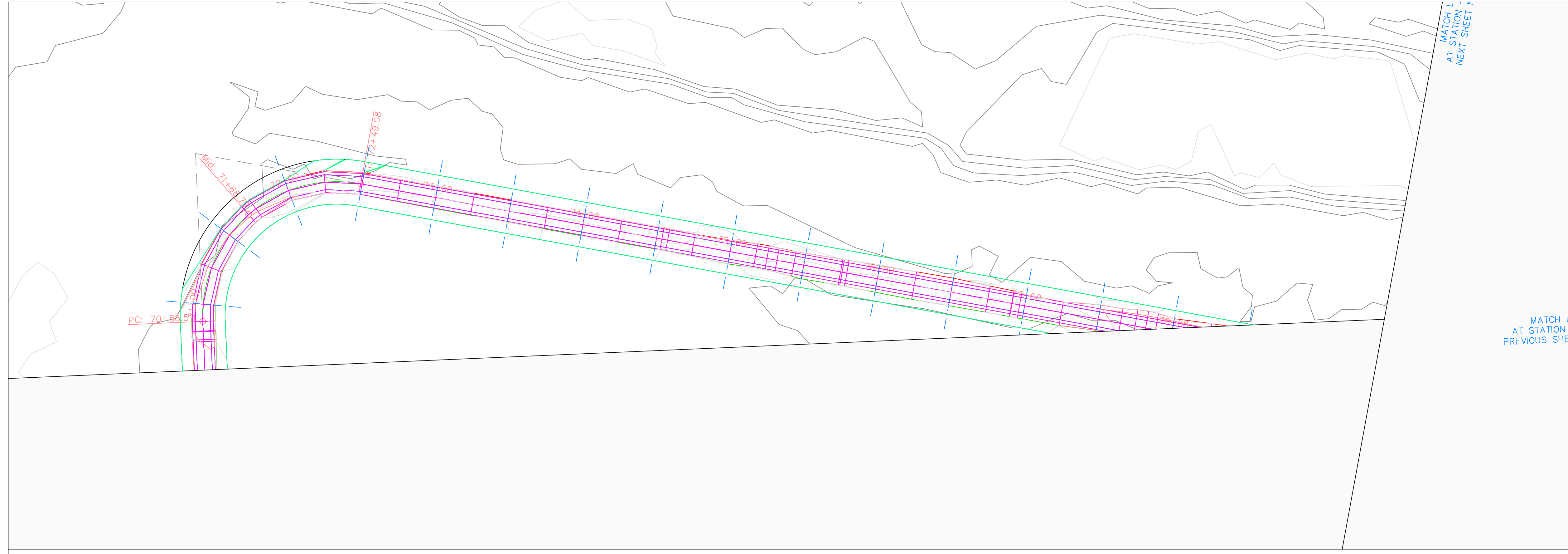
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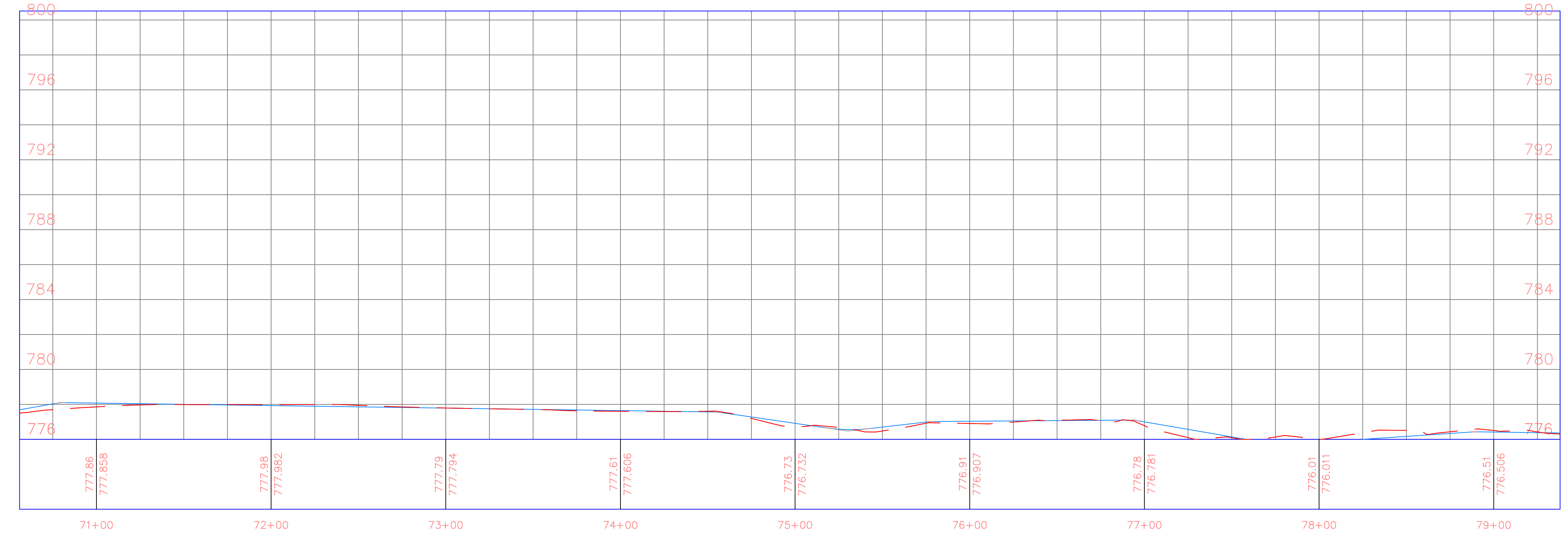
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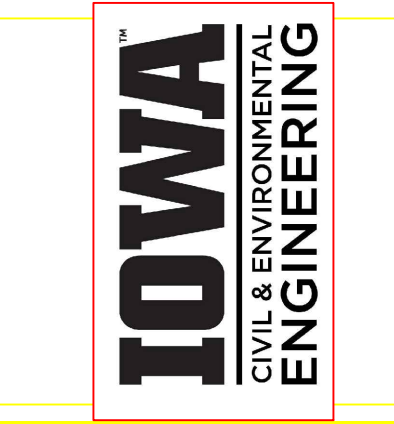


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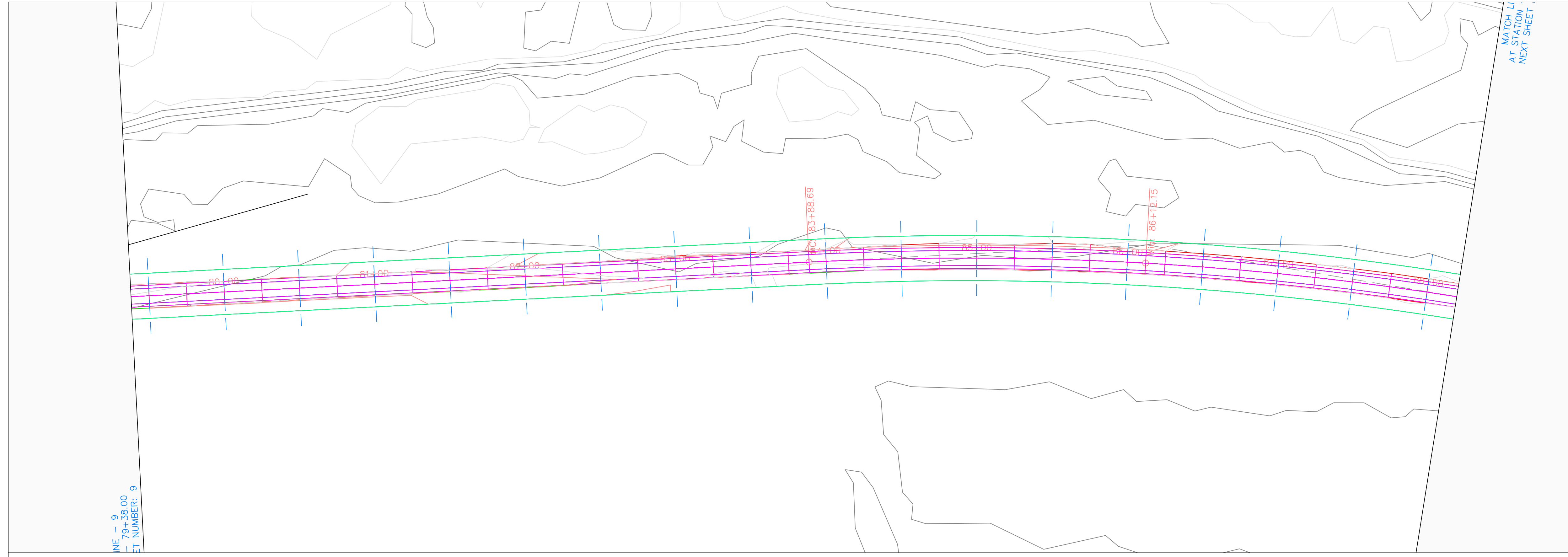


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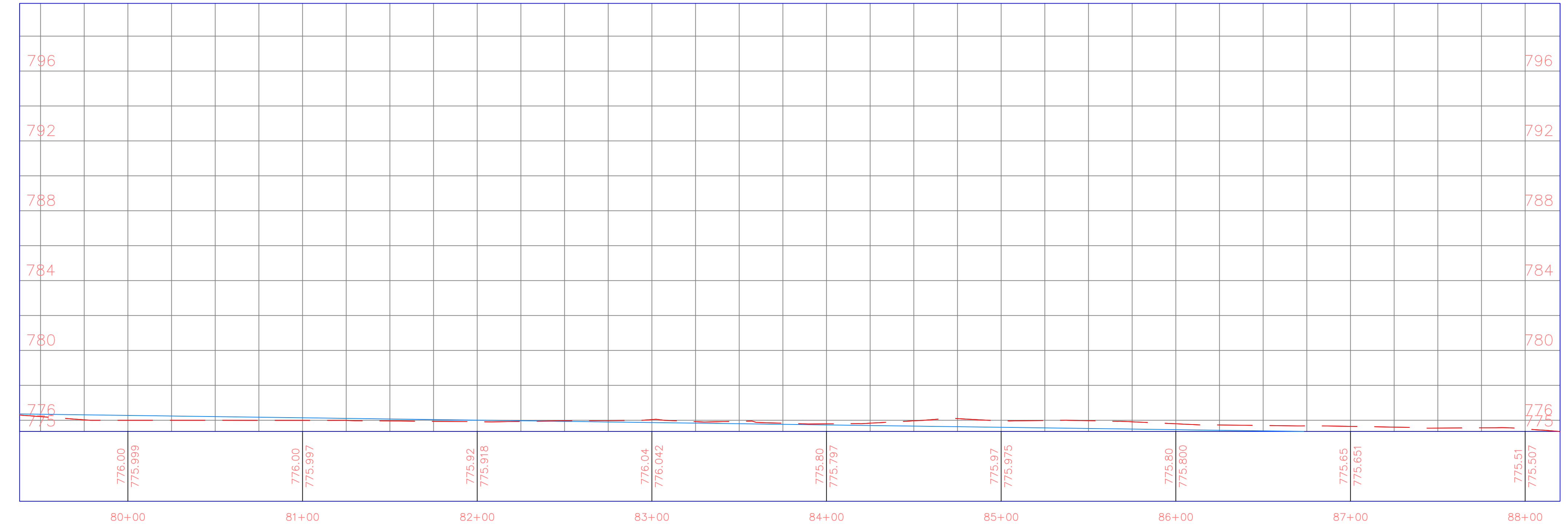
SHEET NO.
XX



LINE - 9
 - 79+35.00
 SET NUMBER: 9

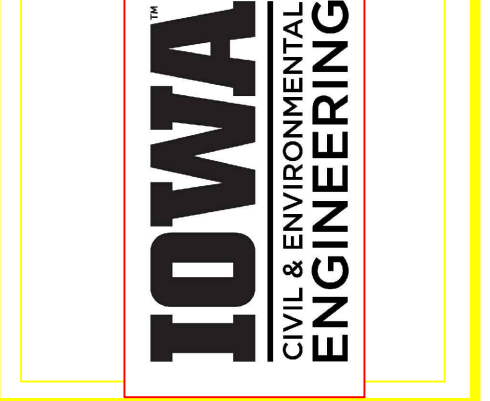
MATCH LINE
 AT STATION
 NEXT SHEET

Volga Trail PROFILE



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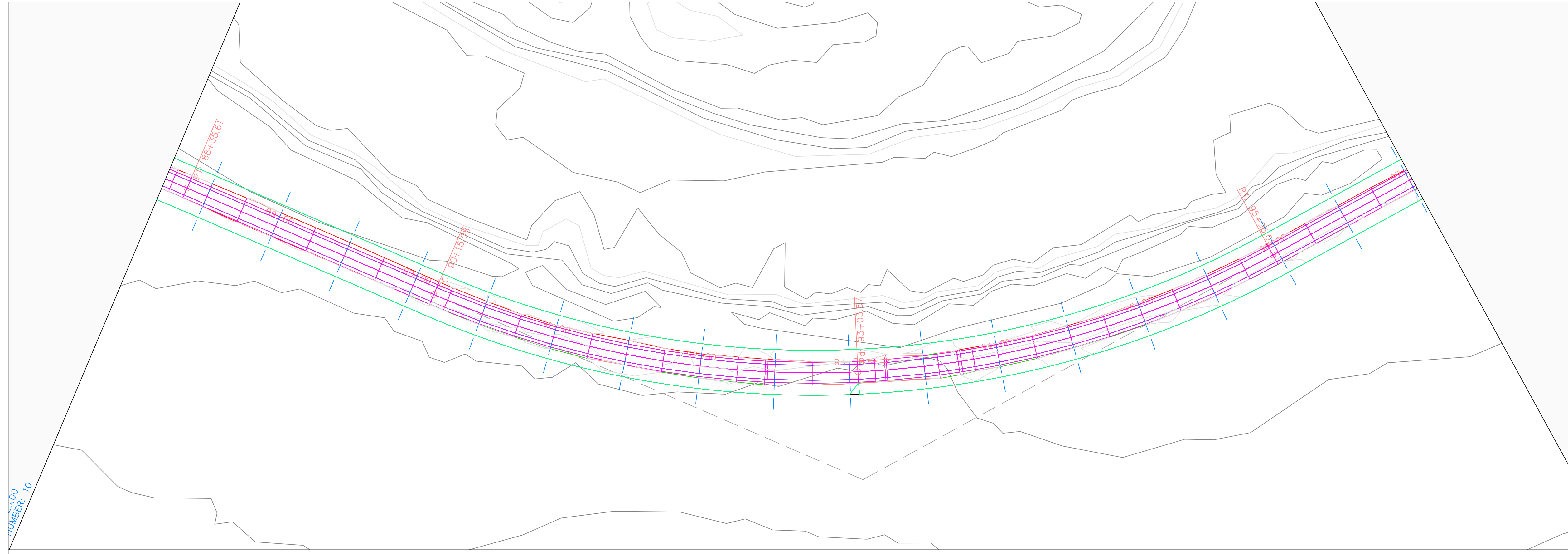


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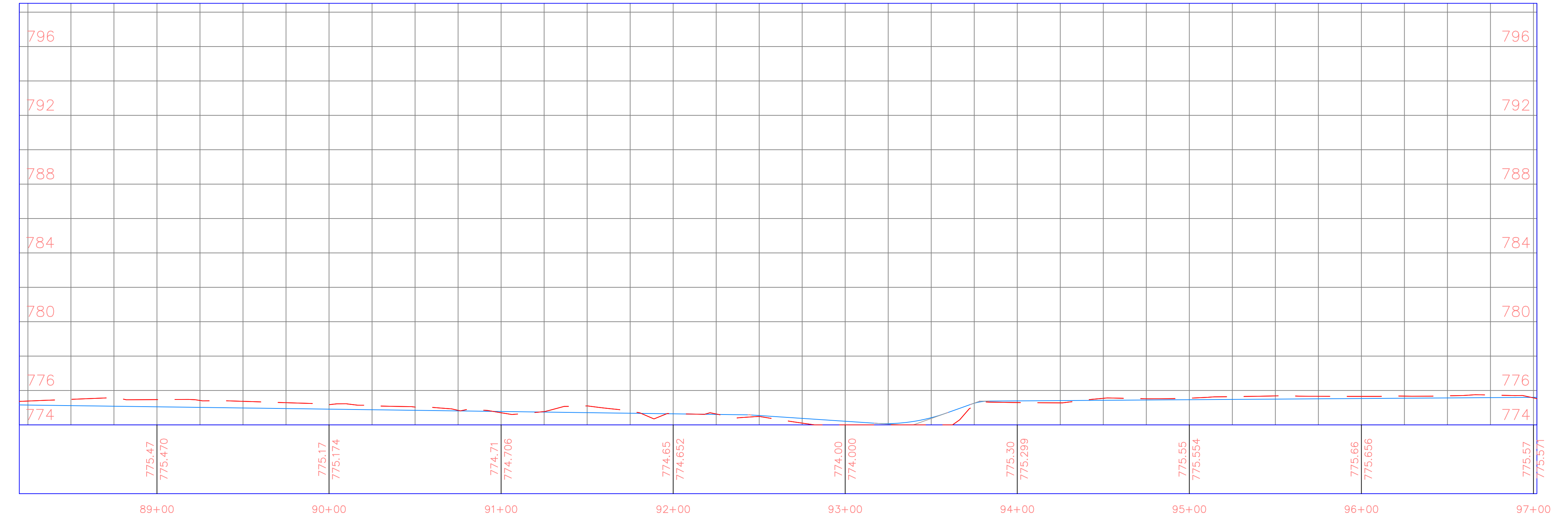
Volga Trail

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XX

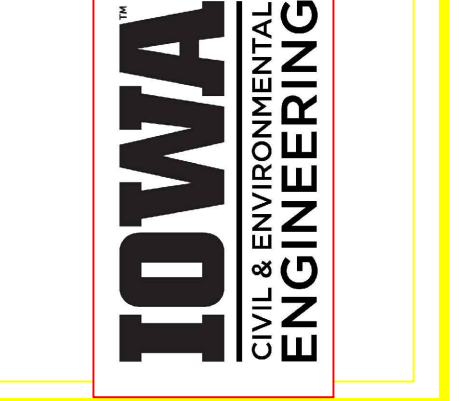


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 PHONE: 319.335.5647
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 EMAIL: civil-hawks@iowa.edu

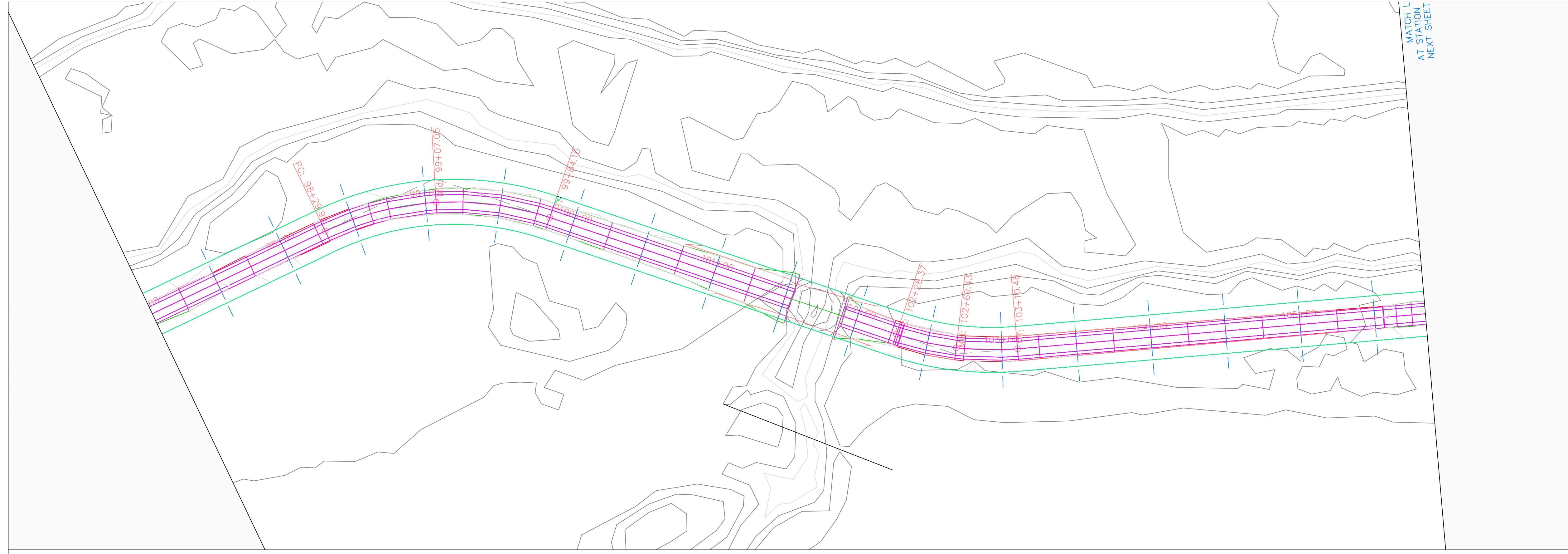


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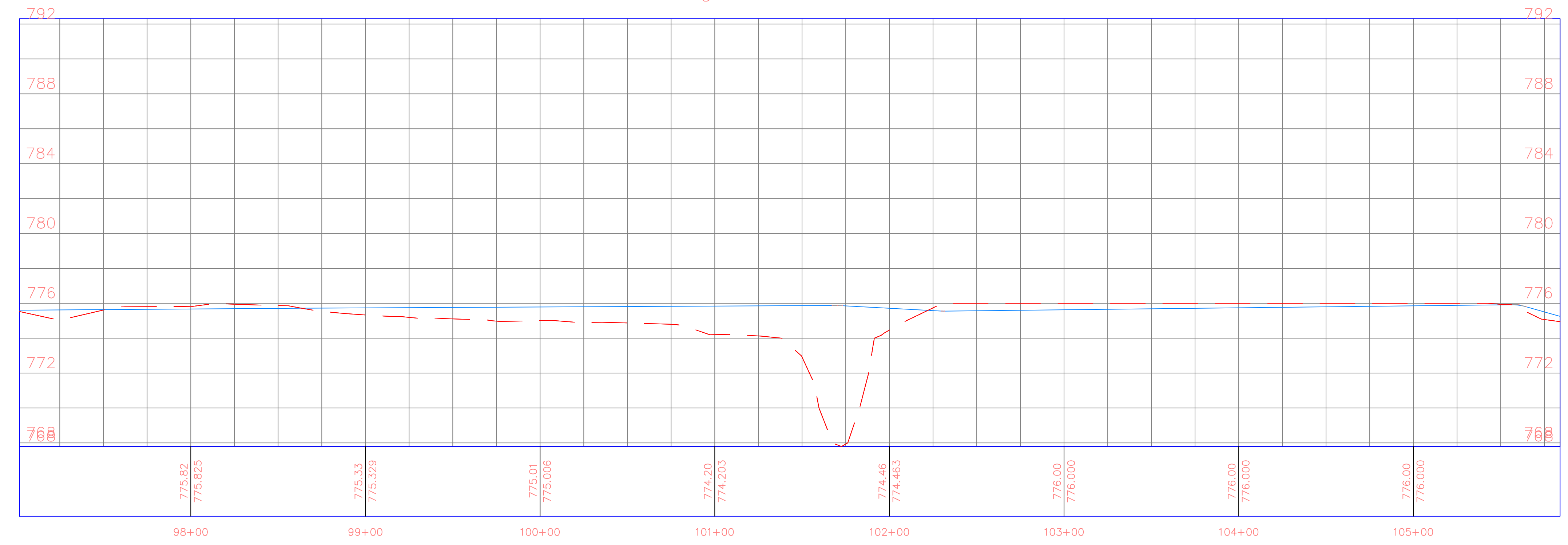
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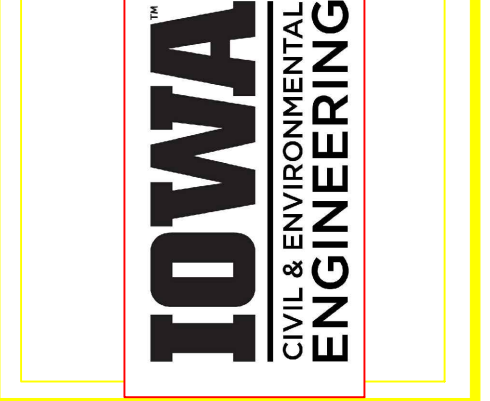


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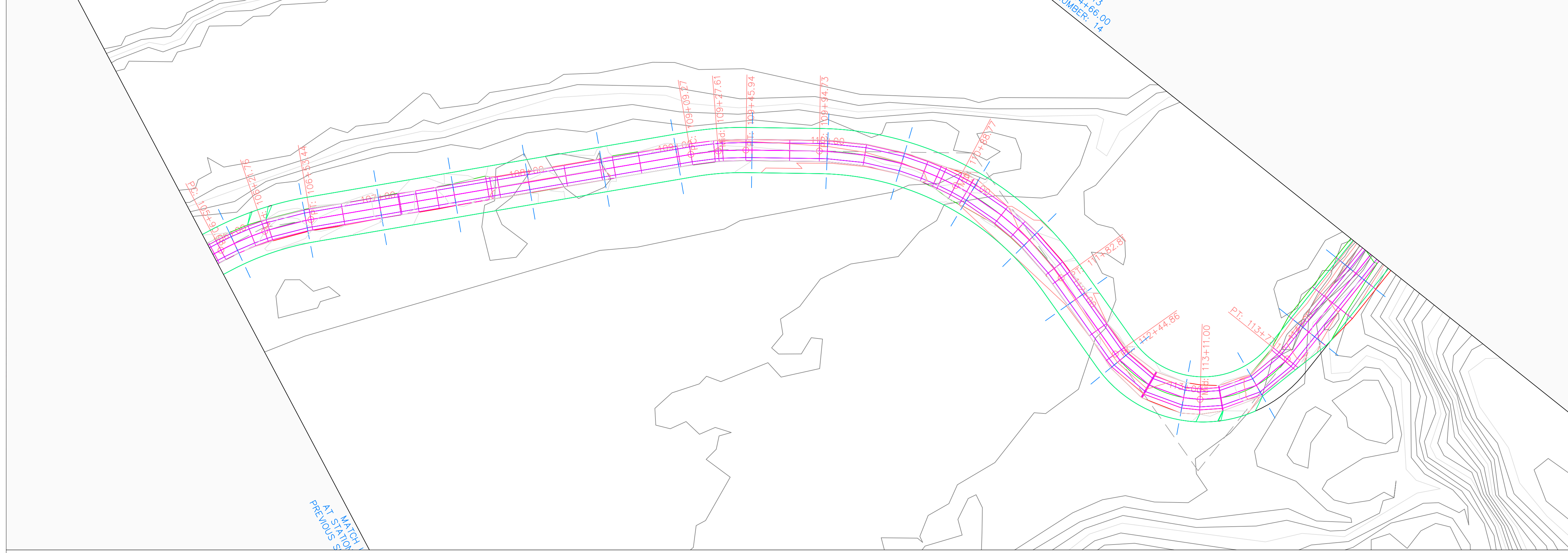


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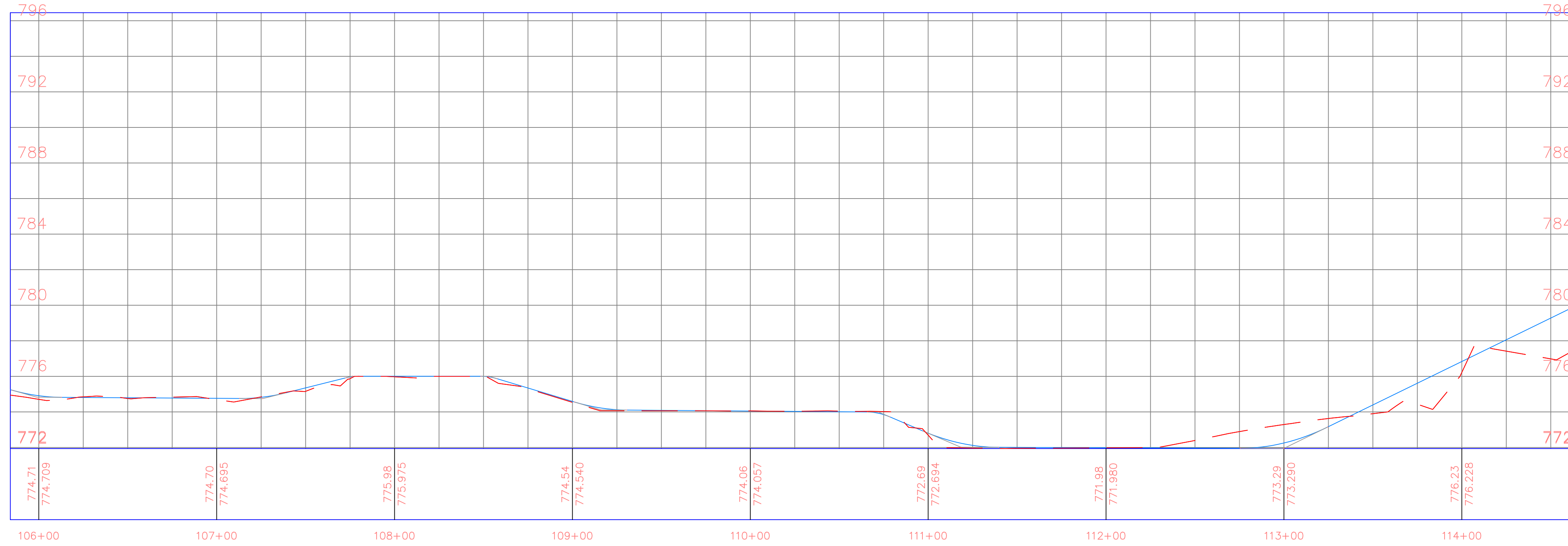
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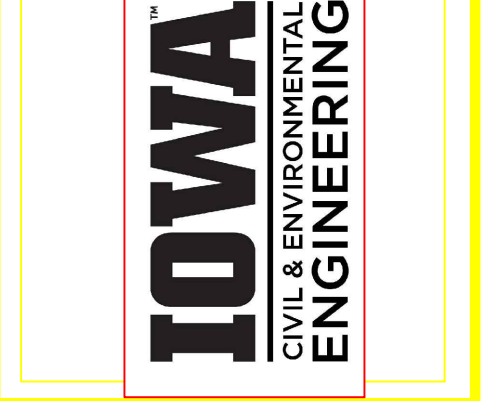


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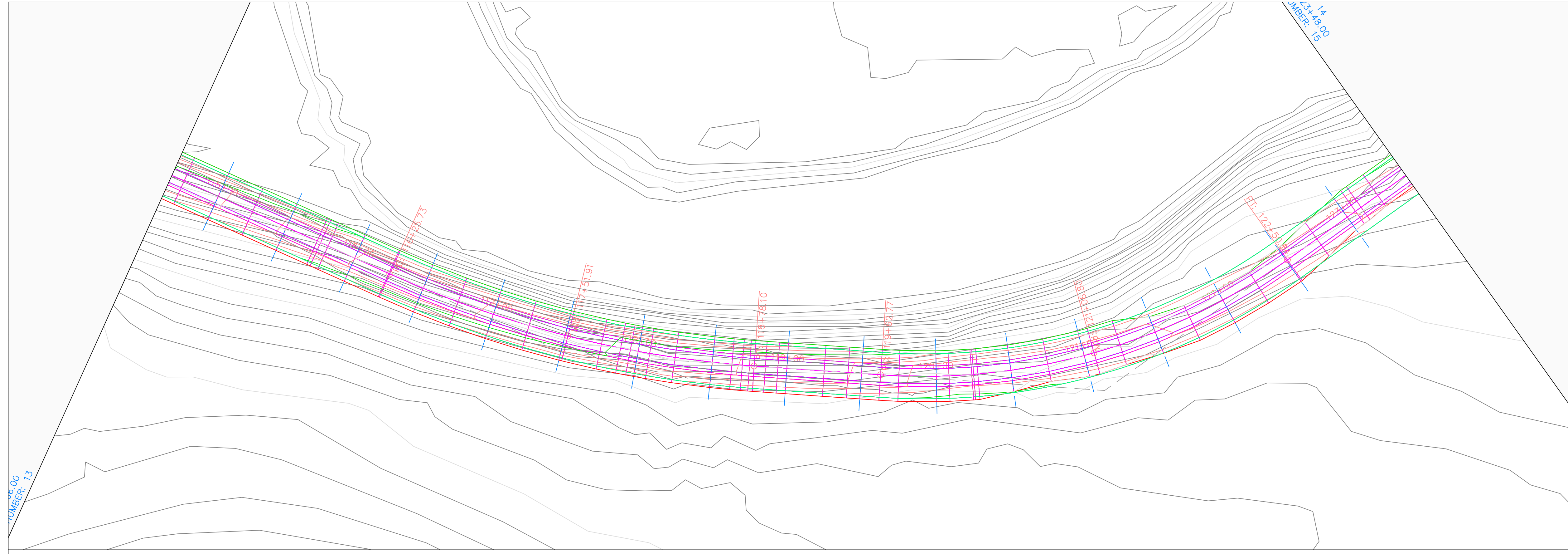


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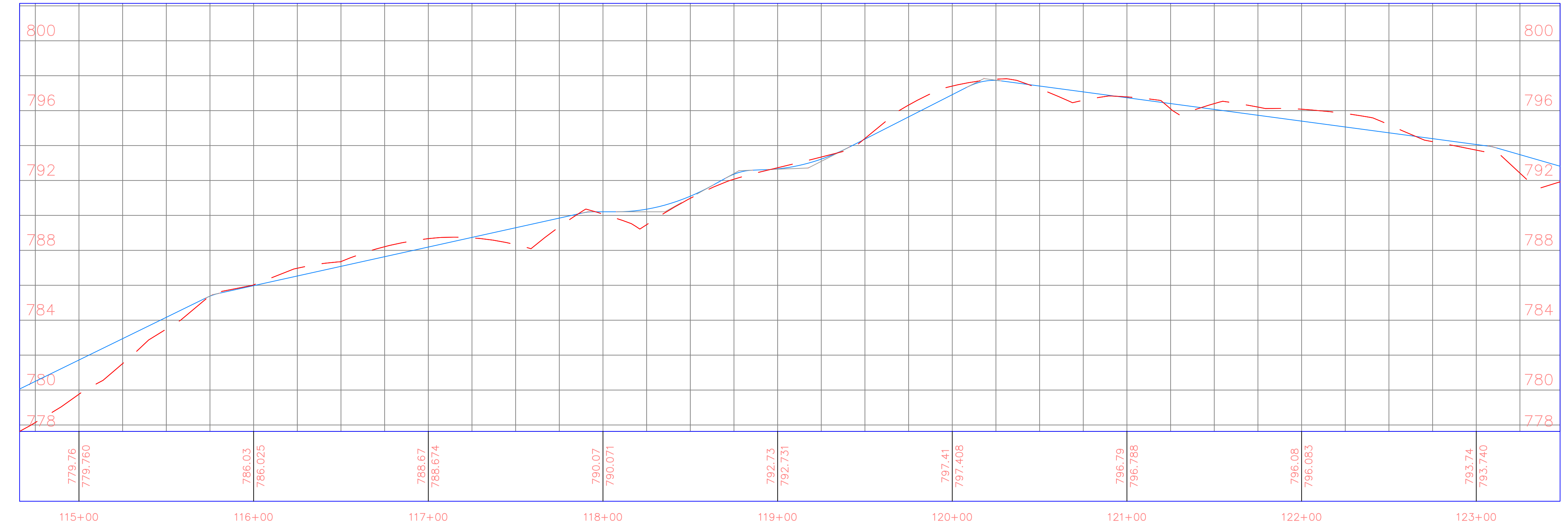
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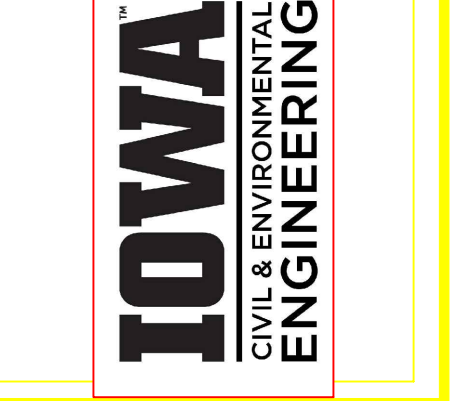


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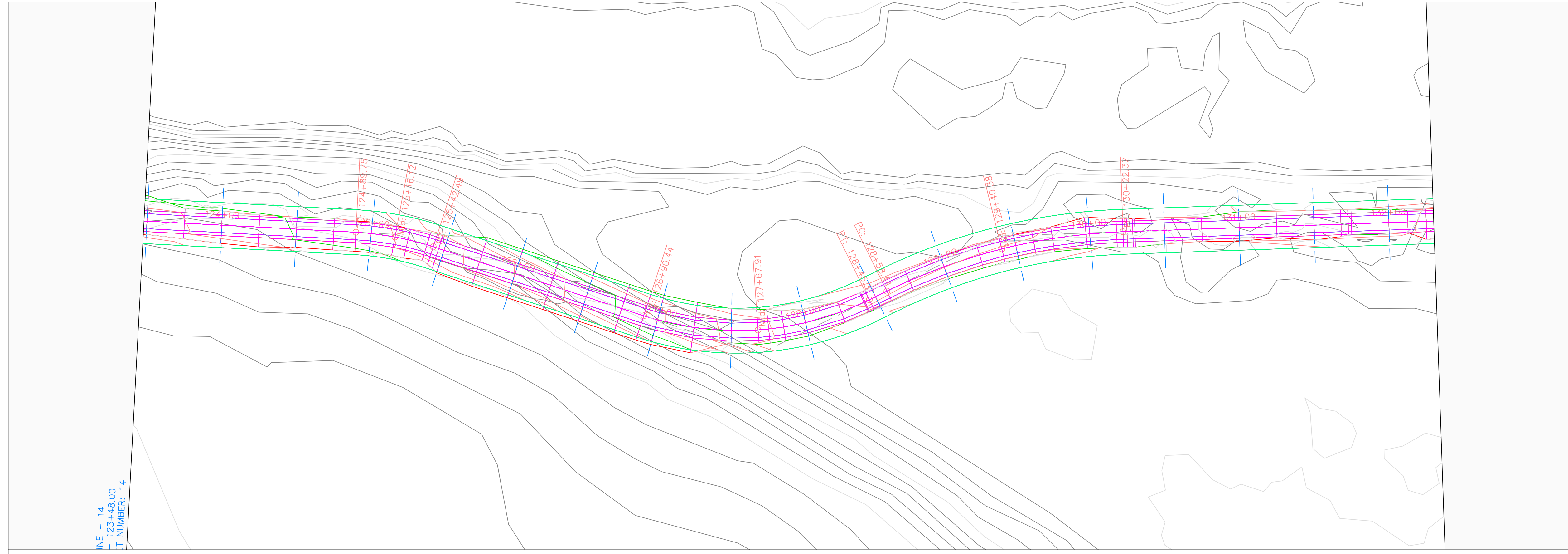
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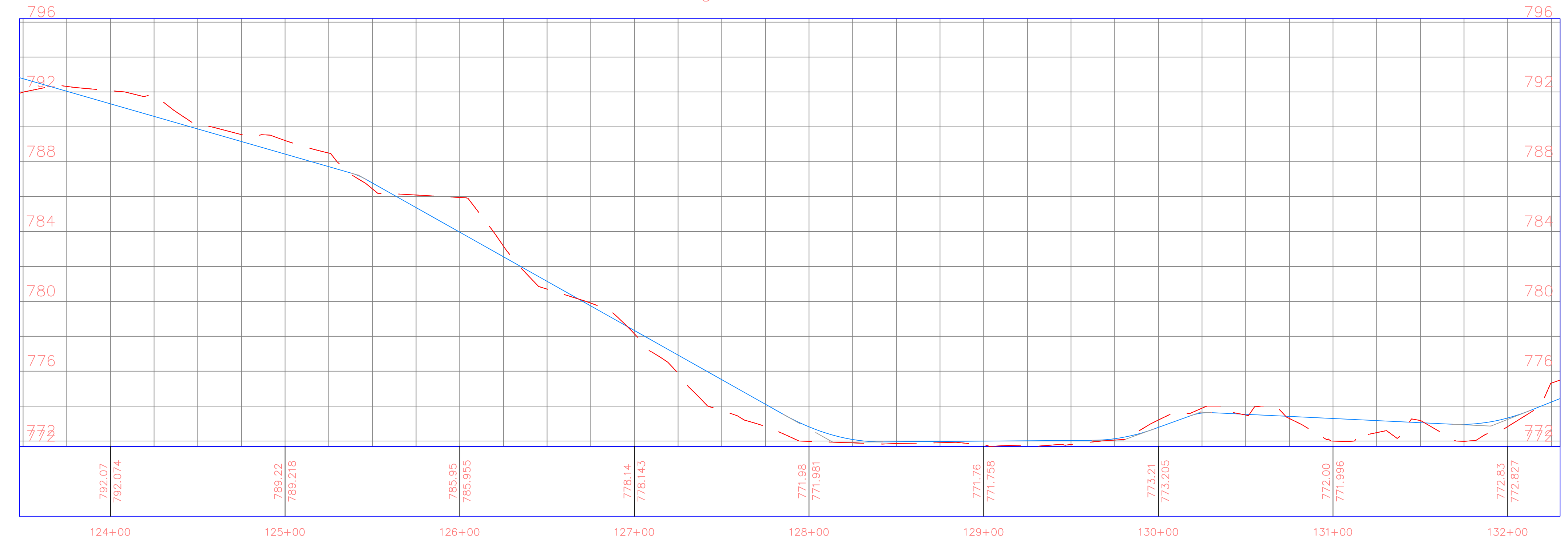
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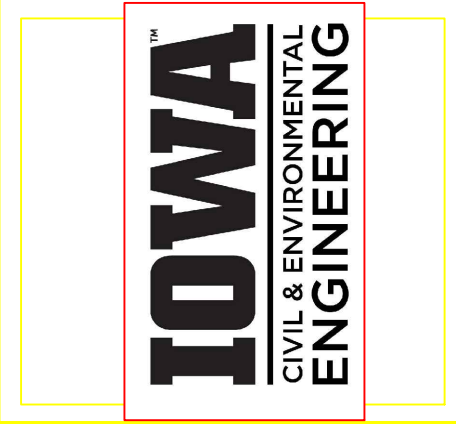
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 DATE: 4/17/2020

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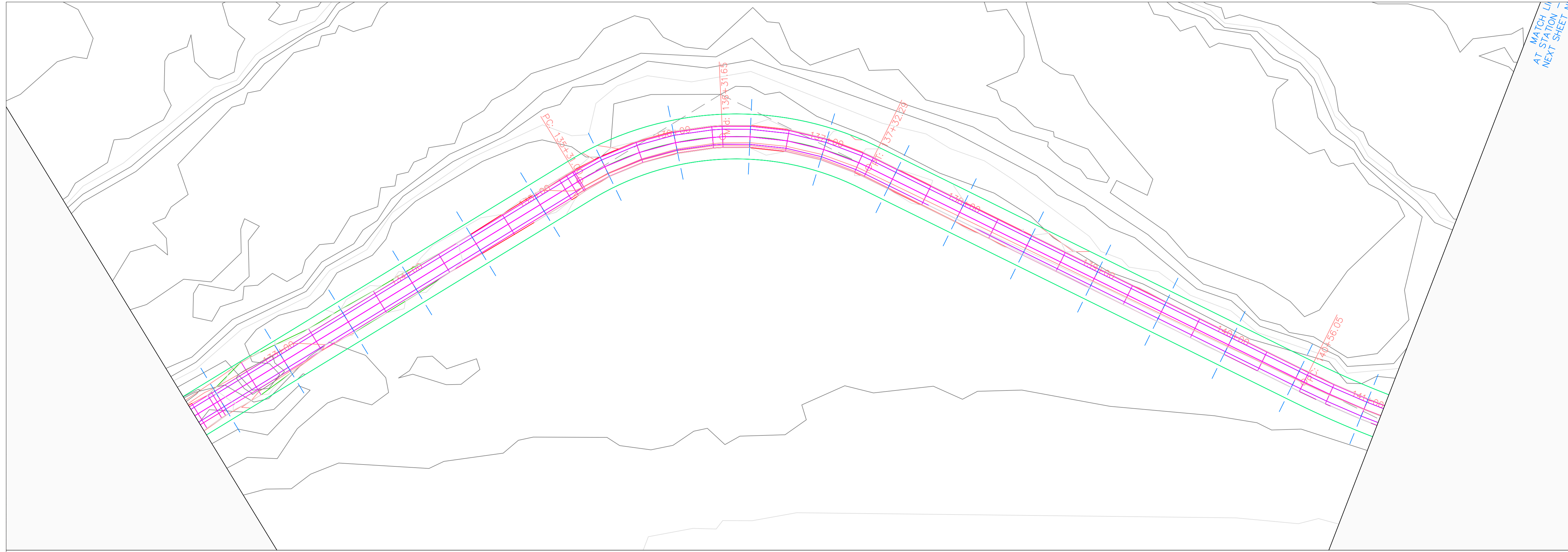
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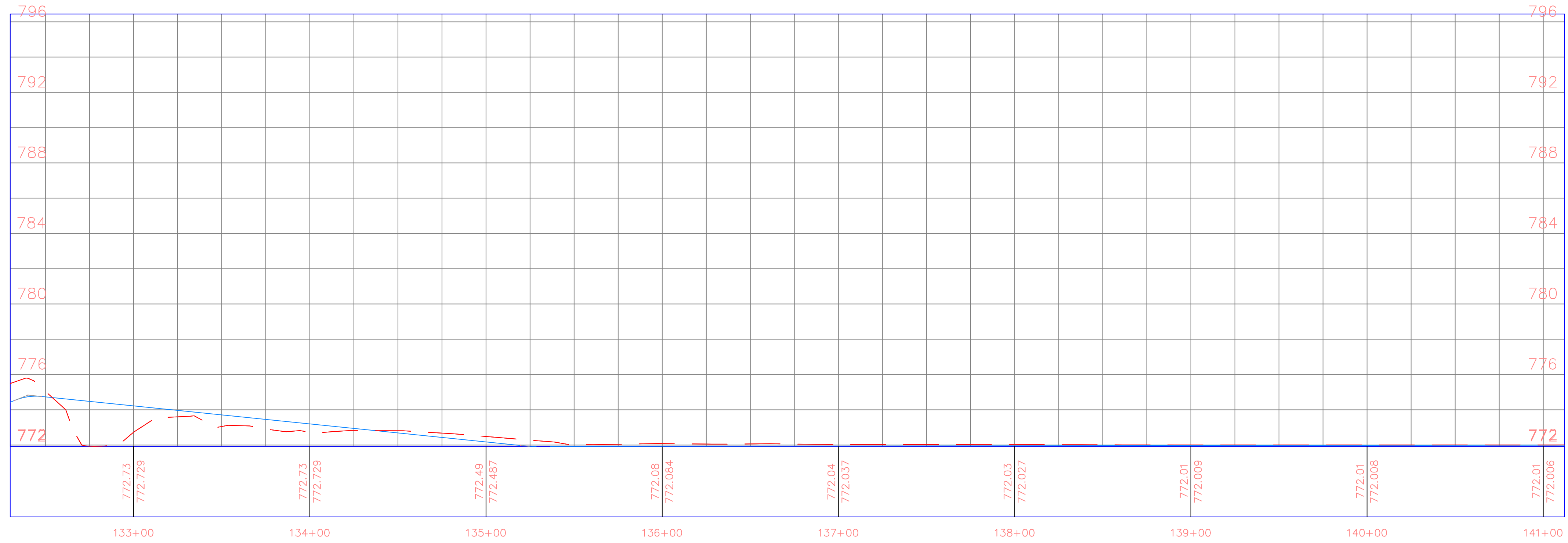
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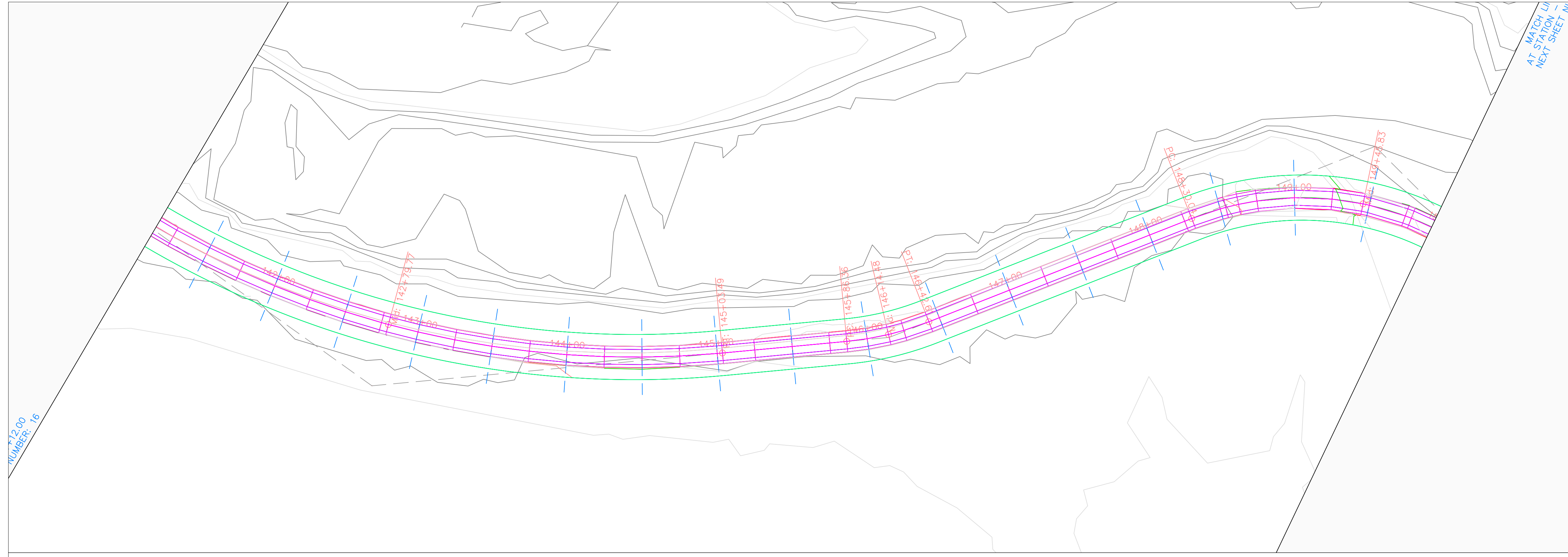
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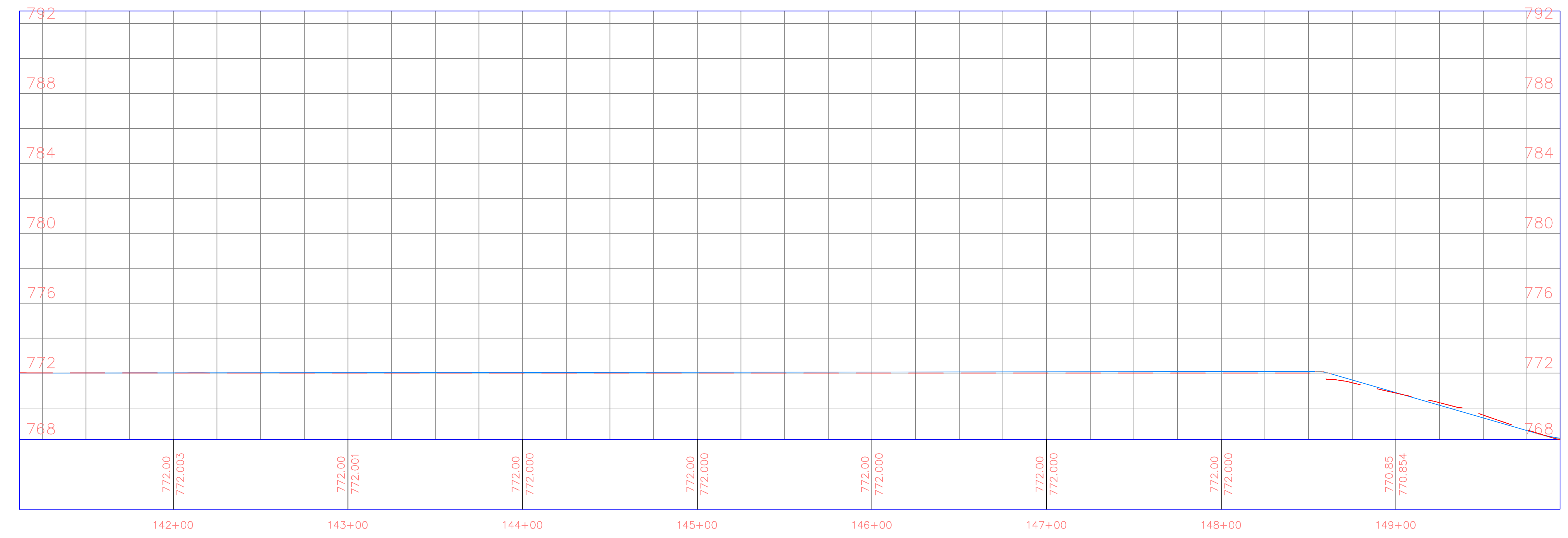
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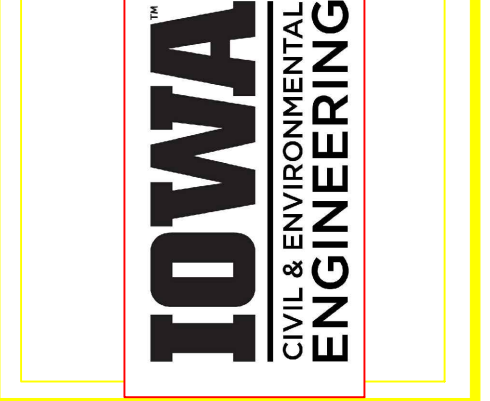


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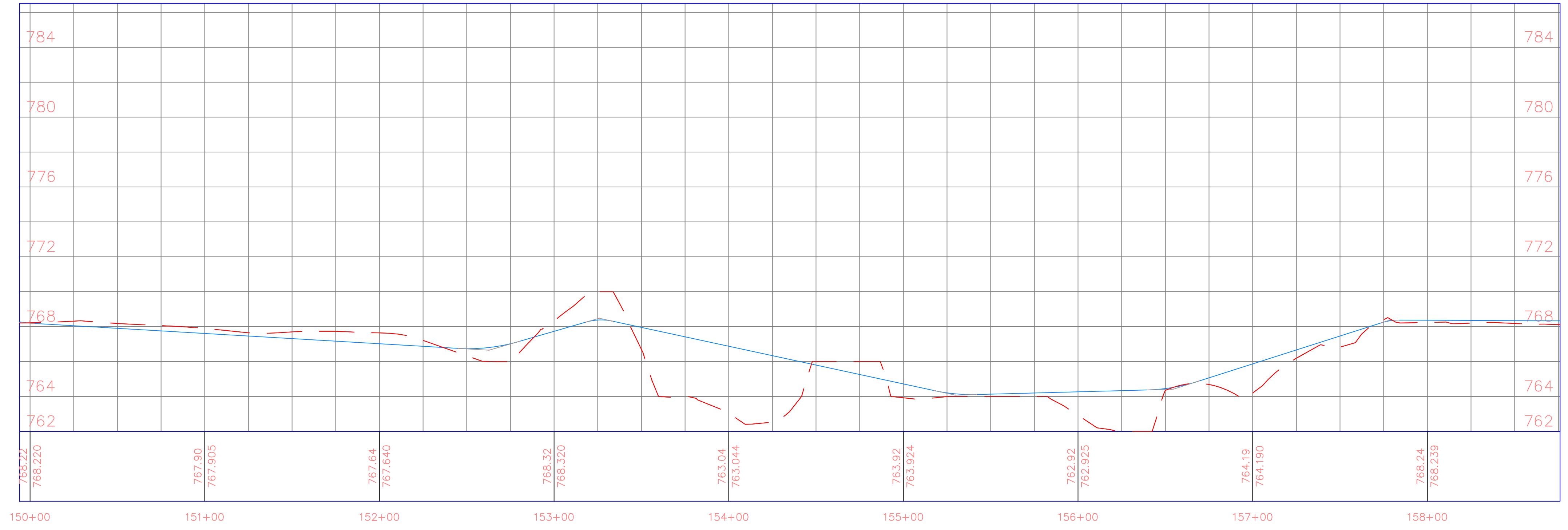
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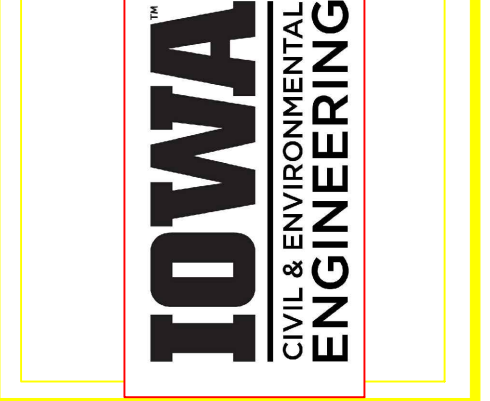


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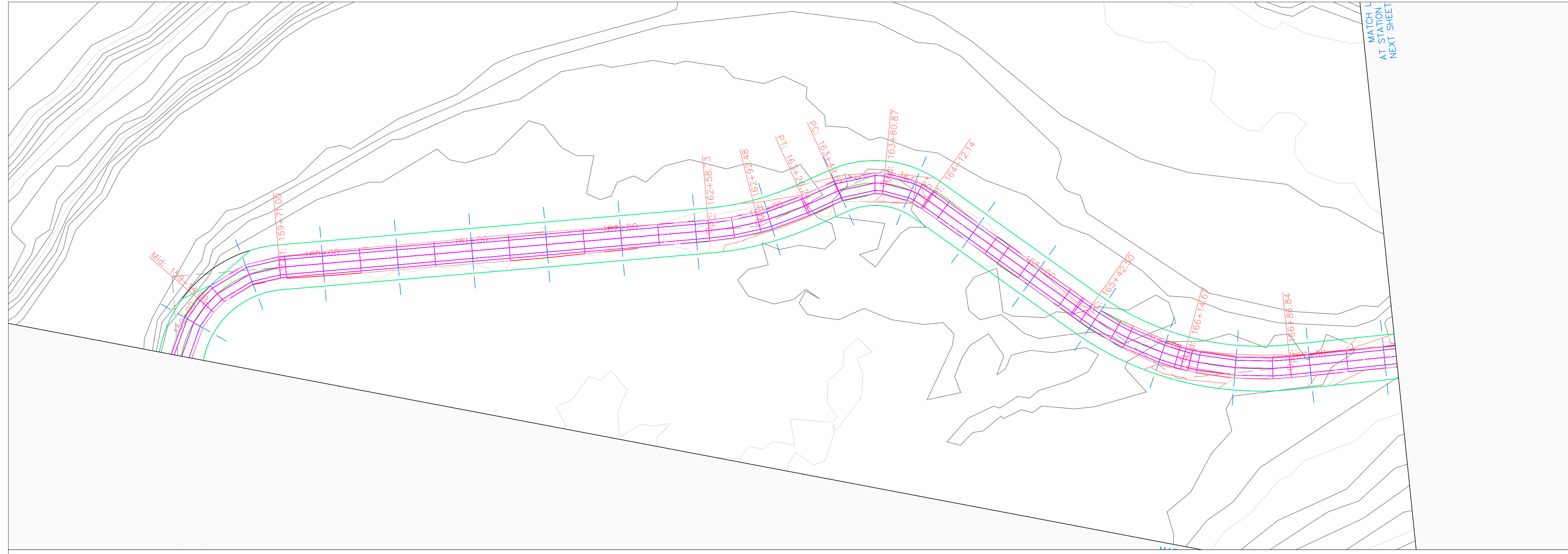
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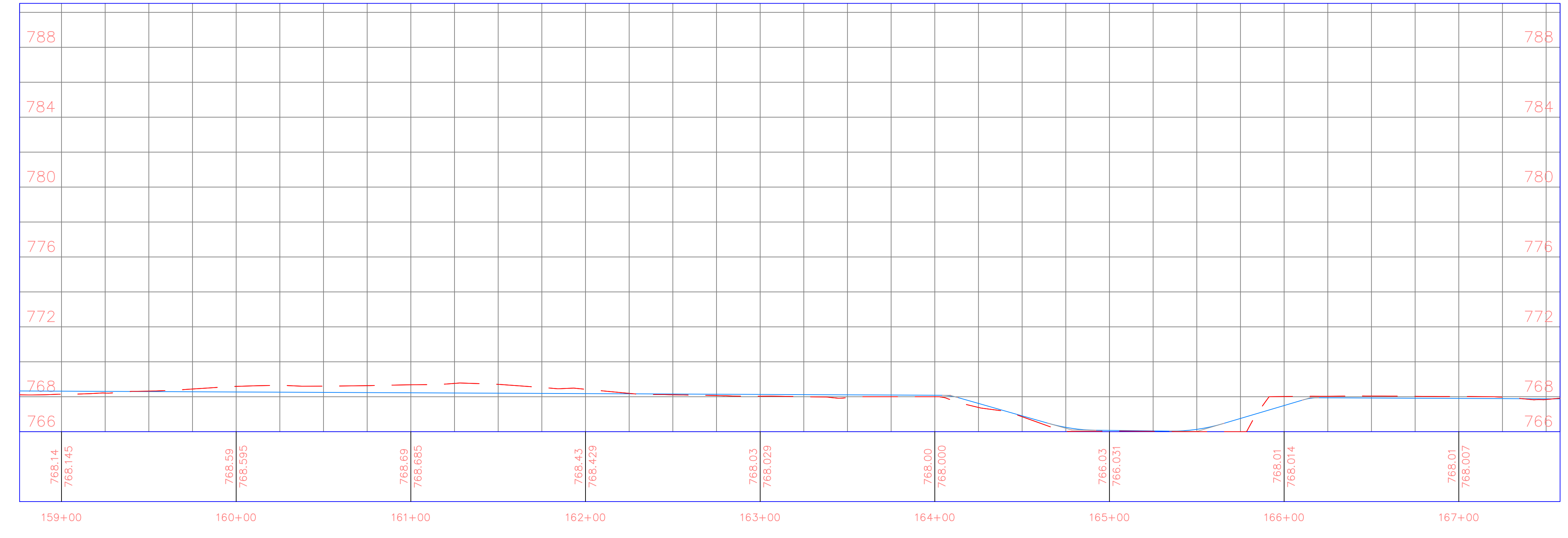
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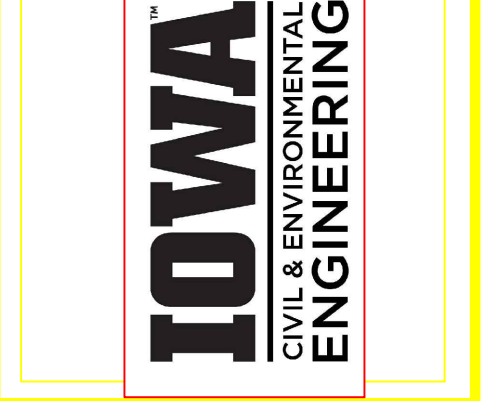


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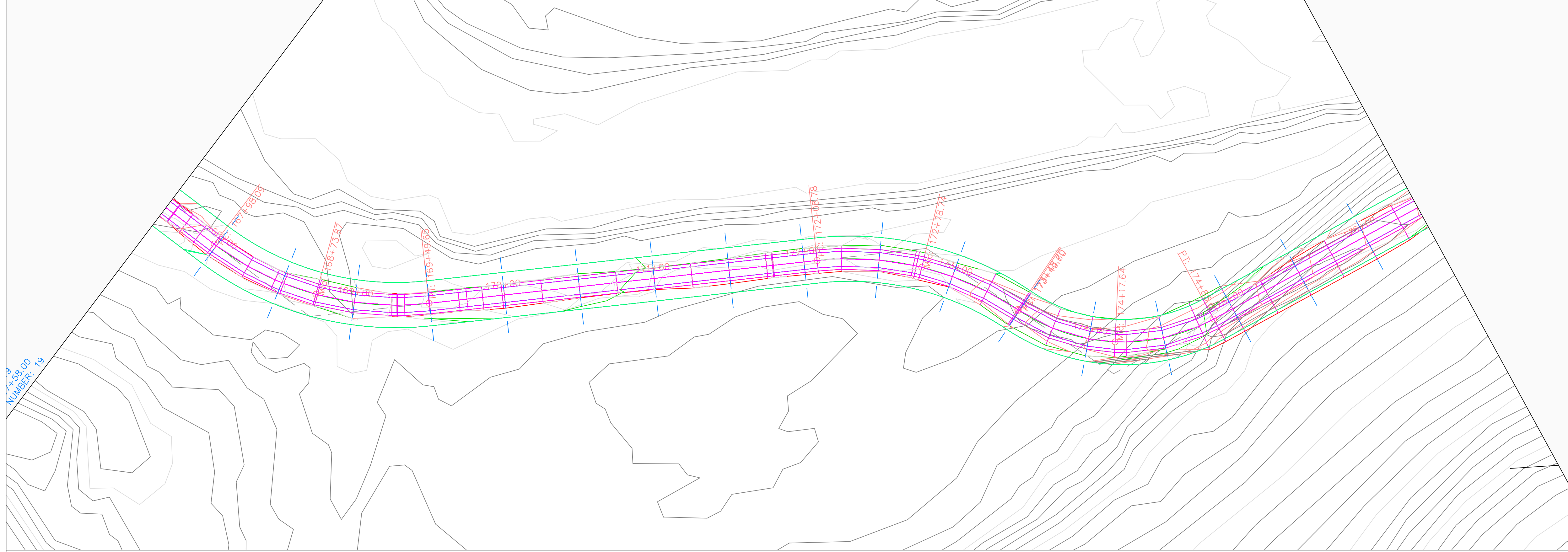
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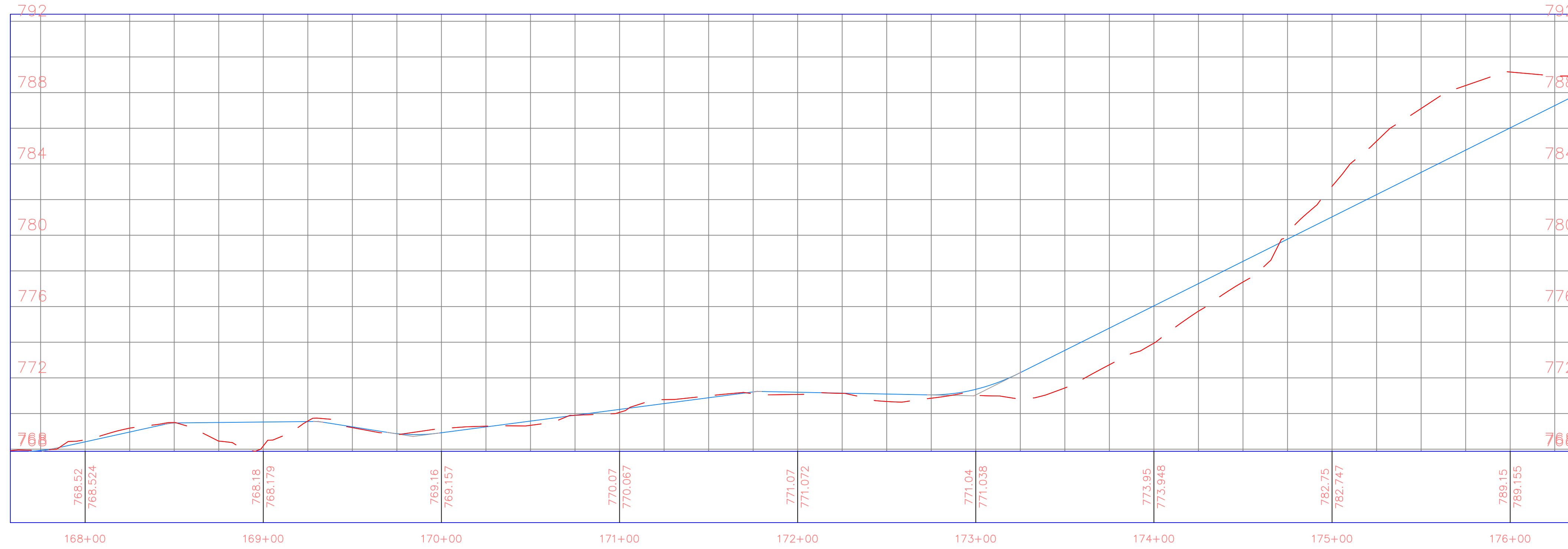
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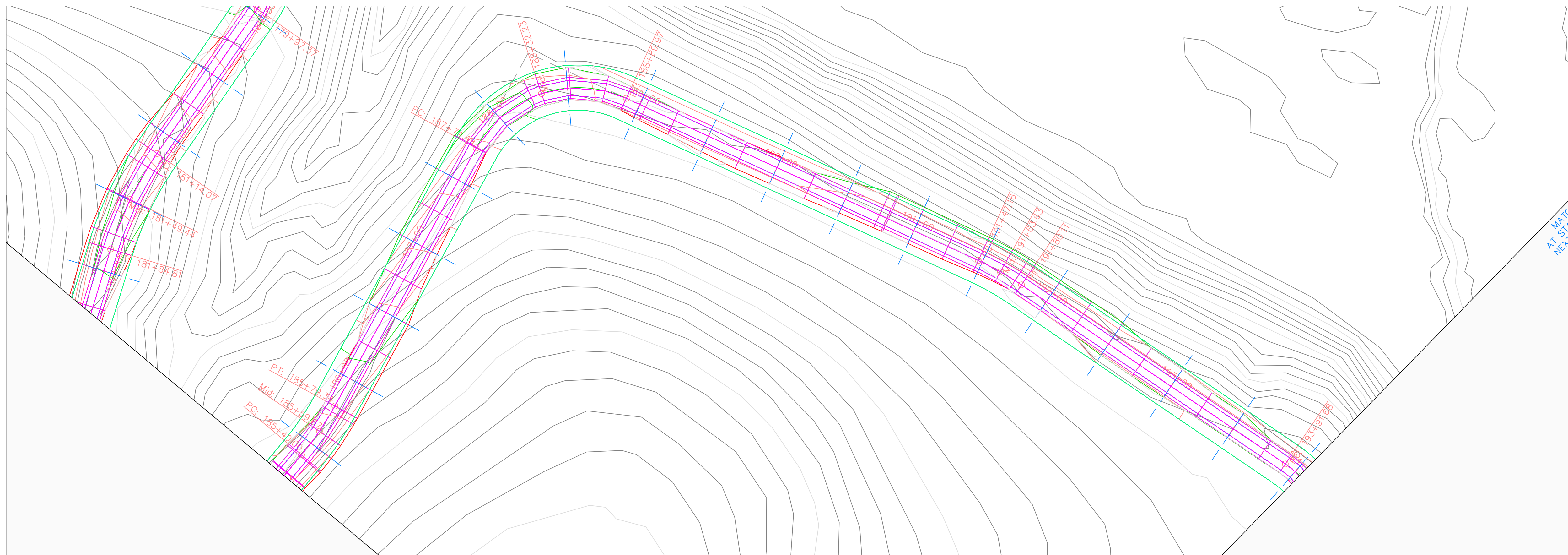
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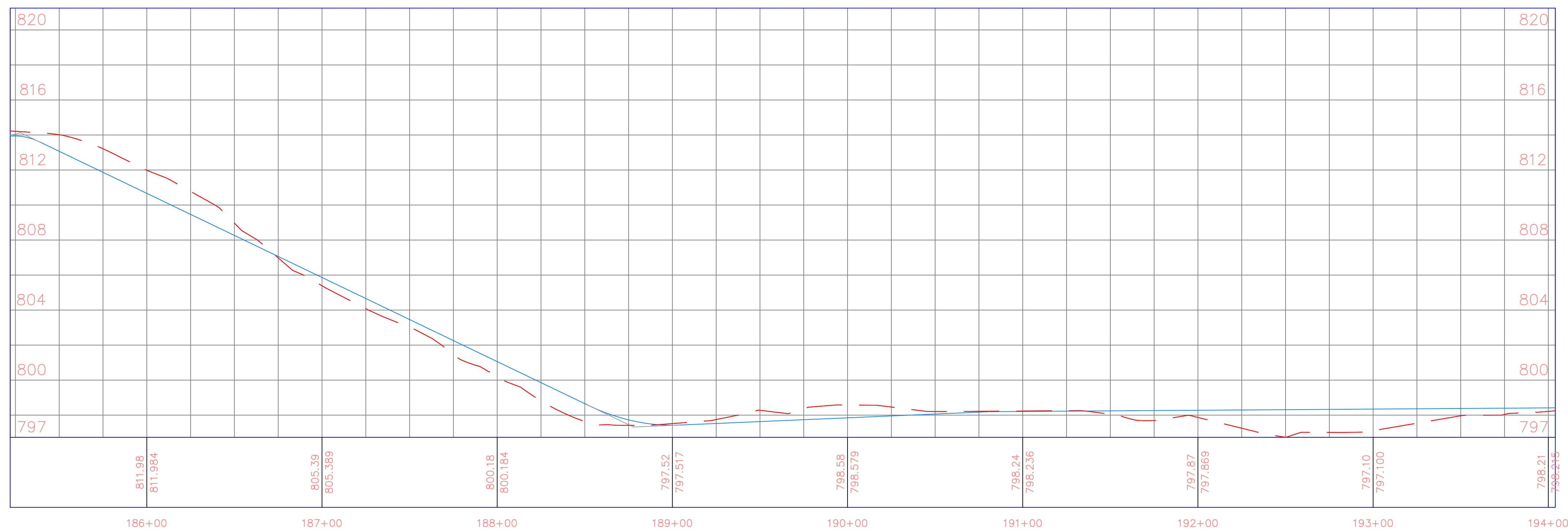
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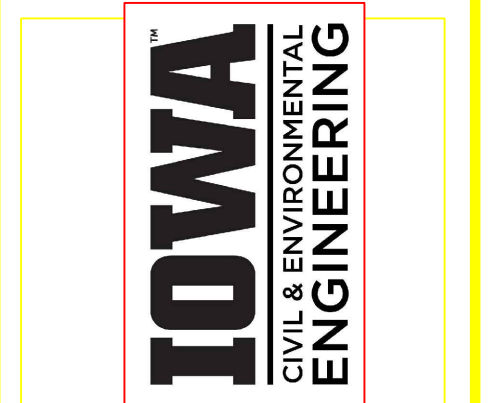


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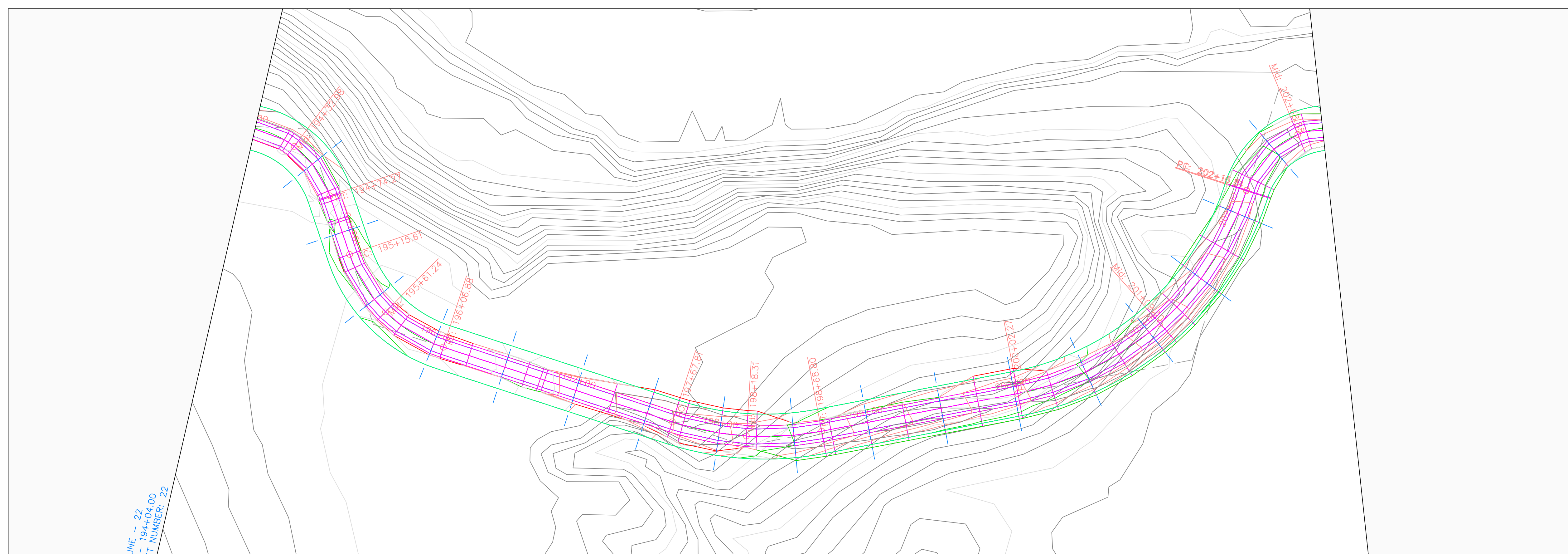
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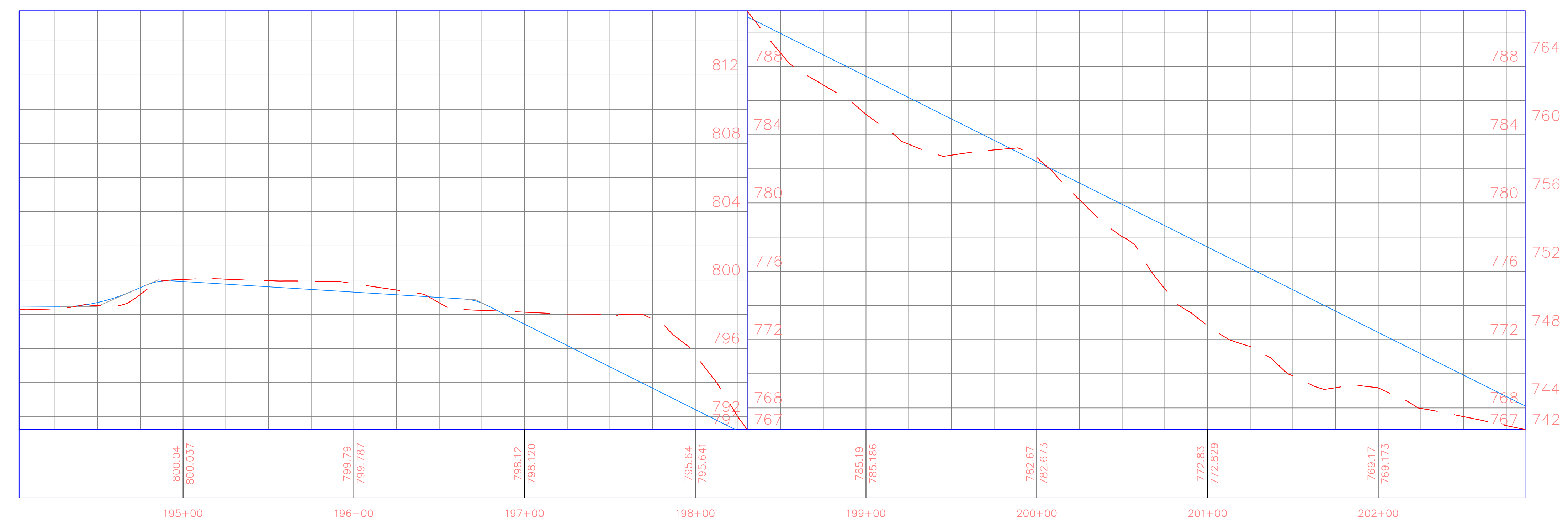
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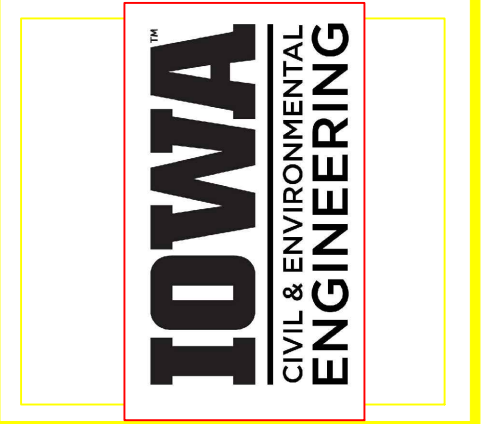
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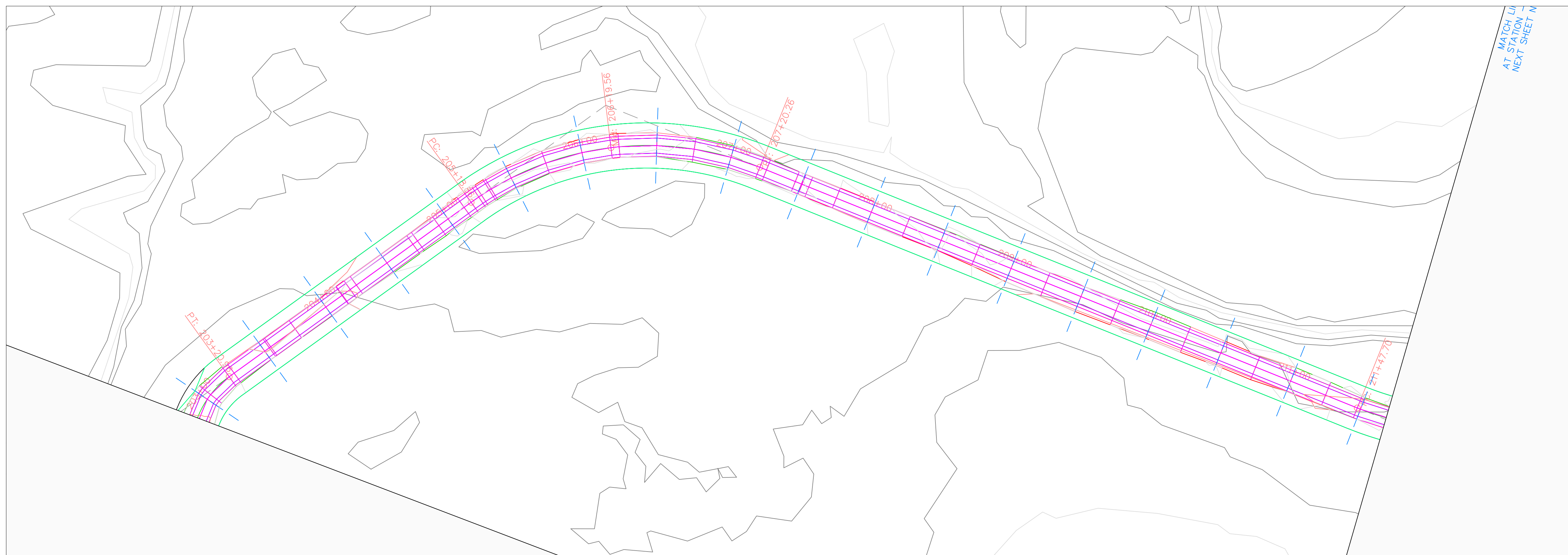
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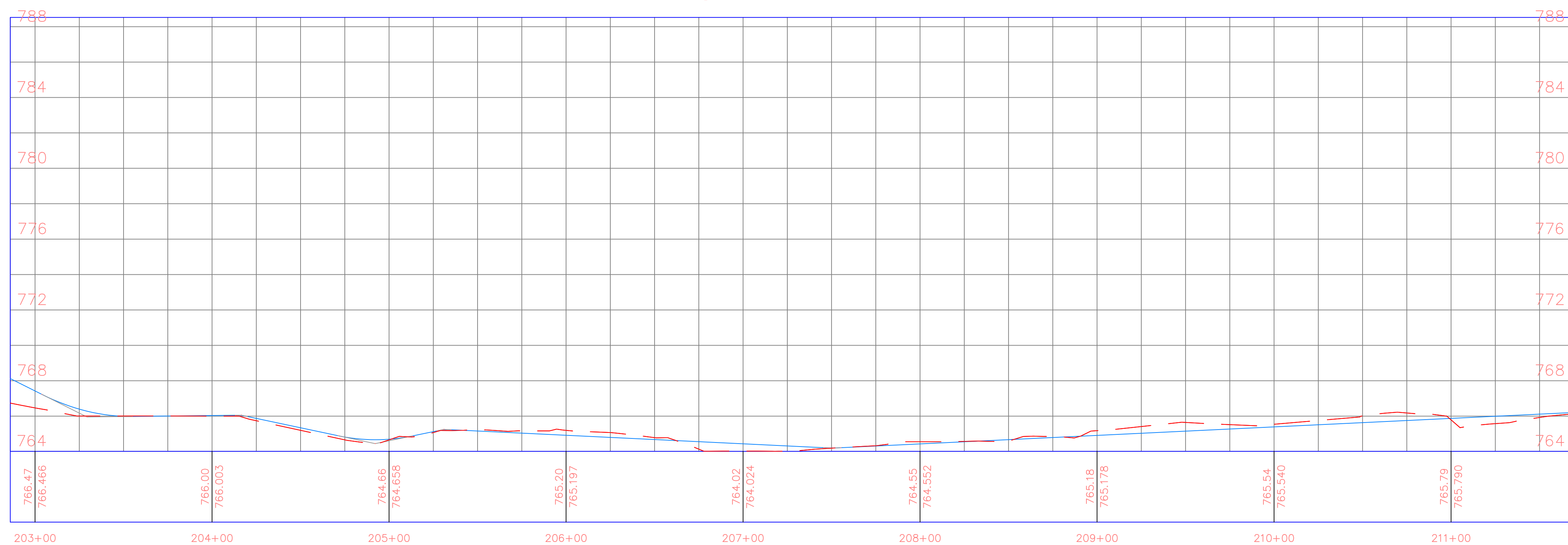
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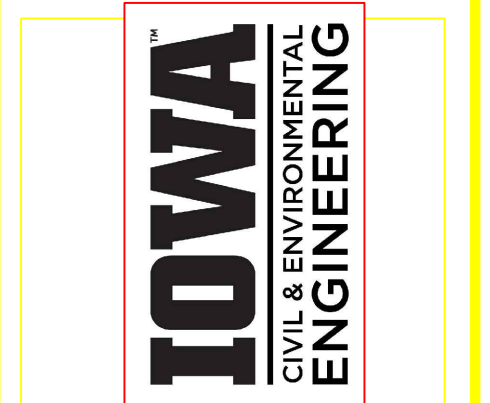


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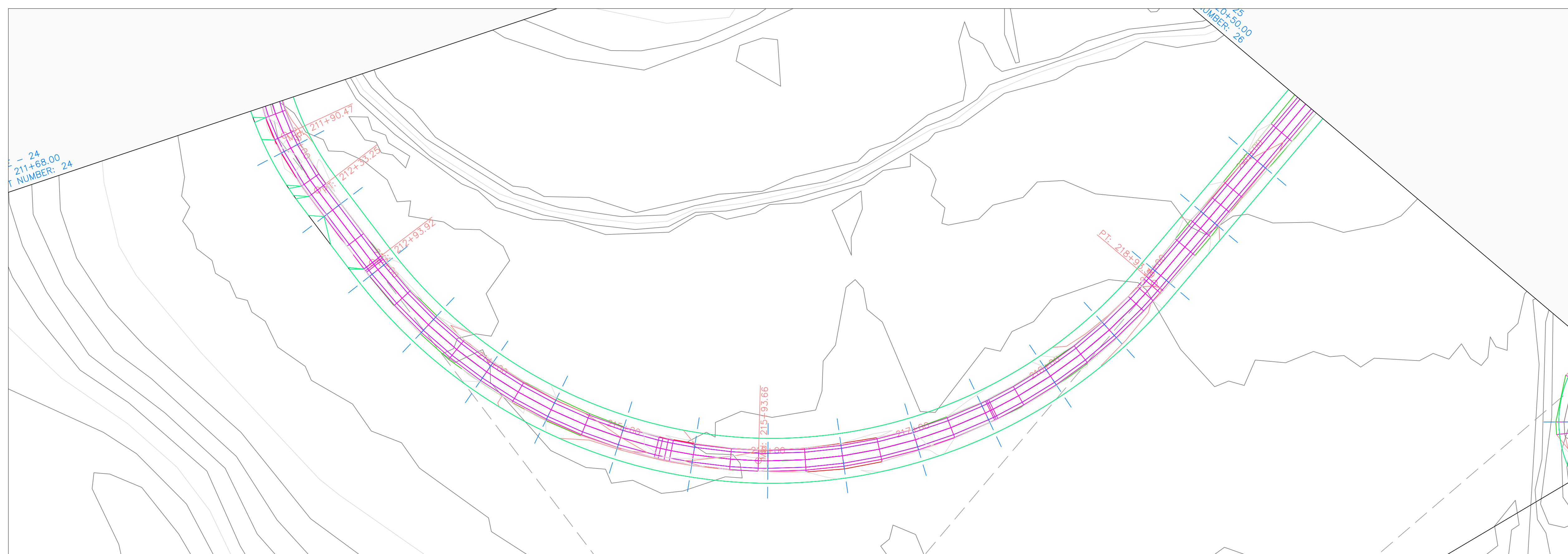


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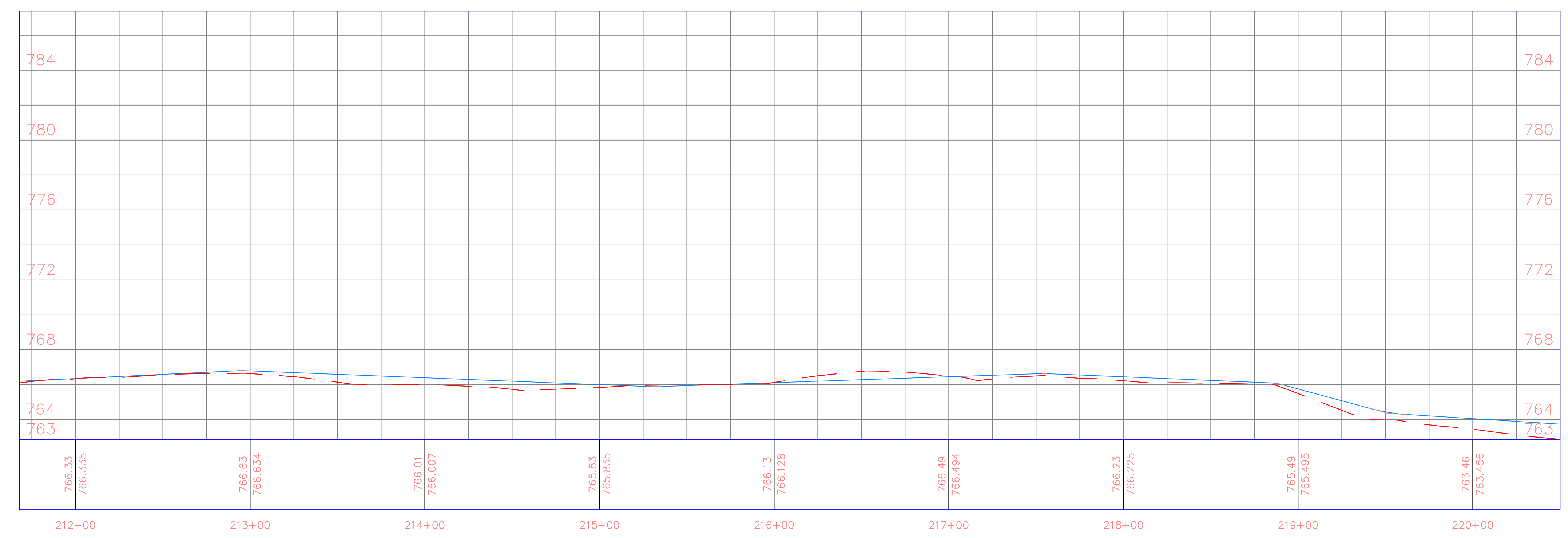
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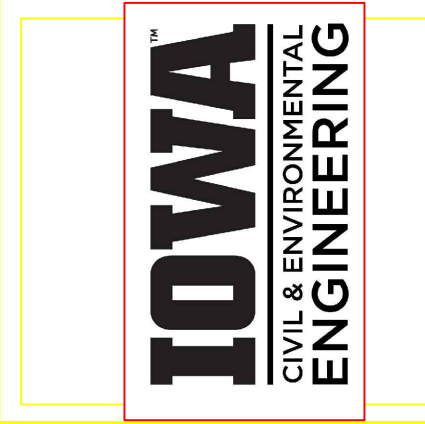


