PCC PAVEMENT - GRADE AND NEW
IM-080-3(274)125-13-77
POLK COUNTY

LETTING DATE 09-15-2026

REVISIONS

TOTAL 642
PROJECT IDENTIFICATION NUMBER
15-77-080-060
PROJECT NUMBER
IM-080-3(274)125-13-77
R.O.W. PROJECT NUMBER
IMN-080-3(279)124--0E-77

IOWA DOT

PLANS OF PROPOSED IMPROVEMENT ON THE

PRIMARY ROAD SYSTEM
POLK COUNTY
PCC PAVEMENT - GRADE AND NEW

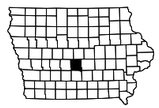
U.S. 6 / HICKMAN ROAD INTERCHANGE
IN CLIVE AND URBANDALE

SCALES: As Noted

Refer to the Proposal Form for list of applicable specifications.

Value Engineering Saves. Refer to Article 1105.14 of the Specifications.

IOWA ONE CALL
1-800-292-8989
www.iowaonecall.com
811 Know what's below. Call before you dig.



INDEX OF SEALS		
SHEET NO.	NAME	TYPE
A.1	Nathan E. Carhoff	Primary Signature Block
CS.1	Matthew Cushman	Geotechnical Design
U.1	David Mulholland	Storm Water Management
U.100	Steven Seefeld	Landscape Design
U.200	Tyler Von Weihe	Structual Design

U.S. Hwy. 6 DESIGN DATA RURAL		
2022	AADT	37,600 V.P.D.
2050	AADT	66,000 V.P.D.
2050	DHV	4,240 V.P.H.
TRUCKS		6 %
Total Design ESALs		–

I-35/80 DESIGN DATA RURAL		
2022	AADT	122,100 V.P.D.
2050	AADT	185,900 V.P.D.
2050	DHV	14,110 V.P.H.
TRUCKS		13 %
Total Design ESALs		–

LICENSED PROFESSIONAL ENGINEER
NATHAN E. CARHOFF
P19699
IOWA

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

Nathan Carhoff 07/06/2026

Nathan E. Carhoff, P.E. Date

License Number P19699

My License Renewal Date is December 31, 2027

Pages or sheets covered by this seal:

All Except CS, Q, and U Sheets

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER A.1

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V2

T-78N

T-79N

R-25W

R-25W

STA. 657+18.25
BEGIN PROJECT

City of Clive

City of Urbandale

Bridge FHWA No.
Exist: 41311

Bridge FHWA No.
Exist: 41301

STA. 702+13.43
END PROJECT

80

35

235

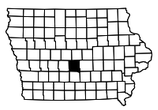
6

University Avenue

Hickman Road

Douglas Avenue

Meredith Drive



LOCATION MAP NOT TO SCALE

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER A.2	

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V2

INDEX OF SHEETS

No.	DESCRIPTION
A Sheets	**Title Sheets**
A.1	Title Sheet
A.2	Location Map Sheet
A.3	Index of Sheets
B Sheets	**Typical Cross Sections and Details**
B.1 - 11	Typical Cross Sections and Details
C Sheets	**Quantities and General Information**
C.1 - 9	Estimated Project Quantities and Reference Notes
C.100	Project Description
C.101	Standard Road Plans
C.102	Index of Tabulations
C.103 - 128	Tabulations
CD Sheets	**Drainage Tabulations**
CD.1 - 2	Drainage Tabulations
CS Sheets	**Soils Tabulations**
CS.1 - 3	Soils Tabulations
D Sheets	**Mainline Plan and Profile Sheets**
* D.1	Plan & Profile Legend & Symbol Information Sheet
* D.2 - 7	U.S. Highway 6 (Hickman Road)
E Sheets	**Side Road Plan and Profile Sheets**
* E.1	111th Street
* E.2	111th Street Frontage Road
* E.3 - 7	U.S. Highway 6/Hickman Road Trail
* E.8 - 9	I-80/35 Trail
F Sheets	**Removal Sheets**
* F.1 - 4	Removal Plan U.S. Highway 6 (Hickman Road)
* F.5	Removal Plan 111th Street
G Sheets	**Survey Sheets**
G.1 - 3	Horizontal Control Information
G.4 - 8	Horizontal Control Tabulations
H Sheets	**Right-of-Way Sheets**
H.1 - 3	U.S. Highway 6 (Hickman Road)
HE.1 - 2	NW 111th Street
J Sheets	**Traffic Control and Staging Sheets**
* J.1 - 9	Traffic Control Plan, Staging Notes, Tabulations
* J.11	Traffic Control and Staging Legend & Symbol Info. Sheet
* J.12 - 14	Allowable Closure Maps
* J.20	Temporary Detour Sheet
* J.50 - 52	Staging Typical Sections
* J.80	Staging Overview Map
* J.100 - 102	Staging Plan - Stage 1A
* J.103 - 106	Staging Plan - Stage 1B
* J.200 - 207	Staging Plan - Stage 2
* J.300 - 306	Staging Plan - Stage 3
* J.400 - 404	Staging Plan - Stage 4A
* J.405 - 409	Staging Plan - Stage 4B
* J.500 - 503	Staging Plan - Stage 5
* J.600 - 604	Staging Plan - Stage 6
K Sheets	**Roadway Geometrics Sheets**
* K.1	Overall Alignments U.S. 6 (Hickman Road)
* K.2	U.S. 6 (Hickman Road) Ramp A_1 Plan and Profile
* K.3	U.S. 6 (Hickman Road) Ramp A_2 Plan and Profile
* K.4	U.S. 6 (Hickman Road) Ramp B_1 Plan and Profile
* K.5	U.S. 6 (Hickman Road) Ramp B_2 Plan and Profile
* K.6	U.S. 6 (Hickman Road) Ramp C_1 Plan and Profile
* K.7	U.S. 6 (Hickman Road) Ramp C_2 Plan and Profile
* K.8	U.S. 6 (Hickman Road) Ramp D_1 Plan and Profile
* K.9	U.S. 6 (Hickman Road) Ramp D_2 Plan and Profile
L Sheets	**Geometric, Staking and Jointing Sheets**
L.1	Geometric Staking & Jointing Legend & Symbol Info. Sheet
L.2 - 23	Hickman Road Geometric, Staking, and Jointing
L.24 - 27	111th Street Geometric, Staking, and Jointing
L.28	111th Street Curb Return Profiles
M Sheets	**Storm Sewer Sheets**
M.1 - 2	Storm Sewer Tabulations
M.3	Storm Sewer Legend & Symbol Information Sheet
M.4 - 15	Storm Sewer Plan and Profile Sheets Hickman Road
MWM Sheets	**Water Main Sheets**
MWM.1	Clive Water Main Sheet

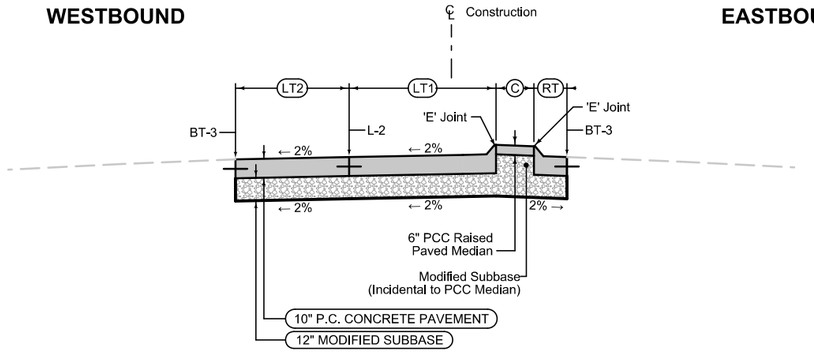
INDEX OF SHEETS

Q Sheets	**Soils Sheets**
Q.1	Soils Legend & Symbol Information Sheet
Q.2 - 7	Soils Sheets U.S. Highway 6 (Hickman Road)
Q.8	Soils Sheets 111th Street
R Sheets	**Erosion Control Sheets**
RC.1 - 4	Est. Quantities, PPP, General Notes and Tabulations
RC.100 - 108	Erosion Control Legend & Symbol Information Sheet
* RR.1	Erosion Control Legend & Symbol Information Sheet
* RR.2 - 7	Hickman Road Drainage Basins
* RR.8 - 19	Hickman Road Erosion Control
* RR.20 - 22	I80/35 Erosion Control
* RR.30 - 33	Hickman Road Seeding
* RR.34 - 36	I80/35 Seeding
S Sheets	**Sidewalk Sheets**
* S.1	Sidewalk Legend & Symbol Information Sheet
* S.2 - 6	Sidewalk Plan Sheets
* S.7 - 10	Sidewalk Tabulations
T Sheets	**Earthwork Quantity Sheets**
T.1A - 1D	Earthwork Notes and Details
T.2 - 11	Earthwork Quantity Sheets
U Sheets	**500 Series, Mod.Stds. and Detail Sheets**
U.1	Structural Aethetic Details
U.2 - 5	Bioretention Cells
U.100	Aesthetic & Landscaping Overall Sheet Layout
U.101 - 108	U.S. Highway 6 (Hickman Road) Aesthetic & Landscaping
U.109 - 111	Landscaping Details
U.201 - 208	Aesthetic Features Details
V Sheets	**Wall and Culvert Situation Plans**
V.1 - 2	Segmental Block Wall Situation Plans
VW.1	Culvert Situation Plan
W Sheets	**Mainline Cross Sections**
W.1	Cross Sections Legend & Symbol Information Sheet
W.100 - 128	U.S. Highway 6 (Hickman Road) Stage 1
W.200 - 253	U.S. Highway 6 (Hickman Road)
W.300 - 349	U.S. Highway 6 (Hickman Road) EB
W.400 - 451	U.S. Highway 6 (Hickman Road) WB
X Sheets	**Side Road Cross Sections**
X.100 - 144	111th Street - Stage 3
X.200 - 203	Frontage Road
X.300 - 308	Interstate 80/35 Trail
X.400 - 413	U.S. Highway 6 (Hickman Road) Trail
Y Sheets	**Ramp Cross Sections**
Y.100 - 105	Ramp A-1
Y.200 - 204	Ramp A-2
Y.300 - 309	Ramp B-1
Y.400 - 409	Ramp B-2
Y.500 - 509	Ramp C-1
Y.600 - 607	Ramp C-2
Y.700 - 711	Ramp D-1
Y.800 - 807	Ramp D-2

* Color Plan Sheets

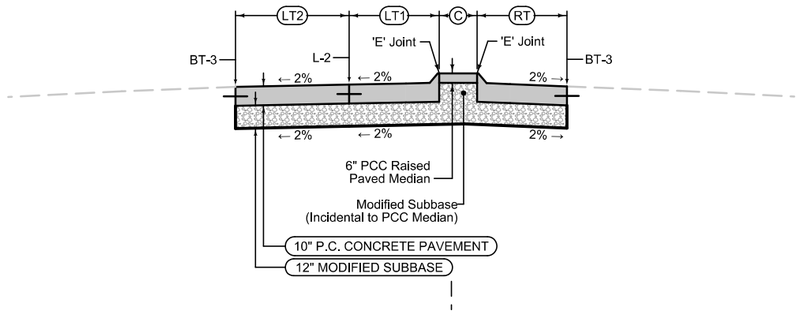
4DP_Raised Out
MODIFIED

WESTBOUND



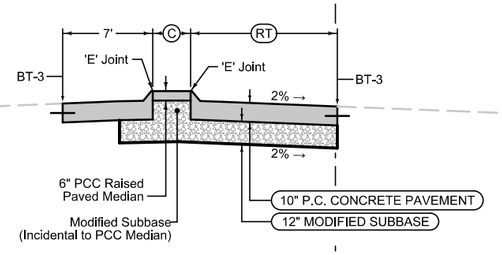
Mainline Jointing:
Transverse joints: CD Match Existing (20' Max. spacing)

BEGIN STATION	END STATION	C Feet	LT1 Feet	LT2 Feet	RT Feet
657+07.85	657+28.60	3.1-4	13-12.1	11.5	5-4.9



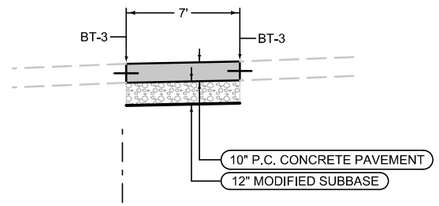
Mainline Jointing:
Transverse joints: CD Match Exlsting (20' Max. spacing)

BEGIN STATION	END STATION	C Feet	LT1 Feet	LT2 Feet	RT Feet
657+28.60	659+36.60	4	12.1-0	11.5-7.0	4.9-12



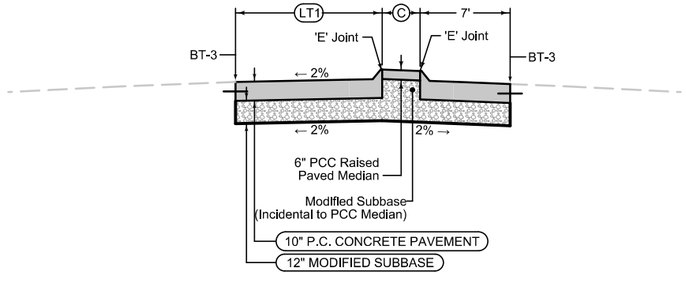
Mainline Jointing:
Transverse joints: CD Match Existing (20' Max. spacing)

BEGIN STATION	END STATION	C Feet	RT Feet
659+36.60	662+47.00	4	12



Mainline Jointing:
Transverse joints: CD Match Existing (20' Max. spacing)

BEGIN STATION	END STATION	C Feet	RT Feet
663+71.00	664+42.00	4	12

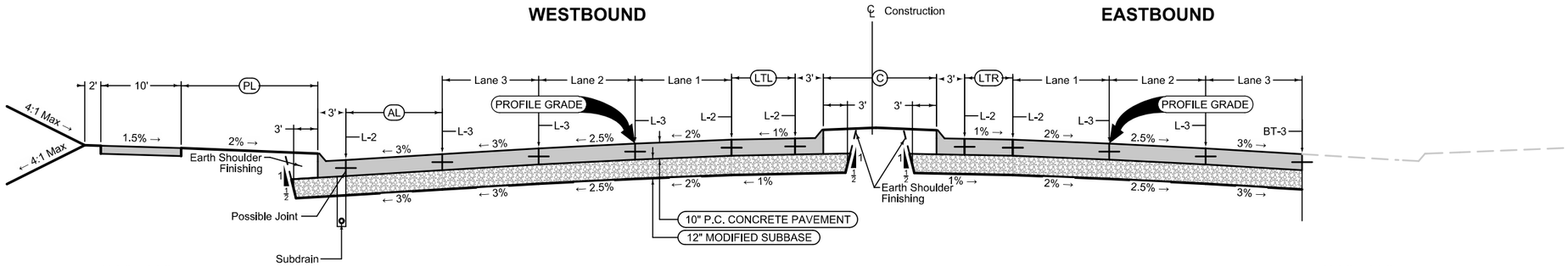


Mainline Jointing:
Transverse joints: CD Match Existing (20' Max. spacing)

BEGIN STATION	END STATION	C Feet	LT1 Feet
664+42.00	665+73.61	4	9
665+73.61	666+50.00	4-9.1	9-3.9

Hickman Road DDI
Normal Lane Direction

WESTBOUND



Mainline Jointing:
Transverse joints: CD at 17' spacing
Longitudinal joint: L-2

BEGIN STATION	END STATION	Aux Lane Feet	Lane 3 Feet	Lane 2 Feet	Lane 1 Feet
666+50.00	667+65.05	EX*	11	11	11
667+65.05	668+00.00	8.9-6.8	11	11	11

* AUXILARY LANE, LANE, AND/OR CURB AND GUTTER EXISTING FROM PREVIOUS PROJECT.

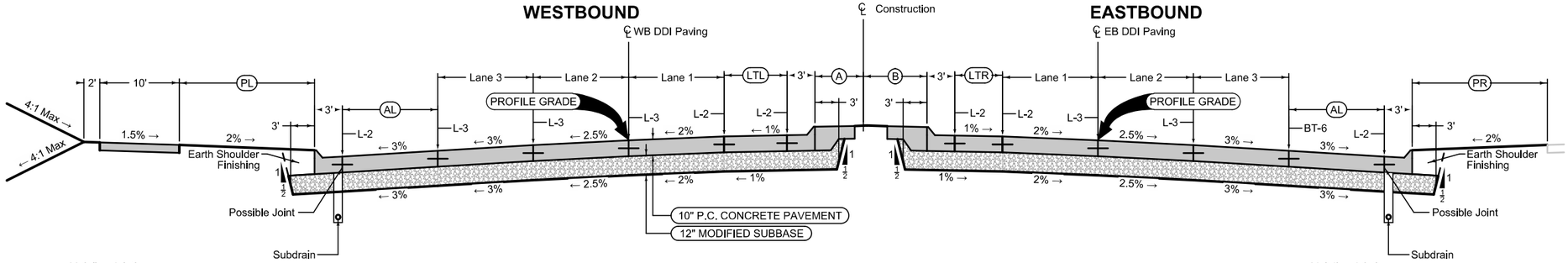
BEGIN STATION	END STATION	C Feet	LTL Feet	LTR Feet
666+50.00	668+00.00	9.1-18.3	19.0-10.0	0-0.7

EASTBOUND

Mainline Jointing:
Transverse joints: CD at 17' spacing
Longitudinal joint: L-2

BEGIN STATION	END STATION	Lane 1 Feet	Lane 2 Feet	Lane 3 Feet	Aux Lane Feet
666+50.00	668+00.00	12	12	6	EX.

WESTBOUND



Mainline Jointing:
Transverse joints: CD at 17' spacing
Longitudinal joint: L-2

BEGIN STATION	END STATION	Aux Lane Feet	Lane 3 Feet	Lane 2 Feet	Lane 1 Feet	LTL Feet	PL Feet	S Feet
1668+00.00	1668+83.23	0-8.9	12-14	12-14	12-14	10-0	Var.	10
1669+75.49	1670+07.51	-	EX*	14	14	-	Var.	10
1670+07.51	1671+56.20	-	EX*	EX*	14	-	Var.	10
1671+56.20	1671+98.86	-	EX*	14	14	-	-	-
1671+98.86	1672+26.31	-	14*	14	14	-	-	-
1672+26.31	1672+74.18	-	14	14	14	-	-	-

* AUXILARY LANE, LANE, AND/OR CURB AND GUTTER EXISTING FROM PREVIOUS PROJECT.

BEGIN STATION	END STATION	A Feet	B Feet
668+00.00	673+46.47	6.1-44.5	0-28.7

EASTBOUND

Mainline Jointing:
Transverse joints: CD at 17' spacing
Longitudinal joint: L-2

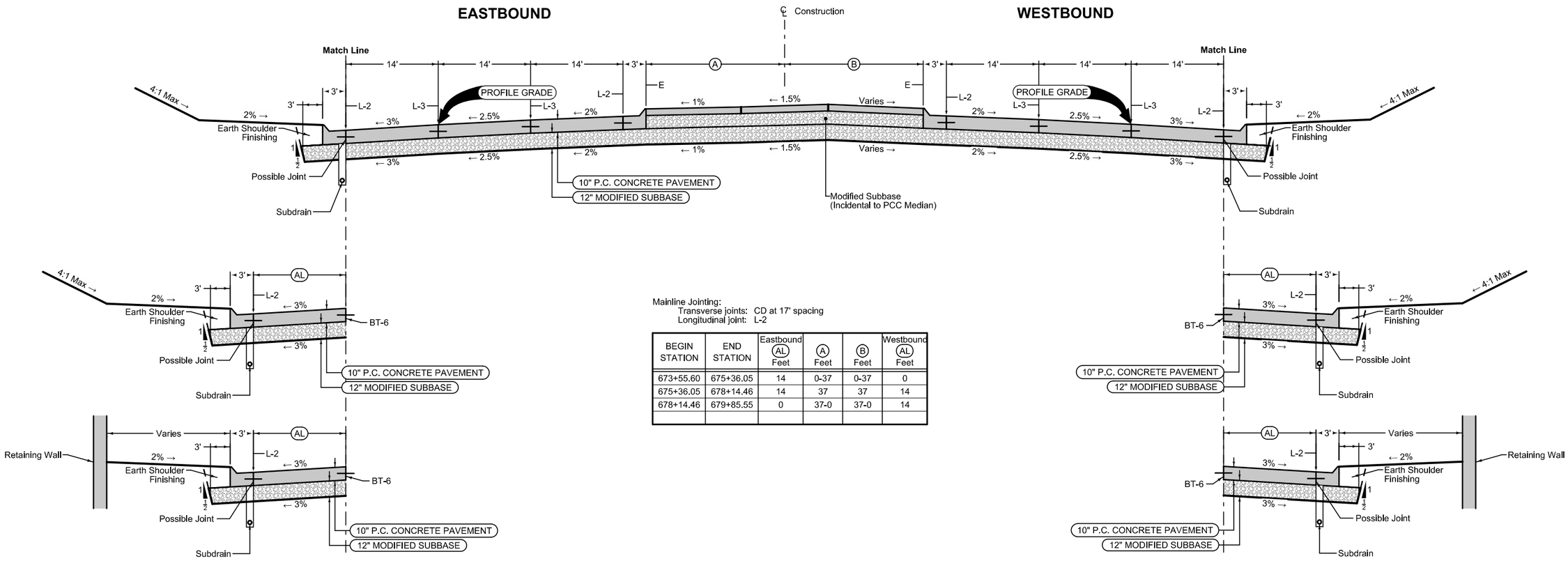
BEGIN STATION	END STATION	Aux Lane Feet	Lane 3 Feet	Lane 2 Feet	Lane 1 Feet	LTL Feet	PL Feet	S Feet
2668+00.00	2669+29.55	12-13.8	12-13.6	12-13.6	12-13.6	0.7-11.4	10	EX.
2669+29.55	2669+78.75	EX.*	13.6-14	13.6-14	13.6-14	11.4-14	EX.	EX.
2669+78.75	2671+41.29	EX.*	EX.*	14	14	14	EX.	EX.
2671+41.29	2671+93.98	EX.*	14	14	14	14	-	-
2671+93.98	2672+80.18	-	14	14	14	14	-	-

Hickman Road DDI
Normal Lane Direction

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER B.2

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V2



Mainline Jointing:
Transverse joints: CD at 17' spacing
Longitudinal joint: L-2

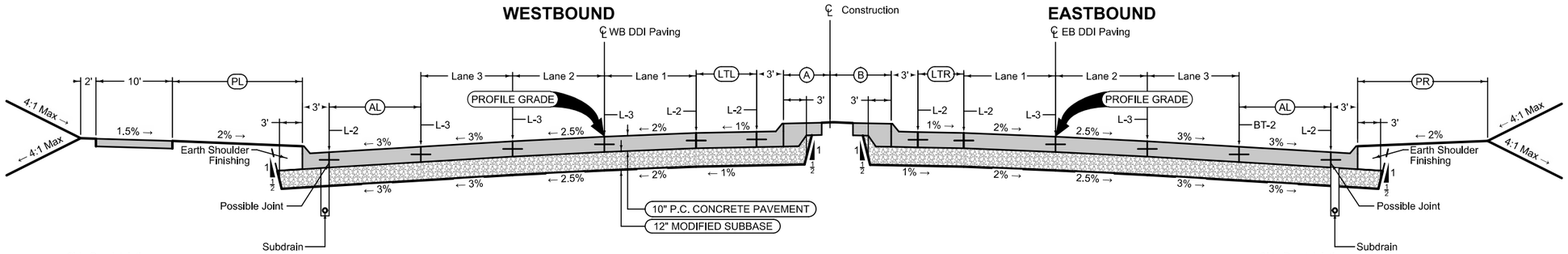
BEGIN STATION	END STATION	Eastbound (AL) Feet	(A) Feet	(B) Feet	Westbound (AL) Feet
673+55.60	675+36.05	14	0-37	0-37	0
675+36.05	678+14.46	14	37	37	14
678+14.46	679+85.55	0	37-0	37-0	14

Hickman Road DDI
Opposite Lane Direction

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER B.3	

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V2



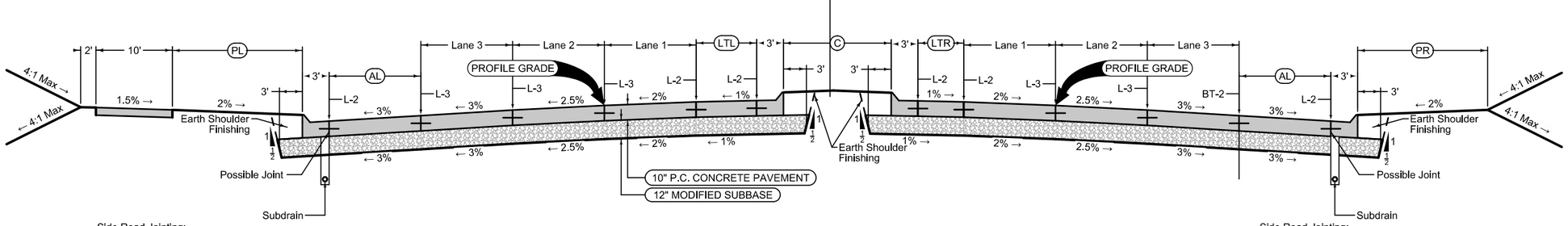
Side Road Jointing:
Transverse joints: CD at 17' spacing
Longitudinal joint: L-2

BEGIN STATION	END STATION	Aux Lane Feet	Lane 3 Feet	Lane 2 Feet	Lane 1 Feet	(LTL) Feet	PL Feet	S Feet
1680+92.96	1681+83.16	-	14	14	14	14	Var.	EX.
1681+83.16	1684+99.62	14-6.1	14	14	14	14-12.8	Var.	EX.
1684+99.62	1686+01.79	6.1-0	14-12	14-12	14-12	2.8-3.8	Var.	10
1686+01.79	1687+11.00	-	12	12	12	3.8-0	Var.	10

BEGIN STATION	END STATION	(A) Feet	(B) Feet
680+69.65	687+00.00	7.5-35.7	0-45.7

Side Road Jointing:
Transverse joints: CD at 17' spacing
Longitudinal joint: L-2

BEGIN STATION	END STATION	Aux Lane Feet	Lane 3 Feet	Lane 2 Feet	Lane 1 Feet	(LTL) Feet	PL Feet	S Feet
2681+02.72	2682+89.09	-	14-12	14-12	14-12	-	-	-
2682+89.09	2686+27.06	-	12	12	12	-	-	-
2686+27.06	2687+39.19	0-6.2	12	12	12	0-0.7	-	-



Side Road Jointing:
Transverse joints: CD at 17' spacing
Longitudinal joint: L-2

BEGIN STATION	END STATION	Aux Lane Feet	Lane 3 Feet	Lane 2 Feet	Lane 1 Feet
687+00.00	690+65.82	-	12	12	12
690+65.82	694+10.00	10	12	12	12
694+10.00	695+61.26	10-0	12	12	12
695+61.26	697+00.00	-	12	12	12

BEGIN STATION	END STATION	(C) Feet	(LTL) Feet	(LTR) Feet
687+00.00	688+62.92	15.3-4	-	0.7-12
688+62.92	690+65.82	4	-	12
692+28.01	694+30.00	4	12	-
694+30.00	696+10.00	4-16	12-0	-
696+10.00	697+00.00	16	-	-

Side Road Jointing:
Transverse joints: CD at 17' spacing
Longitudinal joint: L-2

BEGIN STATION	END STATION	Lane 1 Feet	Lane 2 Feet	Lane 3 Feet	Aux Lane Feet
687+00.00	687+62.89	12	12	12	0.7-10
687+62.89	690+40.14	12	12	12	10
692+30.01	697+00.00	12	12	12	-

Hickman Road DDI
Normal Lane Direction

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER B.4

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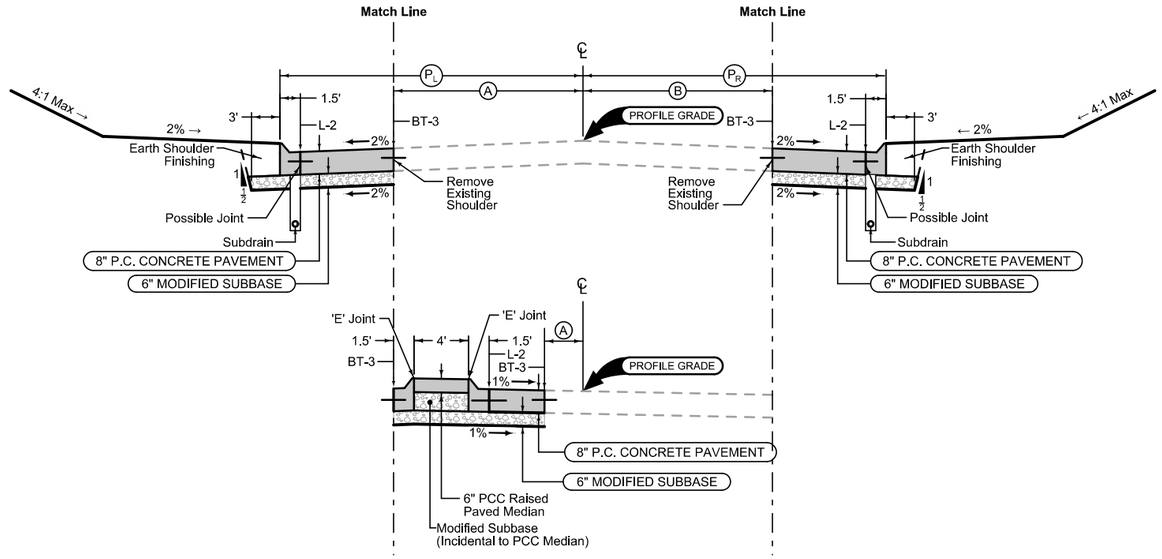
V2

Mainline Jointing:
Transverse joints: CD Match Existing (17' Max. spacing)

STATION TO STATION		(A) Feet	(P_L) Feet
3686+11.37	3687+69.74	16.1-16.3	22.2-25.2
3687+69.74	3687+99.74	3.42-3.59	27.53-29.15
3693+49.60	3695+75.48	12.63-25.55	15.63-30.91

Mainline Jointing:
Transverse joints: CD Match Existing (17' Max. spacing)

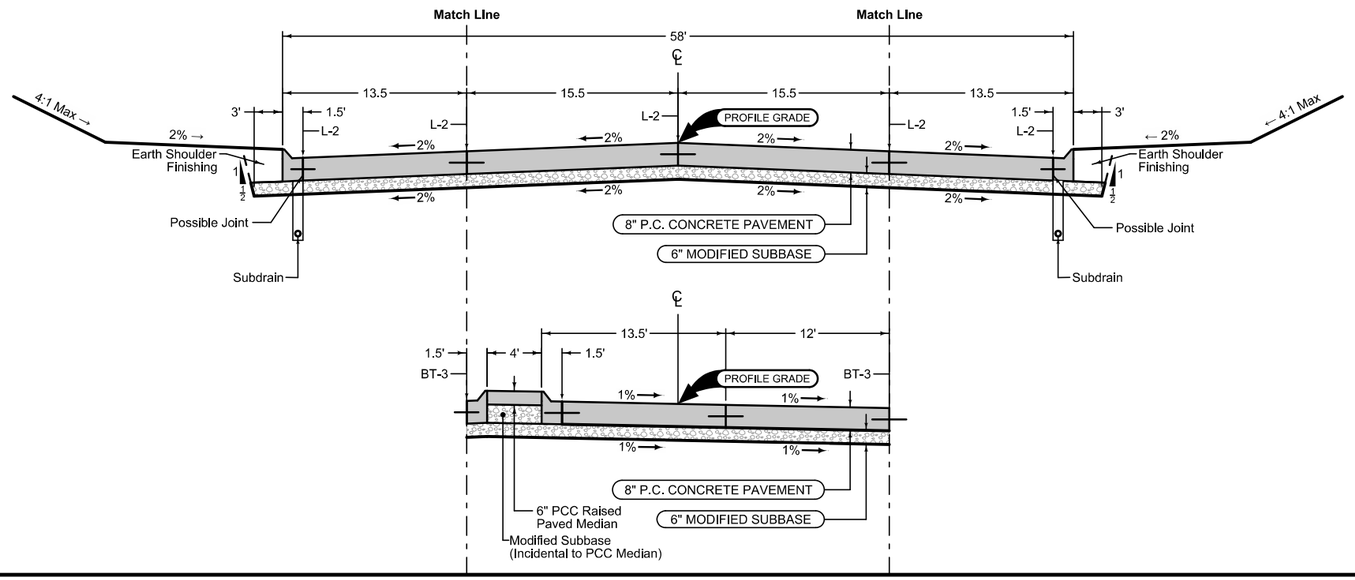
STATION TO STATION		(A) Feet	(P_L) Feet
3687+99.74	3688+29.96	3.55	29.15-29.00
3688+29.96	3690+13.81	-0.34	29.00



Mainline Jointing:
Transverse joints: CD Match Existing (17' Max. spacing)

STATION TO STATION		(B) Feet	(P_R) Feet
3686+61.78	3688+08.86	17.41-21	23.45-29
3688+08.86	3690+13.81	21	29
3693+49.60	3695+75.37	2.20-13.62	29-16.10

LANE WIDENING
NW 111th Street



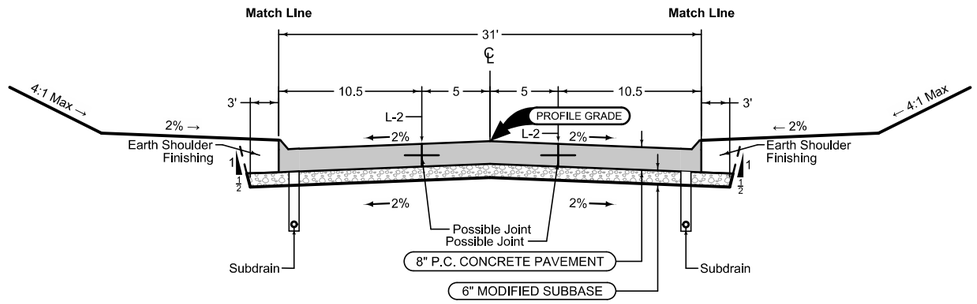
Mainline Jointing:
Transverse joints: CD at 17' spacing
Longitudinal joint: L-2

2P_ 04-21-20	
STATION TO STATION	
3690+59.51	3690+77.90
3691+97.90	3693+49.60

Mainline Jointing:
Transverse joints: CD at 17' spacing
Longitudinal joint: L-2

2P_ 04-21-20	
STATION TO STATION	
3690+13.81	3690+59.51

NW 111th Street



Mainline Jointing:
Transverse joints: CD at 17' spacing
Longitudinal joint: L-2

2P_ 04-21-20	
STATION TO STATION	
33690+38.03	33691+33.79

Frontage Road

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER B.5	

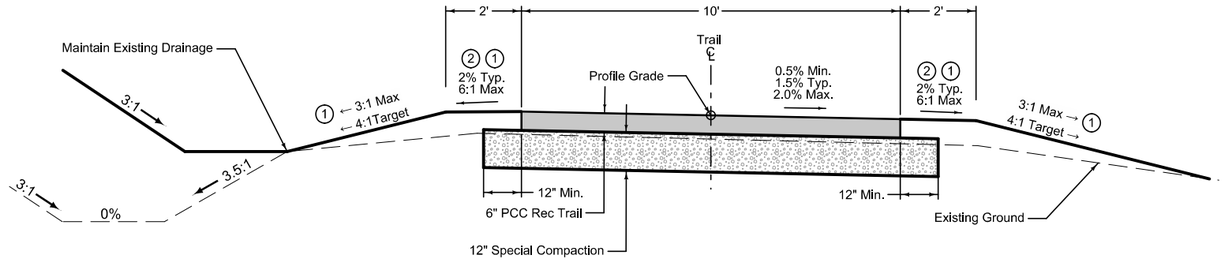
10:47:28 AM 7/1/2026 ncarhoff pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\7708006015\Design_(274)_US6 GradePave\CADD_Files\Sheet_Files\SHT_77080274Z08_B01.dgn

V2

Note:
See V Sheets for pedestrian bridge information.

(1) REFER TO CROSS SECTIONS FOR FORESLOPE AND BACKSLOPE GRADING.

(2) SHAPING AND FINISHING OF SHOULDERS TO MAINTAIN POSITIVE DRAINAGE AWAY FROM TRAIL IS REQUIRED THROUGHOUT THE PROJECT.



Note:
Refer to cross sections for trail cross-slope directions.

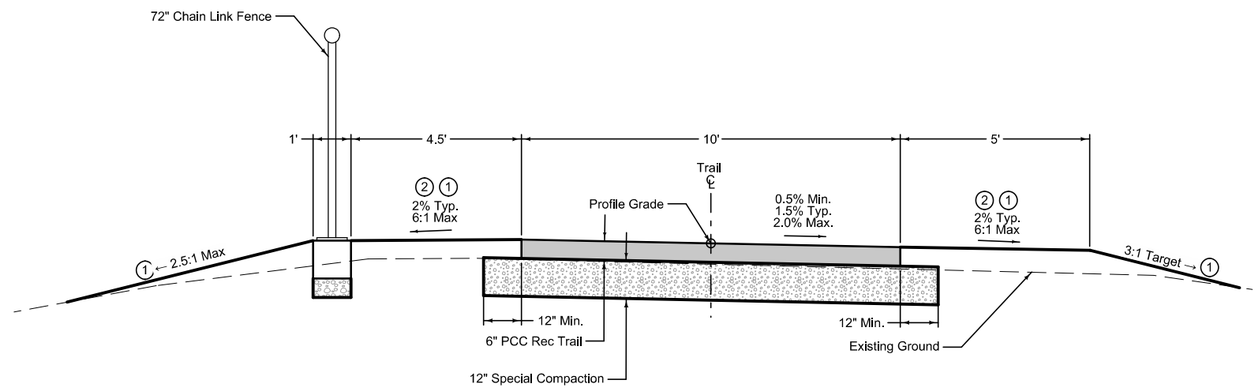
Location	
STATION TO STATION	
50051+00.00	50058+75.88
50074+15.28	50086+21.83
60014+82.19	60015+39.29
60017+94.64	60018+07.48
60019+74.44	60019+88.08

Joint: C Joint at 10' spacing

Note:
See V Sheets for pedestrian bridge information.

(1) REFER TO CROSS SECTIONS FOR FORESLOPE AND BACKSLOPE GRADING.

(2) SHAPING AND FINISHING OF SHOULDERS TO MAINTAIN POSITIVE DRAINAGE AWAY FROM TRAIL IS REQUIRED THROUGHOUT THE PROJECT.



Note:
Refer to cross sections for trail cross-slope directions.

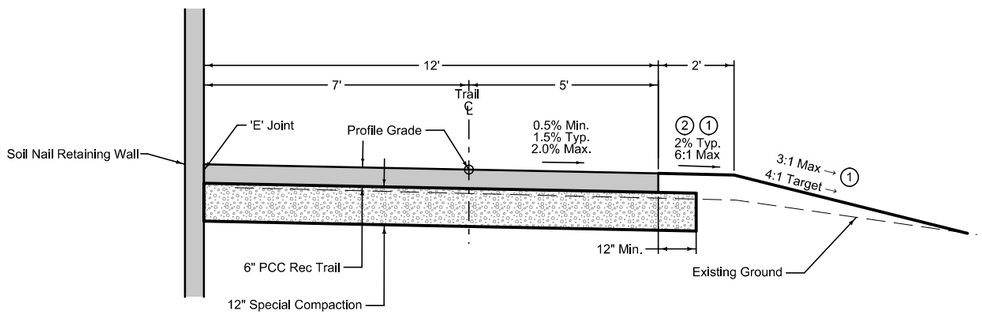
Location	
STATION TO STATION	
50061+78.40	50063+82.18
50065+93.84	50067+67.76

Joint: C Joint at 10' spacing

Note:
See V Sheets for pedestrian bridge information.

(1) REFER TO CROSS SECTIONS FOR FORESLOPE AND BACKSLOPE GRADING.

(2) SHAPING AND FINISHING OF SHOULDERS TO MAINTAIN POSITIVE DRAINAGE AWAY FROM TRAIL IS REQUIRED THROUGHOUT THE PROJECT.



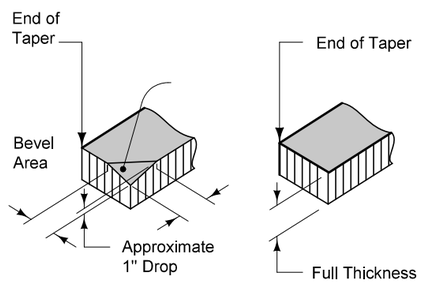
Note:
Refer to cross sections for trail cross-slope directions.

Location	
STATION TO STATION	
60018+07.48	60019+74.44

Joint: C Joint at 10' spacing

Paved Trail Typical Sections

7101
10-19-10

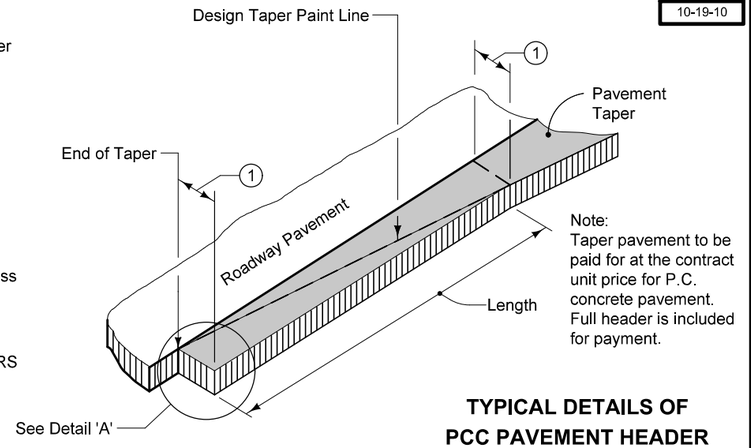


DETAIL 'A'

FOR
GRANULAR SHOULDERS

DETAIL 'A'

FOR
PAVED SHOULDERS



Note:
Taper pavement to be paid for at the contract unit price for P.C. concrete pavement. Full header is included for payment.

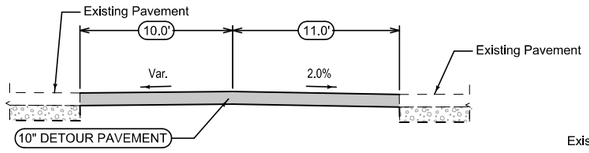
TYPICAL DETAILS OF PCC PAVEMENT HEADER

(1) Normal width is 2'-0". Construct 4'-0" width when butting into 4' wide HMA shoulders (See Typical 7154A).

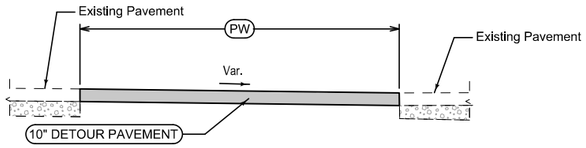
D_Detour A
Modified

LOCATION			DETOUR TYPICAL	(PW)	AREA
ROAD IDENTIFICATION	STATION TO STATION				SY
U.S. 6 (Hickman Road - Stage 1A	684+00.00	686+50.00	#1	21.0'	583.5
U.S. 6 (Hickman Road - Stage 1A	686+50.00	687+00.00	TRANSITION	21.0'	117.1
U.S. 6 (Hickman Road - Stage 1A	687+00.00	688+19.25	#2	21.0'	279.3
U.S. 6 (Hickman Road - Stage 1A	688+19.25	689+29.67	#2	VAR.	190.6
U.S. 6 (Hickman Road - Stage 1A	689+29.67	690+96.00	#2	10.0'	184.8
U.S. 6 (Hickman Road - Stage 1A	691+74.59	694+27.79	#2	10.0'	280.0
U.S. 6 (Hickman Road - Stage 1A	694+27.79	697+00.00	#2	VAR.	499.3
U.S. 6 (Hickman Road - Stage 1A	697+00.00	698+00.00	TRANSITION	VAR.	321.7
U.S. 6 (Hickman Road - Stage 1A	698+00.00	700+97.85	#3	#3	850.8
U.S. 6 (Hickman Road - Stage 1A	700+97.85	701+92.63	TRANSITION	VAR.	60.9
					3368.0

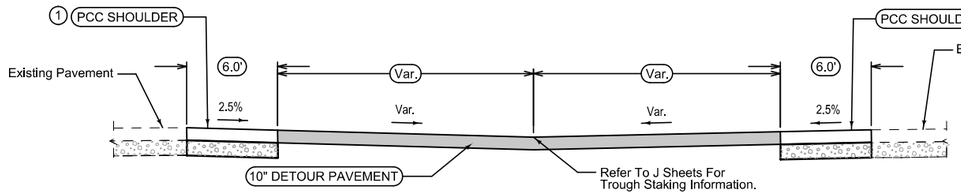
Quantity calculations based on vertical pavement edges.



DETOUR PAVEMENT TYPICAL #1



DETOUR PAVEMENT TYPICAL #2



DETOUR PAVEMENT TYPICAL #3

(1) REFER TO L SHEETS AND PAVEMENT TABULATION FOR FURTHER INFORMATION

Mainline Jointing:
Transverse joints: CD at 17' spacing
Longitudinal joint: L-2

LOCATION				DIMENSIONS		
INTERCHANGE	RAMP	STATION TO STATION		(R) Feet	(P_L) Feet	(P_R) Feet
Hickman Road	B2	24418+91.46	13421+28.66	30	9	0
Hickman Road	D1	16419+31.08	16420+68.44	30	9	4

Mainline Jointing:
Transverse joints: CD at 17' spacing
Longitudinal joint: L-2

LOCATION				DIMENSIONS		
INTERCHANGE	RAMP	STATION TO STATION		(R) Feet	(P_L) Feet	(P_R) Feet
Hickman Road	C1	15418+50.00	15418+85.60	30	9	4

Mainline Jointing:
Transverse joints: CD at 17' spacing
Longitudinal joint: L-2

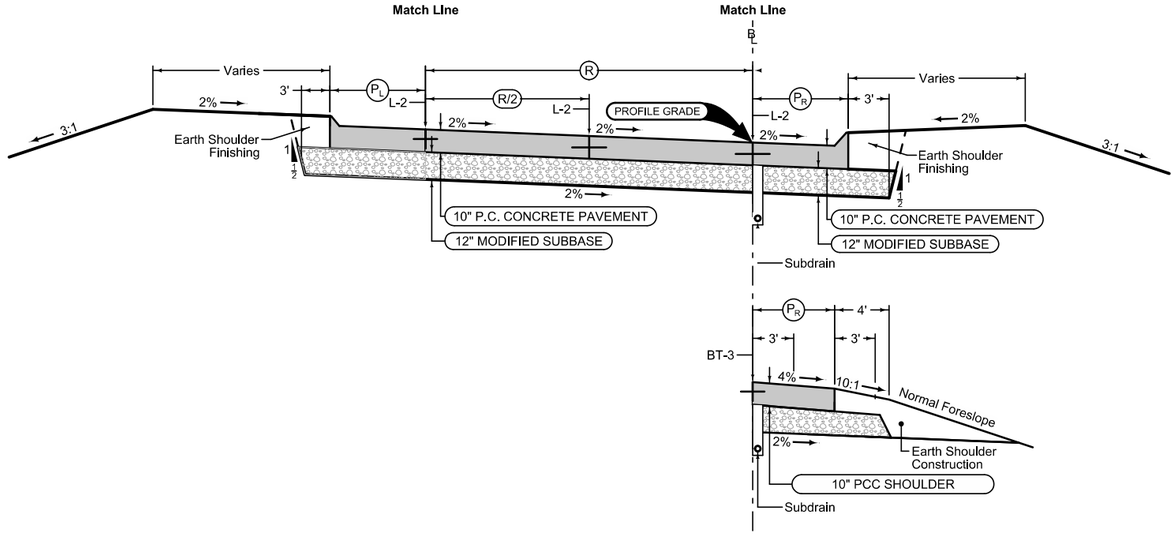
LOCATION				DIMENSIONS		
INTERCHANGE	RAMP	STATION TO STATION		(R) Feet	(P_L) Feet	(P_R) Feet
Hickman Road	B1	14418+51.94	14418+63.81	30	4	9
Hickman Road	C1	15417+11.47	15418+50.00	30	9	9

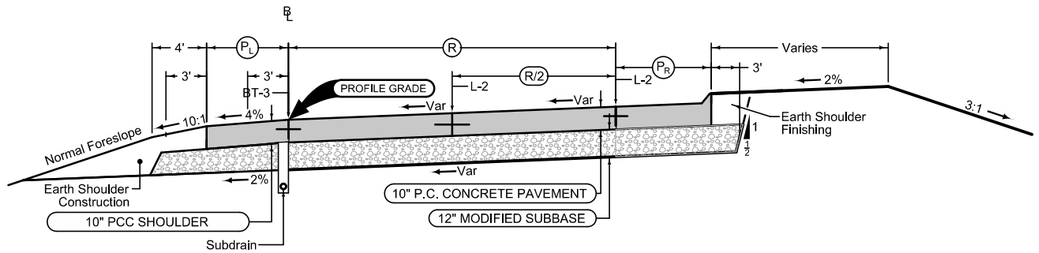
Mainline Jointing:
Transverse joints: CD Match Existing (17' Max. spacing)

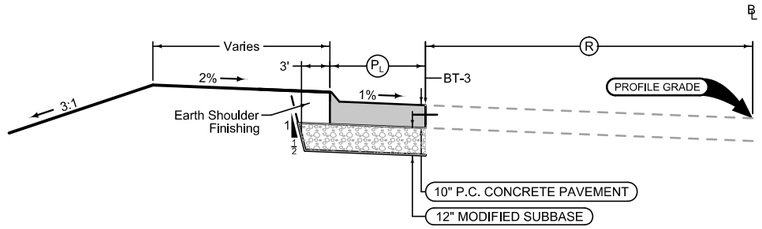
LOCATION				DIMENSIONS		
INTERCHANGE	RAMP	STATION TO STATION		(R) Feet	(P_L) Feet	(P_R) Feet
Hickman Road	A1	13420+27.91	13421+28.66	30	9	
Hickman Road	C1	15417+11.47	15418+50.00	30	9	
Hickman Road	D2	26419+82.98	26421+49.25	18	3	

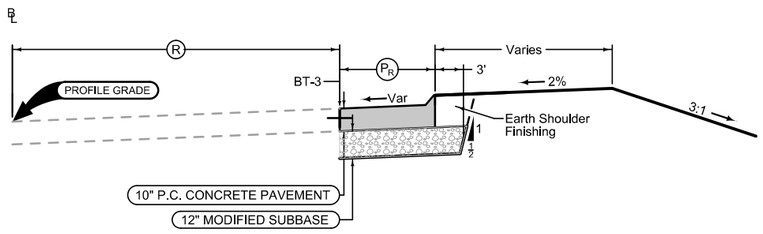
Mainline Jointing:
Transverse joints: CD Match Existing (17' Max. spacing)

LOCATION				DIMENSIONS		
INTERCHANGE	RAMP	STATION TO STATION		(R) Feet	(P_L) Feet	(P_R) Feet
Hickman Road	A2	23419+57.91	23421+01.62	27.1-30	0	5.3-9
Hickman Road	B1	14417+28.33	14418+51.94	29.1-30	0	8.6-9
Hickman Road	C2	25417+20.86	25419+48.34	18		3
Hickman Road	D1	16420+68.44	16422+01.26	30		9

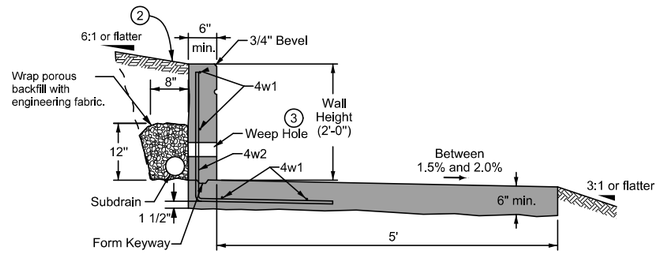




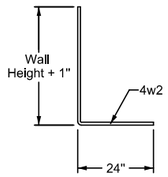




Interchange Ramps



TYPE A WALL TYPICAL SECTION



BENT BARS

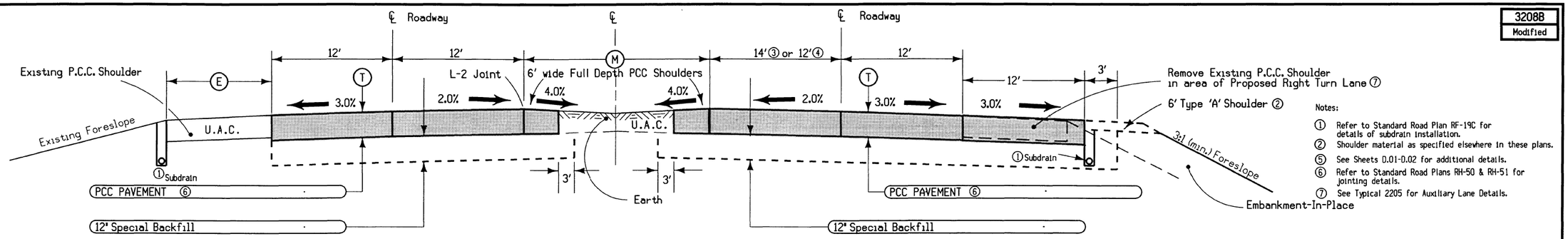
Provide a minimum concrete cover to near reinforcement of 1 1/2 inches. Provide 3 inches minimum cover at the ends of bars.

(2) Excavate and place backfill material as necessary.

(3) Provide 3 inch diameter weep holes at 8 foot intervals. Install rodent guards in weep holes. Align bottom of weep hole with top of subdrain.

REINFORCING BAR LIST					
Wall Type	Mark	Size	Shape	Length	Spacing
Type A	4w1	4	——	Variable	12"
	4w2	4	⌊_	Variable	14"

3208B
Modified



Notes:

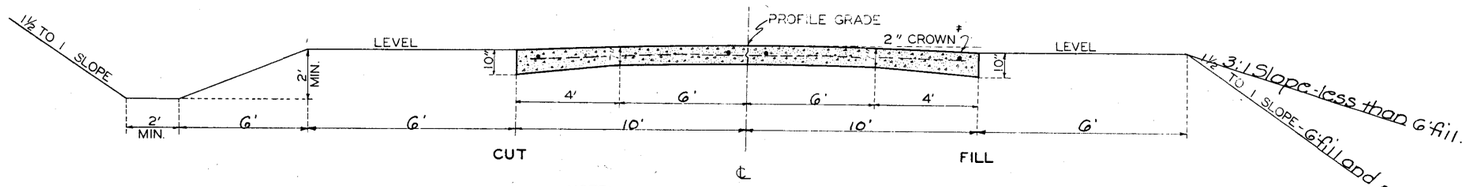
① Refer to Standard Road Plan RF-19C for details of subdrain installation.
② Shoulder material as specified elsewhere in these plans.
⑤ See Sheets D.01-D.02 for additional details.
⑥ Refer to Standard Road Plans RH-50 & RH-51 for jointing details.
⑦ See Typical 2205 for Auxiliary Lane Details.

NOTE: Normal section shown may be appropriately modified for areas specifically designated by the Engineer such as intersections or superelevated curves.

LOCATION				T	M	E	
ROAD IDENTIFICATION	STATION TO STATION (Mile Post)			Inches	Feet	Feet	
US 6 (E.B. & W.B.)	546+15 ③		547+74 ③	10.5	Vari.	10	
US 6 (E.B. & W.B.)	547+74 ④		550+80 ④	10.5	Vari.	10	

TYPICAL CROSS SECTION
4-LANE DIVIDED ROADWAY
PCC PAVEMENT WITH EARTH MEDIAN

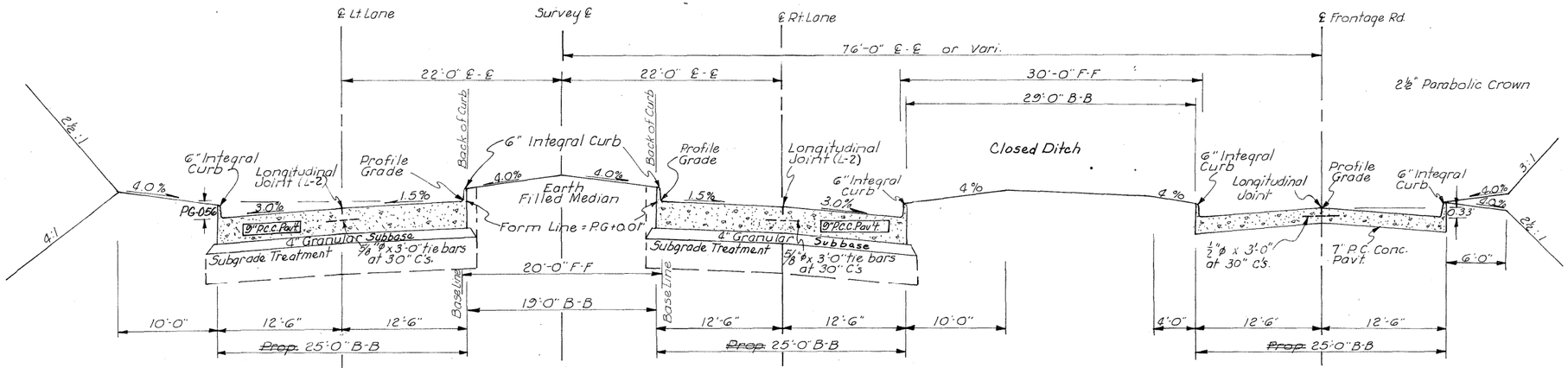
TYPICAL CROSS SECTIONS



NOTE:-
ABOVE SECTION TO BE USED EXCEPT WHERE OTHERWISE NOTED ON DETAIL PLANS
FOR SPECIAL CROSS SECTION AT BRIDGES SEE SHEET NO. 5.

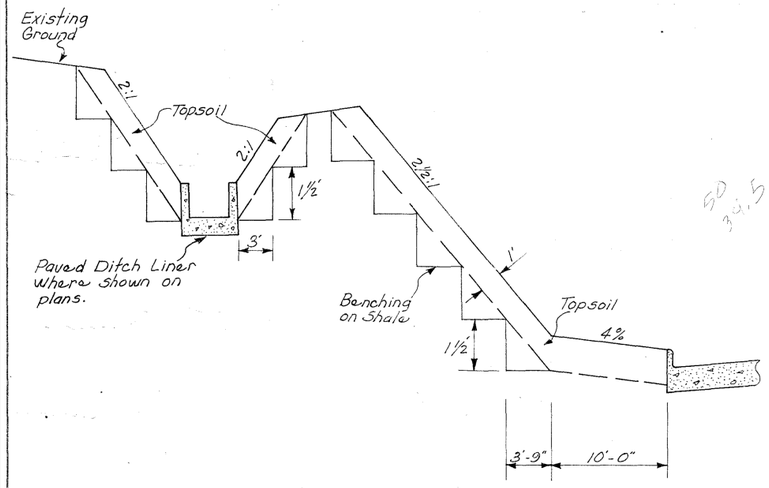
For Information Only

EXISTING TYPICAL CROSS SECTION
U.S. HWY. 6 (HICKMAN ROAD)
STP-6-4(131)---2C-77 (2003) (TOP)
PRIMARY ROAD PROJ. NO. 758 (1931) (BOTTOM)



STA. 627 + 74.4 TO STA. 635 + 50
" 635 + 50 " " 647 + 50
" 647 + 50 " " 710 + 25
(O.R) " 710 + 25 " 740 + 39 (VARI. MEDIAN)
" 740 + 43 " " 740 + 92 (WIDTH VARIES TO 49'-0" B-B)

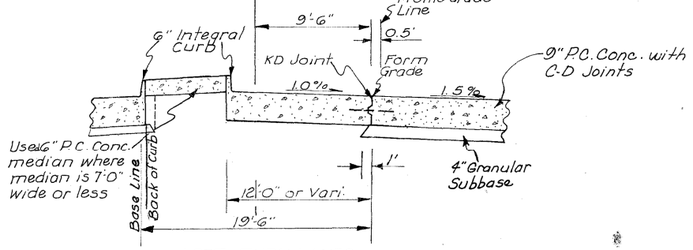
STA. 1644 + 32 TO STA. 1648 + 81 (RT. OF M. L.)
" 1648 + 81 " " 1650 + 78 (VARIES ℄ - ℄)
" 2655 + 67 " " 2657 + 65 (" " ")
" 2657 + 65 " " 2659 + 10 (LT. OF M. L)
" 2659 + 10 " " 2662 + 30 (VARIES ℄ - ℄)
" 2662 + 30 " " 2663 + 77 (LT. OF M.L.)
" 2663 + 77 " " 2665 + 75 (VARIES ℄ - ℄)
" 2695 + 48 " " 2697 + 05 (" " ")
" 2697 + 05 " " 2697 + 91 (LT. OF M.L.)
" 2718 + 38 " " 2719 + 37 (VARIES ℄ - ℄)
" 2719 + 37 " " 2721 + 35 (LT. OF M.L.)
" 1726 + 97 " " 1727 + 68 (VARIES ℄ - ℄)
" 1727 + 68 " " 1730 + 38 (RT. OF M.L.)
" 20665 + 65 " " 20668 + 95 (6' SHOULDERS)



TYPICAL IN SHALE AREA

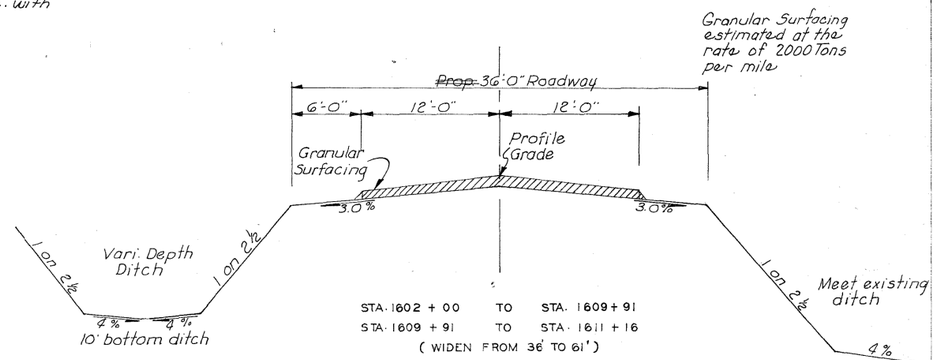
WESTBOUND LANE
STA. 635 + 50 TO STA. 642 + 50
STA. 644 + 50 TO STA. 647 + 50

EASTBOUND LANE
STA. 637 + 00 TO STA. 642 + 50
STA. 644 + 50 TO STA. 647 + 00



LEFT TURN LANES

				STORAGE LENGTH					STORAGE LENGTH
STA. 624 + 77	TO	STA. 627 + 36	RT.	(150')	STA. 687 + 53	TO	STA. 690 + 12	RT.	(150')
" 628 + 12	"	" 630 + 71	LT.	(150')	" 690 + 87	"	" 693 + 08	LT.	(102')
" 630 + 25	"	" 632 + 34	RT.	(100')	" 693 + 04	"	" 695 + 15	RT.	(102')
" 633 + 14	"	" 635 + 73	LT.	(150')	" 695 + 85	"	" 698 + 44	LT.	(150')
" 647 + 79	"	" 650 + 37	RT.	(150')	" 700 + 79	"	" 703 + 38	RT.	(150')
" 651 + 08	"	" 653 + 90	LT	(173')	" 704 + 10	"	" 706 + 19	LT.	(100')
" 652 + 80	"	" 655 + 39	RT.	(150')	" 706 + 33	"	" 708 + 92	RT.	(150')
" 656 + 09	"	" 658 + 69	LT	(150')	" 709 + 65	"	" 712 + 24	LT.	(150')
" 657 + 63	"	" 660 + 35	RT.	(163')	" 711 + 91	"	" 714 + 50	RT.	(150')
" 661 + 05	"	" 663 + 64	LT.	(150')	" 715 + 20	"	" 718 + 29	LT.	(200')
" 662 + 55	"	" 665 + 30	RT.	(166')	" 717 + 94	"	" 720 + 53	RT.	(150')
" 666 + 00	"	" 668 + 76	LT.	(167')	" 721 + 30	"	" 723 + 39	LT	(100')
" 675 + 97	"	" 678 + 56	RT.	(150')	" 730 + 76	"	" 732 + 85	LT.	(100')
" 679 + 29	"	" 681 + 88	LT.	(150')	" 731 + 76±	"	" 734 + 23	RT.	(138±)
" 667 + 67	"	" 670 + 26	RT.	(150')					
" 670 + 96	"	" 673 + 55	LT.	(150')					



STA. 1602 + 00 TO STA. 1609 + 91
STA. 1609 + 91 TO STA. 1611 + 16
(WIDEN FROM 36' TO 61')

See Sheet No. 2 for Notes

TYPICAL SECTIONS

For Information Only

EXISTING TYPICAL CROSS SECTION
U.S. HWY. 6 (HICKMAN ROAD)
UN-6-4(4)--41-77 (1970)

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER B.11

11:53:14 AM 7/1/2026 ncarhoff pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\7708006015\Design_(274)_US6 GradePave\CADD_Files\Sheet_Files\SHT_77080274Z08_B01.dgn

ESTIMATED PROJECT QUANTITIES AND REFERENCE NOTES

Roadway Items : Roadway Items

Project Enhancements : City Funded Project Enhancements

Item no.	Item Code	Item	Unit	Quantities			Estimate Reference Notes
				Estimated			
				Roadway Items	Project Enhancements	Total	
1	2101-0850002	CLEARING AND GRUBBING	UNIT	149		149	Refer to F-Sheets and Tabulation 110-17. All material generated as a result of Clearing and Grubbing shall become the property of the contractor and must be disposed off site. All wood material must be disposed of according to Iowa Department of Agriculture and Land Stewardship Emerald Ash Borer Quarantine Order. For more information see www.iowatreepests.com.
2	2102-2710070	EXCAVATION, CLASS 10, ROADWAY AND BORROW	CY	21,995	2,444	24,439	ROADWAY ITEMS: Refer to Tabulation 103-7 on Sheet CS.2 and T-Sheets. Item includes material needed for detour pavement. Overhaul will not be measured or paid for and shall be considered incidental to earthwork items. PROJECT ENHANCEMENTS: Quantity for portion of project Class 10 Excavation associated with landscaped medians. Quantity is calculated as a percentage of project quantity and is not tabulated separately in the T-Sheets.
3	2102-2710090	EXCAVATION, CLASS 10, WASTE	CY	2,587		2,587	Refer to Tabulation 103-7 on Sheet CS.2 and T-Sheets. Item also includes material needed for detour pavement. Dispose Class 10 waste material off-site. Overhaul will not be measured or paid for and shall be considered incidental to earthwork items.
4	2105-8425005	TOPSOIL, FURNISH AND SPREAD	CY	1,704		1,704	Refer to Tabulation 103-7 on Sheet CS.2 and T-Sheets. Strip depth varies, template quantity based on 6-inch depth. Place 6-inches of topsoil on both mainline and side road. Sufficient field measurements shall be taken to assure reasonable conformity with the required depth of cut. Excess material may be wasted on site in areas designated by the Engineer.
5	2105-8425011	TOPSOIL, SPREAD	CY	420		420	
6	2105-8425015	TOPSOIL, STRIP, SALVAGE AND SPREAD	CY	2,860		2,860	
7	2105-8425020	TOPSOIL, STRIP AND STOCKPILE	CY	420		420	
8	2107-0875100	COMPACTION WITH MOISTURE CONTROL	CY	18,787		18,787	Refer to Tabulation 103-6 on Sheet CS.1 and T-Sheets. Cubic yards shown on the contract documents as determined by the template fill volume. Shrinkage is not included in the moisture control quantity.
9	2107-3825025	GRANULAR MATERIAL FOR BLANKET AND SUBDRAIN	CY	441		441	Refer to Tabulation 104-5C on Sheet CS.3.
10	2115-0100000	MODIFIED SUBBASE	CY	15,778.9		15,778.9	Refer to typical sections in the B-Sheets, Tabulation 100-24, and Tabulation 112-9.
11	2122-5190010	PAVED SHOULDER, P.C. CONCRETE, 10 IN.	SY	600.6		600.6	Refer to typical section in the B-Sheets and Tabulation 112-9.

Item no.	Item Code	Item	Unit	Quantities			Estimate Reference Notes
				Estimated			
				Roadway Items	Project Enhancements	Total	
12	2123-7450000	SHOULDER CONSTRUCTION, EARTH	STA	28.9	51.1	80	ROADWAY ITEMS: Refer to Typical Sections in B Sheets and Tabulation 112-9. Includes backfill and finish grading used to shape shoulder following paving operations. Volumes listed in Tab 112-9 include topsoil. Requires a minimum of 4-inchse of topsoil. Place according to Article 2105.03B of the Standard Specifications. There will be no additional compensation for overhaul of excess materials. There is no excess topsoil available for Earth Shoulder Construction. PROJECT ENHANCEMENTS: Grading required to backfill and shape shoulder area following recreational trail paving operations. Refer to typical sections in the B-Sheets. Requires a minimum of 4-inches of topsoil. Place according to Article 2105.03, B of the Standard Specifications.
13	2123-7450020	SHOULDER FINISHING, EARTH	STA	95.6		95.6	ROADWAY ITEMS: Refer to Typical Sections in B Sheets and Tabulation 112-9. Includes backfill and finish grading used to shape shoulder following paving operations. Volumes listed in Tab 112-9 include topsoil. Requires a minimum of 4-inchse of topsoil. Place according to Article 2105.03B of the Standard Specifications. There will be no additional compensation for overhaul of excess materials. There is no excess topsoil available for Earth Shoulder Construction. PROJECT ENHANCEMENTS: Grading required to backfill and shape shoulder area following recreational trail paving operations. Refer to typical sections in the B-Sheets. Requires a minimum of 4-inches of topsoil. Place according to Article 2105.03, B of the Standard Specifications.
14	2301-1034080	STANDARD OR SLIP FORM PORTLAND CEMENT CONCRETE PAVEMENT, CLASS C, CLASS 3I DURABILITY, 8 IN.	SY	3,883.8		3,883.8	Refer to typical sections on B-Sheets and Tabulation 100-24 for locations and quantities.
15	2301-1034100	STANDARD OR SLIP FORM PORTLAND CEMENT CONCRETE PAVEMENT, CLASS C, CLASS 3I DURABILITY, 10 IN.	SY	40,058.9		40,058.9	
16	2301-4875006	MEDIAN, P.C. CONCRETE, 6 IN.	SY	1,461		1,461	Refer to Tabulation 112-4.
17	2301-7000110	PAYMENT ADJUSTMENT INCENTIVE/DISINCENTIVE FOR PCC PAVEMENT THICKNESS (BY SCHEDULE)	EACH	51,413		51,413	
18	2304-0100000	DETOUR PAVEMENT	SY	3,272		3,272	Refer to typical sections on B-Sheets, Tabulation 100-24, and J-Sheets for locations, quantities, and details. Item for temporary pavement within median of Hickman Road to facilitate construction staging.
19	2317-7000110	PAYMENT ADJUSTMENT INCENTIVE/DISINCENTIVE FOR PCC PAVEMENT SMOOTHNESS (BY SCHEDULE)	EACH	32,958		32,958	
20	2401-6745625	REMOVAL OF EXISTING BRIDGE	LS	1		1	Refer to F-Sheets. Item for removal of existing bridge foundations to a depth of 5-feet below proposed roadway pavement elevation.

Item no.	Item Code	Item	Unit	Quantities			Estimate Reference Notes
				Estimated			
				Roadway Items	Project Enhancements	Total	
21	2401-6750001	REMOVALS, AS PER PLAN	LS	1		1	Includes all work for removal and off-site disposal of existing 4' x 6' RCB at Sta. 672+40, previously capped and abandoned. Removal of scheduled items shall be in accordance with Section 2401, of the Standard Specifications. Any damage to material not to be removed shall be the responsibility of the Contractor and repaired at no extra cost to the state.
22	2403-0100000	STRUCTURAL CONCRETE (MISCELLANEOUS)	CY		32	32	Refer to U-Sheets. Items associated with architectural monuments installed within the Hickman Road median, under the I-80/35 Bridges and pedestrian tunnel entry features. Provide Class C concrete.
23	2404-7775000	REINFORCING STEEL	LB		1,541.5	1,541.5	
24	2408-7800000	STRUCTURAL STEEL	LB		12,389	12,389	
25	2414-6445100	STRUCTURAL STEEL PEDESTRIAN HAND RAILING	LF	70		70	Item for safety railing along segmental block wall along NW 111th Street. Refer to E-Sheets and Sheets V.1 and V.2 for location and details.
26	2416-0100015	APRONS, CONCRETE, 15 IN. DIA.	EACH	1		1	Refer to Tabulation 104-3, Tabulation 300-99, and M-Sheets.
27	2416-0100030	APRONS, CONCRETE, 30 IN. DIA.	EACH	2		2	
28	2416-0100042	APRONS, CONCRETE, 42 IN. DIA.	EACH	1		1	
29	2416-0102230	APRON, LOW CLEARANCE CONCRETE, EQUIVALENT DIAMETER 30 IN.	EACH	1		1	
30	2416-1180030	CULVERT, CONCRETE ROADWAY PIPE, 30 IN. DIA.	LF	4		4	Refer to Tabulation 104-3, and VW-Sheets.
31	2416-1200230	CULVERT, LOW CLEARANCE CONCRETE ROADWAY PIPE, EQUIVALENT DIAMETER 30 IN.	LF	8		8	
32	2431-0000100	SEGMENTAL BLOCK RETAINING WALL	SF	154.5		154.5	Install Segmental Block Wall along east side of NW 111th Street. Refer to E-Sheets and Sheet V.1 for location and details.
33	2435-0140148	MANHOLE, STORM SEWER, SW-401, 48 IN.	EACH	6		6	Refer to Tabulation 300-99, and M-Sheets.
34	2435-0140160	MANHOLE, STORM SEWER, SW-401, 60 IN.	EACH	2		2	
35	2435-0140172	MANHOLE, STORM SEWER, SW-401, 72 IN.	EACH	2		2	
36	2435-0140184	MANHOLE, STORM SEWER, SW-401, 84 IN.	EACH	2		2	
37	2435-0250100	INTAKE, SW-501	EACH	2		2	
38	2435-0250700	INTAKE, SW-507	EACH	12		12	
39	2435-0250714	INTAKE, SW-507 MODIFIED, TOP ONLY	EACH		4	4	Refer to Tabulation 300-99, and M-Sheets. Item used to direct roadway storm water to bioretention cells. Refer to U-Sheets for locations. Details on Sheet U.6.
40	2435-0250800	INTAKE, SW-508	EACH	3		3	Refer to Tabulation 300-99, and M-Sheets.
41	2435-0250900	INTAKE, SW-509	EACH	5		5	

Item no.	Item Code	Item	Unit	Quantities			Estimate Reference Notes
				Estimated			
				Roadway Items	Project Enhancements	Total	
42	2435-0251000	INTAKE, SW-510	EACH	2		2	
43	2435-0251224	INTAKE, SW-512, 24 IN.	EACH		2	2	Item to be used in bioretention cells. Refer to M-Sheets and U-Sheets for locations and details.
44	2435-0251236	INTAKE, SW-512, 36 IN.	EACH		2	2	
45	2435-0254500	INTAKE, SW-545	EACH	7		7	Refer to Tabulation 300-99, and M-Sheets. Provide 12' Length of Opening (LO)
46	2435-0700010	CONNECTION TO EXISTING MANHOLE	EACH	1		1	Refer to Tabulation 300-99, and M-Sheets.
47	2435-0700020	CONNECTION TO EXISTING INTAKE	EACH	2		2	
48	2502-8212034	SUBDRAIN, LONGITUDINAL, (SHOULDER) 4 IN. DIA.	LF	6,734.6		6,734.6	Refer to typical sections on the B-Sheets and Tabulation 104-9A. Cleanouts shall be considered incidental to this item.
49	2502-8213104	SUBDRAIN, PVC, STANDARD, NON-PERFORATED, 4 IN.	LF		301	301	Refer to Tabulation 300-99, and M-Sheets. Item for drainage associated with architectural monuments installed within the Hickman Road median, under the I-80/35 Bridges. Floor drains, cleanouts, and fittings shall be considered incidental to this item.
50	2502-8221303	SUBDRAIN OUTLET, DR-303	EACH	28		28	Refer to Tabulation 104-9A.
51	2503-0110018	STORM SEWER GRAVITY MAIN, TRENCHED, 18 IN.	LF	9		9	Refer to J-Sheets, Tabulation 300-99, and M-Sheets.
52	2503-0110024	STORM SEWER GRAVITY MAIN, TRENCHED, 24 IN.	LF	93		93	
53	2503-0110036	STORM SEWER GRAVITY MAIN, TRENCHED, 36 IN.	LF	66		66	
54	2503-0114215	STORM SEWER GRAVITY MAIN, TRENCHED, REINFORCED CONCRETE PIPE (RCP), 2000D (CLASS III), 15 IN.	LF	1,262	306	1,568	Refer to Tabulation 300-99, and M-Sheets. Refer to Tabulation 300-99, and RU, RR, and M-Sheets.
55	2503-0114218	STORM SEWER GRAVITY MAIN, TRENCHED, REINFORCED CONCRETE PIPE (RCP), 2000D (CLASS III), 18 IN.	LF	244		244	Refer to Tabulation 300-99, and M-Sheets.
56	2503-0114224	STORM SEWER GRAVITY MAIN, TRENCHED, REINFORCED CONCRETE PIPE (RCP), 2000D (CLASS III), 24 IN.	LF	453		453	
57	2503-0114230	STORM SEWER GRAVITY MAIN, TRENCHED, REINFORCED CONCRETE PIPE (RCP), 2000D (CLASS III), 30 IN.	LF	1,375		1,375	
58	2503-0114236	STORM SEWER GRAVITY MAIN, TRENCHED, REINFORCED CONCRETE PIPE (RCP), 2000D (CLASS III), 36 IN.	LF	239		239	
59	2503-0114242	STORM SEWER GRAVITY MAIN, TRENCHED, REINFORCED CONCRETE PIPE (RCP), 2000D (CLASS III), 42 IN.	LF	56		56	
60	2503-0124215	STORM SEWER GRAVITY MAIN, TRENCHLESS, REINFORCED CONCRETE PIPE (RCP), 2000D (CLASS III), 15 IN.	LF	205		205	

Item no.	Item Code	Item	Unit	Quantities			Estimate Reference Notes
				Estimated			
				Roadway Items	Project Enhancements	Total	
61	2503-0124224	STORM SEWER GRAVITY MAIN, TRENCHLESS, REINFORCED CONCRETE PIPE (RCP), 2000D (CLASS III), 24 IN.	LF	240		240	
62	2503-0124230	STORM SEWER GRAVITY MAIN, TRENCHLESS, REINFORCED CONCRETE PIPE (RCP), 2000D (CLASS III), 30 IN.	LF	113		113	
63	2503-0200036	REMOVE STORM SEWER PIPE LESS THAN OR EQUAL TO 36 IN.	LF	1,496		1,496	Refer to Tabulation 110-14. Includes removal of existing 2' x 3' RCB at Sta. 684+28.
64	2503-0200236	REMOVE AND REINSTALL STORM SEWER PIPE LESS THAN OR EQUAL TO 36 IN.	LF	56		56	Refer to Tabulation 300-99, and M-Sheets.
65	2503-0200341	STORM SEWER ABANDONMENT, FILL AND PLUG, LESS THAN OR EQUAL TO 36 IN. DIA.	LF	88		88	Refer to Tabulation 110-14.
66	2510-6745850	REMOVAL OF PAVEMENT	SY	42,099.1		42,099.1	Refer to Tabulation 110-8. If the removal limits are within 2-feet of an existing joint, extend removal to the joint. The Contractor is responsible for replacing any damaged pavement beyond the removal limits, no additional payment will be allowed for this work.
67	2510-6750600	REMOVAL OF INTAKES AND UTILITY ACCESSES	EACH	15		15	Refer to Tabulation 110-15.
68	2511-0302600	RECREATIONAL TRAIL, PORTLAND CEMENT CONCRETE, 6 IN.	SY		3,580.6	3,580.6	Refer to Tabulation 301-99.
69	2511-0310100	SPECIAL COMPACTION OF SUBGRADE FOR RECREATIONAL TRAIL	STA		34.5	34.5	Provide special compaction of subgrade under all recreational trail pavement. Refer to typical sections on the B-Sheets.
70	2511-6745900	REMOVAL OF SIDEWALK	SY	397.8		397.8	Refer to Tabulation 110-05.
71	2511-7526005	SIDEWALK, P.C. CONCRETE, 5 IN.	SY	187.6		187.6	Refer to Tabulation 301-99. Refer to S-Sheets and Tabulation 113-1A for locations and staking information. Detectable warning panels shall be plain cast iron (unpainted). Submit shop drawing for approval prior to construction.
72	2511-7528101	DETECTABLE WARNINGS	SF	194		194	
73	2512-1725306	CURB AND GUTTER, P.C. CONCRETE, 3.0 FT.	LF	703.8		703.8	Refer to Tabulation 100-05 for location and details.
74	2515-6745600	REMOVAL OF PAVED DRIVEWAY	SY	490.8		490.8	Refer to Tabulation 110-08. If the removal limits are within 2-feet of an existing joint, extend removal to the joint. The Contractor is responsible for replacing any damaged pavement beyond the removal limits, no additional payment will be allowed for this work.
75	2516-8625000	COMBINED CONCRETE SIDEWALK AND RETAINING WALL	CY	4.3		4.3	Refer to Tabulation 108-18 and E-Sheets. Refer to detail on B-Sheets. Install combined concrete sidewalk and retaining wall along west side of NW 111th Street.
76	2519-1002072	FENCE, CHAIN LINK, 72 IN. HEIGHT	LF		420.8	420.8	Item for fencing installed along recreational trail within infields of the interchange. Refer to Tabulation 100-7 and U-Sheets for locations and details. Provide 72-inch tall black vinyl coated fencing. Install per manufacturer's recommendations, square off the top of footings to match landscape edger.
77	2520-3350015	FIELD OFFICE	EACH	1		1	
78	2526-8285020	CONSTRUCTION SURVEY, CONTROL POINT SURVEY	LS	1		1	

Item no.	Item Code	Item	Unit	Quantities			Estimate Reference Notes
				Estimated			
				Roadway Items	Project Enhancements	Total	
79	2526-8285040	CONSTRUCTION SURVEY, LOCATION SURVEY	LS	1		1	
80	2527-9263137	PAINTED SYMBOLS AND LEGENDS, WATERBORNE OR SOLVENT-BASED	EACH	47		47	Refer to J-Sheets for Layout. Refer to Tabulation 108-22 and Tabulation 108-29. To minimize damage to pavement, all pavement markings shall be removed with water blasting.
81	2527-9263181	PAVEMENT MARKINGS REMOVED	STA	120.17		120.17	
82	2527-9263190	SYMBOLS AND LEGENDS REMOVED	EACH	5		5	
83	2527-9263209	PAINTED PAVEMENT MARKINGS, WATERBORNE OR SOLVENT-BASED	STA	607.19		607.19	
84	2528-2518000	SAFETY CLOSURE	EACH	12		12	Refer to J-Sheets and Tabulation 108-13A.
85	2528-8400157	TEMPORARY FLOODLIGHTING LUMINAIRE	EACH	6		6	Provide temporary lighting when nighttime work is required. This includes paving temporary pavement in Stage 1A. Refer to Tabulation 108-27 in the J-Sheets.
86	2528-8445110	TRAFFIC CONTROL	LS	1		1	Refer to J-Sheets. Traffic Control includes installation, maintenance and removal of detour signs.
87	2528-9109020	TEMPORARY LANE SEPARATOR SYSTEM	LF	2,273		2,273	Refer to J-Sheets and Tabulation 108-35.
88	2528-9290050	PORTABLE DYNAMIC MESSAGE SIGN (PDMS)	CDAY	0		0	Refer to Proposal. Refer to J-Sheets. Provide 4 PDMS.
89	2533-4980005	MOBILIZATION	LS	1		1	- -
90	2554-0114012	WATER MAIN, TRENCHED, POLYVINYL CHLORIDE PIPE (PVC), 12 IN.	LF		135	135	Refer to MWM-Sheets for locations and details.
91	2554-0124012	WATER MAIN, TRENCHLESS, POLYVINYL CHLORIDE PIPE (PVC), 12 IN.	LF		235	235	
92	2554-0202200	FITTINGS BY COUNT, DUCTILE IRON, 11.25 DEGREE BEND 12 IN.	EACH		1	1	
93	2554-0202200	FITTINGS BY COUNT, DUCTILE IRON, 12 IN. x 12 IN. TEE	EACH		1	1	
94	2554-0202200	FITTINGS BY COUNT, DUCTILE IRON, 45 DEGREE BEND 12 IN.	EACH		2	2	
95	2554-0207012	VALVE, GATE, DIP, 12 IN.	EACH		1	1	
96	2554-0210201	FIRE HYDRANT ASSEMBLY, WM-201	EACH		2	2	Refer to MWM-Sheets for locations and details. Item includes anchor tee needed to transition from 12" main to 6" hydrant anchor pipe.
97	2554-0211012	FLUSHING DEVICE (BLOWOFF), 12 IN.	EACH		1	1	Refer to MWM-Sheets for locations and details.
98	2554-0212040	VALVE BOX ADJUSTMENT, MINOR	EACH	1		1	Refer to Tabulation 104-10 and MWM-Sheets.

V2

Item no.	Item Code	Item	Unit	Quantities			Estimate Reference Notes
				Estimated			
				Roadway Items	Project Enhancements	Total	
99	2599-9999003	('CUBIC YARDS' ITEM) PLANTER BED AMENDED SOIL	CY		494.8	494.8	Item is for placement of amended soil to be used at all shrub and ornamental grass beds. Refer to U-Sheets for placement locations. Amended soil shall consist of the following: -Topsoil: 60% by volume -Organic matter: 30% by volume -Sand: 10% by volume Organic matter is to be a product of peat moss, compost, or locally available organic waste free from debris, weed seeds, and insects or diseases, which may be harmful to the intended planting. Sand shall comply with Section 4110 of the Standard Specifications. Fully mix or till materials prior to placement of amended soil. Place amended soil to a depth of 12-inches. Method of Measurement: The engineer shall measure the volume of amended soil in cubic yards properly placed. Basis of Payment: The contractor shall be paid the contract unit price per cubic yard of amended soil. Payment shall be considered full compensation for plant bed preparation, furnishing all amended soil materials, mixing, and installing amended soil.
100	2599-9999005	('EACH' ITEM) BIORETENTION CELL	EACH		4	4	Refer to U-Sheets. Refer to Bioretention Cells special provision for requirements, method of measurement, and basis of payment.
101	2599-9999005	('EACH' ITEM) CONNECTION TO EXISTING WATER MAIN	EACH		2	2	Refer to MWM-Sheets for locations and details. Method of Measurement: The engineer will count each location a connection is made to the existing water main. Basis of Payment: The contractor shall be paid the contract unit price for each connection to exisitng water main. This payment shall be considered full compensation for all labor, equipment, and materials (including any temporary shoring or support), isolation and dewatering main, and repair/solid sleeve to make final connection.
102	2599-9999005	('EACH' ITEM) NATIVE GRASS PLUGS	EACH		9,403	9,403	Refer to RR-Sheets. Item is for furnishing and installing native plant plugs in native planting areas. Contractor shall determine the final plug layout and species distribution. Install native plant plugs from 50-cell trays at 24-inch on center in a triangular planting pattern. Group individual species in naturalized clusters consisting of a minimum of six (6) and a maximum of twelve (12) plugs per species grouping. Method of Measurement: The engineer will count each native plant plug installed. Basis of Payment: The contractor shall be paid the contract unit price for each native plant plug properly installed.
103	2599-9999005	('EACH' ITEM) ORNIMENTAL GRASSES	EACH		102	102	Refer to U-Sheets. Item is for furnishing and installing ornamental grasses. Furnish and install plants according to Section 2610 of the Standard Specifications. All plants shall be graded according to the American Standard for Nursery Stock. All plants shall come with a one growing season warranty. Containers shall be removed from plants. Furnish and install a three inch thick layer of shredded hardwood mulch to all ornamental grass plant beds after plants are in the ground. Mulch shall be incidental to this bid item, no additional compensation allowed. Contractor shall be responsible for all maintenance, watering prior to planting, and weeding of the plant material at four week intervals or as directed by the Engineer. Method of Measurement: The engineer will count each ornamental container plant installed. Basis of Payment: The contractor shall be paid the contract unit price for each ornamental grass properly installed.
104	2599-9999005	('EACH' ITEM) PEDESTRIAN PATH CLOSURE	EACH	7		7	Refer to J-Sheets and Tabulation 113-02. Method of Measurement: The engineer will count each Pedestrian Path Closure. Basis of Payment: The contractor shall be paid the contract unit price for each pedestrian path closure. This payment shall be considered full compensation for all labor, equipment, and materials needed to close pedestrian paths.

Item no.	Item Code	Item	Unit	Quantities			Estimate Reference Notes
				Estimated			
				Roadway Items	Project Enhancements	Total	
105	2599-9999009	('LINEAR FEET' ITEM) CONCRETE FLUME	LF		56.7	56.7	Item used in bioretention areas. Refer to U-Sheets for locations, Sheet U.7 for details. Provide concrete according to Section 2403 of the Standard Specifications. Provide reinforcement according to Section 2404 of the Standard Specifications. Method of Measurement: The engineer will measure each linear foot of concrete flume installed. Basis of Payment: The contractor shall be paid the contract unit price for each linear foot of concrete flume installed. This payment shall be considered full compensation for all labor, equipment, and materials needed to construct concrete flume per the details in these plans.
106	2599-9999009	('LINEAR FEET' ITEM) CONCRETE PAD	LF		107.7	107.7	Item used in bioretention areas. Refer to U-Sheets for locations, Sheet U.7 for details. Provide concrete according to Section 2403 of the Standard Specifications. Provide reinforcement according to Section 2404 of the Standard Specifications. Method of Measurement: The engineer will measure each linear foot of concrete pad installed. Basis of Payment: The contractor shall be paid the contract unit price for each linear foot of concrete pad installed. This payment shall be considered full compensation for all labor, equipment, and materials needed to construct concrete pad per the details in these plans.
107	2599-9999009	('LINEAR FEET' ITEM) PCC LANDSCAPE EDGER	LF		2,154	2,154	Item to provide separation between landscaped areas. Refer to U-100 Series Sheets for locations and details. Provide concrete according to Section 2301 of the Standard Specifications. Provide reinforcement according to Section 2404 of the Standard Specifications. Method of Measurement: The engineer will measure each linear foot of PCC Landscape Edger installed. Basis of Payment: The contractor shall be paid the contract unit price for each linear foot of PCC Landscape Edger. This payment shall be considered full compensation for all labor, equipment, and materials needed to construct the PCC Landscape Edger per the details in these plans.
108	2599-9999009	('LINEAR FEET' ITEM) REGENERATIVE CONVEYANCE	LF		2,098	2,098	Refer to U-Sheets. Refer to Regenerative Conveyance special provision for requirements, method of measurement, and basis of payment.
109	2599-9999009	('LINEAR FEET' ITEM) REMOVAL OF EXISTING WATER MAIN, 12 IN.	LF		240	240	Refer to MWM-Sheets for locations and details. Coordinate with City of Clive for salvage of existing valves, hydrants, and fittings. Method of Measurement: The engineer will measure each linear foot of existing water main removed. Basis of Payment: The contractor shall be paid the contract unit price for each linear foot of existing water main removed and properly disposed of offsite. This payment shall be considered full compensation for all labor, equipment, and materials (including any temporary shoring or support). Backfill and compact trench excavation per Standard Specifications.
110	2599-9999009	('LINEAR FEET' ITEM) WATER MAIN ABANDONMENT, FILL AND PLUG, LESS THAN OR EQUAL TO 36 IN. DIA.	LF		110	110	Refer to MWM-Sheets for locations and details. Method of Measurement and Basis of Payment shall be according to Section 2503 of the Standard Specifications.
111	2599-9999014	('SQUARE FEET' ITEM) LIMESTONE VENEER	SF		341	341	Refer to U-Sheets. Item associated with architectural monuments installed within the Hickman Road median, under the I-80/35 Bridges. Method of Measurement: The engineer will measure the square feet of limestone veneer installed. Basis of Payment: The contractor shall be paid the contract unit price for each square foot of limestone veneer furnished and installed. This payment shall be considered full compensation for furnishing all materials, equipment, and labor necessary to install limestone veneer as per this plan.
112	2599-9999014	('SQUARE FEET' ITEM) PRECAST CAP	SF		186.5	186.5	Refer to U-Sheets. Item associated with architectural monuments installed within the Hickman Road median, under the I-80/35 Bridges. Method of Measurement: The engineer will measure the square feet of precast cap installed. Basis of Payment: The contractor shall be paid the contract unit price for each square foot of precast cap furnished and installed. This payment shall be considered full compensation for furnishing all materials, equipment, and labor necessary to install precast cap as per this plan.

Item no.	Item Code	Item	Unit	Quantities			Estimate Reference Notes
				Estimated			
				Roadway Items	Project Enhancements	Total	
113	2599-9999018	('SQUARE YARDS' ITEM) MEDIAN, P.C. CONCRETE, 8 IN., COLORED	SY		868	868	Item for decorative colored concrete median under I-80/35 Bridges over Hickman Road. Refer to U-100 Series Sheets for locations and details. Provide concrete according to Section 2301 of the Standard Specifications. Method of Measurement: The engineer will measure square yard of Colored Concrete Median properly installed. Basis of Payment: The contractor shall be paid the contract unit price for each square yard of Colored Concrete Median. This payment shall be considered full compensation for all labor, equipment, and materials needed to construct the Colored Concrete Median per the details in these plans.
114	2599-9999018	('SQUARE YARDS' ITEM) PCC MAINTENANCE PAD	SY		3,180	3,180	Item for concrete maintenance pads within medians of Hickman Road. Refer to U-100 Series Sheets for locations and details. Provide concrete according to Section 2301 of the Standard Specifications. Method of Measurement: The engineer will measure square yard of concrete maintenance pad installed. Basis of Payment: The contractor shall be paid the contract unit price for each square yard of concrete maintenance pad installed. This payment shall be considered full compensation for all labor, equipment, and materials needed to construct the maintenance pads per the details in these plans.
115	2599-9999018	('SQUARE YARDS' ITEM) PCC SPLASH GUARD	SY		720	720	Item for strip of concrete behind back of curb along Hickman Road landscaped medians. Refer to U-100 Series Sheets for locations and details. Provide concrete according to Section 2301 of the Standard Specifications. Method of Measurement: The engineer will measure square yard of splash guard installed. Basis of Payment: The contractor shall be paid the contract unit price for each square yard of splash guard installed. This payment shall be considered full compensation for all labor, equipment, and materials needed to construct the splash guard per the details in these plans.
116	2599-9999018	('SQUARE YARDS' ITEM) PLANTER BED MULCH	SY		990	990	Provide 3" depth, double shredded, hardwood mulch in all planter beds. Refer to U.100 series sheets for locations and details. Method of Measurement: The engineer will measure each square yard of Planter Bed Mulch placed. Basis of Payment: The contractor shall be paid the contract unit price for each square yard of Planter Bed Mulch placed to the specified depth. This payment shall be considered full compensation for all labor, equipment, and materials needed to place mulch per the details in these plans.
117	2599-9999018	('SQUARE YARDS' ITEM) SOIL QUALITY RESTORATION	SY		1,853.8	1,853.8	Refer to U-Sheets for locations. Refer to special provision for requirements, method of measurement, and basis of payment.
118	2611-0000100	SHRUBS, FURNISHED AND INSTALLED (WITH WARRANTY)	EACH		150	150	Refer to U-Sheets for locations. All plant material shall meet minimum requirements per the "American Standards for Nursery Stock" (ANSI Z60.1-Latest Edition).
119	2611-0000200	TREES, FURNISHED AND INSTALLED (WITH WARRANTY)	EACH		32	32	Refer to U-Sheets for locations. All plant material shall meet minimum requirements per the "American Standards for Nursery Stock" (ANSI Z60.1-Latest Edition).

PROJECT DESCRIPTION

IM-080-3(274)--13-77

Grading and paving for reconstruction of Hickman Road.

This project is part of a larger tied construction project that includes multiple project numbers, refer to proposal.

Coordinate construction activities with other projects, refer to coordinated operations tabulation on J-Sheets.

The overall construction project includes completion of the pedestrian tunnel under Hickman Road, storm sewer, water main, traffic signals, roadway signing, roadway lighting, pedestrian path lighting, construction of retaining walls, roadway paving, trail paving, installation of bioretention cells, and installation of aesthetic enhancements such as architectural monuments, steel entry features at pedestrian tunnels, colored concrete, and planting trees, shrubs and grasses.

Topographic survey was conducted prior to:

Completion of the Interstate 80/35 Projects (IM-080-3(264)124--13-77 and IM-080-3(269)124--13-77), base mapping is updated to reflect proposed features from those projects as existing.

Completion of the U.S. Highway 6 (Hickman Road) & NW 128th Street Project (NHSN-006-4(189)--28-77, base mapping is updated to reflect proposed features from this project as existing.

Relocation of overhead electric, communication utilities and DMWW feeder main. Base mapping is updated to reflect proposed features from that project as existing.

Completion of a Joint Utility Trench for relocation of communication utilities. Base mapping is updated to reflect proposed features from that project as existing.

Field verify existing conditions.

STANDARDS

The following Standards apply to construction work on this project.

Number	Date	Title
BA-401	04-20-21	Temporary Barrier Rail (Precast Concrete)
BA-500	04-20-21	Temporary Crash Cushions Sand Barrel
DR-104	04-19-16	Depth of Cover Tables for Concrete and Corrugated Pipe
DR-121	04-18-23	Connected Pipe Joints
DR-122	10-18-16	Construction of Type 'C' Concrete Adaptors for Pipe Culvert Connections
DR-141	04-18-17	Pipe Bends and Half Pipe
DR-201	10-17-23	Concrete Aprons
DR-303	10-17-17	Subdrains (Longitudinal)
DR-305	04-19-22	Subdrain Outlets (Standard Subdrain, Pressure Release and Special)
DR-306	10-17-23	Precast Concrete Headwall for Subdrain Outlets
DR-621	04-18-17	Pipe Extension
EC-201	04-20-21	Silt Fence
EC-204	10-19-21	Perimeter, Slope and Ditch Check Sediment Control Devices
EC-301	10-18-22	Rock Erosion Control (REC)
EC-303	10-19-21	Stabilized Construction Entrance
EC-602	10-15-24	Open-Throat Curb Intake Sediment Filter
EC-604	10-17-23	Grate Intake Sediment Filter Bag
EW-101	10-17-17	Embankment and Rebuilding Embankments
EW-102	10-20-15	Allowable Placement of Unsuitable Soil in Embankments
LI-130	10-17-17	Temporary Floodlighting Luminaires
MI-210	10-21-25	PCC Driveways and Alleys
MI-220	04-15-25	Detectable Warnings and Pedestrian Ramp
PM-110	10-15-24	Line Types
PM-111	04-21-20	Symbols and Legends
PV-20	10-21-14	Paved Islands
PV-101	10-21-25	Joints
PV-102	10-21-25	PCC Curb Details
PV-104	10-21-25	Ramped Median Nose
PV-121	10-21-25	Jointing PCC Pavement Widening
SI-101	04-19-16	Locations - Type 'A' Signs
SW-211	10-21-25	Storm Sewer Pipe Connections
SW-401	10-21-25	Circular Storm Sewer Manhole
SW-402	10-21-25	Rectangular Storm Sewer Manhole
SW-507	10-21-25	Single Open-Throat Intake, Small Box
SW-508	10-21-25	Single Open-Throat Intake, Large Box
SW-509	10-21-25	Double Open-Throat Curb Intake, Small Box
SW-510	10-21-25	Double Open-Throat Curb Intake, Large Box
SW-512	10-21-25	Circular Area Intake
SW-513	10-21-25	Open-Sided Area Intake
SW-545	10-21-25	Single Open-Throat Curb Intake with Extended Opening
TC-1	10-15-19	Work Not Affecting Traffic (Two-Lane or Multi-Lane)
TC-402	04-18-23	Work Within 15 ft of Traveled Way
TC-433	10-17-17	Pavement Marking Operations

INDEX OF TABULATIONS

Line No.	Tabulation	Tabulation Title	Sheet No.
1.0	100_01D	PROJECT DESCRIPTION	C.100
2.0	105_04	STANDARD ROAD PLANS	C.101
3.0	111_25	INDEX OF TABULATIONS	C.102
4.0	110_17	CLEARING AND GRUBBING	C.103
5.0	102_05	EXISTING PAVEMENT	C.104
6.0	110_01	REMOVAL OF PAVEMENT	C.105
7.0	110_05	SIDEWALK REMOVAL	C.106
8.0	110_08	REMOVAL OF CONCRETE DRIVES	C.107
9.0	110_14	SANITARY OR STORM SEWER ABANDONMENT OR REMOVAL	C.108
10.0	110_15	REMOVAL OF INTAKES AND UTILITY ACCESSES	C.109
11.0	100_24	PCC PAVEMENT	C.110
12.0	112_09	SHOULDERS	C.111
13.0	301_99	SIDEWALK AND TRAIL	C.113
14.0	108_16	COMBINED CONCRETE SIDEWALK AND RETAINING WALL	C.114
15.0	100_05	CURB AND GUTTER	C.115
16.0	112_04	CURBS AND RAISED ISLANDS	C.116
17.0	102_03	ACCESS POINTS AND SAFETY RAMPS	C.117
18.0	104_10	ADJUSTMENT OF FIXTURES	C.118
19.0	100_07	FENCING	C.119
20.0	108_22	PAVEMENT MARKING LINE TYPES	C.120
21.0	108_29	PAVEMENT MARKING SYMBOLS AND LEGENDS	C.126
22.0	262_05	UTILITIES (POINT 25 PROJECT)	C.127
23.0	104_03	DRAINAGE STRUCTURE BY ROAD CONTRACTOR	CD.1
24.0	104_09A	LONGITUDINAL SUBDRAIN SHOULDER	CD.2
25.0	103_06	EMBANKMENT WITH MOISTURE CONTROL	CS.1
26.0	103_07	SHRINKAGE DATA	CS.2
27.0	104_05C	LIST OF SUBDRAIN WORK	CS.3
28.0	101_16	ALIGNMENT COORDINATES	G.4
29.0	101_17	SPIRAL OR CIRCULAR CURVE DATA	G.7
30.0	108_23A	TRAFFIC CONTROL PLAN	J.1
31.0	108_26A	STAGING NOTES	J.2
32.0	108_25	511 TRAVEL RESTRICTIONS	J.3
33.0	111_01	COORDINATED OPERATIONS	J.4
34.0	108_13A	SAFETY CLOSURES	J.5
35.0	113_02	PEDESTRIAN PATH CLOSURES	J.6
36.0	108_35	TEMPORARY LANE SEPARATOR SYSTEM	J.7
37.0	108_27	TEMPORARY FLOODLIGHTING LUMINAIRES	J.8
38.0	302_99	TABULATION OF SPECIAL EVENTS	J.9
39.0	254_01	INCIDENT MANAGEMENT	J.10
40.0	300_99	STORM SEWER	M.1
41.0	110_12	POLLUTION PREVENTION PLAN	RC.100
42.0	100_17	TABULATION OF SILT FENCES	RC.102
43.0	100_19	PERIMETER AND SLOPE SEDIMENT CONTROL DEVICE	RC.103
44.0	100_22	ROLLED EROSION CONTROL	RC.104
45.0	100_23	ROCK EROSION CONTROL	RC.105
46.0	100_34	STORMWATER DRAINAGE BASIN	RC.106
47.0	100_36	OPEN-THROAT CURB INTAKE SEDIMENT FILTER	RC.107
48.0	100_37	GRATE INTAKE SEDIMENT FILTER BAG	RC.108
49.0	113_10	SIDEWALK COMPLIANCE	S.7

CLEARING AND GRUBBING

Line No.	Station From	Station To	Direction of Traffic	Work and Material Type	>3"-6"	>6"-9"	>9"-12"	>12"-15"	>15"-18"	>18"-24"	>24"-30"	>30"-36"	>36"-42"	>42"-48"	>48"-60"	>60"-72"	>72"	Estimated Units	Estimated Area (Acres)	Estimated Herbicide Application (EA)	Remarks
1.0	681+61.00		EB	Trees - Clearing and Grubbing					1									13.5			STG 1 - U.S.6/HICKMAN
2.0	682+56.00		EB	Trees - Clearing and Grubbing			1											6.7			STG 1 - U.S.6/HICKMAN
3.0	683+22.00		EB	Trees - Clearing and Grubbing		1												3.9			STG 1 - U.S.6/HICKMAN
4.0	684+71.00		EB	Trees - Clearing and Grubbing			1											6.7			STG 1 - U.S.6/HICKMAN
5.0	684+92.00		EB	Trees - Clearing and Grubbing			1											6.7			STG 1 - U.S.6/HICKMAN
6.0	686+43.00		EB	Trees - Clearing and Grubbing			1											6.7			STG 1 - U.S.6/HICKMAN
7.0	686+62.00		EB	Trees - Clearing and Grubbing			1											6.7			STG 1 - U.S.6/HICKMAN
8.0	686+78.00		EB	Trees - Clearing and Grubbing				1										9.4			STG 1 - U.S.6/HICKMAN
9.0	687+52.00		EB	Trees - Clearing and Grubbing			1											6.7			STG 1 - U.S.6/HICKMAN
10.0	687+85.00		EB	Trees - Clearing and Grubbing			1											6.7			STG 1 - U.S.6/HICKMAN
11.0	692+28.00		EB	Trees - Clearing and Grubbing	1													1.6			STG 1 - U.S.6/HICKMAN
12.0	3688+10.00		NB	Trees - Clearing and Grubbing			1											6.7			STG 1 - 111TH ST
13.0	3688+68.00		NB	Trees - Clearing and Grubbing	1													1.6			STG 1 - 111TH ST
14.0	3689+08.00		NB	Trees - Clearing and Grubbing			1											6.7			STG 1 - 111TH ST
15.0	3689+46.00		NB	Trees - Clearing and Grubbing			1											6.7			STG 1 - 111TH ST
16.0	3693+27.00		NB	Trees - Clearing and Grubbing			1											6.7			STG 1 - 111TH ST
17.0	3693+56.00		NB	Trees - Clearing and Grubbing			1											6.7			STG 1 - 111TH ST
18.0	3693+75.00		NB	Trees - Clearing and Grubbing				1										9.4			STG 1 - 111TH ST
19.0	3693+96.00		NB	Trees - Clearing and Grubbing			1											6.7			STG 1 - 111TH ST
20.0	3694+16.00		NB	Trees - Clearing and Grubbing				1										9.4			STG 1 - 111TH ST
21.0	3694+41.00		NB	Trees - Clearing and Grubbing			1											6.7			STG 1 - 111TH ST
22.0	3687+59.00		SB	Trees - Clearing and Grubbing	1													1.6			STG 1 - 111TH ST
23.0	3688+14.00		SB	Trees - Clearing and Grubbing	1													1.6			STG 1 - 111TH ST
24.0	3688+49.00		SB	Trees - Clearing and Grubbing	1													1.6			STG 1 - 111TH ST
25.0	3689+00.00		SB	Trees - Clearing and Grubbing	1													1.6			STG 1 - 111TH ST

Division 1
CLEARING AND GRUBBING = 149.0 Units

EXISTING PAVEMENT

Line No.	County	Route	Direction of Travel	Begin Ref. Location Sign	End Ref. Location Sign	Year	Type	Project Number	Surface Type	Surface Depth (IN)	Base Type	Base Depth (IN)	Subbase Type	Subbase Depth (IN)	Removal Type	Removal Depth (IN)	Coarse Aggregate Source	Coarse Aggregate Type	Course Aggregate Durability Class	Reinforcement Type	Remarks
1.0	Polk	US-6	Both	127.27	130.85	1971		UN-6-4(4)--41-77	PCC	9.0	RPC	4.0					SE 22ND	Gravel	2		
2.0	Polk	US-6	Both	126.01	127.27	1998		STPN-6-4(119)--2C-77	PCC	11.0							AMES MINE	C. Lst	1		
3.0	Polk	US-6	Both	127.27	130.85	2003		STP-6-4(131)--2C-77	AAC	1.5	AAC	1.5					AMES MINES	C. Lst			
4.0	Polk	US-6	Both	127.27	130.85	2017	S	HSIPX-006-4(165)--3L-77	HMA	1.5	HMA	1.5			SCR	3.0					

REMOVAL OF PAVEMENT

Refer to Tabulation 102-5.

* Not a bid item.

Line No.	Station From	Station To	Side	Pavement Type	Area (SY)	Saw Cut* (LF)	Remarks
1.0	683+99.77	690+95.79	Center	HMA/PCC	579.6	1408.2	STAGE 1 - U.S. 6/HICKMAN
2.0	691+74.51	702+13.43	Center	HMA/PCC	635.4	1432.1	STAGE 1 - U.S. 6/HICKMAN
3.0	696+07.76	701+41.71	WB	HMA/PCC	233.4	538.9	STAGE 1 - U.S. 6/HICKMAN
4.0	3686+61.79	3690+38.81	NB	PCC	515.4	429.3	STAGE 1 - 111TH ST/FRONTAGE
5.0							
6.0	657+07.85	662+48.25	Center	HMA/PCC	1531.5	1142.7	STAGE 2 - U.S. 6/HICKMAN
7.0	663+71.00	679+27.77	Center	HMA/PCC	13486.7	736.4	STAGE 2 - U.S. 6/HICKMAN
8.0	680+85.35	698+19.38	EB	HMA/PCC	4873.4	1608.3	STAGE 2 - U.S. 6/HICKMAN
9.0	685+04.62	701+39.30	WB	HMA/PCC	3097.3	1655.0	STAGE 2 - U.S. 6/HICKMAN
10.0	23419+55.37	23421+14.21	SB	PCC	792.8	98.5	STAGE 2 - RAMP A_1
11.0	24417+63.22	24419+68.15	NB	HMA/PCC	537.9	24.0	STAGE 2 - RAMP B_2
12.0	25417+17.88	25419+18.38	SB	PCC	557.8	123.9	STAGE 2 - RAMP C_2
13.0	3688+15.11	3690+89.91	SB	PCC	1031.5	240.0	STAGE 2 - 111TH ST
14.0	3691+79.81	3695+75.84	Center	PCC	906.5	490.6	STAGE 2 - 111TH ST
15.0							
16.0	666+50.00	669+72.33	WB	PCC	434.0	148.0	STAGE 3 - U.S. 6/HICKMAN
17.0	667+98.98	669+23.97	EB	PCC	241.4	161.0	STAGE 3 - U.S. 6/HICKMAN
18.0	679+27.77	701+92.10	Center	HMA/PCC	10536.1	10.0	STAGE 3 - U.S. 6/HICKMAN
19.0	24417+53.22	24419+71.89	NB	PCC	1085.5	72.5	STAGE 3 - RAMP B_2
20.0	26420+28.06	26421+94.25	NB	PCC	890.3	64.9	STAGE 3 - RAMP D_2
21.0	3686+11.37	3688+15.11	SB	PCC	132.6	208.4	STAGE 3 - 111TH ST

Division 1
REMOVAL OF PAVEMENT = 42,099.10 SY
*SAWCUT = 10,592.64 LF

SIDEWALK REMOVAL

* Not a bid item

Line No.	Station From	Station To	Area (SY)	Saw Cut* (LF)	Remarks
1.0	3686+16.84	3687+66.68	87.9	15.0	STAGE 1 - 111TH ST
2.0	3687+93.47	3689+87.03	104.5	17.0	STAGE 1 - 111TH ST
3.0					
4.0	3690+30.59	3690+93.94	34.7	28.0	STAGE 2 - 111TH ST
6.0	3688+15.11	3688+65.59	23.1	11.0	STAGE 2 - 111TH ST
7.0	3688+90.95	3690+84.38	93.6	25.0	STAGE 2 - 111TH ST
8.0					
9.0	3686+50.36	3687+68.98	46.0	11.0	STAGE 3 - 111TH ST
10.0	3687+97.61	3688+15.11	8.0	7.0	STAGE 3B - 111TH ST

Division 1
SIDEWALK REMOVAL = 397.8 SY
*SAWCUT = 114 LF

REMOVAL OF CONCRETE DRIVES

* Not a Bid Item.

Line No.	Station	Side	Area (SY)	Saw Cut* (LF)	Remarks
1.0	3687+80.00	Right	108.1	25.0	STAGE 1 - 111TH ST
2.0					
3.0	3688+80.00	Left	106.0	25.0	STAGE 2 - 111TH ST
4.0	3694+80.00	Left	156.2	109.0	STAGE 2 - 111TH ST
5.0					
6.0	3687+80.00	Left	120.5	28.0	STAGE 3 - 111TH ST

Division 1
AREA = 490.8 SY
*SAWCUT = 187 LF

SANITARY OR STORM SEWER ABANDONMENT OR REMOVAL

* Not a bid item

Line No.	Location Description	Sewer and Work Type	≤ 36 inch Diameter (LF)	> 36 inch Diameter (LF)	Plug Quantity (EA)	* Flowable Mortar or CLSM (CY)	Remarks
1.0	STA 681+12 - RT	Storm Sewer - Removal	23.0				STG 1 - U.S. 6/HICKMAN
2.0	STA 681+20 - LT	Storm Sewer - Removal	36.0				STG 1 - U.S. 6/HICKMAN
3.0	STA 681+24 - LT	Storm Sewer - Removal	8.0				STG 1 - U.S. 6/HICKMAN
4.0	STA 683+71 - MD	Storm Sewer - Removal	7.0				STG 1 - U.S. 6/HICKMAN
5.0	STA 683+86 - RT	Storm Sewer - Removal	22.0				STG 1 - U.S. 6/HICKMAN
6.0	STA 684+35 - RT	Storm Sewer - Removal	21.0				STG 1 - U.S. 6/HICKMAN
7.0	STA 687+75 - RT	Storm Sewer - Removal	22.0				STG 1 - U.S. 6/HICKMAN
8.0	STA 689+60 - LT	Storm Sewer - Removal	7.0				STG 1 - U.S. 6/HICKMAN
9.0	STA 669+31 - RT	Storm Sewer - Removal	44.0				STG 2 - U.S. 6/HICKMAN
10.0	STA 675+08 - LT	Storm Sewer - Removal	21.0				STG 2 - U.S. 6/HICKMAN
11.0	STA 675+10 - MD	Storm Sewer - Removal	146.0				STG 2 - U.S. 6/HICKMAN
12.0	STA 677+91 - LT	Storm Sewer - Removal	4.0				STG 2 - U.S. 6/HICKMAN
13.0	STA 678+33 - LT	Storm Sewer - Removal	27.0				STG 2 - U.S. 6/HICKMAN
14.0	STA 678+69 - RT	Storm Sewer - Removal	122.0				STG 2 - U.S. 6/HICKMAN
15.0	STA 680+32 - LT	Storm Sewer - Removal	44.0				STG 2 - U.S. 6/HICKMAN
16.0	STA 681+14 - LT	Storm Sewer - Removal	10.0				STG 2 - U.S. 6/HICKMAN
17.0	STA 683+83 - RT	Storm Sewer - Removal	29.0				STG 2 - U.S. 6/HICKMAN
18.0	STA 684+33 - RT	Storm Sewer - Removal	29.0				STG 2 - U.S. 6/HICKMAN
19.0	STA 685+28 - LT	Storm Sewer - Removal	44.0				STG 2 - U.S. 6/HICKMAN
20.0	STA 3690+49 - LT	Storm Sewer - Removal	41.0				STG 2 - 111TH ST
21.0	STA 3690+55 - MD	Storm Sewer - Removal	57.0				STG 2 - 111TH ST
22.0	STA 3690+55 - RT	Storm Sewer - Removal	30.0				STG 2 - 111TH ST
23.0	STA 3693+03 - LT	Storm Sewer - Removal	71.0				STG 2 - 111TH ST
24.0	STA 3693+10 - MD	Storm Sewer - Removal	33.0				STG 2 - 111TH ST
25.0	STA 677+77 - RT	Storm Sewer - Removal	8.0				STG 3 - U.S. 6/HICKMAN
26.0	STA 678+92 - RT	Storm Sewer - Removal	48.0				STG 3 - U.S. 6/HICKMAN
27.0	STA 679+07 - LT	Storm Sewer - Removal	126.0				STG 3 - U.S. 6/HICKMAN
28.0	STA 679+39 - RT	Storm Sewer - Plug and Fill	45.0		2	5.2	STG 3 - U.S. 6/HICKMAN
29.0	STA 679+81 - RT	Storm Sewer - Removal	34.0				STG 3 - U.S. 6/HICKMAN
30.0	STA 680+32 - LT	Storm Sewer - Removal	91.0				STG 3 - U.S. 6/HICKMAN
31.0	STA 680+76 - MD	Storm Sewer - Removal	13.0				STG 3 - U.S. 6/HICKMAN
32.0	STA 680+76 - MD	Storm Sewer - Removal	37.0				STG 3 - U.S. 6/HICKMAN
33.0	STA 680+87 - RT	Storm Sewer - Removal	73.0				STG 3 - U.S. 6/HICKMAN
34.0	STA 681+12 - LT	Storm Sewer - Removal	73.0				STG 3 - U.S. 6/HICKMAN
35.0	STA 681+12 - RT	Storm Sewer - Plug and Fill	43.0		2	5.0	STG 3 - U.S. 6/HICKMAN
36.0	STA 683+74- MD	Storm Sewer - Removal	7.0				STG 3 - U.S. 6/HICKMAN
37.0	STA 683+74- MD	Storm Sewer - Removal	6.0				STG 3 - U.S. 6/HICKMAN
38.0	STA 683+74- RT	Storm Sewer - Removal	14.0				STG 3 - U.S. 6/HICKMAN
39.0	STA 684+31 - MD	Storm Sewer - Removal	68.0				STG 3 - U.S. 6/HICKMAN

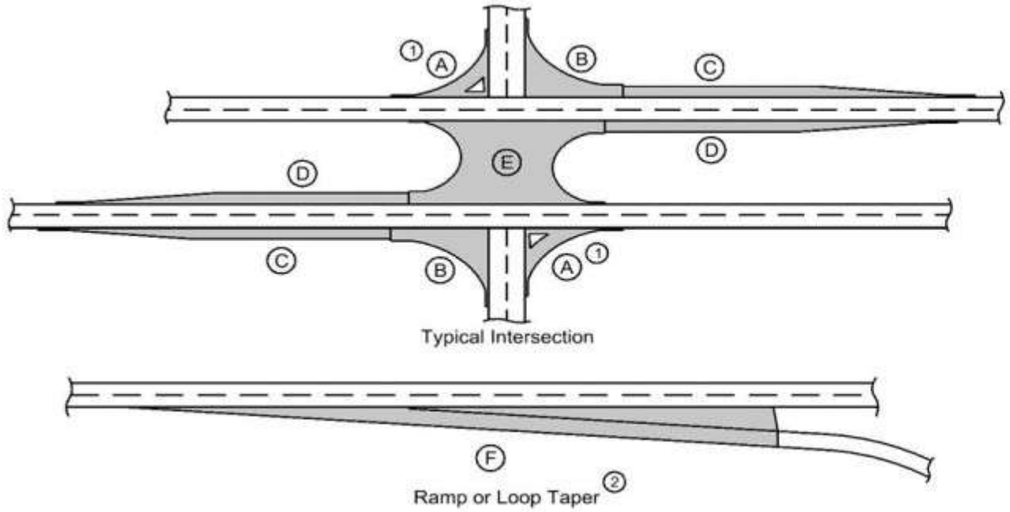
Totals:
REMOVAL LESS THAN 36 IN DIA = 1,496 LF
PLUG & FILL LESS THAN 36 IN DIA = 88 LF
PLUGS = 4 EA
FLOWABLE MORTOR OR CLSM = 10.2 CY

REMOVAL OF INTAKES AND UTILITY ACCESSES

Line No.	Item No.	Location Description	Type	Remarks
1.0	2510-6750600	STA 669+31-1' LT	Utilities	STG 2 - U.S. 6/HICKMAN
2.0	2510-6750600	STA 675+10-14' RT	Intakes	STG 2 - U.S. 6/HICKMAN
3.0	2510-6750600	STA 678+70-19' RT	Intakes	STG 2 - U.S.6/HICKMAN
4.0	2510-6750600	STA 678+70-26' RT	Intakes	STG 2 - U.S. 6/HICKMAN
5.0	2510-6750600	STA 687+75-37' RT	Intakes	STG 2 - U.S. 6/HICKMAN
6.0	2510-6750600	STA 3690+55-24' RT	Intakes	STG 2 - 111TH ST
7.0	2510-6750600	STA 3690+55-37' LT	Intakes	STG 2 - 111TH ST
8.0	2510-6750600	STA 3693+10-26' LT	Intakes	STG 2 - 111TH ST
9.0	2510-6750600	STA 3693+10-10' RT	Intakes	STG 2 - 111TH ST
10.0	2510-6750600	STA 678+90-141' RT	Utilities	STG 3 - U.S. 6/HICKMAN
11.0	2510-6750600	STA 680+76-28' RT	Intakes	STG 3 - U.S.6/HICKMAN
12.0	2510-6750600	STA 680+76-41' RT	Intakes	STG 3 - U.S.6/HICKMAN
13.0	2510-6750600	STA 683+72-49' LT	Utilities	STG 3 - U.S.6/HICKMAN
14.0	2510-6750600	STA 683+81-10' RT	Intakes	STG 3 - U.S.6/HICKMAN
15.0	2510-6750600	STA 683+81-23' RT	Intakes	STG 3 - U.S. 6/HICKMAN

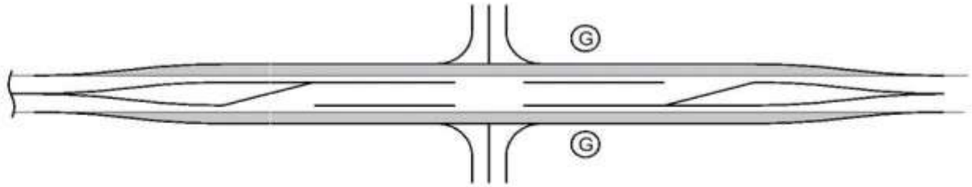
Totals:
2510-6750600 = 15 EA

PCC PAVEMENT

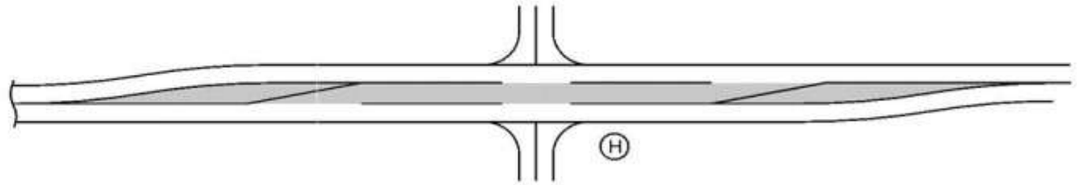


Typical Intersection

Ramp or Loop Taper



Channelized Intersection
Widen Existing Roadway



Channelized Intersection
Reconstructed Roadway

(1) Does not include raised island area or curb. Refer to tabulation 112-4 for quantities.
(2) Refer to PV-410, PV-411, PV-412, and PV-414.
(3) Quantity includes Pavement Header.

Line No.	Road Identification	Direction of Travel	Station From	Station To	Width (FT)	Length (FT)	Area (SY)	Area A(1) (SY)(3)	Area B (SY)(3)	Area C (SY)(3)	Area D (SY)(3)	Area E (SY)(3)	Area F(2) (SY)(3)	Area G (SY)(3)	Area H (SY)(3)	Area by Thickness - Thickness(IN)	Area by Thickness - Area (SY)	Polymer Grid (SY)	Special Backfill (TON)	Modified Subbase (CY)	Granular Subbase (SY)	Remarks
1.0	STAGE 1																					
2.0	U.S. 6/HICKMAN	Both	683+99.77	690+95.79		696.02	1331.90									10.0	1331.9					DETOUR PAVEMENT
3.0	U.S. 6/HICKMAN	Both	691+74.51	701+91.08		1016.57	1940.10									10.0	1940.1					DETOUR PAVEMENT
4.0	111TH ST	NB	3686+61.79	3690+38.81		377.02	620.10									8.0	620.1			136.70		INCLUDES FRONTAGE ROAD
5.0	STAGE 2																					
6.0	U.S. 6/HICKMAN	Both	657+07.85	662+47.00		539.15	1528.90									10.0	1528.9			510.50		
7.0	U.S. 6/HICKMAN	Both	663+71.00	666+50.00		279.00	423.60									10.0	423.6			177.70		
8.0	U.S. 6/HICKMAN	EB	666+50.00	673+58.07		708.07	3554.00									10.0	3554.0			1264.60		
9.0	U.S. 6/HICKMAN	WB	666+50.00	679+21.04		1271.04	6265.40									10.0	6265.4			2262.40		
10.0	U.S. 6/HICKMAN	EB	673+34.87	679+16.25		581.38	3485.00									10.0	3485.0			1281.30		
11.0	U.S. 6/HICKMAN	WB	680+40.67	697+99.11		1758.44	6219.30									10.0	6219.3			2272.60		
12.0	U.S. 6/HICKMAN	EB	680+91.20	698+19.32		1728.12	5601.30									10.0	5601.3			2059.50		
13.0	U.S. 6 RAMP A_1	SB	13419+48.68	13421+28.66		179.98	282.80									10.0	282.8			105.60		
14.0	U.S. 6 RAMP A_2	SB	23419+77.75	23421+01.62		123.87	130.40									10.0	130.4			60.00		
15.0	U.S. 6 RAMP B_1	NB	14418+51.97	14419+25.13		73.16	204.80									10.0	204.8			77.30		
16.0	U.S. 6 RAMP B_2	NB	24417+63.22	24420+48.19		284.97	925.80									10.0	925.8			325.60		
17.0	U.S. 6 RAMP C_1	SB	15417+11.47	15419+77.35		265.88	551.90									10.0	551.9			216.70		
18.0	U.S. 6 RAMP D_1	NB	16419+21.63	16420+68.41		146.78	490.70									10.0	490.7			175.30		
19.0	U.S. 6 RAMP D_2	NB	26419+25.78	26419+82.98		57.20	102.50									10.0	102.5			33.70		
20.0	111TH ST	Both	3688+15.11	3690+88.11		273.00	1306.10									8.0	1306.1			225.70		
21.0	111TH ST	Both	3691+87.90	3695+75.36		387.46	1744.50									8.0	1744.5			326.80		
22.0	STAGE 3																					
23.0	U.S. 6/HICKMAN	WB	666+50.00	669+72.33		322.33	548.00									10.0	548.0			205.20		
24.0	U.S. 6/HICKMAN	EB	667+98.98	669+23.97		124.99	241.40									10.0	241.4			94.00		
25.0	U.S. 6/HICKMAN	Both	679+00.00	697+99.77		1899.77	9170.10									10.0	9170.1			3385.30		
26.0	U.S. 6 RAMP B_1	NB	14417+24.21	14418+51.94		127.73	168.20									10.0	168.2			57.90		
27.0	U.S. 6 RAMP D_1	NB	16420+68.41	16422+01.26		132.85	164.80									10.0	164.8			71.70		
28.0	111TH ST	SB	3686+11.37	3688+15.11		203.74	213.10									8.0	213.1			44.80		

Division 1: DETOUR PAVEMENT = 3,272.0 SY; 8 IN PCC PAVEMENT = 3,883.8 SY; 10 IN PCC PAVEMENT = 40,058.9 SY; MODIFIED SUBBASE = 15,370.9 CY

SHOULDERS

(1) Lane(s) to which the shoulder is adjacent.
(2) See Typ. 7156, 7157, or 7158.
(3) Bid Item.
(4) Applies only for Paved Shoulders constructed on project with existing granular shoulders.
(5) Bid Item. Typ. 7156, 7157, or 7158.
(6) Does not include shrink.
(7) Paved shoulder thickness specified in Remarks.
(8) Subbase type specified in Remarks.

Roadway Identification	Direction of Travel (1)	Station From	Station To	Side	L Length (FT)	Class 13 Excavation (CY)(3)(4)	Paved Shoulder (3) (SY)	Shoulder at Grdrail (5)(7)	Reinforced Paved Shoulder(3) (SY)	Special Backfill PCC Alt. (3) (TON)	Special Backfill PCC Alt. (TON/STA)	Pavement Scarification (SY)	Polymer Grid (SY)	Subbase (3) (8) (CY)	Granular Shoulder (3) (TON)	Granular Shoulder (TON/STA)	Shoulder Finish. (3) (STA)	Shoulder Const. (3) (STA)	Shoulder Finish. (6) (CY)	Remarks
U.S. 6/HICKMAN	WB	697+99.91	701+41.74	Left	341.80		227.9							114.00						STG 1
U.S. 6/HICKMAN	EB	698+19.73	702+13.43	Right	393.70		263.1							131.50						STG 1
RAMP B_2	NB	24417+63.26	24418+91.46	Right	128.20		84.2							41.80						STG 2
RAMP B_1	NB	14418+52.13	14418+74.23	Left	22.10		9.7							5.60						STG 2
RAMP C_1	SB	15418+50.00	15418+85.60	Right	35.60		15.7							9.10						STG 2
111TH ST	NB	3686+61.76	3687+59.21	Right	107.90												1.10		16.40	STG 1
U.S. 6/HICKMAN	EB	666+63.61	672+31.07	Right	234.80												2.30		38.30	STG 2
U.S. 6/HICKMAN	WB	666+63.61	668+98.28	Left	235.70												2.40		38.40	STG 2
U.S. 6/HICKMAN	EB	680+20.66	690+73.98	Right	1061.70												10.60		188.70	STG 2
U.S. 6/HICKMAN	WB	681+36.45	690+91.76	Left	970.90												9.70		172.60	STG 2
U.S. 6/HICKMAN	EB	692+26.42	697+00.00	Right	473.60												4.70		84.20	STG 2
U.S. 6/HICKMAN	WB	692+26.42	697+00.00	Left	474.00												4.70		84.30	STG 2
111TH ST	SB	3688+15.11	3688+60.73	Left	46.60												0.50		7.10	STG 2
111TH ST	SB	3688+95.34	3690+60.45	Left	172.10												1.70		26.10	STG 2
111TH ST	NB	3690+32.64	3690+60.50	Right	29.20												0.30		4.40	STG 2
111TH ST	NB	3690+67.49	3690+87.90	Right	46.30												0.50		7.00	STG 2
111TH ST	SB	3692+14.15	3694+54.61	Left	249.50												2.50		37.90	STG 2
111TH ST	NB	3692+15.17	3695+76.95	Right	354.10												3.50		53.80	STG 2
111TH ST	SB	3695+12.96	3695+75.92	Right	66.60												0.70		10.10	STG 2
U.S. 6/HICKMAN	WB	667+65.24	669+68.83	Left	203.50												2.00		36.20	STG 3
U.S. 6/HICKMAN	EB	667+98.98	669+20.05	Right	122.10												1.20		21.70	STG 3
U.S. 6/HICKMAN	EB	684+35.49	687+72.83	Right	338.60												3.40		55.20	STG 3
U.S. 6/HICKMAN	WB	684+35.49	687+72.83	Left	341.50												3.40		55.70	STG 3
U.S. 6/HICKMAN	EB	695+20.01	697+00.00	Right	180.00												1.80		29.30	STG 3
U.S. 6/HICKMAN	WB	695+20.01	697+00.00	Left	180.20												1.80		29.40	STG 3
111TH ST	SB	3686+11.39	3687+63.50	Left	140.80												1.40		21.40	STG 3
U.S. 6/HICKMAN	EB	669+08.28	672+31.16	Right	319.80												3.20		52.10	STG 4
U.S. 6/HICKMAN	WB	669+08.28	672+31.16	Left	334.90												3.30		54.60	STG 4
U.S. 6/HICKMAN	EB	681+00.75	684+23.89	Right	314.40												3.10		51.20	STG 4
U.S. 6/HICKMAN	WB	681+00.75	684+23.89	Left	318.50												3.20		51.90	STG 4
U.S. 6/HICKMAN	EB	674+50.72	675+64.79	Left	100.00												1.00		16.30	STG 4
U.S. 6/HICKMAN	WB	674+50.72	675+64.79	Right	100.00												1.00		16.30	STG 4
U.S. 6/HICKMAN	EB	677+64.06	678+81.15	Right	103.00												1.00		16.80	STG 4
U.S. 6/HICKMAN	WB	677+64.06	678+81.15	Left	103.00												1.00		16.80	STG 4
RMP A CELL					329.80												3.30		53.70	STG 4
RMP B CELL					388.40												3.90		63.30	STG 4
RMP C CELL					552.70												5.50		90.10	STG 4
RMP D CELL					590.90												5.90		96.30	STG 4
111TH ST	NB	3686+14.17	3687+66.93	Right	173.70													1.74		STG 1
111TH ST	NB	3686+20.38	3687+59.71	Right	160.90													1.61		STG 1
111TH ST	NB	3687+92.58	3688+86.00	Right	91.10													0.91		STG 1
111TH ST	NB	3689+55.00	3689+91.39	Right	31.40													0.31		STG 1
111TH ST	NB	3690+26.52	3690+87.90	Right	91.50													0.92		STG 1

SHOULDERS

(1) Lane(s) to which the shoulder is adjacent.
(2) See Typ. 7156, 7157, or 7158.
(3) Bid Item.
(4) Applies only for Paved Shoulders constructed on project with existing granular shoulders.
(5) Bid Item. Typ. 7156, 7157, or 7158.
(6) Does not include shrink.
(7) Paved shoulder thickness specified in Remarks.
(8) Subbase type specified in Remarks.

Roadway Identification	Direction of Travel (1)	Station From	Station To	Side	L Length (FT)	Class 13 Excavation (CY)(3)(4)	Paved Shoulder (3) (SY)	Shoulder at Grdrail (5)(7)	Reinforced Paved Shoulder(3) (SY)	Special Backfill PCC Alt. (3) (TON)	Special Backfill PCC Alt. (TON/STA)	Pavement Scarification (SY)	Polymer Grid (SY)	Subbase (3) (8) (CY)	Granular Shoulder (3) (TON)	Granular Shoulder (TON/STA)	Shoulder Finish. (3) (STA)	Shoulder Const. (3) (STA)	Shoulder Finish. (6) (CY)	Remarks
111TH ST	NB	3690+32.93	3690+87.88	Right	86.40													0.86		STG 1
U.S. 6/HICKMAN	EB	697+00.00	698+20.05	Right	118.90													1.19		STG 2
U.S. 6/HICKMAN	WB	697+00.00	699+82.71	Left	284.00													2.84		STG 2
RAMP B_2	NB	24417+63.50	24418+91.08	Right	124.10													1.24		STG 2
U.S. 6/HICKMAN	EB	697+00.00	702+13.43	Right	513.30													5.13		STG 3
U.S. 6/HICKMAN	WB	697+00.00	701+41.74	Left	441.90													4.42		STG 3
U.S. 6/HICKMAN	EB	674+93.30	678+70.82	Left	421.00													4.21		STG 4
U.S. 6/HICKMAN	WB	674+89.67	678+07.14	Right	351.50													3.52		STG 4
U.S. 6/HICKMAN		691+96.83	697+00.00	Left	503.40													5.03		STG 4
U.S. 6/HICKMAN		692+26.43	697+00.00	Left	479.60													4.80		STG 4
TRAIL 006		50051+00.00	50058+75.88	Left	748.80													7.49		STG 4
TRAIL 006		50051+00.00	50058+75.88	Right	777.70													7.78		STG 4
TRAIL 006		50061+77.91	50063+82.18	Left	204.50													2.05		STG 4
TRAIL 006		50061+77.91	50063+82.18	Right	204.00													2.04		STG 4
TRAIL 006		50065+93.84	50067+67.76	Left	171.80													1.72		STG 4
TRAIL 006		50065+93.84	50067+67.76	Right	173.00													1.73		STG 4
TRAIL 006		50074+15.28	50080+13.32	Right	600.30													6.00		STG 4
TRAIL 006		50074+15.28	50080+23.28	Left	606.50													6.07		STG 4
TRAIL 080		60013+82.19	60015+93.29	Right	201.50													2.02		STG 4
TRAIL 080		60013+82.19	60015+93.29	Left	220.80													2.21		STG 4
TRAIL 080		60017+94.57	60019+88.00	Right	183.20													1.83		STG 4
TRAIL 080		60017+94.57	60018+07.66	Left	14.80													0.15		STG 4
TRAIL 080		60019+74.56	60019+88.03	Right	19.50													0.20		STG 4

Division 1:
PAVED SHOULDER = 600.6 SY
MODIFIED SUBBASE = 302.0 CY
EARTH SHOULDER FINISHING: 95.6 STA
EARTH SHOULDER FINISHING: 1,597.6 CY *NOT A BID ITEM
EARTH SHOULDER CONSTRUCTION: 28.9 STA
Division 2:
EARTH SHOULDER CONSTRUCTION: 51.1 STA

SIDEWALK AND TRAIL

See S Sheets and MI-220

Line No.	Road Identification	Station	Station	Length (LF)	Width (FT)	4 IN PCC Sidewalk (SY)	5 IN PCC Sidewalk (SY)	6 IN PCC Trail (SY)	Detectable Warnings (SF)	Remarks
1	NW 111TH ST	3686+14.02	3687+67.08	153.1	10			193.2	20	STG 1
2	NW 111TH ST	3687+92.58	3689+91.39	198.8	10			211.1	20	STG 1
3	NW 111TH ST	3686+21.97	3686+25.33	10	4		4.5			STG 1
4	NW 111TH ST	3687+55.53	3687+58.89	13	4		5.6			STG 1
5	NW 111TH ST	3687+97.93	3688+01.41	8.1	4		3.5			STG 1
6	NW 111TH ST	3689+76.79	3689+81.79	27.6	4		15			STG 1
7										
8	NW 111TH ST	3690+25.18	3690+87.90	62.7	10			103.6	56	STG 2
9	NW 111TH ST	3688+91.08	3690+67.45	176.4	5		99.3	11.2	16	STG 2
10										
11	NW 111TH ST	3686+50.36	3687+67.92	117.6	5		52.1	4.5		STG 3
12	NW 111TH ST	3687+97.76	3688+64.99	67.2	5		7.6	6.7		STG 3
13										
14	TRAIL 006	50050+99.91	50058+75.86	775.95	10			896.1		STG 4
15	TRAIL 006	50061+78.40	50063+82.18	203.78	10			236.3		STG 4
16	TRAIL 006	50065+93.84	50067+67.76	173.1	10			203.4		STG 4
17	TRAIL 006	50074+15.28	50080+23.28	608	10			672.6	28	STG 4
18	U.S. 6/HICKMAN RD	691+95.77	696+99.96	504.19	10			557.6	54	STG 4
19	TRAIL 080	60013+82.38	60015+93.32	210.9	10			234.5		STG 4
20	TRAIL 080	60017+94.64	60019+87.97	193.3	10			250.1		STG 4

Total:
5 IN PCC SIDEWALK = 187.6 SY
6 IN PCC TRAIL = 3,580.9 SY
DETECTABLE WARNINGS = 194.0 SF
SPECIAL COMPACTION OF SUBGRADE FOR TRAIL = 34.5 STA

COMBINED CONCRETE SIDEWALK AND RETAINING WALL

Line No.	Station From	Station To	Side	Retaining Wall Type	Retaining Wall Height 1 (FT)	Retaining Wall Thickness (FT)	Sidewalk Width 1 (FT)	Sidewalk Thickness (FT)	Retaining Wall Concrete (CY)	Sidewalk & Footing Concrete (CY)	Porous Backfill (CY)	Reinforcing Steel (LB)
1.0	3688+03.00	3688+50.00	Left	A	2.0	0.5	5.0	0.5	2.2	4.3	1.2	172

CURB AND GUTTER

Refer to PV-102

Line No.	Station From	Station To	Side	Length (LF)	Width (LF)	Width 1.5 (LF)	Width 2.0 (LF)	Width 2.5 (LF)	Width 3.0 (LF)	Width 3.5 (LF)	Width 4.0 (LF)	Width 4.5 (LF)	Width 5.0 (LF)	Width 5.5 (LF)	Modified Subbase (CY)	Special Backfill (TON)	Remarks
1.0	3686+12.62	3686+24.43	Right	24.10					24.10						2.70		STAGE 1 - 111TH ST
2.0	23421+01.47	23421+14.73	Right	26.00					26.00						5.80		STAGE 2 - RAMP A_2
3.0	25417+36.46	25419+32.75	Left	227.60					227.60						26.90		STAGE 2 - RAMP C_2
4.0	24417+61.00	24419+38.95	Left	209.10					209.10						46.50		STAGE 3 - RAMP B_2
5.0	26419+82.98	26421+79.35	Left	217.00					217.00						24.10		STAGE 3 - RAMP D_2

Division 1

3 FT CURB AND GUTTER = 703.8 LF

MODIFIED SUBBASE = 106.0 CY

CURBS AND RAISED ISLANDS

Refer to PV-20, PV-102, and 6000s Detail Series.

(1) Bid Item

Line No.	Point No.	Station	Offset (FT)	Island Interior Area (1) (SY)	Curb Type	Curb Height (IN)	Gutter Width (FT)	Length (FT)	Remarks
1.0		657+18.13	4.0	234.3	Sloped PCC	6.0	3.0	1065.0	STG 2 - U.S.6/HICKMAN
2.0		3688+64.99	12.0	783.5	Sloped PCC	6.0	3.0	392.0	STG 2 - 111TH ST
3.0									
4.0		664+51.61	11.0	124.0	Sloped PCC	6.0	3.0	437.0	STG 4 - U.S.6/HICKMAN
5.0		687+72.59	3.0	159.6	Sloped PCC	6.0	3.0	597.0	STG 4 - U.S.6/HICKMAN
6.0		692+28.01	6.0	159.6	Sloped PCC	6.0	3.0	597.0	STG 4 - U.S.6/HICKMAN

Division 1
MEDIAN, PCC, 6 IN = 1461.0 SY
6 IN SLOPED CURB = 3088.0 LF *Not a Bid Item

ACCESS POINTS AND SAFETY RAMPS

Refer to Cross-Sections

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

Line No.	Station	Side	Access Type	Descriptor	Case	Curb Type	Curb Length (1) (LF)	Width (FT)	PR (1) (2) (FT)	SR (2) (FT)	Pipe Culvert (H) (3) (FT)	Pipe Culvert Size (3) (IN)	Culvert Length (3) (LF)	Pipe Culvert Lt. (3) (LF)	Pipe Culvert Rt. (3) (LF)	Culvert Aprons (3) (No.)	Driveway Surface Type	Driveway Surface Area (SY)	Driveway Surfacing Material (TON)	Remarks
1.0	3687+80.00	Right	B		1			28.0	20.0								PCC	97.7		STAGE 1 - 111TH ST
2.0																				
3.0	3688+80.00	Left	B		1			25.0	15.0								PCC	76.0		STAGE 2 - 111TH ST
4.0	3694+80.00	Left	B		1			30.0	25.0								PCC	82.2		STAGE 2 - 111TH ST
5.0																				
6.0	3687+80.00	Left	B		1			24.0	15.0								PCC	98.1		STAGE 3 - 111TH ST

Total:
8 IN PCC = 354.0 SY

ADJUSTMENT OF FIXTURES

Line No.	Item No.	Location Station	Side	Distance	Type of Fixture	Adjustment
1.0	2554-0212040	3686+41.00	Right	33.9	Water Valve	LOWER 0.6' (STG 1 - 111TH ST)

Division 1
WATER VALVE ADJUSTMENT = 1 EA

FENCING

* Bid Item

Line No.	Station From	Offset	Station To	Offset	Side	Fence Type	Fence Feature	Height (FT)	Quantity (EA) *	Length (LF) *	Remarks
1.0	50061+70.78	10.5	50063+95.01	10.0	Left	Chain Link	Running Fence	6.0		226.5	STG 4 - TRAIL 006
2.0	50065+81.01	10.0	50067+75.38	10.5	Left	Chain Link	Running Fence	6.0		194.3	STG 4 - TRAIL 006

Division 2
6 FT CHAIN LINK FENCE = 420.8 LF

PAVEMENT MARKING LINE TYPES

Line factors based on 6-inch wide continuous line.
*BCY4 - Place on the same side of the roadway to match existing markings near the project.
**NPY4 - Estimating purposes only. No Passing Zone Lines will be located in the field.
***MNY6 - Factor of 1.00 includes number of 6-inch passes to cover median nose area.

BCY4: Broken Centerline (Yellow) @ 0.17
BCY6: Broken Centerline (Yellow) @ 0.25
BLC6: Broken Line Contrast (White/Black) @ 0.50
BLW4: Broken Lane Line (White) @ 0.17
BLW6: Broken Lane Line (White) @ 0.25
CBW6: Crosswalk Bar (White) @ 10.00
CHW8: Channelizing Line (White) @ 1.33
CHW10: Channelizing Line (White) @ 1.67
CHY8: Channelizing Line (Yellow) @ 1.33
CHY10: Channelizing Line (Yellow) @ 1.67
CLW6: Crosswalk Line (White) @ 2.00
DCY4: Double Centerline (Yellow) @ 1.34
DCY6: Double Centerline (Yellow) @ 2.00
DDY4: Double Dotted Line (Yellow) @ 0.44
DDY6: Double Dotted Line (Yellow) @ 0.67
DLW4: Dotted Line (White) @ 0.22
DLW6: Dotted Line (White) @ 0.33
DLY4: Dotted Line (Yellow) @ 0.22
DLY6: Dotted Line (Yellow) @ 0.33
ELW4: Edge Line Right (White) @ 0.67
ELW6: Edge Line Right (White) @ 1.00
ELY4: Edge Line Left (Yellow) @ 0.67
ELY6: Edge Line Left (Yellow) @ 1.00
LDW8: Lane Drop (White) @ 0.33
LDW10: Lane Drop (White) @ 0.42
MNY6: Median Nose (Yellow) @ 1.00
NPY4: No Passing Zone Line (Yellow) @ 0.84
NPY6: No Passing Zone Line (Yellow) @ 1.25
RLW4: Ramp Edge Line Right (White) @ 0.67
RLW6: Ramp Edge Line Right (White) @ 1.00
RLY4: Ramp Edge Line Left (Yellow) @ 0.67
RLY6: Ramp Edge Line Left (Yellow) @ 1.00
SLW2: Stop Line (White) @ 4.00
SLW4: Solid Lane Line (White) @ 0.67
SLW6: Solid Lane Line (White) @ 1.00
SPW4: Sloped Curb 4" (White) @ 2.16
SPW6: Sloped Curb 6" (White) @ 2.28
SPY4: Sloped Curb 4" (Yellow) @ 2.16
SPY6: Sloped Curb 6" (Yellow) @ 2.28
STW6: Standard Curb 6" (Yellow) @ 2.03
STY6: Standard Curb 6" (Yellow) @ 2.03
YLW2: Yield Line (White) @ 1.15

Road ID	Station From	Station To	Lane	Marking Type	Left	Center	Right	BLW6 Factored (STA)	CHW10 Factored (STA)	CHY10 Factored (STA)	CLW6 Factored (STA)	DCY6 Factored (STA)	DLW6 Factored (STA)	ELW6 Factored (STA)	ELY6 Factored (STA)	MNY6*** Factored (STA)	NPY6** Factored (STA)	RLW6 Factored (STA)	RLY6 Factored (STA)	SLW2 Factored (STA)	SLW6 Factored (STA)	Remarks
STG 1B																						
Hickman Rd.	684+01.42	690+95.95	EB	Waterborne/Solvent Paint											6.97							
Hickman Rd.	691+74.50	702+13.35	EB	Waterborne/Solvent Paint											10.39							
Hickman Rd.	683+99.85	690+95.68	WB	Waterborne/Solvent Paint											6.96							
Hickman Rd.	691+74.50	701+41.63	WB	Waterborne/Solvent Paint											9.68							
STG 2																						
Hickman Rd.	660+29.75	662+35.74	EB	Removal of Paint						19.04												
Hickman Rd.	684+01.46	690+95.93	EB	Removal of Paint											6.97							
Hickman Rd.	691+74.50	702+13.35	EB	Removal of Paint											10.39							
Hickman Rd.	663+71.11	665+36.90	WB	Removal of Paint						6.61											6.10	
Hickman Rd.	664+00.22	666+50.00	WB	Removal of Paint										2.50								
Hickman Rd.	695+34.06	701+49.76	WB	Removal of Paint											6.16							
Ramp A	3420+42.31	3424+84.33	SB	Removal of Paint											4.42							
Ramp A	3420+75.83	3423+04.36	SB	Removal of Paint																	2.29	
Ramp A	3421+03.56	3424+84.31	SB	Removal of Paint																	3.87	
Ramp A	3421+03.56	3424+64.68	SB	Removal of Paint								1.59			3.61							
Ramp B	4414+15.06	4417+63.22	NB	Removal of Paint										3.48	3.46							
Ramp B	4416+05.79	4419+07.36	NB	Removal of Paint											3.02							
Ramp B	4416+05.97	4419+00.00	NB	Removal of Paint																	2.94	
Ramp B	4416+05.99	4419+03.44	NB	Removal of Paint																	2.97	
Ramp C	5409+52.38	5418+07.37	SB	Removal of Paint										8.55	10.86							
Ramp C	5415+68.93	5417+21.51	SB	Removal of Paint											1.53							
Ramp D	6419+53.37	6420+59.60	NB	Removal of Paint											1.33							
Ramp D	6419+66.16	6420+67.52	NB	Removal of Paint										1.07								
NW 111th St.	3686+33.18	3688+14.36	SB	Removal of Paint	X												2.23					
NW 111th St.	3686+33.35	3688+29.14	NB	Removal of Paint	X												2.53					
NW 111th St.	3689+33.60	3690+13.08	NB	Removal of Paint		X															0.79	
Hickman Rd.	664+13.82	671+33.65	WB	Waterborne/Solvent Paint			X							7.19								
Hickman Rd.	664+15.27	671+41.54	EB	Waterborne/Solvent Paint			X							7.33								
Hickman Rd.	680+61.47	702+71.62	EB	Waterborne/Solvent Paint			X							22.11								
Hickman Rd.	680+61.55	702+56.15	EB	Waterborne/Solvent Paint	X										21.96							
Hickman Rd.	679+85.38	707+65.07	WB	Waterborne/Solvent Paint			X							28.52								
Hickman Rd.	679+70.08	701+59.96	WB	Waterborne/Solvent Paint	X										22.72							
Ramp A	3419+47.73	3424+83.88	SB	Waterborne/Solvent Paint			X											6.16				

PAVEMENT MARKING LINE TYPES

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***MNY6 - Factor of 1.00 includes number of 6-inch passes to cover median nose area.

BCY4: Broken Centerline (Yellow) @ 0.17
BCY6: Broken Centerline (Yellow) @ 0.25
BLC6: Broken Line Contrast (White/Black) @ 0.50
BLW4: Broken Lane Line (White) @ 0.17
BLW6: Broken Lane Line (White) @ 0.25
CBW6: Crosswalk Bar (White) @ 10.00
CHW8: Channelizing Line (White) @ 1.33
CHW10: Channelizing Line (White) @ 1.67
CHY8: Channelizing Line (Yellow) @ 1.33
CHY10: Channelizing Line (Yellow) @ 1.67
CLW6: Crosswalk Line (White) @ 2.00
DCY4: Double Centerline (Yellow) @ 1.34
DCY6: Double Centerline (Yellow) @ 2.00
DDY4: Double Dotted Line (Yellow) @ 0.44
DDY6: Double Dotted Line (Yellow) @ 0.67
DLW4: Dotted Line (White) @ 0.22
DLW6: Dotted Line (White) @ 0.33
DLY4: Dotted Line (Yellow) @ 0.22
DLY6: Dotted Line (Yellow) @ 0.33
ELW4: Edge Line Right (White) @ 0.67
ELW6: Edge Line Right (White) @ 1.00
ELY4: Edge Line Left (Yellow) @ 0.67
ELY6: Edge Line Left (Yellow) @ 1.00
LDW8: Lane Drop (White) @ 0.33
LDW10: Lane Drop (White) @ 0.42
MNY6: Median Nose (Yellow) @ 1.00
NPY4: No Passing Zone Line (Yellow) @ 0.84
NPY6: No Passing Zone Line (Yellow) @ 1.25
RLW4: Ramp Edge Line Right (White) @ 0.67
RLW6: Ramp Edge Line Right (White) @ 1.00
RLY4: Ramp Edge Line Left (Yellow) @ 0.67
RLY6: Ramp Edge Line Left (Yellow) @ 1.00
SLW2: Stop Line (White) @ 4.00
SLW4: Solid Lane Line (White) @ 0.67
SLW6: Solid Lane Line (White) @ 1.00
SPW4: Sloped Curb 4" (White) @ 2.16
SPW6: Sloped Curb 6" (White) @ 2.28
SPY4: Sloped Curb 4" (Yellow) @ 2.16
SPY6: Sloped Curb 6" (Yellow) @ 2.28
STW6: Standard Curb 6" (Yellow) @ 2.03
STY6: Standard Curb 6" (Yellow) @ 2.03
YLW2: Yield Line (White) @ 1.15

Road ID	Station From	Station To	Lane	Marking Type	Left	Center	Right	BLW6 Factored (STA)	CHW10 Factored (STA)	CHY10 Factored (STA)	CLW6 Factored (STA)	DCY6 Factored (STA)	DLW6 Factored (STA)	ELW6 Factored (STA)	ELY6 Factored (STA)	MNY6*** Factored (STA)	NPY6** Factored (STA)	RLW6 Factored (STA)	RLY6 Factored (STA)	SLW2 Factored (STA)	SLW6 Factored (STA)	Remarks
Ramp B	4417+45.37	4419+89.64	NB	Waterborne/Solvent Paint	X														2.95			
Ramp B	4417+45.54	4419+84.43	NB	Waterborne/Solvent Paint			X											2.80				
Ramp C	5409+52.38	5418+95.93	SB	Waterborne/Solvent Paint			X											10.48				
Ramp C	5409+52.38	5414+48.97	SB	Waterborne/Solvent Paint		X							1.64									
Ramp C	5414+48.97	5416+28.62	SB	Waterborne/Solvent Paint		X		0.45														
STG 3																						
Hickman Rd.	657+85.46	662+36.65	EB	Waterborne/Solvent Paint		X		1.13														
Hickman Rd.	657+07.85	658+04.96	WB	Waterborne/Solvent Paint		X			1.62													
Hickman Rd.	657+07.85	658+04.96	WB	Waterborne/Solvent Paint		X			1.62													
Hickman Rd.	657+35.29	662+36.65	EB	Waterborne/Solvent Paint	X										5.01							
Hickman Rd.	659+36.27	662+36.65	WB	Waterborne/Solvent Paint	X										3.00							
Hickman Rd.	659+35.85	662+36.65	EB	Waterborne/Solvent Paint		X															3.01	
Hickman Rd.	662+36.65	662+38.65	Both	Waterborne/Solvent Paint		X										0.13						
Hickman Rd.	662+36.65		EB	Waterborne/Solvent Paint		X														3.32		
Hickman Rd.	662+46.00	662+56.00	Both	Waterborne/Solvent Paint		X					2.70											
Hickman Rd.	662+56.25	663+84.65	EB	Waterborne/Solvent Paint			X				2.57											
Hickman Rd.	662+78.02	664+29.17	WB	Waterborne/Solvent Paint			X				2.16											
Hickman Rd.	663+17.29	663+21.17	Both	Waterborne/Solvent Paint		X										0.10						
Hickman Rd.	663+99.18		WB	Waterborne/Solvent Paint		X														2.00		
Hickman Rd.	663+98.18	667+68.11	WB	Waterborne/Solvent Paint		X			16.45													
Hickman Rd.	663+98.18	668+00.00	WB	Waterborne/Solvent Paint		X		1.00														
Hickman Rd.	663+98.18	668+00.00	WB	Waterborne/Solvent Paint		X		1.00														
Hickman Rd.	663+98.18	666+50.00	WB	Waterborne/Solvent Paint		X															2.52	
Hickman Rd.	664+13.82	668+00.00	WB	Waterborne/Solvent Paint			X							3.86								
Hickman Rd.	664+15.27	668+00.00	EB	Waterborne/Solvent Paint	X										3.85							
Hickman Rd.	664+15.27	668+00.00	EB	Waterborne/Solvent Paint		X		0.96														
Hickman Rd.	664+15.27	668+00.00	EB	Waterborne/Solvent Paint		X		0.96														
Hickman Rd.	664+15.27	668+00.00	EB	Waterborne/Solvent Paint		X							1.27									
Hickman Rd.	664+15.27	668+00.00	EB	Waterborne/Solvent Paint			X							3.85								
Hickman Rd.	664+51.61	664+53.61	Both	Waterborne/Solvent Paint		X										0.13						
Hickman Rd.	664+53.61		WB	Waterborne/Solvent Paint																0.56		
Hickman Rd.	664+53.61	668+00.00	WB	Waterborne/Solvent Paint	X										3.46							
Hickman Rd.	692+62.24	693+85.45	EB	Waterborne/Solvent Paint	X										1.23							
Hickman Rd.	692+62.24	693+85.58	EB	Waterborne/Solvent Paint		X		0.31														
Hickman Rd.	692+62.24	699+57.25	EB	Waterborne/Solvent Paint		X		1.74														
Hickman Rd.	692+62.24	698+19.92	EB	Waterborne/Solvent Paint			X							5.58								
Hickman Rd.	692+62.24	694+09.97	WB	Waterborne/Solvent Paint		X															1.48	
Hickman Rd.	692+62.24	694+29.90	WB	Waterborne/Solvent Paint		X															1.68	
Hickman Rd.	692+62.24	695+89.97	WB	Waterborne/Solvent Paint		X		0.82														
Hickman Rd.	692+62.24	697+99.51	WB	Waterborne/Solvent Paint		X		1.34														
Hickman Rd.	692+62.24	699+83.00	WB	Waterborne/Solvent Paint			X							7.21								

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***MNY6 - Factor of 1.00 includes number of 6-inch passes to cover median nose area.

BCY4: Broken Centerline (Yellow) @ 0.17
BCY6: Broken Centerline (Yellow) @ 0.25
BLC6: Broken Line Contrast (White/Black) @ 0.50
BLW4: Broken Lane Line (White) @ 0.17
BLW6: Broken Lane Line (White) @ 0.25
CBW6: Crosswalk Bar (White) @ 10.00
CHW8: Channelizing Line (White) @ 1.33
CHW10: Channelizing Line (White) @ 1.67
CHY8: Channelizing Line (Yellow) @ 1.33
CHY10: Channelizing Line (Yellow) @ 1.67
CLW6: Crosswalk Line (White) @ 2.00
DCY4: Double Centerline (Yellow) @ 1.34
DCY6: Double Centerline (Yellow) @ 2.00
DDY4: Double Dotted Line (Yellow) @ 0.44
DDY6: Double Dotted Line (Yellow) @ 0.67
DLW4: Dotted Line (White) @ 0.22
DLW6: Dotted Line (White) @ 0.33
DLY4: Dotted Line (Yellow) @ 0.22
DLY6: Dotted Line (Yellow) @ 0.33
ELW4: Edge Line Right (White) @ 0.67
ELW6: Edge Line Right (White) @ 1.00
ELY4: Edge Line Left (Yellow) @ 0.67
ELY6: Edge Line Left (Yellow) @ 1.00
LDW8: Lane Drop (White) @ 0.33
LDW10: Lane Drop (White) @ 0.42
MNY6: Median Nose (Yellow) @ 1.00
NPY4: No Passing Zone Line (Yellow) @ 0.84
NPY6: No Passing Zone Line (Yellow) @ 1.25
RLW4: Ramp Edge Line Right (White) @ 0.67
RLW6: Ramp Edge Line Right (White) @ 1.00
RLY4: Ramp Edge Line Left (Yellow) @ 0.67
RLY6: Ramp Edge Line Left (Yellow) @ 1.00
SLW2: Stop Line (White) @ 4.00
SLW4: Solid Lane Line (White) @ 0.67
SLW6: Solid Lane Line (White) @ 1.00
SPW4: Sloped Curb 4" (White) @ 2.16
SPW6: Sloped Curb 6" (White) @ 2.28
SPY4: Sloped Curb 4" (Yellow) @ 2.16
SPY6: Sloped Curb 6" (Yellow) @ 2.28
STW6: Standard Curb 6" (Yellow) @ 2.03
STY6: Standard Curb 6" (Yellow) @ 2.03
YLW2: Yield Line (White) @ 1.15

Road ID	Station From	Station To	Lane	Marking Type	Left	Center	Right	BLW6 Factored (STA)	CHW10 Factored (STA)	CHY10 Factored (STA)	CLW6 Factored (STA)	DCY6 Factored (STA)	DLW6 Factored (STA)	ELW6 Factored (STA)	ELY6 Factored (STA)	MNY6*** Factored (STA)	NPY6** Factored (STA)	RLW6 Factored (STA)	RLY6 Factored (STA)	SLW2 Factored (STA)	SLW6 Factored (STA)	Remarks
Hickman Rd.	692+62.24	701+41.60	WB	Waterborne/Solvent Paint	X										8.79							
Hickman Rd.	693+85.58	702+13.34	EB	Waterborne/Solvent Paint	X					15.58												
Hickman Rd.	700+51.23	701+41.60	WB	Waterborne/Solvent Paint	X										0.90							
Hickman Rd.	1668+00.00	1671+31.86	WB	Waterborne/Solvent Paint			X							3.32								
Hickman Rd.	1668+00.00	1673+19.41	WB	Waterborne/Solvent Paint		X		1.30														
Hickman Rd.	1668+00.00	1673+02.73	WB	Waterborne/Solvent Paint		X		1.26														
Hickman Rd.	1668+00.00	1672+86.04	WB	Waterborne/Solvent Paint	X										4.86							
Hickman Rd.	1672+33.18	1673+36.09	WB	Waterborne/Solvent Paint			X							1.03								
Hickman Rd.	1673+02.73	1674+37.95	WB	Waterborne/Solvent Paint		X							0.45									
Hickman Rd.	1673+19.41	1674+37.95	WB	Waterborne/Solvent Paint		X							0.39									
Hickman Rd.	1673+73.16	1675+23.23	WB	Waterborne/Solvent Paint	X										1.50							
Hickman Rd.	1674+23.21	1679+49.52	WB	Waterborne/Solvent Paint			X							5.26								
Hickman Rd.	1674+37.95		WB	Waterborne/Solvent Paint		X														1.92		
Hickman Rd.	1674+37.95	1676+34.41	WB	Waterborne/Solvent Paint		X															1.96	
Hickman Rd.	1674+37.95	1676+34.41	WB	Waterborne/Solvent Paint		X															1.96	
Hickman Rd.	1675+23.23	1675+45.48	WB	Waterborne/Solvent Paint	X				0.37													
Hickman Rd.	1676+10.67	1677+37.83	WB	Waterborne/Solvent Paint		X															1.27	
Hickman Rd.	1676+27.35	1677+48.75	WB	Waterborne/Solvent Paint	X										1.21							
Hickman Rd.	1676+34.41	1679+65.71	WB	Waterborne/Solvent Paint		X		0.83														
Hickman Rd.	1676+34.41	1679+82.40	WB	Waterborne/Solvent Paint		X		0.87														
Hickman Rd.	1677+37.83	1679+99.08	WB	Waterborne/Solvent Paint		X		0.65														
Hickman Rd.	1678+29.50	1680+15.77	WB	Waterborne/Solvent Paint	X										1.86							
Hickman Rd.	1679+49.03	1680+13.96	WB	Waterborne/Solvent Paint			X						0.21									
Hickman Rd.	1679+65.71	1680+94.84	WB	Waterborne/Solvent Paint		X							0.43									
Hickman Rd.	1679+82.40	1680+94.84	WB	Waterborne/Solvent Paint		X							0.37									
Hickman Rd.	1679+99.08	1680+94.84	WB	Waterborne/Solvent Paint		X							0.32									
Hickman Rd.	1680+14.37	1681+81.45	WB	Waterborne/Solvent Paint			X							1.67								
Hickman Rd.	1680+94.84		WB	Waterborne/Solvent Paint		X														2.48		
Hickman Rd.	1680+94.84	1684+45.57	WB	Waterborne/Solvent Paint		X															3.51	
Hickman Rd.	1680+94.84	1684+45.57	WB	Waterborne/Solvent Paint		X															3.51	
Hickman Rd.	1680+94.84	1684+45.57	WB	Waterborne/Solvent Paint		X															3.51	
Hickman Rd.	1680+94.84	1691+12.60	WB	Waterborne/Solvent Paint	X										10.18							
Hickman Rd.	1681+81.45	1682+18.32	WB	Waterborne/Solvent Paint			X		0.62													
Hickman Rd.	1682+18.32	1684+45.57	WB	Waterborne/Solvent Paint		X															2.27	
Hickman Rd.	1682+51.57	1691+04.56	WB	Waterborne/Solvent Paint			X							8.53								
Hickman Rd.	1684+45.57	1685+68.30	WB	Waterborne/Solvent Paint		X							0.41									
Hickman Rd.	1684+45.57	1691+12.60	WB	Waterborne/Solvent Paint		X		1.67														
Hickman Rd.	1684+45.57	1691+12.60	WB	Waterborne/Solvent Paint		X		1.67														
Hickman Rd.	1684+44.79	1686+60.52	WB	Waterborne/Solvent Paint		X							0.71									
	1691+11.60	1691+14.60	Both	Waterborne/Solvent Paint		X										0.21						
Hickman Rd.	1691+42.70	1692+62.95	WB	Waterborne/Solvent Paint			X				2.41											
	1692+77.80	1692+80.80	Both	Waterborne/Solvent Paint		X										0.21						
Hickman Rd.	1692+79.80		WB	Waterborne/Solvent Paint		X														2.40		

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DCY6: Double Centerline (Yellow) @ 2.00
DDY4: Double Dotted Line (Yellow) @ 0.44
DDY6: Double Dotted Line (Yellow) @ 0.67
DLW4: Dotted Line (White) @ 0.22
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DLY4: Dotted Line (Yellow) @ 0.22
DLY6: Dotted Line (Yellow) @ 0.33
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Hickman Rd.	1692+79.80	1693+12.02	WB	Waterborne/Solvent Paint			X							0.32								
Hickman Rd.	1692+79.80	1693+12.02	WB	Waterborne/Solvent Paint		X															0.32	
Hickman Rd.	1692+79.80	1693+12.02	WB	Waterborne/Solvent Paint		X		0.08														
Hickman Rd.	1692+79.80	1693+12.02	WB	Waterborne/Solvent Paint		X		0.08														
Hickman Rd.	1692+79.80	1693+12.02	WB	Waterborne/Solvent Paint		X															0.32	
Hickman Rd.	1692+79.80	1693+12.02	WB	Waterborne/Solvent Paint	X										0.32							
Hickman Rd.	2668+00.00	2672+93.92	EB	Waterborne/Solvent Paint	X										4.94							
Hickman Rd.	2668+00.00	2669+52.23	EB	Waterborne/Solvent Paint		X							0.50									
Hickman Rd.	2668+00.00	2669+52.44	EB	Waterborne/Solvent Paint		X		0.38														
Hickman Rd.	2668+00.00	2669+52.44	EB	Waterborne/Solvent Paint		X		0.38														
Hickman Rd.	2668+00.00	2669+52.87	EB	Waterborne/Solvent Paint		X							0.50									
Hickman Rd.	2668+00.00	2671+41.29	EB	Waterborne/Solvent Paint			X							3.41								
Hickman Rd.	2669+52.23	2672+80.18	EB	Waterborne/Solvent Paint		X															3.28	
Hickman Rd.	2669+52.44	2672+80.18	EB	Waterborne/Solvent Paint		X															3.28	
Hickman Rd.	2669+52.66	2672+80.18	EB	Waterborne/Solvent Paint		X															3.28	
Hickman Rd.	2669+52.87	2671+74.54	EB	Waterborne/Solvent Paint		X															2.22	
Hickman Rd.	2671+74.54	2672+11.40	EB	Waterborne/Solvent Paint			X		0.62													
Hickman Rd.	2672+11.40	2673+60.66	EB	Waterborne/Solvent Paint			X							1.49								
Hickman Rd.	2672+80.18		EB	Waterborne/Solvent Paint		X														2.36		
Hickman Rd.	2672+80.18	2673+75.94	EB	Waterborne/Solvent Paint		X							0.32									
Hickman Rd.	2672+80.18	2673+92.63	EB	Waterborne/Solvent Paint		X							0.37									
Hickman Rd.	2672+80.18	2674+09.31	EB	Waterborne/Solvent Paint		X							0.43									
Hickman Rd.	2673+61.07	2674+25.11	EB	Waterborne/Solvent Paint		X							0.21									
Hickman Rd.	2673+59.26	2675+08.05	EB	Waterborne/Solvent Paint	X										1.49							
Hickman Rd.	2673+75.94	2676+13.50	EB	Waterborne/Solvent Paint		X		0.59														
Hickman Rd.	2673+92.63	2677+40.62	EB	Waterborne/Solvent Paint		X		0.87														
Hickman Rd.	2674+09.31	2677+40.62	EB	Waterborne/Solvent Paint		X		0.83														
Hickman Rd.	2674+26.00	2679+52.46	EB	Waterborne/Solvent Paint			X							5.26								
Hickman Rd.	2675+88.51	2677+61.81	EB	Waterborne/Solvent Paint	X										1.73							
Hickman Rd.	2676+13.50	2677+78.49	EB	Waterborne/Solvent Paint		X															1.65	
Hickman Rd.	2677+40.62	2679+36.07	EB	Waterborne/Solvent Paint		X															1.95	
Hickman Rd.	2677+40.62	2679+36.07	EB	Waterborne/Solvent Paint		X															1.95	
Hickman Rd.	2678+43.68	2678+65.92	EB	Waterborne/Solvent Paint	X				0.37													
Hickman Rd.	2678+65.92	2680+01.87	EB	Waterborne/Solvent Paint	X										1.36							
Hickman Rd.	2679+36.07		EB	Waterborne/Solvent Paint		X														1.92		
Hickman Rd.	2679+36.07	2680+60.22	EB	Waterborne/Solvent Paint		X							0.41									
Hickman Rd.	2679+36.07	2680+76.97	EB	Waterborne/Solvent Paint		X							0.46									
Hickman Rd.	2680+38.93	2681+10.16	EB	Waterborne/Solvent Paint			X							0.71								
Hickman Rd.	2680+60.22	2691+02.00	EB	Waterborne/Solvent Paint		X		2.60														
Hickman Rd.	2680+76.97	2691+02.00	EB	Waterborne/Solvent Paint		X		2.56														
Hickman Rd.	2681+02.72	2691+02.00	EB	Waterborne/Solvent Paint	X										9.99							
Hickman Rd.	2682+12.36	2691+02.00	EB	Waterborne/Solvent Paint			X							8.90								
Hickman Rd.	2688+02.01	2691+02.00	EB	Waterborne/Solvent Paint		X															3.00	

PAVEMENT MARKING LINE TYPES

Line factors based on 6-inch wide continuous line.
*BCY4 - Place on the same side of the roadway to match existing markings near the project.
**NPY4 - Estimating purposes only. No Passing Zone Lines will be located in the field.
***MNY6 - Factor of 1.00 includes number of 6-inch passes to cover median nose area.

BCY4: Broken Centerline (Yellow) @ 0.17
BCY6: Broken Centerline (Yellow) @ 0.25
BLC6: Broken Line Contrast (White/Black) @ 0.50
BLW4: Broken Lane Line (White) @ 0.17
BLW6: Broken Lane Line (White) @ 0.25
CBW6: Crosswalk Bar (White) @ 10.00
CHW8: Channelizing Line (White) @ 1.33
CHW10: Channelizing Line (White) @ 1.67
CHY8: Channelizing Line (Yellow) @ 1.33
CHY10: Channelizing Line (Yellow) @ 1.67
CLW6: Crosswalk Line (White) @ 2.00
DCY4: Double Centerline (Yellow) @ 1.34
DCY6: Double Centerline (Yellow) @ 2.00
DDY4: Double Dotted Line (Yellow) @ 0.44
DDY6: Double Dotted Line (Yellow) @ 0.67
DLW4: Dotted Line (White) @ 0.22
DLW6: Dotted Line (White) @ 0.33
DLY4: Dotted Line (Yellow) @ 0.22
DLY6: Dotted Line (Yellow) @ 0.33
ELW4: Edge Line Right (White) @ 0.67
ELW6: Edge Line Right (White) @ 1.00
ELY4: Edge Line Left (Yellow) @ 0.67
ELY6: Edge Line Left (Yellow) @ 1.00
LDW8: Lane Drop (White) @ 0.33
LDW10: Lane Drop (White) @ 0.42
MNY6: Median Nose (Yellow) @ 1.00
NPY4: No Passing Zone Line (Yellow) @ 0.84
NPY6: No Passing Zone Line (Yellow) @ 1.25
RLW4: Ramp Edge Line Right (White) @ 0.67
RLW6: Ramp Edge Line Right (White) @ 1.00
RLY4: Ramp Edge Line Left (Yellow) @ 0.67
RLY6: Ramp Edge Line Left (Yellow) @ 1.00
SLW2: Stop Line (White) @ 4.00
SLW4: Solid Lane Line (White) @ 0.67
SLW6: Solid Lane Line (White) @ 1.00
SPW4: Sloped Curb 4" (White) @ 2.16
SPW6: Sloped Curb 6" (White) @ 2.28
SPY4: Sloped Curb 4" (Yellow) @ 2.16
SPY6: Sloped Curb 6" (Yellow) @ 2.28
STW6: Standard Curb 6" (Yellow) @ 2.03
STY6: Standard Curb 6" (Yellow) @ 2.03
YLW2: Yield Line (White) @ 1.15

Road ID	Station From	Station To	Lane	Marking Type	Left	Center	Right	BLW6 Factored (STA)	CHW10 Factored (STA)	CHY10 Factored (STA)	CLW6 Factored (STA)	DCY6 Factored (STA)	DLW6 Factored (STA)	ELW6 Factored (STA)	ELY6 Factored (STA)	MNY6*** Factored (STA)	NPY6** Factored (STA)	RLW6 Factored (STA)	RLY6 Factored (STA)	SLW2 Factored (STA)	SLW6 Factored (STA)	Remarks
Hickman Rd.	2689+02.04	2691+02.00	EB	Waterborne/Solvent Paint		X															2.00	
Hickman Rd.	2691+02.00		EB	Waterborne/Solvent Paint		X														2.40		
Hickman Rd.	2691+08.17	2692+16.48	EB	Waterborne/Solvent Paint			X				2.17											
Hickman Rd.	2692+64.61	2693+01.42	EB	Waterborne/Solvent Paint	X										0.37							
Hickman Rd.	2692+69.20	2693+01.42	EB	Waterborne/Solvent Paint		X		0.08														
Hickman Rd.	2692+69.20	2693+01.42	EB	Waterborne/Solvent Paint		X		0.08														
Hickman Rd.	2692+69.20	2693+01.42	EB	Waterborne/Solvent Paint			X							0.32								
Ramp A	3419+33.36	3419+86.20	SB	Waterborne/Solvent Paint		X							0.17									
Ramp A	3419+47.73	3427+19.54	SB	Waterborne/Solvent Paint			X											7.72				
Ramp A	3419+57.56	3420+86.86	SB	Waterborne/Solvent Paint	X														1.29			
Ramp A	3419+67.72	3419+98.77	SB	Waterborne/Solvent Paint		X														1.68		
Ramp A	3419+86.12	3423+04.32	SB	Waterborne/Solvent Paint		X		0.80														
Ramp A	3420+41.61	3421+12.34	SB	Waterborne/Solvent Paint			X											0.71				
Ramp A	3420+44.81	3420+81.49	SB	Waterborne/Solvent Paint		X														1.56		
Ramp A	3420+62.92	3420+63.11	SB	Waterborne/Solvent Paint		X							0.40									
Ramp A	3420+64.69	3423+04.31	SB	Waterborne/Solvent Paint		X		0.60														
Ramp A	3420+79.87	3427+23.29	SB	Waterborne/Solvent Paint	X														7.78			
Ramp A	3420+86.86	3423+04.31	SB	Waterborne/Solvent Paint	X				7.95													
Ramp A	3423+04.31	3427+21.43	SB	Waterborne/Solvent Paint		X		1.04														
Ramp B	4409+50.00	4418+19.01	NB	Waterborne/Solvent Paint	X														9.97			
Ramp B	4409+50.00	4416+05.97	NB	Waterborne/Solvent Paint		X		1.64														
Ramp B	4409+51.70	4419+61.11	NB	Waterborne/Solvent Paint			X											10.97				
Ramp B	4416+05.97	4417+61.00	NB	Waterborne/Solvent Paint	X				2.59													
Ramp B	4416+05.97	4419+30.45	NB	Waterborne/Solvent Paint		X		0.81														
Ramp B	4416+05.97	4418+23.49	NB	Waterborne/Solvent Paint		X		0.54														
Ramp B	4416+74.01	4417+55.78	NB	Waterborne/Solvent Paint	X				1.37													
Ramp B	4417+55.78	4418+51.79	NB	Waterborne/Solvent Paint			X											1.57				
Ramp B	4417+63.22	4419+56.34	NB	Waterborne/Solvent Paint	X														1.93			
Ramp B	4418+03.45	4418+41.84	NB	Waterborne/Solvent Paint		X														1.72		
Ramp B	4418+23.49	4418+35.23	NB	Waterborne/Solvent Paint		X							0.63									
Ramp B	4419+14.46	4419+46.62	NB	Waterborne/Solvent Paint		X														1.68		
Ramp B	4419+30.32	4419+72.20	NB	Waterborne/Solvent Paint		X							0.63									
Ramp C	5409+49.91	5418+25.70	SB	Waterborne/Solvent Paint	X														10.27			
Ramp C	5409+52.38	5414+48.97	SB	Waterborne/Solvent Paint		X							1.64									
Ramp C	5409+52.38	5418+95.93	SB	Waterborne/Solvent Paint			X											10.48				
Ramp C	5414+48.97	5417+29.37	SB	Waterborne/Solvent Paint		X		0.70														
Ramp C	5417+16.66	5417+37.69	SB	Waterborne/Solvent Paint			X		0.35													
Ramp C	5417+16.66	5417+39.53	SB	Waterborne/Solvent Paint	X				0.38													
Ramp C	5417+29.37	5418+43.96	SB	Waterborne/Solvent Paint		X															2.57	
Ramp C	5417+37.69	5418+54.91	SB	Waterborne/Solvent Paint			X											1.89				

PAVEMENT MARKING LINE TYPES

Line factors based on 6-inch wide continuous line.
*BCY4 - Place on the same side of the roadway to match existing markings near the project.
**NPY4 - Estimating purposes only. No Passing Zone Lines will be located in the field.
***MNY6 - Factor of 1.00 includes number of 6-inch passes to cover median nose area.

BCY4: Broken Centerline (Yellow) @ 0.17
BCY6: Broken Centerline (Yellow) @ 0.25
BLC6: Broken Line Contrast (White/Black) @ 0.50
BLW4: Broken Lane Line (White) @ 0.17
BLW6: Broken Lane Line (White) @ 0.25
CBW6: Crosswalk Bar (White) @ 10.00
CHW8: Channelizing Line (White) @ 1.33
CHW10: Channelizing Line (White) @ 1.67
CHY8: Channelizing Line (Yellow) @ 1.33
CHY10: Channelizing Line (Yellow) @ 1.67
CLW6: Crosswalk Line (White) @ 2.00
DCY4: Double Centerline (Yellow) @ 1.34
DCY6: Double Centerline (Yellow) @ 2.00
DDY4: Double Dotted Line (Yellow) @ 0.44
DDY6: Double Dotted Line (Yellow) @ 0.67
DLW4: Dotted Line (White) @ 0.22
DLW6: Dotted Line (White) @ 0.33
DLY4: Dotted Line (Yellow) @ 0.22
DLY6: Dotted Line (Yellow) @ 0.33
ELW4: Edge Line Right (White) @ 0.67
ELW6: Edge Line Right (White) @ 1.00
ELY4: Edge Line Left (Yellow) @ 0.67
ELY6: Edge Line Left (Yellow) @ 1.00
LDW8: Lane Drop (White) @ 0.33
LDW10: Lane Drop (White) @ 0.42
MNY6: Median Nose (Yellow) @ 1.00
NPY4: No Passing Zone Line (Yellow) @ 0.84
NPY6: No Passing Zone Line (Yellow) @ 1.25
RLW4: Ramp Edge Line Right (White) @ 0.67
RLW6: Ramp Edge Line Right (White) @ 1.00
RLY4: Ramp Edge Line Left (Yellow) @ 0.67
RLY6: Ramp Edge Line Left (Yellow) @ 1.00
SLW2: Stop Line (White) @ 4.00
SLW4: Solid Lane Line (White) @ 0.67
SLW6: Solid Lane Line (White) @ 1.00
SPW4: Sloped Curb 4" (White) @ 2.16
SPW6: Sloped Curb 6" (White) @ 2.28
SPY4: Sloped Curb 4" (Yellow) @ 2.16
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Road ID	Station From	Station To	Lane	Marking Type	Left	Center	Right	BLW6 Factored (STA)	CHW10 Factored (STA)	CHY10 Factored (STA)	CLW6 Factored (STA)	DCY6 Factored (STA)	DLW6 Factored (STA)	ELW6 Factored (STA)	ELY6 Factored (STA)	MNY6*** Factored (STA)	NPY6** Factored (STA)	RLW6 Factored (STA)	RLY6 Factored (STA)	SLW2 Factored (STA)	SLW6 Factored (STA)	Remarks
Ramp C	5417+39.53	5418+97.88	SB	Waterborne/Solvent Paint	X														2.14			
Ramp C	5418+54.91	5418+60.29	SB	Waterborne/Solvent Paint			X		0.37													
Ramp C	5418+97.88	5419+09.30	SB	Waterborne/Solvent Paint	X				0.65													
Ramp D	6420+05.30	6420+16.99	NB	Waterborne/Solvent Paint	X				0.65													
Ramp D	6420+16.99	6421+76.40	NB	Waterborne/Solvent Paint	X														2.14			
Ramp D	6420+18.41	6427+12.27	NB	Waterborne/Solvent Paint			X											7.97				
Ramp D	6420+39.40	6420+45.01	NB	Waterborne/Solvent Paint			X		0.38													
Ramp D	6420+57.17	6421+77.33	NB	Waterborne/Solvent Paint		X															2.65	
Ramp D	6420+74.14	6427+12.56	NB	Waterborne/Solvent Paint	X														7.95			
Ramp D	6421+76.40	6422+04.67	NB	Waterborne/Solvent Paint	X				0.47													
Ramp D	6421+77.33	6427+12.27	NB	Waterborne/Solvent Paint		X		1.34														
Ramp D	6421+77.83	6422+04.67	NB	Waterborne/Solvent Paint			X		0.45													
NW 111th St	3686+33.18	3688+67.00	SB	Waterborne/Solvent Paint	X												2.92					
NW 111th St	3686+33.35	3688+66.76	NB	Waterborne/Solvent Paint	X												2.92					
NW 111th St	3688+08.77	3689+73.53	NB	Waterborne/Solvent Paint			X							1.65								
NW 111th St	3688+67.00	3690+55.51	SB	Waterborne/Solvent Paint	X										1.89							
NW 111th St	3688+67.00	3690+55.51	NB	Waterborne/Solvent Paint	X										1.89							
NW 111th St	3688+67.00	3690+55.51	NB	Waterborne/Solvent Paint		X															1.89	
NW 111th St	3688+67.00	3690+55.51	NB	Waterborne/Solvent Paint		X															1.89	
NW 111th St	3690+56.51		NB	Waterborne/Solvent Paint		X														1.64		
NW 111th St	3690+56.51	3690+58.51		Waterborne/Solvent Paint		X										0.13						
NW 111th St	3690+87.90	3692+02.26	NB	Waterborne/Solvent Paint			X				2.29											
NW 111th St	3692+21.47	3694+01.91		Waterborne/Solvent Paint		X				11.96												
NW 111th St	3692+23.23		SB	Waterborne/Solvent Paint		X														1.32		
NW 111th St	3692+23.23	3693+92.39	SB	Waterborne/Solvent Paint		X															1.69	
NW 111th St	3692+24.65	3693+95.47	NB	Waterborne/Solvent Paint			X							1.71								

Bid Quantity: Waterborne/Solvent Paint: 607.19
Pavement Markings Removed: 120.17

PAVEMENT MARKING SYMBOLS AND LEGENDS

Refer to PM-111

Roadway Identification	Station	Side	Pavement Symbol	Quantity (EA)	Groove Marking Needed?	Remarks
Hickman Rd.	1674+47.95	Right	STAW	1		
Hickman Rd.	1674+47.95	Left	STAW	2		
Hickman Rd.	1676+21.10	Right	CSLW	1		
Hickman Rd.	1676+26.06	Right	LTAW	1		
Hickman Rd.	1681+04.84	Right	STAW	2		
Hickman Rd.	1681+01.84	Left	STAW	2		
Hickman Rd.	1682+47.99	Left	RTAW	1		
Hickman Rd.	1683+88.22	Left	RTAW	1		
Hickman Rd.	2670+04.79	Right	RTAW	1		
Hickman Rd.	2671+45.02	Right	RTAW	1		
Hickman Rd.	2672+70.18	Right	STAW	2		
Hickman Rd.	2672+70.18	Left	STAW	2		
Hickman Rd.	2677+51.44	Left	LTAW	1		
Hickman Rd.	2677+56.33	Left	CSLW	1		
Hickman Rd.	2679+26.07	Right	STAW	2		
Hickman Rd.	2679+26.07	Left	STAW	1		
Ramp A	3419+84.65	Left	RTAW	1		
Ramp A	3419+97.99	Left	RTAW	1		
Ramp A	3420+58.86	Right	LTAW	1		
Ramp A	3420+77.22	Right	LTAW	1		
Ramp B	4418+08.10	Left	LTAW	1		
Ramp B	4418+24.66	Left	LTAW	1		
Ramp B	4419+12.32	Right	RTAW	1		
Ramp B	4419+25.57	Right	RTAW	1		
NW 111th St.	3686+70.16	Right	LTAW	1		
NW 111th St.	3686+77.91	Right	LTAW	1		
NW 111th St.	3687+84.75	Left	LTAW	1		
NW 111th St.	3687+92.71	Left	LTAW	1		
NW 111th St.	3688+98.30	Left	LTAW	1		
NW 111th St.	3688+98.30	Right	LTAW	1		
NW 111th St.	3689+03.05	Right	CSRW	1		
NW 111th St.	3689+73.30	Left	LTAW	1		
NW 111th St.	3689+73.30	Right	LTAW	1		
NW 111th St.	3689+78.05	Right	CSRW	1		
NW 111th St.	3690+48.30	Left	LTAW	1		
NW 111th St.	3690+48.30	Right	LTAW	1		
NW 111th St.	3690+53.06	Right	CSRW	1		
NW 111th St.	3692+26.69	Left	CSRW	1		
NW 111th St.	3692+31.45	Left	LTAW	1		
NW 111th St.	3693+01.69	Left	CSRW	1		
NW 111th St.	3693+06.45	Left	LTAW	1		

Total Pavement Marking Symbols: 47

262_05
9/28/22

UTILITIES (POINT 25 PROJECT)

This is a POINT 25 project and is subject to the provisions of IAC 761-115.25.

281_01
9/28/22

SECTION 404 PERMIT AND CONDITIONS

Construct this project according to the requirements of U.S. Army Corps of Engineers Nationwide 14, Permit No. 2024-0466. A copy of this permit is available from the Iowa DOT website (http://www.envpermits.iowadot.gov/). The U.S. Army Corps of Engineers reserves the right to visit the site without prior notice.

DRAINAGE STRUCTURE BY ROAD CONTRACTOR

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

Location	Type	Size (IN) (1)	Kind of Pipe (2)	Bedding Class	Design Cover (H) (FT)	Camber* (DR-102) (FT)	Apron No. (IN)	Apron No. (OUT)	Apron Guard* (DR-213) (No.)	Type 'C' Conn.* (DR-122)	Type 'C' Conn.* (No.)	Connected Pipe Joint* (DR-121)	Flow Line Elevation LT.	Flow Line Elevation RT.	Flow Line Elevation Other	Flow Line Elevation Other	Dimensions Lineal Feet Total (Left)	Dimensions Lineal Feet Total (Right)	Dimensions Lineal Feet Extensions	Dimensions Lineal Feet Extensions	Skew Ahead Degrees (Left)	Skew Ahead Degrees (Right)	Class 20 (CY)	Flowable Mortar	Floodable Backfill* (A)	Porous Backfill* (B)	Flooded Backfill(A+B)	Remarks
697+80.26	2000D	30.0	LCP	B	1.30	0.08	1		1	C-1	1	Type 3	882.35		882.23				8.00							0.4		
697+83.32	2000D	30.0	RCP	B		0.08		1		C-1	1	Type 3		880.51	880.57					4.00						0.2		

30" LCP, Trenched: 8 LF
30" RCP, Trenched: 4 LF
30" LCP Apron: 1
30" RCP Apron: 1

LONGITUDINAL SUBDRAIN SHOULDER

* Not a bid item.

Line No.	Road or Lane Identification	Station From	Station To	Side	Depth (IN) (D)	Subdrain Size (IN)	Length (FT)	Outlet Station	Outlet Type	Porous Backfill* (CY)	Remarks
1.0	STAGE 1										
2.0	111TH ST	3686+61.77	3690+53.37	Right	42.0	4.0	407.0			22.6	
3.0	STAGE 2										
4.0	RPB006_2	24417+69.58	24420+58.19	Right	30.0	4.0	299.3			14.5	Connect to existing subdrain
5.0	U.S.6/HICKMAN	672+12.97	673+17.09	Right	42.0	4.0	111.0	673+17.09	DR-303	8.7	Connects to Structure 40
6.0	U.S.6/HICKMAN	672+55.74	673+21.93	Left	42.0	4.0	71.6	673+21.93	DR-303	5.6	Connects to Structure 39
7.0	U.S.6/HICKMAN	673+19.11	674+77.65	Right	42.0	4.0	171.7	674+77.65	DR-303	13.4	Connects to Structure 40 and 41
8.0	U.S.6/HICKMAN	673+23.83	674+60.91	Left	42.0	4.0	151.4	674+60.91	DR-303	11.8	Connects to Structure 39 and 44
9.0	U.S.6/HICKMAN	674+87.33	677+82.56	Right	36.0	4.0	309.6	677+82.56	DR-303	19.5	Connects to Existing Subdrain and Structure 46
10.0	U.S.6/HICKMAN	675+47.99	678+64.33	Left	36.0	4.0	330.7	678+64.33	DR-303	20.9	Connects to Structure 43 and 49
11.0	U.S.6/HICKMAN	678+29.11	679+20.15	Right	42.0	4.0	121.0			6.7	
12.0	U.S.6/HICKMAN	678+45.19	679+15.37	Left	42.0	4.0	100.2			5.6	
13.0	U.S.6/HICKMAN	680+41.56	681+24.82	Left	42.0	4.0	113.3	681+24.82	DR-303	6.3	Connects to Structure 64
14.0	U.S.6/HICKMAN	681+35.62	684+02.39	Left	42.0	4.0	275.0	684+02.39	DR-303	21.4	Connects to Existing Subdrain and Structure 68
15.0	U.S.6/HICKMAN	681+84.12	683+39.45	Right	30.0	4.0	157.7	683+39.45	DR-303	7.6	Connects to Structure 72
16.0	U.S.6/HICKMAN	683+41.45	687+66.36	Right	42.0	4.0	434.2	683+41.45	DR-303	33.8	Connects to Structure 72 and 81
17.0	U.S.6/HICKMAN	684+04.31	687+66.39	Left	42.0	4.0	372.0	684+04.31	DR-303	29.0	Connects to Structure 68 and 80
18.0	U.S.6/HICKMAN	687+68.39	689+60.00	Left	42.0	4.0	195.6	687+68.39	DR-303	15.3	Connects to Structure 80 and 75
19.0	U.S.6/HICKMAN	687+68.49	689+59.42	Right	42.0	4.0	195.5	687+68.49	DR-303	15.3	Connects to Structure 81 and 76
20.0	U.S.6/HICKMAN	689+61.59	690+51.14	Left	42.0	4.0	91.7	689+61.59	DR-303	7.2	Connects to Structure 75
21.0	U.S.6/HICKMAN	689+61.64	690+87.06	Right	42.0	4.0	139.0	689+61.64	DR-303	10.9	Connects to Structure 76 and 79
22.0	U.S.6/HICKMAN	691+69.48	693+79.00	Right	42.0	4.0	201.7	691+69.48	DR-303	13.3	Connects to Structure 78 and Structure 87
23.0	U.S.6/HICKMAN	693+81.00	696+89.00	Left	42.0	4.0	312.6	696+89.00	DR-303	24.4	Connects to Structure 86 and 88
24.0	U.S.6/HICKMAN	693+81.22	696+89.07	Right	42.0	4.0	312.4	696+89.07	DR-303	24.3	Connects to Structure 87 and 89
25.0	U.S.6 TO 111TH	391+85.32	3692+98.60	Left	42.0	4.0	152.0			20.1	Connects to STG 4 Subdrain and Structure 84
26.0	111TH TO U.S.6	3692+98.68	693+78.97	Left	42.0	4.0	285.7	693+78.97	DR-303	23.4	Connects to Structure 86 and 83
27.0	111TH ST	3688+15.11	3690+53.76	Left	42.0	4.0	244.4			20.9	Connects to Structure 79
28.0	111TH ST	3690+38.81	3690+53.37	Right	42.0	4.0	44.6	3690+53.37	DR-303	2.5	Connects to STG 1 Subdrain and Structure 78
29.0	111TH ST	3693+00.58	3695+75.88	Left	42.0	4.0	291.9	3693+00.58	DR-303	24.9	Connects to Structure 84 and Cleanout
30.0	111TH ST	3693+00.67	3695+75.88	Right	42.0	4.0	264.5	3693+00.67	DR-303	20.6	Connects to Structure 83 and Cleanout
31.0	RPA006_1	13420+27.91	13419+69.86	Right	36.0	4.0	59.9	13419+69.86	DR-303	3.8	Connects to Existing Subdrain and Structure 43
32.0	RPB006_1	14418+77.99	14418+52.11	Right	36.0	4.0	27.3			1.8	Connects to Existing Subdrain and Structure 46
33.0	RPD006_1	16420+62.05	16420+68.41	Left	36.0	4.0	8.5	16420+62.05	DR-303	0.6	Connects to Existing Subdrain and Structure 49
34.0	STAGE 3										
35.0	U.S.6/HICKMAN	679+20.15	679+60.75	Right	42.0	4.0	70.6	679+60.75	DR-303	3.9	Connects to STG 2 Subdrain and Structure 47
36.0	U.S.6/HICKMAN	679+64.22	680+36.86	Right	42.0	4.0	83.4	680+36.86	DR-303	6.5	Connects to Structure 47 and 56
37.0	U.S.6/HICKMAN	679+15.37	679+47.07	Left	42.0	4.0	61.7	679+47.07	DR-303	3.4	Connects to STG 2 Subdrain and Structure 52
38.0	U.S.6/HICKMAN	679+52.71	680+41.56	Left	42.0	4.0	118.8			6.6	Connects to STG 2 Subdrain and Structure 52
39.0	111TH ST	3686+56.07	3688+15.11	Left	42.0	4.0	147.1	3686+56.07	DR-303	12.6	Connects to STG 3A Subdrain and Existing Structure

Division 1
4IN LONGITUDINAL SUBDRAIN = 6,734.6 LF
POROUS BACKFILL = 489.7 CY
DR-303 OUTLETS = 28 EA
CLEANOUTS = 2 EA

103_06
8/15/22

EMBANKMENT WITH MOISTURE CONTROL

Moisture Control is required for all Class 10 fill placed in all locations and depths. Topsoil will not require Moisture Control.

GEOTECHNICAL DESIGN

LICENSED PROFESSIONAL ENGINEER
MATTHEW D. CUSHMAN
P20478
IOWA

I hereby certify that this plan was prepared under my supervision and that engineering decisions with regard to the design were made by me or by other duly licensed Professional Engineers under the laws of the State of Iowa.

Matthew Cushman 4/21/26
Signature Date

Matthew Cushman
Printed or Typed Name

My license renewal date is December 31, 2026

Pages or sheets covered by this seal: CS.1 - CS.3 and Q.1 - Q.8

FILE NO.	ENGLISH	DESIGN TEAM IaDOT\Snyder\Terracon	POLK COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER CS.1

4/21/2026 3:17:16 PM [redacted]XVOORT@IOWAID

SHRINKAGE DATA

Material	%	Remarks
Class 10	30.0	
Topsoil	40.0	
Estimated Boulder Quantity	0.0	10 CY Class 12 Excavation

LIST OF SUBDRAIN WORK

Possible Standards: DR-121, DR-201, DR-203, DR-301, DR-302, DR-303, DR-305 and DR-306. Possible Detail: 500-10.

* Not a bid item

Line No.	Station From	Station To	Type of Installation	Pipe Type	Pipe Diameter (IN)	Pipe Length (LF)	Apron Type	Apron Quantity	Outlet Type	Outlet Quantity	Connected Pipe Joints Type* (DR-121)	Connected Pipe Joints No.* (DR-121)	Trench Drain (LF)	Granular Blanket Material (CY)	Porous Backfill* (CY)	Class ""A"" Crushed Stone* (CY)	Remarks
1.0	687+00.00	690+00.00												441.0			Note 1, US 6/Hickman Road WB Ditch, Q.4

1) WORKING BLANKET SHOWN ON THE Q SHEETS AND ON TAB 104_05C MAY BE EXTENDED, REDUCED, OR DELETED AS NEEDED BASED ON FIELD CONDITIONS AT THE TIME OF CONSTRUCTION.

SURVEY SYMBOLS

- Interstate Highway Symbol
- U.S. Highway Symbol
- Iowa Highway Symbol
- County Road Highway Symbol
- Evergreen Tree
- Deciduous Tree
- Fruit Tree
- Shrub (Bushes)
- Timber
- Hedge
- Stump
- Swamp
- Rock Outcrop
- Broken Concrete
- Revetment (Rip Rap)
- Cemetery
- Grave
- Cave
- Sink Hole
- Board Fence
- Chain Link or Security Fence
- Wire Fence
- Terrace
- Earth Dam or Dike (Existing)
- Tile Outlet
- Edge of Water
- Existing Drainage
- Right of Way Rail or Lot Corner
- Concrete Monument
- Well
- Windmill
- Beehive Intake
- Existing Intake
- Existing Utility Access (Manhole)
- Fire Hydrant
- WH Water Hydrant (Rural)
- Septic Tank
- Cistern
- L.P. Gas Tank (No Footing)
- Underground Storage Tank
- Latrine
- Satellite TV Dish

- WHU Water Hook Up
- RT Radio Tower
- TA Tower Anchor
- Guardrail (Beam or Cable)
- GP Guard Post (one or two)
- Guard Post (over two)
- FP Filler Pipe
- GV Gas Valve
- WV Water Valve
- SL Speed Limit Sign
- MM Mile Marker Post
- SIGN Sign
- TCB Traffic Signal Control Box
- RRB Rail Road Signal Control Box
- TSB Telephone Switch Box
- EB Electric Box

UTILITY LEGEND

- E1 MidAmerican Energy Company
  Matthew Novy (515) 901-8274
  Matthew.Novy@midamerican.com
- E2 City of Urbandale - Traffic Electric
  John Larson (515) 331-6718
  engpw@urbandale.org
- E3 City of Clive - Traffic Electric
  Jerry Freestone (515) 223-6231
  JFreestone@cityofclive.com
- E4 Iowa Department of Transportation (IDOT) Electric
  Jason Dale (515) 239-1995
  jason.dale@iowadot.us
- E5 GPRS - No Name Electric
- F0 Zayo - Fiber Optic
  John Ferraresi (847) 417-9609
  john.ferraresi@zayo.com
- F02 Lumen / CenturyLink - Fiber Optic
  Ashlie Clements (906) 284-2821
  Ashlie.Clements@lumen.com
- F03 MCI/Verizon - FIber Optic
  Grace Gilborn (515) 443-2865
  Grace.Gilborn@verizon.com
- F04 Iowa Communications Network (INC) Fiber Optic
  Timothy Flicknger (515) 491-3750
  timothy.flickinger@iowa.gov
- F05 Windstream Communications - Fiber Optic
  Mark Hussman (402) 677-5874
  Mark.Hussman@Windstream.com
- F06 Unite Private Network - Fiber Optic
  Wyatt Bohle (515) 361-0491
  Wyatt.Bohle@upnfiber.com
- F07 Clive Traffic - Fiber Optic
  Jerry Freestone (515) 223-6231
  JFreestone@cityofclive.com
- F08 Consolidated Communications - Fiber Optic
  Phillip Williams (515) 418-1937
  Phillip.Williams@consolidated.com
- F09 No Name (Unidentified) - Fiber Optic
- F010 Aureon - Fiber Optic
  Jeff Klocko (515) 830-0445
  jeff.klocko@aureon.com
- F011 Mediacom - Fiber Optic
  Jerry Broughton (515) 246-2252
  jbroughton@mediacomcc.com
- F013 Metronet - Fiber Optic
  Jeff Talbert (563) 505-1856
  Jeff.Talbert@metronet.com
- F014 Underground Joint Utility Trench
  Used by Various Utilities
- G MidAmerican Energy - Gas Line
  Matthew Novy (515) 901-8274
  Matthew.Novy@midamerican,com
- G2 Unknown - Gas Line
- GHP MidAmerican Energy - High Pres Gas Line
  Matthew Novy (515) 901-8274
  Matthew.Novy@midamerican.com
- MidAmerican Energy - Riser Pole
  Matthew Novy (515) 901-8274
  Matthew.Novy@midamerican.com
- MidAmerican Energy - Power Pole
  Matthew Novy (515) 901-8274
  Matthew.Novy@midamerican.com
- SAN. City of Clive - Sanitary Sewer
  Jim Hagelie (515) 223-6231
  JHagelie@cityofclive.com
- SAN.2 Des Moines Waste Water- Sanitary Sewer
  Patrick Brown (515) 323-8027
  PABrown@dmgov.org
- SAN.3 City of Urbandale - Sanitary Sewer
  John Larson (515) 331-6718
  engpw@urbandale.org
- ST S - Storm Sewer Co. 1
- T1 CenturyLink - Telephone Line
  Ashlie Clements (906) 284-2821
  Ashlie.Clements@lumen.com
- T2 Comm Data Link - Telephone Line
- TV Mediacom - TV Cable
  Jerry Broughton (515) 246-2252
  jbroughton@mediacomcc.com
- TV2 Proposed Route - TDI Cable TV Cable
- W Clive Public Works Water - Water Line
  Jim Hagelie (515) 223-6231
  JHagelie@cityofclive.com
- W2 Urbandale Water - Water Line
  Gail Palmer (515) 278-3940
  gpalmer@urbandalewater.org
- W3 Des Moines Water Works - Water Line
  Carla Schumacher (515) 323-6227
  cschumacher@dmww.com

PLAN VIEW COLOR LEGEND OF PLAN AND PROFILE SHEETS

LINEWORK	Design Color No.	
Green	(2)	Existing Topographic Features and Labels
Blue	(1)	Proposed Alignment, Stationing, Tic Marks, and Alignment Annotation
Magenta	(5)	Existing Utilities
SHADING	**Design Color No.**	
Lavender	(9)	Temporary Pavement Shading
Yellow	(4)	Proposed Pavement Shading
Orange	(6)	Proposed Granular Shading
Orange	(70)	Proposed Shoulder Granular Shading
Yellow	(68)	Proposed Shoulder Paved Full Depth Shading
Yellow	(132)	Proposed Shoulder Paved Partial Depth Shading
Gray, Dark	(112)	Proposed Grade and Pave Shading
Brown, Light	(236)	Grading Shading
Orange, Light	(134)	Proposed Granular Entrance Shading
Yellow	(220)	Proposed Paved Entrance Shading
Tan	(8)	Proposed Sidewalk Shading
Blue, Light	(230)	Proposed Sidewalk Landing Shading
Pink	(11)	Proposed Sidewalk Ramp Shading
Green, Light	(225)	Existing Pavement Shading
Red	(3)	Proposed Raised Median Shading
Red	(3)	Delineates Restricted Areas
Tan	(8)	Splash Guard
Orange	(6)	Maintenance Curb

PROFILE VIEW COLOR LEGEND OF PLAN AND PROFILE SHEETS

LINEWORK	Design Color No.	
Green	(10)	Existing Ground Line Profile
Blue	(1)	Proposed Profile and Annotation
Magenta	(5)	Existing Utilities
Blue, Light	(230)	Proposed Ditch Grades, Left
Black	(0)	Proposed Ditch Grades, Median
Rust	(14)	Proposed Ditch Grades, Right

- Reference Point / Station — Survey Line
- Section Corner
- Ground Line Intercept
- Saw Cut
- Guardrail
- Trench Drain
- HighTension Cable Guardrail
- Sheet Pile
- Pavement Removal
- Clearing & Grubbing Area

RIGHT-OF-WAY LEGEND

- Proposed Right-of-Way
- Existing Right of Way
- Lot Lines
- Temporary Easement

CHOOSE LINE COLOR FOR TEMP EASEMENT

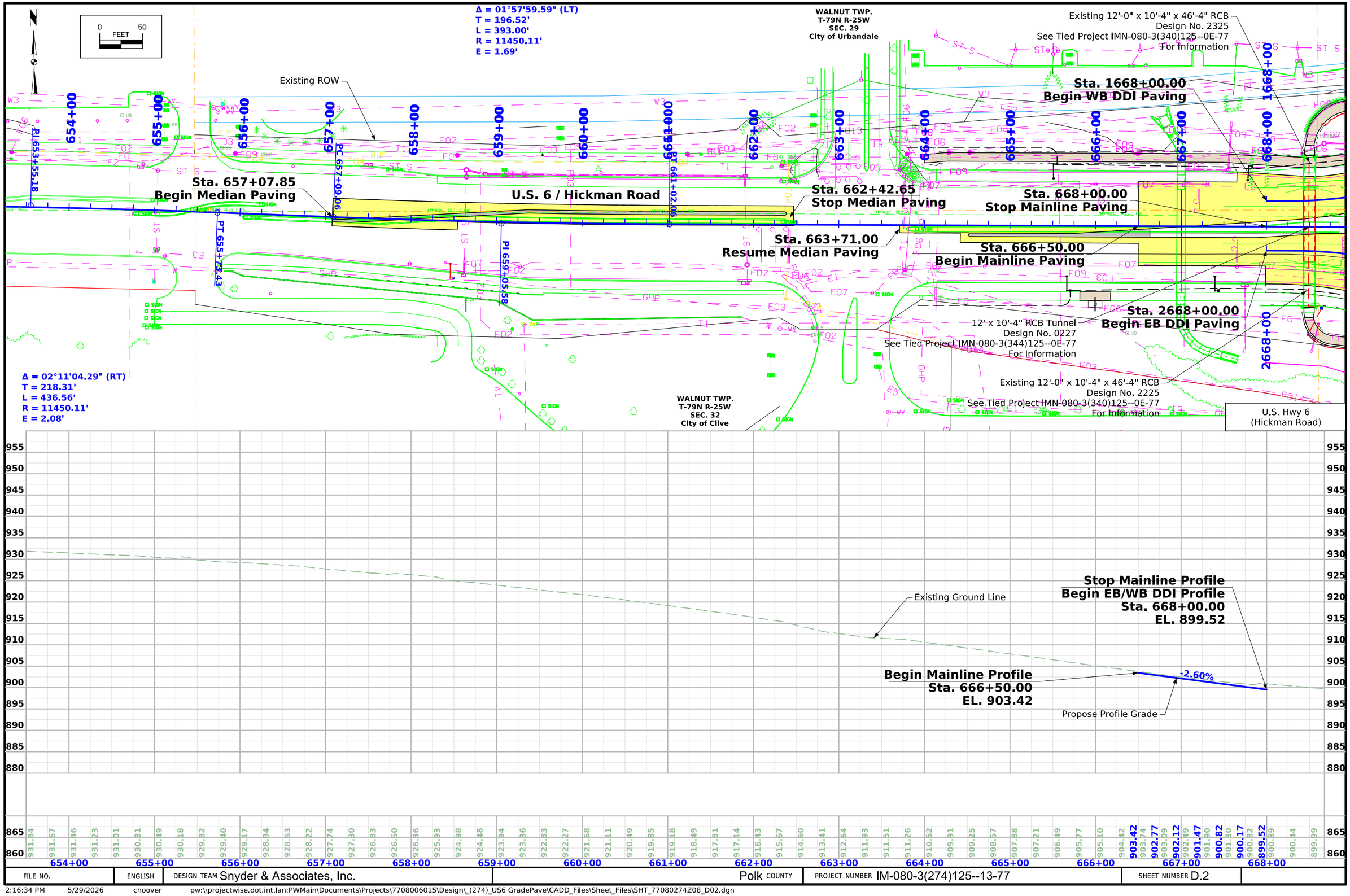
PLAN AND PROFILE LEGEND AND SYMBOL INFORMATION SHEET

(COVERS SHEET SERIES D, E, & K)

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER D.1

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V2



FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER D.2

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V2

(1) Refer to Tied Project IM-080-3(277)125--13-777 For Traffic Signal and Lighting Details (Typ.).

WALNUT TWP.
T-79N R-25W
SEC. 29
City of Urbandale

Δ = 15°20'00.98" (LT)
T = 69.60'
L = 138.36'
R = 517.00'
E = 4.66'

Δ = 20°00'00.00" (LT)
T = 91.16'
L = 180.47'
R = 517.00'
E = 7.98'

Existing 12'-0" x 11'-4" x 46'-4" RCB
Design No. 2325
See Tied Project IMN-080-3(340)125--0E-77
For Information

U.S. 6 / Hickman Road

Sta. 1668+00.00
Begin WB DDI Paving

12' x 10'-4" RCB Tunnel
Design No. 0227
See Tied Project IMN-080-3(344)125--0E-77
For Information

Existing 12'-0" x 11'-4" x 46'-4" RCB
Design No. 2225
See Tied Project IMN-080-3(340)125--0E-77
For Information

Δ = 33°19'59.03" (RT)
T = 150.59'
L = 292.63'
R = 503.00'
E = 22.06'

WALNUT TWP.
T-79N R-25W
SEC. 32
City of Clive

I-80/35
SB/WB

U.S. Hwy 6 (Hickman Road)
Westbound DDI

0 50
FEET

Stop Mainline Profile
Begin WB DDI Profile
Sta. 1668+00.00
EL. 899.52

VPC = 1670+50.00
EL = 893.03

VPT = 1672+50.00
EL = 888.68

VPC = 1674+00.00
EL = 886.06

VPT = 1676+00.00
EL = 883.41

Existing Ground Line

Propose Profile Grade

-2.60%
-1.75%
-1.75%
-0.90%

VPI = +50.00
EL = 890.43
L = 200.00'
K = 236
Design Speed = 45 MPH
SSD = 928

VPI = +00.00
EL = 884.31
L = 200.00'
K = 236
Design Speed = 45 MPH
SSD = 928

925 920 915 910 905 900 895 890 885 880 875 870 865 860 855 850

1662+00 1663+00 1664+00 1665+00 1666+00 1667+00 1668+00 1669+00 1670+00 1671+00 1672+00 1673+00 1674+00 1675+00 1676+00

835: 899.52 898.87 898.22 897.57 896.92 896.27 895.62 894.97 894.33 893.68 893.03 892.39 891.78 891.20 890.64 890.11 889.61 889.13 888.68 888.24 887.81 887.37 886.93 886.50 886.06 885.63 885.24 884.87 884.52 884.20 883.91 883.65 883.41 883.18 882.96

830

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER D.3

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V2

Δ = 20°00'00.00" (LT)
T = 91.16'
L = 180.47'
R = 517.00'
E = 7.98'

Δ = 22°20'44.27" (LT)
T = 102.17'
L = 201.75'
R = 517.31'
E = 9.99'

WALNUT TWP.
T-79N R-25W
SEC. 28
City of Urbandale

U.S. 6 / Hickman Road

Sta. 1687+49.78
End WB DDI Paving

I-80/35
NB/EB

111th Street

U.S. Hwy 6 (Hickman Road)
Westbound DDI

0 50
FEET

(1) Refer to Tied Project IM-080-3(277)125--13-777 For Traffic Signal and Lighting Details (Typ.).

