

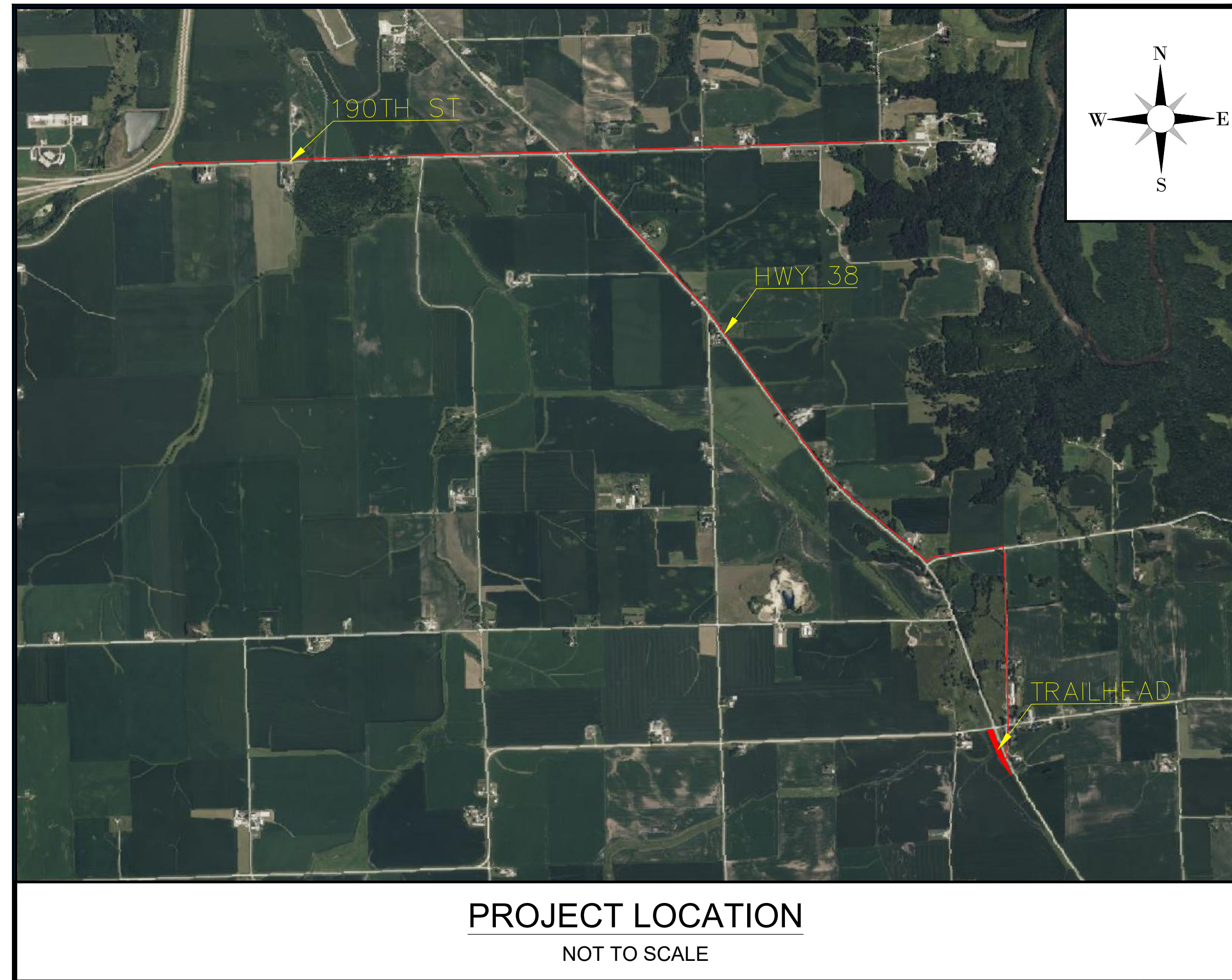
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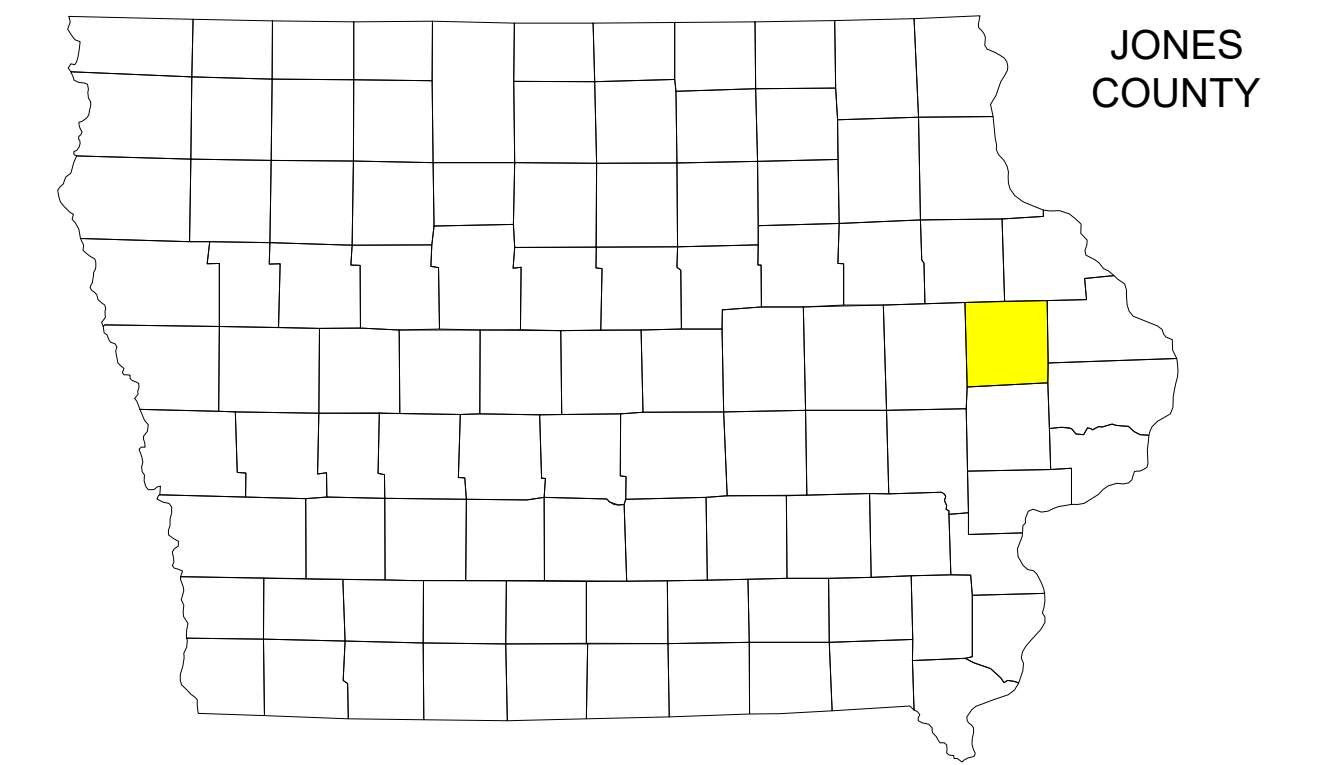
CITY OF SCOTCH GROVE, IOWA

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**SCOTCH GROVE REGIONAL TRAIL
PROJECT #1**



PROJECT LOCATION MAP



VICINITY MAP
NOT TO SCALE



PLANS PREPARED BY:



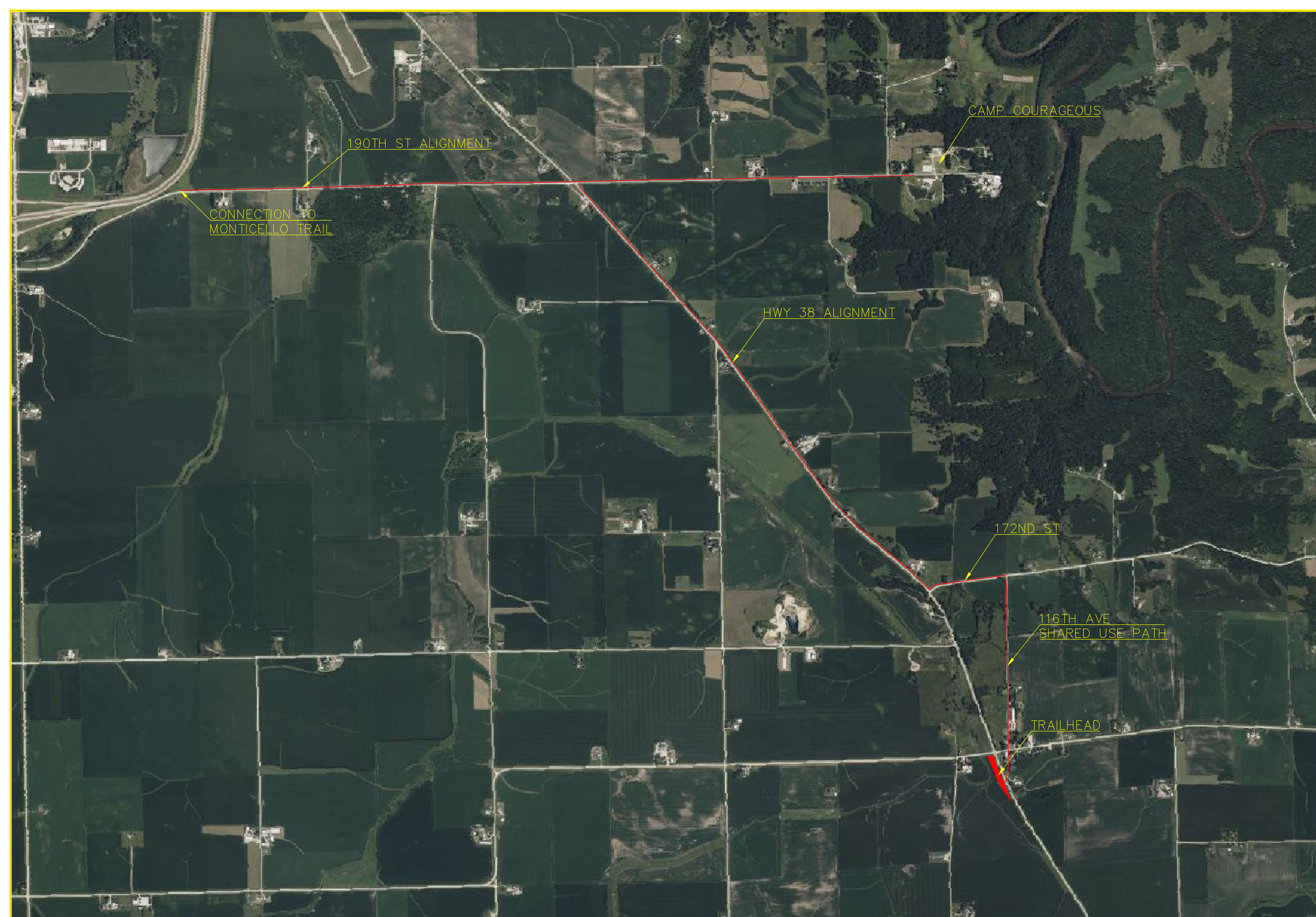
IOWA
CIVIL & ENVIRONMENTAL
ENGINEERING

MATERIAL QUANTITIES

PHASE	PHASE 1	PHASE 2	PHASE 3	PHASE 4
PAVEMENT VOLUME (TON)	30	3645	2008	2307
BASE MATERIAL VOLUME (CY)	105	2603	1434	1648
TOTAL CUT (CY)	18	1908	1311	2619
TOTAL FILL (CY)	26	8017	6060	7333

SHEET NO.

01



CONNECTION TO
MONTICELLO TRAIL

190TH ST ALIGNMENT

CAMP COURAGEOUS

HWY 38 ALIGNMENT

172ND ST

116TH AVE
SHARED USE PATH

TRAILHEAD

PROJECT:	CEE: 4850
DATE :	5/3/24
DRAWN BY:	SOLE MATES ENGINEERING
REVISION:	

THE UNIVERSITY OF IOWA
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 IOWA CITY, IOWA 52242
 PHONE: 319.335.5647
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 EMAIL: civil-hawks@iowad.edu

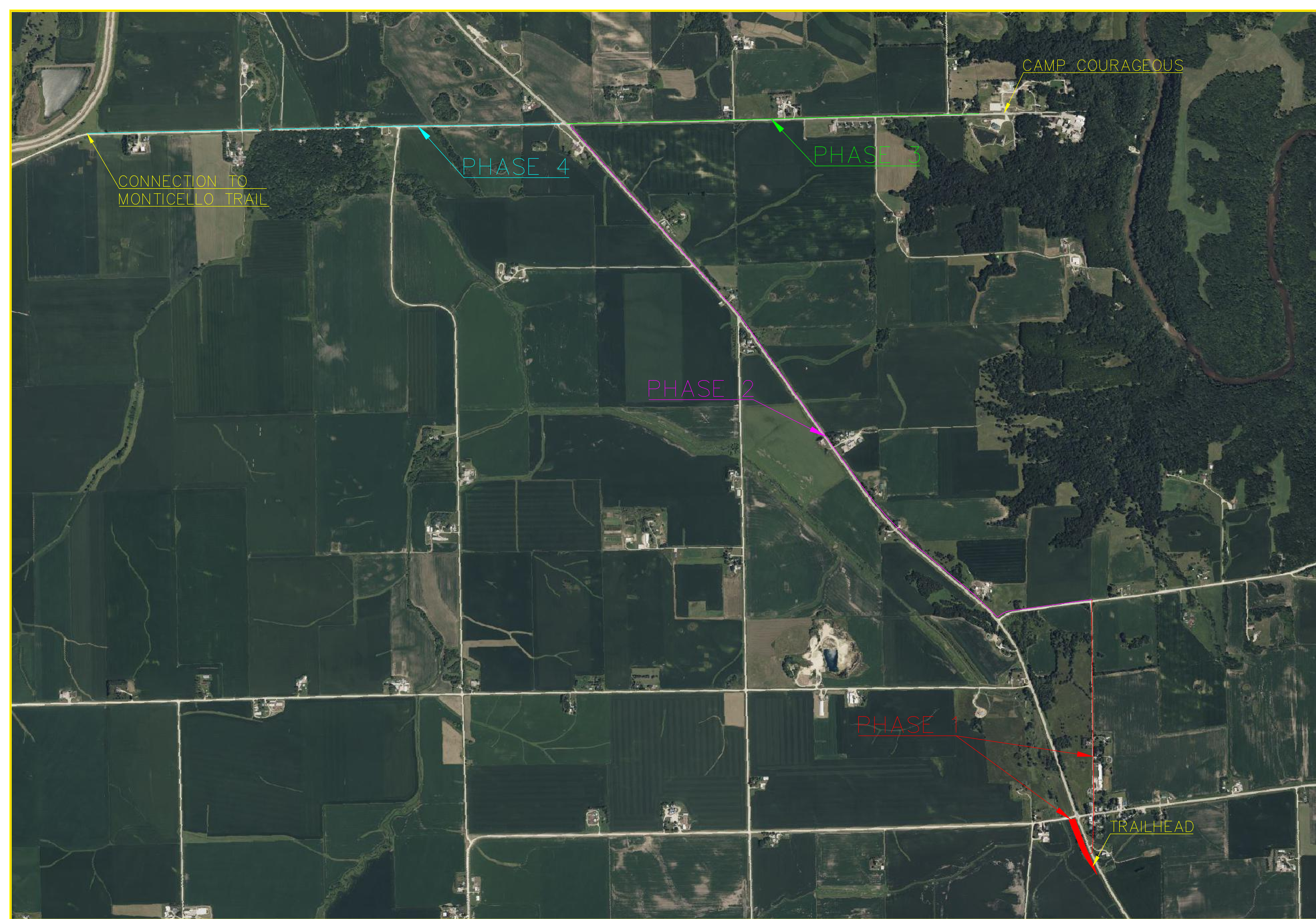


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REGIONAL TRAIL

SCOTCH GROVE, IA 52310

SHEET NAME	SITE PLAN
SHEET NO.	02



PROJECT:	CEE: 4850
DATE :	5/3/24
DRAWN BY:	SOLE MATES ENGINEERING
REVISION:	

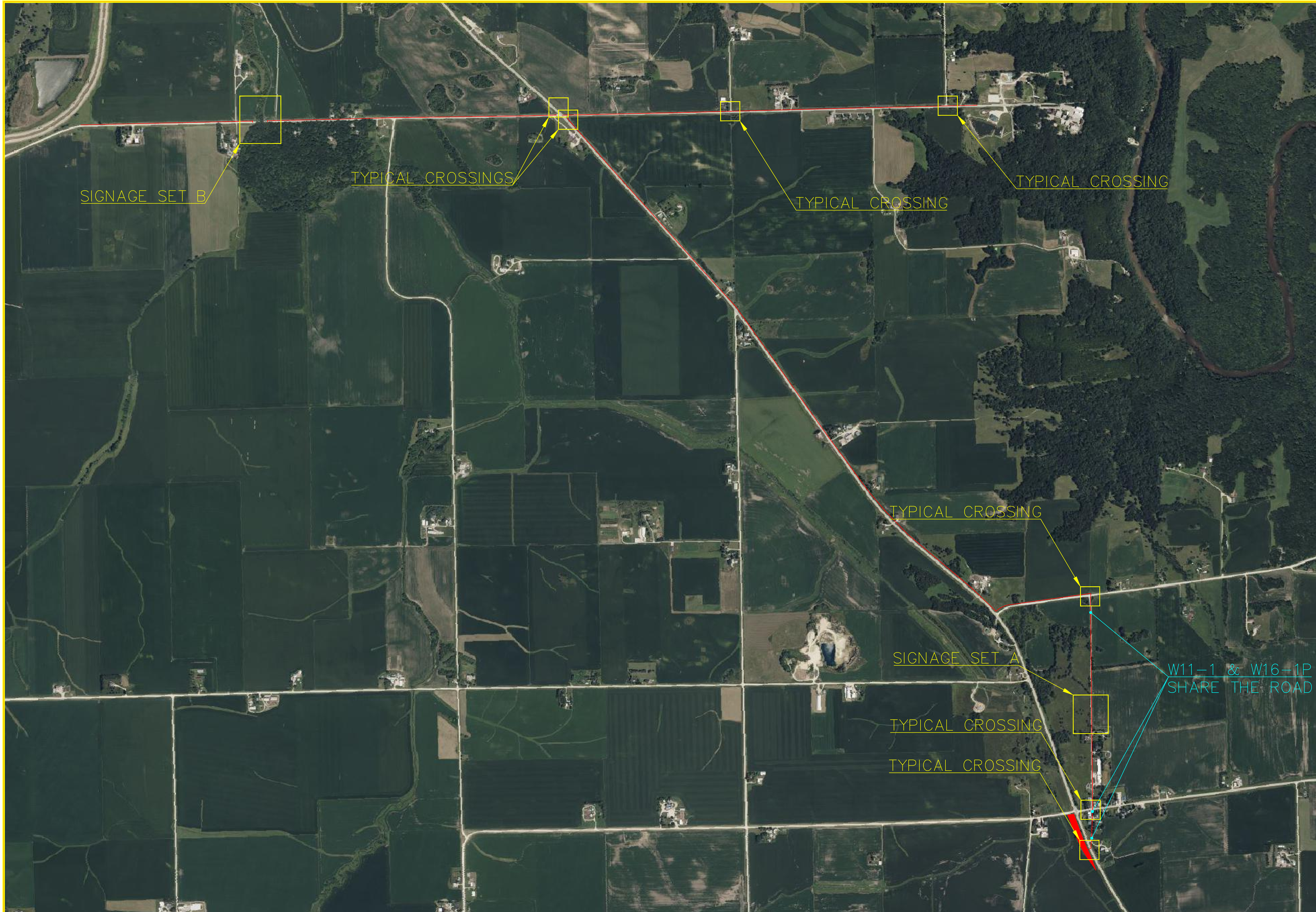
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 SCOTCH GROVE, IA 52310

SHEET NAME	PHASING PLAN
SHEET NO.	03



SIGNAGE SET B

TYPICAL CROSSINGS

TYPICAL CROSSING

TYPICAL CROSSING

TYPICAL CROSSING

SIGNAGE SET A

TYPICAL CROSSING

TYPICAL CROSSING

W11-1 & W16-1P
SHARE THE ROAD

PROJECT:	CEE: 4850
DATE :	5/3/24
DRAWN BY:	SOLE MATES ENGINEERING
REVISION:	

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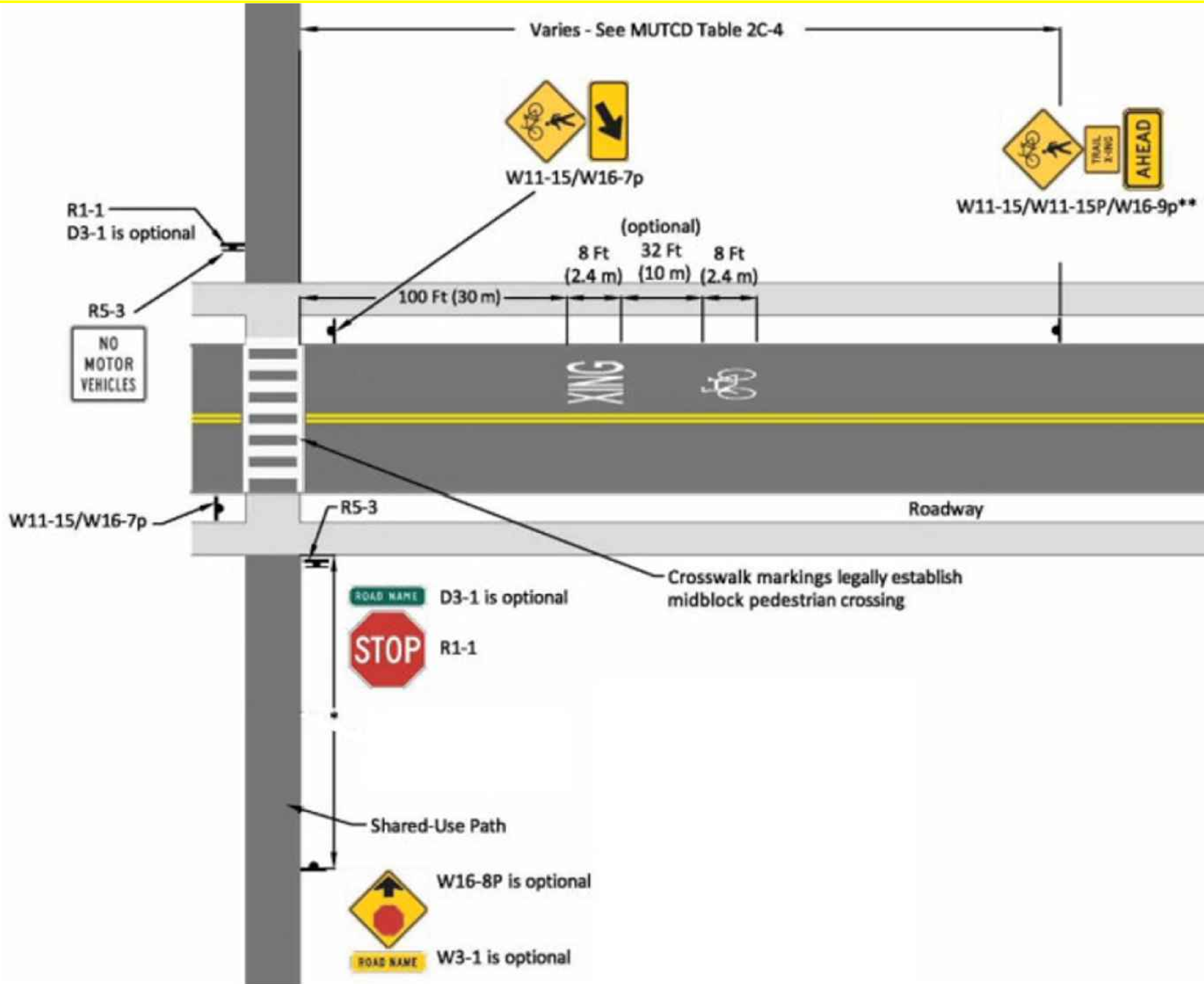


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REGIONAL TRAIL

SCOTCH GROVE, IA 52310

SHEET NAME	SIGNAGE PLAN
SHEET NO.	04



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 DATE: 5/3/24
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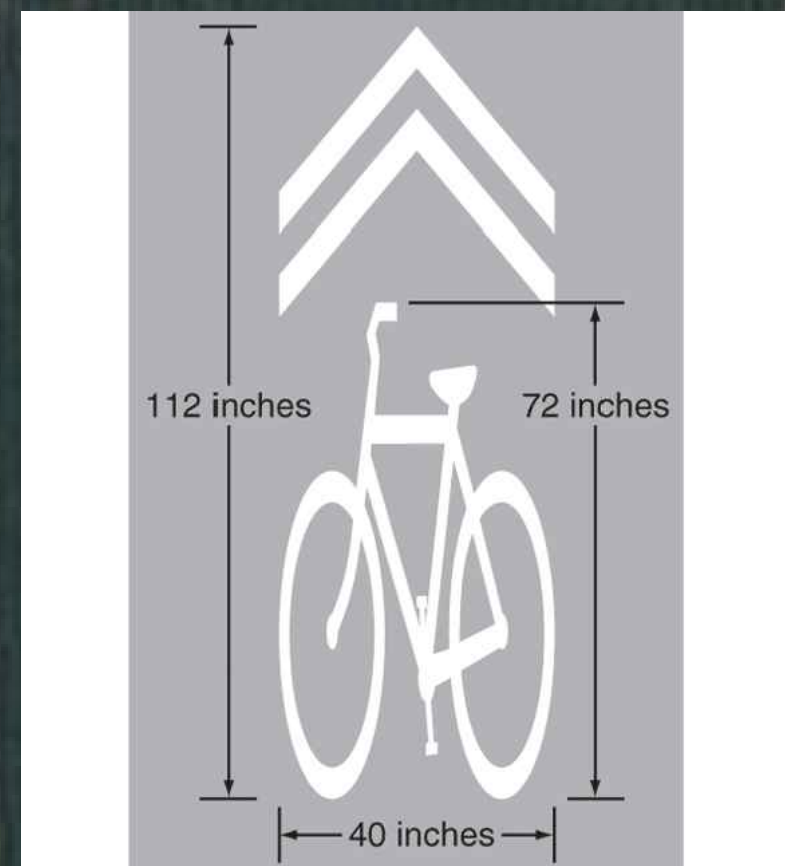
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 SCOTCH GROVE, IA 52310

SHEET NAME
 TYPICAL CROSSING PLAN

SHEET NO.
05

116TH AVE



MUTCD SHARED PAVEMENT MARKING PLACED AT 200FT INTERVALS ALONG 116TH AVE

SIGNAGE SET A

KITTY CREEK



W11-1 & W16-1P SHARE THE ROAD

190TH ST

SIGNAGE SET B

PROJECT:	CEE: 4850
DATE :	5/3/24
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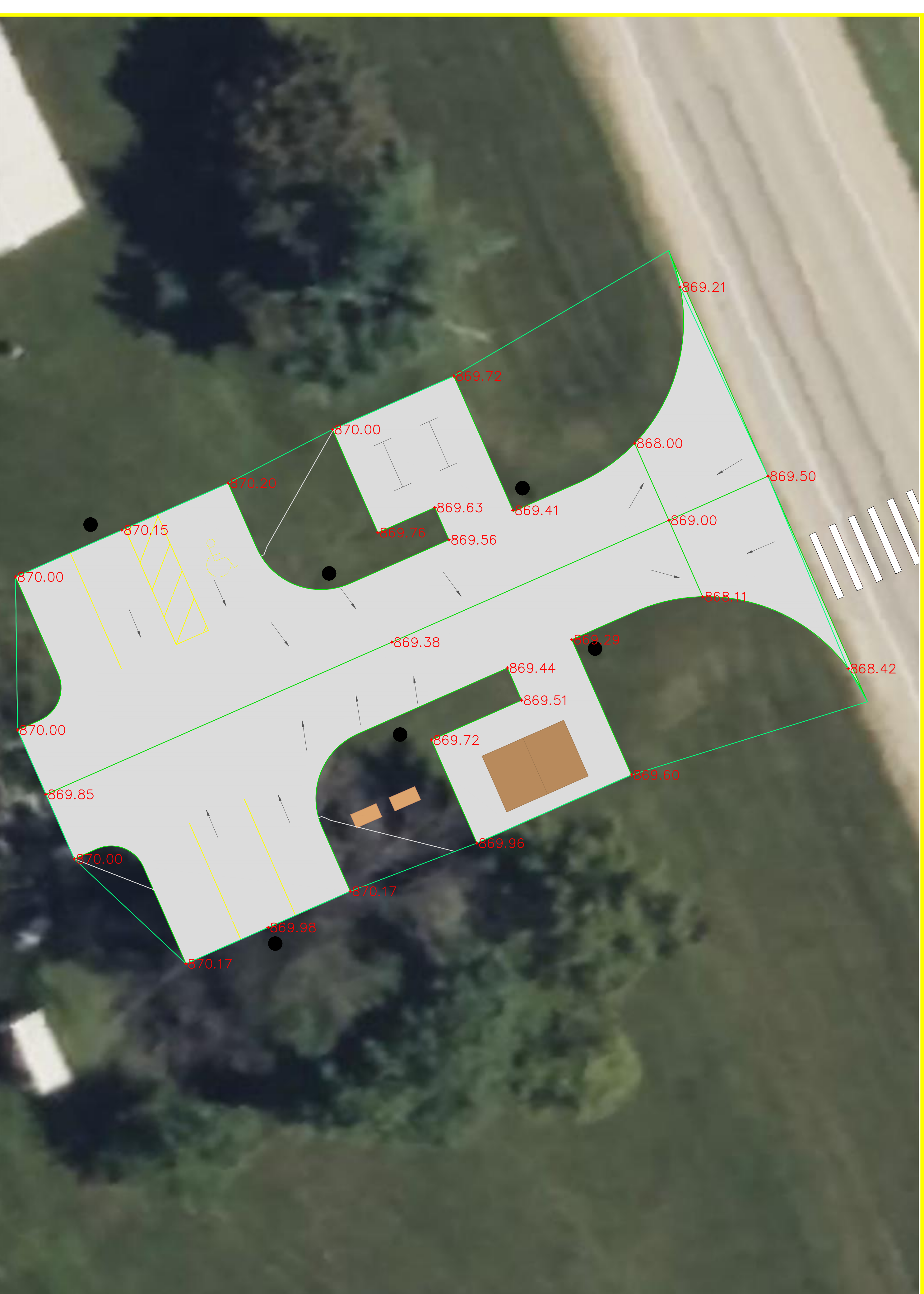



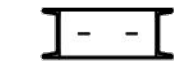
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REGIONAL TRAIL
 SCOTCH GROVE, IA 52310


SHEET NAME
SIGNAGE SETS

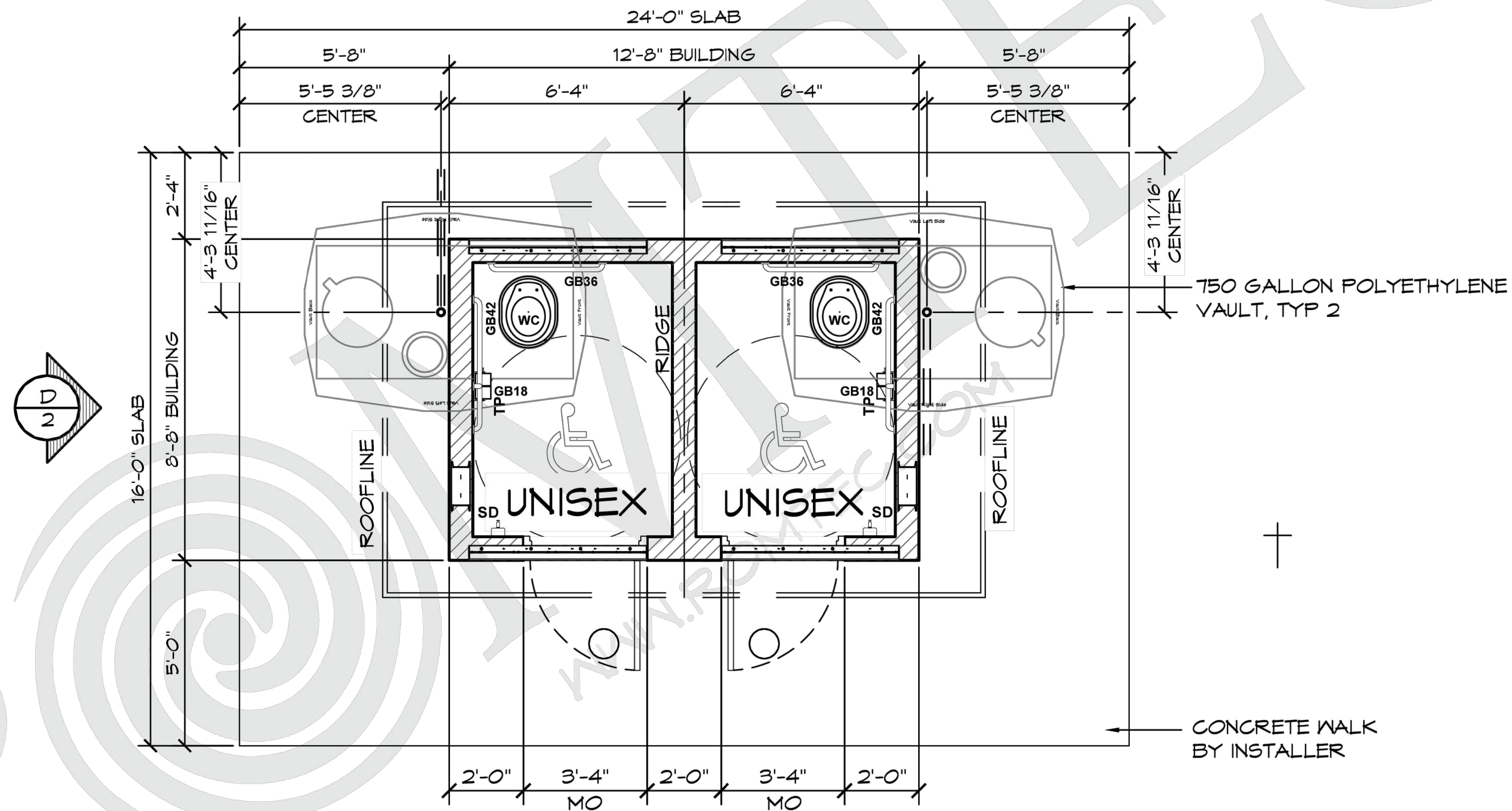
SHEET NO.
06



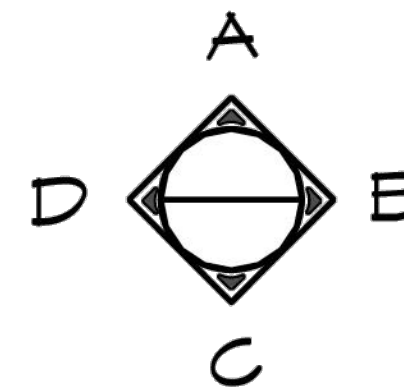
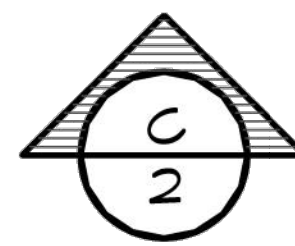
LEGEND		
SYMBOL	DESCRIPTION	AREA/ QUANTITY
	GABLE WINDOW	4
	16" x 24" KICKPROOF WALL VENT	2

THESE PLAN VIEW AND ELEVATION DRAWINGS ARE A PRELIMINARY ARCHITECTURAL REPRESENTATION OF THE BUILDING. ALL DIMENSIONS, FEATURES AND COMPONENTS SHOWN ON THESE PRELIMINARY DRAWINGS MAY OR MAY NOT BE PART OF THE QUOTE. PLEASE REFER TO THE "SCOPE OF SUPPLY AND SERVICES" LETTER PROVIDED WITH YOUR QUOTE FOR ROMTEC'S PROPOSED SCOPE OF SUPPLY.

WALL TYPE SCHEDULE	
	8" REINFORCED CONCRETE MASONRY BLOCK WALL WITH MORTAR JOINTS, GROUTED SOLID ALL CELLS RUNNING BOND PATTERN.



1 FLOOR PLAN
NOT-TO-SCALE



MODEL #1016

PROJECT: CEE: 4850
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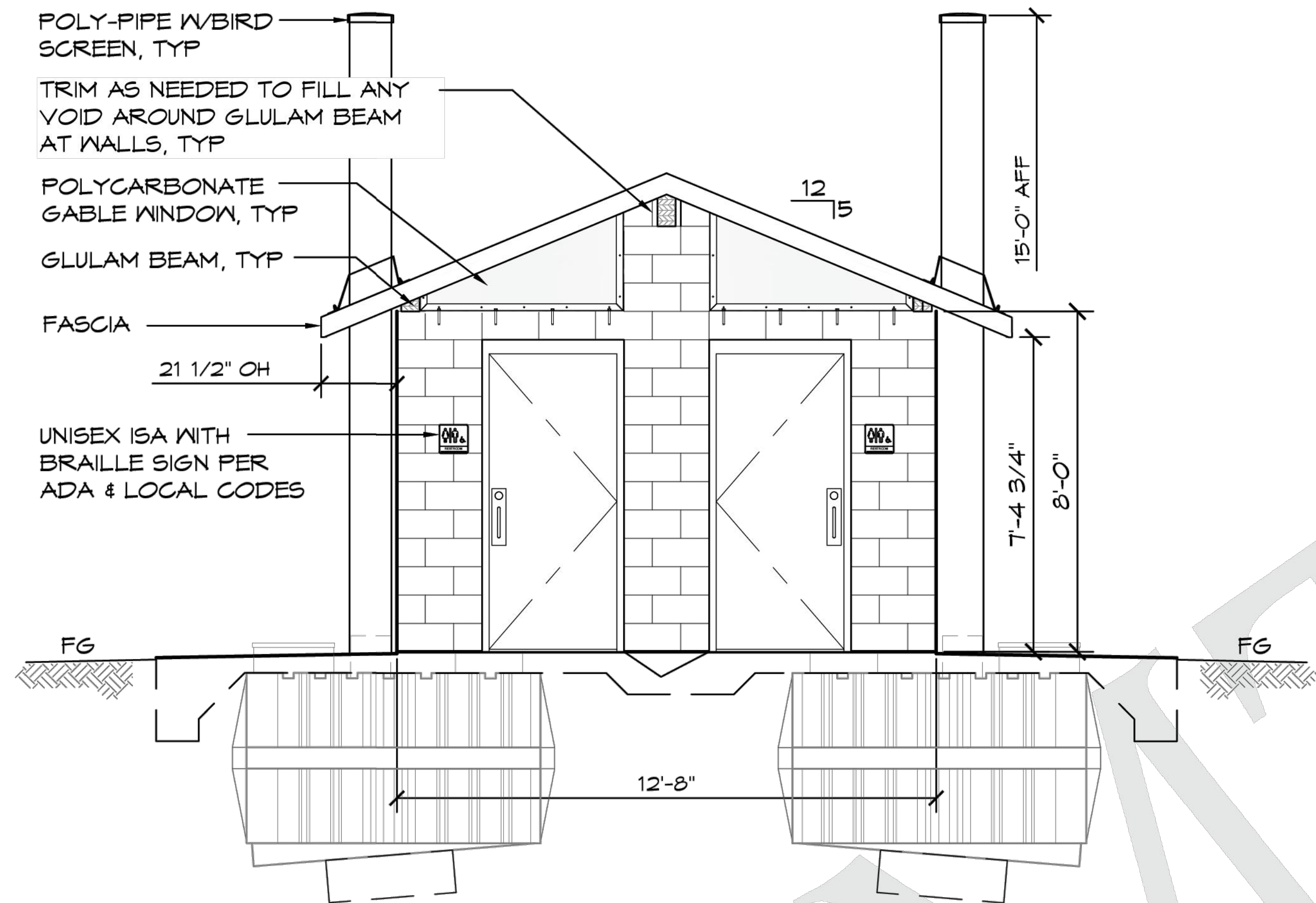


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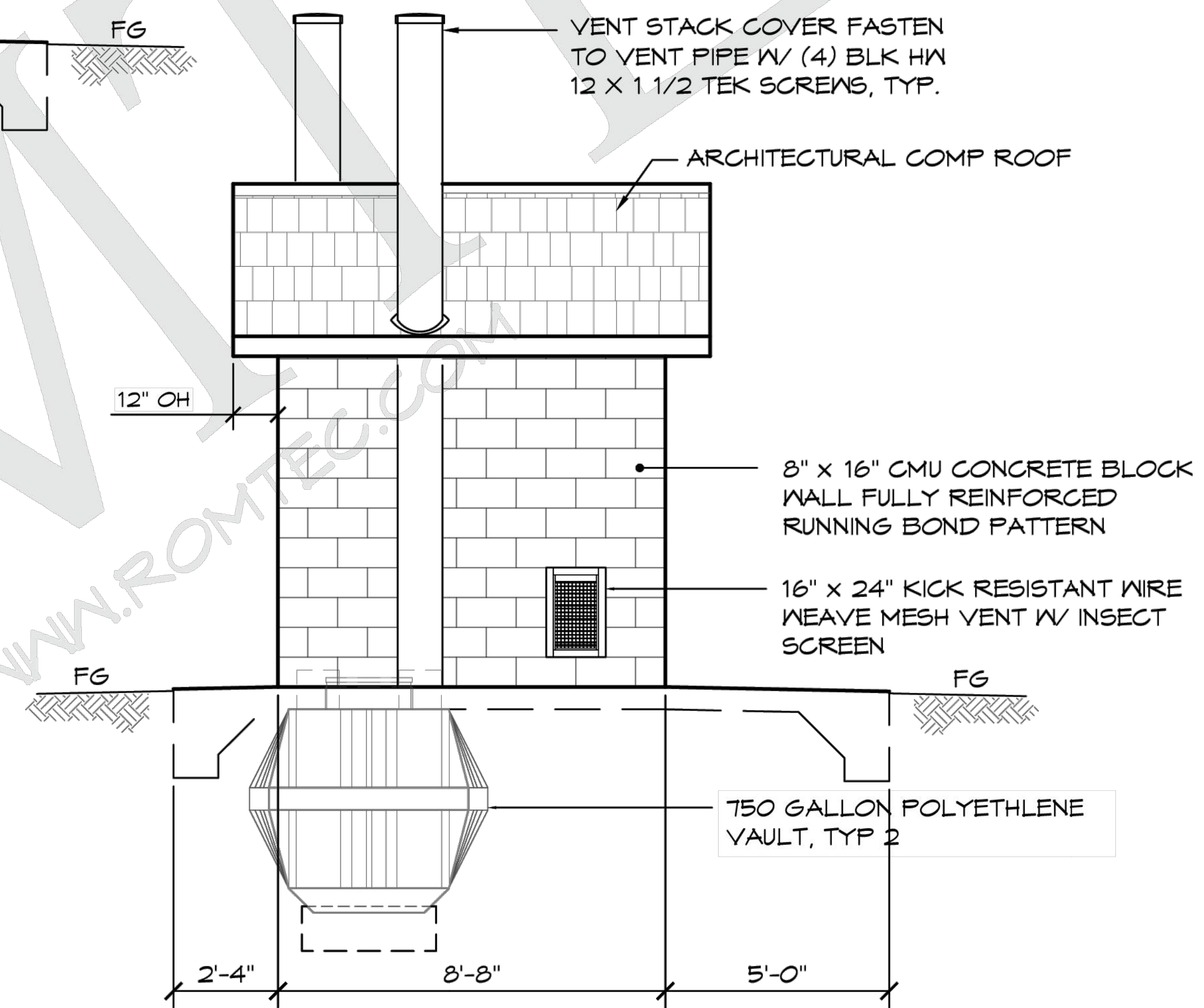
REGIONAL TRAIL
SCOTCH GROVE, IA 52310

SHEET NAME
RESTROOM

SHEET NO.
08



C ELEVATION VIEW
NOT-TO-SCALE



D ELEVATION VIEW
NOT-TO-SCALE

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REGIONAL TRAIL
 SCOTCH GROVE, IA 52310

SHEET NAME
 RESTROOM CONTINUED

SHEET NO.
09

MODEL #1016



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REGIONAL TRAIL
SCOTCH GROVE, IA 52310

SHEET NAME
PLAN & PROFILE OVERVIEW

SHEET NO.
10

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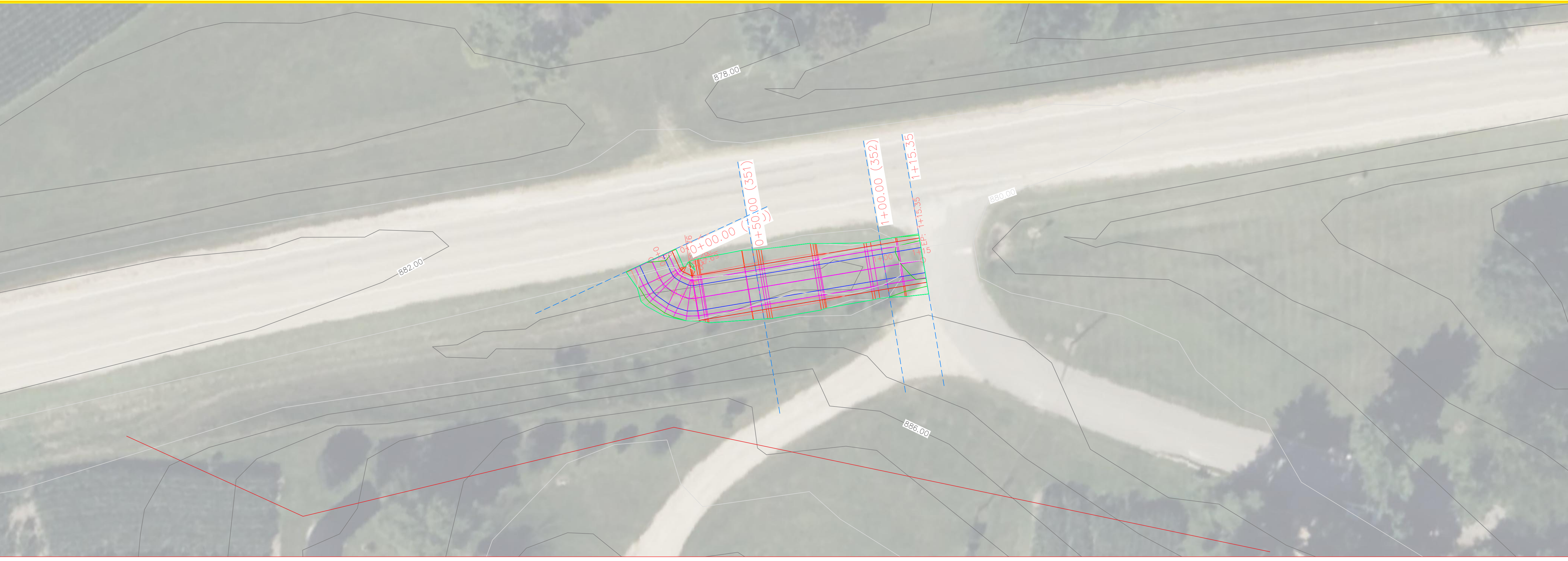


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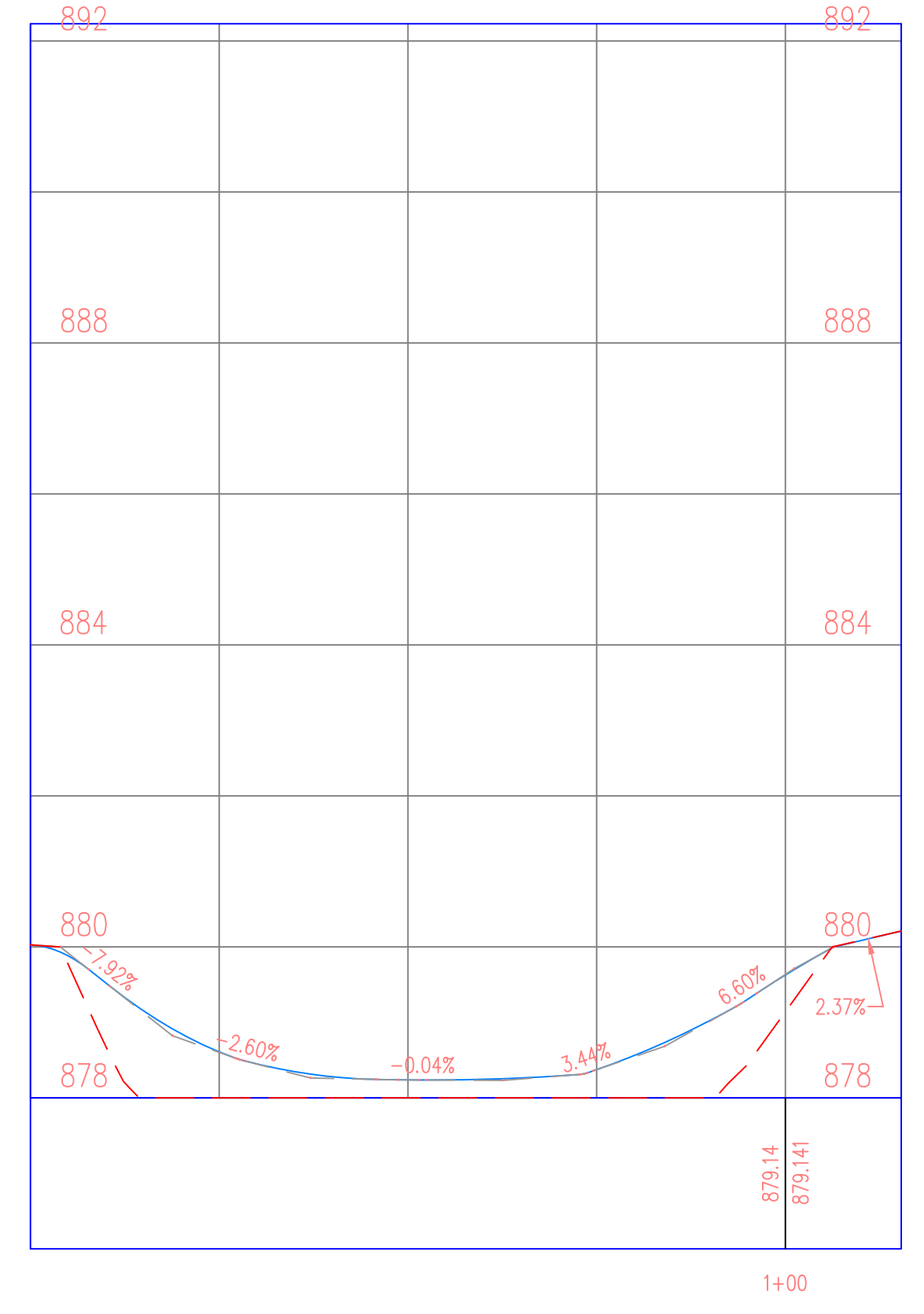
REGIONAL TRAIL
 SCOTCH GROVE, IA 52310