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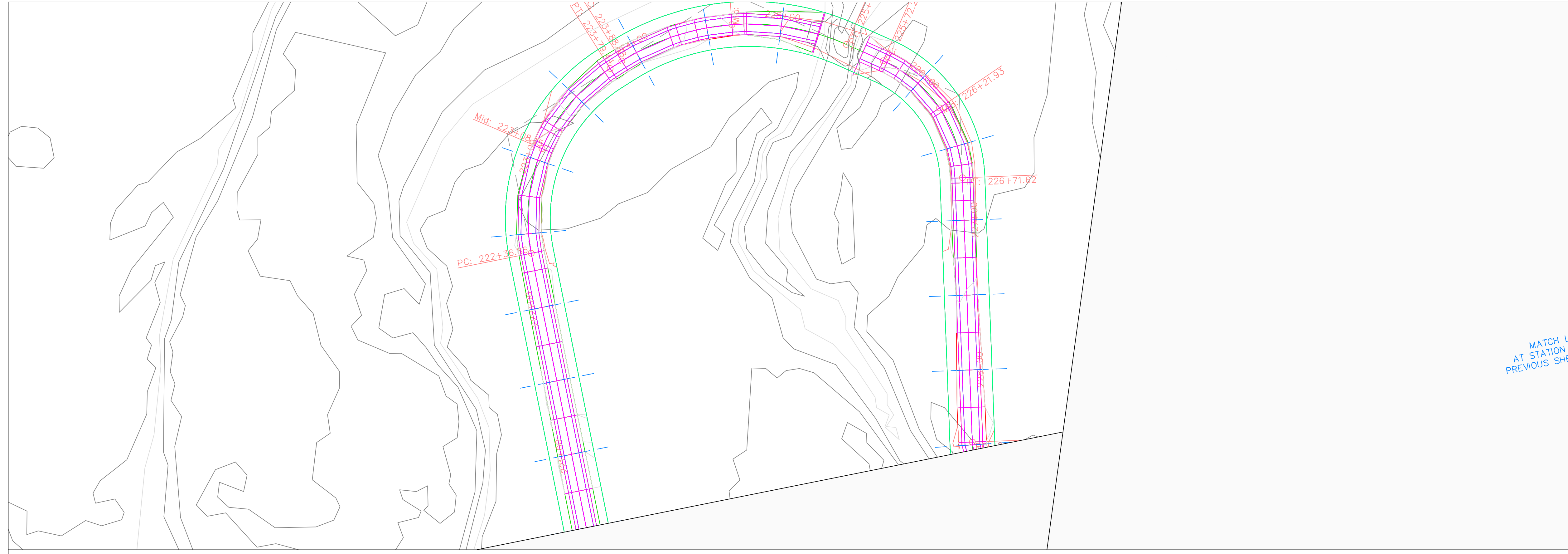
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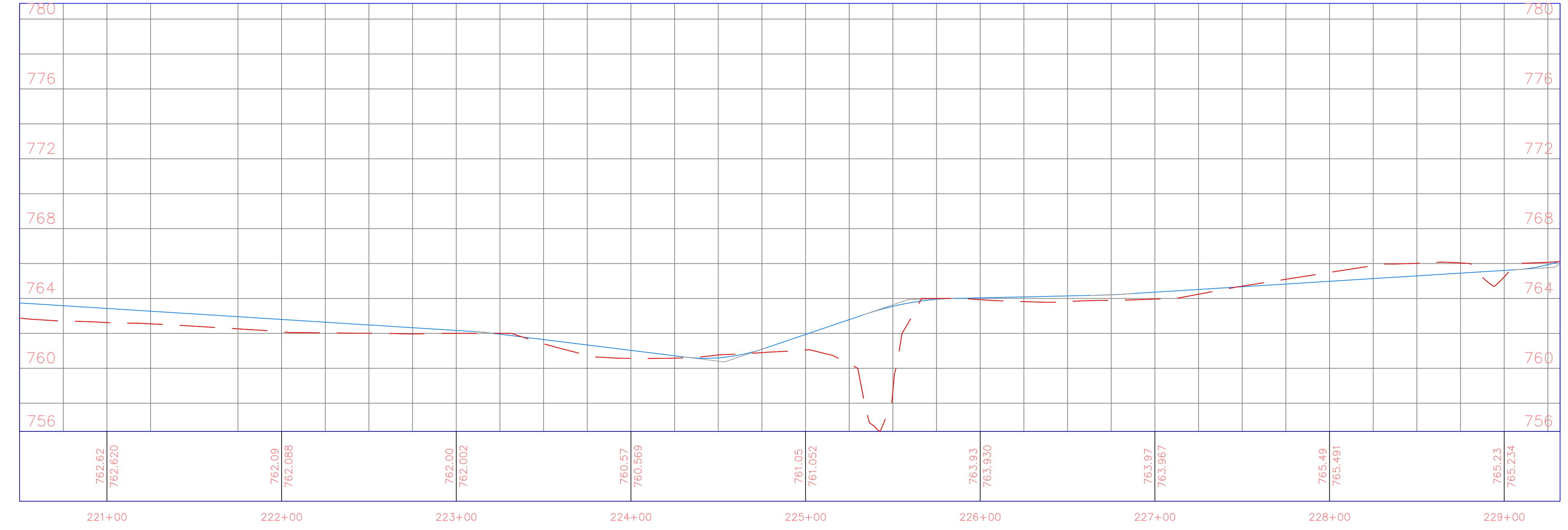
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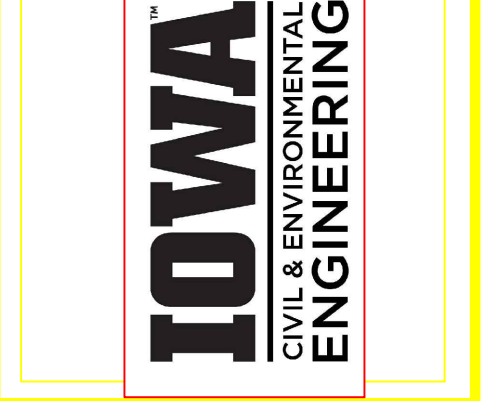


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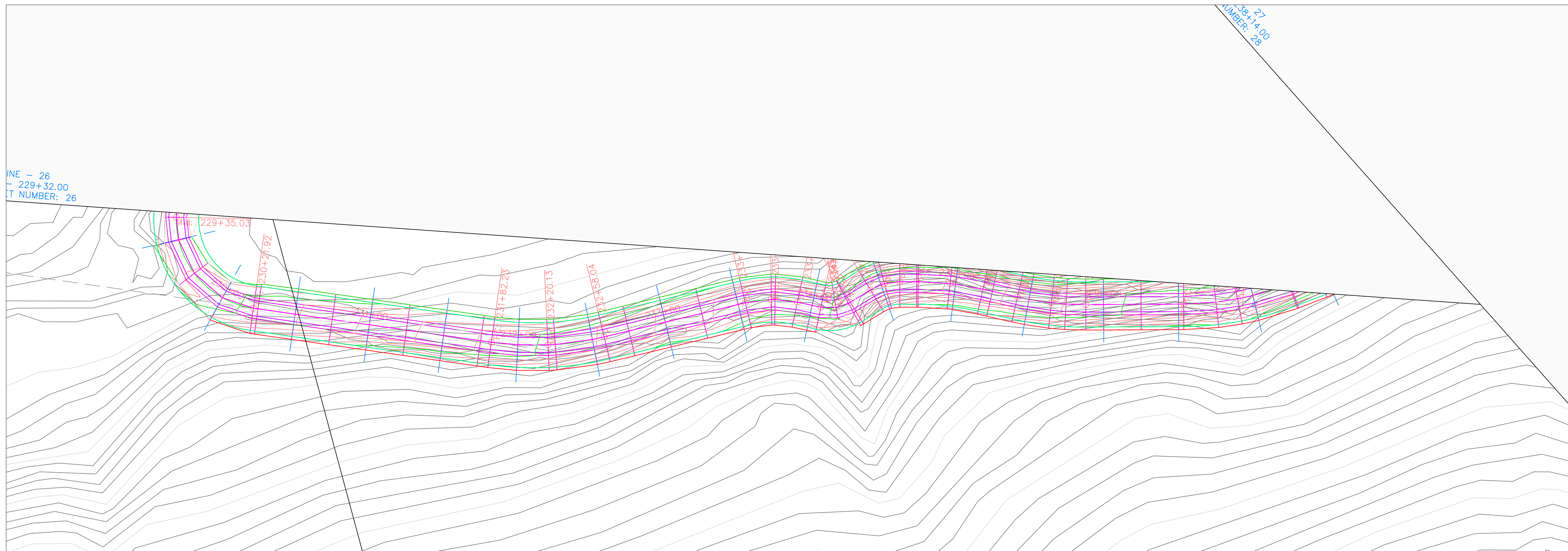
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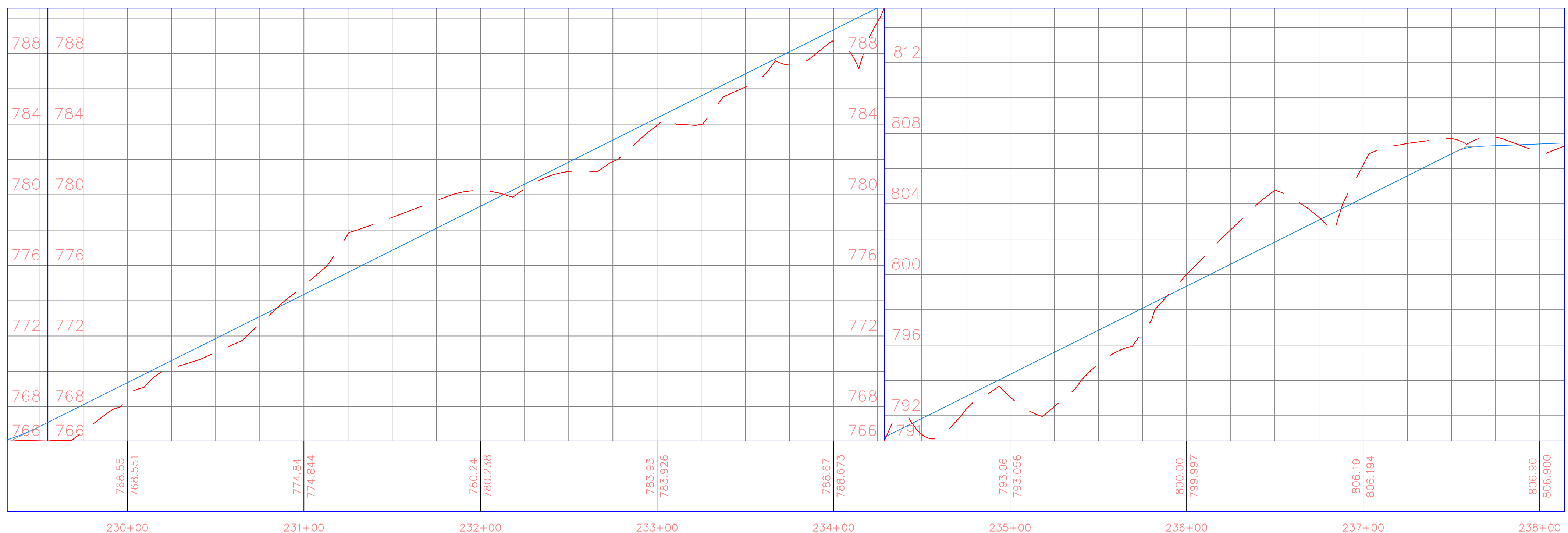
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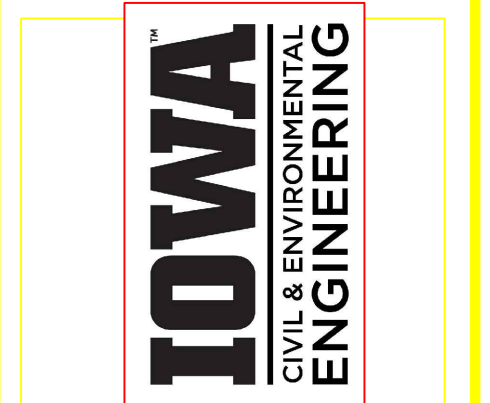
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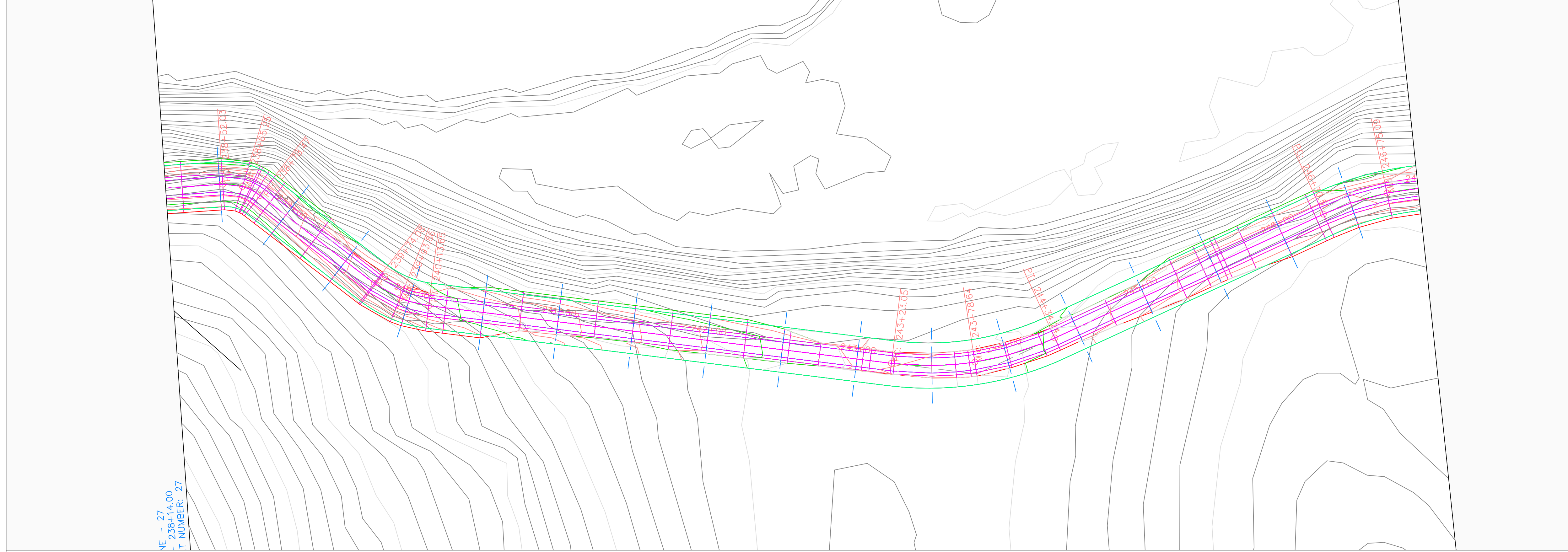
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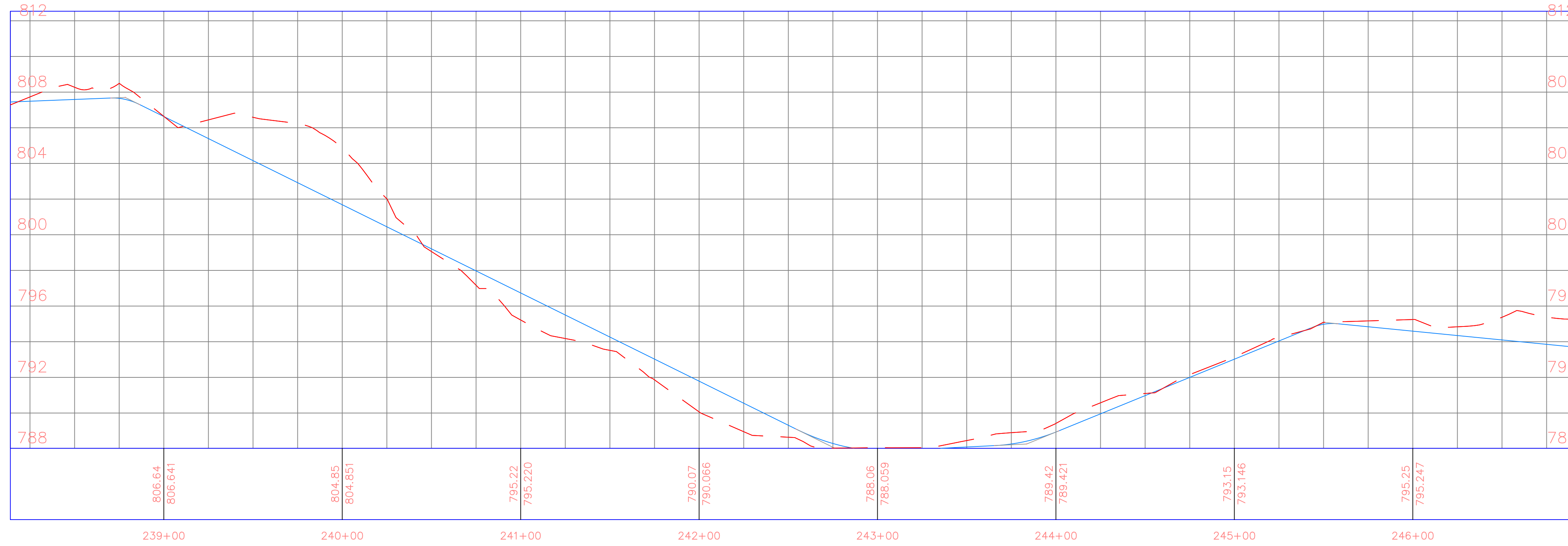
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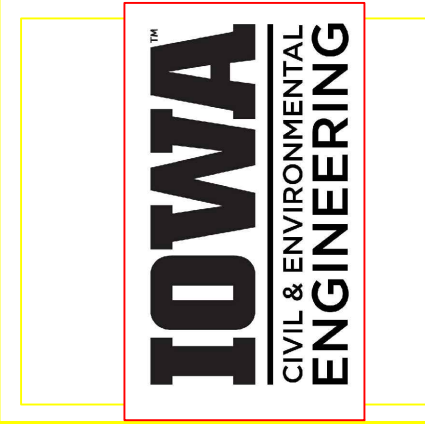
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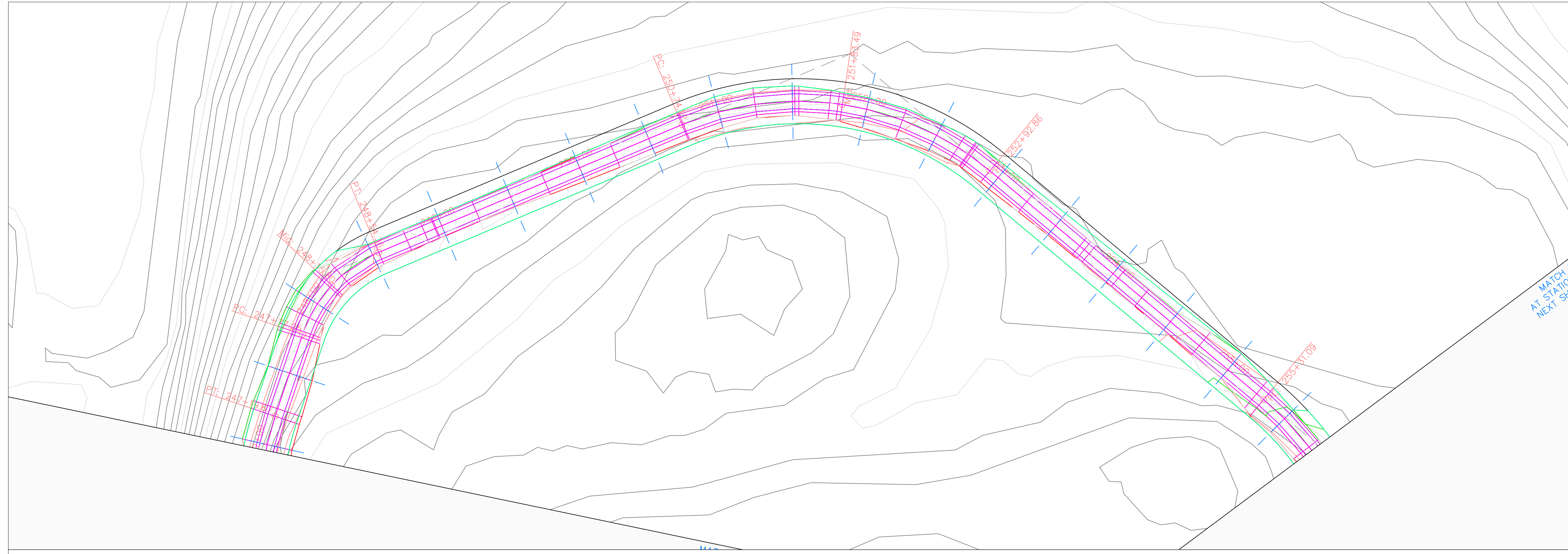


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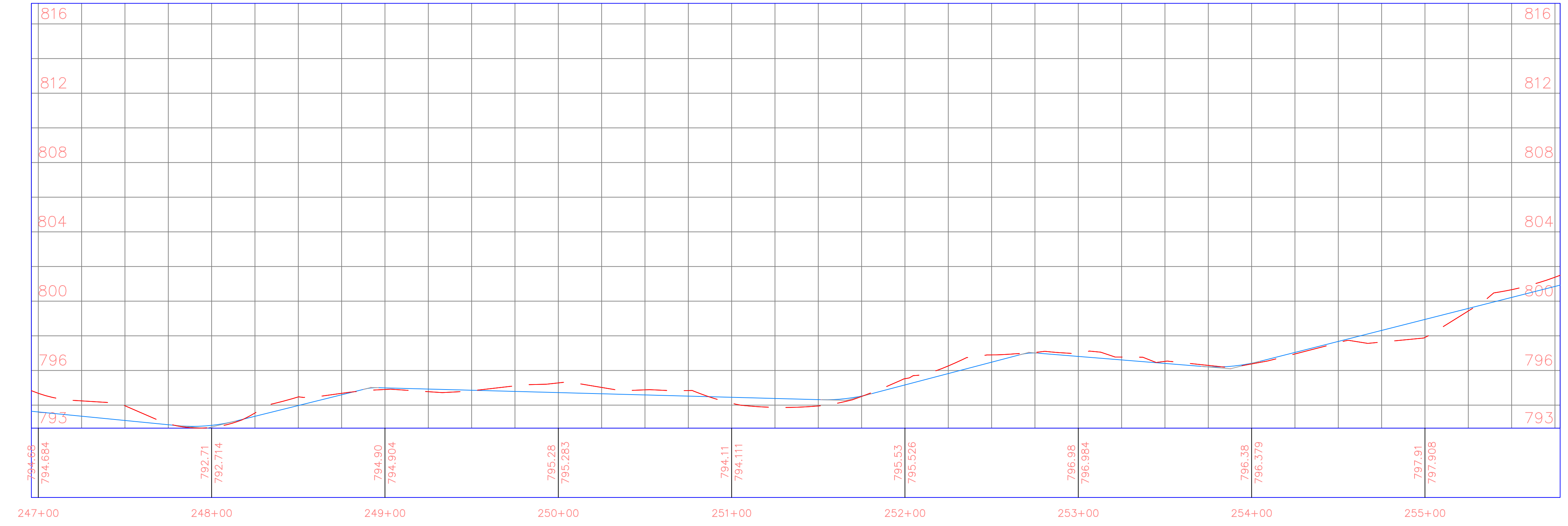
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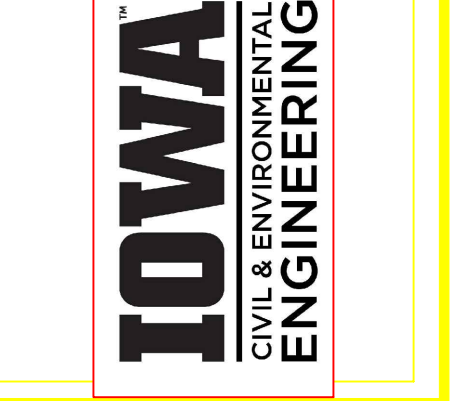


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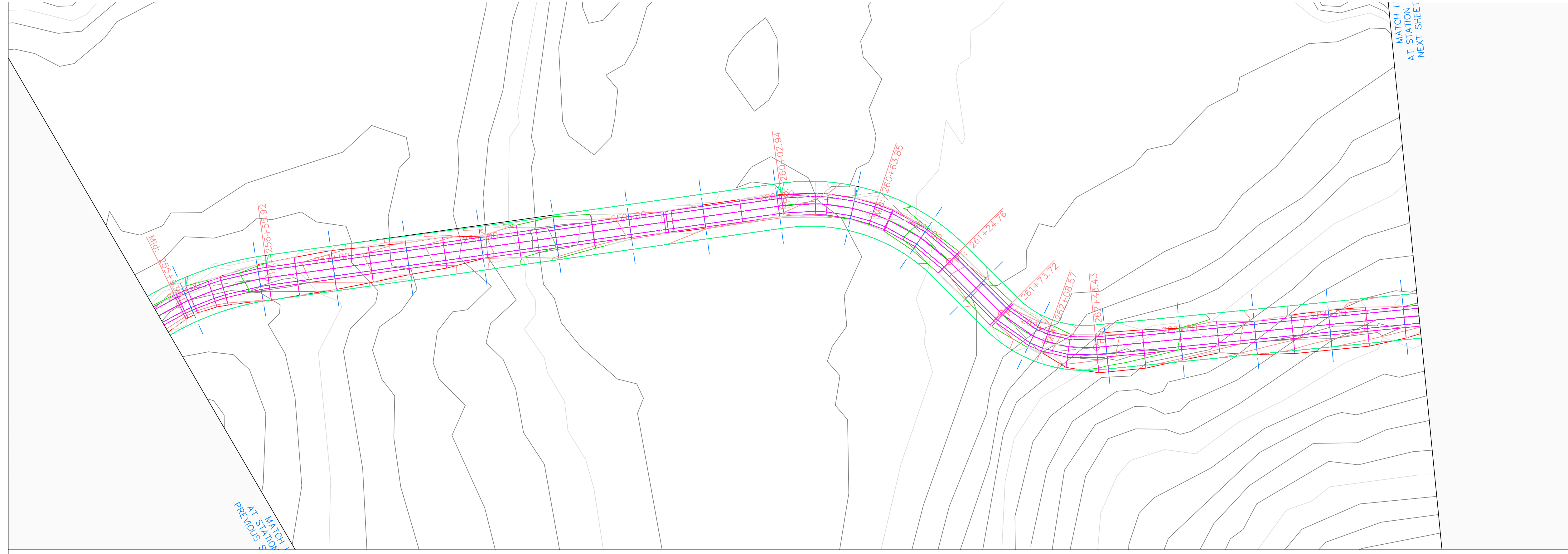
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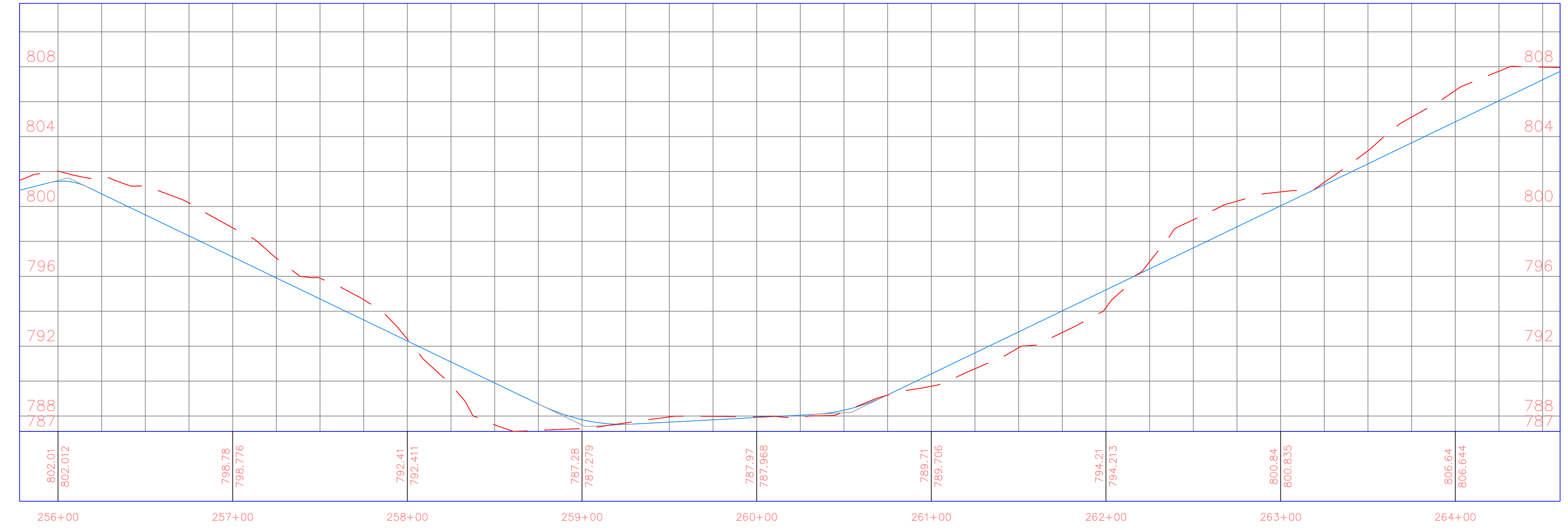
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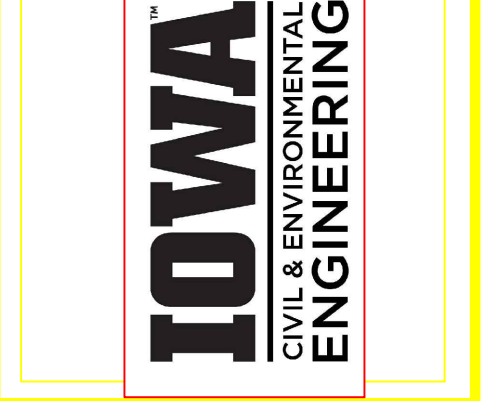


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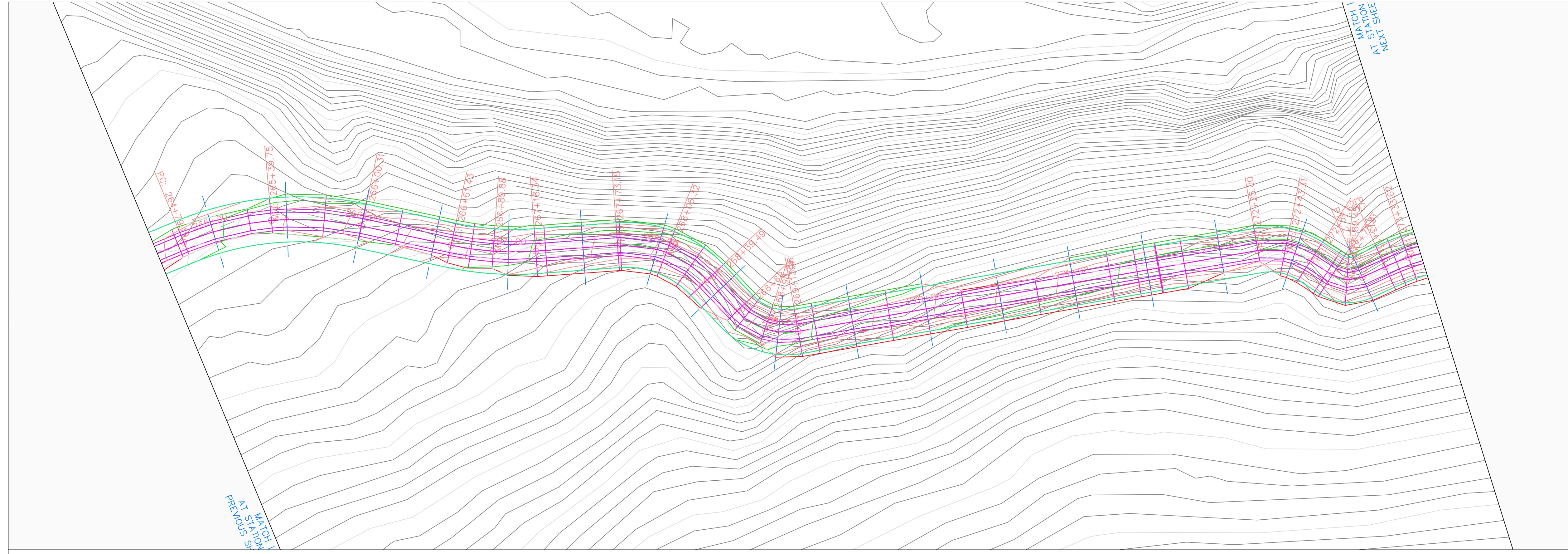
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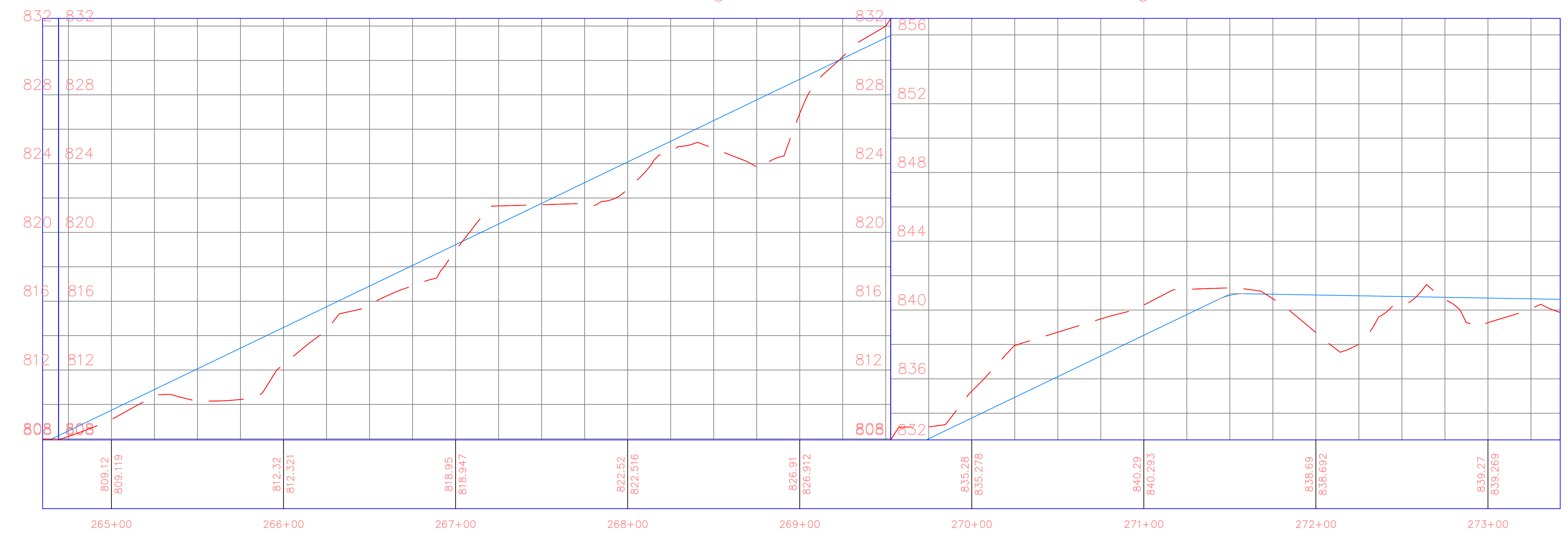
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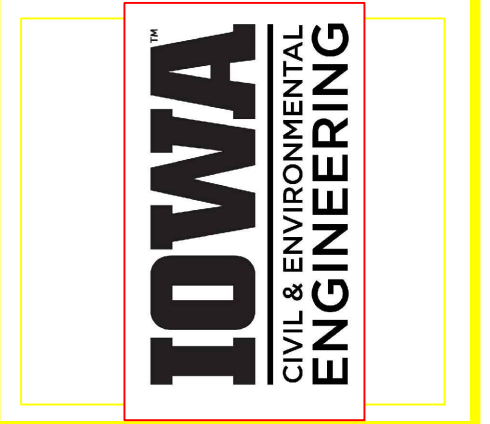
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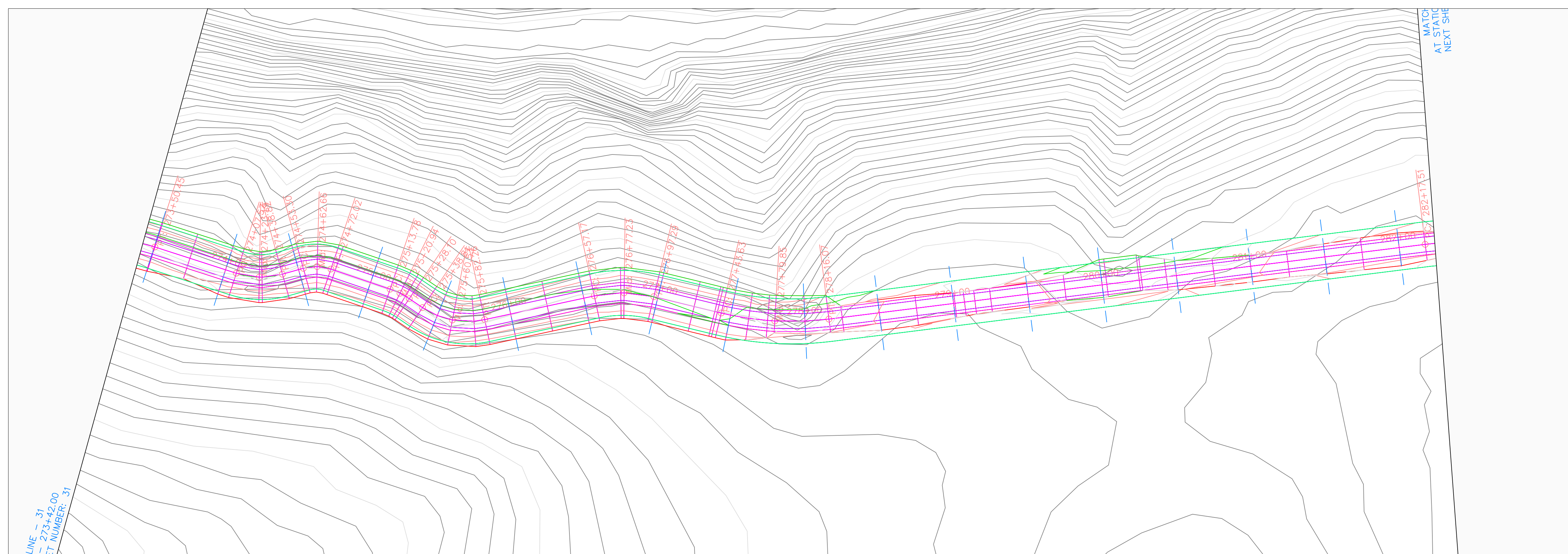
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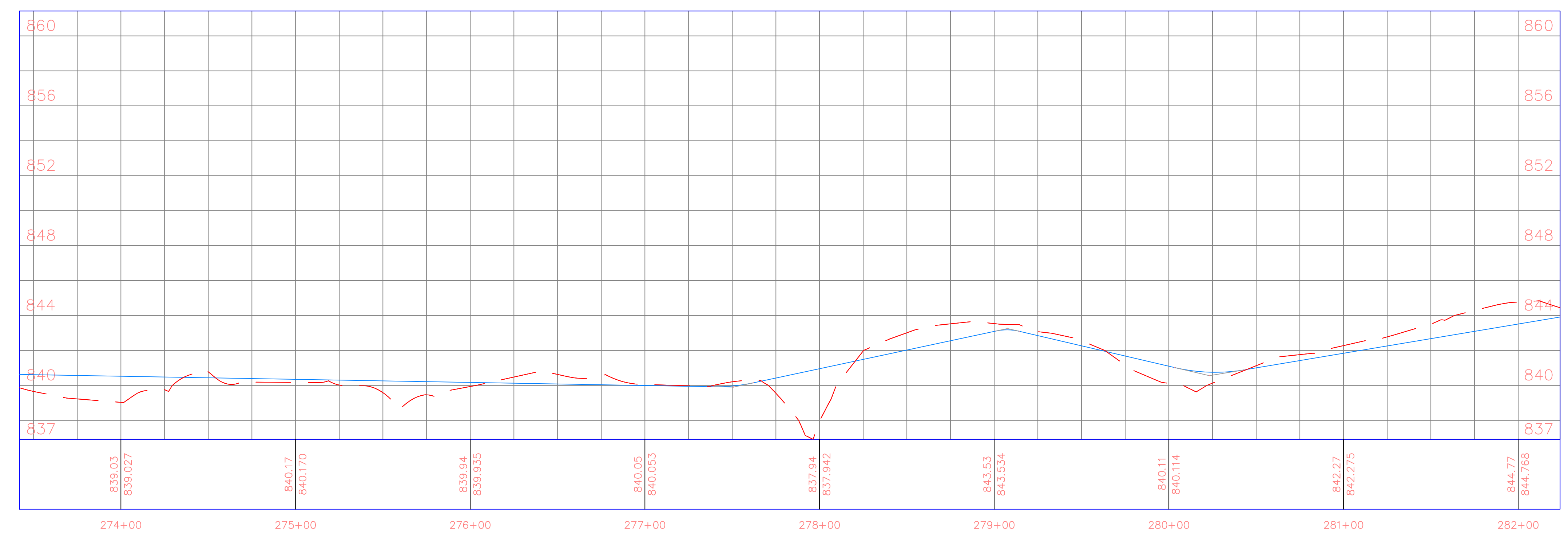
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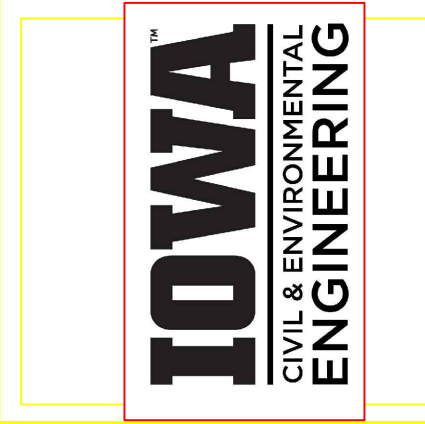


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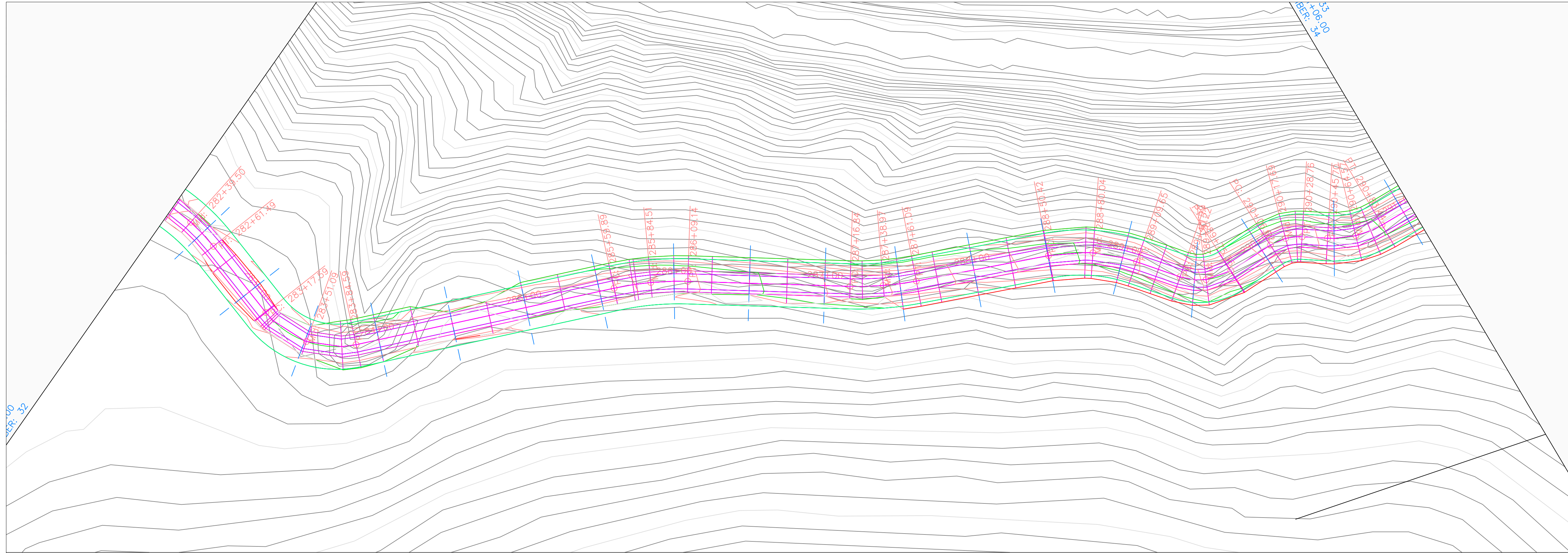
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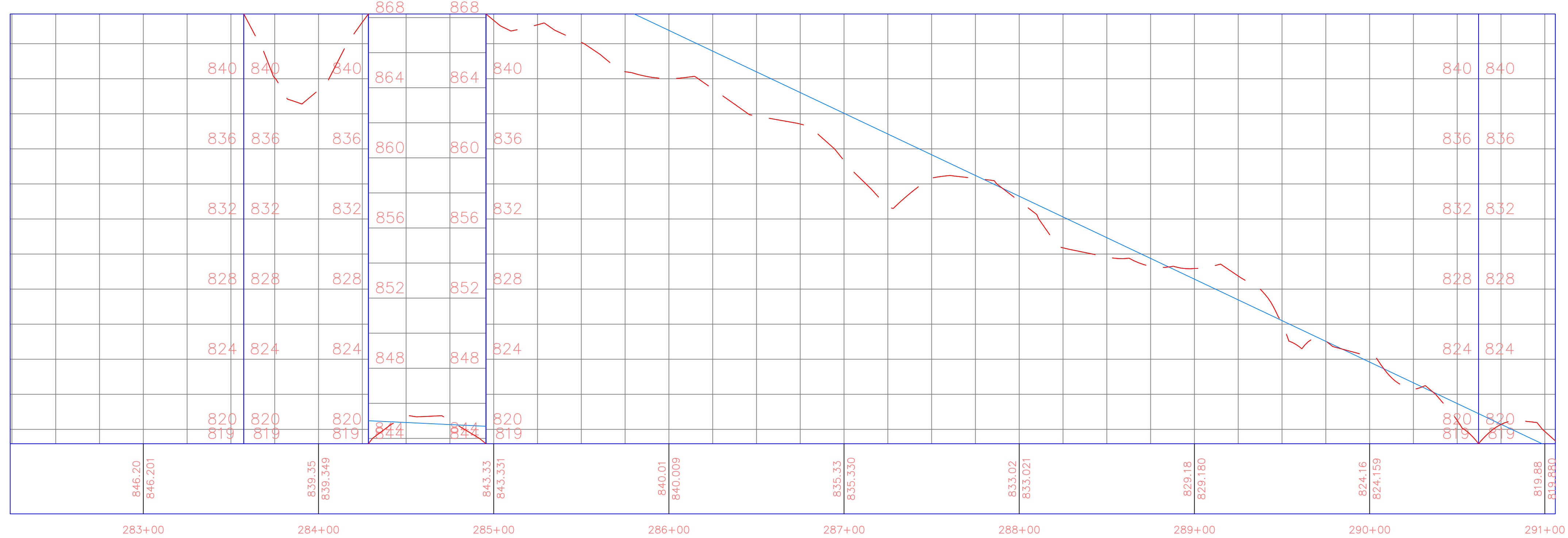
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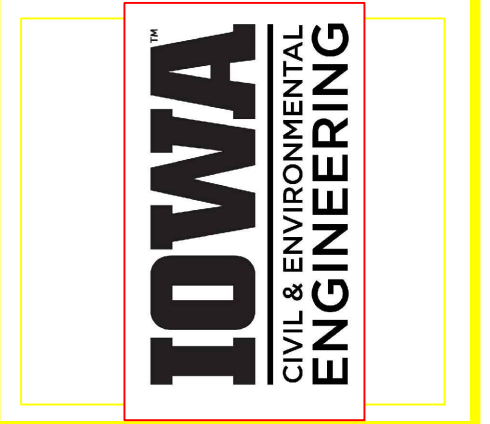
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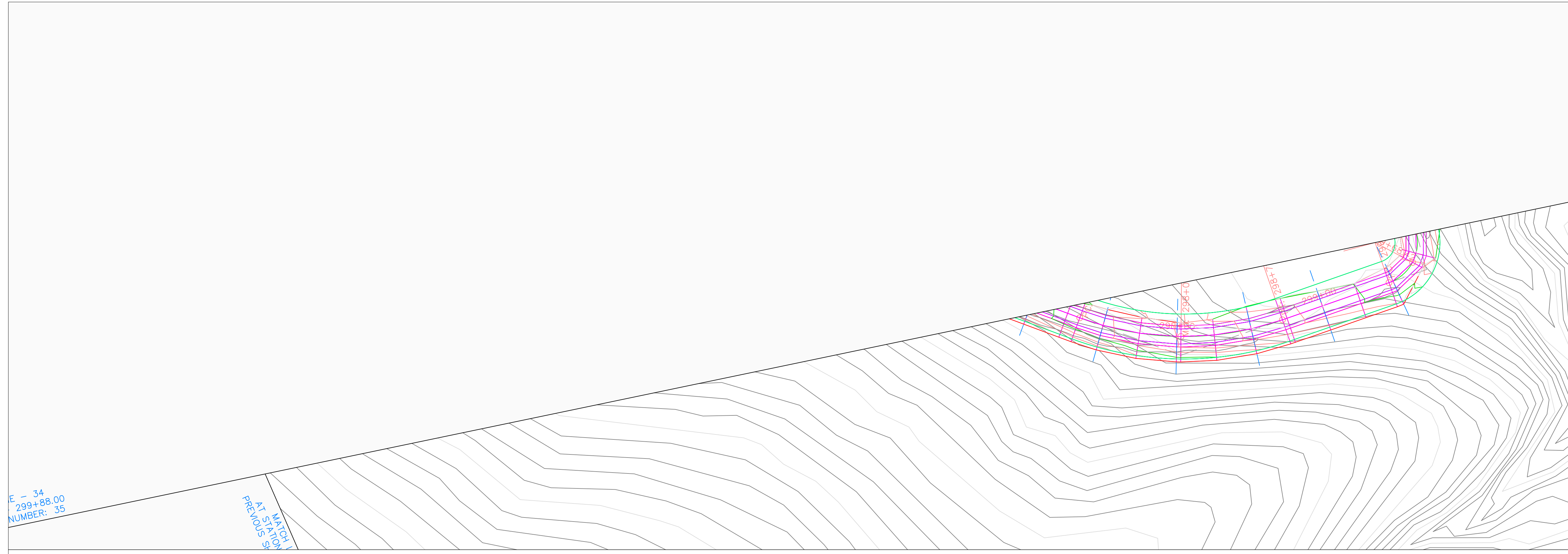


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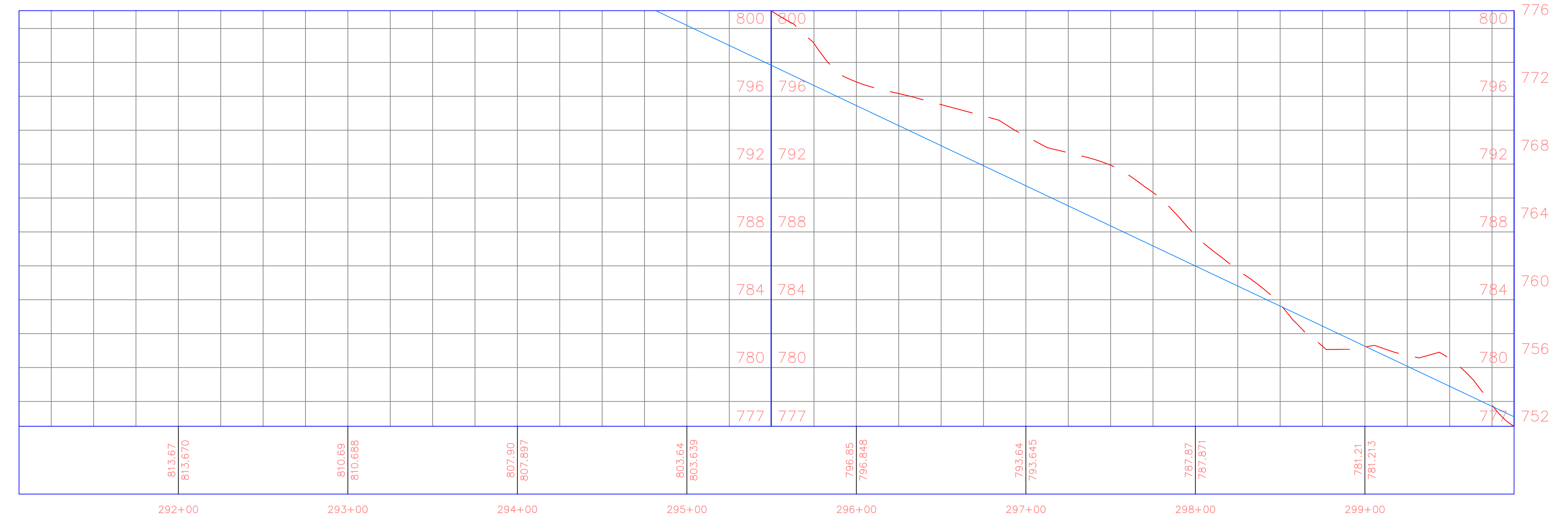
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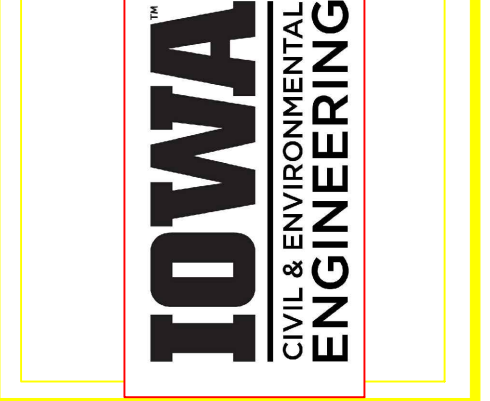
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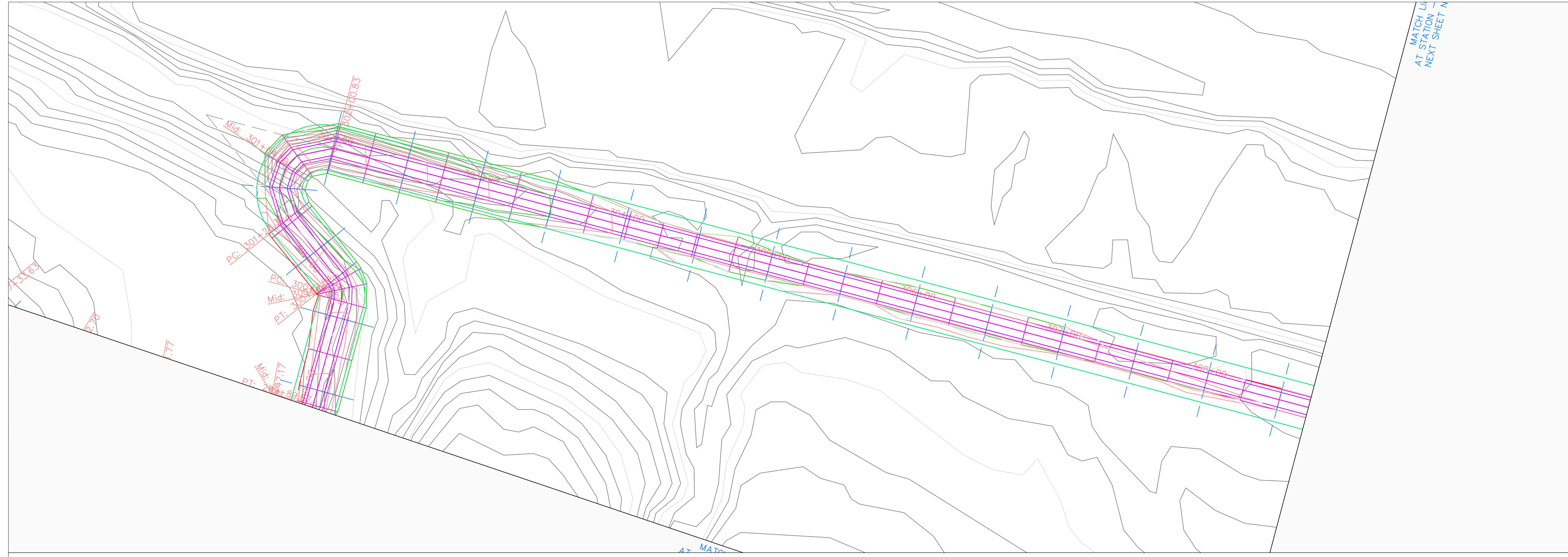


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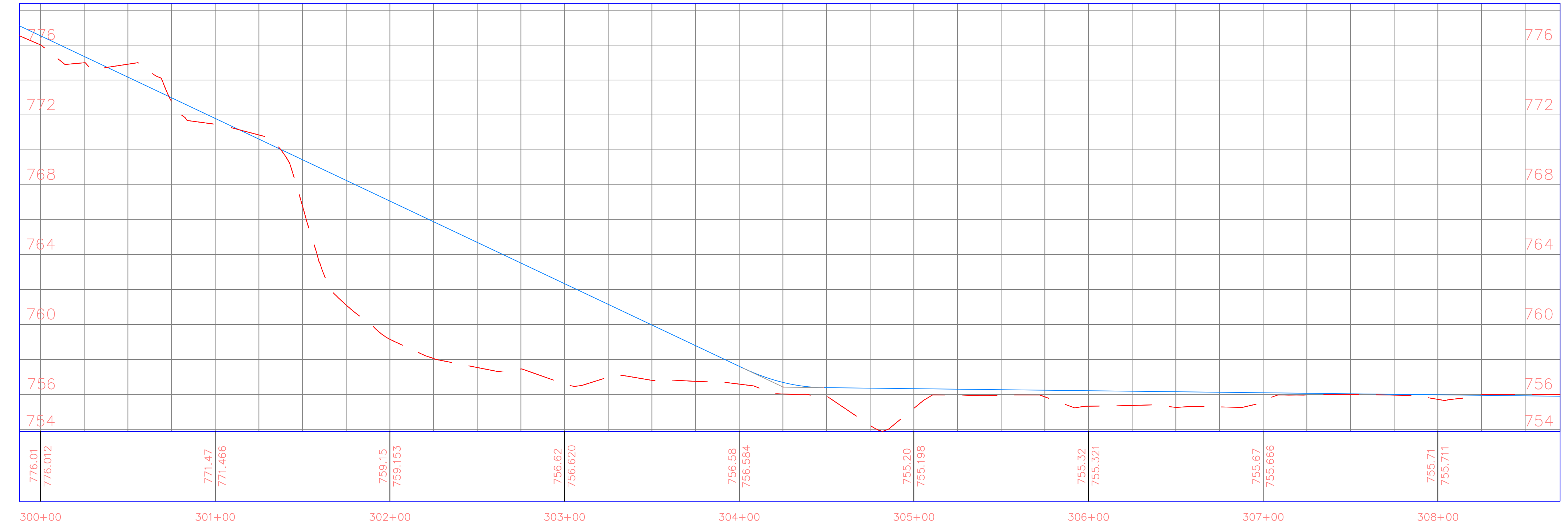
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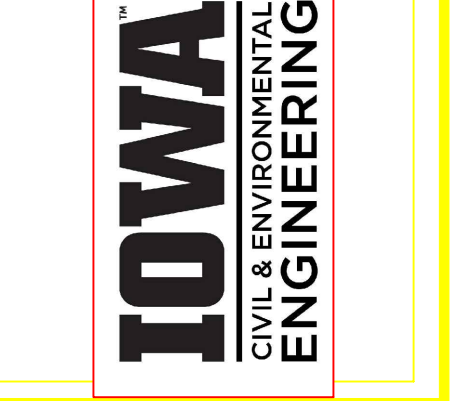


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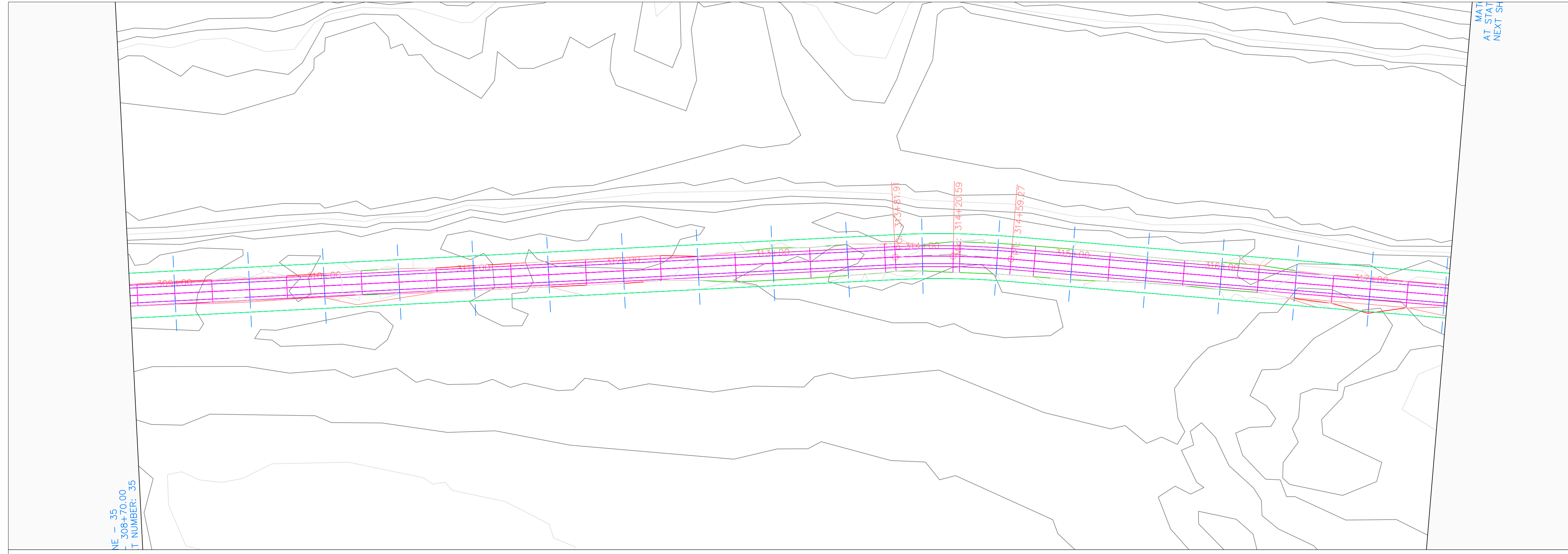
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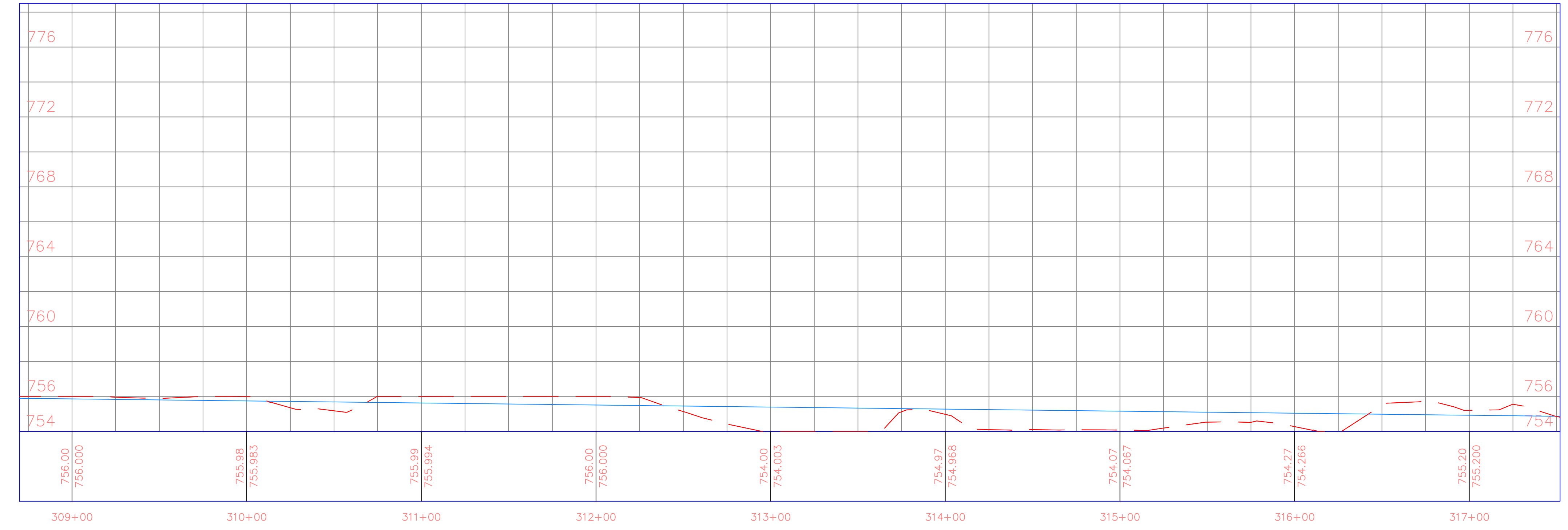
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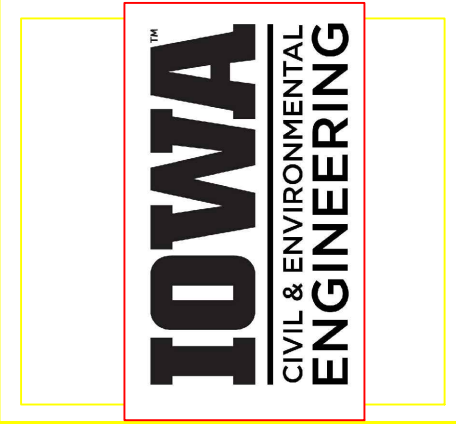


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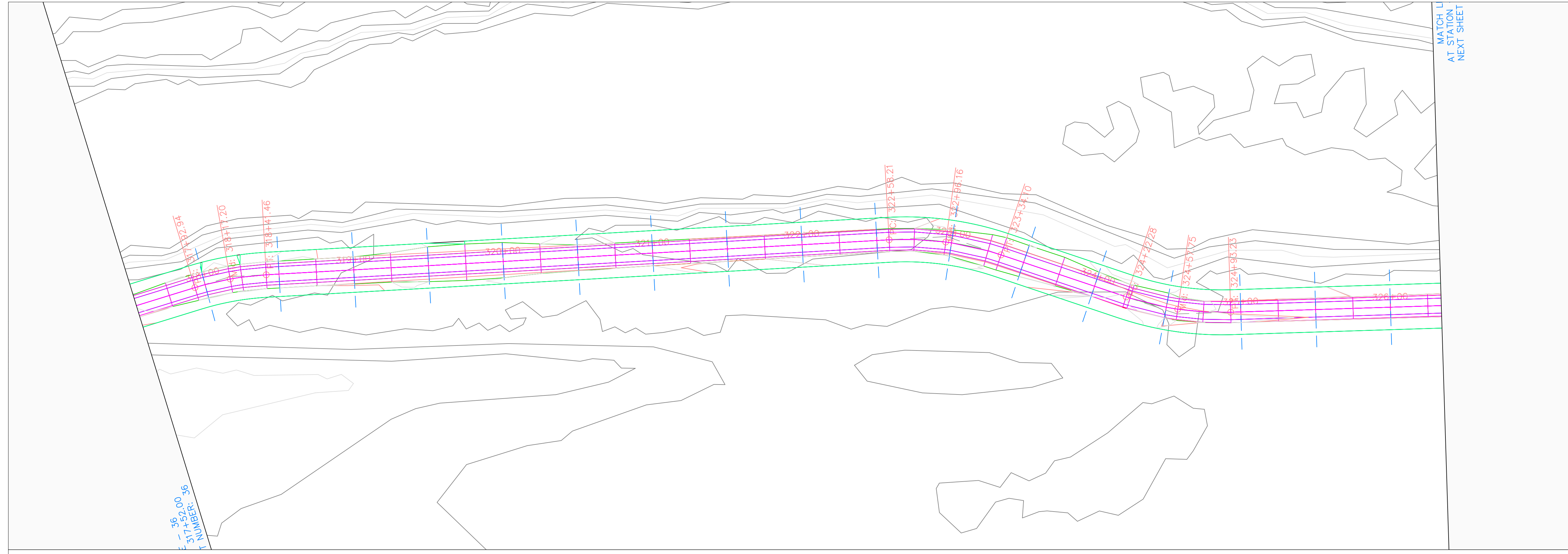
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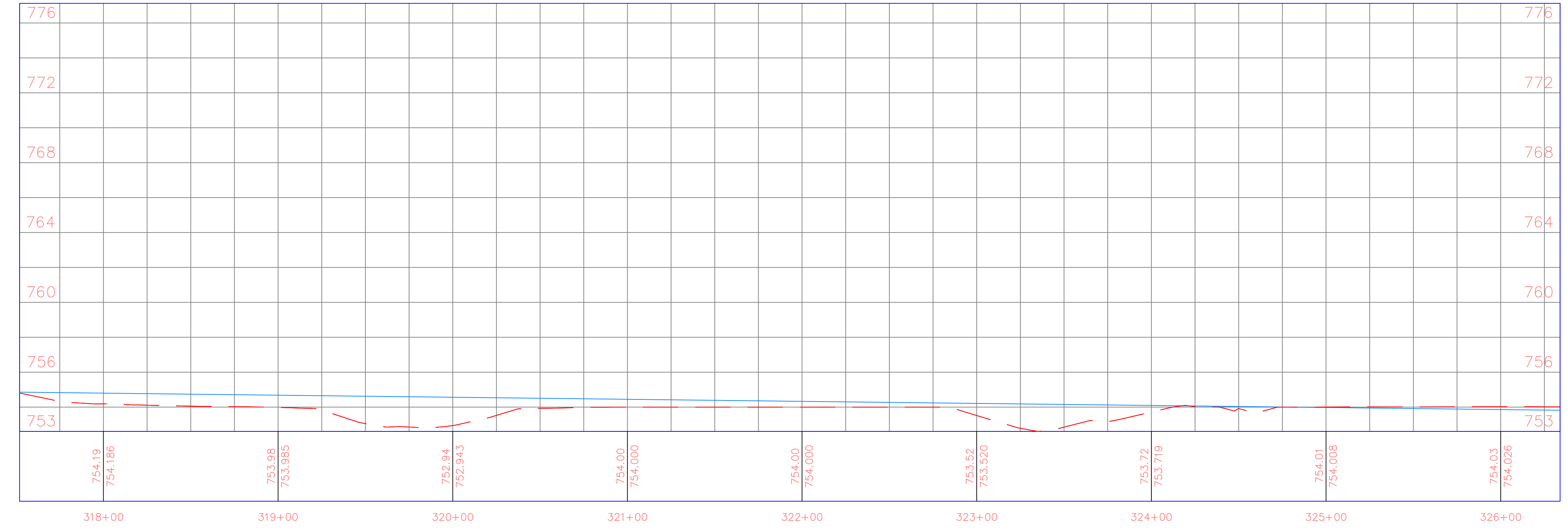
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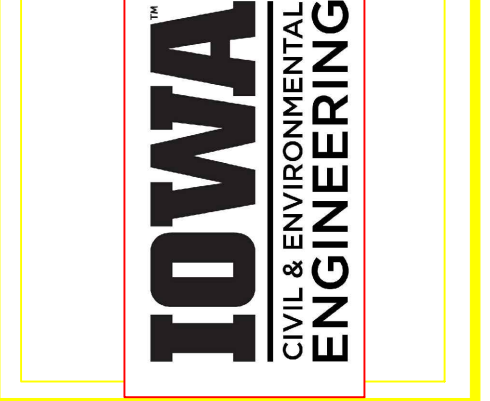


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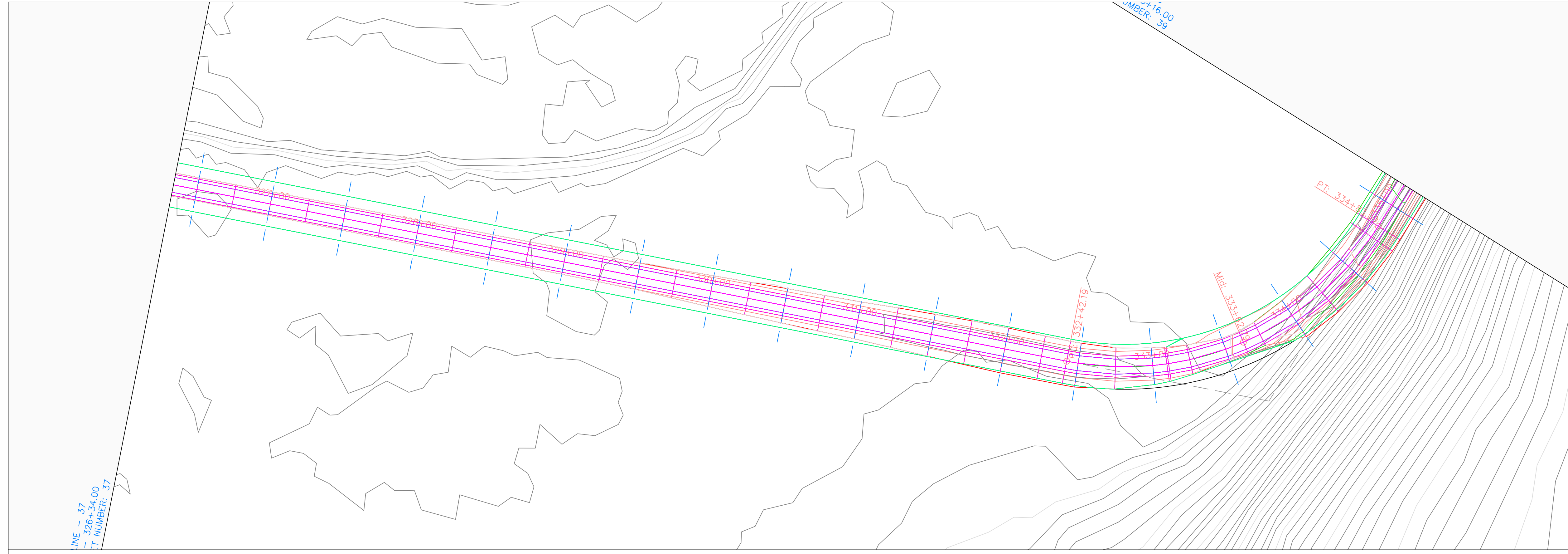
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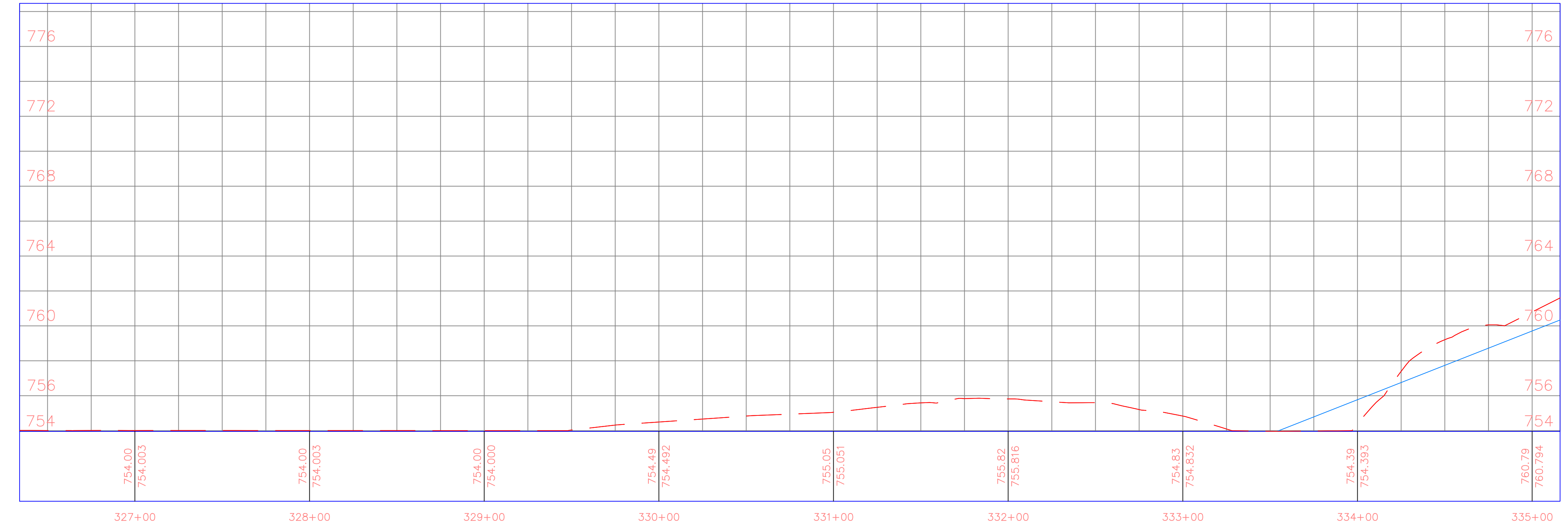
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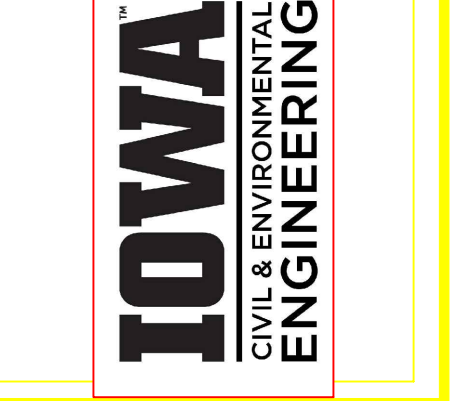


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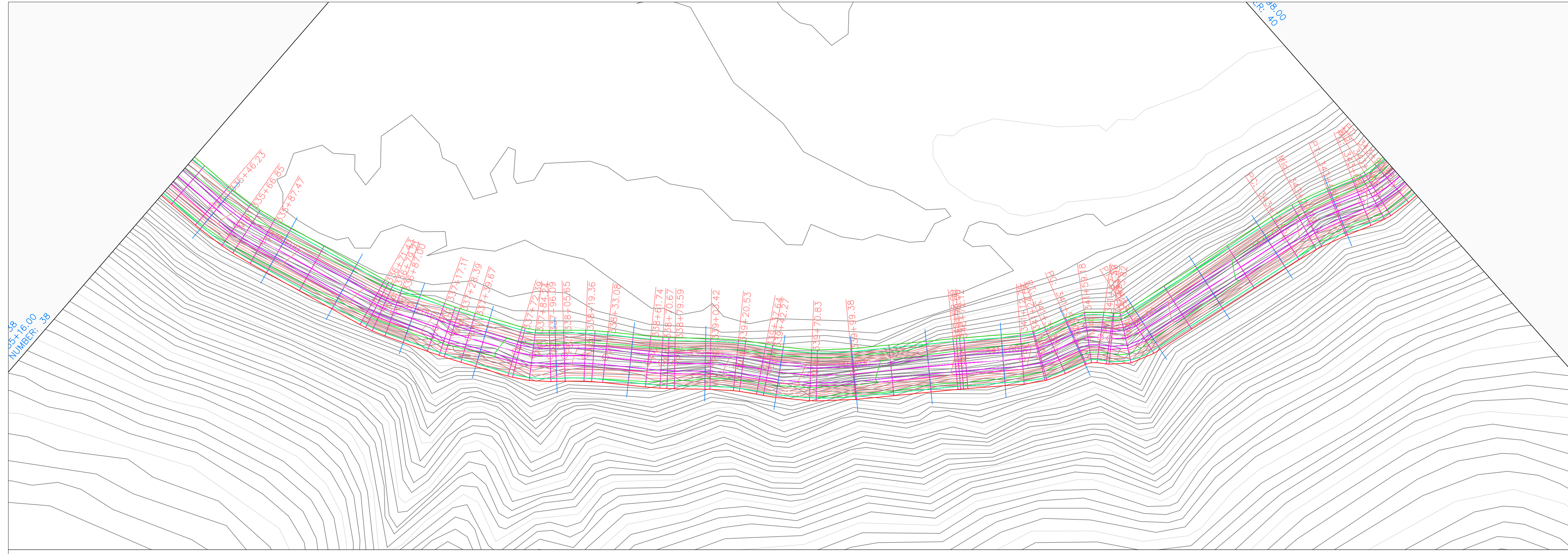


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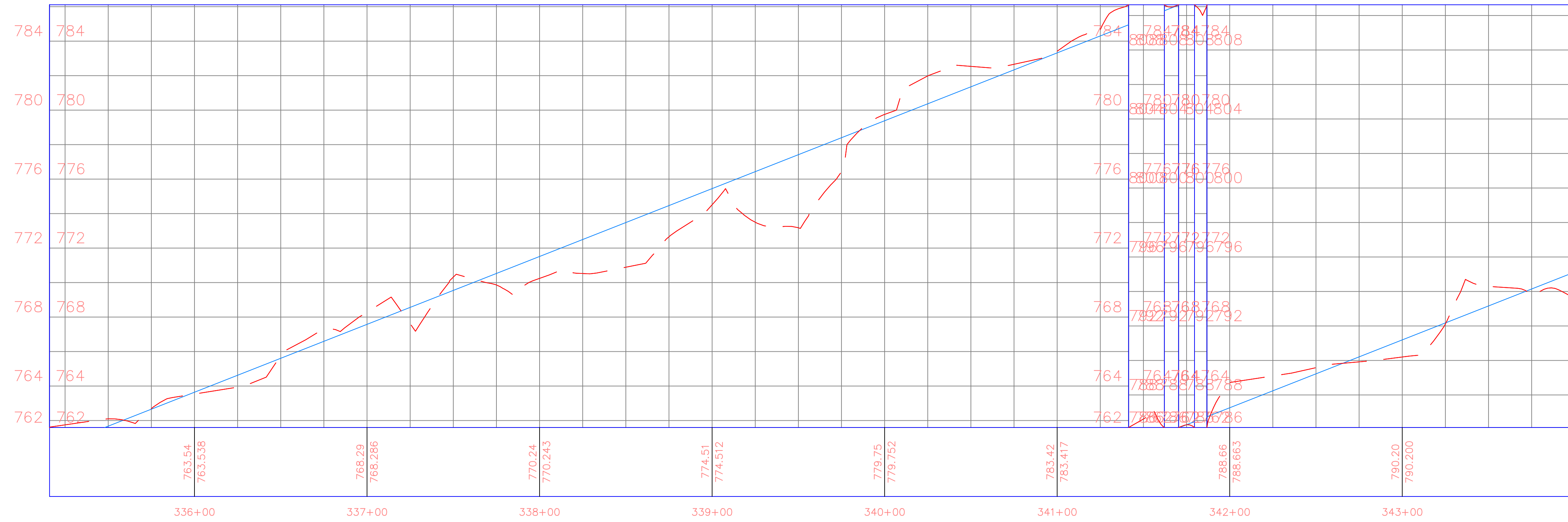
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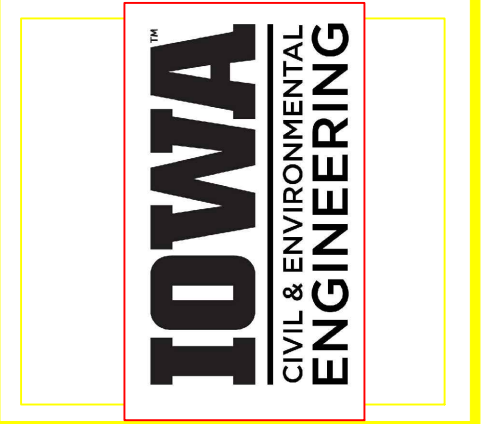
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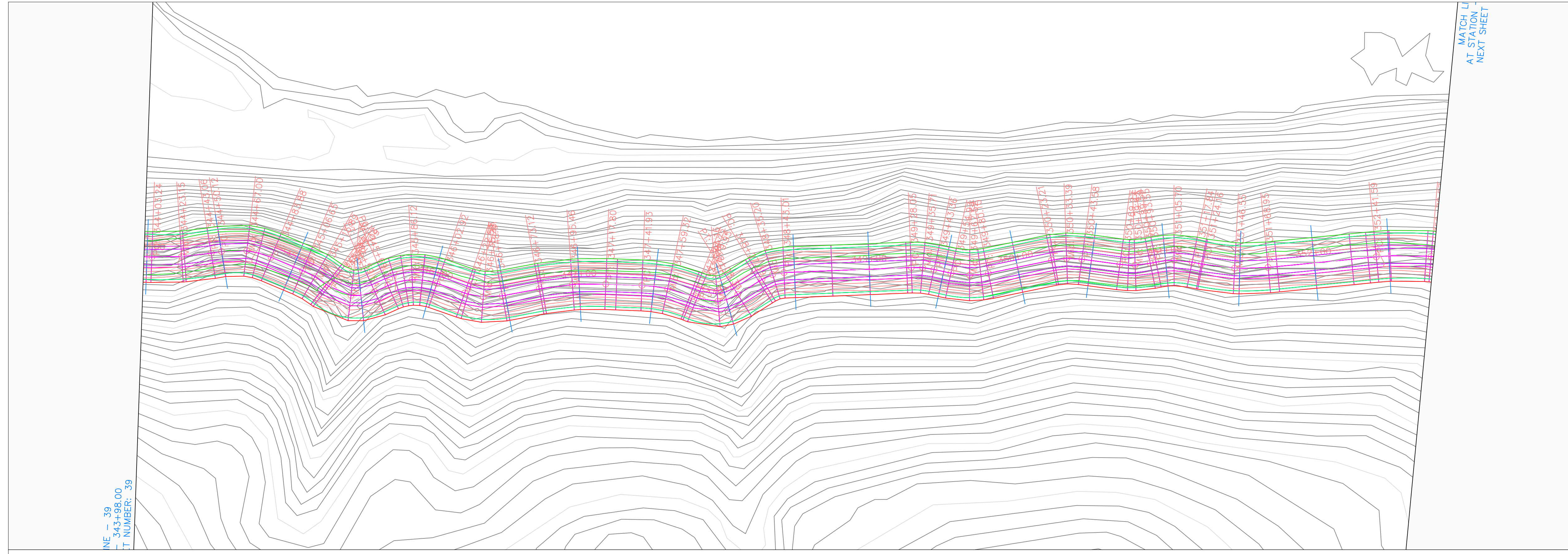