Δ = 44°10'18.45" (RT)
T = 204.10'
L = 387.78'
R = 503.00'
E = 39.83'

WALNUT TWP.
T-79N R-25W
SEC. 33
City of Clive

VPI = +50.00
EL = 878.46
L = 165.00'
K = 405
Design Speed = 45 MPH
SSD = 935

VPC = 1680+67.50
EL = 879.20

VPT = 1682+32.50
EL = 877.38

VPC = 1682+60.00
EL = 877.02

VLP = 1684+11.58
EL = 876.03

VPI = +75.00
EL = 874.21
L = 430.00'
K = 116
Design Speed = 45 MPH
SSD = 449

VPT = 1686+90.00
EL = 879.37

-0.90%
-1.31%
-1.31%
+2.40%

Stop WB DDI Profile
Start Mainline Profile
Sta. 1687+49.78
EL. 880.81

Propose Profile Grade

Existing Ground Line

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER D.4

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V2

(1) Refer to Tied Project IM-080-3(277)125--13-777 For Traffic Signal and Lighting Details (Typ.).

WALNUT TWP.
T-79N R-25W
SEC. 29
City of Urbandale

Δ = 35°15'59.47" (LT)
T = 159.88'
L = 309.60'
R = 503.00'
E = 24.80'

I-80/35 SB/WB

Existing 12'-0" x 11'-4" x 46'-4" RCB
Design No. 2325
See Tied Project IMN-080-3(340)125--0E-77
For Information

Sta. 2668+00.00
Begin EB DDI Paving

U.S. 6 / Hickman Road

12' x 10'-4" RCB Tunnel
Design No. 0227
See Tied Project IMN-080-3(344)125--0E-77
For Information

WALNUT TWP.
T-79N R-25W
SEC. 32
City of Clive

Δ = 13°15'57.52" (RT)
T = 60.12'
L = 119.70'
R = 517.00'
E = 3.48'

Existing 12'-0" x 11'-4" x 46'-4" RCB
Design No. 2225
See Tied Project IMN-080-3(340)125--0E-77
For Information

Δ = 20°00'00.00" (RT)
T = 91.16'
L = 180.47'
R = 517.00'
E = 7.98'

U.S. Hwy 6 (Hickman Road)
Eastbound DDI

0 FEET 50

Existing Ground Line

Propose Profile Grade

Stop Mainline Profile
Begin EB DDI Profile
Sta. 2668+00.00
EL. 899.52

VPC = 2670+75.00
EL = 892.37

VPT = 2672+75.00
EL = 888.18

VPC = 2674+00.00
EL = 886.19

VPT = 2676+00.00
EL = 883.65

-2.60%
-1.59%
-1.59%
-0.95%

VPI = +75.00
EL = 889.77
L = 200.00'
K = 198
Design Speed = 45 MPH
SSD = 793

VPI = +00.00
EL = 884.60
L = 200.00'
K = 312
Design Speed = 45 MPH
SSD = 1196

925 920 915 910 905 900 895 890 885 880 875 870 865 860 855 850 835 830

2662+00 2663+00 2664+00 2665+00 2666+00 2667+00 2668+00 2669+00 2670+00 2671+00 2672+00 2673+00 2674+00 2675+00 2676+00

899.52 898.87 898.22 897.57 896.92 896.27 895.62 894.97 894.32 893.67 893.02 892.37 891.74 891.13 890.56 890.02 889.51 889.04 888.59 888.18 887.78 887.38 886.99 886.59 886.19 885.80 885.44 885.09 884.76 884.45 884.17 883.90 883.65 883.41 883.18

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER D.5

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V2

I-80/35 NB/EB

WALNUT TWP.
T-79N R-25W
SEC. 28
City of Urbandale

Δ = 18°10'25.82" (LT)
T = 80.45'
L = 159.55'
R = 503.00'
E = 6.39'

111th Street

Sta. 2686+39.19
End EB DDI Paving

U.S. 6 / Hickman Road

Δ = 20°00'00.00" (RT)
T = 91.16'
L = 180.47'
R = 517.00'
E = 7.98'

0 FEET 50

(1) Refer to Tied Project IM-080-3(277)125–13-777 For Traffic Signal and Lighting Details (Typ.).

WALNUT TWP.
T-79N R-25W
SEC. 33
CIty of CIlve

U.S. Hwy 6 (Hickman Road)
Eastbound DDI

VPI = +50.00
EL = 878.43
L = 165.00'
K = 613
Design Speed = 45 MPH
SSD = 1150

VPC = 2680+67.50
EL = 879.21

VPT = 2682+32.50
EL = 877.42

VPC = 2682+65.00
EL = 877.03

VLP = 2684+06.44
EL = 876.17

VPI = +75.00
EL = 874.47
L = 420.00'
K = 116
Design Speed = 45 MPH
SSD = 449

VPT = 2686+85.00
EL = 879.51

-0.95%
-1.22%
-1.22%
+2.40%

Propose Profile Grade

Existing Ground Line

Stop EB DDI Profile
Start Mainline Profile
Sta. 2687+39.19
EL. 880.81

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER D.6

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V2

1 Refer to Tied Project IM-080-3(277)125--13-777 For Traffic Signal and Lighting Details (Typ.).

WALNUT TWP.
T-79N R-25W
SEC. 28
City of Urbandale

STA 697+80.26
Remove Apron
Install 37" X 23" Arch Pipe Extension
Install 37" X 23" Concrete Apron
FL (LT) = 882.35'
FL (Other) = 882.23'
STA 697+79.80
30" RCP x 110'

0 FEET 50

11th Street

Sta. 687+00.00
Begin Mainline Paving

U.S. 6 / Hickman Road

Sta. 697+00.00
End Mainline Paving

PC 697+16.64
PT 697+39.36

Sta. 702+13.77
End Paving

STA. 3691+37.90 (111th Street)
STA. 691+38.83 (U.S. 6/Hickman Road)

WALNUT TWP.
T-79N R-25W
SEC. 33
City of Clive

Δ = 01°18'06.26" (RT)
T = 11.36'
L = 22.72'
R = 1000.00'
E = 0.06'

STA 697+83.32
Remove Apron
Install 30" RCP Extension
Install 30" Apron
FL (Other) = 880.57'
FL (RT) = 880.51'
STA 697+79.80
30" RCP x 110'

Begin Mainline Profile
Sta. 687+00.00
EL. 880.81

VPI = +00.00
EL = 892.81
L = 400.02'
K = 113
Design Speed = 45 MPH
SSD = 494

+2.40% -1.14%

VHP = 692+71.19
EL = 891.26

Propose Profile Grade

VPC = 689+99.99
EL = 888.01

VPT = 694+00.01
EL = 890.53

Stop Mainline Profile
Sta. 697+00.00
EL. 886.94

Existing Ground Line

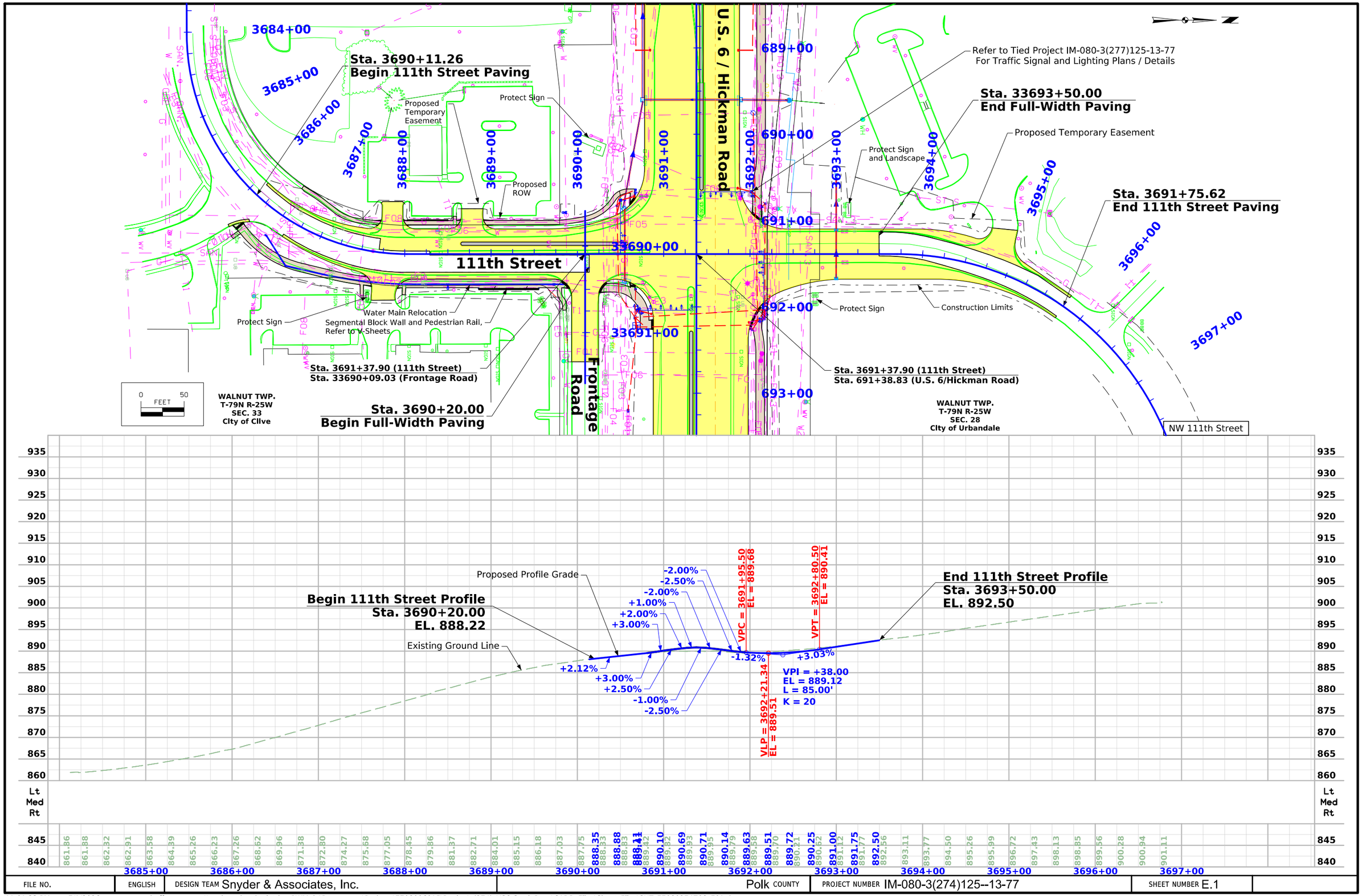
Lt	880.81	882.01	883.21	884.41	885.01	885.61	886.21	886.81	887.41	888.01	888.58	889.10	889.56	889.97	890.32	890.61	890.85	891.04	891.17	891.24	891.26	891.23	891.14	890.99	890.79	890.53	890.25	889.96	889.67	889.39	888.82	888.53	888.25	887.96	887.68	887.39	887.11
Med	881.54	882.42	883.27	884.08	884.81	885.45	886.06	886.55	887.21	887.71	888.09	888.43	888.75	889.08	889.39	889.66	889.85	890.04	890.23	890.30	890.42	890.45	890.48	890.52	890.48	890.33	890.18	890.03	889.79	889.53	889.26	888.83	888.45	888.01	887.59	887.20	886.82
Rt	880.61	881.41	882.01	882.61	883.21	883.81	884.41	885.01	885.61	886.21	886.81	887.41	888.01	888.58	889.10	889.56	889.97	890.32	890.61	890.85	891.04	891.17	891.24	891.26	891.23	891.14	890.99	890.79	890.53	890.25	889.96	889.67	889.39	888.82	888.53	888.25	887.96	887.68	887.39	887.11

687+00 688+00 689+00 690+00 691+00 692+00 693+00 694+00 695+00 696+00 697+00 698+00 699+00 700+00 701+00

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER D.7

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V2



FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER E.1

11:01:33 PM 7/1/2026 ncarhoff pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\7708006015\Design_(274)_US6 GradePave\CADD_Files\Sheet_Files\SHT_77080274Z08_E01.dgn

V2

U.S. 6 / Hickman Road

3691+00

3690+00

33690+00

33691+00

111th Street

Frontage Road

Sta. 33691+33.81
End Frontage Road Paving

Sta. 33690+36.53
Begin Frontage Road Paving

POB 33690+59.03

POE 33691+58.80

STA. 3690+09.03 (111th Street)
STA. 33690+09.03 (Frontage Road)

WALNUT TWP.
T-79N R-25W
SEC. 33
CIty of Clive

0 FEET 20

111th Street
Frontage Road

Begin Frontage Profile
Sta. 33690+36.53
EL. 887.59
Match Existing

VPI = +79.03
EL = 887.37
L = 60.00'
K = 22

Proposed Profile Grade

End Frontage Profile
Sta. 33691+33.81
EL. 885.62
Match Existing

-0.49%

-3.19%

Existing Ground Line

VPC = 33690+49.03
EL = 887.52

VPT = 33691+09.03
EL = 886.41

905 900 895 890 885 880 875 870

Lt Med Rt

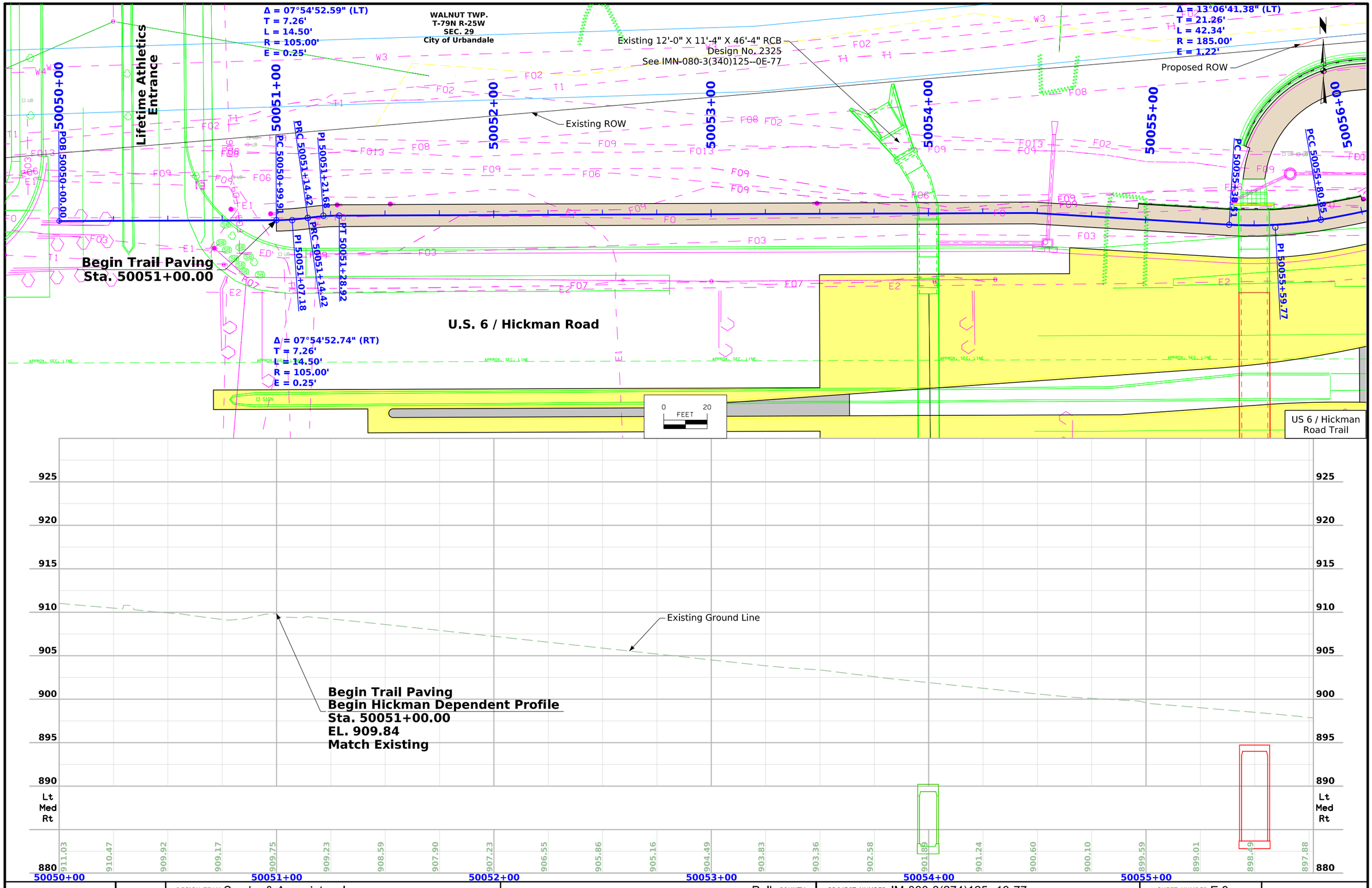
888.29 887.88 887.76 887.58 887.51 887.39 887.24 886.99 886.68 886.38 885.90 885.83 885.62 885.22

33688+00 33689+00 33690+00 33691+00 33692+00 33693+00

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER E.2

10:51:59 PM 7/1/2026 ncarhoff pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\7708006015\Design_(274)_US6 GradePave\CADD_Files\Sheet_Files\SHT_77080274Z08_E02.dgn

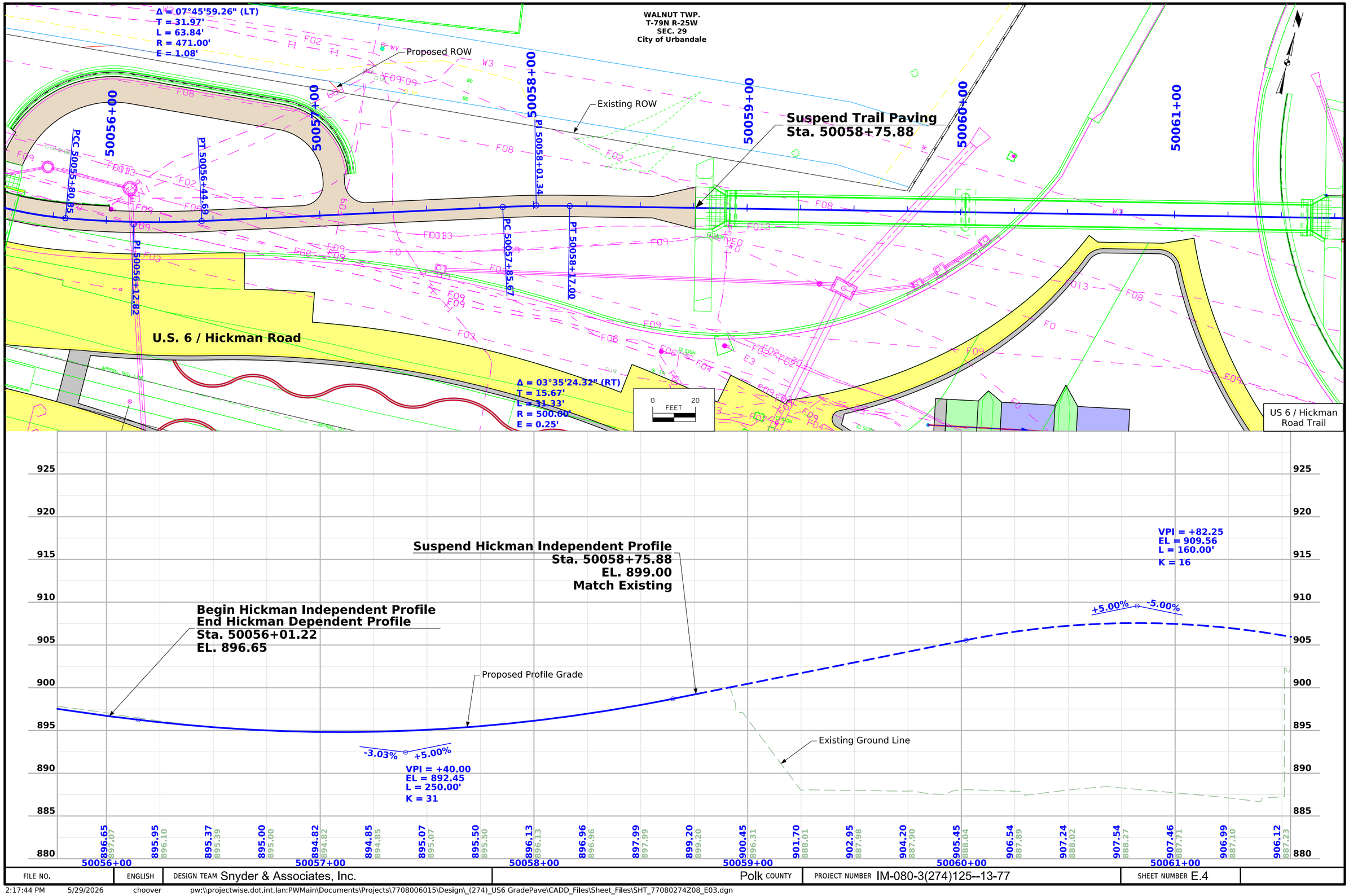
V2



FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER E.3

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V2



FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER E.4

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V2

WALNUT TWP.
T-79N R-25W
SEC, 29
City of Urbandale

Δ = 76°22'12.44" (LT)
T = 39.33'
L = 66.65'
R = 50.00'
E = 13.61'

PI 50063+42.14

50064+00

50063+00

50059+00

50060+00

50061+00

PCC Landscape Edger and Fence,
Refer to U-Sheets

PT 50063+70.68

PC 50062+92.14

PCC Landscape Edger,
Refer to U-Sheets

Suspend Trail Paving
Sta. 50063+82.18

Resume Trail Paving
Sta. 50061+78.40

PT 50062+44.56

PC 50061+77.91

PI 50062+17.23

Δ = 90°00'00.00" (RT)
T = 50.00'
L = 78.54'
R = 50.00'
E = 20.71'

I-80/35 WB/SB

I-80/35 EB/NB

US 6 / Hickman
Road Trail

0 FEET 20

VHIP=50060+82.22
EL = 907.56

VPI = +82.25
EL = 909.56
L = 160.00'
K = 16

+5.00%
-5.00%

VPC = 50060+02.25
EL = 905.56

VPT = 50061+62.25
EL = 905.56

VPC = 50061+87.50
EL = 904.29

VPT = 50062+22.50
EL = 902.77

-5.00%
-3.69%

VPI = +05.00
EL = 903.42
L = 35.00'
K = 27

VPC = 50063+20.00
EL = 899.18

-3.69%
+1.00%

VPT = 50063+80.00
EL = 898.37

VPI = +50.00
EL = 898.07
L = 60.00'
K = 13

VLP = 50063+67.20
EL = 898.31

Resume Hickman Independent Profile
Sta. 50061+78.40
EL. 904.75
Match Existing

Suspend Hickman Independent Profile
Sta. 50063+82.18
EL. 898.39
Match Existing

50059+00	50060+00	50061+00	50062+00	50063+00	50064+00
900.45 / 896.31	901.70 / 888.01	902.95 / 887.98	904.20 / 887.90	905.45 / 888.04	906.54 / 887.89
907.24 / 888.02	907.54 / 888.27	907.46 / 887.71	906.99 / 887.10	906.12 / 887.23	904.92 / 904.92
903.70 / 903.20	902.68 / 902.18	901.76 / 901.26	900.84 / 900.34	899.91 / 899.41	899.00 / 898.50
898.42 / 897.92	898.33 / 898.01	898.57 / 914.17	898.82 / 914.90	899.07 / 915.29	899.32 / 914.68

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER E.5

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V2

WALNUT TWP,
T-79N R-25W
SEC. 28
City of Urbandale

Resume Trail Paving
Sta. 50065+93.84

PCC Landscape Edger and Fence, Refer to U-Sheets

PCC Landscape Edger, Refer to U-Sheets

Suspend Trail Paving
Sta. 50067+67.76

I-80/35 WB/SB

I-80/35 EB/NB

Δ = 90°00'00.00" (LT)
T = 50.00'
L = 78.54'
R = 50.00'
E = 20.71'

Δ = 90°00'00.00" (RT)
T = 50.00'
L = 78.54'
R = 50.00'
E = 20.71'

Δ = 46°11'01.97" (LT)
T = 74.61'
L = 141.06'
R = 175.00'
E = 15.24'

Δ = 46°16'34.95" (RT)
T = 64.10'
L = 121.15'
R = 150.00'
E = 13.12'

0 20 FEET

US 6 / Hickman Road Trail

Resume Hickman Independent Profile
Sta. 50065+93.84
EL. 898.40
Match Existing

VPC = 50065+90.00 EL = 898.43
VLP = 50066+05.88 EL = 898.35
VPT = 50066+60.00 EL = 899.27
VPC = 50067+20.00 EL = 901.32
VPT = 50067+60.00 EL = 902.96
VPC = 50067+85.00 EL = 904.16
VHP = 50068+50.00 EL = 905.72
VPT = 50069+15.00 EL = 904.16

-1.00% +3.41% +3.41% +4.80% +4.80% -4.80%

VPI = +25.00
EL = 898.08
L = 70.00'
K = 16

VPI = +40.00
EL = 902.00
L = 40.00'
K = 29

VPI = +50.00
EL = 907.28
L = 130.00'
K = 14

Suspend Hickman Independent Profile
Sta. 50067+67.76
EL. 903.33
Match Existing

915 910 905 900 895 890 885 880

Lt / Med / Rt

899.33 914.65	899.08 915.27	898.83 914.93	898.58 914.20	898.36 898.09	898.47 897.97	898.96 898.46	899.78 899.28	900.64 900.14	901.49 900.99	902.50 902.00	903.68 903.68	904.80 883.79	905.49 883.56	905.72 883.79	905.49 883.32	904.80 890.55	903.68 903.68	902.46 902.46	901.24 901.23	900.01 900.01	898.79 898.78	897.56 897.56	896.34 896.34
50065+00				50066+00				50067+00				50068+00				50069+00				50070+00			

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER E.6

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V2

Δ = 21°38'03.10" (LT)
T = 76.43'
L = 151.04'
R = 400.00'
E = 7.24'

WALNUT TWP.
T-79N R-25W
SEC. 28
City of Urbandale

Proposed ROW
Existing ROW
Temporary Easement

Resume Trail Paving
Sta. 50074+15.28

End Hickman Independent Trail Paving
Begin Hickman Dependent Trail Paving
Sta. 50075+82.18

50073+00
50074+00
50075+00
50076+00
50077+00
50078+00
50079+00

PC 50074+32.63
PT 50075+83.96
PI 50073+51.16
PI 50075+09.06

Δ = 21°18'51.27" (RT)
T = 84.68'
L = 167.40'
R = 450.00'
E = 7.90'

U.S. 6 / Hickman Road

0 FEET 20

US 6 / Hickman Road Trail

Resume Hickman Independent Profile
Sta. 50074+15.28
EL. 879.67
Match Existing

VPC = 50074+25.00
EL = 879.19

VPT = 50075+05.00
EL = 878.19

Proposed Profile Grade

End Hickman Independent Profile
Begin Hickman Dependent Profile
Sta. 50075+82.18
EL. 879.58

-4.90%
+2.40%

VPI = +65.00
EL = 877.23
L = 80.00'
K = 11

VLP = 50074+78.68
EL = 877.87

Existing Ground Line

905 900 895 890 885 880 875 870

Lt Med Rt

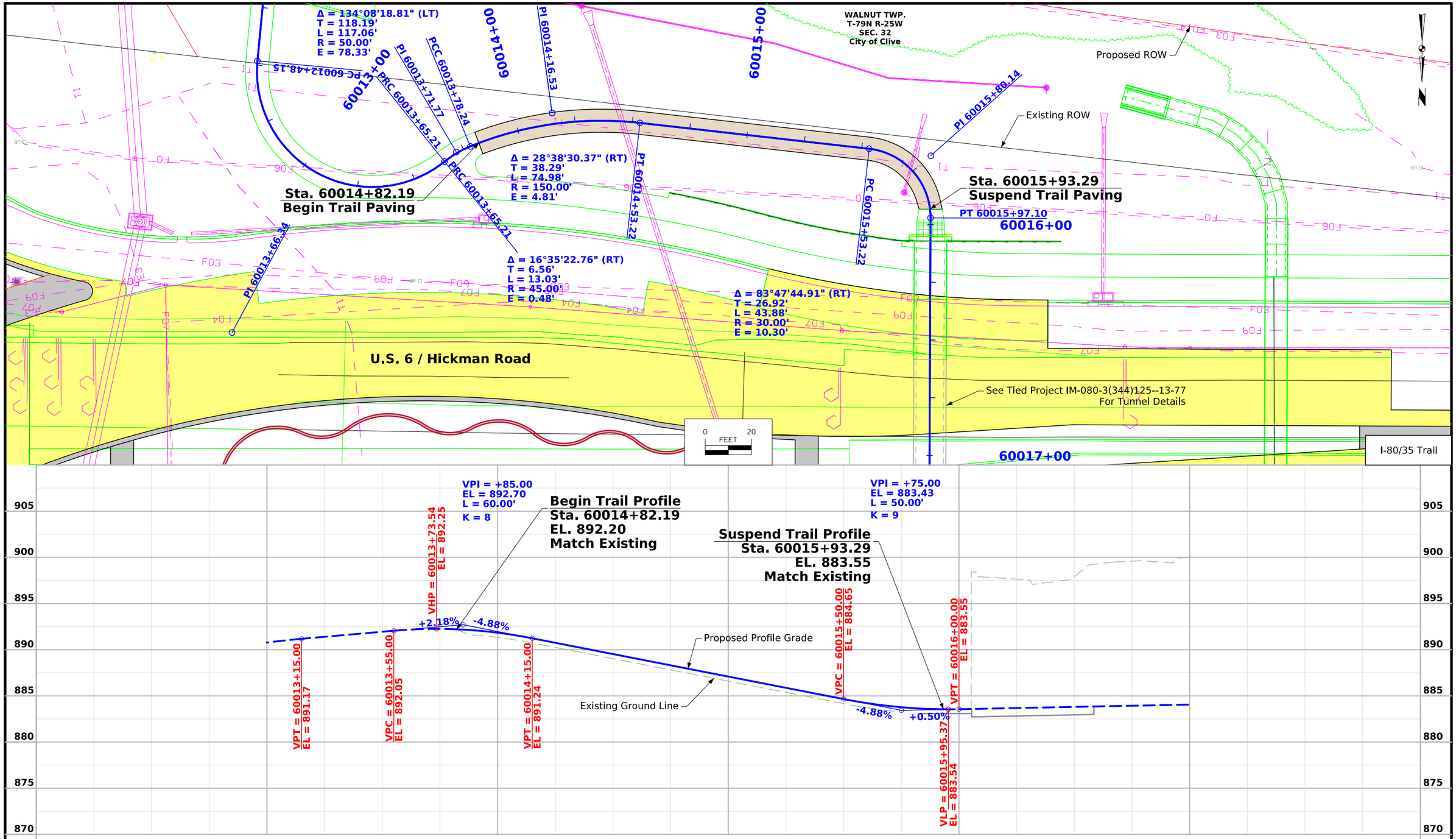
884.09 884.09 | 882.86 882.86 | 881.64 881.64 | 880.41 880.41 | 879.19 878.69 | 878.25 877.75 | 877.88 877.38 | 878.08 877.58 | 878.67 878.17 | 879.27 878.77 | 879.58 878.78 | 879.48 | 880.15 | 880.78 | 881.04 | 881.01 | 881.20 | 881.83 | 882.44 | 883.01 | 883.38 | 883.80 | 884.48

50074+00 50075+00 50076+00 50077+00 50078+00

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER E.7

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V2



FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER E.8

2:17:59 PM 5/29/2026 choover pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\7708006015\Design_(274)_US6 GradePave\CADD_Files\Sheet_Files\SHT_77080274Z08_E08.dgn

V2

WALNUT TWP.
T-79N R-25W
SEC. 29
City of Urbandale

Proposed ROW

Existing ROW

PI 60018+36.55

PC 60019+35.79

PI 60019+59.84

PI 60018+64.94

PI 60019+76.34

PC 60017+90.48

Sta. 60017+94.64
Resume Trail Paving

Sta. 60019+88.08
End Trail Paving
Sta. 50057+07.24 (Hickman Trail)
Sta. 60019+93.03 (I-80 Trail)

POE 60020+98.03

See Tied Project IM-080-3(344)125--13-77
For Tunnel Details

U.S. 6 / Hickman Road

Δ = 85°19'20.41" (RT)
T = 46.08'
L = 74.46'
R = 50.00'
E = 17.99'

Δ = 77°26'58.15" (RT)
T = 24.06'
L = 40.55'
R = 30.00'
E = 8.45'

0 FEET 20

I-80/35 Trail

Begin Independent Trail Profile
Sta. 60017+94.64
EL. 883.59
Match Existing

Proposed Profile Grade

Existing Ground Line

VPC = 60017+90.00
EL = 883.60

VLP = 60017+93.72
EL = 883.59

VPT = 60018+50.00
EL = 885.71

-0.50%

+7.52%

VPI = +20.00
EL = 883.45
L = 60.00'
K = 7

VPC = 60019+58.08
EL = 893.84

VPT = 60019+78.08
EL = 894.74

+7.52%

+1.50%

VPI = +68.08
EL = 894.59
L = 20.00'
K = 3

End Independent Trail Profile
Sta. 60019+88.08
EL. 894.89

Lt Med Rt	60017+00	60018+00	60019+00	60020+00	60021+00
	900.00	884.05	883.92	899.61	883.80	898.81	883.67	898.43	883.62	883.62	884.24	884.24	885.71	885.71	887.59	887.59	889.47	889.47	891.35	891.35	893.23	893.23	894.68	894.68	894.89	894.70	893.35	895.02	896.33

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER E.9

2:18:00 PM 5/29/2026 choover pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\7708006015\Design_(274)_US6 GradePave\CADD_Files\Sheet_Files\SHT_77080274Z08_E08.dgn

V2

WALNUT TWP.
T-79N R-25W
SEC. 29
City of Urbandale

650+00

655+00

660+00

Lifetime Athletics Entrance

U.S. 6/ Hickman Road

STA: 657+07.85
OFF: 22.00' LT

STA: 657+07.86
OFF: 10.50' RT

STA: 658+54.21
OFF: 10.50' RT

STA: 658+54.21
OFF: 1.00' RT

STA: 662+47.00
OFF: 22.00' LT

STA: 662+47.00
OFF: 1.00' RT

LEGEND

X	Tree Removal
	Tree Removal
	Pavement Removal
	Fence Removal
	Storm Removal
	Storm Plug and Abandon
	Guardrail Removal
	Water Main Removal
W	Water Main Plug and Abandon

WALNUT TWP.
T-79N R-25W
SEC. 32
City of Clive

0 50
FEET

Removal Plan
U.S. Hwy 6 (Hickman Road)

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER F.1

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V2

WALNUT TWP.
T-79N R-25W
SEC. 29
City of Urbandale

Lifetime Athletics Entrance

665+00

670+00

675+00

I-80/35 WB/SB

I-80/35 EB/NB

U.S. 6 / Hickman Road

STA: 663+71.00
OFF: 0.00' RT

STA: 663+71.00
OFF: 9.00' RT

STA: 664+42.00
OFF: 9.00' RT

STA: 664+47.61
OFF: 16.00' RT

STA: 666+50.00
OFF: 0.00' RT

STA: 666+50.00
OFF: 16.00' RT

STA: 666+50.00
OFF: 42.66' RT

STA: 666+50.00
OFF: 52.00' LT

STA: 667+65.05
OFF: 52.00' LT

STA: 667+65.24
OFF: 63.91' LT

STA: 667+98.98
OFF: 49.62' RT

STA: 667+98.98
OFF: 67.00' RT

STA: 668+12.80
OFF: 46.44' LT

STA: 668+12.80
OFF: 49.38' LT

STA: 669+20.05
OFF: 80.07' RT

STA: 669+24.14
OFF: 63.05' RT

STA: 669+68.83
OFF: 81.02' LT

STA: 669+72.32
OFF: 64.46' LT

STA: 672+36.54
OFF: 38.59' LT

STA: 672+36.55
OFF: 64.27' RT

STA: 672+36.61
OFF: 62.15' RT

STA: 672+36.77
OFF: 44.81' LT

STA: 673+12.55
OFF: 118.68' LT

STA: 673+16.94
OFF: 143.27' RT

STA: 673+52.73
OFF: 174.93' LT

STA: 673+57.43
OFF: 172.72' LT

STA: 673+72.39
OFF: 237.35' RT

STA: 673+80.62
OFF: 177.50' LT

STA: 673+81.48
OFF: 237.92' RT

STA: 673+82.64
OFF: 233.65' RT

Intake Removal

Intake Removal

LEGEND

X	Tree Removal
	Tree Removal
	Pavement Removal
	Fence Removal
	Storm Removal
	Storm Plug and Abandon
	Guardrail Removal
	Water Main Removal
W	Water Main Plug and Abandon

(1) Refer to Tied Project IM-080-3(275)125--13-77 For Deposition of Existing Sign.

(2) Remove existing bridge foundations to a depth of 5-feet below proposed pavement surface.

(3) Remove Existing 4' x 6' RCB Previously Capped and Abandoned.

WALNUT TWP.
T-79N R-25W
SEC. 32
City of Clive

0 50
FEET

Removal Plan
U.S. Hwy 6 (Hickman Road)

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER F.2

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V2

(1) Refer to Tied Project IM-080-3(275)125--13-77
For Deposition of Existing Sign.

WALNUT TWP.
T-79N R-25W
SEC. 28
City of Urbandale

I-80/35 EB/NB

STA: 679+83.96
OFF: 246.44' LT

STA: 679+78.91
OFF: 245.15' LT

STA: 679+73.25
OFF: 246.54' LT

STA: 679+68.13
OFF: 228.11' LT

STA: 679+95.16
OFF: 213.44' LT

Connect Subdrain
to Structure, Remove
Excess pipe to the south.

680+00

685+00

690+00

Intake Removal

Protect Sign

Protect Gas Pedestal

U.S. 6 / Hickman Road

Intake Removal

STA: 680+35.31
OFF: 80.12' RT

STA: 680+35.20
OFF: 85.02' RT

Intake Removal

Intake Removal

STA: 687+99.24
OFF: 36.07' RT

STA: 688+99.63
OFF: 48.88' RT

Intake Removal

Manhole Removal

STA: 678+89.97
OFF: 199.65' RT

STA: 679+01.69
OFF: 196.23' RT

STA: 678+97.26
OFF: 231.64' RT

STA: 679+44.60
OFF: 220.04' RT

STA: 679+15.32
OFF: 233.75' RT

STA: 679+21.65
OFF: 213.03' RT

Watermain Removal

111th Street

Remove Intake Top

LEGEND

X	Tree Removal
	Tree Removal
	Pavement Removal
	Fence Removal
	Storm Removal
	Storm Plug and Abandon
	Guardrail Removal
	Water Main Removal
W	Water Main Plug and Abandon

0 50
FEET

WALNUT TWP.
T-79N R-25W
SEC. 33
City of Clive

Removal Plan
U.S. Hwy 6 (Hickman Road)

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER F.3

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V2

WALNUT TWP.
T-79N R-25W
SEC. 28
City of Urbandale

STA: 697+99.20
OFF: 36.11' LT

STA: 697+99.77
OFF: 11.11' LT

695+00

700+00

705+00

STA: 701+39.18
OFF: 49.40' LT

STA: 701+39.30
OFF: 44.21' LT

STA: 701+41.60
OFF: 20.31' LT

STA: 701+41.71
OFF: 15.57' LT

U.S. 6 / Hickman Road

STA: 698+19.32
OFF: 18.88' RT

STA: 698+19.95
OFF: 46.18' RT

STA: 698+15.87
OFF: 45.63' RT

STA: 698+15.51
OFF: 47.13' RT

STA: 698+09.19
OFF: 48.00' RT

STA: 702+13.41
OFF: 23.56' RT

STA: 702+13.34
OFF: 27.96' RT

111th Street

LEGEND

- Tree Removal
- Tree Removal
- Pavement Removal
- Fence Removal
- Storm Removal
- Storm Plug and Abandon
- Guardrail Removal
- Water Main Removal
- Water Main Plug and Abandon

0 FEET 50

(1) Refer to Tied Project IM-080-3(275)125--13-77
For Deposition of Existing Sign.

WALNUT TWP.
T-79N R-25W
SEC. 33
City of Clive

Removal Plan
U.S. Hwy 6 (Hickman Road)

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER F.4	

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V2

WALNUT TWP.
T-79N R-25W
SEC. 33
City of Clive

WALNUT TWP.
T-79N R-25W
SEC. 28
City of Urbandale

U.S. 6 / Hickman Road

111th Street

3683+00
3684+00
3685+00
3686+00
3687+00
3688+00
3689+00
3690+00
3691+00
3692+00
3693+00
3694+00
3695+00
3696+00
3697+00
3698+00
3699+00

STA: 3686+50.36
OFF: 38.35' LT

STA: 3686+11.37
OFF: 19.59' LT

STA: 3686+11.37
OFF: 16.30' LT

STA: 3686+23.00
OFF: 27.12' RT

STA: 3686+24.50
OFF: 29.08' RT

STA: 3686+10.30
OFF: 47.57' RT

STA: 3686+12.62
OFF: 48.75' RT

STA: 3686+19.97
OFF: 55.10' RT

STA: 3686+23.23
OFF: 55.90' RT

Plug, Fill,
& Abandon
Watermain

STA: 3687+63.95
OFF: 56.88' LT

STA: 3687+66.04
OFF: 58.87' LT

STA: 3687+95.75
OFF: 60.83' LT

STA: 3687+98.50
OFF: 58.77' LT

STA: 3688+65.58
OFF: 52.49' LT

STA: 3688+90.82
OFF: 52.51' LT

Watermain Removal

Protect Sign

Relocate Light Pole
STA: 3687+91.44
OFF: 53.08' RT

STA: 3687+68.15
OFF: 55.82' RT

STA: 3687+70.00
OFF: 56.05' RT

STA: 3687+90.07
OFF: 53.65' RT

STA: 3689+93.36
OFF: 124.76' RT

STA: 3690+24.53
OFF: 124.78' RT

Abandon Pipe

Protect Sign

STA: 3693+49.60
OFF: 25.55' LT

STA: 3693+49.63
OFF: 2.20' RT

Remove Pipe

Relocate Light Pole

Protect Sign

Relocate Light Pole

STA: 3695+75.92
OFF: 15.63' LT

STA: 3695+75.84
OFF: 12.63' LT

STA: 3695+75.37
OFF: 13.62' RT

STA: 3695+75.32
OFF: 16.10' RT

LEGEND

X	Tree Removal
	Tree Removal
	Pavement Removal
	Fence Removal
	Storm Removal
	Storm Plug and Abandon
	Guardrail Removal
	Water Main Removal
W	Water Main Plug and Abandon

N

0 50
FEET

(1) Refer to Tied Project IM-080-3(275)125--13-77
For Deposition of Existing Sign.

Removal Plan
111th Street

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER F.5

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V2

Survey Information

POLK COUNTY
IM-080-4(69)125—13-77
I-35/80 & US HWY 6/HICKMAN ROAD INTERCHANGE
PIN 13770804069
SAP#04129

General Information

Measurement units for this survey are US survey feet. This survey is Preliminary Engineering Survey for the proposed Hickman Interchange project. This project is a Partial DTM survey. Traditional survey was performed within the project limits, with the exception of interstate pavement. For efficiency and safety, UAS was utilized to collect photo generated point cloud data on the interstate. The point cloud data was used to generate 3D line in the SUR file.

Vertical Control

Vertical datum for this survey is relative to NAVD88 Geoid 12b. Vertical datum originated from Hickman Road and 128th intersection, NHSX-006-4(189)—77, SAP 07011. Vertical positions originated from City of Urbandale published city benchmark report. BM #55 was used as the primary vertical control and is an IHC brass marker located at NE corner of northbound I-35 bridge over U.S. Highway 6.
This survey observed three City of Urbandale Benchmark Monuments with published NAVD88 elevations:

City of Urbandale Benchmark #55 has a published Elev. of 929.83
Survey Elev. = 929.83

City of Urbandale Benchmark #45 has a published Elev. of 908.05
IR-35-2(204)73--12-77 published Elev. of 907.82
Survey Elev. = 908.05

BM #38B Project STP-6-49119)—2C-77 published Elev. of 889.17 (271.021m)
Survey Elev.= 889.46

City of Urbandale Benchmark #57 has a published Elev. of 899.61
Survey Elev. = 899.61

IDOT performed a 2018 survey of the SB University exit ramp, Project IMN-080-3(235)124—OE-77, SAP 0412.8. A difference of 0.07' was found. Vertical difference between this current survey and the SB University exit ramp project are shown below.

Control Point	Published Elevation	Surveyed Elevation
FENO1	915.08	915.02
FENO2	895.27	895.21
G032	937.70	937.63

Horizontal Control

The project coordinate system is the Iowa Regional Coordinate System, Zone 8. Horizontal datum is NAD83 (2011) for Epoch 2010.00. The projection parameters for Zone 8 of the IaRCS is defined below:

Traverse Mercator Projection North American Datum of 1983
Origin Lat: 40°15'00"N
Origin Central Meridian: 093°43'00"W
Central Meridian Scale: 1.000033
False Northing: 7,000,000
False Easting: 18,500,000

Coordinates were determined by averaging a minimum of three IaRTN observations with appropriate time spans between. The horizontal standard deviation of these observations was less than 0.05' at 95% confidence level.

Alignment Information

The horizontal alignments for I-35 was a retrace of as-built pacing plans for project IR-35-2(204)73—12-77. Stationing was held at POT Station 419+51.50 and ran ahead and back without equation.

P.C. 363+05.61 (plan) = P.C. 363+00.68 (this survey)

Plan Equation
P.O.T. 388+16.72 (plan back) = P.O.T. 388+17.60 (plan ahead) = P.C. 388+21.85 (this survey)
P.O.T. 419+51.50 (plan) = P.O.T 419+51.50 (this survey)

P.C. 437+32.9 (plan) = P.C. 437+32.9 (this survey)

P.T. 443+32.9 (plan) = P.T. 443+32.89 (this survey)

P.C. 469+65.5 (plan) = P.C. 469+65.5 (this survey)

P.T. 475+65.5 (plan) = P.T. 475+64.91 (this survey)

P.C. 522+83.36 (plan) = P.C. 522+84.09 (this survey)

The horizontal alignments for U.S. Highway 6 and 128th Street was provided by Iowa DOT District 1 Office. Description of alignment as received described below.

The horizontal alignment for U.S. 6 (Hickman Road) is a retrace of as-built paving plan for project STP-6-4(119)--2C-77. Plan stationing is in metric and was converted to U.S. survey foot for this survey. Stationing was held at P.I. 186+92.513m (converted to station 613+27.02 in U.S. survey foot) and ran ahead without equation.

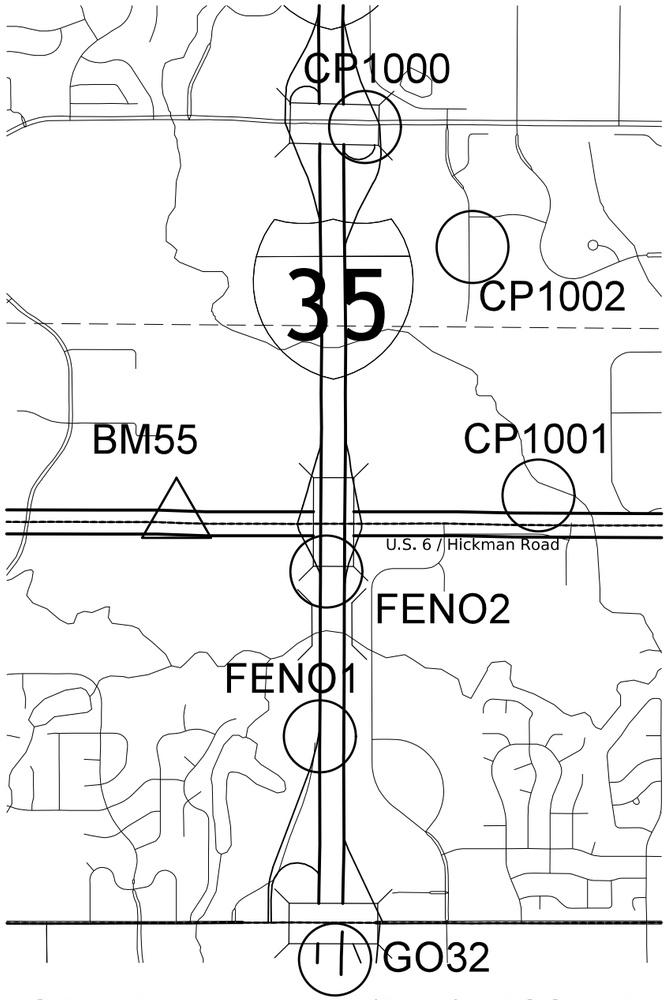
P.I. 186+92.513m (613+27.02 U.S. survey foot) = P.I. 186+92.513m (613+27.02 U.S. survey foot) (this survey)
Found "P-K" nail in conc. crossover

P.C. 198+53.721m (651+36.75 U.S. survey foot) = P.C. 198+53.757 (651+36.87 U.S. survey foot) (this survey)
Found 5/8" re-rod (flush)

Utilizing the provided alignment and the same as-built paving plans for project STP-6-4(119)--2C-77, Snyder & Associates extended alignment east from 651+36.75 to 673+00.

CONTROL POINT VICINITY MAP

This map is a guide to the vicinity of the primary project control points
Primary control is for use with RTK base stations and for RTN validation.
Future surveys will use primary project control to establish temporary control as needed for construction or other surveying applications.



HORIZ. DATUM: NAD83(2011) EPOCH 2010.00
VERT. DATUM: NAVD88
Ia. Regional Coordinate System Zone 8

Coordinate listing from next sheet will be used with IaRTN for monument recovery. No other reference ties are given.

HORIZONTAL AND VERTICAL PROJECT CONTROL COORDINATE LISTING

HORIZ. DATUM: NAD83(2011) EPOCH 2010.00

VERT. DATUM: NAVD88

Ia. Regional Coordinate System Zone 8

Point Name	Northing	Easting	Elevation	Feature Definition
CP1000	7502552.37	18483969.64	999.20	FENO-SET MONUMENT +/- 25' SOUTH OF DOUGLAS AVE, +/-25' OFF RAMP.
CP1001	7497688.97	18486259.21	876.70	FENO-SET MONUMENT NORTH SIDE NW 11TH ST, 8' NORTH OF BACK OF CURB, 40' SW OF LIGHT POLE.
CP1002	7500968.72	18485389.65	935.99	FENO-SET MONUMENT EAST SIDE OF 11TH ST, +/- 7' EAST OF 1ST HYDRANT SOUTH OF JOHNSTON SUPPLY.
FEN01	7494509.38	18483375.02	915.02	FENO-FOUND MONUMENT WEST SIDE OF I-35 AT START OF UNIVERSITY OFF RAMP.
FEN02	7496684.19	18483459.91	895.21	FENO-FOUND MOUNUMENT WEST SIDE I-35 AND EAST OF SB ON RAMP OF HICKMAN ROAD.
G032	7491564.87	18483573.86	937.63	FENO-FOUND MONUMENT +/- 5' EAST OF EAST SHOULDER NB I-35, 500' SOUTH OF UNIVERSITY AVE.
BM55	7497393.85	18481482.57	929.83	URBANDALE BM55//FOUND BRASS PLUG IN CONCRETE/NORTH SIDE OF HICKMAN ROAD

ALIGNMENT COORDINATES

Name	Location	Point on Tangent Station	Point on Tangent Y Northing	Point on Tangent X Easting	Begin Spiral Station	Begin Spiral Y Northing	Begin Spiral X Easting	Begin Curve Station	Begin Curve Y Northing	Begin Curve X Easting	Simple Curve PI or Master PI Station	Simple Curve PI or Master PI Y Northing	Simple Curve PI or Master PI X Easting	End Curve Station	End Curve Y Northing	End Curve X Easting	End Spiral Station	End Spiral Y Northing	End Spiral X Easting
1	ML080							363+00.68	7491680.39	18483512.41	366+70.68	7492050.15	18483525.82	370+40.61	7492420.15	18483527.29			
3	ML080							437+32.90	7499112.38	18483553.86	440+32.90	7499412.38	18483555.02	443+32.89	7499712.37	18483552.51			
5	ML080							469+65.00	7502344.38	18483530.26	472+64.96	7502644.33	18483527.84	475+64.91	7502944.28	18483526.17			
6	ML080	521+42.43	7507521.71	18483498.95															
1	SR006_(274)	613+27.02	7497336.77	18477210.04															
2	SR006_(274)							651+36.87	7497335.47	18481019.89	653+55.18	7497335.4	18481238.2	655+73.43	7497327	18481456.34			
4	SR006_(274)							657+09.06	7497321.79	18481591.87	659+05.58	7497314.23	18481788.25	661+02.06	7497313.41	18481984.76			
6	SR006_(274)							669+29.74	7497309.99	18482812.44	669+47.20	7497309.91	18482829.9	669+64.65	7497310.45	18482847.35			
8	SR006_(274)							680+71.65	7497344.51	18483953.82	681+26.43	7497346.19	18484008.57	681+81.10	7497341.89	18484063.18			
10	SR006_(274)							685+49.49	7497312.94	18484430.44	685+88.30	7497309.89	18484469.12	686+27.06	7497309.84	18484507.93			
12	SR006_(274)							697+16.64	7497308.65	18485597.5	697+28.00	7497308.63	18485608.86	697+39.36	7497308.36	18485620.22			
14	SR006_(274)							703+76.92	7497293.18	18486257.6	703+88.28	7497292.91	18486268.96	703+99.64	7497292.89	18486280.32			
15	SR006_(274)	733+84.07	7497289.61	18489264.75															
1	SR006_EB_(274)	2668+00.00	7497282.52	18482682.58															
2	SR006_EB_(274)							2668+33.88	7497282.38	18482716.47	2668+94.00	7497282.13	18482776.59	2669+53.59	7497268.1	18482835.04			
3	SR006_EB_(274)							2669+53.59	7497268.1	18482835.04	2671+13.47	7497230.76	18482990.51	2672+63.19	7497290.04	18483138.99			
5	SR006_EB_(274)							2674+56.73	7497361.8	18483318.73	2675+47.89	7497395.6	18483403.4	2676+37.19	7497398.4	18483494.52			
7	SR006_EB_(274)							2677+40.62	7497401.59	18483597.89	2678+31.78	7497404.39	18483689.01	2679+21.08	7497375.86	18483775.59			
9	SR006_EB_(274)							2681+23.45	7497312.53	18483967.79	2682+03.90	7497287.36	18484044.2	2682+83.00	7497287.27	18484124.65			
10	SR006_EB_(274)	2693+01.42	7497286.15	18485143.07															
1	SR006_WB_(274)	1668+00.00	7497340.52	18482682.82															
2	SR006_WB_(274)							1668+24.32	7497340.42	18482707.14	1668+93.92	7497340.13	18482776.74	1669+62.68	7497358.26	18482843.93			
3	SR006_WB_(274)							1669+62.68	7497358.26	18482843.93	1671+13.27	7497397.48	18482989.32	1672+55.31	7497350.35	18483132.35			
5	SR006_WB_(274)							1674+53.94	7497288.19	18483321	1675+45.10	7497259.66	18483407.58	1676+34.41	7497262.47	18483498.7			
7	SR006_WB_(274)							1677+37.83	7497265.65	18483602.07	1678+28.99	7497268.45	18483693.19	1679+18.30	7497302.25	18483777.86			
9	SR006_WB_(274)							1681+11.84	7497374.01	18483957.6	1683+15.94	7497449.69	18484147.15	1684+99.62	7497371.88	18484335.84			
10	SR006_WB_(274)							1684+99.62	7497371.88	18484335.84	1686+01.79	7497332.93	18484430.3	1687+01.37	7497332.82	18484532.48			
11	SR006_WB_(274)	1701+01.62	7497331.28	18485932.73															
1	SR111_(274)	3682+18.87	7496718.73	18484580.87															
2	SR111_(274)							3684+03.03	7496719.25	18484765.03	3686+57.04	7496719.96	18485019.04	3688+02.59	7496973.97	18485019.32			
4	SR111_(274)							3693+70.50	7497541.88	18485019.94	3698+08.38	7497979.76	18485020.42	3699+86.25	7497865.97	18485443.26			
6	SR111_(274)							3702+08.40	7497808.24	18485657.77	3703+21.68	7497778.8	18485767.17	3704+26.16	7497687.09	18485833.67			
8	SR111_(274)							3705+08.37	7497620.53	18485881.94	3707+26.44	7497443.99	18486009.95	3708+39.81	7497586.76	18486174.79			
10	SR111_(274)							3709+78.50	7497677.57	18486279.62	3715+26.57	7498036.39	18486693.9	3715+49.92	7497488.32	18486693.3			
11	SR111_(274)	3717+45.80	7497292.44	18486693.08															
1	RPA006	3419+10.24	7497320.42	18483171.31															
2	RPA006							3425+74.86	7497961.707	18483345.87	3427+06.08	7498088.322	18483380.34	3428+36.47	7498219.218	18483389.59			
4	RPA006							3437+32.25	7499112.771	18483452.72	3438+15.82	7499196.136	18483458.61	3438+99.40	7499279.521	18483464.22			
1	RPA006_1_(274)							13419+38.68	7497423.55	18483452.44	13419+43.68	7497423.02	18483447.46	13419+48.69	7497422.4	18483442.5			
2	RPA006_1_(274)							13419+48.69	7497422.4	18483442.5	13419+84.02	7497418	18483407.44	13420+16.61	7497436.6	18483377.4			
3	RPA006_1_(274)							13420+16.61	7497436.6	18483377.4	13421+54.67	7497509.27	18483260.02	13422+53.82	7497642.48	18483296.28			
4	RPA006_1_(274)	13422+63.82	7497652.13	18483298.91															
1	RPA006_2_(274)							23418+58.44	7497402.84	18483003.61	23418+63.45	7497402.57	18483008.61	23418+68.46	7497402.21	18483013.61			
2	RPA006_2_(274)							23418+68.46	7497402.21	18483013.61	23420+33.16	7497390.23	18483177.87	23421+44.02	7497549.15	18483221.13			
3	RPA006_2_(274)	23421+54.02	7497558.8	18483223.76															
1	RPB006	4403+50.27	7495729.15	18483630.43															
2	RPB006							4411+54.36	7496531.235	18483687.1	4412+85.58	7496662.131	18483696.35	4414+15.97	7496788.745	18483730.81			
3	RPB006	4419+89.64	7497342.28	18483881.49															

ALIGNMENT COORDINATES

Name	Location	Point on Tangent Station	Point on Tangent Y Northing	Point on Tangent X Easting	Begin Spiral Station	Begin Spiral Y Northing	Begin Spiral X Easting	Begin Curve Station	Begin Curve Y Northing	Begin Curve X Easting	Simple Curve PI or Master PI Station	Simple Curve PI or Master PI Y Northing	Simple Curve PI or Master PI X Easting	End Curve Station	End Curve Y Northing	End Curve X Easting	End Spiral Station	End Spiral Y Northing	End Spiral X Easting
1	RPB006_1_(274)	14416+31.90	7497006.54	18483752.79															
2	RPB006_1_(274)							14416+41.89	7497016.19	18483755.42	14417+84.02	7497153.33	18483792.75	14418+84.27	7497224.73	18483669.86			
3	RPB006_1_(274)							14418+84.27	7497224.73	18483669.86	14419+14.02	7497239.68	18483644.14	14419+42.10	7497238.14	18483614.43			
4	RPB006_1_(274)							14419+42.10	7497238.14	18483614.43	14419+47.10	7497237.88	18483609.44	14419+52.10	7497237.71	18483604.44			
1	RPB006_2_(274)	24417+53.22	7497111.01	18483830.97															
2	RPB006_2_(274)							24417+63.50	7497120.93	18483833.67	24419+36.01	7497287.38	18483878.98	24420+48.19	7497267	18484050.28			
3	RPB006_2_(274)	24420+58.19	7497265.82	18484060.21															
1	RPC006	5400+25.00	7495404.87	18483449.14															
2	RPC006							5405+25.00	7495904.862	18483451.12	5407+17.58	7496097.439	18483451.89	5409+08.97	7496286.623	18483415.89			
3	RPC006	5419+62.81	7497321.89	18483218.92															
1	RPC006_1_(274)	15415+58.92	7496927.36	18483306.2															
2	RPC006_1_(274)							15415+68.92	7496937.18	18483304.33	15416+19.17	7496986.55	18483294.94	15416+69.09	7497036.8	18483295.56			
3	RPC006_1_(274)							15416+69.09	7497036.8	18483295.56	15418+63.27	7497230.96	18483297.95	15419+77.35	7497234.3	18483492.11			
4	RPC006_1_(274)	15419+87.36	7497234.57	18483502.12															
1	RPC006_2_(274)	25415+88.39	7496951.83	18483277.11															
2	RPC006_2_(274)							25415+98.39	7496961.65	18483275.25	25416+59.74	7497021.92	18483263.78	25417+20.94	7497080.34	18483245.03			
3	RPC006_2_(274)							25417+20.94	7497080.34	18483245.03	25418+89.01	7497240.37	18483193.67	25420+00.48	7497217.33	18483027.19			
4	RPC006_2_(274)	25420+10.48	7497216.05	18483017.27															
1	RPD006	6419+44.05	7497342.75	18483896.62															
2	RPD006							6433+72.27	7498752.753	18483669.23	6435+36.51	7498914.891	18483643.08	6437+00.00	7499079.122	18483643.73			
3	RPD006	6437+32.91	7499112.03	18483643.86															
1	RPD006_1_(274)							16419+11.63	7497429.81	18483609.36	16419+16.63	7497429.85	18483614.36	16419+21.63	7497429.8	18483619.36			
2	RPD006_1_(274)							16419+21.63	7497429.8	18483619.36	16420+96.02	7497428.02	18483793.74	16422+08.47	7497600.53	18483819.25			
3	RPD006_1_(274)							16422+08.47	7497600.53	18483819.25	16422+85.75	7497676.99	18483830.56	16423+61.82	7497753.28	18483818.26			
4	RPD006_1_(274)	16423+71.82	7497763.16	18483816.66															
1	RPD006_2_(274)							26419+05.24	7497449.96	18484098.54	26419+10.25	7497449.54	18484093.55	26419+15.26	7497449.03	18484088.57			
2	RPD006_2_(274)							26419+15.26	7497449.03	18484088.57	26420+82.06	7497432.05	18483922.62	26421+93.32	7497592.25	18483876.13			
3	RPD006_2_(274)							26421+93.32	7497592.25	18483876.13	26422+54.67	7497651.17	18483859.03	26423+15.87	7497711.74	18483849.27			
4	RPD006_2_(274)	26423+25.87	7497721.61	18483847.67															
1	RPAUNIV	1365+26.61	7492050.16	18482846.24															
2	RPAUNIV							1368+26.61	7492350.14	18482849.69	1371+07.45	7492630.96	18482852.92	1373+62.41	7492836.15	18483044.67			
3	RPAUNIV							1373+62.41	7492836.15	18483044.67	1378+37.19	7493183.04	18483368.84	1382+74.99	7493656.63	18483402.3			
4	RPAUNIV	1388+74.72	7494254.88	18483444.57															
1	SRFRONTAGE_(274)	33689+59.03	7497180.46	18484969.55															
1	SRFRONTAGE_(274)	33691+58.80	7497180.24	18485169.31															
1	TRAIL_006_(274)	50050+00.00	7497390.59	18482183.36															
2	TRAIL_006_(274)							50050+99.92	7497390.18	18482283.28	50051+07.18	7497390.15	18482290.54	50051+14.42	7497391.12	18482297.74			
3	TRAIL_006_(274)							50051+14.42	7497391.12	18482297.74	50051+21.68	7497392.09	18482304.94	50051+28.92	7497392.06	18482312.2			
5	TRAIL_006_(274)	50054+48.35	7497390.73	18482631.63															
6	TRAIL_006_(274)							50055+38.51	7497384.63	18482721.58	50055+59.77	7497383.19	18482742.79	50055+80.85	7497386.6	18482763.78			
7	TRAIL_006_(274)							50055+80.85	7497386.6	18482763.78	50056+12.82	7497391.72	18482795.34	50056+44.69	7497401.07	18482825.91			
9	TRAIL_006_(274)							50057+85.67	7497442.27	18482960.73	50058+01.34	7497446.85	18482975.72	50058+17.00	7497450.48	18482990.96			
11	TRAIL_006_(274)							50061+77.91	7497534.13	18483342.04	50062+17.23	7497543.25	18483380.3	50062+44.55	7497582.57	18483380.45			
13	TRAIL_006_(274)							50062+92.14	7497630.16	18483380.64	50063+42.14	7497680.16	18483380.84	50063+70.68	7497679.96	18483430.84			
15	TRAIL_006_(274)							50066+05.34	7497679.03	18483665.5	50066+55.34	7497678.83	18483715.5	50066+83.88	7497628.83	18483715.3			
17	TRAIL_006_(274)							50066+85.85	7497626.86	18483715.3	50067+35.85	7497576.86	18483715.1	50067+64.38	7497576.67	18483765.1			
19	TRAIL_006_(274)							50069+21.55	7497576.04	18483922.26	50069+85.65	7497575.79	18483986.36	50070+42.70	7497529.29	18484030.48			

ALIGNMENT COORDINATES

Name	Location	Point on Tangent Station	Point on Tangent Y Northing	Point on Tangent X Easting	Begin Spiral Station	Begin Spiral Y Northing	Begin Spiral X Easting	Begin Curve Station	Begin Curve Y Northing	Begin Curve X Easting	Simple Curve PI or Master PI Station	Simple Curve PI or Master PI Y Northing	Simple Curve PI or Master PI X Easting	End Curve Station	End Curve Y Northing	End Curve X Easting	End Spiral Station	End Spiral Y Northing	End Spiral X Easting
20	TRAIL_006_(274)							50070+42.70	7497529.29	18484030.48	50071+17.32	7497475.16	18484081.84	50071+83.76	7497474.75	18484156.45			
21	TRAIL_006_(274)							50071+83.76	7497474.75	18484156.45	50072+68.44	7497474.27	18484241.13	50073+51.16	7497443.05	18484319.84			
23	TRAIL_006_(274)							50074+32.63	7497413.02	18484395.57	50075+09.06	7497384.84	18484466.61	50075+83.67	7497384.84	18484543.04			
24	TRAIL_006_(274)	50081+19.62	7497384.84	18485079															
1	TRAIL_080_(274)	60000+00.00	7496001.17	18483411.55															
2	TRAIL_080_(274)							60001+07.11	7496108.26	18483409.45	60001+43.70	7496144.84	18483408.74	60001+75.74	7496168.22	18483380.6			
3	TRAIL_080_(274)							60001+75.74	7496168.22	18483380.6	60002+22.90	7496198.36	18483344.33	60002+63.88	7496245.53	18483344.51			
5	TRAIL_080_(274)							60004+06.66	7496388.31	18483345.08	60004+53.18	7496434.82	18483345.27	60004+93.74	7496464.93	18483309.81			
6	TRAIL_080_(274)							60004+93.74	7496464.93	18483309.81	60005+20.88	7496482.46	18483289.08	60005+46.75	7496508.06	18483280.06			
8	TRAIL_080_(274)							60010+35.89	7496969.41	18483117.56	60010+68.47	7497000.15	18483106.73	60010+98.89	7497018.61	18483079.88			
10	TRAIL_080_(274)							60011+46.16	7497045.38	18483040.92	60011+75.57	7497062.04	18483016.68	60011+99.33	7497091.32	18483019.46			
12	TRAIL_080_(274)							60012+48.15	7497139.92	18483024.08	60013+66.34	7497257.59	18483035.09	60013+65.21	7497183.55	18482942.97			
13	TRAIL_080_(274)							60013+65.21	7497183.55	18482942.97	60013+71.77	7497179.44	18482937.86	60013+78.24	7497176.96	18482931.78			
14	TRAIL_080_(274)							60013+78.24	7497176.96	18482931.78	60014+16.53	7497162.49	18482896.33	60014+53.22	7497166.79	18482858.28			
16	TRAIL_080_(274)							60015+53.22	7497178.01	18482758.91	60015+80.14	7497181.03	18482732.16	60015+97.10	7497207.94	18482732.27			
18	TRAIL_080_(274)							60017+90.48	7497401.32	18482733.08	60018+36.56	7497447.4	18482733.27	60018+64.94	7497450.97	18482779.2			
20	TRAIL_080_(274)							60019+35.79	7497456.45	18482849.84	60019+59.85	7497458.31	18482873.83	60019+76.34	7497435.31	18482880.86			
21	TRAIL_080_(274)	60020+98.03	7497318.93	18482916.42															
1	WM_CLIVE	1+00.00	7496787.92	18484996.55															
2	WM_CLIVE	1+15.00	7496802.91	18484996.97															
3	WM_CLIVE	1+22.71	7496810.62	18484996.83															
4	WM_CLIVE	1+65.11	7496833.19	18485032.73															
5	WM_CLIVE							2+06.09	7496873.14	18485041.83	2+62.05	7496927.71	18485054.27	3+17.56	7496983.68	18485054.33			
6	WM_CLIVE	5+06.89	7497173.01	18485054.54															

SPIRAL OR CIRCULAR CURVE DATA

Line No.	Name	Location	SCS	S	Ls	Ts	Es	Xc	Yc	L.T.	S.T.	C	T	L	R	E	Remarks
1.0	C1	ML080										1.85	370	739.93	22916.27	2.99	
2.0	C2	ML080										0.7	300	599.99	49109.96	0.92	
3.0	C3	ML080										0.14	299.96	599.91	242663.86	0.19	
4.0																	
5.0	C1	SR006_(274)										2.185	218.306	436.56	11450.11	2.081	
6.0	C2	SR006_(274)										1.967	196.519	393	11450.11	1.686	
7.0	C3	SR006_(274)										2.001	17.46	34.916	1000	0.152	
8.0	C4	SR006_(274)										6.271	54.777	109.444	1000	1.499	
9.0	C5	SR006_(274)										4.445	38.805	77.571	1000	0.753	
10.0	C6	SR006_(274)										1.302	11.36	22.72	1000	0.065	
11.0	C7	SR006_(274)										1.302	11.36	22.72	1000	0.065	
12.0																	
13.0	C1	SR006_EB_(274)										13.266	60.121	119.704	517	3.484	
14.0	C2	SR006_EB_(274)										35.267	159.882	309.605	503	24.799	
15.0	C3	SR006_EB_(274)										20	91.161	180.467	517	7.976	
16.0	C4	SR006_EB_(274)										20	91.161	180.467	517	7.976	
17.0	C5	SR006_EB_(274)										18.174	80.45	159.548	503	6.393	
18.0																	
19.0	C1	SR006_WB_(274)										15.334	69.596	138.361	517	4.663	
20.0	C2	SR006_WB_(274)										33.333	150.587	292.631	503	22.058	
21.0	C3	SR006_WB_(274)										20	91.161	180.467	517	7.976	
22.0	C4	SR006_WB_(274)										20	91.161	180.467	517	7.976	
23.0	C5	SR006_WB_(274)										44.172	204.103	387.784	503	39.832	
24.0	C6	SR006_WB_(274)										22.346	102.174	201.752	517.305	9.994	
25.0																	
26.0	C1	SR111_(274)										89.776	254.006	399.557	255	104.922	
27.0	C2	SR111_(274)										104.999	437.879	615.749	336	215.937	
28.0	C3	SR111_(274)										38.99	113.285	217.759	320	19.461	
29.0	C4	SR111_(274)										94.949	218.068	331.436	200	95.895	
30.0	C5	SR111_(274)										130.96	548.072	571.422	250	352.398	
31.0																	
32.0	C1	RPA006										11.19	131.22	261.61	1340	6.41	
33.0	C2	RPA006										0.2	83.57	167.15	49020.84	0.07	
34.0																	
35.0	C1	RPA006_1_(274)										1.046	5.004	10.008	548	0.023	
36.0	C2	RPA006_1_(274)										38.917	35.331	67.923	100	6.058	
37.0	C3	RPA006_1_(274)										73.464	138.055	237.204	185	45.834	
38.0																	
39.0	C1	RPA006_2_(274)										1.075	5.008	10.015	534	0.023	
40.0	C2	RPA006_2_(274)										78.943	164.7	275.563	200	59.087	
41.0																	
42.0	C1	RPB006										11.186	131.222	261.61	1340	6.41	
43.0																	
44.0	C1	RPB006_1_(274)										75.067	142.126	242.379	185	48.291	
45.0	C3	RPB006_1_(274)										33.134	29.748	57.829	100	4.331	
46.0	C2	RPB006_1_(274)										1.051	5	10	545.001	0.023	
47.0																	
48.0	C1	RPB006_2_(274)										81.558	172.508	284.691	200	64.119	
49.0																	
50.0	C1	RPC006										11	192.578	383.972	2000	9.25	
51.0																	
52.0	C1	RPC006_1_(274)										11.478	50.252	100.167	500	2.519	
53.0	C2	RPC006_1_(274)										88.309	194.184	308.258	200	78.76	
54.0																	
55.0	C1	RPC006_2_(274)										7.022	61.352	122.551	1000	1.88	
56.0	C2	RPC006_2_(274)										80.083	168.067	279.542	200	61.24	
57.0																	

SPIRAL OR CIRCULAR CURVE DATA

Line No.	Name	Location	SCS	S	Ls	Ts	Es	Xc	Yc	L.T.	S.T.	C	T	L	R	E	Remarks
58.0	C1	RPD006										9.389	164.233	327.73	2000	6.732	
59.0																	
60.0	C1	RPD006_1_(274)										1.046	5	10	548	0.023	
61.0	C2	RPD006_1_(274)										82.174	174.39	286.84	200	65.352	
62.0	C3	RPD006_1_(274)										17.573	77.283	153.353	500	5.937	
63.0																	
64.0	C1	RPD006_2_(274)										1.047	5.007	10.015	548	0.023	
65.0	C2	RPD006_2_(274)										79.659	166.809	278.063	200	60.432	
66.0	C3	RPD006_2_(274)										7.022	61.352	122.551	1000	1.88	
67.0																	
68.0	C1	RPAUNIV										42.4	280.84	535.8	724	52.56	
69.0	C2	RPAUNIV										39.02	474.78	912.57	1340	81.62	
70.0																	
71.0	C1	TRAIL_006_(274)										7.915	7.264	14.504	105	0.251	
72.0	C2	TRAIL_006_(274)										7.915	7.264	14.504	105	0.251	
73.0	C3	TRAIL_006_(274)										13.111	21.26	42.335	185	1.218	
74.0	C13	TRAIL_006_(274)										7.766	31.971	63.844	471	1.084	
75.0	C4	TRAIL_006_(274)										3.59	15.67	31.329	500	0.245	
76.0	C5	TRAIL_006_(274)										76.37	39.325	66.646	50	13.612	
77.0	C6	TRAIL_006_(274)										90	50	78.54	50	20.711	
78.0	C7	TRAIL_006_(274)										90	50	78.54	50	20.711	
79.0	C8	TRAIL_006_(274)										90	50	78.54	50	20.711	
80.0	C9	TRAIL_006_(274)										46.276	64.099	121.151	150	13.122	
81.0	C10	TRAIL_006_(274)										46.184	74.615	141.061	175	15.243	
82.0	C11	TRAIL_006_(274)										21.314	84.68	167.402	450	7.898	
83.0	C12	TRAIL_006_(274)										21.634	76.428	151.035	400	7.236	
84.0																	
85.0	C1	TRAIL_080_(274)										49.149	36.584	68.626	80	7.968	
86.0	C2	TRAIL_080_(274)										50.5	47.163	88.139	100	10.564	
87.0	C3	TRAIL_080_(274)										49.891	46.515	87.077	100	10.289	
88.0	C4	TRAIL_080_(274)										30.375	27.146	53.014	100	3.619	
89.0	C5	TRAIL_080_(274)										36.099	32.587	63.004	100	5.176	
90.0	C6	TRAIL_080_(274)										60.928	29.41	53.17	50	8.008	
91.0	C7	TRAIL_080_(274)										134.139	118.19	117.058	50	78.331	
92.0	C8	TRAIL_080_(274)										16.59	6.561	13.029	45	0.476	
93.0	C12	TRAIL_080_(274)										28.642	38.293	74.984	150	4.811	
94.0	C9	TRAIL_080_(274)										83.796	26.915	43.875	30	10.304	
95.0	C10	TRAIL_080_(274)										85.322	46.076	74.458	50	17.993	
96.0	C11	TRAIL_080_(274)										77.449	24.056	40.552	30	8.454	
97.0																	
98.0	C1	WM_CLIVE										12.77	55.97	111.47	500	3.12	

HERITAGE PARK OWNERS ASSOCIATION INC

SW¼ SE¼ SEC. 29-79N-25W

TEMPORARY EASEMENT TO SHAPE

(13) HAROLD DEAN LLC

TEMPORARY EASEMENT TO SHAPE

PERMANENT EASEMENT FOR UNDERGROUND RETAINING WALL ANCHORS

(15) CRM PROPERTIES I LLC, CRM PROPERTIES II LLC, GB RE INVESTMENT HB1 LLC, GB RE INVESTMENT HB2 LLC, GB RE INVESTMENT LI LLC, GB RE INVESTMENT LLC

(17) S & S HERITAGE PARK LLC

TEMPORARY EASEMENT TO SHAPE

SE¼ SE¼ SEC. 29-79N-25W

MISTER CAR WASH

KGURBAN LLC

665+39±Lot Line ℄ 144'

664+63 ℄ 150'

664+46 ℄ 121'±℄

667+22±℄ 172'

668+82 ℄ 160'± Utility R/W

668+68 ℄ 156'±℄

668+04 ℄ 159'

669+96 ℄ 164'±℄

669+90 ℄ 168'± Utility R/W

669+85 ℄ 172'

670+14±℄ 182'

670+40 ℄ 198'

670+77 ℄ 187'

670+90 ℄ 168'±℄

Water Main Easement

+26.04 Exist. Type "A" Ent. (Joint) U.A.C.

DMWW Water Main Easement

Anticipated Underground Retaining Wall Anchors

Hickman Road WB

Hickman Road WB

Sta. 668+20.00 Begin Paving

665

670

Hickman Road EB

Hickman Road EB

663+44±℄ 122'

Relocate Water Main

662+32±℄ 212'

661+65 ℄ 260'

+26.04 Prop. Type "A" Ent.

664+47 ℄ 146'

667+68 ℄ 194'

669+78 ℄ 231'

617+20± ℄ 257'±

671+41± ℄ 283'±

672+14 ℄ 273'±Prop.R/W

664+32 ℄ 143'±Prop.R/W

(5) LOVES TRAVEL STOPS & COUNTRY STORES INC.

TEMPORARY EASEMENT TO SHAPE

661+65 ℄ 305'

662+33 ℄ 305'

663+32.64 ℄ 283'±℄

664+32 ℄ 279'

NW¼ NE¼ SEC. 32-79N-25W

NE¼ NE¼ SEC. 32-79N-25W

WALNUT TWP. T-79N R-25W SEC. 32 City of Clive

To Be Acquired by Others

TRAIL RIGHT OF WAY ACQUIRED BY OTHERS

(7) MENARD INC

TEMPORARY EASEMENT TO CONSTRUCT ENTRANCE & SHAPE

Right of Way Design Information

THIS SHEET INCLUDED FOR INFORMATION ONLY

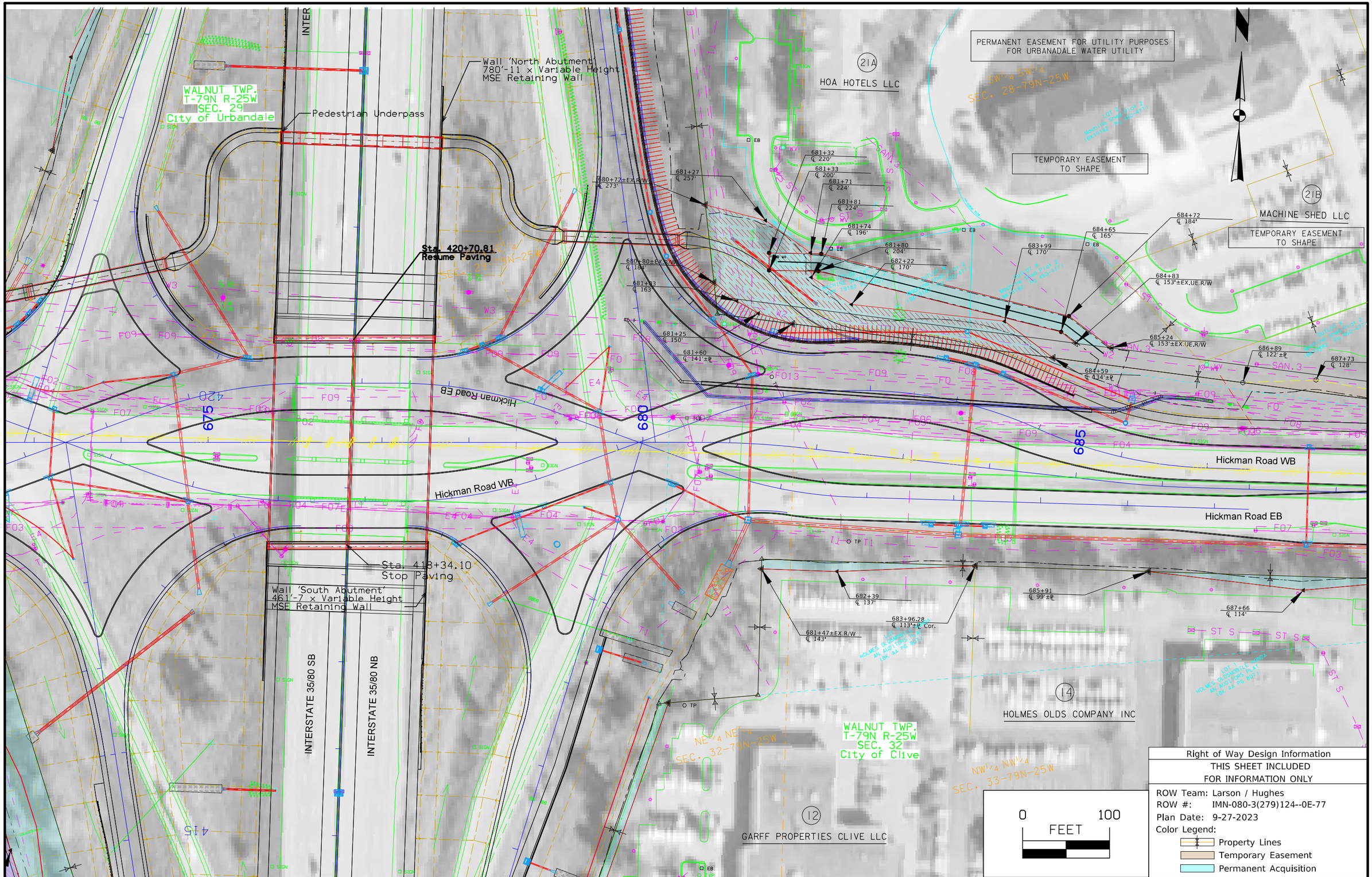
ROW Team: Larson / Hughes
ROW #: IMN-080-3(279)124-0E-77
Plan Date: 9-6-2023
Color Legend:
- Property Lines
- Temporary Easement
- Permanent Acquisition

0 100 FEET

FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER H.1

12:50:40 PM 9/6/2023 CHUGHES pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\7708006015\ROW\ROW_77080279.dgn

V2



Right of Way Design Information

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ROW Team: Larson / Hughes
ROW #: IMN-080-3(279)124--0E-77
Plan Date: 9-27-2023
Color Legend:
- Property Lines
- Temporary Easement
- Permanent Acquisition

FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSICIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER H.2

9:30:14 AM 9/27/2023 CHUGHES pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\7708006015\ROW\ROW_77080279.dgn

V2

Sta 1695+72.07
End Widening

Sta 1694+25.00
End Paving

TEMPORARY EASEMENT TO SHAPE AND CONSTRUCT PERMANENT & TEMPORARY ENTRANCES

21B
MACHINE SHED LLC

TEMPORARY EASEMENT TO SHAPE, CONSTRUCT ENTRANCES (PERMANENT & TEMPORARY), AND CONSTRUCTION ACCESS

21
LIVING HISTORY FARMS FOUNDATION

PT 3699+86.69

PI 3703+22.39

PC 3703+09.10

Do Not Disturb Sign

3705

PC 3705+09.08

PT 3708+40.51

PT 3704+26.86

NW 111th Street

+83.45 Prop. Type "B" Ent.

Do Not Disturb Sign

Protect Sign and Landscaping

690+93±℄ 176'

690+38 ℄ 172'

688+48±℄ 117'

690+35 ℄ 124'

687+73 ℄ 128'

PC 3693+70.57

Do Not Disturb Sign

SW¼ SW¼ SEC. 28-79N-25W

SE¼ SW¼ SEC. 28-79N-25W

Urbandale Water Main Esmt.

695+63 ℄ 92'

697+17 ℄ 95'

Sta. 697+15.00
End Paving

691+95 ℄ 94'

694+01 ℄ 96'

697+35 ℄ 81'±℄

NW 111th Street

Hickman Road WB

Hickman Road EB

690

695

700

Protect Sign

688+96.03 ℄ 98'±℄ Cor.

687+66 ℄ 114'

1690

16
FORTRESS BANK

+78.45 Prop. Type "B" Ent.

+84.26 Prop. Type "B" Ent.

TEMPORARY EASEMENT TO CONSTRUCT ENTRANCES

NW¼ NW¼ SEC. 33-79N-25W

1685

TEMPORARY EASEMENT TO CONSTRUCT ENTRANCE & SHAPE

+09.24 Prop. Type "B" Ent.

RAVENWOOD HIGHLANDR II LLC

18
MD6 CLIVE, LLC.

+81.13 Prop. Type "B" Ent. (Joint)

20
CCT INVESTMENTS LLC

TEMPORARY EASEMENT TO CONSTRUCT ENTRANCE & SHAPE

NE¼ NW¼ SEC. 33-79N-25W

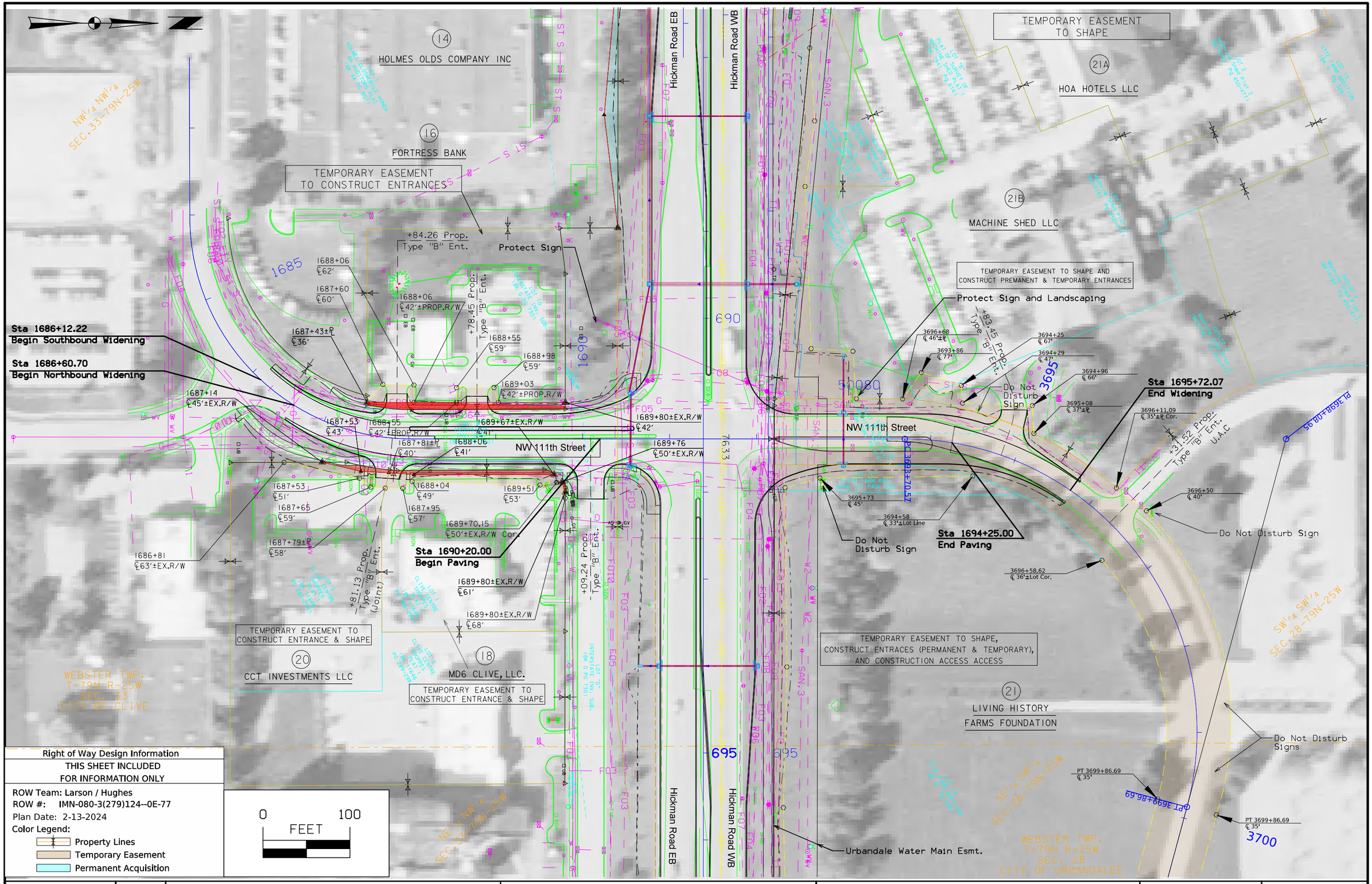
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FEET

Right of Way Design Information
THIS SHEET INCLUDED FOR INFORMATION ONLY
ROW Team: Larson / Hughes
ROW #: IMN-080-3(279)124–0E-77
Plan Date: 2-13-2024
Color Legend:
Property Lines
Temporary Easement
Permanent Acquisition

FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER H.3

7:25:54 AM 2/13/2024 CHUGHES pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\7708006015\ROW\ROW_77080279.dgn

V2



FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER HE.1

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V2

Do Not Disturb Signs

3700

PT 3699+86.69 ℄ 35'

Do Not Disturb Sign

PC 3702+09.10 ℄ 35'

PT 3699+86.69 ℄ 35'

PC 3702+09.10 ℄ 35'

PT 3703+77.19

PC 3702+09.10

LOT 14 STATE FARM ADD. BOOK "N" PAGE 309

TEMPORARY EASEMENT TO SHAPE, CONSTRUCT ENTRACES (PERMANENT & TEMPORARY), AND CONSTRUCTION ACCESS ACCESS

21

LIVING HISTORY FARMS FOUNDATION

PI 3715+26.48

SW¼ SW¼ SEC. 28-79N-25W

SE¼ SW¼ SEC. 28-79N-25W

Do Not Disturb Signs

PT 3704+26.86 ℄ 35'

PC 3705+09.08 ℄ 35'

3705

3710

PC 3709+79.20 ℄ 35'

PT 3704+26.86 ℄ 35'

PT 3706+26.86

PC 3705+09.08 ℄ 35'

PT 3708+40.51 ℄ 35'

PT 3708+40.51

PC 3709+79.20

PC 3709+79.20 ℄ 35'

NW 111th Street

3714+69±R ℄ 35'

3715

LOT 12 STATE FARM ADD. BOOK "N" PAGE 309

LOT "D" STATE FARM ADD. BOOK "N" PAGE 309

Sta. 697+15.00 End Paving

Urbandale Water Main Esmt.

PT 3715+50.35 ℄ 35'

PT 3715+50.35

Do Not Disturb Sign

3716+48±EX.R/W ℄ 35'

PI 3707+27.14

705

695

700

Hickman Road WB

Hickman Road EB

POE 3717+29.10

NW¼ NW¼ SEC. 33-79N-25W

NE¼ NW¼ SEC. 33-79N-25W

0 100 FEET

Right of Way Design Information

THIS SHEET INCLUDED FOR INFORMATION ONLY

ROW Team: Larson / Hughes

ROW #: IMN-080-3(279)124--0E-77

Plan Date: 2-13-2024

Color Legend:

- Property Lines
- Temporary Easement
- Permanent Acquisition

FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER HE.2

7:26:09 AM 2/13/2024 CHUGHES pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\7708006015\ROW\ROW_77080279.dgn

V2

TRAFFIC CONTROL PLAN

In order to minimize vehicle traffic congestion, the Contractor shall comply with the following restrictions, for the duration of construction.

Traffic control on this project shall be in accordance with the standard road plans and the specific layouts shown in the plans. For additional complementary information, refer to Part 6 of the Manual on Uniform Traffic Control Devices (MUTCD) and the current standard specifications and supplemental specifications.

The Contractor shall coordinate traffic control with other projects in the area.

The Contractor shall be responsible for furnishing, installing, maintaining, and removing the signage for the temporary detours.

The Engineer may require modifications to the pavement marking details shown. Conflicting permanent edge lines, centerlines, or lane lines shall be removed. Where applicable, permanent edge lines, centerlines, and lane lines shall be placed before the roadway is returned to normal traffic. The current Standard Specifications and Supplemental Specifications shall apply.

The Contractor shall maintain clean pavement in and out of the work area at all times.

The Contractor to clean median and outside shoulders prior to shifting traffic. This is considered incidental to the project.

All signs to be in place longer than three days must be post mounted.

The Contractor will be responsible for securing a safe storage area for equipment and materials to be used on the project.

Through traffic on I-80/35 on shall be maintained at all times. No closures on interchange ramps will be allowed. Through traffic on Hwy. 6 (Hickman Road) shall be maintained at all times except for Hickman Road construction during Stages 2 & 3.

Shoulder and/or lane closures (per Standard Road Plans TC-402, TC-418, TC-421, and TC-451) will be necessary for construction.

Night work will be required for Hickman Road median work detailed in Stage 1A. Temporary road lane closure of Hickman Road will be required and traffic shall be shifted during temporary lane closure. Temporary floodlights shall be used at all times during work. Place PDMS notifying of temporary closure two weeks prior to work.

I-80/35:
The Contractor shall maintain all lanes of traffic in both directions at all times.

Interchange Ramps:
The Contractor shall maintain through traffic on interchange ramps at all times.

U.S. Hwy. 6 (Hickman Road):
The Contractor shall maintain two lanes of traffic in both directions at all times, except as allowed for median work during Stage 1A and Hickman Closure during Stages 2 & 3.

Coordinate with properties on north side of Hickman near NW 111th Street intersection prior to utilizing temporary signals at NW 108th Street.

STAGING NOTES

Highway 6 is a high volume roadway, construction activity in the area will disrupt traffic. Therefore, it is advisable to adopt a construction sequence that directs activities in an orderly manner and minimizes disruptions to traffic as mush as practical. A SW Systems Interchange project is anticipated to begin in 2028 that includes conflicting traffic control. Staging has been designed to complete construction within the allotted time and ahead of the closure of the NW I-35 ramp to EB I-235 planned with the SW Systems project. It is recognized that as the various activities related to construction progress, certain situations may arise which will preclude adhering to the original construction sequence or which, in the opinion of the Contractor, should result in more efficient staging operations. Should the Contractor desire to deviate form the original plan, they shall submit a written alternative plan to the Resident Construction Engineer for approval.

Stage 1A - Hickman Road Temporary Pavement

Stage 1A - Traffic
Hickman Road
- Install traffic control on Hickman Road per these plans.

Stage 1A - Construction
Hickman Road
- Night work is required for this stage.
- Remove existing median earth and pavement, grade and pave temporary median pavement.
- Grade and pave permanent inside median shoulder pavement.

Stage 1B - Hickman Road Storm Sewer and NW 111th Street Widening

Stage 1B - Traffic
Hickman Road
- Remove traffic control from previous stage, install traffic control per these plans.

NW 111th Street
- Install traffic control per these plans.

Stage 1B - Construction
Hickman Road
- Remove or abandon existing storm sewer and culverts, install storm sewer under existing pavement via trenchless methods.
- Grade roadway embankment to facilitate storm sewer installation.
- Install new storm sewer.
- Install temporary traffic signal at NW 108th Street.

NW 111th Street
- Remove exterior northbound pavement, Frontage Road pavement, and northbound sidewalk.
- Install watermain via trenchless and trenched methods to minimize conflict with existing utilities.
- Install segmental block retaining wall.
- Grade and pave exterior northbound NW 111th Street pavement, grade and pave Frontage Road pavement.
- Grade and pave northbound sidewalk and install pedestrian hand rail.

Stage 2 - Hickman Road Exterior Construction

Stage 2 - Traffic
Hickman Road
- Remove traffic control from previous stage, install traffic control per these plans to close Hickman Road to through traffic a the I-80/35 bridges.
- West of I-80/35 interchange, shift traffic to outside lanes.
- East of I-80-35 interchange, shift traffic to interior of Hickman Road.
- 11-foot lane width to be used for both eastbound and westbound lanes.

NW 111th Street
- Remove traffic control from previous stage and install traffic control per these plans.

Stage 2 - Construction
Hickman Road
- Remove existing pavement.
- Remove or abandon existing storm sewer and culverts, install new storm sewer.

108_26A
8/15/22

STAGING NOTES

- Grade and pave eastbound, westbound, and ramp pavement.

NW 111th Street
- Remove exterior southbound pavement.
- Install fire hydrant on west side of roadway.
- Grade and pave exterior southbound pavement and sidewalk pavement.

Stage 3 - Hickman Road Interior Construction

Stage 3 - Traffic
Hickman Road and NW 111th Street
- Remove traffic control from previous stage, install traffic control per these plans.

Stage 3 - Construction
Hickman Road
- Remove existing pavement.
- Remove or abandon existing storm sewer, culverts, and previously installed temporary drainage structures. Install new storm sewer.
- Install traffic signals at west ramp intersection, east ramp intersection and NW 111th Street intersection.
- Grade and pave eastbound, westbound, and ramp pavement.

NW 111th Street
- Remove exterior southbound pavement.
- Grade and pave exterior southbound pavement and sidewalk pavement.

Stage 4A - Hickman Road Median, Ramp Infield, and Trail

Stage 4A - Traffic
Hickman Road and NW 111th Street
- Remove traffic control from previous stage, install traffic control per these plans to re-open Hickman Road to through traffic.
- Remove temporary traffic signals at NW 108th Street.

Stage 4A - Construction
- Grade and pave maintenance pads, splash guards, and trail pavement.
- Install pedestrian tunnel gateway entry features.
- Grade landscape medians.
- Install bio-retention cells, landscape edger, plants, shrubs, and trees.

Stage 4B - Hickman Road Median and Ramp Infield Construction

Stage 4B - Traffic
- Remove traffic control from previous stage, install traffic control per these plans.

Stage 4B - Construction
- Install architectural monuments.
- Grade and pave maintenance pads and splash guards.
- Grade landscape medians.
- Install bio-retention cells, landscape edger, plants, shrubs, and trees.

Stage 5 - Interstate 80/35 Regenerative Conveyance

Stage 5 - Traffic
- Install traffic control per these plans.
- This stage can be performed concurrently with previous stages

Stage 5 - Construction
- Install regenerative conveyance features within existing I-80/35 ditches.

511 TRAVEL RESTRICTIONS

Line No.	Route	Direction	County	Location Description	Feature Crossed	Object Type	Maint. Bridge No. or Structure ID or FHWA No.	Type of Restriction	Existing Measurement	Construction Measurement	Construction Measurement as Signed	Projected As Built Measurement	Remarks
1.0	U.S. Hwy. 6	EB	Polk	At Interstate 80/35 Bridge over U.S. Hwy 6	Interstate 80/35	Bridge	041311	Vertical	15.917	14.6	14.25		

COORDINATED OPERATIONS

Other work in progress during the same period of time will include the construction of the projects listed. Coordinate operations with those of other contractors working within the same area.

Project	Type of Work
IM-080-3(269)124--13-77	PCC Pavement - Grade and New
IM-080-3(275)125--13-77	Traffic Signing
IM-080-3(276)125--13-77	Lighting
IM-080-3(277)125--13-77	Traffic Signals
IM-080-3(342)125--13-77	Bridge Replacement - Steel Girder
IMN-080-3(344)125-0E-77	RCB Culvert New - Single Box

SAFETY CLOSURES

Station	Road Closure Qty.	Hazard Closure Qty.	Remarks
3687+80.00	1		STG 1 - 111TH ST
3690+08.99	1		STG 1 - 111TH ST
13421+48.00	1		STG 2 - RMP A_1
14417+37.00	1		STG 2 - RMP B_1
15416+93.00	1		STG 2 - RMP C_1
679+38.00	1		STG 2 - HICKMAN
3688+78.00	1		STG 2 - 111TH ST
3694+80.00	1		STG 2 - 111TH ST
3695+85.00	1		STG 2 - 111TH ST
3687+81.00	1		STG 3 - 111TH ST
3690+24.00	1		STG 3 - 111TH ST
3690+71.00	1		STG 3 - 111TH ST

Division 1
SAFETY CLOSURES: 12 EA

PEDESTRIAN PATH CLOSURES

Refer to TC-601.

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

Line No.	Location	Side	Width of Closure (FT)	Type III Barricades* (No.)	Remarks
1.0	368619	Right	6.0	1	STG 1 - 111TH ST
2.0	368760	Right	6.0	1	STG 1 - 111TH ST
3.0	368800	Right	6.0	1	STG 1 - 111TH ST
4.0	368985	Right	6.0	1	STG 1 - FRONTAGE RD
5.0	368806	Left	6.0	1	STG 2 - 111TH ST
6.0	368639	Left	6.0	1	STG 3 - 111TH ST
7.0	368902	Left	6.0	1	STG 3 - 111TH ST

Division 1
PEDESTRIAN PATH CLOSURE = 7 EA (Includes Class III Barricade)

TEMPORARY LANE SEPARATOR SYSTEM

See TC-61

Line No.	Station From	Station To	Length (LF)	Remarks
1.0	680+81.00	698+52.00	1771.0	STG 2 - U.S.6/HICKMAN
2.0	3686+62.00	3687+49.60	90.0	STG 2 - NW 111th
3.0	3688+05.02	3690+09.00	300.0	STG 2 - NW 111th
4.0	3686+42.00	3687+50.00	112.0	STG 3 - NW 111th
5.0	3688+05.00	3690+09.00	300.0	STG 3 - NW 111th (Installed in Stage 2)

Division 1

TEMPORARY LANE SEPARATOR SYSTEM = 2273 LF

TEMPORARY FLOODLIGHTING LUMINAIRES

Possible Standard: LI-130

Line No.	Item No.	Station	Offset (FT)	Number Luminaires	Remarks
1.0	1	683+50.00	18.0	1	Stage 1A Night Work
2.0	2	687+10.00	17.0	1	Stage 1A Night Work
3.0	3	690+70.00	17.0	1	Stage 1A Night Work
4.0	4	692+00.00	17.0	1	Stage 1A Night Work
5.0	5	695+50.00	17.0	1	Stage 1A Night Work
6.0	6	701+55.00	5.0	1	Stage 1A Night Work

Division 1

TEMPORARY FLOODLIGHTING LUMINAIRE: 6

302_99
Modified

TABULATION OF SPECIAL EVENTS

Line No.	Event	Location	Date
1	The Salt Company Conference	Iowa Events Center	January 1-3, 2027
2	Iowa Pork Congress	Iowa Events Center	January 20-21, 2027
3	Iowa Ag Expo	Iowa Events Center	January 29-February 4, 2027
4	Netlynx Sports President's Day Challenge	MidAmerican Energy RecPlex	February 13-15, 2027
5	Boys State Wrestling Tournament	Casey's Center	February 17-20, 2027
6	Des Moines Home Garden Show	Iowa Events Center	February 25-28, 2027
7	Iowa AAU Kids State Folkstyle Wrestling Championships	Iowa Events Center	February 26-28, 2027
8	Girls State Basketball Tournament	Casey's Center	March 1-6, 2027
9	Prince Hall Grand Lodge Grand Mastes & Masons	Des Moines Marriott Downtown	March 11-14, 2027
10	USA Wrestling Folkstyle Nationals	MidAmerican Energy RecPlex	March 12-14, 2027
11	American Society of Animal Science Midwest Meeting	Iowa Events Center	March 14-17, 2027
12	Iowa State 8 & 9 Ball Championships	Hy-Vee Hall	April 7-11, 2027
13	Amateur Athletic Twin Rivers Nationals Girls Wrestling	MidAmerican Energy RecPlex	April 9-11, 2027
14	AAU Middle School Wrestling Duals	MidAmerican Energy RecPlex	March 1-3, 2027
15	American Public Works Assn North American Snow Conference	Iowa Events Center	April 18-21, 2027
16	Drake Relays America's Athletic Classic	Drake Stadium	April 21-24, 2027
17	Midwest JVA Challenge	Hy-Vee Hall/MidAm Energy RecPlex	May 1-2, 2027
18	Iowa High School Co-Ed State Track Meet	Drake Stadium	May 20-22, 2027
19	CelebrASIAN	Western Gateway Park	May 21-22, 2027
20	Principal Charity Classic	Wakonda Golf Course	June 2027
21	Downtown Farmers' Market	Historic Court District	Saturdays, May - October, 2027
22	Valley Junction Farmers Market	Historic Valley Junction	Thursdays, May - September, 2027
23	EMC DAM to DSM	Saylorville Dam & Cowles Commons	June 5, 2027
24	Greek Food Fair	Greek Orthodox Church of St. George	June 2027
25	Iowa High School Boys State Soccer	James Cownie Soccer Park/Mediacom Stadium	June 1 - 5, 2027
26	USA Gymnastics Championship	Iowa Events Center	June 19-27, 2027
27	Iowa Craft Brew Festival	Water Works Park	June 2027
28	World Pork Expo	Iowa State Fairgrounds	June 9-10, 2027
29	Capital City Pride Fest	Historic East Village	June 11-13, 2027
30	Iowa Juneteenth Observance	Greater Des Moines	June 19, 2027
31	Des Moines Arts Festival	Western Gateway Park	June 25-27, 2027
32	Yankee Doodle Pops	Iowa State Capitol	July 3, 2027
33	GoodGuys Heartland Nationals	Iowa State Fairgrounds	July 2027
34	All Iowa Attack Center Stage	Iowa Events Center/MidAm Energy RecPlex	July 9-12, 2027
35	National Balloon Classic	Indianola Memorial Balloon Field	July 30-August 7, 2027
36	Hinterland Music Festival	St. Charles, IA	2027
37	USA Triathlon Sprint, Olympic-Distance National Championships	Des Moines, Iowa	August 5-8, 2027
38	American Bankers Assn Agricultural Bankers Conference	Iowa Events Center	August 14-18, 2027
39	Iowa State Fair	Iowa State Fairgrounds	August 12-22, 2027
40	World Food & Music Festival	Western Gateway Park	August 2027
41	GalaxyCon	Iowa Events Center	September 9-12, 2027
42	NRECA Region 5 & 6 Meeting	Iowa Events Center	September 13-16, 2027
43	Des Moines Streetstyle Open	Lauridsen Skatepark	2027
44	Iowa Latino Heritage Festival	Western Gateway Park	September 2027
45	Norman E. Borlaug International Symposium	The World Food Prize	October 12-16, 2027
46	WICSEC Annual Training Conference	Des Moines Marriott Downtown	October 18-22, 2027
47	IMT Des Moines Marathon	Downtown Des Moines	October 2027
48	USA Wrestling Preseason Nationals	Des Moines, Iowa	October 28-31, 2027
49	Living History Farms Off Road Race	Living History Farms	November 2027
50	Des Moines Turkey Trot	Downtown Des Moines	November 25, 2027
51	Disney on Ice	Wells Fargo Arena	November 2027
52	Festival of Trees & Lights	Iowa Events Center	November 26-28, 2027
53	Holiday Promenade East Village	Historic East Village	November-December 2027
54	Iowa Dance & Drill Team Association State Team Competition	EMC Expo Center	December 2, 2027
55	Christkindlmarket Des Moines	Principal Park	December 2-5 & 9-12, 2027

254_01
9/28/22

INCIDENT MANAGEMENT

An incident management plan, provided by the District Office, will be discussed at the pre-construction conference.

CROSS SECTION VIEW COLOR LEGEND OF TRAFFIC CONTROL AND STAGING SHEETS

SHADING	Design Color No.	
Green, Light	(225)	Existing Pavement Shading
Gray, Light	(48)	Previously Constructed Pavement Shading
Gray, Med	(80)	Previously Constructed Granular Surface Shading
Blue, Light	(230)	Proposed Pavement Shading
Lavender	(9)	Temporary Pavement Shading
Brown, Med	(237)	Future Proposed Pavement Shading

CROSS SECTION VIEW PATTERN AND SYMBOL LEGEND OF TRAFFIC CONTROL AND STAGING SHEETS

	Pavement Removal		Proposed Granular Shoulder
	Proposed Granular Subbase		Temporary Shoulder
	Proposed Special Backfill		Existing Shoulder Strengthening
	Temporary Barrier Rail		Permanent Barrier Rail
			Channelizing Device

PLAN VIEW COLOR LEGEND OF TRAFFIC CONTROL AND STAGING SHEETS

LINEWORK	Design Color No.	
Green	(2)	Existing Topographic Features and Labels
Magenta	(5)	Pavement Marking Call Outs
Blue	(1)	Proposed Alignment, Stationing, Tic Marks, and Alignment Annotation
Yellow	(4)	Pavement Markings, Yellow
Off White	(254)	Pavement Markings, White
Violet	(15)	Temporary barrier rail, Unpinned
Flush Orange	(228)	Temporary barrier rail, Pinned

SHADING	Design Color No.	
Green, Light	(225)	Existing Pavement Shading
Gray, Light	(48)	Previously Constructed Pavement Shading
Gray, Med	(80)	Proposed Granular Surface Shading
Gray, Med	(80)	Previously Constructed Granular Surface Shading
Blue, Light	(230)	Proposed Pavement Shading
Lavender	(9)	Previously Constructed Temporary Pavement Shading
Orange	(6)	Proposed Temporary Pavement Shading
Brown, Light	(236)	Proposed Grading Limits Shading
Pink, Dark	(13)	Proposed MSE or CIP Wall Shading
Red	(3)	Proposed Bridge Shading and Sign Trusses
Black w/Gray, Light Fill	(0,48)	Previously Constructed Structure

PLAN VIEW PATTERN AND SYMBOL LEGEND OF TRAFFIC CONTROL AND STAGING SHEETS

	Channelizing Device		Crash Cushion (Temp or Perm)
	Drum		Traffic Signal
	Temporary Lane Separator		Flagger
	Tubular Marker		Temporary Floodlighting
	Channelizer Marker		Traffic Sign
	Concrete Barrier Marker		Type III Barricade
	Delineator		Type A Warning Light
	Temporary Barrier Rail		Direction of Traffic
	Pavement Removal		Safety Closure
	Sand Barrel Layout	1	Lane Identification
or	Detour Route		Portable Dynamic Message Sign
	Closed Roadway		Direction of Traffic

NOTE: Device spacing according to Standard Road Plans unless specifically dimensioned.

TRAFFIC CONTROL AND STAGING LEGEND AND SYMBOL INFORMATION SHEET

(COVERS SHEET SERIES J)

Version Date
June 9, 2022
Long Term Construction

Day and Nighttime closures:
Sun: 8 PM - Fri: 10 AM

Nighttime Closures Only
Sun: 6 PM - 9 AM
Mon: 6 PM - 9 AM
Tues: 6 PM - 9 AM
Wed: 6 PM - 9 AM
Thurs: 6 PM - 9 AM
Fri: 7 PM - 9 AM
Sat: 5 PM to 10 AM

Nighttime closures only for RT & LT lanes
& Inside Shoulder No Restrictions

Center Lane closings requires a LT. lane closure
Sun: 7 PM - 5 AM
Mon: 7 PM - 5 AM
Tues: 7 PM - 5 AM
Wed: 7 PM - 5 AM
Thurs: 7 PM - 5 AM

Nighttime closures only for RT. and LT. lanes
& Inside Shoulder
Sun: 9 PM - 6 AM
Mon: 8 PM - 6 AM
Tues: 8 PM - 6 AM
Wed: 8 PM - 6 AM
Thurs: 8 PM - 6 AM
Fri: 9 PM to 7 AM
Sat: 9PM to 9 AM
No outside shoulder closures allowed:
Mon - Fri: 6 AM - 9 AM; 3 PM - 6 PM Daily

RT or Lt Lane Closures
Sun - Thurs 6 PM - 6 AM

Center Lane Closure w/RT or LT Lane
Sun - Thurs 8 PM - 5 AM

Nighttime closures only for RT. and LT. lanes
& Inside Shoulder
Sun - Thurs: 9 PM - 5 AM
Center Lane Closure w/RT or LT Lane.
11 PM - 4 AM
No outside shoulder closures allowed:
Mon - Fri: 6 AM - 9 AM; 3 PM - 6 PM Daily

Rt or Lt Lane Closures
Sunday Night to Friday Morning
8 PM - 6 AM

Center Lane Requiring Lt or Rt Lane
Sunday Night to Friday Morning
11 PM - 5 AM

Nighttime Closures Only
Sun: 9 PM - Mon: 6 AM
Mon - Thurs: 8 PM - 6 AM Nightly

Nighttime closures only for RT & LT Lanes & Inside Shoulder
Sun - Thurs 8 PM - 5 AM

Center Lane closings requires a LT. or Rt. Lane closure
Sun - Thurs 10 PM - 4 AM

No outside shoulder closures allowed:
Mon - Fri: 6 AM - 9 AM; 3 PM - 6 PM Daily

Rt or Lt Lane Closures
Sunday Night to Friday Morning
6 PM - 6 AM

Center Lane Requiring Lt or Rt Lane
Sunday Night to Friday Morning
7 PM - 5 AM

Nighttime closures only for RT & LT Lanes & Inside Shoulder
Sun - Thurs 9 PM - 5 AM

Center Lane closings requires a LT. or Rt. Lane closure
Sun - Thurs 10 PM - 4 AM

No outside shoulder closures allowed:
Mon - Fri: 6 AM - 9 AM; 3 PM - 6 PM Daily

Rt or Lt Lane Closures
Sunday Night to Friday Morning
7 PM - 6 AM

Center Lane Requiring Lt or Rt Lane
Sunday Night to Friday Morning
10 PM - 4 AM

Nighttime closures only for RT & LT Lanes & Inside Shoulder
Sun - Thurs 7 PM - 5 AM

Center Lane closings requires a LT. or Rt. Lane closure
Sun - Thurs 9 PM - 4 AM

No outside shoulder closures allowed:
Mon - Fri: 6 AM - 9 AM; 3 PM - 6 PM Daily

Nighttime closures only for RT. and LT. lanes
& Inside Shoulder
Sun: 12 PM - 5 AM
Mon - Thurs.
6 PM - 5 AM
No outside shoulder closures allowed:
Mon - Fri: 6 AM - 9 AM; 3 PM - 6 PM Daily

Allowable Interstate Closure Map Construction (DOT District 1)

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER J.12

1:08:37 PM 6/15/2022 gkretl2 W:\Highway\District1\Design\Staff Engineers\Potential Projects\District 1 Allowable Closures\Closures_B01.dgn

Daytime Closures
Mon: 9 AM - 3 PM
Tues: 9 AM - 3 PM
Wed: 9 AM - 3 PM
Thurs:9 AM - 3 PM
Nighttime Closures
Sun: 7 PM - 5 AM
Mon: 7 PM - 5 AM
Tues: 7 PM - 5 AM
Wed: 7 PM - 5 AM
Thurs: 7 PM - 5 AM
No closures allowed:
Mon - Fri: 5 AM - 9 AM; 3 PM - 6 PM Daily

Daytime Closures
Mon: 9 AM - 3 PM
Tues: 9 AM - 3 PM
Wed: 9 AM - 3 PM
Thurs:9 AM - 3 PM
Nighttime Closures
Sun: 7 PM - 5 AM
Mon: 7 PM - 5 AM
Tues: 7 PM - 5 AM
Wed: 7 PM - 5 AM
Thurs: 7 PM - 5 AM
No closures allowed:
Mon - Fri: 5 AM - 9 AM; 3 PM - 6 PM Daily
No Daytime Allowed
May 1 to September 15th

Daytime Closures (Allowed May 15th to August 15th)
Mon: 9 AM - 3 PM
Tues: 9 AM - 3 PM
Wed: 9 AM - 3 PM
Thurs:9 AM - 3 PM
Nighttime Closures
Sun: 7 PM - 5 AM
Mon: 7 PM - 5 AM
Tues: 7 PM - 5 AM
Wed: 7 PM - 5 AM
Thurs: 7 PM - 5 AM
No closures allowed:
Mon - Fri: 6 AM - 9 AM; 3 PM - 6 PM Daily

Daytime Closures
Mon: 9 AM - 3 PM
Tues: 9 AM - 3 PM
Wed: 9 AM - 3 PM
Thurs:9 AM - 3 PM
Center Lane closings requiring a LT. or Rt. lane closure
Sun: 7 PM - 5 AM
Mon: 7 PM - 5 AM
Tues: 7 PM - 5 AM
Wed: 7 PM - 5 AM
Thurs: 7 PM - 5 AM
No closures allowed:
Mon - Fri: 6 AM - 9 AM; 3 PM - 6 PM Daily

Nighttime Closures
Sun: 7 PM - 5 AM
Mon: 7 PM - 5 AM
Tues: 7 PM - 5 AM
Wed: 7 PM - 5 AM
Thurs: 7 PM - 5 AM

Lane Closures Allowed except for the following times:
Northbound: 3 pm - 6 pm
Southbound: 9:00 am - 9 am

Daytime Closures (Lt. or Rt. Lane Only)
Mon: 9 AM - 3 PM
Tues: 9 AM - 3 PM
Wed: 9 AM - 3 PM
Thurs:9 AM - 3 PM
Center Lane closings requiring a LT. or Rt. lane closure
Sun: 7 PM - 5 AM
Mon: 7 PM - 5 AM
Tues: 7 PM - 5 AM
Wed: 7 PM - 5 AM
Thurs: 7 PM - 5 AM
No closures allowed:
Mon - Fri: 5 AM - 9 AM; 3 PM - 6 PM Daily

Daytime Closures (Allowed Sept 15th to May 1)
Mon: 9 AM - 3 PM
Tues: 9 AM - 3 PM
Wed: 9 AM - 3 PM
Thurs:9 AM - 3 PM
Nighttime Closures
Sun: 7 PM - 5 AM
Mon: 7 PM - 5 AM
Tues: 7 PM - 5 AM
Wed: 7 PM - 5 AM
Thurs: 7 PM - 5 AM
No closures allowed:
Mon - Fri: 6 AM - 9 AM; 3 PM - 6 PM Daily

GRANGER
GRANGER
GRIMES
JOHNSTON
URBANDALE
ANKENY
ELKHART
BONDURANT
MITCHELLVILLE
ALTOONA

Des Moines Metro Allowable Lane Closures

Date: 12/9/22

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER J.13

7:53:57 AM 12/9/2022 gkretl2 W:\Highway\District1\Design\Staff Engineers\Potential Projects\District 1 Allowable Closures\Old\MetroAllowableClosures.dgn

Daytime Closures (Allowed May 15th to August 15th)
Mon: 9 AM - 3 PM
Tues: 9 AM - 3 PM
Wed: 9 AM - 3 PM
Thurs:9 AM - 3 PM
Nighttime Closures
Sun: 7 PM - 5 AM
Mon: 7 PM - 5 AM
Tues: 7 PM - 5 AM
Wed: 7 PM - 5 AM
Thurs: 7 PM - 5 AM
No closures allowed:
Mon - Fri: 6 AM - 9 AM; 3 PM - 6 PM Daily

Nighttime Closures
Sun: 7 PM - 5 AM
Mon: 7 PM - 5 AM
Tues: 7 PM - 5 AM
Wed: 7 PM - 5 AM
Thurs: 7 PM - 5 AM

Daytime Closures
Mon: 9 AM - 3 PM
Tues: 9 AM - 3 PM
Wed: 9 AM - 3 PM
Thurs:9 AM - 3 PM
Nighttime Closures
Sun: 7 PM - 5 AM
Mon: 7 PM - 5 AM
Tues: 7 PM - 5 AM
Wed: 7 PM - 5 AM
Thurs: 7 PM - 5 AM
No closures allowed:
Mon - Fri: 5 AM - 9 AM; 3 PM - 6 PM Daily

URBANDALE
CLIVE
WAUKEE
WINDSOR HEIGHTS
ALTOONA
PLEASANT HILL
WEST DES MOINES
DES MOINES
CARLISLE
POLK CO.
WARREN CO.
MADISON CO.

Daytime Closures
Mon: 9 AM - 3 PM
Tues: 9 AM - 3 PM
Wed: 9 AM - 3 PM
Thurs:9 AM - 3 PM
Nighttime Closures
Sun: 7 PM - 5 AM
Mon: 7 PM - 5 AM
Tues: 7 PM - 5 AM
Wed: 7 PM - 5 AM
Thurs: 7 PM - 5 AM
No closures allowed:
Mon - Fri: 5 AM - 9 AM; 3 PM - 6 PM Daily

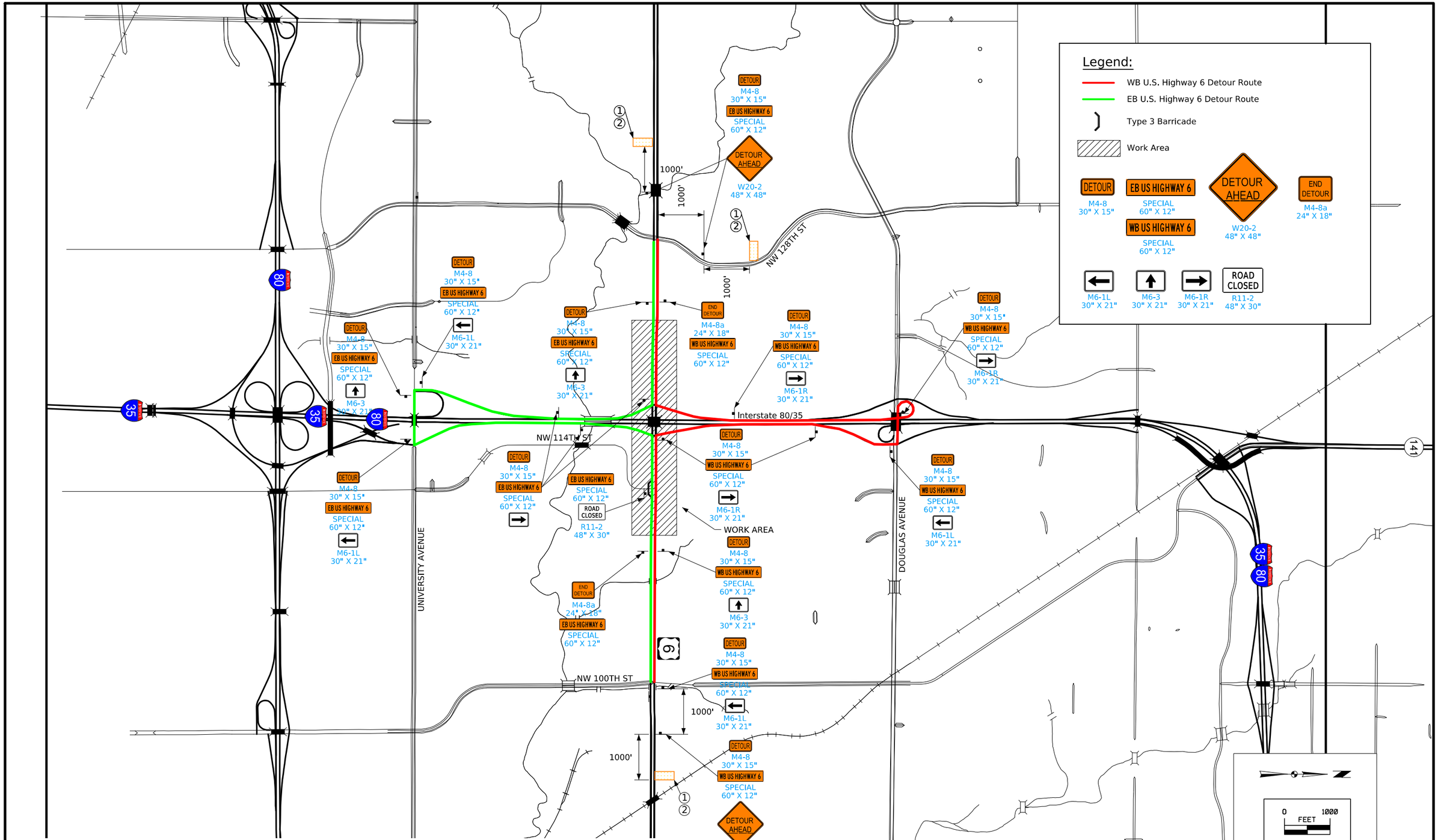
Nighttime Closures
Sun: 7 PM - 5 AM
Mon: 7 PM - 5 AM
Tues: 7 PM - 5 AM
Wed: 7 PM - 5 AM
Thurs: 7 PM - 5 AM

Des Moines Metro Allowable Lane Closures

Date: 12/9/22

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER J.14

7:53:59 AM 12/9/2022 gkretl2 W:\Highway\District1\Design\Staff Engineers\Potential Projects\District 1 Allowable Closures\Old\MetroAllowableClosures.dgn



Keyed Notes

① Place PDMS Two Weeks Prior to U.S. Highway 6 Closure. Use Message: U.S. HIGHWAY 6 CLOSED AT I-35/80 (ADD DATE).

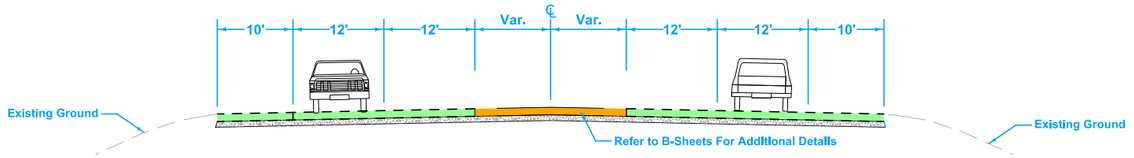
② During U.S. Highway 6 Closure, Use Message: U.S. HIGHWAY 6 CLOSED AT I-35/80 FOLLOW DETOUR.

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER J.20

3:50:25 PM 7/2/2026 choover pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\7708006015\Design_(274)_US6 GradePave\CADD_Files\Sheet_Files\SHT_77080274Z08_J20.dgn

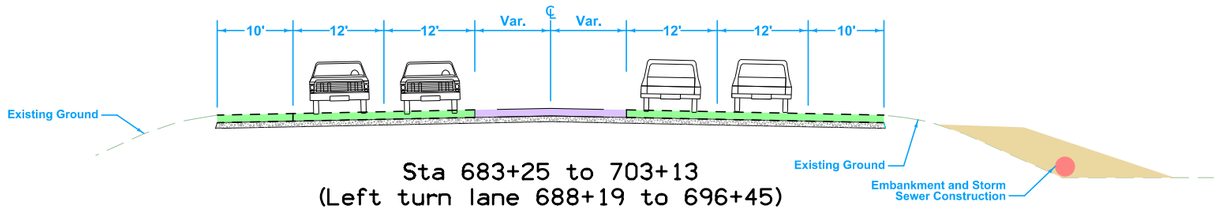
V2

Stage 1A - US6 (Hickman Road)



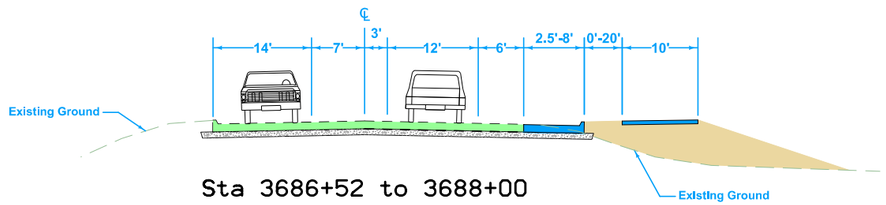
Sta 684+00 to 703+50

Stage 1B - US6 (Hickman Road)

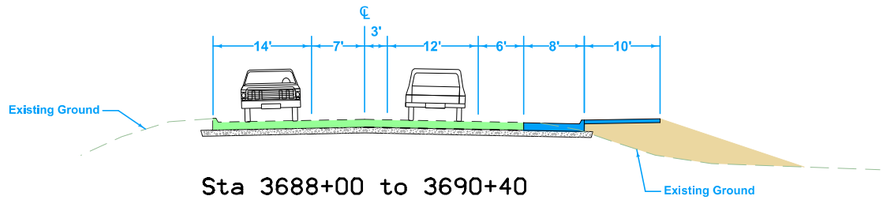


Sta 683+25 to 703+13
(Left turn lane 688+19 to 696+45)

Stage 1B - NW 111th Street

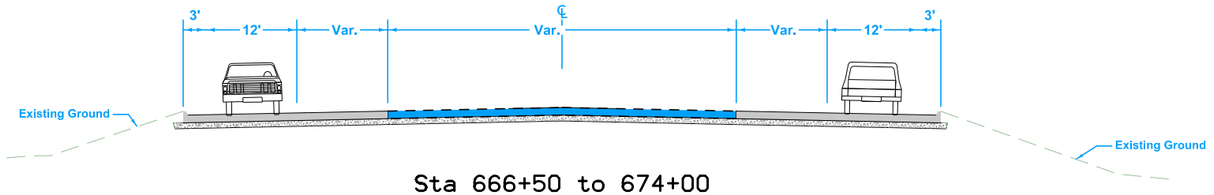


Sta 3686+52 to 3688+00

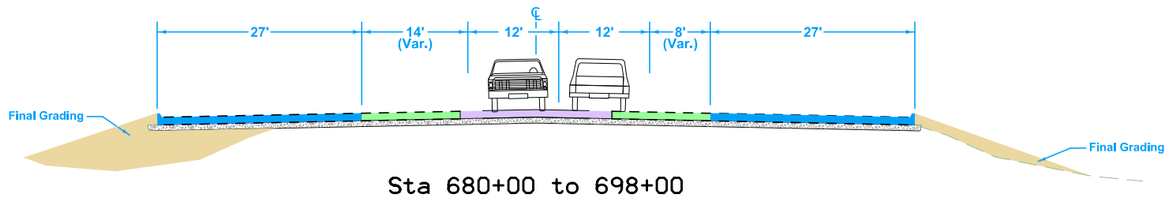


Sta 3688+00 to 3690+40

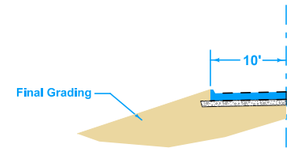
Stage 2 - US6 (Hickman Road)



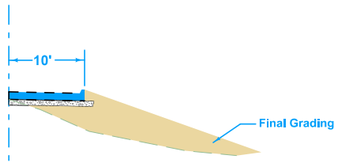
Sta 666+50 to 674+00



Sta 680+00 to 698+00

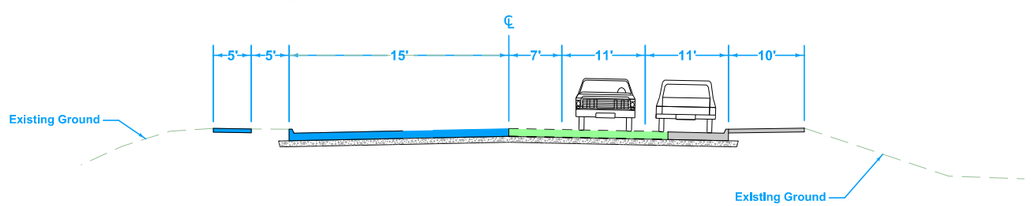


Sta 692+38 to 694+10



Sta 687+63 to 690+40

Stage 2 - NW 111th Street



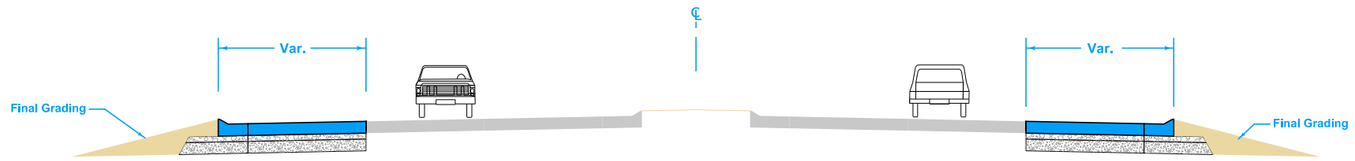
Sta 3688+00 to 3690+46

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER J.51	

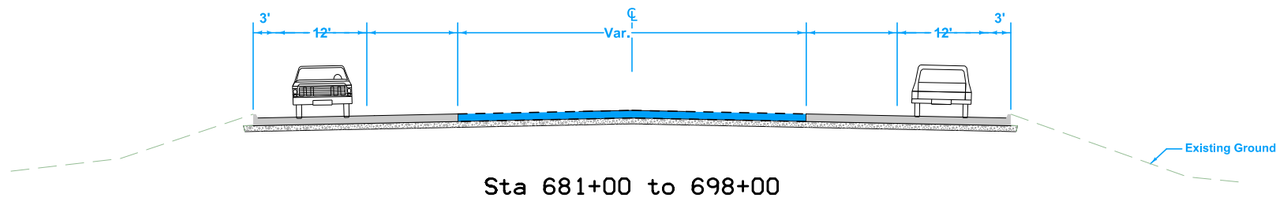
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V2

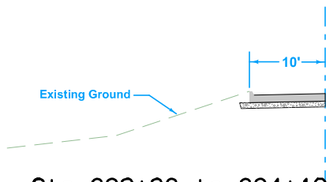
Stage 3 - US6 (Hickman Road)



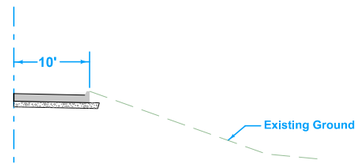
Sta 666+50 to 670+00



Sta 681+00 to 698+00

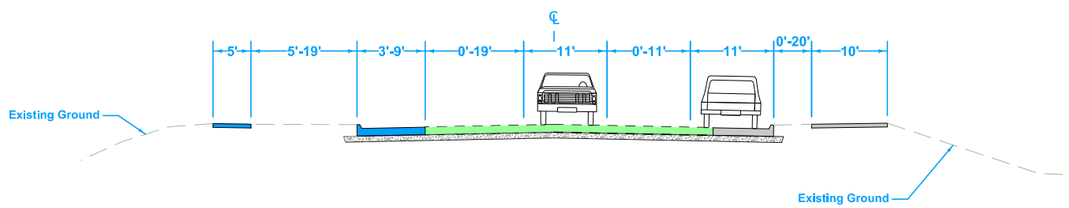


Sta 692+38 to 694+10



Sta 687+63 to 690+40

Stage 3 - NW 111th Street

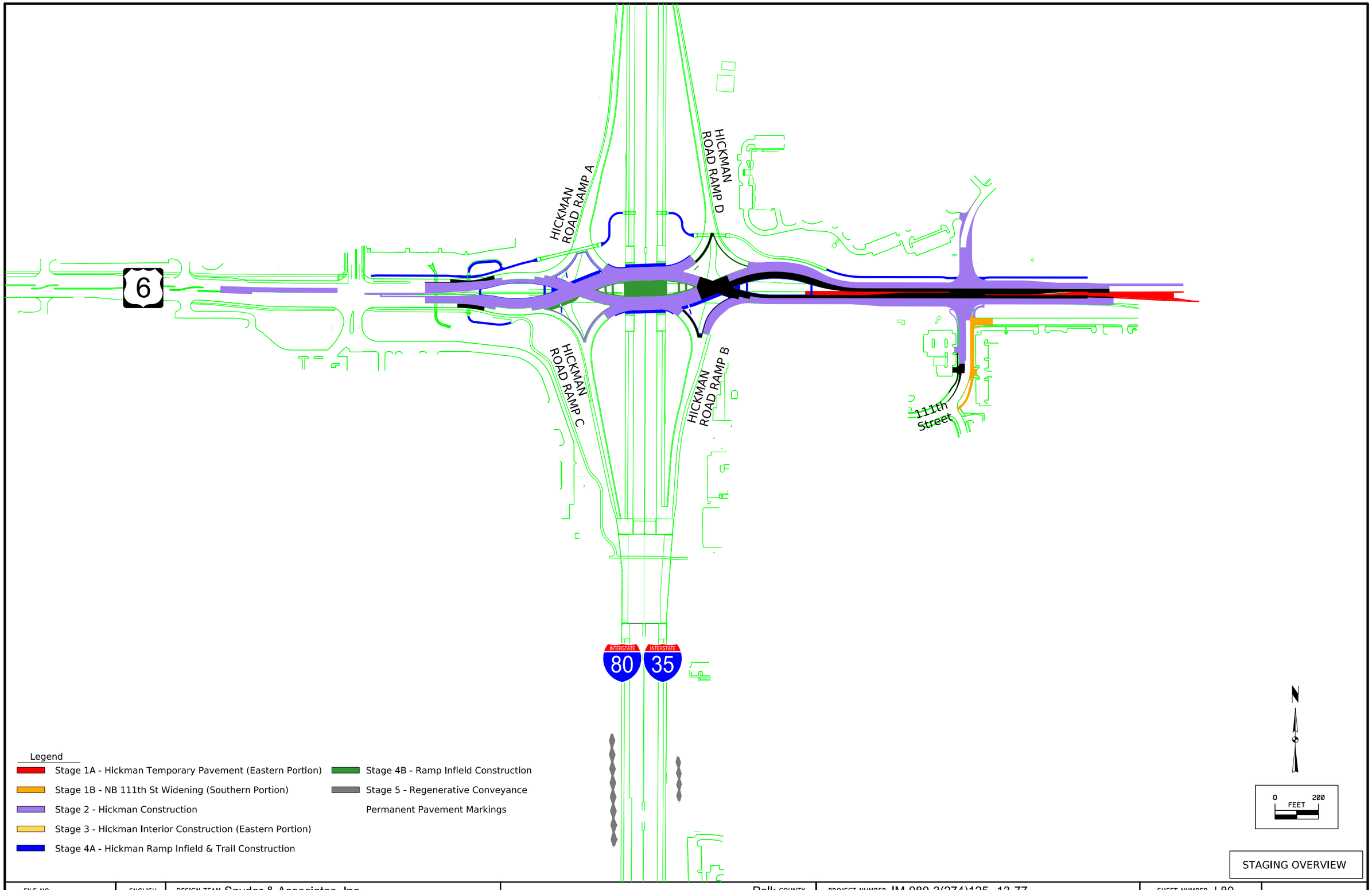


Sta 3686+52 to 3688+00

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER J.52

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V2



STAGING OVERVIEW

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER J.80

3:50:36 PM 7/2/2026 choover pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\7708006015\Design_(274)_US6 GradePave\CADD_Files\Sheet_Files\SHT_77080274Z08_J80.dgn

V2

WALNUT TWP.
T-79N R-25W
SEC. 29
CIty of Urbandale

666+00
667+00
668+00
669+00
670+00
671+00
672+00
673+00
674+00
675+00
676+00
677+00
678+00
679+00
680+00

U.S. 6 / Hickman Road

1-80/35 SB/WB
1-80/35 NB/EB

ROAD WORK AHEAD
W20-1
48" x 48"

LEFT LANE CLOSED AHEAD
W20-5
48" x 48"

ROAD WORK AHEAD
W20-1
48" x 48"

WALNUT TWP.
T-79N R-25W
SEC. 32
City of Clive

0 FEET 50

Staging Plan - Stage 1A
U.S. Hwy 6 (Hickman Road)

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER J.100	

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V2

WALNUT TWP.
T-79N R-25W
SEC. 28
City of Urbandale

MERGE

W4-2M
48" x 48"

G20-2A
48" x 24"

END
ROAD WORK

Sta. 682+10
Begin Inside Lane Drop

681+00
682+00
683+00
684+00
685+00
686+00
687+00
688+00
689+00
690+00
691+00
692+00
693+00
694+00
695+00
696+00

3693+00
3692+00
3691+00
3690+00
3689+00
3688+00
3687+00
3686+00
3695+00
3694+00
3696+00

80' Spacing

Inside Shoulder Closure
Per TC-402

10:1 Taper

10:1 Taper

U.S. 6 / Hickman Road

45' Spacing

Sta. 684+00
Begin Detour Pavement
Typical #1 (See B.7)

25:1 Taper

Sta. 685+18
End Inside Lane Drop

Inside Shoulder Closure
Per TC-402

Sta. 686+50
End Detour Pavement
Typical #1 (See B.7)

80' Spacing

Sta. 687+00
Begin Detour Pavement
Typical #2 (See B.7)

Sta. 690+96.00
End Detour Pavement
Typical #2 (See B.7)

Sta. 691+74.59
Begin Detour Pavement
Typical #2 (See B.7)

Frontage Road

111th Street

WALNUT TWP.
T-79N R-25W
SEC. 33
City of Clive

0 FEET 50

Staging Plan - Stage 1A
U.S. Hwy 6 (Hickman Road)

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER J.101

5:49:51 PM 7/6/2026 choover pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\7708006015\Design_(274)_US6 GradePave\CADD_Files\Sheet_Files\SHT_77080274Z08_J100.dgn

V2

WALNUT TWP.
T-79N R-25W
SEC. 28
City of Urbandale

3704+00
3705+00
3706+00
3707+00
3708+00
3709+00
3710+00
3713+00
3714+00
3715+00
3716+00
3717+00

696+00
697+00
698+00
699+00
700+00
701+00
702+00
703+00
704+00
705+00
706+00
707+00
708+00
709+00
710+00
711+00

Sta. 697+00.00
End Detour Pavement
Typical #2 (See B.7)

Inside Shoulder Closure
Per TC-402

Sta. 698+00.00
Begin Detour Pavement
Typical #3 (See B.7)

80' Spacing

Sta. 700+97.85
End Detour Pavement
Typical #3 (See B.7)

Sta. 701+41
Begin Inside Lane Drop

Install Stabilized Construction
Entrance Per EC-303

50:1 Taper

45' Spacing

Sta. 707+77
End Inside Lane Drop

Install Advanced Signing
Per TC-418

U.S. 6 / Hickman Road

Sta. 697+00.00
3.50' RT
Elevation: 887.06'

Inside Shoulder Closure
Per TC-402

Sta. 698+00.00
3.73' RT
Elevation: 885.67'

80' Spacing

Sta. 700+00.00
3.99' RT
Elevation: 883.38'

Sta. 700+96.62
3.87' RT
Elevation: 882.08'

END
ROAD WORK

G20-2A
48" x 24"

WALNUT TWP.
T-79N R-25W
SEC. 33
City of Clive

0 FEET 50

Staging Plan - Stage 1A
U.S. Hwy 6 (Hickman Road)

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER J.102	

5:49:52 PM 7/6/2026 choover pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\7708006015\Design_(274)_US6 GradePave\CADD_Files\Sheet_Files\SHT_77080274Z08_J100.dgn

V2

WALNUT TWP.
T-79N R-25W
SEC. 29
City of Urbandale

WALNUT TWP.
T-79N R-25W
SEC. 28
City of Urbandale

669+00
670+00
671+00
672+00
673+00
674+00
675+00
676+00
677+00
678+00
679+00
680+00
681+00
682+00
683+00

G20-2A
48" x 24"
END
ROAD WORK

Install Stabilized Construction
Entrance Per EC-303

STA. 684+00
BEGIN ELY6

U.S. 6 / Hickman Road

Remove 23 LF
of Pipe

Install P-57T
See M.1 for
pipe data.

STA. 684+01.42
BEGIN ELY6

ROAD
WORK
AHEAD
W20-1
48" x 48"

SHOULDER
DROP
OFF
W8-9A
48" x 48"

ROAD
WORK
AHEAD
W20-1
48" x 48"

1-80/35 SB/WB

1-80/35 NB/EB

0 50
FEET

WALNUT TWP.
T-79N R-25W
SEC. 32
City of Clive

WALNUT TWP.
T-79N R-25W
SEC. 33
City of Clive

Staging Plan - Stage 1B
U.S. Hwy 6 (Hickman Road)

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER J.103

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V2

WALNUT TWP.
T-79N R-25W
SEC. 28
City of Urbandale

3695+00
3694+00
3693+00
3692+00
3691+00
3690+00
3689+00
3688+00
3687+00
3686+00
3685+00
3684+00
3683+00

684+00
685+00
686+00
687+00
688+00
689+00
690+00
691+00
692+00
693+00
694+00
695+00
696+00
697+00
698+00
699+00

SHOULDER DROP OFF
W8-9A
48" x 48"

ROAD WORK AHEAD
W20-1
48" x 48"

END ROAD WORK
G20-2A
48" x 24"

Install ST-69T with Beehive Intake Casting. Refer to M.1 for structure data. Grade surrounding area to drain.

ruction EC-303

Bury End of Box Culvert

Outside Shoulder Closure Per TC-402

STA. 690+95 END ELY6

STA. 691+74.50 BEGIN ELY6

U.S. 6 / Hickman Road

Remove Section of Box Culvert

Outside Shoulder Closure Per TC-402

Remove Section of Pipe

Remove Section of Pipe

P-69T See M.1 For Pipe Data

Bore P-69A & P-69 to ST-69T as one run. Install ST-69A and connect to existing 15" RCP. Refer to M.1 for structure data.

Install Stabilized Construction Entrance Per EC-303

STA. 690+95.93 END ELY6

STA. 691+74.50 BEGIN ELY6

111th Street

0 FEET 50

WALNUT TWP.
T-79N R-25W
SEC. 33
City of Clive

Staging Plan - Stage 1B
U.S. Hwy 6 (Hickman Road)

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER J.104

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V2

WALNUT TWP.
T-79N R-25W
SEC. 28
City of Urbandale

3704+00
3705+00
3706+00
3707+00
3708+00
3709+00
3710+00
3713+00
3714+00
3715+00
3716+00
3717+00

699+00
700+00
701+00
702+00
703+00
704+00
705+00
706+00
707+00
708+00
709+00
710+00
711+00
712+00
713+00
714+00

STA. 701+41.63
END ELY6

U.S. 6 / Hickman Road

STA. 702+13.35
END ELY6

INSTALL TEMPORARY TRAFFIC SIGNALS
REFER TO TIED PROJECT
IM-080-3(277)125--13-77

ROAD CLOSED AHEAD

W20-3
48" x 48"

WALNUT TWP.
T-79N R-25W
SEC. 33
City of Clive

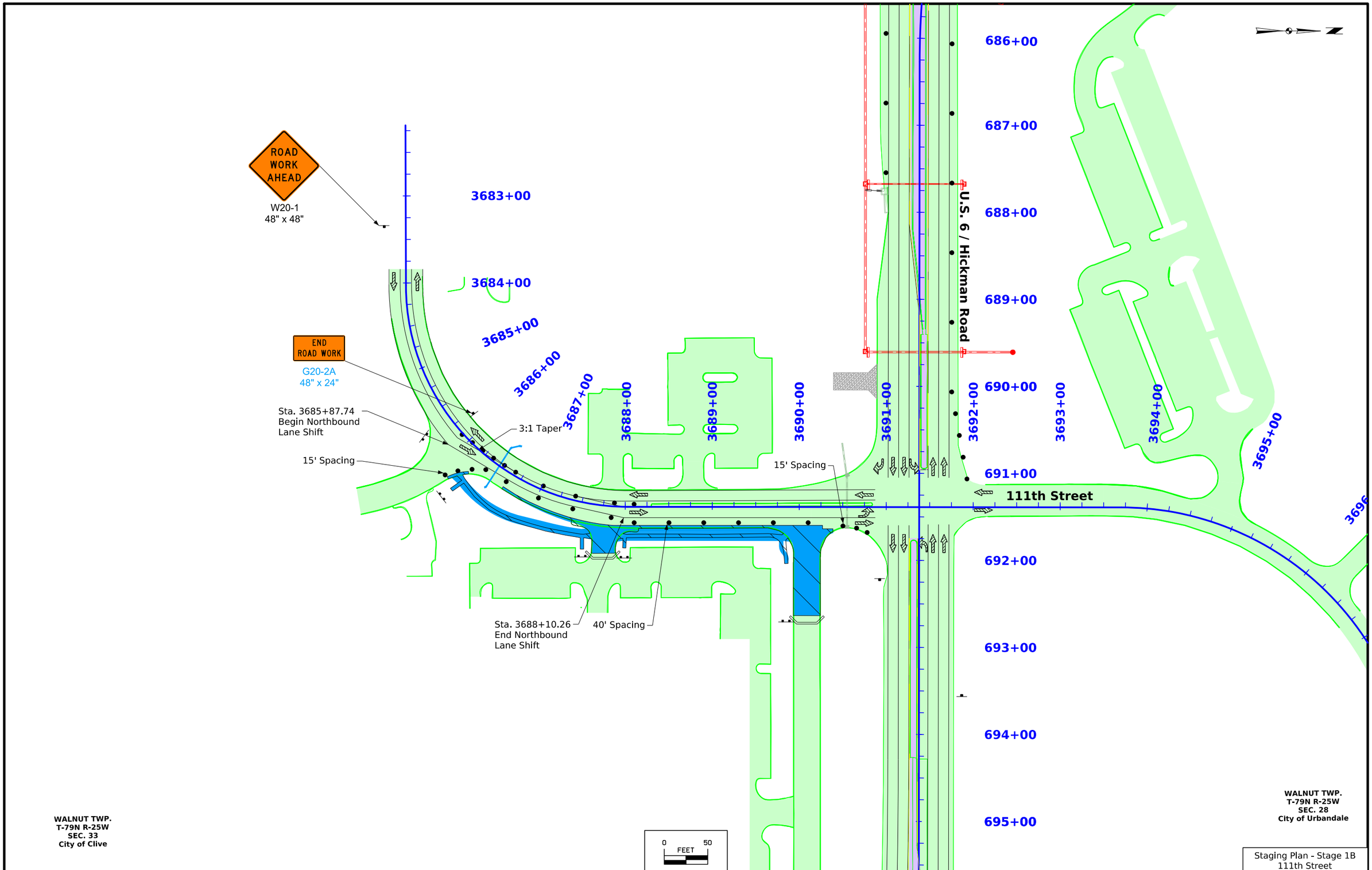
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FEET

Staging Plan - Stage 1B
U.S. Hwy 6 (Hickman Road)

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER J.105

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V2



Staging Plan - Stage 1B
111th Street

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER J.106

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V2

WALNUT TWP.
T-79N R-25W
SEC. 29
City of Urbandale

639+00 640+00 641+00 642+00 643+00 644+00 645+00 646+00 647+00 648+00 649+00 650+00 651+00 652+00 653+00

U.S. 6 / Hickman Road

Sta. 645+00
Begin Inside Lane Drop

30:1 Taper

30' Spacing

30' Spacing

30' Spacing

75:1 Taper

80' Spacing

Sta. 648+71
End Inside Lane Drop

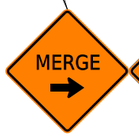
75:1 Taper

Sta. 651+74
Begin Eastbound Lane Shift

80' Spacing



W20-1
48" x 48"



W4-2M
48" x 48"



W9-1
48" x 48"

WALNUT TWP.
T-79N R-25W
SEC. 32
City of Clive

0 FEET 50

Staging Plan - Stage 2
U.S. Hwy 6 (Hickman Road)

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER J.200	

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V2

WALNUT TWP.
T-79N R-25W
SEC. 29
City of Urbandale

END ROAD WORK
G20-2A
48" x 24"

654+00
655+00
656+00
657+00
658+00
659+00
660+00
661+00
662+00
663+00
664+00
665+00
666+00
667+00
668+00
669+00

U.S. 6 / Hickman Road

Sta. 661+02
Begin Addition of 11' Lane

12:1 Taper

80' Spacing

Sta. 659+51
Complete Addition of 11' Lane

STA. 663+71.11
BEGIN PAVEMENT
MARKING REMOVAL

R4-7a
36" x 48"
KEEP RIGHT

STA. 664+00.22
BEGIN PAVEMENT
MARKING REMOVAL

STA. 664+13.82
BEGIN ELW6

Sta. 665+21
Complete Addition of 11' Lanes

STA. 665+36.90
END PAVEMENT
MARKING REMOVAL

Sta. 666+49
Begin Addition of 11' Lanes

STA. 666+50.00
END PAVEMENT
MARKING REMOVAL

RIGHT LANE
MUST
TURN RIGHT
R3-7
30" x 30"

Sta. 656+36
Begin Eastbound Lane Shift

Sta. 657+70
Begin Addition of 11' Lane

STA. 657+85.09
BEGIN PAVEMENT
MARKING REMOVAL

Sta. 658+68
Complete Addition of 11' Lane

15:1 Taper

80' Spacing

Sta. 659+34
End Eastbound Lane Shift

STA. 662+35.74
END PAVEMENT
MARKING REMOVAL

Sta. 664+96
Begin Eastbound Lane Shift

Sta. 664+15
End Eastbound Lane Shift

80' Spacing

WALNUT TWP.
T-79N R-25W
SEC. 32
City of Clive

0 50
FEET

Staging Plan - Stage 2
U.S. Hwy 6 (Hickman Road)

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER J.201	

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V2

WALNUT TWP.
T-79N R-25W
SEC. 29
CIty of Urbandale

WALNUT TWP.
T-79N R-25W
SEC. 28
City of Urbandale

424+00
423+00
422+00
421+00
420+00
419+00
418+00
417+00
416+00
415+00

669+00
670+00
671+00
672+00
673+00
674+00
675+00
676+00
677+00
678+00
679+00
680+00
681+00
682+00
683+00
684+00

STA. 667+33.65
END ELW6

80' Spacing

Install Stabilized Construction Entrance Per EC-303

Remove Existing Pipe

G20-2A
48" x 24"
END ROAD WORK

Remove 44 LF Of Existing Culvert
Construct Temporary Connection From Existing Culvert To ST-64 with P-64T. See M.1 for Pipe Data

Remove End of Culvert and Re-grade To Drain East To ST-69T

Maintain Drainage To ST-69T

U.S. 6 / Hickman Road

Remove Previously Abandoned Pipe

Remove Previously Abandoned 4' x 7' Box Culvert

80' Spacing

Remove Intake & Both Connected Pipes

Remove Existing Intakes

Remove Pipe

Sta. 680+81
Begin Temporary Lane Separator System

Sta. 680+81
Begin Eastbound Lane
Begin 11' Lane Width

STA. 684+01.46
BEGIN PAVEMENT MARKING REMOVAL

Remove Section of Pipe

1-80/35 SB/WB

1-80/35 NB/EB

END ROAD WORK
G20-2A
48" x 24"

0 50
FEET

WALNUT TWP.
T-79N R-25W
SEC. 32
City of Clive

WALNUT TWP.
T-79N R-25W
SEC. 33
CIty of Clive

Staging Plan - Stage 2
U.S. Hwy 6 (Hickman Road)

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER J.202

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V2

WALNUT TWP.
T-79N R-25W
SEC. 28
City of Urbandale

3695+00
3694+00
3693+00
3692+00
3691+00
3690+00
3689+00
3688+00
3687+00
3686+00
3685+00
3684+00
3683+00

111th Street

U.S. 6 / Hickman Road

Frontage Road

Outside Shoulder Closure
Per TC-402

STA. 695+34.06
BEGIN PAVEMENT
MARKING REMOVAL

Sta. 694+40
Begin Lane Shift
Begin Transition to 12' Lane Width

Sta. 698+52
End Temporary Lane
Separator System

STA. 690+95.93
END PAVEMENT
MARKING REMOVAL

Outside Shoulder Closure
Per TC-402

80' Spacing

Sta. 684+00
Begin East & Westbound Lane Shift

Remove Section
of Box Culvert

Remove Intake

Outside Shoulder Closure
Per TC-402

80' Spacing

Sta. 686+50
End East & Westbound Lane Shift

STA. 691+74.50
BEGIN PAVEMENT
MARKING REMOVAL

Outside Shoulder Closure
Per TC-402

80' Spacing

Sta. 697+58
Begin Eastbound Lane Shift

REVEL HOTEL
HOTEL RENOVO
MACHINE SHED
LIVING HISTORY FARMS

M6-3
30" x 21"

Special
60" x 30"

0 50
FEET

WALNUT TWP.
T-79N R-25W
SEC. 33
City of Clive

Staging Plan - Stage 2
U.S. Hwy 6 (Hickman Road)

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER J.203

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V2

WALNUT TWP.
T-79N R-25W
SEC. 28
City of Urbandale

3704+00
3705+00
3706+00
3707+00
3708+00
3709+00
3710+00
3713+00
3714+00
3715+00
3716+00
3717+00
699+00
700+00
701+00
702+00
703+00
704+00
705+00
706+00
707+00
708+00
709+00
710+00
711+00
712+00
713+00
714+00

M6-1R
30" x 21"

Special
60" x 30"

REVEL HOTEL
HOTEL RENOVO
MACHINE SHED
LIVING HISTORY FARMS

MERGE

W4-2M
48" x 48"

STA. 701+49.76
BEGIN PAVEMENT
MARKING REMOVAL

Sta. 702+24
Begin Outside Lane Drop
End Lane Shift
Begin 12' Lane Width

STA. 702+13.35
END PAVEMENT
MARKING REMOVAL

45:1 Taper

Sta. 707+65
End Outside Lane Drop

Install Advanced Signing
Per TC-418

80' Spacing

U.S. 6 / Hickman Road

END
ROAD WORK

G20-2A
48" x 24"

TEMPORARY TRAFFIC SIGNALS
REFER TO TIED PROJECT
IM-080-3(277)125--13-77

Sta. 700+62
Begin Transition to 12' Lane Width

Sta. 702+56
End Eastbound Lane Shift
Begin 12' Lane Width

ROAD
WORK
AHEAD

W20-1
48" x 48"

0 50
FEET

WALNUT TWP.
T-79N R-25W
SEC. 33
City of Clive

Staging Plan - Stage 2
U.S. Hwy 6 (Hickman Road)

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER J.204

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V2

ROAD WORK AHEAD

W20-1
48" x 48"

END ROAD WORK

G20-2A
48" x 24"

3683+00

3684+00

3685+00

3686+00

3687+00

3688+00

3689+00

3690+00

3691+00

3692+00

3693+00

3694+00

3695+00

3696+00

3697+00

3698+00

3699+00

686+00

687+00

688+00

689+00

690+00

691+00

692+00

693+00

694+00

695+00

U.S. 6 / Hickman Road

Sta. 3685+64
End Southbound Lane Shift
Begin 12' Lane Width

25' Spacing

Sta. 3687+40
Begin Southbound Lane Shift
Transition to 12' Lane Width

40' Spacing

REVEL HOTEL
HOTEL RENOVO
MACHINE SHED
LIVING HISTORY FARMS

Special
60" x 30"

M6-3
30" x 21"

WALNUT TWP.
T-79N R-25W
SEC. 28
City of Urbandale

WALNUT TWP.
T-79N R-25W
SEC. 33
City of Clive

0 FEET 50

Staging Plan - Stage 2
111th Street

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER J.205	

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V2

WALNUT TWP.
T-79N R-25W
SEC. 32
City of Clive

STA. 5409+52.38
BEGIN RLW6

STA. 5409+52.38
BEGIN PAVEMENT
MARKING REMOVAL

STA. 5409+52.38
BEGIN DLW6

STA. 5414+48.97
END DLW6
BEGIN BLW6

STA. 5415+68.93
BEGIN PAVEMENT
MARKING REMOVAL

STA. 5416+28.62
END BLW6

STA. 5417+21.51
END PAVEMENT
MARKING REMOVAL

STA. 5418+07.37
END PAVEMENT
MARKING REMOVAL

404+00 405+00 406+00 407+00 408+00 409+00 410+00 411+00 412+00 413+00 414+00 415+00 416+00 417+00 418+00 419+00

1-80/35 SB/WB

1-80/35 NB/EB

STA. 4416+05.79
BEGIN PAVEMENT
MARKING REMOVAL

STA. 4414+15.06
BEGIN PAVEMENT
MARKING REMOVAL

STA. 4416+05.99
BEGIN PAVEMENT
MARKING REMOVAL

STA. 4416+05.97
BEGIN PAVEMENT
MARKING REMOVAL

STA. 4419+07.36
END PAVEMENT
MARKING REMOVAL

STA. 4417+45.37
BEGIN RLY6

Sta. 4410+88
Begin Outside Lane Drop

Install Advanced Signing
Per TC-418

55' Spacing

55:1 Taper

STA. 441745.54
BEGIN RLW6

Sta. 4410+88
End Outside Lane Drop

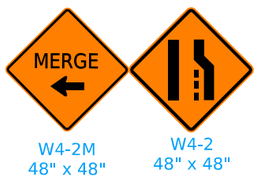
STA. 4417+63.22
END PAVEMENT
MARKING REMOVAL

STA. 4419+00.00
END PAVEMENT
MARKING REMOVAL

STA. 4419+03.44
END PAVEMENT
MARKING REMOVAL

STA. 4419+89.64
END RLY6

STA. 4419+84.43
END RLW6



W4-2M
48" x 48"

W4-2
48" x 48"

I-80/35 Sta. 400+90

WALNUT TWP.
T-79N R-25W
SEC. 33
City of Clive

0 FEET 50

Staging Plan - Stage 2
Ramp B

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER J.206	

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V2

WALNUT TWP.
T-79N R-25W
SEC. 29
City of Urbandale

671+00
672+00
673+00
674+00
675+00
676+00
677+00
678+00
679+00
680+00

STA. 3420+42.31
BEGIN PAVEMENT
MARKING REMOVAL

STA. 3420+75.83
BEGIN PAVEMENT
MARKING REMOVAL

STA. 3421+03.56
BEGIN PAVEMENT
MARKING REMOVAL

Sta. 3423+04
Begin Lane Shift
Begin Transition to 12' Lane Width

STA. 3423+04.36
END PAVEMENT
MARKING REMOVAL

STA. 3424+84.33
END PAVEMENT
MARKING REMOVAL

STA. 3424+84.31
END PAVEMENT
MARKING REMOVAL

STA. 3424+83.88
END RLW6

Sta. 3424+84
End Lane Shift
Begin 12' Lane Width

Install Advanced Signing
Per TC-418

STA. 3421+03.56
BEGIN PAVEMENT
MARKING REMOVAL

STA. 3424+64.68
END PAVEMENT
MARKING REMOVAL

Sta. 3524+74
Begin Inside Lane Drop

420+00 421+00 422+00 423+00 424+00 425+00 426+00 427+00 428+00 429+00 430+00 431+00 432+00 433+00 434+00 435+00

55:1 Taper

Sta. 3432+32
End Inside Lane Drop

1-80/35 SB/WB

1-80/35 NB/EB

STA. 6419+66.16
BEGIN PAVEMENT
MARKING REMOVAL

STA. 6420+67.52
END PAVEMENT
MARKING REMOVAL

STA. 6420+59.600
END PAVEMENT
MARKING REMOVAL

STA. 6419+53.37
BEGIN PAVEMENT
MARKING REMOVAL

WALNUT TWP.
T-79N R-25W
SEC. 28
City of Urbandale

0 50
FEET

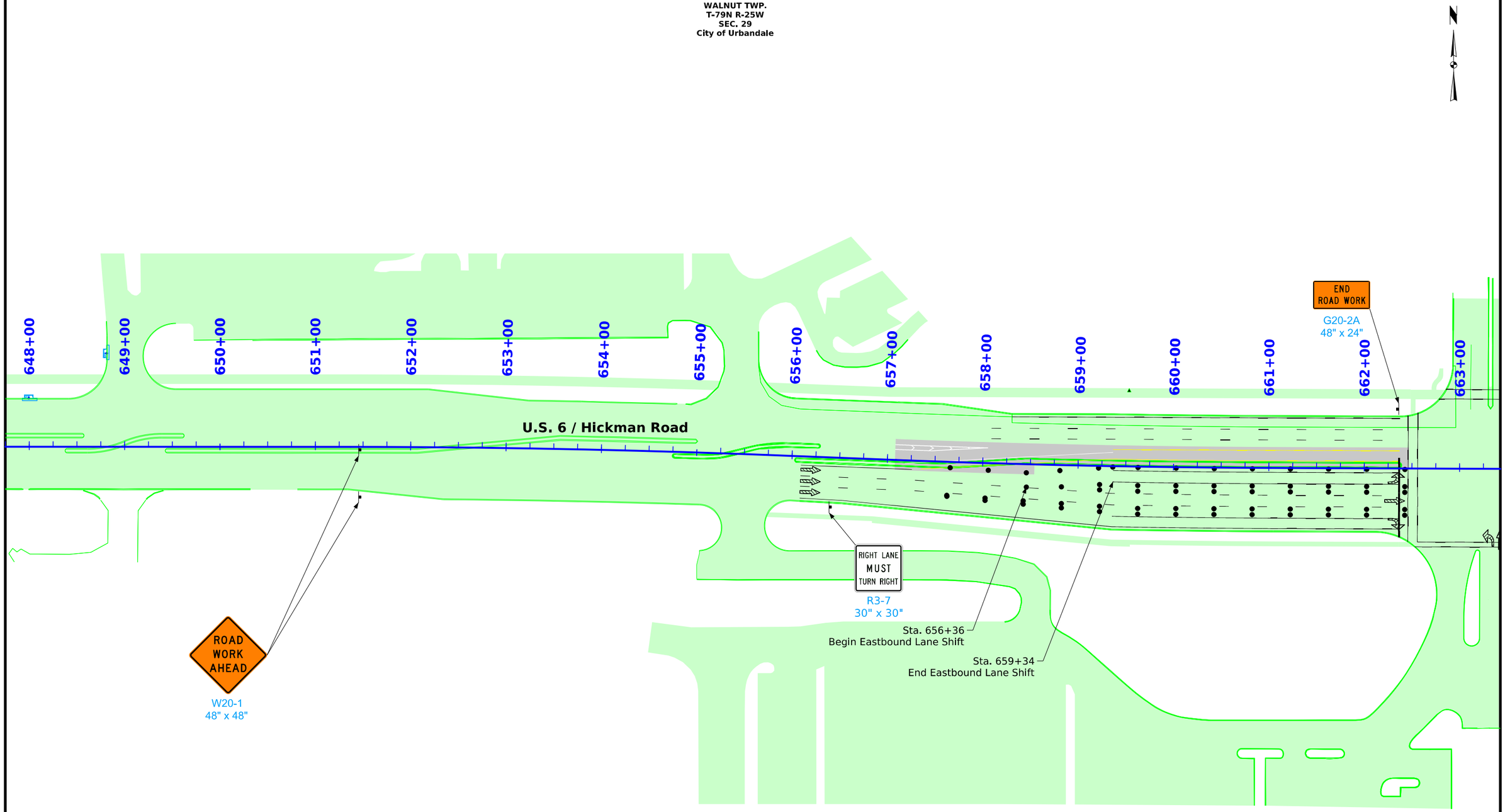
Staging Plan - Stage 2
Ramp A

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER J.207

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V2

WALNUT TWP.
T-79N R-25W
SEC. 29
City of Urbandale



WALNUT TWP.
T-79N R-25W
SEC. 32
City of Clive

0 FEET 50

Staging Plan - Stage 3
U.S. Hwy 6 (Hickman Road)

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER J.300	

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V2

WALNUT TWP.
T-79N R-25W
SEC. 29
City of Urbandale

663+00
664+00
665+00
666+00
667+00
668+00
669+00
670+00
671+00
672+00
673+00
674+00
675+00
676+00
677+00
678+00

3424+00
3423+00
3422+00
3421+00
3420+00

424+00
423+00
422+00
421+00
420+00
419+00
418+00
417+00
416+00
415+00
441+7+00
441+6+00
441+5+00

INSTALL PERMANENT TRAFFIC SIGNALS
REFER TO TIED PROJECT
IM-080-3(277)125--13-77

40' Spacing

Outside Shoulder Closure
Per TC-402

U.S. 6 / Hickman Road

40' Spacing

Outside Shoulder Closure
Per TC-402

Inside Shoulder Closure
Per TC-402

40' Spacing

INSTALL PERMANENT TRAFFIC SIGNALS
REFER TO TIED PROJECT
IM-080-3(277)125--13-77

END
ROAD WORK
G20-2A
48" x 24"

INSTALL PERMANENT TRAFFIC SIGNALS
REFER TO TIED PROJECT
IM-080-3(277)125--13-77

1-80/35 SB/WB

1-80/35 NB/EB

WALNUT TWP.
T-79N R-25W
SEC. 32
City of Clive

0 50
FEET

Staging Plan - Stage 3
U.S. Hwy 6 (Hickman Road)

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER J.301

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V2

WALNUT TWP.
T-79N R-25W
SEC. 28
City of Urbandale

END ROAD WORK
G20-2A
48" x 24"

Remove P-64T & Existing Culvert. Plug Opening In ST-64.

40' Spacing

INSTALL PERMANENT TRAFFIC SIGNALS
REFER TO TIED PROJECT
IM-080-3(277)125--13-77

Remove ST-69T
& Re-Connect P-69

Remove Remainder
of Box Culvert

Inside Shoulder Closure
Per TC-402

Remove Intakes, and Pipe
Including P-69T.
Plug Opening in ST-69A.

Outside Shoulder Closure
Per TC-402

Remove Existing
Intakes & Pipe

Fill, Plug, & Abandon Pipe

Remove P-57T
& Existing Pipe.
Complete P-56.

Remove Existing Pipe

Fill, Plug, & Abandon Pipe

Remove Existing Manhole & Pipe

INSTALL PERMANENT TRAFFIC SIGNALS
REFER TO TIED PROJECT
IM-080-3(277)125--13-77

679+00
680+00
681+00
682+00
683+00
684+00
685+00
686+00
687+00
688+00
689+00
690+00
691+00
692+00
693+00

3692+00
3693+00
3694+00
3695+00

4419+00
4418+00

U.S. 6 / Hickman Road

REVEL HOTEL
HOTEL RENOVO
MACHINE SHED
LIVING HISTORY FARMS

M6-3
30" x 21"

Special
60" x 30"

WALNUT TWP.
T-79N R-25W
SEC. 33
City of Clive

0 50
FEET

Staging Plan - Stage 3
U.S. Hwy 6 (Hickman Road)

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER J.302

4:50:38 PM 7/6/2026 choover pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\7708006015\Design_(274)_US6 GradePave\CADD_Files\Sheet_Files\SHT_77080274Z08_J300.dgn

V2

WALNUT TWP.
T-79N R-25W
SEC. 28
City of Urbandale

3704+00
3705+00
3706+00
3707+00
3708+00
3709+00
3710+00
3713+00
3714+00

694+00
695+00
696+00
697+00
698+00
699+00
700+00
701+00
702+00
703+00
704+00
705+00
706+00
707+00
708+00

Sta. 694+25
Begin Lane Shift

80' Spacing

Sta. 699+32
End Lane Shift

Sta. 700+00
Begin Outside Lane Drop

45' Spacing

45:1 Taper

Sta. 705+40
End Outside Lane Drop

Install Advanced Signing
Per TC-418

M6-3
30" x 21"

Special
60" x 30"

REVEL HOTEL
HOTEL RENOVO
MACHINE SHED
LIVING HISTORY FARMS

U.S. 6 / Hickman Road

40' Spacing

Outside Shoulder Closure
Per TC-402

Frontage Road

ROAD
WORK
AHEAD

W20-1
48" x 48"

END
ROAD WORK

G20-2A
48" x 24"

TEMPORARY TRAFFIC SIGNALS
REFER TO TIED PROJECT
IM-080-3(277)125--13-77

0 50
FEET

WALNUT TWP.
T-79N R-25W
SEC. 33
City of Clive

Staging Plan - Stage 3
U.S. Hwy 6 (Hickman Road)

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER J.303	

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V2

ROAD WORK AHEAD

W20-1
48" x 48"

END ROAD WORK

G20-2A
48" x 24"

3683+00

3684+00

3685+00

3686+00

3687+00

3688+00

3689+00

3690+00

3691+00

3692+00

3693+00

3694+00

3695+00

686+00

687+00

688+00

689+00

690+00

691+00

692+00

693+00

694+00

695+00

U.S. 6 / Hickman Road

111th Street

Sta. 3685+64
End Southbound Lane Shift
Begin 12' Lane Width

Sta. 3686+38
Begin Southbound Lane Shift
Transition to 12' Lane Width

40' Spacing

REVEL HOTEL
HOTEL RENOVO
MACHINE SHED
LIVING HISTORY FARMS

Special
60" x 30"

M6-3
30" x 21"

0 50
FEET

WALNUT TWP.
T-79N R-25W
SEC. 33
City of Clive

WALNUT TWP.
T-79N R-25W
SEC. 28
City of Urbandale

Staging Plan - Stage 3
111th Street

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER J.304

4:50:40 PM 7/6/2026 choover pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\7708006015\Design_(274)_US6 GradePave\CADD_Files\Sheet_Files\SHT_77080274Z08_J300.dgn

V2

WALNUT TWP.
T-79N R-25W
SEC. 32
City of Clive

403+00 404+00 405+00 406+00 407+00 408+00 409+00 410+00 411+00 412+00 413+00 414+00 415+00 416+00 417+00 418+00

4404+00 4405+00 4406+00 4407+00 4408+00 4409+00 4410+00 4411+00 4412+00 4413+00 4414+00 4415+00 4416+00 4417+00 4418+00

1-80/35 SB/WB

1-80/35 NB/EB

Ramp B

Sta. 4407+69
Begin Inside Lane Drop

Install Advanced Signing
Per TC-418

55:1 Taper

55' Spacing

Sta. 4414+27
End Inside Lane Drop

40' Spacing

WALNUT TWP.
T-79N R-25W
SEC. 33
City of Clive

0 50
FEET

Staging Plan - Stage 3
Ramp B

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER J.305	

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V2

WALNUT TWP.
T-79N R-25W
SEC. 29
City of Urbandale

1+00
72+00
3420+00
3421+00
3422+00
3423+00
3424+00
3425+00
3426+00
3427+00
3428+00
3429+00
3430+00
3431+00
3432+00
3433+00
3434+00
3435+00
73+00
74+00
75+00
40' Spacing
Ramp A
Sta. 3524+74
Begin Inside Lane Drop
55' Spacing
55:1 Taper
Sta. 3432+32
End Inside Lane Drop
Install Advanced Signing
Per TC-418
421+00
422+00
423+00
424+00
425+00
426+00
427+00
428+00
429+00
430+00
431+00
432+00
433+00
434+00
435+00
676+00
1-80/35 SB/WB
677+00
1-80/35 NB/EB
678+00
679+00
680+00
0 50
FEET
Staging Plan - Stage 3
Ramp A

FILE NO.	ENGLISH	DESIGN TEAM	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER J.306	

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V2

WALNUT TWP.
T-79N R-25W
SEC. 29
City of Urbandale

656+00
657+00
658+00
659+00
660+00
661+00
662+00
663+00
664+00
665+00
666+00
667+00
668+00
669+00
670+00
671+00

END
ROAD WORK
G20-2A
48" x 24"

Inside Shoulder Closure
Per TC-402

U.S. 6 / Hickman Road

ROAD
WORK
AHEAD
W20-1
48" x 48"

Inside Shoulder Closure
Per TC-402

WALNUT TWP.
T-79N R-25W
SEC. 32
City of Clive

0 50
FEET

Staging Plan - Stage 4A
U.S. Hwy 6 (Hickman Road)

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER J.400	

4:50:48 PM 7/6/2026 choover pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\7708006015\Design_(274)_US6 GradePave\CADD_Files\Sheet_Files\SHT_77080274Z08_J400.dgn

V2

WALNUT TWP.
T-79N R-25W
SEC. 29
City of Urbandale

WALNUT TWP.
T-79N R-25W
SEC. 28
City of Urbandale

END
ROAD WORK
G20-2A
48" x 24"

Install Stabilized Construction
Entrance Per EC-303

Install Stabilized Construction
Entrance Per EC-303

Outside Shoulder Closure
Per TC-402

Inside Shoulder Closure
Per TC-402

40' Spacing

40' Spacing

Inside Shoulder Closure
Per TC-402

40' Spacing

40' Spacing

Outside Shoulder Closure
Per TC-402

END
ROAD WORK
G20-2A
48" x 24"

424+00
423+00
422+00
421+00
420+00
419+00
418+00
417+00
416+00
415+00

672+00
673+00
674+00
675+00
676+00
677+00
678+00
679+00
680+00
681+00
682+00
683+00
684+00
685+00
686+00

U.S. 6 / Hickman Road

1-80/35 SB/WB

1-80/35 NB/EB

0 50
FEET

WALNUT TWP.
T-79N R-25W
SEC. 32
City of Clive

WALNUT TWP.
T-79N R-25W
SEC. 33
City of Clive

Staging Plan - Stage 4A
U.S. Hwy 6 (Hickman Road)

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER J.401	

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V2

WALNUT TWP.
T-79N R-25W
SEC. 28
City of Urbandale

3704+00
3705+00
3706+00
3707+00
3708+00
3695+00
3694+00
3693+00
3692+00
3691+00
3690+00
3689+00
3688+00
3687+00
3686+00
3685+00
3684+00
3683+00

687+00
688+00
689+00
690+00
691+00
692+00
693+00
694+00
695+00
696+00
697+00
698+00
699+00
700+00
701+00
702+00

Outside Shoulder Closure
Per TC-402

ROAD
WORK
AHEAD
W20-1
48" x 48"

END
ROAD WORK
G20-2A
48" x 24"

U.S. 6 / Hickman Road

Frontage Road

111th Street

0 50
FEET

WALNUT TWP.
T-79N R-25W
SEC. 33
City of Clive

Staging Plan - Stage 4A
U.S. Hwy 6 (Hickman Road)

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER J.402

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V2

WALNUT TWP.
T-79N R-25W
SEC. 32
CIty of CIIve

403+00 404+00 405+00 406+00 407+00 408+00 409+00 410+00 411+00 412+00 413+00 414+00 415+00 416+00 417+00 418+00

1-80/35 SB/WB

1-80/35 NB/EB

40' Spacing

40' Spacing

Ramp B

ROAD WORK AHEAD

W20-1
48" x 48"

WALNUT TWP.
T-79N R-25W
SEC. 33
City of Clive

0 FEET 50

Staging Plan - Stage 4A
Ramp B

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER J.403	

4:50:51 PM 7/6/2026 choover pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\7708006015\Design_(274)_US6 GradePave\CADD_Files\Sheet_Files\SHT_77080274Z08_J400.dgn

V2

WALNUT TWP.
T-79N R-25W
SEC. 29
City of Urbandale

+00

+00

3+00

4+00

5+00

76+00

77+00

78+00

679+00

680+00

40' Spacing

Ramp A

ROAD WORK AHEAD

W20-1
48" x 48"

421+00 422+00 423+00 424+00 425+00 426+00 427+00 428+00 429+00 430+00 431+00 432+00 433+00 434+00 435+00 436+00

1-80/35 SB/WB

1-80/35 NB/EB

0 50
FEET

WALNUT TWP.
T-79N R-25W
SEC. 28
City of Urbandale

Staging Plan - Stage 4A
Ramp A

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER J.404	

4:50:52 PM 7/6/2026 choover pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\7708006015\Design_(274)_US6 GradePave\CADD_Files\Sheet_Files\SHT_77080274Z08_J400.dgn

V2

WALNUT TWP.
T-79N R-25W
SEC. 29
City of Urbandale

N

656+00 657+00 658+00 659+00 660+00 661+00 662+00 663+00 664+00 665+00 666+00 667+00 668+00 669+00 670+00 671+00

U.S. 6 / Hickman Road

END
ROAD WORK
G20-2A
48" x 24"

ROAD
WORK
AHEAD
W20-1
48" x 48"

WALNUT TWP.
T-79N R-25W
SEC. 32
City of Clive

0 FEET 50

Staging Plan - Stage 4B
U.S. Hwy 6 (Hickman Road)

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER J.405	

4:50:59 PM 7/6/2026 choover pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\7708006015\Design_(274)_US6 GradePave\CADD_Files\Sheet_Files\SHT_77080274Z08_J405.dgn

V2

WALNUT TWP.
T-79N R-25W
SEC. 29
City of Urbandale

WALNUT TWP.
T-79N R-25W
SEC. 28
CIty of Urbandale

END
ROAD WORK
G20-2A
48" x 24"

424+00
423+00
422+00
421+00
420+00
419+00
418+00
417+00
416+00
415+00

671+00
672+00
673+00
674+00
675+00
676+00
677+00
678+00
679+00
680+00
681+00
682+00
683+00
684+00
685+00
686+00

Outside Shoulder Closure
Per TC-402

40' Spacing

U.S. 6 / Hickman Road

40' Spacing

Outside Shoulder Closure
Per TC-402

END
ROAD WORK
G20-2A
48" x 24"

40' Spacing

Outside Shoulder Closure
Per TC-402

40' Spacing

Outside Shoulder Closure
Per TC-402

1-80/35 SB/WB

1-80/35 NB/EB

G20-2A
48" x 24"
END
ROAD WORK

0 FEET 50

WALNUT TWP.
T-79N R-25W
SEC. 32
City of Clive

WALNUT TWP.
T-79N R-25W
SEC. 33
City of Clive

Staging Plan - Stage 4B
U.S. Hwy 6 (Hickman Road)

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER J.406

4:50:59 PM 7/6/2026 choover pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\7708006015\Design_(274)_US6 GradePave\CADD_Files\Sheet_Files\SHT_77080274Z08_J405.dgn

V2

WALNUT TWP.
T-79N R-25W
SEC. 28
City of Urbandale

ROAD WORK AHEAD

W20-1
48" x 48"

687+00 688+00 689+00 690+00 691+00 692+00 693+00 694+00 695+00 696+00 697+00 698+00 699+00 700+00 701+00

U.S. 6 / Hickman Road

Frontage Road

111th Street

0 50
FEET

WALNUT TWP.
T-79N R-25W
SEC. 33
City of Clive

Staging Plan - Stage 4B
U.S. Hwy 6 (Hickman Road)

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER J.407	

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V2

WALNUT TWP.
T-79N R-25W
SEC. 32
City of Clive

403+00 404+00 405+00 406+00 407+00 408+00 409+00 410+00 411+00 412+00 413+00 414+00 415+00 416+00 417+00 418+00

1-80/35 SB/WB

1-80/35 NB/EB

Ramp B

ROAD WORK AHEAD

W20-1
48" x 48"

WALNUT TWP.
T-79N R-25W
SEC. 33
City of Clive

0 FEET 50

Staging Plan - Stage 4B
Ramp B

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER J.408	

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V2

WALNUT TWP.
T-79N R-25W
SEC. 29
City of Urbandale

ROAD WORK AHEAD

W20-1
48" x 48"

Ramp A

1-80/35 SB/WB

1-80/35 NB/EB

+00
+00
3+00
4+00
75+00
76+00
77+00
678+00
679+00
680+00

421+00 422+00 423+00 424+00 425+00 426+00 427+00 428+00 429+00 430+00 431+00 432+00 433+00 434+00 435+00 436+00

0 50
FEET

WALNUT TWP.
T-79N R-25W
SEC. 28
City of Urbandale

Staging Plan - Stage 4B
Ramp A

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER J.409

4:51:02 PM 7/6/2026 choover pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\7708006015\Design_(274)_US6 GradePave\CADD_Files\Sheet_Files\SHT_77080274Z08_J405.dgn

V2

END ROAD WORK

G20-2A
48" x 24"

END ROAD WORK

Install Stabilized Construction Entrance Per EC-303

366+00 367+00 368+00 369+00 370+00 371+00 372+00 373+00 374+00 375+00 376+00 377+00 378+00 379+00 380+00

ROAD WORK AHEAD

W20-1
48" x 48"

Install Stabilized Construction Entrance Per EC-303

ROAD WORK AHEAD

W20-1
48" x 48"

0 50
FEET

Staging Plan - Stage 5
Regenative Conveyance

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER J.500

7:35:38 PM 7/6/2026 ncarhoff pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\7708006015\Design_(274)_US6 GradePave\CADD_Files\Sheet_Files\SHT_77080274Z08_J500.dgn

V2

Install Stabilized Construction Entrance Per EC-303

Install Stabilized Construction Entrance Per EC-303

Install Stabilized Construction Entrance Per EC-303

Install Stabilized Construction Entrance Per EC-303

381+00 382+00 383+00 384+00 385+00 386+00 387+00 388+00 389+00 390+00 391+00 392+00 393+00 394+00 395+00 396+00

0 FEET 50

Staging Plan - Stage 5
Regenative Conveyance

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER J.501

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V2

396+00
397+00
398+00
399+00
400+00
401+00
402+00
403+00
404+00
405+00
406+00
407+00
408+00
409+00
410+00
411+00

END
ROAD WORK
G20-2A
48" x 24"

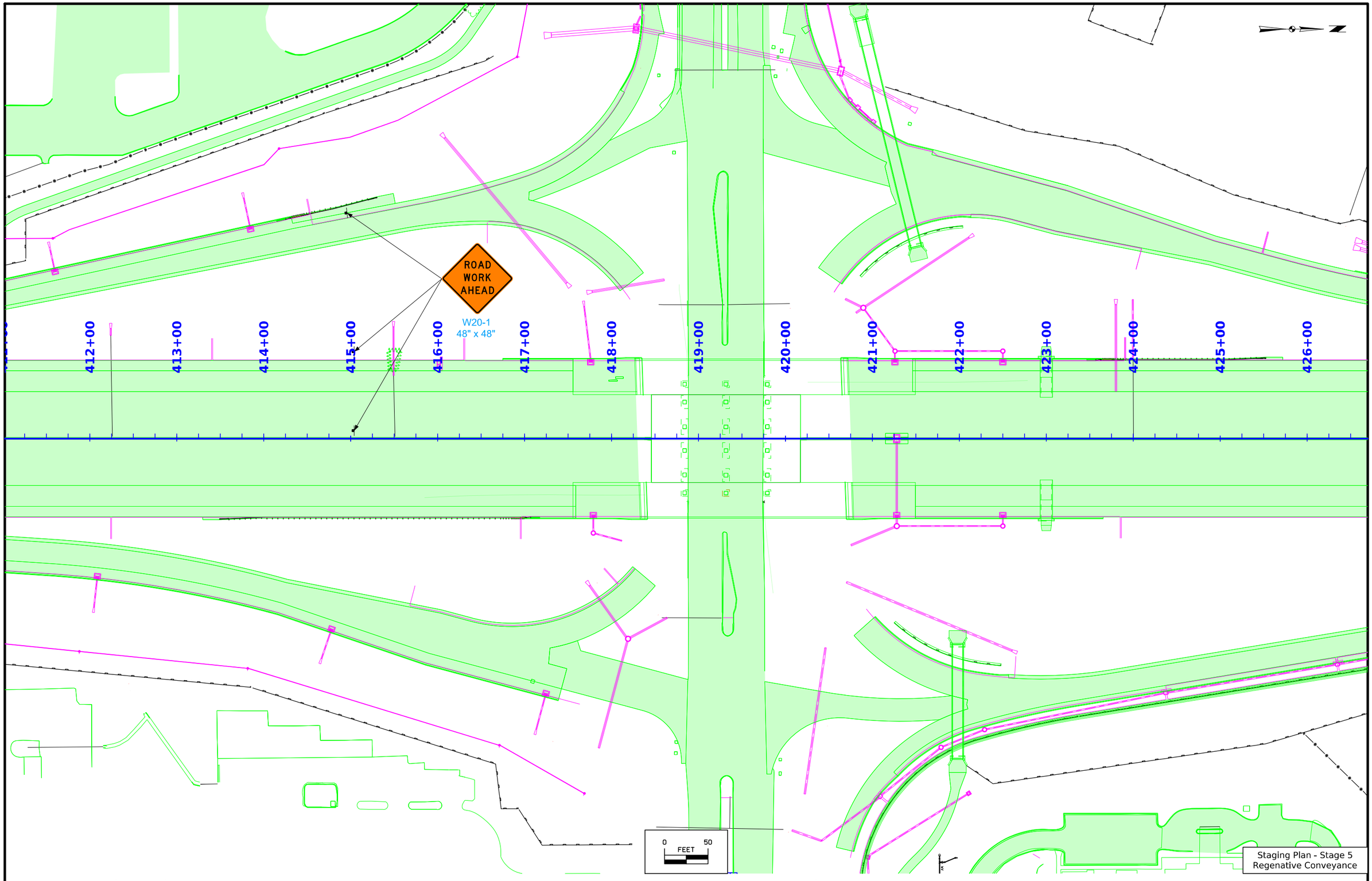
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Staging Plan - Stage 5
Regenative Conveyance

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER J.502	

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V2



FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER J.503

4:53:10 PM 7/6/2026 choover pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\7708006015\Design_(274)_US6 GradePave\CADD_Files\Sheet_Files\SHT_77080274Z08_J500.dgn

V2

WALNUT TWP.
T-79N R-25W
SEC. 29
City of Urbandale

656+00
657+00
658+00
659+00
660+00
661+00
662+00
663+00
664+00
665+00
666+00
667+00
668+00
669+00
670+00
671+00

CHY1C
ELW4
ELY4
CLW6
SLW2
BLW4
SLW4
ELW4
RTAW
RTAW
ELY4
DLW4

STA: 659+36.40
OFF: 17.80' LT

STA: 662+36.60
OFF: 19.00' LT

STA: 663+98.18
OFF: 6.00' LT

STA: 667+32.40
OFF: 63.00' LT

STA: 1669+75.49
OFF: 28.00' LT

STA: 1671+31.84
OFF: 28.00' LT

STA: 657+18.28
OFF: 2.82' RT

U.S. 6 / Hickman Road

STA: 657+85.48
OFF: 33.00' RT

STA: 659+36.53
OFF: 51.95' RT

STA: 662+36.65
OFF: 64.00' RT

STA: 664+15.27
OFF: 64.00' RT

STA: 2668+09.80
OFF: 36.00' RT

STA: 2669+39.14
OFF: 41.65' RT

STA: 2669+52.66
OFF: 14.10' RT

STA: 2669+52.84
OFF: 27.14' RT

STA: 2671+41.24
OFF: 41.99' RT

STA: 2671+74.54
OFF: 28.00' RT

10'
11'
11'
11'
12'
12'
12'
12'

WALNUT TWP.
T-79N R-25W
SEC. 32
City of Clive

0 FEET 50

Final Pavement Markings
U.S. Hwy 6 (Hickman Road)

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER J.600	

4:51:31 PM 7/6/2026 choover pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\7708006015\Design_(274)_US6 GradePave\CADD_Files\Sheet_Files\SHT_77080274Z08_J600.dgn

V2

WALNUT TWP.
T-79N R-25W
SEC. 29
City of Urbandale

WALNUT TWP.
T-79N R-25W
SEC. 28
City of Urbandale

U.S. 6 / Hickman Road

1-80/35 SB/WB

1-80/35 NB/EB

WALNUT TWP.
T-79N R-25W
SEC. 32
City of Clive

WALNUT TWP.
T-79N R-25W
SEC. 33
City of Clive

0 50 FEET

Final Pavement Markings
U.S. Hwy 6 (Hickman Road)

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER J.601

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V2

WALNUT TWP.
T-79N R-25W
SEC. 28
CIty of Urbandale

687+00
688+00
689+00
690+00
691+00
692+00
693+00
694+00
695+00
696+00
697+00
698+00
699+00
700+00
701+00
702+00

BLW4
ELW4
SLW4
ELY4
CSRW
SLW2
LTAW
CLW6
CHY10
NPY6
RTAW

STA: 691+06.19
OFF: 85.33' LT
STA: 690+54.77
OFF: 47.52' LT
STA: 1694+59.75
OFF: 36.00' LT
STA: 697+99.23
OFF: 34.57' LT
STA: 699+83.01
OFF: 39.90' LT
STA: 701+41.60
OFF: 20.00' LT
STA: 691+28.83
OFF: 81.39' RT
STA: 2688+02.11
OFF: 35.85' RT
STA: 690+62.82
OFF: 59.00' RT
STA: 693+85.58
OFF: 11.00' RT
STA: 1692+79.80
OFF: 23.34' RT
STA: 692+30.01
OFF: 47.00' RT
STA: 698+19.91
OFF: 45.09' RT
STA: 697+87.37
OFF: 18.57' RT
STA: 702+13.34
OFF: 28.30' RT

12'
13'

U.S. 6 / Hickman Road
Frontage Road
111th Street

0 FEET 50

WALNUT TWP.
T-79N R-25W
SEC. 33
City of Clive

Final Pavement Markings
U.S. Hwy 6 (Hickman Road)

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER J.602	

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V2

WALNUT TWP.
T-79N R-25W
SEC. 32
City of Clive

STA: 5409+52.42
OFF: 0.96' LT

STA: 5415+98.39
OFF: 12.00' LT

STA: 5415+68.92
OFF: 12.00' RT

12'

RLW6

DLW4

BLW4

RLY4

1-80/35 SB/WB

1-80/35 NB/EB

U.S. 6 / Hickman Road

Ramp B

STA: 4414+25.97
OFF: 24.00' LT

STA: 4414+15.97
OFF: 24.00' LT

STA: 4414+15.97
OFF: 0.58' LT

STA: 4414+26.00
OFF: 0.58' LT

STA: 4416+05.97
OFF: 36.00' LT

STA: 4416+05.97
OFF: 12.00' RT

WALNUT TWP.
T-79N R-25W
SEC. 33
City of Clive

0 50
FEET

Final Pavement Markings
Ramp B

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER J.603	

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V2

WALNUT TWP.
T-79N R-25W
SEC, 29
City of Urbandale

Ramp A

1-80/35 SB/WB

1-80/35 NB/EB

U.S. 6 / Hickman Road

CHW'O

ELW4

RLY4

BLW4

SLW4

STA: 3423+04.31
OFF: 12.00' RT

STA: 3424+84.35
OFF: 0.58' LT

STA: 3424+84.31
OFF: 24.00' RT

STA: 3423+24.31
OFF: 35.75' LT

STA: 3422+53.82
OFF: 35.75' RT

STA: 6423+61.82
OFF: 12.00' LT

STA: 6427+12.24
OFF: 12.00' RT

STA: 6423+15.87
OFF: 12.00' RT

0 50 FEET

WALNUT TWP.
T-79N R-25W
SEC. 28
City of Urbandale

Final Pavement Markings
Ramp A

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER J.604

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V2

CURVE RPA006_2-1
Δ = 01°04'28.59" (RT)
T = 5.01'
L = 10.02'
R = 534.00'
E = 0.02'

CURVE RPA006_2-2
Δ = 78°56'35.07" (LT)
T = 164.70'
L = 275.56'
R = 200.00'
E = 59.09'

CURVE RPA006_1-1
Δ = 73°27'49.94" (RT)
T = 138.06'
L = 237.20'
R = 185.00'
E = 45.83'

CURVE RPA006_1-2
Δ = 38°55'01.75" (RT)
T = 35.33'
L = 67.92'
R = 100.00'
E = 6.06'

CURVE RPA006_1-3
Δ = 01°02'47.15" (LT)
T = 5.00'
L = 10.01'
R = 548.00'
E = 0.02'

WALNUT TWP.
T-79N R-25W
SEC. 29
City of Urbandale

POT STA 23421+54.02 (RPA006_2_(274))
= POT STA 3421+54.02 (RPA006_(274))

RADIUS POINT
CURVE RPA006_2
STA: 23418+68.45
OFF: 200.00' LT

Curve RPA006_2-1
Curve RPA006_2-2

POT STA 671+23.69 (SR006)
= POT STA 23418+58.44 (RPA006_2_(274))

POT STA 13422+63.82 (RPA006_1_(274))
= POT STA 3422+63.82 (RPA006_(274))

RADIUS POINT
CURVE RPA006_1
STA: 13422+53.82
OFF: 185.00' RT

Curve RPA006_1-1
Curve RPA006_1-2
Curve RPA006_1-3

POT STA 13419+38.68 (RPA006_1_(274))
= POT STA 3420+83.59 (RPA006_(274))

POT STA 672+88.80 (SR006)
= POT STA 3419+10.34 (RPA006_(274))

POT STA 16419+11.63 (RPD006_1_(274))
= POT STA 6420+75.74 (RPD006_(274))

POT STA 673+36.40 (SR006)
= POT STA 5419+62.81 (RPC006_(274))

POT STA 15419+87.36 (RPC006_1_(274))
= POT STA 5418+24.09 (RPC006_(274))

POT STA 14419+52.10 (RPB006_1_(274))
= POT STA 4418+15.98 (RPB006_(274))

POT STA 25420+10.48 (RPC006_2_(274))
= POT STA 5418+96.53 (RPC006_(274))

Curve RPC006_2-1
Curve RPC006_2-2

Curve RPC006_1-1
Curve RPC006_1-2

RADIUS POINT
CURVE RPC006_1
STA: 15416+69.09
OFF: 200.00' RT

RADIUS POINT
CURVE RPB006_1
STA: 14416+41.89
OFF: 185.00' LT

POT STA 15415+58.92 (RPC006_1_(274))
= POT STA 5415+58.92 (RPC006_(274))

POT STA 25415+88.39 (RPC006_2_(274))
= POT STA 5415+88.39 (RPC006_(274))

POT STA 14416+31.89 (RPB006_1_(274))
= POT STA 4416+31.89 (RPB006_(274))

CURVE RPC006_2-1
Δ = 07°01'17.99" (LT)
T = 61.35'
L = 122.55'
R = 1000.00'
E = 1.88'

RADIUS POINT
CURVE RPC006_2
STA: 25417+20.94
OFF: 200.00' LT

CURVE RPC006_2-2
Δ = 80°04'58.41" (LT)
T = 168.07'
L = 279.54'
R = 200.00'
E = 61.24'

CURVE RPC006_1-1
Δ = 88°18'33.65" (RT)
T = 194.18'
L = 308.26'
R = 200.00'
E = 78.76'

CURVE RPC006_1-2
Δ = 11°28'42.03" (RT)
T = 50.25'
L = 100.17'
R = 500.00'
E = 2.52'

WALNUT TWP.
T-79N R-25W
SEC. 32
City of Clive

U.S. 6 / Hickman Road

I-80 EXISTING S.B.

I-80 EXISTING N.B.

Ramp A
Ramp A_1
Ramp A_2
Ramp C_1
Ramp C_2
Ramp C
Ramp D
Ramp D_1
Ramp D_2
Ramp B
Ramp B_1
Ramp B_2

13422+00
13421+00
13420+00
23419+00
23420+00
23421+00
25420+00
25419+00
25418+00
25417+00
25416+00
15419+00
15418+00
15417+00
15416+00
14419+00
14418+00
14417+00
16423+00
16422+00
16421+00
16420+00
26423+00
26422+00
26421+00
26420+00
24420+00
24419+00
24418+00

POT STA 16423+71.82 (RPD006_1_(274))
= POT STA 6423+71.82 (RPD006_(274))

RADIUS POINT
CURVE RPD006_1
STA: 16419+21.63
OFF: 200.00' LT

Curve RPD006_1-1
Curve RPD006_1-2
Curve RPD006_1-3

POT STA 26423+25.87 (RPD006_2_(274))
= POT STA 6423+25.87 (RPD006_(274))

Curve RPD006_2-1
Curve RPD006_2-2
Curve RPD006_2-3

RADIUS POINT
CURVE RPD006_2
STA: 26419+15.25
OFF: 200.00' RT

POT STA 26419+05.24 (RPD006_2_(274))
= POT STA 6420+17.74 (RPD006_(274))

POT STA 680+14.42 (SR006)
= POT STA 6419+44.05 (RPD006_(274))

POT STA 679+99.29 (SR006)
= POT STA 4419+89.64 (RPB006_(274))

POT STA 4419+62.81 (RPB006_(274))
= POT STA 24420+58.19 (RPB006_2_(274))

Curve RPC006_2-1

RADIUS POINT
CURVE RPB006_2
STA: 24417+63.50
OFF: 200.00' RT

POT STA 4417+53.22 (RPB006_(274))
= POT STA 24417+53.22 (RPB006_2_(274))

CURVE RPD006_1-1
Δ = 01°02'43.94" (RT)
T = 5.00'
L = 10.00'
R = 548.00'
E = 0.02'

CURVE RPD006_1-2
Δ = 82°10'24.99" (LT)
T = 174.39'
L = 286.84'
R = 200.00'
E = 65.35'

CURVE RPD006_1-3
Δ = 17°34'22.61" (LT)
T = 77.28'
L = 153.35'
R = 500.00'
E = 5.94'

CURVE RPD006_2-1
Δ = 01°02'49.50" (LT)
T = 5.01'
L = 10.01'
R = 548.00'
E = 0.02'

CURVE RPD006_2-2
Δ = 79°39'32.72" (RT)
T = 166.81'
L = 278.06'
R = 200.00'
E = 60.43'

CURVE RPD006_2-3
Δ = 07°01'17.99" (RT)
T = 61.35'
L = 122.55'
R = 1000.00'
E = 1.88'

CURVE RPB006_1-1
Δ = 75°03'59.70" (LT)
T = 142.13'
L = 242.38'
R = 185.00'
E = 48.29'

CURVE RPB006_1-2
Δ = 33°08'01.34" (LT)
T = 29.75'
L = 57.83'
R = 100.00'
E = 4.33'

CURVE RPB006_1-3
Δ = 01°03'04.67" (RT)
T = 5.00'
L = 10.00'
R = 545.00'
E = 0.02'

CURVE RPB006_2-1
Δ = 81°33'28.98" (RT)
T = 172.51'
L = 284.69'
R = 200.00'
E = 64.12'

WALNUT TWP.
T-79N R-25W
SEC. 28
City of Urbandale

WALNUT TWP.
T-79N R-25W
SEC. 33
City of Clive

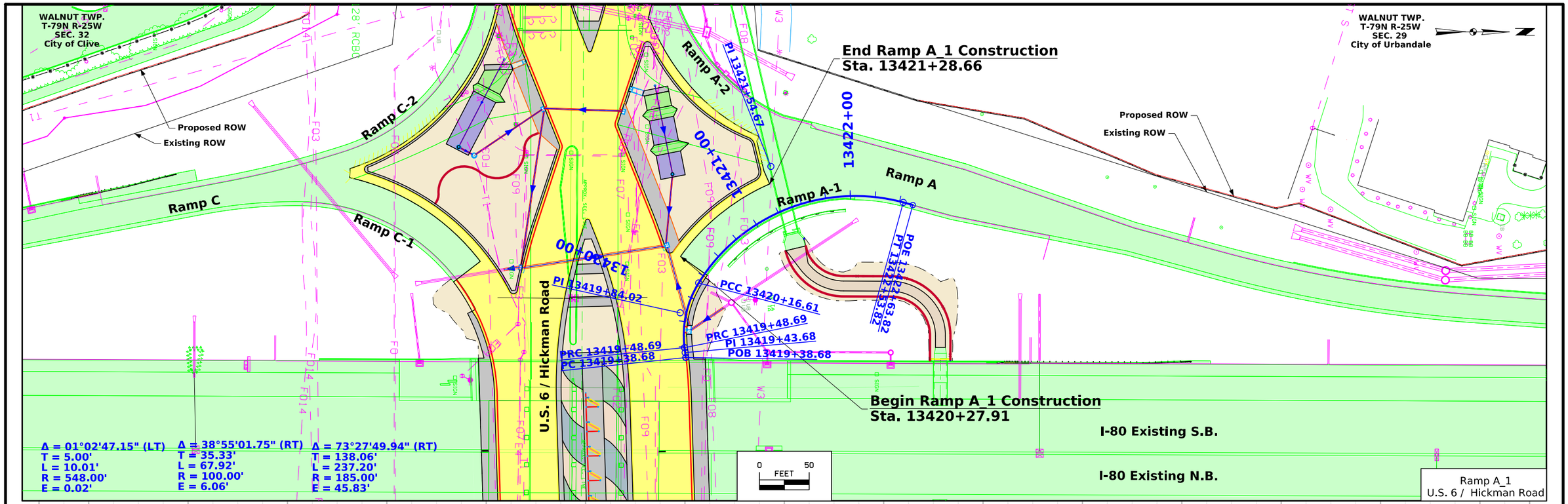
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FEET

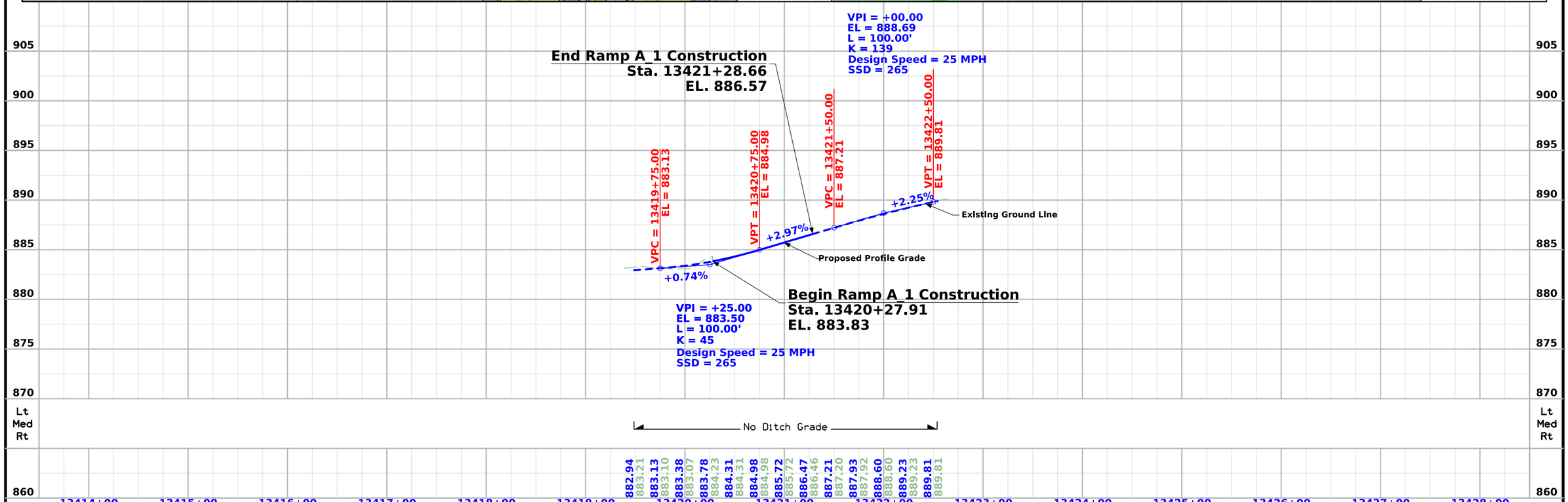
Geometric Plan
Proposed Interchange
of U.S. Hwy 6 (Hickman
Road) with Interstate 80
Polk County

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER K.1	

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V2

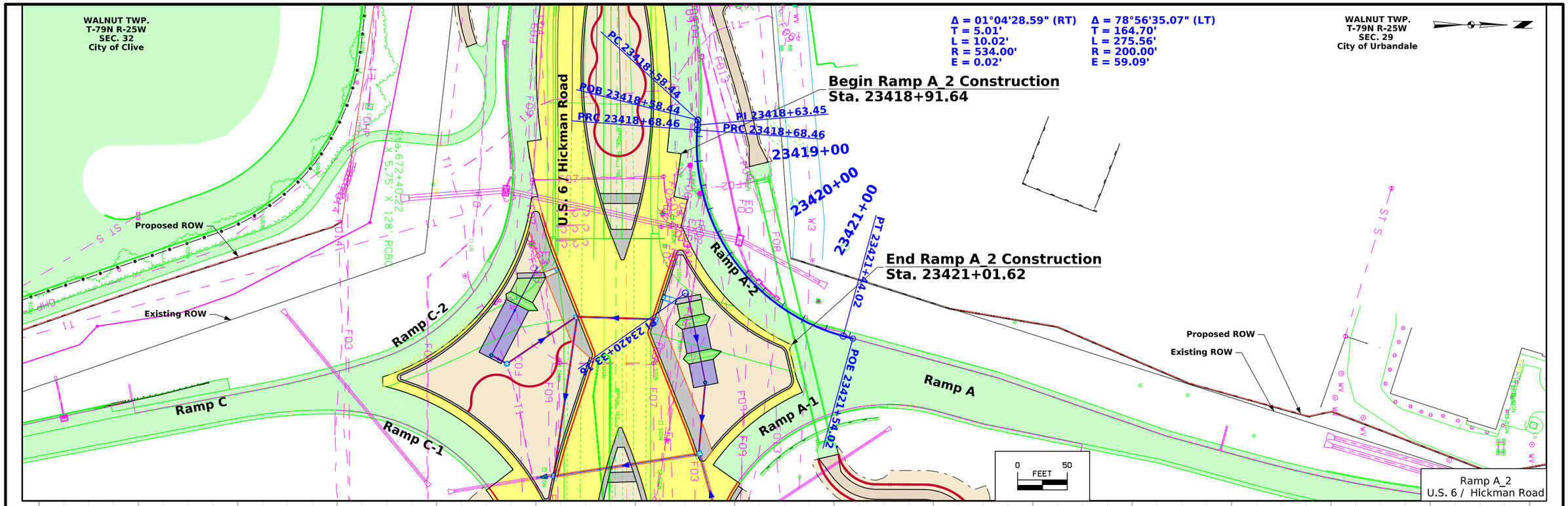




FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER K.2

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V2



FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER K.3

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V2

WALNUT TWP.
T-79N R-25W
SEC. 32
City of Clive

WALNUT TWP.
T-79N R-25W
SEC. 29
City of Urbandale

I-80 Existing S.B.

I-80 Existing N.B.

