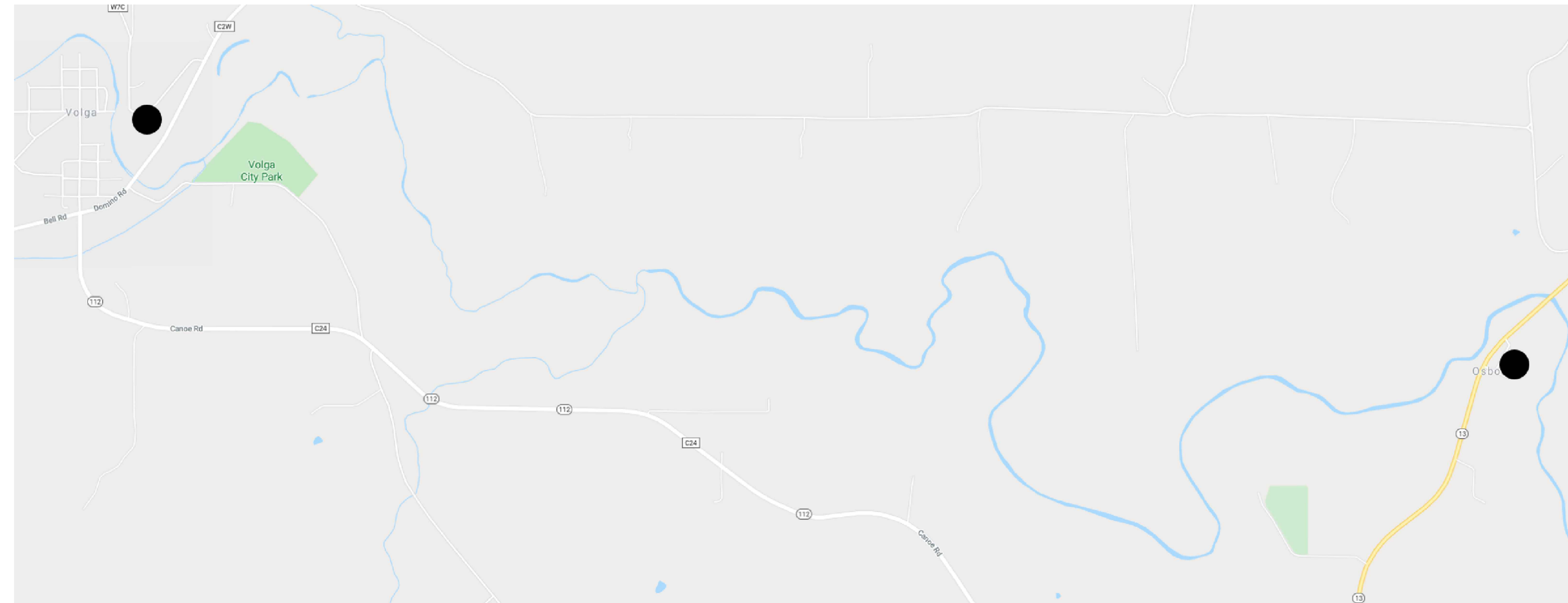


TopTier Design Engineers

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	
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SITE PLAN	SP-01 – SP-05
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TABULATION OF LENGTH, ELEVATION & DESIGN DATA

LENGTH	FEET	MILES
LENGTH	42585.32	8.07
ELEVATION		FEET
START ELEVATION		790.0
END ELEVATION		759.9
MAXIMUM ELEVATION		837.0
MINIMUM ELEVATION		746.3
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
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Volga Trail

SHEET NAME
TITLE SHEET

SHEET NO.
T-01

SUBGRADE:

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

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.

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”.

EROSION CONTROL:

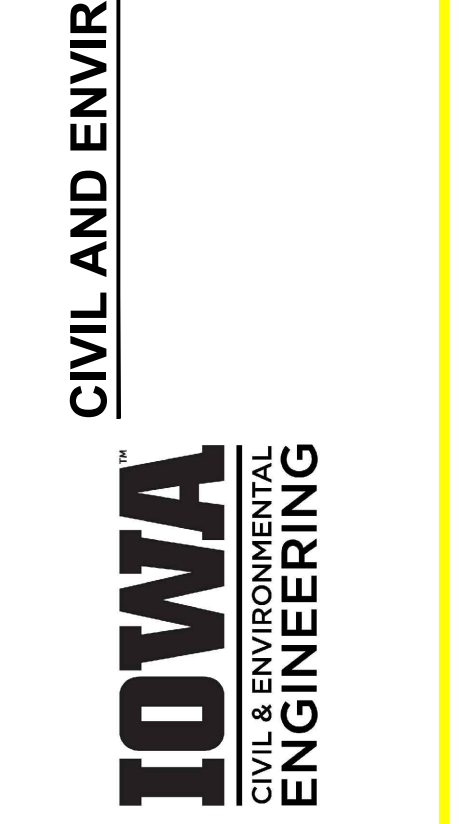
1. TURF REINFORCEMENT MATS SHALL BE INCLUDED TO THE TRAIL WHERE THERE IS RISK OF SCOURING IN FLOODING SITUATIONS
2. MATS SHALL CONSIST OF NYLON FILAMENT.
3. MATS SHALL BE APPLIED AFTER SEEDING SOIL.
4. MATS SHALL BE 4’ WIDE PAST BOTH EDGES OF PAVEMENT.
5. MATS SHALL HAVE 95% OPEN AREA TO ALLOW FOR VEGETATION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

TURF REINFORCEMENT MAT PLACEMENT LOCATIONS		
SECTION	START STATION	END STATION
1	35+00	58+00
2	94+00	193+00
3	295+00	305+00
4	371+00	396+00
5	422+00	425+00

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
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SHEET NAME
 GENERAL NOTES

SHEET NO.
N-01

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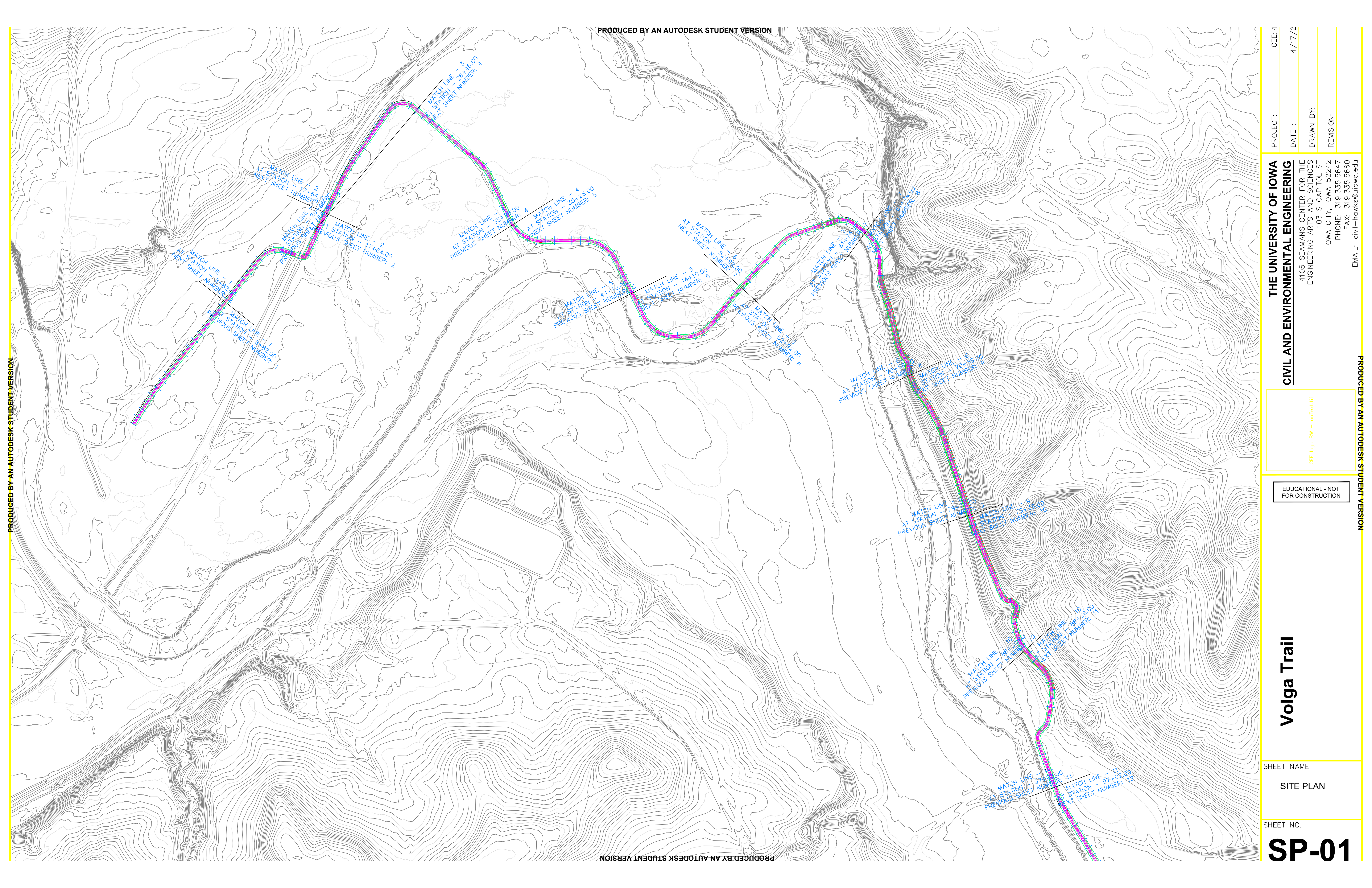
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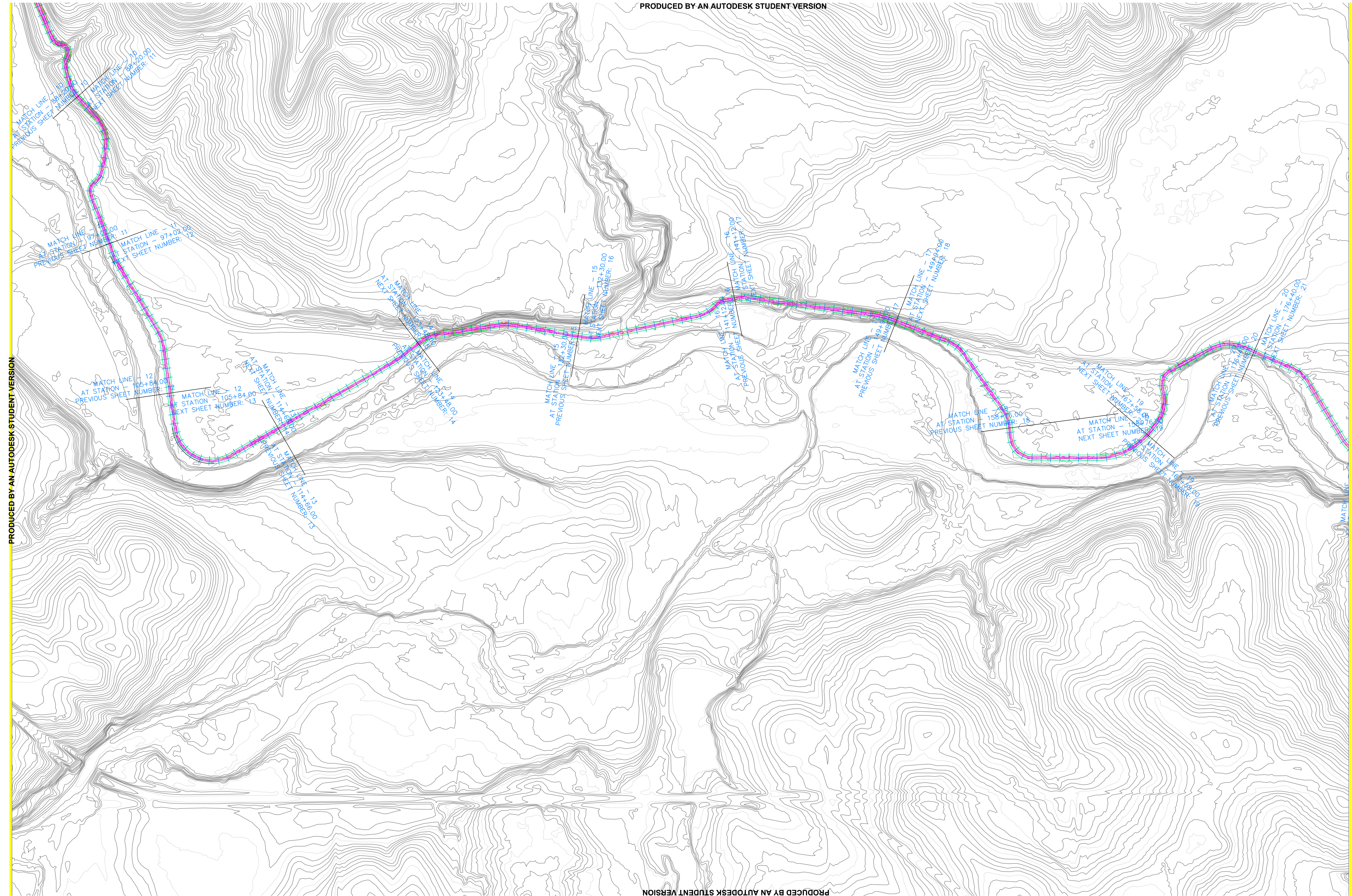
Volga Trail

SHEET NAME
 SITE PLAN

SHEET NO.
SP-01

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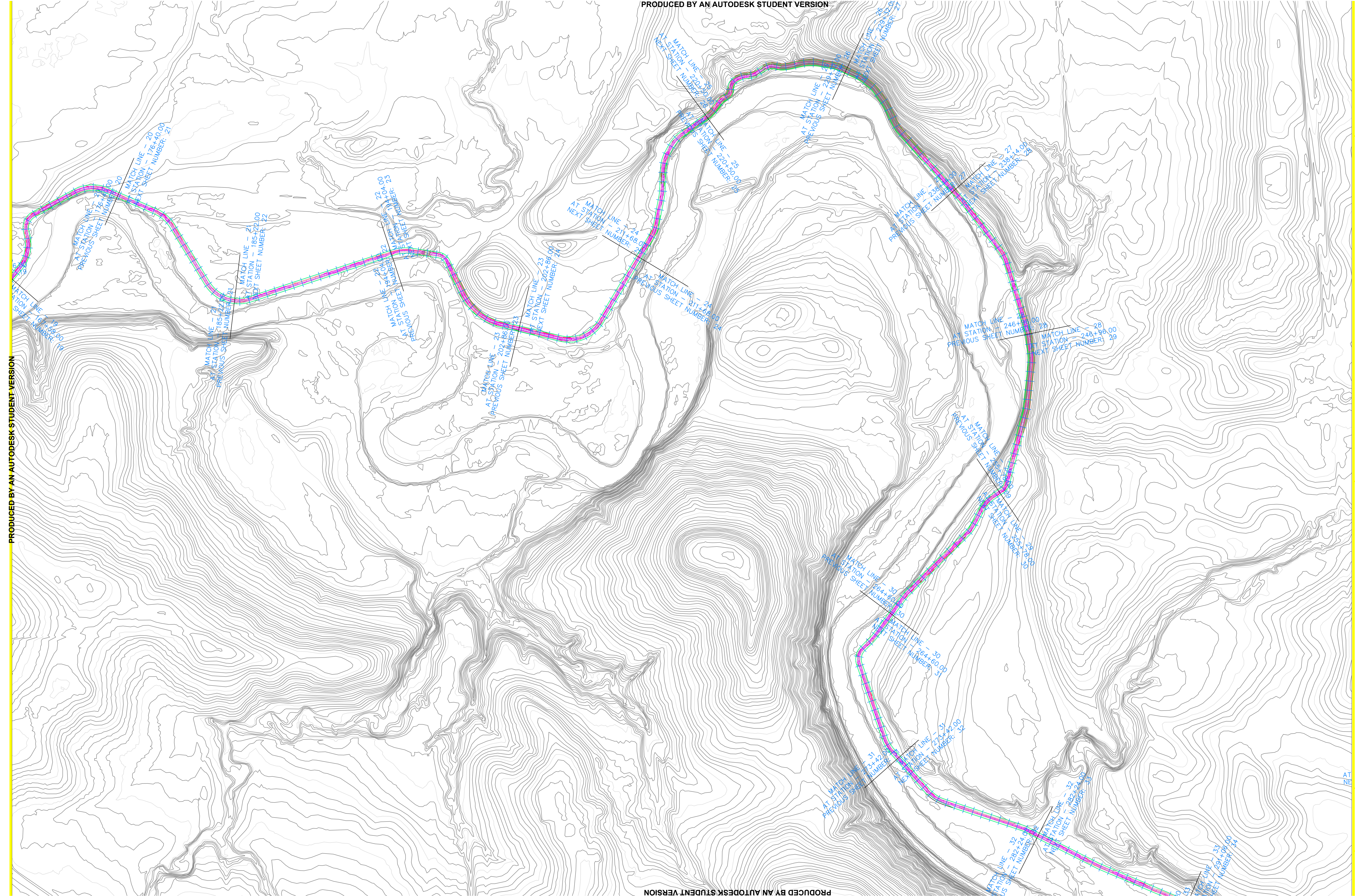


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Volga Trail

SHEET NAME	SITE PLAN
SHEET NO.	SP-02

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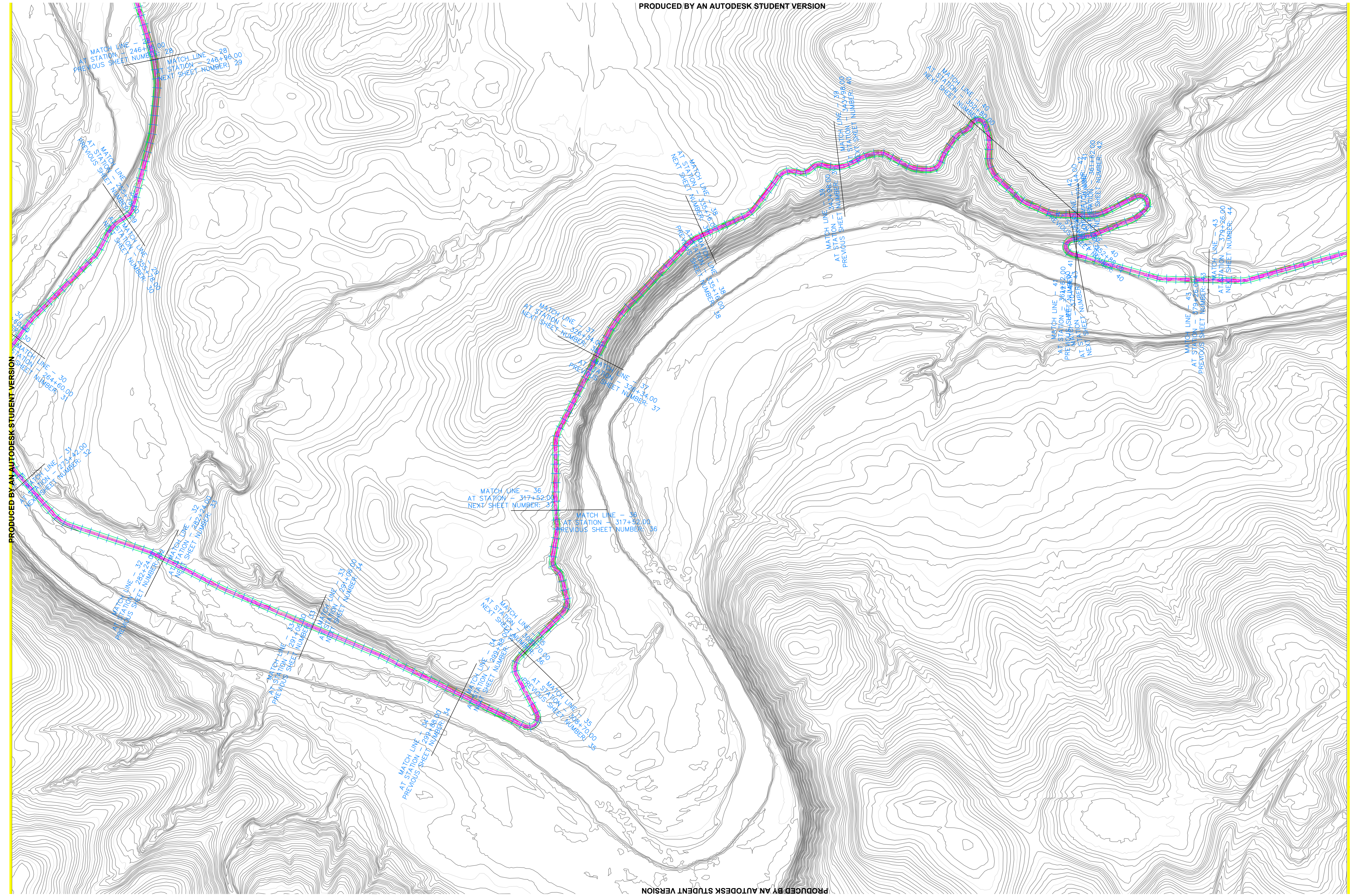
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Volga Trail

SHEET NAME
 SITE PLAN

SHEET NO.
SP-03



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	DATE :	4/17/2
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	REVISION:	
<p>SHEET NAME</p> <p>SITE PLAN</p>		
<p>SHEET NO.</p> <p>SP-04</p>		

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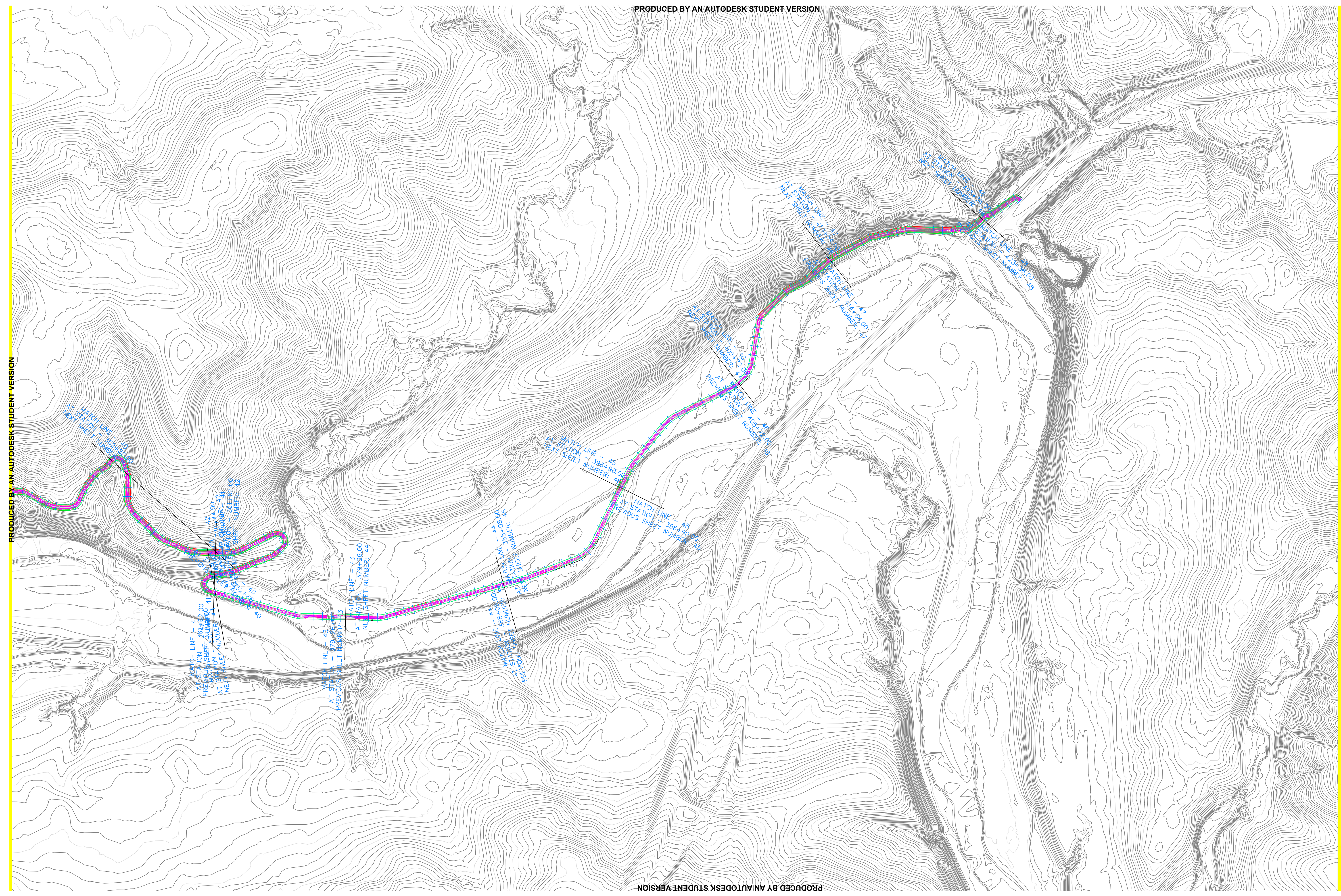
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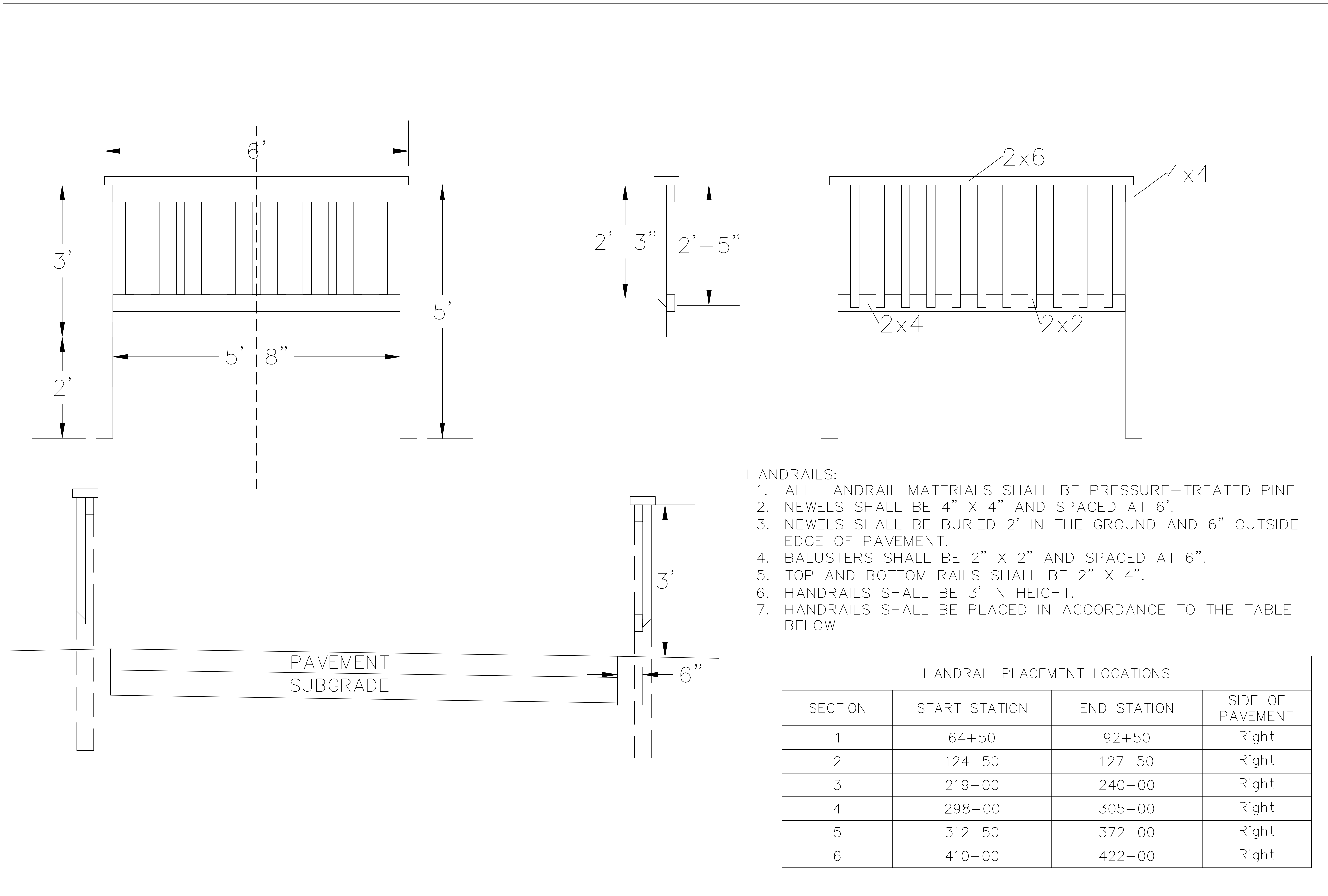
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Volga Trail

SHEET NAME
 SITE PLAN

SHEET NO.
SP-05

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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	64+50	92+50	Right
2	124+50	127+50	Right
3	219+00	240+00	Right
4	298+00	305+00	Right
5	312+50	372+00	Right
6	410+00	422+00	Right

PROJECT:	CEE:4E
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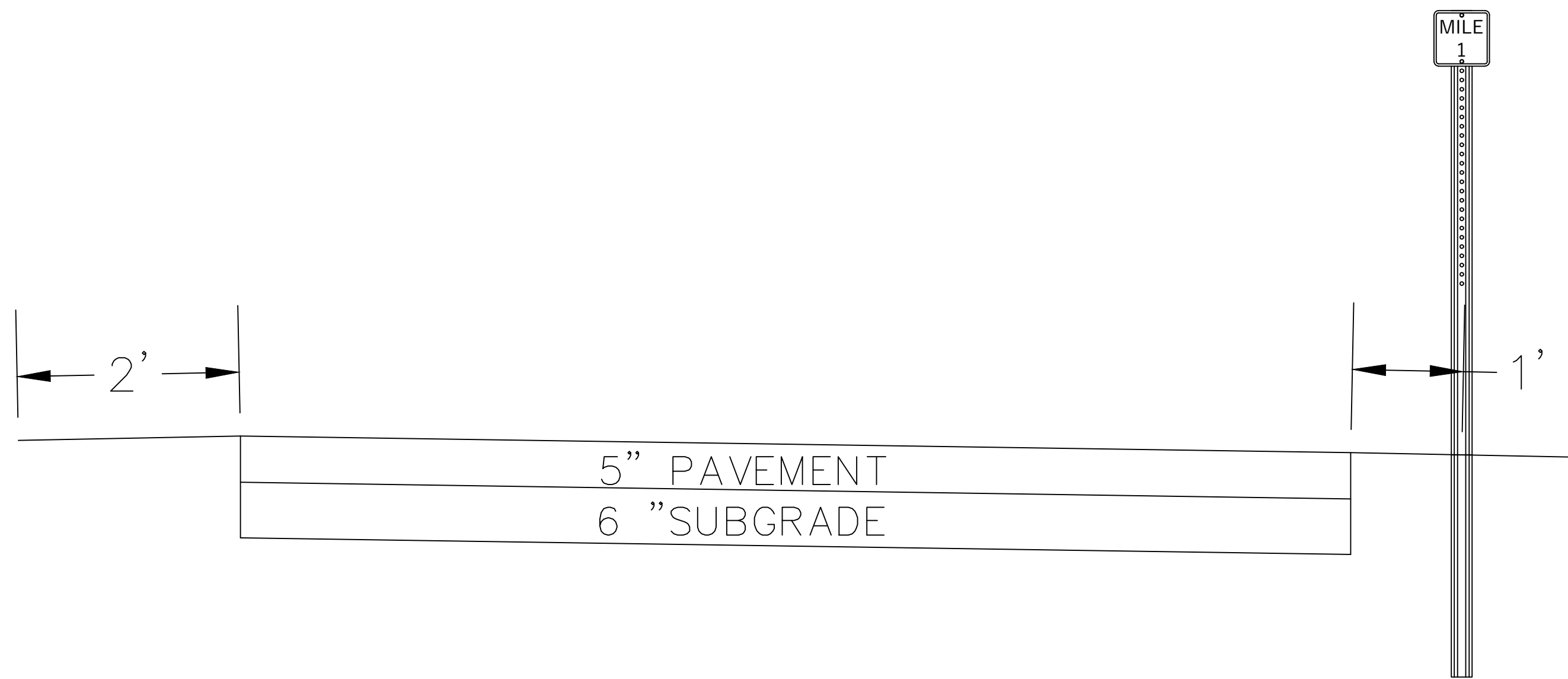
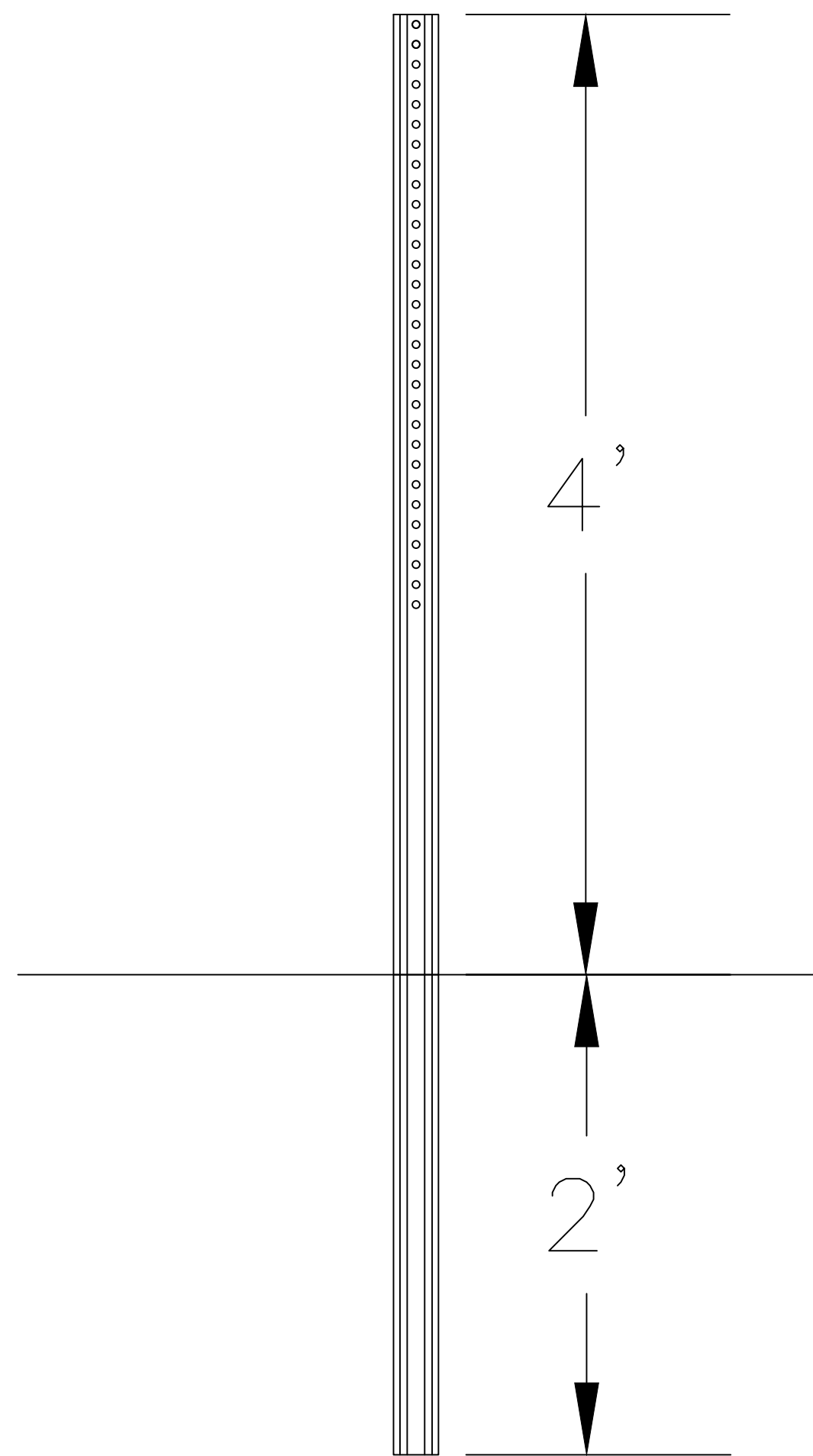
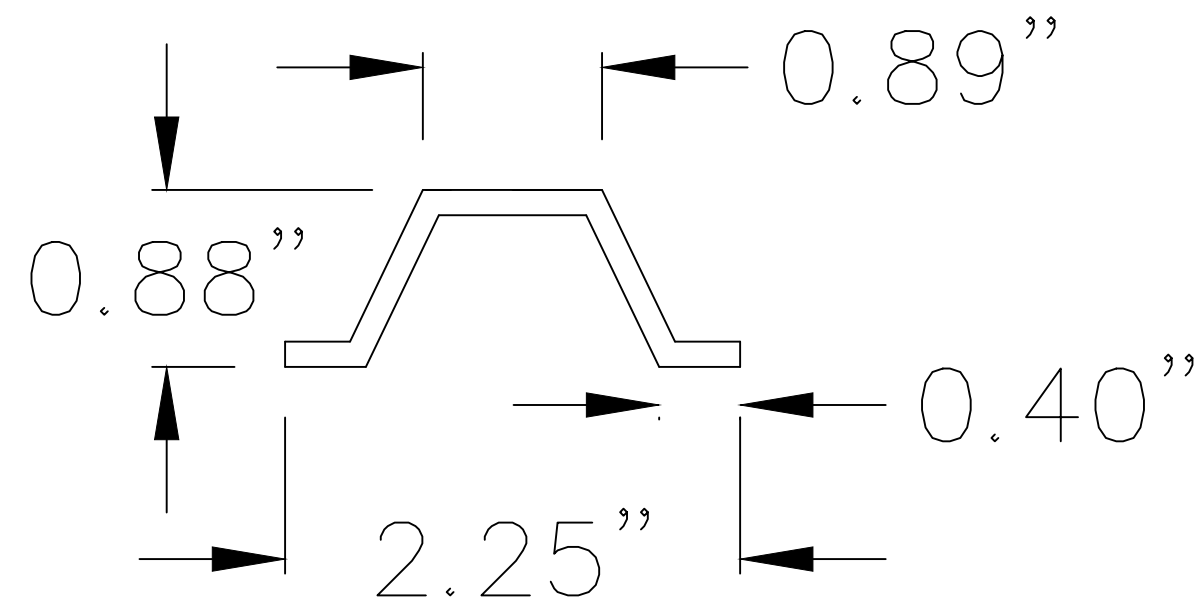
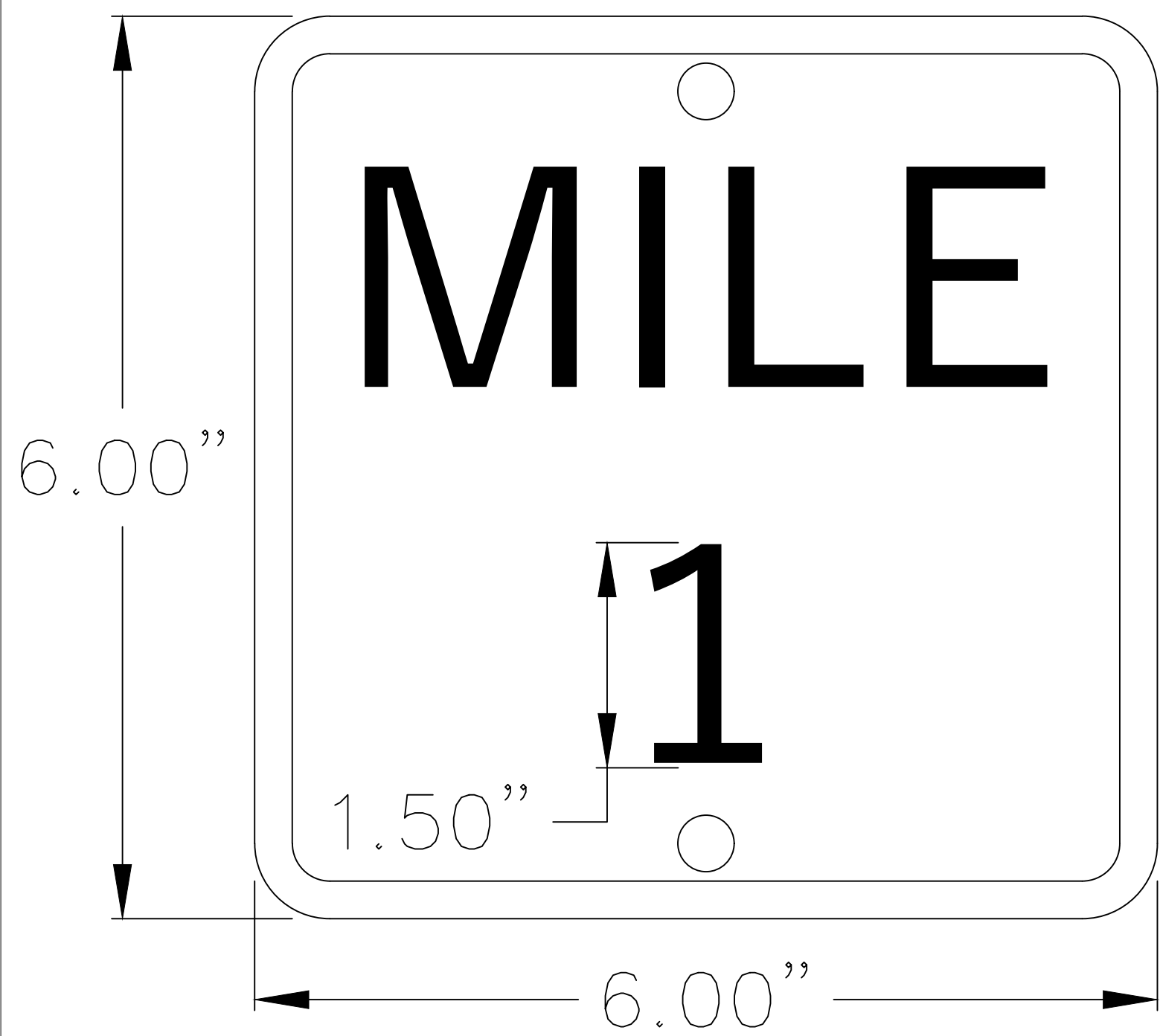
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Volga Trail

SHEET NAME
HANDRAILS

SHEET NO.
D-01



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)	3+10	LEFT
1 (EAST)	52+80	RIGHT
7 (WEST)	55+90	LEFT
2 (EAST)	105+60	RIGHT
6 (WEST)	108+70	LEFT
3 (EAST)	158+40	RIGHT
5 (WEST)	161+50	LEFT
4 (EAST)	211+20	RIGHT
4 (WEST)	214+30	LEFT
5 (EAST)	264+00	RIGHT
3 (WEST)	267+10	LEFT
6 (EAST)	316+80	RIGHT
2 (WEST)	319+90	LEFT
7 (EAST)	369+60	RIGHT
1 (WEST)	372+70	LEFT
8 (EAST)	422+40	RIGHT

PROJECT:	CEE-4E
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Volga Trail

SHEET NAME
MILE MARKERS

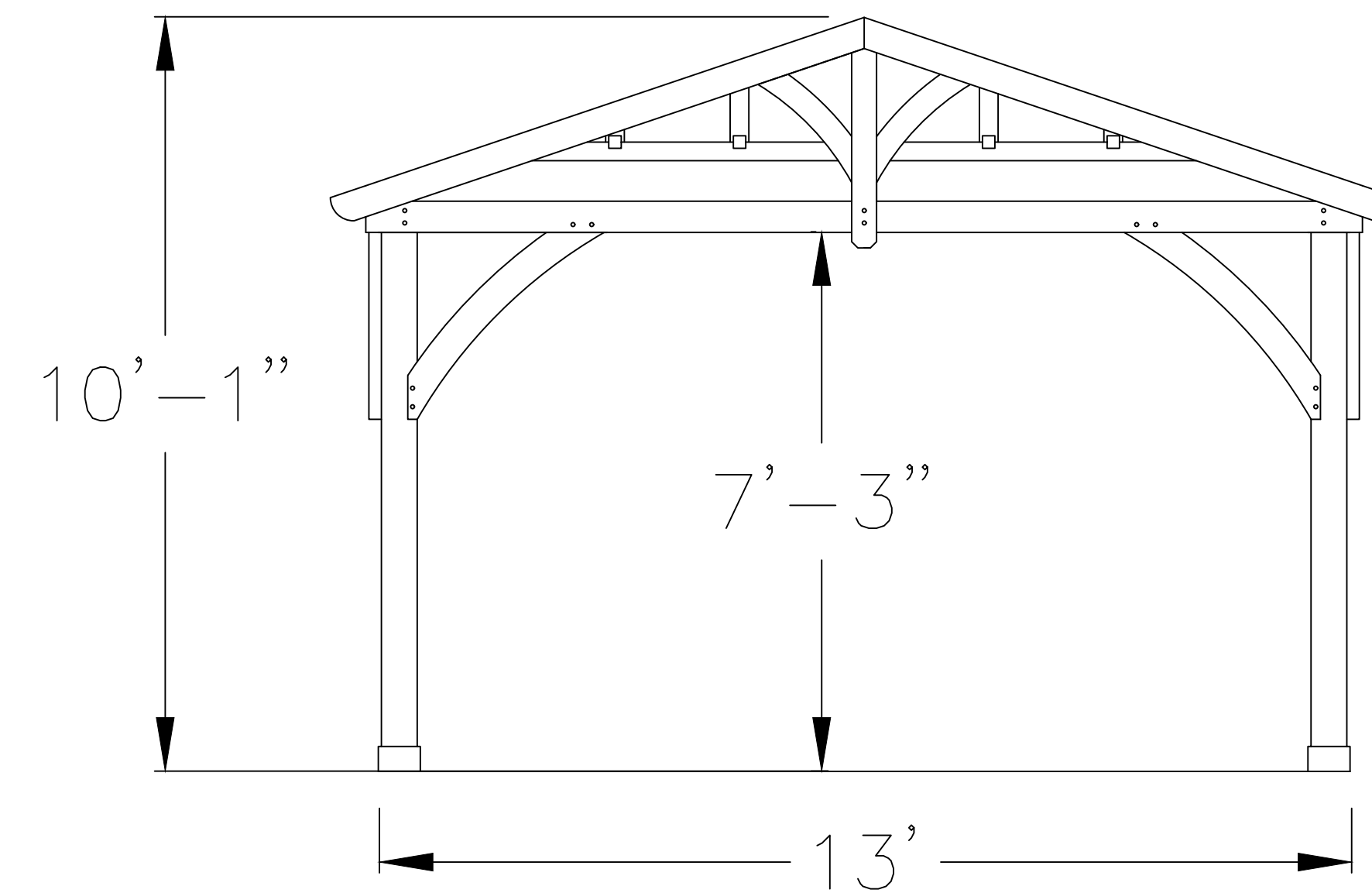
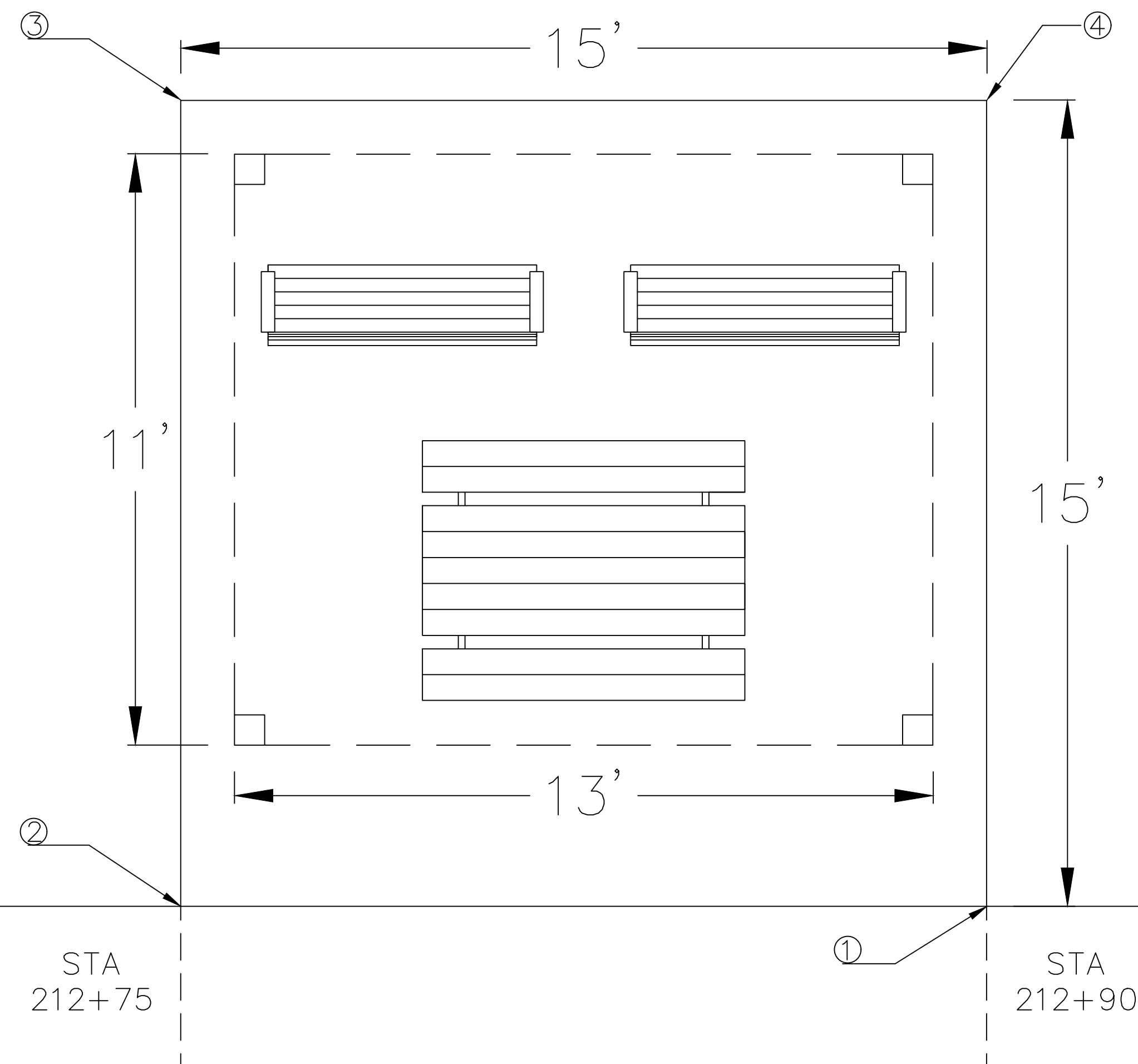
SHEET NO.
D-02

OUTLOOK POINT:

1. AN OUTLOOK POINT SHALL BE INSTALLED ON THE LEFT SIDE OF TRAIL PAVEMENT BETWEEN STATIONS 209+20 AND 209+35.
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	765.04'	15'		1.60%
2	764.28'	15'	-1.60%	-2.00%
3	764.98'	15'	2.00%	-1.60%
4	764.74'	15'	1.60%	2.00%
1	765.04'		-2.00%	

MATERIAL CALCULATIONS	
MATERIAL	VOLUME (CY)
CUT	4.05
FILL	3.24
PAVEMENT	4.17



PROJECT: CEE-4E
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Volga Trail

SHEET NAME
 OUTLOOK POINTS

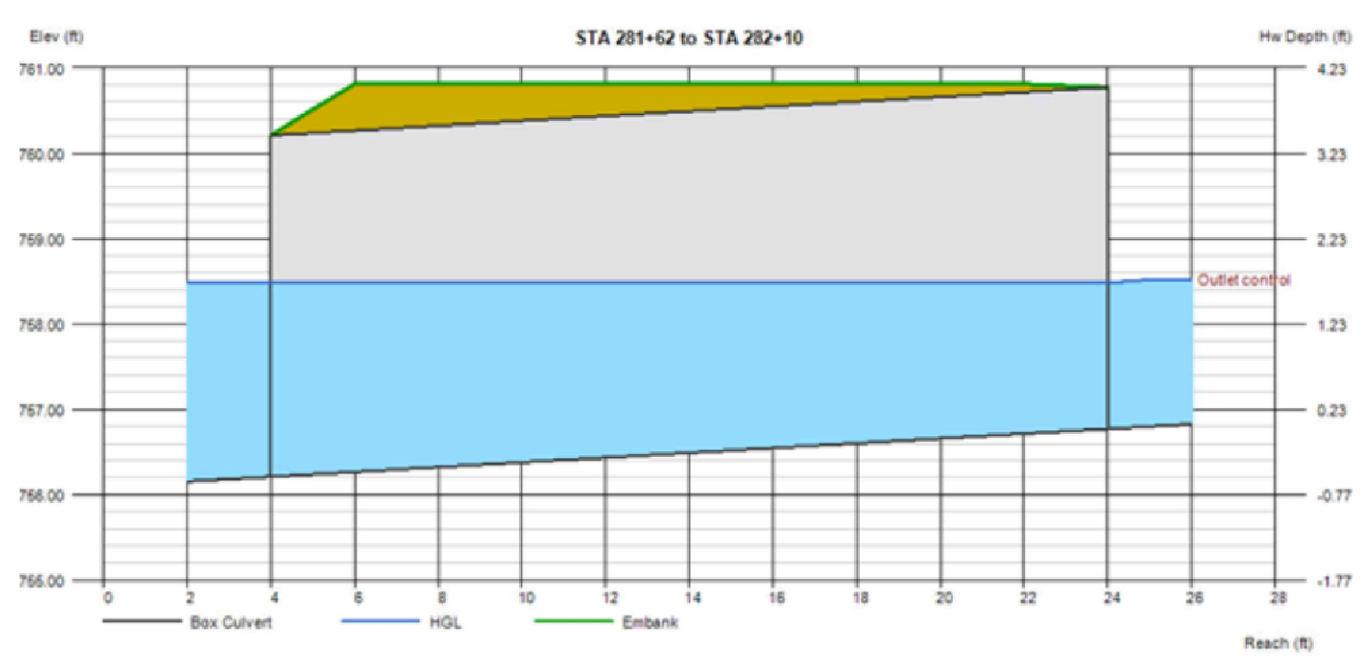
SHEET NO.

D-03

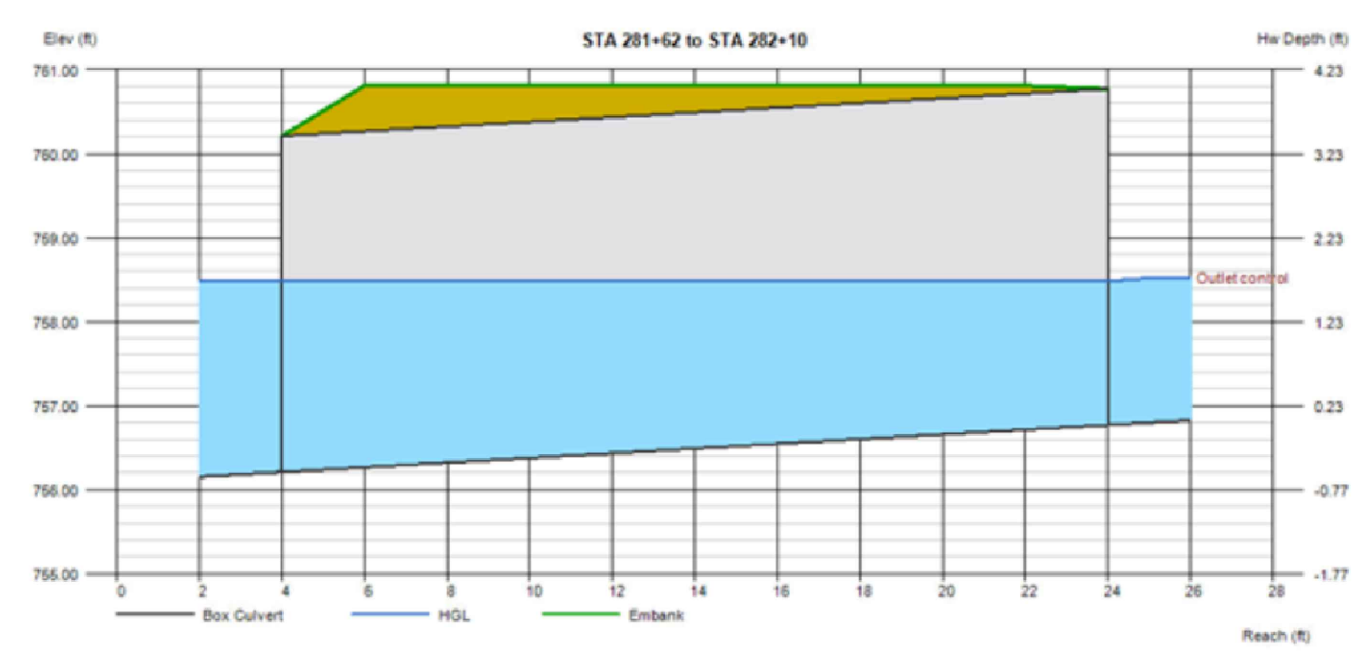
CULVERTS:

CULVERT DATA					
CULVERT	START STATION	END STATION	2-YR FLOOD FLOW (CFS)	100-YR FLOOD FLOW (CFS)	PROPOSED
1	134+66.50	135+14.50	193	1690	4 - 12'X4' RCB CULVERTS
2	244+05	244+25	119	1150	4 - 10'X4' RCB CULVERTS
3	281+62	282+10	108	719	4 - 12'X4' RCB CULVERTS
4	378+25	378+73	171	1260	4 - 12'X4' RCB CULVERTS

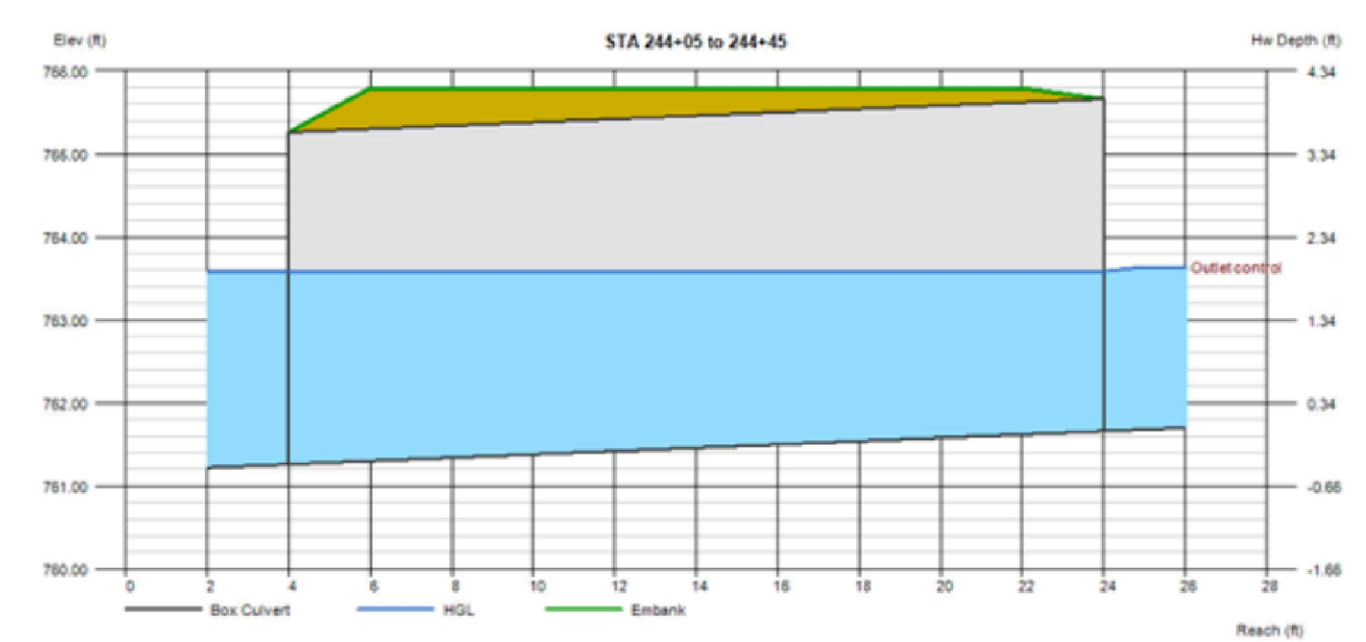
CULVERT 1:



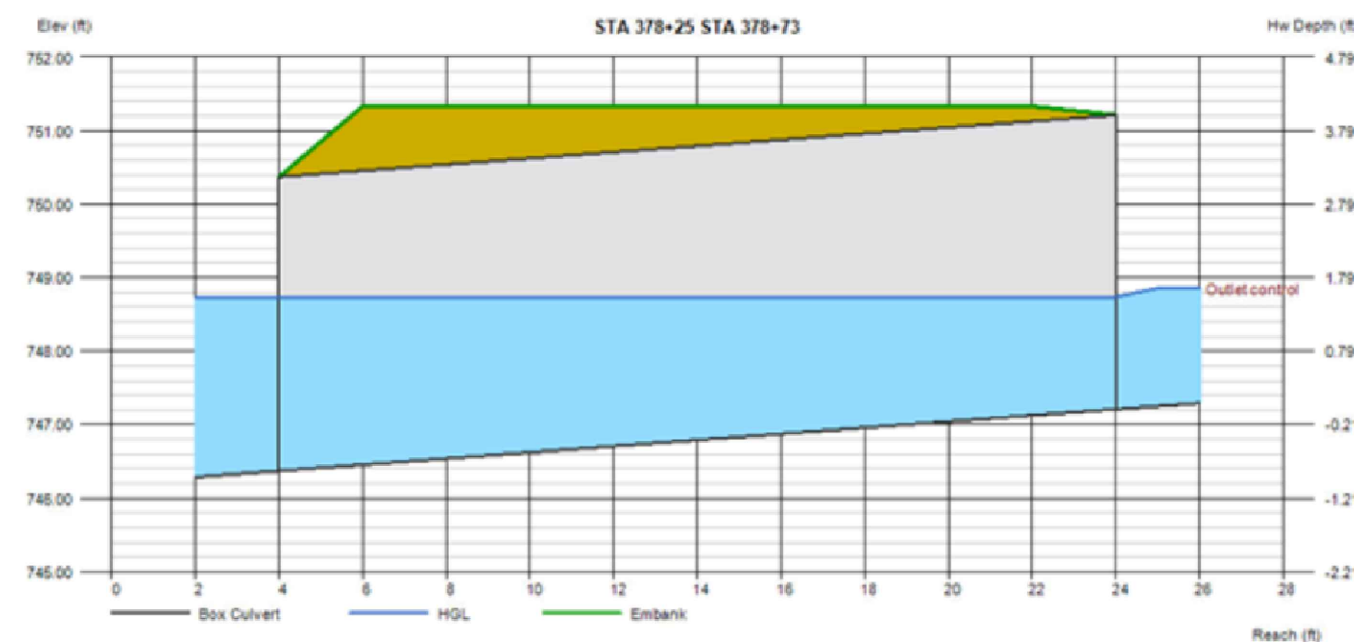
CULVERT 3:



CULVERT 2:



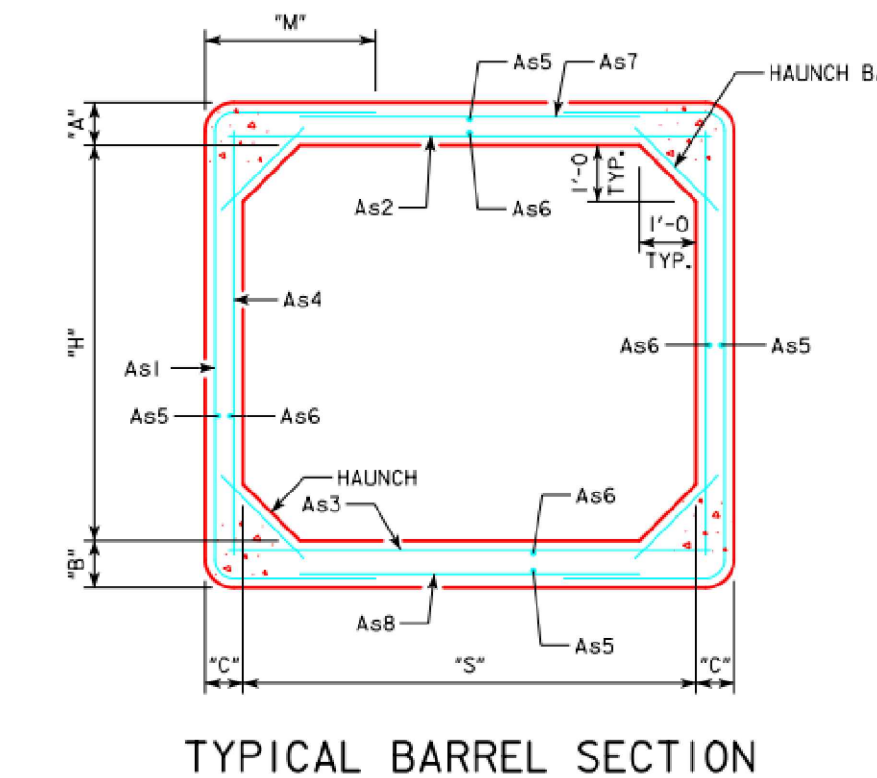
CULVERT 4:



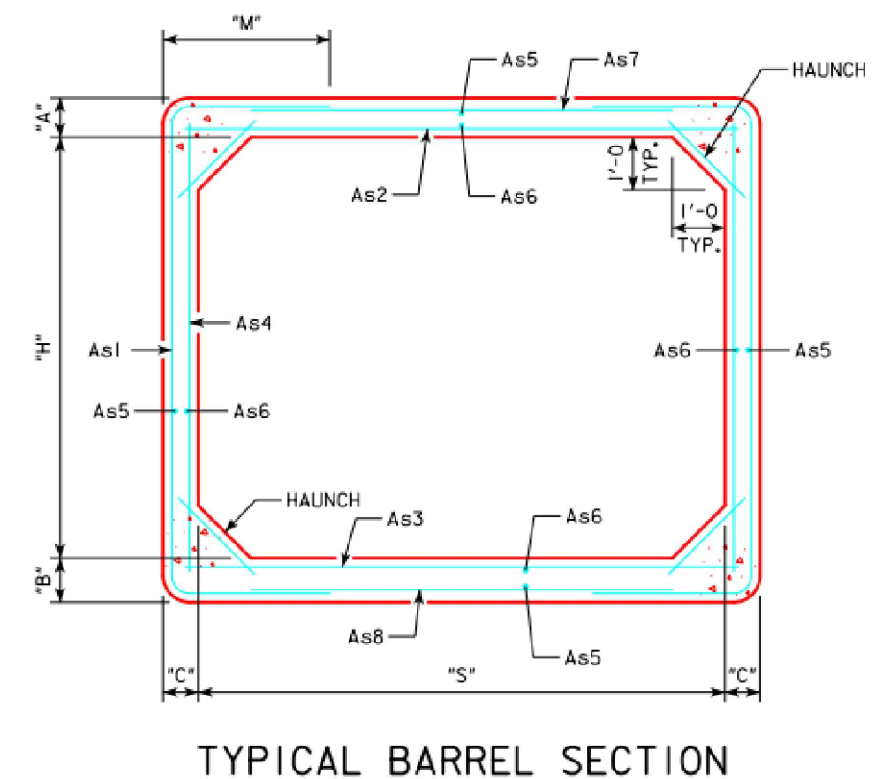
CULVERT TABLES AND SECTIONS:

- 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

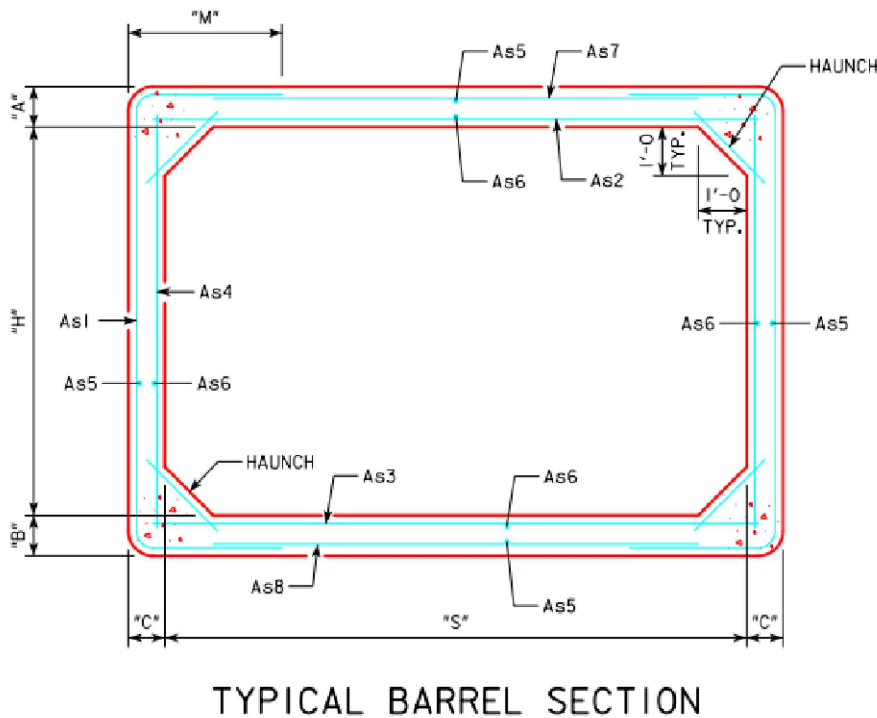
VARIABLE DIMENSIONS AND QUANTITIES FOR 8' SPAN BARREL SECTIONS																				
SIZE	DIMENSIONS							REINFORCEMENT REQUIREMENTS (IN ² /FT)								WEIGHT (LB/FT)				
	CLASS	f'c (ksi)	FILL	S	H	A	B	C	AREA	LENGTH	M	AREA	LENGTH	AREA	LENGTH		AREA	LENGTH		
8x4	1	5.0	2-9	8	4	9	10	8	0.47	10'-9	2'-10	0.42	8'-6	0.40	8'-6	0.20	4'-6	0.24	5'-4	3320
	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
	3	5.0	20-25	8	4	9	10	8	0.85	10'-9	2'-10	0.83	8'-6	0.86	8'-6	0.20	4'-6	0.24	5'-4	3320

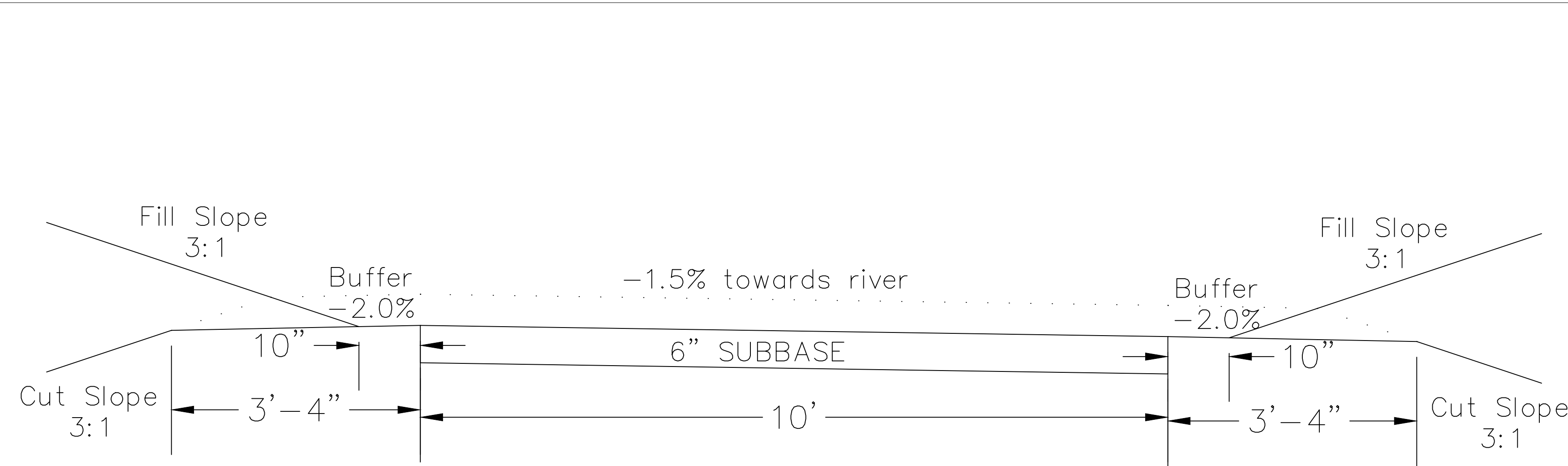


VARIABLE DIMENSIONS AND QUANTITIES FOR 10' SPAN BARREL SECTIONS																				
SIZE	DIMENSIONS							REINFORCEMENT REQUIREMENTS (IN ² /FT)								WEIGHT (LB/FT)				
	CLASS	f'c (ksi)	FILL	S	H	A	B	C	AREA	LENGTH	M	AREA	LENGTH	AREA	LENGTH		AREA	LENGTH		
10x4	1	5.0	2-11	10	4	9	10	8	0.72	10'-9	2'-10	0.62	10'-6	0.63	10'-6	0.20	4'-6	0.24	7'-4	3795
	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
	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	0.27	9'-0	4220

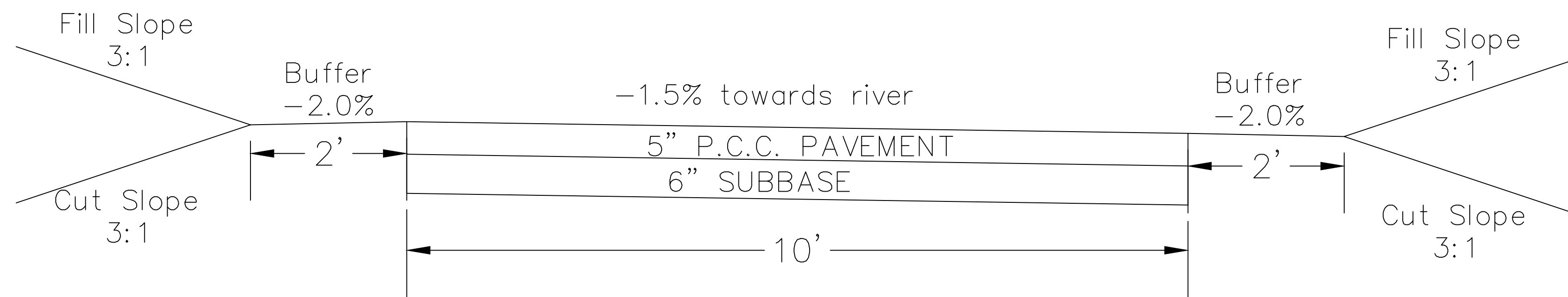


VARIABLE DIMENSIONS AND QUANTITIES FOR 12' SPAN BARREL SECTIONS																				
SIZE	DIMENSIONS							REINFORCEMENT REQUIREMENTS (IN ² /FT)								WEIGHT (LB/FT)				
	CLASS	f'c (ksi)	FILL	S	H	A	B	C	AREA	LENGTH	M	AREA	LENGTH	AREA	LENGTH		AREA	LENGTH		
12x4	1	5.0	2-9	12	4	9	10	8	0.98	12'-11	3'-11	0.74	12'-6	0.74	12'-6	0.20	4'-6	0.24	9'-0	4270
	2	5.0	10-15	12	4	9	10	9	1.27	15'-1	5'-0	0.99	12'-6	0.96	12'-6	0.22	4'-6	0.24	7'-10	4410
	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	0.27	9'-0	4915
	4	6.0	20-25	12	4	12	12	10	1.54	15'-0	4'-9	1.26	12'-6	1.27	12'-6	0.24	4'-6	0.29	9'-0	5400

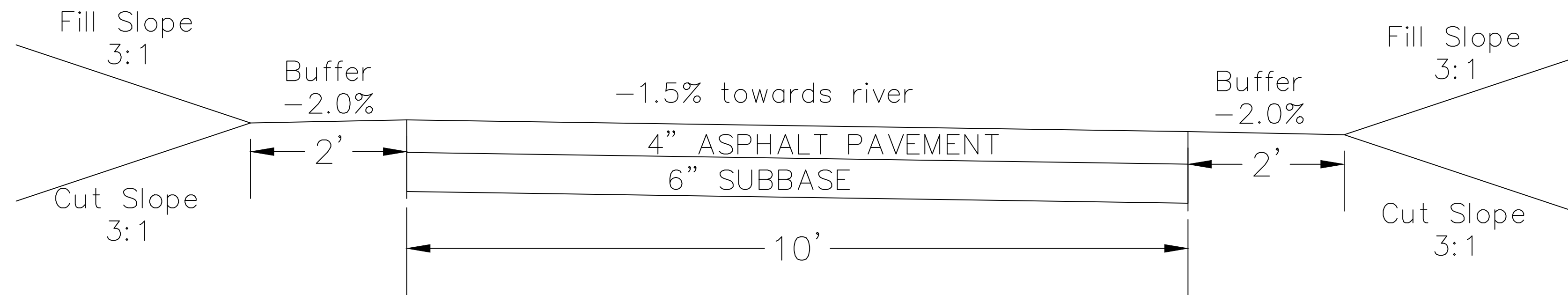




- UNPAVED:
1. THE UNPAVED CROSS SECTION IS DESIGNED TO ACCOMMODATE FUTURE PAVING.
 2. THE CUT AND FILL LINES FOLLOW THE SAME PATH AS THE PAVED CROSS SECTION, REQUIRING MINIMAL CUT AND FILL IF PAVEMENT IS DESIRED.
 3. THE BUFFER OF THE UNPAVED CROSS SECTION IS 10" RATHER THAN THE 2' FOR THE PAVED SECTION.
 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



PROJECT:	CEE:4E
DATE :	4/17/20
DRAWN BY:	
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@uiowa.edu

CEE logo BW - no text.tif

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Volga Trail

SHEET NAME

CROSS SECTION

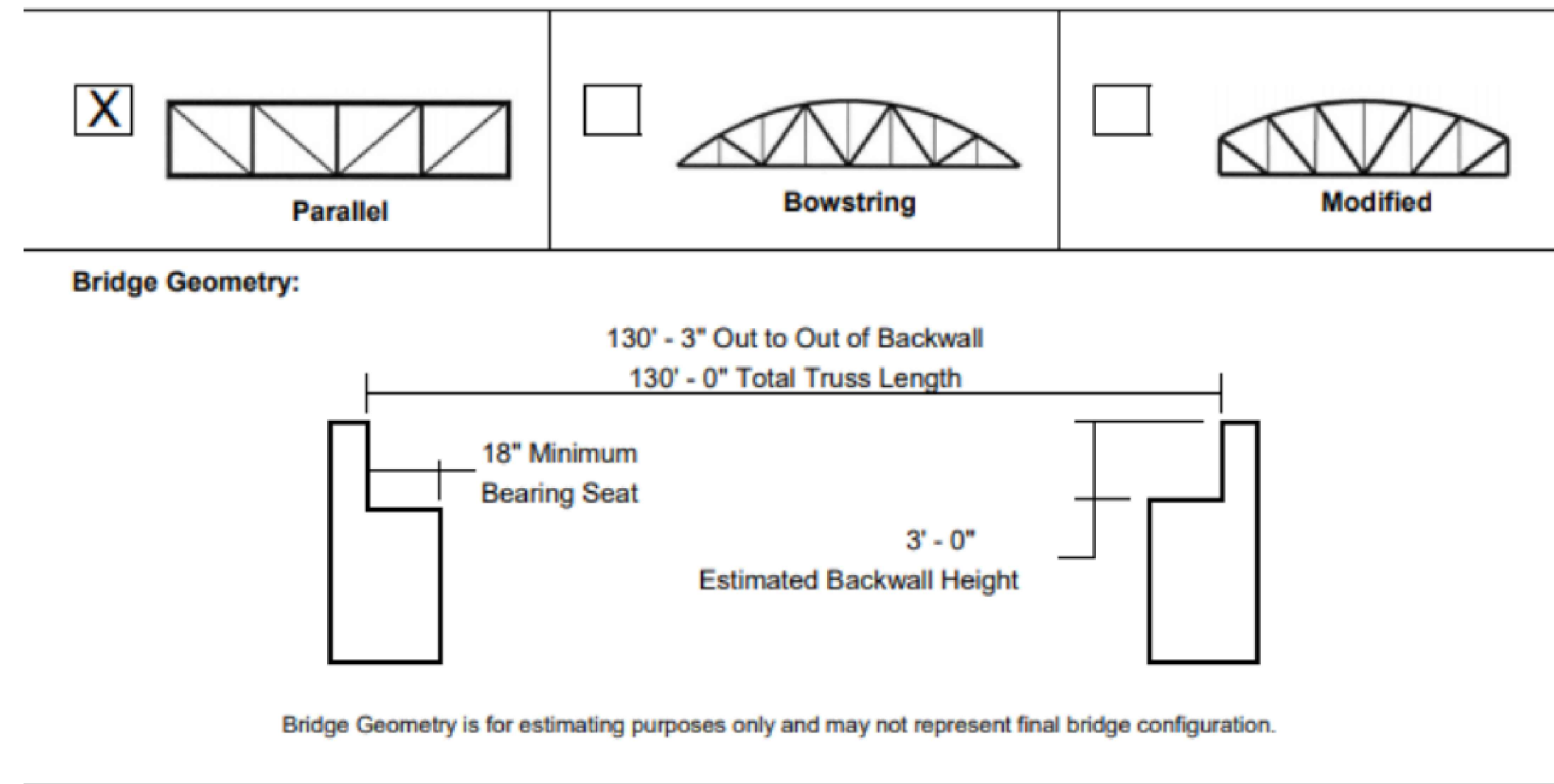
SHEET NO.

D-05

BRIDGES:

BRIDGE DATA					
BRIDGE	START STATION	END STATION	2-YR FLOOD FLOW (CFS)	100-YR FLOOD FLOW (CFS)	PROPOSED
1	58+73	59+90	579	4480	130' PRE-FAB BRIDGE
2	195+74	196+24	185	1640	50' PRE-FAB BRIDGE

BRIDGE 1:

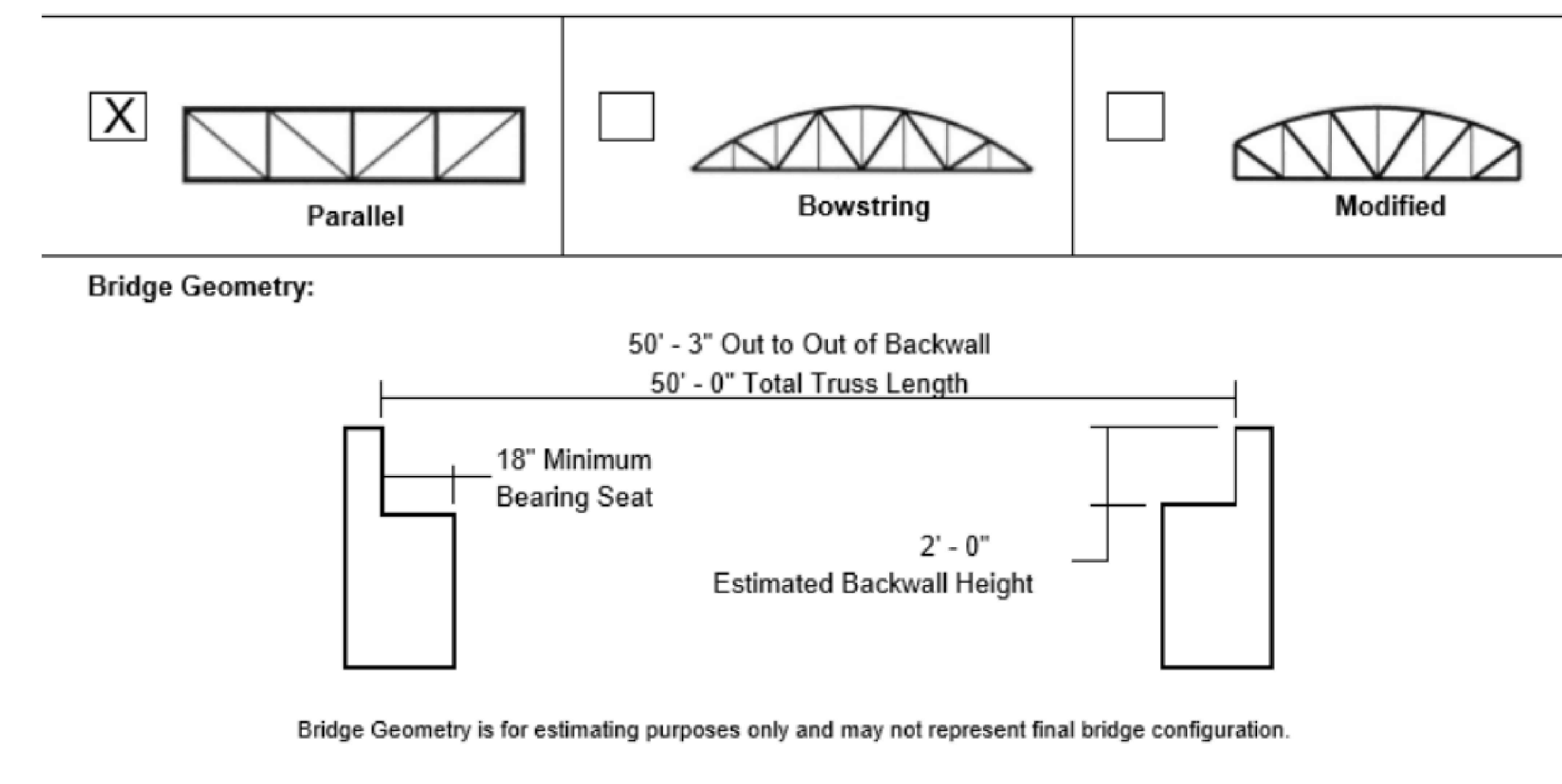


Bridge Span: 130' - 0"
Bridge Width: 10' - 0"
Truss Type: Parallel
Diagonal: Pratt
Decking Type: Treated Timber

Live Load: 90#
Vehicle Load: AASHTO - H5
Finish: Weathering
Railing Config: Horizontal - 54" w/ Ipe Rubrail

Field Splices: 1
Number of Pieces: 2
Lifting Weight: 64,350 lbs
Opening: 4" Max

BRIDGE 2:

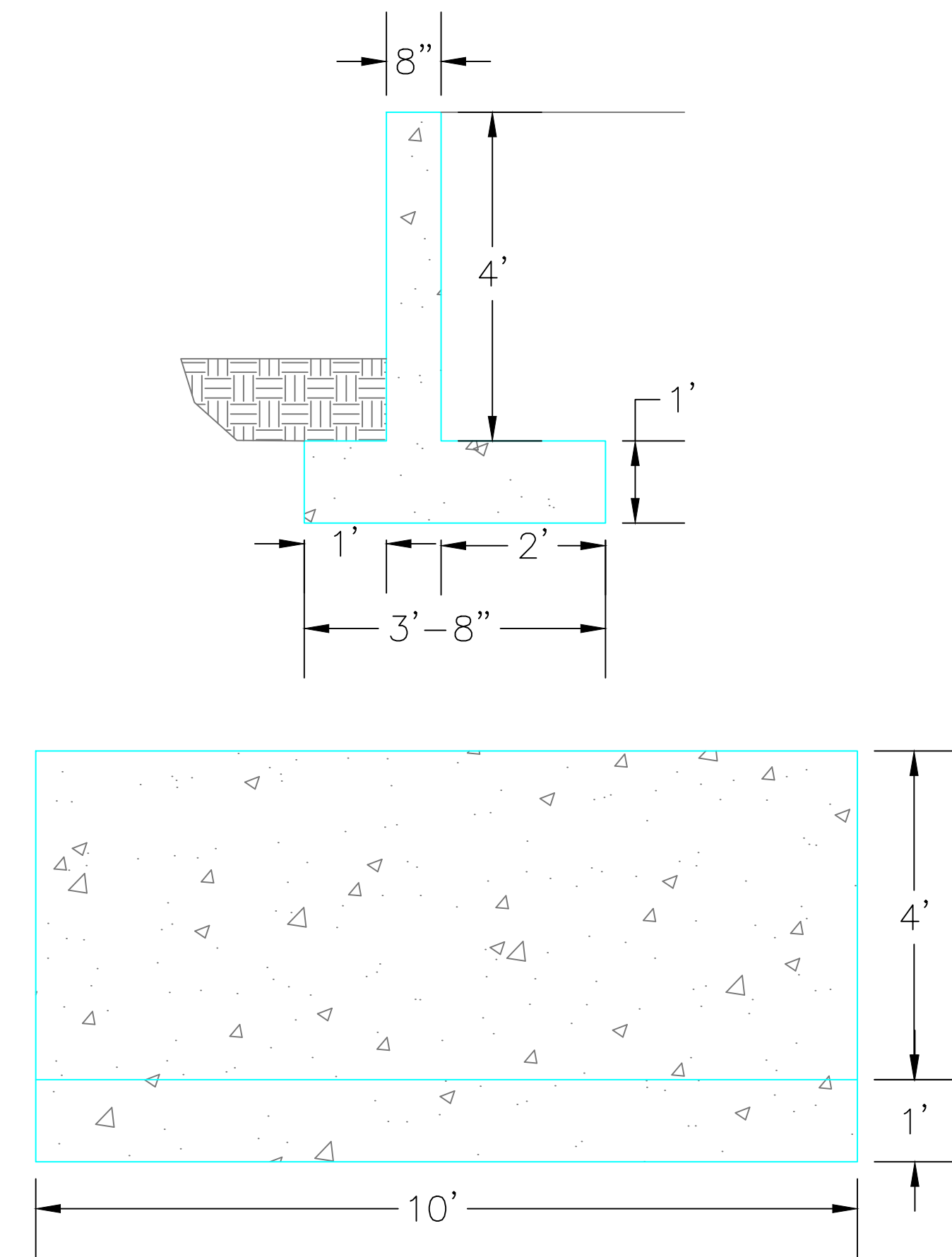


Bridge Span: 50' - 0"
Bridge Width: 10' - 0"
Truss Type: Parallel
Diagonal: Pratt
Decking Type: Treated Timber

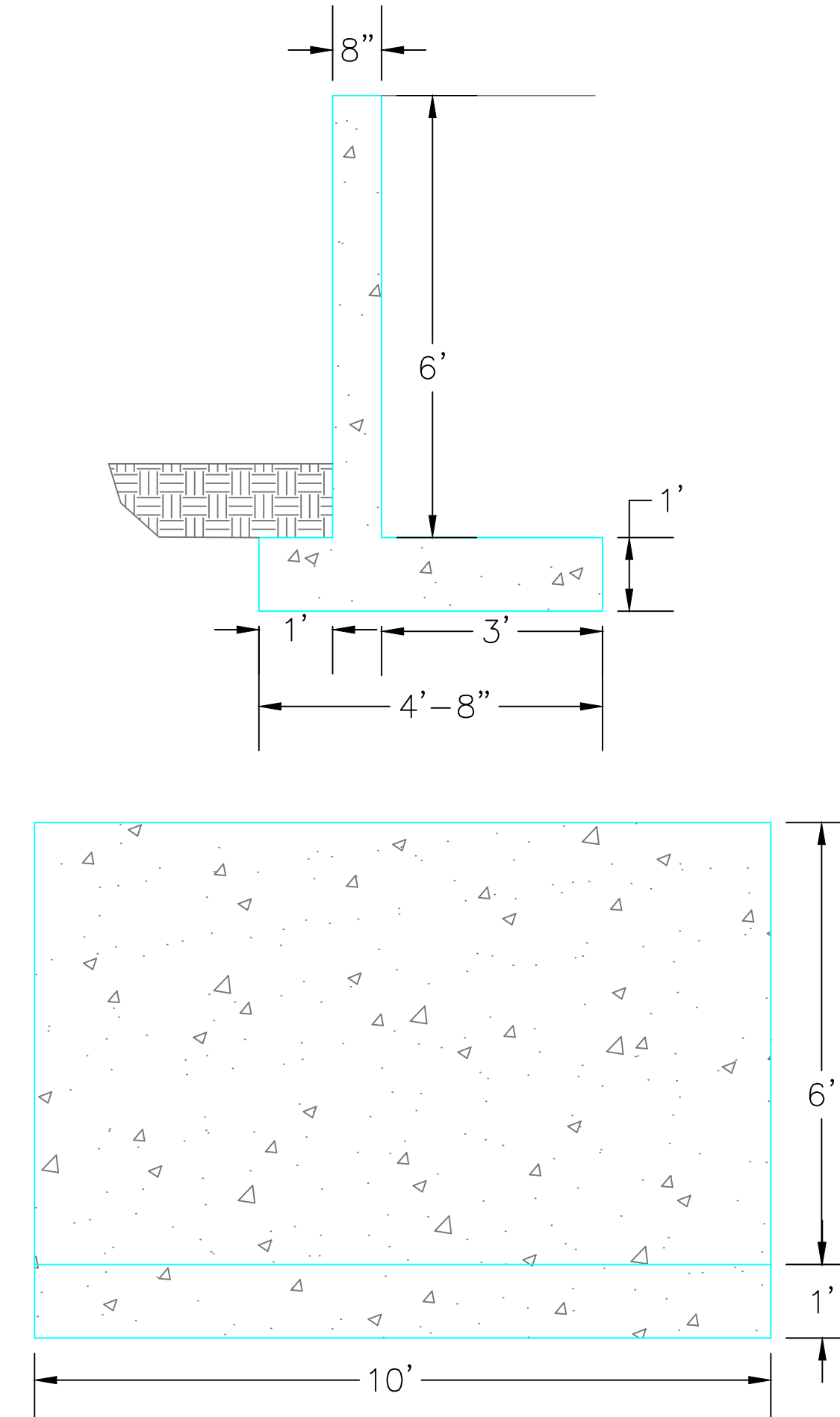
Live Load: 90#
Vehicle Load: AASHTO - H5
Finish: Weathering
Railing Config: Horizontal - 54" w/ Ipe Rubrail

Field Splices: 0
Number of Pieces: 1
Lifting Weight: 17,200 lbs
Opening: 4" Max

ABUTMENT (BRIDGE 1):



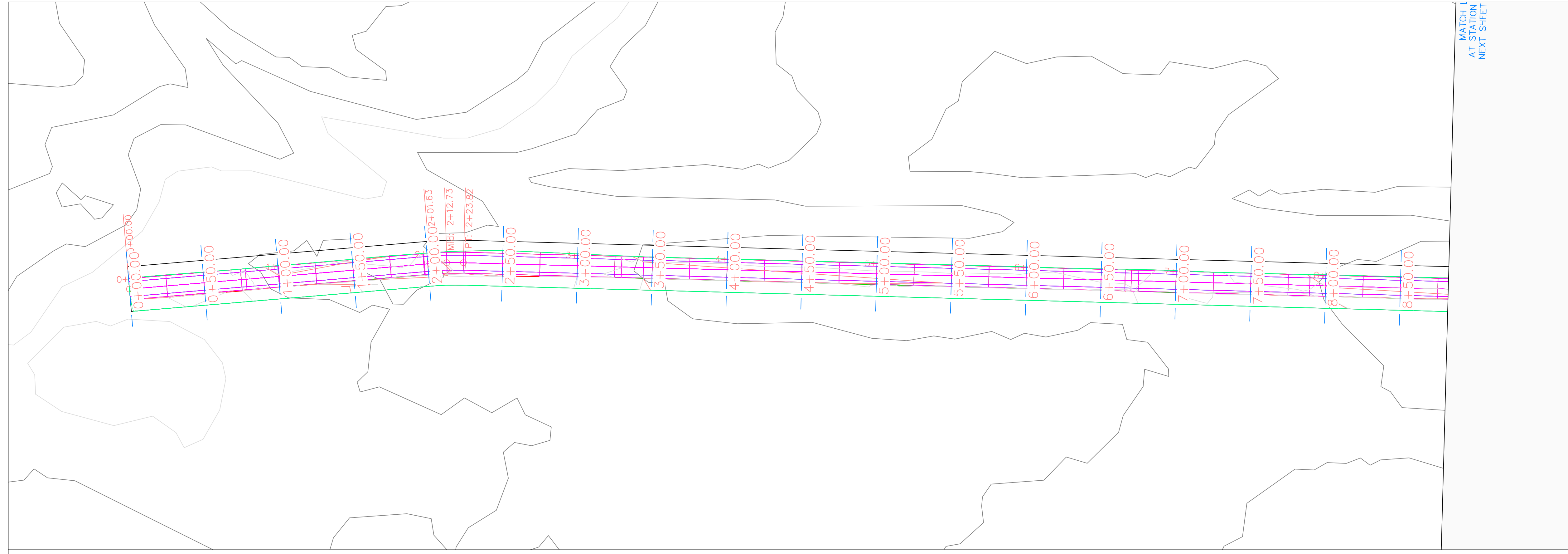
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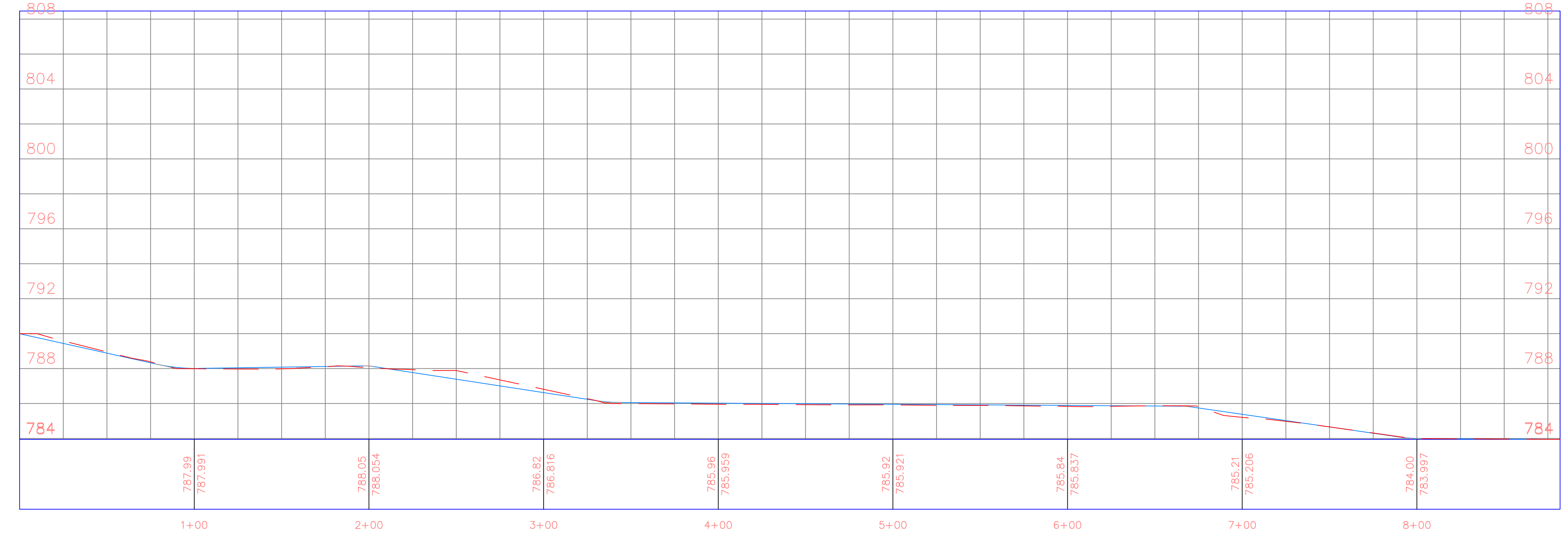
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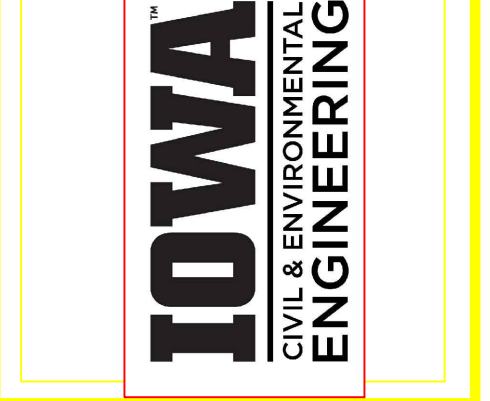