SHEET NAME
 TRAILHEAD TIE-IN
 PLAN & PROFILE

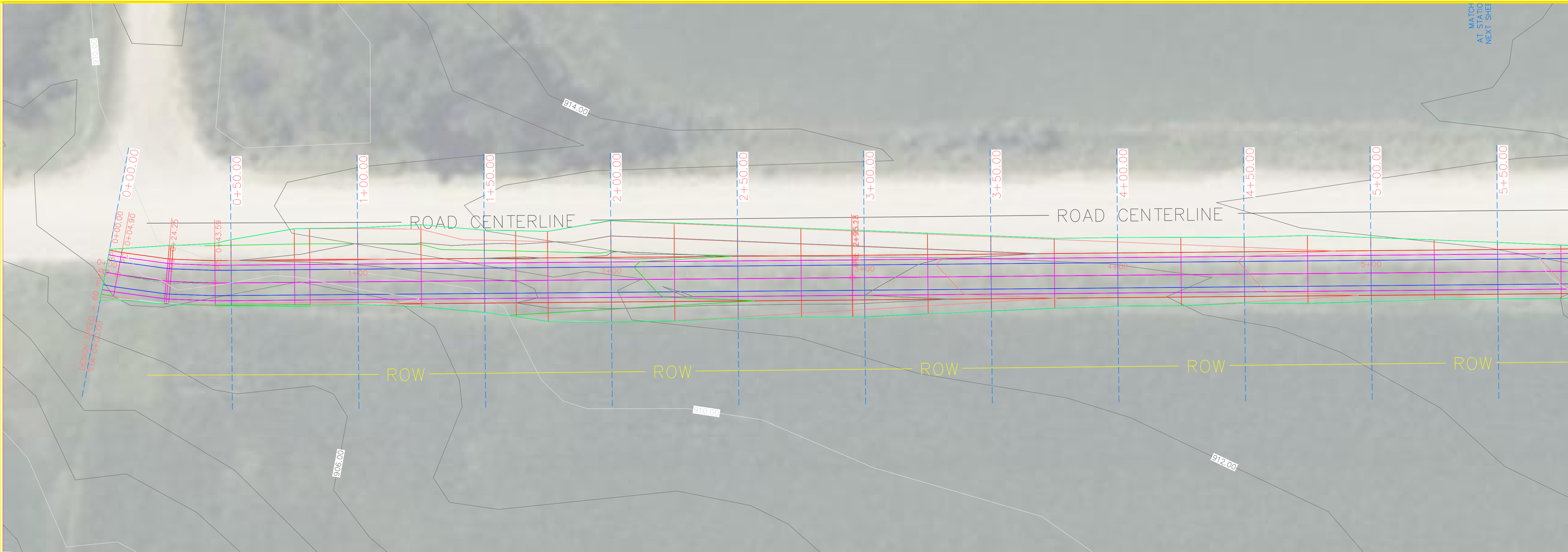
SHEET NO.
11



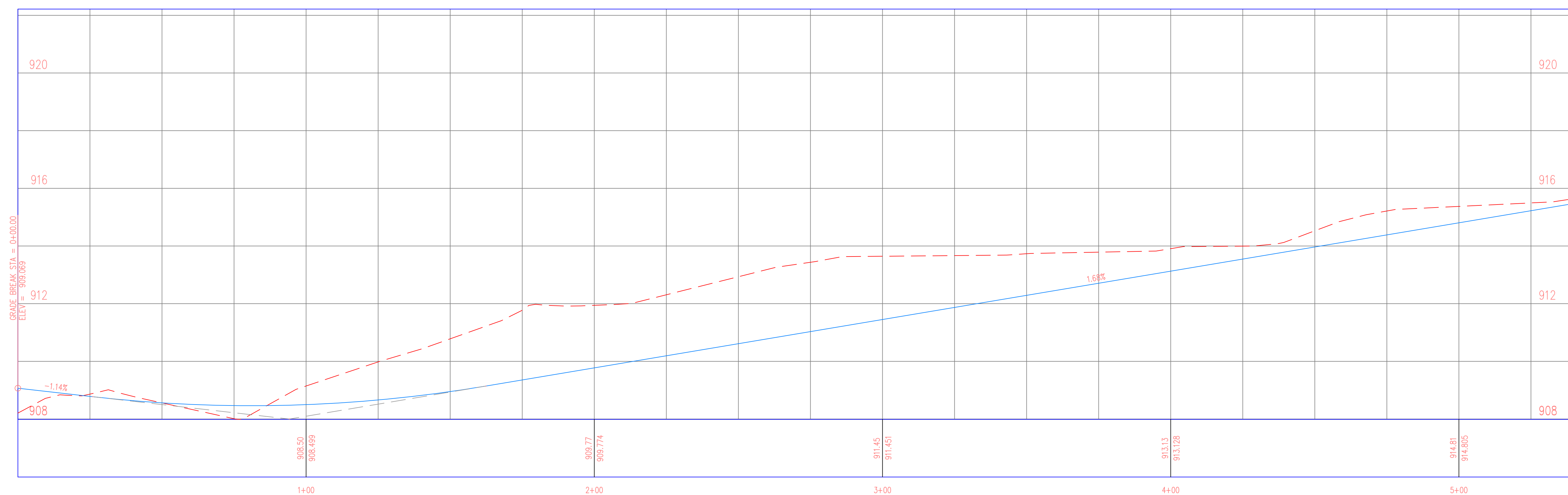
Trailhead PROFILE



1+00



38TH PROFILE



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 DATE: 5/3/24
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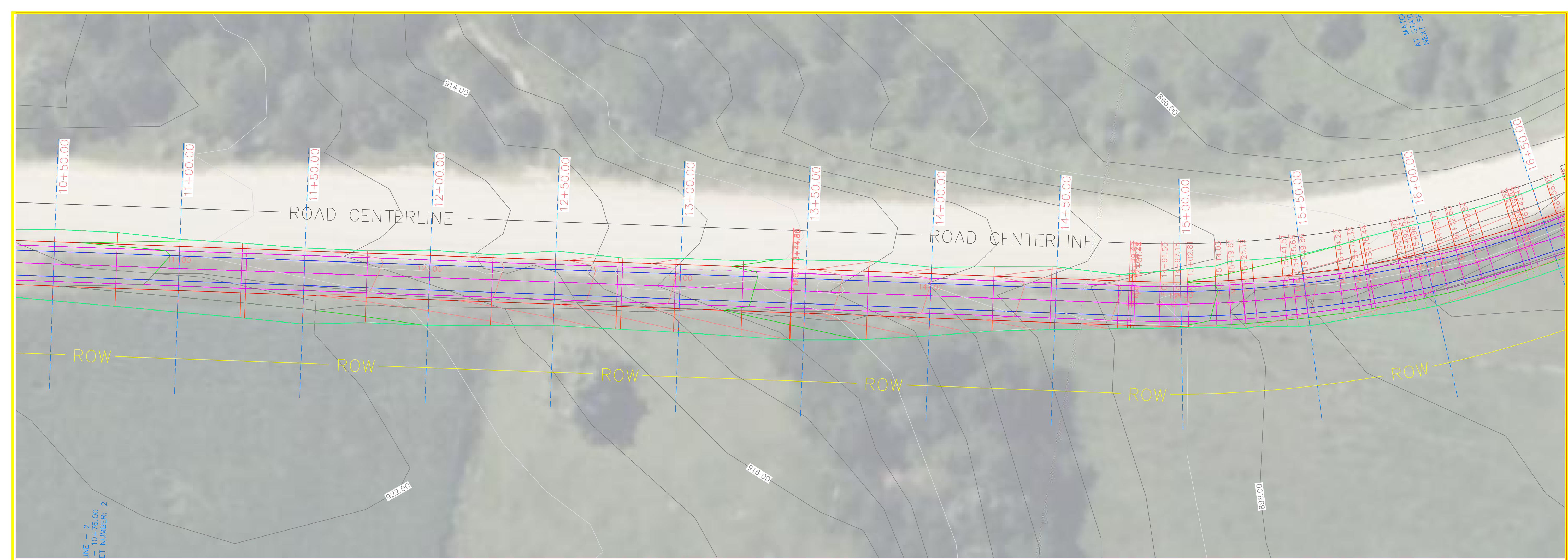


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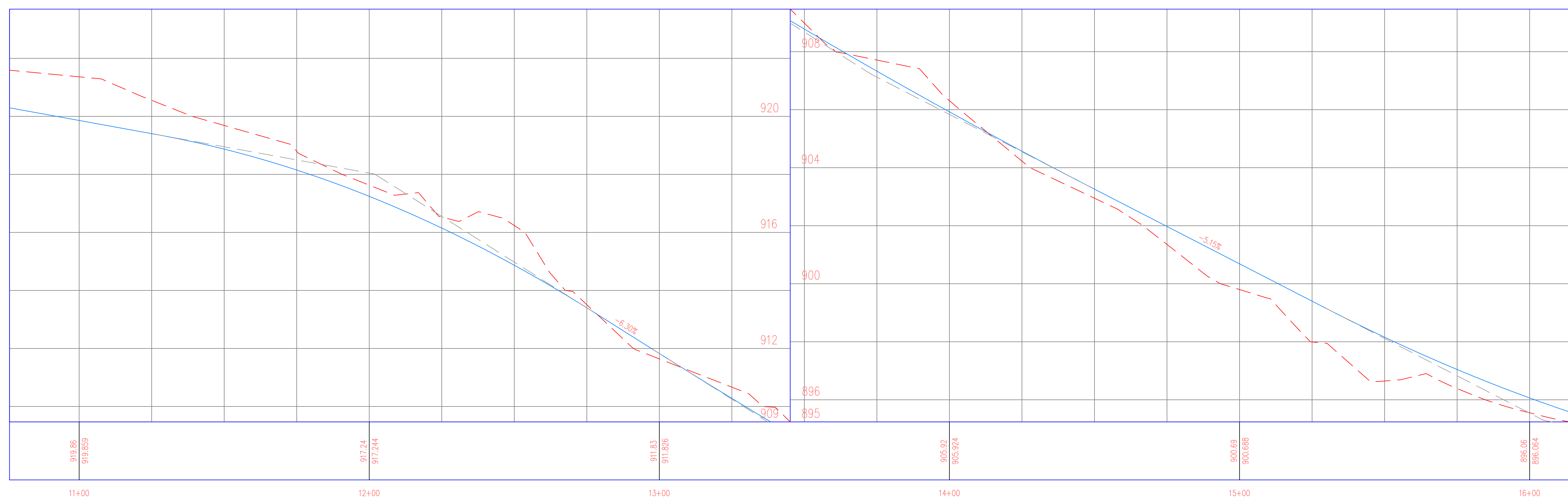
REGIONAL TRAIL
 SCOTCH GROVE, IA 52310

SHEET NAME
 38TH STREET
 PLAN & PROFILE

SHEET NO.
12



38TH PROFILE 38TH PROFILE



PROJECT: CEE: 4850
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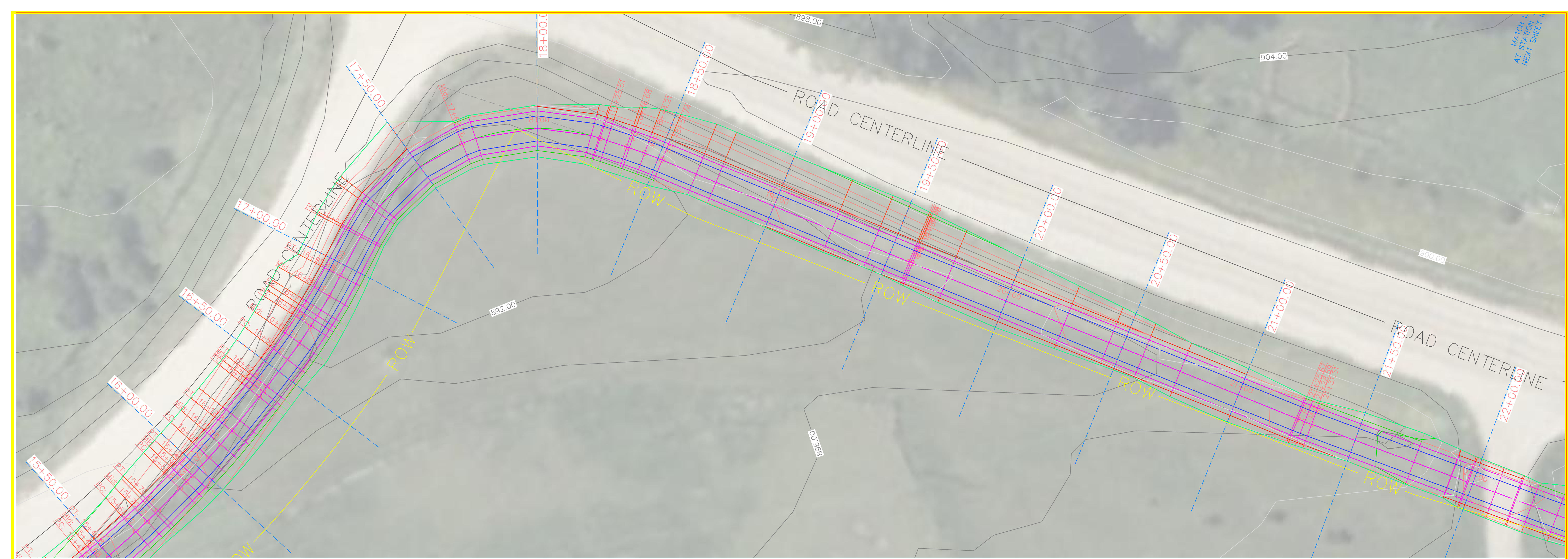


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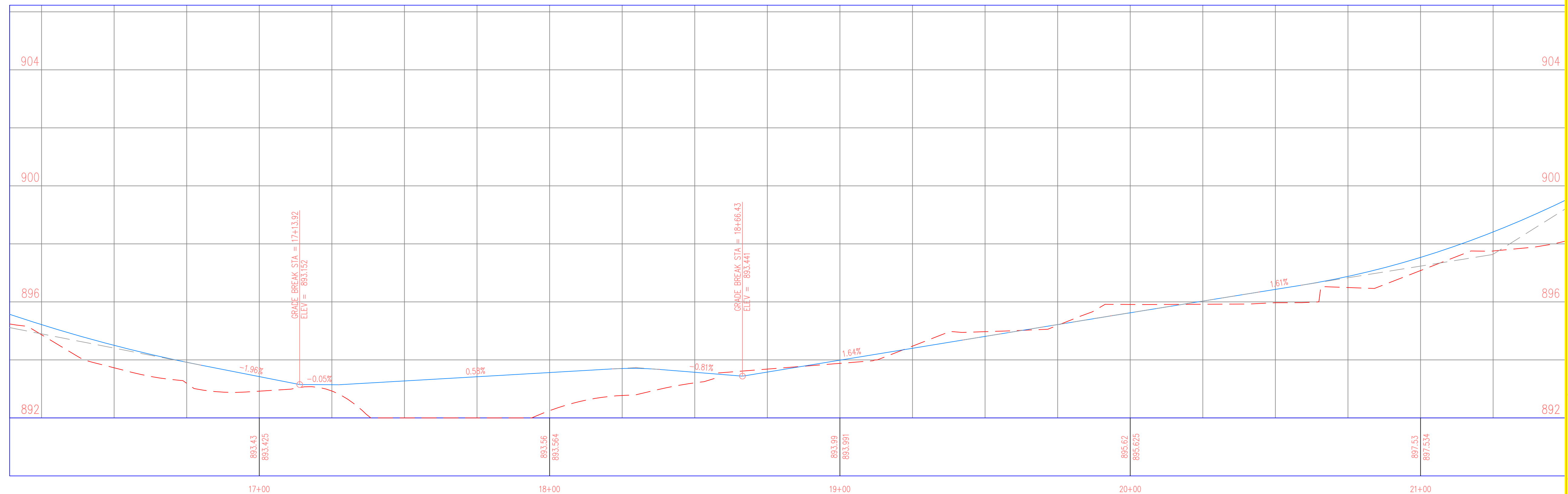
REGIONAL TRAIL
 SCOTCH GROVE, IA 52310

SHEET NAME
 38TH STREET
 PLAN & PROFILE

SHEET NO.
13



38TH PROFILE



PROJECT: CEE: 4850
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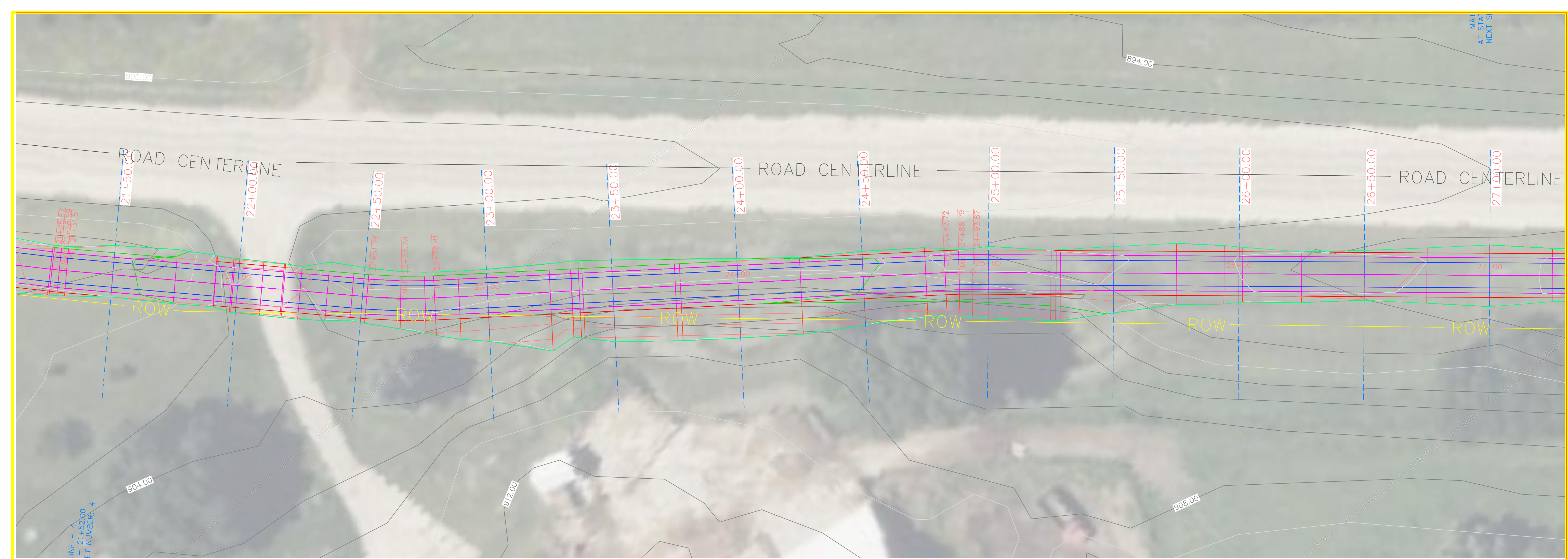


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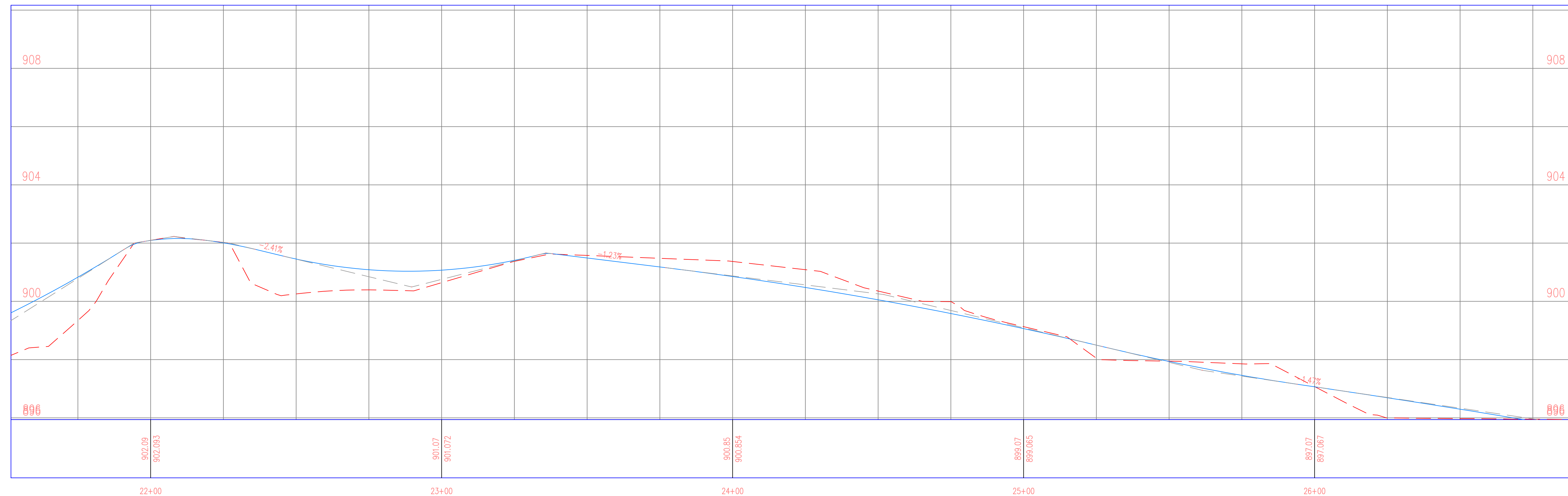
REGIONAL TRAIL
 SCOTCH GROVE, IA 52310

SHEET NAME
 38TH STREET
 PLAN & PROFILE

SHEET NO.
14



38TH PROFILE



PROJECT: CEE: 4850
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REGIONAL TRAIL
 SCOTCH GROVE, IA 52310

SHEET NAME
 38TH STREET
 PLAN & PROFILE

SHEET NO.
15

MATCH
AT STATION
NEXT SHEET

PROJECT: CEE: 4850
DATE: 5/3/24
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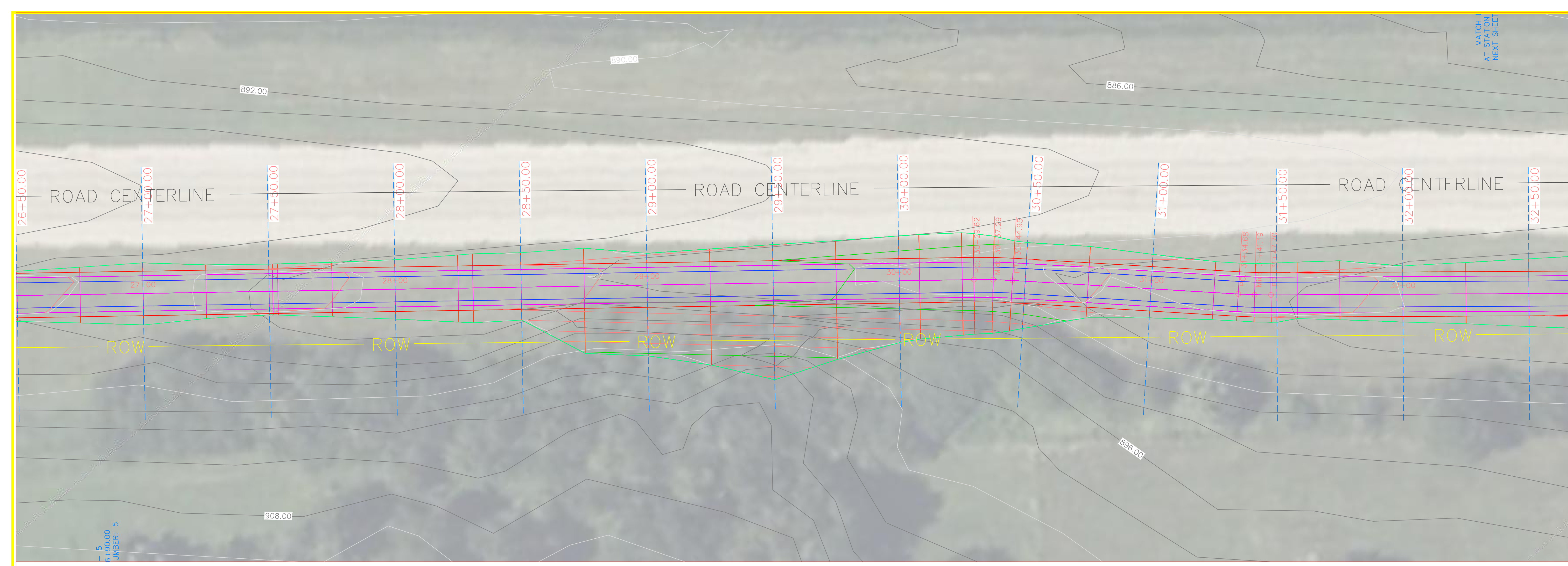


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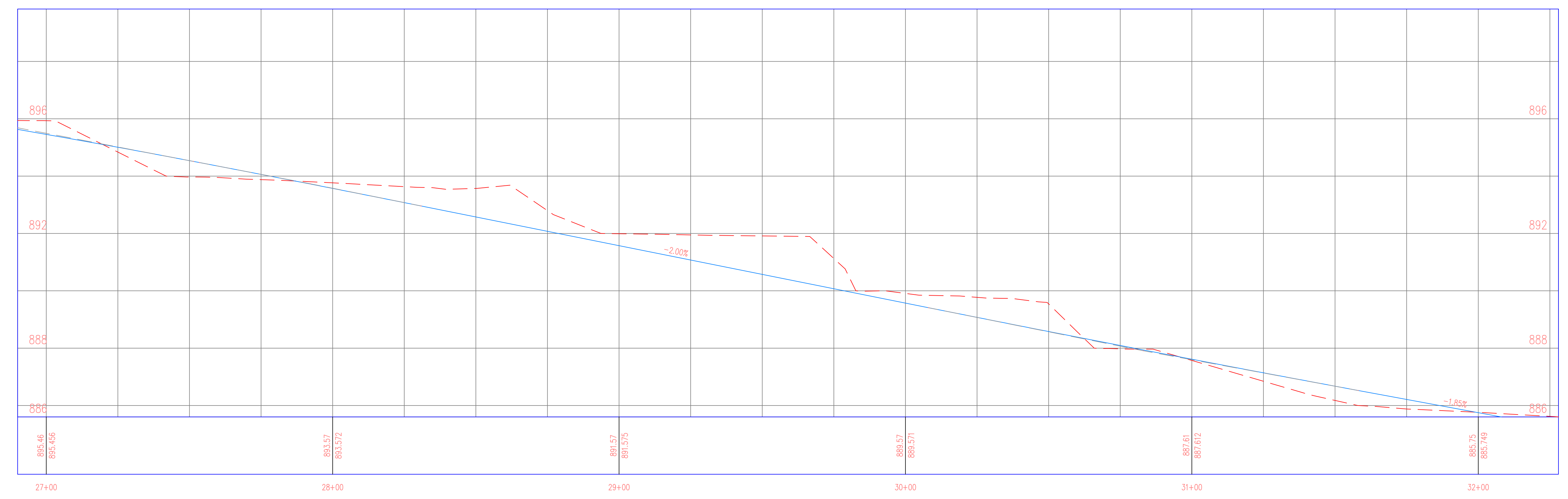
REGIONAL TRAIL
SCOTCH GROVE, IA 52310

SHEET NAME
38TH STREET
PLAN & PROFILE

SHEET NO.
16

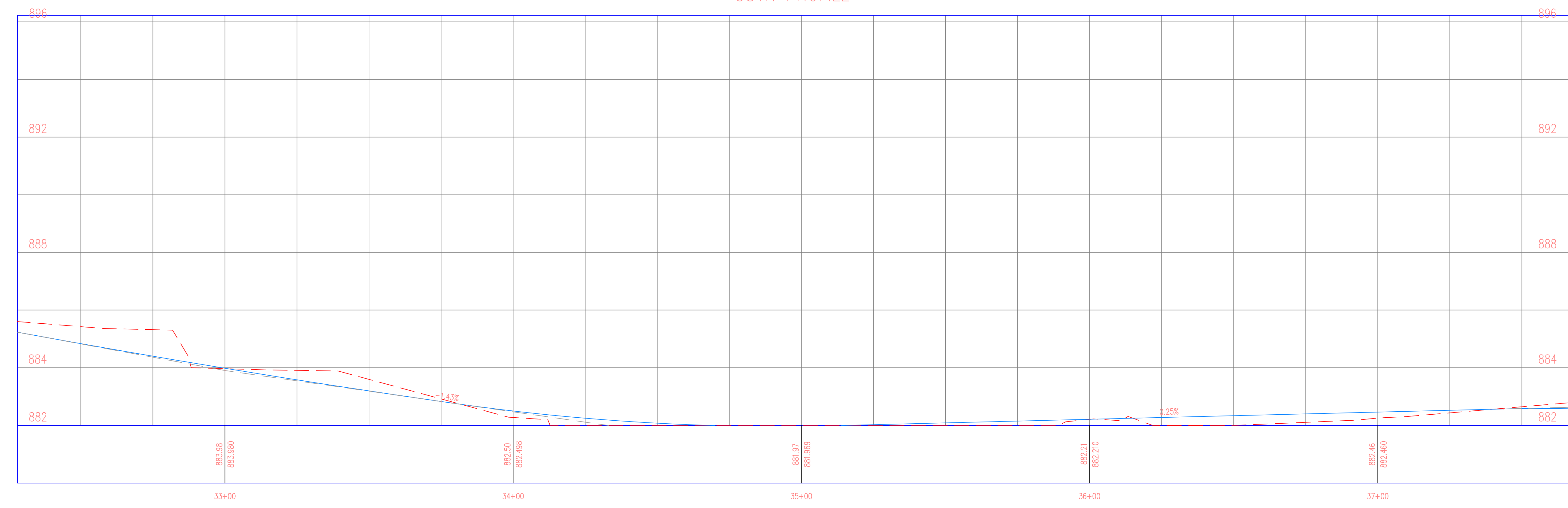


38TH PROFILE





38TH PROFILE



PROJECT: CEE: 4850
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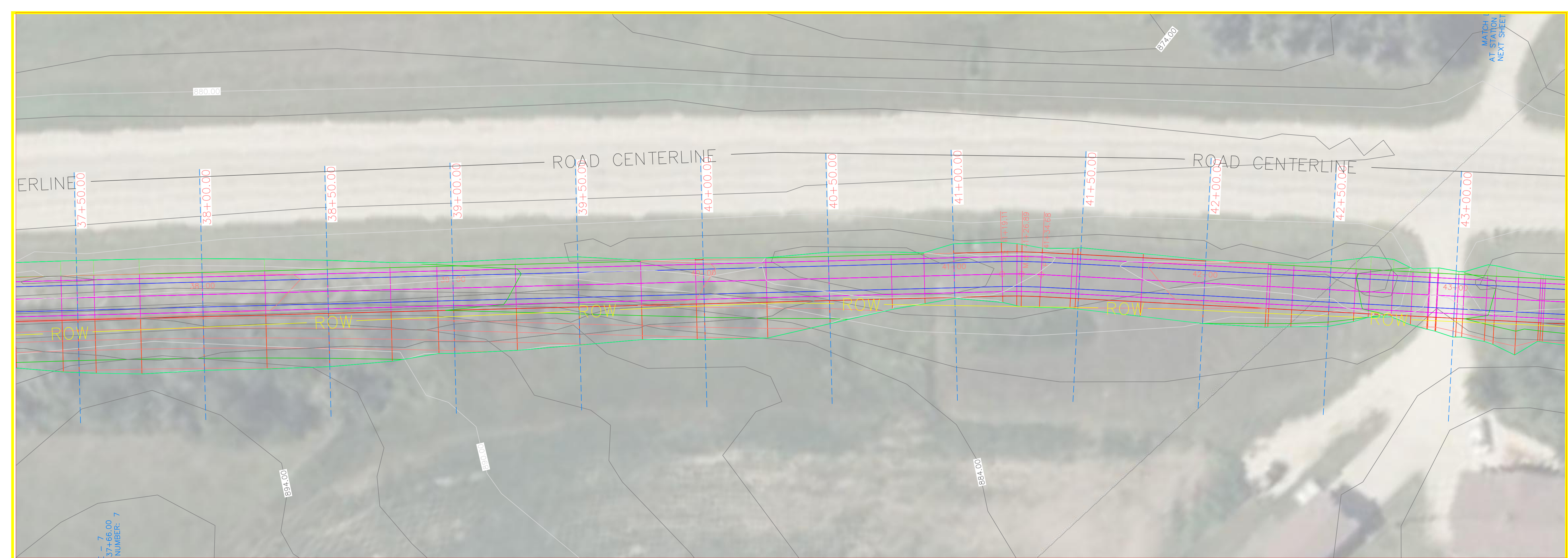


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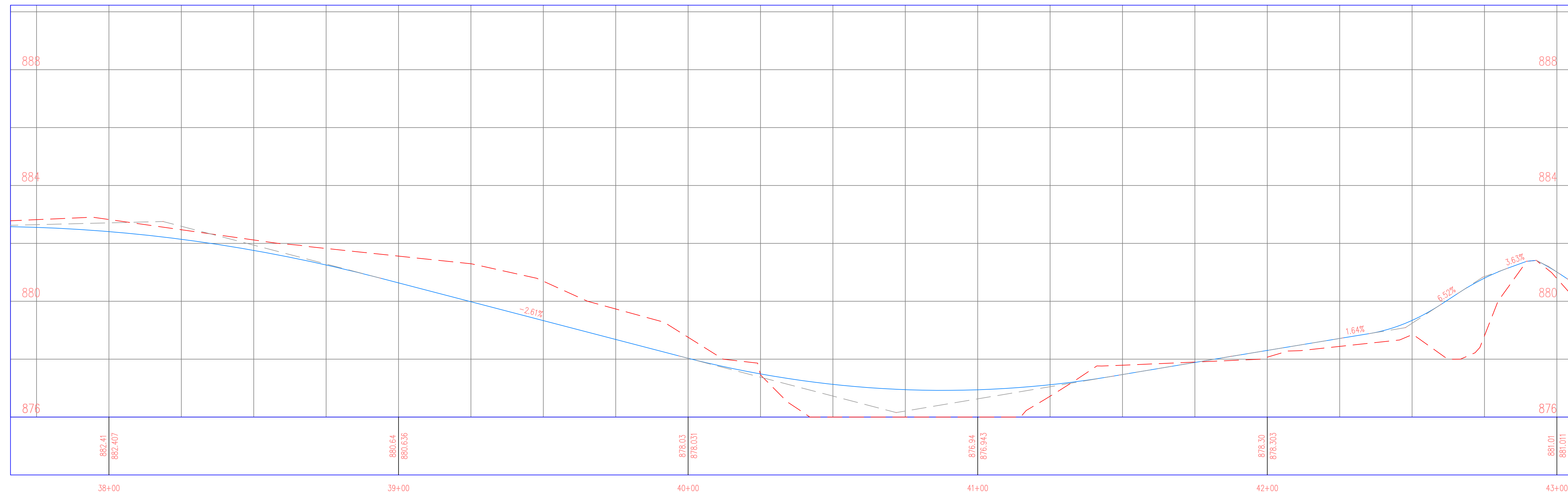
REGIONAL TRAIL
 SCOTCH GROVE, IA 52310

SHEET NAME
 38TH STREET
 PLAN & PROFILE

SHEET NO.
17



38TH PROFILE



PROJECT: CEE: 4850
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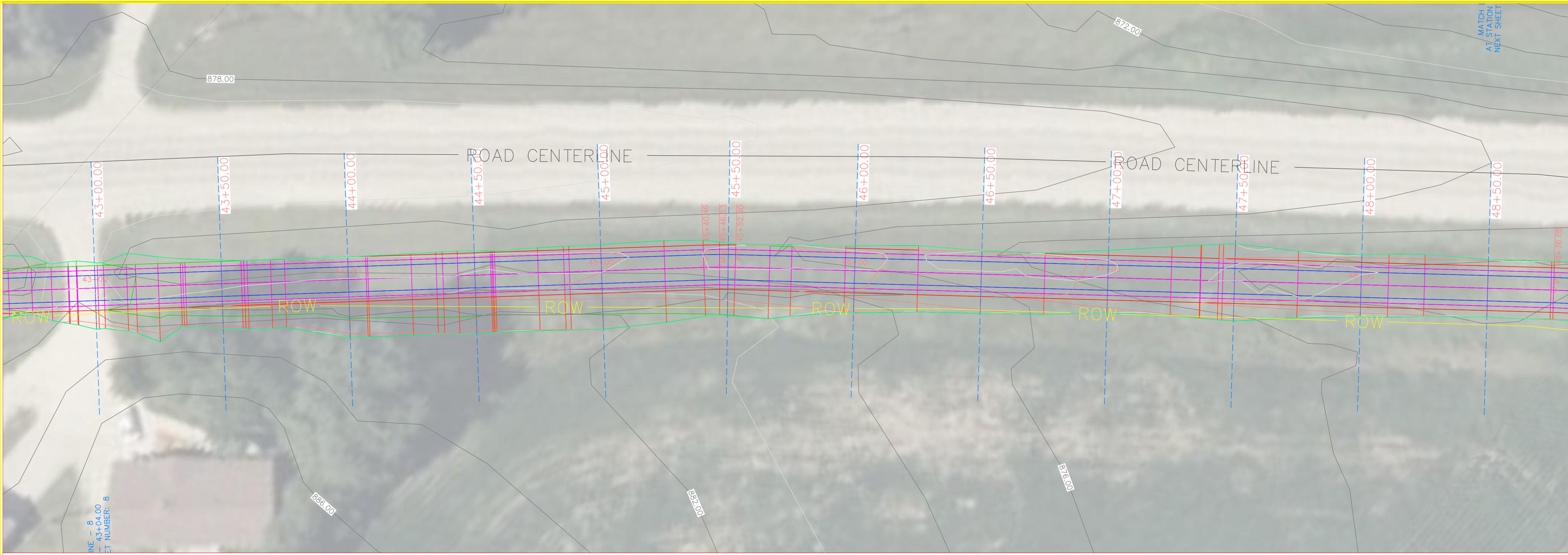


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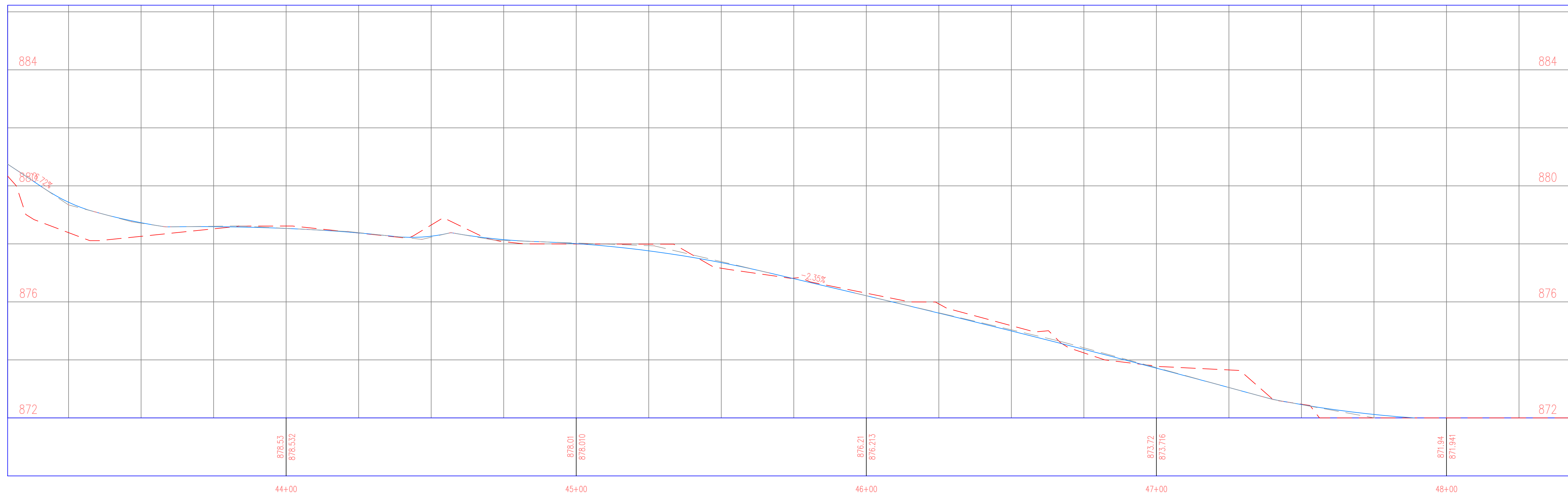
REGIONAL TRAIL
 SCOTCH GROVE, IA 52310

SHEET NAME
 38TH STREET
 PLAN & PROFILE

SHEET NO.
18



38TH PROFILE



PROJECT: CEE: 4850
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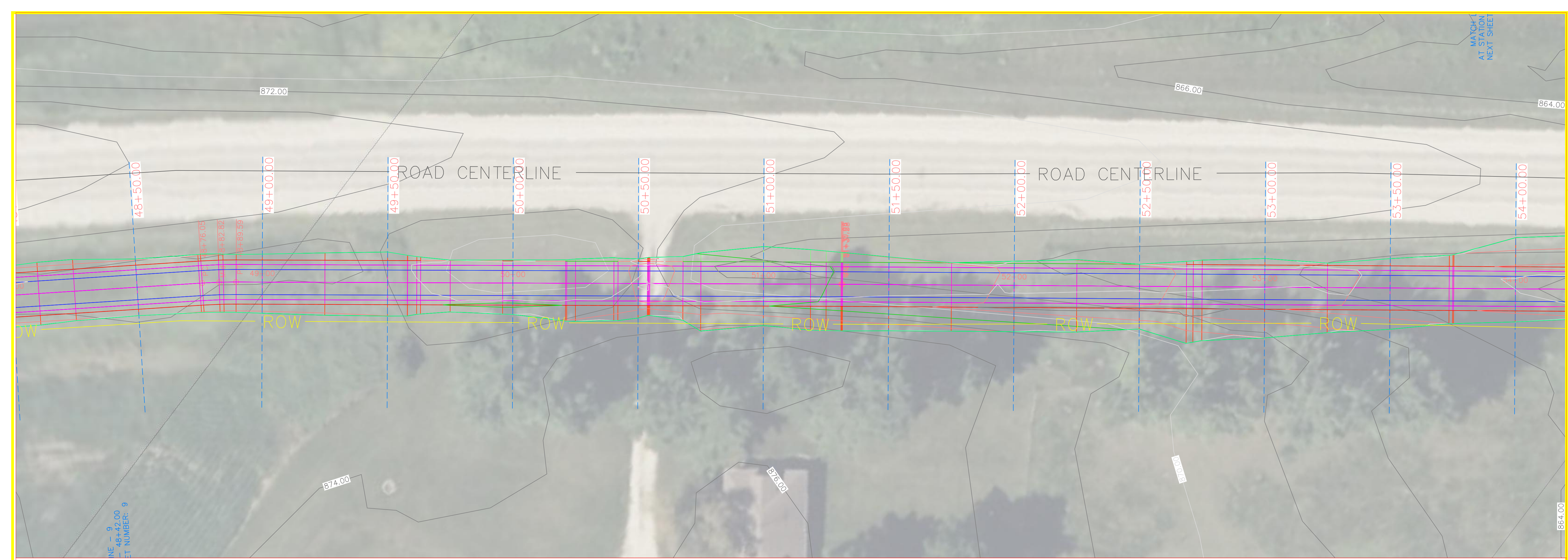


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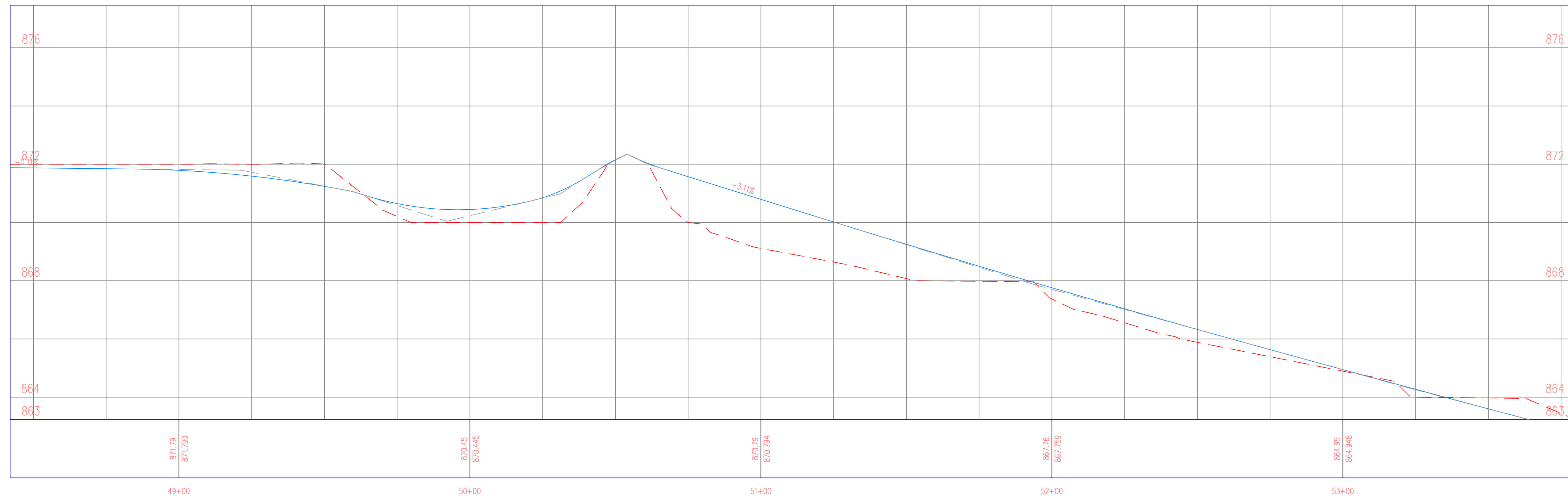
REGIONAL TRAIL
 SCOTCH GROVE, IA 52310

SHEET NAME
 38TH STREET
 PLAN & PROFILE

SHEET NO.
19



38TH PROFILE



PROJECT: CEE: 4850
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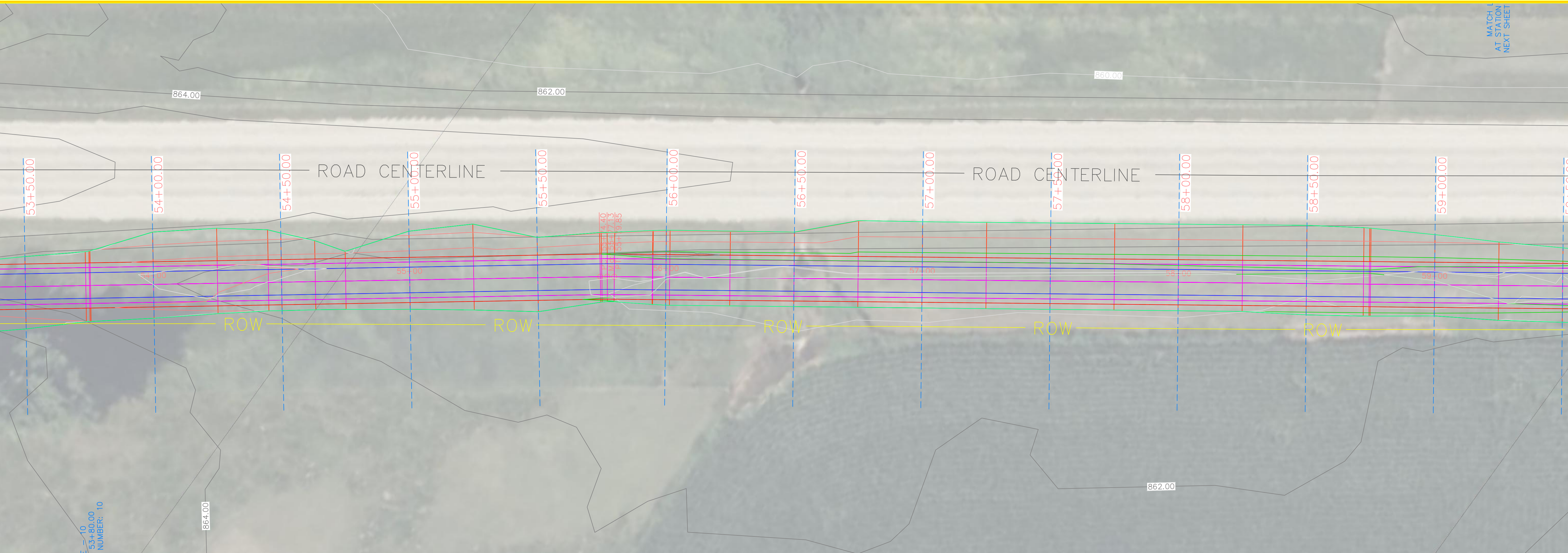
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REGIONAL TRAIL
 SCOTCH GROVE, IA 52310

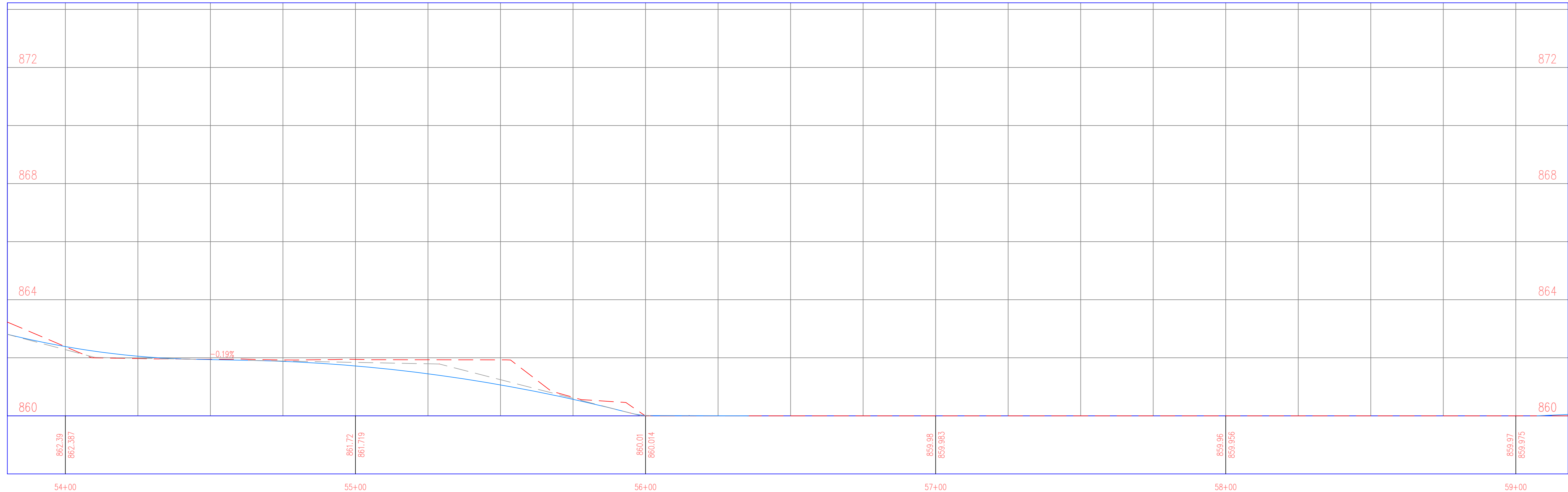
SHEET NAME
 38TH STREET
 PLAN & PROFILE

SHEET NO.
20

MATCH 1
AT STATION
NEXT SHEET



38TH PROFILE



PROJECT: CEE: 4850
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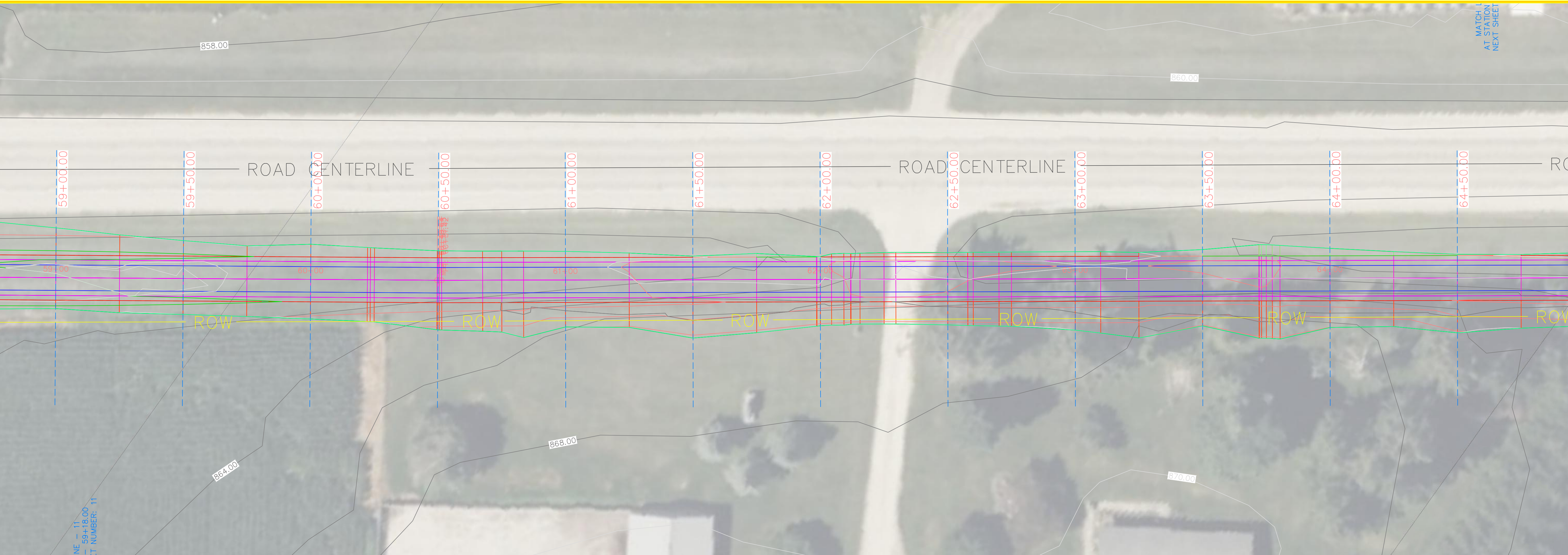
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 SCOTCH GROVE, IA 52310