U.S. 6 / Hickman Road

End Ramp B_1 Construction
Sta. 14418+51.94

PI 14419+47.10
POE 14419+53.10
PCC 14419+52.10
PRC 14419+42.10
PRC 14418+84.27
PI 14419+14.02

14418+00
14419+00
14417+00

PC 14416+41.89
POB 14416+31.89

Proposed ROW
Existing ROW

Ramp B
Ramp B-1
Ramp B-2
Ramp D-1
Ramp D
Ramp D-2

Begin Ramp B_1 Construction
Sta. 14417+28.33

PI 14418+22.84.02

Proposed ROW
Existing ROW

Ramp B_1
U.S. 6 / Hickman Road

Δ = 75°03'59.70" (LT)
T = 142.13'
L = 242.38'
R = 185.00'
E = 48.29'

Δ = 01°03'04.67" (RT)
T = 5.00'
L = 10.00'
R = 545.00'
E = 0.02'

Δ = 33°08'01.34" (LT)
T = 29.75'
L = 57.83'
R = 100.00'
E = 4.33'

0 FEET 50

VPI = +26.00
EL = 879.08
L = 160.00'
K = 27
Design Speed = 25 MPH
SSD = 242

Begin Ramp B_1 Construction
Sta. 14417+28.33
EL. 882.84

VPC = 14417+46.00
EL = 882.16

VPT = 14419+06.00
EL = 880.72

-3.85%
+2.05%

Proposed Profile Grade
Existing Ground LIne

VLP = 14418+50.32
EL = 880.15

End Ramp B_1 Construction
Sta. 14418+51.94
EL. 880.15

No Ditch Grade

Lt	885.26	884.58	883.81	882.97	882.01	881.20	880.62	880.27	880.15	880.26	880.61	880.94	881.23
Med	885.26	884.57	883.81	882.96	882.01	881.20	880.62	880.27	880.15	880.15	880.61	881.06	880.67
Rt													

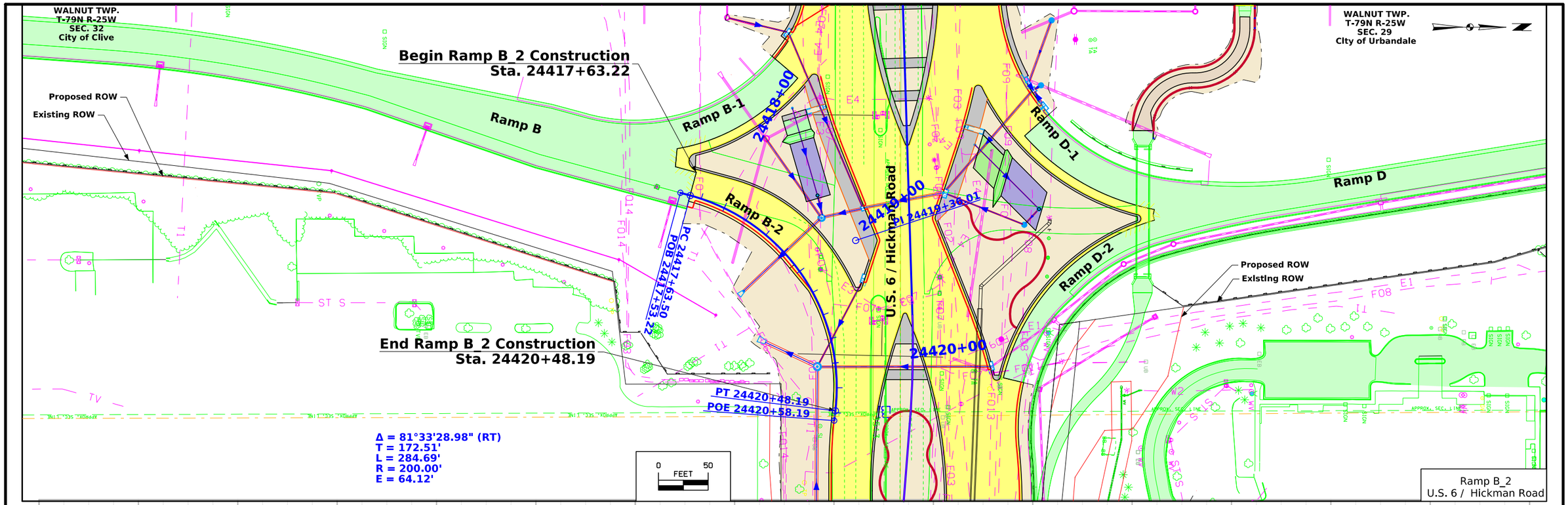
895 890 885 880 875 870 865 860 850

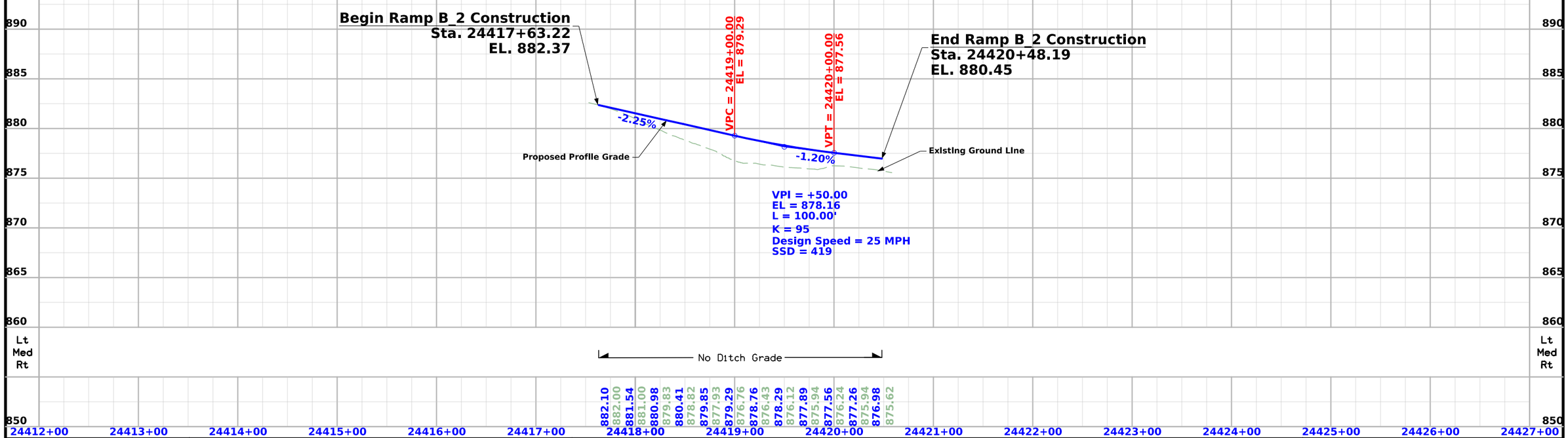
14411+00 14412+00 14413+00 14414+00 14415+00 14416+00 14417+00 14418+00 14419+00 14420+00 14421+00 14422+00 14423+00 14424+00 14425+00

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER K.4

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V2

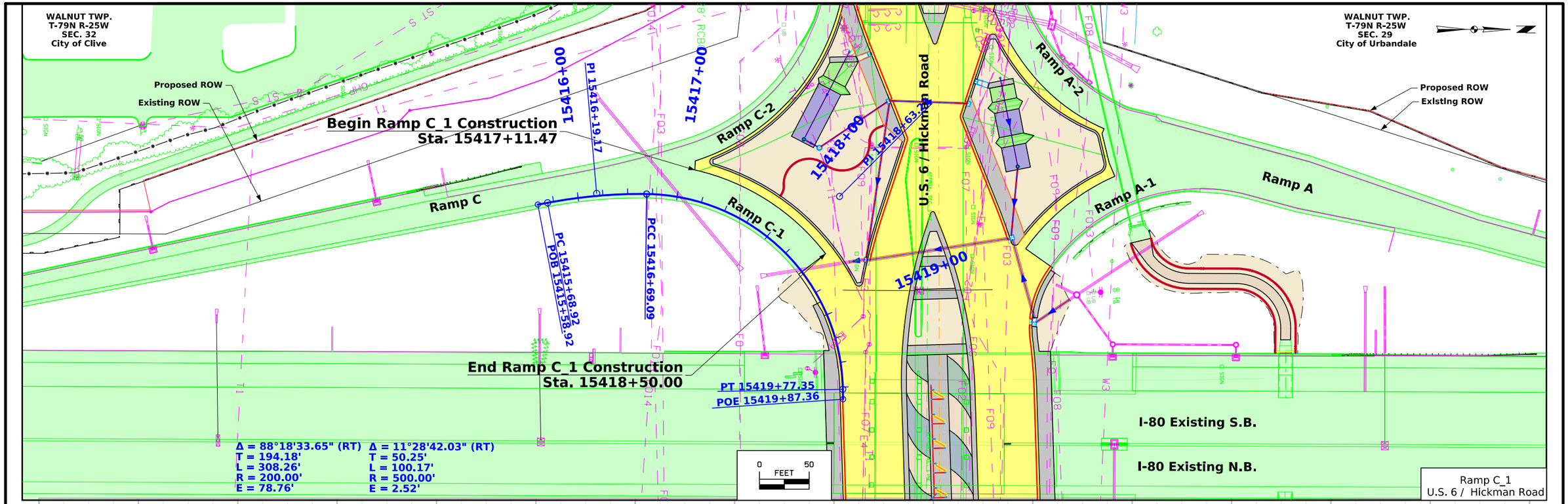


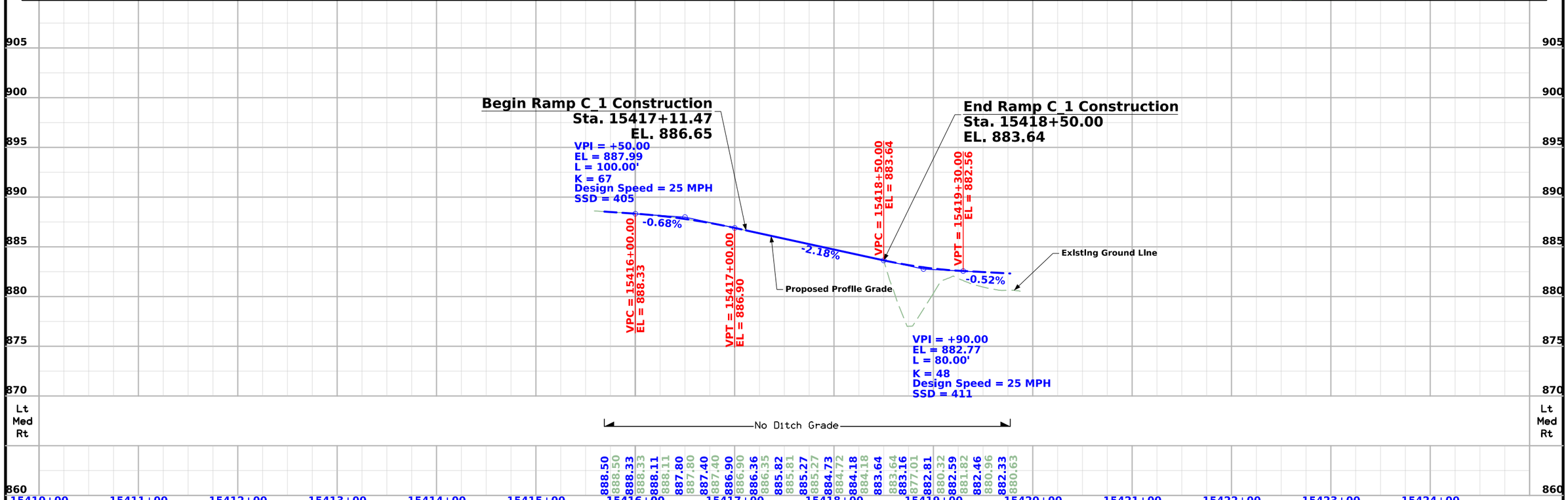


FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER K.5

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V2





FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER K.6

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V2

WALNUT TWP.
T-79N R-25W
SEC. 32
City of Clive

Δ = 07°01'17.99" (LT)
T = 61.35'
L = 122.55'
R = 1000.00'
E = 1.88'

Δ = 80°04'58.41" (LT)
T = 168.07'
L = 279.54'
R = 200.00'
E = 61.24'

End Ramp C_2 Construction
Sta. 25419+48.34

Begin Ramp C_2 Construction
Sta. 25417+20.86

Proposed ROW
Existing ROW

25420+00
25419+00
25418+00
25417+00
25416+00

PCC 25417+20.94

U.S. 6 / Hickman Road

POE 25420+10.48
PT 25420+00.48

PI 25418+89.01

Ramp C
Ramp C-1
Ramp C-2
Ramp A-1
Ramp A-2
Ramp A

PC 25415+98.39
POB 25415+88.39

PI 25416+59.74

WALNUT TWP.
T-79N R-25W
SEC. 29
City of Urbandale

Proposed ROW
Existing ROW

0 FEET 50

Ramp C_2
U.S. 6 / Hickman Road

Begin Ramp C_2 Construction
Sta. 25417+20.86
EL. 887.02

VPC = 25417+50.00
EL = 886.82

VPT = 25419+50.00
EL = 888.43

End Ramp C_2 Construction
Sta. 25419+48.34
EL. 888.39

-0.68%
+2.29%

Proposed Profile Grade
Existing Ground Line

VLP = 25417+95.94
EL = 886.67

VPI = +50.00
EL = 886.14
L = 200.00'
K = 67
Design Speed = 25 MPH
SSD = 319

No Ditch Grade

905 900 895 890 885 880 875 870 860

Lt Med Rt

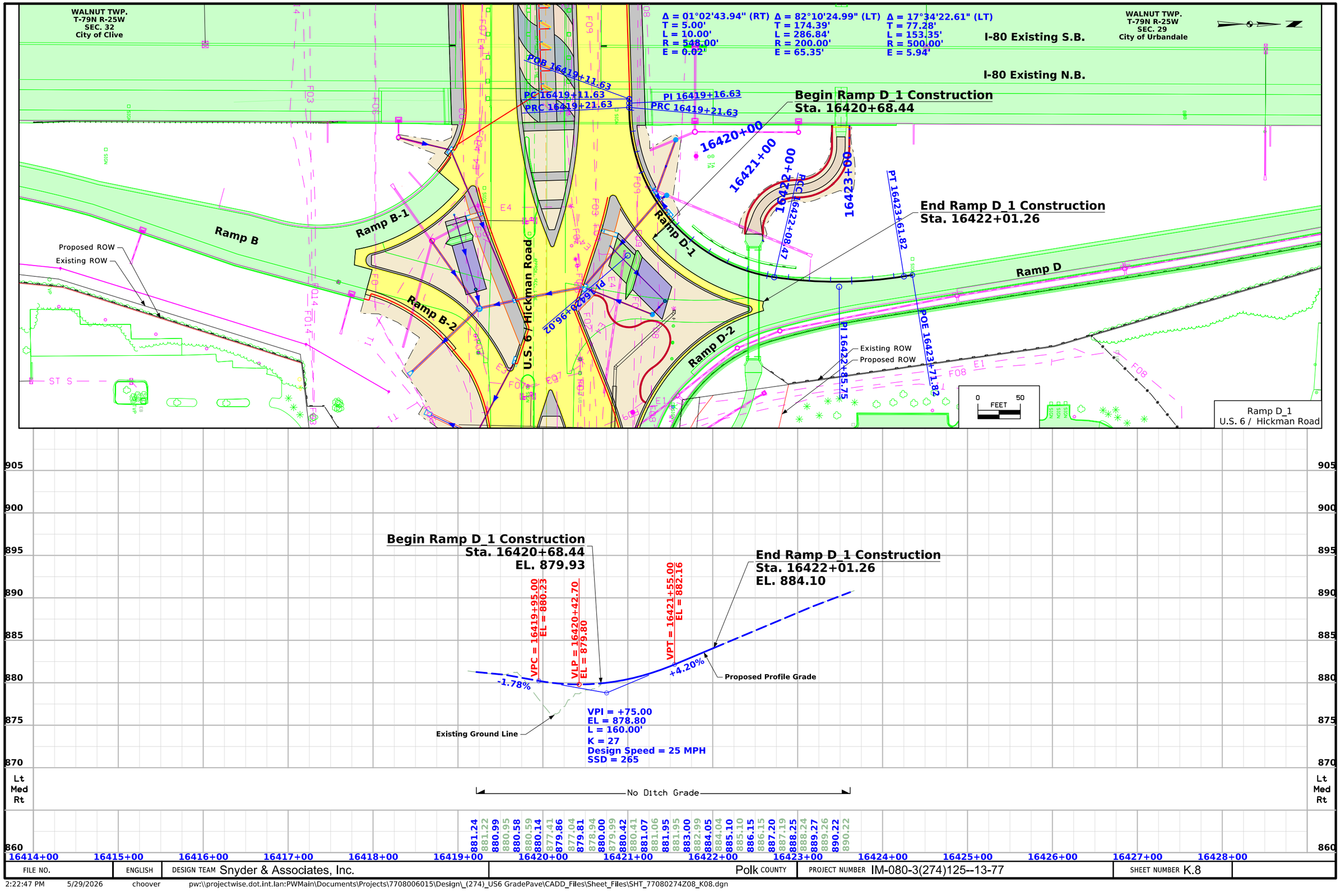
887.85 887.85 887.68 887.68 887.51 887.51 887.34 887.33 887.17 887.16 886.99 886.99 886.82 886.82 886.70 886.70 886.67 886.66 886.73 886.73 886.88 886.88 887.13 887.13 887.47 887.47 887.91 887.90 888.43 888.43 889.01 889.01 889.58 889.58

25411+00 25412+00 25413+00 25414+00 25415+00 25416+00 25417+00 25418+00 25419+00 25420+00 25421+00 25422+00 25423+00 25424+00 25425+00 25426+00

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER K.7

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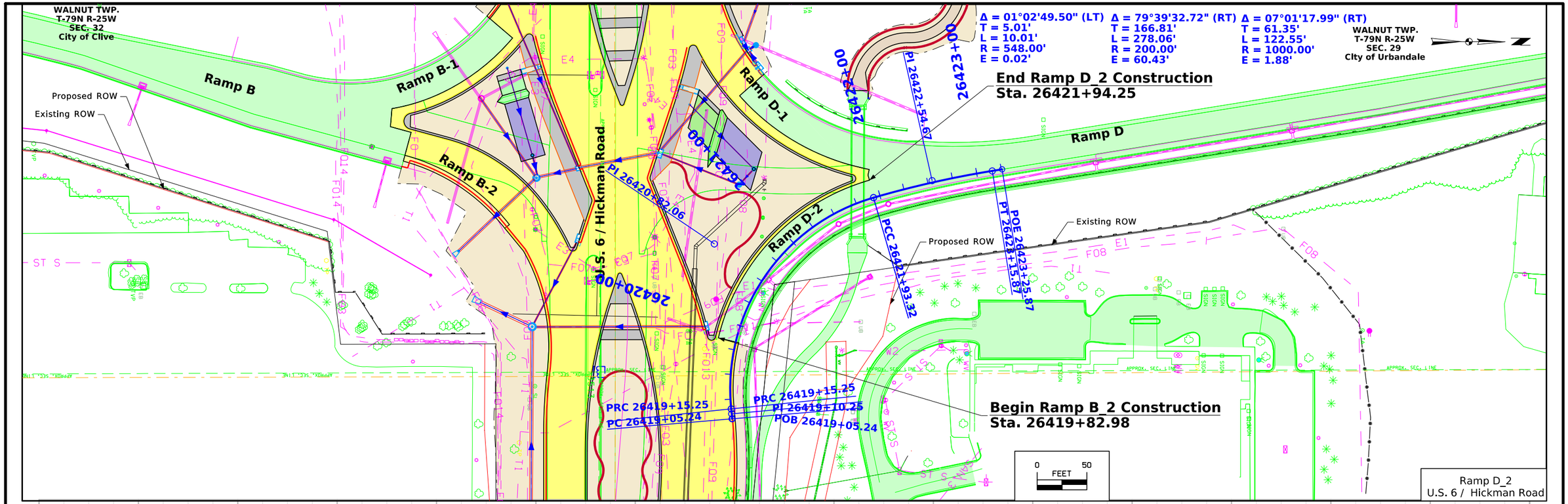
V2

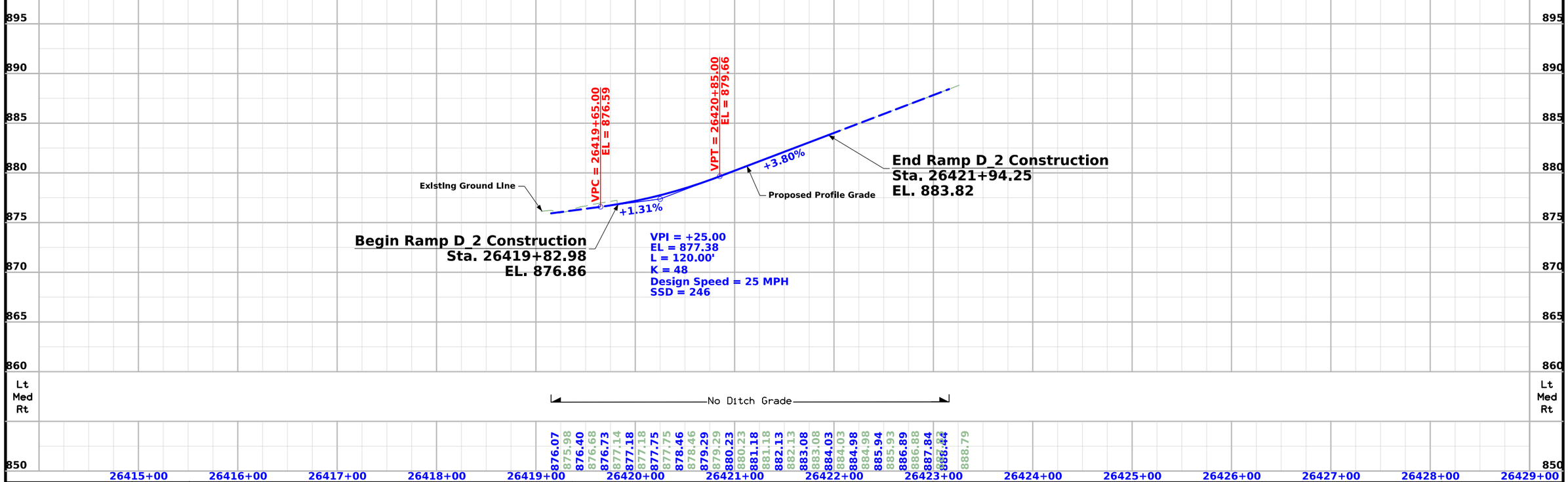


FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER K.8

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V2





FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER K.9

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V2

PLAN VIEW COLOR LEGEND OF JOINTING SHEETS

Design Color No.	Feature
(1)	Proposed Alignment, Stationing, Tic Marks, and Alignment Annotation
(55)	B Joint
(71)	C Joint
(77)	CD Joint
(76)	CT Joint
(76)	DW Joint
(76)	HT Joint
(77)	RD Joint
(76)	RT Joint
(130)	CF-1 Joint
(130)	CF-2 Joint
(130)	CF-3 Joint
(130)	CF-4 Joint
(72)	E Joint
(142)	ED Joint
(142)	EE Joint
(142)	EFJoint
(72)	ES Joint
(64)	BT-1 Joint
(64)	BT-2 Joint
(128)	BT-3 Joint
(128)	BT-4 Joint
(128)	BT-5 Joint
(79)	K Joint
(70)	KS-1 Joint
(70)	KS-2 Joint
(143)	KT-1 Joint
(143)	KT-2 Joint
(143)	KT-3 Joint
(138)	L-1 Joint
(138)	L-2 Joint
(138)	L-3 Joint

JOINTING NOTES:

All longitudinal joints shall be either KT-2 or L-2 unless indicated otherwise.

All transverse joints shall be CD joints with a maximum 17' spacing unless indicated otherwise,

If a joint length is 2', a C joint shall be used instead of a CD joint.

Refer to Typical 7101 for details of paved header.

Refer to Typicals 7154A and 7154B for paved shoulder details.

GEOMETRICS AND STAKING NOTES:

Refer to Appropriate Standard Road Plans for Additional Information.

Refer to G Sheets for Horizontal Alignment Information.

JOINTING AND GEOMETRICS LEGEND AND INFORMATION SHEET

(COVERS SHEET SERIES L)

WALNUT TWP.
T-79N R-25W
SEC. 29
City of Urbandale

657+00 658+00 659+00 660+00 661+00 662+00

U.S. 6 / Hickman Road

STA: 657+07.85
OFF: 22.00' LT
ELV: XXX

STA: 657+18.25
OFF: 2.49' RT
ELV: 927.74

1.0%
20.5'

Constant Slope

STA: 657+07.85
OFF: 2.46' RT
ELV: XXX

STA: 657+07.85
OFF: 5.54' RT
ELV: XXX

STA: 657+07.85
OFF: 10.50' RT
ELV: XXX

STA: 657+28.90
OFF: 5.55' RT
ELV: 927.63

STA: 659+36.50
OFF: 15.00' LT
ELV: 923.31

STA: 659+36.65
OFF: 11.00' LT
ELV: 923.71

2.0%
7.0'

STA: 658+54.21
OFF: 1.00' RT
ELV: XXX

STA: 658+54.21
OFF: 10.50' RT
ELV: XXX

STA: 662+47.00
OFF: 22.00' LT
ELV: XXX
Radius Point
Curve Radius 2'
STA: 662+38.65
OFF: 13.00' LT
Radius Point
STA: 662+36.65
OFF: 15.00' LT

2.5%
14.0'

1.0%
9.0'

Construct Ramped Median Nose.
Refer to PV-104

Radius Point
STA: 662+36.65
OFF: 11.00' LT

STA: 662+47.00
OFF: 8.00' LT
ELV: XXX

STA: 662+47.00
OFF: 1.00' RT
ELV: XXX

Notes:
Dimensions Shown Are To The Edge Of Pavement.

Refer To G Sheets For Horizontal Alignment Information.

Refer To Appropriate Standard Road Plans For Additional Information.

WALNUT TWP.
T-79N R-25W
SEC. 32
City of Clive

0 20
FEET

Geometric & Staking Details
U.S. Hwy 6 (Hickman Road)

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER L.2	

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V2

WALNUT TWP.
T-79N R-25W
SEC. 29
City of Urbandale

657+00
658+00
659+00
660+00
661+00
662+00

U.S. 6 / Hickman Road

WALNUT TWP.
T-79N R-25W
SEC. 32
City of Clive

Notes:
All Traverse Joints Shall Be CD Joints With A Maximum 17' Spacing Unless Indicated Otherwise.

If A Joint Length Is 2', A C Joint Shall Be Used Instead Of A CD Joint.

Refer To Standard Road Plans For Details Of Paved Header, If Applicable.

Refer To Standard Road Plan PV-1 For Additional Details.

Refer To Standard Road Plans For Additional Jointing Details Around Physical Feature.

0 20
FEET

Jointing Details
U.S. Hwy 6 (Hickman Road)

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER L.3	

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V2

WALNUT TWP.
T-79N R-25W
SEC. 29
City of Urbandale

663+00 664+00 665+00 666+00 667+00 668+00

STA: 666+83.96
OFF: 41.00' LT
ELV: 902.26
STA: 666+83.96
OFF: 30.00' LT
ELV: 902.54
STA: 666+83.96
OFF: 19.03' LT
ELV: 902.76
STA: 666+83.96
OFF: 6.00' LT
ELV: 902.93
STA: 666+50.00
OFF: 52.00' LT
ELV: 902.98
STA: 666+50.00
OFF: 43.00' LT
ELV: 903.25

STA: 666+83.98
OFF: 52.00' LT
ELV: 901.93

STA: 667+26.04
OFF: 52.00' LT
ELV: 900.84

STA: 667+26.04
OFF: 41.00' LT
ELV: 901.17
STA: 667+26.04
OFF: 30.00' LT
ELV: 901.44
STA: 667+26.04
OFF: 19.03' LT
ELV: 901.66
STA: 667+26.04
OFF: 6.00' LT
ELV: 901.79
STA: 667+65.24
OFF: 63.91' LT
ELV: 899.96
STA: 667+65.05
OFF: 60.92' LT
ELV: 899.56
STA: 667+65.05
OFF: 52.00' LT
ELV: 899.82

STA: 666+50.00
OFF: 30.00' LT
ELV: 903.42
STA: 666+50.00
OFF: 19.04' LT
ELV: 903.56
STA: 666+50.00
OFF: 6.00' LT
ELV: 903.73
STA: 666+50.00
OFF: 0.90' RT
ELV: 903.81
STA: 666+50.00
OFF: 3.91' RT
ELV: 903.85

STA: 663+71.00
OFF: 0.00' RT
ELV: 911.31

Radius Point
STA: 664+53.61
OFF: 9.00' RT
Radius Point
Curve Radius 2'
STA: 664+51.61
OFF: 11.00' RT

Construct Ramped Median Nose.
Refer to PV-104

U.S. 6 / Hickman Road

Uniform Transition
Constant Slope

STA: 667+26.04
OFF: 1.16' LT
ELV: 901.84

STA: 663+71.00
OFF: 6.00' RT
ELV: 911.32
STA: 663+71.00
OFF: 9.00' RT
ELV: 911.33

STA: 664+42.00
OFF: 9.00' RT
ELV: 909.48
STA: 664+42.00
OFF: 20.00' RT
ELV: xxx
Radius Point
STA: 664+53.61
OFF: 13.00' RT

STA: 665+73.61
OFF: 9.00' RT
ELV: 906.57

STA: 666+50.00
OFF: 13.00' RT
ELV: 903.61
STA: 666+50.00
OFF: 16.00' RT
ELV: 903.57
STA: 666+50.00
OFF: 20.00' RT
ELV: 903.52
STA: 666+50.00
OFF: 31.00' RT
ELV: 903.38

STA: 666+50.00
OFF: 43.00' RT
ELV: 903.23

STA: 666+50.00
OFF: 46.00' RT
ELV: 903.14
STA: 666+84.02
OFF: 13.00' RT
FG ELV: 902.84
STA: 666+84.02
OFF: 16.00' RT
ELV: 903.33
STA: 666+84.02
OFF: 28.00' RT
ELV: 902.54
STA: 666+84.02
OFF: 40.00' RT
ELV: 902.24
STA: 666+84.02
OFF: 46.00' RT
ELV: 902.06

STA: 666+83.96
OFF: 1.64' RT
ELV: 902.96

STA: 667+88.24
OFF: 13.00' RT
ELV: 900.13
STA: 667+88.24
OFF: 28.00' RT
ELV: 899.83
STA: 667+88.24
OFF: 40.00' RT
ELV: 899.53
STA: 667+88.24
OFF: 46.00' RT
ELV: 899.35
STA: 667+98.98
OFF: 40.00' RT
ELV: 899.25
STA: 667+98.98
OFF: 52.00' RT
ELV: 898.89
STA: 667+98.98
OFF: 67.00' RT
ELV: 898.44

Notes:
Dimensions Shown Are To The Edge Of Pavement.

Refer To G Sheets For Horizontal Alignment Information.

Refer To Appropriate Standard Road Plans For Additional Information.

WALNUT TWP.
T-79N R-25W
SEC. 32
City of Clive

0 20
FEET

Geometric & Staking Details
U.S. Hwy 6 (Hickman Road)

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER L.4

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V2

WALNUT TWP.
T-79N R-25W
SEC. 29
City of Urbandale

663+00 664+00 665+00 666+00 667+00 668+00

U.S. 6 / Hickman Road

BT-4 Joint Necessary Due to Staging Requirements.

BT-4 Joint Necessary Due to Staging Requirement

Notes:
All Longitudinal Joints Shall be L-2 Unless Indicated Otherwise.

All Traverse Joints Shall Be CD Joints With A Maximum 17' Spacing Unless Indicated Otherwise.

If A Joint Length Is 2', A C Joint Shall Be Used Instead Of A CD Joint.

Refer To Standard Road Plans For Details Of Paved Header, If Applicable.

Refer To Standard Road Plan PV-1 For Additional Details.

Refer To Standard Road Plans For Additional Jointing Details Around Physical Feature.

WALNUT TWP.
T-79N R-25W
SEC. 32
City of Clive

0 FEET 20

Jointing Details
U.S. Hwy 6 (Hickman Road)

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER L.5

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V2

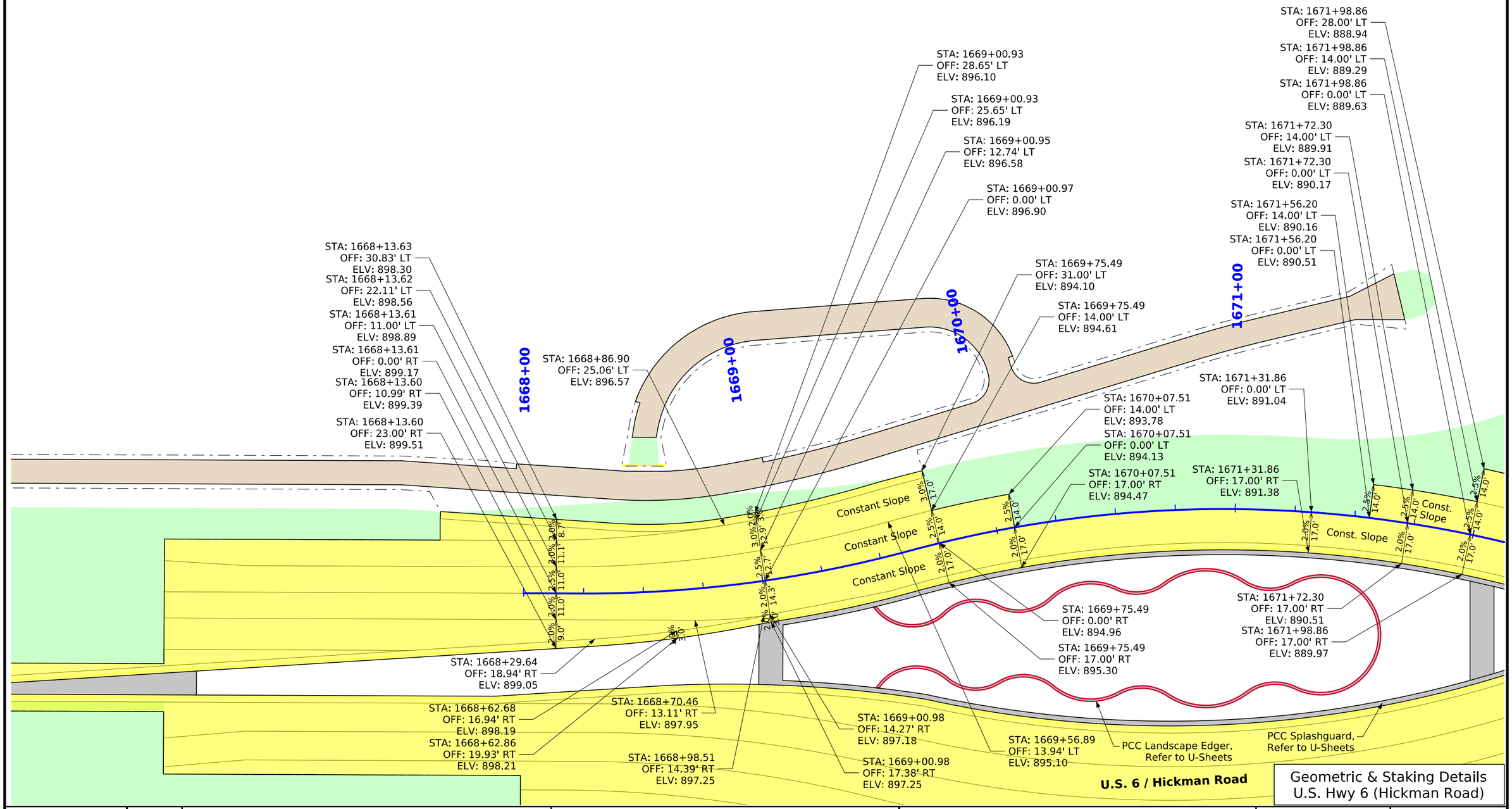
Notes:
Dimensions Shown Are To The Edge Of Pavement.

Refer To G Sheets For Horizontal Alignment Information.

Refer To Appropriate Standard Road Plans For Additional Information.

WALNUT TWP.
T-79N R-25W
SEC. 29
City of Urbandale

0 FEET 20



Geometric & Staking Details
U.S. Hwy 6 (Hickman Road)

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER L.6

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V2

Notes:
All Longitudinal Joints Shall be L-2 Unless Indicated Otherwise.

All Traverse Joints Shall Be CD Joints With A Maximum 17' Spacing Unless Indicated Otherwise.

If A Joint Length Is 2', A C Joint Shall Be Used Instead Of A CD Joint.

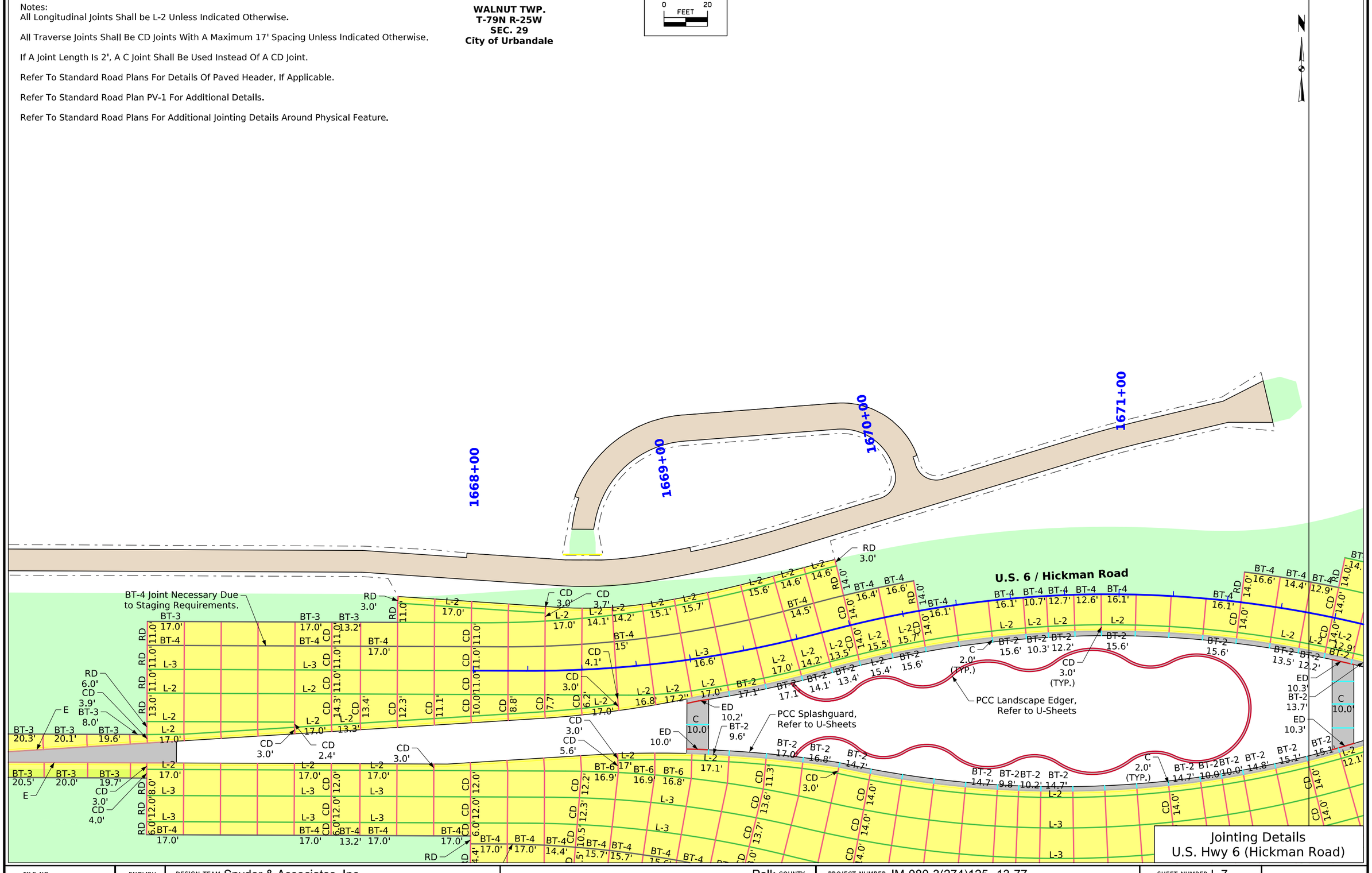
Refer To Standard Road Plans For Details Of Paved Header, If Applicable.

Refer To Standard Road Plan PV-1 For Additional Details.

Refer To Standard Road Plans For Additional Jointing Details Around Physical Feature.

WALNUT TWP.
T-79N R-25W
SEC. 29
City of Urbandale

0 FEET 20



FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER L.7

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V2

Notes:
Dimensions Shown Are To The Edge Of Pavement.

Refer To G Sheets For Horizontal Alignment Information.

Refer To Appropriate Standard Road Plans For Additional Information.

WALNUT TWP.
T-79N R-25W
SEC. 29
City of Urbandale

0 20 FEET

STA: 1673+07.13
OFF: 169.56' LT
ELV: 888.26

STA: 1673+01.95
OFF: 170.03' LT
ELV: 888.32

STA: 2674+58.03
OFF: 150.60' LT
ELV: 887.53
STA: 2674+69.21
OFF: 151.24' LT
ELV: 887.26

STA: 2675+14.74
OFF: 28.00' LT
ELV: 883.88
STA: 2675+14.74
OFF: 14.00' LT
ELV: 884.23
STA: 2675+14.74
OFF: 0.00' RT
ELV: 884.58
STA: 2675+14.74
OFF: 14.00' RT
ELV: 884.93

STA: 2675+39.74
OFF: 28.00' LT
ELV: 883.44
STA: 2675+39.74
OFF: 14.00' LT
ELV: 883.86
STA: 2675+39.74
OFF: 0.00' RT
ELV: 884.28

STA: 2675+88.51
OFF: 31.00' LT
ELV: 882.83
STA: 2675+88.51
OFF: 14.00' LT
ELV: 883.34
STA: 2675+88.51
OFF: 0.00' LT
ELV: 883.72
STA: 2675+88.51
OFF: 14.00' RT
ELV: 884.11
STA: 2675+88.51
OFF: 31.00' RT
ELV: 884.45

STA: 2678+00.00
OFF: 14.00' LT
ELV: 881.40
STA: 2677+95.98
OFF: 14.00' LT
ELV: 881.43
STA: 2678+00.00
OFF: 0.00' LT
ELV: 881.75
STA: 2678+00.00
OFF: 14.00' RT
ELV: 882.10
STA: 2677+74.99
OFF: 14.00' LT
ELV: 881.57
STA: 2677+61.81
OFF: 31.00' LT
ELV: 881.18

STA: 2677+61.81
OFF: 0.00' LT
ELV: 882.11

STA: 2675+31.67
OFF: 65.06' LT
ELV: 884.35
STA: 2675+28.36
OFF: 61.71' LT
ELV: 884.25
STA: 2675+26.62
OFF: 63.93' LT
FG ELV: 883.80
STA: 2675+24.61
OFF: 61.96' LT
ELV: 883.83

STA: 2675+12.12
OFF: 50.45' LT
ELV: 884.01
STA: 2675+03.53
OFF: 42.96' LT
ELV: 884.13

STA: 2674+96.94
OFF: 37.42' LT
ELV: 884.22

STA: 2674+89.74
OFF: 31.00' LT
ELV: 884.27

STA: 2674+89.74
OFF: 14.00' LT
ELV: 884.61

STA: 2674+89.74
OFF: 0.00' RT
ELV: 884.89

STA: 1672+26.31
OFF: 30.00' LT
ELV: 888.52

STA: 1672+26.31
OFF: 28.00' LT
ELV: 888.57

STA: 1672+72.30
OFF: 31.00' LT
ELV: 887.98

STA: 1672+22.30
OFF: 28.00' LT
ELV: 888.62

STA: 1672+72.30
OFF: 14.00' LT
ELV: 888.15

STA: 1672+72.30
OFF: 0.00' LT
ELV: 888.29

STA: 1672+72.30
OFF: 17.00' RT
ELV: 888.64

STA: 1672+22.30
OFF: 17.00' RT
ELV: 889.52

STA: 2674+39.74
OFF: 0.00' LT
ELV: 885.58

STA: 2674+39.74
OFF: 14.00' RT
ELV: 885.72

STA: 2674+89.74
OFF: 14.00' RT
ELV: 885.17

STA: 2674+89.74
OFF: 31.00' RT
ELV: 885.51

STA: 2677+75.00
OFF: 0.00' RT
ELV: 881.99

STA: 2677+61.81
OFF: 14.00' RT
ELV: 882.46

STA: 2677+61.81
OFF: 31.00' RT
ELV: 882.80

STA: 2677+75.00
OFF: 14.03' RT
ELV: 882.34

STA: 2677+75.01
OFF: 31.00' RT
ELV: 882.68

STA: 2678+00.00
OFF: 31.00' RT
ELV: 882.44

1672+00
1673+00
1674+00
1675+00
1676+00
1677+00
1678+00
2674+92
2675+00
2676+00
2677+00
2678+00

PCC Splashguard, Refer to U-Sheets
PCC Maintenance Pad
Special Shaping
Uniform Transition
Uniform Trans.
Constant Slope
Const. Slope
Colored Concrete Median, Refer to U-Sheets
Radius Point
STA: 1672+72.30
OFF: 17.00' RT
Radius Point
STA: 1672+73.59
OFF: 20.53' RT
Radius Point
Curve Radius 2'
STA: 1672+74.18
OFF: 18.32' RT
Radius Point
STA: 2674+39.74
OFF: 31.00' RT
Radius Point
Curve Radius 2'
STA: 2674+37.86
OFF: 32.32' RT
Radius Point
STA: 2674+38.45
OFF: 34.53' RT

U.S. 6 / Hickman Road

Geometric & Staking Details
U.S. Hwy 6 (Hickman Road)

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER L.8

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V2

Notes:
All Longitudinal Joints Shall be L-2 Unless Indicated Otherwise.

All Traverse Joints Shall Be CD Joints With A Maximum 17' Spacing Unless Indicated Otherwise.

If A Joint Length Is 2', A C Joint Shall Be Used Instead Of A CD Joint.

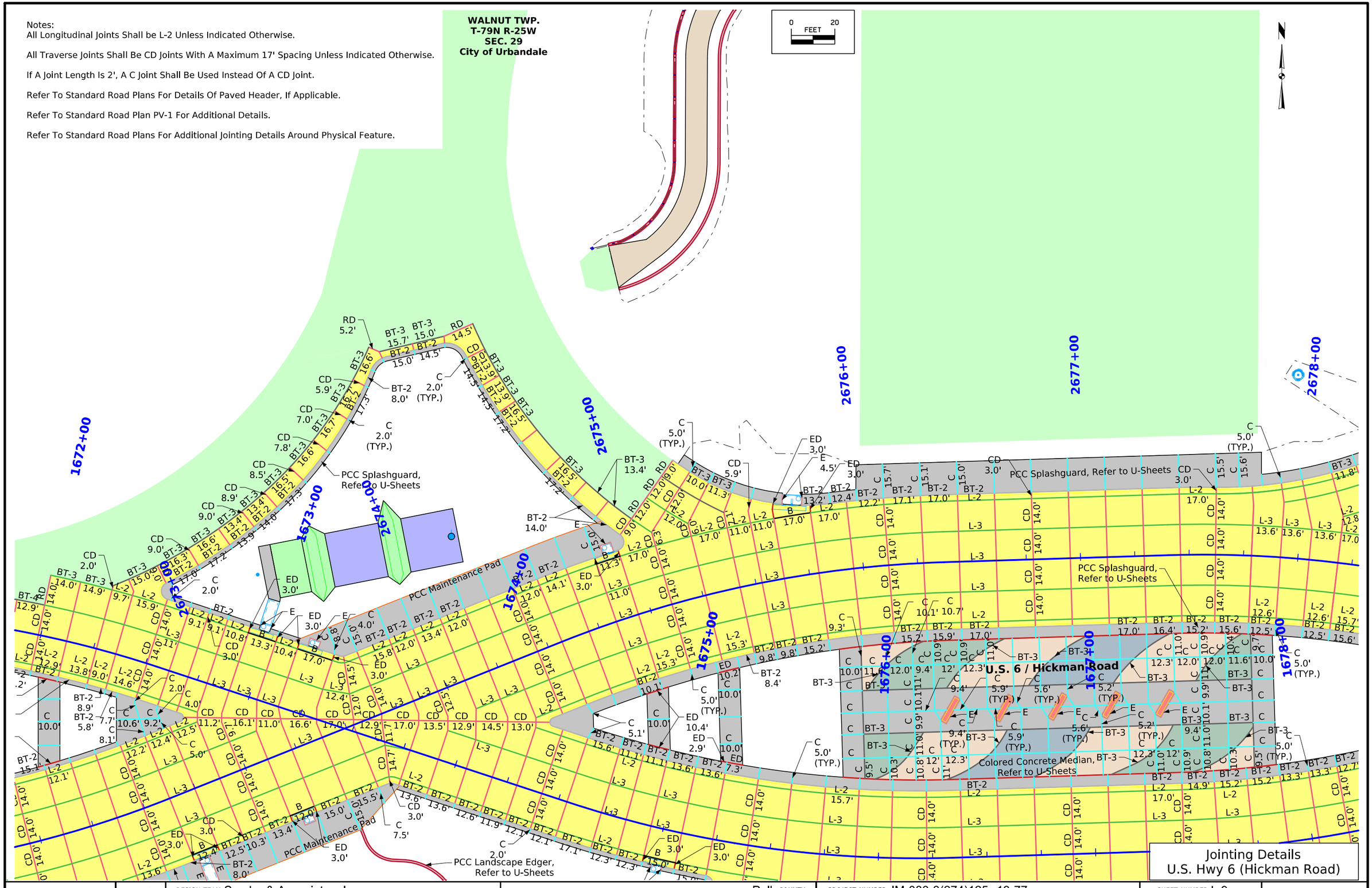
Refer To Standard Road Plans For Details Of Paved Header, If Applicable.

Refer To Standard Road Plan PV-1 For Additional Details.

Refer To Standard Road Plans For Additional Jointing Details Around Physical Feature.

WALNUT TWP.
T-79N R-25W
SEC. 29
City of Urbandale

0 FEET 20



Jointing Details
U.S. Hwy 6 (Hickman Road)

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER L.9

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V2

0 FEET 20

WALNUT TWP.
T-79N R-25W
SEC. 28
City of Urbandale

Notes:
Dimensions Shown Are To The Edge Of Pavement.

Refer To G Sheets For Horizontal Alignment Information.

Refer To Appropriate Standard Road Plans For Additional Information.

STA: 2678+73.95
OFF: 96.08' LT
ELV: 879.80

STA: 2678+76.02
OFF: 94.34' LT
ELV: 879.92

STA: 2678+88.65
OFF: 84.12' LT
ELV: 880.28

STA: 2678+97.32
OFF: 77.52' LT
ELV: 880.52

STA: 2679+03.94
OFF: 72.67' LT
ELV: 880.70

STA: 2679+23.39
OFF: 224.02' LT
ELV: 884.19

STA: 2679+29.18
OFF: 224.65' LT
ELV: 884.21

STA: 2679+33.48
OFF: 227.59' LT
ELV: 884.17

STA: 2679+33.57
OFF: 209.93' LT
ELV: 883.77

STA: 2679+40.70
OFF: 212.70' LT
ELV: 883.67

STA: 2678+25.00
OFF: 14.00' LT
ELV: 881.24

STA: 2678+40.55
OFF: 58.03' LT
ELV: 879.90

STA: 2678+42.10
OFF: 55.57' LT
ELV: 879.96

STA: 1680+94.84
OFF: 31.00' LT
ELV: 878.64

STA: 1680+94.84
OFF: 14.00' LT
ELV: 878.81

STA: 1680+94.84
OFF: 0.00' LT
ELV: 878.94

STA: 1680+94.84
OFF: 14.00' RT
ELV: 879.09

STA: 1681+44.84
OFF: 31.00' LT
FG ELV: 877.81

STA: 1681+44.84
OFF: 14.00' LT
ELV: 878.15

STA: 1681+44.84
OFF: 0.00' LT
ELV: 878.43

STA: 1681+92.96
OFF: 60.01' LT
ELV: 876.80

STA: 1681+69.84
OFF: 31.00' LT
ELV: 877.37

STA: 1681+83.16
OFF: 38.55' LT
FG ELV: 877.23

STA: 1681+69.84
OFF: 14.00' LT
ELV: 877.80

STA: 1681+94.84
OFF: 28.00' LT
ELV: 877.09

STA: 1681+69.84
OFF: 0.00' LT
ELV: 878.15

STA: 1681+94.84
OFF: 14.00' LT
ELV: 877.51

STA: 1681+94.84
OFF: 14.00' RT
ELV: 878.14

STA: 1681+94.84
OFF: 31.00' RT
ELV: 878.31

STA: 1682+51.57
OFF: 45.00' LT
ELV: 875.85

STA: 1682+51.57
OFF: 28.00' LT
ELV: 876.36

STA: 1682+51.57
OFF: 14.00' LT
ELV: 876.78

STA: 1682+51.57
OFF: 0.00' LT
ELV: 877.13

STA: 1682+51.57
OFF: 14.00' RT
ELV: 877.41

STA: 1683+95.14
OFF: 42.00' LT
ELV: 874.85

PCC Splashguard,
Refer to U-Sheets

PCC Landscape Edger,
Refer to U-Sheets

STA: 2678+50.00
OFF: 14.00' LT
ELV: 881.07

STA: 2678+50.00
OFF: 0.00' LT
ELV: 881.28

STA: 2678+75.00
OFF: 17.00' LT
ELV: 880.87

STA: 2678+50.00
OFF: 14.00' RT
ELV: 881.49

STA: 2678+75.00
OFF: 0.00' LT
ELV: 881.04

STA: 2678+75.00
OFF: 14.00' RT
ELV: 881.18

STA: 2679+38.07
OFF: 17.00' LT
ELV: 880.30

STA: 2678+75.00
OFF: 31.00' RT
ELV: 881.35

STA: 2679+38.07
OFF: 0.00' RT
ELV: 880.44

STA: 2679+38.07
OFF: 14.00' RT
ELV: 880.58

STA: 2678+25.00
OFF: 0.00' LT
ELV: 881.52

STA: 2678+25.00
OFF: 14.00' RT
ELV: 881.80

STA: 2678+25.00
OFF: 31.00' RT
ELV: 882.14

STA: 1680+94.84
OFF: 31.00' RT
ELV: 879.26

STA: 1681+44.84
OFF: 14.00' RT
ELV: 878.71

STA: 1681+44.84
OFF: 31.00' RT
ELV: 878.88

STA: 1682+51.57
OFF: 31.00' RT
ELV: 877.58

Radius Point
STA: 2679+38.07
OFF: 31.00' RT

Radius Point
Curve Radius 2'
STA: 2679+39.95
OFF: 32.32' RT

Radius Point
STA: 2679+39.36
OFF: 34.53' RT

Radius Point
STA: 1680+94.84
OFF: 31.00' RT

Radius Point
Curve Radius 2'
STA: 1680+92.96
OFF: 32.32' RT

Radius Point
STA: 1680+93.56
OFF: 34.53' RT

2678+00
2679+00
1680+00
1679+00
1681+00
1682+00
1683+00
1684+00
2680+00
2681+00
2682+00
2683+00
2684+00

SPECIAL SHAPING
CONSTANT SLOPE
Special Shaping
Constant Slope
Const. Slope
Uniform Trans.
Uniform Transition
PCC Maintenance Pad

U.S. 6 / Hickman Road

Geometric & Staking Details
U.S. Hwy 6 (Hickman Road)

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER L.10

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V2

0 FEET 20

WALNUT TWP.
T-79N R-25W
SEC. 28
City of Urbandale

Notes:
All Longitudinal Joints Shall L-2 Unless Indicated Otherwise.

All Traverse Joints Shall Be CD Joints With A Maximum 17' Spacing Unless Indicated Otherwise.

If A Joint Length Is 2', A C Joint Shall Be Used Instead Of A CD Joint.

Refer To Standard Road Plans For Details Of Paved Header, If Applicable.

Refer To Standard Road Plan PV-1 For Additional Details.

Refer To Standard Road Plans For Additional Jointing Details Around Physical Feature.

BT-2 Joint Between Back of Curb and Splashguard (Typical)

PCC Splashguard, Refer to U-Sheets

PCC Landscape Edger, Refer to U-Sheets

RD Joint Necessary Due to Staging Requirements

PCC Maintenance Pad

BT-3 Joint Necessary Due to Staging Requirement

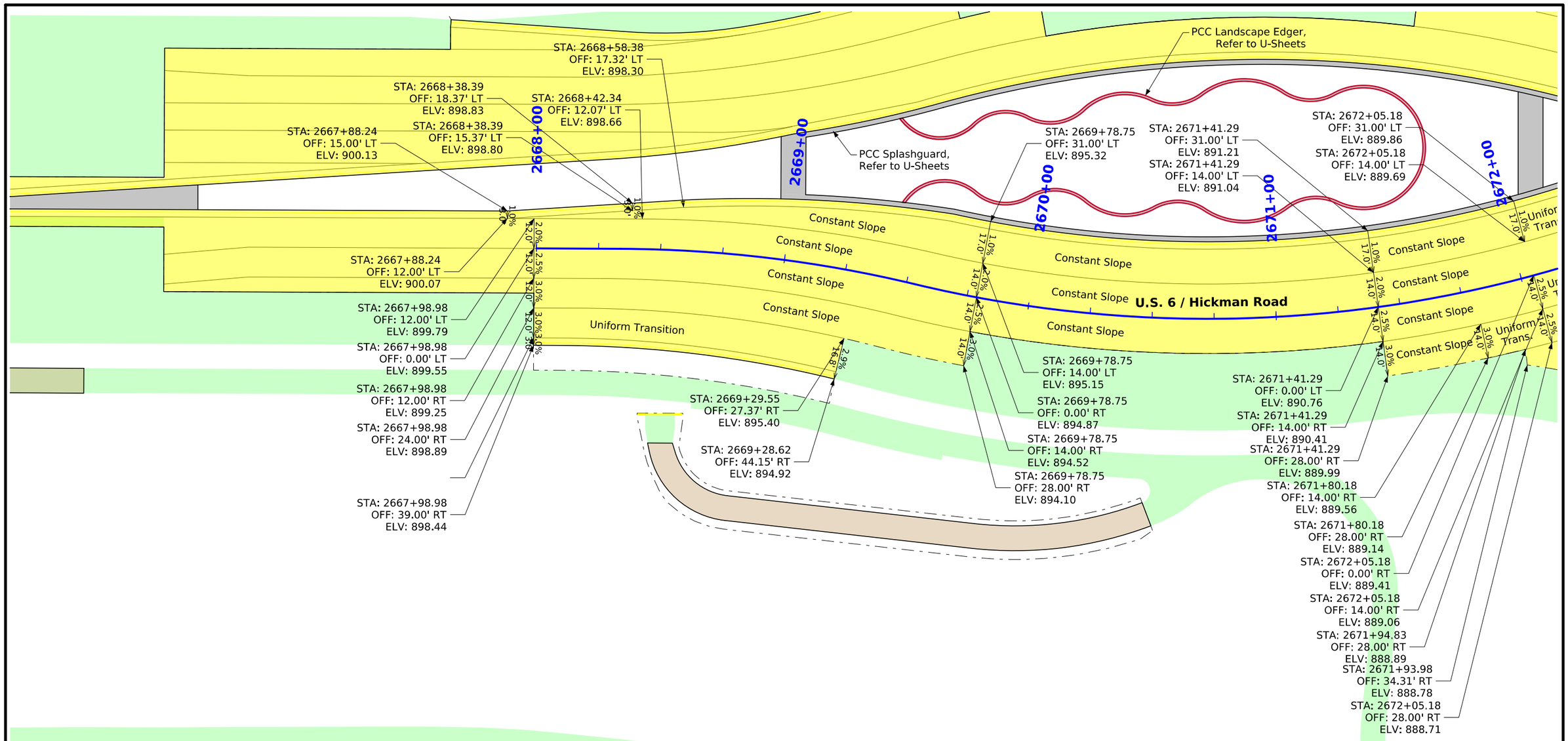
U.S. 6 / Hickman Road

Jointing Details
U.S. Hwy 6 (Hickman Road)

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER L.11

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V2



Notes:
Dimensions Shown Are To The Edge Of Pavement.

Refer To G Sheets For Horizontal Alignment Information.

Refer To Appropriate Standard Road Plans For Additional Information.

0 FEET 20

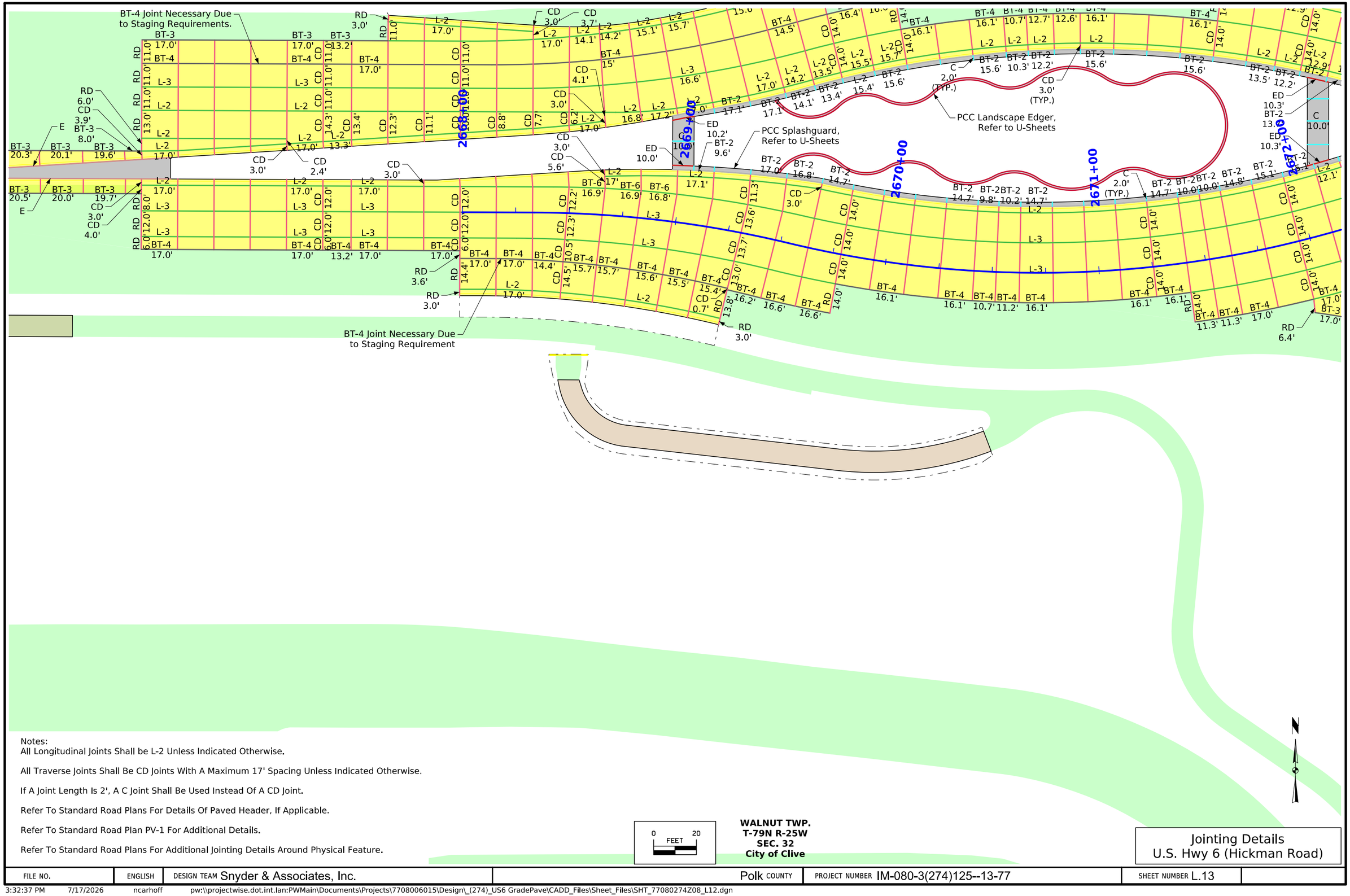
WALNUT TWP.
T-79N R-25W
SEC. 32
City of Clive

Geometric & Staking Details
U.S. Hwy 6 (Hickman Road)

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER L.12

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V2



Notes:
All Longitudinal Joints Shall be L-2 Unless Indicated Otherwise.

All Traverse Joints Shall Be CD Joints With A Maximum 17' Spacing Unless Indicated Otherwise.

If A Joint Length Is 2', A C Joint Shall Be Used Instead Of A CD Joint.

Refer To Standard Road Plans For Details Of Paved Header, If Applicable.

Refer To Standard Road Plan PV-1 For Additional Details.

Refer To Standard Road Plans For Additional Jointing Details Around Physical Feature.

0 20 FEET

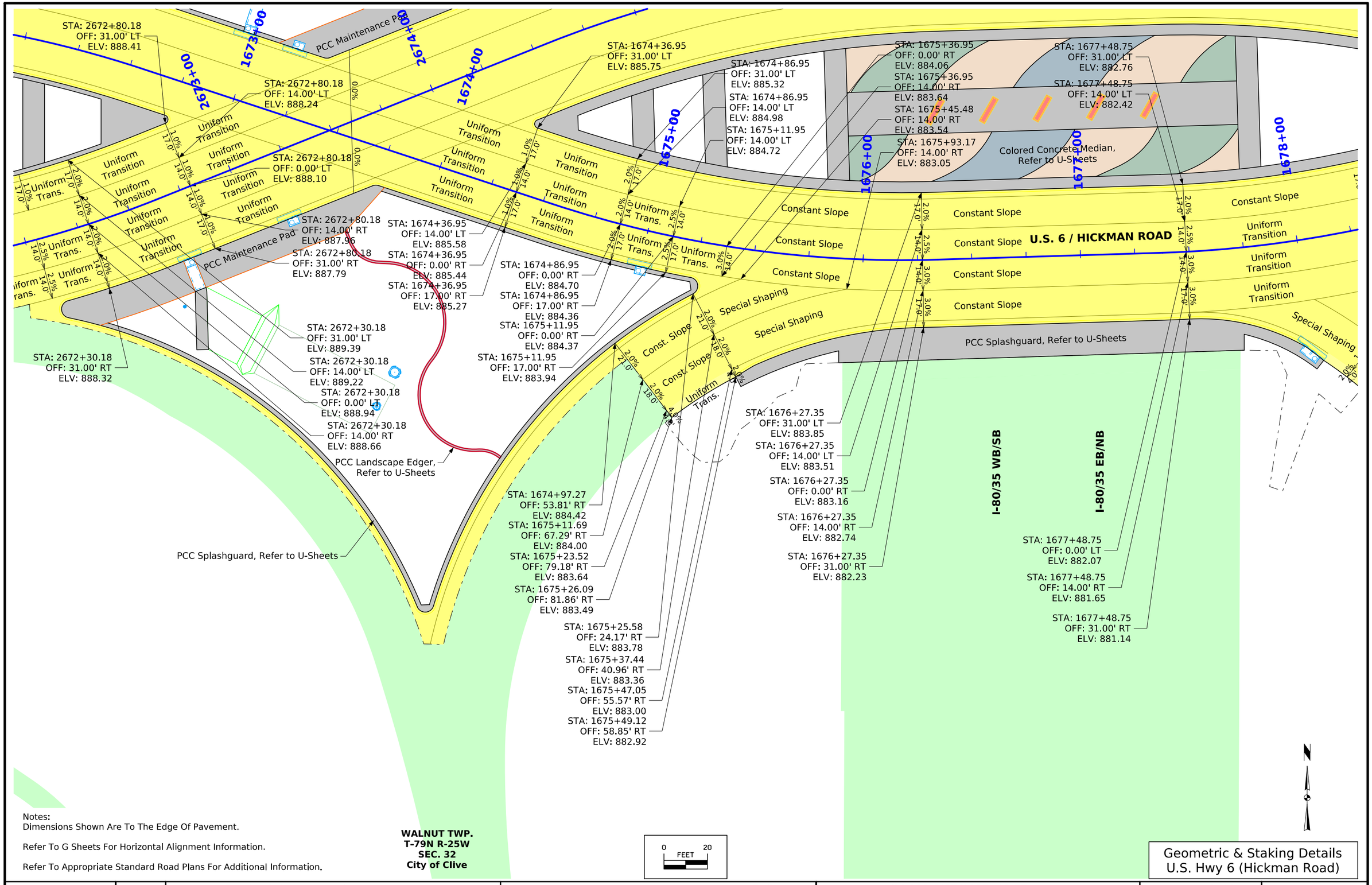
WALNUT TWP.
T-79N R-25W
SEC. 32
City of Clive

Jointing Details
U.S. Hwy 6 (Hickman Road)

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER L.13

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V2



Notes:
Dimensions Shown Are To The Edge Of Pavement.

Refer To G Sheets For Horizontal Alignment Information.

Refer To Appropriate Standard Road Plans For Additional Information.

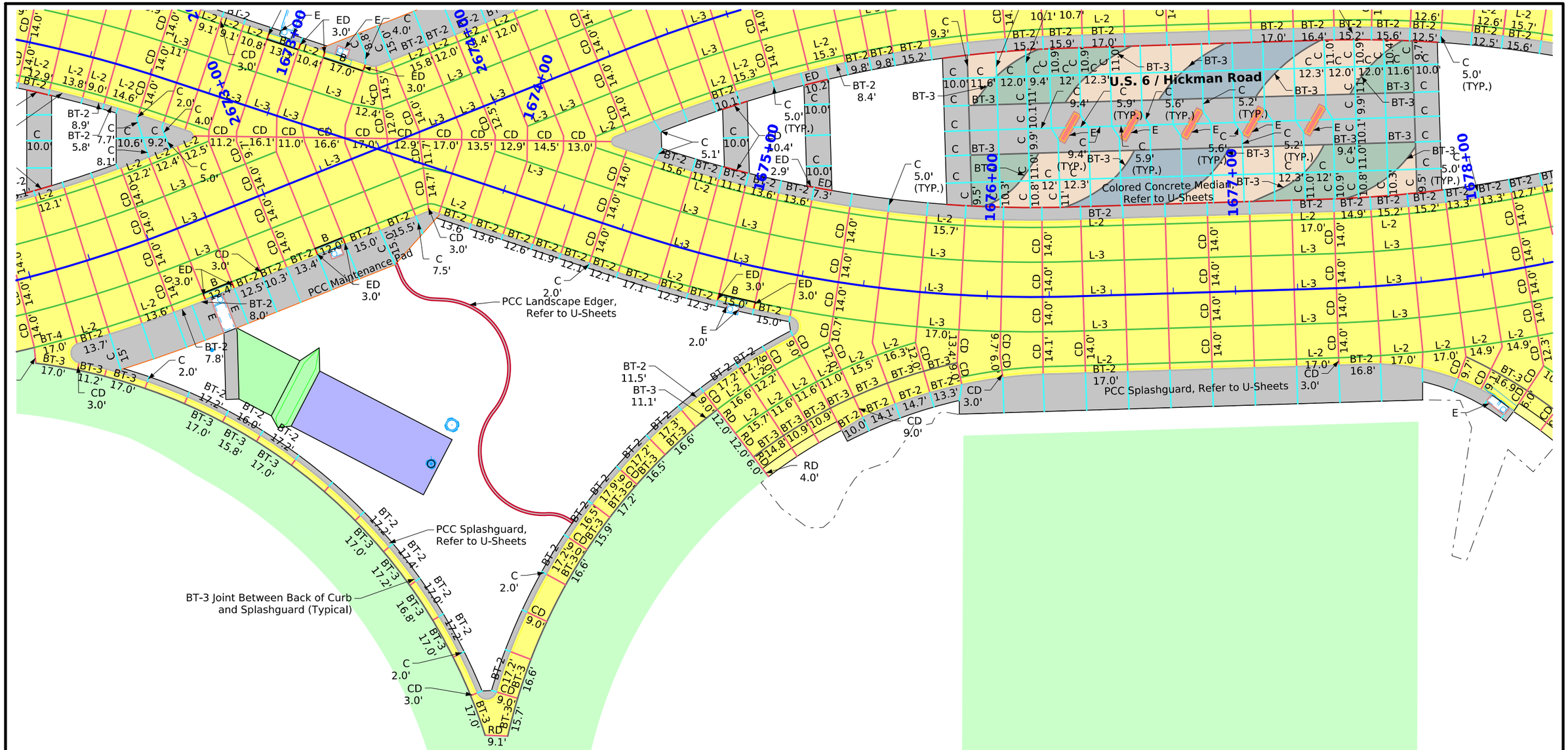
WALNUT TWP.
T-79N R-25W
SEC. 32
City of Clive

Geometric & Staking Details
U.S. Hwy 6 (Hickman Road)

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER L.14

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V2



WALNUT TWP.
T-79N R-25W
SEC. 32
City of Clive

Notes:
All Longitudinal Joints Shall L-2 Unless Indicated Otherwise.

All Traverse Joints Shall Be CD Joints With A Maximum 17' Spacing Unless Indicated Otherwise.

If A Joint Length Is 2', A C Joint Shall Be Used Instead Of A CD Joint.

Refer To Standard Road Plans For Details Of Paved Header, If Applicable.

Refer To Standard Road Plan PV-1 For Additional Details.

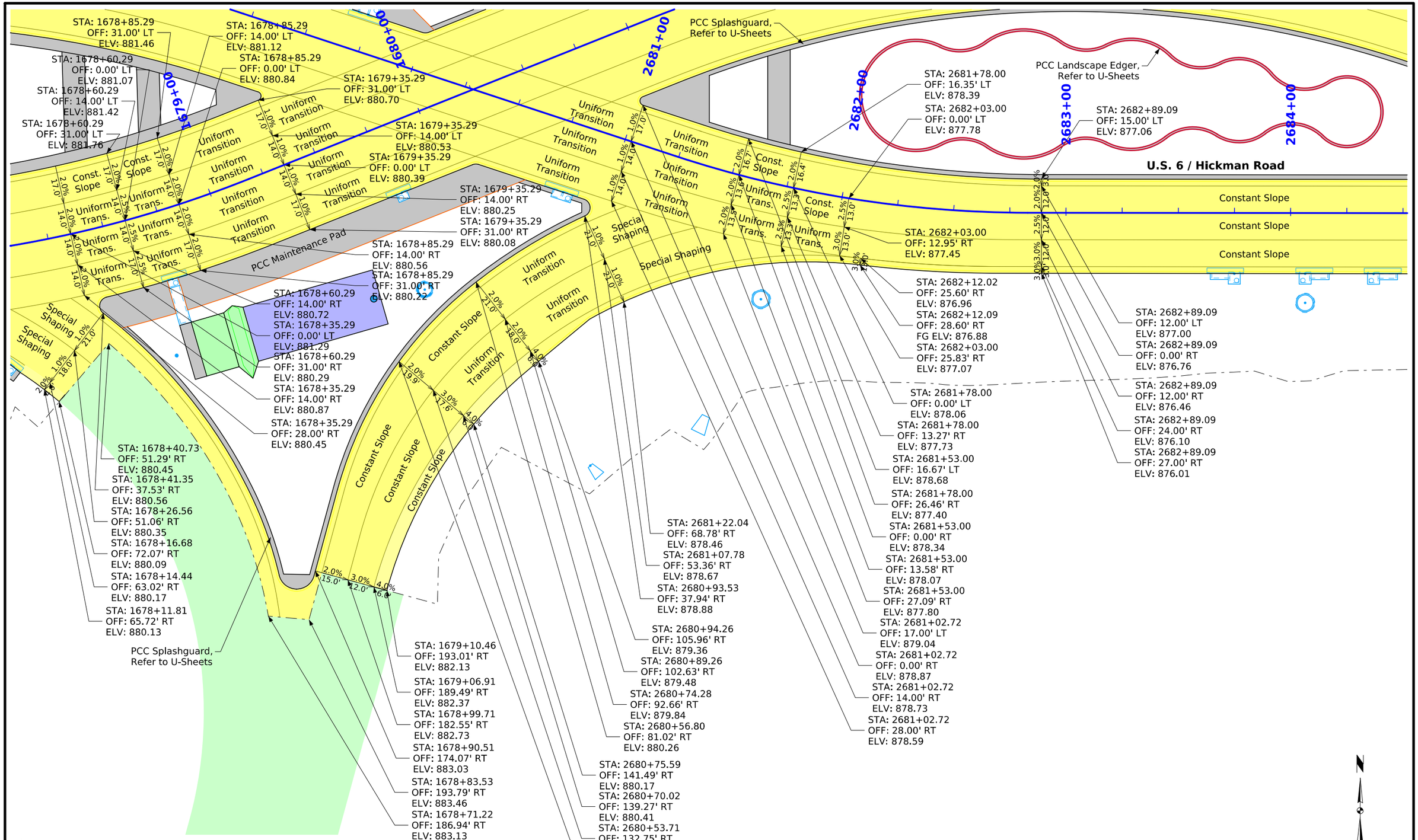
Refer To Standard Road Plans For Additional Jointing Details Around Physical Feature.

Jointing Details
U.S. Hwy 6 (Hickman Road)

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER L.15

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V2



Notes:
Dimensions Shown Are To The Edge Of Pavement.

Refer To G Sheets For Horizontal Alignment Information.

Refer To Appropriate Standard Road Plans For Additional Information.

0 FEET 20

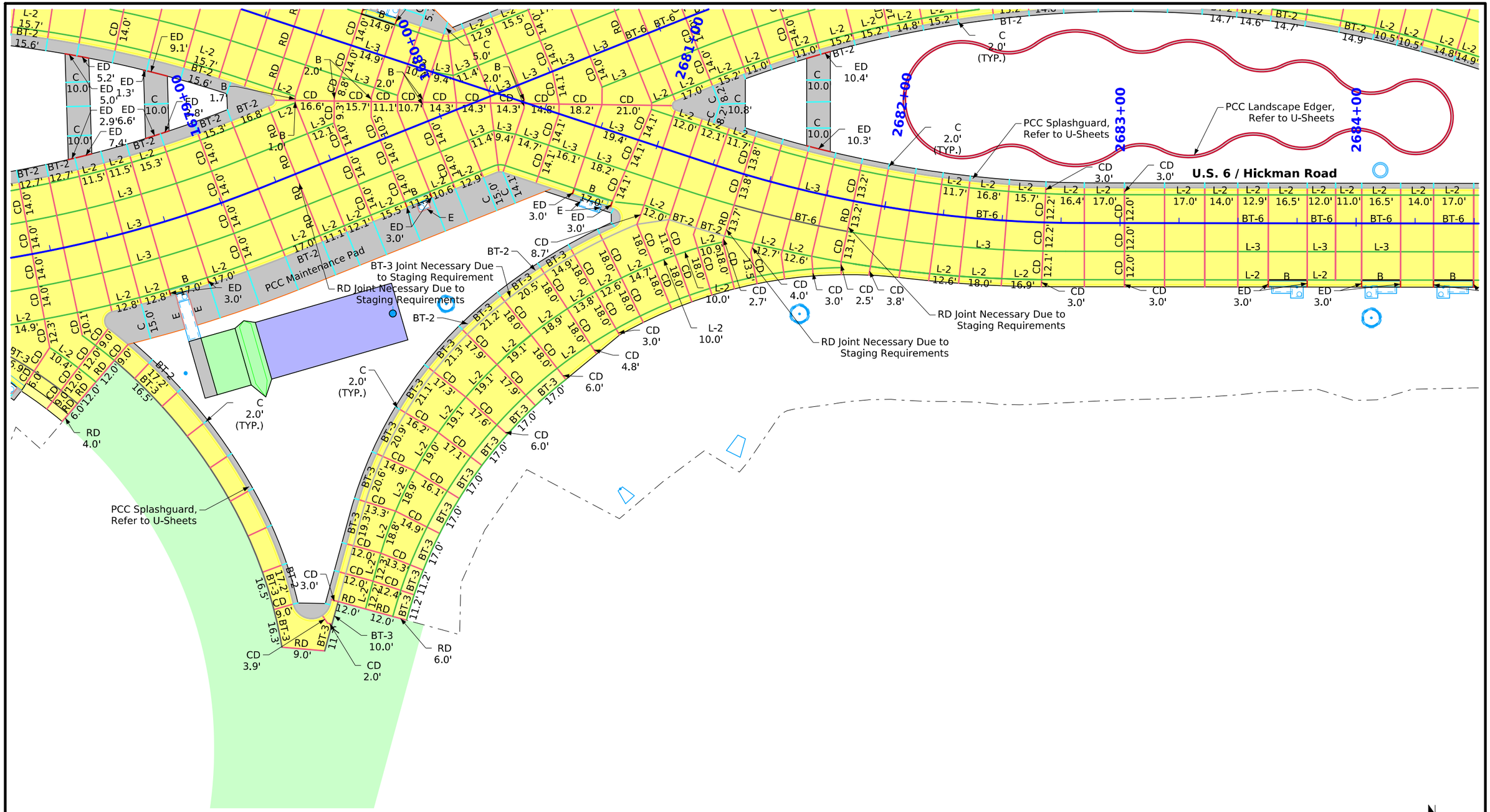
WALNUT TWP.
T-79N R-25W
SEC. 33
City of Clive

Geometric & Staking Details
U.S. Hwy 6 (Hickman Road)

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER L.16

2:24:02 PM 5/29/2026 choover pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\7708006015\Design_(274)_US6 GradePave\CADD_Files\Sheet_Files\SHT_77080274Z08_L12.dgn

V2



Notes:
All Longitudinal Joints Shall be L-2 Unless Indicated Otherwise.

All Traverse Joints Shall Be CD Joints With A Maximum 17' Spacing Unless Indicated Otherwise.

If A Joint Length Is 2', A C Joint Shall Be Used Instead Of A CD Joint.

Refer To Standard Road Plans For Details Of Paved Header, If Applicable.

Refer To Standard Road Plan PV-1 For Additional Details.

Refer To Standard Road Plans For Additional Jointing Details Around Physical Feature.

0 FEET 20

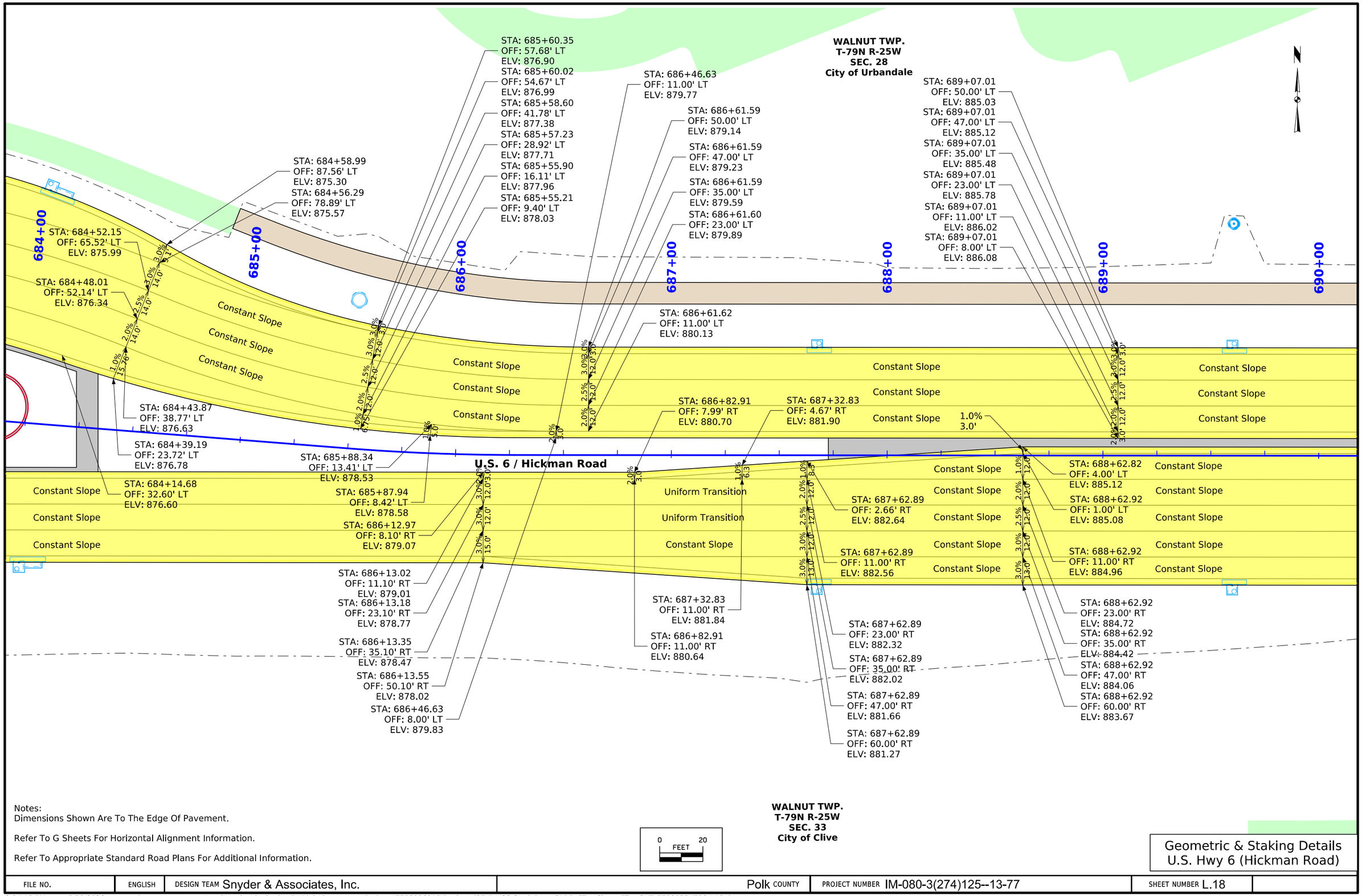
WALNUT TWP.
T-79N R-25W
SEC. 33
City of Clive

Jointing Details
U.S. Hwy 6 (Hickman Road)

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER L.17

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V2



Notes:
Dimensions Shown Are To The Edge Of Pavement.

Refer To G Sheets For Horizontal Alignment Information.

Refer To Appropriate Standard Road Plans For Additional Information.

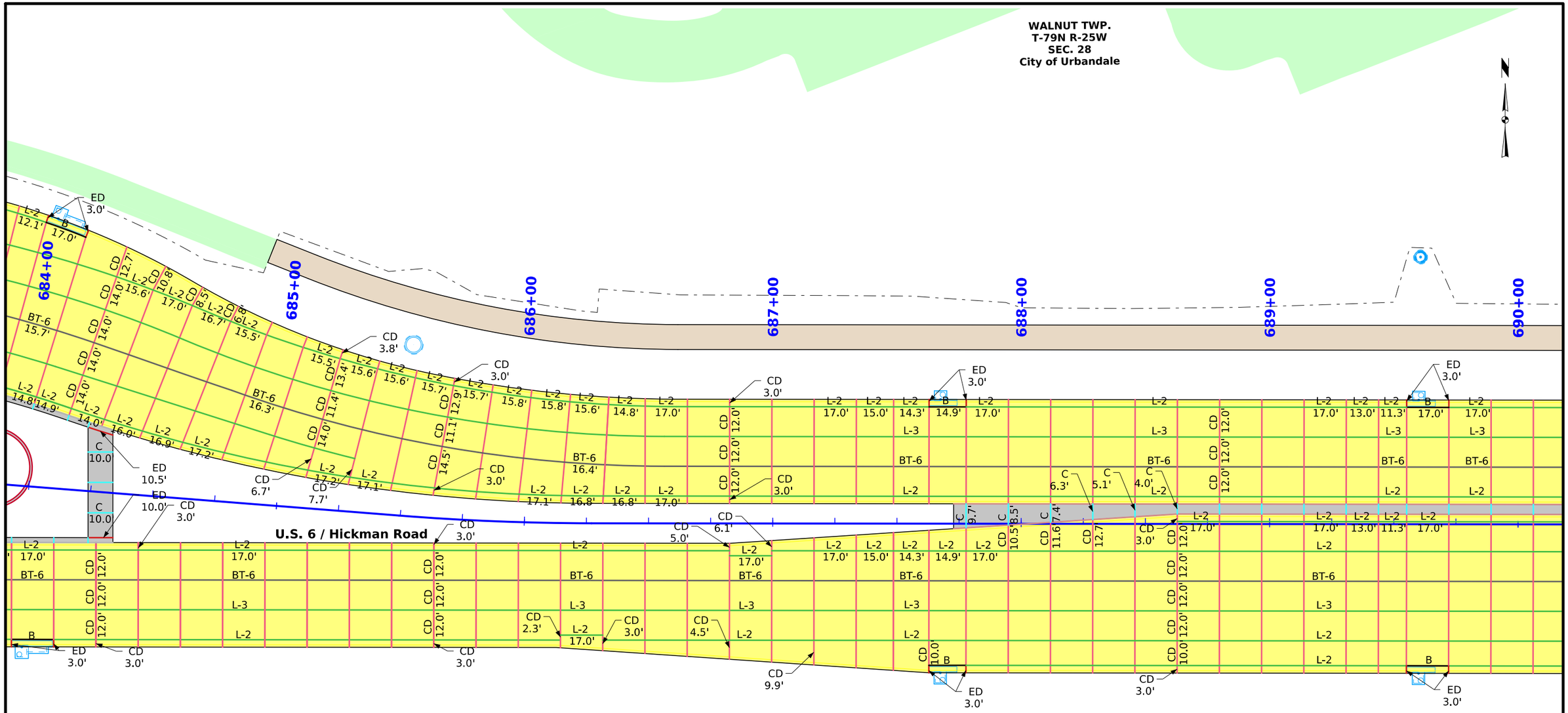
WALNUT TWP.
T-79N R-25W
SEC. 33
City of Clive

Geometric & Staking Details
U.S. Hwy 6 (Hickman Road)

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER L.18

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V2



Notes:
All Longitudinal Joints Shall be L-2 Unless Indicated Otherwise.

All Traverse Joints Shall Be CD Joints With A Maximum 17' Spacing Unless Indicated Otherwise.

If A Joint Length Is 2', A C Joint Shall Be Used Instead Of A CD Joint.

Refer To Standard Road Plans For Details Of Paved Header, If Applicable.

Refer To Standard Road Plan PV-1 For Additional Details.

Refer To Standard Road Plans For Additional Jointing Details Around Physical Feature.

0 FEET 20

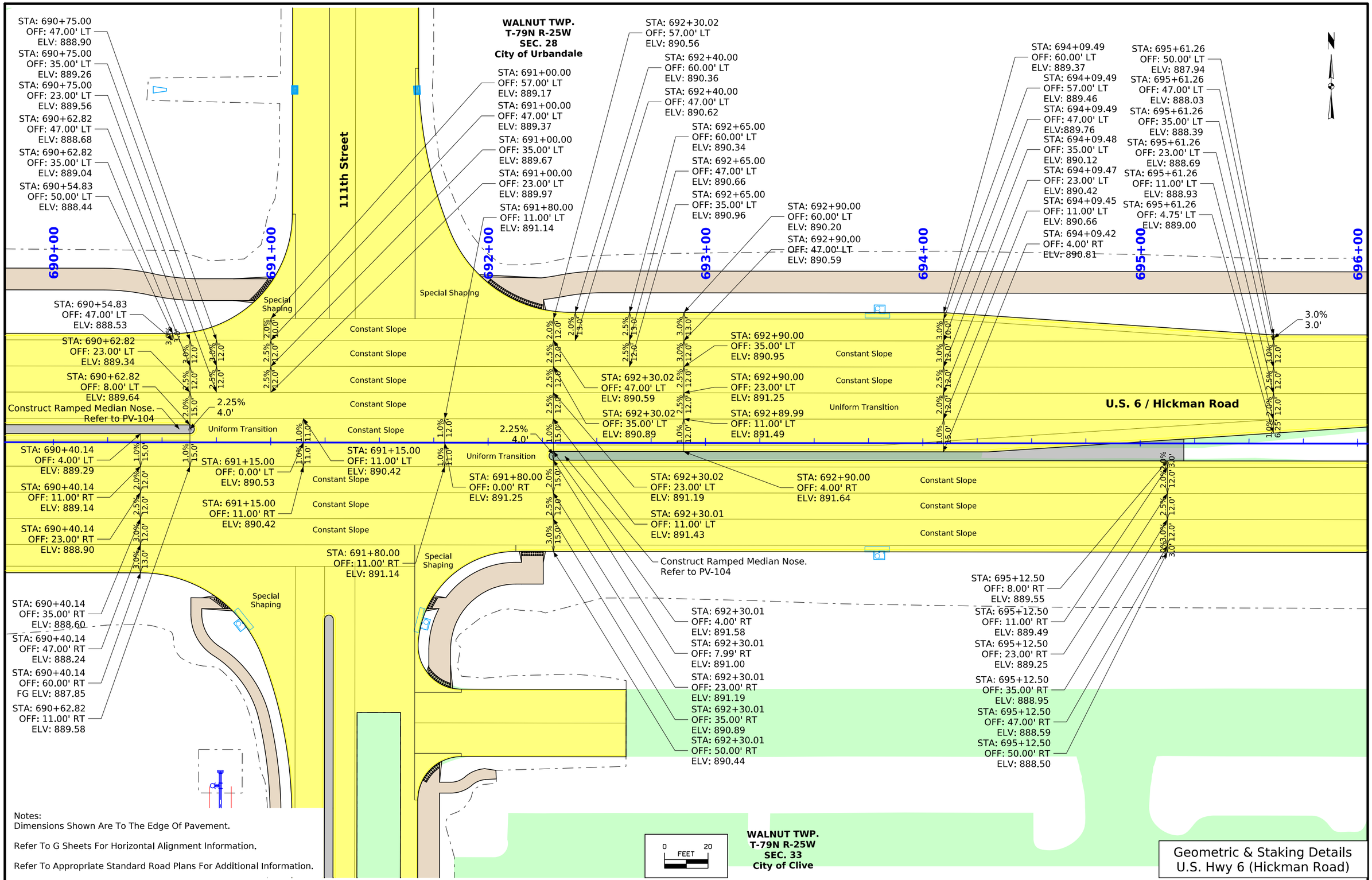
WALNUT TWP.
T-79N R-25W
SEC. 33
City of Clive

Geometric & Staking Details
U.S. Hwy 6 (Hickman Road)

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER L.19

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V2



FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER L.20

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V2

WALNUT TWP.
T-79N R-25W
SEC. 28
City of Urbandale

Notes:
All Longitudinal Joints Shall be L-2 Unless Indicated Otherwise.

All Traverse Joints Shall Be CD Joints With A Maximum 17' Spacing Unless Indicated Otherwise.

If A Joint Length Is 2', A C Joint Shall Be Used Instead Of A CD Joint.

Refer To Standard Road Plans For Details Of Paved Header, If Applicable.

Refer To Standard Road Plan PV-1 For Additional Details.

Refer To Standard Road Plans For Additional Jointing Details Around Physical Feature.

690+00 691+00 692+00 693+00 694+00 695+00 696+00

U.S. 6 / Hickman Road

111th Street

Construct Ramped Median Nose.
Refer to PV-104

Construct Ramped Median Nose.
Refer to PV-104

0 FEET 20

WALNUT TWP.
T-79N R-25W
SEC. 33
City of Clive

Geometric & Staking Details
U.S. Hwy 6 (Hickman Road)

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER L.21

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V2

WALNUT TWP.
T-79N R-25W
SEC. 28
City of Urbandale

696+00 | 697+00 | 698+00 | 699+00 | 700+00 | 701+00 | 702+00

STA: 696+65.00
OFF: 50.00' LT
FG ELV: 886.76
STA: 696+65.01
OFF: 47.00' LT
ELV: 886.85

STA: 696+65.01
OFF: 35.00' LT
ELV: 887.21

STA: 696+65.01
OFF: 23.00' LT
ELV: 887.51

STA: 696+65.00
OFF: 11.00' LT
ELV: 887.75

STA: 696+65.00
OFF: 8.00' LT
ELV: 887.81

STA: 697+00.00
OFF: 50.00' LT
ELV: 886.36

STA: 697+00.00
OFF: 35.00' LT
ELV: 886.81

Uniform Transition
STA: 697+00.00
OFF: 23.00' LT
ELV:

STA: 697+14.99
OFF: 49.00' LT
ELV: 886.32

STA: 697+15.00
OFF: 39.60' LT
ELV: 886.55

STA: 697+15.00
OFF: 35.02' LT
ELV: 886.67

STA: 697+00.00
OFF: 11.00' LT
ELV: 887.35

STA: 697+00.00
OFF: 8.00' LT
FG ELV: 887.41
STA: 697+52.54
OFF: 47.00' LT
ELV: 886.01

STA: 697+78.93
OFF: 47.63' LT
ELV: 885.76

STA: 697+79.18
OFF: 36.86' LT
ELV: 886.03

STA: 697+79.49
OFF: 22.94' LT
ELV: 886.38

STA: 697+98.91
OFF: 48.10' LT
ELV:885.65

STA: 697+99.20
OFF: 36.11' LT
ELV: 885.95

STA: 697+99.50
OFF: 23.09' LT
ELV:886.19

STA: 697+99.77
OFF: 11.11' LT
ELV: 885.99

STA: 697+99.92
OFF: 5.11' LT
ELV: 885.84

STA: 701+39.02
OFF: 56.21' LT
ELV: 881.75

STA: 701+39.30
OFF: 44.21' LT
ELV: 882.05

STA: 701+41.60
OFF: 20.31' LT
ELV: 882.12

STA: 701+41.74
OFF: 14.31' LT
ELV: 881.97

Constant Slope
Uniform Transition
Uniform Transition
M.E.

U.S. 6 / Hickman Road

STA: 697+00.00
OFF: 8.00' RT
ELV: 887.41

STA: 697+00.00
OFF: 11.00' RT
ELV: 887.35

STA: 697+00.00
OFF: 23.00' RT
ELV: 887.11

STA: 697+00.00
OFF: 35.00' RT
ELV: 886.81

STA: 697+00.00
OFF: 47.00' RT
ELV: 886.45

STA: 697+00.00
OFF: 50.00' RT
ELV: 886.36

Uniform Transition
Uniform Transition
Constant Slope

STA: 697+76.17
OFF: 32.89' RT
ELV: 886.28

STA: 697+76.47
OFF: 45.91' RT
ELV: 886.10

STA: 697+76.60
OFF: 51.91' RT
ELV: 886.02

STA: 698+19.19
OFF: 12.87' RT
ELV: 885.71

STA: 698+19.32
OFF: 18.88' RT
ELV: 885.86

STA: 698+08.67
OFF: 12.56' RT
ELV: 885.84

STA: 698+19.60
OFF: 31.11' RT
ELV: 885.98

STA: 698+19.92
OFF: 44.92' RT
ELV: 885.79

STA: 698+20.05
OFF: 50.92' RT
ELV: 885.70

STA: 702+13.43
OFF: 21.96' RT
ELV: 881.20

STA: 702+13.34
OFF: 27.96' RT
ELV: 881.36

M.E.

Notes:
Dimensions Shown Are To The Edge Of Pavement.

Refer To G Sheets For Horizontal Alignment Information.

Refer To Appropriate Standard Road Plans For Additional Information.

0 FEET 20

WALNUT TWP.
T-79N R-25W
SEC. 33
City of Clive

Geometric & Staking Details
U.S. Hwy 6 (Hickman Road)

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER L.22

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V2

WALNUT TWP.
T-79N R-25W
SEC. 28
City of Urbandale

Notes:
All Longitudinal Joints Shall be L-2 Unless Indicated Otherwise.

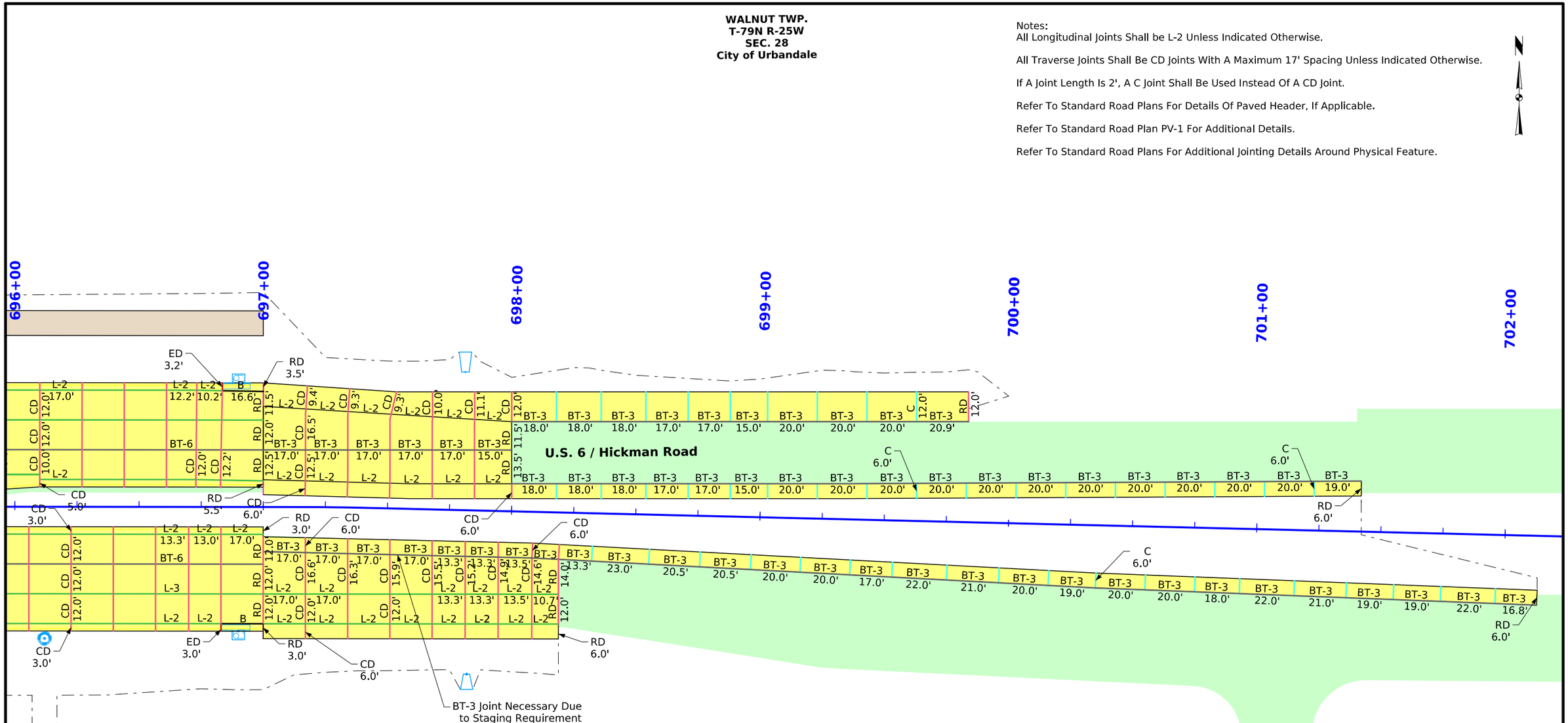
All Traverse Joints Shall Be CD Joints With A Maximum 17' Spacing Unless Indicated Otherwise.

If A Joint Length Is 2', A C Joint Shall Be Used Instead Of A CD Joint.

Refer To Standard Road Plans For Details Of Paved Header, If Applicable.

Refer To Standard Road Plan PV-1 For Additional Details.

Refer To Standard Road Plans For Additional Jointing Details Around Physical Feature.



WALNUT TWP.
T-79N R-25W
SEC. 33
City of Clive

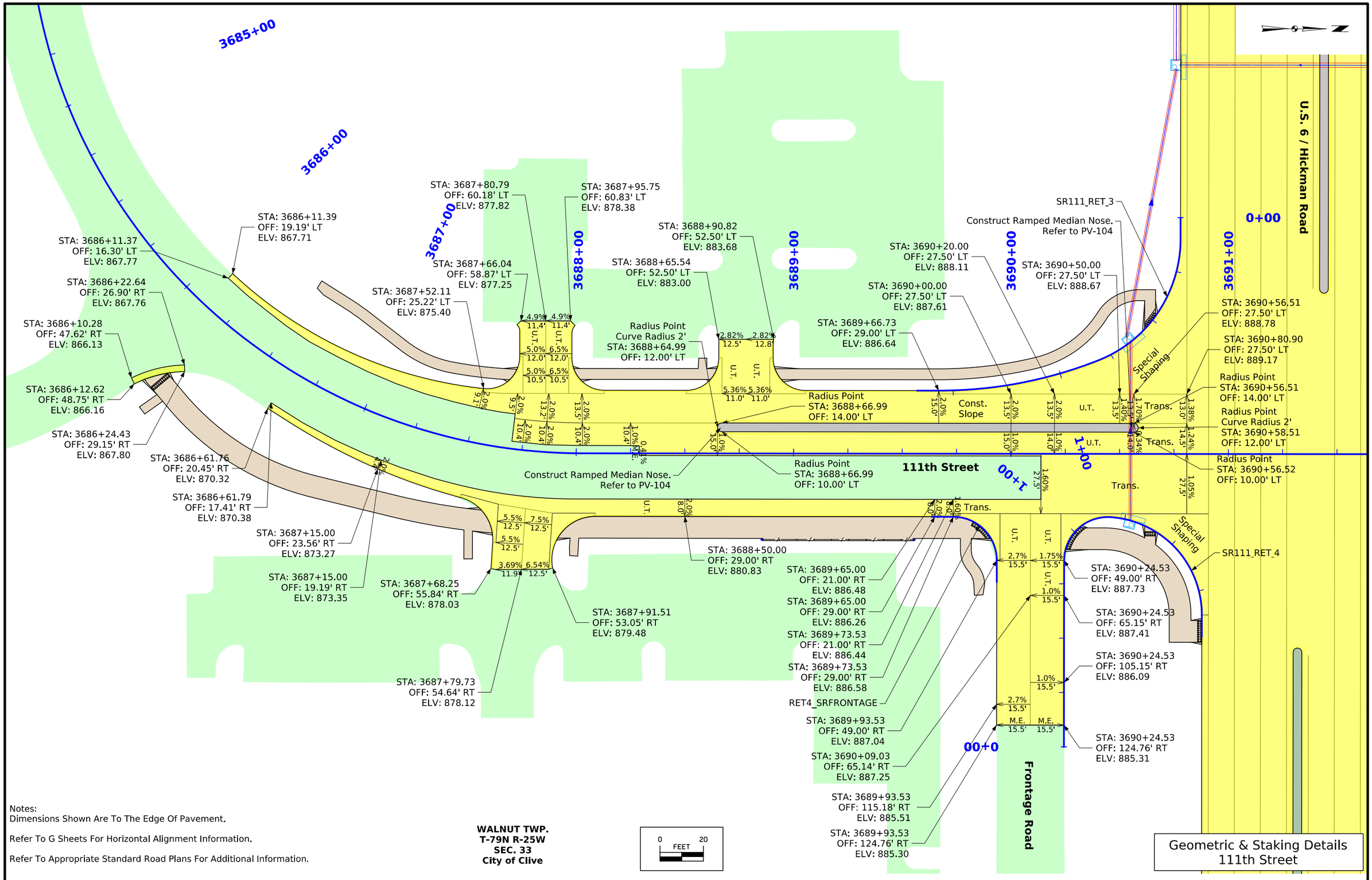
0 FEET 20

Geometric & Staking Details
U.S. Hwy 6 (Hickman Road)

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER L.23

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V2



Notes:
Dimensions Shown Are To The Edge Of Pavement.

Refer To G Sheets For Horizontal Alignment Information.

Refer To Appropriate Standard Road Plans For Additional Information.

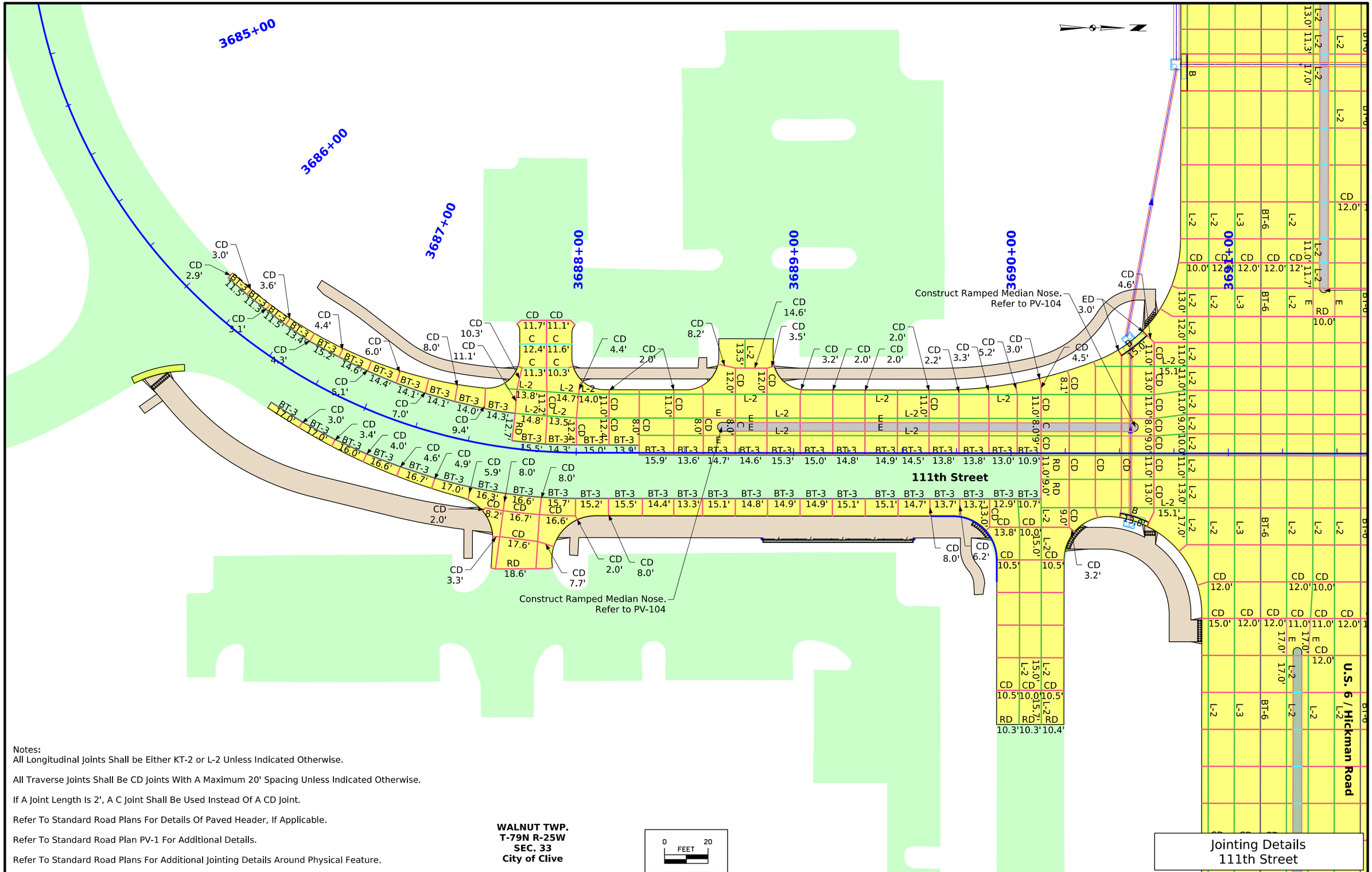
WALNUT TWP.
T-79N R-25W
SEC. 33
City of Clive

Geometric & Staking Details 111th Street

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER L.24

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V2



Notes:
All Longitudinal Joints Shall be Either KT-2 or L-2 Unless Indicated Otherwise.

All Traverse Joints Shall Be CD Joints With A Maximum 20' Spacing Unless Indicated Otherwise.

If A Joint Length Is 2', A C Joint Shall Be Used Instead Of A CD Joint.

Refer To Standard Road Plans For Details Of Paved Header, If Applicable.

Refer To Standard Road Plan PV-1 For Additional Details.

Refer To Standard Road Plans For Additional Jointing Details Around Physical Feature.

WALNUT TWP.
T-79N R-25W
SEC. 33
City of Clive

0 FEET 20

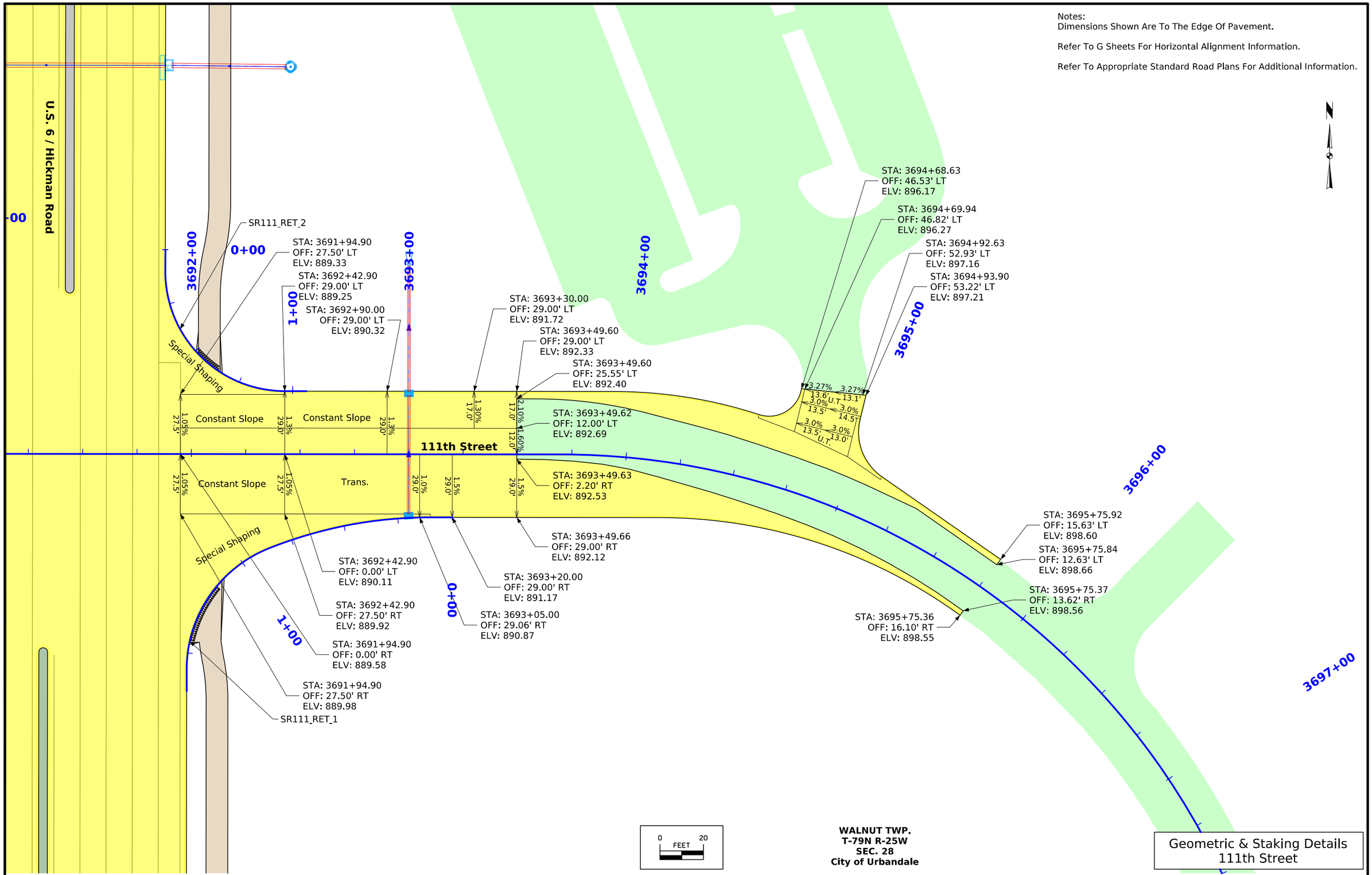
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Notes:
Dimensions Shown Are To The Edge Of Pavement.

Refer To G Sheets For Horizontal Alignment Information.

Refer To Appropriate Standard Road Plans For Additional Information.



WALNUT TWP.
T-79N R-25W
SEC. 28
City of Urbandale

Geometric & Staking Details
111th Street

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER L.26

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V2

Notes:
All Longitudinal Joints Shall be Either KT-2 or L-2 Unless Indicated Otherwise.

All Traverse Joints Shall Be CD Joints With A Maximum 20' Spacing Unless Indicated Otherwise.

If A Joint Length Is 2', A C Joint Shall Be Used Instead Of A CD Joint.

Refer To Standard Road Plans For Details Of Paved Header, If Applicable.

Refer To Standard Road Plan PV-1 For Additional Details.

Refer To Standard Road Plans For Additional Jointing Details Around Physical Feature.

Construct Ramped Median Nose.
Refer to PV-104

3692+00
3693+00
3694+00
3695+00
3696+00
3697+00

U.S. 6 / Hickman Road

0 FEET 20

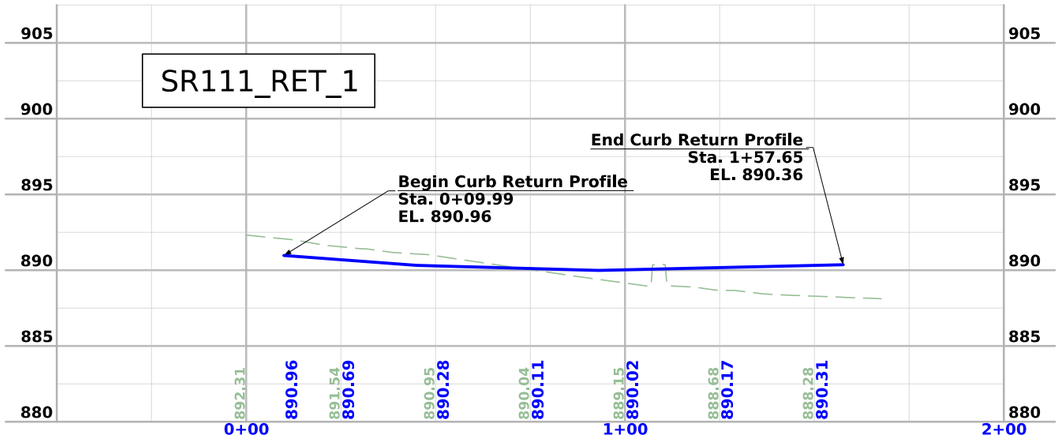
WALNUT TWP.
T-79N R-25W
SEC. 28
City of Urbandale

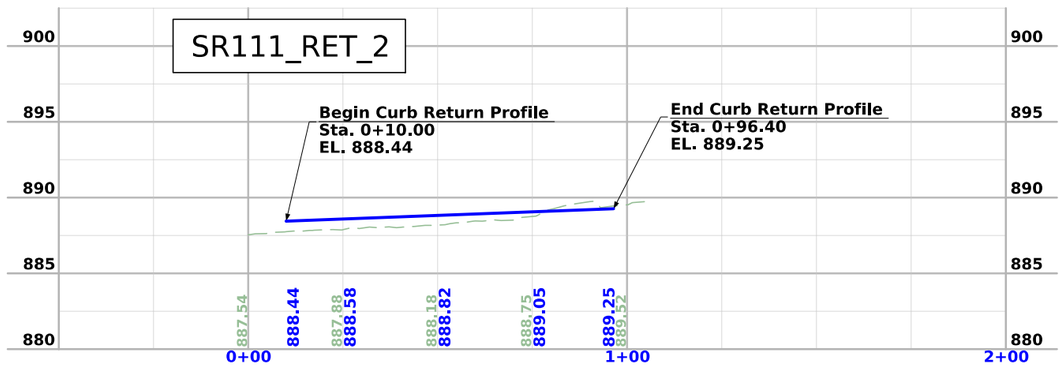
Jointing Details
111th Street

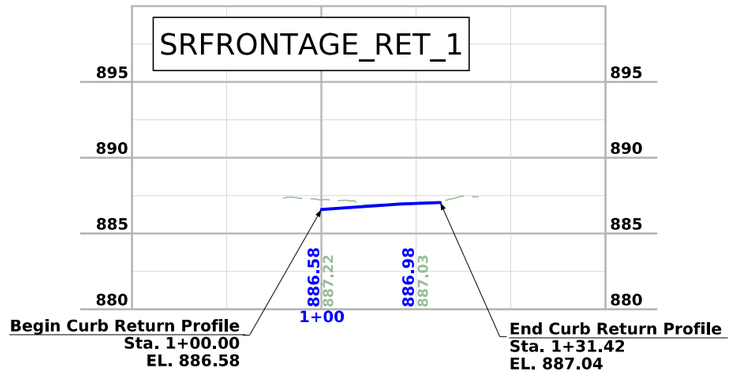
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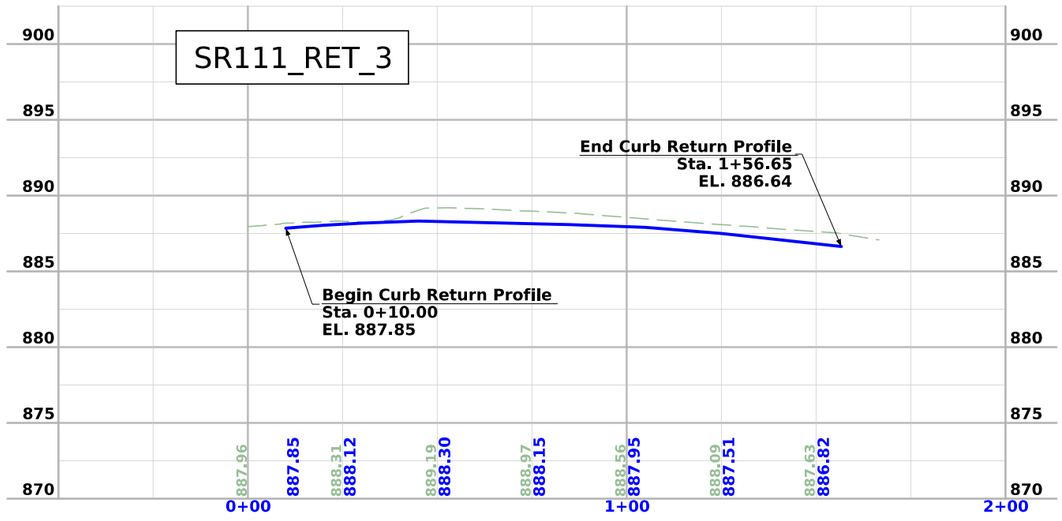
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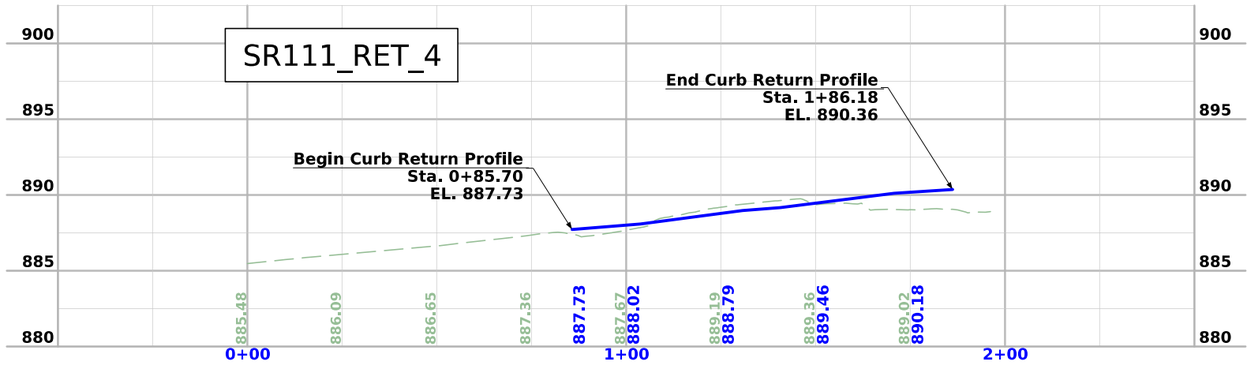
V2











FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER L.28

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V2

STORM SEWER

No.	Location Station	Offset	Type or Standard Road Plan*	Form Grade Elev.	Bottom Well Elev.	Extension Length**	Notes	Line Number	Intake/Utility Access No. From	Intake/Utility Access No. To	Class 'D'	Pipe Size (1) (IN)	Bid Length* (FT)	Design Length (FT)	Slope %	Connected Pipe Joint (DR-121)	Flow Line Inlet Elev.	Flow Line Outlet Elev.	Pipe Profile Sheet No.	Notes
39	1673+20.78	-31.00	SW-507	887.16	881.67		GEO_SR006_WB	P-39	39	40	2000	18	82.0	77.7	1.00		882.17	881.39	M.5	
40	2673+18.30	31.00	SW-507	887.19	880.29		GEO_SR006_EB	P-40	40	41	2000	18	162.0	157.5	1.31		880.79	878.72	M.5	
41	1675+00.70	17.00	SW-507	884.13	876.17		GEO_SR006_WB	P-41	41	STUB	2000	30	18.0	15.5	0.77		876.67	876.55	M.5	CONNECT TO EXST.
43	2675+71.94	-32.90	SW-510	883.02	877.40		GEO_SR006_EB	P-42A	STUB	43	2000	24	42.0	39.3	4.12		879.58	877.96	M.5	CONNECT TO EXST.
44	2674+89.70	-31.00	SW-508	884.27	877.00		GEO_SR006_EB	P-43	43	44	2000	30	87.0	82.2	0.36		877.90	877.60	M.5	
46	14418+81.03	-3.32	SW-509	880.13	875.39		GEO_RPB006_1	P-44	44	41	2000	30	149.0	145.2	0.50		877.50	876.77	M.5	
47	1679+79.25	31.00	SW-507	879.81	871.50		GEO_SR006_WB	P-46	46	47	2000	15	193.0	188.7	1.01		875.89	873.99	M.7	
49	16420+59.00	-3.00	SW-509	879.73	874.81		GEO_RPD006_1	P-47	47	53	2000	30	43.0	38.3	0.65		872.00	871.75	M.7	
50A	16420+39.00	-14.00	SW-401, 48 IN	880.75	874.81		GEO_RPD006_1	P-49	49	50	2000	24	18.0	13.6	1.47		875.31	875.11	M.7	
50	16420+39.00	-3.00	SW-545, 12 FT	879.71	874.51		GEO_RPD006_1	P-50A	50A	50	2000	24	9.0	5.0	4.00		875.31	875.11	M.7	
51	16420+28.00	-3.00	SW-509	879.76	874.91		GEO_RPD006_1	P-50	50	52	2000	24	135.0	131.2	0.85		875.01	873.89	M.7	
52	2679+73.87	-17.00	SW-510	879.97	872.80		GEO_SR006_EB	P-51	51	50	2000	24	9.0	4.7	4.26		875.41	875.21	M.7	
53	24118+75.44	-51.26	SW-401, 72 IN	880.66	866.27		GEO_RPB006_2	P-52	52	47	2000	30	85.0	80.8	1.11		873.30	872.40	M.7	
55	24418+76.83	56.32	DR-201, 30 IN	865.10			GEO_RPB006_2	P-53	53	55	2000	30	107.0	104.6	1.50		866.77	865.20	M.7	
56	2680+81.00	31.00	SW-509	878.87	872.55		GEO_SR006_EB	P-54	STUB	53	2000	24	99.0	96.6	3.70		873.42	869.85	M.7	
57	2681+74.45	51.49	SW-401, 84 IN	877.82	861.77		GEO_SR006_EB	P-56	56	57	2000	15	97.0	92.4	1.35		873.05	871.80	M.11	
64	1681+71.00	-31.00	SW-509	877.36	871.63		GEO_SR006_WB	P-57	57	82	2000	42	56.0	54.1	0.78		862.27	861.85	M.10	
65	1683+80.00	-45.00	SW-545, 12 FT	874.79	870.29		GEO_SR006_WB	P-64	64	57	2000	24	174.0	170.4	1.02		872.13	870.40	M.11	130 LF TRENCHLESS
67	1685+96.62	-38.99	SW-401, 72 IN	877.55	870.53		GEO_SR006_WB	P-65	65	69	2000	15	35.0	31.1	1.00		870.69	870.38	M.11	
68	1684+42.00	-43.31	SW-545, 12 FT	874.84	868.82		GEO_SR006_WB	P-66	66EX	67	2000	30	27.0	22.8	4.61		873.05	872.00	M.11	CONN TO EX INTK
69A	2684+10.24	-22.53	SW-401, 48 IN	877.11	867.24		GEO_SR006_EB	P-67	67	68	2000	30	151.0	146.8	1.10		871.03	869.42	M.11	
69	1684+12.00	-44.78	SW-545, 12 FT	874.76	868.45		GEO_SR006_WB	P-68	68	69	2000	30	33.0	28.9	0.93		869.32	869.05	M.11	
70	2684+06.50	27.00	SW-545, 12 FT	875.42	866.71		GEO_SR006_EB	P-69	69	69A	2000	30	134.0	130.0	0.90		868.95	867.78	M.11	66 LF TRENCHLESS
71	2684+37.00	27.00	SW-545, 12 FT	875.46	869.60		GEO_SR006_EB	P-69A	69A	70	2000	30	51.0	47.0	0.90		867.74	867.31	M.11	47 LF TRENCHLESS
72	2683+75.00	27.00	SW-545, 12 FT	875.46	869.60		GEO_SR006_EB	P-70	70	73	2000	30	10.0	5.8	0.86		867.21	867.16	M.11	
73	2684+06.50	40.00	SW-401, 84 IN	876.17	866.35		GEO_SR006_EB	P-71	71	70	2000	15	31.0	26.5	0.98		870.10	869.84	M.11	
74	689+60.64	-107.51	SW-401, 48 IN	888.29	880.02		GEO_SR006_EB	P-72	72	70	2000	15	32.0	27.5	0.98		870.10	869.83	M.11	
75	689+60.00	-50.00	SW-507	886.39	879.30		GEO_SR006	P-73	73	57	2000	36	239.0	235.2	1.81		866.85	862.60	M.10	
76	689+60.00	60.00	SW-508	886.00	875.50		GEO_SR006	P-74	74	75	2000	24	57.0	52.5	0.99		880.52	880.00	M.13	
78	3690+55.00	30.66	SW-507	888.88	884.00		GEO_SR006	P-75	75	76	2000	24	114.0	110.0	3.50		879.80	875.95	M.13	110 LF TRENCHLESS
79	3690+55.00	-51.53	SW-507	888.21	881.30		GEO_SR111	P-76	76	81	2000	30	193.0	188.5	2.01		876.00	872.21	M.10	
80	687+67.50	-50.00	SW-507	881.68	876.50		GEO_SR111	P-78	78	79	2000	15	86.0	82.2	3.04		884.50	882.00	M.10	
81	687+67.50	60.00	SW-508	881.38	871.20		GEO_SR006	P-79	79	76	2000	15	129.0	125.1	3.72		881.90	877.25	M.10	
82	24419+56.64	63.98	DR-201, 42 IN	861.79			GEO_SR006	P-80	80	81	2000	15	114.0	110.0	1.09		877.00	875.80	M.13	75 LF TRENCHLESS
83	3693+00.00	29.25	SW-501	890.78	887.12		GEO_RPB006_2	P-81	81	73	2000	30	399.0	394.7	1.00		871.70	867.76	M.10	
84	3693+00.00	-29.00	SW-501	890.68	886.85		GEO_SR111	P-83	83	84	2000	15	58.0	54.3	0.31		887.57	887.40	M.13	
85	3693+00.00	-87.00	DR-201, 15 IN	887.17			GEO_SR111	P-84	84	85	2000	15	62.0	58.0	0.28		887.35	887.19	M.13	
86	693+80.00	-60.00	SW-507	889.69	885.56		GEO_SR111	P-86	86	87	2000	15	114.0	110.0	1.00		886.06	884.96	M.14	65 LF TRENCHLESS
87	693+80.00	50.00	SW-507	889.99	884.36		GEO_SR006	P-87	87	90	2000	15	232.0	228.0	1.00		884.86	882.59	M.14	
88	696+90.00	-50.00	SW-507	886.47	882.27		GEO_SR006	P-88	88	89	2000	15	104.0	100.0	1.00		882.77	881.77	M.14	65 LF TRENCHLESS
89	696+90.00	50.00	SW-507	886.47	881.02		GEO_SR006	P-89	89	90	2000	15	78.0	74.0	3.20		881.52	879.15	M.14	
90	696+12.00	53.00	SW-401, 48 IN	887.90	877.68		GEO_SR006	P-90	90	91EX	2000	15	62.0	57.5	5.01		878.18	875.30	M.14	CONN TO EX INTK
206	16419+72.25	-50.31	SW-401, 48 IN	889.70	876.73		GEO_SR006	P-206	206	51	2000	24	36.0	63.5	2.71		877.23	875.51	M.7	REUSE 32 LF
							GEO_SR006_EB	P-209	209EX	46	2000	15	40.0	59.5	6.00		880.61	877.04	M.7	EX MH, REUSE 24 LF
			TEMPORARY STORM SEWER																	
69T	1684+21.71	20.73	SW-401, 60 IN, Beehive Casting	872.00	867.83		GEO_SR006_WB	P-57T	EXPIPE 57	OUTLET	UNCL	36	66.0	66.0	4.65		864.86	861.79	J.104	TEMP PIPE
EXPIPE 57	2681+62.78	50.72	EXISTING 36 RCP				GEO_SR006_EB	P-64T	EXPIPE 64	64	UNCL	24	93.0	91.0	1.15		873.28	872.23	J.202	TEMP PIPE
EXPIPE 64	1680+81.78	-46.83	EXISTING 24 RCP				GEO_SR006_WB	P-69T	EXPIPE69	69A	UNCL	18	9.0	7.0	3.00		870.00	869.79	J.104	TEMP PIPE
EXPIPE 69	2684+20.23	-20.23	EXISTING 15 RCP				GEO_SR006_EB													

STORM SEWER

No.	Location Station	Offset	Type or Standard Road Plan*	Form Grade Elev.	Bottom Well Elev.	Extension Length**	Notes	Line Number	Intake/Utility Access No. From	Intake/Utility Access No. To	Class 'D'	Pipe Size (1) (IN)	Bid Length* (FT)	Design Length (FT)	Slope %	Connected Pipe Joint (DR-121)	Flow Line Inlet Elev.	Flow Line Outlet Elev.	Pipe Profile Sheet No.	Notes
BR1	2672+67.00	31.00	SW-507 INTAKE TOP ONLY, WITH FLUME	887.92			GEO_SR006_EB	P-BR2	BR2	BR3	2000	15	18.0	14.2	1.34		882.13	881.94	M.5	
BR2	25418+10.36	55.88	SW-512, 36 IN	887.12	881.62		GEO_RPC006_2	P-BR3	BR3	40	2000	15	84.0	80.3	1.01		881.84	881.03	M.5	
BR3	25418+14.48	72.76	SW-401, 48 IN	886.8	881.34		GEO_RPC006_2	P-BR5	BR5	44	2000	15	73.0	69.0	2.71		880.62	878.75	M.5	
BR4	1672+97.00	-31.00	SW-507 INTAKE TOP ONLY, WITH FLUME	887.55			GEO_SR006_WB	P-BR7	BR7	53	2000	15	23.0	19.4	1.19		874.95	874.72	M.7	
BR5	2674+27.44	-63.83	SW-512, 24 IN	885.6	880.12		GEO_SR006_EB	P-BR9	BR9	BR10	2000	15	22.0	18.1	1.10		874.84	874.64	M.8	
BR6	1678+73.00	31.00	SW-507 INTAKE TOP ONLY, WITH FLUME	880.26			GEO_SR006_WB	P-BR10	BR10	52	2000	15	86.0	81.7	1.43		874.54	873.37	M.8	
BR7	24418+60.73	-64.32	SW-512, 24 IN	879.95	874.45		GEO_RPB006_2													
BR8	2679+04.28	17.00	SW-507 INTAKE TOP ONLY, WITH FLUME	880.59			GEO_SR006_EB													
BR9	16421+15.79	75.67	SW-512, 36 IN	879.84	874.34		GEO_RPD006_1													
BR10	16421+13.75	97.05	SW-401, 48 IN	879.58	874.04		GEO_RPD006_1													
MD1	1676+24.34	-60.72	TYPE A-2 CLEANOUT	884.91	881.07		GEO_SR006_WB	P-MD1	MD1	MD20	PVC	4	107.5						M.15	
MD2	1676+30.00	-60.78	PVC 4 IN TEE FITTING				GEO_SR006_WB	P-MD3	MD3	MD2	PVC	4	1.7						M.15	
MD3	1676+29.98	-63.26	6 IN FLOOR DRAIN	884.91	881.03		GEO_SR006_WB	P-MD5	MD5	MD4	PVC	4	11.3						M.15	
MD4	1676+39.9	-60.79	PVC 4 IN TEE FITTING				GEO_SR006_WB	P-MD7	MD7	MD6	PVC	4	1.7						M.15	
MD5	1676+39.94	-72.83	6 IN FLOOR DRAIN	884.86	880.99		GEO_SR006_WB	P-MD9	MD9	MD8	PVC	4	11.3						M.15	
MD6	1676+55.14	-60.77	PVC 4 IN TEE FITTING				GEO_SR006_WB	P-MD11	MD11	MD10	PVC	4	1.7						M.15	
MD7	1676+55.21	-63.25	6 IN FLOOR DRAIN	884.68	880.79		GEO_SR006_WB	P-MD13	MD13	MD12	PVC	4	11.3						M.15	
MD8	1676+64.57	-60.76	PVC 4 IN TEE FITTING				GEO_SR006_WB	P-MD15	MD15	MD14	PVC	4	1.7						M.15	
MD9	1676+64.62	-72.81	6 IN FLOOR DRAIN	884.67	880.75		GEO_SR006_WB	P-MD17	MD17	MD16	PVC	4	11.3						M.15	
MD10	1676+79.86	-60.74	PVC 4 IN TEE FITTING				GEO_SR006_WB	P-MD19	MD19	MD18	PVC	4	1.7						M.15	
MD11	1676+79.89	-63.22	6 IN FLOOR DRAIN	884.44	880.55		GEO_SR006_WB	P-MD21	MD21	MD24	PVC	4	4.3						M.15	
MD12	1676+89.26	-60.73	PVC 4 IN TEE FITTING				GEO_SR006_WB	P-MD23	MD23	46	PVC	4	135						M.15	
MD13	1676+89.31	-72.78	6 IN FLOOR DRAIN	884.43	880.51		GEO_SR006_WB													
MD14	1677+04.58	-60.72	PVC 4 IN TEE FITTING				GEO_SR006_WB													
MD15	1677+04.58	-63.20	6 IN FLOOR DRAIN	884.2	880.31		GEO_SR006_WB													
MD16	1677+14.01	-60.71	PVC 4 IN TEE FITTING				GEO_SR006_WB													
MD17	1677+13.99	-72.75	6 IN FLOOR DRAIN	884.19	880.26		GEO_SR006_WB													
MD18	1677+29.26	-60.69	PVC 4 IN TEE FITTING				GEO_SR006_WB													
MD19	1677+29.26	-63.17	6 IN FLOOR DRAIN	883.97	880.07		GEO_SR006_WB													
MD20	1677+37.15	-60.82	PVC 4 IN WYE FITTING				GEO_SR006_WB													
MD21	1677+34.99	-62.98	TYPE A-2 CLEANOUT	883.91	880.00		GEO_SR006_WB													
MD22	1677+39.23	-70.80	PVC 4 IN 11-1/4 DEG ELBOW FITTING				GEO_SR006_WB													
MD23	1677+38.82	-72.72	6 IN FLOOR DRAIN	883.95	880.12		GEO_SR006_WB													
MD24	1677+39.03	-59.07	PVC 4 IN WYE FITTING				GEO_SR006_WB													
MD25	1677+39.72	-58.45	PVC 4 IN 11-1/4 DEG ELBOW FITTING				GEO_SR006_WB													

Structures:

DR-201, 15" - 1
DR-201, 30" - 1
DR-201, 42" - 1
SW-401, 48" - 6
SW-401, 60" - 2
SW-401, 72" - 2
SW-401, 84" - 2
SW-501 - 2
SW-507 - 12
SW-508 - 3
SW-509 - 5
SW-510 - 2
SW-512, 24 IN - 2
SW-512, 36 IN - 2
SW-545, 12' - 7
6 In. Floor Drain - 10
Fittings, PVC, 4 In - 13
Cleanout, PVC, 4 In - 2

Pipe:

4" PVC, Non-Perforated - 301 LF
15" Trenched RCP - 1568 LF
15" Trenchless RCP - 205 LF
18" Trenched RCP - 244 LF
18" Trenched Unclassified Pipe - 9 LF
24" Trenched RCP - 453 LF
24" Trenchless RCP - 240 LF
24" Trenched Unclassified Pipe - 93 LF
30" Trenched RCP - 1375 LF
30" Trenchless RCP - 113 LF
36" Trenched RCP - 239 LF
36" Trenched Unclassified Pipe - 66 LF
42" Trenched RCP - 56 LF
Remove & Reinstall Pipe < 36" - 56 LF
Connection to Existing Manhole: 1
Connection to Existing Intake: 2

SURVEY SYMBOLS

- Interstate Highway Symbol
- U.S. Highway Symbol
- Iowa Highway Symbol
- County Road Highway Symbol
- Evergreen Tree
- Deciduous Tree
- Fruit Tree
- Shrub (Bushes)
- Timber
- Hedge
- Stump
- Swamp
- Rock Outcrop
- Broken Concrete
- Revetment (Rip Rap)
- Cemetery
- Grave
- Cave
- Sink Hole
- Board Fence
- Chain Link or Security Fence
- Wire Fence
- Terrace
- Earth Dam or Dike (Existing)
- Tile Outlet
- Edge of Water
- Existing Drainage
- Right of Way Rail or Lot Corner
- Concrete Monument
- Well
- Windmill
- Beehive Intake
- Existing Intake
- Existing Utility Access (Manhole)
- Fire Hydrant
- WH Water Hydrant (Rural)
- Septic Tank
- Cistern
- L.P. Gas Tank (No Footing)
- Underground Storage Tank
- Latrine
- Satellite TV Dish

- WHU Water Hook Up
- RT Radio Tower
- TA Tower Anchor
- Guardrail (Beam or Cable)
- GP Guard Post (one or two)
- Guard Post (over two)
- FP Filler Pipe
- GV Gas Valve
- WV Water Valve
- SL Speed Limit Sign
- MM Mile Marker Post
- SIGN Sign
- TCB Traffic Signal Control Box
- RRB Rail Road Signal Control Box
- TSB Telephone Switch Box
- EB Electric Box

UTILITY LEGEND

E1 MidAmerican Energy Company
Matthew Novy (515) 901-8274
Matthew.Novy@midamerican.com

E2 City of Urbandale - Traffic Electric
John Larson (515) 331-6718
engpw@urbandale.org

E3 City of Clive - Traffic Electric
Jerry Freestone (515) 223-6231
JFreestone@cityofclive.com

E4 Iowa Department of Transportation (IDOT) Electric
Jason Dale (515) 239-1995
jason.dale@iowadot.us

E5 GPRS - No Name Electric

F0 Zayo - Fiber Optic
John Ferraresi (847) 417-9609
john.ferraresi@zayo.com

F02 Lumen / CenturyLink - Fiber Optic
Ashlie Clements (906) 284-2821
Ashlie.Clements@lumen.com

F03 MCI/Verizon - Fiber Optic
Grace Gilborn (515) 443-2865
Grace.Gilborn@verizon.com

F04 Iowa Communications Network (INC) Fiber Optic
Timothy Flickinger (515) 491-3750
timothy.flickinger@iowa.gov

F05 Windstream Communications - Fiber Optic
Mark Hussman (402) 677-5874
Mark.Hussman@Windstream.com

F06 Unite Private Network - Fiber Optic
Wyatt Bohle (515) 361-0491
Wyatt.Bohle@upnfiber.com

F07 Clive Traffic - Fiber Optic
Jerry Freestone (515) 223-6231
JFreestone@cityofclive.com

F08 Consolidated Communications - Fiber Optic
Phillip Williams (515) 418-1937
Phillip.Williams@consolidated.com

F09 No Name (Unidentified) - Fiber Optic

F010 Aureon - Fiber Optic
Jeff Klocko (515) 830-0445
jeff.klocko@aureon.com

F011 Mediacom - Fiber Optic
Jerry Broughton (515) 246-2252
jbroughton@mediacomcc.com

F013 Metronet - Fiber Optic
Jeff Talbert (563) 505-1856
Jeff.Talbert@metronet.com

G MidAmerican Energy - Gas Line
Matthew Novy (515) 901-8274
Matthew.Novy@midamerican,com

G2 Unknown - Gas Line

GHP MidAmerican Energy - High Pres Gas Line
Matthew Novy (515) 901-8274
Matthew.Novy@midamerican.com

MidAmerican Energy - Riser Pole
Matthew Novy (515) 901-8274
Matthew.Novy@midamerican.com

MidAmerican Energy - Power Pole
Matthew Novy (515) 901-8274
Matthew.Novy@midamerican.com

SAN. City of Clive - Sanitary Sewer
Jim Hagelie (515) 223-6231
JHagelie@cityofclive.com

SAN.2 Des Moines Waste Water- Sanitary Sewer
Patrick Brown (515) 323-8027
PABrown@dmgov.org

SAN.3 City of Urbandale - Sanitary Sewer
John Larson (515) 331-6718
engpw@urbandale.org

ST S Storm Sewer Co. 1

T1 CenturyLink - Telephone Line
Ashlie Clements (906) 284-2821
Ashlie.Clements@lumen.com

T2 Comm Data Link - Telephone Line

TV Mediacom - TV Cable
Jerry Broughton (515) 246-2252
jbroughton@mediacomcc.com

TV2 Proposed Route - TDI Cable TV Cable

W Clive Public Works Water - Water Line
Jim Hagelie (515) 223-6231
JHagelie@cityofclive.com

W2 Urbandale Water - Water Line
Gail Palmer (515) 278-3940
gpalmer@urbandalewater.org

W3 Des Moines Water Works - Water Line
Carla Schumacher (515) 323-6227
cschumacher@dmww.com

PLAN VIEW LINE STYLE & COLOR LEGEND OF STORM SEWER SHEETS

Yellow	(4)	Proposed Pavement Shading
Light Brown	(236)	Proposed Grading Shading
Pink	(5)	Previously Constructed Pipe or Structure
Light Blue	(230)	Proposed Storm Structure

- Proposed Pipe
- Direction of Pipe Flow
- Plug and Abandon Existing Pipe or Structure
- Removal of Existing Pipe or Structure

PROFILE VIEW LINE STYLE & COLOR LEGEND OF STORM SEWER SHEETS

- Existing Ground
- Proposed Ground
- Existing Pipe or Structure
- Proposed Structure
- Proposed Pipe Flow Line
- Proposed Pipe

- Reference Point / Station — Survey Line
- Section Corner
- Ground Line Intercept
- Saw Cut
- Guardrail
- Clearing & Grubbing Area
- Pavement Removal

RIGHT-OF-WAY LEGEND

- Proposed Right-of-Way
- Existing and Proposed Right-of-Way
- Easement and Existing Right-of-Way
- Borrow
- Easement (Temporary)
- Easement
- Excess
- A/C Access Control

STORM SEWER LEGEND AND SYMBOL INFORMATION SHEET

(COVERS SHEET SERIES M)

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER M.3

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V2

WALNUT TWP.
T-79N R-25W
SEC. 29
City of Urbandale

U.S. 6 / Hickman Road

Sta. 2675+58.04, 72.64' LT
CONNECT TO EXISTING
24" CONCRETE PIPE WITH
TYPE C-1 CONNECTION

Sta. 2675+71.94, 32.90' LT
43
SW-510L

Sta. 2674+27.44, 63.83' LT
BR5
SW-512 (24" Case 1)

Sta. 2674+89.70, 31.00' LT
44
SW-508L

Sta. 1672+97.00, 31.00' RT
BR4
SW-507 INTAKE TOP ONLY
WITH FLUME

Sta. 1673+20.78, 31.00' LT
39
SW-507L

Sta. 2672+67.00, 31.00' RT
BR1
SW-507 INTAKE TOP ONLY
WITH FLUME

Sta. 2673+18.30, 31.00' RT
40
SW-507R

Sta. 1675+00.70, 17.00' RT
41
SW-507R

Sta. 1675+06.15, 34.37' RT
CONNECT TO EXISTING
30" CONCRETE PIPE WITH
TYPE C-1 CONNECTION

Sta. 25418+14.48, 72.76' RT
BR3
SW-401 (48")

Sta. 25418+10.36, 55.88' RT
BR2
SW-512 (36 in.)

I-80/35
SB/WB

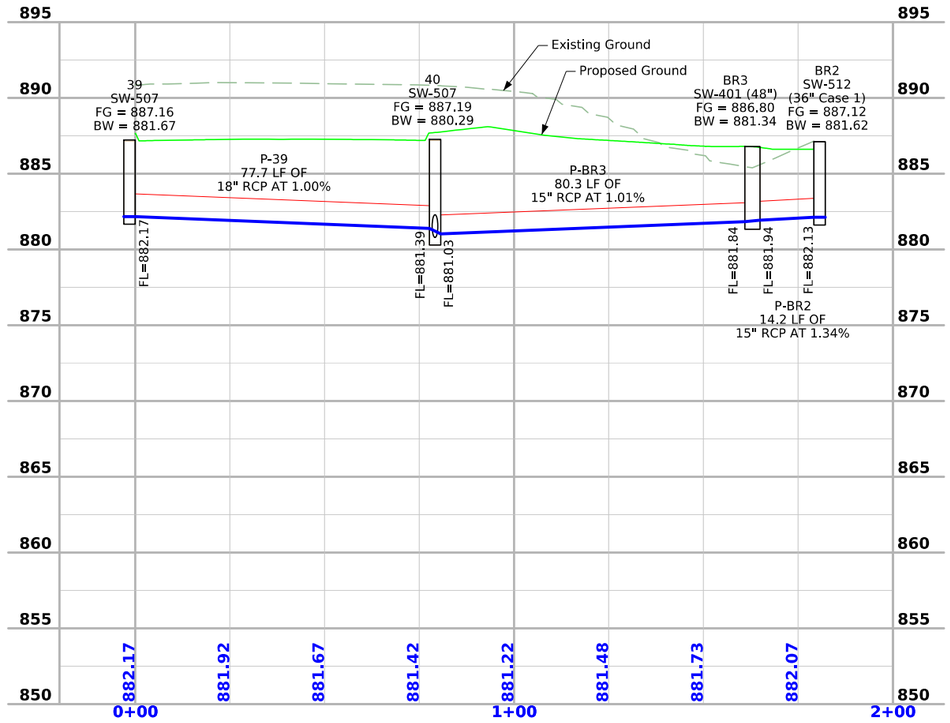
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NB/EB

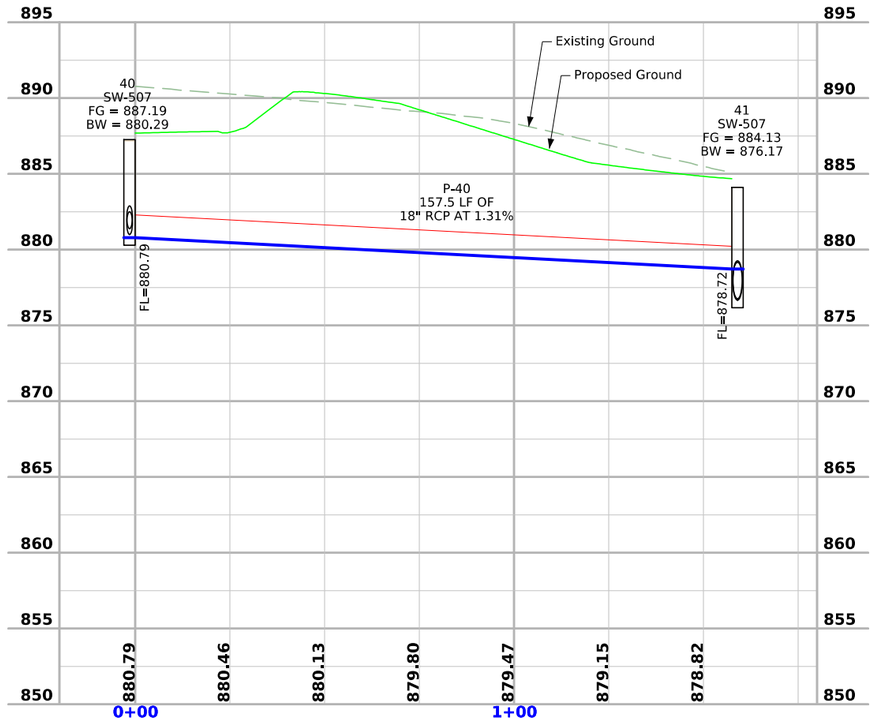
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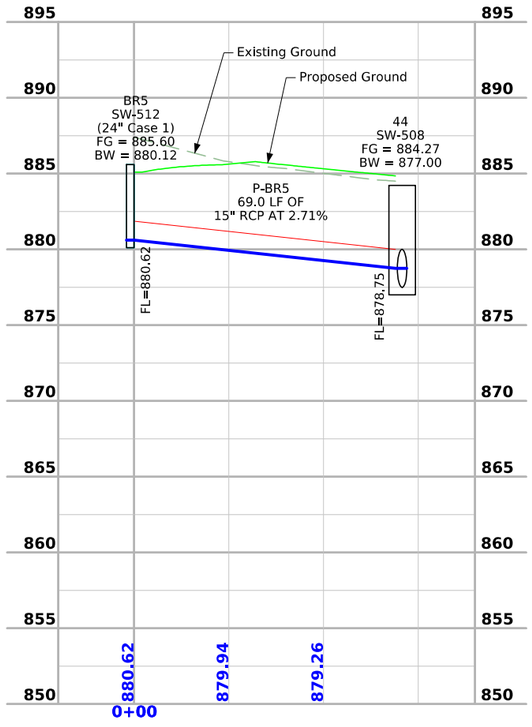
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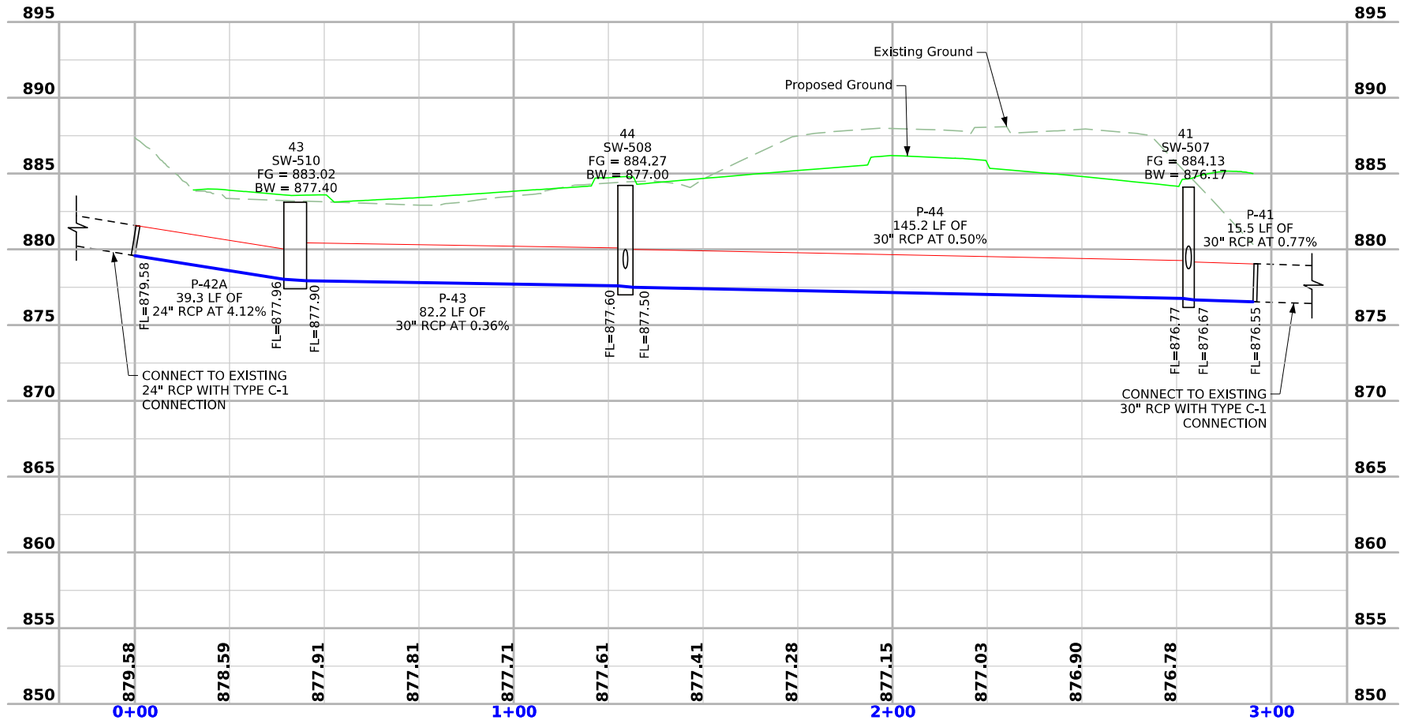
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V2









FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER M.5

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V2

I-80/35 NB/EB

U.S. 6 / Hickman Road

14417+00
14418+00
14419+00
1678+00
1679+00
677+00
678+00
2678+00
16420+00
16421+00
16422+00
2679+00
679+00
1680+00
680+00
2680+00
1681+00
24418+00
24419+00

Sta. 14418+53.09, 63.55' LT
209 EXISTING
SW-401 (48")

Connect To
Existing Manhole

Remove Existing Pipe
Re-Use 24 LF.
Refer to F Sheets &
J Sheets for Details
& Sequencing

Sta. 14418+81.03, 3.32' LT
46
SW-509L

Sta. 1678+73.00, 31.00' RT
BR6
SW-507 INTAKE TOP ONLY
WITH FLUME

Sta. 14417+99.15, 52.26' RT
CONNECT TO EXISTING
24" RCP WITH TYPE
C-1 CONNECTION

Remove/Abandon Existing
Pipe and Manhole
Refer to F Sheets &
J Sheets for Details
& Sequencing

Sta. 24418+60.73, 64.32' LT
BR7
SW-512 (24" Case 1)

Sta. 24418+75.44, 51.26' LT
53
SW-401 (72")

Sta. 24418+76.83, 56.32' RT
55
DR-201 (30")

Sta. 1679+79.25, 31.00' RT
47
SW-507R

Sta. 2679+04.28, 17.00' RT
BR8
SW-507 INTAKE TOP ONLY
WITH FLUME

Sta. 2679+73.87, 17.00' LT
52
SW-510L

Sta. 16419+72.25, 50.31' LT
206
SW-401 (48")

Sta. 16420+28.00, 3.00' LT
51
SW-509L

Sta. 16420+39.00, 14.00 LT
50A
SW-401 (48")

Sta. 16420+39.00, 3.00' LT
50
SW-545R

Sta. 16420+59.00, 3.00' LT
49
SW-509R

Remove & Reinstall
32 LF of Existing Pipe
Refer to F Sheets
& J Sheets for Details
& Sequencing

Remove Existing Pipe
Refer to F Sheets &
J Sheets for Details
& Sequencing

Sta. 16421+15.79, 75.68' RT
BR9
SW-512 (36" Case 1)

Sta. 16421+13.75, 97.05' RT
BR10
SW-401 (48")

PC 680+71.63

P-209 P-206 P-50A P-51 P-49 P-50 P-52 P-54 P-46 P-47 P-53 P-BR7 P-BR9 P-BR10

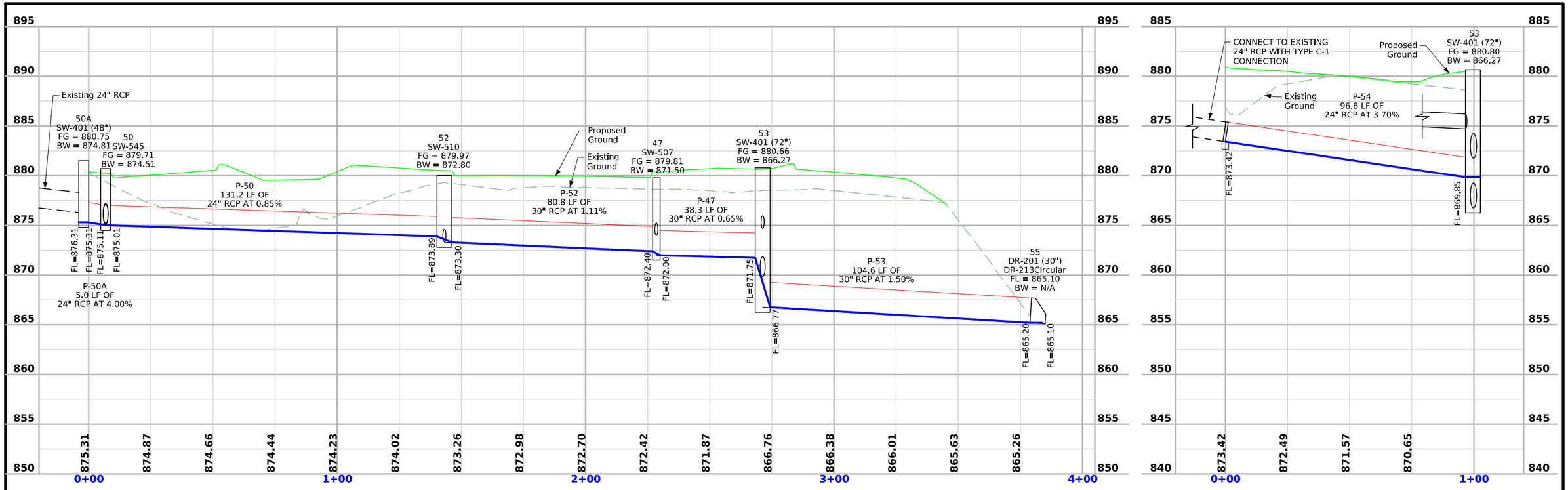
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U.S. Hwy 6
(Hickman Road)

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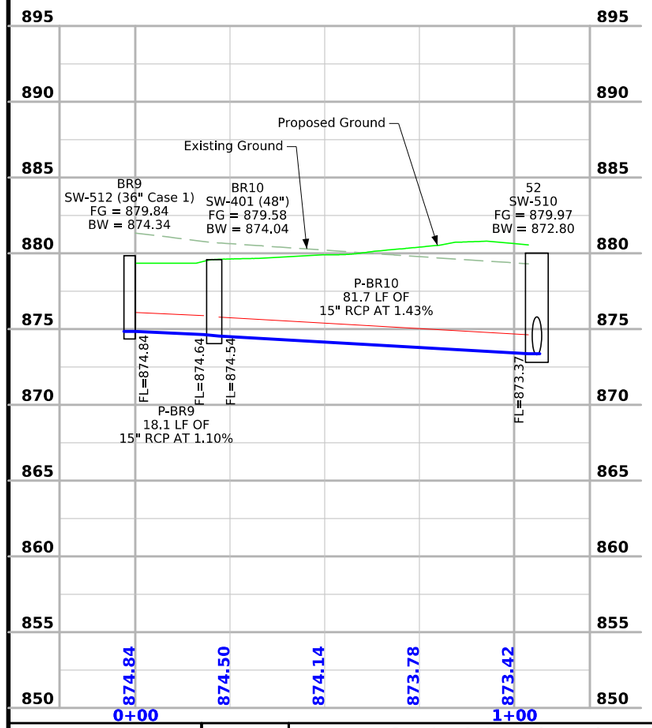
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V2



FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER M.8

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V2

U.S. 6 / Hickman Road

Remove Existing Pipe
Refer to F Sheets &
J Sheets for Details
& Sequencing

Sta. 1681+71.00, 31.00' LT
64
SW-509

Sta. 1683+80.00, 45.0' LT
65
SW-545L

Sta. 1684+12.00, 44.78' LT
69
SW-545L

Sta. 1684+42.00, 43.31' LT
68
SW-545R

Connect To
Existing Intake

Critical Crossing
Of 36" DMWW
Feeder Main

Remove Existing Pipe
Refer to F Sheets &
J Sheets for Details
& Sequencing

Sta. 1685+96.73, 66.76' LT
66EX
Existing SW-513 (4' X 4')

Sta. 1685+96.62, 38.99' LT
67
SW-401 (72")

Critical Crossing
Of 36" DMWW
Feeder Main

Sta. 2684+10.24, 22.53' LT
69A
SW-401 (60")

Sta. 2684+06.50, 27.0' RT
70
SW-545L

Sta. 2684+37.00, 27.00' RT
71
SW-545L

Sta. 2683+75.00, 27.0' RT
72
SW-545R

Sta. 2680+81.00, 31.00' RT
56
SW-509R

Sta. 2681+74.45, 51.45' RT
57
SW-401 (84")

Sta. 2684+06.50, 40.00' RT
73
SW-401 (84")

Sta. 24419+56.64, 63.98' RT
82
DR-201(42")

Sta. 24418+76.83, 56.32' RT
55
DR-201 (30")

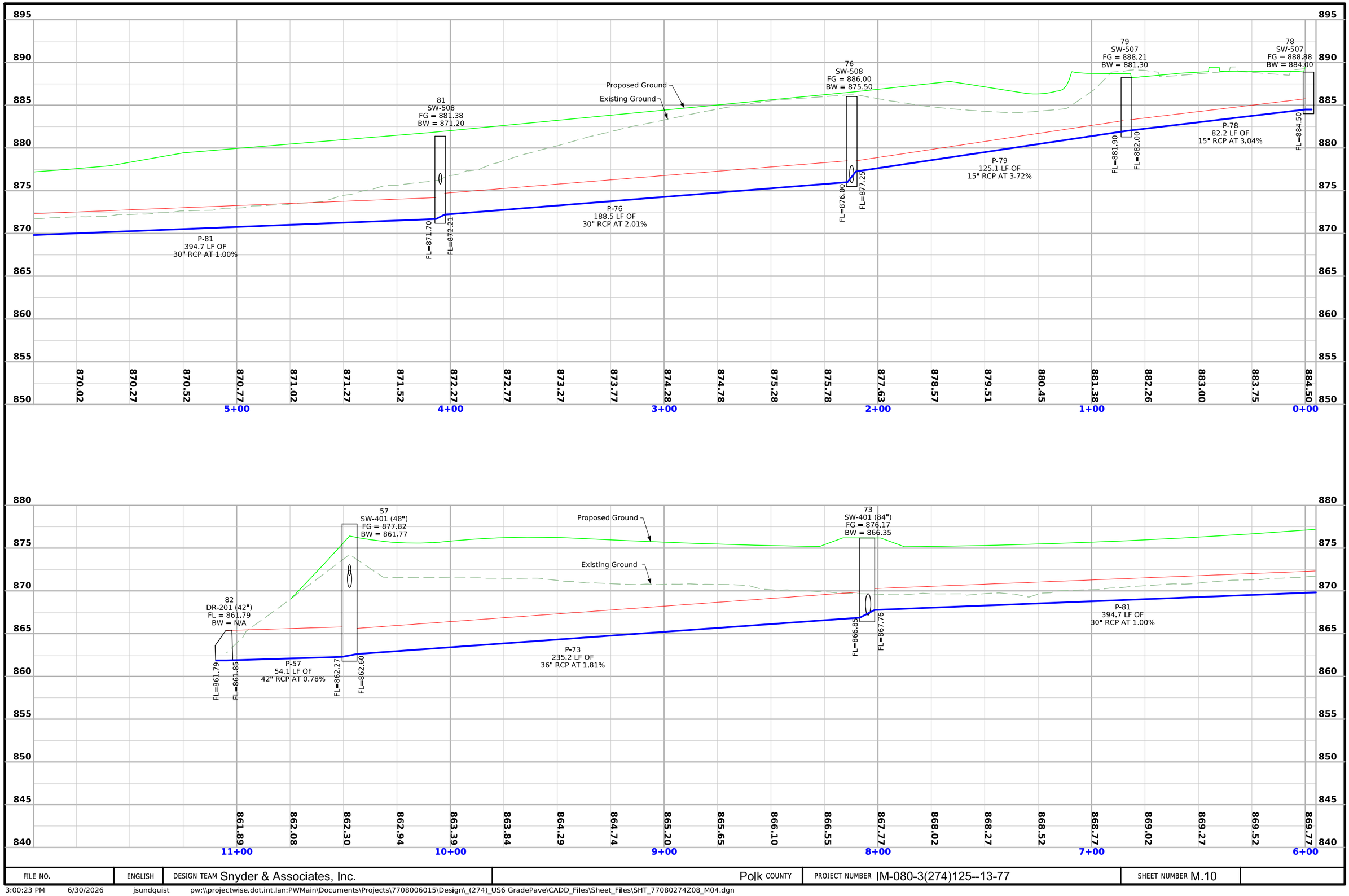
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FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER M.9	U.S. Hwy 6 (Hickman Road)

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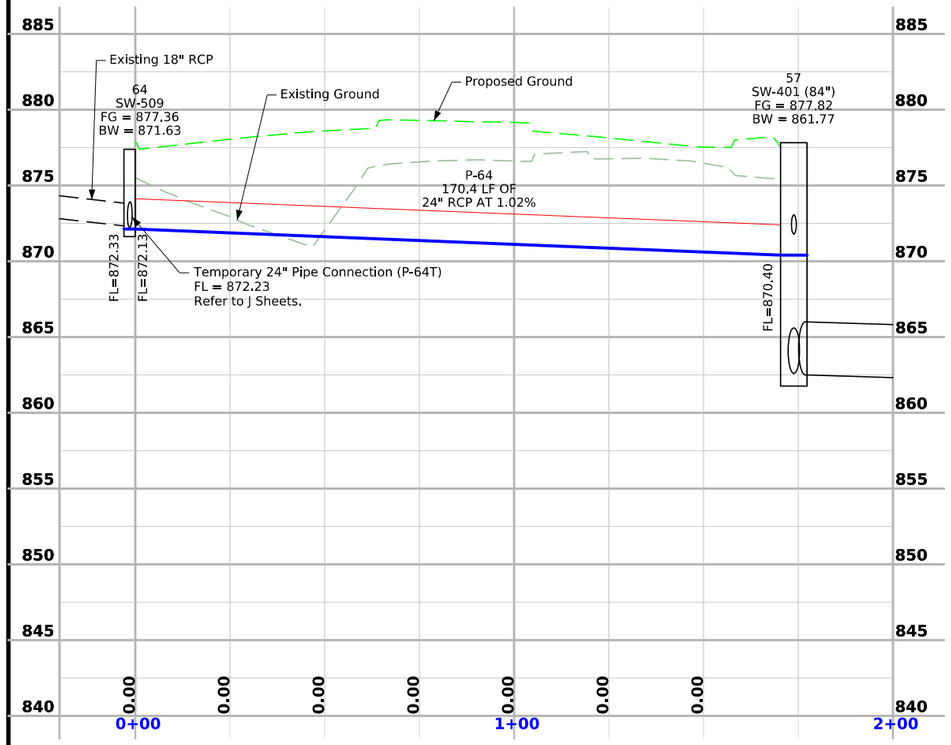
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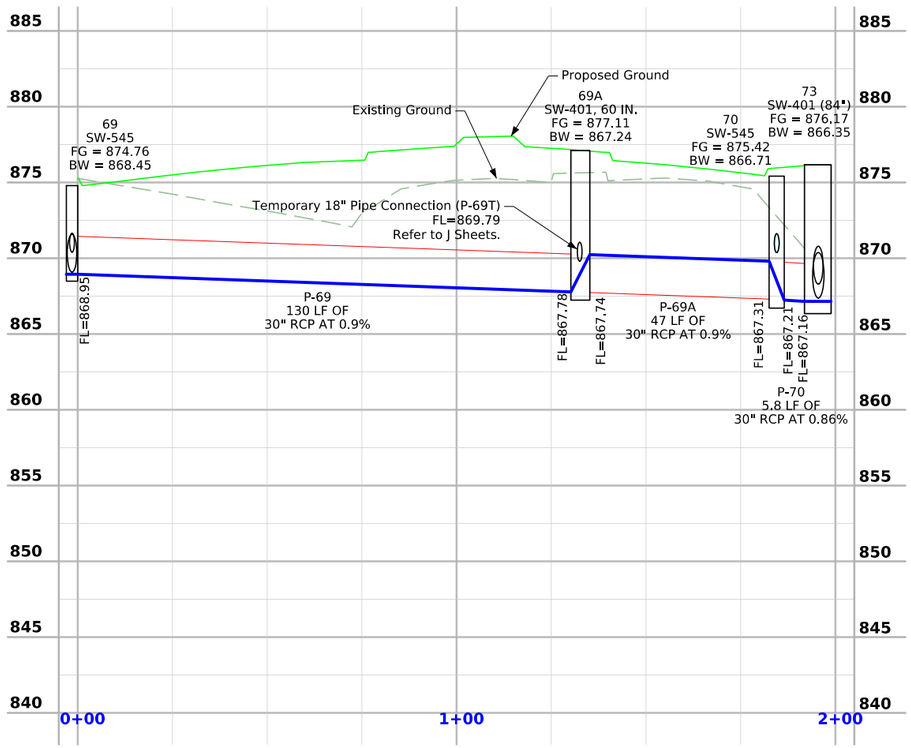


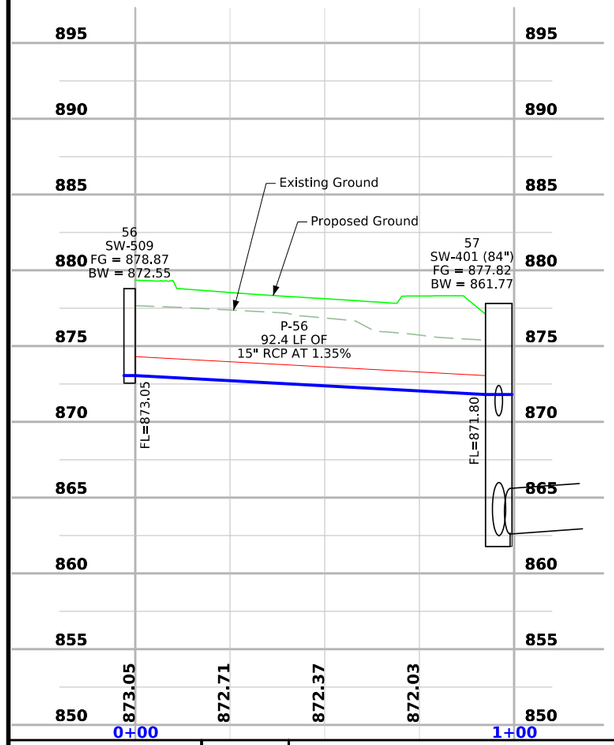
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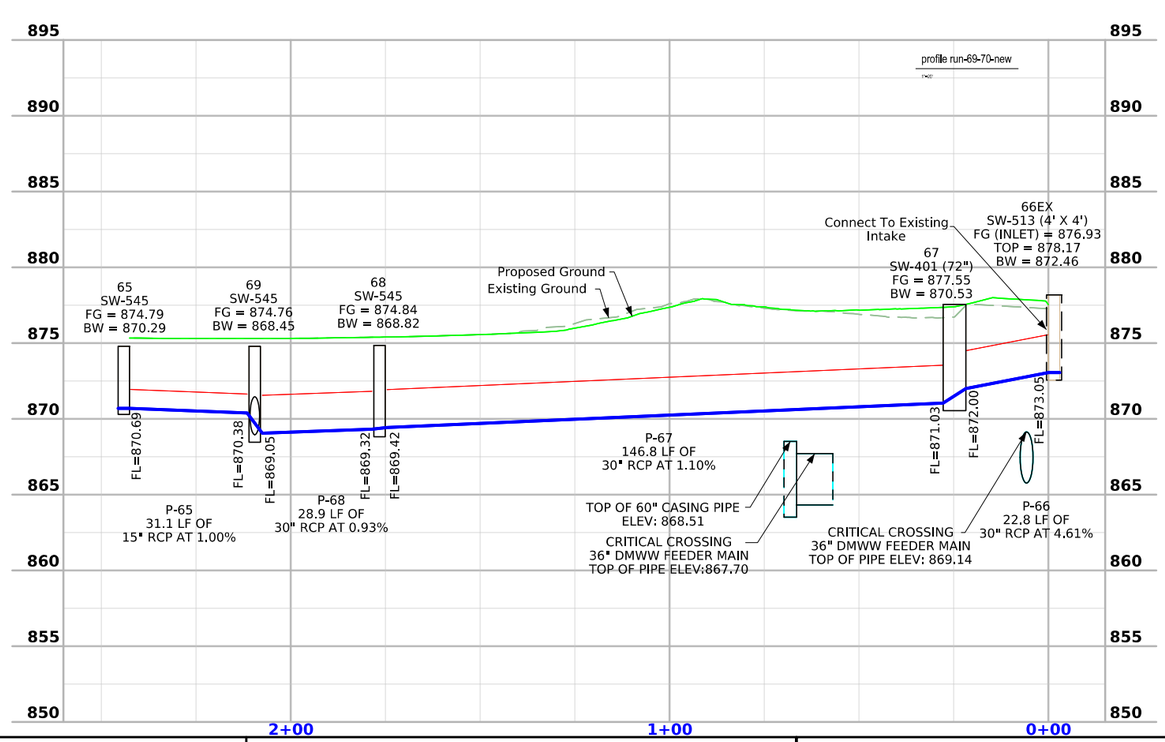
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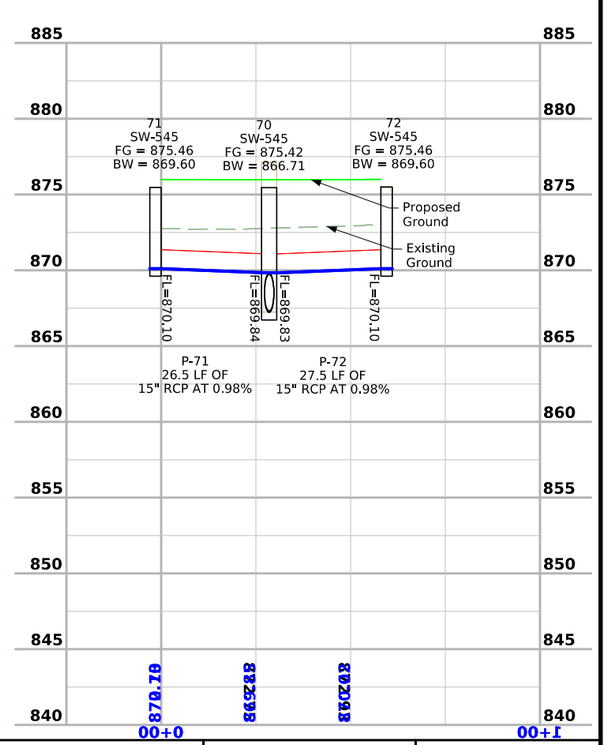
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V2

U.S. 6 / Hickman Road

Sta. 3693+00.00, 29.00' LT
84
SW-501

Sta. 3693+00.00, 29.25' RT
83
SW-501

Sta. 3693+00.00, 87.00' LT
85
DR-201 (15")

Sta. 689+60.64, 107.51' LT
74
SW-401 (48")

Sta. 687+67.50, 50.0' LT
80
SW-507R

Sta. 689+60.00, 50.00' LT
75
SW-507R

Sta. 687+67.50, 60.0' RT
81
SW-508L

Sta. 689+60.00, 60.0' RT
76
SW-508L

Sta. 3690+55.00, 51.53' LT
79
SW-507R

Sta. 3690+55.00, 30.66' RT
78
SW-507L

3693+00
3692+00
3691+00
3690+00
687+00
688+00
689+00
690+00
691+00
692+00

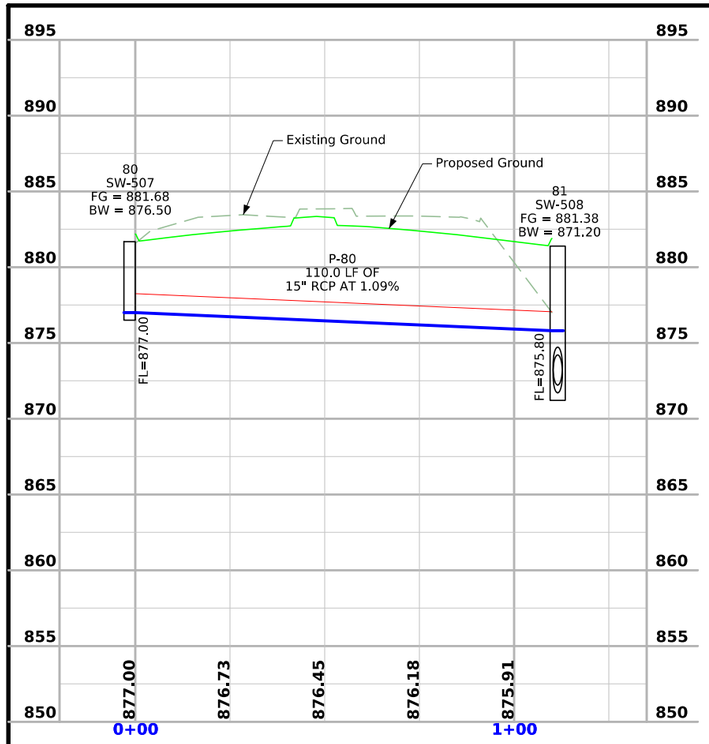
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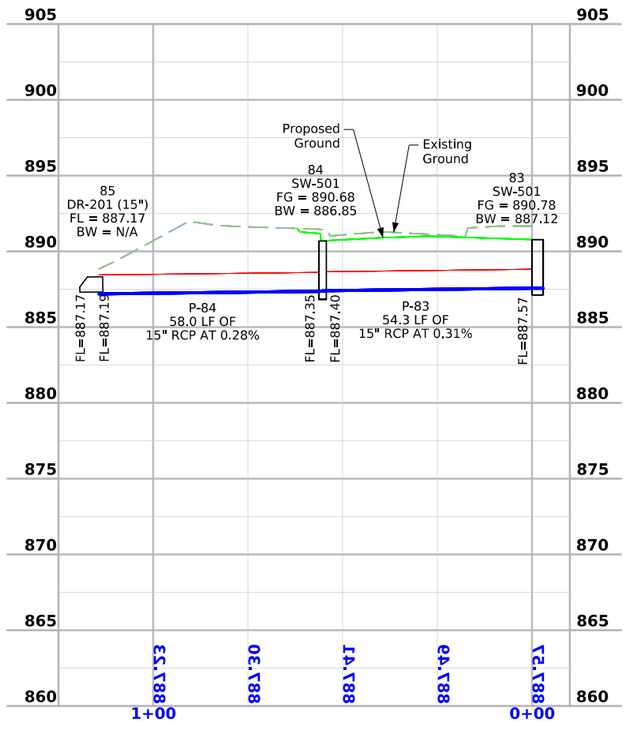
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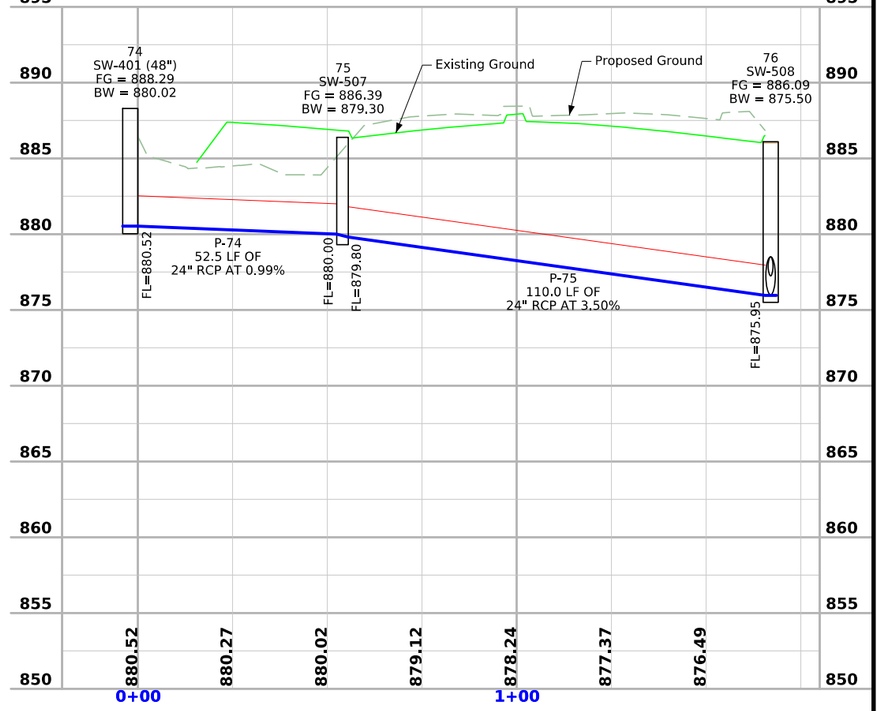
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V2



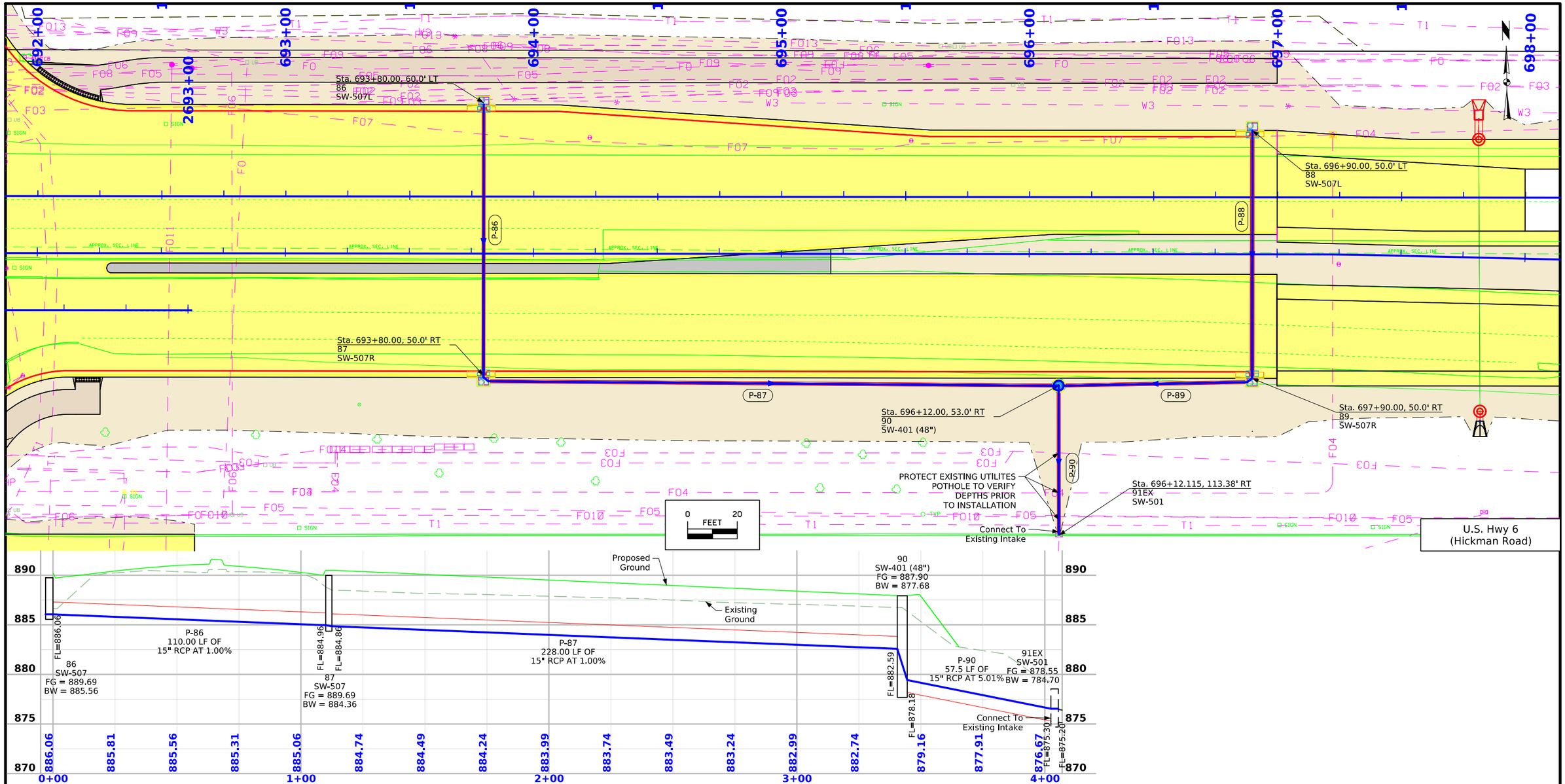




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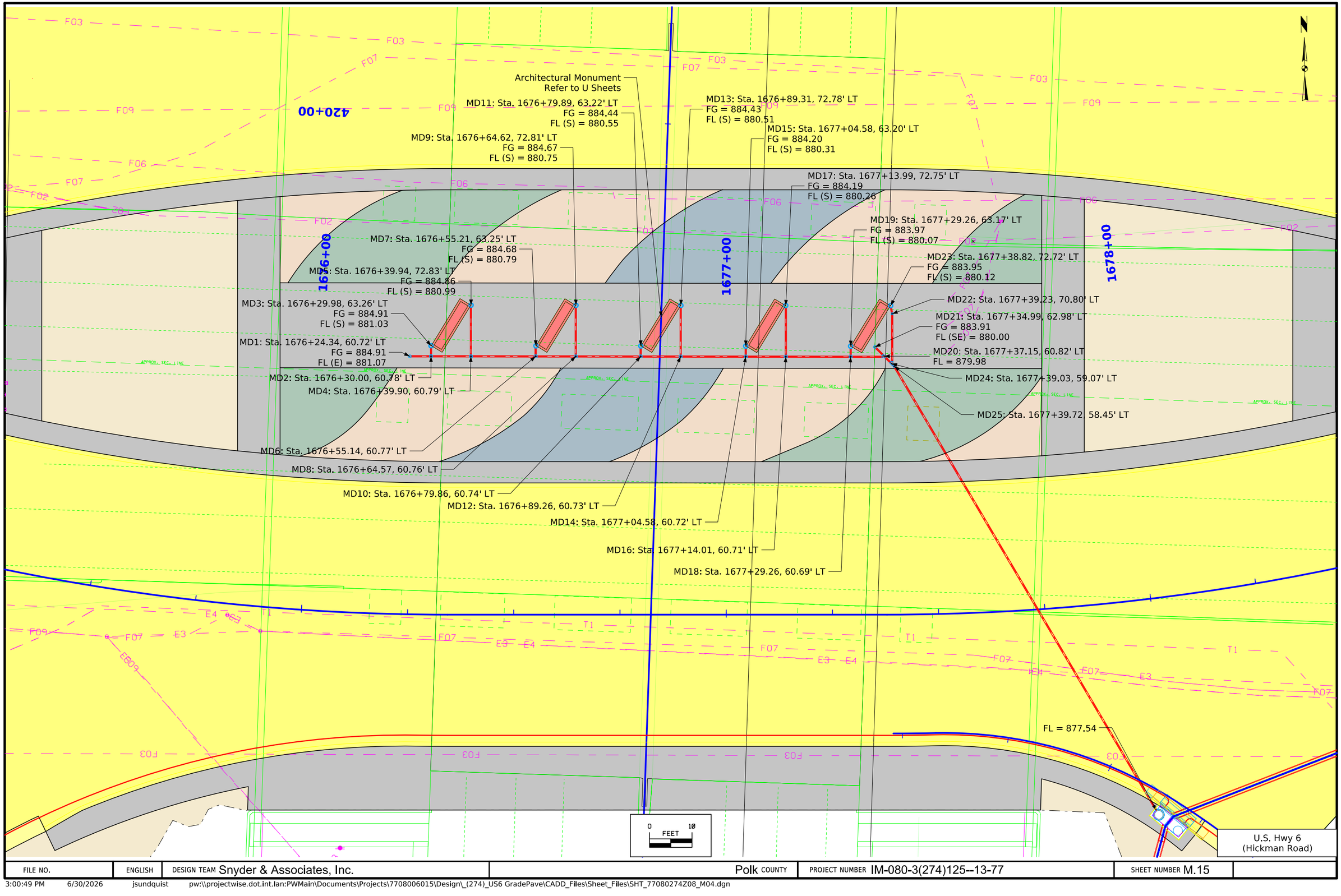
V2



FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER M.14

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V2



FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER M.15	

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V2

Δ = 12°46'25.14" (LT)
T = 55.97'
L = 111.47'
R = 500.00'
E = 3.12'

Install 6" Hydrant Assembly
STA. 3689+83.25, 48.00' LT (SR111)

STA. 3689+87.78, 35.00' RT (SR111)
STA. 4+93.00 (WM CLIVE)
Connect To Existing 12"
Water Main With 12" X 12" Tee

Protect Fiber Lines
Protect Storm Sewer

12" 45° Bend
STA. 3686+46.26, 29.54' RT (SR111)
STA. 1+22.37 (WM CLIVE)

12" 11.25° Bend
STA. 3686+47.56, 29.82' RT (SR111)
STA. 1+24.00 (WM CLIVE)

Protect Gas Lines

12" 45° Bend
STA. 3686+79.49, 48.22' RT (SR111)
STA. 1+48.22' (WM CLIVE)

Protect Fiber Lines

Begin Trenchless Construction
STA 2687+43.09, 36.91' RT (SR111)
STA 2+40, 0.00' RT (WM CLIVE)

6" Hydrant Assembly
STA. 3688+50.00, 40.00' RT (SR111)
STA. 3+55.20, 5.00' RT (WM CLIVE)

Protect Fiber Lines
Proposed 12" Water Main

End Trenchless Construction
STA 3689+69.78, 35.00' RT (SR111)
STA 4+75, 0.00' RT (WM CLIVE)

Install 8" Gate Valve
STA. 3689+73.00, 35.00' RT (SR111)
STA. 4+78.23, 0.00' RT (WM CLIVE)

WALNUT TWP.
T-79N R-25W
SEC. 33
City of Clive

0 FEET 20

Clive Water Main

Existing Ground Above Watermain
Proposed Ground Above Watermain

Protect Existing Gas Lines
Field Verify Location Prior To Construction

Existing 12"
Storm Sewer
EST FL = 866.33

5.5' Min.
Cover

Connect To Existing Water Main
Elev: 861.56
Field Verify Elevation Prior To Construction

3.2' Separation
(Maintain
Min. 1.5')

STA 2+40
Begin Trenchless
Construction

Proposed 6" Hydrant

Proposed 12" Water Main

Connect To Existing
12" Water Main With 12" X 12" Tee
Elev: 880.25
Field Verify Elevation Prior To Construction

Proposed 12"
Gate Valve

STA 4+75
End Trenchless
Construction

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER MWM.1	

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V2

Refer to Sheet D.1 for Survey Symbols and Utility Legend

Index of Soil Sheets

Q.1	Soils Legend and Symbol Information Sheet
Q.2 - Q.7	U.S Highway 6 (Hickman Road)
Q.8	111th Street

PLAN VIEW COLOR LEGEND OF SOILS SHEETS

LINEWORK	Design Color No.	
Green	(2)	Existing Topographic Features and Labels
Purple (Halo)	(15)	Backslope Drains
Blue	(1)	Proposed Alignment, Stationing, Tic Marks, and Alignment Annotation
SHADING	**Design Color No.**	
Brown, Light	(236)	Core Out

PROFILE VIEW COLOR LEGEND OF SOILS SHEETS

LINEWORK	Design Color No.	
Blue	(1)	Proposed Alignment, Stationing, and Alignment Annotation
Green	(2)	Existing Ground Line Profile
Green, Med	(2)	Topsoil
Green, Med	(2)	Slope Dressing Only
Orange	(6)	Loam
Aqua (Cyan)	(7)	Class 10
Brown, Med	(4)	Sand
Red	(3)	Unsuitable A
Pink, Dark	(13)	Unsuitable B
Pink	(11)	Unsuitable C
Red	(3)	Shale
Red	(3)	Waste
Gray, Light	(48)	Broken and Weathered Rock
Gray, Med	(80)	Rock
Gray, V.Dark	(128)	Boulders

PATTERN AND SYMBOL LEGEND OF SOILS SHEETS

Date(s) Drilled _____

Drill	Dig/Core	
Water	Treatment	Sandstone
Dry	Sand Blanket	Unsuitable A
Sample	Soil Remediation Area	Unsuitable B
Plugged	Select Soil	Unsuitable C
Moisture	Select Sand	Sandy Soil
Shelby	Slope Dressing Only	Boulders
Blow Count	Broken and Weathered Rock	Shale
Dens. Core	Rock	

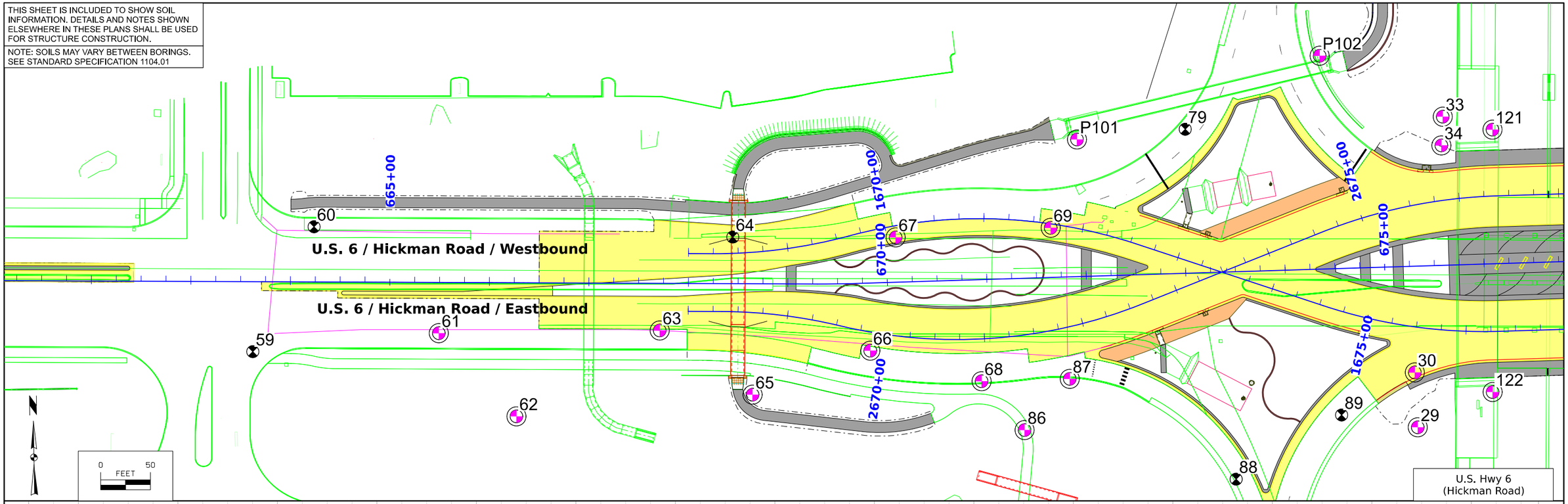
NOTE: Sounding and test boring data shown in the plans were accumulated for designing and estimating purposes. Their appearance on the plans does not constitute a guarantee that conditions other than those indicated will be encountered. Details and notes shown elsewhere shall be used for roadway and structure construction.

SOILS LEGEND AND SYMBOL INFORMATION SHEET

(COVERS SHEET SERIES Q)

THIS SHEET IS INCLUDED TO SHOW SOIL INFORMATION. DETAILS AND NOTES SHOWN ELSEWHERE IN THESE PLANS SHALL BE USED FOR STRUCTURE CONSTRUCTION.

NOTE: SOILS MAY VARY BETWEEN BORINGS. SEE STANDARD SPECIFICATION 1104.01



SEE NEXT SHEET FOR PROFILE VIEW.

FOR ADDITIONAL SOILS INFORMATION, REFER TO THE IM-080-3(264)124--13-77 PLAN SET Q-SHEETS.

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.\ Terracon	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER Q.2

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V2

CUT MOISTURE
CUT DENSITY (PCF)
PLASTIC LIMIT

64 | 19.8 | 107 | ,

67 | 17.1 | 111 | ,

69 | 17.9 | 111 | , | 33.5 | 86 | , | 24.6 | 98 | ,

BORING TO BORING GROUNDLINE

PROPOSED GRADE

60 LT.25: A: TOPSOIL 6; 3; 9; B: FILL-DARK BROWN AND YELLOW BROWN SANDY CLAY 12

64 LT.16: A: TOPSOIL 9; B: FILL-DARK BROWN AND BROWN SANDY CLAY 9; 7; C: BROWN FINE TO COARSE SAND; $-H_2O-$; 10; D: YELLOW BROWN SANDY CLAY

67 RT.12: A: TOPSOIL; B: FILL-DARK BROWN AND GRAY STIFF SANDY CLAY 8; C: BROWN GRAY WITH YELLOW BROWN FIRM SANDY CLAY 11; 11; D: GRAY FIRM SANDY CLAY; $-H_2O-$ 11

69 RT.4: A: GRAVEL; 11; B: BROWN GRAY FIRM SANDY CLAY 9; 6; 4; C: GRAY STIFF CLAY; 4; $-H_2O-$; 4; 11; 8; D: GRAY FINE SAND; 7; E: BROWN GRAY STIFF CLAY 9

30 RT.45: A: TOPSOIL; B: FILL-BROWN GRAY STIFF CLAY 6; $-H_2O-$; 4; C: GRAY CLAYEY SAND; 6; 7; D: GRAY STIFF SANDY CLAY; 7; 4; E: GRAY STIFF CLAY; 4; 9

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NOTE: SOILS MAY VARY BETWEEN BORINGS. SEE STANDARD SPECIFICATION 1104.01

U.S. Hwy 6 Westbound (Hickman Road)

1662+00 1663+00 1664+00 1665+00 1666+00 1667+00 1668+00 1669+00 1670+00 1671+00 1672+00 1673+00 1674+00 1675+00 1676+00

CUT MOISTURE
CUT DENSITY (PCF)
PLASTIC LIMIT

61 | 23.3 | , | , | 19.3 | 108 | ,

BORING TO BORING GROUNDLINE

PROPOSED GRADE

61 RT.23: A: TOPSOIL 4; 11; B: FILL-YELLOW BROWN AND DARK BROWN STIFF TO FIRM SANDY CLAY 11; 4; COBBLES; C: BROWN GRAY STIFF SANDY CLAY; 11; D: YELLOW BROWN WITH BROWN GRAY FIRM SANDY CLAY; $-H_2O-$; 11; E: GRAY FIRM SANDY CLAY 11

63 RT.19: A: CONCRETE; B: FILL-FINE TO COARSE SAND 8; 63 C3 5; C: FILL-YELLOW BROWN AND BROWN GRAY STIFF TO FIRM SANDY CLAY 10; 63 C5 COBBLES; 46; 7; 63 D1 D: DARK BROWN STIFF SANDY CLAY; 6; $-H_2O-$; 9; E: GRAY FIRM SANDY CLAY; 7; 15

66 RT.18: A: GRAVEL; 66 B1 14; B: FILL-YELLOW BROWN AND DARK BROWN STIFF TO FIRM SANDY CLAY; 66 C1 4; 7; C: YELLOW BROWN WITH BROWN GRAY STIFF SANDY CLAY; 7; 66 D2 $-H_2O-$; 5; D: GRAY STIFF SANDY CLAY; 7; 14; 7; E: GRAY STIFF CLAY; 5; 11; F: BROWN GRAY COMPLETELY WEATHERED SHALE; 60; G: GRAY MODERATELY WEATHERED FIRM SHALE 48

68 RT.42: BORING 68 SHOWN HERE FOR CLARITY

87 RT.51: A: TOPSOIL; B: FILL-DARK BROWN CLAY 87 C1 10; C: BROWN GRAY STIFF SANDY CLAY; 10; 87 D2 D: GRAY STIFF SANDY CLAY; 6; E: GRAY STIFF CLAY; 6; $-H_2O-$; 11; F: GRAY FIRM SANDY CLAY; 10; 10; G: BROWN FINE TO MEDIUM SAND

68 RT.42: A: TOPSOIL; B: FILL-BROWN AND YELLOW BROWN STIFF SANDY CLAY 68 B1 12; C: YELLOW BROWN TO BROWN GRAY FIRM SANDY CLAY 15; 6; 68 D2 D: GRAY STIFF CLAY WITH SAND; 3; 7; E: GRAY STIFF CLAY; $-H_2O-$; 13; 9; F: BROWN FINE TO COARSE SAND; 12; 23; G: YELLOW BROWN HIGHLY WEATHERED SHALE 49

34 LT.55: A: TOPSOIL; B: GRAY BROWN FIRM SANDY CLAY 11; 11; 7; C: GRAY STIFF SANDY CLAY; 6; $-H_2O-$; 7; 8; 7; D: GRAY STIFF CLAY; 7

SHELBY TUBE CORE DATA

CORE NO.	63 C3	63 C5	63 D1	66 B1	66 C1	66 D2	68 B1	68 D2	87 C1	87 D2
DEPTH IN FEET	9-11	14-16	21.5-23.5	2-4	6-8	21-23	1.5-3.5	16.5-18.5	1.5-3.5	11.5-13.5
CLASSIFICATION (AASHTO)	-	-	-	-	-	-	A-6(5)	A-6(9)	-	-
COEFF.CONSOL. (SQ. FT /DAY)	-	-	-	-	-	-	-	-	-	-
TRIAXIAL COMPRESSION	UC	UC	UC	UC	UC	UC	UC	UC	UC	UC
COHESION - PSF	2330	640	1890	1505	1220	1315	610	1170	1470	1745
FRICTION COEFF.	-	-	-	-	-	-	-	-	-	-
MOISTURE CONTENT %	19.6	18.4	26.4	13.8	19.9	19.5	21	22.8	18.5	24
DRY DENSITY - PCF	109	107	97	120	103	105	99	105	108	99

CU-CONSOLIDATED UNDRAINED
UU-UNCONSOLIDATED UNDRAINED
UC-UNCONFINED COMPRESSION (c=1/2 Qu)

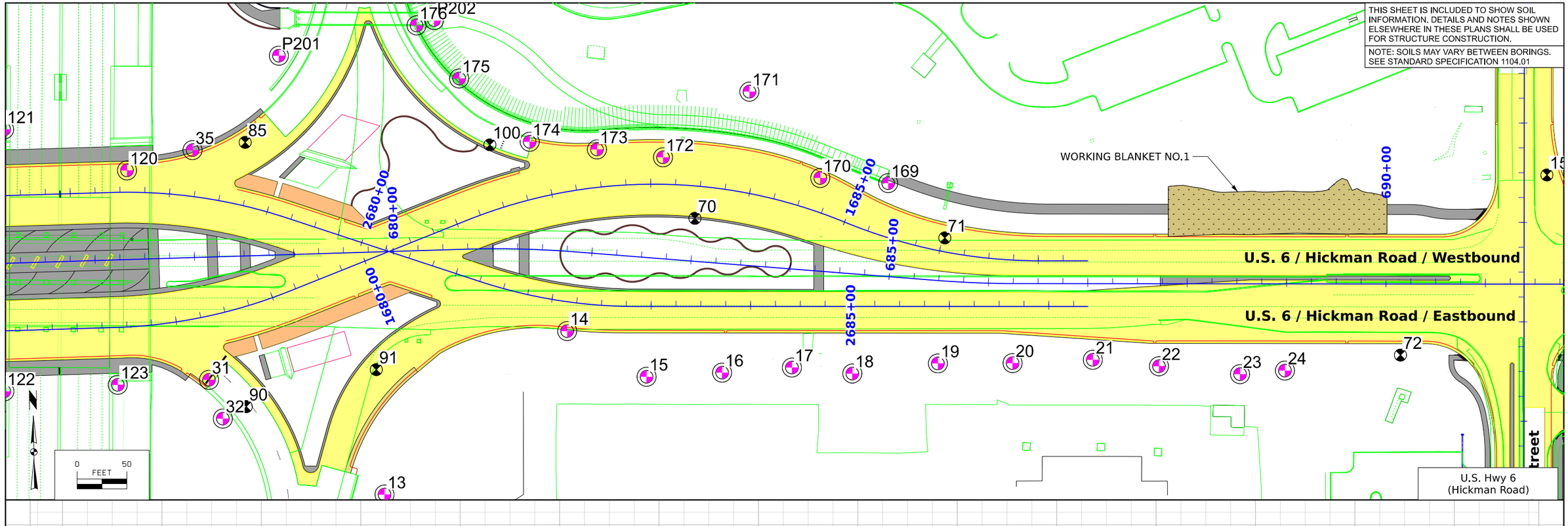
U.S. Hwy 6 Eastbound (Hickman Road)

2662+00 2663+00 2664+00 2665+00 2666+00 2667+00 2668+00 2669+00 2670+00 2671+00 2672+00 2673+00 2674+00 2675+00 2676+00

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.\ Terracon	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER Q.3

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V2



SEE NEXT SHEET FOR PROFILE VIEW.

FOR ADDITIONAL SOILS INFORMATION, REFER TO THE IM-080-3(264)124--13-77 PLAN SET Q-SHEETS.

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.\ Terracon	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER Q.4

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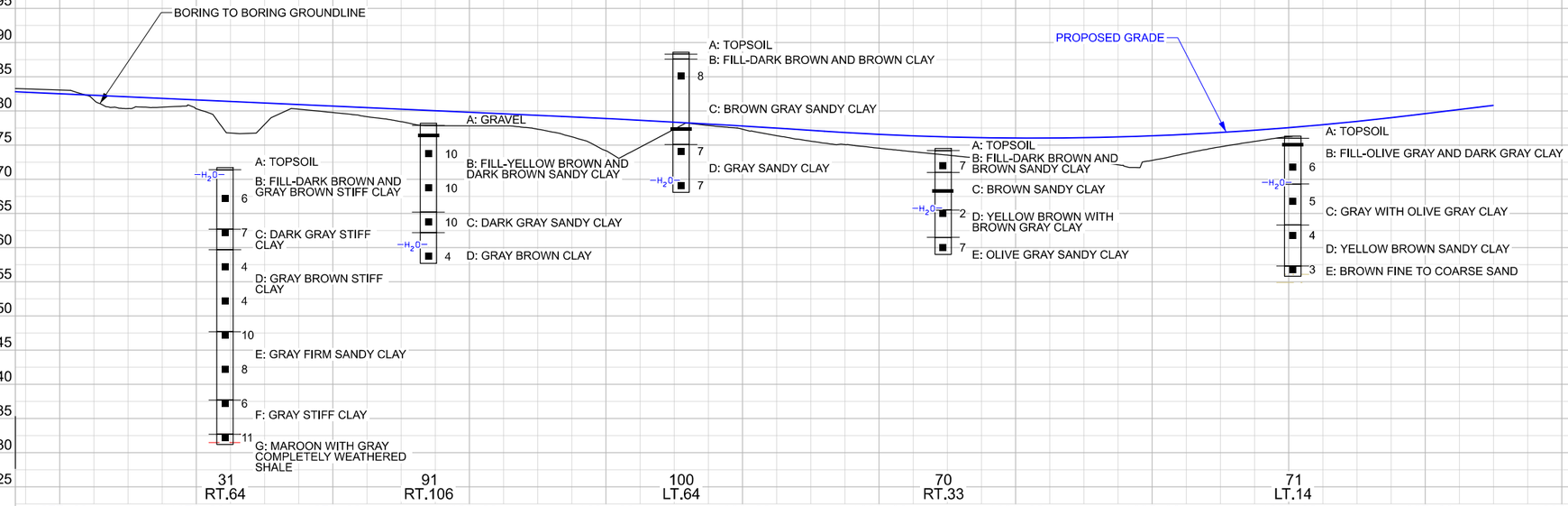
V2

CUT MOISTURE
CUT DENSITY (PCF)
PLASTIC LIMIT

91	8.6	123	,
100	24.7	98	,
70	19.8	105	,
71	24.4	100	,

THIS SHEET IS INCLUDED TO SHOW SOIL INFORMATION. DETAILS AND NOTES SHOWN ELSEWHERE IN THESE PLANS SHALL BE USED FOR STRUCTURE CONSTRUCTION.