Volga Trail PROFILE



PROJECT: CEE: 4850
 DATE : 4/17/2020
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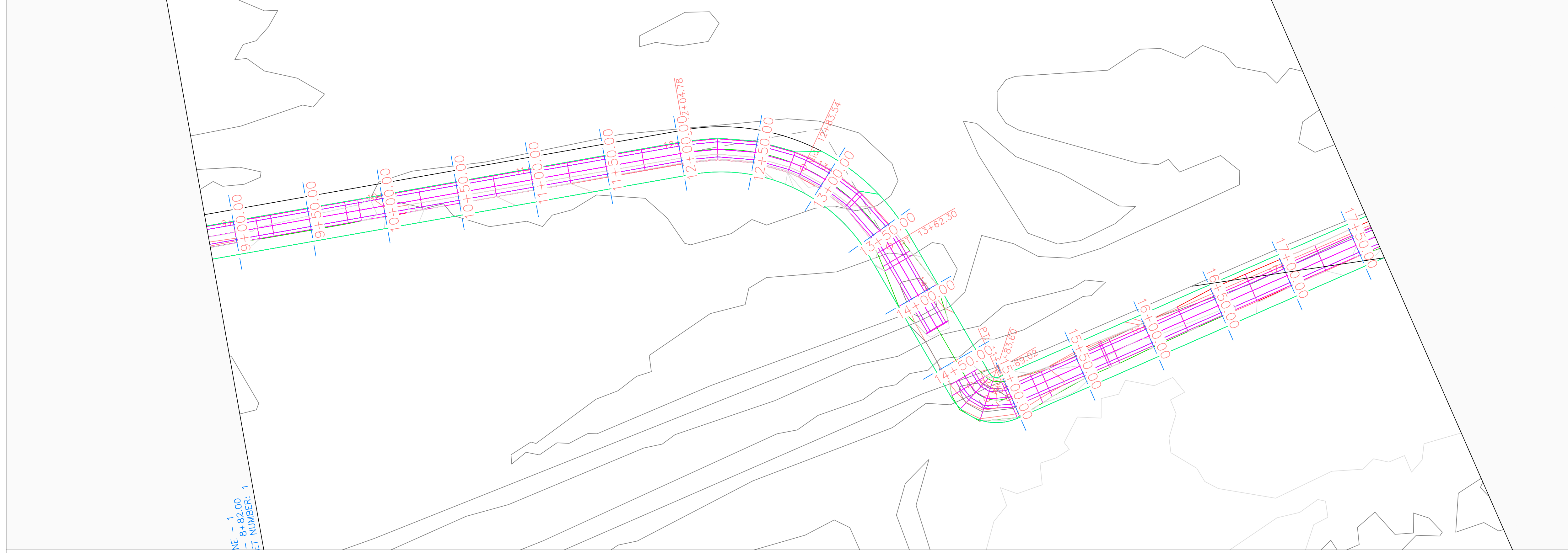
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 SHEET NAME 2

SHEET NO.
XX

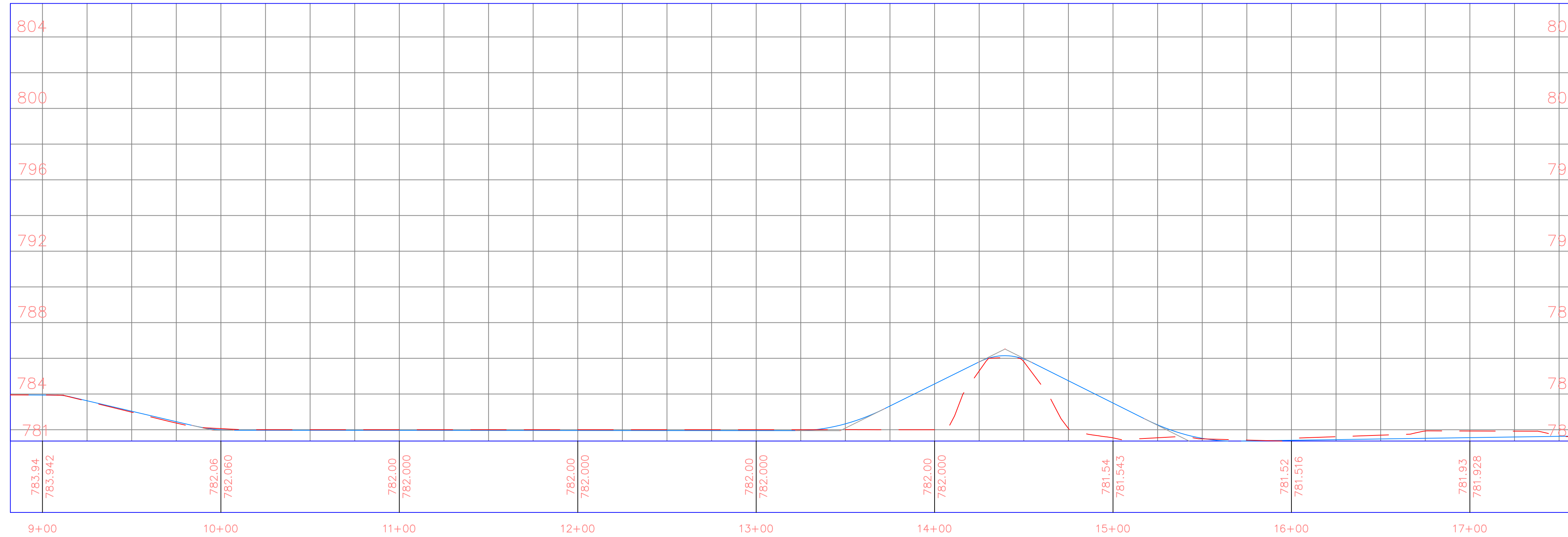
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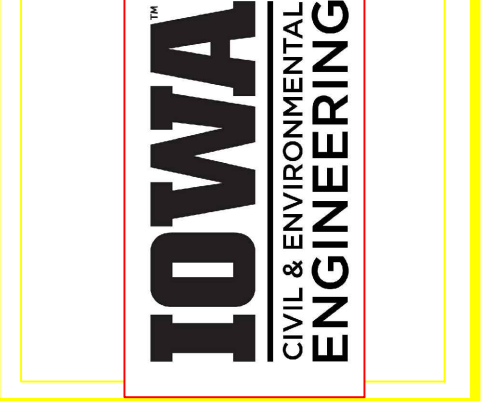


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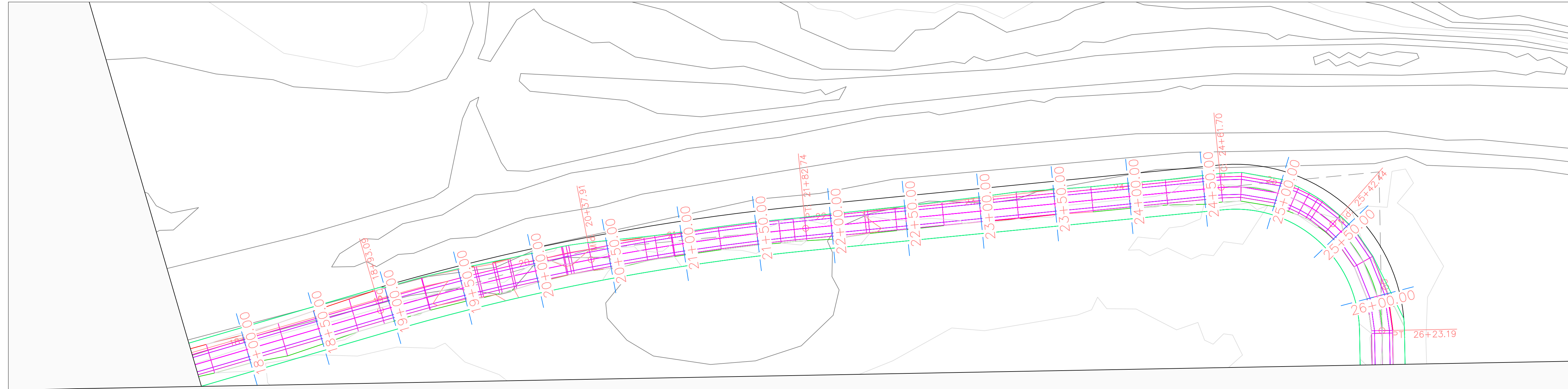
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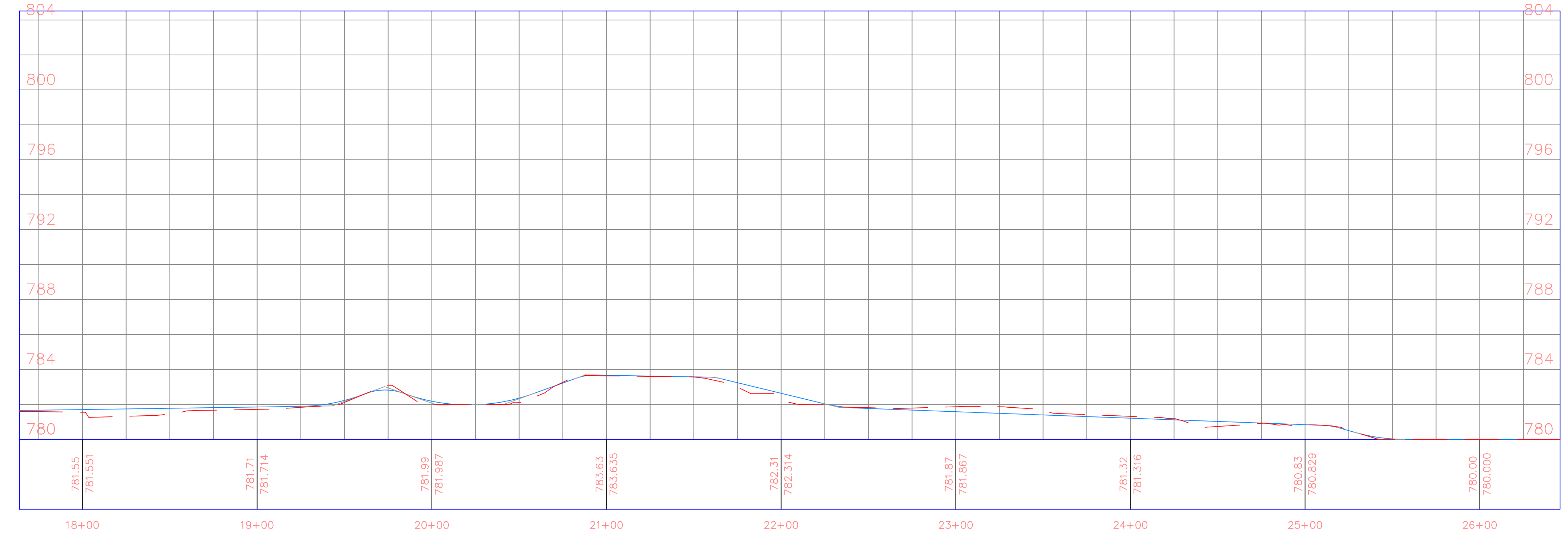
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 SHEET NAME 2

SHEET NO.
XX

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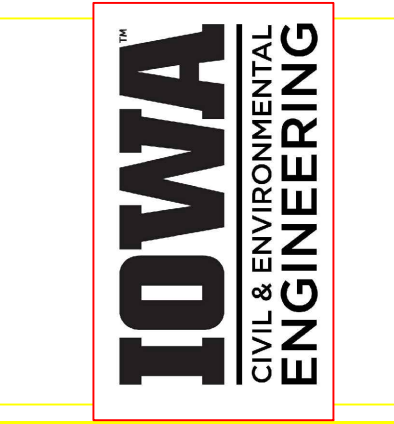


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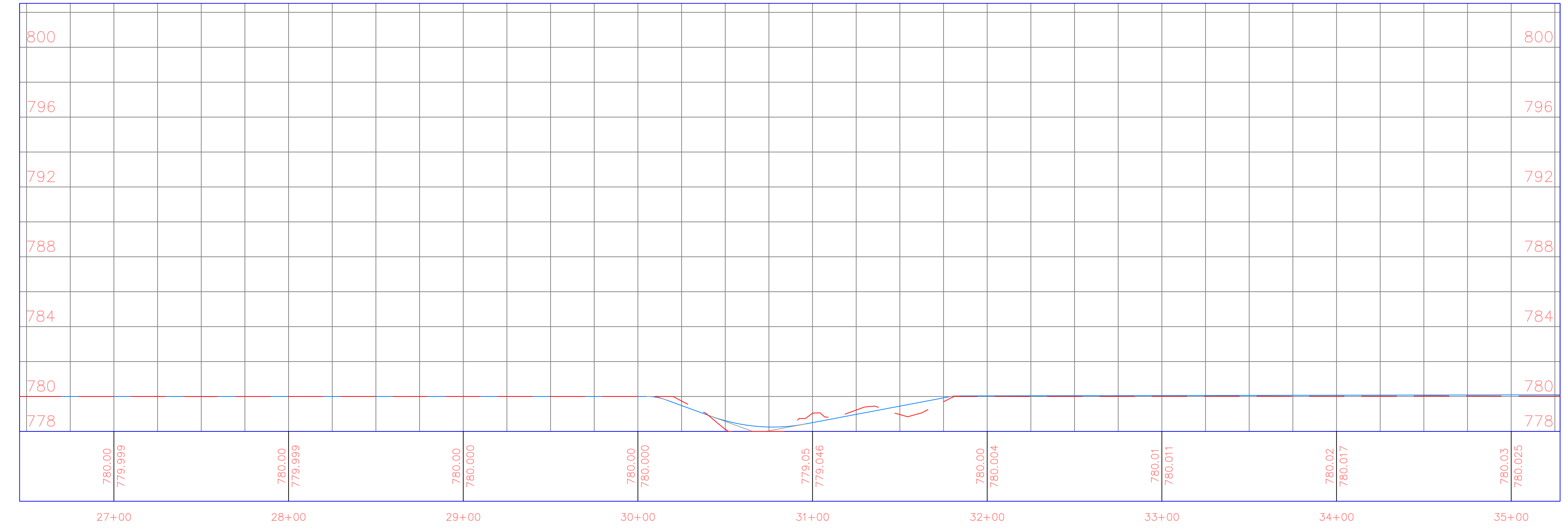
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SHEET NAME
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 SHEET NAME 2

SHEET NO.
XX

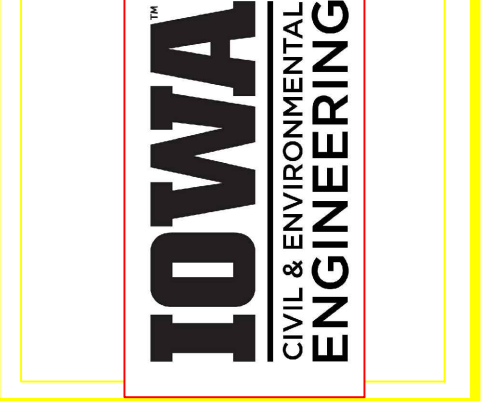


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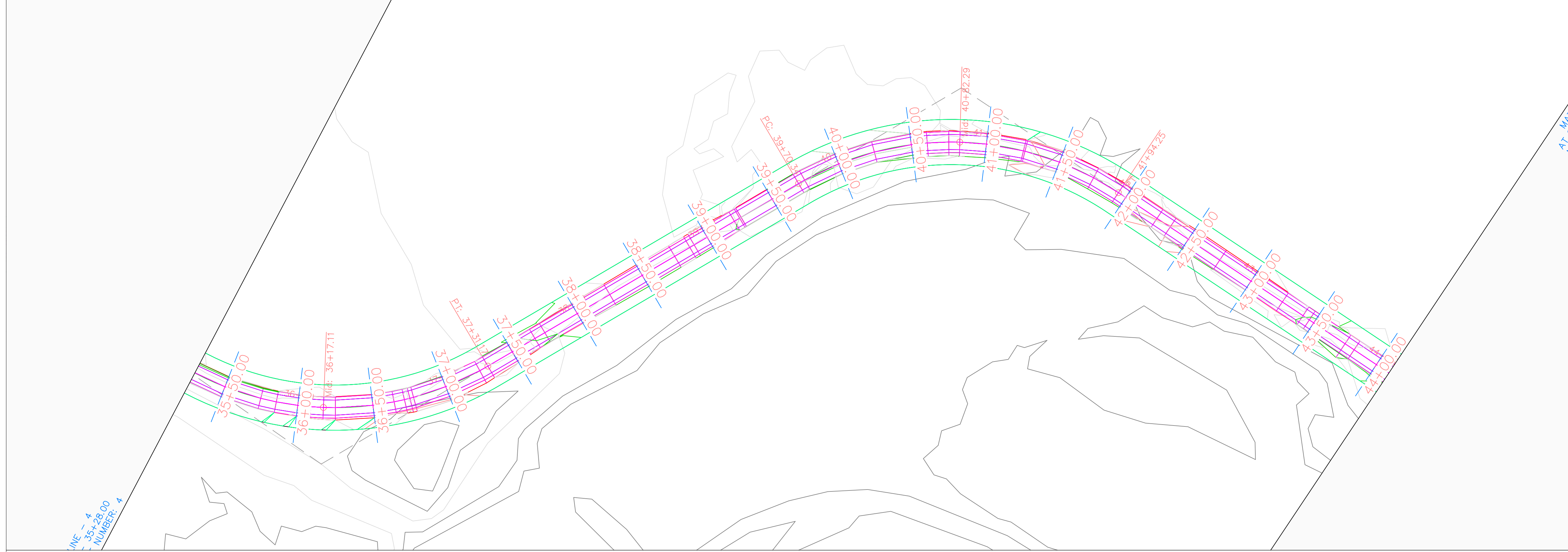


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 SHEET NAME 2

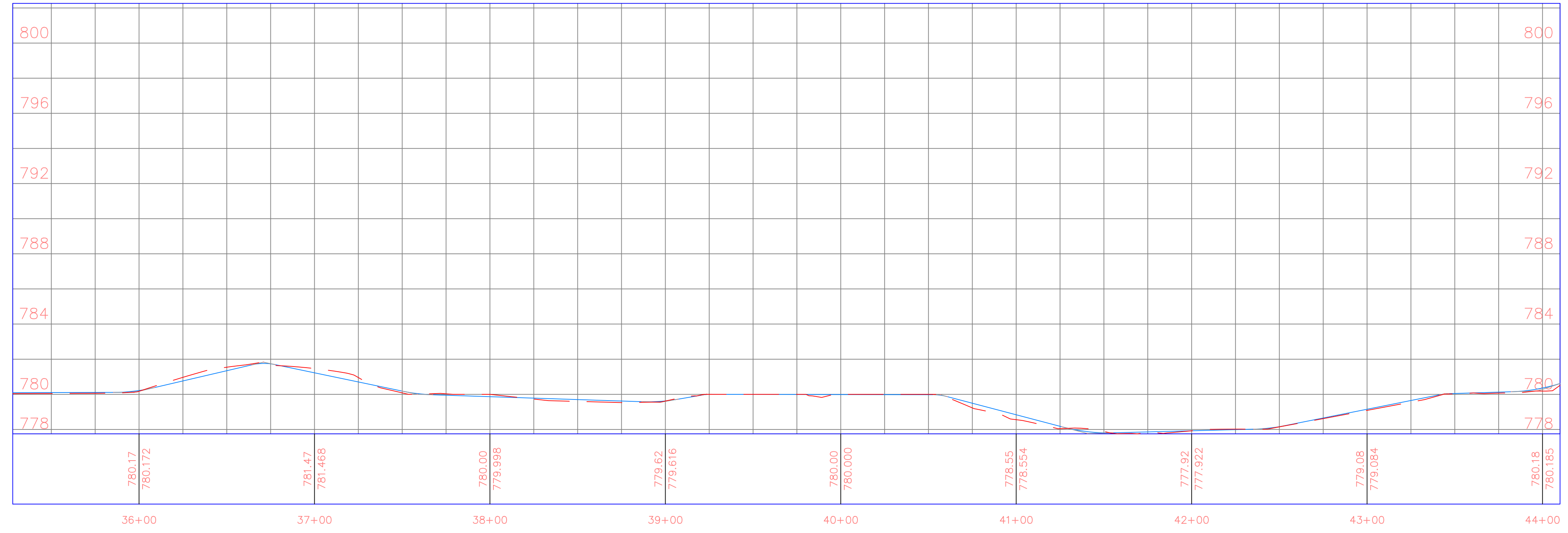
SHEET NO.
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LINE - 4
 35+28.00
 NUMBER: 4

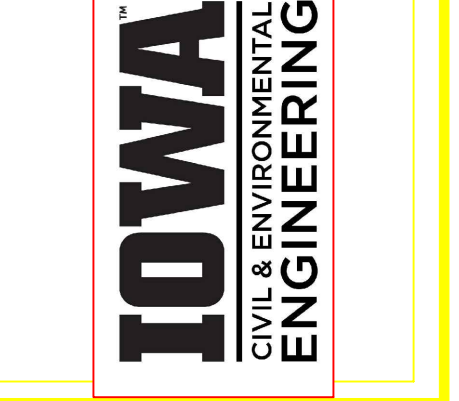
A.T. M.T. CO.
 NE. ST. CO.

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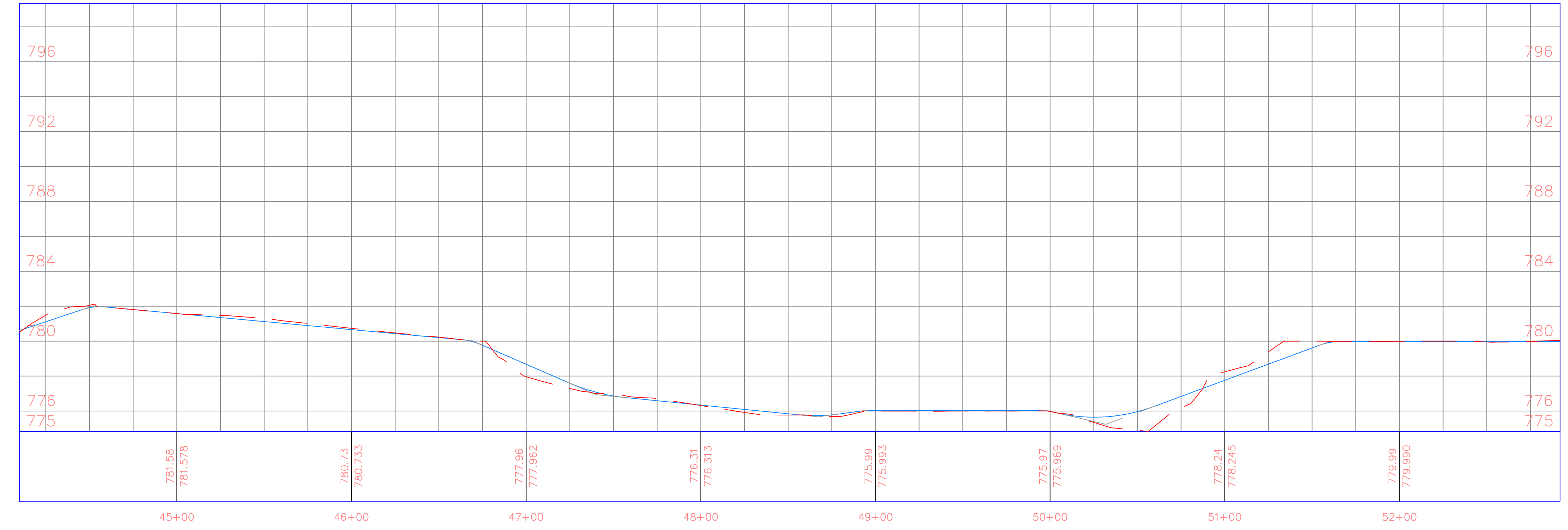
Volga Trail

SHEET NAME
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 SHEET NAME 2

SHEET NO.
XX

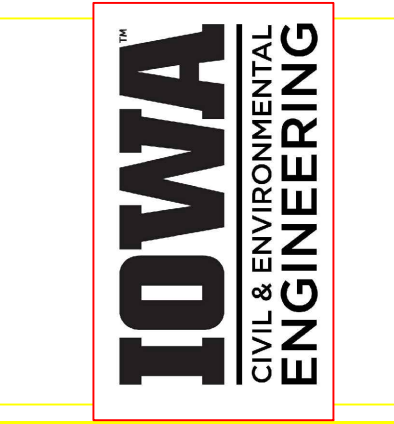


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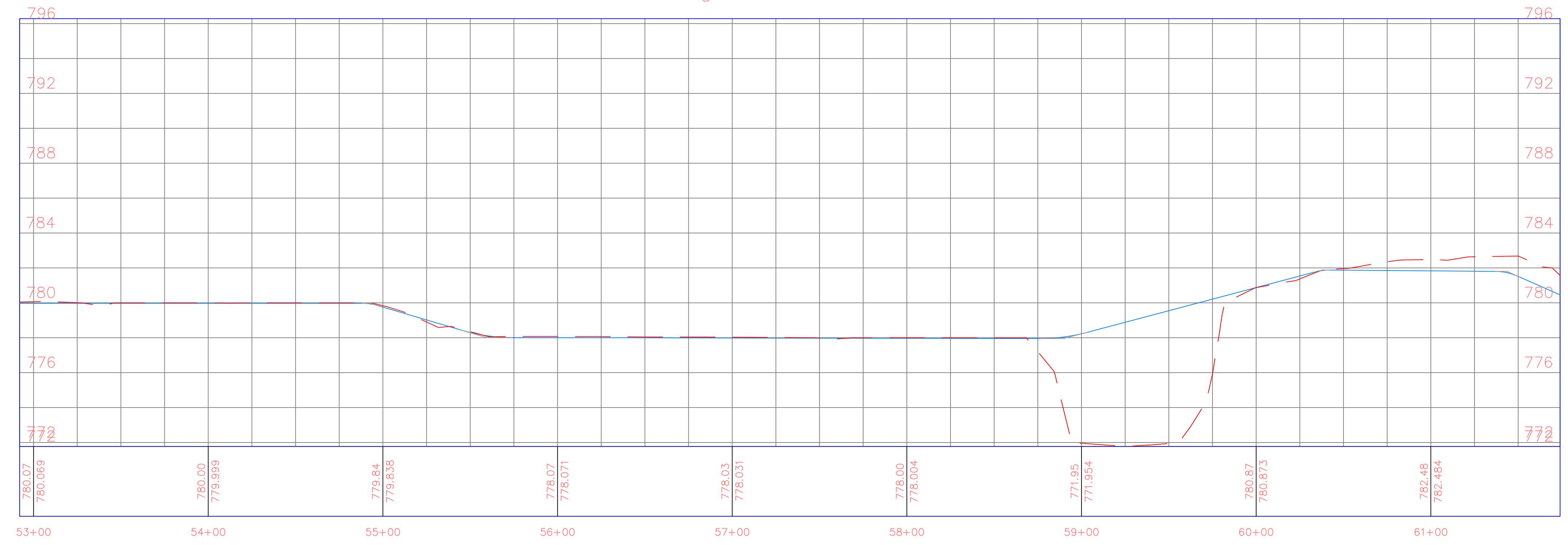
Volga Trail

SHEET NAME
 SHEET NAME 1
 SHEET NAME 2

SHEET NO.
XX

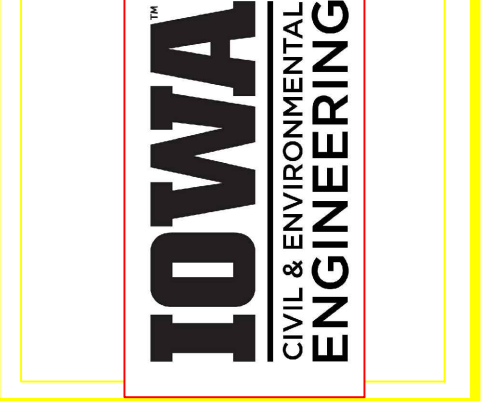


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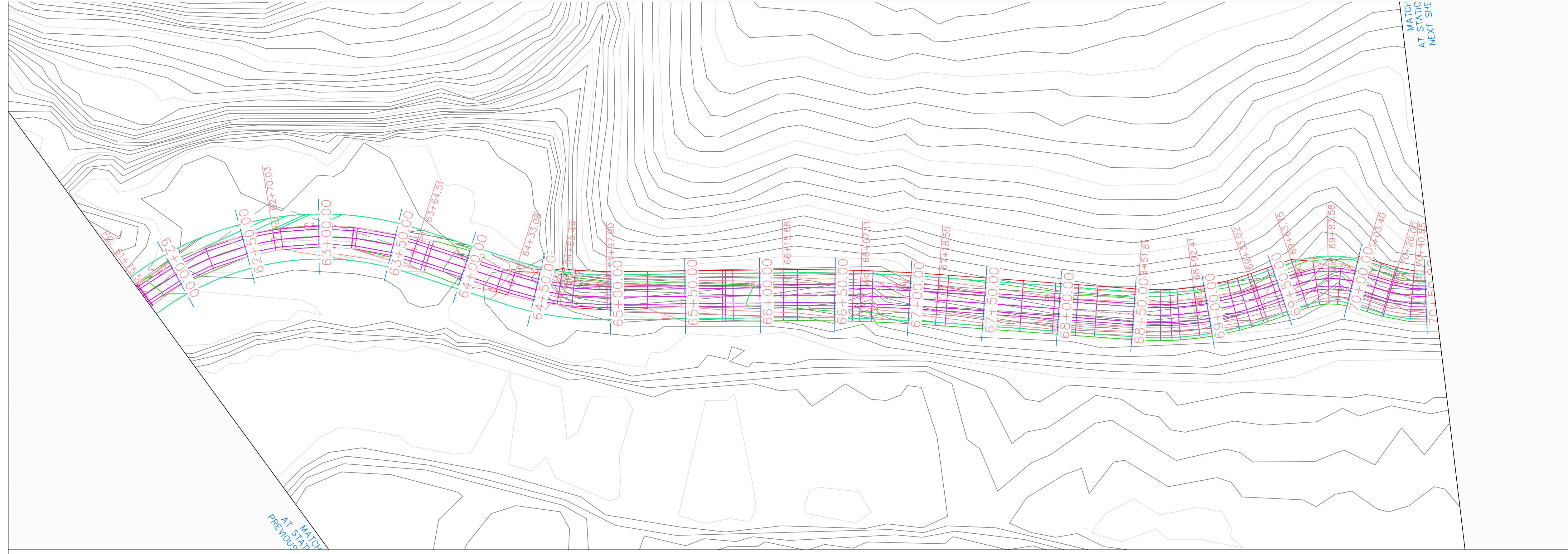
Volga Trail

SHEET NAME
 SHEET NAME 1
 SHEET NAME 2

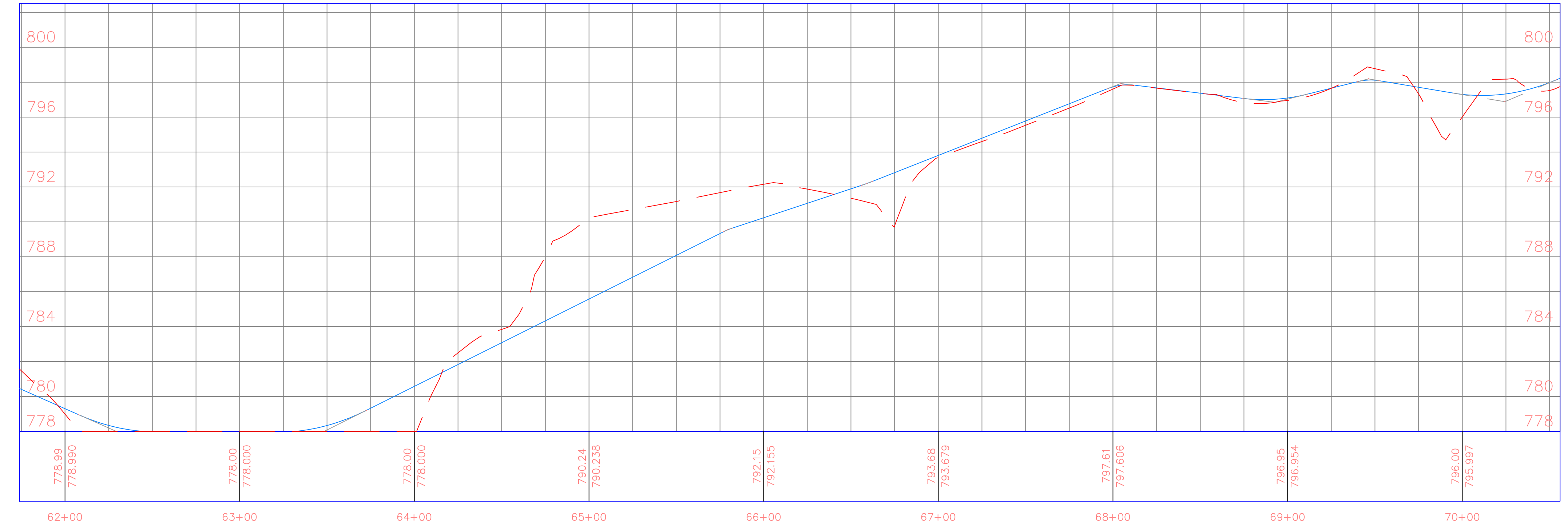
SHEET NO.
XX

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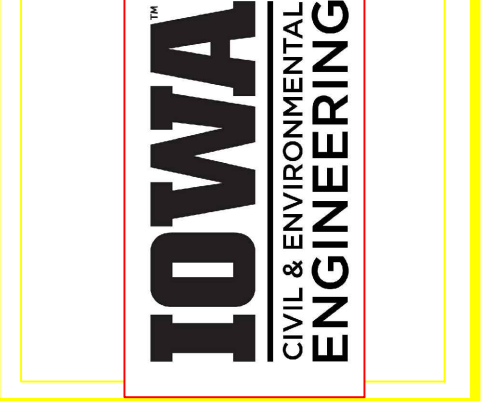


Volga Trail PROFILE



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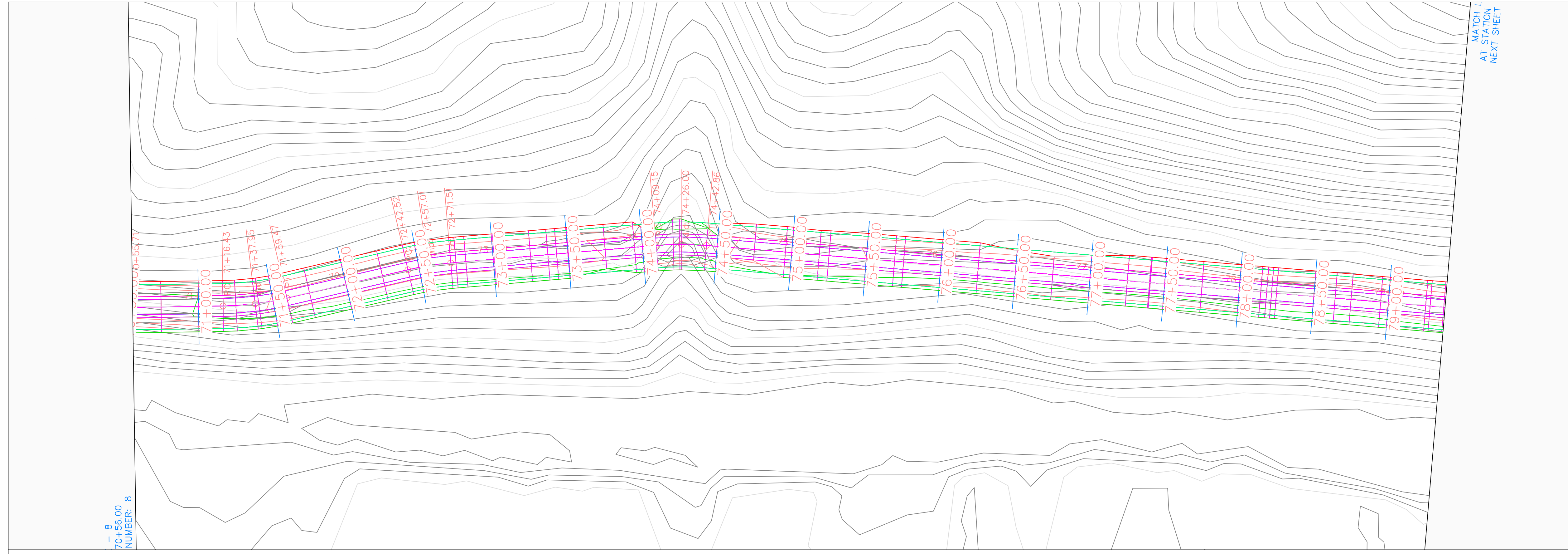
Volga Trail

SHEET NAME
 SHEET NAME 1
 SHEET NAME 2

SHEET NO.
XX

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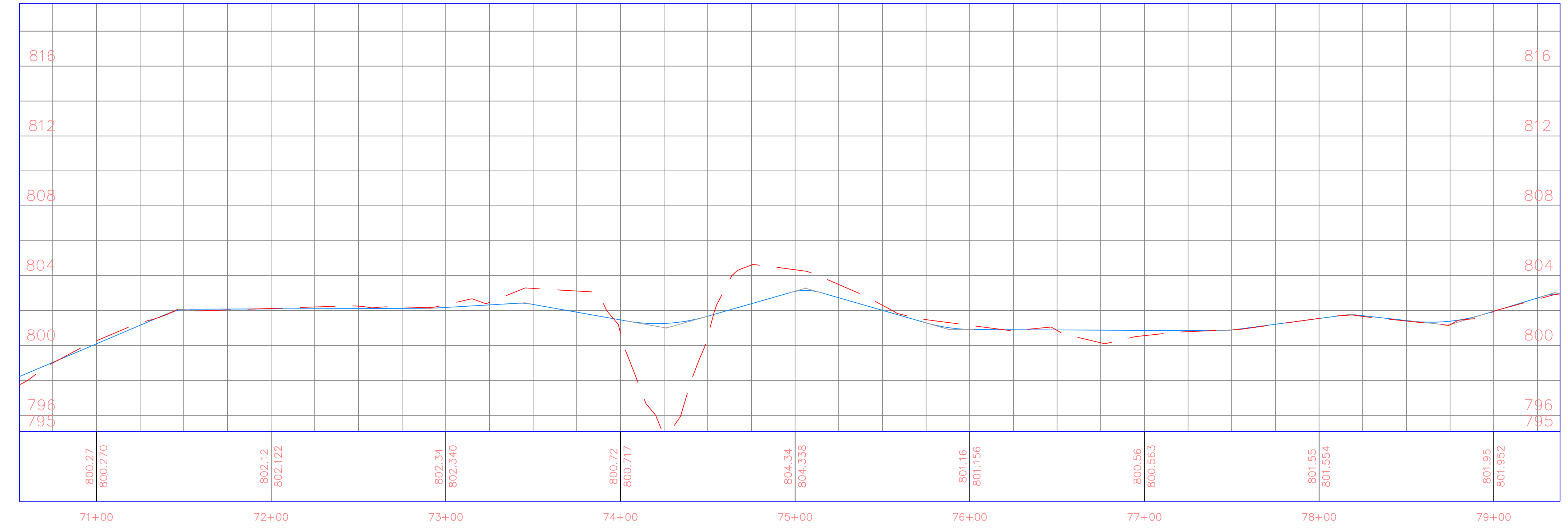
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- 8
70+56.00
NUMBER: 8

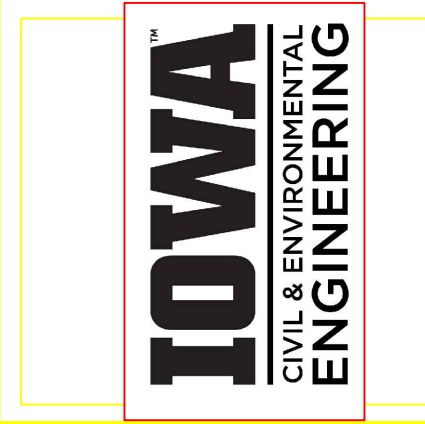
MATCH LINE
AT STATION
NEXT SHEET

Volga Trail PROFILE



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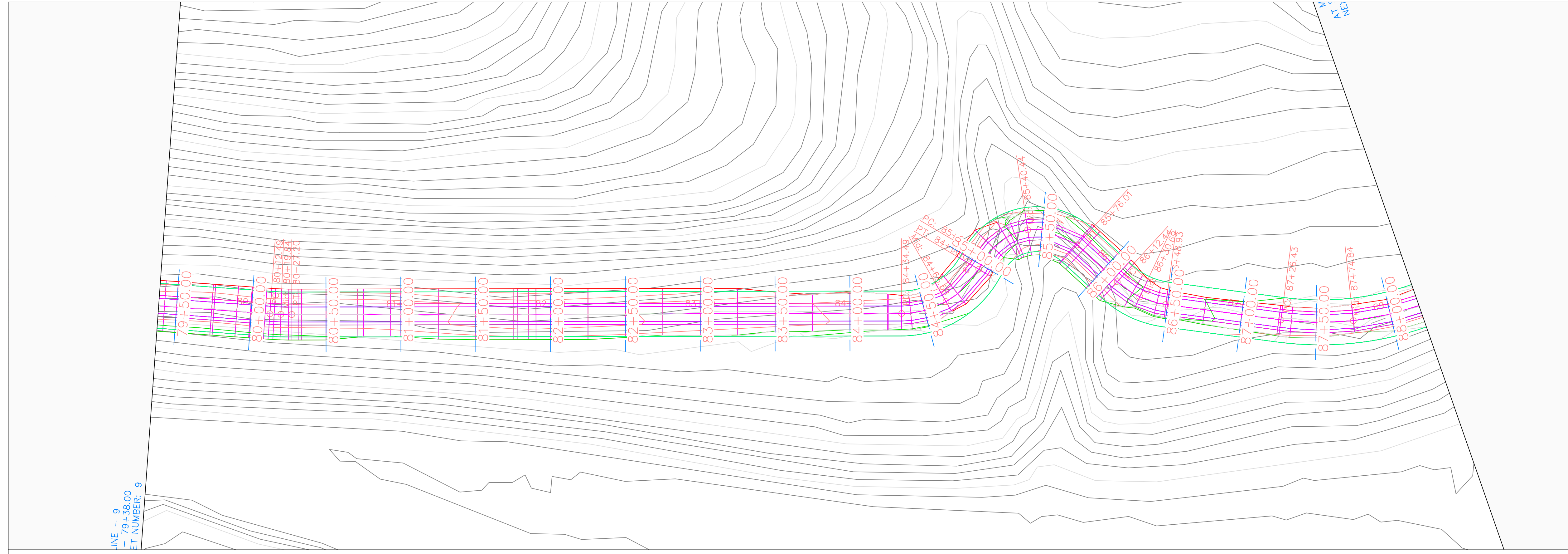


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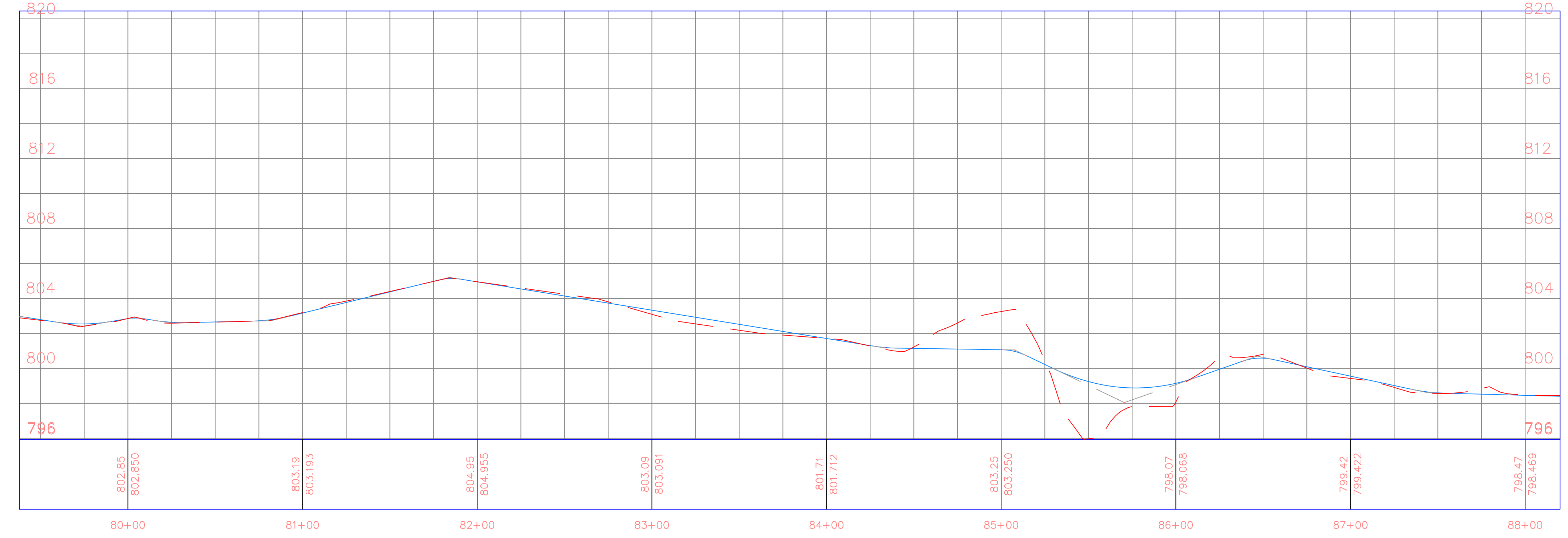
Volga Trail

SHEET NAME
 SHEET NAME 1
 SHEET NAME 2

SHEET NO.
XX

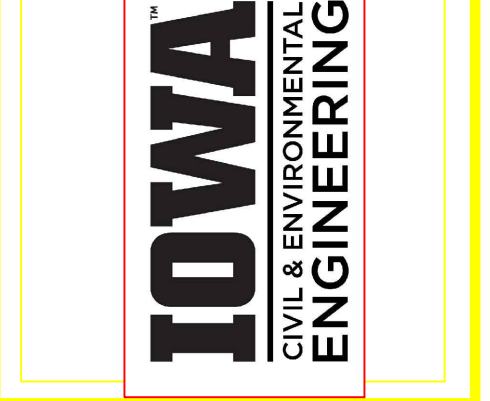


Volga Trail PROFILE



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DATE :	4/17/2020
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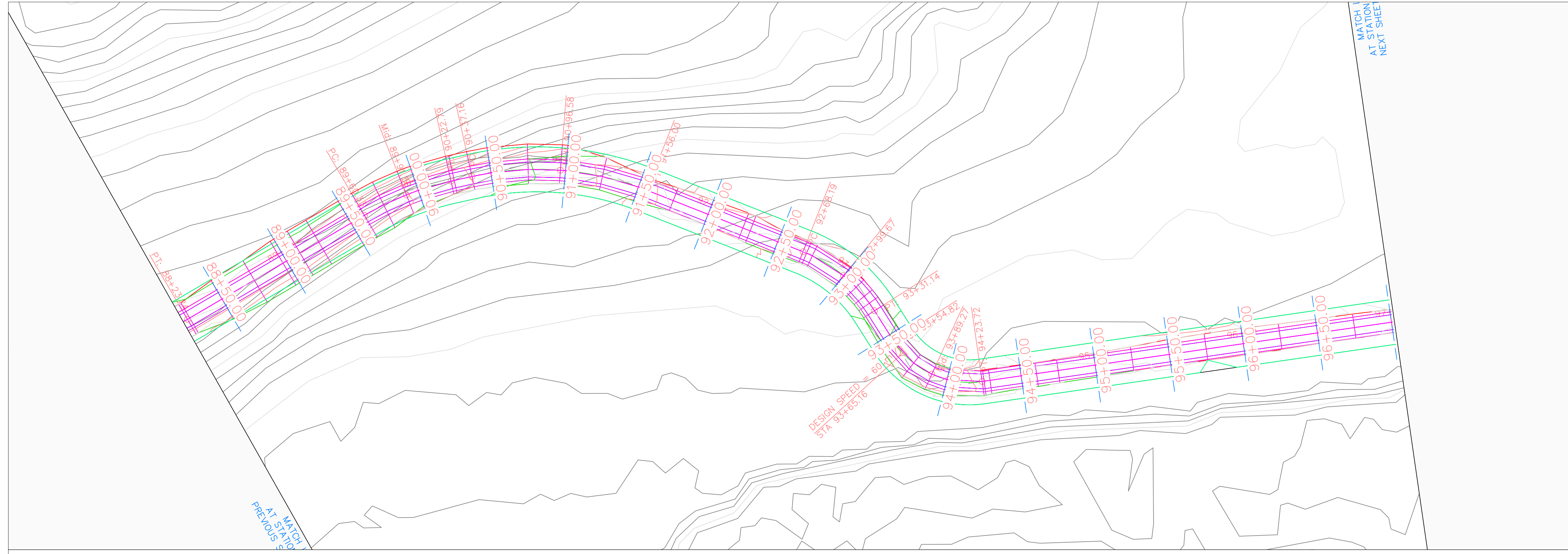
SHEET NAME
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 SHEET NAME 2

SHEET NO.
XX

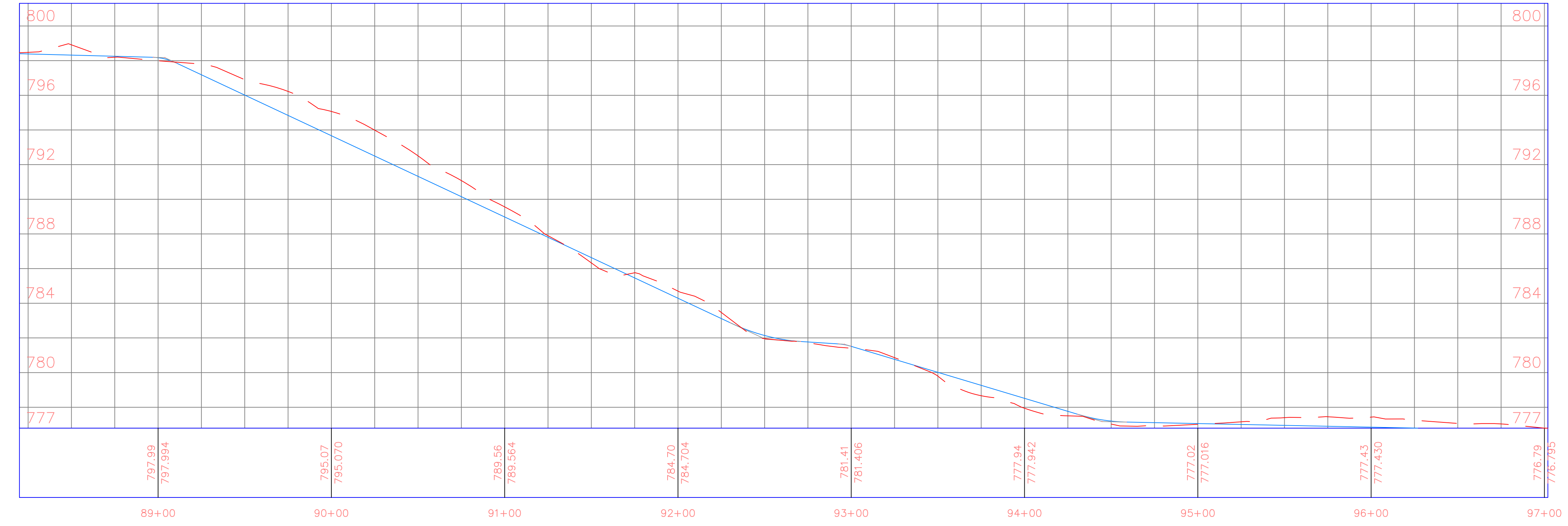
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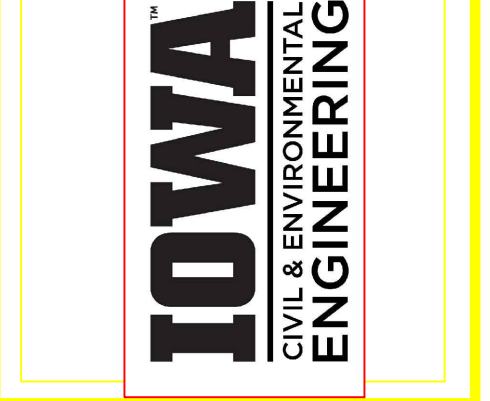


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Volga Trail

SHEET NAME
 SHEET NAME 1
 SHEET NAME 2

SHEET NO.
XX

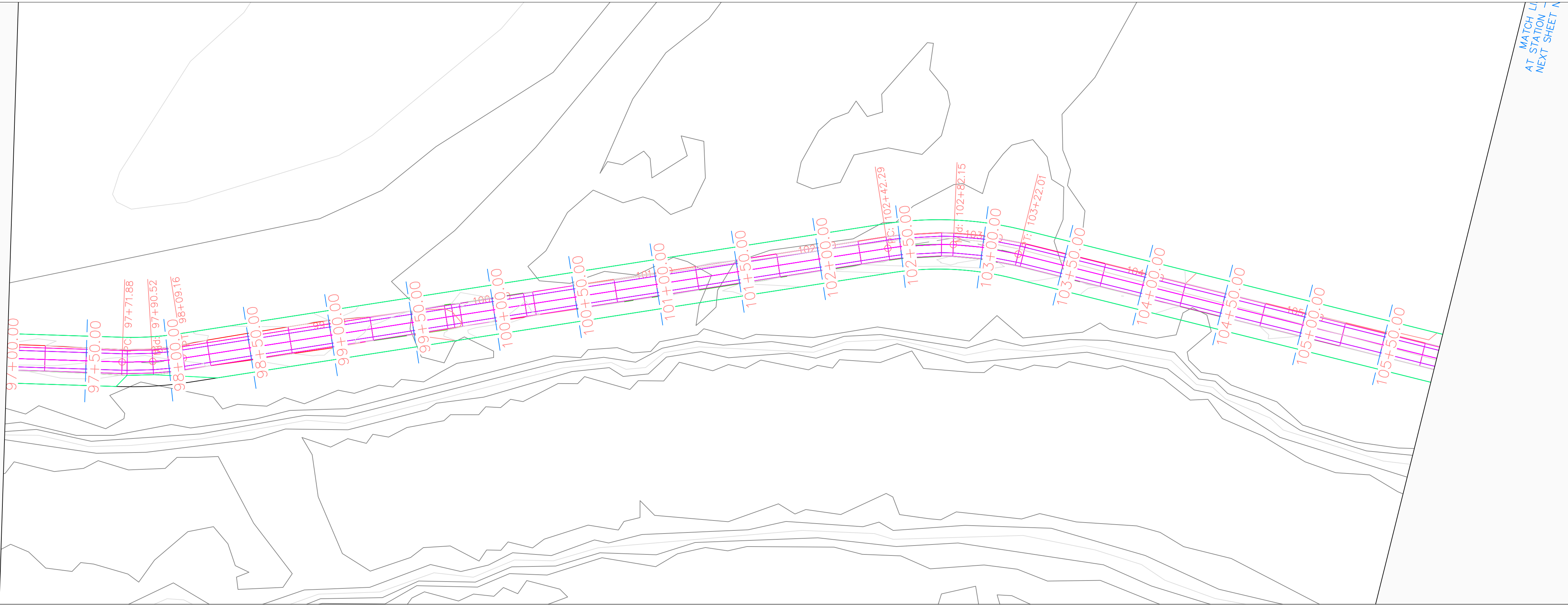
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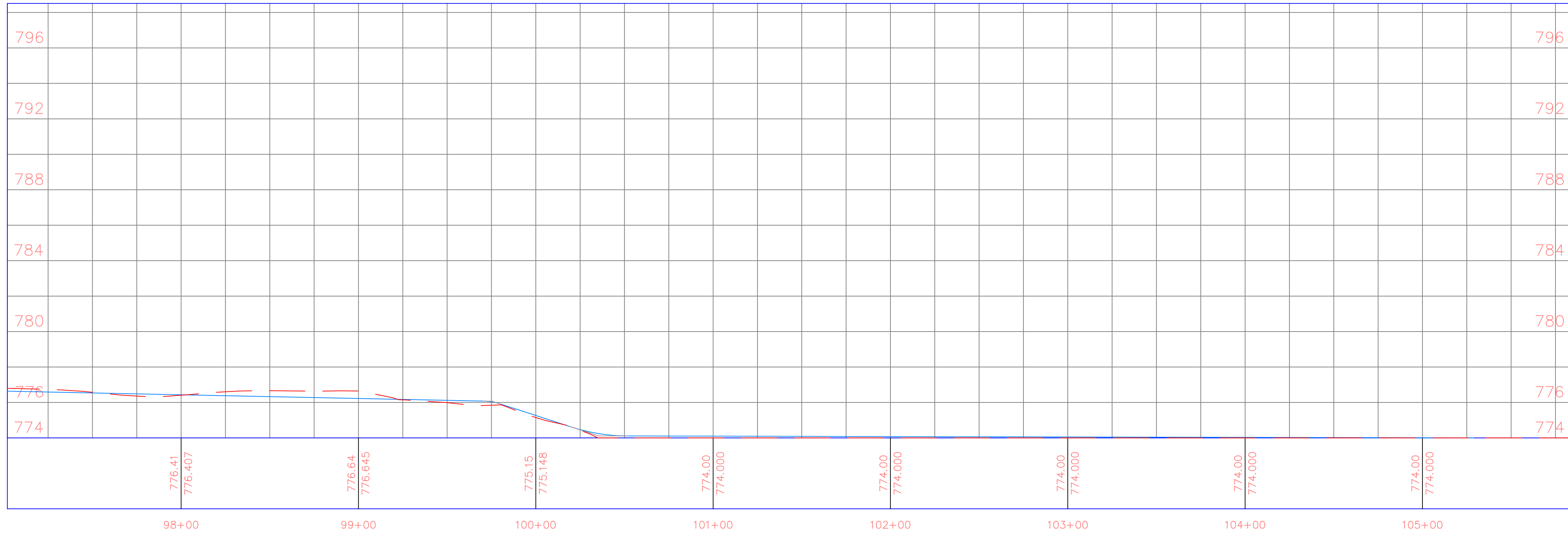
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11
97+02.00
NUMBER: 11



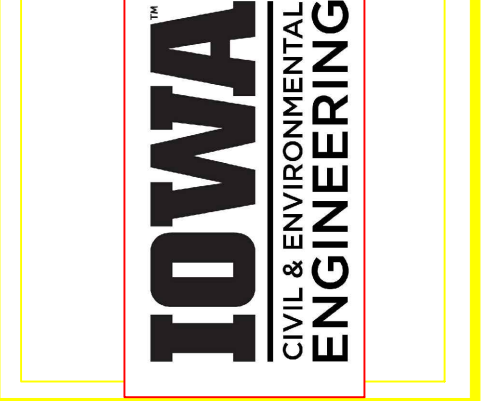
Volga Trail PROFILE



MATCH LINE
AT STATION 105+50.00
NEXT SHEET A

PROJECT: CEE: 4850
 DATE : 4/17/2020
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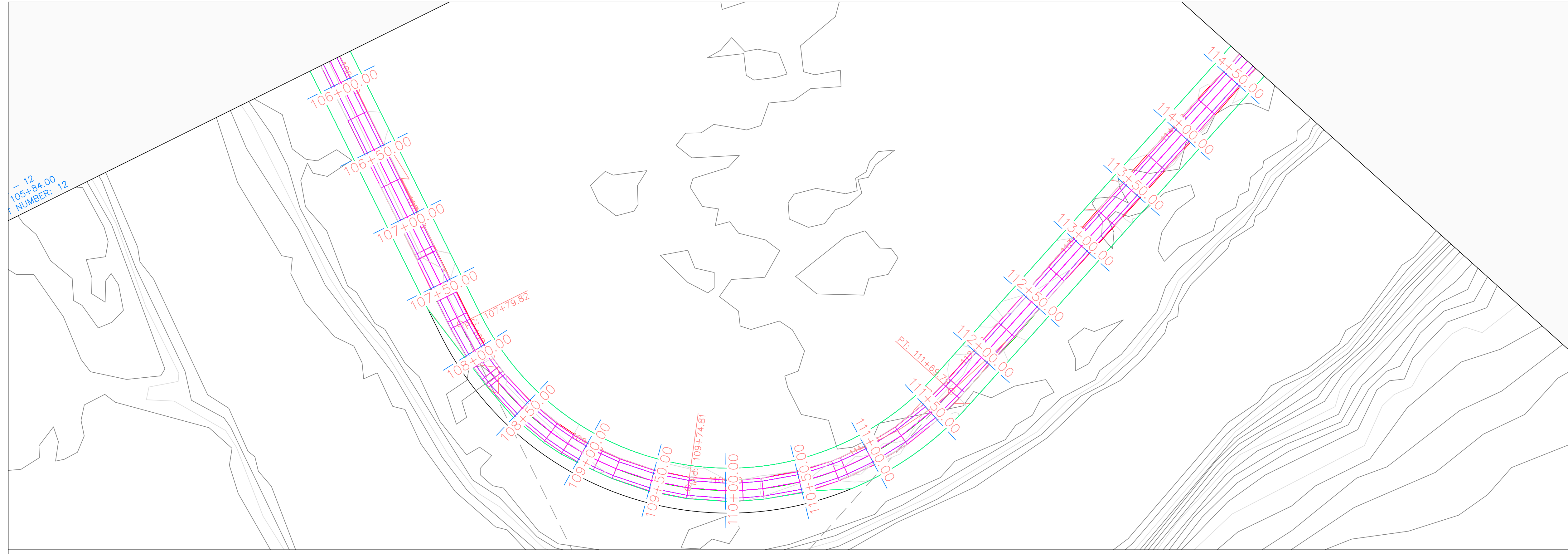
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Volga Trail

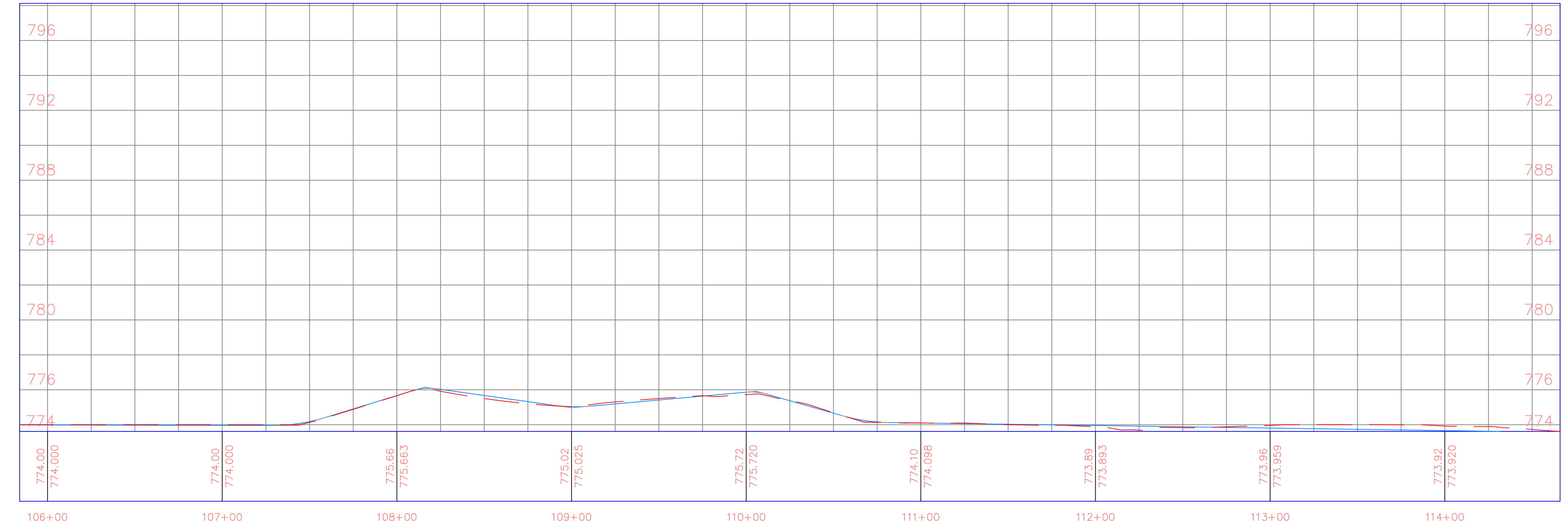
SHEET NAME
SHEET NAME 1
SHEET NAME 2

SHEET NO.
XX

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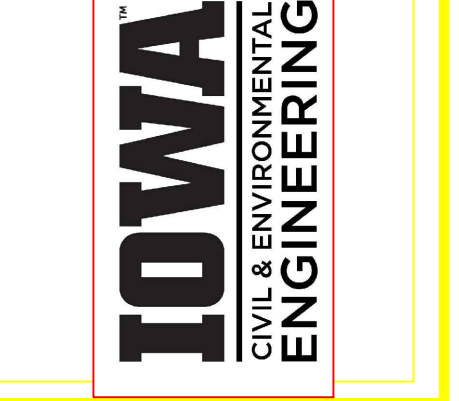


Volga Trail PROFILE



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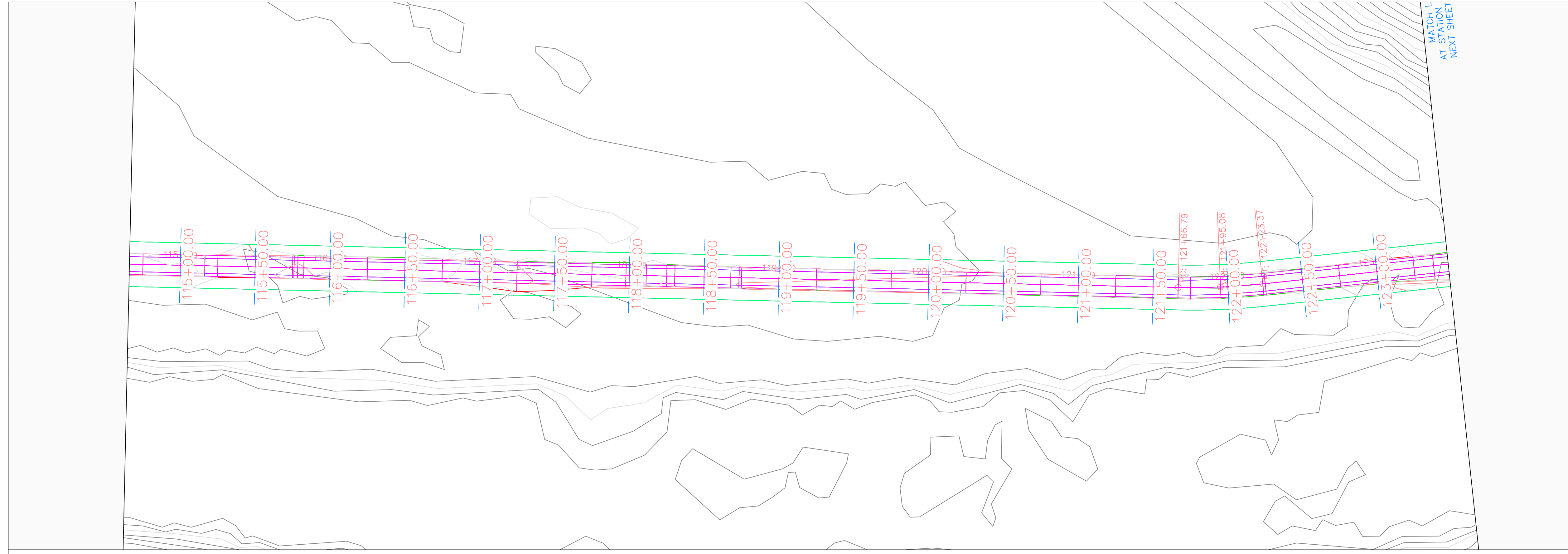


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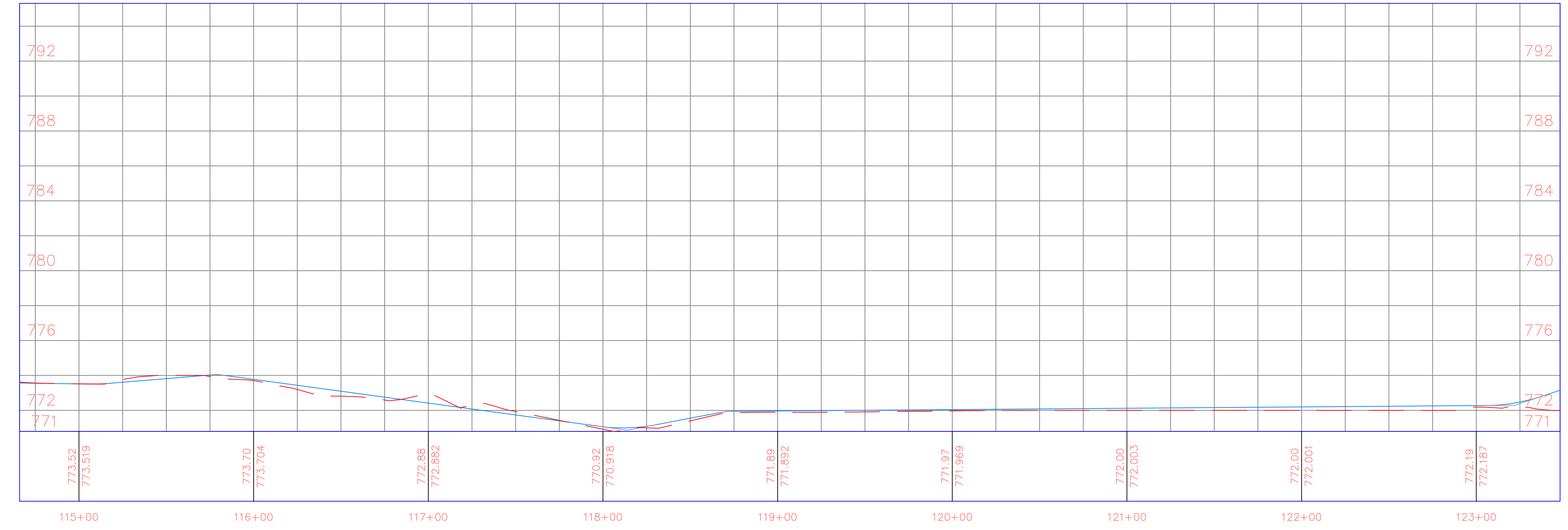
Volga Trail

SHEET NAME
 SHEET NAME 1
 SHEET NAME 2

SHEET NO.
XX



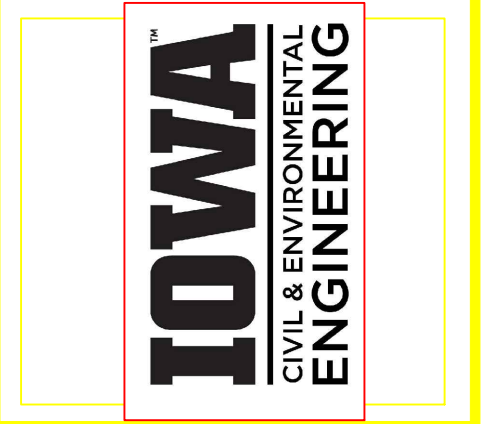
Volga Trail PROFILE



MATCH L
AT STATION
NEXT SHEET

PROJECT:	CEE: 4850
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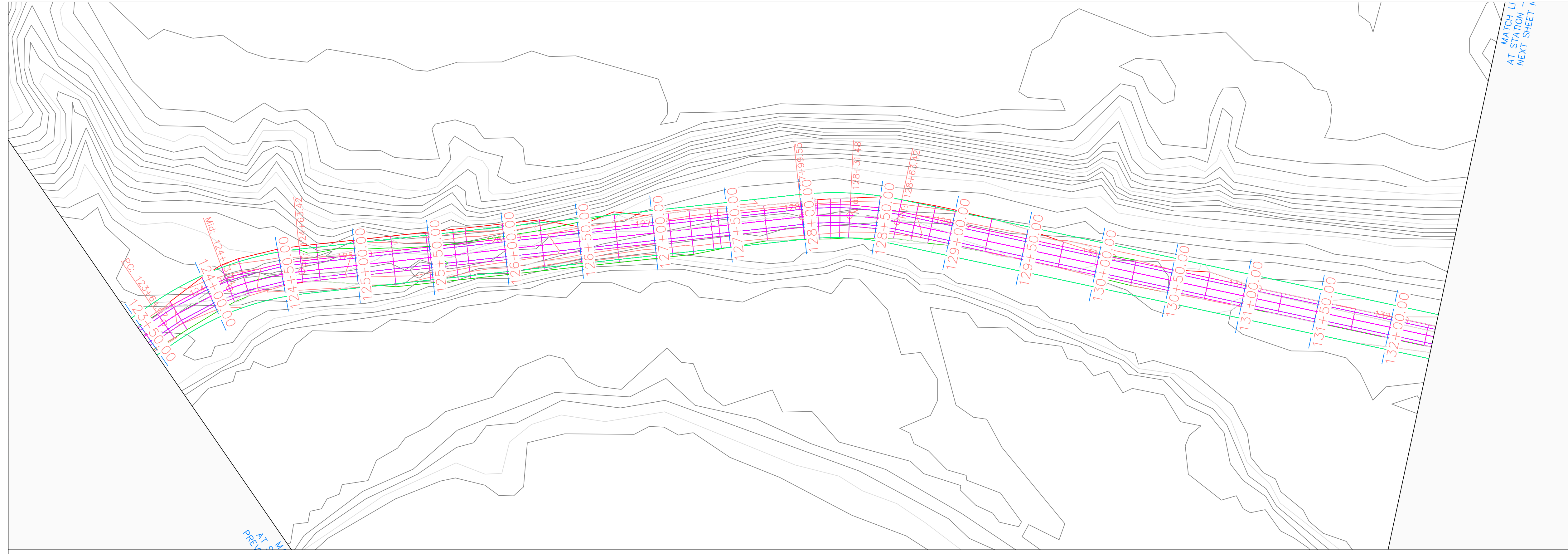


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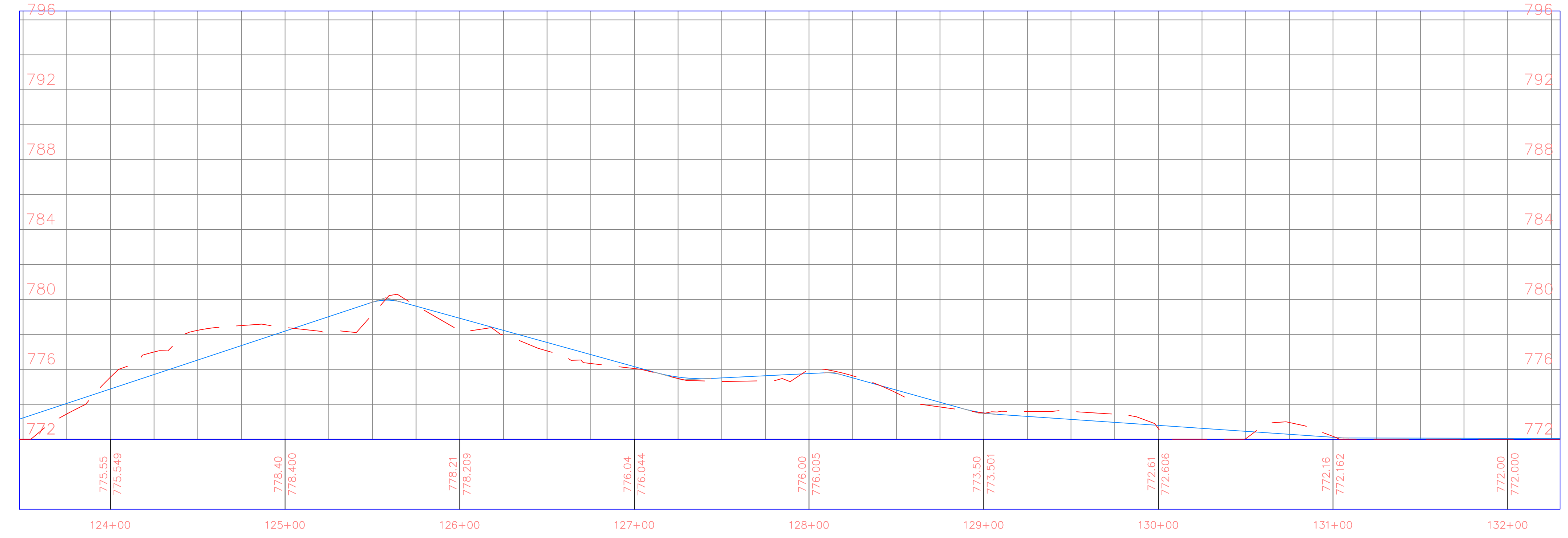
Volga Trail

SHEET NAME
 SHEET NAME 1
 SHEET NAME 2

SHEET NO.
XX

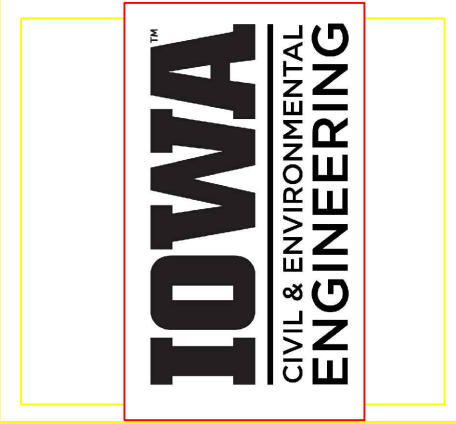


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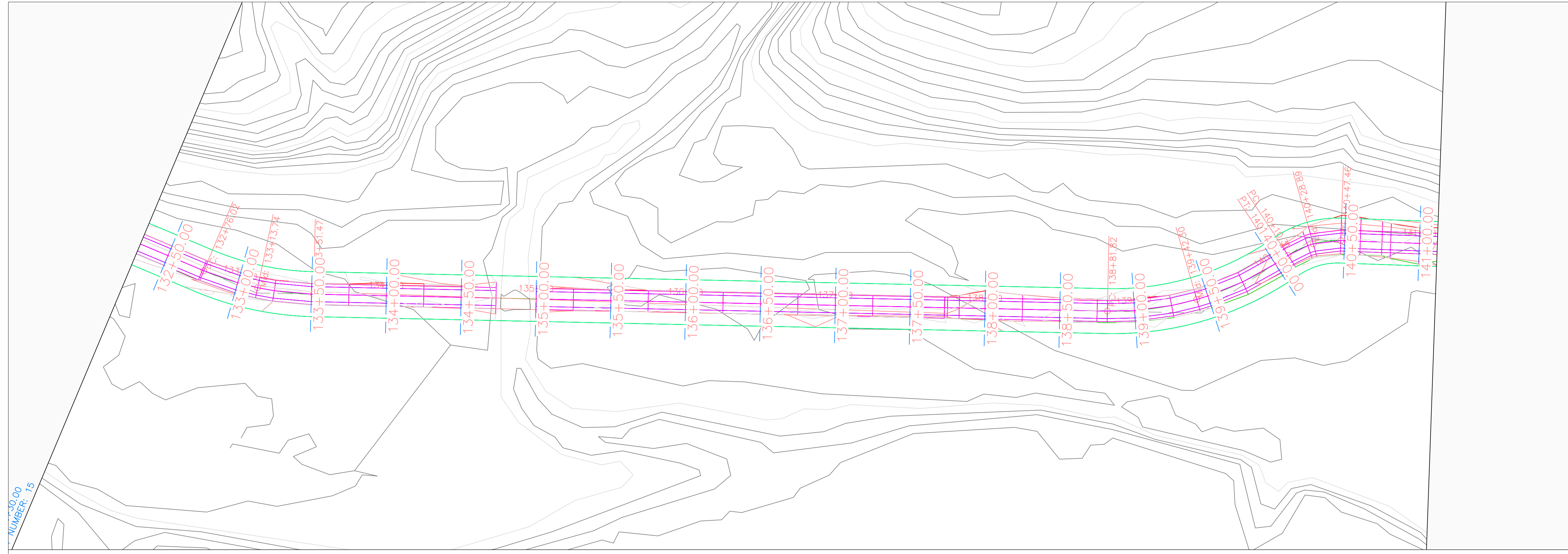


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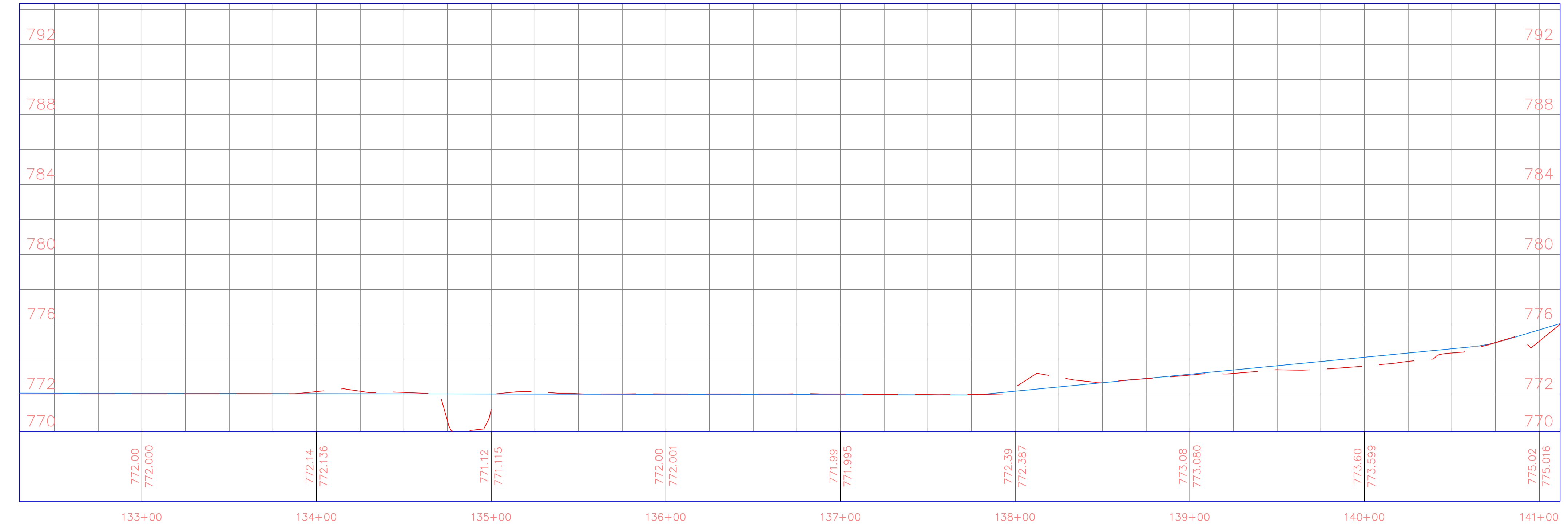
SHEET NAME
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 SHEET NAME 2

SHEET NO.
XX



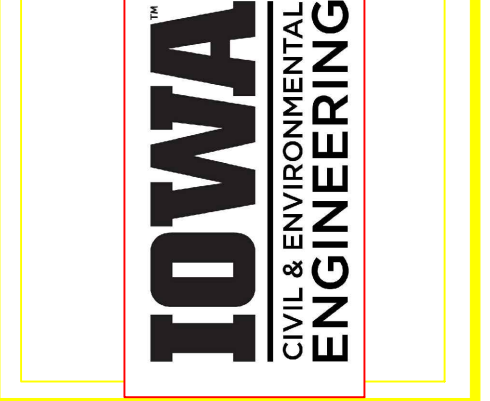
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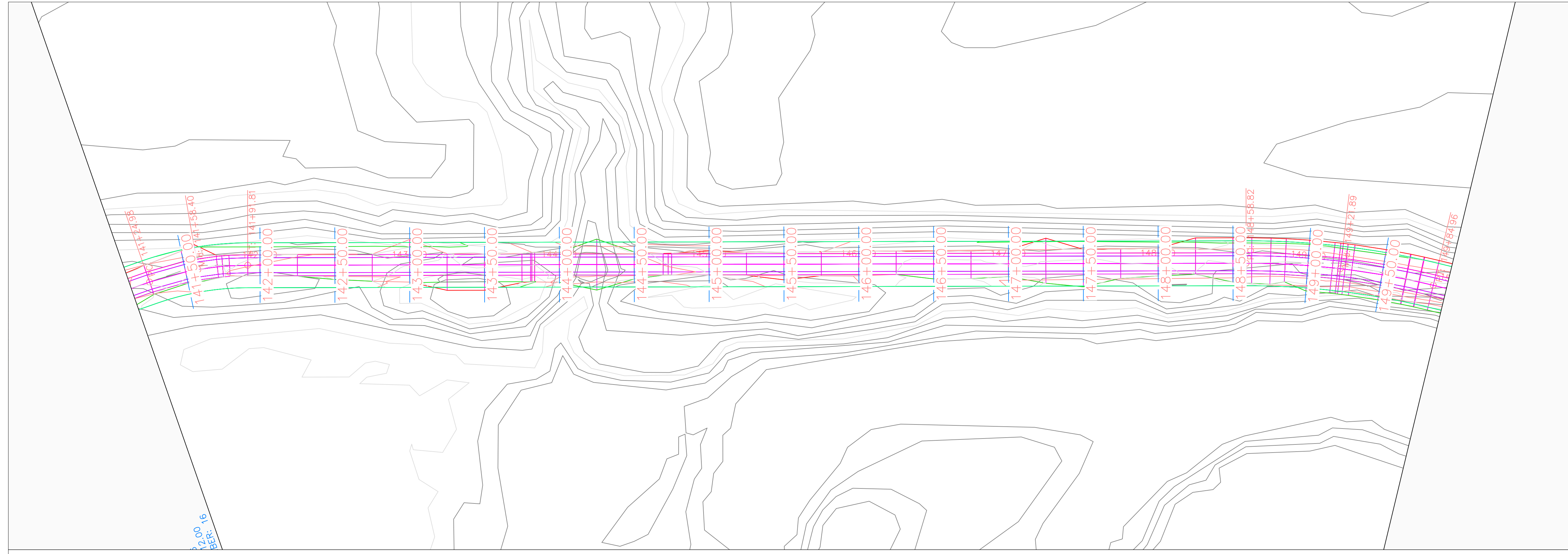


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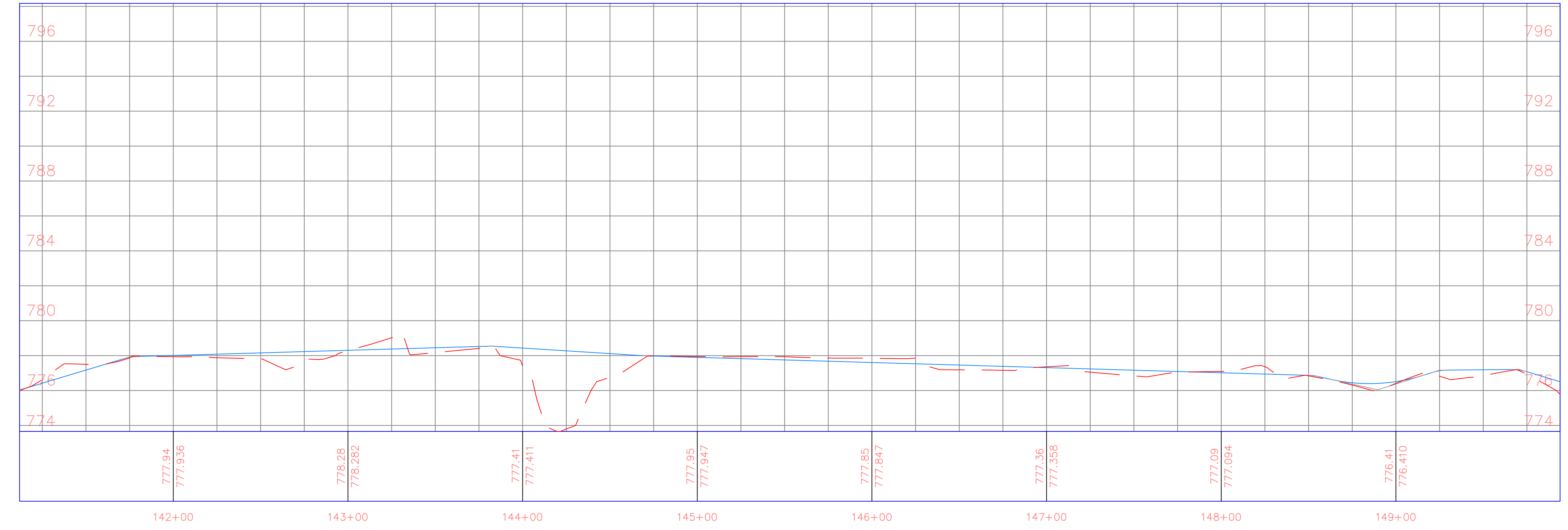
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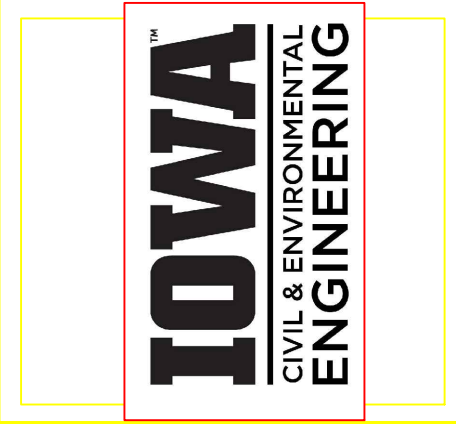


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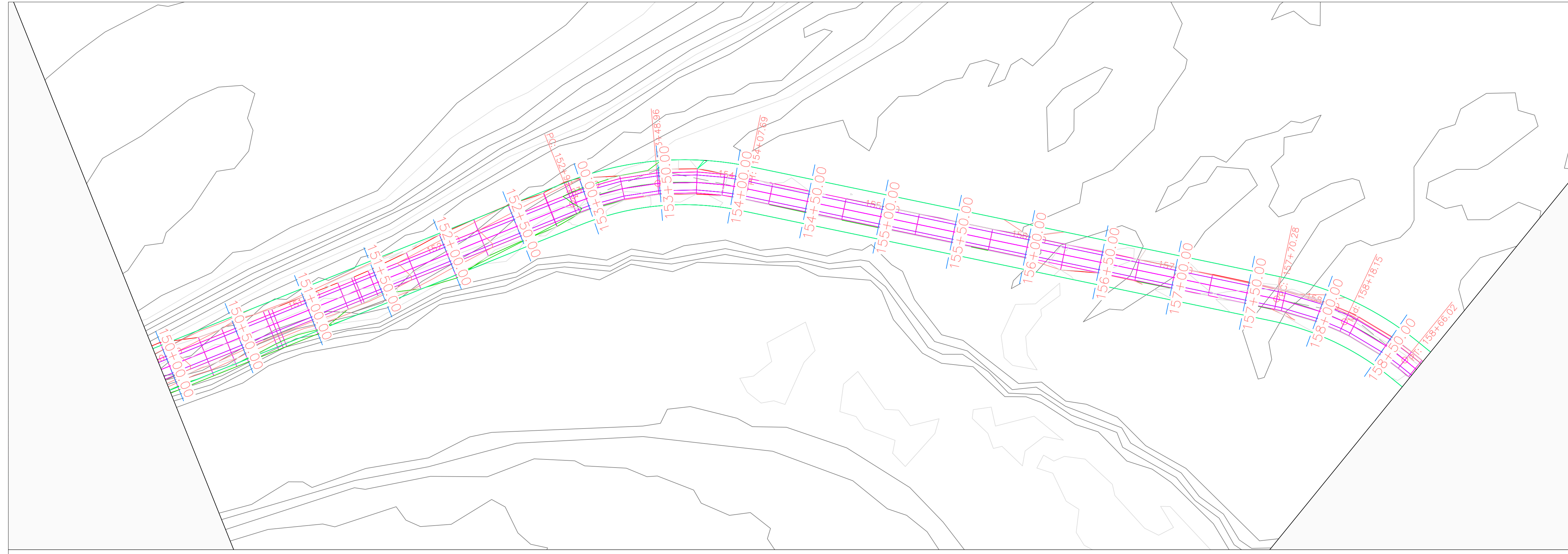


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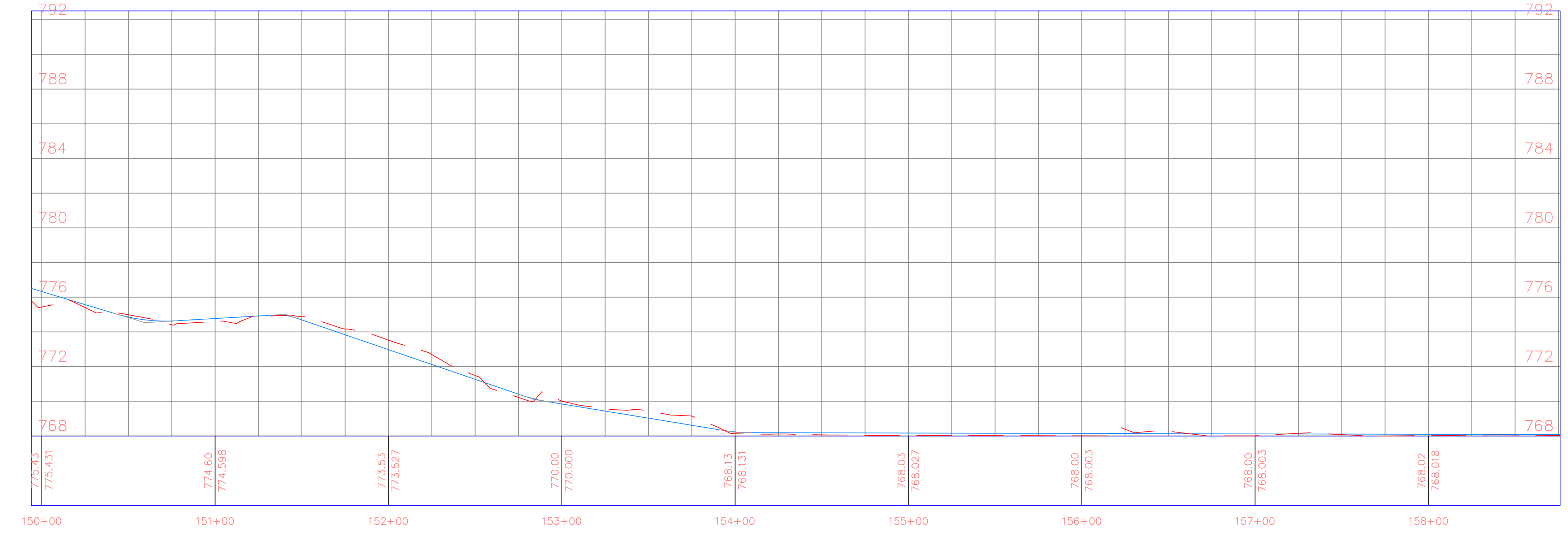
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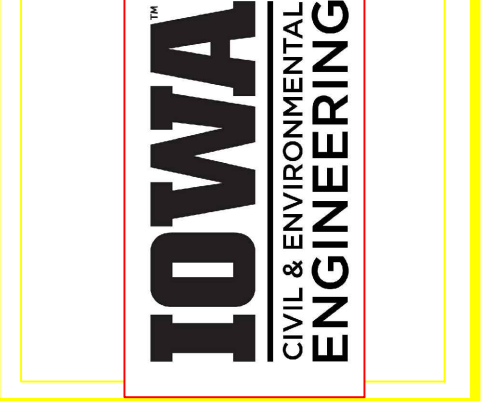