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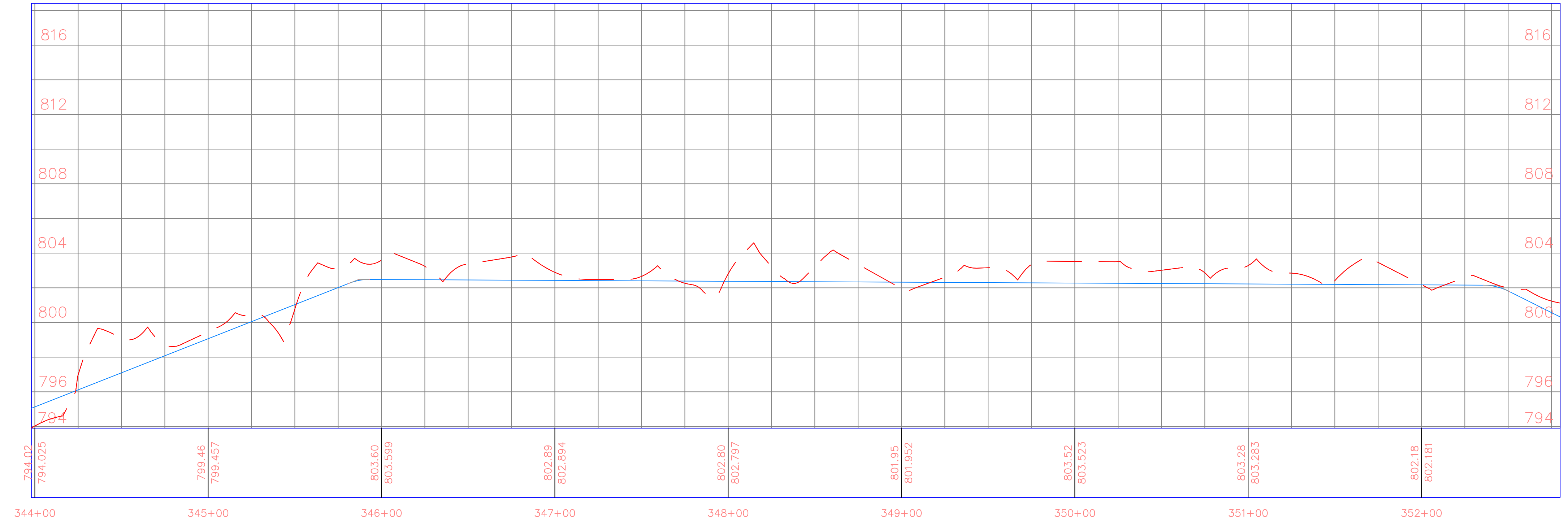
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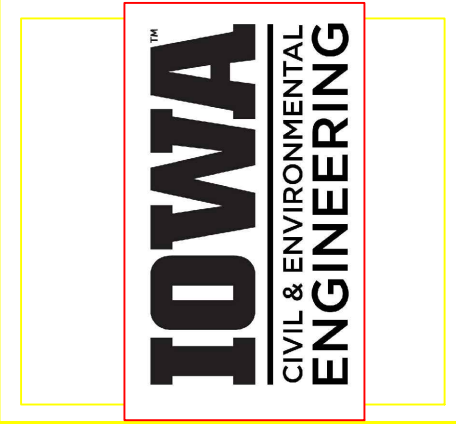
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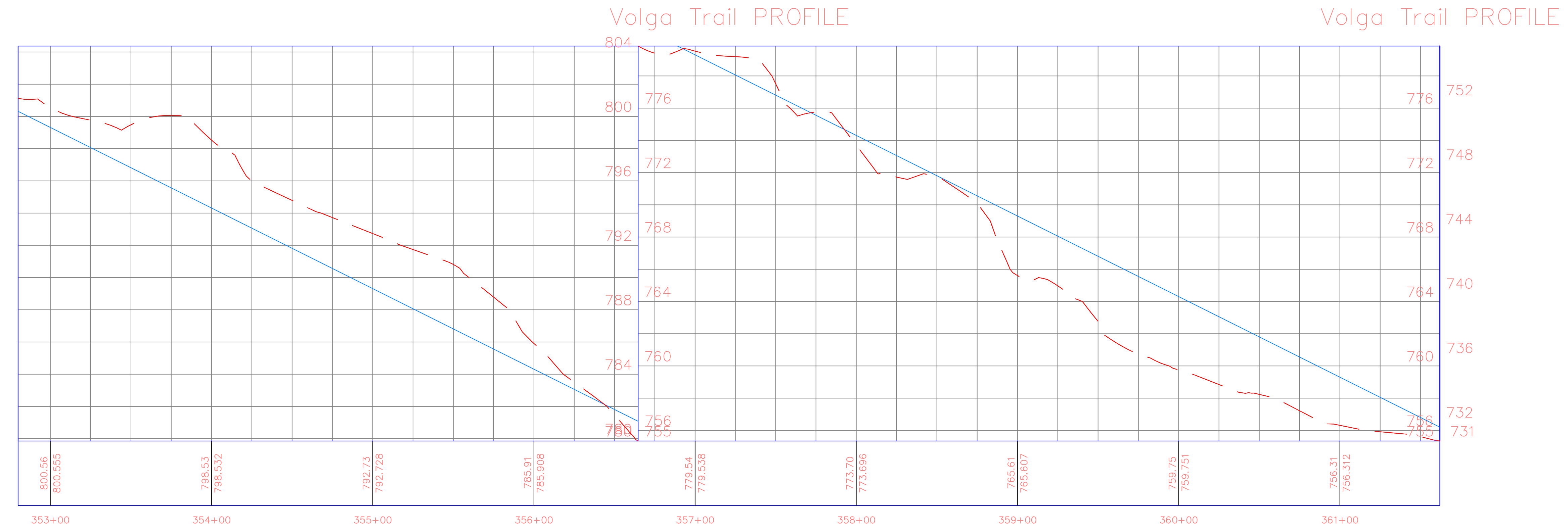
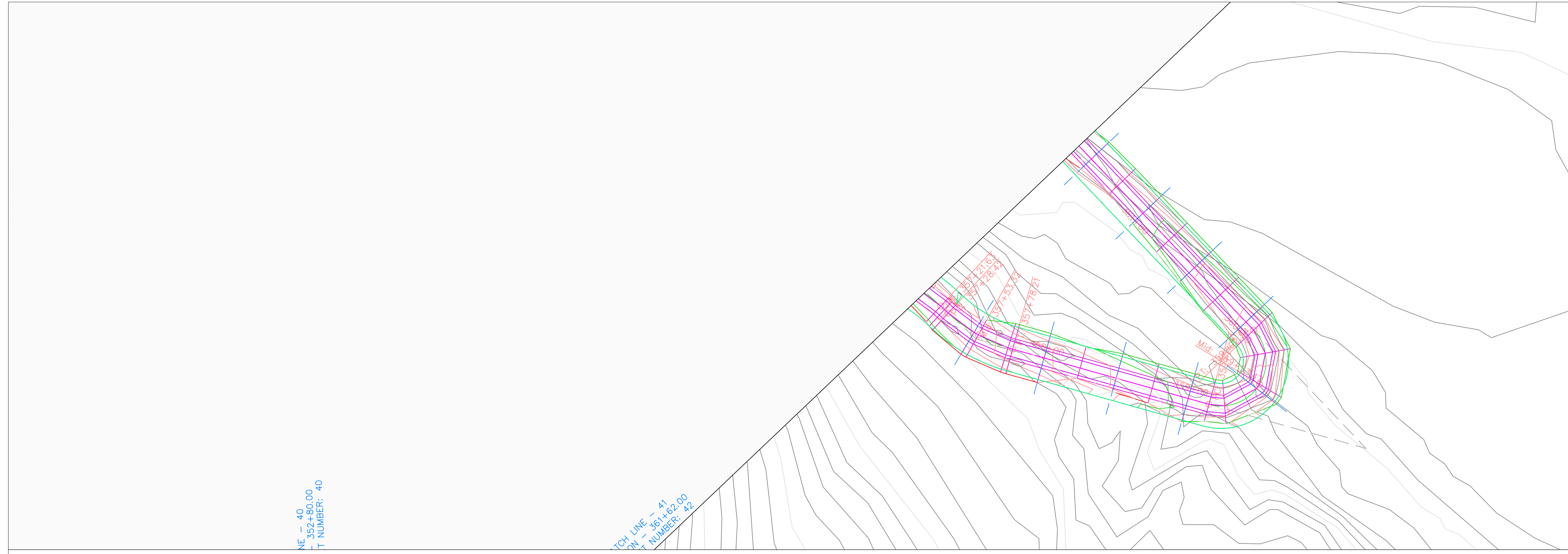


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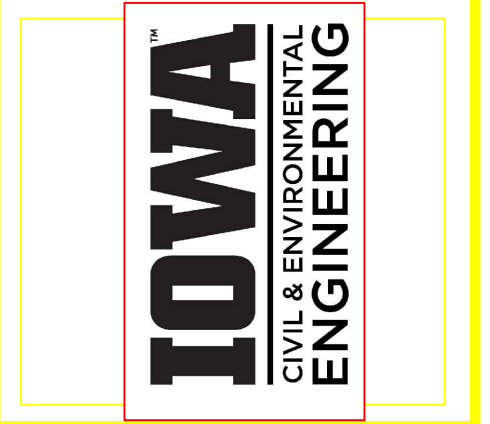
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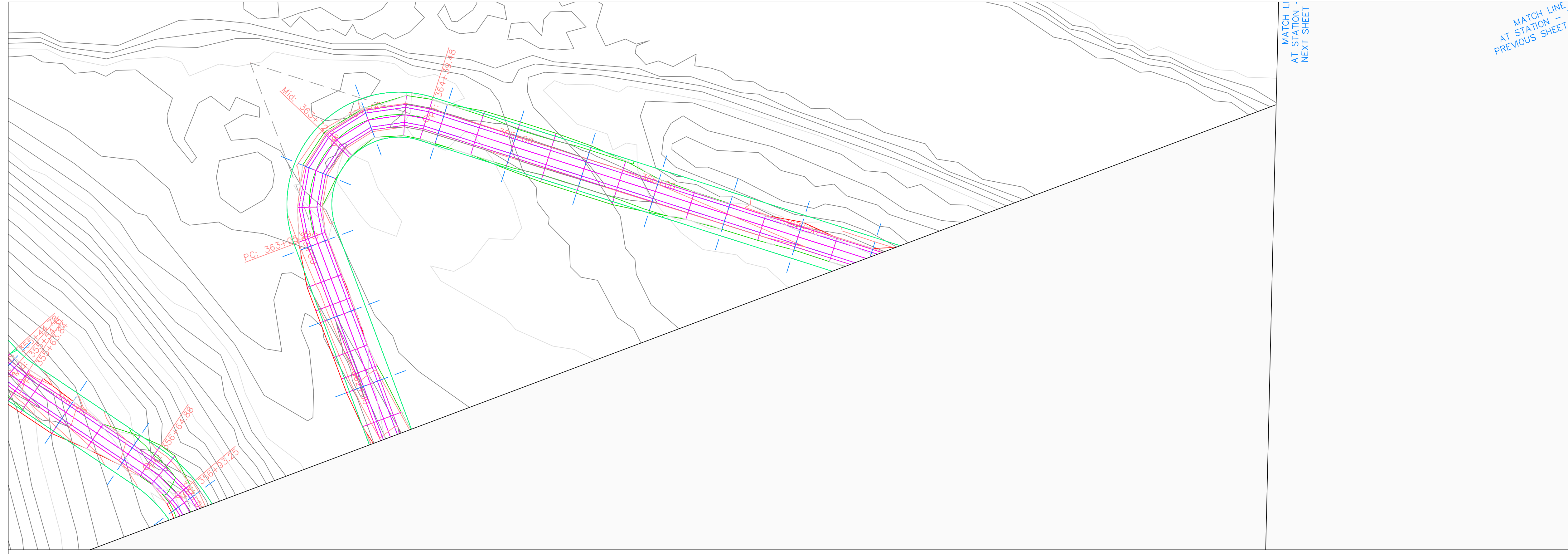


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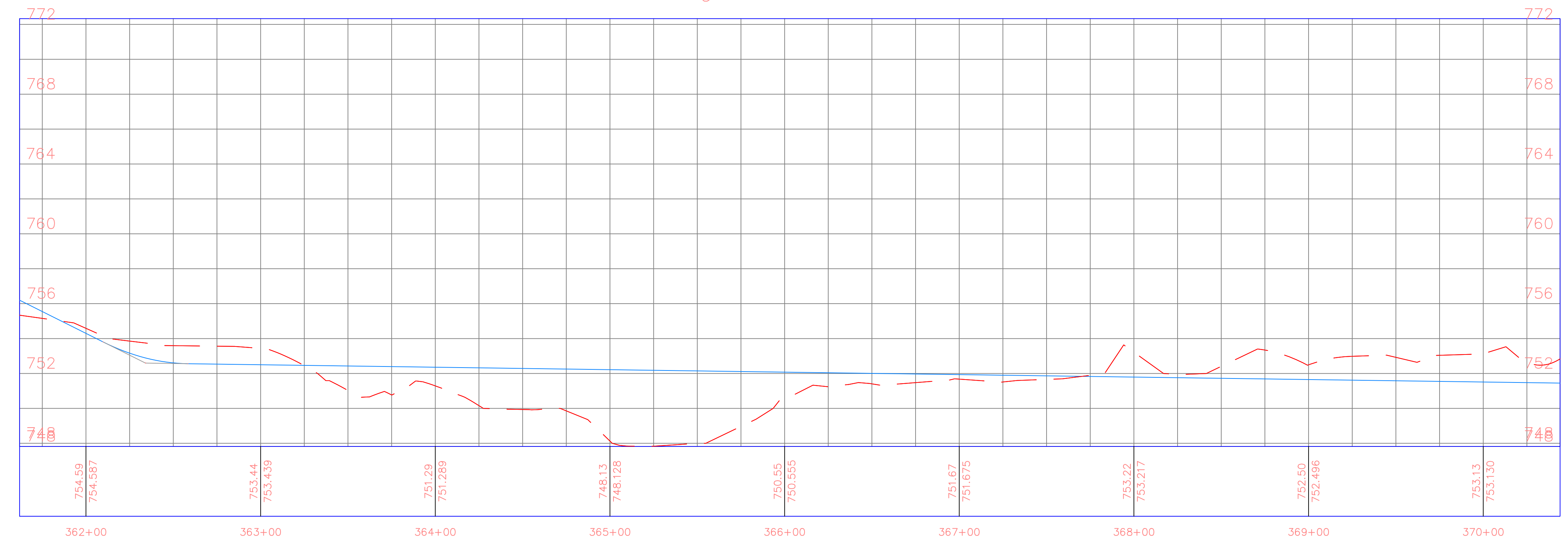
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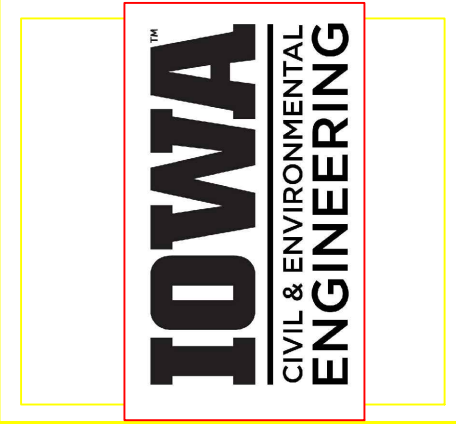


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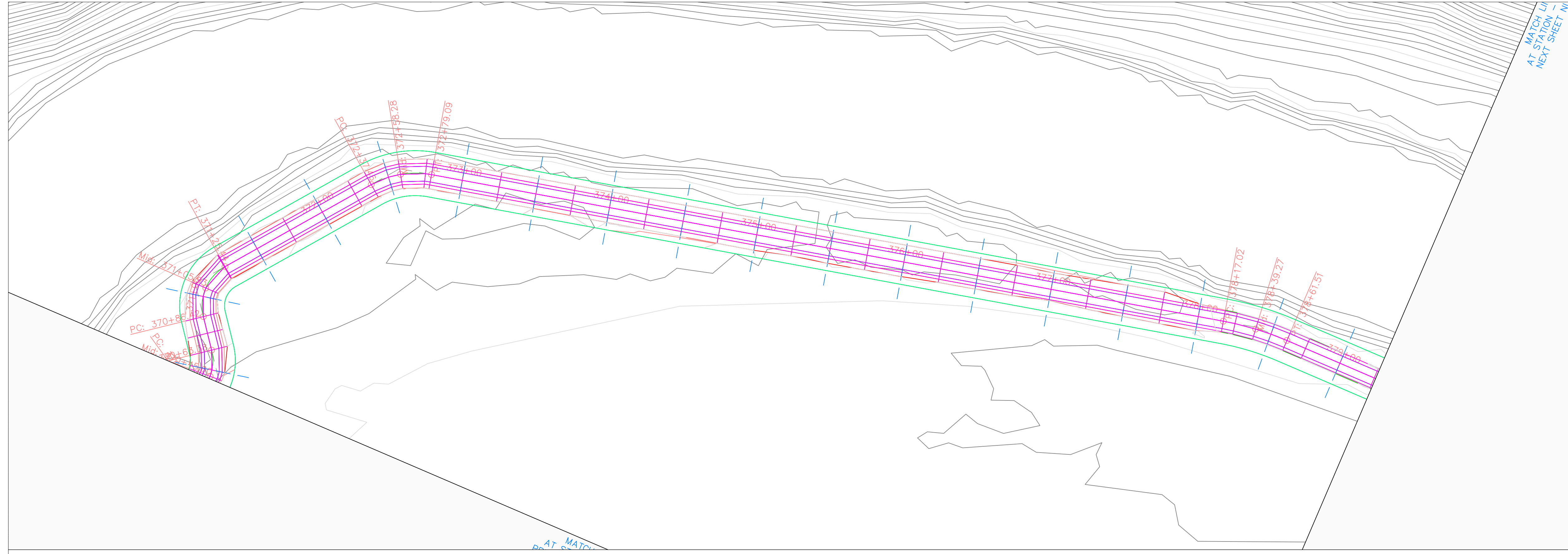


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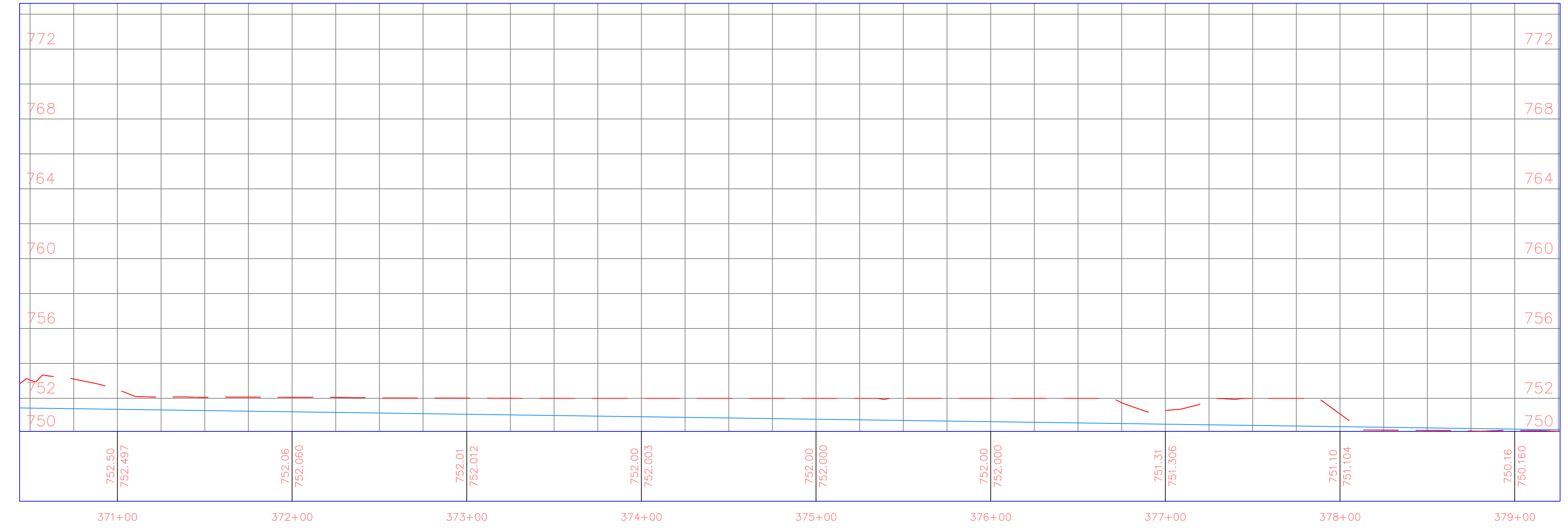
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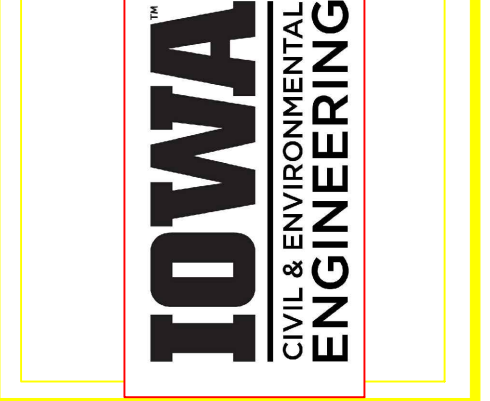


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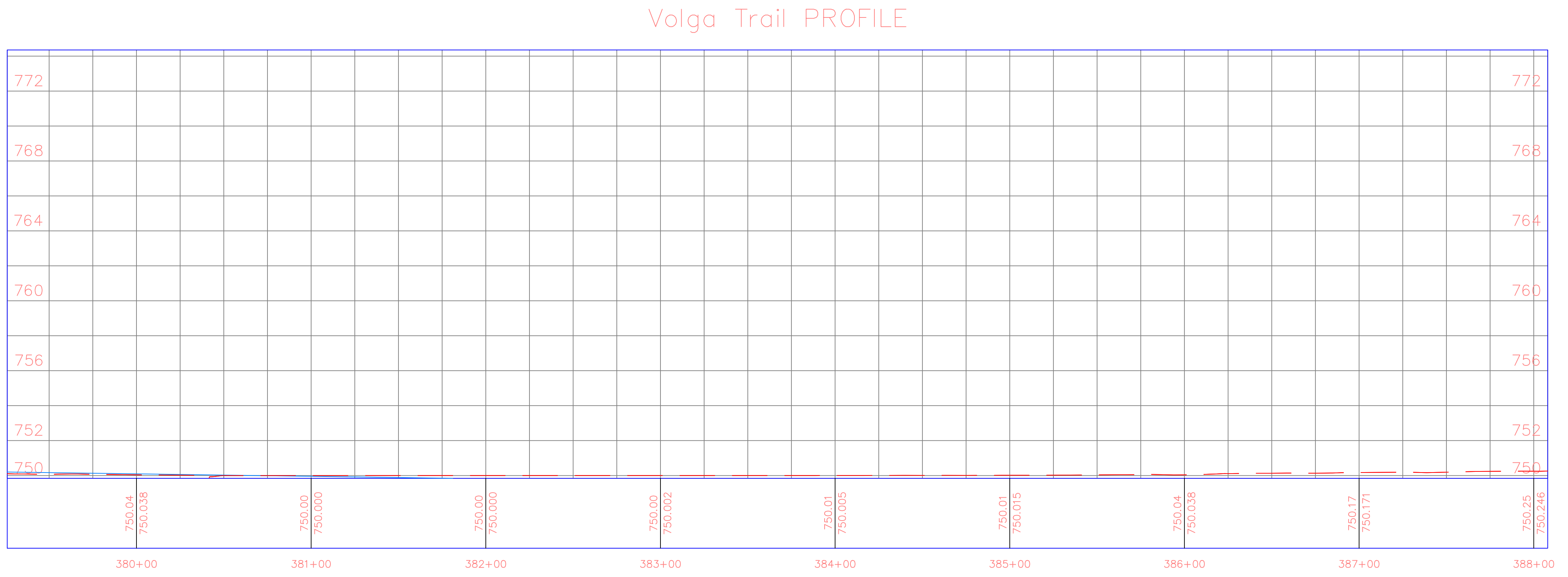
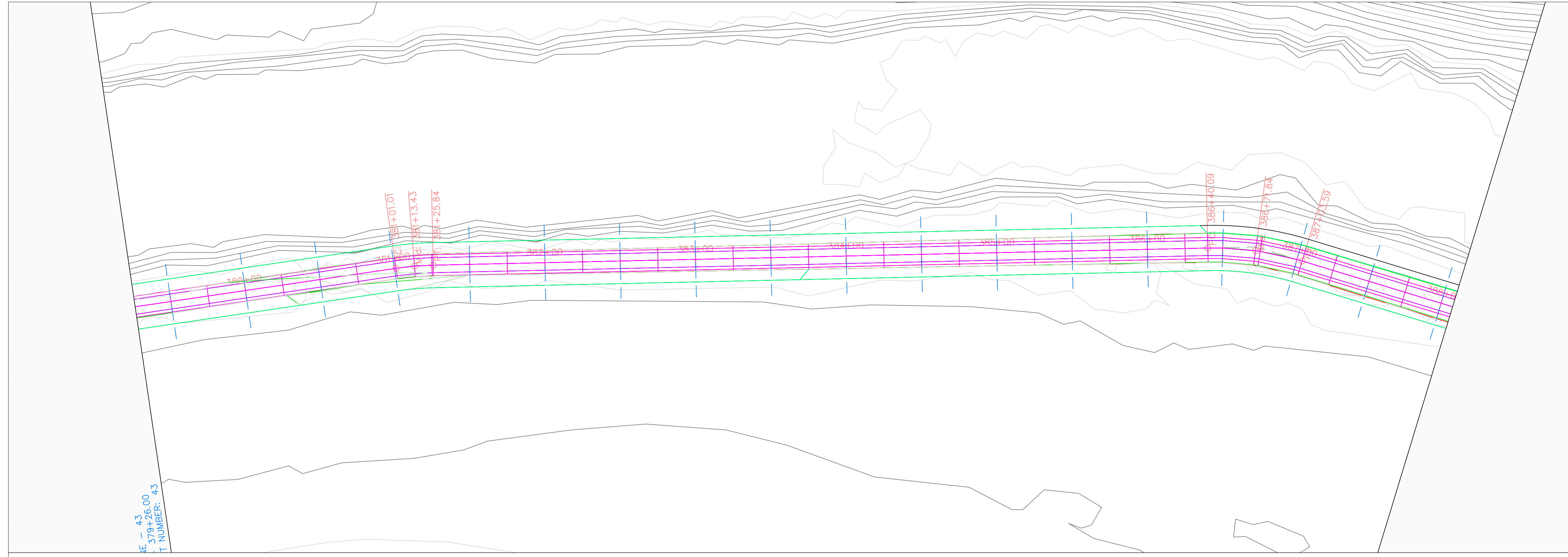
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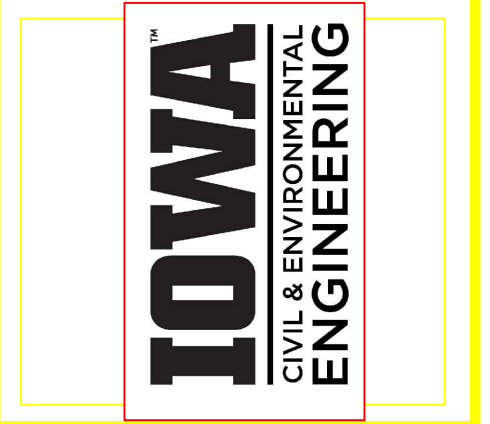
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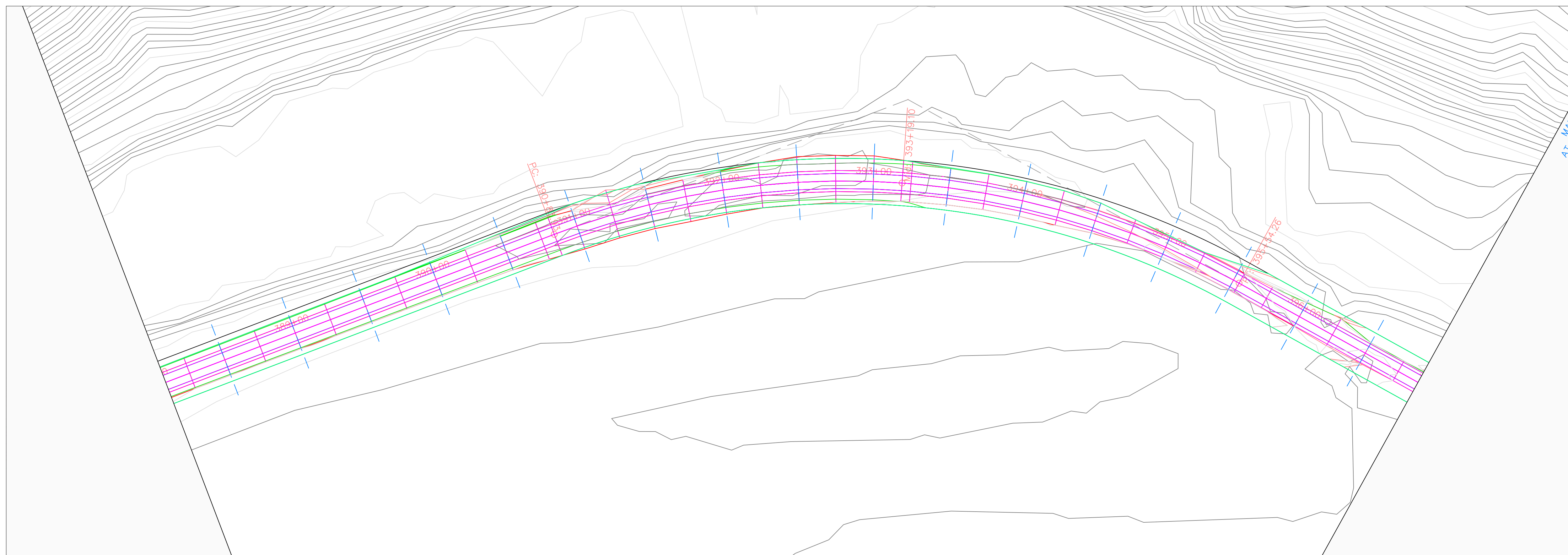
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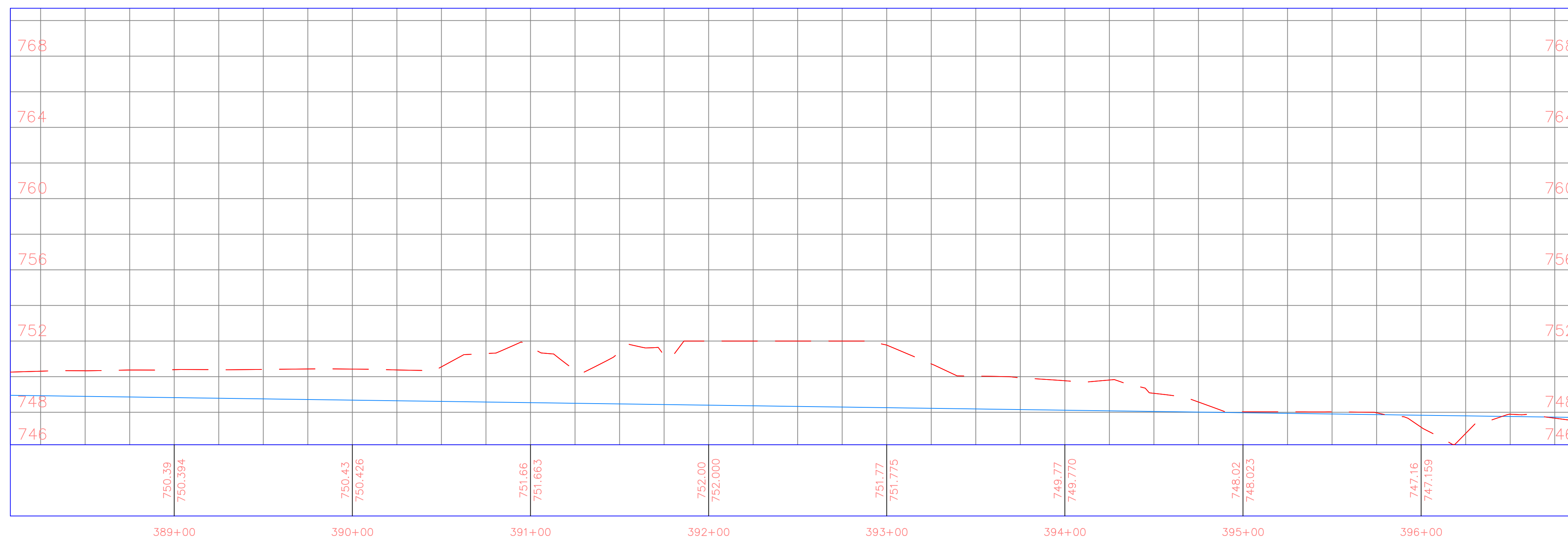
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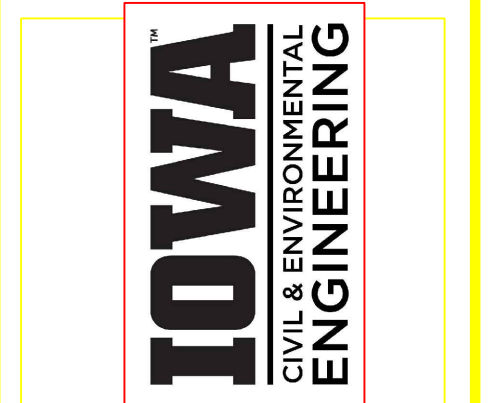


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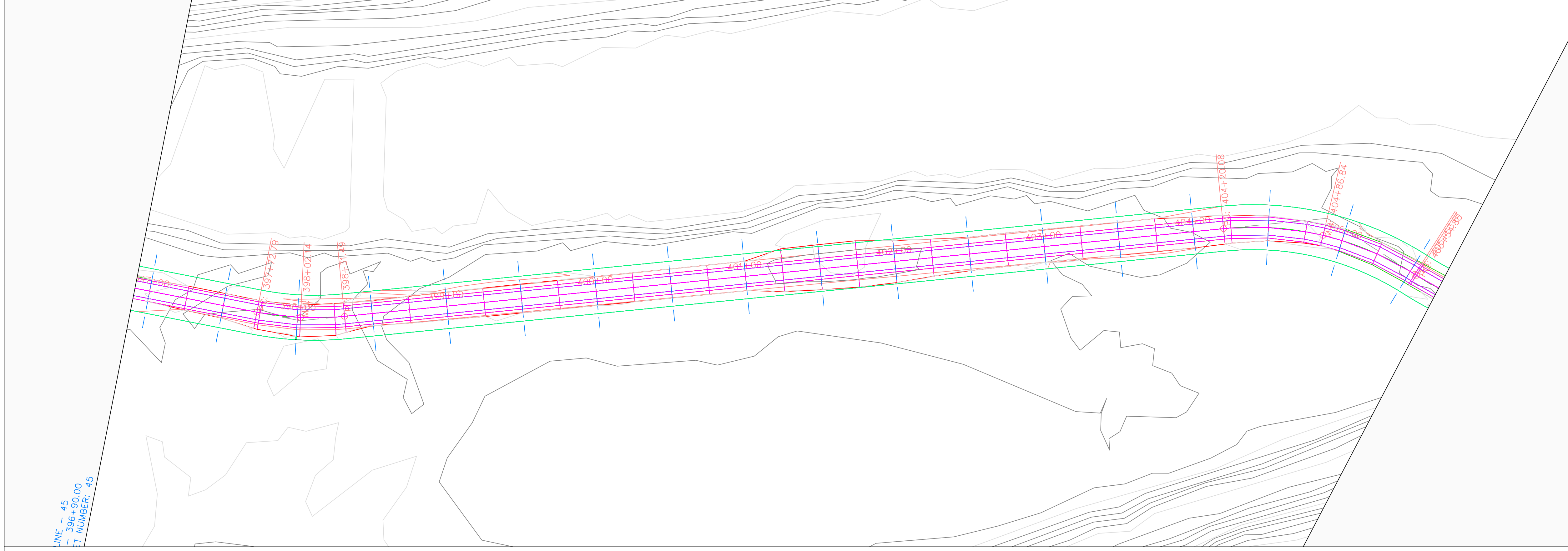


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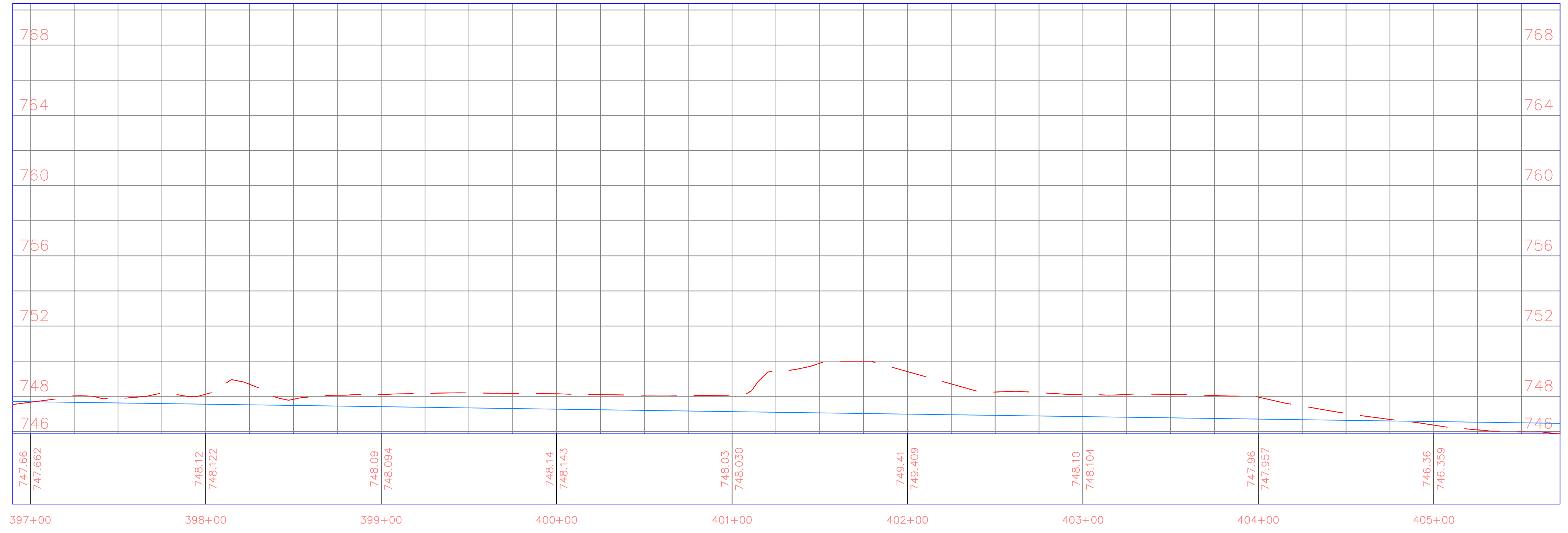
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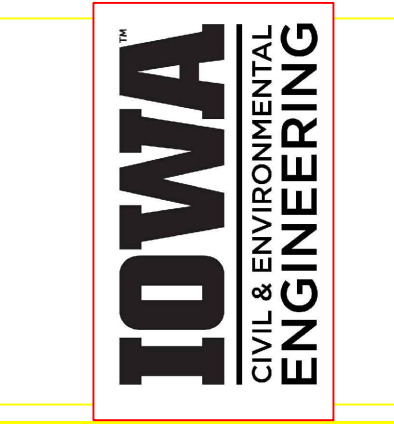
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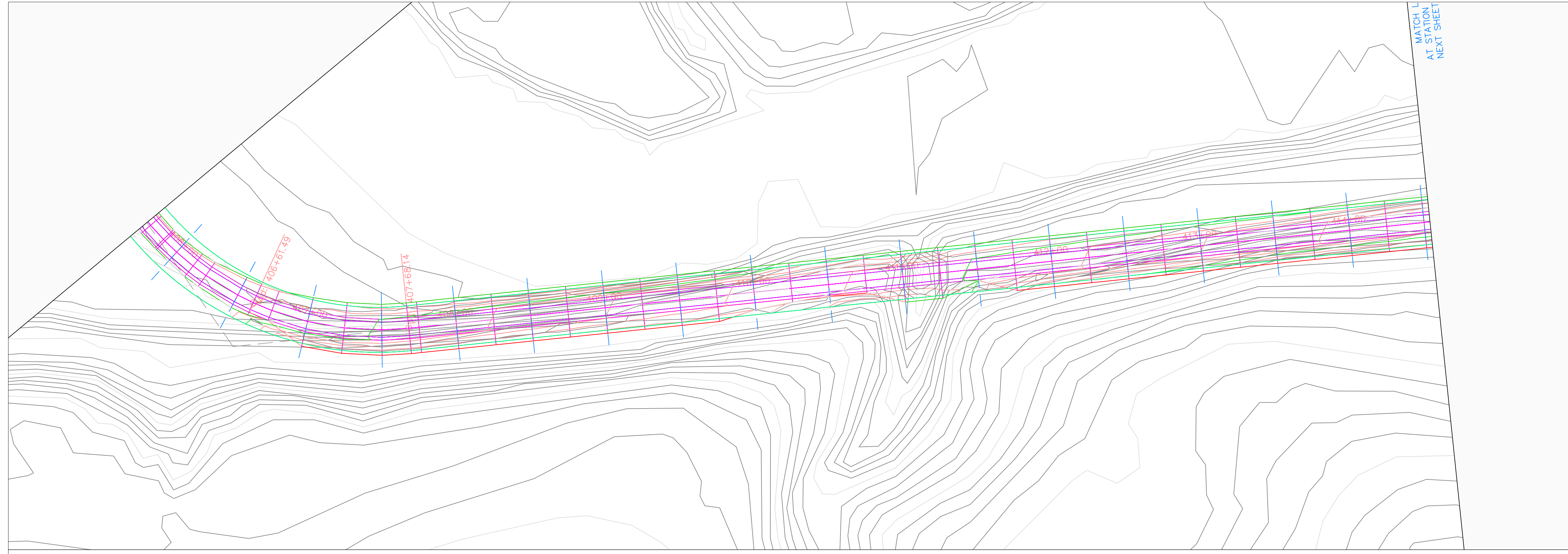


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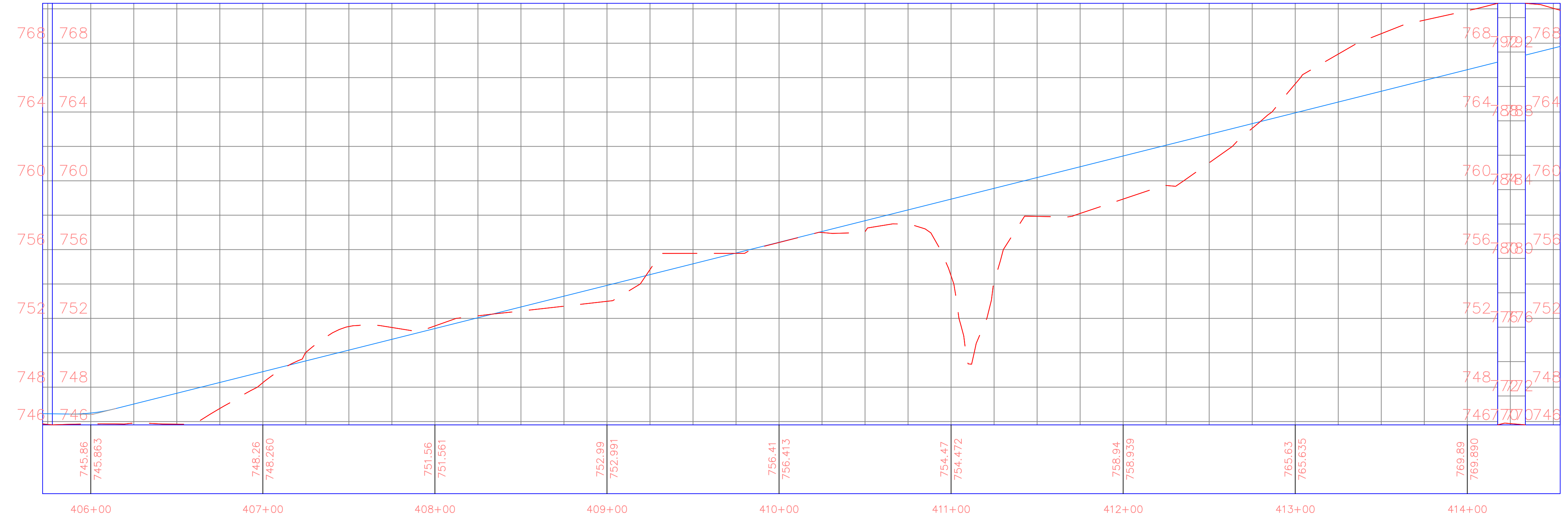
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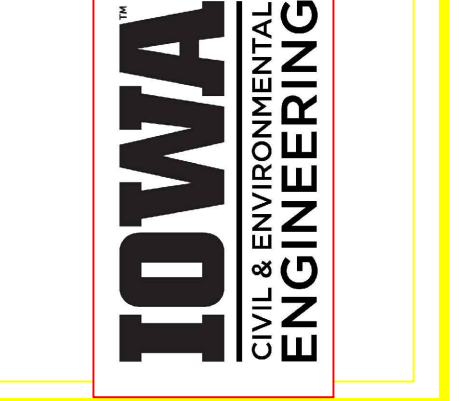
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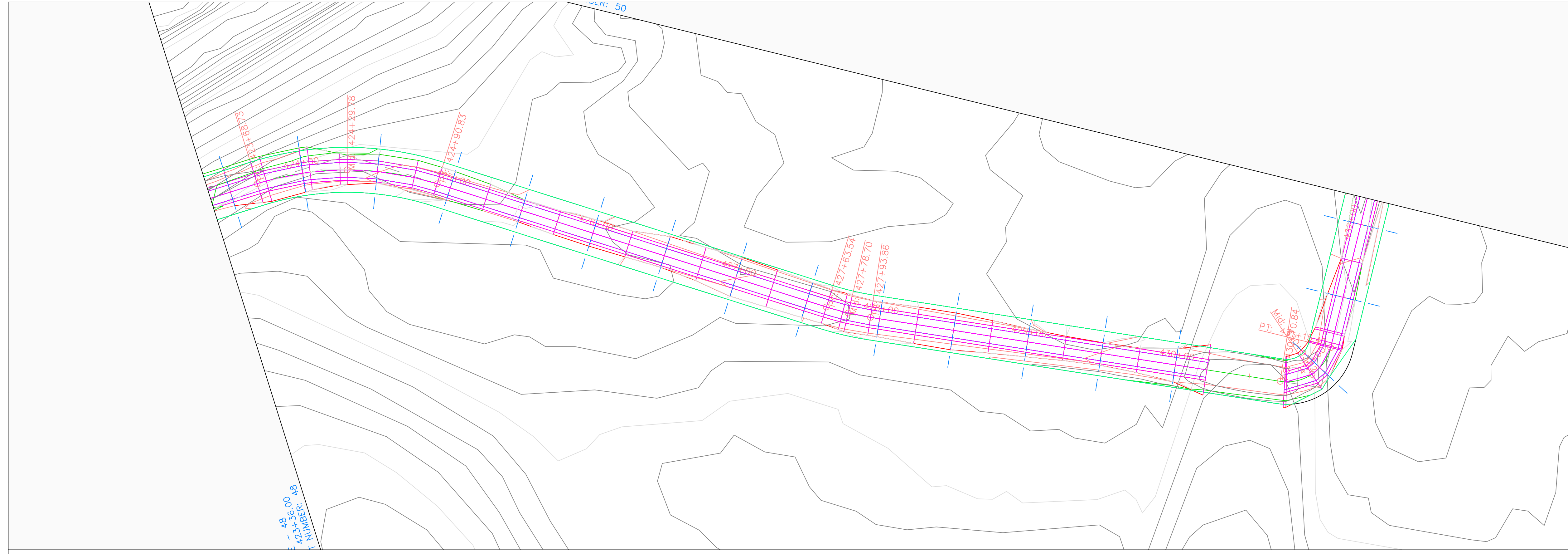


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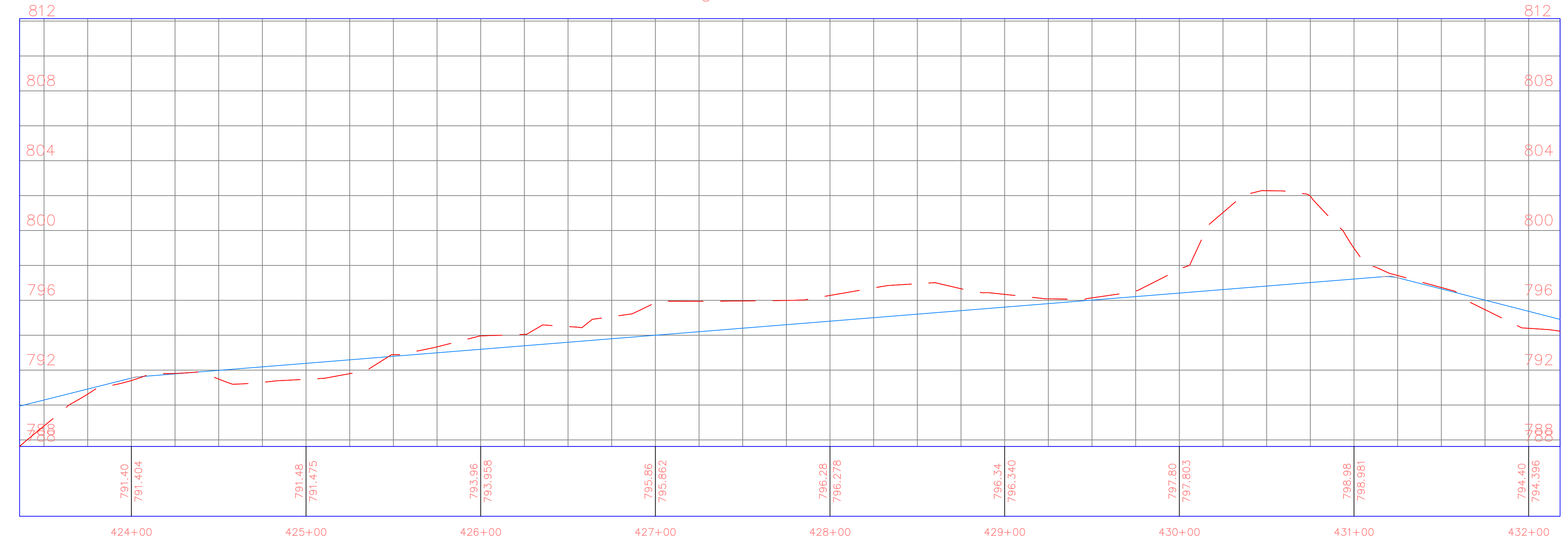
Volga Trail

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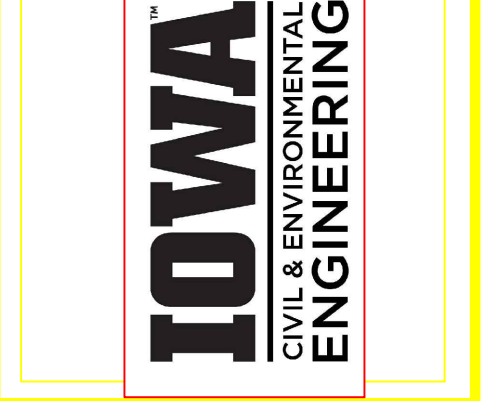


Volga Trail PROFILE



PROJECT:	CEE: 4850
DATE :	4/17/2020
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REVISION:	

THE UNIVERSITY OF IOWA
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 4105 SEAMANS CENTER FOR THE
 ENGINEERING ARTS AND SCIENCES
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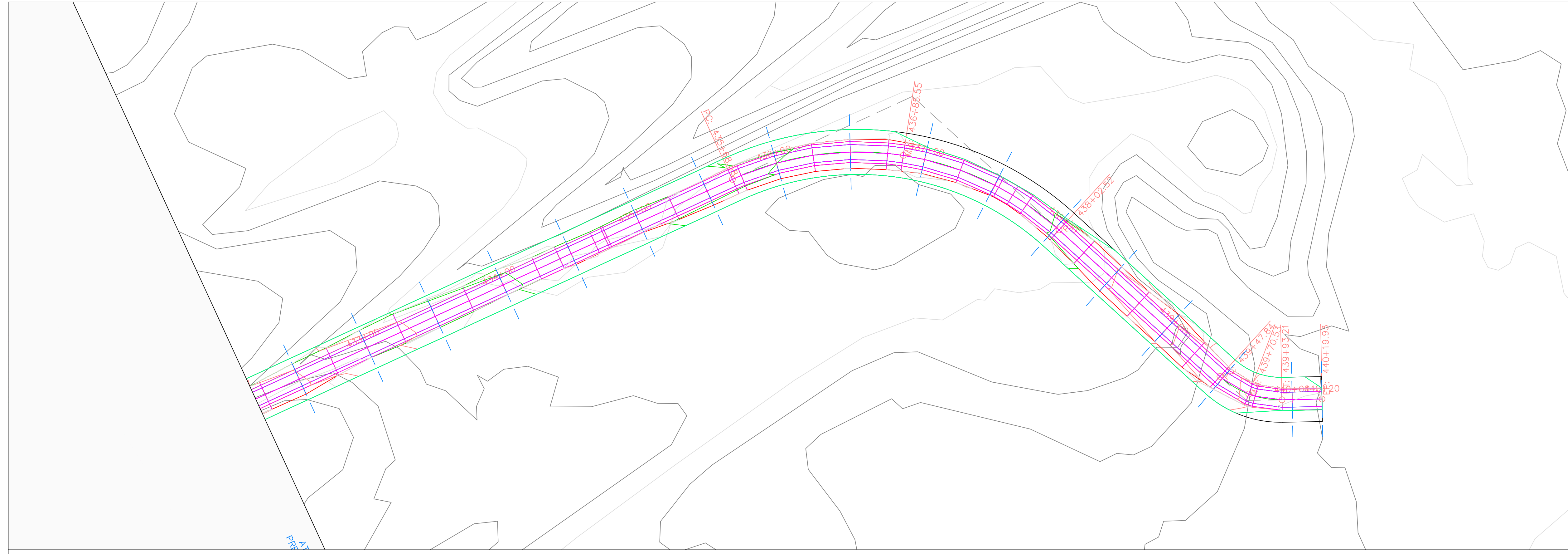


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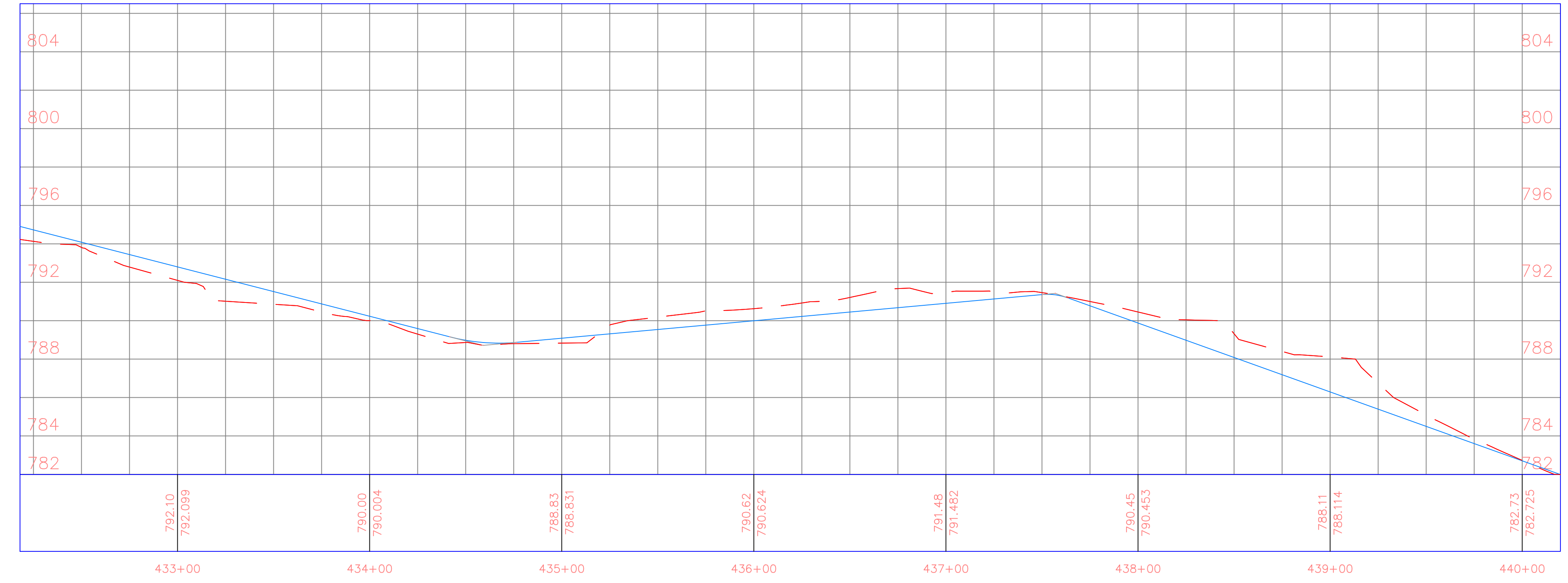
Volga Trail

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XX

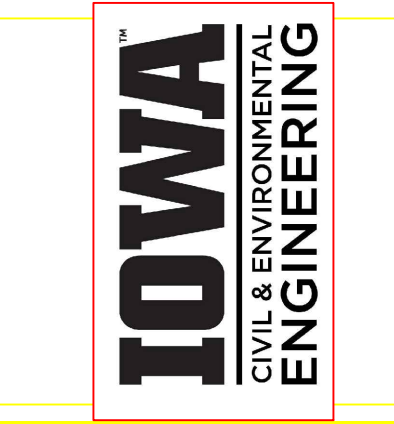


Volga Trail PROFILE



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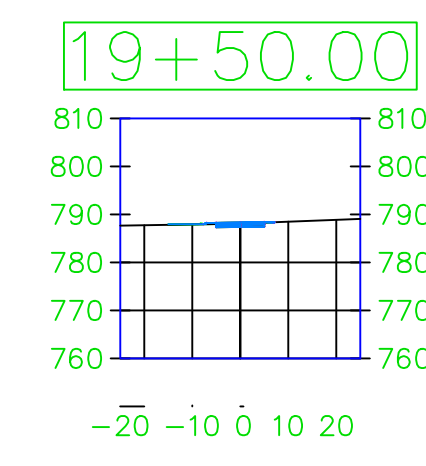
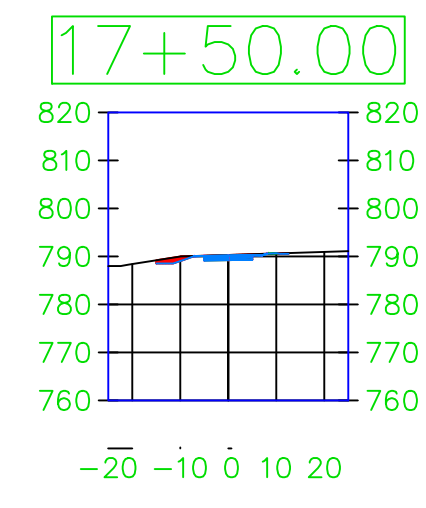
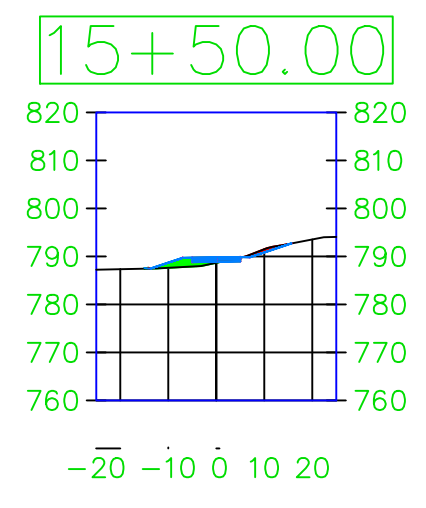
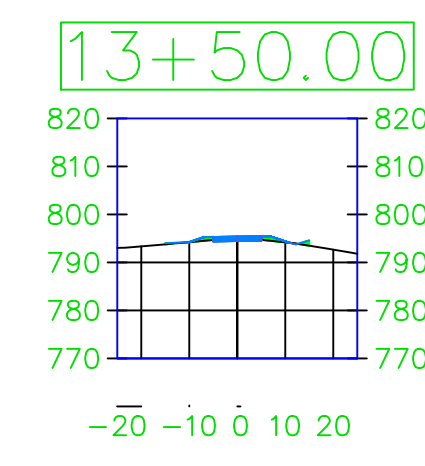
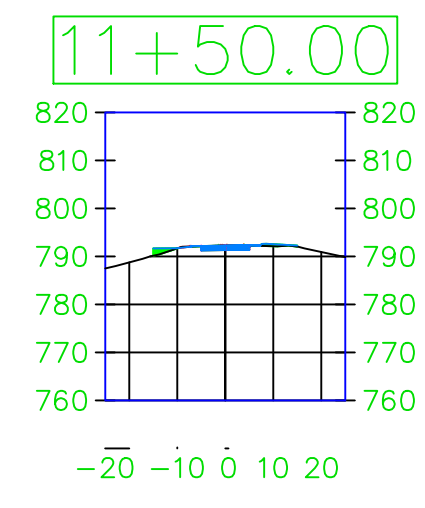
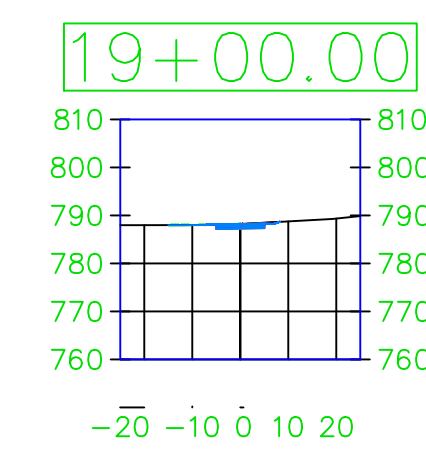
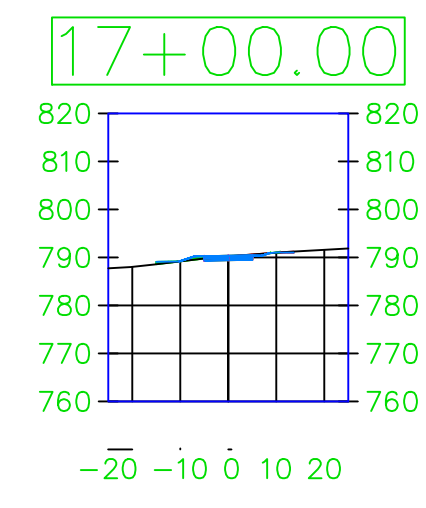
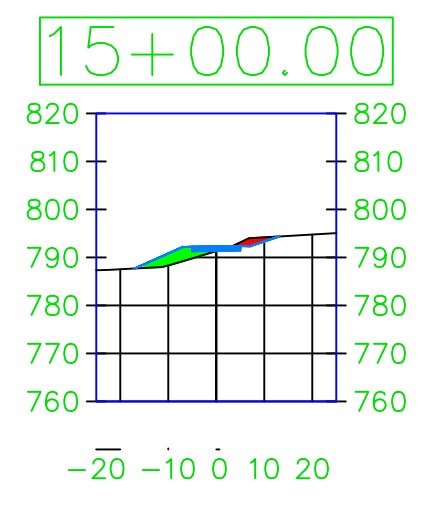
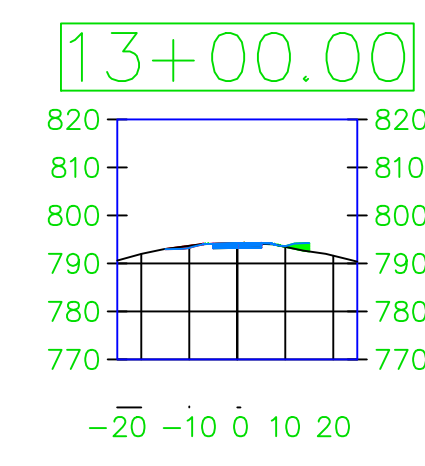
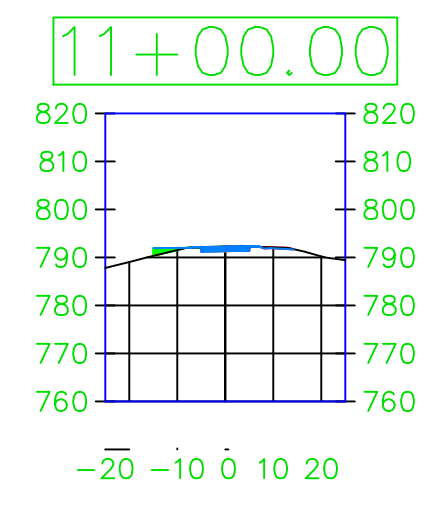
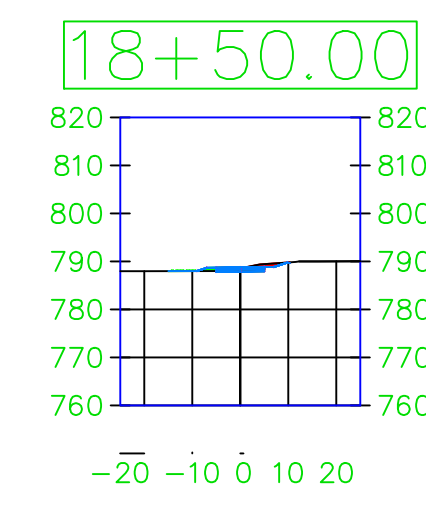
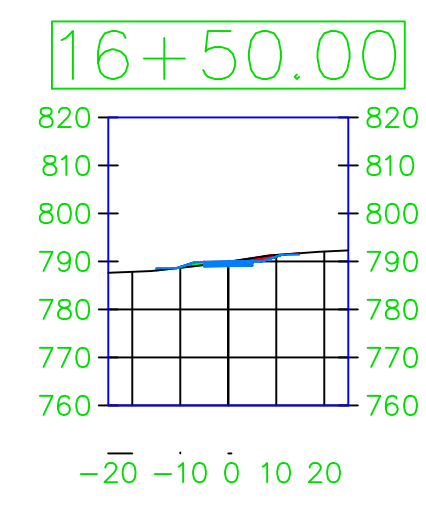
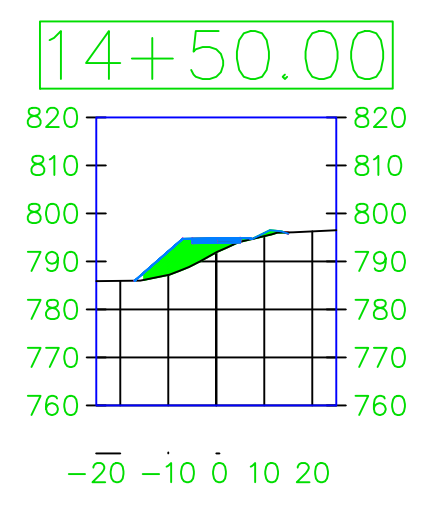
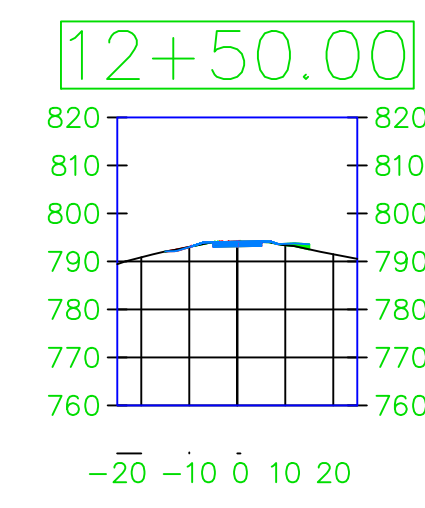
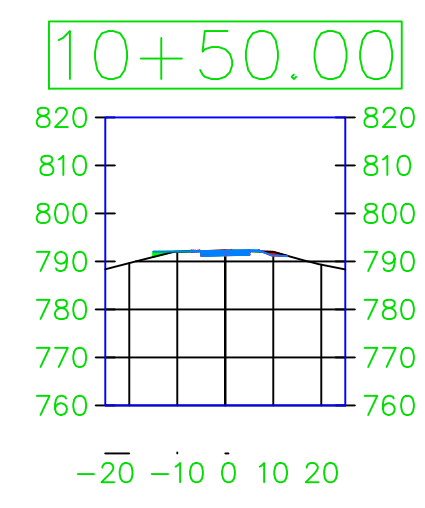
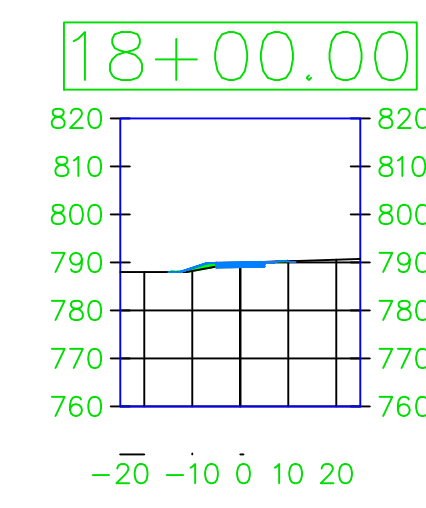
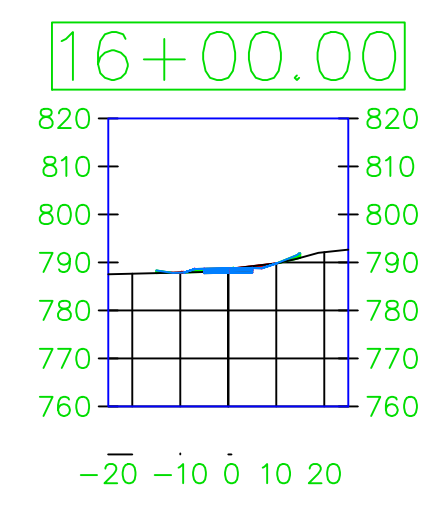
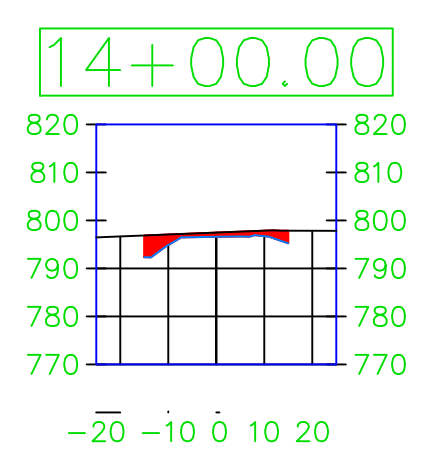
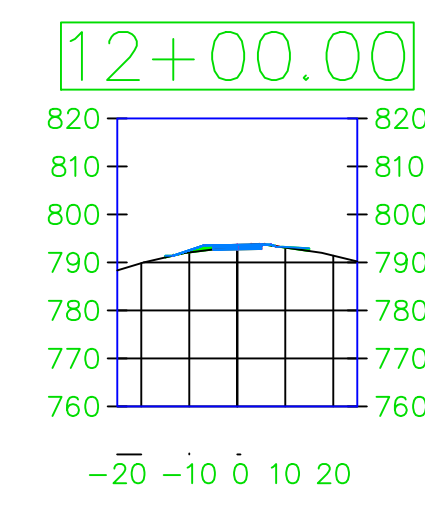
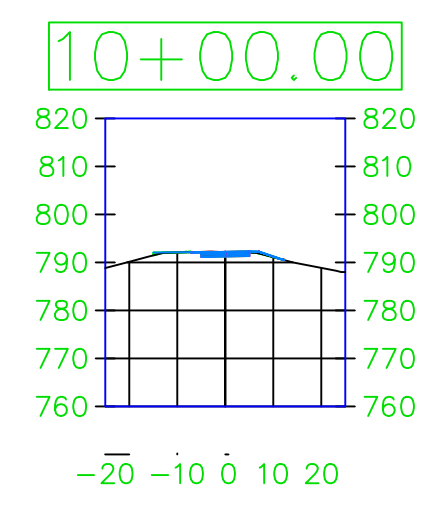


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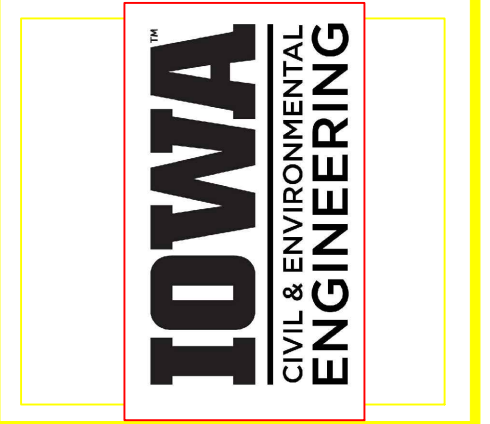
SHEET NAME
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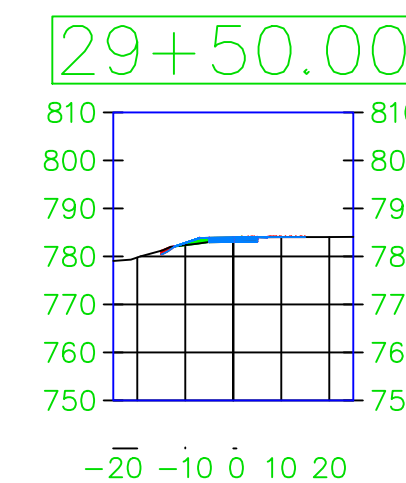
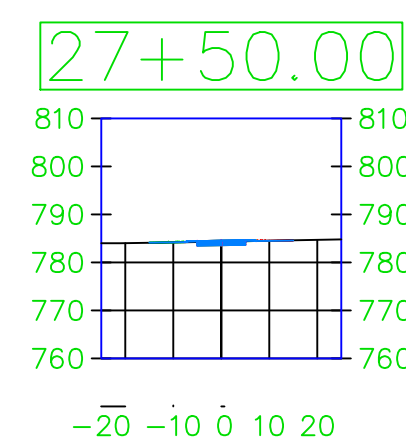
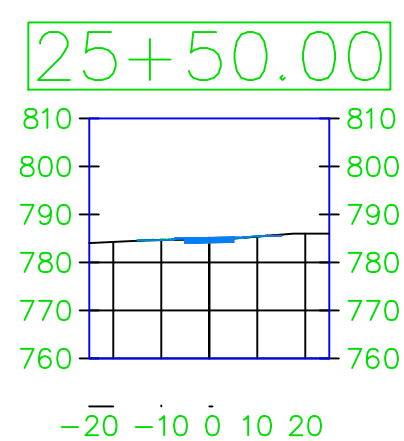
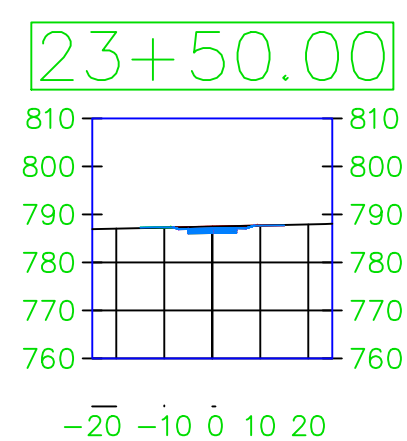
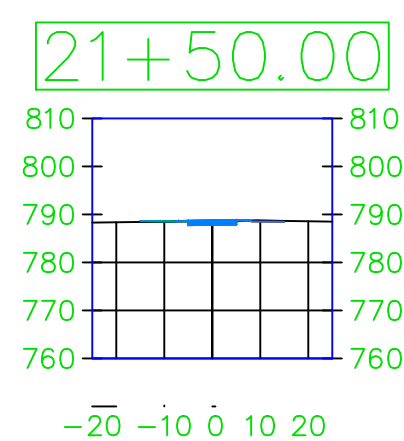
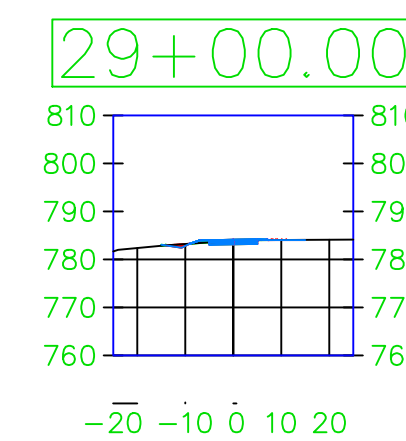
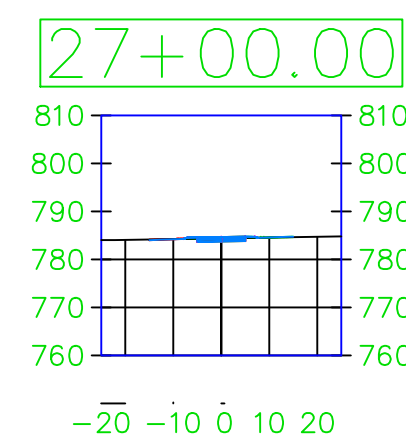
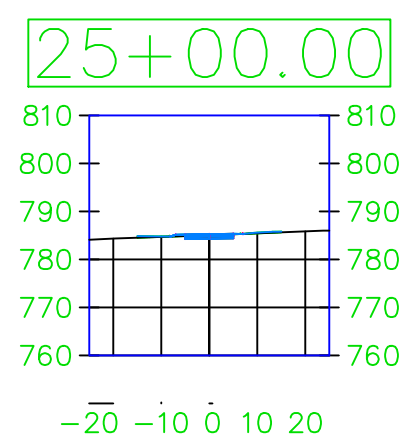
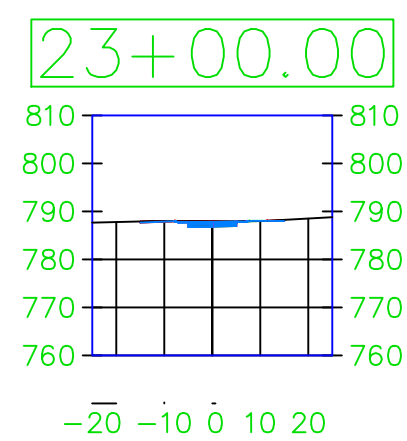
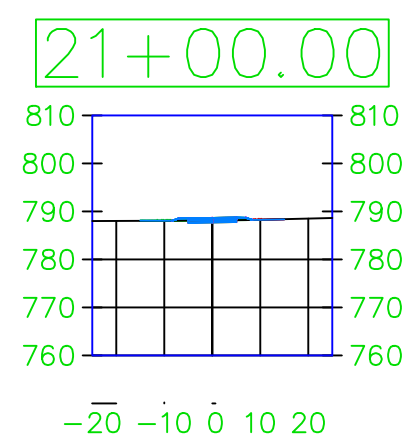
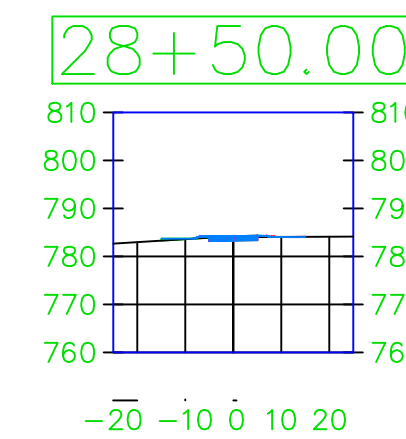
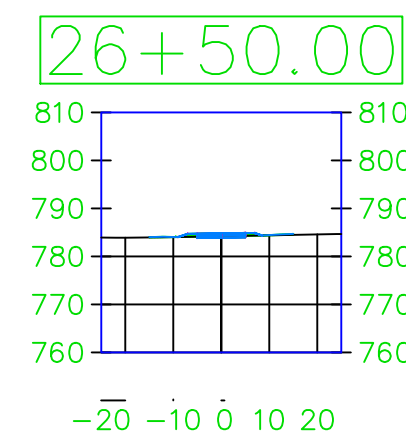
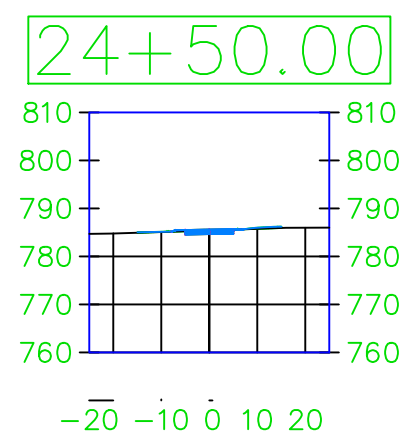
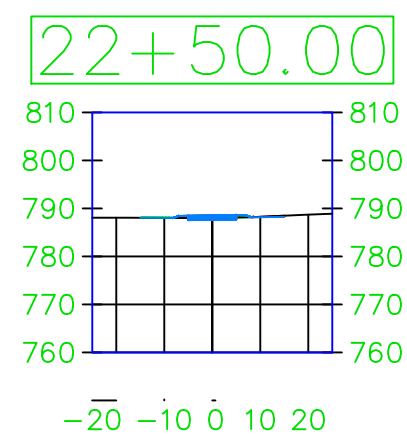
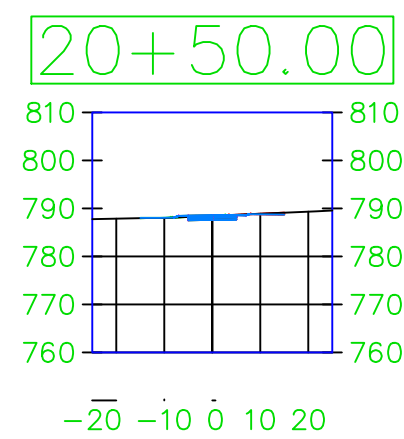
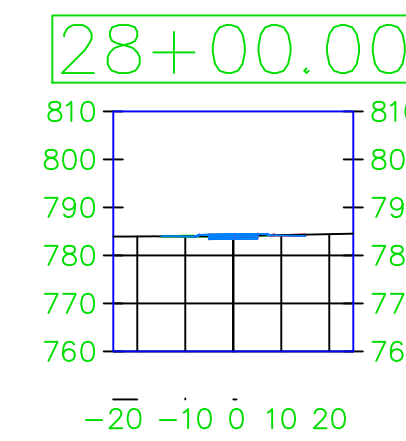
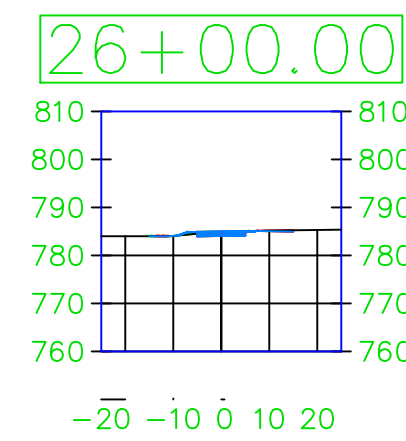
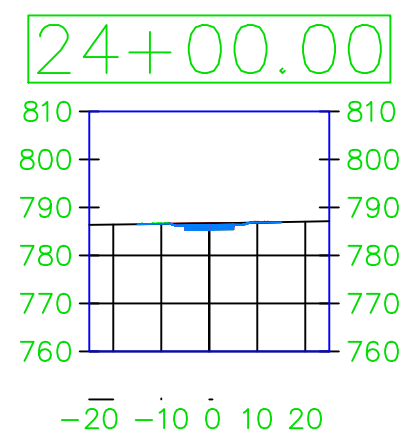
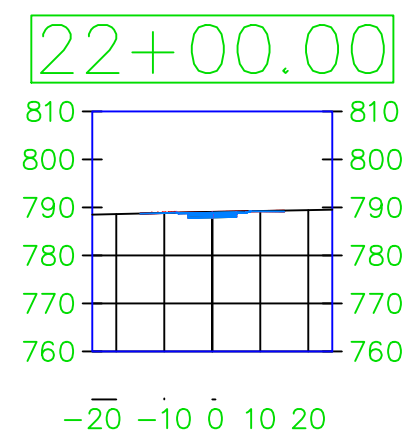
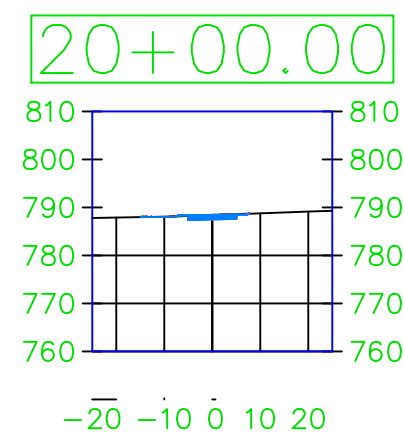


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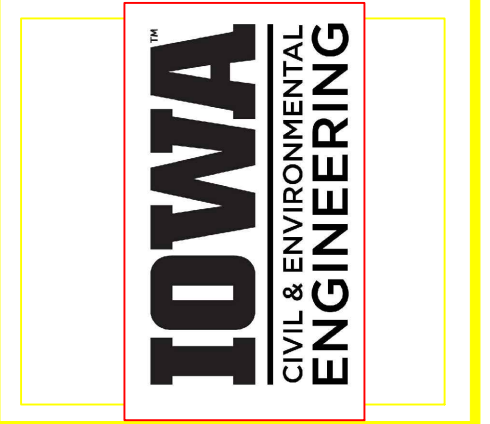
SHEET NAME
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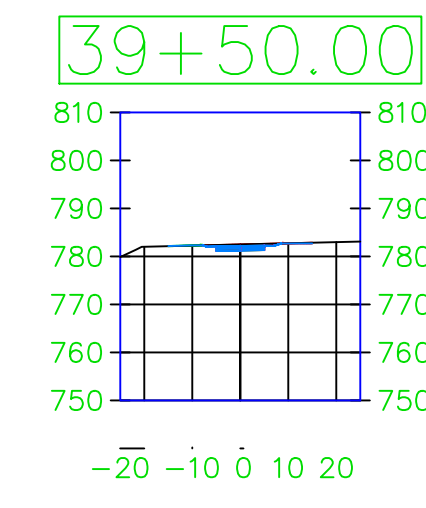
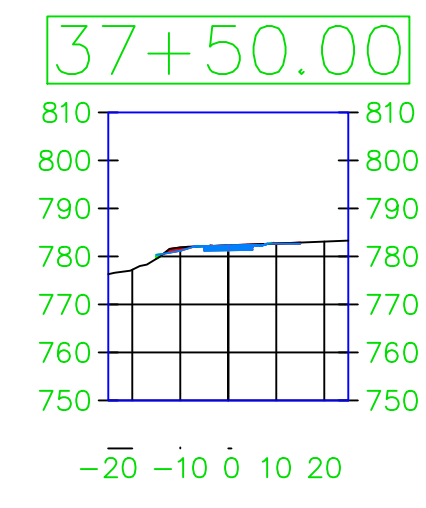
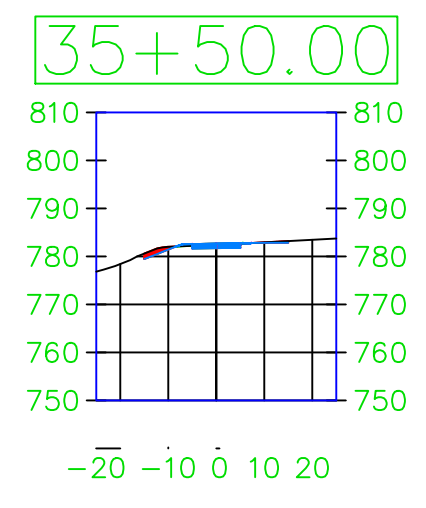
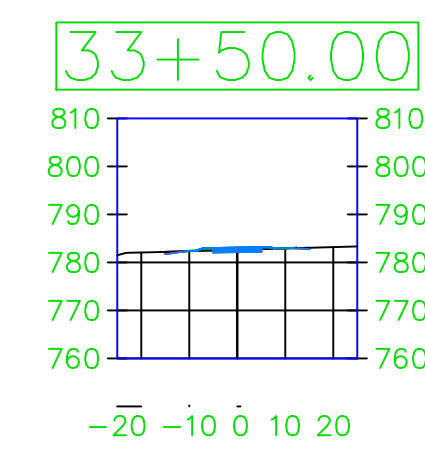
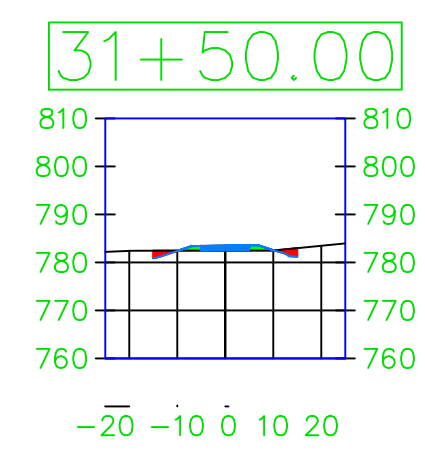
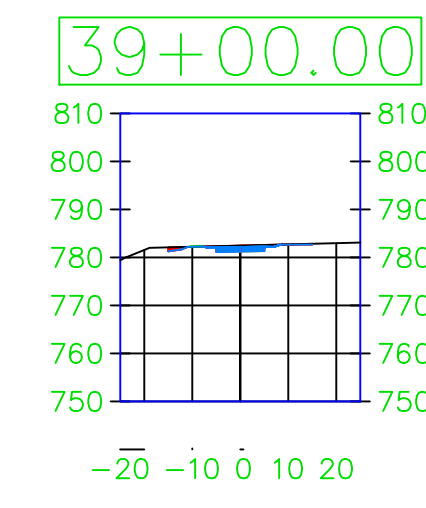
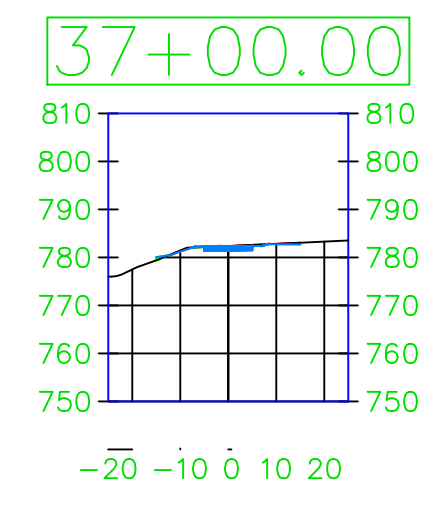
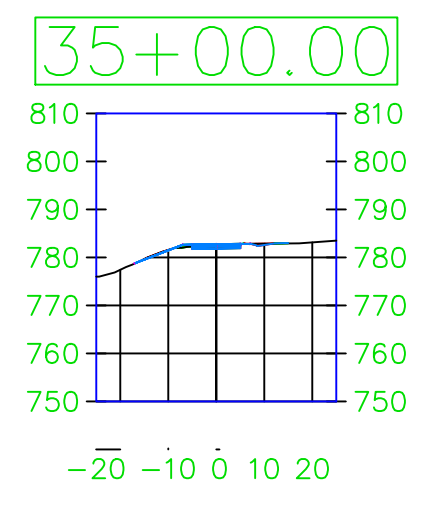
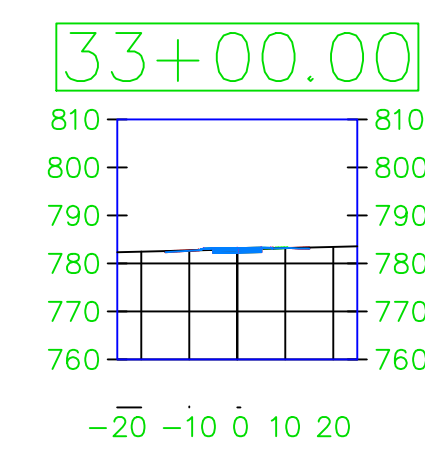
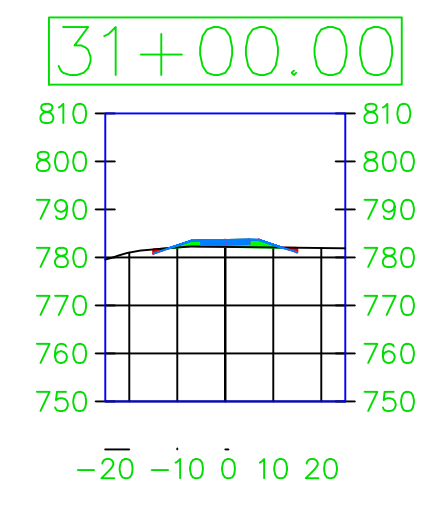
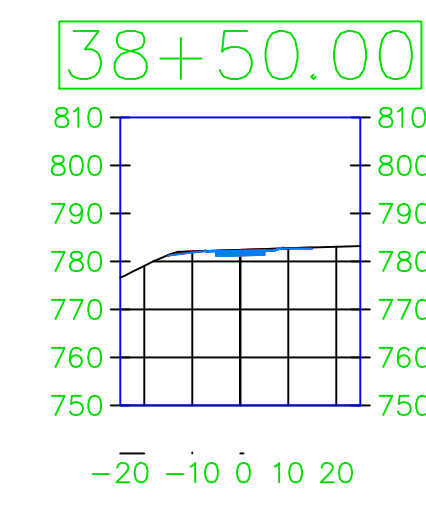
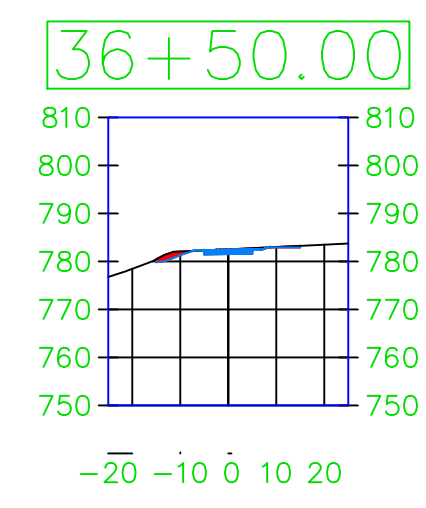
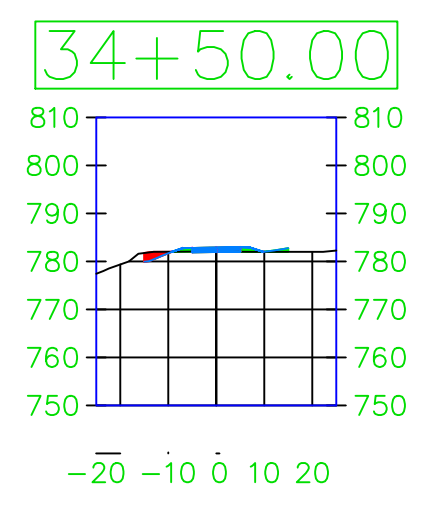
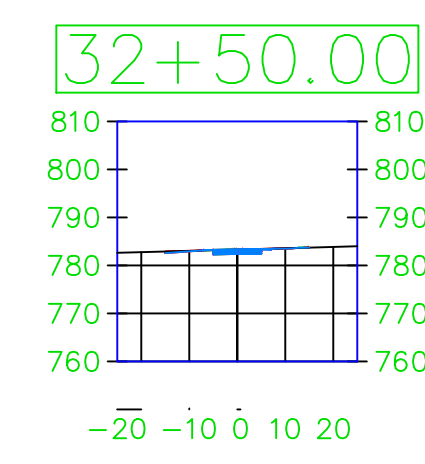
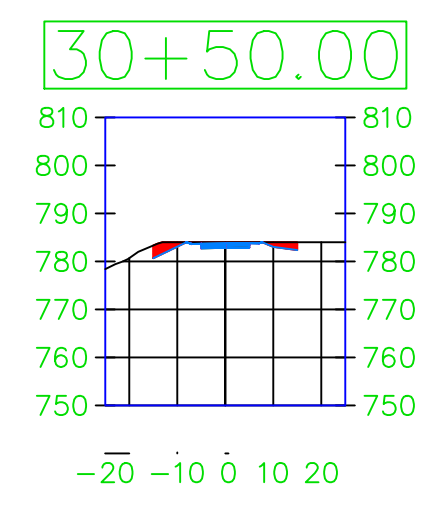
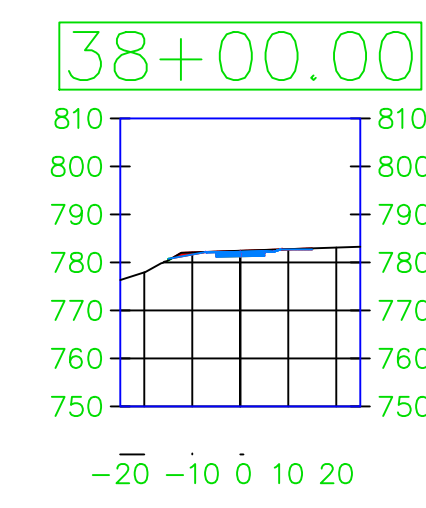
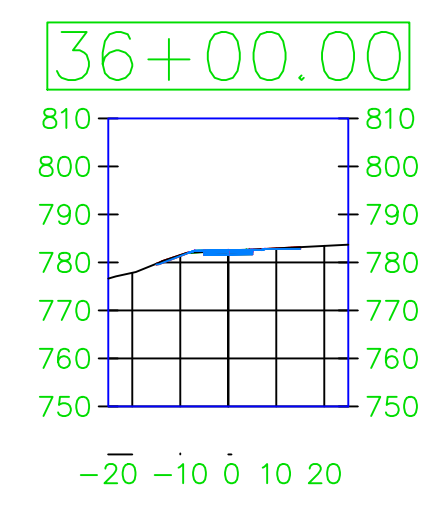
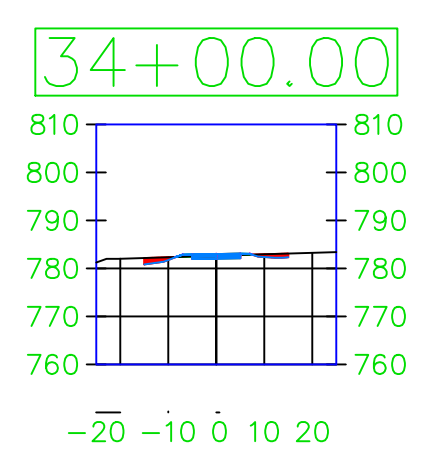
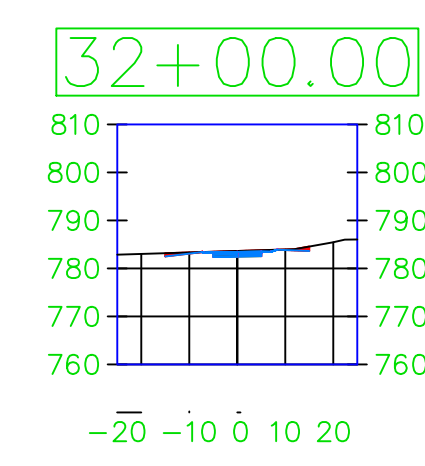
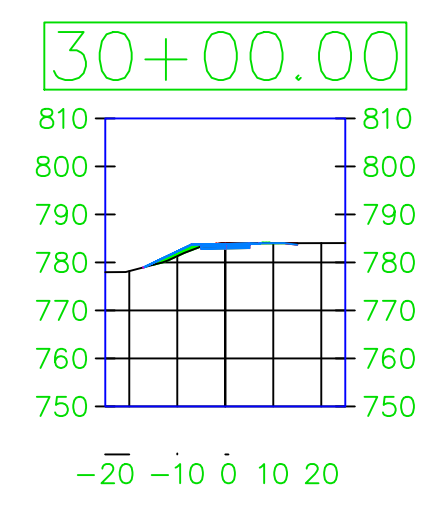