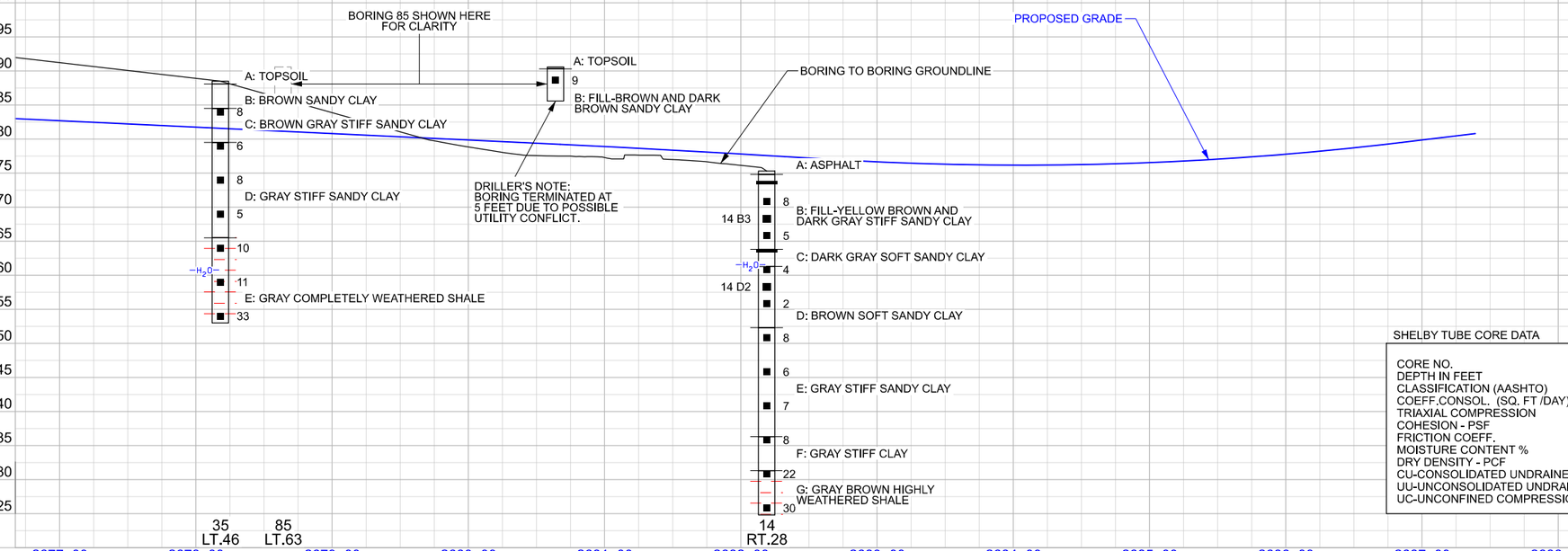
NOTE: SOILS MAY VARY BETWEEN BORINGS. SEE STANDARD SPECIFICATION 1104.01



U.S. Hwy 6 Westbound
(Hickman Road)

CUT MOISTURE
CUT DENSITY (PCF)
PLASTIC LIMIT

14	6.3	113	,
	22.3	90	,



SHELBY TUBE CORE DATA

CORE NO.	14 B3	14 D2
DEPTH IN FEET	6.5-8.5	16.5-18.5
CLASSIFICATION (AASHTO)	A-6(9)	A-6(7)
COEFF.CONSOL. (SQ. FT /DAY)	-	-
TRIAXIAL COMPRESSION	-	CU
COHESION - PSF	-	720
FRICTION COEFF.	-	-
MOISTURE CONTENT %	21.3	24.8
DRY DENSITY - PCF	102	99

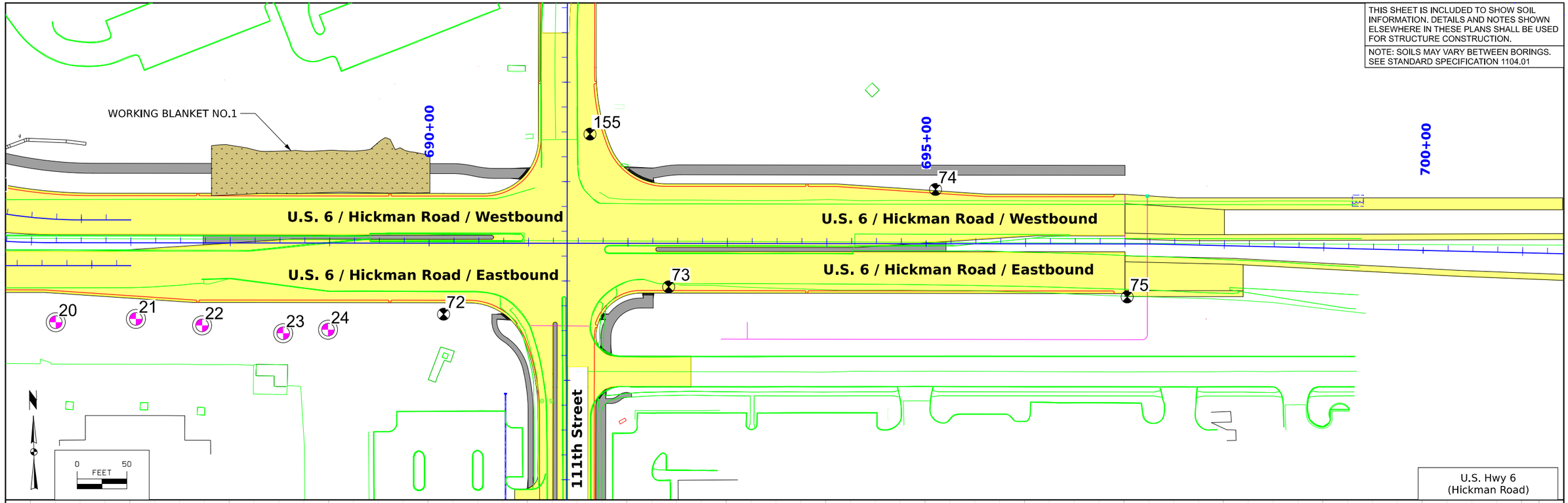
CU-CONSOLIDATED UNDRAINED
UU-UNCONSOLIDATED UNDRAINED
UC-UNCONFINED COMPRESSION (c=1/2 Qu)

U.S. Hwy 6 Eastbound
(Hickman Road)

FILE NO.	ENGLISH	DESIGN TEAM	Snyder & Associates, Inc.\ Terracon	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER Q.5

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THIS SHEET IS INCLUDED TO SHOW SOIL INFORMATION. DETAILS AND NOTES SHOWN ELSEWHERE IN THESE PLANS SHALL BE USED FOR STRUCTURE CONSTRUCTION.

NOTE: SOILS MAY VARY BETWEEN BORINGS. SEE STANDARD SPECIFICATION 1104.01

SEE NEXT SHEET FOR PROFILE VIEW.

FOR ADDITIONAL SOILS INFORMATION, REFER TO THE IM-080-3(264)124--13-77 PLAN SET Q-SHEETS.

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.\ Terracon	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER Q.6

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V2

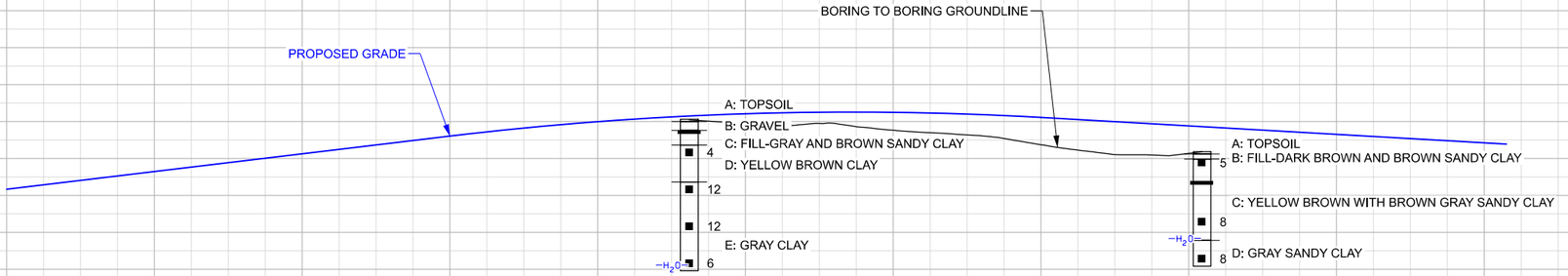
CUT MOISTURE
CUT DENSITY (PCF)
PLASTIC LIMIT

155 | 14 | 115 | ,

74 | 22.3 | 107 | ,

THIS SHEET IS INCLUDED TO SHOW SOIL INFORMATION. DETAILS AND NOTES SHOWN ELSEWHERE IN THESE PLANS SHALL BE USED FOR STRUCTURE CONSTRUCTION.

NOTE: SOILS MAY VARY BETWEEN BORINGS. SEE STANDARD SPECIFICATION 1104.01



U.S. Hwy 6 Westbound
(Hickman Road)

155
LT.110

74
LT.54

925 920 915 910 905 900 895 890 885 880 875 870 865 860 855 850 845 840 835

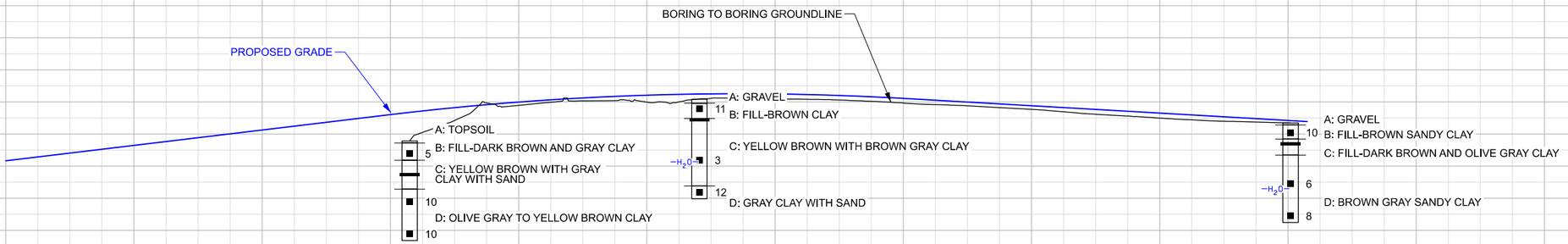
687+00 688+00 689+00 690+00 691+00 692+00 693+00 694+00 695+00 696+00 697+00 698+00 699+00 700+00 701+00

CUT MOISTURE
CUT DENSITY (PCF)
PLASTIC LIMIT

72 | 16.3 | 104 | ,

73 | 31.4 | 87 | ,

75 | 22.1 | 104 | ,



U.S. Hwy 6 Eastbound
(Hickman Road)

72
RT.72

73
RT.44

75
RT.55

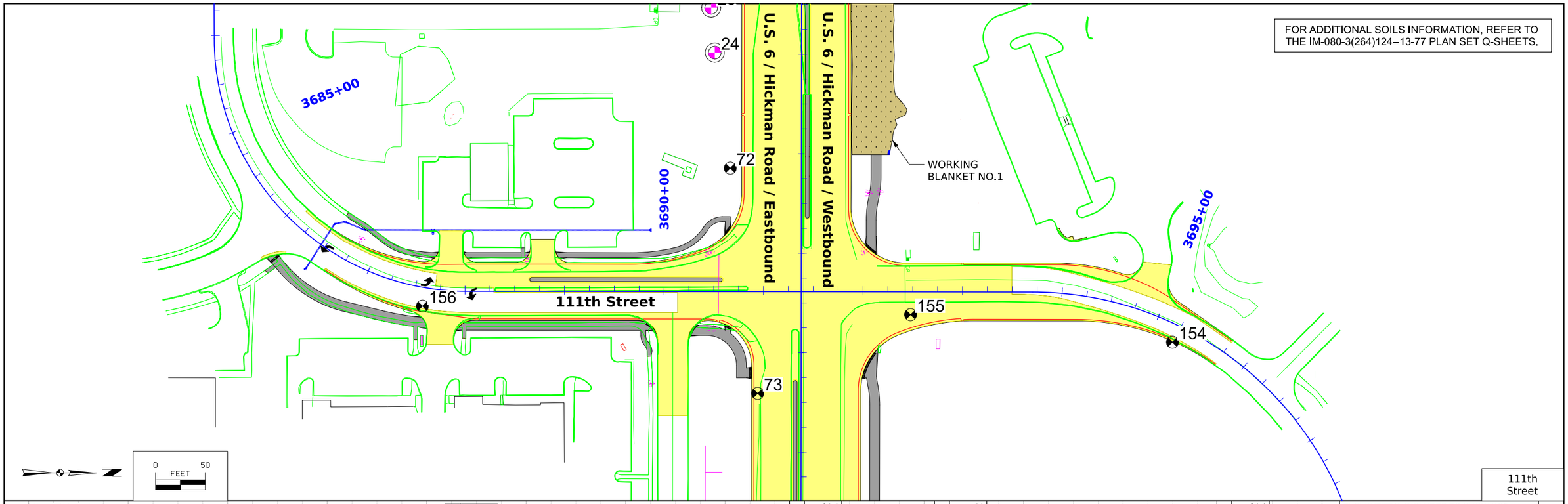
925 920 915 910 905 900 895 890 885 880 875 870 865 860 855 850 845 840 835

687+00 688+00 689+00 690+00 691+00 692+00 693+00 694+00 695+00 696+00 697+00 698+00 699+00 700+00 701+00

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.\ Terracon	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER Q.7

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FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.\ Terracon		Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER Q.8

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V2

ESTIMATED PROJECT QUANTITIES AND REFERENCE NOTES

Roadway Erosion Control Items : Erosion Control Items Associated With The Roadway Division

Project Enhancement Erosion Control Items : Erosion Control Items Associated with Project Enhancements

Item no.	Item Code	Item	Unit	Quantities			Estimate Reference Notes
				Estimated			
				Roadway Erosion Control Items	Project Enhancement Erosion Control Items	Total	
1	2507-3250005	ENGINEERING FABRIC	SY	144.3		144.3	Refer to Tab. 100-23 and RR-Sheets.
2	2507-6800061	REVETMENT, CLASS E	TON	92.4		92.4	Refer to Tabulation 100-23 and RR-Sheets. Estimated at 1.6 ton/cu. Yd. Broken concrete and granite is not allowed.
3	2601-2634105	MULCHING, BONDED FIBER MATRIX	ACRE	5.24	5.1	10.34	Refer to RR Sheets. Mulching is intended for use on all final restoration areas within the project limits and temporary seeding areas. Apply seed and fertilizer before applying mulch, apply at a rate of a minimum of 3,000 pounds per acre.
4	2601-2636015	NATIVE GRASS SEEDING	ACRE	1.68	3.78	5.46	Item for all areas designated for Native Grass Seeding and Native Grass Seeding With Plugs. Refer to RR-Sheets for locations. Plugs paid for separately. Seeding and seed bed preparation shall be as described in the Standard Specifications Section 2601.03,C,5. Supply all seed for "Native Grass Seeding". Only source identified seeds from Minnesota, Wisconsin, South Dakota, Nebraska, Missouri, Illinois or Iowa growers and previous year harvest shall be used on this project. Apply all forb seed through the native grass drill wildflower or small seed box. Do not mix and apply Forb seed with the native grass seed. Apply cover crop through the cool season or through cover crop seed box. Do not mix and apply cover crop seed with the native grass seed. Remove seed remaining in the drill at the end of each day. At the completion of all seeding, remove remaining seed from the drill by vacuum or other means. Hand broadcast remaining seed on the project. The Engineer will review the limits with the Contractor prior to seeding.
5	2601-2636043	SEEDING AND FERTILIZING (RURAL)	ACRE	0.34	1.15	1.49	Item for all areas designated for Seeding and Fertilizing (Modified Rural). Refer to RR-Sheets for locations. Provide rural seed mix consisting of three varieties of fescue from standard specification table 4169.02-1.

Item no.	Item Code	Item	Unit	Quantities			Estimate Reference Notes
				Estimated			
				Roadway Erosion Control Items	Project Enhancement Erosion Control Items	Total	
6	2601-2636044	SEEDING AND FERTILIZING (URBAN)	ACRE	3.22	0.17	3.39	Refer to RR-Sheets for seeding locations. Prepare seed bed, fertilize, and seed according to Article 2601.03, C, 4 of the Standard Specifications. Use ground driven equipment.
7	2601-2638352	SLOPE PROTECTION, WOOD EXCELSIOR MAT	SQ	1,335	1,675	3,010	Refer to Tabulation 100-22 and RR-Sheets. Refer to Standard Road Plan EC-103. Prepare seedbed according to Article 2601.03, B, 4, of the Standard Specifications prior to seeding and fertilizing under the slope protection.
8	2601-2642120	STABILIZING CROP - SEEDING AND FERTILIZING (URBAN)	ACRE	5.24	5.1	10.34	Item is included for all disturbed areas. Seed and fertilize all disturbed areas according to Article 2601.03, C, 1, of the Standard Specifications. If permanent seeding cannot be placed due to the restrictive planting dates, stabilizing crop will need to be placed on all disturbed areas as temporary erosion control. Preparation and seeding shall be performed in accordance with Section 2601. Stabilizing crop will not be used when the application dates in Section 2601 allows permanent seeding. If stabilizing crop must be used, place immediately following completions of finished grading. Reseeding of these areas will be required at contractors expense if damage occurs due to contractors negligence during the contract period. It is not necessary to place stabilizing crop in locations that have be covered by Slope Protection Mat.
9	2601-2643110	WATERING FOR SOD, SPECIAL DITCH CONTROL, OR SLOPE PROTECTION	MGAL	267	335	602	Refer to Tabulation 100-22 and RR-Sheets. Estimate based on four waterings of the Special Ditch Control and Slope Protection at a rate of 50 gallons per square. Perform all waterings unless notified by the Engineer in writing at least 1 calendar day prior to the day the watering is to occur. If the Contractor fails to complete the watering before the 8th calendar day has elapsed a price adjustment will be assessed at a rate of $200.00 per calendar day, beginning on the 9th day, until the watering is completed. Additional waterings will be required at intervals of 5 to 8 calendar days. The amount of water used should be sufficient to saturate the seedbed to a depth of approximately 2-inches.
10	2601-2643300	MOBILIZATION FOR WATERING	EACH	10	5	15	

Item no.	Item Code	Item	Unit	Quantities			Estimate Reference Notes
				Estimated			
				Roadway Erosion Control Items	Project Enhancement Erosion Control Items	Total	
11	2602-0000020	SILT FENCE	LF	6,680	250	6,930	Refer to Tabulation 100-17 and RR -Sheets for locations and details. The tabulation includes estimated locations for placement of "Silt Fence" to address possible erosion during construction. Verify the specific locations with the Engineer prior to beginning placement. Bid item includes 25% additional quantity for field adjustments and replacements.
12	2602-0000071	REMOVAL OF SILT FENCE OR SILT FENCE FOR DITCH CHECKS	LF	6,680	250	6,930	Refer to Tabulation 100-17. This item is included for silt fence and silt fence for ditch check removal required for staging reasons, removal to allow for replacement (replacement to be paid separately), or for areas that have achieved 70% permanent growth.
13	2602-0000101	MAINTENANCE OF SILT FENCE OR SILT FENCE FOR DITCH CHECK	LF	668	25	693	Refer to Tabulation 100-17. This item is included for clean-out and repair of the silt fence and silt fence for ditch checks during the project.
14	2602-0000150	STABILIZED CONSTRUCTION ENTRANCE, EC-303	LF	400	480	880	Refer to J-Sheets for anticipated locations.
15	2602-0000320	PERIMETER AND SLOPE SEDIMENT CONTROL DEVICE, 20 IN. DIA.	LF	13,980	7,650	21,630	Refer to Tabulation 100-19 and RR-Sheets for locations and details. Refer to Standard Road Plan EC-204. Item is included for temporary perimeter sediment control, inlet protection, and water velocity reduction on slopes or ditches at locations to be determined during construction. Verify specific locations with the Engineer prior to beginning placement. Bid item includes 25% additional quantity for field adjustments and replacements. Use Perimeter and Slope Sediment Control Devices fabricated using wood excelsior.
16	2602-0000351	REMOVAL OF PERIMETER AND SLOPE OR DITCH CHECK SEDIMENT CONTROL DEVICE	LF	13,980	7,650	21,630	Refer to Tabulation 100-19 and RR-Sheets for locations and details. Item included for removal of all devices. All materials shall become the property of the Contractor and removed from the project site within 24-hours.
17	2602-0000500	OPEN-THROAT CURB INTAKE SEDIMENT FILTER, EC-602	LF	290		290	Refer to Tabulation 100-36 and RR-Sheets.
18	2602-0000510	MAINTENANCE OF OPEN-THROAT CURB INTAKE SEDIMENT FILTER	EACH	47		47	
19	2602-0000520	REMOVAL OF OPEN-THROAT CURB INTAKE SEDIMENT FILTER	EACH	47		47	
20	2602-0000530	GRATE INTAKE SEDIMENT FILTER BAG, EC-604	EACH	5		5	Refer to Tabulation 100-37 and RR-Sheets.
21	2602-0000540	MAINTENANCE OF GRATE INTAKE SEDIMENT FILTER BAG	EACH	5		5	

Item no.	Item Code	Item	Unit	Quantities			Estimate Reference Notes
				Estimated			
				Roadway Erosion Control Items	Project Enhancement Erosion Control Items	Total	
22	2602-0000550	REMOVAL OF GRATE INTAKE SEDIMENT FILTER BAG	EACH	5		5	
23	2602-0010010	MOBILIZATIONS, EROSION CONTROL	EACH	10	5	15	
24	2602-0010020	MOBILIZATIONS, EMERGENCY EROSION CONTROL	EACH	10	5	15	

POLLUTION PREVENTION PLAN

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

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

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

I. ROLES AND RESPONSIBILITES

A. Designer:
1. Prepares Base PPP included in the project plan.
2. Prepares Notice of Intent (NOI) submitted to Iowa DNR.
3. Is signature authority on the Base PPP. If consultant designed, signature from Contracting Authority is also required.

B. Contractor:
1. Signs a co-permittee certification statement adhering to the requirements of the NPDES permit and this PPP. All co-permittees are legally required under the Clean Water Act and the Iowa Administrative Code to ensure compliance with the terms and conditions of this PPP.
2. Designates a Water Pollution Control Manager (WPCM), who has the duties and responsibilities as defined in Section 2602 of the Standard Specifications.
3. Submits an Erosion Control Implementation Plan (ECIP) and ECIP updates according to Section 2602 of the Standard Specifications.
4. Installs and maintains appropriate controls. This work may be subcontracted as documented through Subcontractor Request Forms (Form 830231).
5. Supervises and implements good housekeeping practices according to Paragraph III, C, 2.
6. Conducts joint required inspections of the site with inspection staff. When Contractor is not mobilized on site, Contractor may delegate this responsibility to a trained or certified subcontractor. Contracting Authority also may waive joint inspection requirement during winter shutdown. In both circumstances, WPCM (or trained or certified delegate from the Contractor) is still responsible to review and sign inspection reports.
7. Complies with training and certification requirements of Section 2602 of the Standard Specifications.
8. Submits amended PPP site map according to Section 2602 of the Standard Specifications.

C. Subcontractors:
1. Sign a co-permittee certification statement adhering to the requirements of the NPDES permit and this PPP if: responsible for sediment or erosion controls; involved in land disturbing activities; or perorming work that is a source of potential pollution as defined in this PPP. Subcontracted work items are identified in Subcontractor Request Forms (Form 830231). All co-permittees are legally required under the Clean Water Act and the Iowa Administrative Code to ensure compliance with the terms and conditions of this PPP.
2. Implement good housekeeping practices according to Paragraph III, C, 2.

D. RCE/Project Engineer:
1. Is Project Storm Water Manager.
2. On projects where DOT is the Contracting Authority, is current with erosion control training or certification.
3. Takes actions necessary to ensure compliance with storm water requirements including, where appropriate, issuing stop work orders, and directing additional inspections at construction project sites that are experiencing problems with achieving permit compliance.
4. Orders the taking of measures to cease, correct, prevent, or minimize the consequences of non-compliance with the storm water requirements of the Applicable Permit.
5. Supervises all work necessary to meet storm water requirements at the Project, including work performed by contractors and subcontractors.
6. Requires employees, contractors, and subcontractors to take appropriate responsive action to comply with storm water requirements, including requiring any such person to cease or correct a violation of storm water requirements, and to order or recommend such other actions as necessary to meet storm water requirements.
7. Is familiar with the Project PPP and storm water site map.
8. On projects where DOT is Contracting Authority, is responsible for periodically monitoring inspection reports to determine whether deficiencies identified in inspection reports were adequately and timely addressed, and if not, has the authority and responsibility to direct immediate actions to correct the deficiencies.
9. Is the point of contact for the Project for regulatory officials, Inspector, contractors, and subcontractors regarding storm water requirements.
10. Is signature authority on Notice of Discontinuation.
11. Maintains an up-to-date record of contractors, subcontractors, and subcontracted work items through Subcontractor Request Forms (Form 830231).
12. Makes information to determine permit compliance available to the DNR upon their request.

110_12
1/13/23

POLLUTION PREVENTION PLAN

E. Inspector:
1. Updates PPP through fieldbook entries and storm water site inspection reports if there is a change in design, construction, operation, or maintenance which has a significant effect on the discharge of pollutants from the project.
2. Makes information to determine permit compliance available to the DNR upon their request.
3. Conducts joint required inspections of the site with the contractor/subcontractor.
4. Completes an inspection report after each inspection.
5. Is signature authority on storm water inspection reports.

II. PROJECT SITE DESCRIPTION

A. This Pollution Prevention Plan (PPP) is for the construction of grading and paving of U.S. 6/Hickman Road.

B. This PPP covers approximately 17.5 acres with an estimated 17.5 acres being disturbed. The portion of the PPP covered by this contract has 17.5 acres disturbed.

C. The PPP is located in an area of one soil association (Clarion-Nicollet-Webster). The estimated weighted average runoff coefficient number for this PPP after completion will be 0.75.

D. Storm Water Site Map is located in the R sheets. Proposed slopes are shown in cross sections, details, or standard road plans. Supplemental information is located in the Tabulations in the C or CE sheets.

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

F. Runoff from this work will flow into Walnut Creek.

III. CONTROLS

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

B. Preserve vegetation in areas not needed for construction.

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

1. EROSION AND SEDIMENT CONTROLS

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

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

POLLUTION PREVENTION PLAN

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

2. OTHER CONTROLS
Contractor disposal of unused construction materials and construction material wastes shall comply with applicable state and local waste disposal, sanitary sewer, or septic system regulations. In the event of a conflict with other governmental laws, rules and regulations, the more restrictive laws, rules or regulations shall apply.

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

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

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

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

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

VI. NON-STORM WATER DISCHARGES

110_12
1/13/23

POLLUTION PREVENTION PLAN

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

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

VIII. DEFINITIONS
A. Base PPP - Initial Pollution Prevention Plan.
B. Amended PPP - Base PPP amended during construction. May include Plan Revisions or Contract Modifications for new items, storm water site inspection reports, fieldbook entries made by the inspector, amended PPP site map by the Contractor, ECIP, NOI, co-permittee certifications, and Subcontractor Request Forms. Items amending the PPP are stored electronically and are readily available upon request.
C. Fieldbook Entries – This contains the inspector’s daily diary and bid item postings.
D. Controls - Methods, practices, or measures to minimize or prevent erosion, control sedimentation, control storm water, or minimize contaminants from other types of waste or materials. Also called Best Management Practices (BMPs).
E. Signature Authority - Representative authorized to sign various storm water documents.

CERTIFICATION STATEMENT

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

Nathan Carhoff

Signature

Nathan Carhoff, PE

Printed or Typed Name

Signature

Printed or Typed Name

100_17
8/15/22

TABULATION OF SILT FENCES

Refer to EC-201

Line No.	Station From	Station To	Side	Length (FT)	Remarks
1.0	3690+30.08		Right	85.00	STG 1 - 111TH ST
2.0	24417+63.00	24418+68.00	Right	105.00	STG 2 - RAMP B_2
3.0	24418+64.00	24419+68.00	Right	65.00	STG 2 - RAMP B_2
4.0	681+00.00	690+84.00	Right	1085.00	STG 2 - U.S.6/HICKMAN
5.0	691+87.00	697+81.00	Right	650.00	STG 2 - U.S.6/HICKMAN
6.0	697+00.00	701+57.00	Left	505.00	STG 2 - U.S.6/HICKMAN
7.0	697+85.00	698+48.00	Right	70.00	STG 2 - U.S.6/HICKMAN
8.0	3688+91.00	3690+22.00	Left	140.00	STG 2 - 111TH ST
9.0	692+02.00	697+00.00	Left	545.00	STG 4 - U.S.6/HICKMAN
10.0	60013+80.00	60016+05.00	Left	255.00	STG 4 - TRAIL 080
11.0	60013+82.00	60016+05.00	Right	205.00	STG 4 - TRAIL 080
12.0	60018+00.00	60019+76.00	Right	150.00	STG 4 - TRAIL 080
13.0	50061+70.00	50063+92.00	Left	245.00	STG 4 - TRAIL 006
14.0	50061+83.00	50063+91.00	Right	200.00	STG 4 - TRAIL 006
15.0	50065+80.00	50067+75.00	Left	200.00	STG 4 - TRAIL 006
16.0	50065+82.00	50067+63.00	Right	185.00	STG 4 - TRAIL 006
17.0	50074+05.00	50075+46.00	Left	140.00	STG 4 - TRAIL 006
18.0	50075+27.00	50080+14.00	Left	515.00	STG 4 - TRAIL 006
19.0	381+74.82		Left	10.00	STG 5 - I-80/35
20.0	382+65.65		Right	10.00	STG 5 - I-80/35
21.0	389+52.82		Left	10.00	STG 5 - I-80/35
22.0	390+01.14		Left	10.00	STG 5 - I-80/35
23.0	390+21.90		Right	10.00	STG 5 - I-80/35
24.0	390+71.90		Right	10.00	STG 5 - I-80/35
25.0	390+99.12		Left	10.00	STG 5 - I-80/35
26.0	391+21.90		Right	10.00	STG 5 - I-80/35
27.0	391+49.12		Left	10.00	STG 5 - I-80/35
28.0	391+71.90		Right	10.00	STG 5 - I-80/35
29.0	390+99.11		Left	10.00	STG 5 - I-80/35
30.0	392+21.90		Right	10.00	STG 5 - I-80/35
31.0	392+71.90		Right	10.00	STG 5 - I-80/35
32.0	393+21.90		Right	10.00	STG 5 - I-80/35
33.0	393+49.11		Left	10.00	STG 5 - I-80/35
34.0	393+71.90		Right	10.00	STG 5 - I-80/35
35.0	394+21.90		Right	10.00	STG 5 - I-80/35
36.0	394+71.90		Right	10.00	STG 5 - I-80/35
37.0	395+21.90		Right	10.00	STG 5 - I-80/35
38.0	395+71.90		Right	10.00	STG 5 - I-80/35

Division 1
SILT FENCE (+25%) = 6,680 LF
MAINTENANCE OF SILT FENCE = 668 LF
REMOVAL OF SILT FENCE = 6,680 LF
Division 2
SILT FENCE (+25%) = 250 LF
MAINTENANCE OF SILT FENCE = 25 LF
REMOVAL OF SILT FENCE = 250 LF

PERIMETER AND SLOPE SEDIMENT CONTROL DEVICE

Possible Standards: EC-204

1.0	3686+23.23	3687+57.13	Right	Perimeter and Slope	20 inch	170.00	STG 1 - 111TH ST
2.0	3686+25.41	3687+54.96	Right	Perimeter and Slope	20 inch	160.00	STG 1 - 111TH ST
3.0	3687+91.46	3687+97.61	Right	Perimeter and Slope	20 inch	10.00	STG 1 - 111TH ST
4.0	3688+00.96	3689+83.27	Right	Perimeter and Slope	20 inch	190.00	STG 1 - 111TH ST
5.0	3689+87.23		Right	Perimeter and Slope	20 inch	80.00	STG 1 - 111TH ST
6.0	674+75.90	675+66.82	Right	Perimeter and Slope	20 inch	110.00	STG 2 - U.S.6/HICKMAN
7.0	677+53.74	678+16.39	Right	Perimeter and Slope	20 inch	80.00	STG 2 - U.S.6/HICKMAN
8.0	680+21.27	690+73.28	Right	Perimeter and Slope	20 inch	1060.00	STG 2 - U.S. 6/HICKMAN
9.0	681+36.18	690+91.10	Left	Perimeter and Slope	20 inch	970.00	STG 2 - U.S. 6/HICKMAN
10.0	3688+02.45	3688+61.04	Left	Perimeter and Slope	20 inch	60.00	STG 2 - 111TH ST
11.0	3688+65.04		Left	Perimeter and Slope	20 inch	20.00	STG 2 - 111TH ST
12.0	3688+91.92		Left	Perimeter and Slope	20 inch	20.00	STG 2 - 111TH ST
13.0	3688+95.04	3690+60.51	Left	Perimeter and Slope	20 inch	170.00	STG 2 - 111TH ST
14.0	3692+14.12	3694+68.19	Left	Perimeter and Slope	20 inch	275.00	STG 2 - 111TH ST
15.0	3692+15.13	3695+75.37	Right	Perimeter and Slope	20 inch	360.00	STG 2 - 111TH ST
16.0	663+84.35	673+31.37	Left	Perimeter and Slope	20 inch	1000.00	STG 3 - U.S.6/HICKMAN
17.0	667+80.44	669+37.44	Right	Perimeter and Slope	20 inch	160.00	STG 3 - U.S.6/HICKMAN
18.0	684+31.97	687+72.82	Median	Perimeter and Slope	20 inch	350.00	STG 3 - U.S.6/HICKMAN
19.0	684+35.45	687+72.82	Median	Perimeter and Slope	20 inch	340.00	STG 3 - U.S.6/HICKMAN
20.0	695+20.00	697+00.00	Median	Perimeter and Slope	20 inch	180.00	STG 3 - U.S.6/HICKMAN
21.0	695+20.00	697+00.00	Median	Perimeter and Slope	20 inch	180.00	STG 3 - U.S.6/HICKMAN
22.0	3686+11.39	3687+63.77	Left	Perimeter and Slope	20 inch	150.00	STG 3 - 111TH ST
23.0	3686+50.18	3687+60.50	Left	Perimeter and Slope	20 inch	100.00	STG 3 - 111TH ST
24.0	3687+98.78		Left	Perimeter and Slope	20 inch	20.00	STG 3 - 111TH ST
25.0	666+63.61	672+30.88	Median	Perimeter and Slope	20 inch	1160.00	STG 4 - U.S.6/HICKMAN
26.0	681+36.76	684+23.12	Median	Perimeter and Slope	20 inch	620.00	STG 4 - U.S.6/HICKMAN
27.0	674+88.37	675+74.89	Left	Perimeter and Slope	20 inch	110.00	STG 4 - U.S.6/HICKMAN
28.0	677+62.42	678+79.43	Left	Perimeter and Slope	20 inch	150.00	STG 4 - U.S.6/HICKMAN
29.0	674+50.72	675+64.29	Median	Perimeter and Slope	20 inch	190.00	STG 4 - U.S.6/HICKMAN
30.0	677+64.06	678+67.97	Median	Perimeter and Slope	20 inch	230.00	STG 4 - U.S.6/HICKMAN
31.0	60015+81.05		Right	Perimeter and Slope	20 inch	10.00	STG 4 - TRAIL 080
32.0	60017+85.00		Left	Perimeter and Slope	20 inch	10.00	STG 4 - TRAIL 080
33.0	60014+30.00		Left	Perimeter and Slope	20 inch	10.00	STG 4 - TRAIL 080
34.0	60015+78.62		Left	Perimeter and Slope	20 inch	10.00	STG 4 - TRAIL 080
35.0	+.00			Perimeter and Slope	20 inch	750.00	STG 4 - NE BIOCELL
36.0	+.00			Perimeter and Slope	20 inch	570.00	STG 4 - NW BIOCELL
37.0	+.00			Perimeter and Slope	20 inch	340.00	STG 4 - SE BIOCELL
38.0	+.00			Perimeter and Slope	20 inch	770.00	STG 4 - SW BIOCELL
39.0	+.00			Perimeter and Slope	20 inch	10.00	STG 4 - BIORETENTION A
40.0	+.00			Perimeter and Slope	20 inch	10.00	STG 4 - BIORETENTION B
41.0	+.00			Perimeter and Slope	20 inch	10.00	STG 4 - BIORETENTION C
42.0	+.00			Perimeter and Slope	20 inch	10.00	STG 4 - BIORETENTION D
43.0	371+80.47	372+84.50	Right	Perimeter and Slope	20 inch	107.00	STG 5 - I-80/35
44.0	372+27.19	372+79.82	Right	Perimeter and Slope	20 inch	59.00	STG 5 - I-80/35
45.0	375+42.69	375+48.60	Left	Perimeter and Slope	20 inch	10.00	STG 5 - I-80/35
46.0	375+50.35	378+68.78	Left	Perimeter and Slope	20 inch	371.00	STG 5 - I-80/35
47.0	375+61.70	380+47.79	Left	Perimeter and Slope	20 inch	597.00	STG 5 - I-80/35
48.0	375+80.11	377+25.00	Left	Perimeter and Slope	20 inch	154.00	STG 5 - I-80/35
49.0	375+81.55	378+82.34	Left	Perimeter and Slope	20 inch	321.00	STG 5 - I-80/35
50.0	377+02.24	378+82.29	Left	Perimeter and Slope	20 inch	196.00	STG 5 - I-80/35
51.0	378+24.86	378+96.44	Left	Perimeter and Slope	20 inch	79.00	STG 5 - I-80/35
52.0	378+90.63	380+39.69	Left	Perimeter and Slope	20 inch	197.00	STG 5 - I-80/35
53.0	380+43.22		Left	Perimeter and Slope	20 inch	10.00	STG 5 - I-80/35
54.0	380+53.95		Left	Perimeter and Slope	20 inch	10.00	STG 5 - I-80/35
55.0	380+64.68		Left	Perimeter and Slope	20 inch	10.00	STG 5 - I-80/35

100_19
10/15/24

PERIMETER AND SLOPE SEDIMENT CONTROL DEVICE

Possible Standards: EC-204

Line No.	Station From	Station To	Side	Sediment Control Device Type	Diameter Size	Length (LF)	Remarks
56.0	380+75.42		Left	Perimeter and Slope	20 inch	10.00	STG 5 - I-80/35
57.0	380+86.32		Left	Perimeter and Slope	20 inch	10.00	STG 5 - I-80/35
58.0	380+97.21		Left	Perimeter and Slope	20 inch	10.00	STG 5 - I-80/35
59.0	381+08.28		Left	Perimeter and Slope	20 inch	10.00	STG 5 - I-80/35
60.0	381+19.30		Left	Perimeter and Slope	20 inch	10.00	STG 5 - I-80/35
61.0	381+30.55		Left	Perimeter and Slope	20 inch	10.00	STG 5 - I-80/35
62.0	381+41.95		Left	Perimeter and Slope	20 inch	10.00	STG 5 - I-80/35
63.0	381+53.22		Left	Perimeter and Slope	20 inch	10.00	STG 5 - I-80/35
64.0	381+63.81		Left	Perimeter and Slope	20 inch	10.00	STG 5 - I-80/35
65.0	381+86.93	397+99.44	Right	Perimeter and Slope	20 inch	1659.00	STG 5 - I-80/35
66.0	381+87.53	390+35.35	Right	Perimeter and Slope	20 inch	877.00	STG 5 - I-80/35
67.0	393+86.03	399+09.72	Left	Perimeter and Slope	20 inch	545.00	STG 5 - I-80/35
68.0	393+86.15	399+09.50	Left	Perimeter and Slope	20 inch	550.00	STG 5 - I-80/35
69.0	395+89.74	398+00.16	Right	Perimeter and Slope	20 inch	217.00	STG 5 - I-80/35
70.0	398+01.03		Right	Perimeter and Slope	20 inch	10.00	STG 5 - I-80/35
71.0	398+18.02		Right	Perimeter and Slope	20 inch	10.00	STG 5 - I-80/35
72.0	398+35.01		Right	Perimeter and Slope	20 inch	10.00	STG 5 - I-80/35
73.0	399+10.19		Left	Perimeter and Slope	20 inch	10.00	STG 5 - I-80/35
74.0	399+28.96		Left	Perimeter and Slope	20 inch	10.00	STG 5 - I-80/35
75.0	399+47.81		Left	Perimeter and Slope	20 inch	10.00	STG 5 - I-80/35

Division 1:
PERIMETER SLOPE SEDIMENT CONTROL DEVICES (+25%) = 13,980 LF

Division 2:
PERIMETER SLOPE SEDIMENT CONTROL DEVICES (+25%) = 7,650 LF

ROLLED EROSION CONTROL

Refer to EC-101, EC-103 and EC-104.

Line No.	Road Identification	Station From	Station To	Side	Length (FT)	Width (FT)	TRM Type (EC-104)	TRM Quantity (Squares)	Slope Protection (EC-103) (Squares)	Special Ditch Control (EC-101) (Squares)	Remarks
1.0	111TH ST	3686+12.62	3686+21.97	Right					1.0		STG 1
2.0	111TH ST	3686+20.38	3687+59.90	Right					20.0		STG 1
3.0	111TH ST	3686+23.23	3687+57.54	Right					13.0		STG 1
4.0	111TH ST	3687+58.87	3687+68.15	Right					1.0		STG 1
5.0	111TH ST	3687+91.05	3687+97.92	Right					1.0		STG 1
6.0	111TH ST	3688+01.03	3689+82.92	Right					13.0		STG 1
7.0	111TH ST	3689+81.79	3689+93.53	Right					5.0		STG 1
8.0	111TH ST	3690+24.53	3690+72.90	Right					10.0		STG 1
9.0	U.S. 6/HICKMAN	674+86.51	675+64.04	Right					13.0		STG 2
10.0	U.S. 6/HICKMAN	674+96.25	675+74.69	Left					16.0		STG 2
11.0	U.S. 6/HICKMAN	677+53.77	678+07.25	Right					11.0		STG 2
12.0	U.S. 6/HICKMAN	677+61.39	678+70.33	Left					27.0		STG 2
13.0	U.S. 6/HICKMAN	679+50.43	690+73.98	Right					466.0		STG 2
14.0	U.S. 6/HICKMAN	681+36.23	690+91.76	Left					154.0		STG 2
15.0	U.S. 6/HICKMAN	691+75.14	692+15.43	Right					2.0		STG 2
16.0	U.S. 6/HICKMAN	691+82.83	698+20.02	Right					142.0		STG 2
17.0	U.S. 6/HICKMAN	692+25.43	701+38.80	Left					107.0		STG 2
18.0	111TH ST	3688+15.11	3688+61.42	Left					2.0		STG 2
19.0	111TH ST	3688+60.02	3688+65.54	Left					1.0		STG 2
20.0	111TH ST	3688+90.48	3690+50.17	Left					6.0		STG 2
21.0	111TH ST	3688+95.34	3690+61.45	Left					12.0		STG 2
22.0	111TH ST	3690+32.65	3690+61.59	Right					1.0		STG 2
23.0	111TH ST	3692+15.17	3695+75.45	Right					22.0		STG 2
24.0	111TH ST	3692+13.41	3694+68.63	Left					33.0		STG 2
25.0	111TH ST	3694+93.79	3695+75.91	Left					6.0		STG 2
26.0	U.S. 6/HICKMAN	667+98.99	669+20.31	Right					12.0		STG 3
27.0	111TH ST	3686+12.12	3687+63.50	Left					14.0		STG 3
28.0	111TH ST	3686+68.72	3687+68.11	Left					16.0		STG 3
29.0	111TH ST	3687+97.39	3688+56.02	Left					2.0		STG 3
30.0	111TH ST	3688+03.36	3688+15.11	Left					1.0		STG 3
31.0	TRAIL 006	50050+99.91	50058+75.87	Right					33.0		STG 3
32.0	TRAIL 006	50050+99.91	50054+96.26	Left					9.0		STG 3
33.0	U.S. 6/HICKMAN	684+92.78	690+91.76	Left					54.0		STG 4
34.0	U.S. 6/HICKMAN	691+95.77	696+99.96	Left					38.0		STG 4
35.0	TRAIL 080	60013+82.19	60016+04.82	Left					8.0		STG 4
36.0	TRAIL 080	60013+82.19	60016+04.82	Right					5.0		STG 4
37.0	TRAIL 080	60017+82.71	60018+07.66	Left					1.0		STG 4
38.0	TRAIL 080	60017+83.11	60019+88.03	Right					4.0		STG 4
39.0	TRAIL 006	50056+01.22	50056+92.24	Left					2.0		STG 4
40.0	TRAIL 006	50057+12.18	50058+75.87	Left					4.0		STG 4
41.0	TRAIL 006	50061+69.69	50063+95.51	Left					23.0		STG 4
42.0	TRAIL 006	50061+78.31	50063+95.51	Right					7.0		STG 4
43.0	TRAIL 006	50065+80.52	50067+67.76	Right					4.0		STG 4
44.0	TRAIL 006	50065+80.52	50067+77.42	Left					13.0		STG 4
45.0	I-80/35	371+84.01	372+79.99	Right					84.0		STG 5
46.0	I-80/35	375+71.54	378+82.39	Left					156.0		STG 5
47.0	I-80/35	381+90.55	398+35.57	Right					705.0		STG 5
48.0	I-80/35	389+35.00	391+00.00	Left					88.0		STG 5
49.0	I-80/35	393+52.80	399+10.30	Left					275.0		STG 5
50.0	University Ramp A	1375+10.00	1382+50.00	Left					367.0		STG 5

Division 1: SLOPE PROTECTION (EC-103) = 1,335 SQ

Division 2: SLOPE PROTECTION (EC-103) = 1,675 SQ

ROCK EROSION CONTROL

Refer to EC-301 and Detail 570-8

Line No.	Road Identification	Station From	Station To	Side	Length (FT)	Width (FT)	Rock Erosion Control Type	Engineering Fabric (SY)	Class E Revetment (TON)	Erosion Stone (TON)	Remarks
1.0	U.S. 6/HICKMAN	680+46.54		Right	12.00	22.0	Type 4 - Rock Splash Basin	44.4	29.000		STG 2
2.0	U.S. 6/HICKMAN	680+94.43		Right	12.00	24.0	Type 4 - Rock Splash Basin	51.1	34.300		STG 2
3.0	U.S. 6/HICKMAN	697+83.52		Right	11.00	22.0	Type 4 - Rock Splash Basin	39.9	25.600		STG 2
4.0	111TH ST	3693+00.00		Left	8.00	4.0	Type 4 - Rock Splash Basin	8.9	3.500		STG 2

Division 1
ENGINEERING FABRIC = 144.3 SY
CLASS E REVETMENT = 92.4 TONS

STORMWATER DRAINAGE BASIN

Refer to EC Standards and 570s Details.

Line No.	Basin No.	Station From	Station To	Direction of Traffic	Side	Discharge Station	Discharge Direction	Total Disturbed Area (ACRES)	Disturbed Area with Storage Provided (ACRES)	Disturbed Area without Storage Provided (ACRES)	Best Management Practice	Total Storage Volume Provided (CF)	Total Storage Volume Required (CF)	Storage Volume Met	Remarks
1.0	1	651+39.20	661+95.07	WB	Left	661+90.00	E	1.7	1.7		Open-Throat Curb Intake Sediment Filter (EC-602)		6120.0		
2.0	2	651+42.14	661+97.67	EB	Right	661+91.00	E	1.6	1.6		Open-Throat Curb Intake Sediment Filter (EC-602)		5760.0		
3.0	3	662+34.12	667+61.66	WB	Left	667+54.00	NE	0.9	0.9		Open-Throat Curb Intake Sediment Filter (EC-602)		3240.0		
4.0	4	662+33.88	667+79.48	EB	Right	667+75.00	SE	0.9	0.9		Open-Throat Curb Intake Sediment Filter (EC-602)		3240.0		
5.0	5	668+40.50	670+08.74		Left	668+40.50	SW	0.2	0.2		Erosion Control for Intake or Manhole Well (570-5)		720.0		
6.0	6	667+29.16	670+68.23	WB	Left	670+60.00	NE	0.6	0.6		Open-Throat Curb Intake Sediment Filter (EC-602)		2160.0		
7.0	7	667+29.16	670+46.47	EB	Right	670+40.00	SE	0.6	0.6		Open-Throat Curb Intake Sediment Filter (EC-602)		2160.0		
8.0	8	668+40.83	671+15.39	EB	Right	668+61.00	W	0.2	0.2		Erosion Control for Intake or Manhole Well (570-5)		720.0		
9.0	9	669+82.59	673+83.24	WB	Left	672+88.00	N	0.5	0.5		Open-Throat Curb Intake Sediment Filter (EC-602)		1800.0		
10.0	10	669+41.29	671+76.19	EB	Right	671+70.00	SE	0.4	0.4		Open-Throat Curb Intake Sediment Filter (EC-602)		1440.0		
11.0	11	670+82.99	673+19.76	EB	Right	673+18.00	S	0.3	0.3		Open-Throat Curb Intake Sediment Filter (EC-602)		1080.0		
12.0	12	671+32.49	673+22.87	WB	Left	673+22.00	NE	0.1	0.1		Open-Throat Curb Intake Sediment Filter (EC-602)		360.0		
13.0	13	672+10.57	674+10.71	EB	Right	673+54.00	S	0.3	0.3		Erosion Control for Intake or Manhole Well (570-5)		1080.0		
14.0	14	673+00.95	674+82.80	WB	Right	674+78.00	SE	0.2	0.2		Open-Throat Curb Intake Sediment Filter (EC-602)		720.0		
15.0	15	6730+03.95	674+62.88	EB	Left	674+60.00	NE	0.2	0.2		Open-Throat Curb Intake Sediment Filter (EC-602)		720.0		
16.0	16	672+53.94	674+31.63		Left	673+88.00	S	0.3	0.3		Erosion Control for Intake or Manhole Well (570-5)		1080.0		
17.0	17	674+18.16	675+45.00	EB	Left	675+45.00	E	0.4	0.4		Open-Throat Curb Intake Sediment Filter (EC-602)		1440.0		
18.0	18	50061+51.99	50063+95.44		Right	50061+94.00	S	0.5	0.5		Open-Throat Curb Intake Sediment Filter (EC-602)		1800.0		
19.0	19	675+20.19	679+75.40	EB	Left	678+50.00	N	1.0	1.0		Open-Throat Curb Intake Sediment Filter (EC-602)		3600.0		
20.0	20	674+10.71	677+89.42	WB	Right	677+85.00	SE	0.9	0.9		Open-Throat Curb Intake Sediment Filter (EC-602)		3240.0		
21.0	21	50065+78.54	50067+97.82		Right	50067+52.00	S	0.5	0.5		Open-Throat Curb Intake Sediment Filter (EC-602)		1800.0		
22.0	22	677+18.03	679+85.10	EB	Left	679+50.00	NE	0.3	0.3		Open-Throat Curb Intake Sediment Filter (EC-602)		1080.0		
23.0	23	677+18.03	679+64.69	WB	Right	679+62.00	SE	0.3	0.3		Open-Throat Curb Intake Sediment Filter (EC-602)		1080.0		
24.0	24	678+26.52	680+45.99		Right	679+49.00	N	0.3	0.3		Erosion Control for Intake or Manhole Well (570-5)		1080.0		
25.0	25	678+56.15	680+43.36	WB	Right	681+22.00	SE	0.1	0.1		Open-Throat Curb Intake Sediment Filter (EC-602)		360.0		
26.0	26	678+56.26	681+34.53		Left	679+69.00	N	0.4	0.4		Erosion Control for Intake or Manhole Well (570-5)		1440.0		
27.0	27	679+54.40	681+93.76	WB	Left	681+22.00	NE	0.3	0.3		Open-Throat Curb Intake Sediment Filter (EC-602)		1080.0		
28.0	28	679+54.40	687+97.77	EB	Right	683+72.00	S	1.3	1.3		Open-Throat Curb Intake Sediment Filter (EC-602)		4680.0		
29.0	29	680+41.66	687+96.77	WB	Left	683+72.00	N	1.5	1.5		Open-Throat Curb Intake Sediment Filter (EC-602)		5400.0		
30.0	30	687+40.50	689+94.54	WB	Left	687+68.00	NW	0.4	0.4		Open-Throat Curb Intake Sediment Filter (EC-602)		1440.0		
31.0	31	687+64.17	689+95.00	EB	Right	687+68.00	SW	0.3	0.3		Open-Throat Curb Intake Sediment Filter (EC-602)		1080.0		
32.0	32	689+41.64	692+77.14	WB	Left	689+60.00	W	0.7	0.7		Open-Throat Curb Intake Sediment Filter (EC-602)		2520.0		
33.0	33	689+56.74	692+73.98	EB	Right	689+60.00	SW	0.5	0.5		Open-Throat Curb Intake Sediment Filter (EC-602)		1800.0		
34.0	34	692+67.06	693+82.59	WB	Left	693+80.00	NE	0.2	0.2		Open-Throat Curb Intake Sediment Filter (EC-602)		720.0		
35.0	35	692+73.96	693+82.55	EB	Right	693+80.00	SE	0.1	0.1		Open-Throat Curb Intake Sediment Filter (EC-602)		360.0		
36.0	36	693+62.05	696+90.72	WB	Left	696+90.00	E	0.6	0.6		Open-Throat Curb Intake Sediment Filter (EC-602)		2160.0		
37.0	37	693+62.05	696+90.00	EB	Right	696+90.00	SE	0.4	0.4		Open-Throat Curb Intake Sediment Filter (EC-602)		1440.0		
38.0	38	691+69.48	701+06.30	EB	Right	701+06.00	E	2.0	2.0				7200.0		
39.0	39	673+97.67	676+35.87	SB	Left	674+41.00	S	3.0	3.0				10800.0		
40.0	40	677+20.40	679+51.39	NB	Left	679+21.00	S	4.1	4.1				14760.0		
41.0	41	6420+69.67	6424+75.85	NB	Median	6420+75.00	S	0.3	0.3		Open-Throat Curb Intake Sediment Filter (EC-602)		1080.0		
42.0	42	6424+17.65	6426+76.00	NB	Median	6424+21.00	S	0.2	0.2		Open-Throat Curb Intake Sediment Filter (EC-602)		720.0		
43.0	43	6426+17.50	6429+18.44	NB	Median	6426+20.00	S	0.2	0.2		Open-Throat Curb Intake Sediment Filter (EC-602)		720.0		
44.0	44	3693+00.00	3696+73.12	NB	Right	3693+00.00	S	0.2	0.2		Grate Intake Sediment Filter Bag (570-7)		720.0		
45.0	45	3693+00.00	3696+73.12	SB	Left	3693+00.00	S	0.4	0.4		Grate Intake Sediment Filter Bag (570-7)		1440.0		
46.0	46	3686+51.69	3690+55.00	NB	Right	3686+52.00	S	0.4	0.4		Grate Intake Sediment Filter Bag (570-7)		1440.0		
47.0	47	3686+57.00	3690+55.00	SB	Left	3686+57.00	S	0.2	0.2		Grate Intake Sediment Filter Bag (570-7)		720.0		

OPEN-THROAT CURB INTAKE SEDIMENT FILTER

Possible Standard: EC-602

Line No.	Station	Side	Installation (LF)	Maintenance (Each)	Removal (Each)	Remarks
1.0	657+48.00	Left	8.0	1	1.0	STG 2 - U.S.6/HICKMAN
2.0	658+63.25	Right	4.0	1	1.0	STG 2 - U.S.6/HICKMAN
3.0	658+85.37	Left	4.0	1	1.0	STG 2 - U.S.6/HICKMAN
4.0	661+90.00	Left	4.0	1	1.0	STG 2 - U.S.6/HICKMAN
5.0	661+91.00	Right	8.0	1	1.0	STG 2 - U.S.6/HICKMAN
6.0	667+54.81	Left	4.0	1	1.0	STG 2 - U.S.6/HICKMAN
7.0	667+75.00	Right	8.0	1	1.0	STG 2 - U.S.6/HICKMAN
8.0	670+40.12	Right	4.0	1	1.0	STG 2 - U.S.6/HICKMAN
9.0	670+60.01	Left	4.0	1	1.0	STG 2 - U.S.6/HICKMAN
10.0	671+71.07	Right	8.0	1	1.0	STG 2 - U.S.6/HICKMAN
11.0	672+69.71	Right	4.0	1	1.0	STG 2 - U.S.6/HICKMAN
12.0	673+00.60	Left	4.0	1	1.0	STG 2 - U.S.6/HICKMAN
13.0	673+17.92	Right	4.0	1	1.0	STG 2 - U.S.6/HICKMAN
14.0	673+22.87	Left	4.0	1	1.0	STG 2 - U.S.6/HICKMAN
15.0	674+60.00	Left	4.0	1	1.0	STG 2 - U.S.6/HICKMAN
16.0	674+77.61	Right	4.0	1	1.0	STG 2 - U.S.6/HICKMAN
17.0	675+45.00	Left	4.0	1	1.0	STG 2 - U.S.6/HICKMAN
18.0	678+59.29	Right	4.0	1	1.0	STG 2 - U.S.6/HICKMAN
19.0	678+83.86	Left	4.0	1	1.0	STG 2 - U.S.6/HICKMAN
20.0	681+22.07	Left	8.0	1	1.0	STG 2 - U.S.6/HICKMAN
21.0	683+32.79	Left	12.0	1	1.0	STG 2 - U.S.6/HICKMAN
22.0	683+67.43	Left	12.0	1	1.0	STG 2 - U.S.6/HICKMAN
23.0	684+07.26	Left	12.0	1	1.0	STG 2 - U.S.6/HICKMAN
24.0	683+36.43	Right	12.0	1	1.0	STG 2 - U.S.6/HICKMAN
25.0	683+75.81	Right	12.0	1	1.0	STG 2 - U.S.6/HICKMAN
26.0	684+06.22	Right	12.0	1	1.0	STG 2 - U.S.6/HICKMAN
27.0	687+67.49	Right	4.0	1	1.0	STG 2 - U.S.6/HICKMAN
28.0	687+67.50	Left	4.0	1	1.0	STG 2 - U.S.6/HICKMAN
29.0	689+60.00	Right	4.0	1	1.0	STG 2 - U.S.6/HICKMAN
30.0	689+60.00	Left	4.0	1	1.0	STG 2 - U.S.6/HICKMAN
31.0	693+80.00	Right	4.0	1	1.0	STG 2 - U.S.6/HICKMAN
32.0	693+80.00	Left	4.0	1	1.0	STG 2 - U.S.6/HICKMAN
33.0	696+90.00	Right	4.0	1	1.0	STG 2 - U.S.6/HICKMAN
34.0	696+90.00	Left	4.0	1	1.0	STG 2 - U.S.6/HICKMAN
35.0	23420+28.00	Left	4.0	1	1.0	STG 2 - RMP A_2
36.0	23420+40.90	Left	18.0	1	1.0	STG 2 - RMP A_2
37.0	23420+66.00	Left	4.0	1	1.0	STG 2 - RMP A_2
38.0	14418+81.04	Left	8.0	1	1.0	STG 2 - RMP B_1
39.0	16420+28.00	Left	8.0	1	1.0	STG 2 - RMP D_1
40.0	16420+39.00	Left	4.0	1	1.0	STG 2 - RMP D_1
41.0	16420+59.00	Left	8.0	1	1.0	STG 2 - RMP D_1
42.0	3690+55.38	Right	4.0	1	1.0	STG 2 - 111TH ST
43.0	3690+55.94	Left	4.0	1	1.0	STG 2 - 111TH ST
46.0	679+49.89	Left	8.0	1	1.0	STG 3 - U.S.6/HICKMAN
47.0	679+62.34	Right	4.0	1	1.0	STG 3 - U.S.6/HICKMAN
48.0	680+34.14	Right	8.0	1	1.0	STG 3 - U.S.6/HICKMAN
49.0	26420+55.05	Right	4.0	1	1.0	STG 3 - RMP D_2

Division 1
INSTALLATION = 290 LF
MAINTENANCE = 47 EA
REMOVAL = 47 EA

GRATE INTAKE SEDIMENT FILTER BAG

Possible Standard Road Plan : EC-604

Line No.	Location Station	Side	Installation (Each)	Maintenance (Each)	Removal (Each)	Remarks
1.0	3686+51.79	Right	1.0	1	1.0	STG 1 - 111TH ST
2.0	3693+00.00	Right	1.0	1	1.0	STG 2 - 111TH ST
3.0	3693+00.00	Left	1.0	1	1.0	STG 2 - 111TH ST
4.0	24417+53.22	Right	1.0	1	1.0	STG 2 - RMP B_2
5.0	3686+57.21	Left	1.0	1	1.0	STG 3 - 111TH ST

Division 1
INSTALLATION = 5 EA
MAINTENANCE = 5 EA
REMOVAL = 5 EA

LINE STYLE LEGEND OF EROSION CONTROL SHEETS

LINESTYLE	Design Element
	Silt Fence
9	Perimeter and Slope Sediment Control Device (9")
12	Perimeter and Slope Sediment Control Device (12")
20	Perimeter and Slope Sediment Control Device (20")
	Open-Throat Curb Intake Sediment Filter
	Concentrated Flow
	Rock Check and Rock Check Dam
	Sheet Flow

CELL LEGEND OF EROSION CONTROL SHEETS

CELL	Design Element
	Temporary Sediment Control basin
	Erosion Control for Circular Intake or Manhole Well
	Erosion Control for Rectangular Intake or Manhole Well
	Grate Intake Sediment Filter Bag
	Silt Basin
	Silt Fence Tail
	Stormwater Drainage Basin Discharge Point

* Perform native seeding followed by planting plugs from 50-cell trays at 24" O.C. in a triangular pattern. Group individual species in naturalized clusters consisting of a minimum of six (6) and a maximum of twelve (12) plugs per species grouping.

** Provide rural seed mix consisting of three varities of fescue from standard specification table 4169.02-1

PLAN VIEW COLOR LEGEND OF EROSION CONTROL SHEETS

LINEWORK	Design Color No.	
Green	(2)	Existing Topographic Features and Labels
Blue	(1)	Proposed Alignment, Stationing, Tic Marks, and Alignment Annotation
Magenta	(5)	Existing Utilities
Black	(0)	Permanent Erosion Control Features
Blaze Orange	(222)	Temporary Erosion Control Features

SHADING	Design Color No.		Transparency
Citron	(234)	Mulching, All Types	50%
Light Brown	(238)	Special Ditch Control, Wood Excelsior Mat	0%
Grass Green	(233)	8FT Mow Strip	50%
Red	(3)	Delineates Restricted Areas	0%
Red	(3)	Basin_100YR_Ponding	
Magenta	(5)	Soil Quality Restoration	
Gray	(48)	Regenerative Conveyance	
Green	(2)	Grass Swale_Rock Infiltration	
Yellow	(4)	Bioretention Cell	

PROFILE VIEW COLOR LEGEND OF PLAN AND PROFILE SHEETS

LINEWORK	Design Color No.	
Green	(10)	Existing Ground Line Profile
Blue	(1)	Proposed Profile and Annotation
Magenta	(5)	Existing Utilities
Blue, Light	(230)	Proposed Ditch Grades, Left
Rust	(14)	Proposed Ditch Grades, Right
Black	(0)	Infiltration Trench
Teal	(7)	Regenerative Conveyance, Left
Orange	(6)	Regenerative Conveyance, Right

PATTERN LEGEND OF EROSION CONTROL SHEETS

Native Grass Seeding With Plugs*	Turf Reinforcement Mat Type 1
Seeding and Fertilizing (Modified Rural**)	Turf Reinforcement Mat Type 2
Seeding and Fertilizing (Urban)	Turf Reinforcement Mat Type 3
Native Grass Seeding	Turf Reinforcement Mat Type 4
Salt Tolerant Seeding	Slope Protection, Wood Excelsior Mat
Wetland Grass Seeding	Transition Mat
Wildflower Seeding	Rock Features, Permanent
Sodding	Rock Features, Temporary

EROSION CONTROL LEGEND AND SYMBOL INFORMATION SHEET

(COVERS SHEET SERIES R)

649+00
650+00
651+00
652+00
653+00
654+00
655+00
656+00
657+00
658+00
659+00
660+00
661+00
662+00
663+00
664+00

D.A. 1 = 1.7 AC

U.S. 6 / Hickman Road

D.A. 2 = 1.6 AC

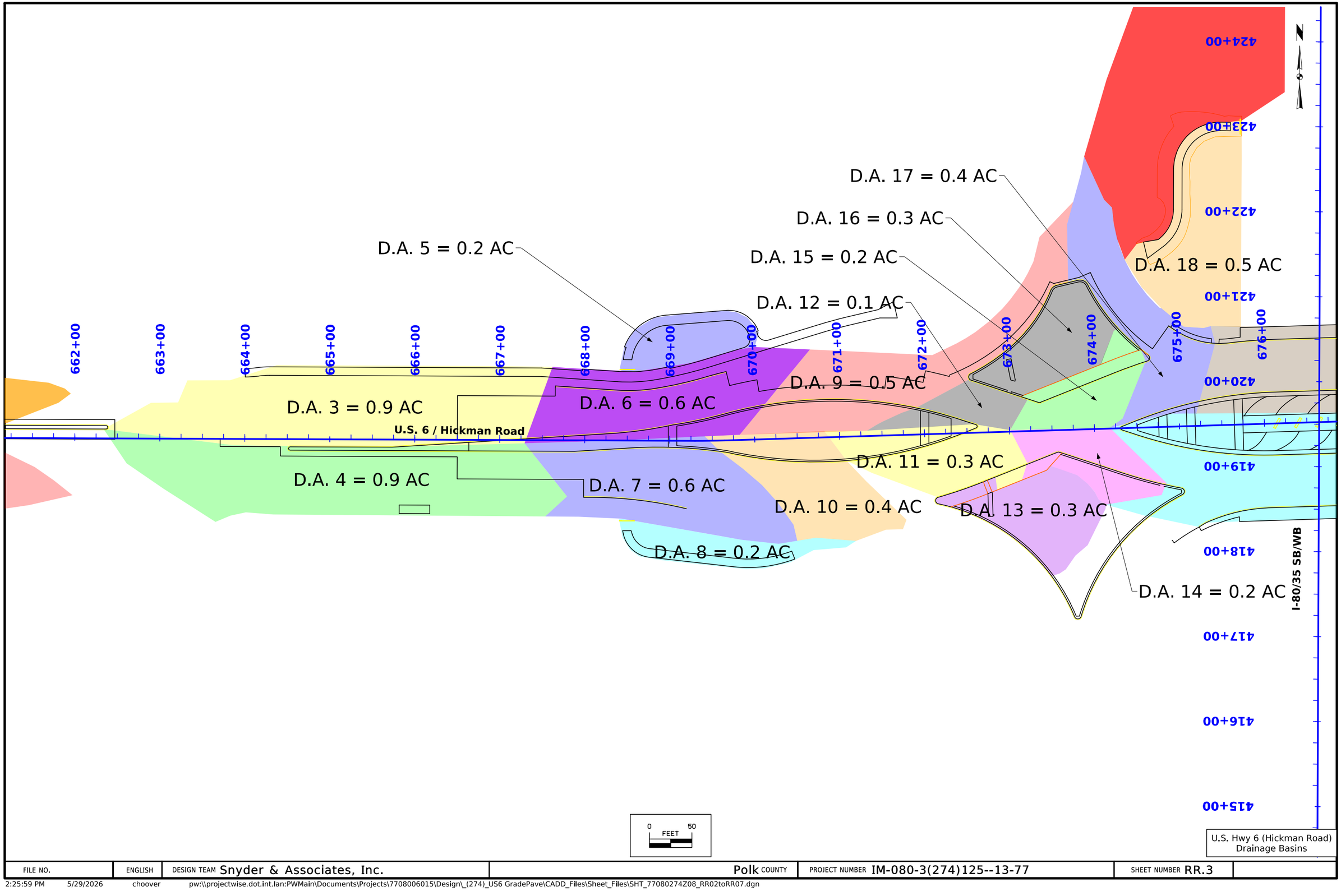
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FEET

U.S. Hwy 6 (Hickman Road)
Drainage Basins

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V2

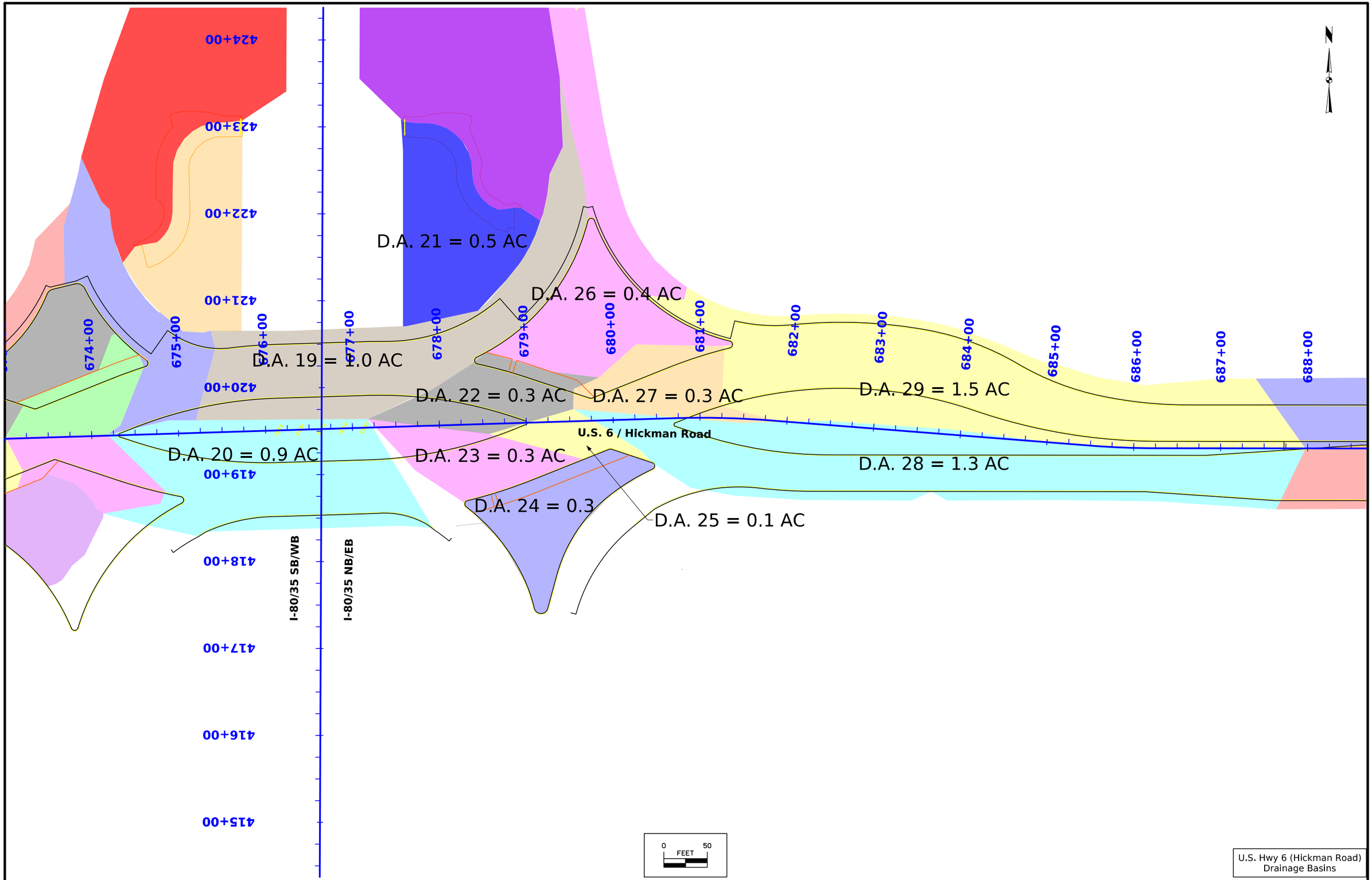


U.S. Hwy 6 (Hickman Road)
Drainage Basins

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V2

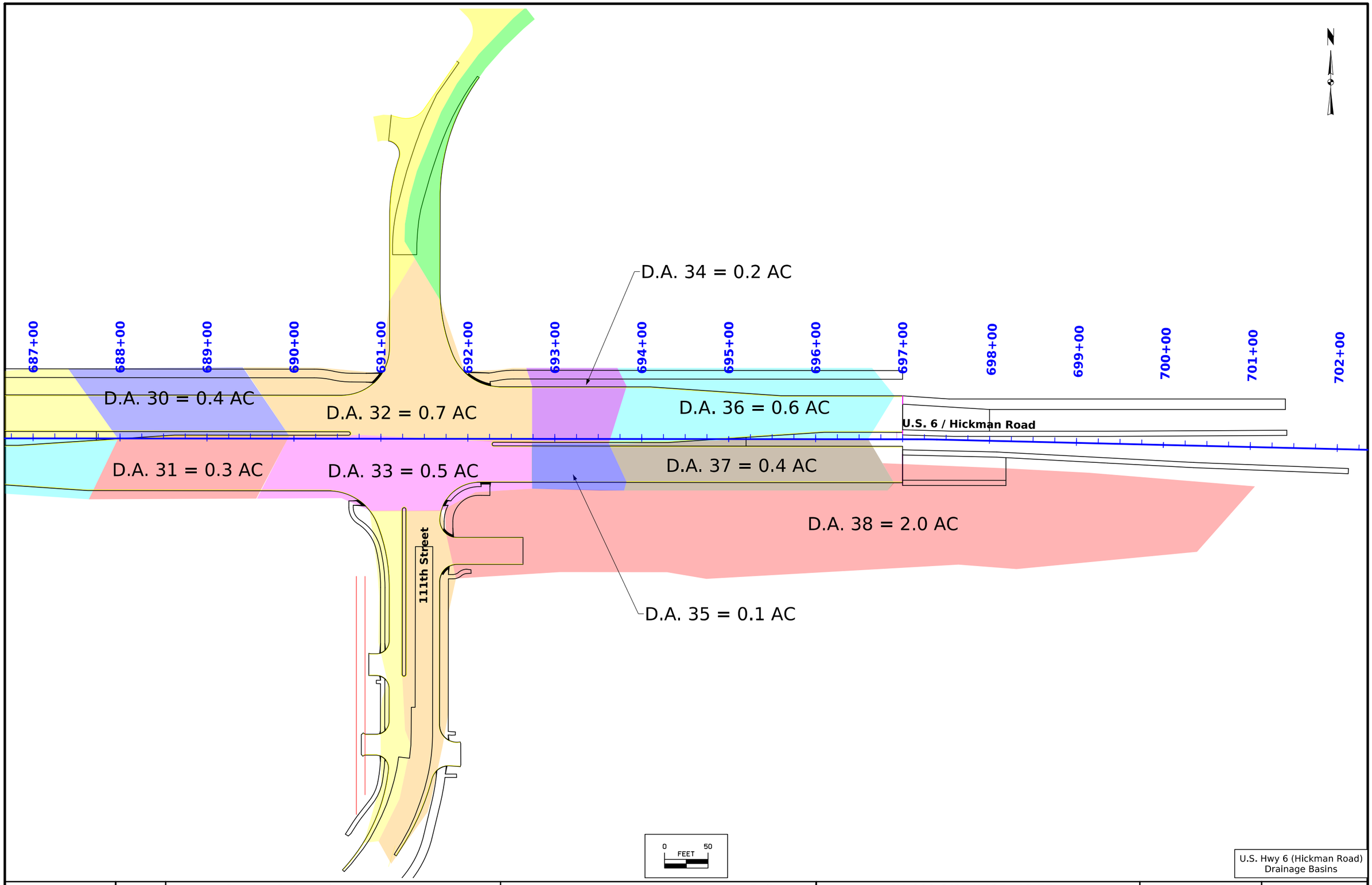


U.S. Hwy 6 (Hickman Road)
Drainage Basins

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER RR.4

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V2

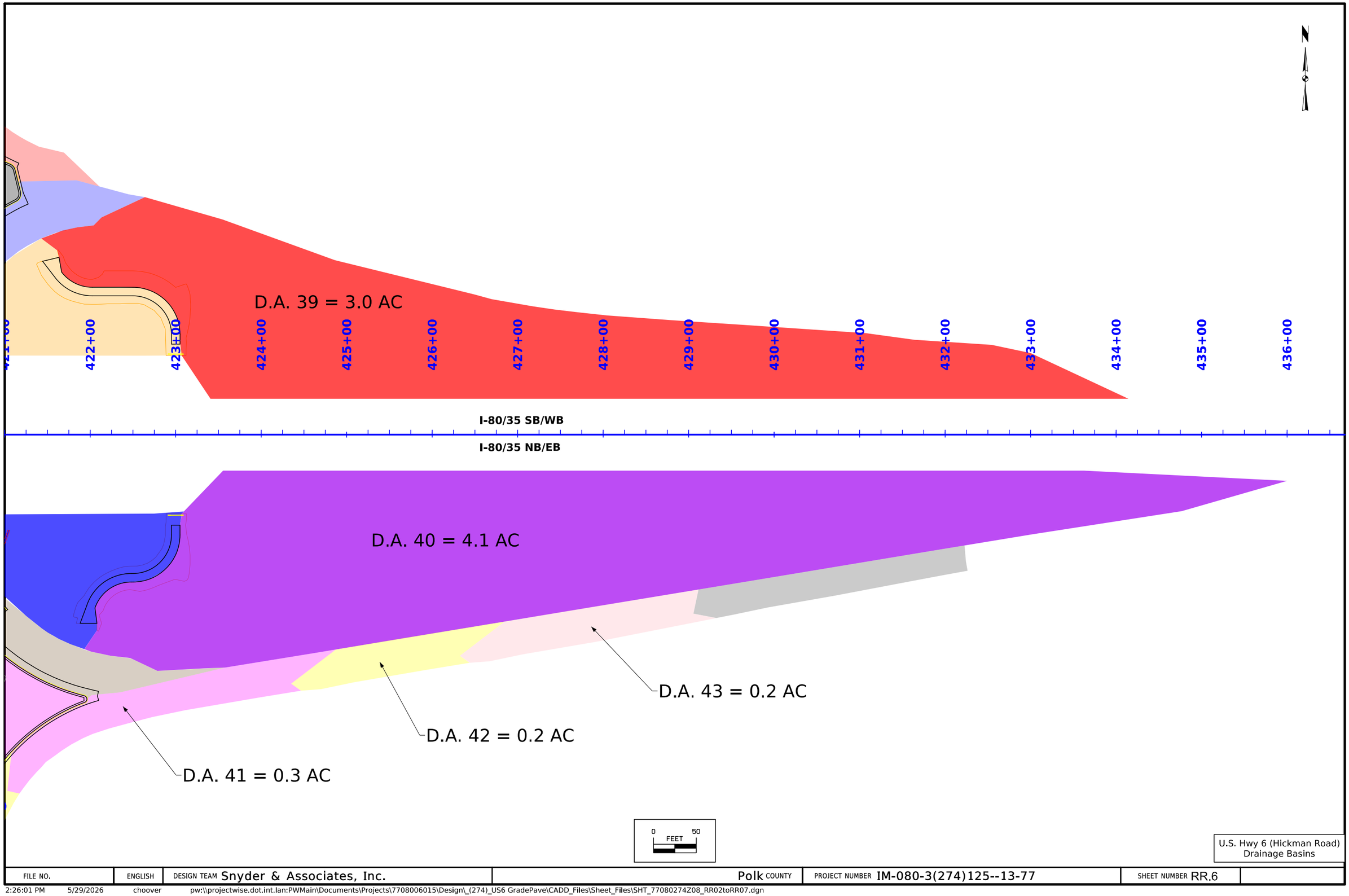


U.S. Hwy 6 (Hickman Road)
Drainage Basins

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER RR.5

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V2

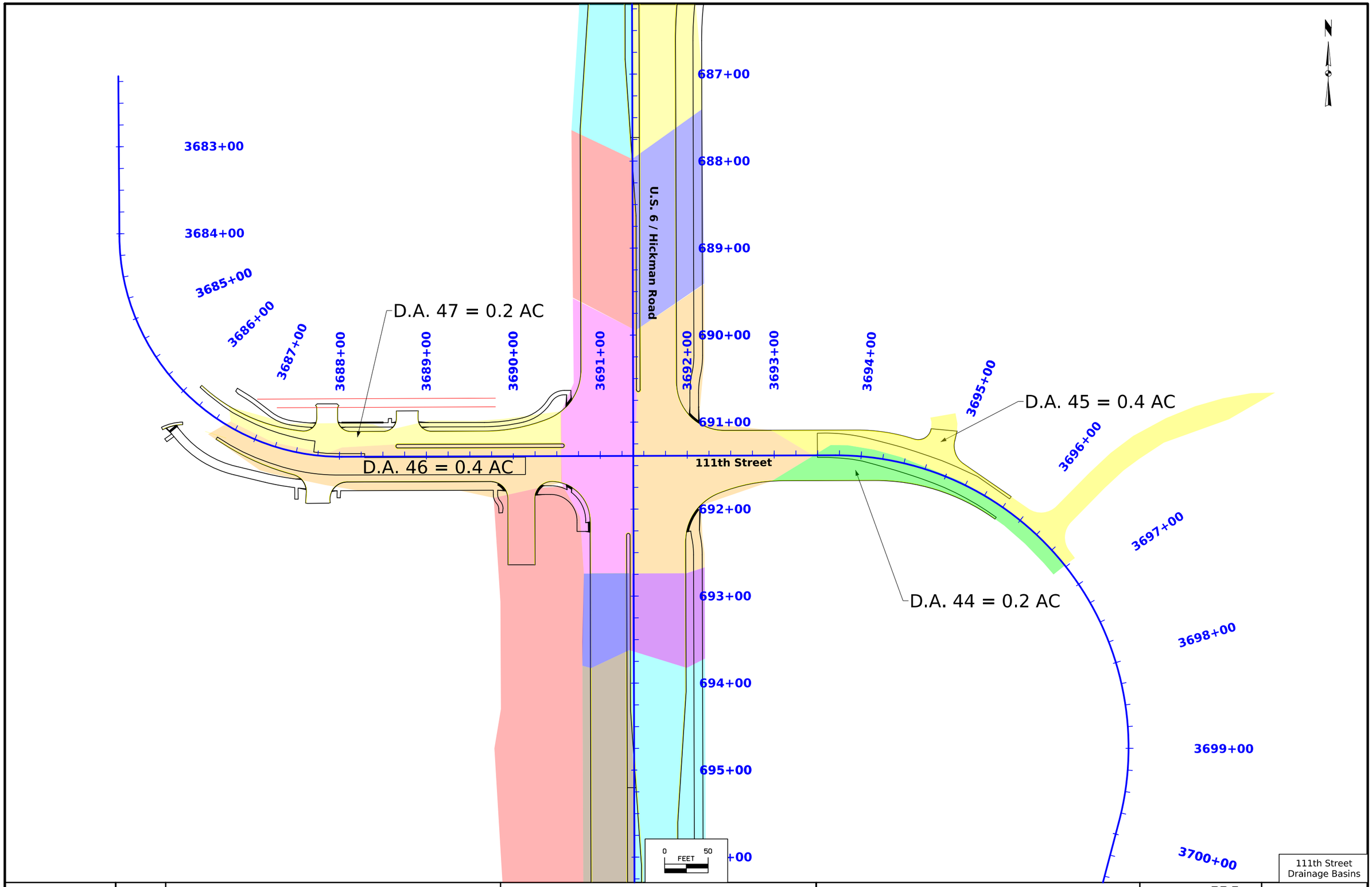


U.S. Hwy 6 (Hickman Road)
Drainage Basins

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER RR.6

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V2



FILE NO.	ENGLISH	DESIGN TEAM	COUNTY	PROJECT NUMBER	SHEET NUMBER RR.7

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V2

657+00
658+00
659+00
660+00
661+00
662+00
663+00

U.S. 6 / Hickman Road

0 20
FEET

U.S. Hwy 6 (Hickman Road)
Erosion Control

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER RR.8	

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V2

663+00
664+00
665+00
666+00
667+00
668+00
669+00

U.S. 6 / Hickman Road

0 20 FEET

U.S. Hwy 6 (Hickman Road)
Erosion Control

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER RR.9	

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V2

670+00
671+00
672+00
673+00
674+00
675+00

U.S. 6 / Hickman Road

0 20 FEET

U.S. Hwy 6 (Hickman Road)
Erosion Control

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER RR.10	

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U.S. 6 / Hickman Road

0 20 FEET

U.S. Hwy 6 (Hickman Road)
Erosion Control

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER RR.11	

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V2

I-80/35 SB/WB

I-80/35 NB/EB

676+00

677+00

678+00

679+00

680+00

681+00

U.S. 6 / Hickman Road

0 20
FEET

U.S. Hwy 6 (Hickman Road)
Erosion Control

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER RR.12

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V2

U.S. 6 / Hickman Road

I-80/35 SB/WB

I-80/35 NB/EB

SIGN

SIGN

SIGN

SIGN

TP

0 20
FEET

U.S. Hwy 6 (Hickman Road)
Erosion Control

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER RR.13

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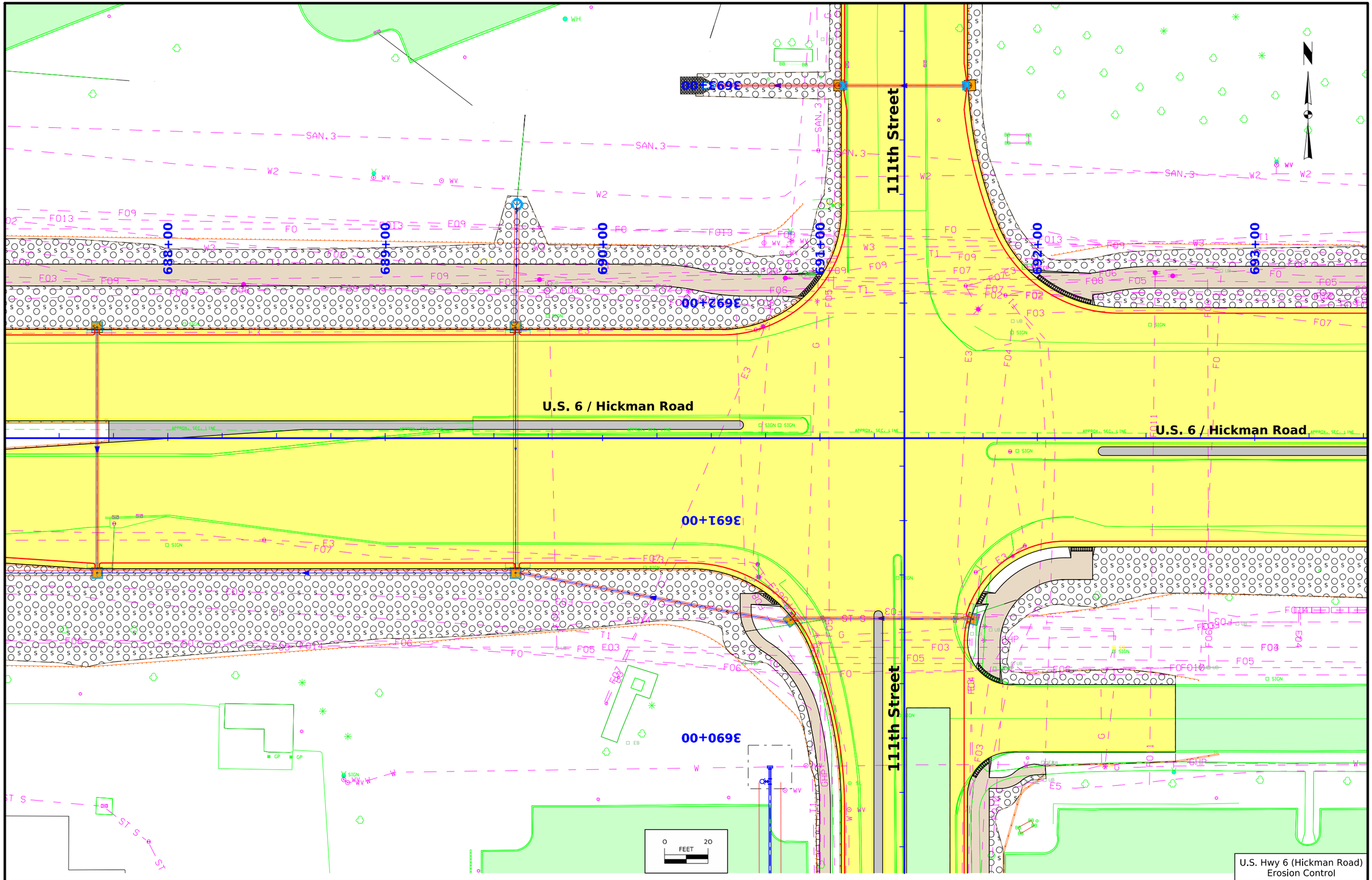
V2

682+00
683+00
684+00
685+00
686+00
687+00
SAN. 3
W2
WV
F08
F09
F013
F0
F02
F03
F014
F06
F07
E3
T1
TA
SIGN
U.S. 6 / Hickman Road
APPROX. SEC. LINE
ST S
0 FEET 20

U.S. Hwy 6 (Hickman Road)
Erosion Control

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER RR.14

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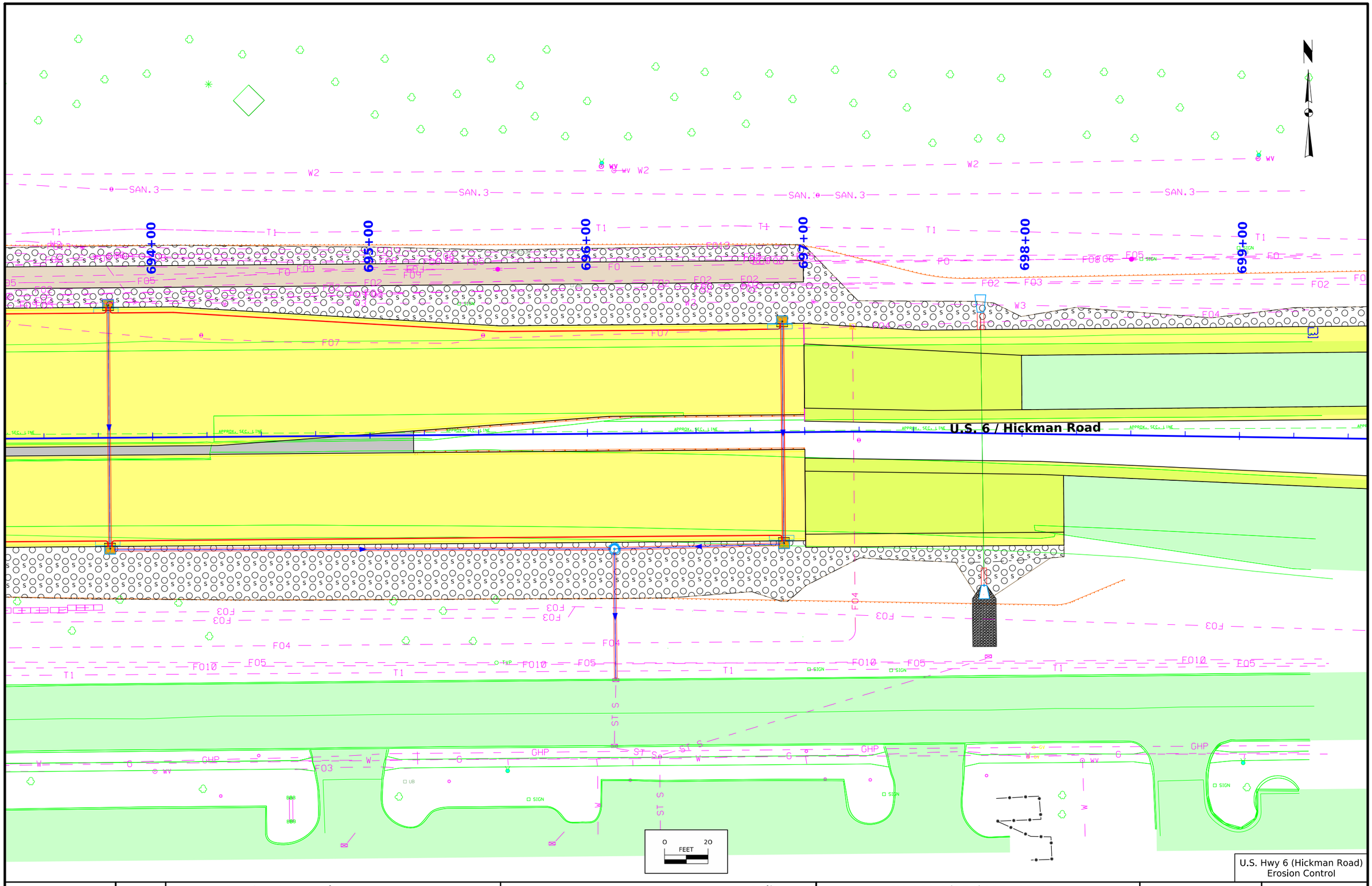


U.S. Hwy 6 (Hickman Road)
Erosion Control

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER RR.15

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V2



U.S. Hwy 6 (Hickman Road)
Erosion Control

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER RR.16

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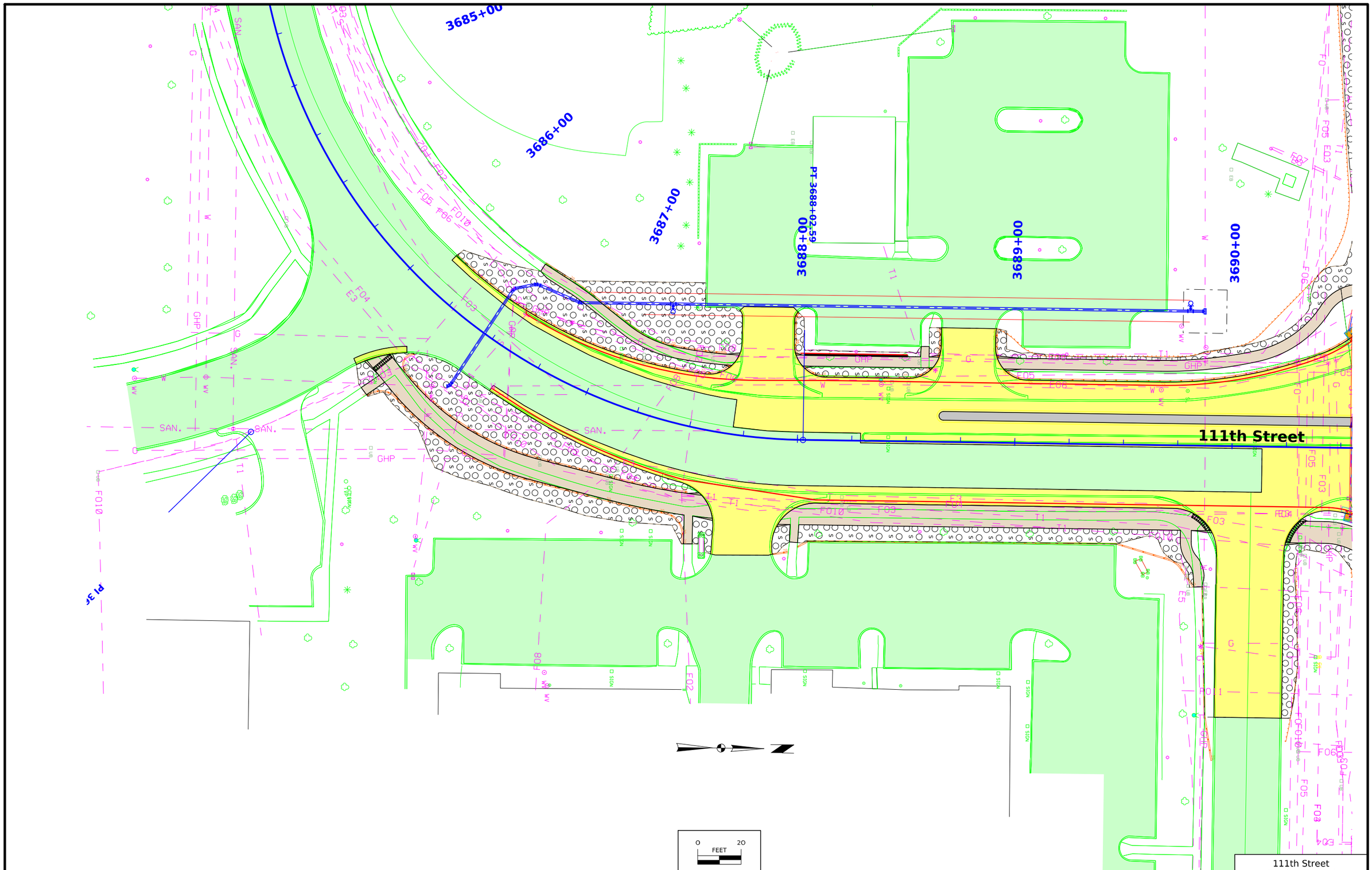
V2

700+00
701+00
702+00
703+00
704+00
705+00
FO3
PI 3707+26.44
U.S. 6 / Hickman Road
APPROX. SEC. LINE
0 20
FEET
U.S. Hwy 6 (Hickman Road)
Erosion Control

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER RR.17	

1:34:27 PM 5/30/2026 ncarhoff pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\7708006015\Design_(274)_US6 GradePave\CADD_Files\Sheet_Files\SHT_77080274Z08_RR08toRR19.dgn

V2



111th Street
Erosion Control

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER RR.18

1:36:06 PM 5/30/2026 ncarhoff pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\7708006015\Design_(274)_US6 GradePave\CADD_Files\Sheet_Files\SHT_77080274Z08_RR08toRR19.dgn

V2

U.S. 6 / Hickman Road

690+00

691+00

692+00

693+00

3691+00

3692+00

3693+00

3694+00

3695+00

111th Street

PC 3693+70.50

U.S. 6 / Hickman Road

0 20
FEET

111th Street
Erosion Control

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER RR.19

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V2

Δ = 01°51'00.00" (LT)
T = 370.00'
L = 739.93'
R = 22916.27'
E = 2.99'
e = ___
L = ___
x = ___

366+00
367+00
368+00
369+00
370+00
371+00
372+00
373+00
374+00
375+00
376+00
377+00
378+00
379+00
380+00
381+00

PI 366+70.68
PI 370+40.61

I-80/35
SB/WB

I-80/35
NB/EB

0 FEET 50

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER RR.20

Interstate 80/35
Erosion Control

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V2

382+00
383+00
384+00
385+00
386+00
387+00
388+00
389+00
390+00
391+00
392+00
393+00
394+00
395+00
396+00
397+00

I-80/35
SB/WB

I-80/35
NB/EB

0 50
FEET

Interstate 80/35
Erosion Control

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER RR.21

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V2

397+00
398+00
399+00
400+00
401+00
402+00
403+00
404+00
405+00
406+00
407+00
408+00
409+00
410+00
411+00
412+00

I-80/35
SB/WB

I-80/35
NB/EB

0 50
FEET

Interstate 80/35
Erosion Control

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER RR.22

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V2

662+00
663+00
664+00
665+00
666+00
667+00
668+00
669+00
670+00
671+00
672+00
673+00
674+00
675+00
676+00

U.S. 6 / Hickman Road

I-80/35 SB/WB

0 50
FEET

U.S. Hwy 6 (Hickman Road)
Seeding

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER RR.30

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V2

I-80/35 NB/EB

677+00
678+00
679+00
680+00
681+00
682+00
683+00
684+00
685+00
686+00
687+00
688+00
689+00
690+00
691+00
692+00

3693+00
3694+00
3695+00
3692+00
3691+00
3690+00
3689+00
3688+00
3687+00
3686+00
3685+00
3683+00
3684+00

U.S. 6 / Hickman Road

111th Street

0 FEET 50

U.S. Hwy 6 (Hickman Road)
Seeding

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER RR.31

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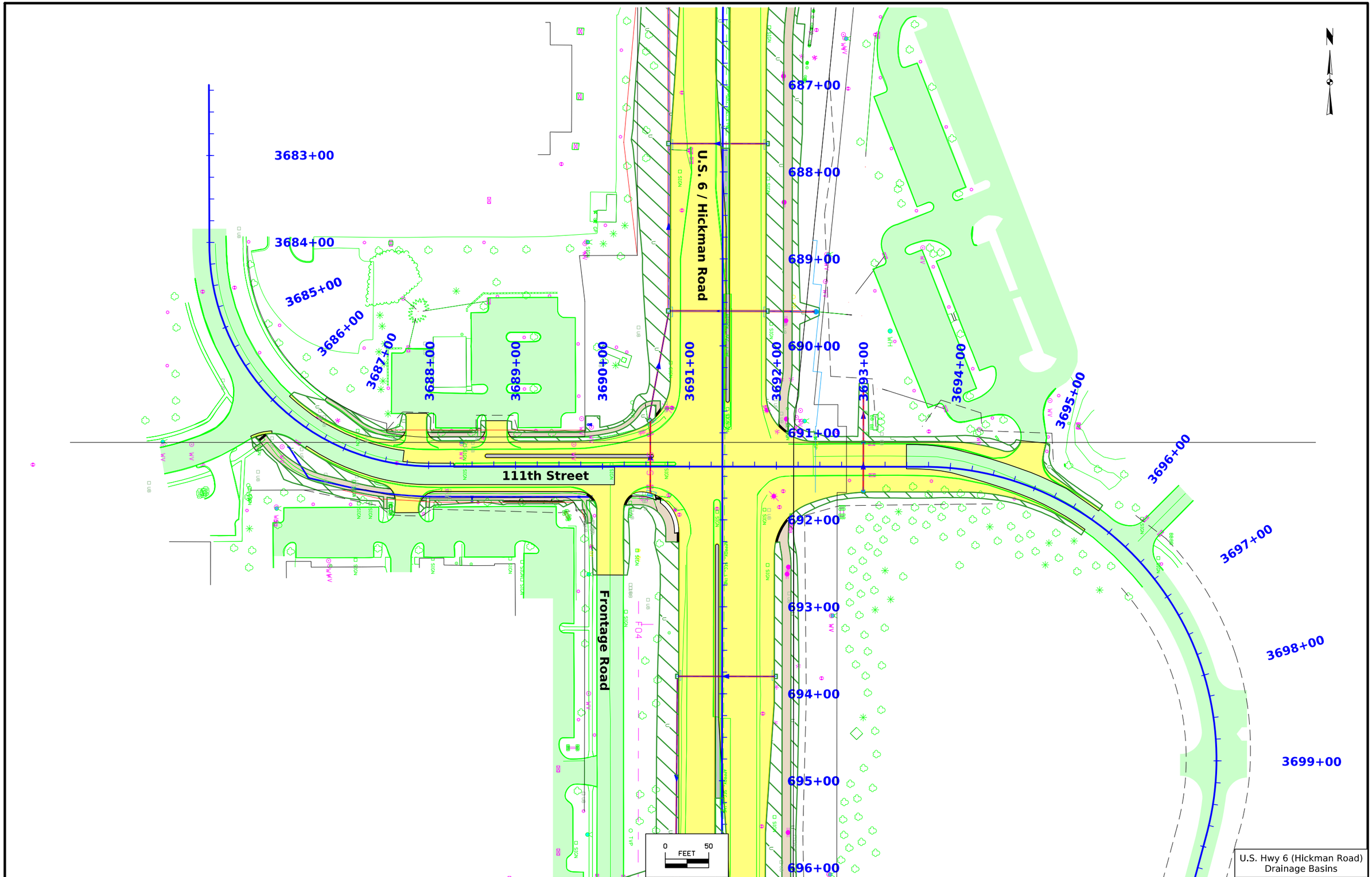
V2

3704+00
3705+00
3706+00
3707+00
3708+00
3709+00
3710+00
692+00
693+00
694+00
695+00
696+00
697+00
698+00
699+00
700+00
701+00
702+00
703+00
704+00
705+00
706+00
707+00
U.S. 6 / Hickman Road
Frontage Road
APPROX. SEC. LINE
F04
TVP
SIGN
WV
UB
0 50
FEET
U.S. Hwy 6 (Hickman Road)
Seeding

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER RR.32

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V2



FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER RR.33

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V2

Δ = 01°51'00.00" (LT)
T = 370.00'
L = 739.93'
R = 22916.27'
E = 2.99'
e = ___
L = ___
x = ___

366+00
367+00
368+00
369+00
370+00
371+00
372+00
373+00
374+00
375+00
376+00
377+00
378+00
379+00
380+00
381+00

PI 366+70.68

PT 370+40.61

I-80/35
SB/WB

I-80/35
NB/EB

0 50
FEET

Interstate 80/35
Seeding

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER RR.34

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V2

382+00
383+00
384+00
385+00
386+00
387+00
388+00
389+00
390+00
391+00
392+00
393+00
394+00
395+00
396+00
397+00

I-80/35
SB/WB

I-80/35
NB/EB

0 50
FEET

Interstate 80/35
Seeding

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER RR.35

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V2

397+00
398+00
399+00
400+00
401+00
402+00
403+00
404+00
405+00
406+00
407+00
408+00
409+00
410+00
411+00
412+00

I-80/35
SB/WB

I-80/35
NB/EB

0 50
FEET

Interstate 80/35
Seeding

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER RR.36	

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V2

PLAN VIEW COLOR LEGEND OF PLAN AND PROFILE SHEETS

LINEWORK	Design Color No.		
Green	(2)		Existing Topographic Features and Labels
Blue	(1)		Proposed Alignment, Stationing, Tic Marks, and Alignment Annotation
Magenta	(5)		Existing Utilities

SHADING	Design Color No.			Transparency
Tan	(8)		Proposed Sidewalk Shading	50%
Blue, Light	(230)		Proposed Sidewalk Landing Shading	50%
Pink	(11)		Proposed Sidewalk Ramp Shading	50%
Magenta	(5)		Detectable Warning	0%
Yellow	(4)		Highlight for Critical Notes or Features	0%
Red	(3)		Delineates Restricted Areas	0%
Lavender	(9)		Temporary Pavement Shading	0%
Yellow	(4)		Proposed Pavement Shading	0%
Orange	(6)		Proposed Granular Shading	0%
Purple	(15)		Proposed Grade and Pave Shading	0%
Brown, Light	(236)		Grading Shading	0%

SIDEWALK LEGEND AND SYMBOL INFORMATION SHEET

(COVERS SHEET SERIES S)

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER S.1	

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V2

WALNUT TWP.
T-79N R-25W
SEC.29
City of Urbandale

50056+00
50057+00
50058+00
669+00
670+00
671+00

S2-100
S2-101
S2-102
S2-103
S2-104
S2-105
S2-106
S2-107
S2-108
S2-109
10' Radius
10' Radius

STA: 50058+75.87
OFF: 9.81' LT
ELV: 899.10

STA: 50058+55.88
OFF: 5.00' LT
ELV: 898.33

STA: 50058+55.88
OFF: 5.00' RT
ELV: 898.18

STA: 50058+75.87
OFF: 9.81' RT
ELV: 899.10

U.S. 6 / Hickman Road

0 10
FEET

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER S.2

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V2

WALNUT TWP.
T-79N R-25W
SEC. 28
City of Clive

WALNUT TWP.
T-79N R-25W
SEC. 28
City of Clive

3693+00

111th Street

50080+00

50081+00

POE 50081+19.00

3692+00

691+00

692+00

693+00

S3-100
S3-101
S3-102
S3-103
S3-104
S3-105
S3-106
S3-107
S3-108
S3-109
S3-110
S3-200
S3-201
S3-202
S3-203
S3-204
S3-205

U.S. 6 / Hickman Road

0 10
FEET

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER S.3

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V2

U.S. 6 / Hickman Road

3691+00

3690+00

S4-101
S4-100
S4-108
S4-102
S4-103
S4-104
S4-105
S4-106
S4-107
S4-112
S4-109
S4-111
S4-110
CURVE 6
CURVE 5
CURVE 3
CURVE 4
CURVE 1
CURVE 2

111th Street

S4-213
S4-212
CURVE 9
S4-211
S4-210
S4-209
S4-208
S4-207
S4-206
S4-205
S4-214
S4-215
S4-216
S4-217
CURVE 7
S4-200
S4-201
S4-202
S4-203
S4-204
CURVE 8

S4-304
S4-305
CURVE 10
CURVE 12
S4-303
S4-302
S4-301
S4-300
S4-306
S4-307
CURVE 13
CURVE 11
S4-308
S4-309
S4-310

F04

WALNUT TWP.
T-79N R-25W
SEC. 33
City of Clive

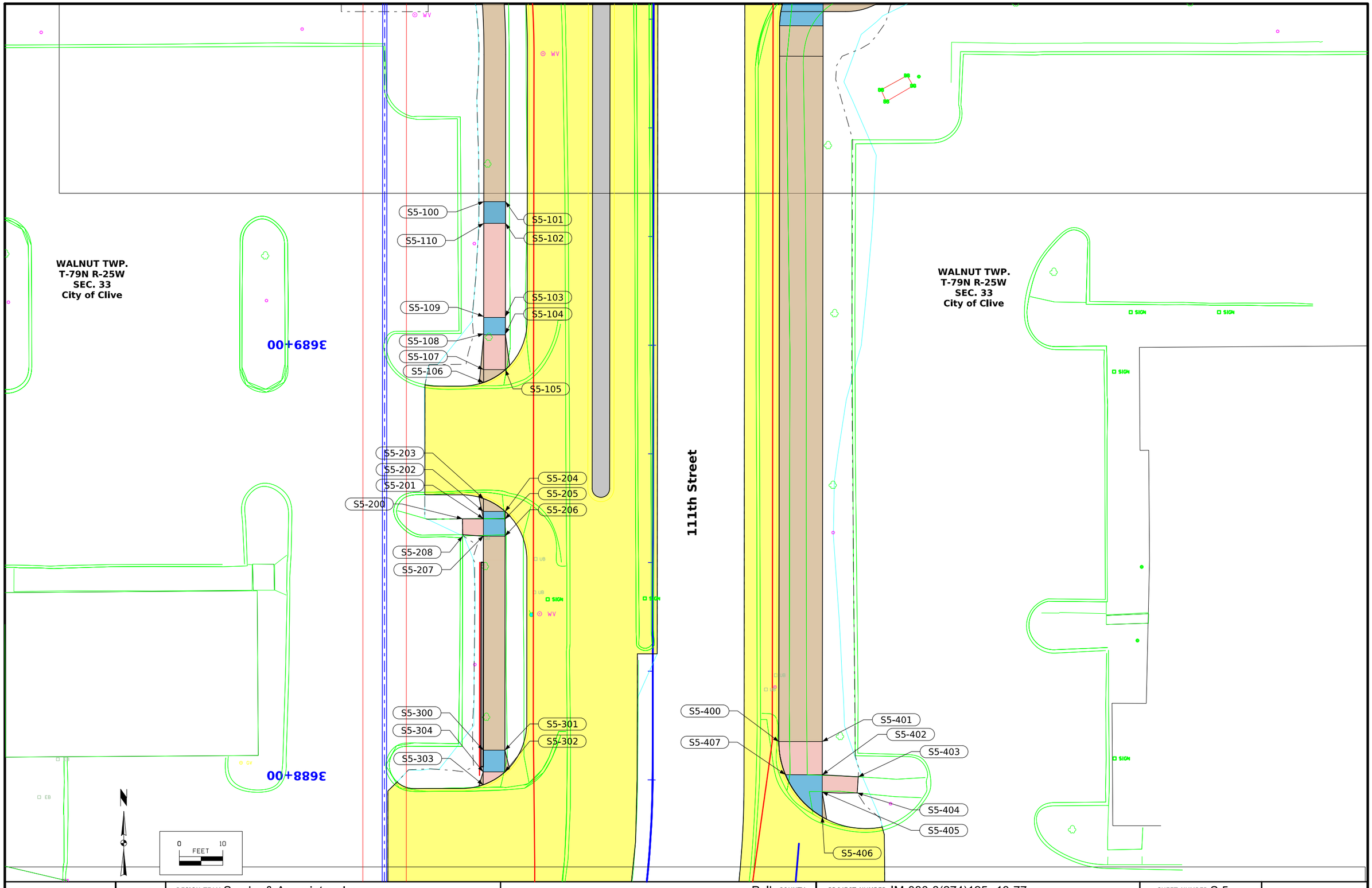
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FEET

HORIZONTAL CURVE DATA				
CURVE #	RADIUS	PC	PI	PT
CURVE 1	190'	3689+66.80 39.00' LT	3689+87.80 38.87' LT	3690+10.63 44.14' LT
CURVE 2	195'	3689+66.80 34.00' LT	3689+89.60 34.01' LT	3690+11.78 39.28' LT
CURVE 3	52.5'	3690+11.78 39.28' LT	3690+32.62 44.23' LT	3690+44.05 62.34' LT
CURVE 4	47.5'	3690+10.63 44.14' LT	3690+29.48 48.62' LT	3690+39.82 65.01' LT
CURVE 5	22.5'	3690+39.82 65.01' LT	3690+46.45 75.50' LT	3690+58.85 75.50' LT
CURVE 6	17.5'	3690+44.05 62.34' LT	3690+49.13 70.50' LT	3690+58.83 70.50' LT
CURVE 7	30'	3690+42.65 44.00' RT	3690+72.90 44.00' RT	3690+72.90 73.97' RT
CURVE 8	40'	3690+43.23 34.00' RT	3690+52.98 34.08' RT	3690+61.59 38.63' RT
CURVE 9	40'	3690+66.59 41.77' RT	3690+82.90 53.75' RT	3680+82.90 73.96' RT
CURVE 10	10'	3689+81.80 44.17' RT	3689+81.80 47.93' RT	3689+84.28 50.76' RT
CURVE 11	15'	3689+76.80 44.18' RT	3689+76.80 49.82' RT	3689+80.52 54.05' RT
CURVE 12	15'	3689+84.28 50.76' RT	3689+87.69 54.65' RT	3689+87.98 59.82' RT
CURVE 13	10'	3689+80.52 54.05' RT	3689+82.80 56.65' RT	3689+82.99 60.09' RT

FILE NO. | ENGLISH | DESIGN TEAM Snyder & Associates, Inc. | Polk COUNTY | PROJECT NUMBER IM-080-3(274)125--13-77 | SHEET NUMBER S.4

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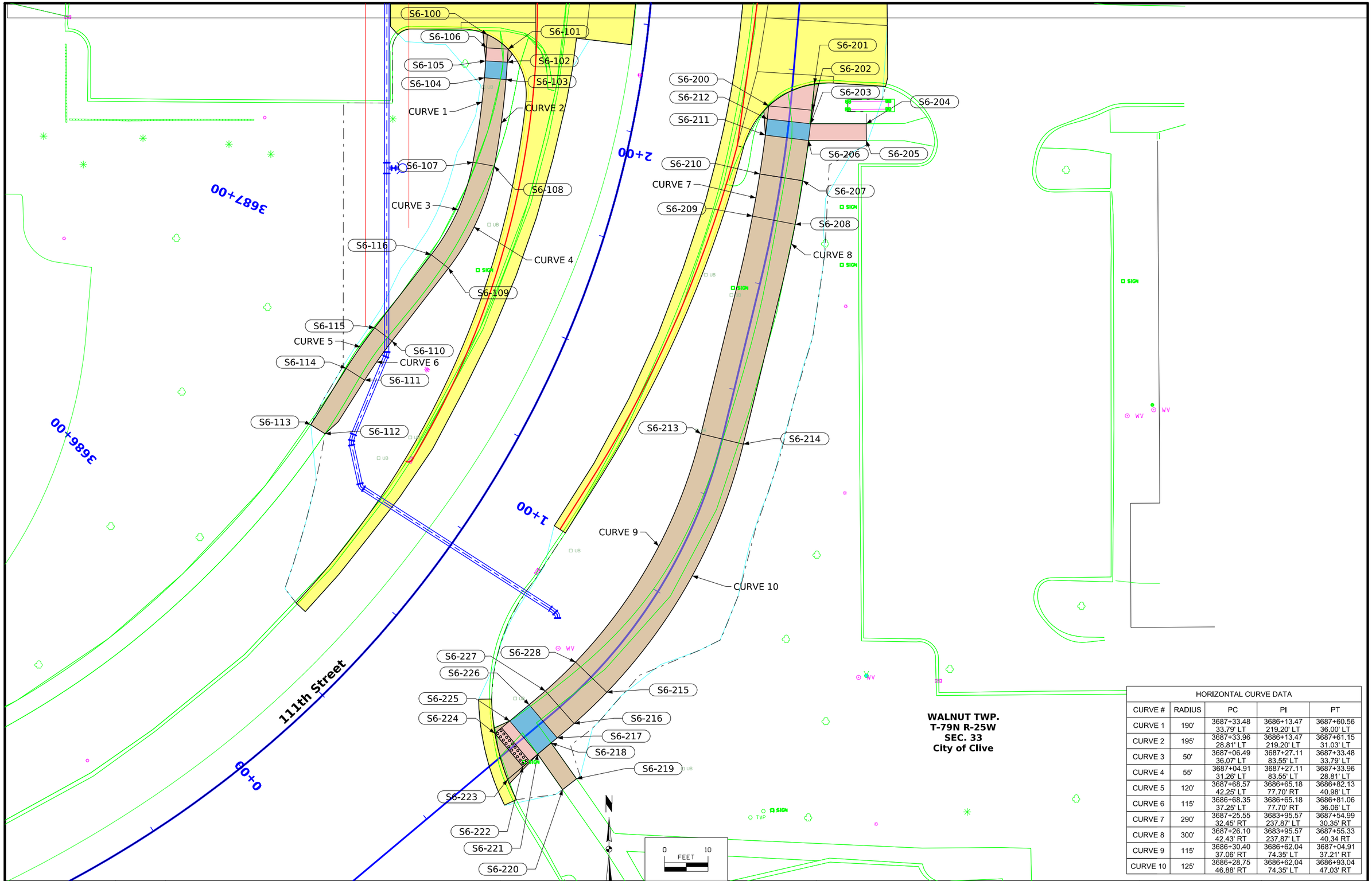
V2



FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER S.5

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V2



HORIZONTAL CURVE DATA				
CURVE #	RADIUS	PC	PI	PT
CURVE 1	190'	3687+33.48 33.79' LT	3686+13.47 219.20' LT	3687+60.56 36.00' LT
CURVE 2	195'	3687+33.96 28.81' LT	3686+13.47 219.20' LT	3687+61.15 31.03' LT
CURVE 3	50'	3687+06.49 36.07' LT	3687+27.11 83.55' LT	3687+33.48 33.79' LT
CURVE 4	55'	3687+04.91 31.26' LT	3687+27.11 83.55' LT	3687+33.96 28.81' LT
CURVE 5	120'	3687+68.57 42.25' LT	3686+65.18 77.70' RT	3686+82.13 40.98' LT
CURVE 6	115'	3686+68.35 37.25' LT	3686+65.18 77.70' RT	3686+81.06 36.06' LT
CURVE 7	290'	3687+25.55 32.45' RT	3683+95.57 237.87' LT	3687+54.99 30.35' RT
CURVE 8	300'	3687+26.10 42.43' RT	3683+95.57 237.87' LT	3687+55.33 40.34 RT
CURVE 9	115'	3686+30.40 37.06' RT	3686+62.04 74.35' LT	3687+04.91 37.21' RT
CURVE 10	125'	3686+28.75 46.88' RT	3686+62.04 74.35' LT	3686+93.04 47.03' RT

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER S.6

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V2

SIDEWALK COMPLIANCE

See S Sheets

* Does not include curb
1. Staking required by Contracting Authority per Article 2511.03 of the Standard Specifications.
2. Refer to tabulation 113-01 for bid quantities.
3. See Tab 113-10A for point location information.

Line No.	Roadway Identification	Starting Elevation	Ending Elevation	From Point	Ending Point	Sidewalk Designation	Sidewalk Thickness (IN)	Distance* (FT)	Change in Elevation (FT)	Slope (%)	Acceptable Constructed Range	Staking Required? (1)	Measured Slope (%)	Initials	Remarks
1.0	U.S. 6 / Hickman Road	894.72	894.82	S2-100	S2-101	Sidewalk Cross Slope	4	10.00	0.10	1.0	0.5% to 2.0%				
2.0	U.S. 6 / Hickman Road	894.82	894.89	S2-101	S2-102	Sidewalk Running Slope	4	10.00	0.07	0.7	0.5% to 5.0%				
3.0	U.S. 6 / Hickman Road	894.89	894.73	S2-102	S2-105	Landing/Turning Space	4	10.00	-0.16	-1.6	0.1% to 2.0%	Yes			
4.0	U.S. 6 / Hickman Road	894.89	894.92	S2-102	S2-103	Sidewalk Running Slope	4	10.00	0.03	0.3	0.5% to 5.0%				Located In Sag Curve
5.0	U.S. 6 / Hickman Road	894.92	894.76	S2-103	S2-104	Sidewalk Cross Slope	4	10.00	-0.16	-1.6	0.5% to 2.0%	Yes			
6.0	U.S. 6 / Hickman Road	894.76	894.73	S2-104	S2-105	Sidewalk Running Slope	4	10.00	-0.03	-0.3	0.5% to 5.0%				Located In Sag Curve
7.0	U.S. 6 / Hickman Road	894.73	894.76	S2-105	S2-106	Landing/Turning Space	4	10.00	0.03	0.3	0.1% to 2.0%				Located In Sag Curve
8.0	U.S. 6 / Hickman Road	894.76	894.90	S2-106	S2-109	Landing/Turning Space	4	10.00	0.14	1.4	0.1% to 2.0%				
9.0	U.S. 6 / Hickman Road	894.76	894.78	S2-106	S2-107	Sidewalk Running Slope	4	10.00	0.02	0.2	0.5% to 5.0%				Located In Sag Curve
10.0	U.S. 6 / Hickman Road	894.78	894.94	S2-107	S2-108	Sidewalk Cross Slope	4	10.00	0.16	1.6	0.5% to 2.0%	Yes			
11.0	U.S. 6 / Hickman Road	894.94	894.90	S2-108	S2-109	Sidewalk Running Slope	4	10.00	-0.04	-0.4	0.5% to 5.0%				Located In Sag Curve
12.0	U.S. 6 / Hickman Road	894.90	894.89	S2-109	S2-102	Landing/Turning Space	4	10.00	-0.01	-0.1	0.1% to 2.0%				Located In Sag Curve
13.0	U.S. 6 / Hickman Road	894.90	894.72	S2-109	S2-100	Sidewalk Running Slope	4	10.00	-0.18	-1.8	0.5% to 5.0%				
14.0	111th Street	888.85	889.23	S3-100	S3-101	Sidewalk Running Slope	4	22.94	0.38	1.7	0.5% to 5.0%				
15.0	111th Street	889.23	889.08	S3-101	S3-109	Sidewalk Cross Slope	4	10.00	-0.15	-1.5	0.5% to 2.0%				
16.0	111th Street	889.23	889.50	S3-101	S3-102	Sidewalk Running Slope	4	20.75	0.27	1.3	0.5% to 5.0%				
17.0	111th Street	889.50	889.35	S3-102	S3-108	Sidewalk Cross Slope	4	10.00	-0.15	-1.5	0.5% to 2.0%				
18.0	111th Street	889.50	889.18	S3-102	S3-103	Sidewalk Running Slope	4	16.19	-0.32	-2.0	0.5% to 5.0%				
19.0	111th Street	889.18	889.03	S3-103	S3-107	Landing/Turning Space	4	10.00	-0.15	-1.5	0.1% to 2.0%				
20.0	111th Street	889.18	889.03	S3-103	S3-104	Landing/Turning Space	4	10.00	-0.15	-1.5	0.1% to 2.0%				
21.0	111th Street	889.03	888.87	S3-104	S3-106	Landing/Turning Space	4	10.00	-0.16	-1.6	0.1% to 2.0%	Yes			
22.0	111th Street	889.03	888.99	S3-104	S3-105	Landing/Turning Space	4	8.27	-0.04	-0.5	0.1% to 2.0%				
23.0	111th Street	888.99	888.87	S3-105	S3-106	Landing/Turning Space	4	13.02	-0.12	-0.9	0.1% to 2.0%				
24.0	111th Street	888.87	889.03	S3-106	S3-107	Landing/Turning Space	4	10.00	0.16	1.6	0.1% to 2.0%				
25.0	111th Street	889.03	889.35	S3-107	S3-108	Sidewalk Running Slope	4	16.20	0.32	2.0	0.5% to 5.0%				
26.0	111th Street	889.35	889.08	S3-108	S3-109	Sidewalk Running Slope	4	22.94	-0.27	-1.2	0.5% to 5.0%				
27.0	111th Street	889.08	888.70	S3-109	S3-110	Sidewalk Running Slope	4	20.75	-0.38	-1.8	0.5% to 5.0%				
28.0	111th Street	888.70	888.85	S3-110	S3-100	Sidewalk Cross Slope	4	10.00	0.15	1.5	0.5% to 2.0%				
29.0	111th Street	890.13	890.55	S3-200	S3-201	Landing/Turning Space	4	27.52	0.42	1.5	0.1% to 2.0%				
30.0	111th Street	890.55	890.40	S3-201	S3-204	Landing/Turning Space	4	10.00	-0.15	-1.5	0.1% to 2.0%				
31.0	111th Street	890.55	891.19	S3-201	S3-202	Sidewalk Running Slope	4	28.51	0.64	2.2	0.5% to 5.0%				
32.0	111th Street	891.19	891.04	S3-202	S3-203	Sidewalk Cross Slope	4	10.00	-0.15	-1.5	0.5% to 2.0%				
33.0	111th Street	891.04	890.40	S3-203	S3-204	Sidewalk Running Slope	4	27.42	-0.64	-2.3	0.5% to 5.0%				
34.0	111th Street	890.40	890.33	S3-204	S3-205	Landing/Turning Space	4	4.56	-0.07	-1.5	0.1% to 2.0%				
35.0	111th Street	890.33	890.13	S3-205	S3-200	Landing/Turning Space	4	32.67	-0.20	-0.6	0.1% to 2.0%				
36.0	111th Street	888.77	888.85	S4-100	S4-108	Landing/Turning Space	4	5.00	0.08	1.6	0.1% to 2.0%	Yes			
37.0	111th Street	888.77	888.70	S4-100	S4-101	Landing/Turning Space	4	5.00	-0.07	-1.4	0.1% to 2.0%				
38.0	111th Street	888.70	888.77	S4-101	S4-107	Landing/Turning Space	4	5.00	0.07	1.4	0.1% to 2.0%				
39.0	111th Street	888.70	888.40	S4-101	S4-102	Ramp Running Slope	6	4.08	-0.30	-7.4	0.5% to 8.3%	Yes			
40.0	111th Street	888.40	888.46	S4-102	S4-106	Landing/Turning Space	4	5.00	0.06	1.2	0.1% to 2.0%				
41.0	111th Street	888.40	888.35	S4-102	S4-103	Landing/Turning Space	4	3.02	-0.05	-1.7	0.1% to 2.0%	Yes			
42.0	111th Street	888.35	888.31	S4-103	S4-104	Landing/Turning Space	4	7.80	-0.04	-0.5	0.1% to 2.0%				
43.0	111th Street	888.31	888.41	S4-104	S4-105	Landing/Turning Space	4	6.01	0.10	1.7	0.1% to 2.0%				
44.0	111th Street	888.41	888.46	S4-105	S4-106	Landing/Turning Space	4	3.00	0.05	1.7	0.1% to 2.0%	Yes			
45.0	111th Street	888.46	888.77	S4-106	S4-107	Ramp Running Slope	6	4.08	0.31	7.6	0.5% to 8.3%	Yes			
46.0	111th Street	888.77	888.85	S4-107	S4-108	Landing/Turning Space	4	5.00	0.08	1.6	0.1% to 2.0%	Yes			
47.0	111th Street	888.85	889.34	S4-108	S4-109	Sidewalk Running Slope	4	25.30	0.49	1.9	0.5% to 5.0%				
48.0	111th Street	889.34	889.26	S4-109	S4-112	Sidewalk Cross Slope	4	5.00	-0.08	-1.6	0.5% to 2.0%	Yes			
49.0	111th Street	889.34	888.38	S4-109	S4-110	Sidewalk Running Slope	4	36.80	-0.96	-2.6	0.5% to 5.0%				
50.0	111th Street	888.38	888.30	S4-110	S4-111	Sidewalk Running Slope	4	5.00	-0.08	-1.6	0.5% to 5.0%				
51.0	111th Street	888.30	889.26	S4-111	S4-112	Sidewalk Running Slope	4	40.67	0.96	2.4	0.5% to 5.0%				

SIDEWALK COMPLIANCE

See S Sheets

* Does not include curb
1. Staking required by Contracting Authority per Article 2511.03 of the Standard Specifications.
2. Refer to tabulation 113-01 for bid quantities.
3. See Tab 113-10A for point location information.

Line No.	Roadway Identification	Starting Elevation	Ending Elevation	From Point	Ending Point	Sidewalk Designation	Sidewalk Thickness (IN)	Distance* (FT)	Change in Elevation (FT)	Slope (%)	Acceptable Constructed Range	Staking Required? (1)	Measured Slope (%)	Initials	Remarks
52.0	111th Street	889.26	888.77	S4-112	S4-107	Sidewalk Running Slope	4	20.25	-0.49	-2.4	0.5% to 5.0%				
53.0	111th Street	889.43	889.36	S4-200	S4-201	Landing/Turning Space	4	4.43	-0.07	-1.6	0.1% to 2.0%	Yes			
54.0	111th Street	889.36	889.49	S4-201	S4-208	Landing/Turning Space	4	10.00	0.13	1.3	0.1% to 2.0%				
55.0	111th Street	889.36	889.15	S4-201	S4-202	Sidewalk Running Slope	4	7.13	-0.21	-2.9	0.5% to 5.0%				
56.0	111th Street	889.15	889.30	S4-202	S4-207	Sidewalk Cross Slope	4	10.00	0.15	1.5	0.5% to 2.0%				
57.0	111th Street	889.15	888.02	S4-202	S4-203	Ramp Running Slope	6	15.00	-1.13	-7.5	0.5% to 8.3%	Yes			
58.0	111th Street	888.02	888.17	S4-203	S4-206	Landing/Turning Space	4	10.00	0.15	1.5	0.1% to 2.0%				
59.0	111th Street	888.02	887.89	S4-203	S4-204	Landing/Turning Space	4	10.18	-0.13	-1.3	0.1% to 2.0%				
60.0	111th Street	887.89	888.11	S4-204	S4-205	Landing/Turning Space	4	11.93	0.22	1.8	0.1% to 2.0%	Yes			
61.0	111th Street	888.11	888.17	S4-205	S4-206	Landing/Turning Space	4	4.00	0.06	1.5	0.1% to 2.0%				
62.0	111th Street	888.17	889.30	S4-206	S4-207	Ramp Running Slope	6	17.49	1.13	6.5	0.5% to 8.3%				
63.0	111th Street	889.30	889.49	S4-207	S4-208	Sidewalk Running Slope	4	9.50	0.19	2.0	0.5% to 5.0%				
64.0	111th Street	889.49	889.58	S4-208	S4-211	Landing/Turning Space	4	5.91	0.09	1.5	0.1% to 2.0%				
65.0	111th Street	889.49	889.10	S4-208	S4-209	Ramp Running Slope	6	5.57	-0.39	-7.0	0.5% to 8.3%				
66.0	111th Street	889.10	889.20	S4-209	S4-210	Ramp Cross Slope	6	5.69	0.10	1.8	0.1% to 2.0%	Yes			
67.0	111th Street	889.20	889.58	S4-210	S4-211	Ramp Running Slope	6	6.02	0.38	6.3	0.5% to 8.3%				
68.0	111th Street	889.58	889.43	S4-211	S4-200	Landing/Turning Space	4	10.00	-0.15	-1.5	0.1% to 2.0%				
69.0	111th Street	889.58	890.66	S4-211	S4-212	Sidewalk Running Slope	4	40.08	1.08	2.7	0.5% to 5.0%				
70.0	111th Street	890.66	890.69	S4-212	S4-217	Landing/Turning Space	4	10.00	0.03	0.3	0.1% to 2.0%				
71.0	111th Street	890.66	890.69	S4-212	S4-215	Landing/Turning Space	4	10.00	0.03	0.3	0.1% to 2.0%				
72.0	111th Street	890.66	890.58	S4-212	S4-213	Landing/Turning Space	4	5.00	-0.08	-1.6	0.1% to 2.0%	Yes			
73.0	111th Street	890.58	890.62	S4-213	S4-214	Landing/Turning Space	4	10.00	0.04	0.4	0.1% to 2.0%				
74.0	111th Street	890.62	890.69	S4-214	S4-215	Landing/Turning Space	4	5.00	0.07	1.4	0.1% to 2.0%				
75.0	111th Street	890.69	890.84	S4-215	S4-216	Landing/Turning Space	4	10.00	0.15	1.5	0.1% to 2.0%				
76.0	111th Street	890.84	890.69	S4-216	S4-217	Landing/Turning Space	4	10.00	-0.15	-1.5	0.1% to 2.0%				
77.0	111th Street	890.69	889.43	S4-217	S4-200	Sidewalk Running Slope	4	30.72	-1.26	-4.1	0.5% to 5.0%	Yes			
78.0	111th Street	886.64	886.76	S4-300	S4-301	Sidewalk Running Slope	4	7.00	0.12	1.7	0.5% to 5.0%				
79.0	111th Street	886.76	886.91	S4-301	S4-309	Landing/Turning Space	4	10.00	0.15	1.5	0.1% to 2.0%				
80.0	111th Street	886.76	886.82	S4-301	S4-302	Landing/Turning Space	4	3.28	0.06	1.8	0.1% to 2.0%	Yes			
81.0	111th Street	886.82	886.95	S4-302	S4-308	Landing/Turning Space	4	9.73	0.13	1.3	0.1% to 2.0%				
82.0	111th Street	886.82	886.91	S4-302	S4-303	Landing/Turning Space	4	5.24	0.09	1.7	0.1% to 2.0%	Yes			
83.0	111th Street	886.91	887.03	S4-303	S4-305	Landing/Turning Space	4	8.21	0.12	1.5	0.1% to 2.0%				
84.0	111th Street	886.91	887.14	S4-303	S4-304	Landing/Turning Space	4	12.42	0.23	1.9	0.1% to 2.0%	Yes			
85.0	111th Street	887.14	887.03	S4-304	S4-305	Landing/Turning Space	4	9.06	-0.11	-1.2	0.1% to 2.0%				
86.0	111th Street	887.03	886.95	S4-305	S4-308	Landing/Turning Space	6	5.00	-0.08	-1.6	0.1% to 2.0%	Yes			
87.0	111th Street	887.03	887.41	S4-305	S4-306	Sidewalk Running Slope	4	27.44	0.38	1.4	0.5% to 5.0%				
88.0	111th Street	887.41	887.35	S4-306	S4-307	Match Existing Cross Slope	4	3.97	-0.06	-1.5	Match Existing				
89.0	111th Street	887.35	886.95	S4-307	S4-308	Sidewalk Running Slope	4	27.61	-0.40	-1.4	0.5% to 5.0%				
90.0	111th Street	886.95	886.91	S4-308	S4-309	Landing/Turning Space	4	3.26	-0.04	-1.2	0.1% to 2.0%				
91.0	111th Street	886.91	886.79	S4-309	S4-310	Sidewalk Running Slope	4	7.00	-0.12	-1.7	0.5% to 5.0%				
92.0	111th Street	886.79	886.64	S4-310	S4-300	Sidewalk Cross Slope	4	10.00	-0.15	-1.5	0.5% to 2.0%				
93.0	111th Street	886.02	885.94	S5-100	S5-101	Landing/Turning Space	4	5.00	-0.08	-1.6	0.1% to 2.0%	Yes			
94.0	111th Street	885.94	885.86	S5-101	S5-102	Landing/Turning Space	4	5.00	-0.08	-1.6	0.1% to 2.0%	Yes			
95.0	111th Street	885.86	885.94	S5-102	S5-110	Landing/Turning Space	4	5.00	0.08	1.6	0.1% to 2.0%	Yes			
96.0	111th Street	885.86	884.47	S5-102	S5-103	Ramp Running Slope	6	21.64	-1.39	-6.4	0.5% to 8.3%				
97.0	111th Street	884.47	884.55	S5-103	S5-109	Landing/Turning Space	4	5.00	0.08	1.6	0.1% to 2.0%	Yes			
98.0	111th Street	884.47	884.41	S5-103	S5-104	Landing/Turning Space	4	4.00	-0.06	-1.5	0.1% to 2.0%				
99.0	111th Street	884.41	883.81	S5-104	S5-105	Ramp Running Slope	6	8.00	-0.60	-7.5	0.5% to 8.3%	Yes			
100.0	111th Street	883.81	883.88	S5-105	S5-107	Ramp Cross Slope	6	5.00	0.07	1.4	0.1% to 2.0%				
101.0	111th Street	883.81	883.65	S5-105	S5-106	Match Existing Cross Slope	6	5.84	-0.16	-2.7	Match Existing				Special Shaping Area
102.0	111th Street	883.65	883.88	S5-106	S5-107	Ramp Running Slope	6	2.95	0.23	7.8	0.5% to 8.3%	Yes			Special Shaping Area

SIDEWALK COMPLIANCE

See S Sheets

* Does not include curb
1. Staking required by Contracting Authority per Article 2511.03 of the Standard Specifications.
2. Refer to tabulation 113-01 for bid quantities.
3. See Tab 113-10A for point location information.

Line No.	Roadway Identification	Starting Elevation	Ending Elevation	From Point	Ending Point	Sidewalk Designation	Sidewalk Thickness (IN)	Distance* (FT)	Change in Elevation (FT)	Slope (%)	Acceptable Constructed Range	Staking Required? (1)	Measured Slope (%)	Initials	Remarks
103.0	111th Street	883.88	884.49	S5-107	S5-108	Ramp Running Slope	6	8.00	0.61	7.6	0.5% to 8.3%	Yes			
104.0	111th Street	884.49	884.55	S5-108	S5-109	Landing/Turning Space	4	4.00	0.06	1.5	0.1% to 2.0%				
105.0	111th Street	884.55	885.94	S5-109	S5-110	Ramp Running Slope	6	21.64	1.39	6.4	0.5% to 8.3%				
106.0	111th Street	885.94	886.02	S5-110	S5-100	Landing/Turning Space	4	5.00	0.08	1.6	0.1% to 2.0%	Yes			
107.0	111th Street	882.68	882.40	S5-200	S5-201	Ramp Running Slope	6	4.82	-0.28	-5.8	0.5% to 8.3%				
108.0	111th Street	882.40	882.32	S5-201	S5-205	Landing/Turning Space	4	5.00	-0.08	-1.6	0.1% to 2.0%	Yes			
109.0	111th Street	882.40	882.37	S5-201	S5-202	Landing/Turning Space	4	1.70	-0.03	-1.8	0.1% to 2.0%	Yes			
110.0	111th Street	882.37	882.29	S5-202	S5-204	Landing/Turning Space	4	5.00	-0.08	-1.6	0.1% to 2.0%	Yes			
111.0	111th Street	882.37	882.51	S5-202	S5-203	Sidewalk Running Slope	4	2.96	0.14	4.7	0.5% to 5.0%	Yes			Special Shaping Area
112.0	111th Street	882.51	882.29	S5-203	S5-204	Match Existing Cross Slope	4	5.84	-0.22	-3.8	Match Existing				Special Shaping Area
113.0	111th Street	882.29	882.32	S5-204	S5-205	Landing/Turning Space	4	1.70	0.03	1.8	0.1% to 2.0%	Yes			
114.0	111th Street	882.32	882.38	S5-205	S5-206	Landing/Turning Space	4	4.00	0.06	1.5	0.1% to 2.0%				
115.0	111th Street	882.38	882.46	S5-206	S5-207	Landing/Turning Space	4	5.00	0.08	1.6	0.1% to 2.0%	Yes			
116.0	111th Street	882.46	882.82	S5-207	S5-208	Ramp Running Slope	6	4.79	0.36	7.5	0.5% to 8.3%	Yes			
117.0	111th Street	882.82	882.68	S5-208	S5-200	Match Existing Cross Slope	4	3.64	-0.14	-3.8	Match Existing				
118.0	111th Street	882.38	878.40	S5-206	S5-301	Ramp Running Slope	6	49.20	-3.98	-8.1	0.5% to 8.3%	Yes			
119.0	111th Street	882.46	878.48	S5-207	S5-300	Ramp Running Slope	6	49.20	-3.98	-8.1	0.5% to 8.3%				
120.0	111th Street	878.48	878.40	S5-300	S5-301	Landing/Turning Space	4	5.00	-0.08	-1.6	0.1% to 2.0%	Yes			
121.0	111th Street	878.40	878.32	S5-301	S5-302	Landing/Turning Space	4	5.00	-0.08	-1.6	0.1% to 2.0%	Yes			
122.0	111th Street	878.32	878.40	S5-302	S5-304	Landing/Turning Space	4	5.00	0.08	1.6	0.1% to 2.0%	Yes			
123.0	111th Street	878.32	878.28	S5-302	S5-303	Match Existing Cross Slope	4	5.85	-0.04	-0.7	Match Existing				Special Shaping Area
124.0	111th Street	878.28	878.40	S5-303	S5-304	Sidewalk Running Slope	4	2.96	0.12	4.1	0.5% to 5.0%	Yes			Special Shaping Area
125.0	111th Street	878.40	878.48	S5-304	S5-300	Landing/Turning Space	4	5.00	0.08	1.6	0.1% to 2.0%	Yes			
126.0	111th Street	879.24	879.39	S5-400	S5-401	Ramp Cross Slope	6	10.00	0.15	1.5	0.1% to 2.0%				
127.0	111th Street	879.39	878.83	S5-401	S5-402	Ramp Running Slope	6	7.62	-0.56	-7.3	0.5% to 8.3%				
128.0	111th Street	878.83	878.76	S5-402	S5-405	Landing/Turning Space	4	4.01	-0.07	-1.7	0.1% to 2.0%	Yes			
129.0	111th Street	878.83	879.48	S5-402	S5-403	Ramp Running Slope	6	8.29	0.65	7.8	0.5% to 8.3%	Yes			
130.0	111th Street	879.48	879.10	S5-403	S5-404	Match Existing Cross Slope	4	3.70	-0.38	10.3	Match Existing				
131.0	111th Street	879.10	878.76	S5-404	S5-405	Ramp Running Slope	6	8.04	-0.34	-4.2	0.5% to 8.3%				
132.0	111th Street	878.76	878.66	S5-405	S5-406	Landing/Turning Space	4	5.68	-0.10	-1.8	0.1% to 2.0%	Yes			
133.0	111th Street	878.66	878.68	S5-406	S5-407	Landing/Turning Space	4	13.09	0.02	0.2	0.1% to 2.0%				
134.0	111th Street	878.68	879.24	S5-407	S5-400	Ramp Running Slope	6	7.83	0.56	7.2	0.5% to 8.3%				
135.0	111th Street	878.68	878.83	S5-407	S5-402	Landing/Turning Space	4	8.49	0.15	1.8	0.1% to 2.0%	Yes			
136.0	111th Street	876.79	876.57	S6-100	S6-101	Match Existing Cross Slope	4	5.90	-0.22	-3.7	Match Existing				Special Shaping Area
137.0	111th Street	876.57	876.60	S6-101	S6-106	Ramp Cross Slope	6	5.00	0.03	0.6	0.1% to 2.0%				
138.0	111th Street	876.57	876.64	S6-101	S6-102	Ramp Running Slope	6	3.00	0.07	2.3	0.5% to 8.3%				
139.0	111th Street	876.64	876.71	S6-102	S6-105	Landing/Turning Space	4	5.00	0.07	1.4	0.1% to 2.0%				
140.0	111th Street	876.64	876.58	S6-102	S6-103	Landing/Turning Space	4	4.09	-0.06	-1.5	0.1% to 2.0%				
141.0	111th Street	876.58	876.66	S6-103	S6-104	Landing/Turning Space	4	5.00	0.08	1.6	0.1% to 2.0%	Yes			
142.0	111th Street	876.66	876.71	S6-104	S6-105	Landing/Turning Space	4	4.00	0.05	1.3	0.1% to 2.0%				
143.0	111th Street	876.71	876.60	S6-105	S6-106	Ramp Running Slope	6	3.00	-0.11	-3.7	0.5% to 8.3%				
144.0	111th Street	876.60	876.79	S6-106	S6-100	Ramp Running Slope	6	3.06	0.19	6.2	0.5% to 8.3%				Special Shaping Area
145.0	111th Street	876.58	875.18	S6-103	S6-108	Ramp Running Slope	6	20.02	-1.40	-7.0	0.5% to 8.3%				
146.0	111th Street	876.66	875.26	S6-104	S6-107	Ramp Running Slope	6	19.51	-1.40	-7.2	0.5% to 8.3%				
147.0	111th Street	875.26	875.18	S6-107	S6-108	Sidewalk Cross Slope	4	5.00	-0.08	-1.6	0.5% to 2.0%	Yes			
148.0	111th Street	875.18	873.49	S6-108	S6-109	Ramp Running Slope	6	25.97	-1.69	-6.5	0.5% to 8.3%				
149.0	111th Street	873.49	873.57	S6-109	S6-116	Sidewalk Cross Slope	4	5.00	0.08	1.6	0.5% to 2.0%	Yes			
150.0	111th Street	873.49	871.97	S6-109	S6-110	Ramp Running Slope	6	20.97	-1.52	-7.2	0.5% to 8.3%				
151.0	111th Street	871.97	872.05	S6-110	S6-115	Sidewalk Cross Slope	4	5.00	0.08	1.6	0.5% to 2.0%	Yes			
152.0	111th Street	871.97	871.15	S6-110	S6-111	Ramp Running Slope	6	11.21	-0.82	-7.3	0.5% to 8.3%				
153.0	111th Street	871.15	871.23	S6-111	S6-114	Sidewalk Cross Slope	4	5.00	0.08	1.6	0.5% to 2.0%	Yes			

SIDEWALK COMPLIANCE

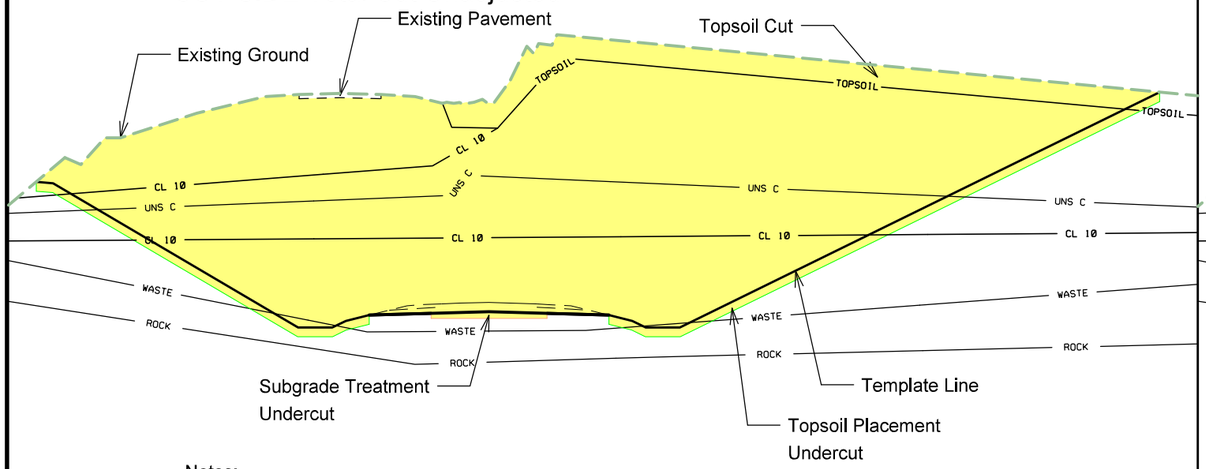
See S Sheets

* Does not include curb
1. Staking required by Contracting Authority per Article 2511.03 of the Standard Specifications.
2. Refer to tabulation 113-01 for bid quantities.
3. See Tab 113-10A for point location information.

Line No.	Roadway Identification	Starting Elevation	Ending Elevation	From Point	Ending Point	Sidewalk Designation	Sidewalk Thickness (IN)	Distance* (FT)	Change in Elevation (FT)	Slope (%)	Acceptable Constructed Range	Staking Required? (1)	Measured Slope (%)	Initials	Remarks
154.0	111th Street	871.15	870.28	S6-111	S6-112	Ramp Running Slope	6	15.47	-0.87	-5.6	0.5% to 8.3%				
155.0	111th Street	870.28	870.12	S6-112	S6-113	Match Existing Cross Slope	4	3.92	-0.16	-4.1	Match Existing				
156.0	111th Street	870.12	871.23	S6-113	S6-114	Ramp Running Slope	6	15.33	1.11	7.2	0.5% to 8.3%				
157.0	111th Street	871.23	872.05	S6-114	S6-115	Ramp Running Slope	6	11.42	0.82	7.2	0.5% to 8.3%				
158.0	111th Street	872.05	873.57	S6-115	S6-116	Ramp Running Slope	6	21.24	1.52	7.2	0.5% to 8.3%				
159.0	111th Street	873.57	875.26	S6-116	S6-107	Ramp Running Slope	6	23.60	1.69	7.2	0.5% to 8.3%				
160.0	111th Street	876.49	876.66	S6-200	S6-202	Ramp Cross Slope	6	10.00	0.17	1.7	0.1% to 2.0%	Yes			
161.0	111th Street	876.49	876.70	S6-200	S6-201	Ramp Cross Slope	6	11.83	0.21	1.8	0.1% to 2.0%	Yes			
162.0	111th Street	876.70	876.66	S6-201	S6-202	Ramp Running Slope	6	6.09	-0.04	-0.7	0.5% to 8.3%				
163.0	111th Street	876.66	876.78	S6-202	S6-203	Ramp Running Slope	6	3.12	0.12	3.8	0.5% to 8.3%				
164.0	111th Street	876.78	876.83	S6-203	S6-206	Landing/Turning Space	4	4.14	0.05	1.2	0.1% to 2.0%				
165.0	111th Street	876.78	877.73	S6-203	S6-204	Ramp Running Slope	6	12.81	0.95	7.4	0.5% to 8.3%	Yes			
166.0	111th Street	877.73	877.63	S6-204	S6-205	Match Existing Cross Slope	4	3.90	-0.10	-2.6	Match Existing				
167.0	111th Street	877.63	876.83	S6-205	S6-206	Ramp Running Slope	6	13.32	-0.80	-6.0	0.5% to 8.3%				
168.0	111th Street	876.83	876.67	S6-206	S6-211	Landing/Turning Space	4	10.00	-0.16	-1.6	0.1% to 2.0%	Yes			
169.0	111th Street	876.83	876.96	S6-206	S6-207	Sidewalk Running Slope	4	9.11	0.13	1.4	0.5% to 5.0%				
170.0	111th Street	876.96	876.80	S6-207	S6-210	Sidewalk Cross Slope	4	10.00	-0.16	-1.6	0.5% to 2.0%	Yes			
171.0	111th Street	876.96	876.78	S6-207	S6-208	Sidewalk Running Slope	4	10.17	-0.18	-1.8	0.5% to 5.0%				
172.0	111th Street	876.78	876.62	S6-208	S6-209	Sidewalk Cross Slope	4	10.00	-0.16	-1.6	0.5% to 2.0%	Yes			
173.0	111th Street	876.62	876.80	S6-209	S6-210	Sidewalk Running Slope	4	9.83	0.18	1.8	0.5% to 5.0%				
174.0	111th Street	876.80	876.67	S6-210	S6-211	Sidewalk Running Slope	4	8.81	-0.13	-1.5	0.5% to 5.0%				
175.0	111th Street	876.67	876.60	S6-211	S6-212	Landing/Turning Space	4	4.00	-0.07	-1.7	0.1% to 2.0%	Yes			
176.0	111th Street	876.60	876.49	S6-212	S6-200	Sidewalk Running Slope	4	3.02	-0.11	-3.6	0.5% to 5.0%				
177.0	111th Street	876.78	873.35	S6-208	S6-214	Ramp Running Slope	6	51.99	-3.43	-6.6	0.5% to 8.3%				
178.0	111th Street	876.62	873.20	S6-209	S6-213	Ramp Running Slope	6	51.50	-3.42	-6.6	0.5% to 8.3%				
179.0	111th Street	873.20	873.35	S6-213	S6-214	Ramp Cross Slope	6	10.00	0.15	1.5	0.1% to 2.0%				
180.0	111th Street	873.35	868.53	S6-214	S6-215	Ramp Running Slope	6	65.89	-4.82	-7.3	0.5% to 8.3%				
181.0	111th Street	868.53	868.38	S6-215	S6-228	Ramp Cross Slope	6	10.00	-0.15	-1.5	0.1% to 2.0%				
182.0	111th Street	868.53	867.70	S6-215	S6-216	Ramp Running Slope	6	10.42	-0.83	-8.0	0.5% to 8.3%	Yes			
183.0	111th Street	867.70	867.70	S6-216	S6-227	Ramp Cross Slope	6	10.00			0.1% to 2.0%				Part of Cross Slope Transition
184.0	111th Street	867.70	867.36	S6-216	S6-217	Ramp Running Slope	6	5.11	-0.34	-6.7	0.5% to 8.3%				
185.0	111th Street	867.36	867.46	S6-217	S6-226	Landing/Turning Space	4	10.00	0.10	1.0	0.1% to 2.0%				
186.0	111th Street	867.36	867.35	S6-217	S6-218	Landing/Turning Space	4	1.83	-0.01	-0.5	0.1% to 2.0%				
187.0	111th Street	867.35	867.29	S6-218	S6-221	Landing/Turning Space	4	4.02	-0.06	-1.5	0.1% to 2.0%				
188.0	111th Street	867.35	866.96	S6-218	S6-219	Sidewalk Running Slope	4	10.16	-0.39	-3.8	0.5% to 5.0%				
189.0	111th Street	866.96	867.12	S6-219	S6-220	Match Existing Cross Slope	4	4.05	0.16	4.0	Match Existing				
190.0	111th Street	867.12	867.29	S6-220	S6-221	Sidewalk Running Slope	4	9.94	0.17	1.7	0.5% to 5.0%				
191.0	111th Street	867.29	867.39	S6-221	S6-225	Landing/Turning Space	4	10.00	0.10	1.0	0.1% to 2.0%				
192.0	111th Street	867.29	866.98	S6-221	S6-222	Ramp Running Slope	6	4.46	-0.31	-7.0	0.5% to 8.3%				
193.0	111th Street	866.98	867.16	S6-222	S6-224	Ramp Cross Slope	6	10.00	0.18	1.8	0.1% to 2.0%	Yes			
194.0	111th Street	866.98	866.59	S6-222	S6-223	Ramp Running Slope	6	4.50	-0.39	-8.7	0.5% to 9.7%				Special Shaping Area
195.0	111th Street	866.59	867.16	S6-223	S6-224	Match Existing Cross Slope	4	10.99	0.57	5.2	Match Existing				Special Shaping Area
196.0	111th Street	867.16	867.39	S6-224	S6-225	Ramp Running Slope	6	4.53	0.23	5.1	0.5% to 8.3%				
197.0	111th Street	867.39	867.46	S6-225	S6-226	Landing/Turning Space	4	5.83	0.07	1.2	0.1% to 2.0%				
198.0	111th Street	867.46	867.70	S6-226	S6-227	Ramp Running Slope	6	4.89	0.24	4.9	0.5% to 8.3%				
199.0	111th Street	867.70	868.38	S6-227	S6-228	Ramp Running Slope	6	9.58	0.68	7.1	0.5% to 8.3%				
200.0	111th Street	868.38	873.20	S6-228	S6-213	Ramp Running Slope	6	60.62	4.82	8.0	0.5% to 8.3%	Yes			

CUT SIDE Total Cut Unadjusted

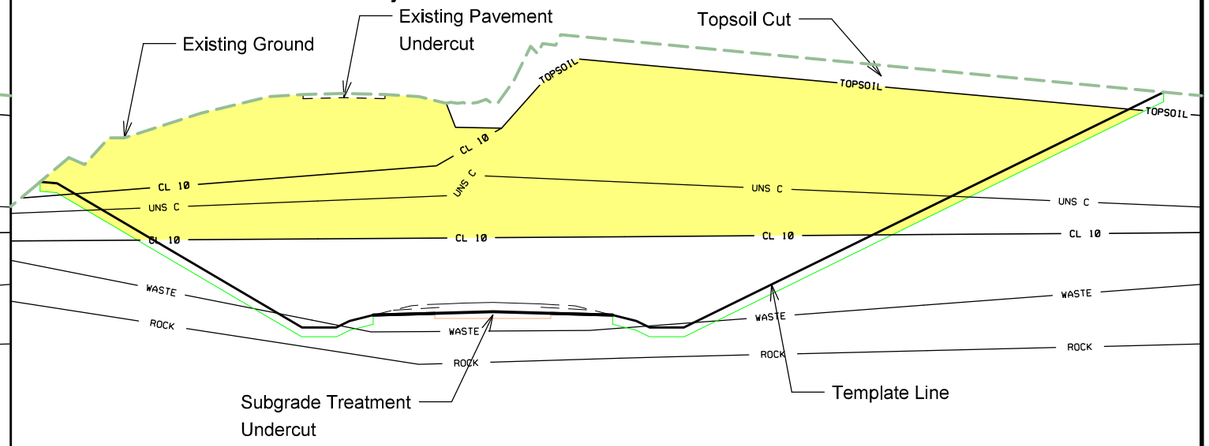
RURAL



Notes:

1. "Total Cut Unadjusted" Column includes all cut values in the Station Range based on Typical, Topsoil and Subgrade Treatment needs.
2. "Total Cut Unadjusted" does not include and Existing Pavement values inside or outside the cut template as shown on cross sections.
3. Tabulated Plowing and Shaping operations are included in the "Total Cut Unadjusted" values.

CUT SIDE Total Cut Adjusted

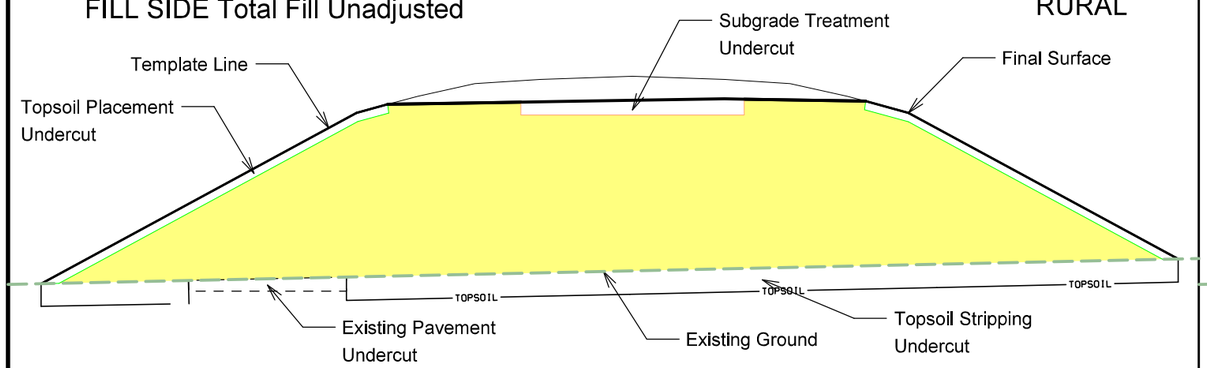


Notes:

1. "Total Cut Adjusted" Column includes all cut values usable as Class 10 material.
2. "Total Cut Adjusted" does not include and Existing Pavement , Existing Topsoil, or material to be wasted.

FILL SIDE Total Fill Unadjusted

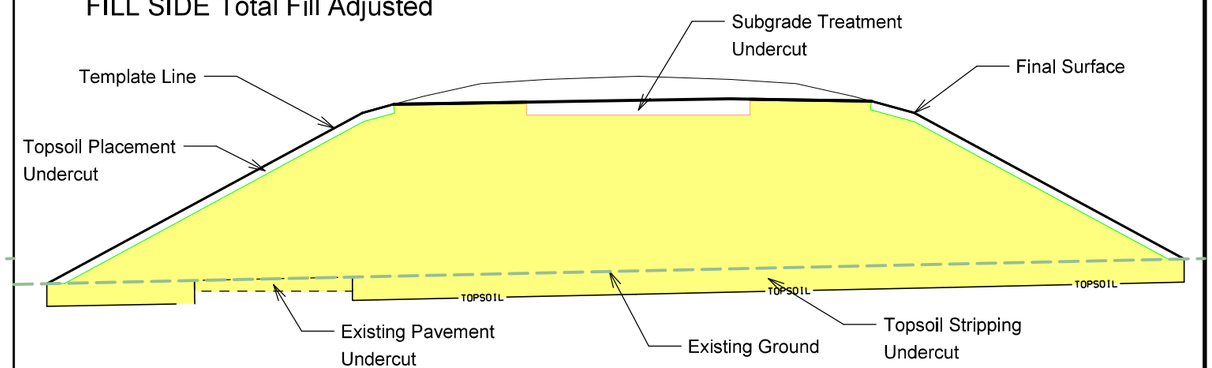
RURAL



Notes:

1. "Total Fill Unadjusted" Column includes all Class 10, 12, and 13 fill. This excludes the topsoil, subgrade treatment, subbase, new pavement, and shoulder fill needs in that station range.
2. "Total Fill Unadjusted" Column does not include adjustments for additional fill from cuts such as existing pavement removed, plowing and shaping operations, entrances, dikes, or topsoil stripping.

FILL SIDE Total Fill Adjusted

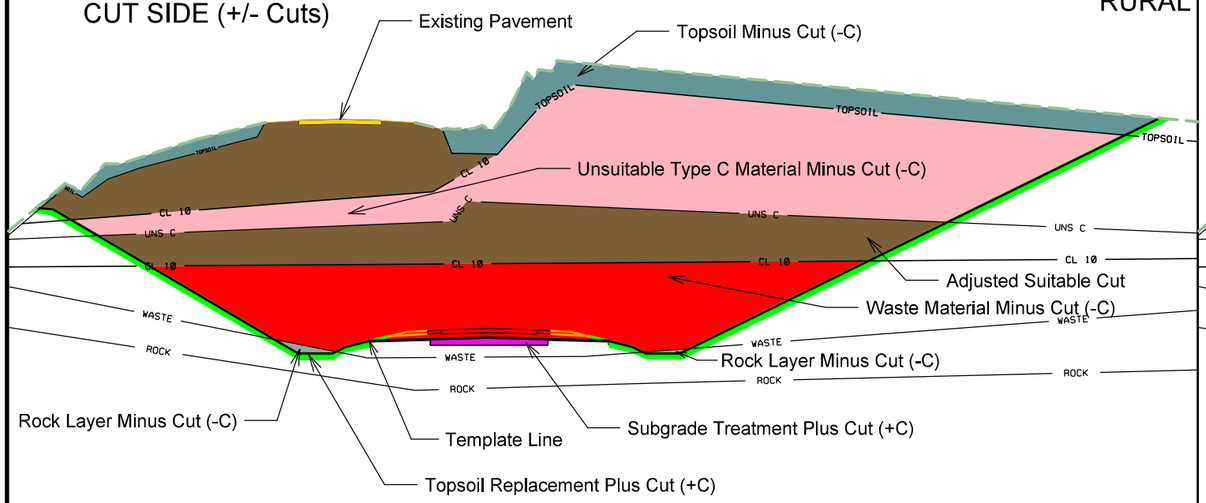


Notes:

1. "Total Fill Adjusted" Column includes all Class 10, 12, and 13 fill and adjustments for additional fill from cuts such as existing pavement, plowing and shaping operations, entrances, dikes, and topsoil stripping.
2. The available area to place unsuitable materials in the T Sheet tabulation does not include the undercut values from the topsoil stripping, existing pavement, or plowing and shaping

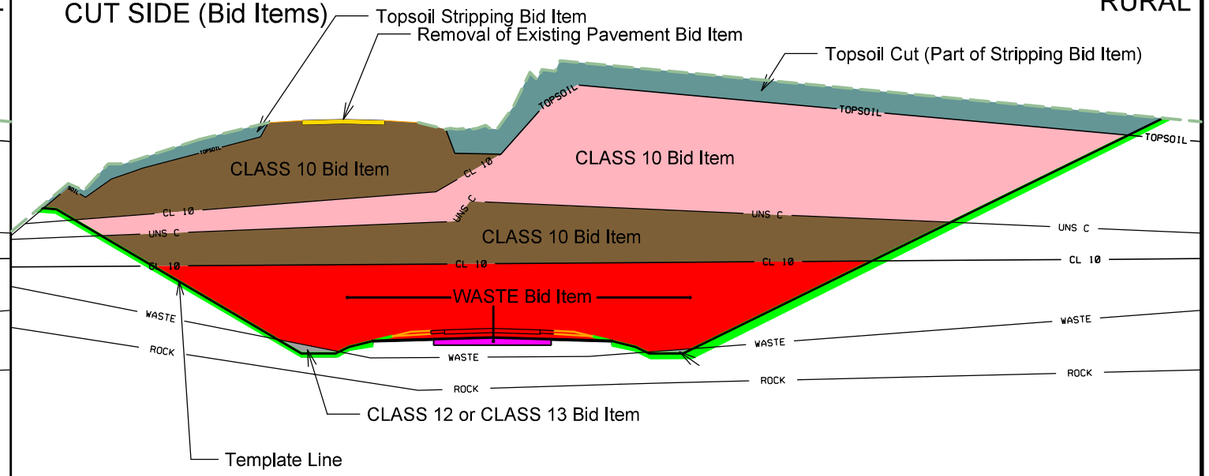
CUT SIDE (+/- Cuts)

RURAL



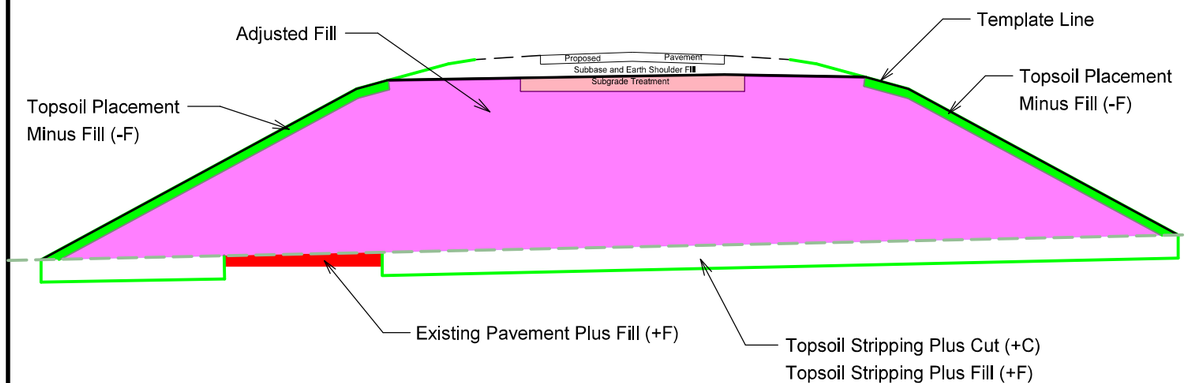
CUT SIDE (Bid Items)

RURAL



FILL SIDE (+/- Fills)

RURAL

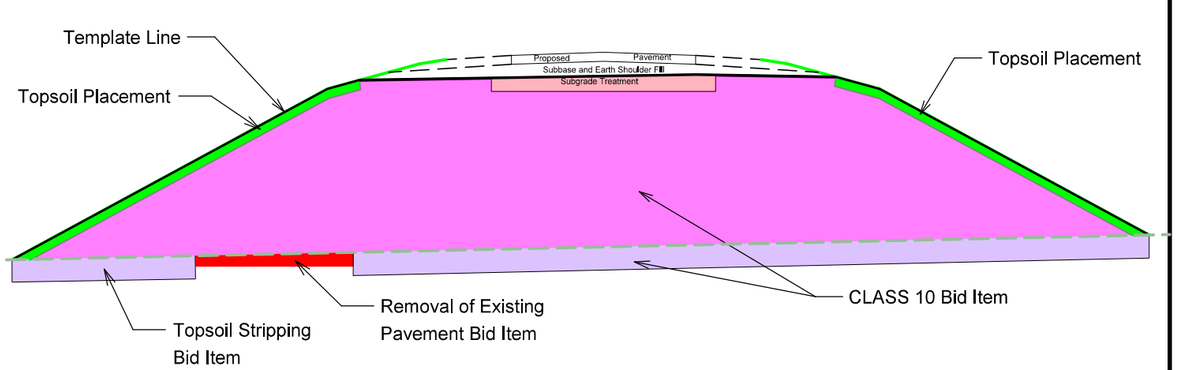


Notes:

1. "Add Quantity +C" columns are additional cut encountered that is not Typical, Topsoil, or Subgrade Treatment Based. (Entrance, Dike, Etc.)
2. "-C" columns are either soil types or Class 10, 12, or 13 designated material that is encountered in the cut station range that is paid for by other bid items.
3. The "(SoilType) Cut" columns are soil types encountered in the cut that are paid by either Class 10, 12 or 13.
4. The "Adjusted Clas (10,12 or 13)" columns are the sum of all various soil types encountered in that station range, that are paid by Class 10, 12, or 13 bid items.
5. Refer to Standard Road Plan EW-102 for placement of unsuitable soil types.

FILL SIDE (Bid Items)

RURAL



Notes:

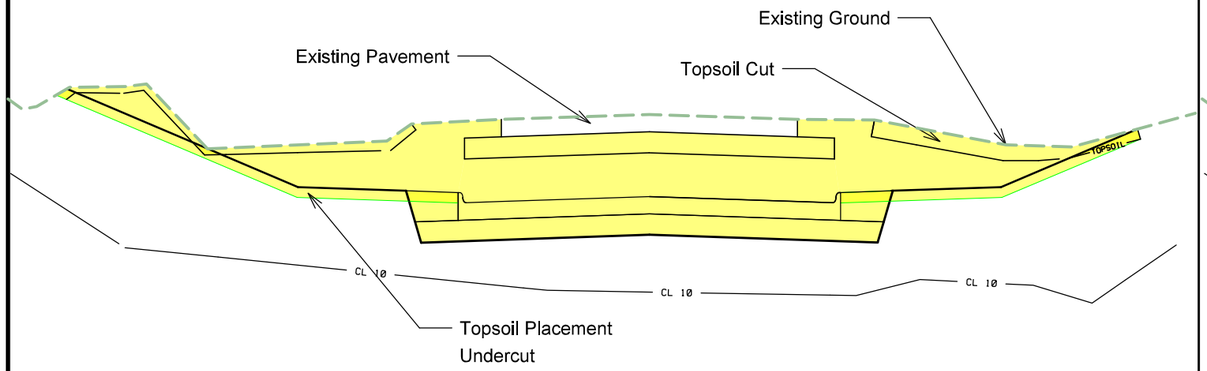
1. Refer to Standard Road Plan EW-102 for placement of unsuitable soil types.

FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER T.1B

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V2

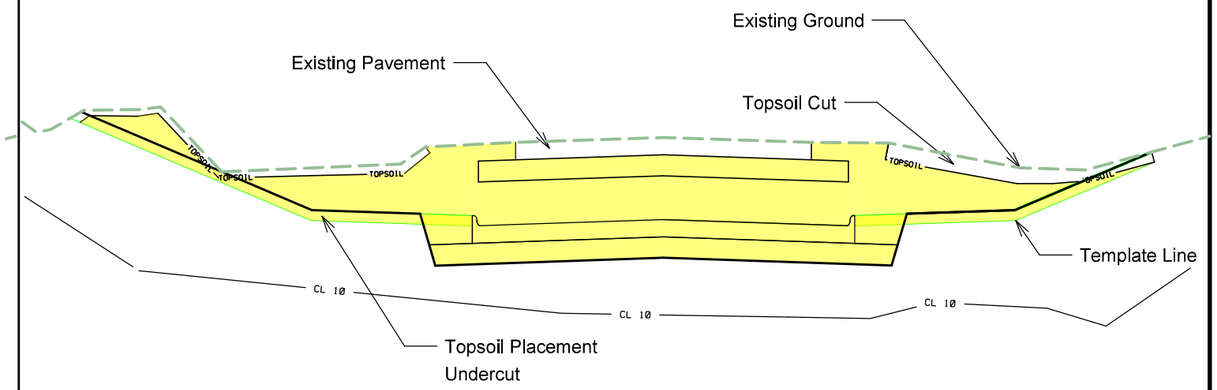
CUT SIDE Total Cut Unadjusted — URBAN



Notes:

1. "Total Cut Unadjusted" Column includes all cut values in the Station Range based on Typical, Topsoil and Subgrade Treatment needs.
2. "Total Cut Unadjusted" does not include and Existing Pavement values inside or outside the cut template as shown on cross sections.
3. Tabulated Plowing and Shaping operations are included in the "Total Cut Unadjusted" values.

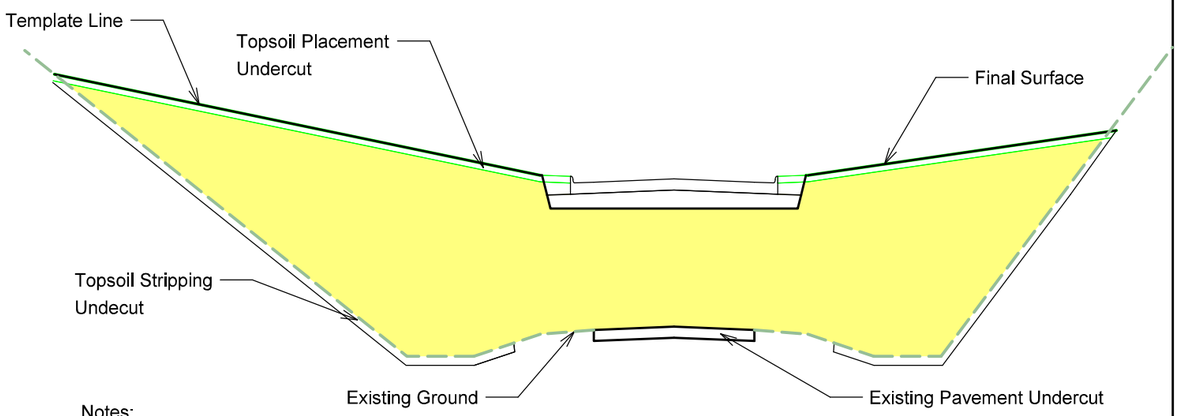
CUT SIDE Total Cut Adjusted — URBAN



Notes:

1. "Total Cut Adjusted" Column includes all cut values usable as Class 10 material.
2. "Total Cut Adjusted" does not include and Existing Pavement , Existing Topsoil, or material to be wasted.

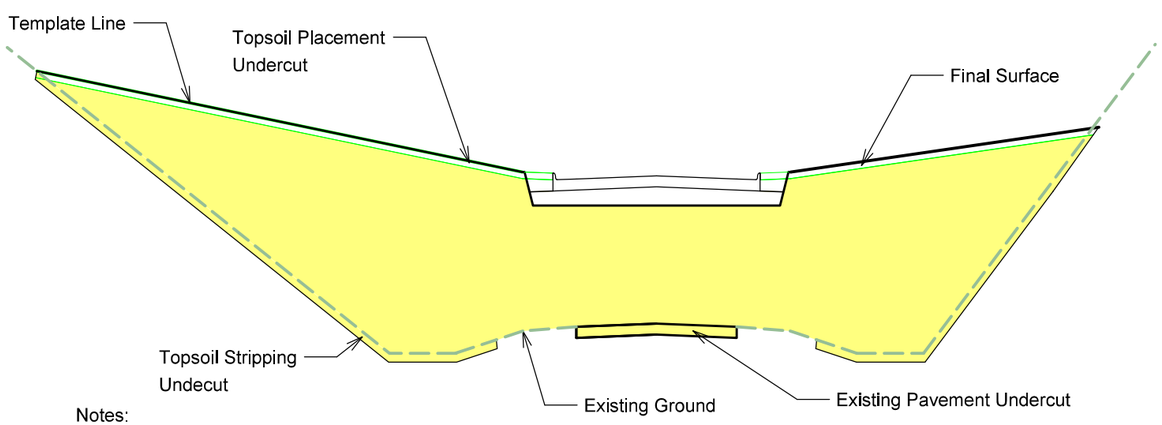
FILL SIDE Total Fill Unadjusted — URBAN



Notes:

1. "Total Fill Unadjusted" Column includes all Class 10, 12, and 13 fill. This excludes the topsoil, subgrade treatment, subbase, new pavement, and shoulder fill needs in that station range.
2. "Total Fill Unadjusted" Column does not include adjustments for additional fill from cuts such as existing pavement removed, plowing and shaping operations, entrances, dikes, or topsoil stripping.

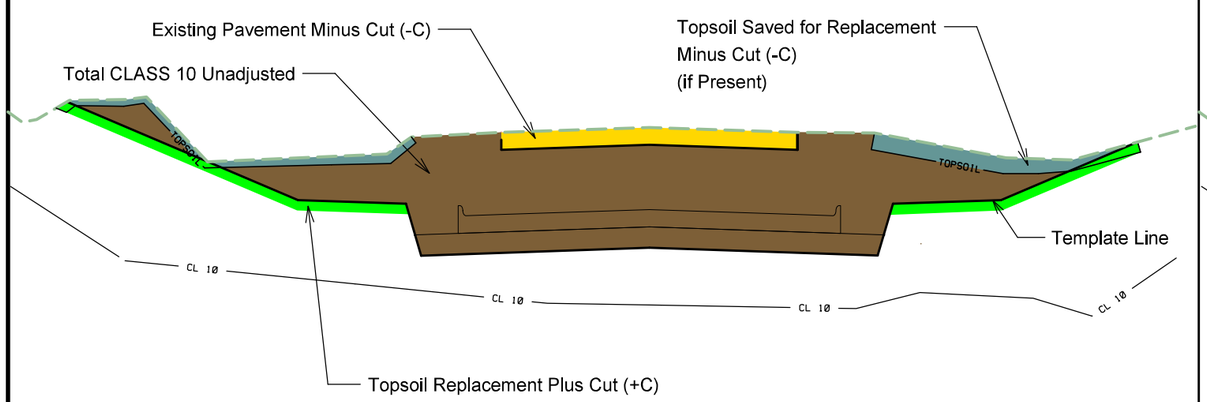
FILL SIDE Total Fill Adjusted — URBAN



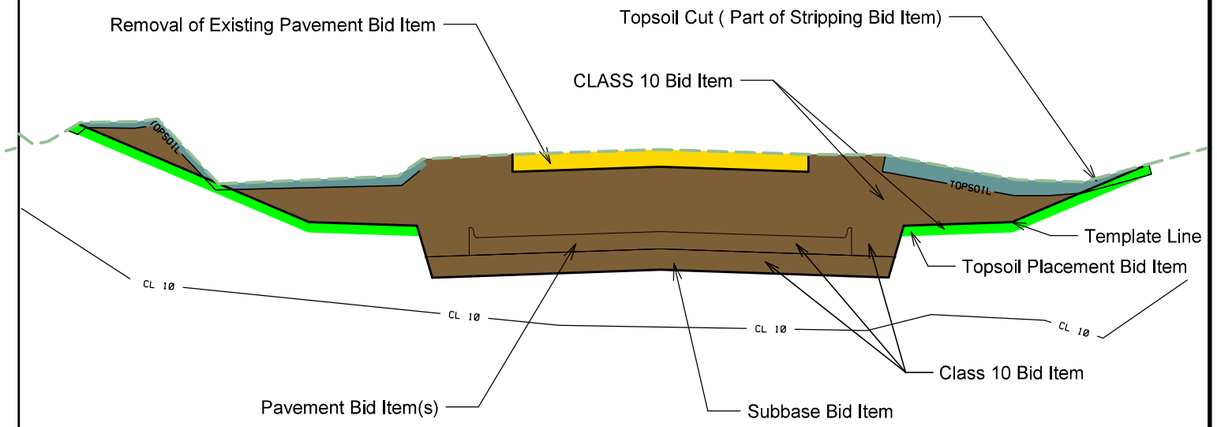
Notes:

1. "Total Fill Adjusted" Column includes all Class 10, 12, and 13 fill and adjustments for additional fill from cuts such as existing pavement, plowing and shaping operations, entrances, dikes, and topsoil stripping.
2. The available area to place unsuitable materials in the T Sheet tabulation does not include the undercut values from the topsoil stripping, existing pavement, or plowing and shaping

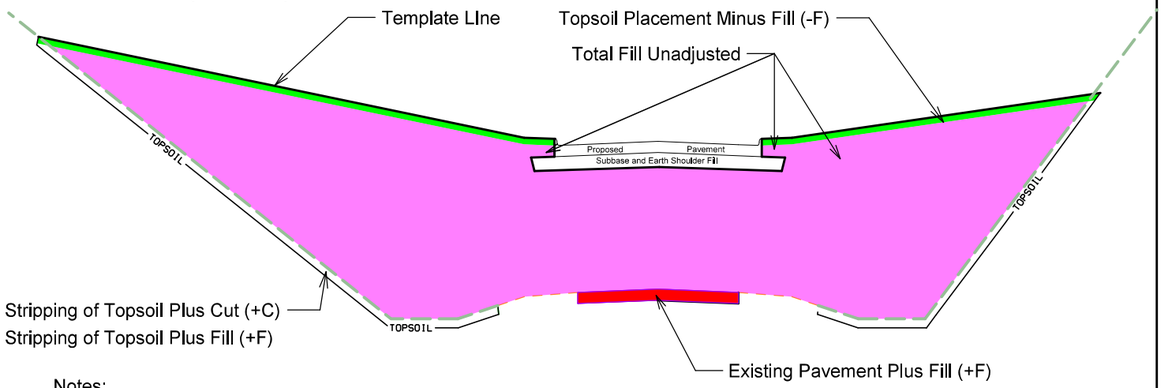
CUT SIDE (+/- Cuts) — URBAN



CUT SIDE (Bid Items) — URBAN



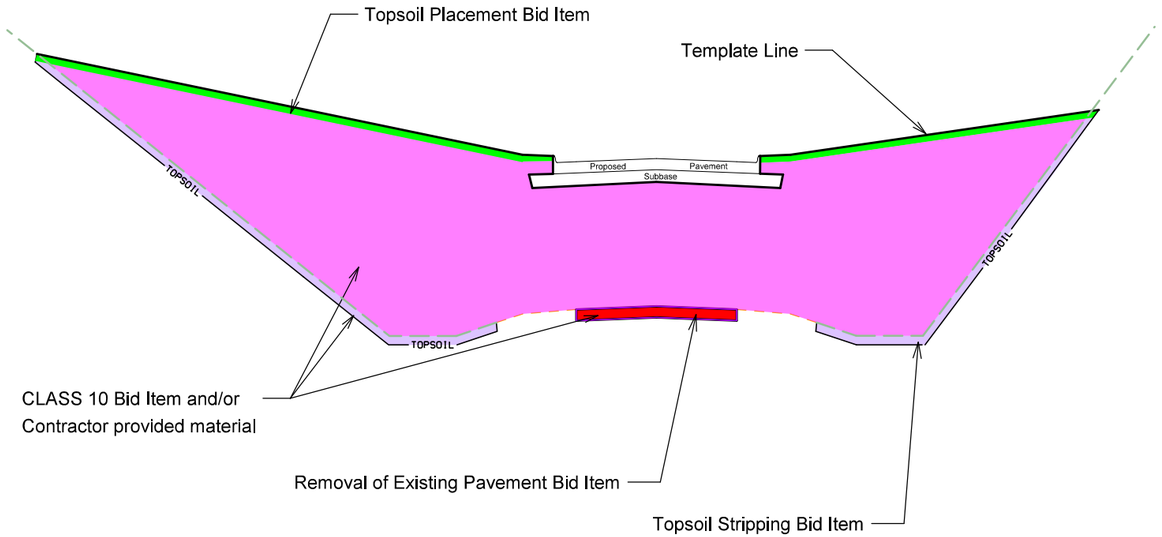
FILL SIDE (+/- Fills) — URBAN



Notes:

1. "Manually Calculated Cut Adjustments +C" columns are additional cut encountered that is not Typical, Topsoil, or Subgrade Treatment Based. (Entrance, Dike, Etc.)
2. "-C" columns are either soil types or Class 10, 12, or 13 designated material that is encountered in the cut station range that is paid for by other bid items.
3. The "(SoilType) Cut" columns are soil types encountered in the cut that are paid by either Class 10, 12 or 13.
4. The "Adjusted Clas (10,12 or 13)" columns are the sum of all various soil types encountered in that station range, that are paid by Class 10, 12, or 13 bid items.

FILL SIDE (Bid Items) — URBAN



Refer to Standard Road Plans EW-101 and EW-102.

TABULATION OF TEMPLATE QUANTITIES AND ADJUSTMENTS

107-28
04-21-15

Station	Cut				Fill				Checks (EW-102)		Topsoil											
	[1]	[2]	[3]	[4]	[5]	[6]	[7]	[8]	[9]	[10]	[11]	[12]	[13]	[14]	[15]	[16]	[17]	[18]	[19]	[20]	[21]	[22]
	Total Cut Unadjusted Volume	Total Class 10 Unadjusted Volume	Topsoil Cut Volume	Total Cut Adjusted	Total Fill Unadjusted Volume	Total Fill Adjusted	Total Fill Adjusted w/ Weighted Average 1.3 Shrink Factor	Total Cut Adjusted Minus Fill w/ Shrink	Approx. Fill Vol. Below 5' & Above 20' w/ Shrink	Approx. Fill Volume Below 3' w/ Shrink	Topsoil Stripping Undercut Volume	Topsoil Placement Undercut Volume	Topsoil Placement With 1.4 Shrink Factor	Topsoil Stripping Minus Topsoil Placement w/Shrink								
STG1SR006																						
684+00.00																						
684+50.00	40	27	13	27	0	0	0	27	0	0	13	0	0	13								
685+00.00	36	23	13	23	0	0	0	23	0	0	13	0	0	13								
685+50.00	32	19	13	19	0	0	1	18	0	0	13	0	0	13								
686+00.00	31	18	13	18	0	0	1	18	0	0	13	0	0	13								
686+50.00	36	23	13	23	0	0	0	23	0	0	13	0	0	13								
687+00.00	39	26	14	26	0	0	0	26	0	0	14	0	0	14								
687+50.00	37	23	14	23	0	0	0	23	0	0	14	0	0	14								
688+00.00	37	23	14	23	0	0	0	23	0	0	14	0	0	14								
688+19.25	14	9	5	9	0	0	0	9	0	0	5	0	0	5								
688+50.00	19	12	7	12	0	0	0	12	0	0	7	0	0	7								
689+00.00	21	13	8	13	0	0	0	13	0	0	8	0	0	8								
689+29.65	7	4	2	4	0	0	0	4	0	0	2	0	0	3								
689+40.35	1	1	0	1	0	0	0	1	0	0	0	0	0	1								
689+50.00	1	0	0	0	0	0	0	0	0	0	0	0	0	0								
690+00.00	6	6	0	6	0	0	0	6	0	0	0	0	0	0								
690+50.00	8	8	0	8	0	0	0	8	0	0	0	0	0	0								
690+96.09	4	4	0	4	0	0	0	4	0	0	0	0	0	0								
691+75.00	0	0	0	0	0	0	0	1	0	0	0	0	0	0								
692+00.00	2	2	0	2	0	0	0	2	0	0	0	0	0	0								
692+50.00	5	5	0	5	0	0	0	5	0	0	0	0	0	0								
693+00.00	3	3	0	3	0	0	0	4	0	0	0	0	0	0								
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695+00.00	8	4	4	4	0	0	0	4	0	0	4	0	0	4								
695+50.00	10	5	5	5	0	0	0	5	0	0	5	0	0	5								
696+00.00	15	5	9	5	0	0	0	5	0	0	9	0	0	10								
696+50.00	17	3	13	3	3	3	4	0	0	0	13	0	0	13								
697+00.00	16	1	15	1	8	8	11	-9	0	0	15	0	0	15								
697+50.00	18	2	17	2	11	11	14	-12	0	0	17	0	0	17								
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698+50.00	69	49	21	49	0	0	0	49	0	0	21	0	0	21								
699+00.00	72	49	23	49	0	0	0	49	0	0	23	0	0	23								
699+50.00	79	53	26	53	0	0	0	53	0	0	26	0	0	26								
700+00.00	93	65	29	65	0	0	0	65	0	0	29	0	0	29								
700+50.00	106	75	31	75	0	0	0	75	0	0	31	0	0	31								
701+00.00	111	78	33	78	0	0	0	78	0	0	33	0	0	33								
701+41.60	72	50	23	50	0	0	0	50	0	0	23	0	0	23								
701+50.00	10	7	3	7	0	0	0	7	0	0	3	0	0	3								
702+00.00	48	34	13	34	0	0	0	35	0	0	13	0	0	14								
702+13.34	9	7	2	7	0	0	0	7	0	0	2	0	0	2								
STG1SR006																						
Totals:	1,191	774	418	774	29	29	39	737	0	0	418	0	0	420								

#

FILE NO. | DESIGN TEAM Snyder & Associates, Inc. | POLK COUNTY | PROJECT NUMBER IM-080-3(274)125--13-77 | SHEET NUMBER T.2

9/30/2024 11:05:58 AM mbenne2 c:\pw_work\pwmain\mbenne2\d2053917\Working_D8_(456)_T01.xlsm

V2

Refer to Standard Road Plans EW-101 and EW-102.

TABULATION OF TEMPLATE QUANTITIES AND ADJUSTMENTS

Station	Cut				Fill				Checks (EW-102)		Topsoil									
	[1]	[2]	[3]	[4]	[5]	[6]	[7]	[8]	[9]	[10]	[11]	[12]	[13]	[14]	[15]	[16]	[17]	[18]	[19]	[20]	[21]	[22]
	Total Cut Unadjusted Volume	Total Class 10 Unadjusted Volume	Topsoil Cut Volume	Total Cut Adjusted	Total Fill Unadjusted Volume	Total Fill Adjusted	Total Fill Adjusted w/ Weighted Average 1.3 Shrink Factor	Total Cut Adjusted Minus Fill w/ Shrink	Approx. Fill Vol. Below 5' & Above 20' w/ Shrink	Approx. Fill Volume Below 3' w/ Shrink	Topsoil Stripping Undercut Volume	Topsoil Placement Undercut Volume	Topsoil Placement With 1.4 Shrink Factor	Topsoil Stripping Minus Topsoil Placement w/Shrink								
STG2SR006																						
657+18.26																						
657+50.00	43	43	0	43	0	0	0	43	0	0	0	0	0	0								
658+00.00	69	69	0	69	0	0	0	69	0	0	0	0	0	0								
658+50.00	68	68	0	68	0	0	0	68	0	0	0	0	0	0								
659+00.00	57	57	0	57	0	0	0	57	0	0	0	0	0	0								
659+50.00	45	45	0	45	0	0	0	45	0	0	0	0	0	0								
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660+50.00	44	44	0	44	0	0	0	44	0	0	0	0	0	0								
661+00.00	43	43	0	43	0	0	0	43	0	0	0	0	0	0								
661+50.00	43	43	0	43	0	0	0	43	0	0	0	0	0	0								
662+00.00	42	42	0	42	0	0	0	42	0	0	0	0	0	0								
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663+71.00	75	75	0	75	0	0	0	75	0	0	0	0	0	0								
664+00.00	12	12	0	12	0	0	0	12	0	0	0	0	0	0								
664+50.00	40	40	0	40	0	0	0	40	0	0	0	2	3	-3								
665+00.00	54	54	0	54	0	0	0	54	0	0	0	4	5	-5								
665+50.00	52	52	0	52	0	0	0	52	0	0	0	4	5	-5								
666+00.00	52	52	0	52	0	0	0	52	0	0	0	4	5	-5								
666+50.00	122	122	0	122	0	0	0	122	0	0	0	4	5	-5								
666+84.00	133	133	0	133	6	6	8	125	0	0	0	6	9	-9								
667+00.00	65	65	0	65	6	6	7	58	0	0	0	5	7	-7								
667+26.00	110	110	0	110	10	10	13	98	0	0	0	8	12	-12								
667+50.00	112	112	0	112	9	9	12	101	0	0	0	8	12	-12								
667+65.06	86	86	0	86	7	7	9	78	0	0	0	7	10	-10								
667+88.20	153	153	0	153	11	11	14	139	0	0	0	13	18	-18								
667+99.00	82	82	0	82	5	5	7	75	0	0	0	7	10	-10								
668+00.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0								
668+26.17	236	236	0	236	14	14	18	218	0	0	0	19	26	-26								
668+36.00	95	95	0	95	5	5	6	89	0	0	0	7	10	-10								
668+38.50	25	25	0	25	1	1	2	23	0	0	0	2	3	-3								
668+41.00	25	25	0	25	1	1	2	24	0	0	0	2	3	-3								
668+42.00	10	10	0	10	0	0	1	9	0	0	0	1	1	-1								
668+42.83	8	8	0	8	0	0	1	8	0	0	0	1	1	-1								
668+50.00	74	74	0	74	4	4	5	69	0	0	0	5	7	-7								
668+57.17	76	76	0	76	4	4	5	72	0	0	0	5	7	-7								
668+58.00	9	9	0	9	0	0	1	9	0	0	0	1	1	-1								
668+59.00	11	11	0	11	0	0	1	10	0	0	0	1	1	-1								
668+61.00	22	22	0	22	1	1	1	21	0	0	0	1	2	-2								
668+64.00	33	33	0	33	1	1	2	31	0	0	0	2	3	-3								
668+72.48	96	96	0	96	4	4	5	91	0	0	0	6	9	-9								
668+98.28	319	318	1	318	10	10	13	305	0	0	1	15	21	-19								
669+00.00	23	23	0	23	0	0	1	22	0	0	0	1	1	-1								
669+08.28	106	106	1	106	2	2	3	103	0	0	1	5	7	-7								
669+22.71	176	174	1	174	3	3	4	170	0	0	1	11	16	-15								
669+35.74	151	150	1	150	7	7	9	141	0	0	1	10	14	-13								
669+40.78	57	57	0	57	5	5	7	50	0	0	0	4	6	-5								
669+45.79	57	56	0	56	5	5	7	49	0	0	0	4	6	-6								
669+50.00	48	48	0	48	3	3	4	44	0	0	0	4	5	-5								
669+58.00	96	95	1	95	2	2	3	92	0	0	1	7	10	-9								
669+63.43	67	67	0	67	1	1	1	66	0	0	0	5	7	-7								
669+68.00	57	57	0	57	1	1	1	56	0	0	0	5	7	-6								
669+77.19	103	102	1	102	1	1	2	100	0	0	1	9	12	-12								
669+83.99	65	65	1	65	4	4	5	59	0	0	1	6	9	-8								
669+89.04	48	47	0	47	7	7	9	39	0	0	0	5	7	-7								
669+93.99	47	46	0	46	7	7	9	38	0	0	0	5	7	-7								
670+00.00	58	58	1	58	4	4	6	52	0	0	1	6	9	-8								
670+07.88	79	79	1	79	1	1	1	78	0	0	1	9	12	-12								
670+15.00	72	71	1	71	0	0	0	71	0	0	1	8	12	-11								
670+21.16	60	60	1	60	0	0	0	60	0	0	1	7	10	-10								
670+32.01	104	103	1	103	7	7	9	93	0	0	1	13	18	-17								
670+37.06	48	47	0	47	7	7	9	38	0	0	0	6	9	-8								
670+42.01	48	47	0	47	7	7	9	38	0	0	0	6	9	-8								
670+50.00	83	82	1	82	5	5	7	75	0	0	1	10	14	-14								
670+57.19	85	85	1	85	0	0	0	85	0	0	1	9	13	-12								
670+63.00	73	73	1	73	0	0	0	73	0	0	1	8	11	-10								
670+70.00	84	83	1	83	0	0	0	83	0	0	1	9	13	-12								
670+80.03	112	111	1	111	3	3	4	107	0	0	1	13	19	-18								
670+85.08	54	54	0	54	4	4	5	49	0	0	0	7	9	-9								
Subtotals:	4,784	4,766	18	4,766	187	187	245	4,524	0	0	18	330	464	-447								

Refer to Standard Road Plans EW-101 and EW-102.

TABULATION OF TEMPLATE QUANTITIES AND ADJUSTMENTS

107-28
04-21-15

Station	Cut				Fill				Checks (EW-102)		Topsoil										
	[1]	[2]	[3]	[4]	[5]	[6]	[7]	[8]	[9]	[10]	[11]	[12]	[13]	[14]	[15]	[16]	[17]	[18]	[19]	[20]	[21]	[22]
	Total Cut Unadjusted Volume	Total Class 10 Unadjusted Volume	Topsoil Cut Volume	Total Cut Adjusted	Total Fill Unadjusted Volume	Total Fill Adjusted	Total Fill Adjusted w/ Weighted Average 1.3 Shrink Factor	Total Cut Adjusted Minus Fill w/ Shrink	Approx. Fill Vol. Below 5' & Above 20' w/ Shrink	Approx. Fill Volume Below 3' w/ Shrink	Topsoil Stripping Undercut Volume	Topsoil Placement Undercut Volume	Topsoil Placement With 1.4 Shrink Factor	Topsoil Stripping Minus Topsoil Placement w/Shrink								
670+85.08	54	54	0	54	4	4	6	48	0	0	0	7	9	-9								
670+90.03	118	117	1	117	4	4	5	112	0	0	1	13	18	-17								
671+00.00	93	93	1	93	0	0	0	93	0	0	1	9	13	-12								
671+07.00	85	85	1	85	0	0	0	85	0	0	1	8	11	-10								
671+12.88	105	104	1	104	0	0	0	104	0	0	1	9	13	-12								
671+20.00	113	112	1	112	0	0	0	112	0	0	1	10	14	-13								
671+28.05	68	67	0	67	0	0	0	68	0	0	0	6	9	-8								
671+33.10	66	66	0	66	0	0	0	66	0	0	0	6	8	-8								
671+38.05	177	175	1	175	0	0	0	176	0	0	1	14	19	-18								
671+50.00	122	121	1	121	0	0	0	121	0	0	1	7	10	-10								
671+57.09	17	17	0	17	0	0	0	17	0	0	0	1	1	-1								
671+58.04	181	180	1	180	0	0	0	181	0	0	1	11	16	-15								
671+68.00	516	513	2	513	0	0	0	513	0	0	2	23	32	-29								
671+95.00	103	103	0	103	0	0	0	103	0	0	0	2	2	-2								
672+00.00	111	111	0	111	0	0	0	111	0	0	0	0	0	0								
672+05.00	605	602	2	602	0	0	0	602	0	0	2	6	8	-6								
672+31.17	459	458	1	458	0	0	0	459	0	0	1	5	7	-7								
672+50.00	260	260	0	260	0	0	0	260	0	0	0	4	5	-5								
672+60.21	153	153	0	153	0	0	0	153	0	0	0	3	5	-5								
672+66.13	803	803	0	803	0	0	0	804	0	0	0	35	50	-50								
672+95.30	138	138	0	138	0	0	0	138	0	0	0	8	12	-12								
673+00.00	1,222	1,222	0	1,222	3	3	4	1,218	0	0	0	78	109	-109								
673+36.23	512	512	0	512	3	3	4	508	0	0	0	40	57	-57								
673+50.00	968	968	0	968	194	194	252	716	0	0	0	119	166	-166								
673+79.79	530	530	0	530	315	315	409	121	0	0	0	86	121	-121								
674+00.00	144	144	0	144	110	110	143	1	0	0	0	22	31	-31								
674+06.07	464	464	0	464	311	311	405	60	0	0	0	59	83	-83								
674+27.20	115	115	0	115	60	60	79	36	0	0	0	11	16	-16								
674+32.72	352	352	0	352	152	152	197	155	0	0	0	25	35	-35								
674+50.00	499	499	0	499	139	139	181	318	0	0	0	19	26	-26								
674+75.72	182	182	0	182	35	35	45	137	0	0	0	6	9	-9								
674+85.72	243	243	0	243	72	72	93	150	0	0	0	13	19	-19								
675+00.00	142	142	0	142	71	71	93	50	0	0	0	7	10	-10								
675+08.72	153	153	0	153	78	78	102	52	0	0	0	10	14	-14								
675+18.72	433	433	0	433	91	91	118	315	0	0	0	44	62	-62								
675+50.00	207	207	0	207	0	0	0	207	0	0	0	13	19	-19								
675+64.80	144	144	0	144	0	0	0	144	0	0	0	3	4	-4								
675+74.80	340	340	0	340	0	0	0	339	0	0	0	2	3	-3								
676+00.00	584	584	0	584	0	0	0	584	0	0	0	0	0	0								
676+50.00	470	470	0	470	0	0	0	470	0	0	0	0	0	0								
677+00.00	366	366	0	366	7	7	10	356	0	0	0	0	0	0								
677+50.00	26	26	0	26	1	1	2	24	0	0	0	0	0	0								
677+54.06	61	61	0	61	17	17	23	38	0	0	0	8	11	-11								
677+64.06	235	235	0	235	104	104	135	100	0	0	0	48	67	-67								
678+00.00	80	80	0	80	25	25	33	48	0	0	0	10	14	-14								
678+13.15	44	44	0	44	34	34	44	0	0	0	0	6	8	-8								
678+23.15	75	75	0	75	159	159	207	-132	0	0	0	17	23	-23								
678+46.15	11	11	0	11	34	34	44	-33	0	0	0	2	3	-3								
678+50.00	19	19	0	19	64	64	83	-64	0	0	0	5	8	-8								
678+56.15	68	68	0	68	345	345	448	-380	0	0	0	34	47	-47								
678+81.15	48	48	0	48	268	268	348	-300	0	0	0	32	45	-45								
678+98.87	3	3	0	3	16	16	21	-17	0	0	0	2	4	-4								
679+00.00	13	13	0	13	66	66	86	-73	0	0	0	12	17	-17								
679+05.00	69	69	0	69	249	249	324	-255	0	0	0	55	77	-77								
679+25.48	185	185	0	185	198	198	258	-73	0	0	0	59	83	-83								
679+50.00	22	22	0	22	10	10	13	10	0	0	0	4	6	-6								
679+52.00	262	262	0	262	290	290	377	-115	0	0	0	109	153	-153								
679+86.17	35	35	0	35	111	111	144	-110	0	0	0	36	51	-51								
679+95.64	13	13	0	13	53	53	69	-57	0	0	0	15	22	-22								
680+00.00	10	10	0	10	78	78	101	-91	0	0	0	18	25	-25								
680+05.32	30	30	0	30	565	565	735	-705	0	0	0	87	122	-122								
680+36.57	6	6	0	6	243	243	317	-310	0	0	0	28	40	-40								
680+50.00	10	9	2	9	250	250	325	-316	0	0	2	27	37	-36								
680+66.00	5	4	1	4	89	89	116	-112	0	0	1	8	12	-11								
680+72.00	21	15	6	15	392	392	509	-494	0	0	6	31	43	-37								
681+00.00	19	13	6	13	350	350	455	-442	0	0	6	33	46	-40								
681+26.76	19	16	3	16	126	126	164	-148	0	0	3	15	21	-18								
681+36.74	46	36	10	36	172	172	224	-188	0	0	10	23	32	-22								
681+50.00																						
Subtotals:	13,853	13,811	42	13,811	5,959	5,959	7,749	6,064	0	0	42	1,469	2,060	-2,019								

Refer to Standard Road Plans EW-101 and EW-102.

TABULATION OF TEMPLATE QUANTITIES AND ADJUSTMENTS

Station	Cut				Fill				Checks (EW-102)		Topsoil											
	[1]	[2]	[3]	[4]	[5]	[6]	[7]	[8]	[9]	[10]	[11]	[12]	[13]	[14]	[15]	[16]	[17]	[18]	[19]	[20]	[21]	[22]
	Total Cut Unadjusted Volume	Total Class 10 Unadjusted Volume	Topsoil Cut Volume	Total Cut Adjusted	Total Fill Unadjusted Volume	Total Fill Adjusted	Total Fill Adjusted w/ Weighted Average 1.3 Shrink Factor	Total Cut Adjusted Minus Fill w/ Shrink	Approx. Fill Vol. Below 5' & Above 20' w/ Shrink	Approx. Fill Volume Below 3' w/ Shrink	Topsoil Stripping Undercut Volume	Topsoil Placement Undercut Volume	Topsoil Placement With 1.4 Shrink Factor	Topsoil Stripping Minus Topsoil Placement w/Shrink								
681+50.00	56	35	21	35	237	237	308	-273	0	0	21	37	52	-31								
681+67.50	4	3	2	3	20	20	26	-23	0	0	2	3	4	-3								
681+69.00	60	37	23	37	282	282	366	-329	0	0	23	40	56	-33								
681+87.77	15	9	6	9	89	89	115	-106	0	0	6	12	16	-10								
681+92.90	27	20	6	20	89	89	116	-95	0	0	6	12	16	-10								
681+97.97	11	8	3	8	35	35	45	-37	0	0	3	5	7	-4								
682+00.00	44	27	16	27	203	203	263	-236	0	0	16	30	42	-26								
682+12.98	34	22	13	22	148	148	193	-171	0	0	13	24	33	-21								
682+23.00	44	28	16	28	209	209	272	-244	0	0	16	30	42	-26								
682+35.56	18	12	6	12	92	92	120	-109	0	0	6	12	17	-11								
682+40.70	18	12	6	12	92	92	119	-108	0	0	6	12	17	-11								
682+45.78	15	10	5	10	74	74	97	-87	0	0	5	10	14	-9								
682+50.00	32	21	11	21	148	148	192	-172	0	0	11	21	30	-19								
682+59.00	36	23	12	23	147	147	191	-168	0	0	12	23	33	-20								
682+68.80	26	17	9	17	107	107	140	-123	0	0	9	17	24	-15								
682+76.00	27	18	9	18	120	120	156	-138	0	0	9	18	25	-16								
682+83.43	18	12	6	12	85	85	110	-98	0	0	6	12	17	-11								
682+88.48	19	12	6	12	85	85	110	-98	0	0	6	12	17	-10								
682+93.53	24	16	8	16	103	103	134	-119	0	0	8	15	21	-13								
683+00.00	33	22	12	22	132	132	172	-150	0	0	12	21	29	-18								
683+09.00	32	21	11	21	118	118	154	-133	0	0	11	20	28	-17								
683+17.66	50	32	18	32	202	202	263	-232	0	0	18	31	44	-26								
683+31.48	18	11	6	11	82	82	106	-95	0	0	6	11	16	-9								
683+36.54	18	11	6	11	82	82	107	-95	0	0	6	11	16	-9								
683+41.59	30	19	11	19	128	128	167	-148	0	0	11	18	25	-15								
683+50.00	21	13	8	13	86	86	112	-99	0	0	8	13	18	-10								
683+56.00	24	15	9	15	100	100	130	-116	0	0	9	15	21	-12								
683+62.83	31	19	12	19	143	143	186	-167	0	0	12	20	28	-15								
683+72.00	26	15	11	15	130	130	169	-154	0	0	11	16	23	-12								
683+79.74	17	10	7	10	89	89	116	-106	0	0	7	11	15	-8								
683+84.88	16	10	7	10	84	84	110	-100	0	0	7	10	14	-8								
683+89.95	31	18	12	18	150	150	195	-177	0	0	12	19	26	-14								
684+00.00	4	2	2	2	20	20	26	-23	0	0	2	3	4	-2								
684+01.41	30	18	12	18	150	150	195	-177	0	0	12	20	28	-16								
684+12.00	33	19	14	19	164	164	213	-194	0	0	14	19	27	-13								
684+23.89	27	16	11	16	135	135	176	-160	0	0	11	14	20	-8								
684+33.92	42	24	18	24	217	217	283	-259	0	0	18	25	36	-17								
684+50.00	121	52	68	52	612	612	796	-743	0	0	68	86	120	-52								
685+00.00	89	18	71	18	507	507	659	-641	0	0	71	81	114	-44								
685+50.00	73	14	59	14	445	445	578	-565	0	0	59	76	106	-47								
686+00.00	134	59	75	59	482	482	626	-567	0	0	75	79	111	-36								
686+50.00	146	84	62	84	362	362	471	-386	0	0	62	56	78	-17								
686+82.83	0	0	0	0	0	0	0	0	0	0	0	0	0	0								
687+00.00	212	148	64	148	366	366	476	-328	0	0	64	55	77	-13								
687+32.83	130	95	34	95	189	189	246	-150	0	0	34	28	39	-5								
687+50.00	104	78	26	78	144	144	187	-109	0	0	26	21	29	-3								
687+62.89	342	267	75	267	384	384	499	-233	0	0	75	53	74	1								
688+00.00	525	430	95	430	408	408	530	-100	0	0	95	61	85	10								
688+50.00	544	458	85	458	312	312	405	53	0	0	85	57	80	5								
689+00.00	523	443	80	443	279	279	363	79	0	0	80	55	77	3								
689+50.00	453	375	78	375	293	293	381	-5	0	0	78	53	74	4								
690+00.00	179	145	35	145	137	137	179	-34	0	0	35	23	33	2								
690+23.25	113	96	18	96	61	61	80	16	0	0	18	12	17	1								
690+40.10	54	51	3	51	7	7	10	41	0	0	3	2	3	0								
690+50.00	58	58	0	58	0	0	0	58	0	0	0	0	0	0								
690+62.82	122	122	0	122	0	0	0	122	0	0	0	0	0	0								
690+96.76	10	10	0	10	0	0	0	10	0	0	0	0	0	0								
691+00.00	35	35	0	35	0	0	0	35	0	0	0	0	0	0								
691+11.33	10	10	0	10	0	0	0	11	0	0	0	0	0	0								
691+15.00	58	58	0	58	0	0	0	58	0	0	0	0	0	0								
691+37.50	3	3	0	3	0	0	0	3	0	0	0	0	0	0								
691+38.85	25	25	0	25	0	0	0	25	0	0	0	0	0	0								
691+50.00	34	34	0	34	0	0	0	34	0	0	0	0	0	0								
691+66.33	27	27	0	27	0	0	0	27	0	0	0	0	0	0								
691+80.00	37	37	0	37	0	0	1	37	0	0	0	0	0	0								
692+00.00	57	47	10	47	39	39	50	-4	0	0	10	8	11	0								
692+30.00	19	13	7	13	24	24	32	-19	0	0	7	5	7	0								
692+40.00	18	12	6	12	21	21	28	-16	0	0	6	4	6	0								
692+50.00																						
Subtotals:	5,266	3,941	1,325	3,941	9,648	9,648	12,546	-8,607	0	0	1,325	1,455	2,041	-717								

Refer to Standard Road Plans EW-101 and EW-102.