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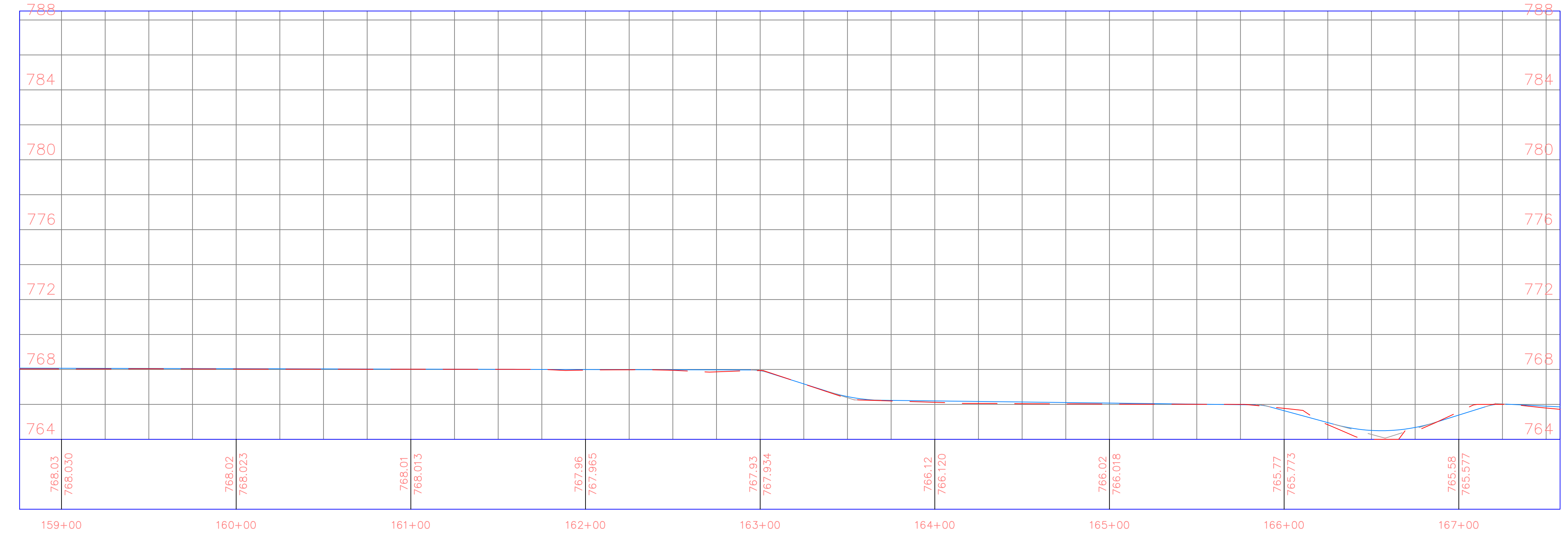
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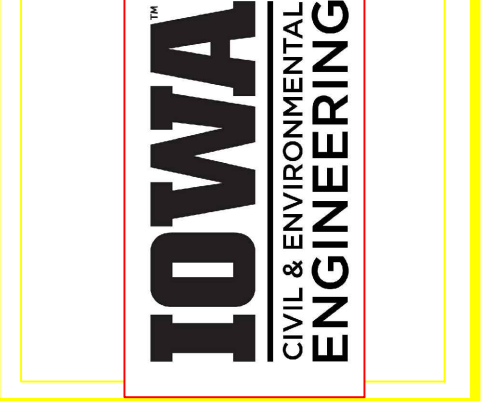


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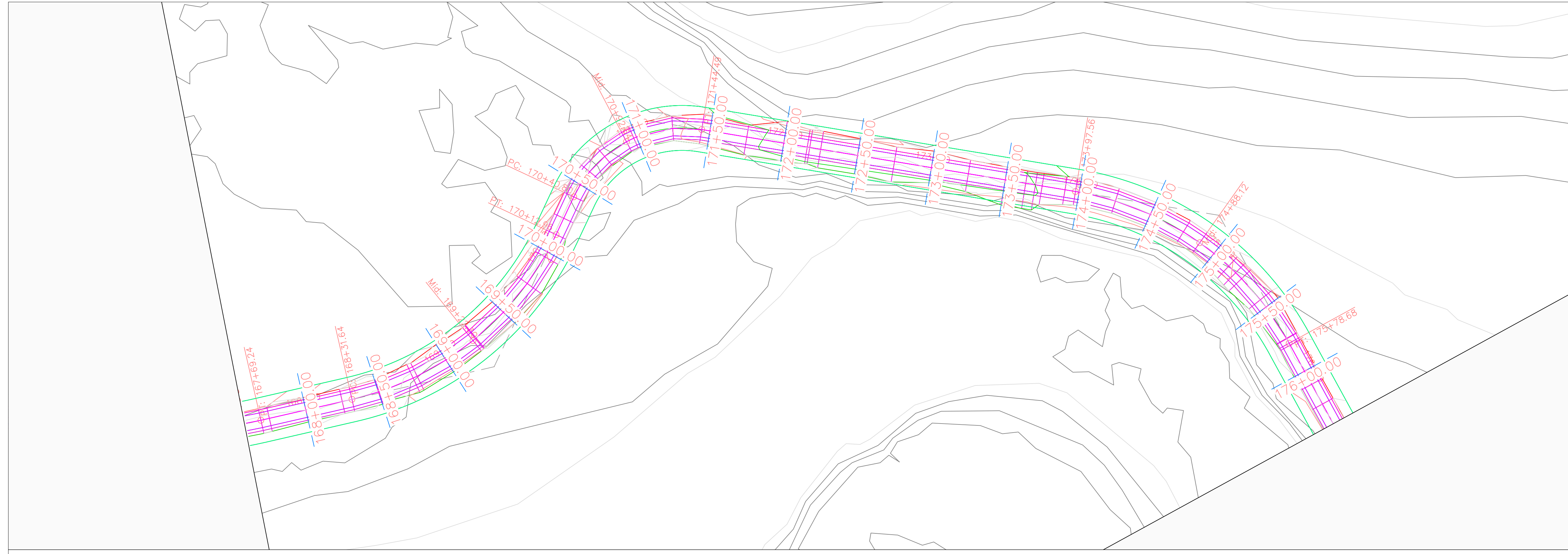


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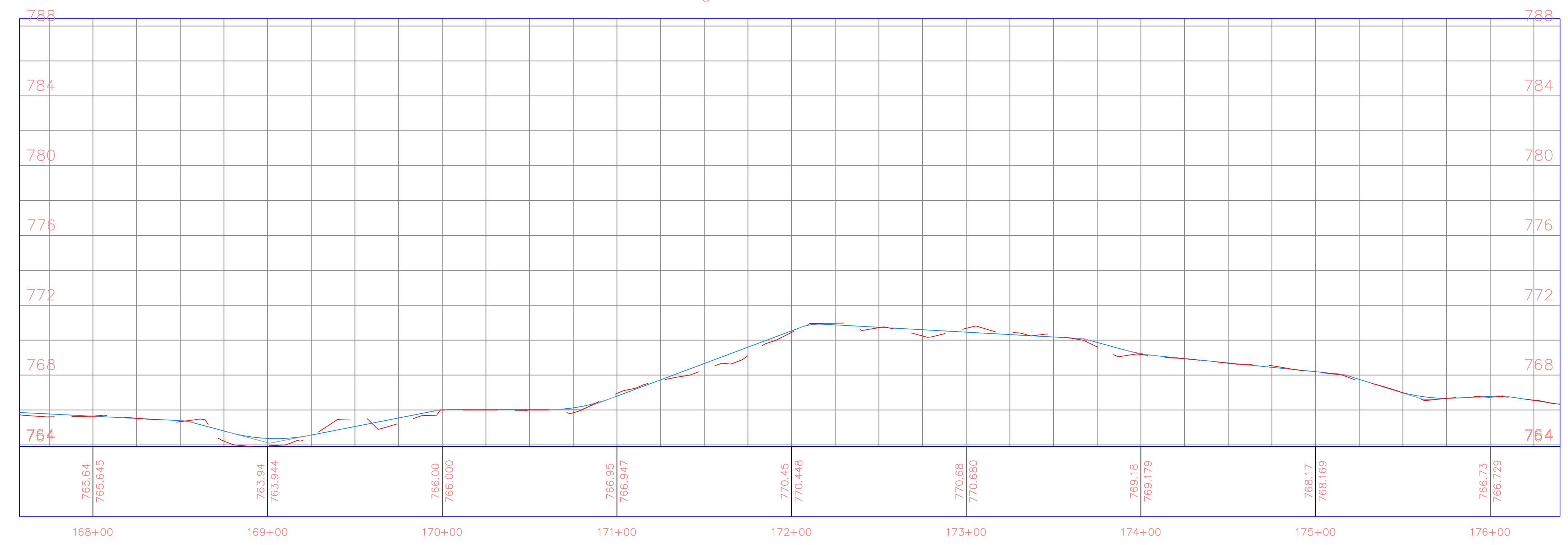
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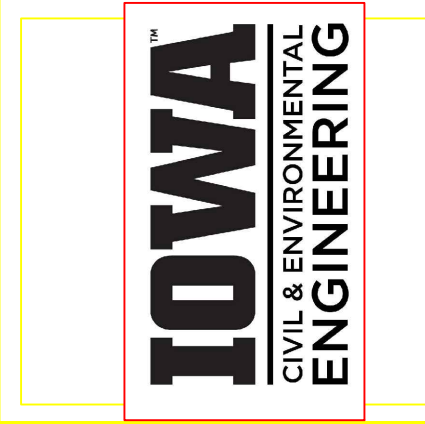


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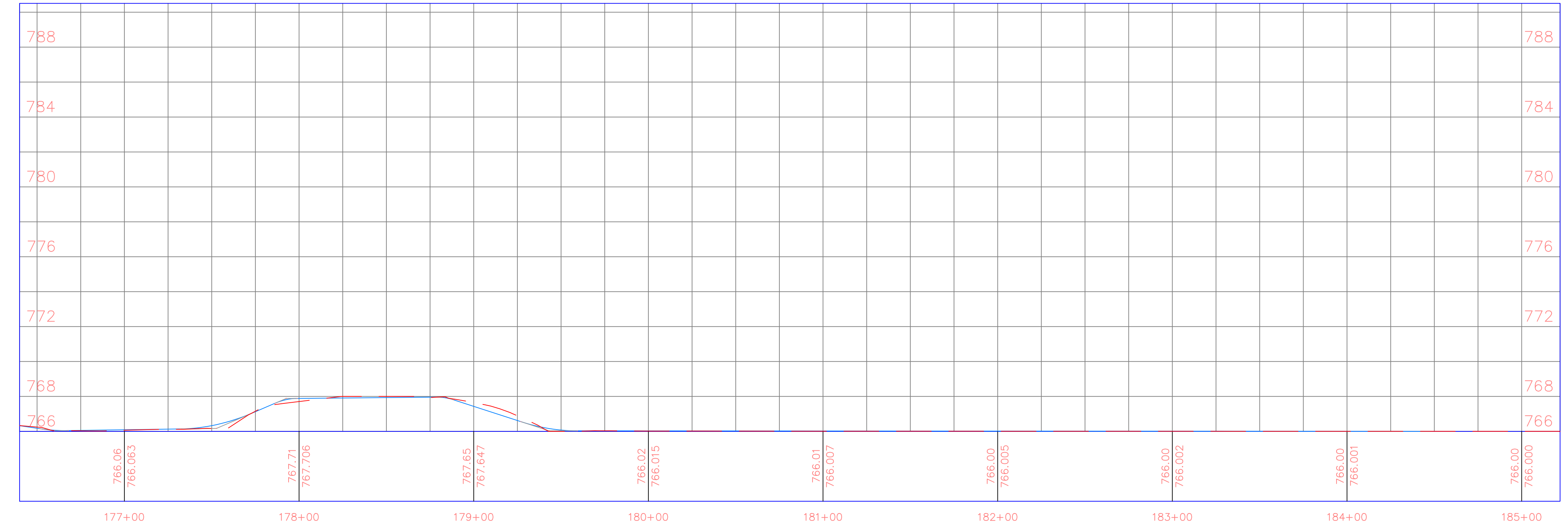
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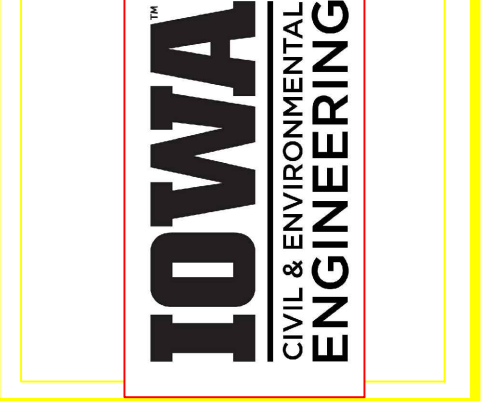


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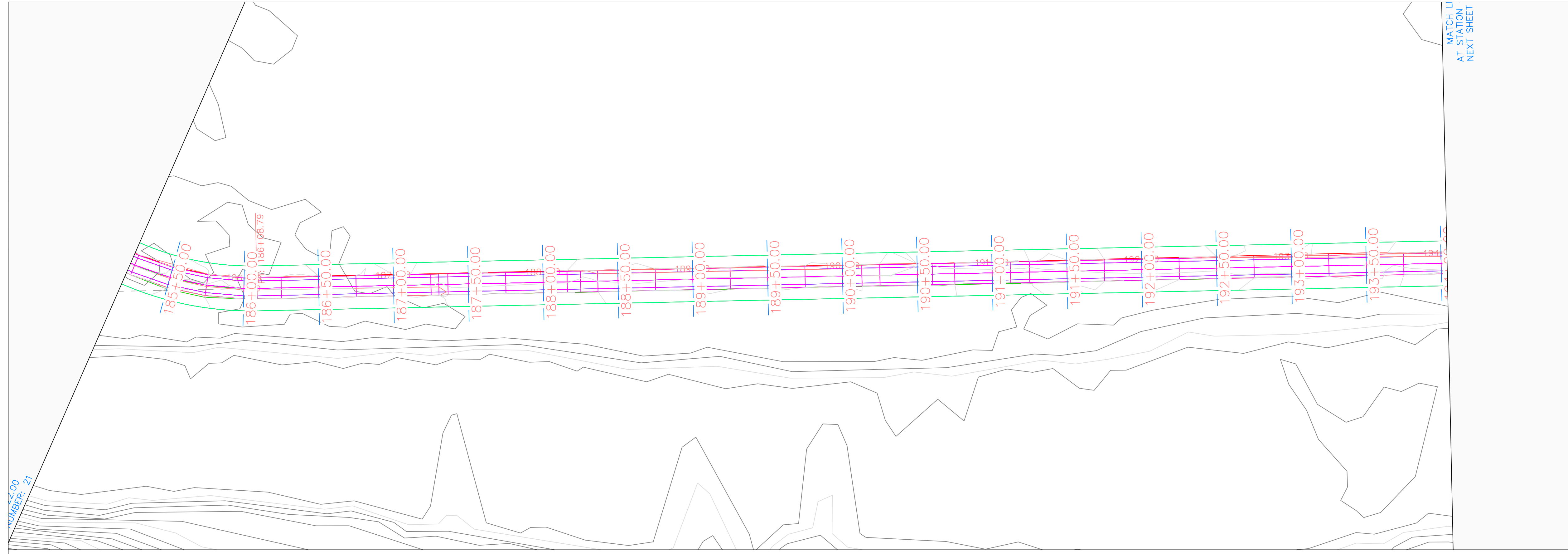
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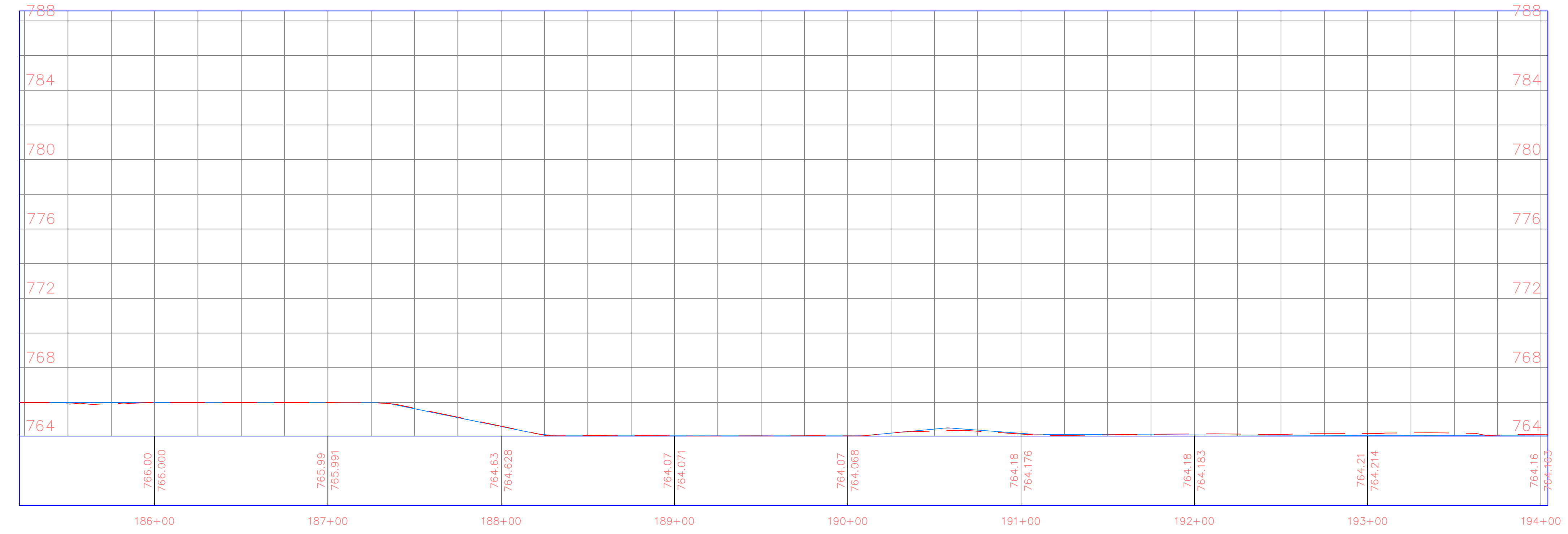
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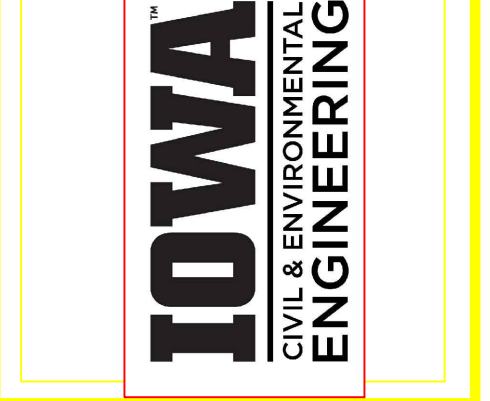


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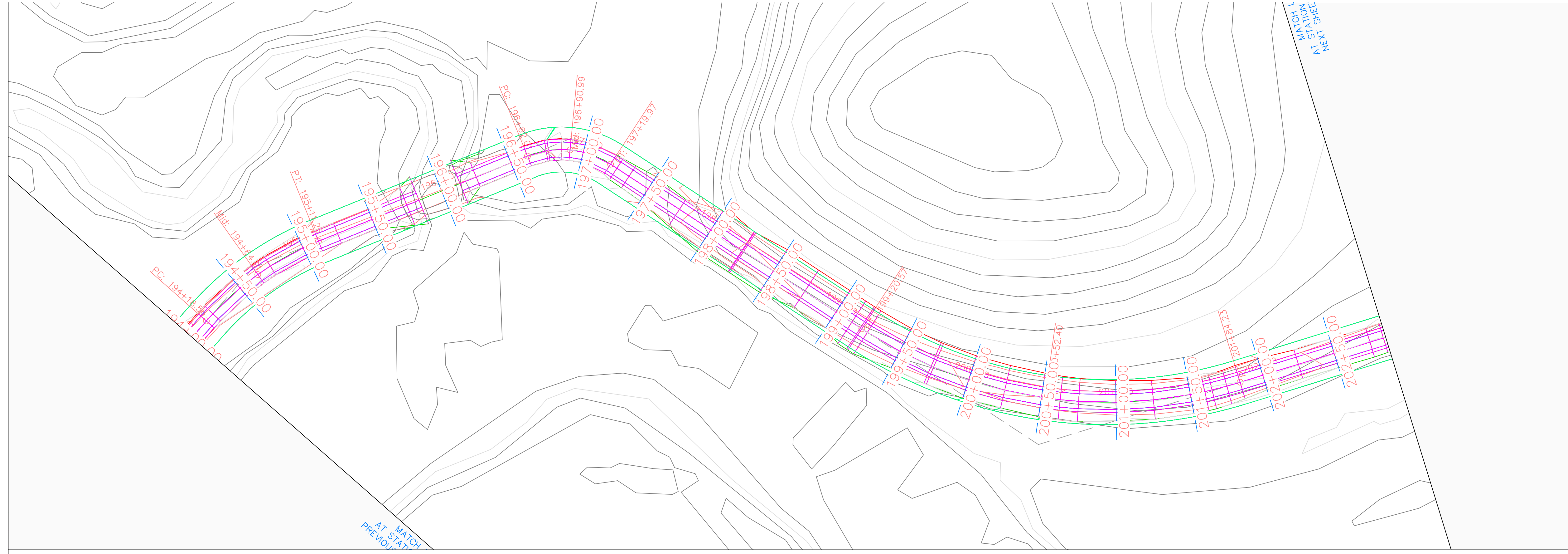


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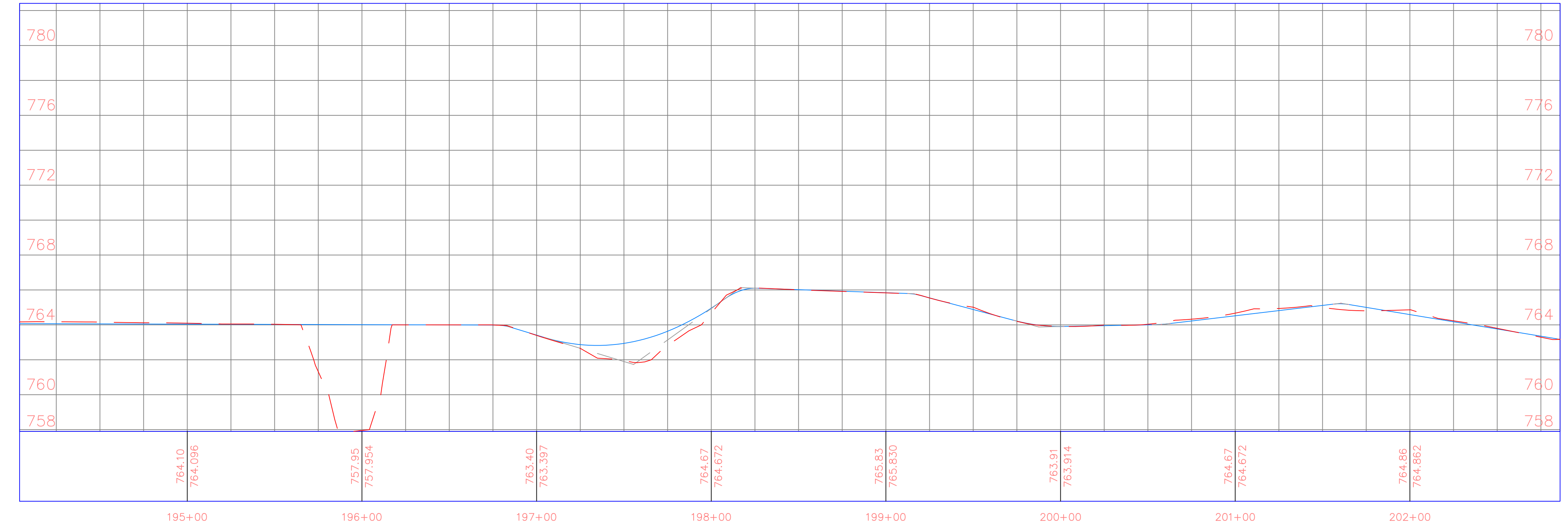
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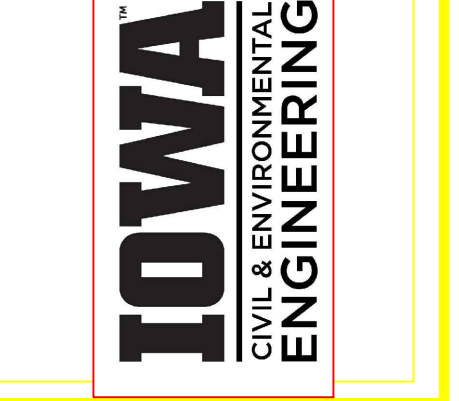


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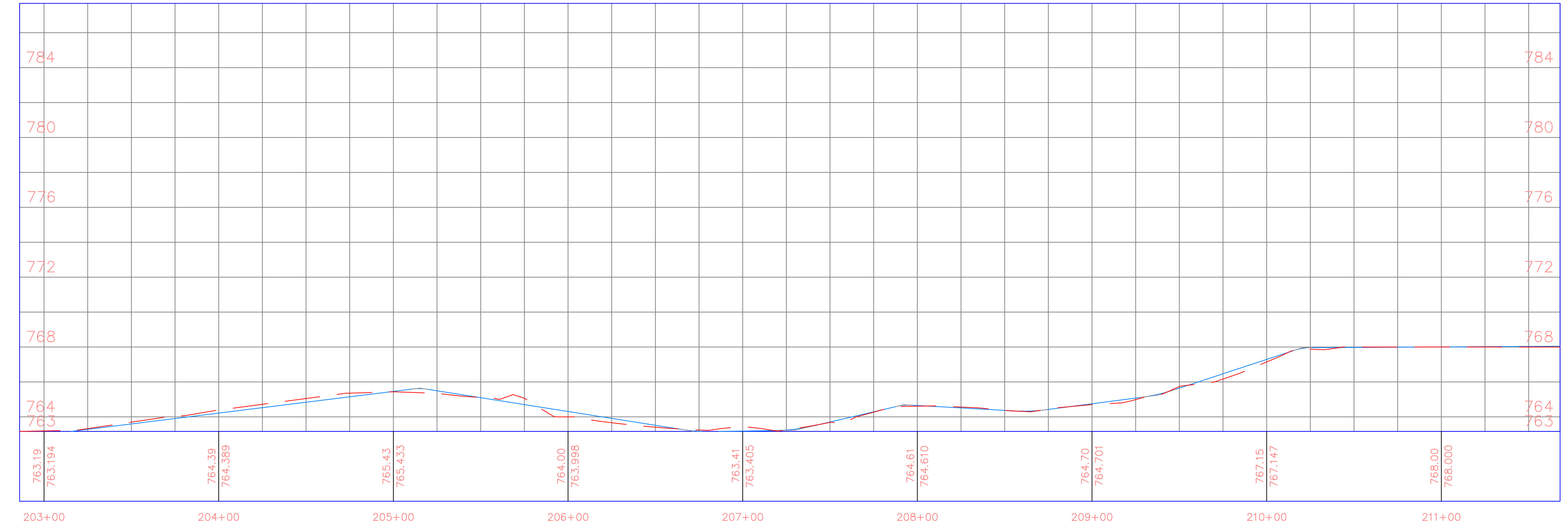
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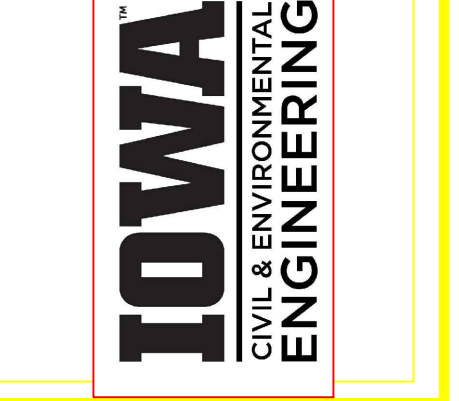


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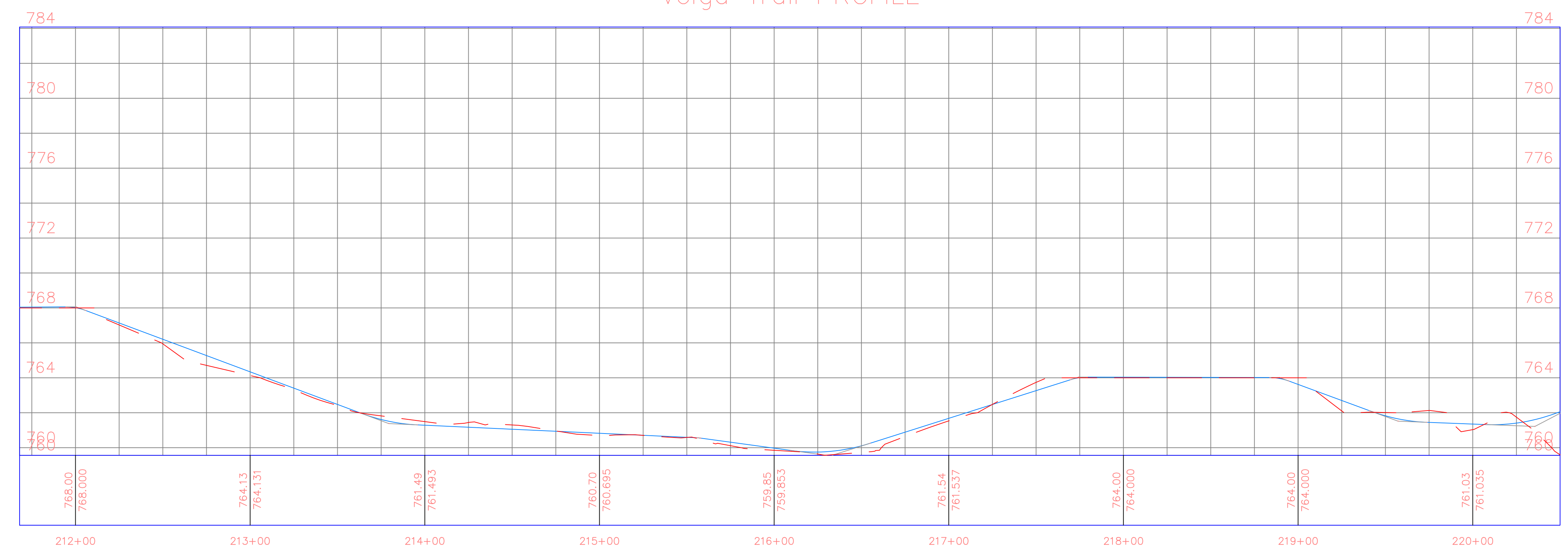
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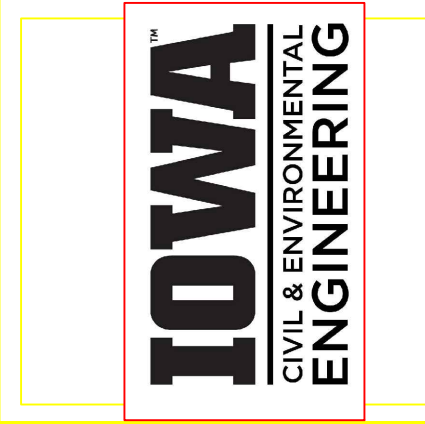


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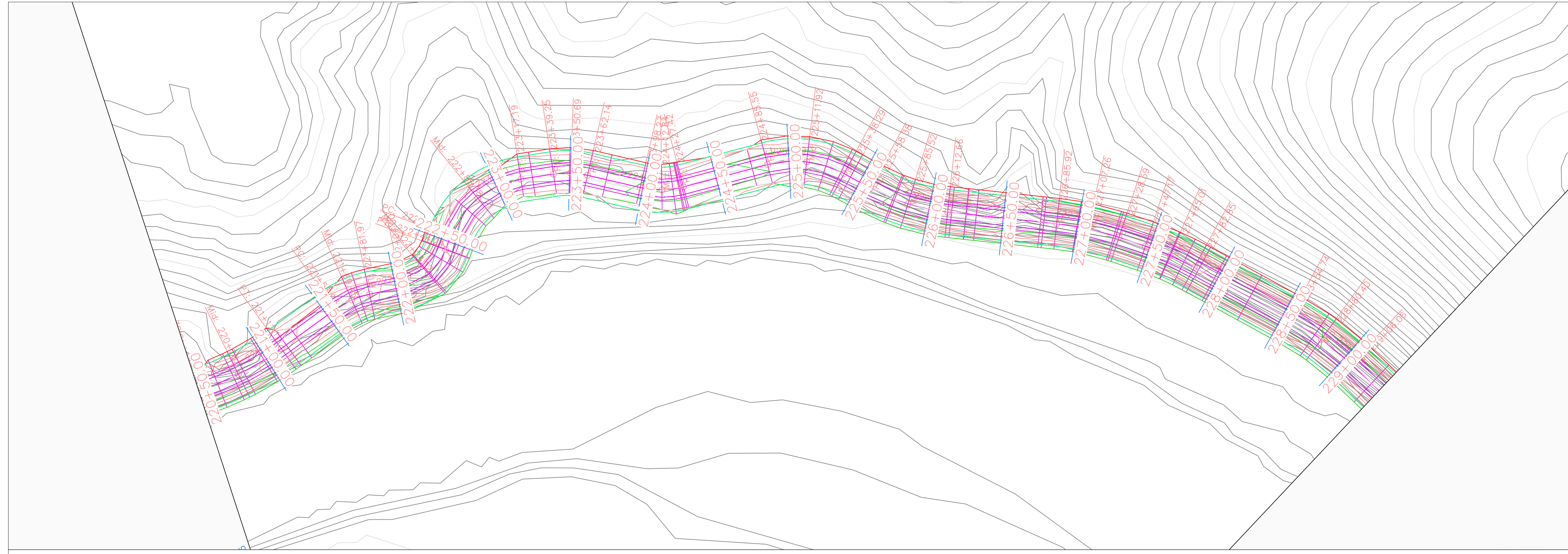
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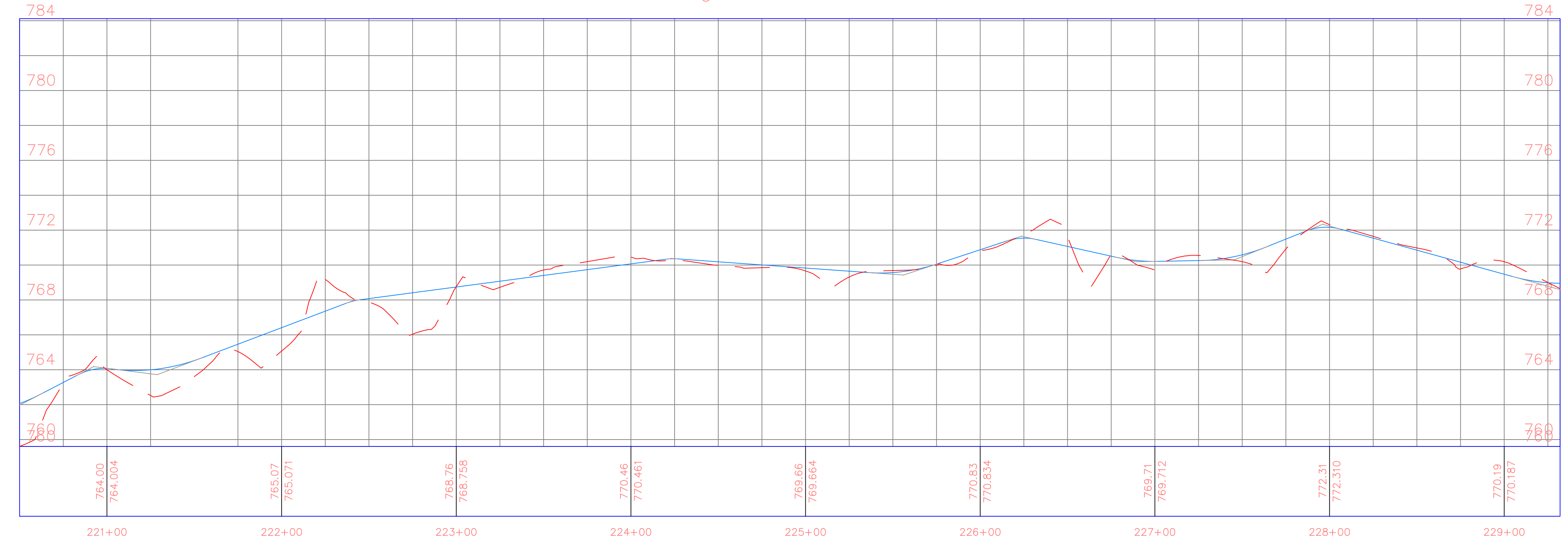
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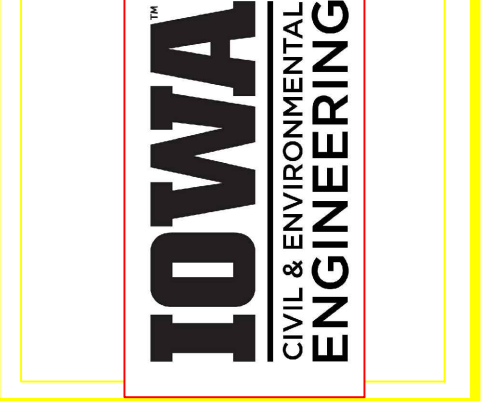


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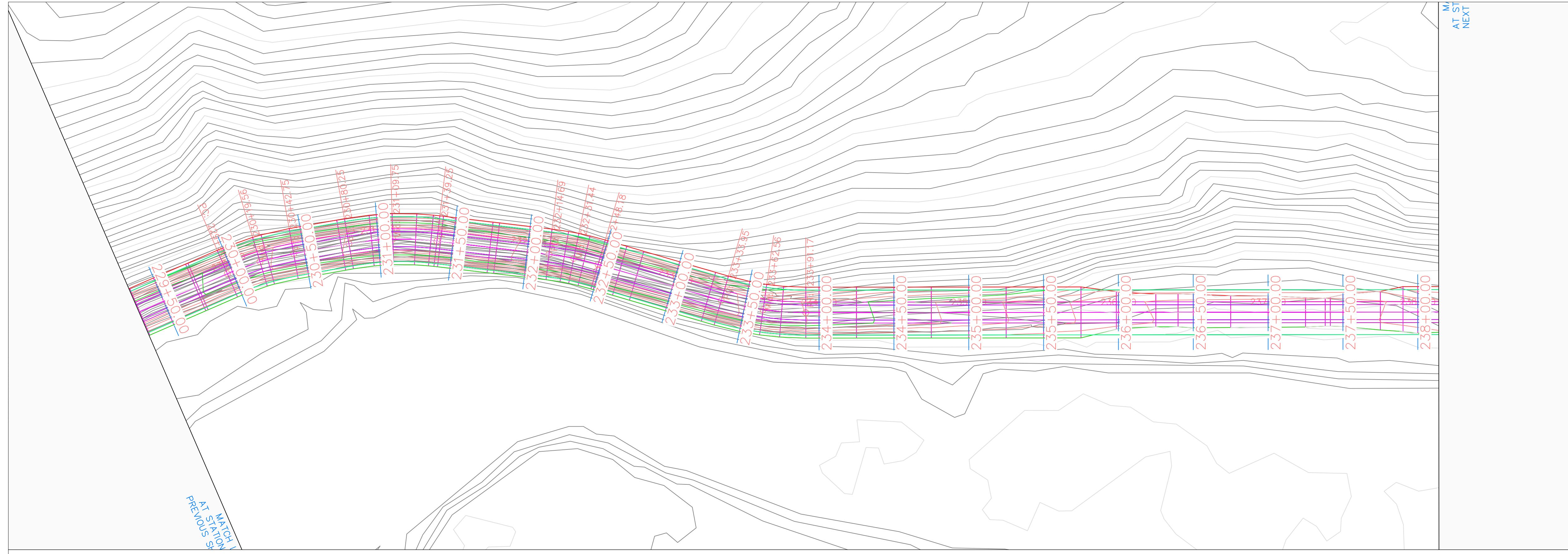
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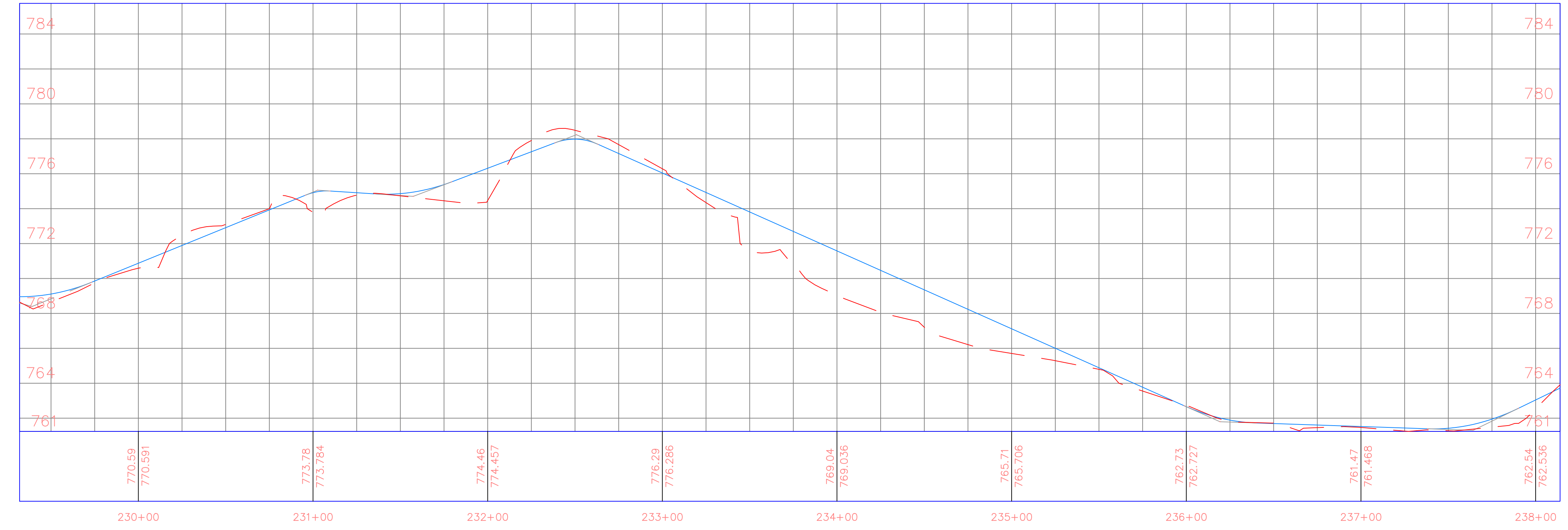
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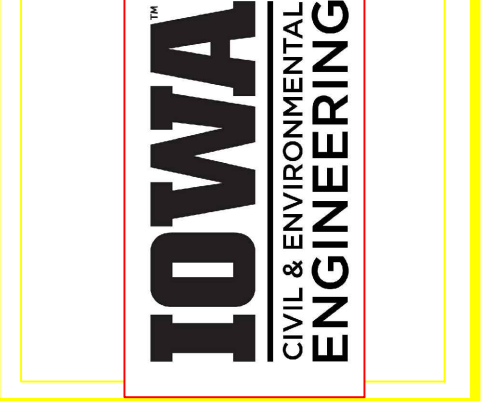


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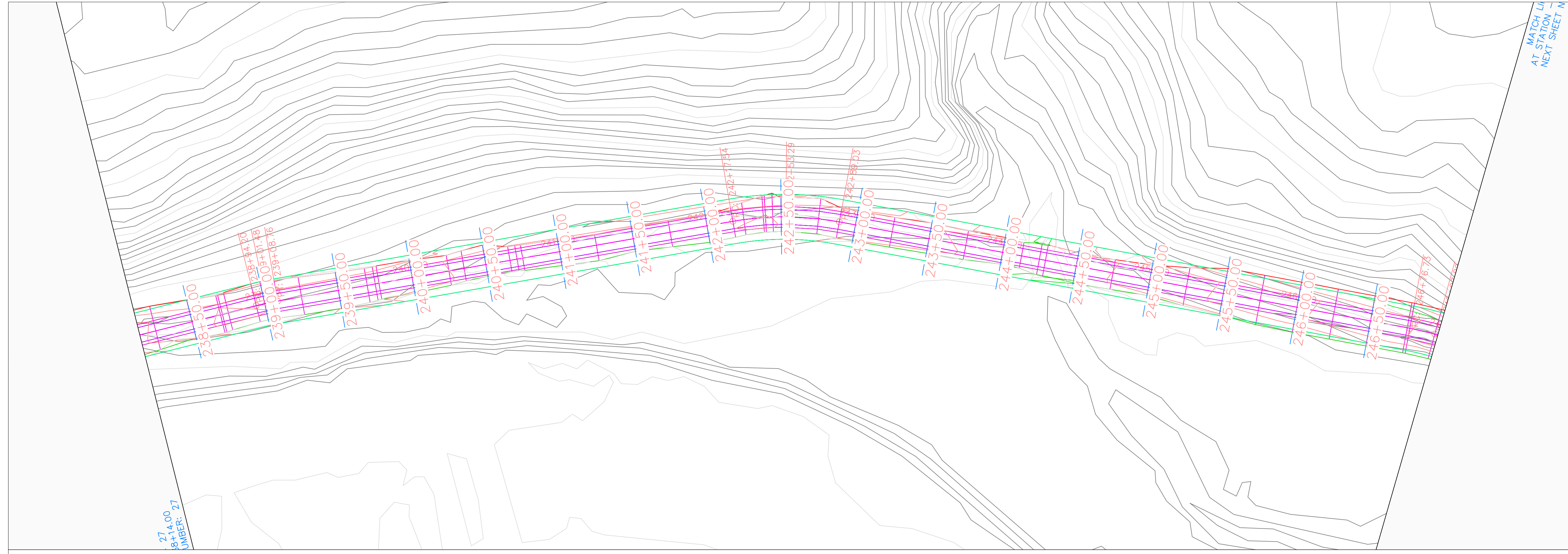
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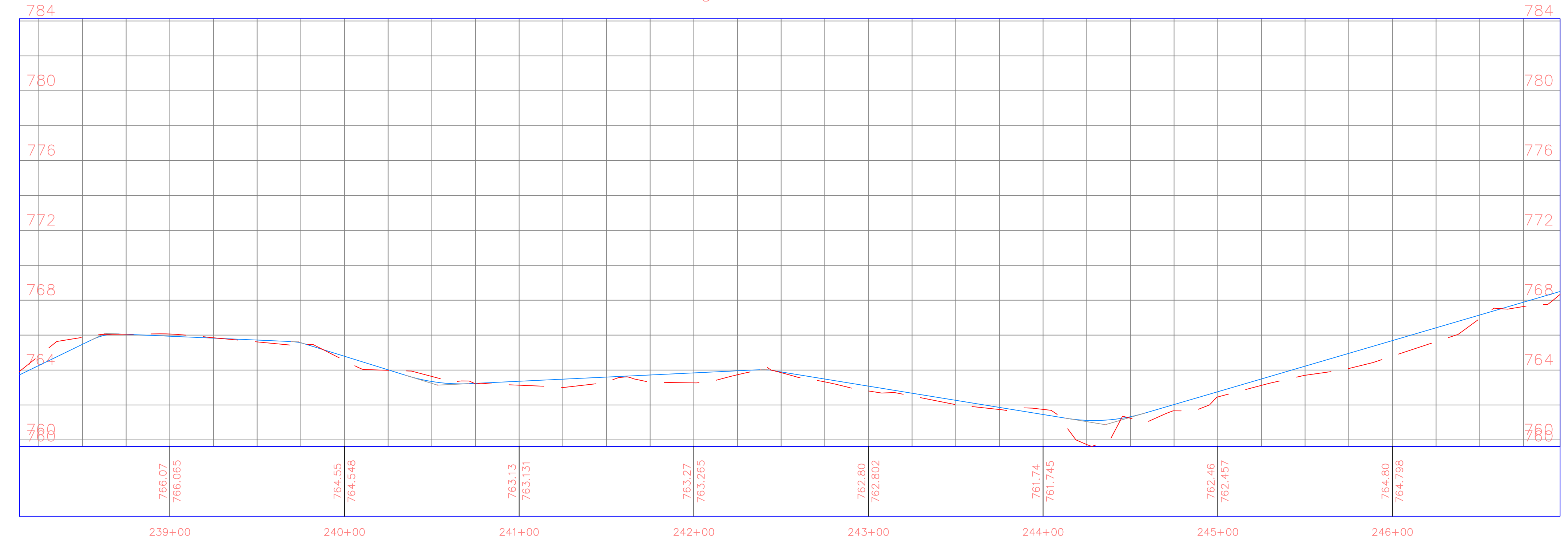
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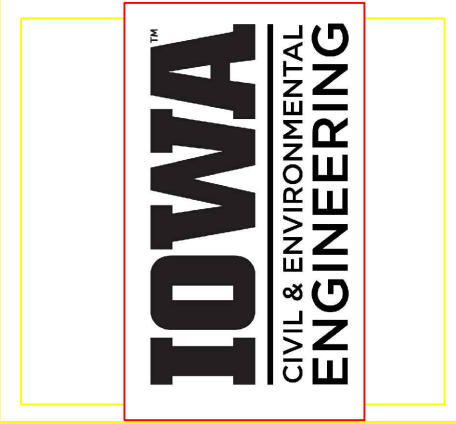


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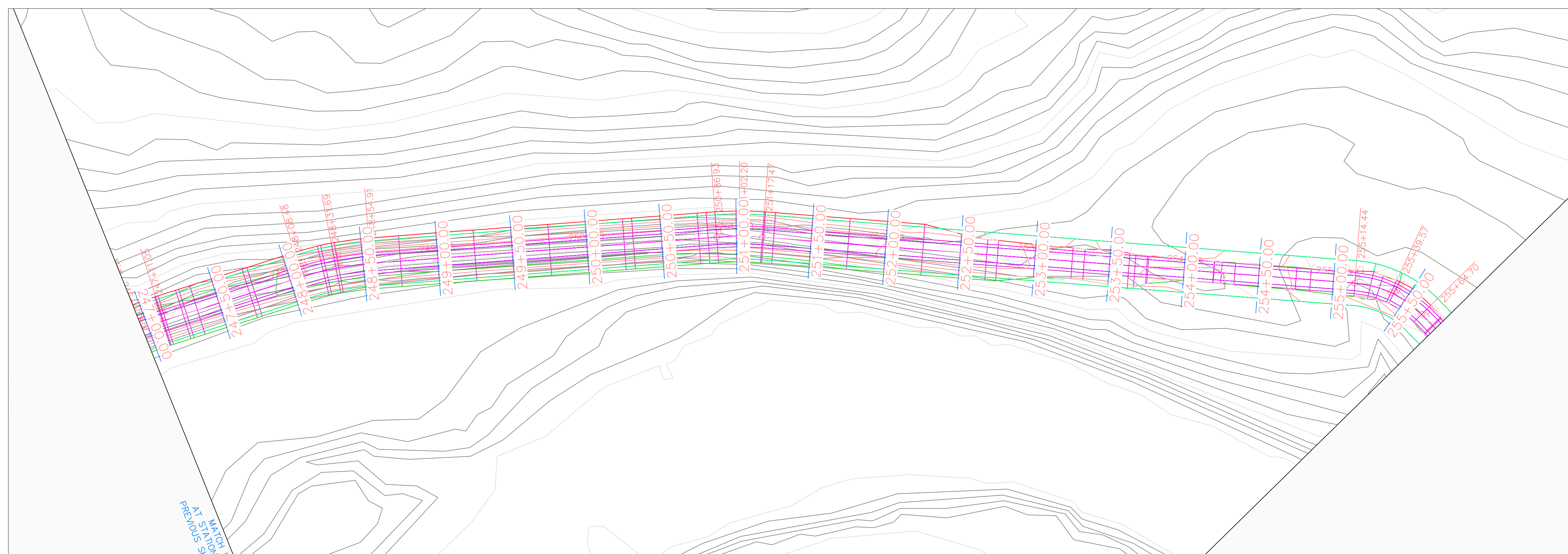
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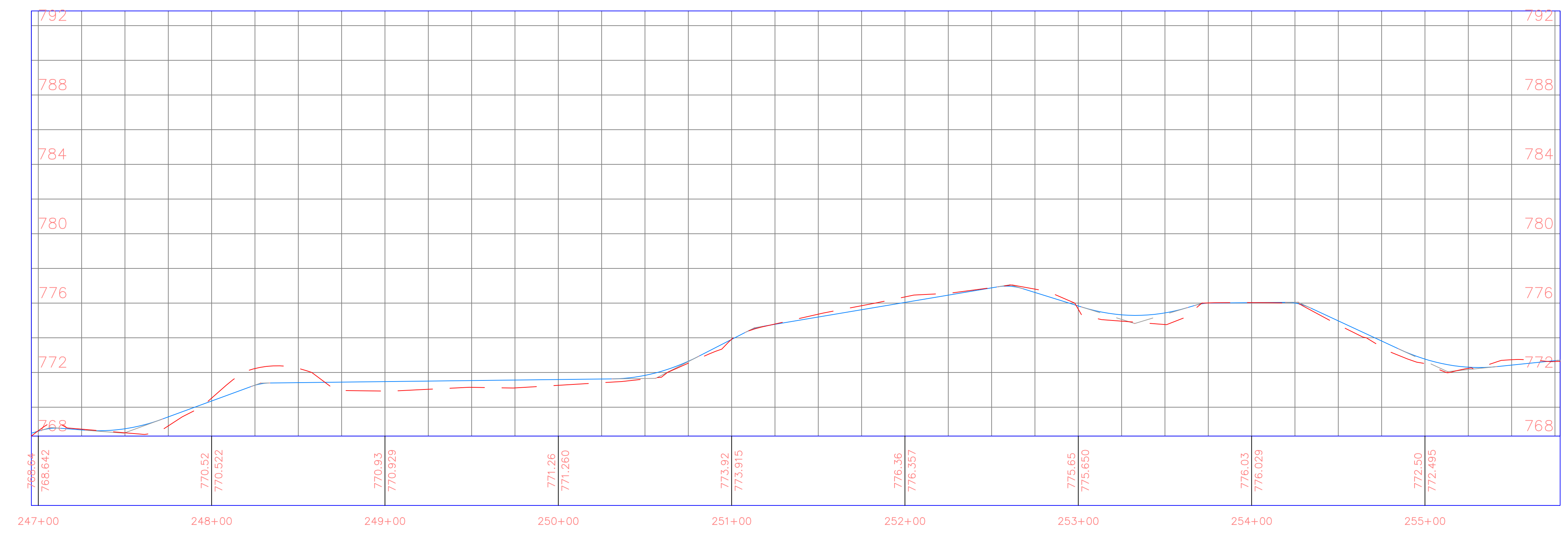
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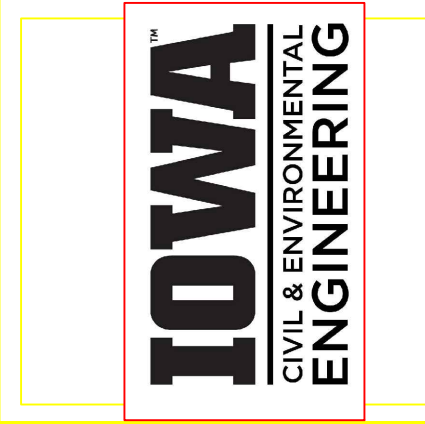


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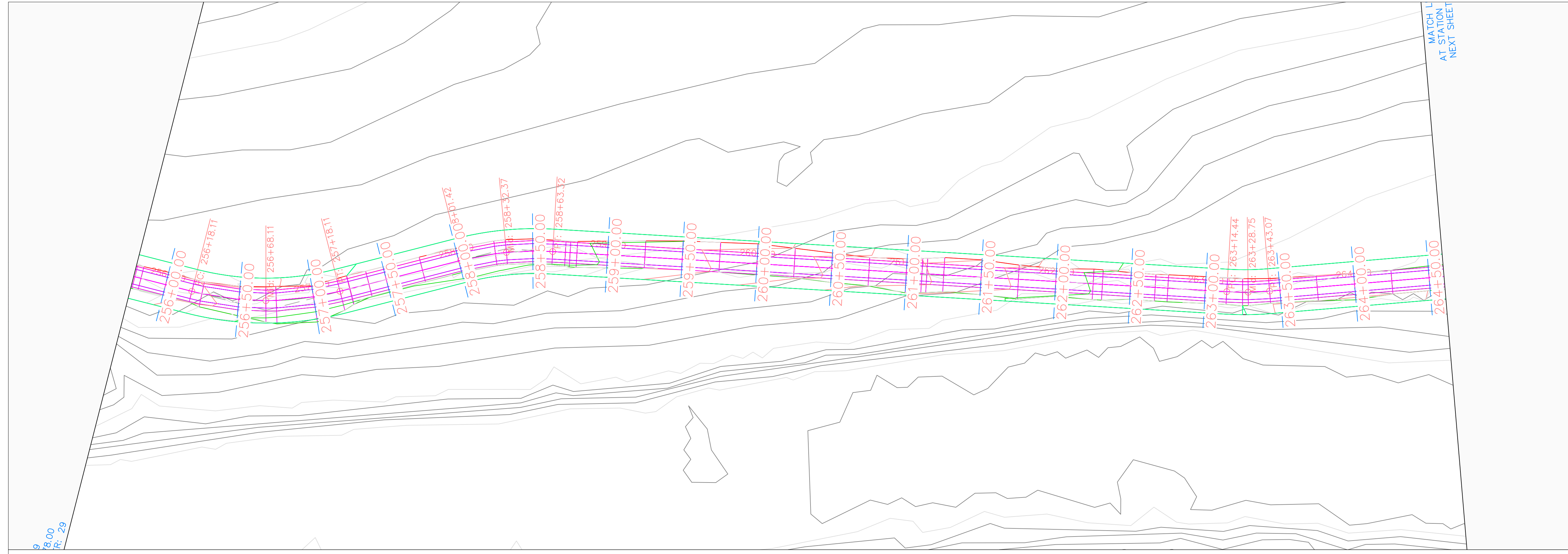
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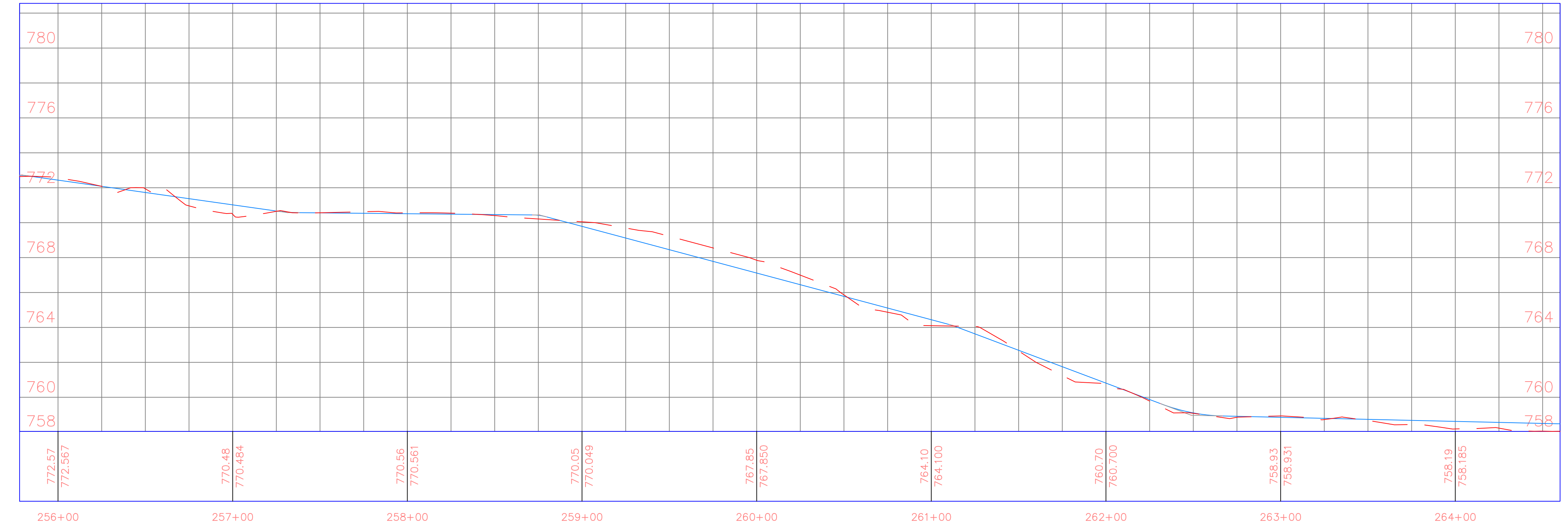
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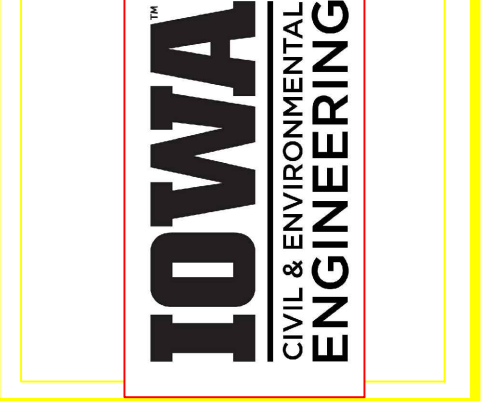


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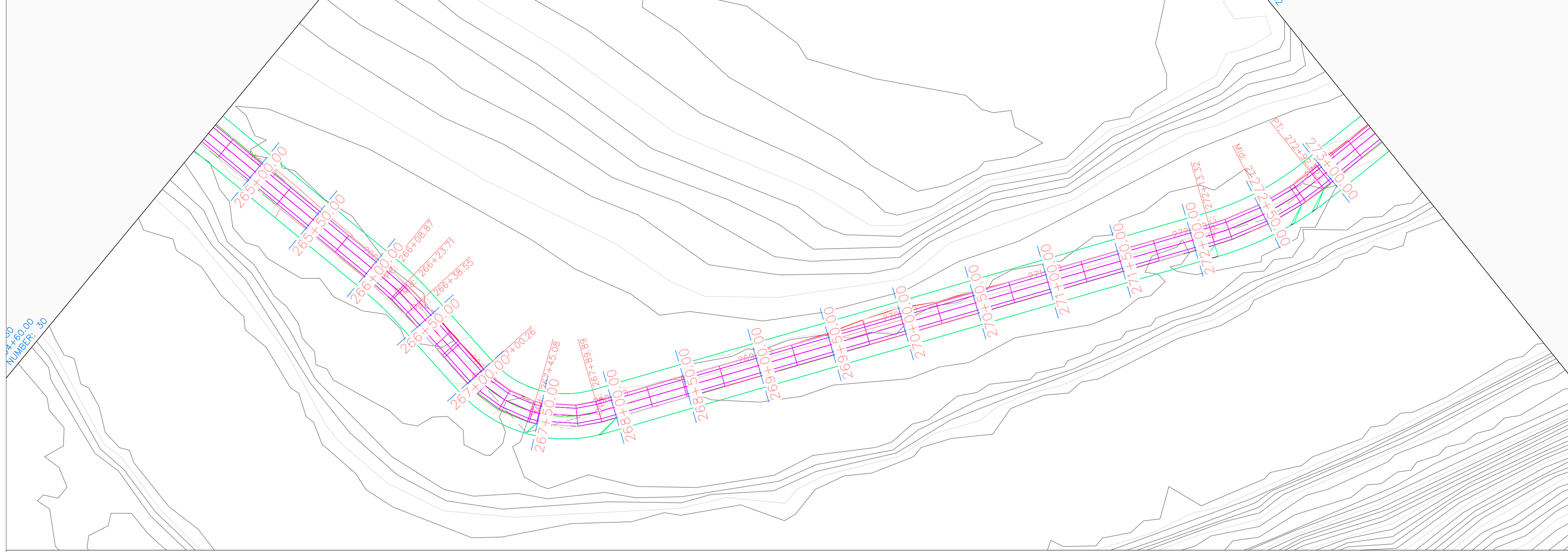


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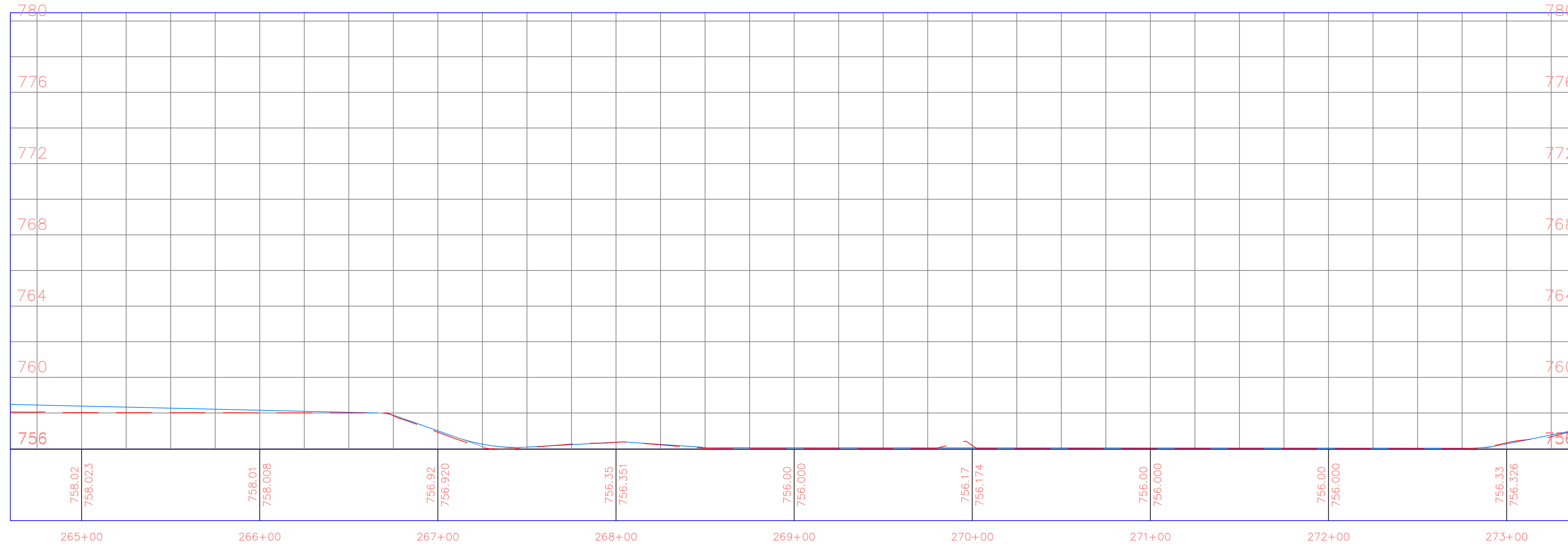
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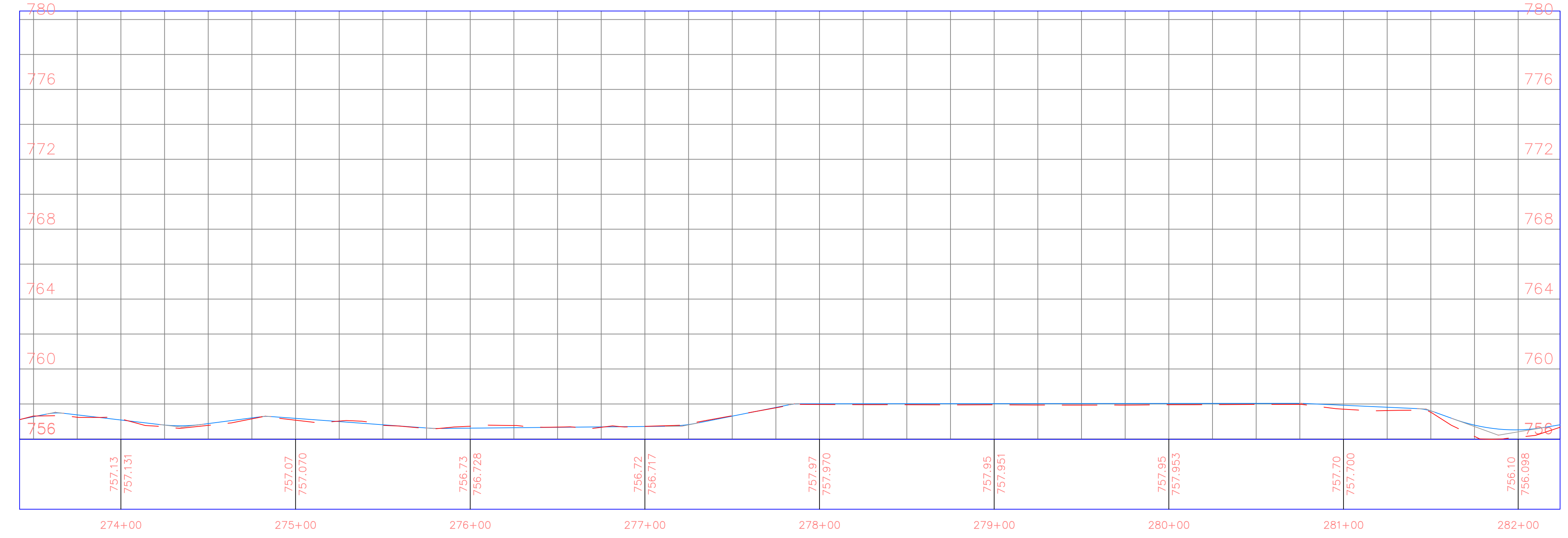
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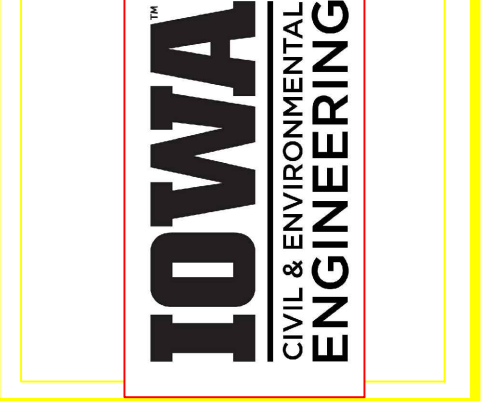


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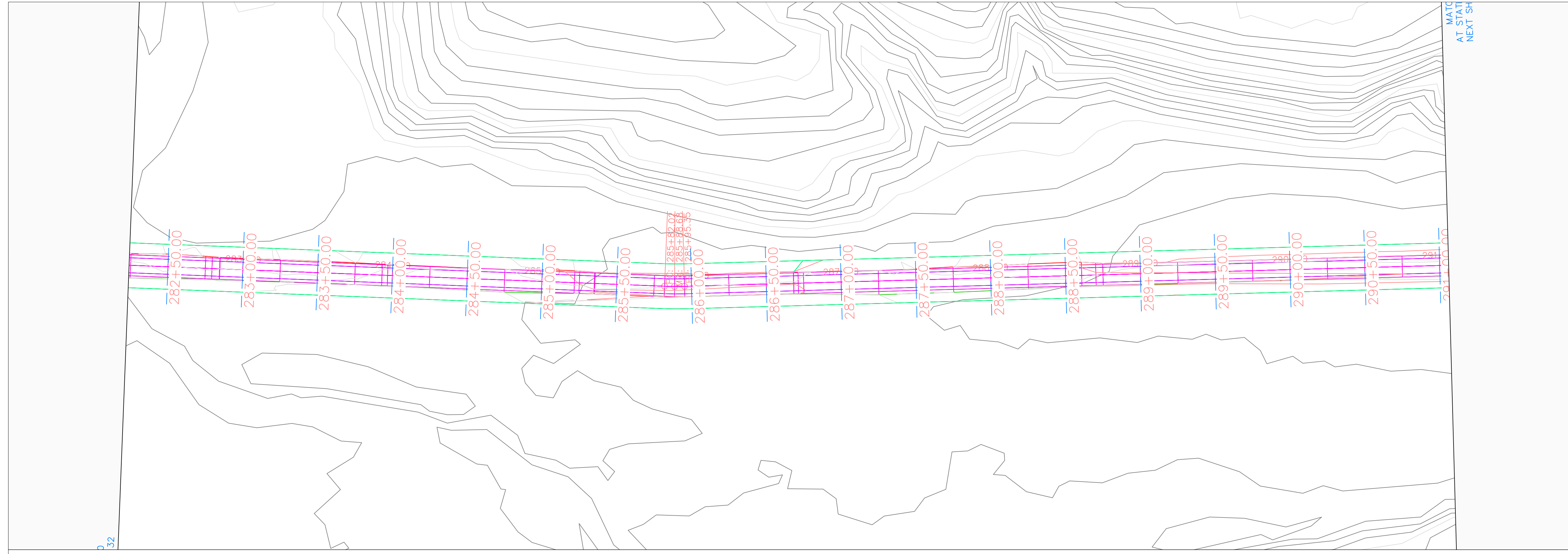


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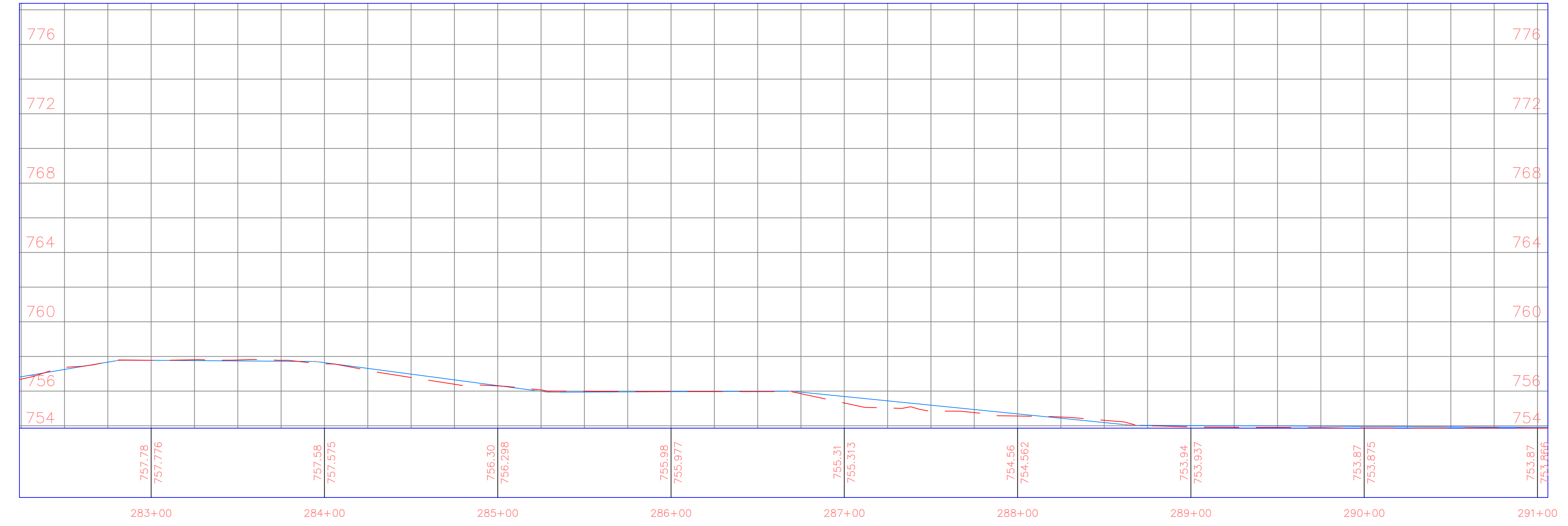
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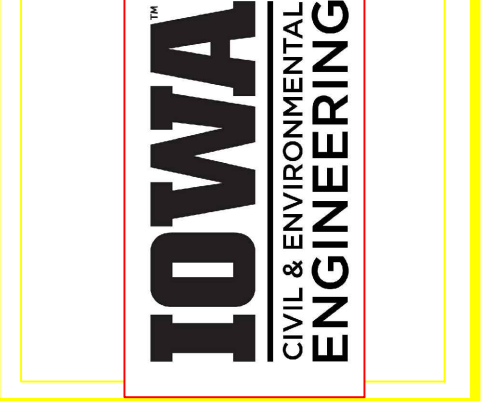


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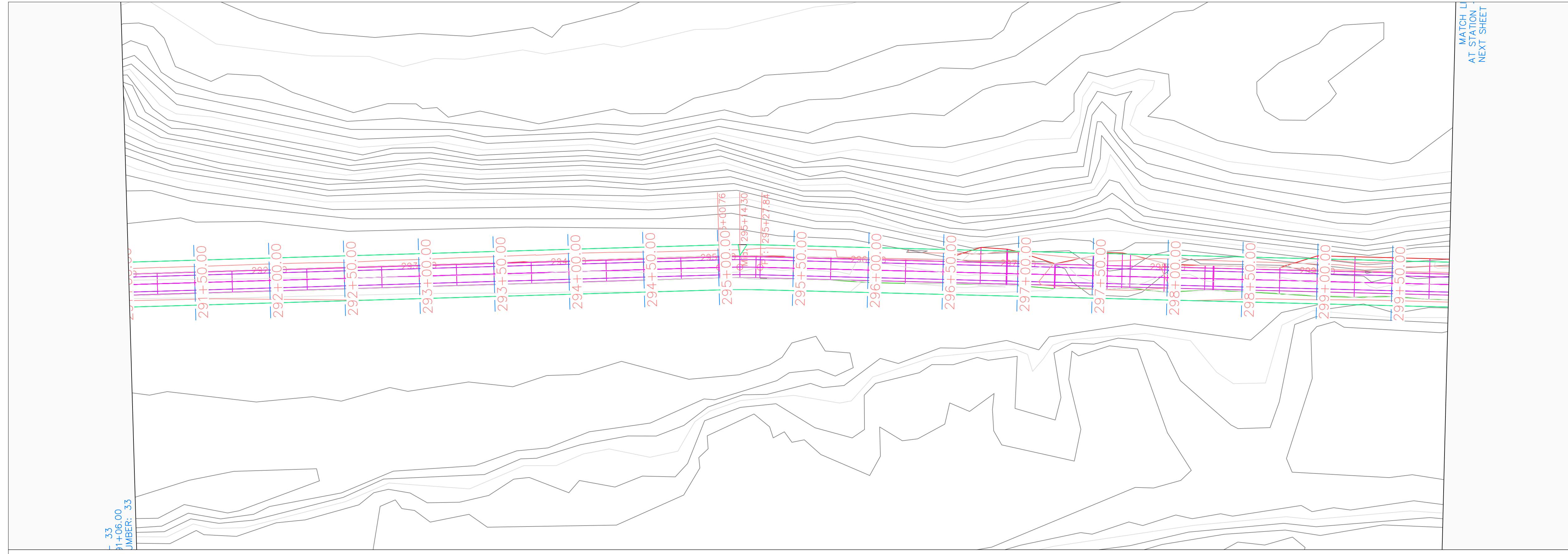


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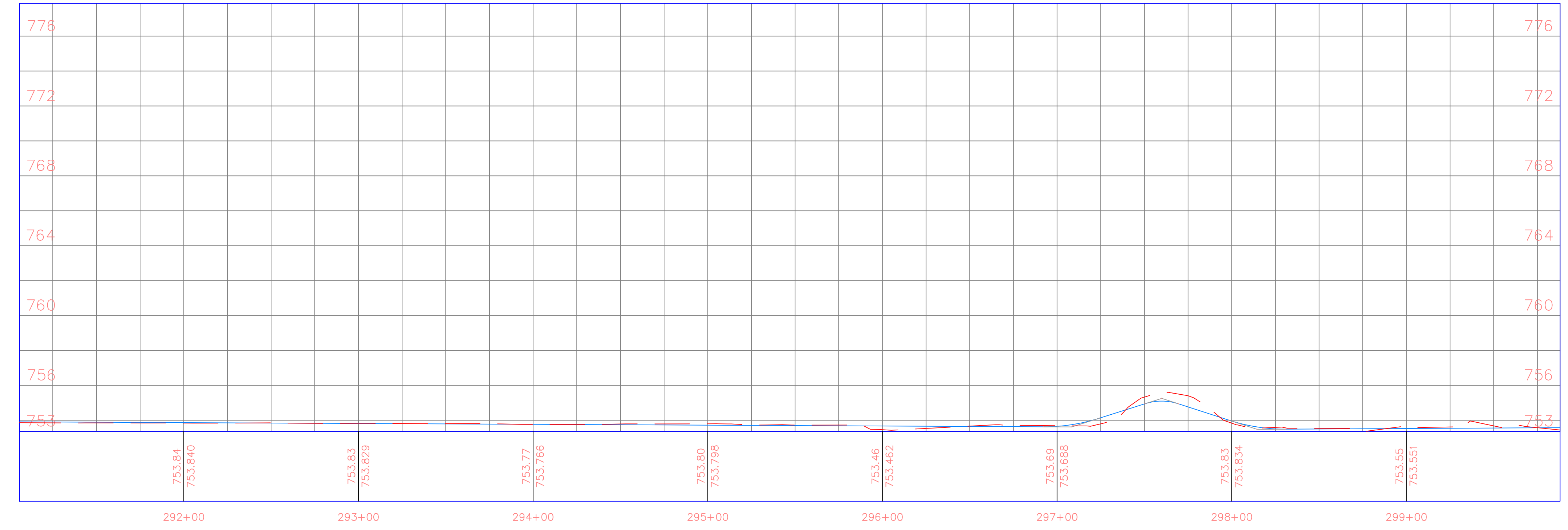
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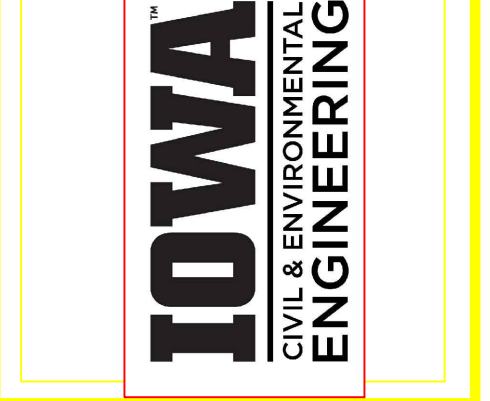
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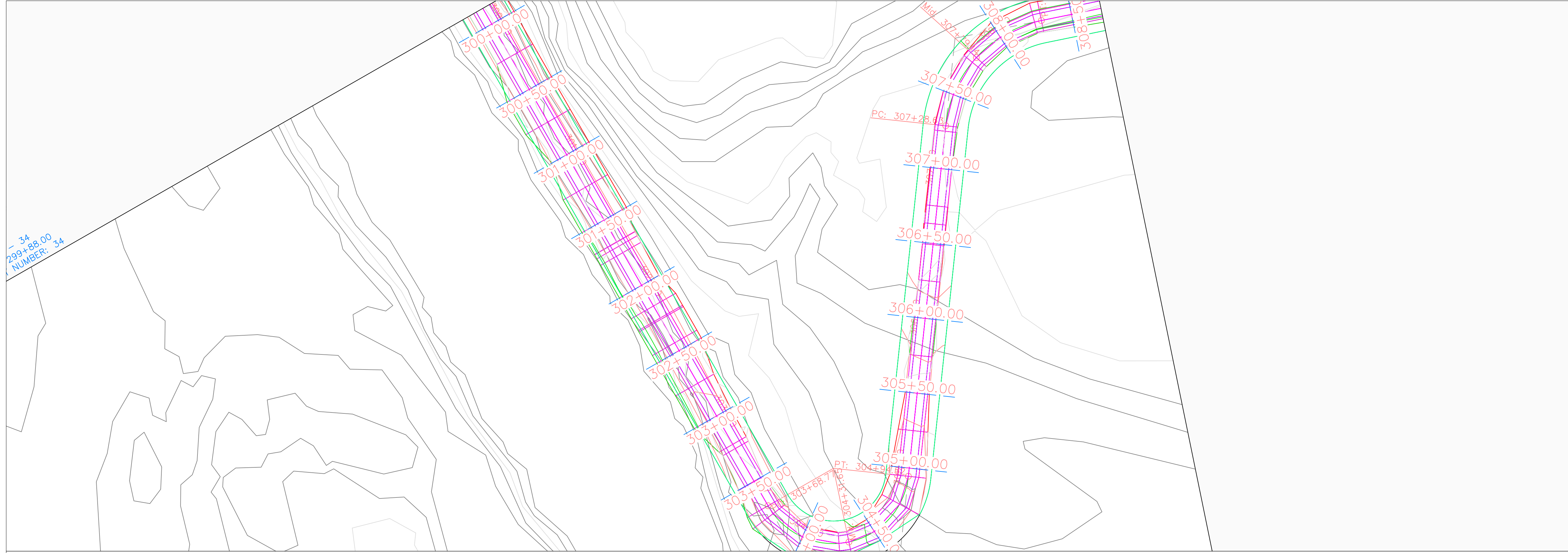


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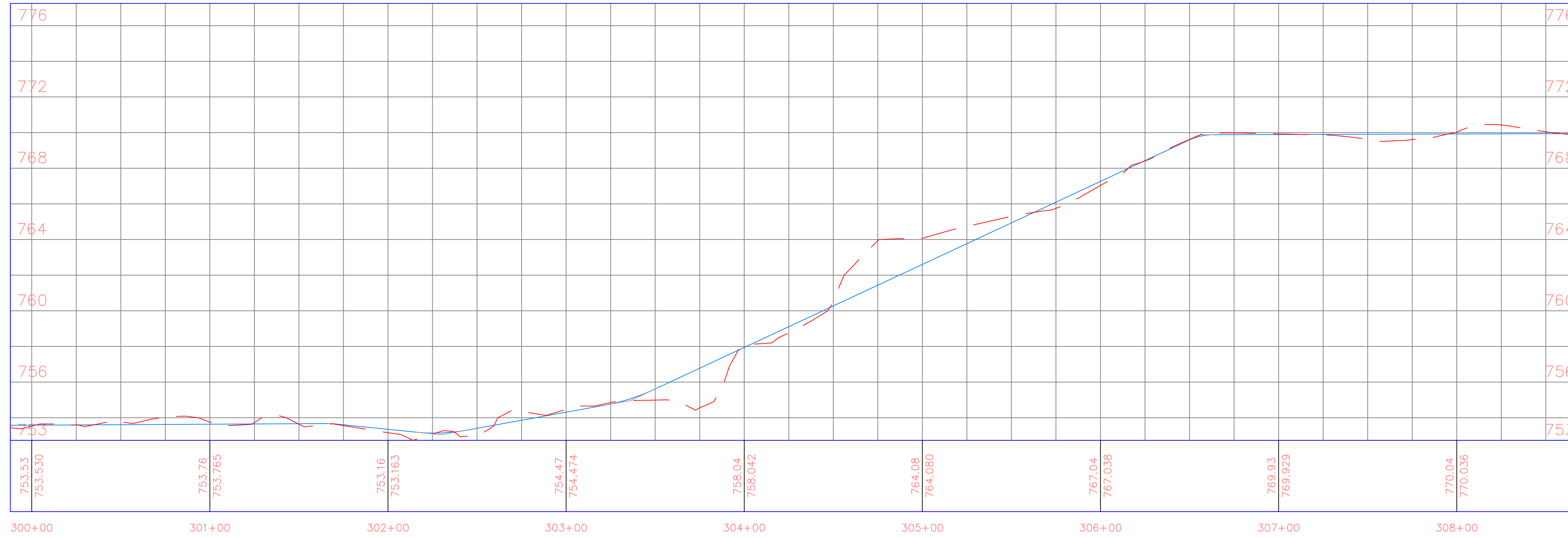
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DATE : 4/17/2020

DRAWN BY: cds

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THE UNIVERSITY OF IOWA
CIVIL AND ENVIRONMENTAL ENGINEERING

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IOWA CITY, IOWA 52242
PHONE: 319.335.5647
FAX: 319.335.5660
EMAIL: civil-hawks@iowa.edu



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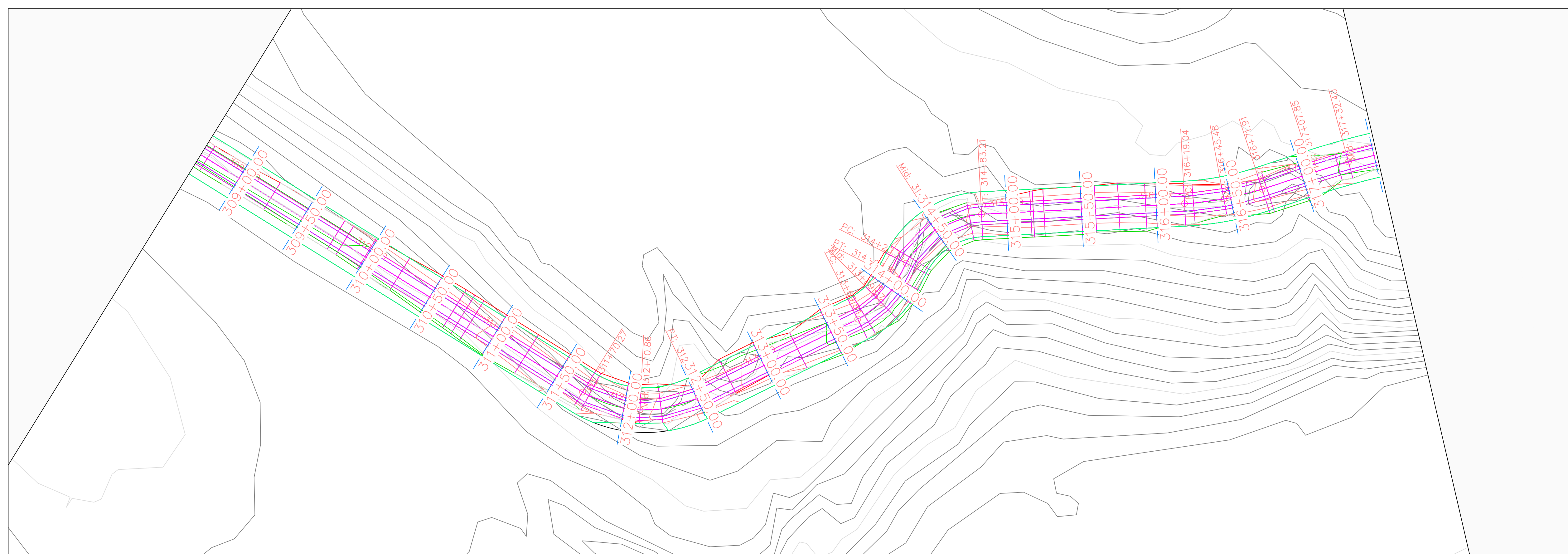
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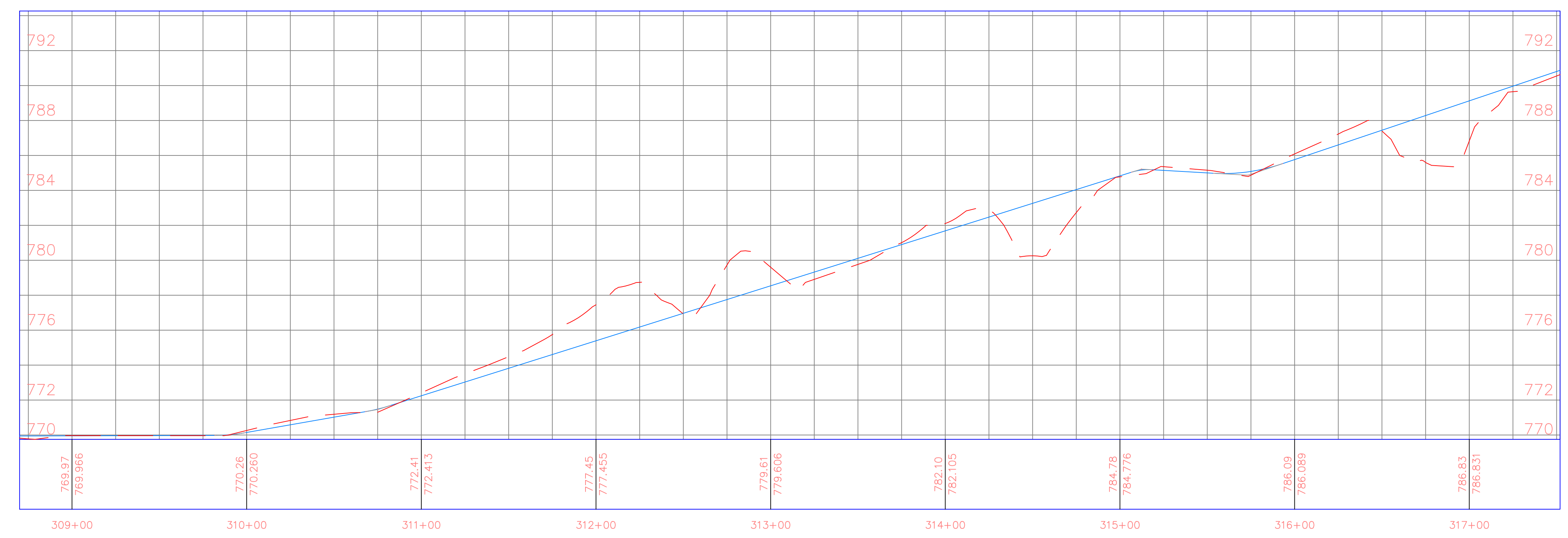
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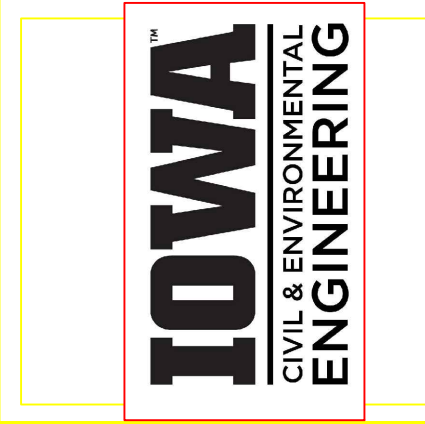