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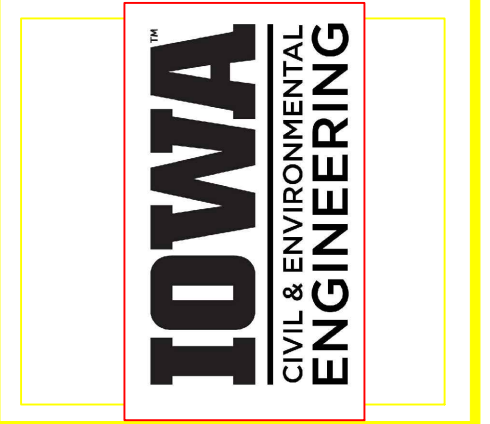
SHEET NAME
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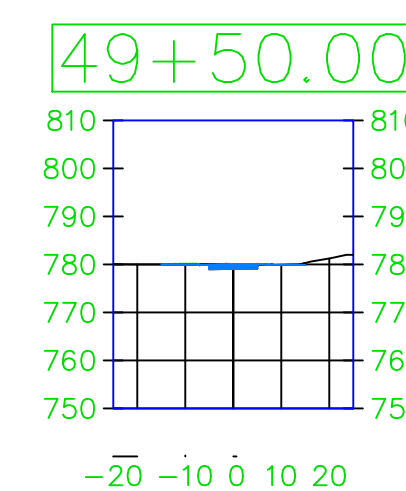
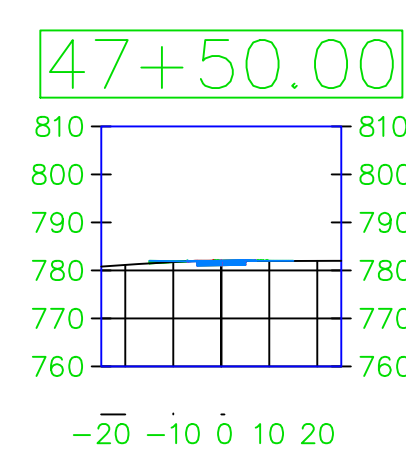
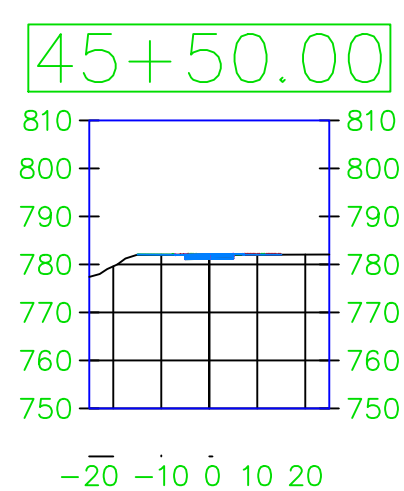
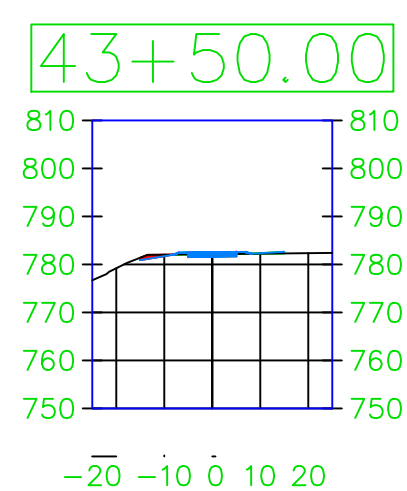
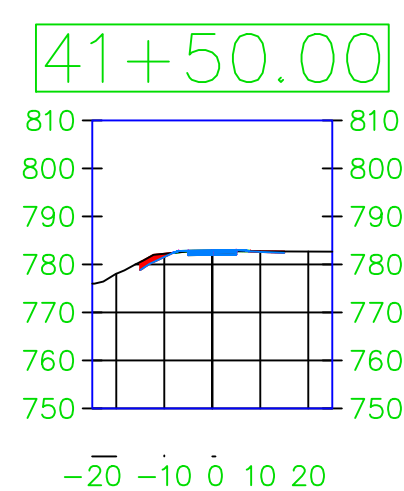
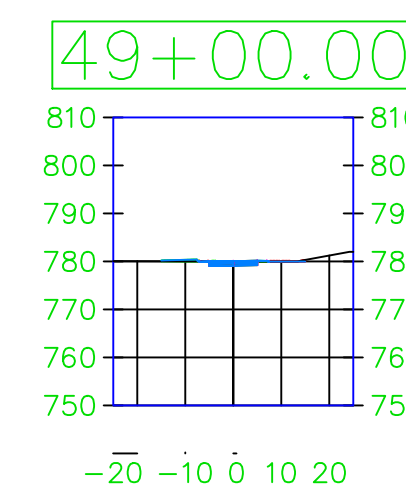
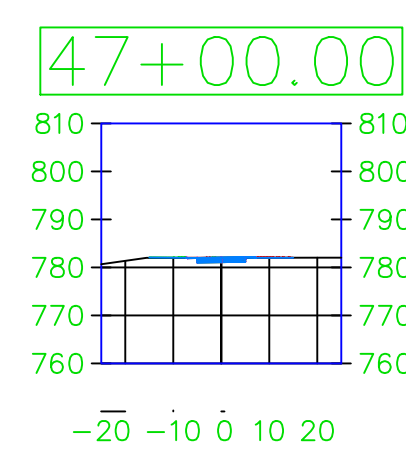
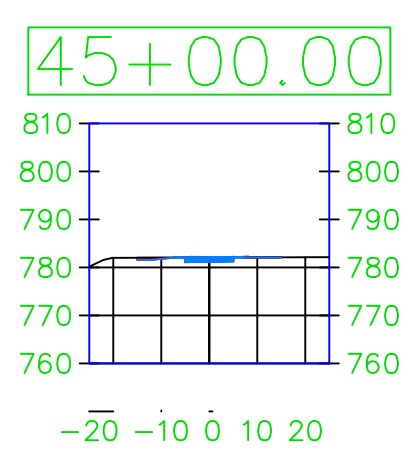
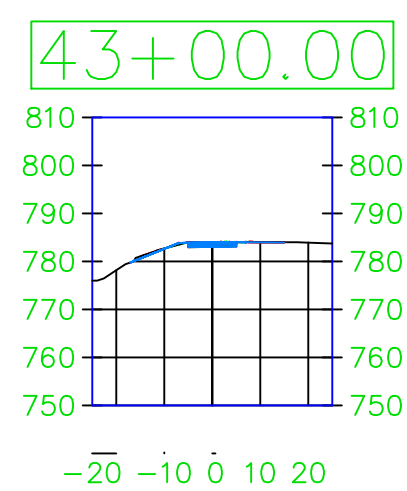
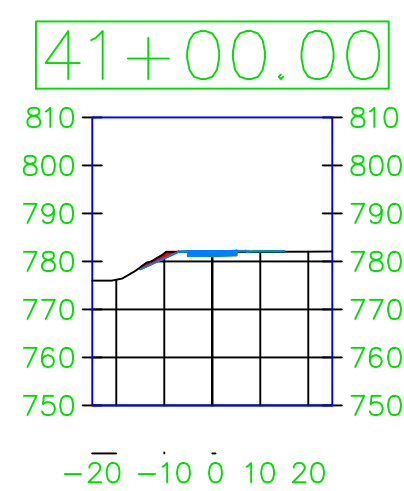
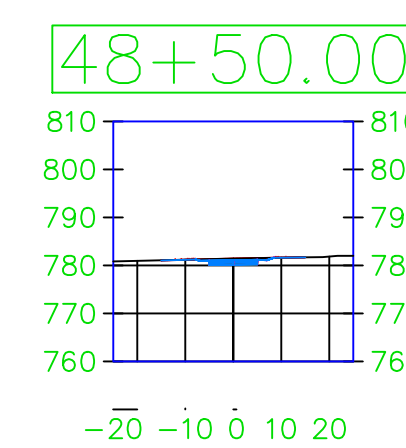
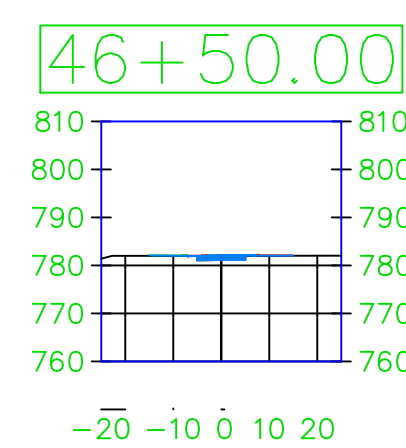
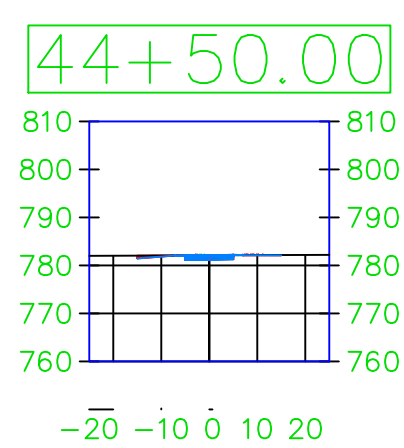
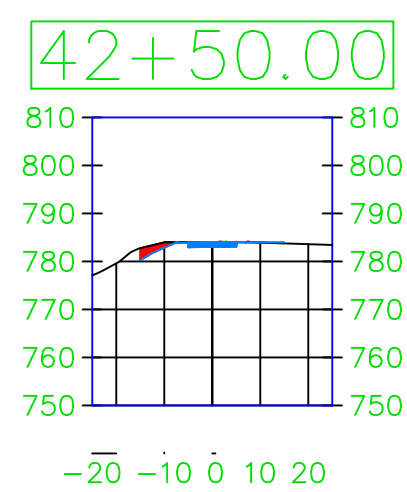
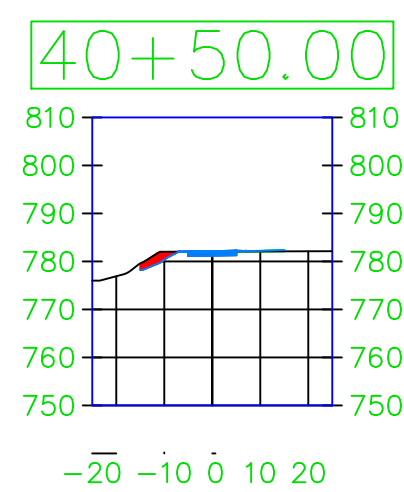
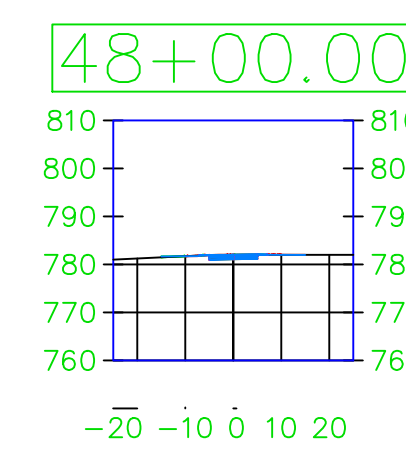
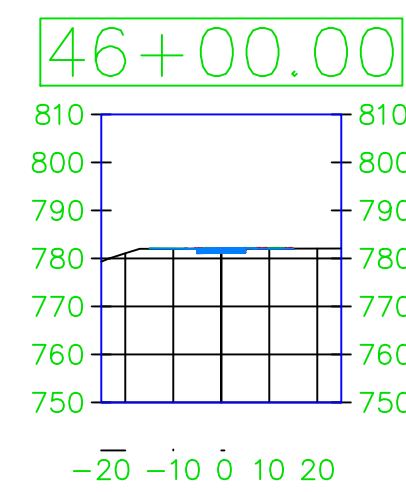
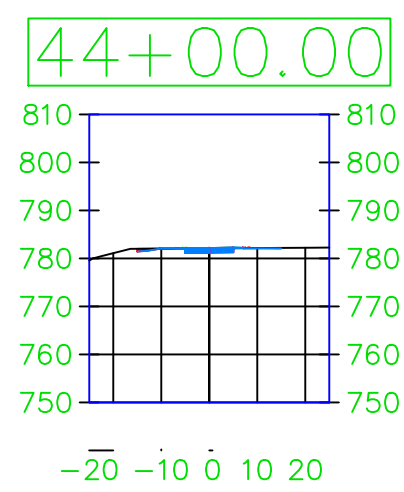
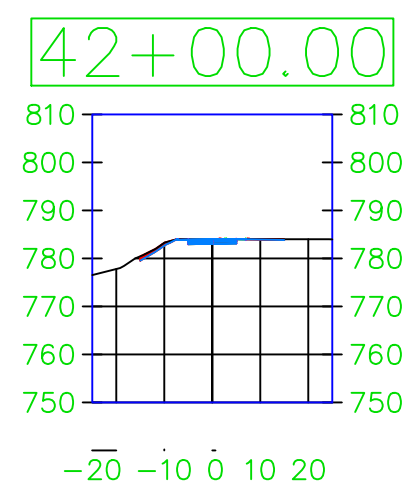
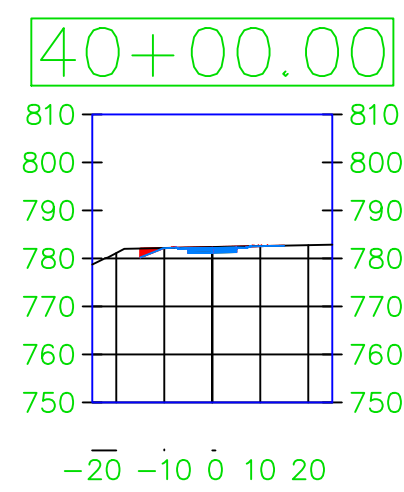


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Volga Trail

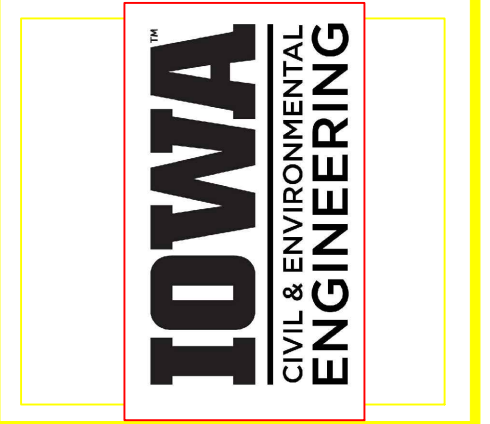
SHEET NAME
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XX



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DRAWN BY:	cds
REVISION:	

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 4105 SEAMANS CENTER FOR THE
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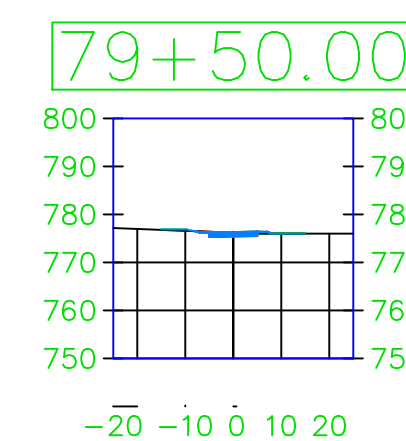
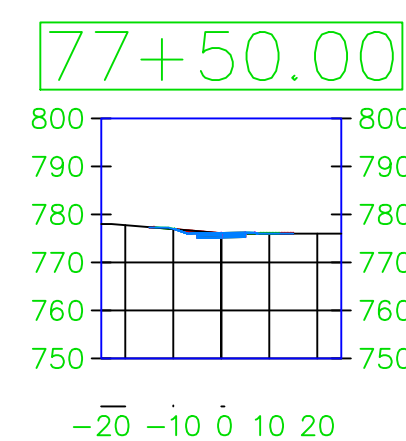
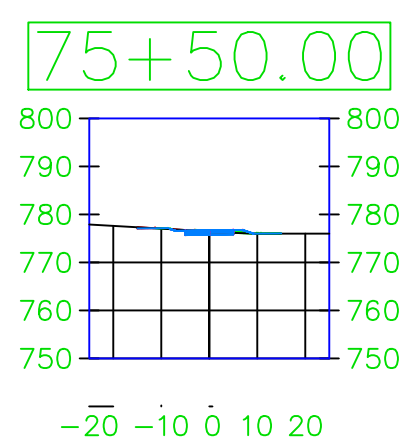
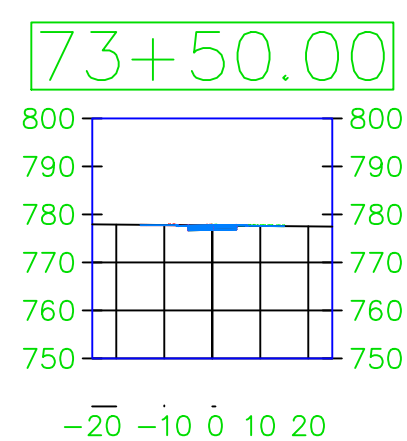
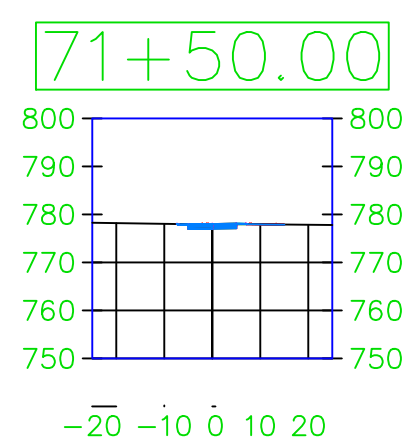
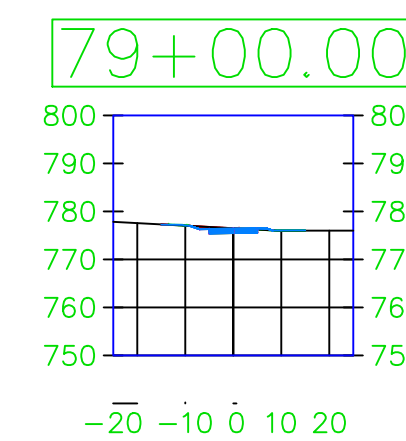
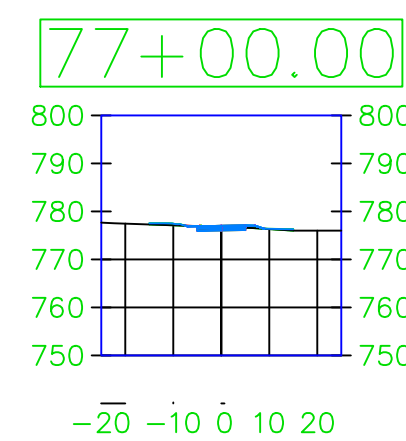
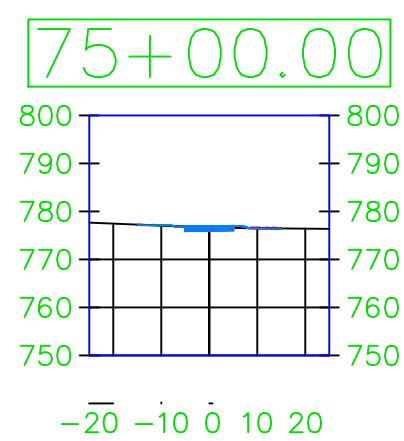
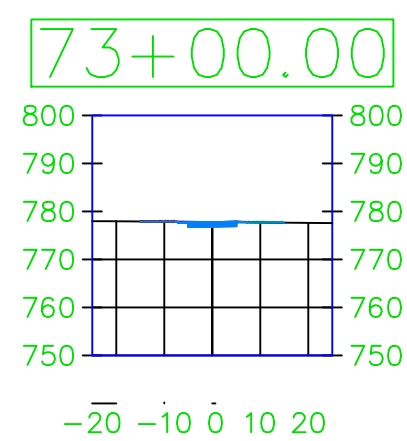
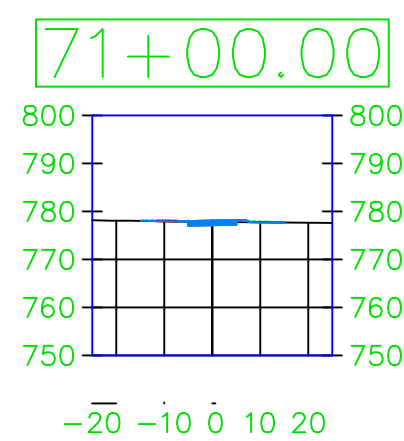
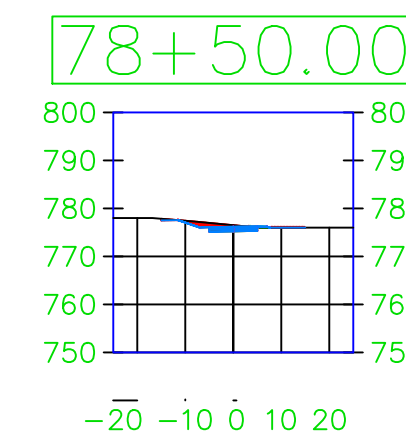
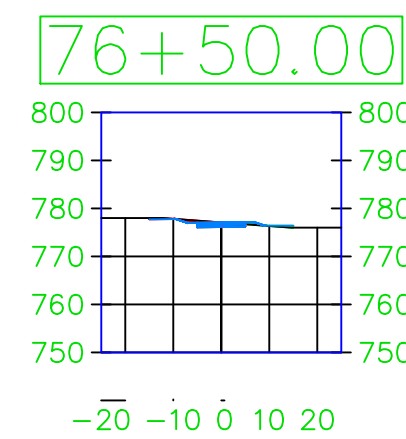
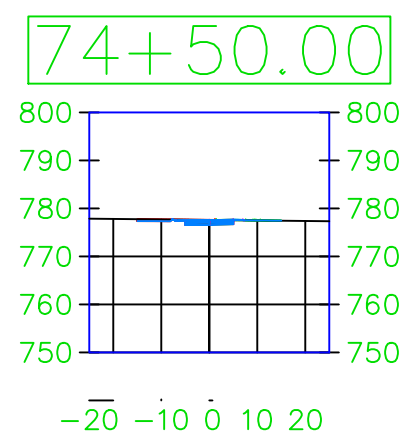
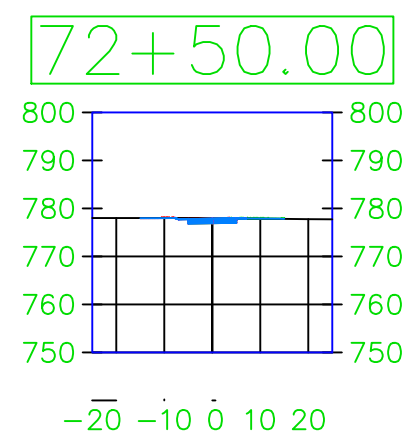
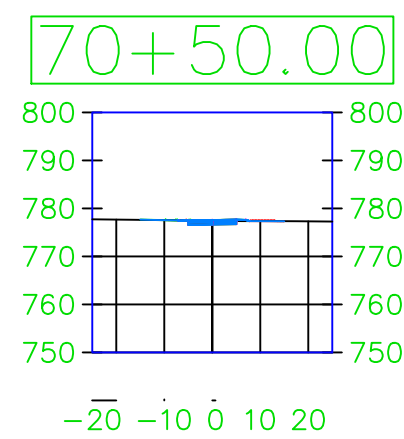
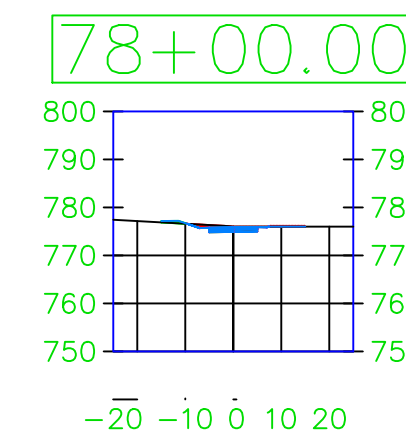
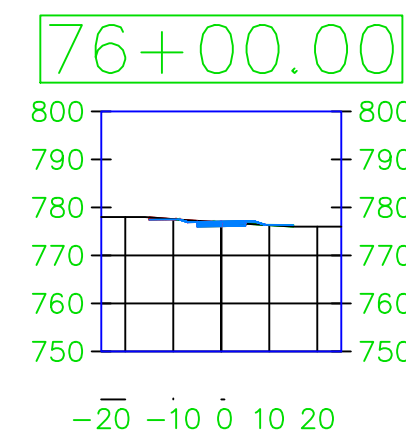
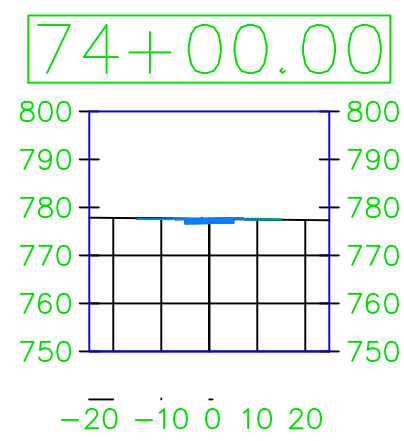
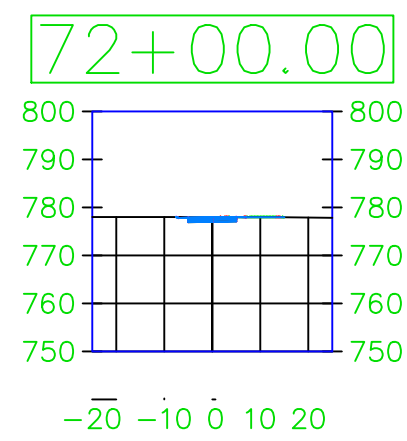
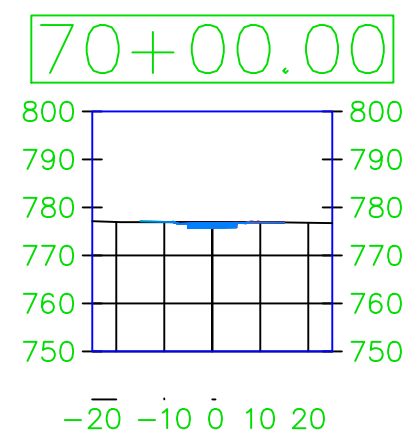


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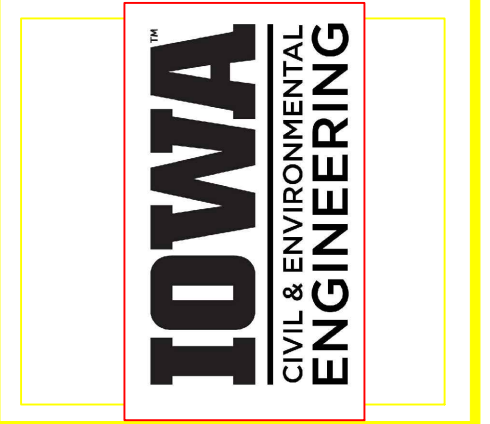
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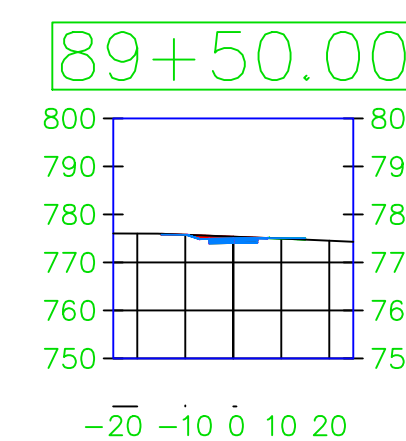
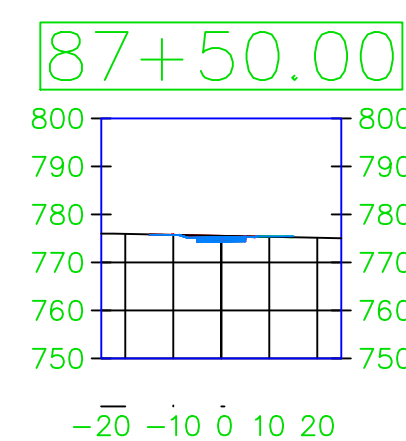
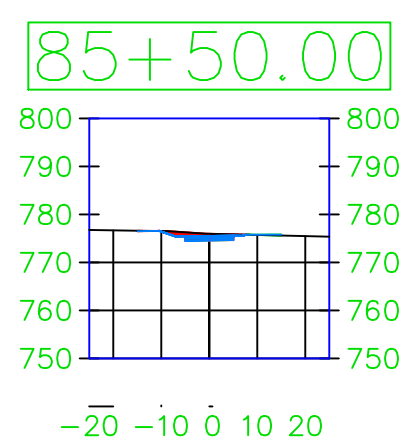
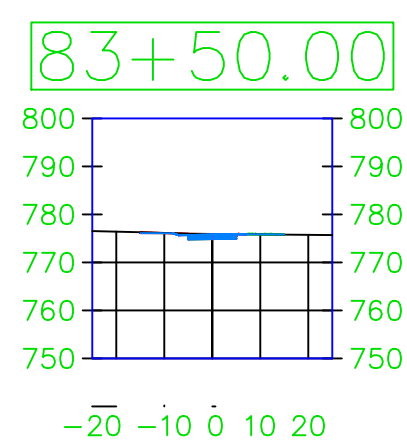
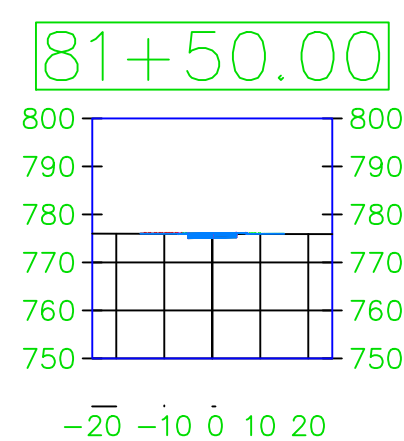
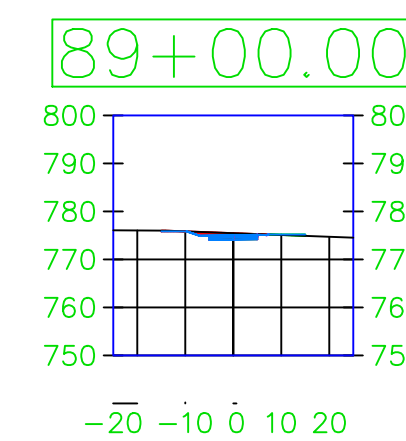
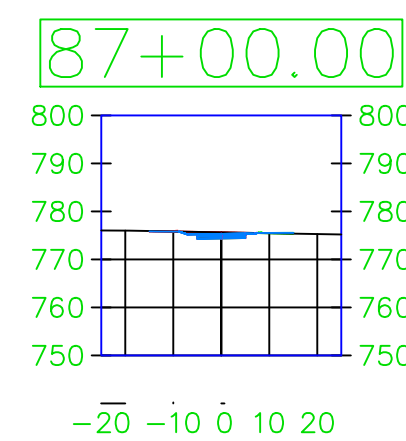
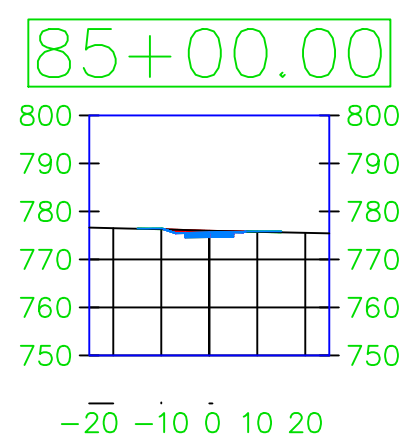
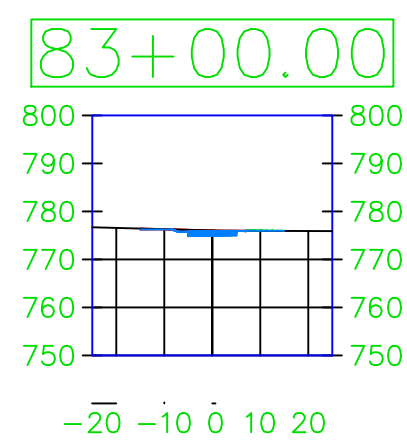
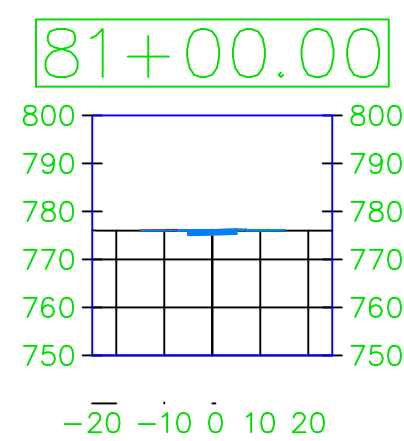
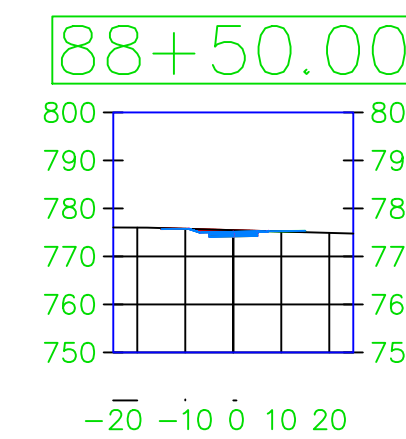
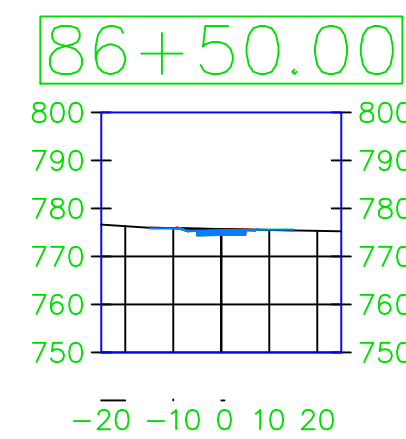
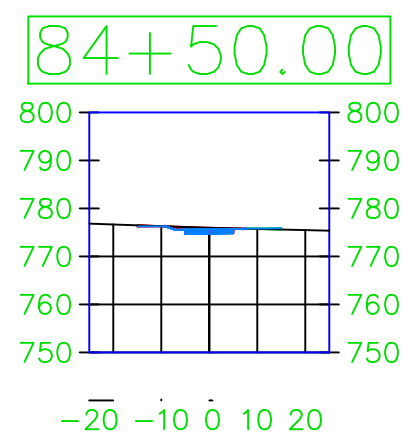
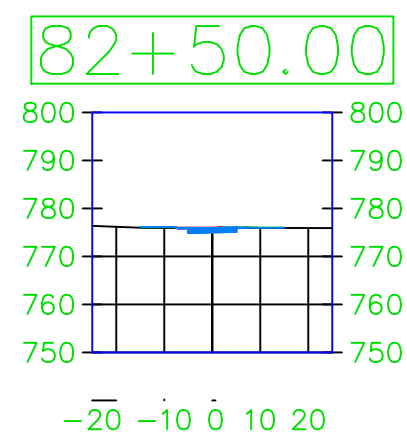
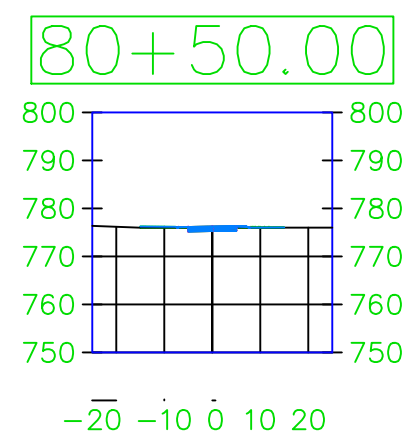
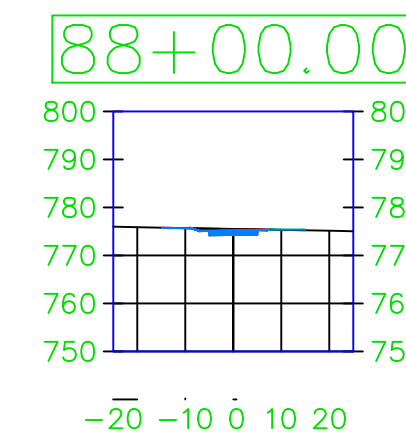
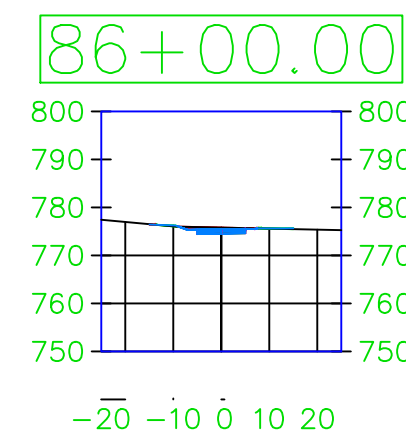
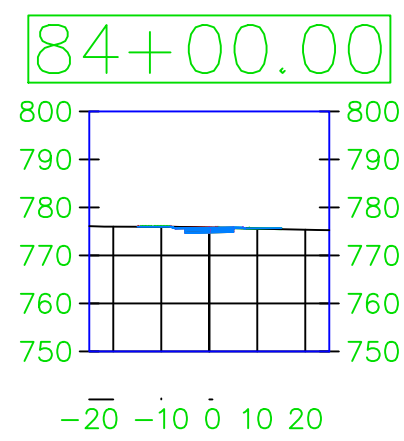
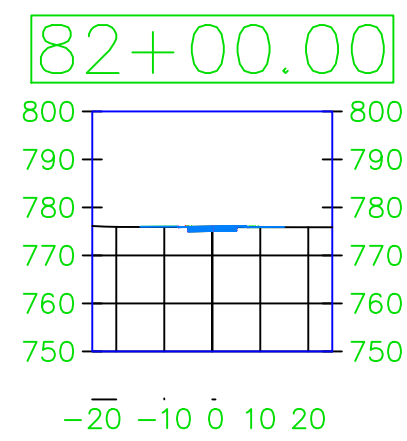
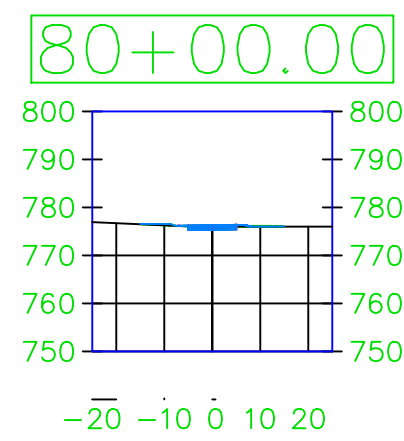


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Volga Trail

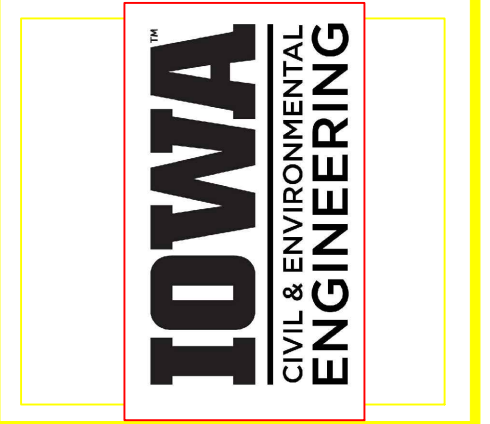
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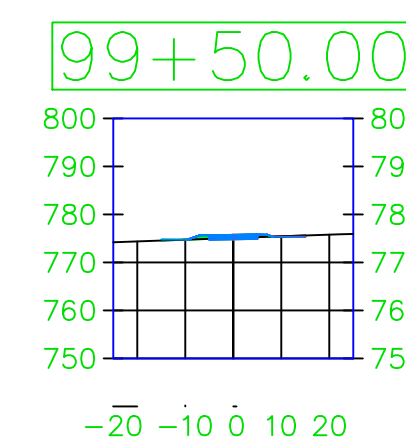
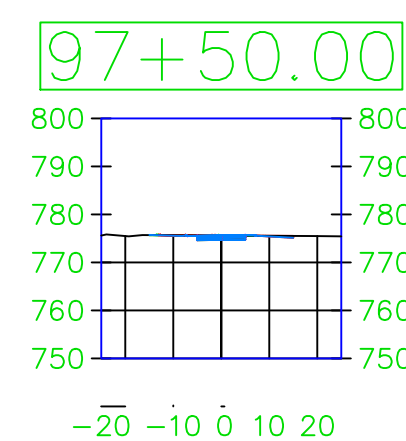
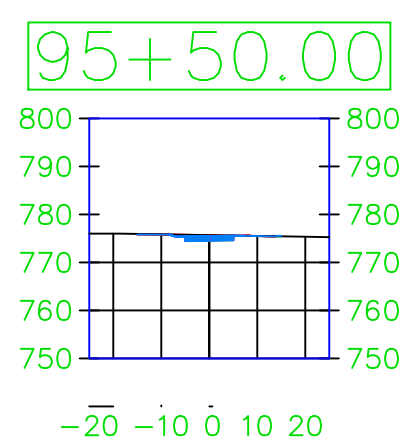
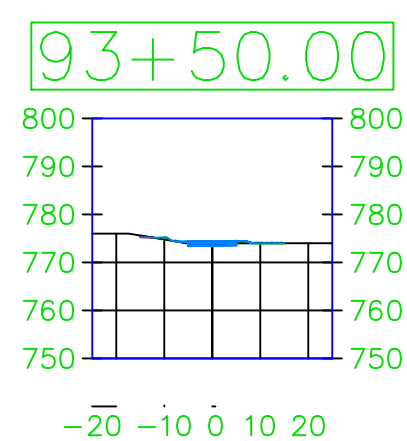
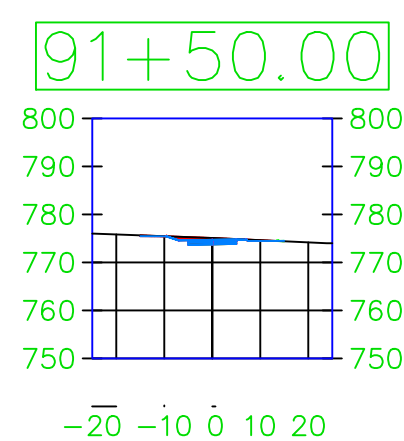
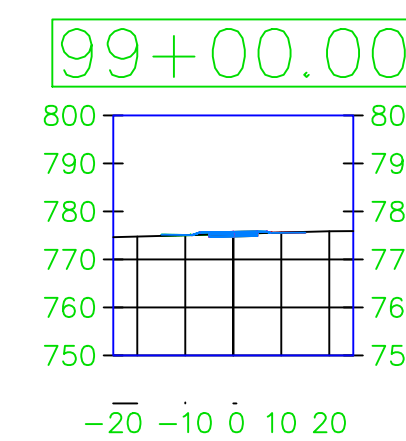
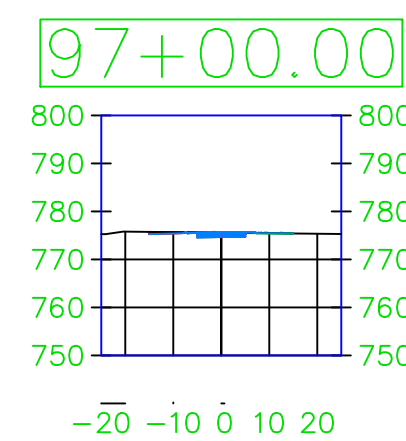
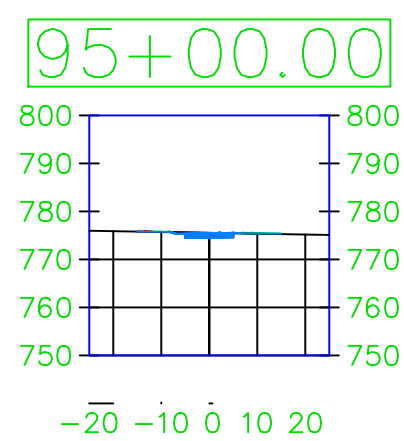
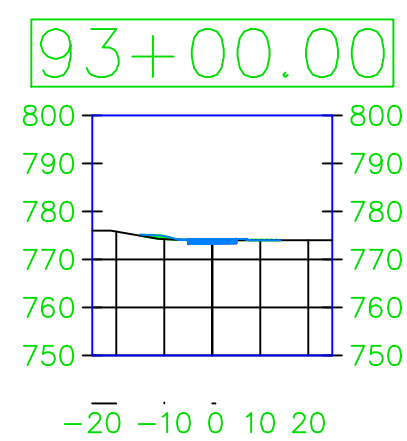
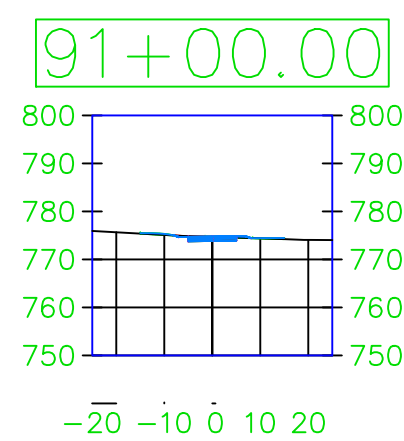
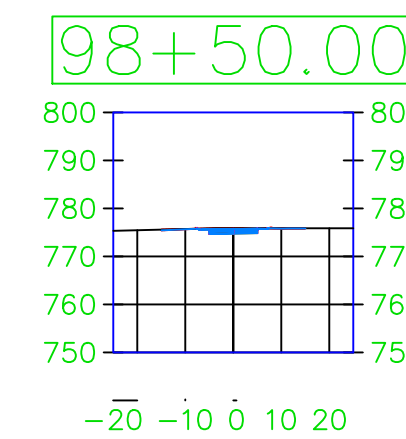
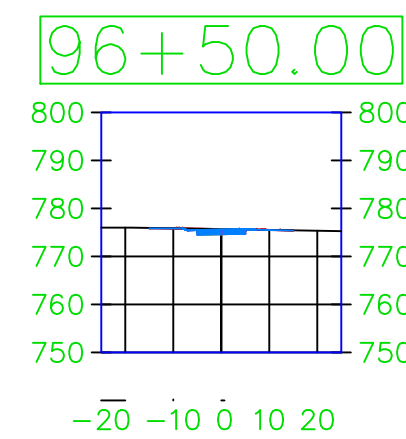
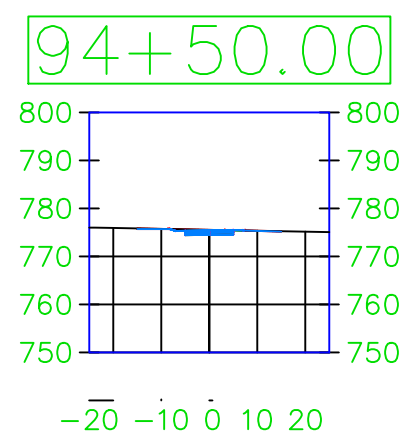
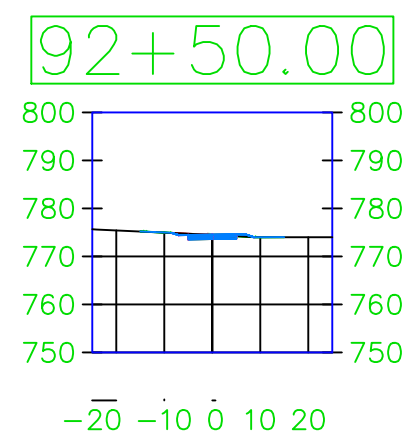
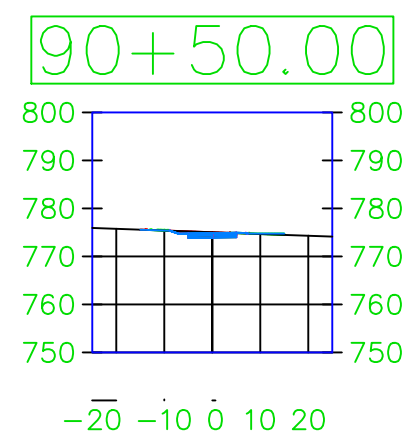
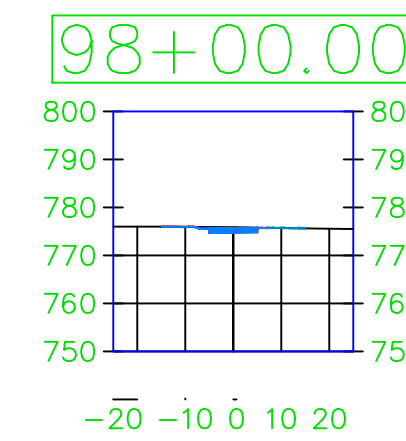
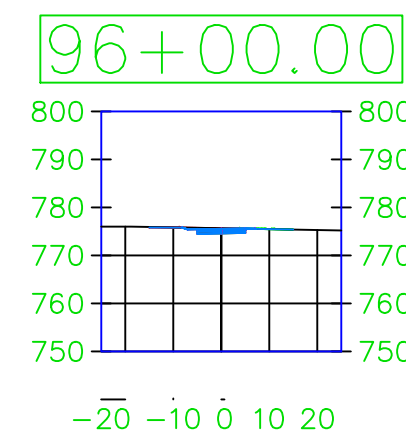
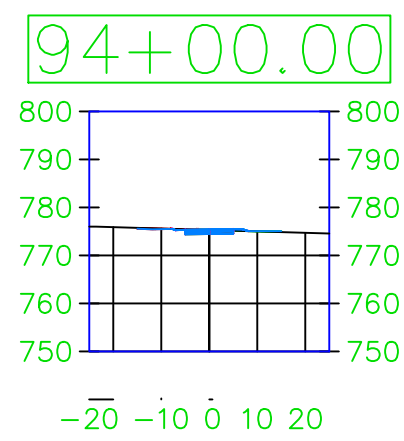
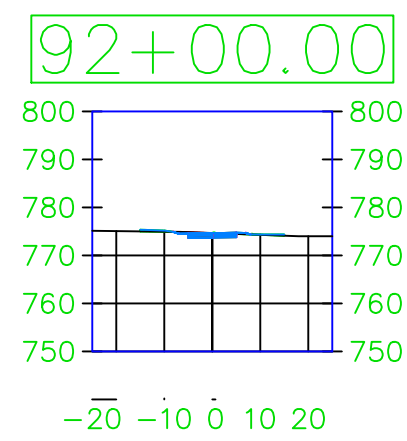
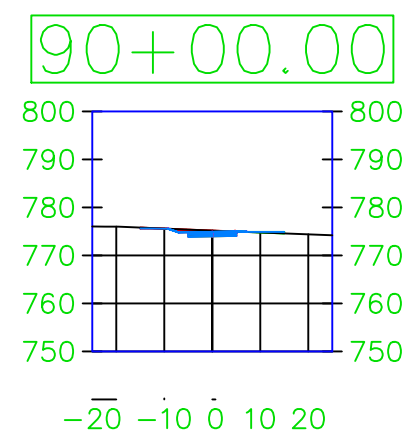


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Volga Trail

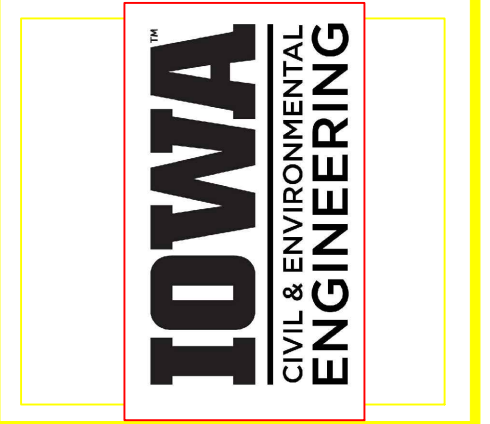
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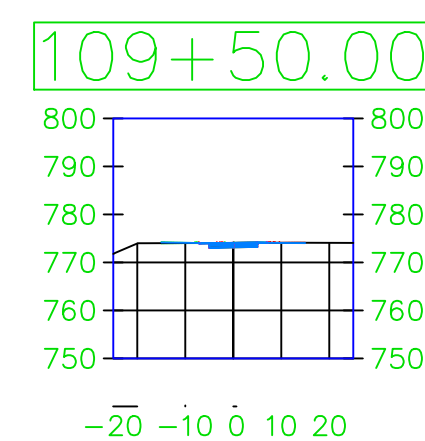
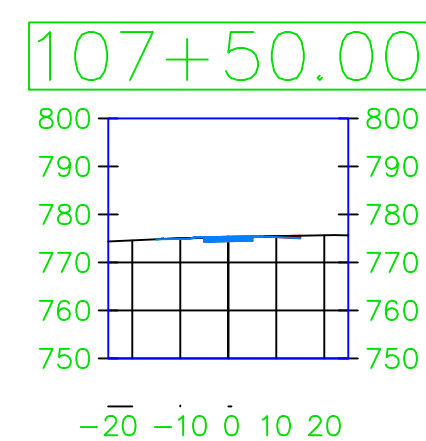
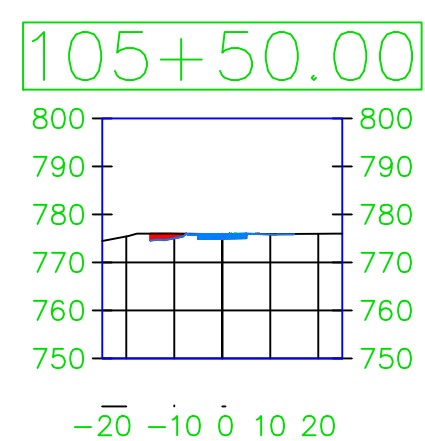
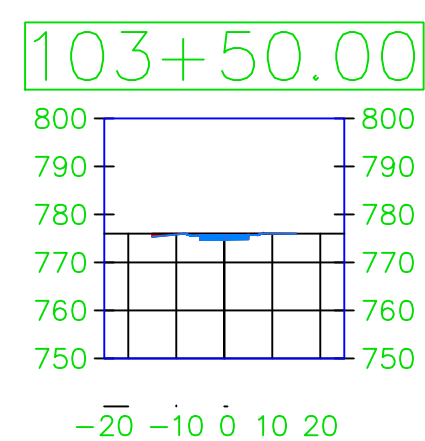
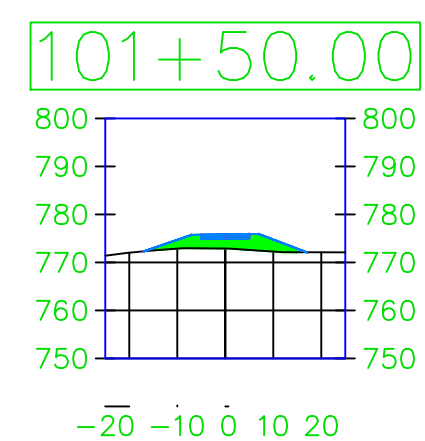
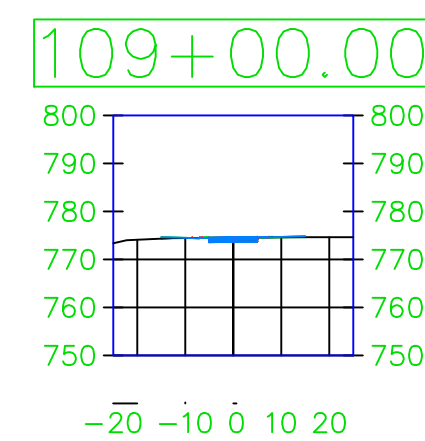
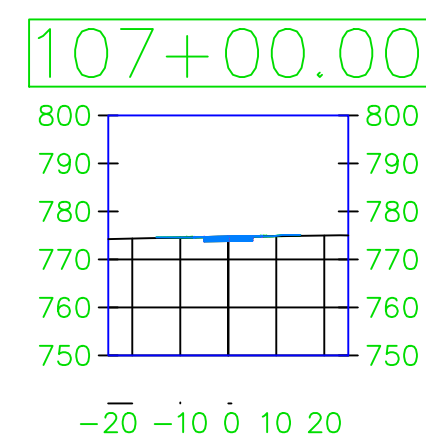
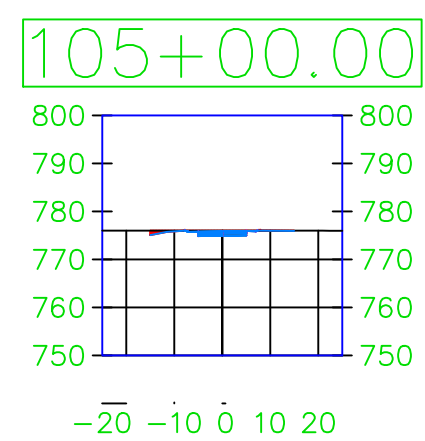
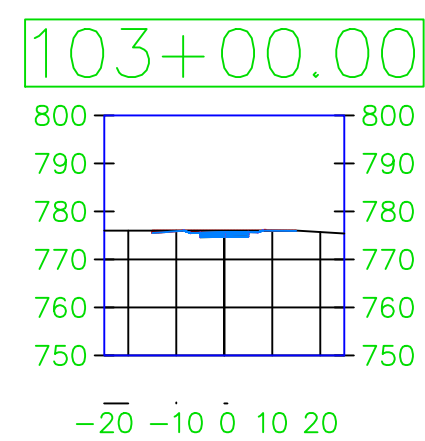
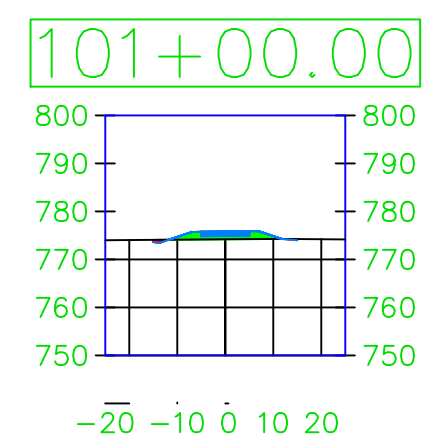
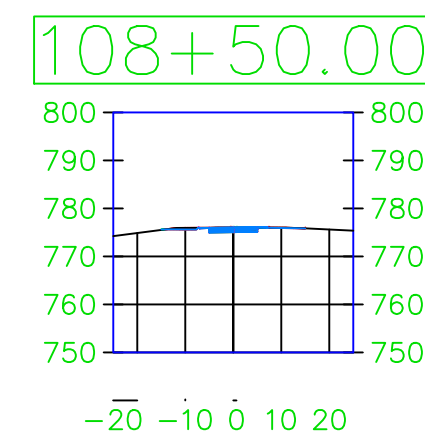
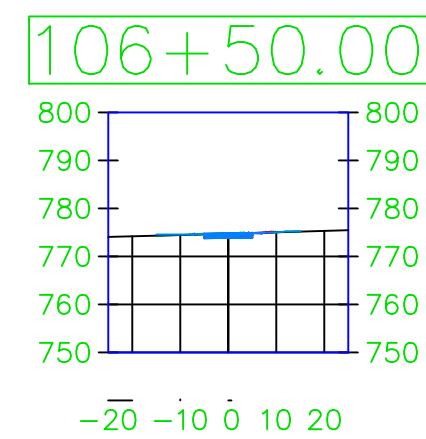
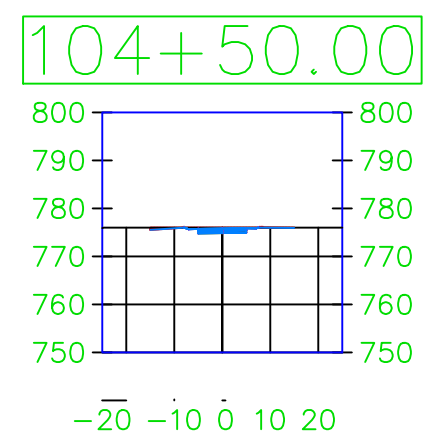
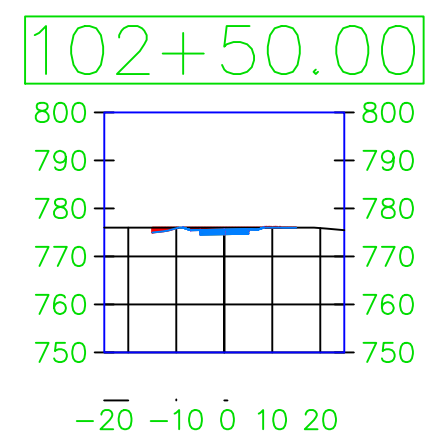
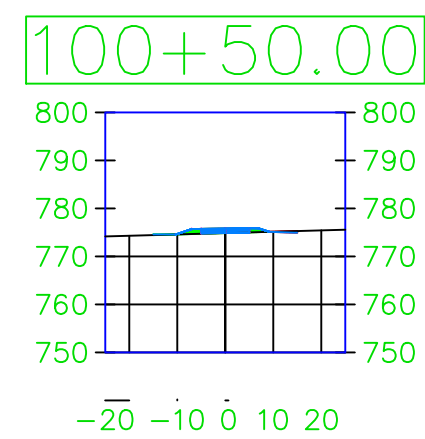
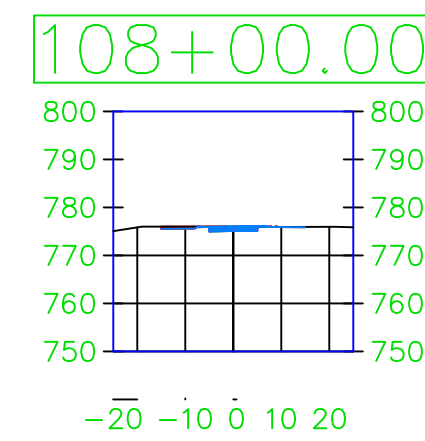
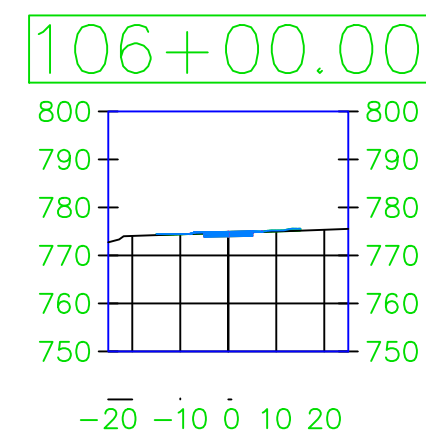
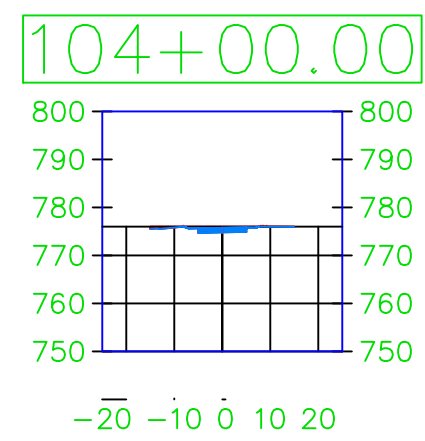
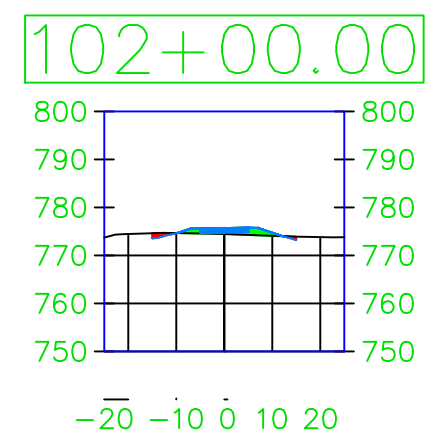
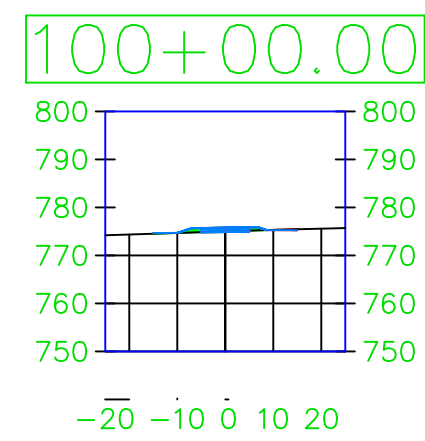


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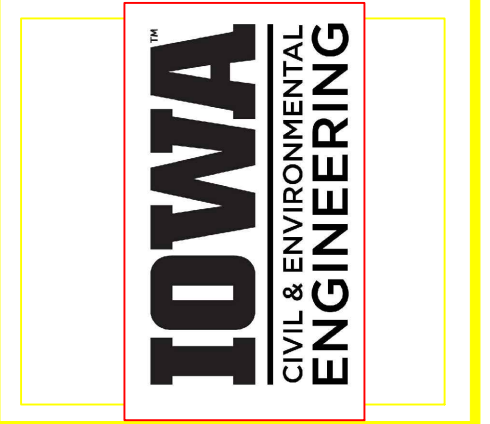
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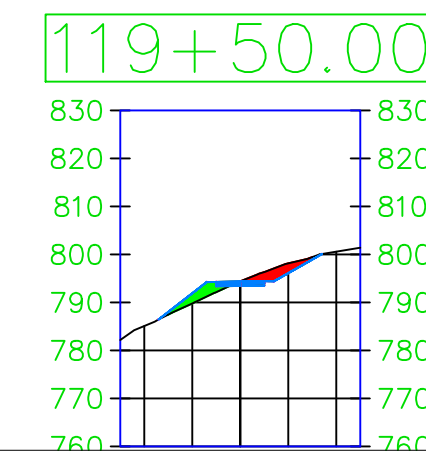
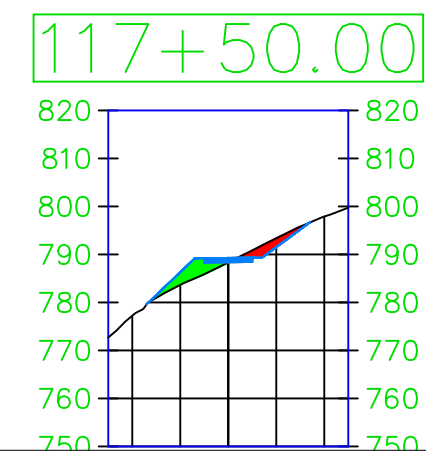
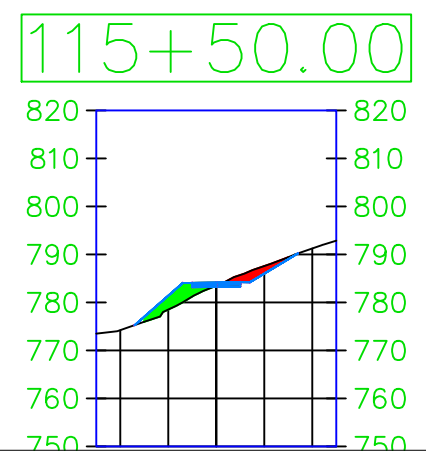
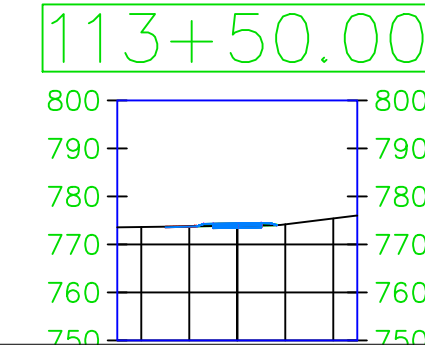
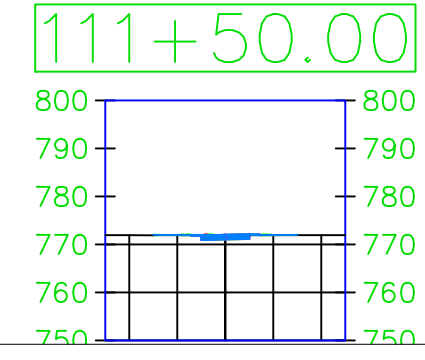
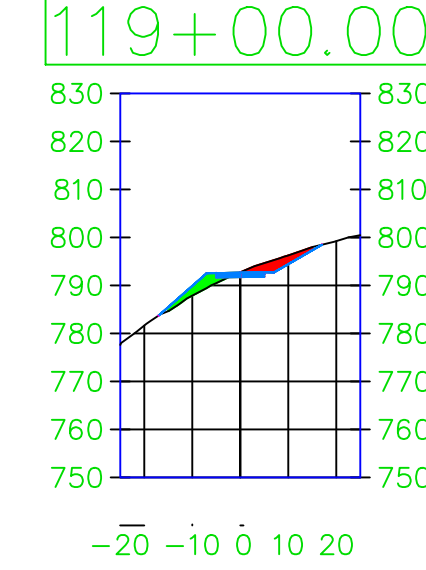
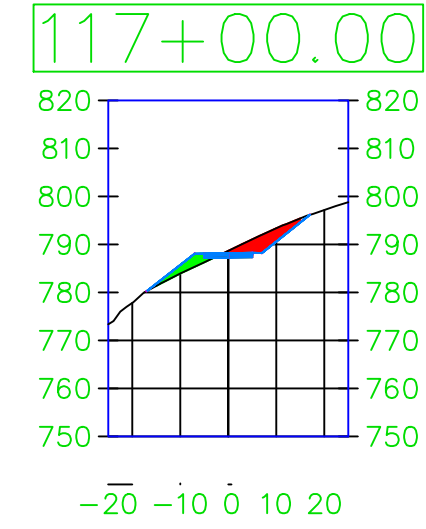
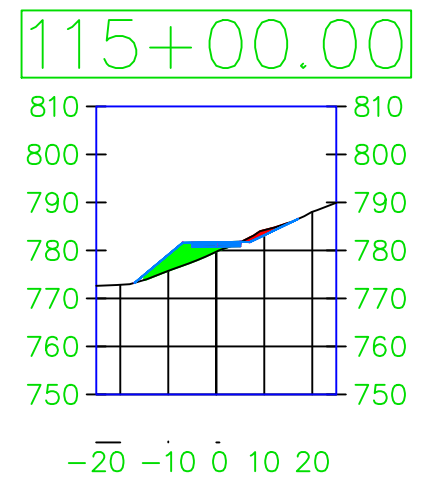
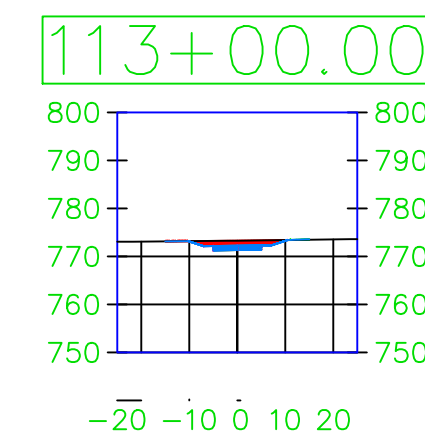
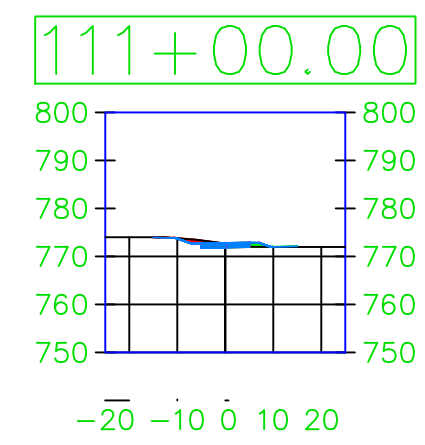
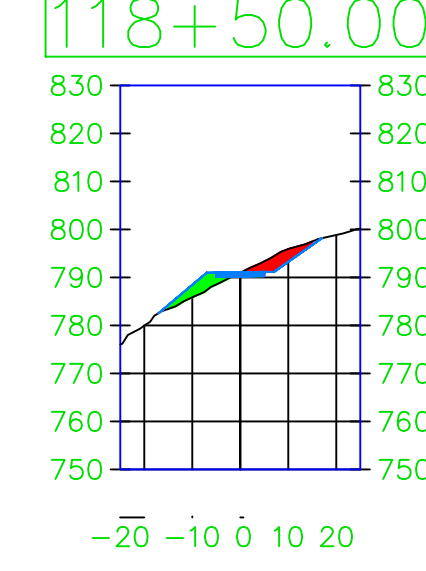
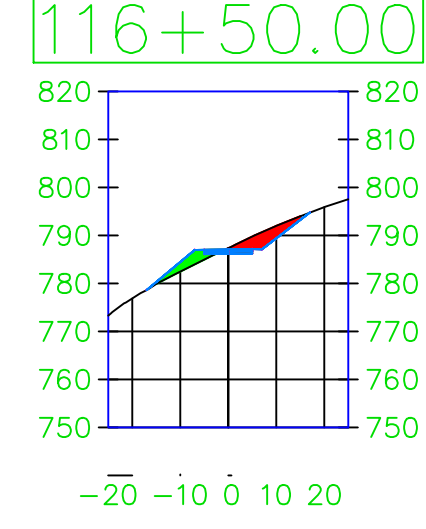
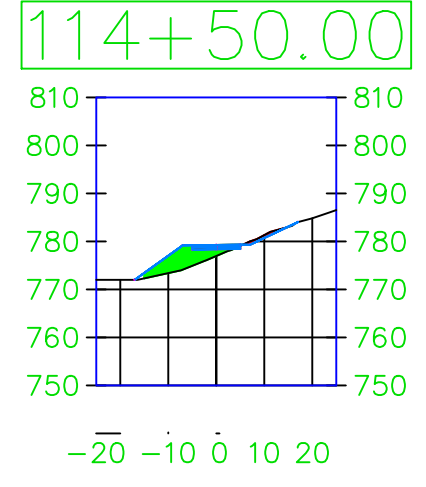
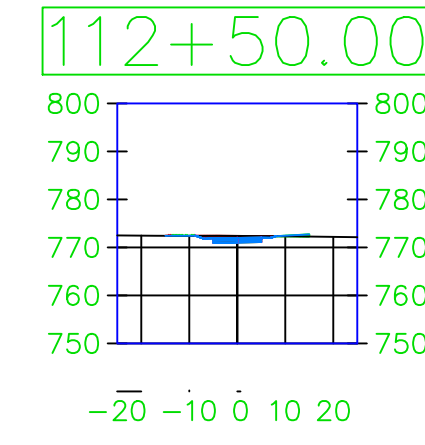
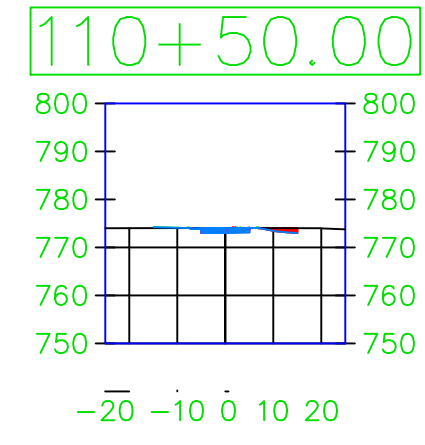
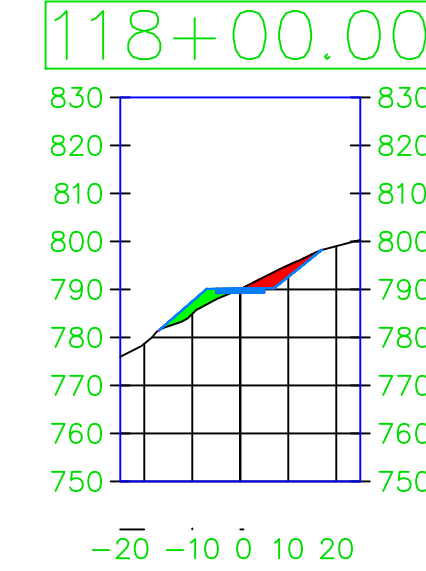
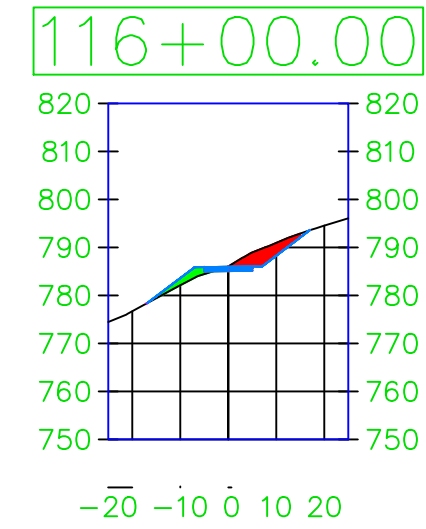
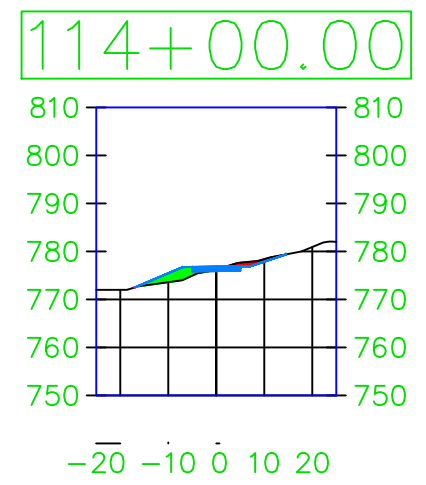
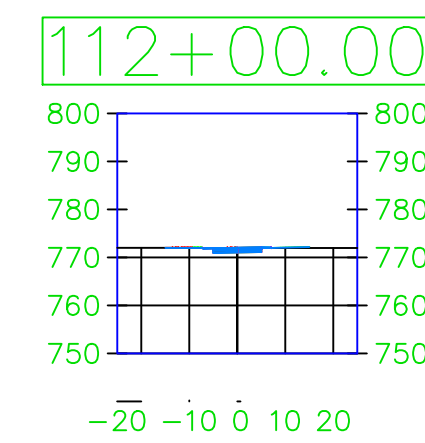
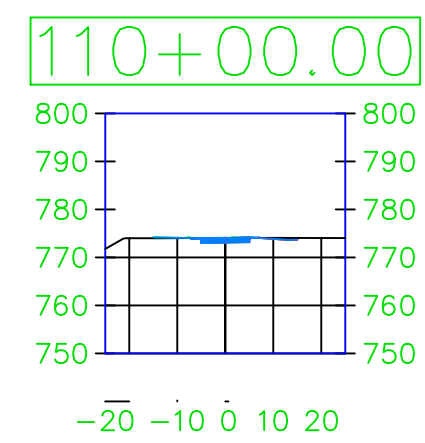


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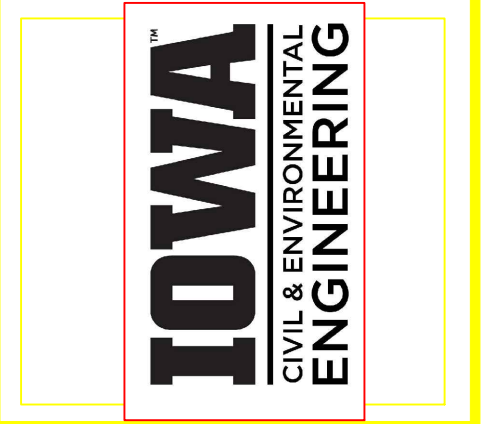
SHEET NAME
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SHEET NO.
XX



PROJECT:	CEE: 4850
DATE :	4/17/2020
DRAWN BY:	cds
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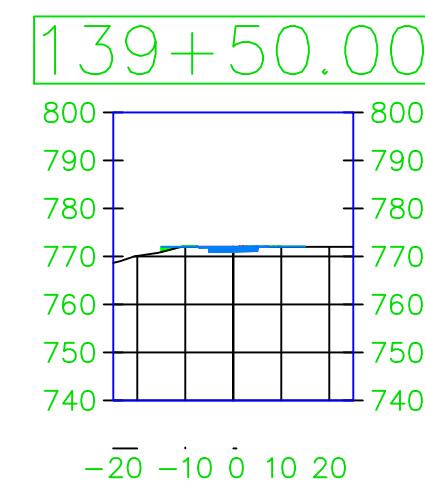
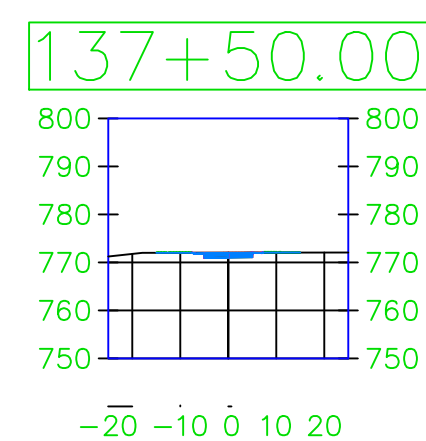
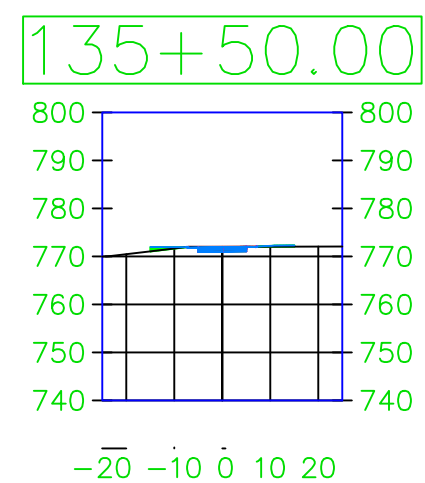
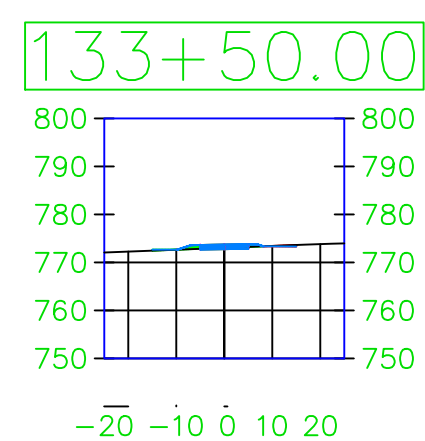
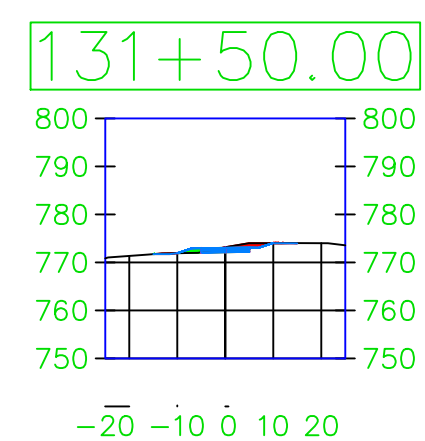
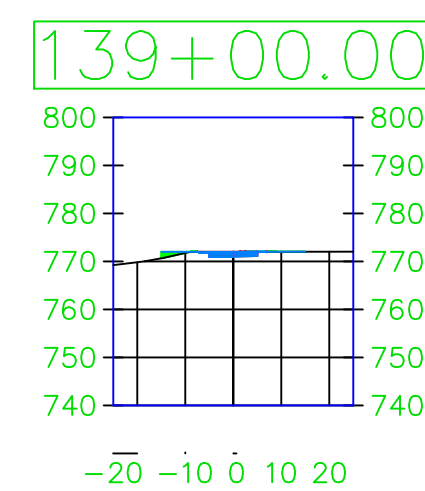
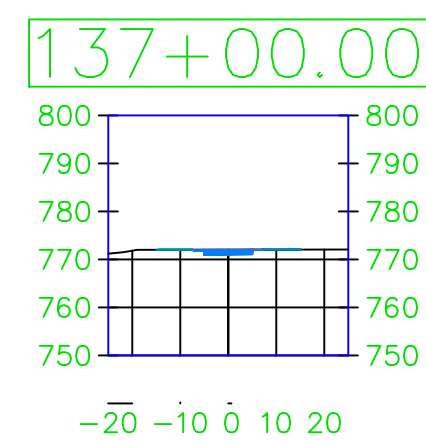
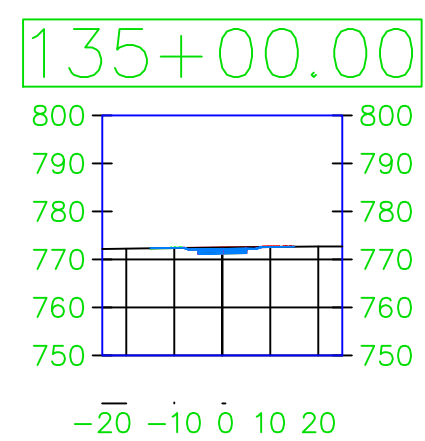
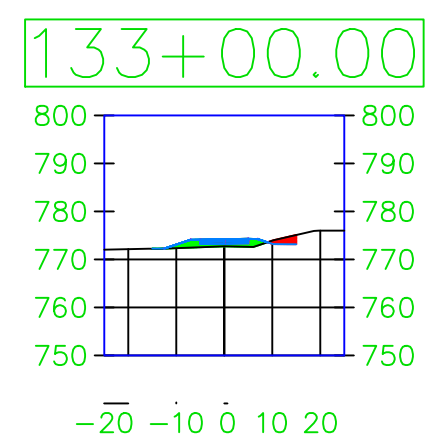
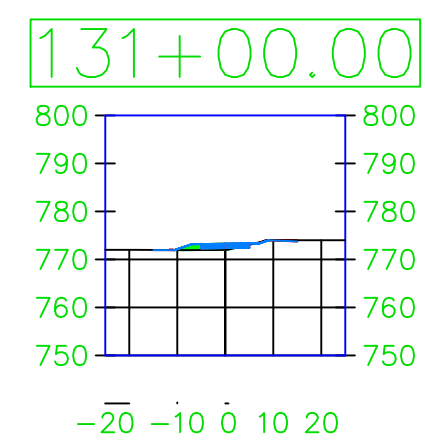
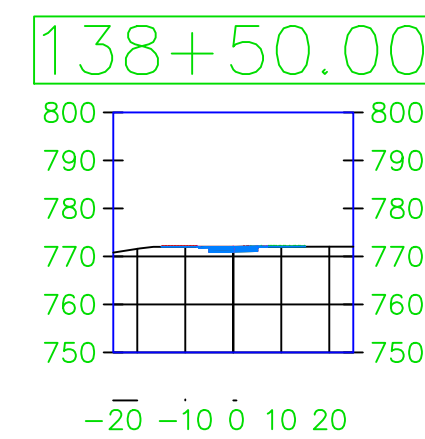
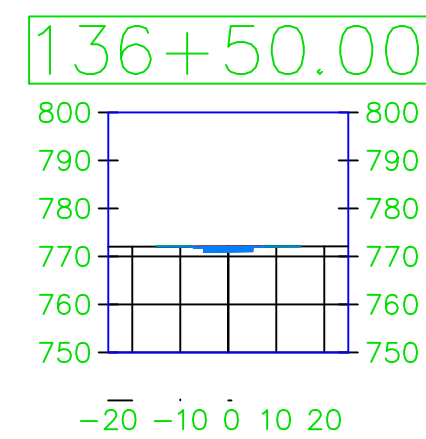
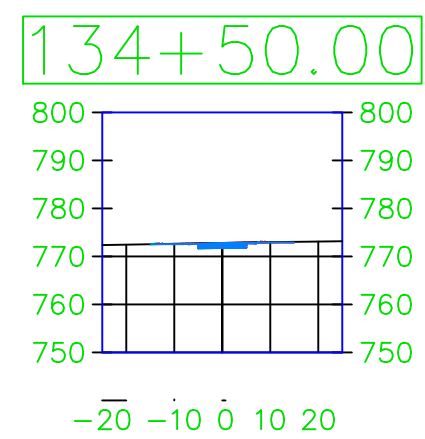
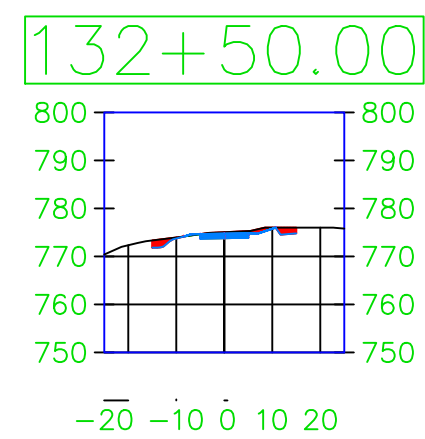
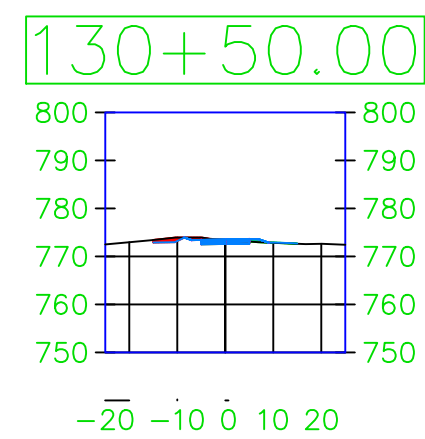
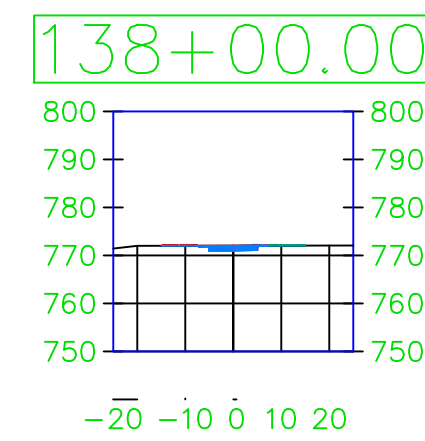
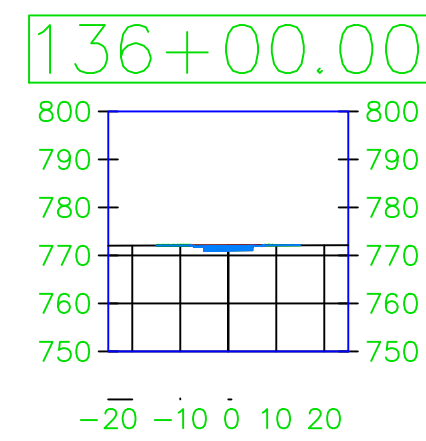
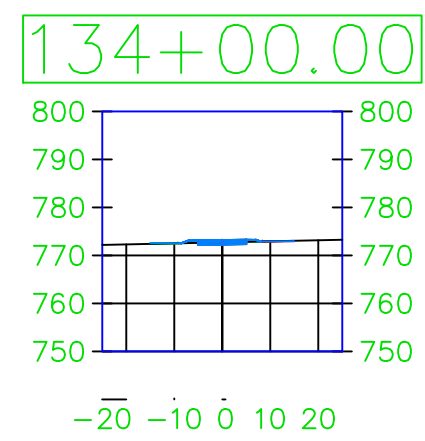
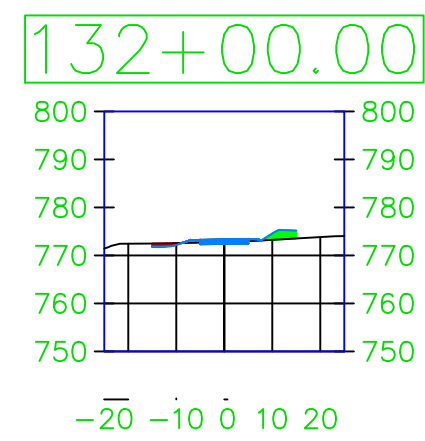
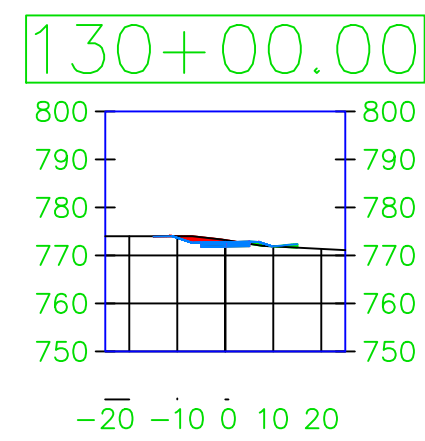
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 4105 SEAMANS CENTER FOR THE
 ENGINEERING ARTS AND SCIENCES
 103 S CAPITOL ST
 IOWA CITY, IOWA 52242
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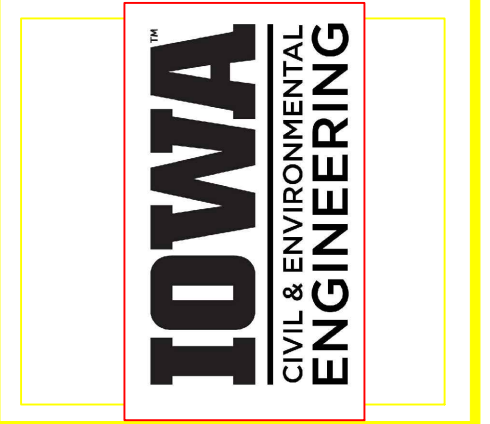
Volga Trail