TABULATION OF TEMPLATE QUANTITIES AND ADJUSTMENTS

107-28
04-21-15

Station	Cut				Fill				Checks (EW-102)		Topsoil											
	[1]	[2]	[3]	[4]	[5]	[6]	[7]	[8]	[9]	[10]	[11]	[12]	[13]	[14]	[15]	[16]	[17]	[18]	[19]	[20]	[21]	[22]
	Total Cut Unadjusted Volume	Total Class 10 Unadjusted Volume	Topsoil Cut Volume	Total Cut Adjusted	Total Fill Unadjusted Volume	Total Fill Adjusted	Total Fill Adjusted w/ Weighted Average 1.3 Shrink Factor	Total Cut Adjusted Minus Fill w/ Shrink	Approx. Fill Vol. Below 5' & Above 20' w/ Shrink	Approx. Fill Volume Below 3' w/ Shrink	Topsoil Stripping Undercut Volume	Topsoil Placement Undercut Volume	Topsoil Placement With 1.4 Shrink Factor	Topsoil Stripping Minus Topsoil Placement w/Shrink								
692+50.00	6	3	3	3	8	8	11	-8	0	0	3	1	2	0								
692+52.64	30	14	16	14	52	52	68	-54	0	0	16	9	12	4								
692+65.00	62	28	34	28	112	112	146	-117	0	0	34	18	25	9								
692+90.00	25	12	14	12	47	47	62	-50	0	0	14	7	10	3								
693+00.00	147	79	68	79	246	246	320	-241	0	0	68	38	53	15								
693+50.00	188	120	67	120	258	258	335	-215	0	0	67	39	55	13								
694+00.00	230	163	67	163	268	268	348	-185	0	0	67	41	57	10								
694+50.00	259	193	67	193	270	270	351	-158	0	0	67	43	61	6								
695+00.00	269	204	65	204	275	275	357	-154	0	0	65	51	71	-6								
695+50.00	53	40	13	40	55	55	72	-32	0	0	13	11	16	-3								
695+59.80	216	165	52	165	225	225	292	-128	0	0	52	48	67	-16								
696+00.00	54	41	13	41	56	56	73	-32	0	0	13	12	17	-5								
696+10.00	216	165	50	165	220	220	285	-120	0	0	50	49	69	-19								
696+50.00	289	229	59	229	221	221	288	-58	0	0	59	46	64	-5								
697+00.00	89	74	14	74	31	31	40	35	0	0	14	6	9	6								
697+15.00	191	169	22	169	12	12	16	153	0	0	22	5	8	15								
697+50.00	107	97	11	97	3	3	4	93	0	0	11	2	2	8								
697+71.00	42	38	4	38	2	2	3	35	0	0	4	1	1	3								
697+79.50	85	76	9	76	5	5	6	70	0	0	9	1	1	8								
698+00.00	61	53	8	53	4	4	5	48	0	0	8	0	0	8								
698+19.18	59	50	10	50	8	8	10	40	0	0	10	0	0	10								
698+50.00	35	28	7	28	11	11	14	14	0	0	7	0	0	7								
698+90.62	8	7	1	7	3	3	4	3	0	0	1	0	0	2								
699+00.00	42	33	9	33	17	17	22	11	0	0	9	0	0	9								
699+50.00	22	17	5	17	16	16	21	-4	0	0	5	0	0	5								
700+00.00	4	4	0	4	15	15	20	-17	0	0	0	0	0	0								
700+50.00	17	17	0	17	14	14	18	-1	0	0	0	0	0	0								
701+00.00	15	15	0	15	8	8	11	4	0	0	0	0	0	0								
701+41.60	1	1	0	1	1	1	2	-1	0	0	0	0	0	0								
701+50.00	1	1	0	1	3	3	4	-3	0	0	0	0	0	0								
702+00.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0								
702+13.30																						
STG2SR006																						
Totals:	26,725	24,652	2,074	24,652	18,259	18,259	23,746	910	0	0	2,074	3,683	5,165	-3,096								

FILE NO.		DESIGN TEAM Snyder & Associates, Inc.	POLK COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER T.6	

V2

Refer to Standard Road Plans EW-101 and EW-102.

TABULATION OF TEMPLATE QUANTITIES AND ADJUSTMENTS

107-28
04-21-15

Station	Cut				Fill				Checks (EW-102)		Topsoil											
	[1]	[2]	[3]	[4]	[5]	[6]	[7]	[8]	[9]	[10]	[11]	[12]	[13]	[14]	[15]	[16]	[17]	[18]	[19]	[20]	[21]	[22]
	Total Cut Unadjusted Volume	Total Class 10 Unadjusted Volume	Topsoil Cut Volume	Total Cut Adjusted	Total Fill Unadjusted Volume	Total Fill Adjusted	Total Fill Adjusted w/ Weighted Average 1.3 Shrink Factor	Total Cut Adjusted Minus Fill w/ Shrink	Approx. Fill Vol. Below 5' & Above 20' w/ Shrink	Approx. Fill Volume Below 3' w/ Shrink	Topsoil Stripping Undercut Volume	Topsoil Placement Undercut Volume	Topsoil Placement With 1.4 Shrink Factor	Topsoil Stripping Minus Topsoil Placement w/Shrink								
STG2SR111																						
3686+11.26	14	6	7	6	0	0	0	6	0	0	7	6	8	-1								
3686+32.60	11	5	6	5	0	0	0	5	0	0	6	5	7	-1								
3686+40.85	15	7	8	7	0	0	0	7	0	0	8	7	9	-2								
3686+50.00	24	12	12	12	0	0	0	12	0	0	12	10	14	-2								
3686+61.77	16	8	7	8	0	0	0	8	0	0	7	6	9	-1								
3686+68.44	27	14	14	14	0	0	0	14	0	0	14	11	15	-2								
3686+81.06	25	11	13	11	0	0	0	11	0	0	13	9	13	1								
3686+93.04	15	7	8	7	0	0	0	7	0	0	8	5	7	1								
3687+00.00	11	5	6	5	0	0	0	5	0	0	6	3	5	1								
3687+04.91	23	11	12	11	1	1	1	10	0	0	12	6	9	3								
3687+15.00	44	21	23	21	2	2	3	18	0	0	23	10	13	9								
3687+33.97	10	4	5	4	1	1	1	4	0	0	5	2	3	3								
3687+38.20	18	9	9	9	1	1	1	7	0	0	9	3	4	5								
3687+46.94	6	3	3	3	0	0	0	3	0	0	3	1	1	2								
3687+50.00	5	3	2	3	0	0	0	3	0	0	2	1	1	1								
3687+52.28	5	3	3	3	0	0	0	3	0	0	3	1	1	1								
3687+54.99	13	7	6	7	0	0	0	7	0	0	6	2	3	3								
3687+61.15	1	1	1	1	0	0	0	1	0	0	1	0	0	0								
3687+61.72	15	11	4	11	0	0	0	11	0	0	4	2	3	1								
3687+67.70	5	5	0	5	0	0	0	5	0	0	0	0	1	0								
3687+69.81	5	5	0	5	0	0	0	5	0	0	0	0	0	0								
3687+72.36	5	5	0	5	0	0	0	5	0	0	0	0	0	0								
3687+75.00	7	7	0	7	0	0	0	7	0	0	0	0	0	0								
3687+79.07	9	9	0	9	0	0	0	9	0	0	0	0	0	0								
3687+84.04	3	3	0	3	0	0	0	3	0	0	0	0	0	0								
3687+85.57	8	8	0	8	0	0	0	8	0	0	0	0	0	0								
3687+90.46	8	7	1	7	0	0	0	7	0	0	1	0	1	0								
3687+95.74	10	8	2	8	0	0	0	8	0	0	2	1	2	0								
3688+00.00	6	5	1	5	0	0	0	5	0	0	1	1	1	0								
3688+02.62	12	9	3	9	0	0	0	9	0	0	3	1	2	1								
3688+08.86	9	6	2	6	0	0	0	7	0	0	2	1	1	1								
3688+13.00	31	24	7	24	0	0	0	24	0	0	7	3	4	3								
3688+25.00	11	9	2	9	0	0	0	9	0	0	2	1	1	1								
3688+29.00	43	34	9	34	0	0	0	34	0	0	9	3	4	5								
3688+45.00	12	9	3	9	0	0	0	9	0	0	3	1	1	2								
3688+50.00	31	22	8	22	0	0	0	22	0	0	8	3	5	4								
3688+65.00	23	18	6	18	0	0	0	18	0	0	6	2	3	2								
3688+78.21	37	28	8	28	1	1	2	27	0	0	8	3	4	5								
3689+00.00	4	3	1	3	0	0	0	3	0	0	1	0	1	1								
3689+02.35	7	5	2	5	0	0	0	5	0	0	2	1	1	1								
3689+06.35	42	31	12	31	2	2	2	28	0	0	12	4	6	6								
3689+28.00	10	7	3	7	0	0	1	7	0	0	3	1	1	2								
3689+33.00	33	24	9	24	2	2	2	22	0	0	9	3	4	5								
3689+50.00	28	21	8	21	1	1	1	20	0	0	8	3	4	4								
3689+65.00	3	2	1	2	0	0	0	2	0	0	1	0	0	0								
3689+66.53	14	10	4	10	0	0	0	10	0	0	4	2	2	1								
3689+73.53	7	5	2	5	0	0	0	5	0	0	2	1	2	0								
3689+76.79	10	7	3	7	0	0	0	7	0	0	3	2	2	1								
3689+81.79	11	8	4	8	0	0	0	8	0	0	4	2	3	1								
3689+87.23	17	12	4	12	0	0	0	12	0	0	4	2	3	1								
3689+95.00	10	9	1	9	0	0	0	9	0	0	1	1	1	0								
3690+00.00	16	13	2	13	0	0	1	13	0	0	2	1	2	0								
3690+09.00	7	5	1	5	0	0	1	5	0	0	1	1	1	0								
3690+13.81	9	7	2	7	1	1	2	5	0	0	2	1	2	0								
3690+20.00	5	4	1	4	1	1	2	2	0	0	1	1	1	0								
3690+23.03	14	10	4	10	2	2	3	8	0	0	4	2	3	1								
3690+31.36	8	5	3	5	0	0	0	5	0	0	3	2	3	0								
3690+35.36	35	24	11	24	15	15	20	5	0	0	11	9	13	-2								
3690+50.00	12	8	4	8	9	9	11	-3	0	0	4	4	5	-1								
3690+54.06	8	5	3	5	5	5	6	-1	0	0	3	3	4	-1								
3690+56.52	13	8	4	8	10	10	13	-5	0	0	4	4	6	-1								
3690+60.37	16	10	6	10	19	19	24	-14	0	0	6	5	7	-1								
3690+64.88	26	17	8	17	32	32	42	-25	0	0	8	7	10	-1								
3690+71.48	4	3	1	3	5	5	6	-3	0	0	1	1	1	0								
3690+72.49	37	28	9	28	28	28	37	-9	0	0	9	5	7	2								
3690+80.90	6	4	2	4	4	4	6	-1	0	0	2	1	1	1								
3690+82.90	5	1	4	1	5	5	7	-5	0	0	4	1	2	2								
3690+87.90																						
Subtotals:	984	669	316	669	150	150	199	473	0	0	316	177	250	67								

FILE NO.		DESIGN TEAM Snyder & Associates, Inc.	POLK COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER T.7	

Refer to Standard Road Plans EW-101 and EW-102.

TABULATION OF TEMPLATE QUANTITIES AND ADJUSTMENTS

107-28
04-21-15

Station	Cut				Fill				Checks (EW-102)		Topsoil											
	[1]	[2]	[3]	[4]	[5]	[6]	[7]	[8]	[9]	[10]	[11]	[12]	[13]	[14]	[15]	[16]	[17]	[18]	[19]	[20]	[21]	[22]
	Total Cut Unadjusted Volume	Total Class 10 Unadjusted Volume	Topsoil Cut Volume	Total Cut Adjusted	Total Fill Unadjusted Volume	Total Fill Adjusted	Total Fill Adjusted w/ Weighted Average 1.3 Shrink Factor	Total Cut Adjusted Minus Fill w/ Shrink	Approx. Fill Vol. Below 5' & Above 20' w/ Shrink	Approx. Fill Volume Below 3' w/ Shrink	Topsoil Stripping Undercut Volume	Topsoil Placement Undercut Volume	Topsoil Placement With 1.4 Shrink Factor	Topsoil Stripping Minus Topsoil Placement w/Shrink								
3690+87.90	2	1	2	1	0	0	1	0	0	0	2	0	0	2								
3690+90.90	207	75	132	75	3	3	4	71	0	0	132	0	0	132								
3691+84.90	11	3	8	3	0	0	0	3	0	0	8	1	1	6								
3691+87.90	31	11	21	11	18	18	24	-13	0	0	21	6	8	12								
3691+94.90	15	5	10	5	21	21	27	-22	0	0	10	4	5	5								
3691+97.90	42	11	31	11	91	91	118	-107	0	0	31	8	11	21								
3692+06.90	27	7	20	7	64	64	84	-77	0	0	20	1	1	19								
3692+12.39	28	8	20	8	59	59	77	-69	0	0	20	7	10	10								
3692+17.90	28	11	17	11	35	35	46	-35	0	0	17	12	17	1								
3692+24.12	5	3	3	3	2	2	3	0	0	0	3	1	2	1								
3692+25.47	13	7	5	7	2	2	3	4	0	0	5	2	4	2								
3692+29.03	46	31	15	31	6	6	8	24	0	0	15	5	7	7								
3692+42.90	24	18	6	18	2	2	3	15	0	0	6	2	3	3								
3692+50.00	87	69	19	69	3	3	3	65	0	0	19	6	9	10								
3692+75.00	50	41	10	41	0	0	0	41	0	0	10	3	5	5								
3692+90.00	37	25	12	25	0	0	0	25	0	0	12	2	3	9								
3693+00.00	20	12	9	12	0	0	0	12	0	0	9	1	2	7								
3693+05.00	17	11	6	11	0	0	0	11	0	0	6	1	2	4								
3693+10.00	29	23	6	23	0	0	0	23	0	0	6	2	3	3								
3693+20.00	29	22	6	22	0	0	0	23	0	0	6	2	3	3								
3693+30.00	53	40	12	40	0	0	0	40	0	0	12	5	6	6								
3693+50.00	31	23	8	23	0	0	0	23	0	0	8	3	4	4								
3693+62.50	20	15	5	15	0	0	0	15	0	0	5	2	3	2								
3693+70.50	24	18	6	18	0	0	0	18	0	0	6	2	3	3								
3693+80.28	12	9	3	9	0	0	0	9	0	0	3	1	2	2								
3693+85.27	19	14	5	14	0	0	0	14	0	0	5	2	3	2								
3693+92.88	18	13	5	13	0	0	0	14	0	0	5	2	3	2								
3694+00.00	12	9	3	9	0	0	0	9	0	0	3	1	2	1								
3694+04.62	33	24	8	24	0	0	0	24	0	0	8	3	5	4								
3694+16.89	6	4	1	4	0	0	0	4	0	0	1	1	1	1								
3694+19.00	12	9	3	9	0	0	0	9	0	0	3	1	2	1								
3694+23.46	69	51	18	51	0	0	0	52	0	0	18	8	11	7								
3694+50.00	11	8	3	8	0	0	0	8	0	0	3	1	2	1								
3694+54.60	21	16	6	16	0	0	0	16	0	0	6	3	5	1								
3694+65.21	8	6	2	6	0	0	0	6	0	0	2	1	2	0								
3694+70.14	1	1	0	1	0	0	0	1	0	0	0	0	0	0								
3694+70.97	17	14	3	14	0	0	0	14	0	0	3	1	2	1								
3694+83.66	12	10	2	10	0	0	0	11	0	0	2	1	1	0								
3694+92.45	6	5	1	5	0	0	0	5	0	0	1	1	1	0								
3694+95.98	8	6	2	6	0	0	0	6	0	0	2	2	2	0								
3695+00.00	16	11	5	11	0	0	0	11	0	0	5	4	5	0								
3695+12.50	16	10	6	10	0	0	0	10	0	0	6	4	6	0								
3695+32.68	12	8	4	8	0	0	0	8	0	0	4	3	5	-1								
3695+50.00	15	12	4	12	0	0	0	12	0	0	4	4	5	-1								
3695+75.62																						
STG2SR111																						
Totals:	2,185	1,400	786	1,400	458	458	598	806	0	0	786	300	424	364								

FILE NO.		DESIGN TEAM Snyder & Associates, Inc.	POLK COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER T.8	

Refer to Standard Road Plans EW-101 and EW-102.

TABULATION OF TEMPLATE QUANTITIES AND ADJUSTMENTS

107-28
04-21-15

Station	Cut				Fill				Checks (EW-102)		Topsoil											
	[1]	[2]	[3]	[4]	[5]	[6]	[7]	[8]	[9]	[10]	[11]	[12]	[13]	[14]	[15]	[16]	[17]	[18]	[19]	[20]	[21]	[22]
	Total Cut Unadjusted Volume	Total Class 10 Unadjusted Volume	Topsoil Cut Volume	Total Cut Adjusted	Total Fill Unadjusted Volume	Total Fill Adjusted	Total Fill Adjusted w/ Weighted Average 1.3 Shrink Factor	Total Cut Adjusted Minus Fill w/ Shrink	Approx. Fill Vol. Below 5' & Above 20' w/ Shrink	Approx. Fill Volume Below 3' w/ Shrink	Topsoil Stripping Undercut Volume	Topsoil Placement Undercut Volume	Topsoil Placement With 1.4 Shrink Factor	Topsoil Stripping Minus Topsoil Placement w/Shrink								
STG2TRL080																						
60013+82.19																						
60014+00.00	1	1	0	1	0	0	0	1	0	0	0	0	1	-1								
60014+21.09	0	0	0	0	1	1	1	-1	0	0	0	1	1	-1								
60014+50.00	0	0	0	0	1	1	1	-1	0	0	0	1	2	-2								
60014+53.22	0	0	0	0	0	0	0	0	0	0	0	0	0	0								
60015+00.00	0	0	0	0	2	2	2	-2	0	0	0	2	3	-3								
60015+50.00	0	0	0	0	2	2	2	-2	0	0	0	2	3	-3								
60015+53.22	0	0	0	0	0	0	0	0	0	0	0	0	0	0								
60015+80.00	2	2	0	2	1	1	1	1	0	0	0	1	1	-1								
60015+92.58	2	2	0	2	0	0	0	2	0	0	0	0	0	0								
60017+95.09	44	44	0	44	0	0	0	45	0	0	0	8	11	-11								
60018+00.00	1	1	0	1	0	0	0	1	0	0	0	0	1	-1								
60018+07.66	2	2	0	2	0	0	0	2	0	0	0	0	1	-1								
60018+25.00	4	4	0	4	0	0	0	5	0	0	0	1	1	-1								
60018+50.00	6	6	0	6	0	0	0	7	0	0	0	1	1	-1								
60018+64.94	4	4	0	4	0	0	0	4	0	0	0	1	1	-1								
60019+00.00	9	9	0	9	0	0	0	9	0	0	0	1	2	-2								
60019+35.79	9	9	0	9	0	0	0	9	0	0	0	1	2	-2								
60019+50.00	4	4	0	4	0	0	0	4	0	0	0	1	1	-1								
60019+74.56	3	3	0	3	0	0	0	3	0	0	0	0	1	-1								
60019+76.34	0	0	0	0	0	0	0	0	0	0	0	0	0	0								
60019+78.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0								
60019+83.80	1	1	0	1	0	0	0	1	0	0	0	0	0	0								
60019+88.00	2	2	0	2	0	0	0	2	0	0	0	0	0	0								
STG2TRL080																						
Totals:	96	96	0	96	6	6	9	89	0	0	0	21	31	-31								

FILE NO.		DESIGN TEAM Snyder & Associates, Inc.	POLK COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER T.9	

Refer to Standard Road Plans EW-101 and EW-102.

TABULATION OF TEMPLATE QUANTITIES AND ADJUSTMENTS

107-28
04-21-15

Station	Cut				Fill				Checks (EW-102)		Topsoil											
	[1]	[2]	[3]	[4]	[5]	[6]	[7]	[8]	[9]	[10]	[11]	[12]	[13]	[14]	[15]	[16]	[17]	[18]	[19]	[20]	[21]	[22]
	Total Cut Unadjusted Volume	Total Class 10 Unadjusted Volume	Topsoil Cut Volume	Total Cut Adjusted	Total Fill Unadjusted Volume	Total Fill Adjusted	Total Fill Adjusted w/ Weighted Average 1.3 Shrink Factor	Total Cut Adjusted Minus Fill w/ Shrink	Approx. Fill Vol. Below 5' & Above 20' w/ Shrink	Approx. Fill Volume Below 3' w/ Shrink	Topsoil Stripping Undercut Volume	Topsoil Placement Undercut Volume	Topsoil Placement With 1.4 Shrink Factor	Topsoil Stripping Minus Topsoil Placement w/Shrink								
STG2TRL006																						
50061+78.32	5	5	0	5	0	0	0	5	0	0	0	2	2	-2								
50061+85.70	4	4	0	4	1	1	1	3	0	0	0	4	6	-6								
50061+98.40	0	0	0	0	0	0	0	0	0	0	0	1	1	-1								
50062+00.00	3	3	0	3	2	2	2	1	0	0	0	9	12	-12								
50062+25.00	2	2	0	2	1	1	2	1	0	0	0	6	9	-9								
50062+44.56	1	1	0	1	0	0	0	0	0	0	0	2	3	-3								
50062+50.00	1	1	0	1	0	0	1	1	0	0	0	4	5	-5								
50062+58.45	2	2	0	2	1	1	2	1	0	0	0	8	11	-11								
50062+75.00	3	3	0	3	1	1	1	1	0	0	0	8	12	-12								
50062+92.14	1	1	0	1	0	0	1	1	0	0	0	4	5	-5								
50063+00.00	4	4	0	4	1	1	2	2	0	0	0	12	16	-16								
50063+25.00	1	1	0	1	0	0	0	0	0	0	0	2	3	-3								
50063+29.07	1	1	0	1	0	0	1	0	0	0	0	2	3	-3								
50063+32.71	3	3	0	3	6	6	8	-6	0	0	0	10	14	-14								
50063+50.00	3	3	0	3	6	6	8	-6	0	0	0	7	10	-10								
50063+70.68	1	1	0	1	0	0	0	1	0	0	0	1	2	-2								
50063+75.00	3	3	0	3	0	0	0	3	0	0	0	2	2	-2								
50063+82.18	3	3	0	3	0	0	0	3	0	0	0	1	2	-2								
50063+88.18	1	1	0	1	0	0	0	2	0	0	0	1	1	-1								
50063+93.16	0	0	0	0	0	0	0	0	0	0	0	0	0	0								
50063+95.51	18	18	0	18	0	0	0	18	0	0	0	6	9	-9								
50065+80.52	1	1	0	1	0	0	0	1	0	0	0	0	1	-1								
50065+82.86	2	2	0	2	0	0	0	2	0	0	0	1	1	-1								
50065+87.84	3	3	0	3	0	0	0	3	0	0	0	1	2	-2								
50065+93.84	3	3	0	3	0	0	0	3	0	0	0	1	2	-2								
50066+00.00	1	1	0	1	0	0	0	1	0	0	0	1	2	-2								
50066+05.00	3	3	0	3	5	5	6	-3	0	0	0	7	9	-9								
50066+25.00	1	1	0	1	5	5	6	-5	0	0	0	7	9	-9								
50066+38.00	1	1	0	1	1	1	1	0	0	0	0	2	3	-3								
50066+42.00	1	1	0	1	1	1	1	0	0	0	0	4	5	-5								
50066+50.00	1	1	0	1	1	1	1	0	0	0	0	3	4	-4								
50066+59.62	2	2	0	2	0	0	1	1	0	0	0	5	7	-7								
50066+75.00	0	0	0	0	0	0	0	0	0	0	0	1	1	-1								
50066+77.84	3	3	0	3	0	0	1	2	0	0	0	7	9	-9								
50067+00.00	3	3	0	3	0	0	1	3	0	0	0	7	10	-10								
50067+25.00	3	3	0	3	0	0	1	2	0	0	0	7	10	-10								
50067+47.73	0	0	0	0	0	0	0	0	0	0	0	1	1	-1								
50067+50.00	1	1	0	1	0	0	0	1	0	0	0	2	3	-3								
50067+56.28	1	1	0	1	0	0	0	1	0	0	0	1	2	-2								
50067+62.00	3	3	0	3	0	0	0	3	0	0	0	1	1	-1								
50067+67.76																						
STG2TRL006																						
Totals:	90	90	0	90	35	35	47	45	0	0	0	150	211	-211								

FILE NO.		DESIGN TEAM Snyder & Associates, Inc.	POLK COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER T.10	

Refer to Standard Road Plans EW-101 and EW-102.

TABULATION OF TEMPLATE QUANTITIES AND ADJUSTMENTS

107-28
04-21-15

Station	Cut				Fill				Checks (EW-102)		Topsoil											
	[1]	[2]	[3]	[4]	[5]	[6]	[7]	[8]	[9]	[10]	[11]	[12]	[13]	[14]	[15]	[16]	[17]	[18]	[19]	[20]	[21]	[22]
	Total Cut Unadjusted Volume	Total Class 10 Unadjusted Volume	Topsoil Cut Volume	Total Cut Adjusted	Total Fill Unadjusted Volume	Total Fill Adjusted	Total Fill Adjusted w/ Weighted Average 1.3 Shrink Factor	Total Cut Adjusted Minus Fill w/ Shrink	Approx. Fill Vol. Below 5' & Above 20' w/ Shrink	Approx. Fill Volume Below 3' w/ Shrink	Topsoil Stripping Undercut Volume	Topsoil Placement Undercut Volume	Topsoil Placement With 1.4 Shrink Factor	Topsoil Stripping Minus Topsoil Placement w/Shrink								
Summary:																						
Stage 1																						
STG1SR006																						
Subtotals:	1,191	774	418	774	29	29	39	737	0	0	418	0	0	420								
	1,191	774	418	774	29	29	39	737	0	0	418	0	0	420								
Stage 2																						
STG2SR006	26,725	24,652	2,074	24,652	18,259	18,259	23,746	910	0	0	2,074	3,683	5,165	-3,096								
STG2SR111	2,185	1,400	786	1,400	458	458	598	806	0	0	786	300	424	364								
STG2TRL080	96	96	0	96	6	6	9	89	0	0	0	21	31	-31								
STG2TRL006	90	90	0	90	35	35	47	45	0	0	0	150	211	-211								
Subtotals:	29,096	26,238	2,860	26,238	18,758	18,758	24,400	1,850	0	0	2,860	4,154	5,831	-2,974								
Project Totals:	30,287	27,012	3,278	27,012	18,787	18,787	24,439	2,587	0	0	3,278	4,154	5,831	-2,554								

Excavation, Class 10, Roadway & Borrow

Stage 1:	39	[4] or [7]
Stage 2:	24,400	[4] or [7]
Total:	24,439	

Excavation, Class 10, Waste

Stage 1:	737	[8]
Stage 2:	1,850	[8]
Total:	2,587	

Compaction with Moisture Control

Stage 1:	29	[6]
Stage 2:	18,758	[6]
Total:	18,787	

Topsoil Strip, Salvage and Spread

Stage 1:	0	[11] or [13]
Stage 2:	2,860	[11] or [13]
Total:	2,860	

Topsoil, Strip and Stockpile

Stage 1:	420	[14]
Stage 2:	0	
Total:	420	

Topsoil, Furnish & Spread

Stage 1:	-420	
Stage 2:	2,974/1.4 = 2,124	[4]/1.4
Total:	1,704	

Topsoil, Spread

Stage 1:	0
Stage 2:	420
	420

Bioretention Ramp A, Refer to U.2

Bioretention Ramp D, Refer to U.5

Ramp A2

Ramp A1

Ramp D1

Ramp D2

U.S. 6 / Hickman Road

Ramp C2

Ramp C1

I-80/35 SB/WB

I-80/35 NB/EB

Ramp B1

Ramp B2

Bioretention Ramp C, Refer to U.4

Bioretention Ramp B, Refer to U.3

0 40 FEET

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

David J. Mulholland 7/1/26

David J. Mulholland, P.E. Date

License Number P14746

My License Renewal Date is December 31, 2026

Pages or sheets covered by this seal:
U.1-U.17

DAVID J. MULHOLLAND P14746 LICENSED PROFESSIONAL ENGINEER IOWA

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER U.1

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V2

Point #	Station	Offset	Elevation
1	1672+82.48	66.99' LT	886.95
2	1672+94.37	46.00' LT	886.95
3	1672+87.12	69.61' LT	886.95
4	1672+99.39	47.82' LT	886.95
5	1672+99.91	76.81' LT	886.00
6	1673+12.17	55.02' LT	886.00
7	1673+09.49	82.20' LT	885.50
8	1673+21.76	60.42' LT	885.50
9	1673+31.28	94.47' LT	885.50
10	1673+43.54	72.68' LT	885.50
11	1673+40.51	99.67' LT	885.10
12	1673+52.78	77.88' LT	885.10
13	1673+61.78	111.63' LT	885.10
14	1673+74.04	89.85' LT	885.10

Ramp A2

Ramp A1

Hickman Road

Ramp A Bioretention Cell

Bioretention Cell 1

Grass Berm

Grass Swale

Concrete Pad

10'-7 3/16"

24'-4 13/16"

25'-0"

11'-0"

14'-8 1/16"

Structure BR5
SW-512, Refer to M-Sheets
8" Subdrain FL. = 881.10

STA: 1672+86.15, 54.71' LT
Install Type B Subdrain Cleanout
FG Elev. = 888.00
FL Elev. = 881.58

PCC Flume.
Refer to Details on U.7

Structure BR4
SW-507 (Modified)
Refer to Details on U.6
and M-Sheets

STA: 2674+00.00

0 FEET 5

Bioretention
Ramp A

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER U.2	

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V2

Point #	Station	Offset	Elevation
1	1678+70.35	51.61' RT	879.45
2	1678+70.20	76.61' RT	879.45
3	1678+75.20	51.67' RT	879.45
4	1678+74.85	76.66' RT	879.45
5	1678+88.83	52.11' RT	879.45
6	1678+87.90	77.09' RT	879.45
7	1678+96.99	52.56' RT	879.45
8	1678+95.72	77.52' RT	879.45
9	1679+54.53	58.04' RT	879.45
10	1679+52.05	82.92' RT	879.45

Hickman Road

Structure BR1
SW-507 (Modified)
Refer to Details on U.6 and M-Sheets.

PCC Flume.
Refer to Details on U.7

880

STA: 1678+65.83, 64.09' RT
Install Subdrain Cleanout Type B
FG Elev. = 880.50
FL Elev. = 875.91

Structure BR7
SW-512, Refer to M-Sheets
8" Subdrain FL. = 875.45

Concrete Pad

Grass Swale

Grass Berm

Ramp B Bioretention Cell

5'-4"

15'-0"

9'-0"

60'-0"

25'-0"

880

Ramp B1

Ramp B2

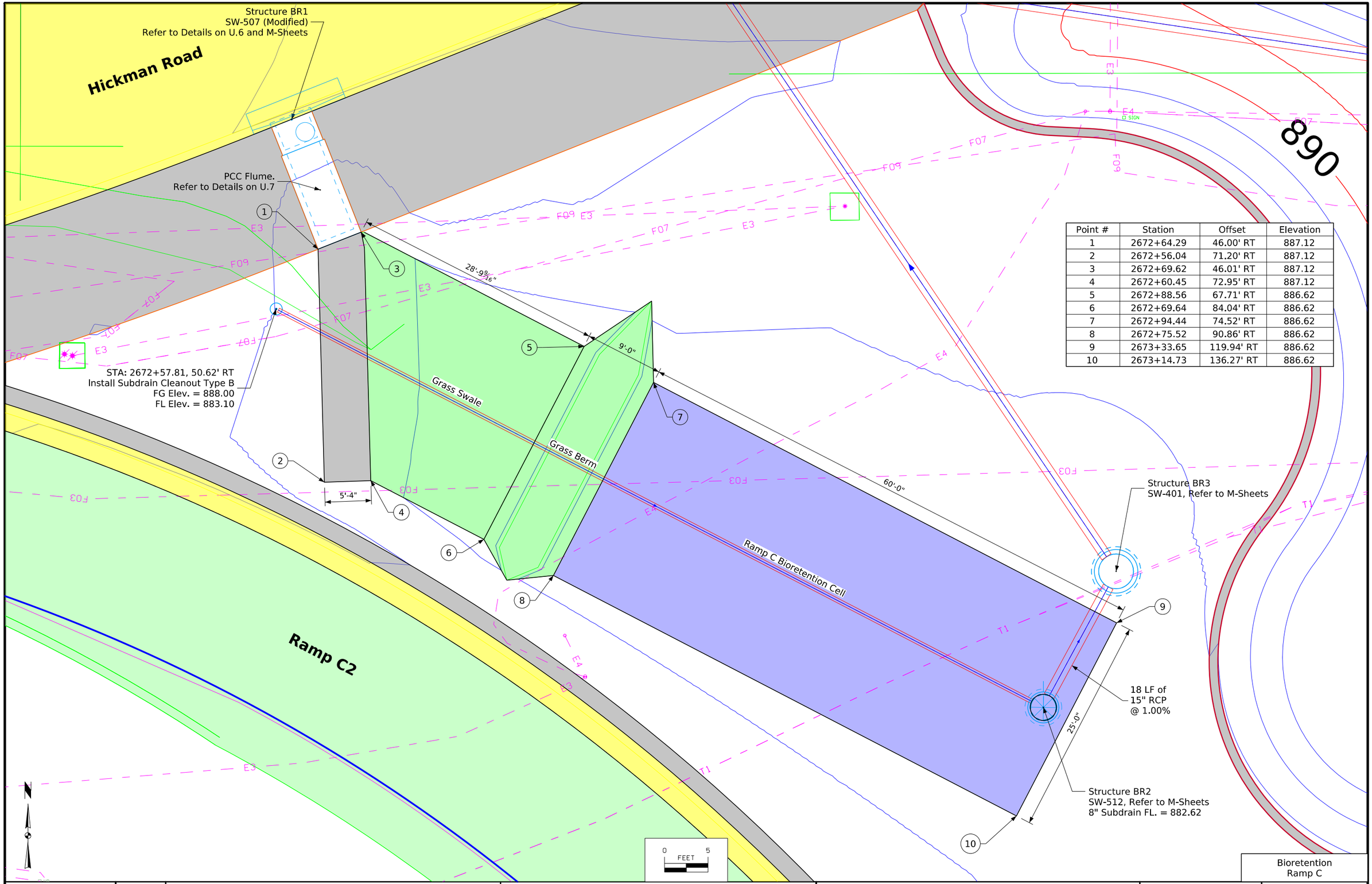
0 FEET 5

Bioretention
Ramp B

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER U.3	

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V2



Point #	Station	Offset	Elevation
1	2672+64.29	46.00' RT	887.12
2	2672+56.04	71.20' RT	887.12
3	2672+69.62	46.01' RT	887.12
4	2672+60.45	72.95' RT	887.12
5	2672+88.56	67.71' RT	886.62
6	2672+69.64	84.04' RT	886.62
7	2672+94.44	74.52' RT	886.62
8	2672+75.52	90.86' RT	886.62
9	2673+33.65	119.94' RT	886.62
10	2673+14.73	136.27' RT	886.62

Bioretention
Ramp C

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER U.4	

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V2

Ramp D1

2679+00

W3

F08

880

50.0'

Ramp D Bioretention Cell

Structure BR9
SW-512, Refer to M-Sheets
8" Subdrain FL. = 875.34

Structure BR10
SW-401, Refer to M-Sheets

Point #	Station	Offset	Elevation
1	2679+01.93	37.02' LT	879.64
2	2679+40.55	37.78' LT	879.64
3	2679+14.62	62.93' LT	879.34
4	2679+53.82	64.03' LT	879.34
5	2679+18.76	72.00' LT	879.34
6	2679+58.42	73.14' LT	879.34
7	2679+40.72	116.06' LT	879.34
8	2679+80.70	117.21' LT	879.34

9.0'

F09

F0

Grass Berm

30.0'

Grass Swale

679+00

40.0'

880

PCC Flume.
Refer to Details on U.7.

STA: 2679+18.19, 32.14' LT
Install Subdrain Cleanout Type B
FG Elev. = 880.60
FL Elev. = 875.80

Hickman Road

Structure BR9
SW-512, Refer to M-Sheets
8" Subdrain FL. = 875.34

F03

E4

1680+00

2680+00

680+00

0 5 FEET

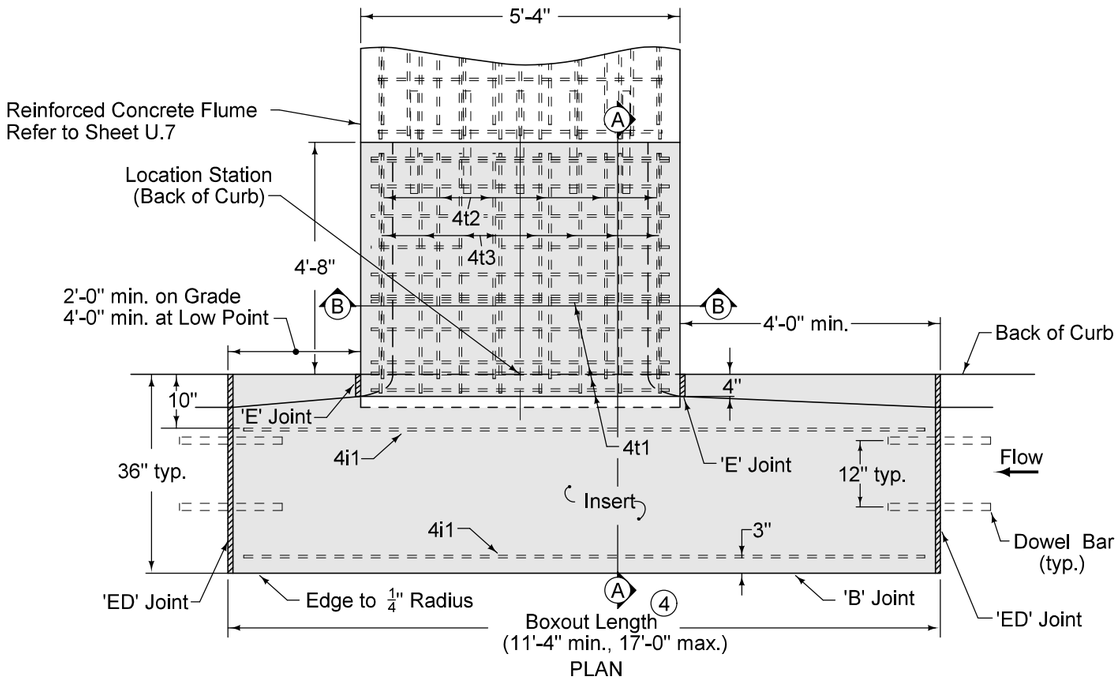
Bioretention
Ramp D

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER U.5	

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V2

REINFORCING BAR LIST						
Mark	Size	Location	Shape	Count	Length	Spacing
4t1	4	Top	———	13	5'-0"	See Plan
4t2	4	Top	———	6	4'-0"	12"
4t3	4	Top	———	8	4'-8"	8.5"
4t4	4	Top	⌊⌋	8	1'-4"	12"
4i1	4	Insert	———	4	Boxout Length minus 8"	See Plan



PLAN

GENERAL NOTES:

This detail illustrates the construction and installation of a curb intake for use with a concrete flume located behind the back of curb.

All reinforcing bars shall be ASTM A 615, Grade 60.

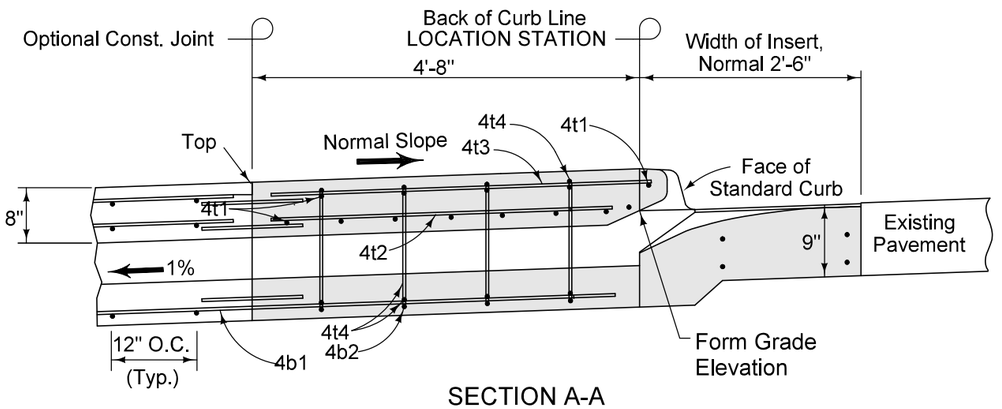
Precast concrete units with these dimensions may be utilized. The Contractor shall be responsible for any additional reinforcement necessary to prevent cracking during transportation and installation.

Dimensions shown hereon are for the construction of a 6 inch Standard Curb as part of the pavement. Modifications may be made to conform to other curb shapes and intake designs when necessary, subject to the approval of the Engineer.

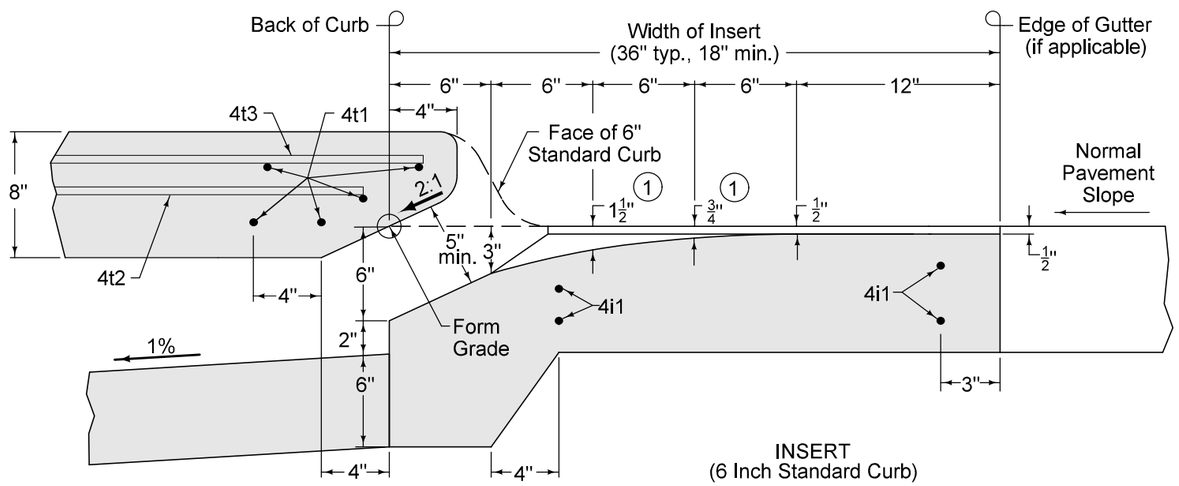
Insert area shall be included with the quantities for either concrete pavement or curb and gutter (only when curb and gutter is being added to existing pavement). Special shaping of insert area shall be included with price bid for intake. Concrete for insert area may be either 'Intake' or 'Pavement'. Finish of the insert area shall be the same as for pavement. Finish of the flume top or any exposed portion shall be as required for "Structural Concrete" in the current Specifications.

Joints in pavement adjacent to flume/intake shall be as shown on PV-101. Joint locations shall be as indicated except where specifically modified by other plan drawings or by the Engineer.

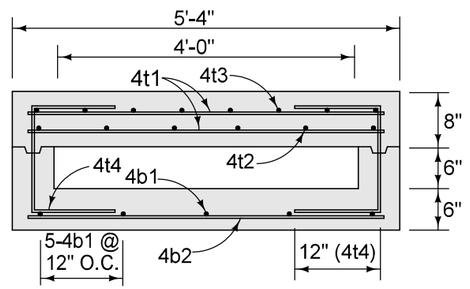
Price bid shall include:
A. All necessary excavation and backfill.
B. Satisfactory connection to new or existing storm sewer as per detail plans. Connections to precast units shall be grouted.
C. Furnishing all materials and constructing insert as detailed.



SECTION A-A



INSERT
(6 Inch Standard Curb)



SECTION B-B

SUDAS | IOWA DOT | Modified

FIGURE 6010.507 | STANDARD ROAD PLAN | SW-507

SHEET 1 of 2

SINGLE OPEN-THROAT CURB INTAKE TOP ONLY, WITH FLUME

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER U.6

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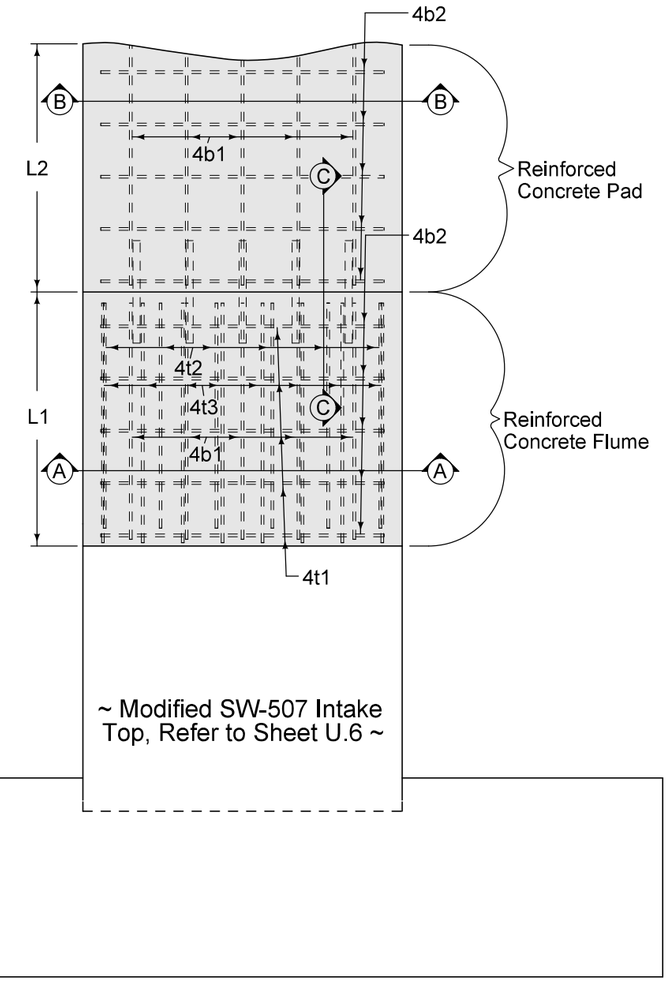
V2

REINFORCING BAR LIST - RAMP A						L1 = 11'-6" L2 = 25'-7"
Mark	Size	Location	Shape	Count	Length	Spacing
4b1	4	Flume	———	5	10'-10"	12"
4b2	4	Flume	———	11	5'-0"	12"
4t1	4	Flume	———	22	5'-0"	12"
4t2	4	Flume	———	6	10'-10"	12"
4t3	4	Flume	———	8	10'-10"	8.5"
4t4	4	Flume	⌊⌋	22	1'-4"	12"
4b1	4	Pad	———	5	VARIES	12"
4b2	4	Pad	———	24	5'-0"	12"

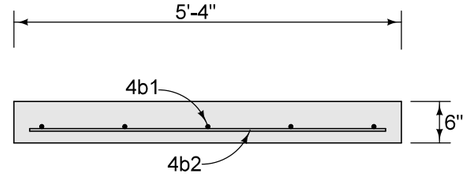
REINFORCING BAR LIST - RAMP B						L1 = 17'-2" L2 = 25'-0"
Mark	Size	Location	Shape	Count	Length	Spacing
4b1	4	Flume	———	5	16'-6"	12"
4b2	4	Flume	———	17	5'-0"	12"
4t1	4	Flume	———	34	5'-0"	12"
4t2	4	Flume	———	6	16'-6"	12"
4t3	4	Flume	———	8	16'-6"	8.5"
4t4	4	Flume	⌊⌋	34	1'-4"	12"
4b1	4	Pad	———	5	24'-4"	12"
4b2	4	Pad	———	25	5'-0"	12"

REINFORCING BAR LIST - RAMP C						L1 = 11'-6" L2 = 27'-8"
Mark	Size	Location	Shape	Count	Length	Spacing
4b1	4	Flume	———	5	10'-10"	12"
4b2	4	Flume	———	11	5'-0"	12"
4t1	4	Flume	———	22	5'-0"	12"
4t2	4	Flume	———	6	10'-10"	12"
4t3	4	Flume	———	8	10'-10"	8.5"
4t4	4	Flume	⌊⌋	22	1'-4"	12"
4b1	4	Pad	———	5	VARIES	12"
4b2	4	Pad	———	27	5'-0"	12"

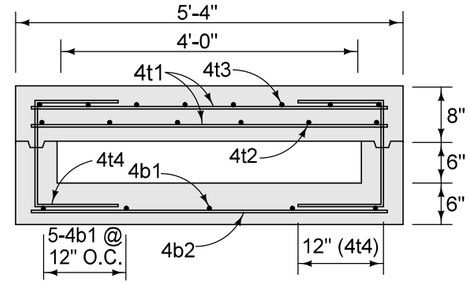
REINFORCING BAR LIST - RAMP D						L1 = 16'-6" L2 = 29'-5"
Mark	Size	Location	Shape	Count	Length	Spacing
4b1	4	Flume	———	5	15'-10"	12"
4b2	4	Flume	———	16	5'-0"	12"
4t1	4	Flume	———	32	5'-0"	12"
4t2	4	Flume	———	6	15'-10"	12"
4t3	4	Flume	———	8	15'-10"	8.5"
4t4	4	Flume	⌊⌋	32	1'-4"	12"
4b1	4	Pad	———	5	VARIES	12"
4b2	4	Pad	———	27	4'-2.5"	12"



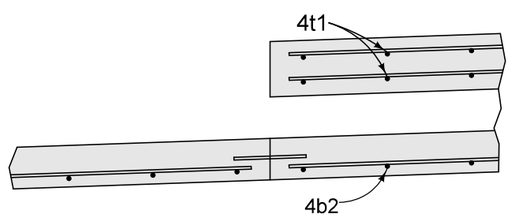
~ Modified SW-507 Intake Top, Refer to Sheet U.6 ~



SECTION B-B
REINFORCED CONCRETE PAD



SECTION A-A
REINFORCED CONCRETE FLUME

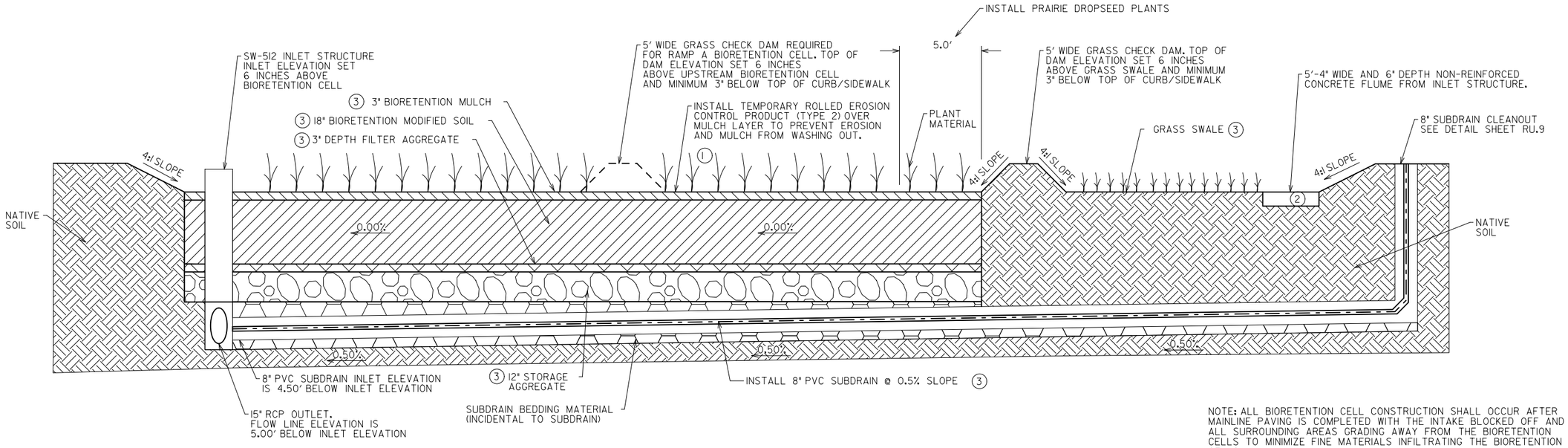


SECTION C-C

QUANTITIES		
Location	Concrete (CY)	Steel (LB)
Ramp A	5.5	431.9
Ramp B	6.8	576.1
Ramp C	5.7	448.9
Ramp D	7.1	563.4

Contract Items:
Reinforced Concrete Flume
Reinforced Concrete Pad

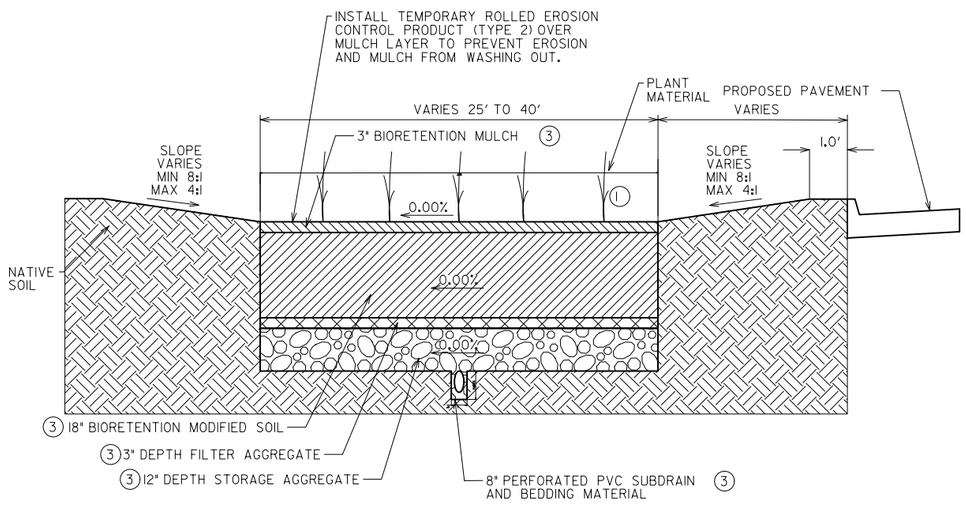
REINFORCED CONCRETE FLUME AND REINFORCED CONCRETE PAD FOR BIORETENTION



NOTE: ALL BIORETENTION CELL CONSTRUCTION SHALL OCCUR AFTER MAINLINE PAVING IS COMPLETED WITH THE INTAKE BLOCKED OFF AND ALL SURROUNDING AREAS GRADING AWAY FROM THE BIORETENTION CELLS TO MINIMIZE FINE MATERIALS INFILTRATING THE BIORETENTION CELLS.

1 RU.6 BIORETENTION CELL - TYPICAL LONGITUDINAL SECTION

NO SCALE



2 RU.6 BIORETENTION CELL - TYPICAL CROSS SECTION

NO SCALE

BIORETENTION CELL QUANTITIES

ITEM NO.	ITEM CODE	ITEM DESCRIPTION	UNIT	RAMP A BIO CELL QUANTITY	RAMP B BIO CELL QUANTITY	RAMP C BIO CELL QUANTITY	RAMP D BIO CELL QUANTITY	TOTAL QUANTITY
1	2601-2634100	MULCH	CY	12	14	14	19	59
2	2599-9999003	MODIFIED SOIL	CY	71	83	83	111	348
3	2599-9999020	FILTER AGGREGATE	TON	20	23	23	31	97
4	2599-9999020	STORAGE AGGREGATE	TON	76	91	91	120	378
5	2599-9999005	SUBDRAIN CLEANOUT, TYPE B	EA	1	1	1	1	4
6	2502-8213208	SUBDRAIN, PVC, STANDARD, PERFORATED, 8 INCH	LF	93	85	98	92	368
7	2599-9999003	CONCRETE FLUME	CY	3	3	3	3	12
8	2102-2710070	EXCAVATION, CLASS 10, ROADWAY AND BORROW	CY	142	170	170	222	704
9	2435-0251224	INTAKE, SW-512, 24 INCH	EA	1	1	0	0	2
10	2435-0251236	INTAKE, SW-512, 36 INCH	EA	0	0	1	1	2
11	2435-0250710	INTAKE, SW-507, MODIFIED	EA	1	1	1	1	4
12	2435-0140148	MANHOLE, STORM SWR, SW-401, 48 INCH	EA	0	0	1	1	2
13	2503-0114215	STORM SWR G-MAIN, TRENCHED, RCP 2000D, 15 INCH	LF	70	20	101	107	298
14	2599-9999018	ROLLED EROSION CONTROL PRODUCT	SY	142	167	170	222	701
15	2601-2636054	WILDFLOWER SEEDING	AC	0.03	0.03	0.03	0.05	0.14

NOTES:

1. SEED BOTTOM AND SIDE SLOPES WITH WILDFLOWER SEED MIX AND NURSE CROP. NURSE CROP TO BE AVENA SATIVA OATS, APPLY AT 32 LBS PER ACRE. APPLY WILDFLOWER SEED MIX AT A RATE OF 9.44 LBS PER ACRE: 307 PLS (PURE LIVE SEED) PER SQ. FT.
2. REFER TO BIORETENTION CELL INLET STRUCTURE DETAILS ON SHEET RU.3.
3. REFER TO SHEETS RR.10-RR.13 FOR ELEVATION AND GRADING INFORMATION.
4. REFER TO C-SHEET ESTIMATE REFERENCE INFORMATION FOR MATERIAL SPECIFICATIONS.

Soil Quality Restoration

Soil Quality Restoration

Soil Quality Restoration

Soil Quality Restoration

NW 111th Street

Hickman Road

Sta. 1691+38.83 NW 111th Street
Sta. 691+38.83 Hickman Road

Sta.697+79.80
30"RCPX110'

3686+00
3687+00
3688+00
3689+00
3690+00
3691+00
690+00
3692+00
3693+00
3694+00
3695+00
691+00
3696+00
692+00
3697+00
693+00
3698+00
694+00
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696+00
3701+00
697+00
3702+00
698+00
3703+00
699+00

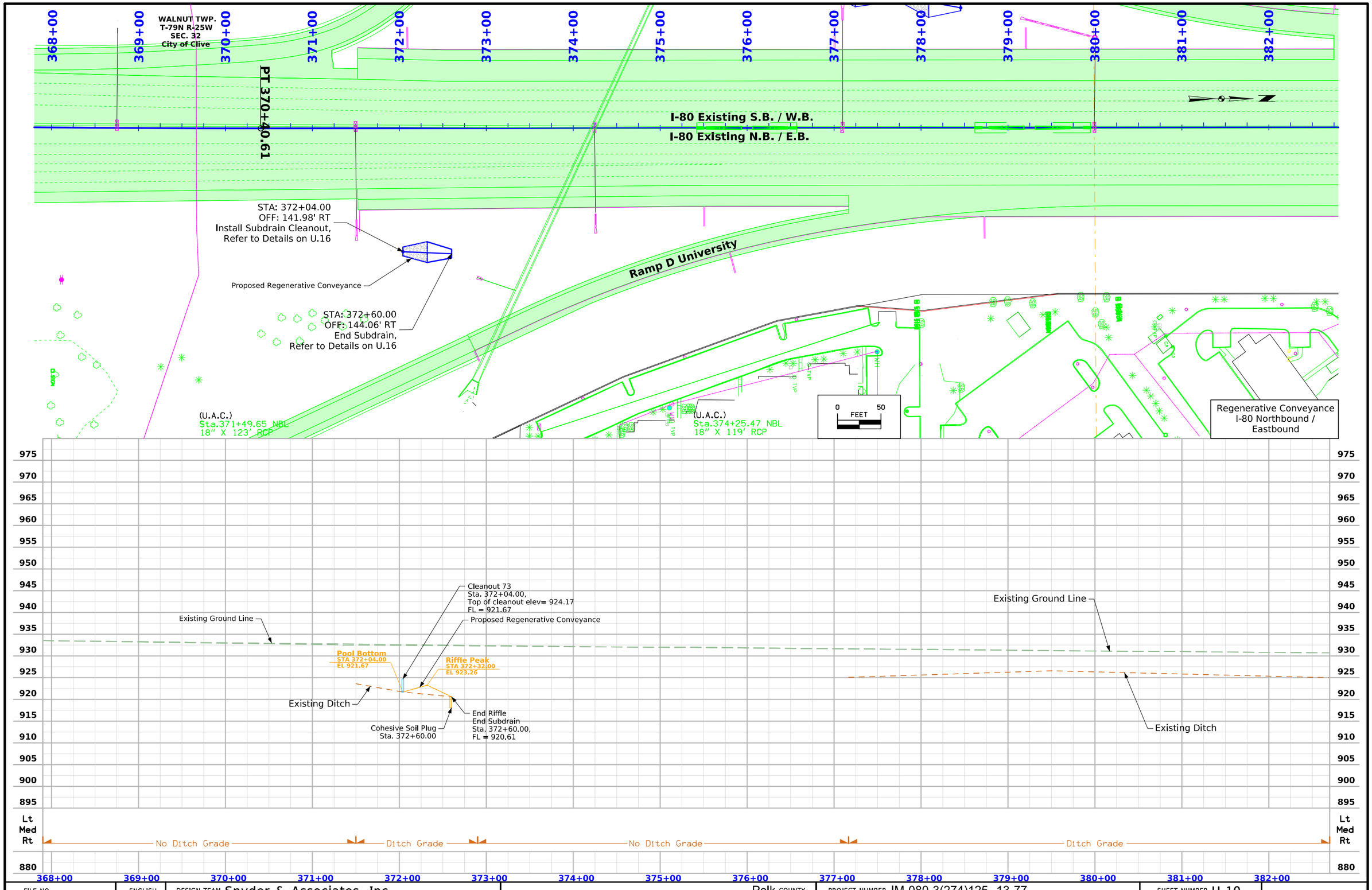
0 50 FEET

Soil Quality Restoration

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER U.9

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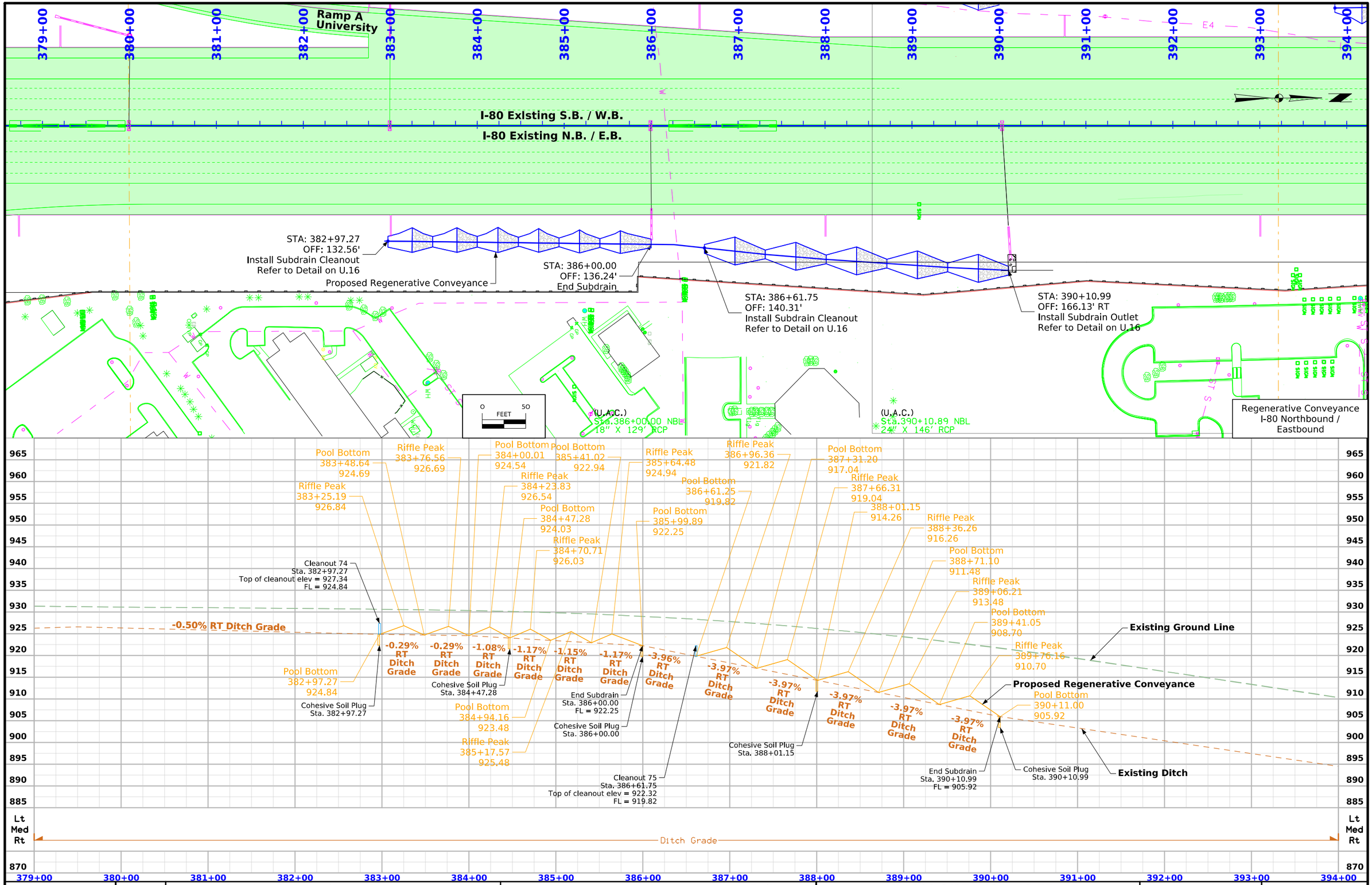
V2



FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER U.10

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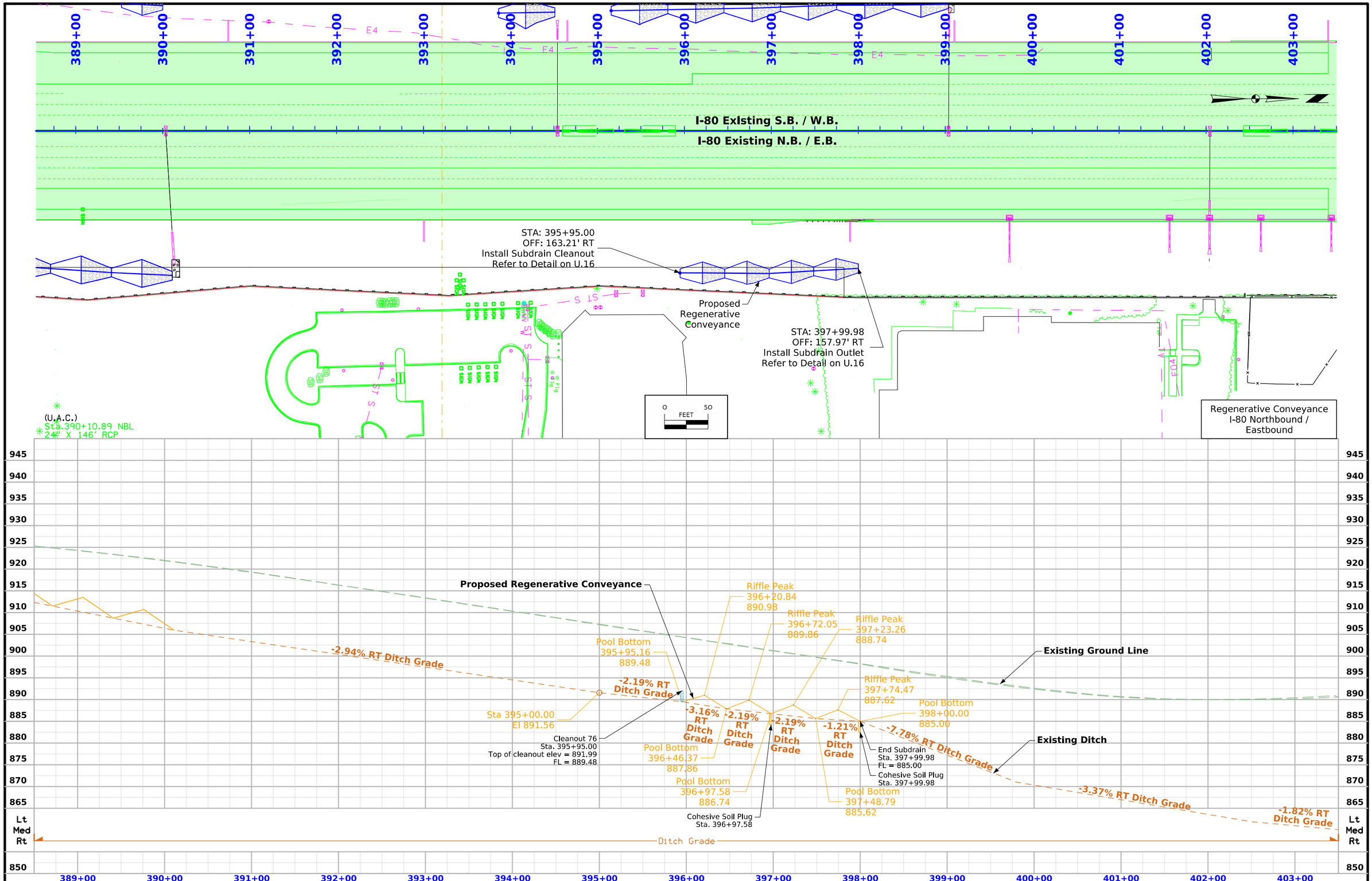
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FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER U.11

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V2



FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER U.12

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V2

WALNUT TWP.
T-79N R-25W
SEC. 32
City of Clive

Sta.374+23.29
5'X5' RCBC
(U.A.C.)

Sta.377+09.87 SBL
24" X 135' RCP
(U.A.C.)

Existing ROW

STA: 375+81.54
OFF: 196.18' LT
Install Subdrain Outlet,
Refer to Details on U.16

STA: 378+45.70
OFF: 137.92' LT
Install Subdrain Cleanout,
Refer to Details on U.16

Ramp A University

368+00 369+00 370+00 371+00 372+00 373+00 374+00 375+00 376+00 377+00 378+00 379+00 380+00 381+00 382+00

Proposed Regenerative Conveyance

I-80 Existing S.B. / W.B.

I-80 Existing N.B. / E.B.

Ramp D University

0 FEET 50

Regenerative Conveyance
I-80 Southbound /
Westbound

975 970 965 960 955 950 945 940 935 930 925 920 915 910 905 900 895 890

Existing Ground Line

Riffle Peak
STA 376+33.12
EL 914.51

Pool Bottom
STA 376+76.90
EL 912.51

Riffle Peak
STA 377+24.59
EL 919.36

Pool Bottom
STA 377+74.12
EL 917.36

Riffle Peak
STA 378+08.75
EL 922.72

Pool Bottom
STA 378+45.70
EL 920.48

Cleanout 77
Sta. 378+45.70
Top of cleanout elev = 922.98
FL = 920.48

Proposed Regenerative Conveyance

Riffle End
STA 375+81.55
EL 907.75

End Subdrain
Sta. 375+81.54
FL = 907.76

LT +25
912.95

-7.41% LT Ditch Grade

+11.89% LT
Ditch Grade

LT +10
899.25

+4.98% LT
Ditch Grade

LT +82
907.76

Cohesive Soil Plug
Sta. 375+81.54

+4.99% LT
Ditch Grade

LT +77
912.51

Existing Ditch

+4.36%
LT Ditch
Grade

LT +74
917.36

Cohesive Soil Plug
Sta. 377+74.12

+3.55% LT
Ditch Grade

LT +46
920.48

LT +00
922.41

Lt Med Rt

No Ditch Grade | Ditch Grade | No Ditch Grade

368+00 369+00 370+00 371+00 372+00 373+00 374+00 375+00 376+00 377+00 378+00 379+00 380+00 381+00 382+00

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER U.13

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V2

Proposed Regenerative Conveyance

STA: 390+00.00
OFF: 143.97'
Install Subdrain Outlet
Refer to Details on U.16

Proposed Regenerative Conveyance

Proposed ROW

STA: 389+52.62
OFF: 147.01'
Install Subdrain Cleanout
Refer to Details on U.16

I-80 Existing S.B. / W.B.

I-80 Existing N.B. / E.B.

STA: 393+86.00
OFF: 135.50'
Install Subdrain Cleanout
Refer to Details on U.16

STA: 394+51.00
OFF: 136.50'
Install Subdrain Outlet
Refer to Details on U.16

STA: 395+15.85
OFF: 138.25'
Install Subdrain Cleanout
Refer to Details on U.16

STA: 399+04.00
OFF: 145.96'
Install Subdrain Outlet
Refer to Details on U.16

Proposed Regenerative Conveyance

0 50 FEET

Regenerative Conveyance
I-80 Southbound /
Westbound

Existing Ground Line

Existing Ditch

Cleanout 78
Sta. 389+52.62
Top of cleanout elev = 915.57
FL = 913.07

End Subdrain
Sta. 390+00.00
FL = 912.84

-3.00% LT Ditch Grade

-0.50% LT Ditch Grade

-2.89% LT Ditch Grade

LT +00
912.34

Pool Bottom
390+00.00
912.84

Cohesive Soil Plug
Sta. 390+00.00

Riffle Peak
389+76.33
915.07

Pool Bottom
913.07

Pool Bottom
393+86.32
904.06

Cleanout 79
Sta. 393+86.00
Top of cleanout elev = 906.56
FL = 904.06

Riffle Peak
394+17.51
906.06

End Subdrain
Sta. 394+51.00
FL = 901.74

Pool Bottom
394+51.36
901.74

Pool Bottom
395+15.85
899.31

Riffle Peak
395+48.56
901.31

-3.56% LT Ditch Grade

-3.77% LT Ditch Grade

Cohesive Soil Plug
Sta. 393+86.32

Pool Bottom
395+80.92
896.87

Cleanout 79A
Sta. 395+15.85
Top of cleanout elev = 901.81
FL = 899.31

Cohesive Soil Plug
Sta. 395+15.85

-3.75% LT Ditch Grade

-3.77% LT Ditch Grade

-3.73% LT Ditch Grade

Riffle Peak
396+13.08
898.87

Pool Bottom
396+45.41
894.44

Riffle Peak
396+78.11
896.44

-3.78% LT Ditch Grade

-3.73% LT Ditch Grade

Pool Bottom
397+10.48
892.01

Riffle Peak
397+42.57
894.02

Cleanout 80
Sta. 397+70.93
Top of cleanout elev = 891.01
FL = 888.51

Pool Bottom
397+74.97
889.57

Cohesive Soil Plug
Sta. 397+10.48

-2.96% LT Ditch Grade

Riffle Peak
398+07.66
891.57

Pool Bottom
398+40.06
887.14

Riffle Peak
398+72.13
889.14

End Subdrain
Sta. 399+04.00
FL = 885.25

Cohesive Soil Plug
Sta. 399+04.00

-6.10% LT Ditch Grade

Pool Bottom
399+04.00
885.25

No Ditch Grade

LT +40
864.75

Ditch Grade

Lt Med Rt

945 940 935 930 925 920 915 910 905 900 895 890 885 880 875 870 865 855 850

388+00 389+00 390+00 391+00 392+00 393+00 394+00 395+00 396+00 397+00 398+00 399+00 400+00 401+00 402+00 403+00

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER U.14

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V2

WALNUT TWP.
T-79N R-25W
SEC. 32
City of Clive

Existing ROW

STA: 1375+09.29
OFF: 125.70' LT
Install Subdrain Cleanout
Refer to Details on U.16

Proposed Regenerative Conveyance

STA: 1377+82.51
OFF: 161.99' LT
Install Subdrain Outlet
Refer to Details on U.16

STA: 1378+40.01
OFF: 156.87' LT
Install Subdrain Outlet
Refer to Details on U.16

STA: 1379+84.78
OFF: 96.77' LT
Install Subdrain Cleanout
Refer to Details on U.16

Proposed Regenerative Conveyance

Ramp A University

I-80 Existing S.B. / W.B.

I-80 Existing N.B. / E.B.

0 FEET 50

Regenerative Conveyance
Ramp A University

Existing Ground Line

Cleanout 81
Sta. 1375+09.29
Top of cleanout elev = 908.52
FL = 906.02

Pool Bottom
STA 1374+54.99
EL 906.02

Riffle Peak
STA 1375+09.29
EL 908.52

Pool Bottom
STA 1375+78.03
EL 899.22

Riffle Peak
STA 1377+14.06
EL 901.72

Riffle End
STA 1377+82.51
EL 892.36

Riffle Peak
STA 1379+24.14
EL 909.47

Pool Bottom
STA 1379+84.78
EL 906.26

-5.00% LT Ditch Grade

-5.00% LT Ditch Grade

-5.00% LT Ditch Grade

+8.84% LT Ditch Grade

+8.85% LT Ditch Grade

Cohesive Soil Plug
Sta. 1374+54.99

Proposed Regenerative Conveyance

Cohesive Soil Plug
Sta. 1375+78.03

Cohesive Soil Plug
Sta. 1377+82.51

End Subdrain
Sta. 1377+82.51
FL = 892.36

End Subdrain
Sta. 1378+40.01
FL = 893.46

Cohesive Soil Plug
Sta. 1378+40.01

Cohesive Soil Plug
Sta. 1379+84.78

Cleanout 82
Sta. 1379+84.78
Top of cleanout elev = 908.76
FL = 906.26

No Ditch Grade

Ditch Grade

Lt Med Rt

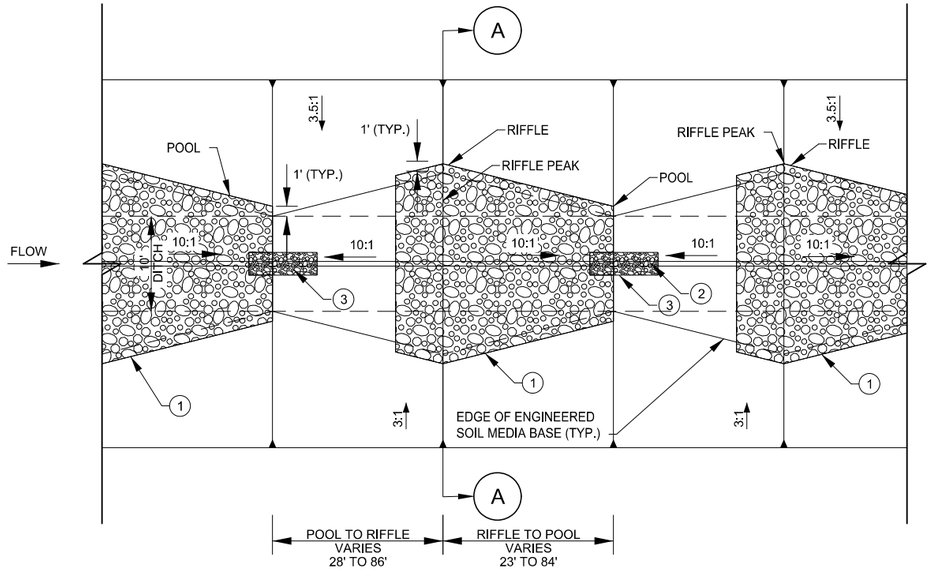
965 960 955 950 945 940 935 930 925 920 915 910 905 900 895 890 875 870

1368+00 1369+00 1370+00 1371+00 1372+00 1373+00 1374+00 1375+00 1376+00 1377+00 1378+00 1379+00 1380+00 1381+00 1382+00 1383+00

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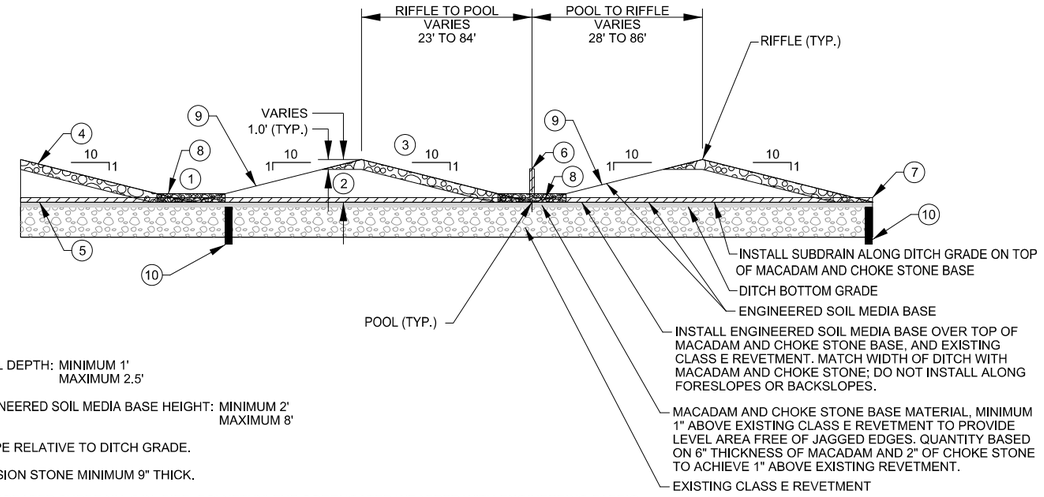
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V2



1. EROSION STONE; MINIMUM 9" THICK
2. PERFORATED SUBDRAIN, 6 IN. PIPE, POLYETHYLENE CORRUGATED WRAPPED WITH ENGINEERING FABRIC
3. SUBDRAIN POROUS BACKFILL ENVELOPE

PLAN (TYP.)

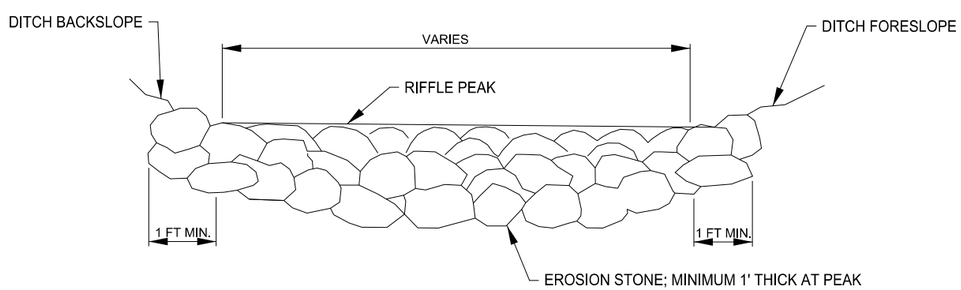


1. POOL DEPTH: MINIMUM 1'
   MAXIMUM 2.5'
2. ENGINEERED SOIL MEDIA BASE HEIGHT: MINIMUM 2'
   MAXIMUM 8'
3. SLOPE RELATIVE TO DITCH GRADE.
4. EROSION STONE MINIMUM 9" THICK.
5. PERFORATED SUBDRAIN, 6 IN. PIPE, POLYETHYLENE CORRUGATED WRAPPED WITH ENGINEERING FABRIC.
6. SUBDRAIN CLEANOUT, SEE SHEETS U.10 - U.15 FOR LOCATIONS AND TOP OF CLEANOUT ELEVATIONS. CLEANOUT SHALL CONFORM TO DETAILS BELOW.
7. SUBDRAIN OUTLET, PROVIDE 5' LENGTH OF SOLID WALL PVC AT TERMINAL END OF SUBDRAIN. INSTALL THREADED CAP AT PIPE OUTLET.
8. SUBDRAIN EROSION STONE BACKFILL ENVELOPE.
9. NATIVE GRASS SEEDING AND SLOPE PROTECTION, WOOD EXCELSIOR MAT (BIODEGRADABLE MAT).
10. COHESIVE SOIL PLUG, RELOCATE EXISTING CLASS E REVETMENT, INSTALL TO MINIMUM 6" BELOW BOTTOM OF REVETMENT. SEE PLAN & PROFILE SHEETS FOR LOCATIONS. TOP OF PLUG TO BE FLUSH WITH TOP OF REVETMENT. NOMINAL PLUG DIMENSIONS: 2' WIDE x 2.5' HEIGHT. LENGTH TO MATCH DITCH WIDTH PLUS 1' BEYOND EACH TOE OF SLOPE.

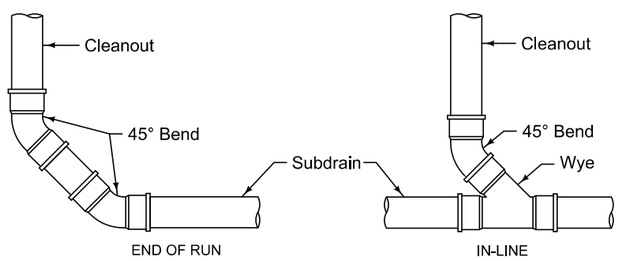
PROFILE (TYP.)

ESTIMATED QUANTITIES

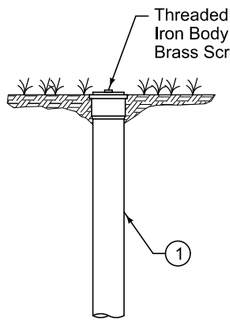
ITEM NO.	ITEM CODE	ITEM DESCRIPTION	UNIT	NB I-35 STA. 372+04 TO 372+60 QUANTITY	NB I-35 STA. 382+97 TO 390+11 QUANTITY	NB I-35 STA. 395+95 TO 398+00 QUANTITY	SB I-35 STA. 375+81.55 TO 378+45.70 QUANTITY	SB I-35 STA. 389+52.62 TO 390+00 QUANTITY	SB I-35 STA. 393+85.28 TO 399+04 QUANTITY	UNIVERSITY RAMP A STA. 1375+09 TO 1379+85 QUANTITY	TOTAL QUANTITY
Bid Item	2599-9999009	REGENERATIVE CONVEYANCE	LF	56	654	205	271	48	453	411	2,098
1	2599-9999003	ENGINEERED SOIL MEDIA RIFFLES	CY	35	527	107	733	38	424	2,709	4,576
2	2507-8029000	EROSION STONE	TON	36	514	136	277	49	366	586	1,964
3	2507-3250005	ENGINEERING FABRIC (SUBDRAIN WRAP)	SY	13	146	47	59	11	101	94	471
4	2599-9999009	SUBDRAIN, PE CORRUGATED PIPE, 6 INCH	LF	56	653	210	264	47	453	419	2,102
5	2599-9999005	SUBDRAIN CLEANOUT TYPE A-2	EA	1	2	1	1	1	2	2	10
6	2210-0475290	MACADAM STONE BASE	TON	17	206	62	108	14	137	121	665
7	2210-0475105	CHOKE STONE BASE	TON	6	69	21	36	5	46	41	224
8	2599-9999003	COHESIVE SOIL PLUG	CY	2	10	4	7	2	8	10	43



SECTION A-A THROUGH EROSION STONE



TYPE A CLEANOUT CONNECTIONS



TYPE A-2 CLEANOUT

NOTES:

1. PVC riser pipe; Match diameter of subdrain (8 inches maximum).

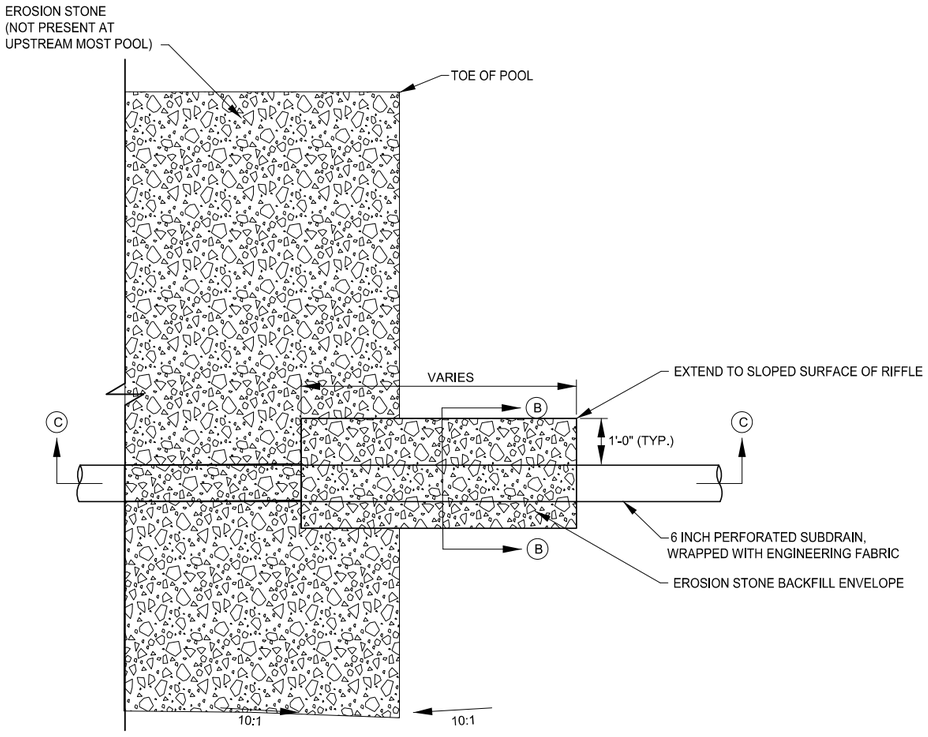
SUBDRAIN CLEANOUT

REGENERATIVE CONVEYANCE DETAILS

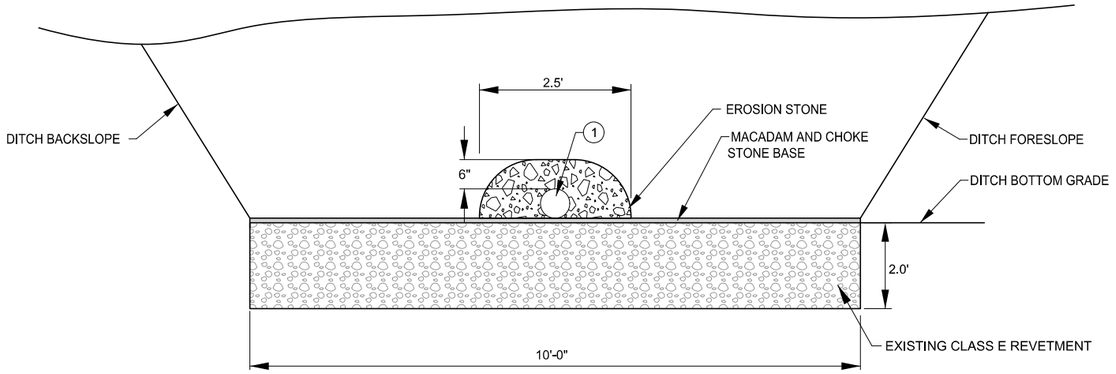
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V2

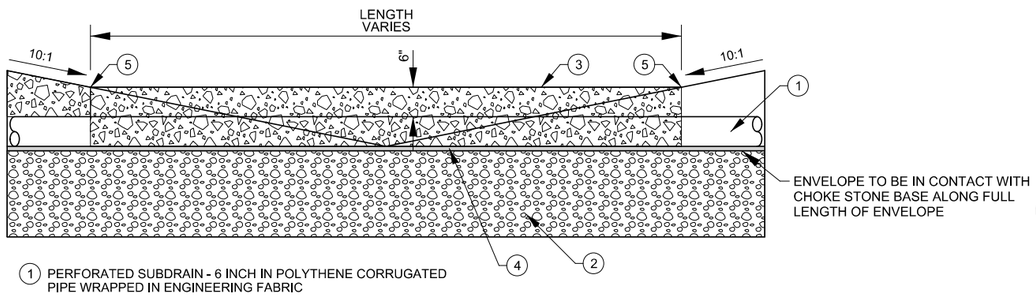


SUBDRAIN EROSION STONE ENVELOPE PLAN



(1) PERFORATED SUBDRAIN - 6 INCH IN POLYTHENE CORRUGATED PIPE WRAPPED IN ENGINEERING FABRIC

SECTION B-B THROUGH POROUS BACKFILL ENVELOPE



(1) PERFORATED SUBDRAIN - 6 INCH IN POLYTHENE CORRUGATED PIPE WRAPPED IN ENGINEERING FABRIC

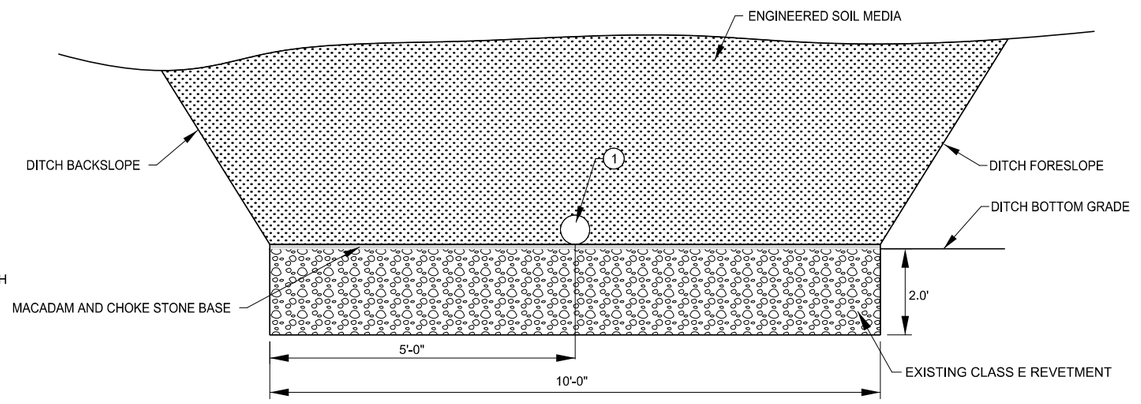
(2) EXISTING CLASS E REVETMENT

(3) EROSION STONE ENVELOPE

(4) MACADAM AND CHOKE STONE BASE MATERIAL

(5) EXTEND ENVELOPE TO SLOPED FACE OF RIFFLE

SECTION C-C THROUGH SUBDRAIN ENVELOPE



(1) PERFORATED SUBDRAIN - 6 INCH IN POLYTHENE CORRUGATED PIPE WRAPPED IN ENGINEERING FABRIC

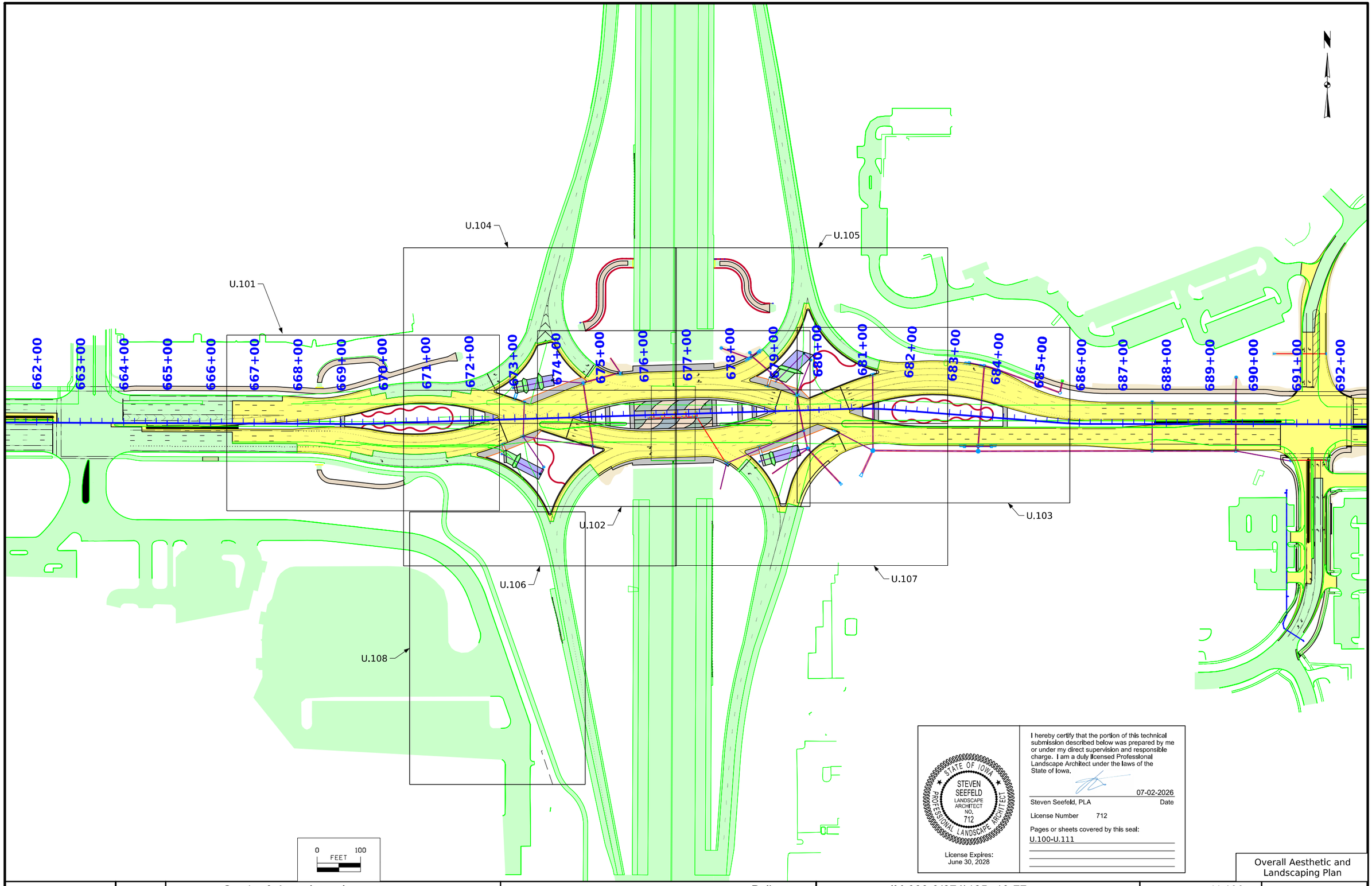
SUBDRAIN TYPICAL SECTION

REGENERATIVE CONVEYANCE DETAILS

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER U.17

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V2



STATE OF IOWA
STEVEN SEEFELD
LANDSCAPE ARCHITECT NO. 712
PROFESSIONAL LANDSCAPE ARCHITECT

License Expires:
June 30, 2028

I hereby certify that the portion of this technical submission described below was prepared by me or under my direct supervision and responsible charge. I am a duly licensed Professional Landscape Architect under the laws of the State of Iowa.

07-02-2026

Steven Seefeld, PLA — Date

License Number 712

Pages or sheets covered by this seal:
U.100-U.111

Overall Aesthetic and Landscaping Plan

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER U.100

3:36:43 PM 6/26/2026 ncarhoff pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\7708006015\Design_(274)_US6 GradePave\CADD_Files\Sheet_Files\SHT_77080274Z08_U100.dgn

V2

Tunnel Entry Gateway Feature.
Refer to U.200 Series Sheets
for Additional Information
and Details.

STA: 668+41.16
OFF: 83.72' LT

STA: 668+58.83
OFF: 83.79' LT

667+00
668+00
669+00
670+00
671+00
672+00

EOR
STA: 670+21.16
OFF: 25.77' LT
ELV: 894.77

EOR
STA: 670+68.84
OFF: 30.49' LT
ELV: 893.56

EOR
STA: 670+48.06
OFF: 29.05' LT
ELV: 894.05

EOR
STA: 669+97.97
OFF: 23.45' LT
ELV: 895.33

EOR
STA: 669+76.92
OFF: 21.20' LT
ELV: 895.90

EOR
STA: 669+46.48
OFF: 24.68' LT
ELV: 896.70

EOR
STA: 671+01.32
OFF: 30.41' LT
ELV: 892.70

EOR
STA: 671+22.09
OFF: 28.89' LT
ELV: 892.20

STA: 671+96.01
OFF: 28.02' LT
ELV: 890.43

STA: 672+05.93
OFF: 25.43' LT
ELV: 890.23

STA: 672+31.71
OFF: 17.63' LT
ELV: 889.65

STA: 669+08.28
OFF: 17.24' LT
ELV: 897.67

STA: 668+98.28
OFF: 17.41' LT
ELV: 897.88

STA: 668+98.28
OFF: 7.64' RT
ELV: 897.91

STA: 669+08.28
OFF: 5.93' RT
ELV: 897.71

EOR
STA: 669+47.11
OFF: 8.96' RT
ELV: 896.80

EOR
STA: 669+76.86
OFF: 5.44' RT
ELV: 895.98

EOR
STA: 669+97.90
OFF: 7.79' RT
ELV: 895.39

EOR
STA: 670+21.08
OFF: 10.20' RT
ELV: 894.81

EOR
STA: 670+68.74
OFF: 15.13' RT
ELV: 893.55

EOR
STA: 670+47.97
OFF: 13.60' RT
ELV: 894.07

EOR
STA: 671+22.00
OFF: 13.77' RT
ELV: 892.15

EOR
STA: 671+01.22
OFF: 15.20' RT
ELV: 892.66

STA: 671+94.73
OFF: 13.35' RT
ELV: 890.35

STA: 672+31.07
OFF: 2.94' RT
ELV: 889.56

STA: 672+04.82
OFF: 10.78' RT
ELV: 890.14

U.S. 6 / Hickman Road

STA: 668+41.17
OFF: 94.81' RT

STA: 668+58.84
OFF: 94.74' RT

Tunnel Entry Gateway Feature.
Refer to U.200 Series Sheets
for Additional Information
and Details.

0 20
FEET

1. PCC Maintenance Pad, Refer to Detail on U.110
2. PCC Splash Guard, Refer to Detail on U.110
3. PCC Landscape Edger, Refer to Detial on U.110
4. Planter Bed, Refer to Detail on U.111.

Aesthetics and Landscaping Plan

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER U.101

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V2

1. PCC Maintenance Pad, Refer to Detail on U.110.
4. Planter Bed, Refer to Detail on U.111.
5. Refer to Tied Project IM-080-3(277)125--13-777 For Traffic Signal and Lighting Details (Typ.).
7. Refer to U.109 for Geometric Layout of Median.
8. Architectural Column. Refer to U.200 Series Sheets for Details and Additional Information.
9. Drainage System for Architectural Columns. Refer to M-Sheets.

STA: 674+96.25
OFF: 120.98' LT
ELV: 884.35

STA: 674+93.30
OFF: 116.94' LT
ELV: 884.25

STA: 675+75.09
OFF: 114.00' LT
ELV: 883.54

STA: 675+74.69
OFF: 102.59' LT
ELV: 883.32

186.61'

11.42'

10.18'

STA: 677+61.70
OFF: 114.00' LT
ELV: 881.76

STA: 677+61.39
OFF: 103.83' LT
ELV: 881.57

STA: 678+34.77
OFF: 124.01' LT
ELV: 880.40

STA: 678+37.03
OFF: 119.59' LT
ELV: 880.30

674+00
675+00
676+00
677+00
678+00
679+00

STA: 676+15.04
OFF: 0.06' LT

STA: 676+39.73
OFF: 0.03' LT

STA: 676+64.41
OFF: 0.00' LT

STA: 676+89.10
OFF: 0.03' RT

STA: 677+13.78
OFF: 0.05' RT

18 VM
51 CK
20 RR

STA: 675+67.33
OFF: 108.49' RT
ELV: 883.06

STA: 675+67.16
OFF: 114.00' RT
ELV: 883.17

U.S. 6 / Hickman Road

STA: 677+54.00
OFF: 106.65' RT
ELV: 881.50

STA: 677+53.77
OFF: 114.00' RT
ELV: 881.67

5.5'

186.61'

I-80/35 SB/WB

I-80/35 NB/EB

STA: 675+19.66
OFF: 119.03' RT
ELV: 882.92

STA: 675+21.81
OFF: 123.54' RT
ELV: 882.82

STA: 677+90.19
OFF: 119.77' RT
ELV: 880.23

STA: 677+86.99
OFF: 123.62' RT
ELV: 880.35

0 20 FEET

Aesthetics and Landscaping Plan

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER U.102

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V2

680+00
681+00
682+00
683+00
684+00
685+00

EOR
STA: 683+03.98
OFF: 24.91' LT
ELV: 877.82

EOR
STA: 682+75.97
OFF: 27.00' LT
ELV: 878.01

EOR
STA: 682+22.40
OFF: 24.18' LT
ELV: 878.36

EOR
STA: 682+55.15
OFF: 26.92' LT
ELV: 878.14

EOR
STA: 683+27.29
OFF: 23.15' LT
ELV: 877.67

EOR
STA: 683+49.45
OFF: 20.33' LT
ELV: 877.52

EOR
STA: 683+75.80
OFF: 18.37' LT
ELV: 877.35

EOR
STA: 684+21.87
OFF: 25.64' LT
ELV: 877.21

STA: 684+31.93
OFF: 25.32' LT
ELV: 877.23

STA: 681+36.24
OFF: 15.48' LT
ELV: 879.17

STA: 681+26.46
OFF: 12.31' LT
ELV: 879.30

EOR
STA: 682+01.86
OFF: 20.80' LT
ELV: 878.49

EOR
STA: 681+00.76
OFF: 3.38' LT
ELV: 879.56

37 RR

30.9'
26.0'
10'-0"
2.0'
10.0'

R24.0'
R20.0'
R28.0'
R24.0'
R18.0'
R15.0'

EOR
STA: 681+00.72
OFF: 17.42' RT
ELV: 879.36

STA: 681+27.37
OFF: 24.69' RT
ELV: 879.12

STA: 681+37.71
OFF: 26.89' RT
ELV: 879.00

PCC Landscape Edger,
Refer to U-Sheets

EOR
STA: 682+05.78
OFF: 21.68' RT
ELV: 878.36

EOR
STA: 682+26.59
OFF: 21.25' RT
ELV: 878.24

EOR
STA: 682+79.16
OFF: 15.54' RT
ELV: 877.92

EOR
STA: 683+28.02
OFF: 8.09' RT
ELV: 877.62

EOR
STA: 683+04.87
OFF: 11.03' RT
ELV: 877.76

EOR
STA: 683+75.15
OFF: 5.05' RT
ELV: 877.33

EOR
STA: 683+48.73
OFF: 5.55' RT
ELV: 877.50

STA: 684+35.49
OFF: 19.90' RT
ELV: 877.16

EOR
STA: 684+25.37
OFF: 18.68' RT
ELV: 877.15

EOR
STA: 682+51.43
OFF: 32.20' RT
ELV: 877.60

EOR
STA: 682+58.56
OFF: 18.57' RT
ELV: 878.04

U.S. 6 / Hickman Road

880
875
870
865

0 20
FEET

1. PCC Maintenance Pad, Refer to Detail on U.110.
2. PCC Splash Guard, Refer to Detail on U.110.
3. PCC Landscape Edger, Refer to Detial on U.110.
4. Planter Bed, Refer to Detail on U.111.
5. Refer to Tied Project IM-080-3(277)125--13-777 For Traffic Signal and Lighting Details (Typ.).

Aesthetics and Landscaping Plan

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER U.103

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V2

1. PCC Maintenance Pad, Refer to Detail on U.110.
2. PCC Splash Guard, Refer to Detail on U.110.
3. PCC Landscape Edger, Refer to Detial on U.110.
4. Planter Bed, Refer to Detail on U.111.
5. Refer to Tied Project IM-080-3(277)125--13-777 For Traffic Signal and Lighting Details (Typ.).
6. Install 72-In. Height Chain Link Fence. Provide Square Top PCC Footing at Posts to Match Landscape Edger. Refer to Detail on U.111.

TREE LAYOUT		
POINT	STATION	OFFSET
MS-1	673+40.24	99.49' LT
MS-2	673+57.18	115.99' LT
MS-3	673+84.02	109.74' LT

Tunnel Entry Getaway Feature. Refer to U.200 Series Sheets for Additional Information and Details.

STA: 675+82.64
OFF: 359.40' LT

STA: 675+82.08
OFF: 341.74' LT

STA: 675+83.67
OFF: 339.52' LT
ELV: 898.37

EOR
STA: 675+58.86
OFF: 340.39' LT
ELV: 898.14

EOR
STA: 675+18.53
OFF: 302.76' LT
ELV: 900.03

EOR
STA: 675+16.87
OFF: 255.21' LT
ELV: 901.96

EOR
STA: 674+68.70
OFF: 197.68' LT
ELV: 904.60

EOR
STA: 674+55.06
OFF: 91.03' LT
ELV: 885.06

EOR
STA: 673+86.52
OFF: 173.61' LT
ELV: 888.04

EOR
STA: 673+95.40
OFF: 169.13' LT
ELV: 887.72

EOR
STA: 673+61.05
OFF: 168.36' LT
ELV: 888.67

EOR
STA: 673+55.33
OFF: 163.73' LT
ELV: 888.90

EOR
STA: 673+00.55
OFF: 93.95' LT
ELV: 888.63

EOR
STA: 672+59.02
OFF: 68.45' LT
ELV: 888.80

STA: 672+58.86
OFF: 63.25' LT
ELV: 888.75

STA: 673+17.22
OFF: 42.03' LT
ELV: 887.79

MS-1
MS-2
MS-3
3 - MS

R8.0'
R8.0'
R177.0'
R226.0'
R226.0'
2.0'
2.0'
1.0'
150'

671+00
672+00
673+00
674+00
675+00
676+00

885
890

I-80/35 SB/WB

U.S. 6 / Hickman Road

0 FEET 20

Aesthetics and Landscaping Plan

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER U.104

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V2

1. PCC Maintenance Pad, Refer to Detail on U.110.
2. PCC Splash Guard, Refer to Detail on U.110.
3. PCC Landscape Edger, Refer to Detial on U.110.
4. Planter Bed, Refer to Detail on U.111.
5. Refer to Tied Project IM-080-3(277)125--13-777 For Traffic Signal and Lighting Details (Typ.).
6. Install 72-In. Height Chain Link Fence. Provide Square Top PCC Footing at Posts to Match Landscape Edger. Refer to Detail on U.111.

TREE LAYOUT		
POINT	STATION	OFFSET
MD-1	679+71.12	54.19' LT
MD-2	679+86.54	56.50' LT
MD-3	680+09.74	115.07' LT
MD-4	680+16.73	99.81' LT
MD-5	680+26.71	117.46' LT
MD-6	680+55.15	96.06' LT
MD-7	680+67.63	85.72' LT
MD-8	680+81.52	91.76' LT

STA: 677+70.90
OFF: 352.86' LT

Tunnel Entry Getaway Feature. Refer to U.200 Series Sheets For Additional Information And Details.

STA: 677+70.36
OFF: 335.21' LT

EOR
STA: 677+93.38
OFF: 332.23' LT
ELV: 898.17

EOR
STA: 677+94.13
OFF: 353.72' LT
ELV: 898.34

R60.5'

R39.0'

EOR
STA: 678+52.49
OFF: 291.16' LT
ELV: 900.02

EOR
STA: 678+52.42
OFF: 289.19' LT
ELV: 900.07

EOR
STA: 678+31.00
OFF: 291.90' LT
ELV: 899.97

EOR
STA: 678+30.93
OFF: 289.94' LT
ELV: 900.04

R39.0'

EOR
STA: 678+84.15
OFF: 249.09' LT
ELV: 902.63

R61.0'

EOR
STA: 678+89.78
OFF: 226.86' LT
ELV: 903.06

EOR
STA: 679+83.75
OFF: 229.35' LT
ELV: 884.21

3.8'

EOR
STA: 679+79.93
OFF: 229.27' LT
ELV: 884.31

2.0'

R241.0'

R223.0'

EOR
STA: 680+21.27
OFF: 133.90' LT
ELV: 879.58

2.0'

EOR
STA: 679+74.22
OFF: 61.76' LT
ELV: 880.56

R46.0'

EOR
STA: 680+46.30
OFF: 113.78' LT
ELV: 879.29

EOR
STA: 680+80.42
OFF: 98.38' LT
ELV: 879.92

MD-5

R22.0'

MD-6

R33.0'

MD-3

3 - MD

3 - MD

MD-4

EOR
STA: 679+95.44
OFF: 101.77' LT
ELV: 880.07

MD-8

MD-7

R545.0'

R26.5'

MD-1

R16.0'

MD-2

2 - MD

EOR
STA: 681+29.91
OFF: 86.99' LT
ELV: 877.85

4.6'

EOR
STA: 681+30.03
OFF: 82.38' LT
ELV: 877.76

EOR
STA: 678+59.15
OFF: 81.45' LT
ELV: 881.18

15.0'

EOR
STA: 679+60.10
OFF: 46.99' LT
ELV: 880.77

EOR
STA: 679+77.56
OFF: 28.54' LT
ELV: 880.28

677+00
678+00
679+00
680+00
681+00
682+00

880

I-80/35 NB/EB

U.S. 6 / Hickman Road

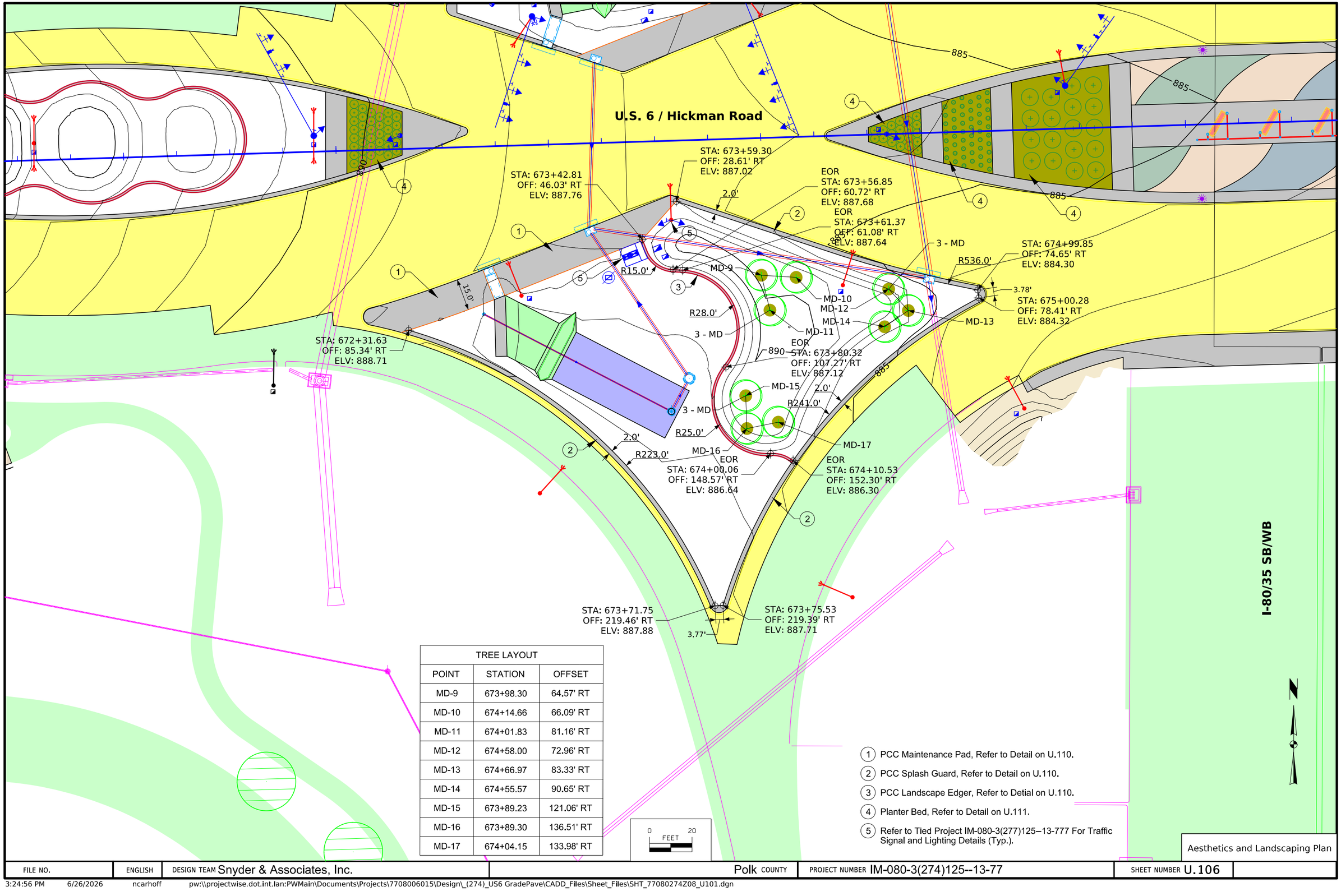
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Aesthetics and Landscaping Plan

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER U.105

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V2



TREE LAYOUT		
POINT	STATION	OFFSET
MD-9	673+98.30	64.57' RT
MD-10	674+14.66	66.09' RT
MD-11	674+01.83	81.16' RT
MD-12	674+58.00	72.96' RT
MD-13	674+66.97	83.33' RT
MD-14	674+55.57	90.65' RT
MD-15	673+89.23	121.06' RT
MD-16	673+89.30	136.51' RT
MD-17	674+04.15	133.98' RT

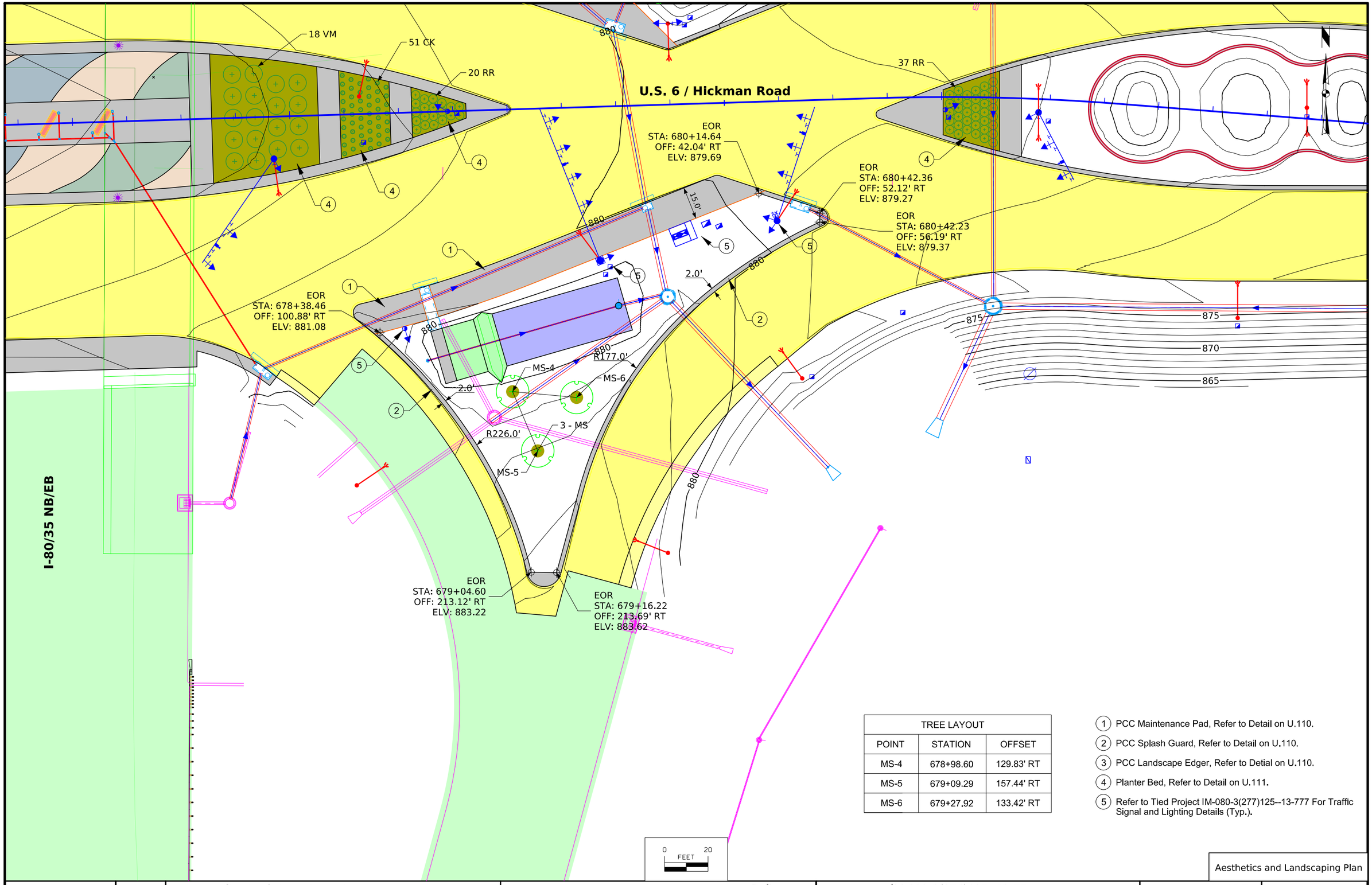
1. PCC Maintenance Pad, Refer to Detail on U.110.
2. PCC Splash Guard, Refer to Detail on U.110.
3. PCC Landscape Edger, Refer to Detial on U.110.
4. Planter Bed, Refer to Detail on U.111.
5. Refer to Tied Project IM-080-3(277)125–13-777 For Traffic Signal and Lighting Details (Typ.).

Aesthetics and Landscaping Plan

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER U.106

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V2



TREE LAYOUT		
POINT	STATION	OFFSET
MS-4	678+98.60	129.83' RT
MS-5	679+09.29	157.44' RT
MS-6	679+27.92	133.42' RT

1. PCC Maintenance Pad, Refer to Detail on U.110.
2. PCC Splash Guard, Refer to Detail on U.110.
3. PCC Landscape Edger, Refer to Detial on U.110.
4. Planter Bed, Refer to Detail on U.111.
5. Refer to Tied Project IM-080-3(277)125--13-777 For Traffic Signal and Lighting Details (Typ.).

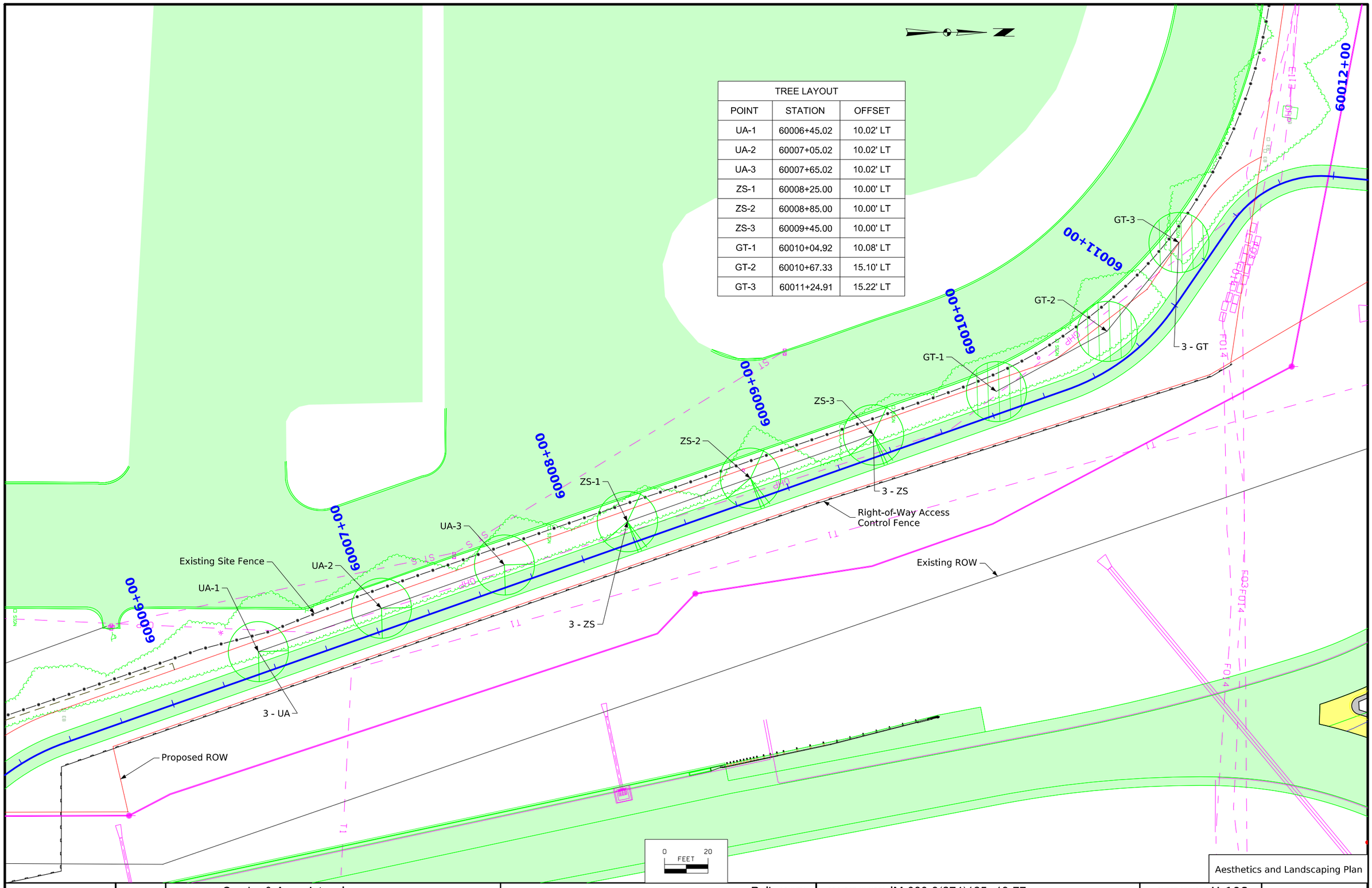
Aesthetics and Landscaping Plan

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER U.107	

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V2

TREE LAYOUT		
POINT	STATION	OFFSET
UA-1	60006+45.02	10.02' LT
UA-2	60007+05.02	10.02' LT
UA-3	60007+65.02	10.02' LT
ZS-1	60008+25.00	10.00' LT
ZS-2	60008+85.00	10.00' LT
ZS-3	60009+45.00	10.00' LT
GT-1	60010+04.92	10.08' LT
GT-2	60010+67.33	15.10' LT
GT-3	60011+24.91	15.22' LT



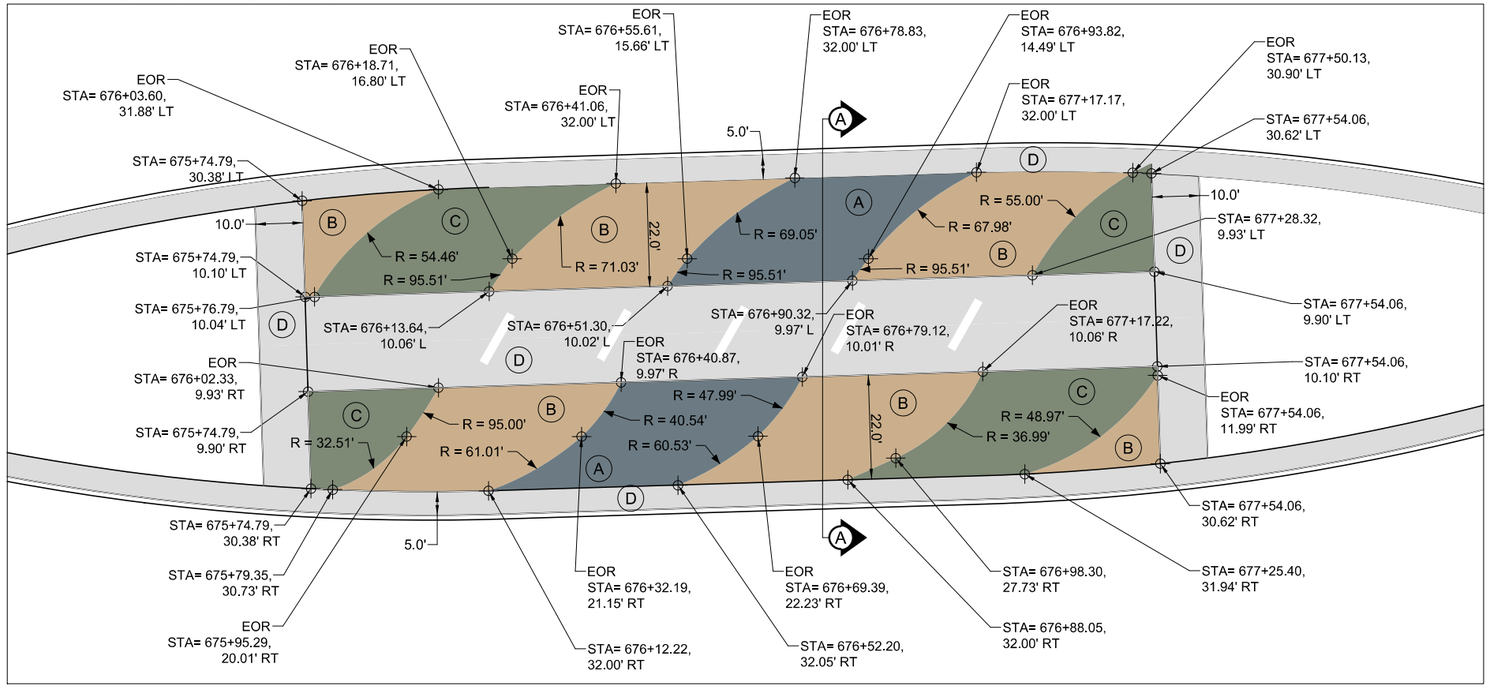
Aesthetics and Landscaping Plan

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER U.108

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V2

CONCRETE PATTERN LAYOUT

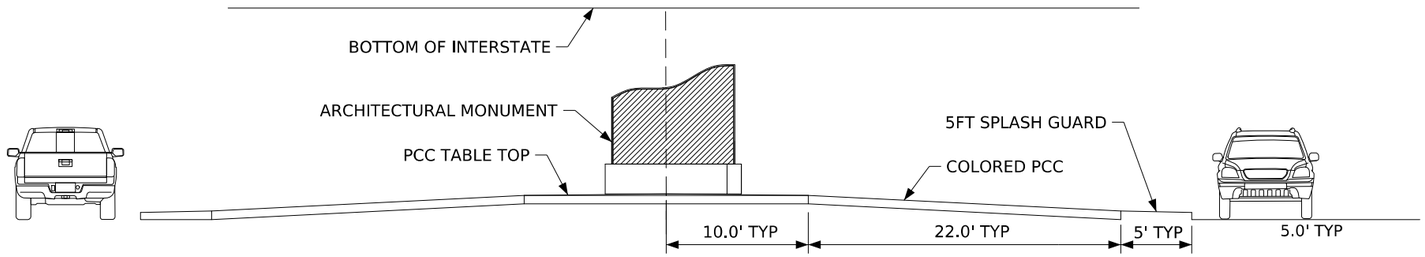


COLORED CONCRETE
COLOR CONCRETE ADMIXTURE
FEDERAL STANDARD COLOR NUMBER

A: BLUE- FEDERAL STANDARD COLOR #35177
B: TAN- FEDERAL STANDARD COLOR #12648
C: GREEN- FEDERAL STANDARD COLOR #14260
D: STANDARD CONCRETE, NO COLOR (FOR REFERENCE)

NOTES:

1. REFER TO L-SHEETS FOR JOINTING DETAILS.



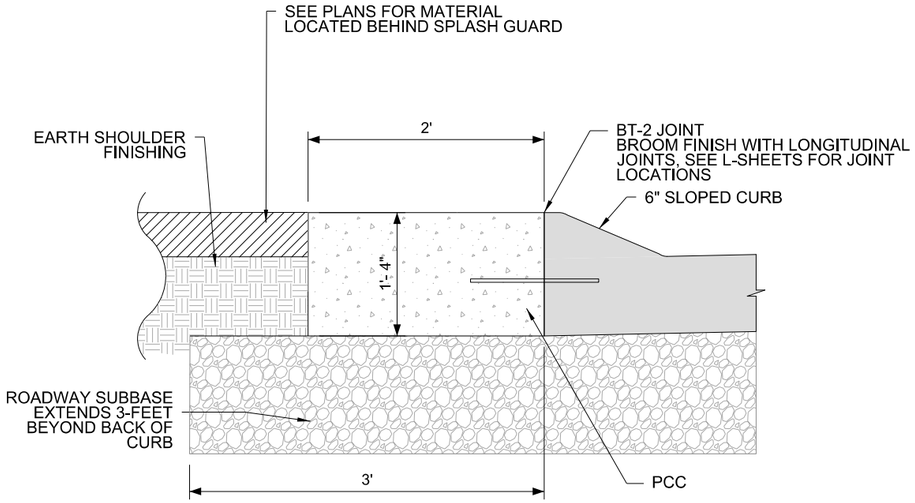
SECTION A-A

LANDSCAPING DETAILS

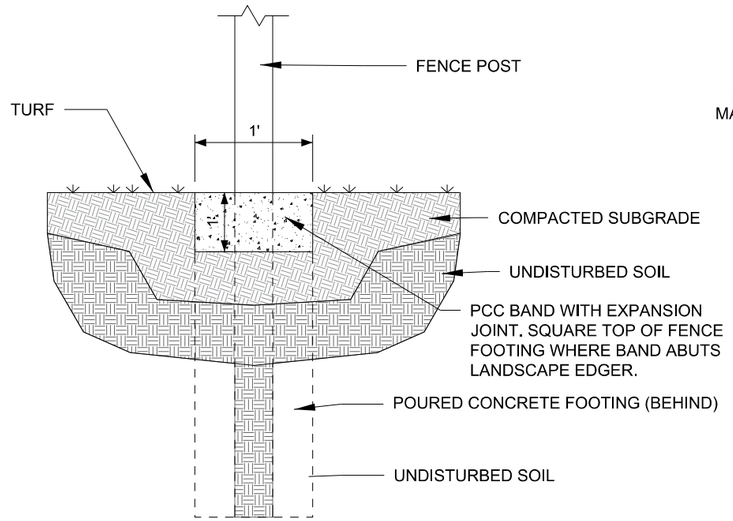
FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER U.109

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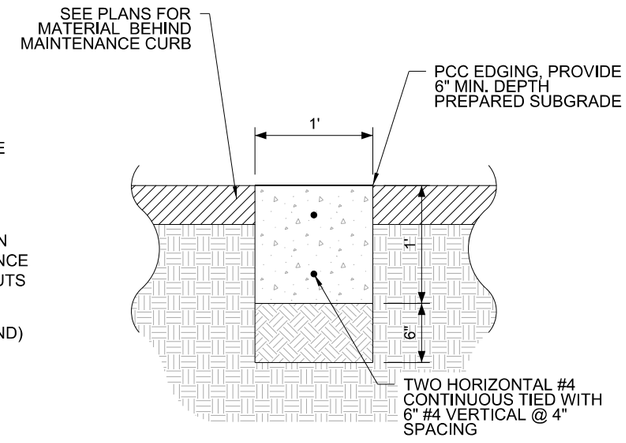
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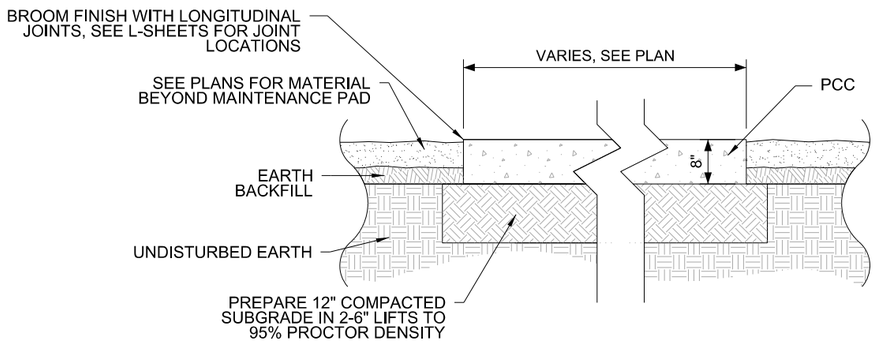
PCC SPLASH GUARD



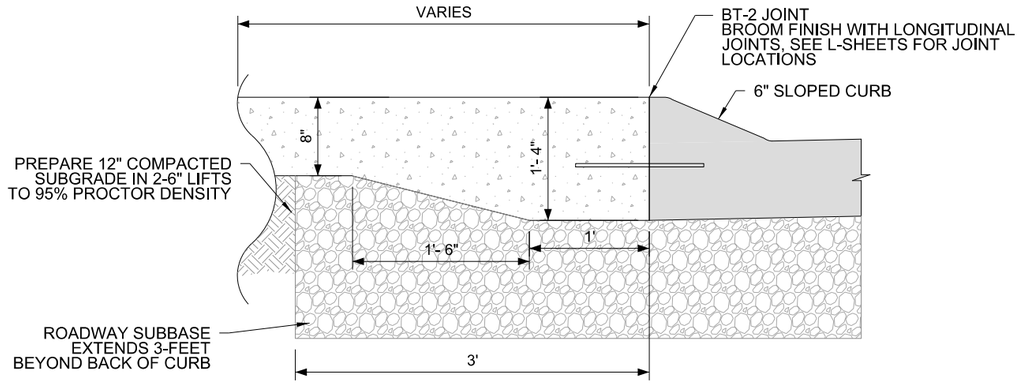
FENCE POST DETAIL



PCC LANDSCAPE EDGER



IN-BETWEEN MEDIAN CURBS



AT BACK OF CURB

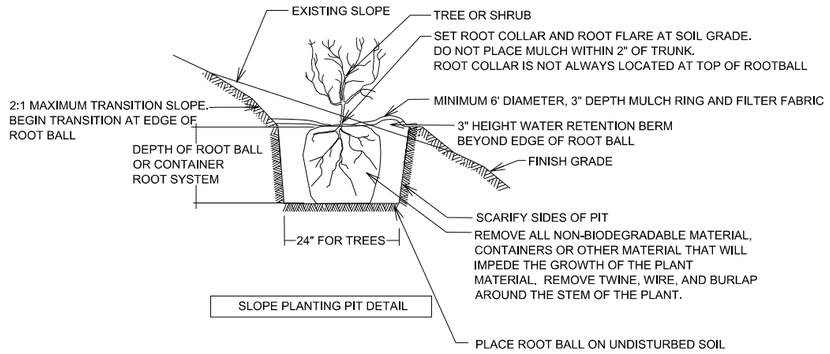
PCC MAINTENANCE PAD

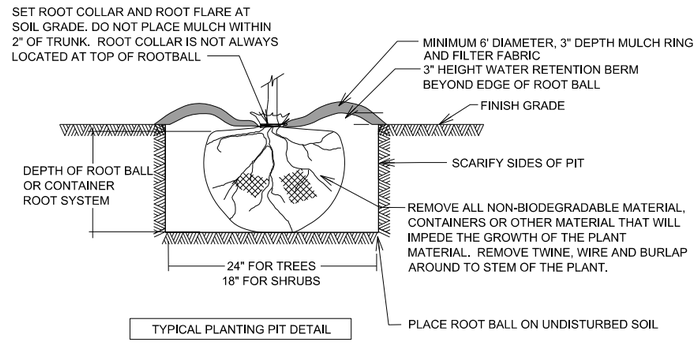
LANDSCAPING DETAILS

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER U.110

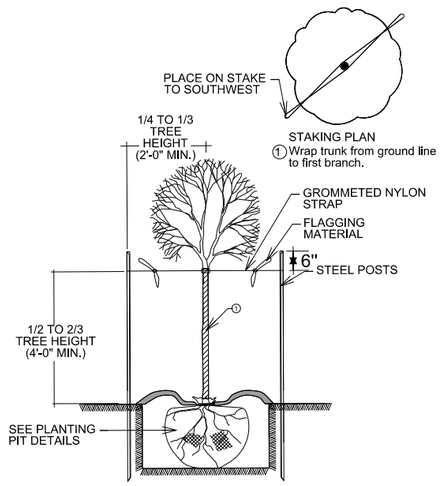
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V2

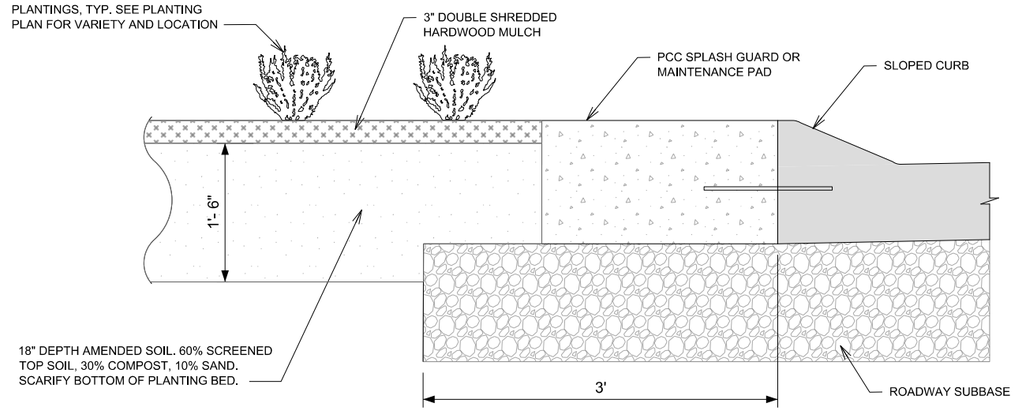




PLANTING PIT DETAIL



DECIDUOUS TREE STAKING DETAIL



PLANTER BED DETAIL

PLANTING PLAN GENERAL NOTES

1. CONTRACTOR IS RESPONSIBLE FOR REPAIRS OF DAMAGE TO ANY EXISTING IMPROVEMENTS DURING CONSTRUCTION, SUCH AS, BUT NOT LIMITED TO, PAVEMENT, CURBS, ETC. REPAIRS SHALL BE EQUAL TO OR BETTER THAN EXISTING CONDITIONS
2. CONTRACTOR IS RESPONSIBLE FOR CONDUCTING A SITE VISIT PRIOR TO STARTING CONSTRUCTION ACTIVITIES TO BECOME FAMILIAR WITH EXISTING FEATURES AND CONDITIONS.
3. THE CONTRACTOR IS RESPONSIBLE FOR CLEANING DIRT AND DEBRIS FROM NEIGHBORING STREETS, DRIVEWAYS, AND SIDEWALKS CAUSED BY CONSTRUCTION ACTIVITIES IN A TIMELY MANNER. THE CONTRACTOR SHALL KEEP THE PROJECT SITE NEAT AND ORDERLY AT ALL TIMES WHILE CONSTRUCTION IS IN PROGRESS.

PLANT SCHEDULE					
CODE	QTY.	BOTANICAL NAME	COMMON NAME	SIZE	TYPE
ORNAMENTAL TREES					
MD	17	Malus x 'Donald Wyman'	Donald Wyman Crabapple	1.5" Cal.	B & B
MS	6	Malus x 'Snowdrift'	Snowdrift Crabapple	1.5" Cal.	B & B
OVERSTORY TREES					
ZS	3	Zelkova Serrata 'Green Vase'	Japanese Zelkova	2" Cal.	B & B
GT	3	Gleditsia triacanthos f. inermis "Skycole"	Skyline Honey Locust	2" Cal.	B & B
UA	3	Ulmus americana 'Princeton'	Princeton Elm	2" Cal	B & B
SHRUBS					
RR	114	Rosa rugosa	Rugosa Rose	3 Gal.	Pot
VM	36	Viburnum acerifolium	Mapleleav Viburnum	3 Gal.	Pot
GRASSES					
CK	102	Calamagrostis x acutiflora 'Karl Foerster'	Karl Foerster Feather Reed Grass	1 Gal.	Pot

LANDSCAPING DETAILS

SPECIFICATIONS:

DESIGN: AASHTO LRFD 7TH EDITION, SERIES OF 2014.
CONSTRUCTIONS: IOWA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR HIGHWAY AND BRIDGE CONSTRUCTION, SERIES 2015, PLUS APPLICABLE GENERAL SUPPLEMENTAL SPECIFICATIONS, DEVELOPMENTAL SPECIFICATIONS, SUPPLEMENTAL SPECIFICATIONS AND SPECIAL PROVISIONS SHALL APPLY TO CONSTRUCTION WORK ON THIS PROJECT.

WELDING: ASSCHTO/AWS D1.5 AS SPECIFIED AND MODIFIED BY THE STANDARD SPECIFICATIONS AND CURRENT SUPPLEMENTAL SPECIFICATIONS.

DESIGN STRESS:

DESIGN STRESSES FOR THE FOLLOWING MATERIALS ARE IN ACCORDANVE WITH THE AASHTO LRFD 7TH EDITION, SERIES OF 2014 INTERIM.

REINFORCING STEEL IN ACCORDANCE WITH SECTION 5, GRADE 60.

CONCRETE IN ACCORDANCE WITH SECTION 5, f'c = 4000 psi.

STRUCTURAL STEEL IN ACCORDANCE WITH SECTION 6, ASTM A709, GRADE 50 W AND GRADE 36.

GENERAL NOTES:

THIS DESIGN IS FOR NEW CONSTRUCTION OF ARCHITECTUAL COLUMNS, ARCHITECTURAL MONUMENTS AND THE TUNNEL ENTRY GATEWAY FEATURES.

ALL EXISTING UTILITIES, FACILITIES, AND ADJACENT STRUCTURES SHALL BE PROJECTED BY THE CONTRACTOR THROUGHOUT CONSTRUCTION OF THE PROJECT. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY THEIR FAILURE TO EXACTLY LOCATE ANY AND ALL UTILITIES AND FAILURE TO PROTECT ADJACENT FACILITIES OR STRUCTURES. IF OTHER UTILITIES ARE DISCOVERED IN THE AREA OR ARE NOT INSTALLED AS SHOWN, THOSE UTILITIES ARE TO BE PROTECTED AND THE ENGINEER NOTIFIED IMMEDIATELY.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSPECTING THE SITE OF THE PROPOSED WORK TO UNSURE THAT THEY ARE FAMILIAR WITH THE REPAIR CONCEPTS SHOWN IN THE PLANS, AND EXISTING SITE CONDITIONS RELATIVE TO THE CONTRACT.

THE CONTRACTOR SHALL CALL IOWA ONE CALL AT LEAST 48 HOURS PRIOR TO BEGINNING WORK. ONE CALL: 1-800-292-8989

THE CONTRACTOR SHALL BE AWARE THAT UNFORESEEN CONDITIONS MAY DEVELOP IN REPAIR PROJECTS TO THIS TYPE, WHICH MAY REQUIRE ADDITIONAL COMPUTATION WORK BY THE ENGINEER. IF SUCH CONDITIONSARISE, THE ENGINEER SHALL BE AFFORDED ADEQUATE TIME TO PERFORM THE COMPUTATION WORK AND DEVELOP ANY REVISED CONCUPTS AS REQUIRED. DURING THIS TIME, THE CONTRACTOR SHALL ADJUST THEIR WORK EFFORT TO OTHER ITEMS OF THEIR CONSTRUCTION SCHEDULE WITHOUT CLAIM FOR DELAY OF THE PROJECT.

ALL DIMENSIONS AND DETAILS SHOWN ON THESE PLANS PERTINENT TO NEW CONSTRUCTION AND FABRICATION SHALL BE VERIFIED IN FIELD BY THE CONTRACTOR BEFORE STARTING FABRICATION OR CONSTRUCTION. FIELD VERIFIED DIMENSIONS SHALL BE INDICATED ON THE SHOP DRAWINGS BY THE CONTRACTOR.

THE CONTRACTOR IS ENCOURAGED TO VERIFY EXISTING STRUCTURE DIMENSIONS REQUIRED FOR COMLETION OF WORK AS EARLY AS POSSIBLE, PRIOR TO COMMENCEMENT OF WORK, IN ORDER TO PRODUCE SHOP DRAWINGS.

ALL DIMENSIONS AND DETAILS SHOWN ON THESE PLANS PERTINENT TO NEW CONSTRUCTION AND FABRICATION SHALL BE VERIFIED IN FIELD BY THE CONTRACTOR BEFORE STARTING FABRICATION OR CONSTRUCTION. FIELD VERIFIED DIMENSIONS SHALL BE INDICATED ON THE SHOP DRAWINGS BY THE CONTRACTOR.

THE CONTRACTOR IS ENCOURAGED TO VERIFY EXISTING STRUCTURE DIMENSIONS REQUIRED FOR COMLETION OF WORK AS EARLY AS POSSIBLE, PRIOR TO COMMENCEMENT OF WORK, IN ORDER TO PRODUCE SHOP DRAWINGS.

ALL AREAS DESTROYED OR DAMAGED BY CONTRACTOR'S WORK INCLUDING SIDEWALKS, PARKING LOTS, SOD, AND GRASSWAYS ARE TO BE RESTORED TO ORIGINAL CONDITION (AS DOCUMENTED PRIOR TO THE START OF CONSTRUCTION) BY CONTRACTOR AT THEIR EXPENSE. ALL GRADES ADJACENT TO BRIDGE, INCLUDING STAGING AREAS, DISTURBED BY CONSTRUCTION ARE TO BE RECONSTRUCTED TO ORIGINAL GRADE ELEVATIONS, ANY DAMAGE TO EXISTING GRASS SHALL BE REPAIRED WITH INSTALLATION OF NEW SOD. IF DAMAGED, SIDEWALKS ARE TO BE RECONSTRUCTED TO FULL PANEL LENGTHS AND WIDTHS IN ACCORDANCE WITH THE STANDARDS AND SPECIFICATIONS. THIS WORK SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT.

ASSUMED - ALLOWEBLE BEARING PRESSURE = 1,600 PSF

THE CONTRACTOR SHALL VERIFY THE SOIL AT THE SITE MEETS THE DESIGN
BEARING PRESSURE PRIOR TO PLACING ANY RETAINING WALL FOOTING CONCRETE.

ALL COARSE AGGREGATE FOR STRUCTURAL CONCRETE SHALL BE CLASS 3 CRUSHED LIMESTONE.

ALL WORKING DRAWINGS, INCLUDING SHOP DRAWINGS AND FALSEWORK DRAWINGS, SHALL BE SUBMITTED ACCORDING TO ARTICLE 1105.03 OF THE STANDARD SPECIFICATIONS.

THE CITY AND UTILITY COMPANIES WHOSE FACILITIES ARE SHOWN ON THE PLANS OR KNOWN TO BE WITHIN THE CONSTRUCTION LIMITS SHALL BE NOTIFIED BY THE RETAINING WALL CONTRACTOR OF THE CONSTRUCTION STARTING DATE.

THESE PLANS LABEL ALL REINFORCING STEEL WITH ENGLISH NOTATION ('5a1 IS 5/8 INCH DIAMETER BAR'). ENGLISH REINFORCING STEEL RECEIVED IN THE FIELD MAY DISPLAY THE FOLLOWING "BAR DESIGNATION". THE "BAR DESIGNATION" IS THE STAMPED IMPRESSION ON THE REINFORCING BARS, AND IS EQUIVALENT TO THE BAR DIAMETER IN MILLIMETERS.

ENGLISH SIZE	3	4	5	6	7	8	9	10	11
BAR DESIGNATION	10	13	16	19	22	25	29	32	36

SIDES OF THE FOOTINGS SHALL BE FORMED TO ENSURE CORRECT LINE AND GRADE. ALL EXPOSED CORNERS OF 90 DEGREES OR SHARPER SHALL BE FILLETED WITH A 3#4" DRESSED AND BEVELED STRIP, UNLESS OTHERWISE SHOWN. ALL CONSTRUCTION JOINTS SHALL BE FORMED WITH BEVELED PLANKS.

MINIMUM CLEAR DISTANCE FROM FACE OF CONCRETE TO NEAR REINFORCING BAR IS TO BE 2" UNLESS OTHERWISE NOTED OR SHOWN. MINIMUM CLEAR DISTANCE FROM EARTH TO NEAR REINFORCING BAR IS TO BE 3".

ALL RIENFORCING STEEL SHALL BE SECURELY WIRED IN PLACE BEFORE CONCRETE IS PLACED. BAR CHAIRS SPACED NOT MORE THAN 3'-0 CENTERS IN EITHER DIRECTION SHALL BE USED TO SUPPORT ALL REINFORCING IN ACCORDANCE WITH SECTION 2404 OF THE STANDARD SPECIFICATIONS.

CONSTRUCTIONS JOINT KEYWAYS ARE TO BE FORMED WITH BEVELED 2'x' 6's, EXCEPT AS NOTED.

KEYWAY DIMENSIONS SHOWN ON THE PLANS ARE BASED ON NOMINAL DIMENSIONS UNLESS STATED OTHERWISE. IN ADDITION, THE BEVEL USED ON THE KEYWAY SHALL BE LIMITED TO A MAXIMUM OF 10 DEGREES FROM VERTICAL.

WEATHERING STEEL NOTES:

ALL STRUCTURAL STEEL, EXCEPT AS NOTED, SHALL CONFORM TO ASTM A709 GRADE 50W. THE MINIMUM YIELD POINT FOR GRADE 50W STRUCTURAL STEEL IS 50 KSI FOR PLATES 4" AND UNDER IN THICKNESS, AND ALL STRUCTURAL SHAPES. THE GRADE 50W STEEL IS A WEATHERING STEEL AND IS TO REMAIN UNPAINTED, EXCEPT AS NOTED.

ALL STRUCTURAL STEEL PIECES COMPRISING THE ABUTMENT AND PIER BEARINGS SHALL COMPLY WITH THE REQUIREMENTS AS STATED IN THE NOTES IN THIS SECTION.

BOLTS FOR USE WITH WEATHERING STEEL SHALL BE A325 TYPE III WITH A563 GRADE DH3 NUTS AND F436 TYPE III WASHERS.

THE STEEL SHALL BE KEPT FREE OF OIL, GREASE, DIRT, CRAYON OR CHALK MARKS, CONCRETE SPATTER AND ANY OTHER FOREIGN MATTER THAT MAY AFFECT THE NATURAL OXIDATION OF THE STEEL. ANY FOREIGN MATTER REMAINING ON THE STEEL AFTER COMPLETION OF BRIDGE CONSTRUCTION SHALL BE REMOVED BY THE BRIDGE CONTRACTOR AS DIRECTED BY THE ENGINEER. THE RESULTANT SURFACE SHALL BE FREE OF ALL VISIBLE RESIDUES. ALL COSTS ASSOCIATED WITH CLEANING STEEL SURFACES SHALL BE BORNE BY THE BRIDGE CONTRACTOR.

SEAL MATERIAL FOR CAULKING SHALL BE NEUTRAL CURE AND NON SAG SILICONE. TWO PRODUCTS MEETING THESE CRITERIA ARE DOW 888, CSL342 JOINT SEALANT AND CRAFCO ROAD SAVER SILICON.

FILL THICKNESSES SHOWN ON PLANS ARE BASED ON NOMINAL BEAM DIMENSION. THESE THICKNESSES ARE TO BE VERIFIED OR ADJUSTED DURING FABRICATION TO SECURE A CLOSE FIT. EACH FILL PLATE SHALL FIT TO THE NEAREST 1/16" IN THICKNESS AND SINGLE PLATES ARE REQUIRED AT EACH FILL LOCATION.

THE DESIGN DRAWINGS INDICATE AWS PREQUALIFIED WELDED JOINTS, AND UNLESS OTHERWISE NOTED THE DESIGN JOINT DETAILS ARE FOR MANUAL SHIELDED METAL-ARC WELDING. ALTERNATE JOINT DETAILS MAY BE SUBMITTED FOR APPROVAL.

THE CONTRACTOR SHALL SUBMITTAL FOR APPROVAL SHOP DRAWINGS OF THE STEEL ARTWORK SHOWING LAYOUT, MATERIAL TO BE USED AND PROVISIONS FOR ERECTION AND INSTALLATION.

SHOP DRAWING SUBMITTALS

SHOP DRAWINGS SHALL BE SUBMMITED FOR THE FOLLOWING ITEMS SHOWN IN THE TABLE BELOW. (NOTE ADDITIONAL SHOP DRAWINGS MAY BE REQUIRED IN ACCORDANCE WITH THE ARTICLE 1105.03 OF THE STANDARD SPECIFICATIONS)

SUBMITTAL REQUIREMENTS FOR SHOP DRAWINGS SHOULD BE IN ACCORDANCE WITH ARTICLE 1105.03 OF THE STANDARD SPECIFICATIONS FOR HIGHWAY AND BRIDGE SONCTRUCTIONS OF THE IOWA DEPARTMENT OF TRANSPORTATION.

ALL SHOP DRAWINGS AND MATERIAL CERTIFICATIONS SHALL BE SUBMITTED TO THE PROJECT ENGINEER.

1	REINFORCING STEEL
2	LIMESTONE VENEER
3	PRECAST CAP
4	STRUCTURAL STEEL ARTWORK

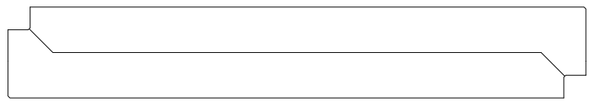
LICENSED PROFESSIONAL ENGINEER
TYLER R. VON WEIHE
P25351
IOWA

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

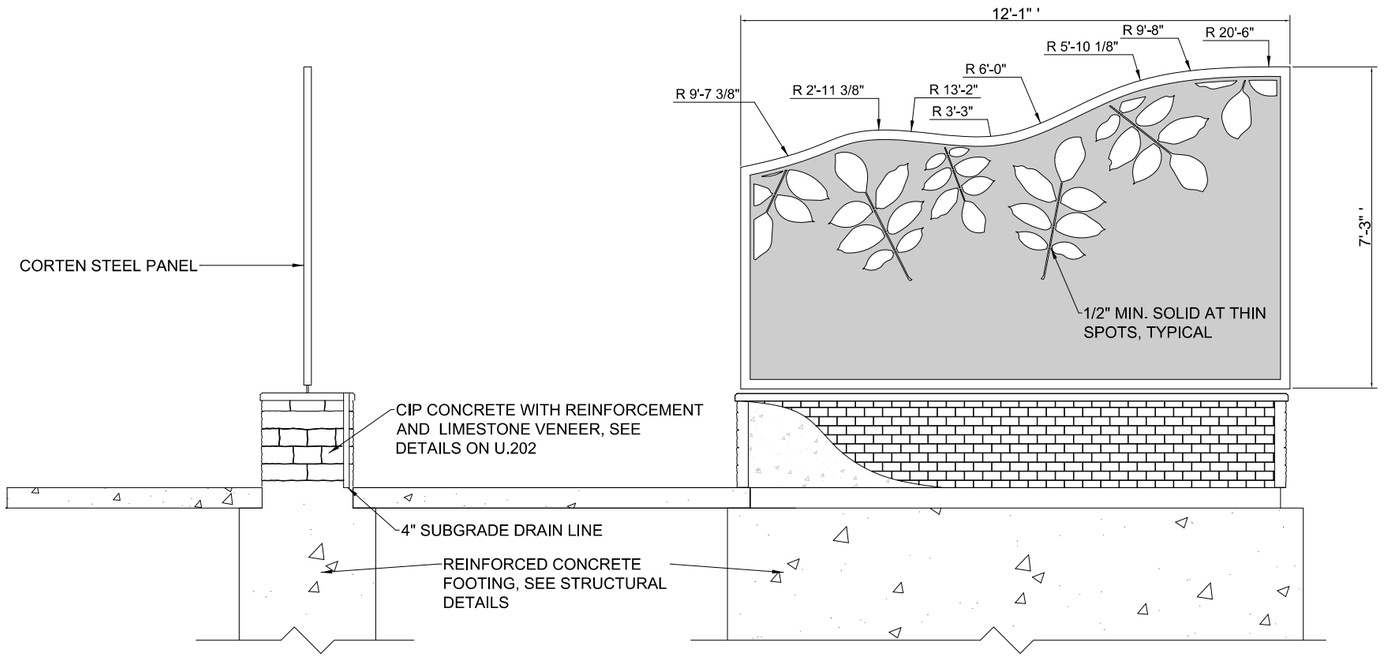
Tyler R. VonWeihe, P.E. 06/26/2026
Tyler R. VonWeihe, P.E. Date

License Number P25351
My License Renewal Date is December 31, 2026

Pages or sheets covered by this seal:
U.200-U.204



PLAN VIEW



SIDE ELEVATION

FRONT ELEVATION

COLUMN VENEER NOTES:

1. INSTALL IN ACCORDANCE WITH MANUFACTURER RECOMMENDATIONS, SPECIFICATION, AND REQUIREMENTS
2. LIMESTONE TO BE SOURCED AND PROVIDED FROM A SINGLE QUARRY AND SHALL FOLLOW ILIA GUIDELINES

COLUMN VENEER

BERKSHIRE FULL BED VENEER ASHLAR PATTERN WITH 3-HEIGHT STANDARD

COLOR: GRAY
GRADE: STANDARD
FINISH: SPLIT FACE

AS PROVIDED BY:

INDIANA LIMESTONE COMPANY (BASIS OF DESIGN)
120 W. 7TH ST. SUITE 201
BLOOMINGTON, IN 47404
PHONE: (800) 457-4026 (812) 275-3341 FAX: (812) 287-7522
WWW.INDIANALIMESTONECOMPLANY.COM

IOWA STONE SUPPLY
1885 SE DESTINATION DR.
GRIMES, IA 50111
PHONE: (515) 276-6655
E-MAIL: KJOHNSON@IOWASTONESUPPLY.COM
WWW.IOWASTONESUPPLY.COM

STONE CONCEPTS
10956 FOREST CHAPEL RD.
ANAMOSA, IA 52205
PHONE: (319) 462-3669 FAX: (319) 462-6004
E-MAIL: ABODDICKER@STONECONCEPTS.COM
WWW.STONECONCEPTS.COM

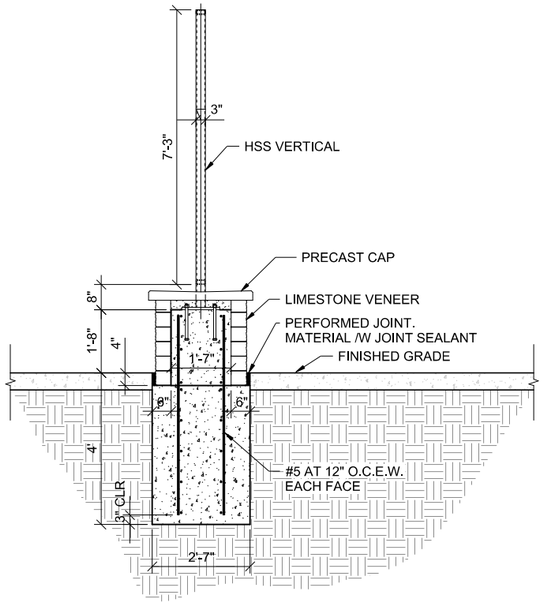
OR APPROVED EQUAL

ARCHITECTURAL COLUMN CONSTRUCTION NOTES:

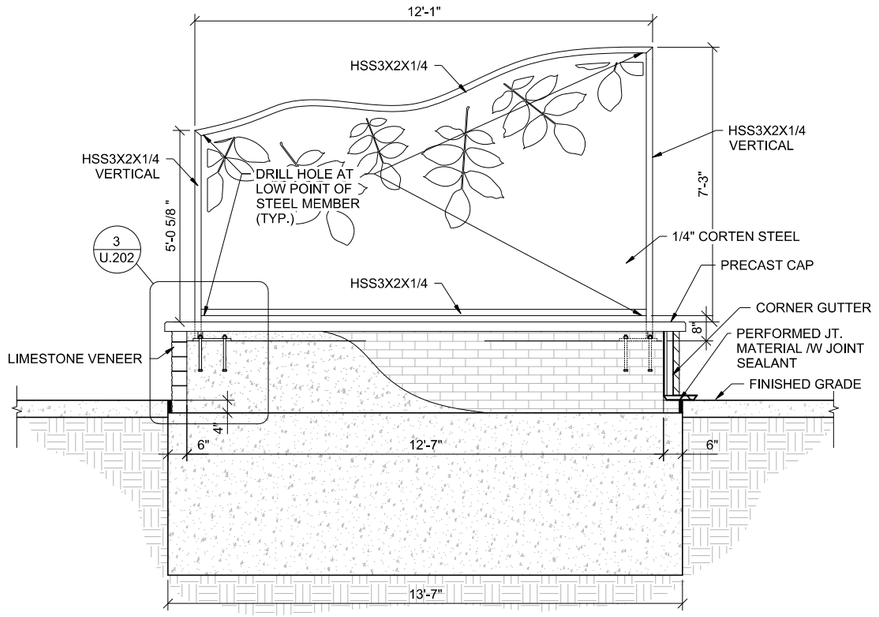
1. STEEL PANELS TO BE CUT LEAVING LEAF SILHOUETTE DESIGN AS VOID SPACE.
2. STEEL PANELS TO HAVE 3"x2"x1/4" WEATHERED STEEL TUBING AROUND THE BORDER TO ACT AS A FRAME.
3. 1/4" INTERIOR PANEL THICKNESS.
4. CAST-IN-PLACE CONCRETE COLUMN TO HAVE LIMESTONE BLOCK VENEER. A SAMPLE OF THE BLOCK IN EACH DIMENSION IS TO BE PROVIDED FOR APPROVAL.
5. WALL CAP TO BE CUSTOM PRECAST CONCRETE WITH DRAINAGE TO STEEL RUSTICATION STRIP. SUBMIT SAMPLE SHOWING COLOR AND FINISH FOR APPROVAL.
6. CONCRETE COLUMN AND FOOTING TO BE REINFORCED, SEE DETAILS ON SHEET U.202.
7. RUSTICATION STRIP TO BE ATTACHED TO STRUCTURAL COLUMN, SEE DETAILS ON U.202 FOR ATTACHMENT METHOD
8. CAD FILE AVAILABLE FROM ENGINEER FOR DIMENSIONS / SHOP DRAWING PREPARATION OF PANELS.

SEE STRUCTURAL DETAILS, SHEET U.202 FOR ADDITIONAL INFORMATION

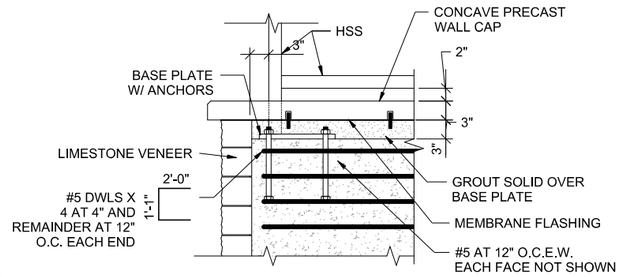
ARCHITECTRUAL MONUMENT OVERVIEW



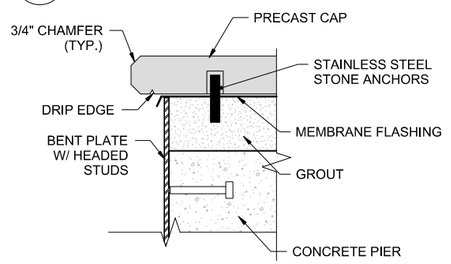
1 U.202 SECTION OF ARCHITECTURAL MONUMENT
1/2" = 1'-0"



2 U.202 ELEVATION
1/2" = 1'-0"



3 U.202 DETAIL
1" = 1'-0"



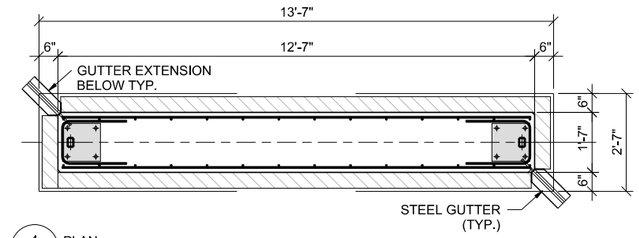
5 U.202 CORNER GUTTER SECTION
3" = 1'-0"

ESTIMATED QUANTITIES (PER EACH ARCHITECTURAL MONUMENT):

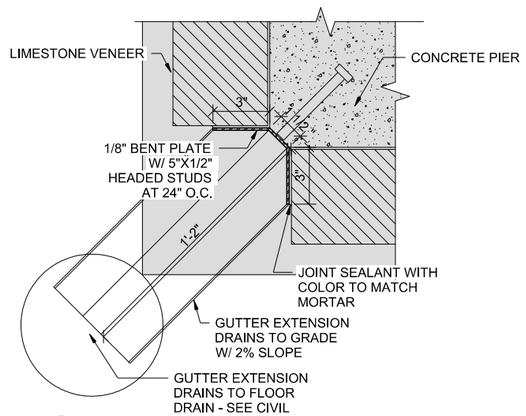
ITEM	UNIT	TOTAL
CONCRETE, CLASS C	CU. YDS	6.4
REINFORCING STEEL	LBS.	308.3
STRUCTURAL STEEL	LBS.	1081.0
PRECAST CAP	SF	37.3
LIMESTONE VENEER	SF	68.2

NOTES:

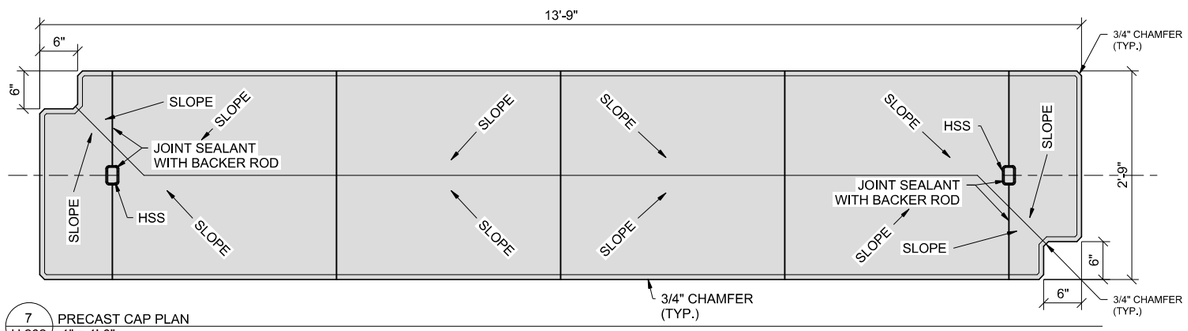
1. CONTRACTOR SHALL FIELD-VERIFY ALL DIMENSIONS. CONTACT ENGINEER WITH ANY DISCREPANCIES.
2. REFER TO U.100 SERIES SHEETS FOR LOCATIONS OF ARCHITECTURAL MONUMENTS.
3. PROVIDE STAINLESS STEEL STONE ANCHORS AT 10" O.C. SECURE CAP TO ANCHORS WITH ADHESIVE CAULK.
4. PROVIDE SEALANT WITH BACKER ROD AT ALL PRECAST CAP JOINTS.
5. PROVIDE ADHERED FLEXIBLE MEMBRANE FLASHING WITH COTTON WEEP TO DRAIN MOISTURE .



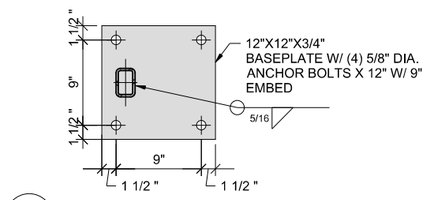
4 U.202 PLAN
1/2" = 1'-0"



6 U.202 CORNER GUTTER DETAIL
3" = 1'-0"



7 U.202 PRECAST CAP PLAN
1" = 1'-0"



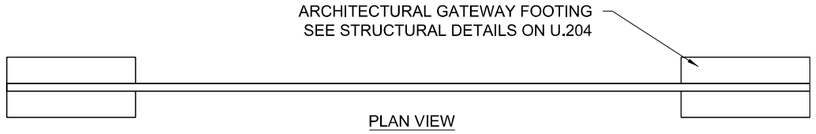
8 U.202 BASE PLATE DETAIL
1 1/2" = 1'-0"

ARCHITECTRUAL MONUMENT DETAILS

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER U.202

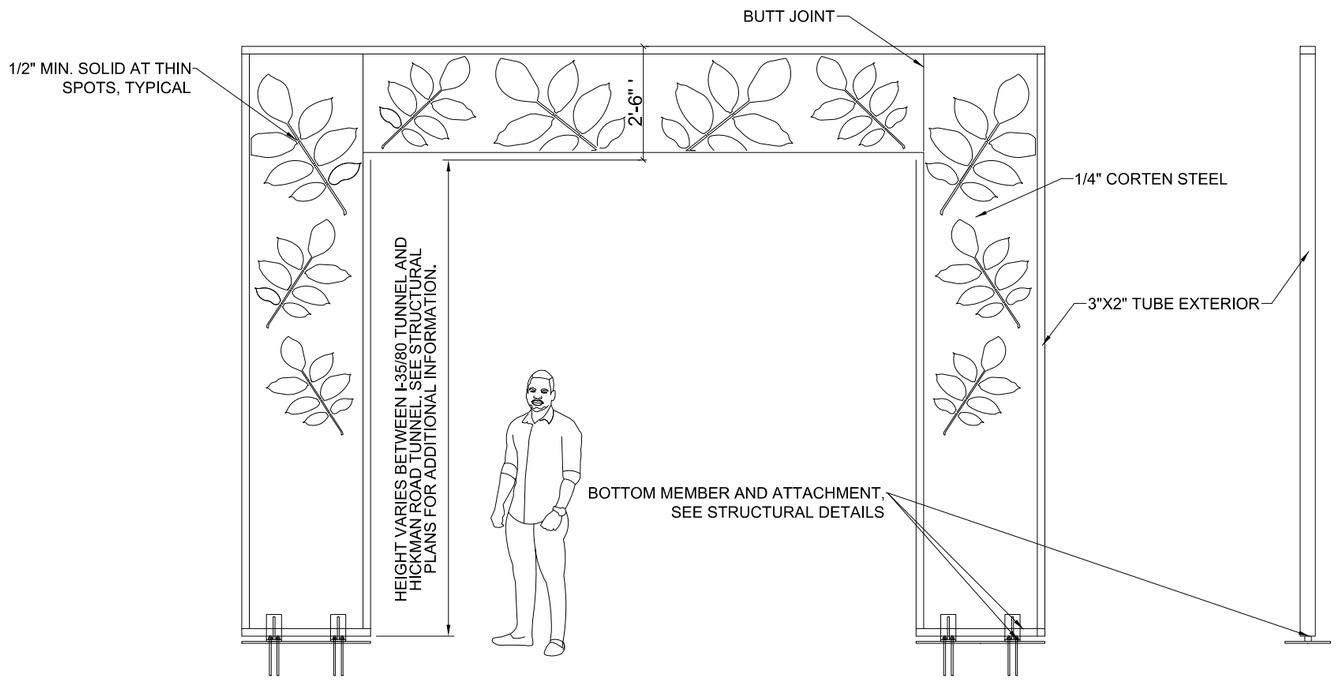
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V2

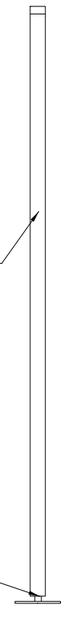


PLAN VIEW

PLAN VIEW



TUNNEL ENRRY GATEWAY FEATURE
(NO SCALE)



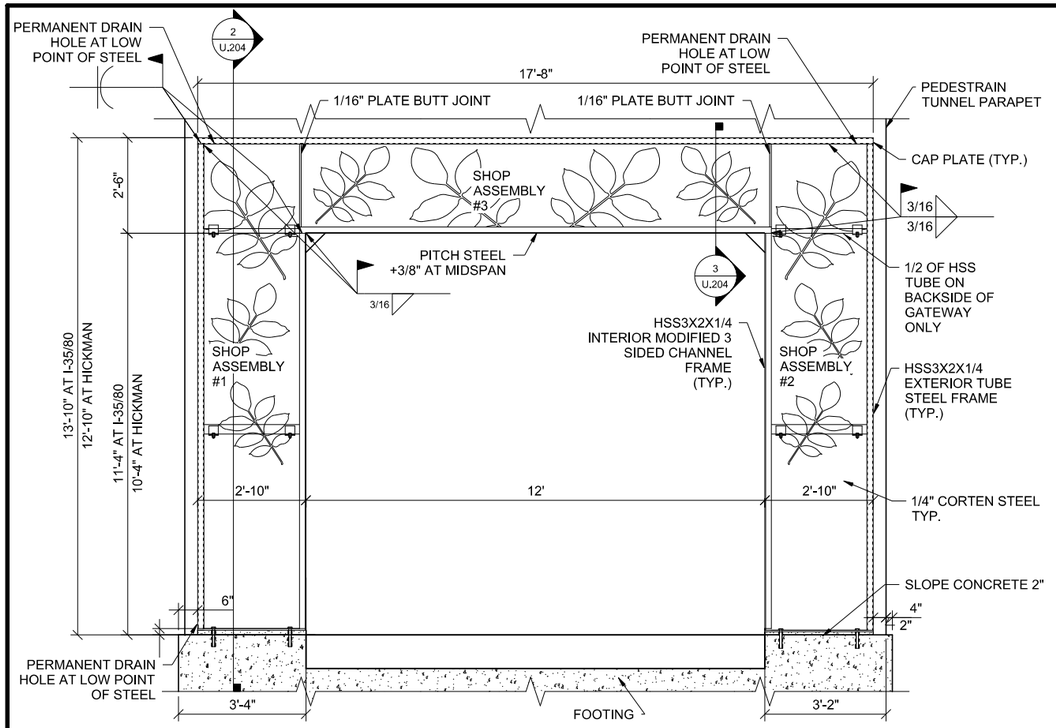
SIDE ELEVATION
(NO SCALE)

ARCHITECTURAL GATEWAY CONSTRUCTION NOTES:

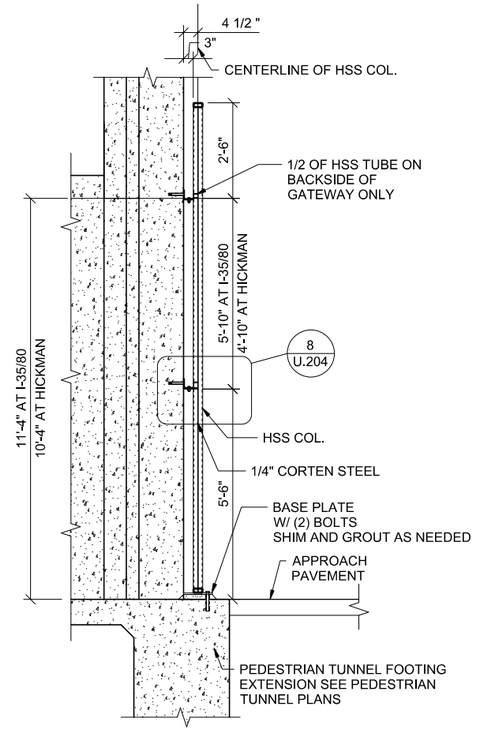
1. CORTEN STEEL PANELS TO BE LASER CUT LEAVING LEAF SILHOUETTE DESIGN AS VOID SPACE.
2. STEEL PANELS TO HAVE 3" X 2" WEATHERED STEEL TUBING AROUND THE BORDER TO ACT AS A FRAME.
3. 1/4" INTERIOR PANEL THICKNESS.
4. CONTRACTOR TO SUBMIT SHOP DRAWINGS SHOWING EACH PANEL FOR ENGINEERS REVIEW AND APPROVAL PRIOR TO FABRICATION.
5. CAD FILE AVAILABLE FROM ENGINEER FOR DIMENSIONS / SHOP DRAWING PREPARATION FOR PANELS.

SEE STRUCTURAL DETAILS,
SHEET U.204 FOR
ADDITIONAL INFORMATION

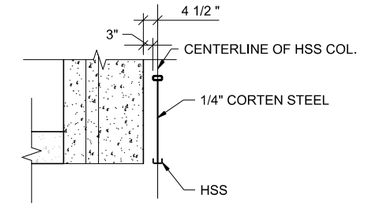
PEDESTRIAN TUNNEL
ENTRY GATEWAY FEATURE
OVERVIEW



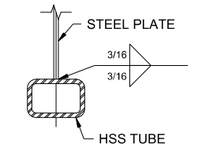
1 U.204 TUNNEL ENTRY GATEWAY FEATURE 1/2" = 1'-0"



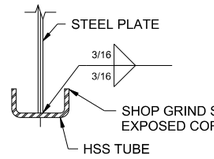
2 U.204 SIDE SECTION 1/2" = 1'-0"



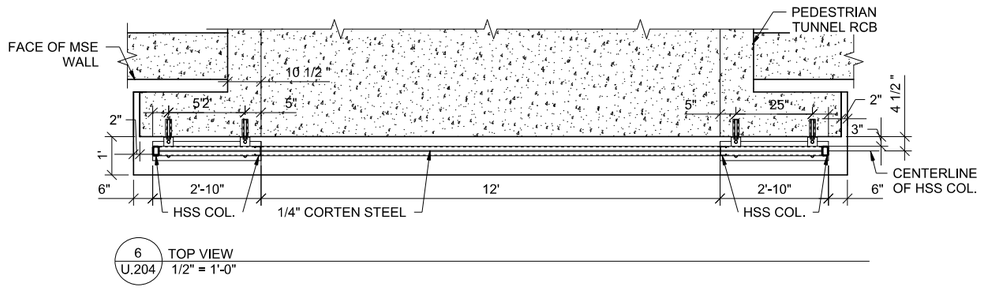
3 U.204 SECTION 1/2" = 1'-0"



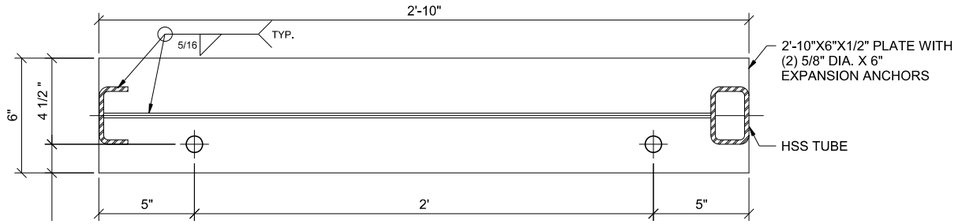
4 U.204 CONNECTION DETAIL 3" = 1'-0"



5 U.204 CONNECTION DETAIL 3" = 1'-0"

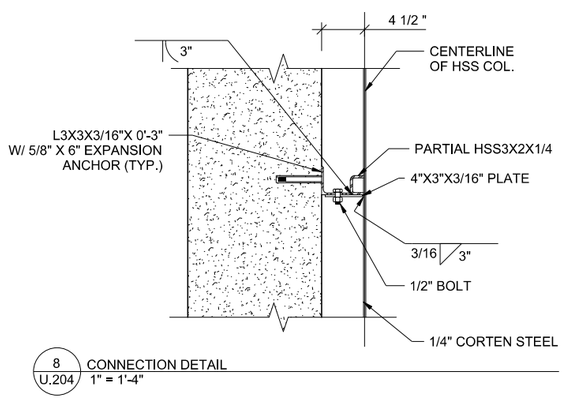


6 U.204 TOP VIEW 1/2" = 1'-0"



7 U.204 BASE PLATE DETAIL 3" = 1'-0"

ESTIMATED QUANTITIES (PER EACH TUNNEL ENTRY GATEWAY FEATURE):		
ITEM	UNIT	TOTAL
STRUCTURAL STEEL AT HICKMAN	LBS.	1703.0
STRUCTURAL STEEL AT I-35/80	LBS.	1789.0

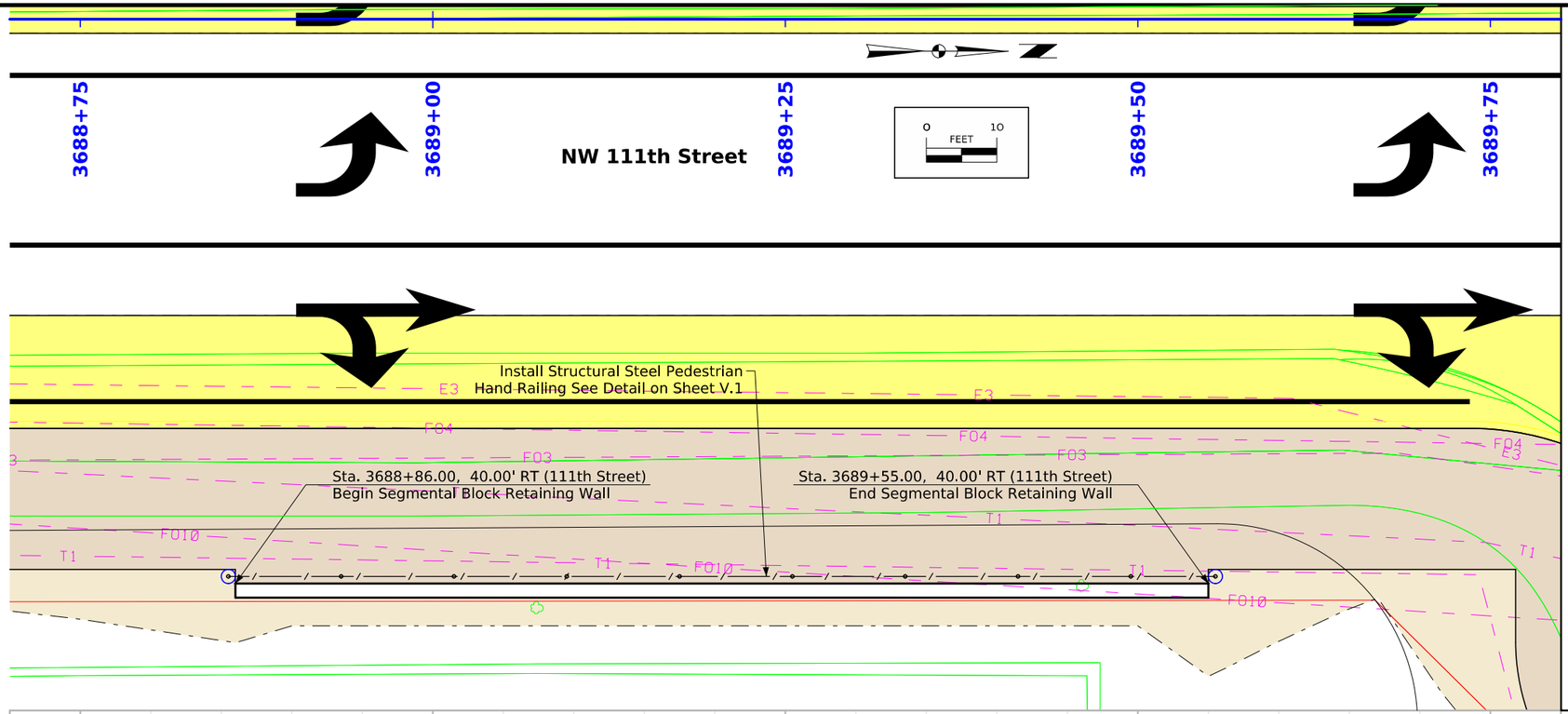


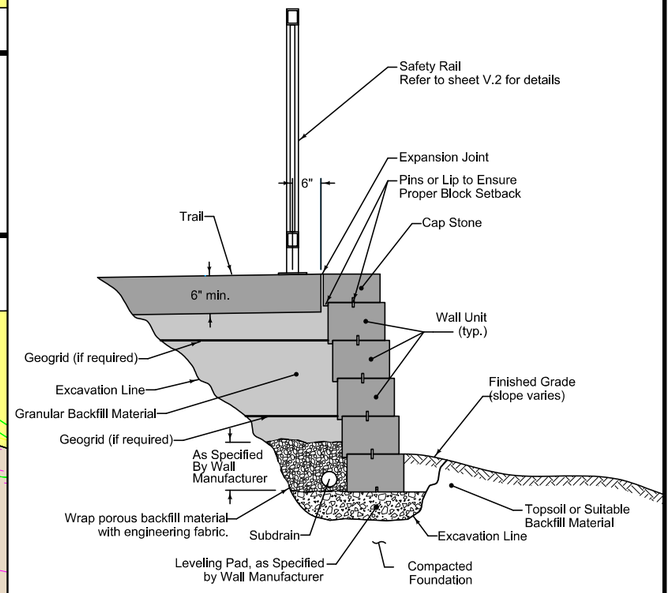
8 U.204 CONNECTION DETAIL 1" = 1'-4"

NOTES:

1. CONTRACTOR SHALL FIELD-VERIFY ALL DIMENSIONS. CONTACT ENGINEER WITH ANY DISCREPANCIES.
2. STEEL QUANTITIES ASSUME TWO ENTRY FEATURES AT EACH PEDESTRIAN TUNNEL.
3. SEE DESIGN NUMBER 1325 & 1425, PROJECT NUMBER IMN-080-3(339)125--0E-77 FOR DETAILS OF THE PEDESTRIAN TUNNEL UNDER I-80/35.
4. SEE DESIGN NUMBER 2225 & 2324, PROJECT NUMBER IMN-080-3(340)125--0E-77 FOR DETAILS OF THE PEDESTRIAN TUNNEL UNDER HICKMAN ROAD.

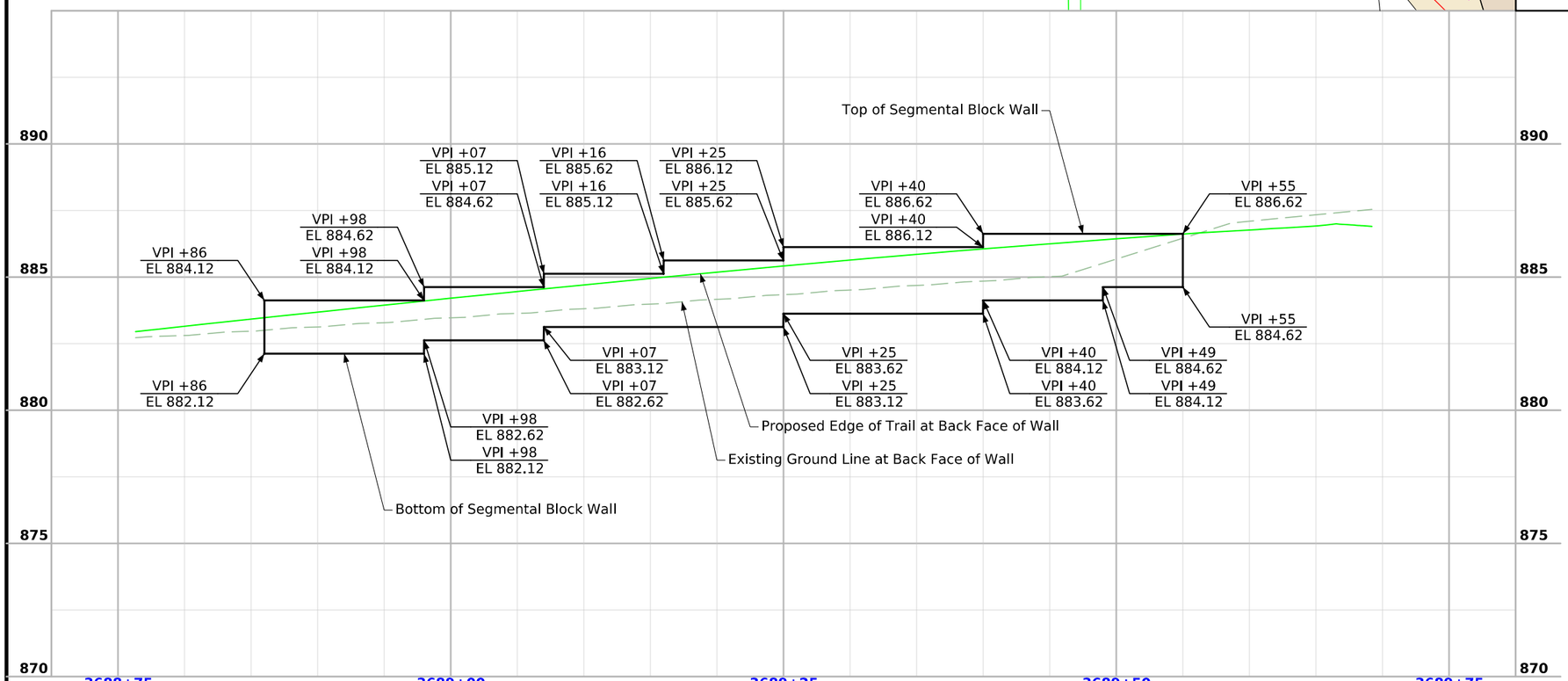
PEDESTRIAN TUNNEL ENTRY GATEWAY FEATURE DETAILS





NOTES:
Exact dimensions, wall batter, backfill limits, reinforcement, and leveling pad materials and dimensions will be specified by the wall manufacturer.

TYPICAL SECTION



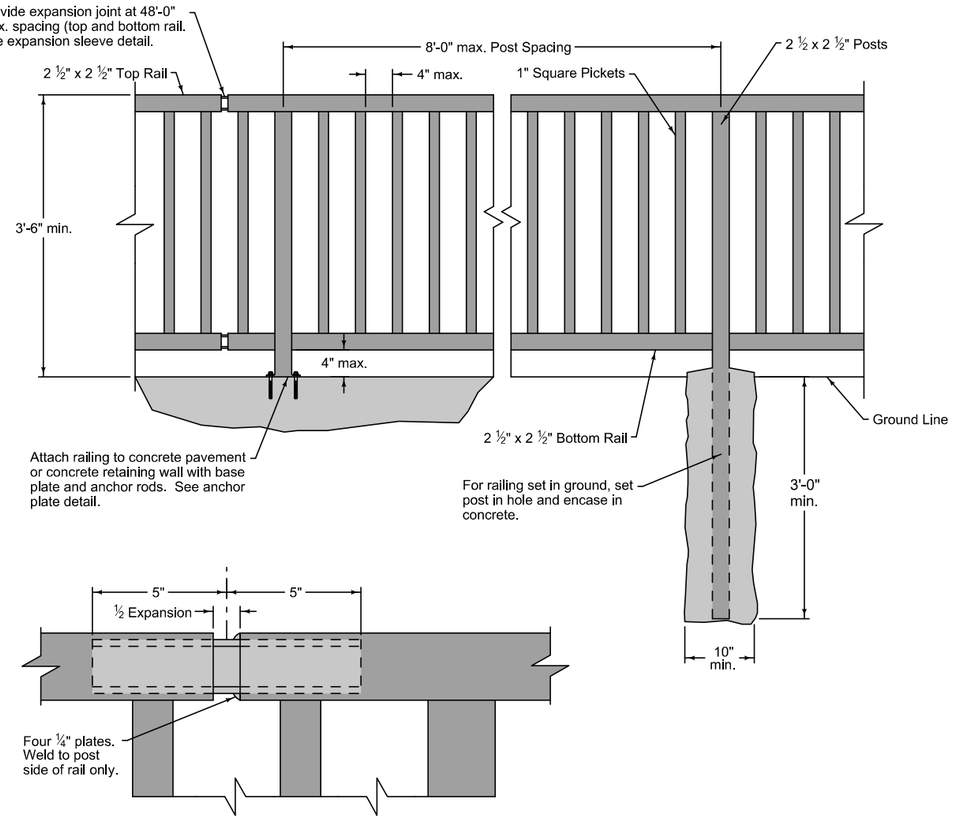
Proposed Segmental Block Wall Geometrics
NW 111th Street

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER V.1

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SR111_Wall_SE_Top - Profile 1

V2

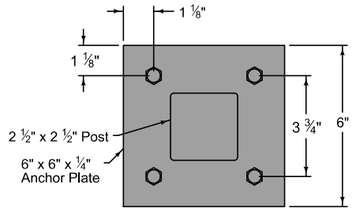


EXPANSION SLEEVE DETAIL (1)

Weld all components with 1/4 inch fillet welds. Grind welds and connections as requried to provide a smooth surface, free of burrs.

Field paint safety rail after installation as specified in the contract documents.

(1) Detail shown is for top rail. Expansion joint for bottom rail is similar.