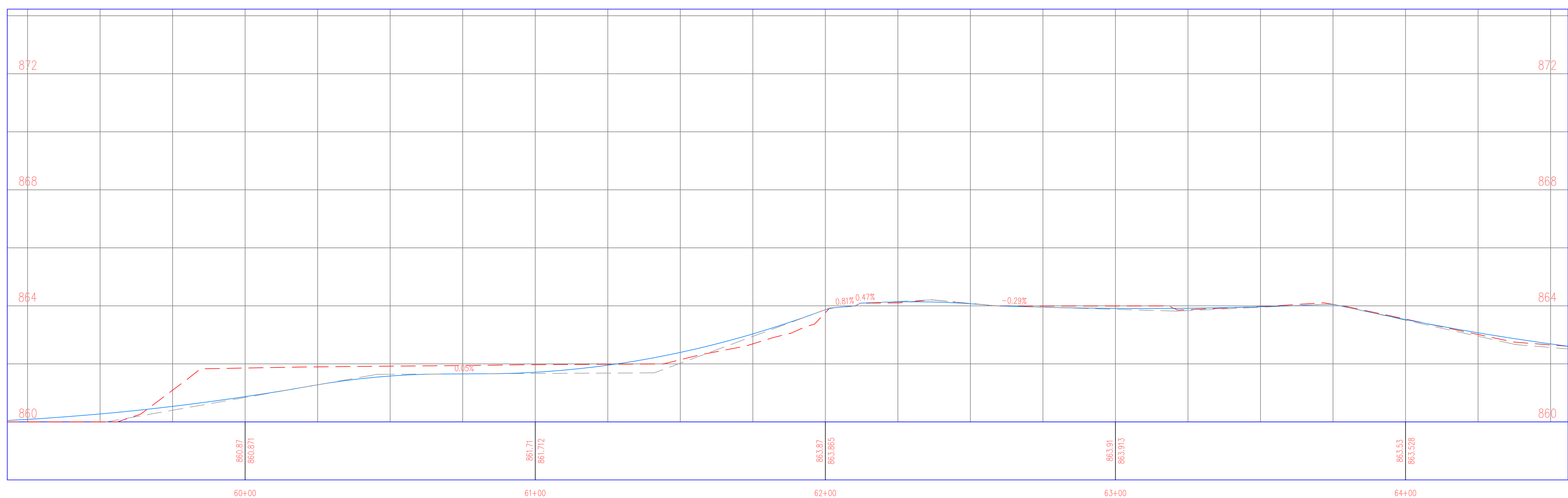
SHEET NAME
 38TH STREET
 PLAN & PROFILE

SHEET NO.
21

MATCH 1
AT STATION
NEXT SHEET



38TH PROFILE



PROJECT: CEE: 4850
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 IOWA CITY, IOWA 52242
 PHONE: 319.335.5647
 FAX: 319.335.5660
 EMAIL: civil-hawks@iowa.edu

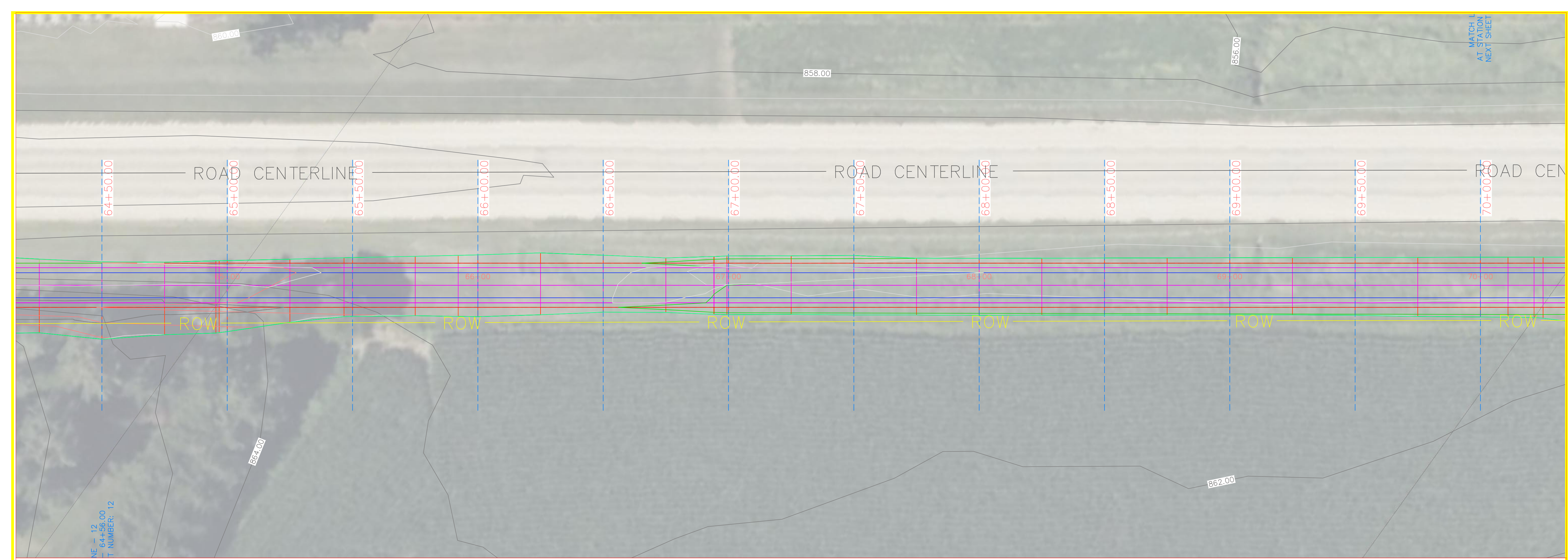


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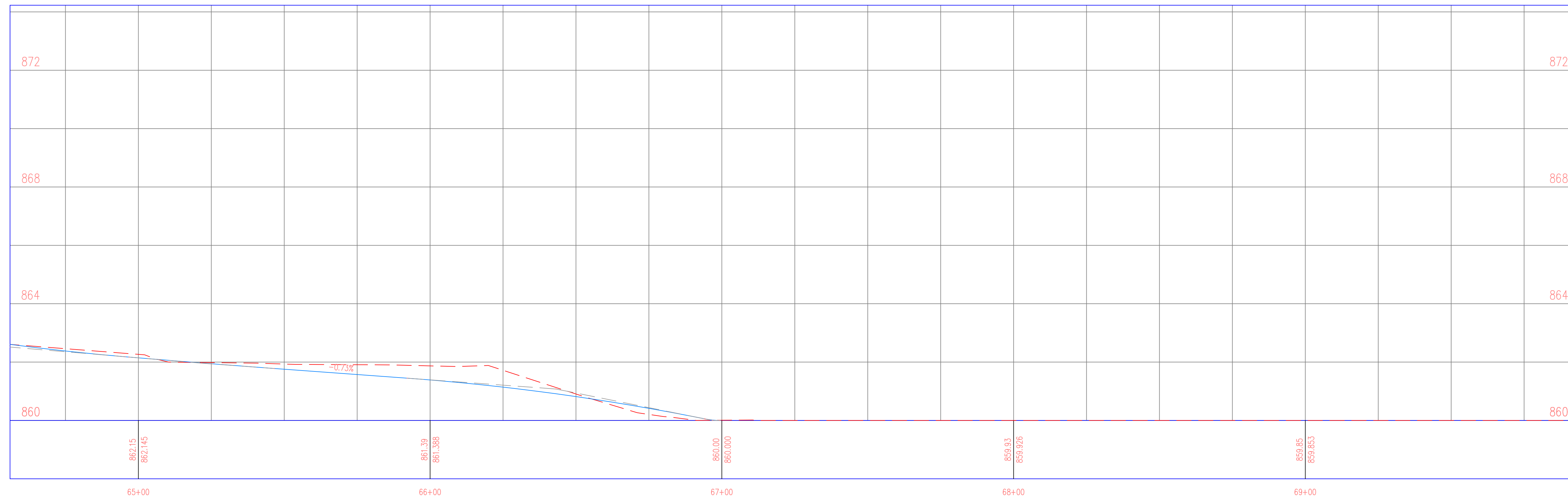
REGIONAL TRAIL
 SCOTCH GROVE, IA 52310

SHEET NAME
 38TH STREET
 PLAN & PROFILE

SHEET NO.
22



38TH PROFILE



PROJECT: CEE: 4850
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REGIONAL TRAIL
 SCOTCH GROVE, IA 52310

SHEET NAME
 38TH STREET
 PLAN & PROFILE

SHEET NO.
23

MATCH L
AT STATION
NEXT SHEET

PROJECT: CEE: 4850
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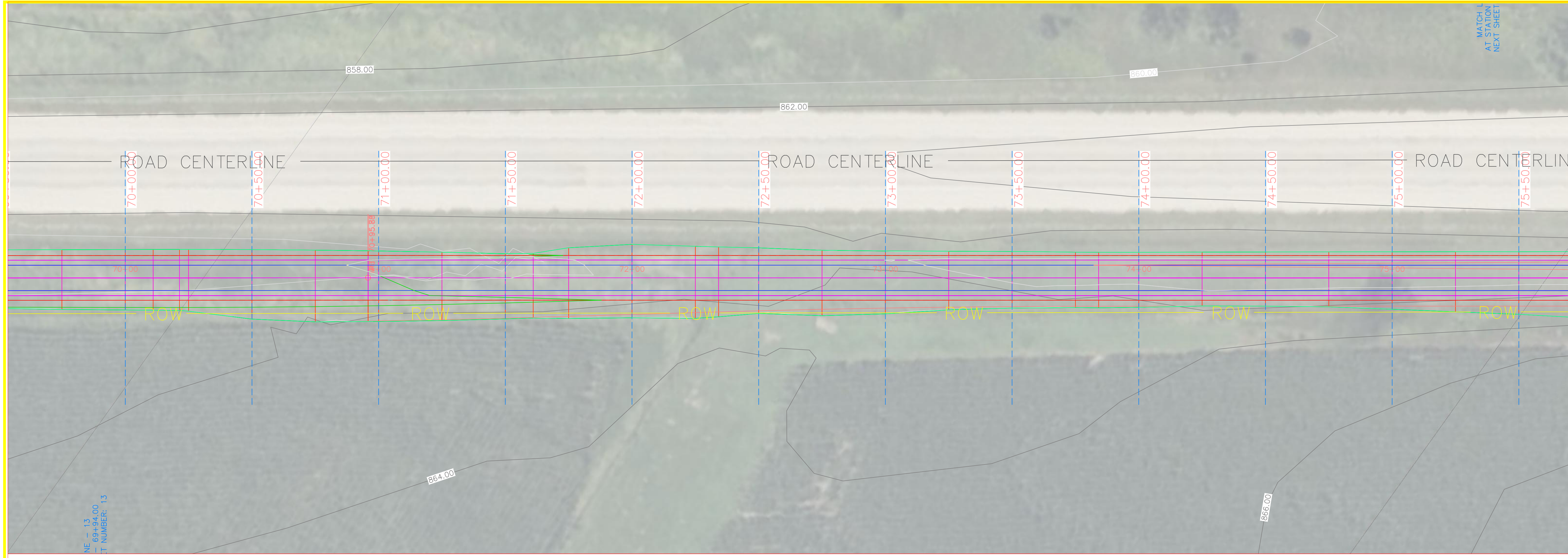


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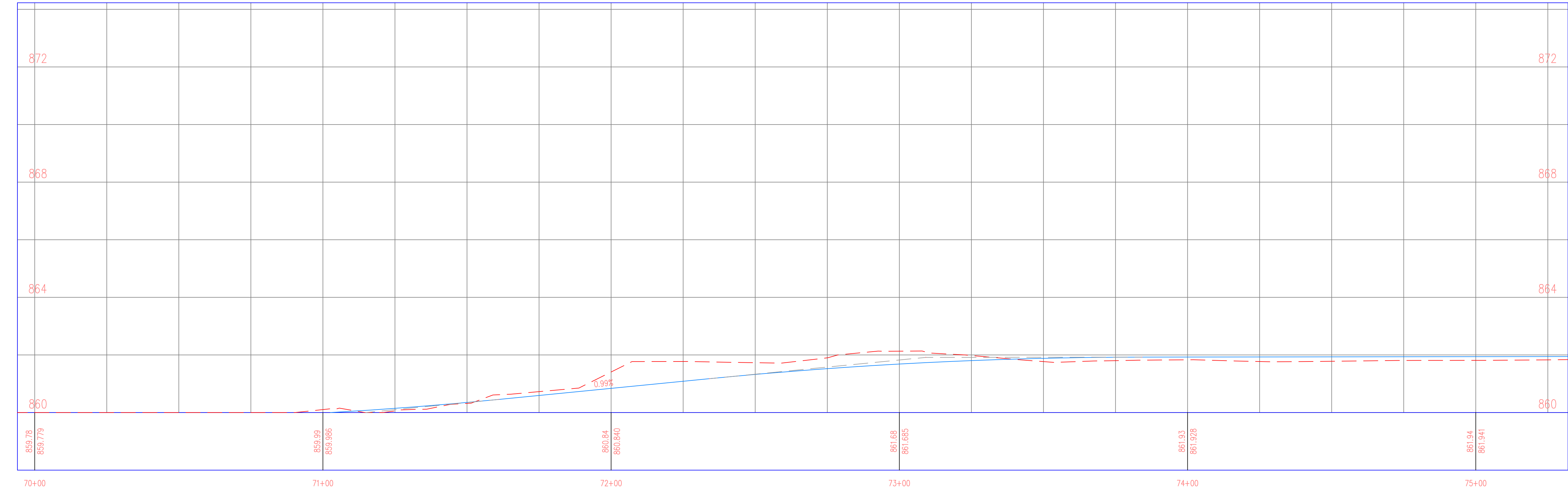
REGIONAL TRAIL
SCOTCH GROVE, IA 52310

SHEET NAME
38TH STREET
PLAN & PROFILE

SHEET NO.
24

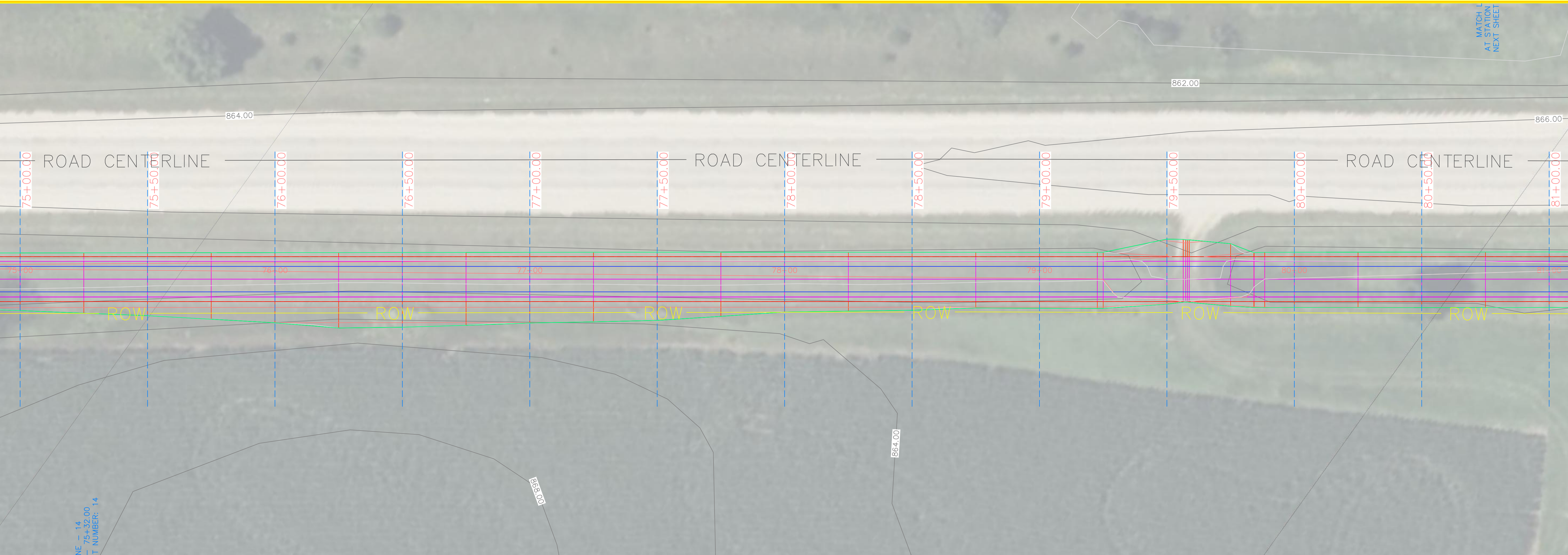


38TH PROFILE



NE - 13
- 69+94.00
T NUMBER: 13

MATCH L
AT STATION
NEXT SHEET



38TH PROFILE



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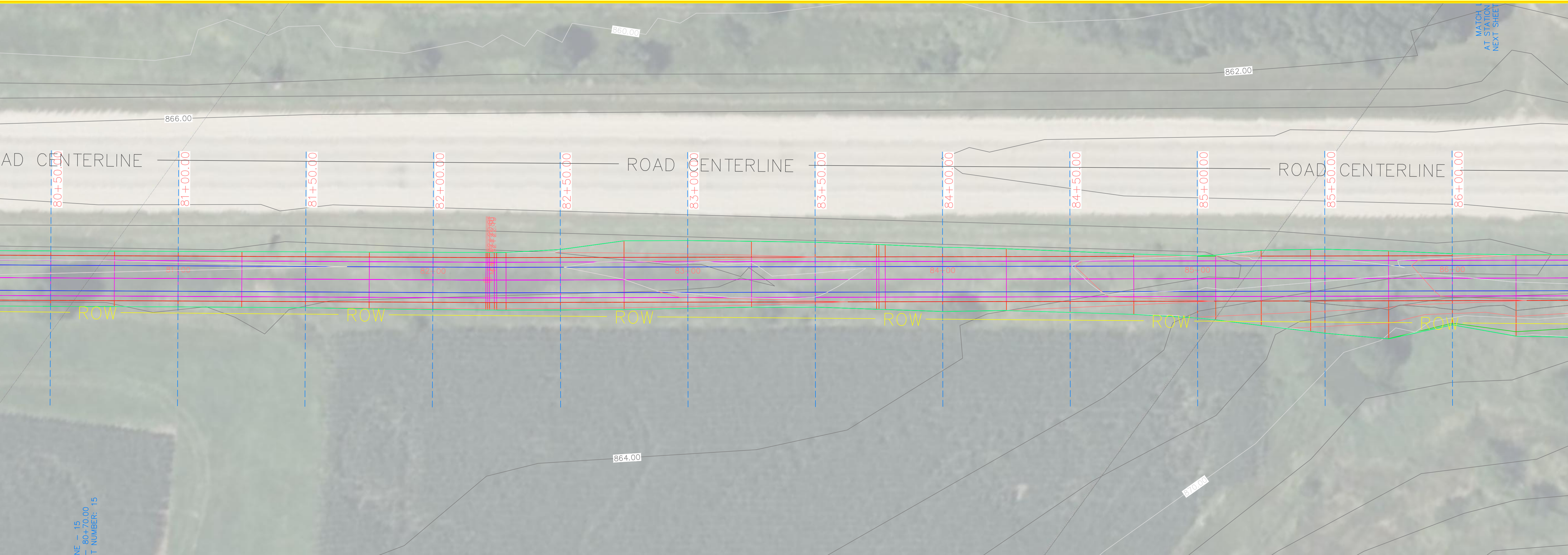


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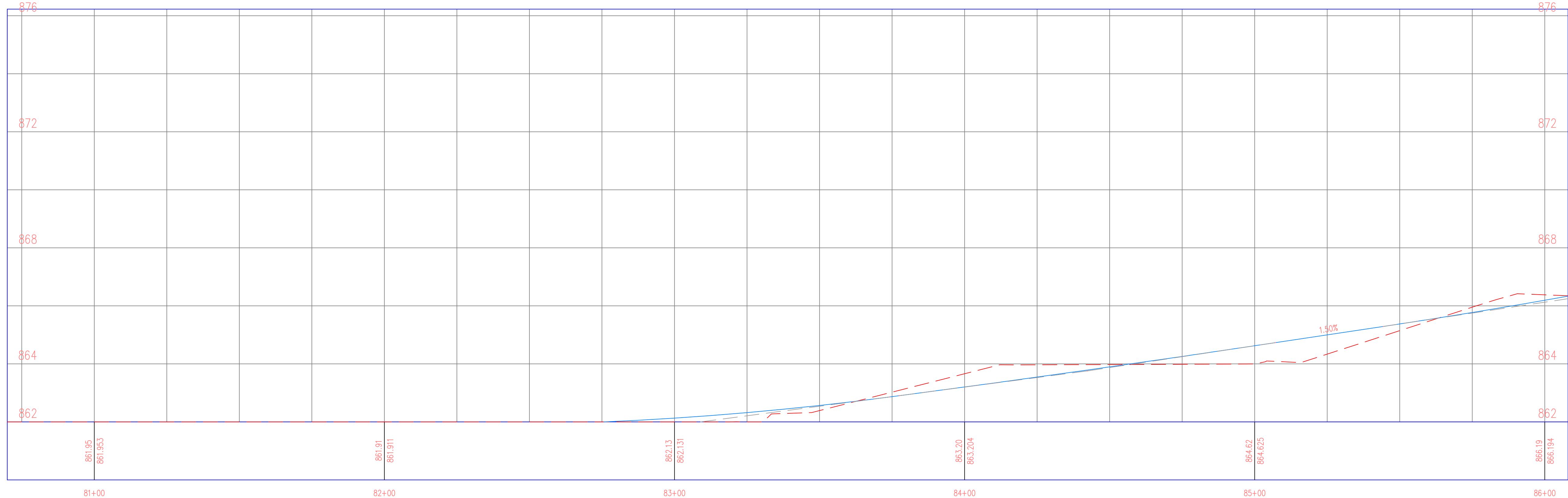
REGIONAL TRAIL
 SCOTCH GROVE, IA 52310

SHEET NAME
 38TH STREET
 PLAN & PROFILE

SHEET NO.
25



38TH PROFILE



PROJECT: CEE: 4850
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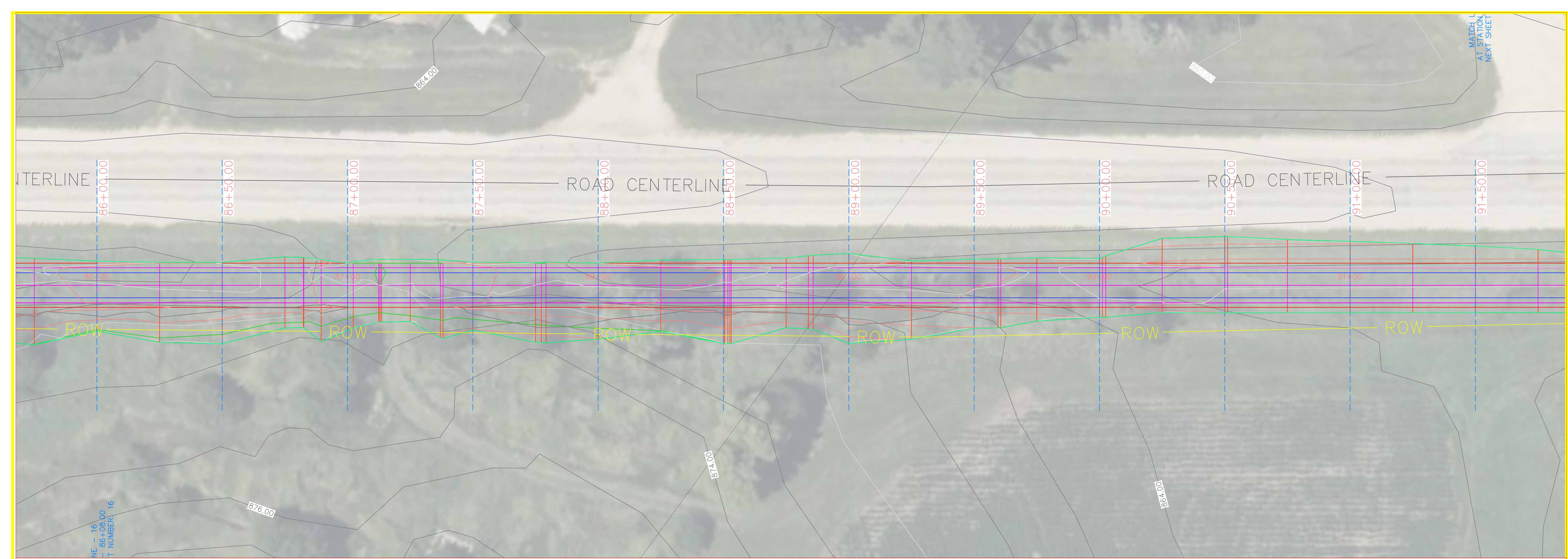


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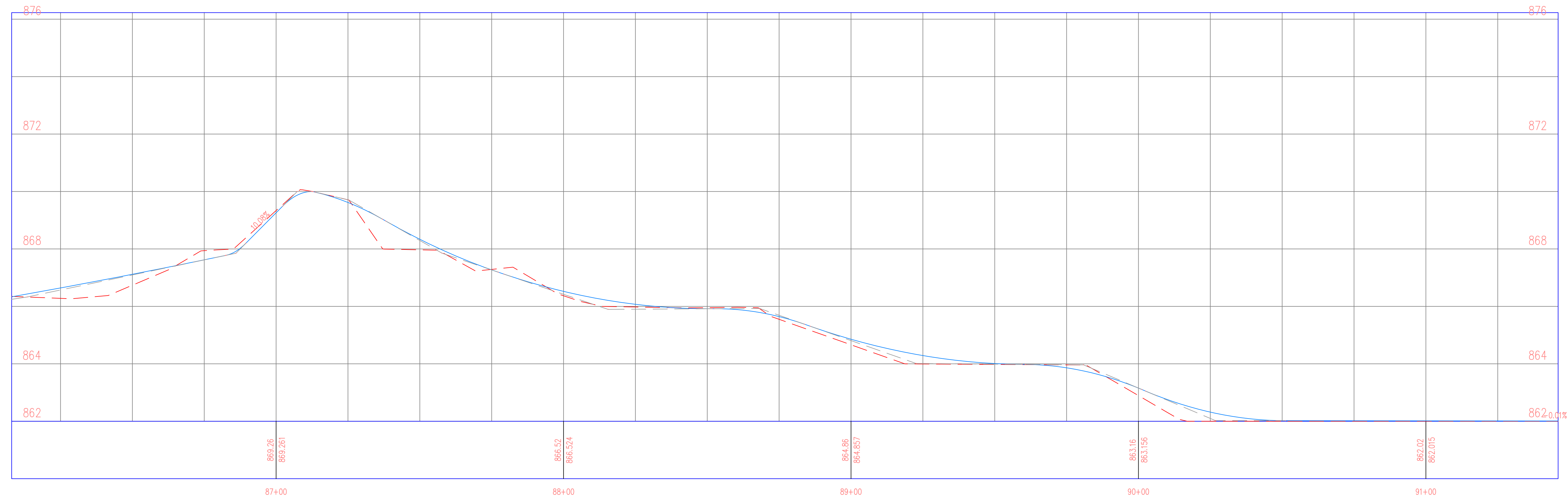
REGIONAL TRAIL
 SCOTCH GROVE, IA 52310

SHEET NAME
 38TH STREET
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SHEET NO.
26



38TH PROFILE



PROJECT: CEE: 4850
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SHEET NAME
 38TH STREET
 PLAN & PROFILE

SHEET NO.
27



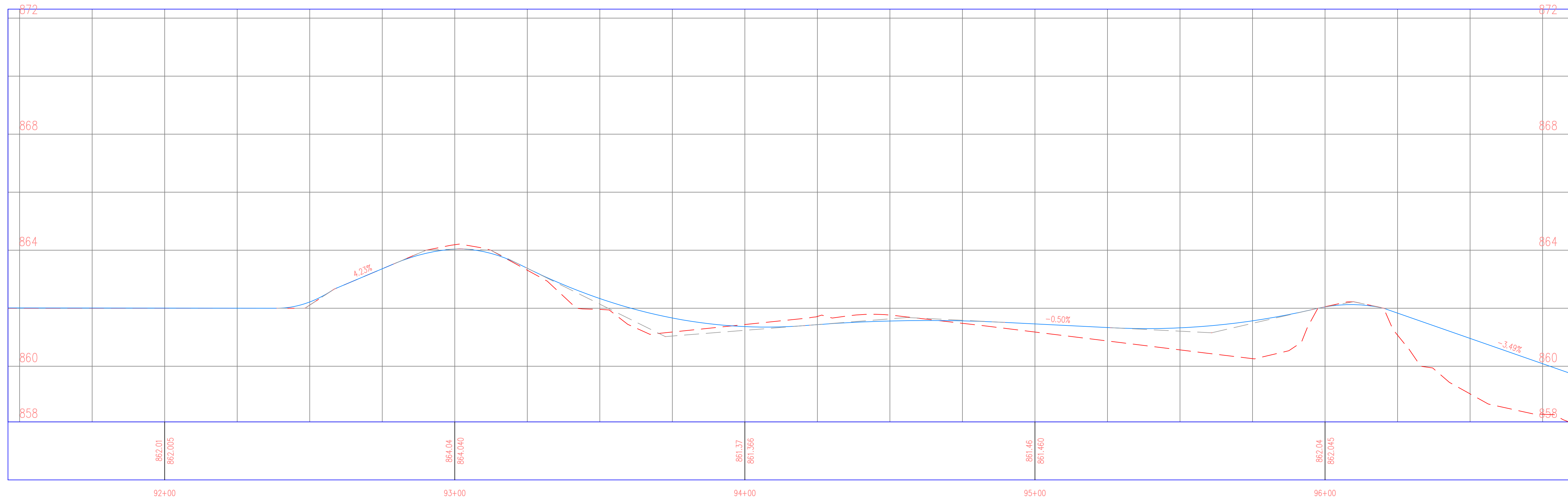
ME - 17
91+46.00
T NUMBER: 17

PROJECT: CEE: 4850
DATE: 5/3/24
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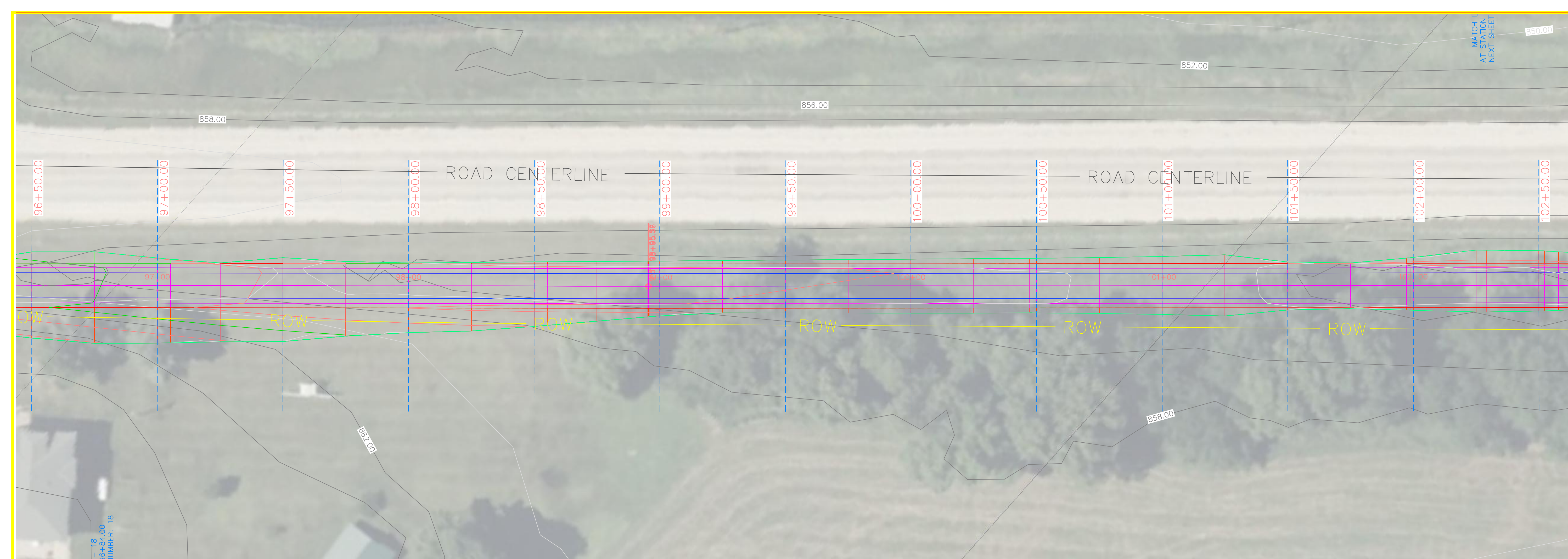


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REGIONAL TRAIL
SCOTCH GROVE, IA 52310

SHEET NAME
38TH STREET
PLAN & PROFILE

SHEET NO.
28

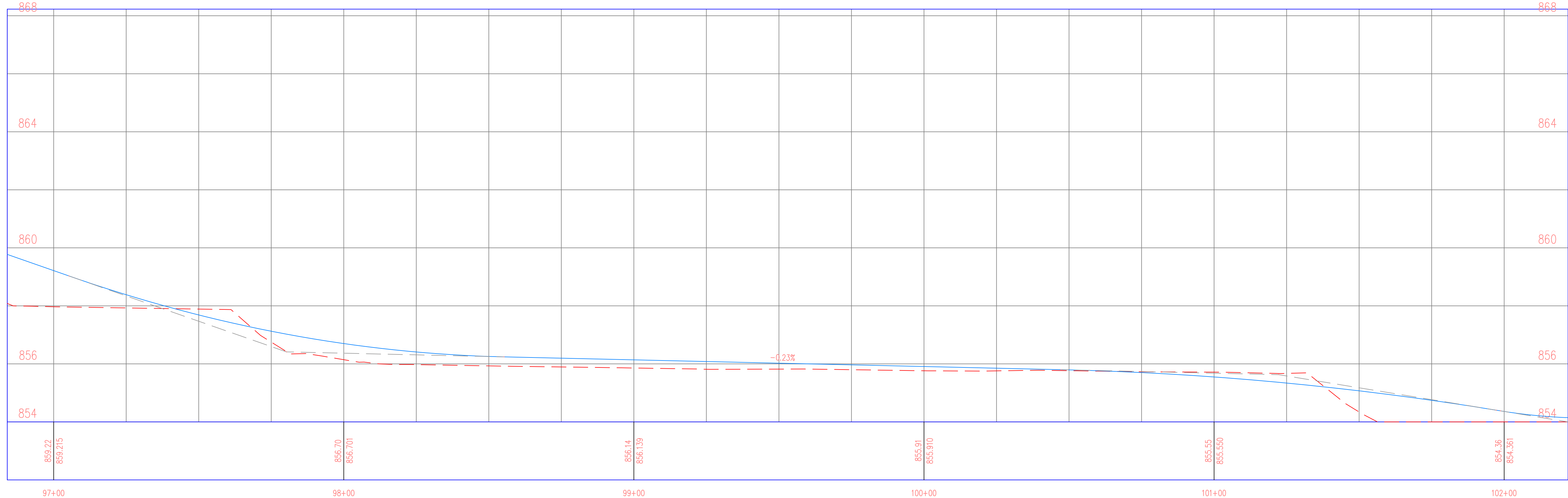


PROJECT: CEE: 4850
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38TH PROFILE

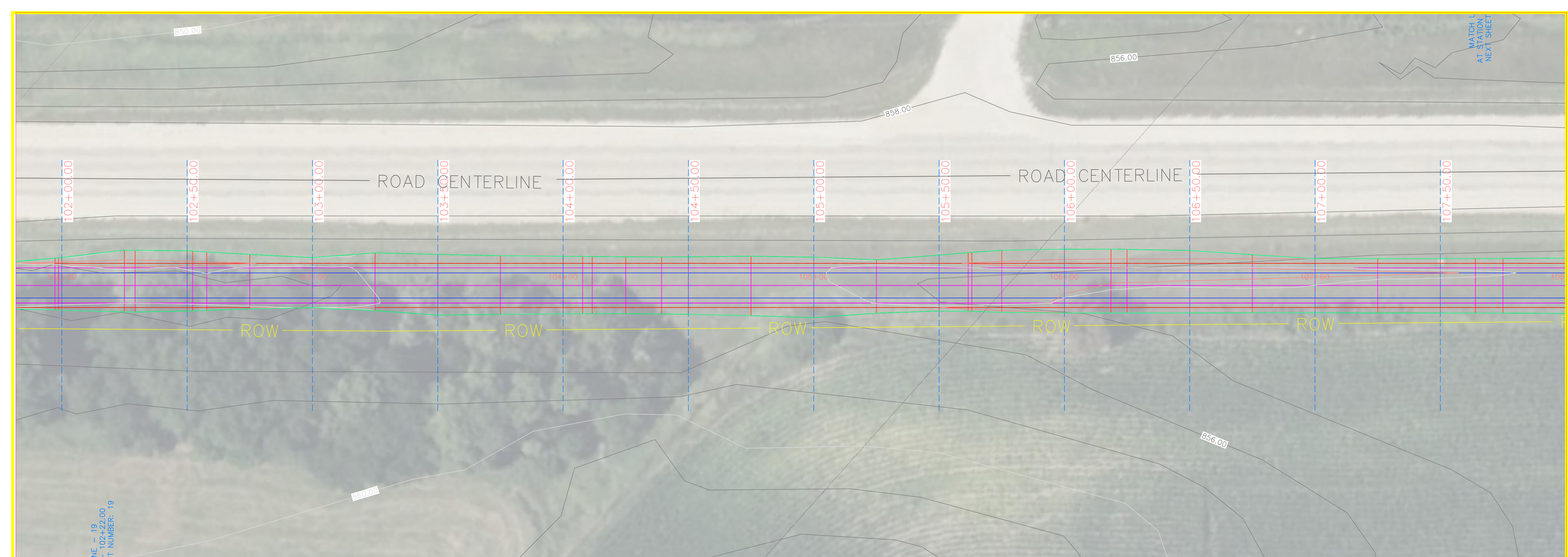


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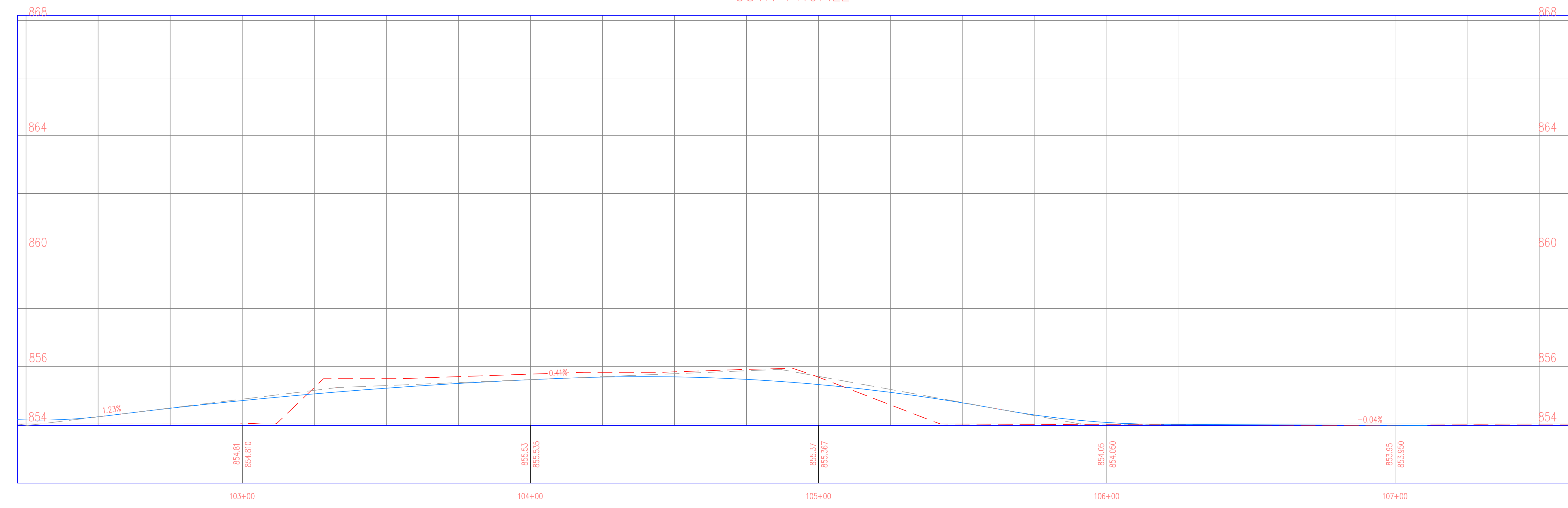
REGIONAL TRAIL
 SCOTCH GROVE, IA 52310

SHEET NAME
 38TH STREET
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SHEET NO.
29



38TH PROFILE



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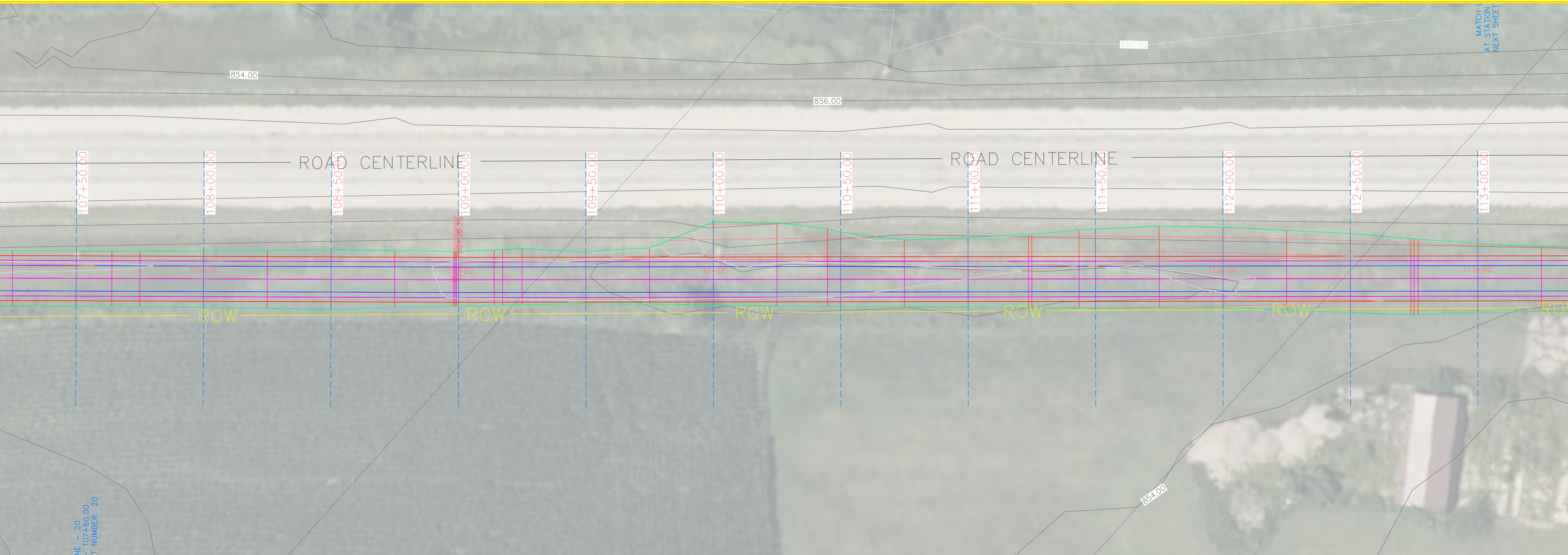
SHEET NAME
 38TH STREET
 PLAN & PROFILE

SHEET NO.
30

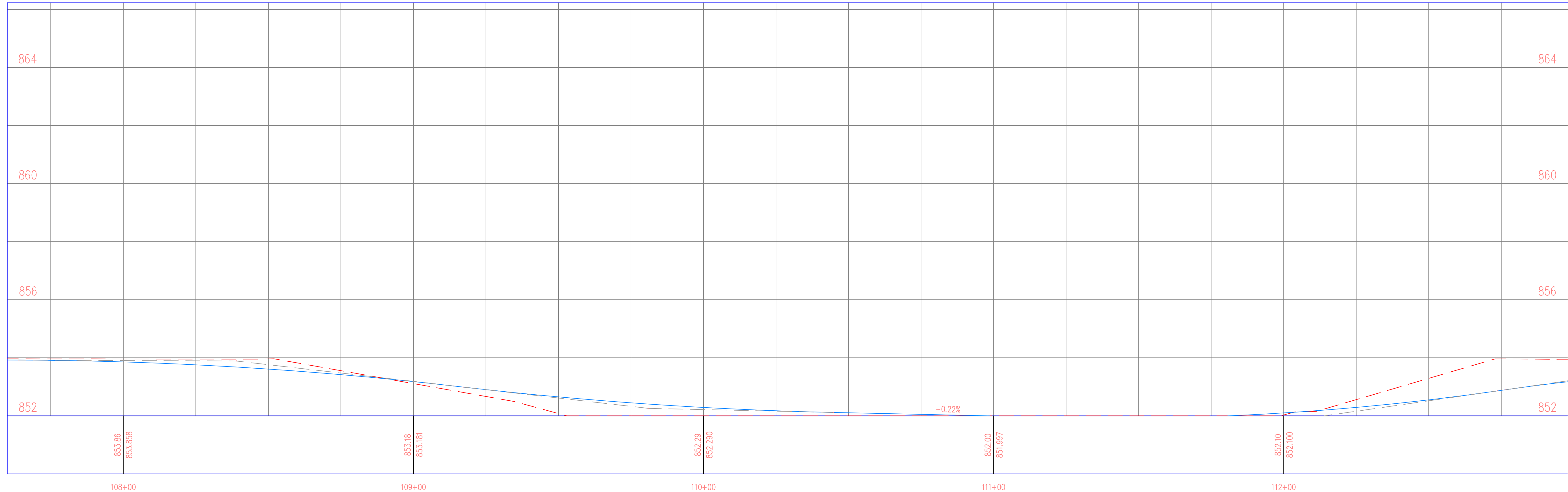
WATCH L
 AT STATION
 NEXT SHEET

NE - 19
 - 102+22.00
 T NUMBER: 19

MATCH 1
AT STATION
NEXT SHEET



38TH PROFILE



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SHEET NAME
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SHEET NO.
31

MATCH L
AT STATION
NEXT SHEET

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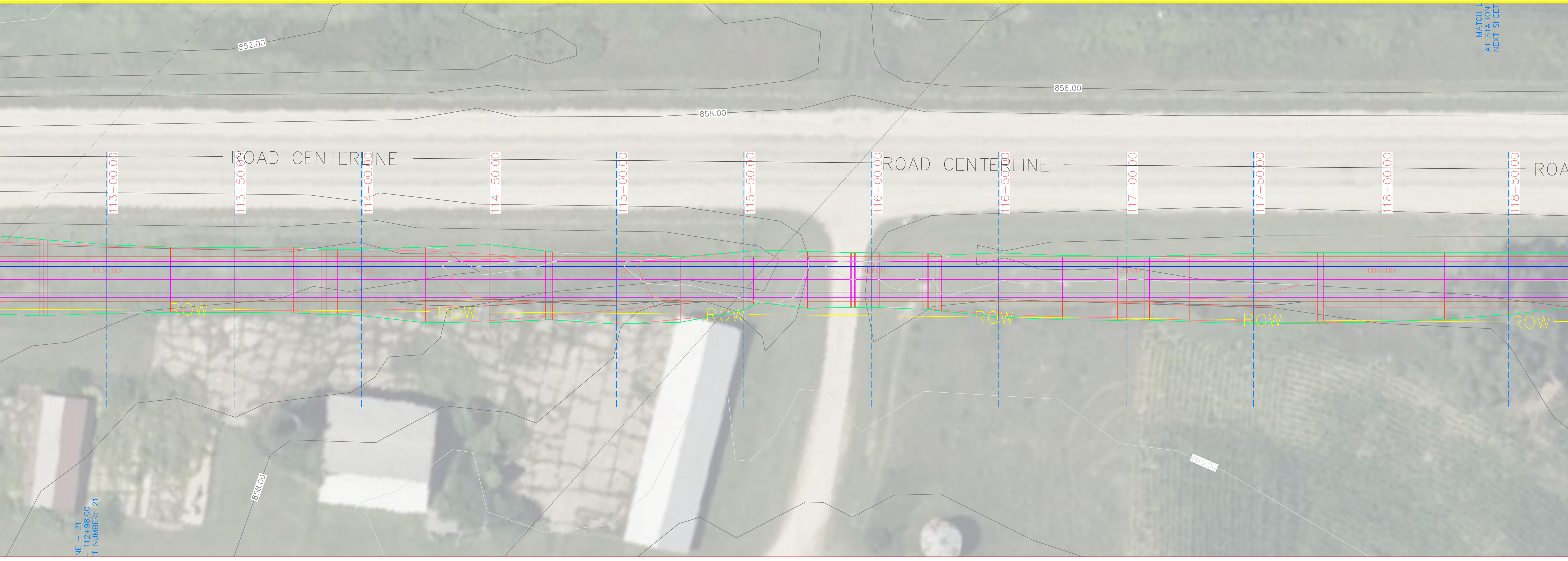


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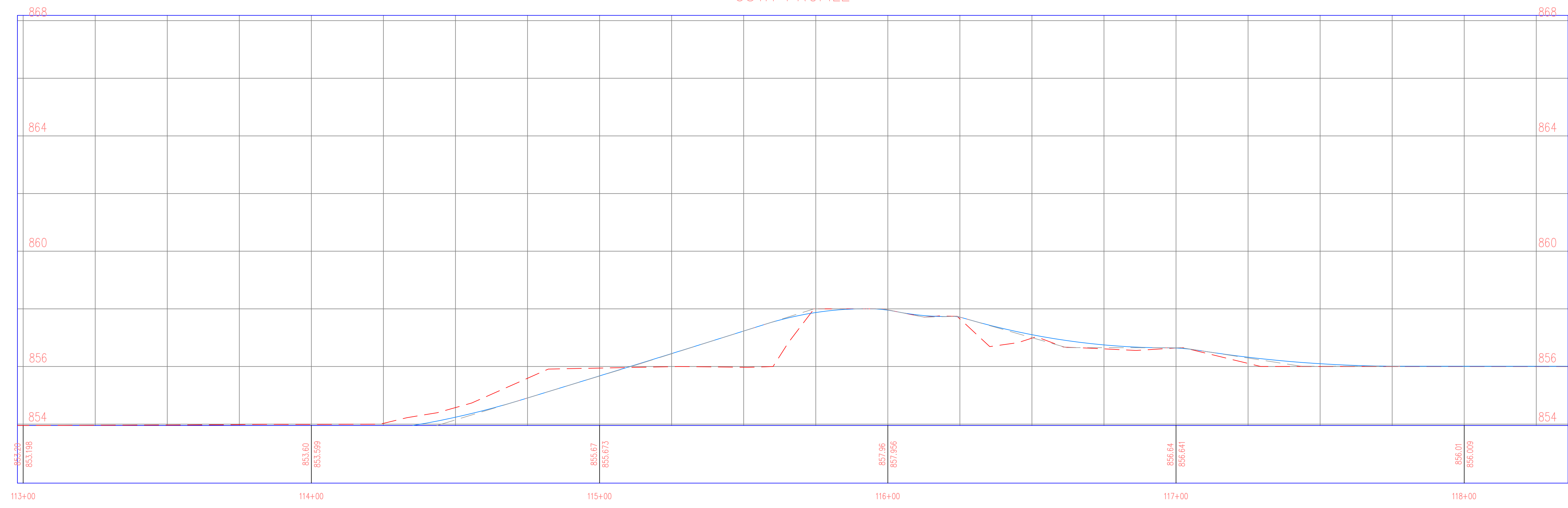
REGIONAL TRAIL
SCOTCH GROVE, IA 52310

SHEET NAME
38TH STREET
PLAN & PROFILE

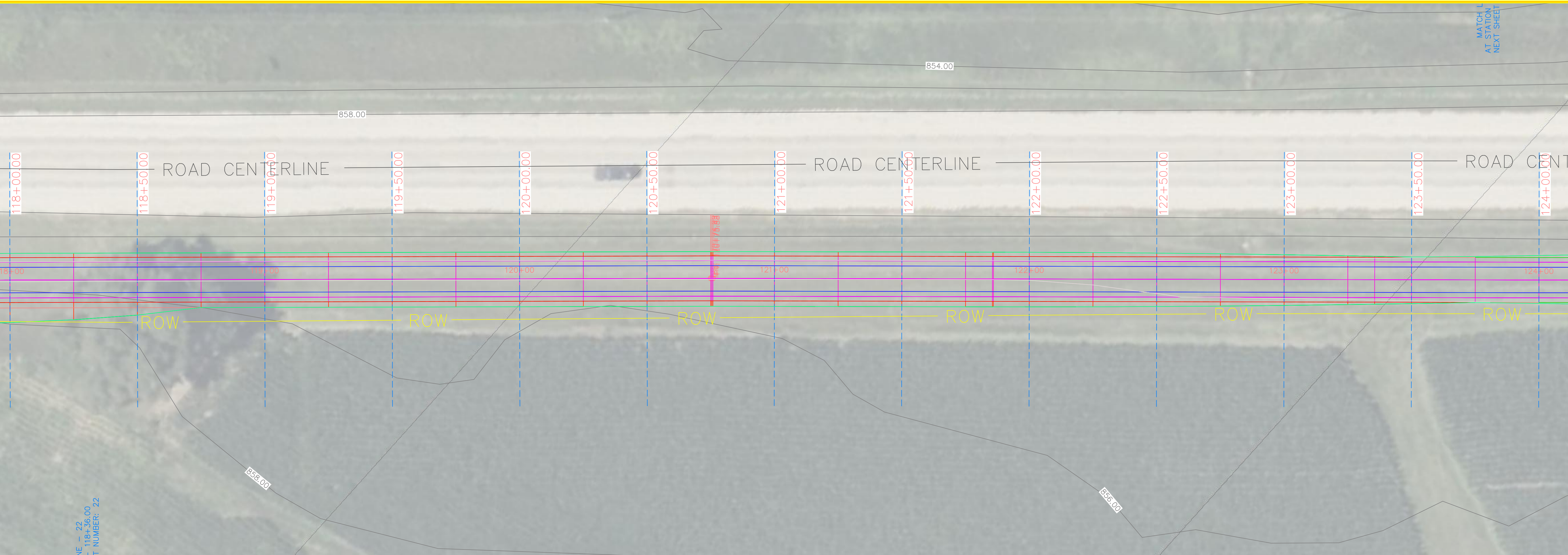
SHEET NO.
32



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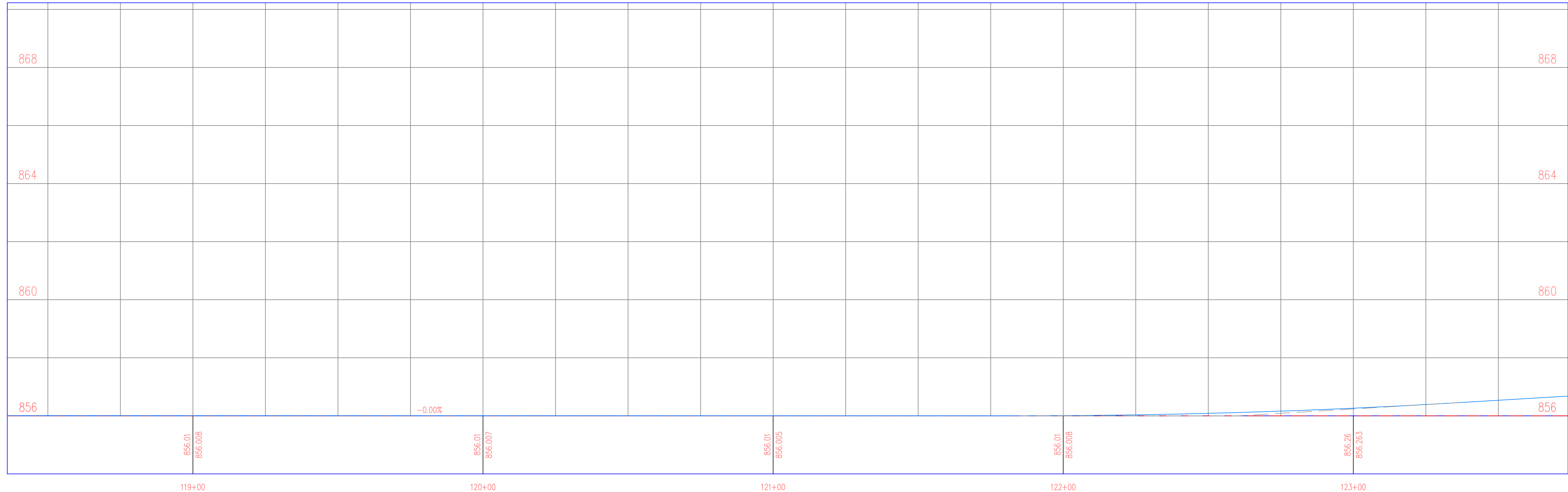