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SHEET NO.	XX



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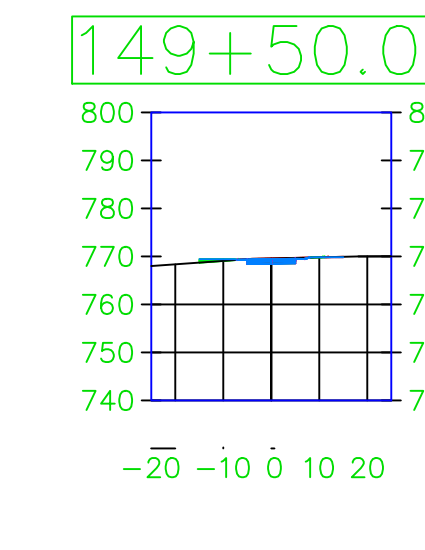
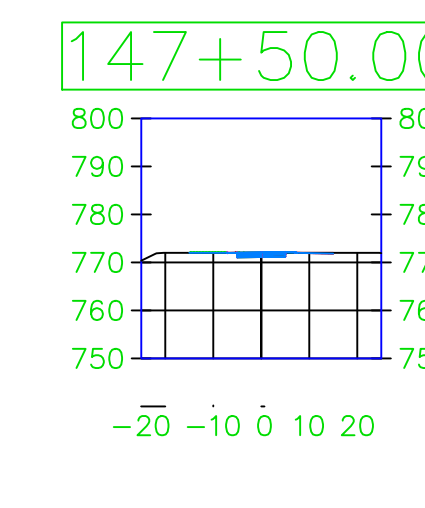
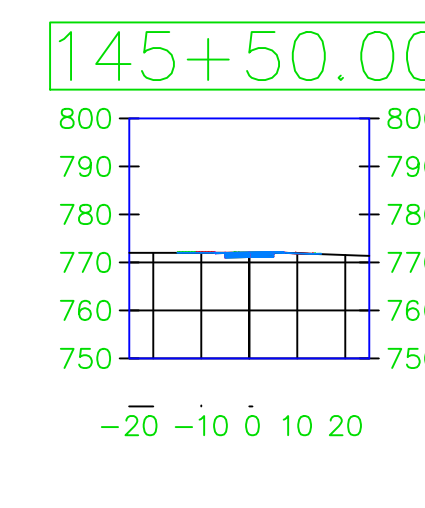
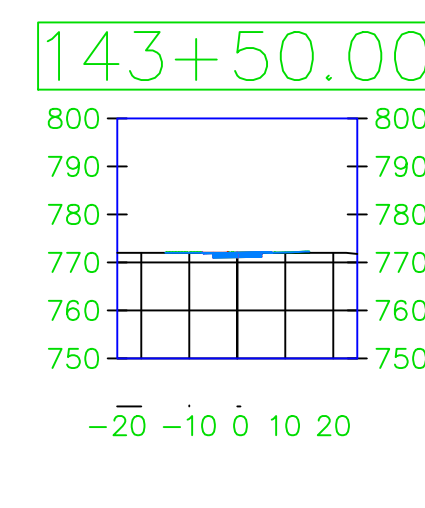
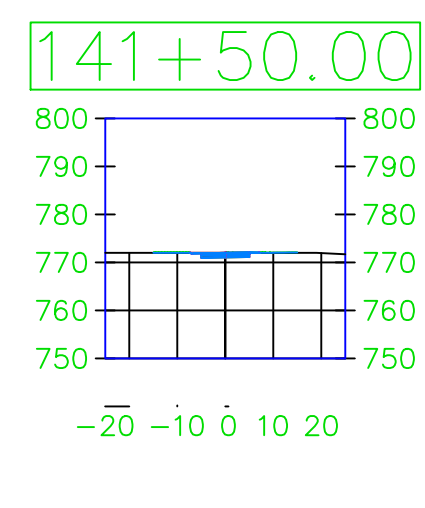
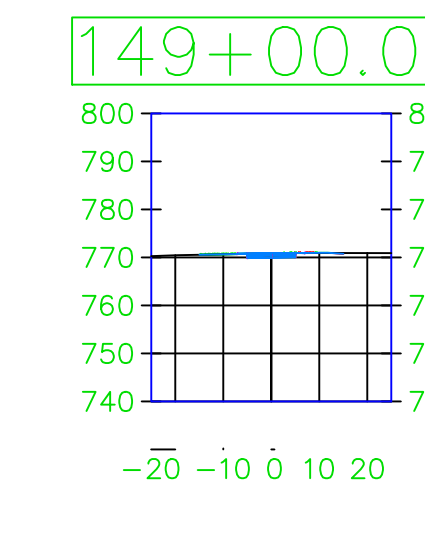
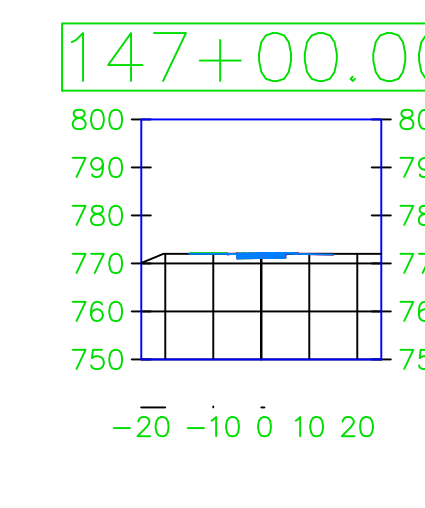
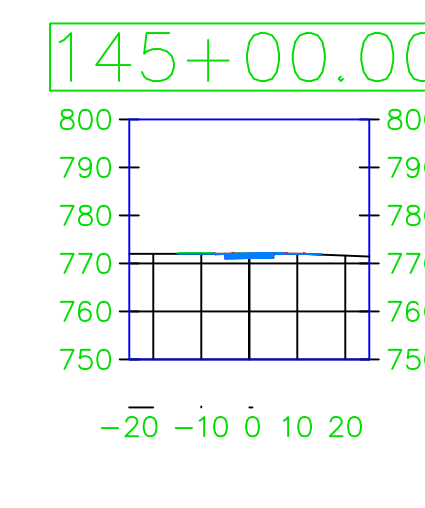
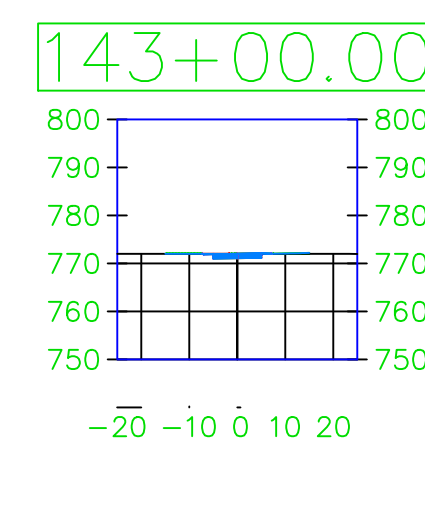
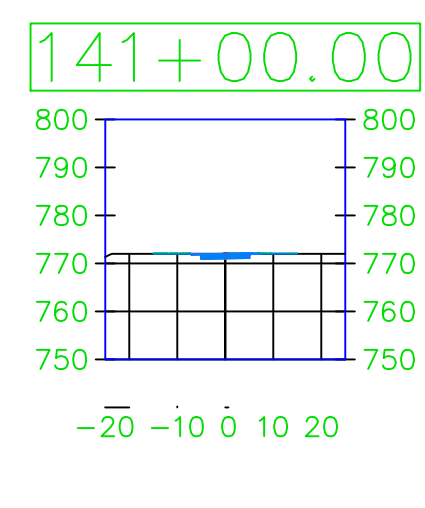
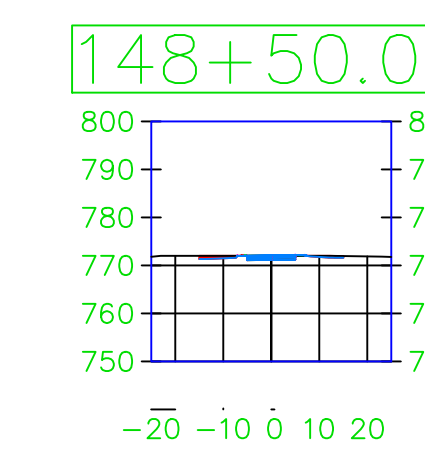
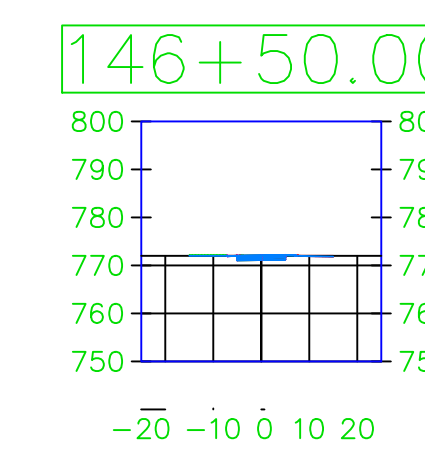
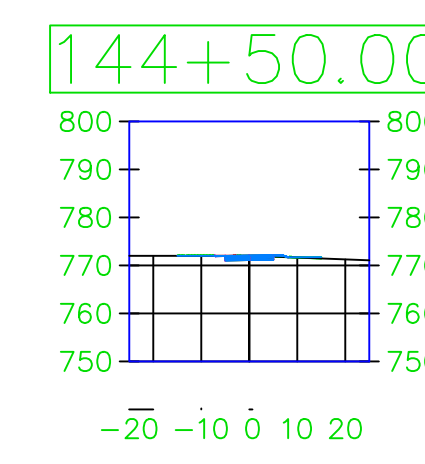
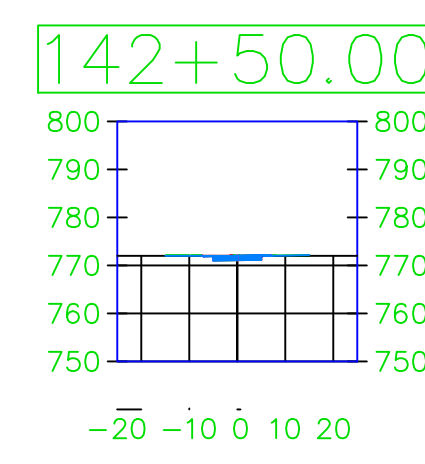
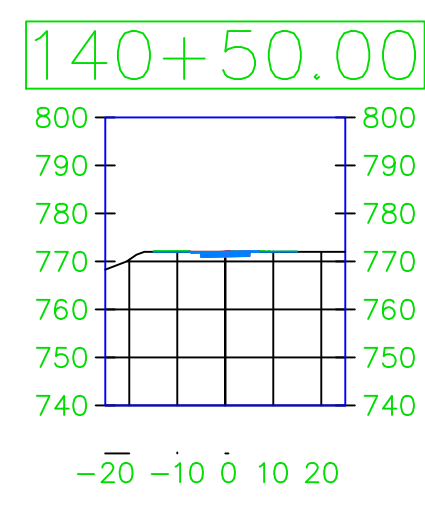
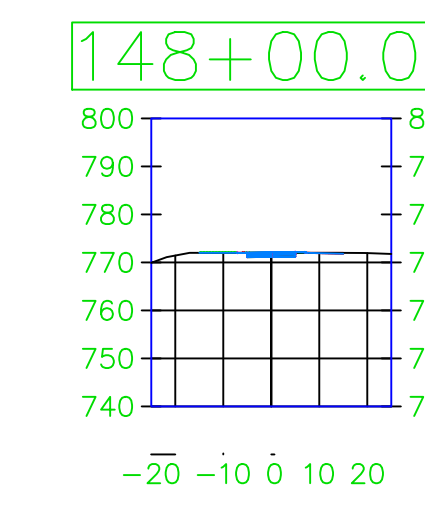
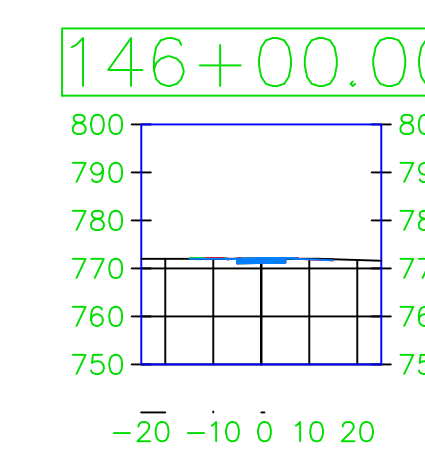
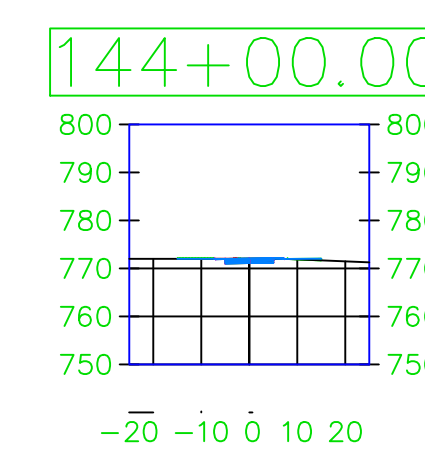
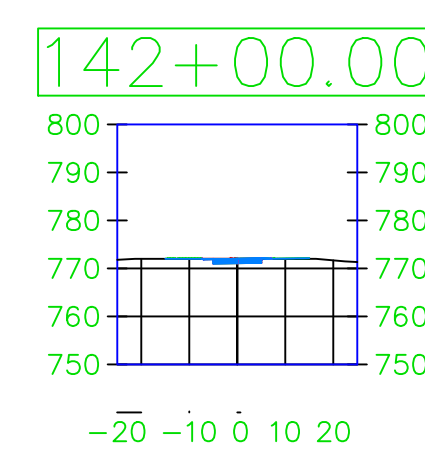
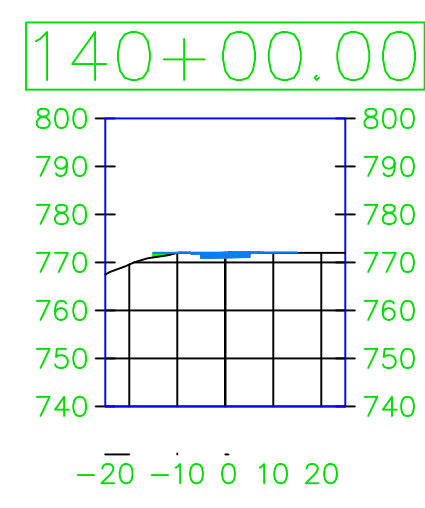


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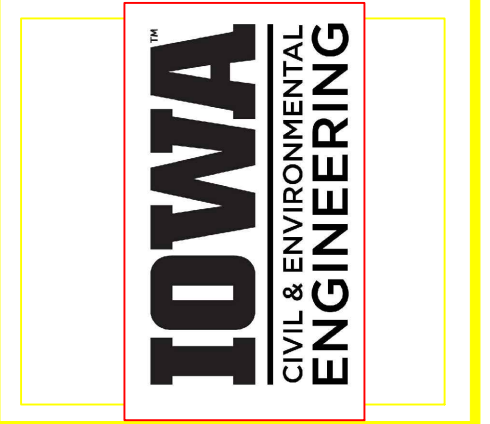
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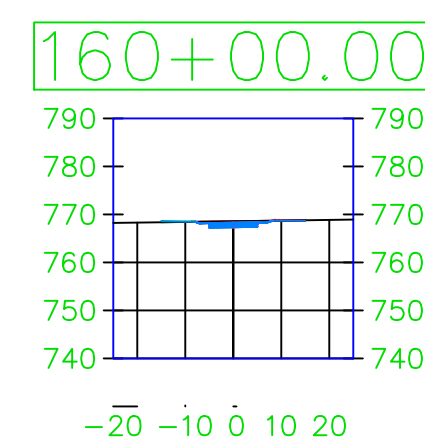
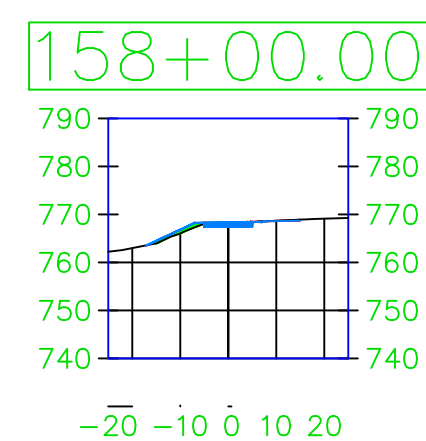
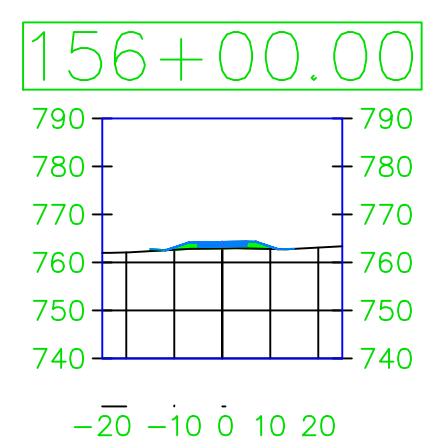
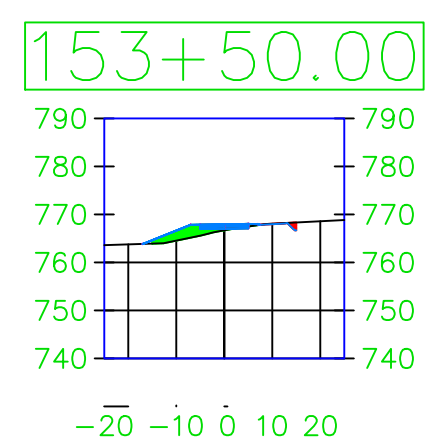
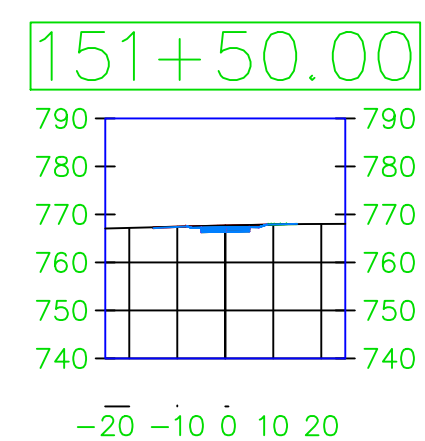
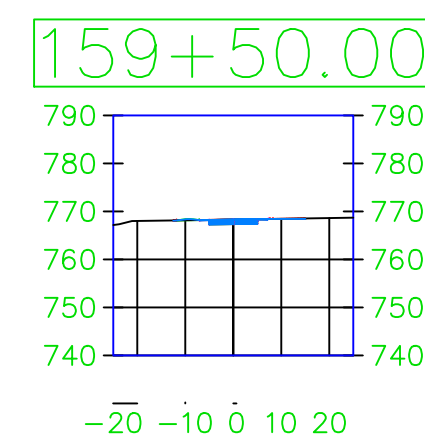
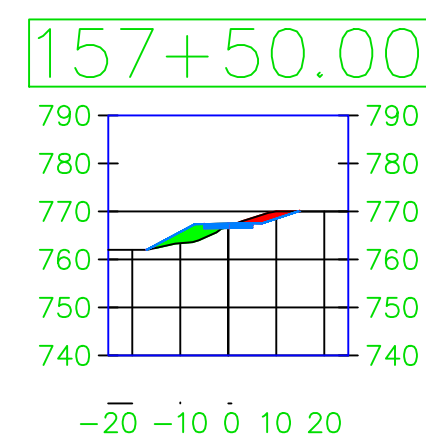
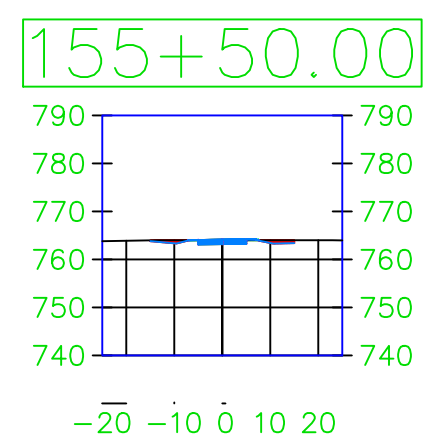
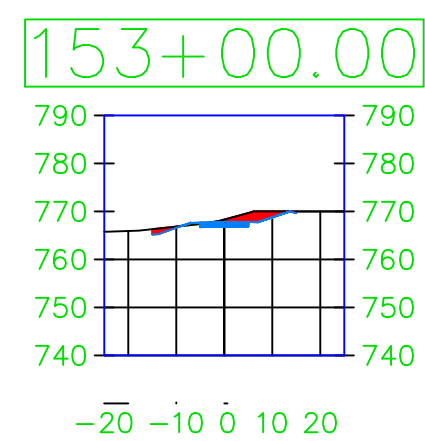
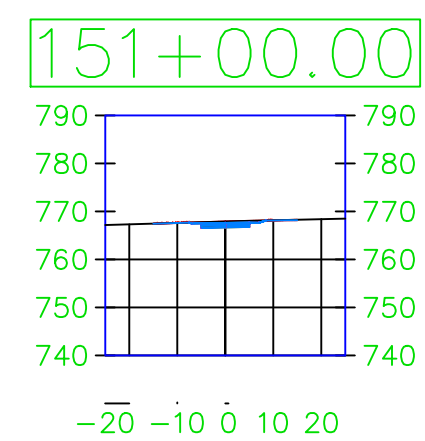
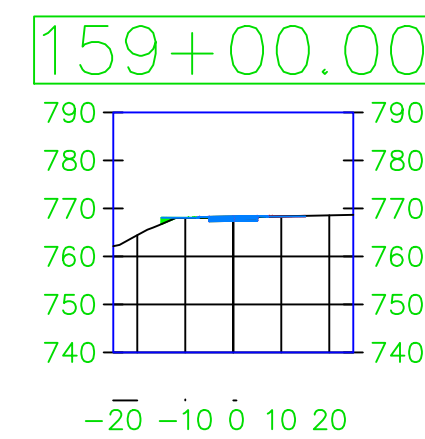
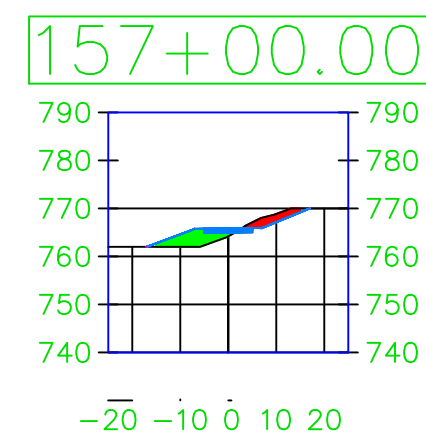
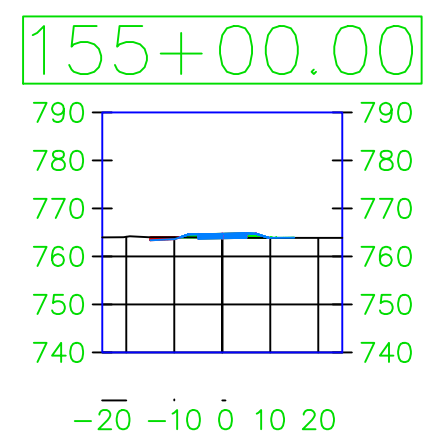
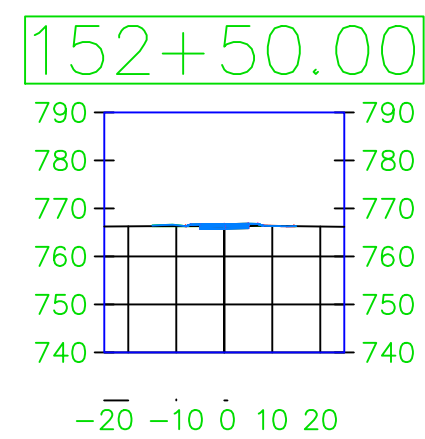
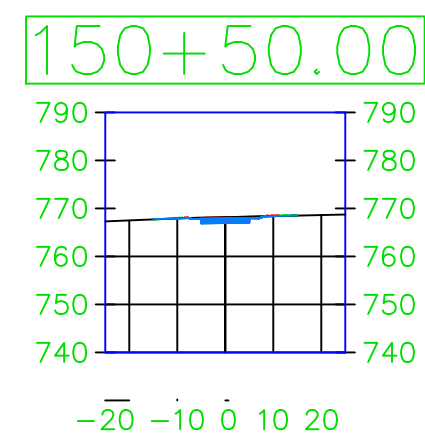
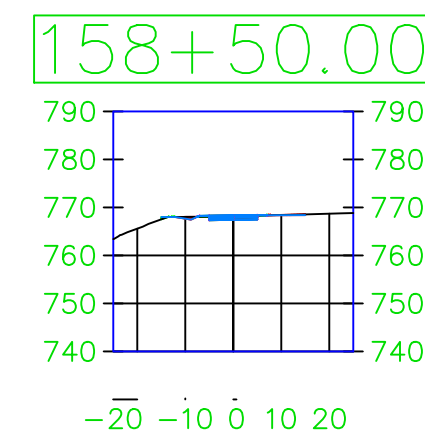
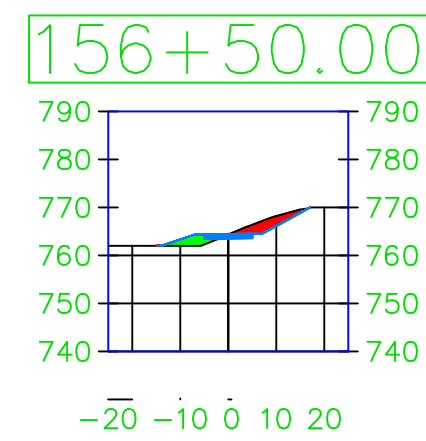
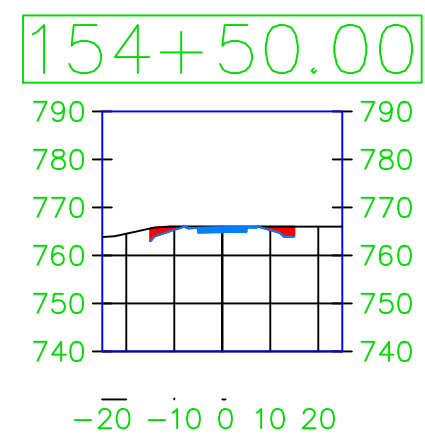
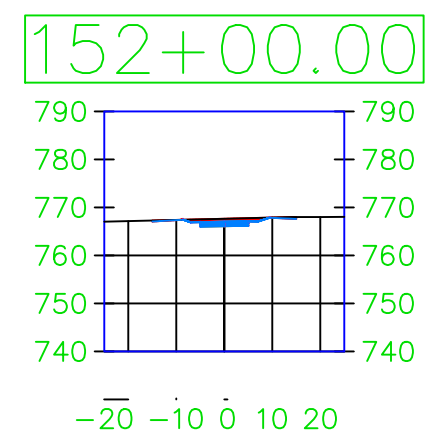
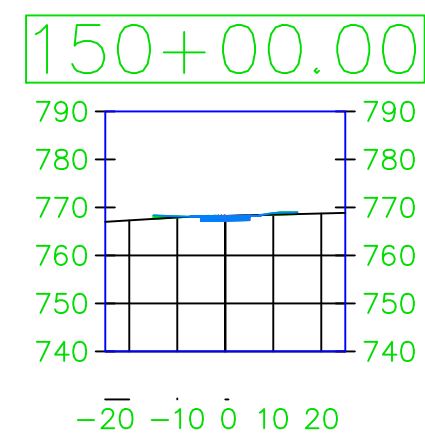


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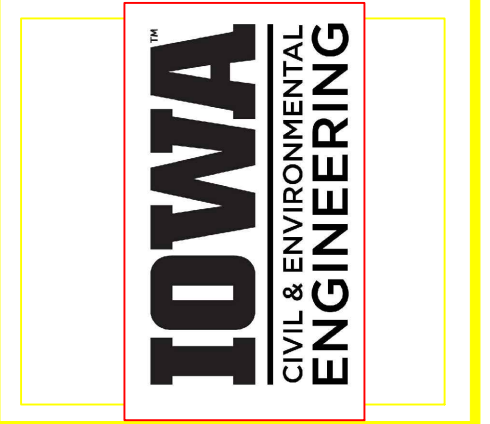
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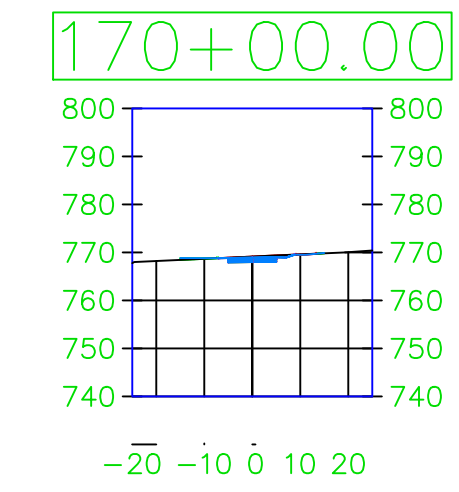
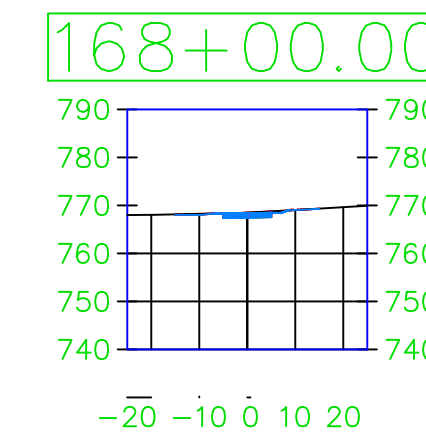
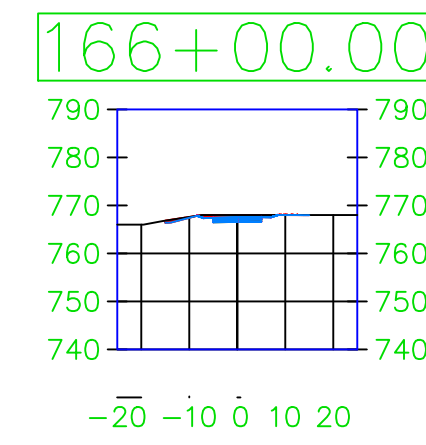
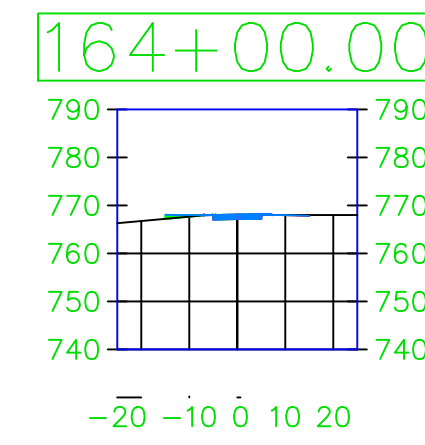
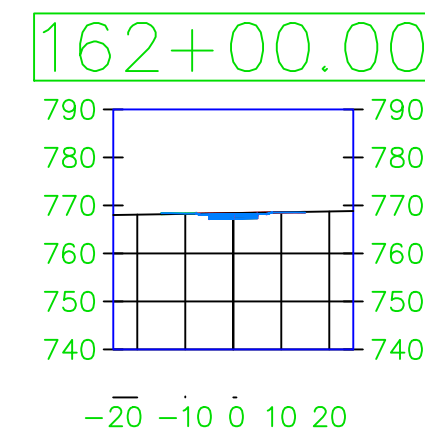
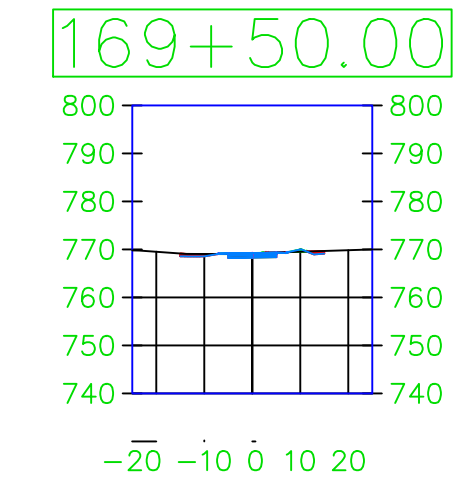
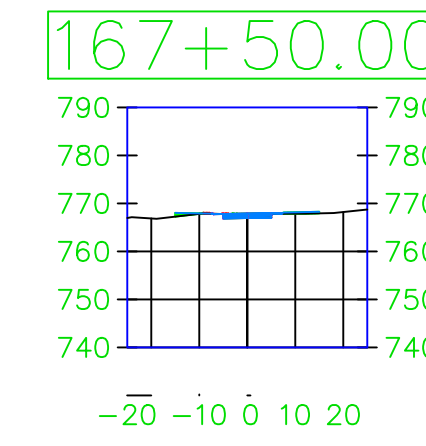
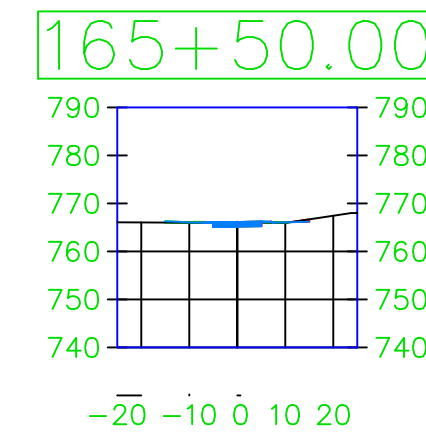
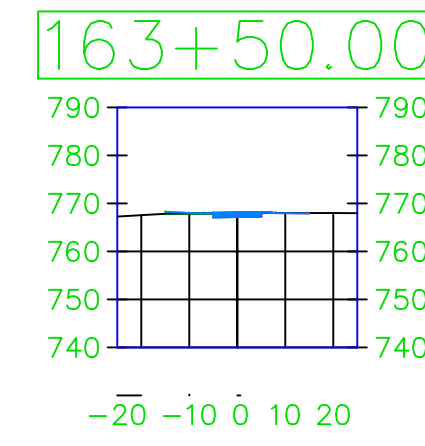
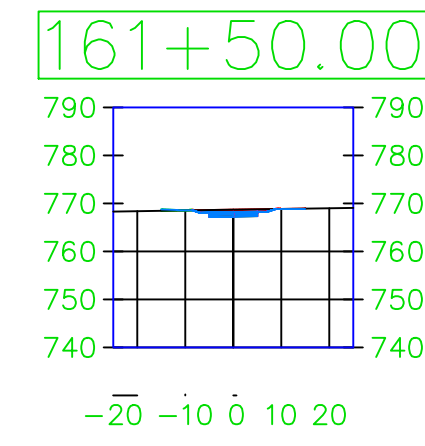
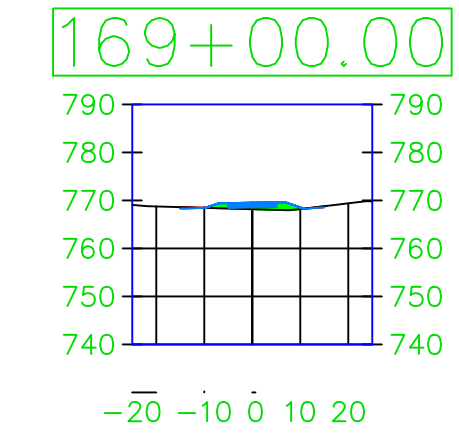
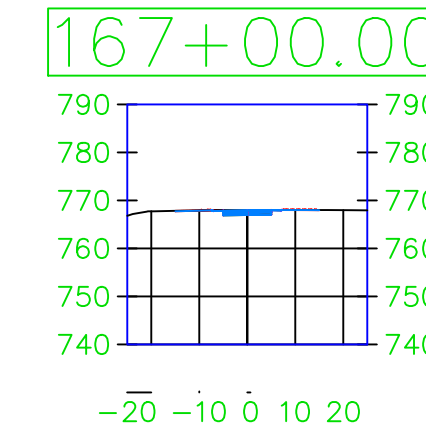
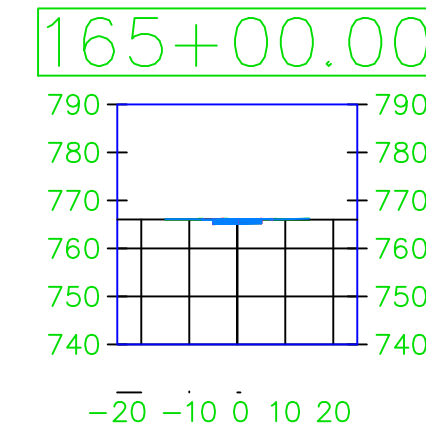
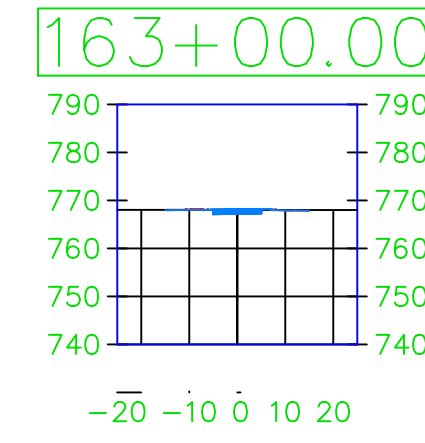
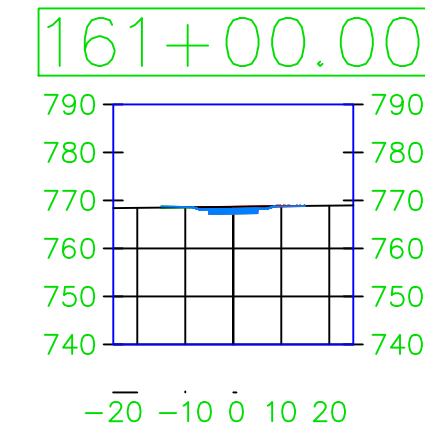
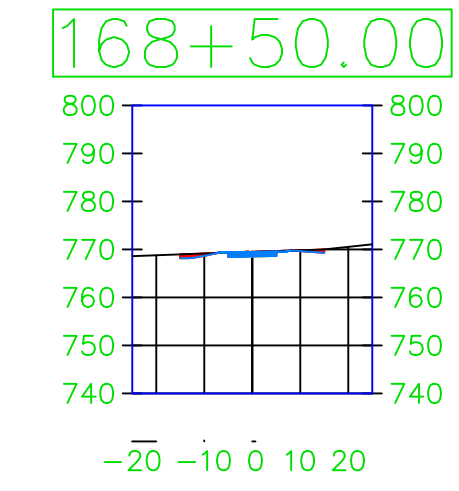
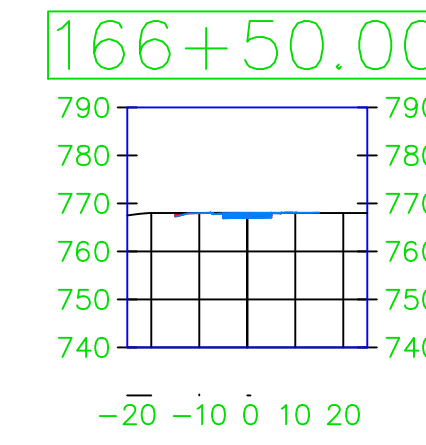
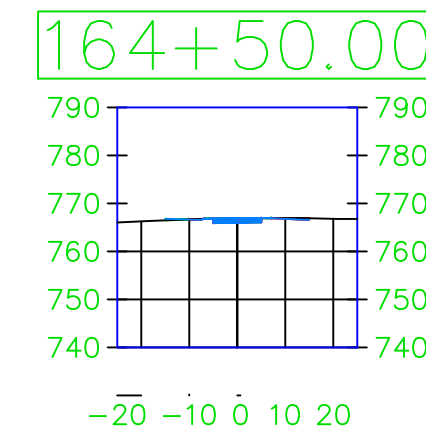
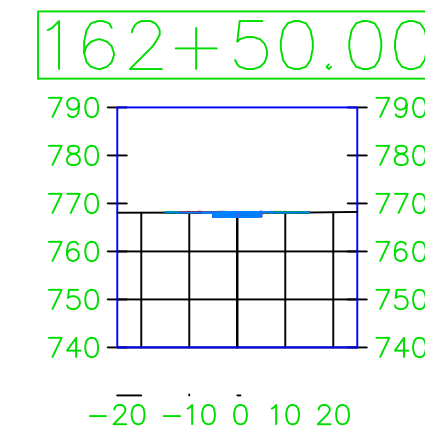
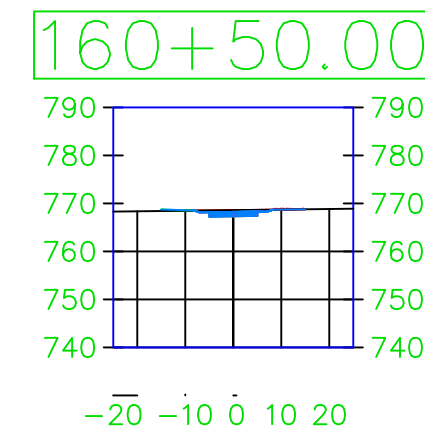


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Volga Trail

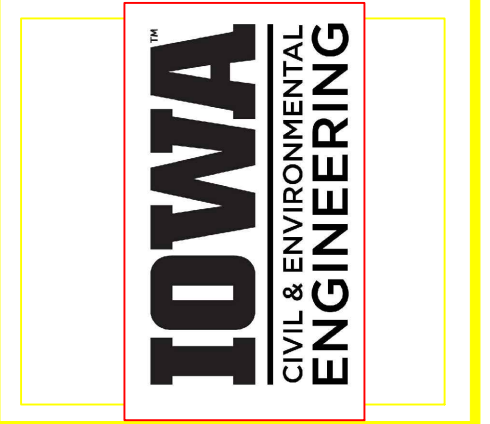
SHEET NAME
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XX



PROJECT:	CEE: 4850
DATE :	4/17/2020
DRAWN BY:	cds
REVISION:	

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 4105 SEAMANS CENTER FOR THE
 ENGINEERING ARTS AND SCIENCES
 103 S CAPITOL ST
 IOWA CITY, IOWA 52242
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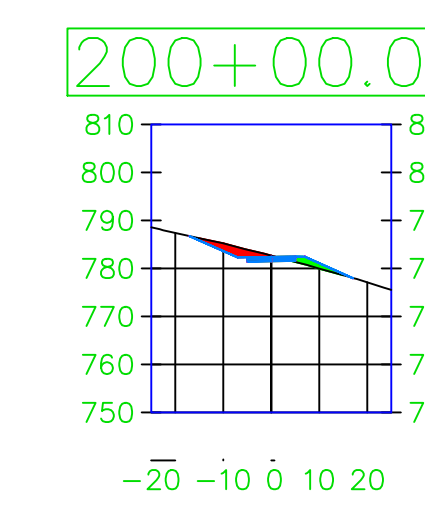
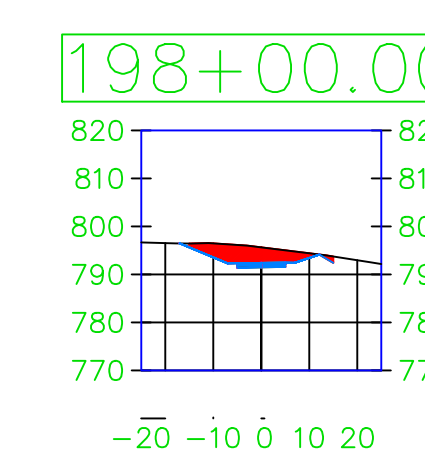
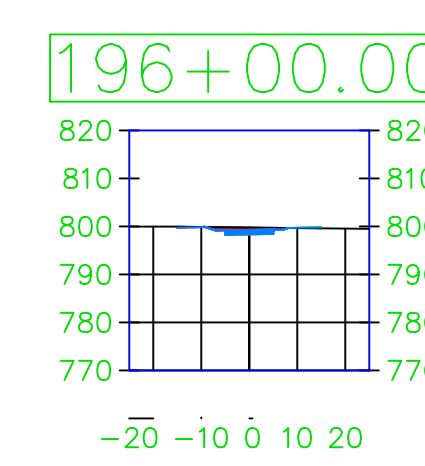
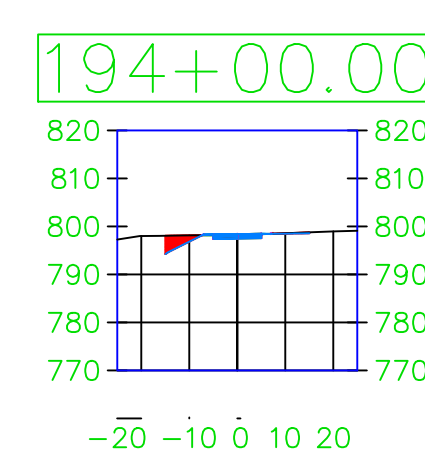
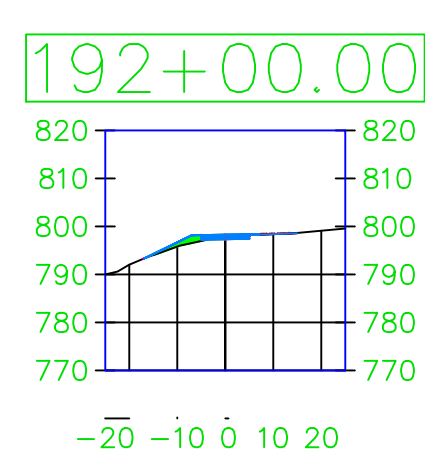
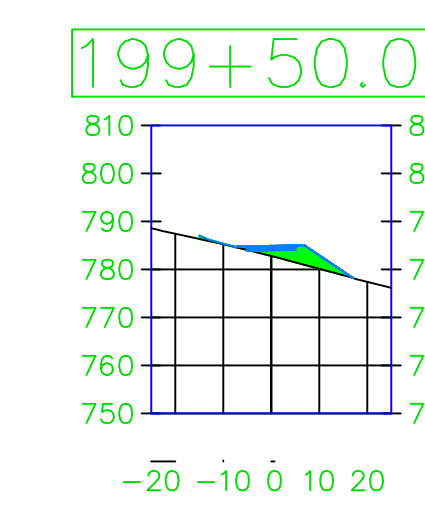
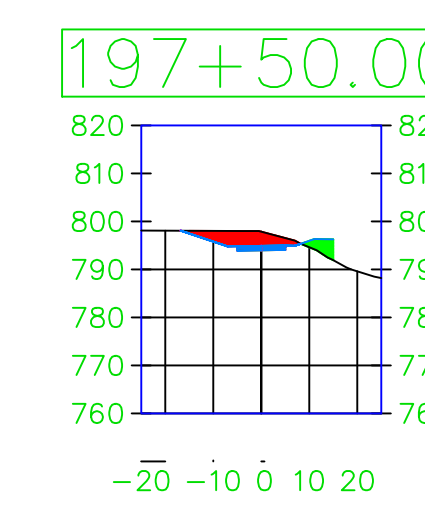
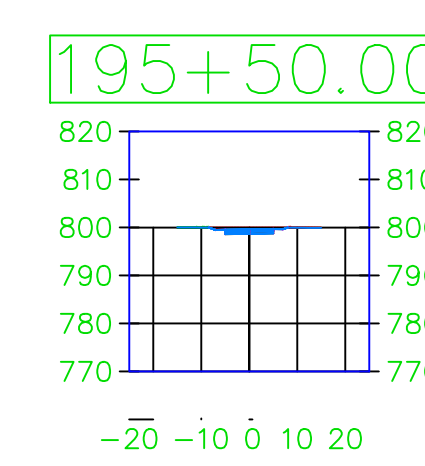
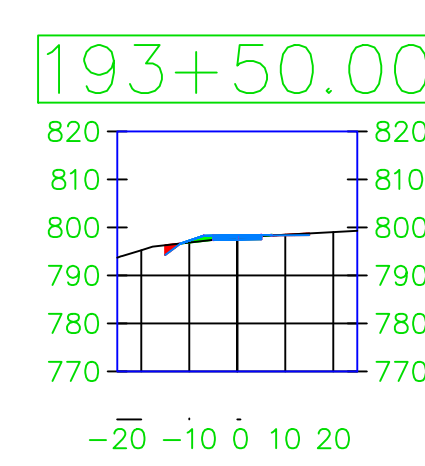
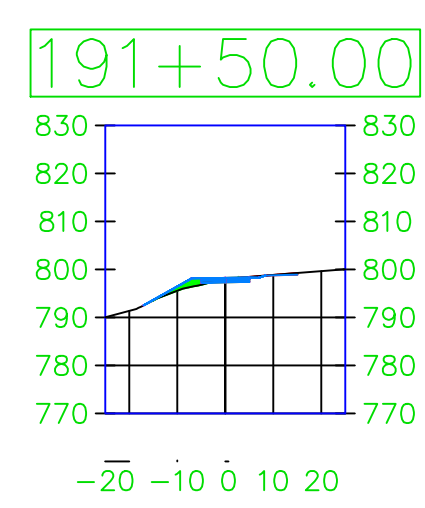
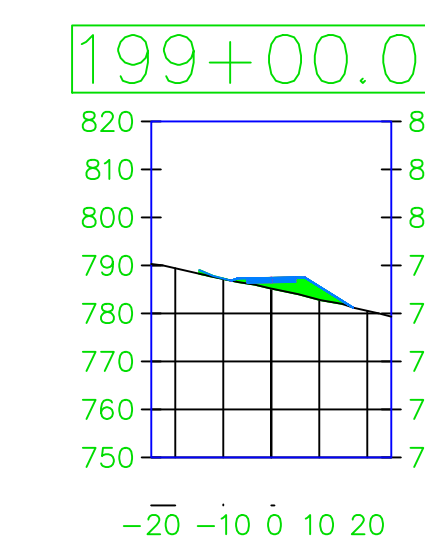
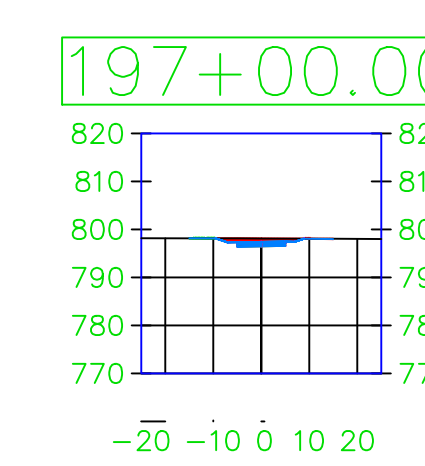
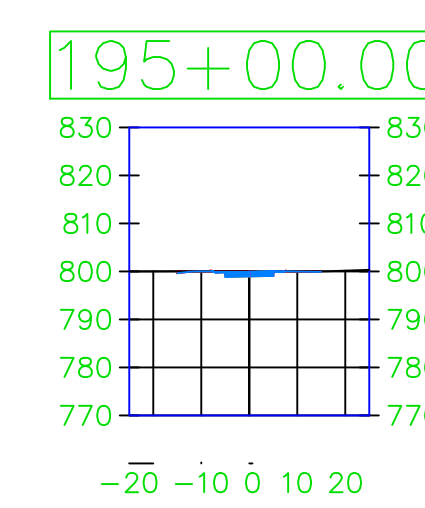
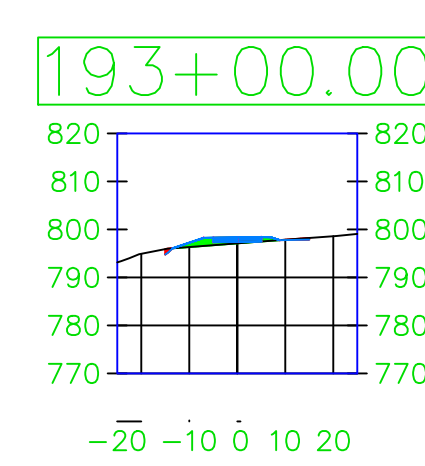
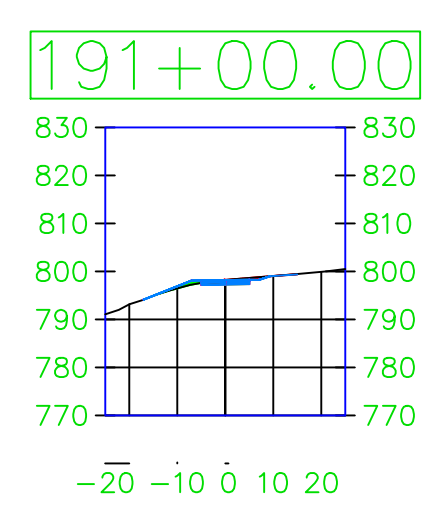
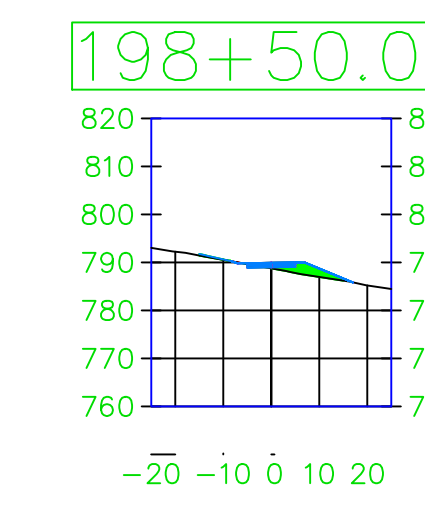
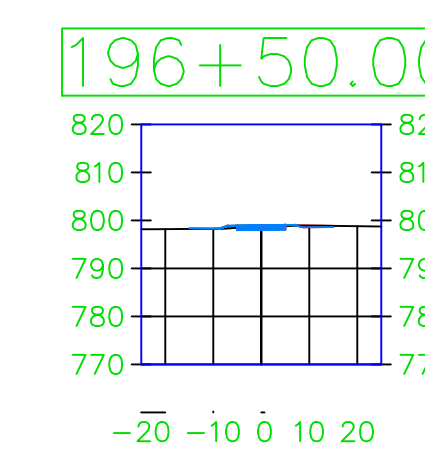
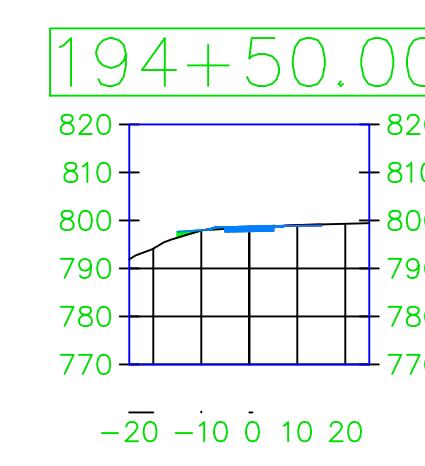
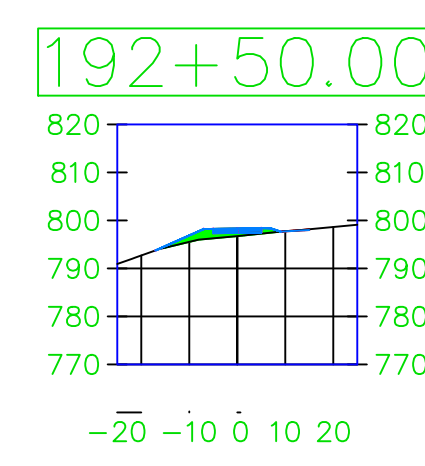
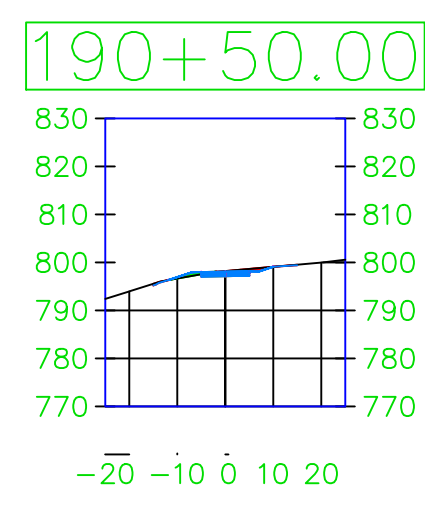


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Volga Trail

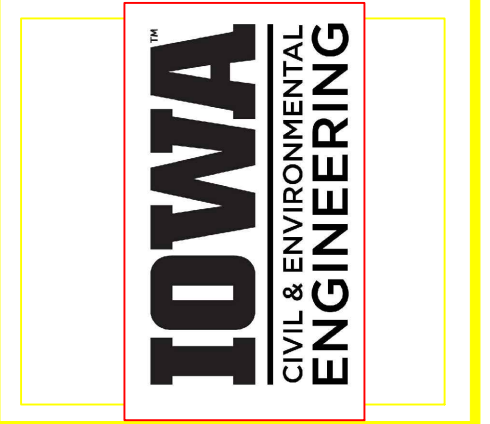
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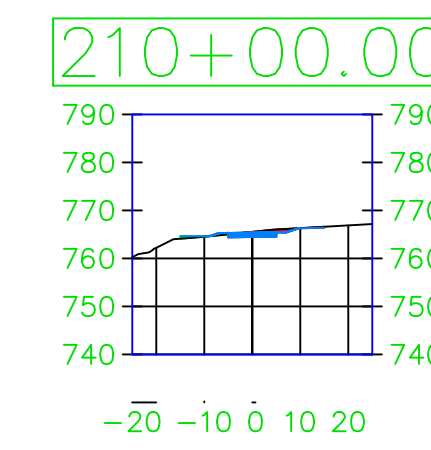
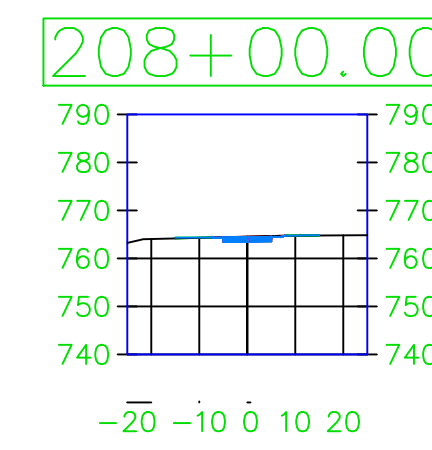
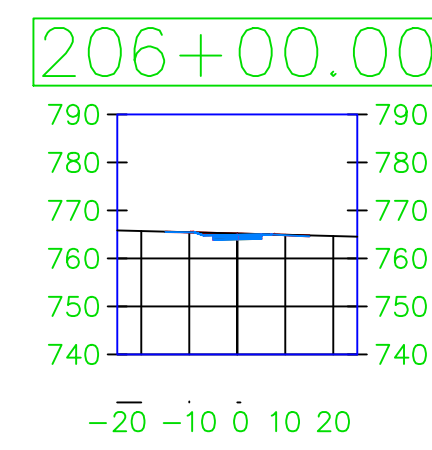
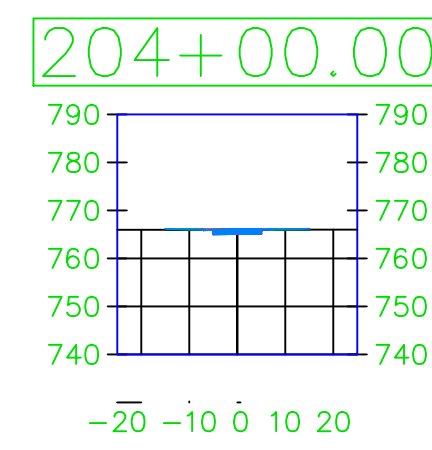
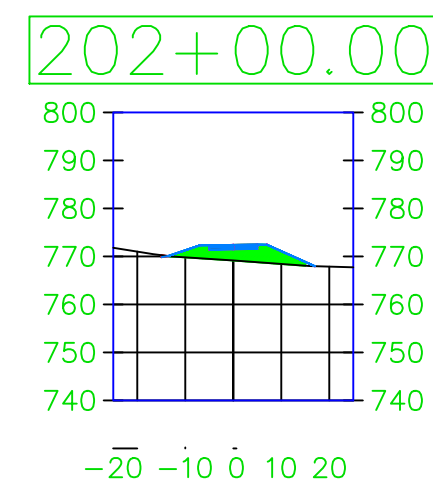
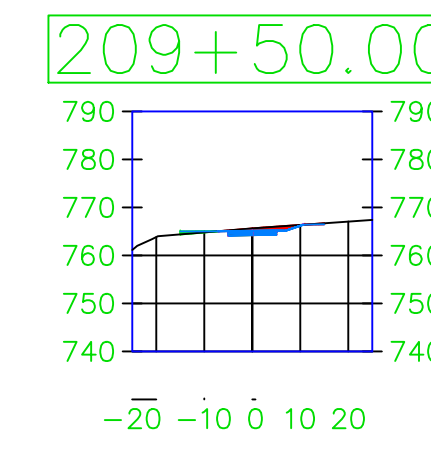
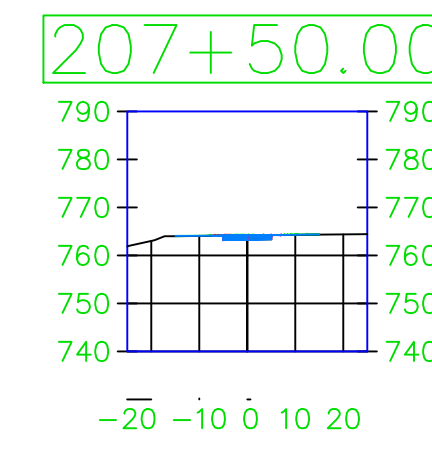
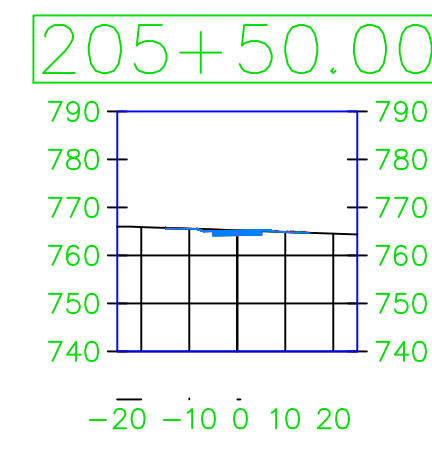
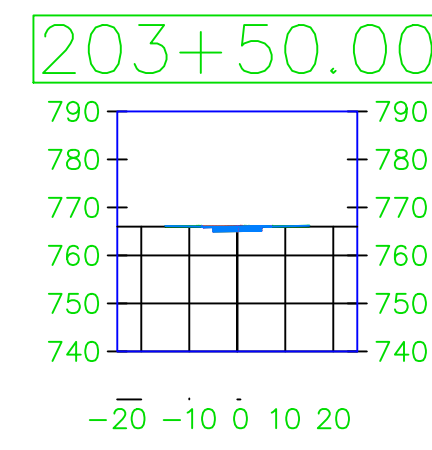
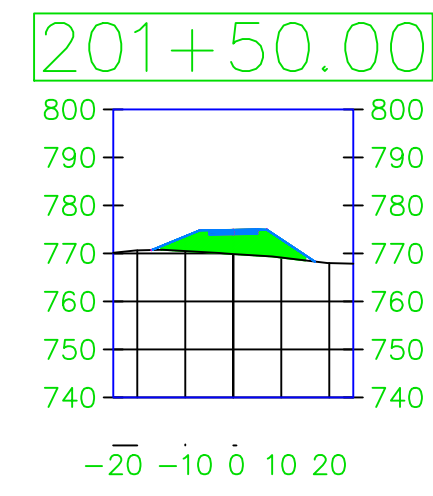
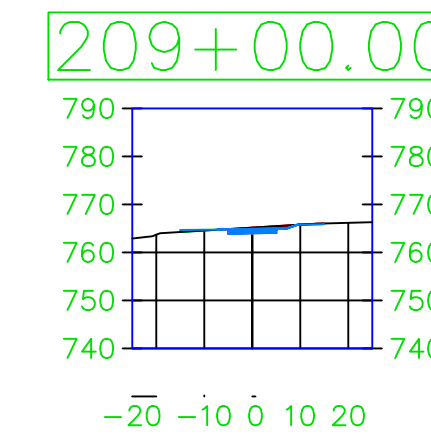
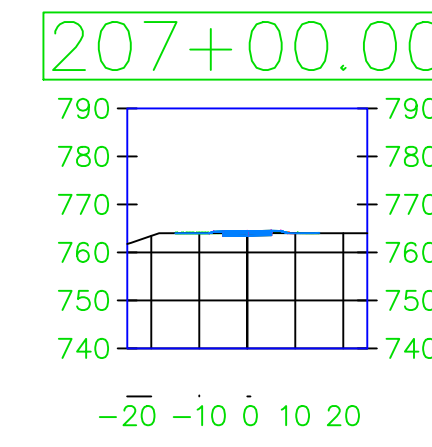
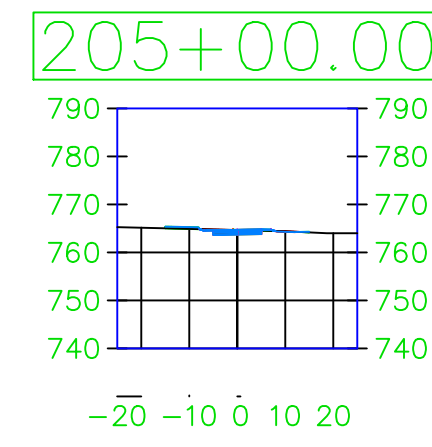
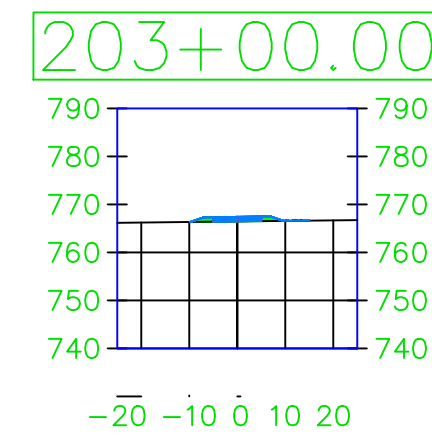
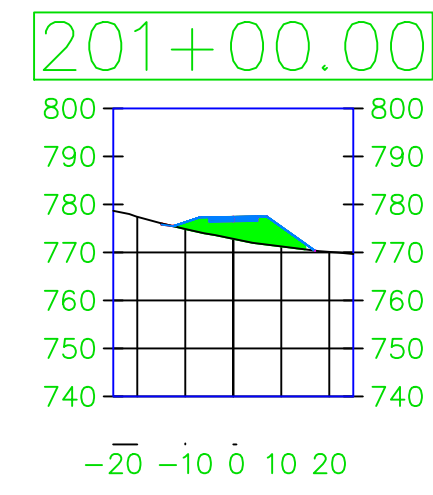
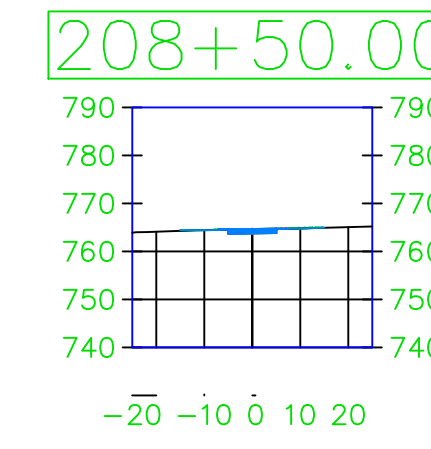
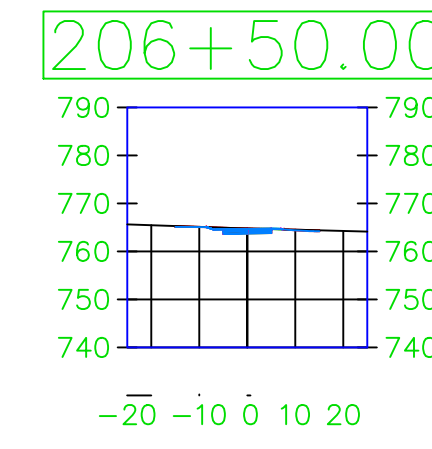
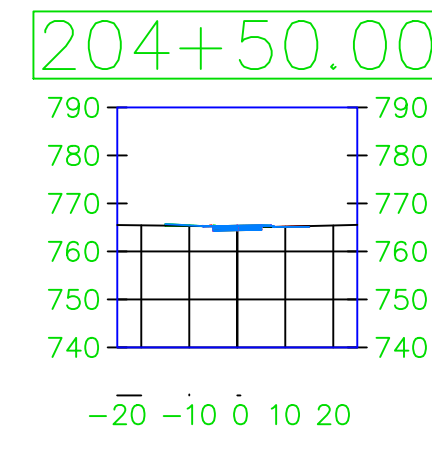
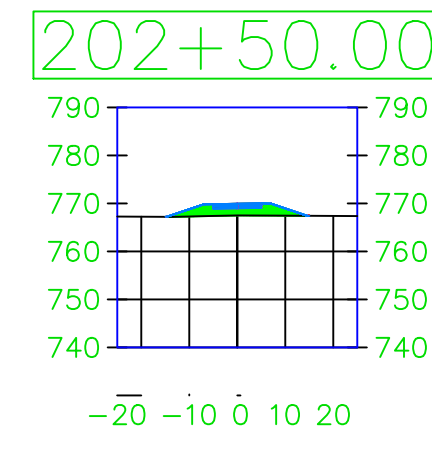
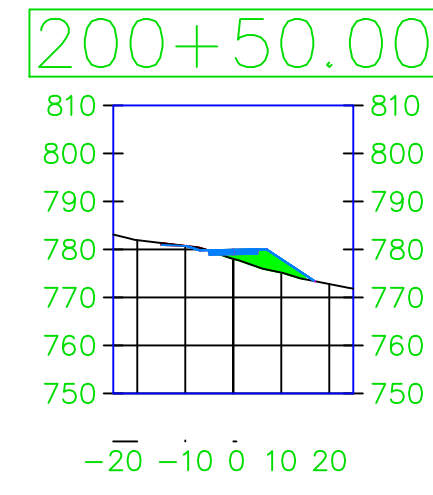


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Volga Trail

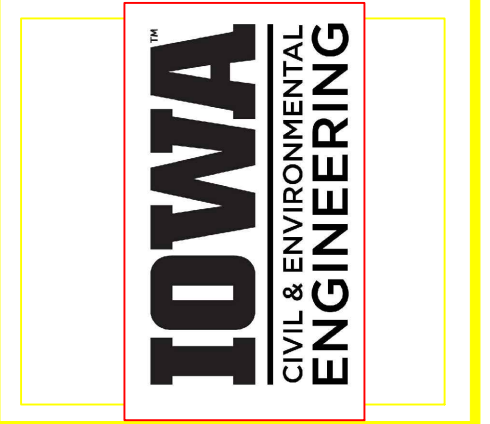
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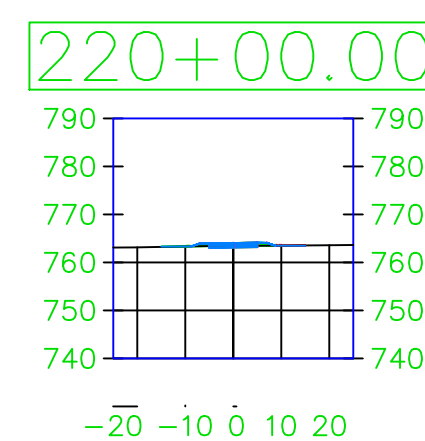
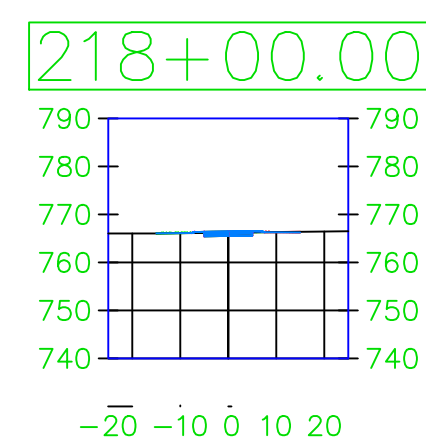
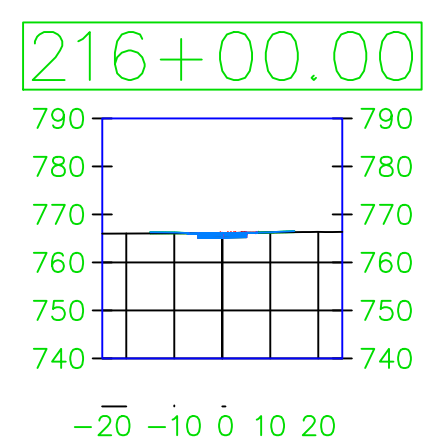
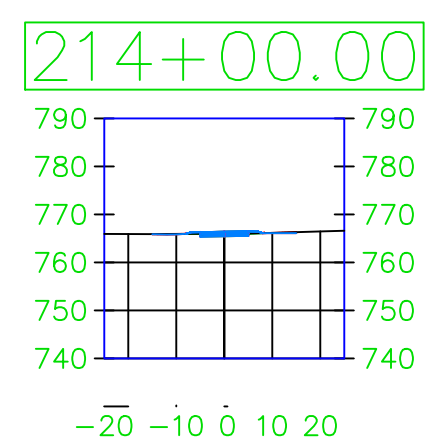
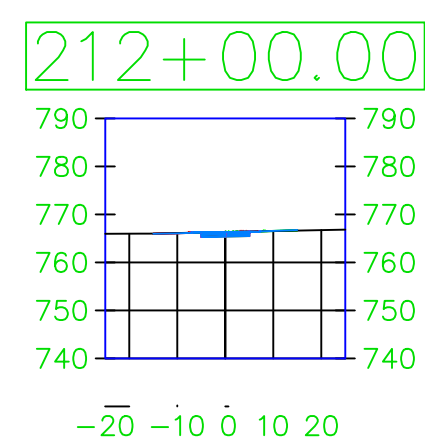
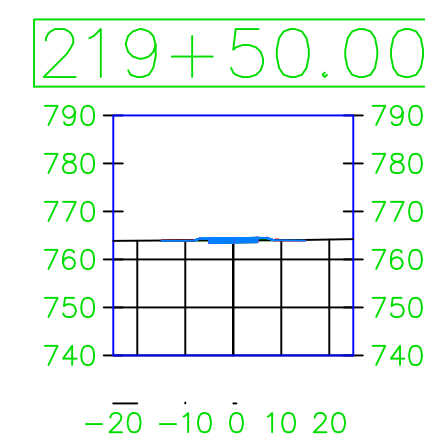
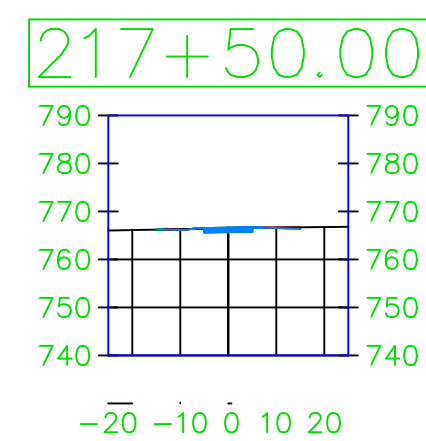
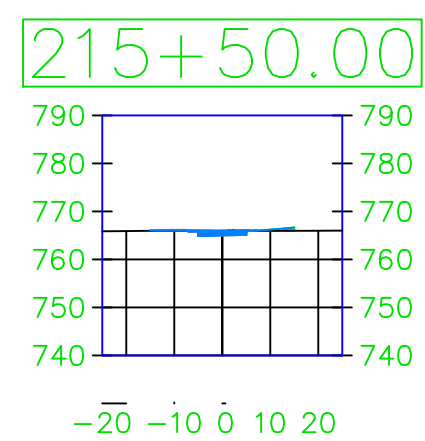
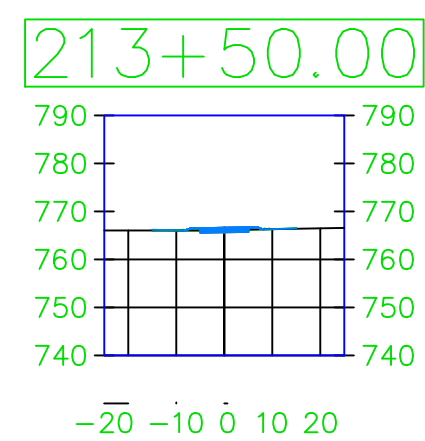
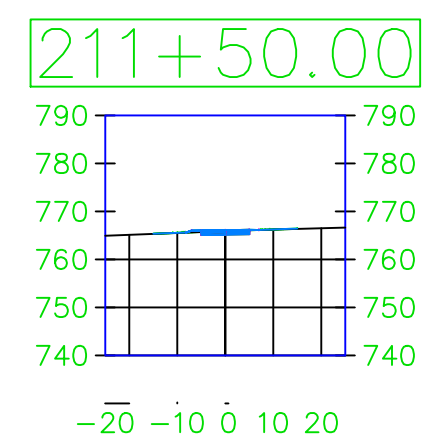
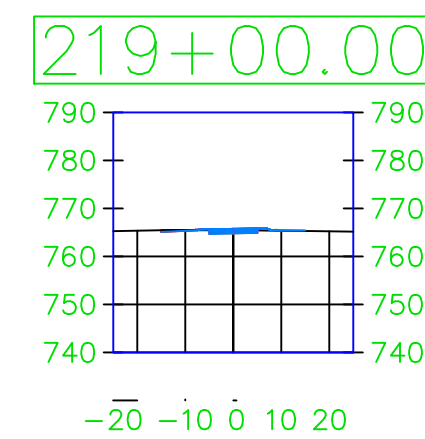
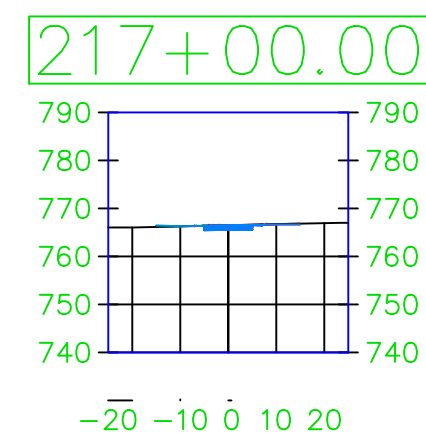
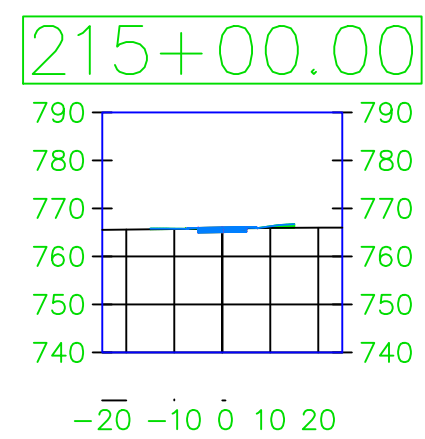
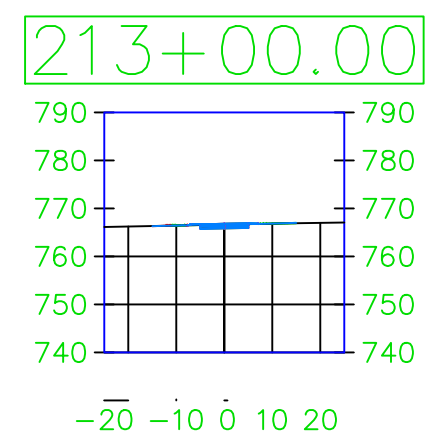
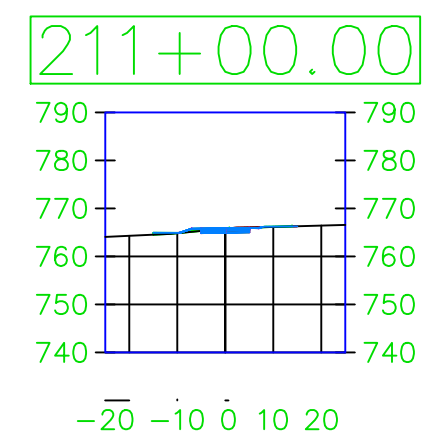
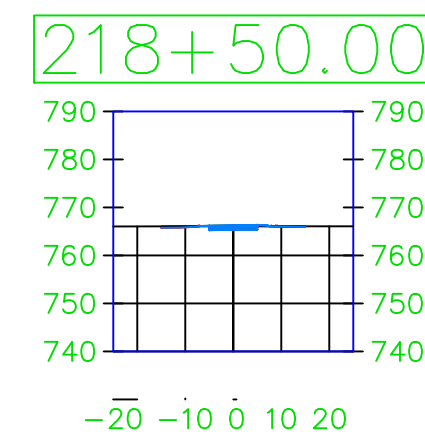
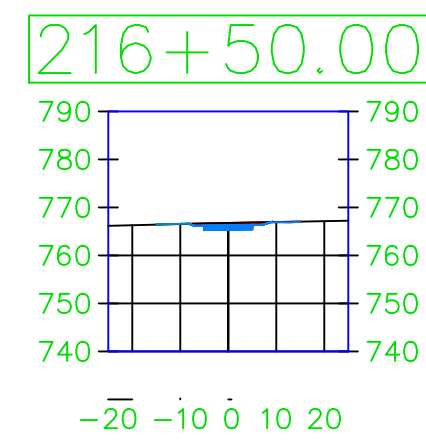
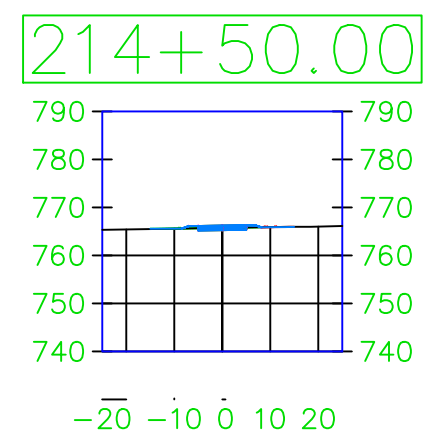
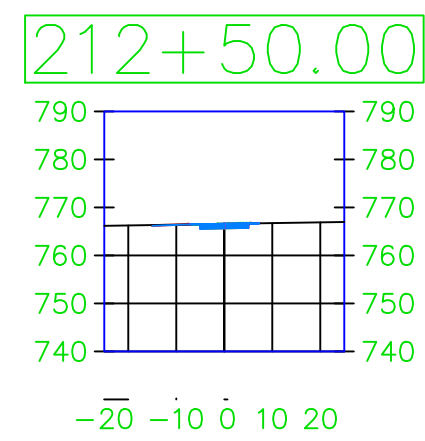
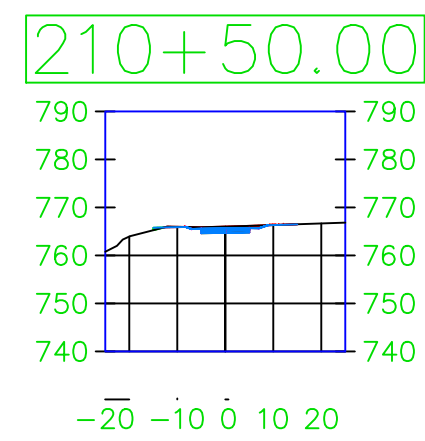