ANCHOR PLATE DETAIL

STRUCTURAL STEEL PEDESTRIAN HAND RAIL

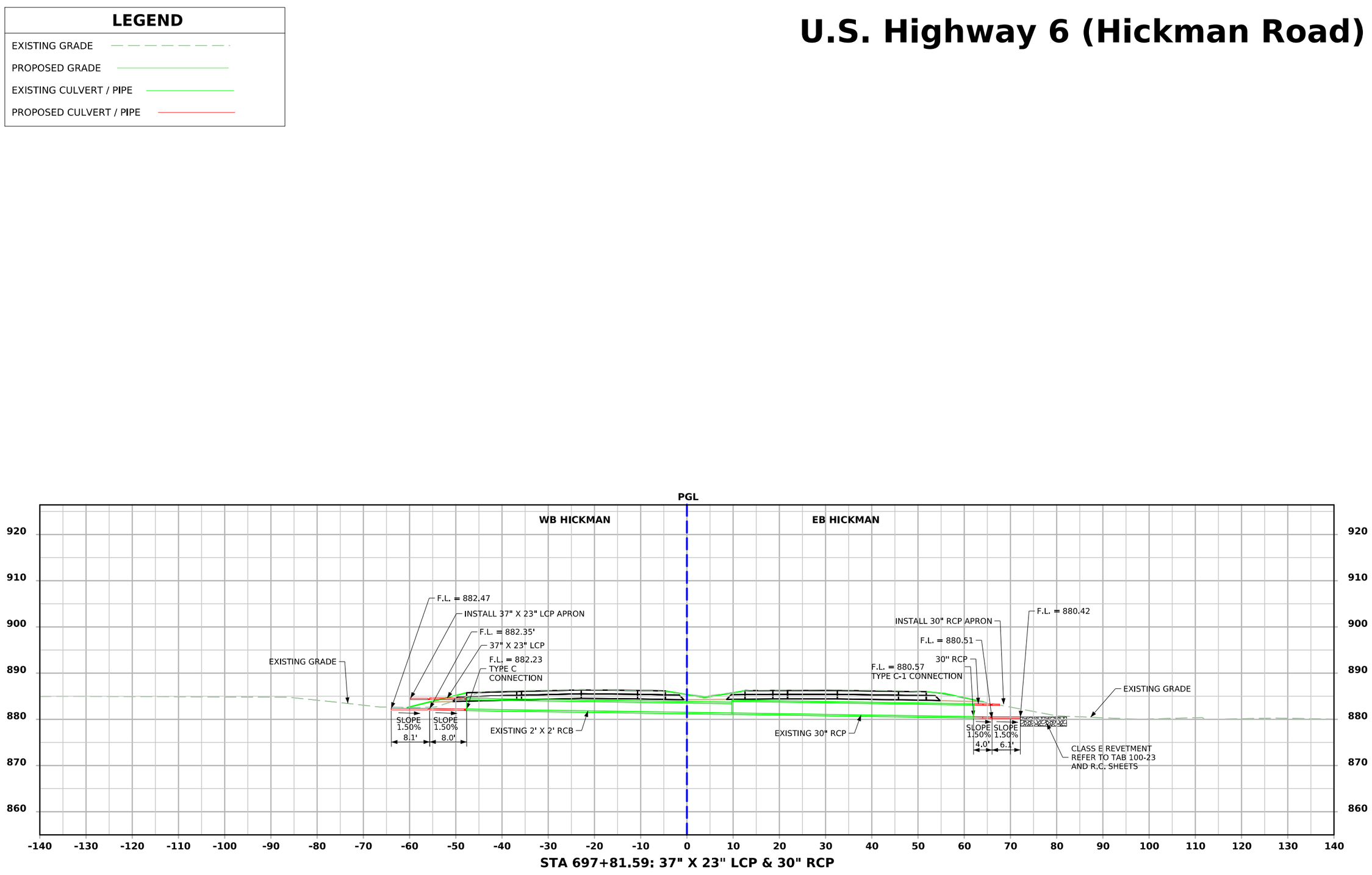
FILE NO.	ENGLISH	DESIGN TEAM **Snyder & Associates, Inc.**	**Polk** COUNTY	PROJECT NUMBER **IM-080-3(274)125--13-77**	SHEET NUMBER **V.2**	

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V2

LEGEND	
EXISTING GRADE	— — — — — — — —
PROPOSED GRADE	————
EXISTING CULVERT / PIPE	————
PROPOSED CULVERT / PIPE	————

U.S. Highway 6 (Hickman Road)



STA 697+81.59: 37" X 23" LCP & 30" RCP

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER VW.1

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V2

CROSS SECTION VIEW COLOR LEGEND

Design Color No.	Feature
Aggregate	
(64)	Choke Stone
(42)	Engineering Fabric
(8)	Flooded Backfill
(92)	Macadam Stone
(20)	Modified
(12)	Plowing Shaping
(14)	Porous Backfill
(8)	Revetment Class A
(6)	Revetment Class B
(62)	Revetment Class C
(188)	Revetment Class D
(28)	Revetment Class E
(12)	Shoulder Special Backfill
(12)	Special Backfill
(20)	Subbase
(20)	Subbase Lower
(20)	Subbase Upper
(118)	Subgrade Treatment
Asphalt	
(207)	HMA Base Course
(207)	HMA Interim Course
(207)	HMA Surface Course
Concrete	
(0)	Barrier Concrete
(0)	Barrier Concrete Footing
(0)	Curb Gutter
(48)	Flowable Mortar
(0)	Median Concrete
(0)	PCC Pavement
(0)	Sidewalk
Shoulder	
(209)	Shoulder HMA
(0)	Shoulder PCC
(6)	Shoulder Granular
Existing	
(0)	Existing Pavement
Structural	
(112)	Noise Wall
(112)	Noise Wall Footing
(112)	Retaining Wall Back
(112)	Retaining Wall Back Excavate
(112)	Retaining Wall Face
(112)	Retaining Wall Front Excavate
(112)	Retaining Wall Front Footing
(112)	Retaining Wall MSE Gutter
(112)	Retaining Wall Reinforced Earth
Grading	
(8)	Behind Curb Cut
(6)	Granular
(13)	Granular Back Fill
(48)	Rock Undercut
(8)	Shoulder Earth Fill
(2)	Side Slopes
(226)	Side Slopes Dressing
Substrata	
(128)	Boulder Substrata
(48)	Broken Weathered Substrata
(3)	Core Out Substrata
(203)	Existing Pavement Substrata
(6)	Loam Substrata
(80)	Rock Substrata
(4)	Select Sand Substrata
(3)	Shale Substrata
(10)	Topsoil Substrata
Unsuitable / Waste	
(3)	Unsuitable Type A
(13)	Unsuitable Type B
(11)	Unsuitable Type C
(3)	Waste

NOTES:

Text

NOTES:

Text

CROSS SECTIONS
LEGEND AND INFORMATION SHEET

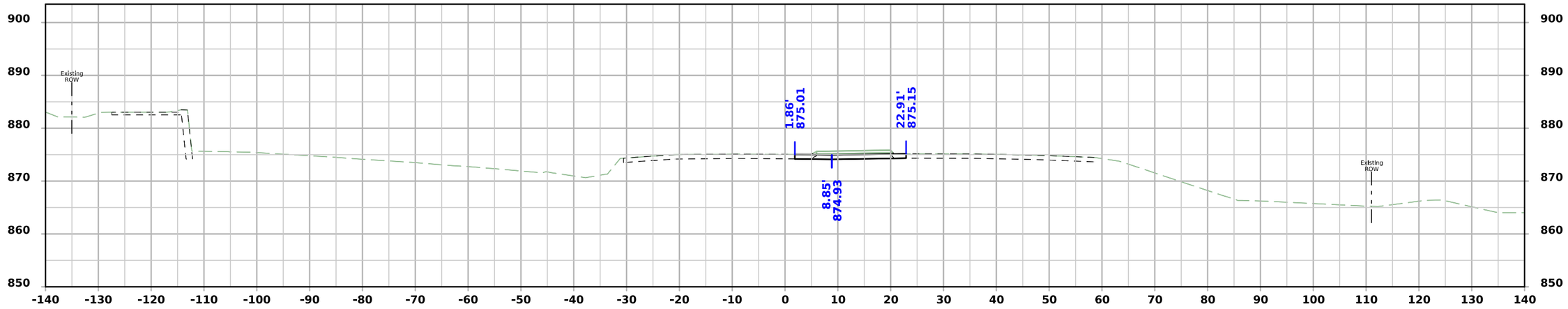
(COVERS SHEET SERIES W, X, Y, & Z)

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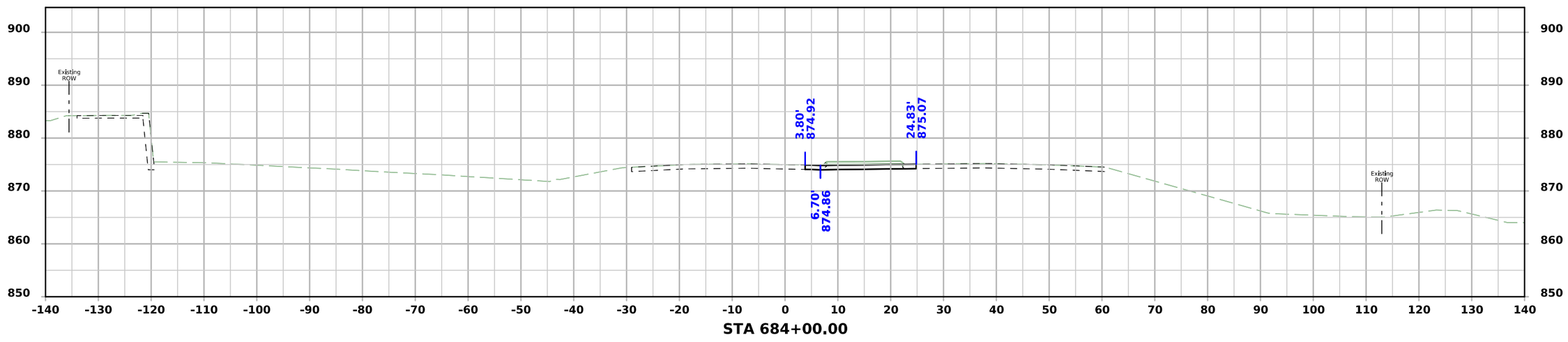
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V2

US 6 / Hickman Road - Stage 1



STA 684+25.00



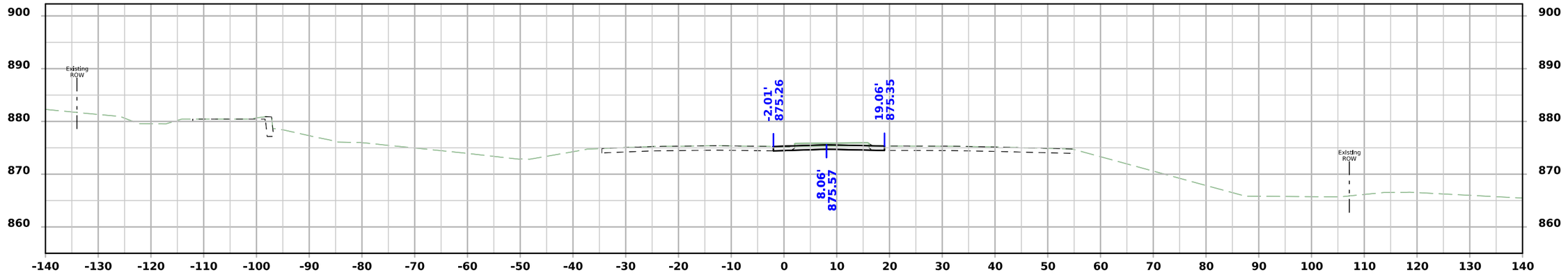
STA 684+00.00

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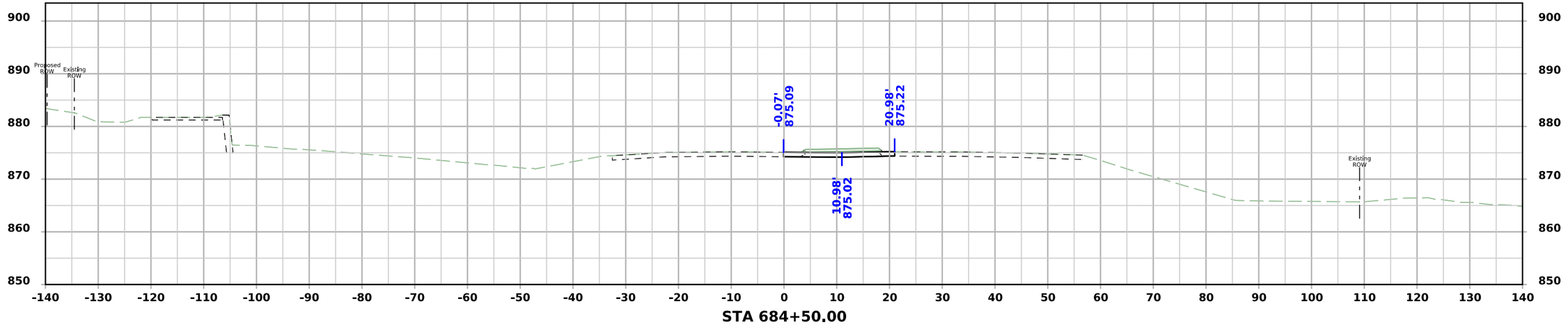
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V2

US 6 / Hickman Road - Stage 1



STA 684+75.00



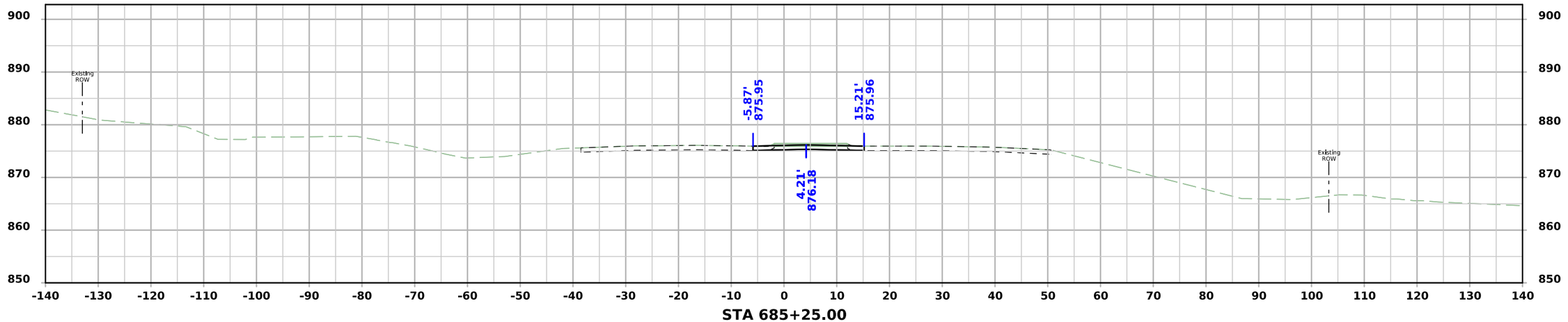
STA 684+50.00

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER W.101

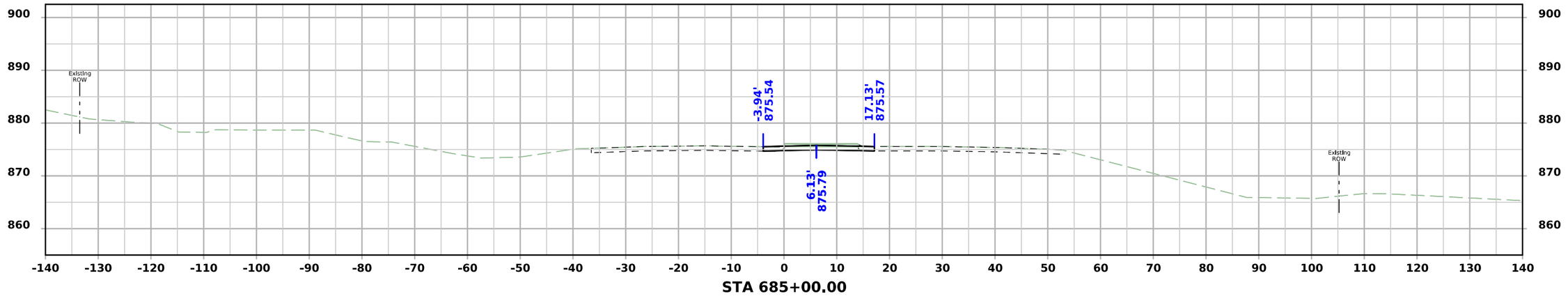
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V2

US 6 / Hickman Road - Stage 1



STA 685+25.00



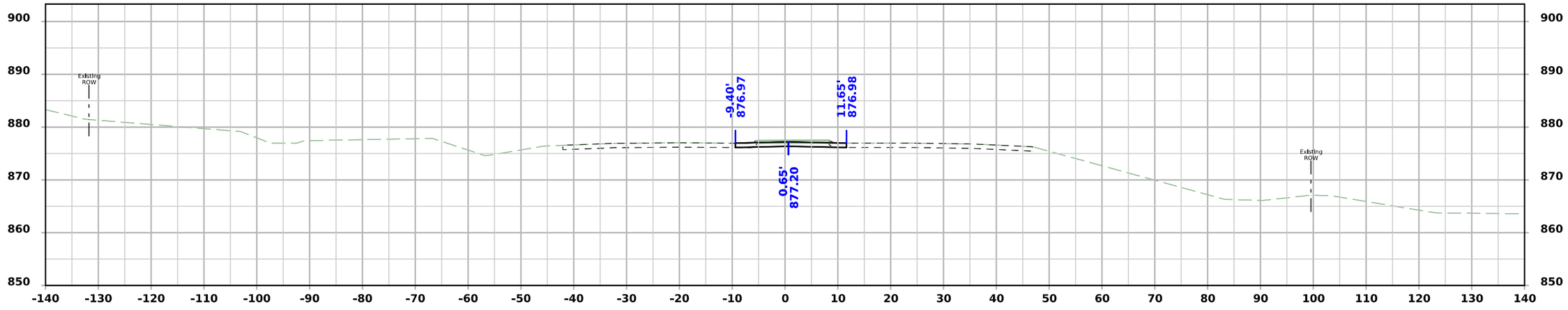
STA 685+00.00

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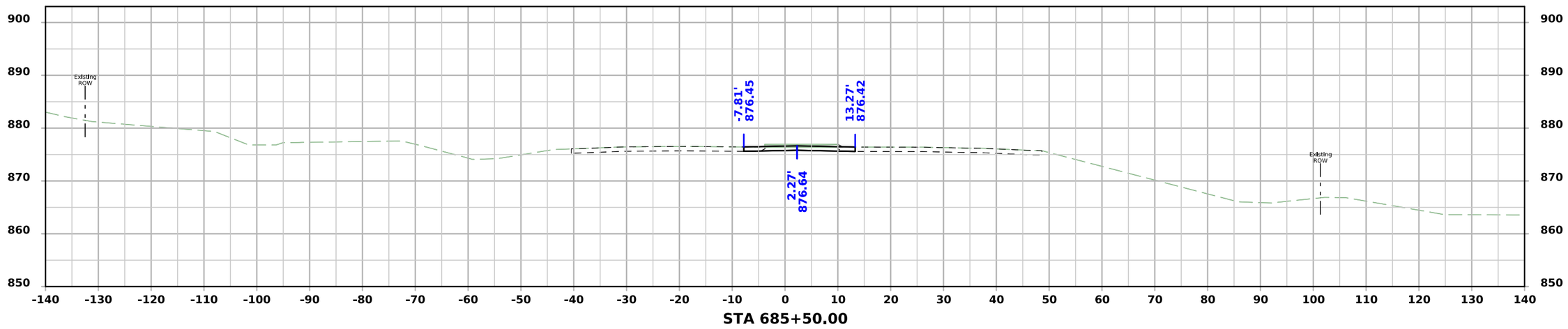
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V2

US 6 / Hickman Road - Stage 1



STA 685+75.00



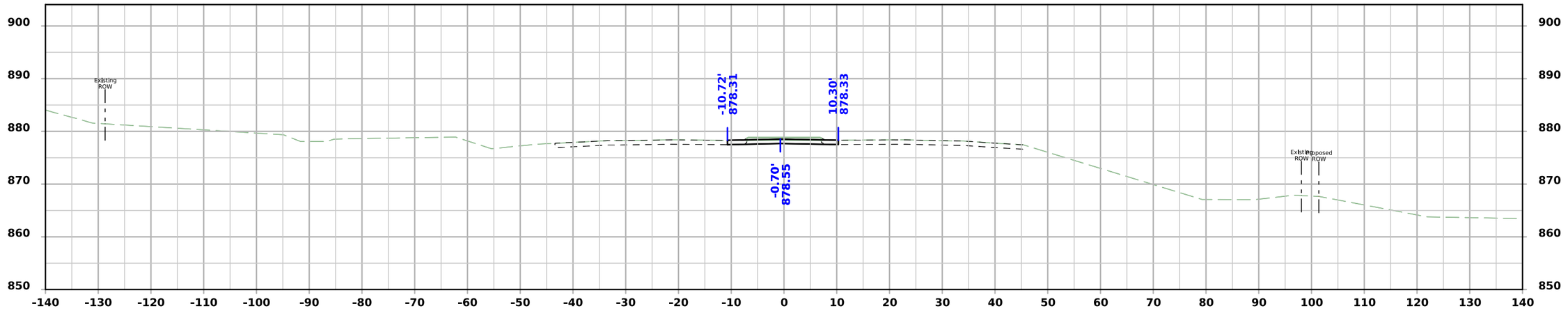
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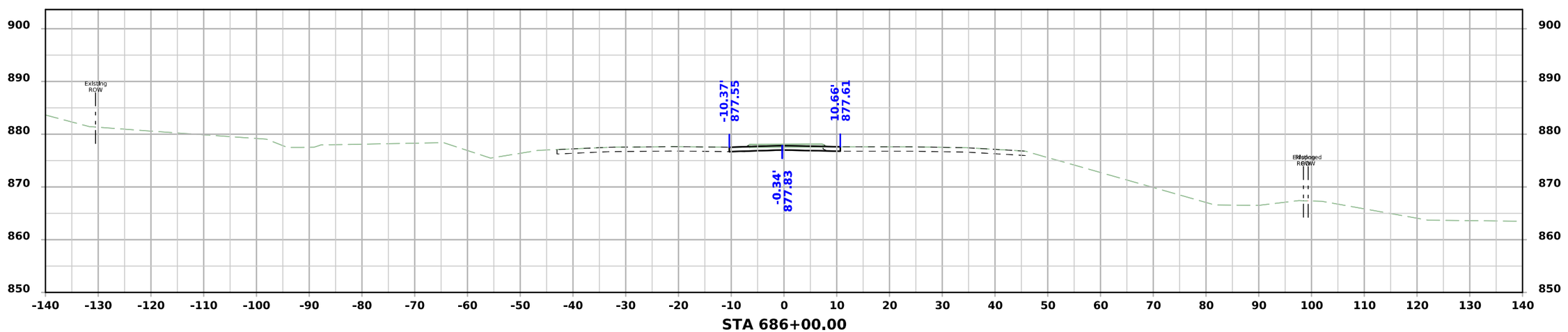
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V2

US 6 / Hickman Road - Stage 1



STA 686+25.00



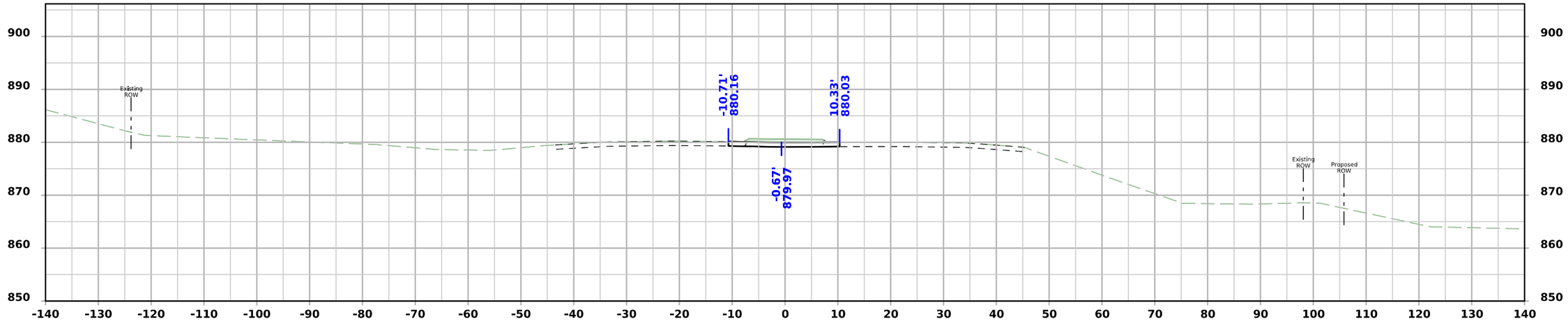
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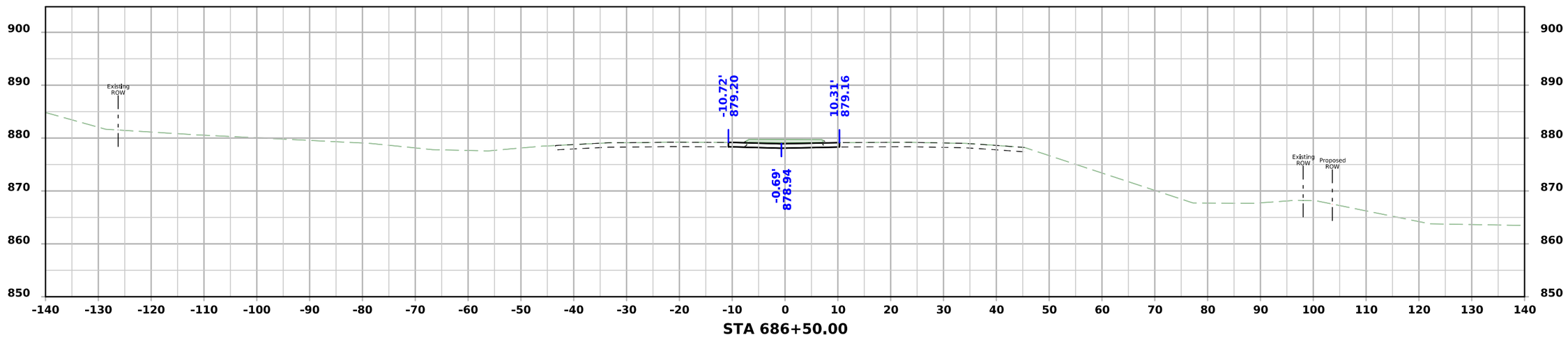
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V2

US 6 / Hickman Road - Stage 1



STA 686+75.00



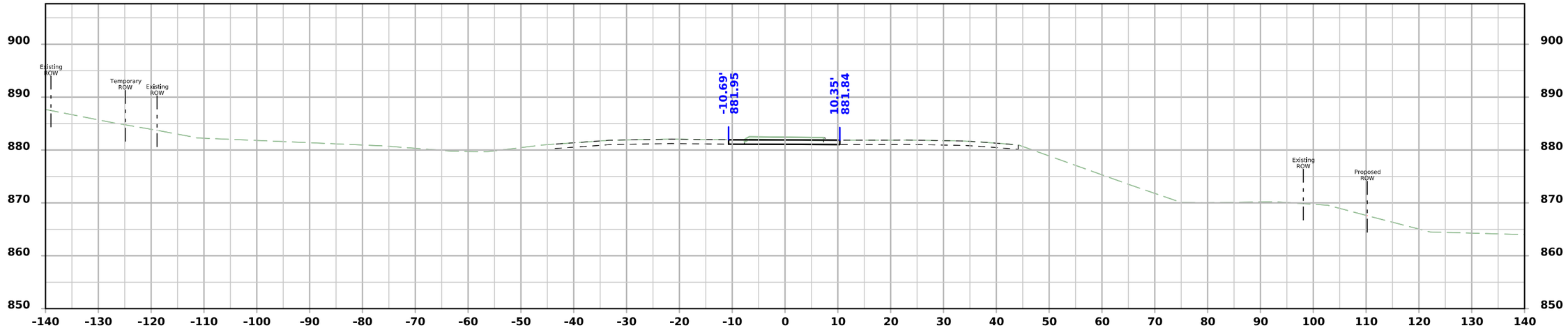
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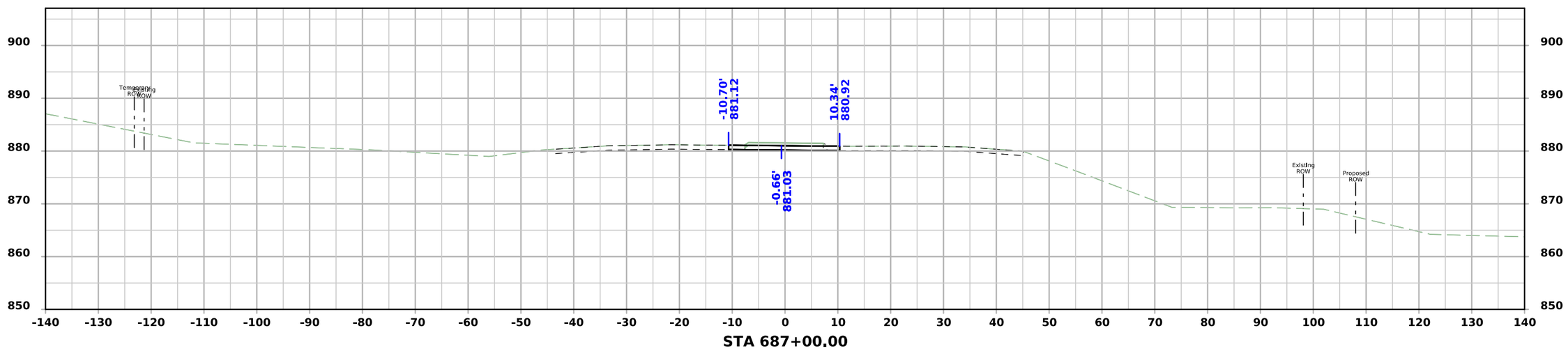
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V2

US 6 / Hickman Road - Stage 1



STA 687+25.00



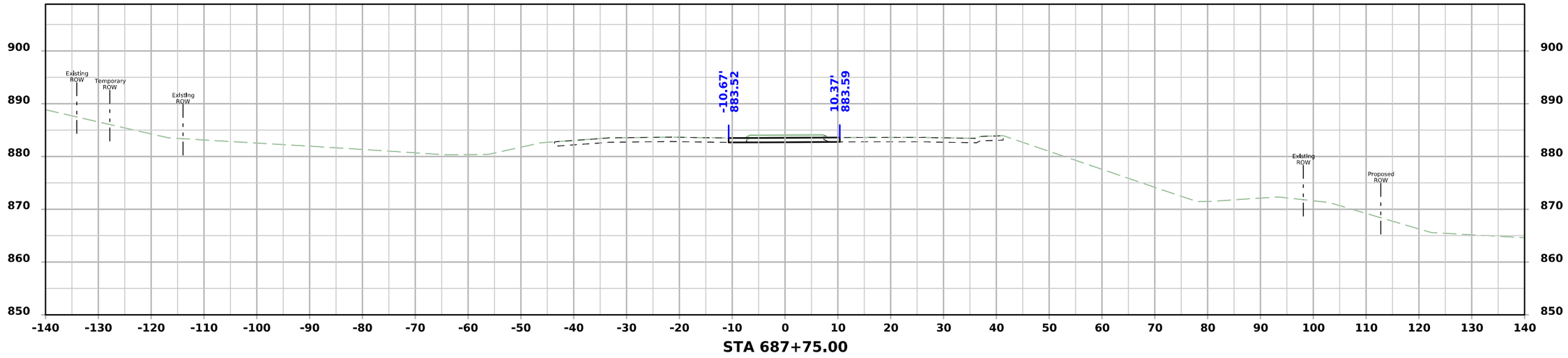
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FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER W.106

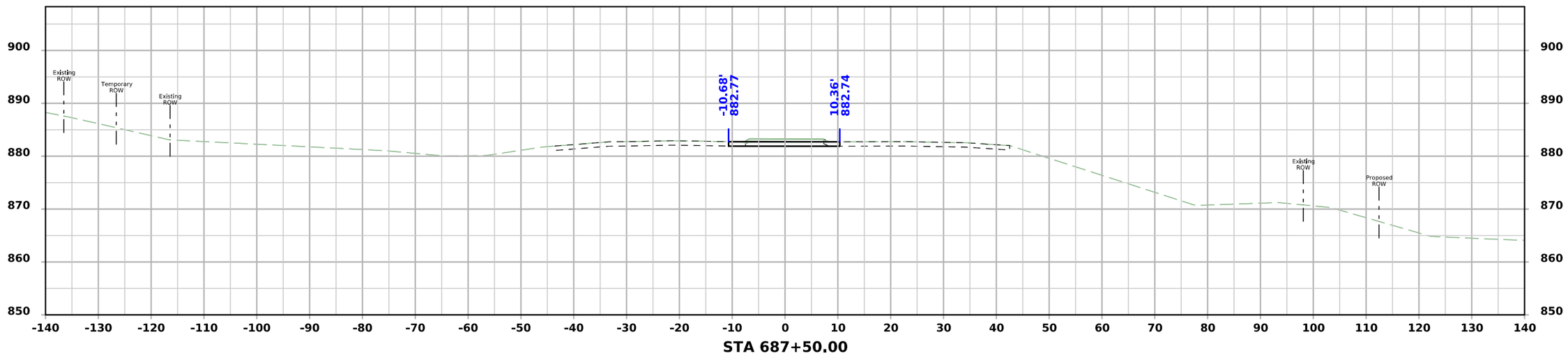
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V2

US 6 / Hickman Road - Stage 1



STA 687+75.00



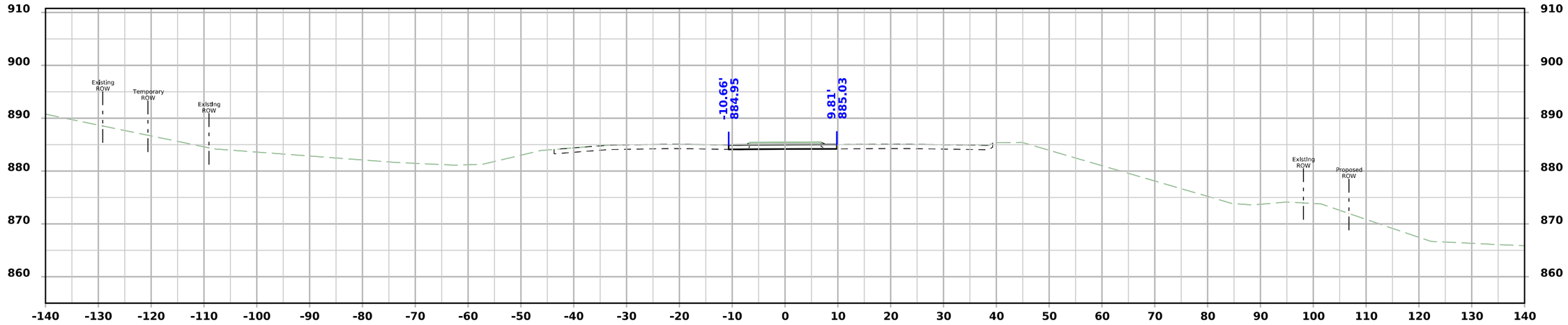
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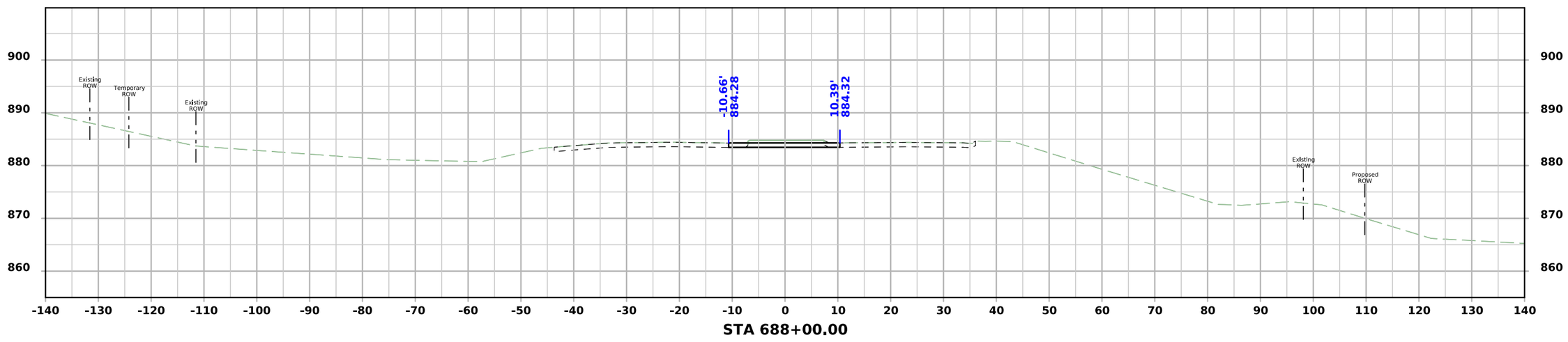
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V2

US 6 / Hickman Road - Stage 1



STA 688+25.00



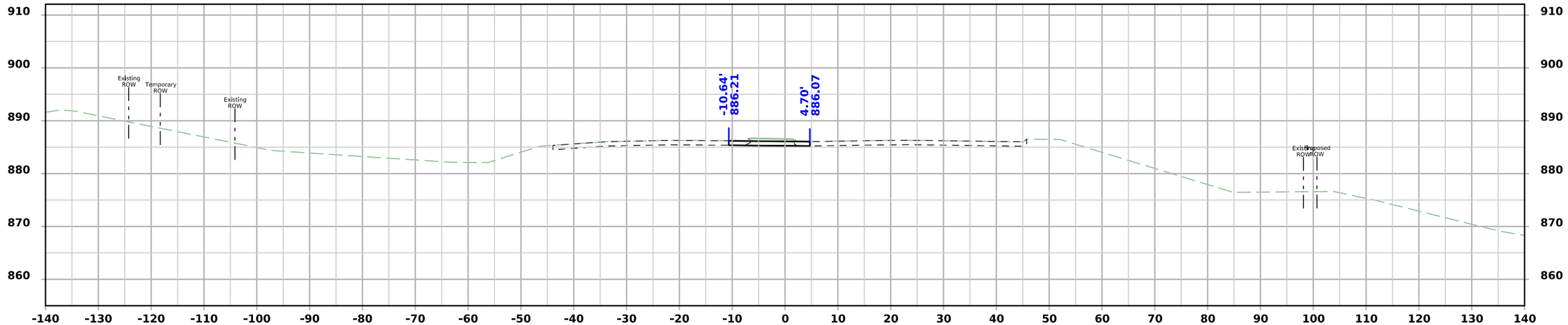
STA 688+00.00

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER W.108

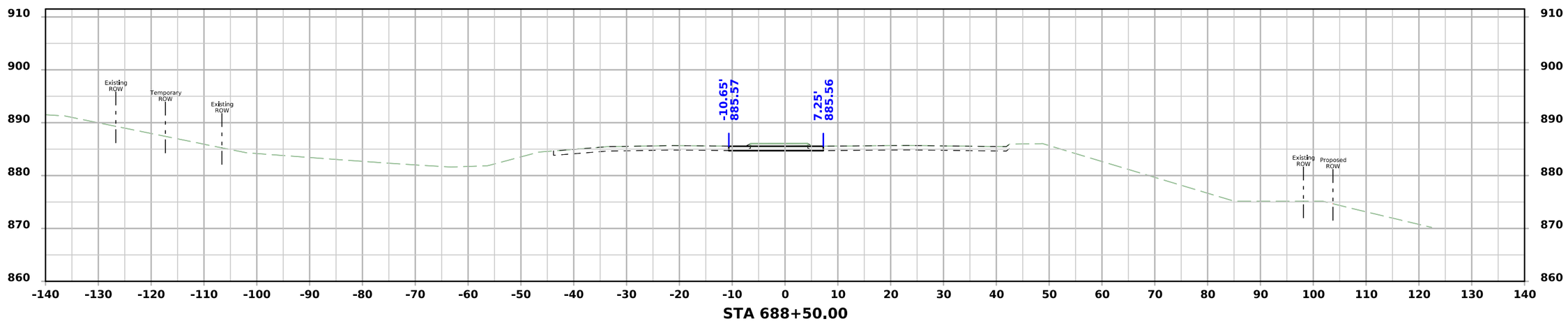
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V2

US 6 / Hickman Road - Stage 1



STA 688+75.00



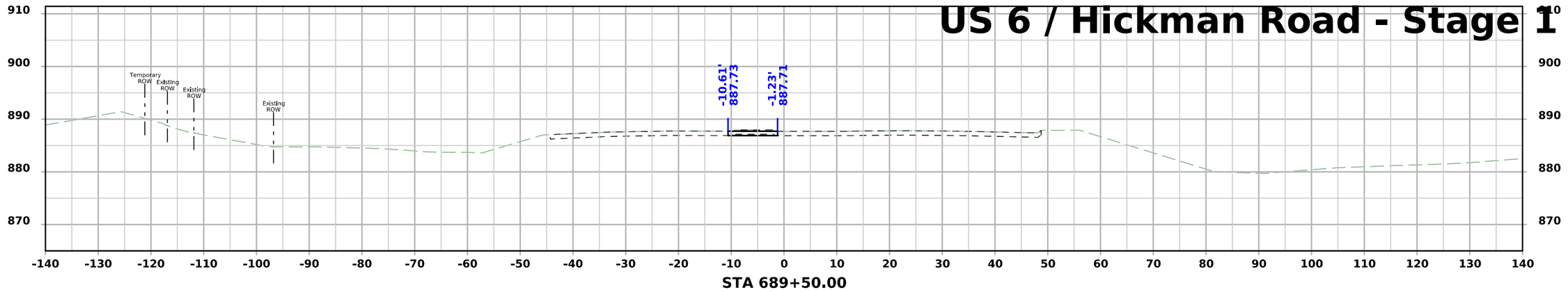
STA 688+50.00

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER W.109

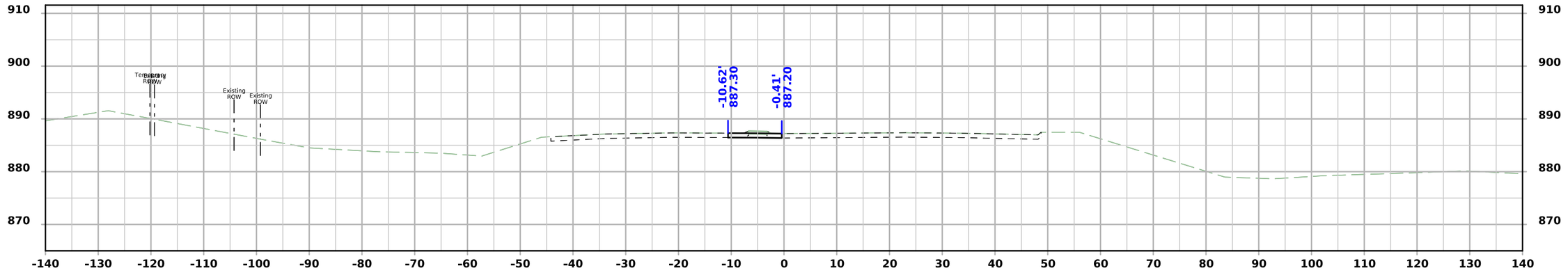
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V2

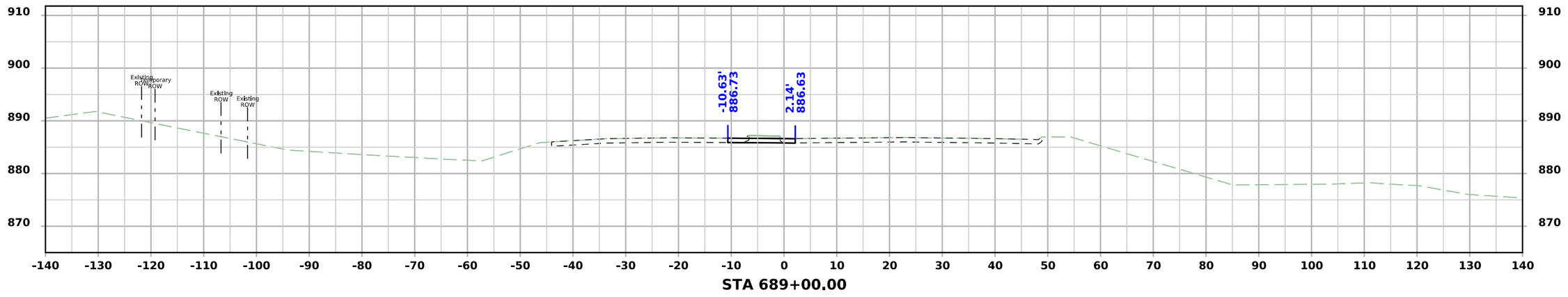
US 6 / Hickman Road - Stage 1



STA 689+50.00



STA 689+25.00



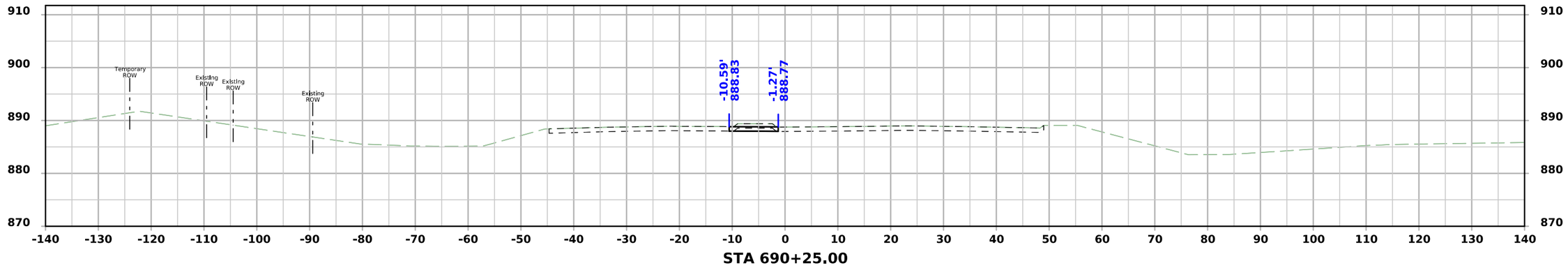
STA 689+00.00

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER W.110

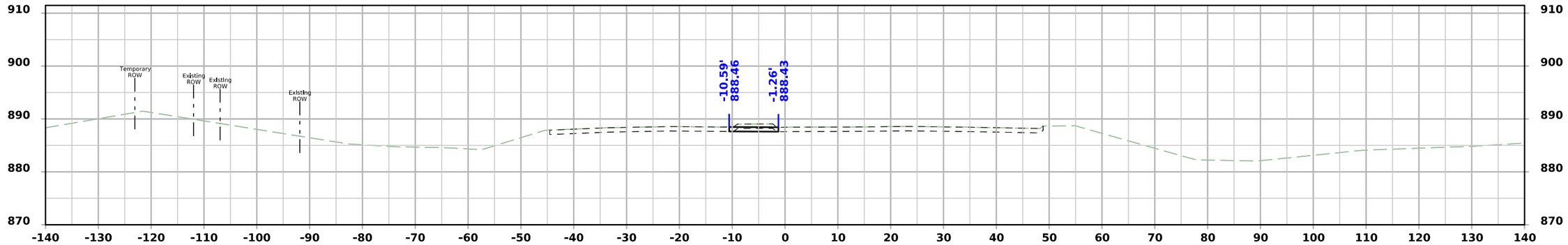
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V2

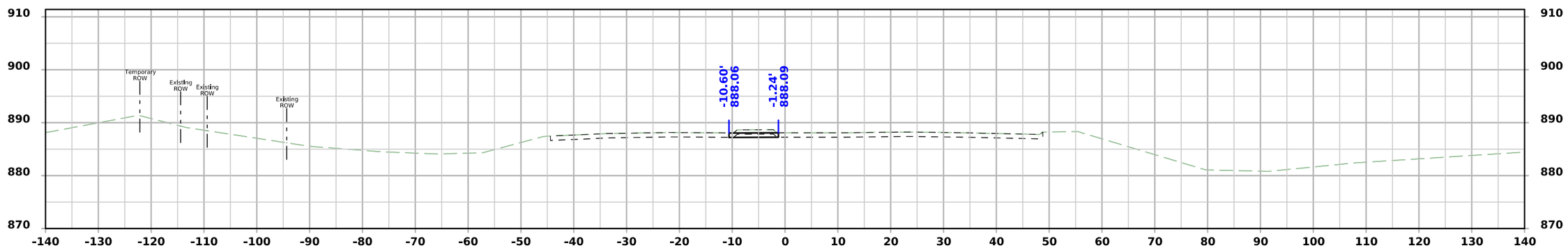
US 6 / Hickman Road - Stage 1



STA 690+25.00



STA 690+00.00



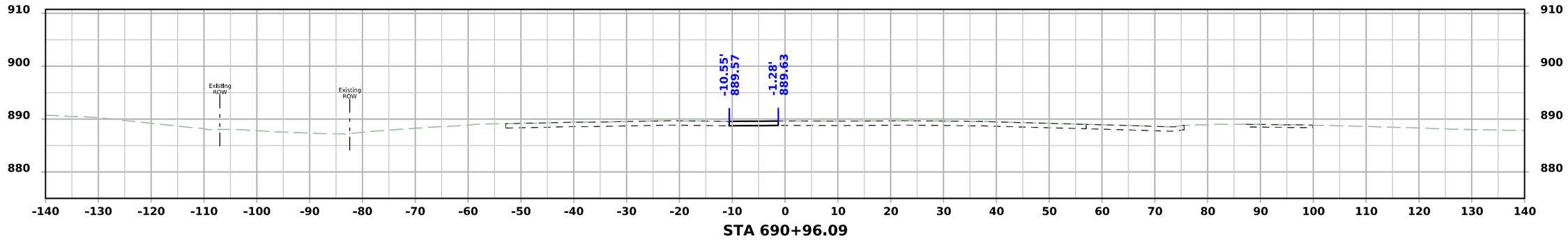
STA 689+75.00

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER W.111

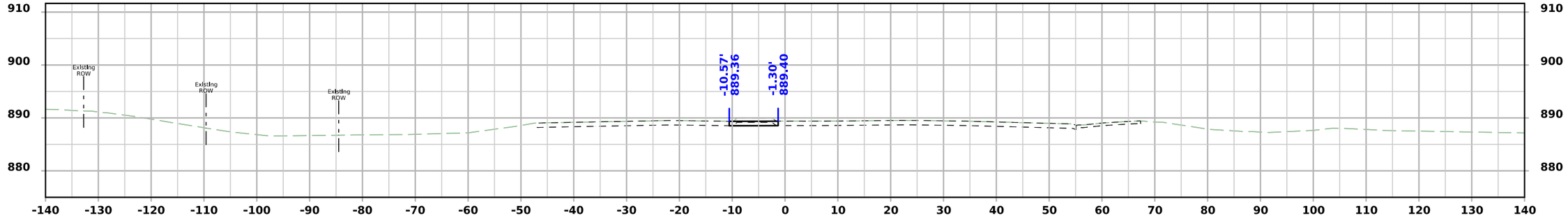
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V2

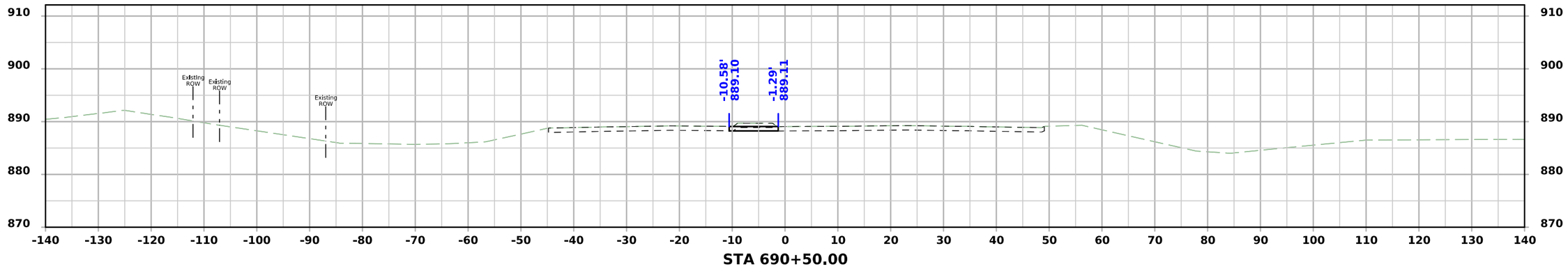
US 6 / Hickman Road - Stage 1



STA 690+96.09



STA 690+75.00



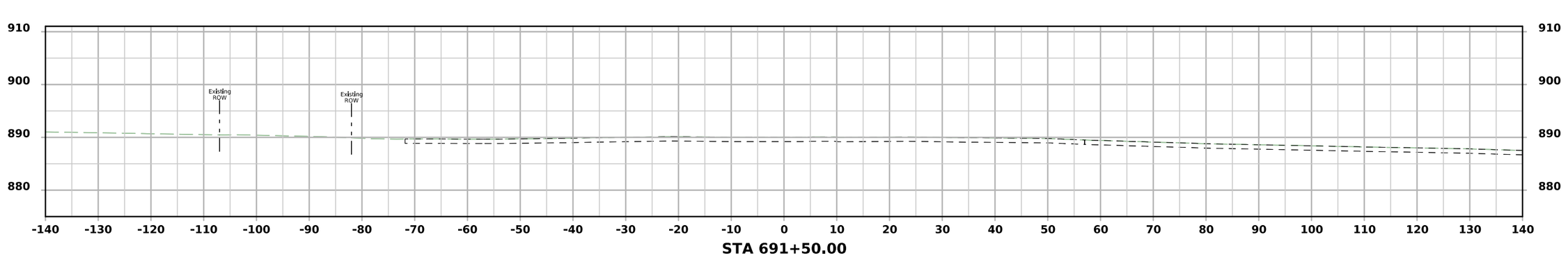
STA 690+50.00

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER W.112	

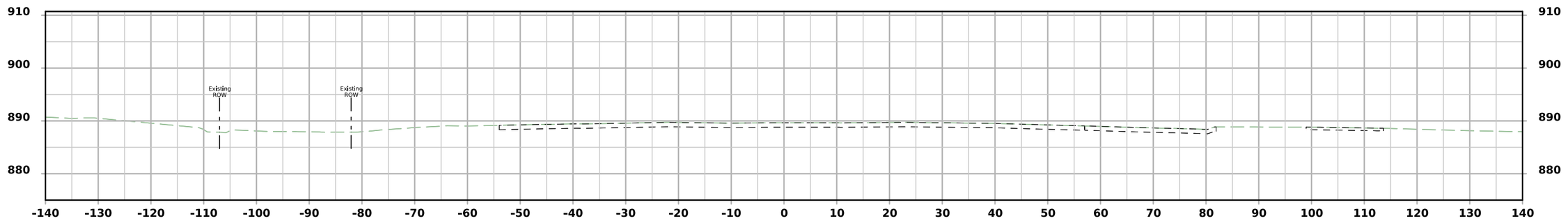
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V2

US 6 / Hickman Road - Stage 1



STA 691+50.00



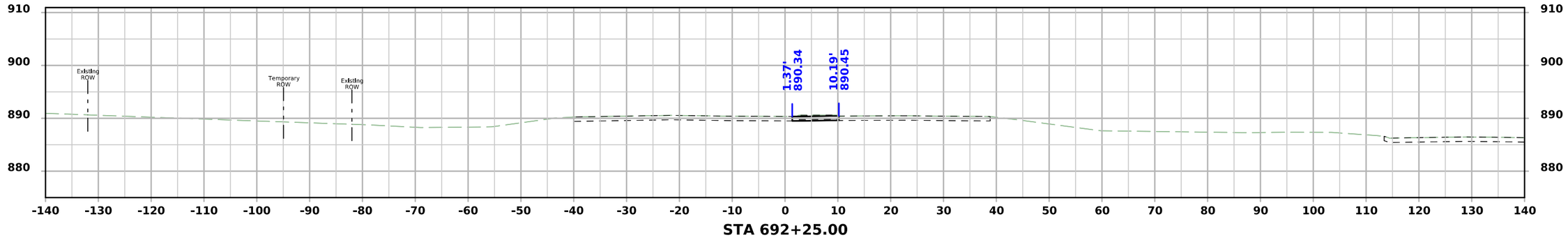
STA 691+00.00

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER W.113

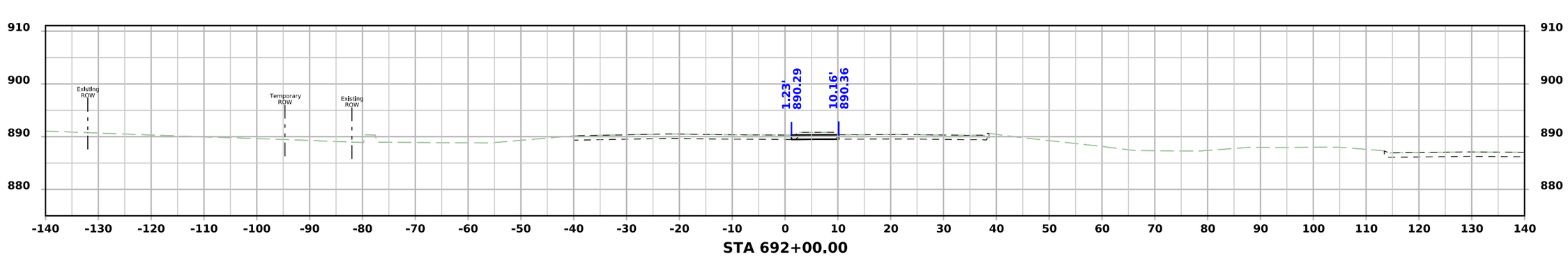
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V2

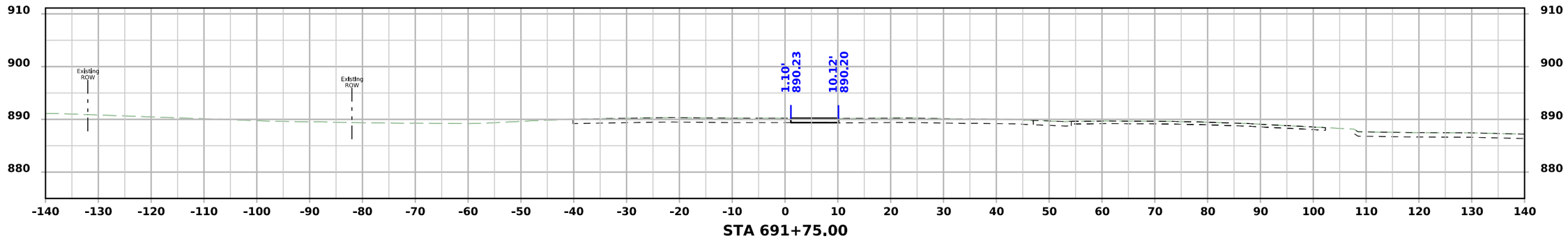
US 6 / Hickman Road - Stage 1



STA 692+25.00



STA 692+00.00



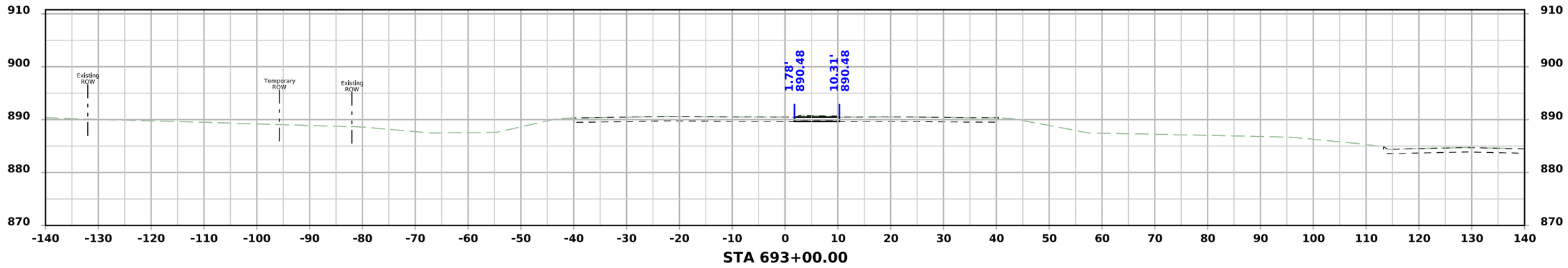
STA 691+75.00

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER W.114

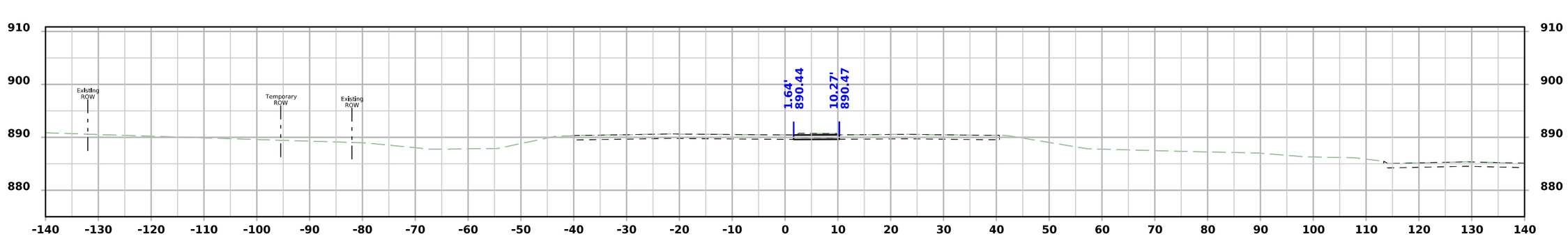
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V2

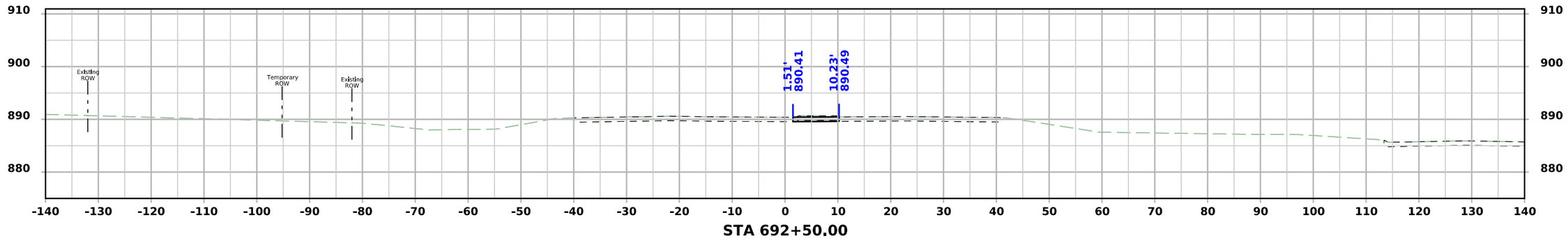
US 6 / Hickman Road - Stage 1



STA 693+00.00



STA 692+75.00



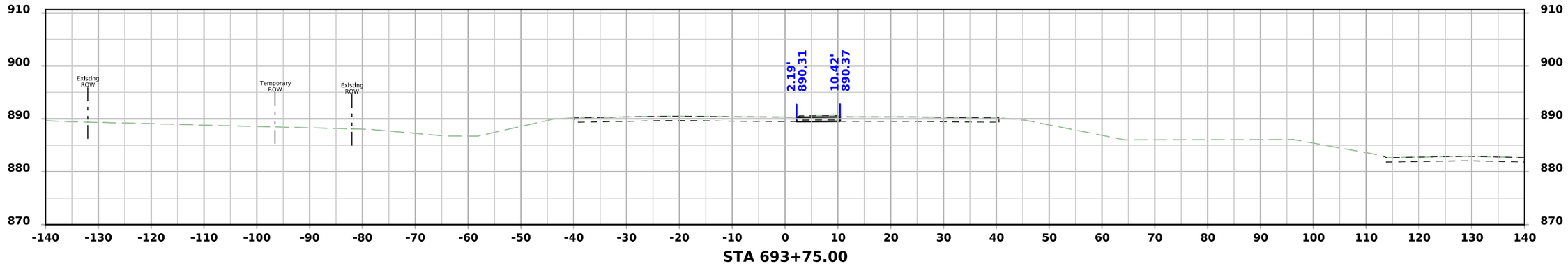
STA 692+50.00

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER W.115

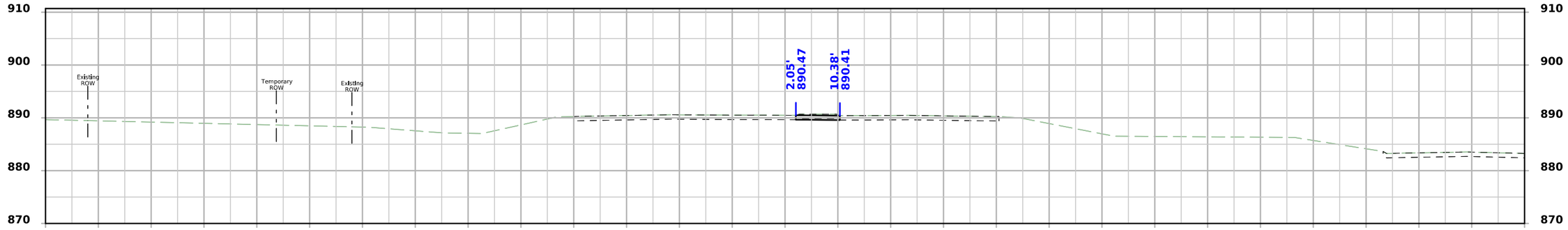
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V2

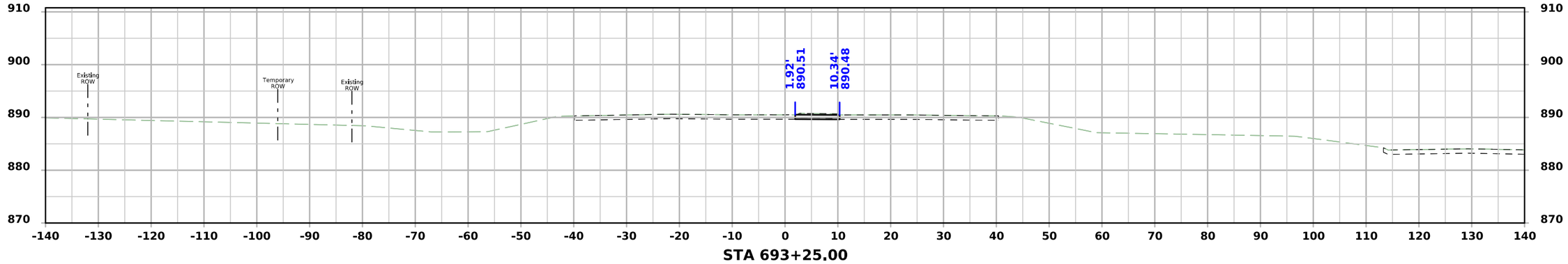
US 6 / Hickman Road - Stage 1



STA 693+75.00



STA 693+50.00



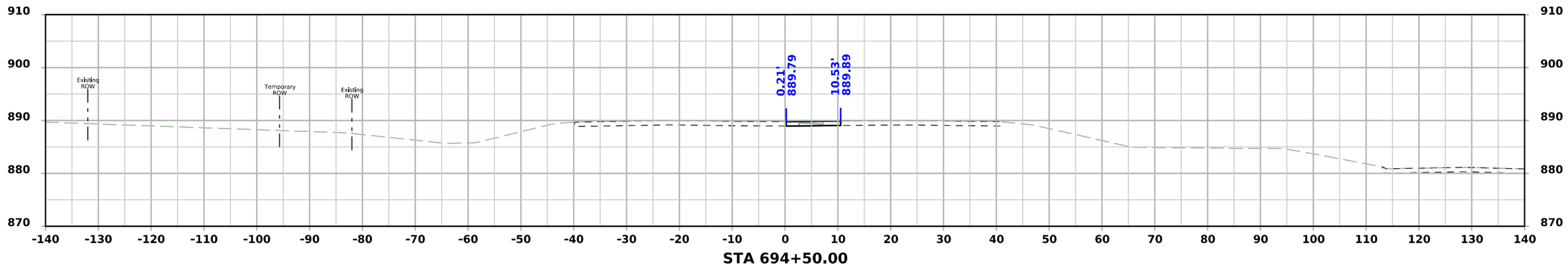
STA 693+25.00

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER W.116

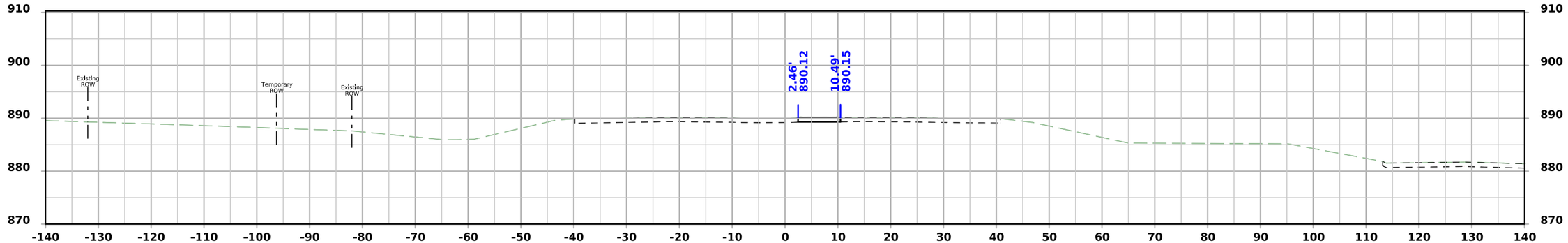
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V2

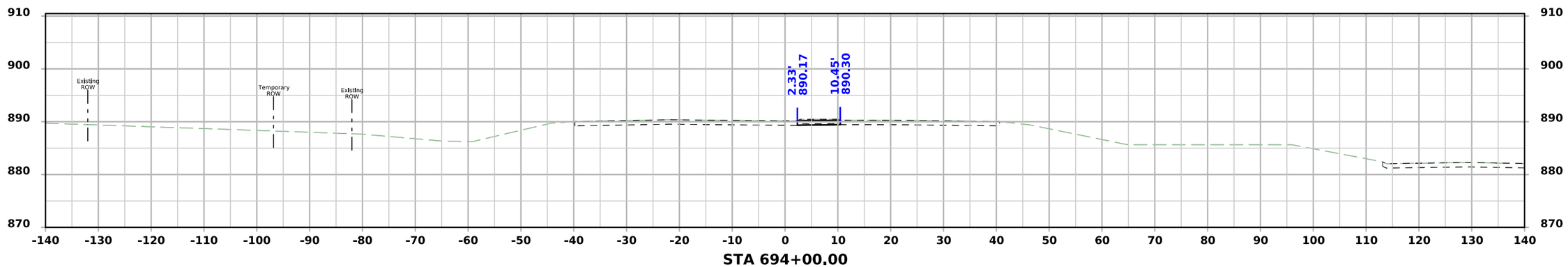
US 6 / Hickman Road - Stage 1



STA 694+50.00



STA 694+25.00



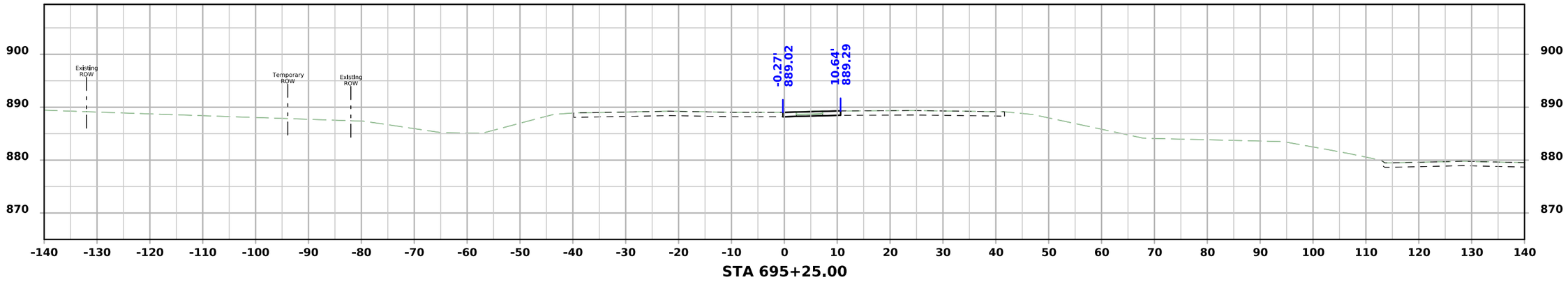
STA 694+00.00

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER W.117

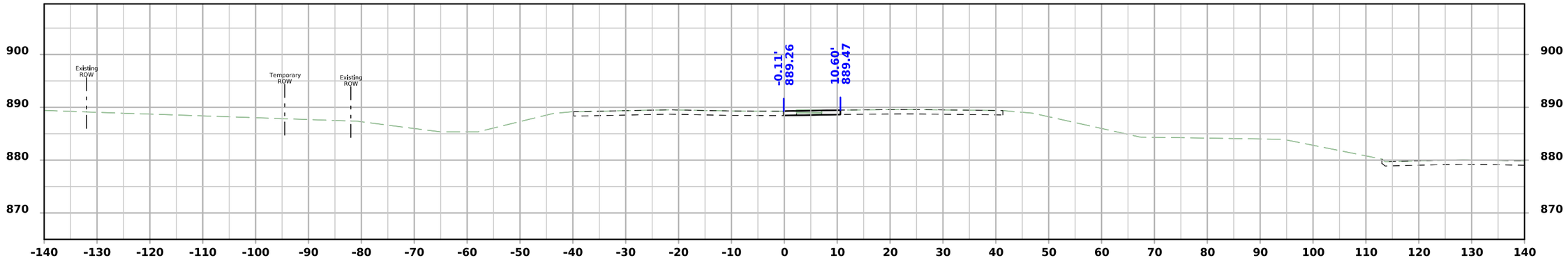
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V2

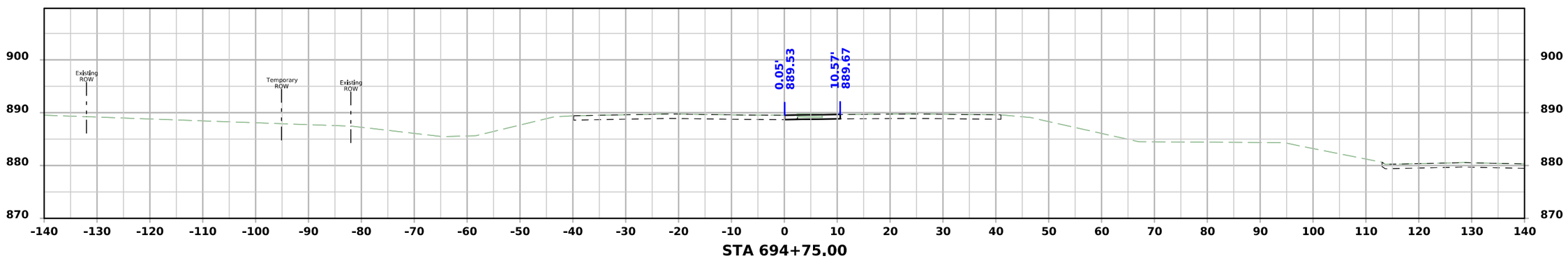
US 6 / Hickman Road - Stage 1



STA 695+25.00



STA 695+00.00



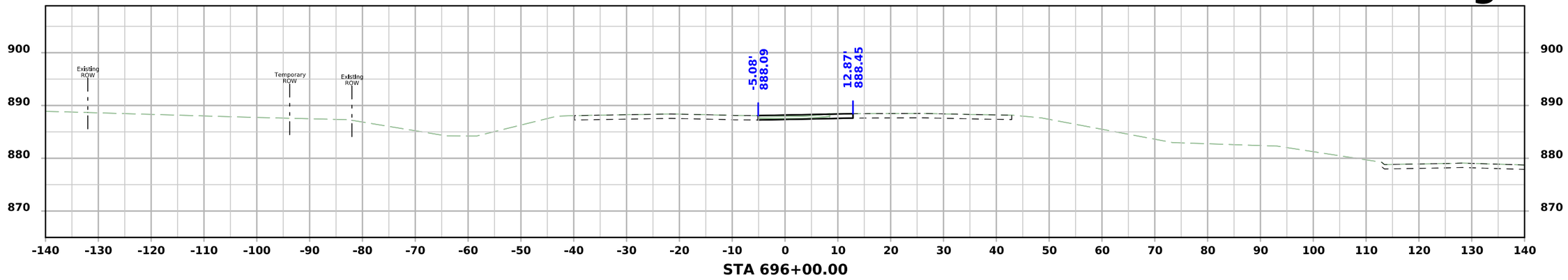
STA 694+75.00

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER W.118

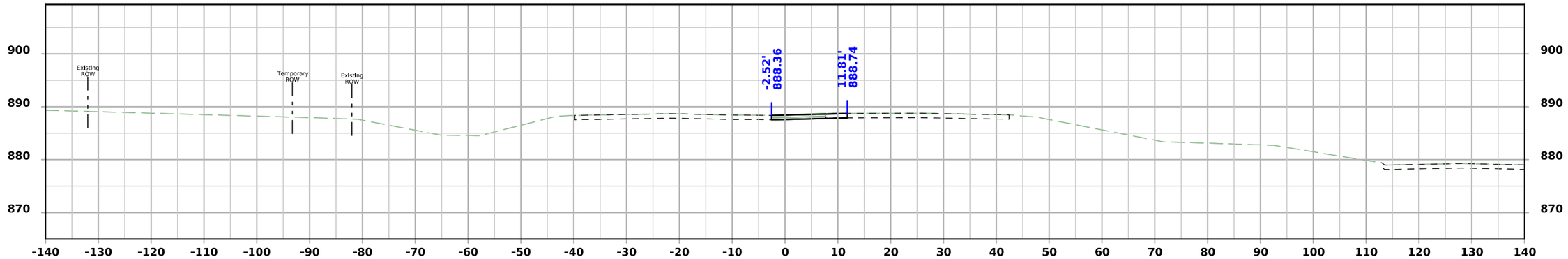
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V2

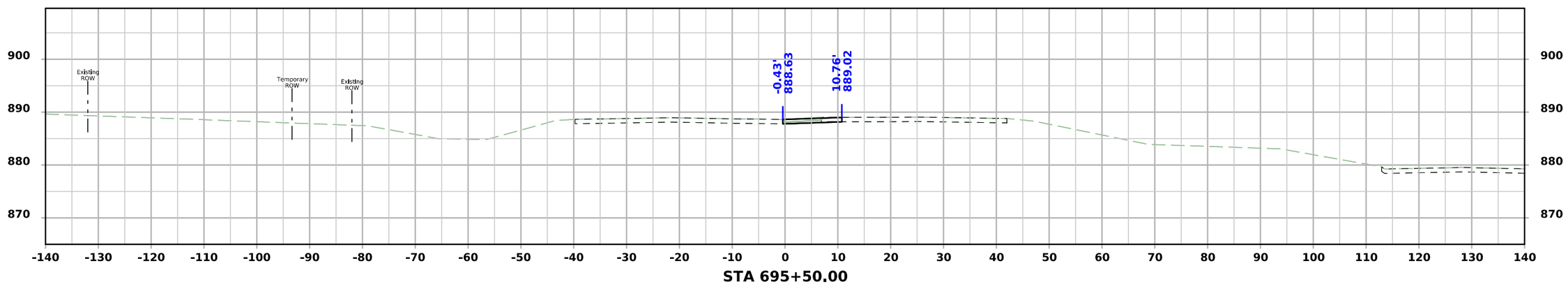
US 6 / Hickman Road - Stage 1



STA 696+00.00



STA 695+75.00



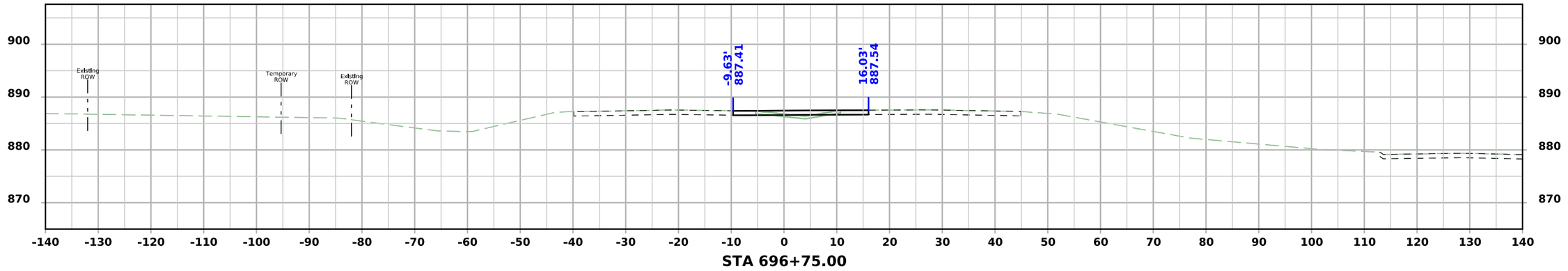
STA 695+50.00

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER W.119

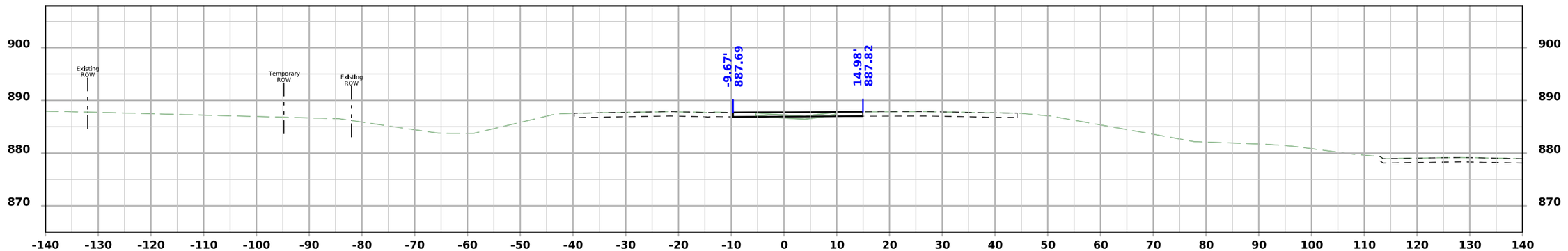
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V2

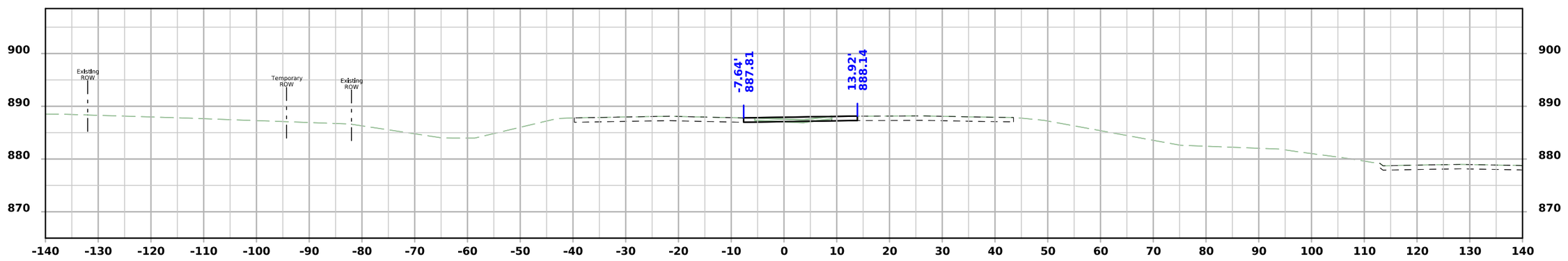
US 6 / Hickman Road - Stage 1



STA 696+75.00



STA 696+50.00



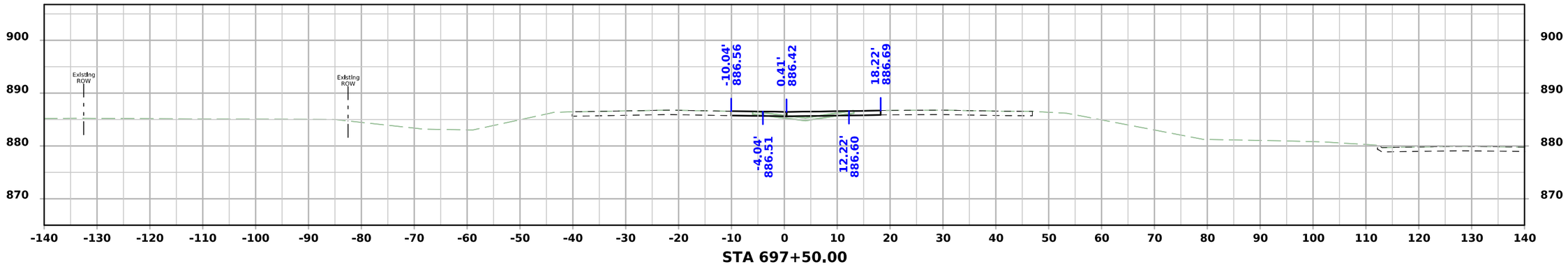
STA 696+25.00

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER W.120

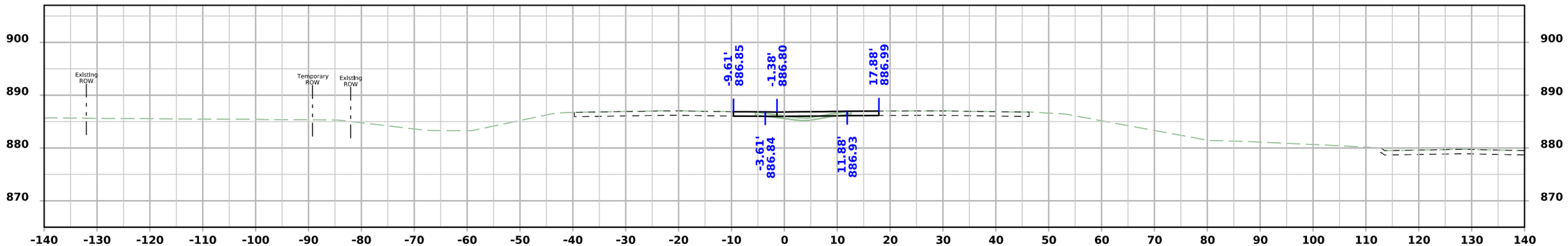
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V2

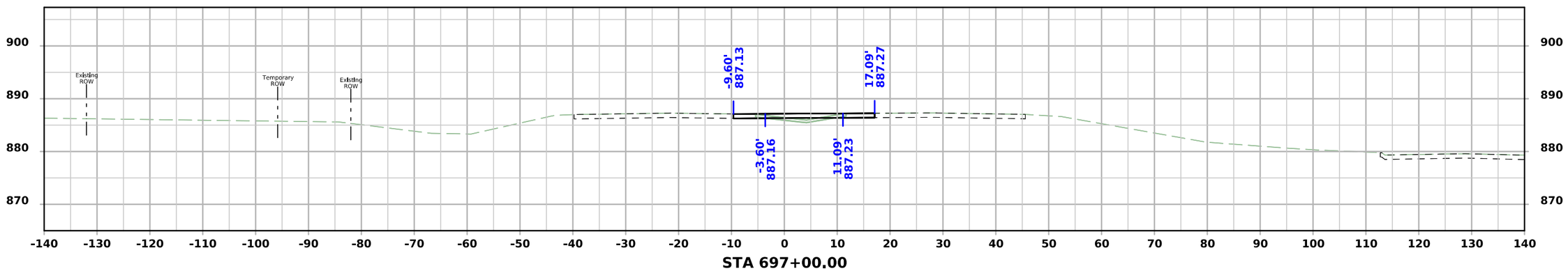
US 6 / Hickman Road - Stage 1



STA 697+50.00



STA 697+25.00



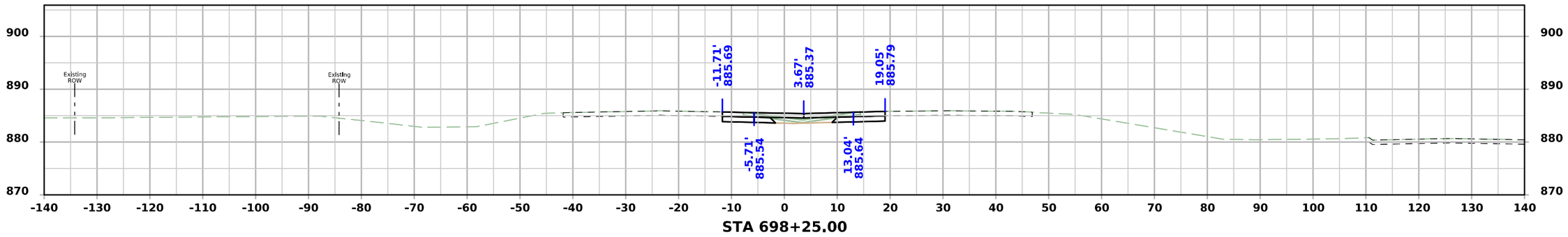
STA 697+00.00

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER W.121

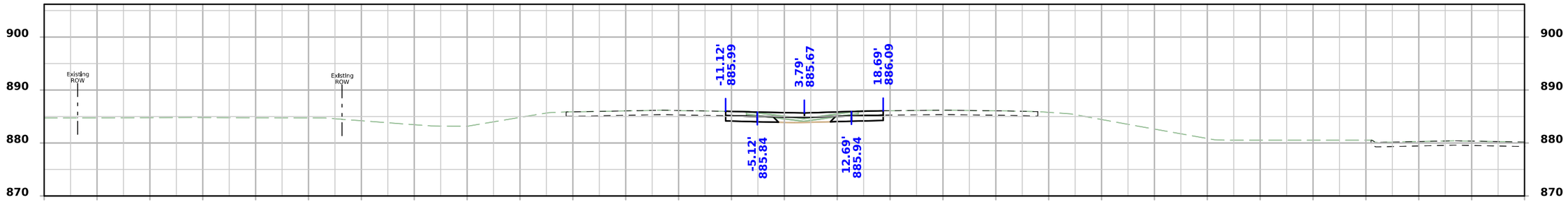
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V2

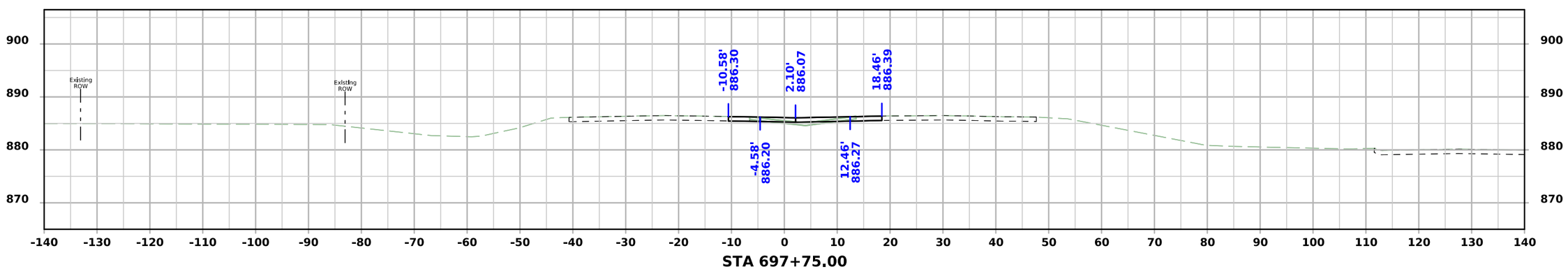
US 6 / Hickman Road - Stage 1



STA 698+25.00



STA 698+00.00



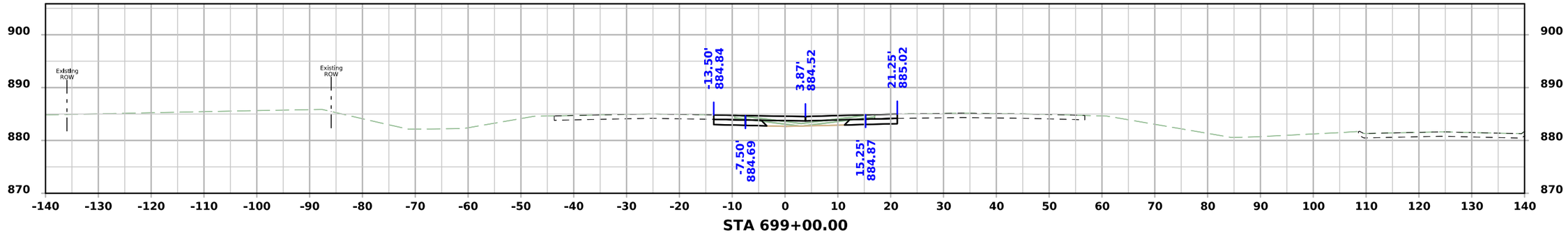
STA 697+75.00

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER W.122

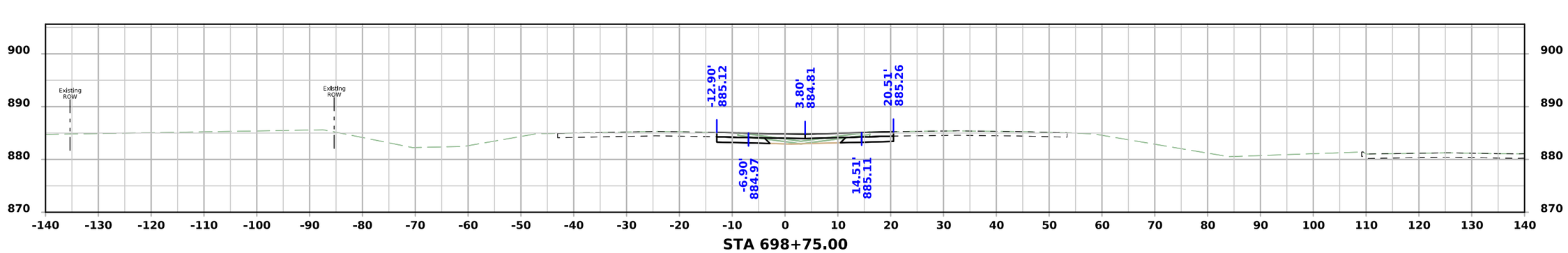
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V2

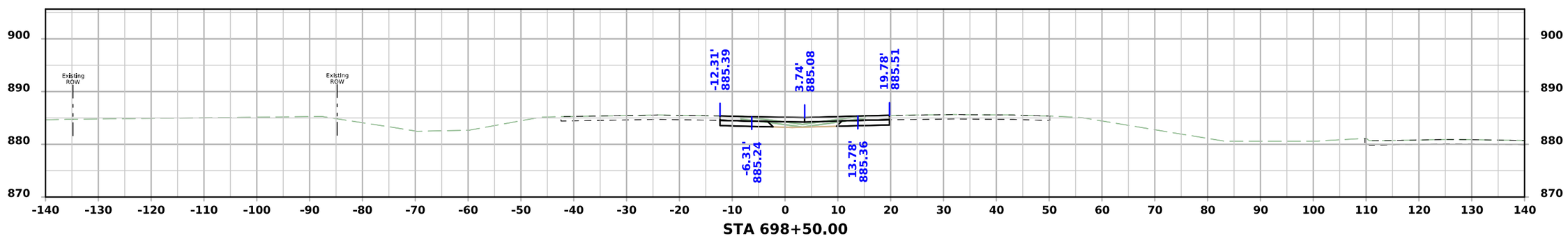
US 6 / Hickman Road - Stage 1



STA 699+00.00



STA 698+75.00



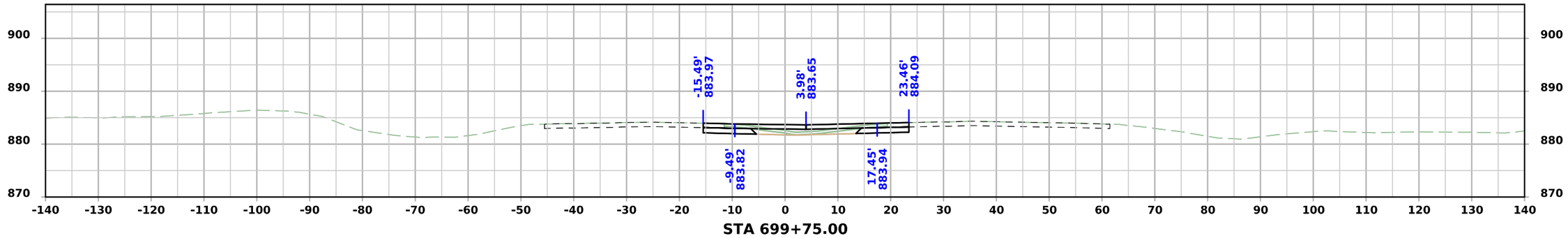
STA 698+50.00

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER W.123

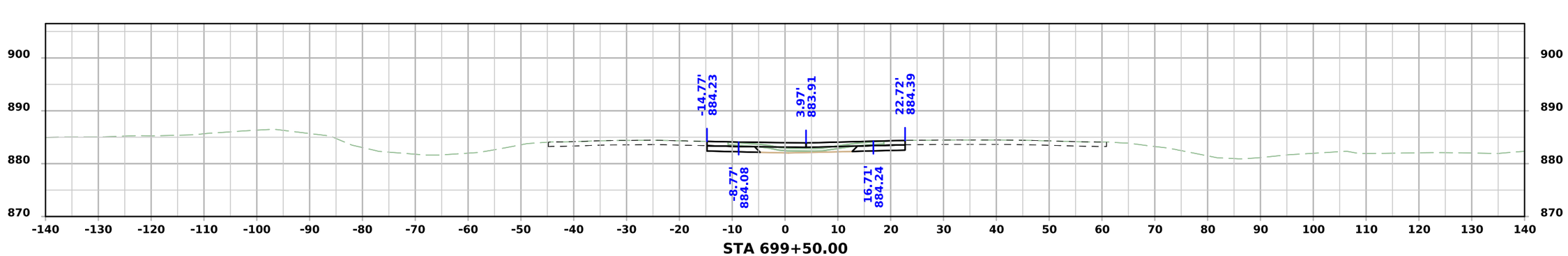
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V2

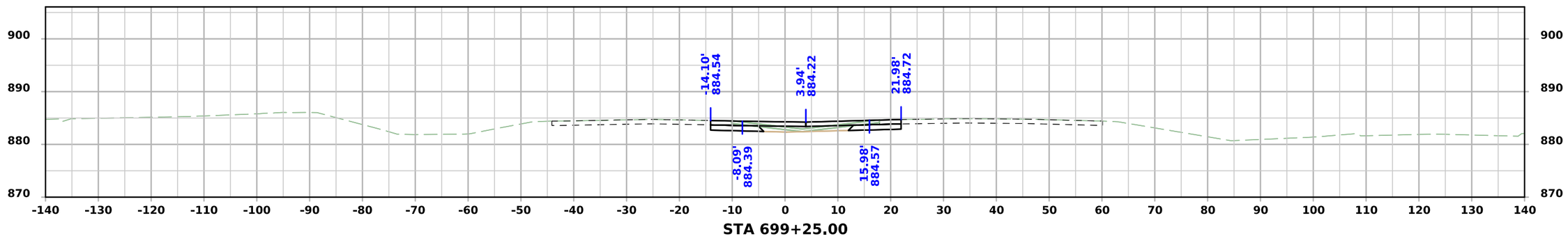
US 6 / Hickman Road - Stage 1



STA 699+75.00



STA 699+50.00



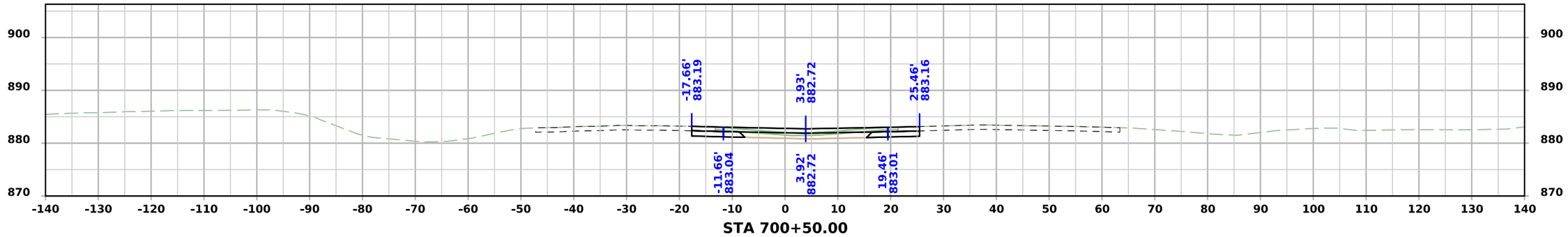
STA 699+25.00

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER W.124

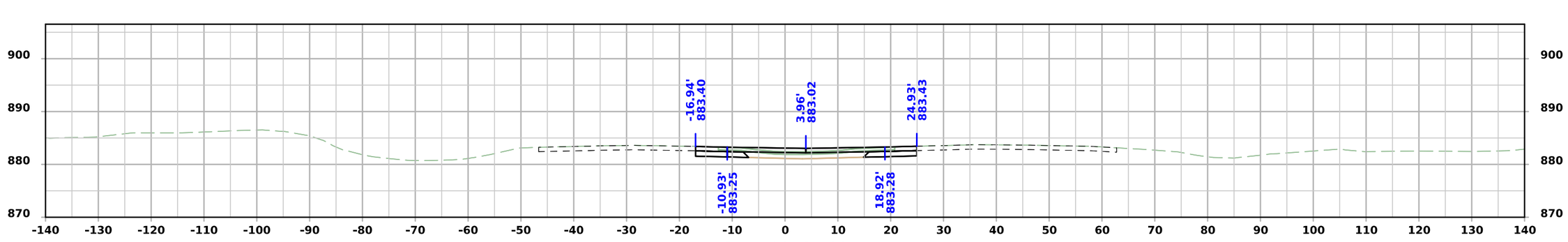
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V2

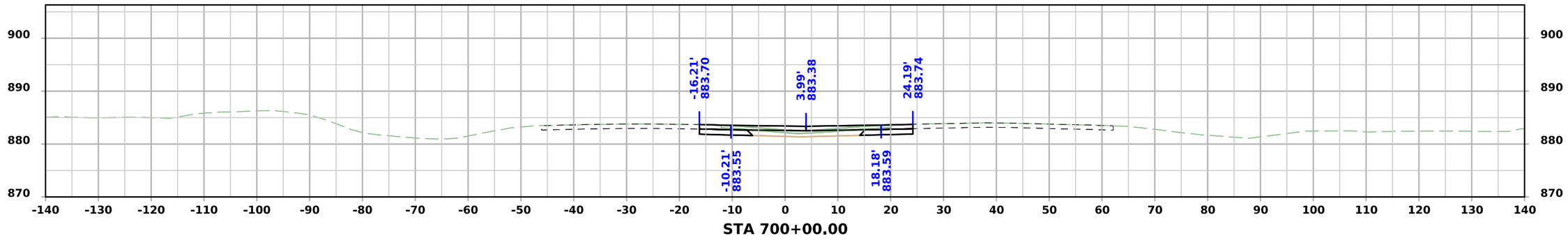
US 6 / Hickman Road - Stage 1



STA 700+50.00



STA 700+25.00



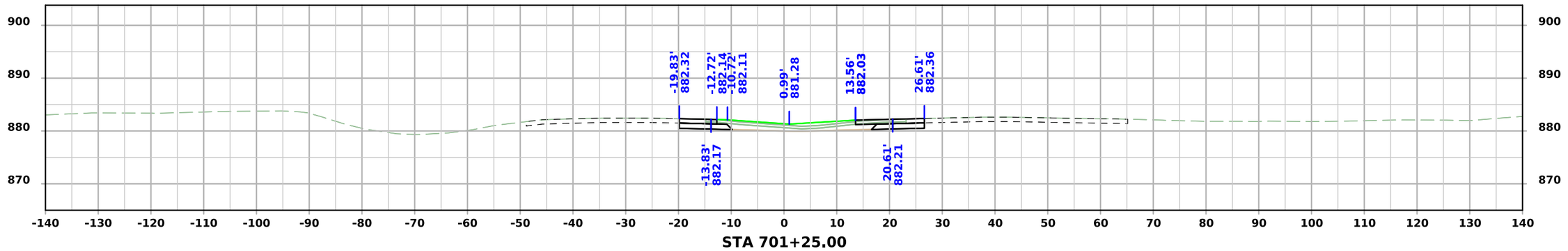
STA 700+00.00

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER W.125	

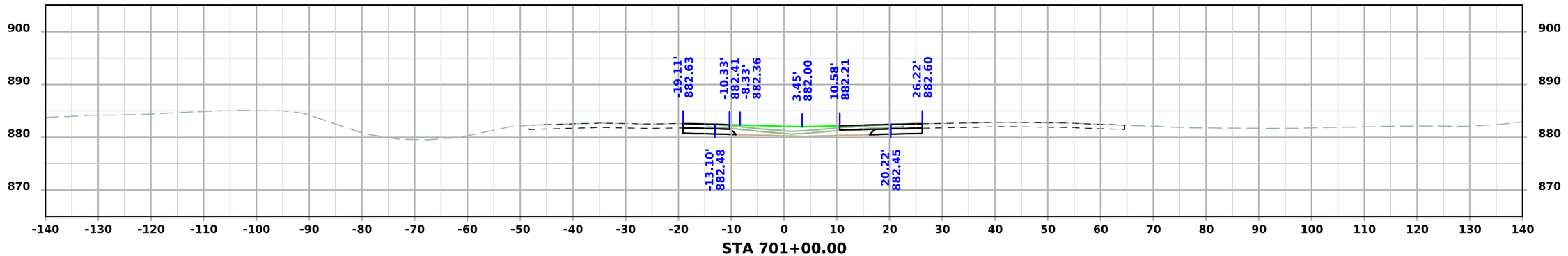
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V2

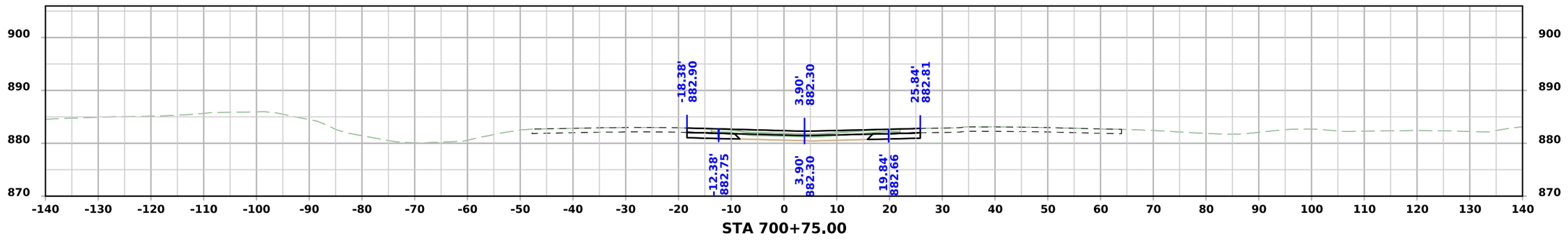
US 6 / Hickman Road - Stage 1



STA 701+25.00



STA 701+00.00



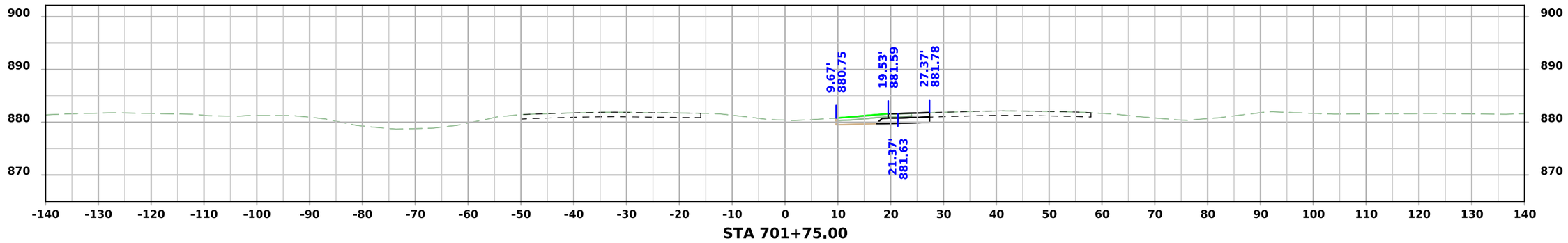
STA 700+75.00

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER W.126

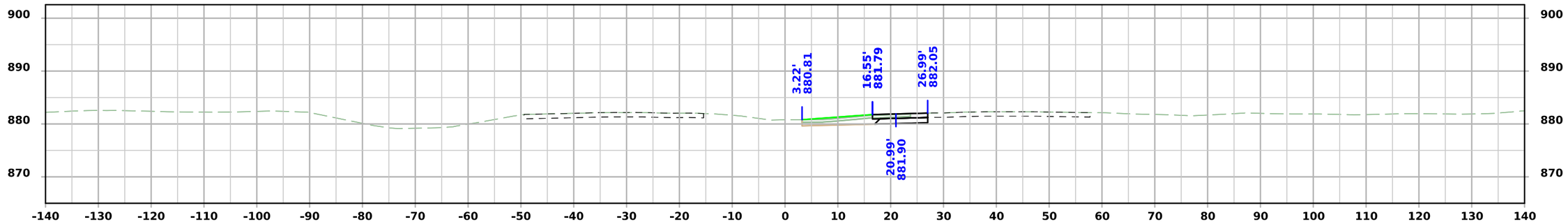
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V2

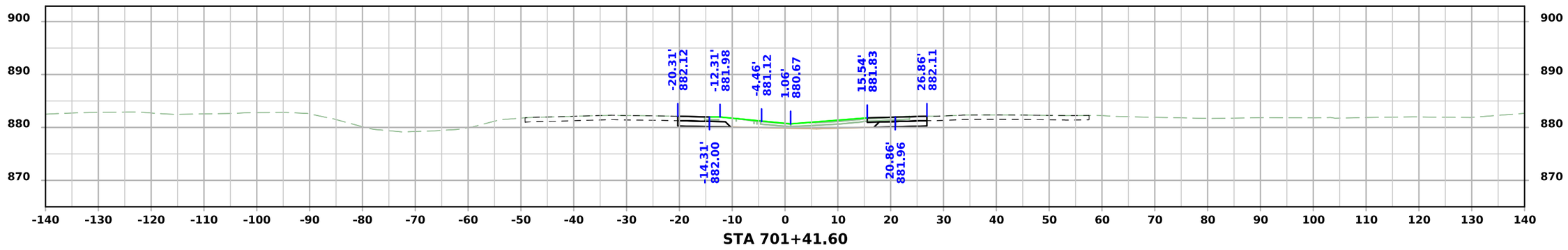
US 6 / Hickman Road - Stage 1



STA 701+75.00



STA 701+50.00



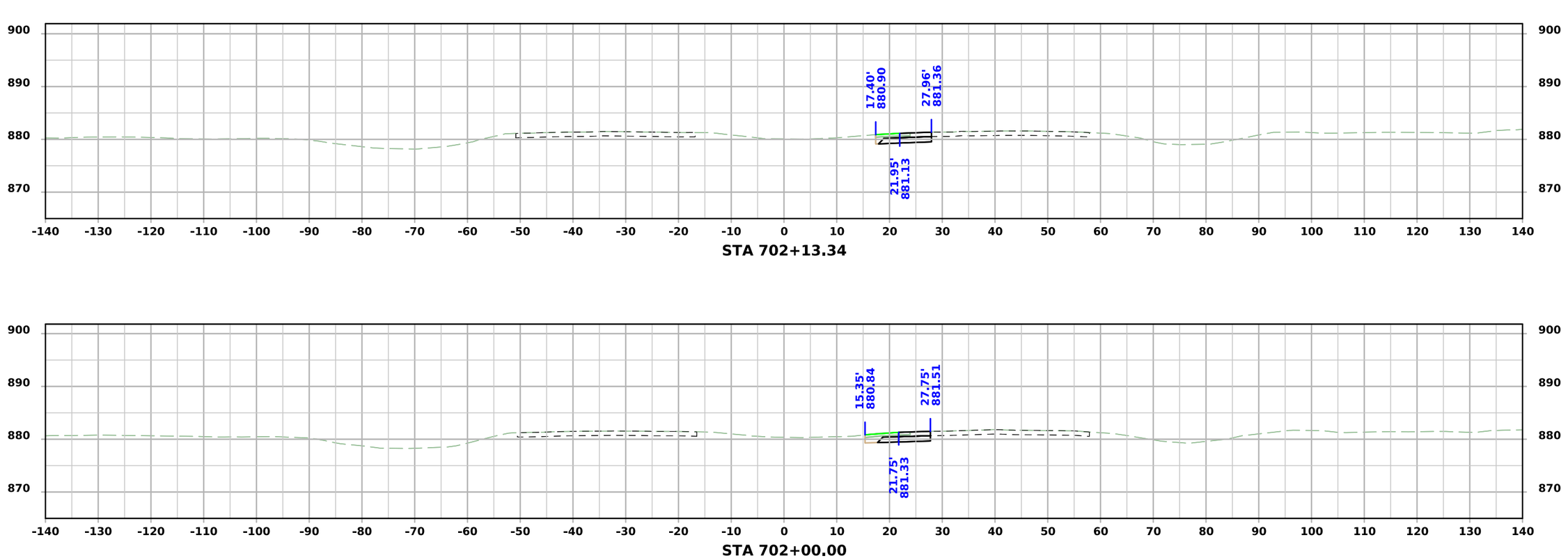
STA 701+41.60

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER W.127

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V2

US 6 / Hickman Road - Stage 1



STA 702+13.34

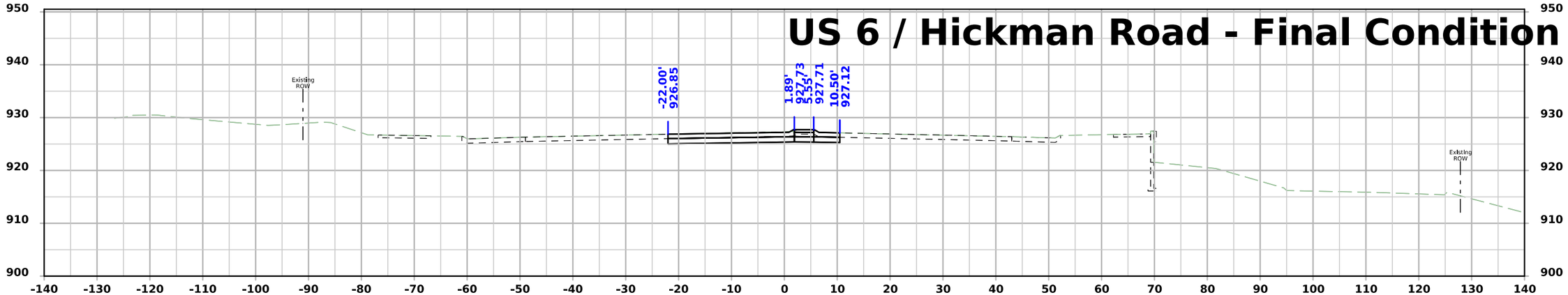
STA 702+00.00

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER W.128

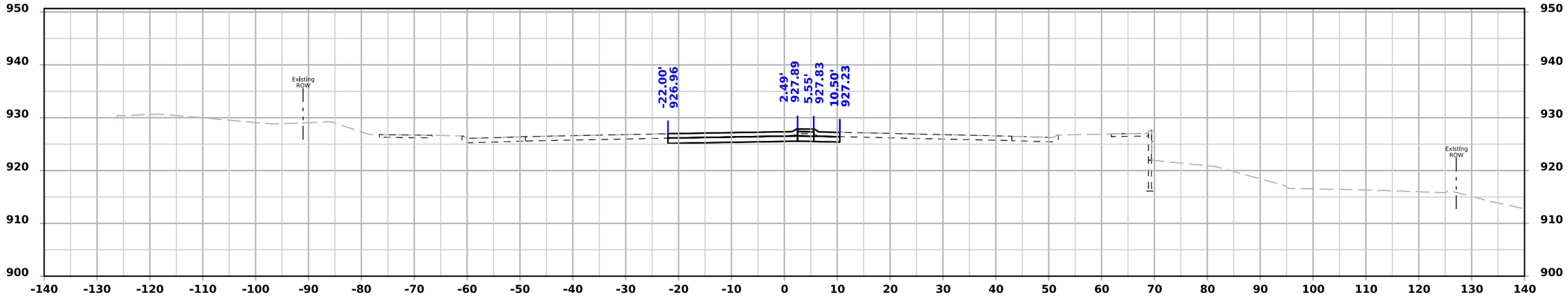
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V2

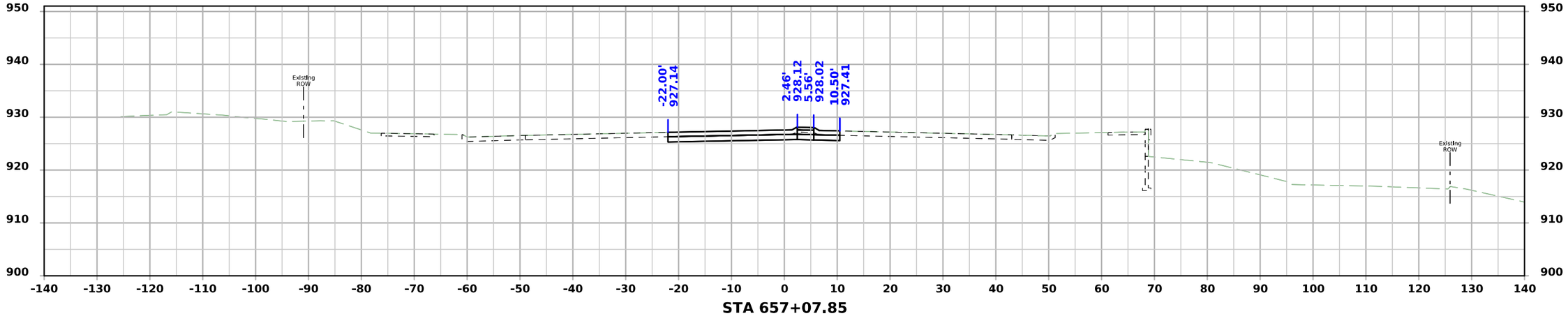
US 6 / Hickman Road - Final Condition



STA 657+25.00



STA 657+18.26



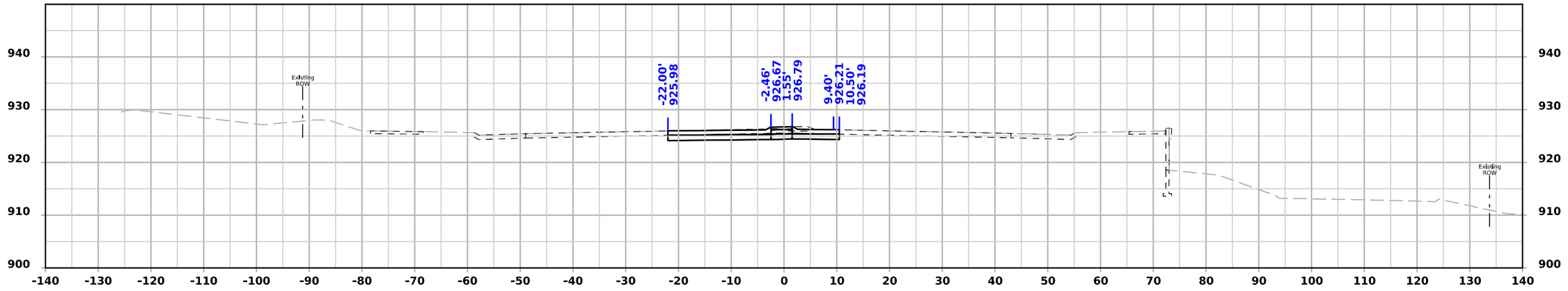
STA 657+07.85

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER W.200

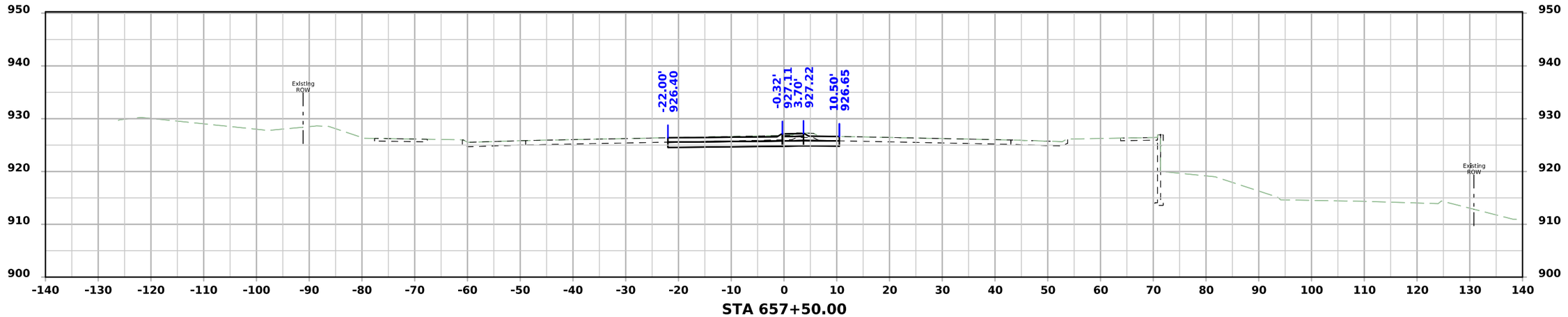
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V2

US 6 / Hickman Road - Final Condition



STA 657+75.00



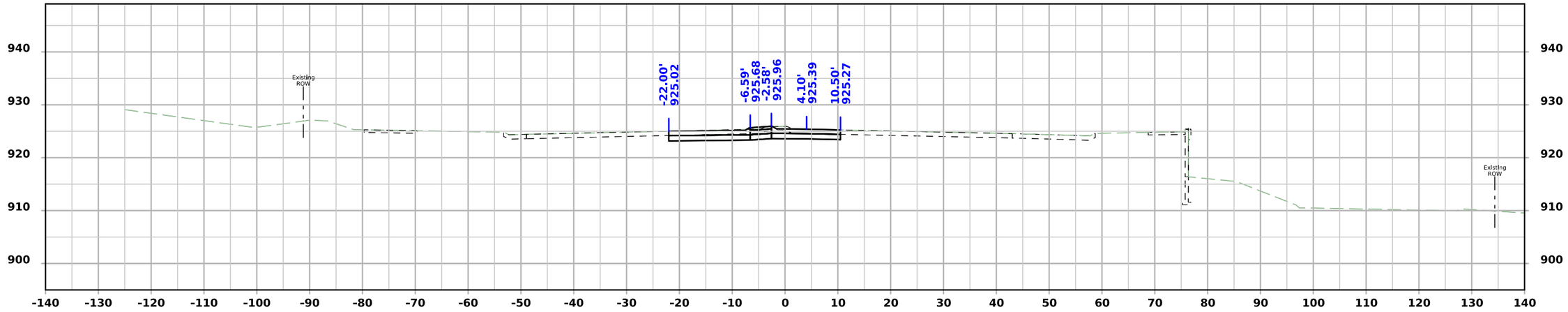
STA 657+50.00

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER W.201

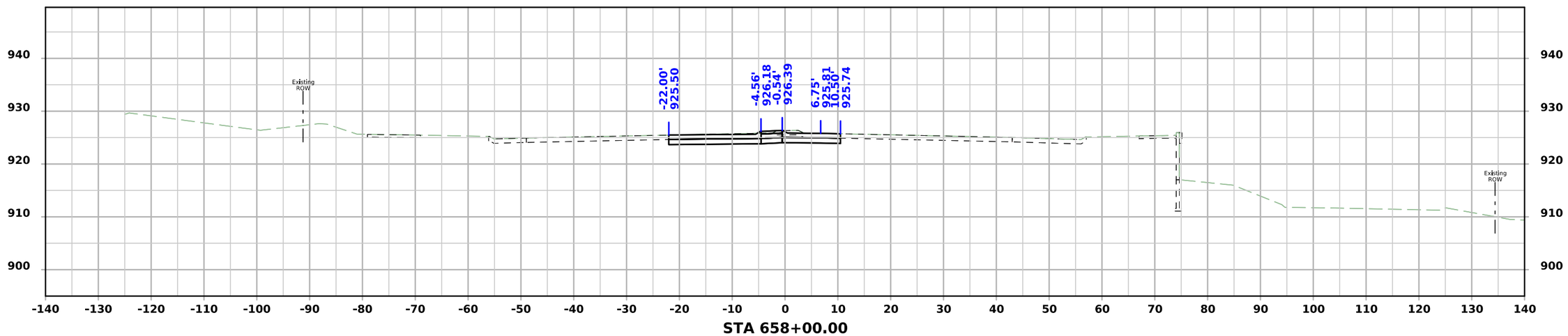
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V2

US 6 / Hickman Road - Final Condition



STA 658+25.00



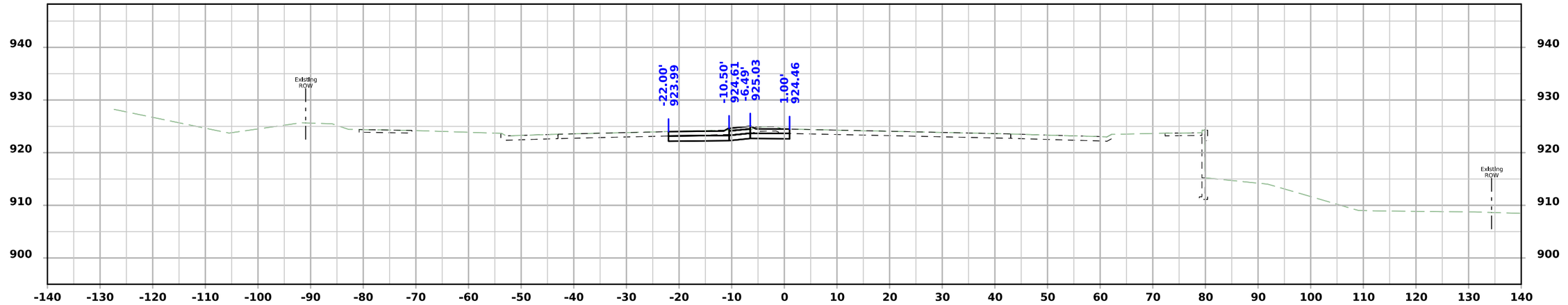
STA 658+00.00

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER W.202	

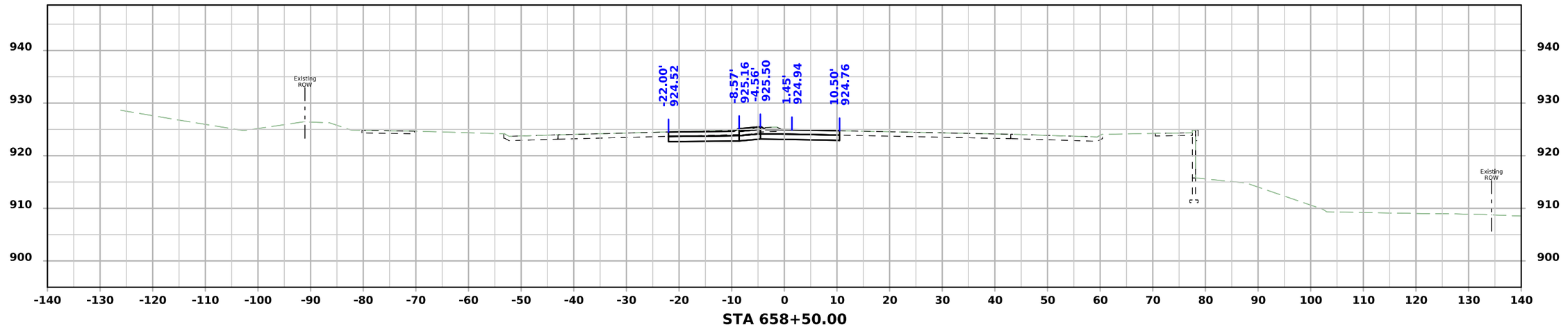
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V2

US 6 / Hickman Road - Final Condition



STA 658+75.00



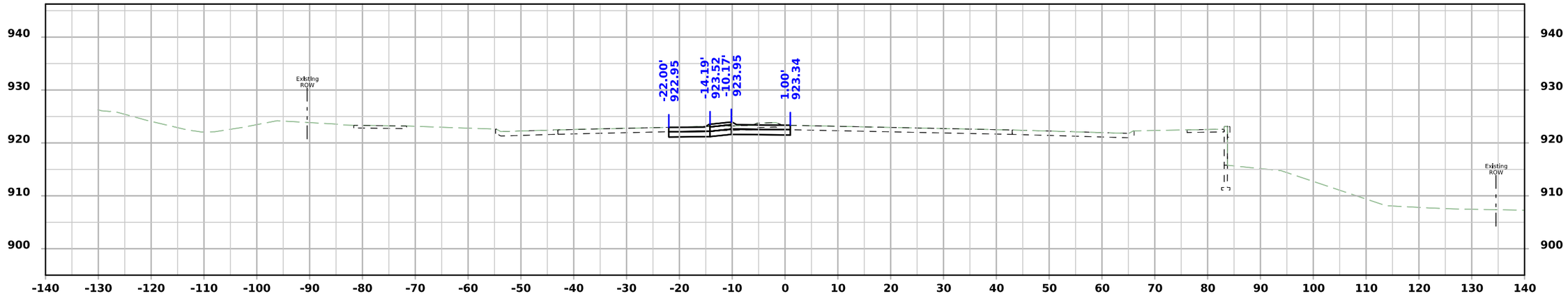
STA 658+50.00

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER W.203

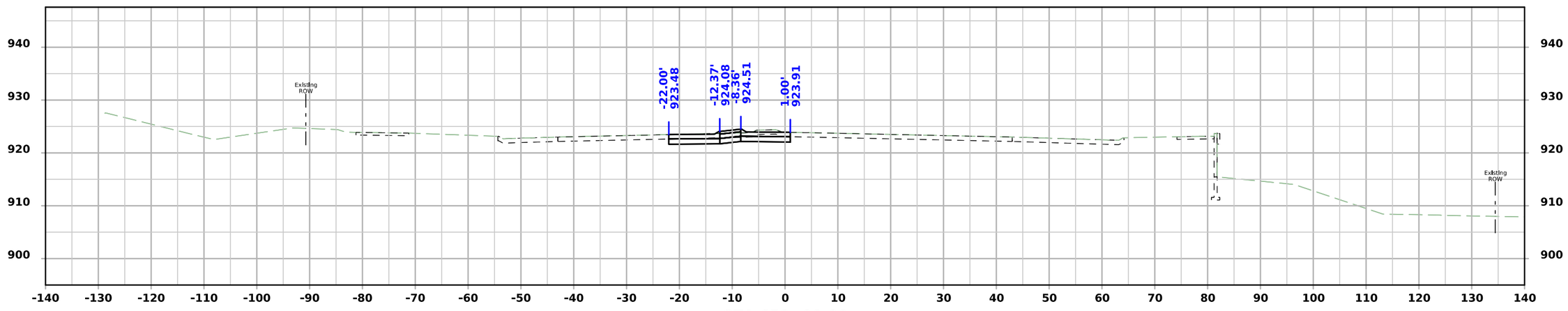
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V2

US 6 / Hickman Road - Final Condition



STA 659+25.00



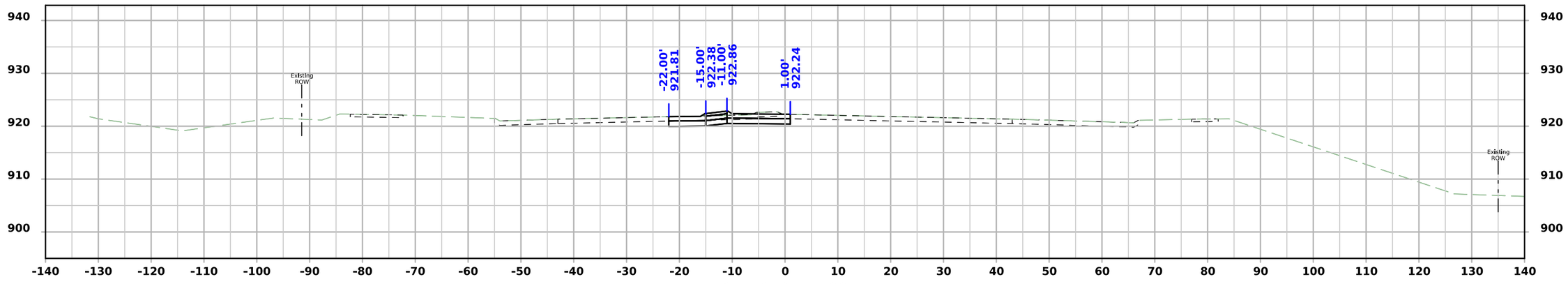
STA 659+00.00

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER W.204

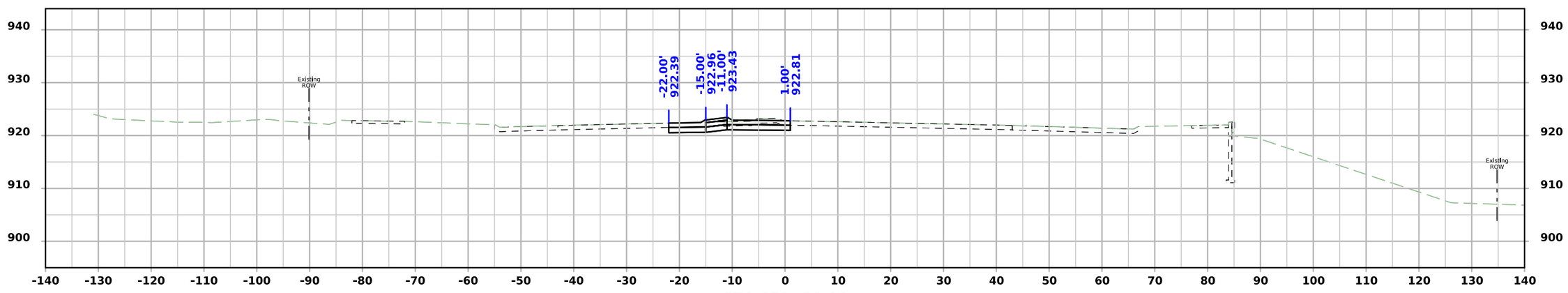
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V2

US 6 / Hickman Road - Final Condition



STA 659+75.00



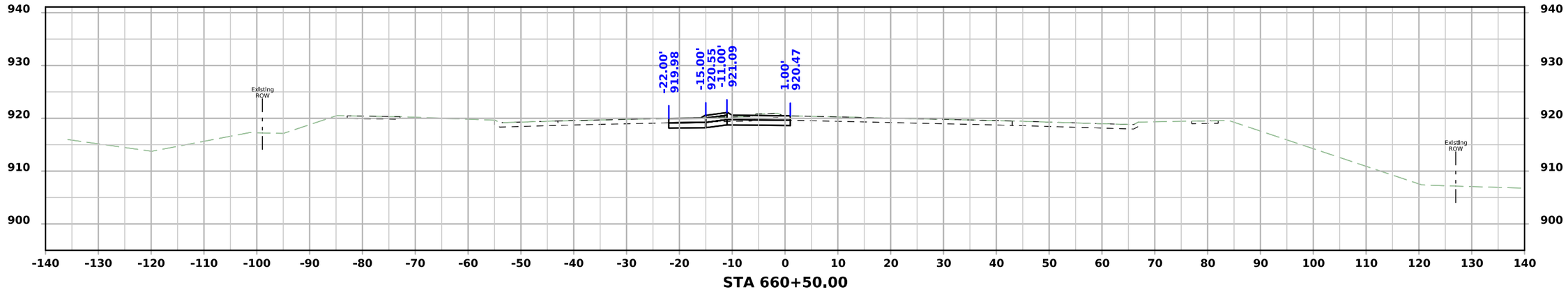
STA 659+50.00

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER W.205

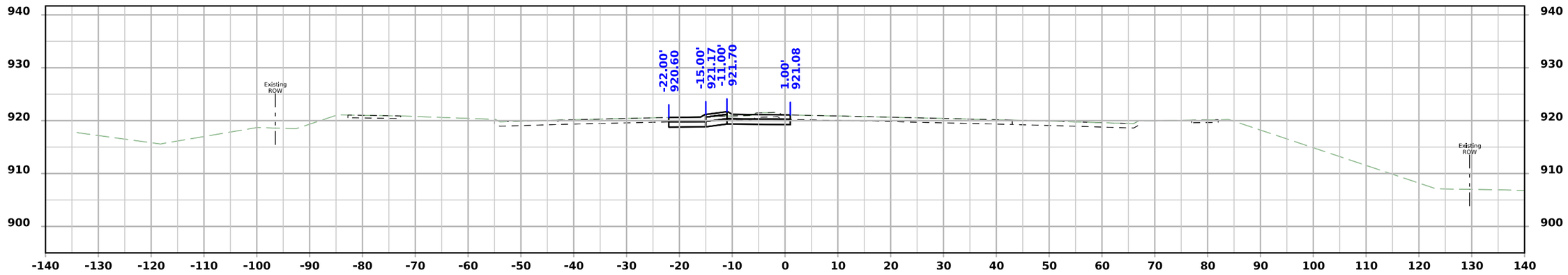
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V2

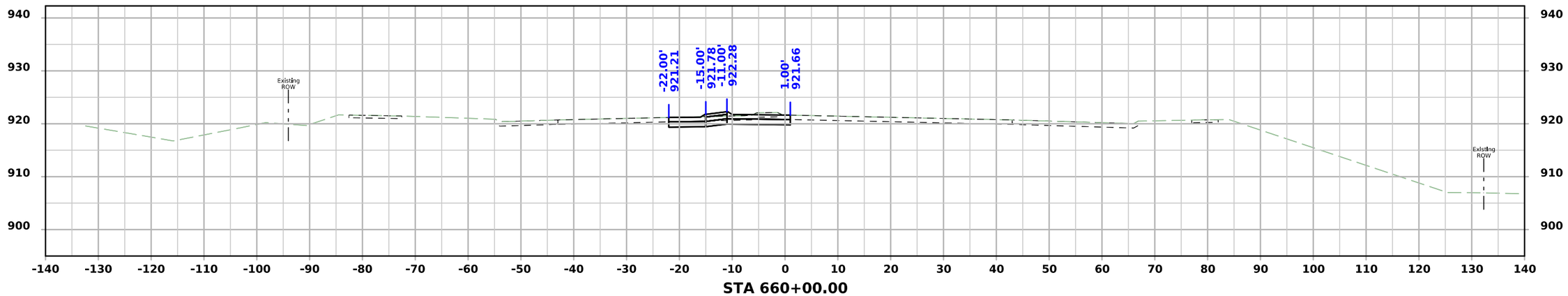
US 6 / Hickman Road - Final Condition



STA 660+50.00



STA 660+25.00



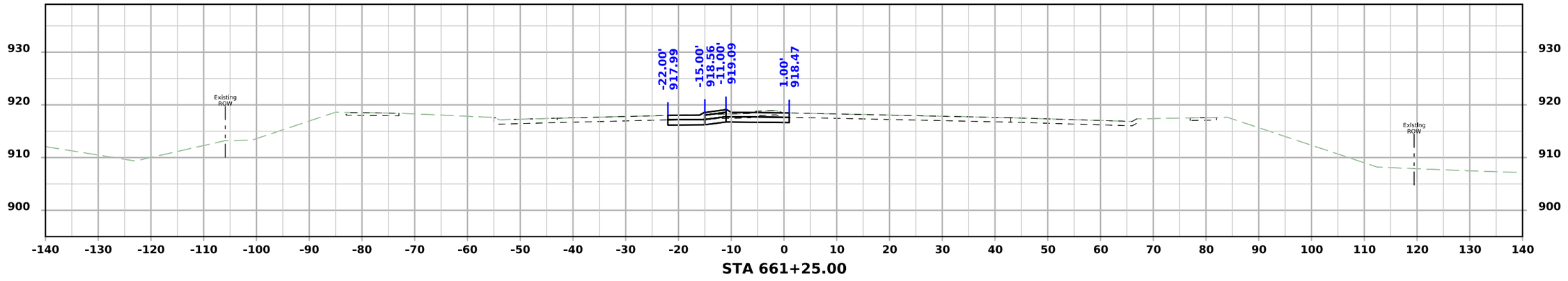
STA 660+00.00

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER W.206

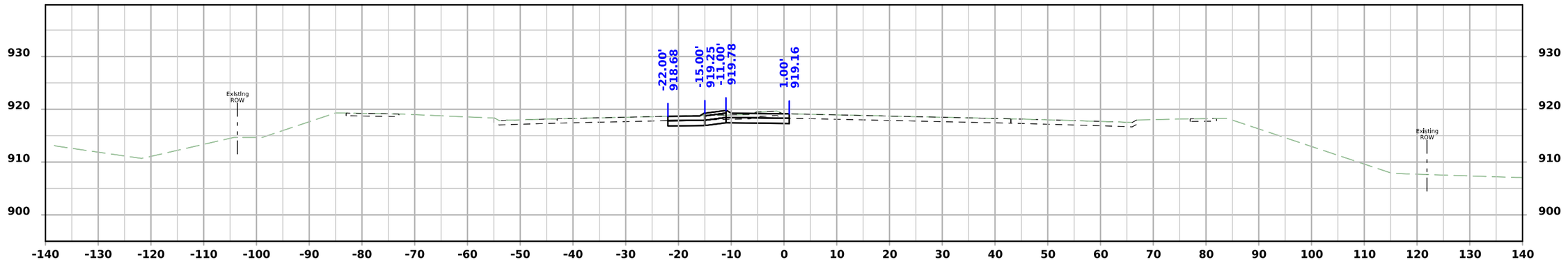
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V2

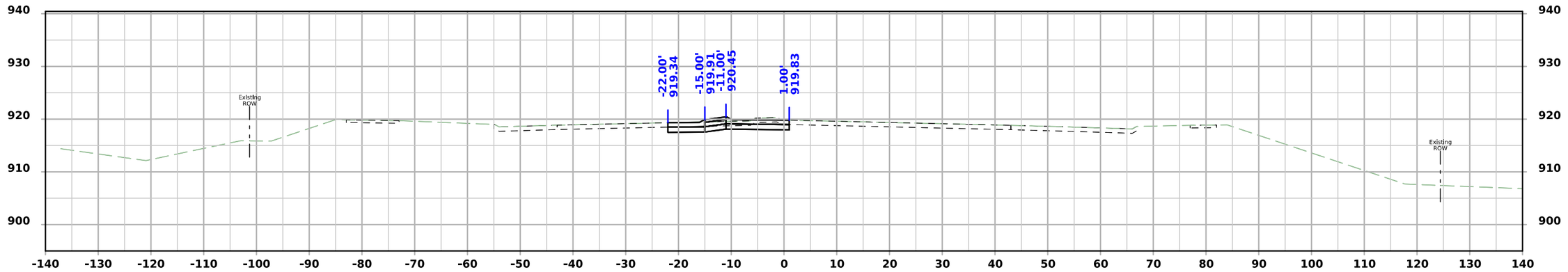
US 6 / Hickman Road - Final Condition



STA 661+25.00



STA 661+00.00



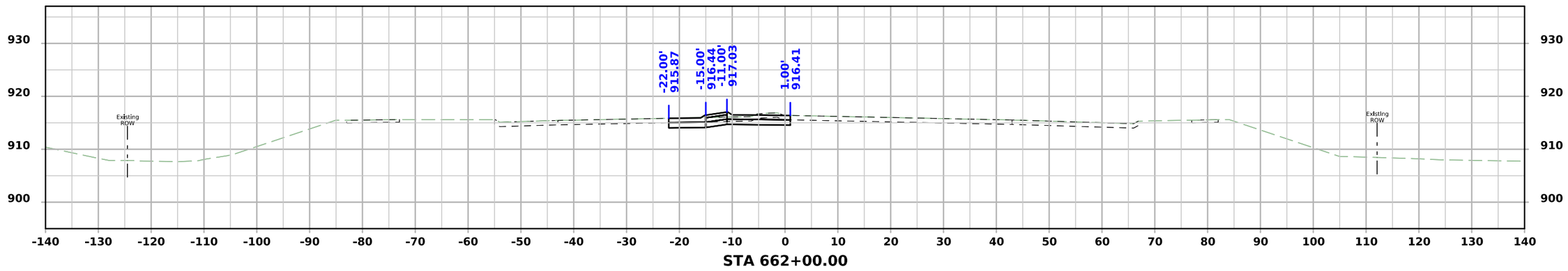
STA 660+75.00

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER W.207

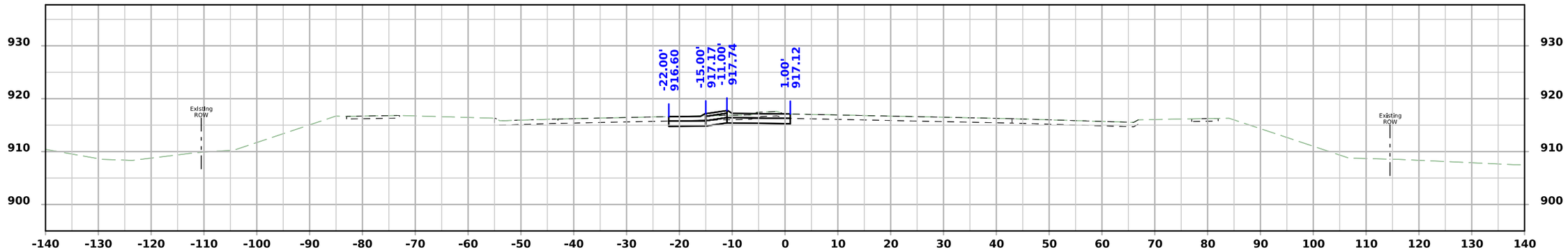
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V2

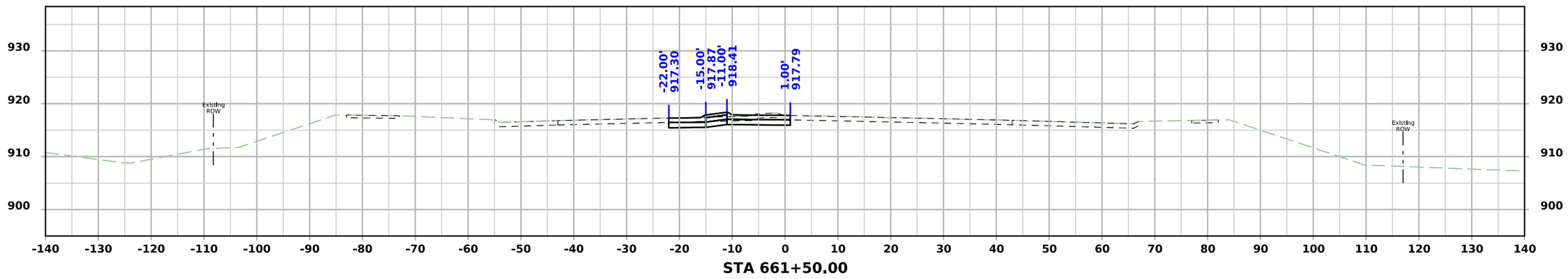
US 6 / Hickman Road - Final Condition



STA 662+00.00



STA 661+75.00



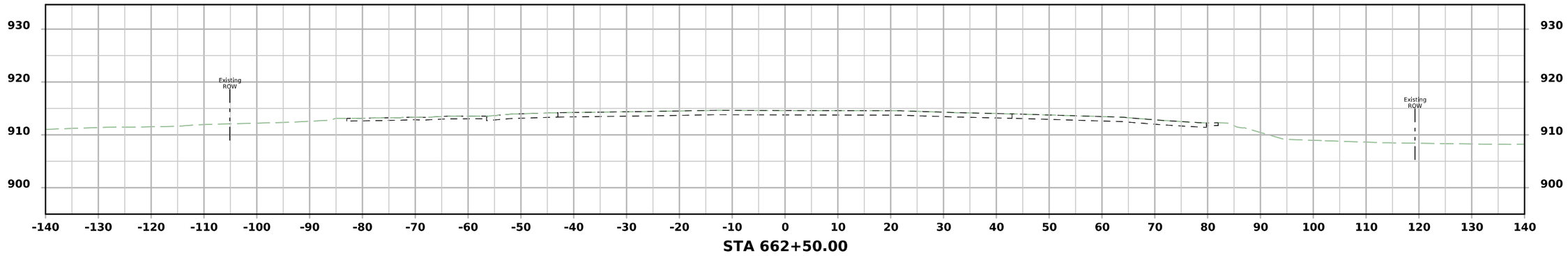
STA 661+50.00

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER W.208	

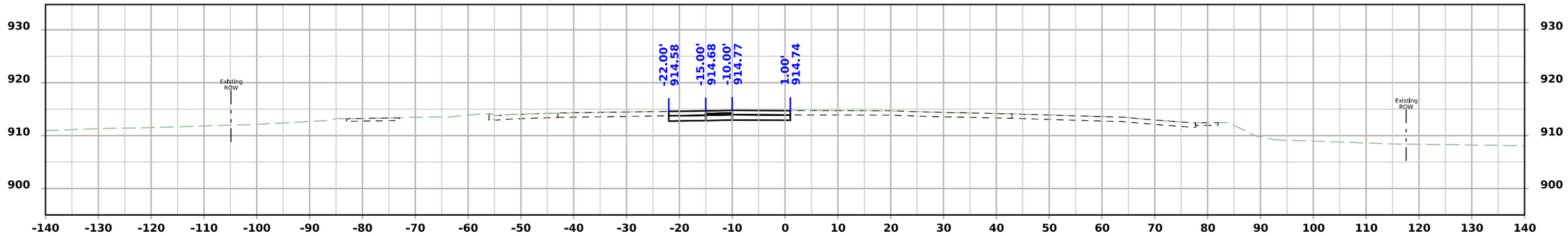
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V2

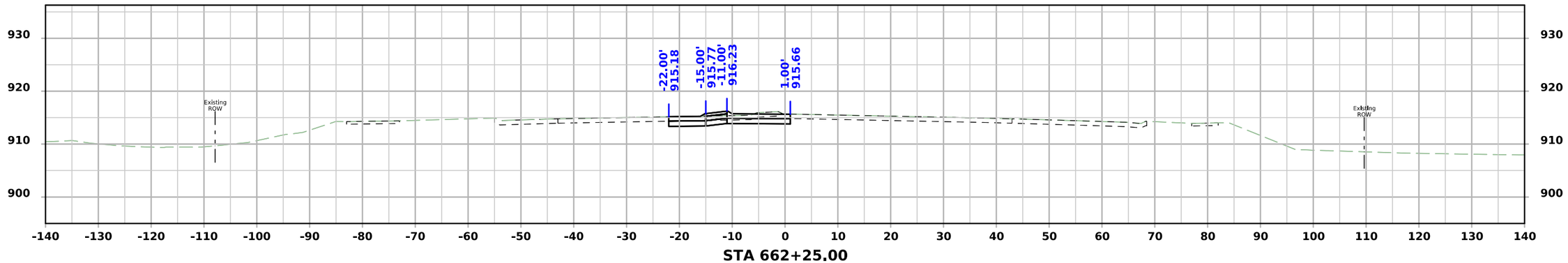
US 6 / Hickman Road - Final Condition



STA 662+50.00



STA 662+47.00



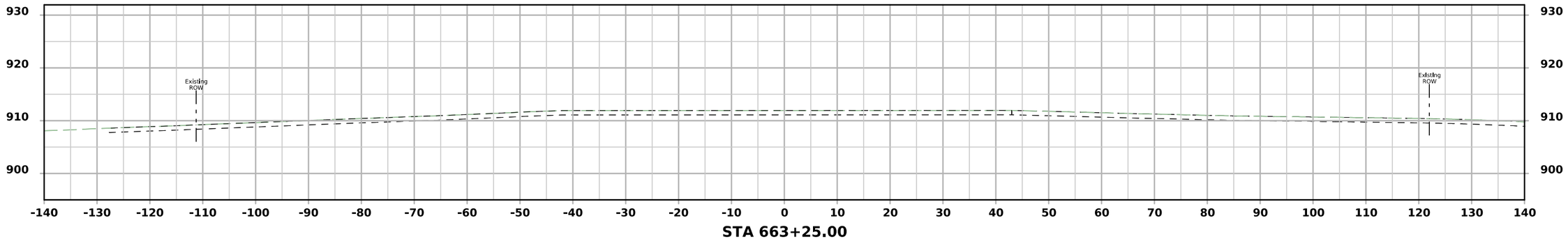
STA 662+25.00

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER W.209

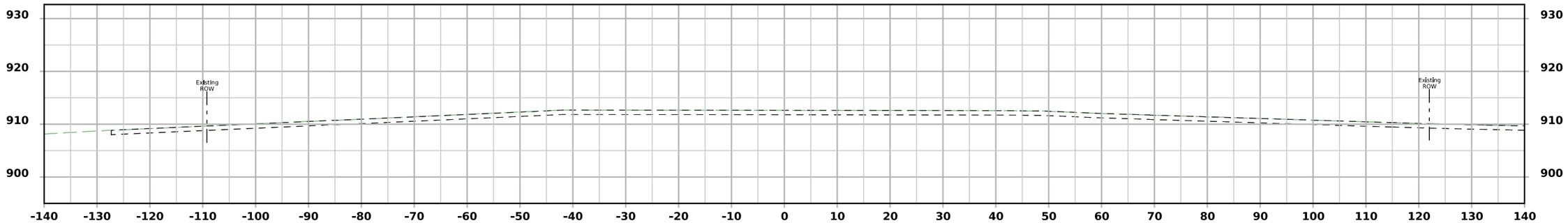
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V2

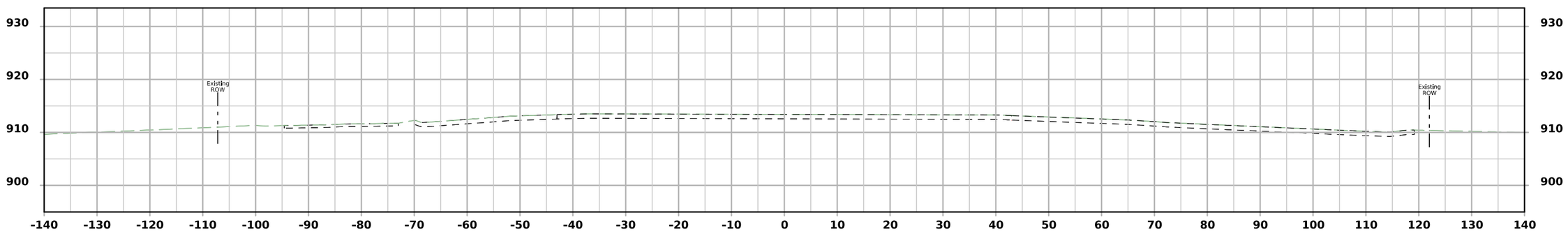
US 6 / Hickman Road - Final Condition



STA 663+25.00



STA 663+00.00



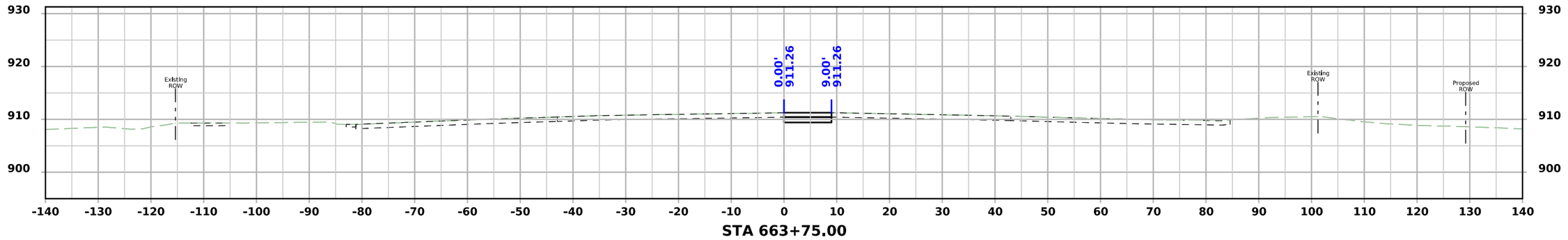
STA 662+75.00

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER W.210

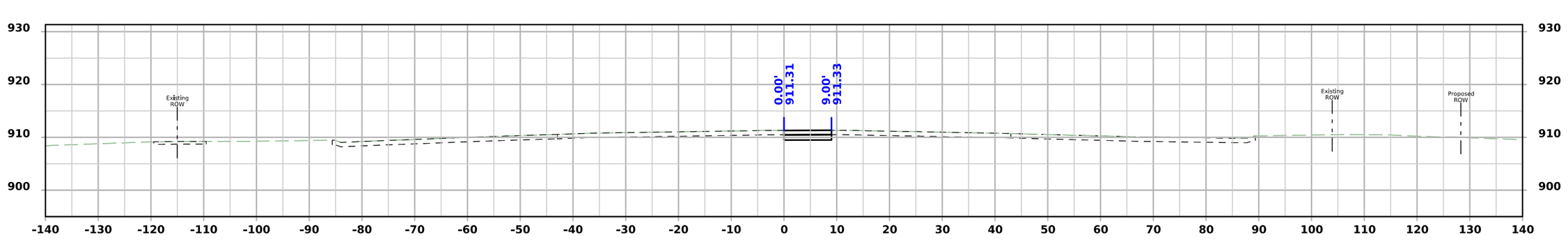
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V2

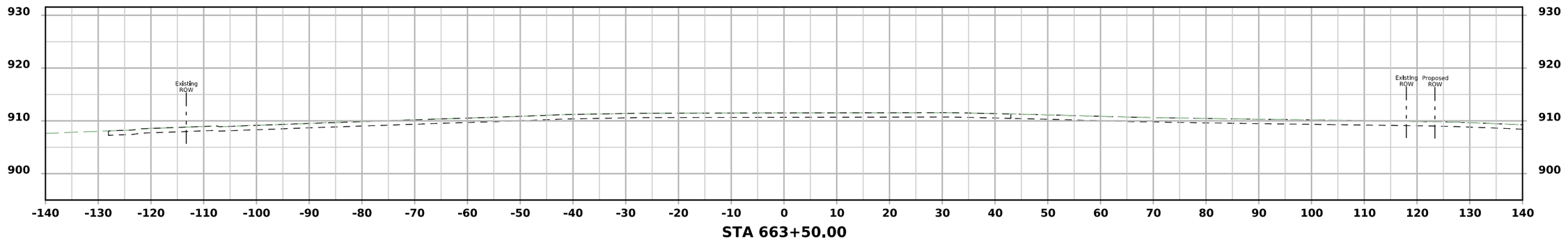
US 6 / Hickman Road - Final Condition



STA 663+75.00



STA 663+71.00



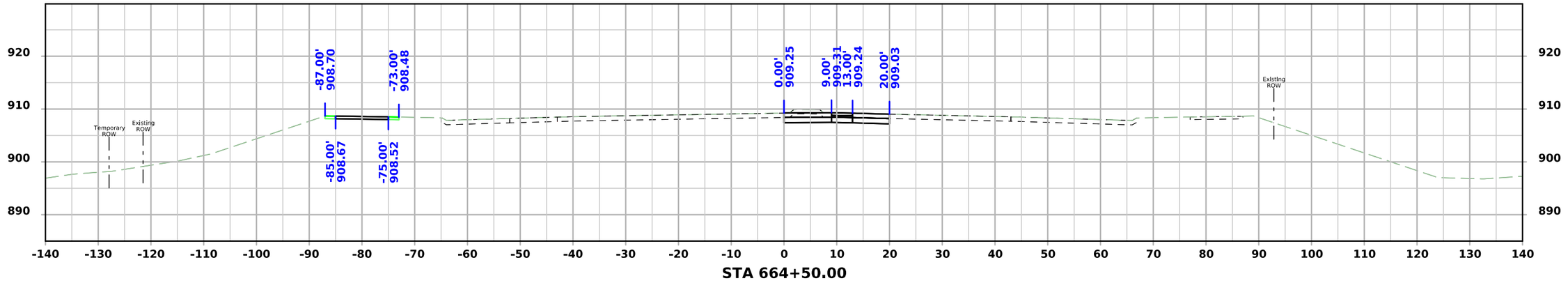
STA 663+50.00

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER W.211

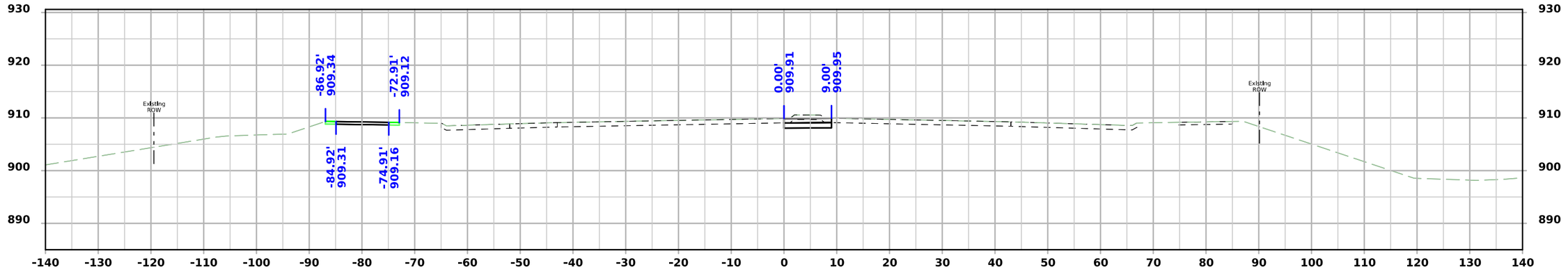
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V2

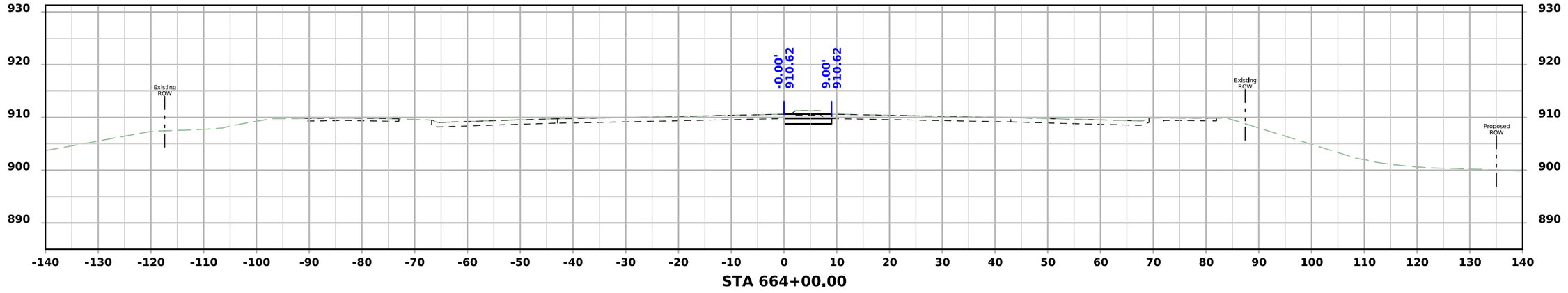
US 6 / Hickman Road - Final Condition



STA 664+50.00



STA 664+25.00



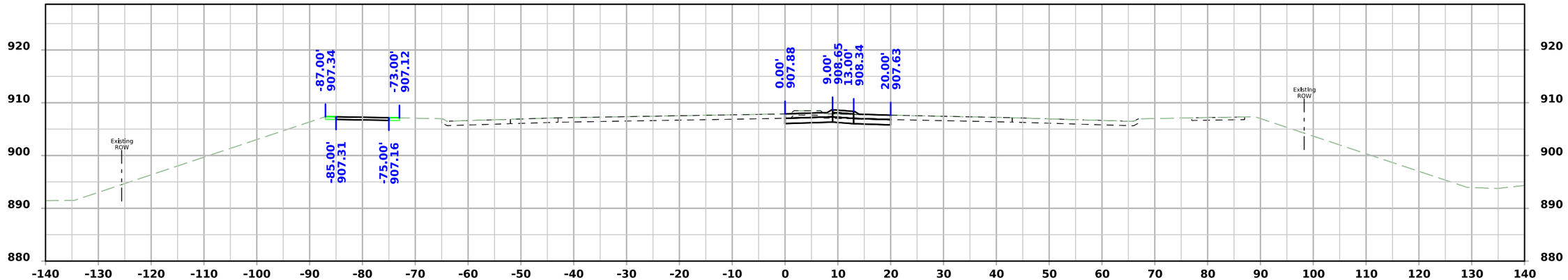
STA 664+00.00

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER W.212

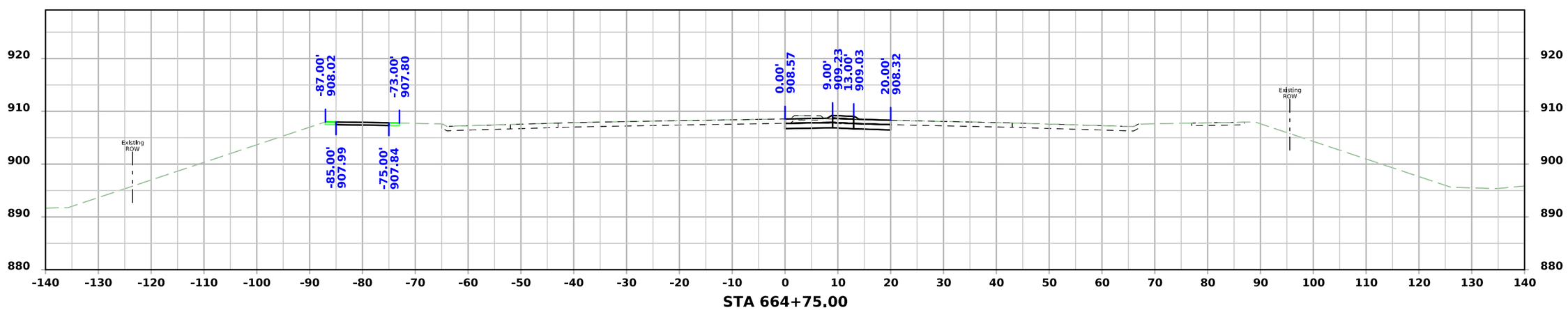
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V2

US 6 / Hickman Road - Final Condition



STA 665+00.00



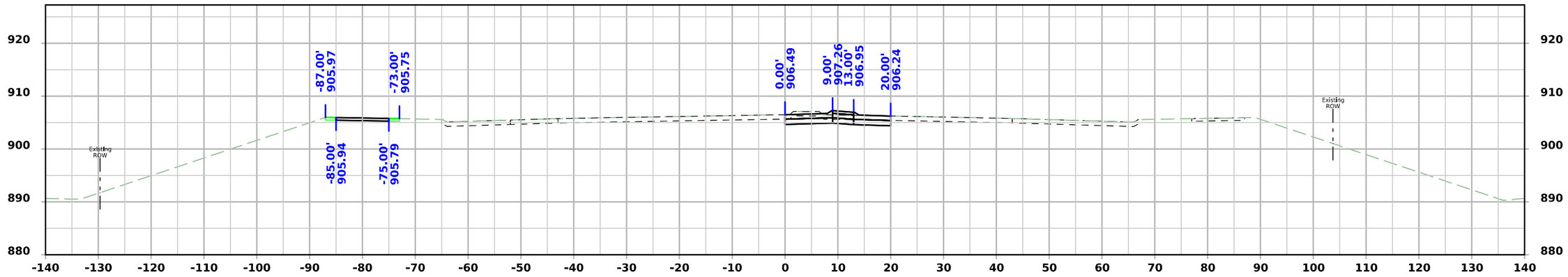
STA 664+75.00

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER W.213

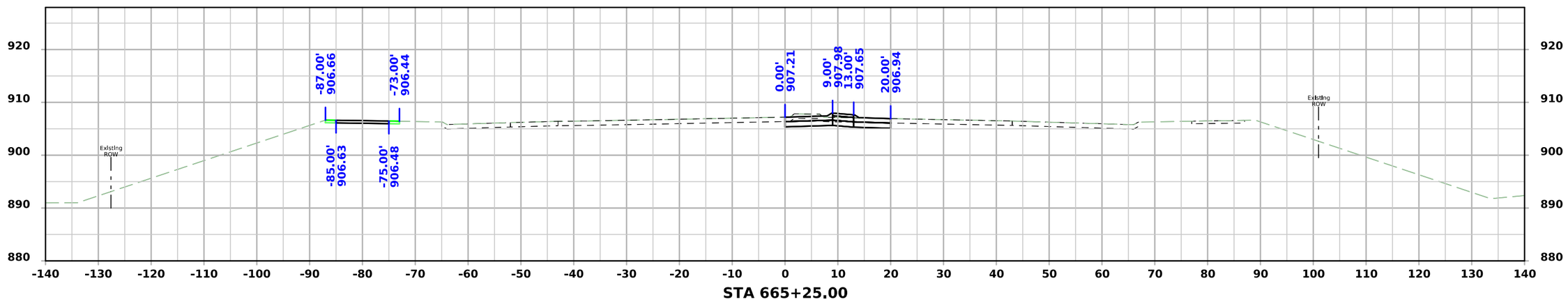
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V2

US 6 / Hickman Road - Final Condition



STA 665+50.00



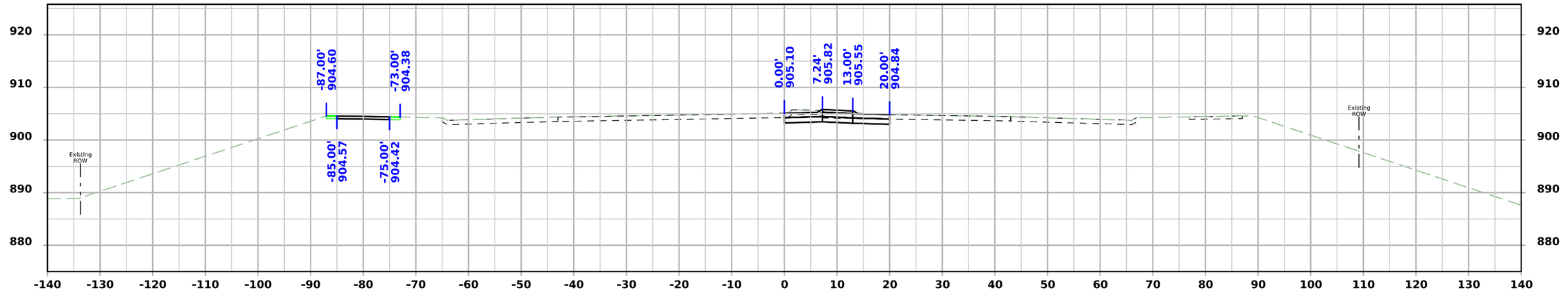
STA 665+25.00

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER W.214

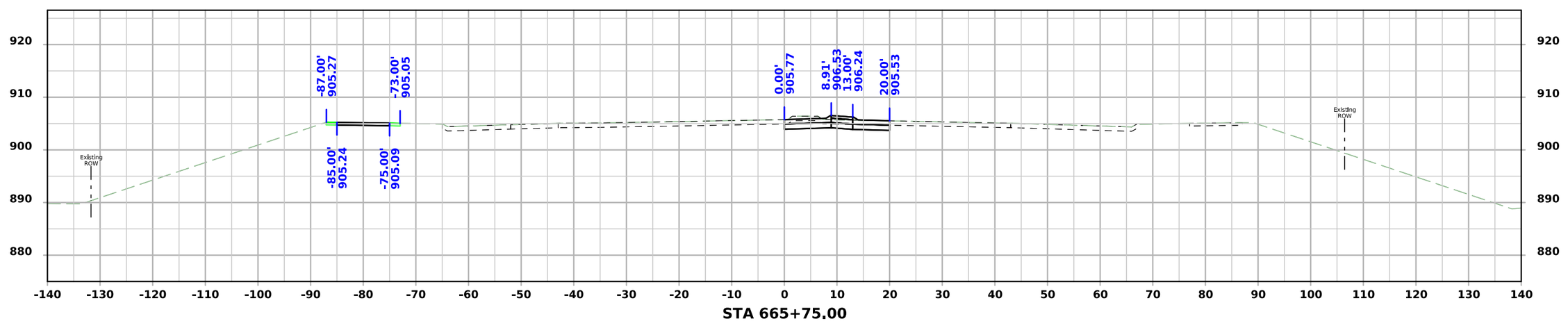
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V2

US 6 / Hickman Road - Final Condition



STA 666+00.00



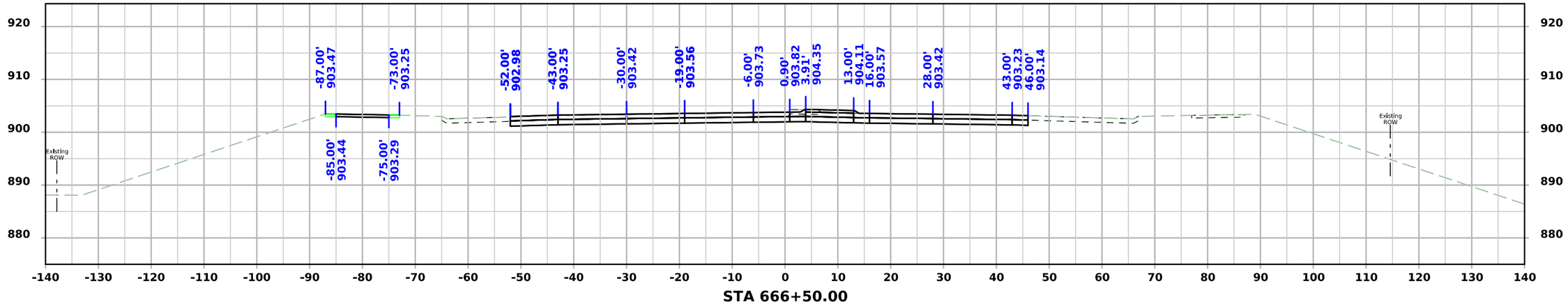
STA 665+75.00

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER W.215

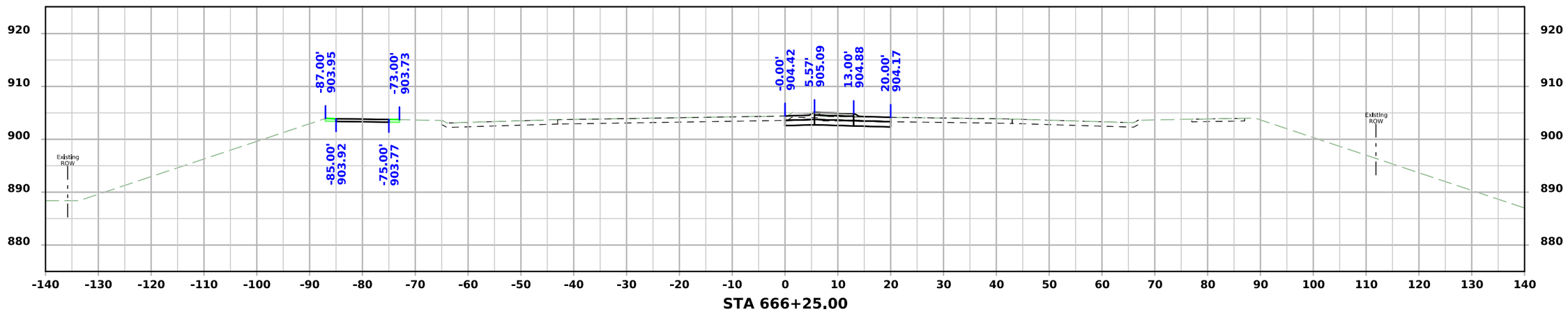
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V2

US 6 / Hickman Road - Final Condition



STA 666+50.00



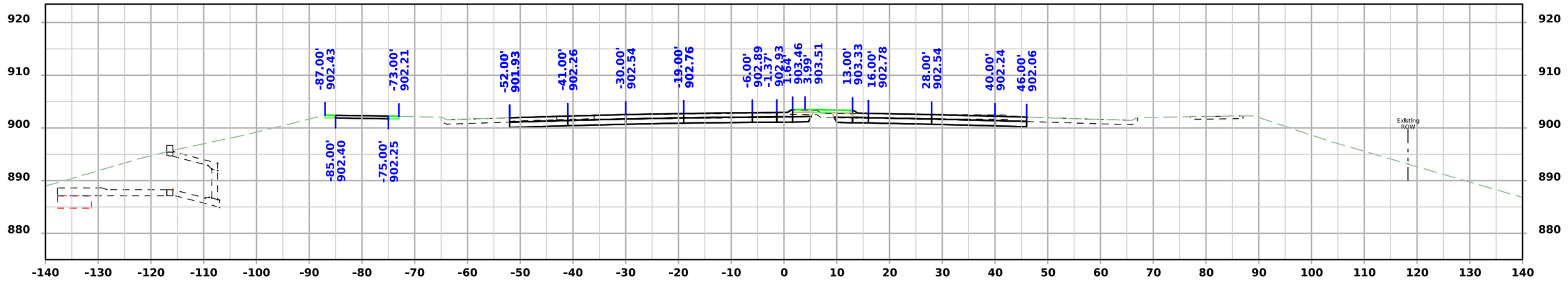
STA 666+25.00

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER W.216

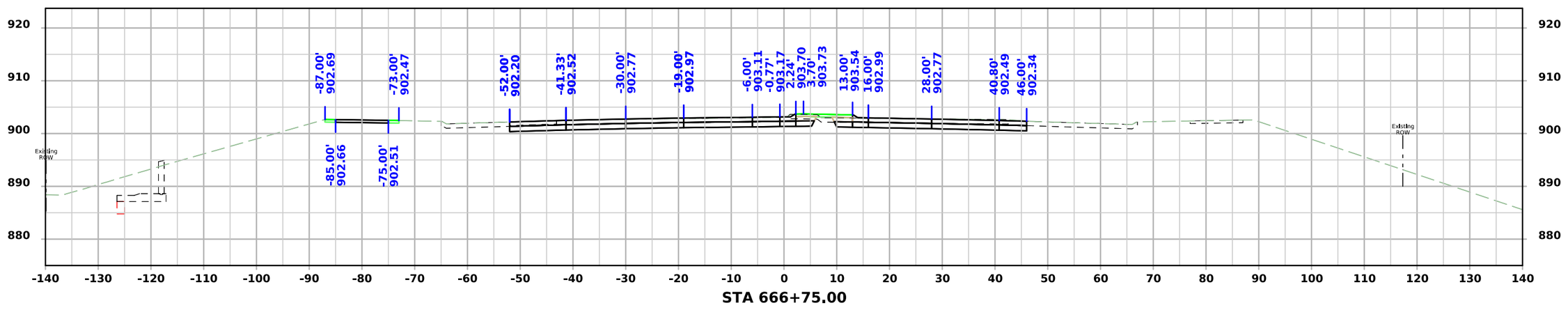
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V2

US 6 / Hickman Road - Final Condition



STA 666+84.00



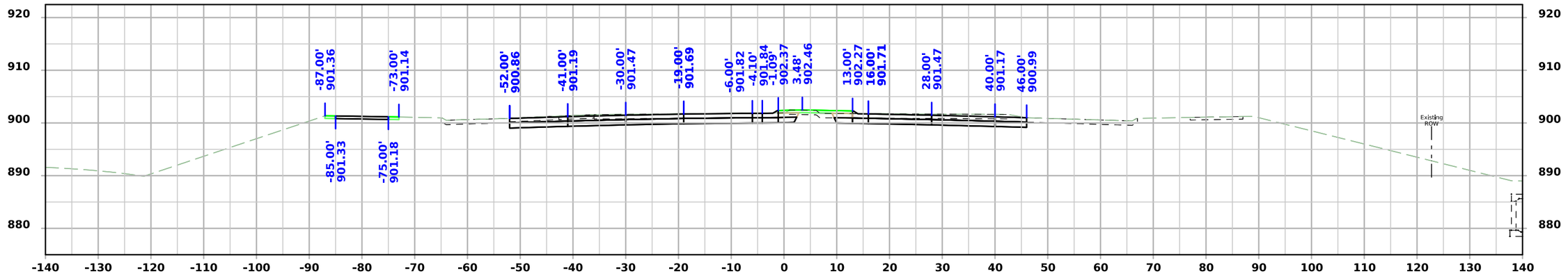
STA 666+75.00

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER W.217

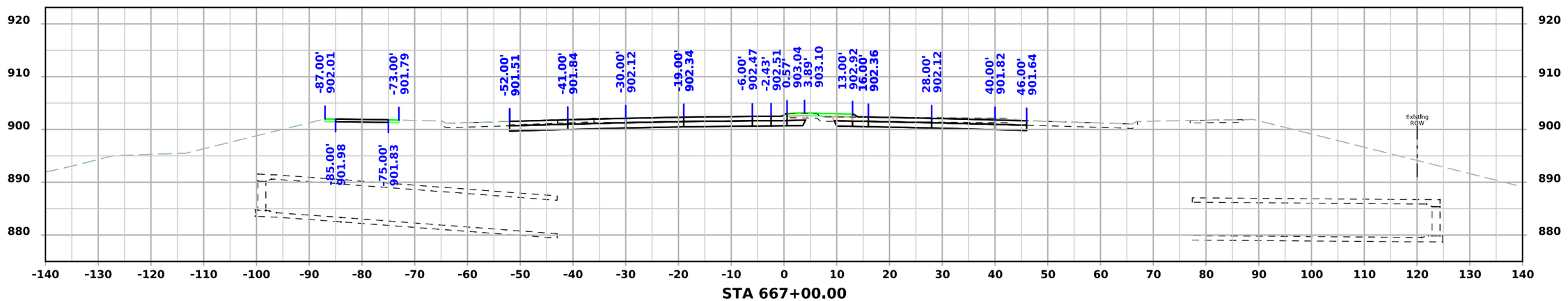
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V2

US 6 / Hickman Road - Final Condition



STA 667+25.00



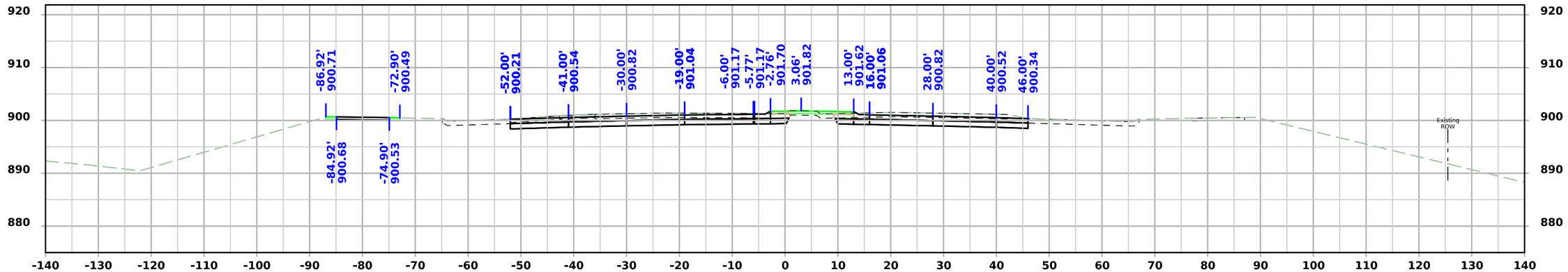
STA 667+00.00

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER W.218

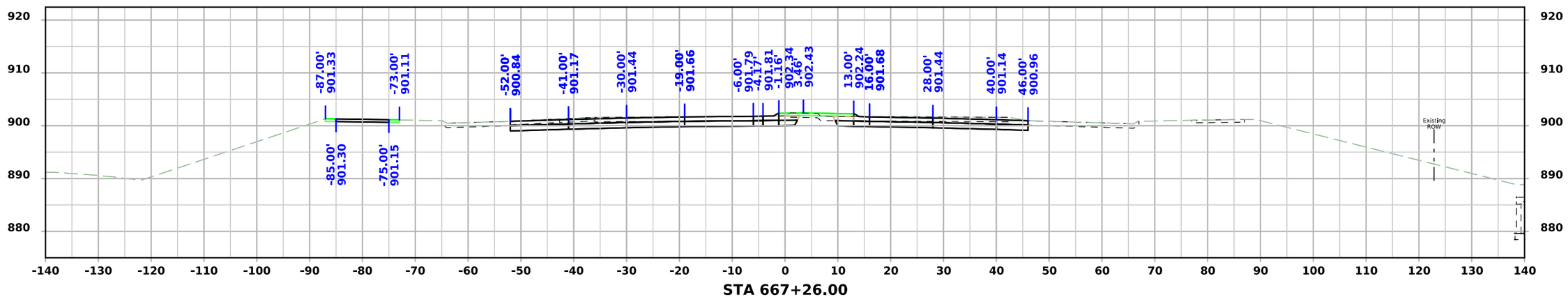
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V2

US 6 / Hickman Road - Final Condition



STA 667+50.00



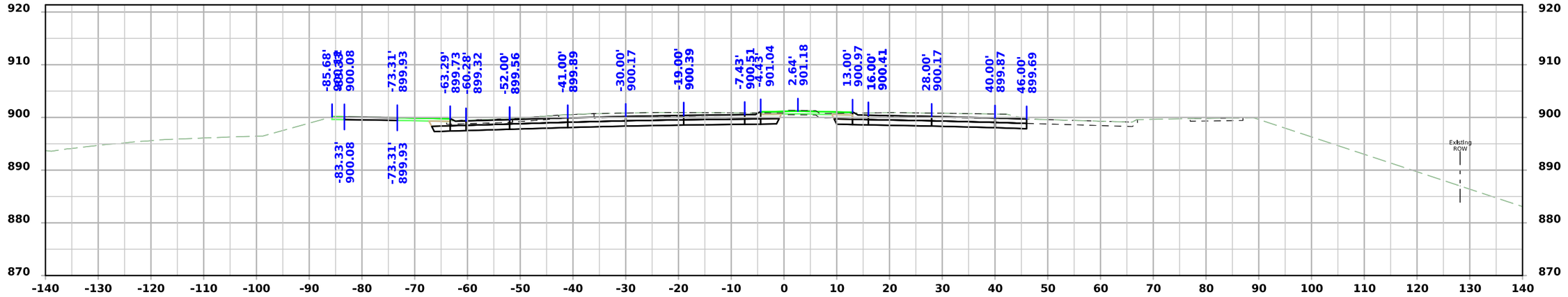
STA 667+26.00

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER W.219

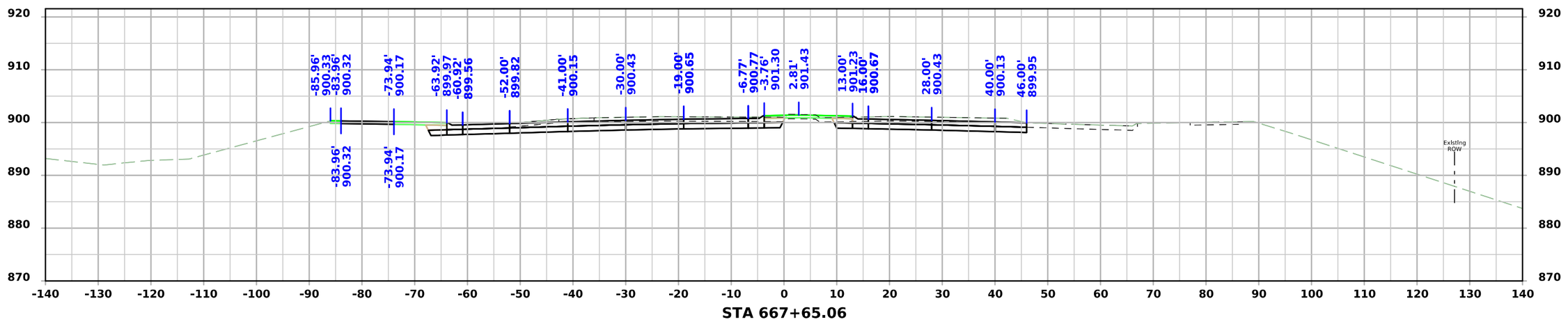
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V2

US 6 / Hickman Road - Final Condition



STA 667+75.00



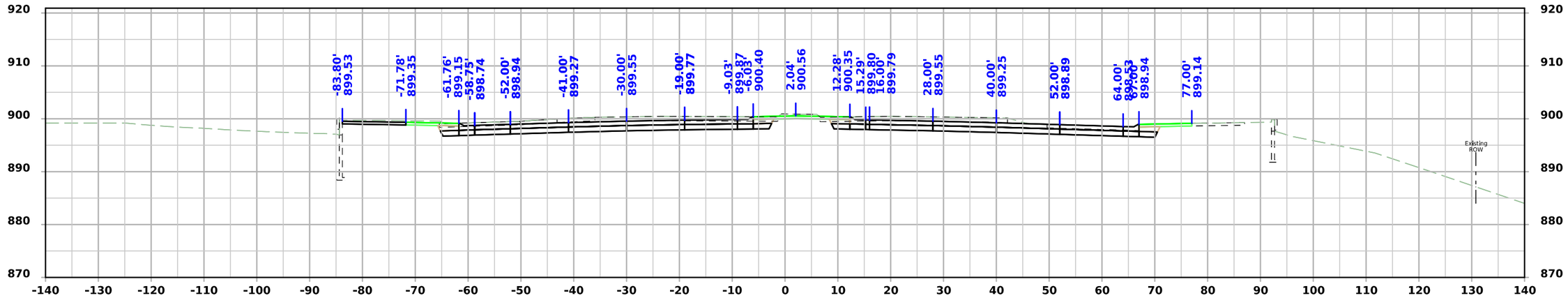
STA 667+65.06

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER W.220

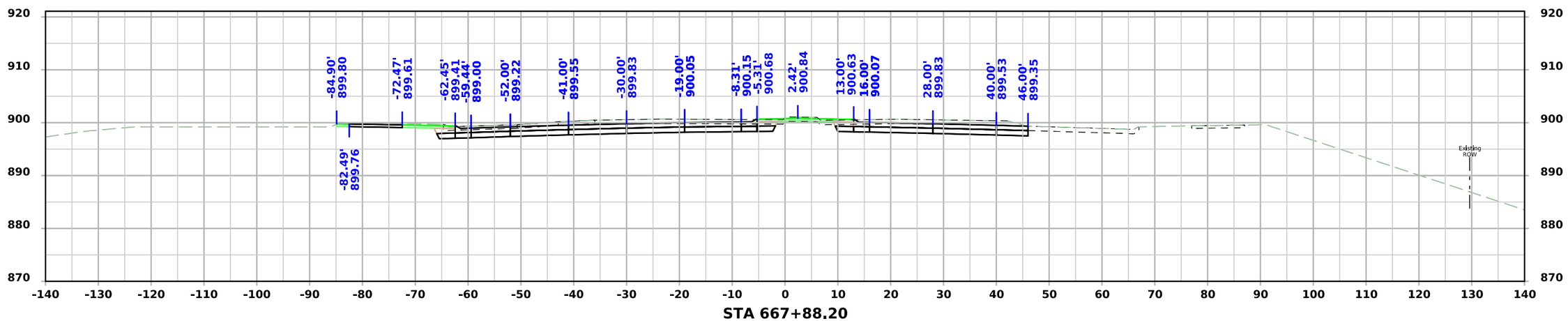
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V2

US 6 / Hickman Road - Final Condition



STA 667+99.00



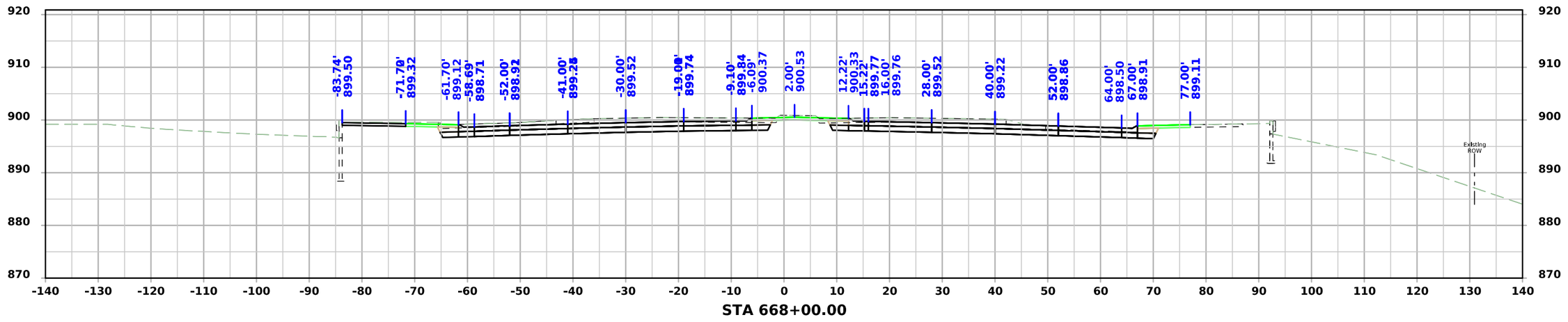
STA 667+88.20

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER W.221

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V2

US 6 / Hickman Road - Final Condition



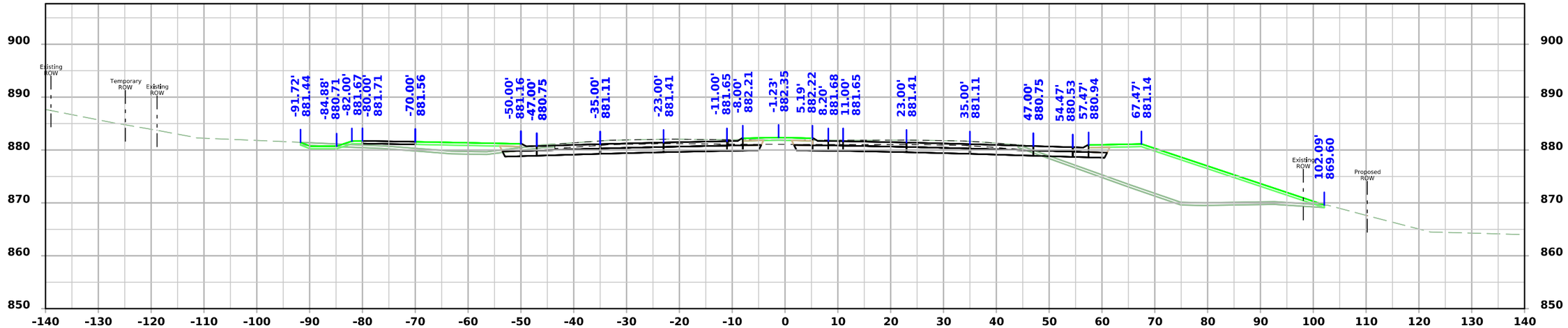
STA 668+00.00

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER W.222

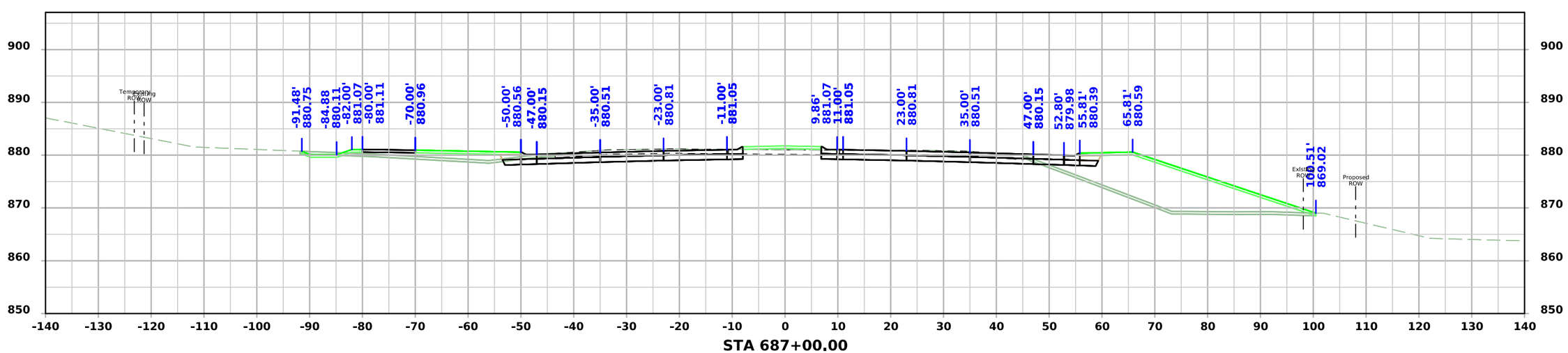
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V2

US 6 / Hickman Road - Final Condition



STA 687+25.00



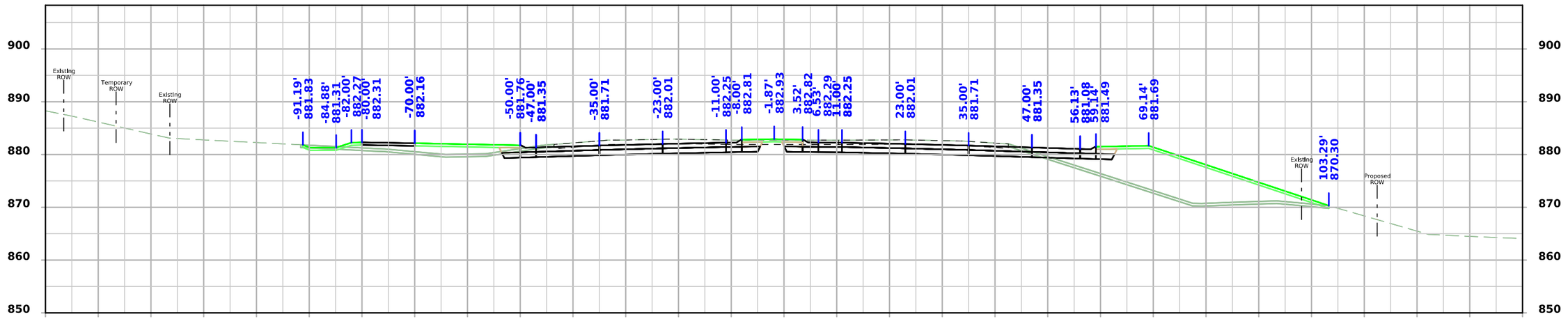
STA 687+00.00

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER W.223

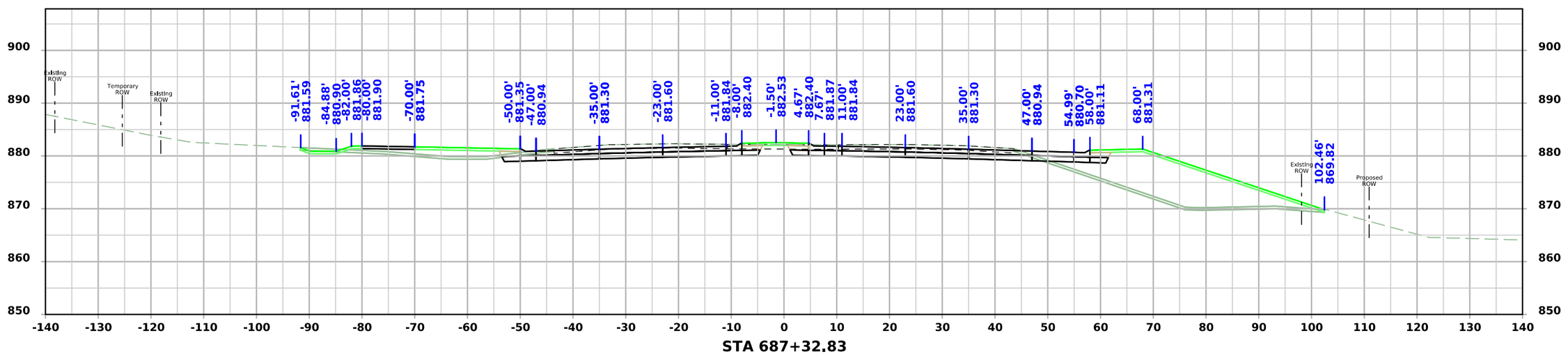
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V2

US 6 / Hickman Road - Final Condition



STA 687+50.00



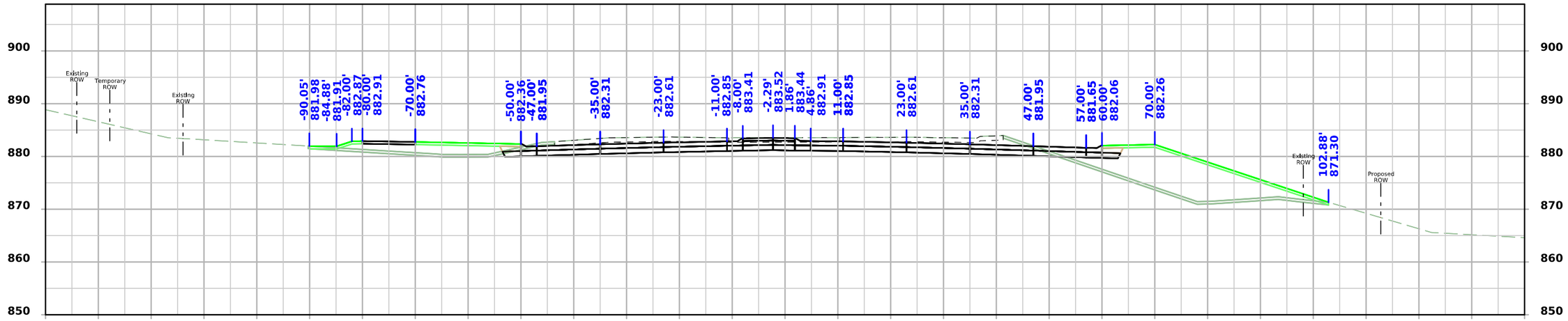
STA 687+32.83

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER W.224

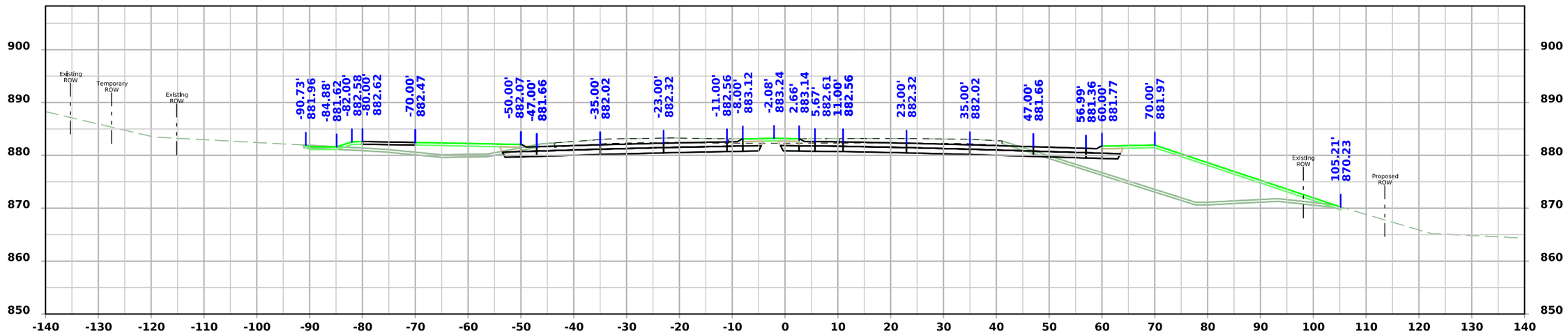
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V2

US 6 / Hickman Road - Final Condition



STA 687+75.00



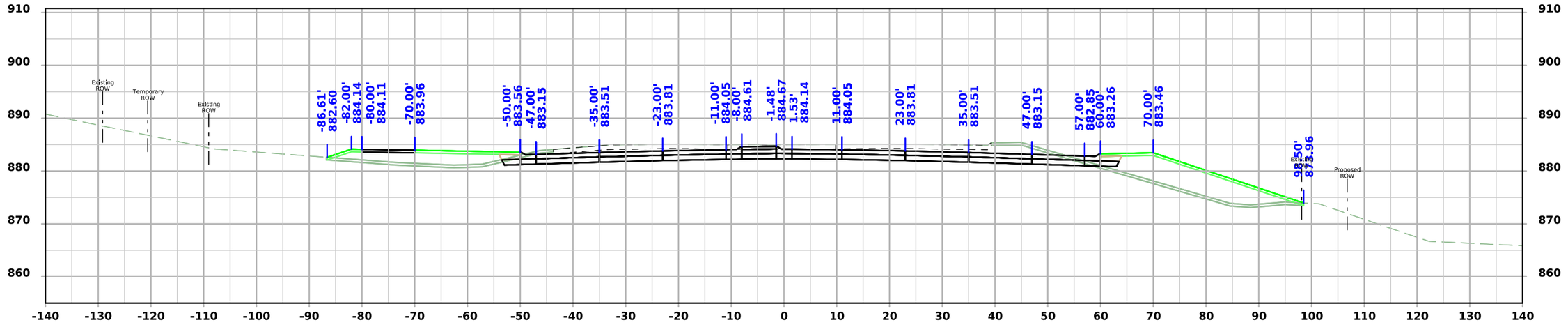
STA 687+62.89

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER W.225

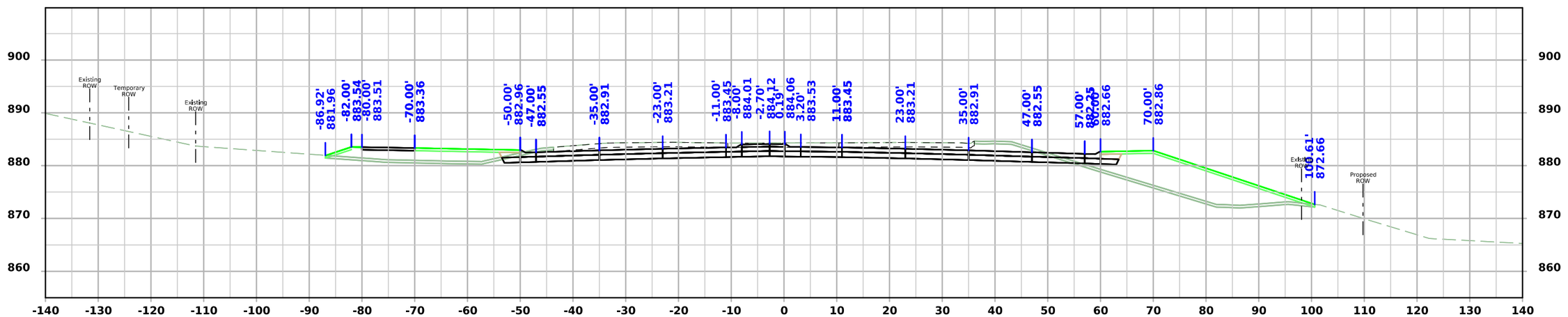
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V2

US 6 / Hickman Road - Final Condition



STA 688+25.00



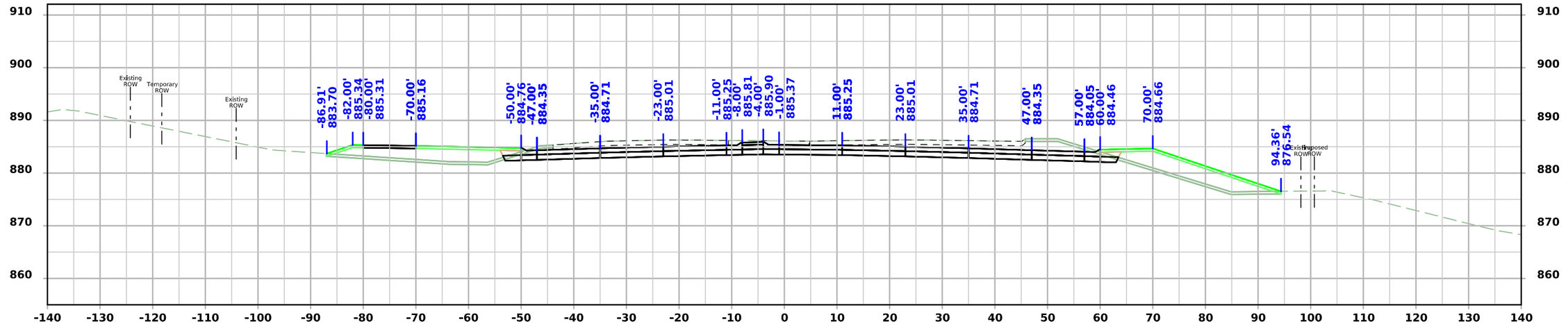
STA 688+00.00

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER W.226

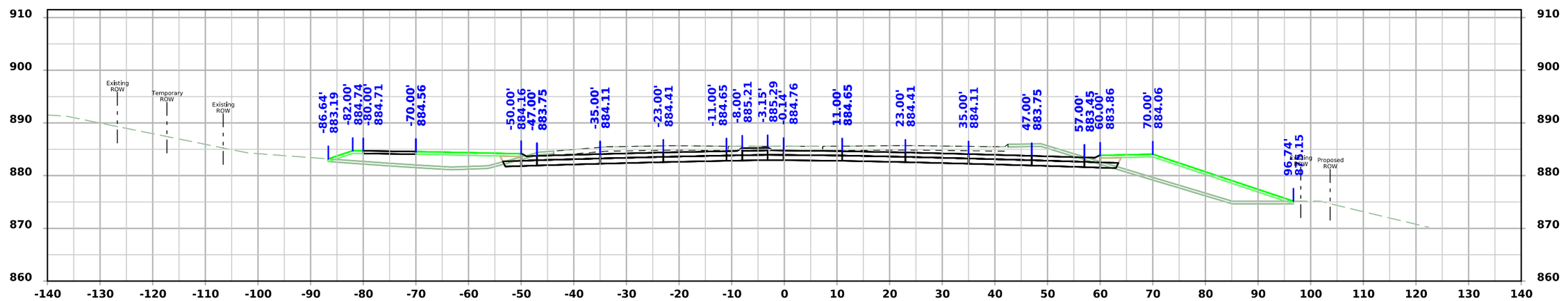
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V2

US 6 / Hickman Road - Final Condition



STA 688+75.00



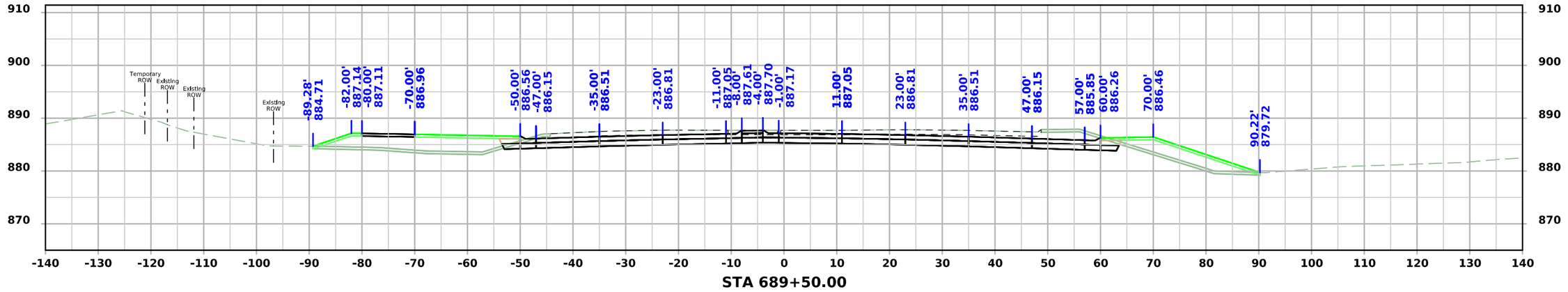
STA 688+50.00

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER W.227

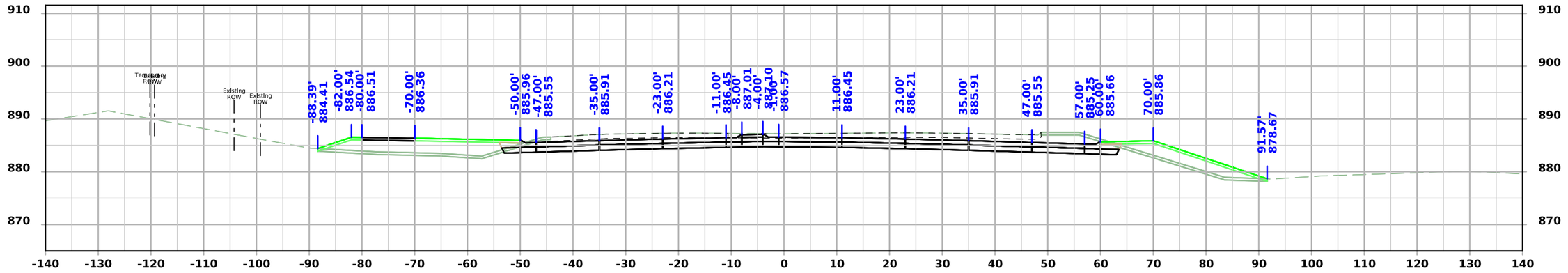
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V2

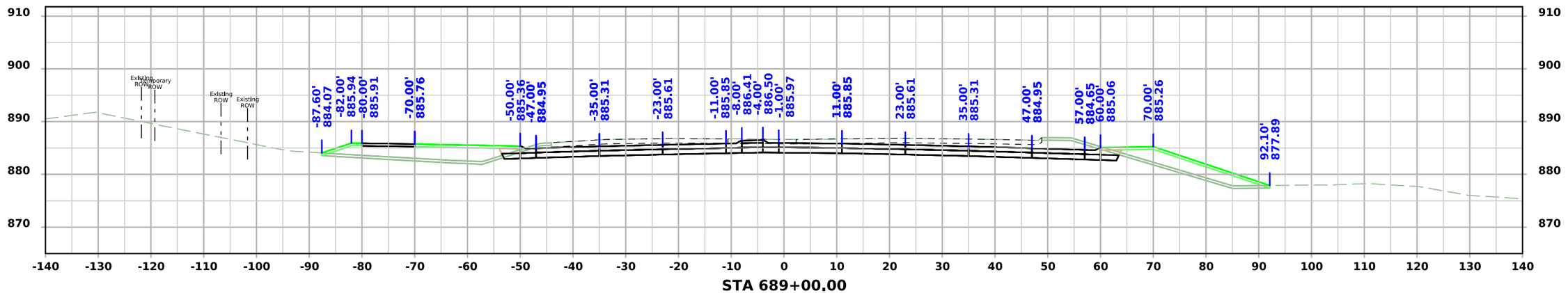
US 6 / Hickman Road - Final Condition



STA 689+50.00



STA 689+25.00



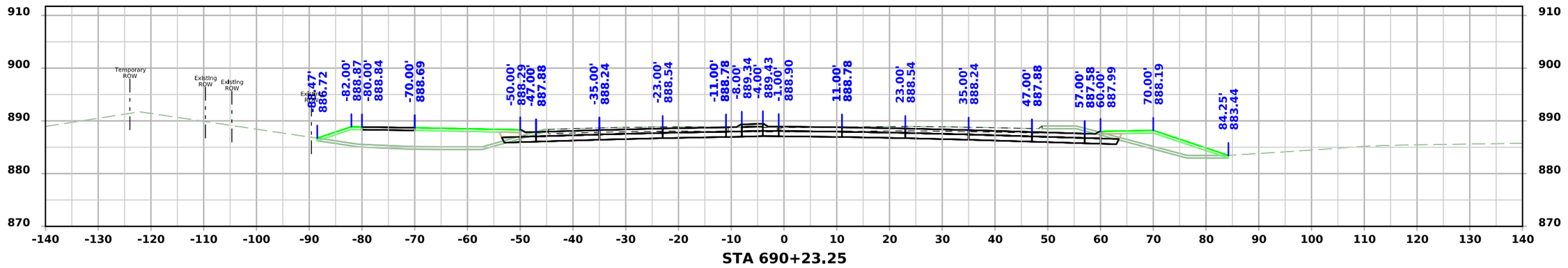
STA 689+00.00

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER W.228

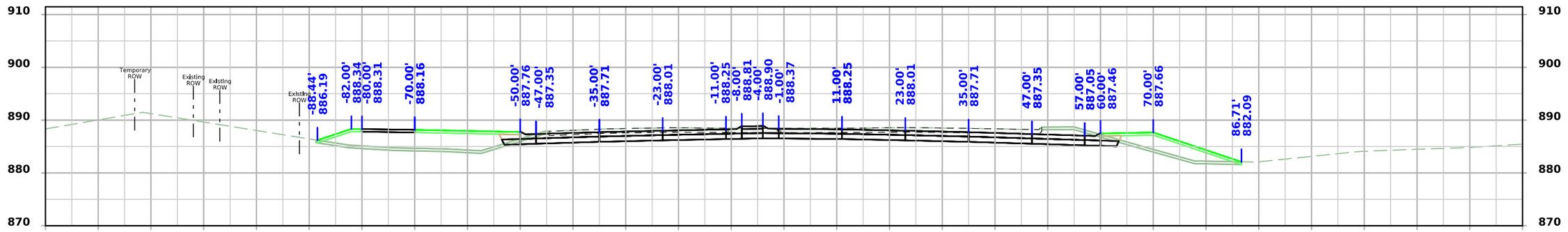
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V2

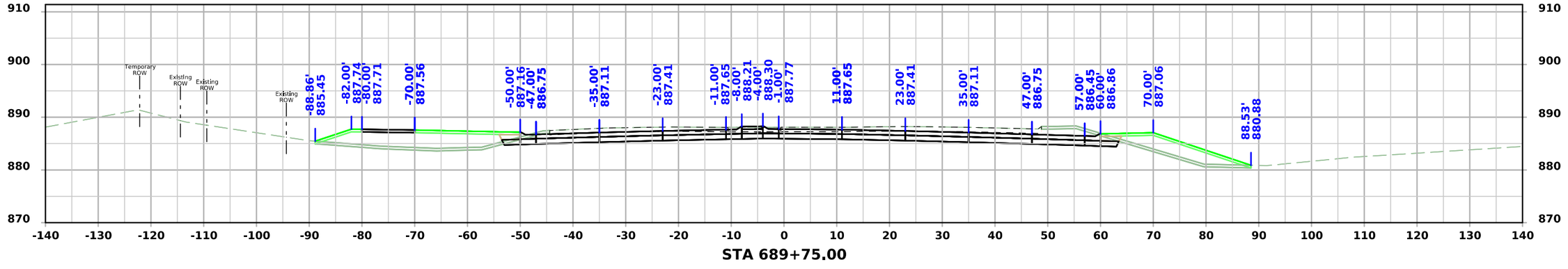
US 6 / Hickman Road - Final Condition



STA 690+23.25



STA 690+00.00



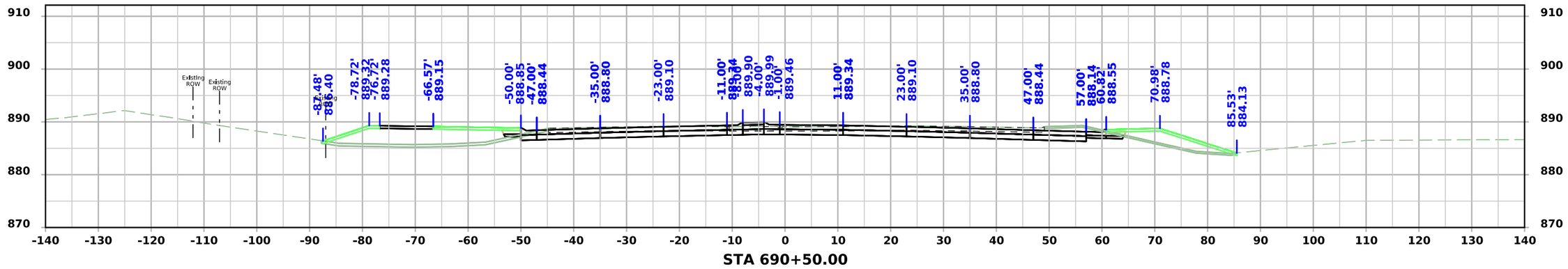
STA 689+75.00

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER W.229

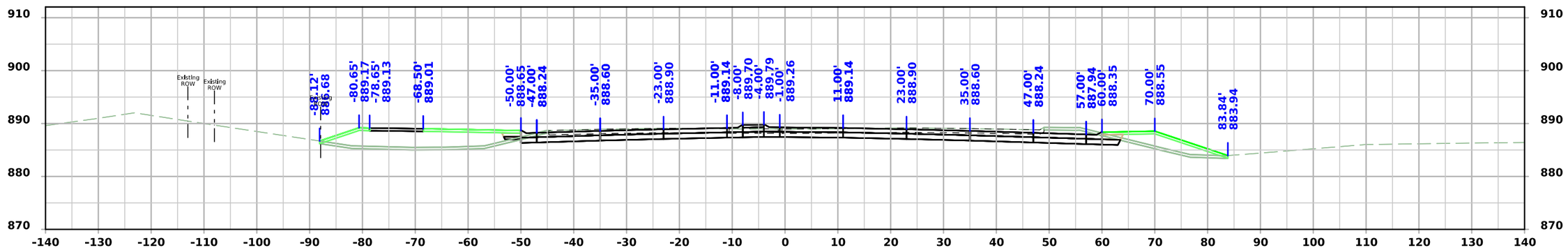
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V2

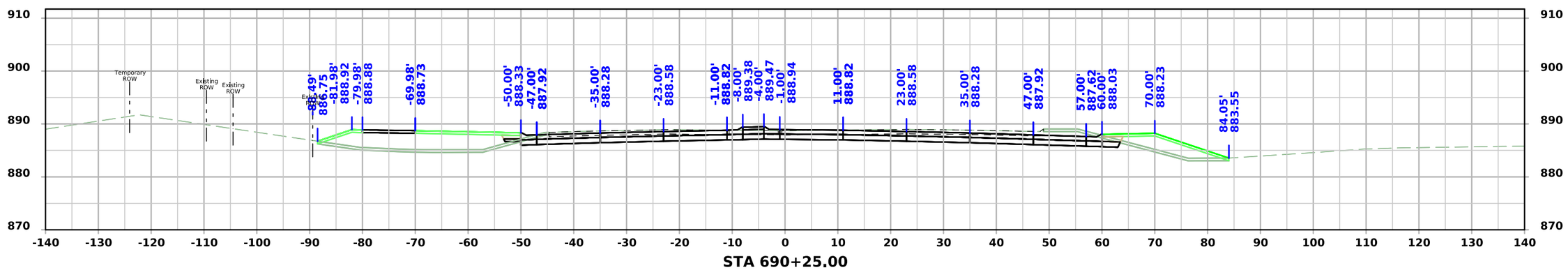
US 6 / Hickman Road - Final Condition



STA 690+50.00



STA 690+40.10



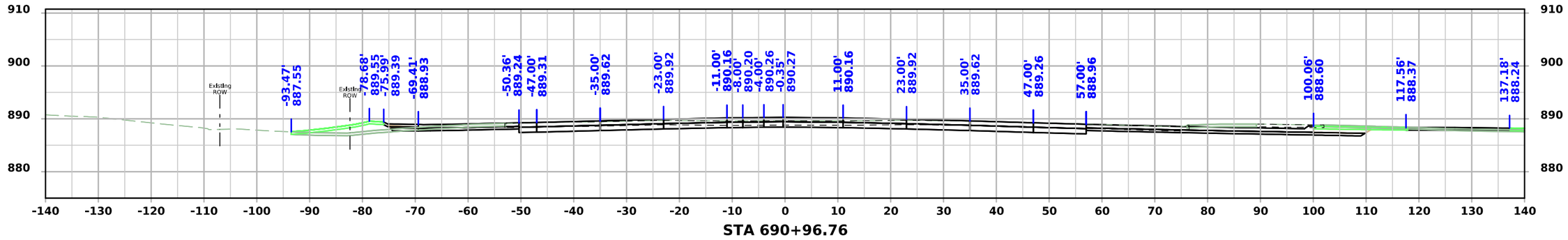
STA 690+25.00

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER W.230

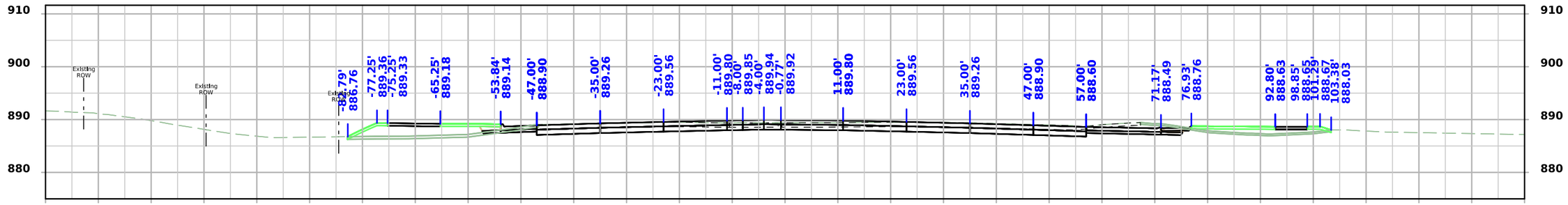
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V2