MATCH L
AT STATION
NEXT SHEET



NE - 22
118+36.00
T NUMBER: 22

38TH PROFILE



PROJECT: CEE: 4850
DATE: 5/3/24
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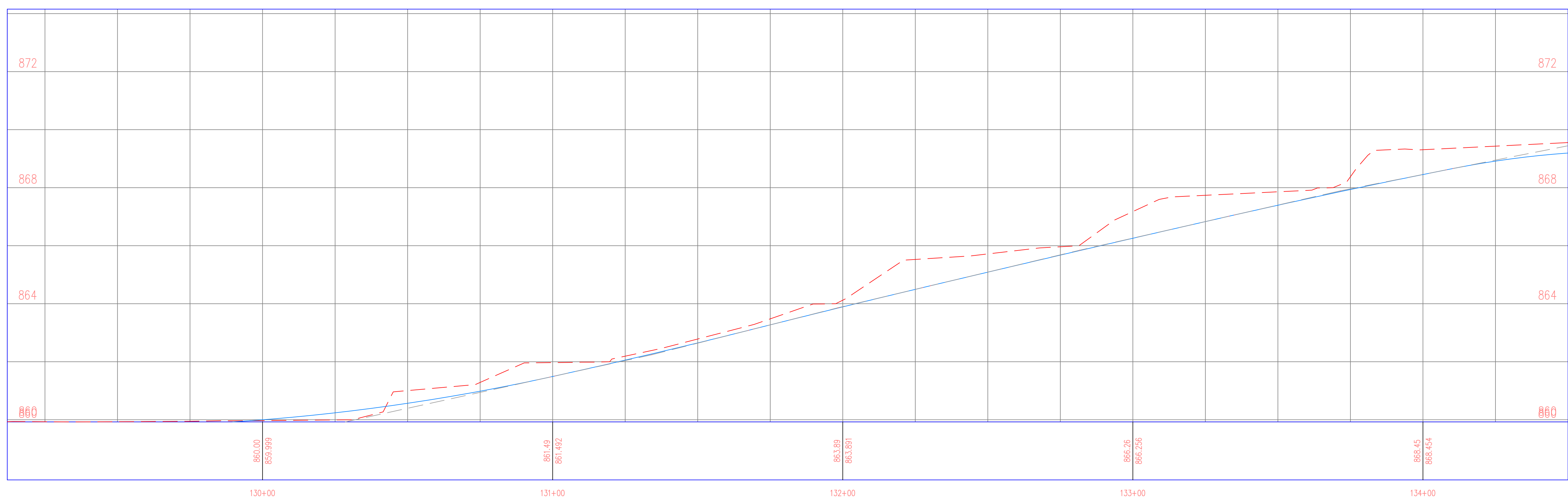
REGIONAL TRAIL
SCOTCH GROVE, IA 52310

SHEET NAME
38TH STREET
PLAN & PROFILE

SHEET NO.
33



38TH PROFILE



PROJECT: CEE: 4850
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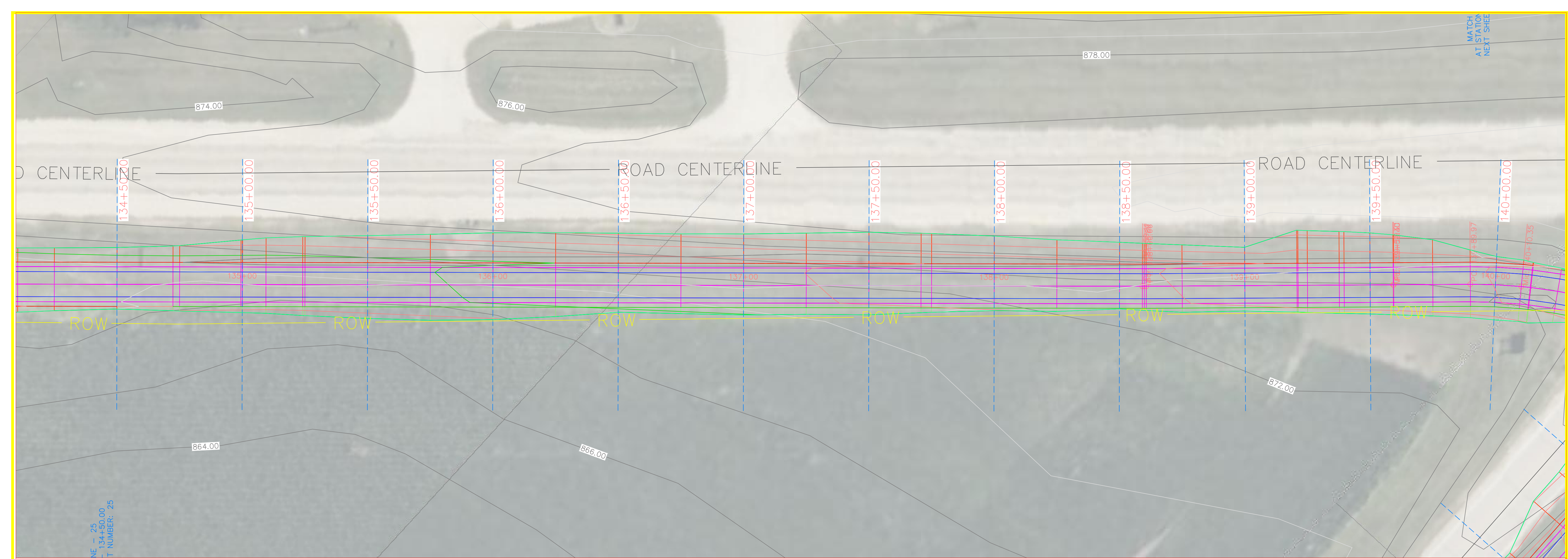
IOWA
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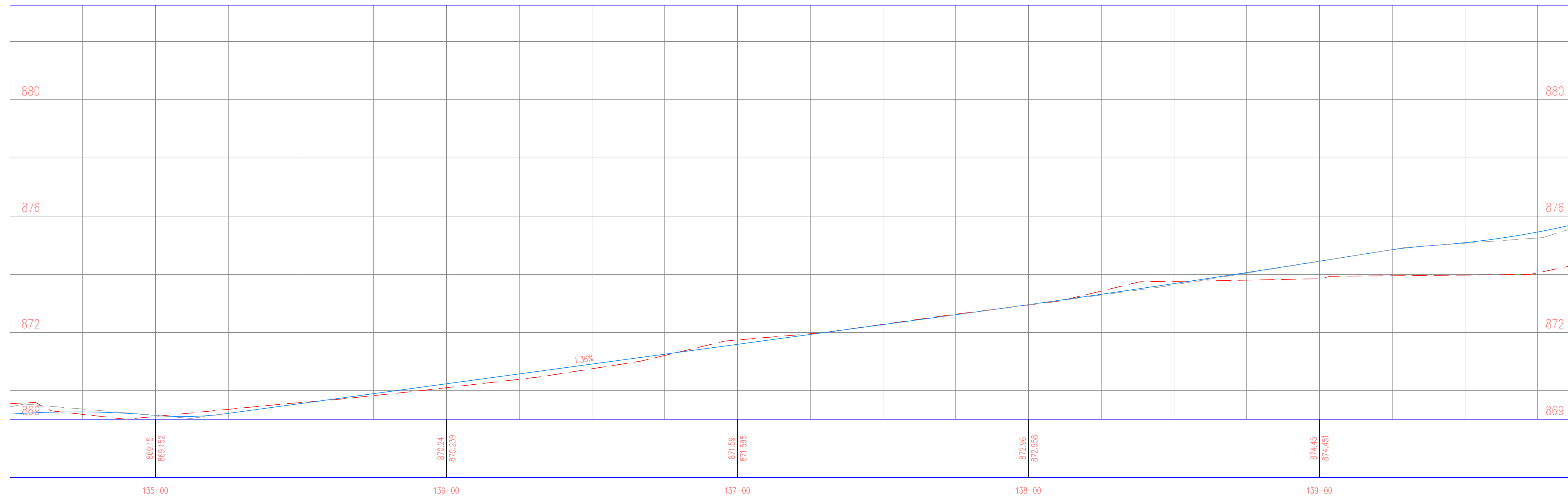
REGIONAL TRAIL
 SCOTCH GROVE, IA 52310

SHEET NAME
 38TH STREET
 PLAN & PROFILE

SHEET NO.
35



38TH PROFILE



PROJECT: CEE: 4850
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REGIONAL TRAIL
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SHEET NAME
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SHEET NO.
36

PROJECT: CEE: 4850
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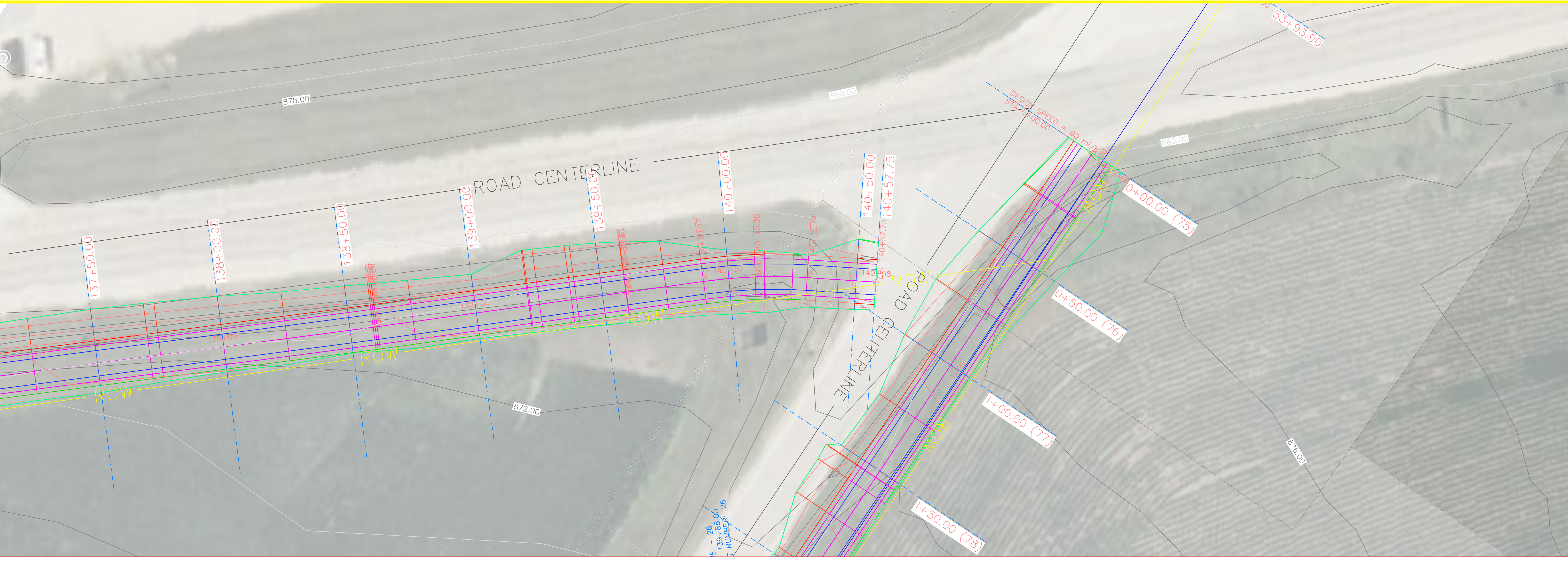


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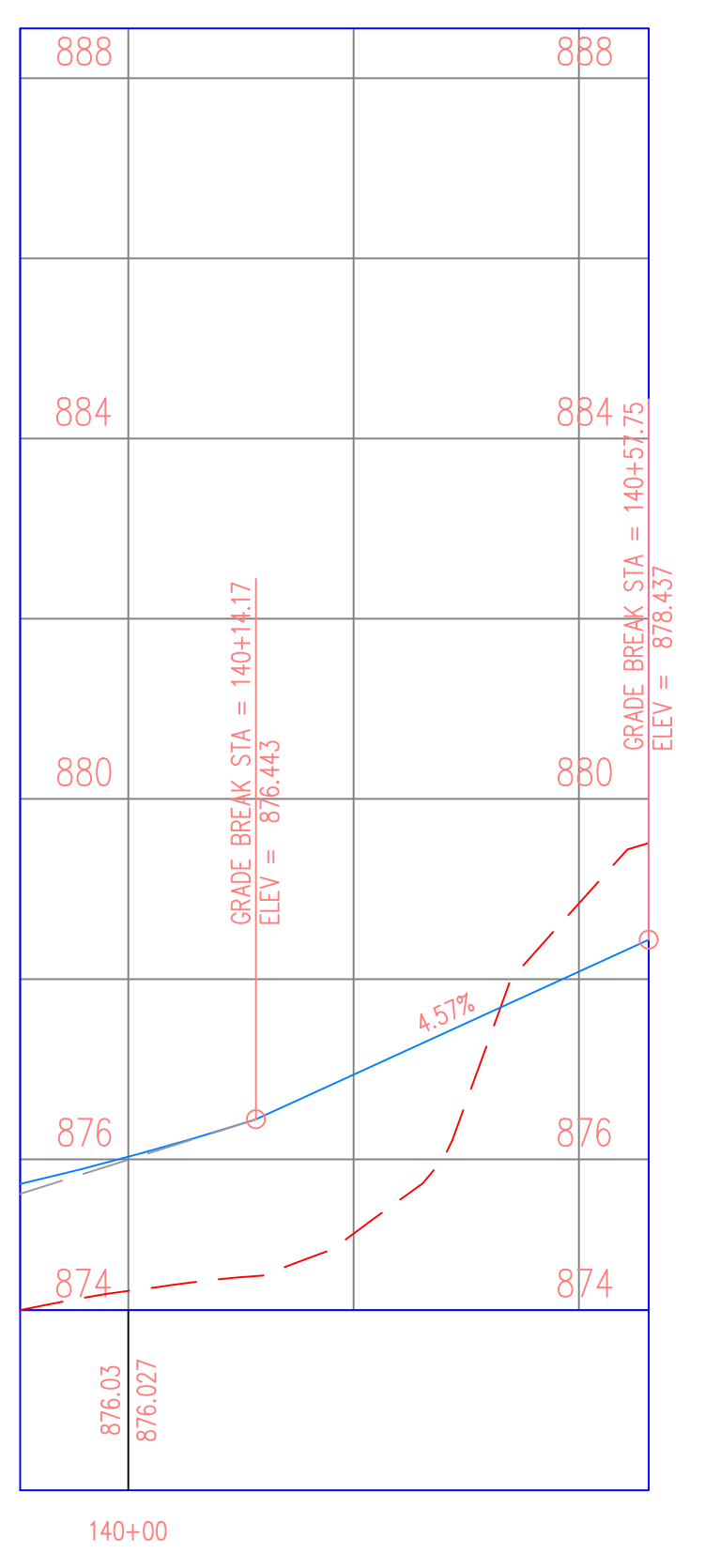
REGIONAL TRAIL
 SCOTCH GROVE, IA 52310

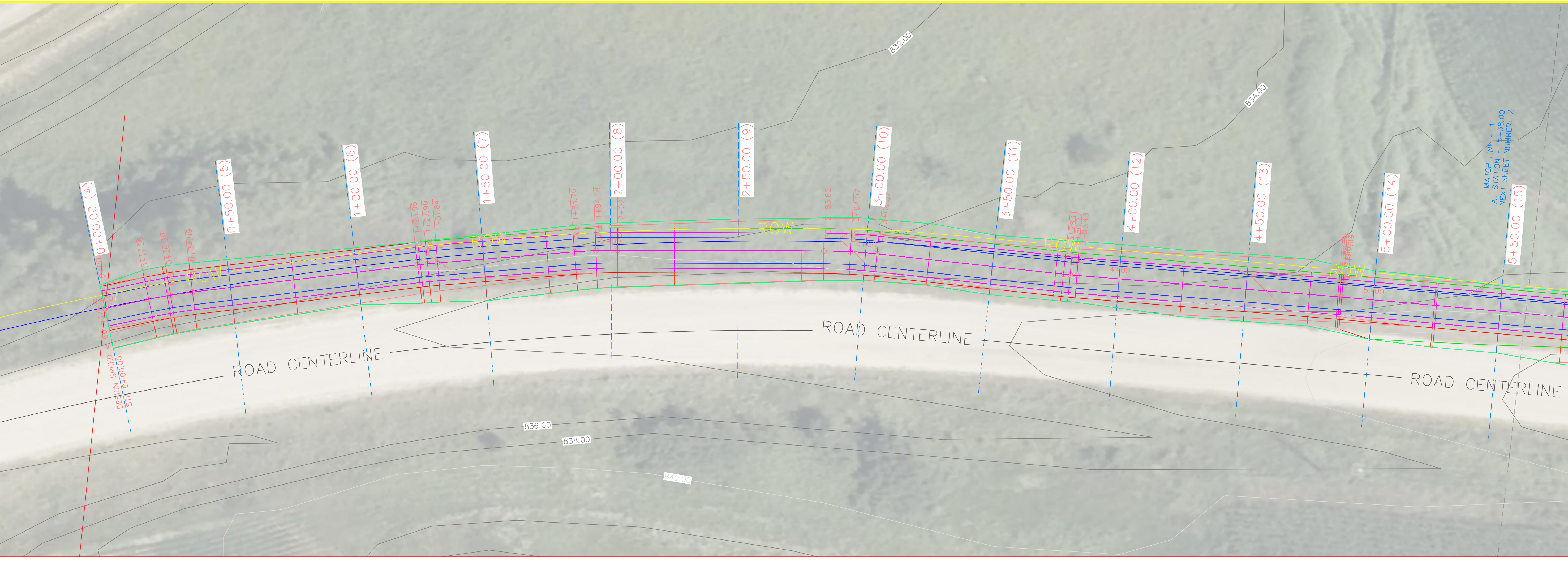
SHEET NAME
 38TH STREET
 PLAN & PROFILE

SHEET NO.
37

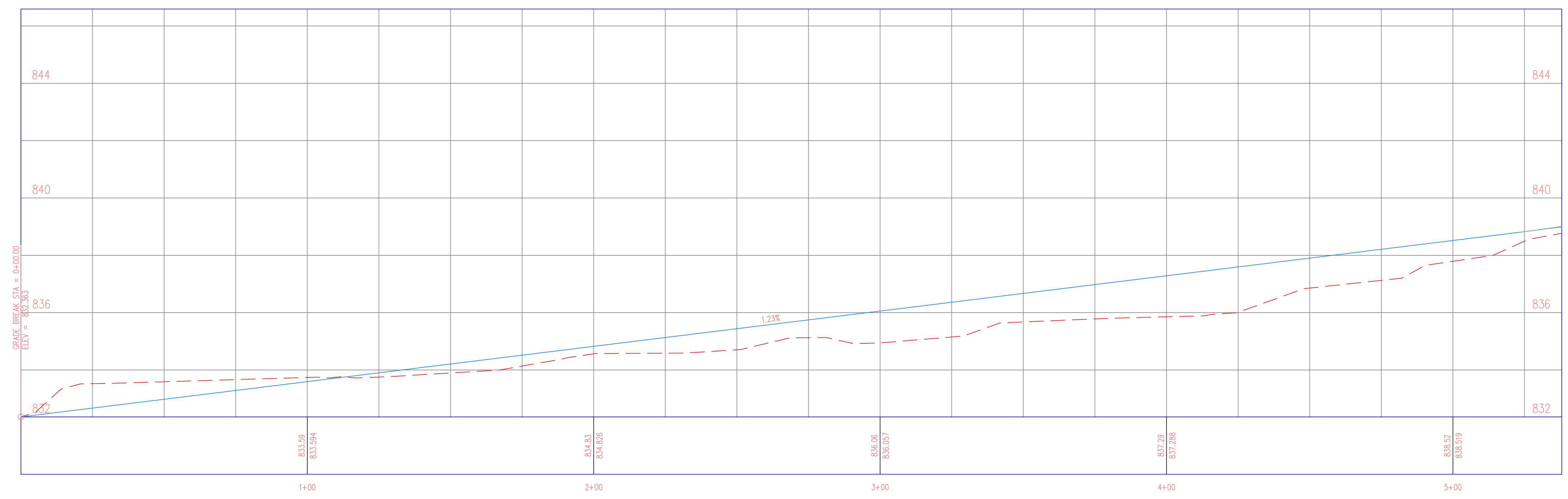


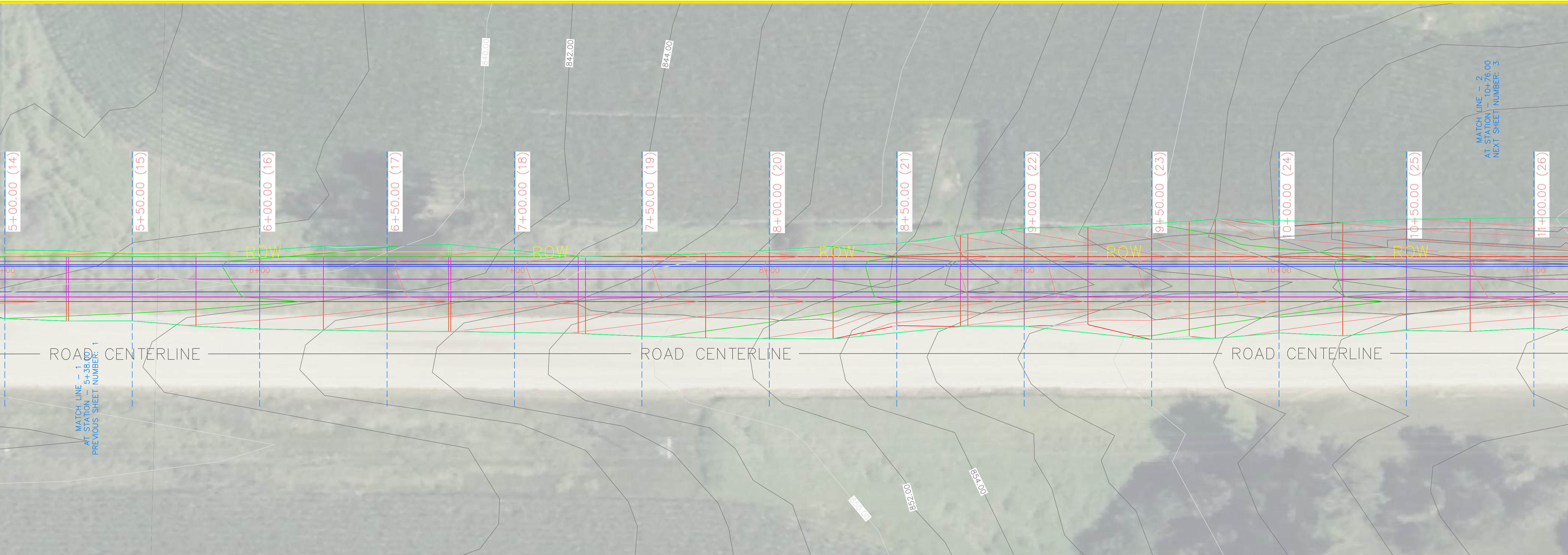
38TH PROFILE





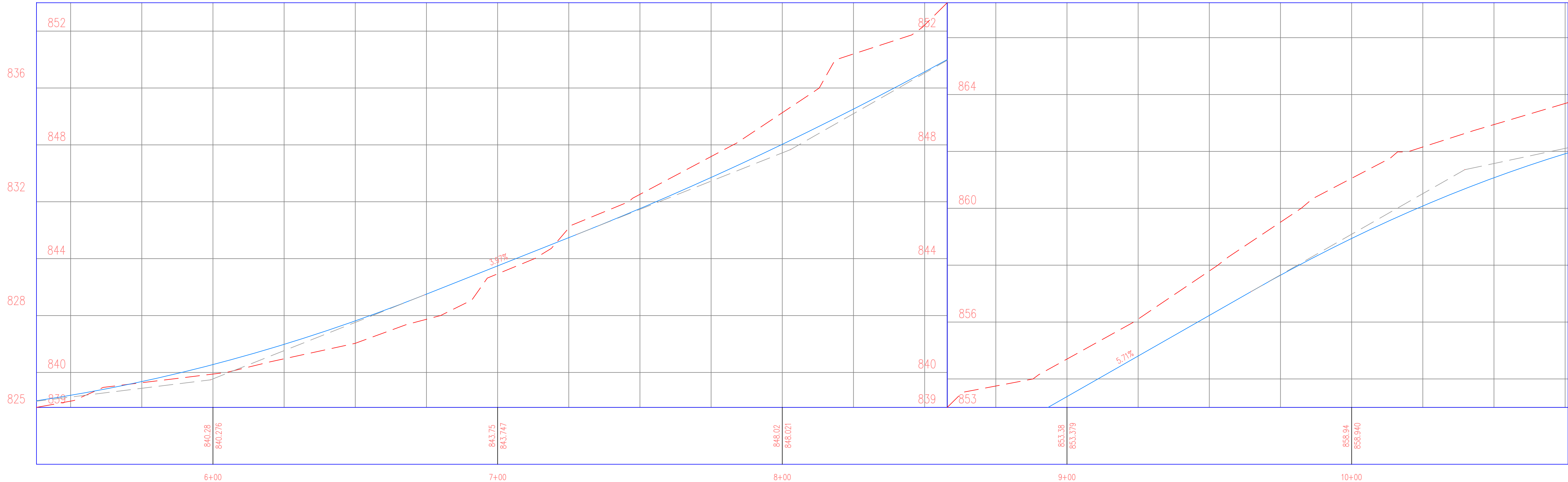
190TH W PROFILE





190TH W PROFILE

190TH W PROFILE



PROJECT: CEE: 4850
 DATE: 5/3/24
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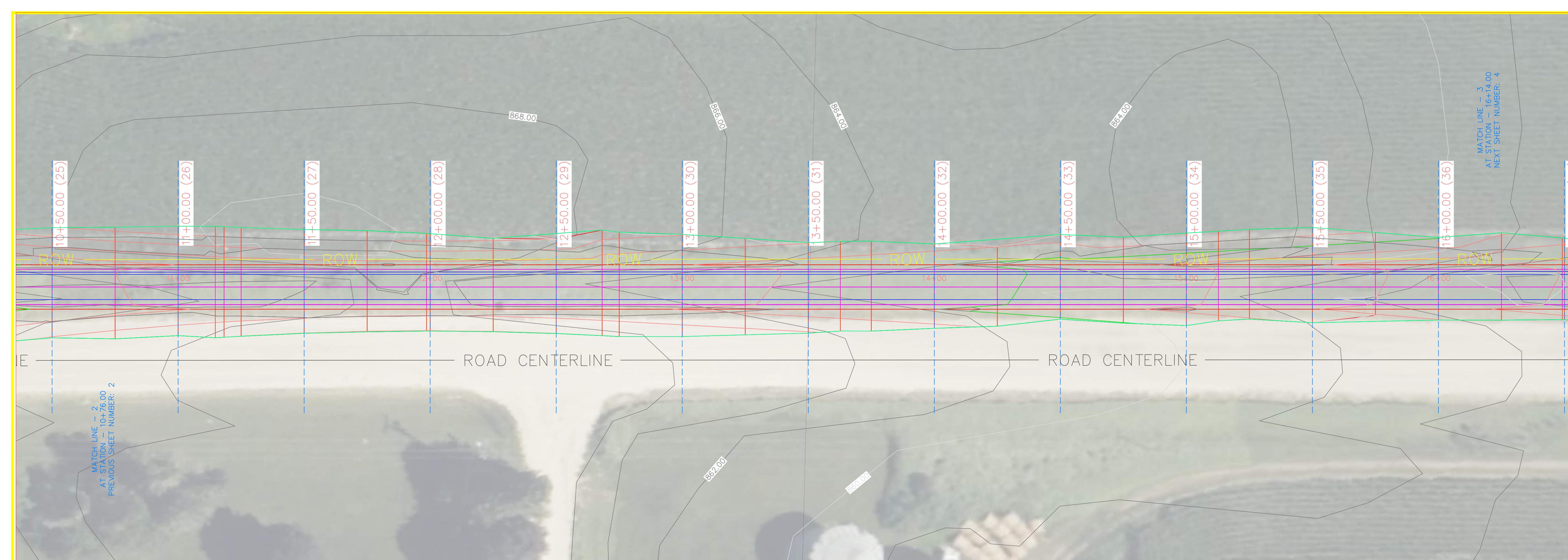


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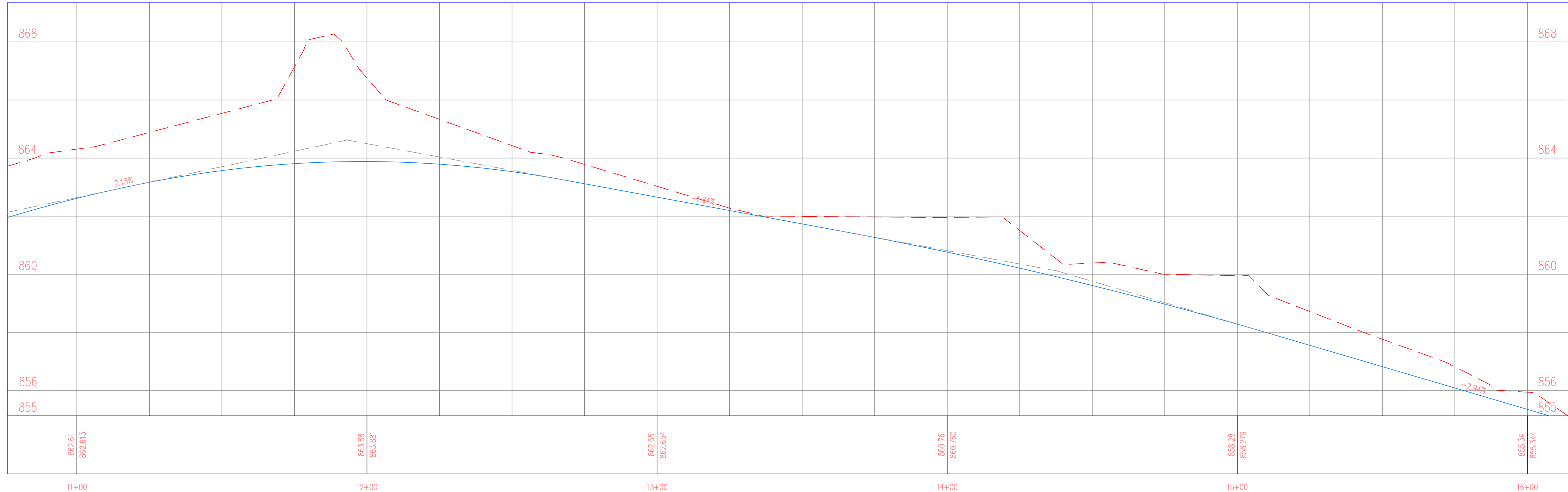
REGIONAL TRAIL
 SCOTCH GROVE, IA 52310

SHEET NAME
 190TH STREET
 PLAN & PROFILE

SHEET NO.
39



190TH W PROFILE



PROJECT: CEE: 4850
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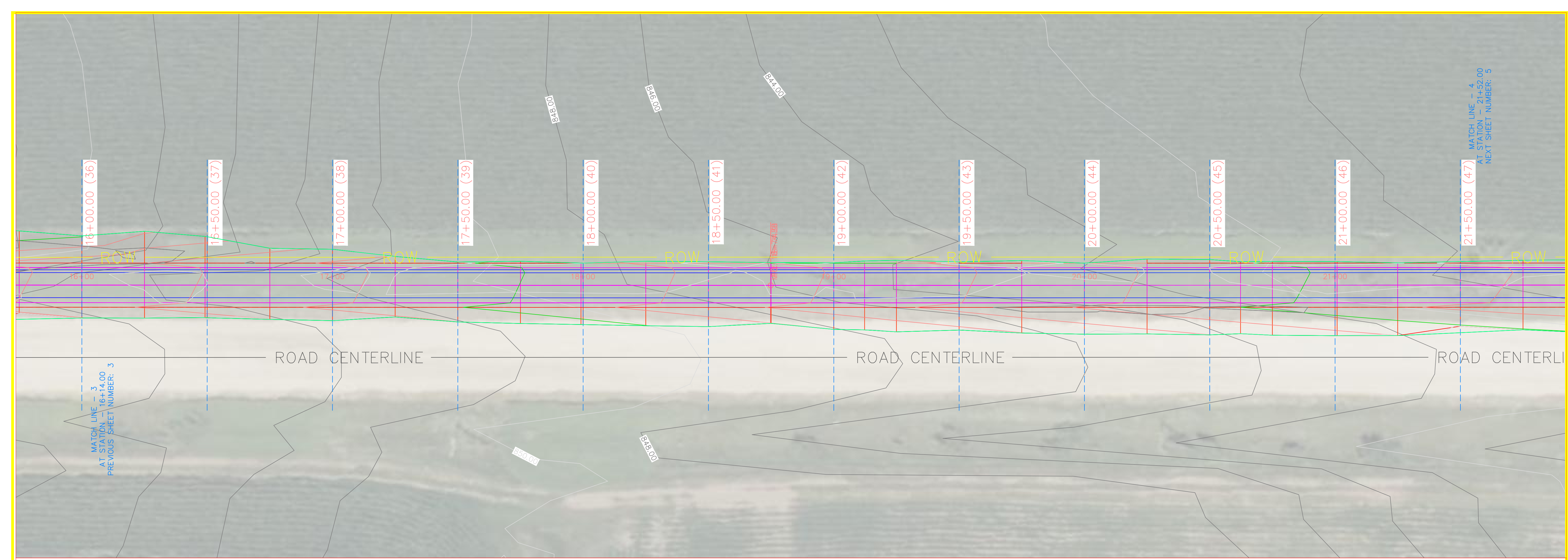


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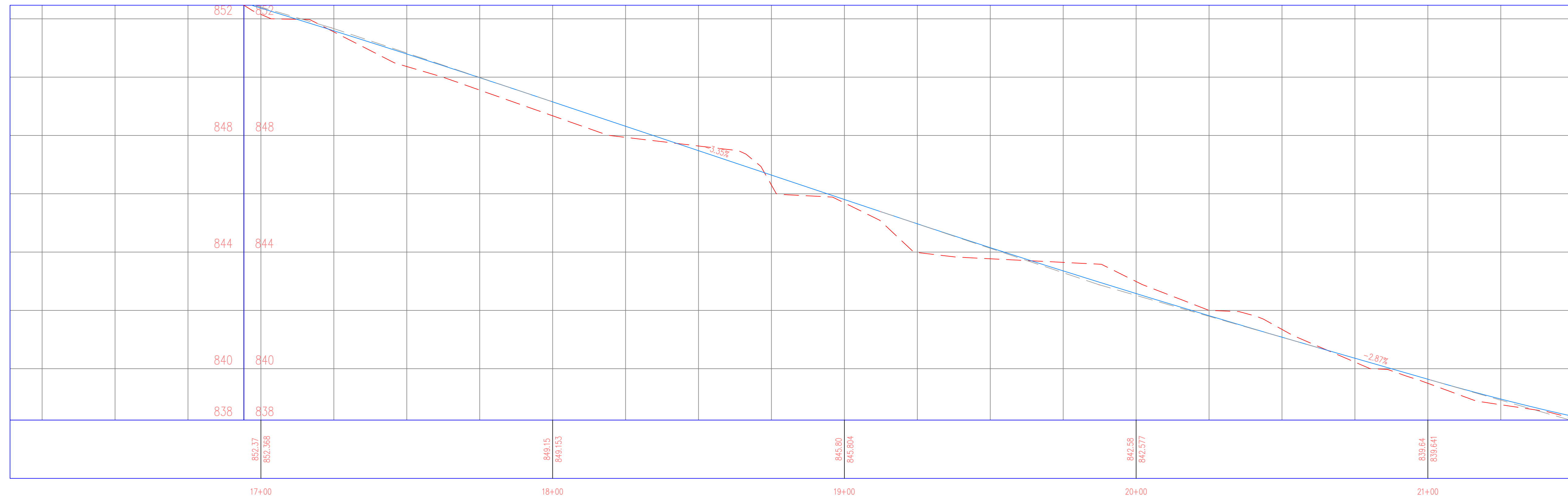
REGIONAL TRAIL
 SCOTCH GROVE, IA 52310

SHEET NAME
 190TH STREET
 PLAN & PROFILE

SHEET NO.
40



190TH W PROFILE



PROJECT: CEE: 4850
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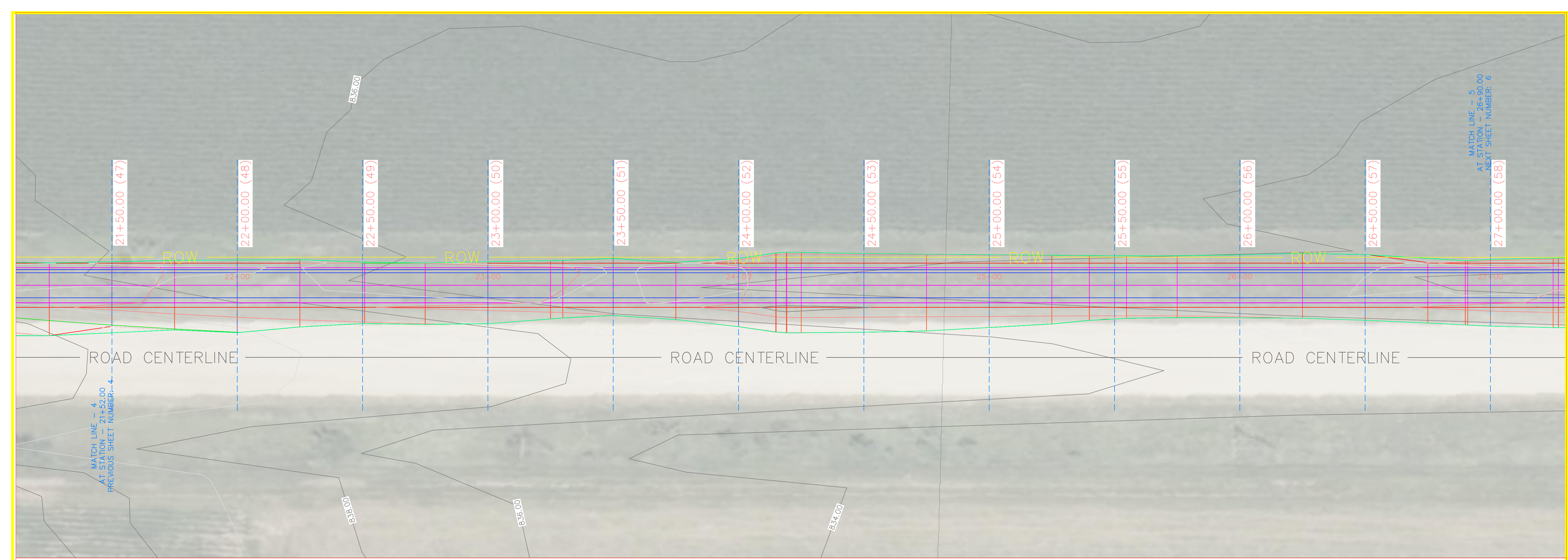


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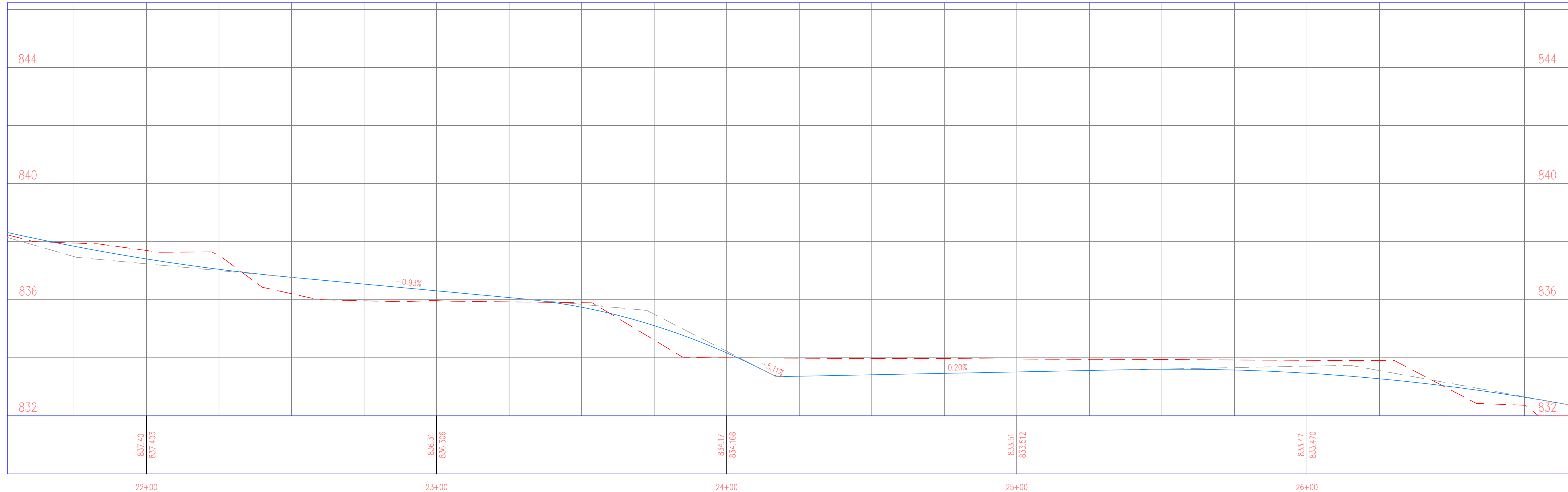
REGIONAL TRAIL
 SCOTCH GROVE, IA 52310

SHEET NAME
 190TH STREET
 PLAN & PROFILE

SHEET NO.
41



190TH W PROFILE



PROJECT: CEE: 4850
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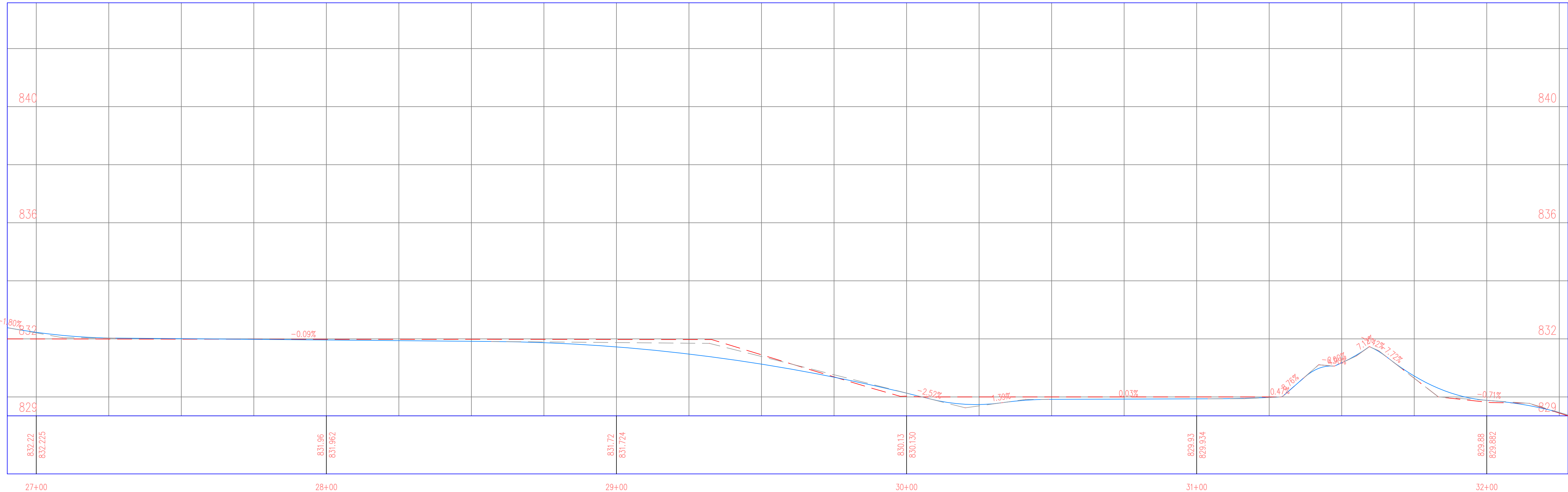
REGIONAL TRAIL
 SCOTCH GROVE, IA 52310

SHEET NAME
 190TH STREET
 PLAN & PROFILE

SHEET NO.
42



190TH W PROFILE



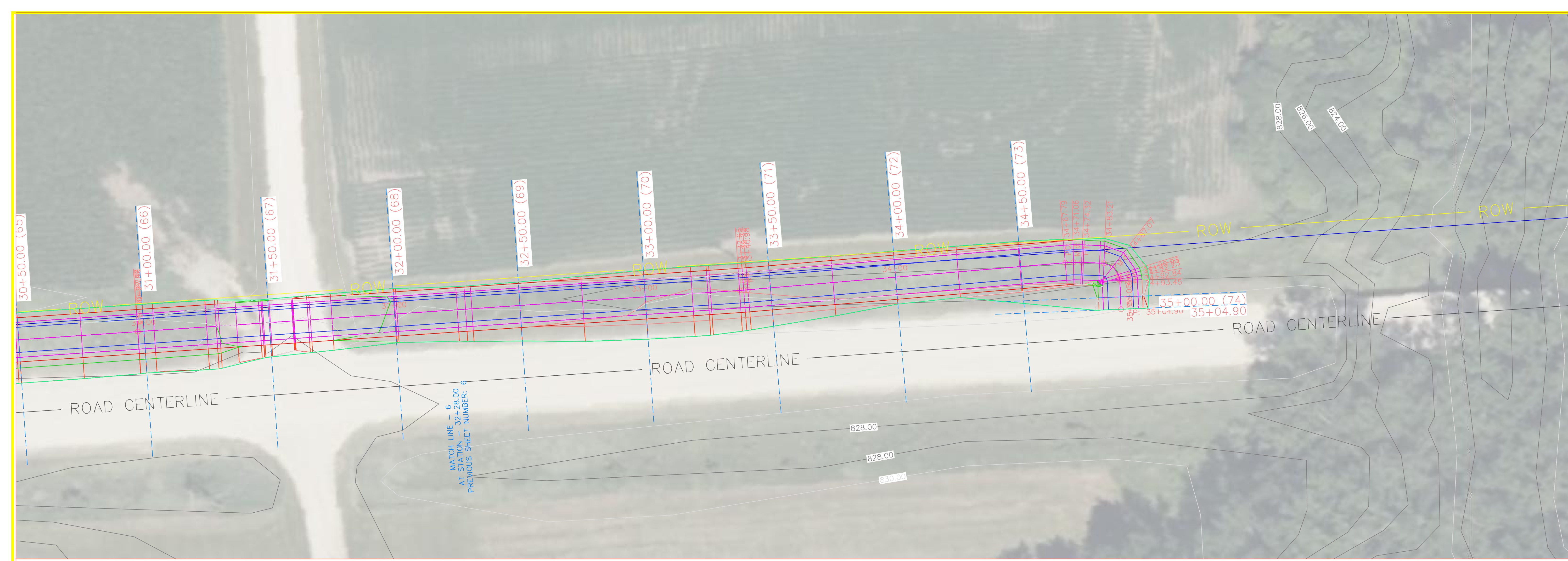
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REGIONAL TRAIL
 SCOTCH GROVE, IA 52310