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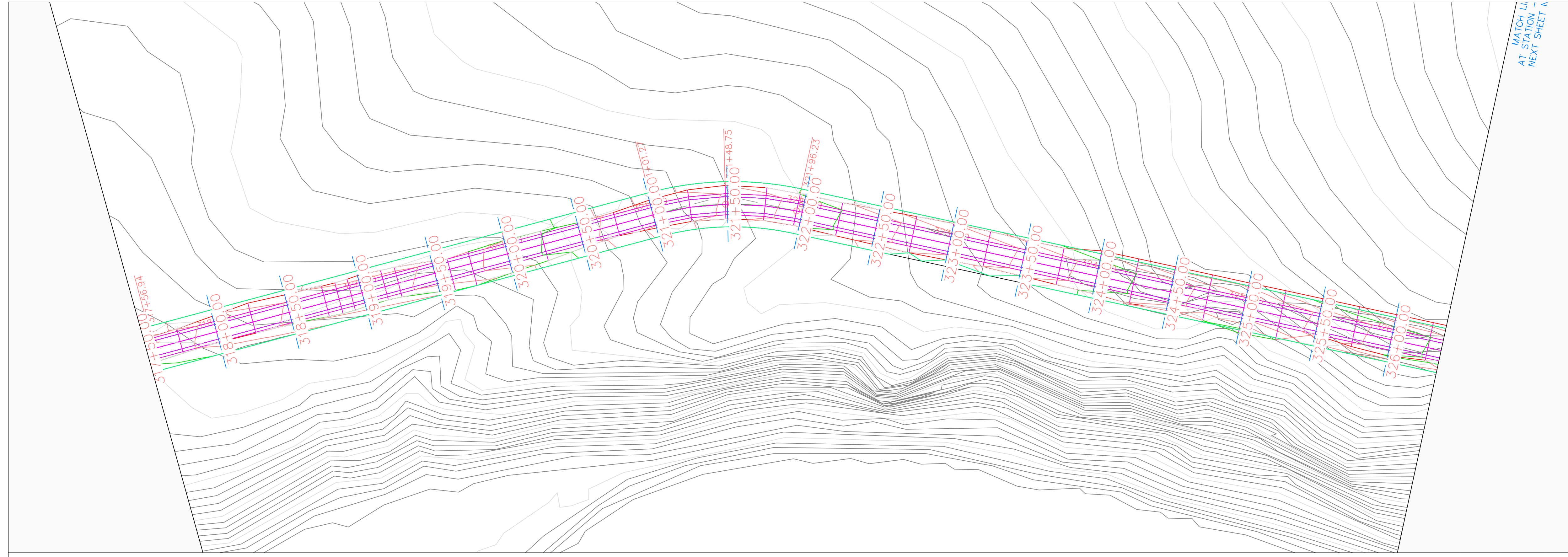
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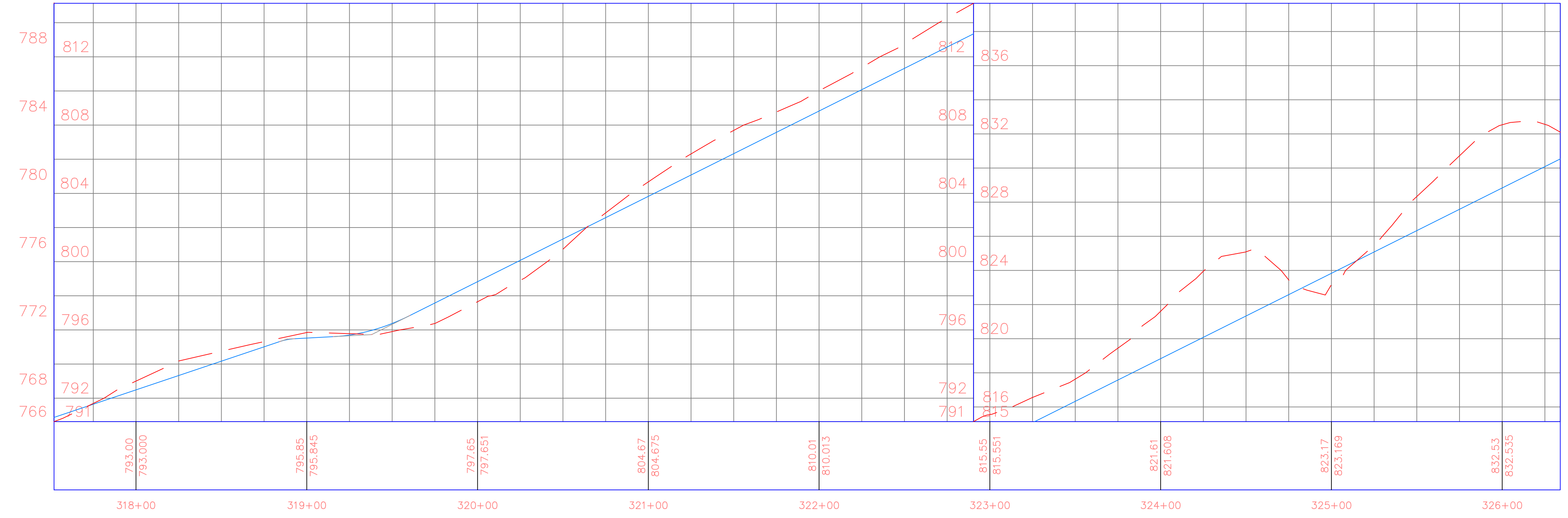
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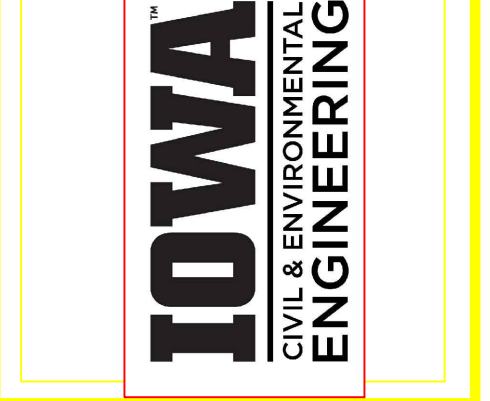
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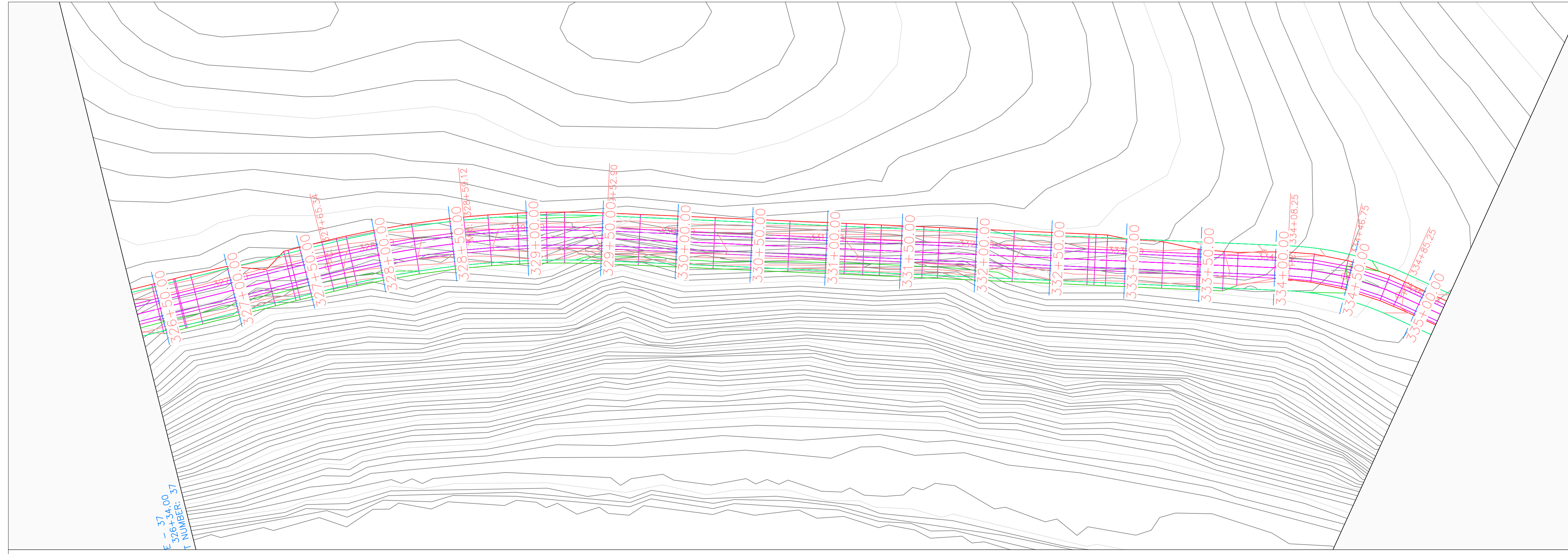
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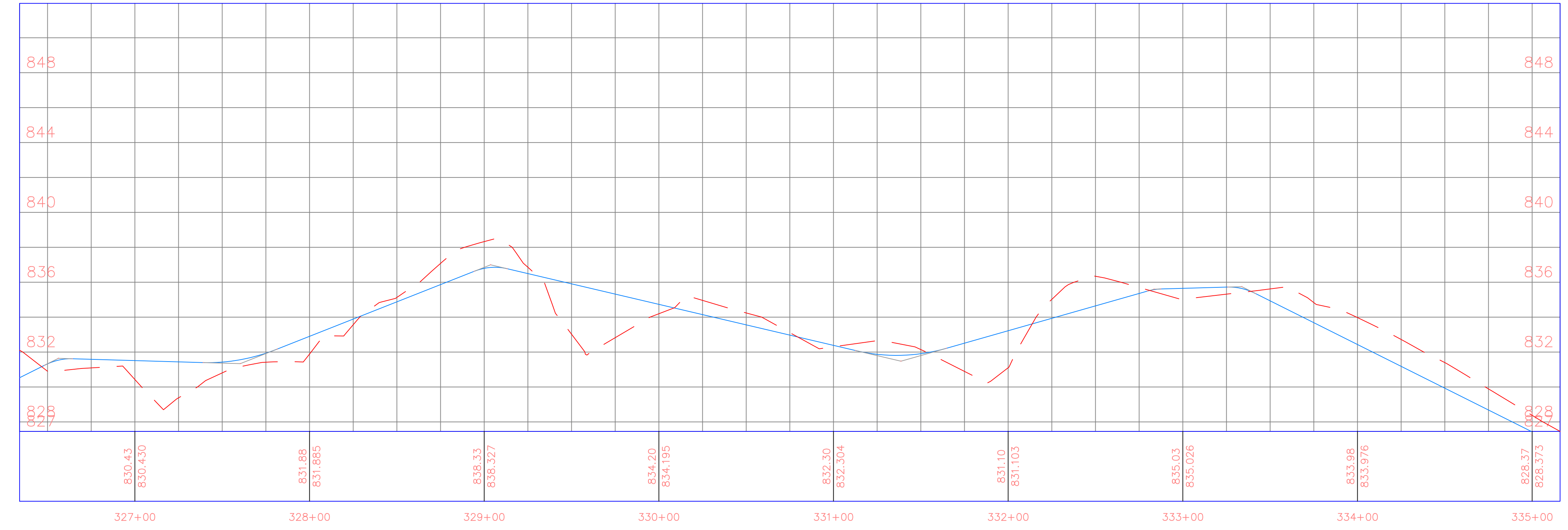
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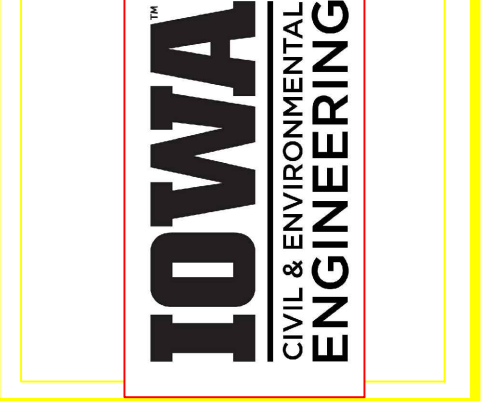


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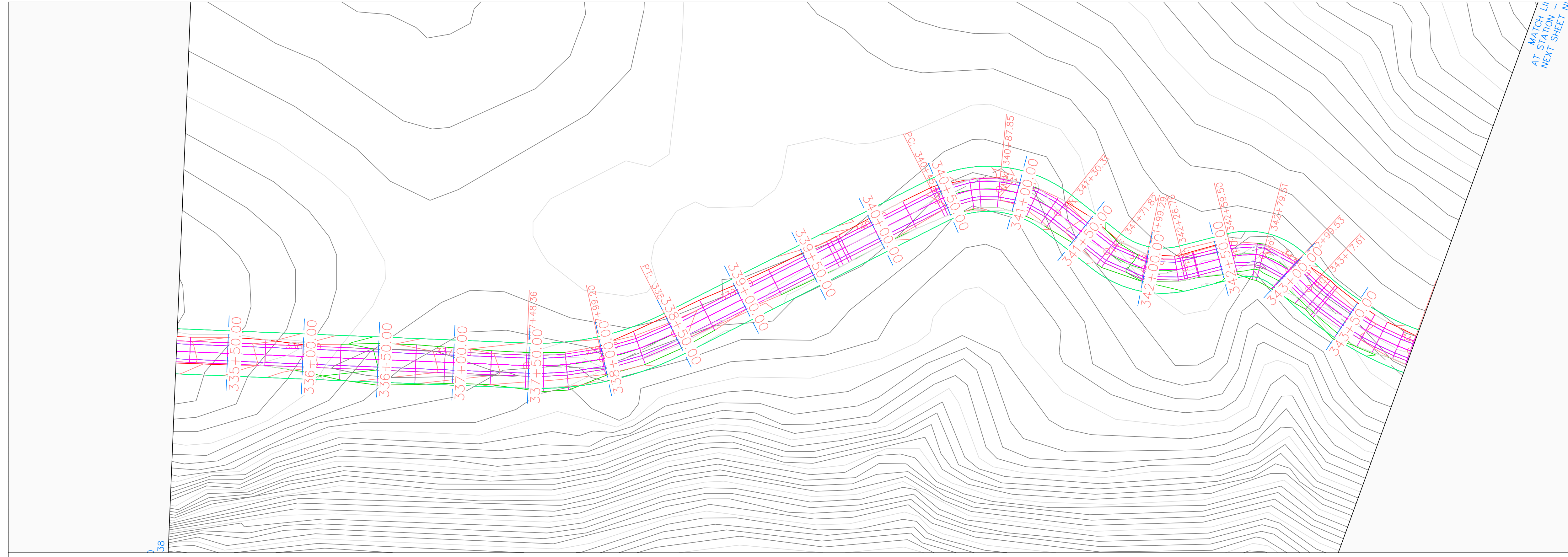
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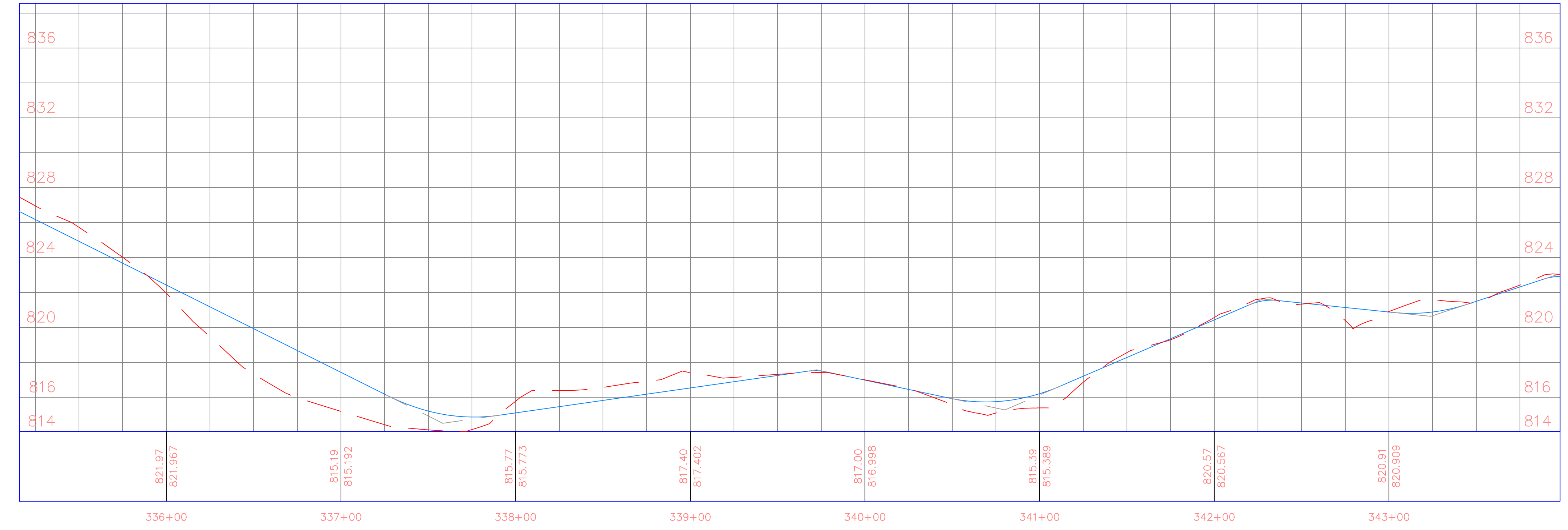
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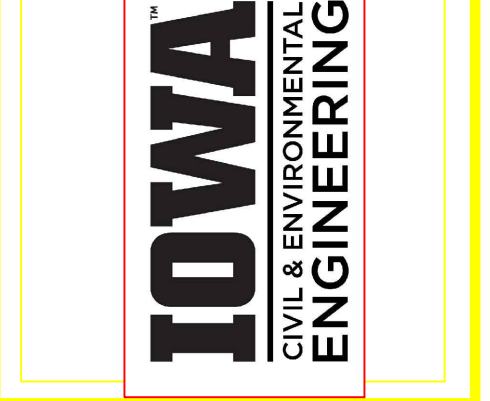


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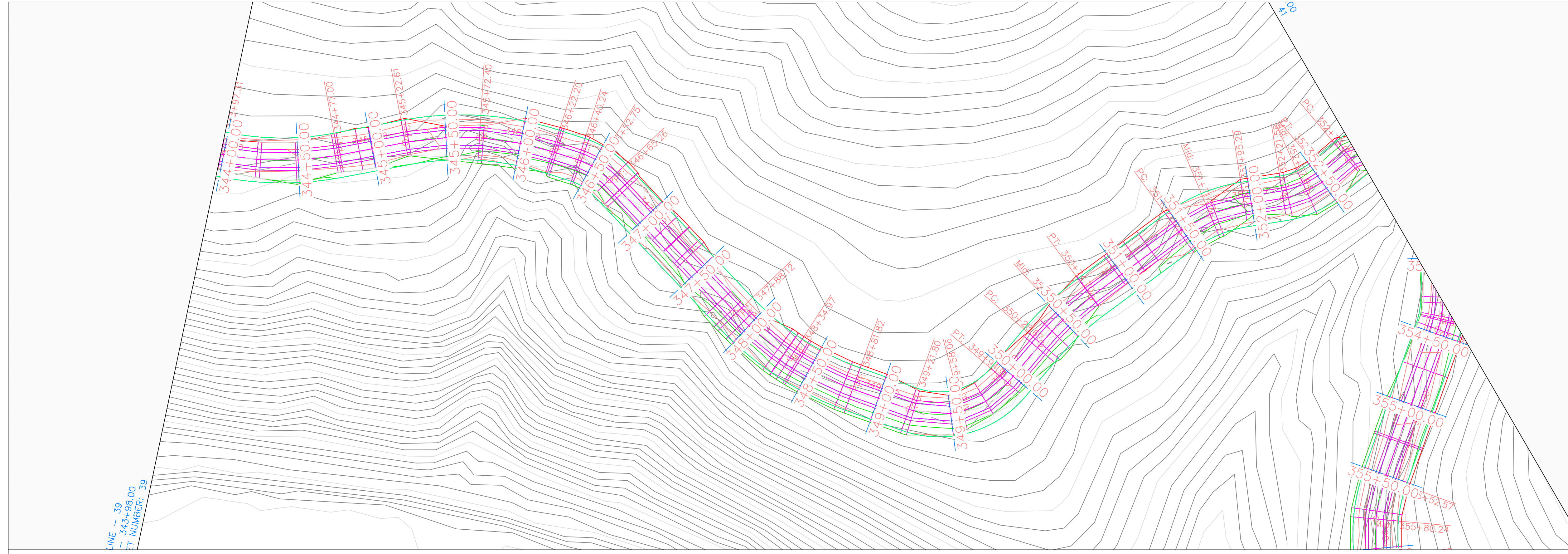
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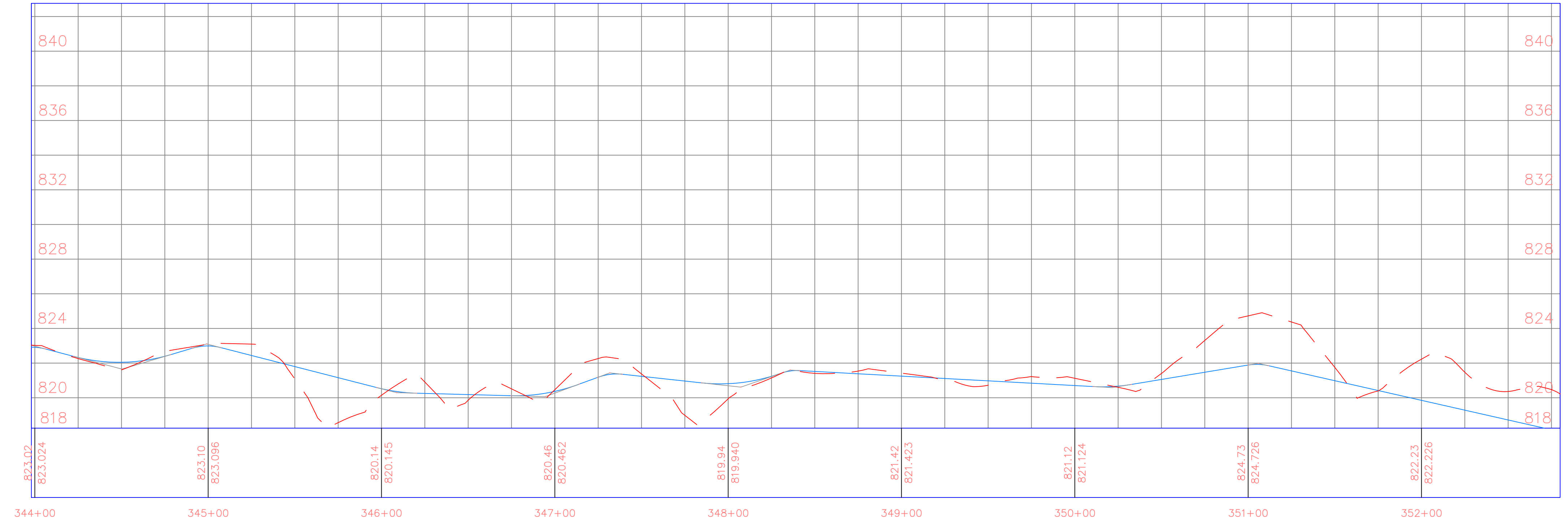
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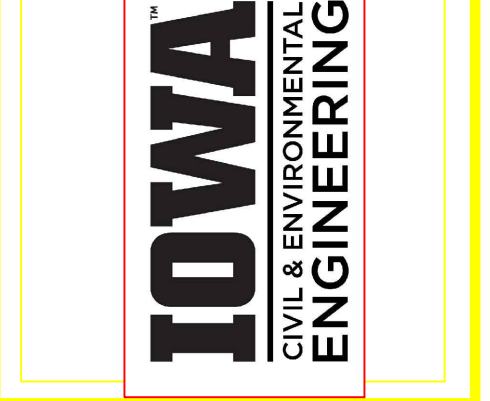
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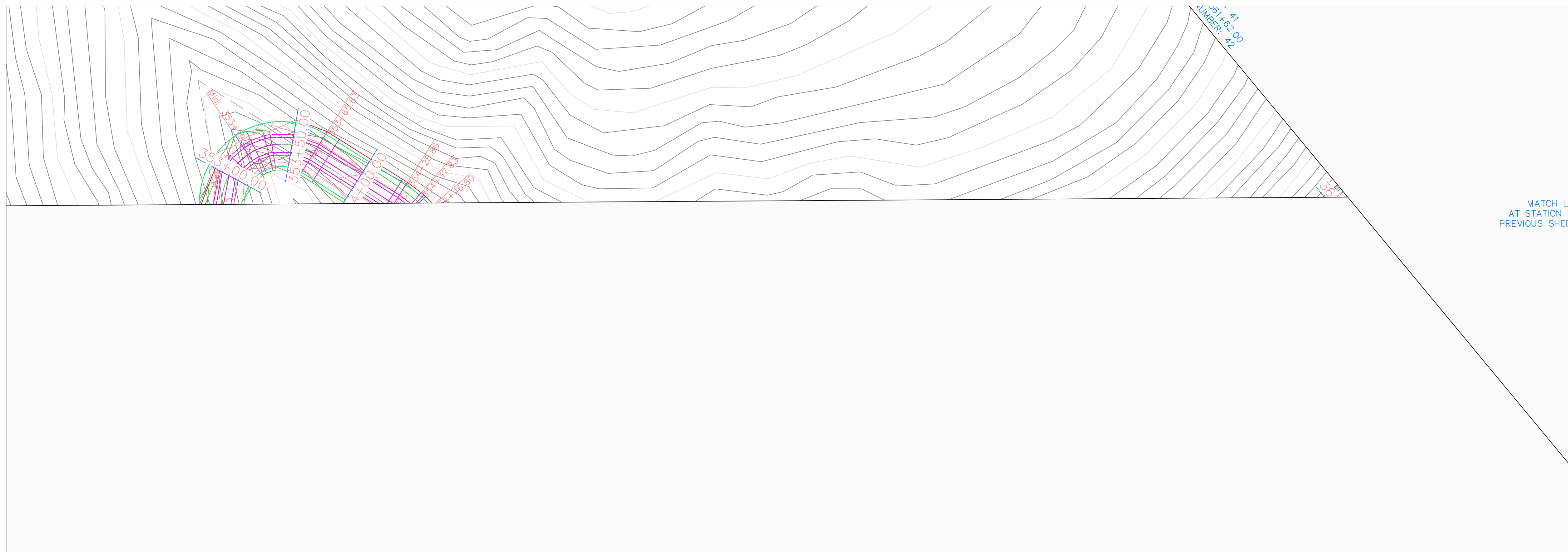
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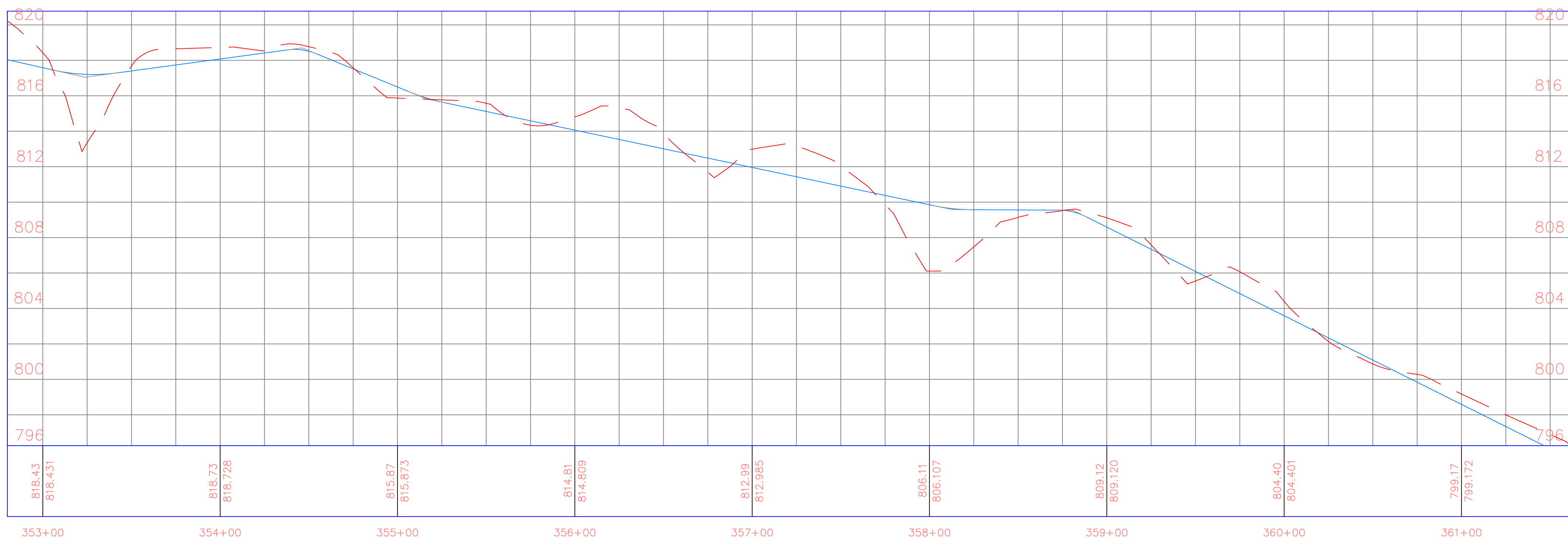
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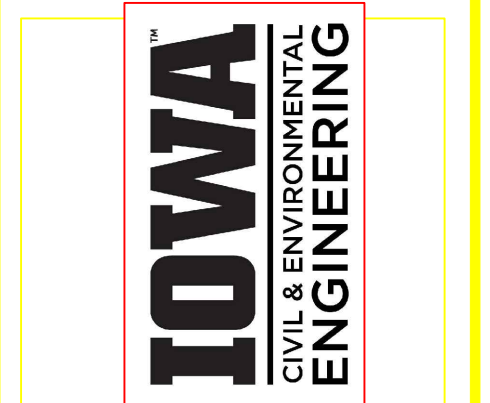


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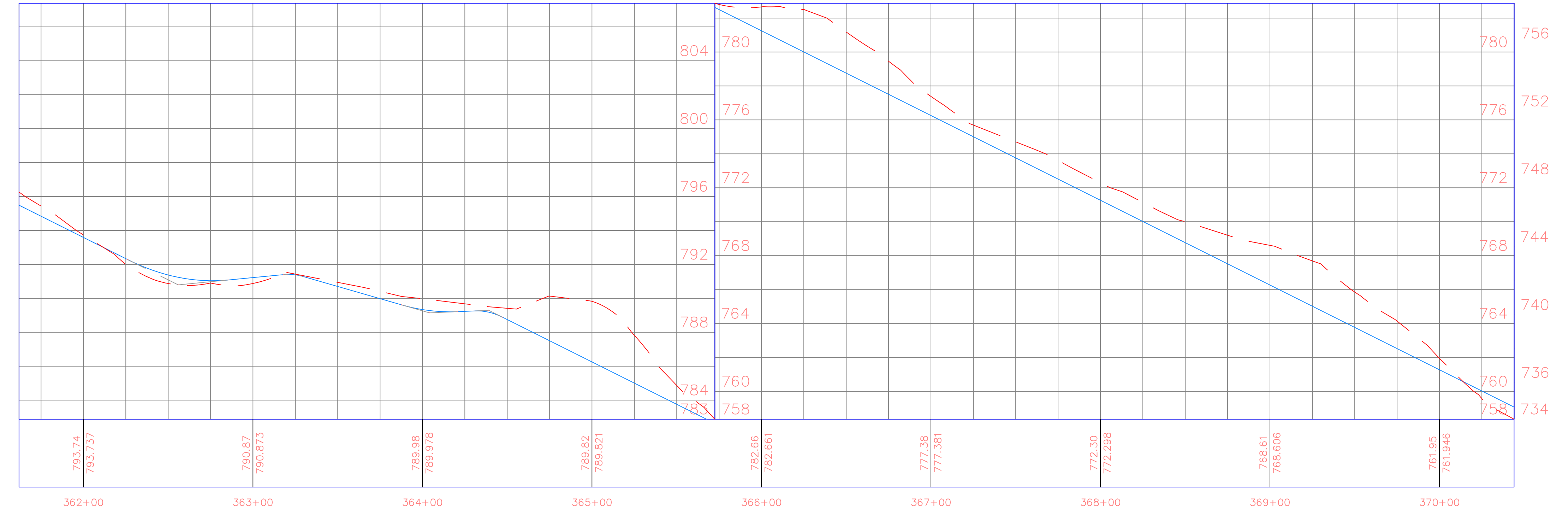
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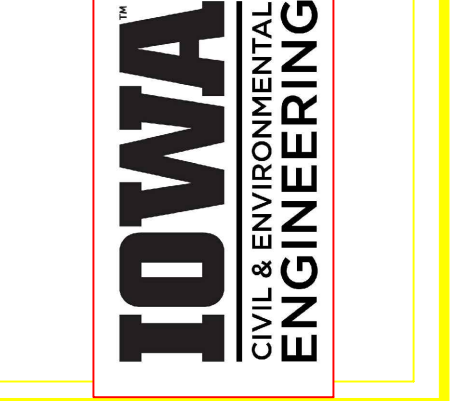
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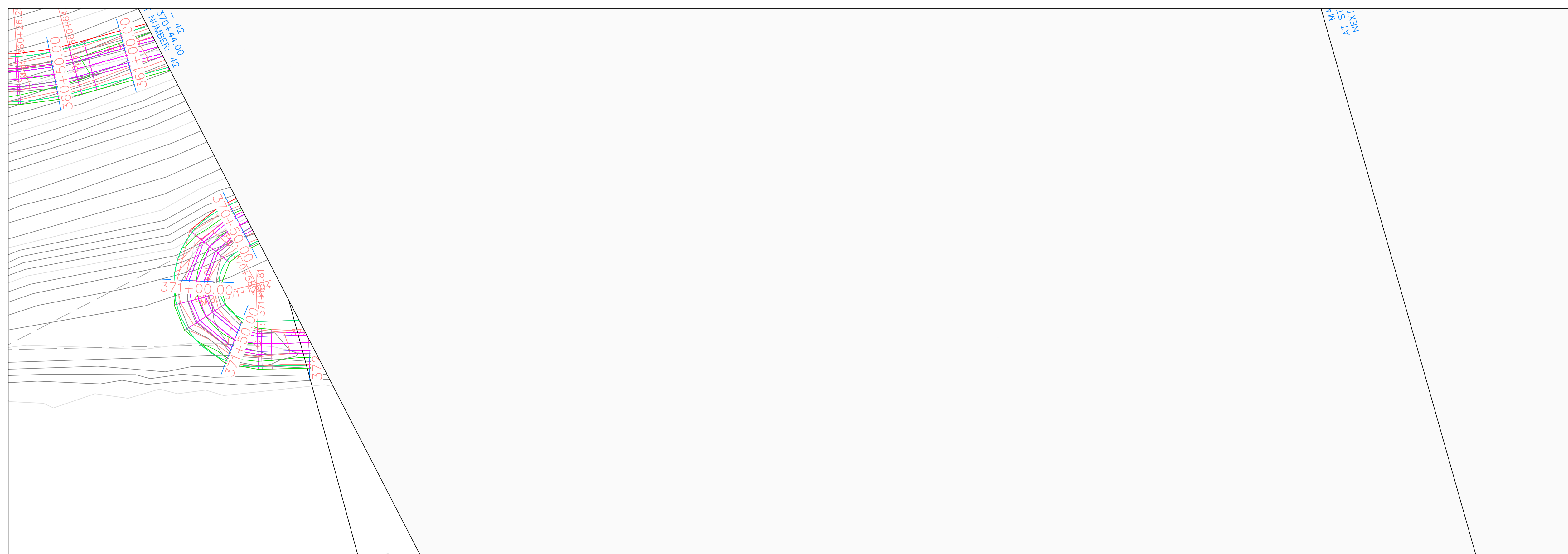
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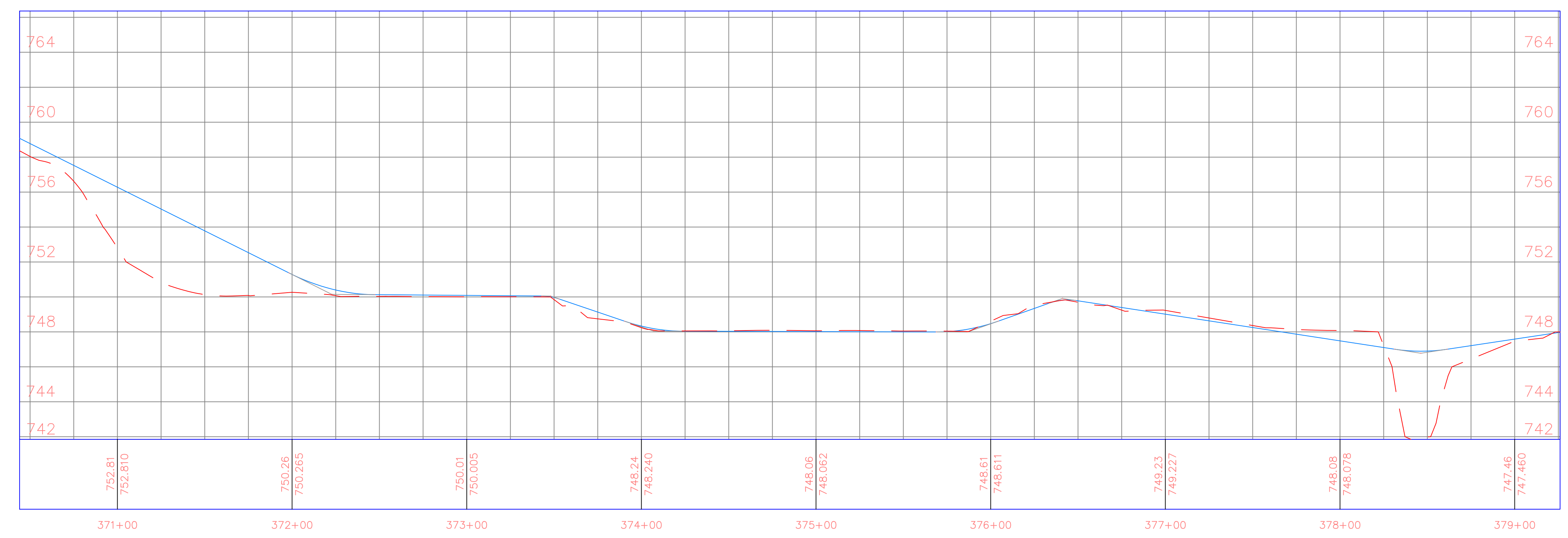
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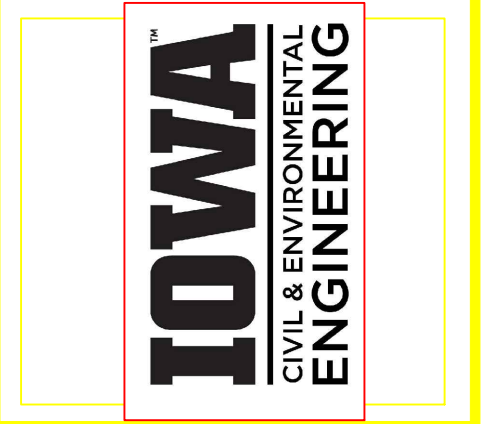


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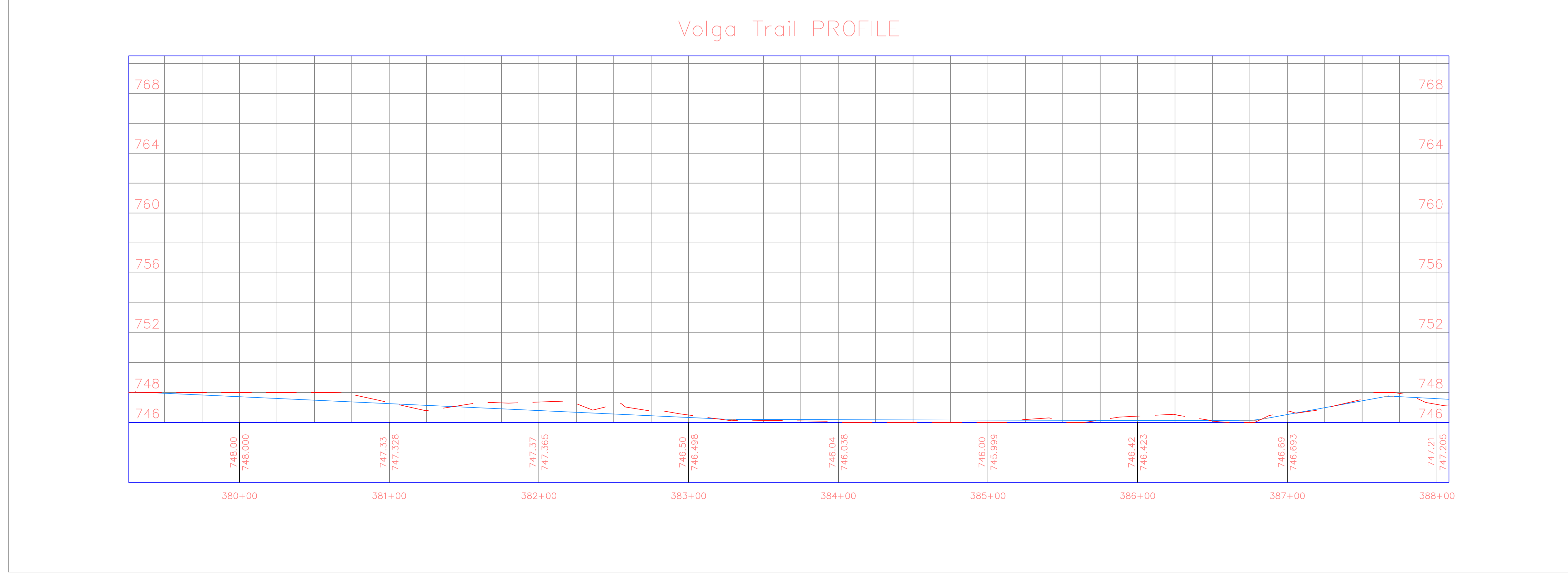
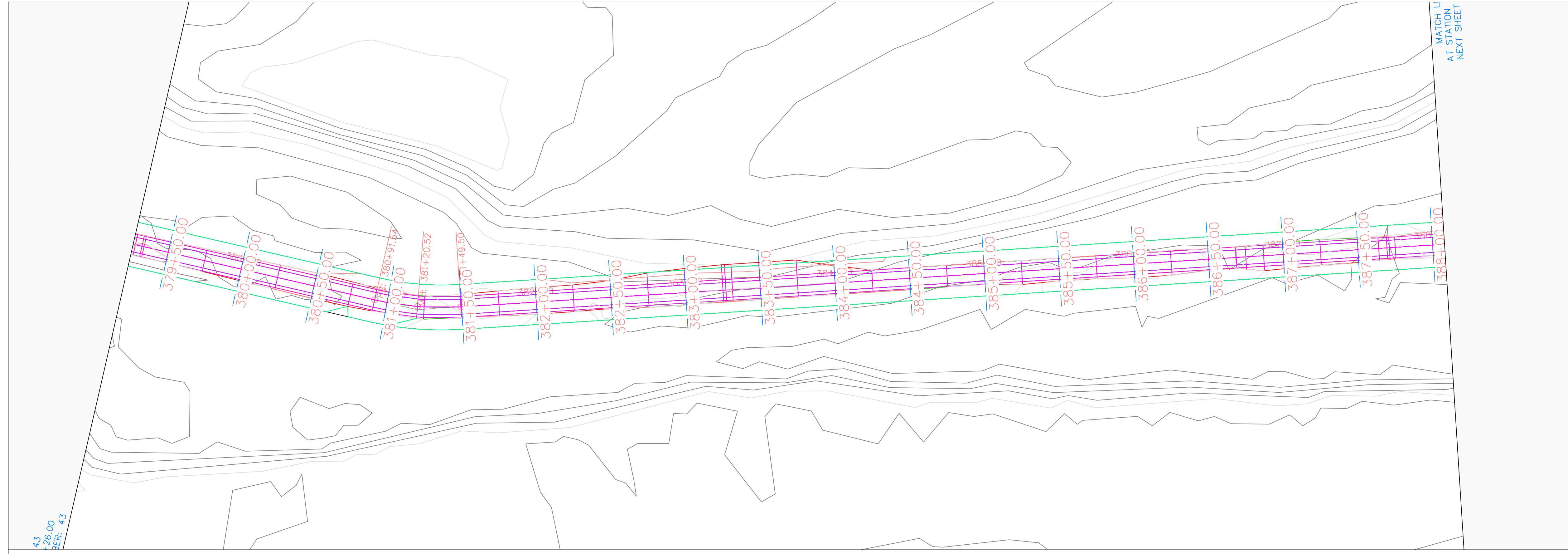


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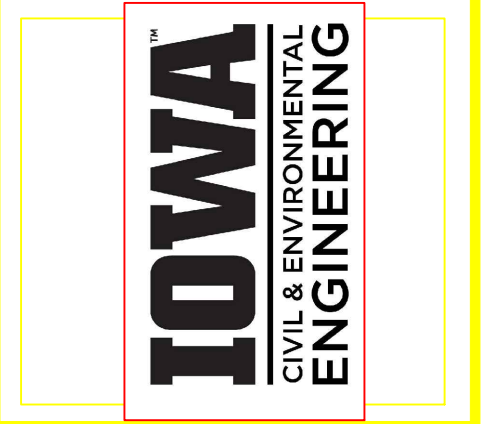
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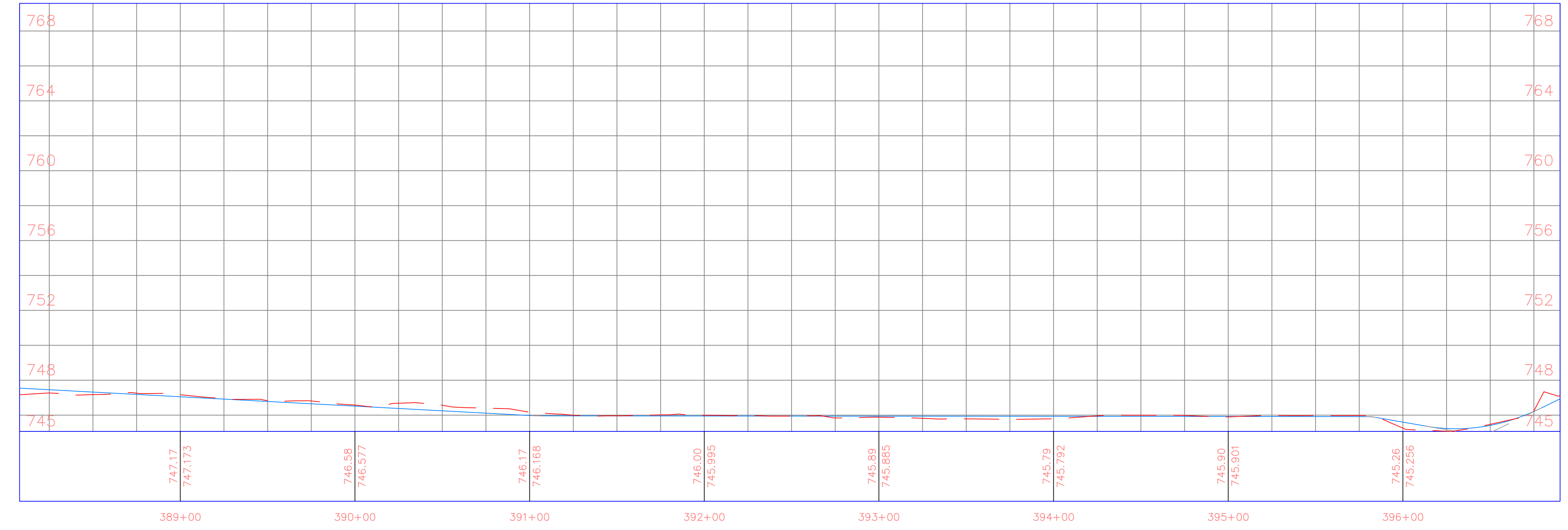
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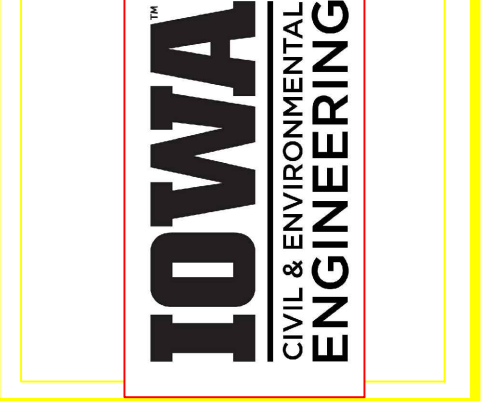


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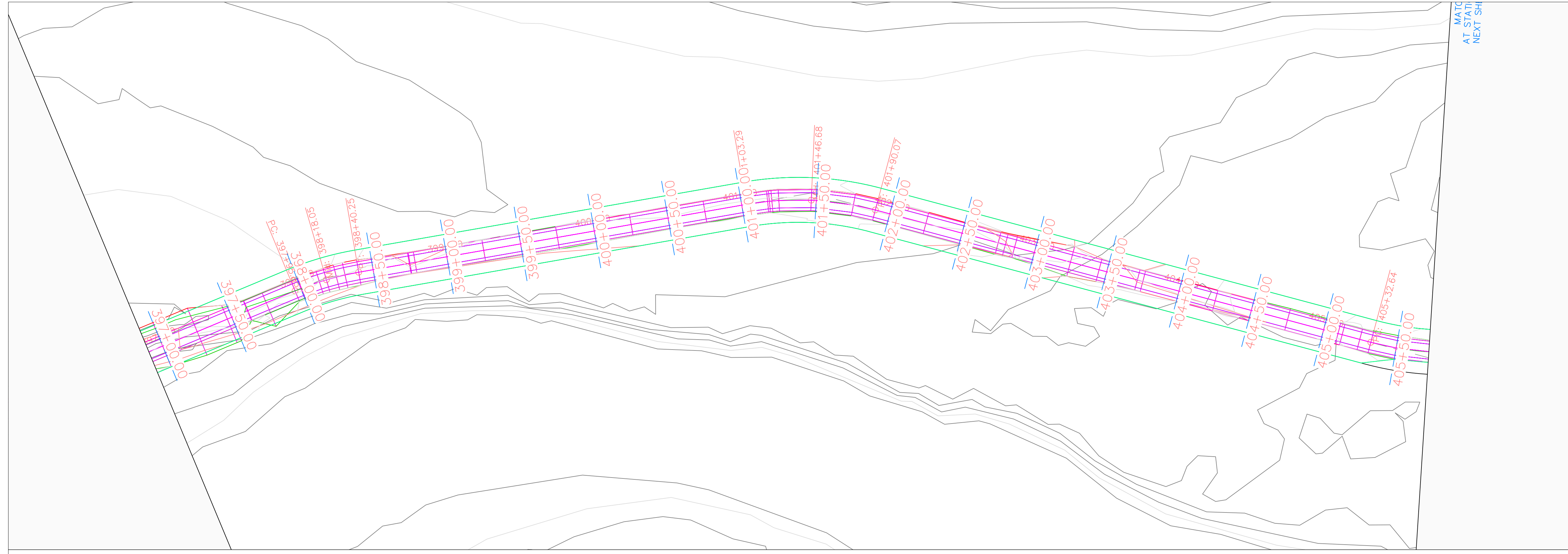
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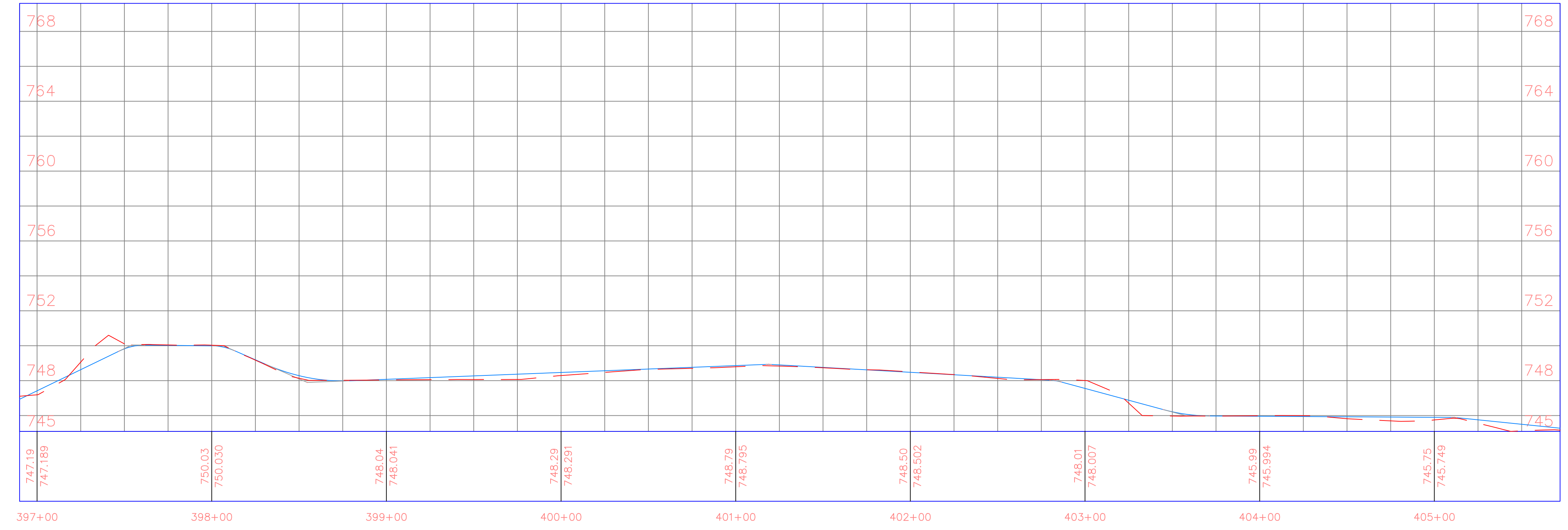
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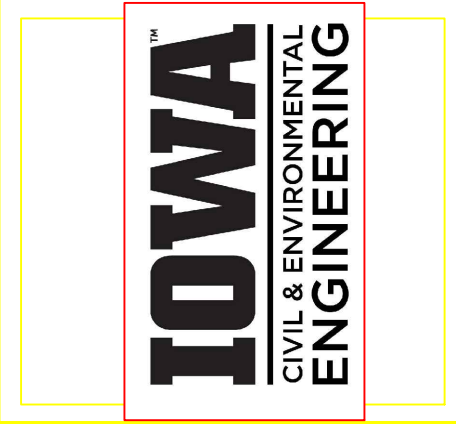


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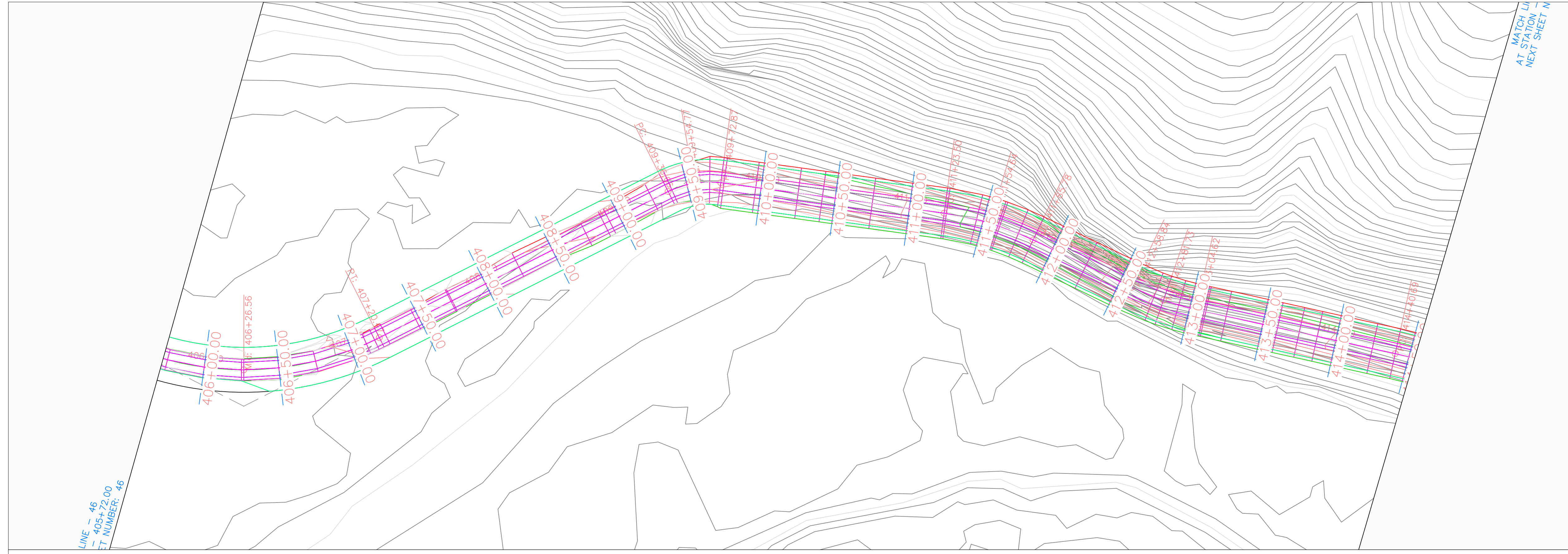
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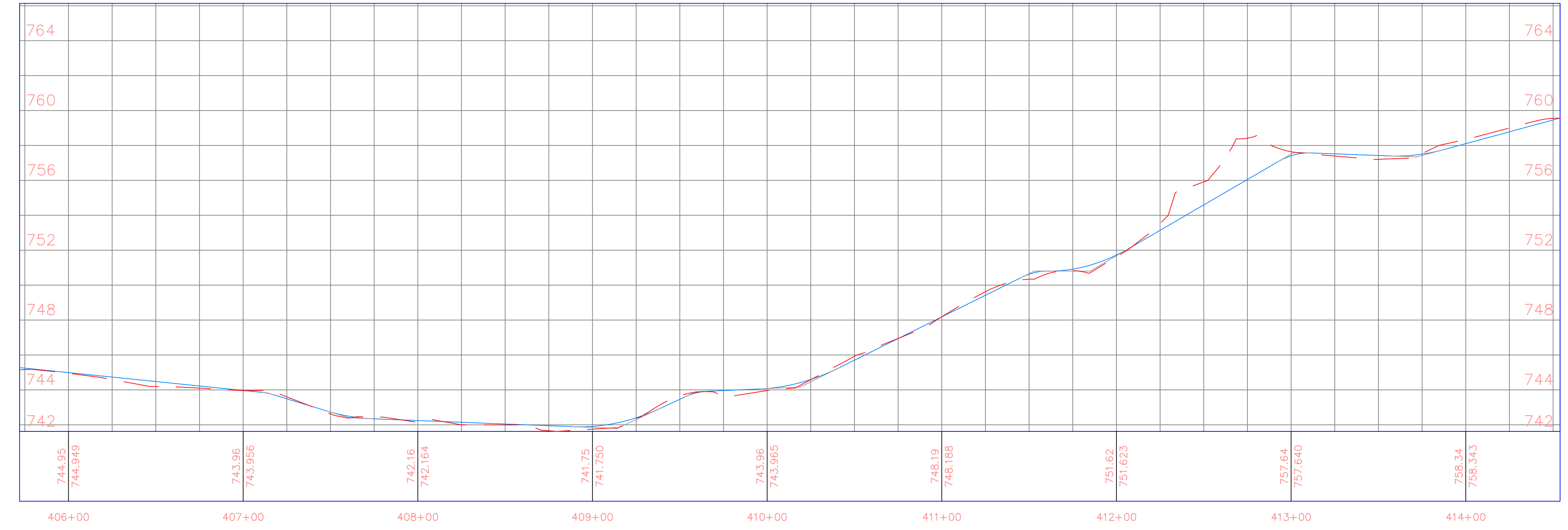
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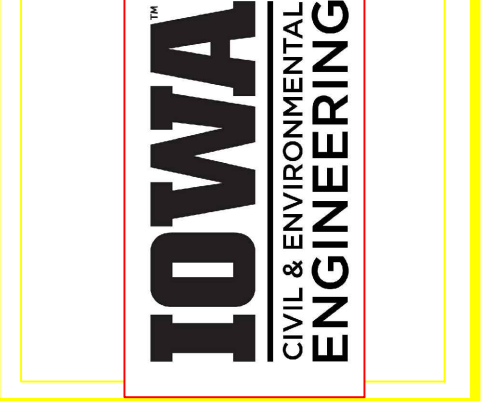


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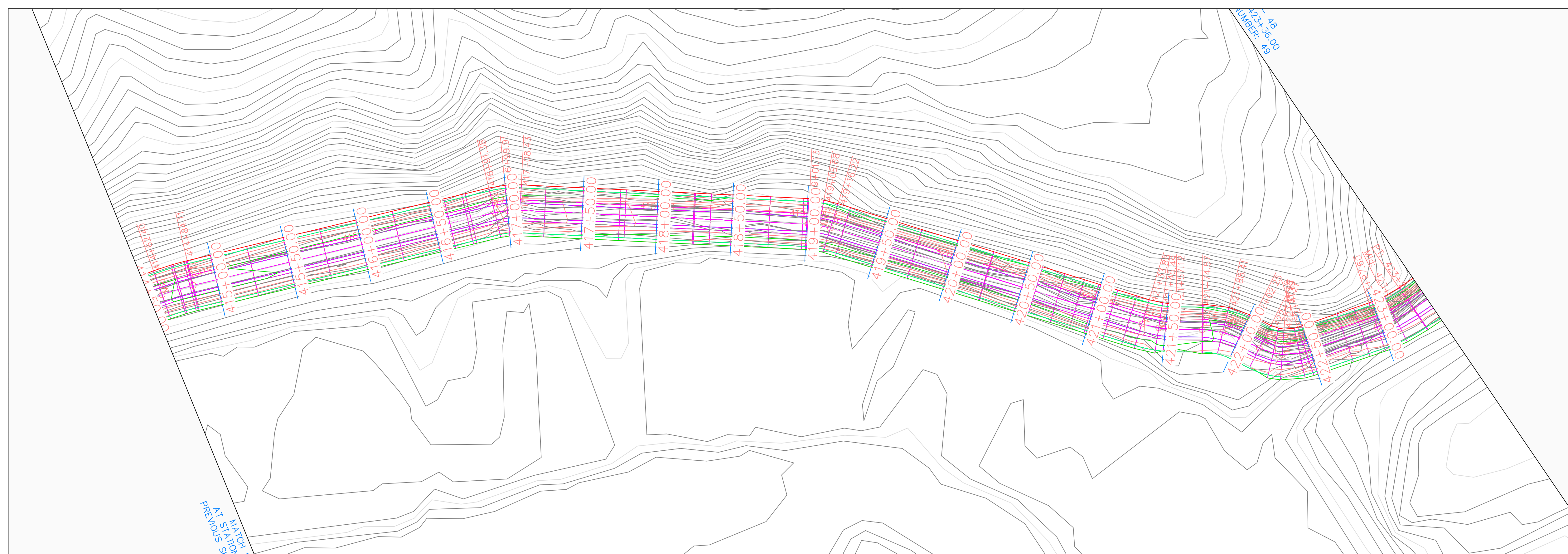


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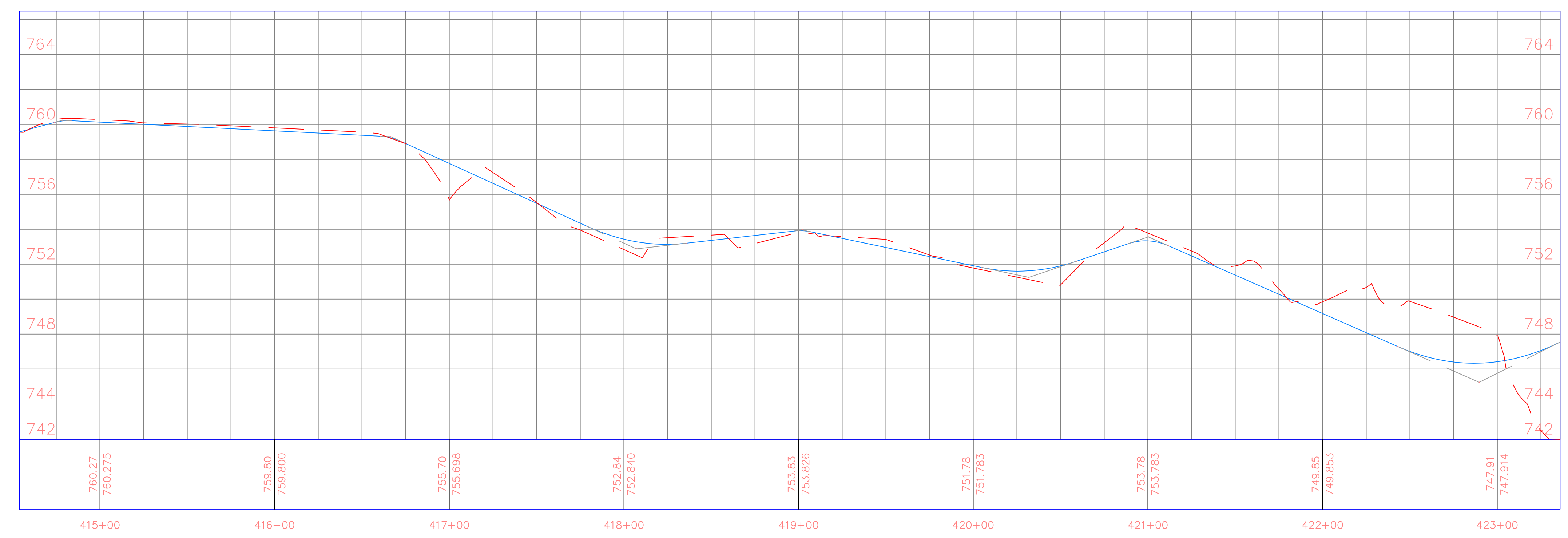
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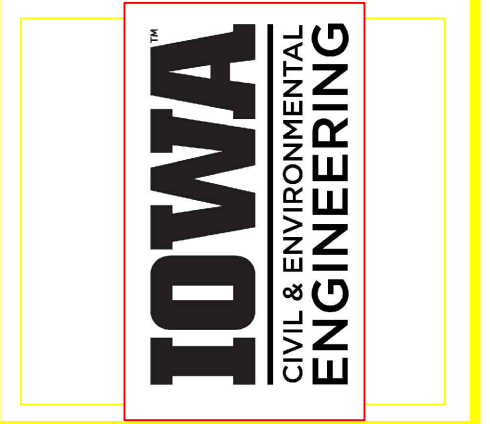


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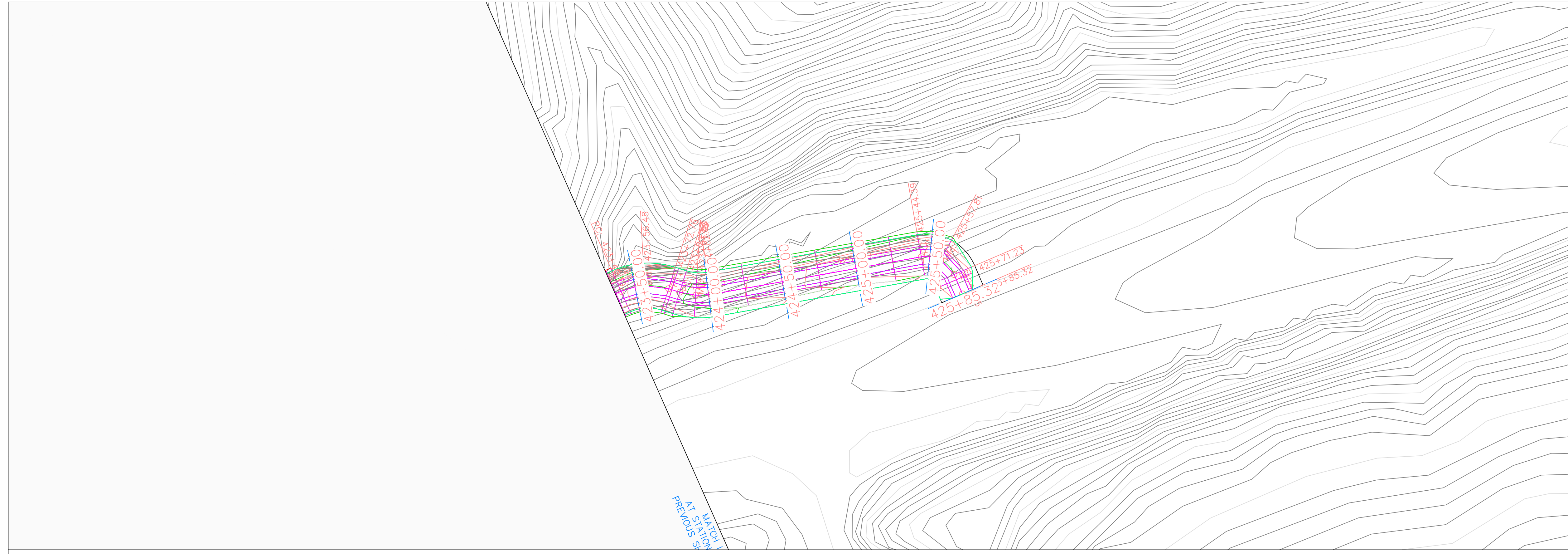


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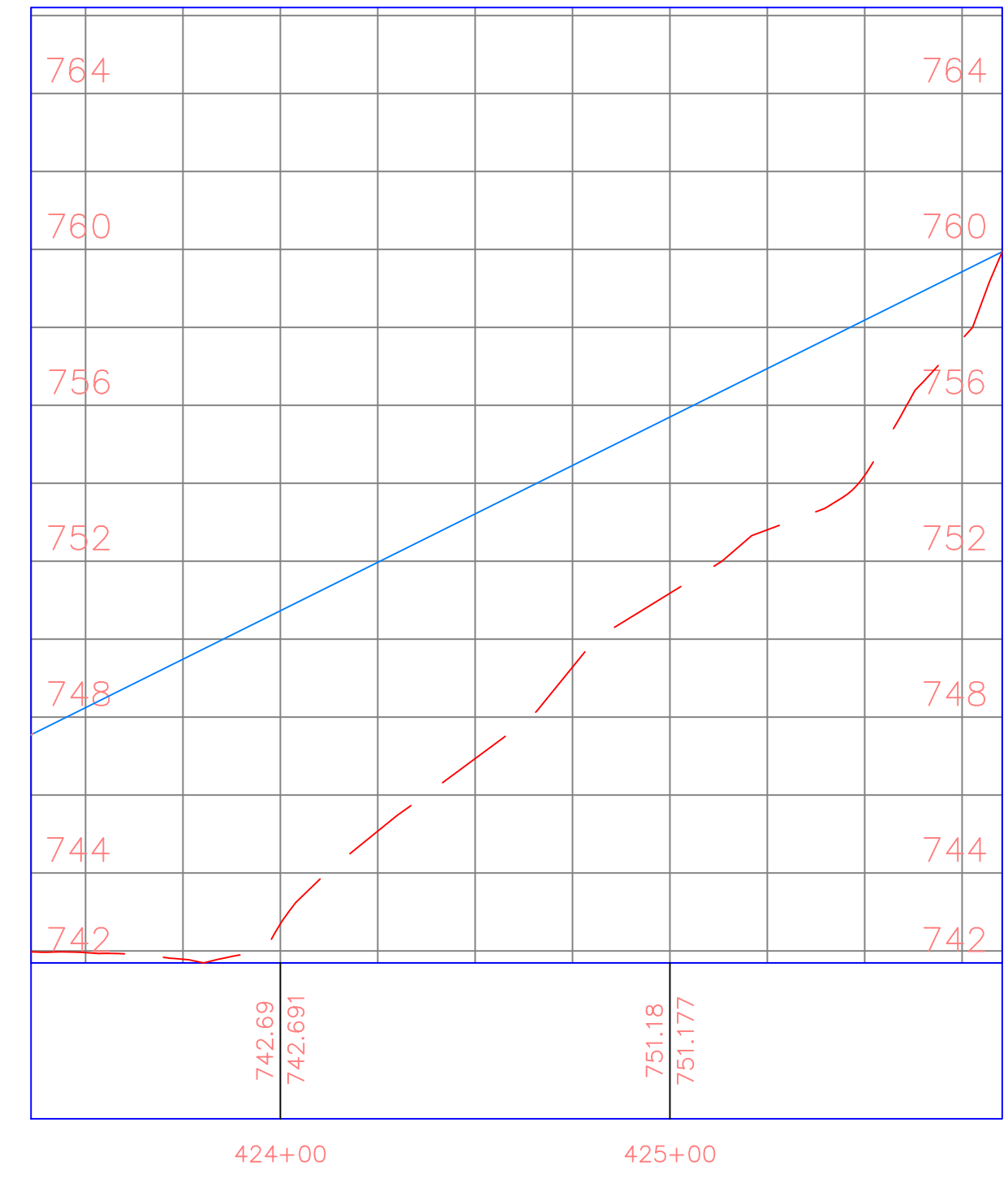
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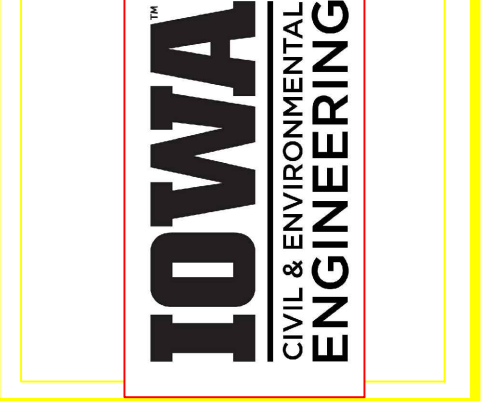


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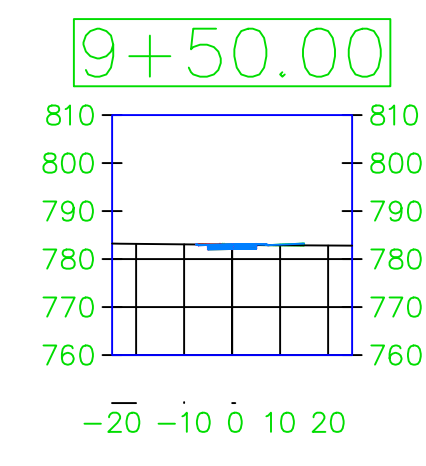
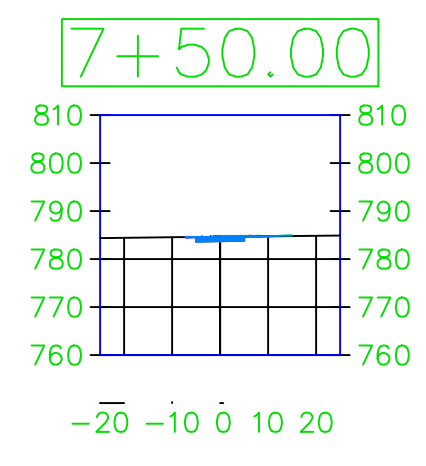
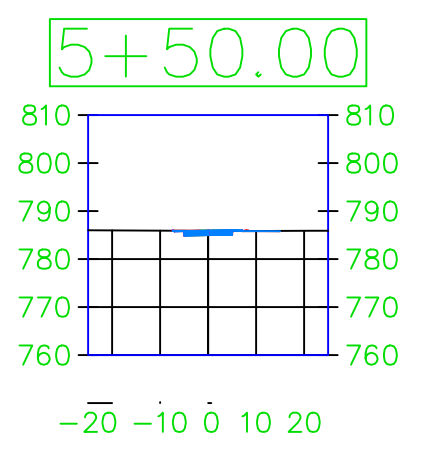
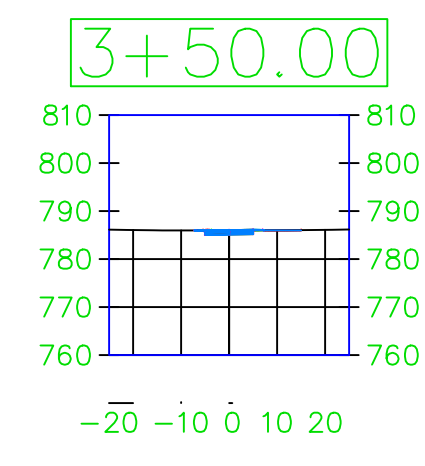
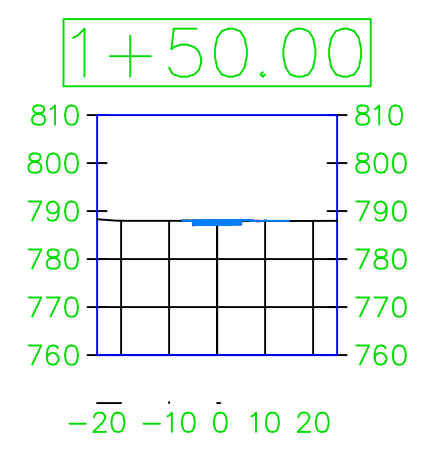
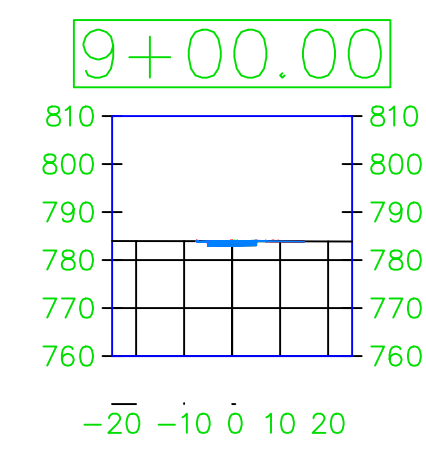
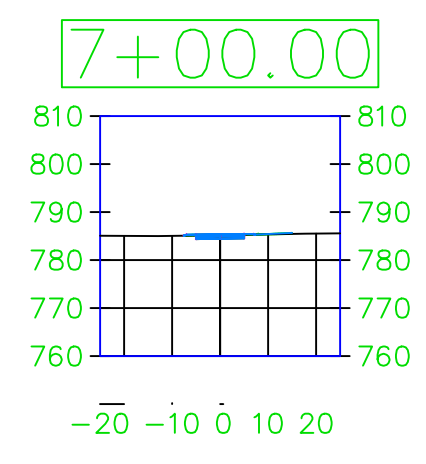
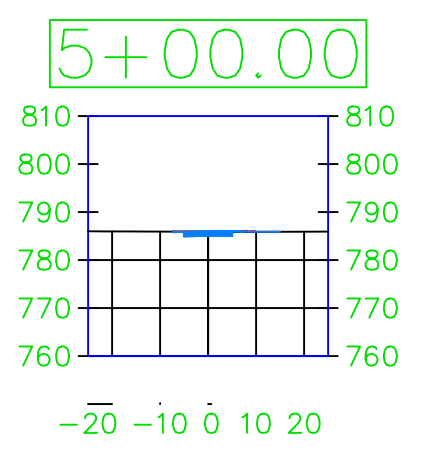
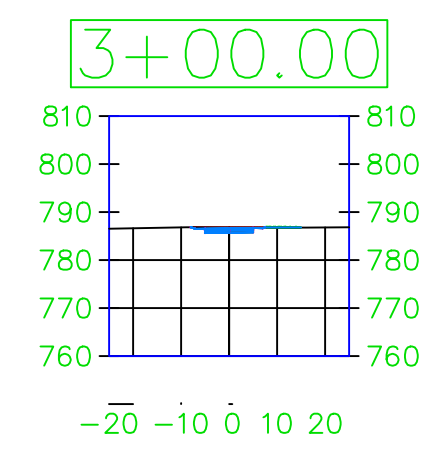
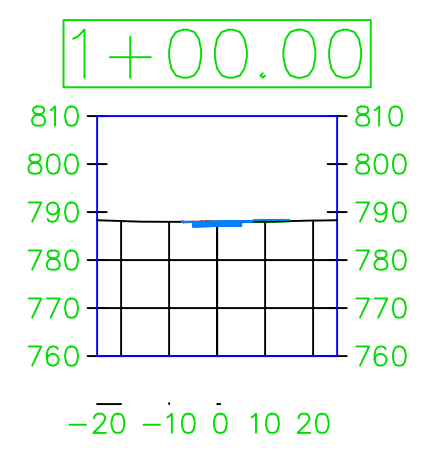
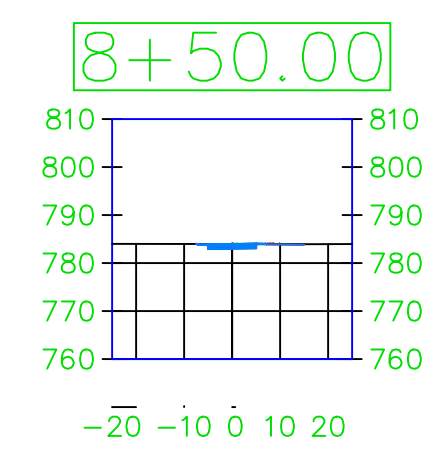
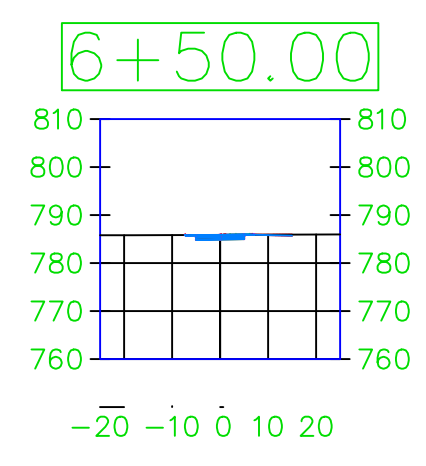
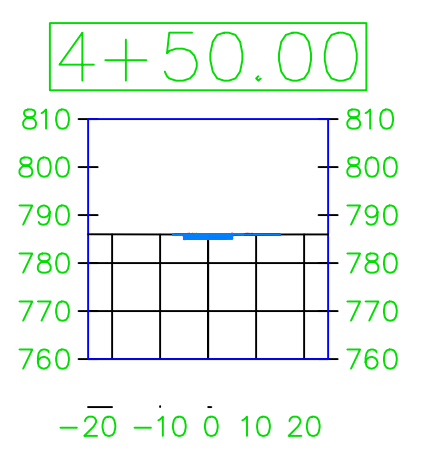
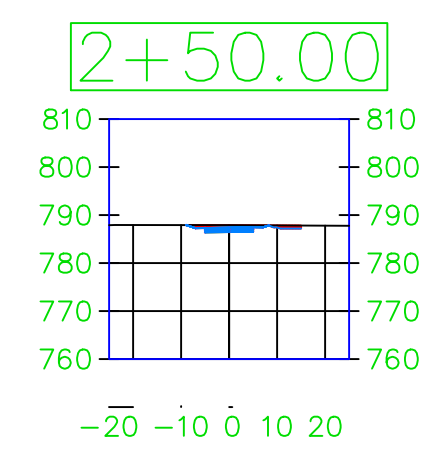
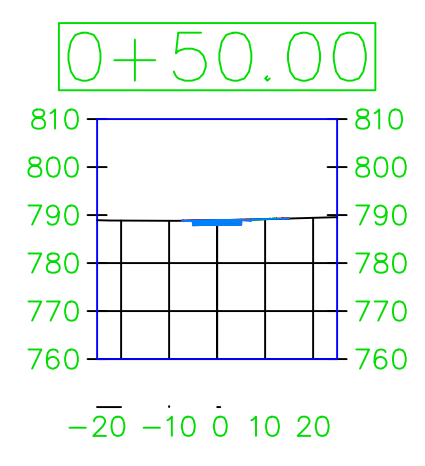
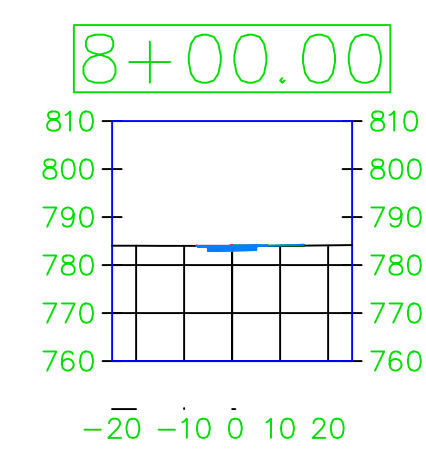
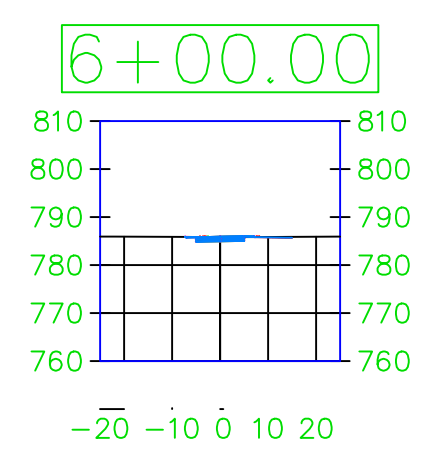
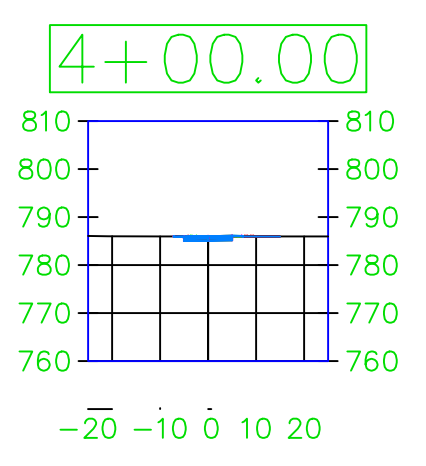
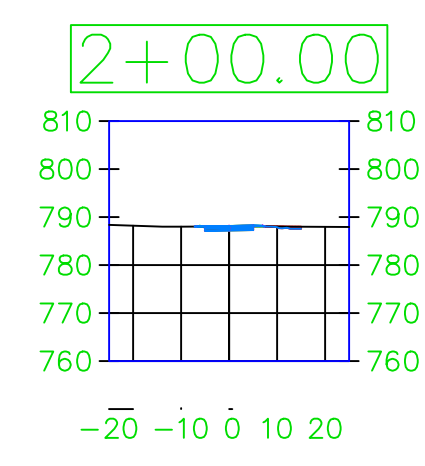
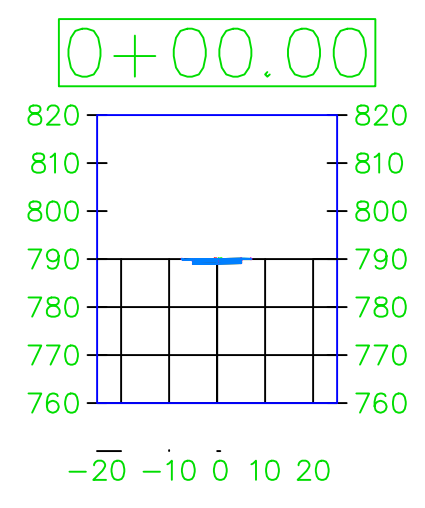


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Volga Trail

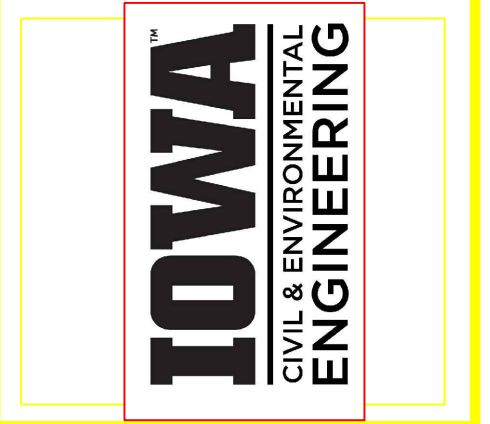
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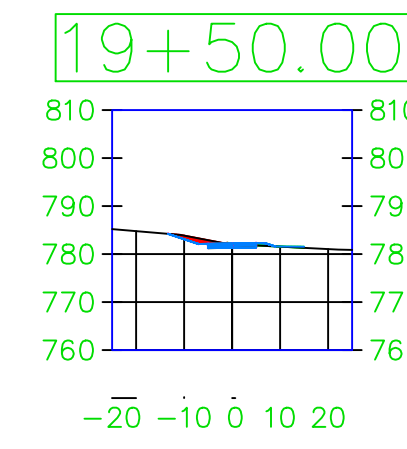
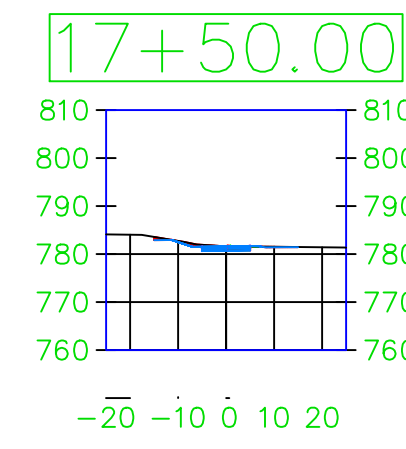
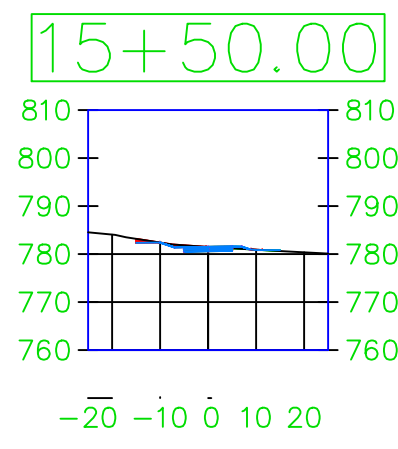
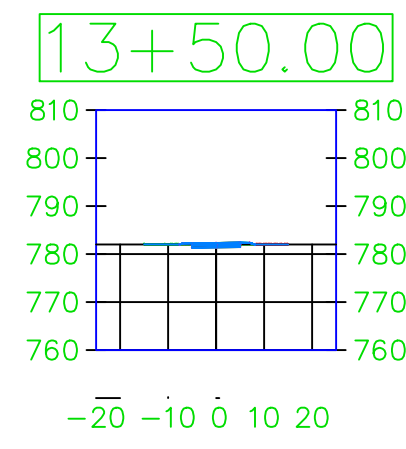
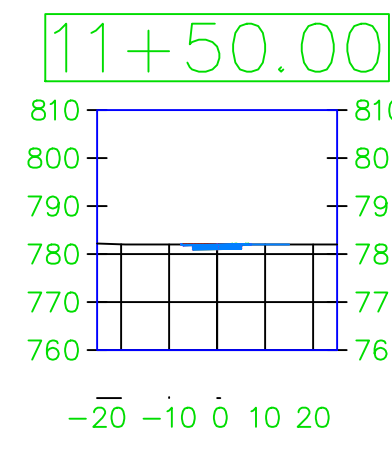
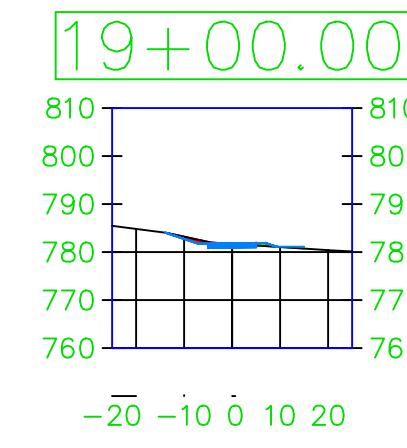
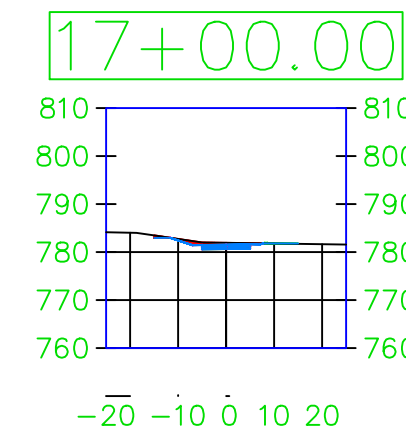
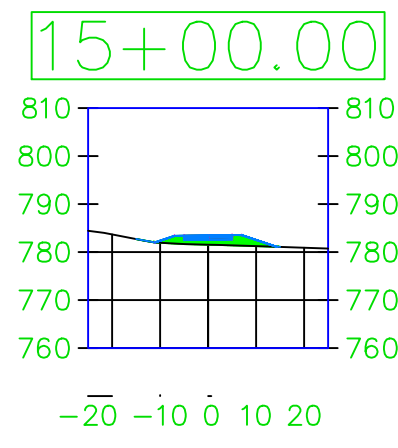
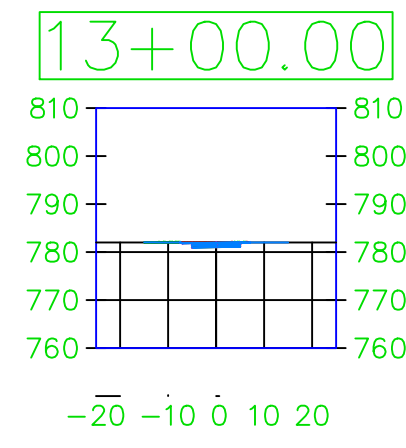
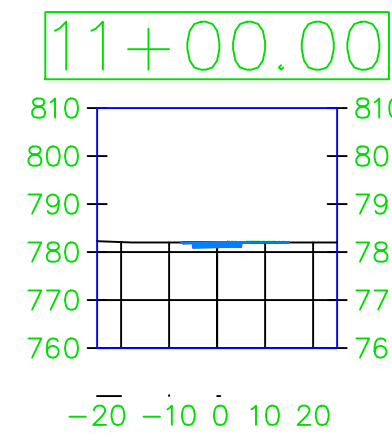
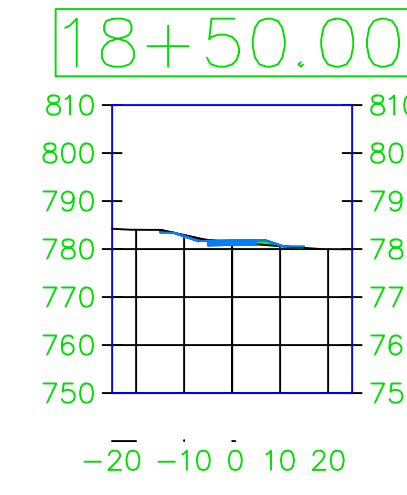
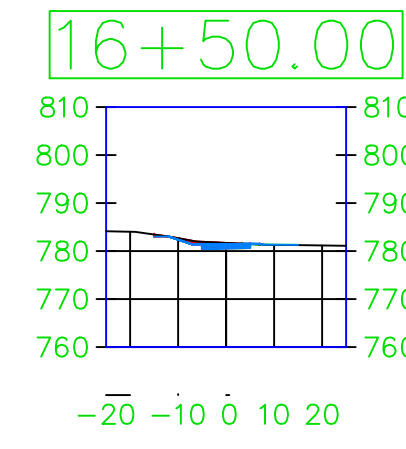
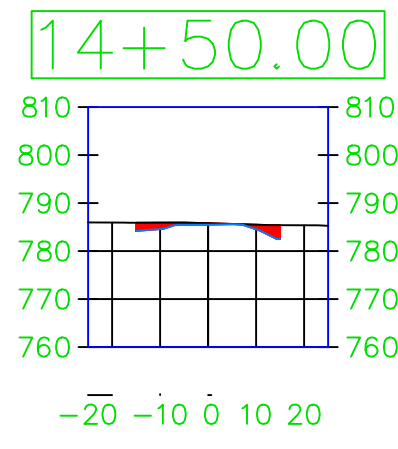
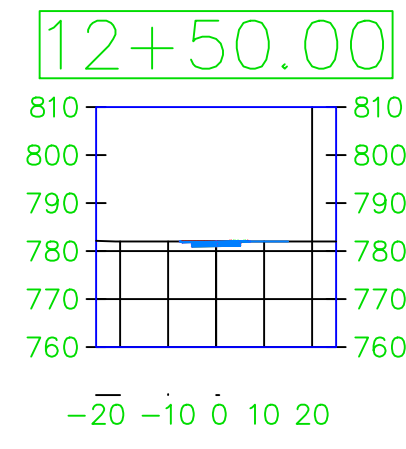
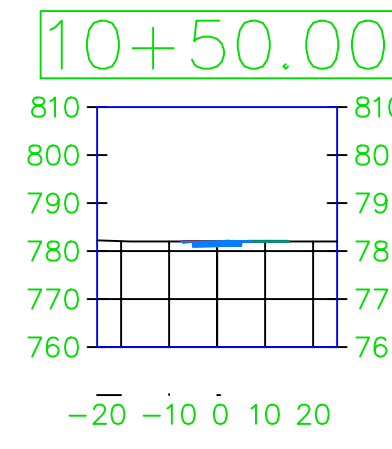
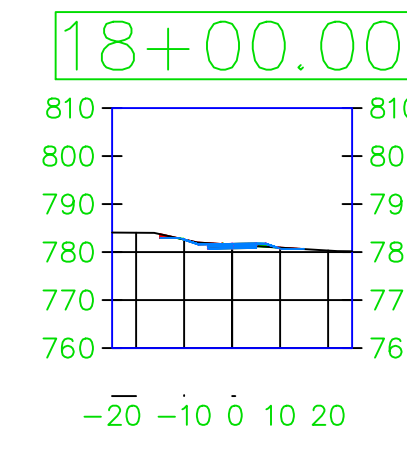
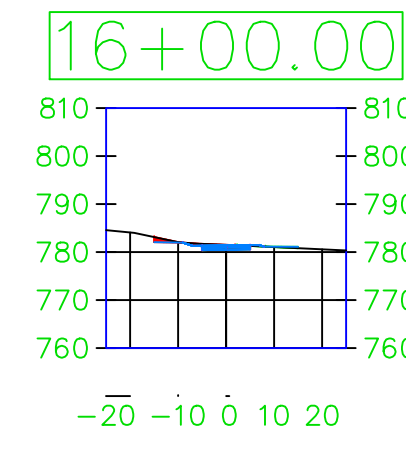
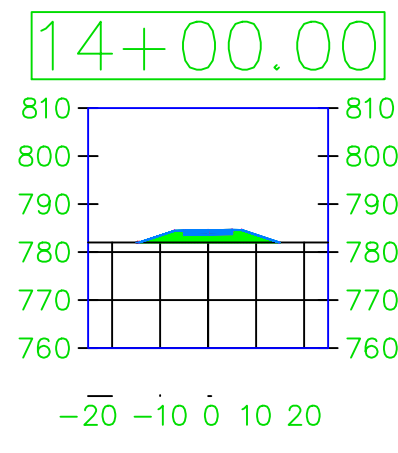
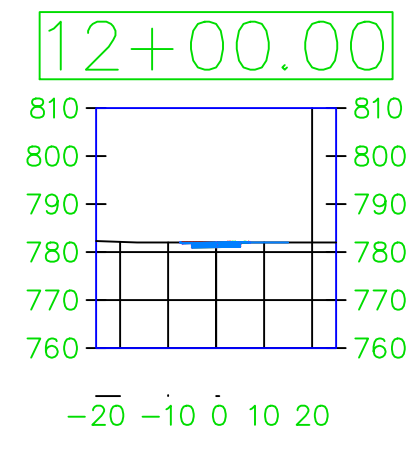
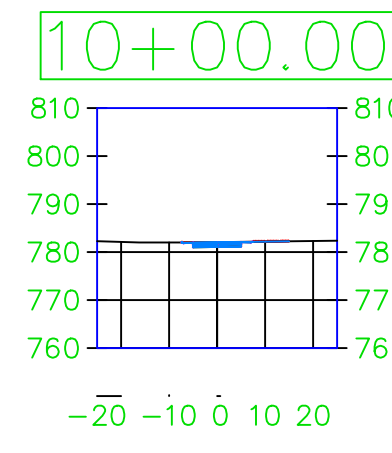