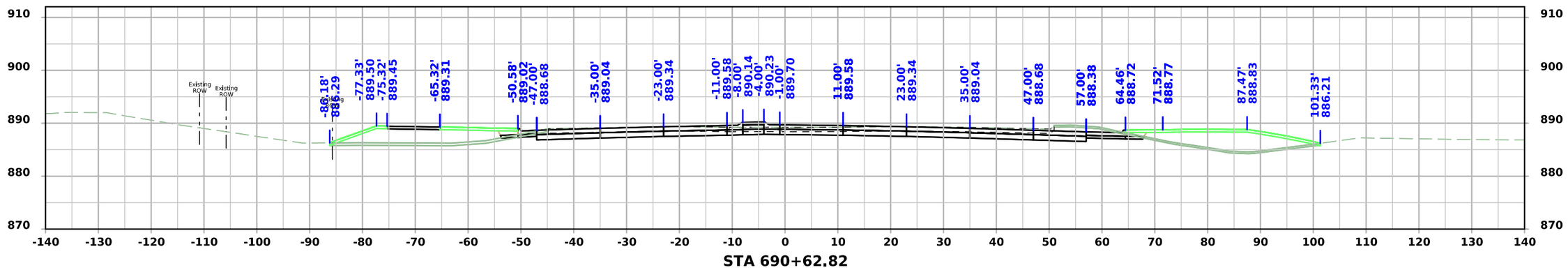
US 6 / Hickman Road - Final Condition



STA 690+96.76



STA 690+75.00



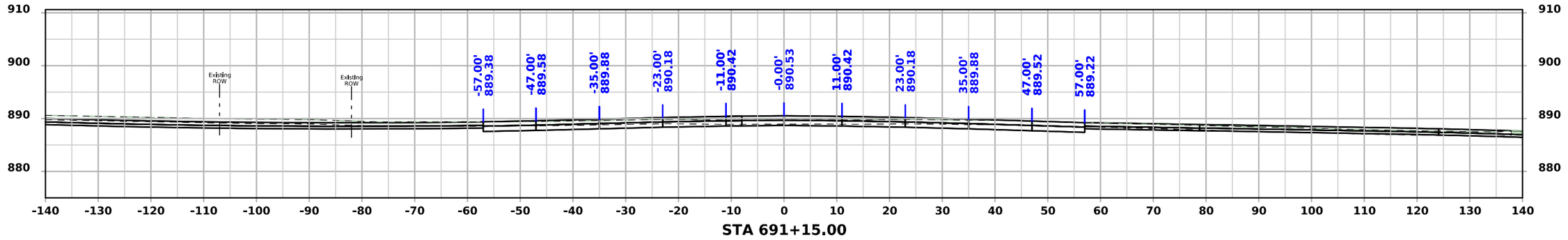
STA 690+62.82

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER W.231

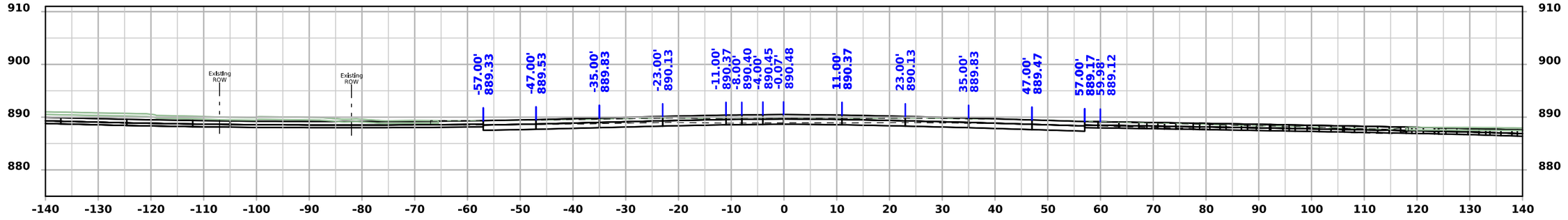
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V2

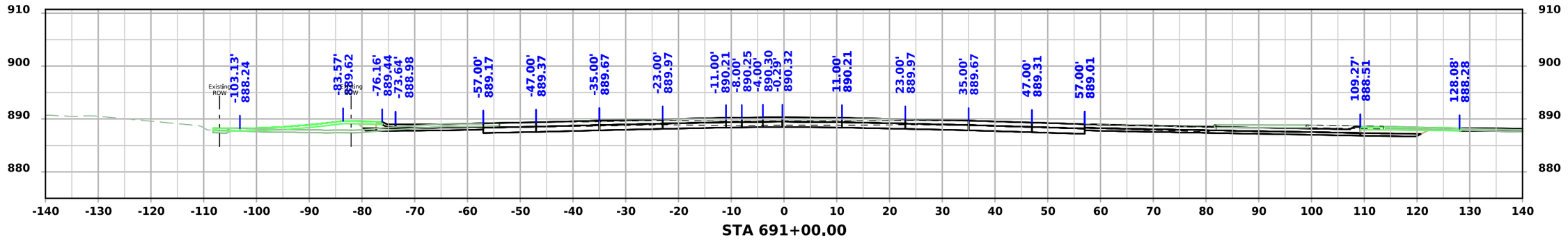
US 6 / Hickman Road - Final Condition



STA 691+15.00



STA 691+11.33



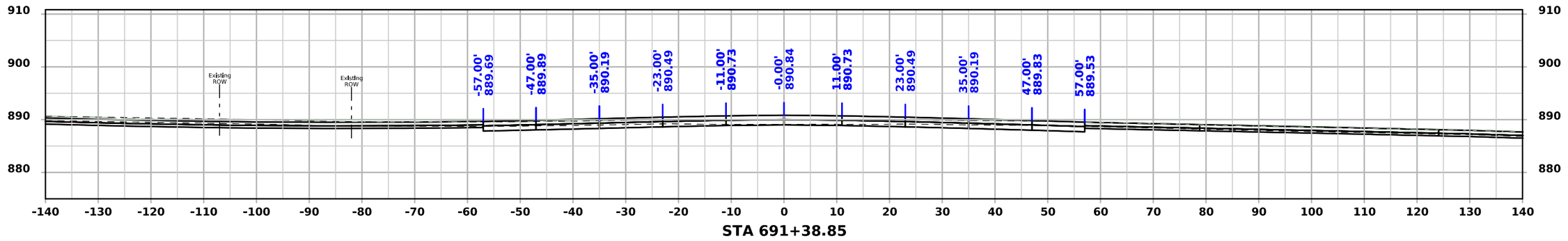
STA 691+00.00

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER W.232

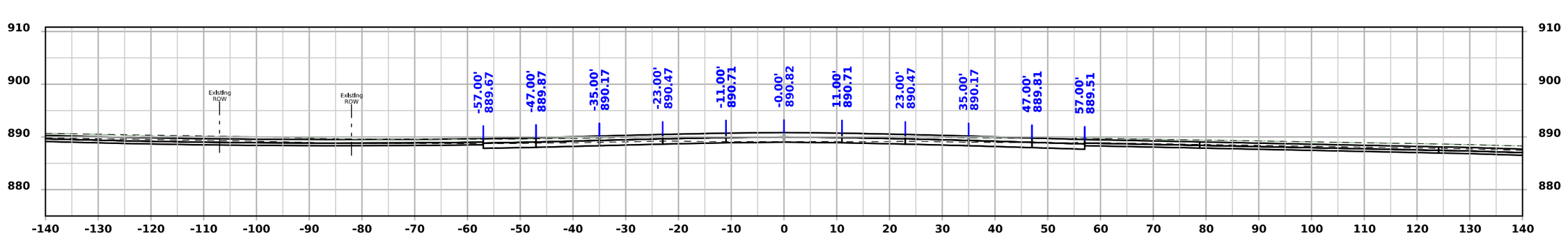
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V2

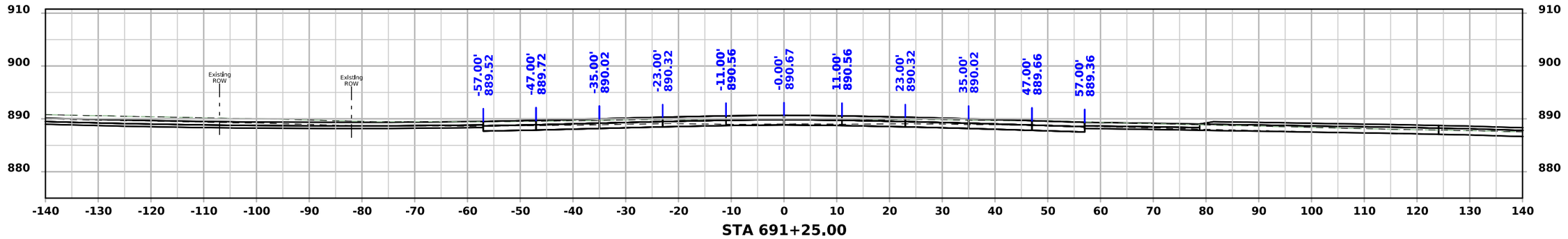
US 6 / Hickman Road - Final Condition



STA 691+38.85



STA 691+37.50



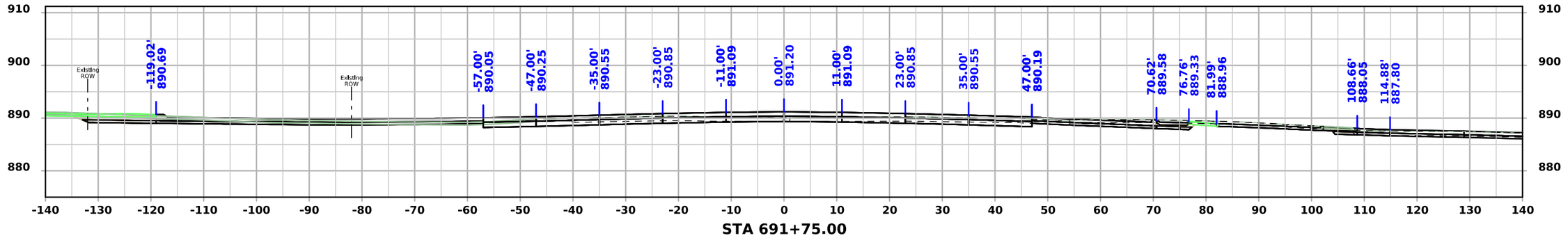
STA 691+25.00

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER W.233

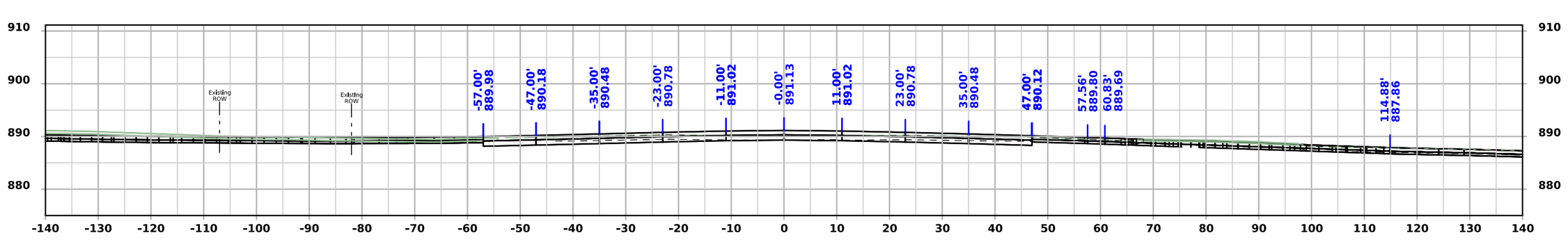
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V2

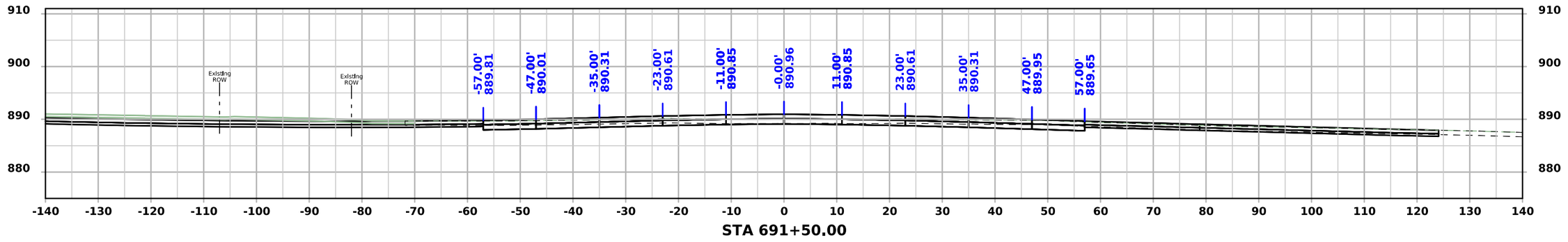
US 6 / Hickman Road - Final Condition



STA 691+75.00



STA 691+66.33



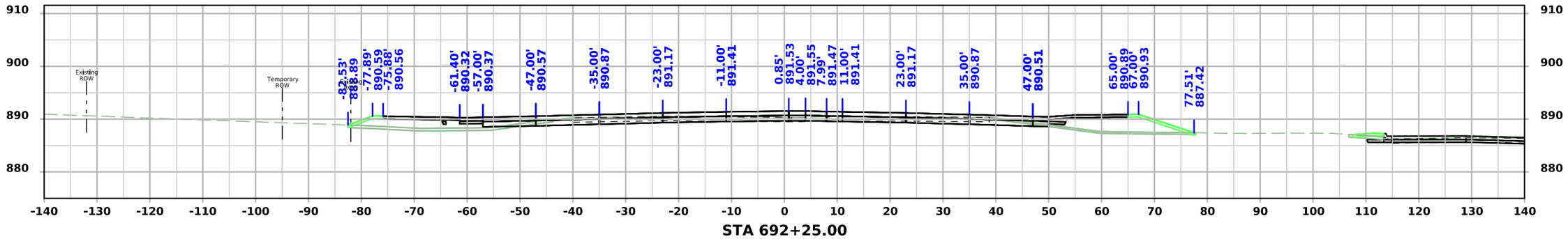
STA 691+50.00

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER W.234

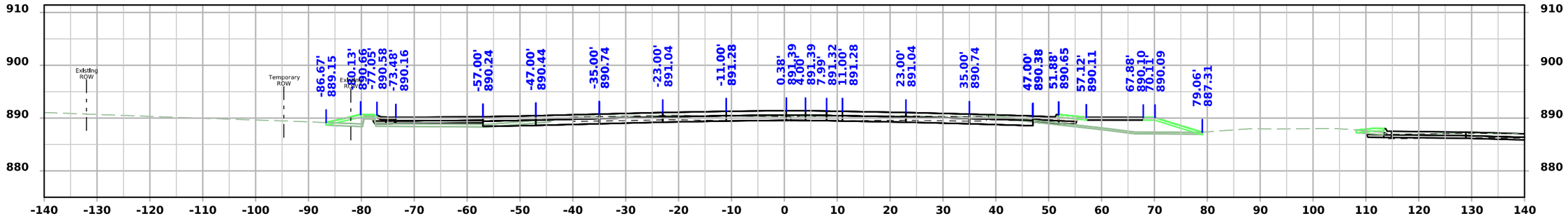
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V2

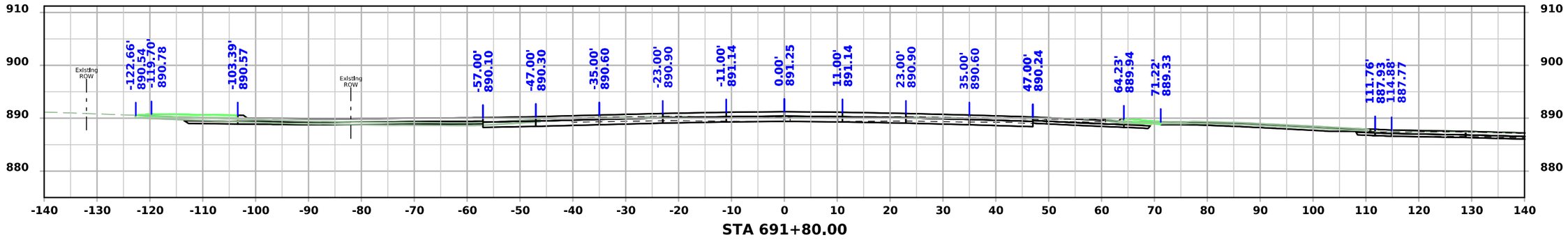
US 6 / Hickman Road - Final Condition



STA 692+25.00



STA 692+00.00



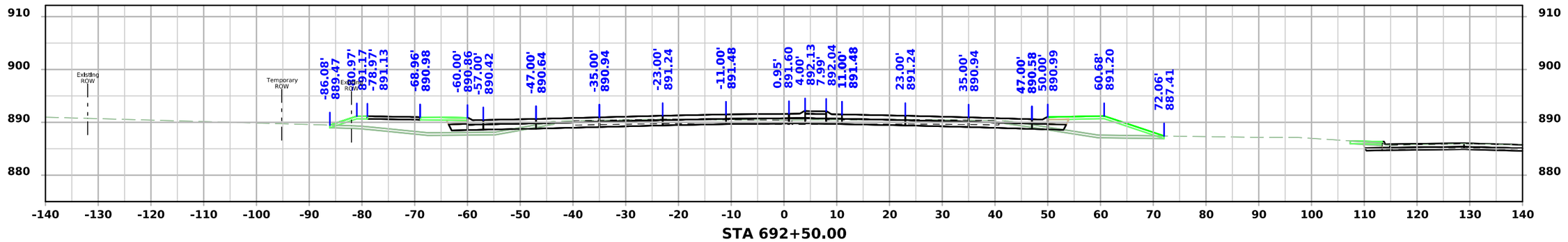
STA 691+80.00

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER W.235

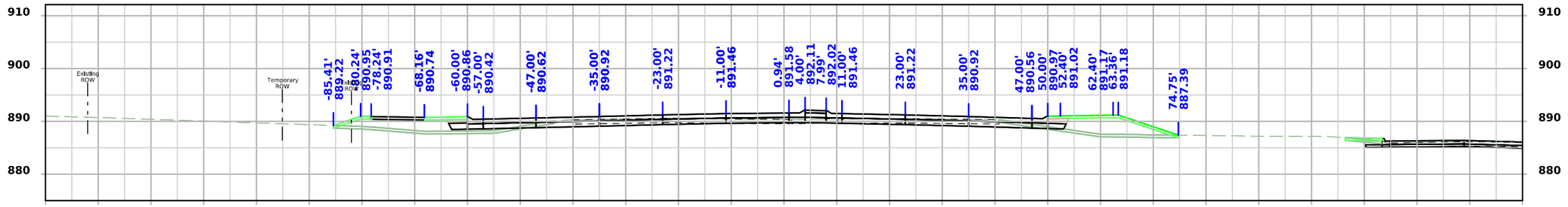
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V2

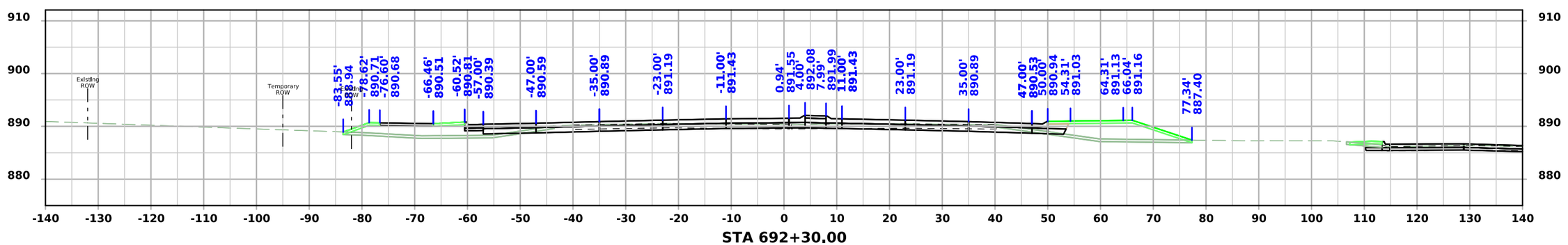
US 6 / Hickman Road - Final Condition



STA 692+50.00



STA 692+40.00



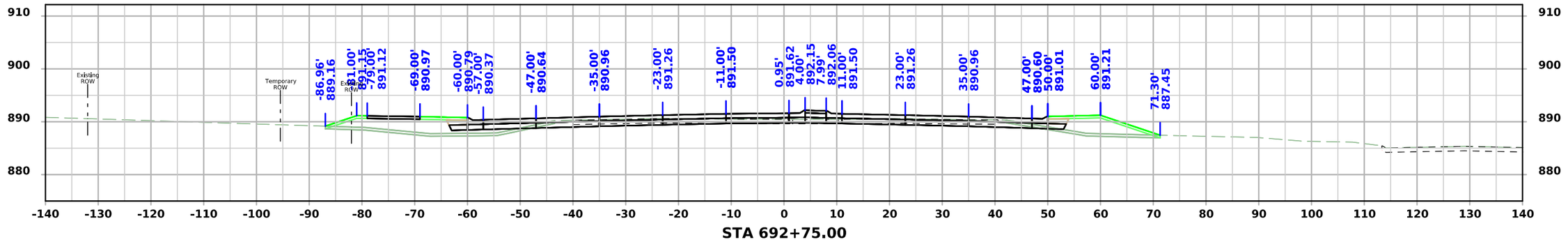
STA 692+30.00

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER W.236

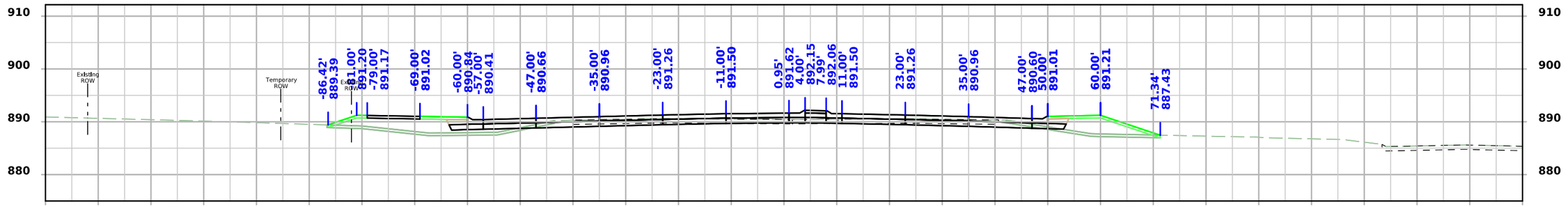
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V2

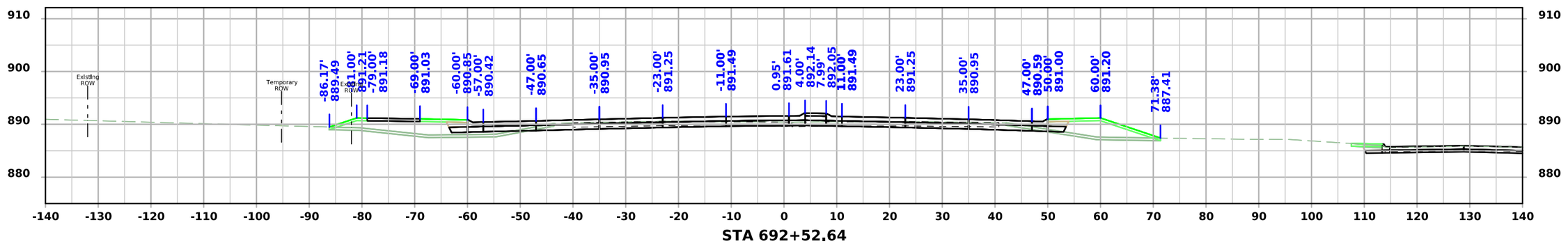
US 6 / Hickman Road - Final Condition



STA 692+75.00



STA 692+65.00



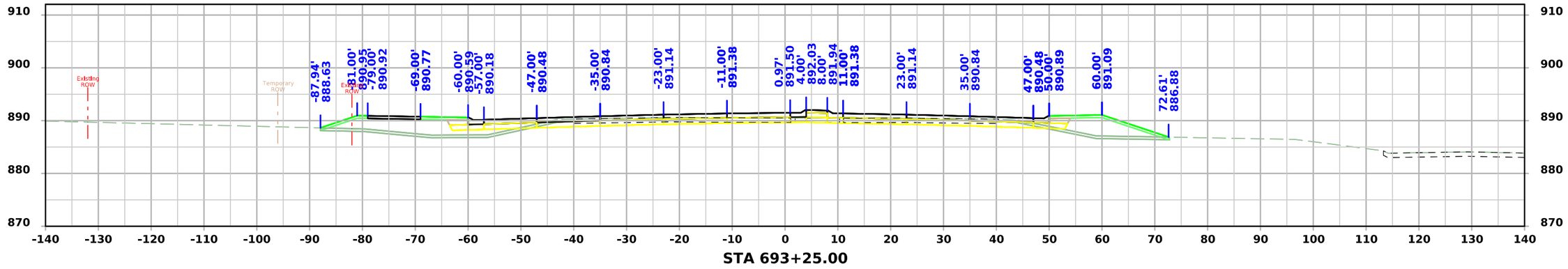
STA 692+52.64

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER W.237

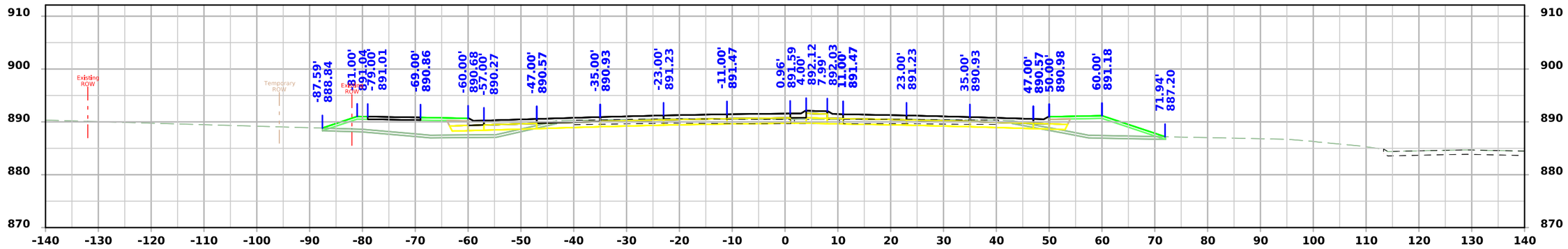
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V2

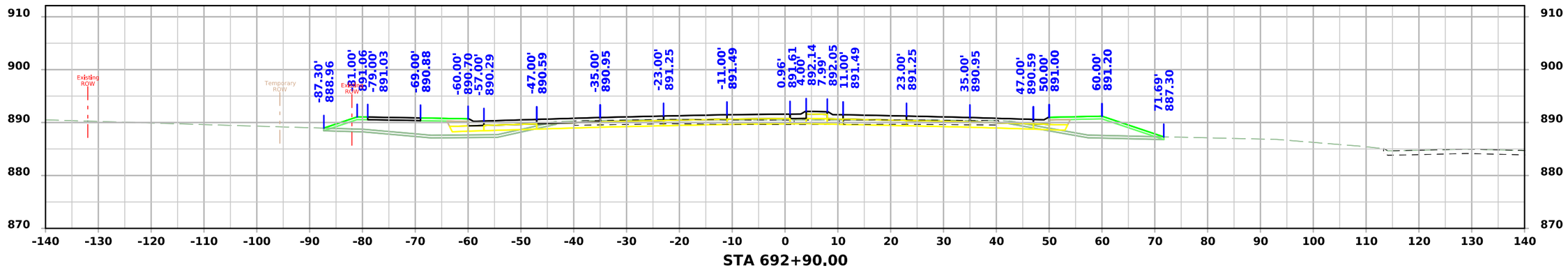
US 6 / Hickman Road - Final Condition



STA 693+25.00



STA 693+00.00



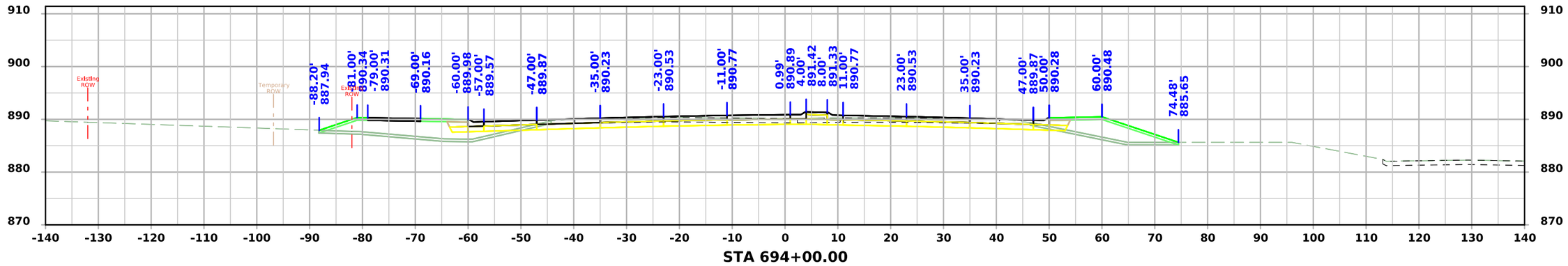
STA 692+90.00

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER W.238

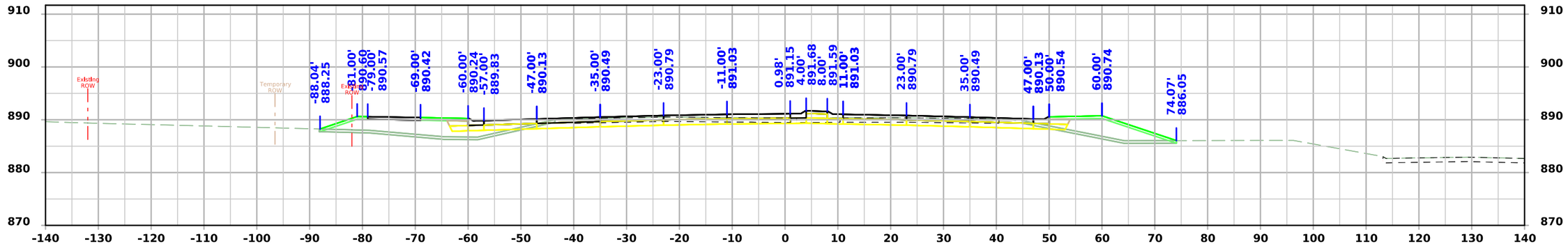
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V2

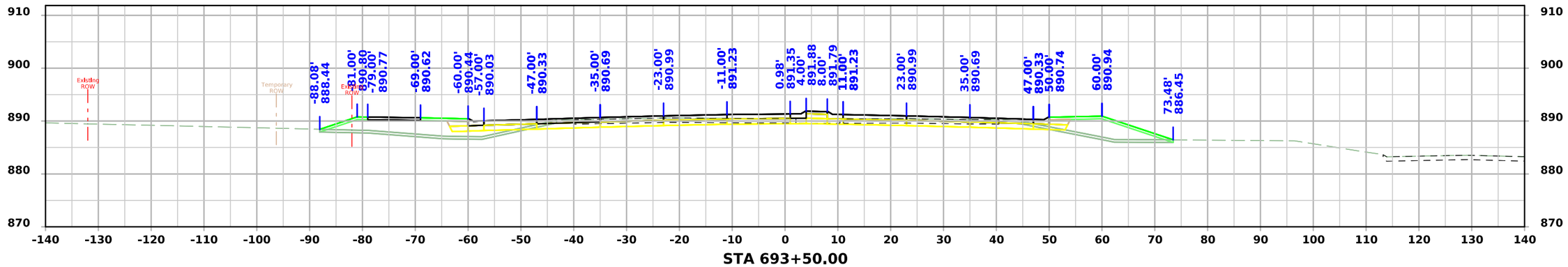
US 6 / Hickman Road - Final Condition



STA 694+00.00



STA 693+75.00



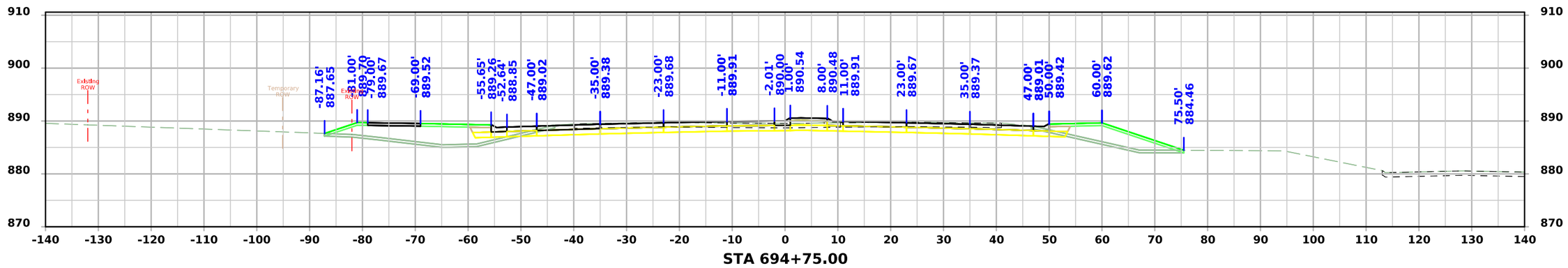
STA 693+50.00

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER W.239	

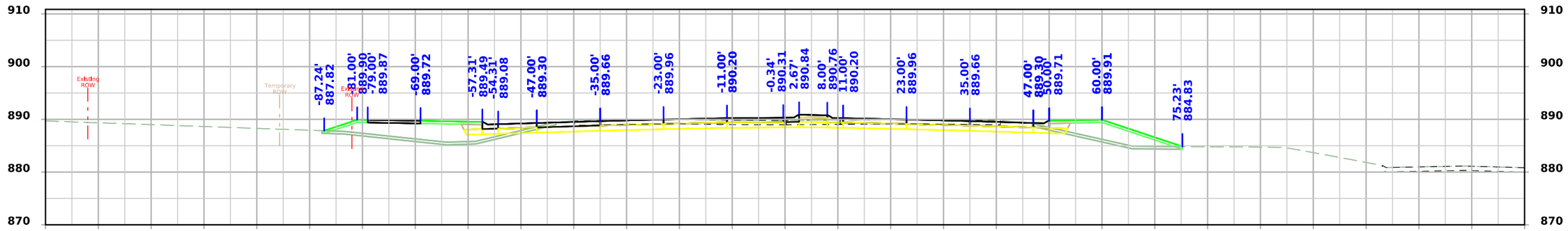
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V2

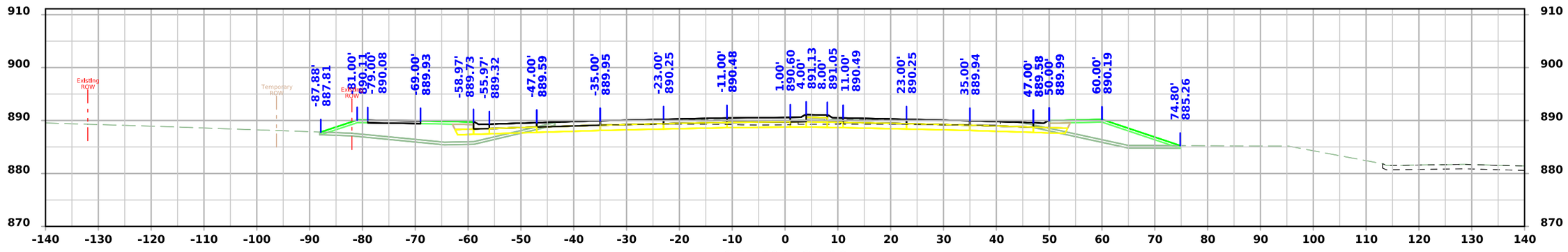
US 6 / Hickman Road - Final Condition



STA 694+75.00



STA 694+50.00



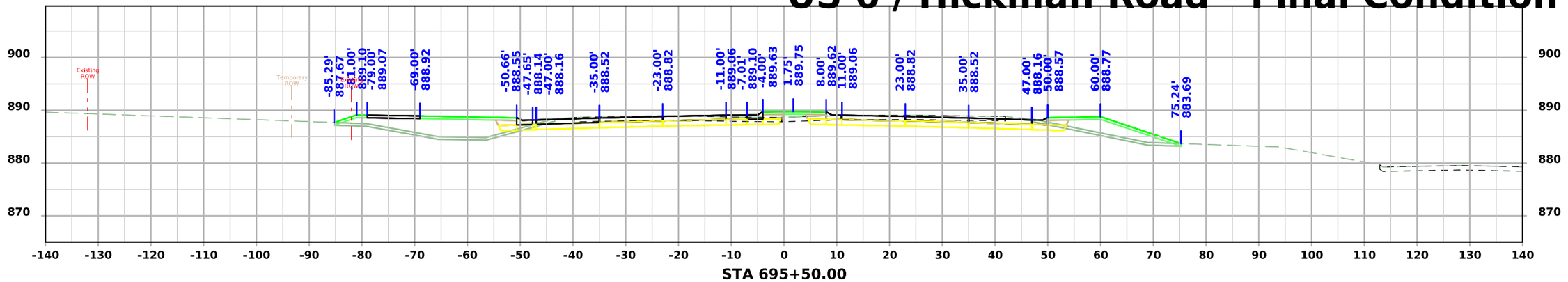
STA 694+25.00

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER W.240

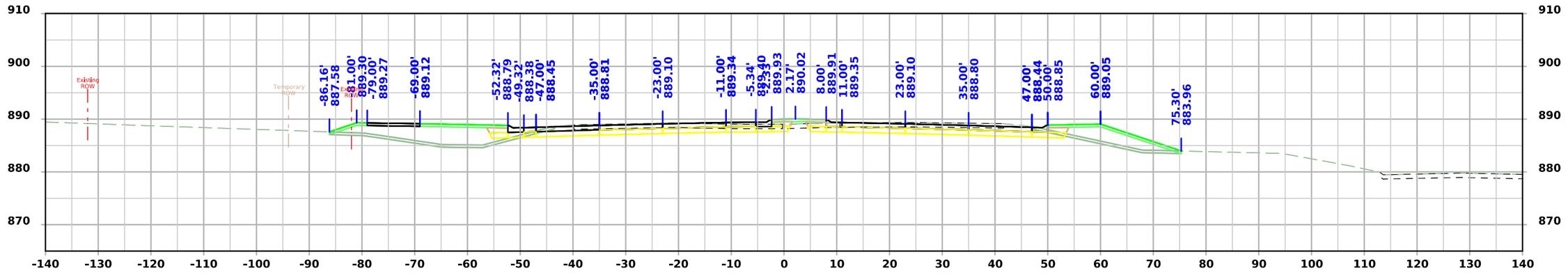
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V2

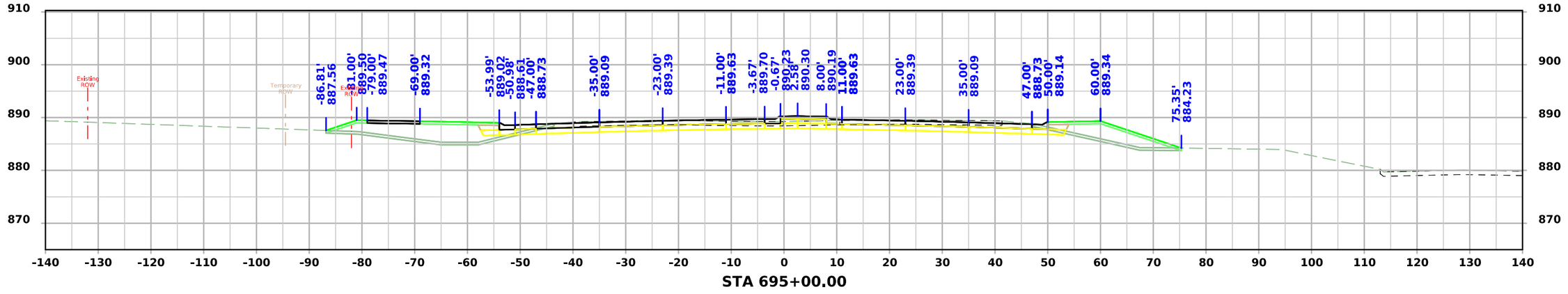
US 6 / Hickman Road - Final Condition



STA 695+50.00



STA 695+25.00



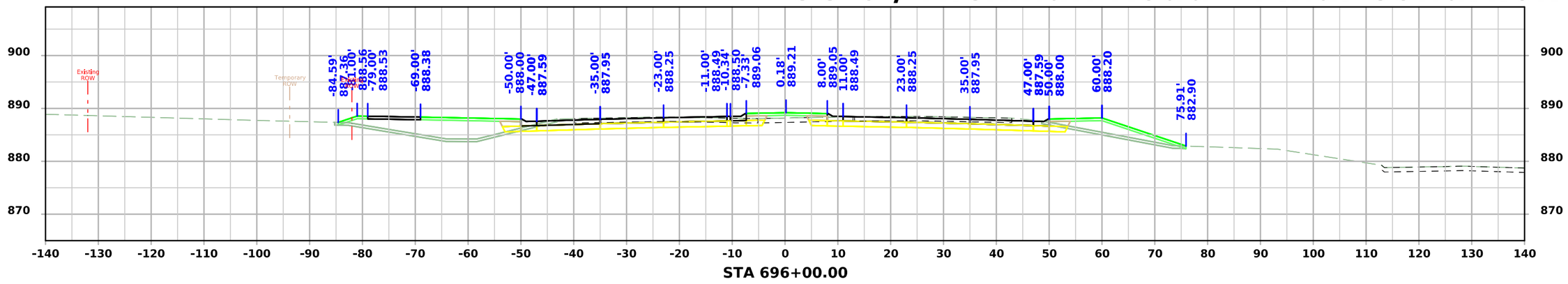
STA 695+00.00

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER W.241

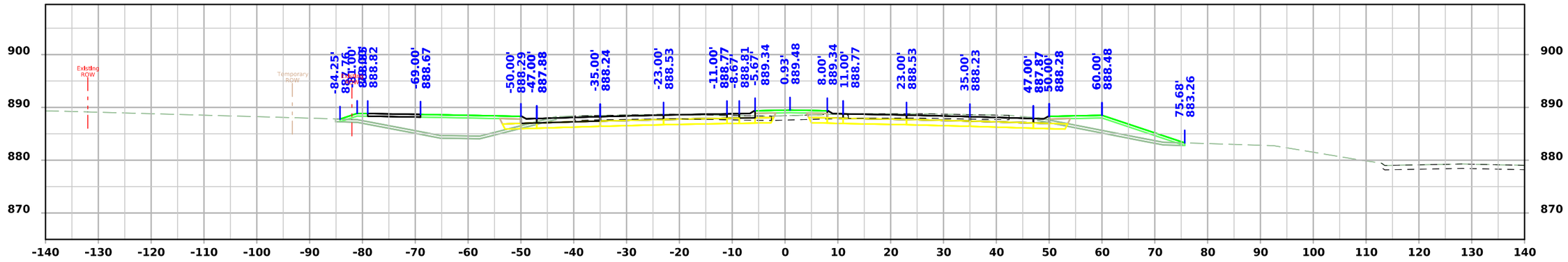
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V2

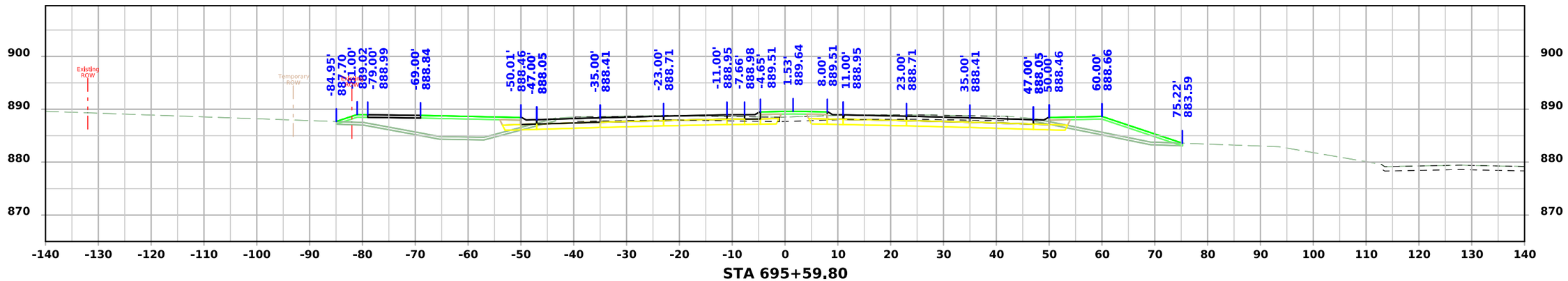
US 6 / Hickman Road - Final Condition



STA 696+00.00



STA 695+75.00



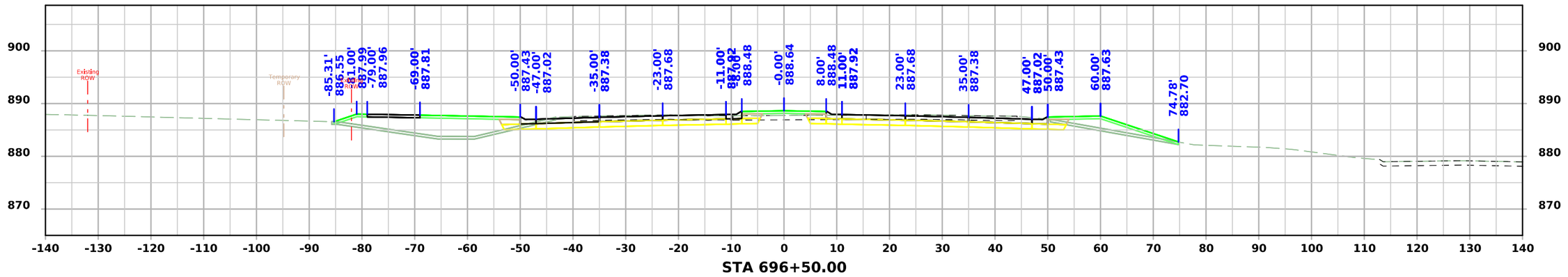
STA 695+59.80

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER W.242

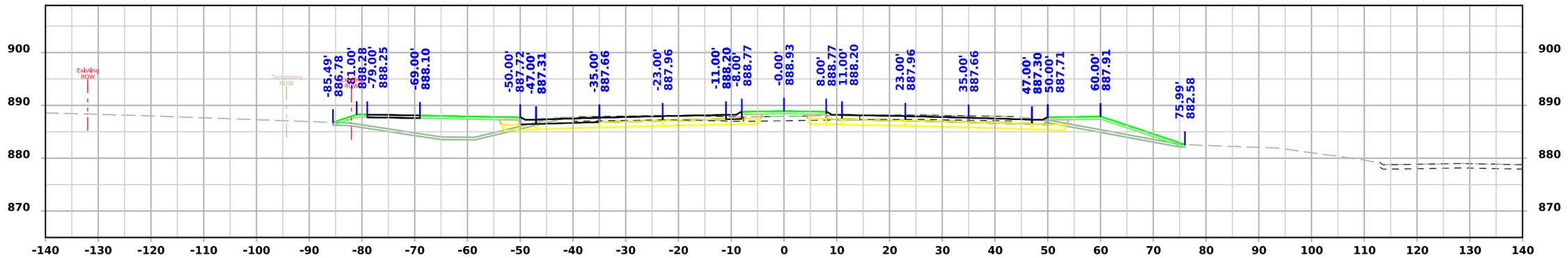
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V2

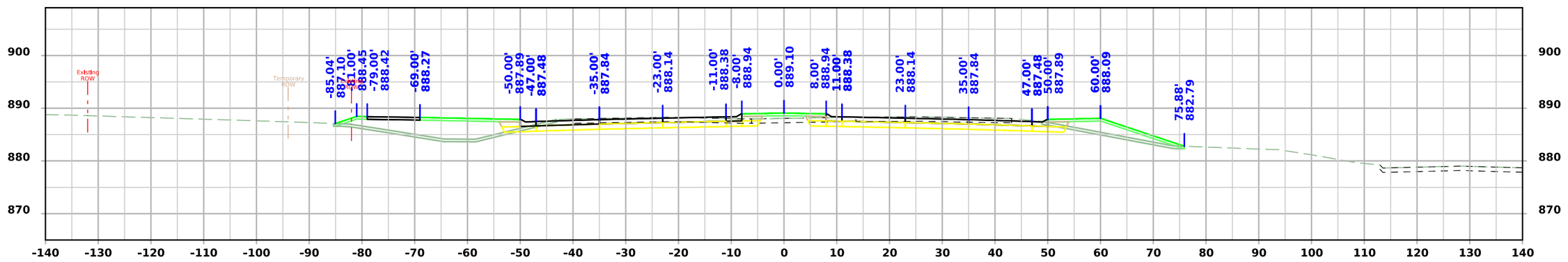
US 6 / Hickman Road - Final Condition



STA 696+50.00



STA 696+25.00



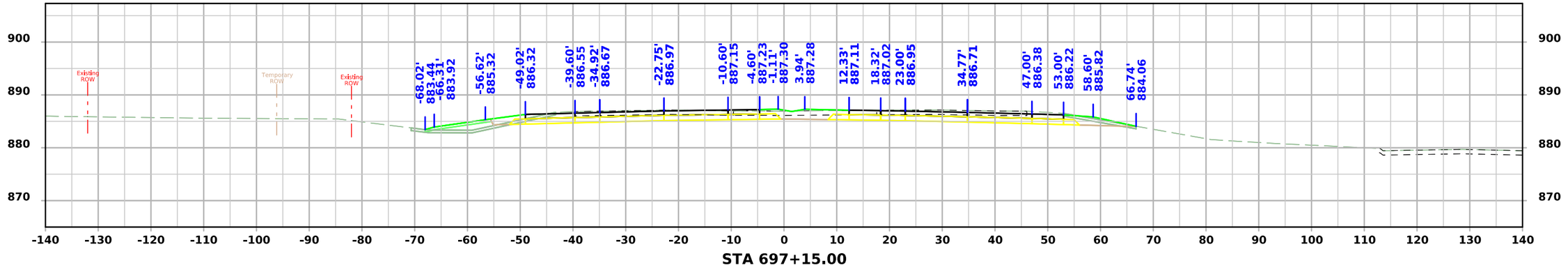
STA 696+10.00

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER W.243

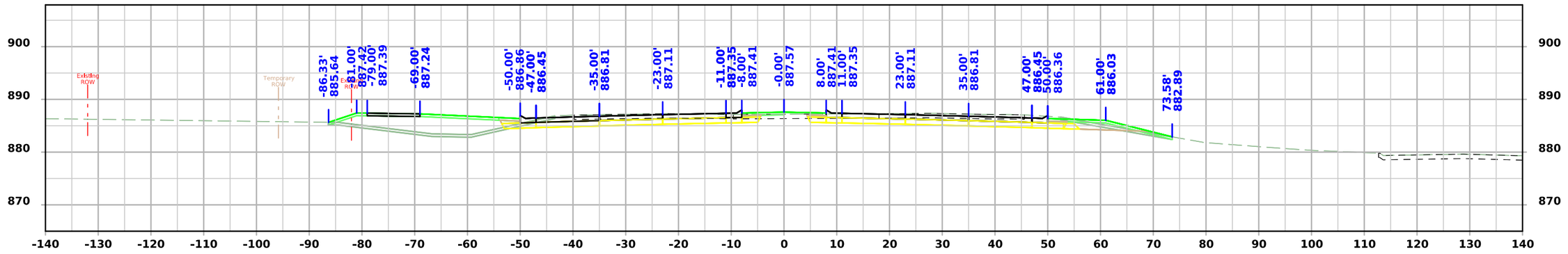
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V2

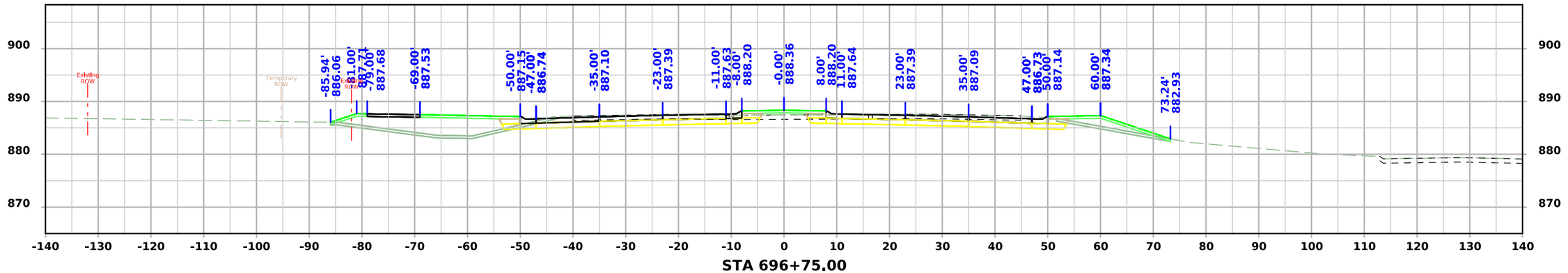
US 6 / Hickman Road - Final Condition



STA 697+15.00



STA 697+00.00



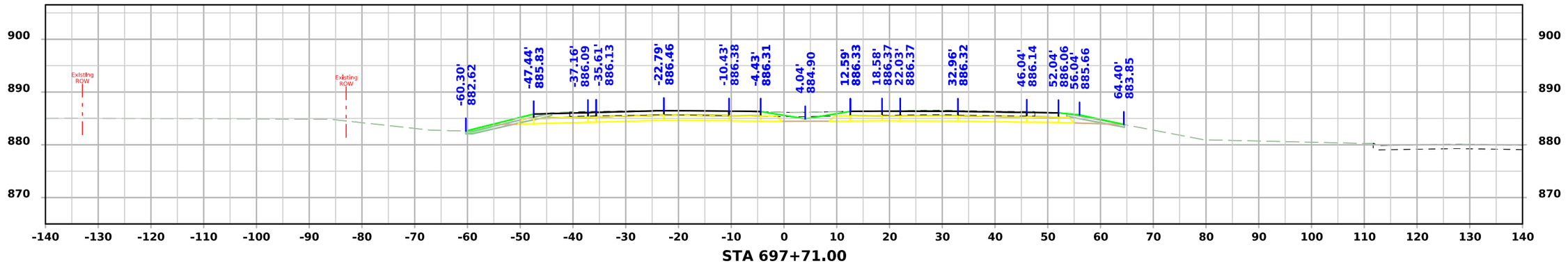
STA 696+75.00

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER W.244

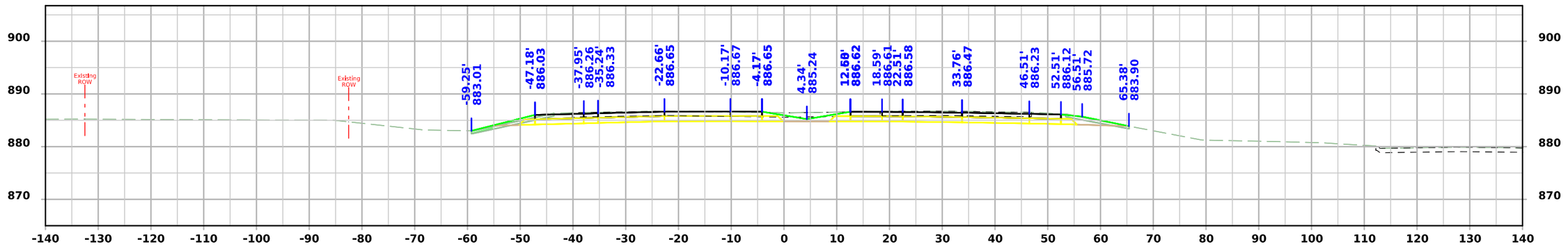
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V2

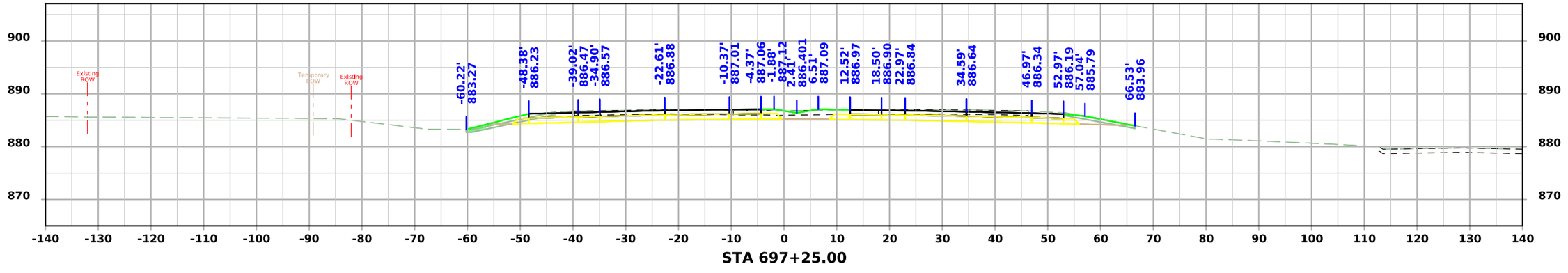
US 6 / Hickman Road - Final Condition



STA 697+71.00



STA 697+50.00



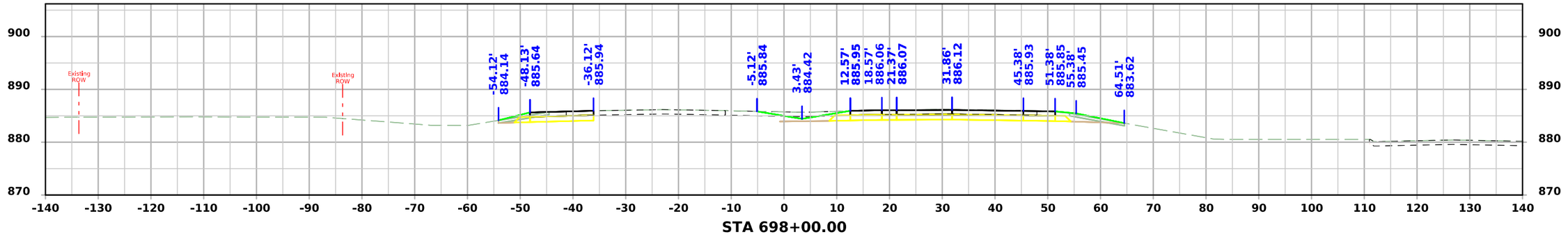
STA 697+25.00

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER W.245

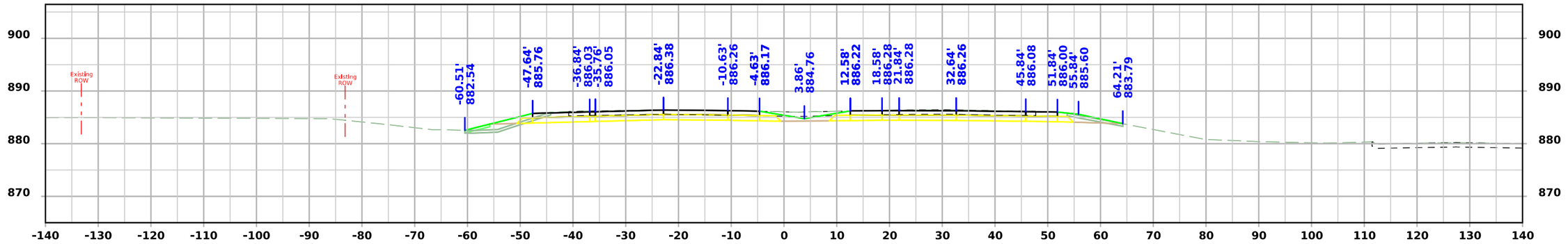
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V2

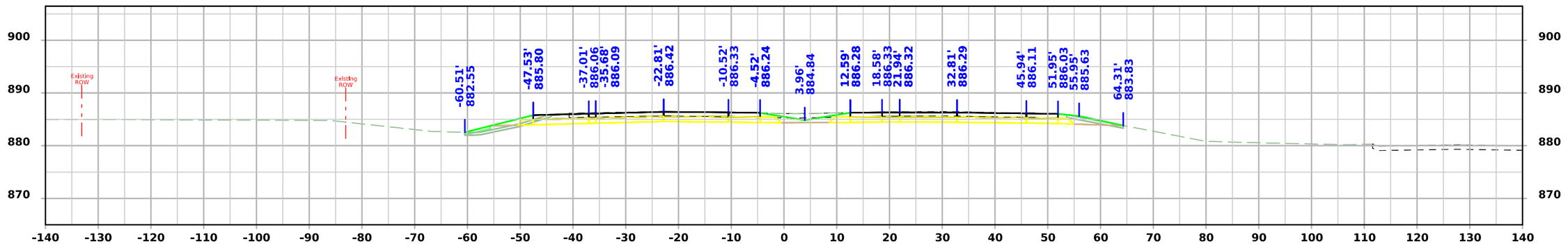
US 6 / Hickman Road - Final Condition



STA 698+00.00



STA 697+79.50



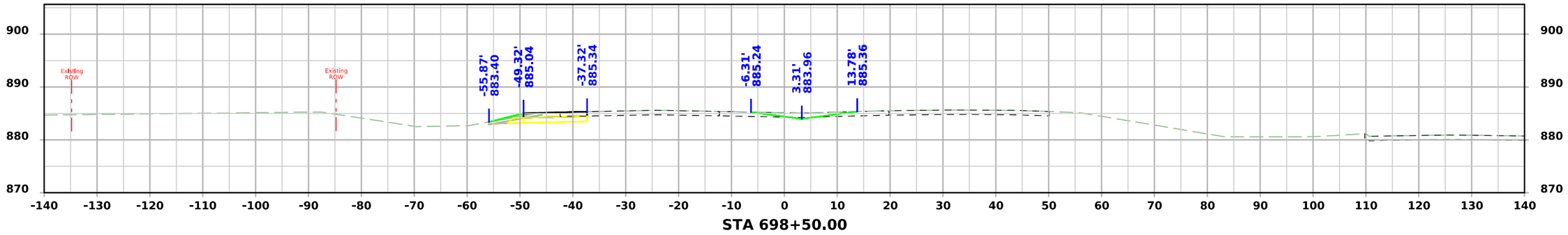
STA 697+75.00

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER W.246

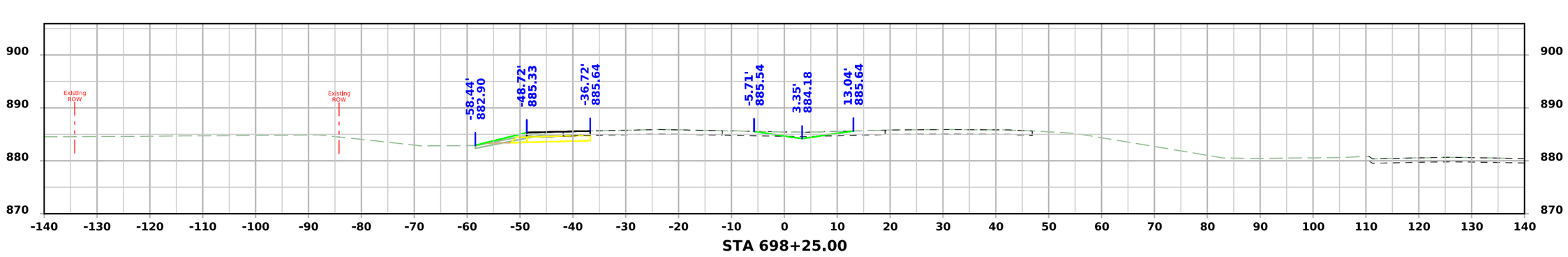
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V2

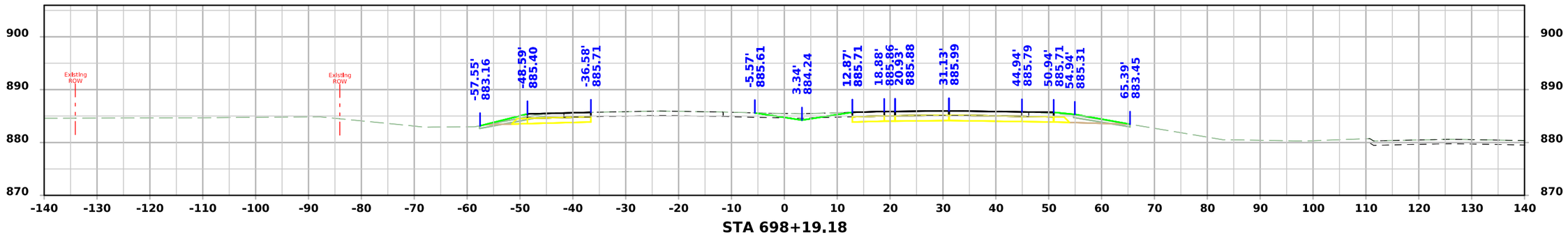
US 6 / Hickman Road - Final Condition



STA 698+50.00



STA 698+25.00



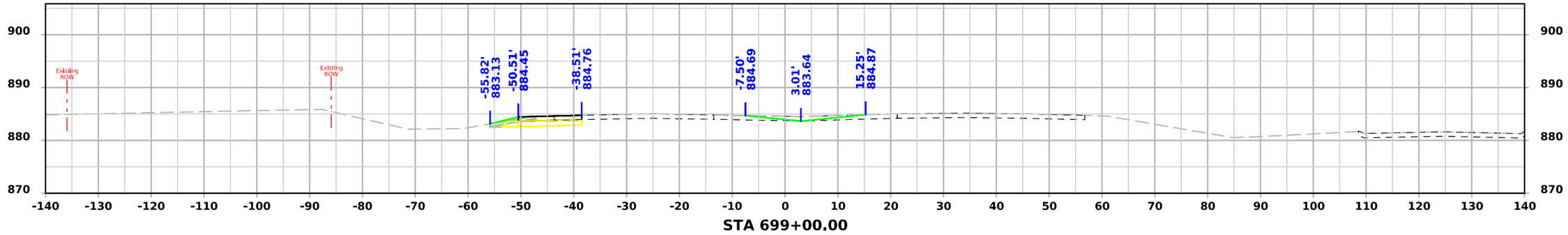
STA 698+19.18

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER W.247	

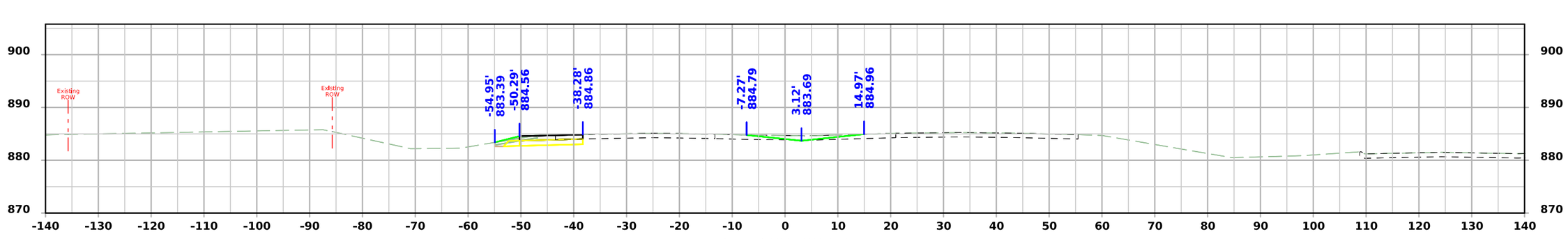
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V2

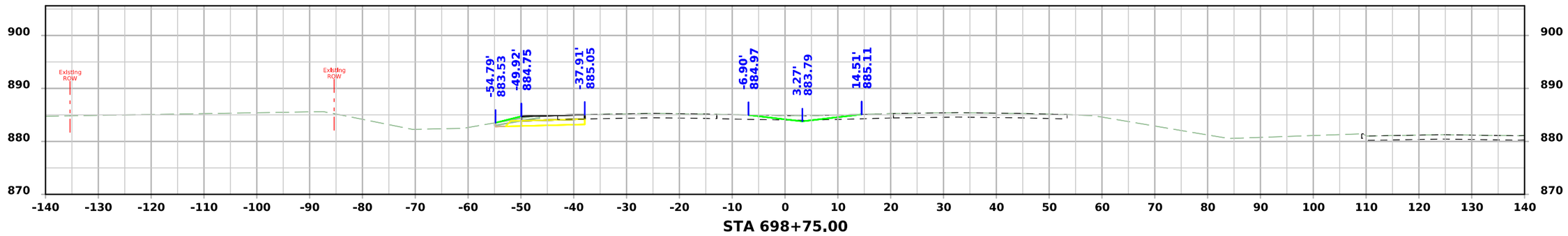
US 6 / Hickman Road - Final Condition



STA 699+00.00



STA 698+90.62



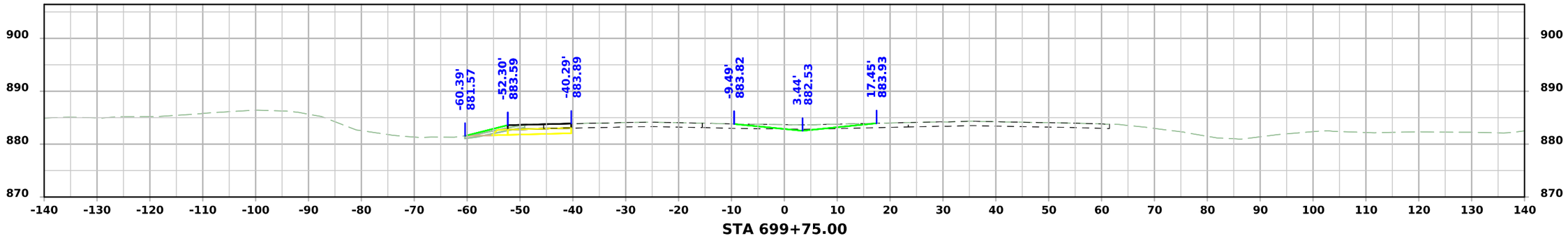
STA 698+75.00

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER W.248

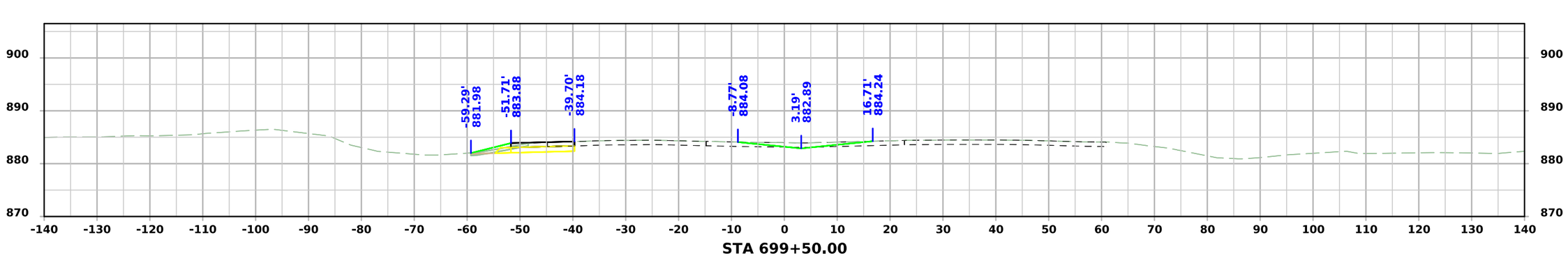
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V2

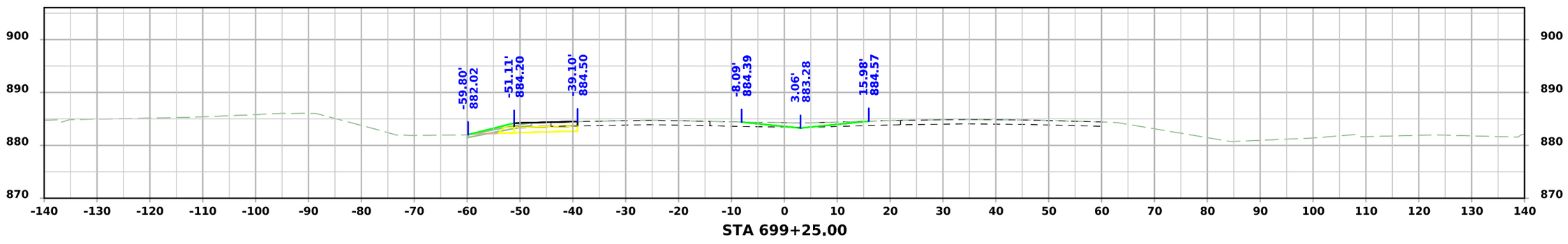
US 6 / Hickman Road - Final Condition



STA 699+75.00



STA 699+50.00



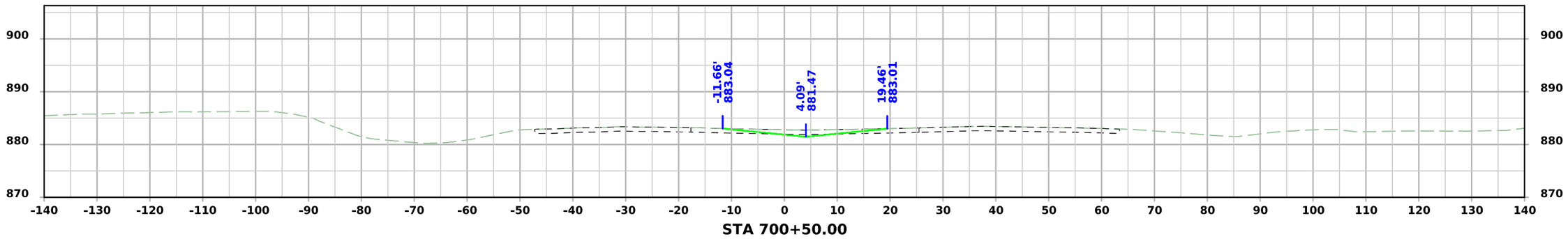
STA 699+25.00

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER W.249

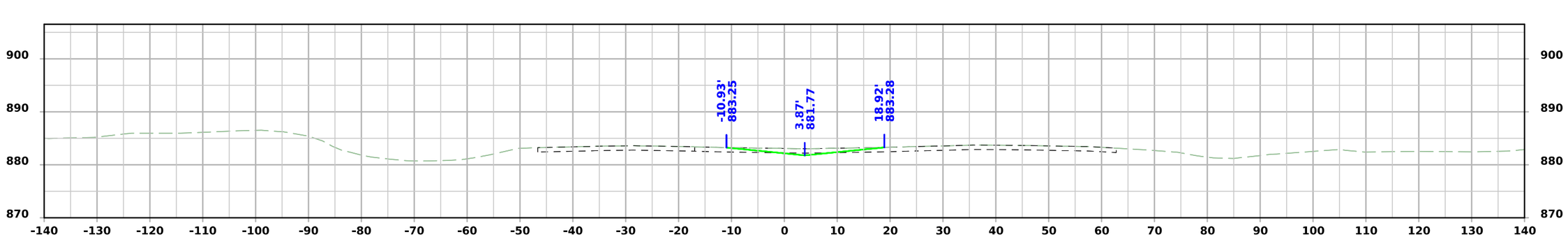
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V2

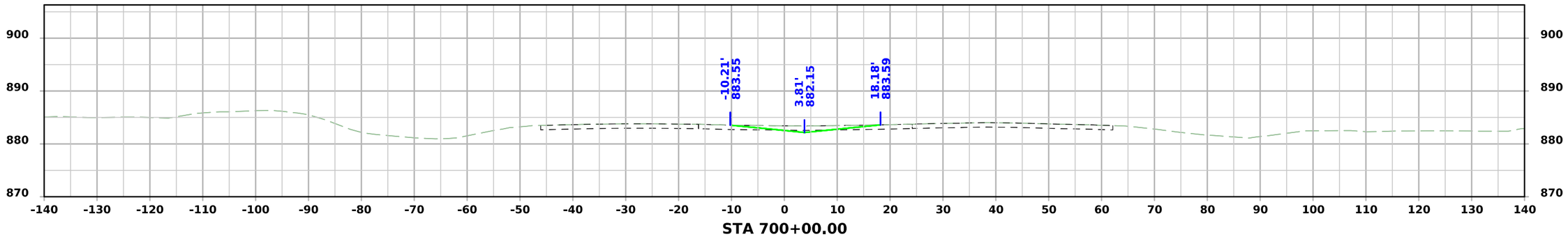
US 6 / Hickman Road - Final Condition



STA 700+50.00



STA 700+25.00



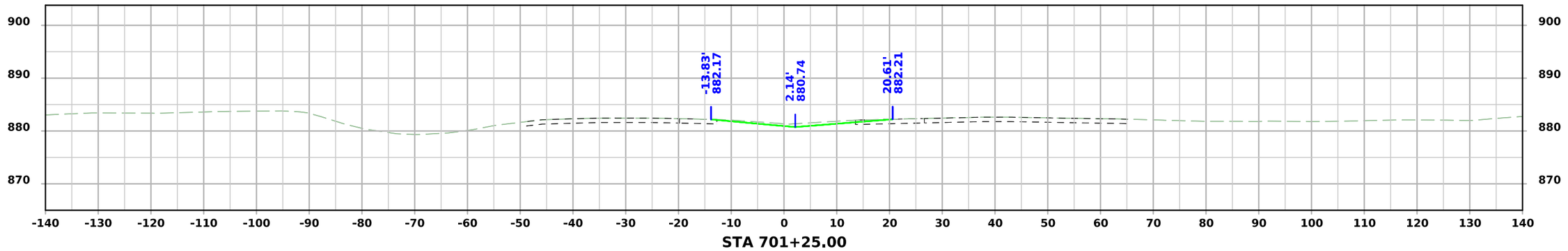
STA 700+00.00

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER W.250	

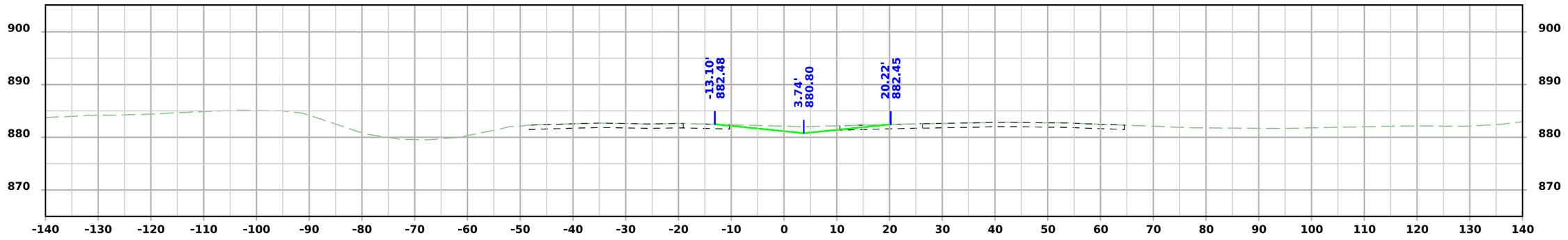
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V2

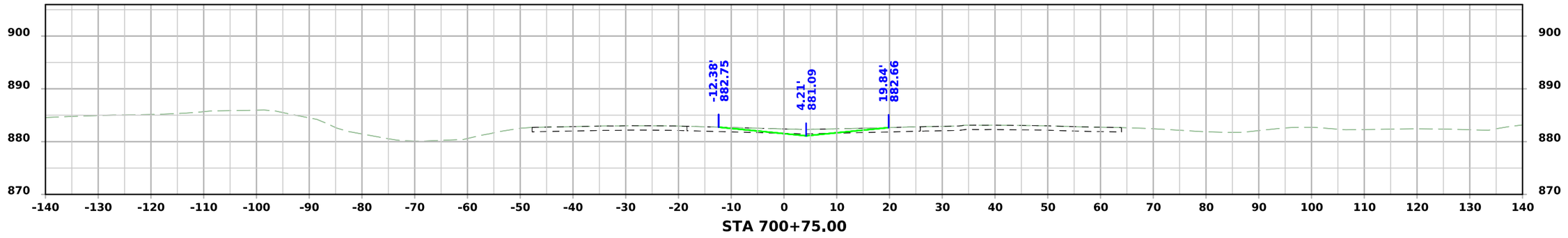
US 6 / Hickman Road - Final Condition



STA 701+25.00



STA 701+00.00



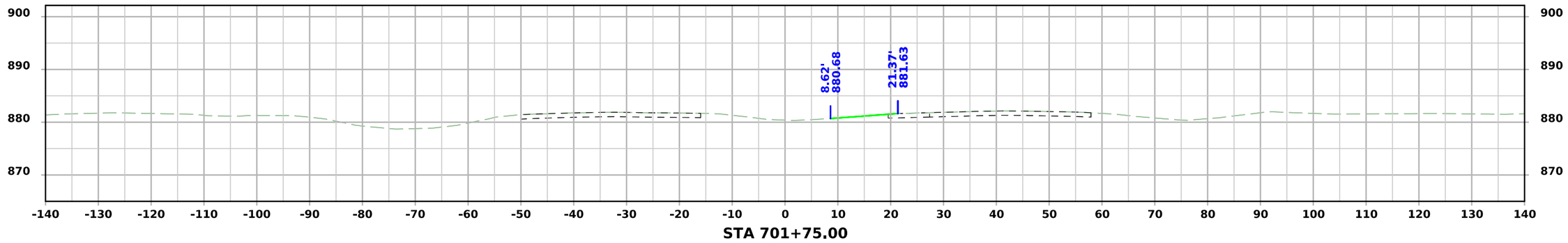
STA 700+75.00

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER W.251

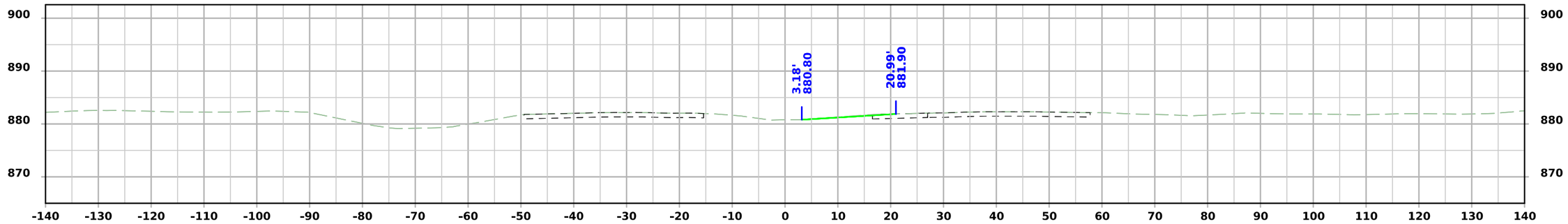
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V2

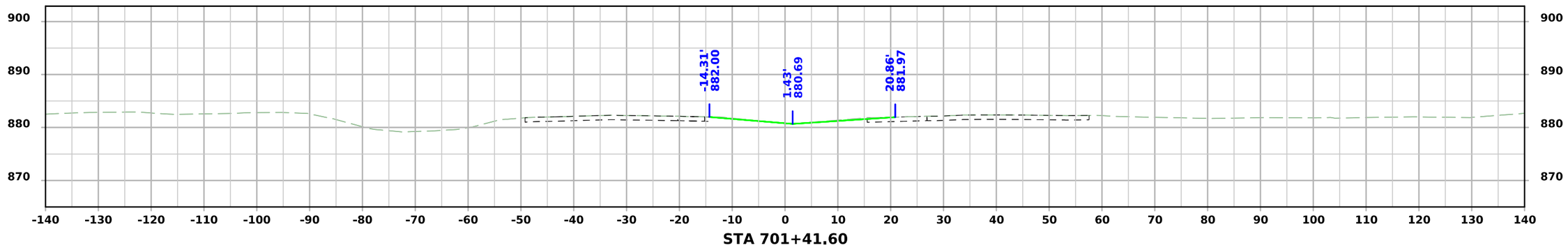
US 6 / Hickman Road - Final Condition



STA 701+75.00



STA 701+50.00



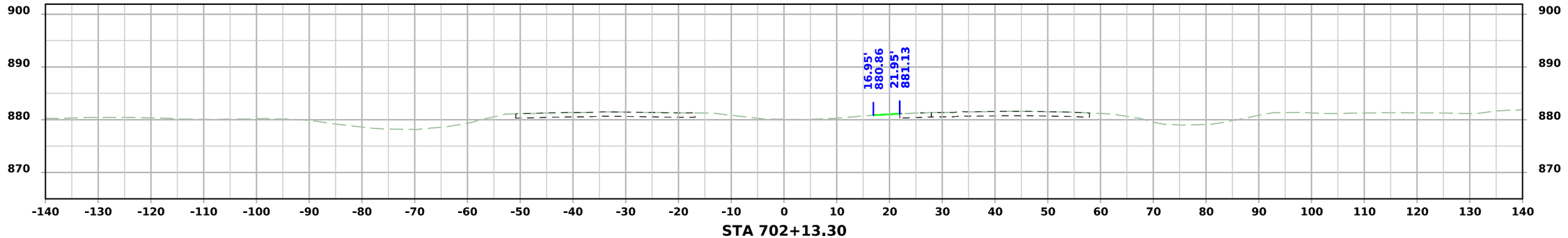
STA 701+41.60

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER W.252

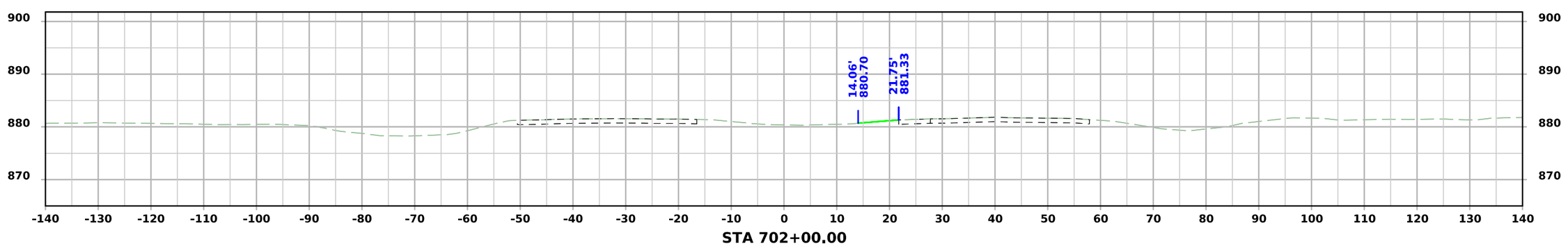
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V2

US 6 / Hickman Road - Final Condition



STA 702+13.30



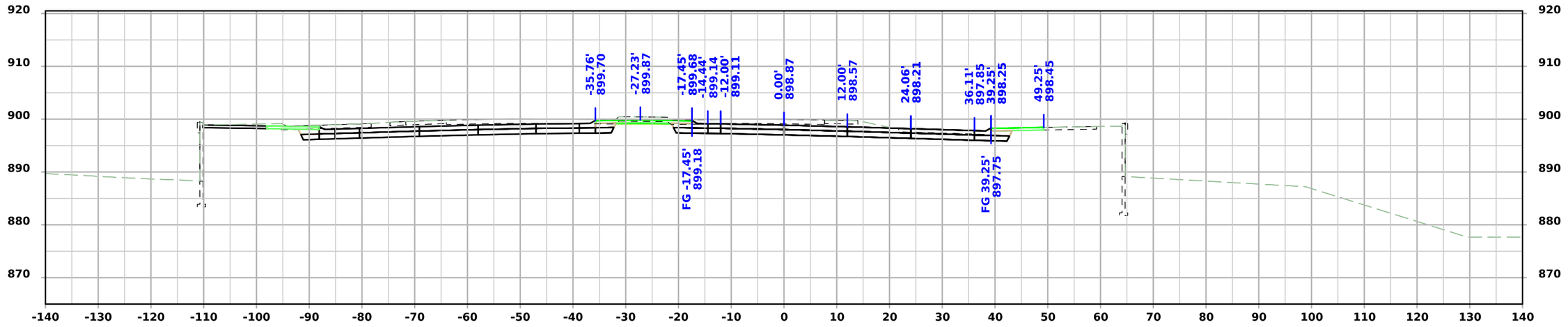
STA 702+00.00

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER W.253

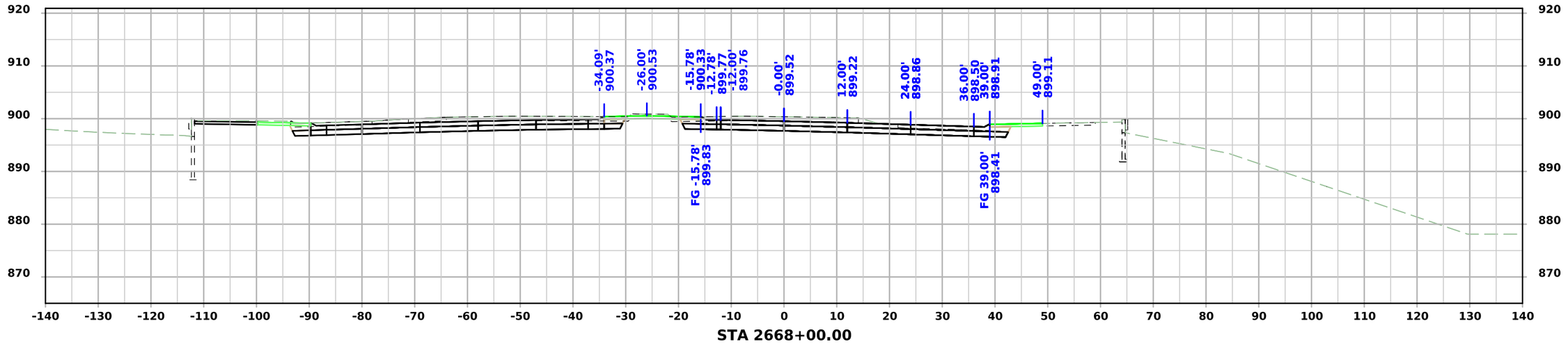
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V2

US 6 / Hickman Road EB - Final Condition



STA 2668+25.00



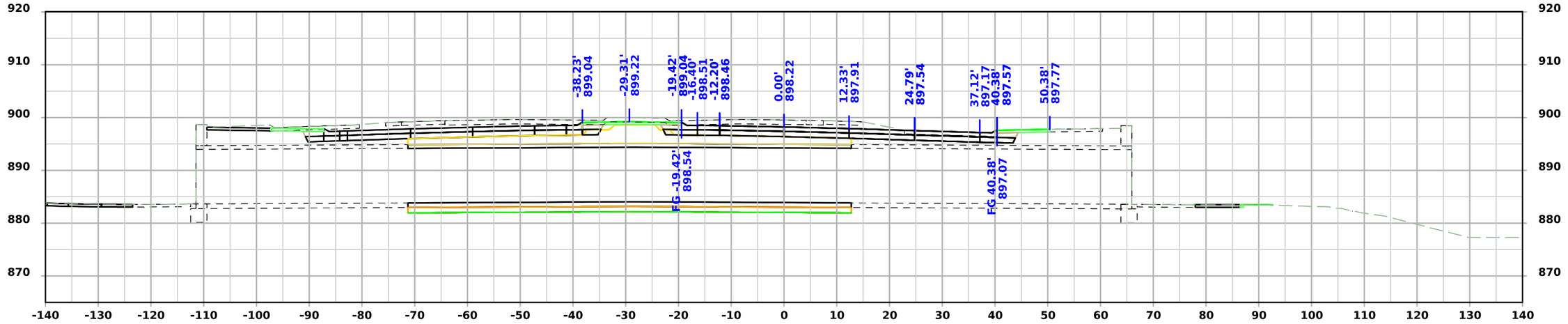
STA 2668+00.00

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER W.300

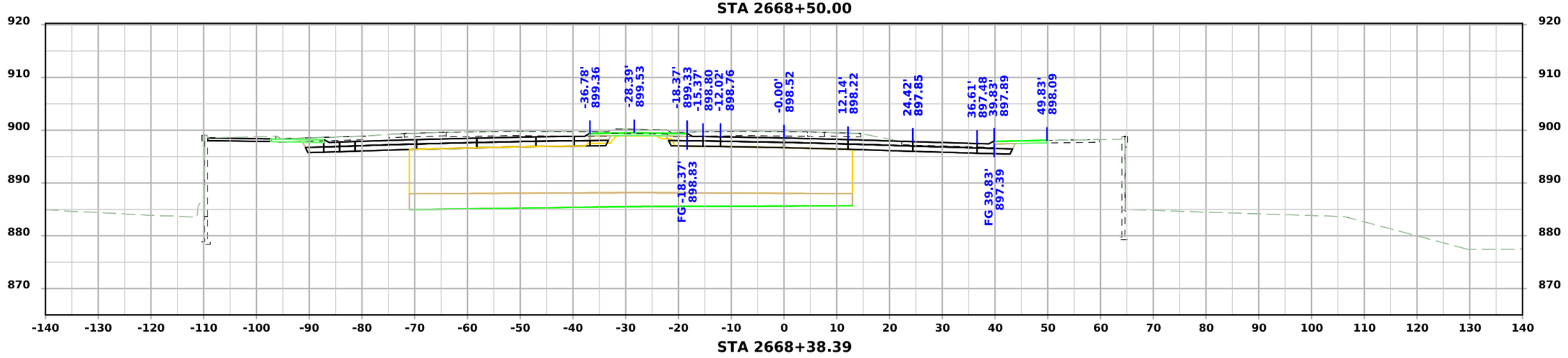
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V2

US 6 / Hickman Road EB - Final Condition



STA 2668+50.00



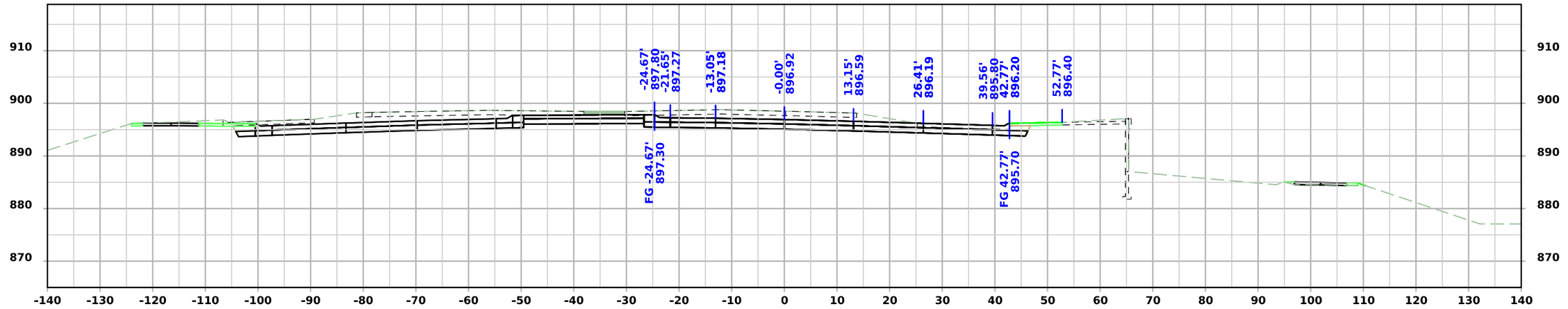
STA 2668+38.39

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER W.301

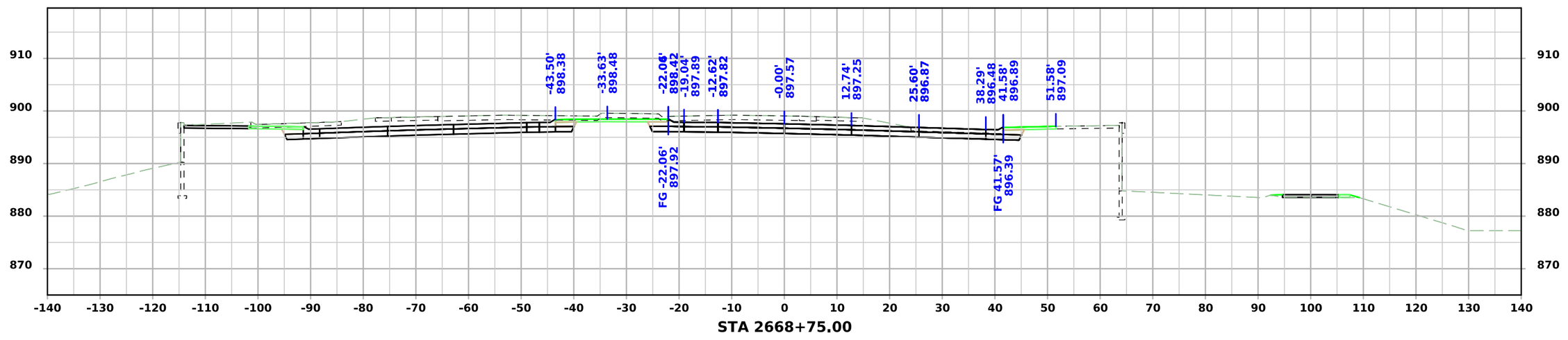
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V2

US 6 / Hickman Road EB - Final Condition



STA 2669+00.00



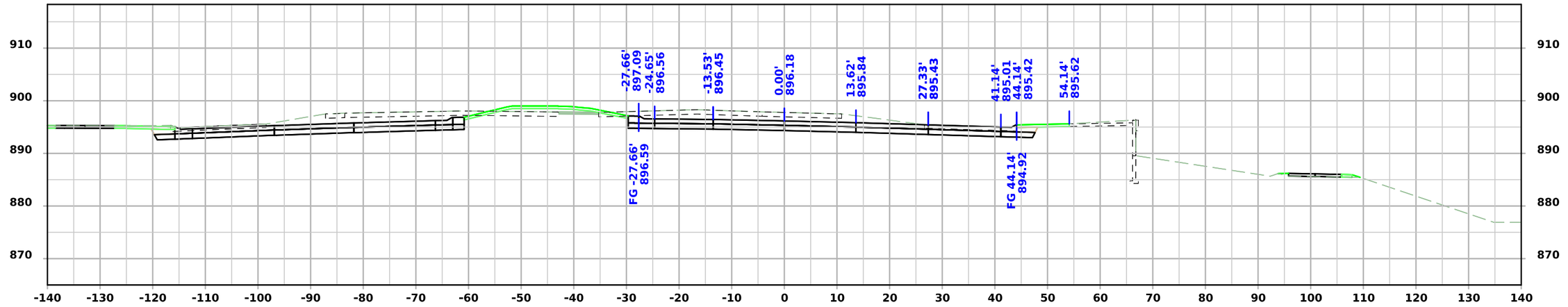
STA 2668+75.00

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER W.302	

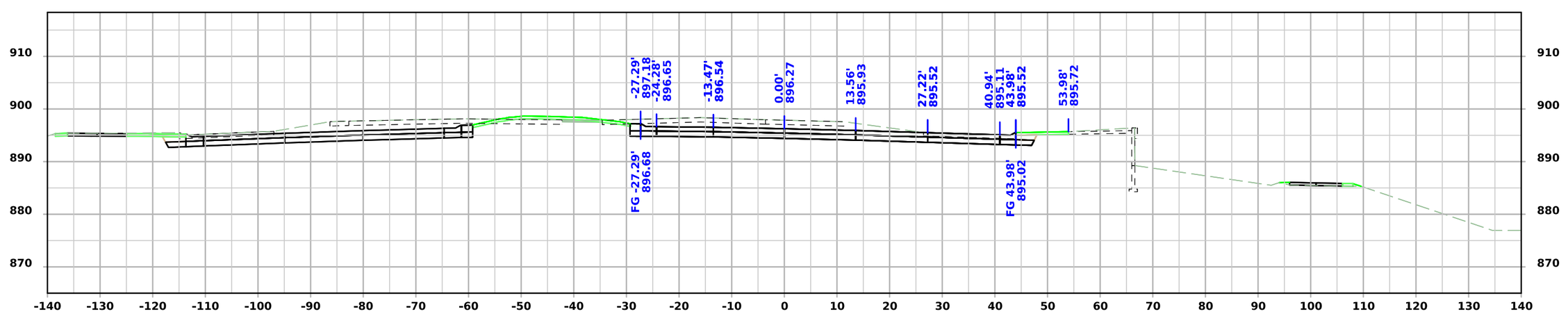
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V2

US 6 / Hickman Road EB - Final Condition



STA 2669+28.50



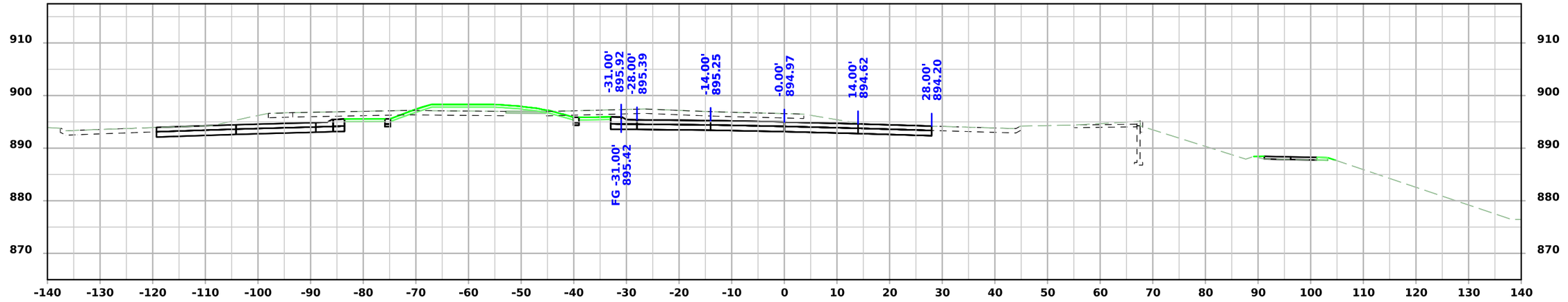
STA 2669+25.00

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER W.303

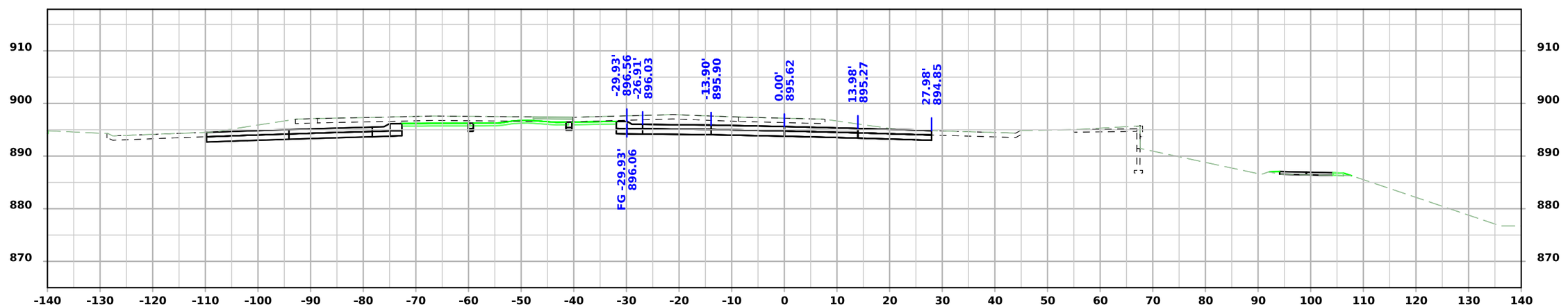
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V2

US 6 / Hickman Road EB - Final Condition



STA 2669+75.00



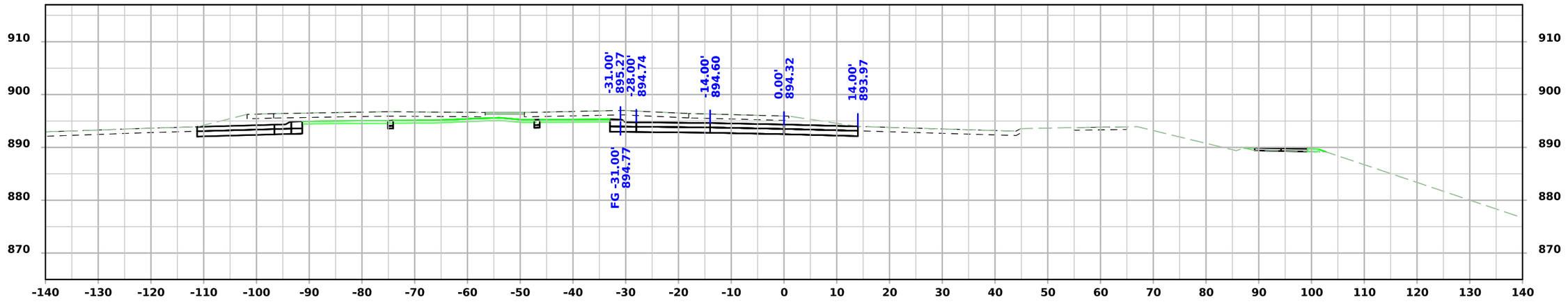
STA 2669+50.00

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER W.304

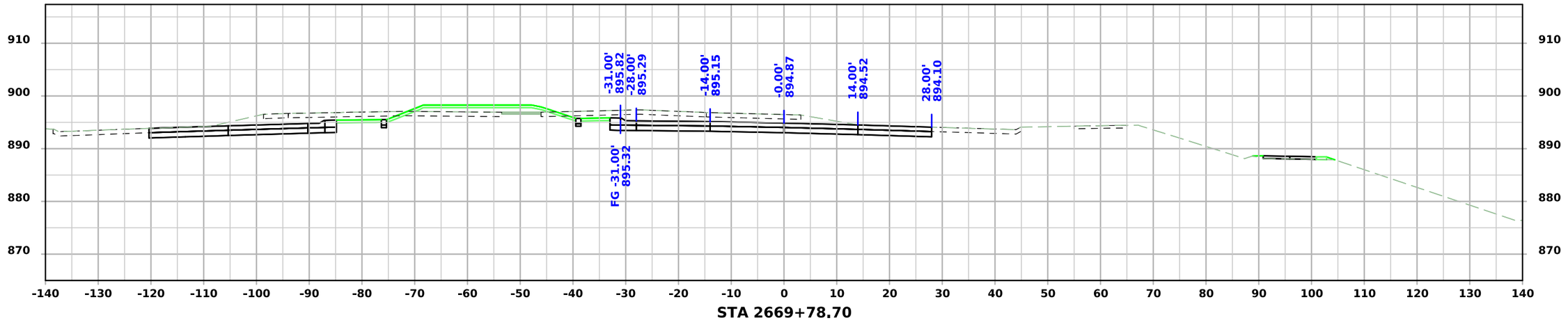
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V2

US 6 / Hickman Road EB - Final Condition



STA 2670+00.00



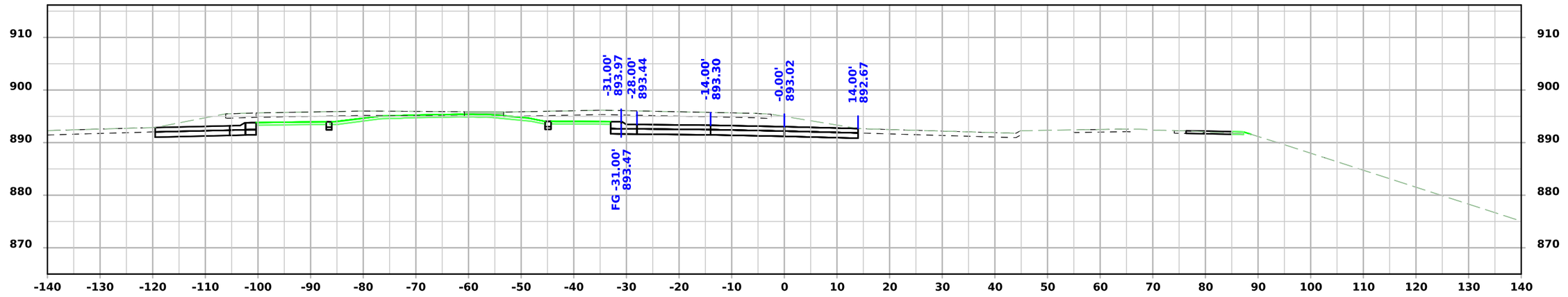
STA 2669+78.70

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER W.305

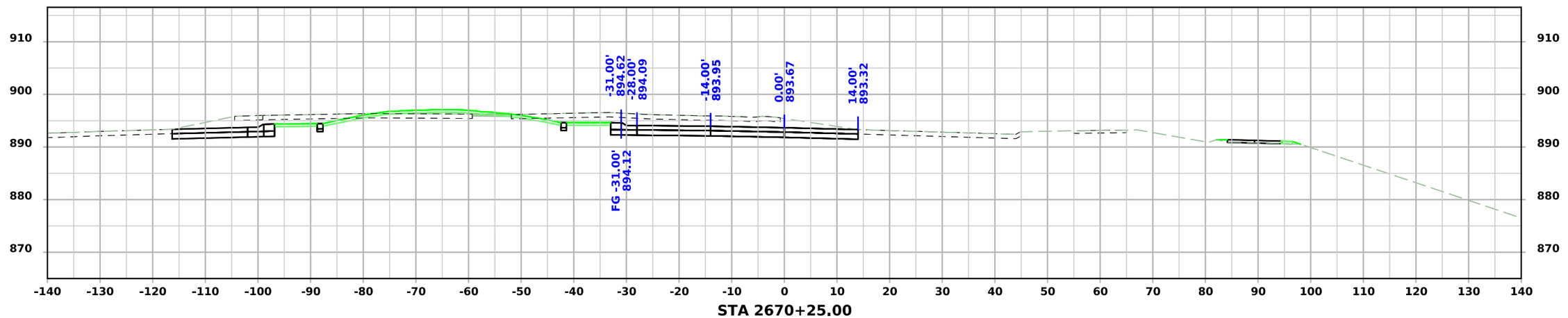
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V2

US 6 / Hickman Road EB - Final Condition



STA 2670+50.00



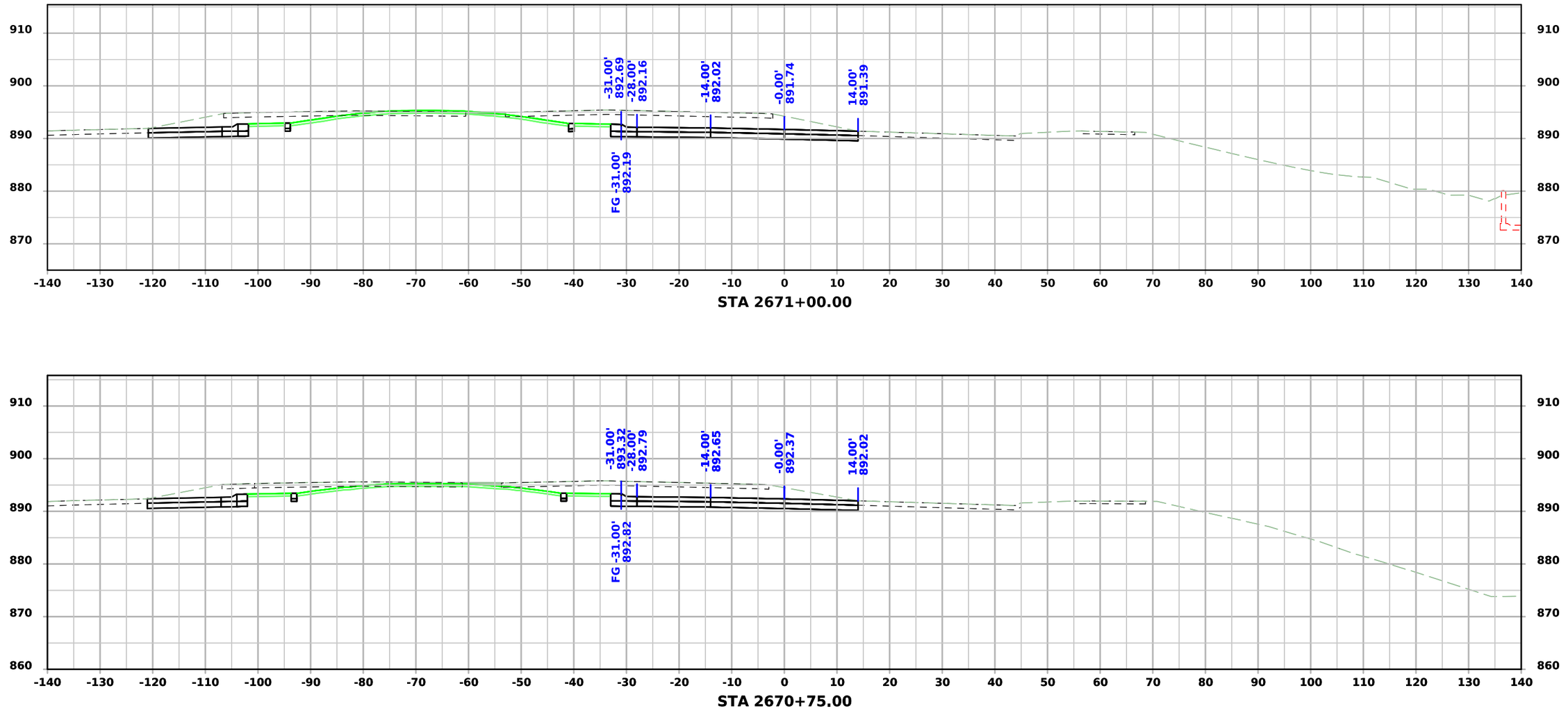
STA 2670+25.00

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER W.306

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V2

US 6 / Hickman Road EB - Final Condition



STA 2671+00.00

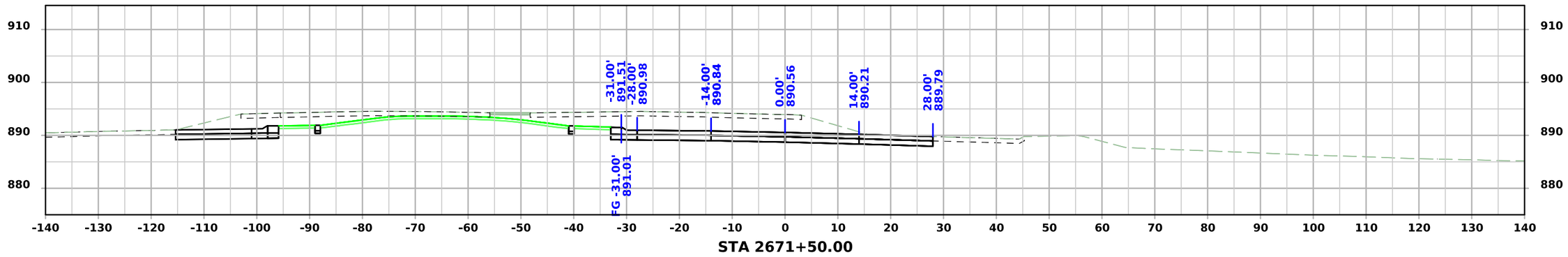
STA 2670+75.00

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER W.307

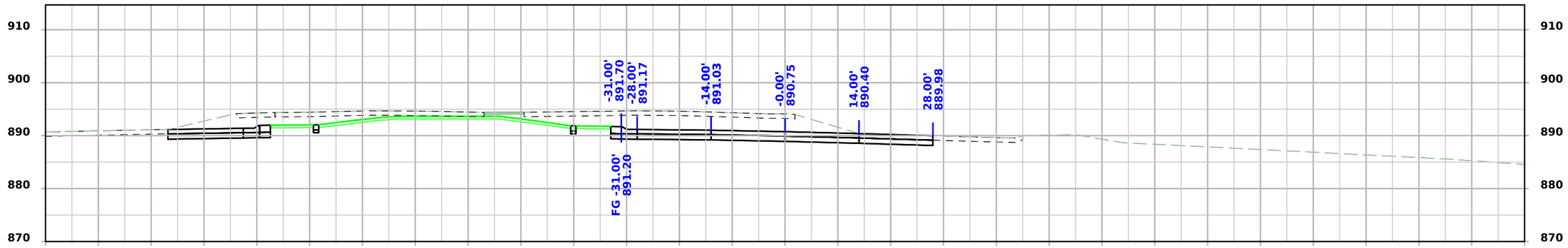
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V2

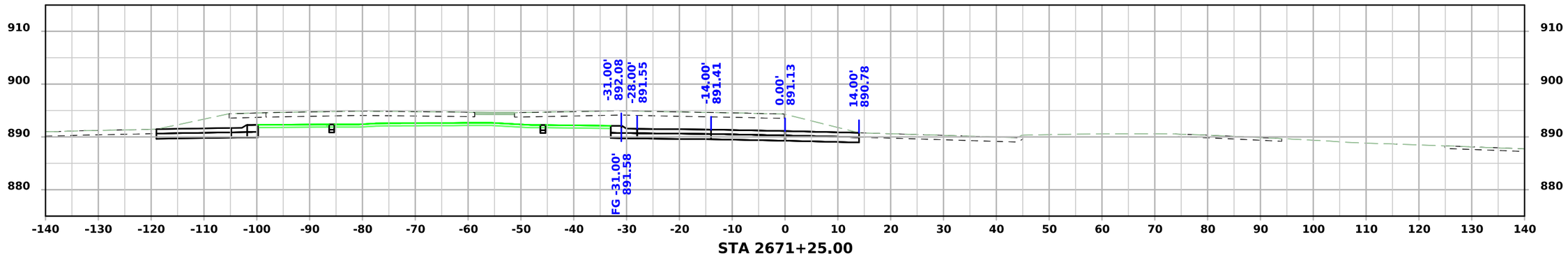
US 6 / Hickman Road EB - Final Condition



STA 2671+50.00



STA 2671+41.50



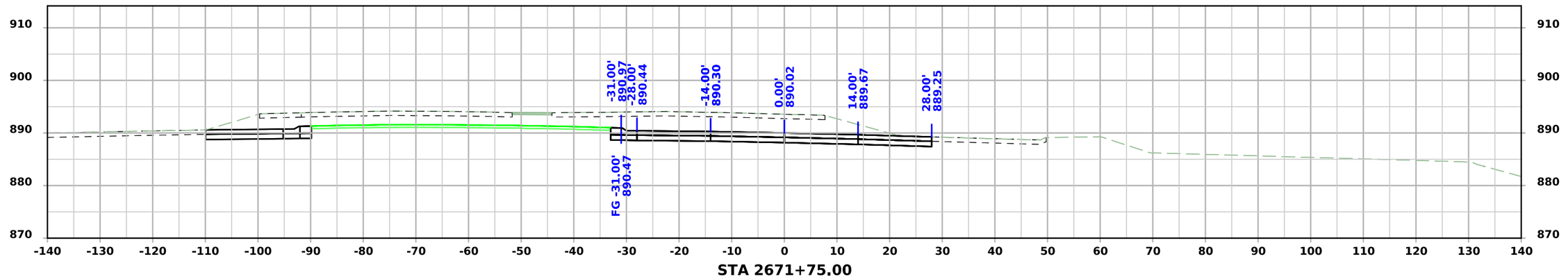
STA 2671+25.00

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER W.308

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V2

US 6 / Hickman Road EB - Final Condition

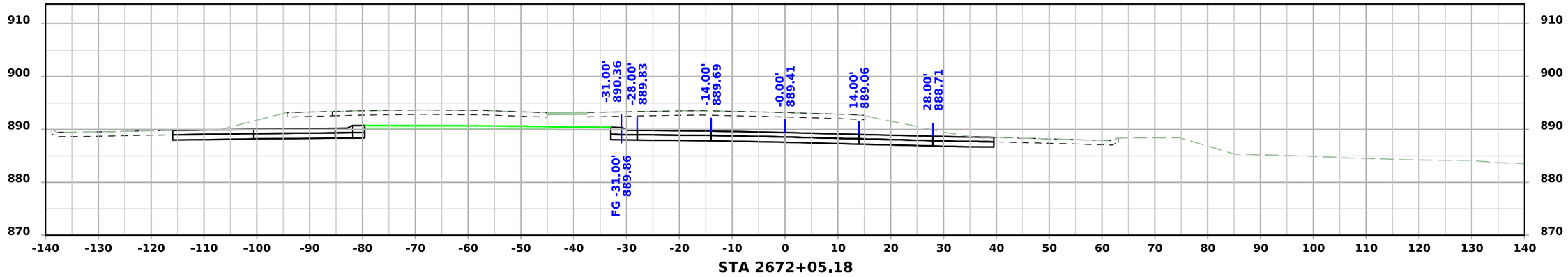


FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER W.309

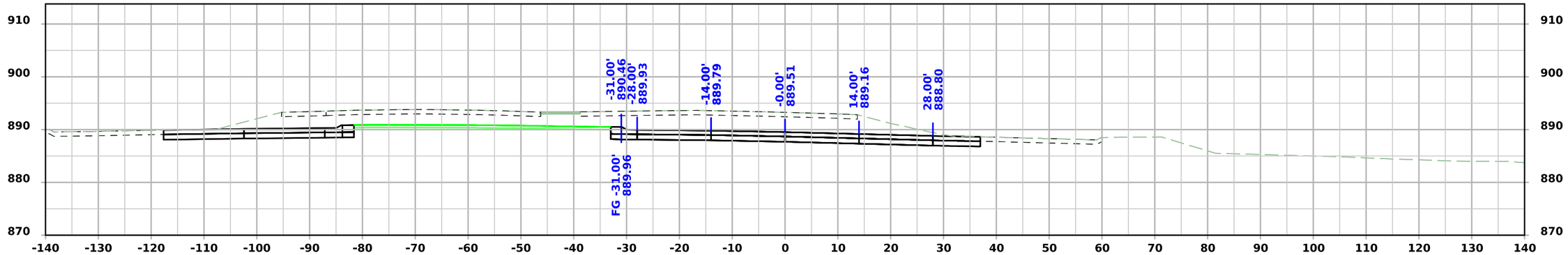
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V2

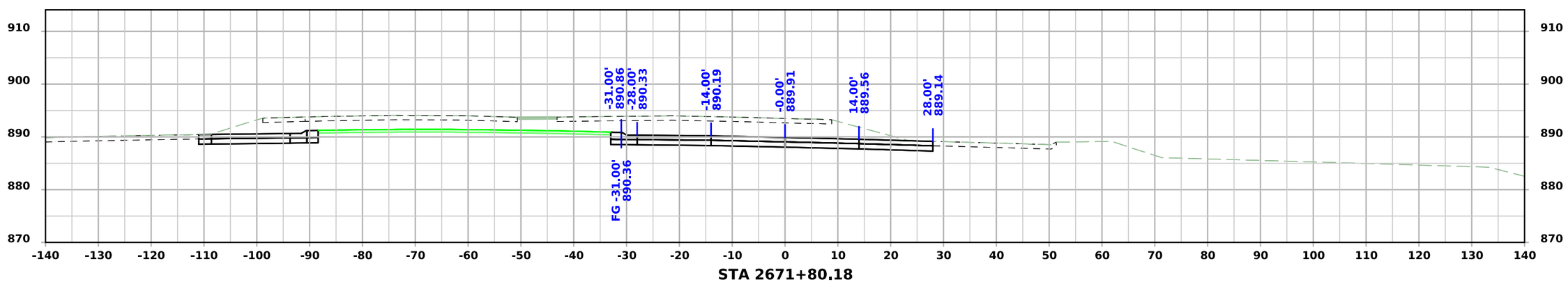
US 6 / Hickman Road EB - Final Condition



STA 2672+05.18



STA 2672+00.00



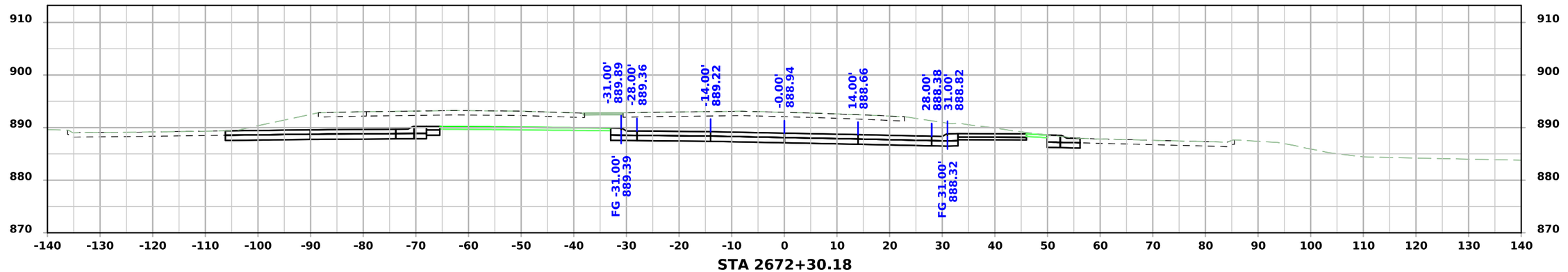
STA 2671+80.18

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER W.310

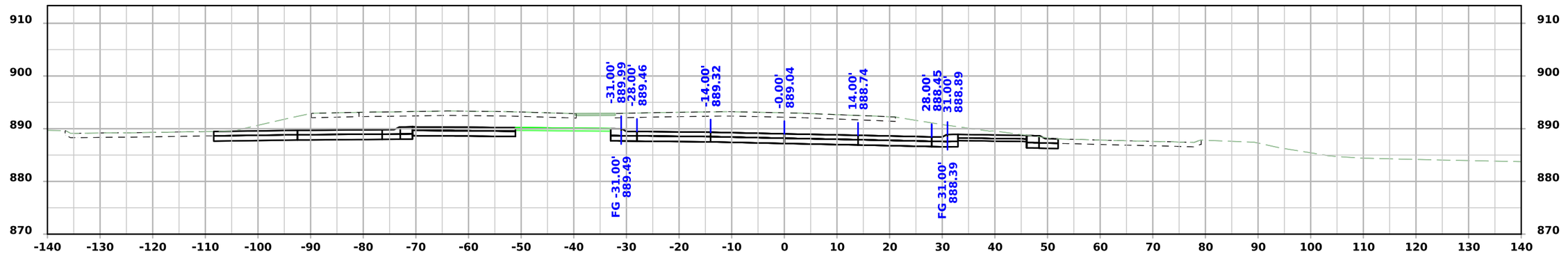
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V2

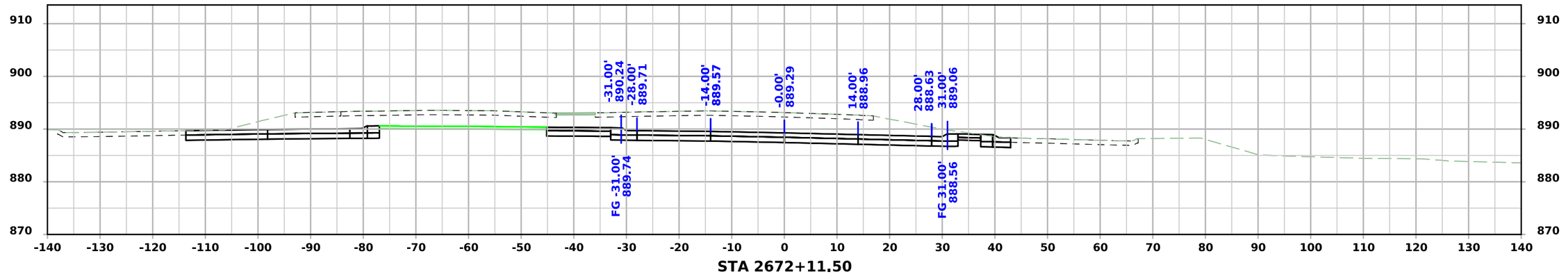
US 6 / Hickman Road EB - Final Condition



STA 2672+30.18



STA 2672+25.00



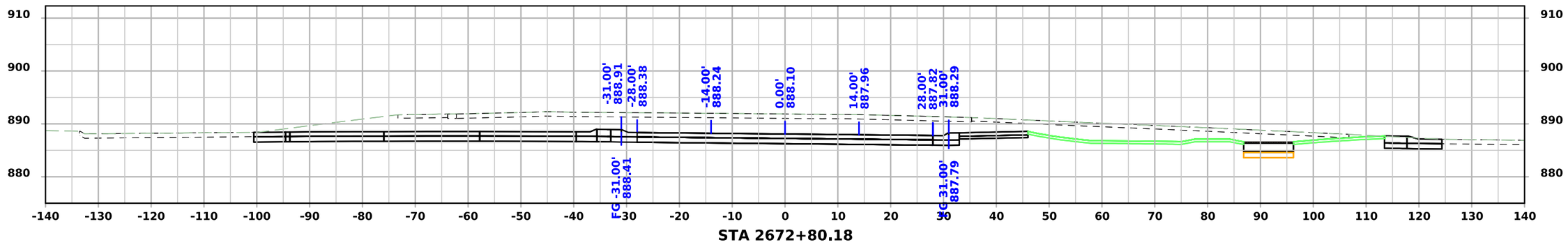
STA 2672+11.50

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER W.311

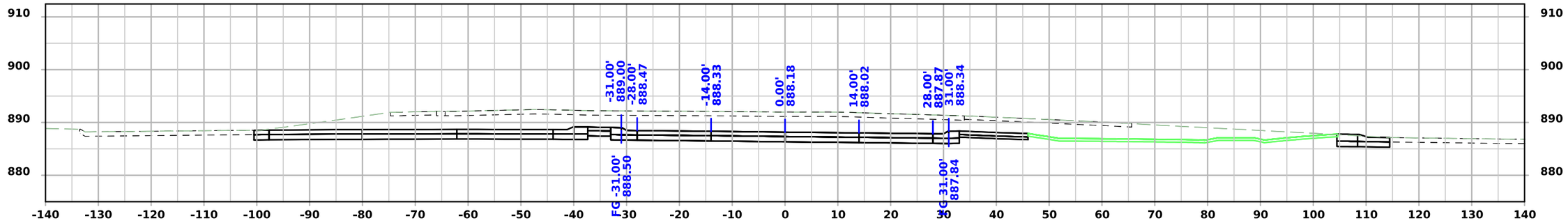
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V2

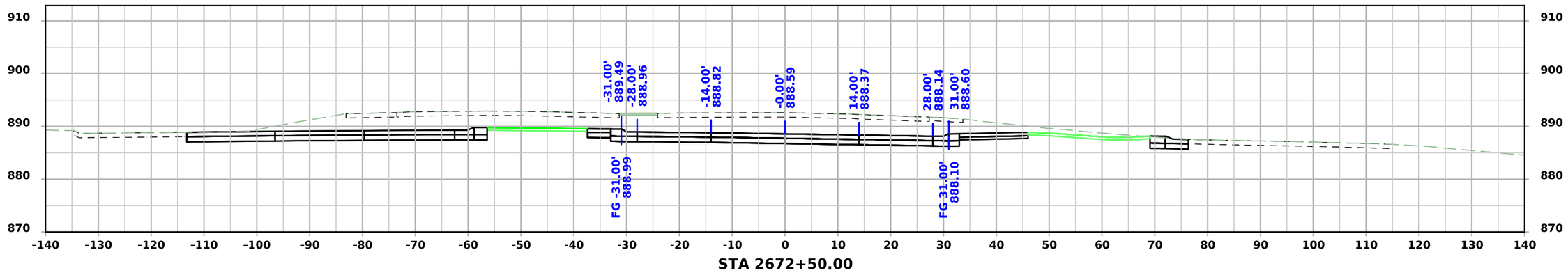
US 6 / Hickman Road EB - Final Condition



STA 2672+80.18



STA 2672+75.00



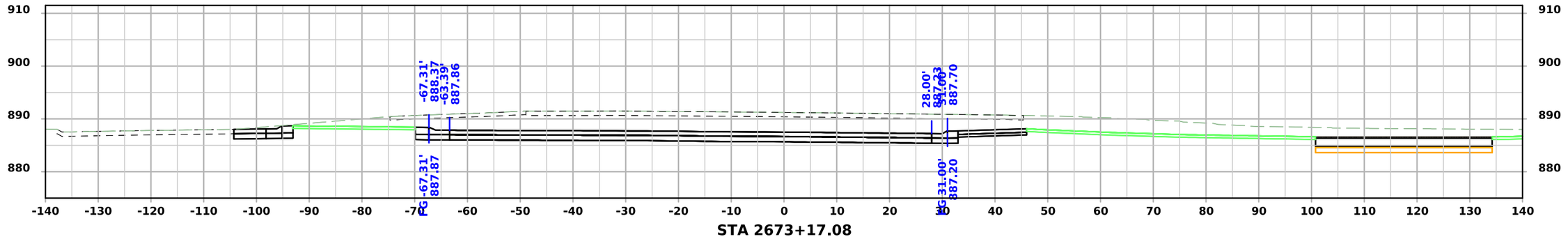
STA 2672+50.00

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER W.312

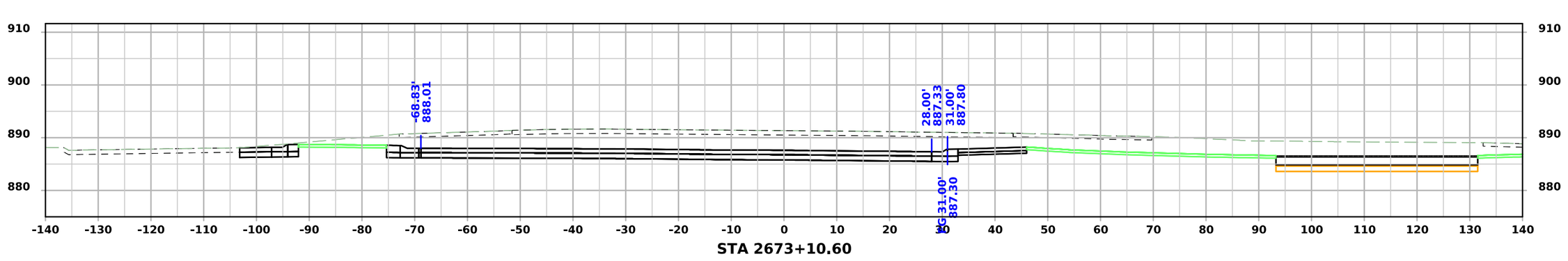
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V2

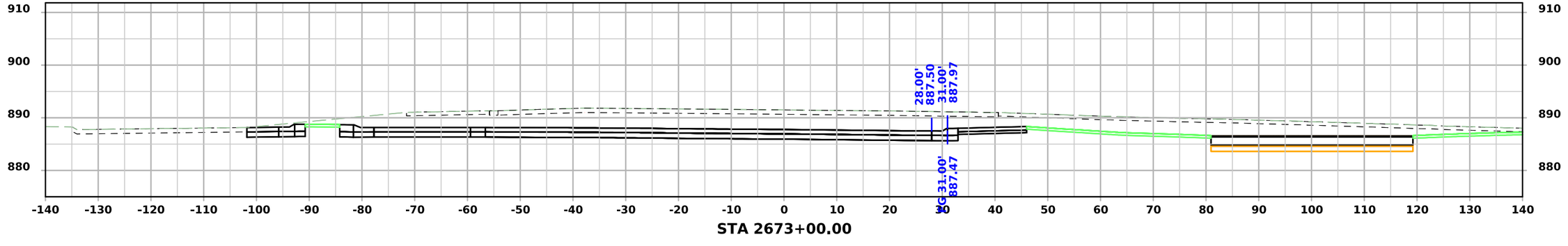
US 6 / Hickman Road EB - Final Condition



STA 2673+17.08



STA 2673+10.60



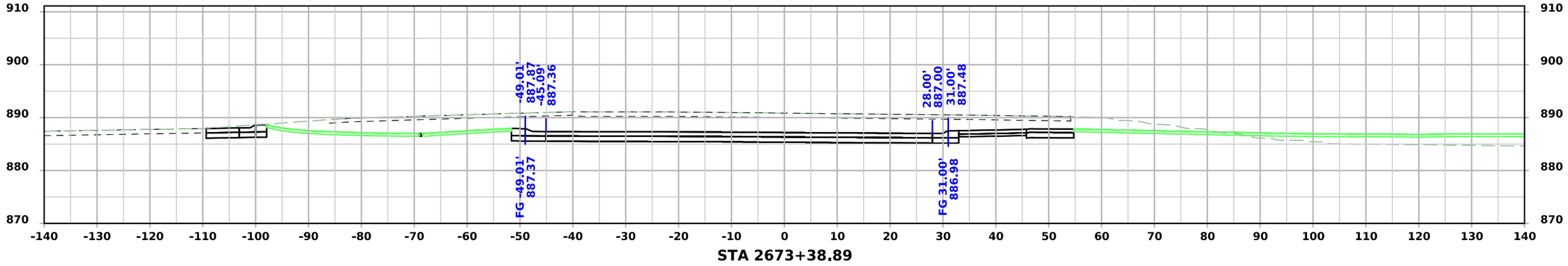
STA 2673+00.00

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER W.313

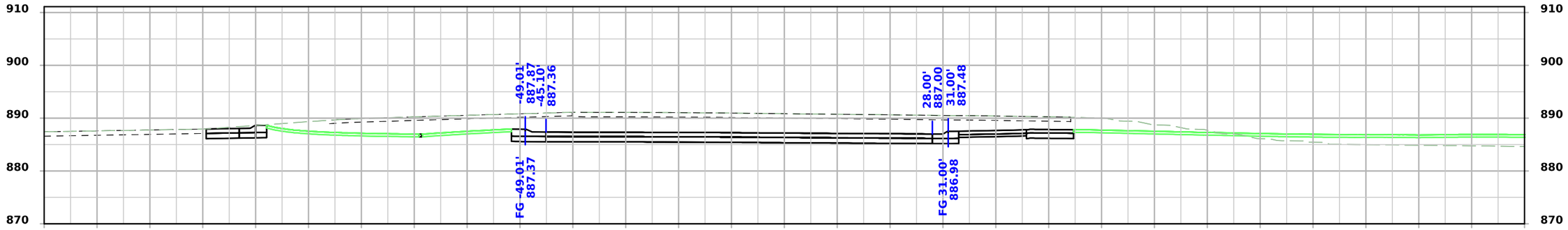
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V2

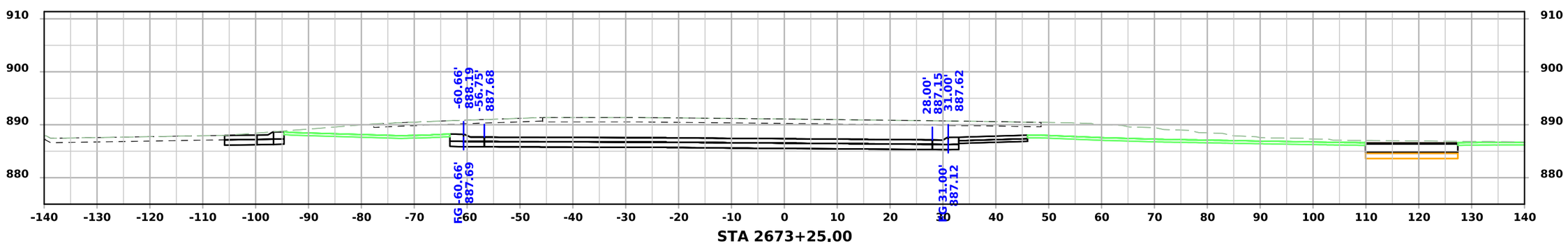
US 6 / Hickman Road EB - Final Condition



STA 2673+38.89



STA 2673+38.89



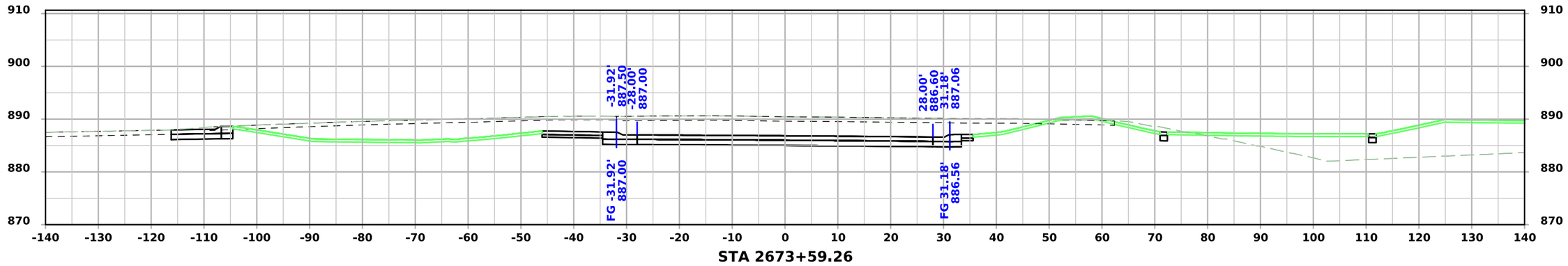
STA 2673+25.00

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER W.314

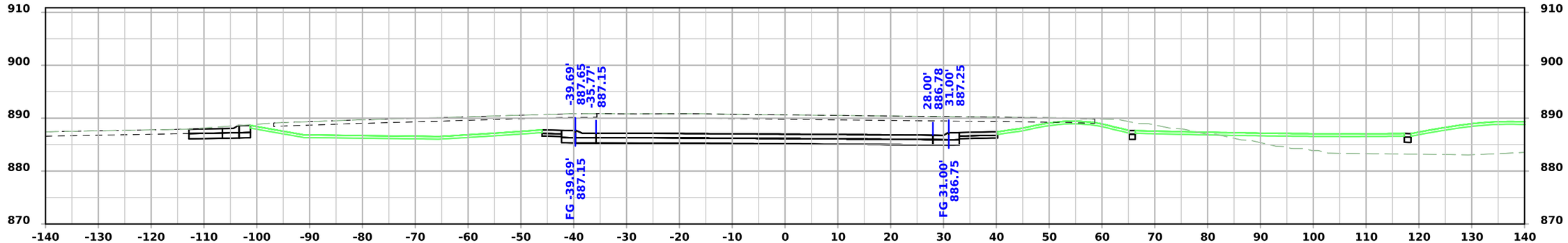
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V2

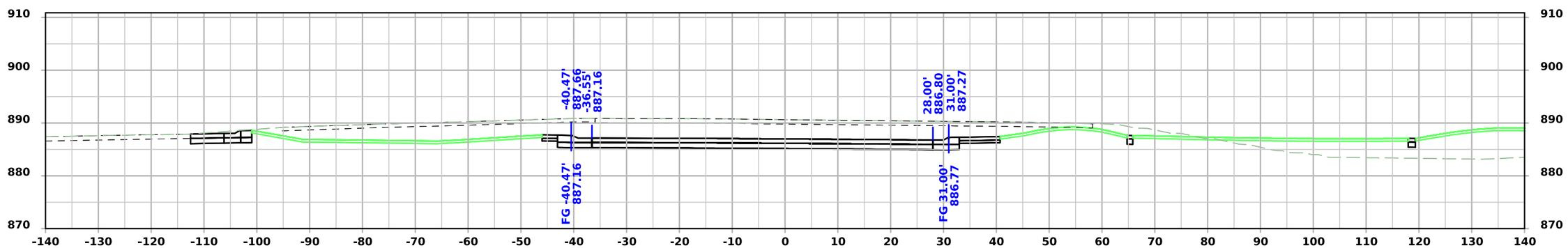
US 6 / Hickman Road EB - Final Condition



STA 2673+59.26



STA 2673+50.00



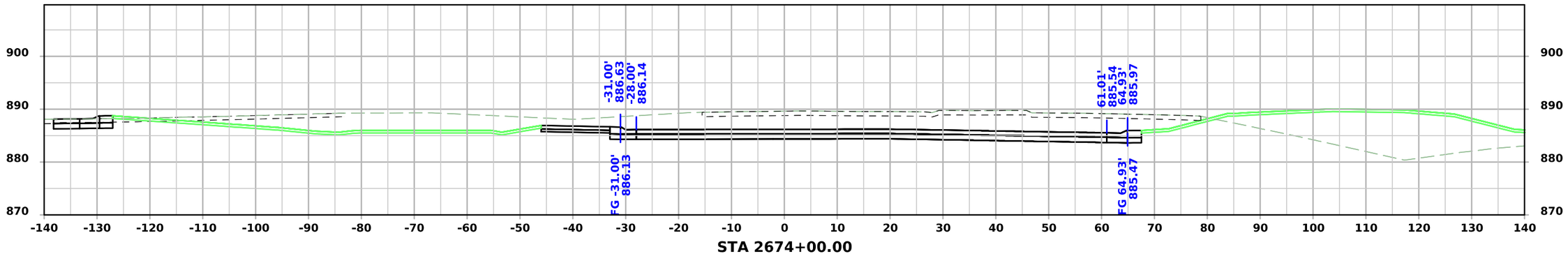
STA 2673+49.07

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER W.315

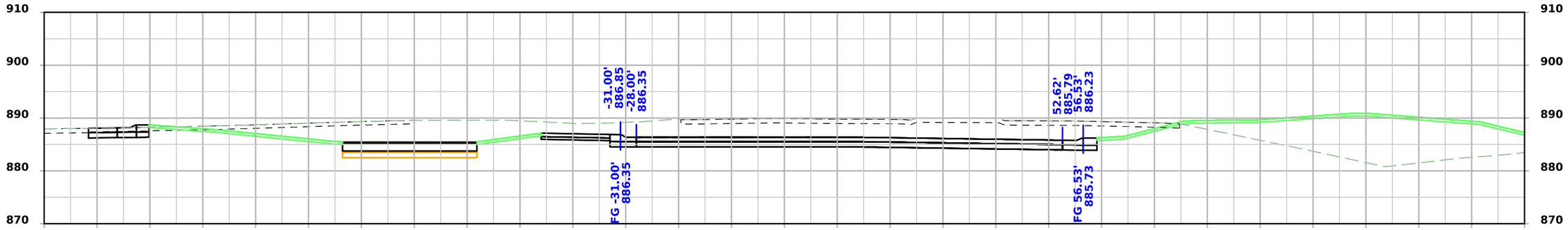
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V2

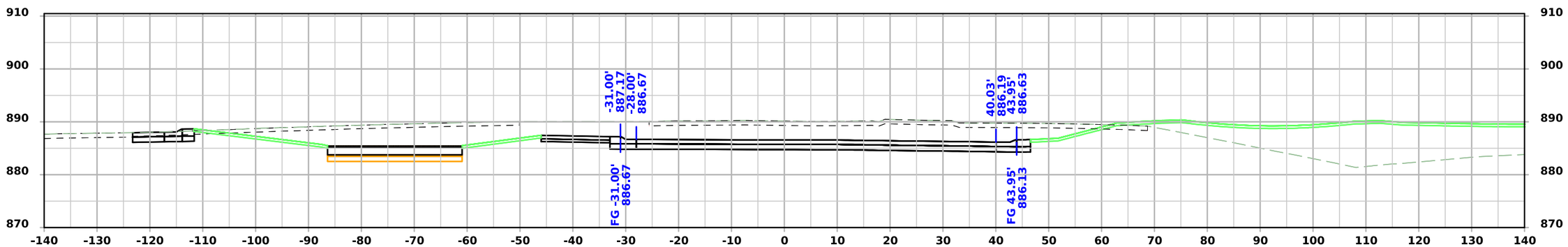
US 6 / Hickman Road EB - Final Condition



STA 2674+00.00



STA 2673+90.00



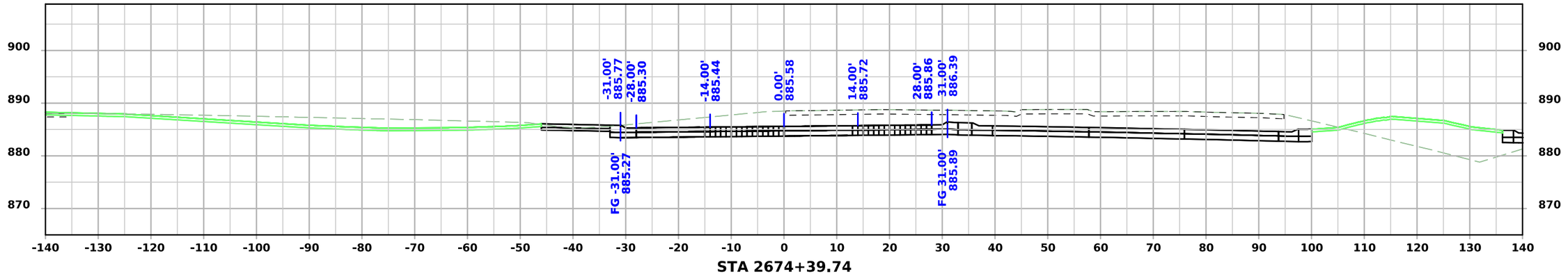
STA 2673+75.00

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER W.316

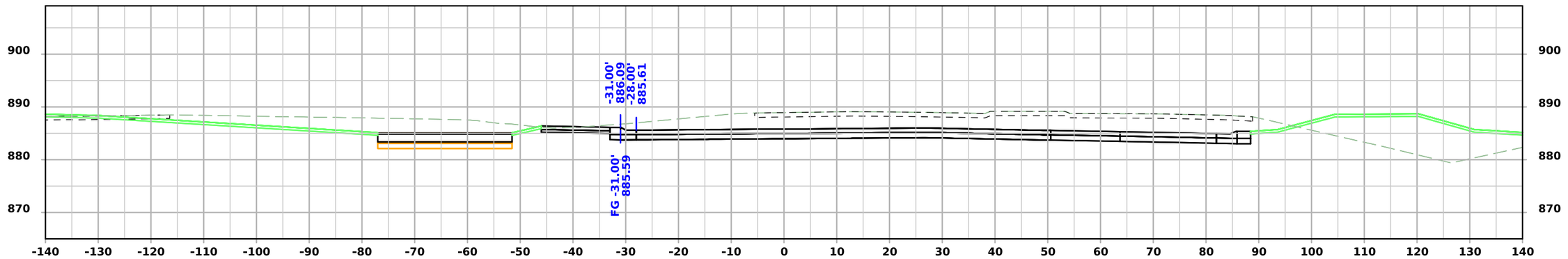
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V2

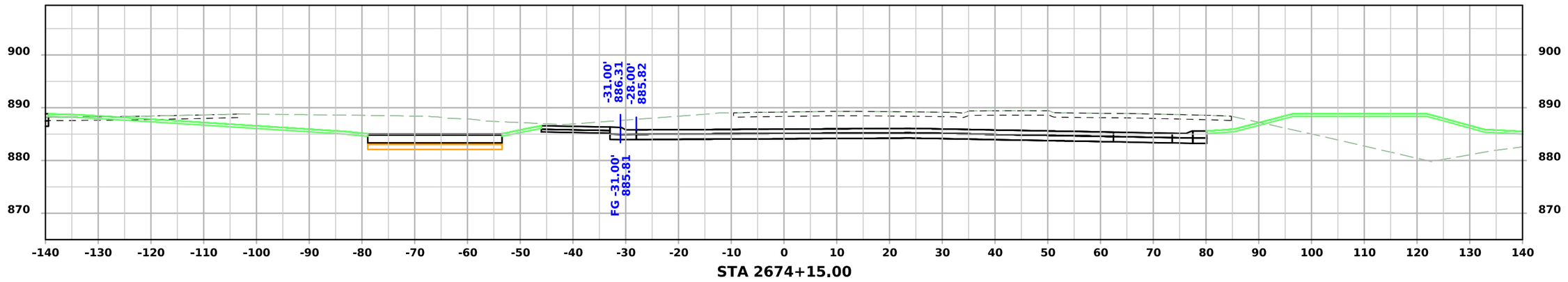
US 6 / Hickman Road EB - Final Condition



STA 2674+39.74



STA 2674+25.00



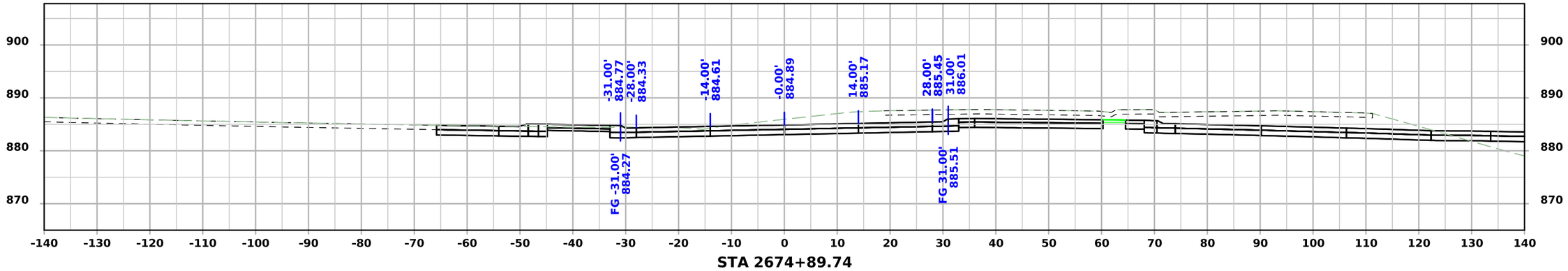
STA 2674+15.00

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER W.317

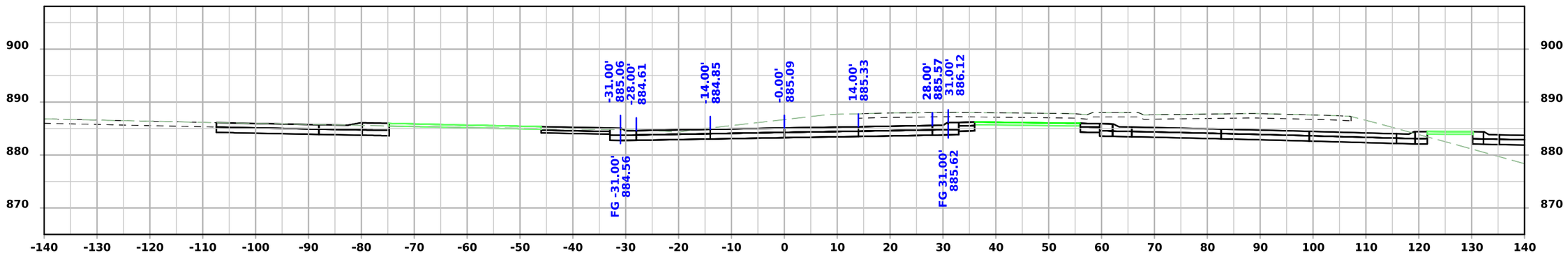
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V2

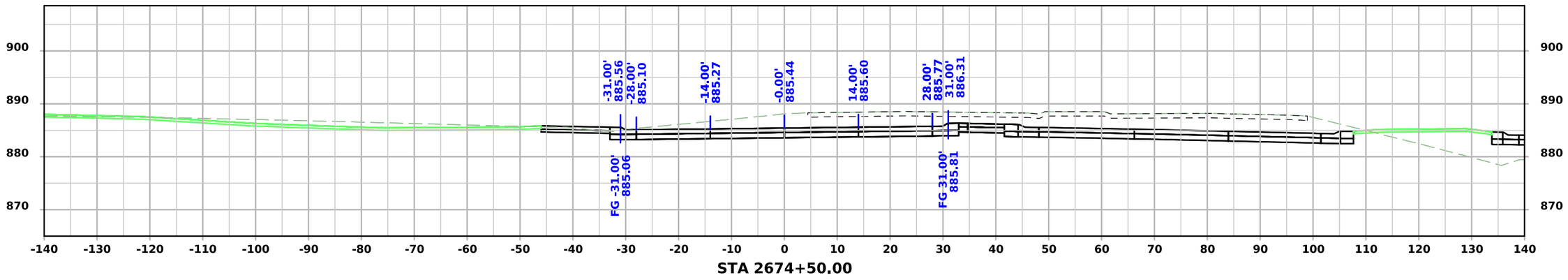
US 6 / Hickman Road EB - Final Condition



STA 2674+89.74



STA 2674+75.00



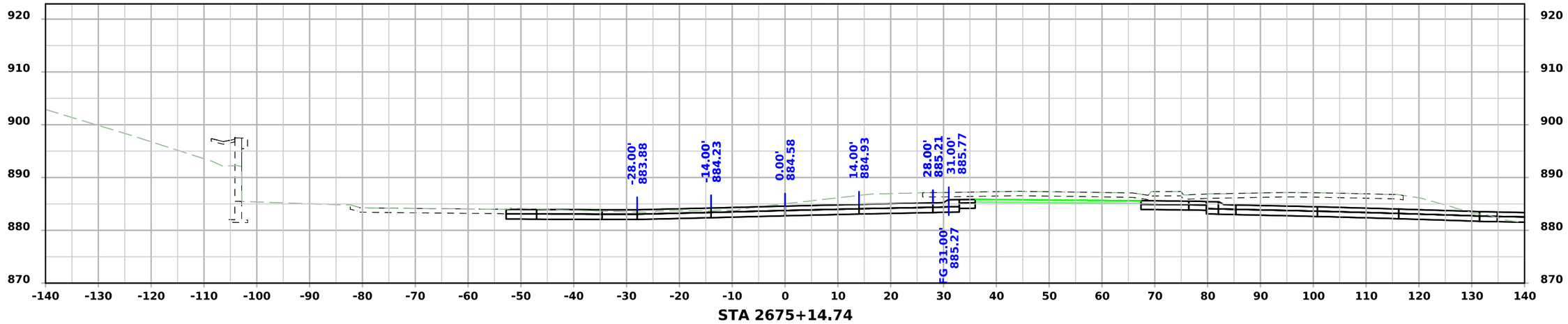
STA 2674+50.00

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER W.318

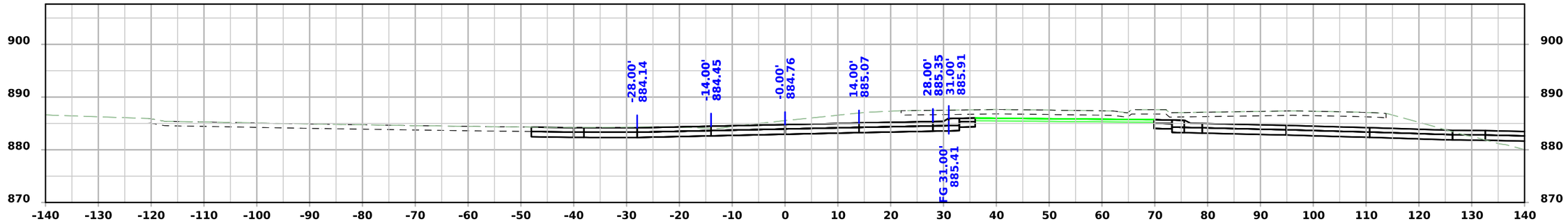
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V2

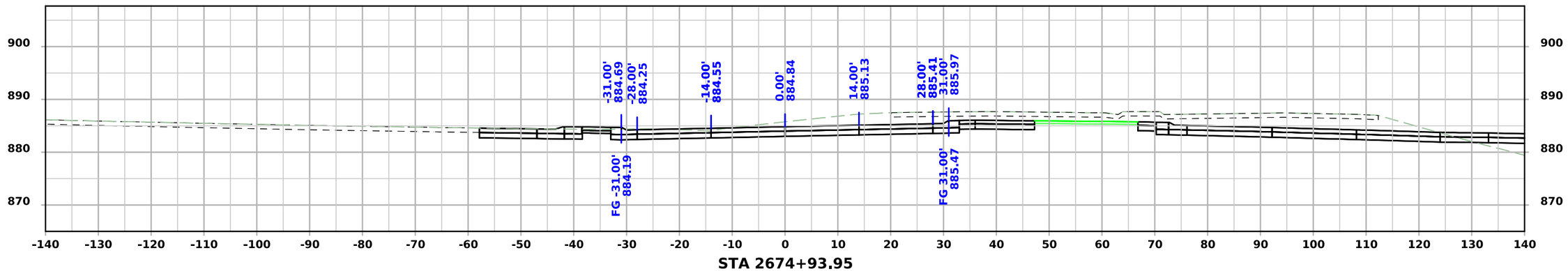
US 6 / Hickman Road EB - Final Condition



STA 2675+14.74



STA 2675+00.00



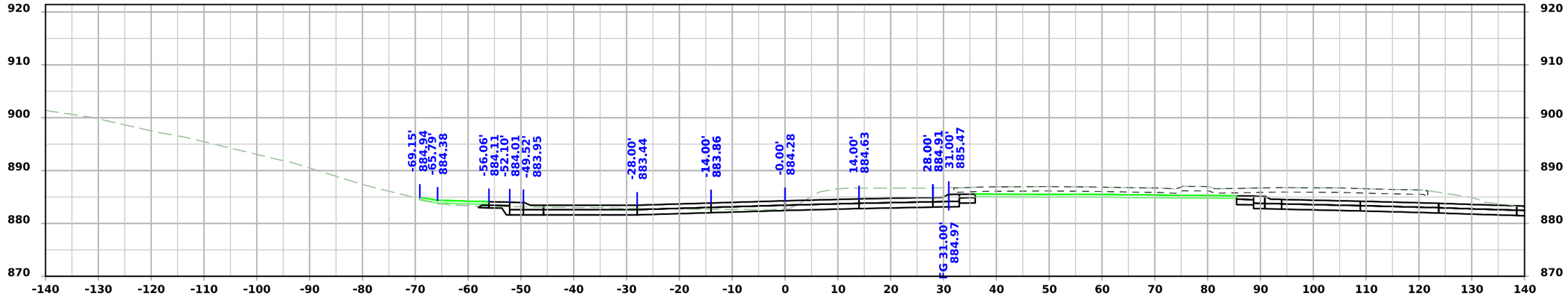
STA 2674+93.95

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER W.319

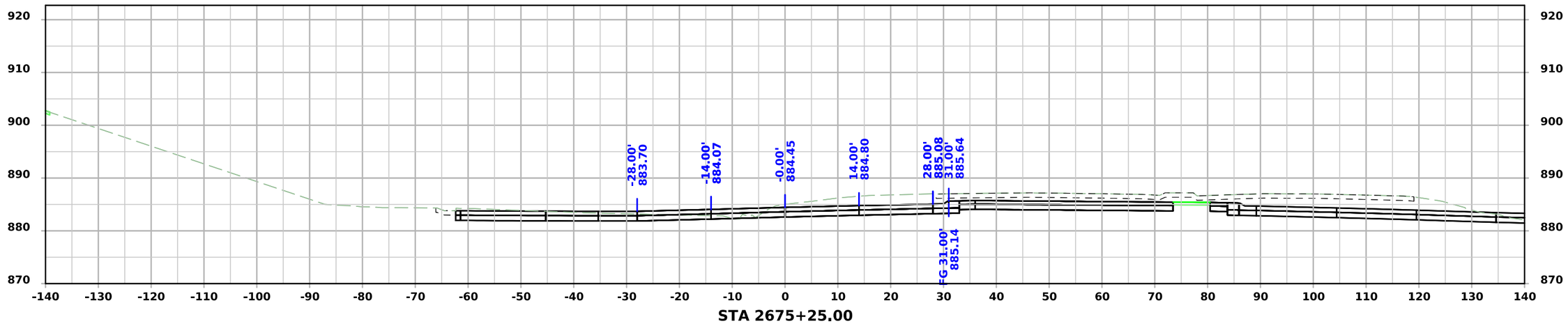
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V2

US 6 / Hickman Road EB - Final Condition



STA 2675+39.74



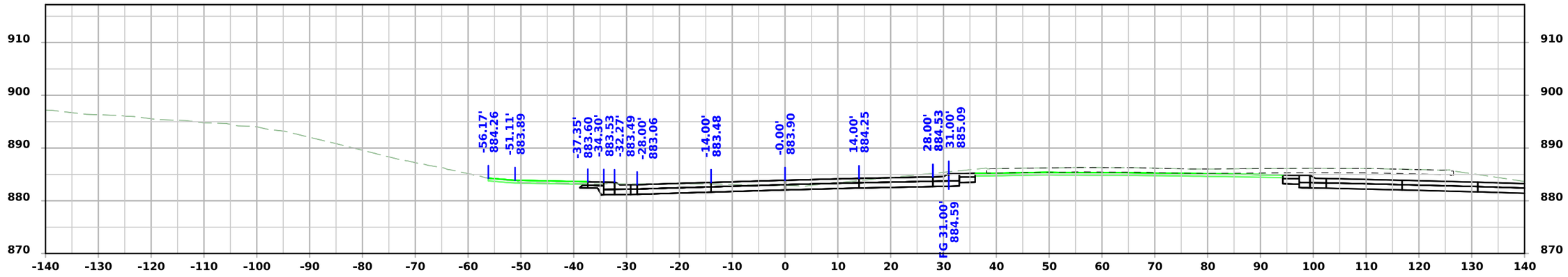
STA 2675+25.00

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER W.320

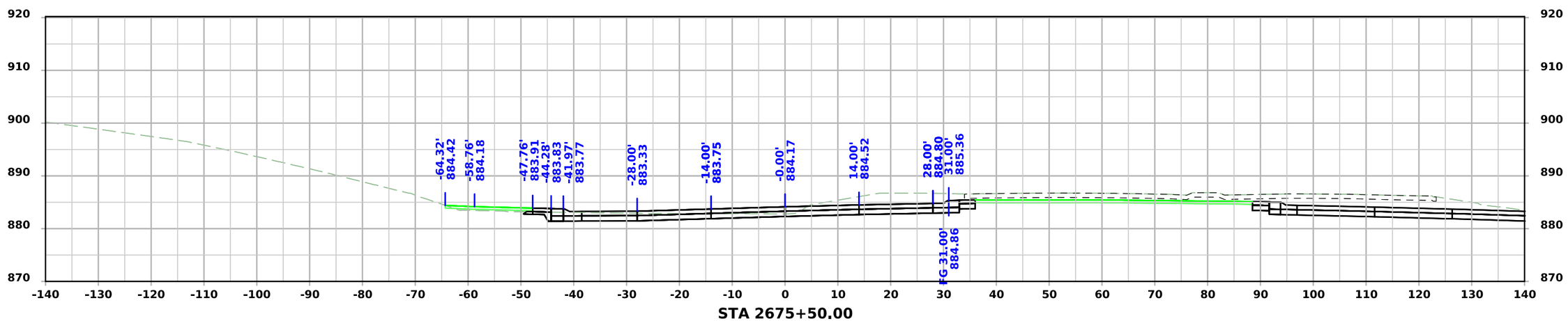
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V2

US 6 / Hickman Road EB - Final Condition



STA 2675+75.00



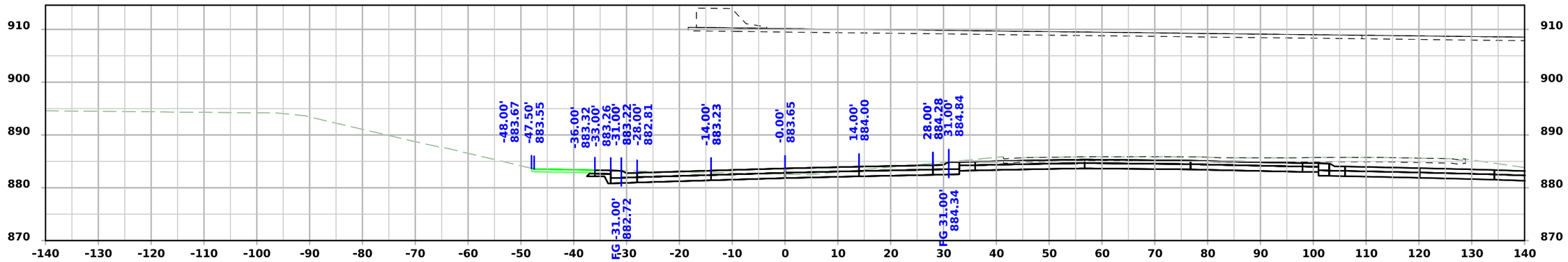
STA 2675+50.00

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER W.321

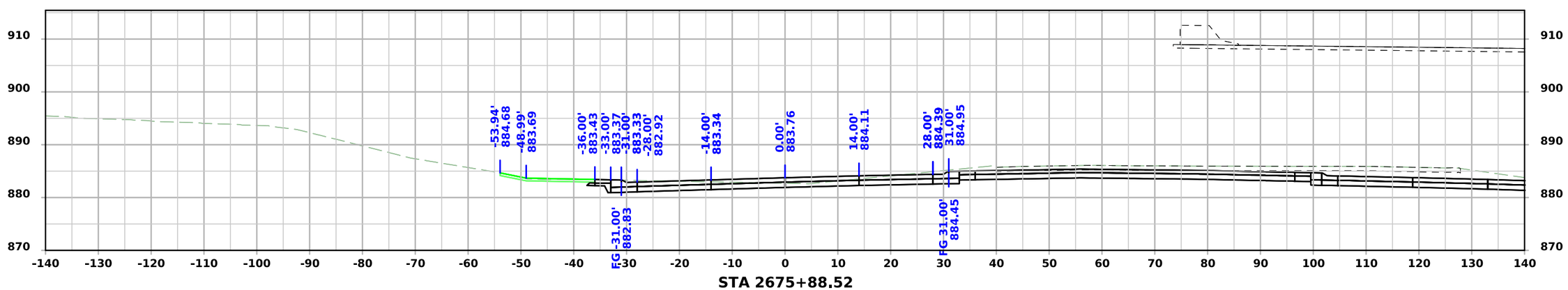
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V2

US 6 / Hickman Road EB - Final Condition



STA 2676+00.00



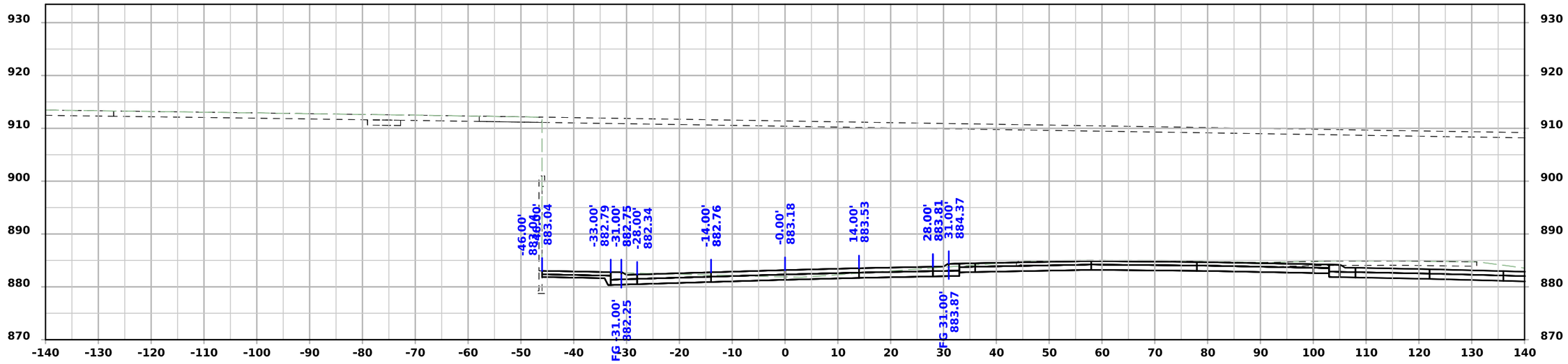
STA 2675+88.52

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER W.322

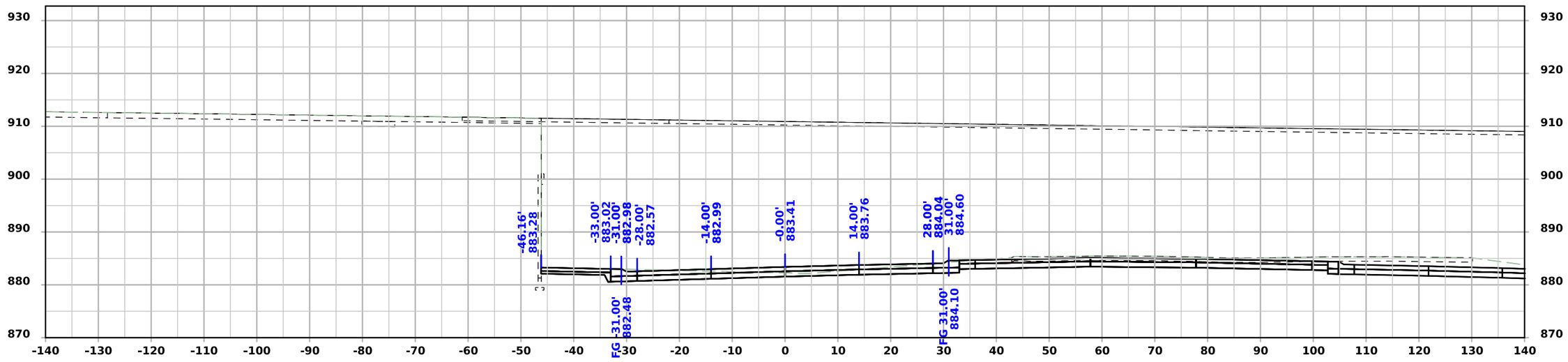
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V2

US 6 / Hickman Road EB - Final Condition



STA 2676+50.00



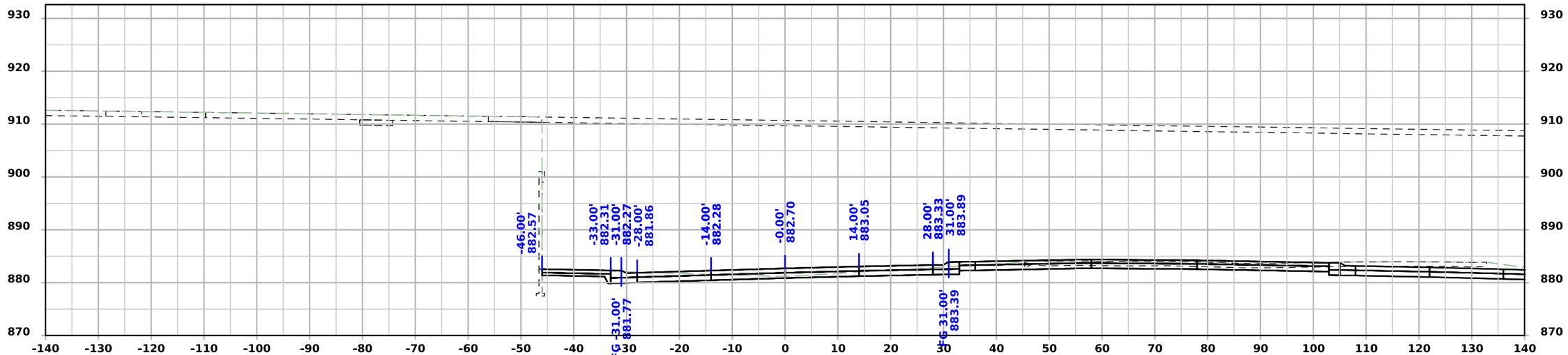
STA 2676+25.00

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER W.323

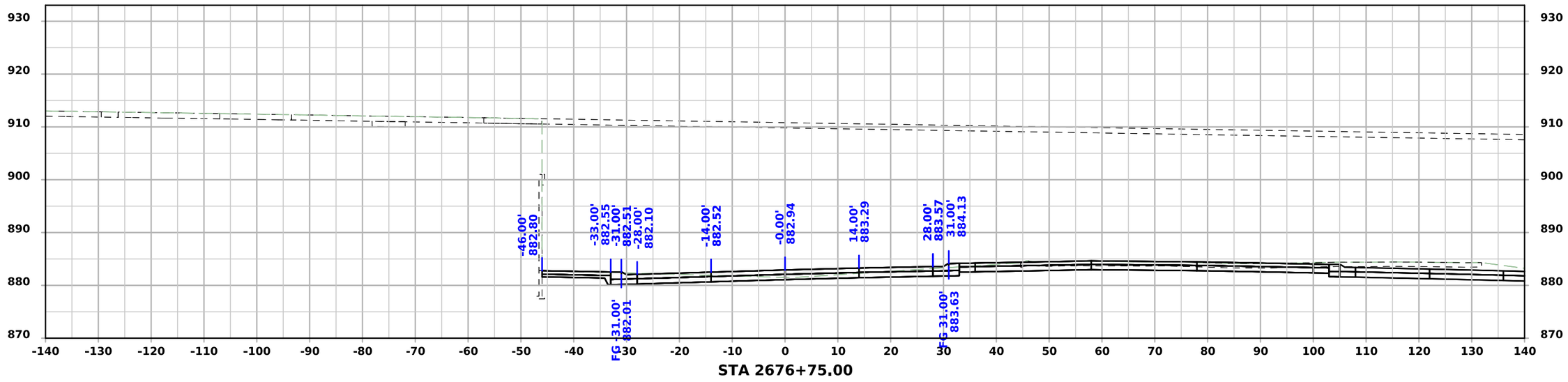
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V2

US 6 / Hickman Road EB - Final Condition



STA 2677+00.00



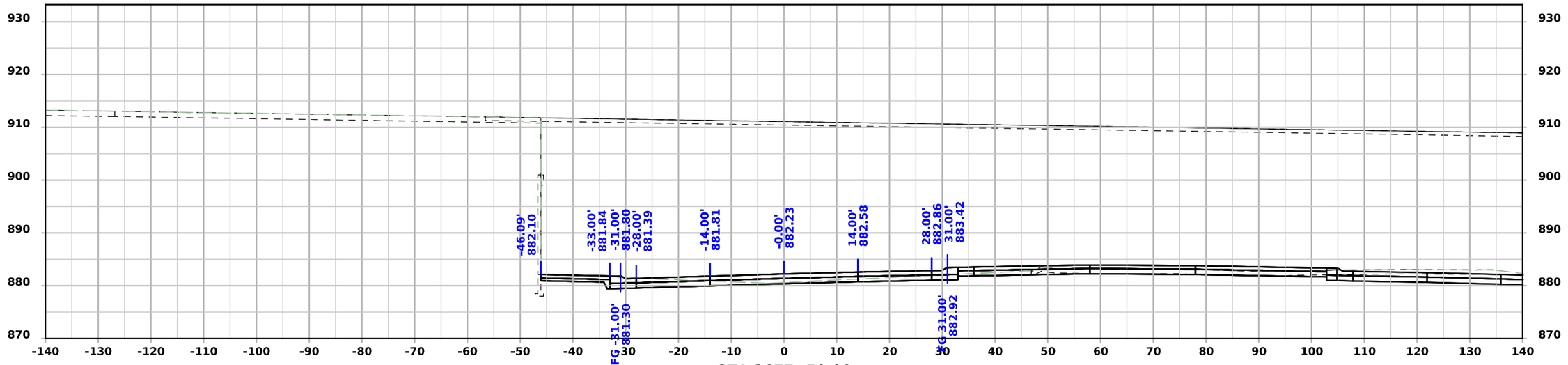
STA 2676+75.00

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER W.324

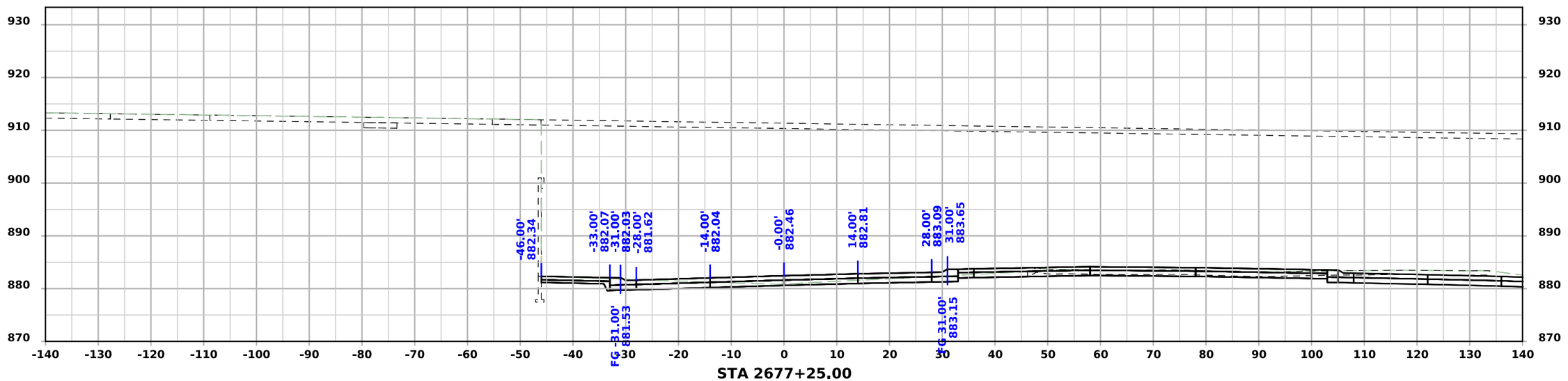
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V2

US 6 / Hickman Road EB - Final Condition



STA 2677+50.00



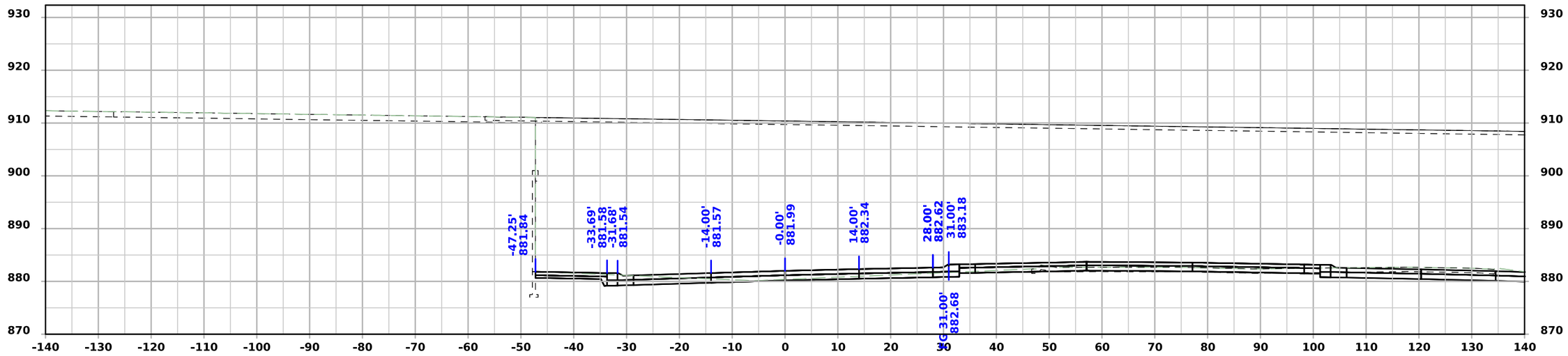
STA 2677+25.00

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER W.325

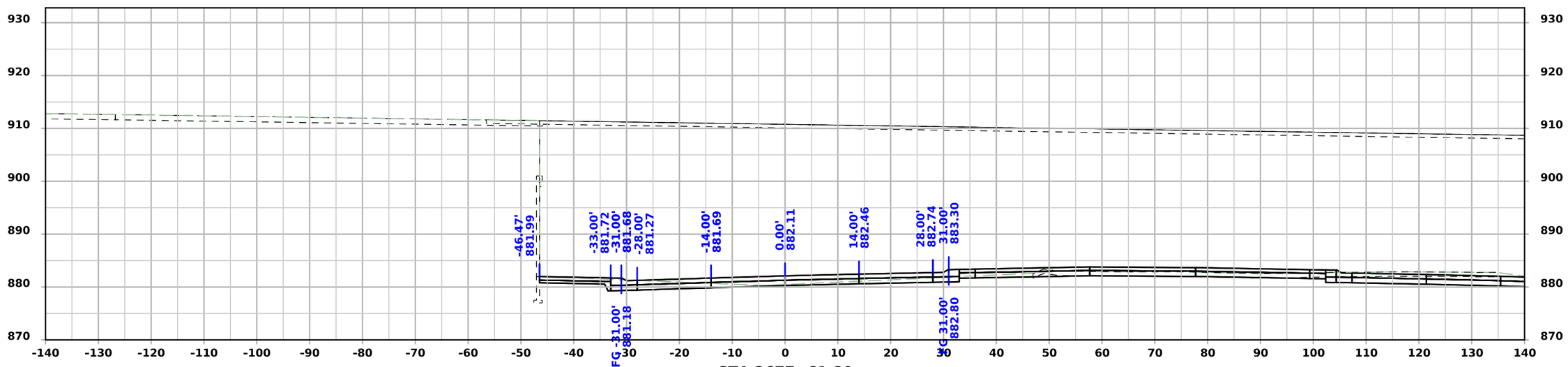
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V2

US 6 / Hickman Road EB - Final Condition



STA 2677+75.00



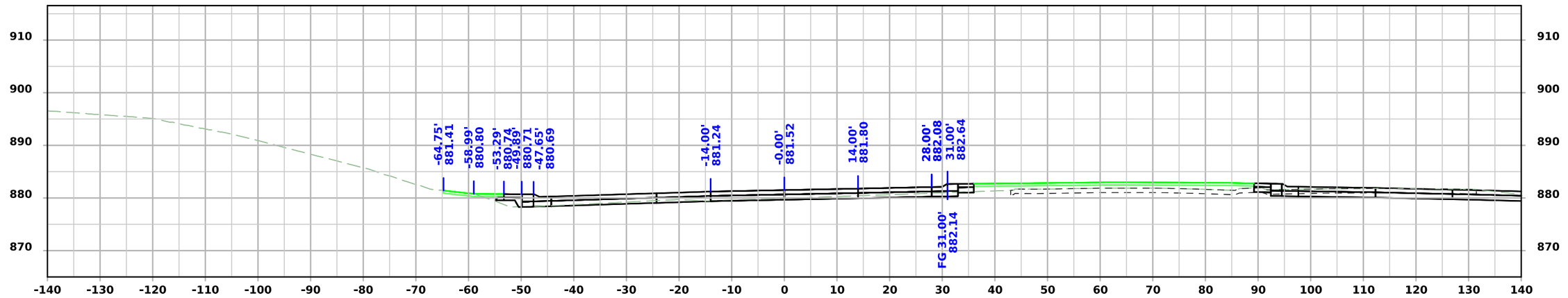
STA 2677+61.80

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER W.326

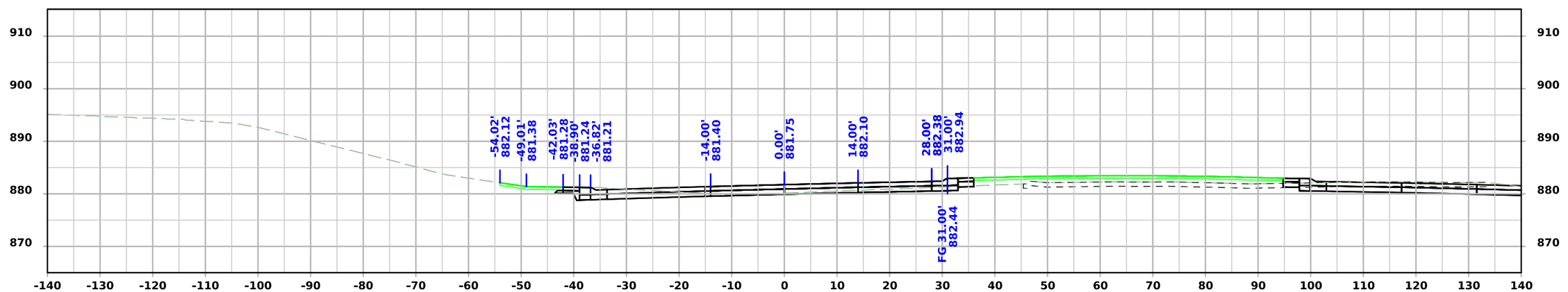
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V2

US 6 / Hickman Road EB - Final Condition



STA 2678+25.00



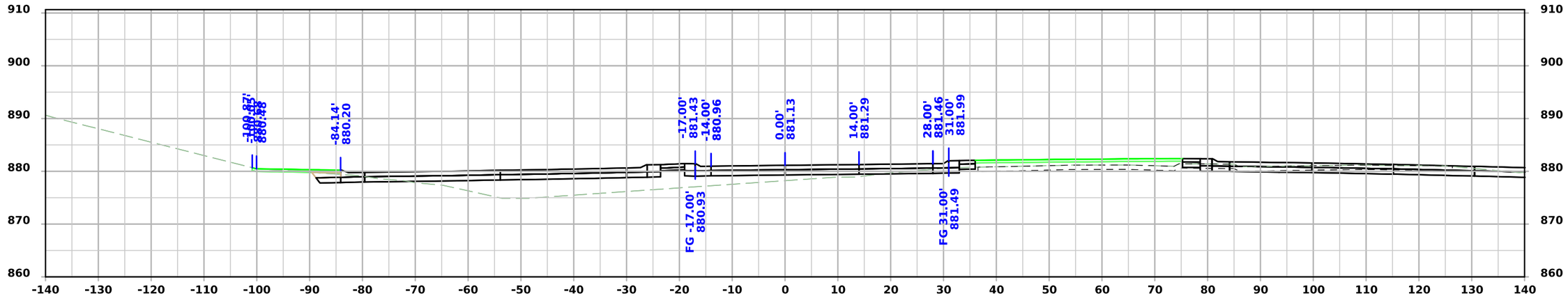
STA 2678+00.00

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER W.327

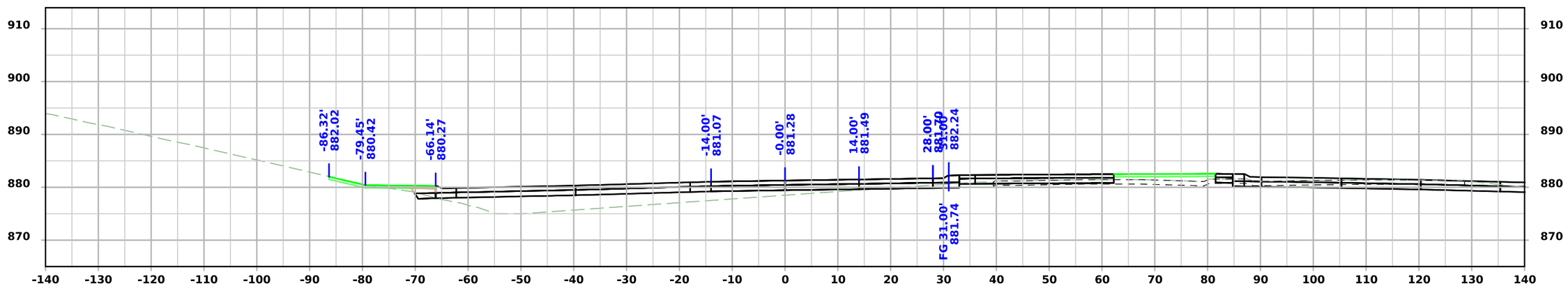
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V2

US 6 / Hickman Road EB - Final Condition



STA 2678+65.95



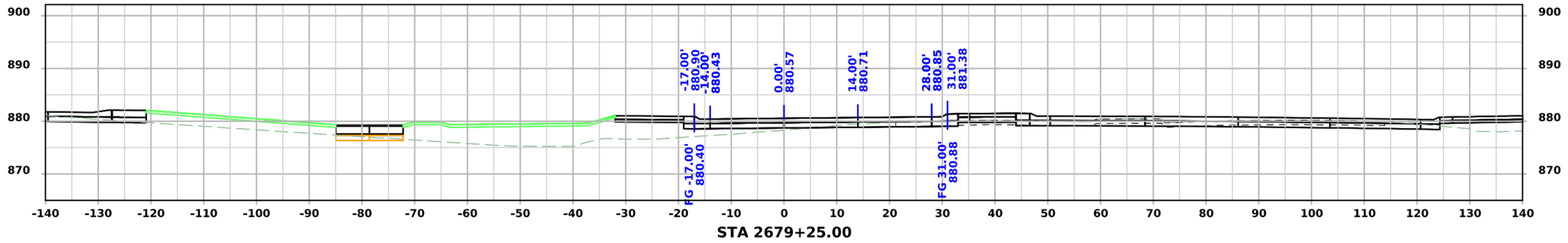
STA 2678+50.00

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER W.328

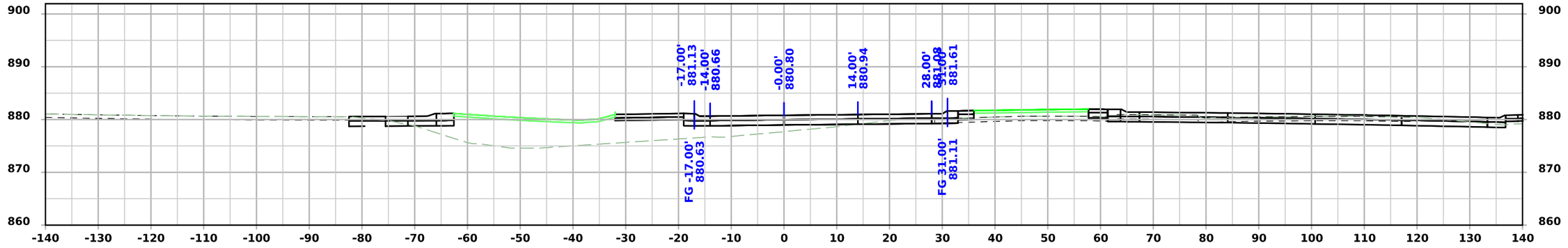
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V2

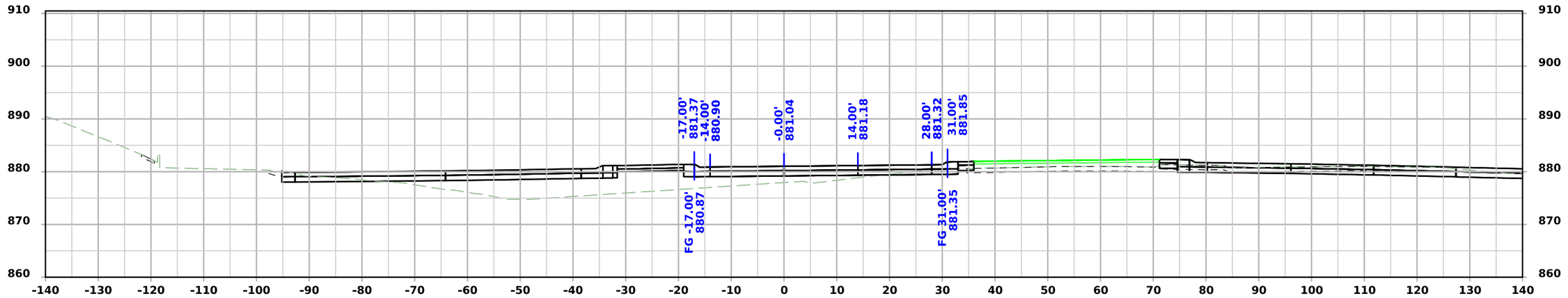
US 6 / Hickman Road EB - Final Condition



STA 2679+25.00



STA 2679+00.00



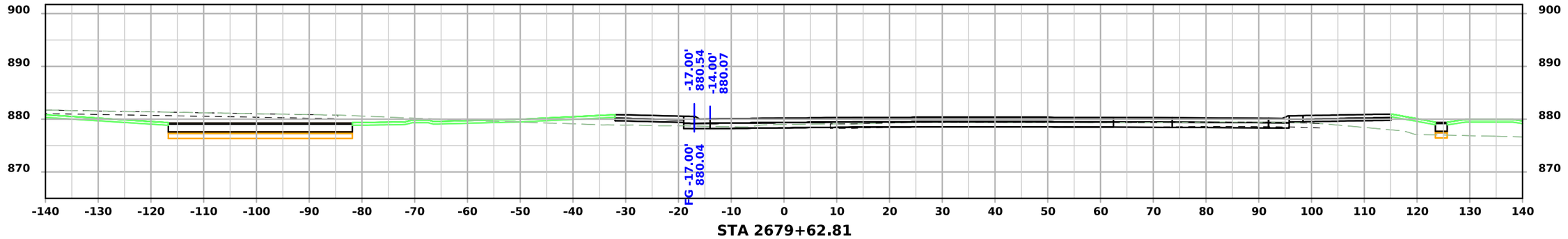
STA 2678+75.00

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER W.329

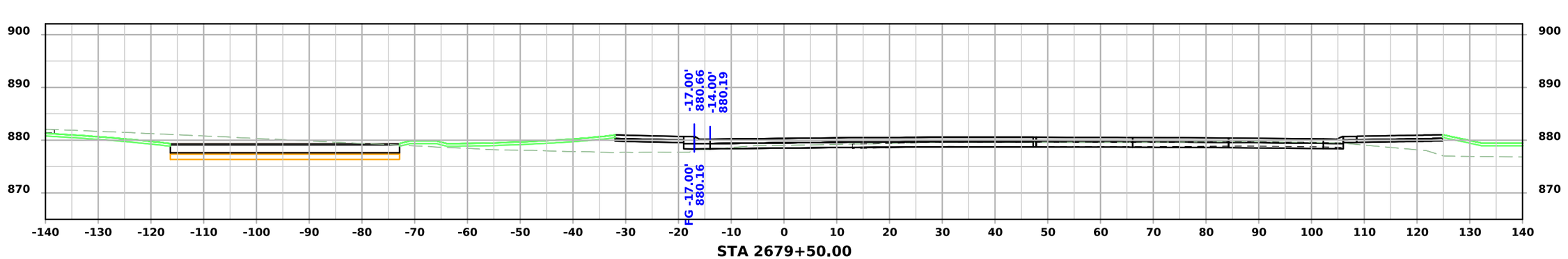
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V2

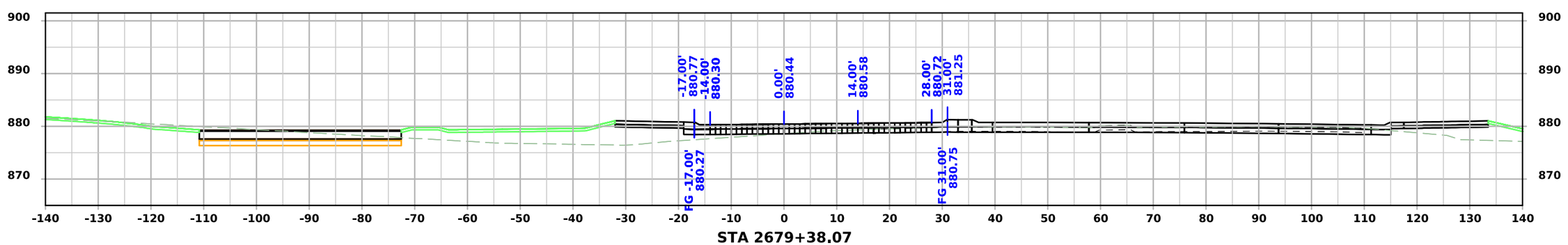
US 6 / Hickman Road EB - Final Condition



STA 2679+62.81



STA 2679+50.00



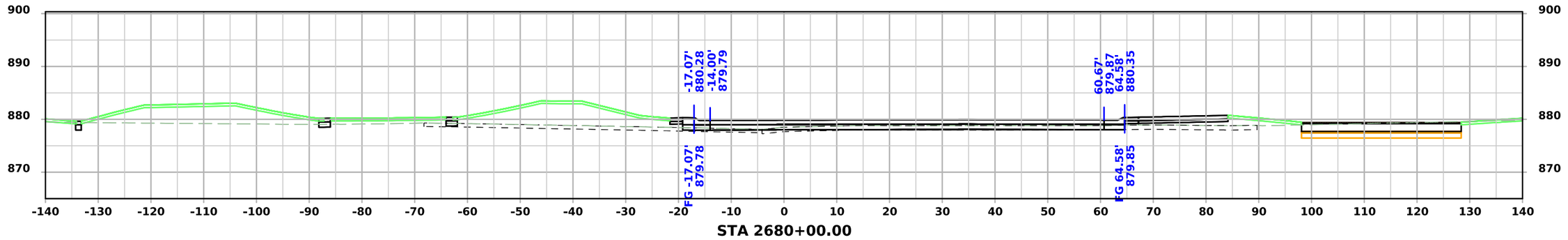
STA 2679+38.07

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER W.330

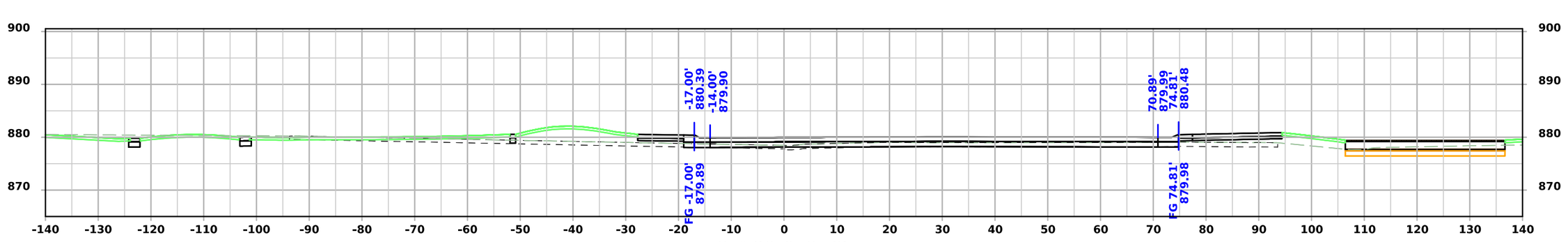
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V2

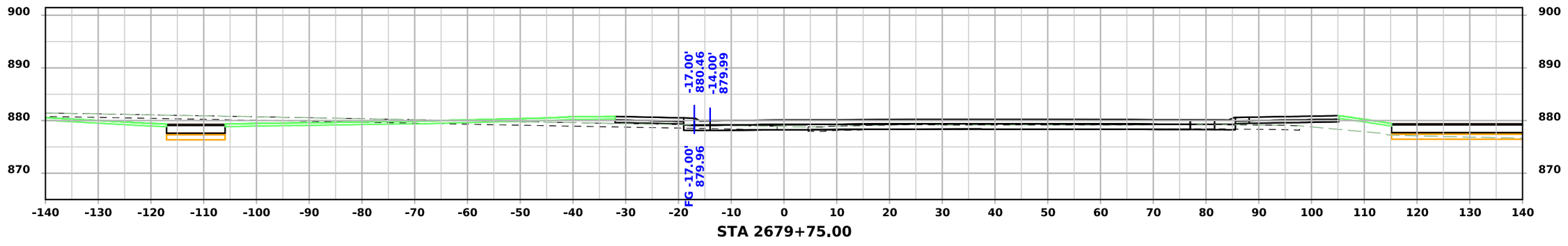
US 6 / Hickman Road EB - Final Condition



STA 2680+00.00



STA 2679+87.81



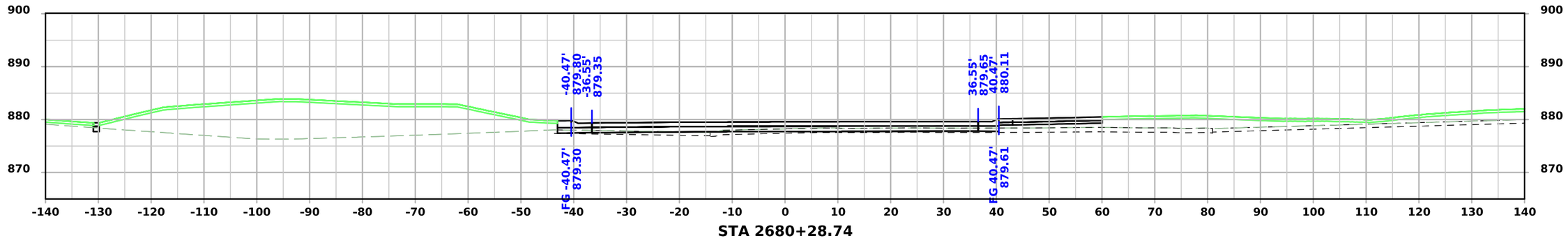
STA 2679+75.00

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER W.331	

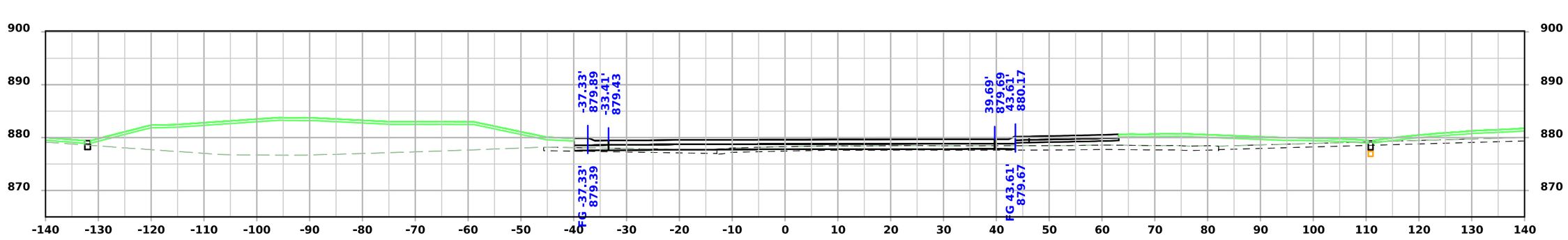
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V2

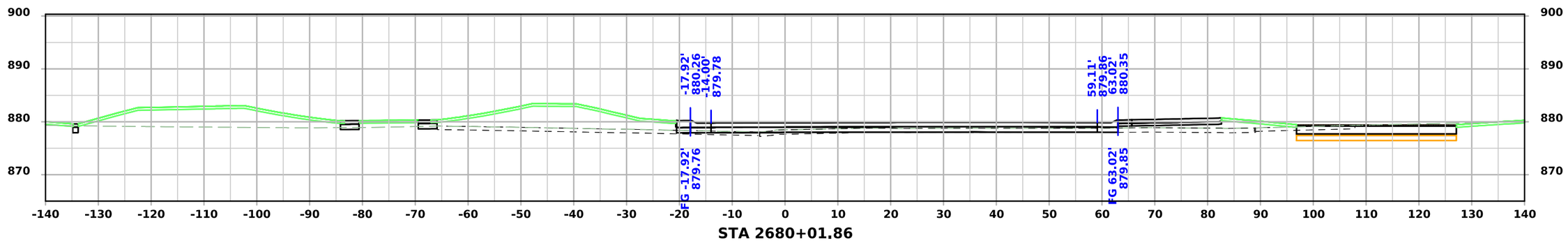
US 6 / Hickman Road EB - Final Condition



STA 2680+28.74



STA 2680+25.00



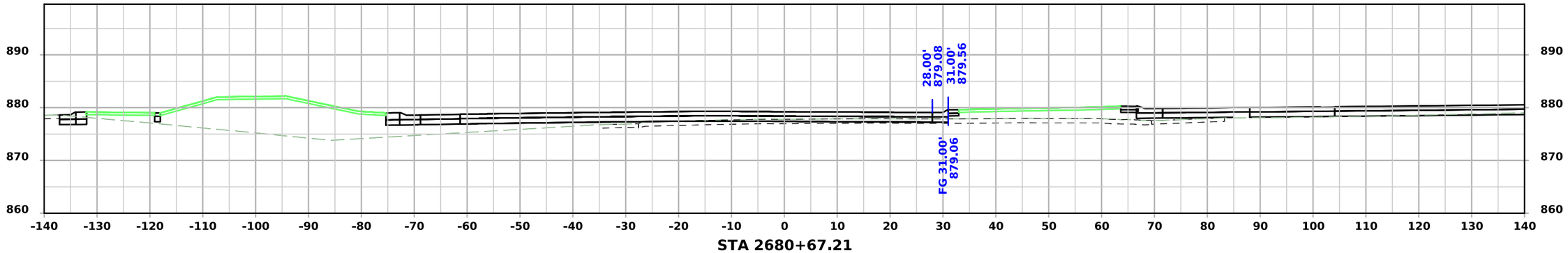
STA 2680+01.86

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER W.332	

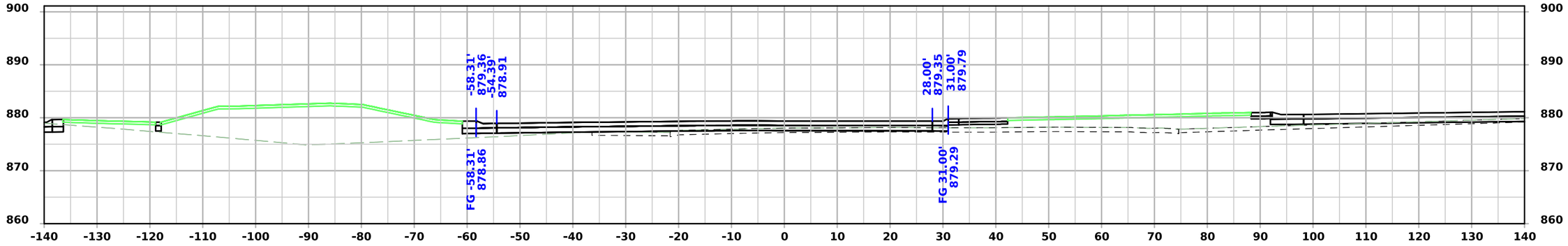
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V2

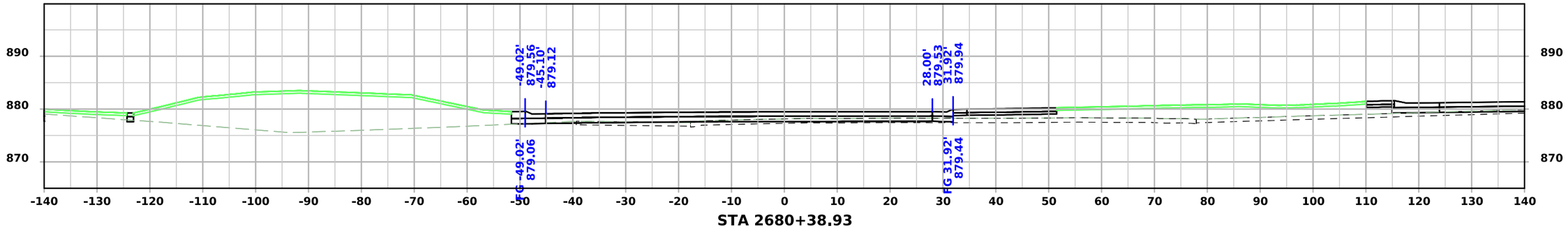
US 6 / Hickman Road EB - Final Condition



STA 2680+67.21



STA 2680+50.00

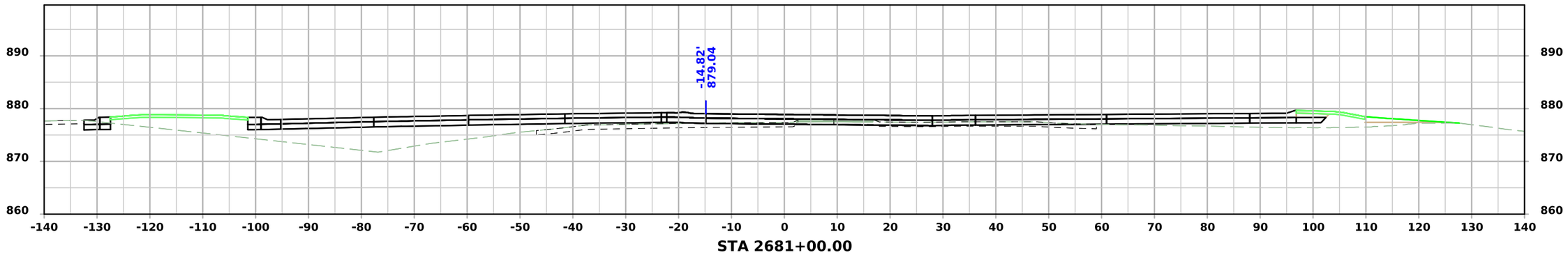


STA 2680+38.93

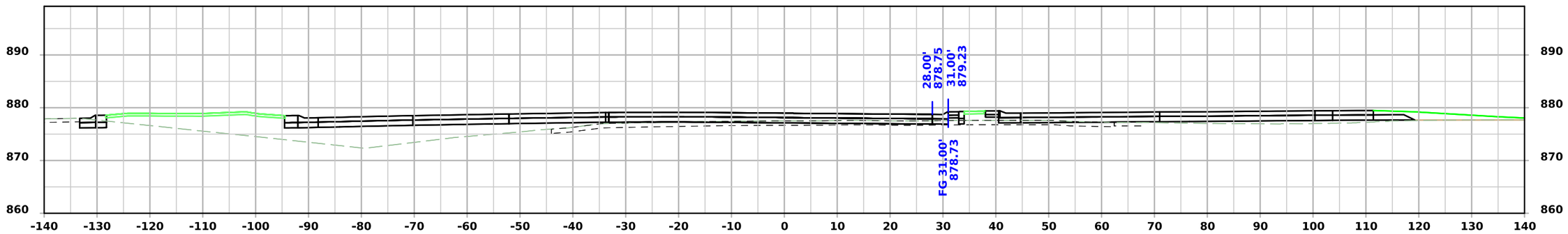
FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER W.333