SHEET NAME
 190TH STREET
 PLAN & PROFILE

SHEET NO.
43



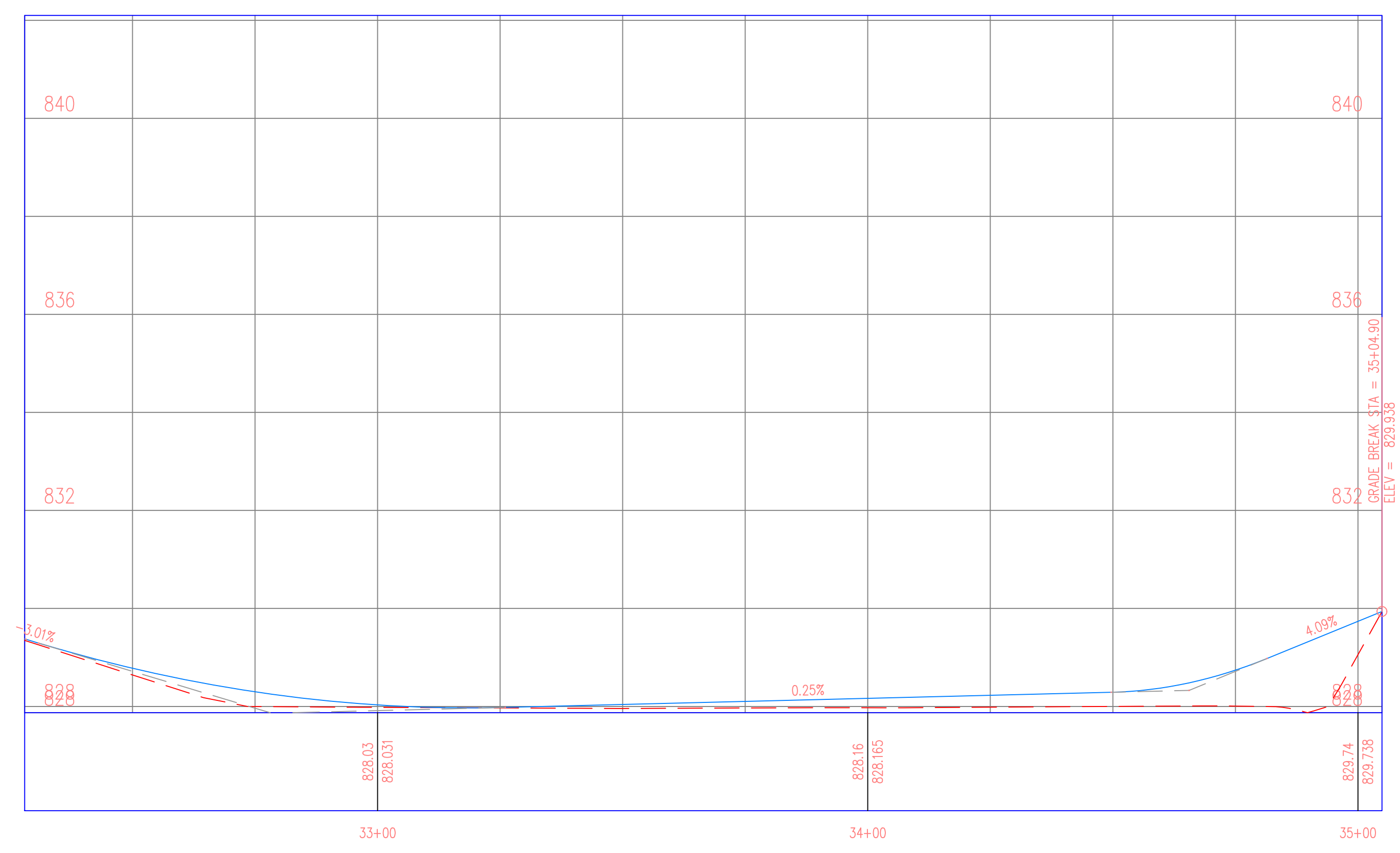
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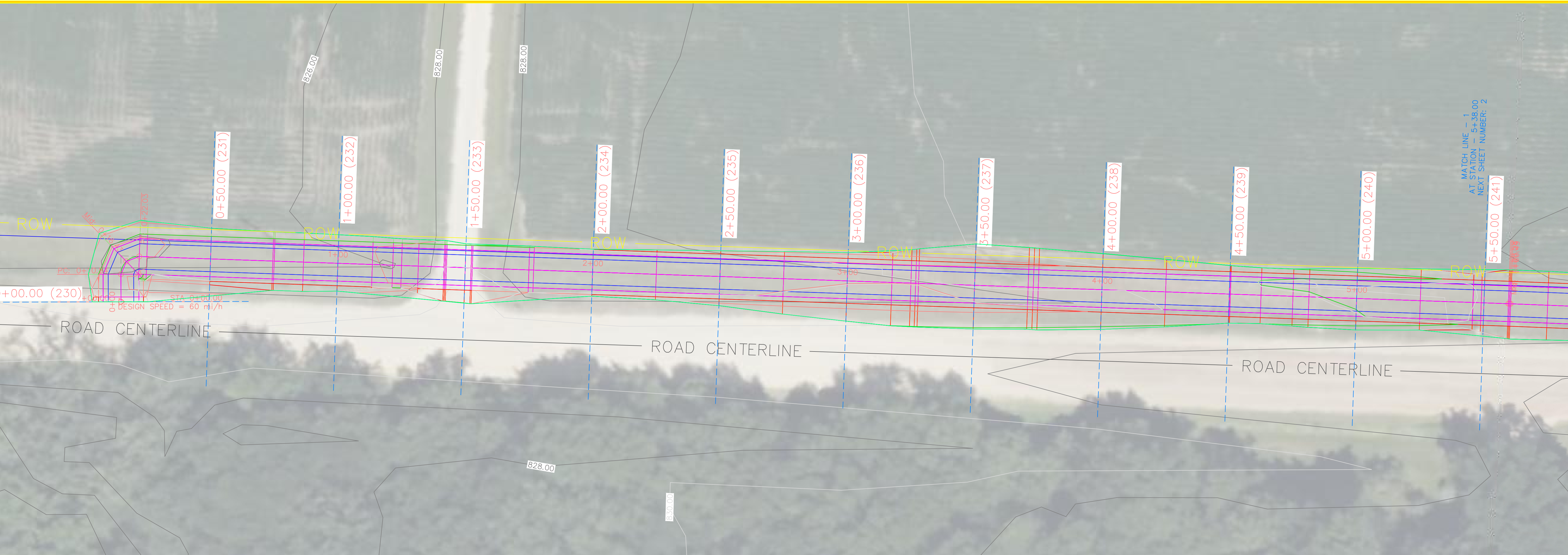
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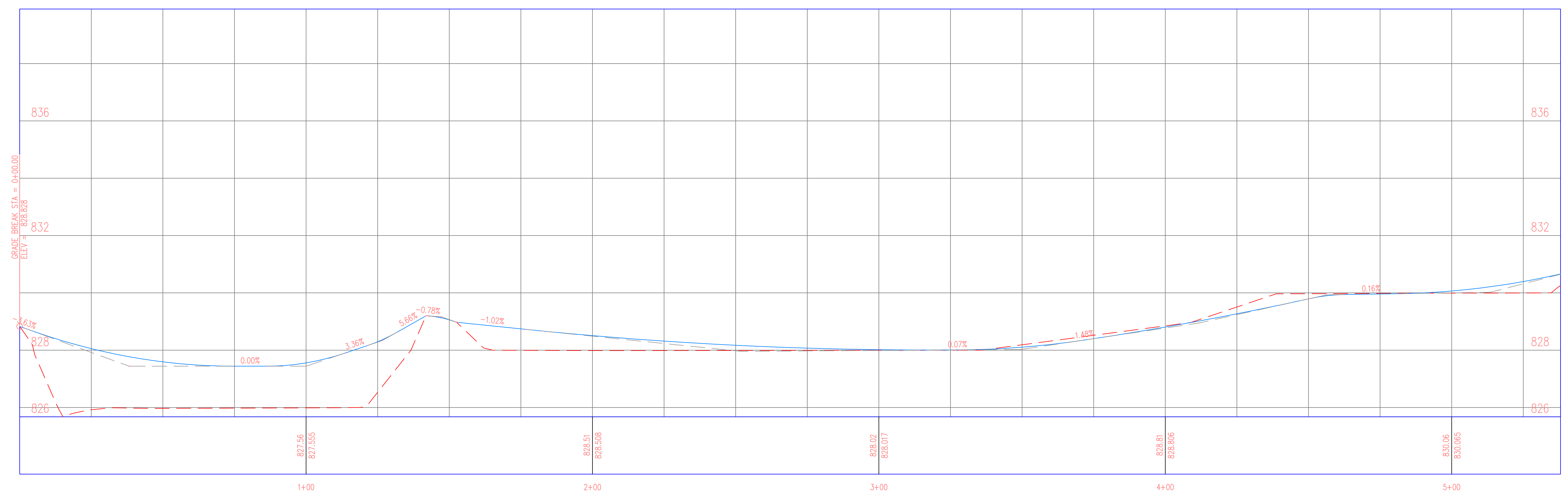
REGIONAL TRAIL
 SCOTCH GROVE, IA 52310

SHEET NAME
 190TH STREET
 PLAN & PROFILE

SHEET NO.
44



190TH E P4 PROFILE



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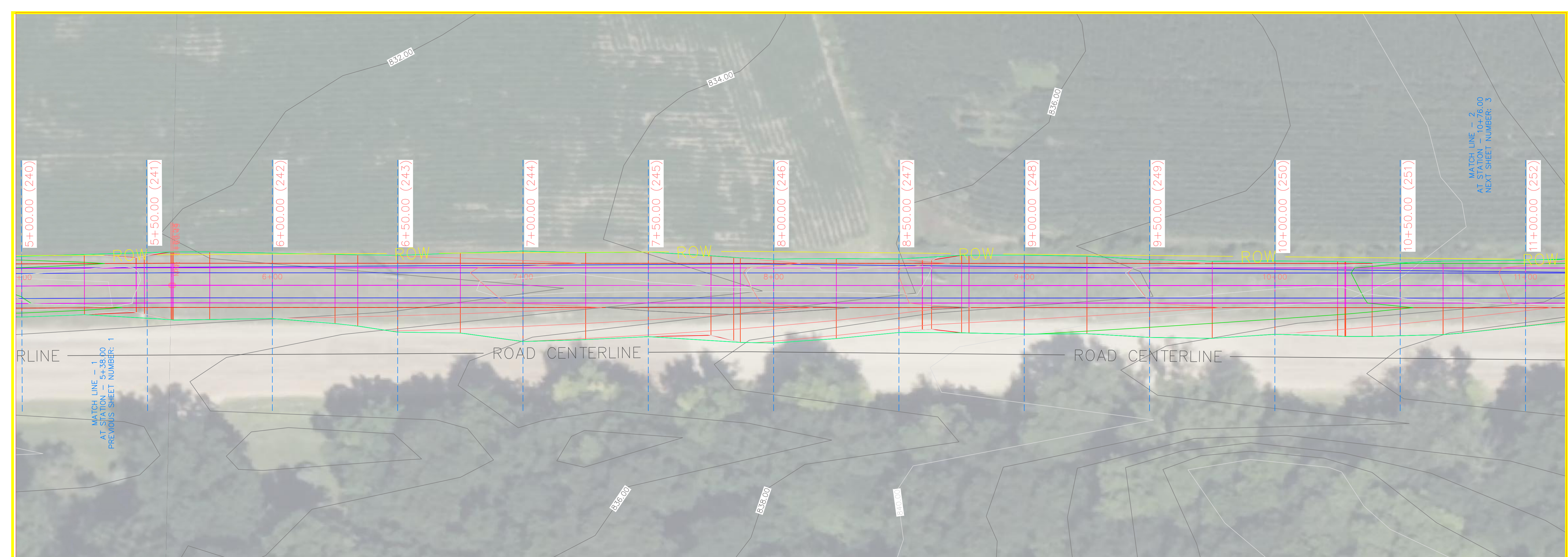


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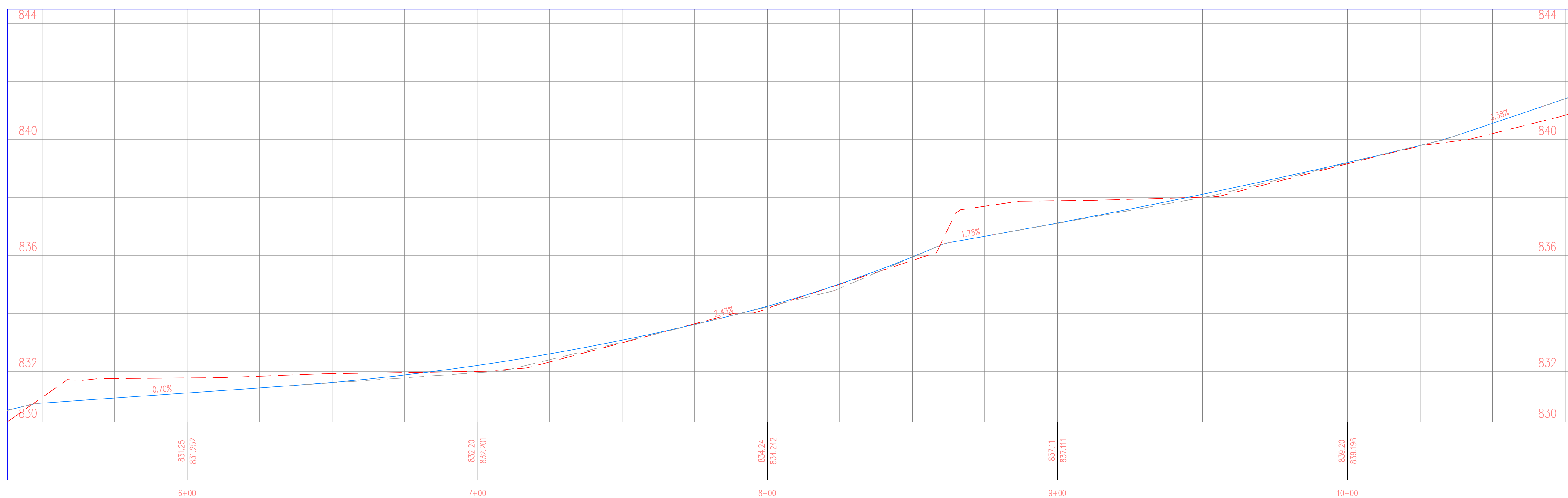
REGIONAL TRAIL
 SCOTCH GROVE, IA 52310

SHEET NAME
 190TH STREET
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SHEET NO.
45



190TH E P4 PROFILE



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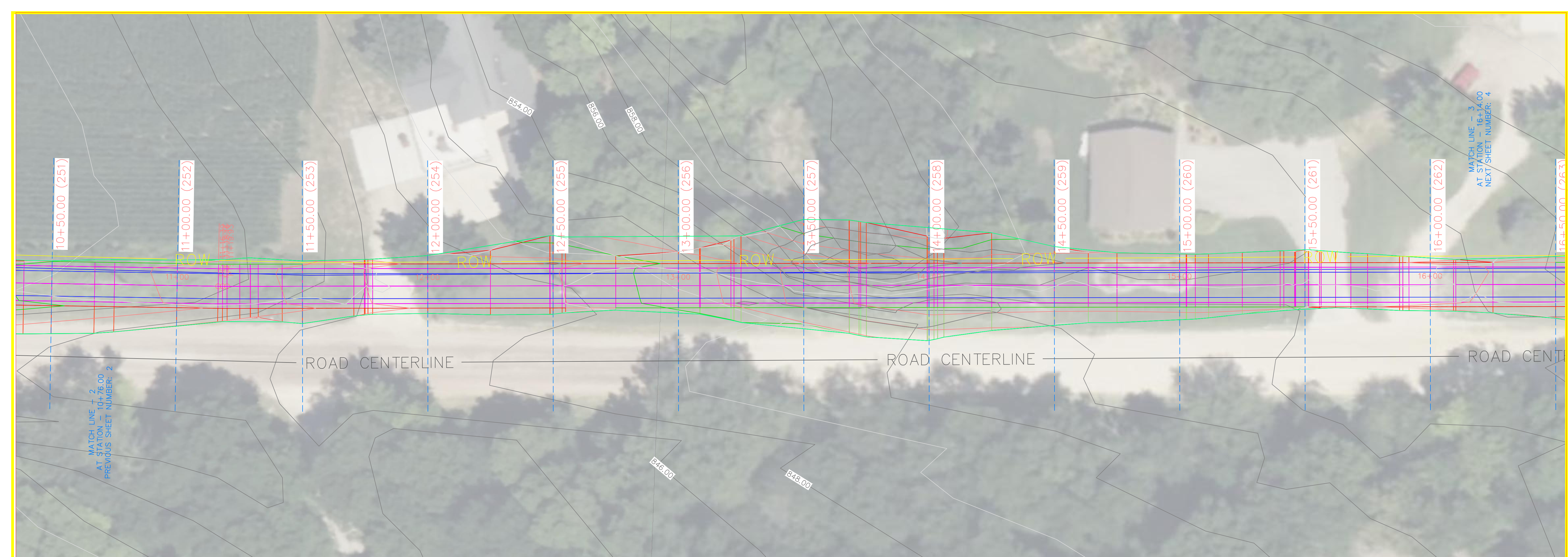


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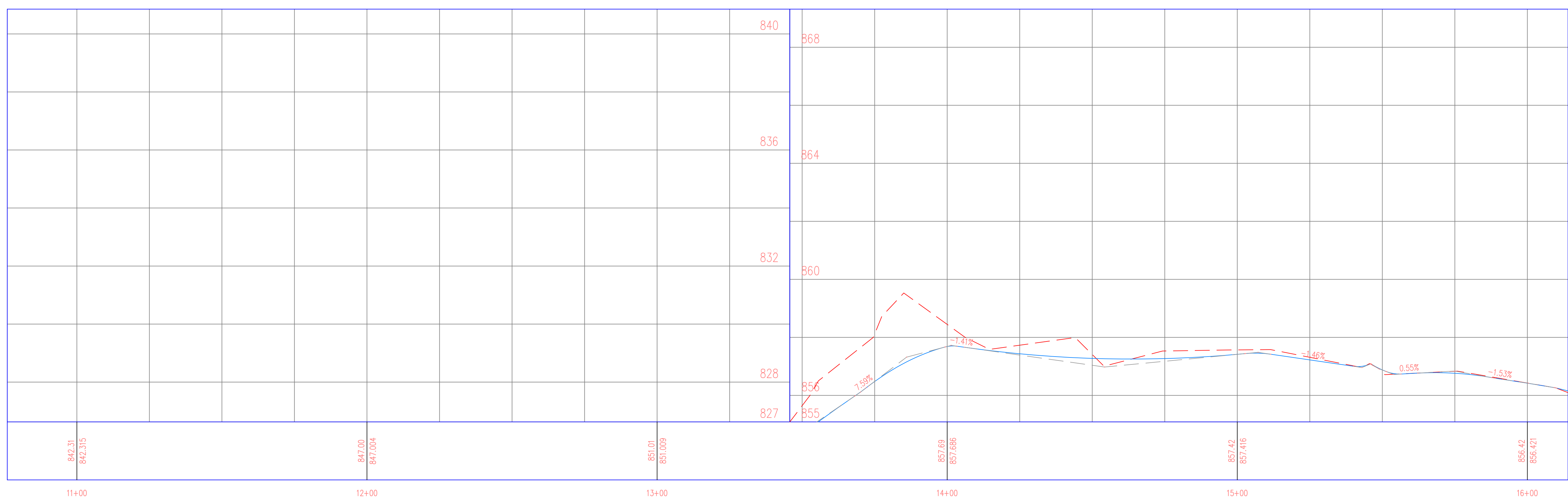
SHEET NAME
 190TH STREET
 PLAN & PROFILE

SHEET NO.
46



190TH E P4 PROFILE

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PROJECT: CEE: 4850
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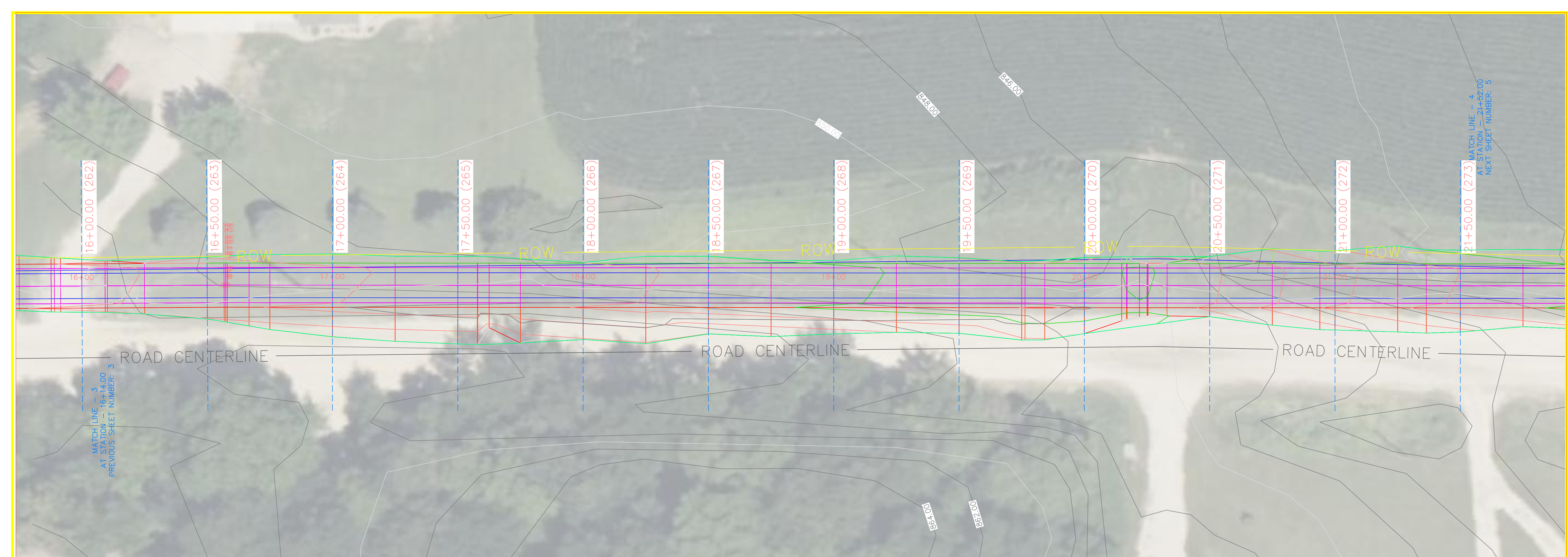


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 SCOTCH GROVE, IA 52310

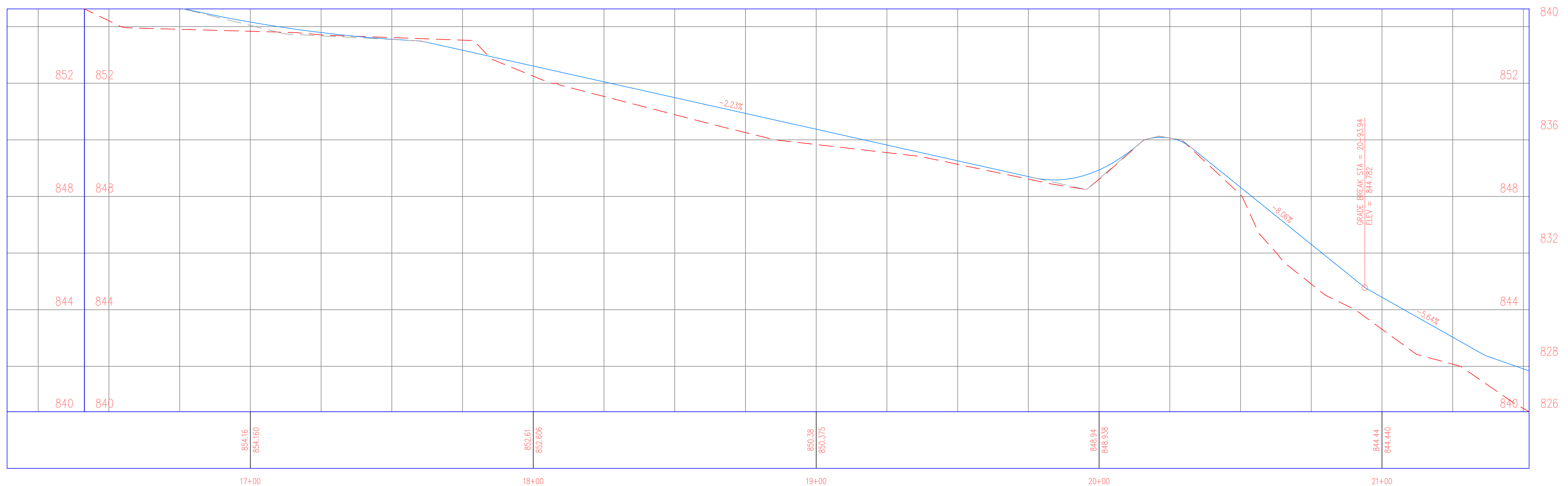
SHEET NAME
 190TH STREET
 PLAN & PROFILE

SHEET NO.
47



190TH E P4 PROFILE

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PROJECT: CEE: 4850
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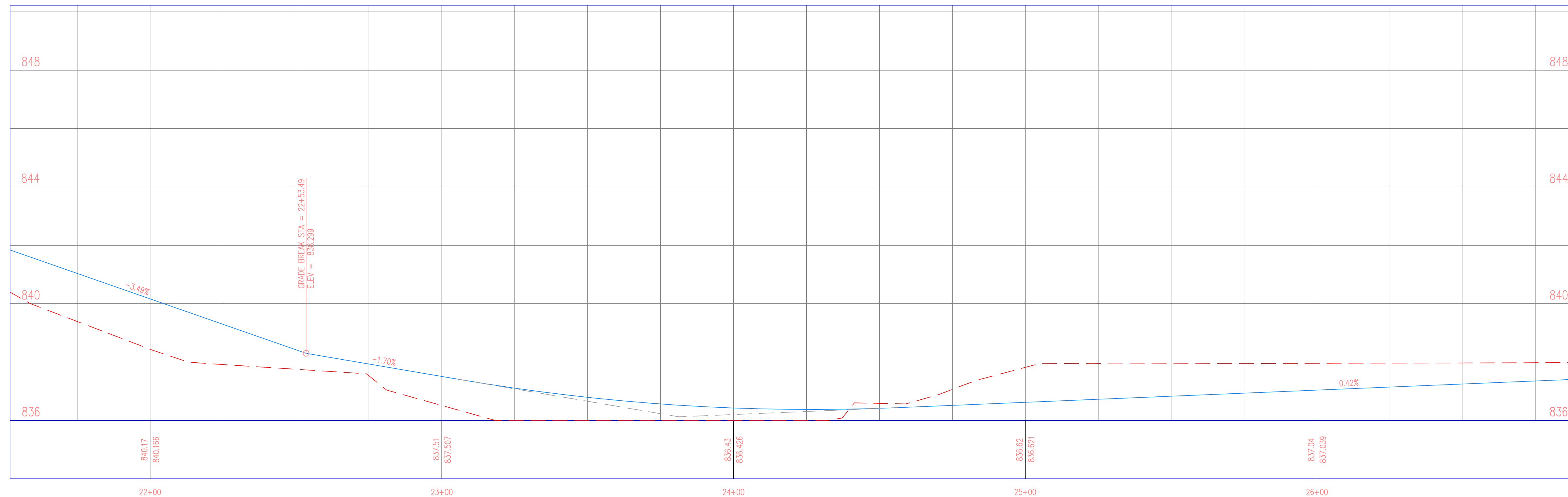
REGIONAL TRAIL
 SCOTCH GROVE, IA 52310

SHEET NAME
 190TH STREET
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SHEET NO.
48



190TH E P4 PROFILE



PROJECT: CEE: 4850
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49

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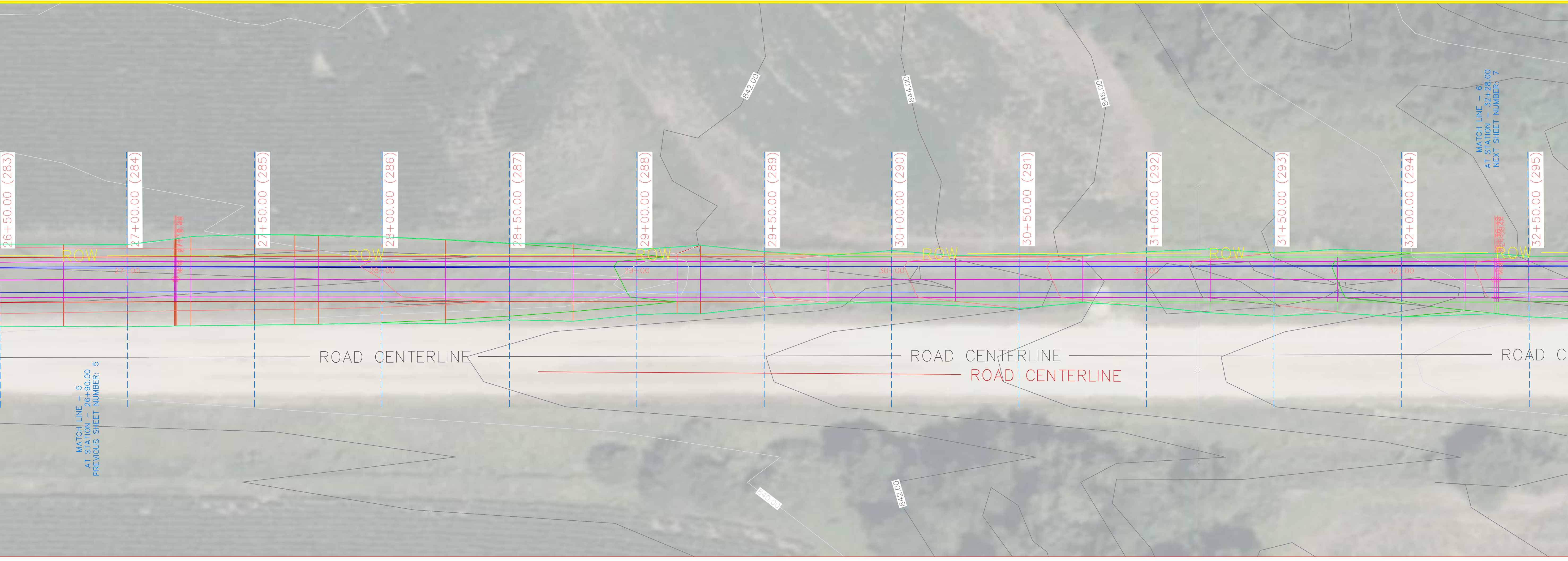


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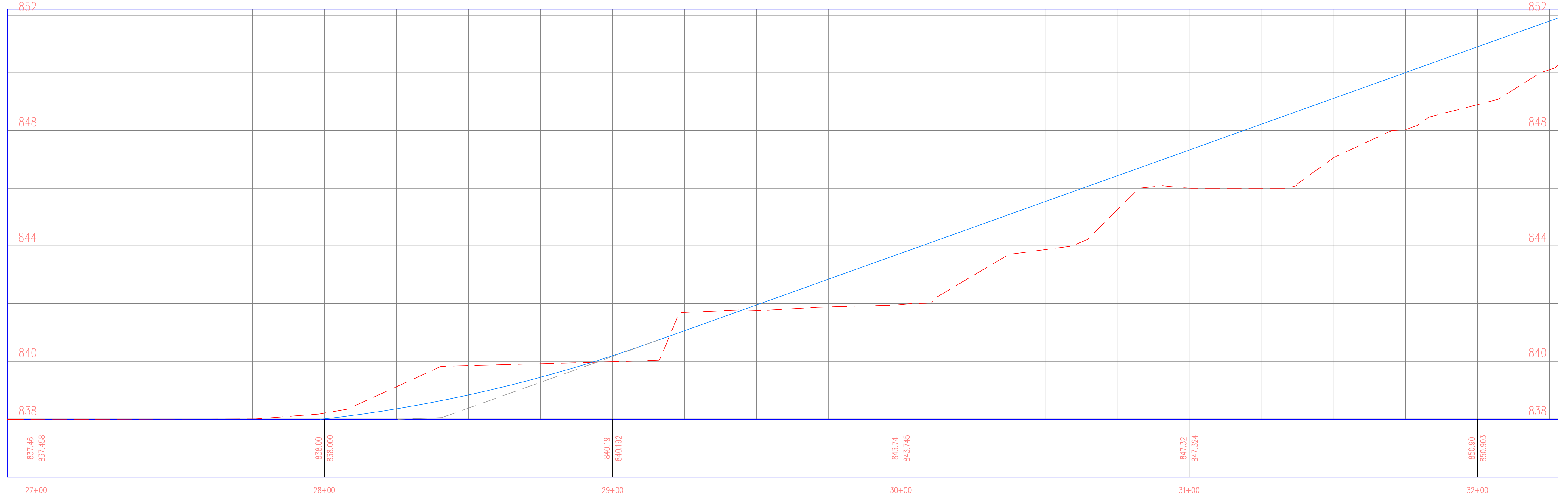
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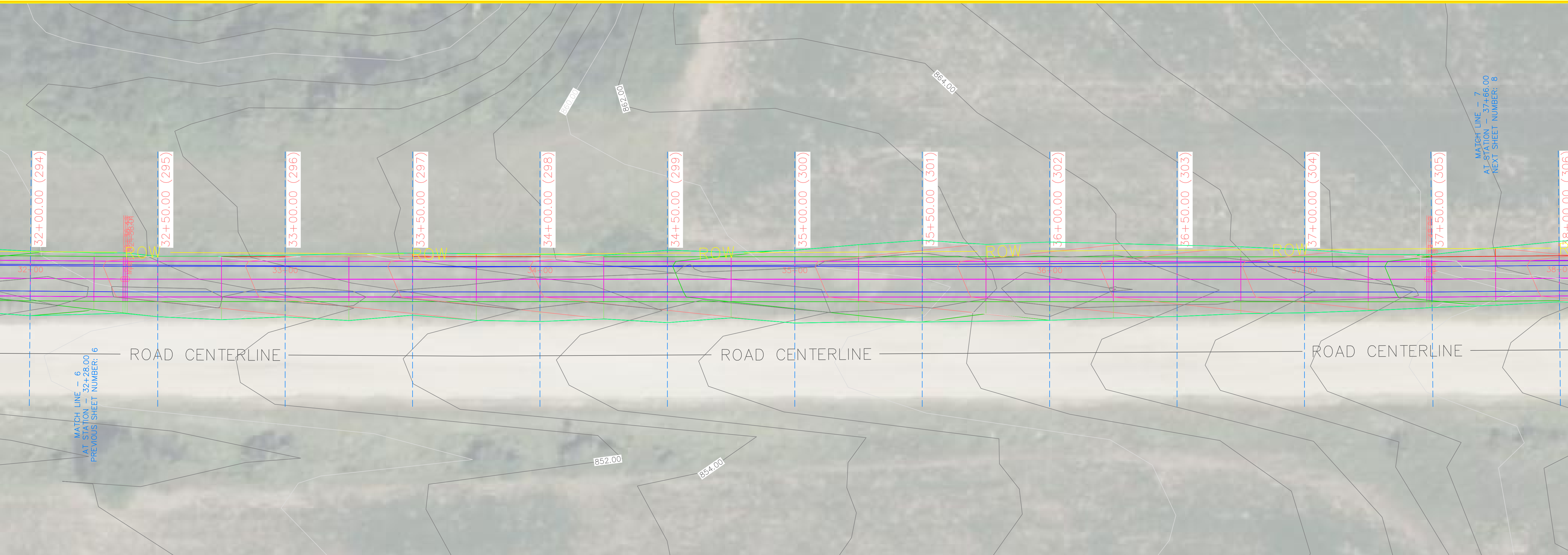
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 190TH STREET
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190TH E P4 PROFILE





190TH E P4 PROFILE

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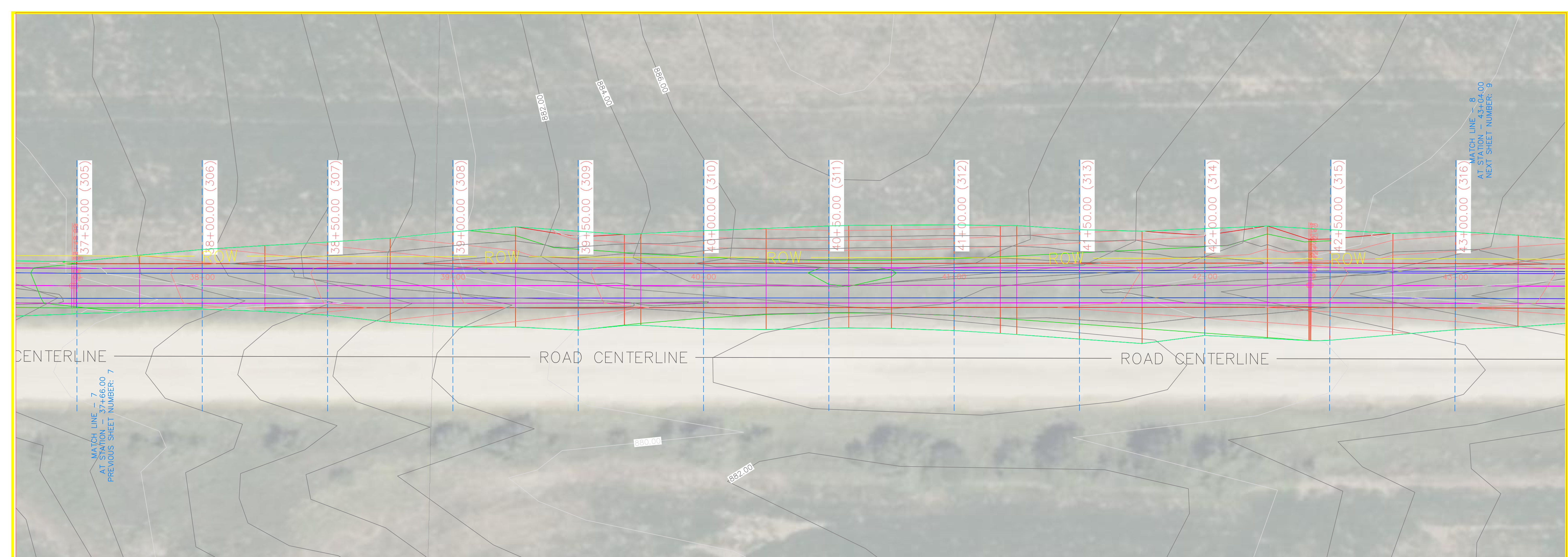


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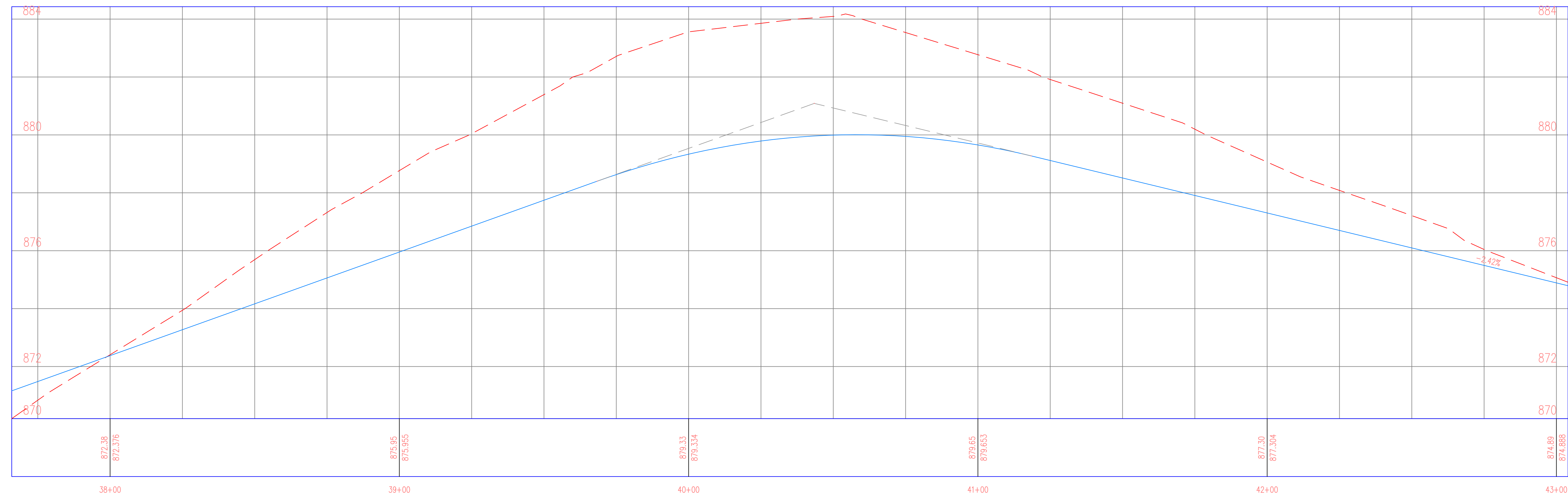
REGIONAL TRAIL
 SCOTCH GROVE, IA 52310

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190TH STREET PLAN & PROFILE

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51



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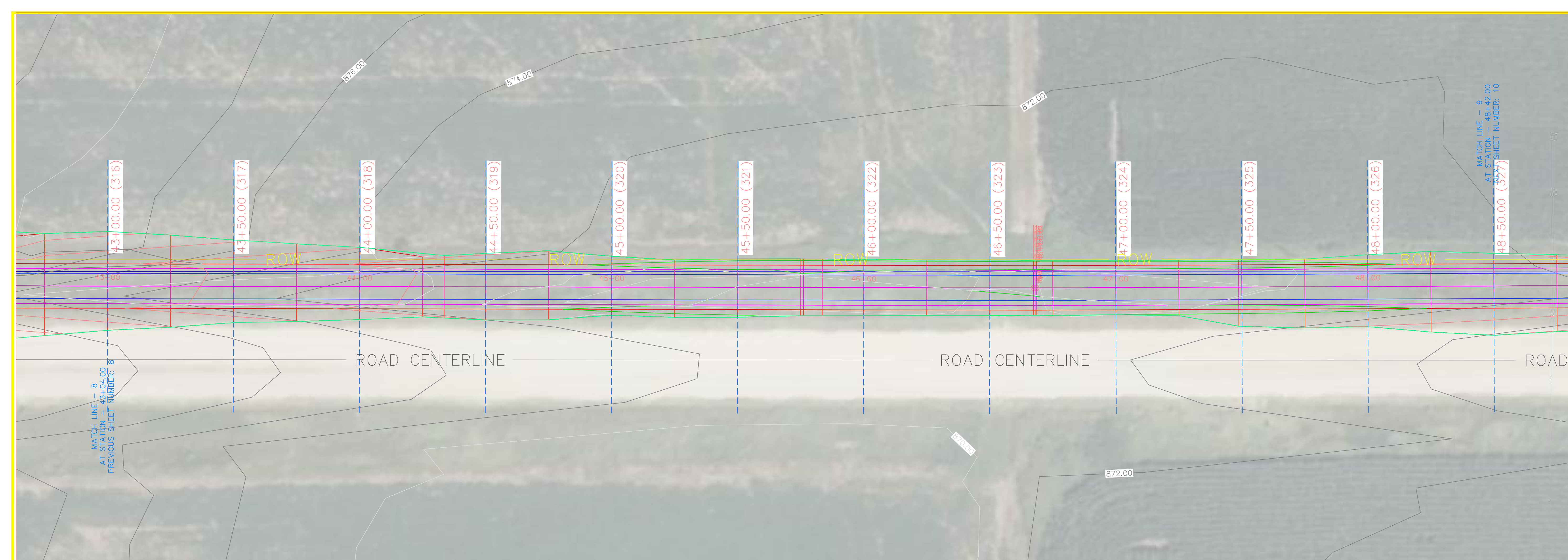


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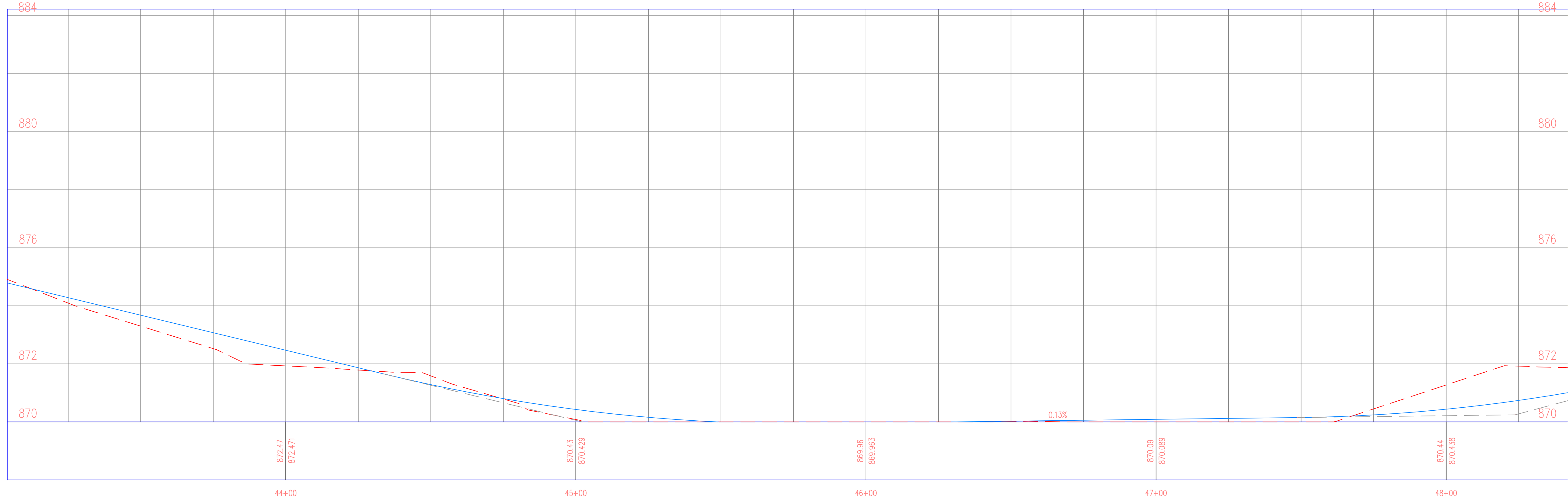
REGIONAL TRAIL
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52



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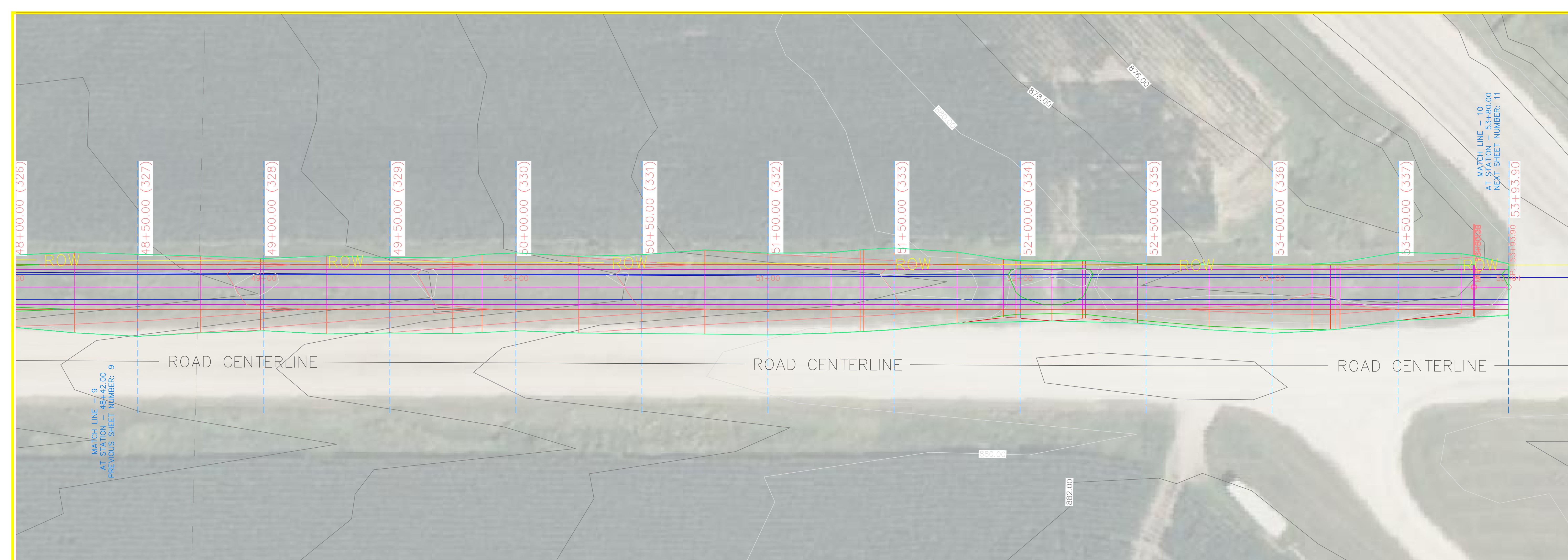


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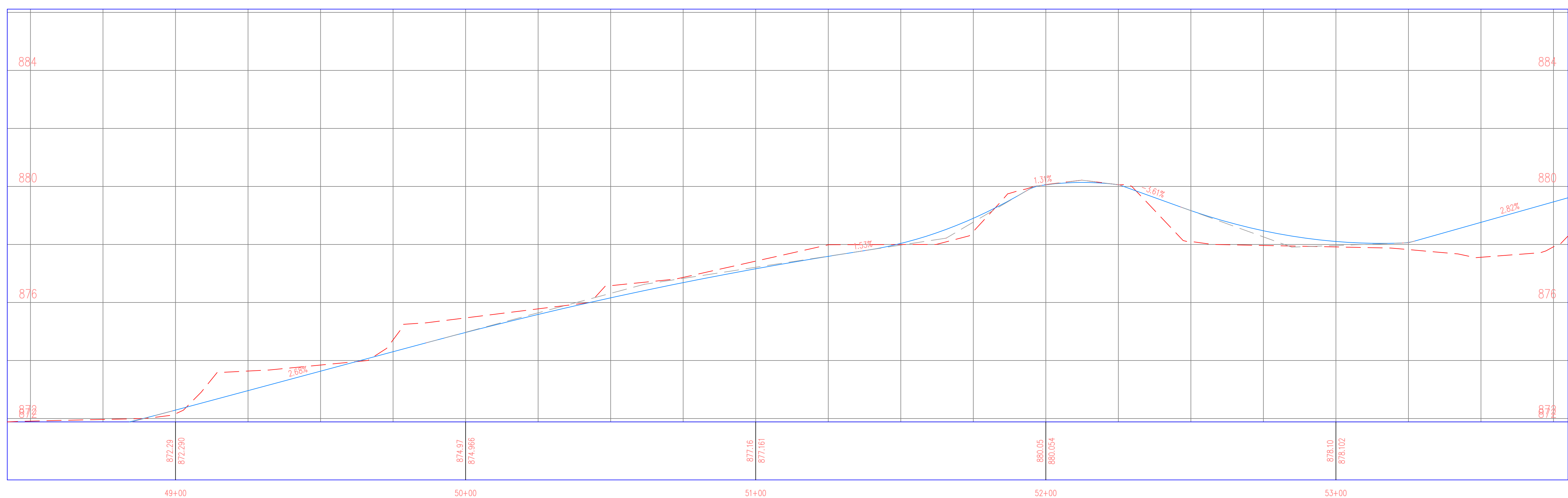
REGIONAL TRAIL
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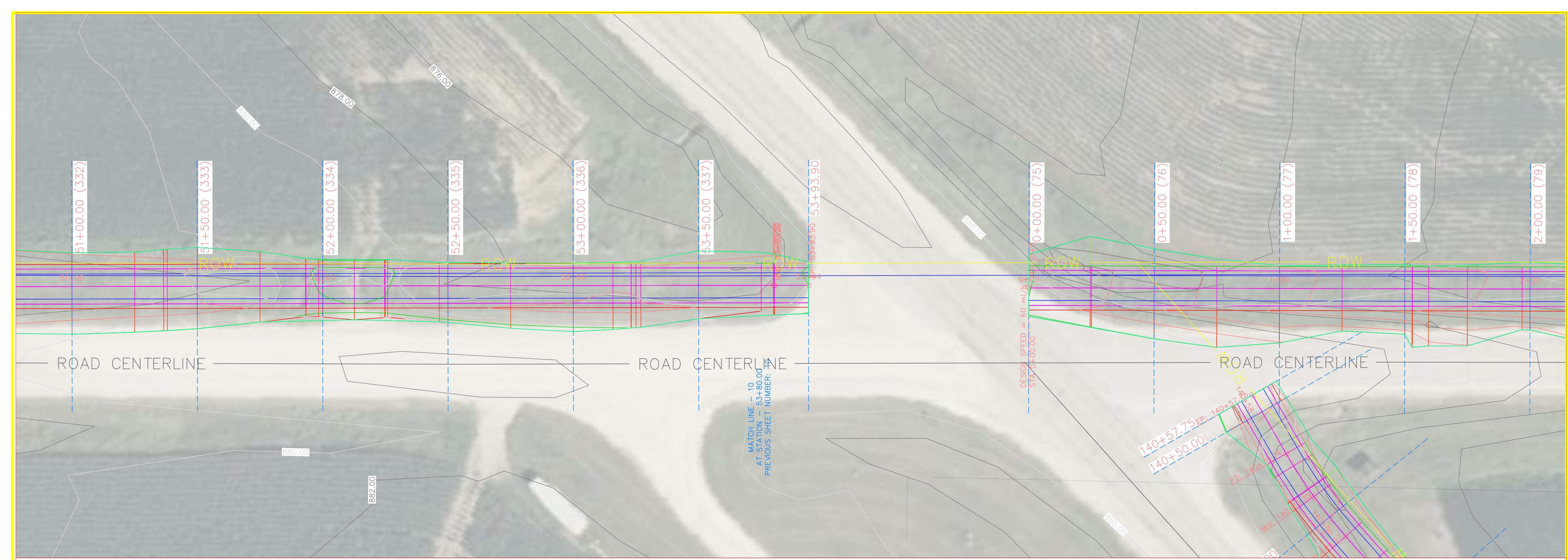


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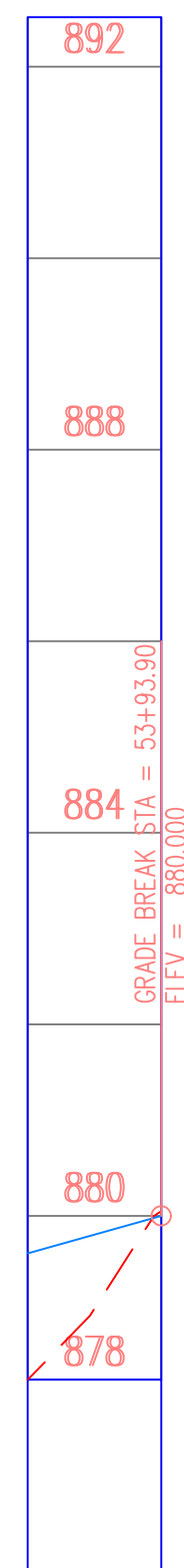
REGIONAL TRAIL
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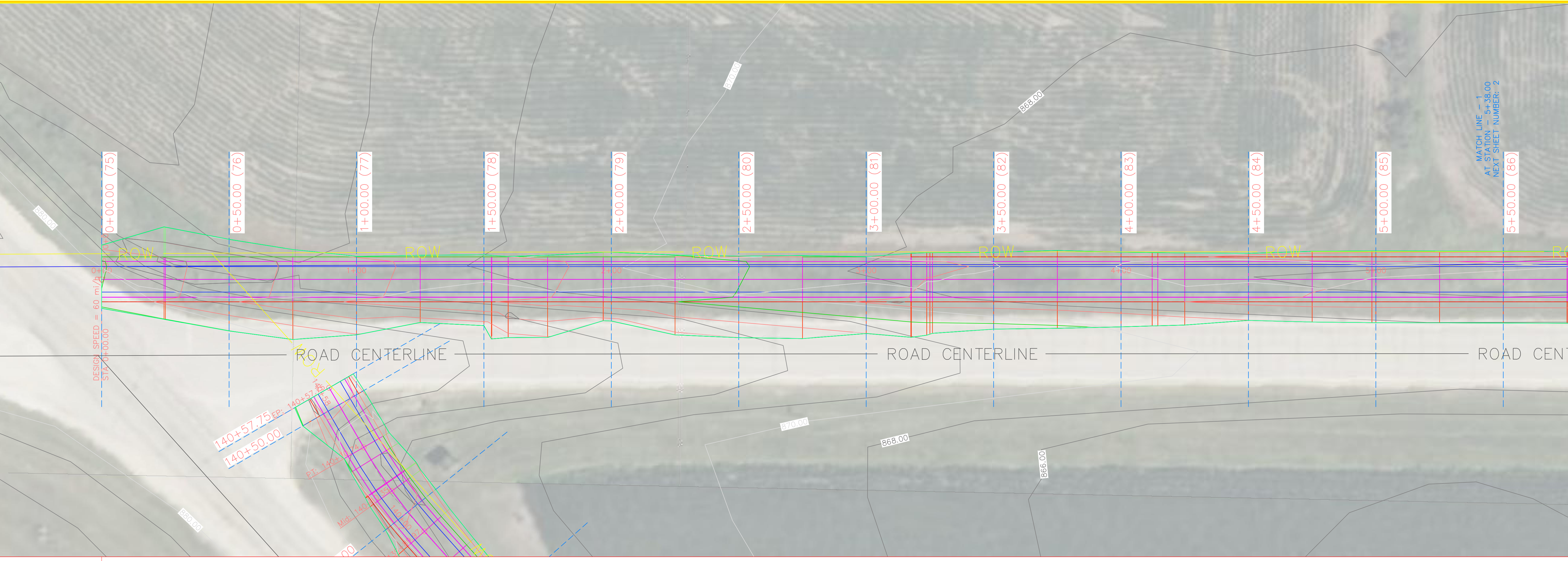