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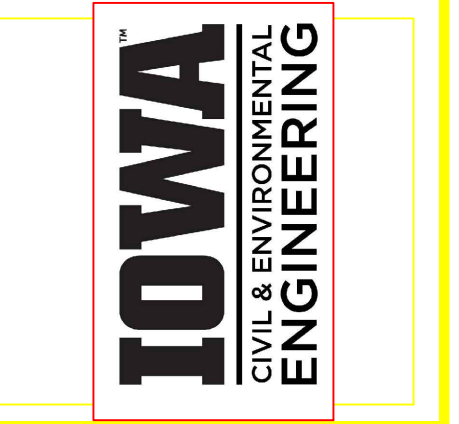
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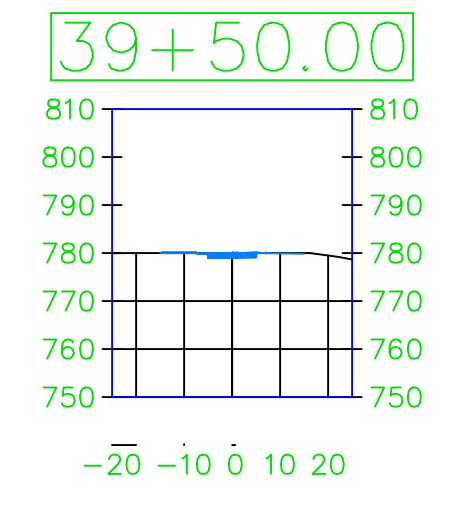
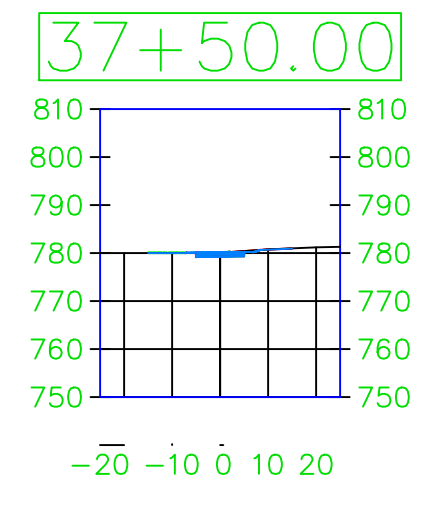
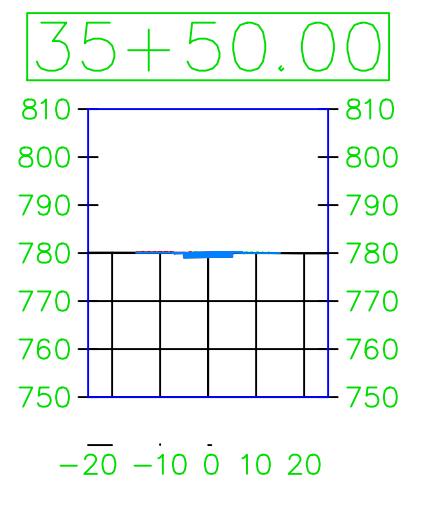
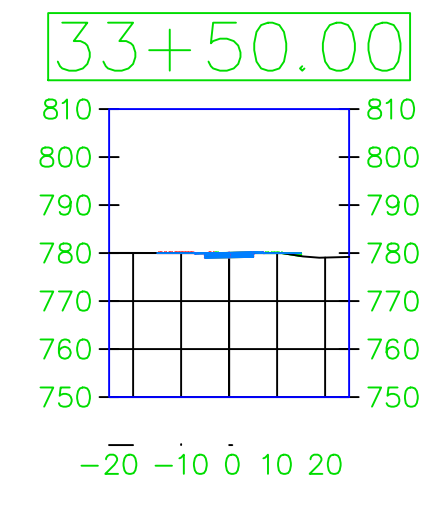
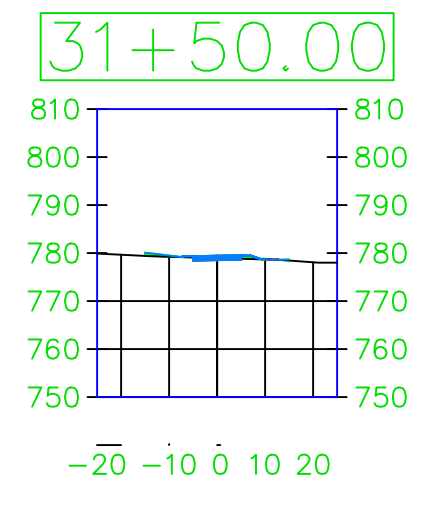
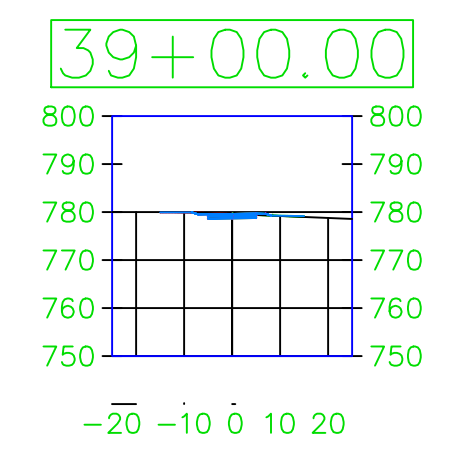
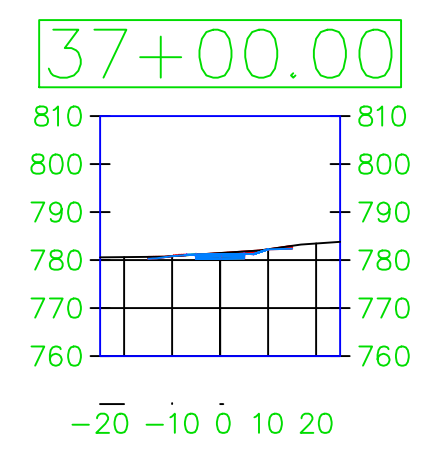
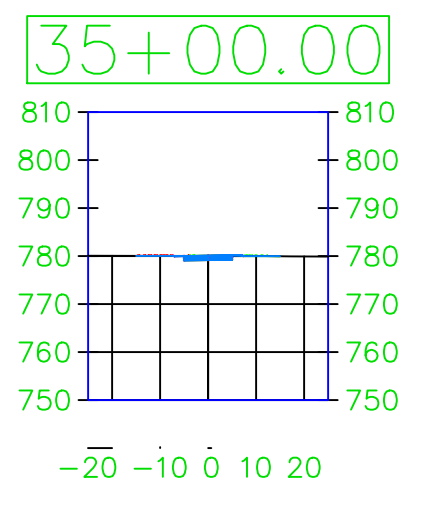
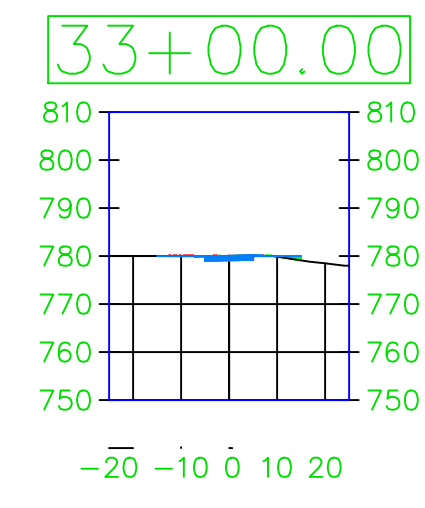
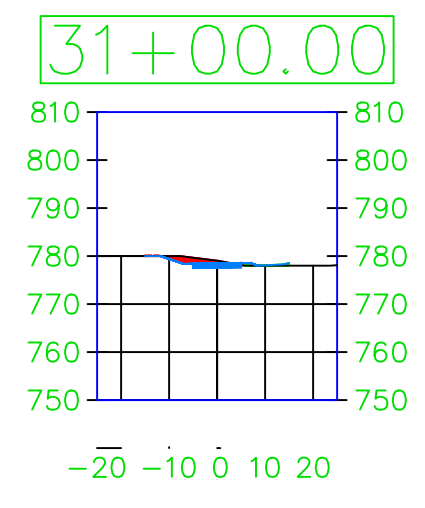
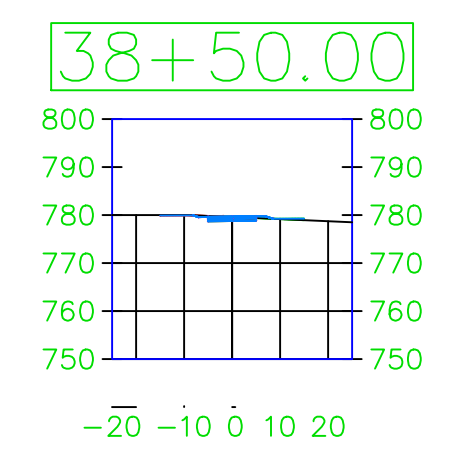
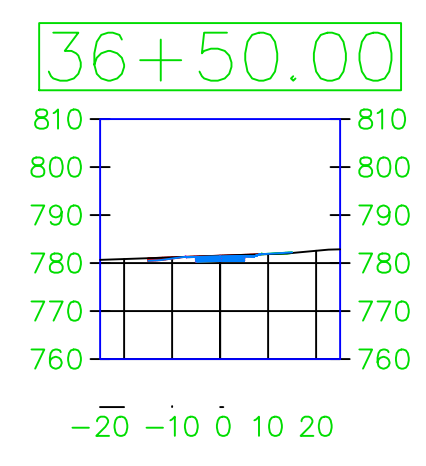
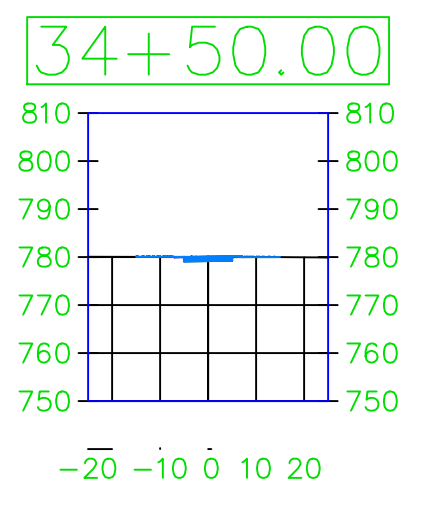
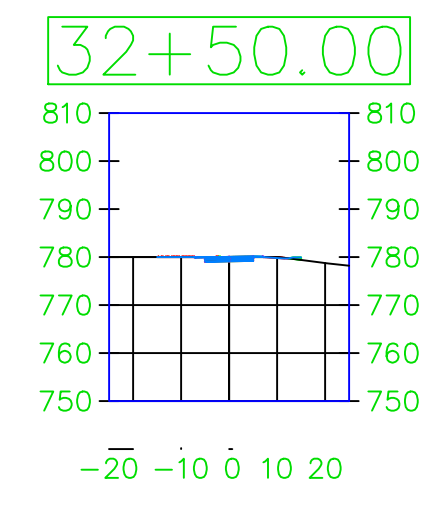
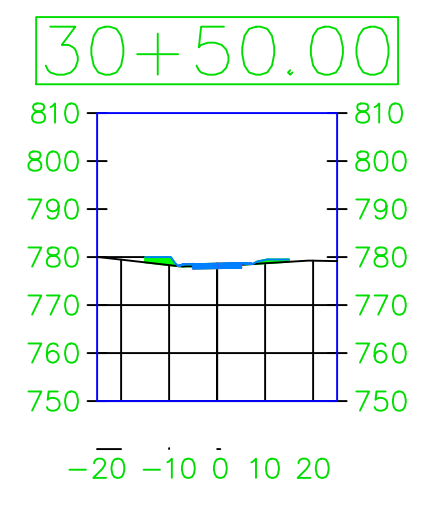
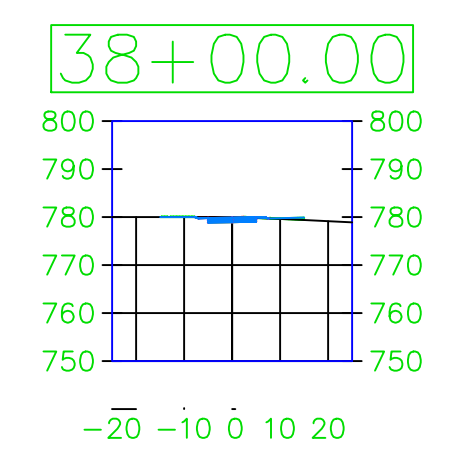
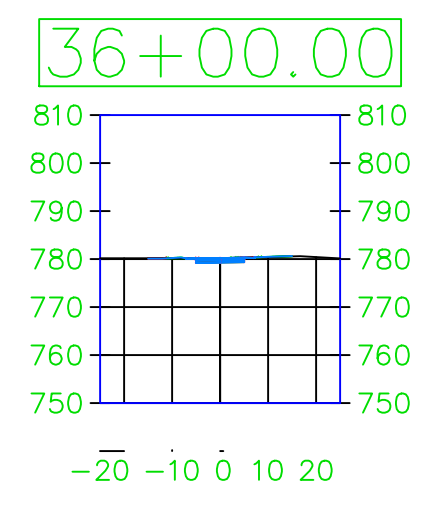
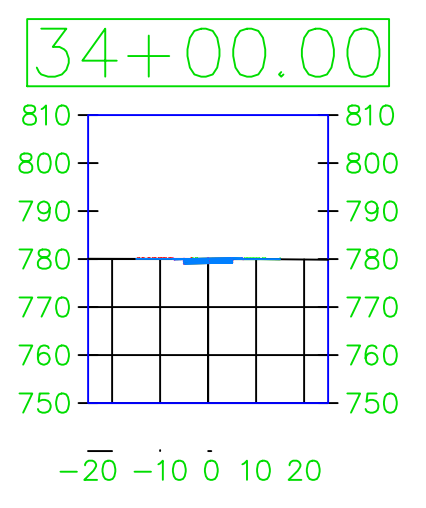
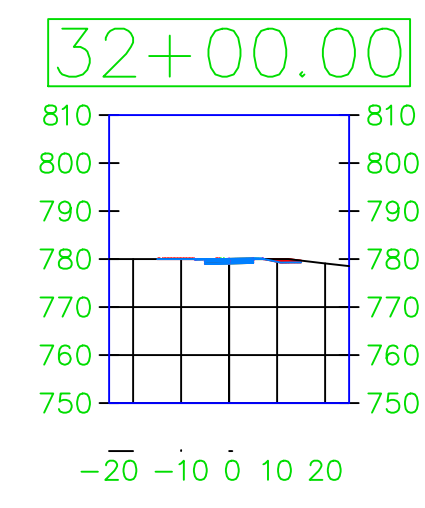
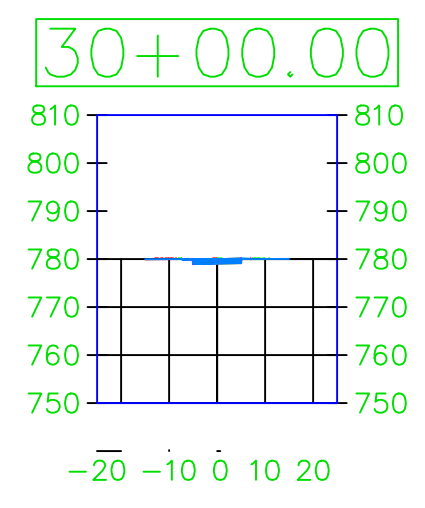


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Volga Trail

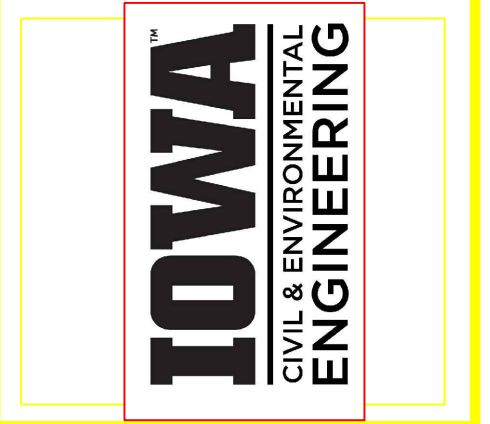
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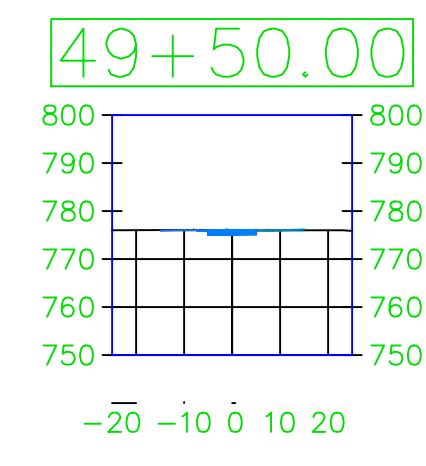
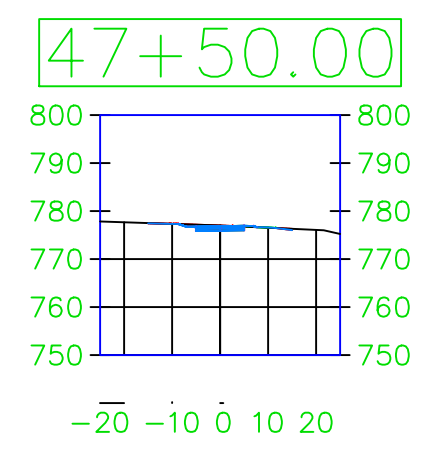
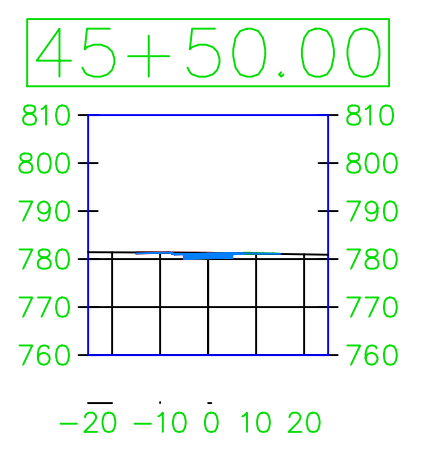
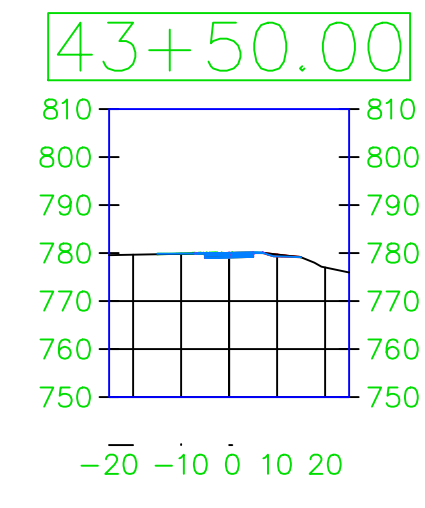
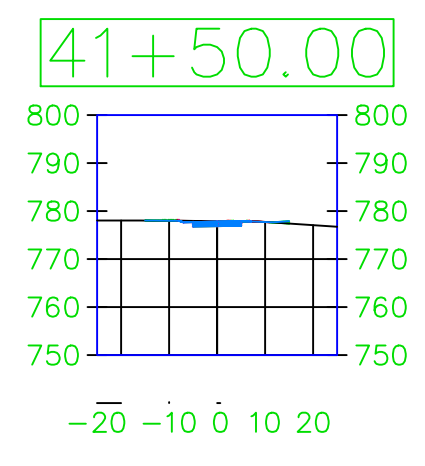
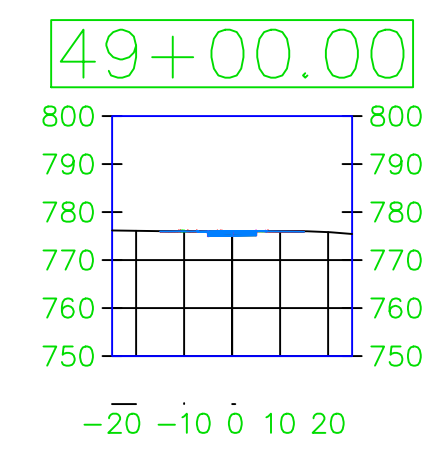
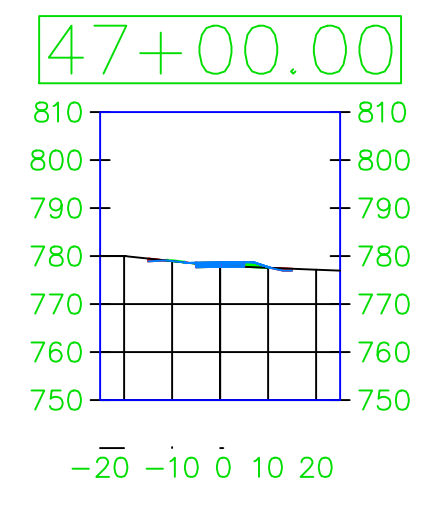
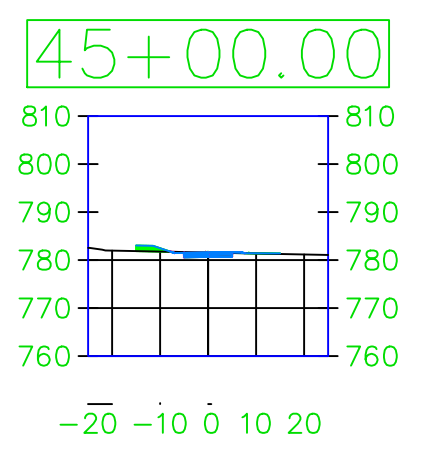
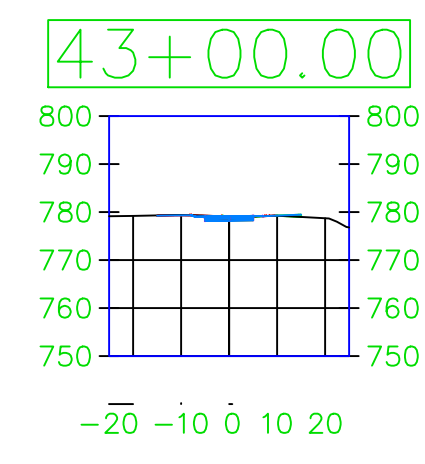
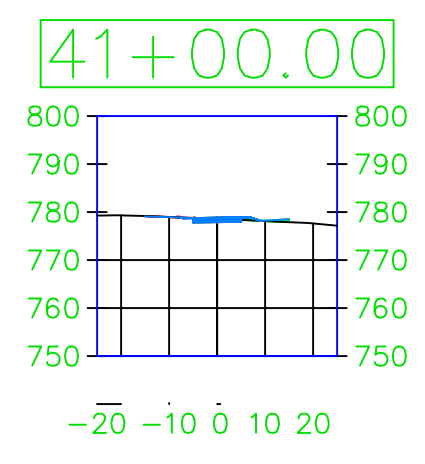
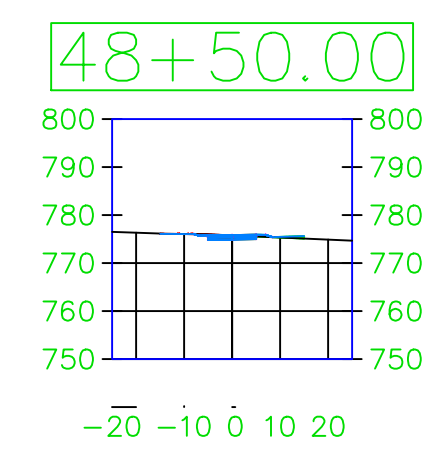
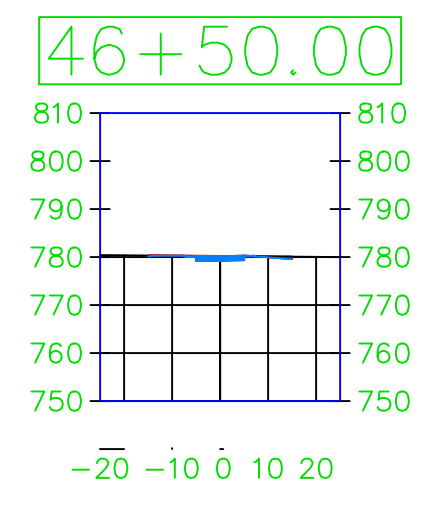
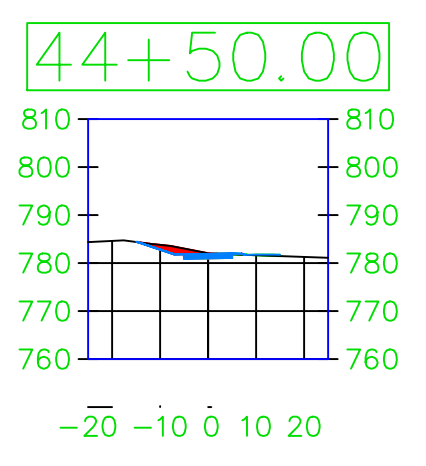
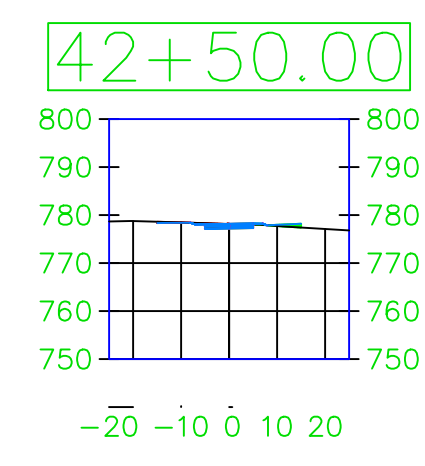
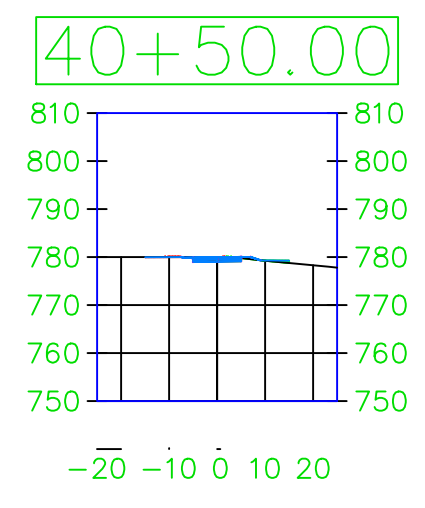
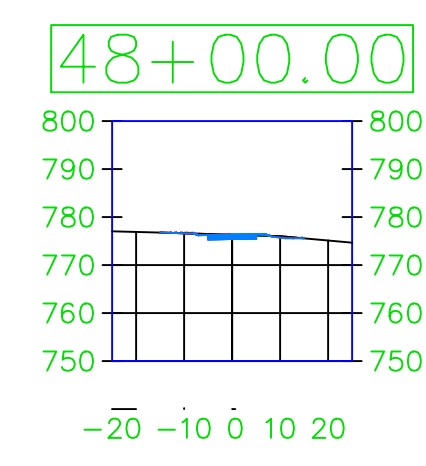
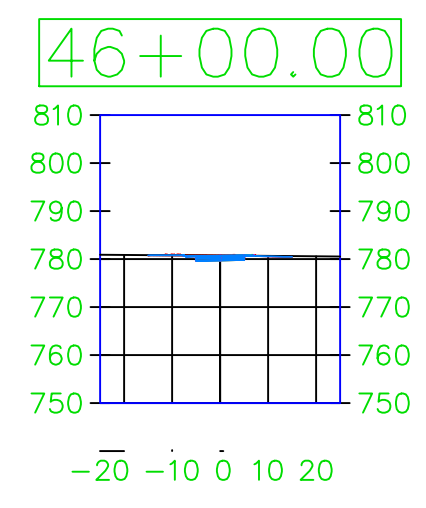
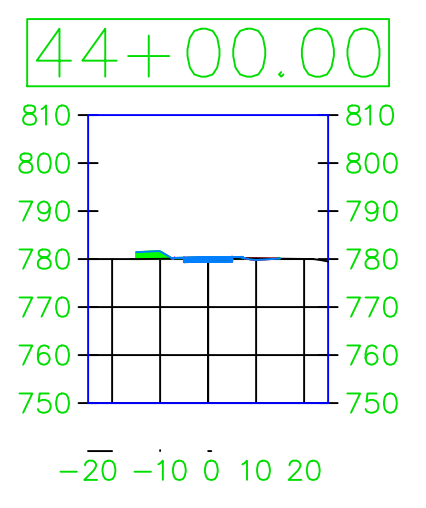
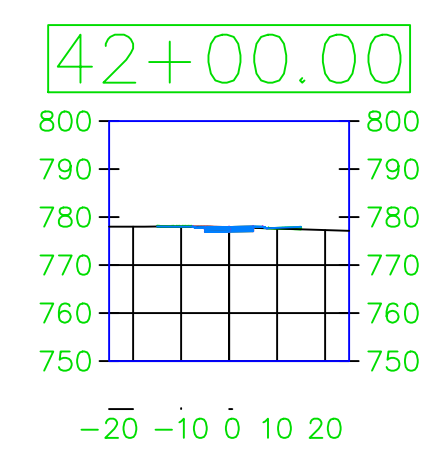
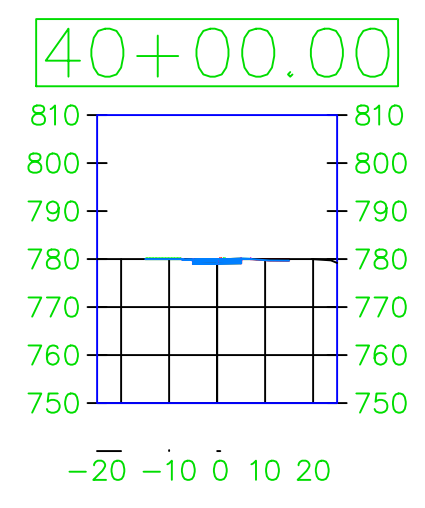


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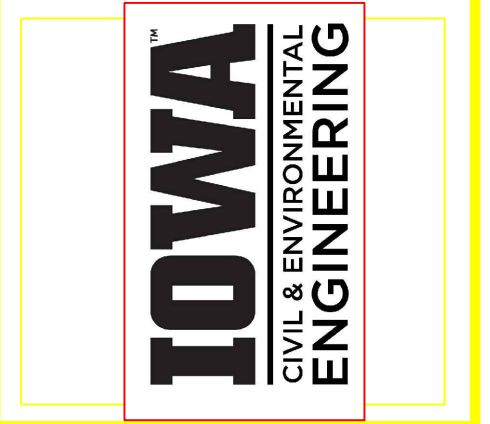
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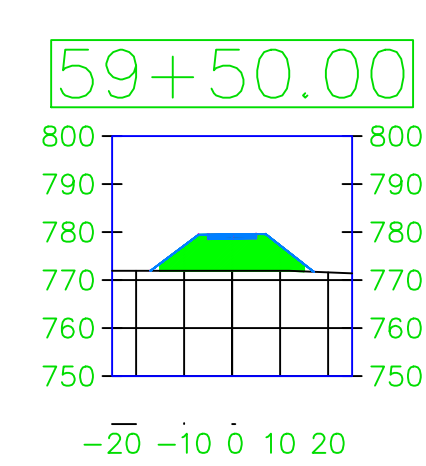
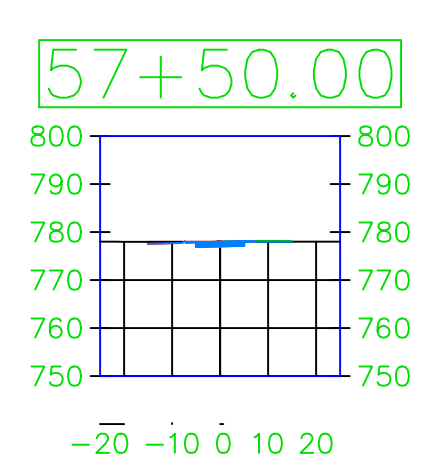
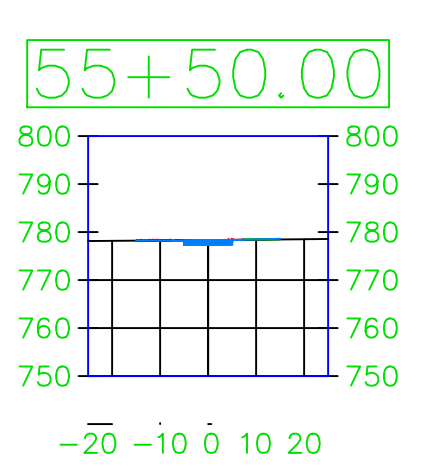
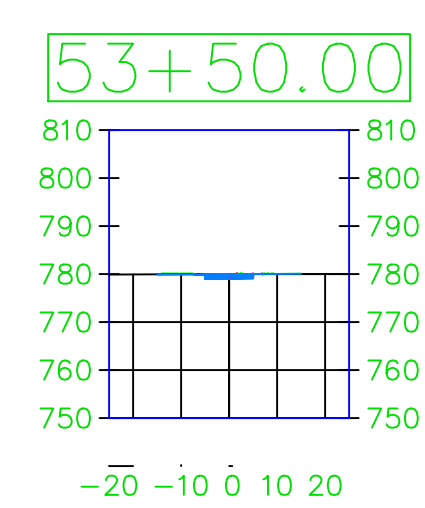
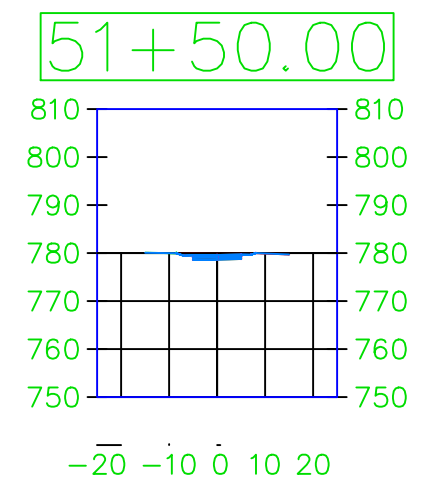
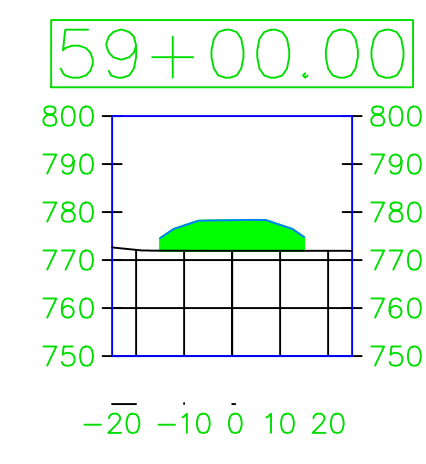
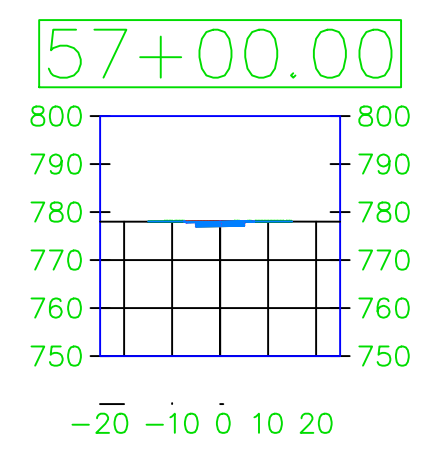
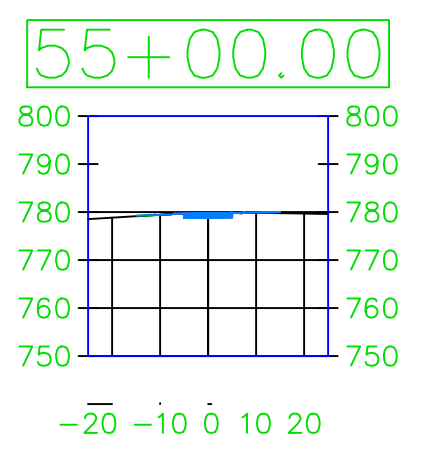
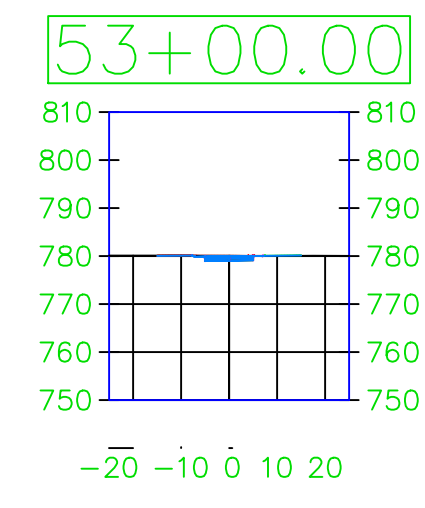
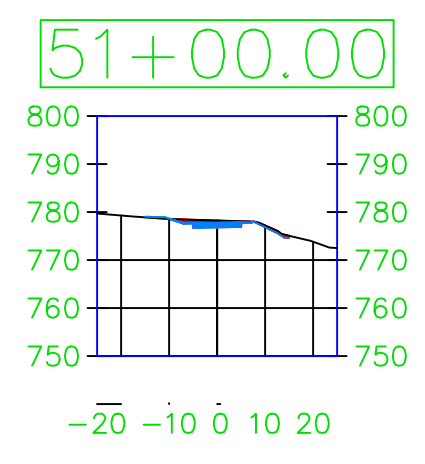
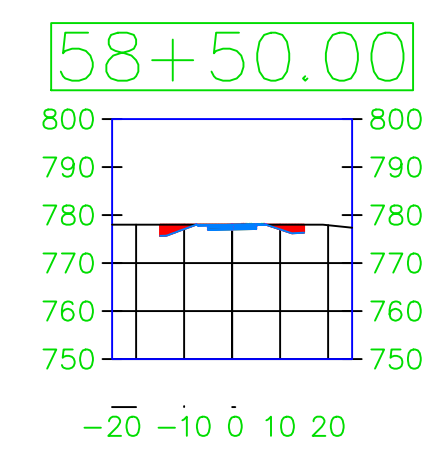
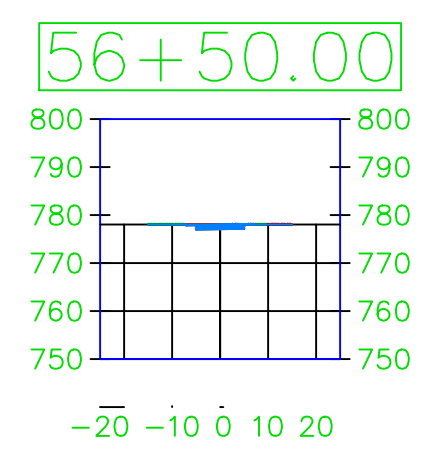
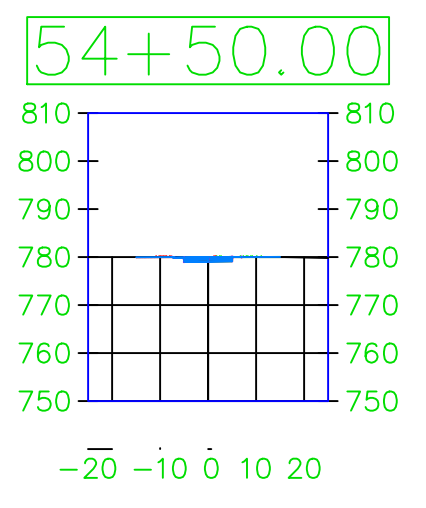
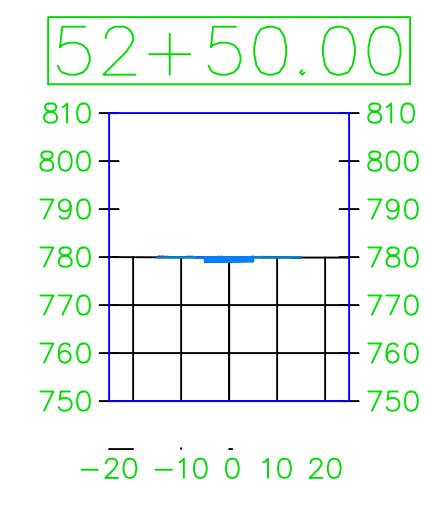
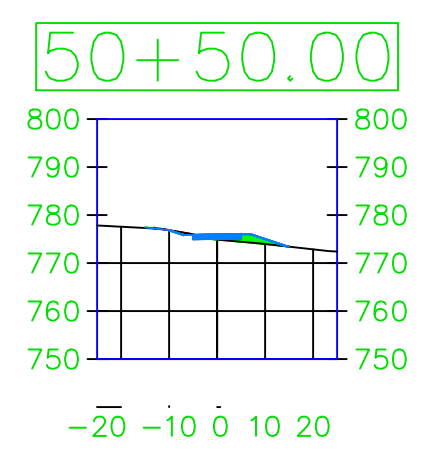
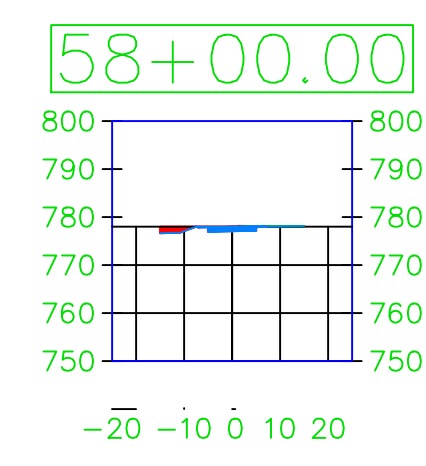
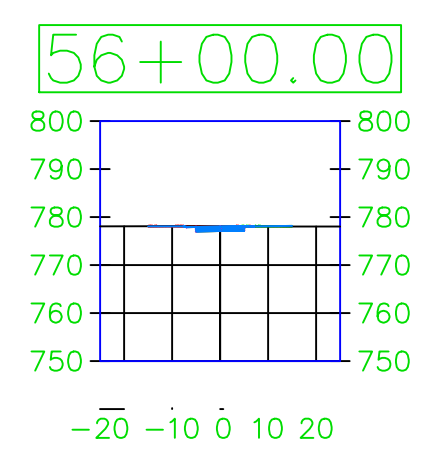
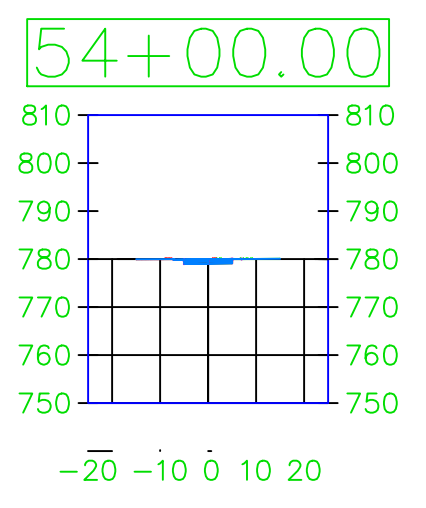
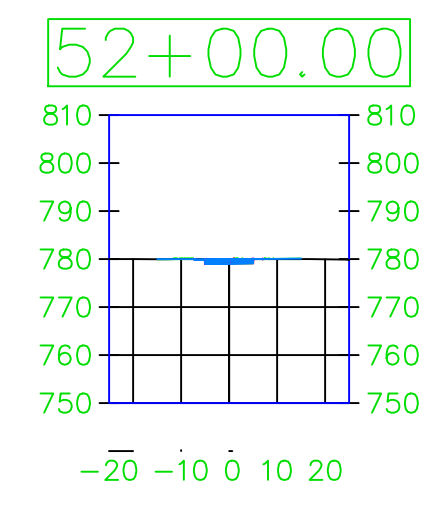
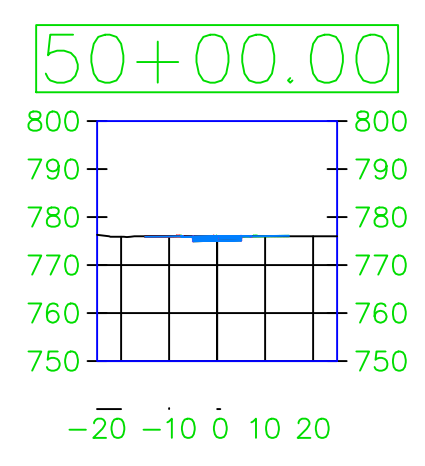


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Volga Trail

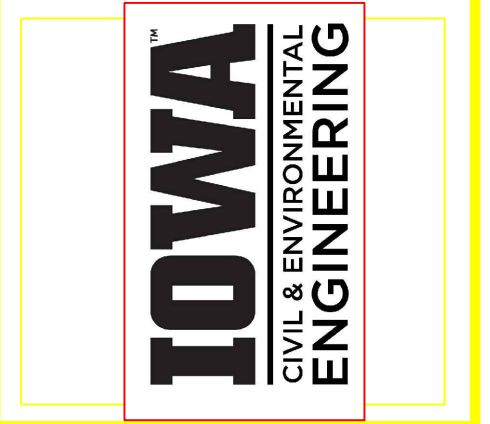
SHEET NAME
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SHEET NO.
XX



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

THE UNIVERSITY OF IOWA
 CIVIL AND ENVIRONMENTAL ENGINEERING
 4105 SEAMANS CENTER FOR THE
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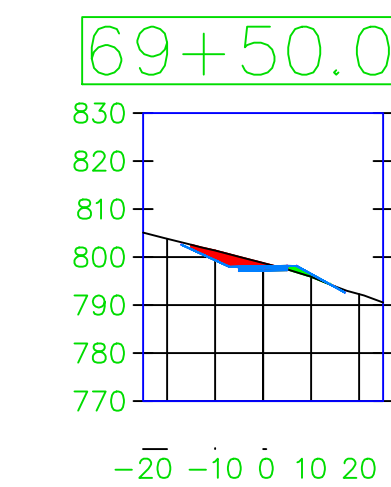
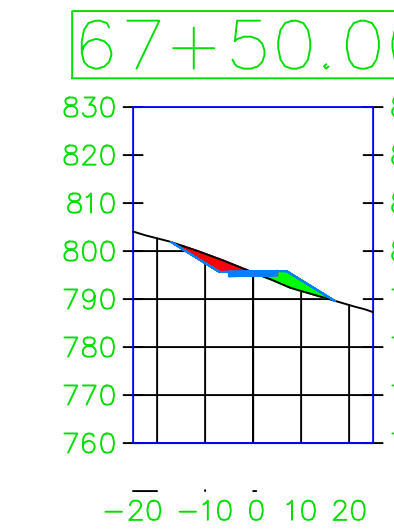
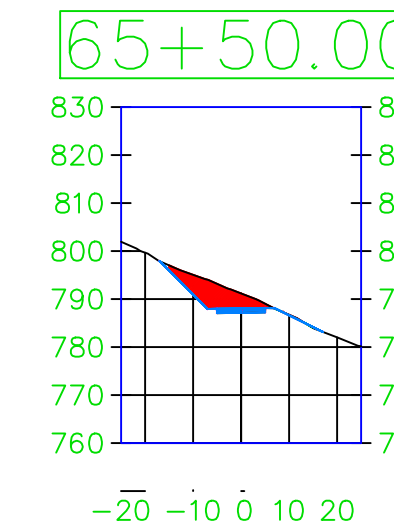
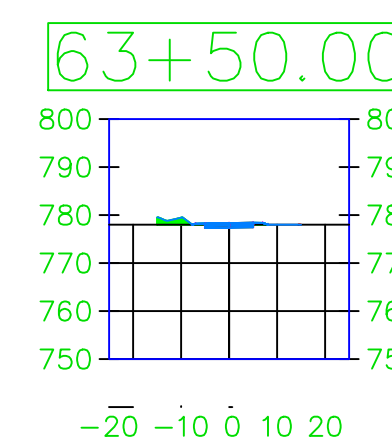
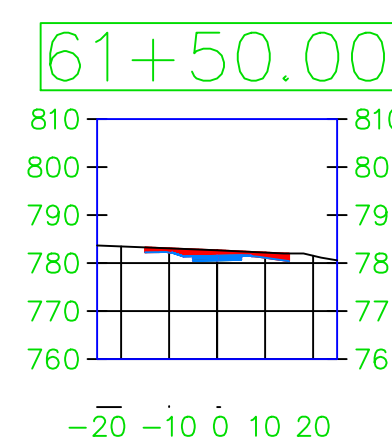
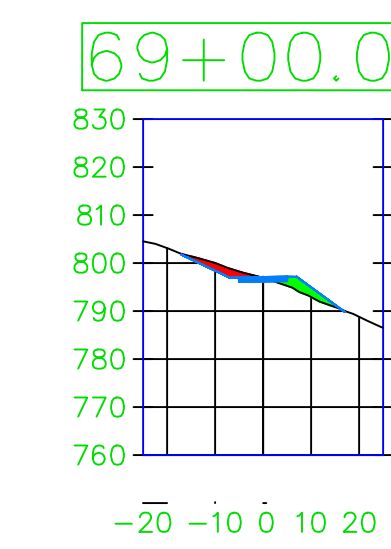
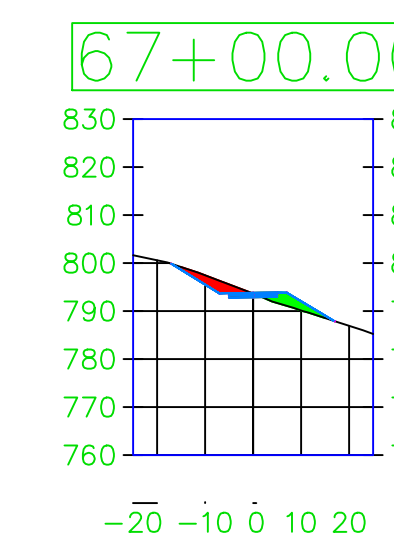
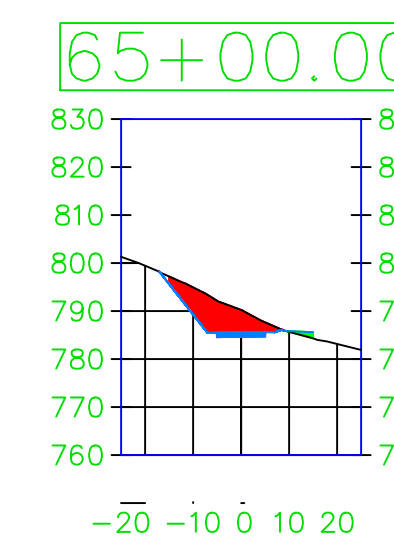
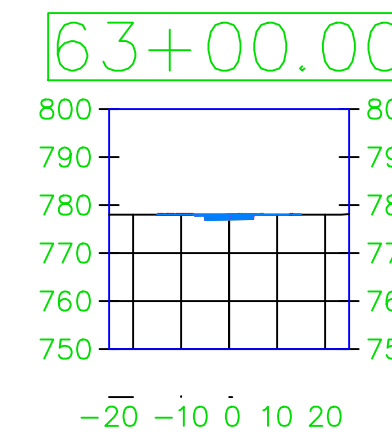
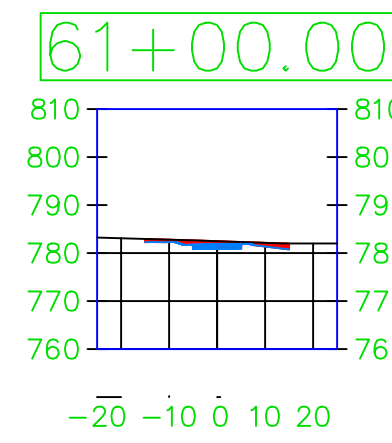
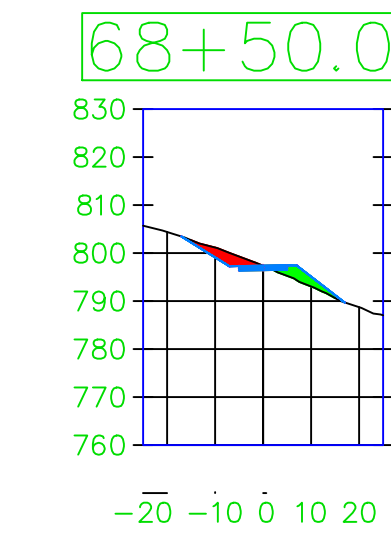
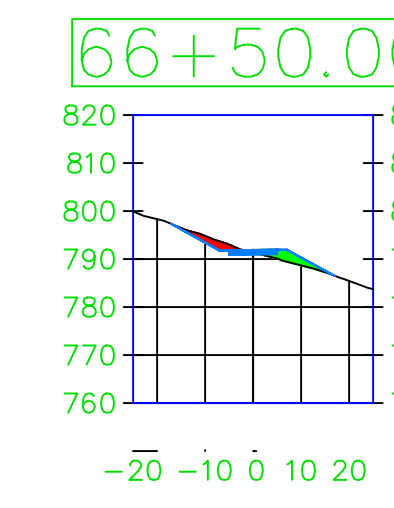
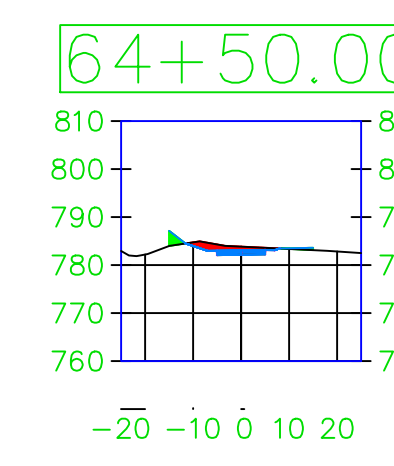
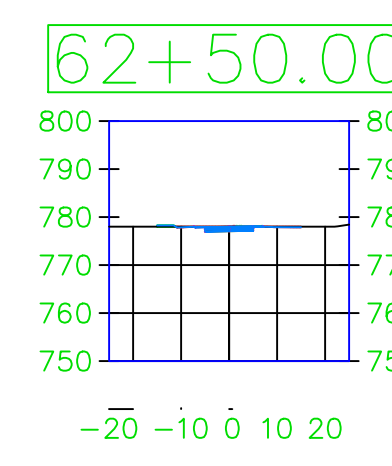
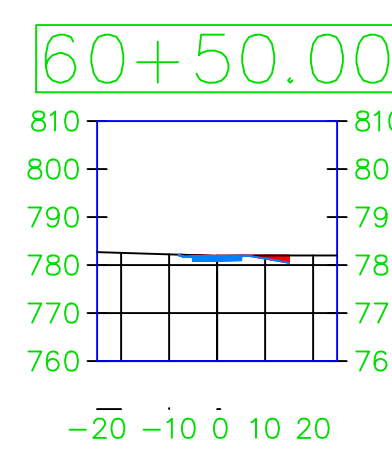
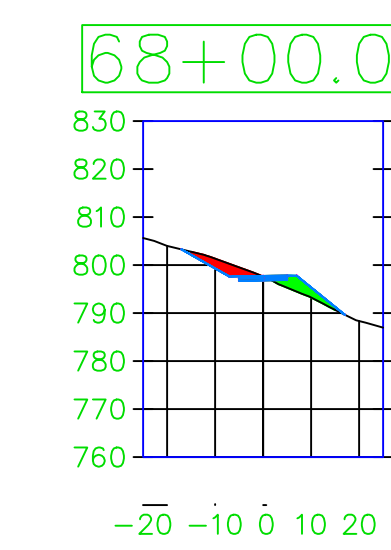
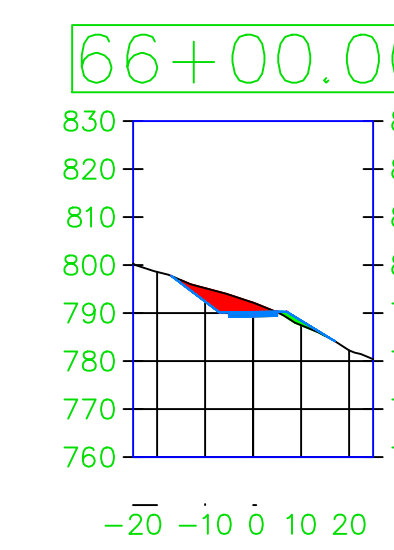
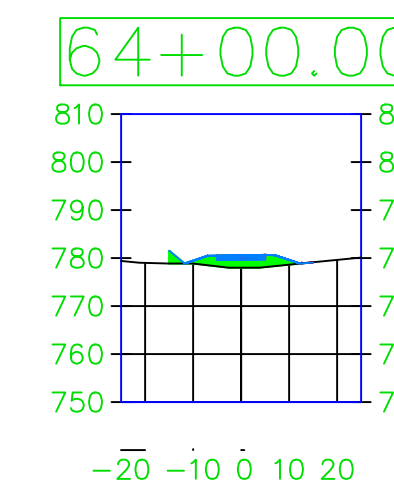
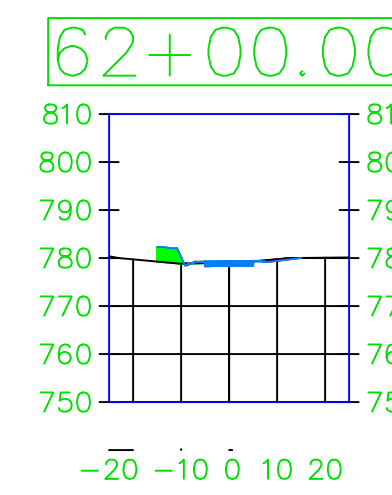
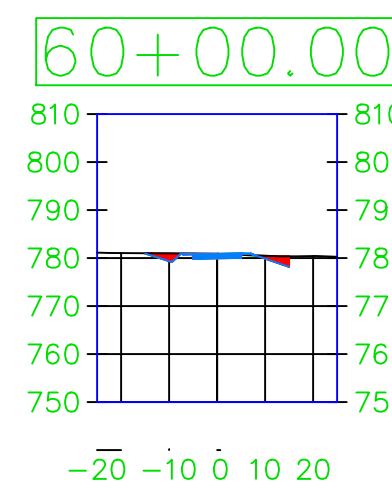


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Volga Trail

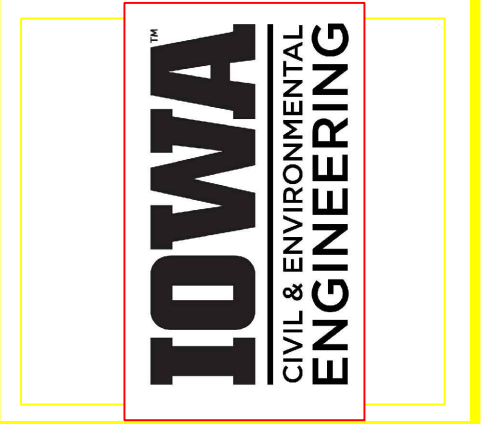
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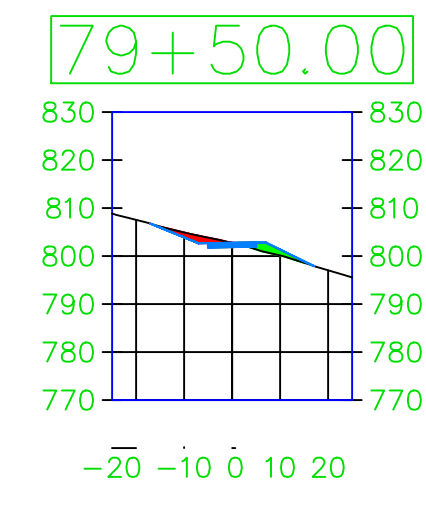
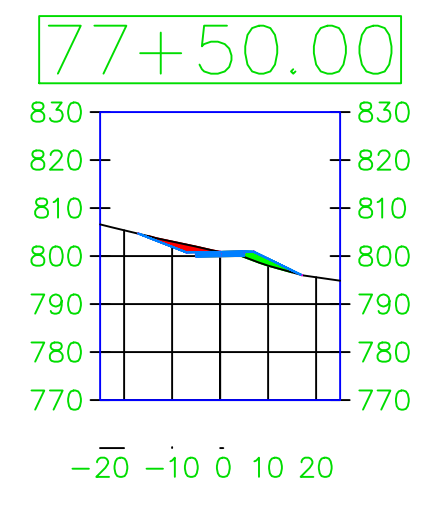
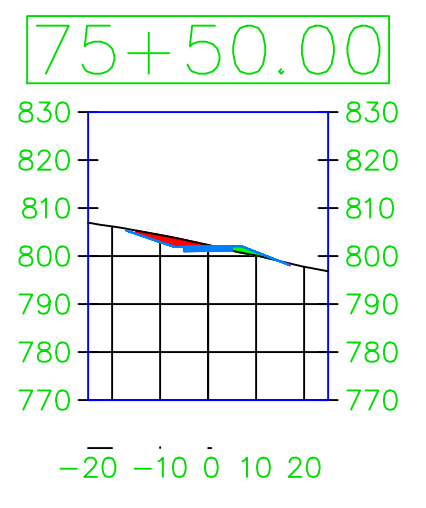
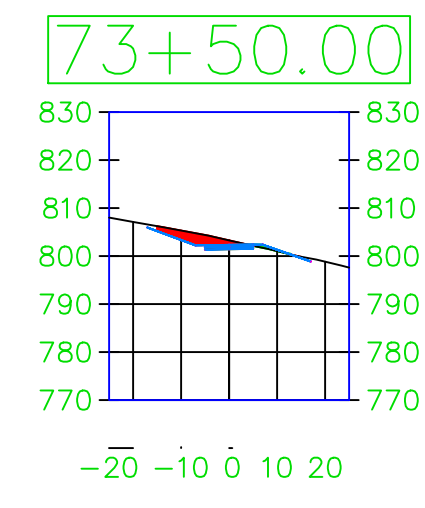
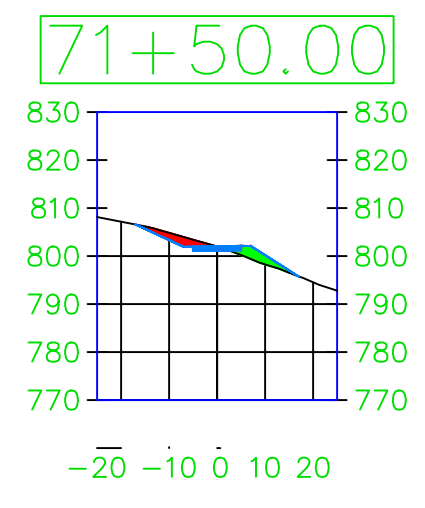
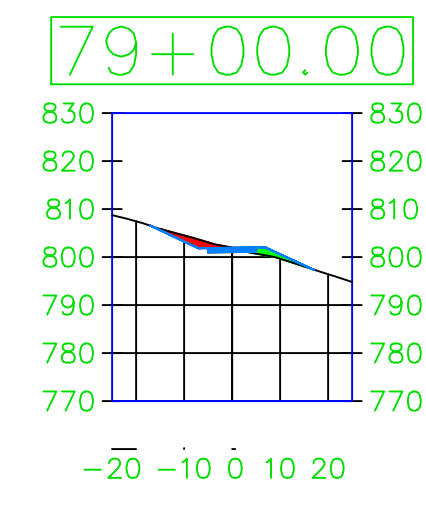
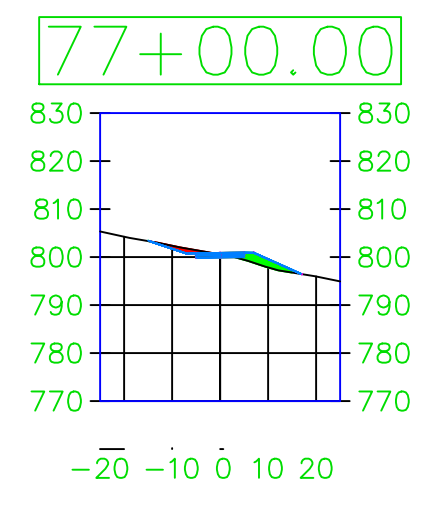
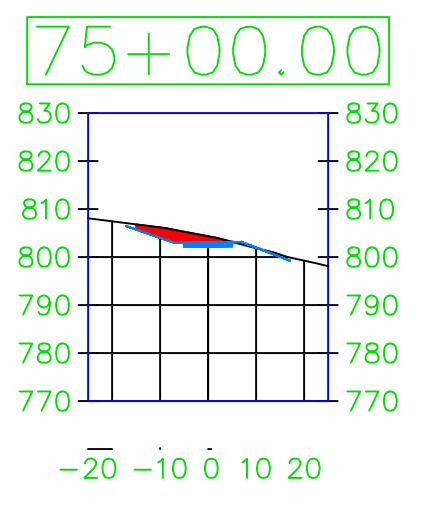
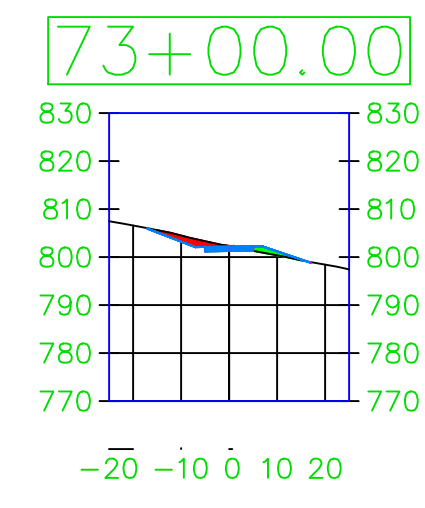
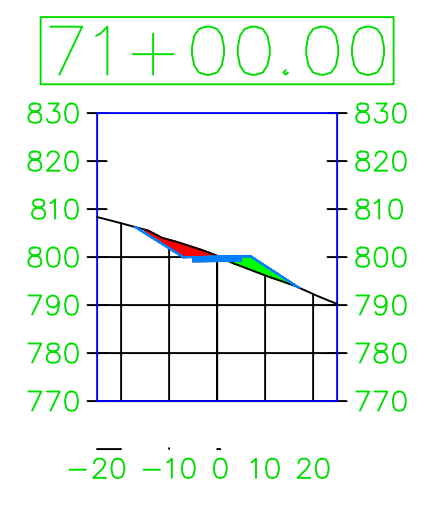
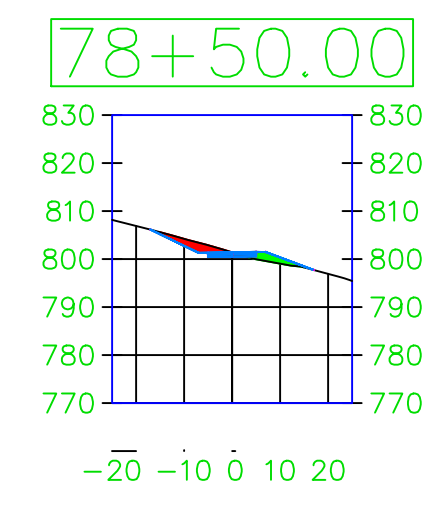
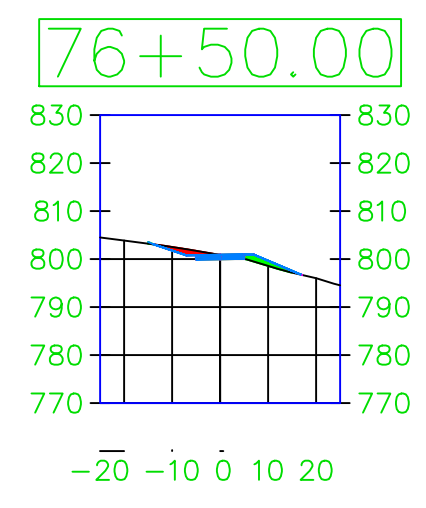
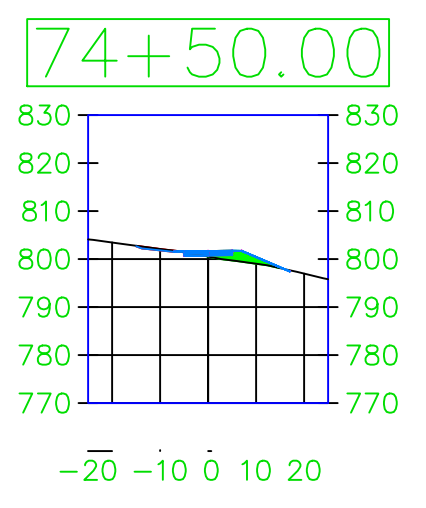
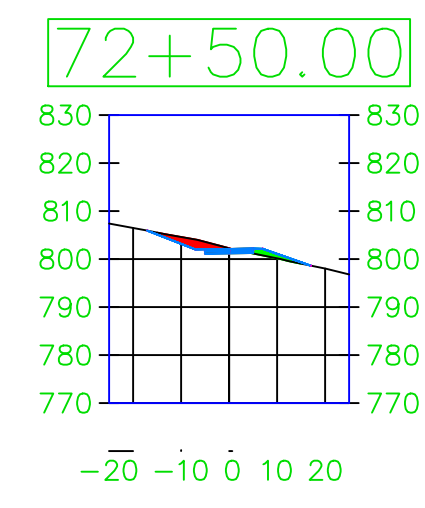
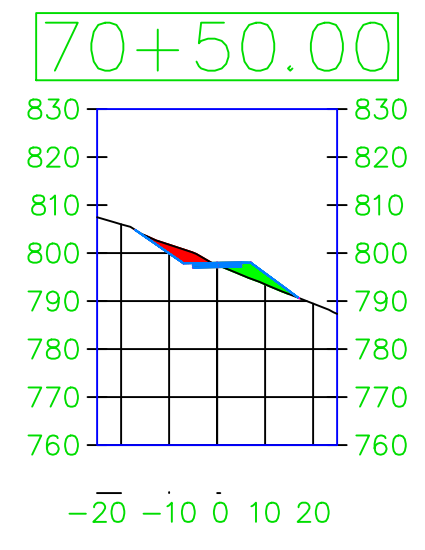
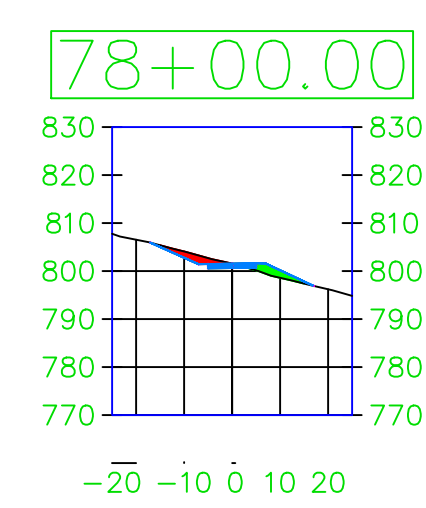
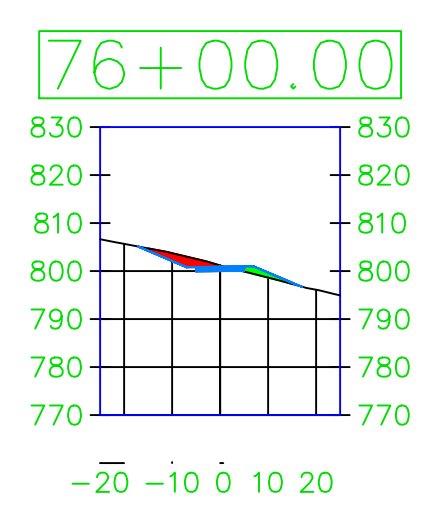
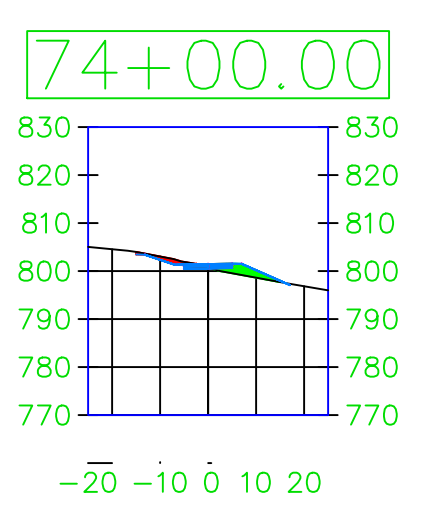
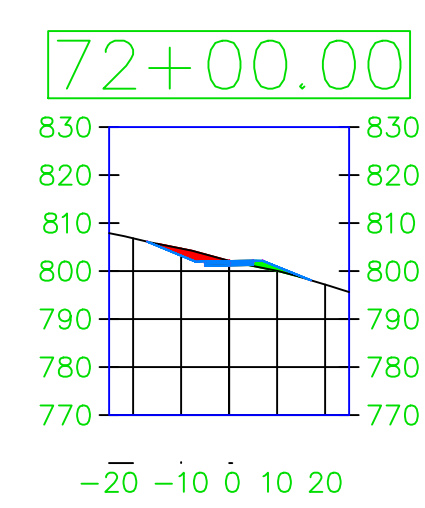
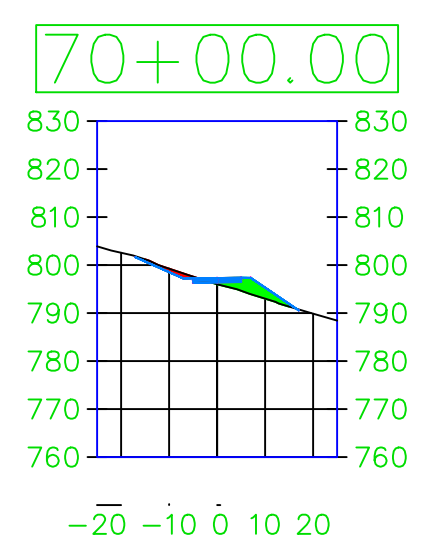


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Volga Trail

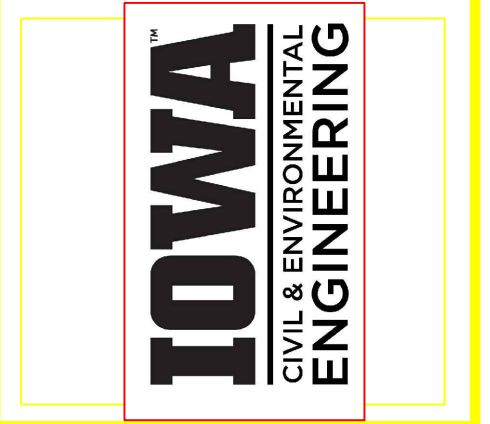
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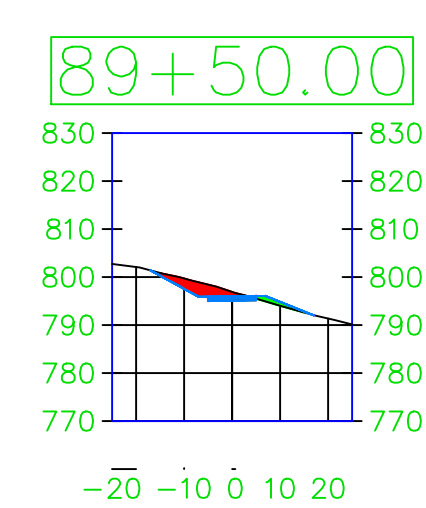
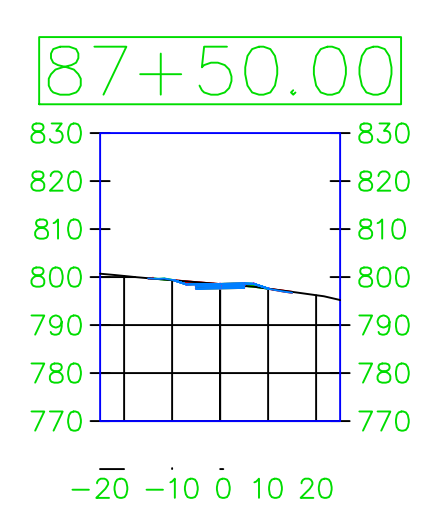
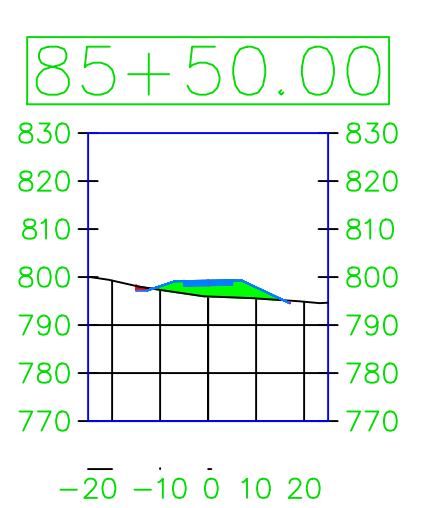
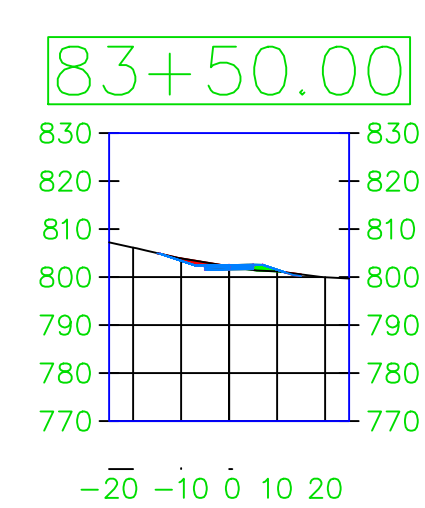
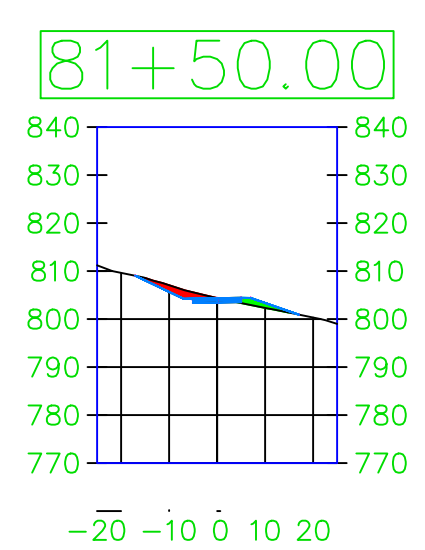
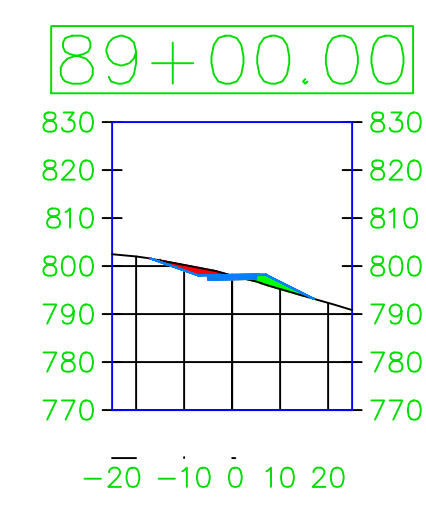
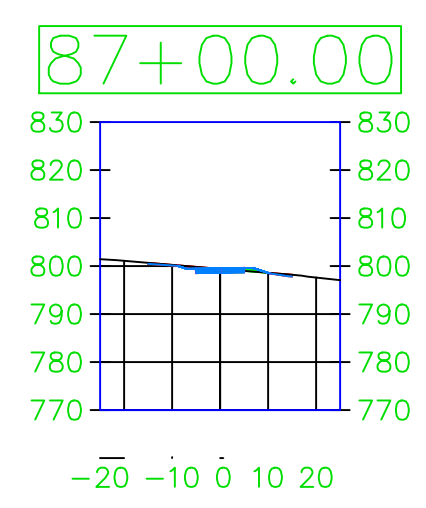
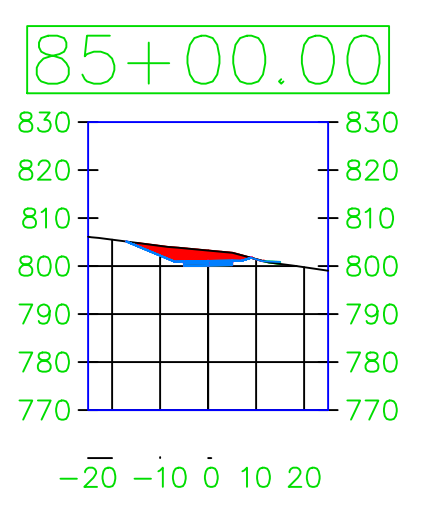
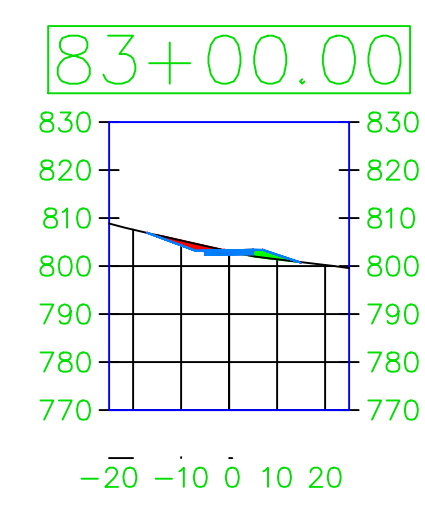
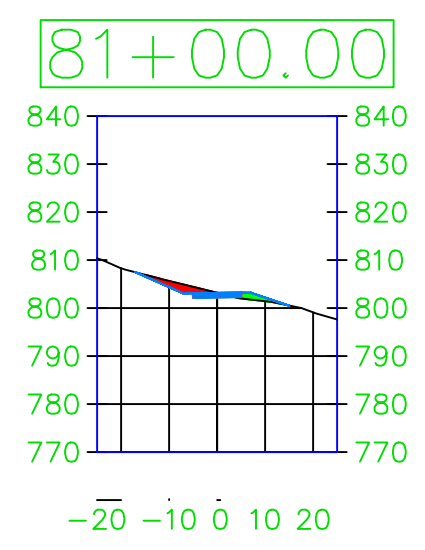
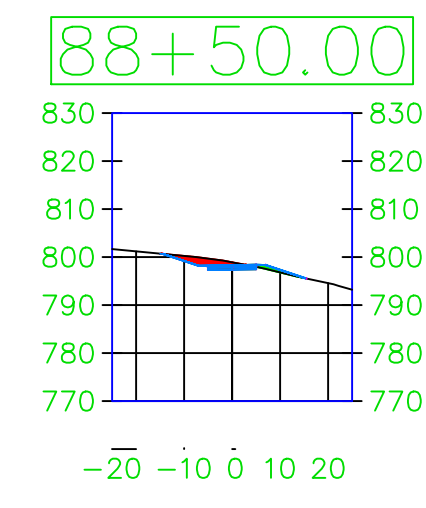
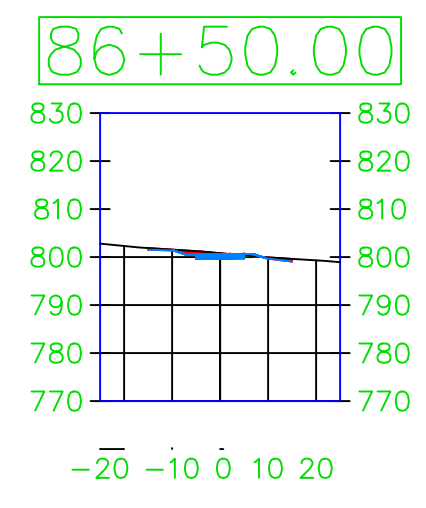
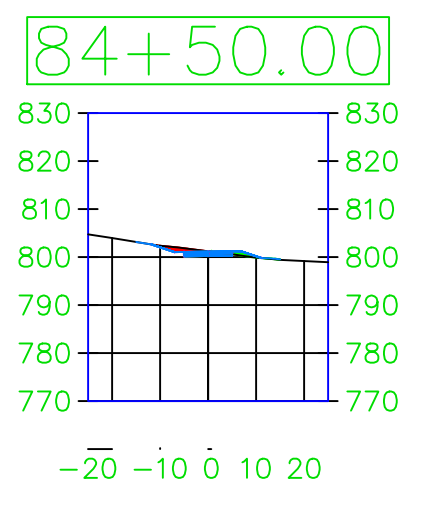
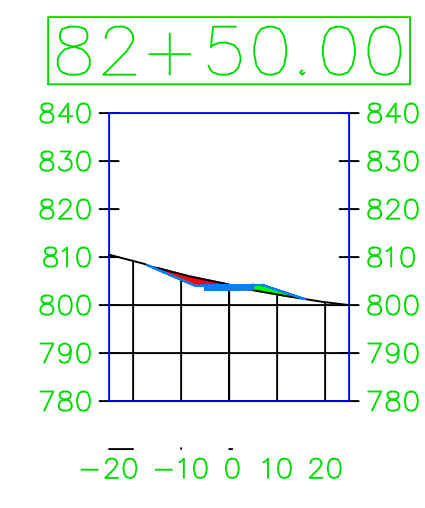
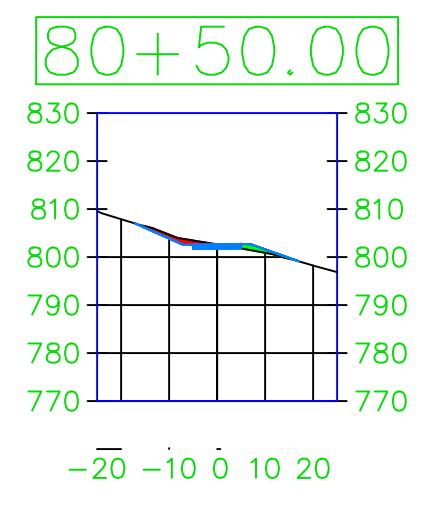
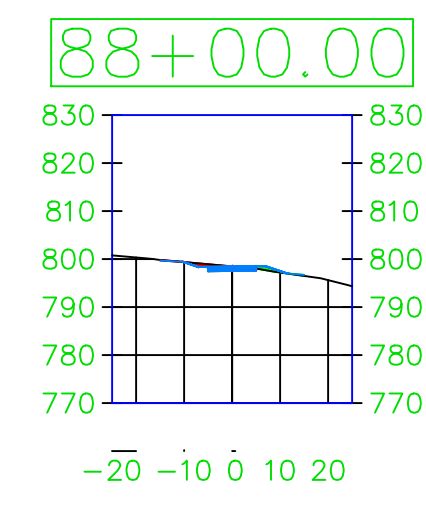
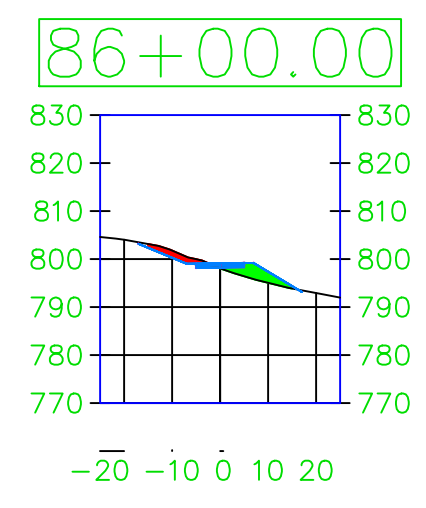
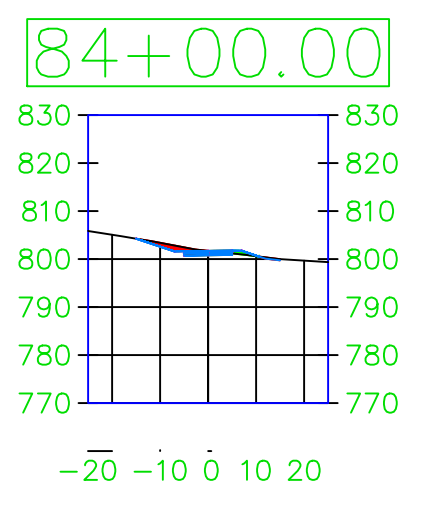
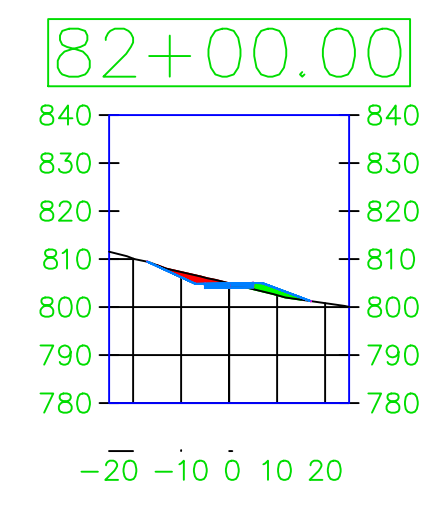
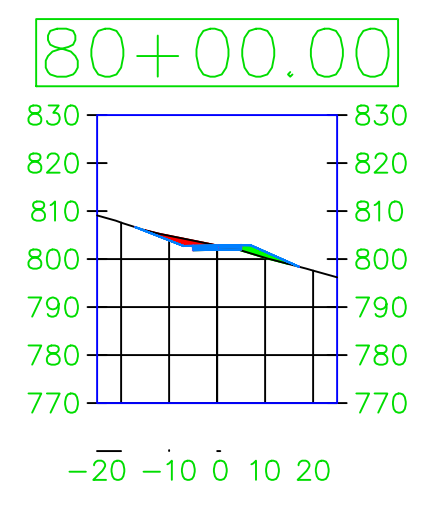


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Volga Trail

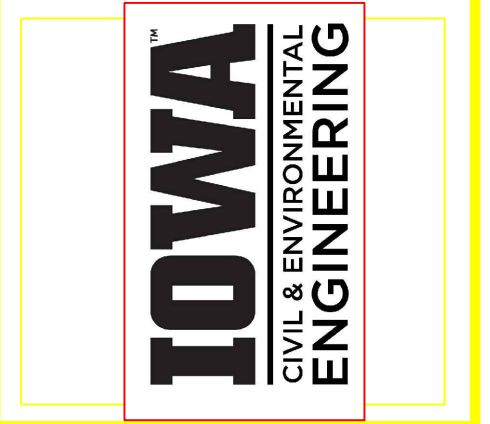
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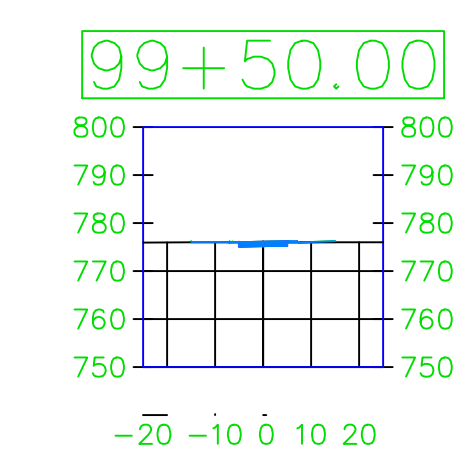
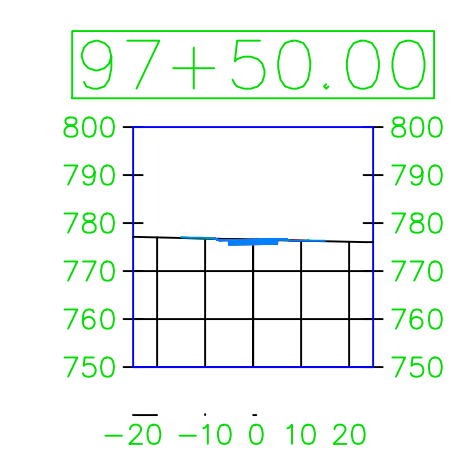
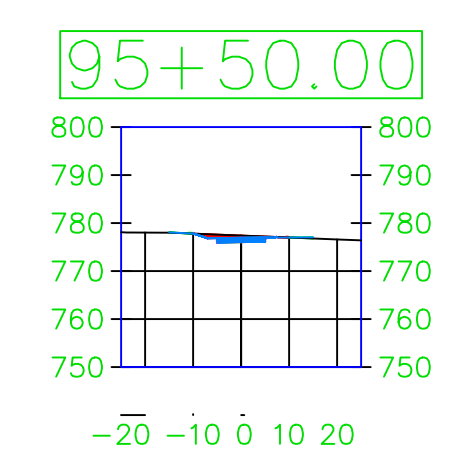
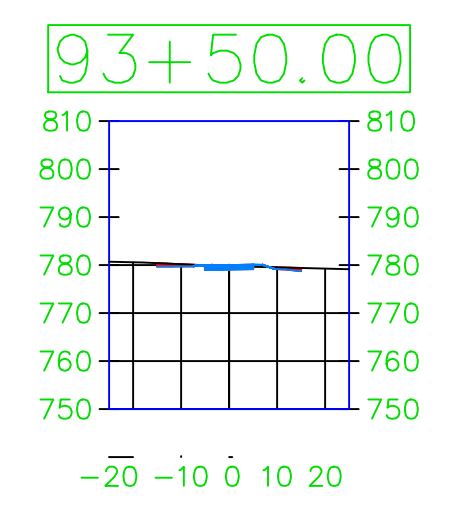
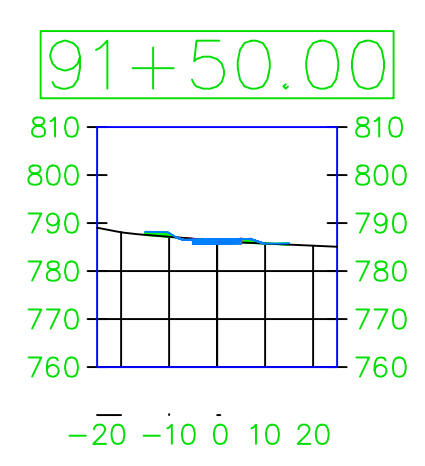
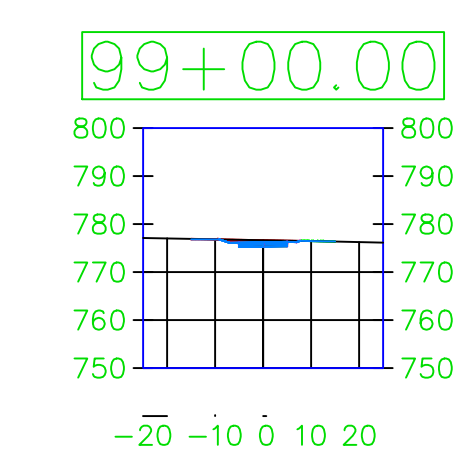
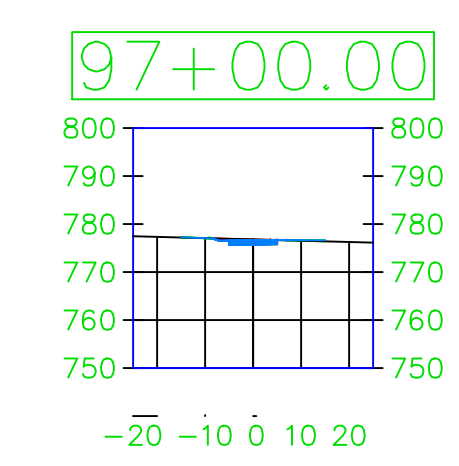
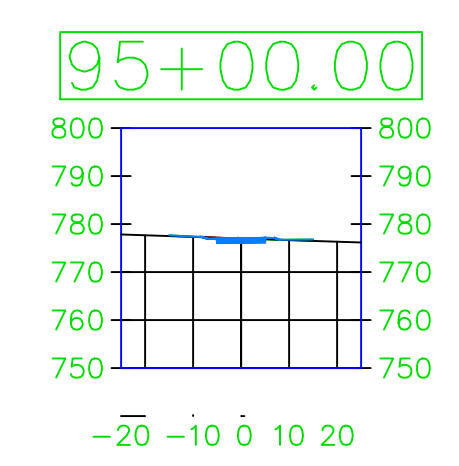
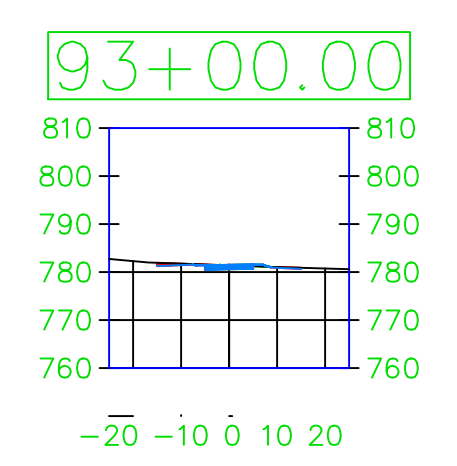
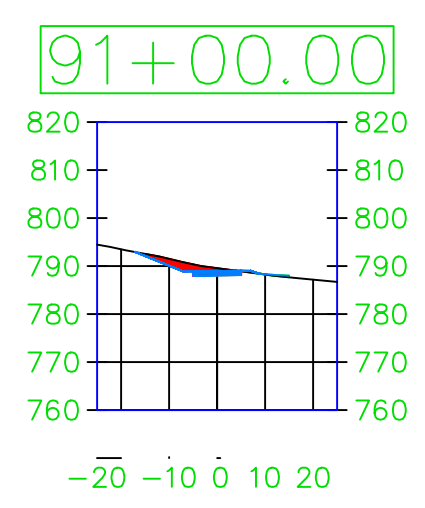
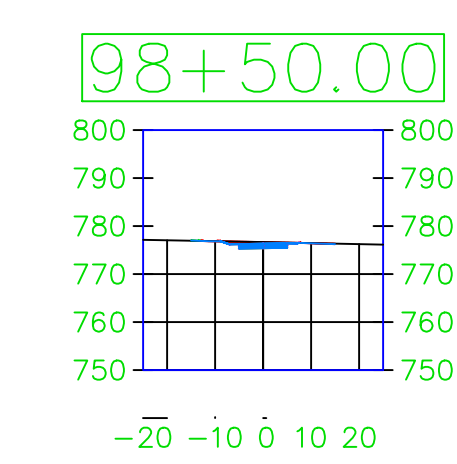
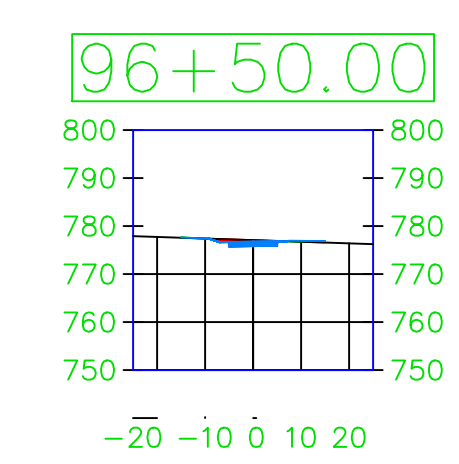
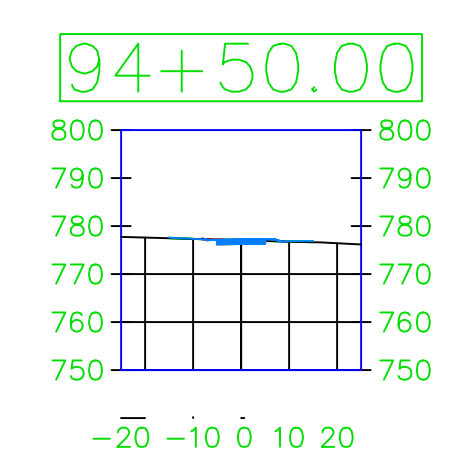
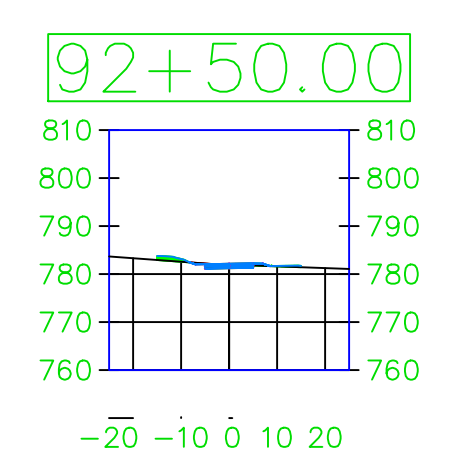
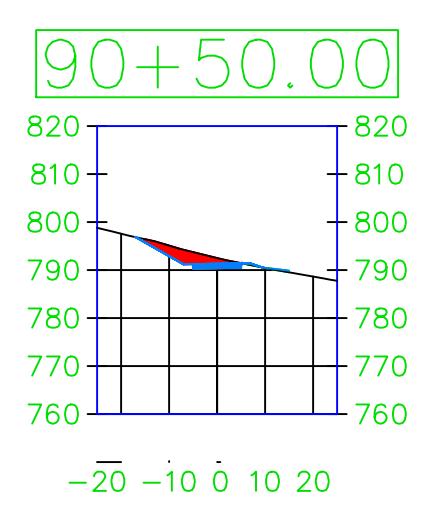
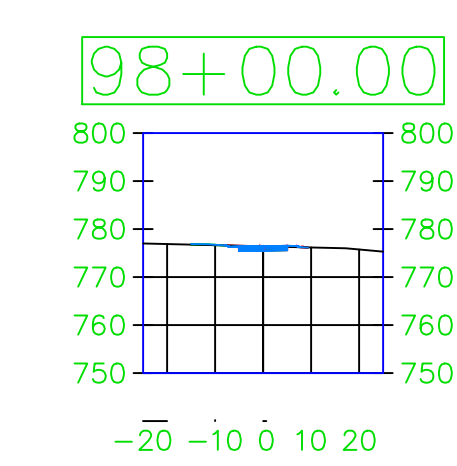
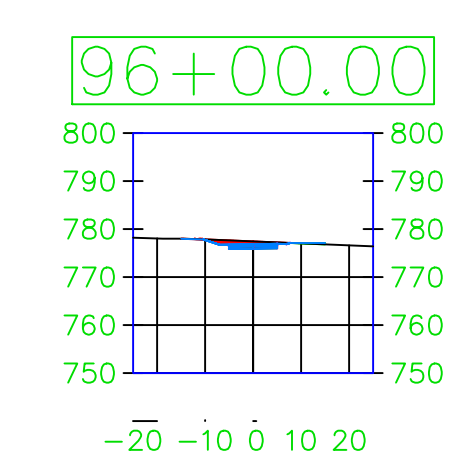
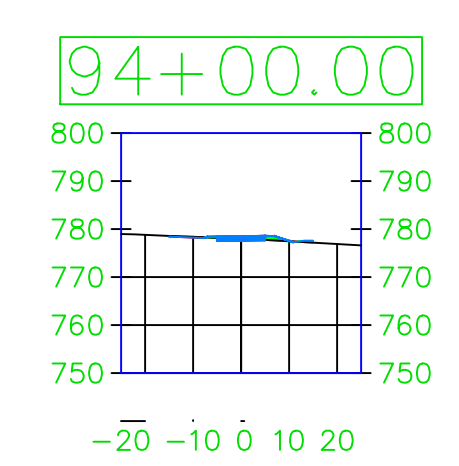
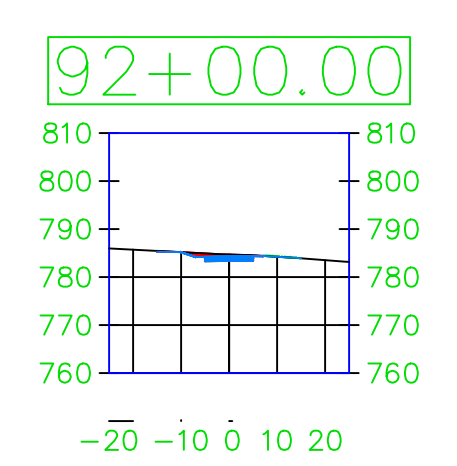
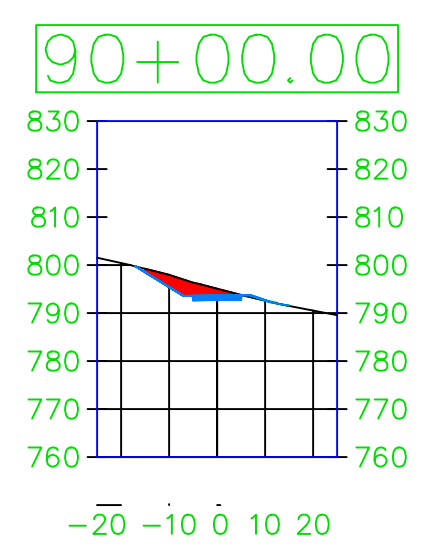