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Volga Trail

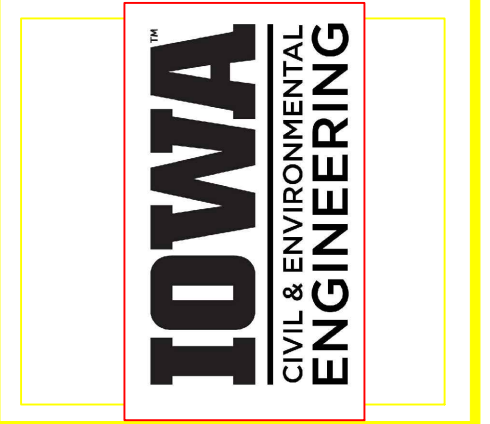
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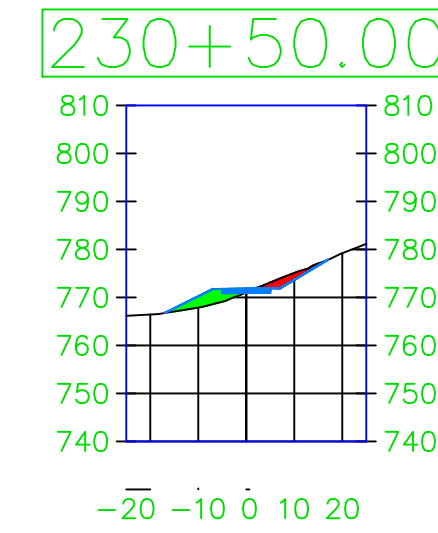
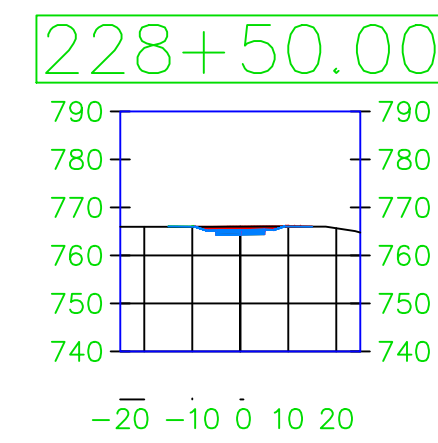
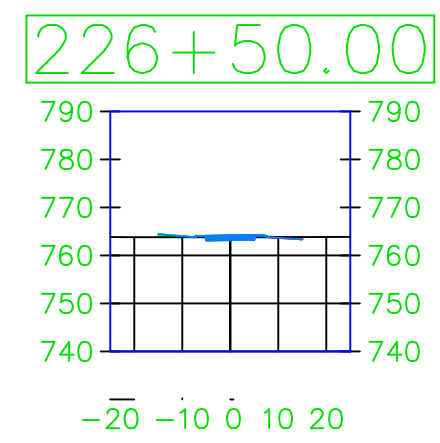
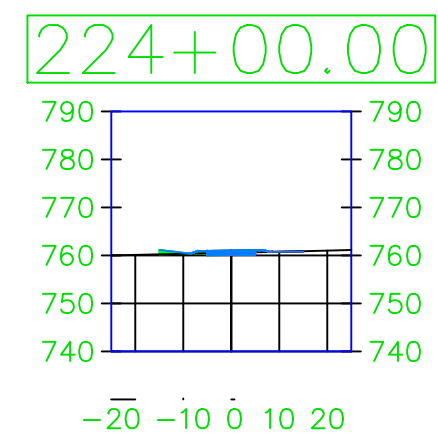
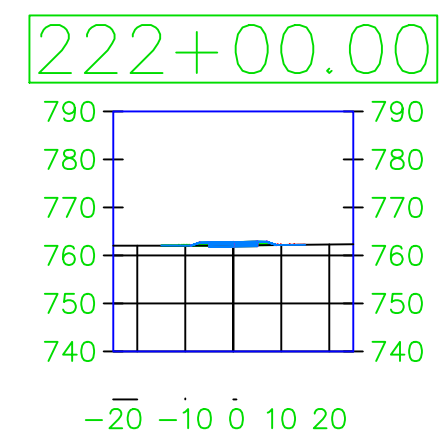
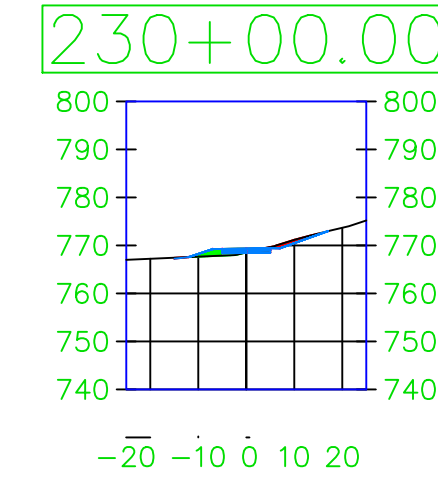
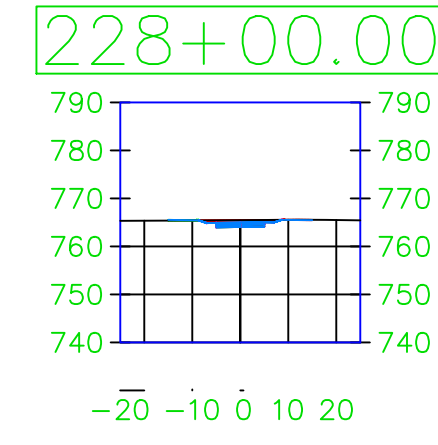
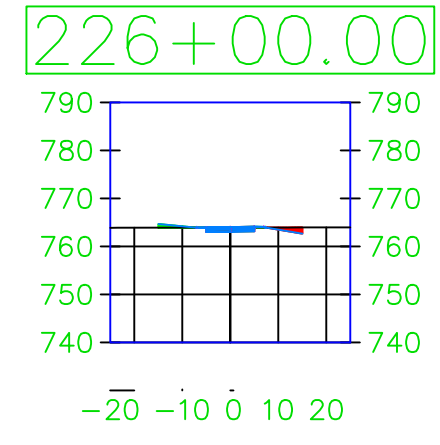
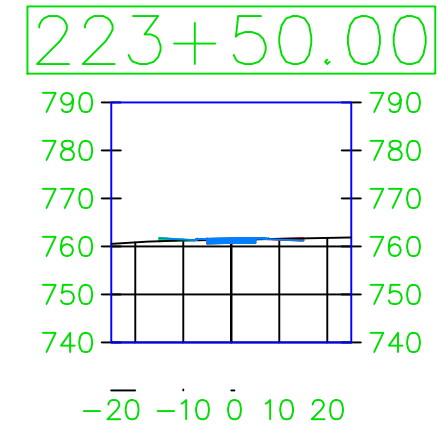
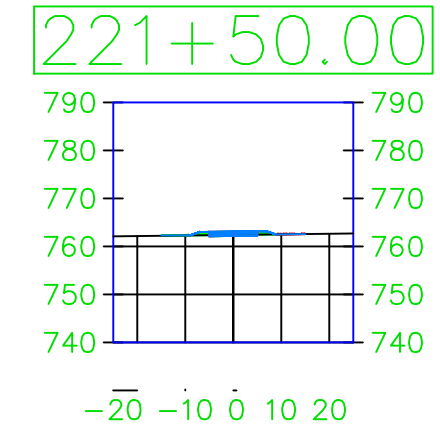
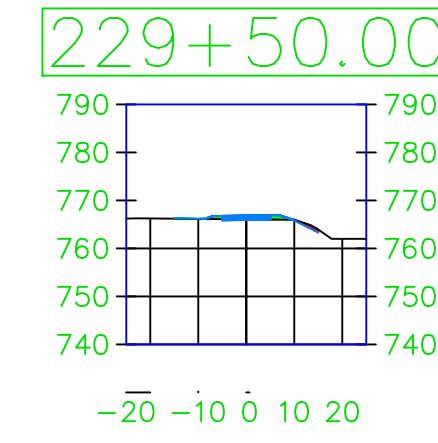
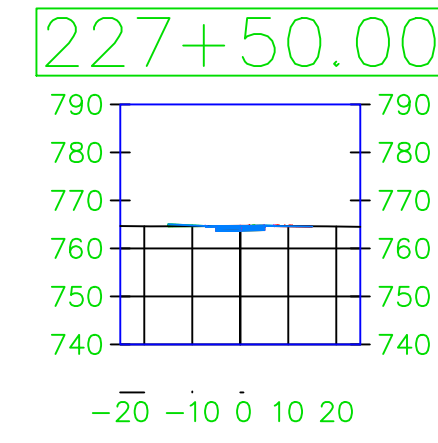
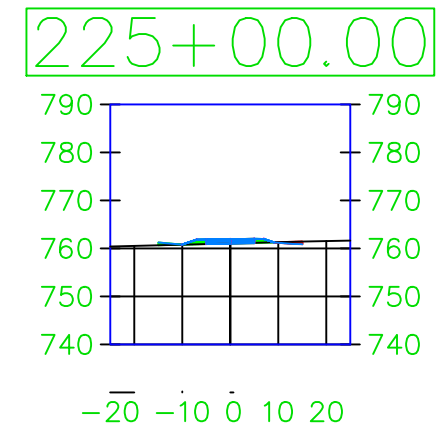
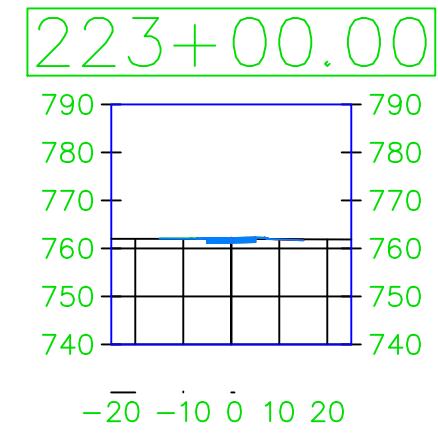
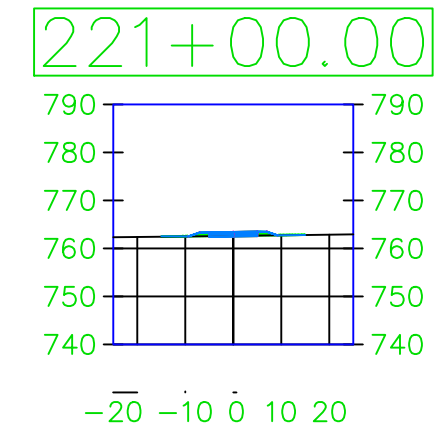
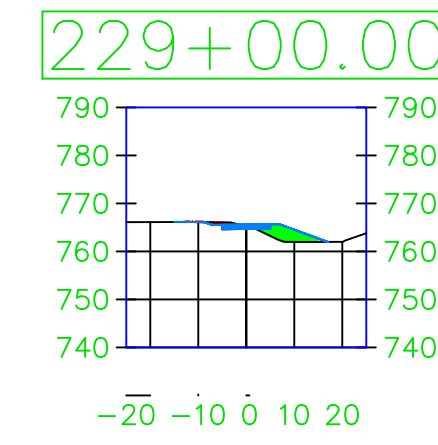
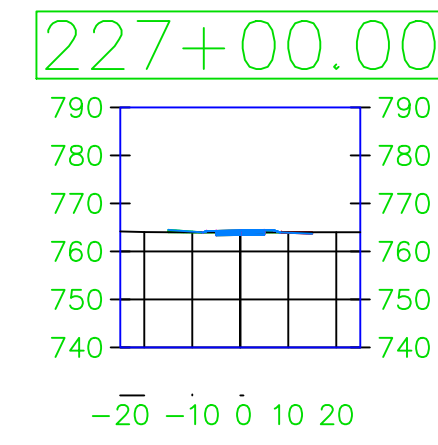
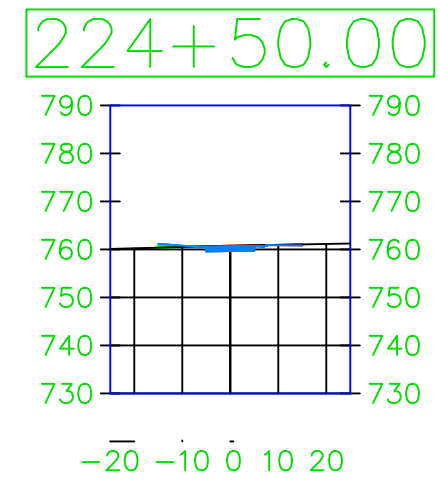
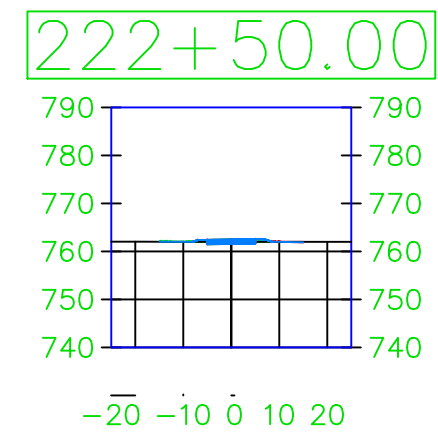
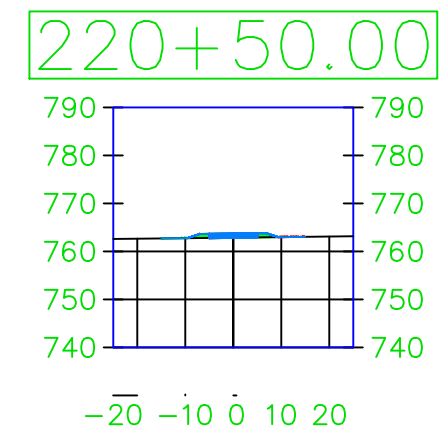


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Volga Trail

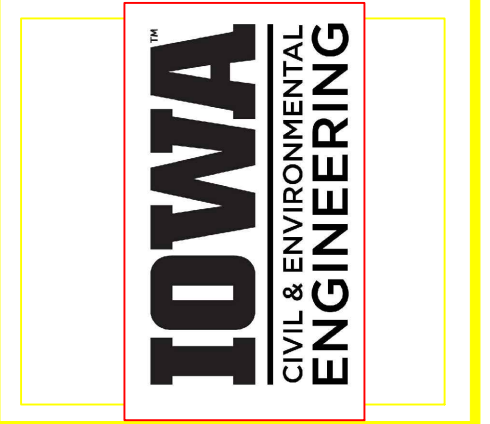
SHEET NAME
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XX



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DATE :	4/17/2020
DRAWN BY:	cds
REVISION:	

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 4105 SEAMANS CENTER FOR THE
 ENGINEERING ARTS AND SCIENCES
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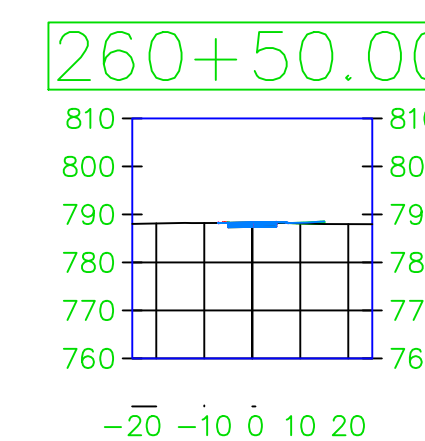
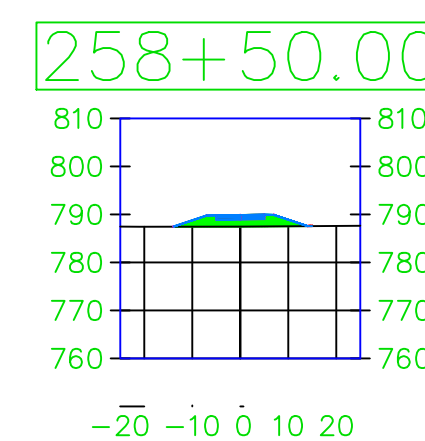
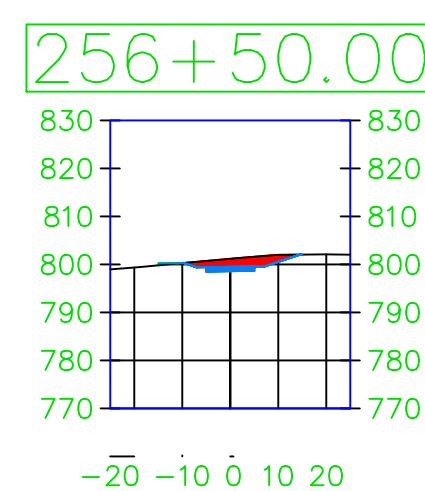
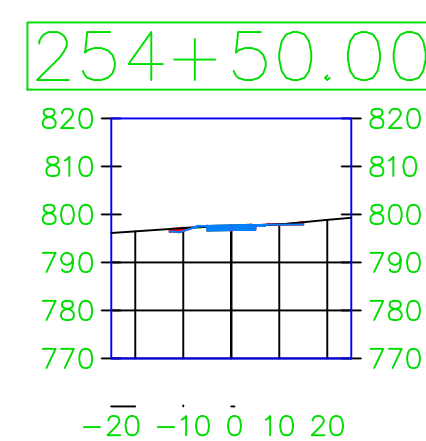
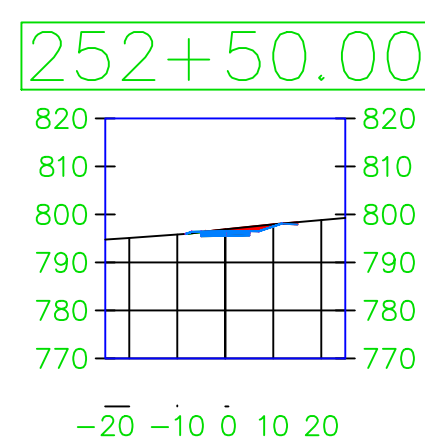
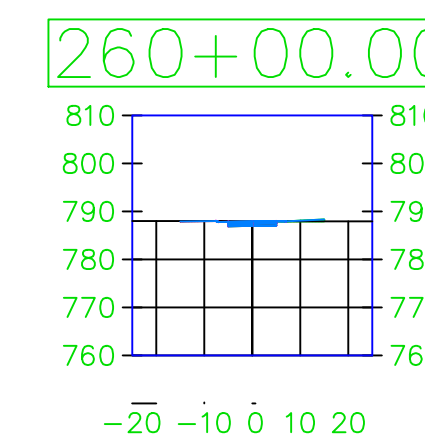
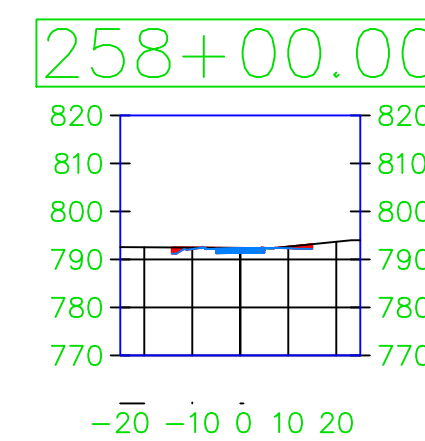
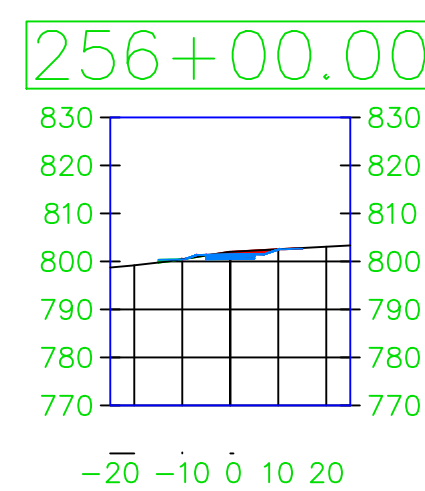
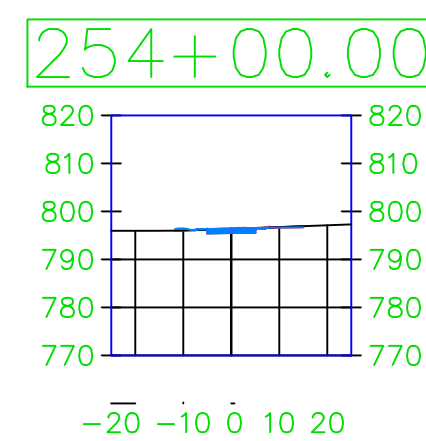
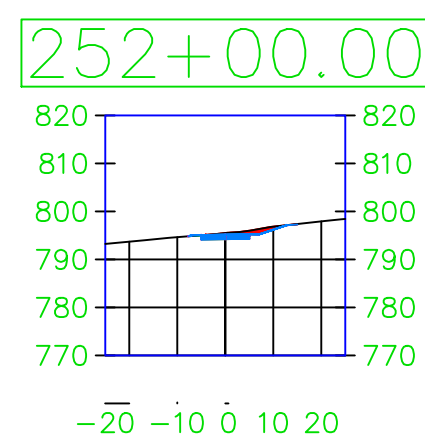
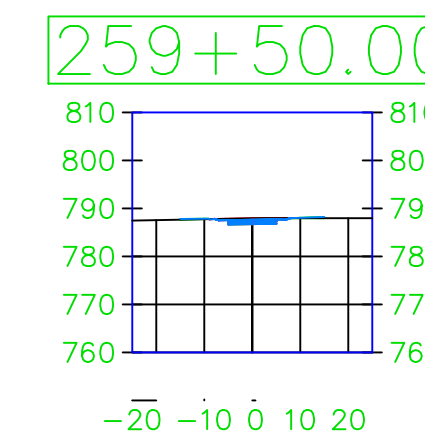
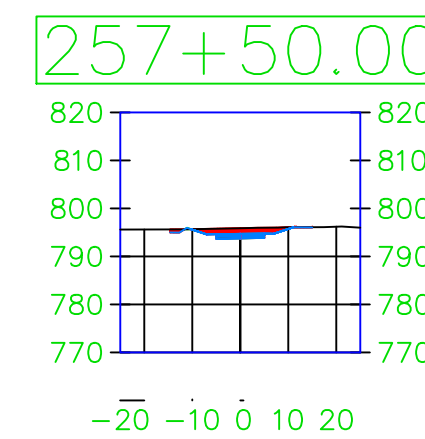
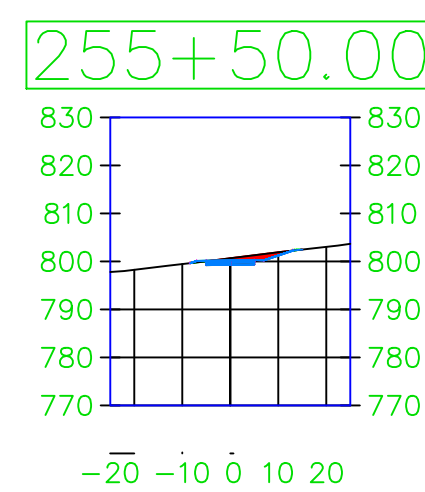
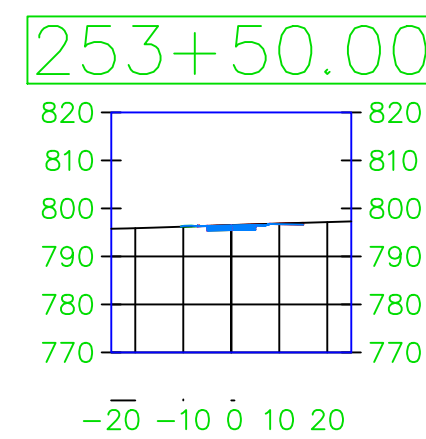
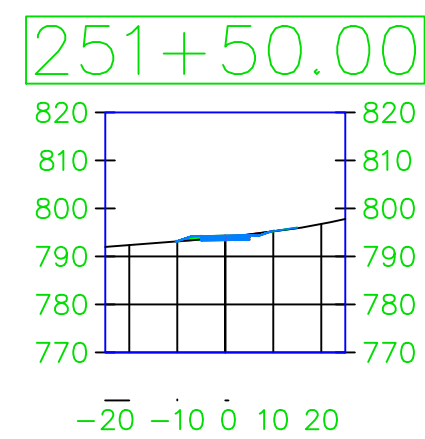
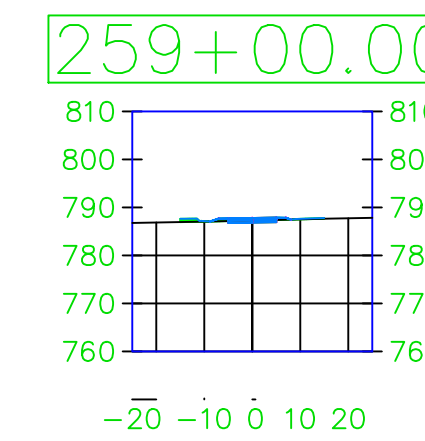
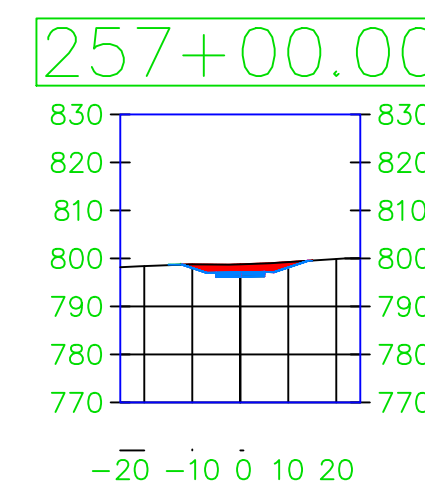
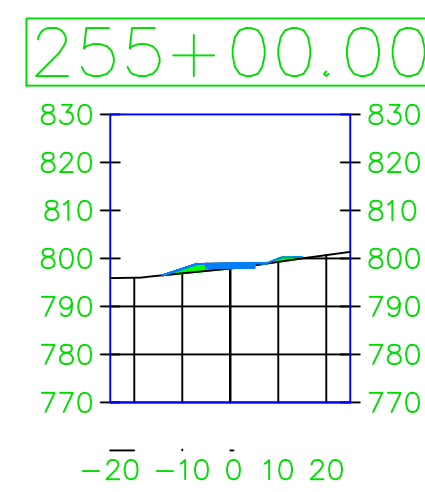
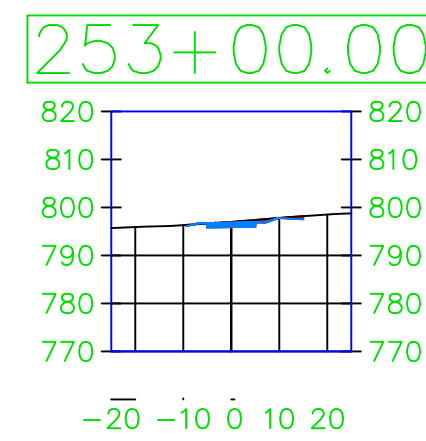
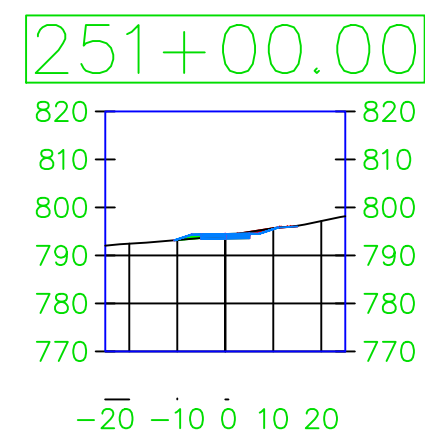


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Volga Trail

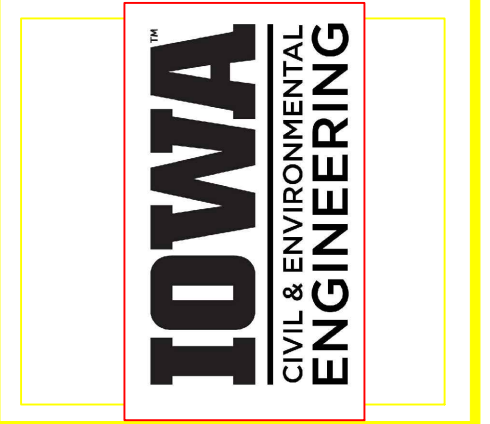
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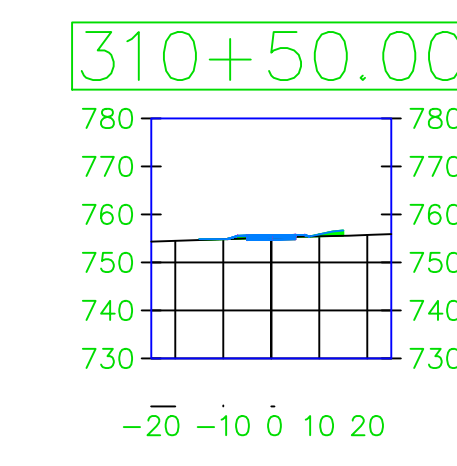
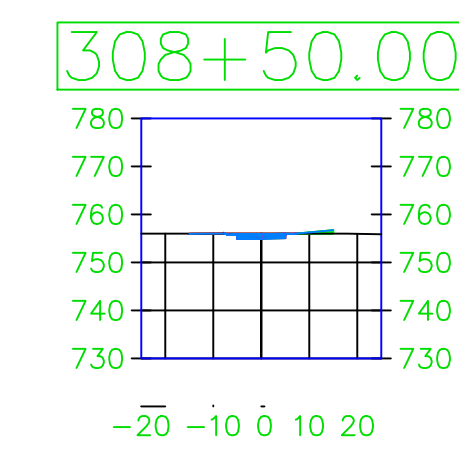
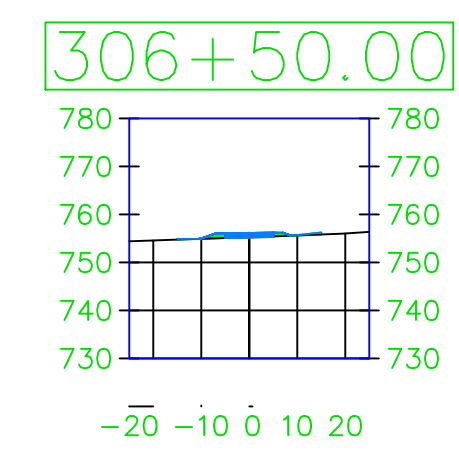
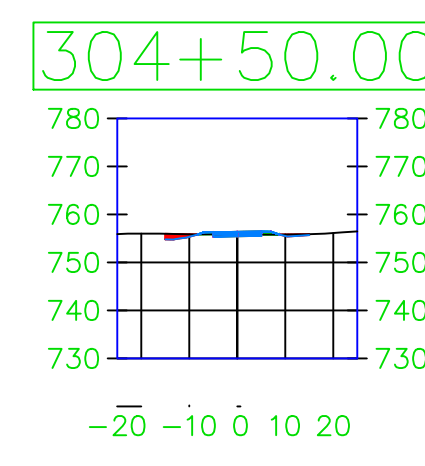
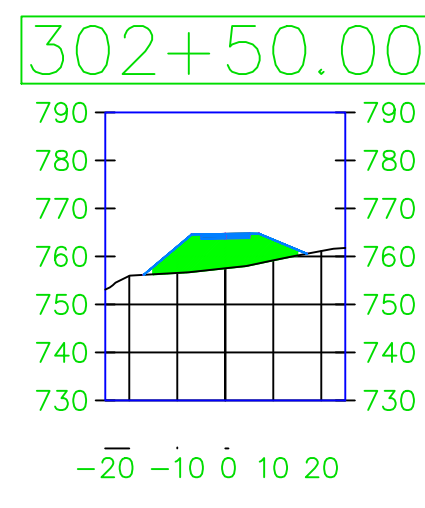
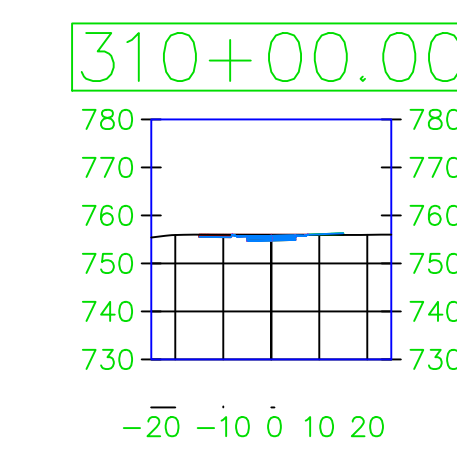
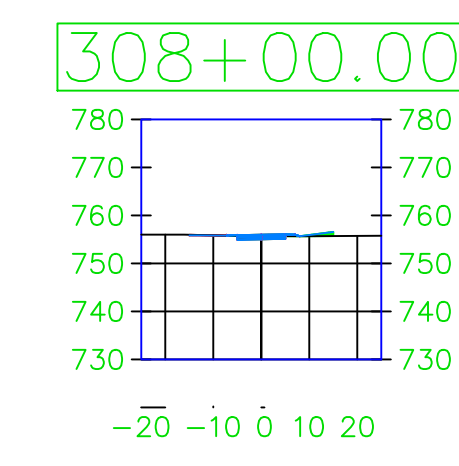
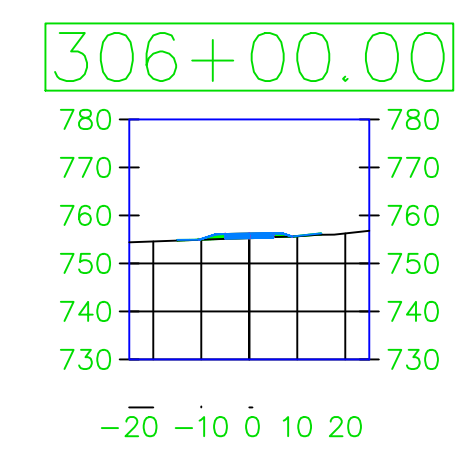
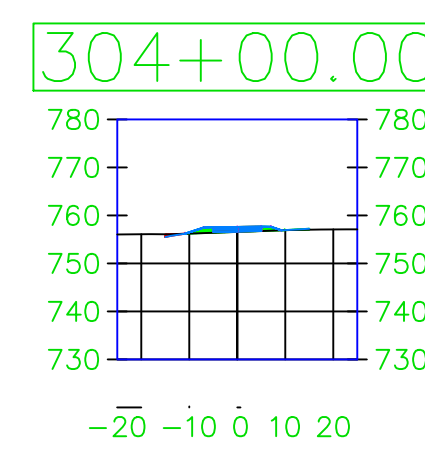
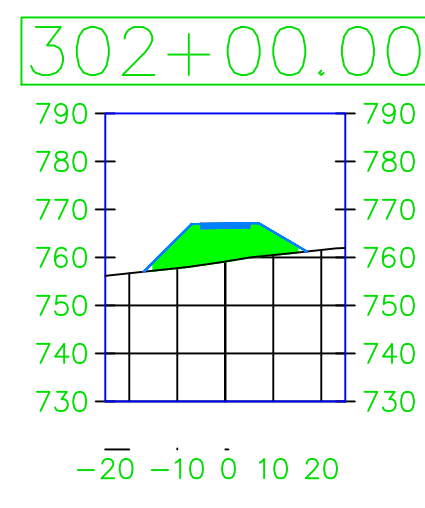
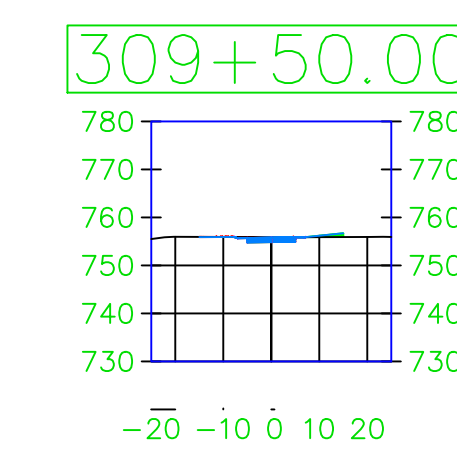
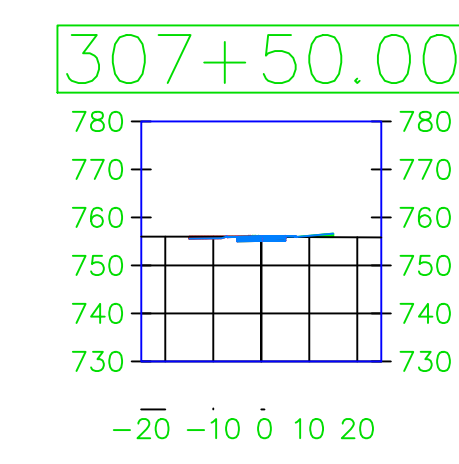
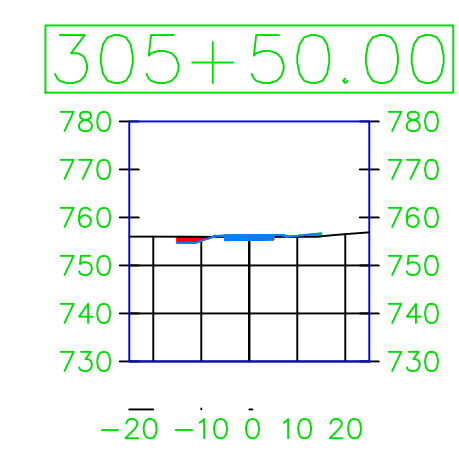
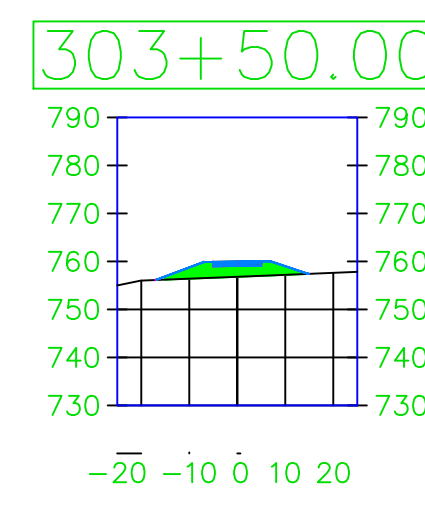
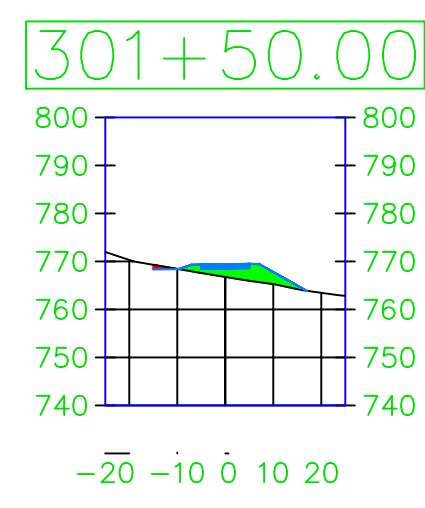
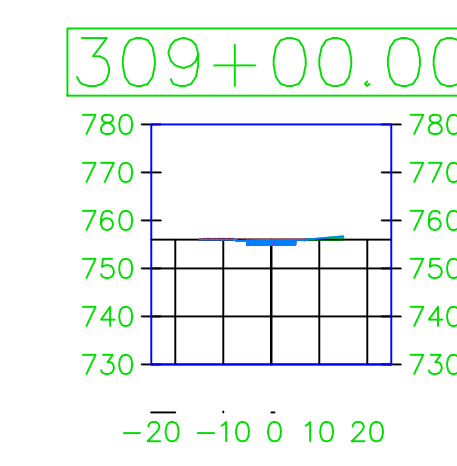
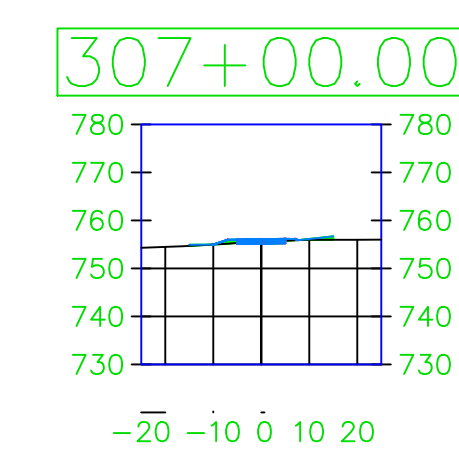
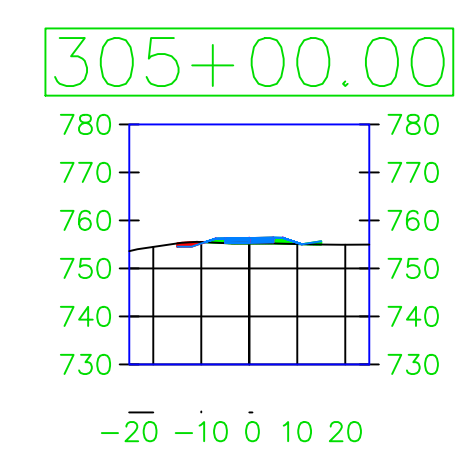
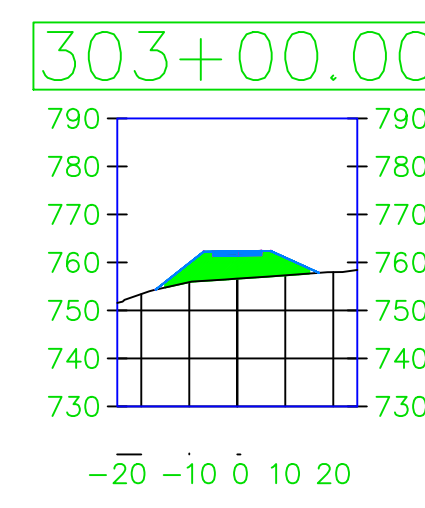
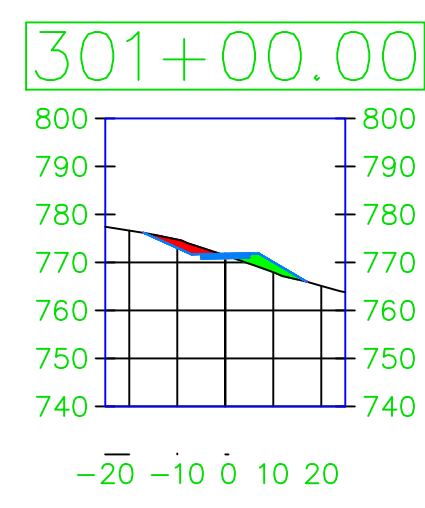


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Volga Trail

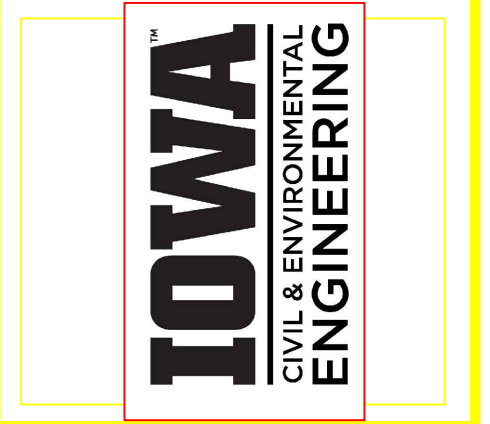
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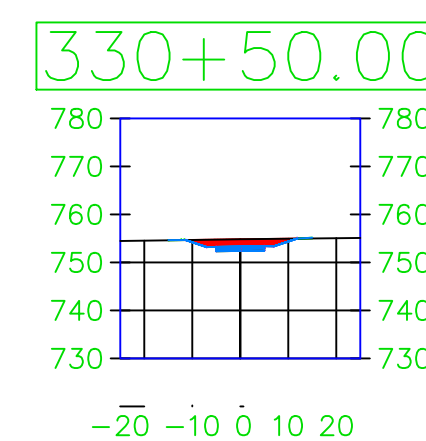
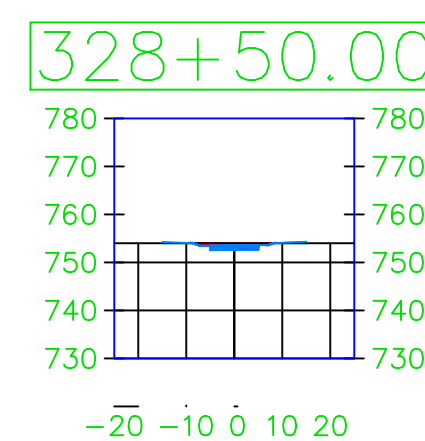
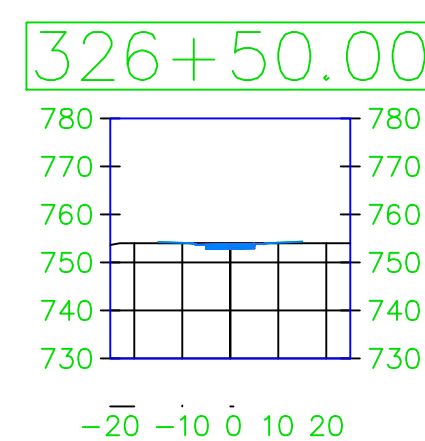
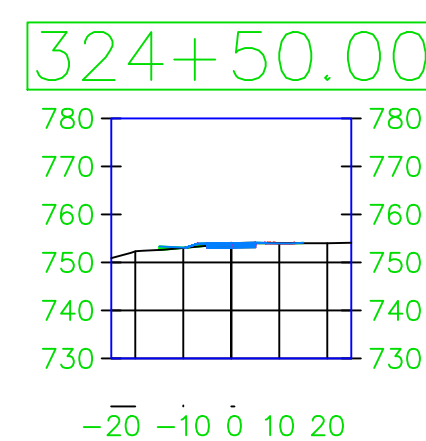
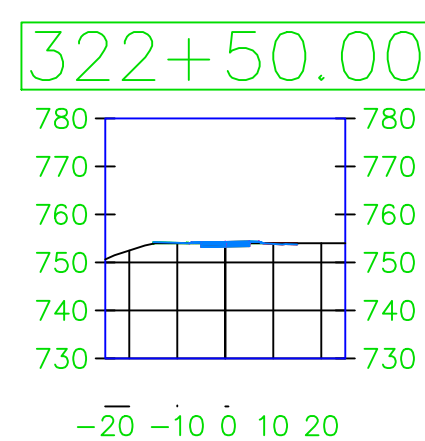
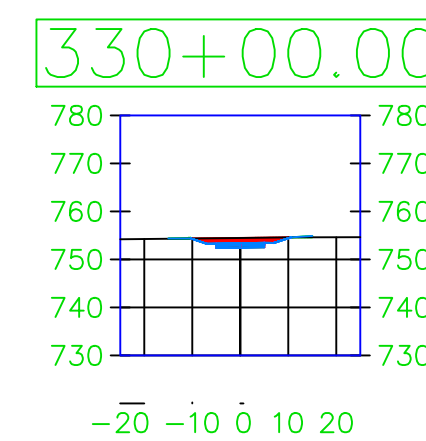
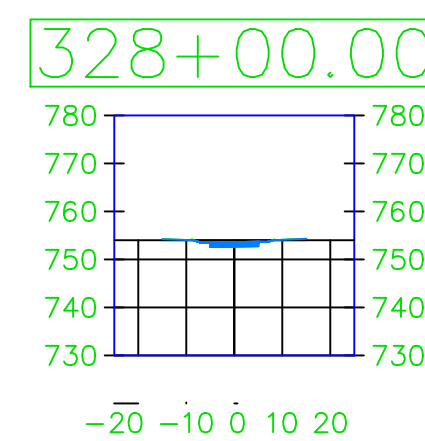
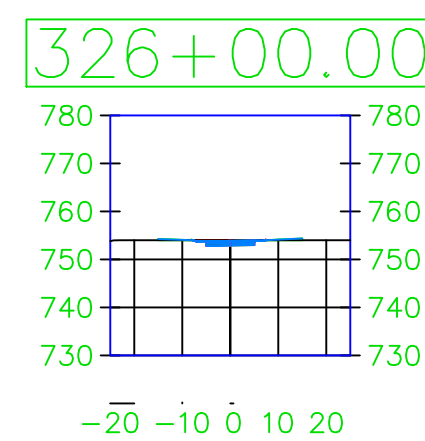
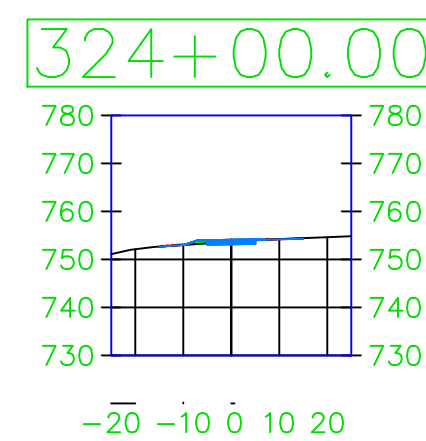
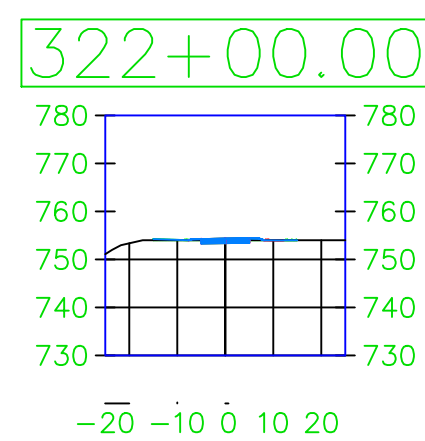
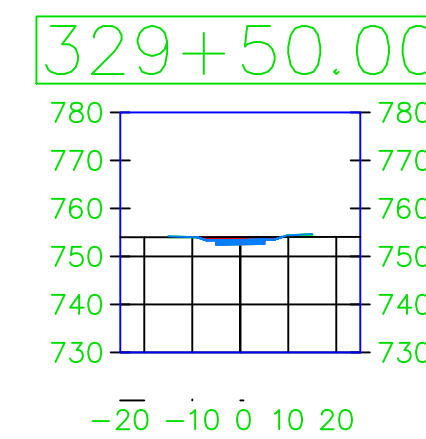
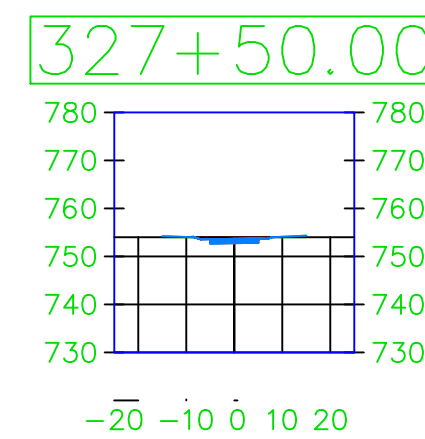
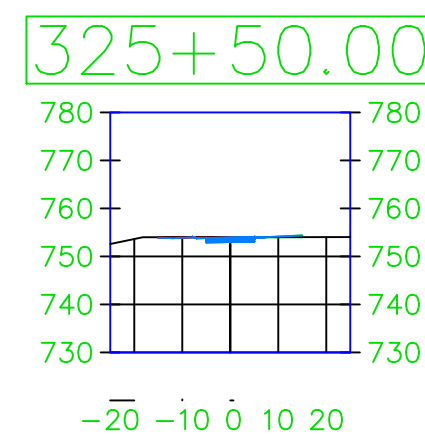
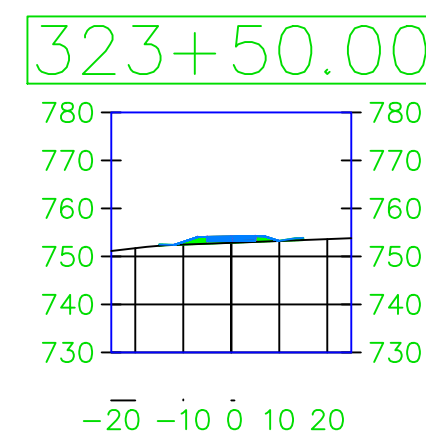
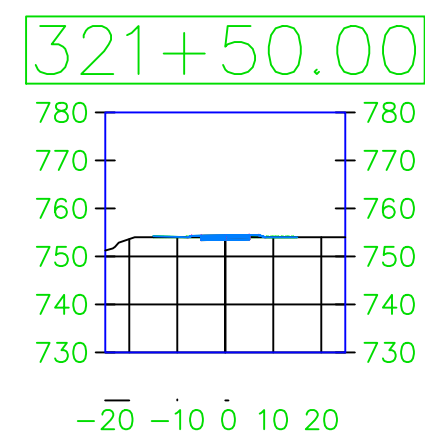
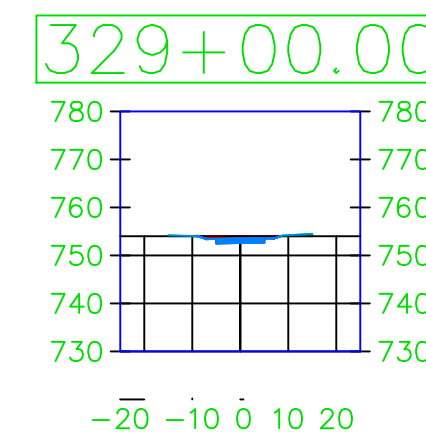
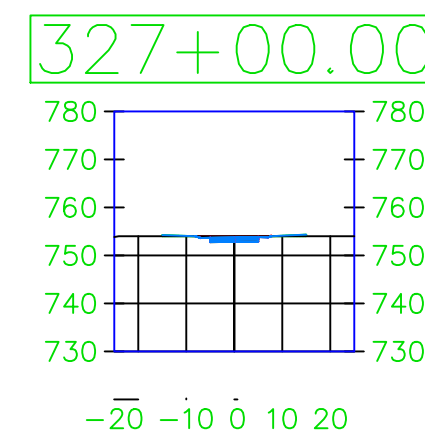
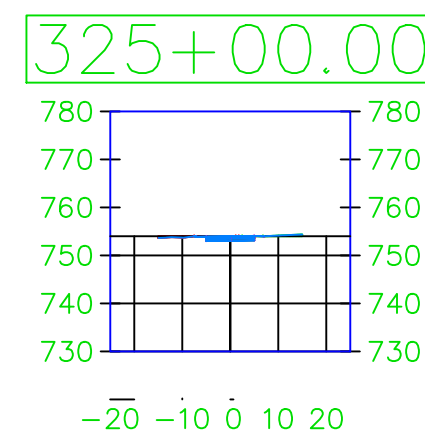
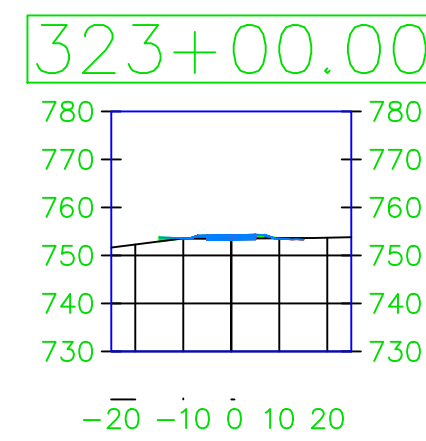
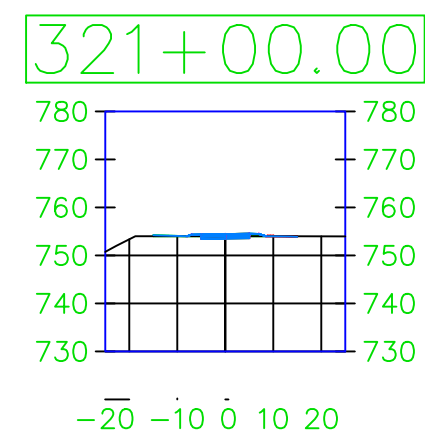


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Volga Trail

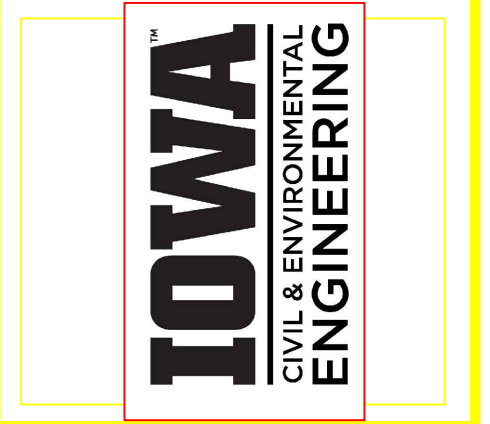
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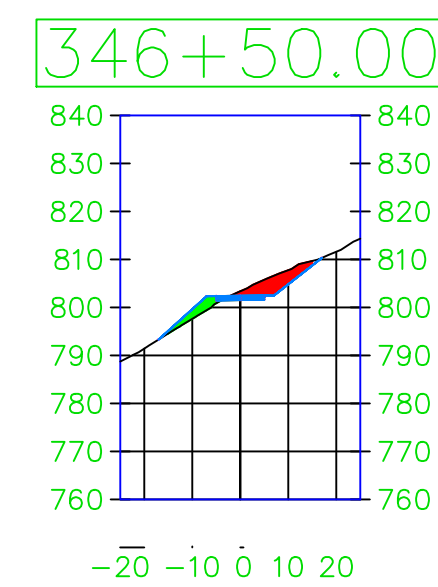
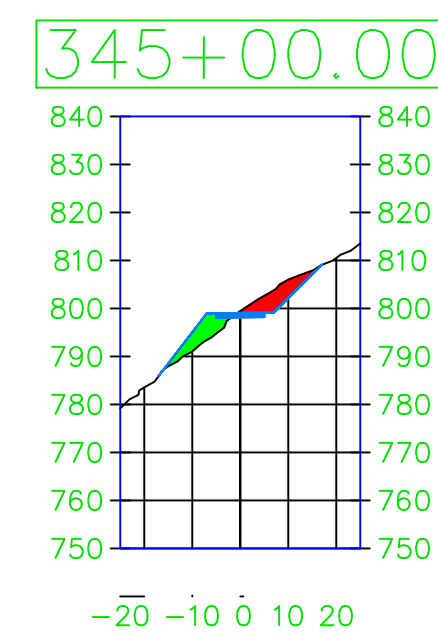
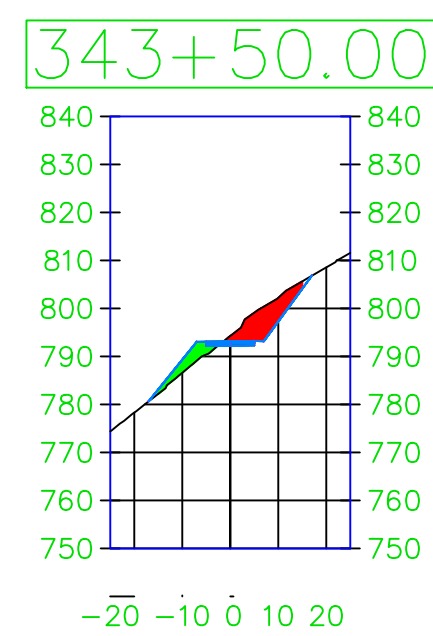
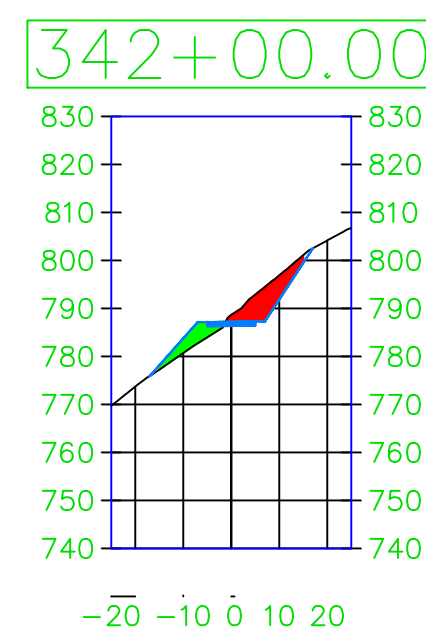
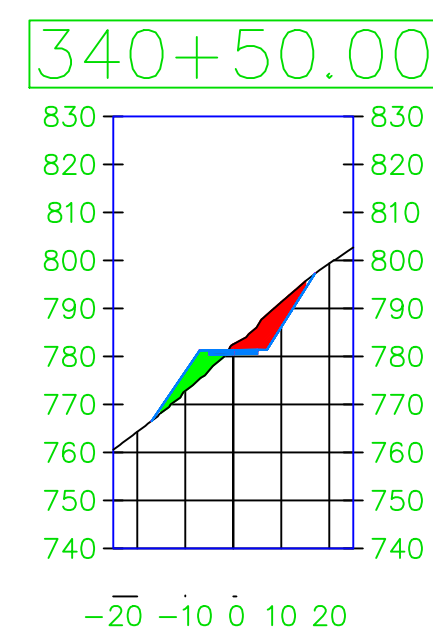
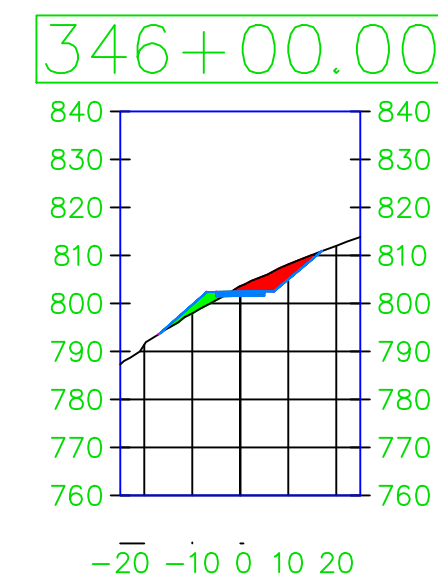
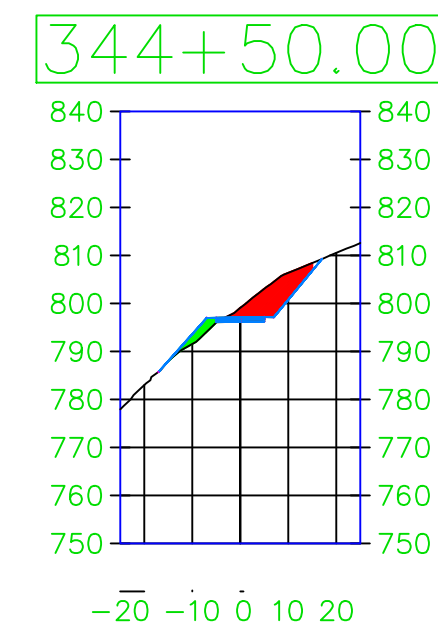
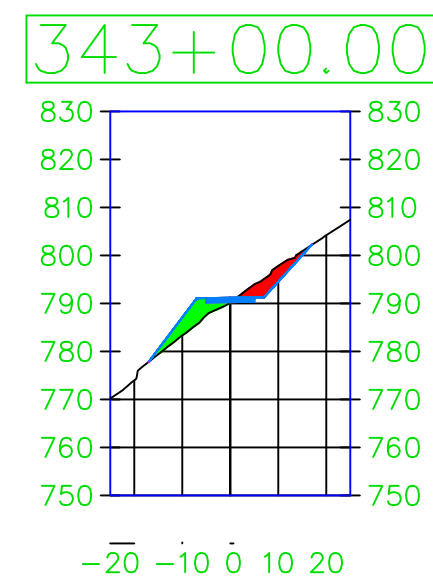
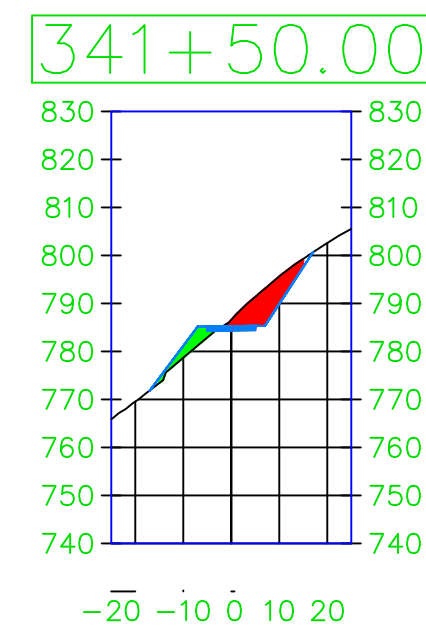
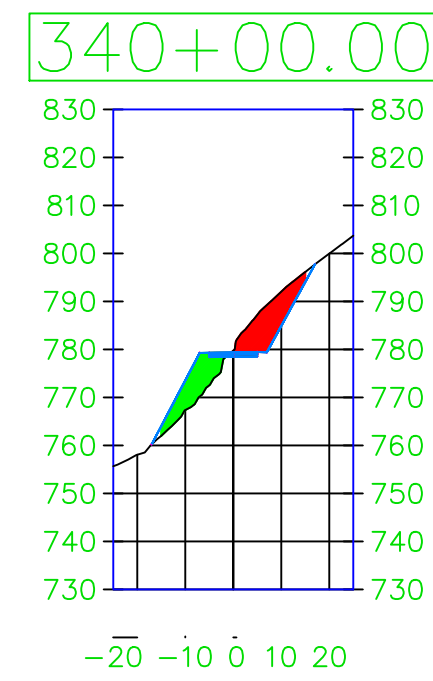
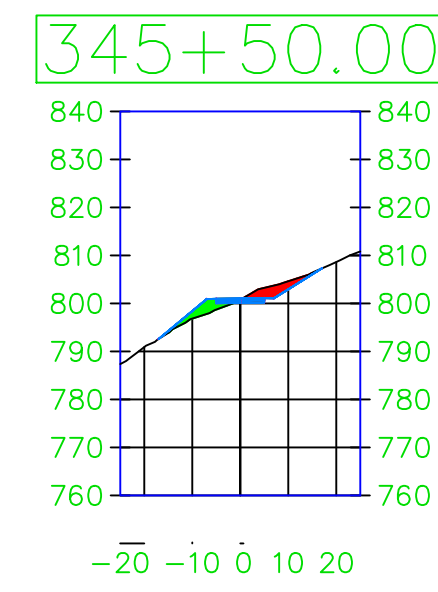
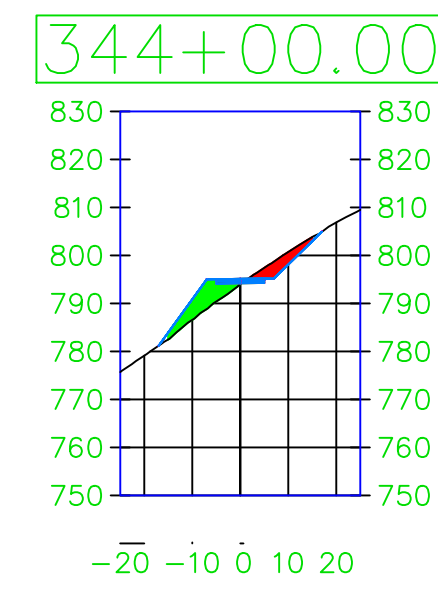
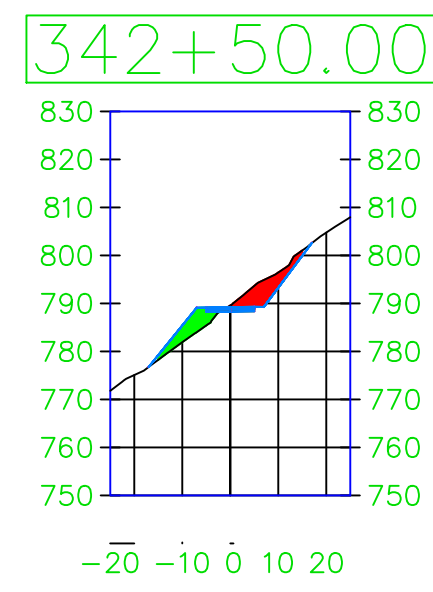
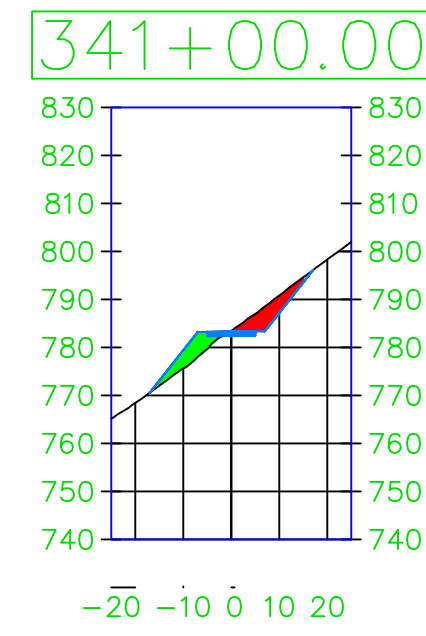
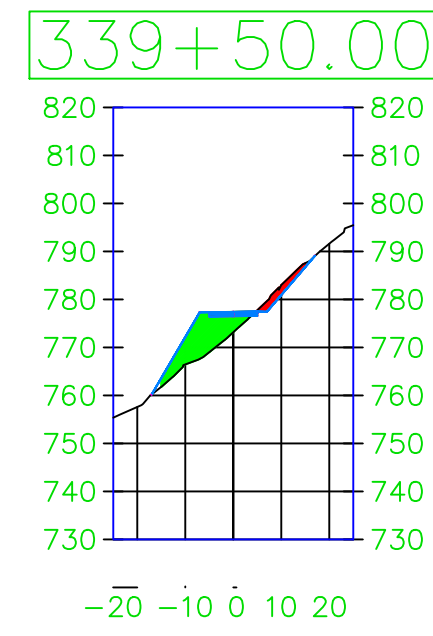


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Volga Trail

SHEET NAME
 SHEET NAME 1
 SHEET NAME 2

SHEET NO.
XX



PROJECT: CEE: 4850

DATE: 4/17/2020

DRAWN BY: cds

REVISION:

THE UNIVERSITY OF IOWA

CIVIL AND ENVIRONMENTAL ENGINEERING

4105 SEAMANS CENTER FOR THE ENGINEERING ARTS AND SCIENCES

103 S CAPITOL ST IOWA CITY, IOWA 52242

PHONE: 319.335.5647 FAX: 319.335.5660 EMAIL: civil-hawks@iowa.edu



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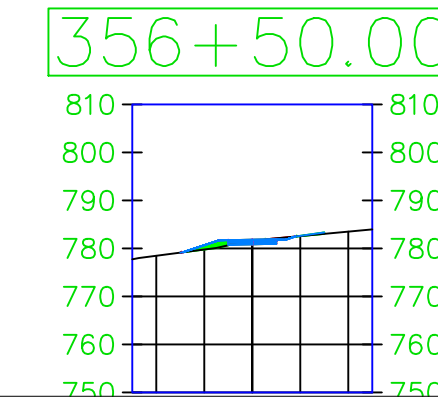
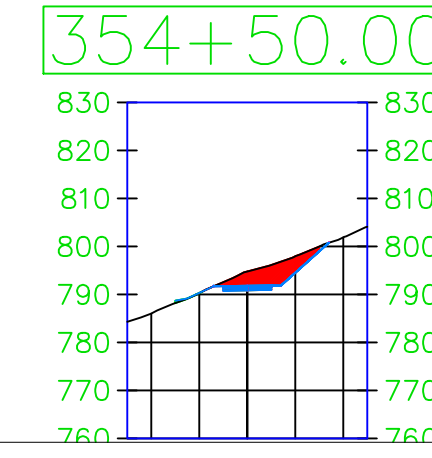
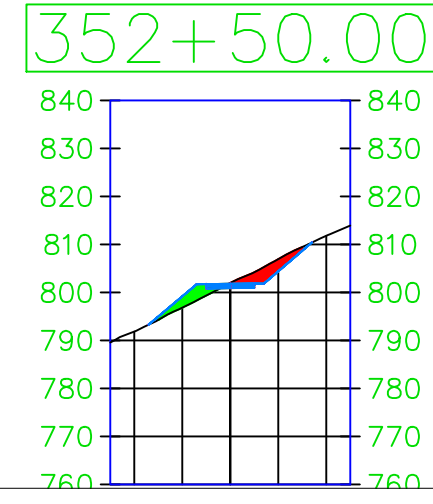
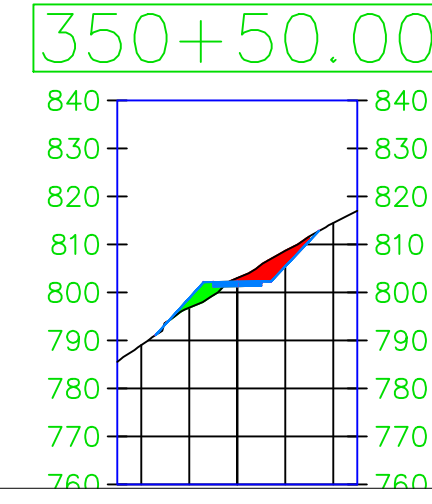
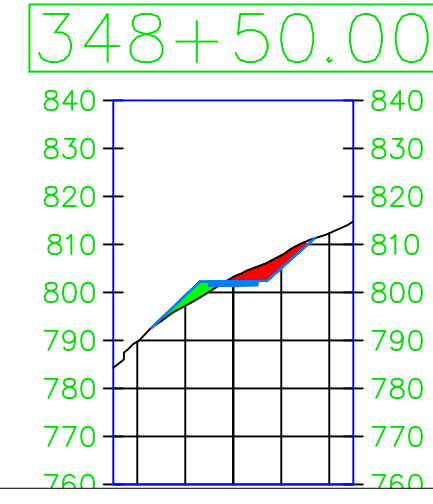
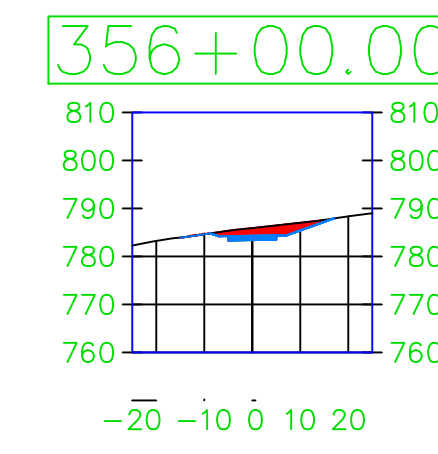
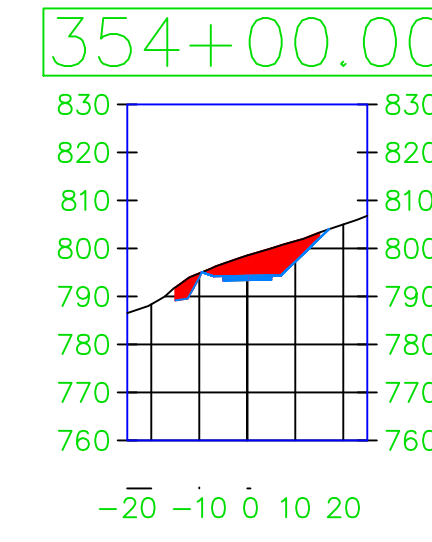
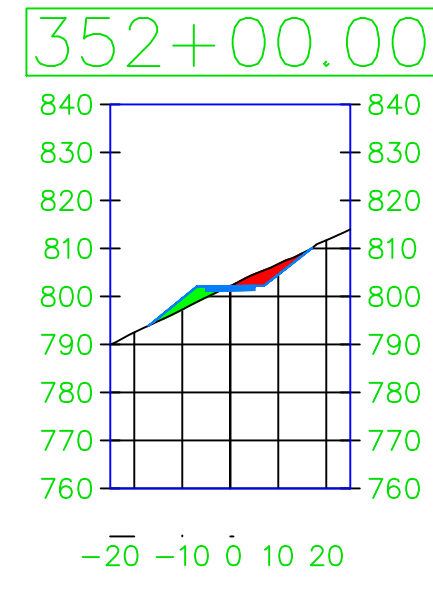
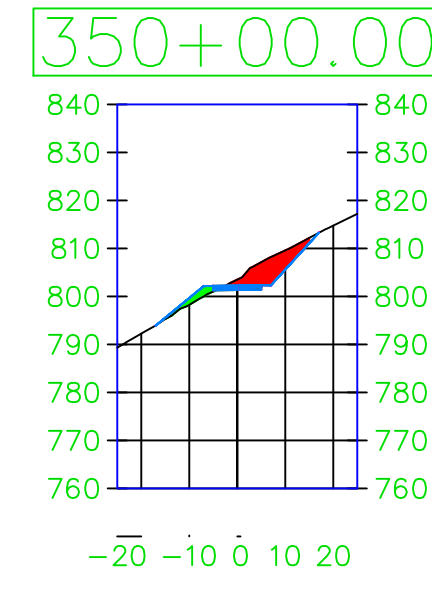
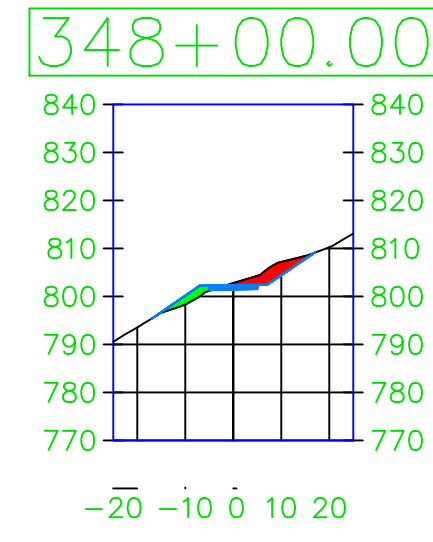
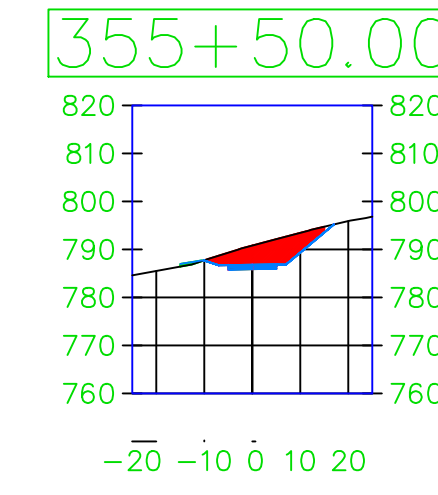
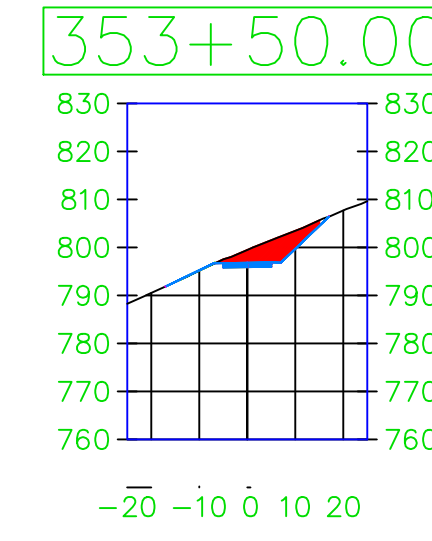
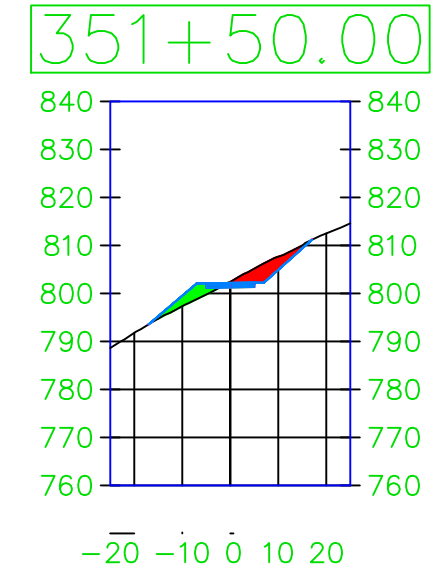
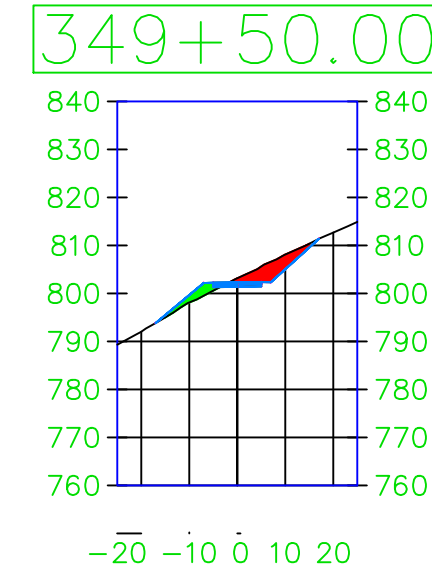
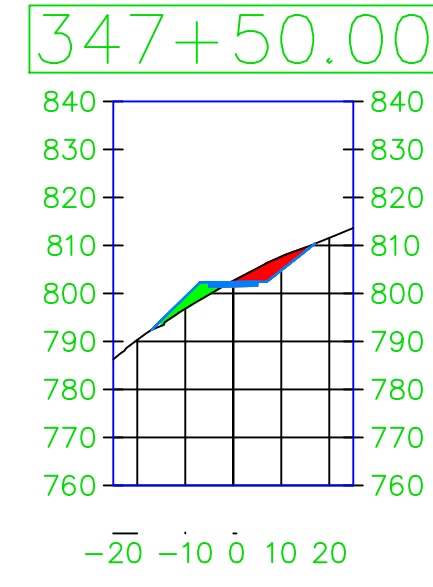
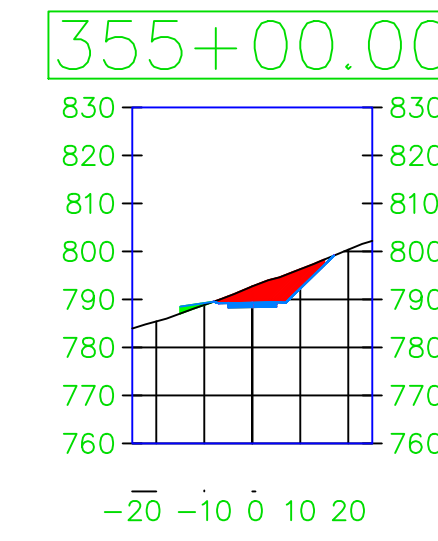
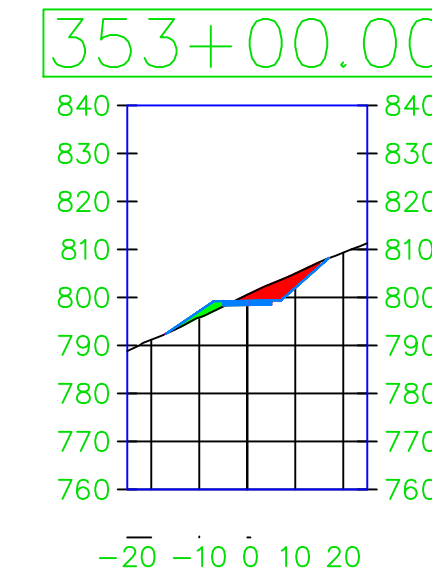
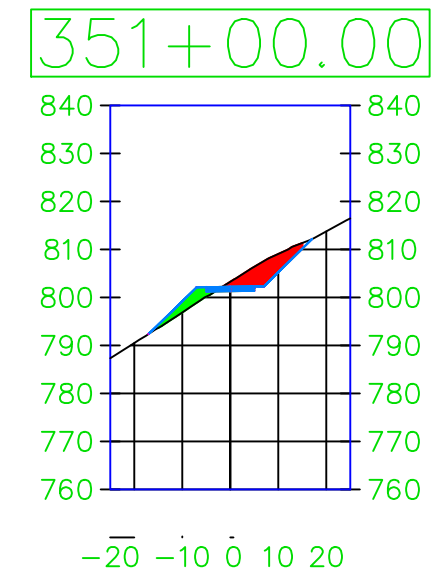
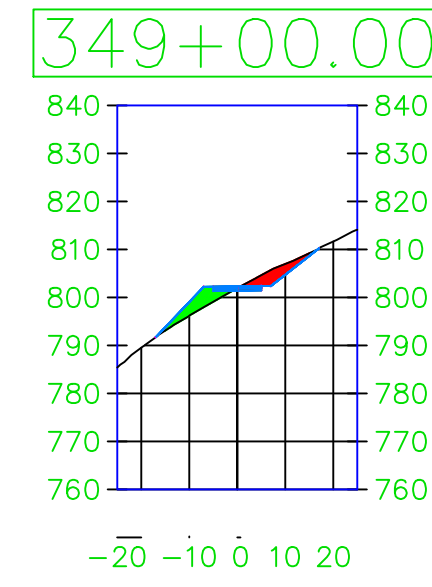
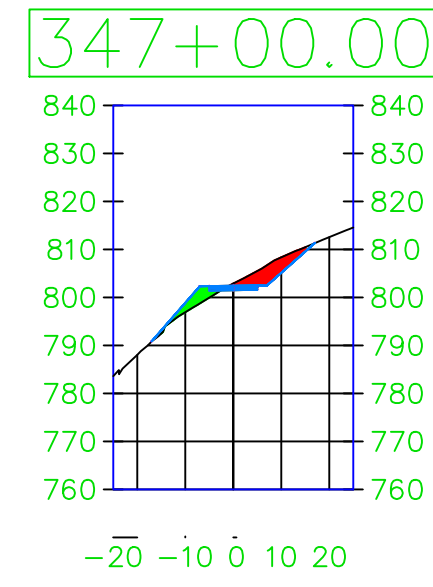
Volga Trail

SHEET NAME

SHEET NAME 1
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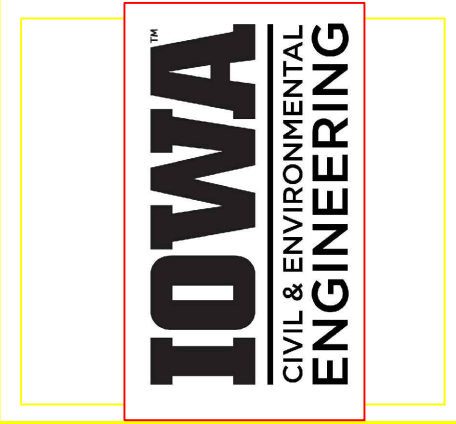
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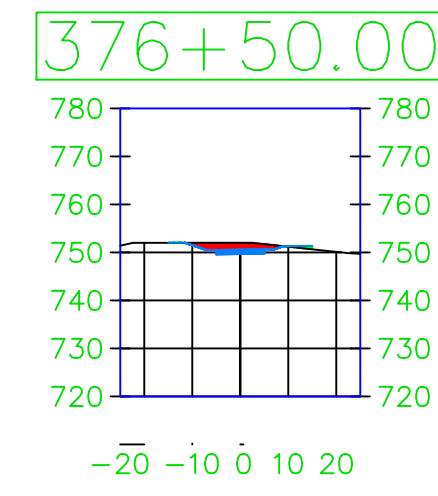
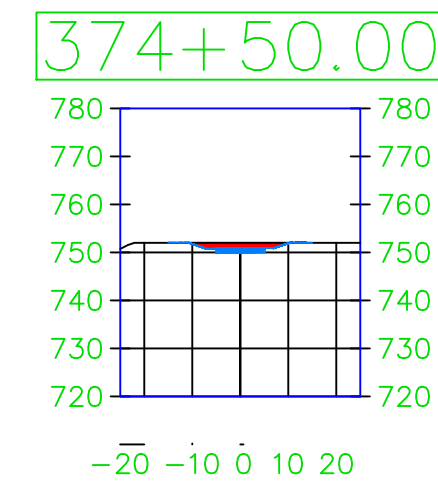
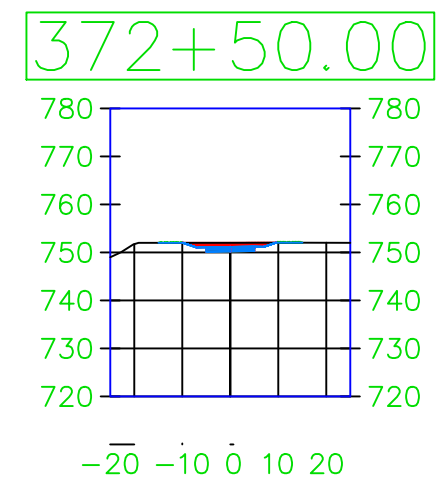
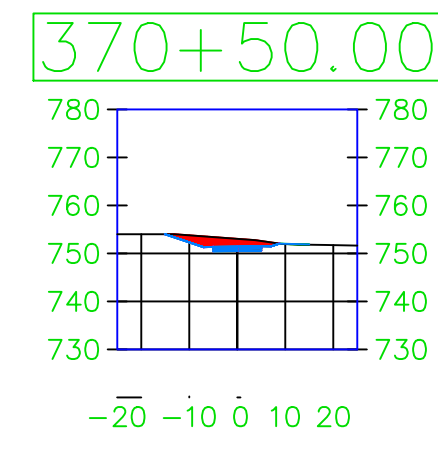
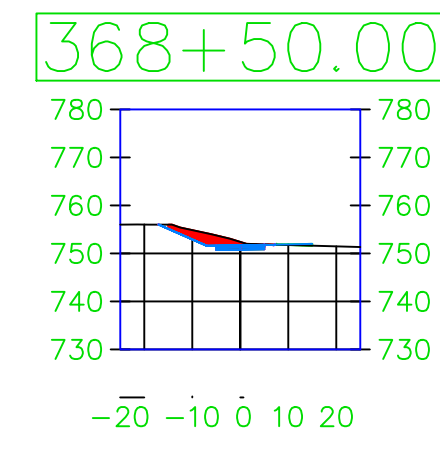
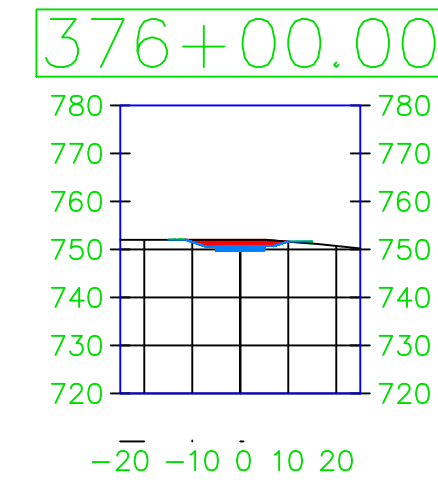
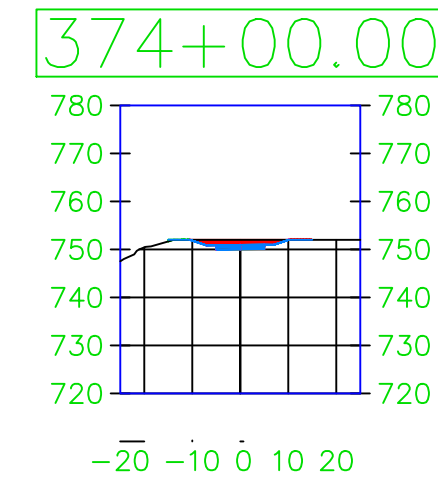
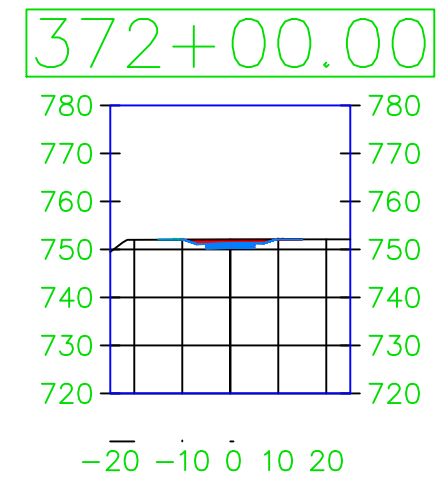
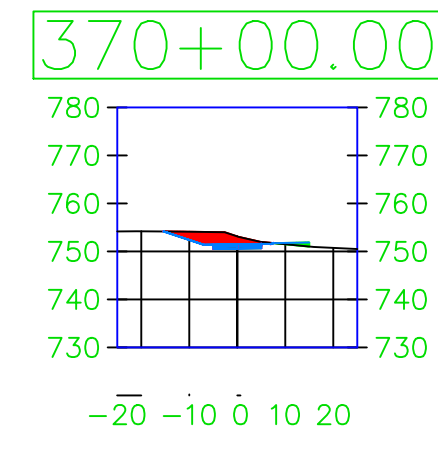
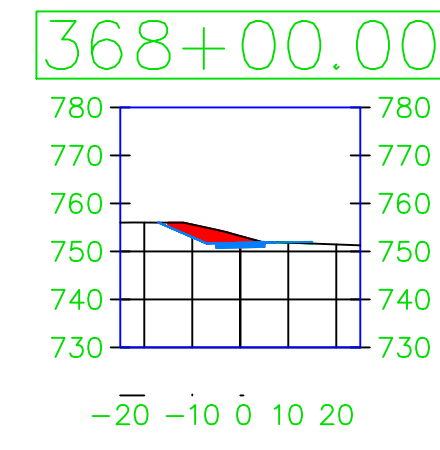
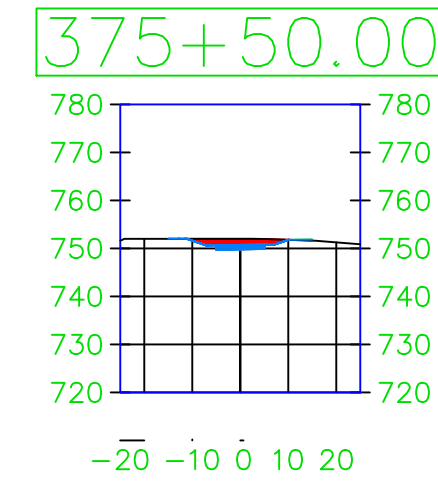
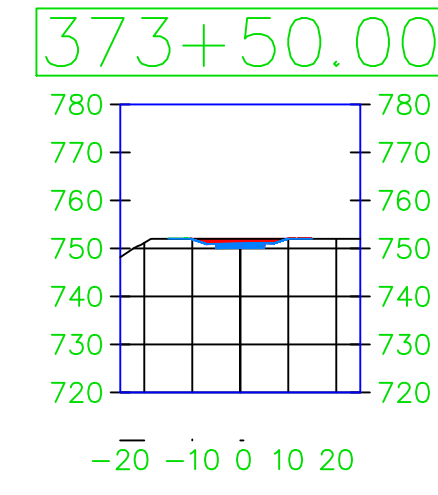
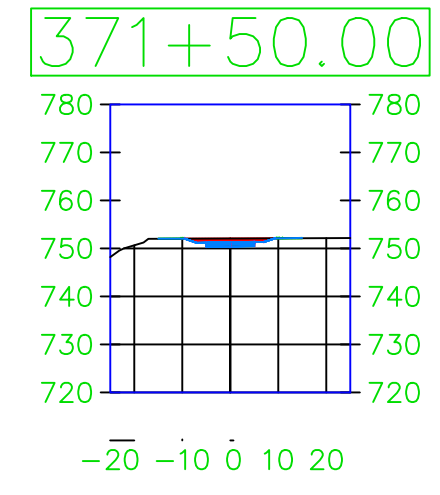
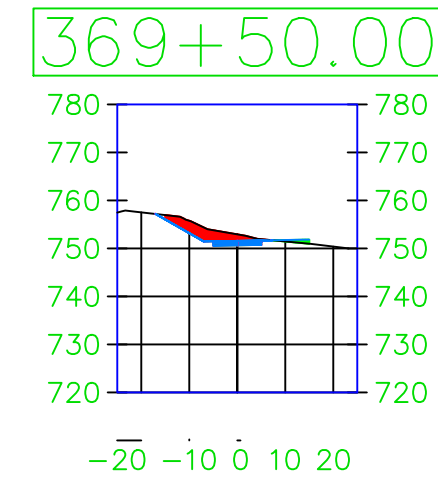
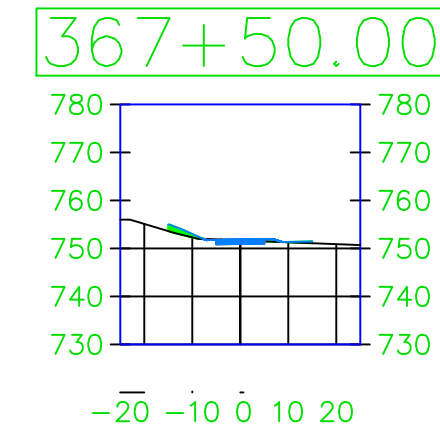
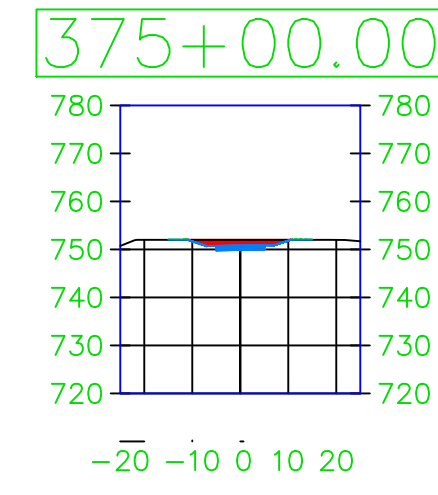
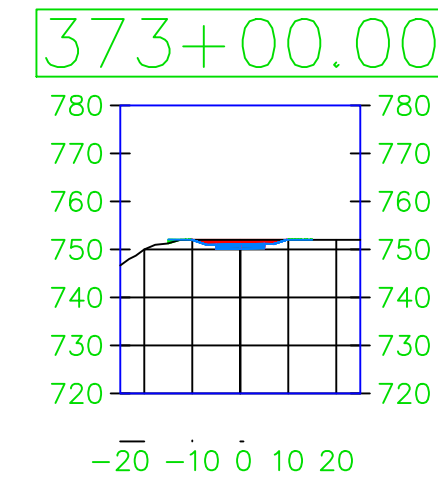
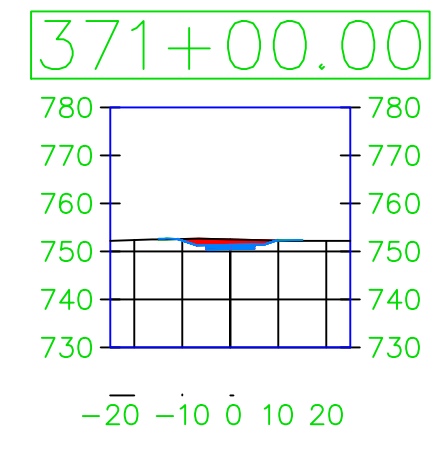
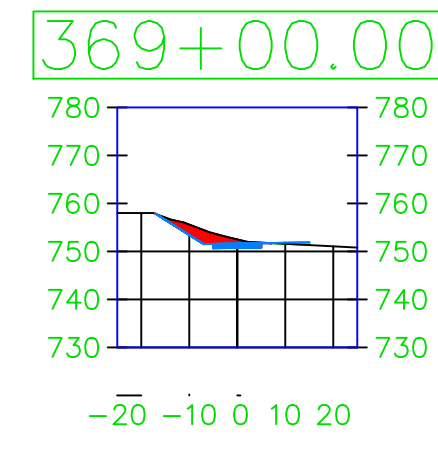
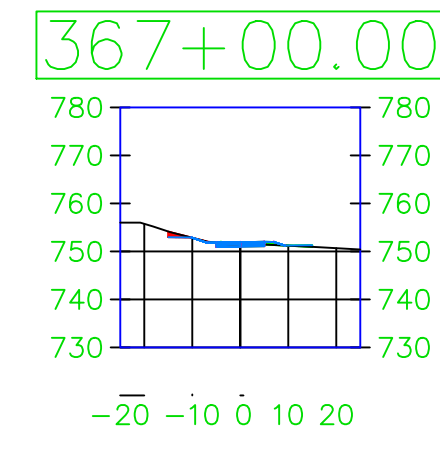
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 FAX: 319.335.5660
 EMAIL: civil-hawks@iowa.edu