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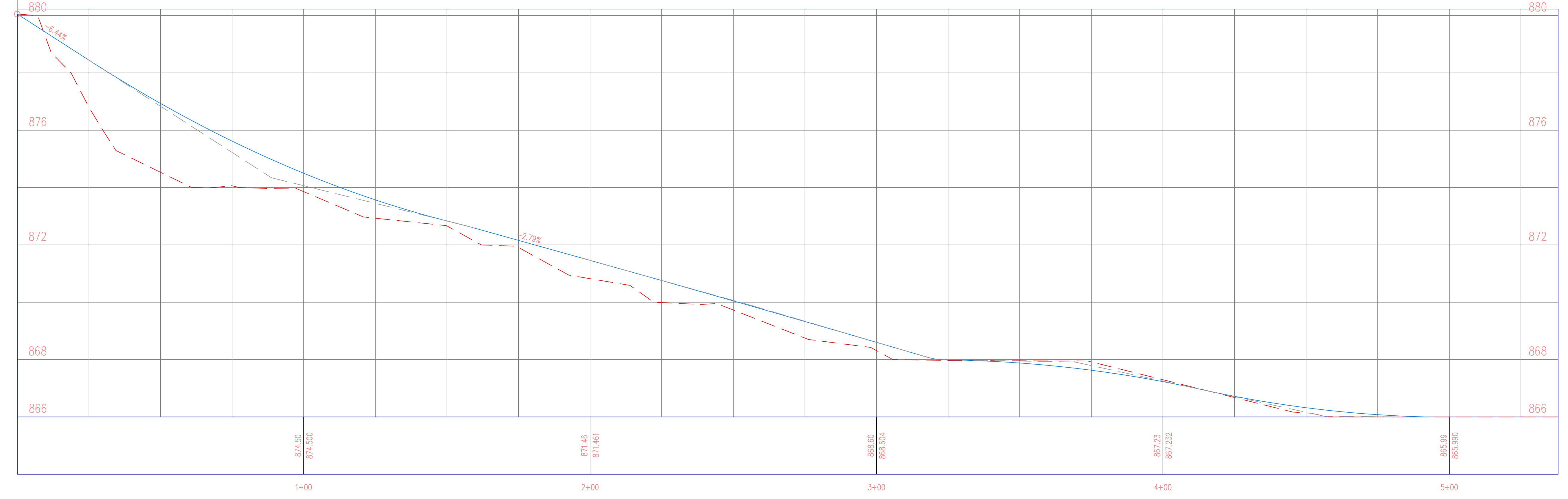
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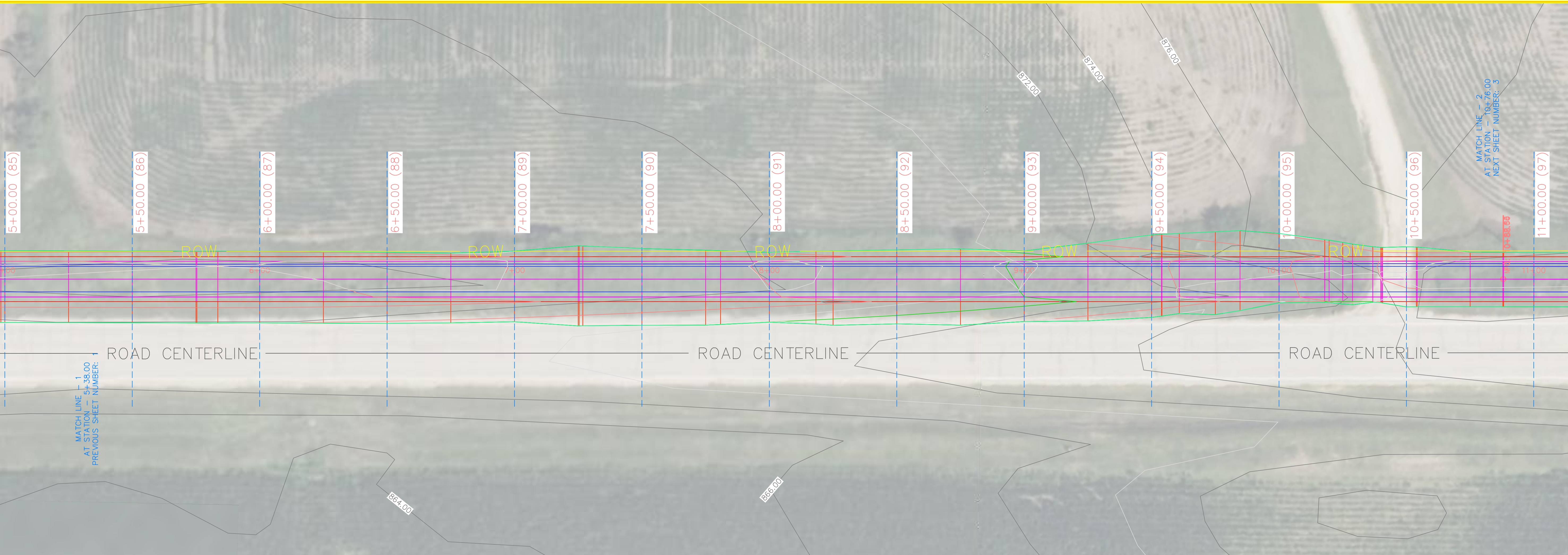
SHEET NAME
 190TH STREET
 PLAN & PROFILE

SHEET NO.
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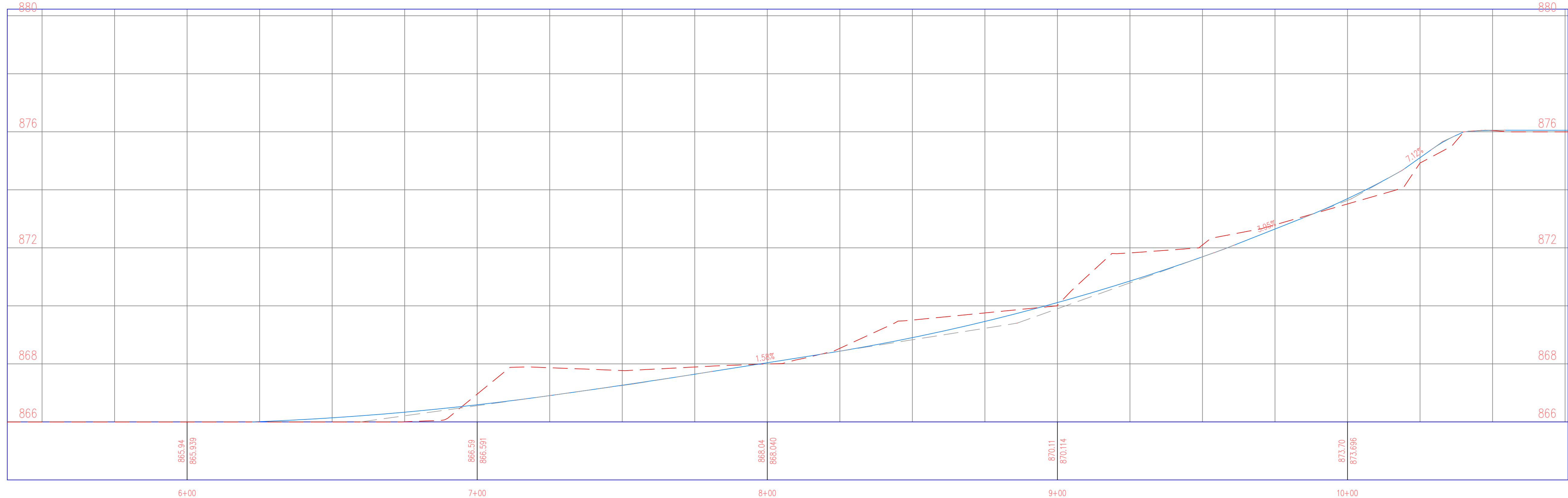


190TH P3 PROFILE





190TH P3 PROFILE



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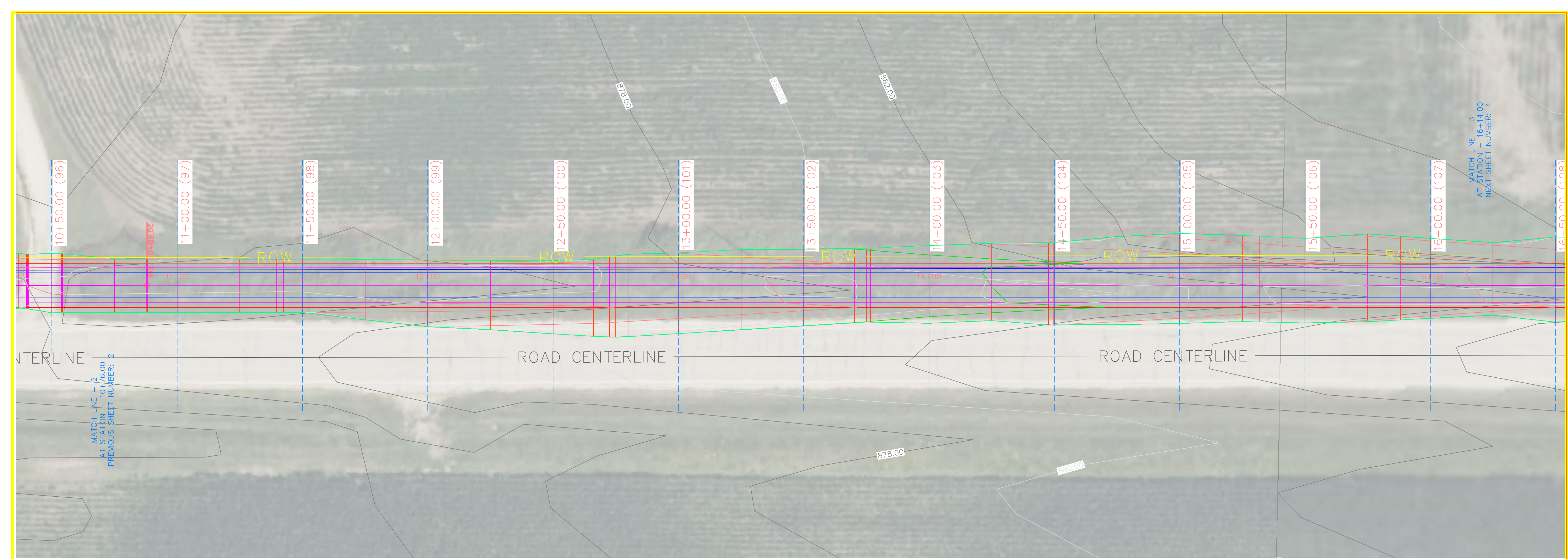


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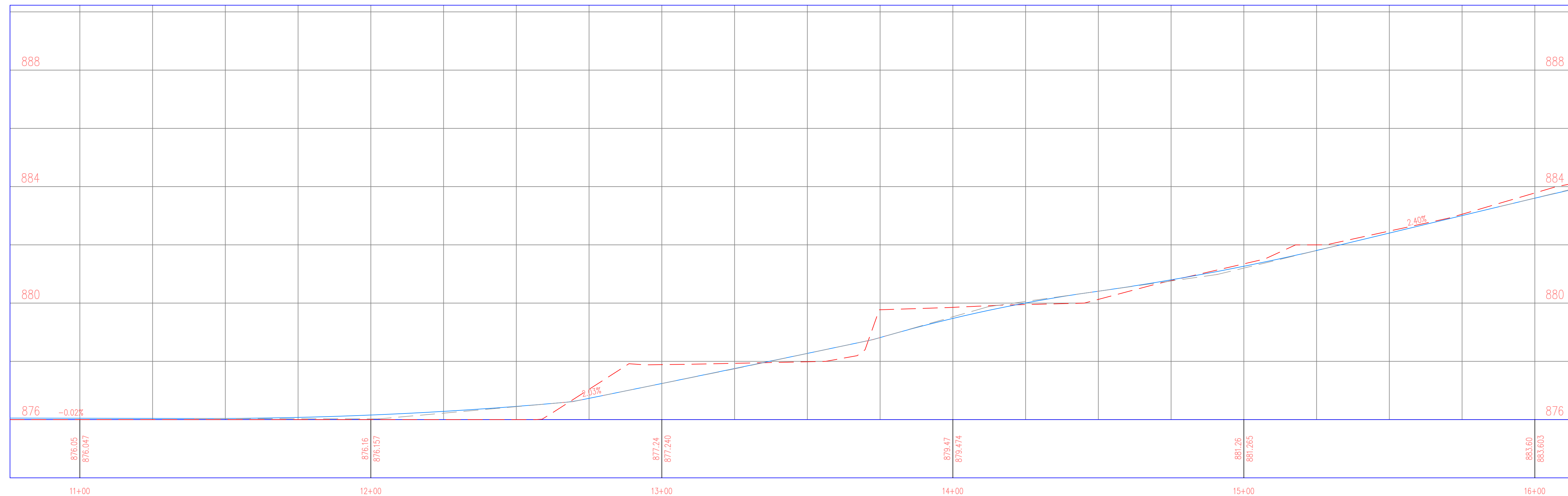
REGIONAL TRAIL
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SHEET NAME
190TH STREET
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57



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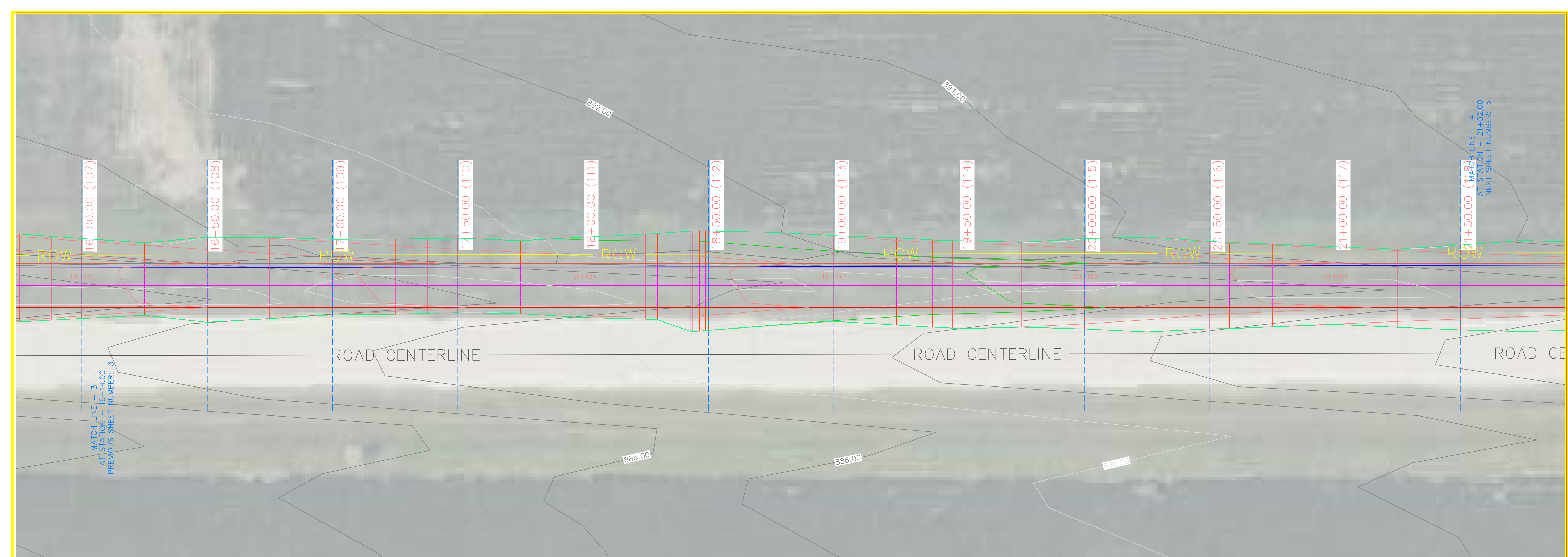


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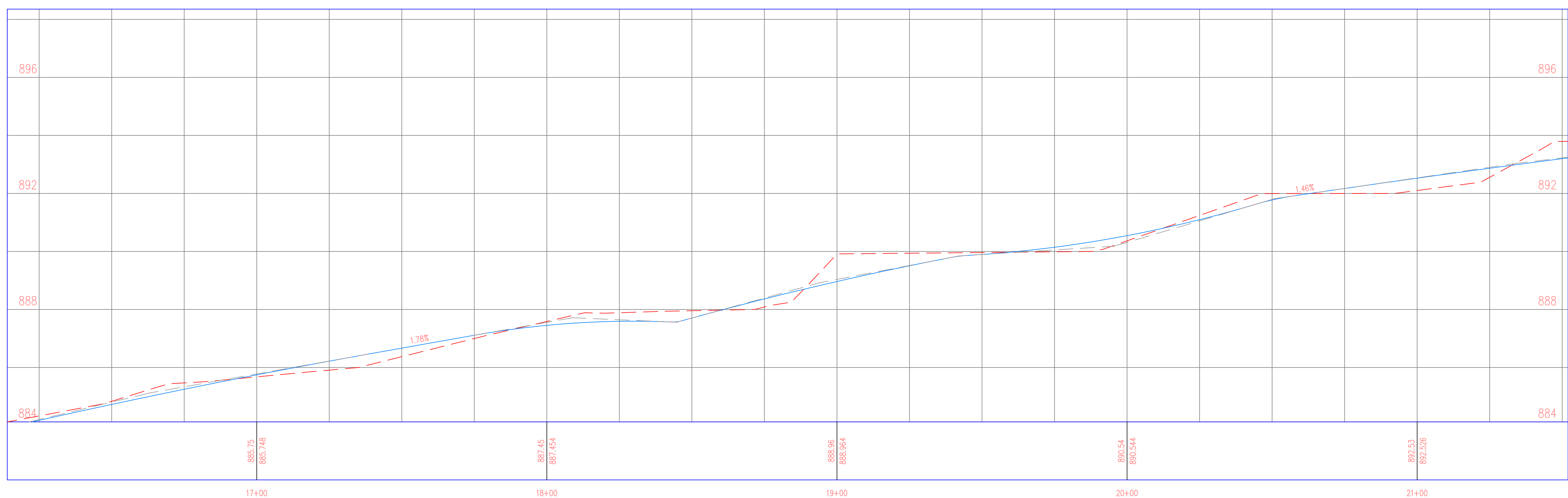
REGIONAL TRAIL
 SCOTCH GROVE, IA 52310

SHEET NAME
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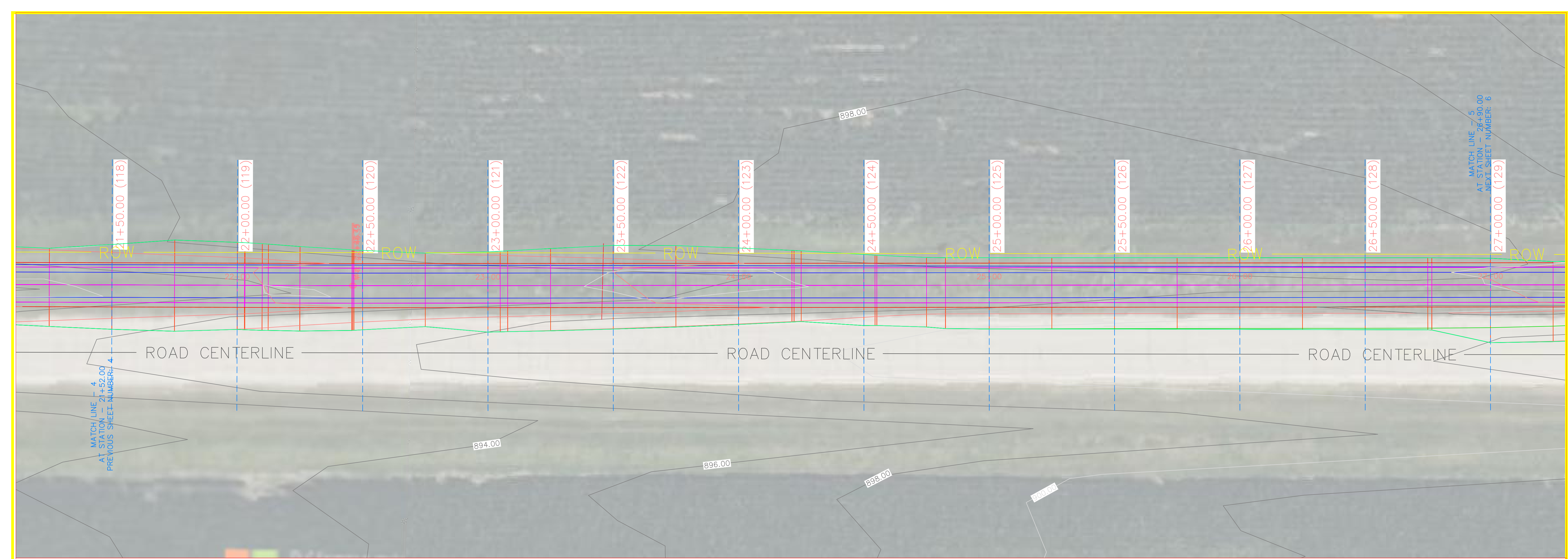


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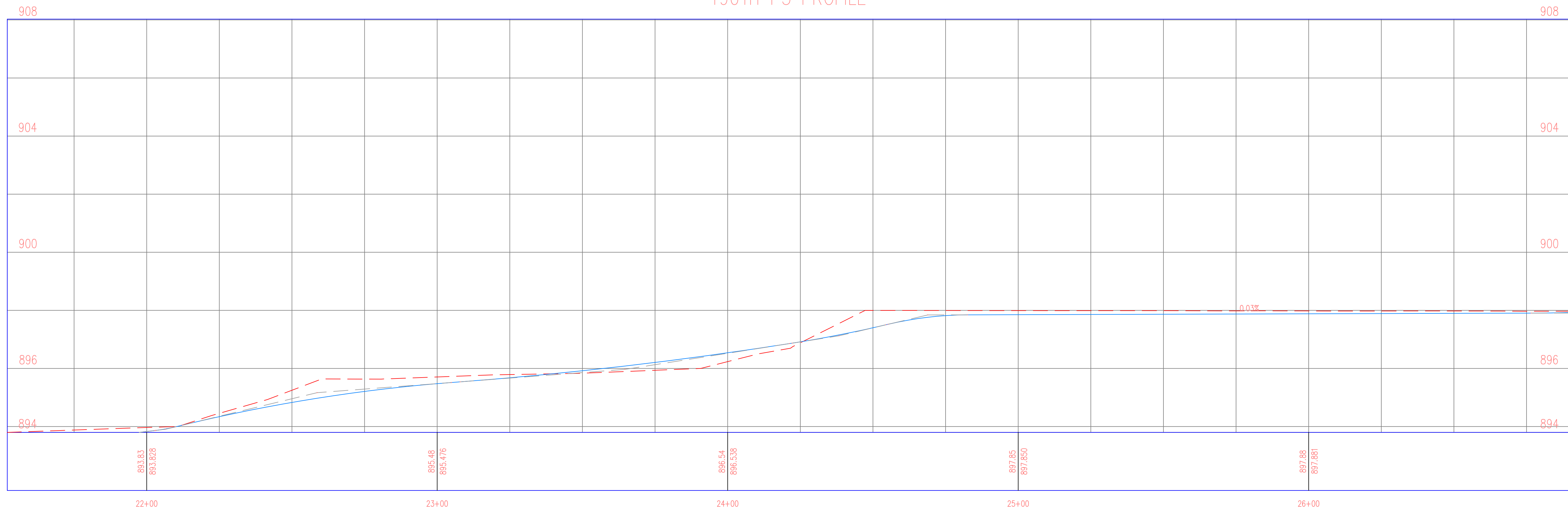
REGIONAL TRAIL
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SHEET NAME
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190TH P3 PROFILE



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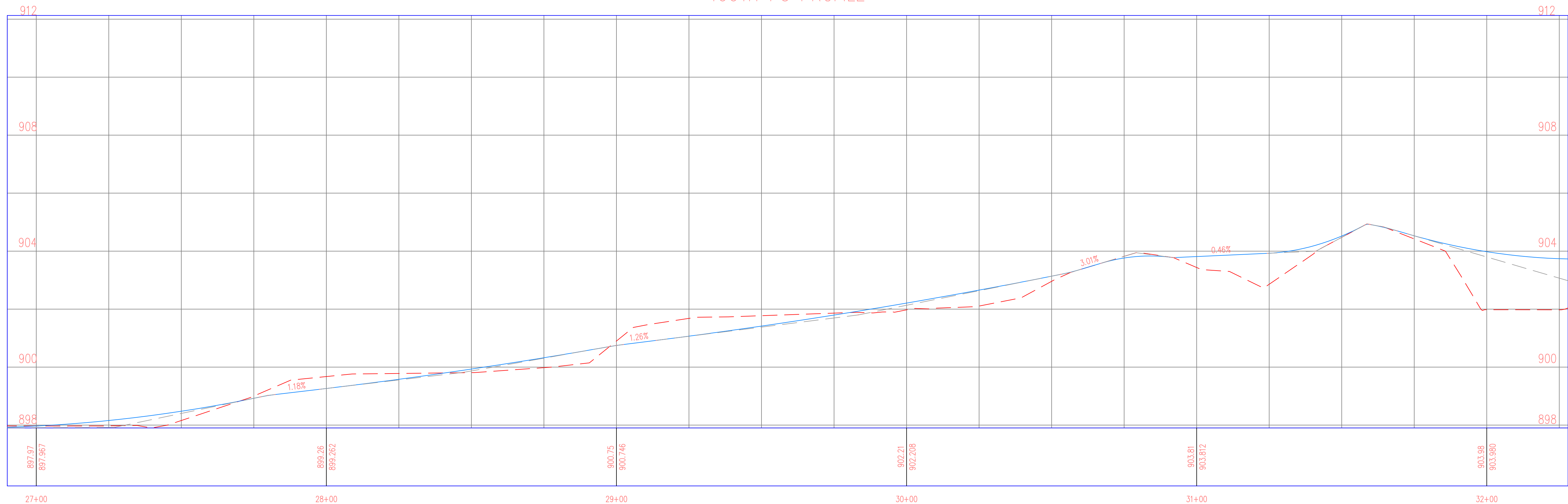
REGIONAL TRAIL
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SHEET NAME
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60



190TH P3 PROFILE



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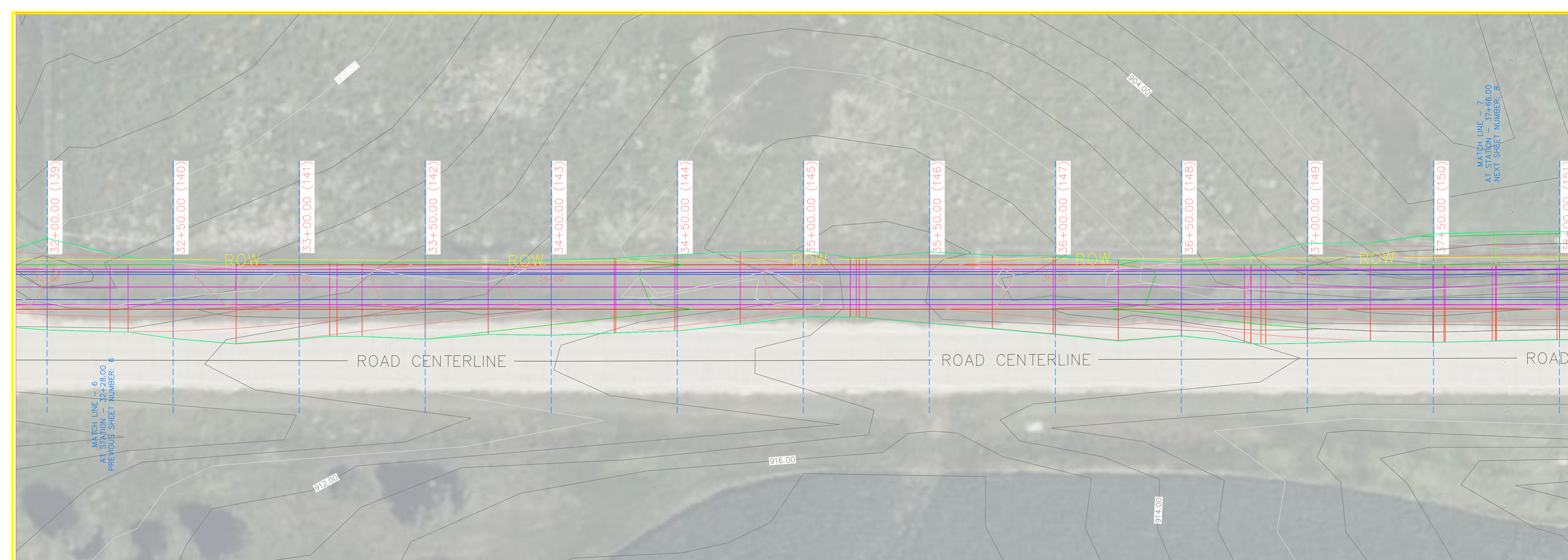


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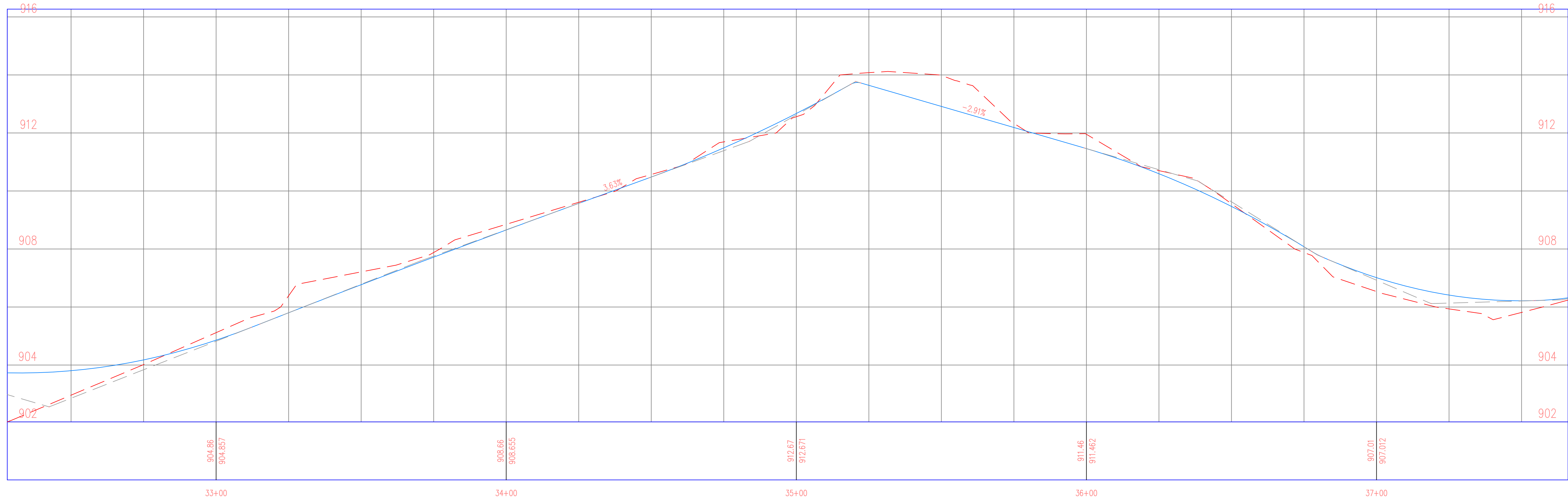
REGIONAL TRAIL
 SCOTCH GROVE, IA 52310

SHEET NAME
 190TH STREET
 PLAN & PROFILE

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61



190TH P3 PROFILE



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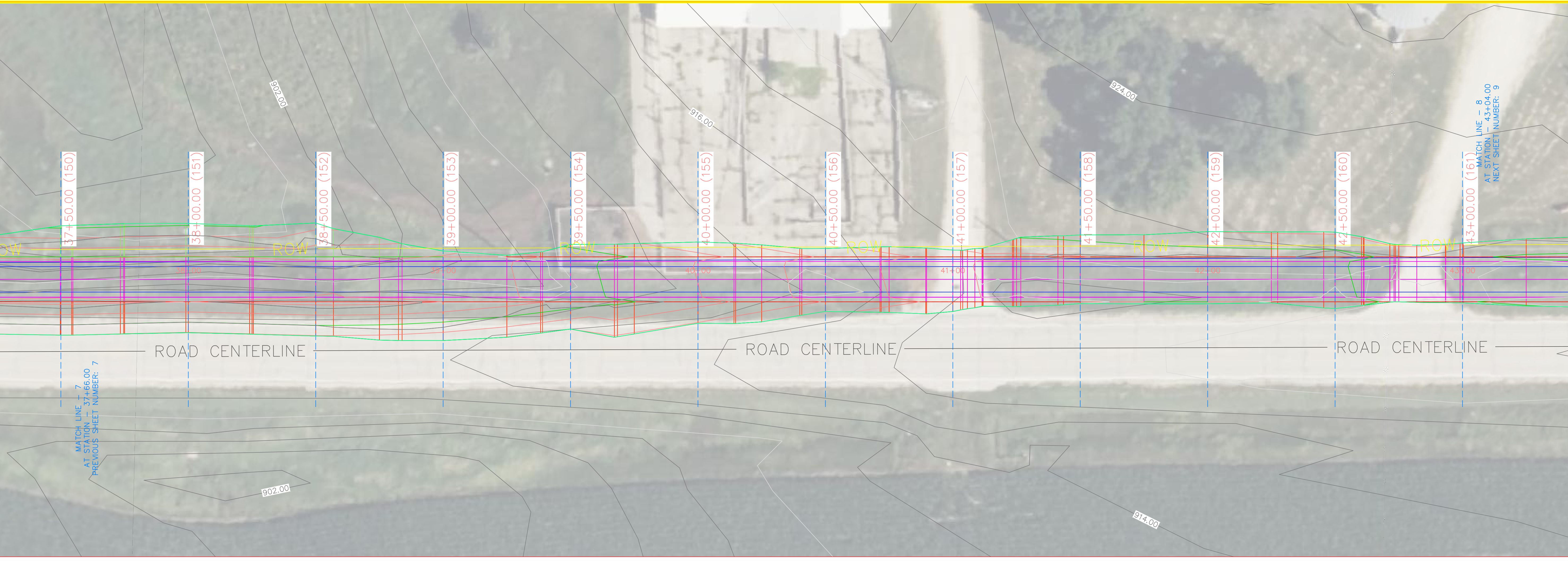


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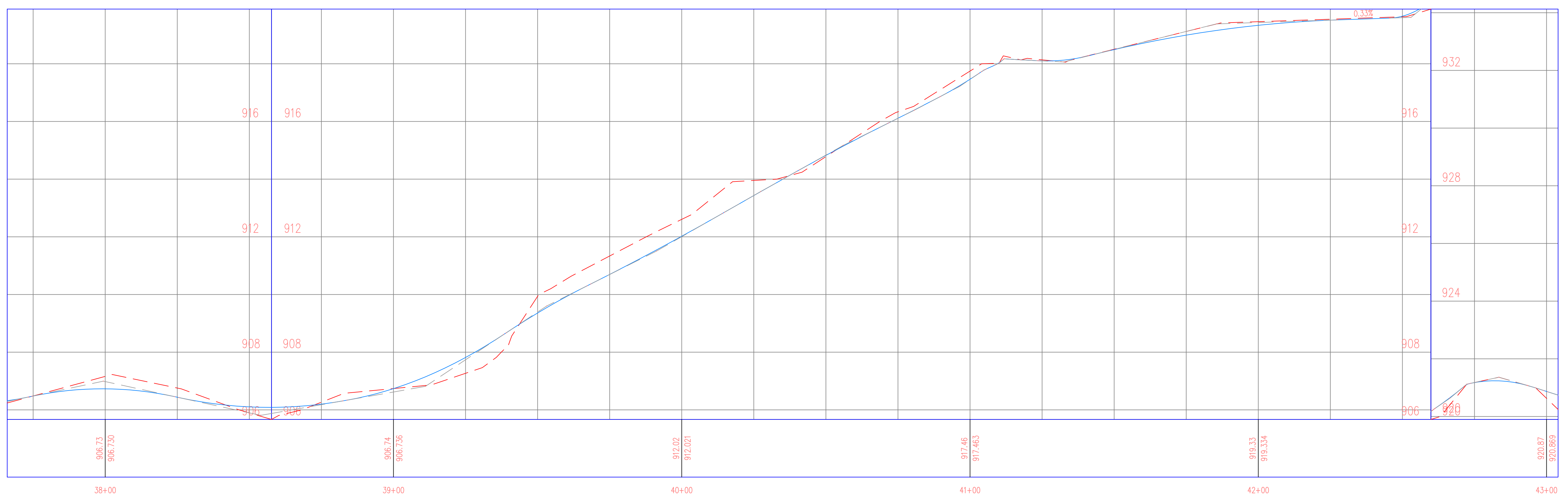
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 PLAN & PROFILE

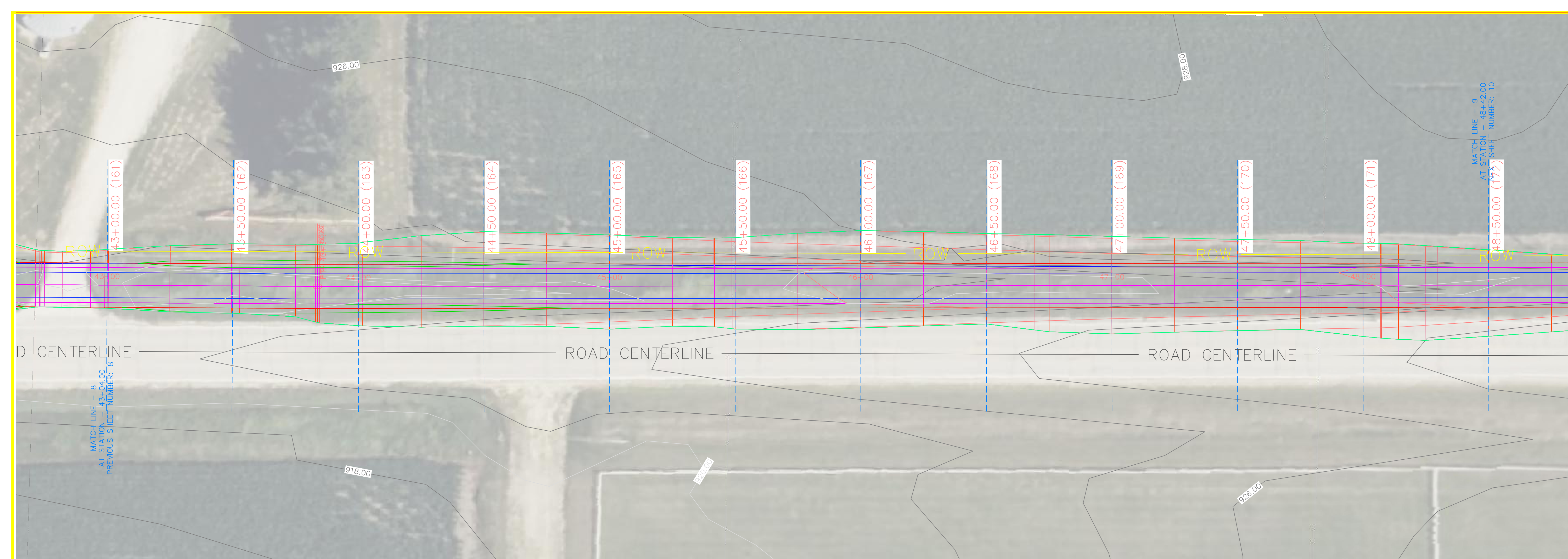
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63



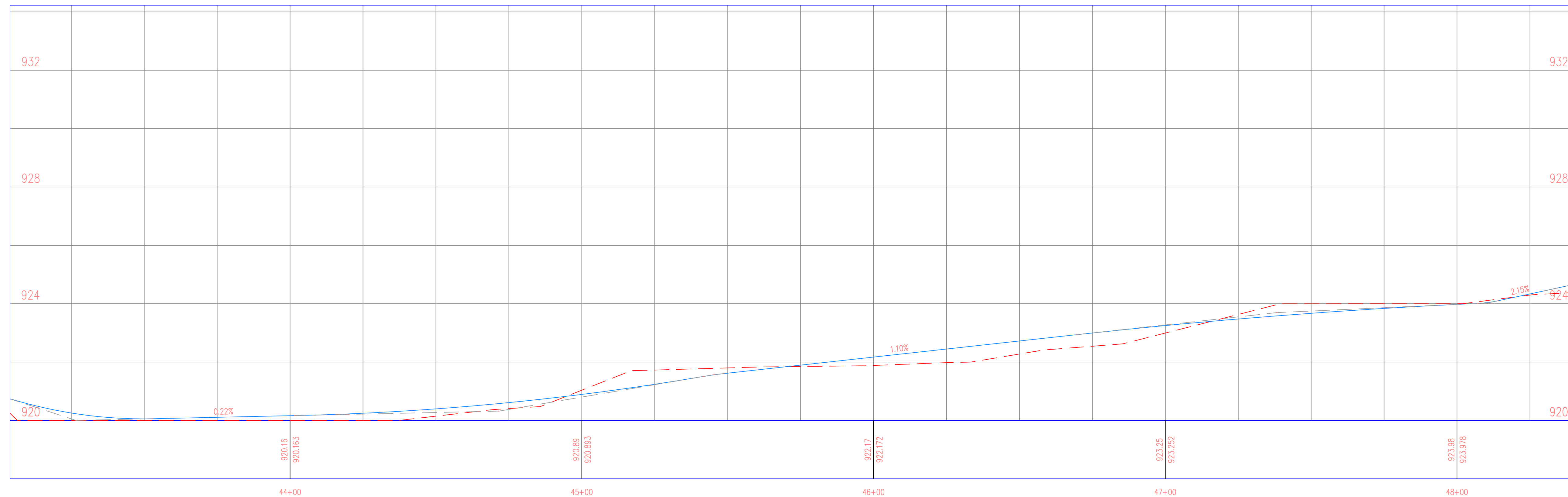
190TH P3 PROFILE

190TH P3 PROFILE





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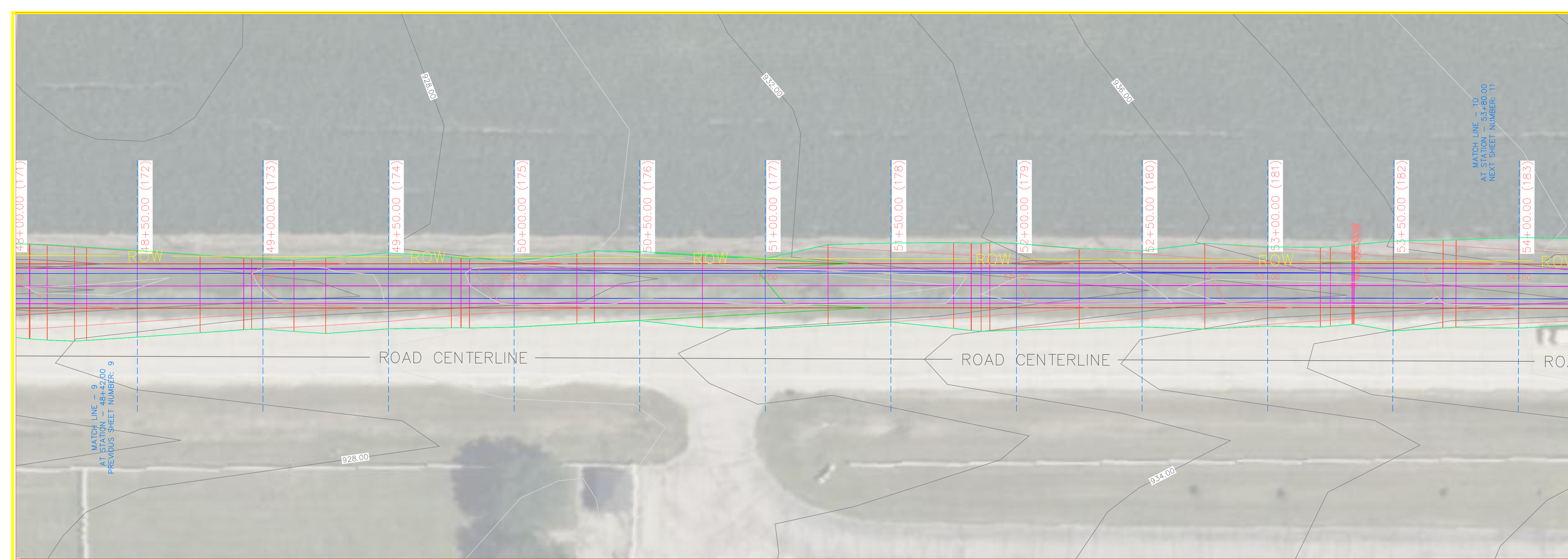


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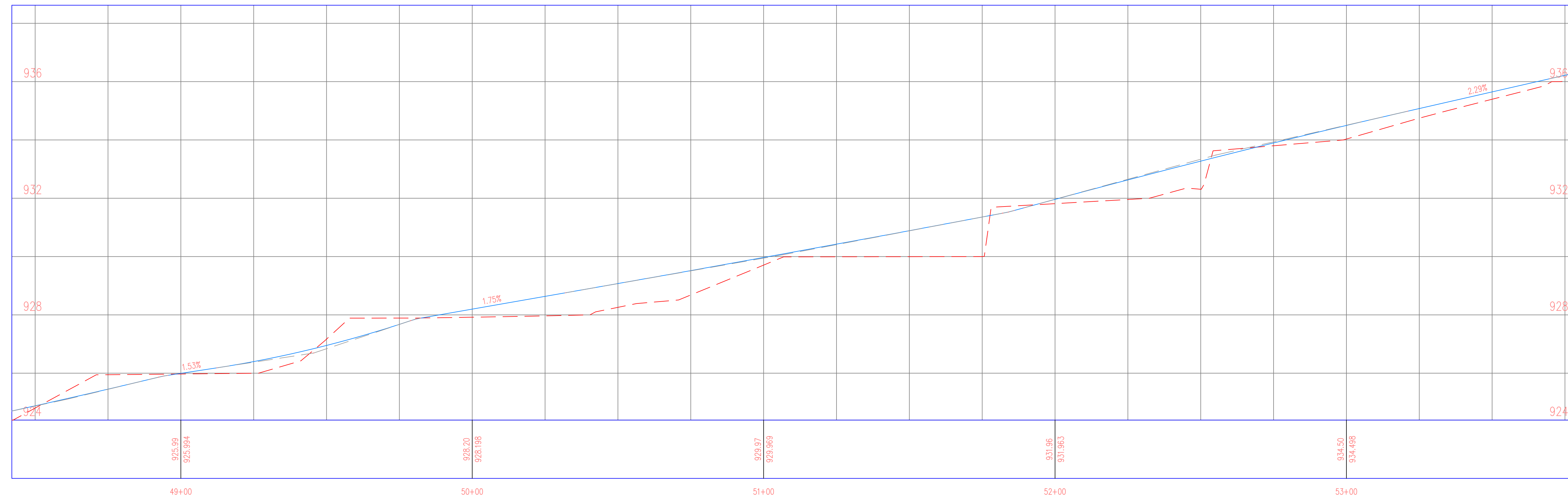
REGIONAL TRAIL
 SCOTCH GROVE, IA 52310

SHEET NAME
 190TH STREET
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64



190TH P3 PROFILE



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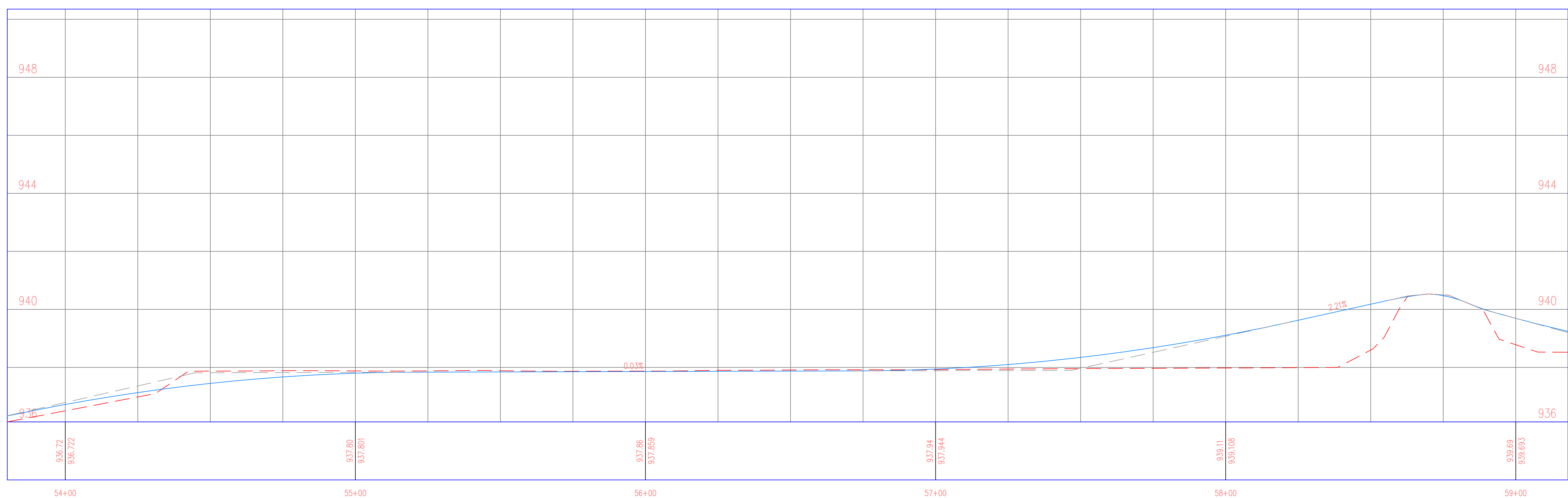
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SHEET NAME
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190TH P3 PROFILE