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Volga Trail

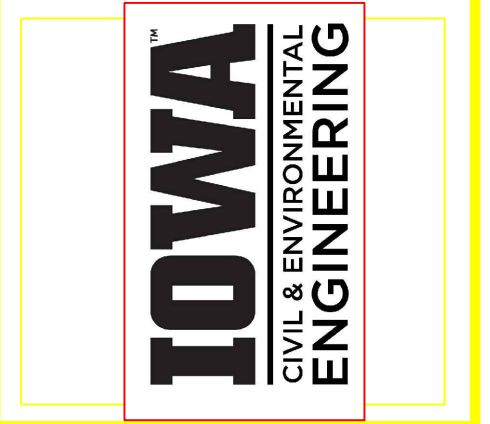
SHEET NAME
 SHEET NAME 1
 SHEET NAME 2

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
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 103 S CAPITOL ST
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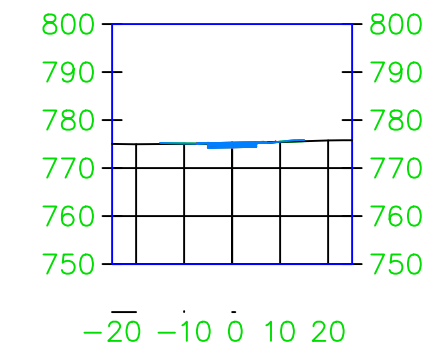
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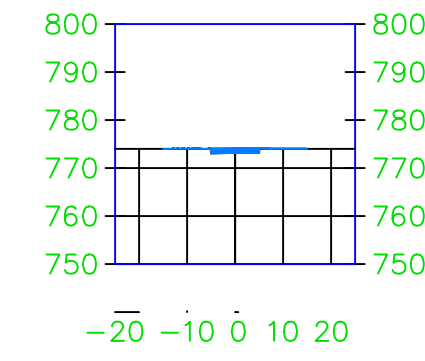
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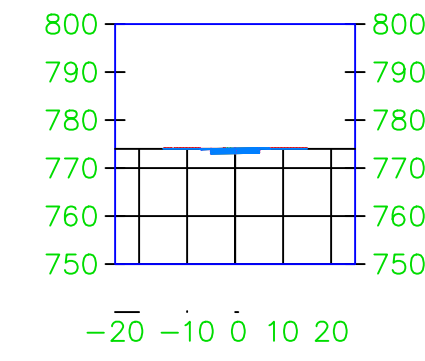
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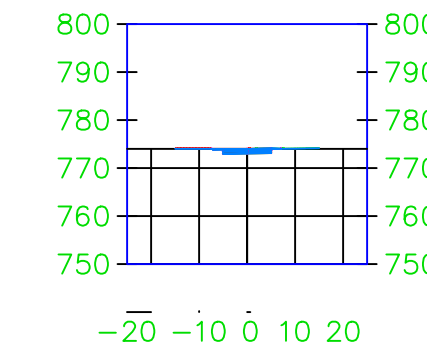
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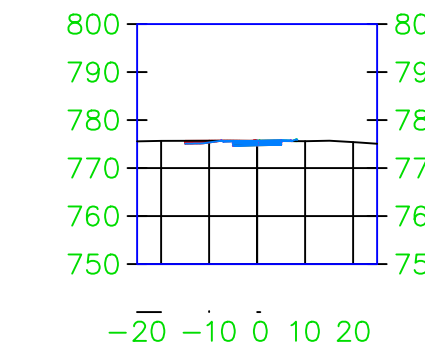
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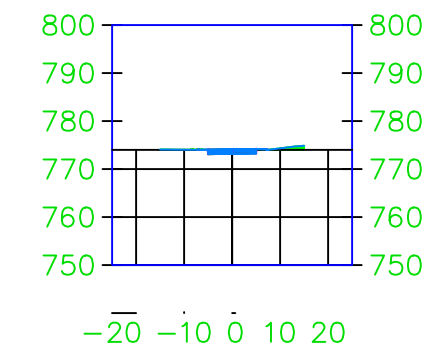
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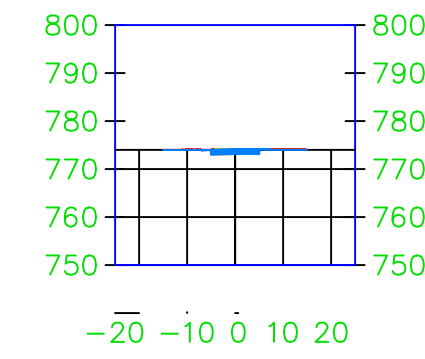
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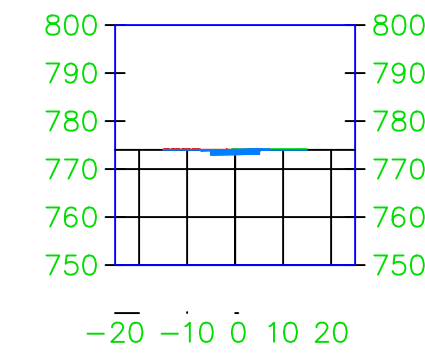
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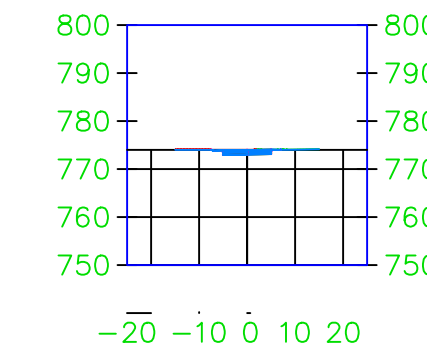
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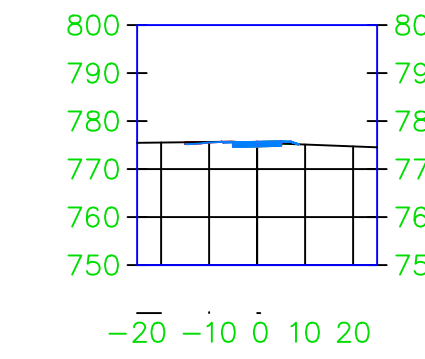
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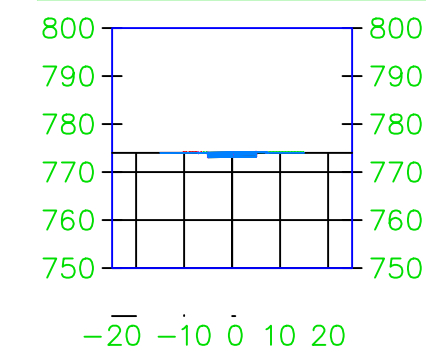
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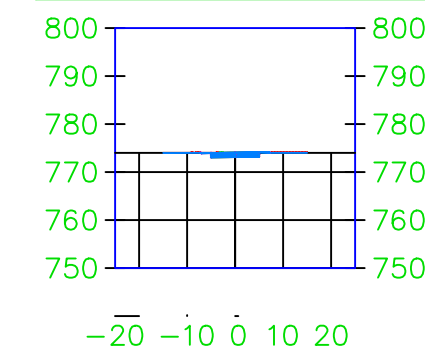
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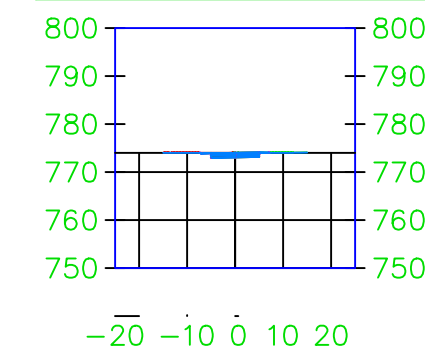
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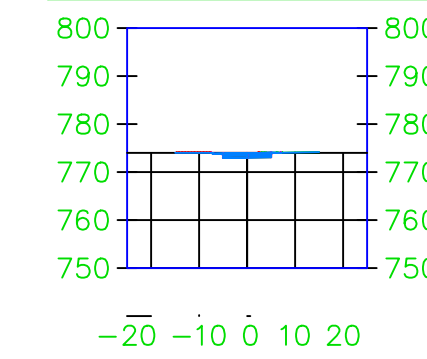
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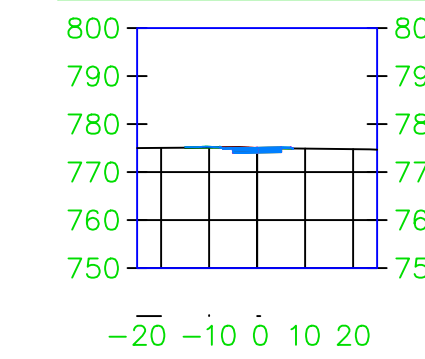
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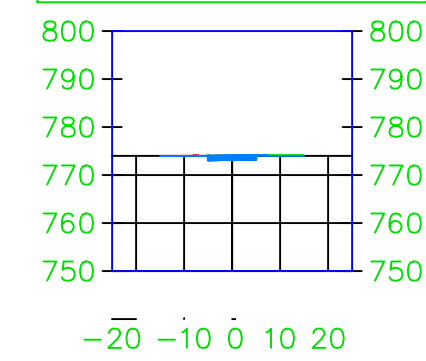
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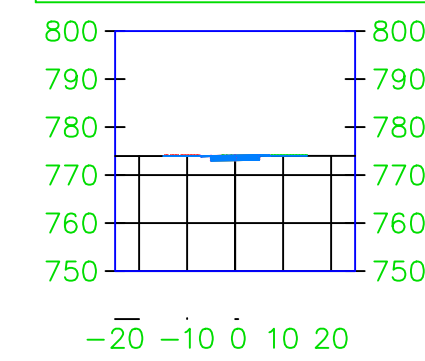
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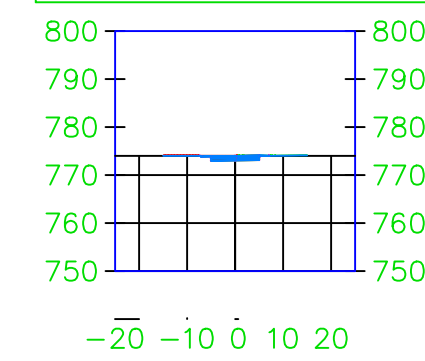
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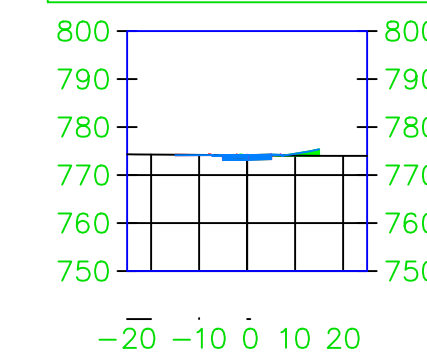
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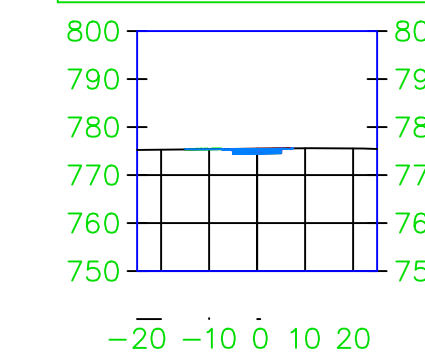
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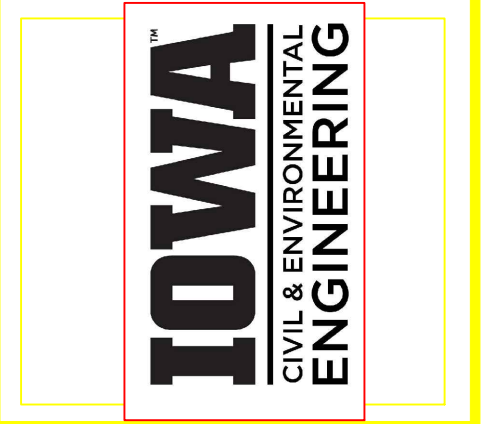


109+50.00



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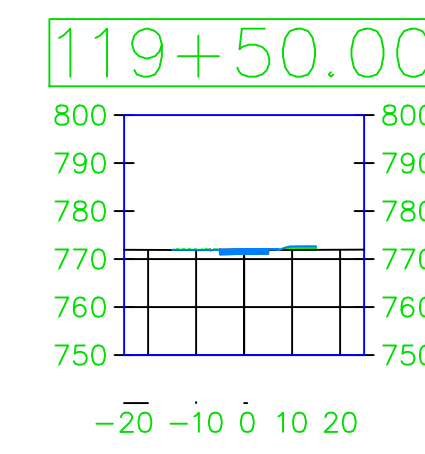
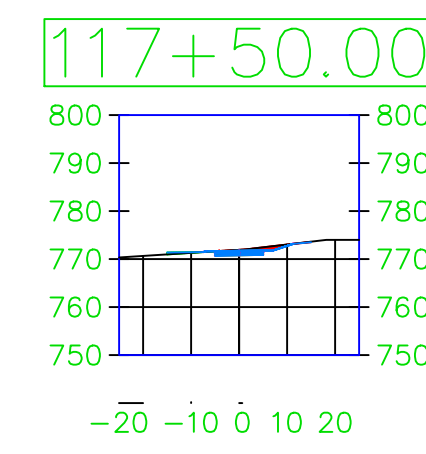
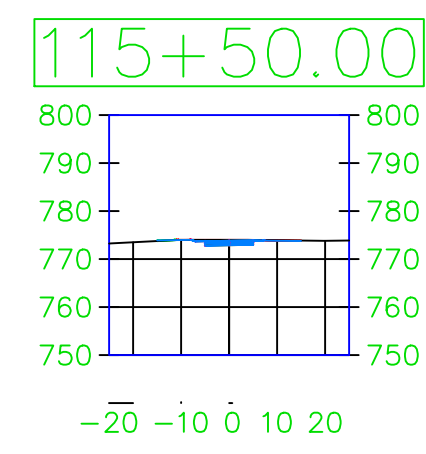
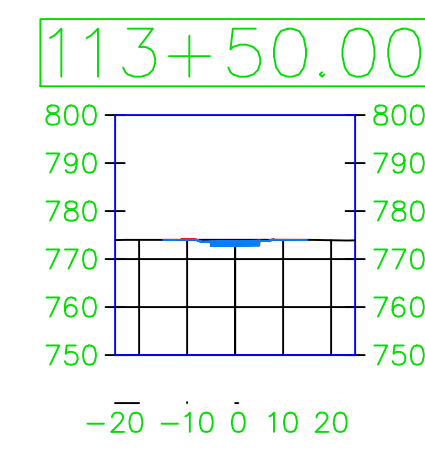
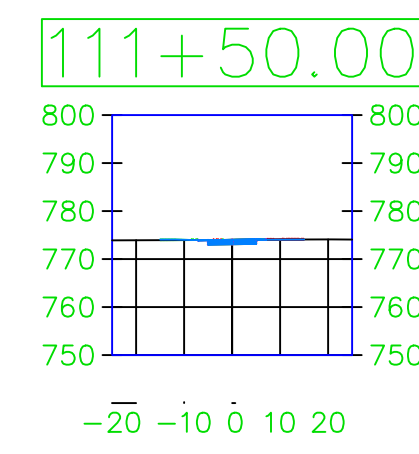
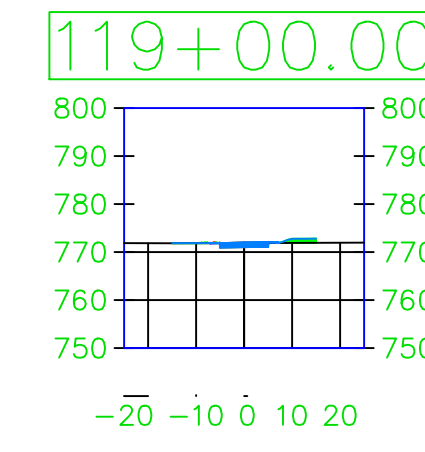
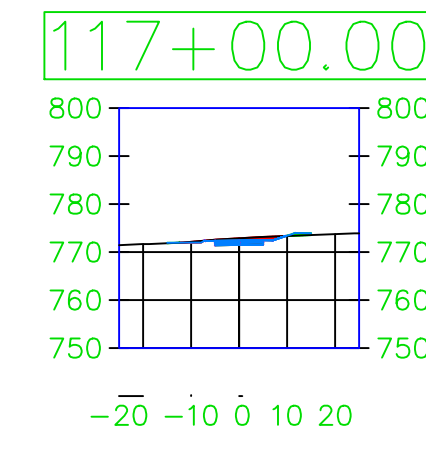
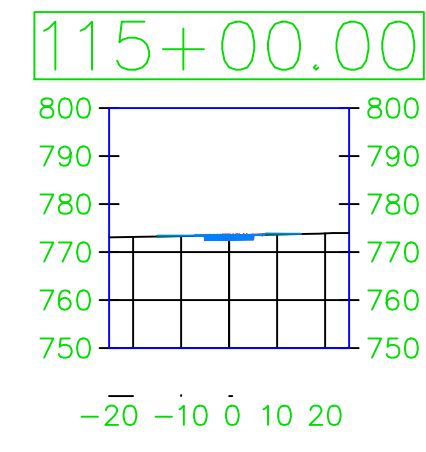
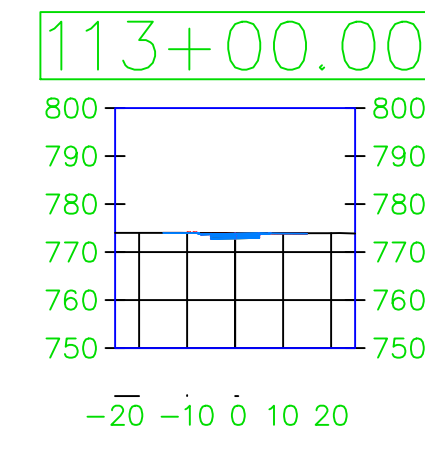
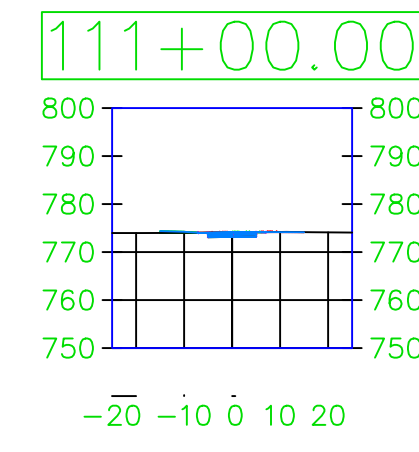
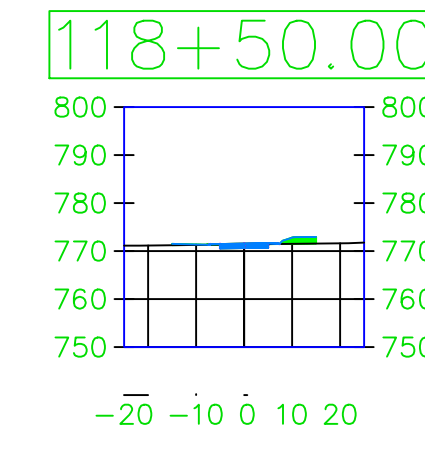
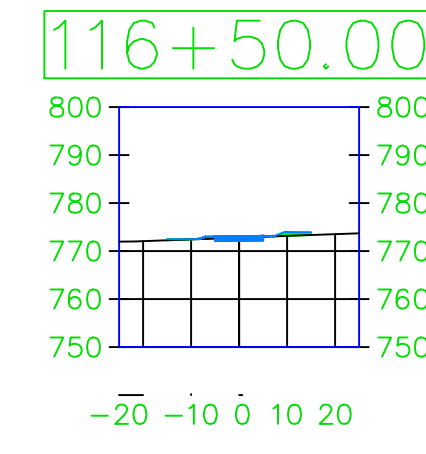
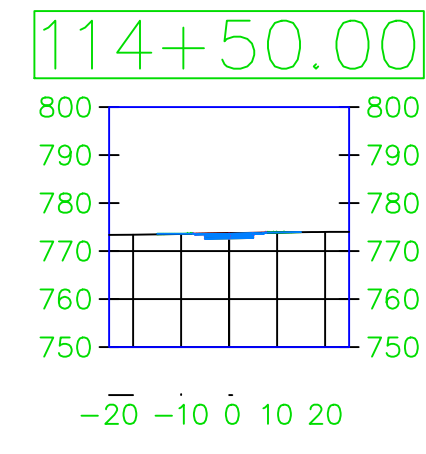
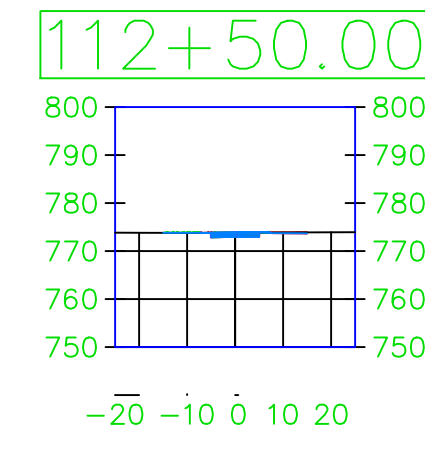
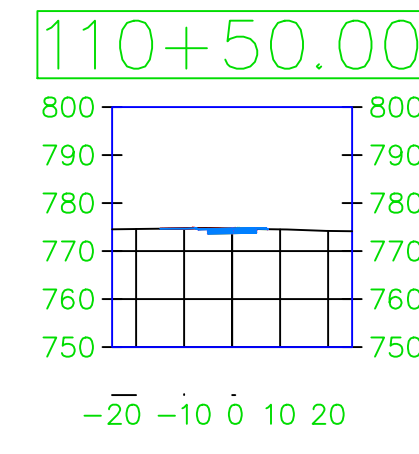
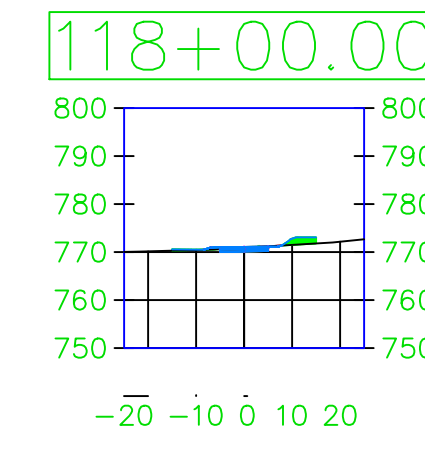
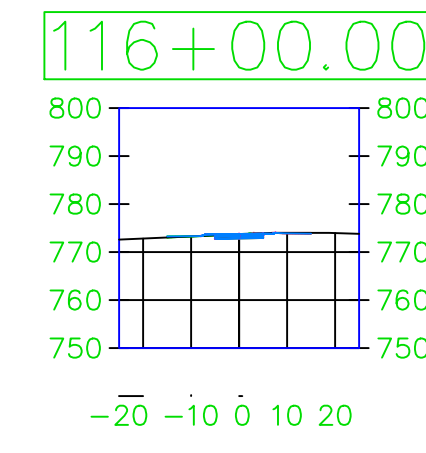
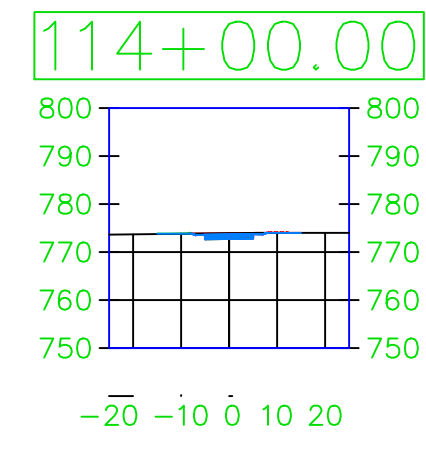
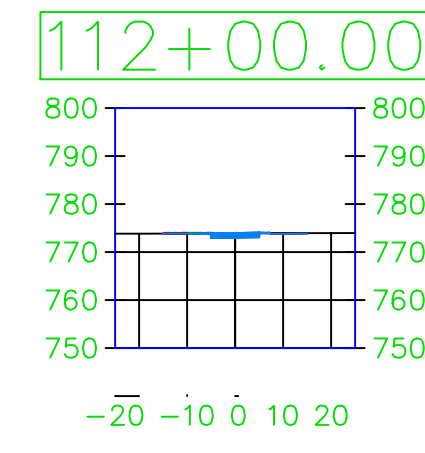
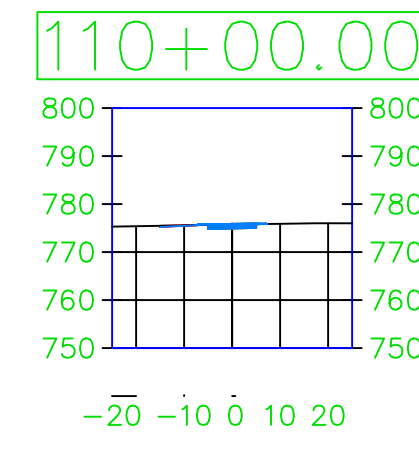


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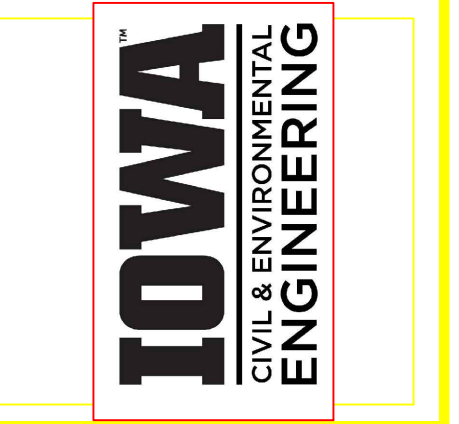
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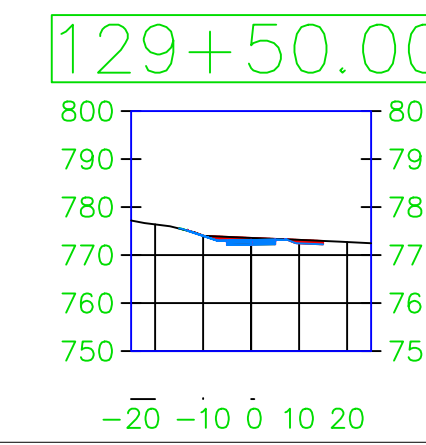
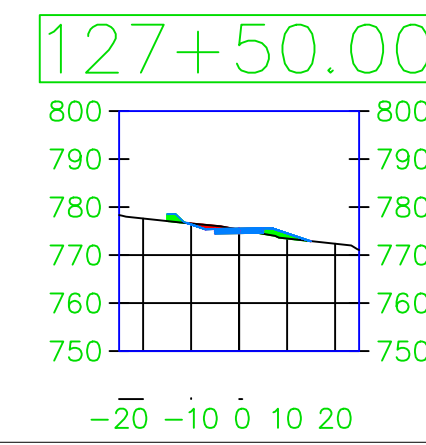
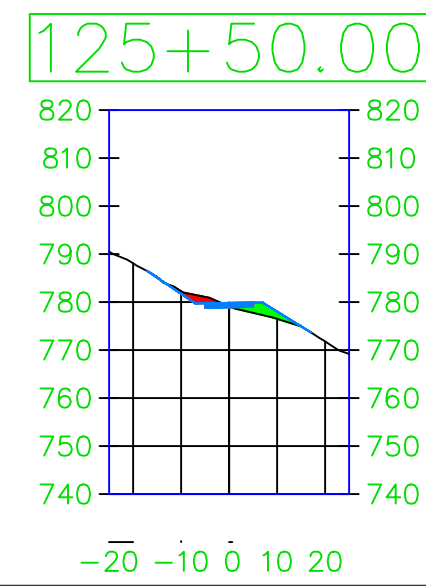
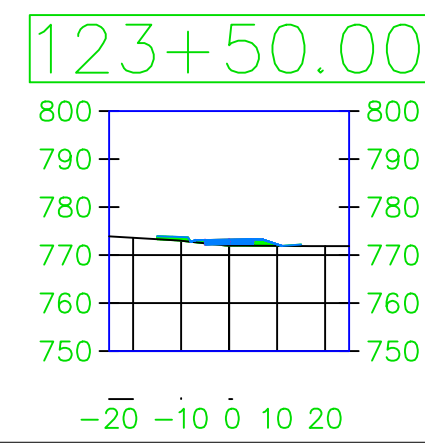
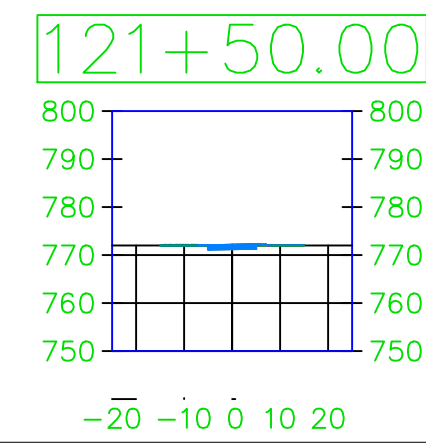
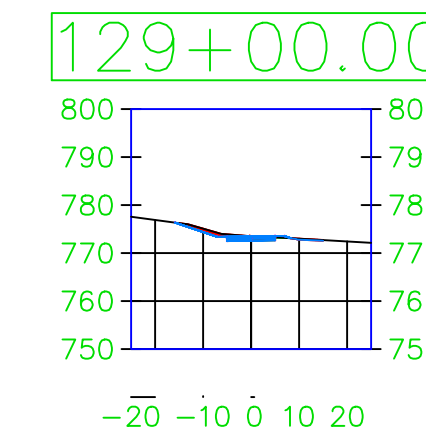
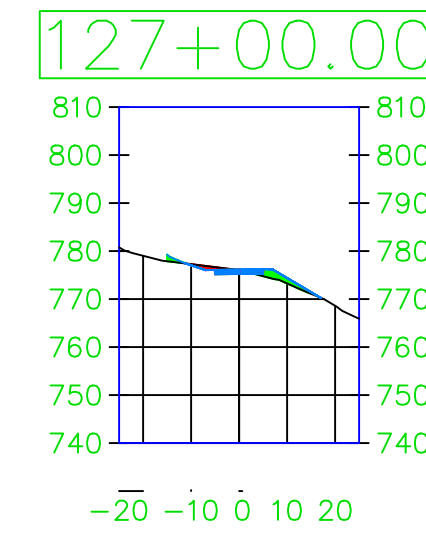
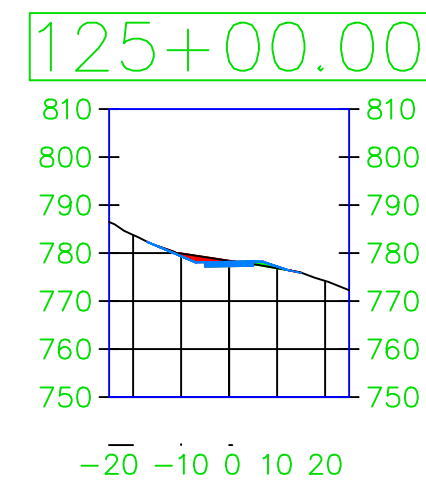
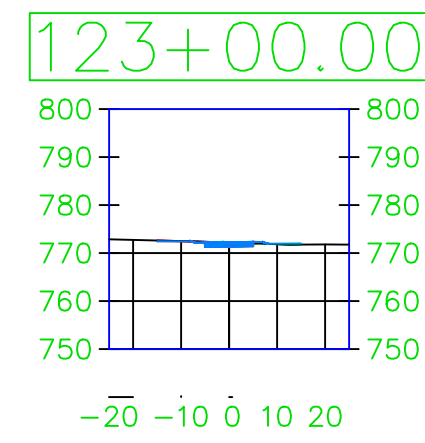
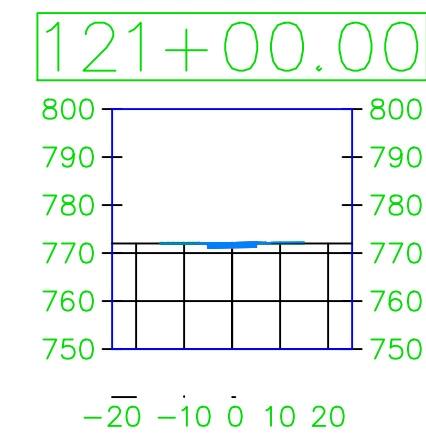
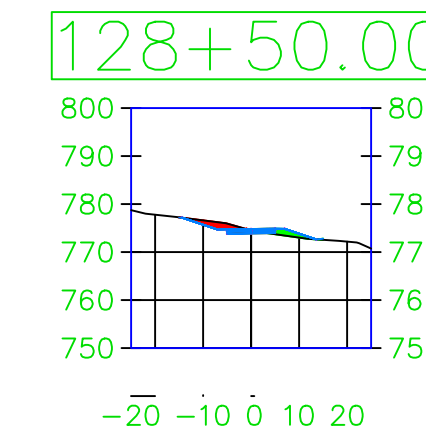
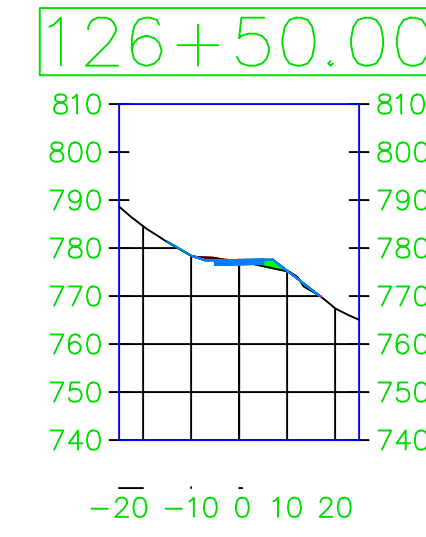
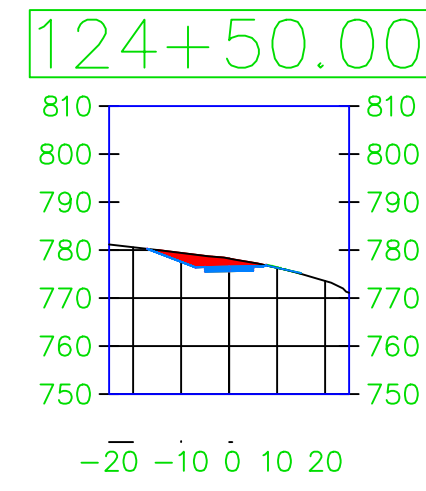
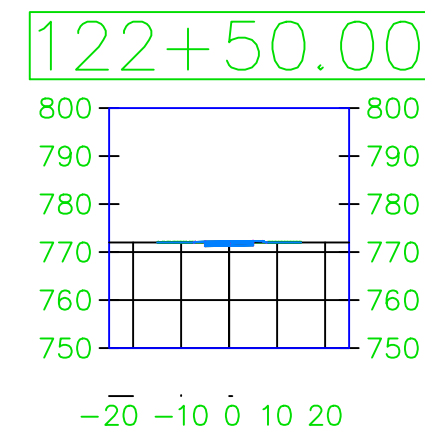
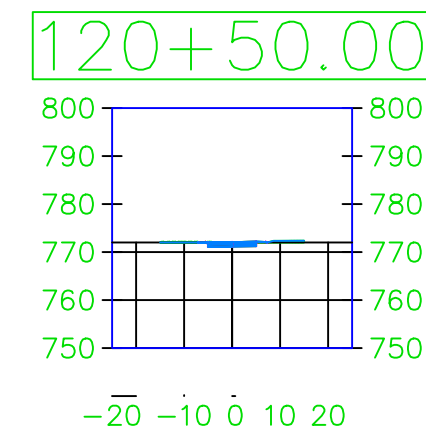
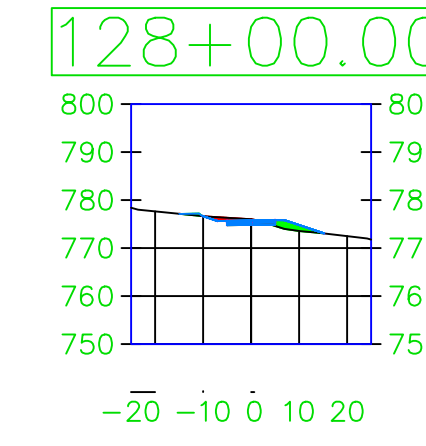
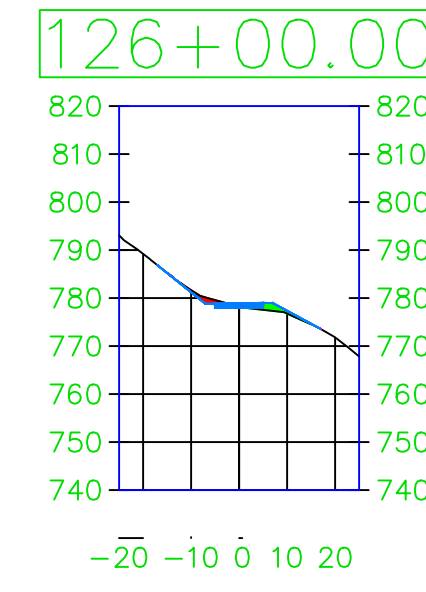
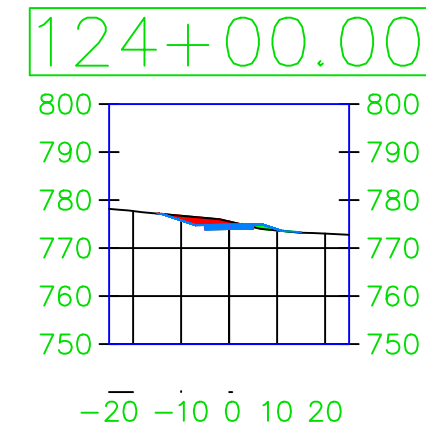
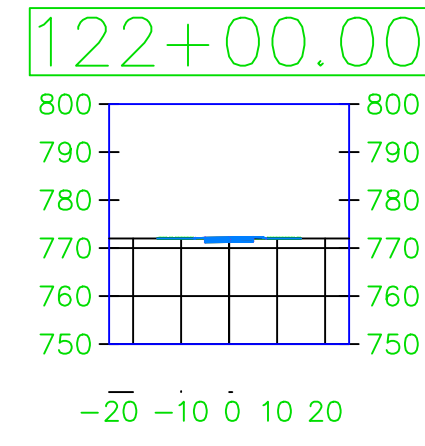
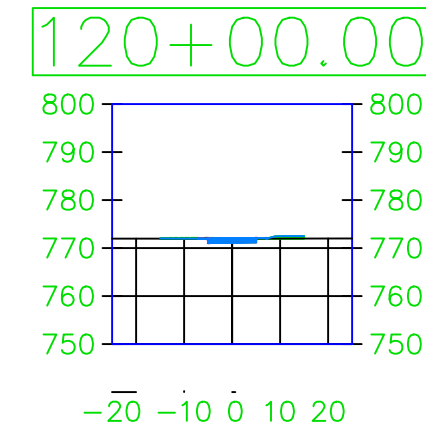


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Volga Trail

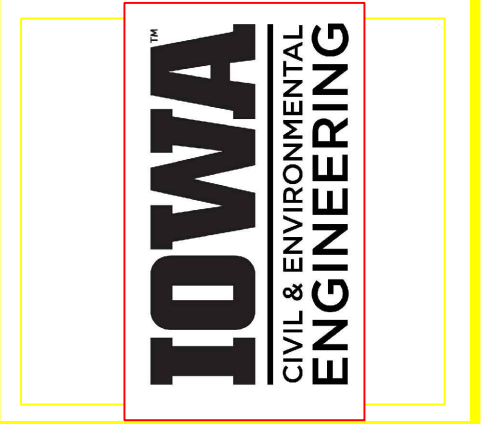
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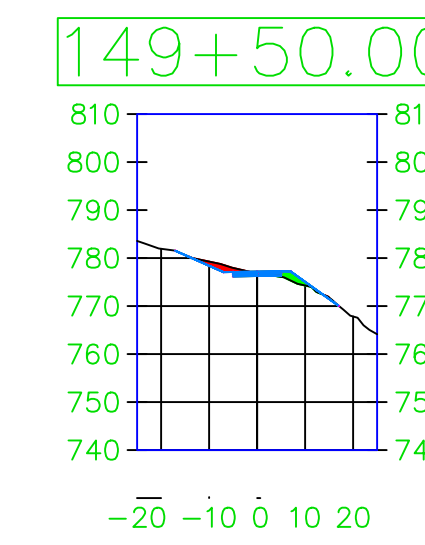
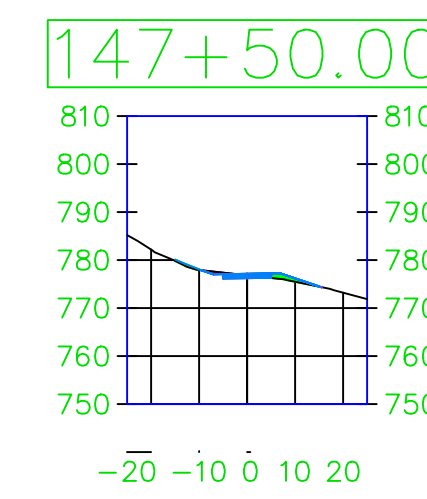
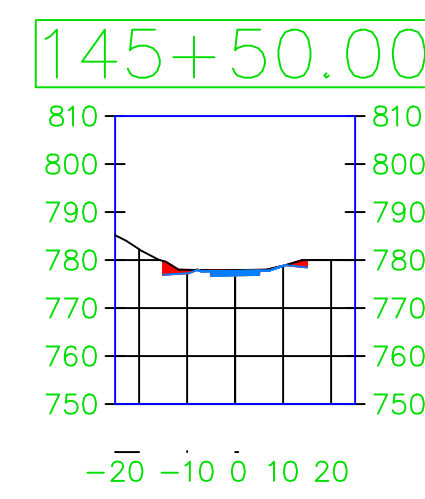
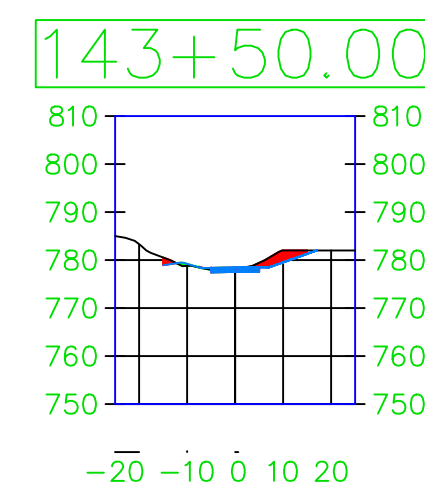
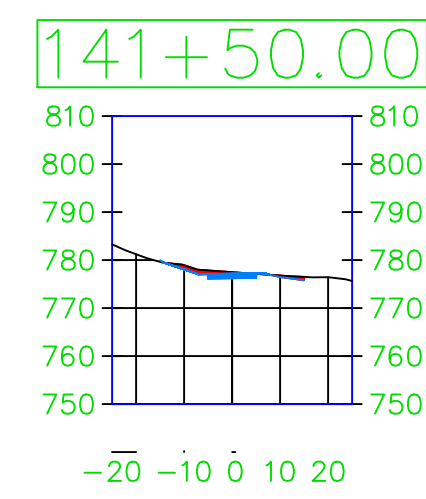
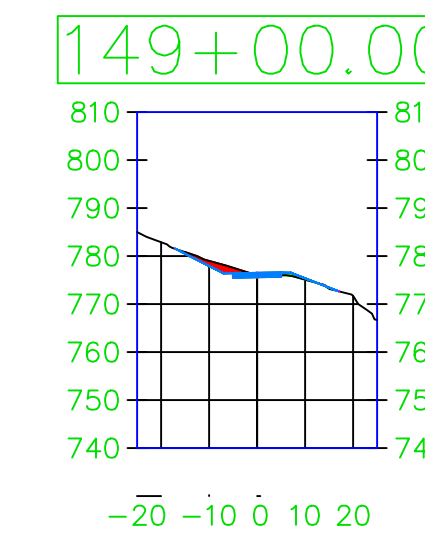
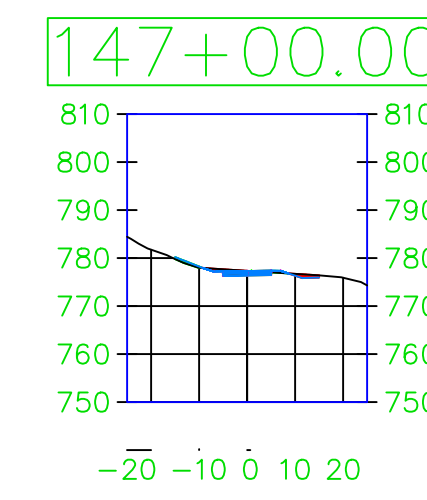
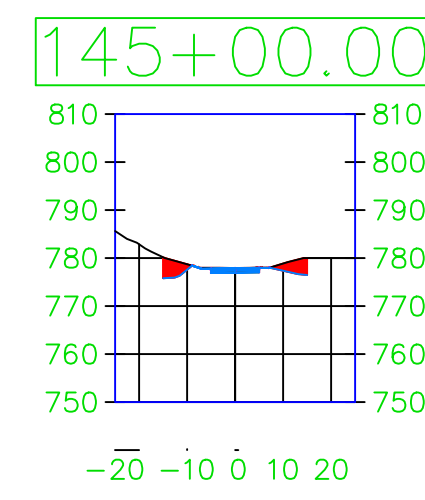
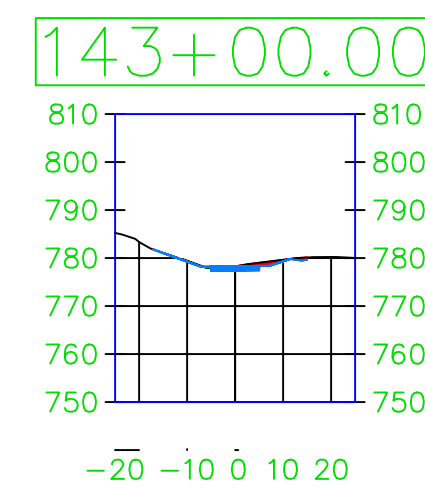
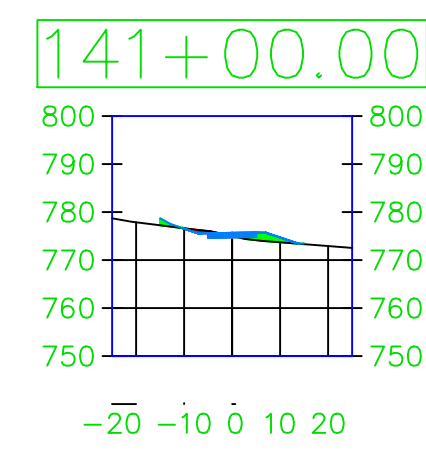
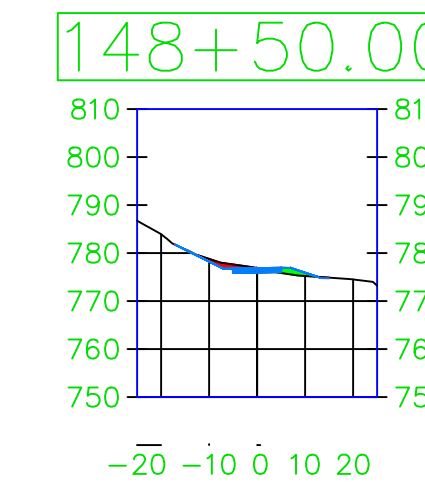
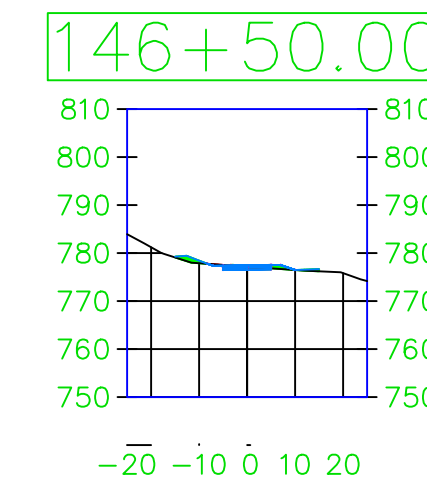
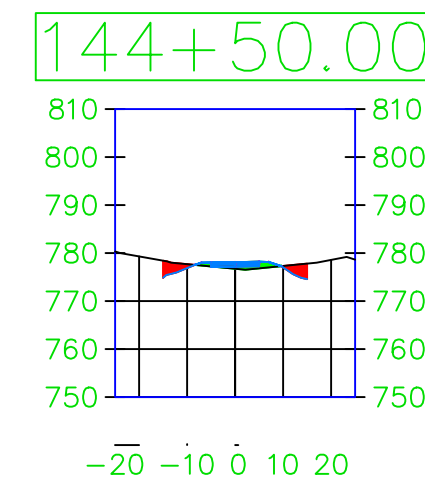
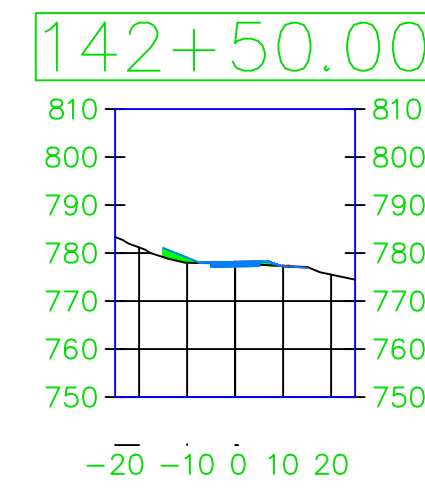
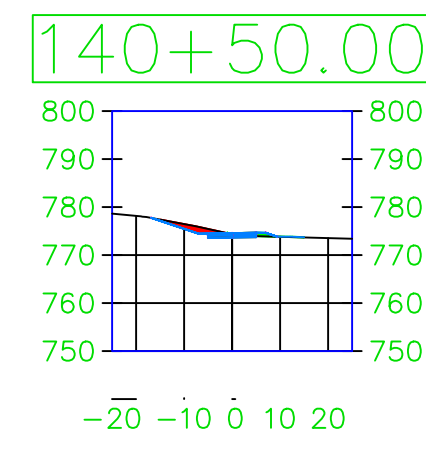
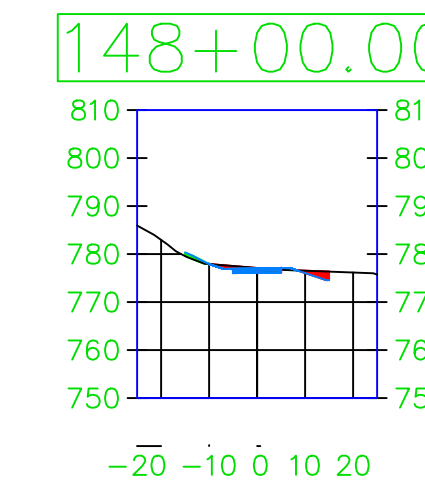
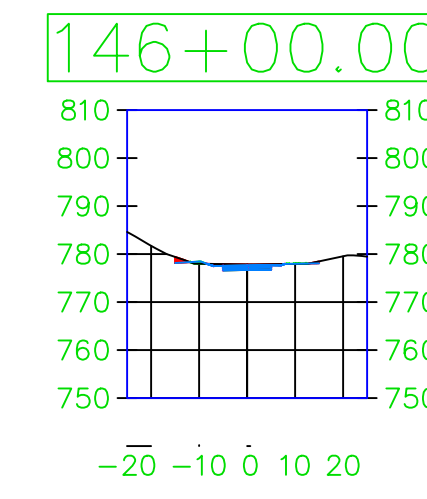
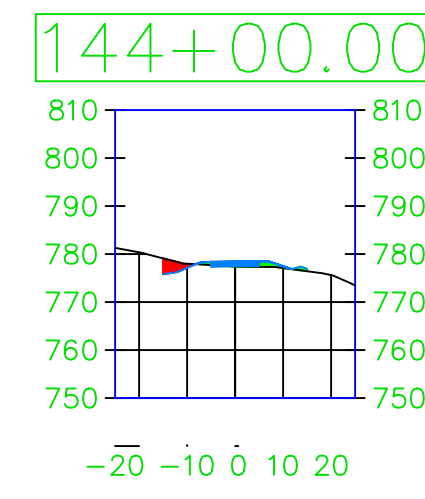
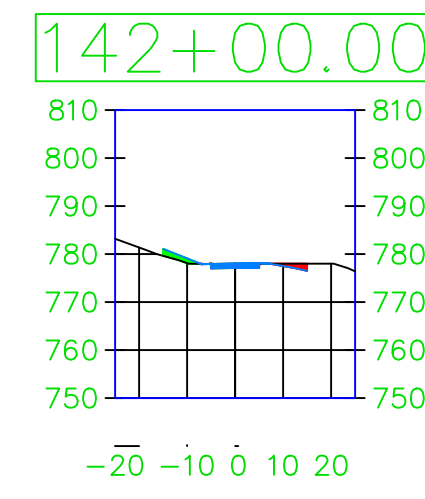
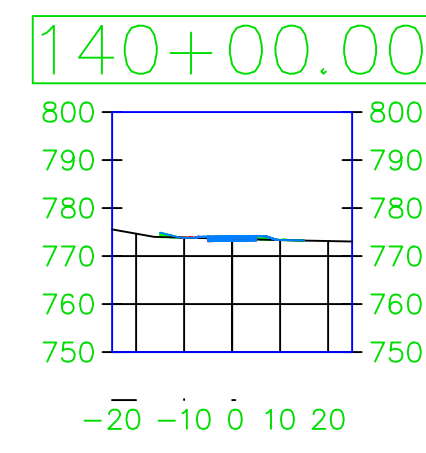


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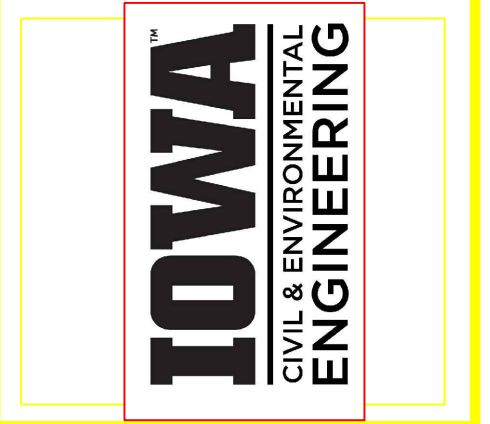
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 REVISION:

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



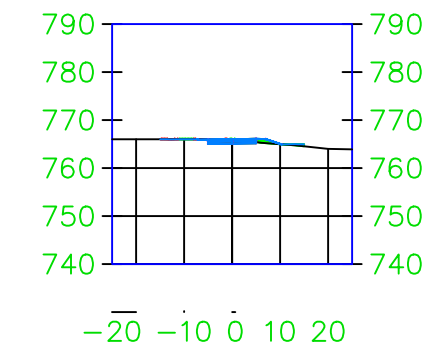
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Volga Trail

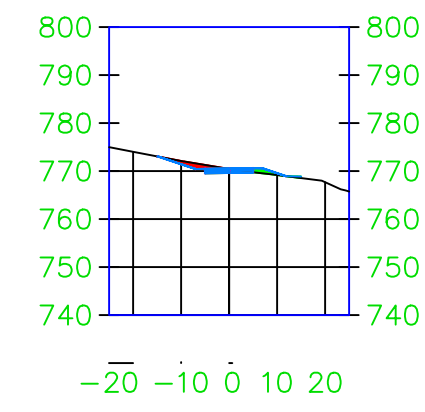
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 SHEET NAME 2

SHEET NO.
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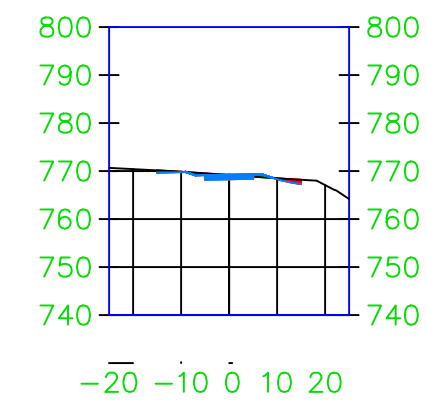
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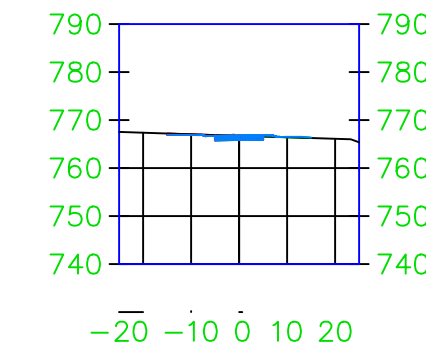
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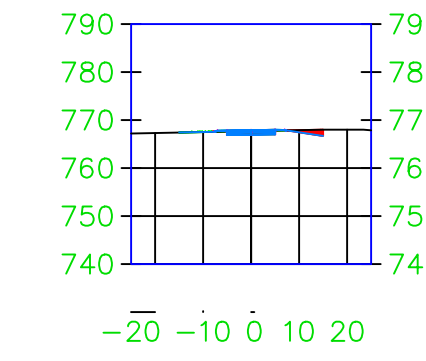
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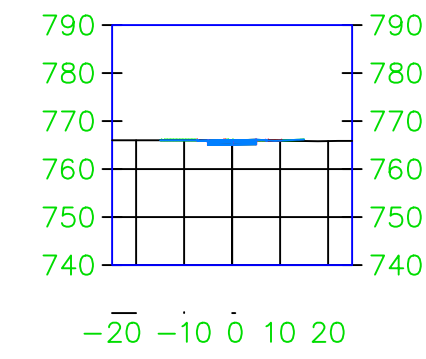
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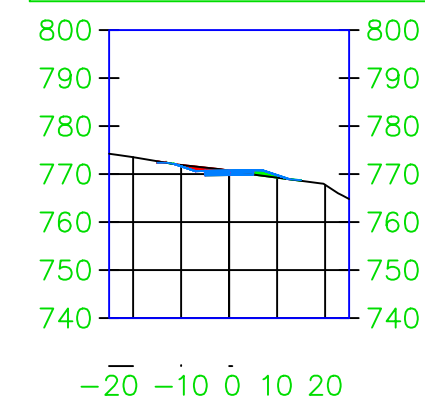
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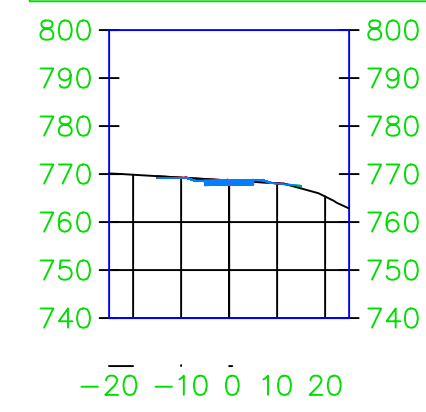
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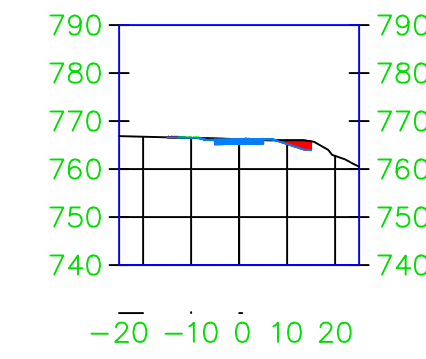
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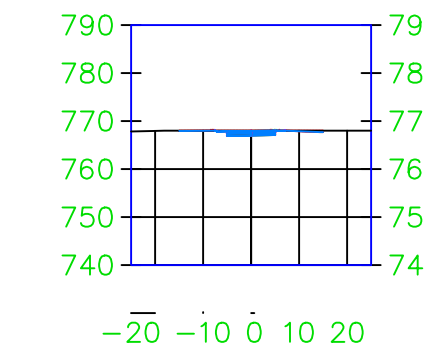
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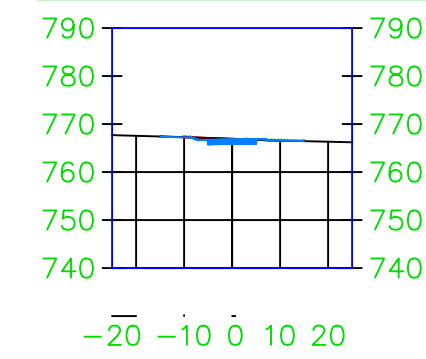
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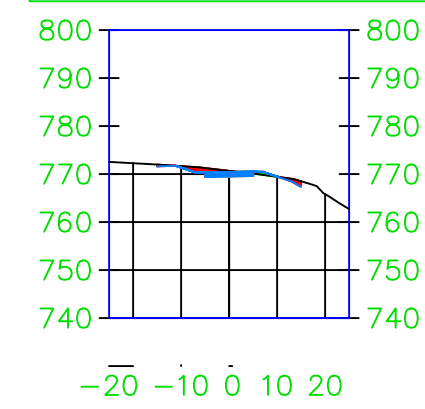
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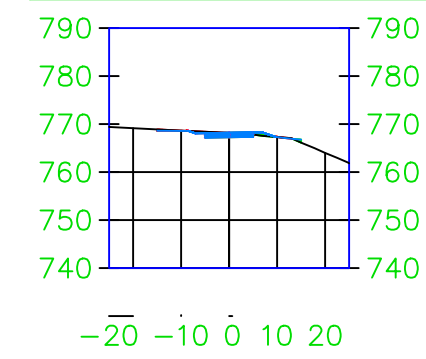
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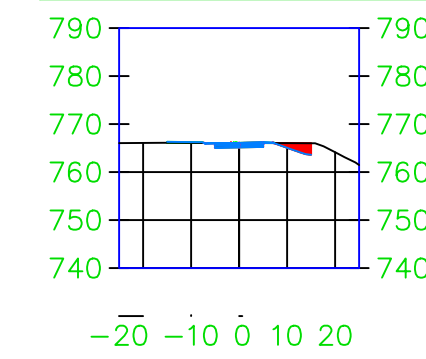
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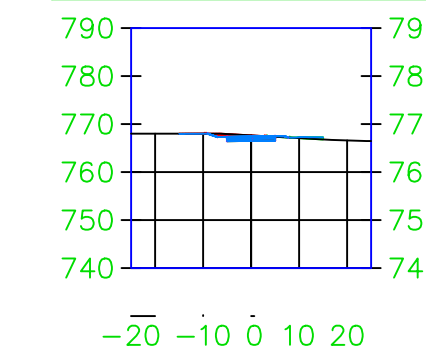
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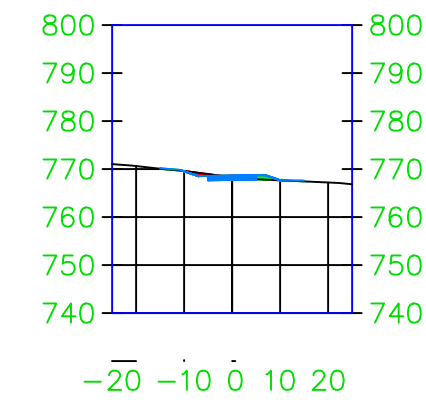
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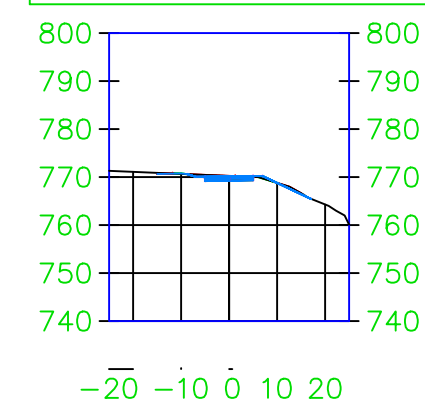
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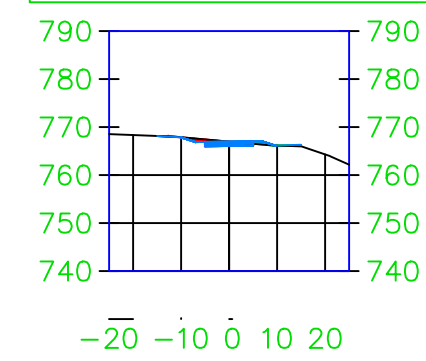
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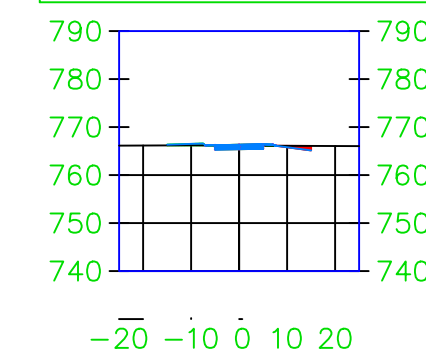
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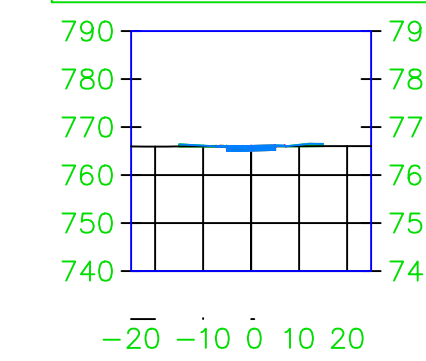
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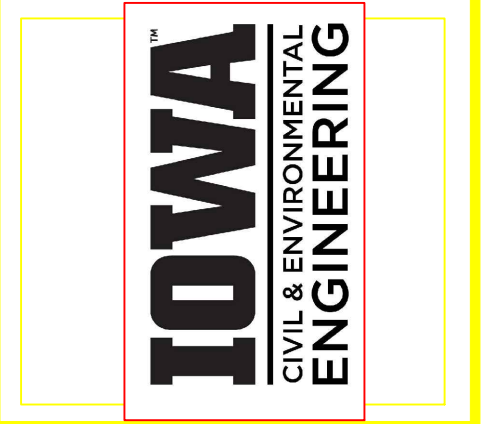


179+50.00



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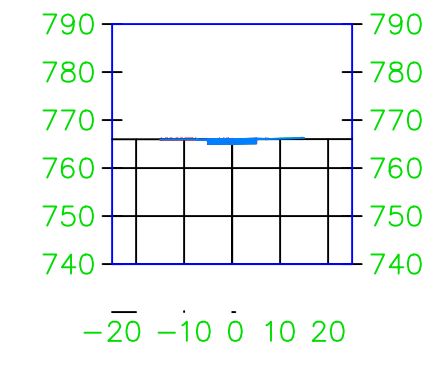
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Volga Trail

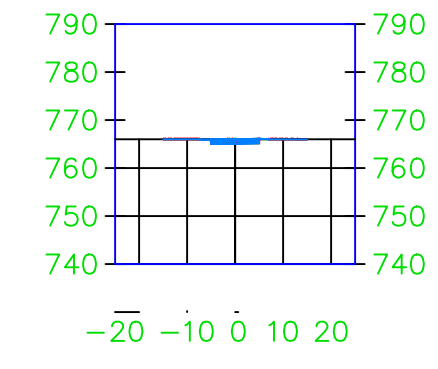
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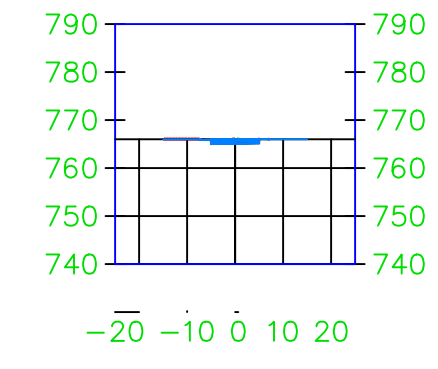
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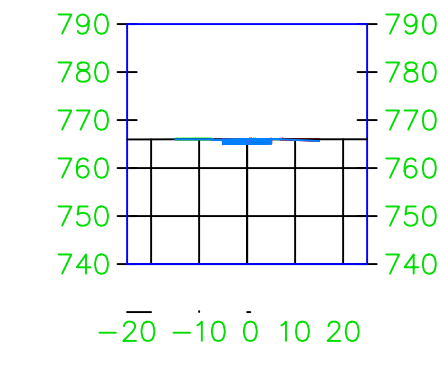
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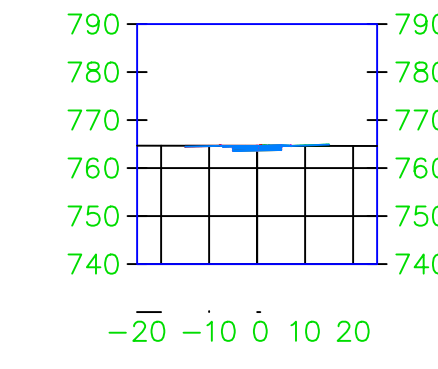
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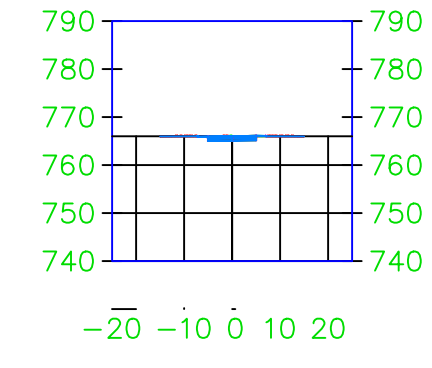
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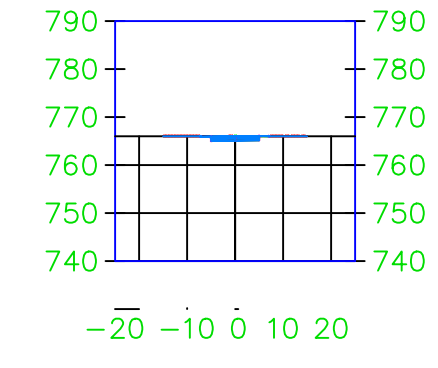
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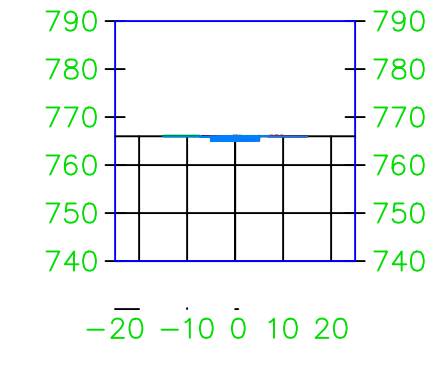
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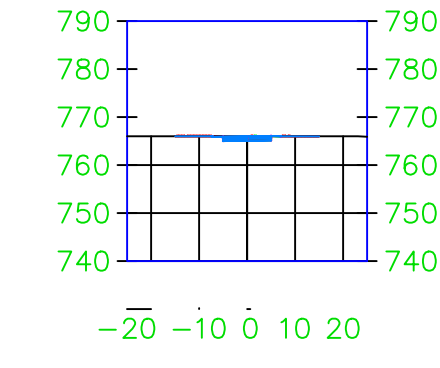
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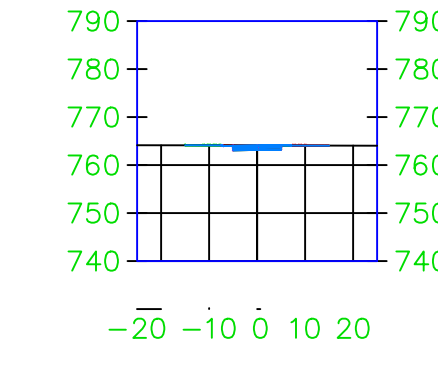
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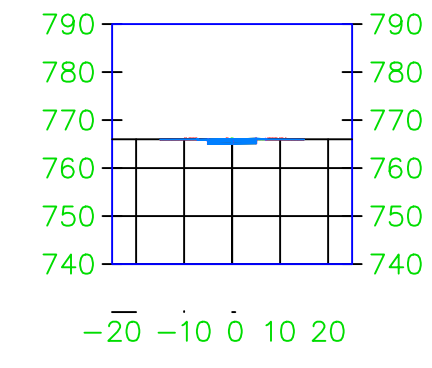
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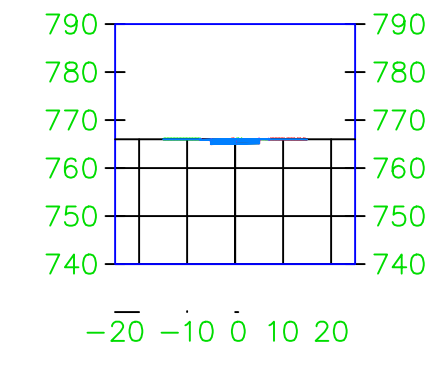
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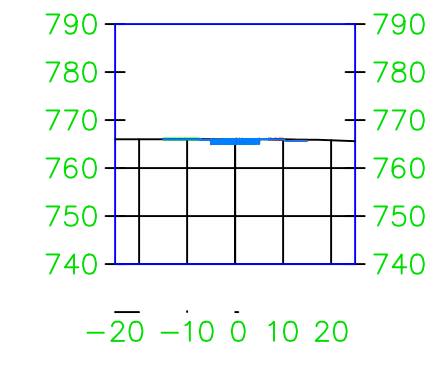
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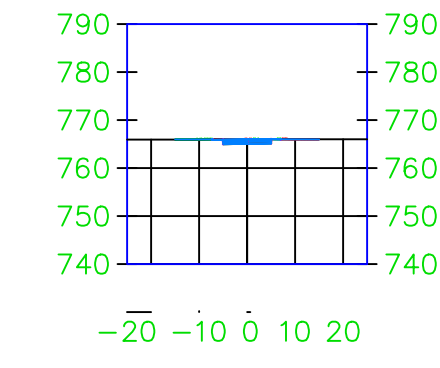
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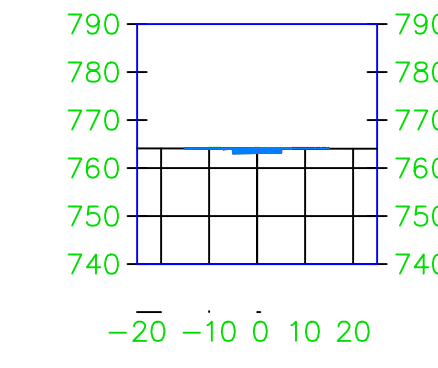
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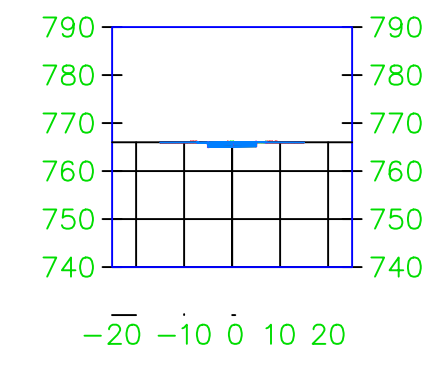
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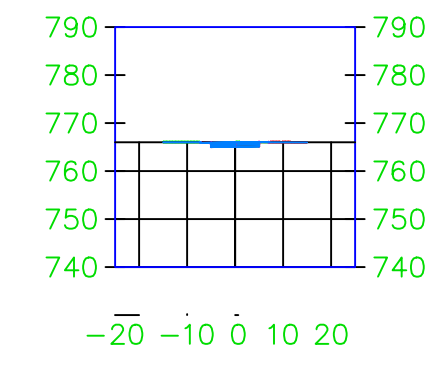
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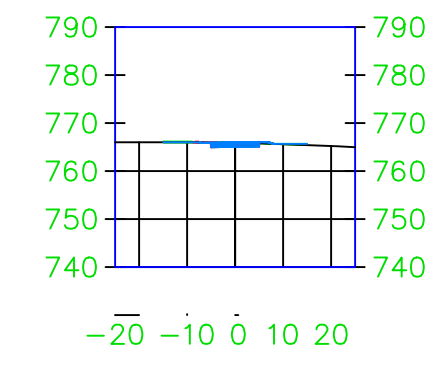
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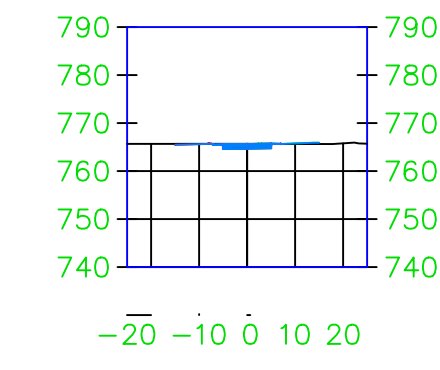
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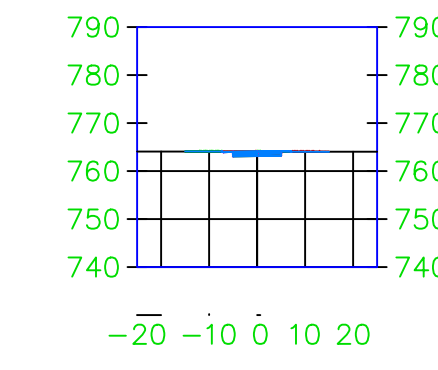
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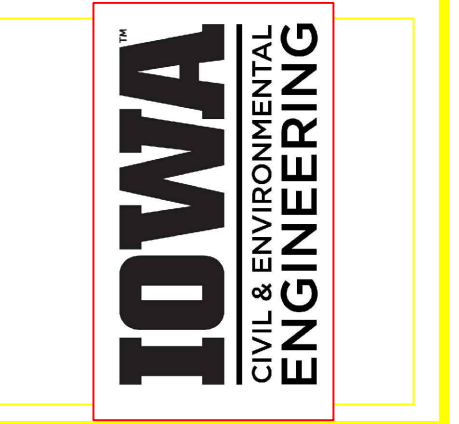


189+50.00



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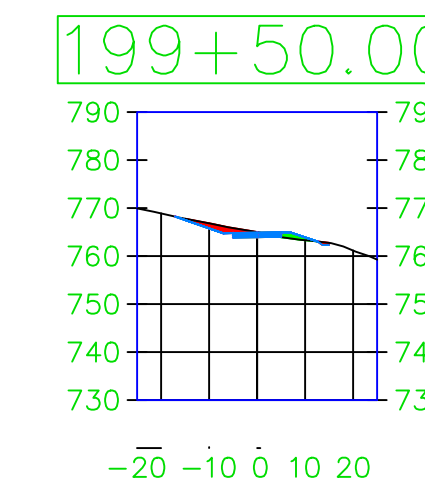
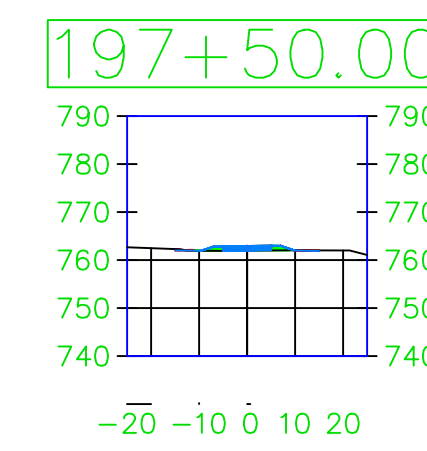
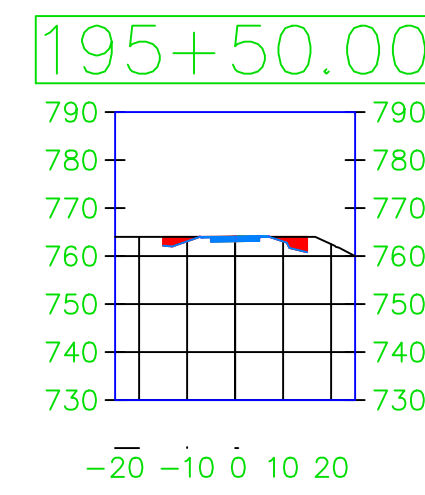
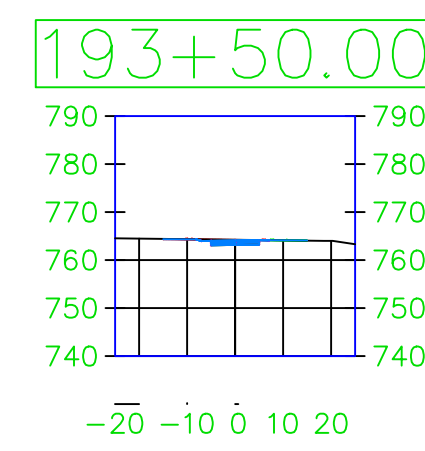
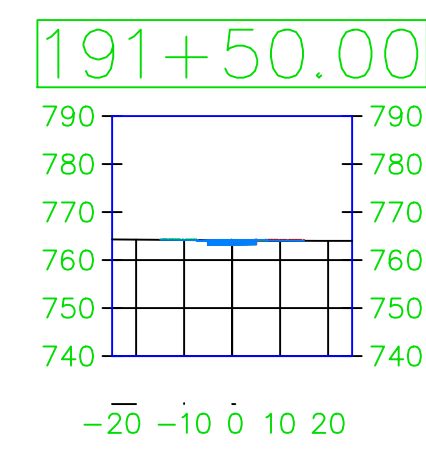
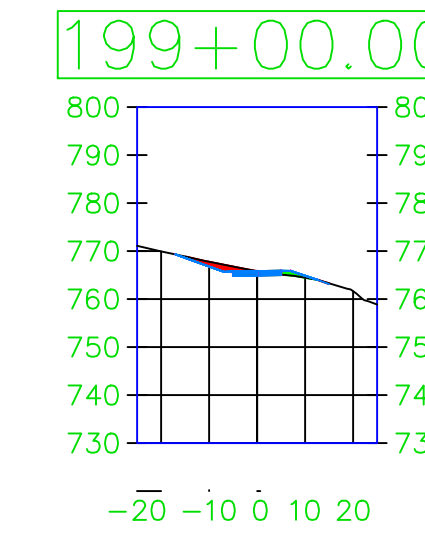
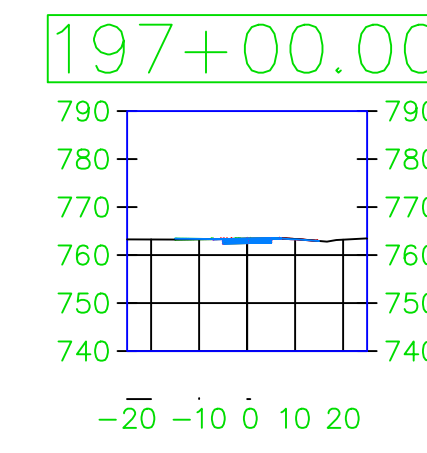
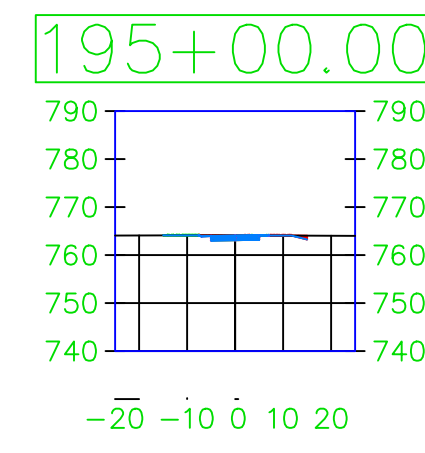
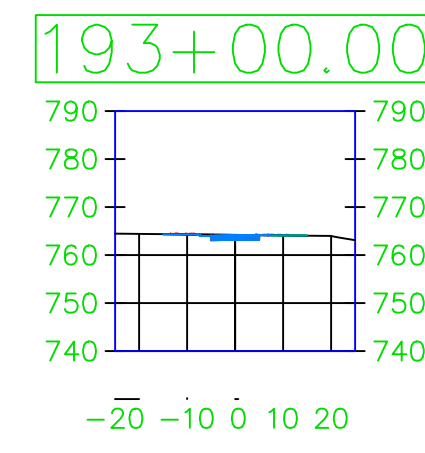
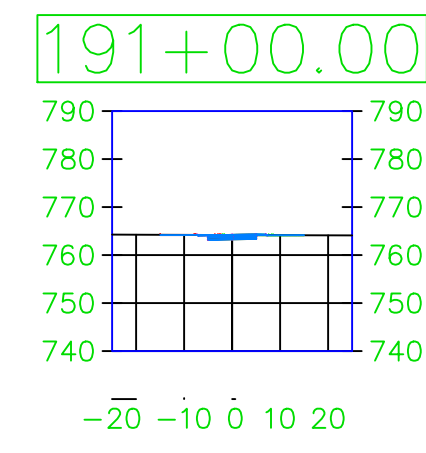
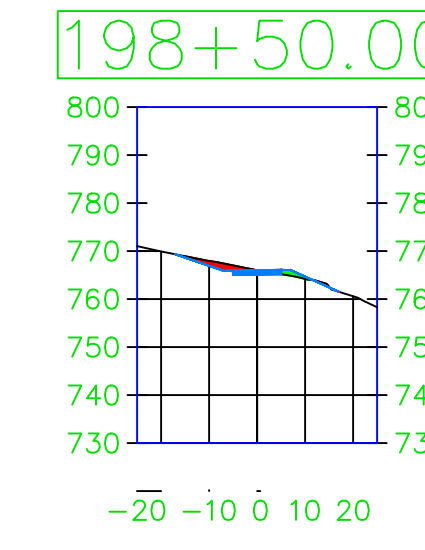
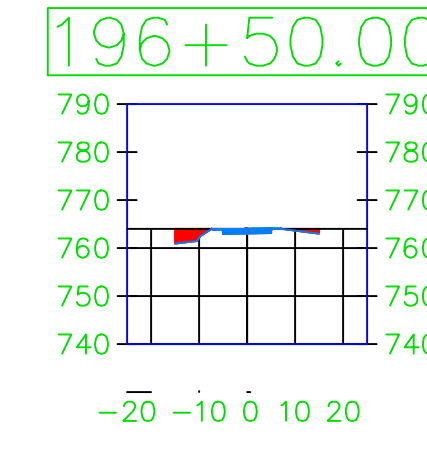
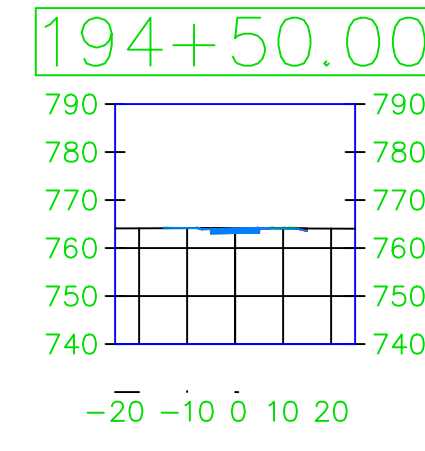
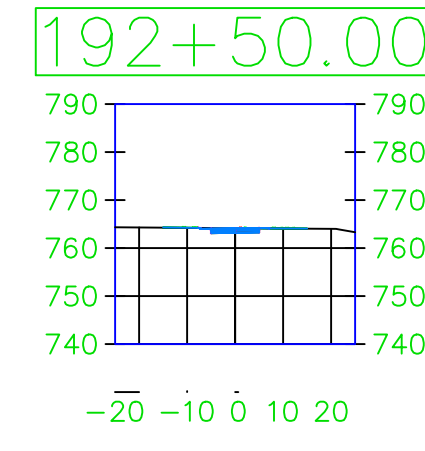
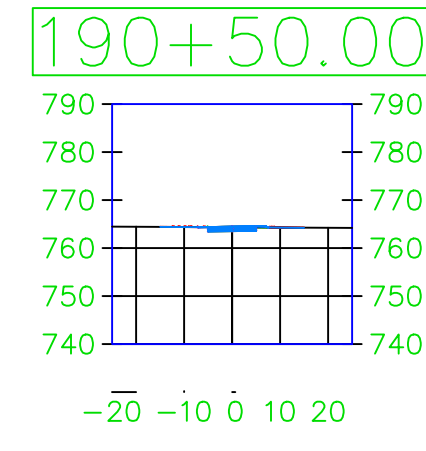
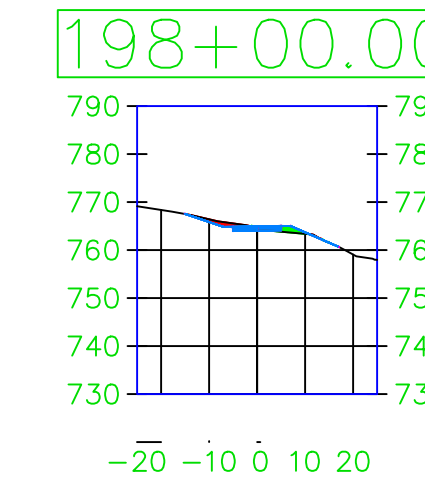
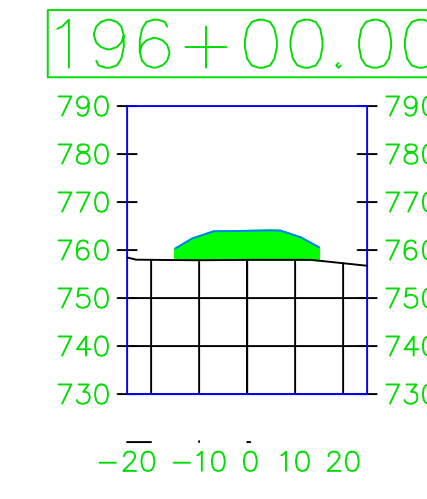
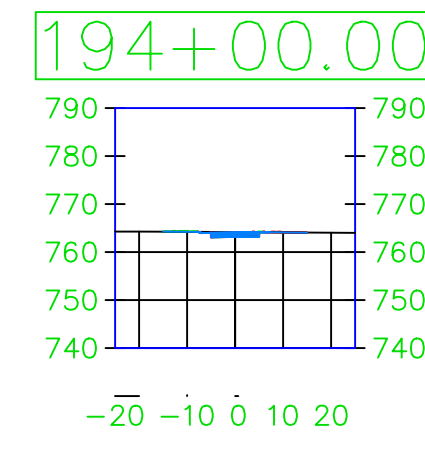
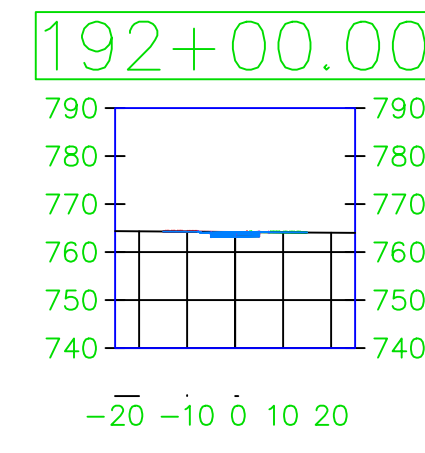
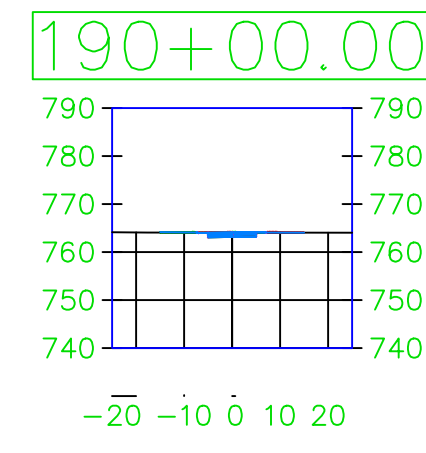