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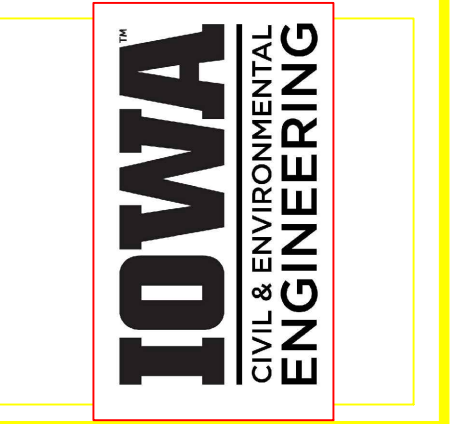
Volga Trail

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SHEET NO.	XX



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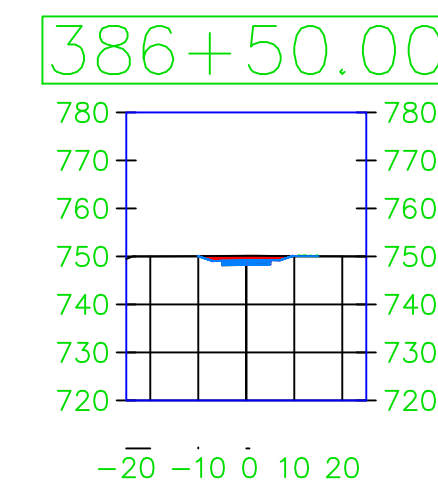
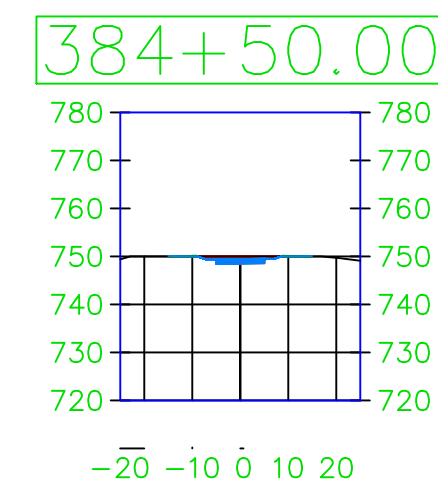
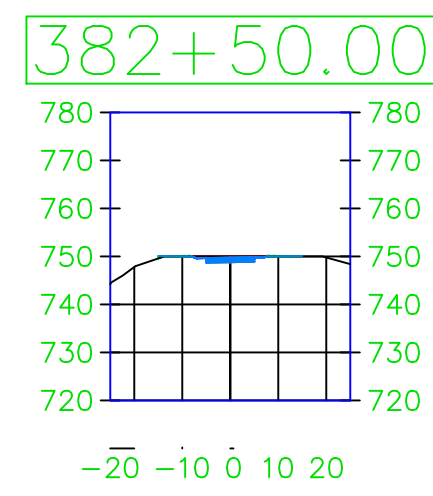
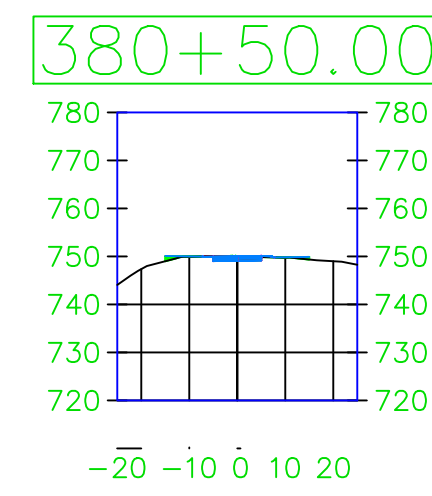
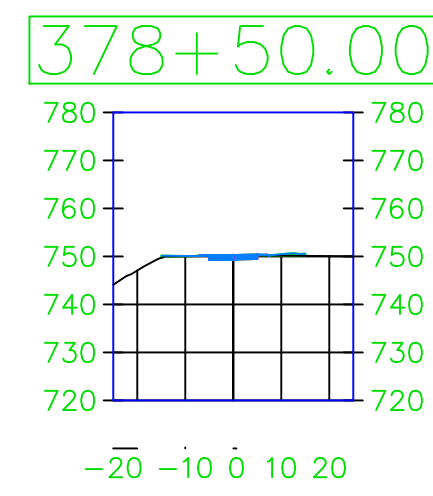
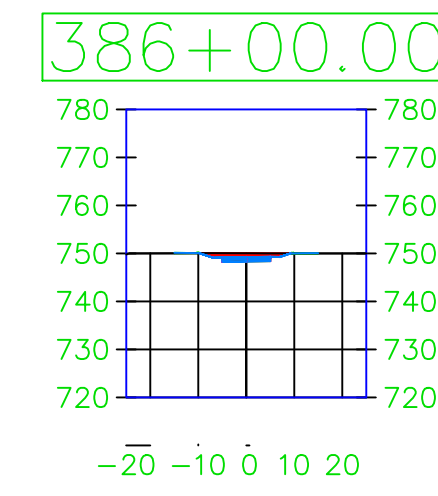
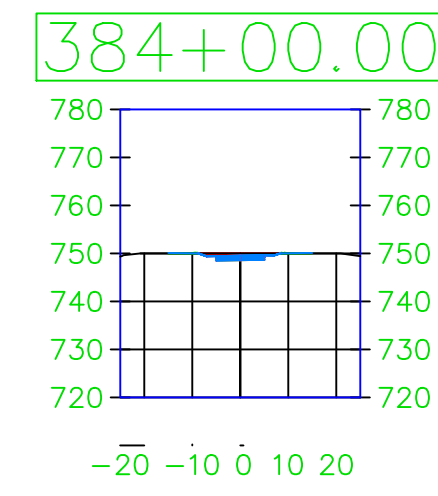
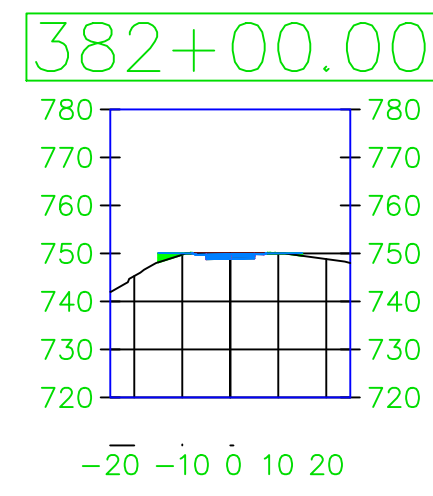
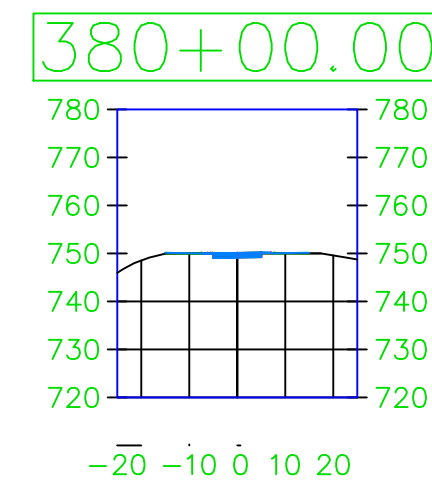
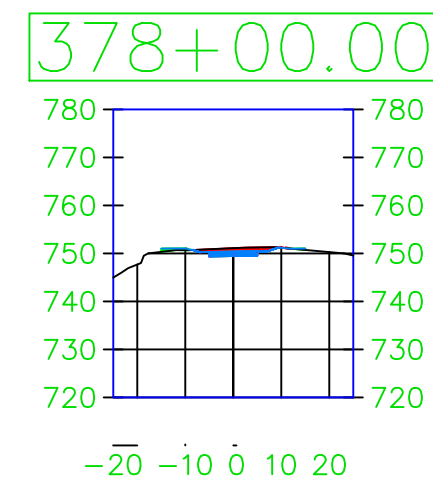
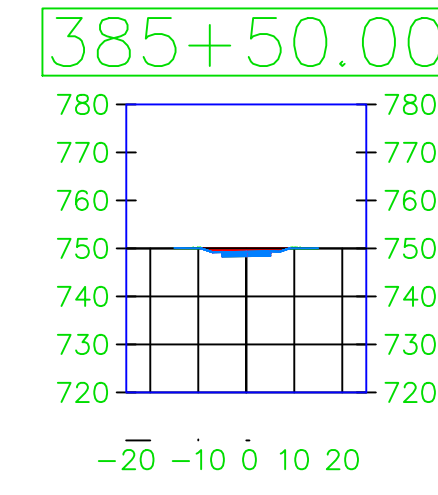
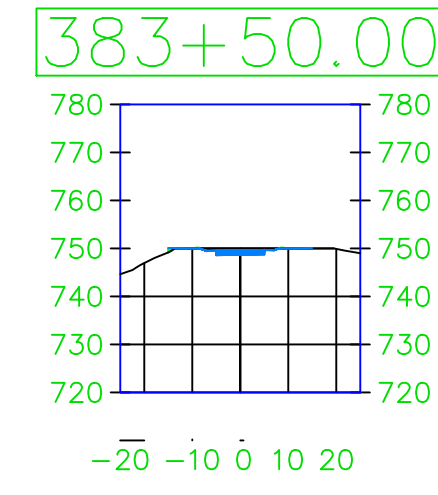
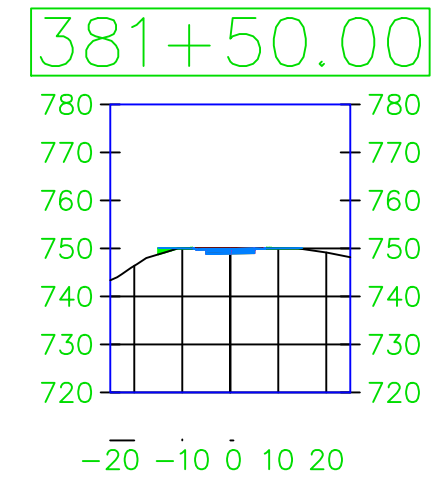
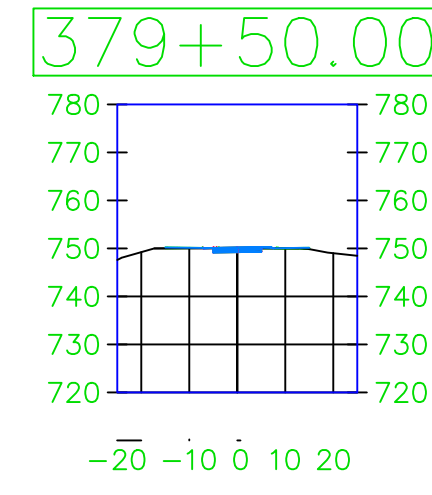
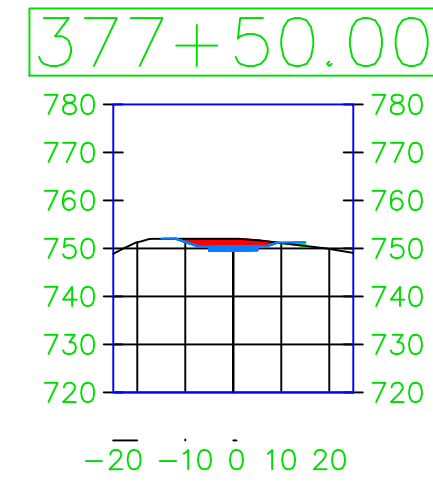
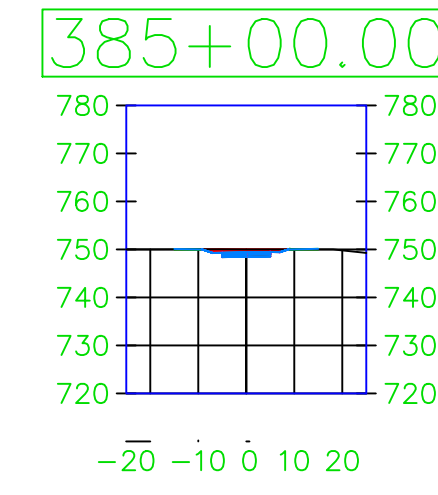
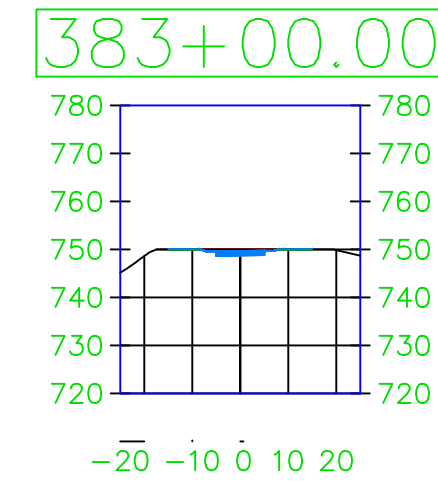
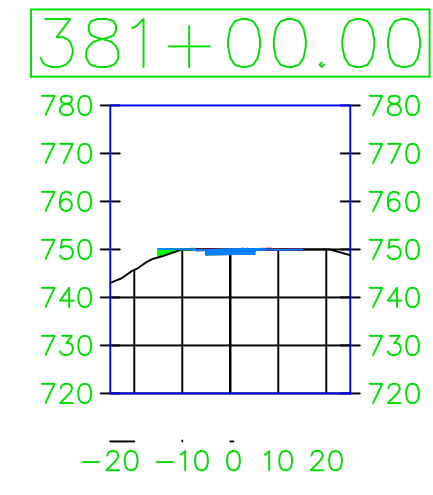
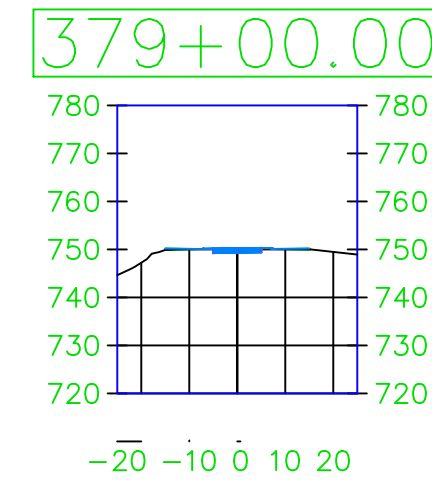
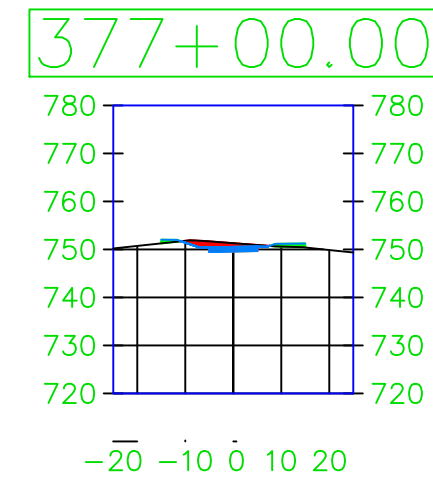


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Volga Trail

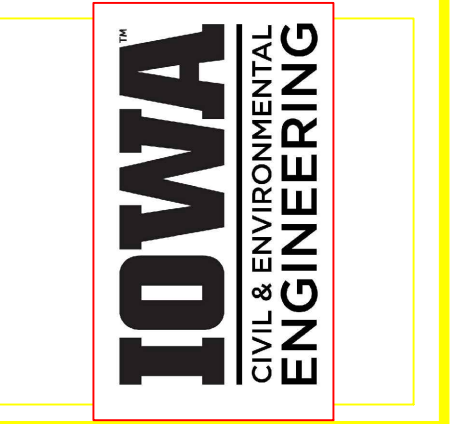
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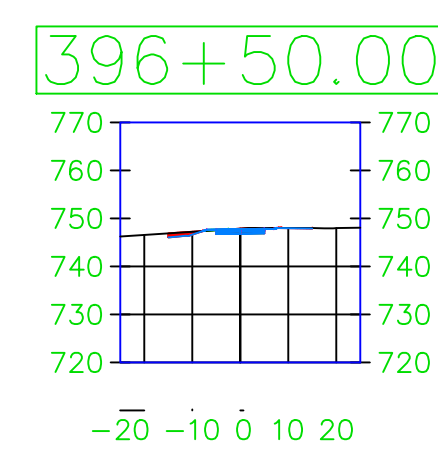
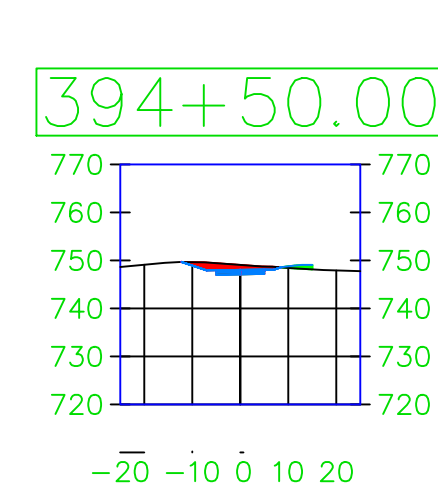
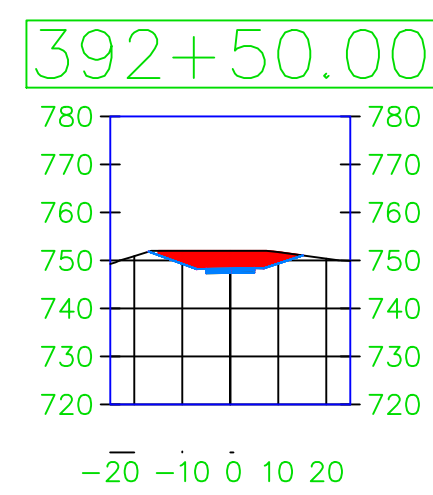
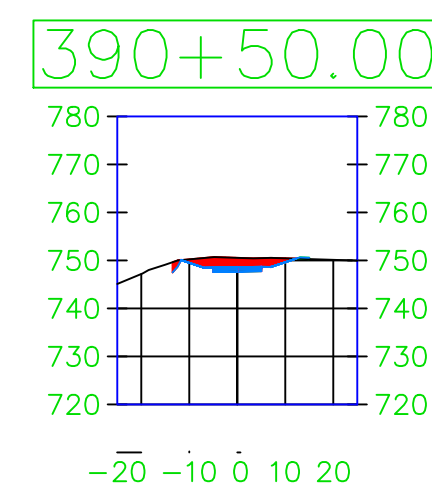
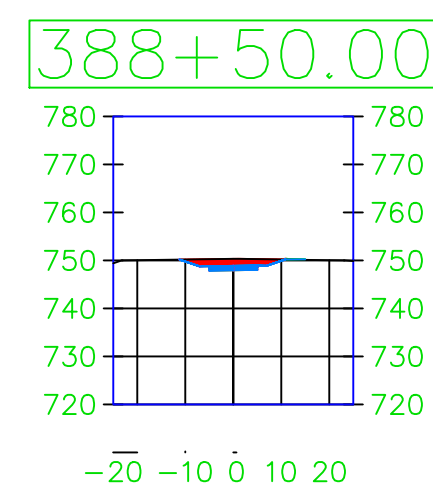
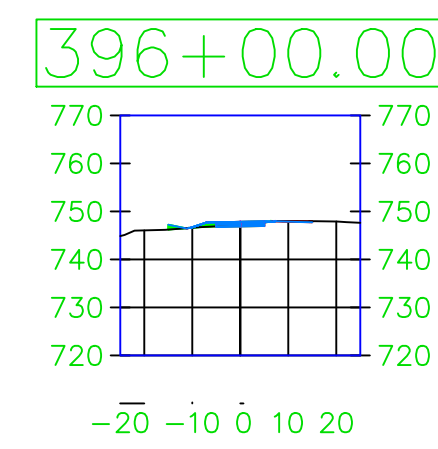
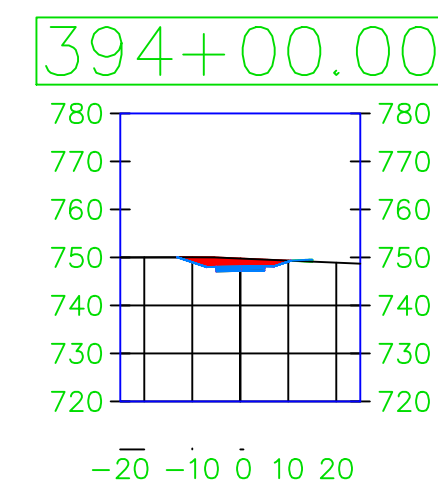
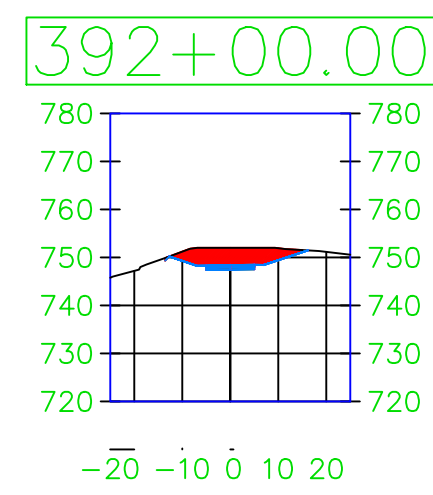
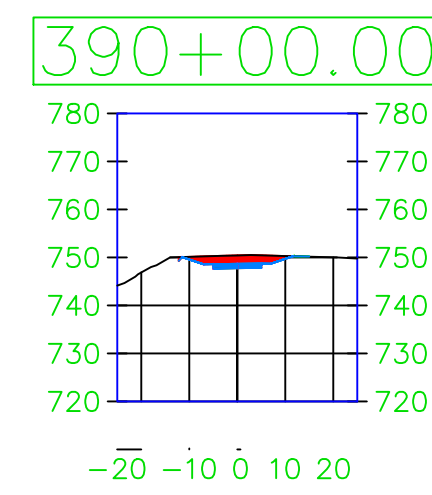
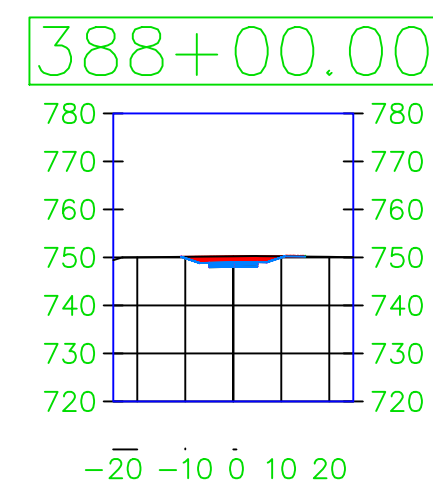
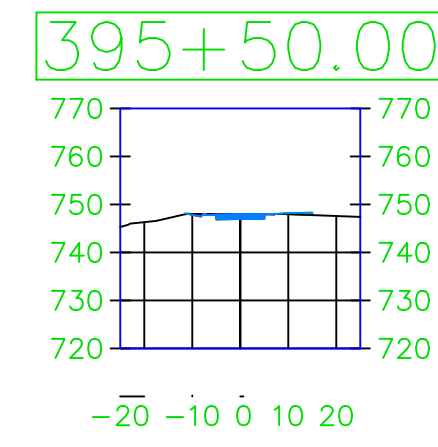
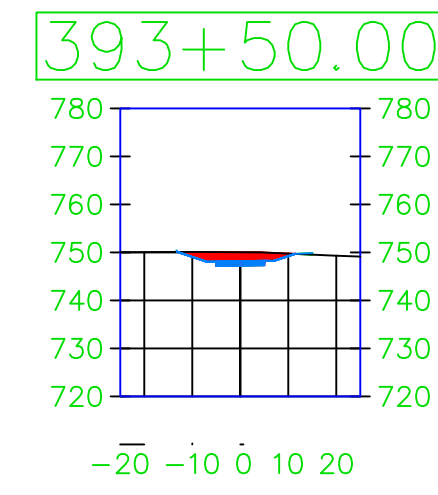
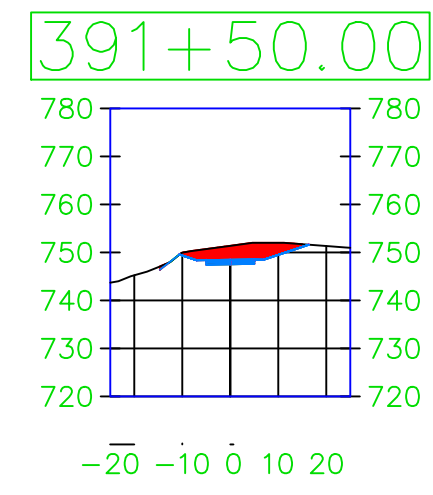
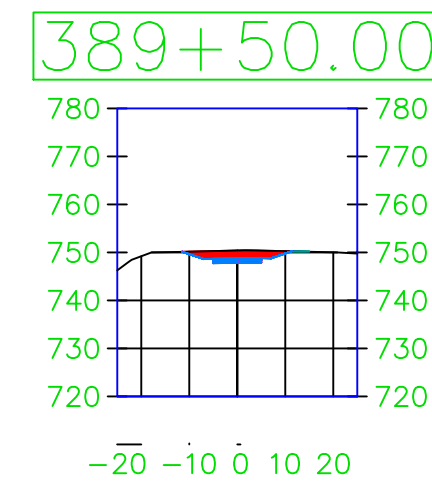
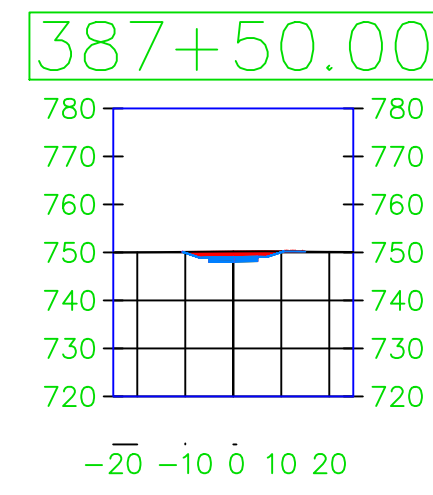
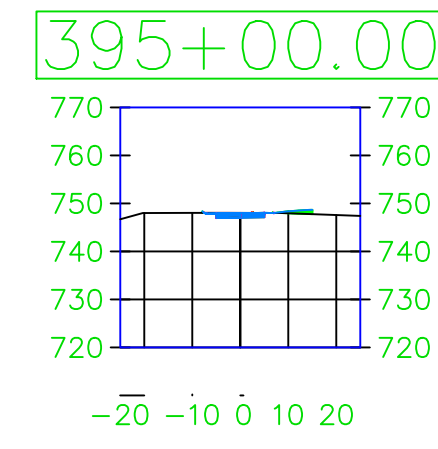
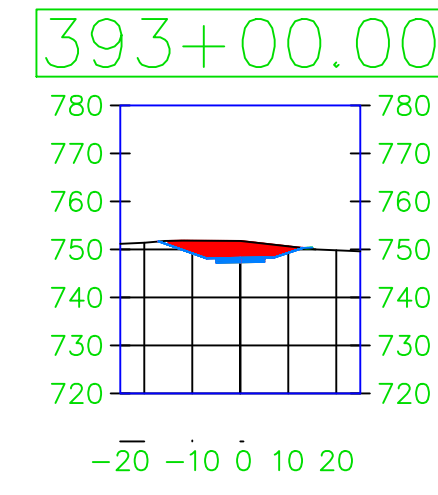
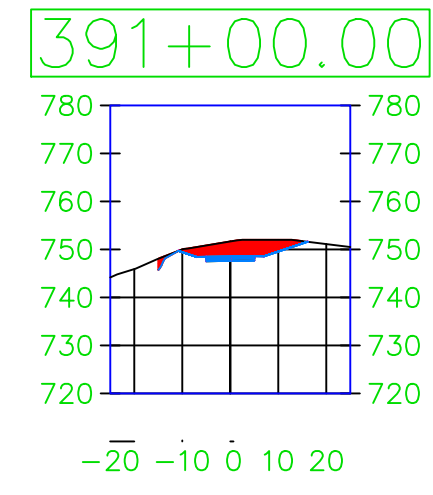
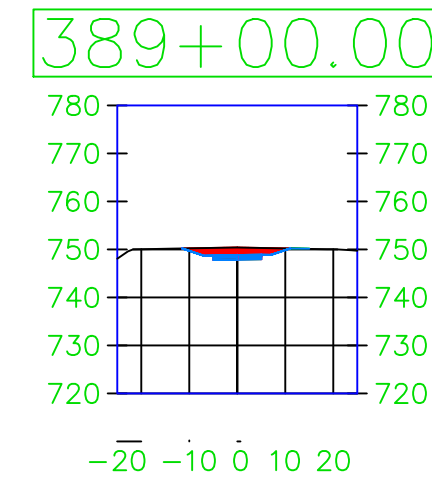
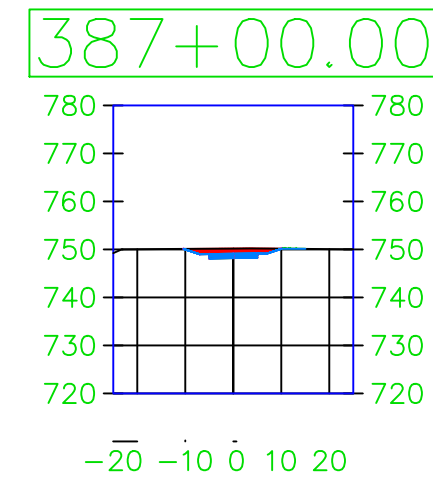


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Volga Trail

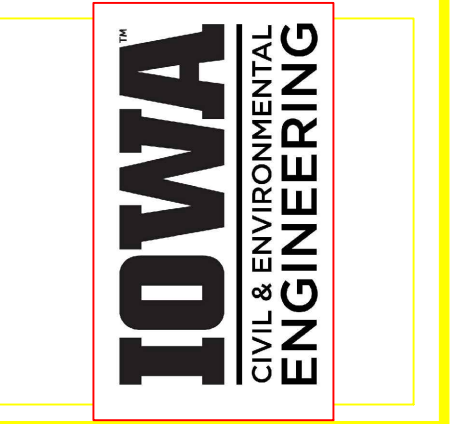
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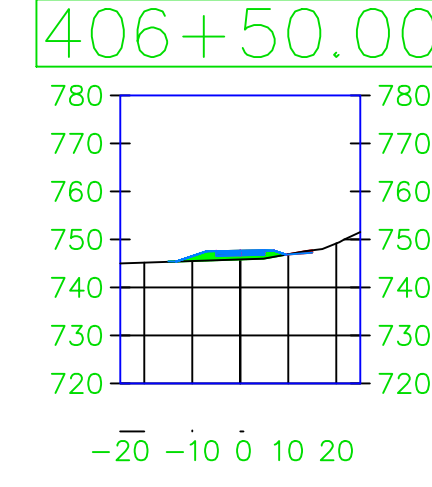
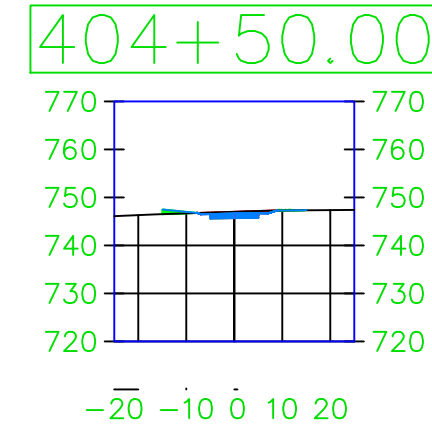
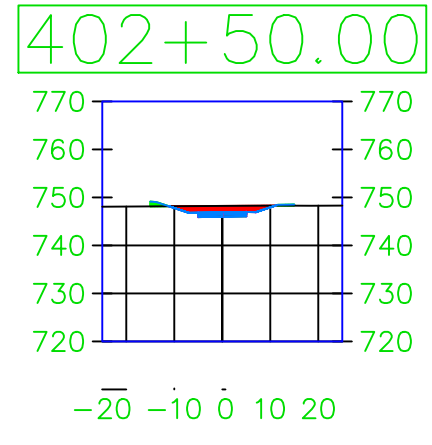
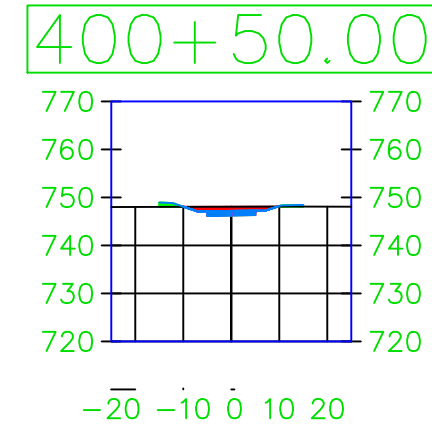
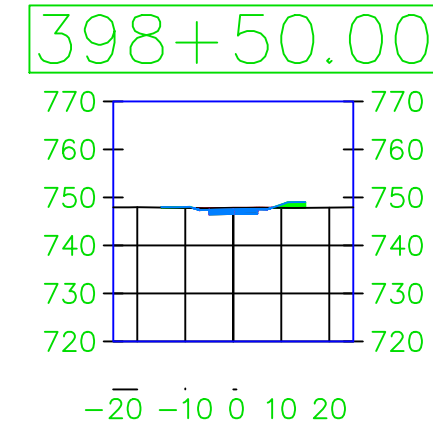
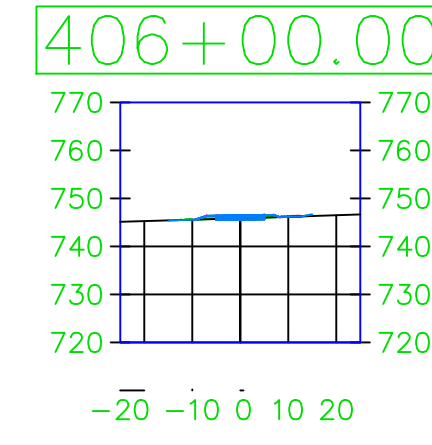
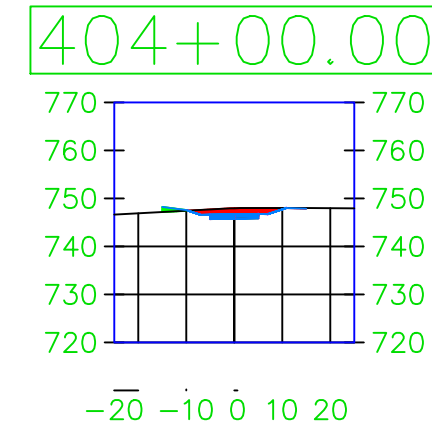
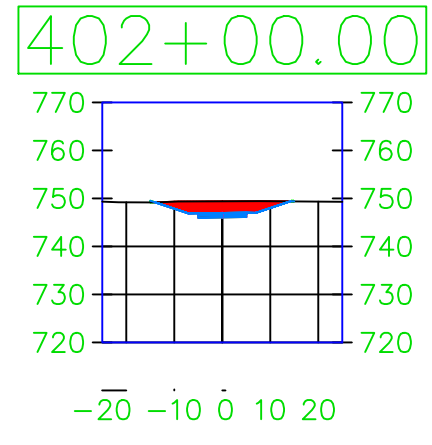
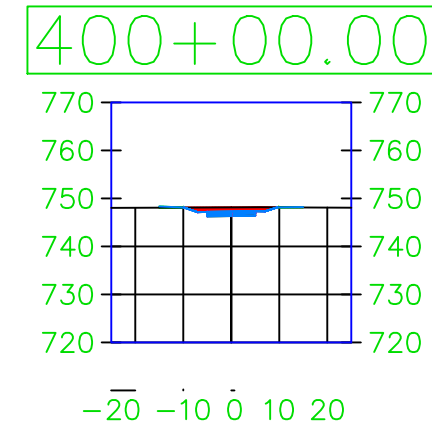
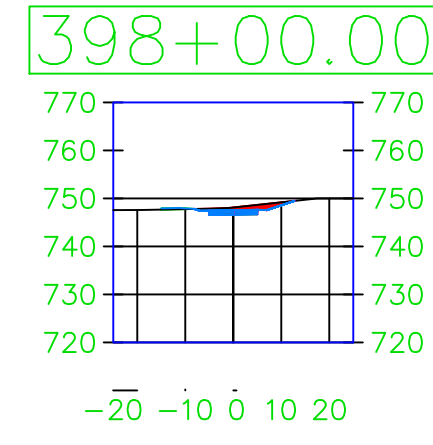
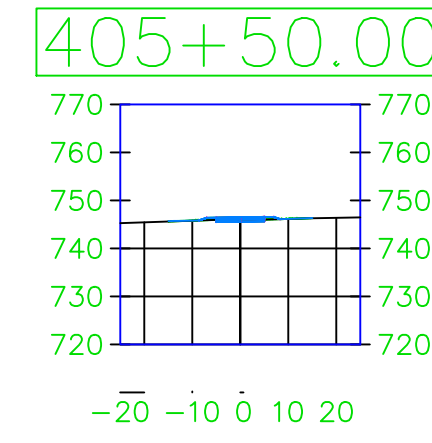
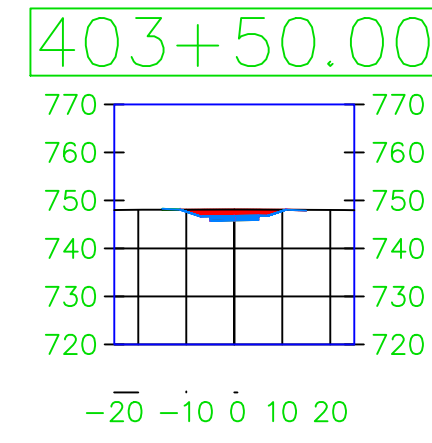
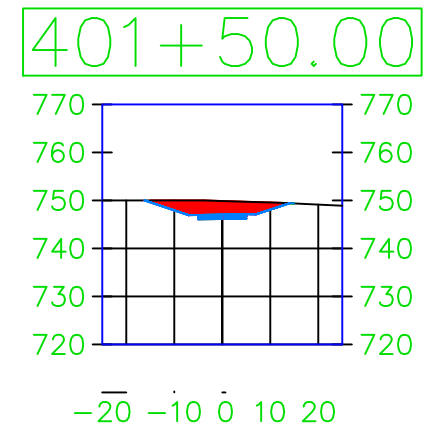
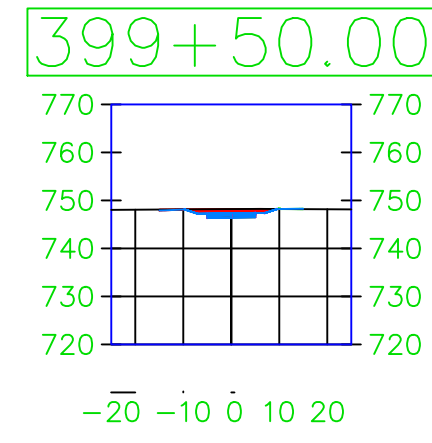
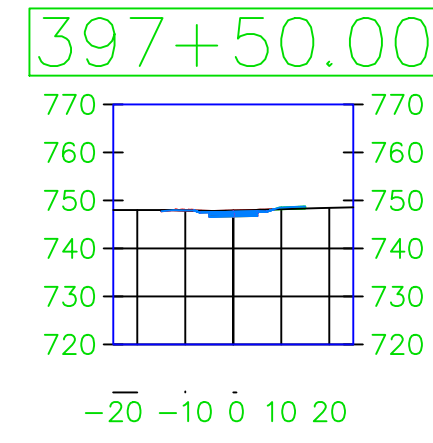
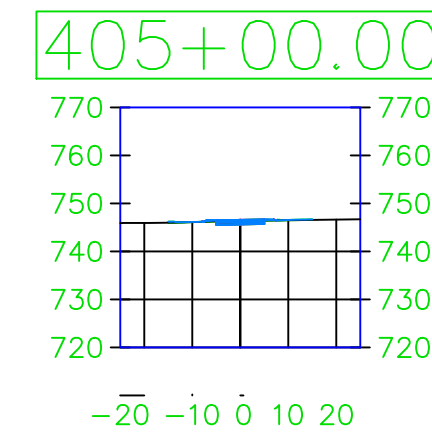
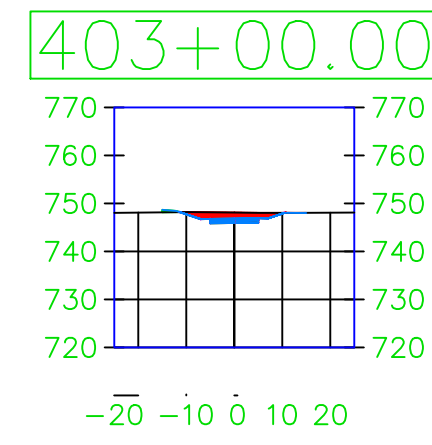
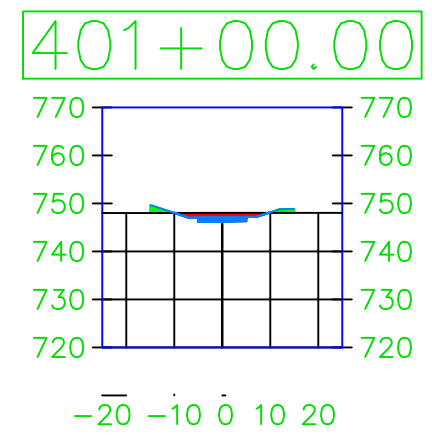
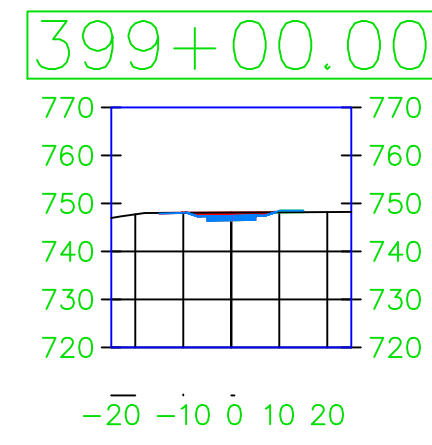
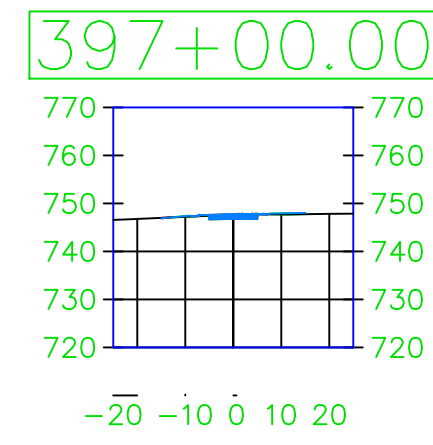


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Volga Trail

SHEET NAME
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SHEET NO.
XX



PROJECT: CEE: 4850

DATE : 4/17/2020

DRAWN BY: cds

REVISION:

THE UNIVERSITY OF IOWA

CIVIL AND ENVIRONMENTAL ENGINEERING

4105 SEAMANS CENTER FOR THE

ENGINEERING ARTS AND SCIENCES

103 S CAPITOL ST

IOWA CITY, IOWA 52242

PHONE: 319.335.5647

FAX: 319.335.5660

EMAIL: civil-hawks@iowa.edu



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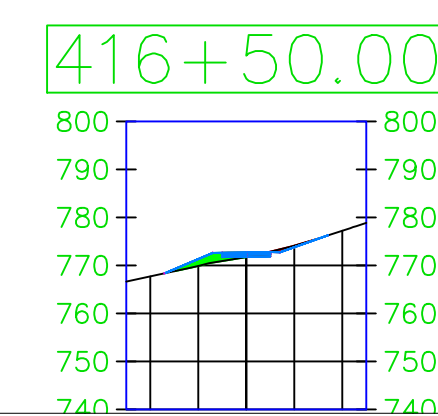
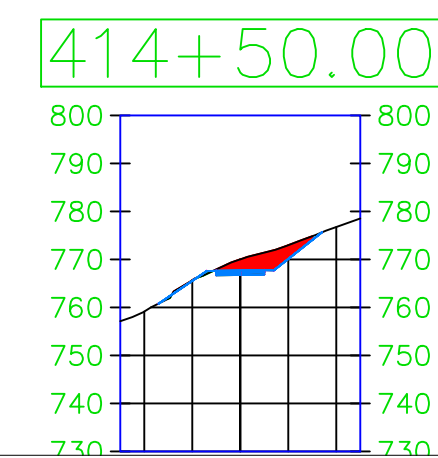
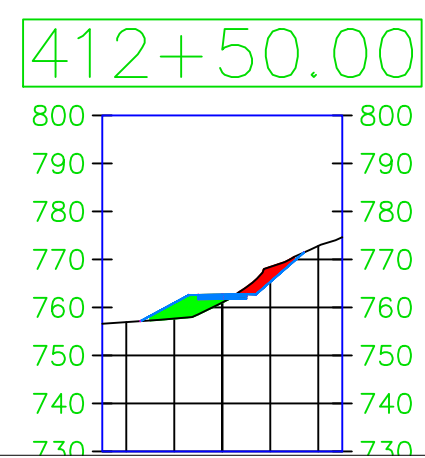
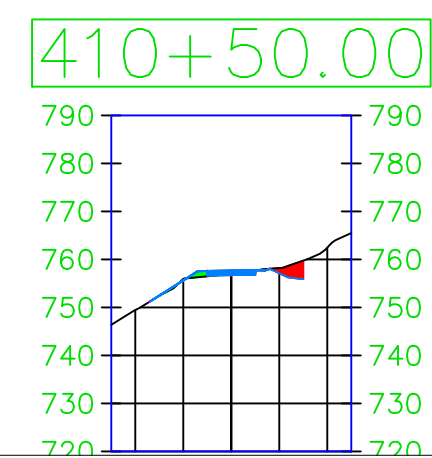
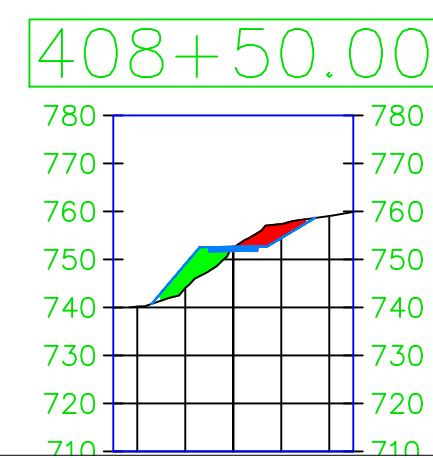
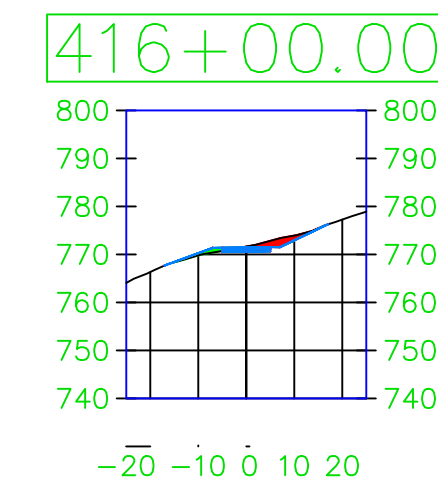
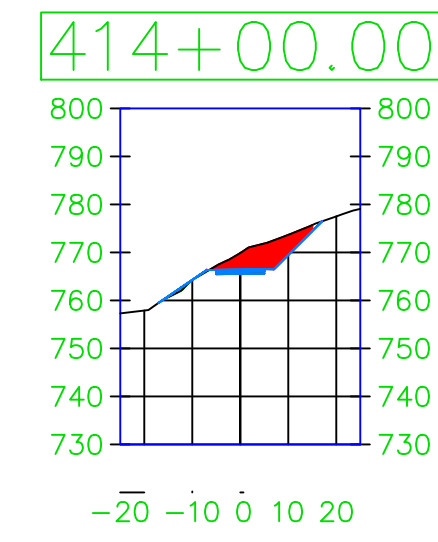
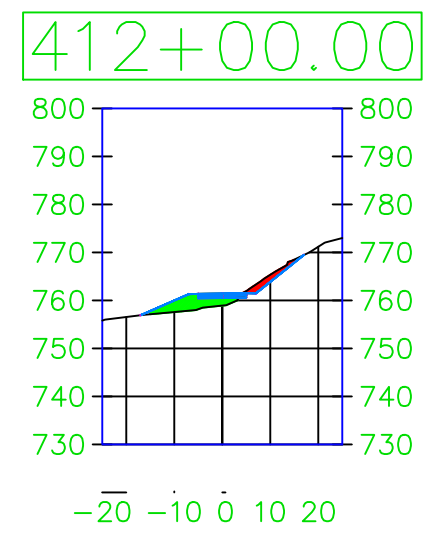
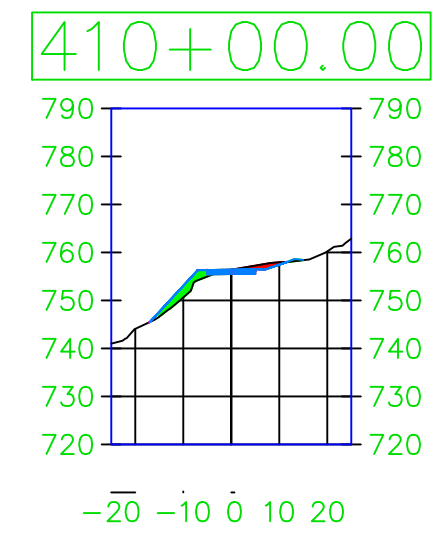
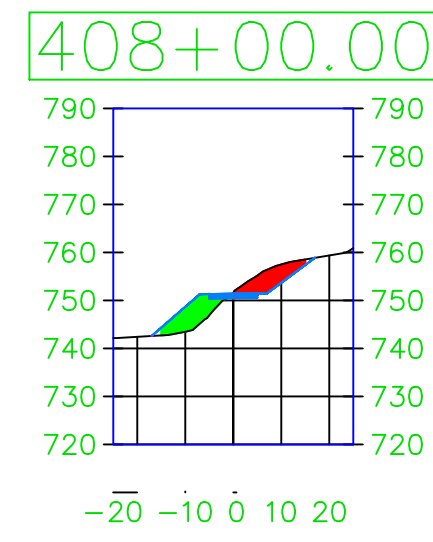
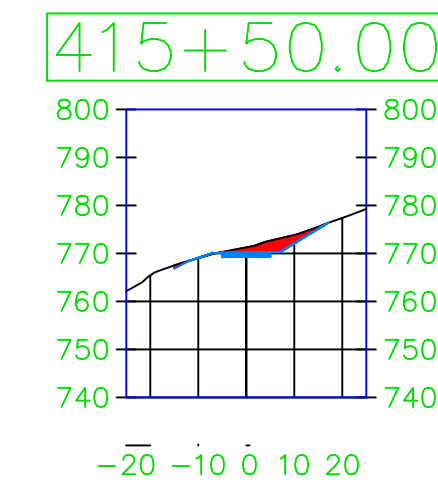
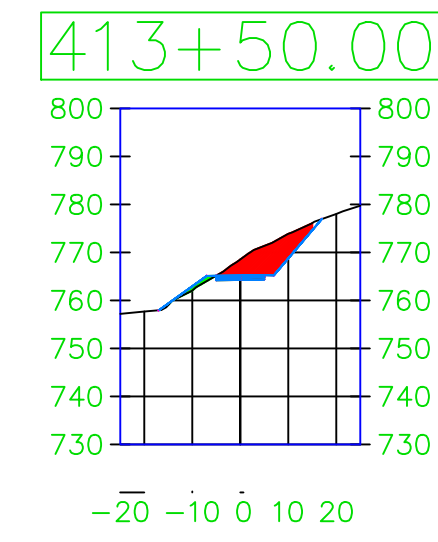
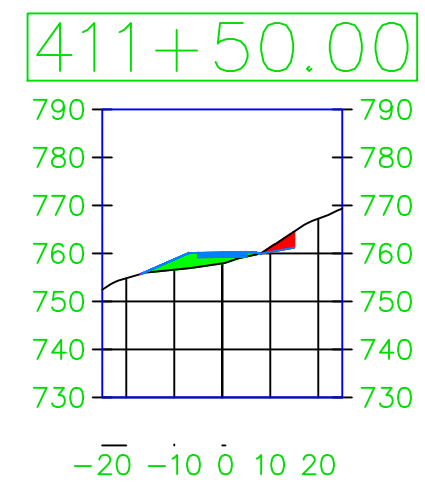
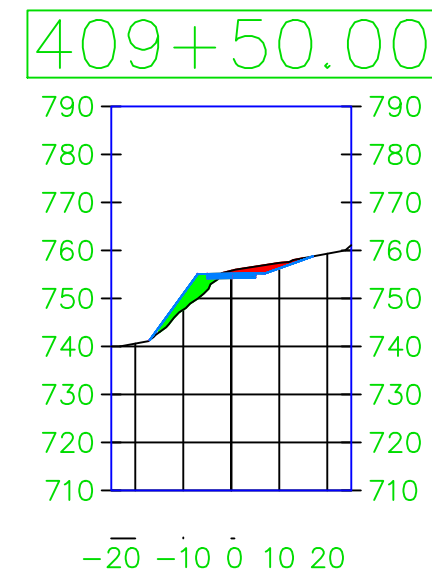
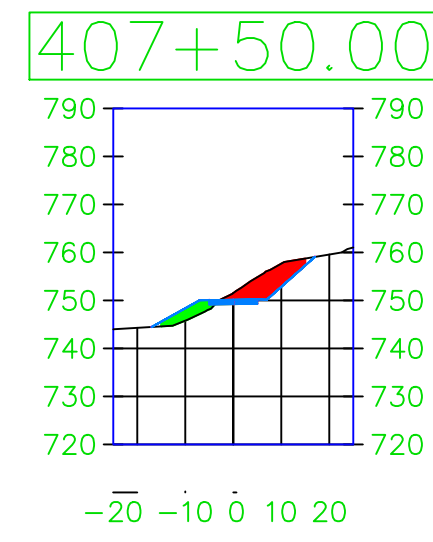
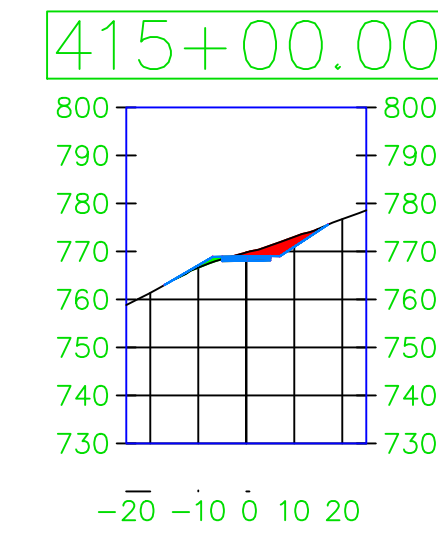
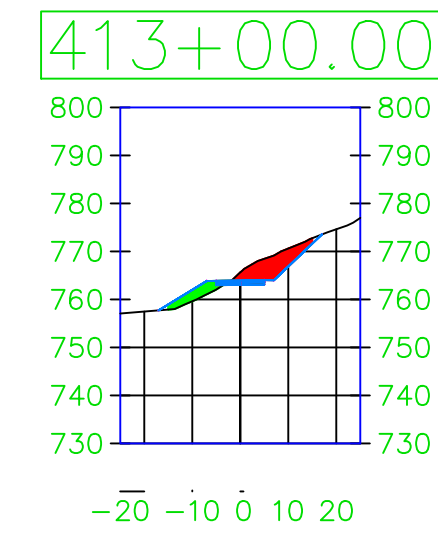
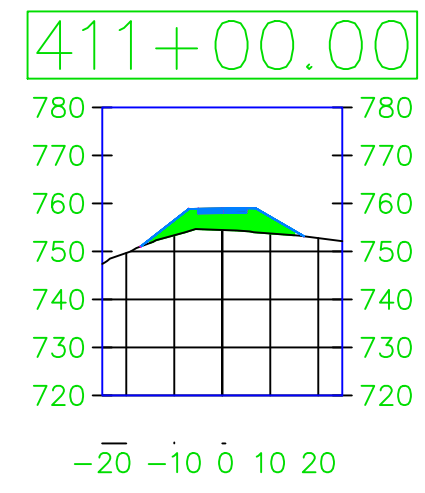
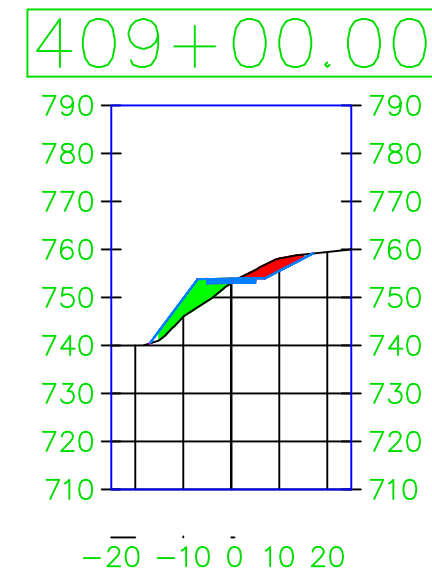
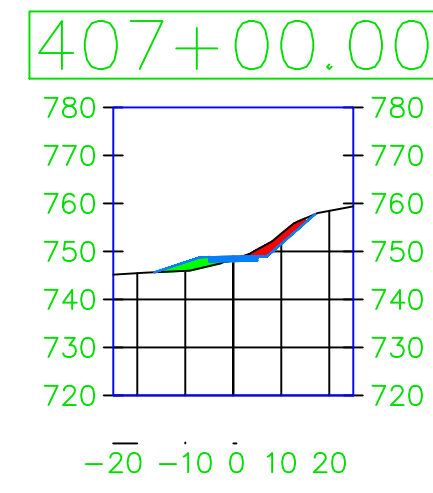
Volga Trail

SHEET NAME

SHEET NAME 1
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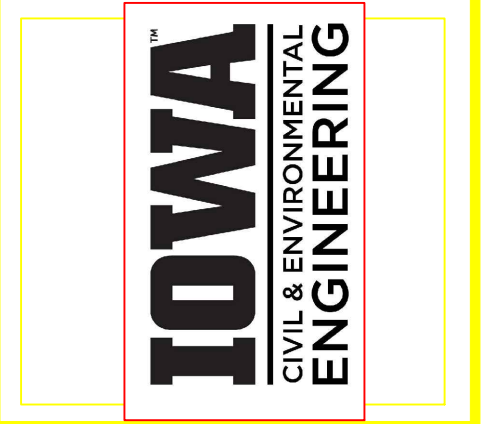
SHEET NO.

XX



PROJECT:	CEE: 4850
DATE :	4/17/2020
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REVISION:	

THE UNIVERSITY OF IOWA
CIVIL AND ENVIRONMENTAL ENGINEERING
 4105 SEAMANS CENTER FOR THE
 ENGINEERING ARTS AND SCIENCES
 103 S CAPITOL ST
 IOWA CITY, IOWA 52242
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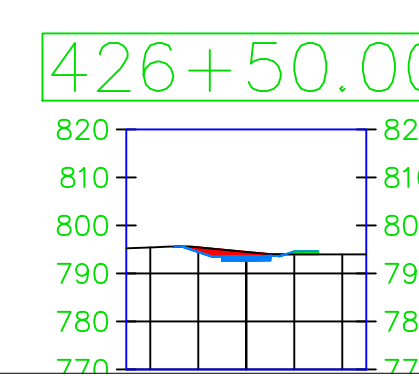
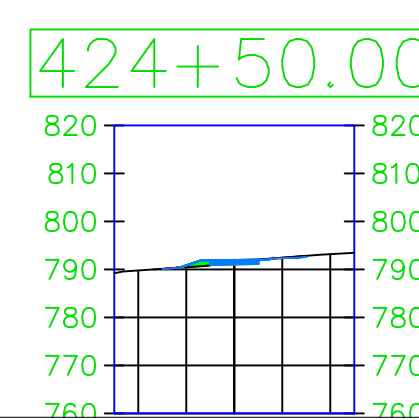
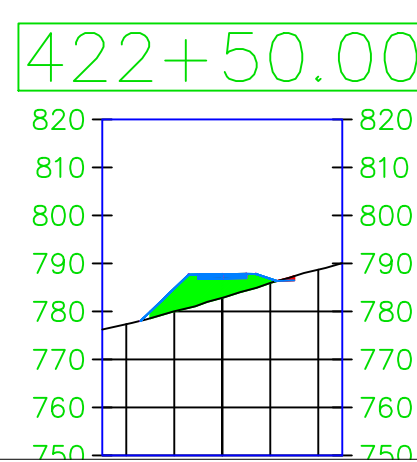
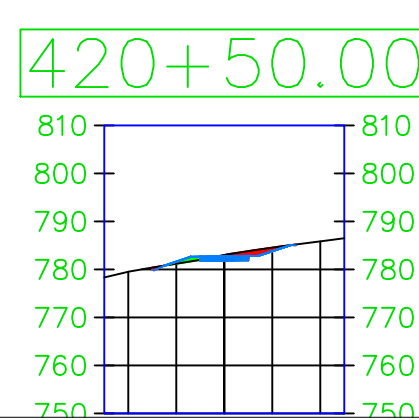
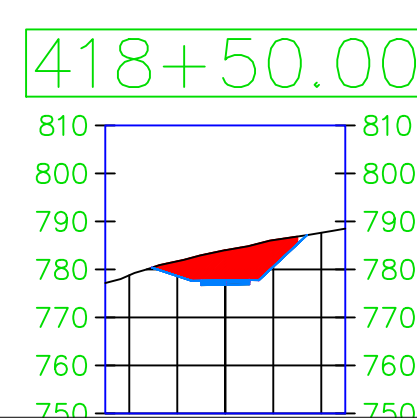
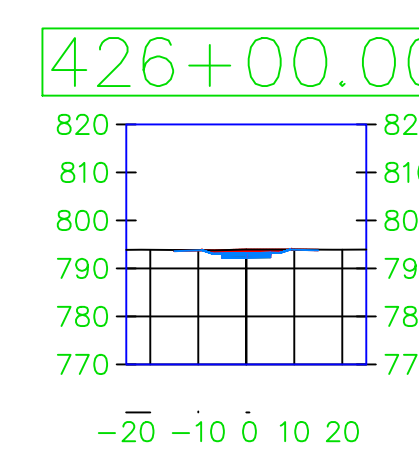
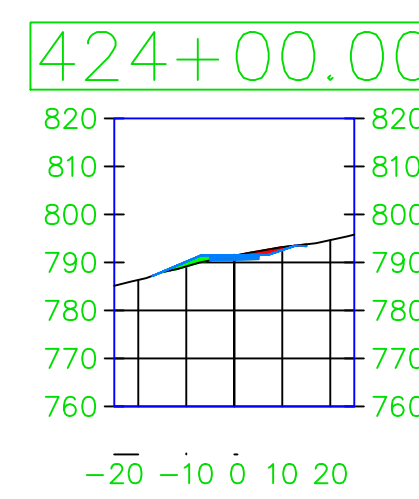
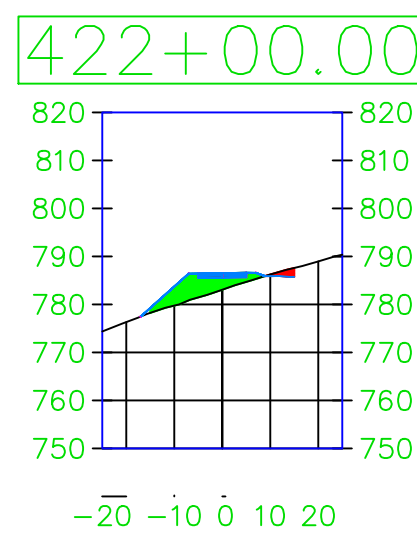
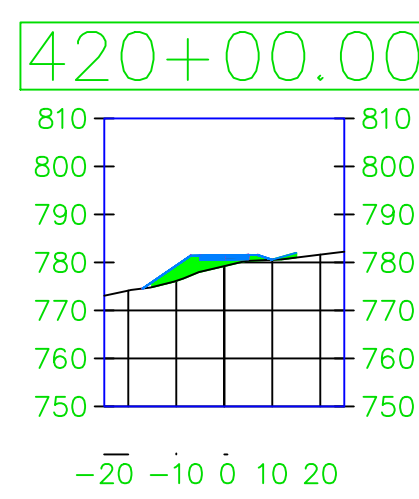
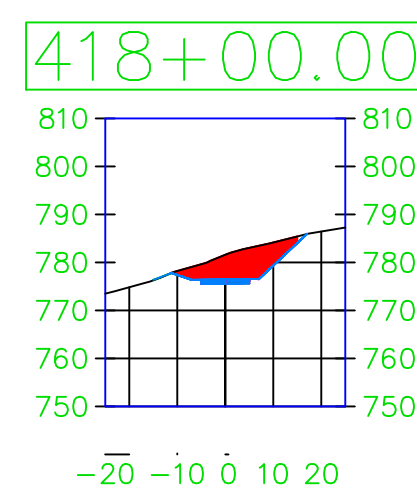
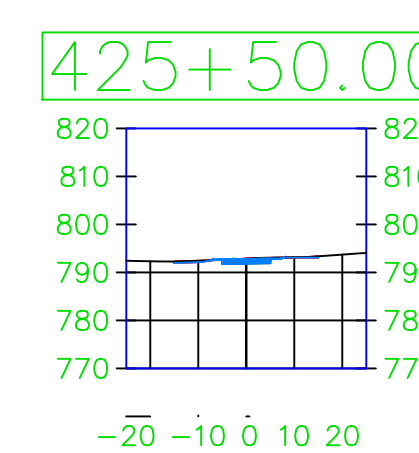
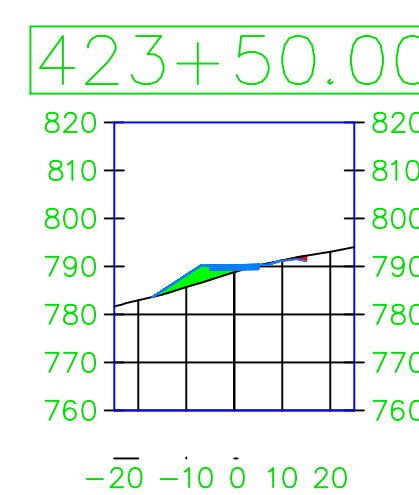
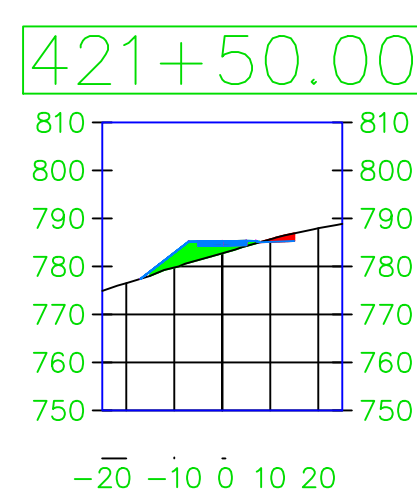
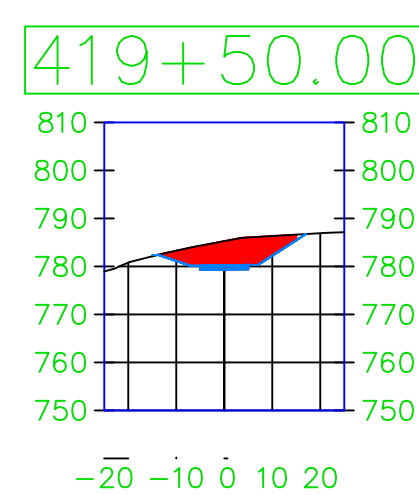
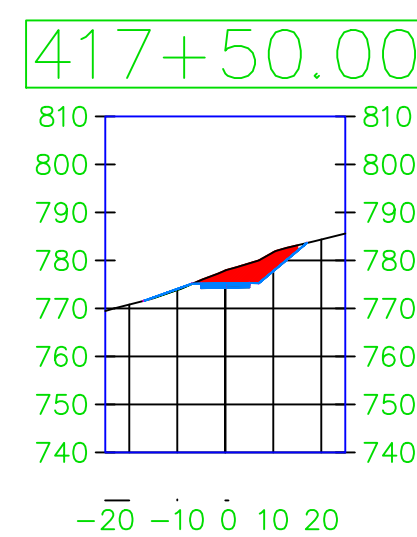
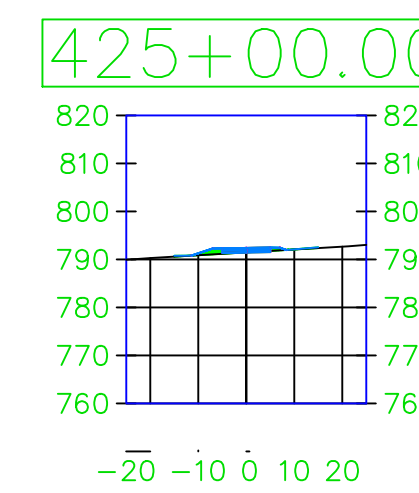
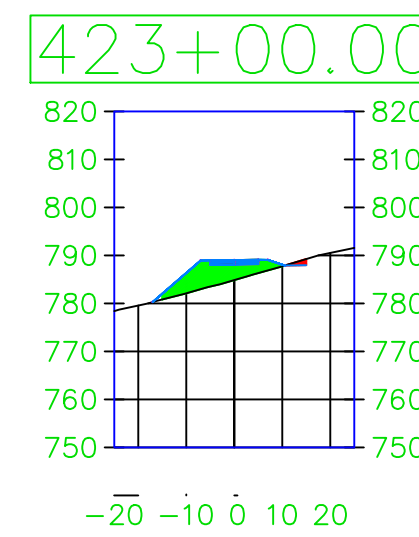
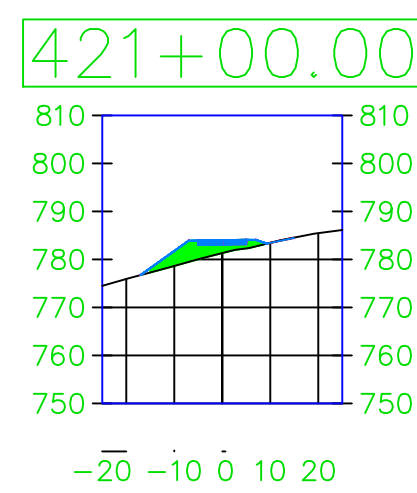
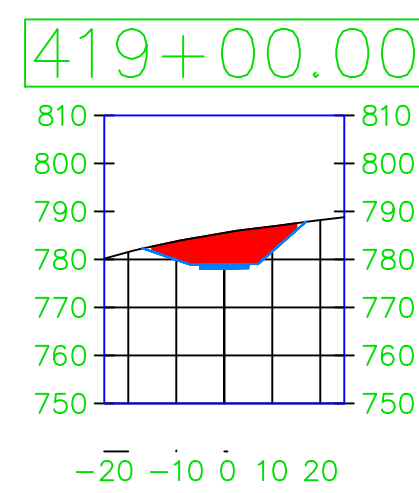
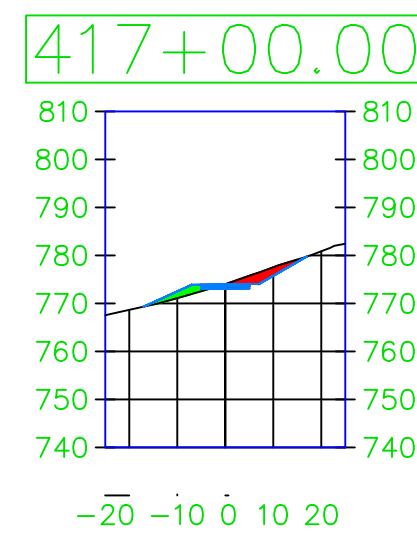


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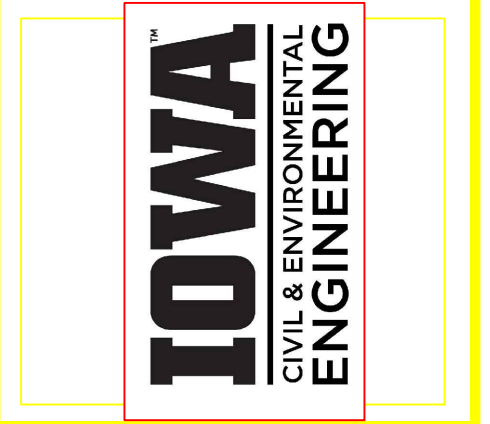
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XX



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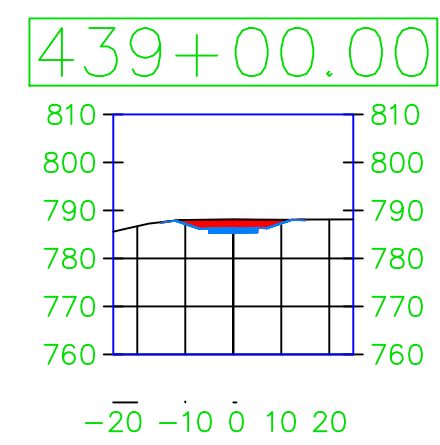
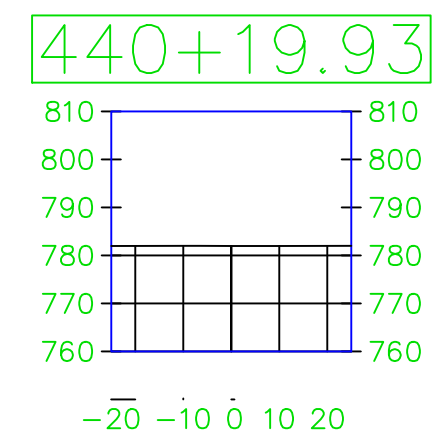
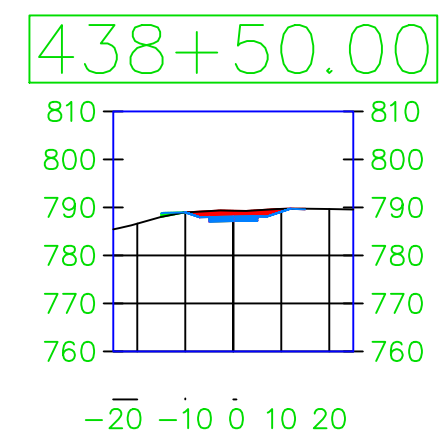
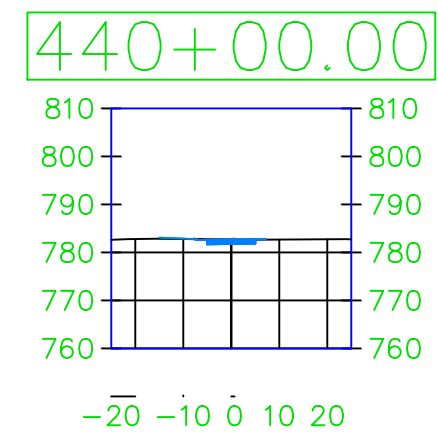
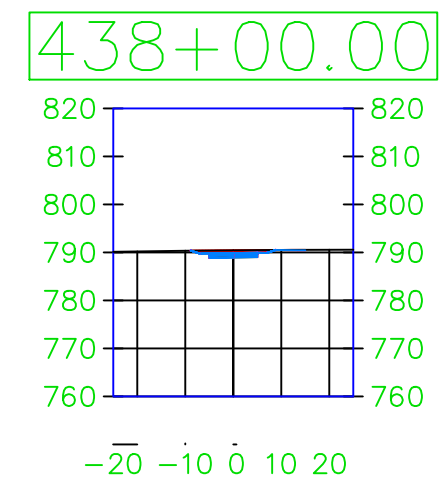
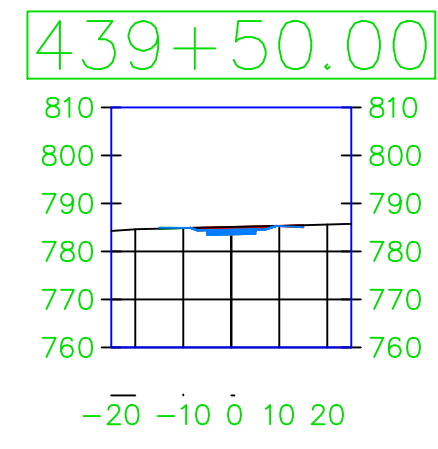
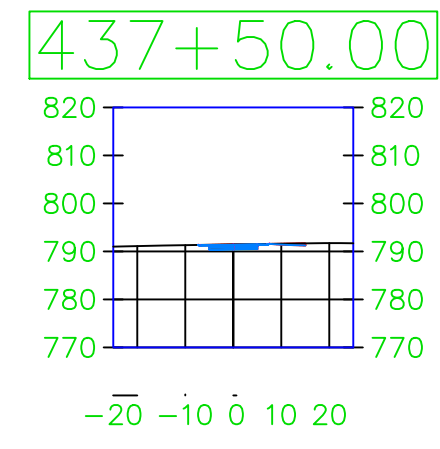


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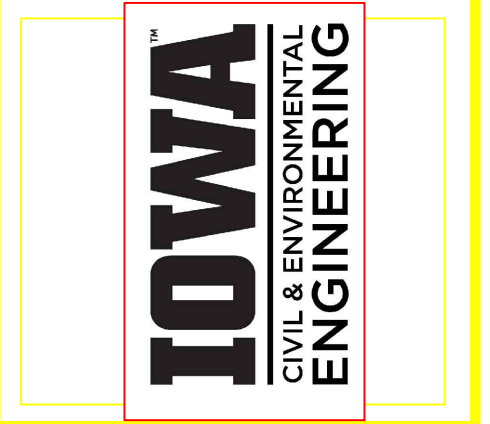
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XX

CUT & FILL

Total Volume Table						
Station	Fill Area	Cut Area	Fill Volume	Cut Volume	Cumulative Fill Vol	Cumulative Cut Vol
0+00.00	0.51	0.46	0.00	0.00	0.00	0.00
0+50.00	20.00	0.08	14.63	0.46	14.63	0.46
1+00.00	32.21	0.22	47.90	0.27	62.53	0.73
1+50.00	25.62	6.63	53.43	4.98	115.96	5.71
2+00.00	29.23	0.25	50.75	5.04	166.70	10.75
2+50.00	23.92	0.09	49.12	0.31	215.83	11.06
3+00.00	18.99	0.19	39.64	0.26	255.47	11.32
3+50.00	15.77	0.15	32.15	0.32	287.62	11.63
4+00.00	9.56	0.14	23.22	0.27	310.83	11.90
4+50.00	5.33	0.10	13.59	0.22	324.42	12.12
5+00.00	5.08	0.08	9.64	0.16	334.06	12.28
5+50.00	8.57	0.00	12.51	0.05	346.56	12.33
6+00.00	11.06	0.00	18.13	0.00	364.69	12.33
6+50.00	7.77	0.02	17.35	0.01	382.04	12.34
7+00.00	2.92	3.69	9.54	2.44	391.58	14.78
7+50.00	1.69	0.56	4.21	3.52	395.79	18.30
8+00.00	4.49	0.28	5.51	0.77	401.29	19.06
8+50.00	4.76	0.11	8.56	0.34	409.85	19.41
9+00.00	1.45	0.48	5.45	0.50	415.30	19.91
9+50.00	3.15	0.44	4.15	0.86	419.46	20.76

CUT & FILL

Total Volume Table						
Station	Fill Area	Cut Area	Fill Volume	Cut Volume	Cumulative Fill Vol	Cumulative Cut Vol
30+00.00	9.55	1.44	16.06	2.92	940.16	217.16
30+50.00	0.00	22.68	5.90	18.41	946.05	235.56
31+00.00	26.67	2.92	16.46	20.82	962.52	256.38
31+50.00	17.57	9.29	40.67	10.75	1003.19	267.14
32+00.00	0.00	8.34	10.84	16.32	1014.03	283.45
32+50.00	0.28	2.04	0.17	8.96	1014.20	292.41
33+00.00	3.53	1.44	2.96	3.21	1017.16	295.61
33+50.00	6.98	1.38	9.55	2.61	1026.71	298.22
34+00.00	5.12	10.42	11.17	9.63	1037.88	307.85
34+50.00	15.72	6.35	18.41	15.37	1056.29	323.23
35+00.00	4.13	2.07	17.23	7.44	1073.52	330.66
35+50.00	3.31	6.83	6.87	7.82	1080.39	338.48
36+00.00	2.33	3.38	5.20	9.27	1085.59	347.75
36+50.00	0.33	9.34	2.19	11.33	1087.78	359.08
37+00.00	1.35	3.35	1.45	11.29	1089.23	370.37
37+50.00	0.82	5.35	1.99	7.99	1091.22	378.35
38+00.00	0.14	6.64	0.80	11.08	1092.02	389.44
38+50.00	0.00	6.09	0.08	11.78	1092.10	401.22
39+00.00	0.02	7.20	0.01	12.29	1092.11	413.51
39+50.00	0.31	5.82	0.25	12.03	1092.36	425.54

CUT & FILL

Total Volume Table						
Station	Fill Area	Cut Area	Fill Volume	Cut Volume	Cumulative Fill Vol	Cumulative Cut Vol
60+00.00	8.82	2.67	14.82	11.15	1338.42	730.90
60+50.00	13.80	0.05	20.78	1.90	1359.20	732.80
61+00.00	9.64	0.05	21.59	0.09	1380.79	732.89
61+50.00	2.57	1.51	10.60	1.13	1391.39	734.01
62+00.00	1.08	0.20	3.28	1.39	1394.67	735.40
62+50.00	0.99	0.38	1.92	0.52	1396.59	735.92
63+00.00	1.32	0.30	2.14	0.63	1398.72	736.55
63+50.00	3.51	0.14	4.32	0.40	1403.04	736.95
64+00.00	1.22	0.28	4.20	0.39	1407.24	737.34
64+50.00	3.23	0.66	3.97	0.85	1411.21	738.19
65+00.00	3.46	2.24	6.19	2.54	1417.41	740.73
65+50.00	2.67	0.27	5.66	2.03	1423.06	742.76
66+00.00	7.61	0.05	9.13	0.27	1432.19	743.03
66+50.00	2.78	0.24	9.25	0.25	1441.44	743.27
67+00.00	0.91	0.90	3.26	0.99	1444.70	744.27
67+50.00	0.30	7.11	1.08	6.50	1445.78	750.77
68+00.00	1.87	14.08	1.81	19.26	1447.59	770.02
68+50.00	4.11	4.28	5.40	16.12	1452.99	786.14
69+00.00	9.26	1.38	12.06	5.00	1465.05	791.14
69+50.00	2.82	2.19	10.61	3.28	1475.66	794.42

Total Volume Table						
Station	Fill Area	Cut Area	Fill Volume	Cut Volume	Cumulative Fill Vol	Cumulative Cut Vol
10+00.00	3.06	0.45	5.75	0.83	425.20	21.59
10+50.00	3.23	2.51	5.82	2.48	431.03	24.07
11+00.00	6.29	1.40	8.66	3.57	439.69	27.65
11+50.00	6.98	0.30	12.28	1.46	451.97	29.10
12+00.00	10.50	0.31	16.07	0.57	468.04	29.67
12+50.00	4.99	0.89	14.03	1.06	482.06	30.73
13+00.00	6.53	2.36	10.64	2.90	492.70	33.63
13+50.00	12.72	0.12	17.51	1.86	510.21	35.49
14+00.00	0.00	47.21	7.85	30.70	518.06	66.19
14+50.00	79.54	0.10	49.10	30.55	567.16	96.74
15+00.00	32.75	8.19	100.82	5.68	667.97	102.42
15+50.00	21.20	4.35	49.57	11.43	717.54	113.85
16+00.00	7.03	3.04	24.97	6.81	742.51	120.66
16+50.00	5.72	5.93	11.79	8.16	754.30	128.82
17+00.00	5.01	1.50	9.93	6.43	764.23	135.25
17+50.00	0.05	8.55	3.44	8.41	767.67	143.67
18+00.00	7.66	0.61	5.15	7.06	772.82	150.73
18+50.00	5.31	3.63	11.94	3.54	784.76	154.27
19+00.00	0.79	1.21	5.03	4.28	789.79	158.55
19+50.00	3.15	0.01	3.40	0.81	793.19	159.36

Total Volume Table						
Station	Fill Area	Cut Area	Fill Volume	Cut Volume	Cumulative Fill Vol	Cumulative Cut Vol
40+00.00	0.00	8.02	0.19	12.75	1092.55	438.30
40+50.00	2.83	11.69	1.75	18.14	1094.29	456.43
41+00.00	2.28	5.40	4.72	15.46	1099.01	471.89
41+50.00	2.45	8.36	4.38	12.65	1103.40	484.54
42+00.00	0.12	5.49	1.92	12.73	1105.32	497.27
42+50.00	0.84	10.62	0.78	14.66	1106.10	511.93
43+00.00	0.81	2.03	1.53	10.68	1107.63	522.61
43+50.00	7.12	3.26	6.39	4.85	1114.02	527.45
44+00.00	0.86	1.85	6.46	4.67	1120.47	532.12
44+50.00	0.39	2.66	1.13	4.15	1121.61	536.27
45+00.00	0.59	2.69	0.90	4.95	1122.51	541.22
45+50.00	1.03	0.09	1.49	2.02	1124.00	543.24
46+00.00	1.03	0.08	1.91	0.16	1125.90	543.40
46+50.00	0.86	0.27	1.75	0.31	1127.65	543.71
47+00.00	0.76	0.25	1.50	0.48	1129.15	544.19
47+50.00	2.79	0.16	3.09	0.38	1132.25	544.57
48+00.00	0.81	0.40	3.16	0.51	1135.40	545.08
48+50.00	0.00	5.75	0.50	4.74	1135.90	549.81
49+00.00	3.41	0.41	2.11	4.76	1138.01	554.57
49+50.00	0.81	0.95	3.64	1.23	1141.65	555.79