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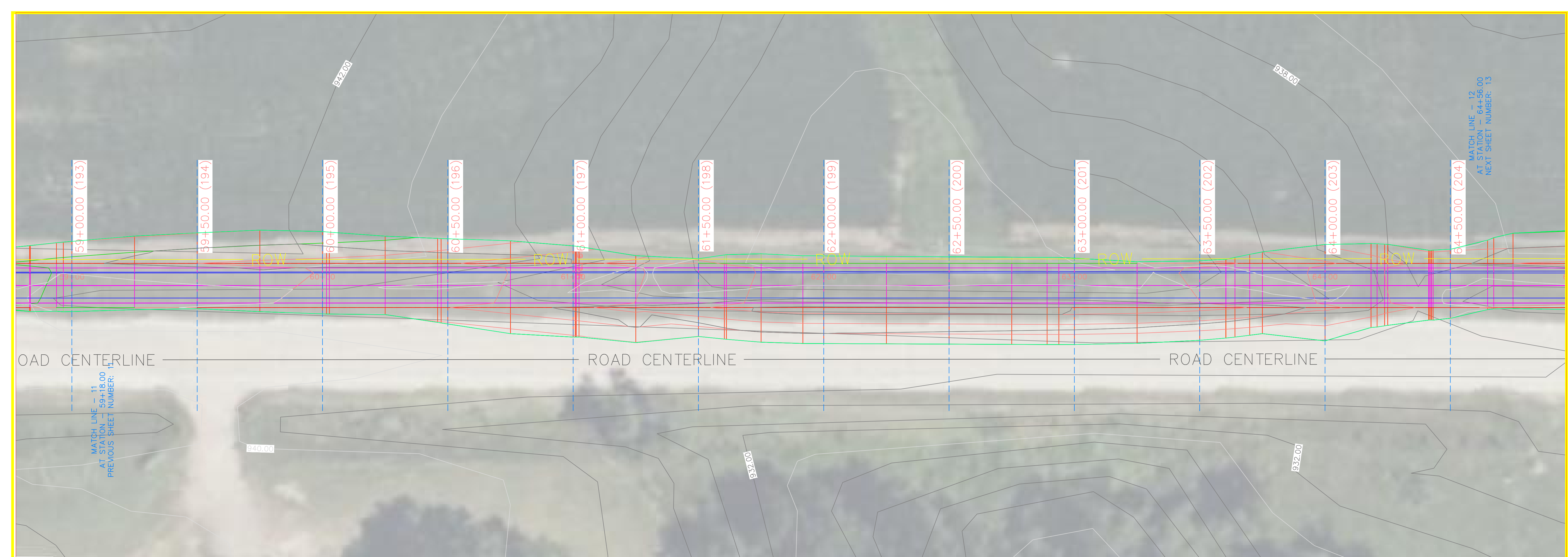
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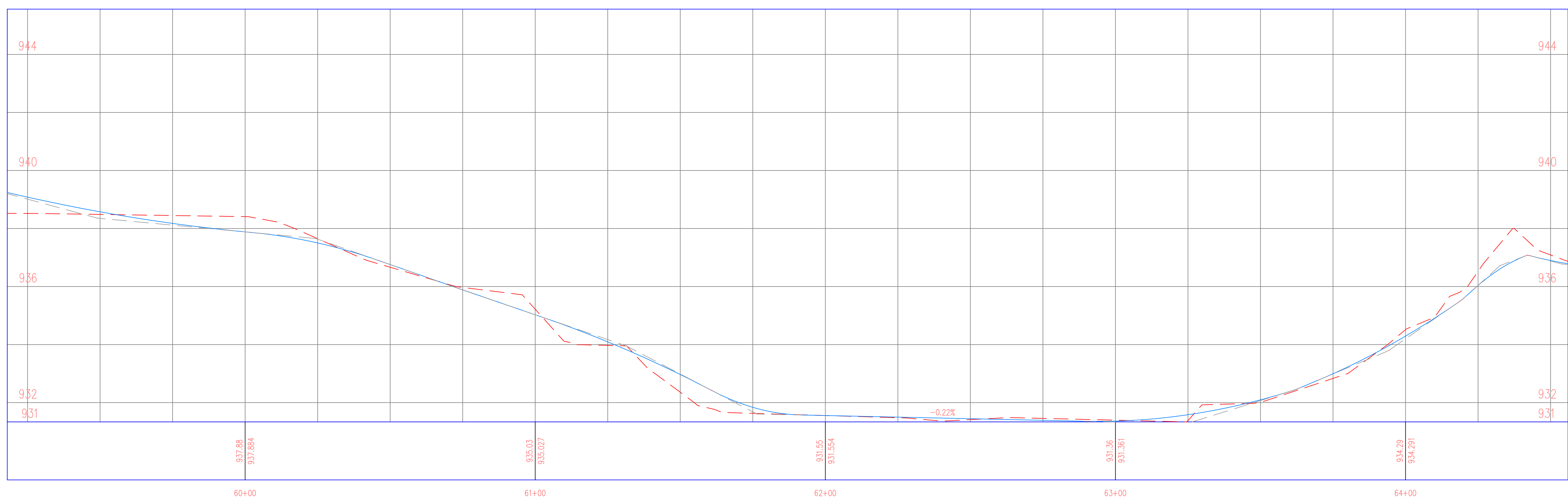
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 FAX: 319.335.5660
 EMAIL: civil-hawks@iowa.edu



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REGIONAL TRAIL
 SCOTCH GROVE, IA 52310

SHEET NAME
 190TH STREET
 PLAN & PROFILE

SHEET NO.
67

PROJECT: CEE: 4850
 DATE: 5/3/24
 DRAWN BY: SOLE MATES ENGINEERING
 REVISION:

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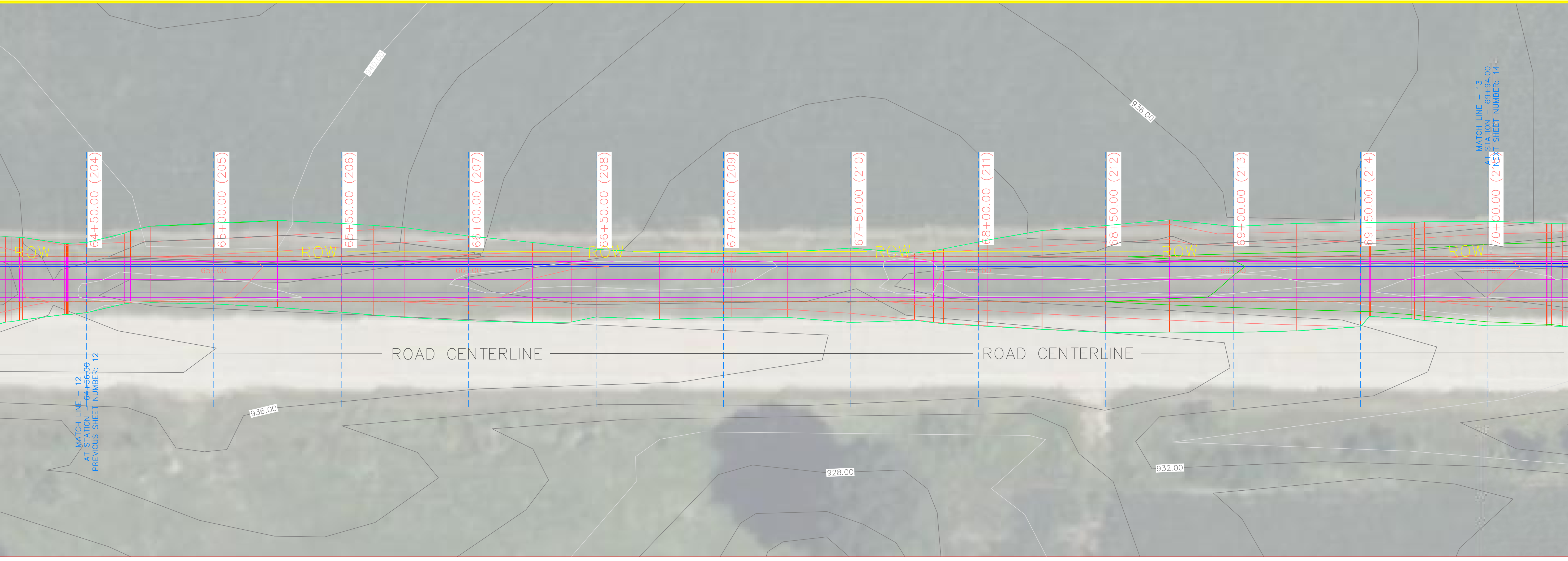


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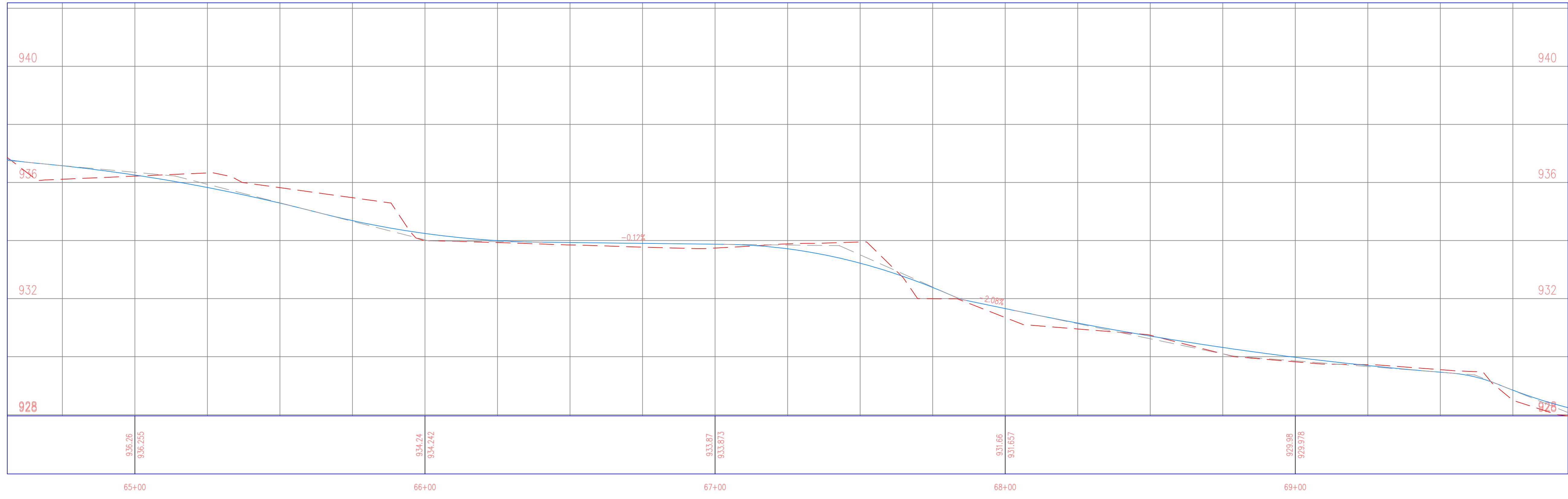
REGIONAL TRAIL
 SCOTCH GROVE, IA 52310

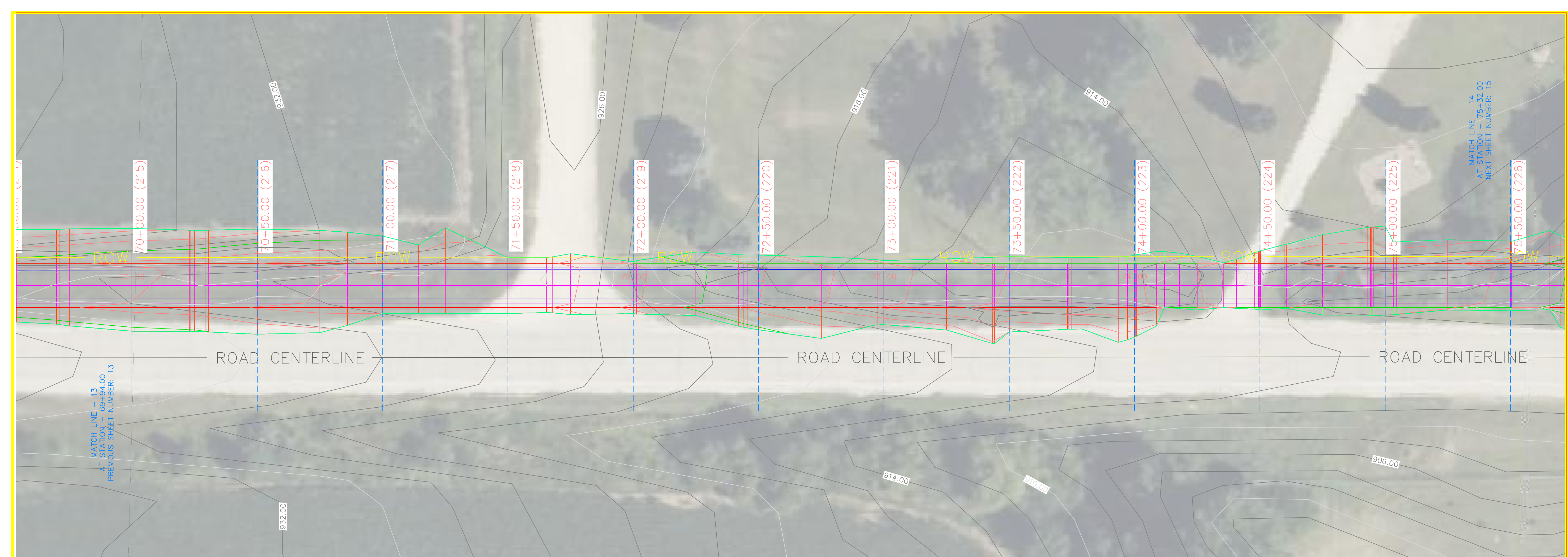
SHEET NAME
 190TH STREET
 PLAN & PROFILE

SHEET NO.
68



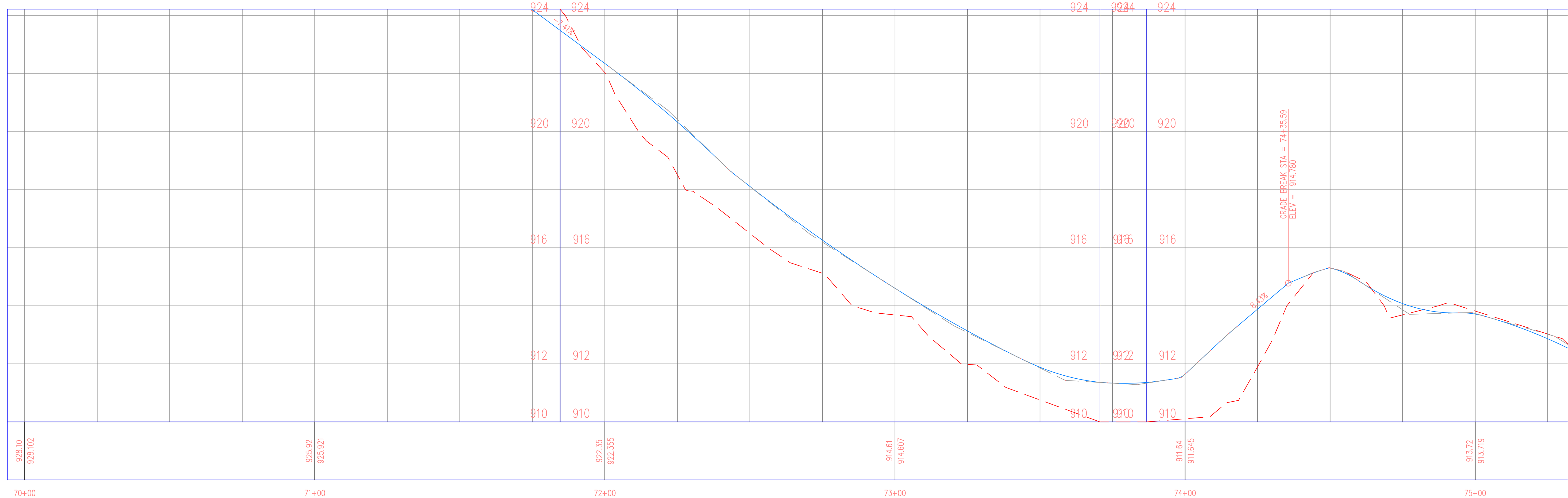
190TH P3 PROFILE





190TH P3 PROFILE

190TH P3 PROFILE



PROJECT: CEE: 4850
 DATE: 5/3/24
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REGIONAL TRAIL

SCOTCH GROVE, IA 52310

SHEET NAME
 190TH STREET
 PLAN & PROFILE

SHEET NO.
69

PROJECT: CEE: 4850
 DATE : 5/3/24
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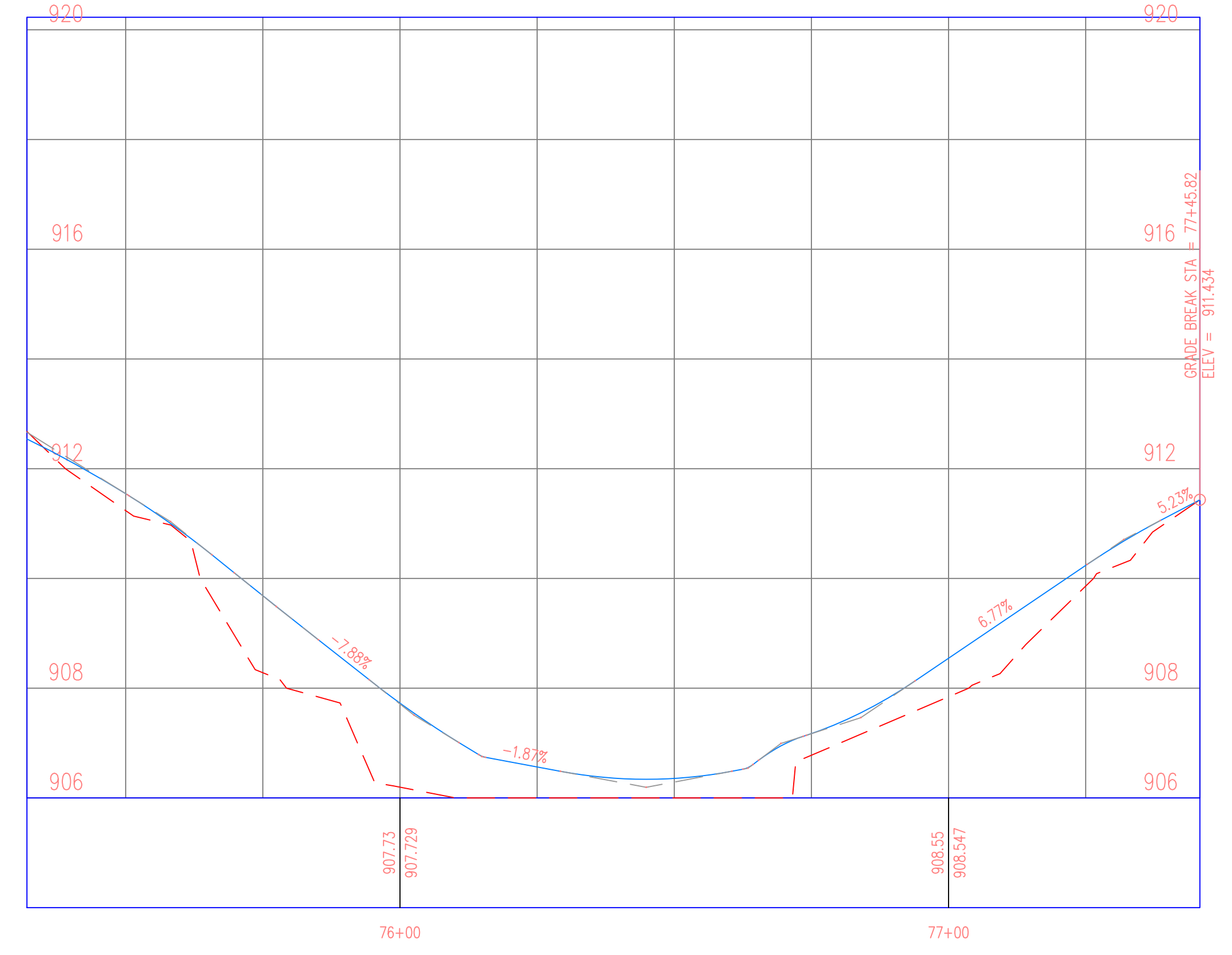
REGIONAL TRAIL
 SCOTCH GROVE, IA 52310

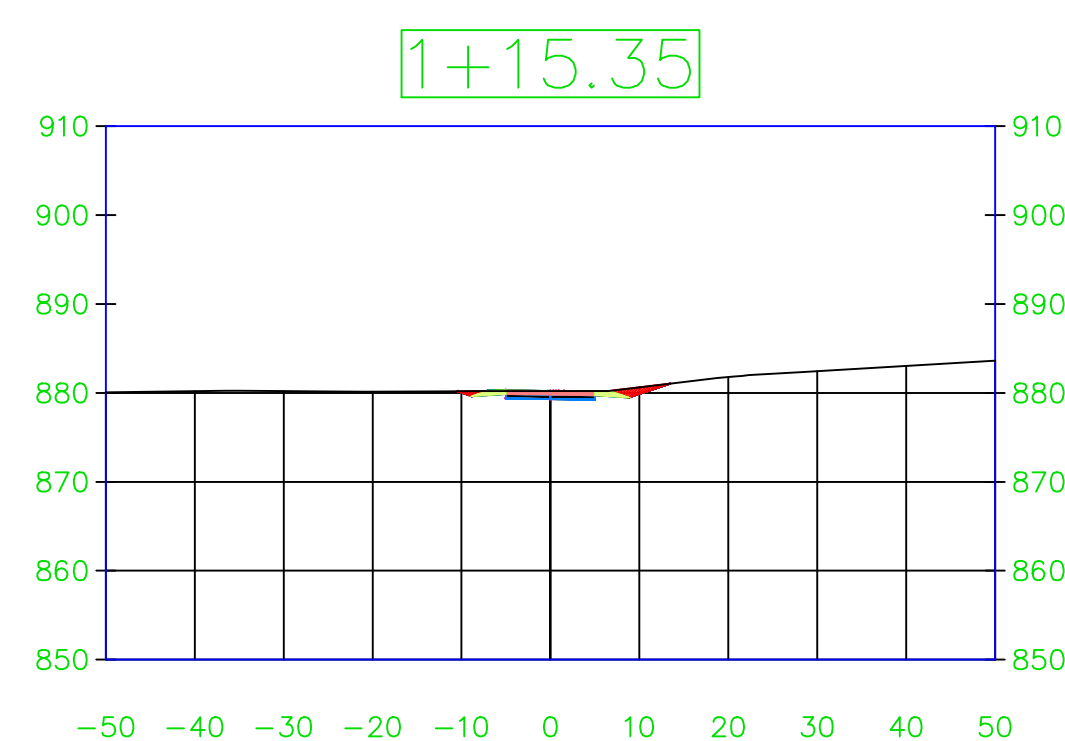
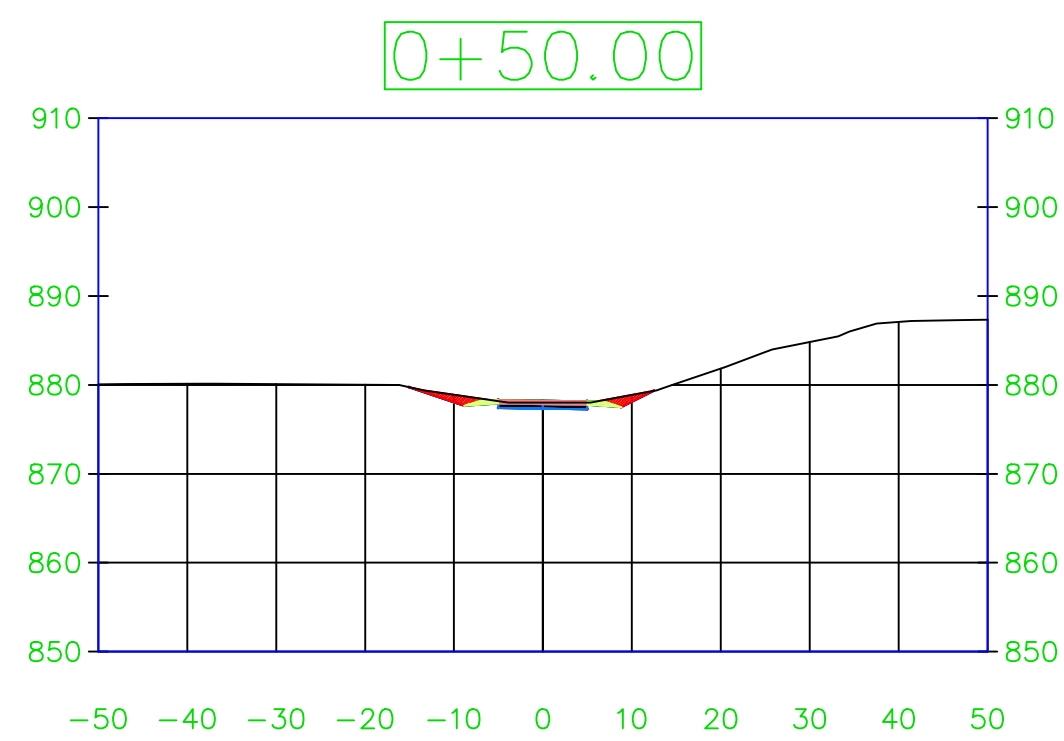
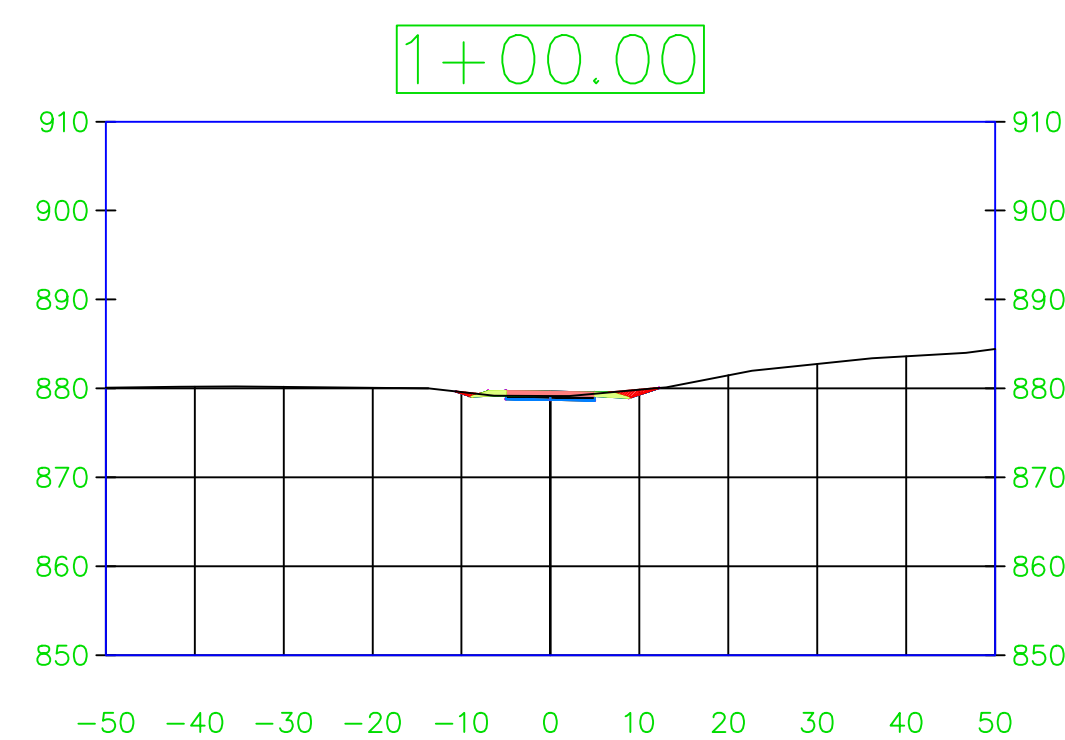
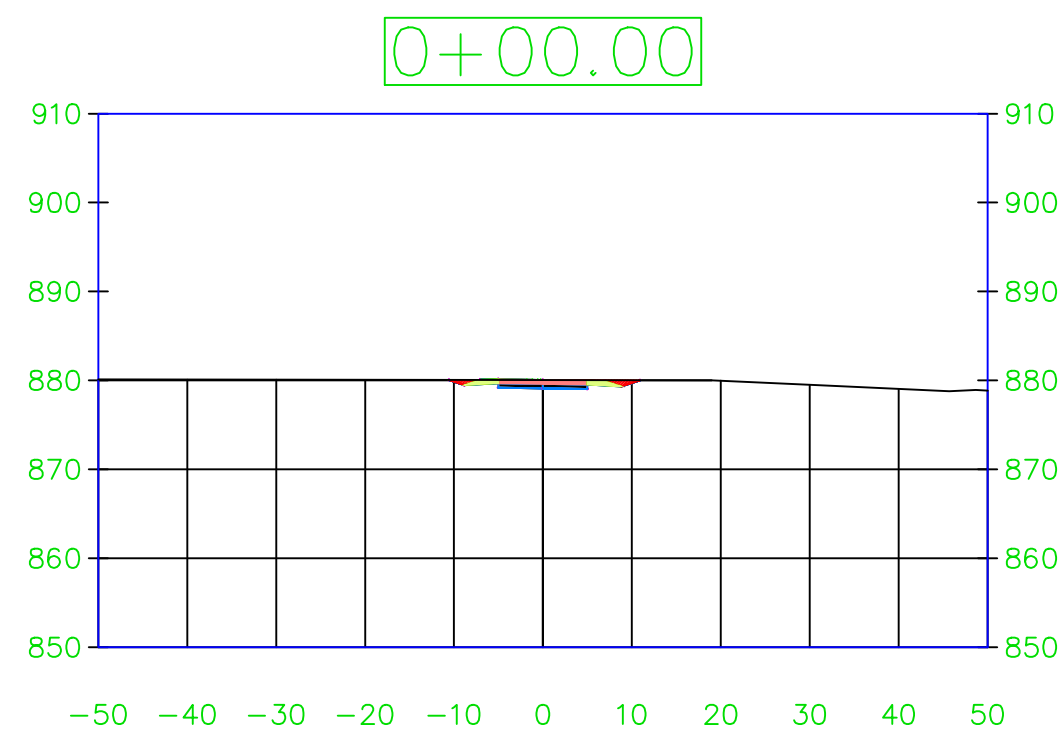
SHEET NAME
 190TH STREET
 PLAN & PROFILE

SHEET NO.
70



190TH P3 PROFILE





PROJECT: CEE: 4850
 DATE : 5/3/24
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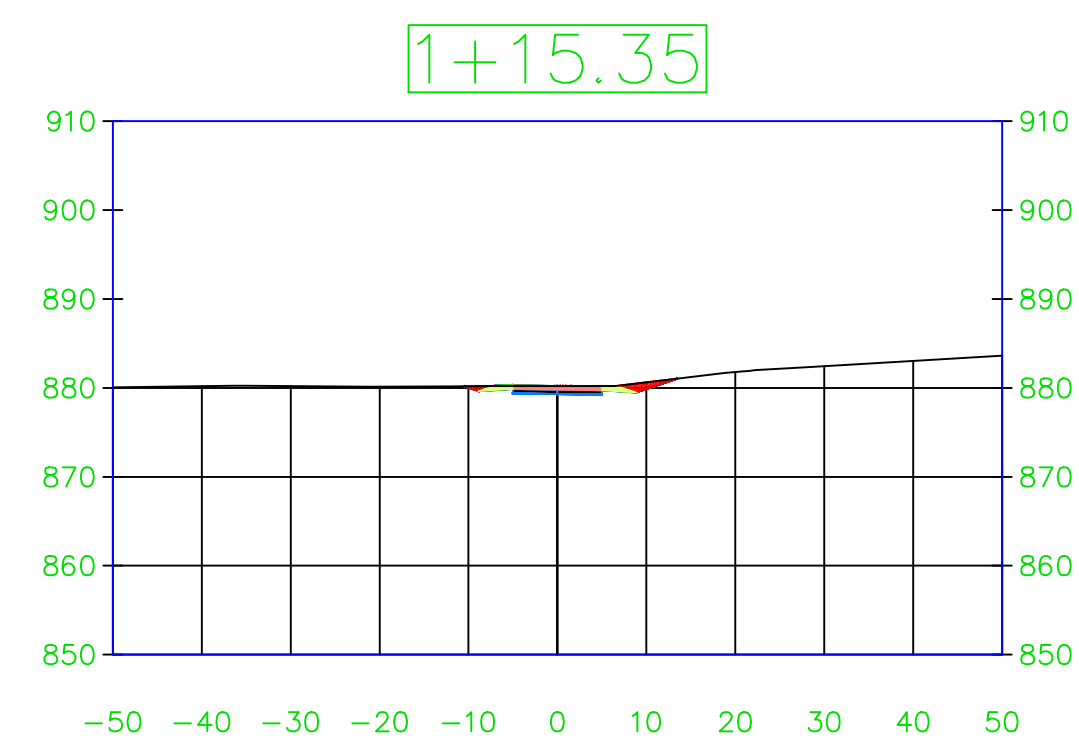
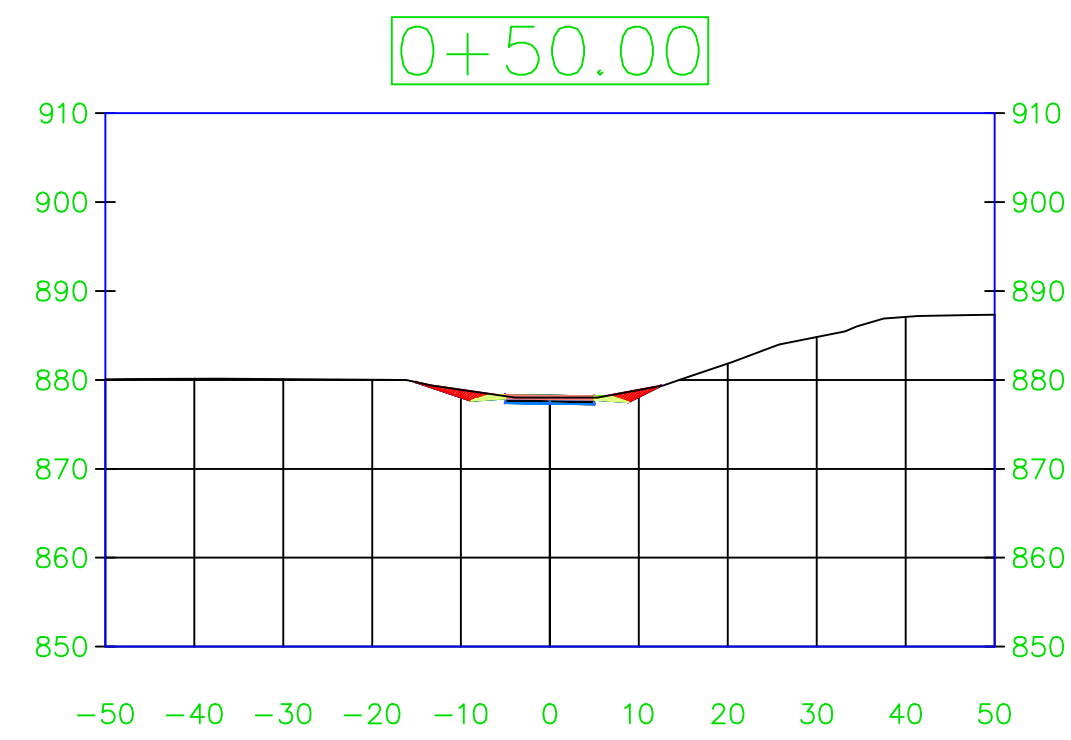
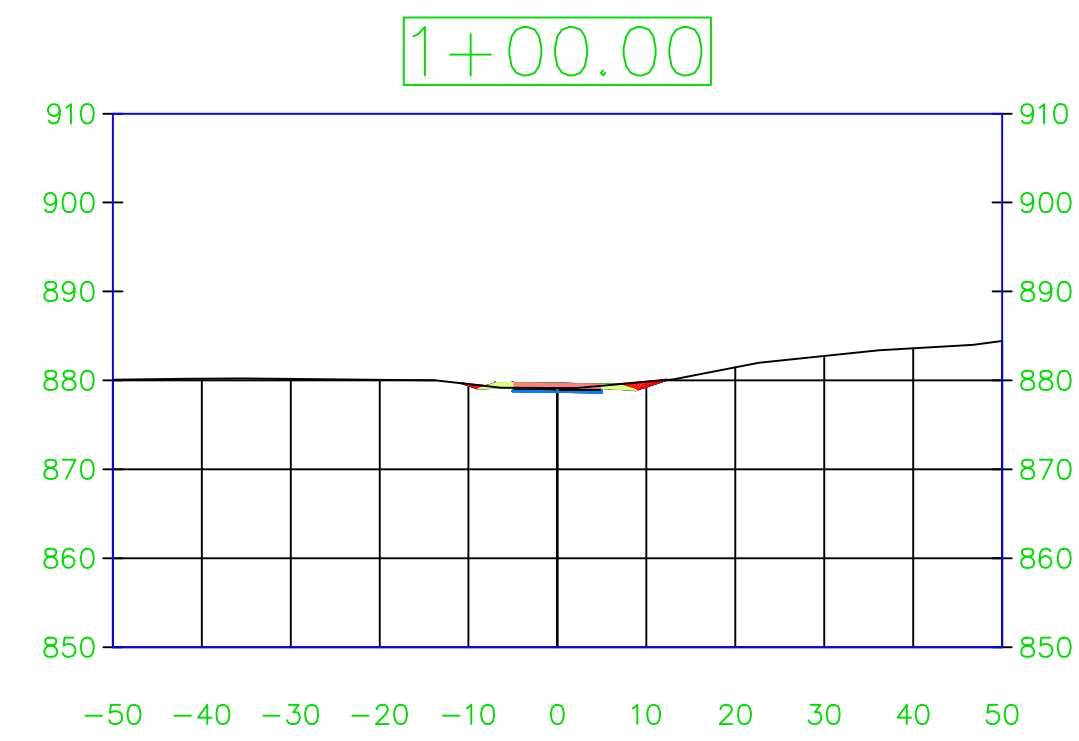
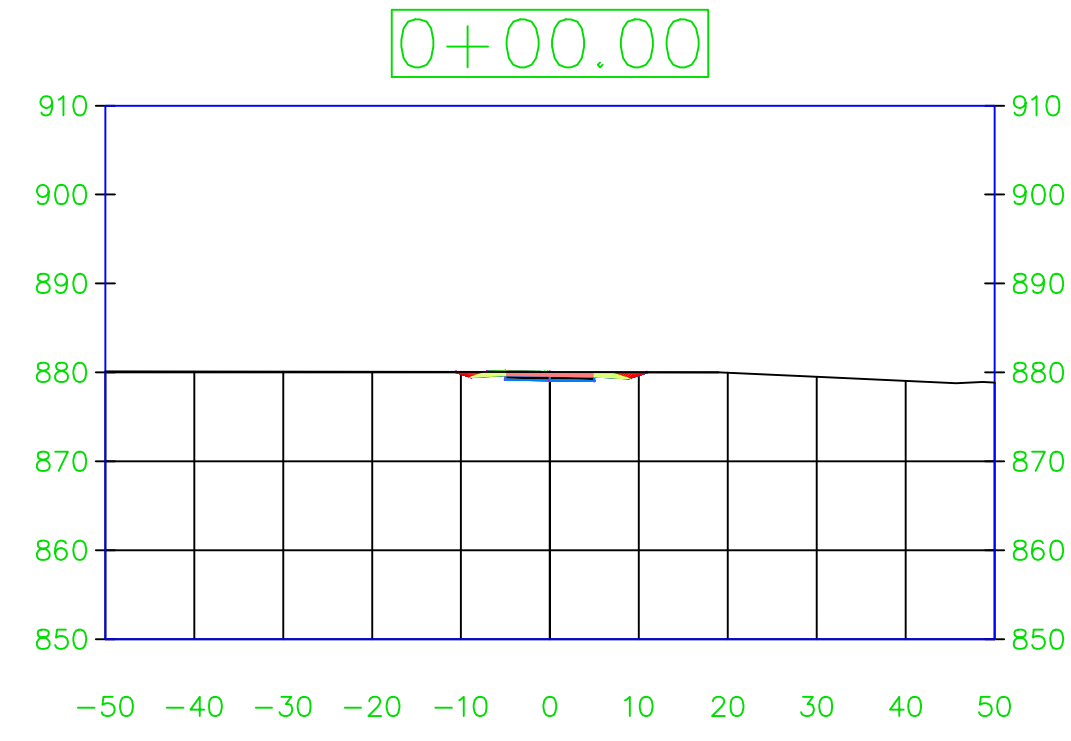


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REGIONAL TRAIL
 SCOTCH GROVE, IA 52310

SHEET NAME
 TRAILHEAD TIE-IN
 CROSS SECTIONS

SHEET NO.
71



PROJECT: CEE: 4850
 DATE : 5/3/24
 DRAWN BY: SOLE MATES ENGINEERING
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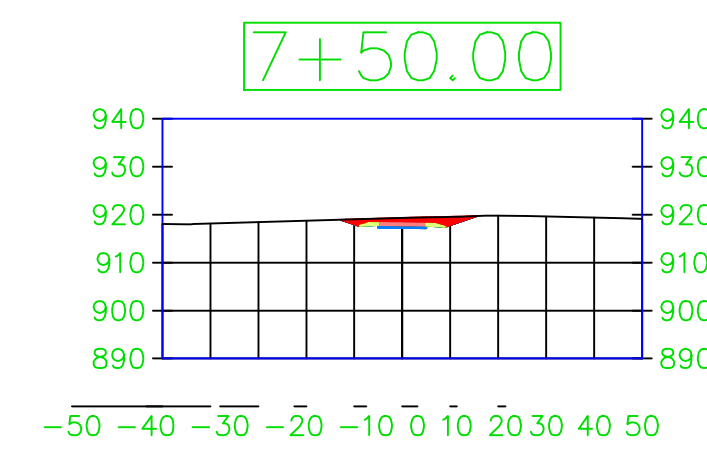
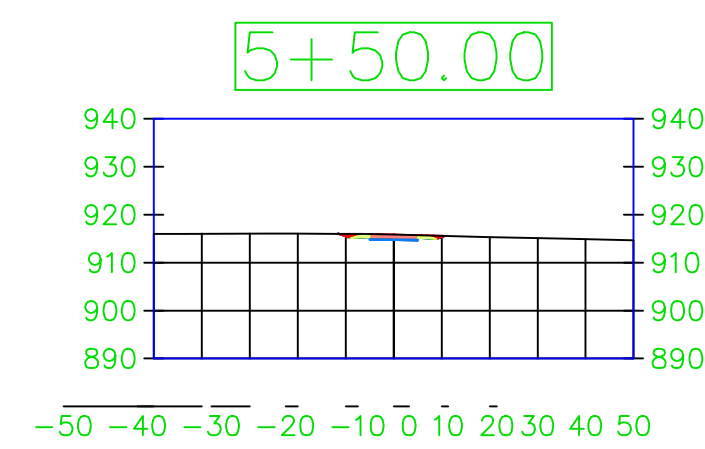
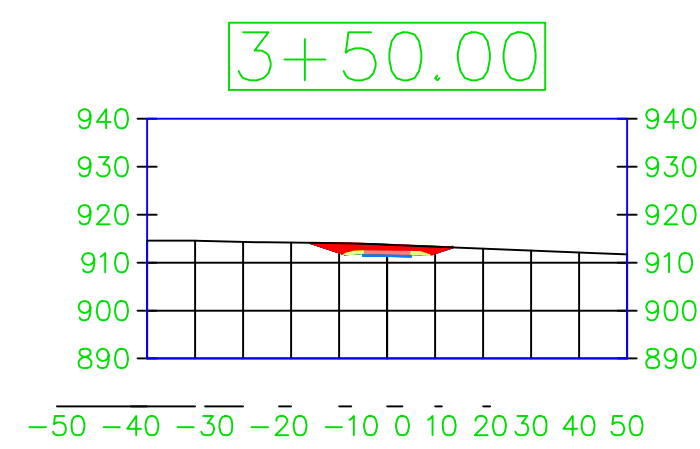
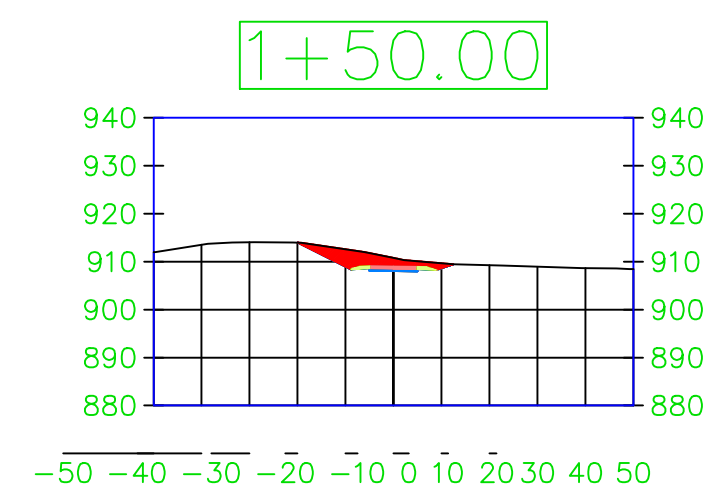
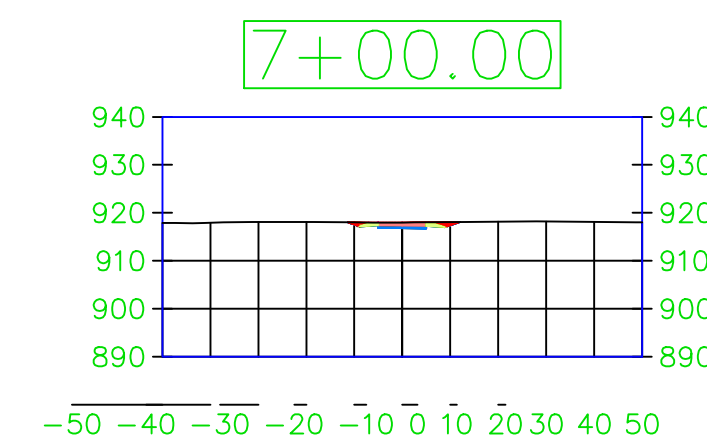
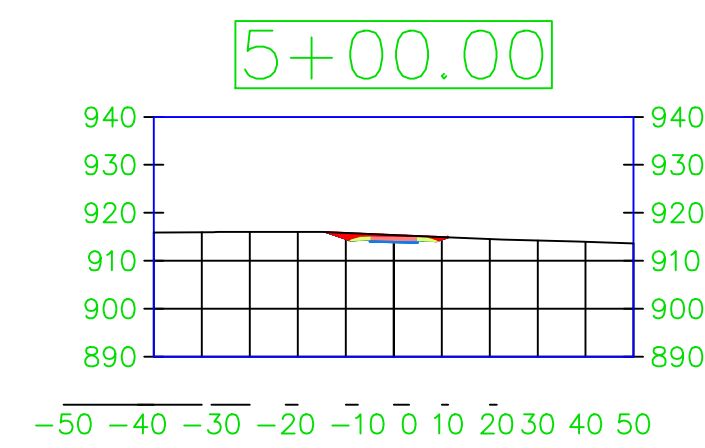
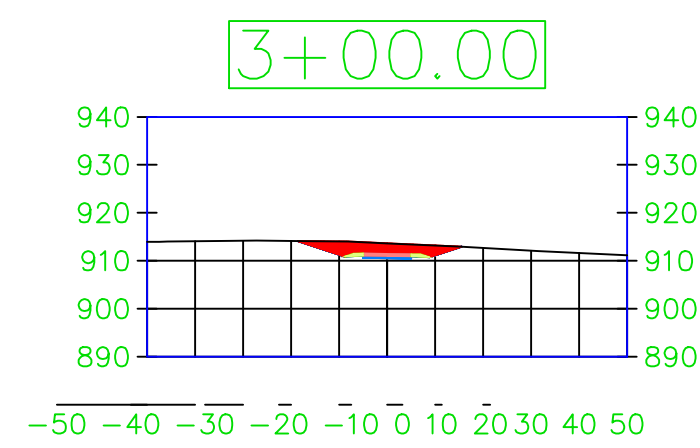
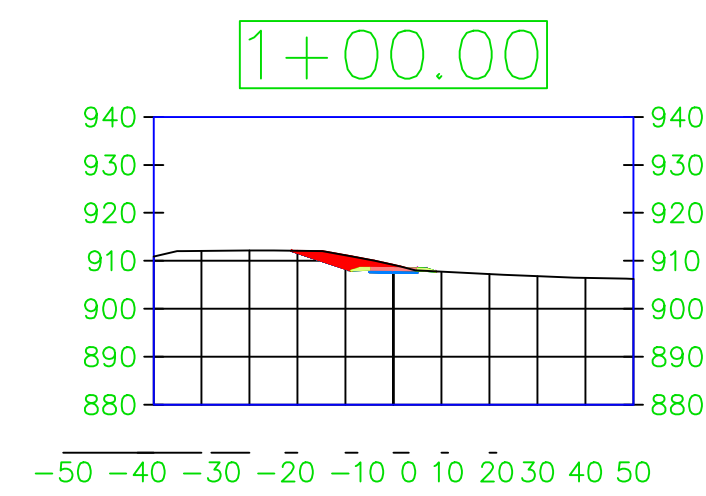
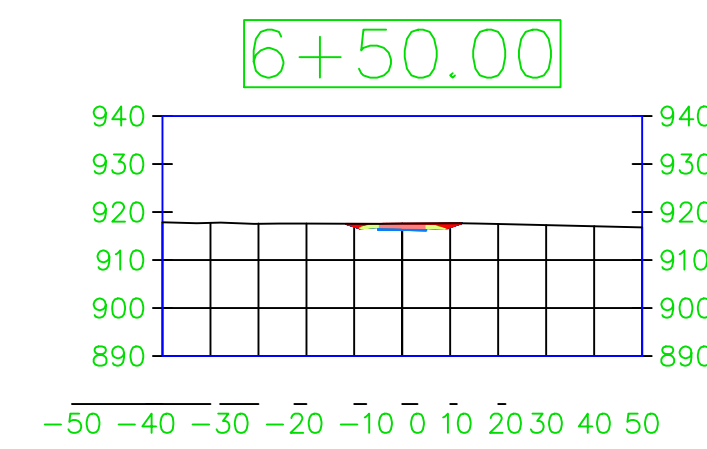
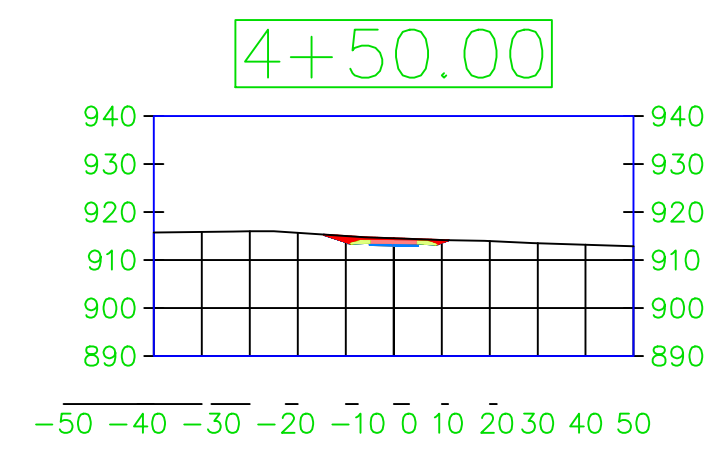
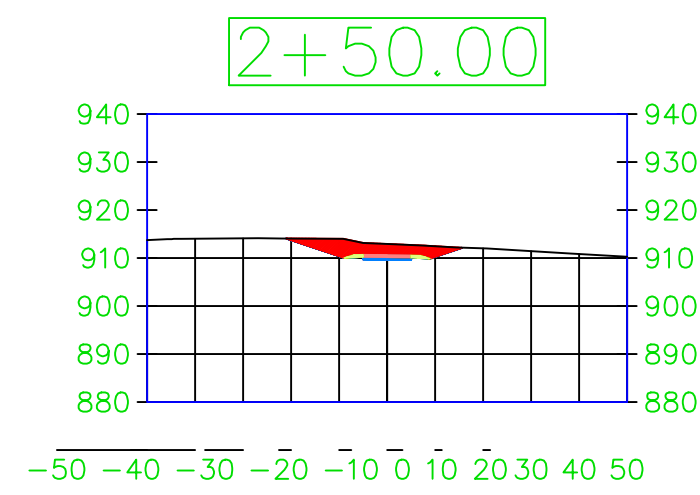
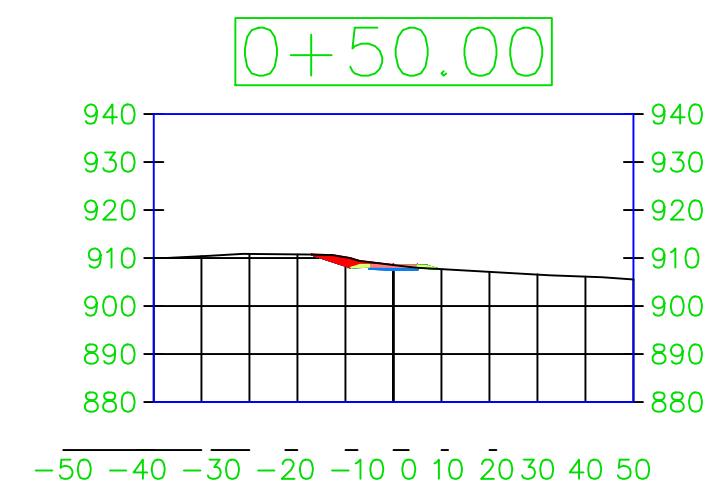
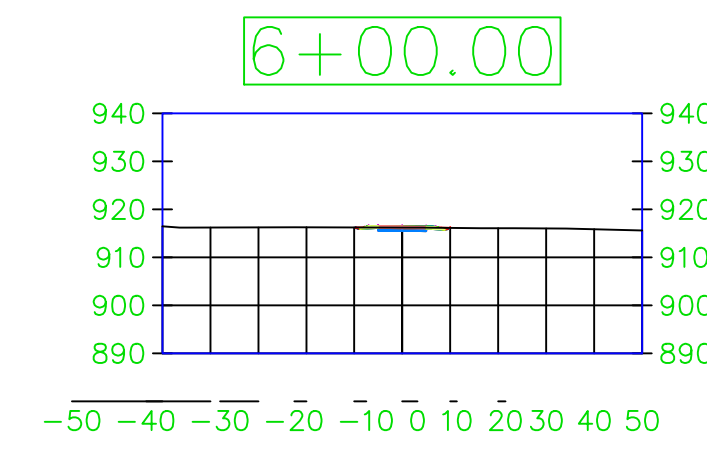
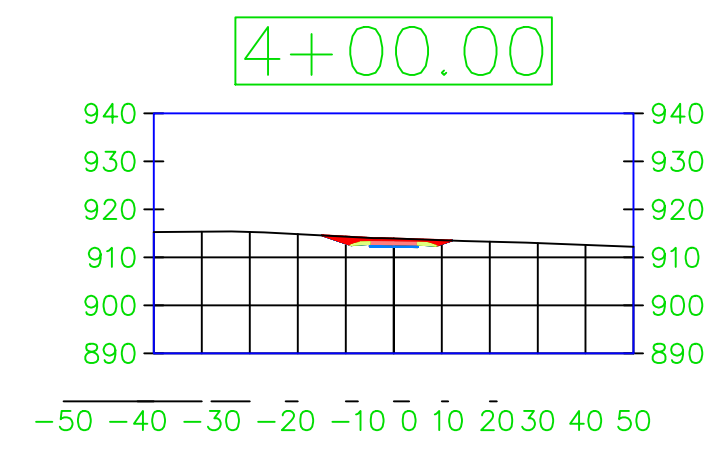
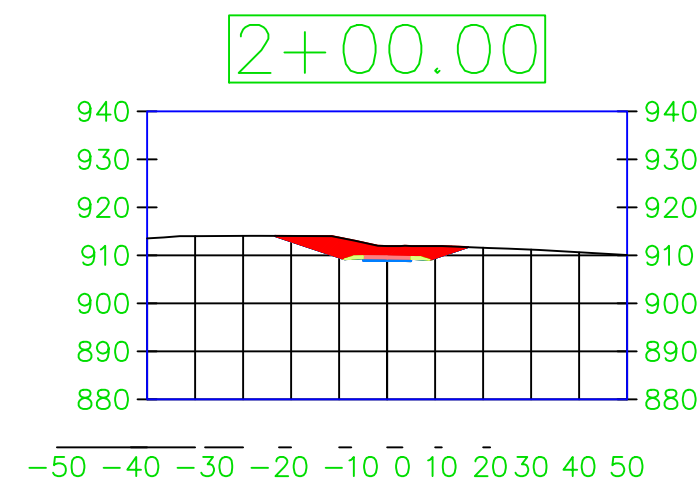
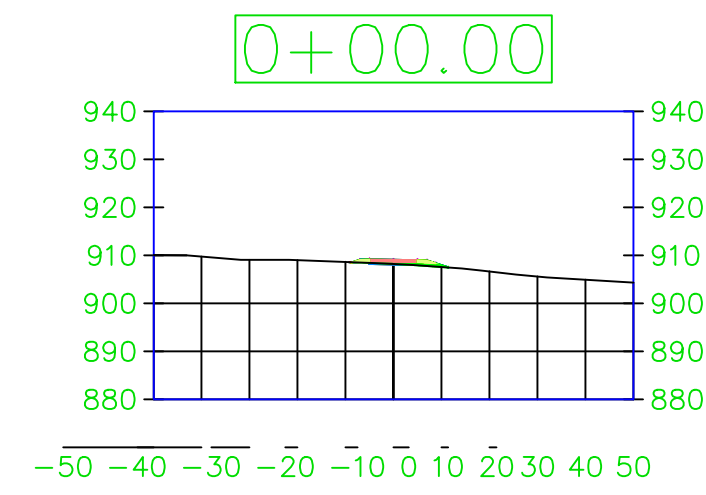