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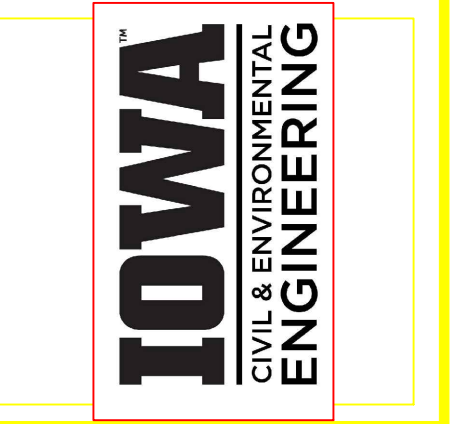
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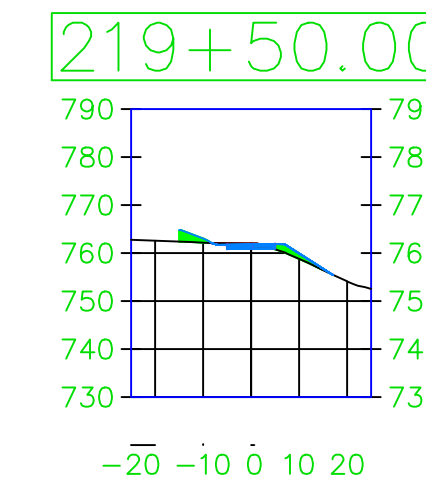
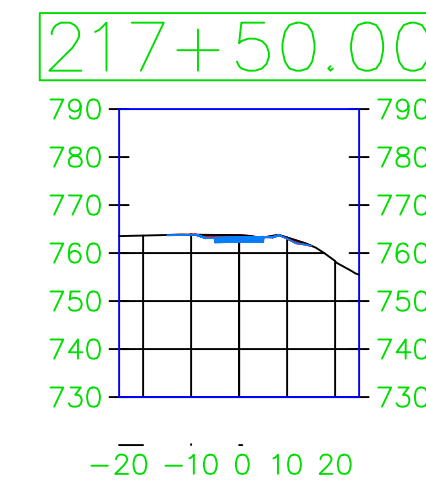
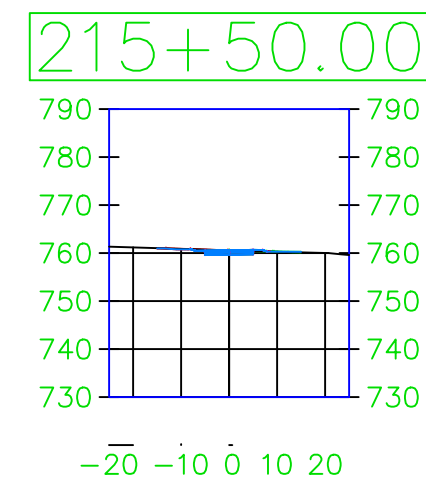
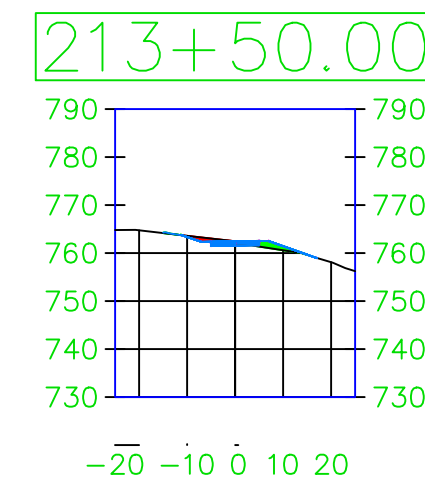
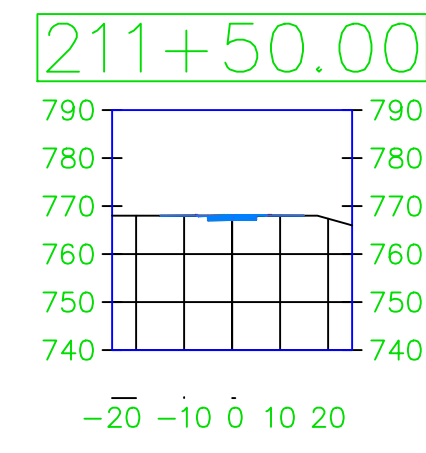
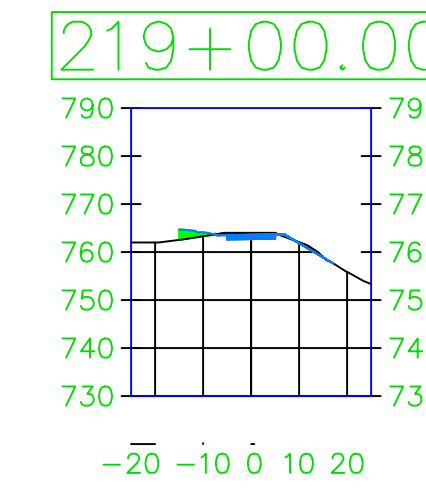
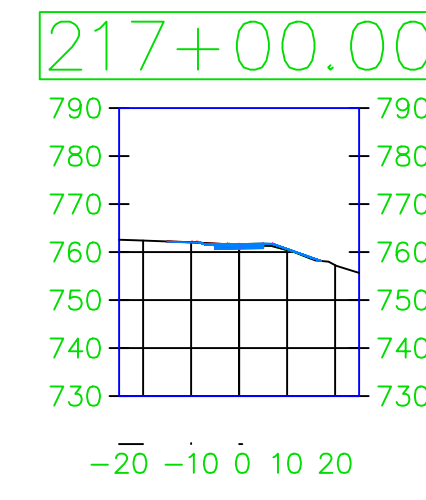
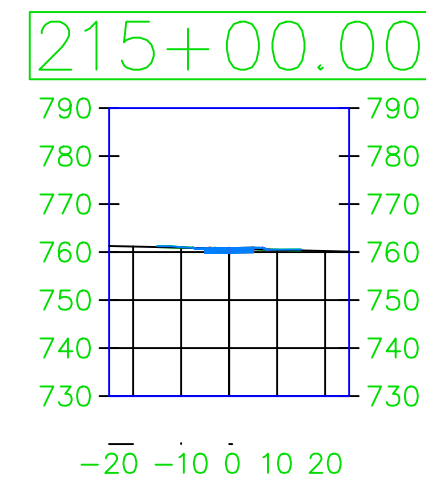
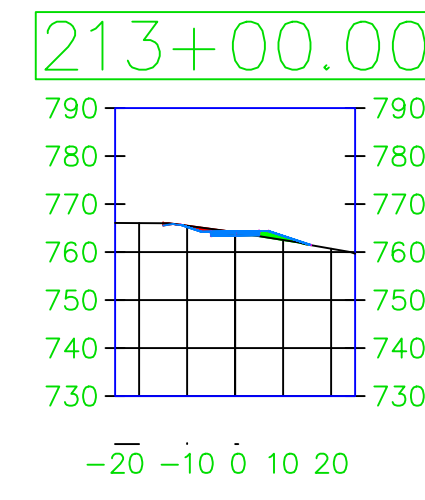
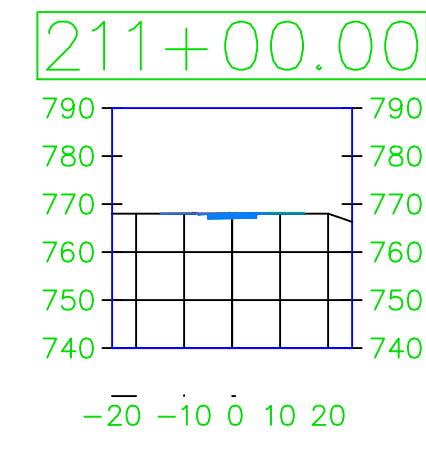
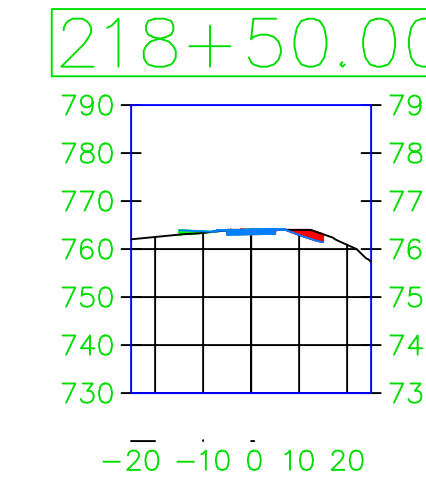
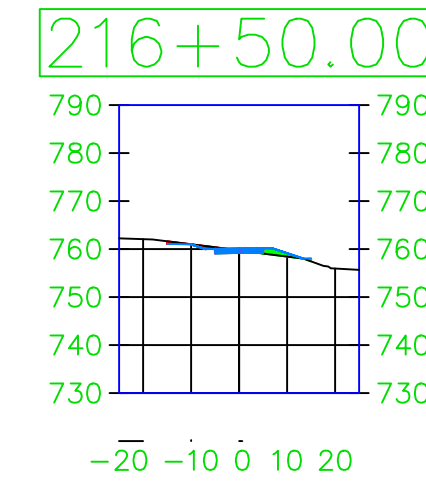
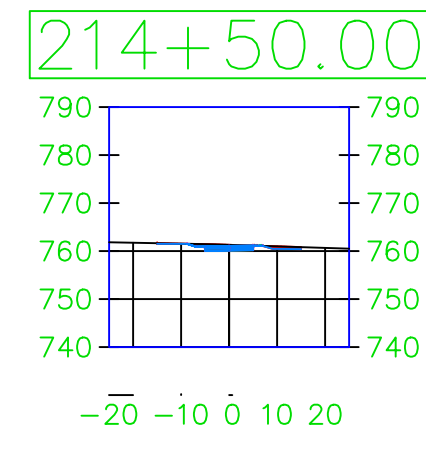
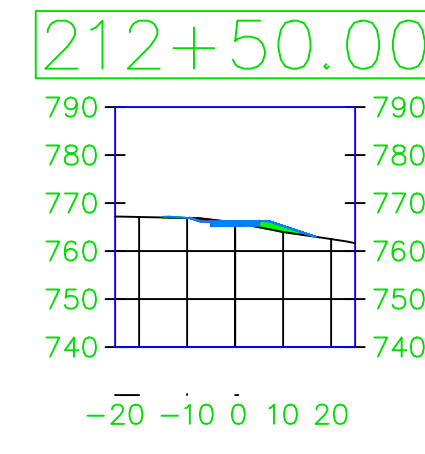
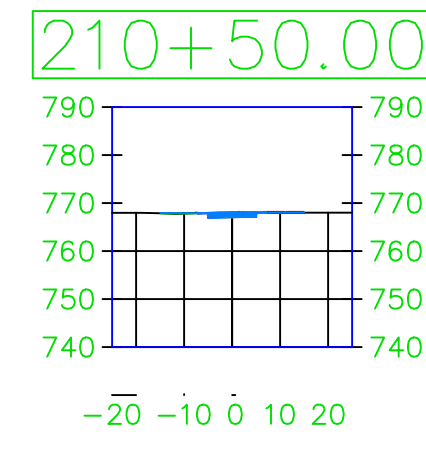
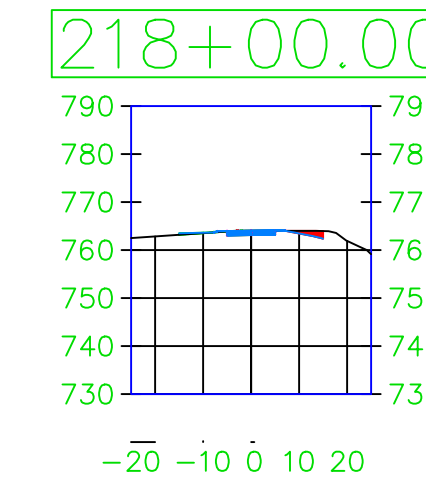
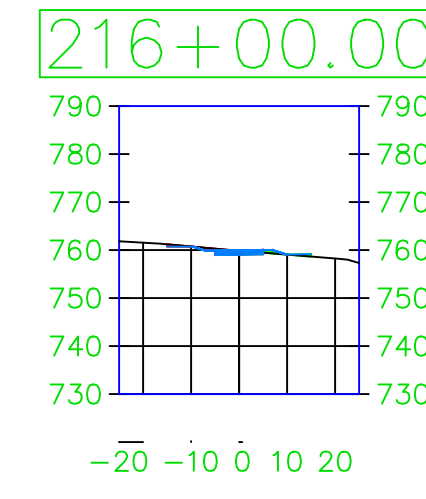
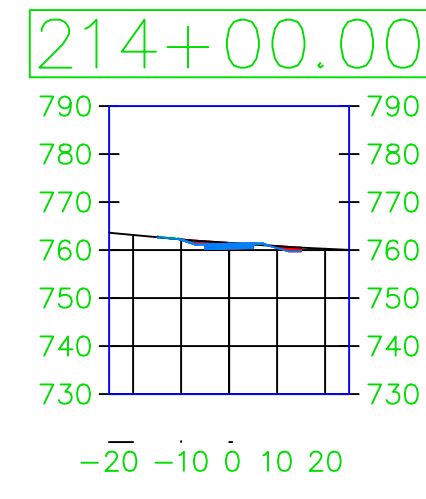
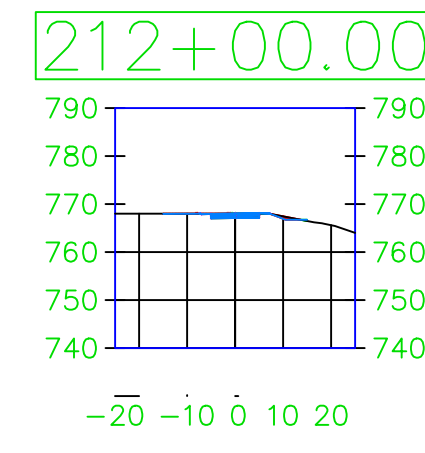
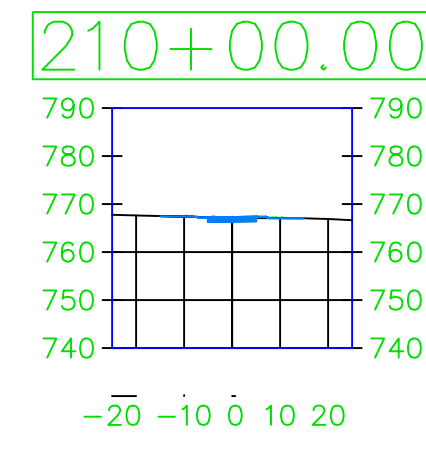


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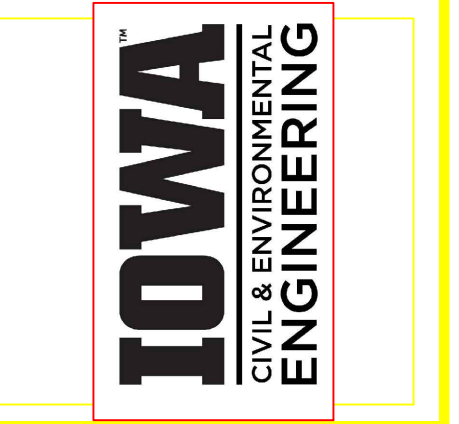
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 DATE: 4/17/2020
 DRAWN BY: cds
 REVISION:

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



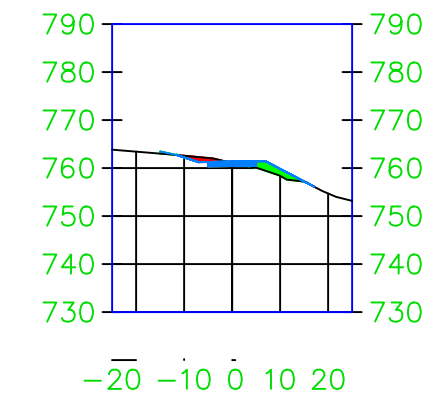
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Volga Trail

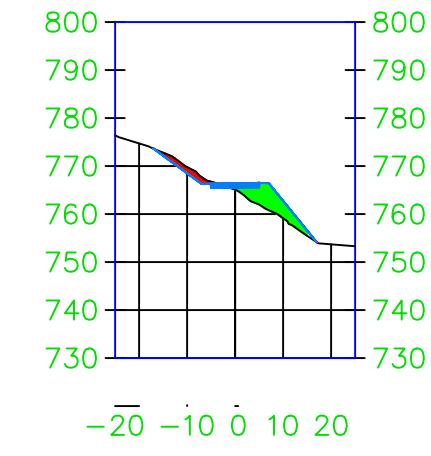
SHEET NAME
 SHEET NAME 1
 SHEET NAME 2

SHEET NO.
XX

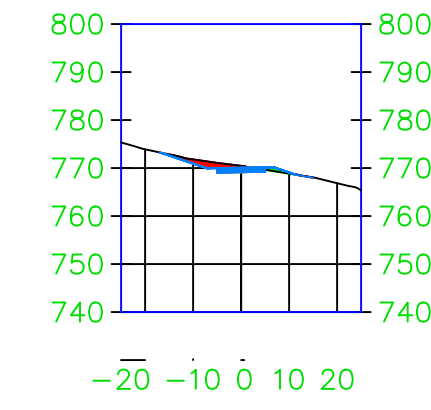
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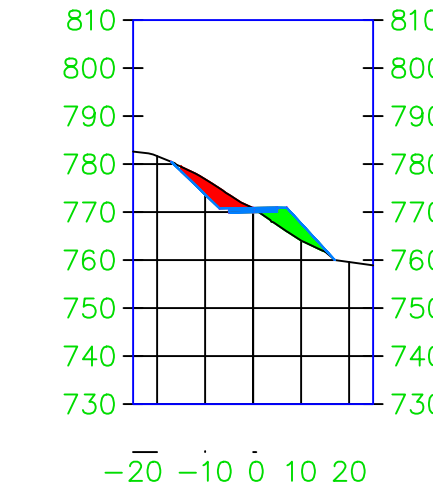
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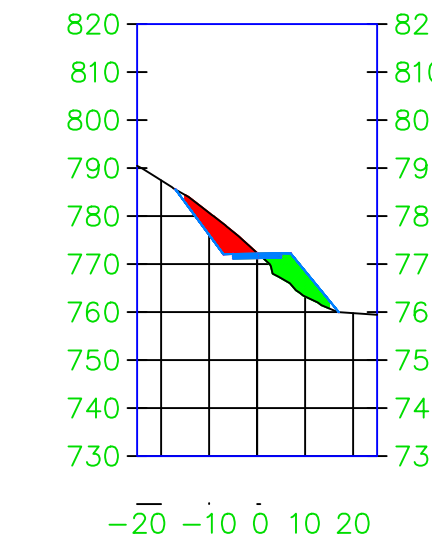
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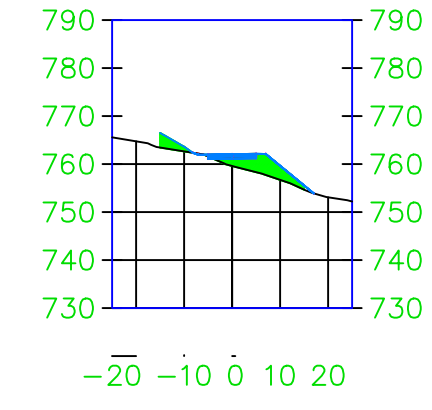
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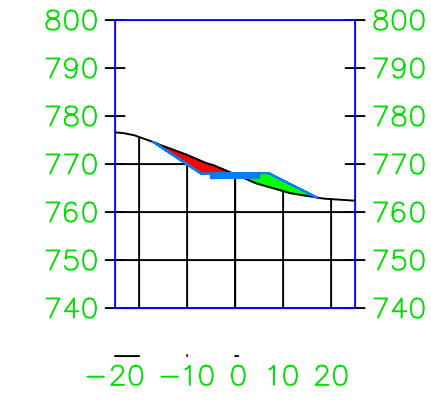
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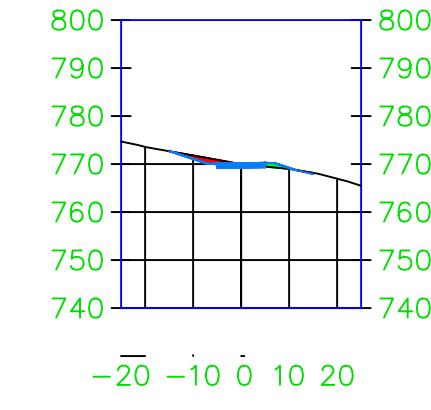
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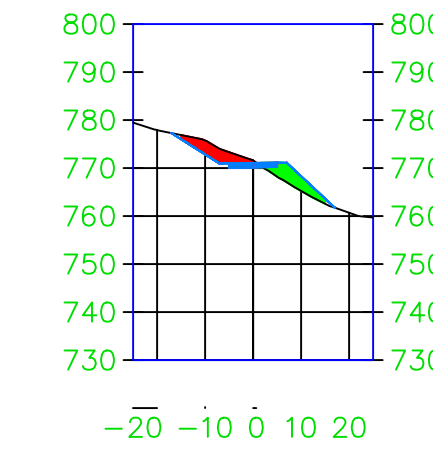
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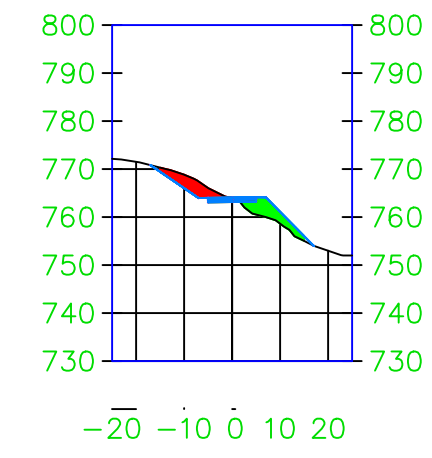
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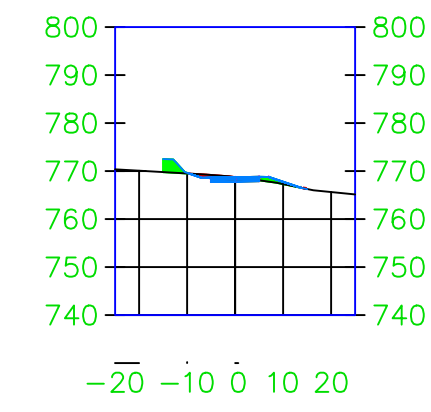
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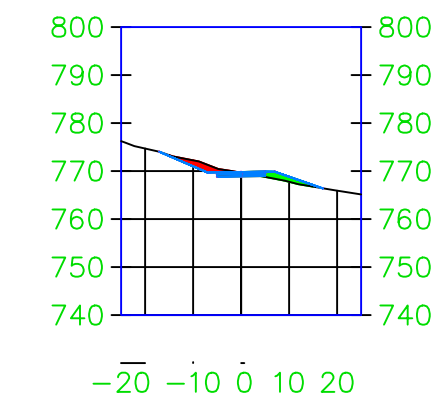
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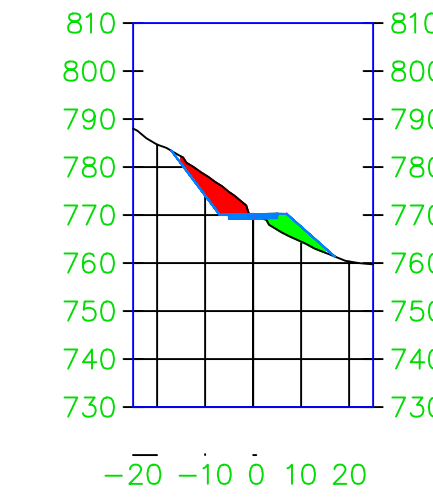
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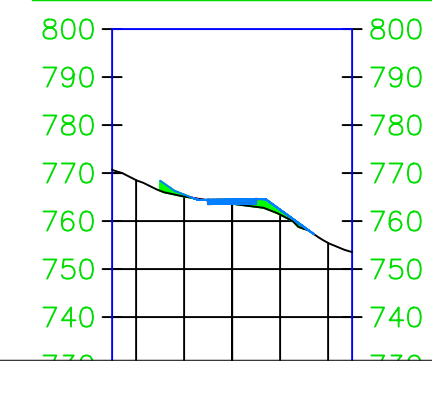
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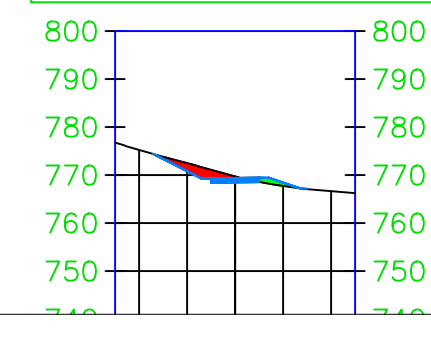
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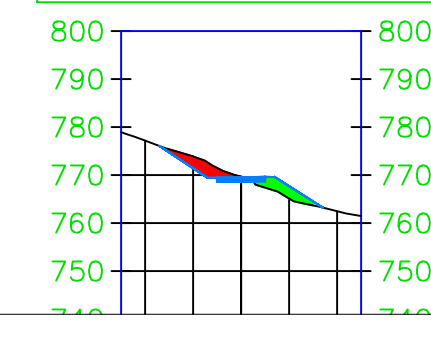
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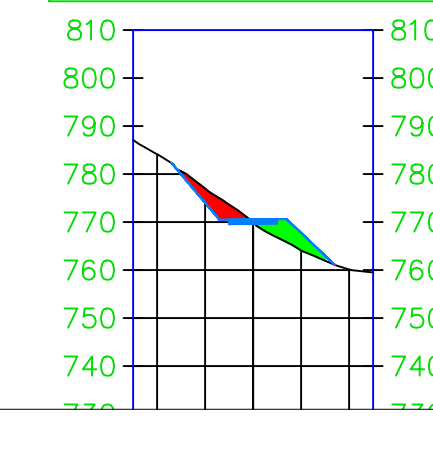
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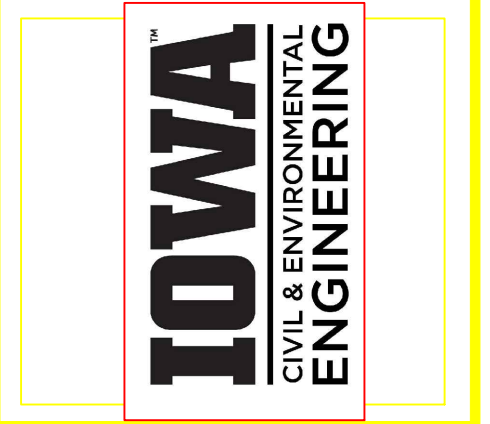


227+50.00



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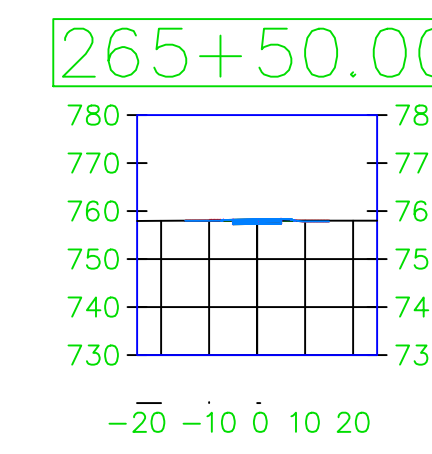
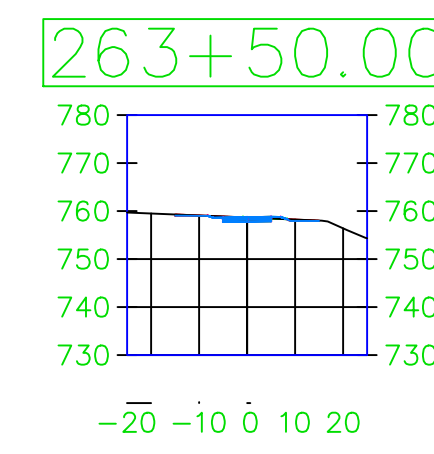
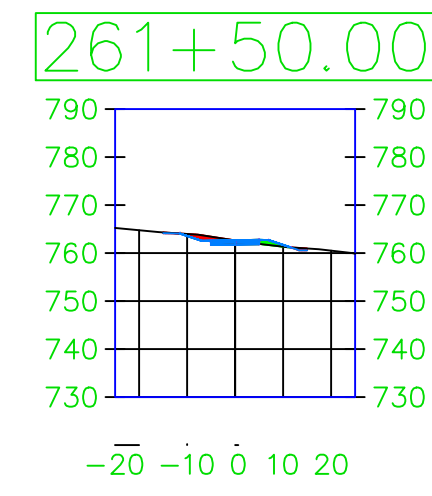
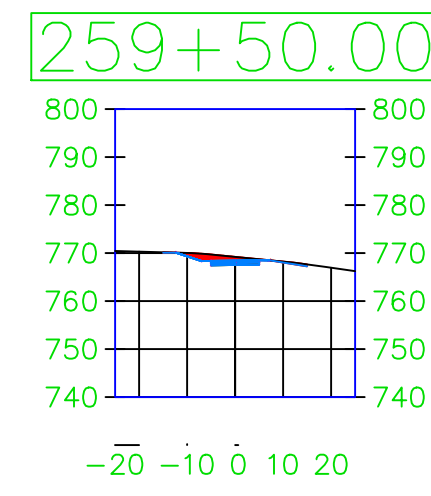
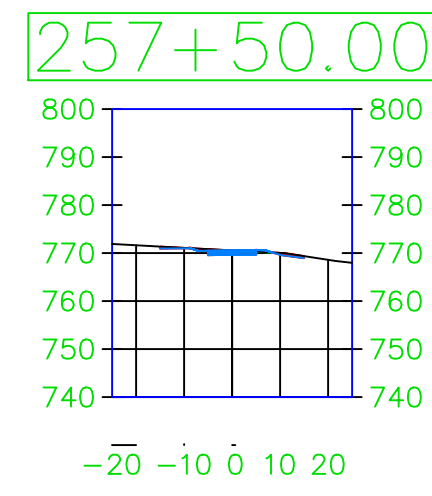
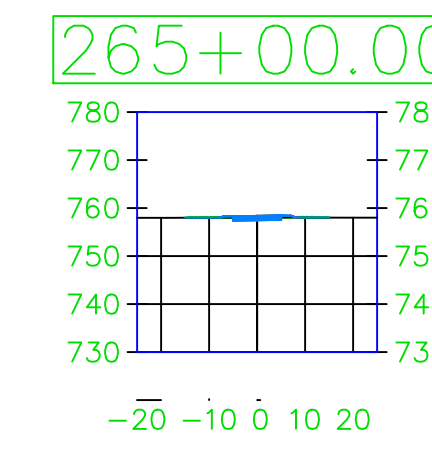
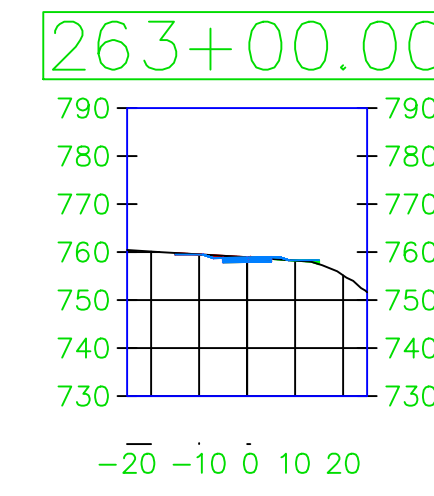
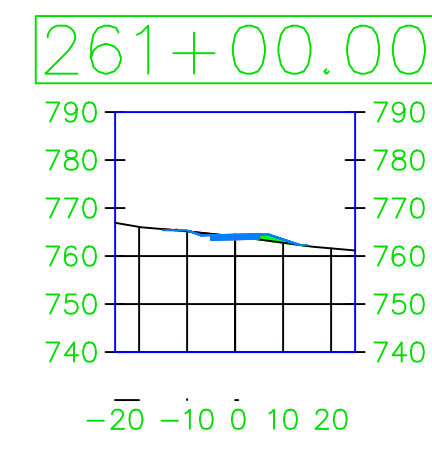
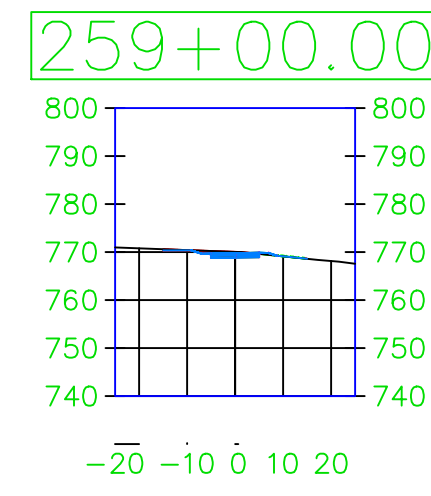
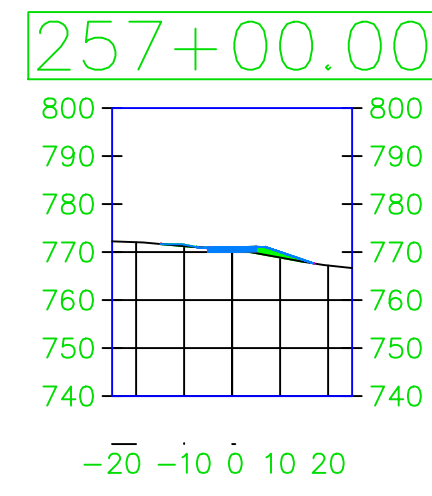
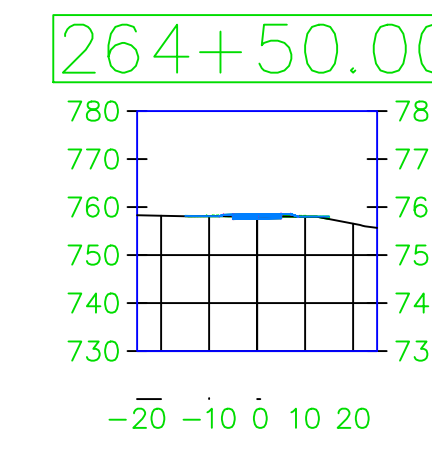
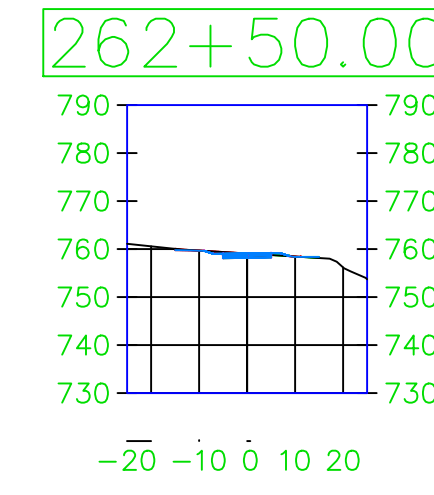
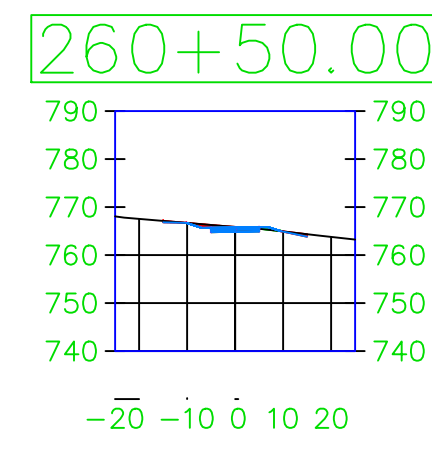
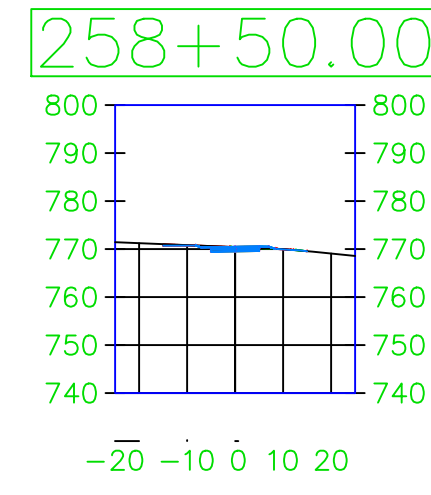
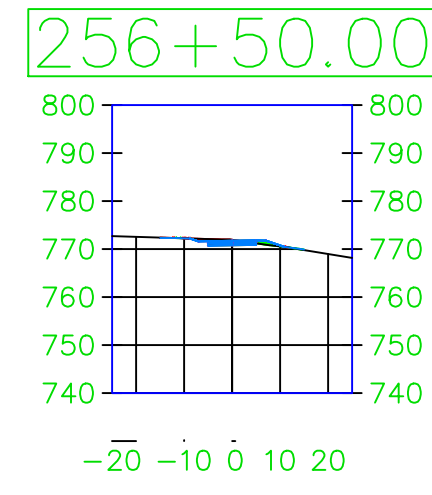
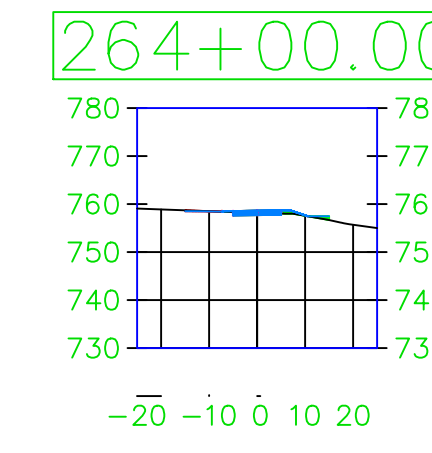
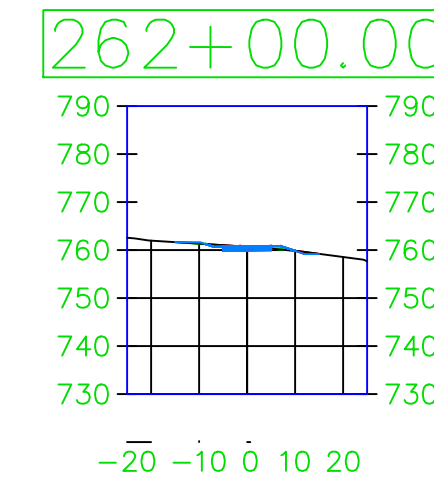
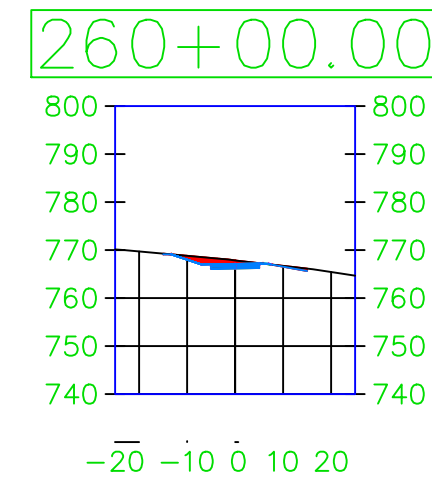
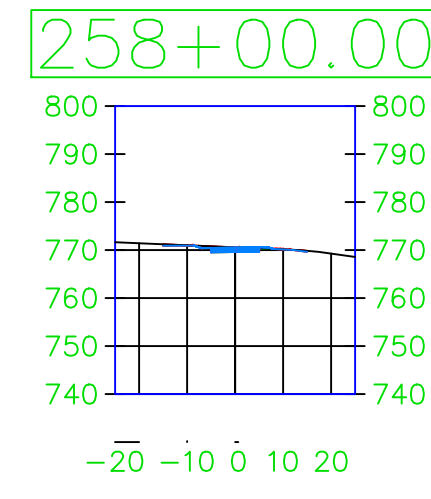
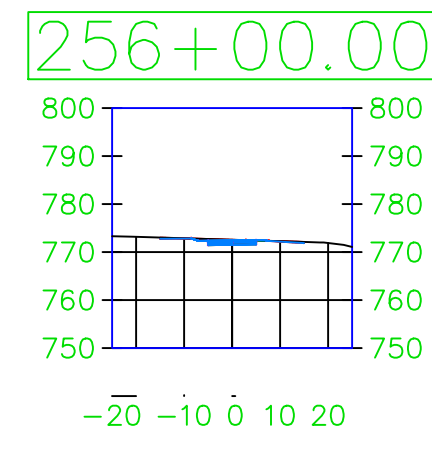


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Volga Trail

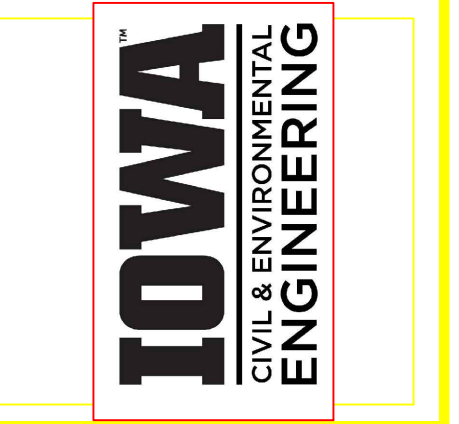
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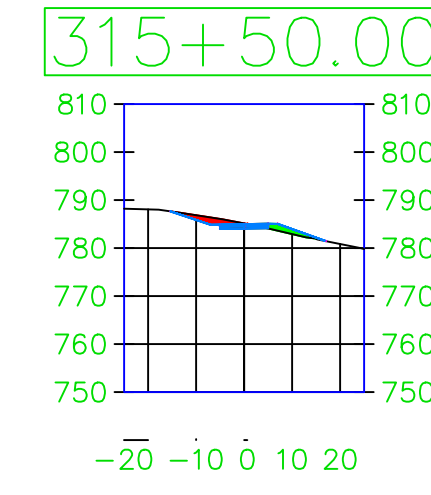
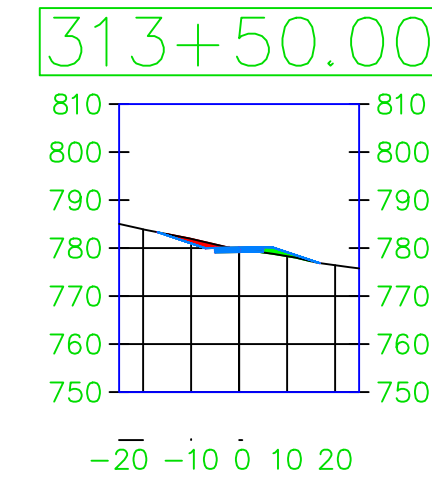
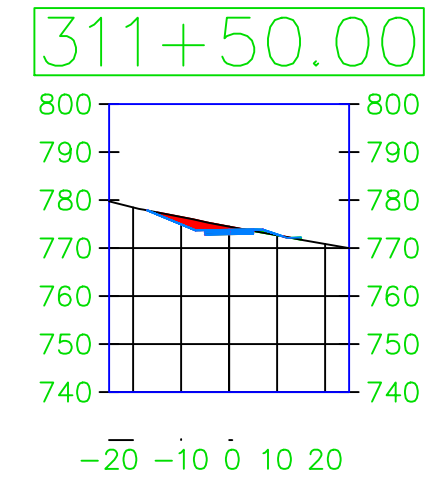
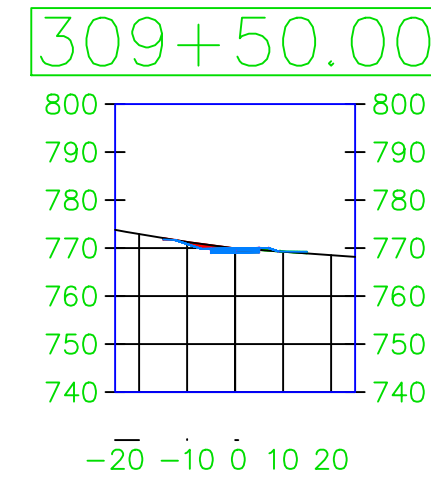
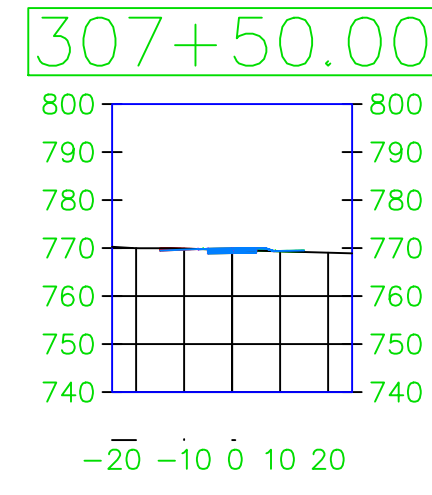
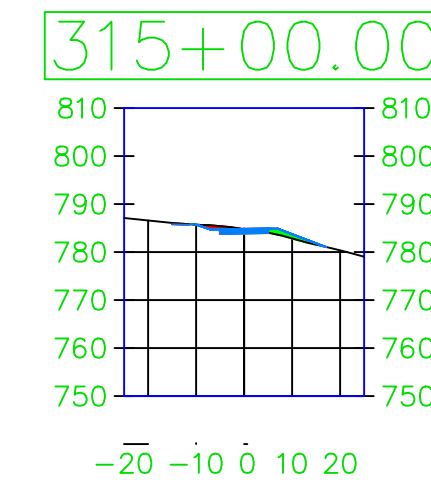
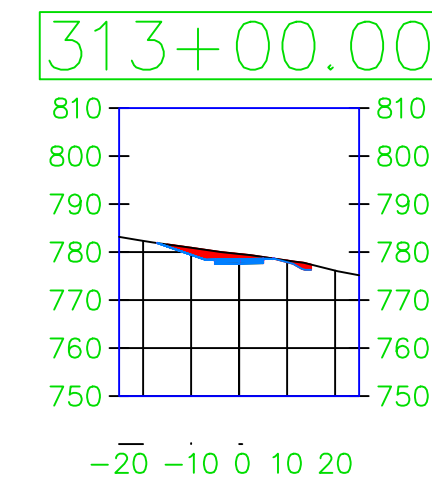
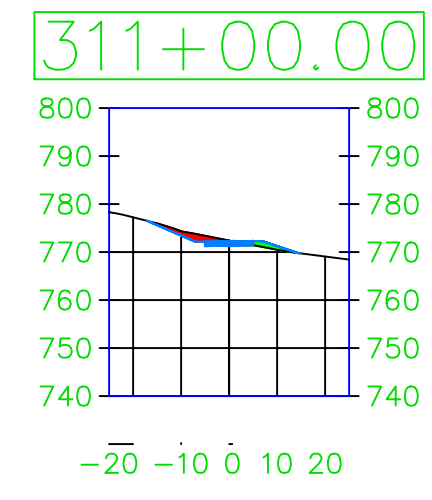
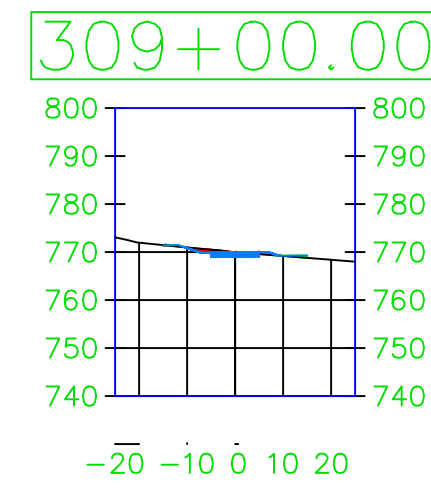
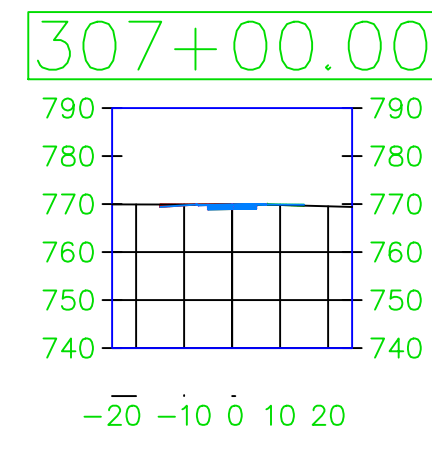
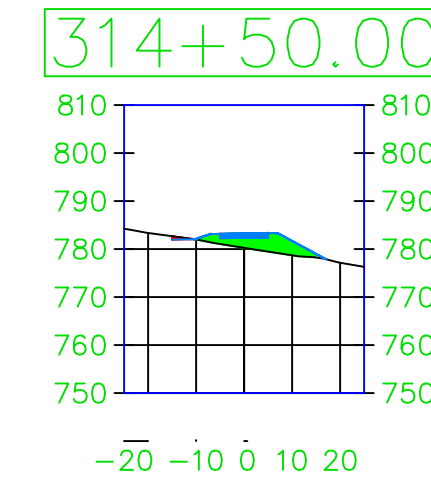
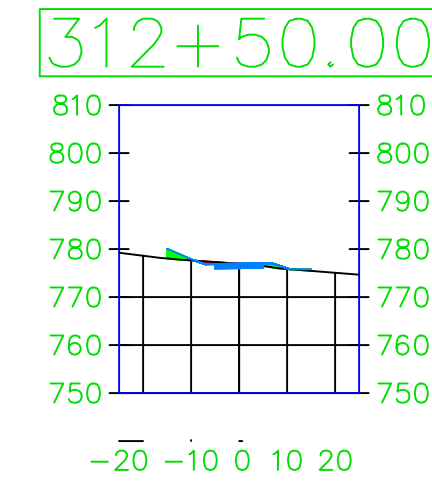
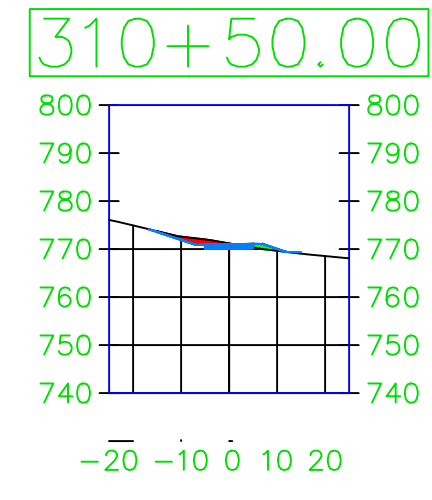
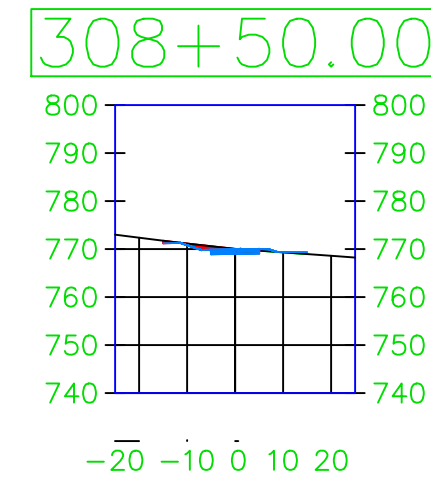
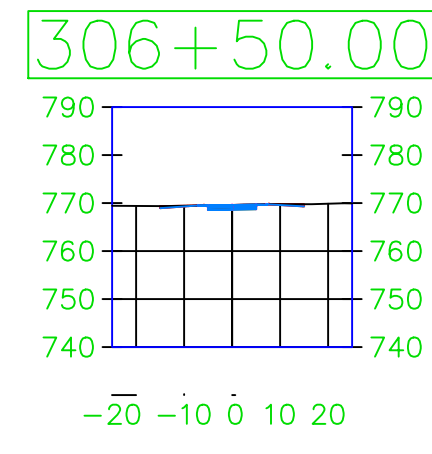
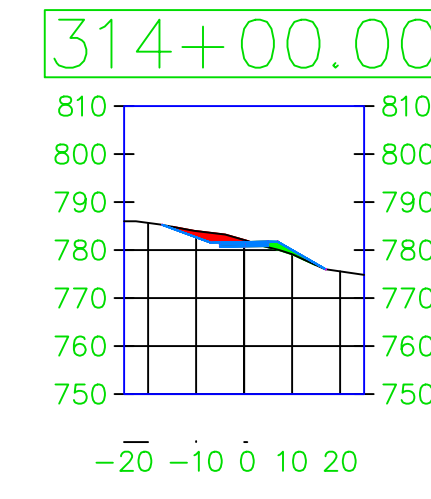
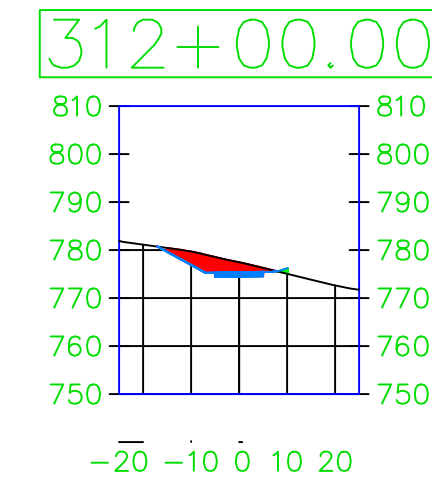
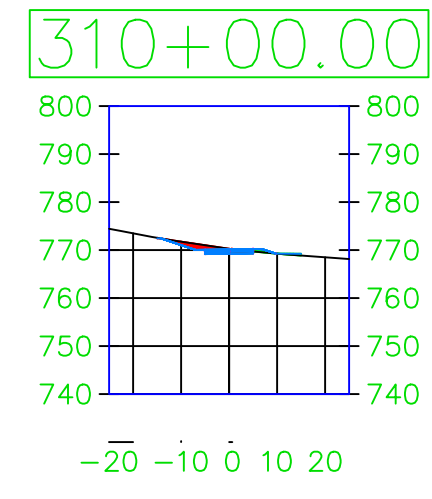
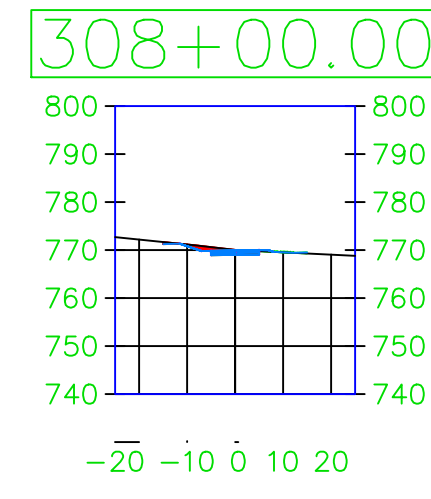
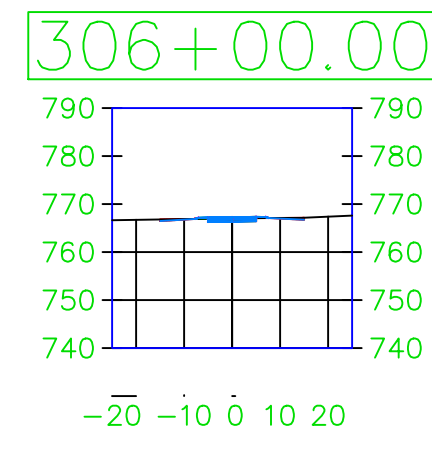


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Volga Trail

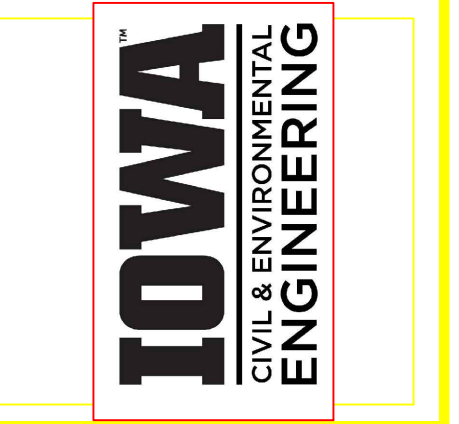
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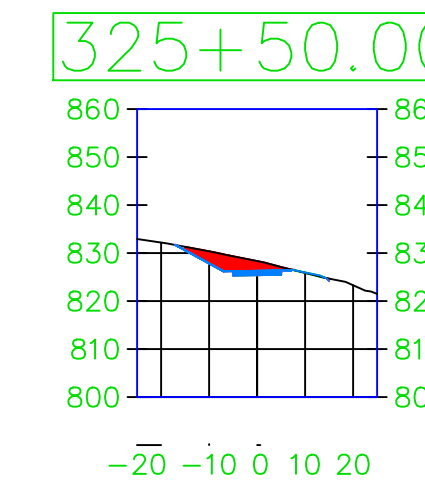
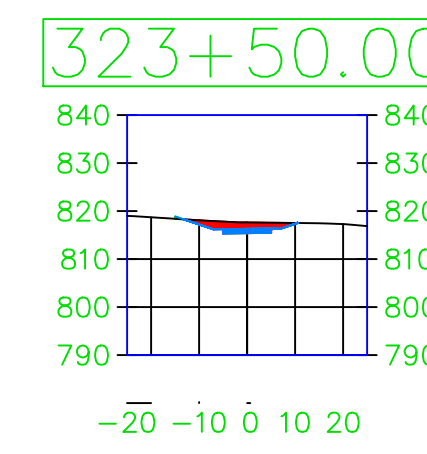
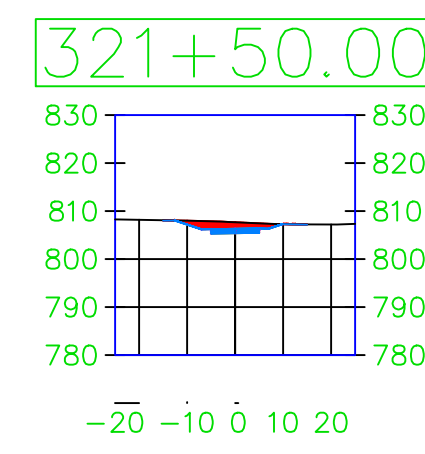
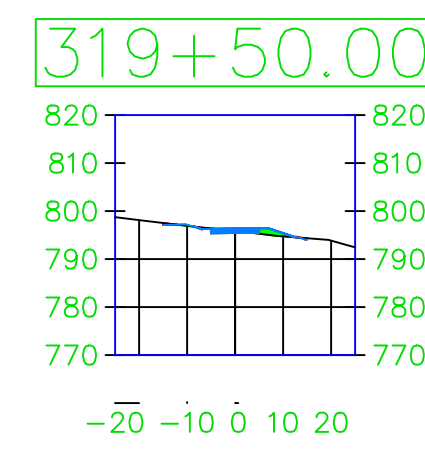
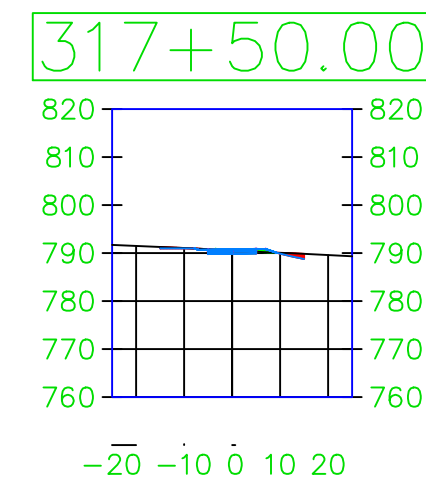
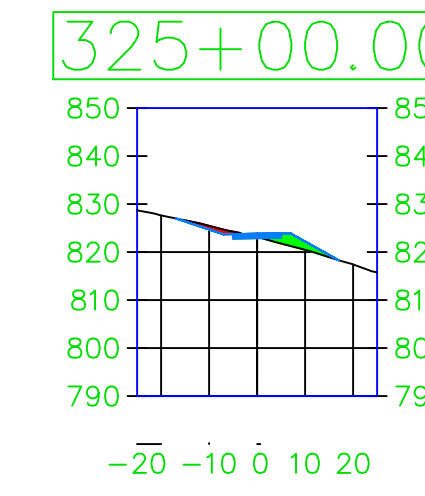
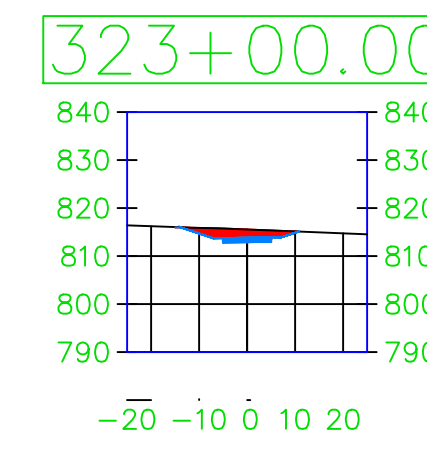
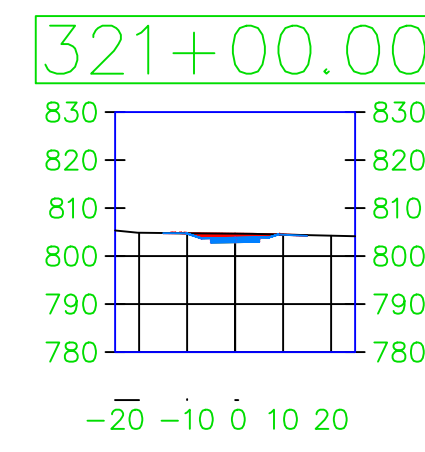
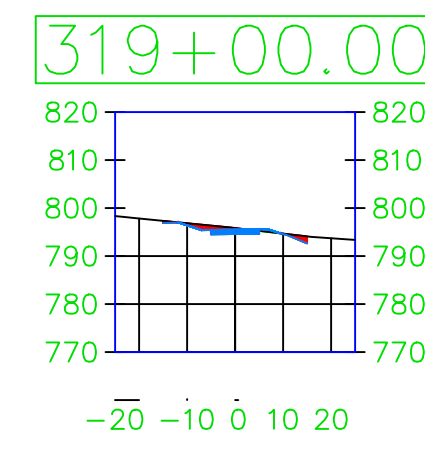
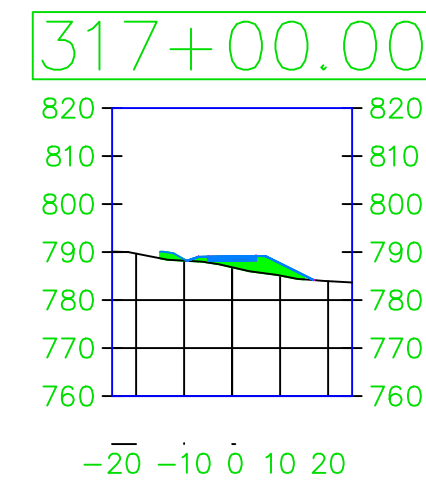
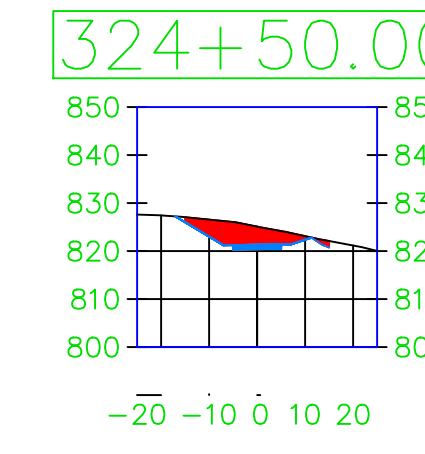
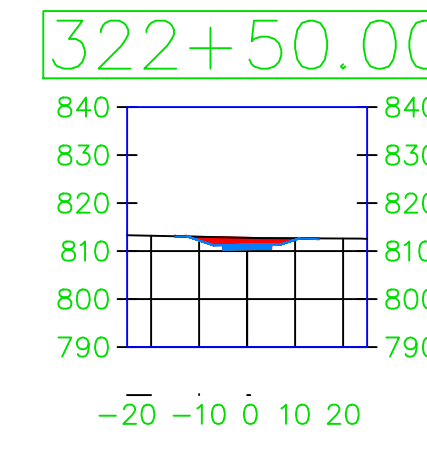
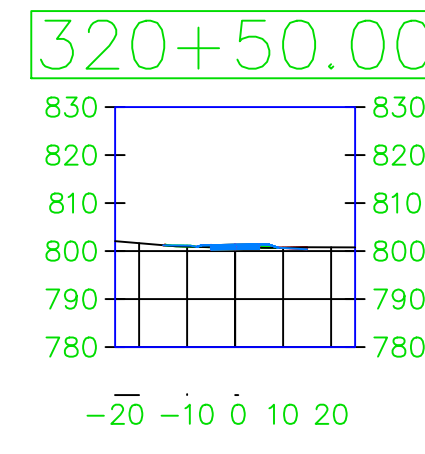
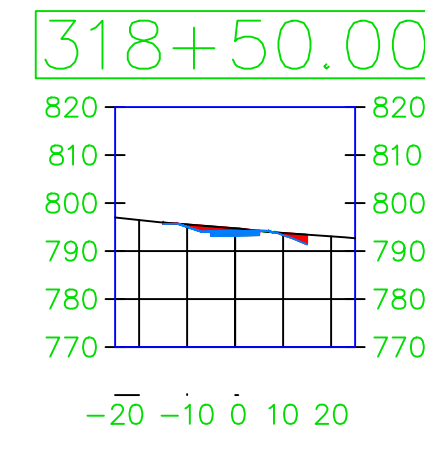
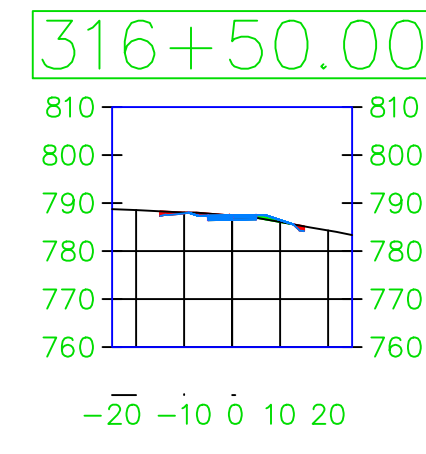
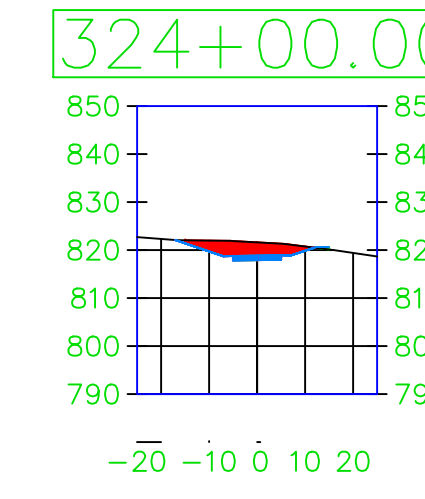
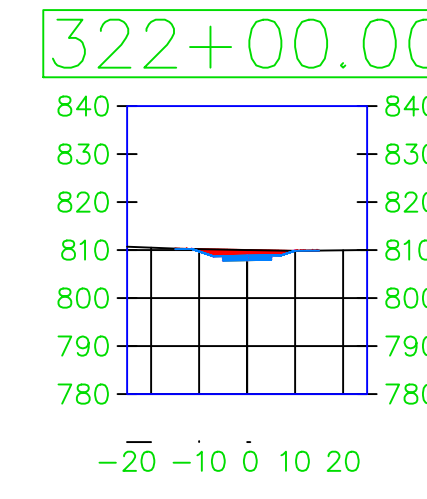
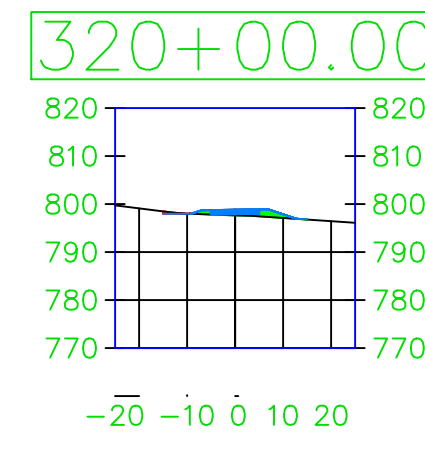
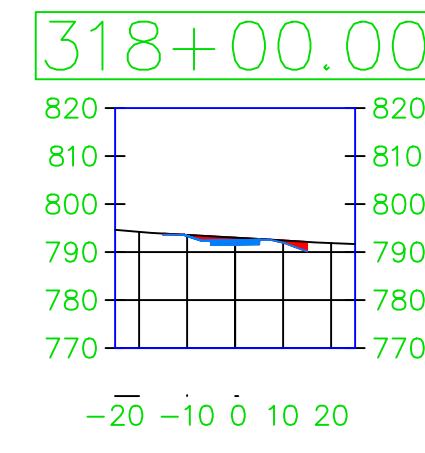
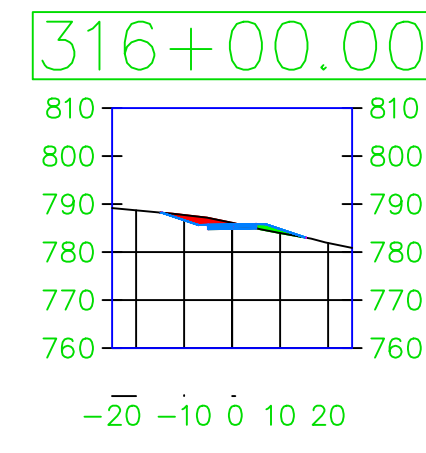


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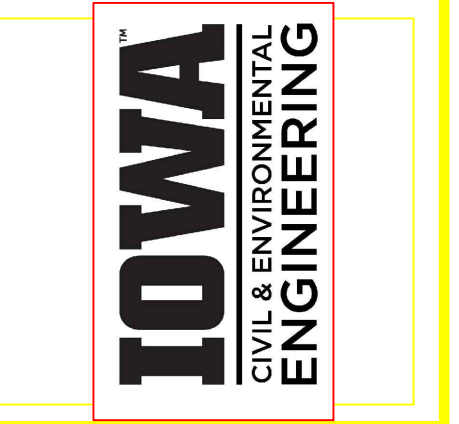
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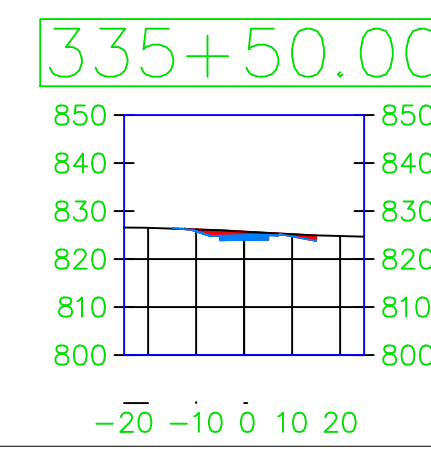
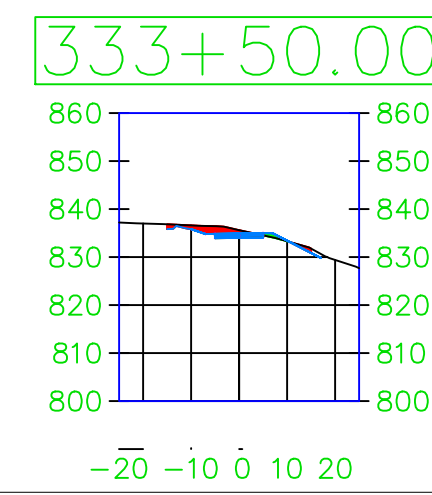
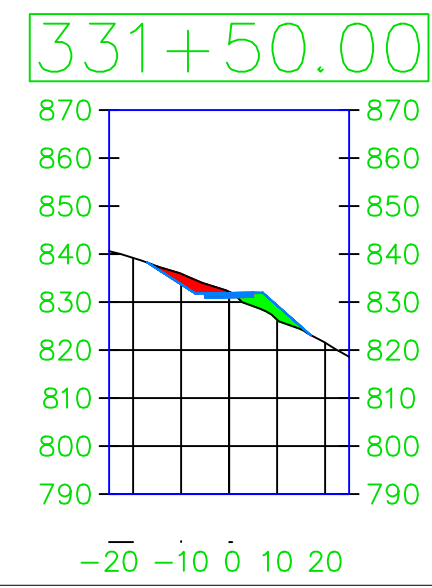
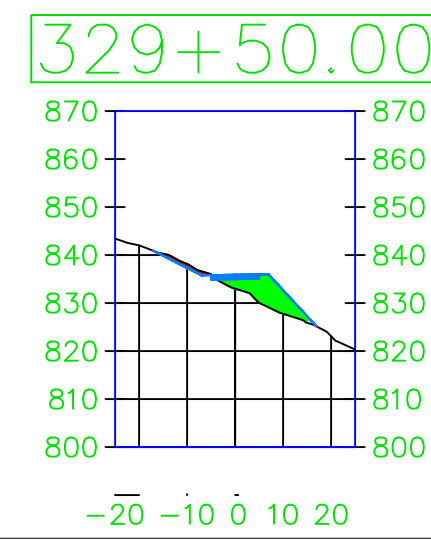
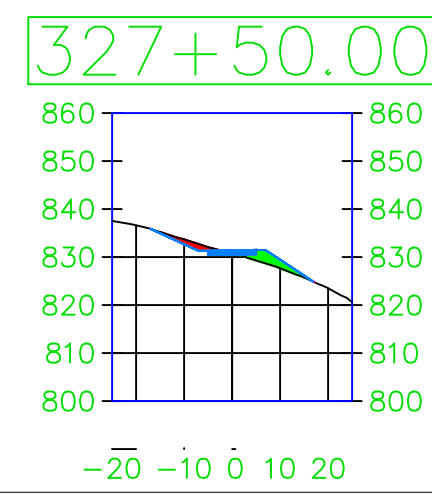
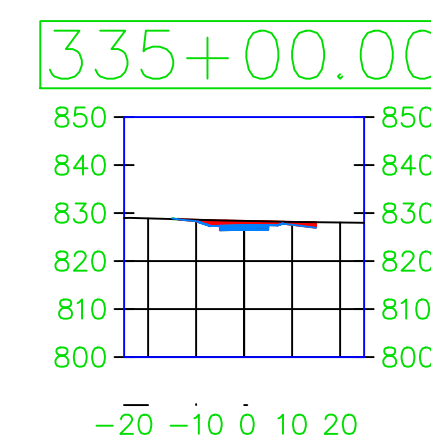
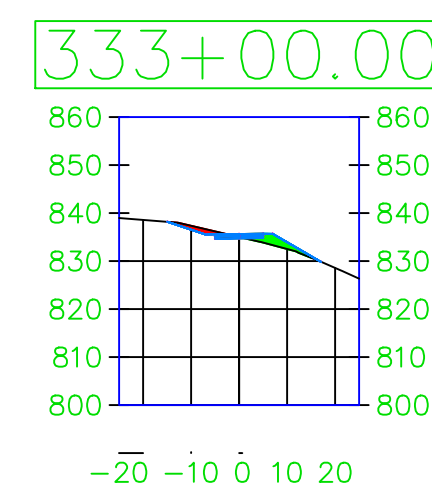
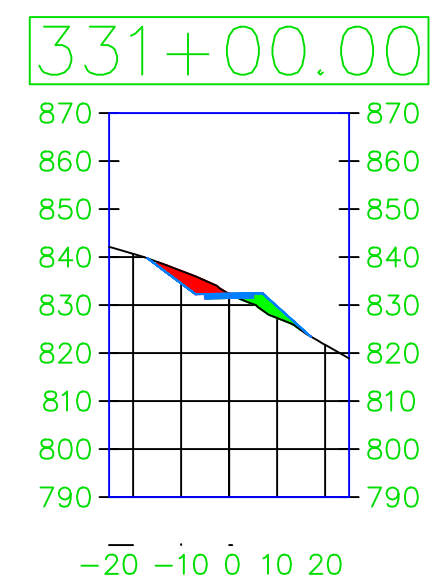
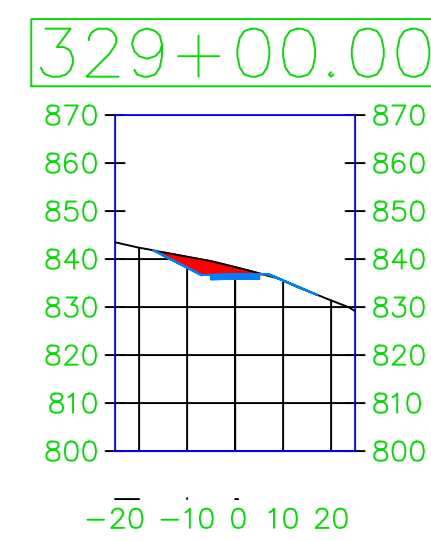
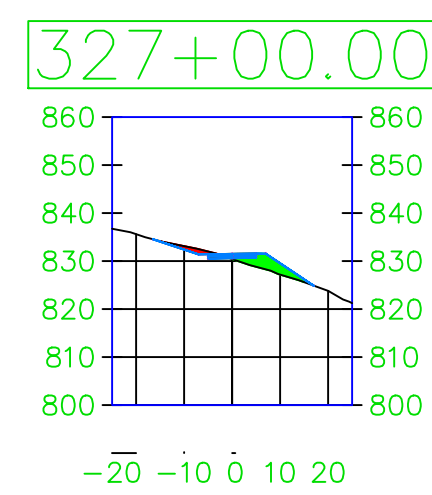
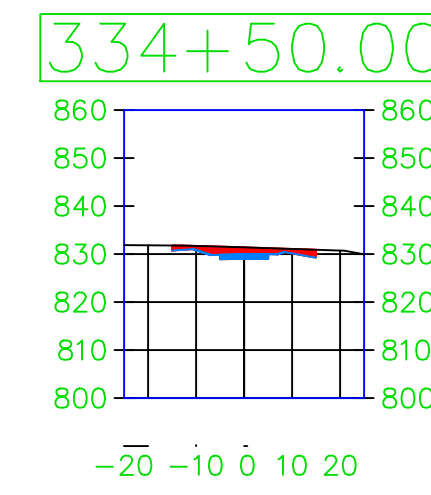
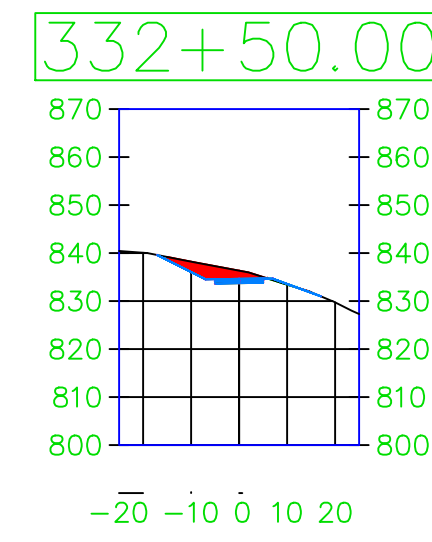
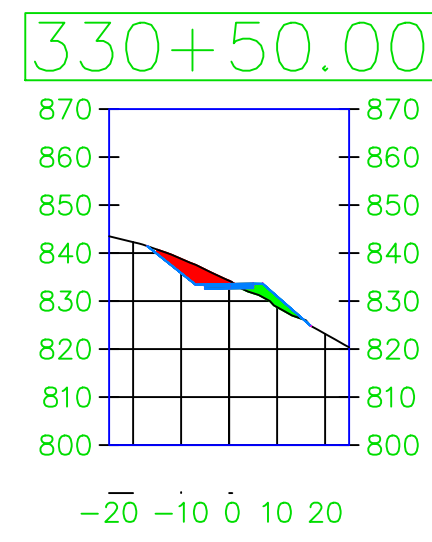
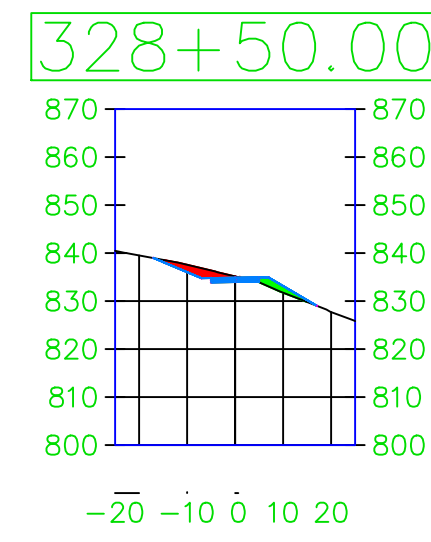
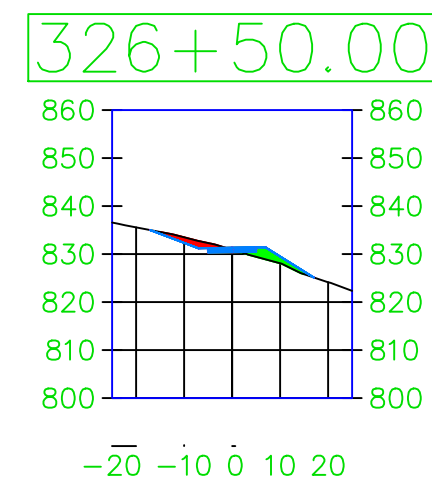
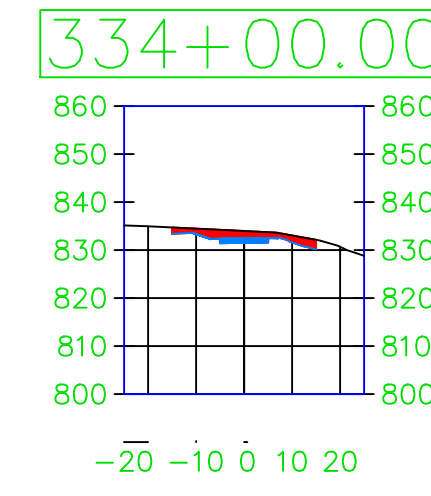
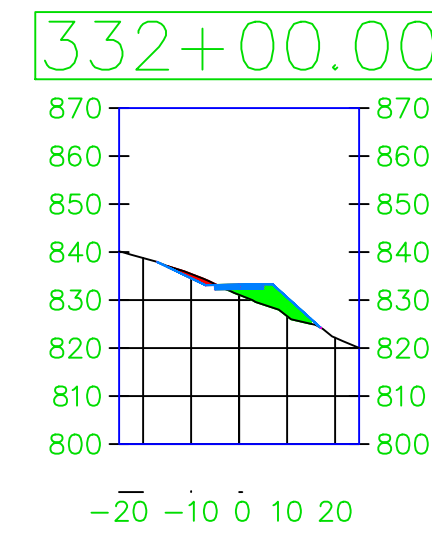
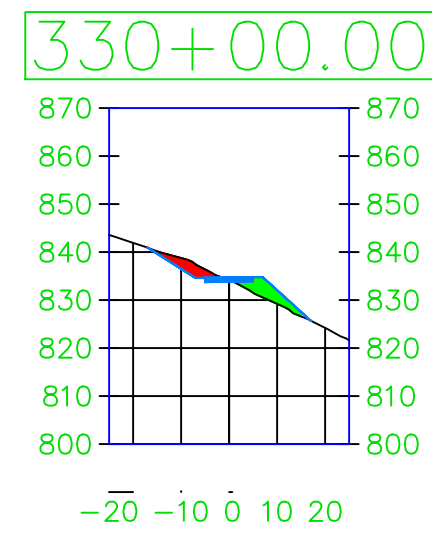
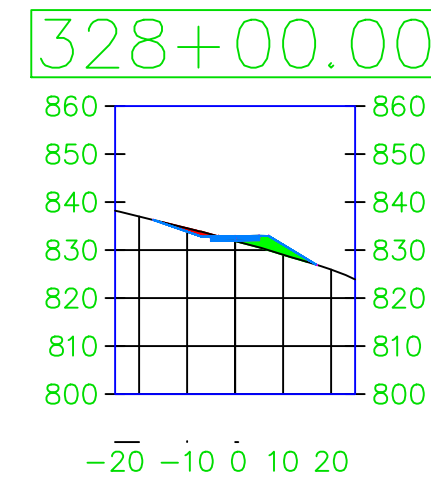
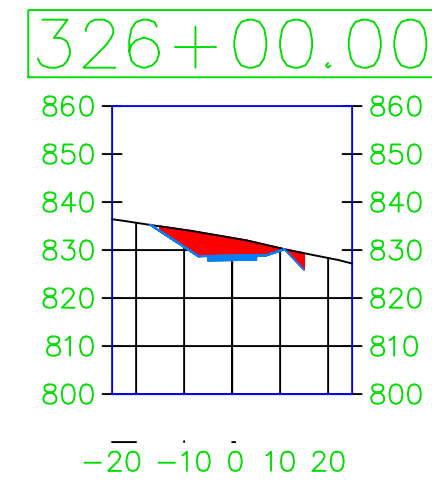


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Volga Trail

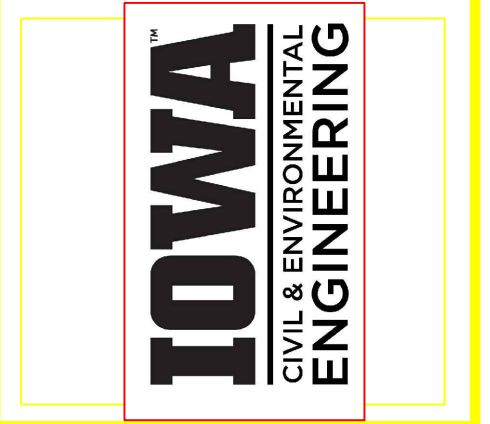
SHEET NAME
 SHEET NAME 1
 SHEET NAME 2

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XX



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

THE UNIVERSITY OF IOWA
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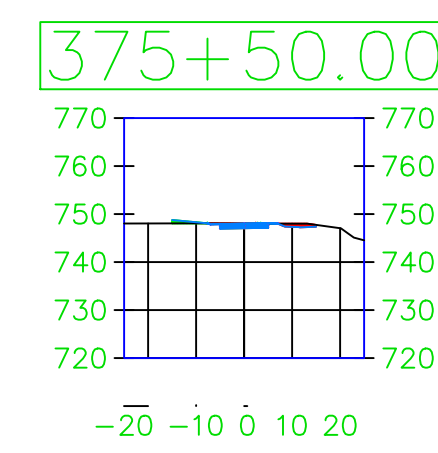
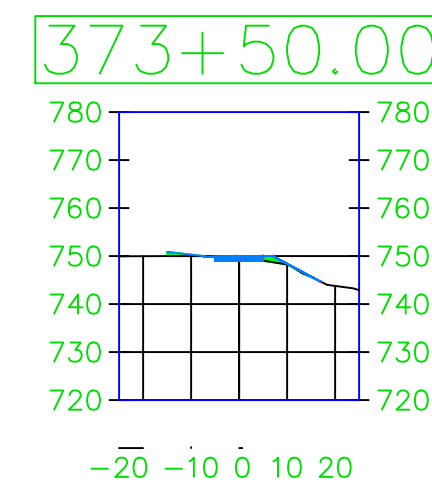
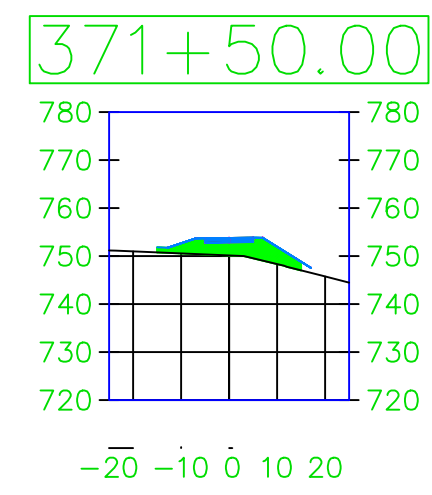
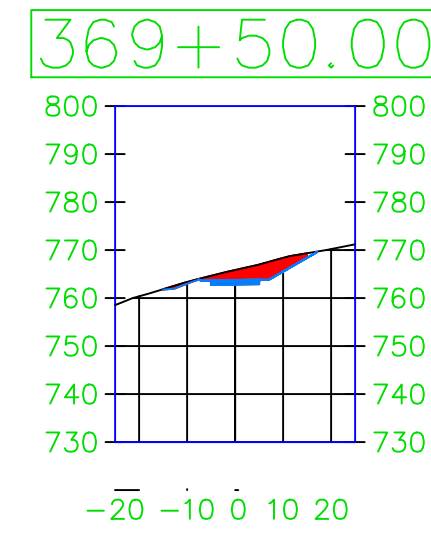
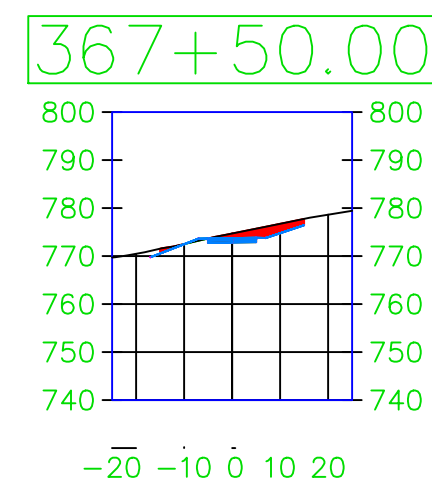
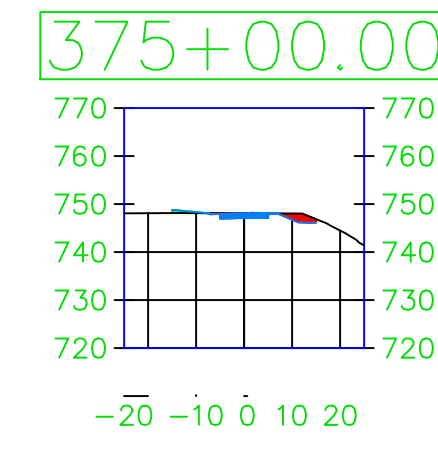
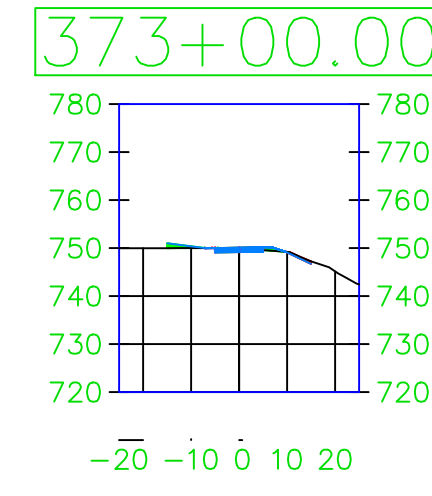
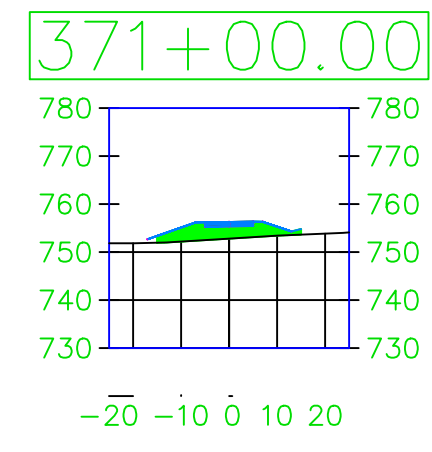
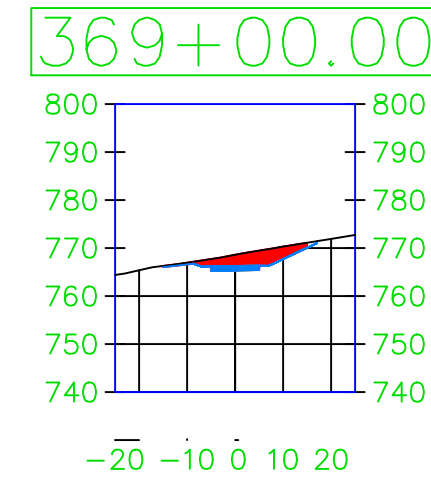
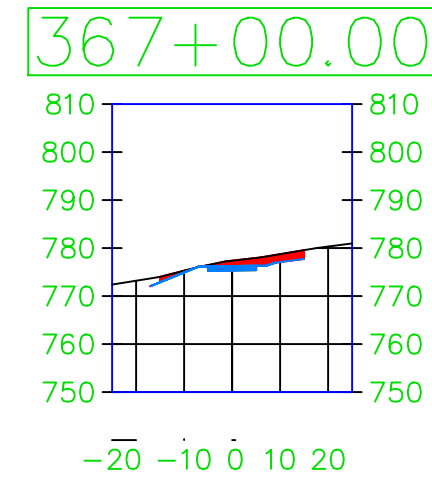
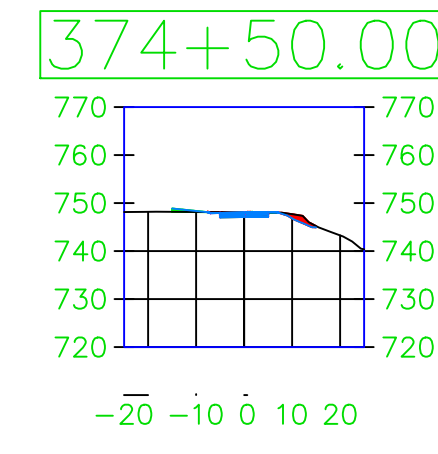
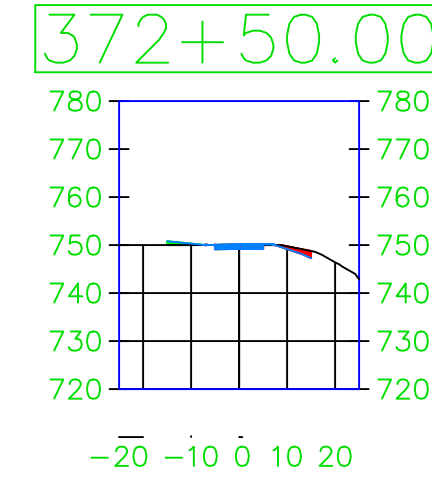
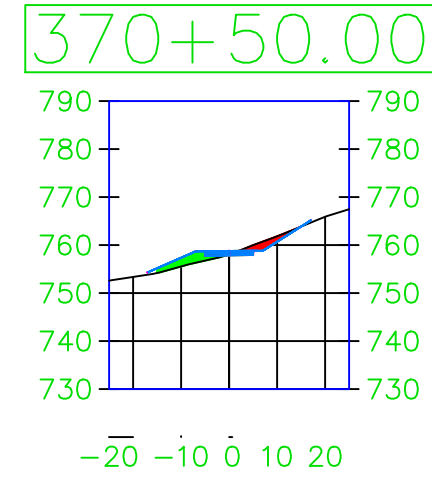
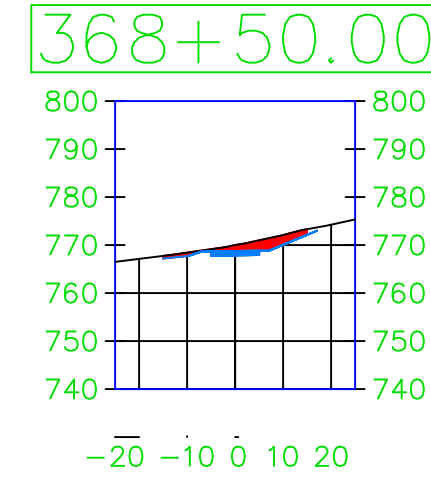
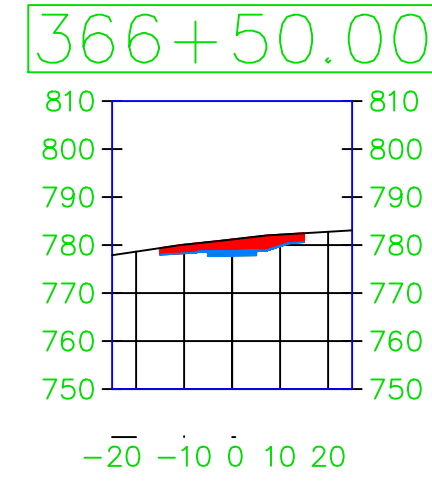
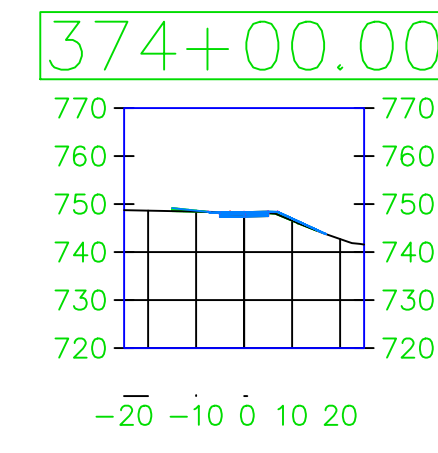
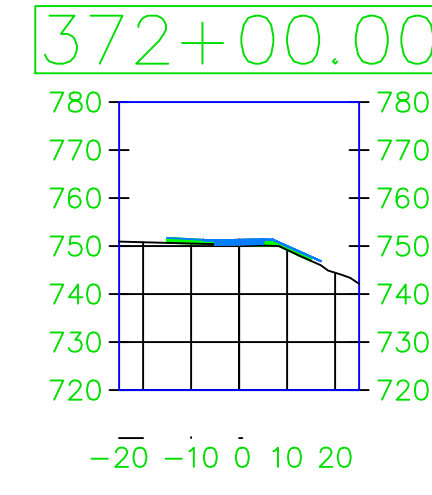
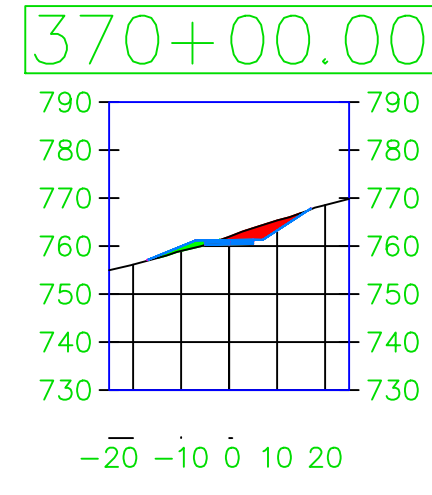
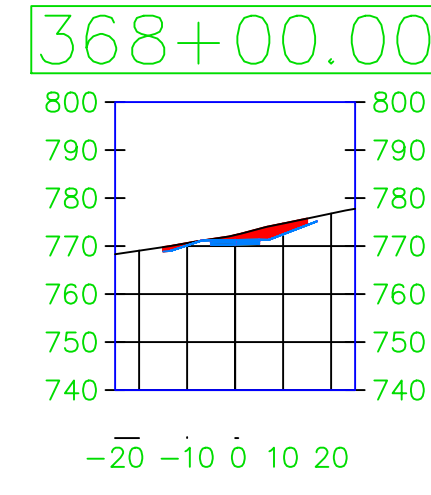
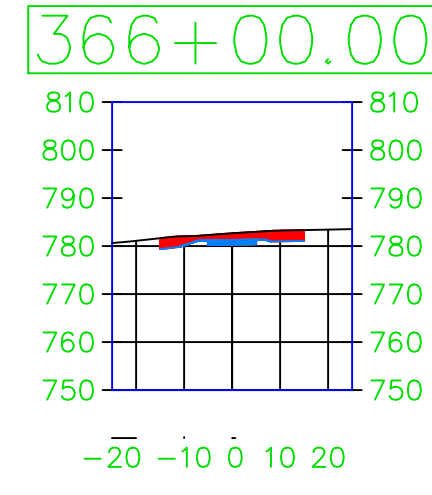