Total Volume Table						
Station	Fill Area	Cut Area	Fill Volume	Cut Volume	Cumulative Fill Vol	Cumulative Cut Vol
70+00.00	0.59	3.77	2.90	5.45	1478.56	799.88
70+50.00	2.17	0.09	2.40	2.74	1480.96	802.62
71+00.00	3.20	0.00	4.94	0.07	1485.90	802.69
71+50.00	0.41	0.56	2.94	0.38	1488.84	803.07
72+00.00	0.06	0.90	0.39	1.34	1489.24	804.41
72+50.00	0.13	1.57	0.18	2.26	1489.41	806.66
73+00.00	0.60	0.88	0.62	2.23	1490.03	808.89
73+50.00	0.58	0.88	1.09	1.63	1491.13	810.52
74+00.00	1.01	1.50	1.46	2.18	1492.59	812.71
74+50.00	0.47	3.64	1.34	4.62	1493.93	817.33
75+00.00	3.28	0.52	3.09	3.43	1497.02	820.75
75+50.00	4.81	1.24	7.45	1.59	1504.47	822.34
76+00.00	4.38	2.80	8.51	3.65	1512.98	825.99
76+50.00	3.90	4.13	7.66	6.38	1520.65	832.37
77+00.00	6.63	0.22	9.63	3.27	1530.28	835.64
77+50.00	1.73	3.23	7.24	2.65	1537.52	838.29
78+00.00	1.96	5.00	3.41	7.56	1540.93	845.85
78+50.00	0.68	8.82	2.34	12.63	1543.27	858.48
79+00.00	1.95	3.06	2.33	10.54	1545.60	869.02
79+50.00	3.86	0.65	5.28	3.16	1550.88	872.19

Total Volume Table						
Station	Fill Area	Cut Area	Fill Volume	Cut Volume	Cumulative Fill Vol	Cumulative Cut Vol
20+00.00	0.83	0.72	3.45	0.49	796.64	159.85
20+50.00	1.83	1.97	2.40	2.39	799.05	162.24
21+00.00	7.75	0.19	8.24	1.71	807.28	163.95
21+50.00	2.55	1.28	9.10	1.21	816.39	165.16
22+00.00	0.00	3.81	1.58	4.51	817.96	169.67
22+50.00	7.45	0.85	4.60	3.98	822.56	173.66
23+00.00	0.11	3.78	5.22	3.96	827.78	177.62
23+50.00	0.50	7.13	0.52	9.94	828.30	187.56
24+00.00	0.08	5.98	0.48	12.12	828.78	199.68
24+50.00	4.22	0.03	3.02	3.97	831.80	203.65
25+00.00	5.28	0.01	8.78	0.03	840.57	203.68
25+50.00	4.18	0.33	8.73	0.23	849.31	203.91
26+00.00	3.30	1.47	6.91	1.54	856.21	205.45
26+50.00	10.62	0.00	12.24	0.91	868.46	206.36
27+00.00	4.46	0.32	13.56	0.20	882.01	206.55
27+50.00	2.52	0.24	6.38	0.51	888.39	207.07
28+00.00	5.02	1.05	6.85	1.10	895.24	208.17
28+50.00	5.02	0.18	9.29	1.02	904.53	209.20
29+00.00	4.24	1.93	8.56	1.66	913.09	210.86
29+50.00	7.82	1.72	11.00	3.38	924.10	214.24

Total Volume Table						
Station	Fill Area	Cut Area	Fill Volume	Cut Volume	Cumulative Fill Vol	Cumulative Cut Vol
50+00.00	1.07	2.96	1.74	3.44	1143.39	559.24
50+50.00	5.32	0.00	5.42	1.88	1148.81	561.11
51+00.00	1.49	7.02	5.95	4.41	1154.75	565.53
51+50.00	0.23	8.36	1.43	14.22	1156.18	579.75

CUT & FILL

Total Volume Table						
Station	Fill Area	Cut Area	Fill Volume	Cut Volume	Cumulative Fill Vol	Cumulative Cut Vol
90+00.00	1.36	5.08	2.45	11.13	1609.17	1021.93
90+50.00	1.32	3.49	2.48	7.89	1611.65	1029.82
91+00.00	3.82	0.83	4.56	3.72	1616.21	1033.54
91+50.00	0.08	7.69	2.76	6.82	1618.97	1040.35
92+00.00	3.87	1.54	2.79	7.82	1621.76	1048.17
92+50.00	2.79	1.44	6.14	2.75	1627.90	1050.92
93+00.00	6.50	0.00	8.36	0.91	1636.26	1051.84
93+50.00	6.89	0.41	12.40	0.26	1648.66	1052.10
94+00.00	2.75	1.72	8.64	1.83	1657.30	1053.93
94+50.00	0.15	2.92	2.19	4.25	1659.48	1058.17
95+00.00	0.74	1.79	0.75	4.32	1660.23	1062.49
95+50.00	0.08	3.65	0.66	4.94	1660.89	1067.44
96+00.00	0.25	2.56	0.29	5.73	1661.18	1073.16
96+50.00	0.09	2.55	0.30	4.73	1661.48	1077.90
97+00.00	0.96	2.70	0.83	4.86	1662.31	1082.76
97+50.00	0.68	2.27	1.51	4.60	1663.82	1087.36
98+00.00	0.10	2.71	0.63	4.61	1664.45	1091.97
98+50.00	0.00	3.26	0.06	5.52	1664.51	1097.49
99+00.00	6.92	0.60	4.27	3.24	1668.78	1100.73
99+50.00	10.99	0.96	16.44	1.43	1685.22	1102.16

Total Volume Table						
Station	Fill Area	Cut Area	Fill Volume	Cut Volume	Cumulative Fill Vol	Cumulative Cut Vol
100+00.00	13.01	0.70	22.19	1.53	1707.41	1103.69
100+50.00	16.02	1.05	26.83	1.61	1734.25	1105.30
101+00.00	30.47	1.76	42.34	2.58	1776.58	1107.88
101+50.00	72.22	0.00	92.34	1.09	1868.93	1108.97
102+00.00	23.08	4.07	84.03	2.51	1952.95	1111.49
102+50.00	0.00	10.28	14.24	12.85	1967.20	1124.34
103+00.00	0.00	7.71	0.00	16.60	1967.20	1140.93
103+50.00	0.00	7.32	0.00	13.91	1967.20	1154.85
104+00.00	0.00	6.23	0.00	12.53	1967.20	1167.38
104+50.00	0.00	5.02	0.00	10.40	1967.20	1177.78
105+00.00	0.00	4.99	0.00	9.27	1967.20	1187.05
105+50.00	0.15	8.88	0.09	12.67	1967.29	1199.72
106+00.00	5.79	0.00	4.25	5.48	1971.54	1205.20
106+50.00	1.78	0.23	6.65	0.14	1978.19	1205.34
107+00.00	2.45	0.00	3.89	0.14	1982.08	1205.48
107+50.00	2.15	2.68	4.25	1.66	1986.34	1207.14
108+00.00	0.66	3.76	2.47	5.94	1988.81	1213.07
108+50.00	0.36	2.46	0.93	5.71	1989.74	1218.78
109+00.00	2.22	0.06	2.15	1.79	1991.89	1220.57
109+50.00	1.04	0.43	2.96	0.40	1994.85	1220.98

Total Volume Table						
Station	Fill Area	Cut Area	Fill Volume	Cut Volume	Cumulative Fill Vol	Cumulative Cut Vol
110+00.00	0.86	2.53	1.76	2.48	1996.61	1223.46
110+50.00	0.82	5.69	1.56	7.42	1998.16	1230.88
111+00.00	5.58	4.62	5.27	9.53	2003.44	1240.41
111+50.00	1.26	0.09	5.86	3.31	2009.29	1243.71
112+00.00	1.08	0.38	2.16	0.40	2011.45	1244.12
112+50.00	1.62	6.71	2.48	5.36	2013.93	1249.48
113+00.00	0.26	18.24	1.57	22.24	2015.49	1271.71
113+50.00	7.42	0.48	5.61	13.38	2021.10	1285.10
114+00.00	23.33	6.30	27.10	5.26	2048.20	1290.36
114+50.00	57.24	4.22	72.29	9.68	2120.50	1300.03
115+00.00	52.62	6.96	101.70	10.24	2222.20	1310.27
115+50.00	37.19	17.36	82.75	21.79	2304.95	1332.07
116+00.00	17.28	32.74	49.27	45.65	2354.22	1377.71
116+50.00	22.79	31.11	36.98	59.12	2391.20	1436.83
117+00.00	20.49	34.06	40.06	60.32	2431.26	1497.15
117+50.00	37.09	19.12	52.55	48.58	2483.81	1545.73
118+00.00	29.32	27.52	61.35	42.96	2545.16	1588.68
118+50.00	30.89	28.17	55.74	51.57	2600.90	1640.25
119+00.00	24.70	22.67	51.36	46.98	2652.26	1687.23
119+50.00	24.55	22.98	45.60	42.27	2697.87	1729.50

CUT & FILL

Total Volume Table						
Station	Fill Area	Cut Area	Fill Volume	Cut Volume	Cumulative Fill Vol	Cumulative Cut Vol
120+00.00	13.16	24.36	34.38	43.83	2732.24	1773.32
120+50.00	14.25	5.94	25.38	26.13	2757.62	1799.46
121+00.00	8.13	7.32	20.47	12.26	2778.09	1811.72
121+50.00	3.79	12.35	10.79	18.02	2788.88	1829.73
122+00.00	0.34	22.39	3.25	31.71	2792.13	1861.45
122+50.00	2.47	17.64	2.30	36.98	2794.43	1898.43
123+00.00	12.22	2.42	12.46	16.42	2806.89	1914.85
123+50.00	25.72	0.58	34.36	2.59	2841.24	1917.44
124+00.00	1.60	16.21	20.81	12.26	2862.06	1929.70
124+50.00	1.23	10.77	2.61	24.81	2864.67	1954.51
125+00.00	1.16	14.91	2.21	23.68	2866.88	1978.19
125+50.00	6.96	11.03	6.76	23.93	2873.63	2002.12
126+00.00	3.23	46.43	9.21	49.44	2882.84	2051.55
126+50.00	21.75	9.02	20.59	46.85	2903.43	2098.41
127+00.00	20.61	15.61	39.21	22.53	2942.65	2120.94
127+50.00	33.67	0.01	49.76	9.85	2992.41	2130.79
128+00.00	13.83	0.03	42.64	0.03	3035.05	2130.82
128+50.00	3.47	0.04	14.96	0.06	3050.01	2130.88
129+00.00	7.10	0.10	9.60	0.13	3059.61	2131.01
129+50.00	8.04	0.42	14.02	0.44	3073.62	2131.46

Total Volume Table						
Station	Fill Area	Cut Area	Fill Volume	Cut Volume	Cumulative Fill Vol	Cumulative Cut Vol
130+00.00	4.61	9.62	11.57	7.44	3085.19	2138.89
130+50.00	3.47	6.54	7.46	14.88	3092.66	2153.77
131+00.00	15.38	1.28	16.15	6.61	3108.81	2160.38
131+50.00	5.09	6.33	18.09	6.45	3126.90	2166.83
132+00.00	17.77	3.22	19.98	8.68	3146.88	2175.51
132+50.00	0.45	17.17	12.99	17.18	3159.87	2192.68
133+00.00	27.95	7.04	19.72	21.73	3179.59	2214.42
133+50.00	11.04	1.09	34.92	6.73	3214.51	2221.15
134+00.00	7.57	0.26	17.13	1.16	3231.64	2222.31
134+50.00	0.02	2.71	4.94	2.34	3236.58	2224.65
135+00.00	0.17	4.79	0.16	6.85	3236.74	2231.50
135+50.00	4.98	1.41	3.75	5.43	3240.49	2236.93
136+00.00	0.32	2.29	4.06	3.39	3244.54	2240.32
136+50.00	0.21	1.92	0.49	3.89	3245.03	2244.20
137+00.00	0.10	1.39	0.28	3.05	3245.32	2247.25
137+50.00	0.08	1.23	0.17	2.42	3245.48	2249.67
138+00.00	0.12	1.06	0.19	2.12	3245.67	2251.80
138+50.00	0.12	0.85	0.23	1.77	3245.90	2253.57
139+00.00	4.26	0.69	3.14	1.42	3249.04	2254.99
139+50.00	2.43	0.63	6.11	1.22	3255.15	2256.21

Total Volume Table						
Station	Fill Area	Cut Area	Fill Volume	Cut Volume	Cumulative Fill Vol	Cumulative Cut Vol
140+00.00	2.91	0.56	4.94	1.11	3260.09	2257.31
140+50.00	0.36	0.51	2.65	0.99	3262.74	2258.31
141+00.00	0.46	0.45	0.76	0.88	3263.50	2259.19
141+50.00	0.64	0.41	1.01	0.79	3264.51	2259.98
142+00.00	0.88	0.35	1.40	0.70	3265.90	2260.68
142+50.00	1.02	0.30	1.76	0.60	3267.66	2261.28
143+00.00	1.28	0.25	2.13	0.51	3269.79	2261.79
143+50.00	1.60	0.21	2.65	0.43	3272.44	2262.22
144+00.00	1.93	0.18	3.26	0.37	3275.70	2262.59
144+50.00	2.60	0.15	4.18	0.31	3279.87	2262.90
145+00.00	0.87	0.19	3.08	0.32	3282.95	2263.22
145+50.00	0.86	0.26	1.60	0.42	3284.55	2263.64
146+00.00	0.85	1.09	1.58	1.17	3286.14	2264.81
146+50.00	0.93	0.67	1.65	1.61	3287.79	2266.42
147+00.00	1.00	0.59	1.79	1.16	3289.57	2267.59
147+50.00	1.08	0.64	1.93	1.14	3291.50	2268.73
148+00.00	1.16	0.77	2.07	1.30	3293.57	2270.03
148+50.00	1.24	6.31	2.22	5.73	3295.79	2275.76
149+00.00	0.52	0.22	1.58	4.76	3297.37	2280.52
149+50.00	3.53	2.38	3.33	2.05	3300.70	2282.57

CUT & FILL

Total Volume Table						
Station	Fill Area	Cut Area	Fill Volume	Cut Volume	Cumulative Fill Vol	Cumulative Cut Vol
150+00.00	5.32	0.51	8.13	2.47	3308.84	2285.04
150+50.00	0.20	4.34	4.04	3.91	3312.87	2288.95
151+00.00	0.00	0.90	0.12	8.54	3312.99	2297.49
151+50.00	0.12	6.68	0.08	10.68	3313.07	2308.17
152+00.00	0.00	11.90	0.08	16.97	3313.14	2325.14
152+50.00	7.22	0.25	4.45	8.56	3317.60	2333.70
153+00.00	1.30	23.23	7.15	15.99	3324.75	2349.69
153+50.00	33.51	2.33	25.57	20.32	3350.31	2370.01
154+00.00	0.00	19.92	41.37	35.89	3391.68	2405.90
155+00.00	12.98	2.69	8.01	18.48	3399.69	2424.38
155+50.00	1.82	7.09	12.13	8.73	3411.82	2433.12
156+00.00	26.37	0.00	21.67	4.38	3433.49	2437.49
156+50.00	18.43	23.21	41.26	14.33	3474.75	2451.82
157+00.00	40.95	17.92	53.61	37.98	3528.36	2489.80
157+50.00	31.81	13.40	67.19	28.90	3595.55	2518.70
158+00.00	7.99	1.05	34.41	11.23	3629.96	2529.93
158+50.00	2.54	1.96	9.28	2.74	3639.24	2532.68
159+00.00	4.46	0.47	6.39	2.09	3645.63	2534.77
159+50.00	0.60	0.88	4.13	1.23	3649.76	2536.00
160+00.00	0.74	5.34	1.23	5.1		

CUT & FILL

Total Volume Table						
Station	Fill Area	Cut Area	Fill Volume	Cut Volume	Cumulative Fill Vol	Cumulative Cut Vol
180+50.00	0.97	24.02	7.23	16.69	4456.56	3069.89
181+00.00	1.59	42.98	2.34	61.19	4458.90	3131.09
181+50.00	0.01	83.14	1.06	114.75	4459.96	3245.84
182+00.00	0.70	75.48	0.48	146.82	4460.44	3392.66
182+50.00	3.65	39.85	3.66	105.05	4464.11	3497.71
183+00.00	37.22	0.62	32.42	28.06	4496.52	3525.77
183+50.00	11.09	9.98	42.37	8.08	4538.89	3533.85
184+00.00	16.78	0.00	25.63	6.16	4564.52	3540.01
184+50.00	4.16	6.47	18.08	3.99	4582.60	3544.00
185+00.00	3.30	20.39	6.89	23.67	4589.49	3567.67
185+50.00	3.88	22.53	6.64	39.72	4596.13	3607.39
186+00.00	5.40	31.17	8.55	49.51	4604.68	3656.90
186+50.00	1.91	20.42	6.50	47.42	4611.18	3704.32
187+00.00	16.98	4.18	15.18	20.89	4626.36	3725.21
187+50.00	14.94	3.33	29.53	6.94	4655.90	3732.15
188+00.00	15.79	2.58	28.45	5.45	4684.35	3737.61
188+50.00	19.85	0.32	32.93	2.35	4717.28	3739.95
189+00.00	0.93	7.91	15.48	6.06	4732.76	3746.01
189+50.00	0.01	17.90	0.64	23.27	4733.40	3769.29
190+00.00	0.00	20.94	0.01	35.92	4733.41	3805.21

Total Volume Table						
Station	Fill Area	Cut Area	Fill Volume	Cut Volume	Cumulative Fill Vol	Cumulative Cut Vol
190+50.00	3.64	4.92	2.25	22.23	4735.65	3827.44
191+00.00	5.04	2.82	8.00	7.08	4743.65	3834.52
191+50.00	12.90	1.93	16.05	4.38	4759.71	3838.90
192+00.00	14.34	0.09	25.22	1.50	4784.92	3840.40
192+50.00	31.82	0.43	41.69	0.44	4826.61	3840.84
193+00.00	23.51	2.08	51.04	2.14	4877.65	3842.98
193+50.00	9.53	4.51	29.63	5.96	4907.28	3848.95
194+00.00	2.05	15.14	9.87	17.23	4917.15	3866.18
194+50.00	6.15	1.36	7.25	12.99	4924.40	3879.17
195+00.00	0.00	3.26	3.80	4.15	4928.20	3883.32
195+50.00	0.15	5.84	0.09	8.31	4928.30	3891.63
196+00.00	0.77	8.53	0.78	13.23	4929.08	3904.87
196+50.00	5.31	2.08	5.01	9.16	4934.08	3914.02
197+00.00	0.02	11.77	3.52	11.61	4937.60	3925.63
197+50.00	16.04	51.55	10.30	54.29	4947.90	3979.92
198+00.00	0.00	72.38	9.90	114.21	4957.80	4094.13
198+50.00	29.69	0.22	18.33	47.29	4976.13	4141.42
199+00.00	51.69	0.00	74.42	0.14	5050.55	4141.56
199+50.00	50.80	0.00	94.90	0.00	5145.44	4141.56
200+00.00	12.90	19.18	55.12	11.84	5200.57	4153.40

Total Volume Table						
Station	Fill Area	Cut Area	Fill Volume	Cut Volume	Cumulative Fill Vol	Cumulative Cut Vol
200+50.00	46.55	2.31	51.83	17.38	5252.40	4170.78
201+00.00	100.65	0.30	133.12	2.13	5385.52	4172.91
201+50.00	117.52	0.00	201.81	0.19	5587.33	4173.10
202+00.00	73.01	0.30	174.79	0.18	5762.12	4173.28
202+50.00	53.62	0.00	116.79	0.19	5878.91	4173.47
203+00.00	15.82	0.05	60.85	0.04	5939.75	4173.50
203+50.00	1.49	0.54	13.68	0.47	5953.44	4173.97
204+00.00	1.81	0.20	3.05	0.66	5956.49	4174.63
204+50.00	3.35	0.69	4.71	0.78	5961.19	4175.42
205+00.00	3.94	1.29	6.75	1.80	5967.94	4177.22
205+50.00	0.76	2.58	3.97	3.51	5971.91	4180.74
206+00.00	0.00	5.71	0.47	7.49	5972.38	4188.23
206+50.00	0.34	4.00	0.21	8.94	5972.59	4197.16
207+00.00	6.26	0.00	4.99	2.55	5977.58	4199.72
207+50.00	0.51	0.05	5.28	0.04	5982.86	4199.76
208+00.00	0.84	1.92	1.24	1.41	5984.10	4201.17
208+50.00	1.40	0.02	2.05	1.32	5986.15	4202.49
209+00.00	1.71	5.20	2.88	3.42	5989.03	4205.92
209+50.00	2.46	8.96	3.84	12.96	5992.87	4218.88
210+00.00	3.28	4.70	5.29	12.44	5998.16	4231.31

CUT & FILL

Total Volume Table						
Station	Fill Area	Cut Area	Fill Volume	Cut Volume	Cumulative Fill Vol	Cumulative Cut Vol
210+50.00	0.57	6.80	3.22	10.58	6001.38	4241.90
211+00.00	4.84	0.61	4.37	5.83	6005.75	4247.73
211+50.00	3.31	0.00	7.50	0.38	6013.26	4248.11
212+00.00	0.72	0.42	3.45	0.26	6016.70	4248.37
212+50.00	0.21	0.64	0.82	0.97	6017.53	4249.34
213+00.00	2.56	0.10	2.17	0.61	6019.69	4249.95
213+50.00	7.42	0.00	8.84	0.06	6028.53	4250.02
214+00.00	5.67	1.29	12.08	0.79	6040.61	4250.81
214+50.00	7.30	0.12	11.97	1.11	6052.59	4251.92
215+00.00	6.50	0.00	12.77	0.07	6065.35	4252.00
215+50.00	2.98	0.85	8.57	0.52	6073.92	4252.52
216+00.00	2.15	0.36	4.73	1.09	6078.65	4253.61
216+50.00	0.22	7.96	1.88	6.19	6080.54	4259.80
217+00.00	1.03	1.34	1.06	7.76	6081.60	4267.56
217+50.00	1.74	1.76	2.53	2.86	6084.13	4270.42
218+00.00	3.24	0.60	4.54	2.09	6088.68	4272.51
218+50.00	2.25	2.02	5.05	2.29	6093.73	4274.80
219+00.00	4.47	1.51	6.10	3.26	6099.83	4278.06
219+50.00	6.91	0.86	10.45	2.17	6110.28	4280.23
220+00.00	9.65	0.25	15.26	0.97	6125.55	4281.20

Total Volume Table						
Station	Fill Area	Cut Area	Fill Volume	Cut Volume	Cumulative Fill Vol	Cumulative Cut Vol
220+50.00	14.30	0.01	22.04	0.19	6147.58	4281.39
221+00.00	13.19	0.00	25.45	0.01	6173.03	4281.40
221+50.00	11.24	0.03	22.60	0.02	6195.63	4281.42
222+00.00	11.03	0.10	20.63	0.12	6216.25	4281.54
222+50.00	7.17	0.30	16.72	0.35	6232.98	4281.89
223+00.00	2.52	0.75	8.60	0.94	6241.58	4282.83
223+50.00	5.53	1.77	7.27	2.27	6248.85	4285.10
224+00.00	9.82	0.30	14.03	1.73	6262.87	4286.83
224+50.00	3.08	3.11	11.36	2.70	6274.23	4289.53
225+00.00	16.00	1.85	16.11	4.55	6290.34	4294.07
226+00.00	4.44	4.98	35.64	12.19	6325.97	4306.26
226+50.00	7.00	1.66	10.50	5.87	6336.47	4312.13
227+00.00	7.54	1.12	13.46	2.55	6349.93	4314.68
227+50.00	1.83	0.65	8.07	1.62	6358.01	4316.31
228+00.00	0.47	8.44	1.99	7.06	6359.99	4323.37
228+50.00	0.23	12.08	0.63	18.90	6360.62	4342.27
229+00.00	29.96	2.80	20.25	12.78	6380.88	4355.05
229+50.00	13.14	2.37	38.85	4.78	6419.73	4359.83
230+00.00	14.04	6.20	25.17	7.65	6444.90	4367.48
230+50.00	31.30	14.72	40.93	18.81	6485.83	4386.29

Total Volume Table						
Station	Fill Area	Cut Area	Fill Volume	Cut Volume	Cumulative Fill Vol	Cumulative Cut Vol
231+00.00	14.59	31.74	41.51	42.02	6527.34	4428.31
231+50.00	2.66	48.00	14.50	73.31	6541.84	4501.62
232+00.00	10.76	33.41	11.59	74.97	6553.42	4576.58
232+50.00	31.68	20.64	37.59	49.57	6591.02	4626.15
233+00.00	36.72	25.65	63.27	42.78	6654.29	4668.93
233+50.00	33.47	17.58	64.96	39.79	6719.25	4708.72
234+00.00	30.68	16.82	59.38	31.84	6778.63	4740.56
234+50.00	37.70	22.21	63.20	36.02	6841.84	4776.58
235+00.00	49.26	22.39	80.28	41.30	6922.12	4817.88
235+50.00	63.51	15.28	104.14	34.67	7026.26	4852.55
236+00.00	37.91	43.02	92.89	51.81	7119.15	4904.36
236+50.00	4.64	70.42	34.46	104.00	7153.61	5008.36
237+00.00	4.01	48.17	8.01	109.16	7161.62	5117.52
237+50.00	19.77	42.01	20.18	83.44	7181.80	5200.96
238+00.00	32.35	22.02	47.78	58.30	7229.58	5259.26
238+50.00	17.75	30.60	45.72	48.50	7275.31	5307.76
239+00.00	23.51	24.10	38.08	50.53	7313.39	5358.29
239+50.00	0.00	60.82	14.51	76.06	7327.90	5434.35
240+00.00	0.34	70.41	0.21	121.40	7328.11	5555.75
240+50.00	11.11	10.58	8.27	66.84	7336.38	5622.59

CUT & FILL

Total Volume Table						
Station	Fill Area	Cut Area	Fill Volume	Cut Volume	Cumulative Fill Vol	Cumulative Cut Vol
241+00.00	38.01	0.00	43.01	6.53	7379.39	5629.13
241+50.00	25.38	0.62	58.30	0.38	7437.69	5629.51
242+00.00	35.60	0.28	56.20	0.81	7493.89	5630.32
242+50.00	17.35	0.05	48.03	0.27	7541.92	5630.59
243+00.00	0.29	3.21	12.28	2.25	7554.20	5632.84
243+50.00	1.14	5.66	1.24	8.11	7555.43	5640.95
244+00.00	0.02	8.72	0.82	13.22	7556.25	5654.17
244+50.00	3.52	3.96	2.36	11.45	7558.61	5665.62
245+00.00	2.54	9.26	5.59	11.90	7564.20	5677.52
245+50.00	9.50	8.99	10.46	16.91	7574.67	5694.43
246+00.00	3.73	19.06	11.84	25.40	7586.51	5719.83
246+50.00	0.34	41.55	3.22	54.78	7589.72	5774.61
247+00.00	5.05	27.74	4.14	63.72	7593.87	5838.34
247+50.00	2.56	22.58	6.92	46.51	7600.79	5884.85
248+00.00	10.97	4.19	11.63	22.53	7612.42	5907.38
248+50.00	0.12	7.60	7.54	10.76	7619.96	5918.14
249+00.00	1.31	0.50	1.12	6.20	7621.08	5924.34
249+50.00	0.89	0.59	2.02	1.01	7623.10	5925.35
250+00.00	0.00	9.				

CUT & FILL

Total Volume Table with columns: Station, Fill Area, Cut Area, Fill Volume, Cut Volume, Cumulative Fill Vol, Cumulative Cut Vol. Rows 271+00.00 to 280+50.00.

Total Volume Table with columns: Station, Fill Area, Cut Area, Fill Volume, Cut Volume, Cumulative Fill Vol, Cumulative Cut Vol. Rows 281+00.00 to 290+50.00.

Total Volume Table with columns: Station, Fill Area, Cut Area, Fill Volume, Cut Volume, Cumulative Fill Vol, Cumulative Cut Vol. Rows 291+00.00 to 300+50.00.

CUT & FILL

Total Volume Table with columns: Station, Fill Area, Cut Area, Fill Volume, Cut Volume, Cumulative Fill Vol, Cumulative Cut Vol. Rows 301+00.00 to 310+50.00.

Total Volume Table with columns: Station, Fill Area, Cut Area, Fill Volume, Cut Volume, Cumulative Fill Vol, Cumulative Cut Vol. Rows 311+00.00 to 320+50.00.

Total Volume Table with columns: Station, Fill Area, Cut Area, Fill Volume, Cut Volume, Cumulative Fill Vol, Cumulative Cut Vol. Rows 321+00.00 to 330+50.00.

CUT & FILL

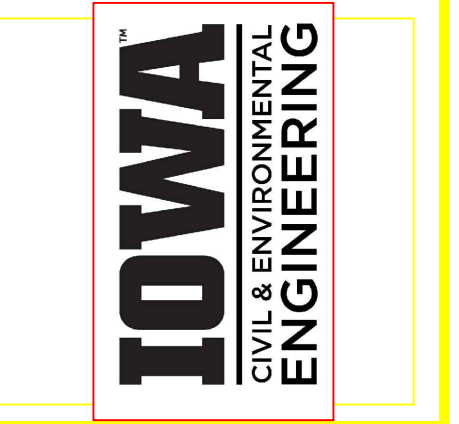
Total Volume Table with columns: Station, Fill Area, Cut Area, Fill Volume, Cut Volume, Cumulative Fill Vol, Cumulative Cut Vol. Rows 331+00.00 to 340+50.00.

Total Volume Table with columns: Station, Fill Area, Cut Area, Fill Volume, Cut Volume, Cumulative Fill Vol, Cumulative Cut Vol. Rows 341+00.00 to 350+50.00.

Total Volume Table with columns: Station, Fill Area, Cut Area, Fill Volume, Cut Volume, Cumulative Fill Vol, Cumulative Cut Vol. Rows 351+00.00 to 360+50.00.

PROJECT: CEE: 4850 DATE: 4/17/2020 DRAWN BY: cds REVISION:

THE UNIVERSITY OF IOWA CIVIL AND ENVIRONMENTAL ENGINEERING 4105 SEAMANS CENTER FOR THE ENGINEERING ARTS AND SCIENCES 103 S CAPITOL ST IOWA CITY, IOWA 52242 PHONE: 319.335.5647 FAX: 319.335.5660 EMAIL: civil-hawks@iowa.edu



EDUCATIONAL - NOT FOR CONSTRUCTION

Volga Trail

SHEET NAME CUT & FILL

SHEET NO. VT-04

CUT & FILL

Total Volume Table						
Station	Fill Area	Cut Area	Fill Volume	Cut Volume	Cumulative Fill Vol	Cumulative Cut Vol
361+00.00	61.73	0.24	135.35	0.15	15900.92	13786.95
361+50.00	28.34	1.13	81.42	1.17	15982.33	13788.12
362+00.00	4.71	22.62	27.53	17.78	16009.86	13805.89
362+50.00	1.62	22.68	5.61	41.94	16015.47	13847.83
363+00.00	2.32	17.29	3.63	36.89	16019.09	13884.73
363+50.00	29.02	0.00	24.40	10.67	16043.50	13895.40
364+00.00	19.04	1.08	44.17	0.67	16087.67	13896.07
364+50.00	48.23	0.32	60.23	1.23	16147.90	13897.30
365+00.00	92.71	0.00	128.28	0.20	16276.18	13897.50
365+50.00	95.45	0.00	174.22	0.00	16450.40	13897.50
366+00.00	29.71	7.10	110.13	4.38	16560.53	13901.88
366+50.00	10.93	3.30	36.21	9.41	16596.74	13911.28
367+00.00	5.59	3.43	15.02	6.23	16611.76	13917.52
367+50.00	11.43	0.34	15.44	2.99	16627.20	13920.51
368+00.00	1.29	38.64	10.23	26.29	16637.43	13946.80
368+50.00	1.50	27.31	2.59	60.76	16640.02	14007.56
369+00.00	2.52	28.75	3.68	51.90	16643.70	14059.46
369+50.00	3.36	36.38	5.43	60.17	16649.13	14119.63
370+00.00	3.21	33.61	6.09	64.79	16655.21	14184.42
370+50.00	0.43	32.28	2.98	61.00	16658.19	14245.41

Total Volume Table						
Station	Fill Area	Cut Area	Fill Volume	Cut Volume	Cumulative Fill Vol	Cumulative Cut Vol
371+00.00	1.11	19.77	1.38	47.72	16659.57	14293.14
371+50.00	0.29	12.63	1.21	29.75	16660.79	14322.88
372+00.00	0.06	14.08	0.30	24.72	16661.08	14347.60
372+50.00	0.07	14.72	0.12	26.67	16661.21	14374.28
373+00.00	1.06	15.79	0.86	28.25	16662.07	14402.52
373+50.00	0.12	17.08	0.94	30.42	16663.01	14432.95
374+00.00	0.28	18.52	0.36	32.95	16663.36	14465.90
374+50.00	0.09	19.96	0.33	35.62	16663.69	14501.51
375+00.00	0.14	21.43	0.21	38.32	16663.91	14539.83
375+50.00	0.65	22.23	0.68	40.42	16664.58	14580.25
376+00.00	1.22	23.52	1.71	42.35	16666.29	14622.61
376+50.00	2.18	23.07	3.10	43.14	16669.40	14665.74
377+00.00	6.35	14.12	7.56	34.09	16676.96	14699.83
377+50.00	2.34	25.63	7.74	36.27	16684.69	14736.11
378+00.00	2.97	11.44	4.90	33.45	16689.60	14769.55
378+50.00	5.33	0.00	7.58	7.06	16697.17	14776.62
379+00.00	3.21	0.00	7.83	0.00	16705.00	14776.62
379+50.00	2.72	0.06	5.49	0.04	16710.49	14776.65
380+00.00	1.84	0.04	4.20	0.09	16714.69	14776.74
380+50.00	5.01	0.23	6.11	0.22	16720.80	14776.96

Total Volume Table						
Station	Fill Area	Cut Area	Fill Volume	Cut Volume	Cumulative Fill Vol	Cumulative Cut Vol
381+00.00	4.52	1.13	8.82	1.15	16729.62	14778.12
381+50.00	3.40	1.78	7.31	2.68	16736.93	14780.79
382+00.00	6.94	2.86	9.38	4.26	16746.31	14785.05
382+50.00	0.99	3.96	6.51	6.28	16752.82	14791.33
383+00.00	0.69	5.10	1.55	8.37	16754.37	14799.70
383+50.00	1.26	6.28	1.79	10.52	16756.16	14810.22
384+00.00	0.71	7.51	1.80	12.75	16757.96	14822.98
384+50.00	0.67	8.82	1.28	15.10	16759.23	14838.08
385+00.00	0.64	10.16	1.21	17.55	16760.44	14855.63
385+50.00	0.35	11.79	0.90	20.31	16761.35	14875.94
386+00.00	0.50	13.31	0.79	23.23	16762.13	14899.17
386+50.00	0.06	16.06	0.46	27.16	16762.59	14926.33
387+00.00	0.09	18.31	0.14	31.80	16762.74	14958.13
387+50.00	0.00	20.46	0.06	35.87	16762.80	14994.00
388+00.00	0.00	22.85	0.00	40.08	16762.80	15034.08
388+50.00	0.24	25.27	0.16	44.54	16762.96	15078.62
389+00.00	0.12	27.57	0.33	48.90	16763.29	15127.52
389+50.00	0.14	29.53	0.24	52.86	16763.53	15180.38
390+00.00	0.10	31.71	0.22	56.70	16763.75	15237.08
390+50.00	0.69	39.31	0.65	65.63	16764.41	15302.71

CUT & FILL

Total Volume Table						
Station	Fill Area	Cut Area	Fill Volume	Cut Volume	Cumulative Fill Vol	Cumulative Cut Vol
391+00.00	0.00	65.12	0.42	95.69	16764.83	15398.40
391+50.00	0.10	62.20	0.06	117.88	16764.89	15516.29
392+00.00	0.00	78.45	0.06	129.95	16764.95	15646.23
392+50.00	0.00	85.35	0.00	151.62	16764.95	15797.85
393+00.00	0.32	72.84	0.20	146.32	16765.15	15944.17
393+50.00	0.62	35.66	0.85	98.44	16766.01	16042.61
394+00.00	1.04	31.64	1.52	62.28	16767.53	16104.88
394+50.00	3.86	19.30	4.27	46.70	16771.79	16151.59
395+00.00	4.16	0.88	7.43	15.01	16779.22	16166.60
395+50.00	2.13	2.48	5.73	2.99	16784.95	16169.58
396+00.00	11.26	0.96	11.29	3.07	16796.24	16172.65
396+50.00	0.59	6.44	8.90	6.10	16805.14	16178.75
397+00.00	3.28	0.15	3.25	4.66	16808.39	16183.41
397+50.00	2.35	5.05	5.19	3.74	16813.58	16187.15
398+00.00	1.45	13.28	3.49	16.37	16817.07	16203.52
398+50.00	7.30	5.34	7.41	16.69	16824.48	16220.21
399+00.00	1.86	11.61	7.92	15.32	16832.41	16235.53
399+50.00	0.23	14.96	1.70	24.54	16834.10	16260.07
400+00.00	0.85	14.77	0.95	27.53	16835.05	16287.60
400+50.00	4.85	14.74	4.78	27.32	16839.83	16314.92

Total Volume Table						
Station	Fill Area	Cut Area	Fill Volume	Cut Volume	Cumulative Fill Vol	Cumulative Cut Vol
401+00.00	7.47	15.40	11.33	27.91	16851.15	16342.83
401+50.00	0.04	62.36	4.95	67.14	16856.11	16409.96
402+00.00	0.21	51.55	0.20	105.32	16856.31	16515.28
402+50.00	3.08	24.28	2.53	68.65	16858.83	16583.93
403+00.00	1.18	23.00	3.81	43.77	16862.65	16627.69
403+50.00	0.40	24.41	1.41	43.89	16864.06	16671.58
404+00.00	3.05	20.76	2.82	41.77	16866.87	16713.35
404+50.00	3.65	6.20	6.19	23.65	16873.07	16737.00
405+00.00	4.10	0.00	7.17	3.83	16880.24	16740.83
405+50.00	8.28	0.00	11.24	0.00	16891.48	16740.83
406+00.00	10.37	0.00	17.23	0.00	16908.71	16740.83
406+50.00	32.55	1.48	37.83	0.96	16946.54	16741.80
407+00.00	23.06	21.51	51.24	17.67	16997.78	16759.46
407+50.00	25.09	59.67	44.57	72.22	17042.35	16831.68
408+00.00	55.51	45.27	72.79	96.86	17115.15	16928.54
408+50.00	60.14	34.57	107.06	73.71	17222.20	17002.25
409+00.00	54.27	24.87	105.89	54.79	17328.09	17057.05
409+50.00	36.60	16.86	83.60	38.40	17411.69	17095.44
410+00.00	22.81	6.79	54.51	21.20	17466.20	17116.65
410+50.00	10.75	14.55	30.38	19.31	17496.58	17135.96

Total Volume Table						
Station	Fill Area	Cut Area	Fill Volume	Cut Volume	Cumulative Fill Vol	Cumulative Cut Vol
411+00.00	107.87	0.00	94.24	8.98	17590.82	17144.94
411+50.00	42.87	11.81	135.02	7.29	17725.84	17152.23
412+00.00	44.18	12.91	80.59	22.89	17806.43	17175.12
412+50.00	48.15	25.31	85.46	34.75	17891.88	17209.87
413+00.00	24.48	53.33	66.02	71.22	17957.91	17281.09
413+50.00	5.64	80.36	25.85	122.93	17983.75	17404.03
414+00.00	2.46	74.17	7.30	143.05	17991.05	17547.07
414+50.00	1.37	50.76	3.50	114.99	17994.55	17662.06
415+00.00	5.46	27.23	5.91	71.09	18000.46	17733.15
415+50.00	0.70	30.04	5.01	53.01	18005.47	17786.16
416+00.00	6.34	13.39	5.65	39.20	18011.12	17825.36
416+50.00	22.82	2.86	25.42	13.85	18036.54	17839.21
417+00.00	16.39	20.71	36.14	19.30	18072.68	17858.50
417+50.00	1.36	61.13	13.88	72.48	18086.56	17930.98
418+00.00	0.24	108.33	1.35	154.84	18087.91	18085.82
418+50.00	0.00	144.87	0.15	233.63	18088.06	18319.45
419+00.00	0.00	153.24	0.00	275.99	18088.06	18595.44
419+50.00	0.16	110.62	0.10	243.24	18088.16	18838.69
420+00.00	58.46	0.00	38.09	68.28	18126.25	18906.97
420+50.00	5.61	11.29	50.73	6.97	18176.97	18913.94

CUT & FILL

Total Volume Table						
Station	Fill Area	Cut Area	Fill Volume	Cut Volume	Cumulative Fill Vol	Cumulative Cut Vol
421+00.00	61.40	0.35	52.82	8.42	18229.79	18922.36
421+50.00	55.68	6.16	108.37	4.93	18338.16	18927.29
422+00.00	75.88	5.73	121.33	11.01	18459.49	18938.30
422+50.00	107.72	1.57	169.14	6.36	18628.63	18944.66
423+00.00	90.62	2.91	183.41	4.08	18812.04	18948.74
423+50.00	39.07	2.72	116.78	5.21	18928.82	18953.95
424+00.00	11.92	7.34	44.79	8.97	18973.62	18962.93
424+50.00	9.90	1.48	20.18	7.47	18993.79	18970.40
425+00.00	16.61	0.00	24.28	0.91	19018.07	18971.31
425+50.00	0.35	4.25	11.96	2.62	19030.04	18973.94
426+00.00	0.00	12.87	0.22	15.14	19030.26	18989.07
426+50.00	3.91	18.89	2.41	29.23	19032.67	19018.30
427+00.00	0.00	38.54	2.41	52.11	19035.08	19070.41
427+50.00	0.00	30.31	0.00	63.60	19035.08	19134.01
428+00.00	1.30					

PRODUCED BY AN AUTODESK STUDENT VERSION

SUBGRADE

Material Table			
Station	Area	Volume	Cumulative Volume
0+00.00	5.00	0.00	0.00
0+50.00	5.00	9.26	9.26
1+00.00	5.00	9.26	18.52
1+50.00	5.00	9.26	27.78
2+00.00	5.00	9.26	37.04
2+50.00	5.00	9.26	46.30
3+00.00	5.00	9.26	55.56
3+50.00	5.00	9.26	64.81
4+00.00	5.00	9.26	74.07
4+50.00	5.00	9.26	83.33
5+00.00	5.00	9.26	92.59
5+50.00	5.00	9.26	101.85
6+00.00	5.00	9.26	111.11
6+50.00	5.00	9.26	120.37
7+00.00	5.00	9.26	129.63
7+50.00	5.00	9.26	138.89
8+00.00	5.00	9.26	148.15
8+50.00	5.00	9.26	157.41
9+00.00	5.00	9.26	166.67
9+50.00	5.00	9.26	175.93

Material Table			
Station	Area	Volume	Cumulative Volume
10+00.00	5.00	9.26	185.19
10+50.00	5.00	9.26	194.44
11+00.00	5.00	9.26	203.70
11+50.00	5.00	9.26	212.96
12+00.00	5.00	9.26	222.22
12+50.00	5.00	9.26	231.48
13+00.00	5.00	9.26	240.74
13+50.00	5.00	9.26	250.00
14+00.00	0.00	3.09	253.09
14+50.00	5.00	3.09	256.17
15+00.00	5.00	9.26	265.43
15+50.00	5.00	9.26	274.69
16+00.00	5.00	9.26	283.95
16+50.00	5.00	9.26	293.21
17+00.00	5.00	9.26	302.47
17+50.00	5.00	9.26	311.73
18+00.00	5.00	9.26	320.99
18+50.00	5.00	9.26	330.25
19+00.00	5.00	9.26	339.51
19+50.00	5.00	9.26	348.77

Material Table			
Station	Area	Volume	Cumulative Volume
20+00.00	5.00	9.26	358.02
20+50.00	5.00	9.26	367.28
21+00.00	5.00	9.26	376.54
21+50.00	5.00	9.26	385.80
22+00.00	5.00	9.26	395.06
22+50.00	5.00	9.26	404.32
23+00.00	5.00	9.26	413.58
23+50.00	5.00	9.26	422.84
24+00.00	5.00	9.26	432.10
24+50.00	5.00	9.26	441.36
25+00.00	5.00	9.26	450.62
25+50.00	5.00	9.26	459.88
26+00.00	5.00	9.26	469.14
26+50.00	5.00	9.26	478.40
27+00.00	5.00	9.26	487.65
27+50.00	5.00	9.26	496.91
28+00.00	5.00	9.26	506.17
28+50.00	5.00	9.26	515.43
29+00.00	5.00	9.26	524.69
29+50.00	5.00	9.26	533.95

Material Table			
Station	Area	Volume	Cumulative Volume
30+00.00	5.00	9.26	543.21
30+50.00	5.00	9.26	552.47
31+00.00	5.00	9.26	561.73
31+50.00	5.00	9.26	570.99
32+00.00	5.00	9.26	580.25
32+50.00	5.00	9.26	589.51
33+00.00	5.00	9.26	598.77
33+50.00	5.00	9.26	608.02
34+00.00	5.00	9.26	617.28
34+50.00	5.00	9.26	626.54
35+00.00	5.00	9.26	635.80
35+50.00	5.00	9.26	645.06
36+00.00	5.00	9.26	654.32
36+50.00	5.00	9.26	663.58
37+00.00	5.00	9.26	672.84
37+50.00	5.00	9.26	682.10
38+00.00	5.00	9.26	691.36
38+50.00	5.00	9.26	700.62
39+00.00	5.00	9.26	709.88
39+50.00	5.00	9.26	719.14

Material Table			
Station	Area	Volume	Cumulative Volume
40+00.00	5.00	9.26	728.40
40+50.00	5.00	9.26	737.65
41+00.00	5.00	9.26	746.91
41+50.00	5.00	9.26	756.17
42+00.00	5.00	9.26	765.43
42+50.00	5.00	9.26	774.69
43+00.00	5.00	9.26	783.95
43+50.00	5.00	9.26	793.21
44+00.00	5.00	9.26	802.47
44+50.00	5.00	9.26	811.73
45+00.00	5.00	9.26	820.99
45+50.00	5.00	9.26	830.25
46+00.00	5.00	9.26	839.51
46+50.00	5.00	9.26	848.77
47+00.00	5.00	9.26	858.02
47+50.00	5.00	9.26	867.28
48+00.00	5.00	9.26	876.54
48+50.00	5.00	9.26	885.80
49+00.00	5.00	9.26	895.06
49+50.00	5.00	9.26	904.32

SUBGRADE

Material Table			
Station	Area	Volume	Cumulative Volume
50+00.00	5.00	9.26	913.58
50+50.00	5.00	9.26	922.84
51+00.00	5.00	9.26	932.10
51+50.00	5.00	9.26	941.36
52+00.00	5.00	9.26	950.62
52+50.00	5.00	9.26	959.88
53+00.00	5.00	9.26	969.14
53+50.00	5.00	9.26	978.40
54+00.00	5.00	9.26	987.65
54+50.00	5.00	9.26	996.91
55+00.00	5.00	9.26	1006.17
55+50.00	5.00	9.26	1015.43
56+00.00	5.00	9.26	1024.69
56+50.00	5.00	9.26	1033.95
57+00.00	5.00	9.26	1043.21
57+50.00	5.00	9.26	1052.47
58+00.00	5.00	9.26	1061.73
58+50.00	5.00	9.26	1070.99
59+00.00	5.00	9.26	1080.25
59+50.00	5.00	9.26	1089.51

Material Table			
Station	Area	Volume	Cumulative Volume
60+00.00	5.00	9.26	1098.77
60+50.00	5.00	9.26	1108.02
61+00.00	5.00	9.26	1117.28
61+50.00	5.00	9.26	1126.54
62+00.00	5.00	9.26	1135.80
62+50.00	5.00	9.26	1145.06
63+00.00	5.00	9.26	1154.32
63+50.00	5.00	9.26	1163.58
64+00.00	5.00	9.26	1172.84
64+50.00	5.00	9.26	1182.10
65+00.00	5.00	9.26	1191.36
65+50.00	5.00	9.26	1200.62
66+00.00	5.00	9.26	1209.88
66+50.00	5.00	9.26	1219.14
67+00.00	5.00	9.26	1228.40
67+50.00	5.00	9.26	1237.65
68+00.00	5.00	9.26	1246.91
68+50.00	5.00	9.26	1256.17
69+00.00	5.00	9.26	1265.43
69+50.00	5.00	9.26	1274.69

Material Table			
Station	Area	Volume	Cumulative Volume
70+00.00	5.00	9.26	1283.95
70+50.00	5.00	9.26	1293.21
71+00.00	5.00	9.26	1302.47
71+50.00	5.00	9.26	1311.73
72+00.00	5.00	9.26	1320.99
72+50.00	5.00	9.26	1330.25
73+00.00	5.00	9.26	1339.51
73+50.00	5.00	9.26	1348.77
74+00.00	5.00	9.26	1358.02
74+50.00	5.00	9.26	1367.28
75+00.00	5.00	9.26	1376.54
75+50.00	5.00	9.26	1385.80
76+00.00	5.00	9.26	1395.06
76+50.00	5.00	9.26	1404.32
77+00.00	5.00	9.26	1413.58
77+50.00	5.00	9.26	1422.84
78+00.00	5.00	9.26	1432.10
78+50.00	5.00	9.26	1441.36
79+00.00	5.00	9.26	1450.62
79+50.00	5.00	9.26	1459.88

Material Table			
Station	Area	Volume	Cumulative Volume
80+00.00	5.00	9.26	1469.14
80+50.00	5.00	9.26	1478.40
81+00.00	5.00	9.26	1487.65
81+50.00	5.00	9.26	1496.91
82+00.00	5.00	9.26	1506.17
82+50.00	5.00	9.26	1515.43
83+00.00	5.00	9.26	1524.69
83+50.00	5.00	9.26	1533.95
84+00.00	5.00	9.26	1543.21
84+50.00	5.00	9.26	1552.47
85+00.00	5.00	9.26	1561.73
85+50.00	5.00	9.26	1570.99
86+00.00	5.00	9.26	1580.25
86+50.00	5.00	9.26	1589.51
87+00.00	5.00	9.26	1598.77
87+50.00	5.00	9.26	1608.02
88+00.00	5.00	9.26	1617.28
88+50.00	5.00	9.26	1626.54
89+00.00	5.00	9.26	1635.80
89+50.00	5.00	9.26	1645.06

Material Table			
Station	Area	Volume	Cumulative Volume
90+00.00	5.00	9.26	1654.32
90+50.00	5.00	9.26	1663.58
91+00.00	5.00	9.26	1672.84
91+50.00	5.00	9.26	1682.10
92+00.00	5.00	9.26	1691.36
92+50.00	5.00	9.26	1700.62
93+00.00	5.00	9.26	1709.88
93+50.00	5.00	9.26	1719.14
94+00.00	5.00	9.26	1728.40
94+50.00	5.00	9.26	1737.65
95+00.00	5.00	9.26	1746.91
95+50.00	5.00	9.26	1756.17
96+00.00	5.00	9.26	1765.43
96+50.00	5.00	9.26	1774.69
97+00.00	5.00	9.26	1783.95
97+50.00	5.00	9.26	1793.21
98+00.00	5.00	9.26	1802.47
98+50.00	5.00	9.26	1811.73
99+00.00	5.00	9.26	1820.99
99+50.00	5.00	9.26	1830.25

SUBGRADE

Material Table			
Station	Area	Volume	Cumulative Volume
100+00.00	5.00	9.26	1839.51
100+50.00	5.00	9.26	1848.77
101+00.00	5.00	9.26	1858.02
101+50.00	5.00	9.26	1867.28
102+00.00	5.00	9.26	1876.54
102+50.00	5.00	9.26	1885.80
103+00.00	5.00	9.26	1895.06
103+50.00	5.00	9.26	1904.32
104+00.00	5.00	9.26	1913.58
104+50.00	5.00	9.26	1922.84
105+00.00	5.00	9.26	1932.10
105+50.00	5.00	9.26	1941.36
106+00.00	5.00	9.26	1950.62
106+50.00	5.00	9.26	1959.88
107+00.00	5.00	9.26	1969.14
107+50.00	5.00	9.26	1978.40
108+00.00	5.00	9.26	1987.65
108+50.00	5.00	9.26	1996.91
109+00.00	5.00	9.26	2006.17
109+50.00	5.00	9.26	2015.43

Material Table			
Station	Area	Volume	Cumulative Volume
110+00.00	5.00	9.26	2024.69
110+50.00	5.00	9.26	2033.95
111+00.00	5.00	9.26	2043.21
111+50.00	5.00	9.26	2052.47
112+00.00	5.00	9.26	2061.73
112+50.00	5.00	9.26	2070.99
113+00.00	5.00	9.26	2080.25
113+50.00	5.00	9.26	2089.51
114+00.00	5.00	9.26	2098.77
114+50.00	5.00	9.26	2108.02
115+00.00	5.00	9.26	2117.28
115+50.00	5.00	9.26	2126.54
116+00			

SUBGRADE

Material Table				
Station	Area	Volume	Cumulative	Volume
150+00.00	5.00	9.26	2765.43	
150+50.00	5.00	9.26	2774.69	
151+00.00	5.00	9.26	2783.95	
151+50.00	5.00	9.26	2793.21	
152+00.00	5.00	9.26	2802.47	
152+50.00	5.00	9.26	2811.73	
153+00.00	5.00	9.26	2820.99	
153+50.00	5.00	9.26	2830.25	
154+50.00	5.00	18.52	2848.77	
155+00.00	5.00	9.26	2858.02	
155+50.00	5.00	9.26	2867.28	
156+00.00	5.00	9.26	2876.54	
156+50.00	5.00	9.26	2885.80	
157+00.00	5.00	9.26	2895.06	
157+50.00	5.00	9.26	2904.32	
158+00.00	5.00	9.26	2913.58	
158+50.00	5.00	9.26	2922.84	
159+00.00	5.00	9.26	2932.10	
159+50.00	5.00	9.26	2941.36	
160+00.00	5.00	9.26	2950.62	

Material Table				
Station	Area	Volume	Cumulative	Volume
160+50.00	5.00	9.26	2959.88	
161+00.00	5.00	9.26	2969.14	
161+50.00	5.00	9.26	2978.40	
162+00.00	5.00	9.26	2987.65	
162+50.00	5.00	9.26	2996.91	
163+00.00	5.00	9.26	3006.17	
163+50.00	5.00	9.26	3015.43	
164+00.00	5.00	9.26	3024.69	
164+50.00	5.00	9.26	3033.95	
165+00.00	5.00	9.26	3043.21	
165+50.00	5.00	9.26	3052.47	
166+00.00	5.00	9.26	3061.73	
166+50.00	5.00	9.26	3070.99	
167+00.00	5.00	9.26	3080.25	
167+50.00	5.00	9.26	3089.51	
168+00.00	5.00	9.26	3098.77	
168+50.00	5.00	9.26	3108.02	
169+00.00	5.00	9.26	3117.28	
169+50.00	5.00	9.26	3126.54	
170+00.00	5.00	9.26	3135.80	

Material Table				
Station	Area	Volume	Cumulative	Volume
170+50.00	5.00	9.26	3145.06	
171+00.00	5.00	9.26	3154.32	
171+50.00	5.00	9.26	3163.58	
172+00.00	5.00	9.26	3172.84	
172+50.00	5.00	9.26	3182.10	
173+00.00	5.00	9.26	3191.36	
173+50.00	5.00	9.26	3200.62	
174+00.00	5.00	9.26	3209.88	
174+50.00	5.00	9.26	3219.14	
175+00.00	5.00	9.26	3228.40	
175+50.00	5.00	9.26	3237.65	
176+00.00	5.00	9.26	3246.91	
176+50.00	5.00	9.26	3256.17	
177+00.00	5.00	9.26	3265.43	
177+50.00	5.00	9.26	3274.69	
178+00.00	5.00	9.26	3283.95	
178+50.00	5.00	9.26	3293.21	
179+00.00	5.00	9.26	3302.47	
179+50.00	5.00	9.26	3311.73	
180+00.00	5.00	9.26	3320.99	

Material Table				
Station	Area	Volume	Cumulative	Volume
180+50.00	5.00	9.26	3330.25	
181+00.00	5.00	9.26	3339.51	
181+50.00	5.00	9.26	3348.77	
182+00.00	5.00	9.26	3358.02	
182+50.00	5.00	9.26	3367.28	
183+00.00	5.00	9.26	3376.54	
183+50.00	5.00	9.26	3385.80	
184+00.00	5.00	9.26	3395.06	
184+50.00	5.00	9.26	3404.32	
185+00.00	5.00	9.26	3413.58	
185+50.00	5.00	9.26	3422.84	
186+00.00	5.00	9.26	3432.10	
186+50.00	5.00	9.26	3441.36	
187+00.00	5.00	9.26	3450.62	
187+50.00	5.00	9.26	3459.88	
188+00.00	5.00	9.26	3469.14	
188+50.00	5.00	9.26	3478.40	
189+00.00	5.00	9.26	3487.65	
189+50.00	5.00	9.26	3496.91	
190+00.00	5.00	9.26	3506.17	

Material Table				
Station	Area	Volume	Cumulative	Volume
190+50.00	5.00	9.26	3515.43	
191+00.00	5.00	9.26	3524.69	
191+50.00	5.00	9.26	3533.95	
192+00.00	5.00	9.26	3543.21	
192+50.00	5.00	9.26	3552.47	
193+00.00	5.00	9.26	3561.73	
193+50.00	5.00	9.26	3570.99	
194+00.00	5.00	9.26	3580.25	
194+50.00	5.00	9.26	3589.51	
195+00.00	5.00	9.26	3598.77	
195+50.00	5.00	9.26	3608.02	
196+00.00	5.00	9.26	3617.28	
196+50.00	5.00	9.26	3626.54	
197+00.00	5.00	9.26	3635.80	
197+50.00	5.00	9.26	3645.06	
198+00.00	5.00	9.26	3654.32	
198+50.00	5.00	9.26	3663.58	
199+00.00	5.00	9.26	3672.84	
199+50.00	5.00	9.26	3682.10	
200+00.00	5.00	9.26	3691.36	

SUBGRADE

Material Table				
Station	Area	Volume	Cumulative	Volume
200+50.00	5.00	9.26	3700.62	
201+00.00	5.00	9.26	3709.88	
201+50.00	5.00	9.26	3719.14	
202+00.00	5.00	9.26	3728.40	
202+50.00	5.00	9.26	3737.65	
203+00.00	5.00	9.26	3746.91	
203+50.00	5.00	9.26	3756.17	
204+00.00	5.00	9.26	3765.43	
204+50.00	5.00	9.26	3774.69	
205+00.00	5.00	9.26	3783.95	
205+50.00	5.00	9.26	3793.21	
206+00.00	5.00	9.26	3802.47	
206+50.00	5.00	9.26	3811.73	
207+00.00	5.00	9.26	3820.99	
207+50.00	5.00	9.26	3830.25	
208+00.00	5.00	9.26	3839.51	
208+50.00	5.00	9.26	3848.77	
209+00.00	5.00	9.26	3858.02	
209+50.00	5.00	9.26	3867.28	
210+00.00	5.00	9.26	3876.54	

Material Table				
Station	Area	Volume	Cumulative	Volume
210+50.00	5.00	9.26	3885.80	
211+00.00	5.00	9.26	3895.06	
211+50.00	5.00	9.26	3904.32	
212+00.00	5.00	9.26	3913.58	
212+50.00	5.00	9.26	3922.84	
213+00.00	5.00	9.26	3932.10	
213+50.00	5.00	9.26	3941.36	
214+00.00	5.00	9.26	3950.62	
214+50.00	5.00	9.26	3959.88	
215+00.00	5.00	9.26	3969.14	
215+50.00	5.00	9.26	3978.40	
216+00.00	5.00	9.26	3987.65	
216+50.00	5.00	9.26	3996.91	
217+00.00	5.00	9.26	4006.17	
217+50.00	5.00	9.26	4015.43	
218+00.00	5.00	9.26	4024.69	
218+50.00	5.00	9.26	4033.95	
219+00.00	5.00	9.26	4043.21	
219+50.00	5.00	9.26	4052.47	
220+00.00	5.00	9.26	4061.73	

Material Table				
Station	Area	Volume	Cumulative	Volume
220+50.00	5.00	9.26	4070.99	
221+00.00	5.00	9.26	4080.25	
221+50.00	5.00	9.26	4089.51	
222+00.00	5.00	9.26	4098.77	
222+50.00	5.00	9.26	4108.02	
223+00.00	5.00	9.26	4117.28	
223+50.00	5.00	9.26	4126.54	
224+00.00	5.00	9.26	4135.80	
224+50.00	5.00	9.26	4145.06	
225+00.00	5.00	9.26	4154.32	
226+00.00	5.00	18.52	4172.84	
226+50.00	5.00	9.26	4182.10	
227+00.00	5.00	9.26	4191.36	
227+50.00	5.00	9.26	4200.62	
228+00.00	5.00	9.26	4209.88	
228+50.00	5.00	9.26	4219.14	
229+00.00	5.00	9.26	4228.40	
229+50.00	5.00	9.26	4237.65	
230+00.00	5.00	9.26	4246.91	
230+50.00	5.00	9.26	4256.17	

Material Table				
Station	Area	Volume	Cumulative	Volume
231+00.00	5.00	9.26	4265.43	
231+50.00	5.00	9.26	4274.69	
232+00.00	5.00	9.26	4283.95	
232+50.00	5.00	9.26	4293.21	
233+00.00	5.00	9.26	4302.47	
233+50.00	5.00	9.26	4311.73	
234+00.00	5.00	9.26	4320.99	
234+50.00	5.00	9.26	4330.25	
235+00.00	5.00	9.26	4339.51	
235+50.00	5.00	9.26	4348.77	
236+00.00	5.00	9.26	4358.02	
236+50.00	5.00	9.26	4367.28	
237+00.00	5.00	9.26	4376.54	
237+50.00	5.00	9.26	4385.80	
238+00.00	5.00	9.26	4395.06	
238+50.00	5.00	9.26	4404.32	
239+00.00	5.00	9.26	4413.58	
239+50.00	5.00	9.26	4422.84	
240+00.00	5.00	9.26	4432.10	
240+50.00	5.00	9.26	4441.36	

Material Table				
Station	Area	Volume	Cumulative	Volume
241+00.00	5.00	9.26	4450.62	
241+50.00	5.00	9.26	4459.88	
242+00.00	5.00	9.26	4469.14	
242+50.00	5.00	9.26	4478.40	
243+00.00	5.00	9.26	4487.65	
243+50.00	5.00	9.26	4496.91	
244+00.00	5.00	9.26	4506.17	
244+50.00	5.00	9.26	4515.43	
245+00.00	5.00	9.26	4524.69	
245+50.00	5.00	9.26	4533.95	
246+00.00	5.00	9.26	4543.21	
246+50.00	5.00	9.26	4552.47	
247+00.00	5.00	9.26	4561.73	
247+50.00	5.00	9.26	4570.99	
248+00.00	5.00	9.26	4580.25	
248+50.00	5.00	9.26	4589.51	
249+00.00	5.00	9.26	4598.77	
249+50.00	5.00	9.26	4608.02	
250+00.00	5.00	9.26	4617.28	
250+50.00	5.00	9.26	4626.54	

SUBGRADE

Material Table				
Station	Area	Volume	Cumulative	Volume
251+00.00	5.00	9.26	4635.80	
251+50.00	5.00	9.26	4645.06	
252+00.00	5.00	9.26	4654.32	
252+50.00	5.00	9.26	4663.58	
253+00.00	5.00	9.26	4672.84	
253+50.00	5.00	9.26	4682.10	
254+00.00	5.00	9.26	4691.36	
254+50.00	5.00	9.26	4700.62	
255+00.00	5.00	9.26	4709.88	

PRODUCED BY AN AUTODESK STUDENT VERSION

PRODUCED BY AN AUTODESK STUDENT VERSION

SUBGRADE

Material Table			
Station	Area	Volume	Cumulative Volume
301+00.00	5.00	9.26	5561.73
301+50.00	5.00	9.26	5570.99
302+00.00	5.00	9.26	5580.25
302+50.00	5.00	9.26	5589.51
303+00.00	5.00	9.26	5598.77
303+50.00	5.00	9.26	5608.02
304+00.00	5.00	9.26	5617.28
304+50.00	5.00	9.26	5626.54
305+00.00	5.00	9.26	5635.80
305+50.00	5.00	9.26	5645.06
306+00.00	5.00	9.26	5654.32
306+50.00	5.00	9.26	5663.58
307+00.00	5.00	9.26	5672.84
307+50.00	5.00	9.26	5682.10
308+00.00	5.00	9.26	5691.36
308+50.00	5.00	9.26	5700.62
309+00.00	5.00	9.26	5709.88
309+50.00	5.00	9.26	5719.14
310+00.00	5.00	9.26	5728.40
310+50.00	5.00	9.26	5737.65

Material Table			
Station	Area	Volume	Cumulative Volume
311+00.00	5.00	9.26	5746.91
311+50.00	5.00	9.26	5756.17
312+00.00	5.00	9.26	5765.43
312+50.00	5.00	9.26	5774.69
313+00.00	5.00	9.26	5783.95
313+50.00	5.00	9.26	5793.21
314+00.00	5.00	9.26	5802.47
314+50.00	5.00	9.26	5811.73
315+00.00	5.00	9.26	5820.99
315+50.00	5.00	9.26	5830.25
316+00.00	5.00	9.26	5839.51
316+50.00	5.00	9.26	5848.77
317+00.00	5.00	9.26	5858.02
317+50.00	5.00	9.26	5867.28
318+00.00	5.00	9.26	5876.54
318+50.00	5.00	9.26	5885.80
319+00.00	5.00	9.26	5895.06
319+50.00	5.00	9.26	5904.32
320+00.00	5.00	9.26	5913.58
320+50.00	5.00	9.26	5922.84

Material Table			
Station	Area	Volume	Cumulative Volume
321+00.00	5.00	9.26	5932.10
321+50.00	5.00	9.26	5941.36
322+00.00	5.00	9.26	5950.62
322+50.00	5.00	9.26	5959.88
323+00.00	5.00	9.26	5969.14
323+50.00	5.00	9.26	5978.40
324+00.00	5.00	9.26	5987.65
324+50.00	5.00	9.26	5996.91
325+00.00	5.00	9.26	6006.17
325+50.00	5.00	9.26	6015.43
326+00.00	5.00	9.26	6024.69
326+50.00	5.00	9.26	6033.95
327+00.00	5.00	9.26	6043.21
327+50.00	5.00	9.26	6052.47
328+00.00	5.00	9.26	6061.73
328+50.00	5.00	9.26	6070.99
329+00.00	5.00	9.26	6080.25
329+50.00	5.00	9.26	6089.51
330+00.00	5.00	9.26	6098.77
330+50.00	5.00	9.26	6108.02

Material Table			
Station	Area	Volume	Cumulative Volume
331+00.00	5.00	9.26	6117.28
331+50.00	5.00	9.26	6126.54
332+00.00	5.00	9.26	6135.80
332+50.00	5.00	9.26	6145.06
333+00.00	5.00	9.26	6154.32
333+50.00	5.00	9.26	6163.58
334+00.00	5.00	9.26	6172.84
334+50.00	5.00	9.26	6182.10
335+00.00	5.00	9.26	6191.36
335+50.00	5.00	9.26	6200.62
336+00.00	5.00	9.26	6209.88
336+50.00	5.00	9.26	6219.14
337+00.00	5.00	9.26	6228.40
337+50.00	5.00	9.26	6237.65
338+00.00	5.00	9.26	6246.91
338+50.00	5.00	9.26	6256.17
339+00.00	5.00	9.26	6265.43
339+50.00	5.00	9.26	6274.69
340+00.00	5.00	9.26	6283.95
340+50.00	5.00	9.26	6293.21

Material Table			
Station	Area	Volume	Cumulative Volume
341+00.00	5.00	9.26	6302.47
341+50.00	5.00	9.26	6311.73
342+00.00	5.00	9.26	6320.99
342+50.00	5.00	9.26	6330.25
343+00.00	5.00	9.26	6339.51
343+50.00	5.00	9.26	6348.77
344+00.00	5.00	9.26	6358.02
344+50.00	5.00	9.26	6367.28
345+00.00	5.00	9.26	6376.54
345+50.00	5.00	9.26	6385.80
346+00.00	5.00	9.26	6395.06
346+50.00	5.00	9.26	6404.32
347+00.00	5.00	9.26	6413.58
347+50.00	5.00	9.26	6422.84
348+00.00	5.00	9.26	6432.10
348+50.00	5.00	9.26	6441.36
349+00.00	5.00	9.26	6450.62
349+50.00	5.00	9.26	6459.88
350+00.00	5.00	9.26	6469.14
350+50.00	5.00	9.26	6478.40

SUBGRADE

Material Table			
Station	Area	Volume	Cumulative Volume
351+00.00	5.00	9.26	6487.65
351+50.00	5.00	9.26	6496.91
352+00.00	5.00	9.26	6506.17
352+50.00	5.00	9.26	6515.43
353+00.00	5.00	9.26	6524.69
353+50.00	5.00	9.26	6533.95
354+00.00	5.00	9.26	6543.21
354+50.00	5.00	9.26	6552.47
355+00.00	5.00	9.26	6561.73
355+50.00	5.00	9.26	6570.99
356+00.00	5.00	9.26	6580.25
356+50.00	5.00	9.26	6589.51
357+00.00	5.00	9.26	6598.77
357+50.00	5.00	9.26	6608.02
358+00.00	5.00	9.26	6617.28
358+50.00	5.00	9.26	6626.54
359+00.00	5.00	9.26	6635.80
359+50.00	5.00	9.26	6645.06
360+00.00	5.00	9.26	6654.32
360+50.00	5.00	9.26	6663.58

Material Table			
Station	Area	Volume	Cumulative Volume
361+00.00	5.00	9.26	6672.84
361+50.00	5.00	9.26	6682.10
362+00.00	5.00	9.26	6691.36
362+50.00	5.00	9.26	6700.62
363+00.00	5.00	9.26	6709.88
363+50.00	5.00	9.26	6719.14
364+00.00	5.00	9.26	6728.40
364+50.00	5.00	9.26	6737.65
365+00.00	5.00	9.26	6746.91
365+50.00	5.00	9.26	6756.17
366+00.00	5.00	9.26	6765.43
366+50.00	5.00	9.26	6774.69
367+00.00	5.00	9.26	6783.95
367+50.00	5.00	9.26	6793.21
368+00.00	5.00	9.26	6802.47
368+50.00	5.00	9.26	6811.73
369+00.00	5.00	9.26	6820.99
369+50.00	5.00	9.26	6830.25
370+00.00	5.00	9.26	6839.51
370+50.00	5.00	9.26	6848.77

Material Table			
Station	Area	Volume	Cumulative Volume
371+00.00	5.00	9.26	6858.02
371+50.00	5.00	9.26	6867.28
372+00.00	5.00	9.26	6876.54
372+50.00	5.00	9.26	6885.80
373+00.00	5.00	9.26	6895.06
373+50.00	5.00	9.26	6904.32
374+00.00	5.00	9.26	6913.58
374+50.00	5.00	9.26	6922.84
375+00.00	5.00	9.26	6932.10
375+50.00	5.00	9.26	6941.36
376+00.00	5.00	9.26	6950.62
376+50.00	5.00	9.26	6959.88
377+00.00	5.00	9.26	6969.14
377+50.00	5.00	9.26	6978.40
378+00.00	5.00	9.26	6987.65
378+50.00	5.00	9.26	6996.91
379+00.00	5.00	9.26	7006.17
379+50.00	5.00	9.26	7015.43
380+00.00	5.00	9.26	7024.69
380+50.00	5.00	9.26	7033.95

Material Table			
Station	Area	Volume	Cumulative Volume
381+00.00	5.00	9.26	7043.21
381+50.00	5.00	9.26	7052.47
382+00.00	5.00	9.26	7061.73
382+50.00	5.00	9.26	7070.99
383+00.00	5.00	9.26	7080.25
383+50.00	5.00	9.26	7089.51
384+00.00	5.00	9.26	7098.77
384+50.00	5.00	9.26	7108.02
385+00.00	5.00	9.26	7117.28
385+50.00	5.00	9.26	7126.54
386+00.00	5.00	9.26	7135.80
386+50.00	5.00	9.26	7145.06
387+00.00	5.00	9.26	7154.32
387+50.00	5.00	9.26	7163.58
388+00.00	5.00	9.26	7172.84
388+50.00	5.00	9.26	7182.10
389+00.00	5.00	9.26	7191.36
389+50.00	5.00	9.26	7200.62
390+00.00	5.00	9.26	7209.88
390+50.00	5.00	9.26	7219.14

Material Table			
Station	Area	Volume	Cumulative Volume
391+00.00	5.00	9.26	7228.40
391+50.00	5.00	9.26	7237.65
392+00.00	5.00	9.26	7246.91
392+50.00	5.00	9.26	7256.17
393+00.00	5.00	9.26	7265.43
393+50.00	5.00	9.26	7274.69
394+00.00	5.00	9.26	7283.95
394+50.00	5.00	9.26	7293.21
395+00.00	5.00	9.26	7302.47
395+50.00	5.00	9.26	7311.73
396+00.00	5.00	9.26	7320.99
396+50.00	5.00	9.26	7330.25
397+00.00	5.00	9.26	7339.51
397+50.00	5.00	9.26	7348.77
398+00.00	5.00	9.26	7358.02
398+50.00	5.00	9.26	7367.28
399+00.00	5.00	9.26	7376.54
399+50.00	5.00	9.26	7385.80
400+00.00	5.00	9.26	7395.06
400+50.00	5.00	9.26	7404.32

SUBGRADE

Material Table			
Station	Area	Volume	Cumulative Volume
401+00.00	5.00	9.26	7413.58
401+50.00	5.00	9.26	7422.84
402+00.00	5.00	9.26	7432.10
402+50.00	5.00	9.26	7441.36
403+00.00	5.00	9.26	7450.62
403+50.00	5.00	9.26	7459.88
404+00.00	5.00	9.26	7469.14
404+50.00	5.00	9.26	7478.40
405+00.00	5.00	9.26	7487.65
405+50.00	5.00	9.26	7496.91
406+00.00	5.00	9.26	7506.17
406+50.00	5.00	9.26	7515.43
407+00.00	5.00	9.26	7524.69
407+50.00	5.00	9.26	7533.95
408+00.00	5.00	9.26	7543.21
408+50.00	5.00	9.26	7552.47
409+00.00	5.00	9.26	7561.73
409+50.00	5.00	9.26	7570.99
410+00.00	5.00	9.26	7580.25
410+50.00	5.00	9.26	7589.51

Material Table			
Station	Area	Volume	Cumulative Volume
411+00.00	5.00	9.26	7598.77
411+50.00	5.00	9.26	7608.02
412+00.00	5.00	9.26	7617.28
412+50.00	5.00	9.26	7626.54
413+00.00			

PAVEMENT

Material Table			
Station	Area	Volume	Cumulative Volume
0+00.00	4.17	0.00	0.00
0+50.00	4.17	7.72	7.72
1+00.00	4.17	7.72	15.43
1+50.00	4.17	7.72	23.15
2+00.00	4.17	7.72	30.86
2+50.00	4.17	7.72	38.58
3+00.00	4.17	7.72	46.30
3+50.00	4.17	7.72	54.01
4+00.00	4.17	7.72	61.73
4+50.00	4.17	7.72	69.44
5+00.00	4.17	7.72	77.16
5+50.00	4.17	7.72	84.88
6+00.00	4.17	7.72	92.59
6+50.00	4.17	7.72	100.31
7+00.00	4.17	7.72	108.02
7+50.00	4.17	7.72	115.74
8+00.00	4.17	7.72	123.46
8+50.00	4.17	7.72	131.17
9+00.00	4.17	7.72	138.89
9+50.00	4.17	7.72	146.60

Material Table			
Station	Area	Volume	Cumulative Volume
10+00.00	4.17	7.72	154.32
10+50.00	4.17	7.72	162.04
11+00.00	4.17	7.72	169.75
11+50.00	4.17	7.72	177.47
12+00.00	4.17	7.72	185.19
12+50.00	4.17	7.72	192.90
13+00.00	4.17	7.72	200.62
13+50.00	4.17	7.72	208.33
14+00.00	0.00	2.57	210.91
14+50.00	4.17	2.57	213.48
15+00.00	4.17	7.72	221.19
15+50.00	4.17	7.72	228.91
16+00.00	4.17	7.72	236.63
16+50.00	4.17	7.72	244.34
17+00.00	4.17	7.72	252.06
17+50.00	4.17	7.72	259.77
18+00.00	4.17	7.72	267.49
18+50.00	4.17	7.72	275.21
19+00.00	4.17	7.72	282.92
19+50.00	4.17	7.72	290.64

Material Table			
Station	Area	Volume	Cumulative Volume
20+00.00	4.17	7.72	298.35
20+50.00	4.17	7.72	306.07
21+00.00	4.17	7.72	313.79
21+50.00	4.17	7.72	321.50
22+00.00	4.17	7.72	329.22
22+50.00	4.17	7.72	336.93
23+00.00	4.17	7.72	344.65
23+50.00	4.17	7.72	352.37
24+00.00	4.17	7.72	360.08
24+50.00	4.17	7.72	367.80
25+00.00	4.17	7.72	375.51
25+50.00	4.17	7.72	383.23
26+00.00	4.17	7.72	390.95
26+50.00	4.17	7.72	398.66
27+00.00	4.17	7.72	406.38
27+50.00	4.17	7.72	414.09
28+00.00	4.17	7.72	421.81
28+50.00	4.17	7.72	429.53
29+00.00	4.17	7.72	437.24
29+50.00	4.17	7.72	444.96

Material Table			
Station	Area	Volume	Cumulative Volume
30+00.00	4.17	7.72	452.67
30+50.00	4.17	7.72	460.39
31+00.00	4.17	7.72	468.11
31+50.00	4.17	7.72	475.82
32+00.00	4.17	7.72	483.54
32+50.00	4.17	7.72	491.26
33+00.00	4.17	7.72	498.97
33+50.00	4.17	7.72	506.69
34+00.00	4.17	7.72	514.40
34+50.00	4.17	7.72	522.12
35+00.00	4.17	7.72	529.84
35+50.00	4.17	7.72	537.55
36+00.00	4.17	7.72	545.27
36+50.00	4.17	7.72	552.98
37+00.00	4.17	7.72	560.70
37+50.00	4.17	7.72	568.42
38+00.00	4.17	7.72	576.13
38+50.00	4.17	7.72	583.85
39+00.00	4.17	7.72	591.56
39+50.00	4.17	7.72	599.28

Material Table			
Station	Area	Volume	Cumulative Volume
40+00.00	4.17	7.72	607.00
40+50.00	4.17	7.72	614.71
41+00.00	4.17	7.72	622.43
41+50.00	4.17	7.72	630.14
42+00.00	4.17	7.72	637.86
42+50.00	4.17	7.72	645.58
43+00.00	4.17	7.72	653.29
43+50.00	4.17	7.72	661.01
44+00.00	4.17	7.72	668.72
44+50.00	4.17	7.72	676.44
45+00.00	4.17	7.72	684.16
45+50.00	4.17	7.72	691.87
46+00.00	4.17	7.72	699.59
46+50.00	4.17	7.72	707.30
47+00.00	4.17	7.72	715.02
47+50.00	4.17	7.72	722.74
48+00.00	4.17	7.72	730.45
48+50.00	4.17	7.72	738.17
49+00.00	4.17	7.72	745.88
49+50.00	4.17	7.72	753.60

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Material Table			
Station	Area	Volume	Cumulative Volume
50+00.00	4.17	7.72	761.32
50+50.00	4.17	7.72	769.03
51+00.00	4.17	7.72	776.75
51+50.00	4.17	7.72	784.47
52+00.00	4.17	7.72	792.18
52+50.00	4.17	7.72	799.90
53+00.00	4.17	7.72	807.61
53+50.00	4.17	7.72	815.33
54+00.00	4.17	7.72	823.05
54+50.00	4.17	7.72	830.76
55+00.00	4.17	7.72	838.48
55+50.00	4.17	7.72	846.19
56+00.00	4.17	7.72	853.91
56+50.00	4.17	7.72	861.63
57+00.00	4.17	7.72	869.34
57+50.00	4.17	7.72	877.06
58+00.00	4.17	7.72	884.77
58+50.00	4.17	7.72	892.49
59+00.00	4.17	7.72	900.21
59+50.00	4.17	7.72	907.92

Material Table			
Station	Area	Volume	Cumulative Volume
60+00.00	4.17	7.72	915.64
60+50.00	4.17	7.72	923.35
61+00.00	4.17	7.72	931.07
61+50.00	4.17	7.72	938.79
62+00.00	4.17	7.72	946.50
62+50.00	4.17	7.72	954.22
63+00.00	4.17	7.72	961.93
63+50.00	4.17	7.72	969.65
64+00.00	4.17	7.72	977.37
64+50.00	4.17	7.72	985.08
65+00.00	4.17	7.72	992.80
65+50.00	4.17	7.72	1000.51
66+00.00	4.17	7.72	1008.23
66+50.00	4.17	7.72	1015.95
67+00.00	4.17	7.72	1023.66
67+50.00	4.17	7.72	1031.38
68+00.00	4.17	7.72	1039.09
68+50.00	4.17	7.72	1046.81
69+00.00	4.17	7.72	1054.53
69+50.00	4.17	7.72	1062.24

Material Table			
Station	Area	Volume	Cumulative Volume
70+00.00	4.17	7.72	1069.96
70+50.00	4.17	7.72	1077.67
71+00.00	4.17	7.72	1085.39
71+50.00	4.17	7.72	1093.11
72+00.00	4.17	7.72	1100.82
72+50.00	4.17	7.72	1108.54
73+00.00	4.17	7.72	1116.26
73+50.00	4.17	7.72	1123.97
74+00.00	4.17	7.72	1131.69
74+50.00	4.17	7.72	1139.40
75+00.00	4.17	7.72	1147.12
75+50.00	4.17	7.72	1154.84
76+00.00	4.17	7.72	1162.55
76+50.00	4.17	7.72	1170.27
77+00.00	4.17	7.72	1177.98
77+50.00	4.17	7.72	1185.70
78+00.00	4.17	7.72	1193.42
78+50.00	4.17	7.72	1201.13
79+00.00	4.17	7.72	1208.85
79+50.00	4.17	7.72	1216.56

Material Table			
Station	Area	Volume	Cumulative Volume
80+00.00	4.17	7.72	1224.28
80+50.00	4.17	7.72	1232.00
81+00.00	4.17	7.72	1239.71
81+50.00	4.17	7.72	1247.43
82+00.00	4.17	7.72	1255.14
82+50.00	4.17	7.72	1262.86
83+00.00	4.17	7.72	1270.58
83+50.00	4.17	7.72	1278.29
84+00.00	4.17	7.72	1286.01
84+50.00	4.17	7.72	1293.72
85+00.00	4.17	7.72	1301.44
85+50.00	4.17	7.72	1309.16
86+00.00	4.17	7.72	1316.87
86+50.00	4.17	7.72	1324.59
87+00.00	4.17	7.72	1332.30
87+50.00	4.17	7.72	1340.02
88+00.00	4.17	7.72	1347.74
88+50.00	4.17	7.72	1355.45
89+00.00	4.17	7.72	1363.17
89+50.00	4.17	7.72	1370.88

Material Table			
Station	Area	Volume	Cumulative Volume
90+00.00	4.17	7.72	1378.60
90+50.00	4.17	7.72	1386.32
91+00.00	4.17	7.72	1394.03
91+50.00	4.17	7.72	1401.75
92+00.00	4.17	7.72	1409.47
92+50.00	4.17	7.72	1417.18
93+00.00	4.17	7.72	1424.90
93+50.00	4.17	7.72	1432.61
94+00.00	4.17	7.72	1440.33
94+50.00	4.17	7.72	1448.05
95+00.00	4.17	7.72	1455.76
95+50.00	4.17	7.72	1463.48
96+00.00	4.17	7.72	1471.19
96+50.00	4.17	7.72	1478.91
97+00.00	4.17	7.72	1486.63
97+50.00	4.17	7.72	1494.34
98+00.00	4.17	7.72	1502.06
98+50.00	4.17	7.72	1509.77
99+00.00	4.17	7.72	1517.49
99+50.00	4.17	7.72	1525.21

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Material Table			
Station	Area	Volume	Cumulative Volume
100+00.00	4.17	7.72	1532.92
100+50.00	4.17	7.72	1540.64
101+00.00	4.17	7.72	1548.35
101+50.00	4.17	7.72	1556.07
102+00.00	4.17	7.72	1563.79
102+50.00	4.17	7.72	1571.50
103+00.00	4.17	7.72	1579.22
103+50.00	4.17	7.72	1586.93
104+00.00	4.17	7.72	1594.65
104+50.00	4.17	7.72	1602.37
105+00.00	4.17	7.72	1610.08
105+50.00	4.17	7.72	1617.80
106+00.00	4.17	7.72	1625.51
106+50.00	4.17	7.72	1633.23
107+00.00	4.17	7.72	1640.95
107+50.00	4.17	7.72	1648.66
108+00.00	4.17	7.72	1656.38
108+50.00	4.17	7.72	1664.09
109+00.00	4.17	7.72	1671.81
109+50.00	4.17	7.72	1679.53

Material Table			
Station	Area	Volume	Cumulative Volume
110+00.00	4.17	7.72	1687.24
110+50.00	4.17	7.72	1694.96
111+00.00	4.17	7.72	1702.67
111+50.00	4.17	7.72	1710.39
112+00.00	4.17	7.72	1718.11
112+50.00	4.17	7.72	1725.82
113+00.00	4.17	7.72	1733.54
113+50.00	4.17	7.72	1741.26
114+00.00	4.17	7.72	1748.97
114+50.00	4.17	7.72	1756.69
115+00.00	4.17	7.72	1764.40
115+50.00	4.17	7.72	1772.12
116+00.00	4.17</		

PAVEMENT

Material Table with columns: Station, Area, Volume, Cumulative Volume. Rows 150+00.00 to 160+00.00.

Material Table with columns: Station, Area, Volume, Cumulative Volume. Rows 160+50.00 to 170+00.00.

Material Table with columns: Station, Area, Volume, Cumulative Volume. Rows 170+50.00 to 180+00.00.

Material Table with columns: Station, Area, Volume, Cumulative Volume. Rows 180+50.00 to 190+00.00.

Material Table with columns: Station, Area, Volume, Cumulative Volume. Rows 190+50.00 to 200+00.00.

PAVEMENT

Material Table with columns: Station, Area, Volume, Cumulative Volume. Rows 200+50.00 to 210+00.00.

Material Table with columns: Station, Area, Volume, Cumulative Volume. Rows 210+50.00 to 220+00.00.

Material Table with columns: Station, Area, Volume, Cumulative Volume. Rows 220+50.00 to 230+00.00.

Material Table with columns: Station, Area, Volume, Cumulative Volume. Rows 231+00.00 to 240+50.00.

Material Table with columns: Station, Area, Volume, Cumulative Volume. Rows 241+00.00 to 250+50.00.

PAVEMENT

Material Table with columns: Station, Area, Volume, Cumulative Volume. Rows 251+00.00 to 260+50.00.

Material Table with columns: Station, Area, Volume, Cumulative Volume. Rows 261+00.00 to 270+50.00.

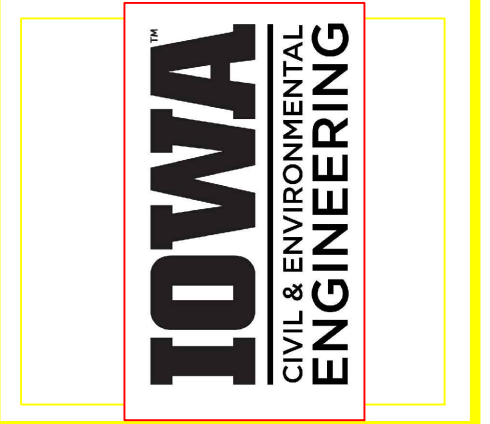
Material Table with columns: Station, Area, Volume, Cumulative Volume. Rows 271+00.00 to 280+50.00.

Material Table with columns: Station, Area, Volume, Cumulative Volume. Rows 281+00.00 to 290+50.00.

Material Table with columns: Station, Area, Volume, Cumulative Volume. Rows 291+00.00 to 300+50.00.

PROJECT: CEE: 4850 DATE: 4/17/2020 DRAWN BY: cds REVISION:

THE UNIVERSITY OF IOWA CIVIL AND ENVIRONMENTAL ENGINEERING 4105 SEAMANS CENTER FOR THE ENGINEERING ARTS AND SCIENCES IOWA CITY, IOWA 52242 PHONE: 319.335.5647 FAX: 319.335.5660 EMAIL: civil-hawks@iowa.edu



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Volga Trail

SHEET NAME PAVEMENT

SHEET NO. VT-10

PAVEMENT

Material Table with columns: Station, Area, Volume, Cumulative Volume. Rows 301+00.00 to 310+50.00.

Material Table with columns: Station, Area, Volume, Cumulative Volume. Rows 311+00.00 to 320+50.00.

Material Table with columns: Station, Area, Volume, Cumulative Volume. Rows 321+00.00 to 330+50.00.

Material Table with columns: Station, Area, Volume, Cumulative Volume. Rows 331+00.00 to 340+50.00.

Material Table with columns: Station, Area, Volume, Cumulative Volume. Rows 341+00.00 to 350+50.00.

PAVEMENT

Material Table with columns: Station, Area, Volume, Cumulative Volume. Rows 351+00.00 to 360+50.00.

Material Table with columns: Station, Area, Volume, Cumulative Volume. Rows 361+00.00 to 370+50.00.

Material Table with columns: Station, Area, Volume, Cumulative Volume. Rows 371+00.00 to 380+50.00.

Material Table with columns: Station, Area, Volume, Cumulative Volume. Rows 381+00.00 to 390+50.00.

Material Table with columns: Station, Area, Volume, Cumulative Volume. Rows 391+00.00 to 400+50.00.

PAVEMENT

Material Table with columns: Station, Area, Volume, Cumulative Volume. Rows 401+00.00 to 410+50.00.

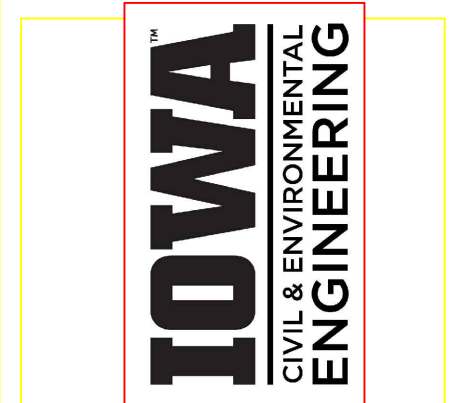
Material Table with columns: Station, Area, Volume, Cumulative Volume. Rows 411+00.00 to 420+50.00.

Material Table with columns: Station, Area, Volume, Cumulative Volume. Rows 421+00.00 to 431+00.00.

Material Table with columns: Station, Area, Volume, Cumulative Volume. Rows 431+50.00 to 440+19.93.

PROJECT: CEE: 4850
DATE: 4/17/2020
DRAWN BY: cds
REVISION:

THE UNIVERSITY OF IOWA
CIVIL AND ENVIRONMENTAL ENGINEERING
4105 SEAMANS CENTER FOR THE ENGINEERING ARTS AND SCIENCES
IOWA CITY, IOWA 52242
PHONE: 319.335.5647
FAX: 319.335.5660
EMAIL: civil-hawks@iowa.edu



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Volga Trail

SHEET NAME: PAVEMENT
SHEET NO.: VT-11