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REGIONAL TRAIL
 SCOTCH GROVE, IA 52310

SHEET NAME
 TRAILHEAD TIE-IN
 CROSS SECTIONS

SHEET NO.
71



PROJECT: CEE: 4850

DATE : 5/3/24

DRAWN BY: SOLE MATES ENGINEERING

REVISION:

THE UNIVERSITY OF IOWA
CIVIL AND ENVIRONMENTAL ENGINEERING

4105 SEAMANS CENTER FOR THE
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REGIONAL TRAIL

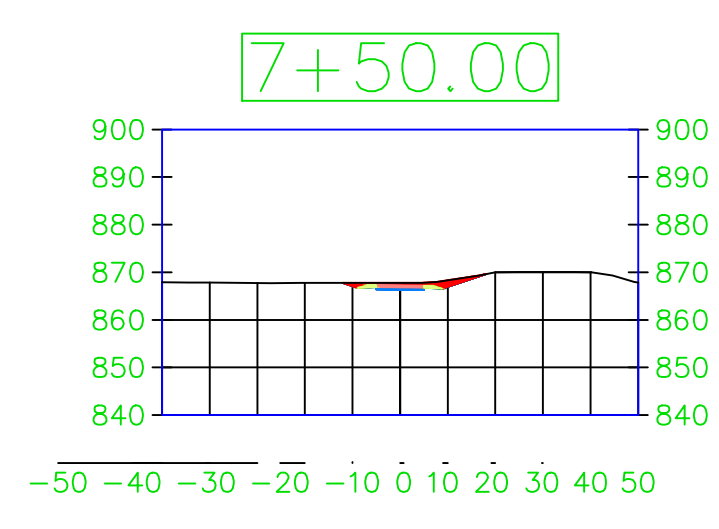
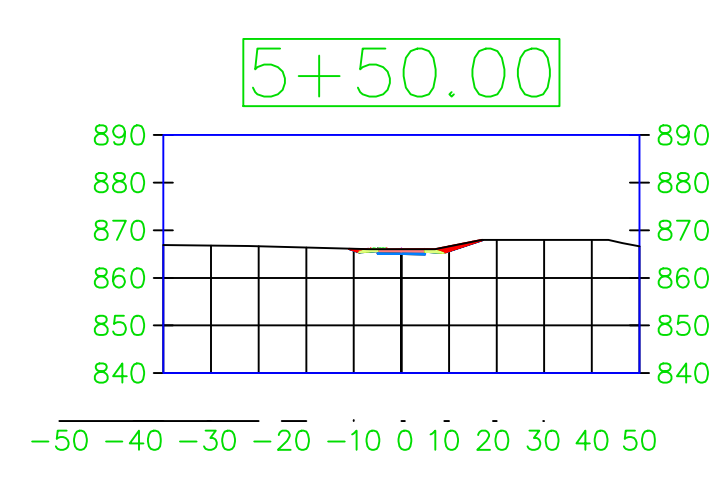
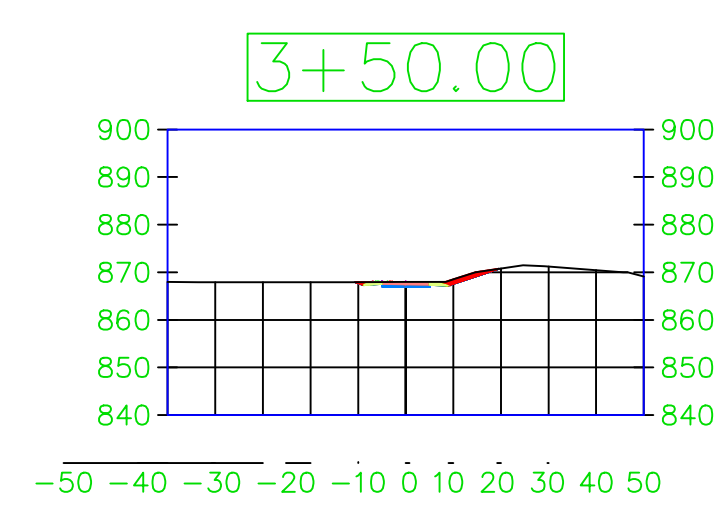
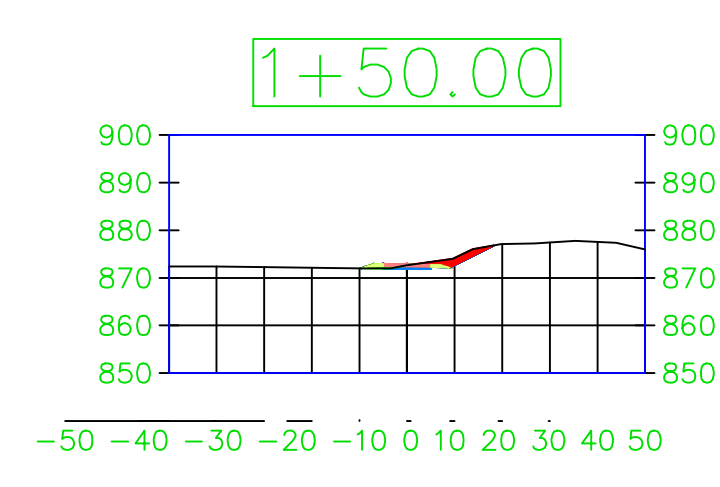
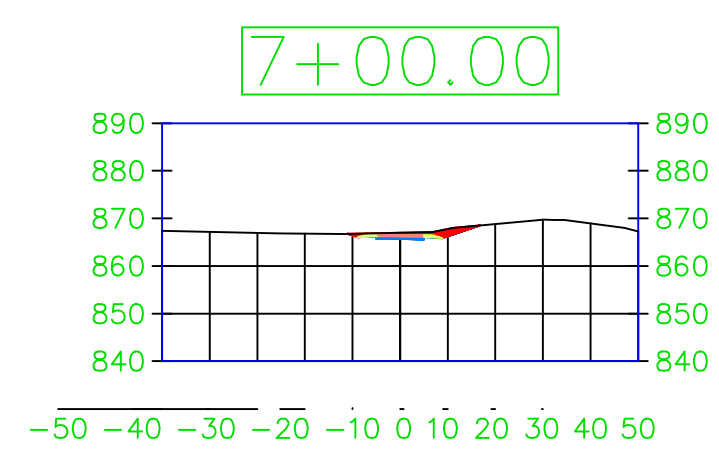
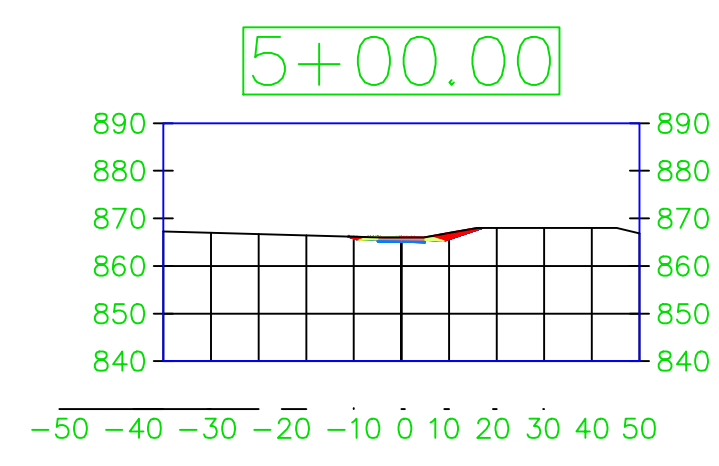
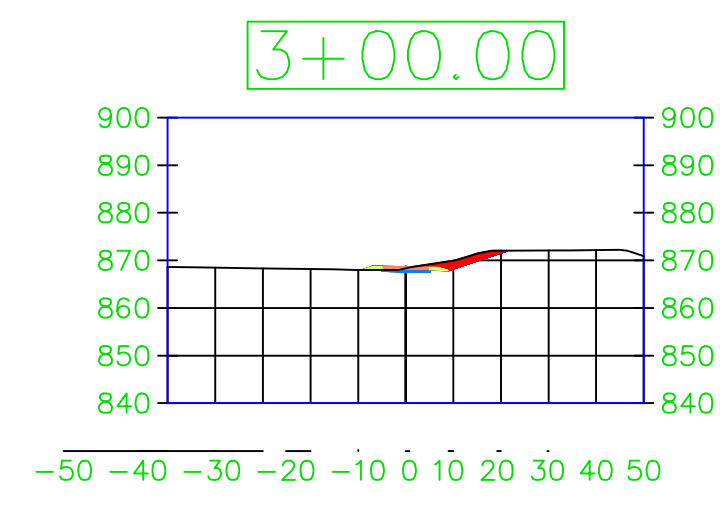
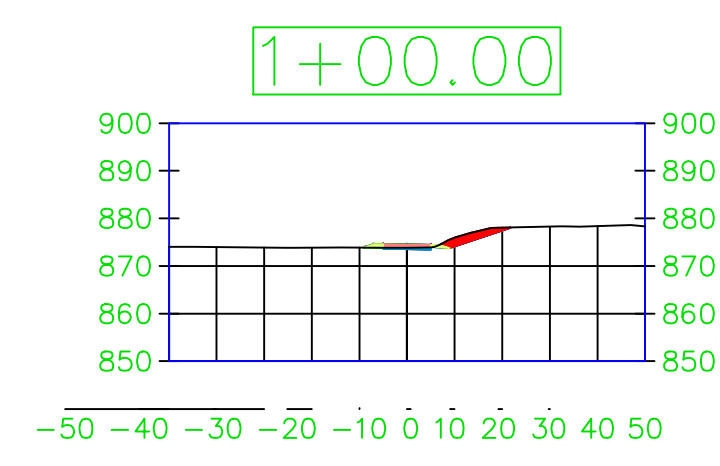
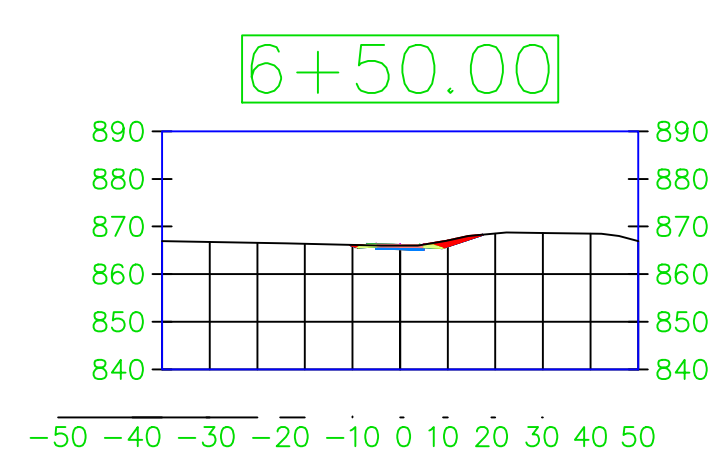
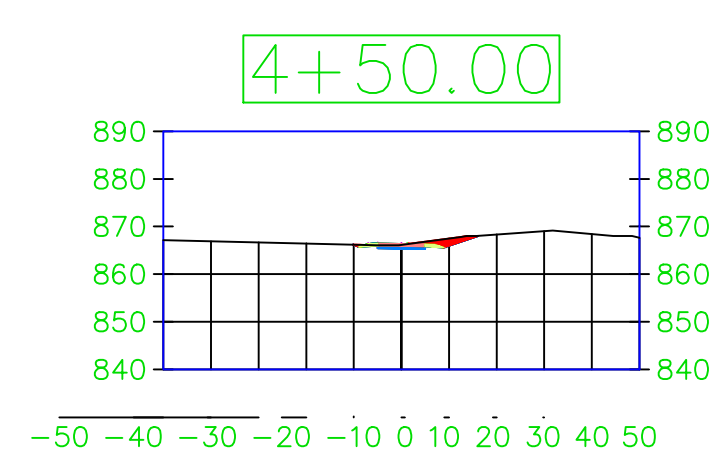
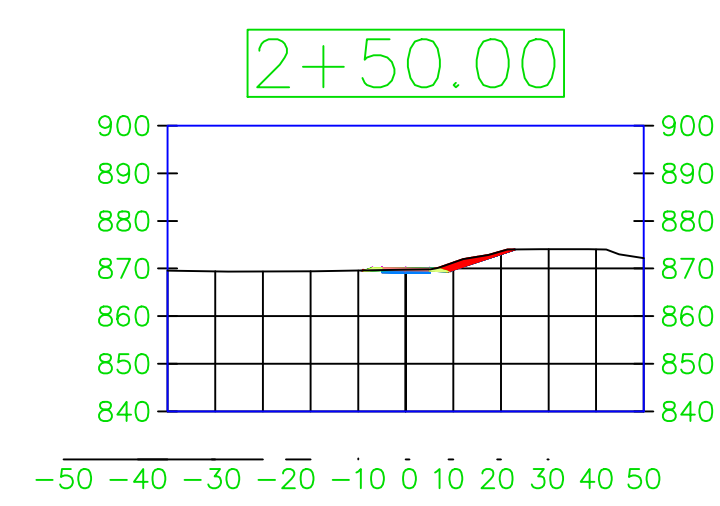
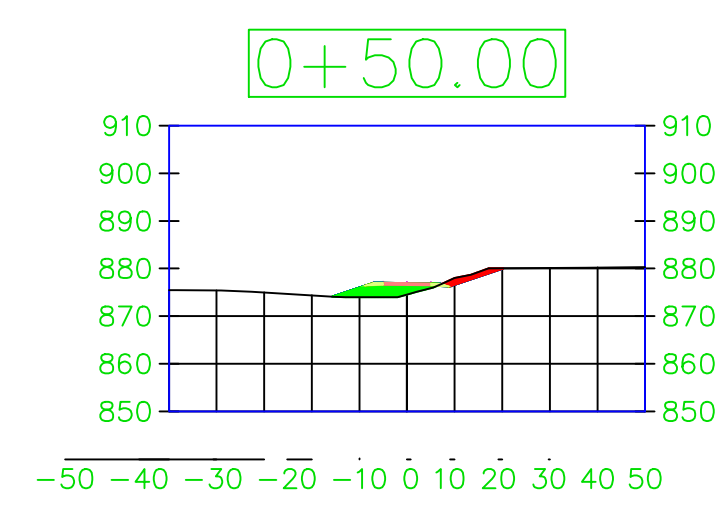
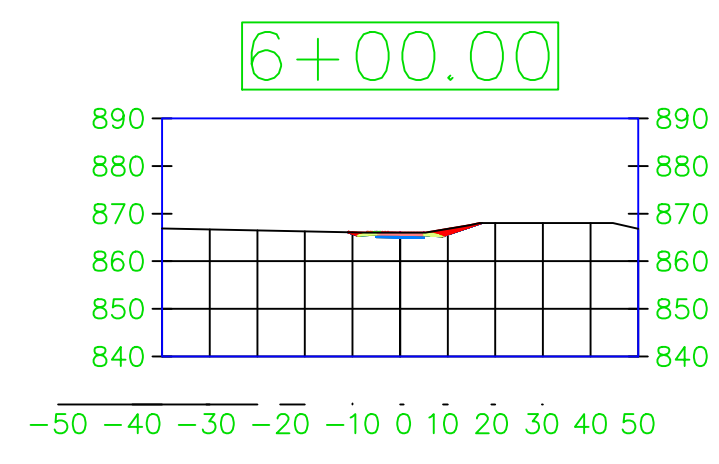
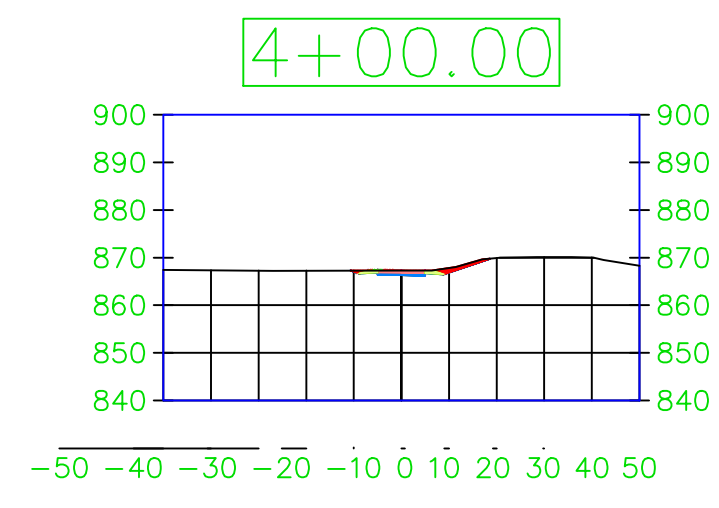
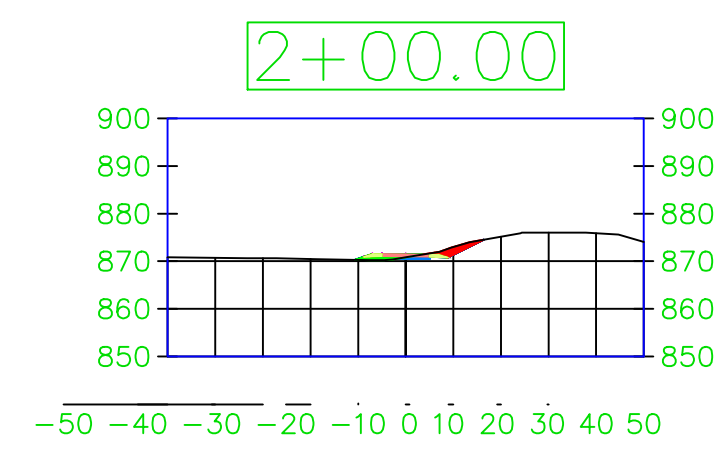
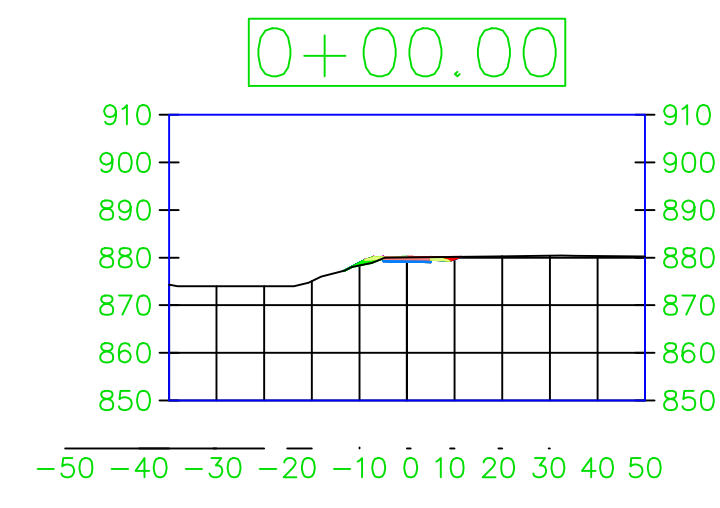
SCOTCH GROVE, IA 52310

SHEET NAME

38TH STREET
CROSS SECTIONS

SHEET NO.

72



PROJECT: CEE: 4850
 DATE: 5/3/24
 DRAWN BY: SOLE MATES ENGINEERING
 REVISION:

THE UNIVERSITY OF IOWA
 CIVIL AND ENVIRONMENTAL ENGINEERING
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REGIONAL TRAIL
 SCOTCH GROVE, IA 52310

SHEET NAME
 190TH STREET
 CROSS SECTIONS

SHEET NO.
73



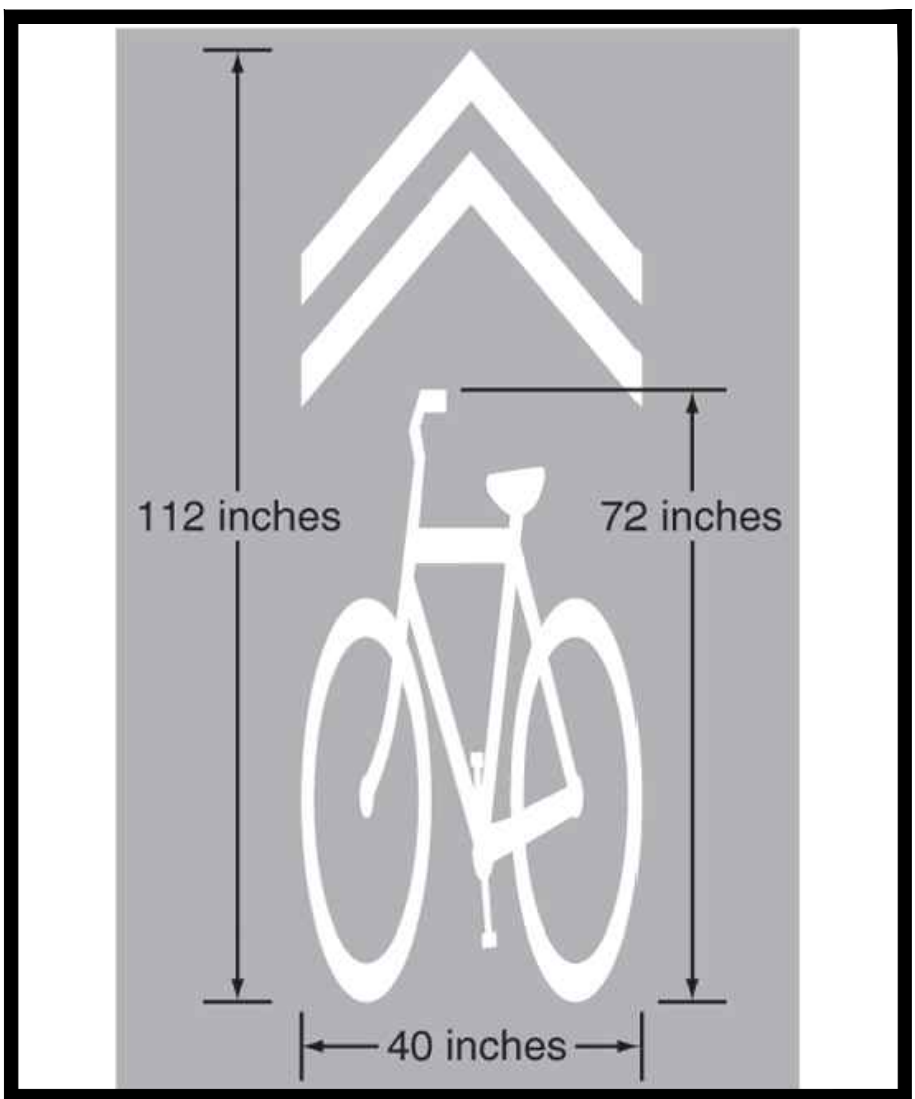
SWIE ALL-WEATHER AUTOMATIC HAND SANITIZER



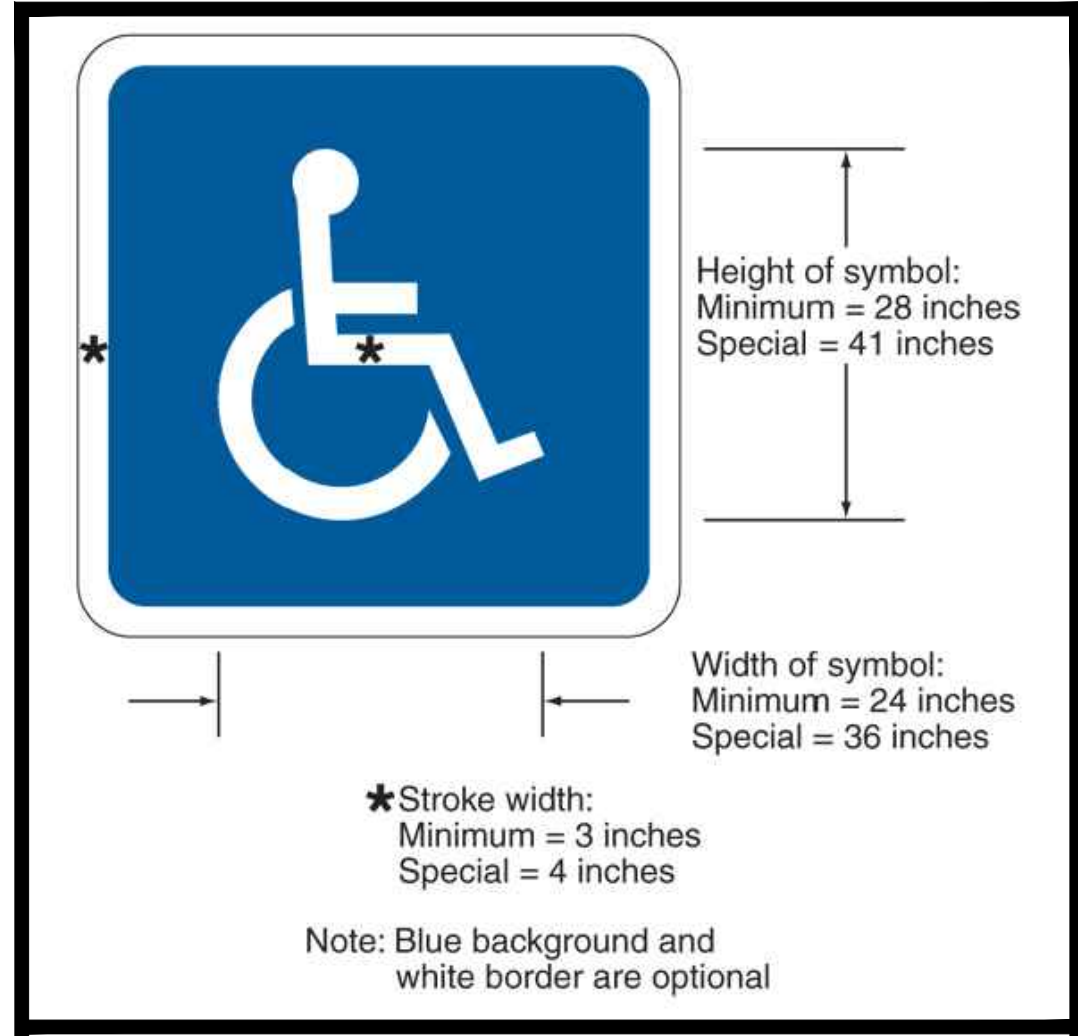
4' BENCH FROM TREETOP PRODUCTS SKU 2ZK2633-BN/BK



6' CONCRETE PARKING BLOCK FROM NITTERHOUSE SKU 18-1603



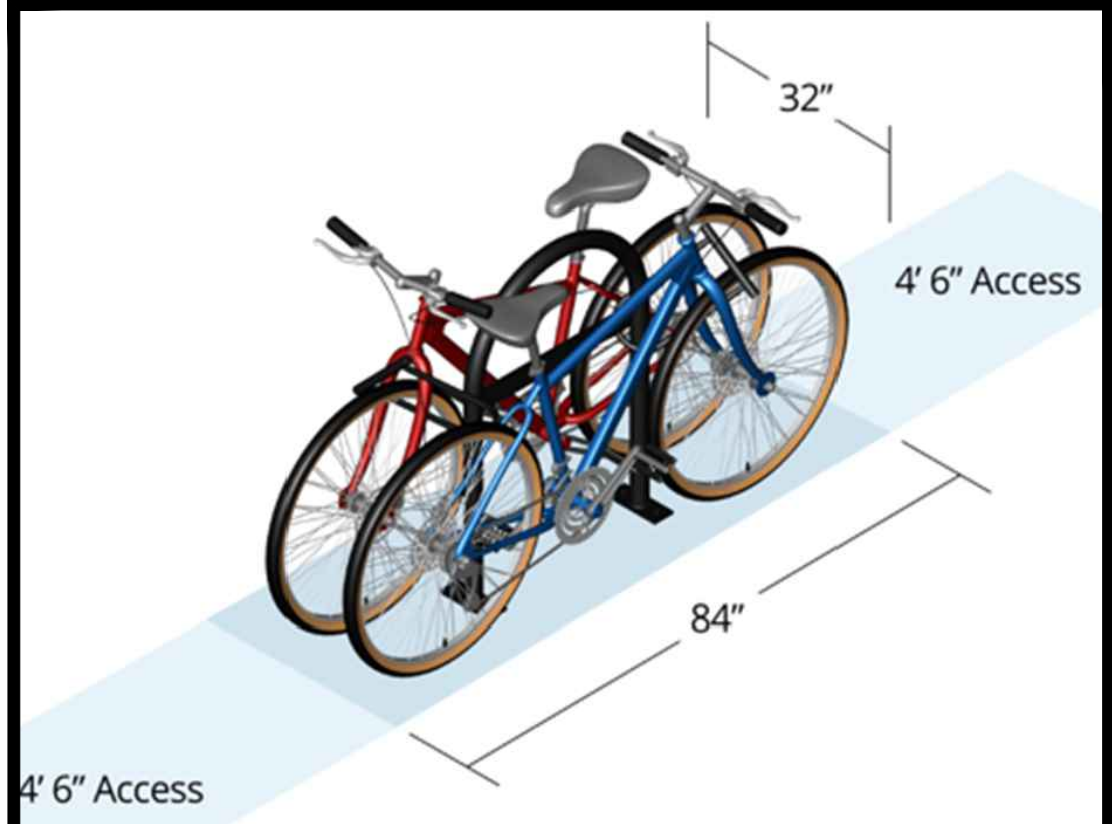
MUTCD SHARED LANE WITH BIKES PAVEMENT MARKING



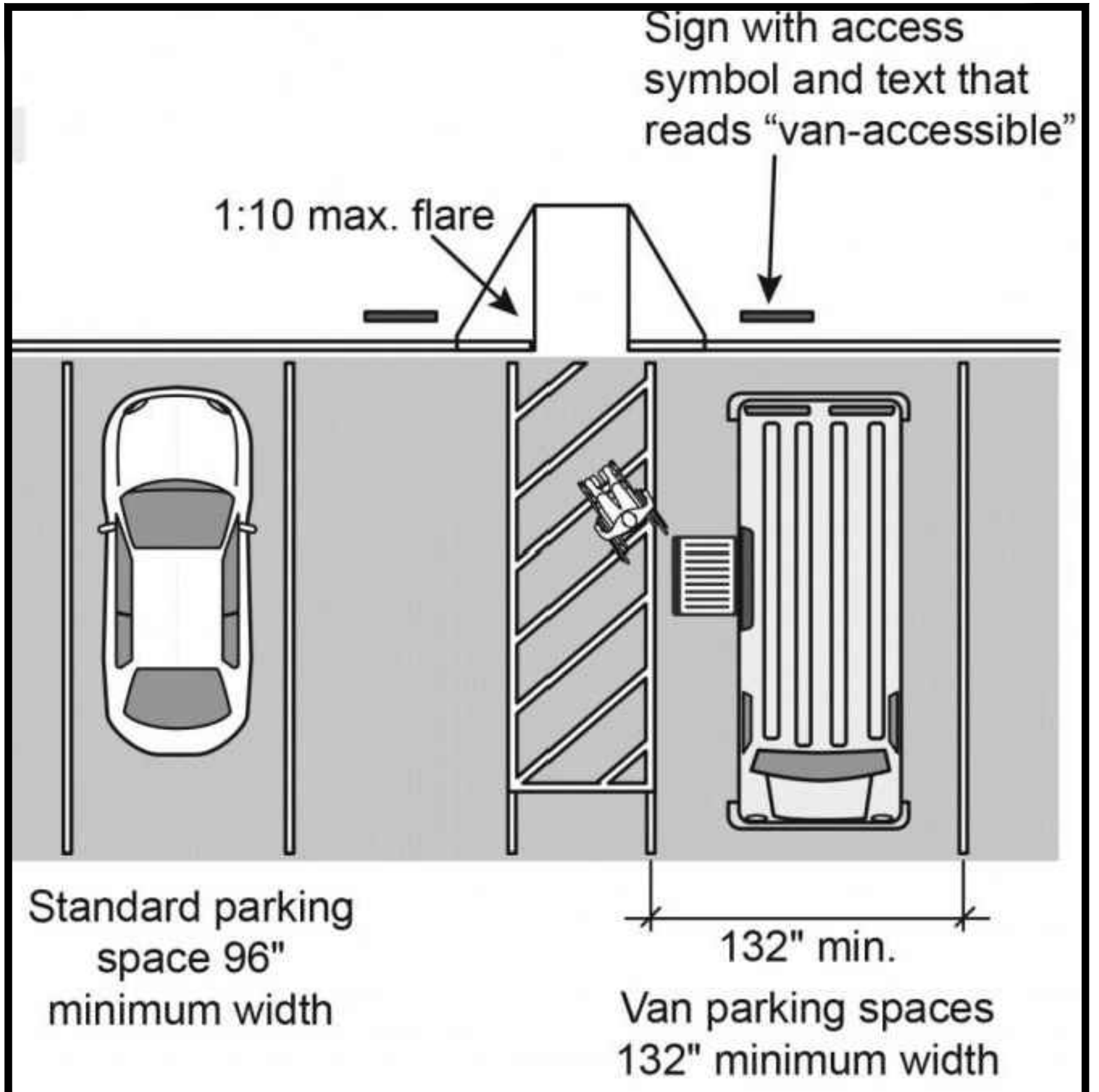
MUTCD ACCESSIBLE PAVEMENT MARKING



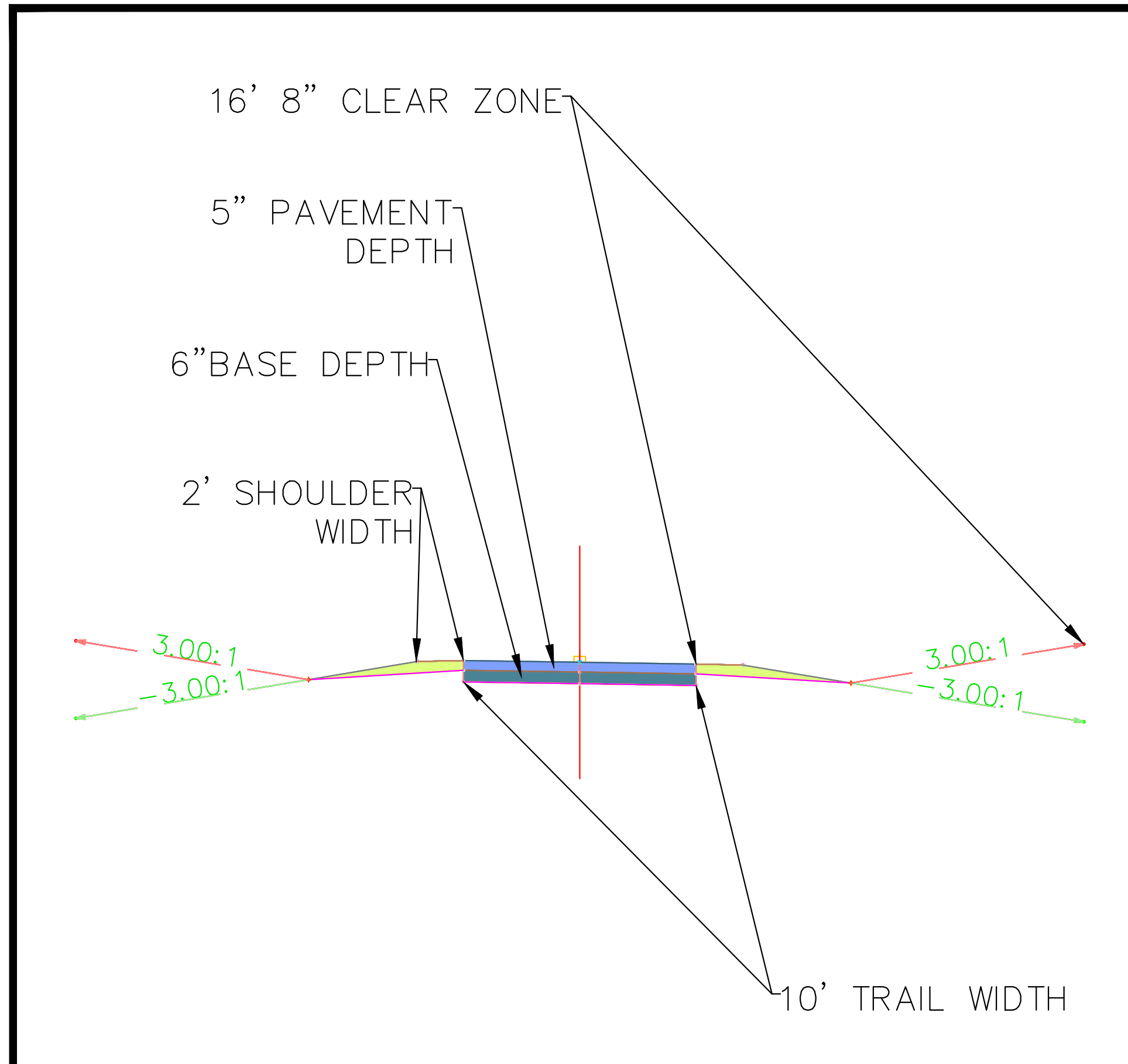
MUTCD TRAILHEAD SIGNS



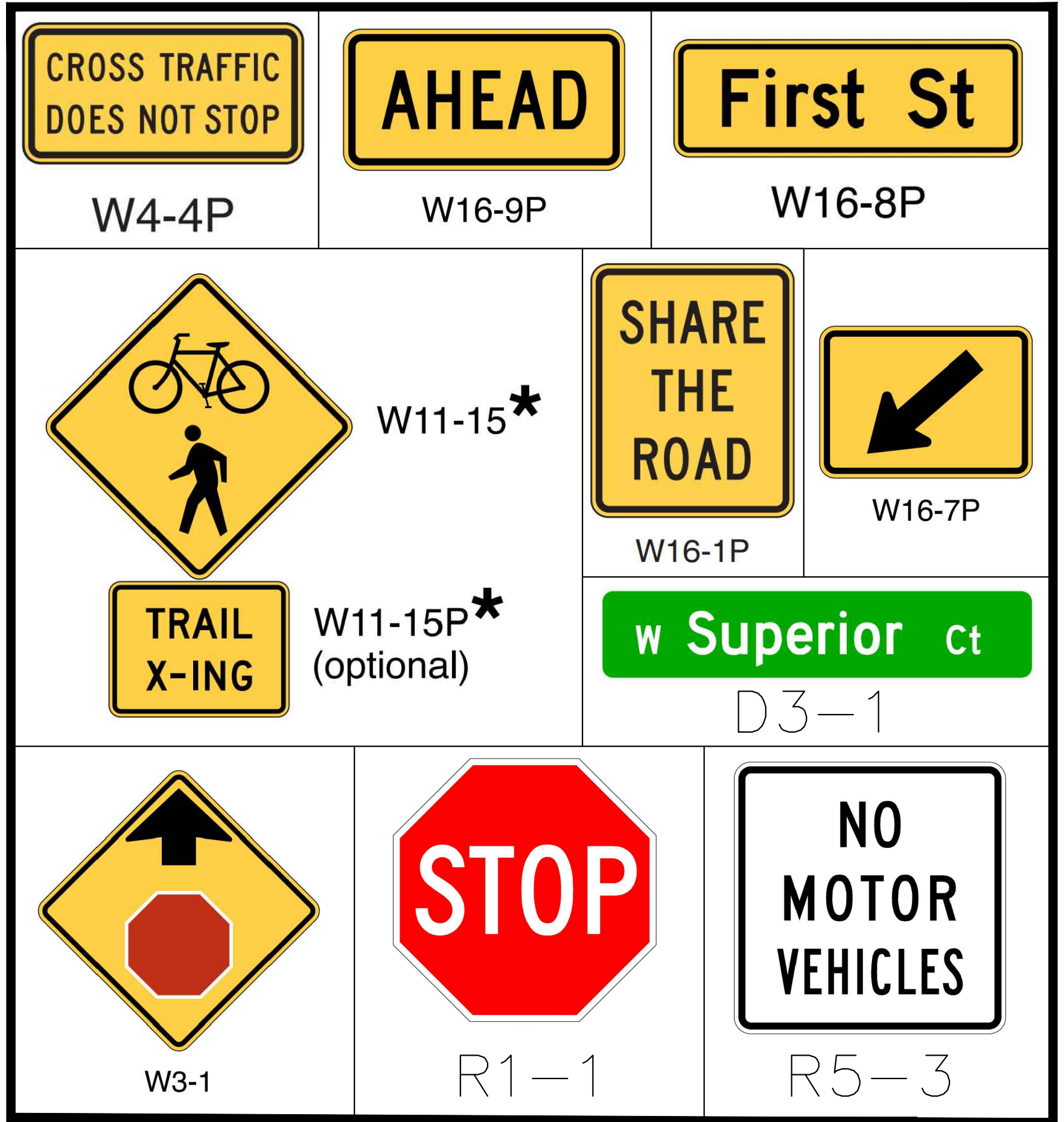
BIKE U RACK WITH CROSS BAR FROM CYCLESAFE SKU 12728



PARKING STALL DIMENSIONS



TRAIL CROSS SECTION ASSEMBLY DETAIL



MUTCD TRAIL SIGNS

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REGIONAL TRAIL
SCOTCH GROVE, IA 52310

SHEET NAME: DETAILS
SHEET NO.:

PRELIMINARY COST ESTIMATE OF REGIONAL TRAIL AND TRAILHEAD

ITEM	QUANTITY	UNIT	UNIT PRICE	TOTAL COST	ROUNDED COST
PHASE 1: TRAILHEAD TO END OF 116TH AVE					
BIKE RACKS	2	UNIT	\$ 269.00	\$ 538.00	\$ 540.00
RESTROOMS (DESIGN, TRANSPORTATION, INSTALLATION)	1	UNIT	\$202,500.00	\$ 202,500.00	\$ 202,500.00
SANITIZING STATIONS	2	UNIT	\$ 135.00	\$ 270.00	\$ 270.00
BENCHES	2	UNIT	\$ 698.00	\$ 1,396.00	\$ 1,400.00
PARKING STOP BLOCKS	6	UNIT	\$ 61.00	\$ 366.00	\$ 365.00
LIGHTING	6	UNIT	\$ 149.99	\$ 899.94	\$ 900.00
SIGNS	47	UNIT	\$ 150.00	\$ 7,050.00	\$ 7,050.00
PAVEMENT MARKING	700	LF	\$ 0.04	\$ 28.00	\$ 28.00
CLEARING AND GRUBBING	0.22	ACRE	\$ 1,000.00	\$ 220.15	\$ 220.00
EXCAVATE CLASS 10	17.91	CY	\$ 4.29	\$ 76.83	\$ 120.00
BACKFILL USING CUT	17.91	CY	\$ 6.25	\$ 111.94	\$ 175.00
GRANULAR BACKFILL	7.86	CY	\$ 52.82	\$ 415.17	\$ 415.00
SOIL COMPACTION	70.01	CY	\$ 1.92	\$ 134.43	\$ 135.00
TOP SOIL	48.38	CY	\$ 6.91	\$ 334.29	\$ 335.00
HYDRAULIC SEEDING	0.03	ACRE	\$ 3,852.07	\$ 115.51	\$ 115.00
AGGREGATE BASE COURSE	105.02	CY	\$ 20.00	\$ 2,100.42	\$ 2,100.00
5" ASPHALT (TRAILHEAD)	501.96	SY	\$ 44.80	\$ 22,487.81	\$ 22,500.00
5" PCC (OPTION 1)	128.17	SY	\$ 47.84	\$ 6,131.49	\$ 6,125.00
5" ASPHALT (OPTION 2)	128.17	SY	\$ 44.80	\$ 5,741.87	\$ 5,750.00
6" CLASS A COMPACTED STONE (OPTION 3)	29.91	TON	\$ 33.09	\$ 989.57	\$ 990.00
PHASE 2: END OF 116TH TO INTERSECTION OF 38TH AND 190TH					
SIGNS	14	UNIT	\$ 150.00	\$ 2,100.00	\$ 2,100.00
CLEARING AND GRUBBING	8.70	ACRE	\$ 1,000.00	\$ 8,698.92	\$ 8,700.00
EXCAVATE CLASS 10	1908.48	CY	\$ 4.29	\$ 8,187.38	\$ 10,000.00
BACKFILL USING CUT	1908.48	CY	\$ 6.25	\$ 11,928.00	\$ 14,500.00
GRANULAR BACKFILL	6109.34	CY	\$ 52.82	\$ 322,695.34	\$ 322,500.00
SOIL COMPACTION	1735.52	CY	\$ 1.92	\$ 3,332.21	\$ 3,325.00
TOP SOIL	2942.56	CY	\$ 6.91	\$ 20,333.10	\$ 20,300.00
HYDRAULIC SEEDING	1.82	ACRE	\$ 3,852.07	\$ 7,025.80	\$ 7,025.00
AGGREGATE BASE COURSE	2603.29	CY	\$ 20.00	\$ 52,065.74	\$ 52,000.00
5" PCC (OPTION 1)	15619.72	SY	\$ 47.84	\$ 747,247.51	\$ 747,000.00
5" ASPHALT (OPTION 2)	15619.72	SY	\$ 44.80	\$ 699,763.56	\$ 700,000.00
6" CLASS A COMPACTED STONE (OPTION 3)	3644.60	TON	\$ 33.09	\$ 120,599.88	\$ 120,500.00

PROJECT: CEE: 4850
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REGIONAL TRAIL
 SCOTCH GROVE, IA 52310

SHEET NAME
 COST ESTIMATE
 PHASES 1 & 2

SHEET NO.
75

PRELIMINARY COST ESTIMATE OF REGIONAL TRAIL AND TRAILHEAD					
ITEM	QUANTITY	UNIT	UNIT PRICE	TOTAL COST	ROUNDED COST
PHASE 3: INTERSECTION OF 38TH AND 190TH TO CAMP COURAGEOUS					
SIGNS	28	UNIT	\$ 150.00	\$ 4,200.00	\$ 4,200.00
CLEARING AND GRUBBING	5.55	ACRE	\$ 1,000.00	\$ 5,547.77	\$ 5,550.00
EXCAVATE CLASS 10	1310.89	CY	\$ 4.29	\$ 5,623.72	\$ 8,125.00
BACKFILL USING CUT	1310.89	CY	\$ 6.25	\$ 8,193.06	\$ 11,900.00
GRANULAR BACKFILL	4749.04	CY	\$ 52.82	\$ 250,844.29	\$ 251,000.00
SOIL COMPACTION	956.27	CY	\$ 1.92	\$ 1,836.04	\$ 1,825.00
TOP SOIL	2027.20	CY	\$ 6.91	\$ 14,007.94	\$ 14,000.00
HYDRAULIC SEEDING	1.26	ACRE	\$ 3,852.07	\$ 4,840.23	\$ 4,850.00
AGGREGATE BASE COURSE	1434.41	CY	\$ 20.00	\$ 28,688.11	\$ 28,700.00
5" PCC (OPTION 1)	8606.43	SY	\$ 47.84	\$ 747,247.51	\$ 747,000.00
5" ASPHALT (OPTION 2)	8606.43	SY	\$ 44.80	\$ 699,763.56	\$ 700,000.00
6" CLASS A COMPACTED STONE (OPTION 3)	2008.17	TON	\$ 33.09	\$ 120,599.88	\$ 120,500.00
PHASE 4: CONNECTION TO MONTICELLO TRAIL					
SIGNS	16	UNIT	\$ 150.00	\$ 2,400.00	\$ 2,400.00
CLEARING AND GRUBBING	2.74	ACRE	\$ 1,000.00	\$ 2,743.96	\$ 2,750.00
EXCAVATE CLASS 10	2619.3	CY	\$ 4.29	\$ 11,236.80	\$ 14,900.00
BACKFILL USING CUT	2619.3	CY	\$ 6.25	\$ 16,370.63	\$ 21,700.00
GRANULAR BACKFILL	4713.45	CY	\$ 52.82	\$ 248,964.43	\$ 249,000.00
SOIL COMPACTION	1098.62	CY	\$ 1.92	\$ 2,109.35	\$ 2,100.00
TOP SOIL	377.02	CY	\$ 6.91	\$ 2,605.24	\$ 2,600.00
HYDRAULIC SEEDING	0.23	ACRE	\$ 3,852.07	\$ 900.20	\$ 900.00
AGGREGATE BASE COURSE	1647.93	CY	\$ 20.00	\$ 32,958.52	\$ 33,000.00
5" PCC (OPTION 1)	9887.56	SY	\$ 47.84	\$ 473,020.66	\$ 473,000.00
5" ASPHALT (OPTION 2)	9887.56	SY	\$ 44.80	\$ 442,962.49	\$ 443,000.00
6" CLASS A COMPACTED STONE (OPTION 3)	2307.10	TON	\$ 33.09	\$ 76,341.82	\$ 76,500.00

PROJECT: CEE: 4850
DATE: 5/3/24
DRAWN BY: SOLE MATES ENGINEERING
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
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EDUCATIONAL - NOT FOR CONSTRUCTION

REGIONAL TRAIL
SCOTCH GROVE, IA 52310

SHEET NAME
COST ESTIMATE
PHASES 3 & 4

SHEET NO.
76

CONSTRUCTION COSTS	
TRAILHEAD: 5" ASPHALT	\$ 235,553.00
PHASE 1: TRAILHEAD TO END OF 116TH AVE:	
5" PCC (OPTION 1)	\$ 245,293.00
5" ASPHALT (OPTION 2)	\$ 244,918.00
6" CLASS A COMPACTED STONE (OPTION 3)	\$ 240,158.00
PHASE 2: END OF 116TH TO INTERSECTION OF 38TH AND 190TH	
5" PCC (OPTION 1)	\$1,187,450.00
5" ASPHALT (OPTION 2)	\$1,140,450.00
6" CLASS A COMPACTED STONE (OPTION 3)	\$ 560,950.00
PHASE 3: INTERSECTION OF 38TH AND 190TH TO CAMP COURAGEOUS	
5" PCC (OPTION 1)	\$1,077,150.00
5" ASPHALT (OPTION 2)	\$1,030,150.00
6" CLASS A COMPACTED STONE (OPTION 3)	\$ 450,650.00
PHASE 4: CONNECTION TO MONTICELLO TRAIL	
5" PCC (OPTION 1)	\$ 802,350.00
5" ASPHALT (OPTION 2)	\$ 772,350.00
6" CLASS A COMPACTED STONE (OPTION 3)	\$ 405,850.00
TOTAL COST FOR SELECTED MATERIAL: 6" CLASS A COMPACTED STONE	
CONSTRUCTION SUBTOTAL:	\$1,657,500.00
ENGINEERING AND ADMINISTRATION:	\$ 66,500.00
CONTINGENCIES:	\$ 298,500.00
TOTAL PROJECT COST:	\$2,022,500.00

PROJECT: CEE: 4850
DATE: 5/3/24
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SHEET NAME
COMBINED COST ESTIMATE

SHEET NO.
77