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Volga Trail

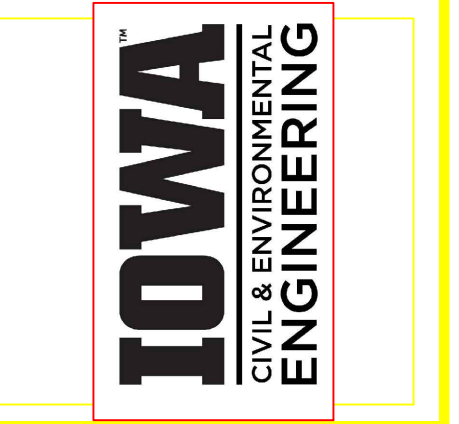
SHEET NAME
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SHEET NO.
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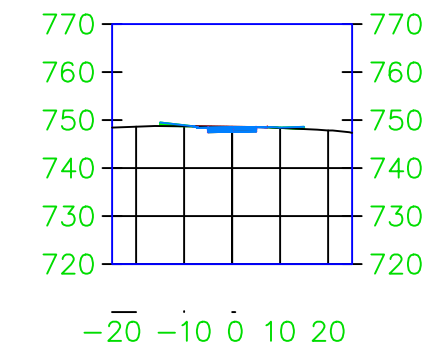
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Volga Trail

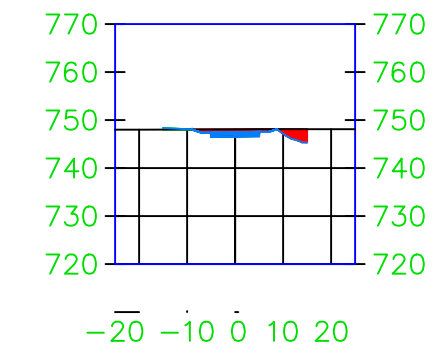
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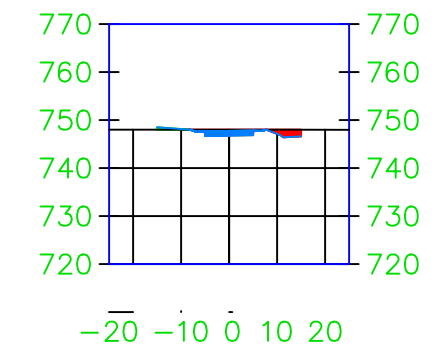
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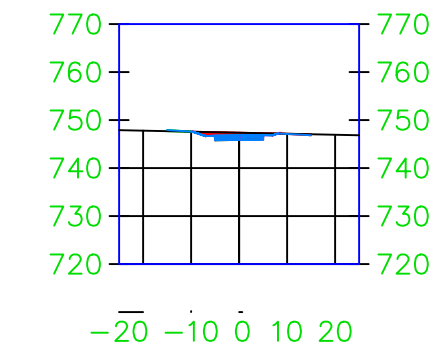
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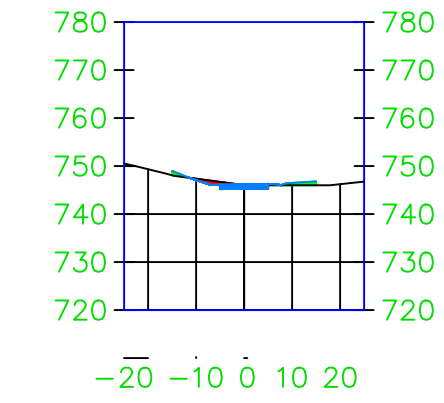
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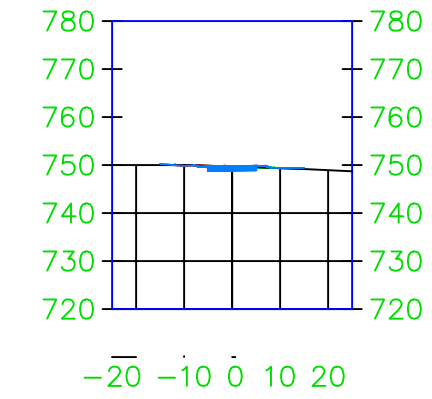
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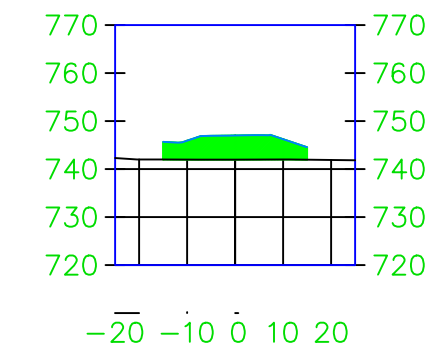
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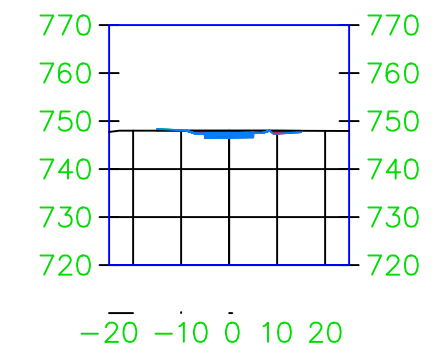
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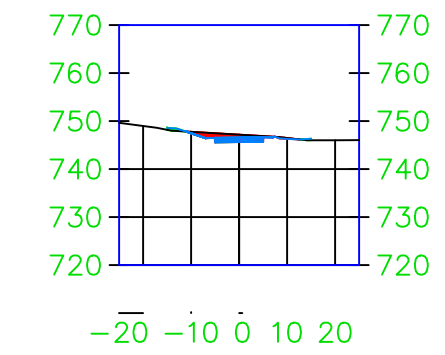
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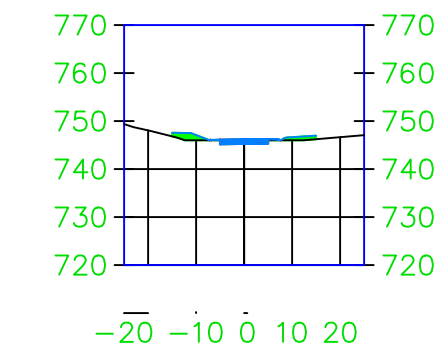
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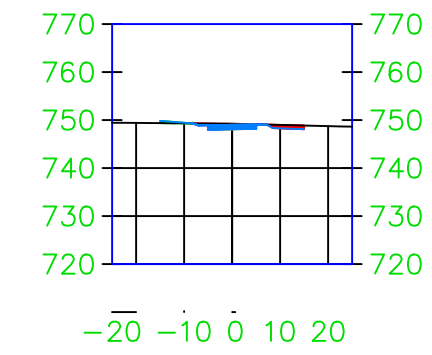
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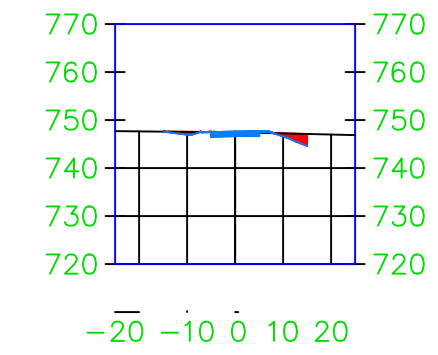
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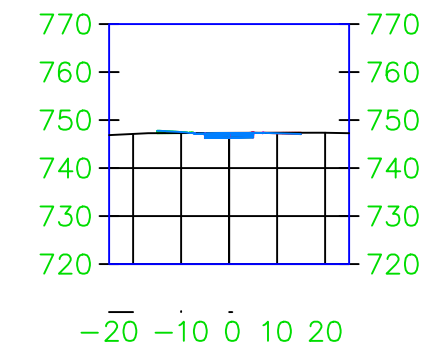
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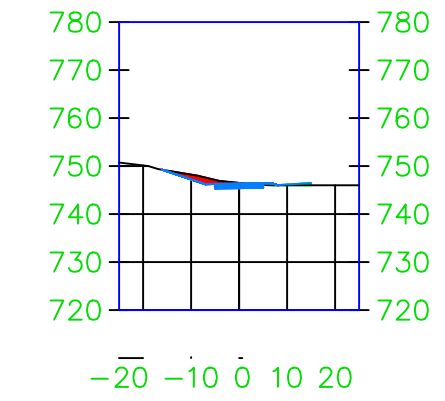
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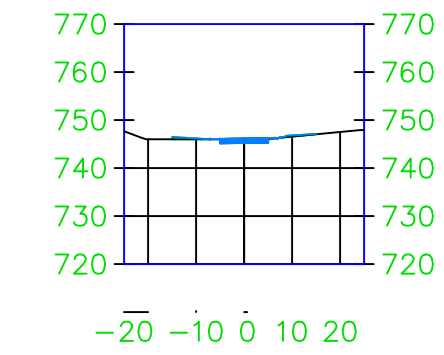
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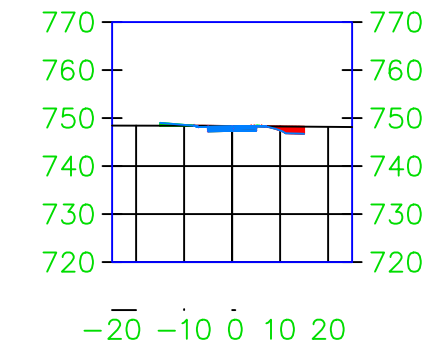
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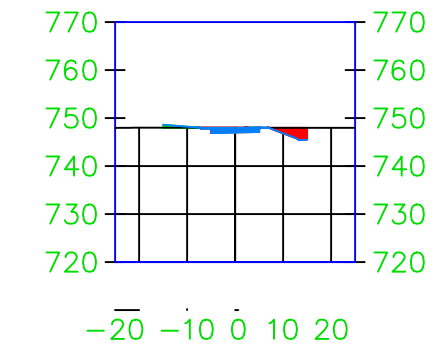
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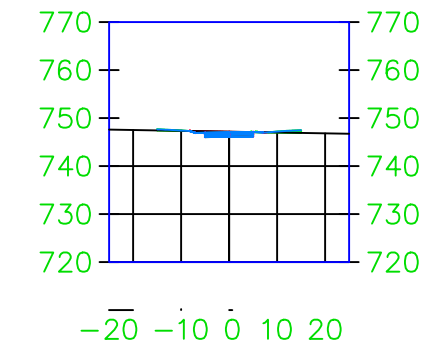
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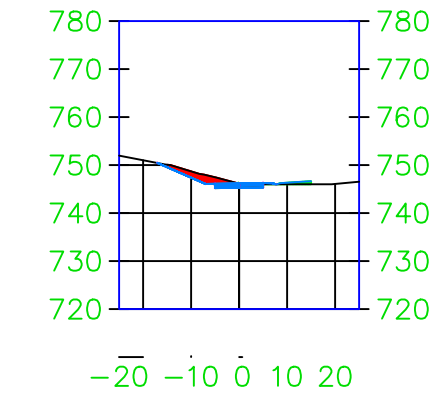
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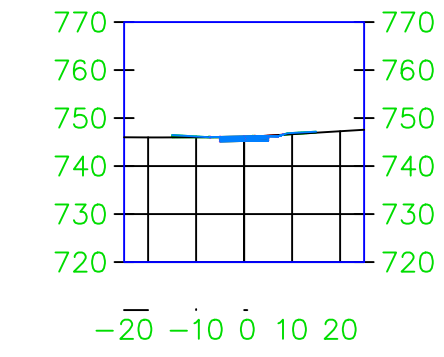
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383+50.00

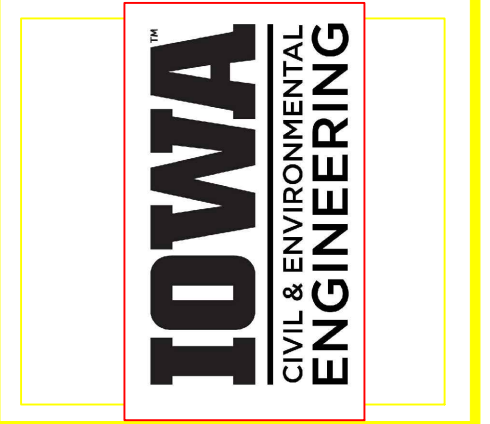


385+50.00



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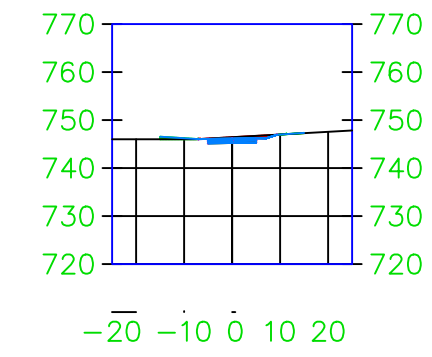
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Volga Trail

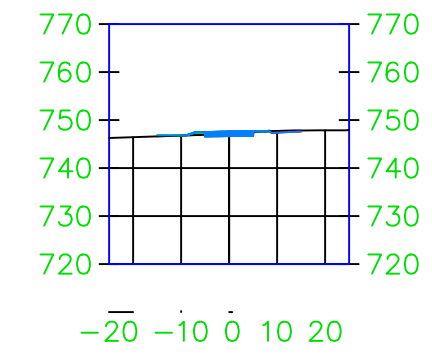
SHEET NAME
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SHEET NO.
XX

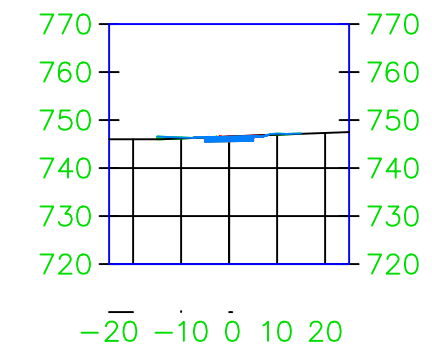
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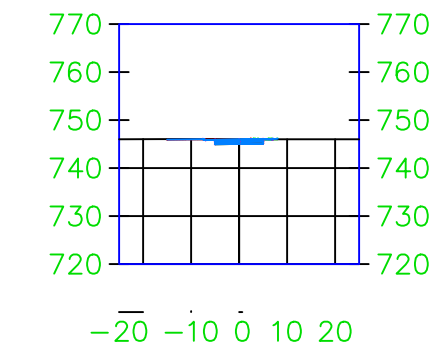
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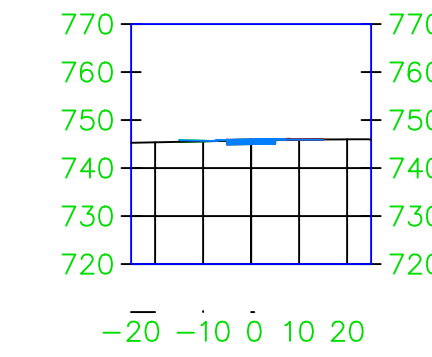
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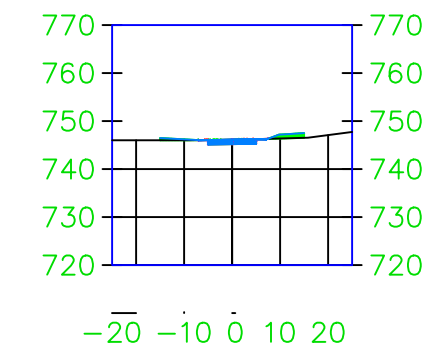
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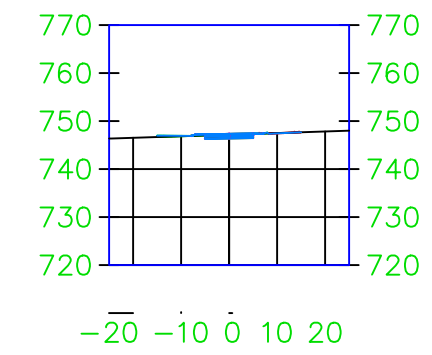
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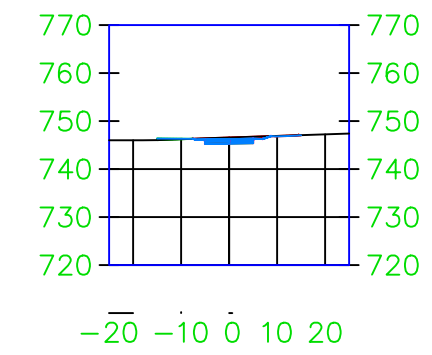
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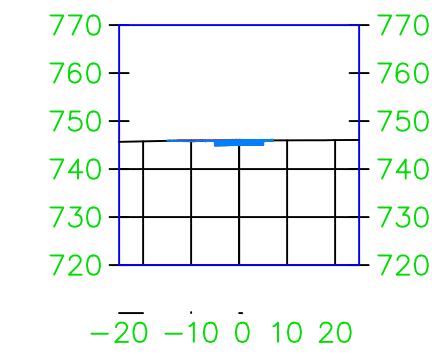
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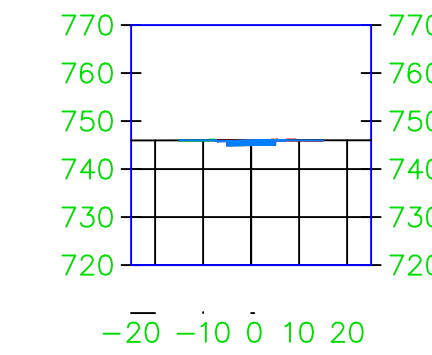
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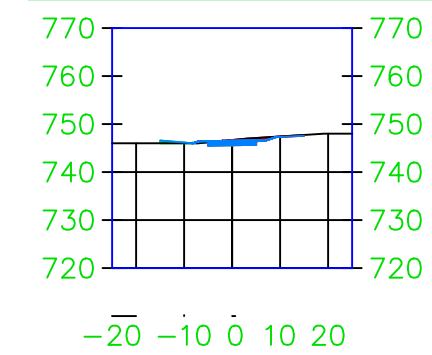
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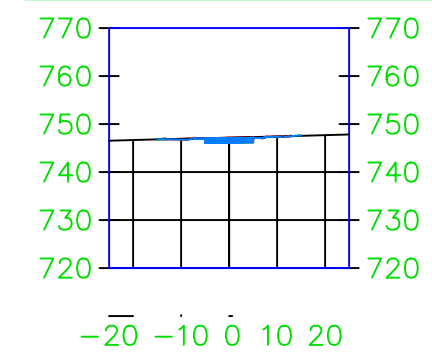
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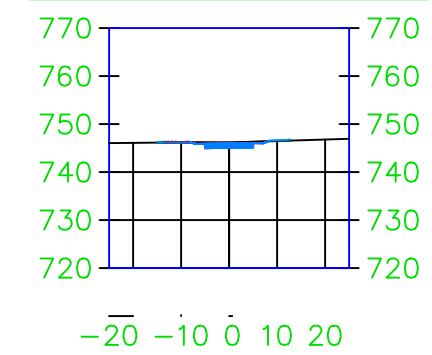
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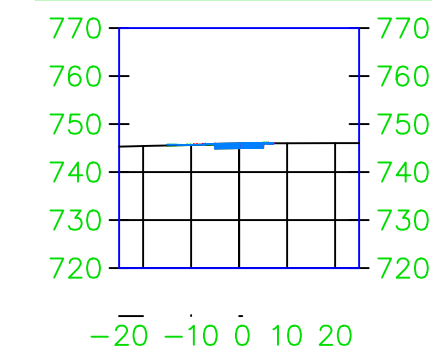
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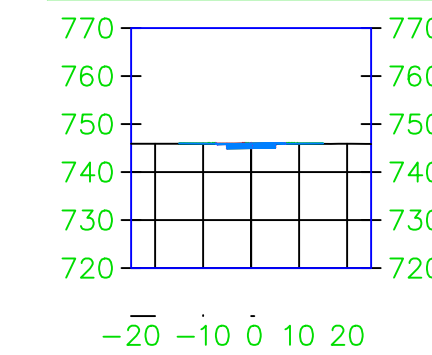
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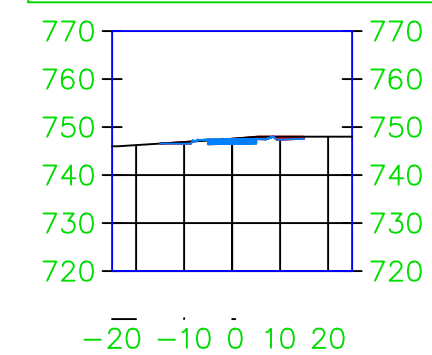
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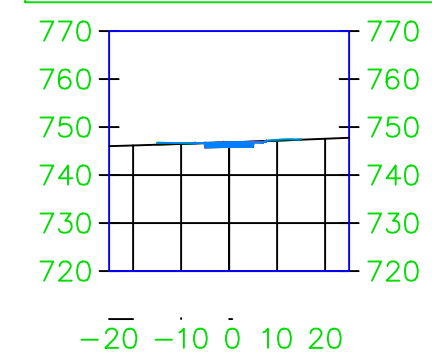
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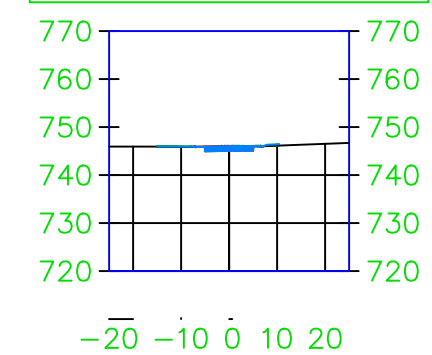
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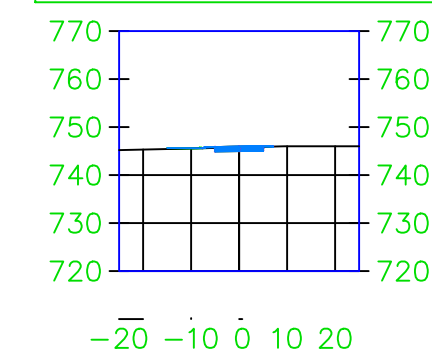
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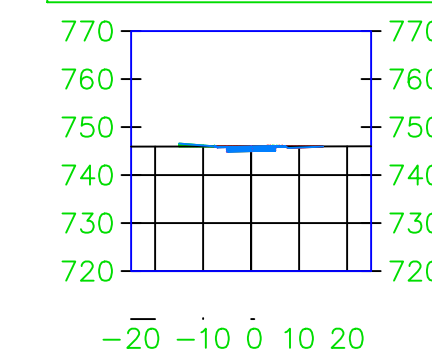
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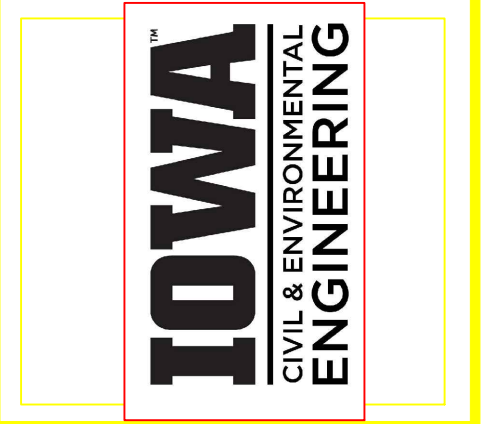


395+50.00



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 EMAIL: civil-hawks@iowa.edu

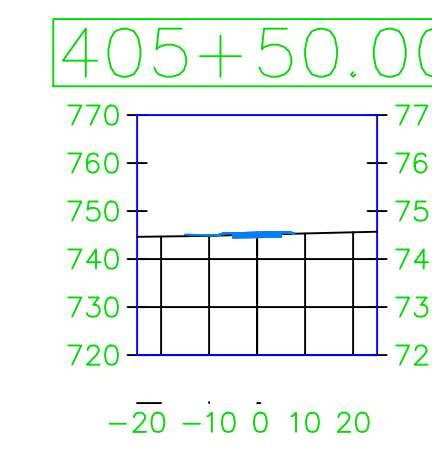
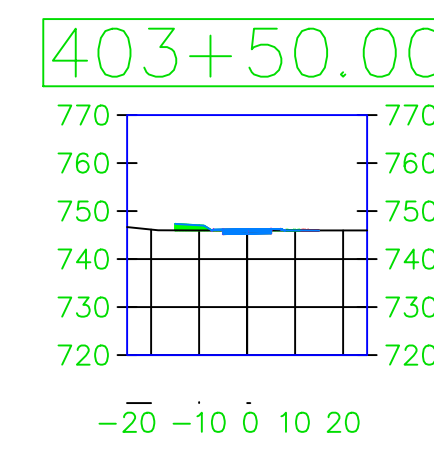
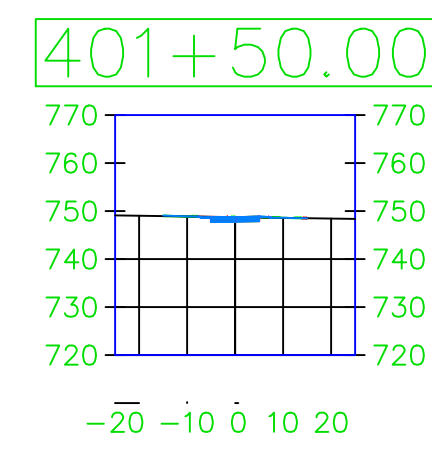
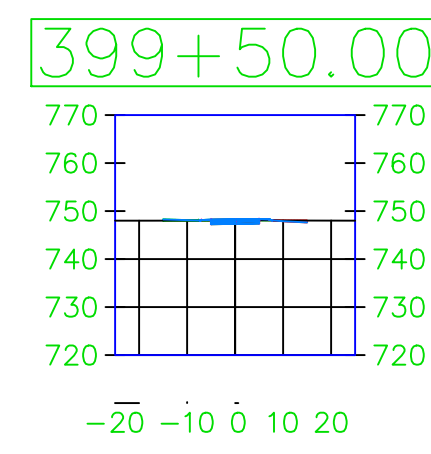
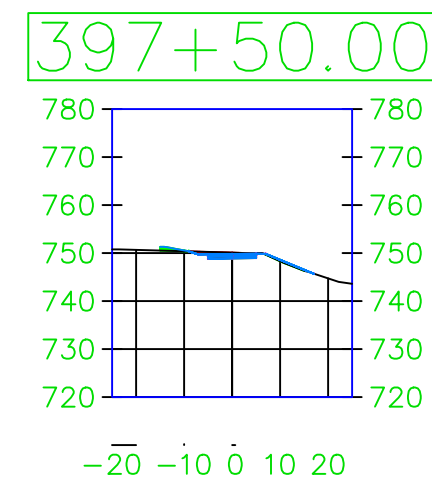
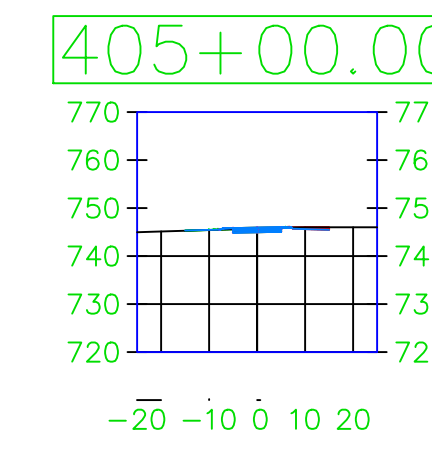
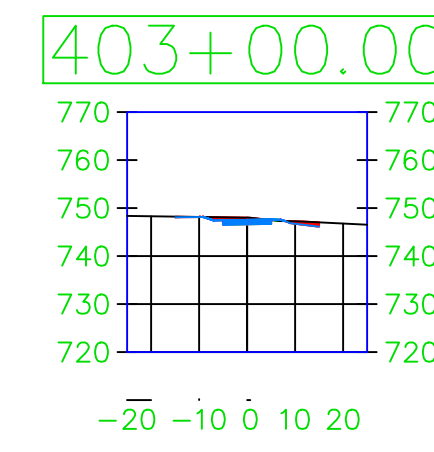
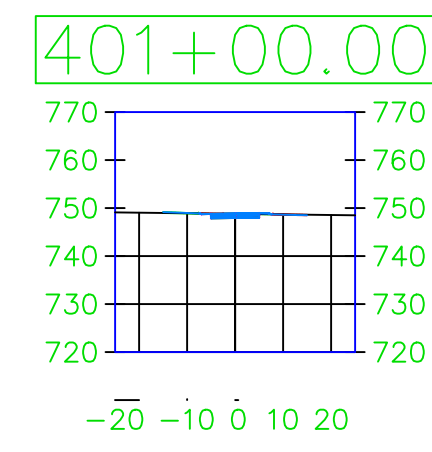
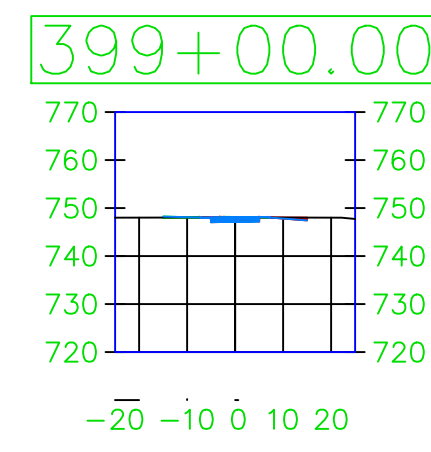
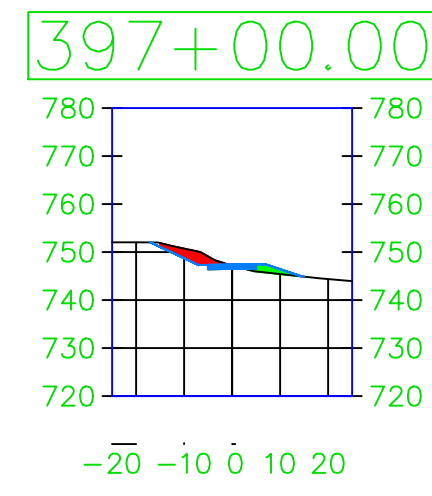
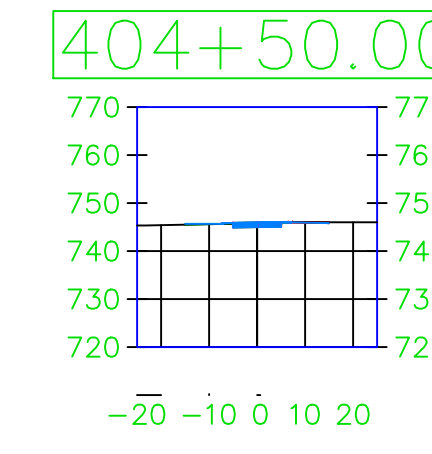
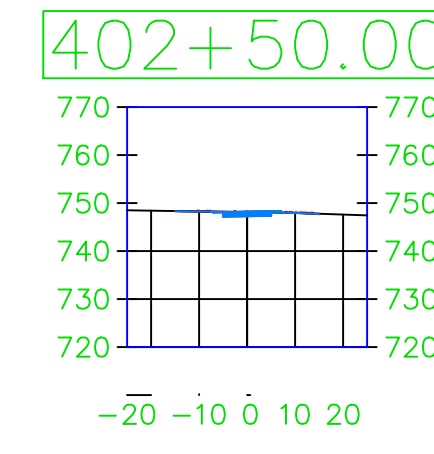
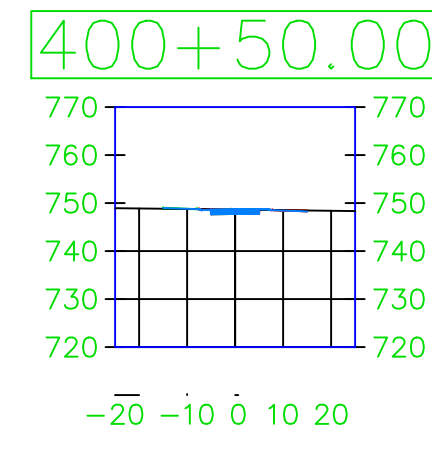
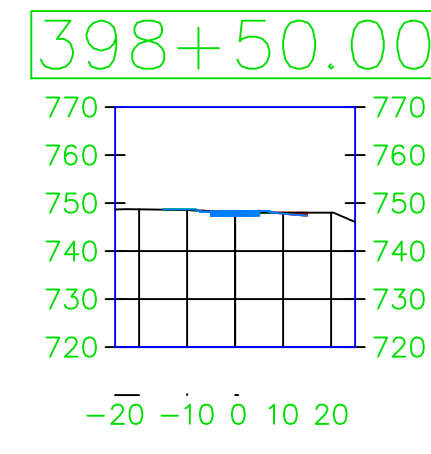
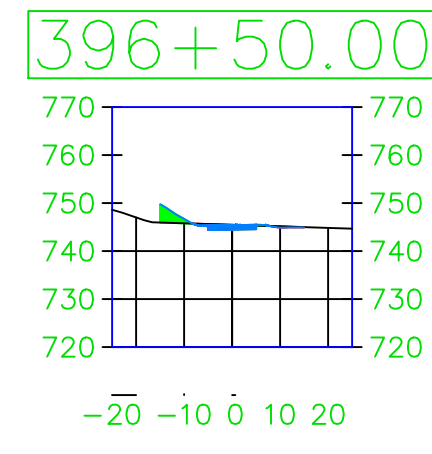
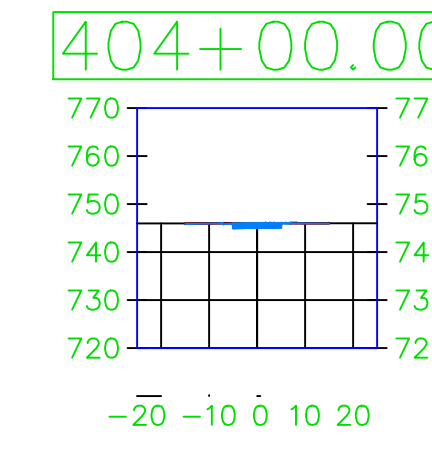
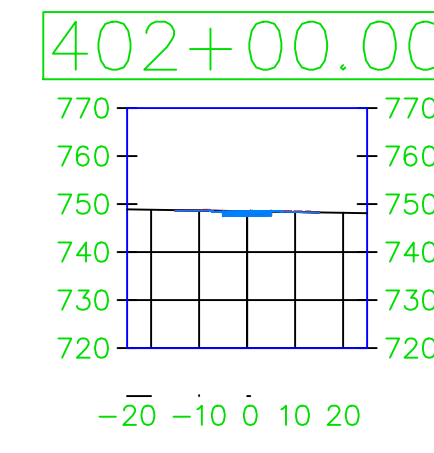
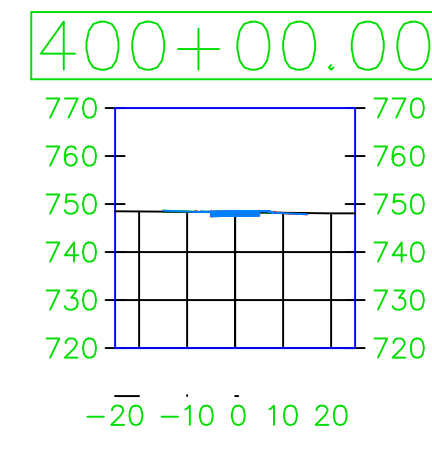
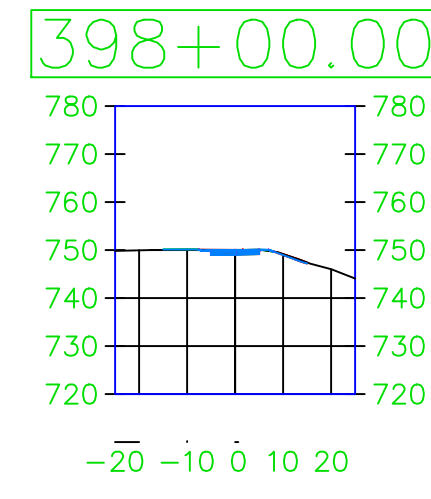
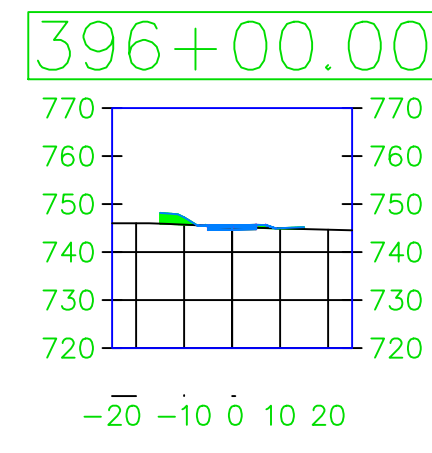


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Volga Trail

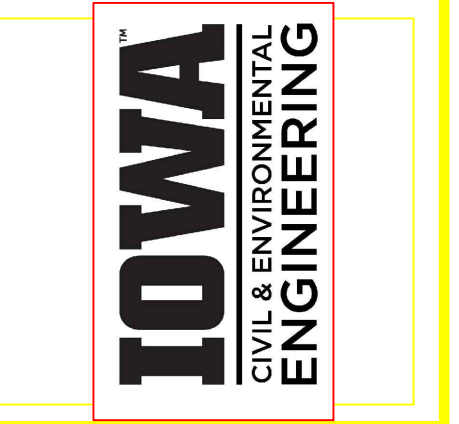
SHEET NAME
 SHEET NAME 1
 SHEET NAME 2

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



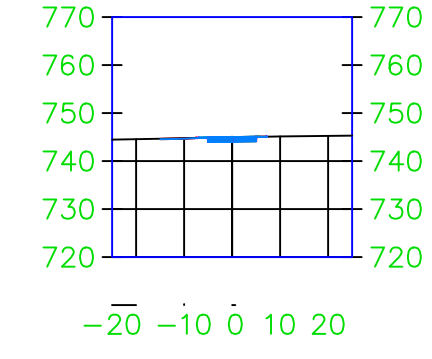
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Volga Trail

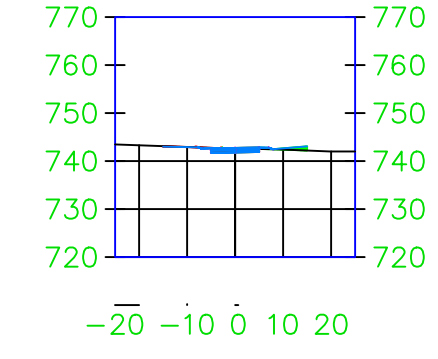
SHEET NAME
 SHEET NAME 1
 SHEET NAME 2

SHEET NO.
 XX

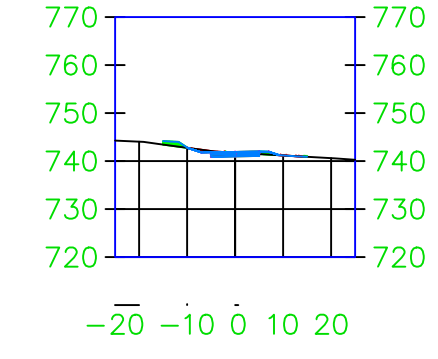
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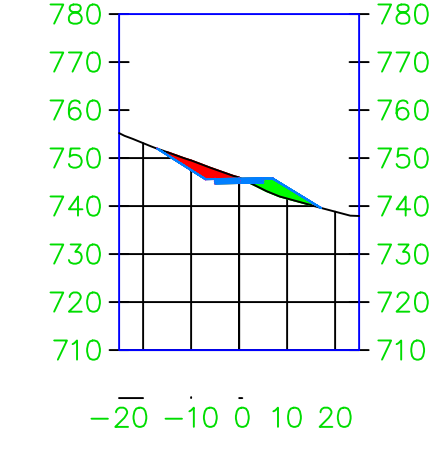
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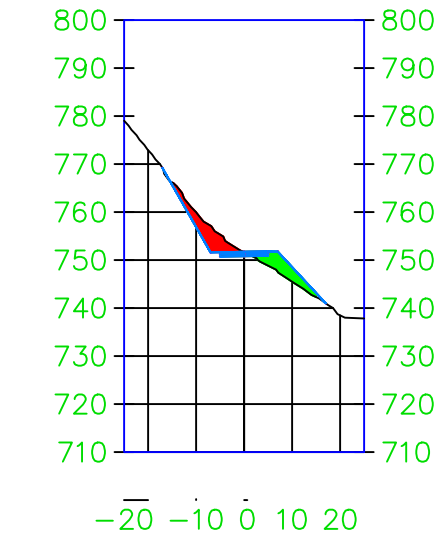
409+00.00



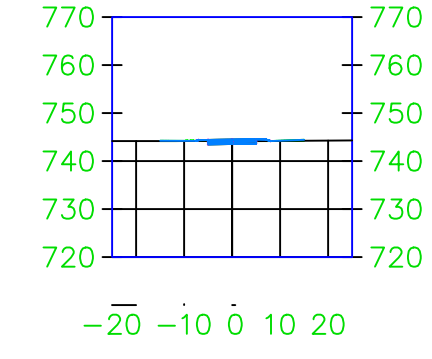
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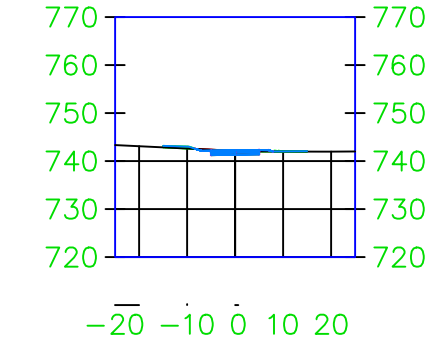
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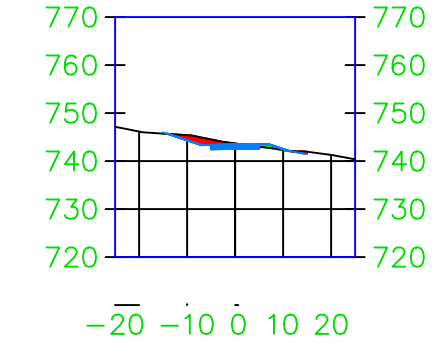
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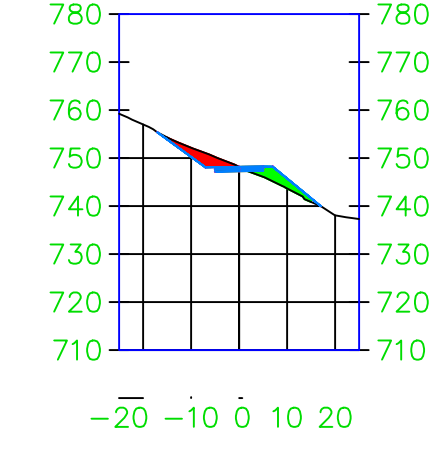
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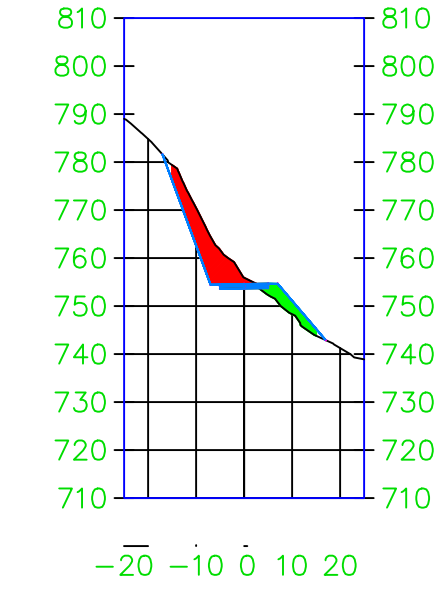
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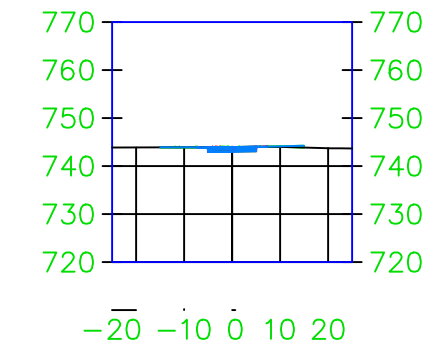
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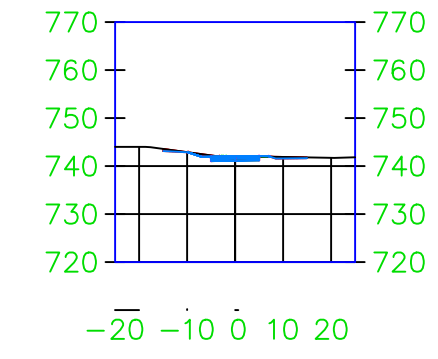
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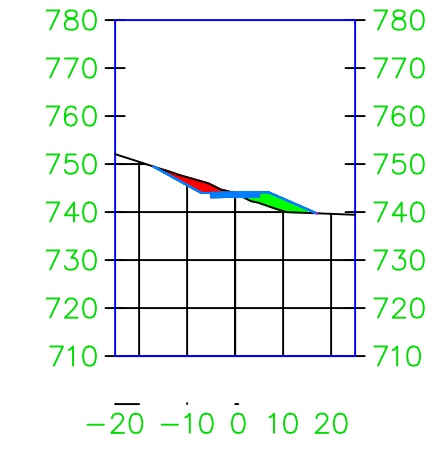
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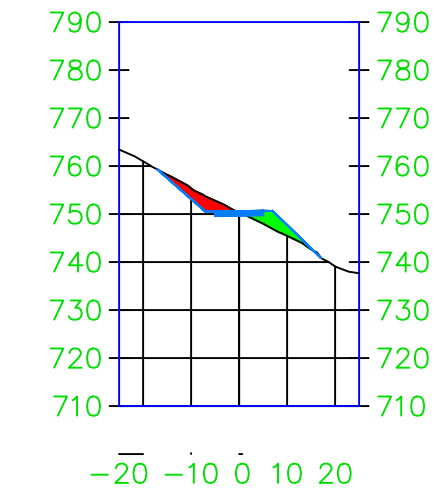
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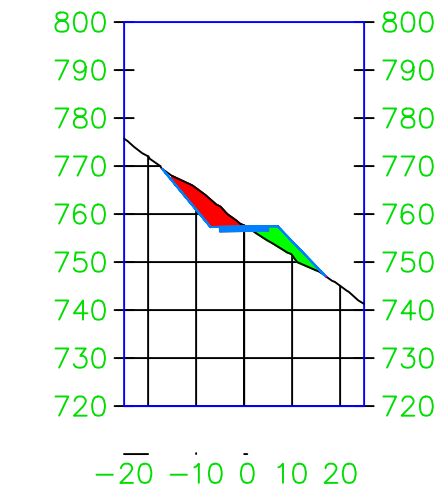
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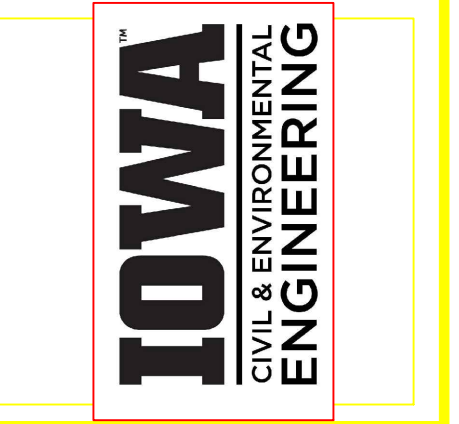


413+00.00



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

THE UNIVERSITY OF IOWA
CIVIL AND ENVIRONMENTAL ENGINEERING
 4105 SEAMANS CENTER FOR THE
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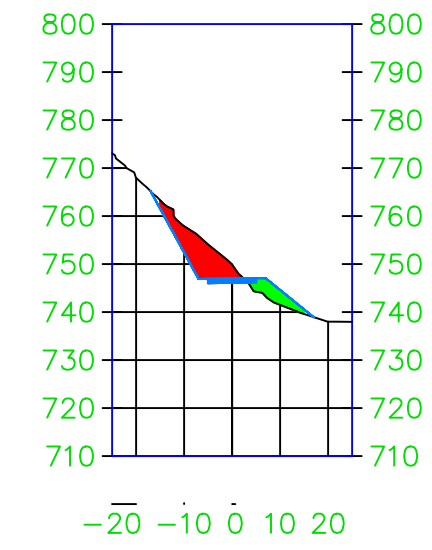
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Volga Trail

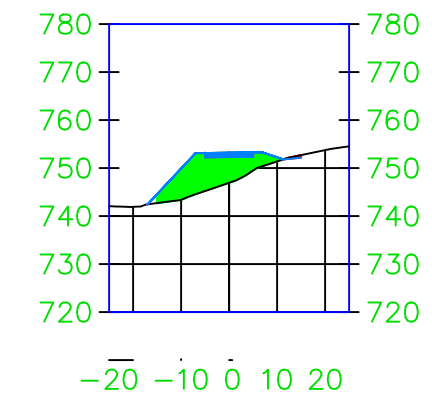
SHEET NAME
 SHEET NAME 1
 SHEET NAME 2

SHEET NO.
XX

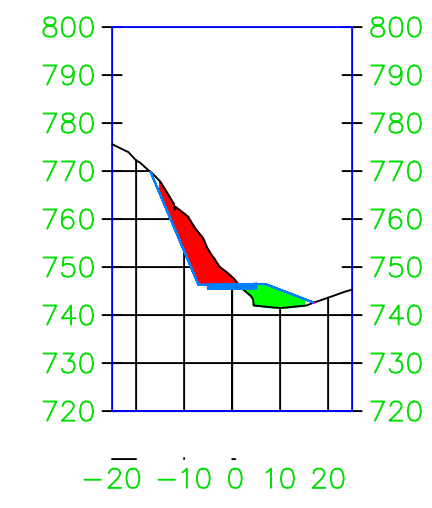
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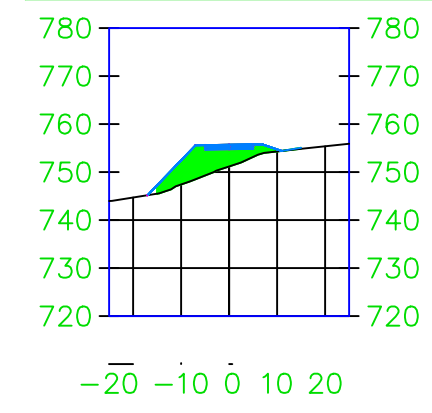
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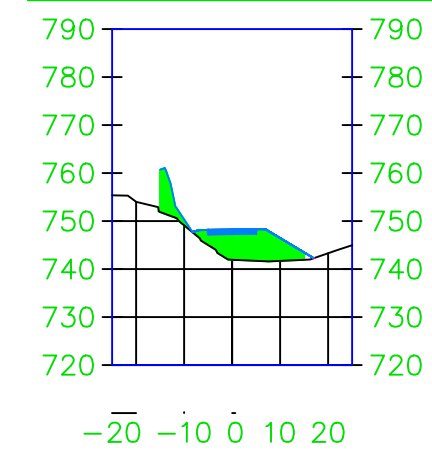
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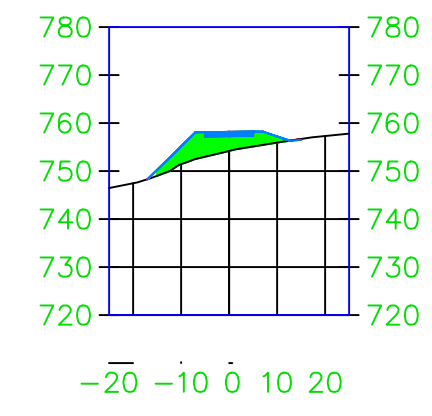
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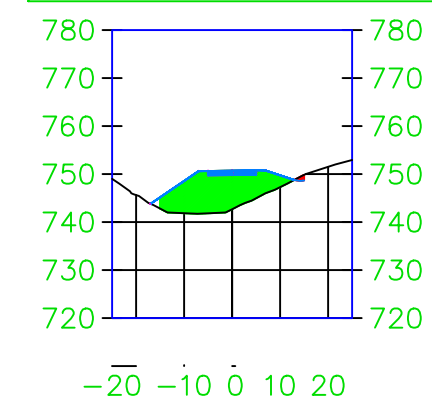
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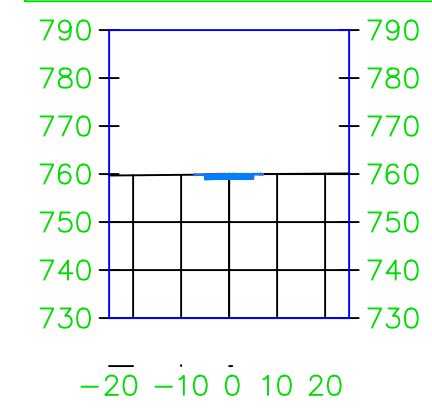
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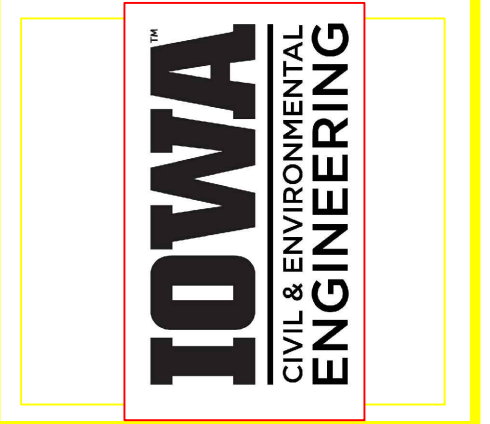


425+85.32



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

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

SHEET NAME
 SHEET NAME 1
 SHEET NAME 2

SHEET NO.
XX

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CUT & FILL

Table with 7 columns: Station, Fill Area, Cut Area, Fill Volume, Cut Volume, Cumulative Fill Vol, Cumulative Cut Vol. Rows 0+00.00 to 9+50.00.

PRODUCED BY AN AUTODESK STUDENT VERSION

Table with 7 columns: Station, Fill Area, Cut Area, Fill Volume, Cut Volume, Cumulative Fill Vol, Cumulative Cut Vol. Rows 10+00.00 to 19+50.00.

Table with 7 columns: Station, Fill Area, Cut Area, Fill Volume, Cut Volume, Cumulative Fill Vol, Cumulative Cut Vol. Rows 20+00.00 to 29+50.00.

CUT & FILL

Total Volume Table with 7 columns: Station, Fill Area, Cut Area, Fill Volume, Cut Volume, Cumulative Fill Vol, Cumulative Cut Vol. Rows 30+00.00 to 39+50.00.

Total Volume Table

Total Volume Table with 7 columns: Station, Fill Area, Cut Area, Fill Volume, Cut Volume, Cumulative Fill Vol, Cumulative Cut Vol. Rows 40+00.00 to 49+50.00.

Total Volume Table

Total Volume Table with 7 columns: Station, Fill Area, Cut Area, Fill Volume, Cut Volume, Cumulative Fill Vol, Cumulative Cut Vol. Rows 50+00.00 to 59+50.00.

CUT & FILL

Total Volume Table with 7 columns: Station, Fill Area, Cut Area, Fill Volume, Cut Volume, Cumulative Fill Vol, Cumulative Cut Vol. Rows 60+00.00 to 69+00.00.

Total Volume Table

Total Volume Table with 7 columns: Station, Fill Area, Cut Area, Fill Volume, Cut Volume, Cumulative Fill Vol, Cumulative Cut Vol. Rows 70+00.00 to 79+00.00.

Total Volume Table

Total Volume Table with 7 columns: Station, Fill Area, Cut Area, Fill Volume, Cut Volume, Cumulative Fill Vol, Cumulative Cut Vol. Rows 80+00.00 to 89+00.00.

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THE UNIVERSITY OF IOWA CIVIL AND ENVIRONMENTAL ENGINEERING. PROJECT: CEE: 4. DATE: 4/17/2. DRAWN BY: 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 SHEET NAME 1 SHEET NAME 2

SHEET NO. XX

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CUT & FILL

Table with 7 columns: Station, Fill Area, Cut Area, Fill Volume, Cut Volume, Cumulative Fill Vol, Cumulative Cut Vol. Rows 90+00.00 to 99+50.00.

PRODUCED BY AN AUTODESK STUDENT VERSION

Table with 7 columns: Station, Fill Area, Cut Area, Fill Volume, Cut Volume, Cumulative Fill Vol, Cumulative Cut Vol. Rows 100+00.00 to 109+50.00.

CUT & FILL

Total Volume Table with 7 columns: Station, Fill Area, Cut Area, Fill Volume, Cut Volume, Cumulative Fill Vol, Cumulative Cut Vol. Rows 120+00.00 to 129+50.00.

Total Volume Table

Total Volume Table with 7 columns: Station, Fill Area, Cut Area, Fill Volume, Cut Volume, Cumulative Fill Vol, Cumulative Cut Vol. Rows 130+00.00 to 139+50.00.

Total Volume Table

Total Volume Table with 7 columns: Station, Fill Area, Cut Area, Fill Volume, Cut Volume, Cumulative Fill Vol, Cumulative Cut Vol. Rows 140+00.00 to 149+50.00.

CUT & FILL

Total Volume Table with 7 columns: Station, Fill Area, Cut Area, Fill Volume, Cut Volume, Cumulative Fill Vol, Cumulative Cut Vol. Rows 150+00.00 to 159+00.00.

Total Volume Table

Total Volume Table with 7 columns: Station, Fill Area, Cut Area, Fill Volume, Cut Volume, Cumulative Fill Vol, Cumulative Cut Vol. Rows 160+00.00 to 169+00.00.

Total Volume Table

Total Volume Table with 7 columns: Station, Fill Area, Cut Area, Fill Volume, Cut Volume, Cumulative Fill Vol, Cumulative Cut Vol. Rows 170+00.00 to 179+00.00.

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Volga Trail

SHEET NAME SHEET NAME 1 SHEET NAME 2

SHEET NO. XX

PROJECT: CEE: 4 DATE: 4/17/2

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CUT & FILL

Table with 7 columns: Station, Fill Area, Cut Area, Fill Volume, Cut Volume, Cumulative Fill Vol, Cumulative Cut Vol. Rows 180+00.00 to 189+50.00.

PRODUCED BY AN AUTODESK STUDENT VERSION

Table with 7 columns: Station, Fill Area, Cut Area, Fill Volume, Cut Volume, Cumulative Fill Vol, Cumulative Cut Vol. Rows 190+00.00 to 199+50.00.

PRODUCED BY AN AUTODESK STUDENT VERSION

Table with 7 columns: Station, Fill Area, Cut Area, Fill Volume, Cut Volume, Cumulative Fill Vol, Cumulative Cut Vol. Rows 200+00.00 to 209+50.00.

CUT & FILL

Total Volume Table with 7 columns: Station, Fill Area, Cut Area, Fill Volume, Cut Volume, Cumulative Fill Vol, Cumulative Cut Vol. Rows 210+00.00 to 219+50.00.

Total Volume Table

Total Volume Table with 7 columns: Station, Fill Area, Cut Area, Fill Volume, Cut Volume, Cumulative Fill Vol, Cumulative Cut Vol. Rows 220+00.00 to 229+50.00.

Total Volume Table

Total Volume Table with 7 columns: Station, Fill Area, Cut Area, Fill Volume, Cut Volume, Cumulative Fill Vol, Cumulative Cut Vol. Rows 230+00.00 to 239+50.00.

CUT & FILL

Total Volume Table with 7 columns: Station, Fill Area, Cut Area, Fill Volume, Cut Volume, Cumulative Fill Vol, Cumulative Cut Vol. Rows 240+00.00 to 249+00.00.

Total Volume Table

Total Volume Table with 7 columns: Station, Fill Area, Cut Area, Fill Volume, Cut Volume, Cumulative Fill Vol, Cumulative Cut Vol. Rows 250+00.00 to 259+00.00.

Total Volume Table

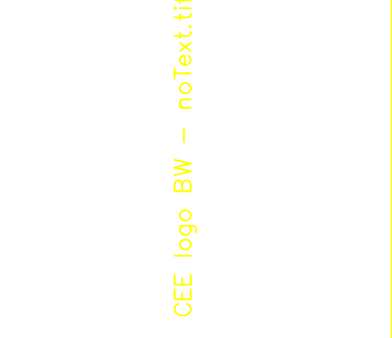
Total Volume Table with 7 columns: Station, Fill Area, Cut Area, Fill Volume, Cut Volume, Cumulative Fill Vol, Cumulative Cut Vol. Rows 260+00.00 to 269+00.00.

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PROJECT: CEE: 4
DATE: 4/17/2

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SHEET NAME 1
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SHEET NO.
XX

PRODUCED BY AN AUTODESK STUDENT VERSION

CUT & FILL

Table with 7 columns: Station, Fill Area, Cut Area, Fill Volume, Cut Volume, Cumulative Fill Vol, Cumulative Cut Vol. Rows 270+00.00 to 279+50.00.

Table with 7 columns: Station, Fill Area, Cut Area, Fill Volume, Cut Volume, Cumulative Fill Vol, Cumulative Cut Vol. Rows 280+00.00 to 289+50.00.

Table with 7 columns: Station, Fill Area, Cut Area, Fill Volume, Cut Volume, Cumulative Fill Vol, Cumulative Cut Vol. Rows 290+00.00 to 299+50.00.

CUT & FILL

Total Volume Table with 7 columns: Station, Fill Area, Cut Area, Fill Volume, Cut Volume, Cumulative Fill Vol, Cumulative Cut Vol. Rows 300+00.00 to 309+50.00.

Total Volume Table

Total Volume Table with 7 columns: Station, Fill Area, Cut Area, Fill Volume, Cut Volume, Cumulative Fill Vol, Cumulative Cut Vol. Rows 310+00.00 to 319+50.00.

Total Volume Table

Total Volume Table with 7 columns: Station, Fill Area, Cut Area, Fill Volume, Cut Volume, Cumulative Fill Vol, Cumulative Cut Vol. Rows 320+00.00 to 329+50.00.

CUT & FILL

Total Volume Table with 7 columns: Station, Fill Area, Cut Area, Fill Volume, Cut Volume, Cumulative Fill Vol, Cumulative Cut Vol. Rows 330+00.00 to 339+00.00.

Total Volume Table

Total Volume Table with 7 columns: Station, Fill Area, Cut Area, Fill Volume, Cut Volume, Cumulative Fill Vol, Cumulative Cut Vol. Rows 340+00.00 to 349+00.00.

Total Volume Table

Total Volume Table with 7 columns: Station, Fill Area, Cut Area, Fill Volume, Cut Volume, Cumulative Fill Vol, Cumulative Cut Vol. Rows 350+00.00 to 359+00.00.

PROJECT: CEE: 4
DATE: 4/17/2

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Volga Trail

SHEET NAME

SHEET NAME 1
SHEET NAME 2

SHEET NO.



CUT & FILL

Total Volume Table						
Station	Fill Area	Cut Area	Fill Volume	Cut Volume	Cumulative Fill Vol	Cumulative Cut Vol
360+00.00	9.76	30.05	28.13	37.05	10827.44	10943.81
360+50.00	23.63	18.77	29.98	44.79	10857.42	10988.60
361+00.00	12.62	29.41	33.03	44.24	10890.45	11032.84
361+50.00	10.81	31.07	21.67	55.99	10912.12	11088.82
362+00.00	18.10	25.15	26.48	51.95	10938.60	11140.78
362+50.00	23.88	17.11	38.74	38.89	10977.35	11179.67
363+00.00	18.46	14.41	39.09	29.15	11016.44	11208.82
363+50.00	9.85	13.02	25.80	25.39	11042.24	11234.21
364+00.00	1.69	18.49	9.65	29.02	11051.88	11263.23
364+50.00	0.99	22.38	2.45	37.78	11054.34	11301.01
365+00.00	0.00	103.29	0.61	107.24	11054.95	11408.25
365+50.00	0.00	49.22	0.00	138.15	11054.95	11546.40
366+00.00	0.00	52.50	0.00	94.16	11054.95	11640.56
366+50.00	0.00	65.67	0.00	109.19	11054.95	11749.75
367+00.00	0.05	32.34	0.03	88.95	11054.98	11838.70
367+50.00	1.05	30.47	0.82	58.15	11055.79	11896.85
368+00.00	0.00	37.91	0.67	63.19	11056.46	11960.04
368+50.00	0.00	37.55	0.00	69.87	11056.47	12029.90
369+00.00	0.00	54.22	0.00	84.50	11056.47	12114.41
369+50.00	0.00	51.50	0.00	97.88	11056.47	12212.29

CUT & FILL

Total Volume Table						
Station	Fill Area	Cut Area	Fill Volume	Cut Volume	Cumulative Fill Vol	Cumulative Cut Vol
390+00.00	3.46	1.29	5.65	2.01	11907.29	12680.47
390+50.00	1.27	5.43	4.21	5.78	11911.50	12686.25
391+00.00	0.64	3.91	1.73	8.61	11913.23	12694.86
391+50.00	1.11	0.29	1.61	3.25	11914.84	12698.11
392+00.00	0.17	1.21	1.06	1.29	11915.89	12699.40
392+50.00	0.21	0.81	0.34	1.86	11916.24	12701.26
393+00.00	1.21	0.05	1.18	0.66	11917.42	12701.92
393+50.00	2.82	0.00	3.62	0.03	11921.04	12701.96
394+00.00	3.20	0.26	5.57	0.16	11926.60	12702.11
394+50.00	0.04	1.21	2.21	1.25	11928.81	12703.36
395+00.00	0.83	0.28	0.64	1.28	11929.45	12704.65
395+50.00	2.32	2.44	2.80	2.19	11932.26	12706.84
396+00.00	18.97	0.08	17.24	1.83	11949.49	12708.67
396+50.00	13.17	2.99	29.60	2.20	11979.09	12710.87
397+00.00	14.35	21.95	25.47	20.40	12004.56	12731.27
397+50.00	5.04	4.76	17.21	22.79	12021.77	12754.06
398+00.00	1.10	2.35	5.24	6.46	12027.01	12760.52
398+50.00	3.15	2.93	3.78	4.89	12030.79	12765.40
399+00.00	1.51	2.38	4.23	4.91	12035.02	12770.31
399+50.00	3.91	1.60	4.85	3.66	12039.87	12773.97

CUT & FILL

Total Volume Table						
Station	Fill Area	Cut Area	Fill Volume	Cut Volume	Cumulative Fill Vol	Cumulative Cut Vol
420+00.00	40.19	52.60	73.20	83.90	13312.12	14074.30
420+50.00	45.02	21.46	78.85	66.46	13390.98	14140.76
421+00.00	32.31	36.18	71.28	52.78	13462.26	14193.54
421+50.00	10.46	37.51	37.75	68.23	13500.01	14261.78
422+00.00	7.23	46.23	16.28	77.40	13516.29	14339.17
422+50.00	31.35	84.73	33.10	119.48	13549.39	14458.65
423+00.00	42.86	91.60	68.44	163.23	13617.83	14621.88
423+50.00	136.69	0.00	158.08	56.54	13775.91	14678.42
424+00.00	168.02	1.35	281.63	0.83	14057.54	14679.26
424+50.00	134.08	1.18	279.13	2.34	14336.67	14681.60
425+00.00	102.49	0.00	218.39	0.73	14555.06	14682.33
425+50.00	91.34	0.23	179.38	0.14	14734.44	14682.47
425+85.32	0.10	0.19	41.20	0.27	14775.65	14682.74

PRODUCED BY AN AUTODESK STUDENT VERSION
Total Volume Table

Station	Fill Area	Cut Area	Fill Volume	Cut Volume	Cumulative Fill Vol	Cumulative Cut Vol
370+00.00	11.02	27.58	6.80	72.08	11063.27	12284.37
370+50.00	25.00	12.04	32.49	35.70	11095.76	12320.07
371+00.00	82.82	0.00	94.65	7.43	11190.41	12327.50
371+50.00	93.33	0.00	163.00	0.00	11353.41	12327.50
372+00.00	28.54	0.00	107.08	0.00	11460.49	12327.50
372+50.00	4.70	5.76	27.66	3.55	11488.16	12331.06
373+00.00	7.36	1.96	11.07	6.84	11499.23	12337.90
373+50.00	11.35	0.63	17.19	2.28	11516.41	12340.18
374+00.00	7.40	0.35	17.23	0.89	11533.64	12341.06
374+50.00	2.87	6.94	9.19	5.45	11542.83	12346.52
375+00.00	2.59	10.01	5.06	15.60	11547.89	12362.12
375+50.00	2.66	5.46	4.86	14.11	11552.75	12376.23
376+00.00	4.16	2.21	6.27	6.88	11559.01	12383.11
376+50.00	3.10	1.22	6.70	3.13	11565.71	12386.24
377+00.00	1.64	8.36	4.32	7.89	11570.03	12394.13
377+50.00	2.08	9.75	3.44	16.76	11573.47	12410.88
378+00.00	1.03	20.71	2.83	27.58	11576.30	12438.46
378+50.00	132.95	0.00	89.94	12.78	11666.24	12451.24
379+00.00	2.20	10.86	93.97	6.70	11760.21	12457.95
379+50.00	2.38	12.71	4.23	21.80	11764.45	12479.75

Total Volume Table

Station	Fill Area	Cut Area	Fill Volume	Cut Volume	Cumulative Fill Vol	Cumulative Cut Vol
400+00.00	3.22	0.96	6.60	2.34	12046.47	12776.31
400+50.00	1.41	1.36	4.17	2.13	12050.64	12778.44
401+00.00	1.89	0.78	3.04	1.95	12053.68	12780.39
401+50.00	1.33	0.67	2.96	1.33	12056.64	12781.73
402+00.00	0.55	1.42	1.69	1.89	12058.33	12783.61
402+50.00	1.31	0.68	1.68	1.90	12060.01	12785.51
403+00.00	0.58	10.31	1.71	8.42	12061.71	12793.93
403+50.00	11.29	0.07	8.91	6.93	12070.62	12800.86
404+00.00	0.09	1.42	7.66	1.12	12078.28	12801.98
404+50.00	2.17	0.75	1.67	1.98	12079.95	12803.95
405+00.00	2.38	3.10	4.21	3.31	12084.16	12807.27
405+50.00	6.67	0.00	8.04	1.91	12092.20	12809.18
406+00.00	0.56	0.69	5.65	0.43	12097.85	12809.61
406+50.00	5.19	0.00	4.60	0.43	12102.45	12810.03
407+00.00	1.89	0.14	6.31	0.08	12108.75	12810.11
407+50.00	4.88	0.85	6.05	0.82	12114.81	12810.93
408+00.00	4.35	1.24	8.54	1.92	12123.35	12812.86
408+50.00	0.75	4.87	4.26	5.29	12127.61	12818.15
409+00.00	7.34	2.01	6.44	6.17	12134.05	12824.32
409+50.00	3.92	12.82	10.25	12.28	12144.30	12836.60

Total Volume Table

Station	Fill Area	Cut Area	Fill Volume	Cut Volume	Cumulative Fill Vol	Cumulative Cut Vol
380+00.00	1.68	12.40	3.74	23.25	11768.18	12503.00
380+50.00	1.12	11.07	2.57	21.72	11770.76	12524.72
381+00.00	2.11	2.18	2.94	11.21	11773.70	12535.93
381+50.00	3.12	2.41	4.81	4.24	11778.51	12540.17
382+00.00	0.65	10.06	3.20	10.73	11781.71	12550.90
382+50.00	1.94	11.66	2.29	20.09	11784.00	12570.99
383+00.00	3.43	11.24	4.91	21.21	11788.91	12592.20
383+50.00	4.69	15.87	7.49	24.98	11796.39	12617.18
384+00.00	7.51	4.74	11.19	18.07	11807.59	12635.25
384+50.00	15.08	0.00	20.52	2.92	11828.11	12638.18
385+00.00	4.84	0.04	17.57	0.03	11845.68	12638.20
385+50.00	3.97	0.80	8.14	0.63	11853.82	12638.83
386+00.00	2.46	4.84	5.90	4.69	11859.71	12643.52
386+50.00	7.66	0.27	8.93	3.86	11868.64	12647.38
387+00.00	3.27	4.69	9.84	3.76	11878.48	12651.14
387+50.00	0.80	7.75	3.51	11.40	11881.99	12662.54
388+00.00	6.64	1.84	6.01	8.25	11888.00	12670.79
388+50.00	3.21	0.37	8.92	1.88	11896.92	12672.66
389+00.00	0.17	2.77	2.55	2.57	11899.47	12675.23
389+50.00	2.66	0.90	2.17	3.23	11901.64	12678.46

Total Volume Table

Station	Fill Area	Cut Area	Fill Volume	Cut Volume	Cumulative Fill Vol	Cumulative Cut Vol
410+00.00	28.98	18.76	26.88	29.07	12171.18	12865.67
410+50.00	26.60	23.93	51.45	39.43	12222.63	12905.11
411+00.00	25.63	23.40	48.36	43.82	12271.00	12948.92
411+50.00	28.56	26.25	50.15	45.94	12321.14	12994.86
412+00.00	35.39	37.82	59.09	59.00	12380.24	13053.86
412+50.00	31.93	97.40	62.31	120.94	12442.54	13174.80
413+00.00	36.13	49.63	62.98	133.68	12505.53	13308.48
413+50.00	32.78	32.90	63.78	75.88	12569.31	13384.36
414+00.00	33.00	31.76	60.91	59.86	12630.22	13444.22
414+50.00	26.82	30.18	55.29	57.35	12685.51	13501.57
415+00.00	25.78	24.47	48.70	50.51	12734.21	13552.08
415+50.00	24.72	19.88	46.75	40.99	12780.96	13593.07
416+00.00	23.26	26.24	44.42	42.56	12825.38	13635.63
416+50.00	26.49	29.39	46.03	51.48	12871.41	13687.11
417+00.00	54.61	11.94	73.54	37.08	12944.95	13724.19
417+50.00	31.21	32.59	78.46	39.67	13023.41	13763.86
418+00.00	33.55	31.84	59.95	59.66	13083.35	13823.51
418+50.00	20.10	22.03	49.14	49.60	13132.50	13873.12
419+00.00	28.24	33.35	44.54	50.92	13177.04	13924.03
419+50.00	38.88	38.38	61.88			

SUBGRADE

Table with 4 columns: Station, Area, Volume, Cumulative Volume. Rows 0+00.00 to 9+50.00.

Table with 4 columns: Station, Area, Volume, Cumulative Volume. Rows 10+00.00 to 19+50.00.

Table with 4 columns: Station, Area, Volume, Cumulative Volume. Rows 20+00.00 to 29+50.00.

Table with 4 columns: Station, Area, Volume, Cumulative Volume. Rows 30+00.00 to 39+50.00.

Table with 4 columns: Station, Area, Volume, Cumulative Volume. Rows 40+00.00 to 49+50.00.

SUBGRADE

Material Table with 4 columns: Station, Area, Volume, Cumulative Volume. Rows 50+00.00 to 59+50.00.

Material Table with 4 columns: Station, Area, Volume, Cumulative Volume. Rows 60+00.00 to 69+50.00.

Material Table with 4 columns: Station, Area, Volume, Cumulative Volume. Rows 70+00.00 to 79+50.00.

Material Table with 4 columns: Station, Area, Volume, Cumulative Volume. Rows 80+00.00 to 89+50.00.

Material Table with 4 columns: Station, Area, Volume, Cumulative Volume. Rows 90+00.00 to 99+50.00.

SUBGRADE

Material Table with 4 columns: Station, Area, Volume, Cumulative Volume. Rows 100+00.00 to 109+00.00.

Material Table with 4 columns: Station, Area, Volume, Cumulative Volume. Rows 110+00.00 to 119+00.00.

Material Table with 4 columns: Station, Area, Volume, Cumulative Volume. Rows 120+00.00 to 129+00.00.

Material Table with 4 columns: Station, Area, Volume, Cumulative Volume. Rows 130+00.00 to 139+00.00.

Material Table with 4 columns: Station, Area, Volume, Cumulative Volume. Rows 140+00.00 to 149+00.00.

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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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EDUCATIONAL - NOT FOR CONSTRUCTION

Volga Trail

SHEET NAME SHEET NAME 1 SHEET NAME 2

SHEET NO. XX

PROJECT: CEE: 4 DATE: 4/17/2

DRAWN BY: REVISION:

SUBGRADE

Station	Area	Volume	Cumulative Volume
150+00.00	5.00	9.26	2740.74
150+50.00	5.00	9.26	2750.00
151+00.00	5.00	9.26	2759.26
151+50.00	5.00	9.26	2768.52
152+00.00	5.00	9.26	2777.78
152+50.00	5.00	9.26	2787.04
153+00.00	5.00	9.26	2796.30
153+50.00	5.00	9.26	2805.56
154+00.00	5.00	9.26	2814.81
154+50.00	5.00	9.26	2824.07
155+00.00	5.00	9.26	2833.33
155+50.00	5.00	9.26	2842.59
156+00.00	5.00	9.26	2851.85
156+50.00	5.00	9.26	2861.11
157+00.00	5.00	9.26	2870.37
157+50.00	5.00	9.26	2879.63
158+00.00	5.00	9.26	2888.89
158+50.00	5.00	9.26	2898.15
159+00.00	5.00	9.26	2907.41
159+50.00	5.00	9.26	2916.67

Station	Area	Volume	Cumulative Volume
160+00.00	5.00	9.26	2925.93
160+50.00	5.00	9.26	2935.19
161+00.00	5.00	9.26	2944.44
161+50.00	5.00	9.26	2953.70
162+00.00	5.00	9.26	2962.96
162+50.00	5.00	9.26	2972.22
163+00.00	5.00	9.26	2981.48
163+50.00	5.00	9.26	2990.74
164+00.00	5.00	9.26	3000.00
164+50.00	5.00	9.26	3009.26
165+00.00	5.00	9.26	3018.52
165+50.00	5.00	9.26	3027.78
166+00.00	5.00	9.26	3037.04
166+50.00	5.00	9.26	3046.30
167+00.00	5.00	9.26	3055.56
167+50.00	5.00	9.26	3064.81
168+00.00	5.00	9.26	3074.07
168+50.00	5.00	9.26	3083.33
169+00.00	5.00	9.26	3092.59
169+50.00	5.00	9.26	3101.85

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Station	Area	Volume	Cumulative Volume
170+00.00	5.00	9.26	3111.11
170+50.00	5.00	9.26	3120.37
171+00.00	5.00	9.26	3129.63
171+50.00	5.00	9.26	3138.89
172+00.00	5.00	9.26	3148.15
172+50.00	5.00	9.26	3157.41
173+00.00	5.00	9.26	3166.67
173+50.00	5.00	9.26	3175.93
174+00.00	5.00	9.26	3185.19
174+50.00	5.00	9.26	3194.44
175+00.00	5.00	9.26	3203.70
175+50.00	5.00	9.26	3212.96
176+00.00	5.00	9.26	3222.22
176+50.00	5.00	9.26	3231.48
177+00.00	5.00	9.26	3240.74
177+50.00	5.00	9.26	3250.00
178+00.00	5.00	9.26	3259.26
178+50.00	5.00	9.26	3268.52
179+00.00	5.00	9.26	3277.78
179+50.00	5.00	9.26	3287.04

Station	Area	Volume	Cumulative Volume
180+00.00	5.00	9.26	3296.30
180+50.00	5.00	9.26	3305.56
181+00.00	5.00	9.26	3314.81
181+50.00	5.00	9.26	3324.07
182+00.00	5.00	9.26	3333.33
182+50.00	5.00	9.26	3342.59
183+00.00	5.00	9.26	3351.85
183+50.00	5.00	9.26	3361.11
184+00.00	5.00	9.26	3370.37
184+50.00	5.00	9.26	3379.63
185+00.00	5.00	9.26	3388.89
185+50.00	5.00	9.26	3398.15
186+00.00	5.00	9.26	3407.41
186+50.00	5.00	9.26	3416.67
187+00.00	5.00	9.26	3425.93
187+50.00	5.00	9.26	3435.19
188+00.00	5.00	9.26	3444.44
188+50.00	5.00	9.26	3453.70
189+00.00	5.00	9.26	3462.96
189+50.00	5.00	9.26	3472.22

Station	Area	Volume	Cumulative Volume
190+00.00	5.00	9.26	3481.48
190+50.00	5.00	9.26	3490.74
191+00.00	5.00	9.26	3500.00
191+50.00	5.00	9.26	3509.26
192+00.00	5.00	9.26	3518.52
192+50.00	5.00	9.26	3527.78
193+00.00	5.00	9.26	3537.04
193+50.00	5.00	9.26	3546.30
194+00.00	5.00	9.26	3555.56
194+50.00	5.00	9.26	3564.81
195+00.00	5.00	9.26	3574.07
195+50.00	5.00	9.26	3583.33
196+00.00	0.00	3.09	3586.42
196+50.00	5.00	3.09	3589.51
197+00.00	5.00	9.26	3598.77
197+50.00	5.00	9.26	3608.02
198+00.00	5.00	9.26	3617.28
198+50.00	5.00	9.26	3626.54
199+00.00	5.00	9.26	3635.80
199+50.00	5.00	9.26	3645.06

SUBGRADE

Material Table			
Station	Area	Volume	Cumulative Volume
200+00.00	5.00	9.26	3654.32
200+50.00	5.00	9.26	3663.58
201+00.00	5.00	9.26	3672.84
201+50.00	5.00	9.26	3682.10
202+00.00	5.00	9.26	3691.36
202+50.00	5.00	9.26	3700.62
203+00.00	5.00	9.26	3709.88
203+50.00	5.00	9.26	3719.14
204+00.00	5.00	9.26	3728.40
204+50.00	5.00	9.26	3737.65
205+00.00	5.00	9.26	3746.91
205+50.00	5.00	9.26	3756.17
206+00.00	5.00	9.26	3765.43
206+50.00	5.00	9.26	3774.69
207+00.00	5.00	9.26	3783.95
207+50.00	5.00	9.26	3793.21
208+00.00	5.00	9.26	3802.47
208+50.00	5.00	9.26	3811.73
209+00.00	5.00	9.26	3820.99
209+50.00	5.00	9.26	3830.25

Material Table			
Station	Area	Volume	Cumulative Volume
210+00.00	5.00	9.26	3839.51
210+50.00	5.00	9.26	3848.77
211+00.00	5.00	9.26	3858.02
211+50.00	5.00	9.26	3867.28
212+00.00	5.00	9.26	3876.54
212+50.00	5.00	9.26	3885.80
213+00.00	5.00	9.26	3895.06
213+50.00	5.00	9.26	3904.32
214+00.00	5.00	9.26	3913.58
214+50.00	5.00	9.26	3922.84
215+00.00	5.00	9.26	3932.10
215+50.00	5.00	9.26	3941.36
216+00.00	5.00	9.26	3950.62
216+50.00	5.00	9.26	3959.88
217+00.00	5.00	9.26	3969.14
217+50.00	5.00	9.26	3978.40
218+00.00	5.00	9.26	3987.65
218+50.00	5.00	9.26	3996.91
219+00.00	5.00	9.26	4006.17
219+50.00	5.00	9.26	4015.43

Material Table			
Station	Area	Volume	Cumulative Volume
220+00.00	5.00	9.26	4024.69
220+50.00	5.00	9.26	4033.95
221+00.00	5.00	9.26	4043.21
221+50.00	5.00	9.26	4052.47
222+00.00	5.00	9.26	4061.73
222+50.00	5.00	9.26	4070.99
223+00.00	5.00	9.26	4080.25
223+50.00	5.00	9.26	4089.51
224+00.00	5.00	9.26	4098.77
224+50.00	5.00	9.26	4108.02
225+00.00	5.00	9.26	4117.28
225+50.00	5.00	9.26	4126.54
226+00.00	5.00	9.26	4135.80
226+50.00	5.00	9.26	4145.06
227+00.00	5.00	9.26	4154.32
227+50.00	5.00	9.26	4163.58
228+00.00	5.00	9.26	4172.84
228+50.00	5.00	9.26	4182.10
229+00.00	5.00	9.26	4191.36
229+50.00	5.00	9.26	4200.62

Material Table			
Station	Area	Volume	Cumulative Volume
230+00.00	5.00	9.26	4209.88
230+50.00	5.00	9.26	4219.14
231+00.00	5.00	9.26	4228.40
231+50.00	5.00	9.26	4237.65
232+00.00	5.00	9.26	4246.91
232+50.00	5.00	9.26	4256.17
233+00.00	5.00	9.26	4265.43
233+50.00	5.00	9.26	4274.69
234+00.00	5.00	9.26	4283.95
234+50.00	5.00	9.26	4293.21
235+00.00	5.00	9.26	4302.47
235+50.00	5.00	9.26	4311.73
236+00.00	5.00	9.26	4320.99
236+50.00	5.00	9.26	4330.25
237+00.00	5.00	9.26	4339.51
237+50.00	5.00	9.26	4348.77
238+00.00	5.00	9.26	4358.02
238+50.00	5.00	9.26	4367.28
239+00.00	5.00	9.26	4376.54
239+50.00	5.00	9.26	4385.80

Material Table			
Station	Area	Volume	Cumulative Volume
240+00.00	5.00	9.26	4395.06
240+50.00	5.00	9.26	4404.32
241+00.00	5.00	9.26	4413.58
241+50.00	5.00	9.26	4422.84
242+00.00	5.00	9.26	4432.10
242+50.00	5.00	9.26	4441.36
243+00.00	5.00	9.26	4450.62
243+50.00	5.00	9.26	4459.88
244+00.00	5.00	9.26	4469.14
244+50.00	5.00	9.26	4478.40
245+00.00	5.00	9.26	4487.65
245+50.00	5.00	9.26	4496.91
246+00.00	5.00	9.26	4506.17
246+50.00	5.00	9.26	4515.43
247+00.00	5.00	9.26	4524.69
247+50.00	5.00	9.26	4533.95
248+00.00	5.00	9.26	4543.21
248+50.00	5.00	9.26	4552.47
249+00.00	5.00	9.26	4561.73
249+50.00	5.00	9.26	4570.99

SUBGRADE

Material Table			
Station	Area	Volume	Cumulative Volume
250+00.00	5.00	9.26	4580.25
250+50.00	5.00	9.26	4589.51
251+00.00	5.00	9.26	4598.77
251+50.00	5.00	9.26	4608.02
252+00.00	5.00	9.26	4617.28
252+50.00	5.00	9.26	4626.54
253+00.00	5.00	9.26	4635.80
253+50.00	5.00	9.26	4645.06
254+00.00	5.00	9.26	4654.32
254+50.00	5.00	9.26	4663.58
255+00.00	5.00	9.26	4672.84
255+50.00	5.00	9.26	4682.10
256+00.00	5.00	9.26	4691.36
256+50.00	5.00	9.26	4700.62
257+00.00	5.00	9.26	4709.88
257+50.00	5.00	9.26	4719.14
258+00.00	5.00	9.26	4728.40
258+50.00	5.00	9.26	4737.65
259+00.00	5.00	9.26	4746.91

Material Table			
Station	Area	Volume	Cumulative Volume
260+00.00	5.00	9.26	4765.43
260+50.00	5.00	9.26	4774.69
261+00.00	5.00	9.26	4783.95
261+50.00	5.00	9.2	

SUBGRADE

Table with 4 columns: Station, Area, Volume, Cumulative Volume. Rows 300+00.00 to 309+50.00.

Table with 4 columns: Station, Area, Volume, Cumulative Volume. Rows 310+00.00 to 319+50.00.

Table with 4 columns: Station, Area, Volume, Cumulative Volume. Rows 320+00.00 to 329+50.00.

Table with 4 columns: Station, Area, Volume, Cumulative Volume. Rows 330+00.00 to 339+50.00.

Table with 4 columns: Station, Area, Volume, Cumulative Volume. Rows 340+00.00 to 349+50.00.

SUBGRADE

Material Table with 4 columns: Station, Area, Volume, Cumulative Volume. Rows 350+00.00 to 359+50.00.

Material Table with 4 columns: Station, Area, Volume, Cumulative Volume. Rows 360+00.00 to 369+50.00.

Material Table with 4 columns: Station, Area, Volume, Cumulative Volume. Rows 370+00.00 to 379+50.00.

Material Table with 4 columns: Station, Area, Volume, Cumulative Volume. Rows 380+00.00 to 389+50.00.

Material Table with 4 columns: Station, Area, Volume, Cumulative Volume. Rows 390+00.00 to 399+50.00.

SUBGRADE

Material Table with 4 columns: Station, Area, Volume, Cumulative Volume. Rows 400+00.00 to 409+00.00.

Material Table with 4 columns: Station, Area, Volume, Cumulative Volume. Rows 410+00.00 to 419+00.00.

Material Table with 4 columns: Station, Area, Volume, Cumulative Volume. Rows 420+00.00 to 425+85.32.

THE UNIVERSITY OF IOWA CIVIL AND ENVIRONMENTAL ENGINEERING. PROJECT: CEE: 4, DATE: 4/17/2, DRAWN BY: ENGINEERING ARTS AND SCIENCES, REVISION: 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 SHEET NAME 2

SHEET NO. XX

PAVEMENT

Material Table with columns: Station, Area, Volume, Cumulative Volume. Rows 0+00.00 to 9+50.00.

Material Table with columns: Station, Area, Volume, Cumulative Volume. Rows 10+00.00 to 19+50.00.

Material Table with columns: Station, Area, Volume, Cumulative Volume. Rows 20+00.00 to 29+50.00.

Material Table with columns: Station, Area, Volume, Cumulative Volume. Rows 30+00.00 to 39+50.00.

Material Table with columns: Station, Area, Volume, Cumulative Volume. Rows 40+00.00 to 49+50.00.

PAVEMENT

Material Table with columns: Station, Area, Volume, Cumulative Volume. Rows 50+00.00 to 59+50.00.

Material Table with columns: Station, Area, Volume, Cumulative Volume. Rows 60+00.00 to 69+50.00.

Material Table with columns: Station, Area, Volume, Cumulative Volume. Rows 70+00.00 to 79+50.00.

Material Table with columns: Station, Area, Volume, Cumulative Volume. Rows 80+00.00 to 89+50.00.

Material Table with columns: Station, Area, Volume, Cumulative Volume. Rows 90+00.00 to 99+50.00.

PAVEMENT

Material Table with columns: Station, Area, Volume, Cumulative Volume. Rows 100+00.00 to 109+00.00.

Material Table with columns: Station, Area, Volume, Cumulative Volume. Rows 110+00.00 to 119+00.00.

Material Table with columns: Station, Area, Volume, Cumulative Volume. Rows 120+00.00 to 129+00.00.

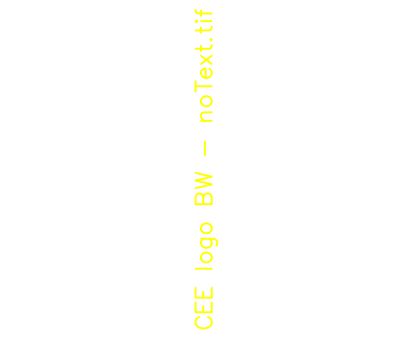
Material Table with columns: Station, Area, Volume, Cumulative Volume. Rows 130+00.00 to 139+00.00.

Material Table with columns: Station, Area, Volume, Cumulative Volume. Rows 140+00.00 to 149+00.00.

PROJECT: CEE: 4
DATE: 4/17/2

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
SHEET NAME 2

SHEET NO.
XX

PAVEMENT

Material Table with columns: Station, Area, Volume, Cumulative Volume. Rows 150+00.00 to 159+50.00.

Material Table with columns: Station, Area, Volume, Cumulative Volume. Rows 160+00.00 to 169+50.00.

Material Table with columns: Station, Area, Volume, Cumulative Volume. Rows 170+00.00 to 179+50.00.

Material Table with columns: Station, Area, Volume, Cumulative Volume. Rows 180+00.00 to 189+50.00.

Material Table with columns: Station, Area, Volume, Cumulative Volume. Rows 190+00.00 to 199+50.00.

PAVEMENT

Material Table with columns: Station, Area, Volume, Cumulative Volume. Rows 200+00.00 to 209+50.00.

Material Table with columns: Station, Area, Volume, Cumulative Volume. Rows 210+00.00 to 219+50.00.

Material Table with columns: Station, Area, Volume, Cumulative Volume. Rows 220+00.00 to 229+50.00.

Material Table with columns: Station, Area, Volume, Cumulative Volume. Rows 230+00.00 to 239+50.00.

Material Table with columns: Station, Area, Volume, Cumulative Volume. Rows 240+00.00 to 249+50.00.

PAVEMENT

Material Table with columns: Station, Area, Volume, Cumulative Volume. Rows 250+00.00 to 259+00.00.

Material Table with columns: Station, Area, Volume, Cumulative Volume. Rows 260+00.00 to 269+00.00.

Material Table with columns: Station, Area, Volume, Cumulative Volume. Rows 270+00.00 to 279+00.00.

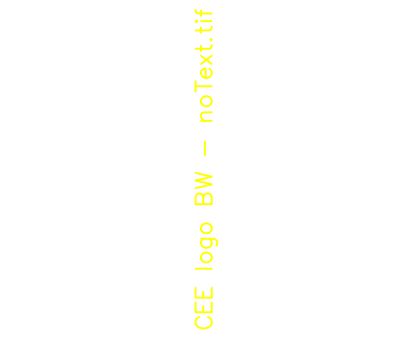
Material Table with columns: Station, Area, Volume, Cumulative Volume. Rows 280+00.00 to 289+00.00.

Material Table with columns: Station, Area, Volume, Cumulative Volume. Rows 290+00.00 to 299+00.00.

PROJECT: CEE: 4
DATE: 4/17/2

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
SHEET NAME 2

SHEET NO.
XX

PAVEMENT

Table with 4 columns: Station, Area, Volume, Cumulative Volume. Rows 300+00.00 to 309+50.00.

Table with 4 columns: Station, Area, Volume, Cumulative Volume. Rows 310+00.00 to 319+50.00.

Table with 4 columns: Station, Area, Volume, Cumulative Volume. Rows 320+00.00 to 329+50.00.

Table with 4 columns: Station, Area, Volume, Cumulative Volume. Rows 330+00.00 to 339+50.00.

Table with 4 columns: Station, Area, Volume, Cumulative Volume. Rows 340+00.00 to 349+50.00.

PAVEMENT

Material Table with 4 columns: Station, Area, Volume, Cumulative Volume. Rows 350+00.00 to 359+50.00.

Material Table with 4 columns: Station, Area, Volume, Cumulative Volume. Rows 360+00.00 to 369+50.00.

Material Table with 4 columns: Station, Area, Volume, Cumulative Volume. Rows 370+00.00 to 379+50.00.

Material Table with 4 columns: Station, Area, Volume, Cumulative Volume. Rows 380+00.00 to 389+50.00.

Material Table with 4 columns: Station, Area, Volume, Cumulative Volume. Rows 390+00.00 to 399+50.00.

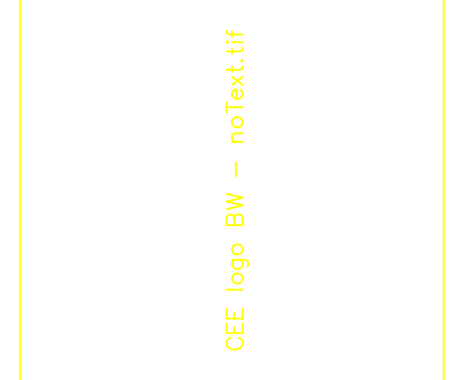
PAVEMENT

Material Table with 4 columns: Station, Area, Volume, Cumulative Volume. Rows 400+00.00 to 409+00.00.

Material Table with 4 columns: Station, Area, Volume, Cumulative Volume. Rows 410+00.00 to 419+00.00.

Material Table with 4 columns: Station, Area, Volume, Cumulative Volume. Rows 420+00.00 to 425+85.32.

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 SHEET NAME 1 SHEET NAME 2

SHEET NO. XX

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