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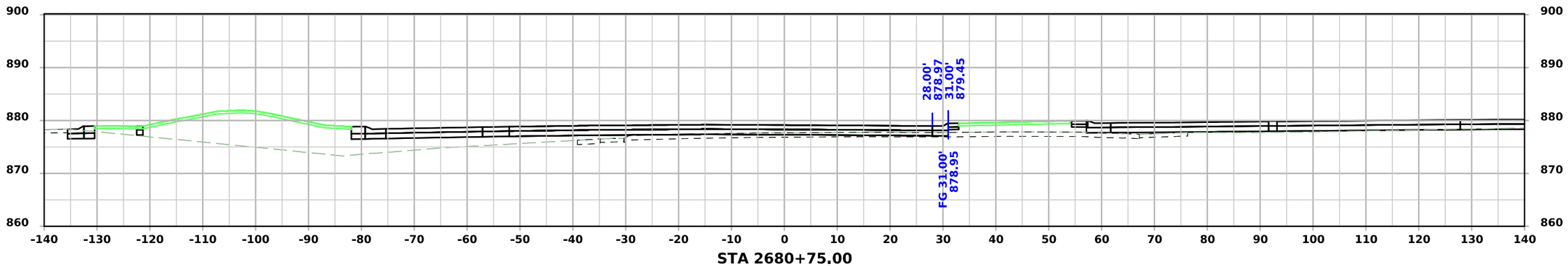
US 6 / Hickman Road EB - Final Condition



STA 2681+00.00



STA 2680+90.80



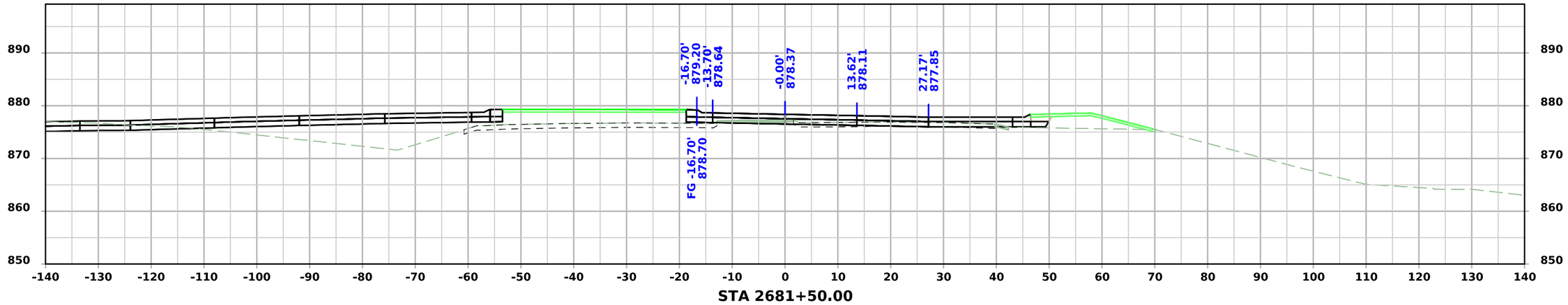
STA 2680+75.00

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER W.334

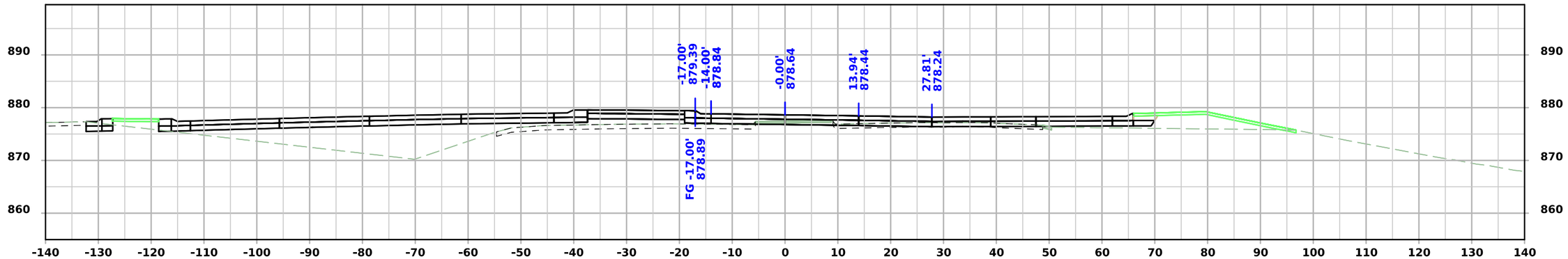
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V2

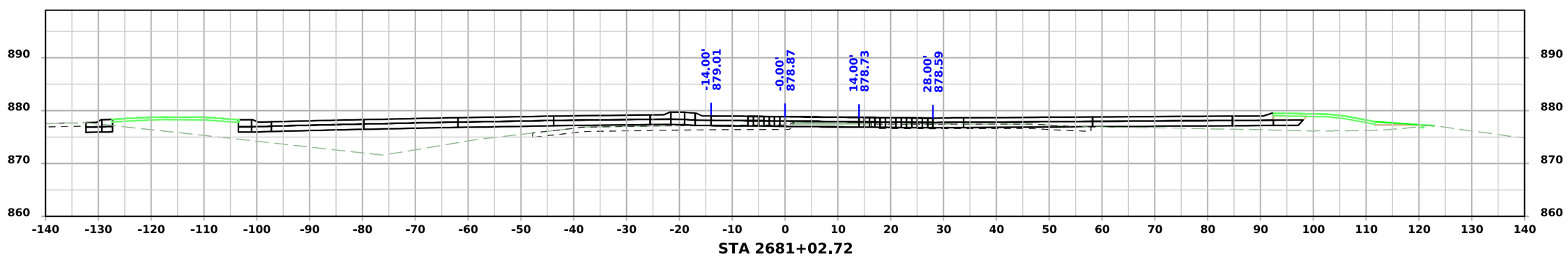
US 6 / Hickman Road EB - Final Condition



STA 2681+50.00



STA 2681+25.00



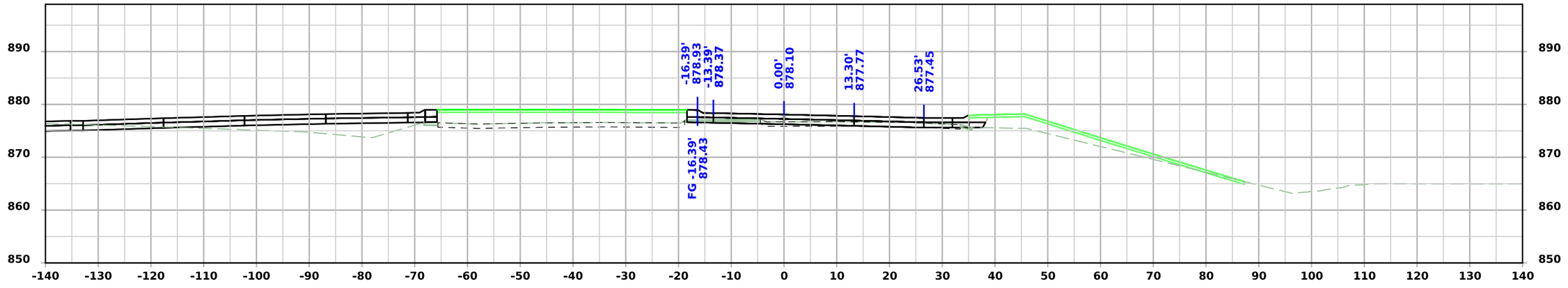
STA 2681+02.72

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER W.335	

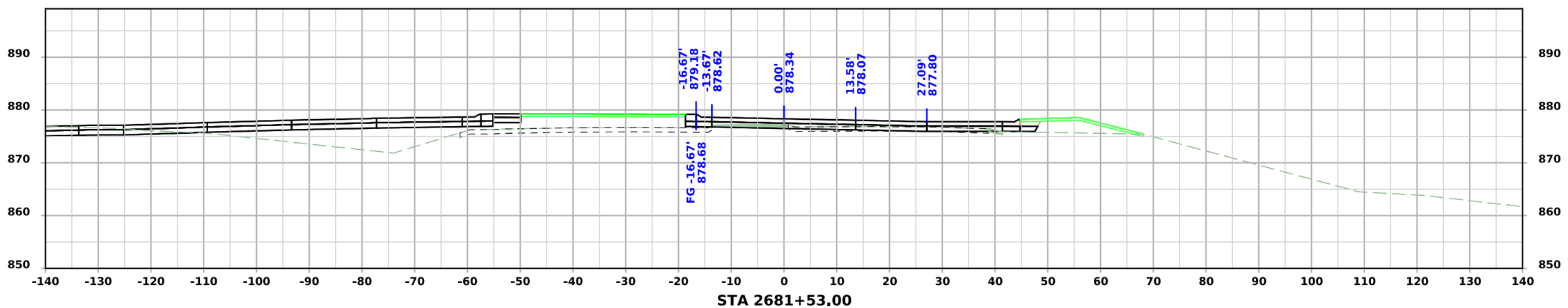
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V2

US 6 / Hickman Road EB - Final Condition



STA 2681+75.00



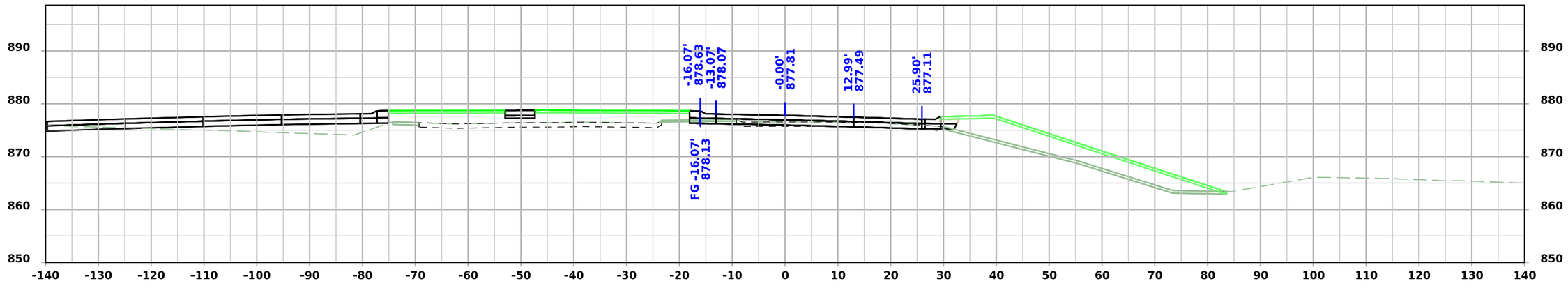
STA 2681+53.00

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER W.336

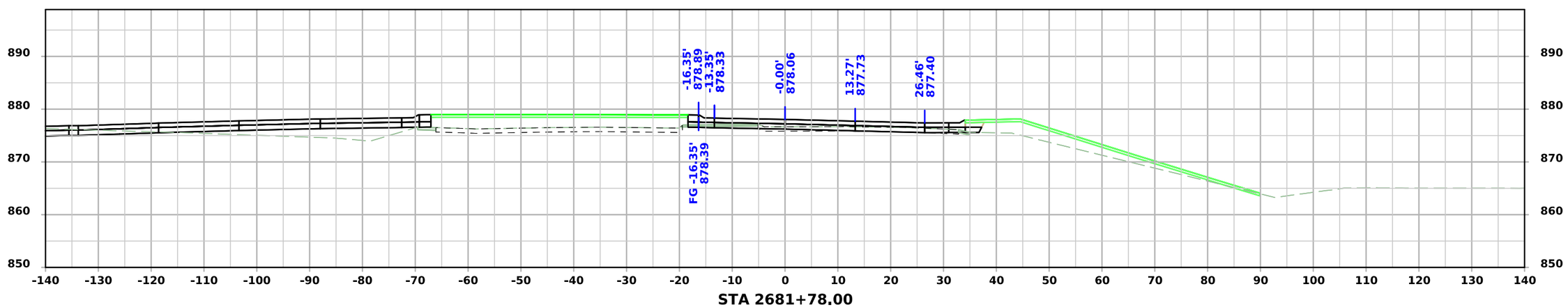
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V2

US 6 / Hickman Road EB - Final Condition



STA 2682+00.00



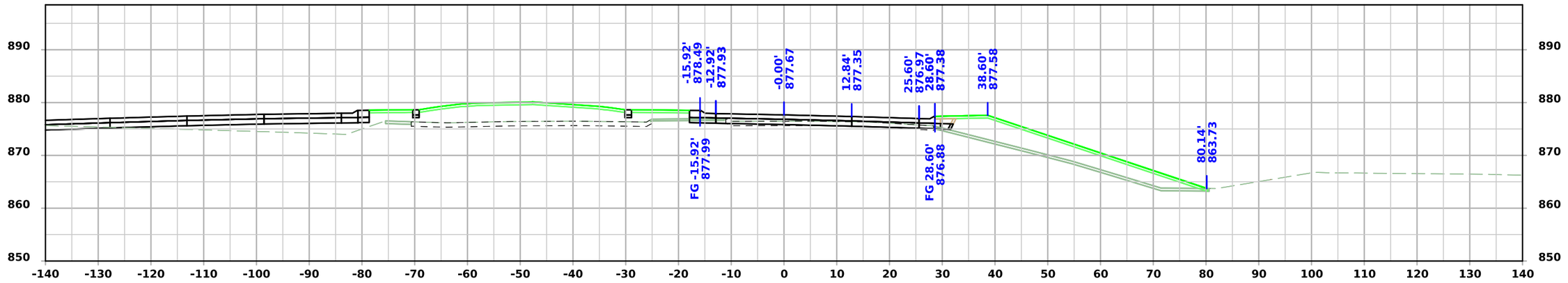
STA 2681+78.00

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER W.337

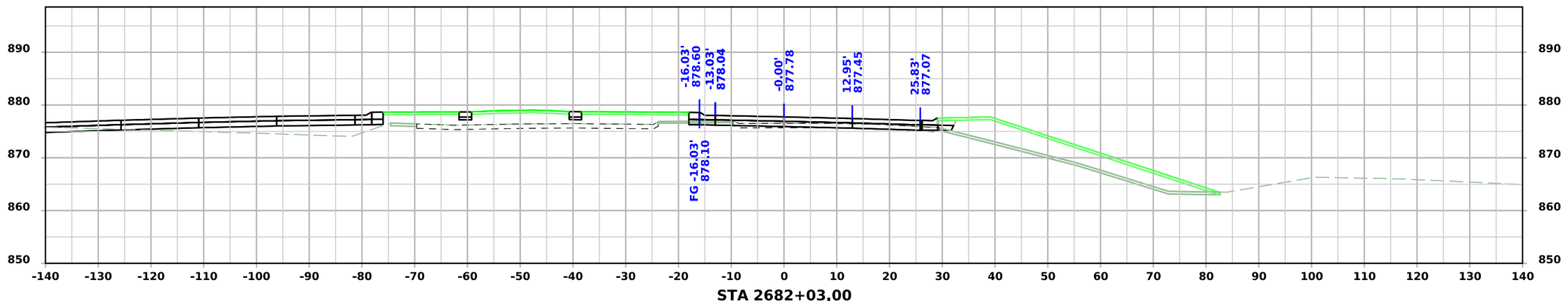
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V2

US 6 / Hickman Road EB - Final Condition



STA 2682+12.10



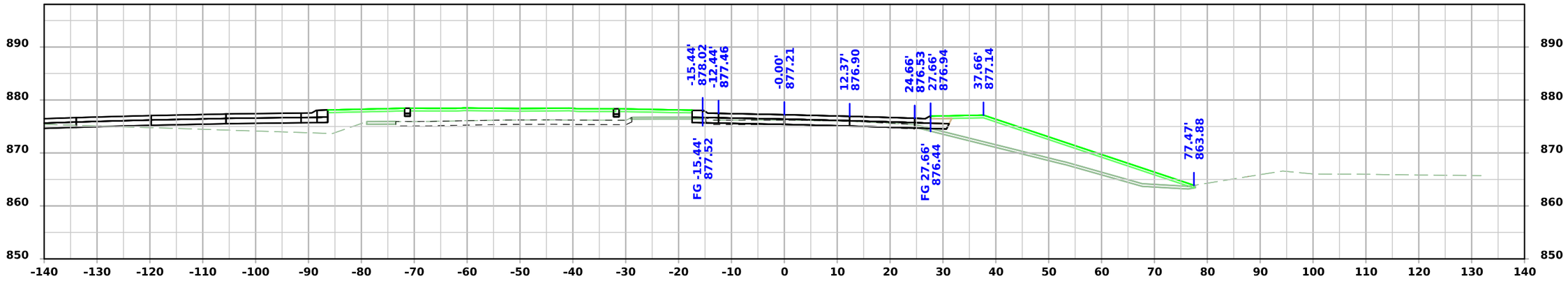
STA 2682+03.00

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER W.338	

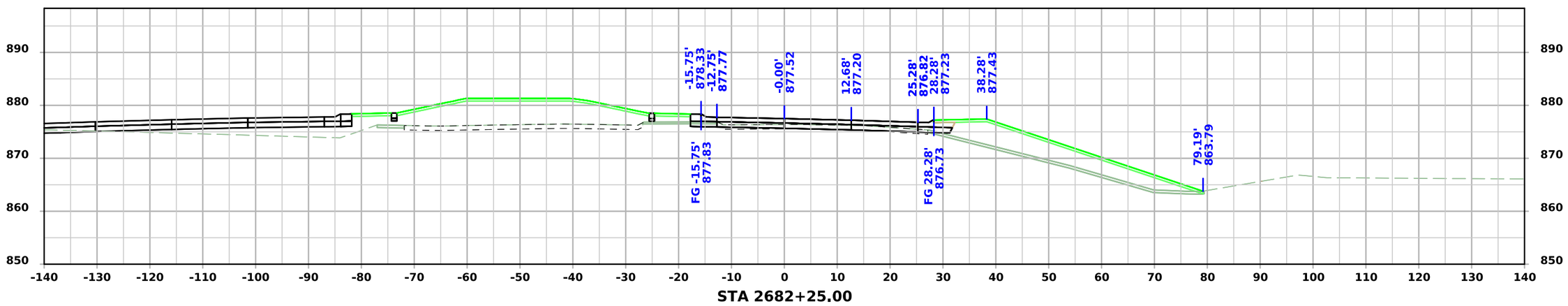
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V2

US 6 / Hickman Road EB - Final Condition



STA 2682+50.00



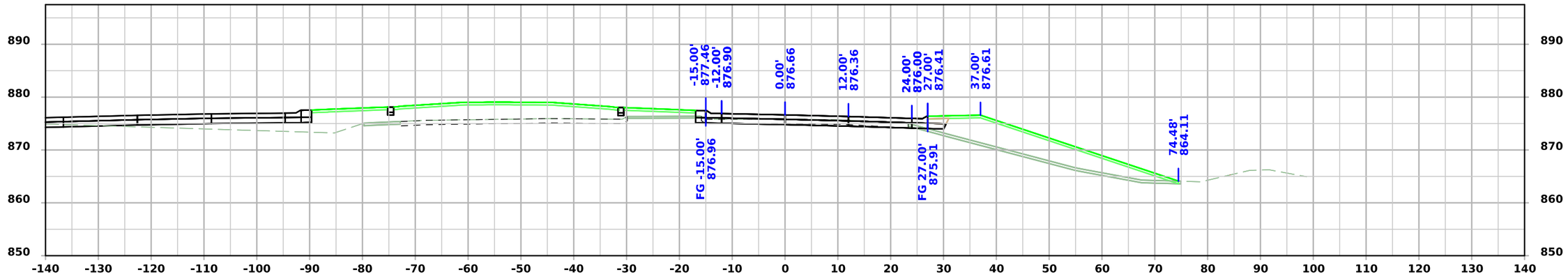
STA 2682+25.00

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER W.339	

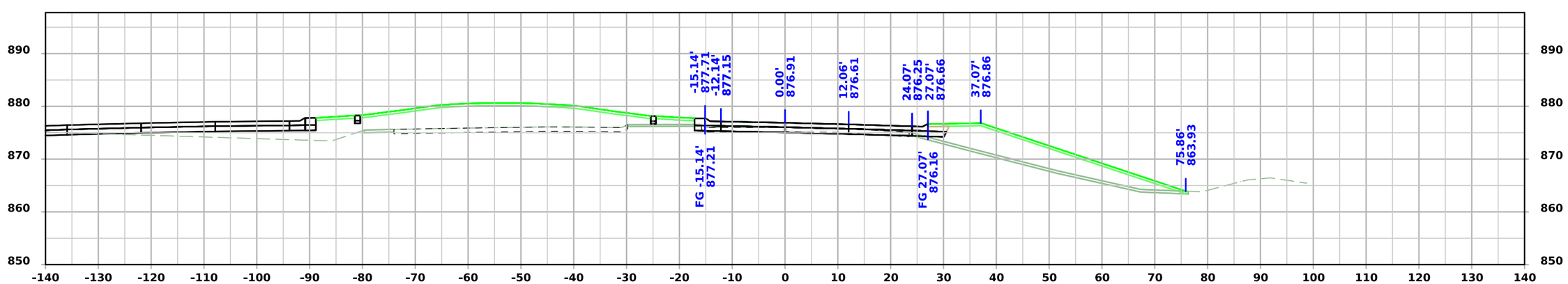
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V2

US 6 / Hickman Road EB - Final Condition



STA 2683+00.00



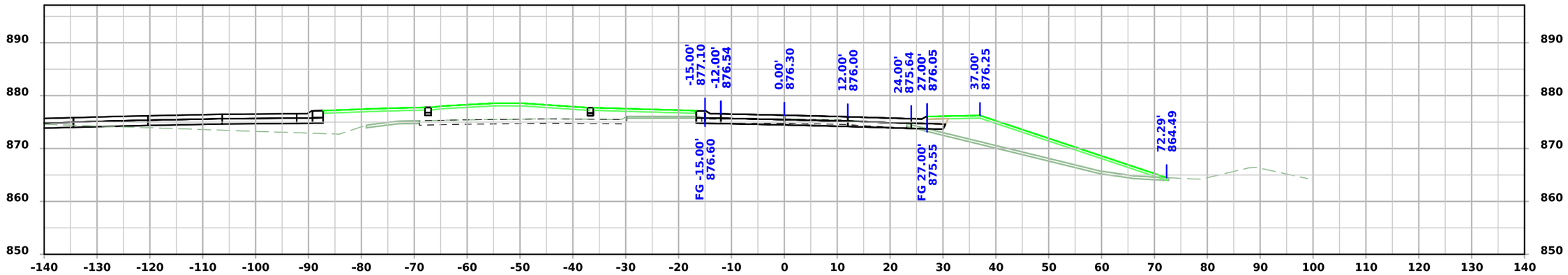
STA 2682+75.00

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER W.340

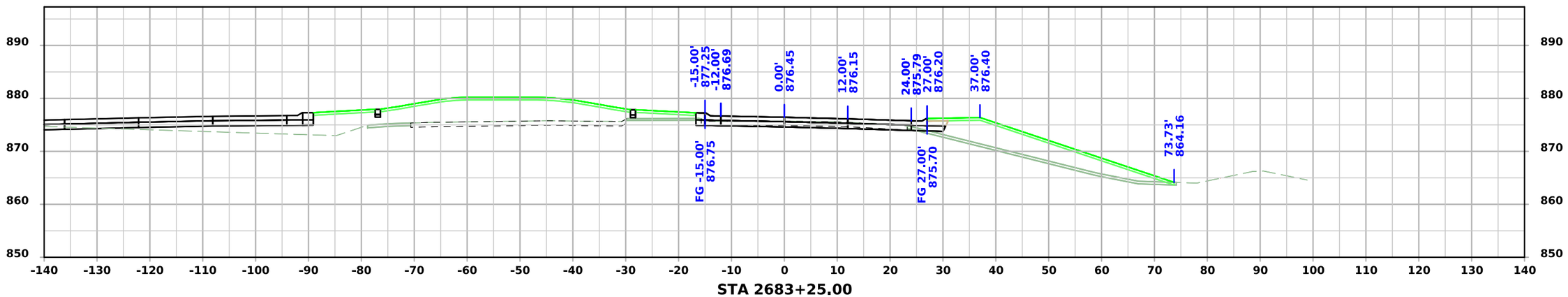
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V2

US 6 / Hickman Road EB - Final Condition



STA 2683+50.00



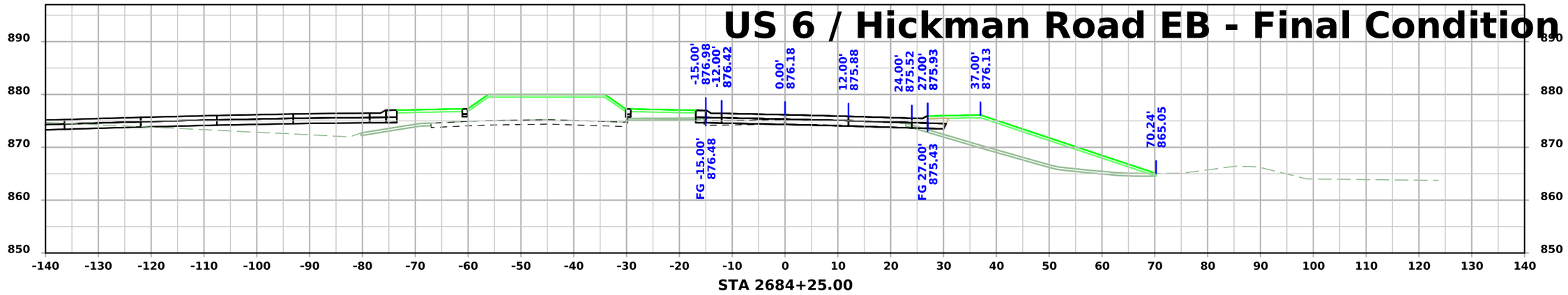
STA 2683+25.00

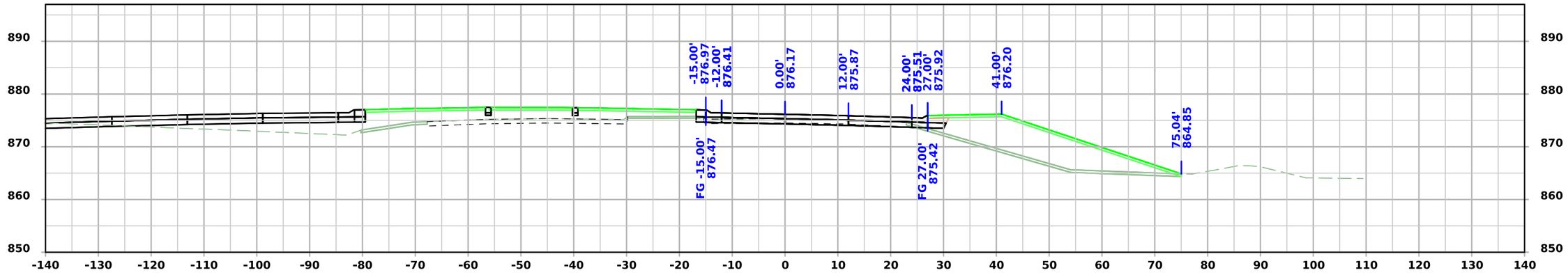
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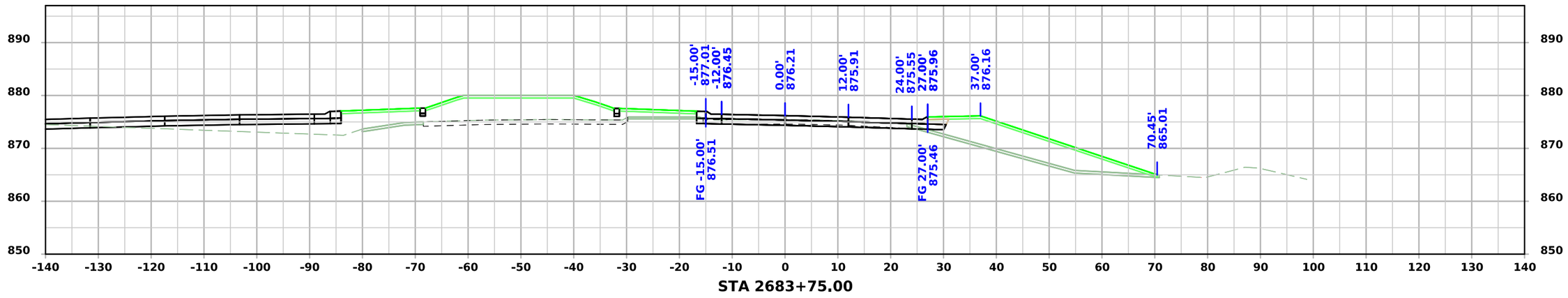
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V2

US 6 / Hickman Road EB - Final Condition





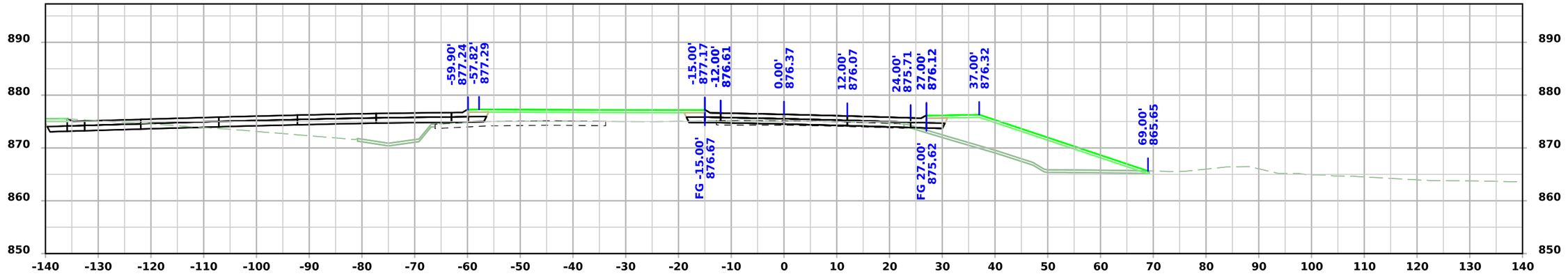


FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER W.342	

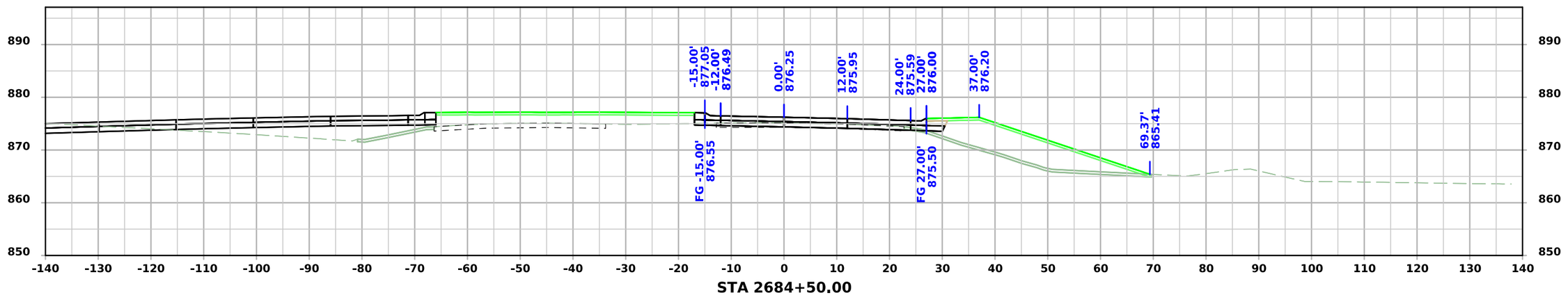
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V2

US 6 / Hickman Road EB - Final Condition



STA 2684+75.00



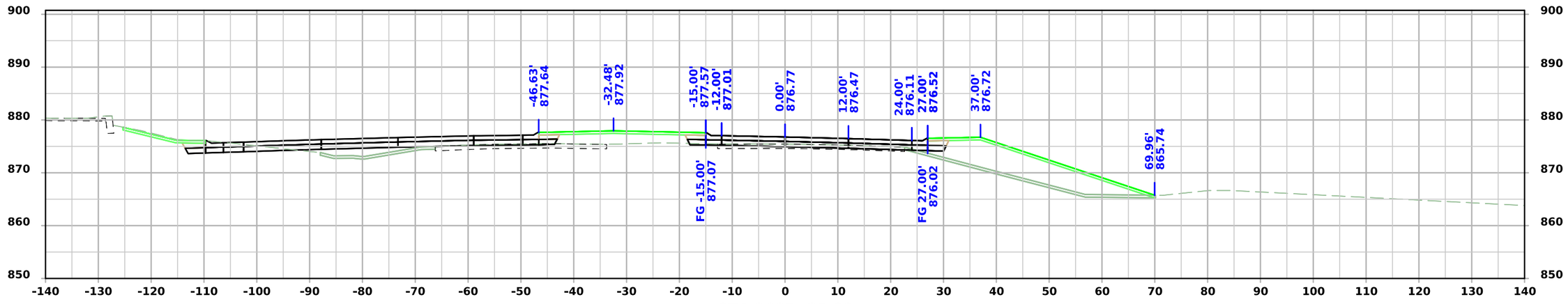
STA 2684+50.00

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER W.343	

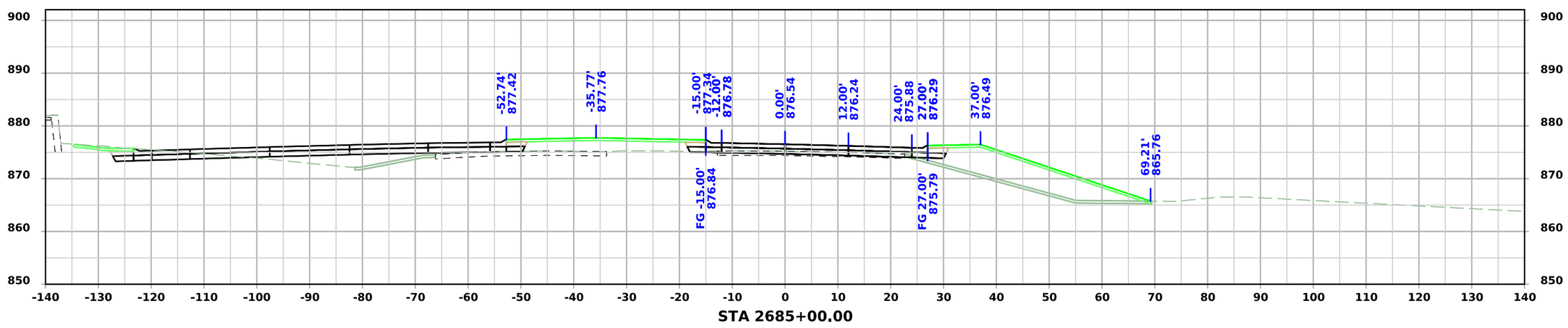
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V2

US 6 / Hickman Road EB - Final Condition



STA 2685+25.00



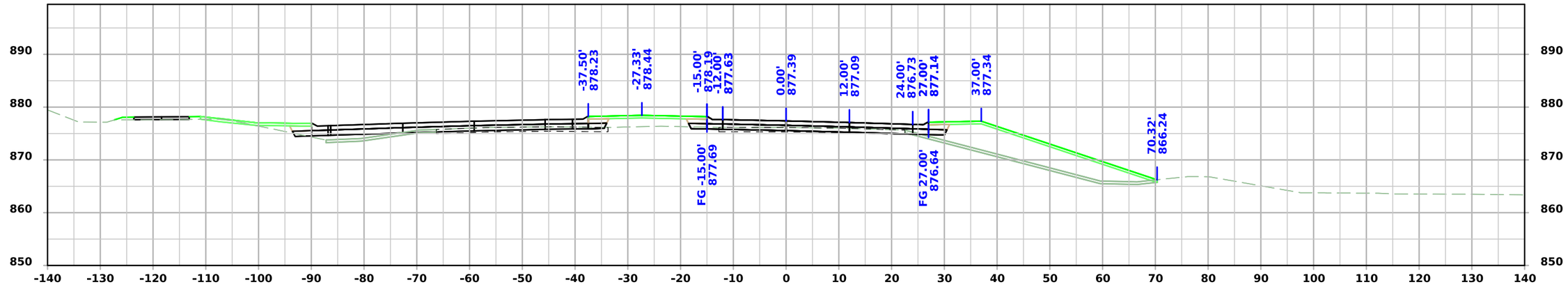
STA 2685+00.00

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER W.344

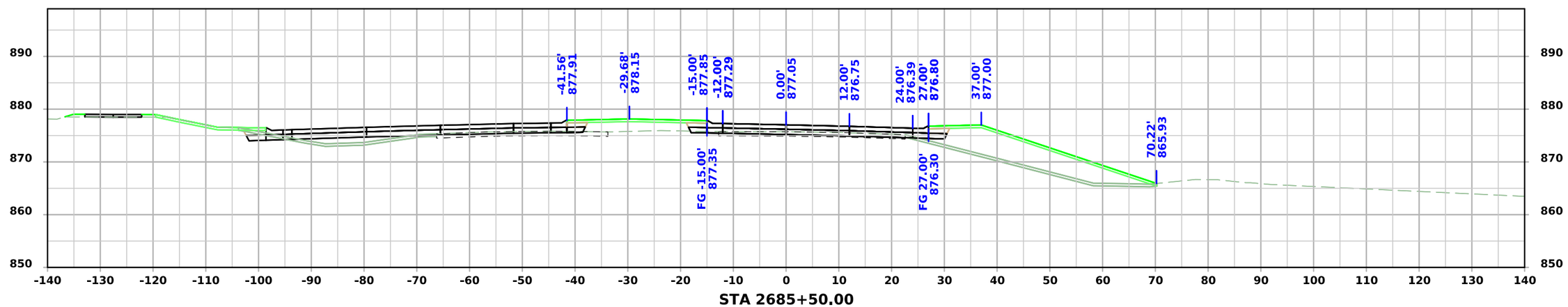
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V2

US 6 / Hickman Road EB - Final Condition



STA 2685+75.00



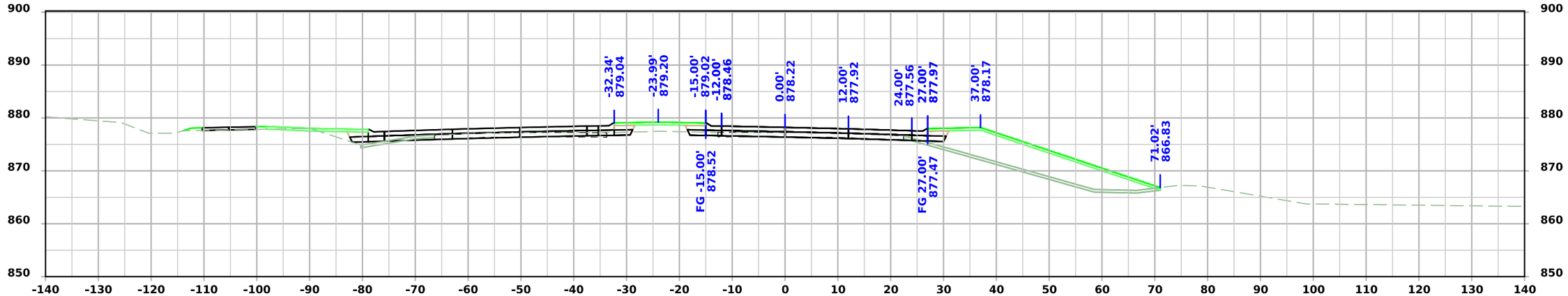
STA 2685+50.00

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER W.345

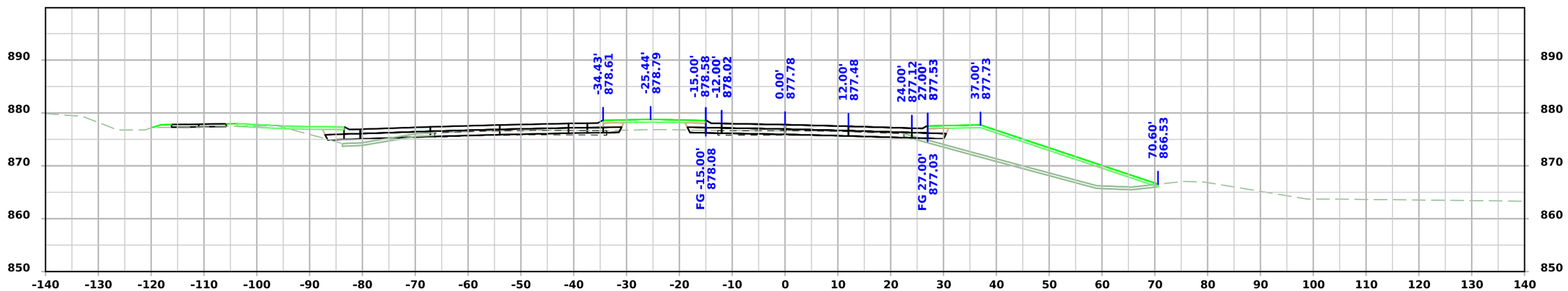
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V2

US 6 / Hickman Road EB - Final Condition



STA 2686+25.00



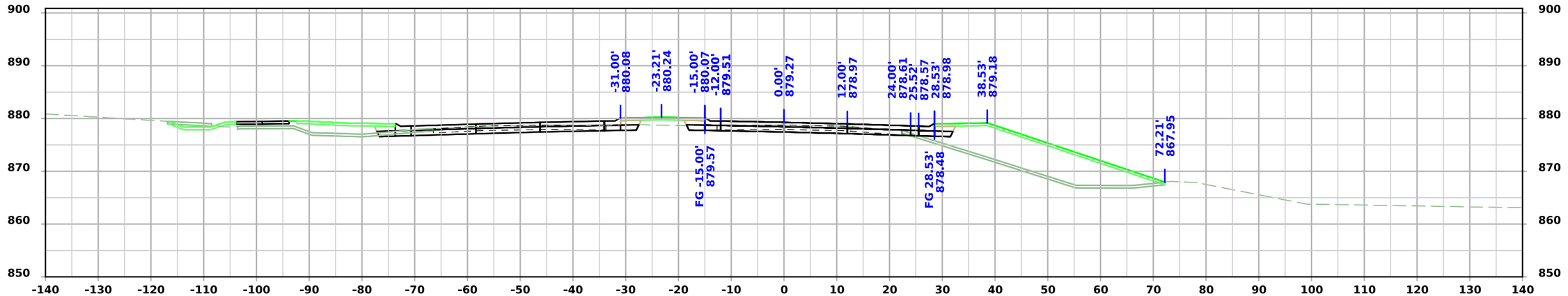
STA 2686+00.00

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER W.346

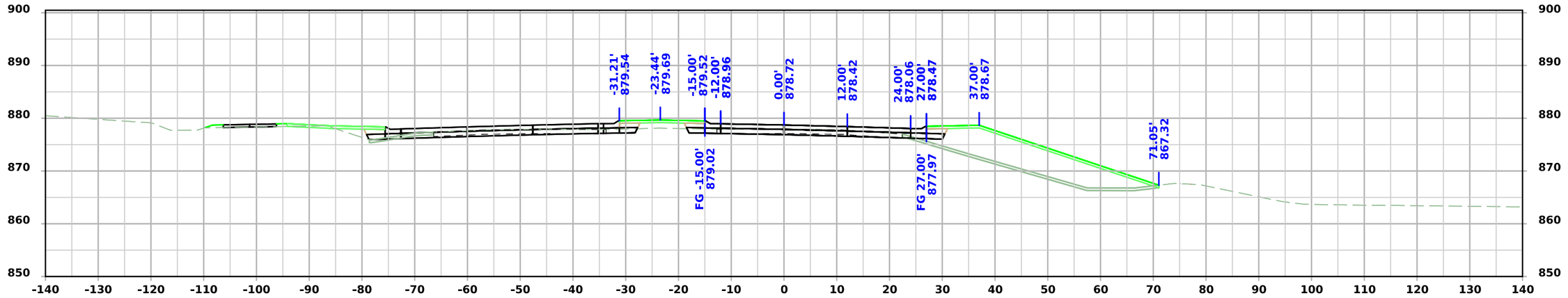
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V2

US 6 / Hickman Road EB - Final Condition



STA 2686+75.00



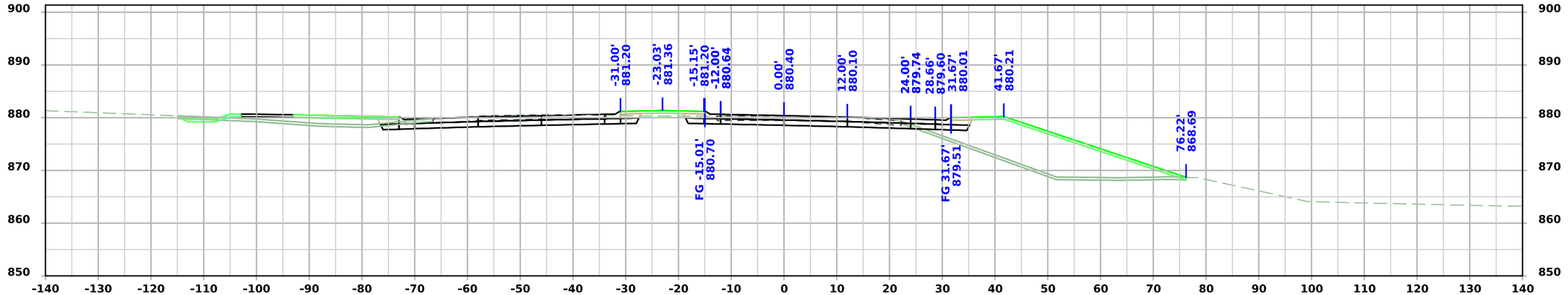
STA 2686+50.00

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER W.347

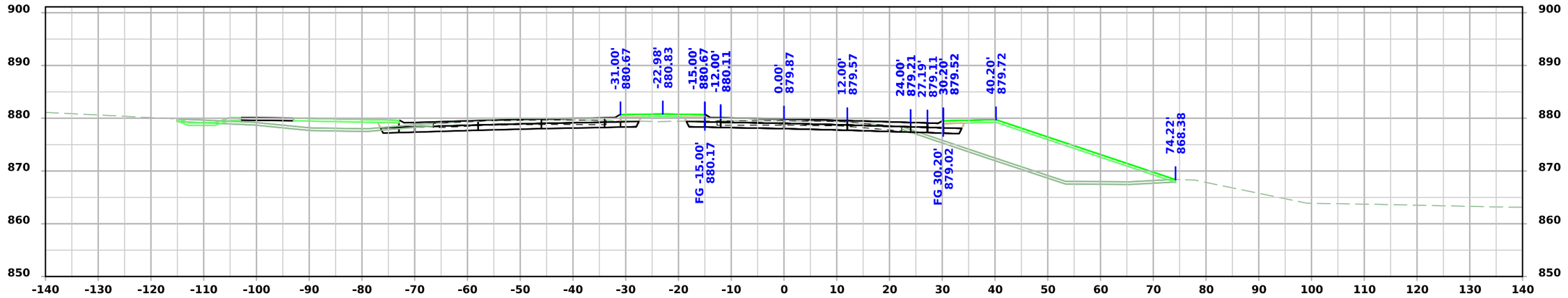
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V2

US 6 / Hickman Road EB - Final Condition



STA 2687+22.10



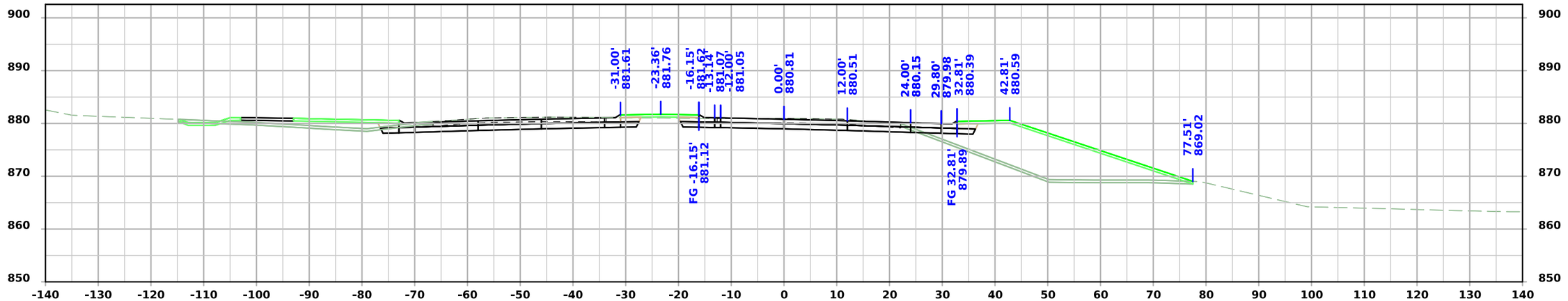
STA 2687+00.00

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER W.348

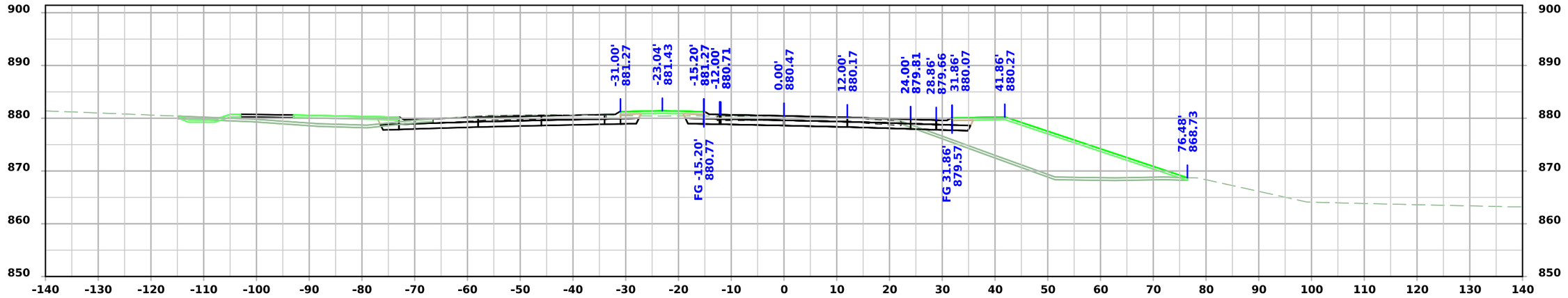
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V2

US 6 / Hickman Road EB - Final Condition



STA 2687+39.20



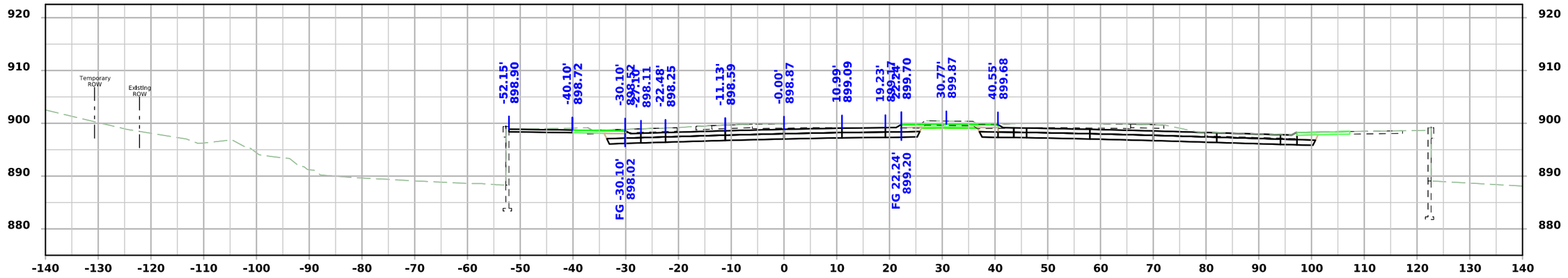
STA 2687+25.00

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER W.349

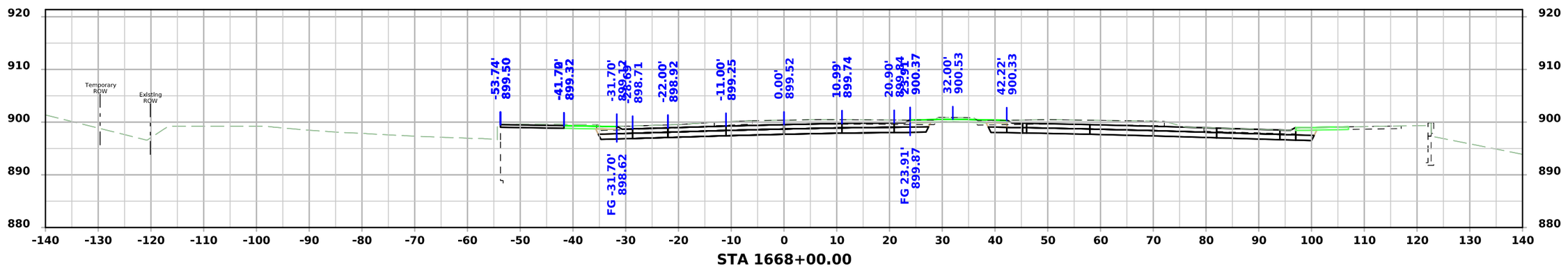
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V2

US 6 / Hickman Road WB - Final Condition



STA 1668+25.00



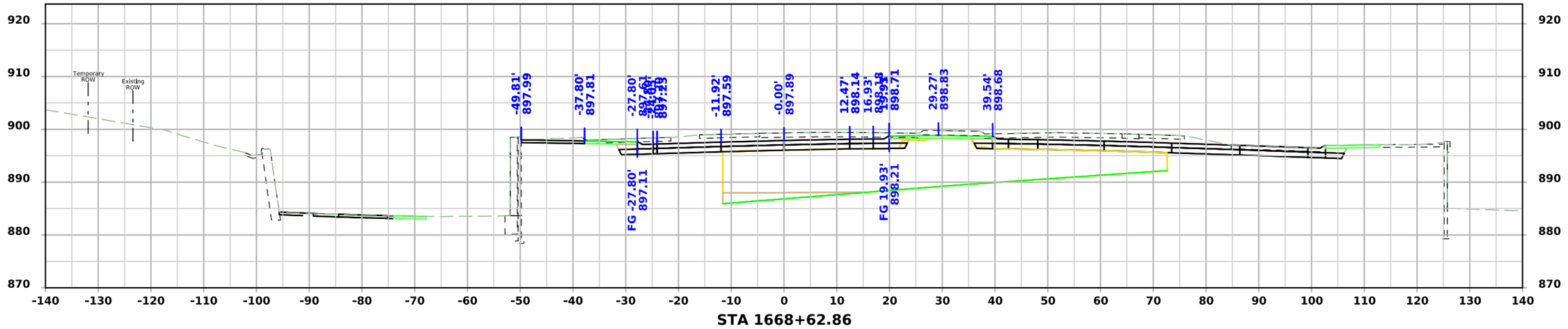
STA 1668+00.00

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER W.400

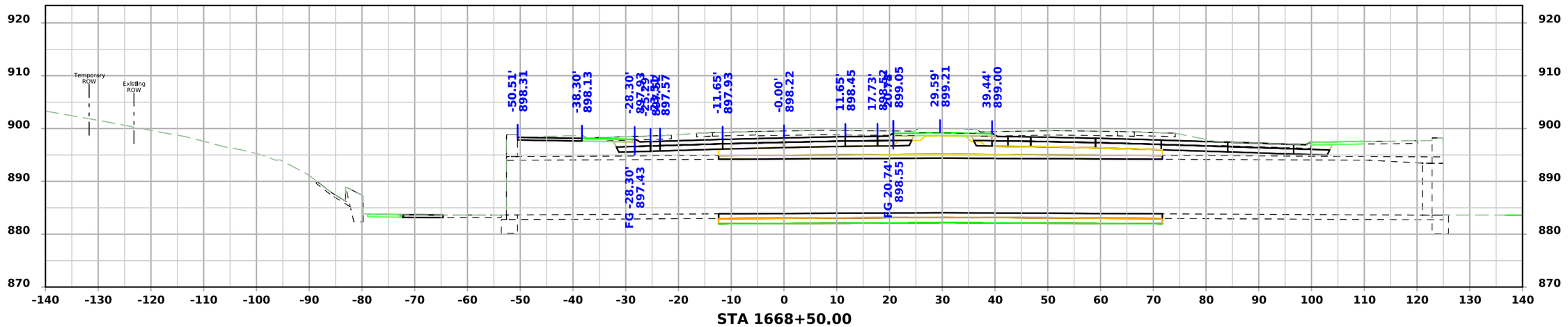
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V2

US 6 / Hickman Road WB - Final Condition



STA 1668+62.86



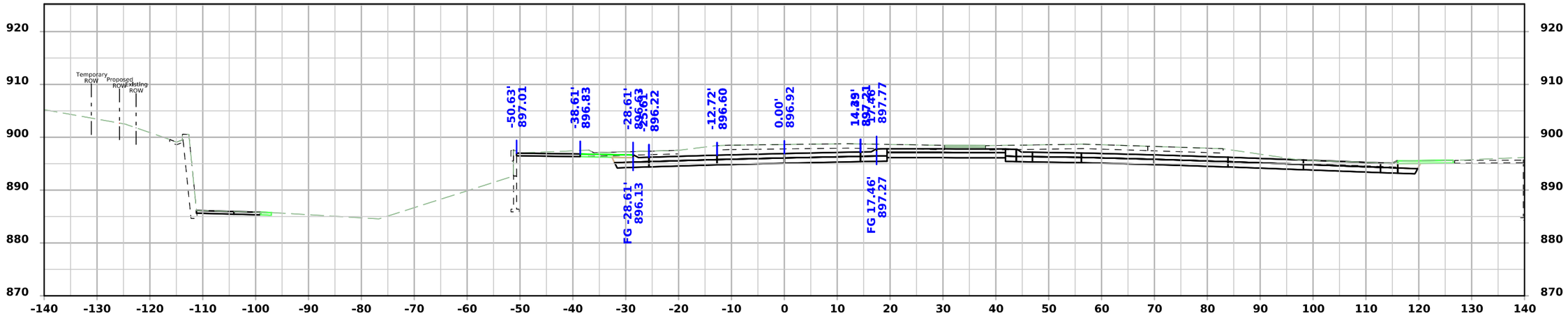
STA 1668+50.00

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER W.401

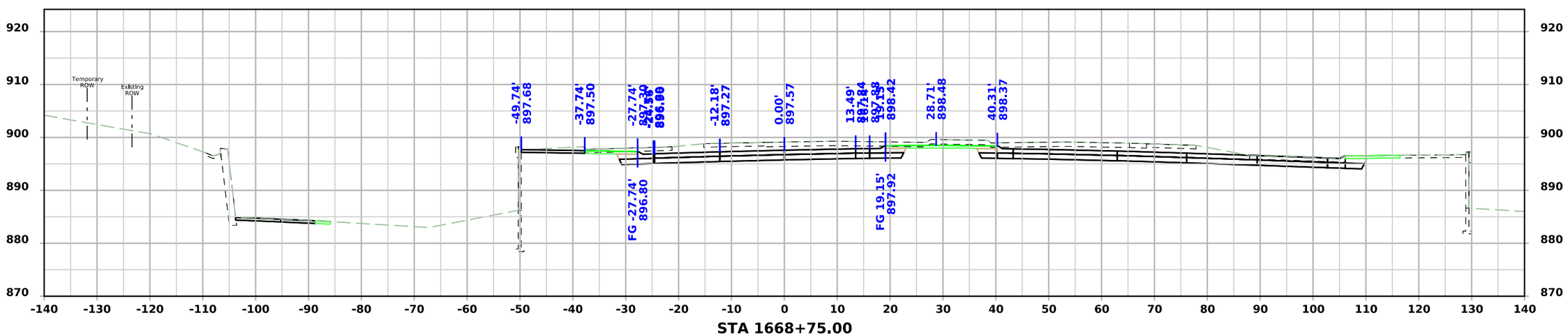
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V2

US 6 / Hickman Road WB - Final Condition



STA 1669+00.00



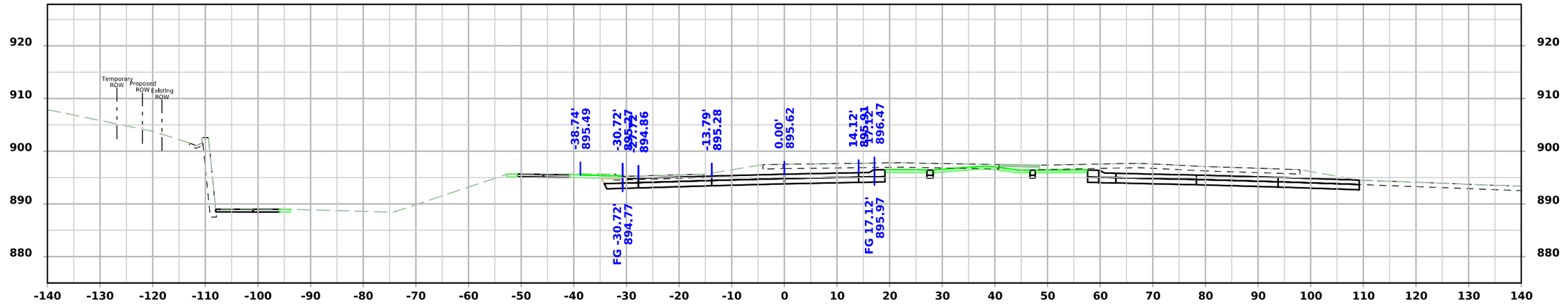
STA 1668+75.00

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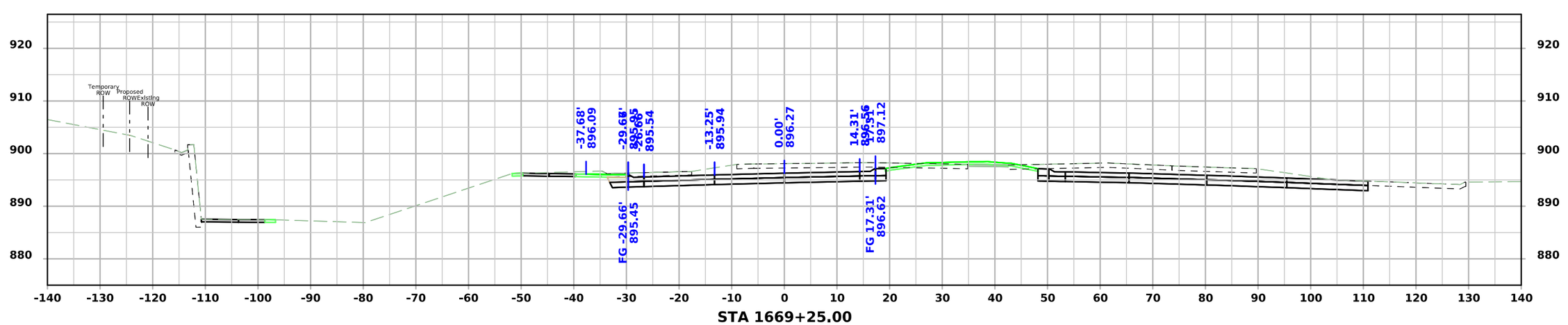
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V2

US 6 / Hickman Road WB - Final Condition



STA 1669+50.00



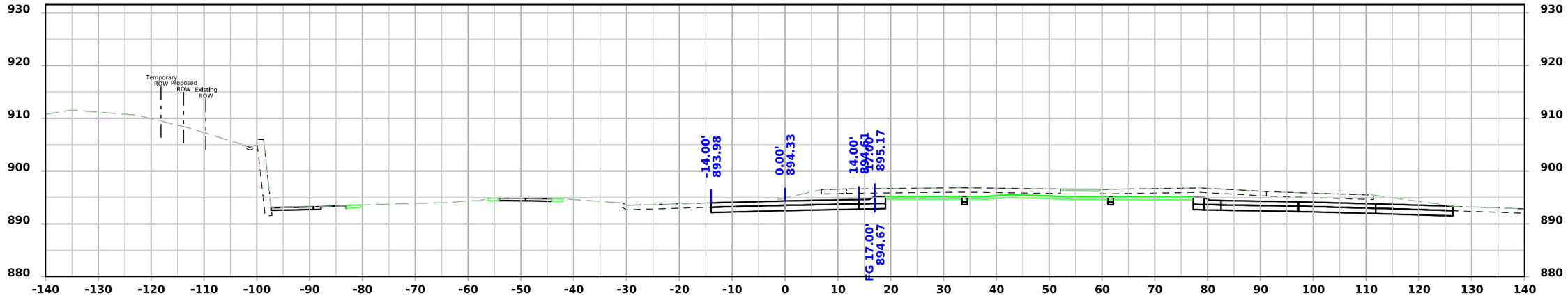
STA 1669+25.00

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER W.403

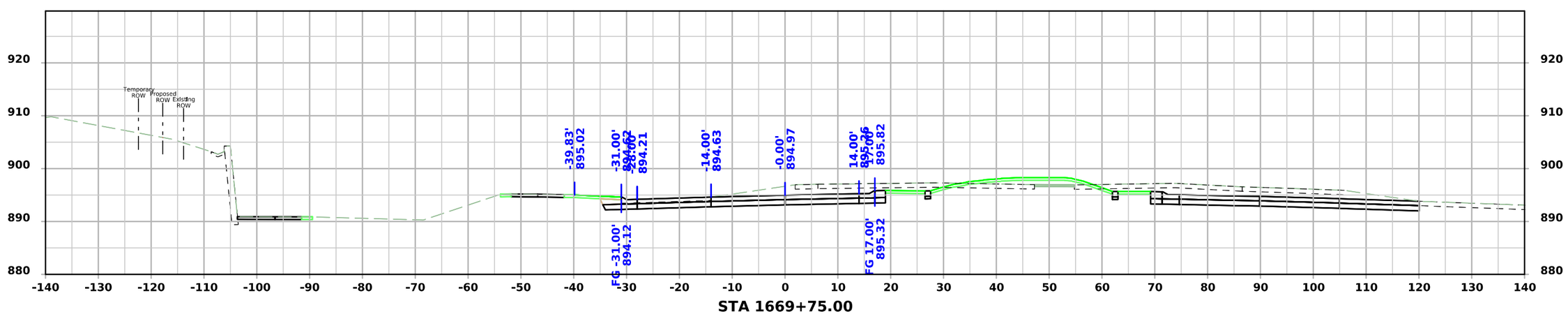
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V2

US 6 / Hickman Road WB - Final Condition



STA 1670+00.00



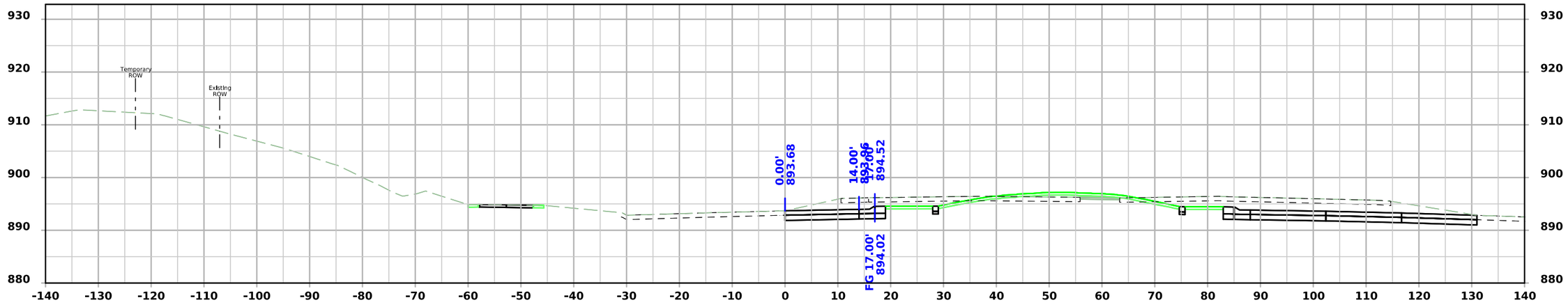
STA 1669+75.00

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER W.404

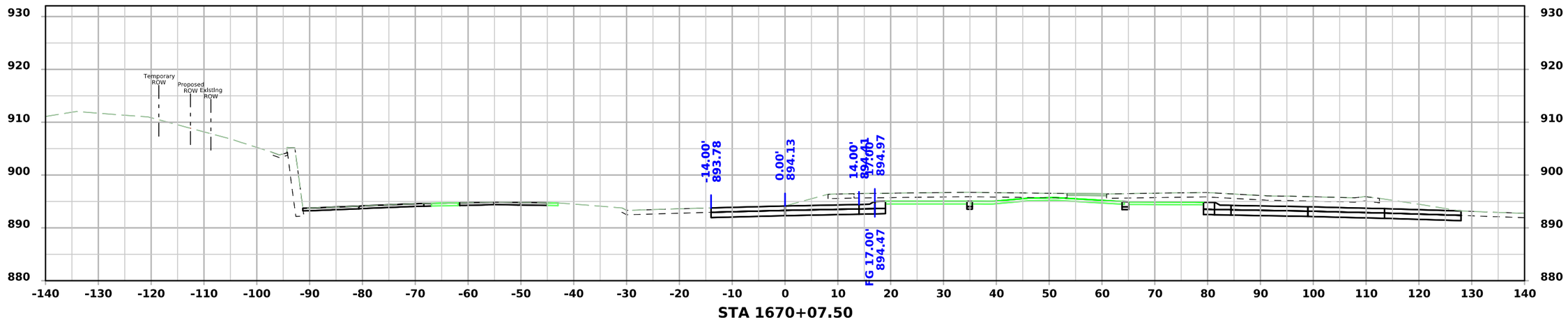
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V2

US 6 / Hickman Road WB - Final Condition



STA 1670+25.00



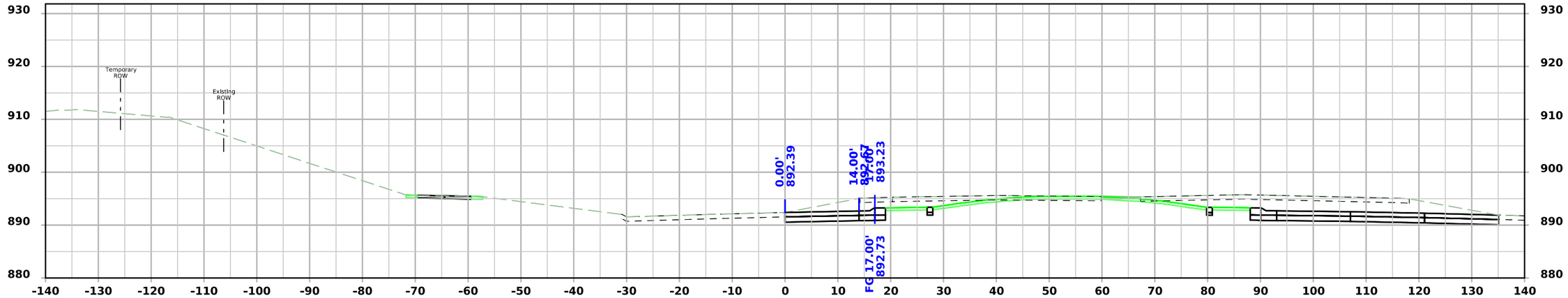
STA 1670+07.50

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER W.405

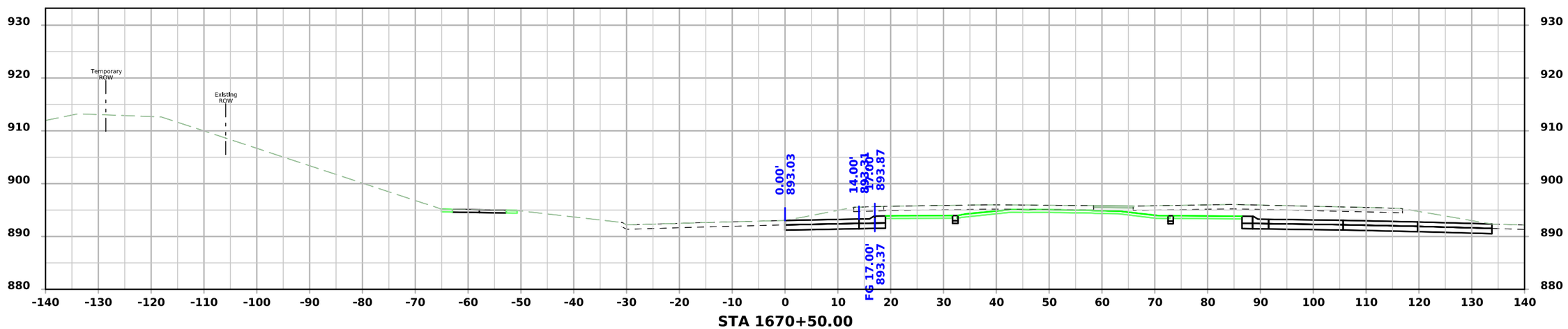
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V2

US 6 / Hickman Road WB - Final Condition



STA 1670+75.00



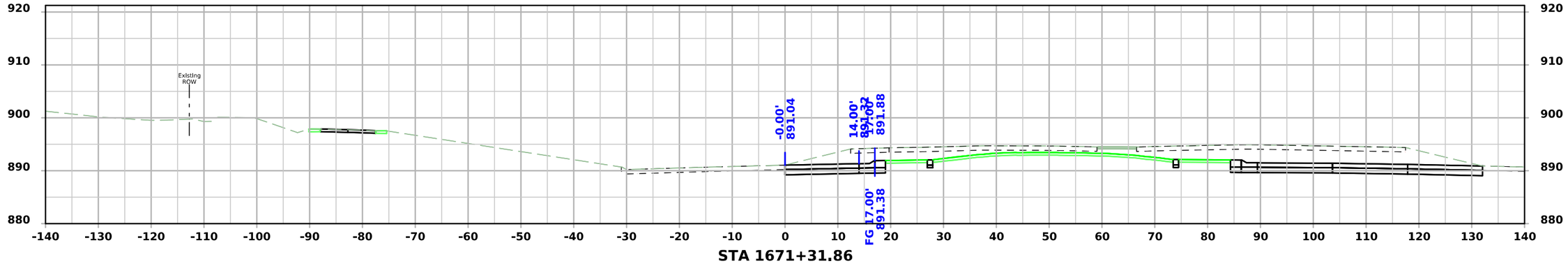
STA 1670+50.00

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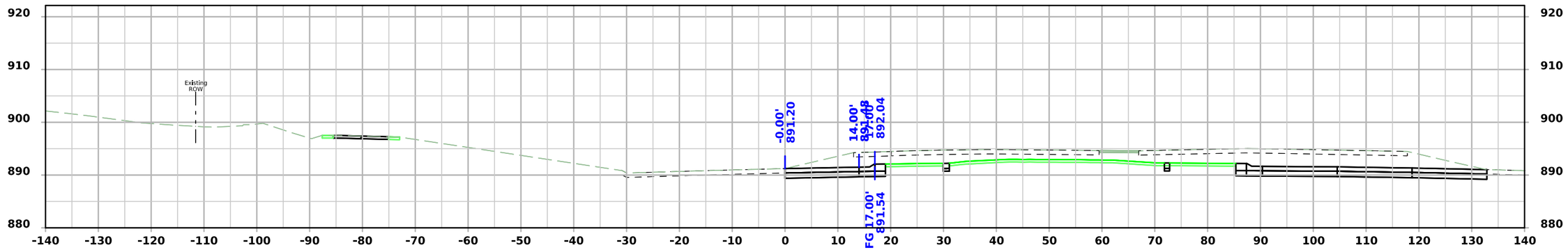
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V2

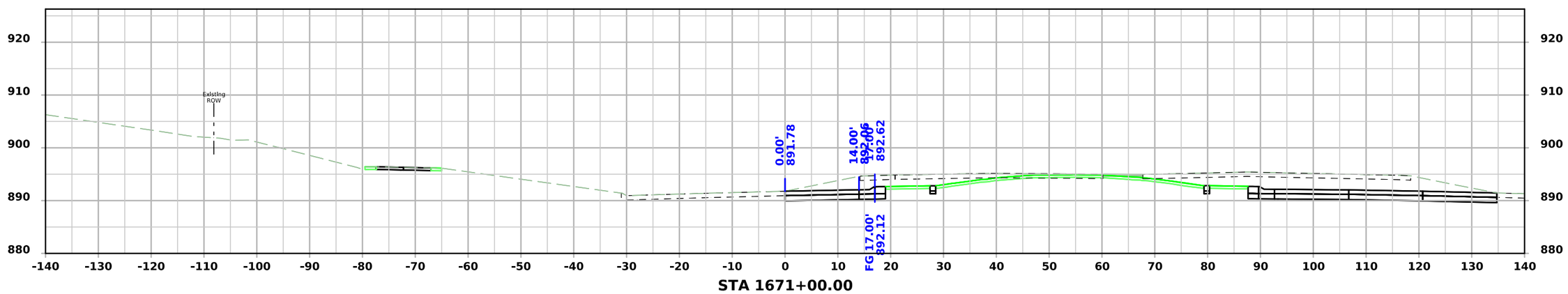
US 6 / Hickman Road WB - Final Condition



STA 1671+31.86



STA 1671+25.00



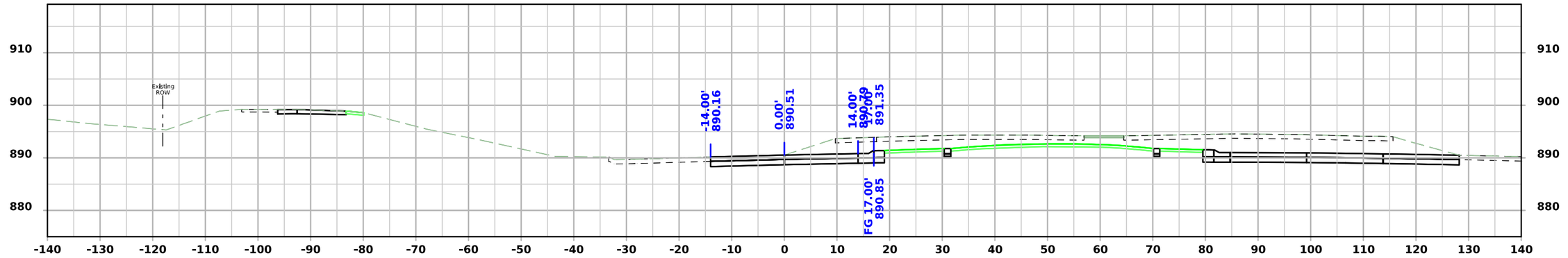
STA 1671+00.00

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER W.407

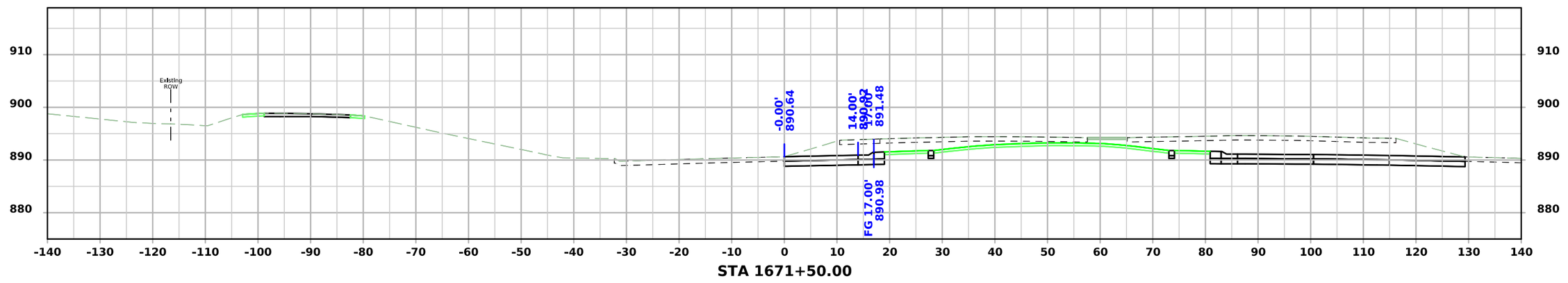
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V2

US 6 / Hickman Road WB - Final Condition



STA 1671+56.22



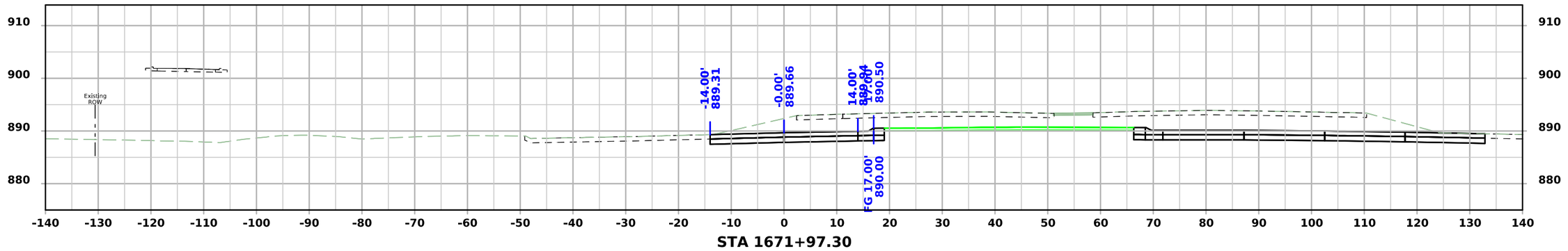
STA 1671+50.00

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER W.408

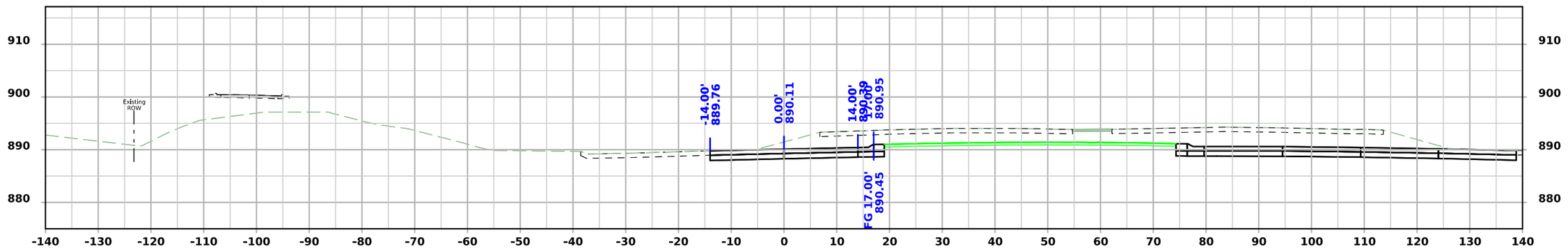
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V2

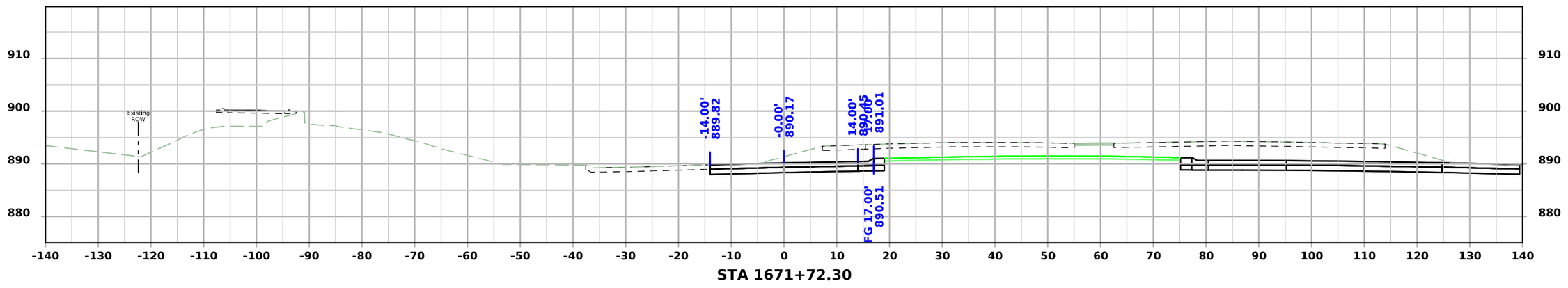
US 6 / Hickman Road WB - Final Condition



STA 1671+97.30



STA 1671+75.00



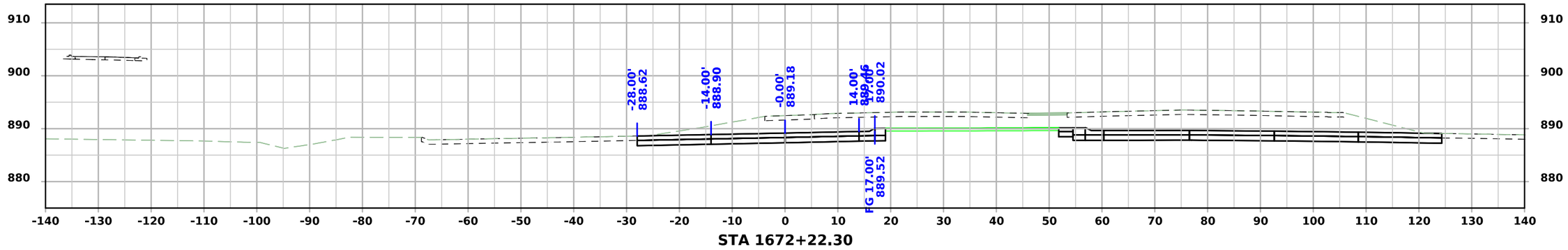
STA 1671+72.30

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER W.409

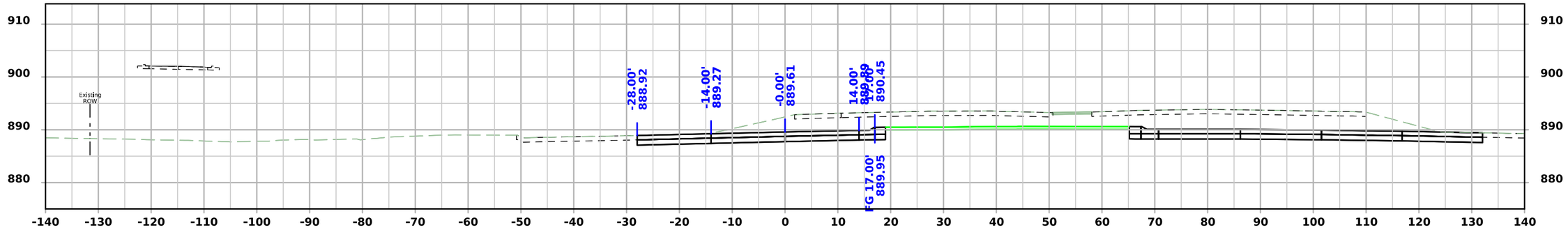
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V2

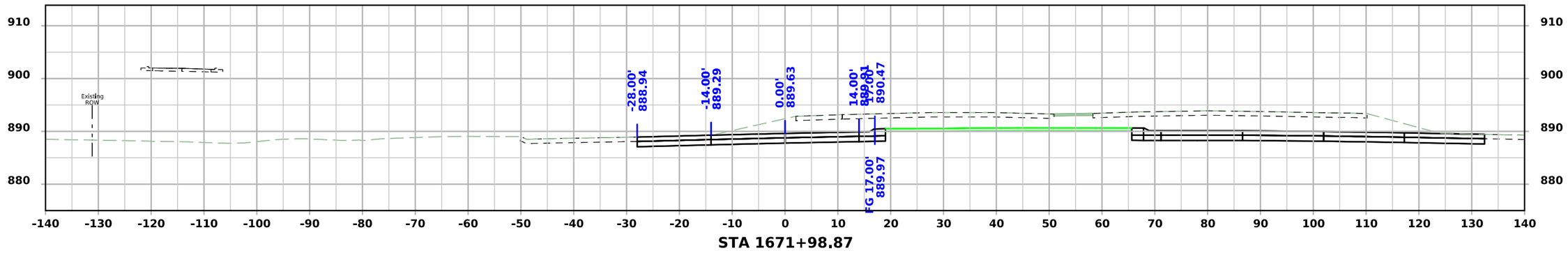
US 6 / Hickman Road WB - Final Condition



STA 1672+22.30



STA 1672+00.00



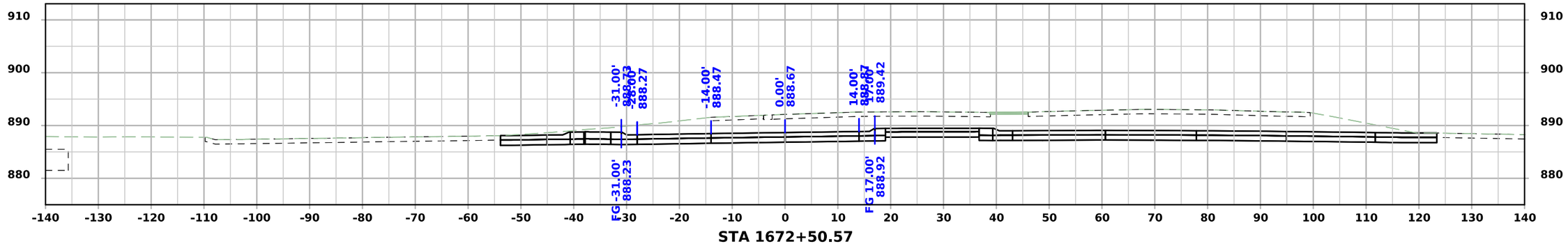
STA 1671+98.87

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER W.410

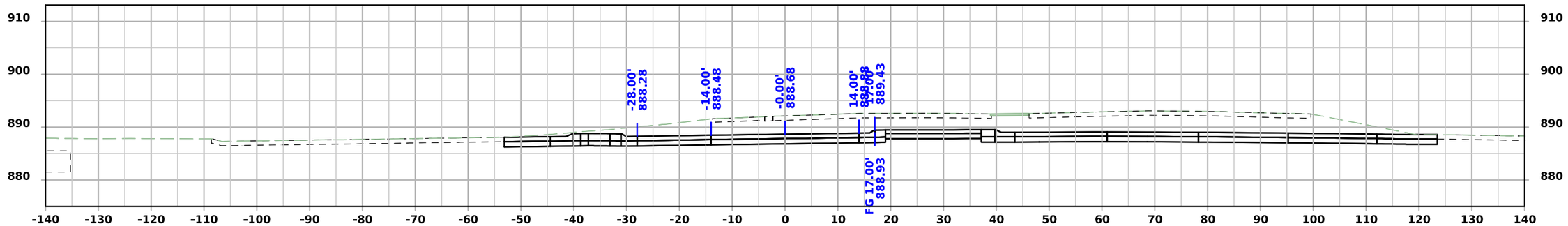
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V2

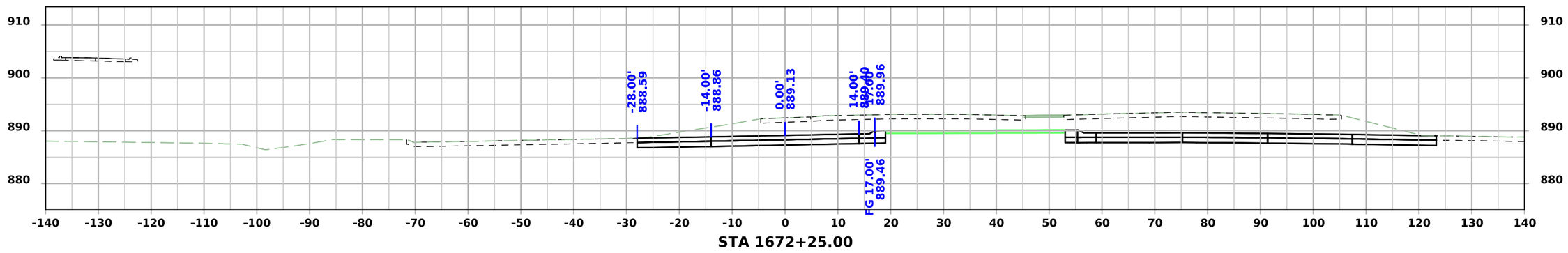
US 6 / Hickman Road WB - Final Condition



STA 1672+50.57



STA 1672+50.00



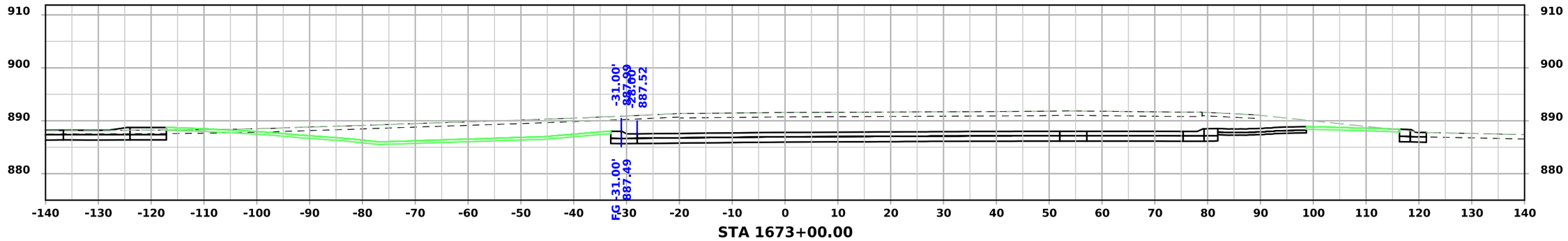
STA 1672+25.00

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER W.411

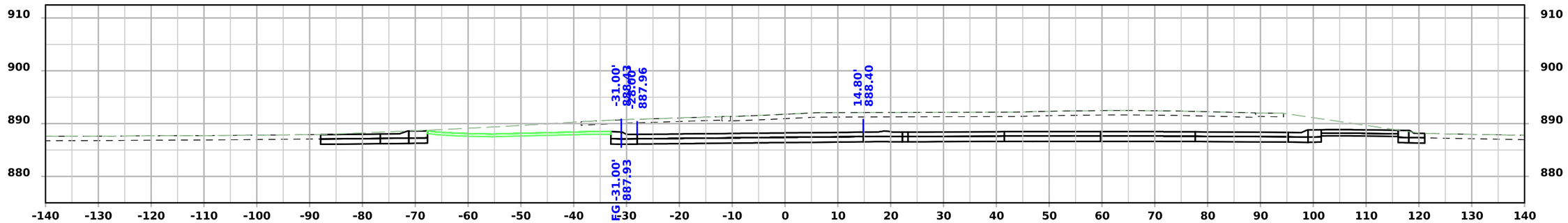
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V2

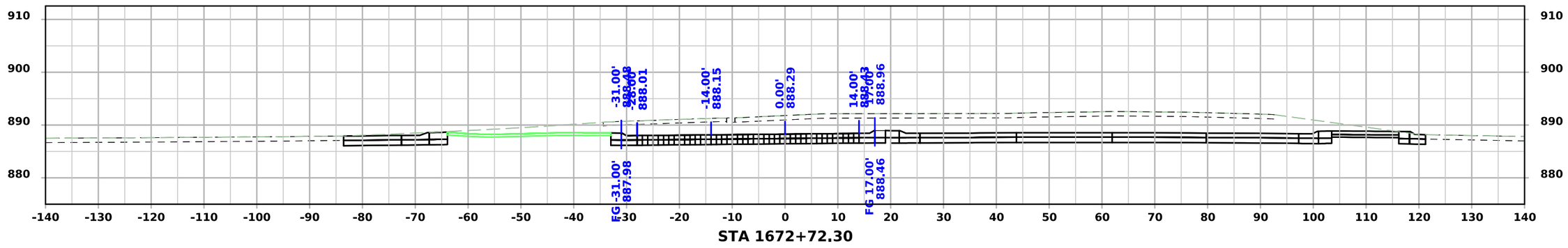
US 6 / Hickman Road WB - Final Condition



STA 1673+00.00



STA 1672+75.00



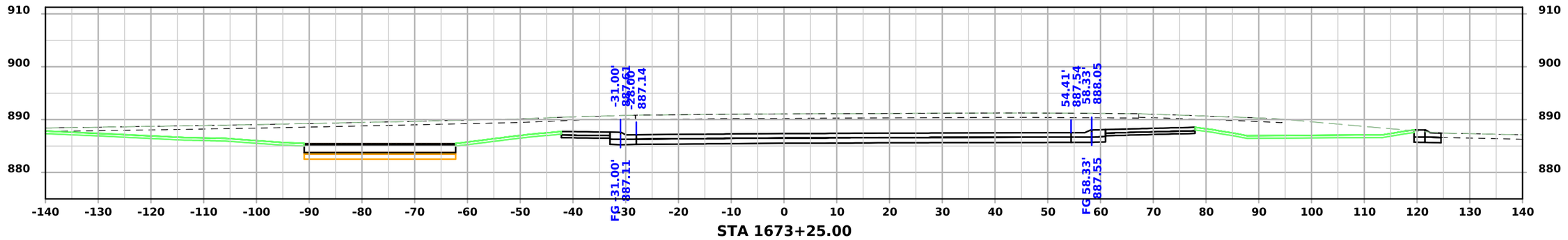
STA 1672+72.30

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER W.412

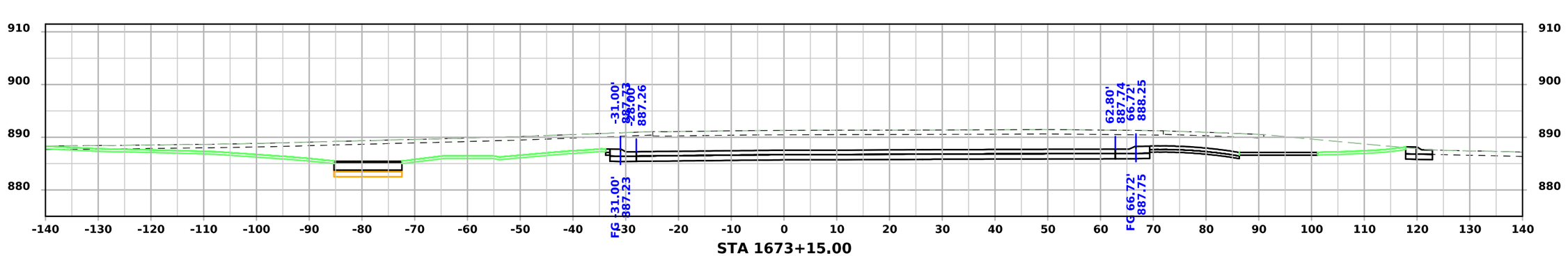
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V2

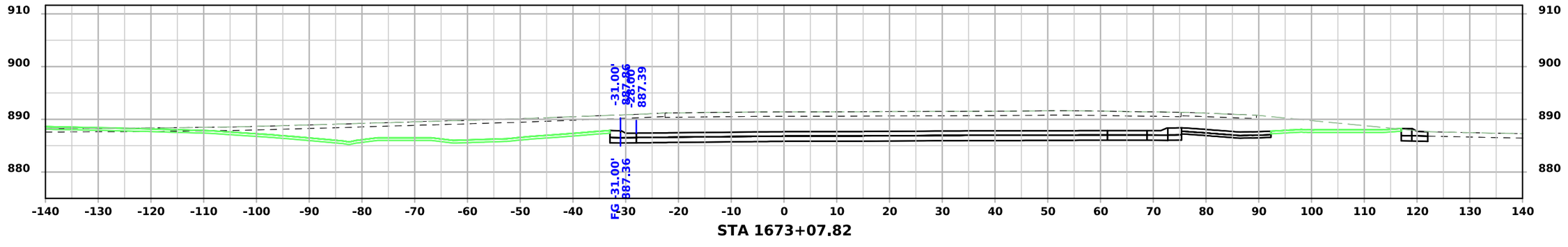
US 6 / Hickman Road WB - Final Condition



STA 1673+25.00



STA 1673+15.00



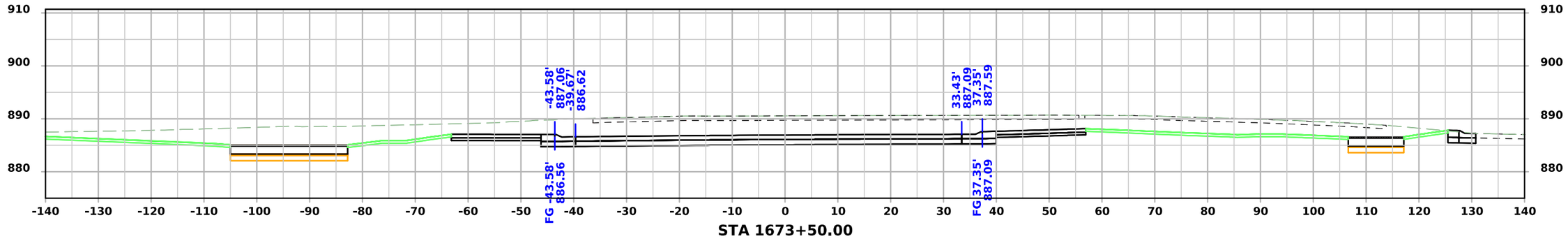
STA 1673+07.82

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER W.413

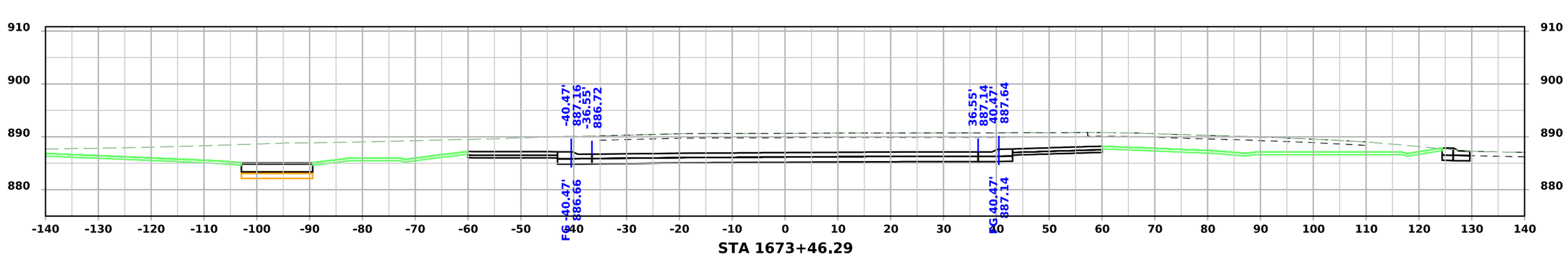
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V2

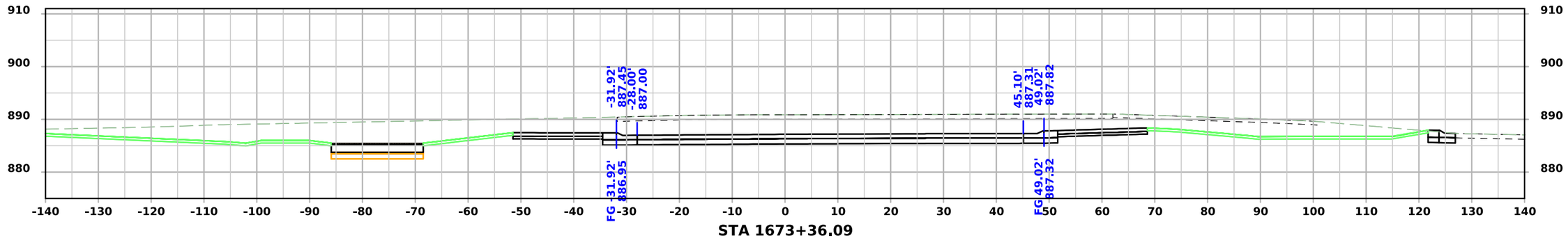
US 6 / Hickman Road WB - Final Condition



STA 1673+50.00



STA 1673+46.29



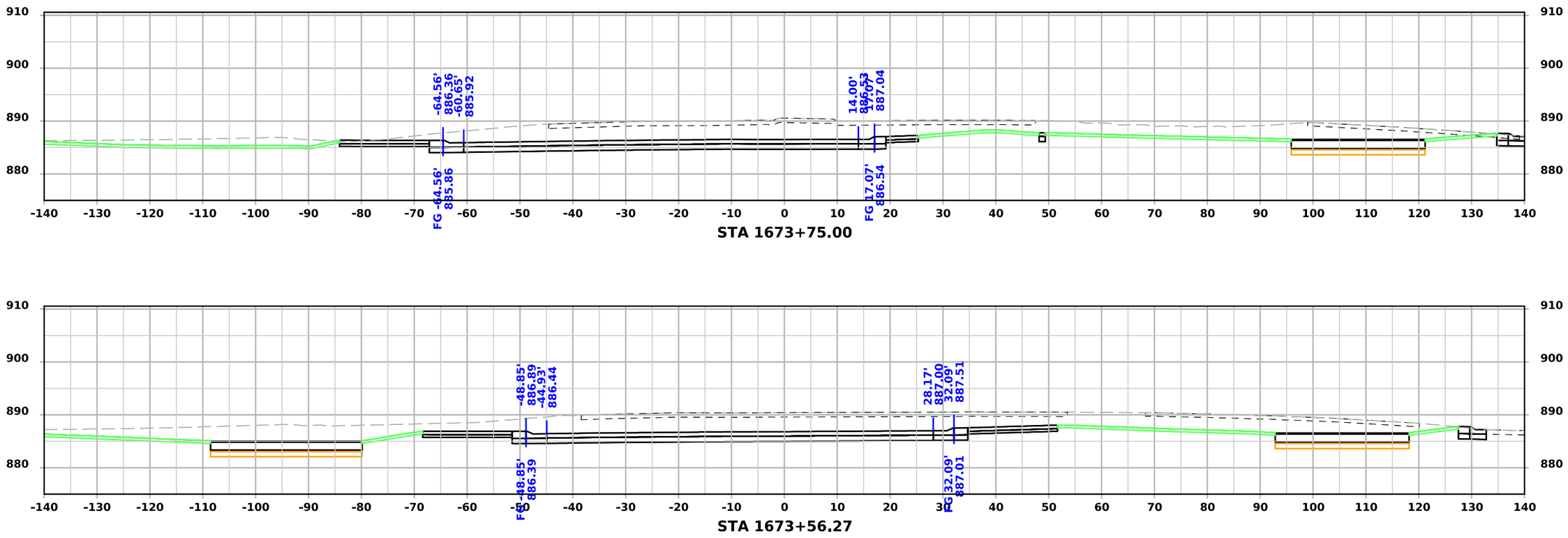
STA 1673+36.09

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER W.414

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V2

US 6 / Hickman Road WB - Final Condition

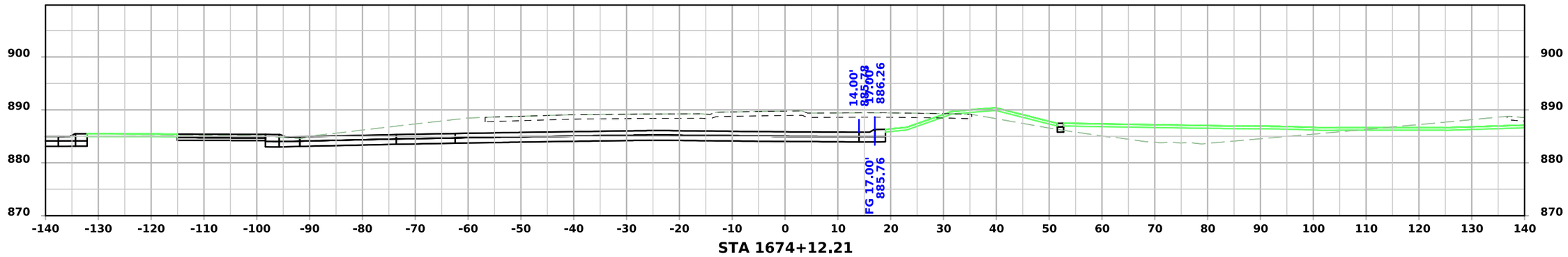


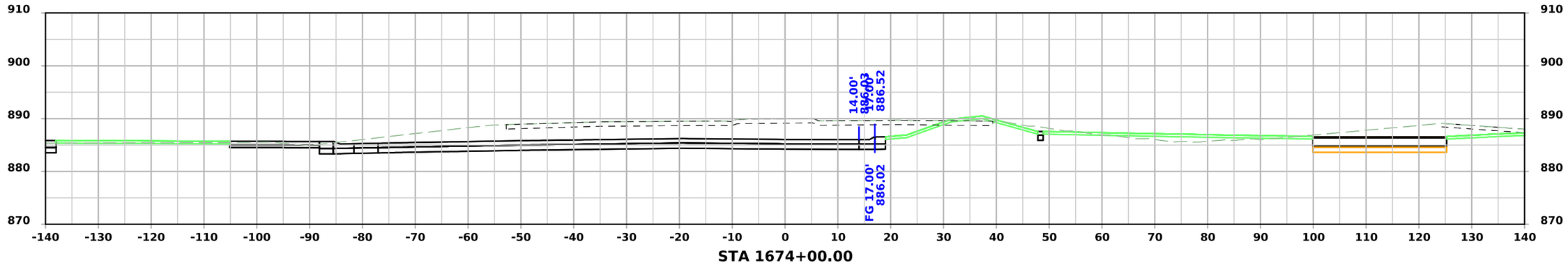
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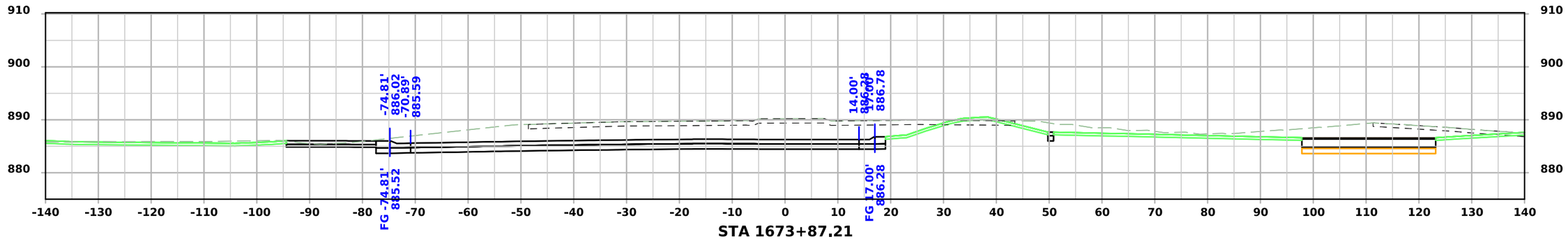
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V2

US 6 / Hickman Road WB - Final Condition





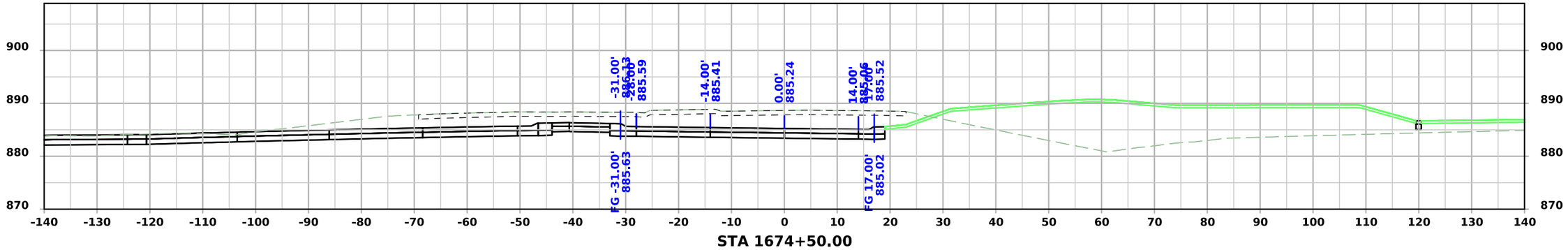


FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER W.416

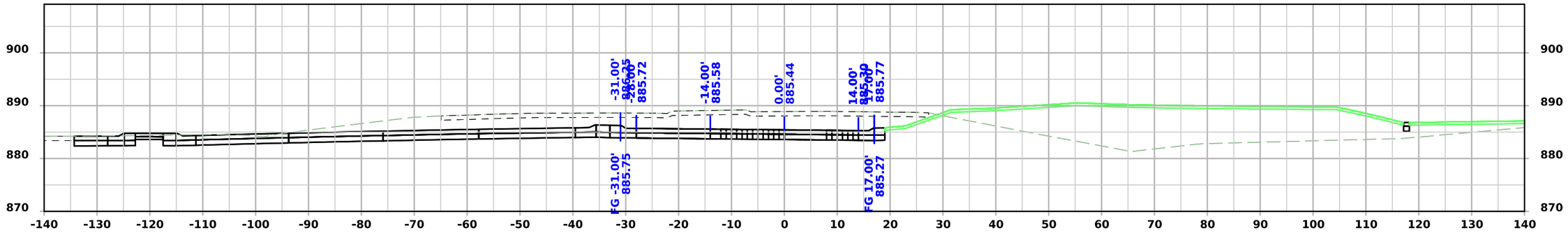
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V2

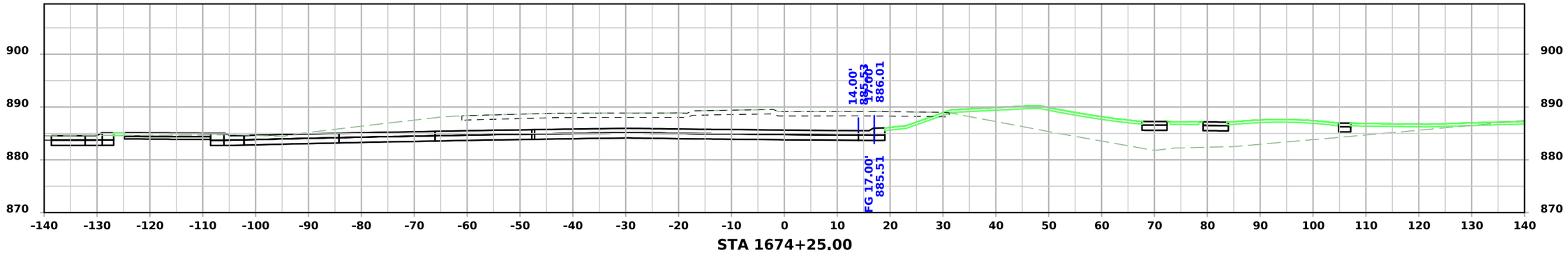
US 6 / Hickman Road WB - Final Condition



STA 1674+50.00



STA 1674+36.95



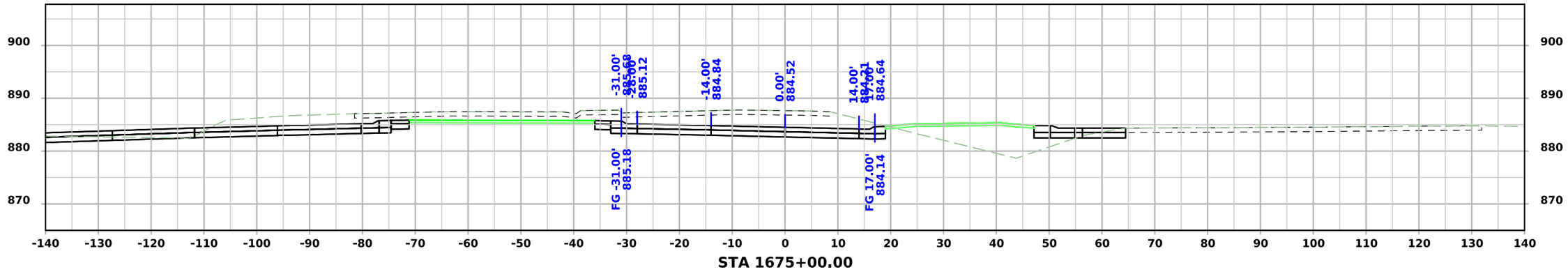
STA 1674+25.00

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER W.417

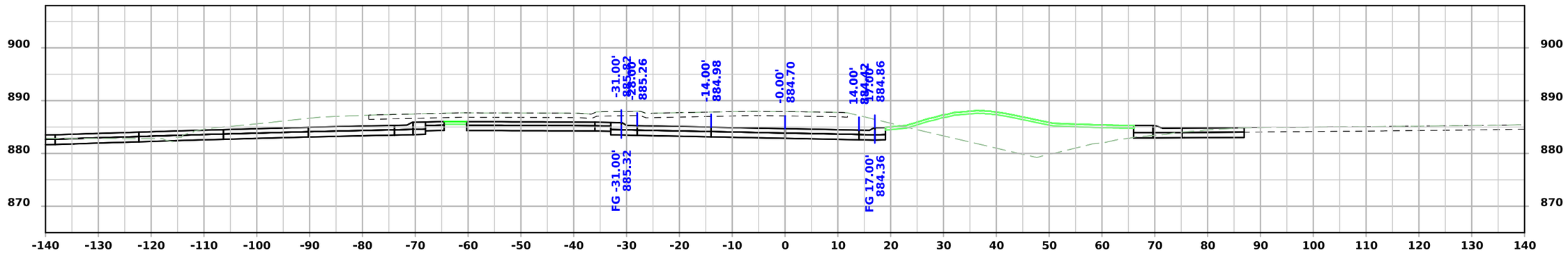
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V2

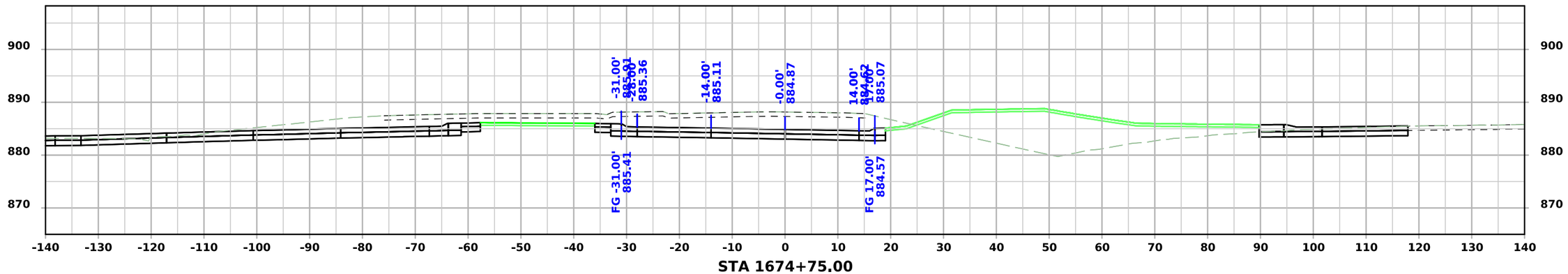
US 6 / Hickman Road WB - Final Condition



STA 1675+00.00



STA 1674+86.95



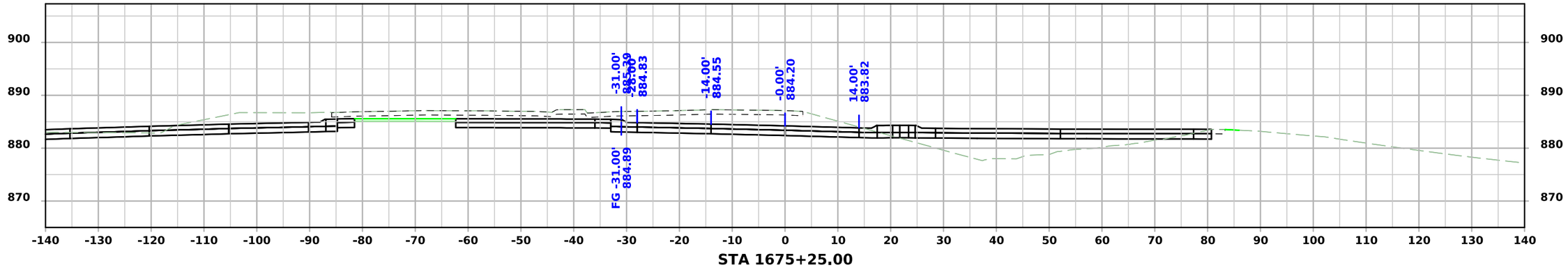
STA 1674+75.00

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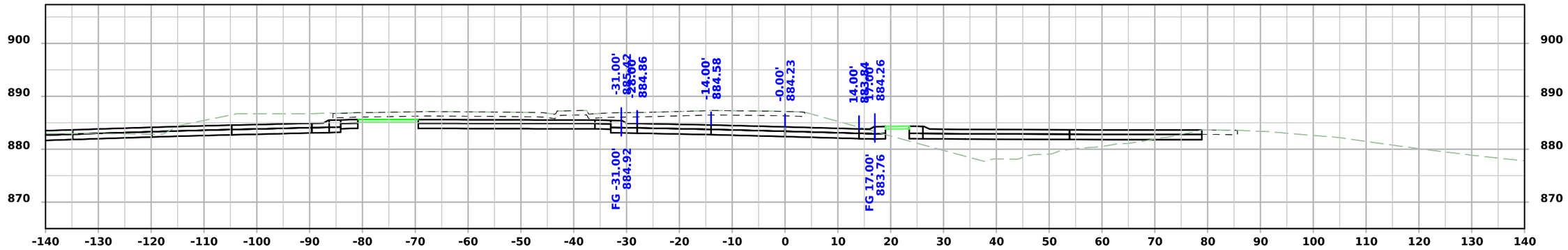
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V2

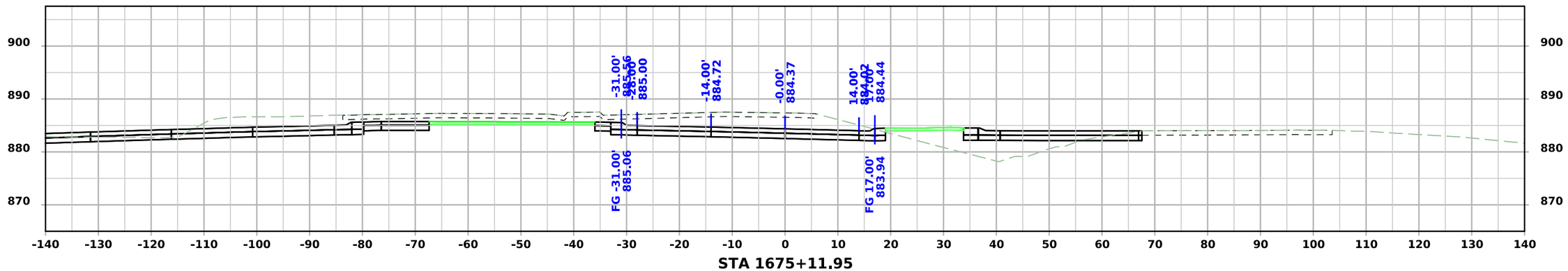
US 6 / Hickman Road WB - Final Condition



STA 1675+25.00



STA 1675+23.23



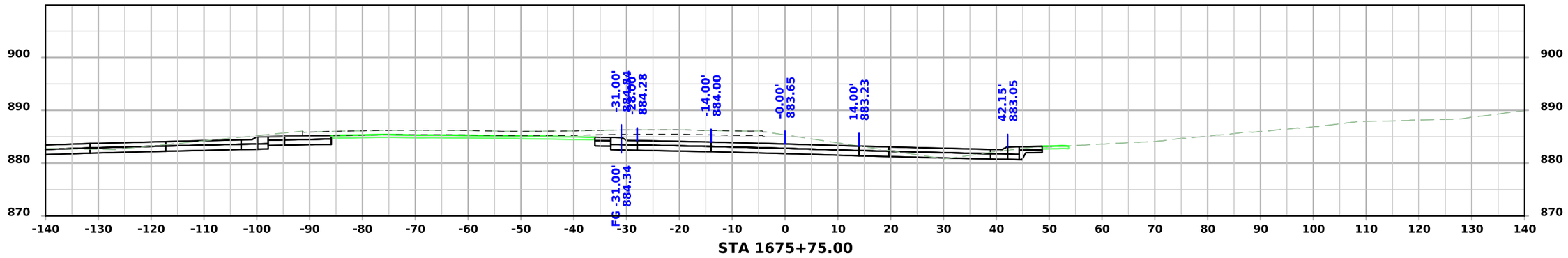
STA 1675+11.95

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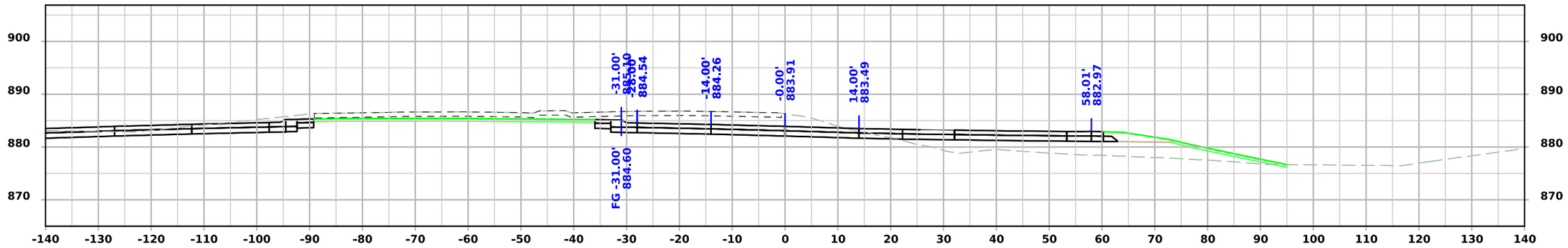
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V2

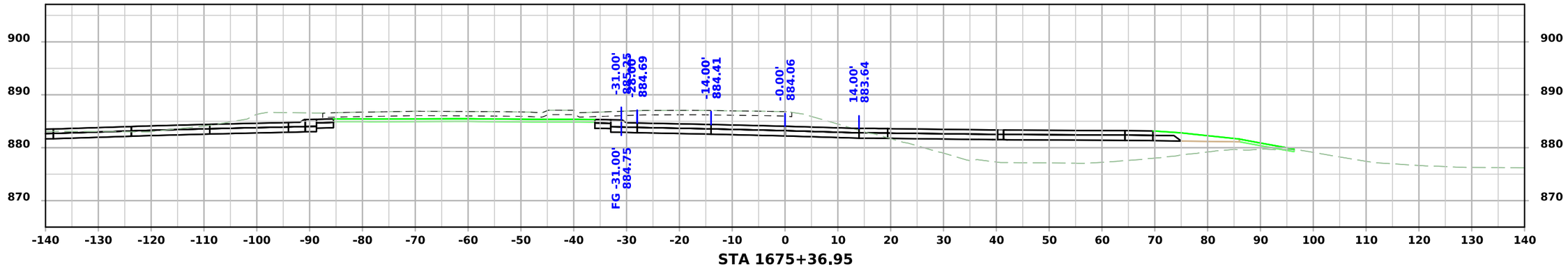
US 6 / Hickman Road WB - Final Condition



STA 1675+75.00



STA 1675+50.00



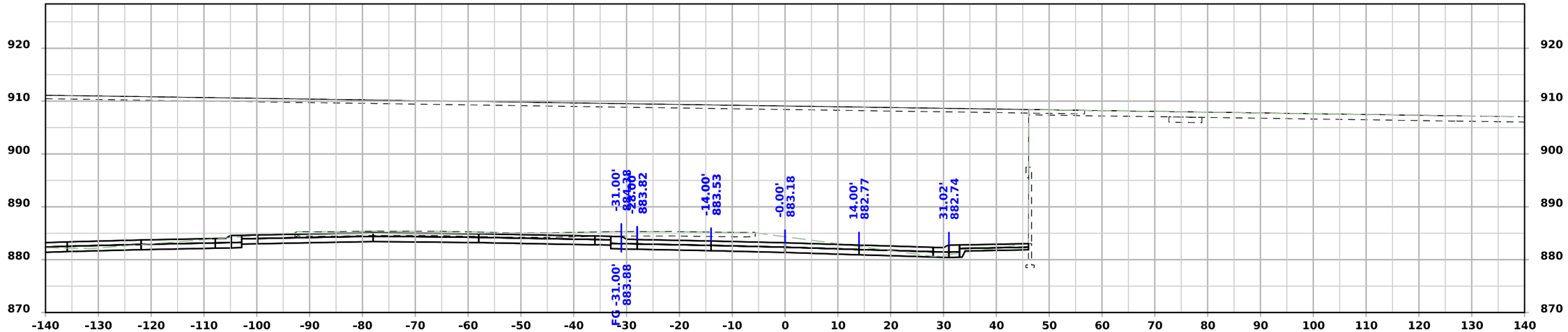
STA 1675+36.95

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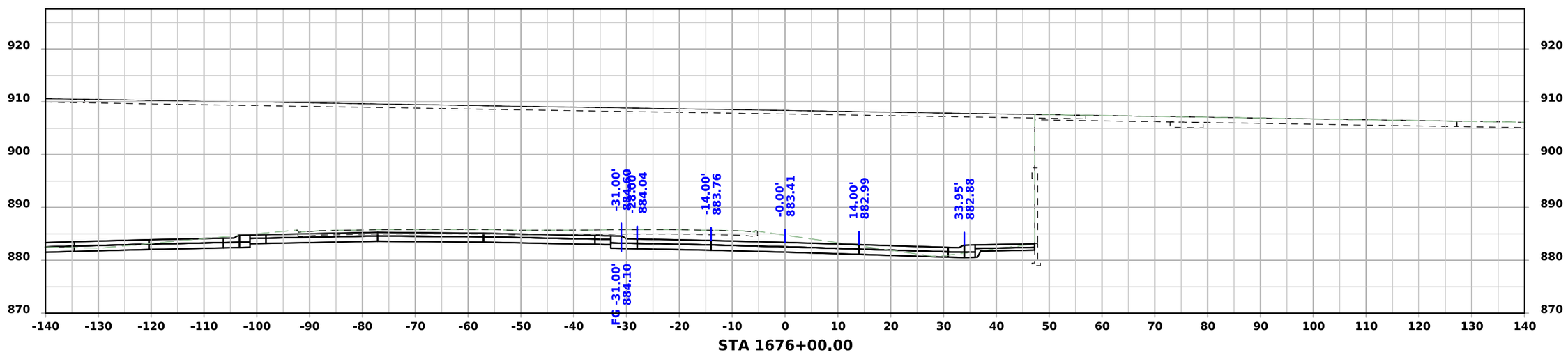
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V2

US 6 / Hickman Road WB - Final Condition



STA 1676+25.00



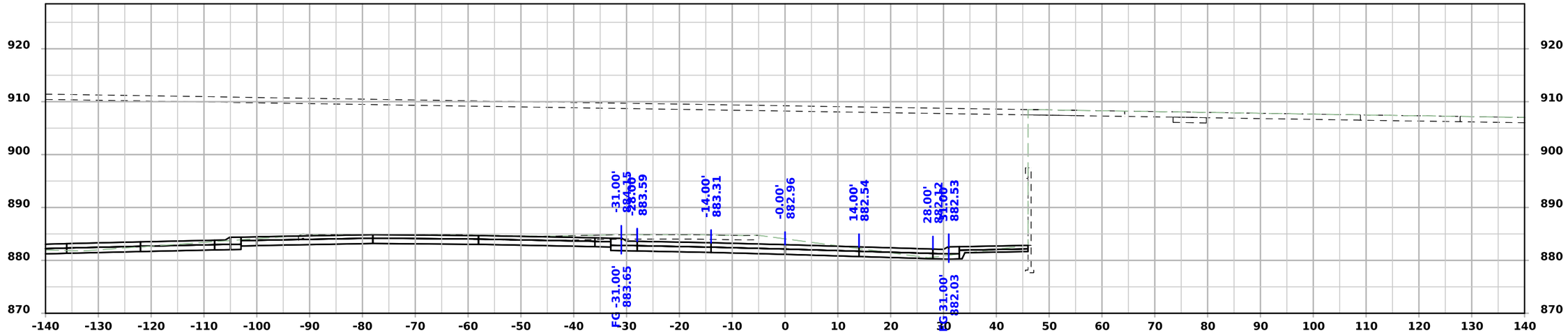
STA 1676+00.00

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER W.421

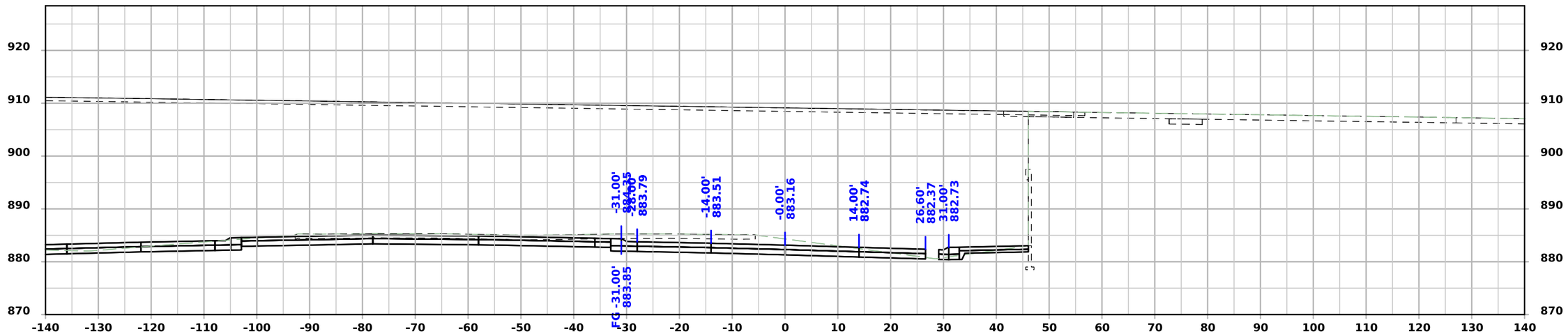
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V2

US 6 / Hickman Road WB - Final Condition



STA 1676+50.00



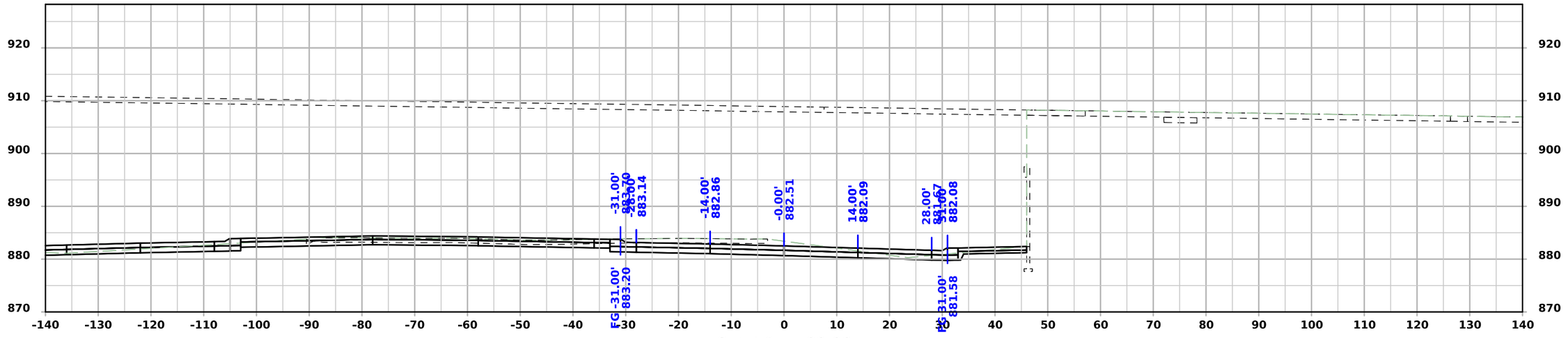
STA 1676+27.35

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER W.422	

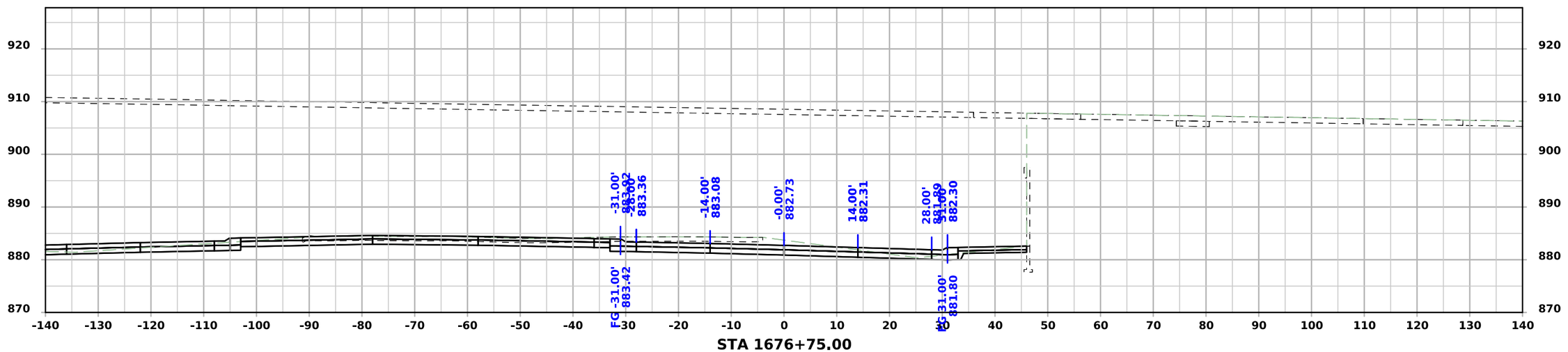
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V2

US 6 / Hickman Road WB - Final Condition



STA 1677+00.00



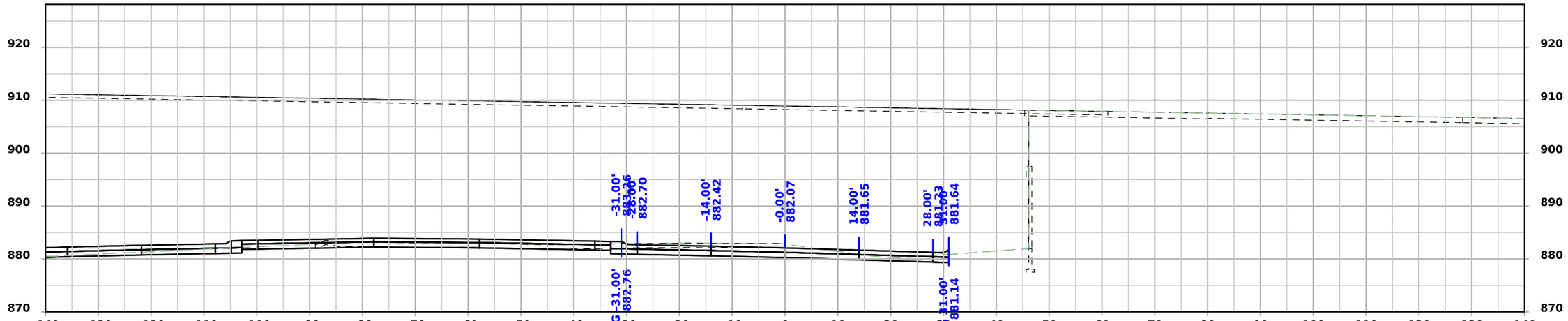
STA 1676+75.00

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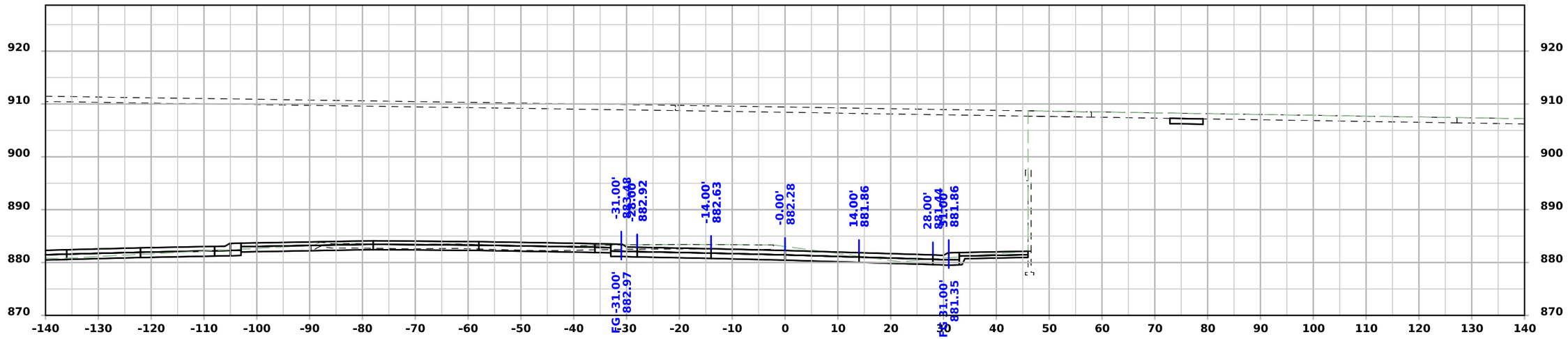
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V2

US 6 / Hickman Road WB - Final Condition



STA 1677+48.75



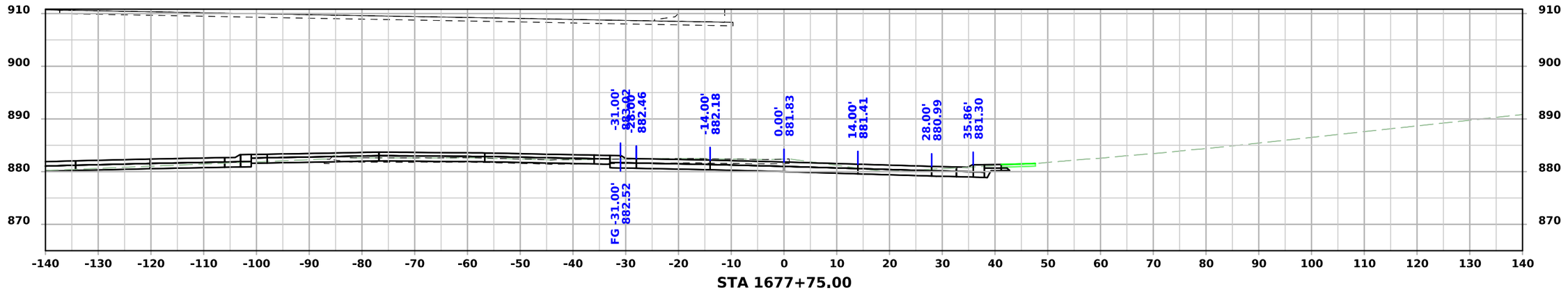
STA 1677+25.00

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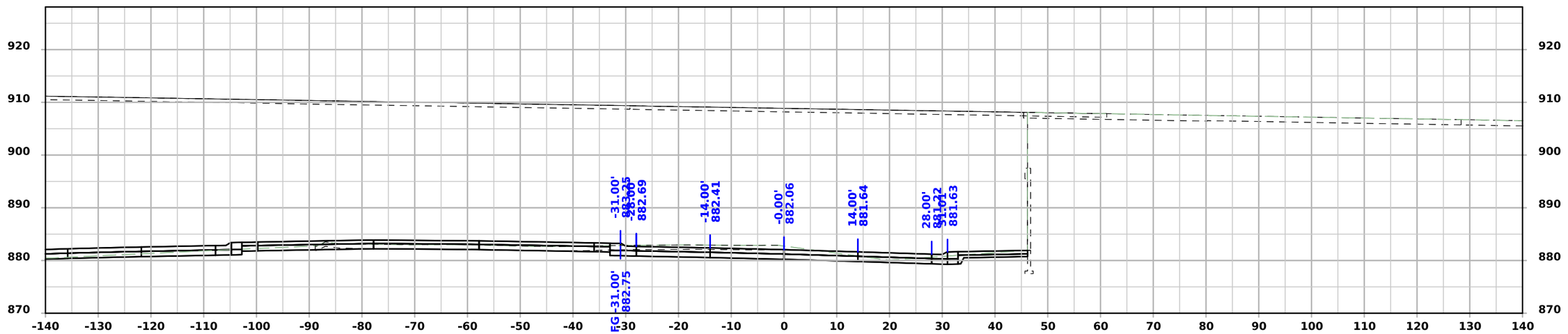
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V2

US 6 / Hickman Road WB - Final Condition



STA 1677+75.00



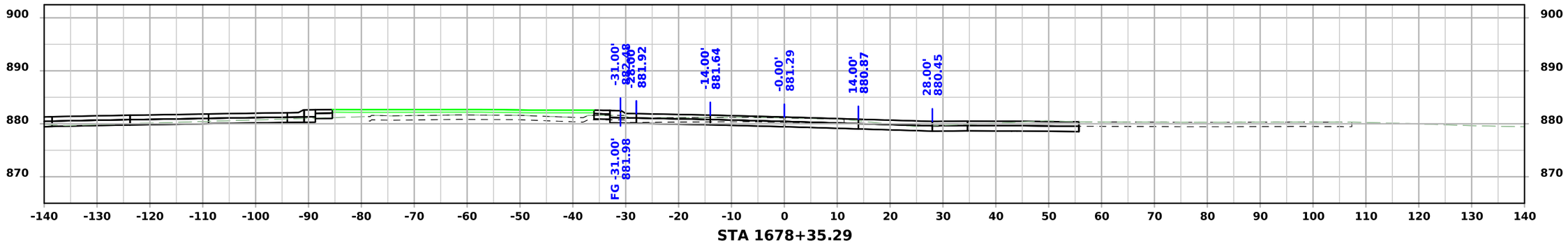
STA 1677+50.00

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER W.425	

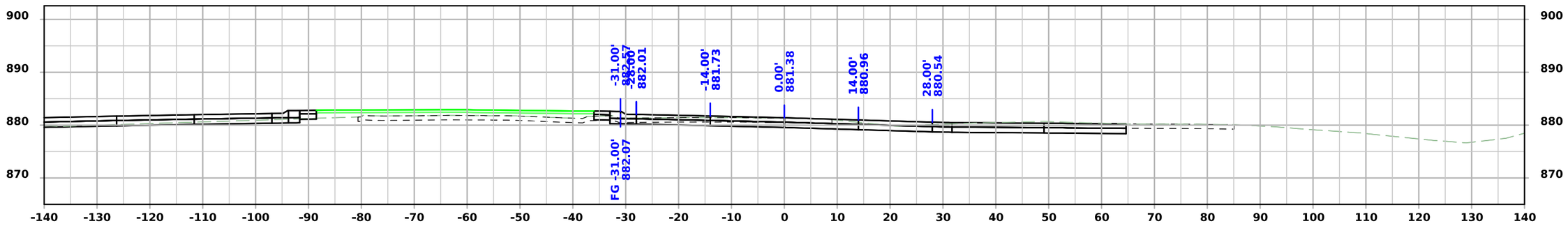
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V2

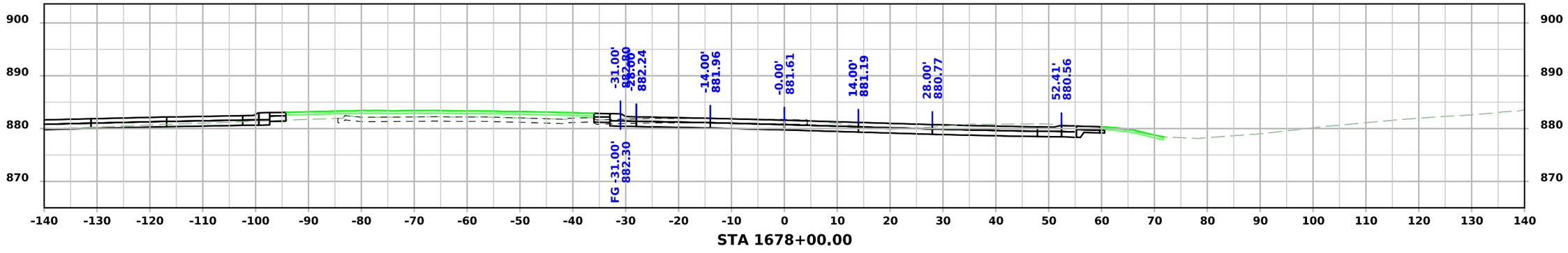
US 6 / Hickman Road WB - Final Condition



STA 1678+35.29



STA 1678+25.00



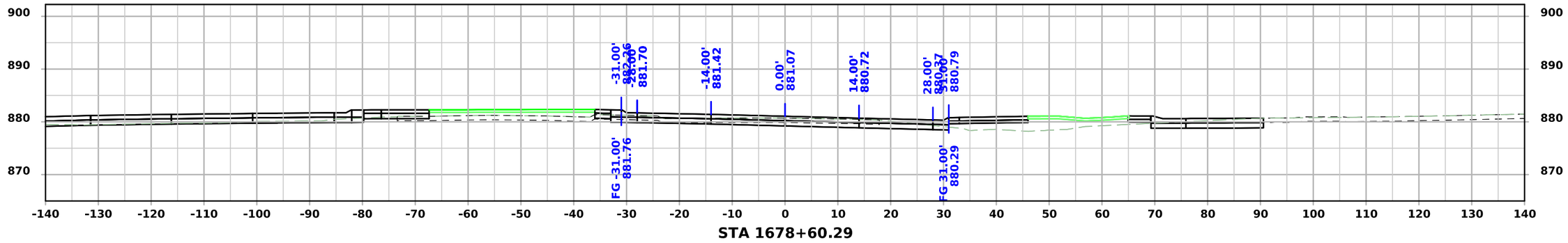
STA 1678+00.00

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER W.426

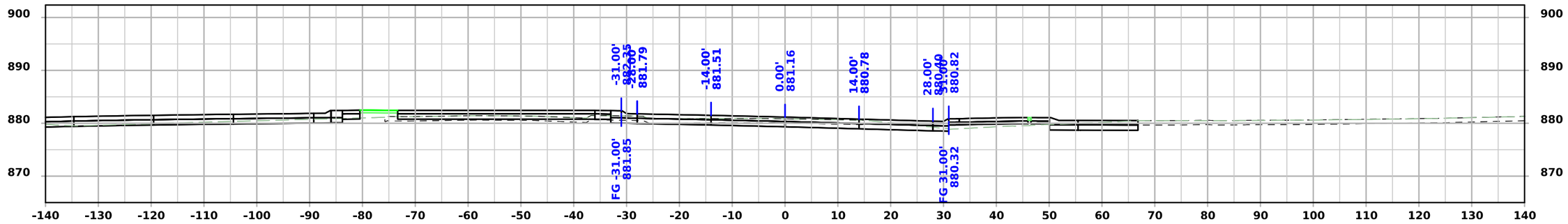
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V2

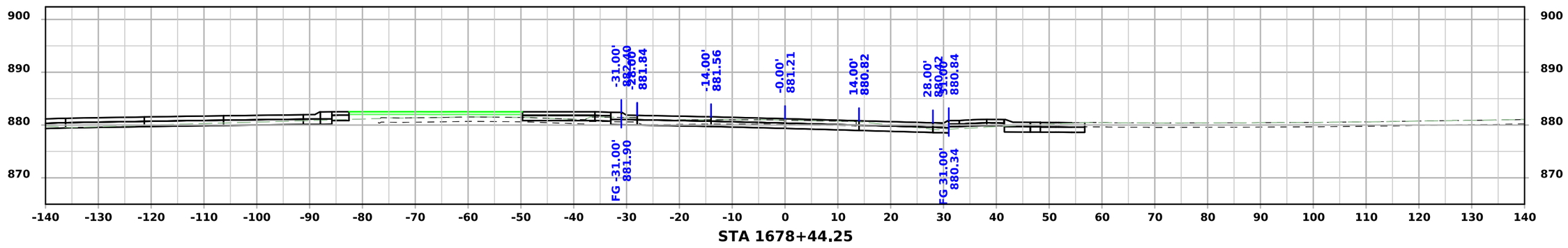
US 6 / Hickman Road WB - Final Condition



STA 1678+60.29



STA 1678+50.00



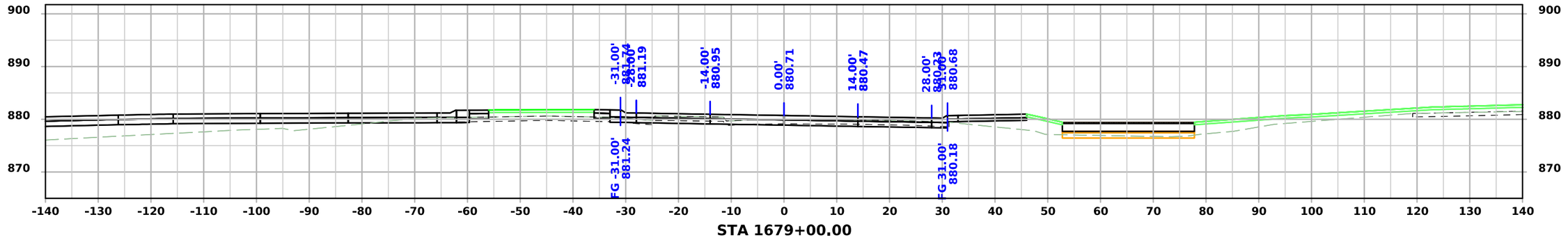
STA 1678+44.25

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER W.427

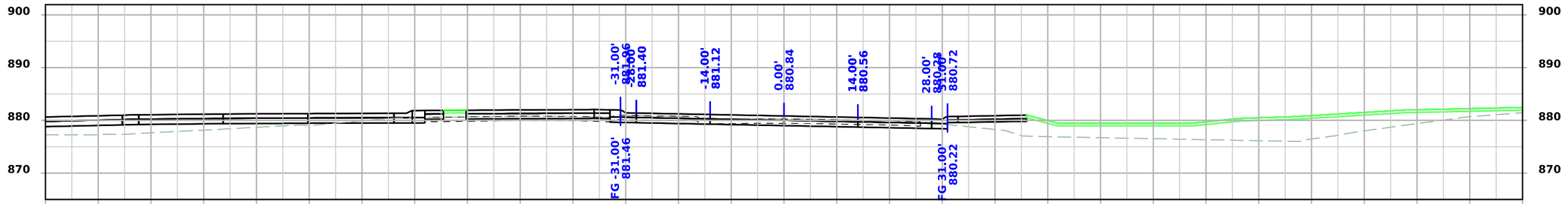
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V2

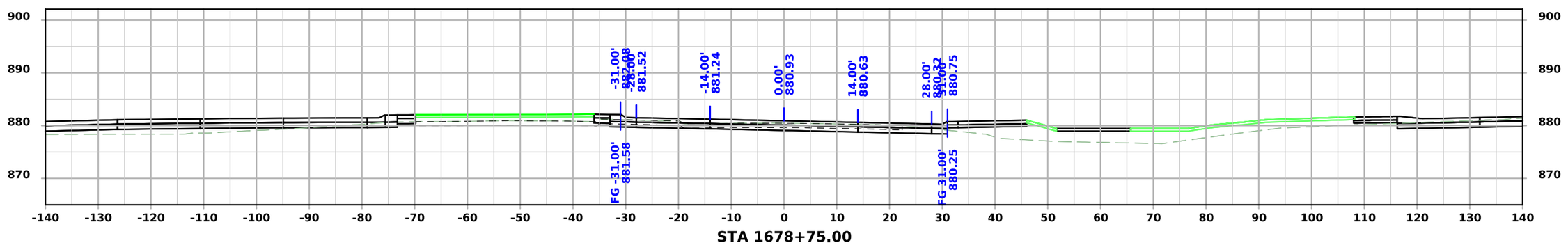
US 6 / Hickman Road WB - Final Condition



STA 1679+00.00



STA 1678+85.29



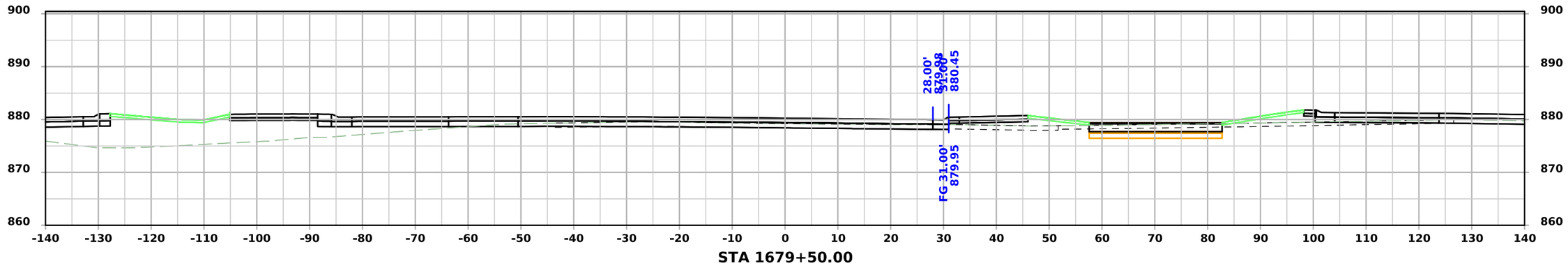
STA 1678+75.00

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER W.428

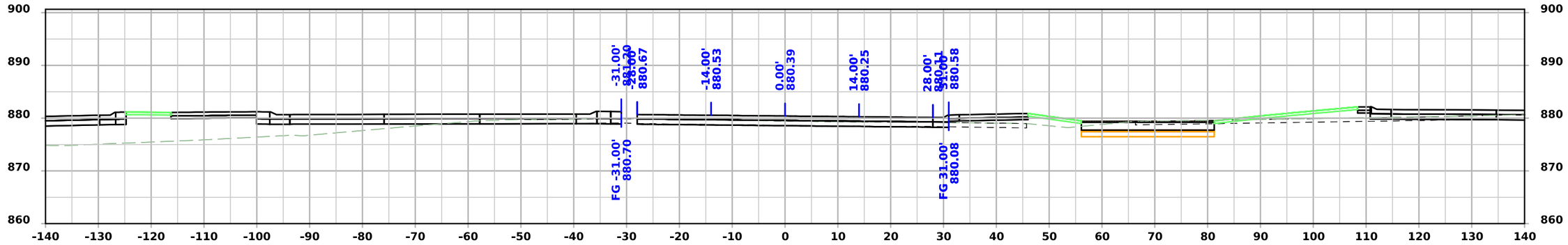
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V2

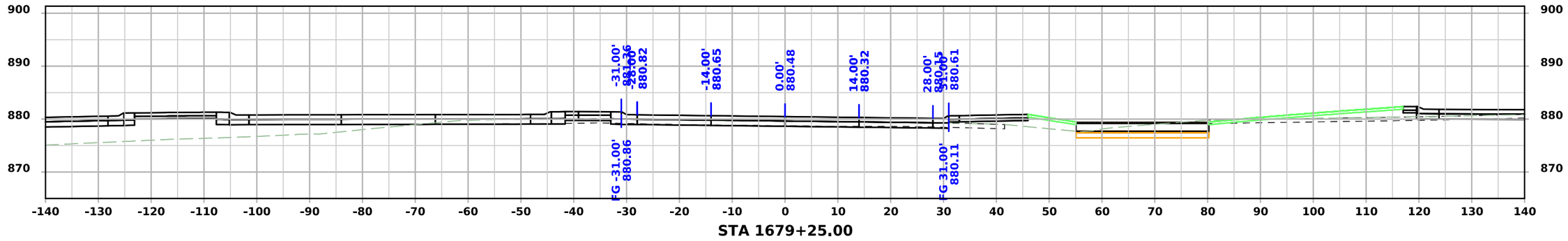
US 6 / Hickman Road WB - Final Condition



STA 1679+50.00



STA 1679+35.29



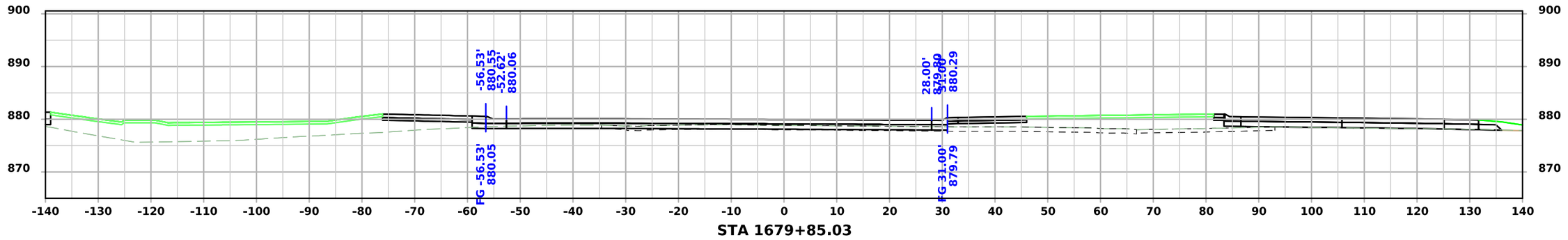
STA 1679+25.00

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER W.429

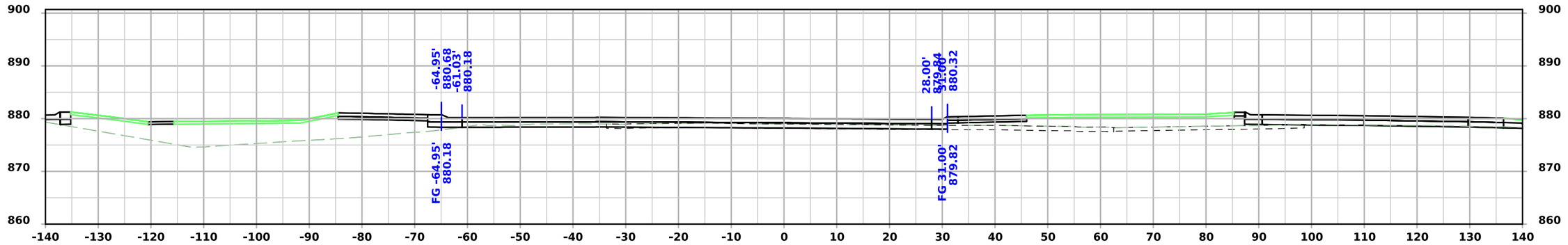
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V2

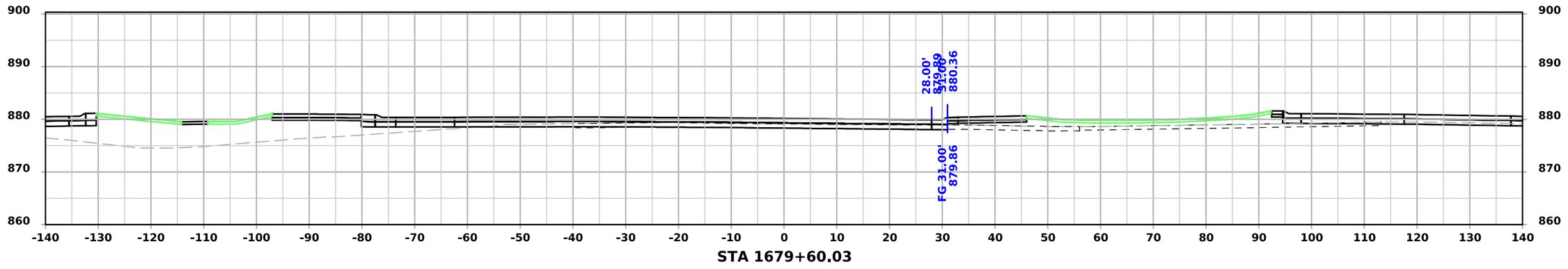
US 6 / Hickman Road WB - Final Condition



STA 1679+85.03



STA 1679+75.00



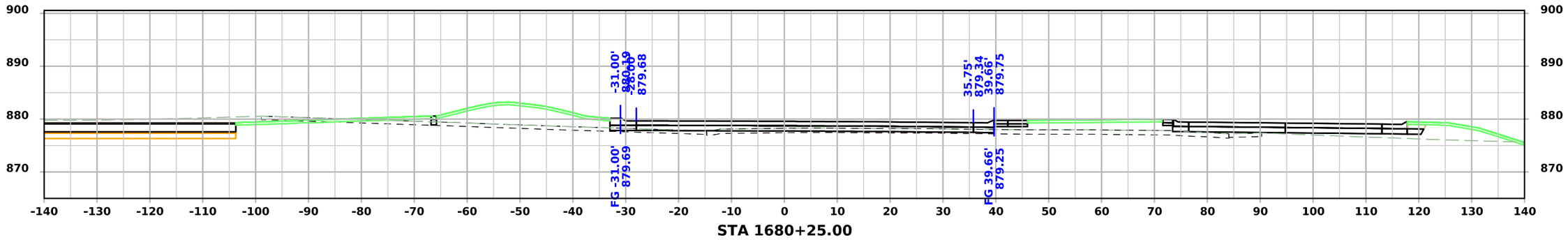
STA 1679+60.03

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER W.430

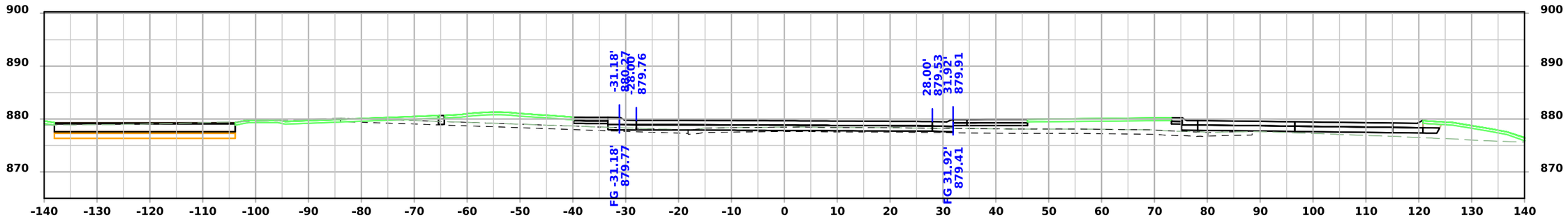
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V2

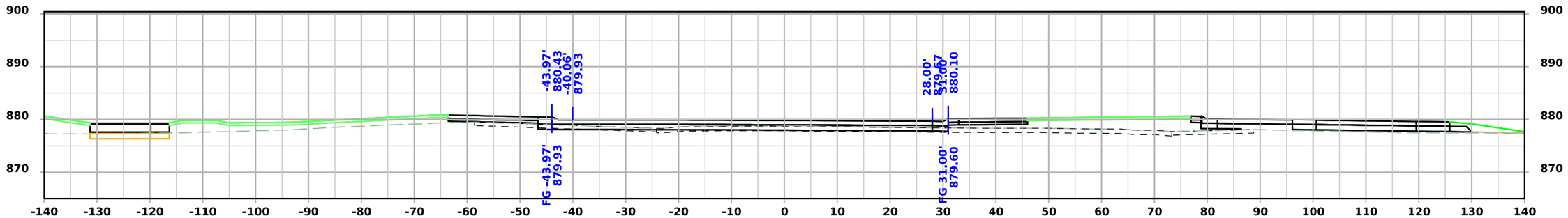
US 6 / Hickman Road WB - Final Condition



STA 1680+25.00



STA 1680+15.77



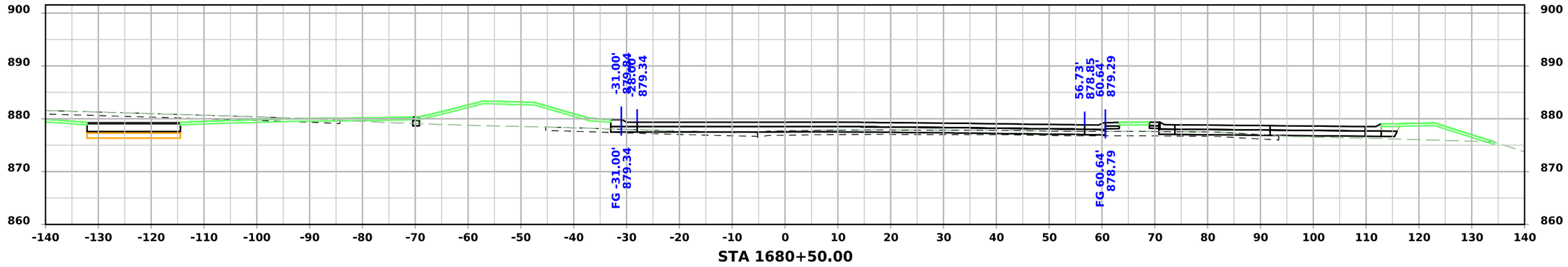
STA 1680+00.00

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER W.431

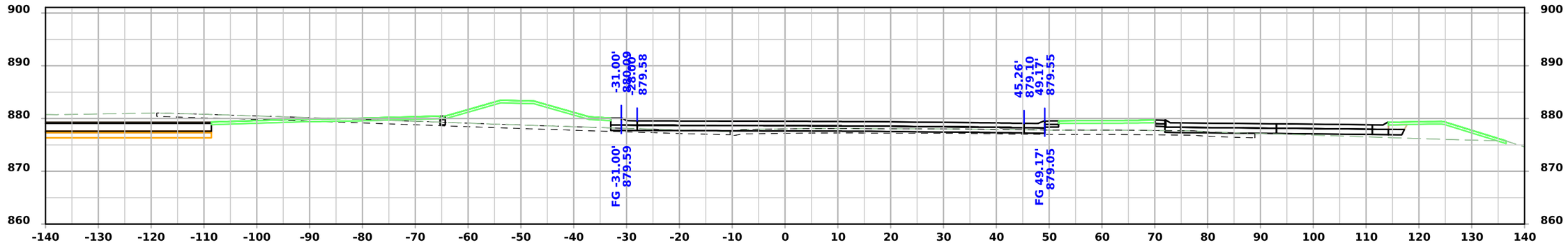
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V2

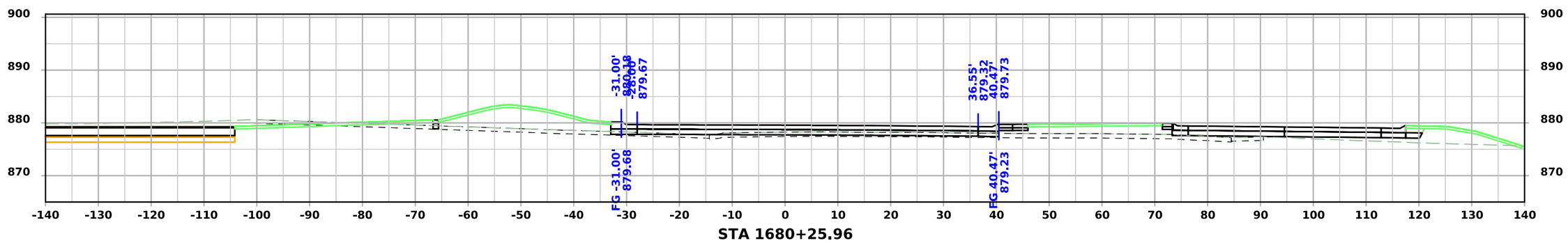
US 6 / Hickman Road WB - Final Condition



STA 1680+50.00



STA 1680+36.33



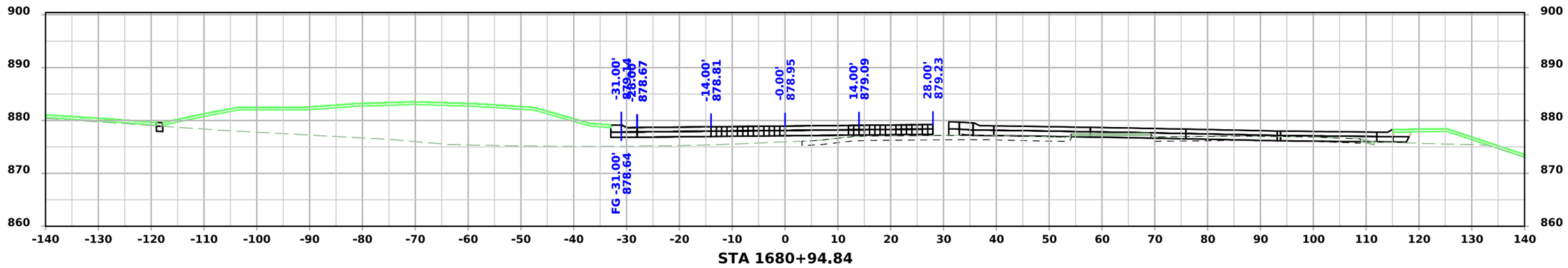
STA 1680+25.96

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER W.432

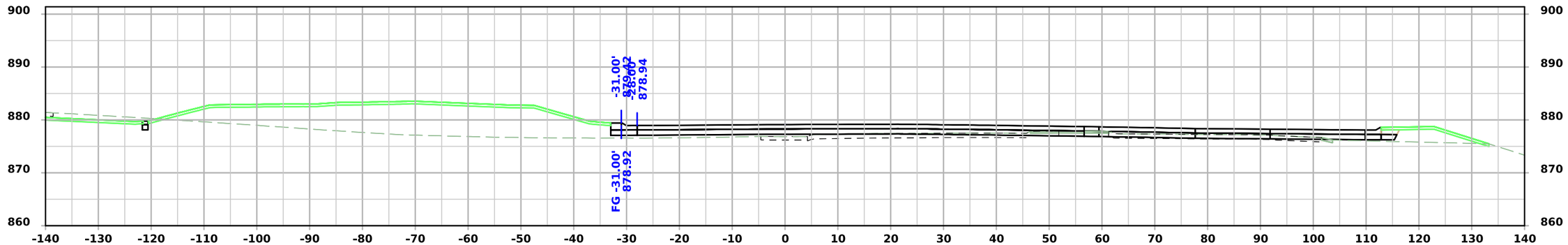
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V2

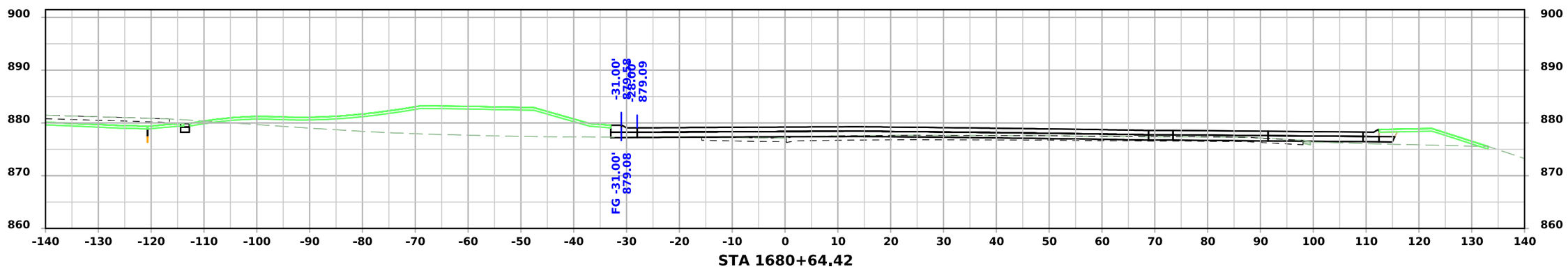
US 6 / Hickman Road WB - Final Condition



STA 1680+94.84



STA 1680+75.00



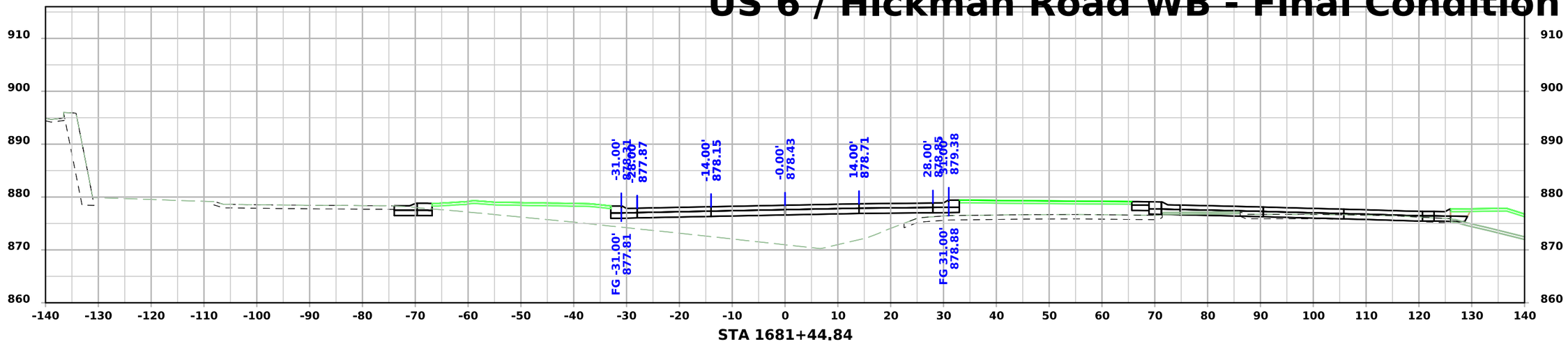
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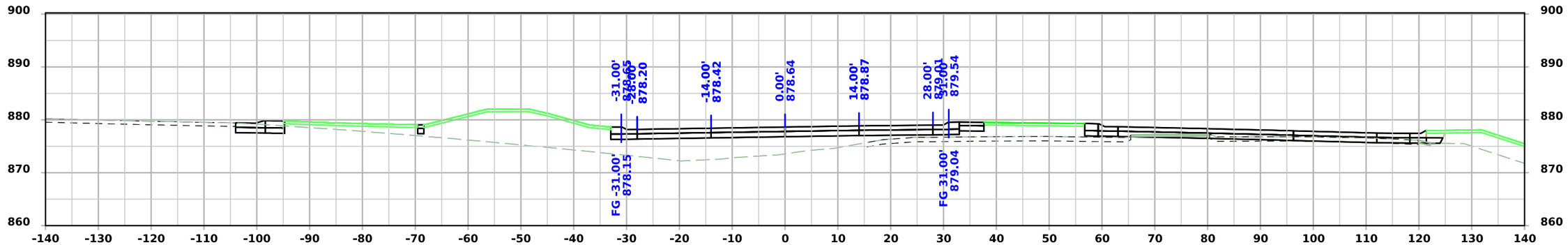
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V2

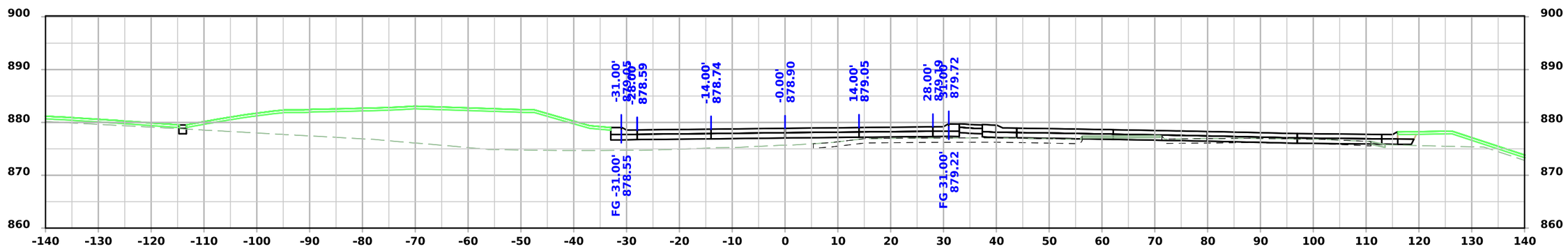
US 6 / Hickman Road WB - Final Condition



STA 1681+44.84



STA 1681+25.00



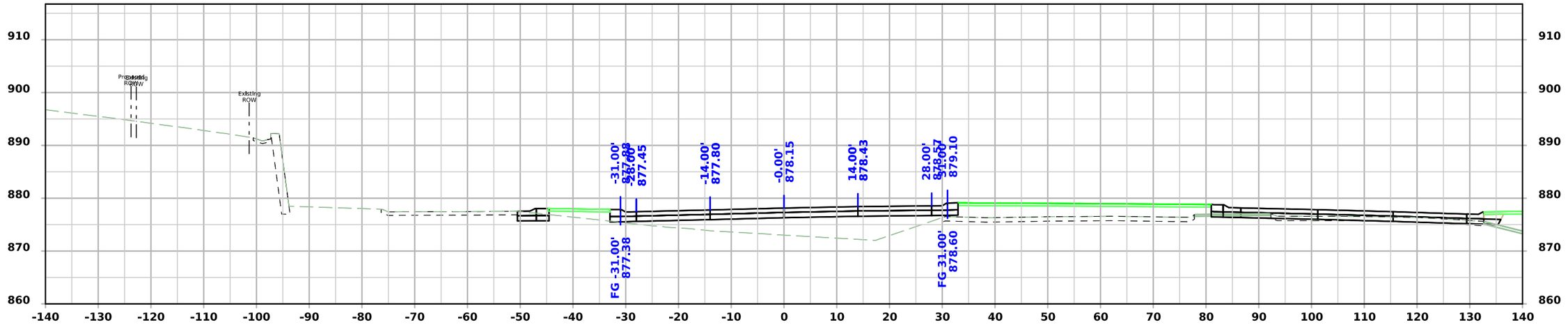
STA 1681+00.00

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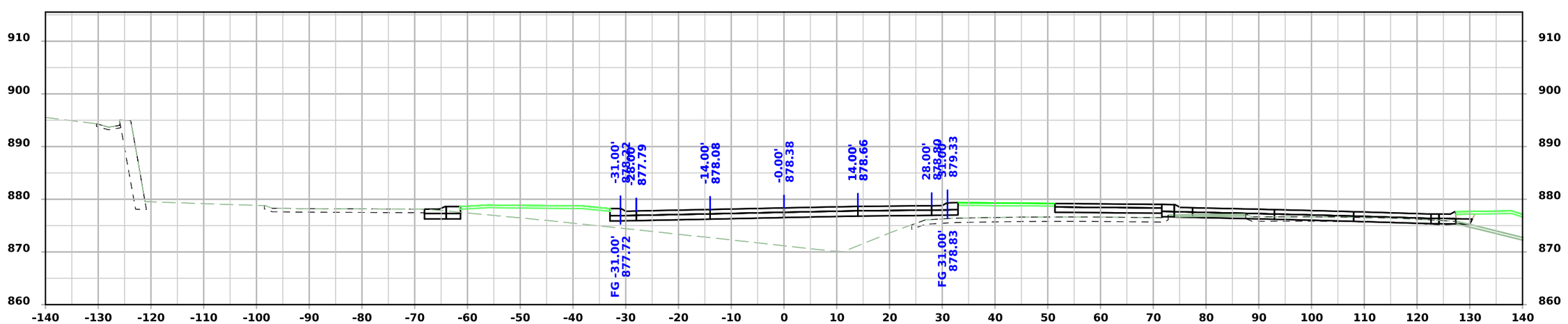
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V2

US 6 / Hickman Road WB - Final Condition



STA 1681+69.84



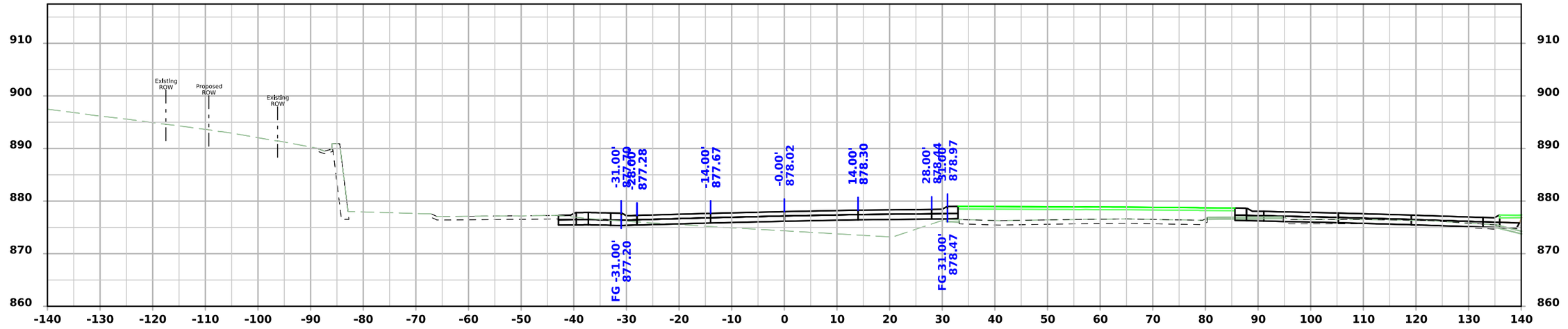
STA 1681+50.00

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER W.435

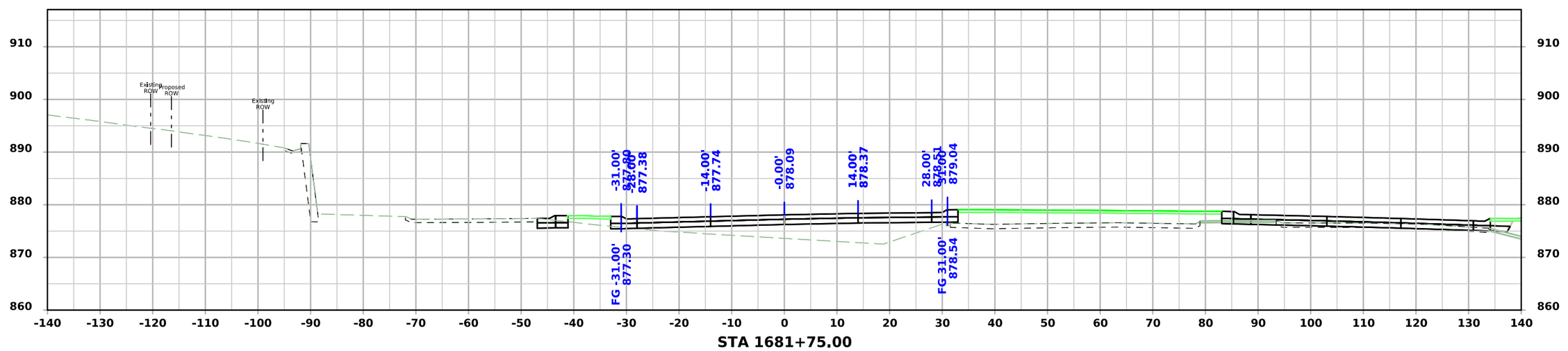
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V2

US 6 / Hickman Road WB - Final Condition



STA 1681+81.45



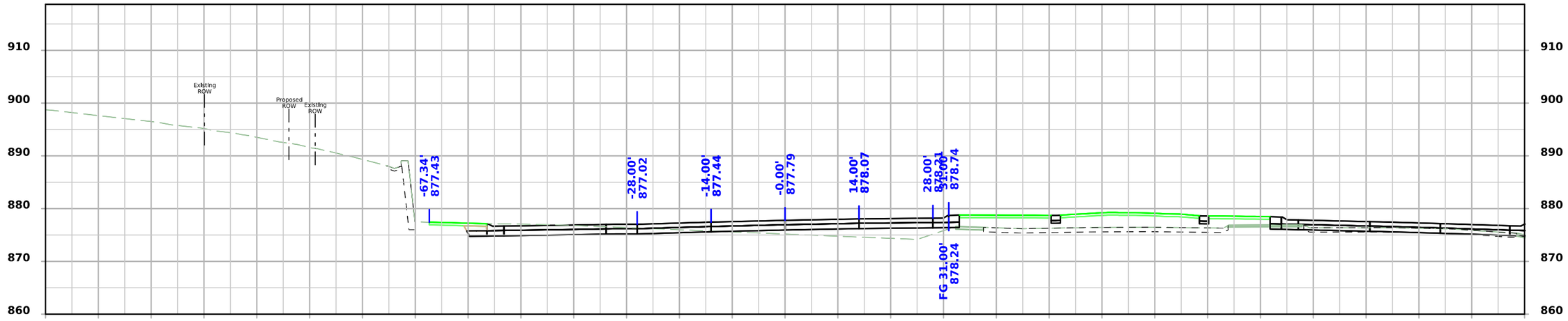
STA 1681+75.00

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER W.436

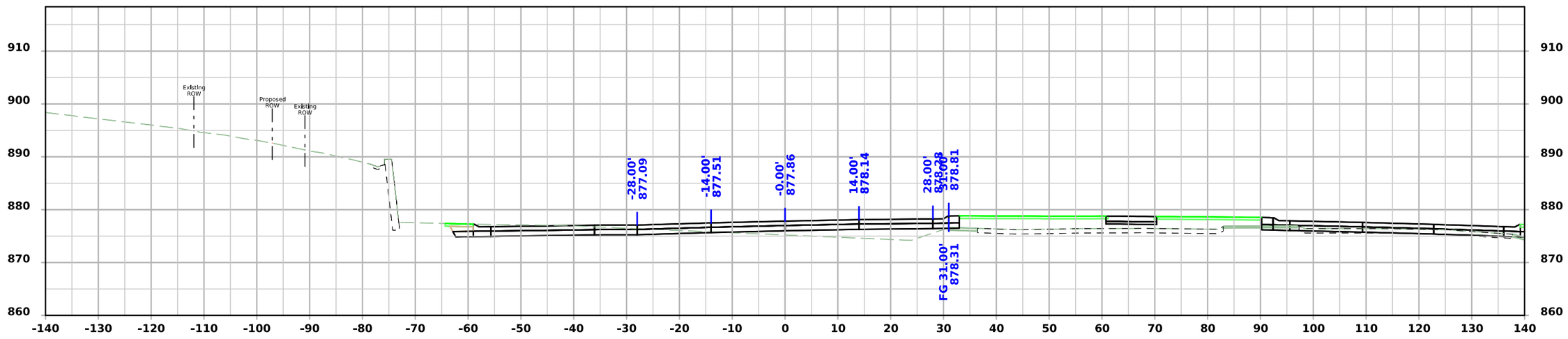
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V2

US 6 / Hickman Road WB - Final Condition



STA 1682+00.00



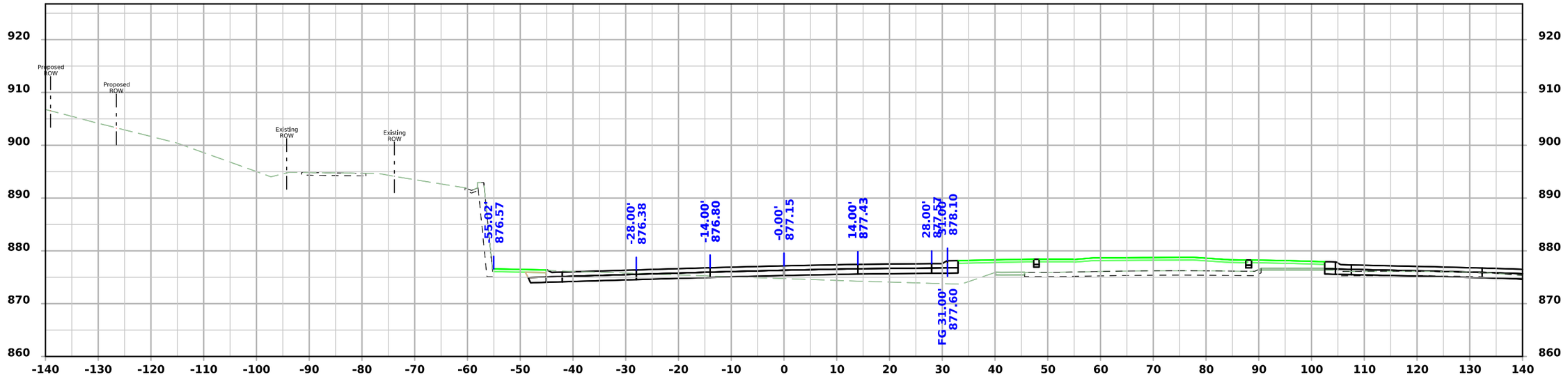
STA 1681+94.84

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER W.437

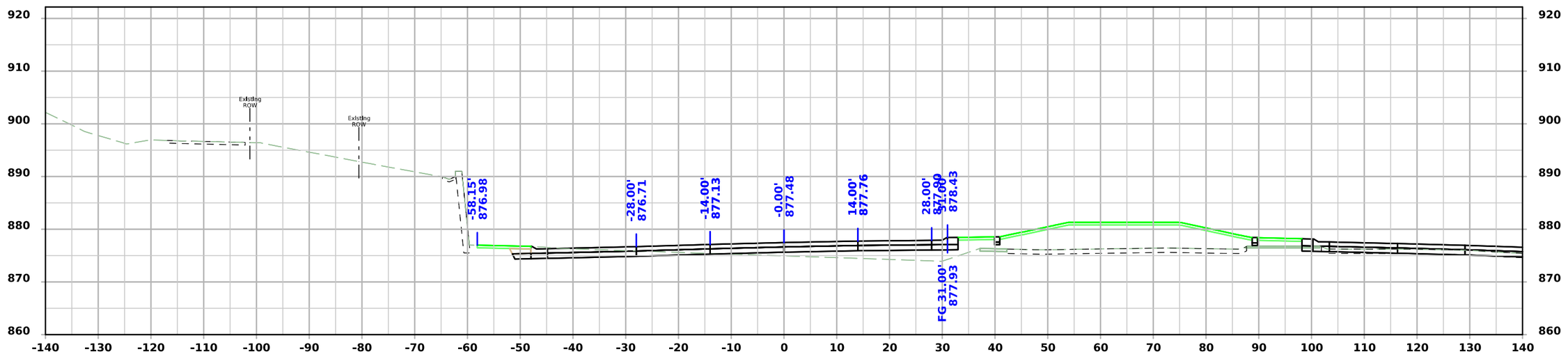
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V2

US 6 / Hickman Road WB - Final Condition



STA 1682+50.00



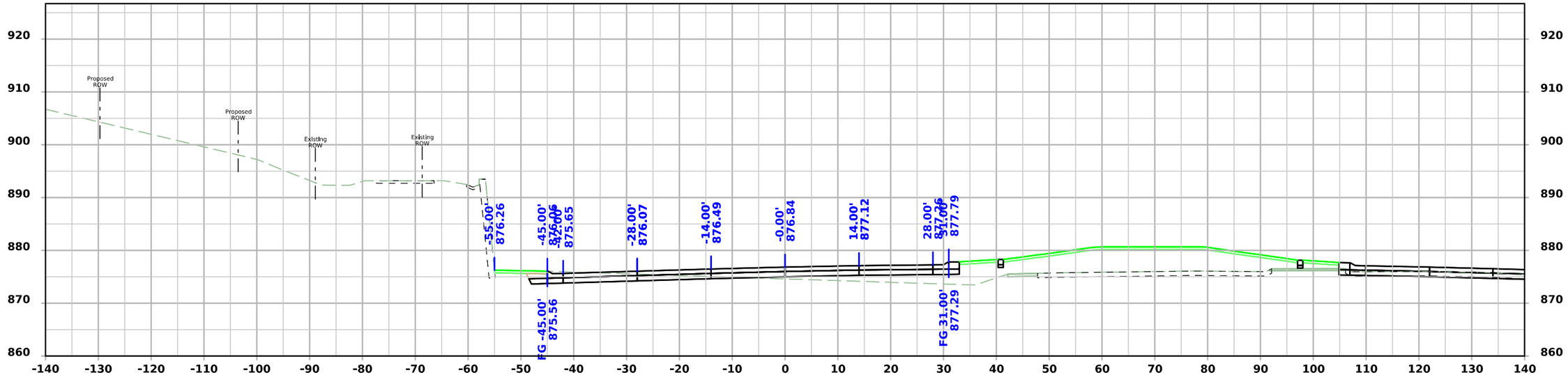
STA 1682+25.00

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER W.438

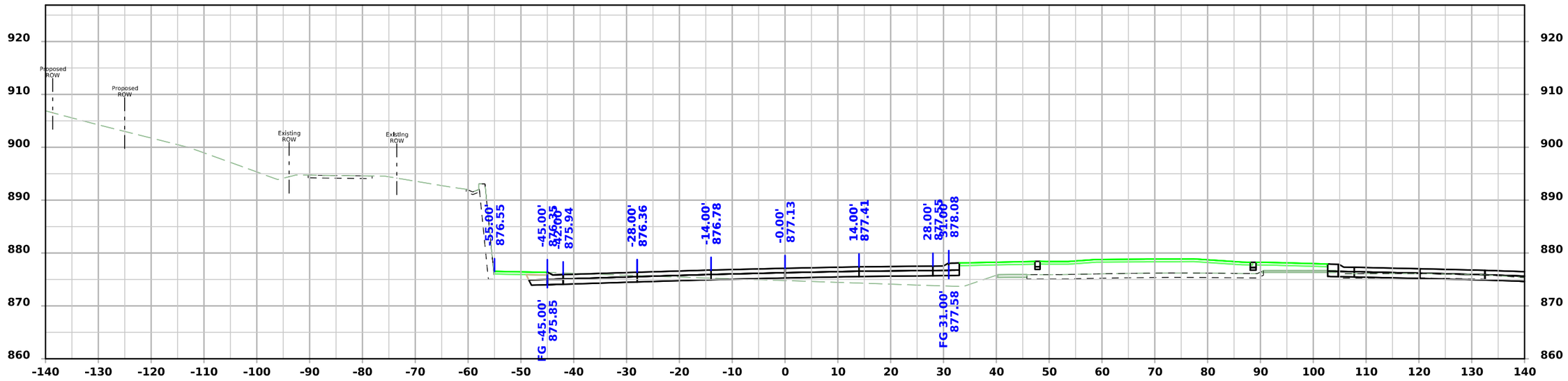
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V2

US 6 / Hickman Road WB - Final Condition



STA 1682+75.00



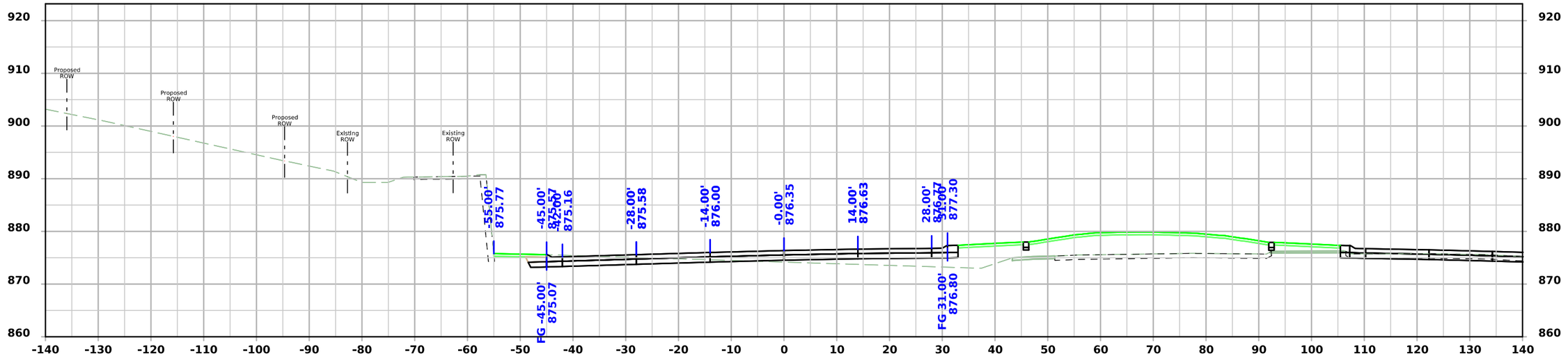
STA 1682+51.57

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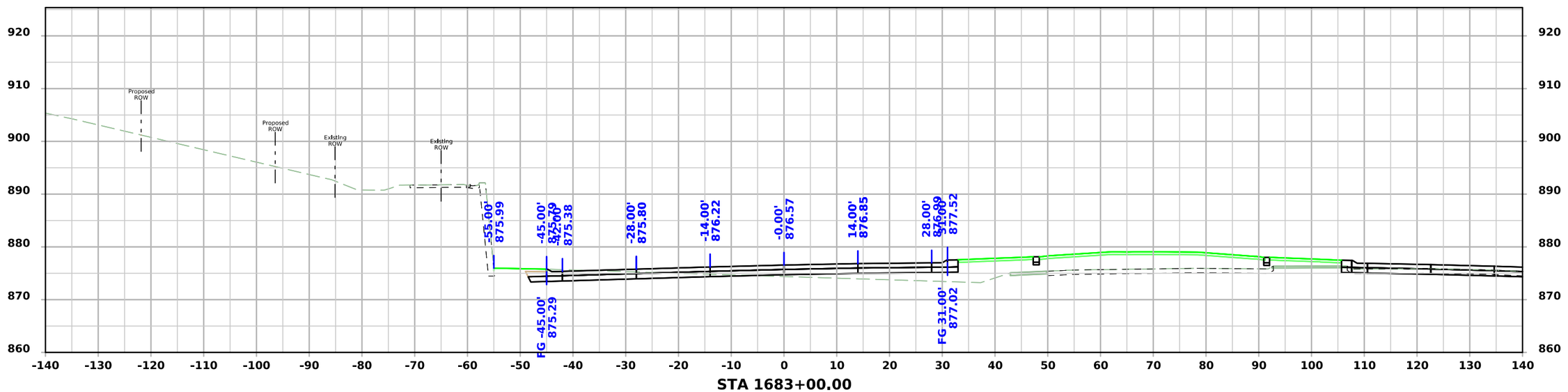
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V2

US 6 / Hickman Road WB - Final Condition



STA 1683+25.00



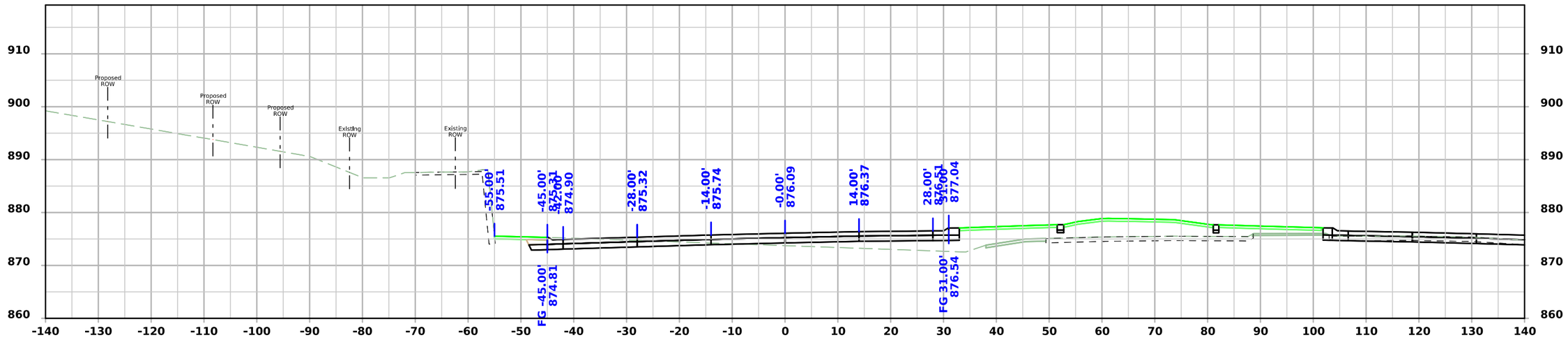
STA 1683+00.00

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER W.440

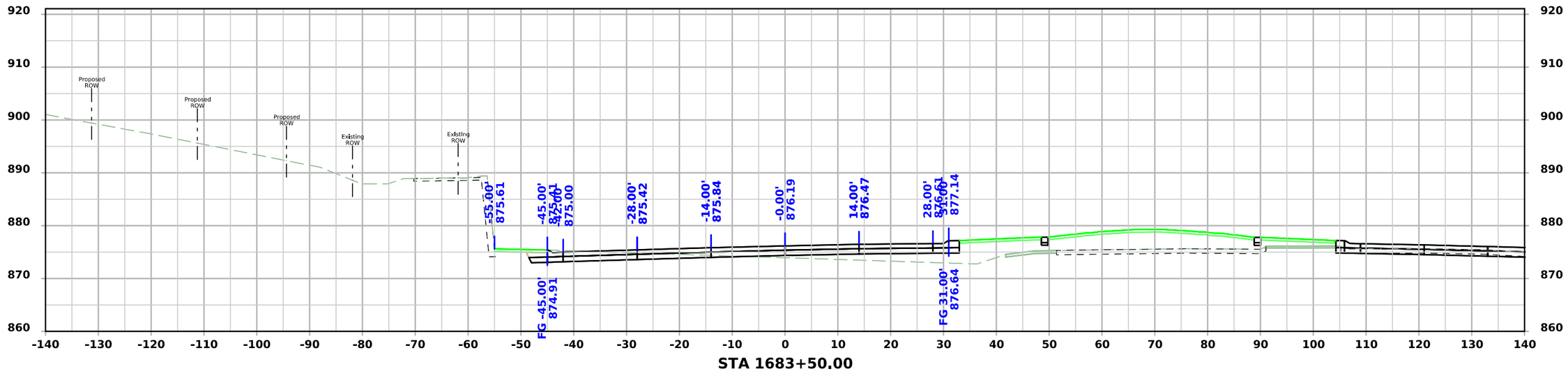
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V2

US 6 / Hickman Road WB - Final Condition



STA 1683+75.00



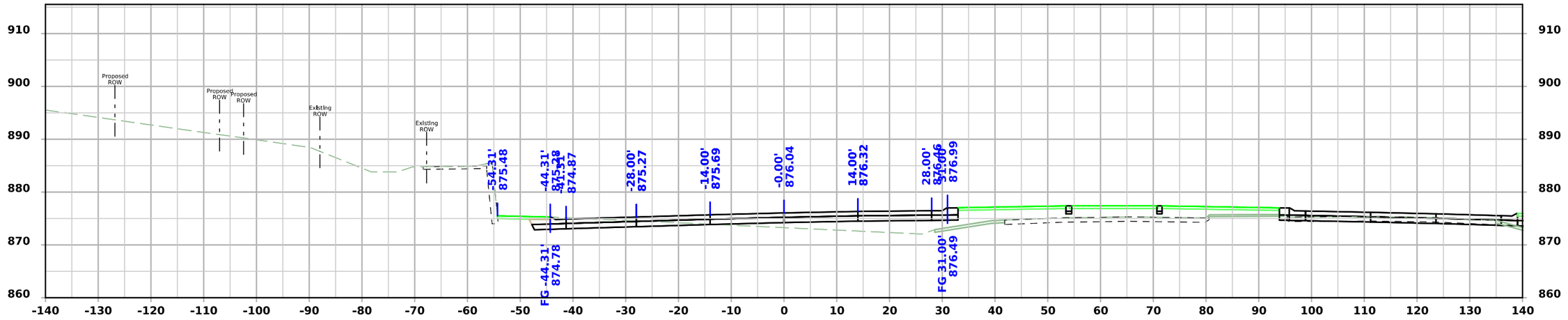
STA 1683+50.00

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER W.441

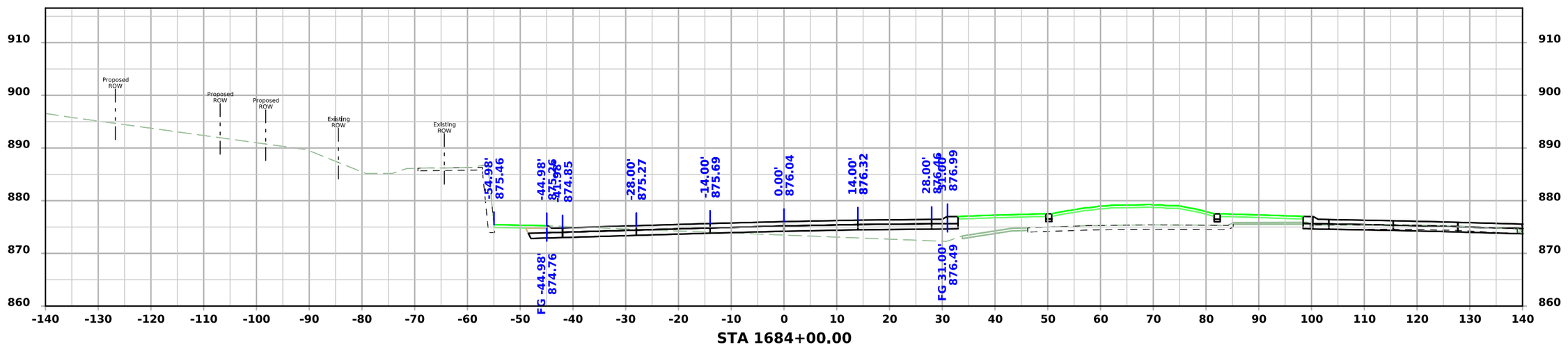
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V2

US 6 / Hickman Road WB - Final Condition



STA 1684+25.00



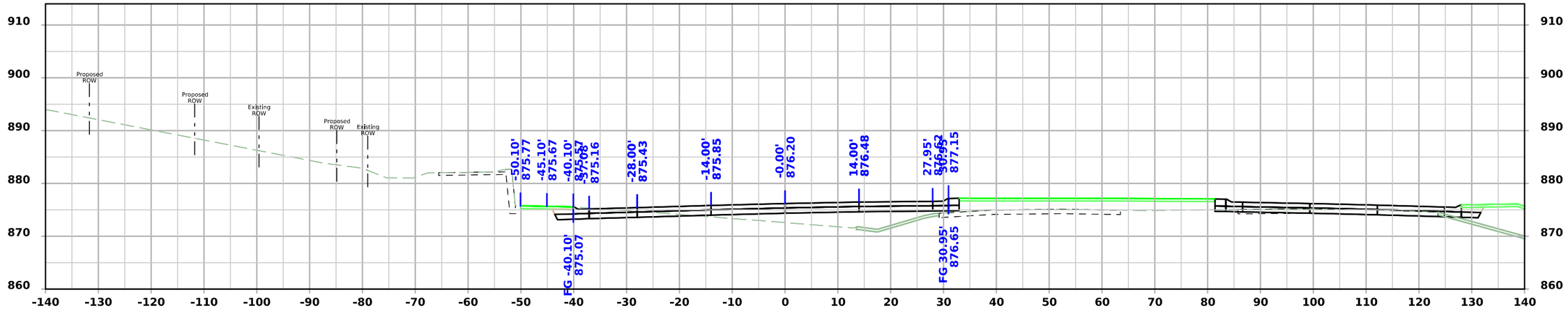
STA 1684+00.00

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER W.442

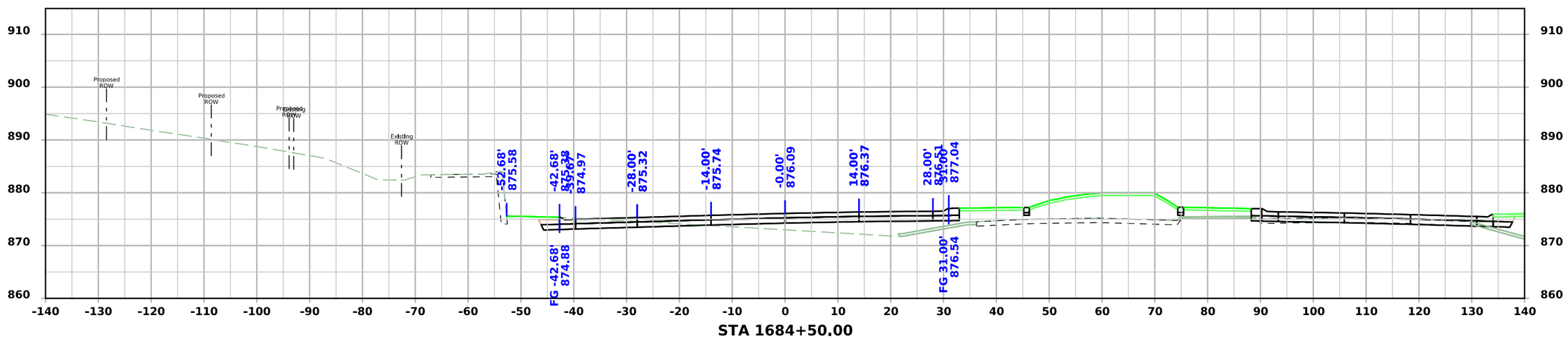
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V2

US 6 / Hickman Road WB - Final Condition



STA 1684+75.00



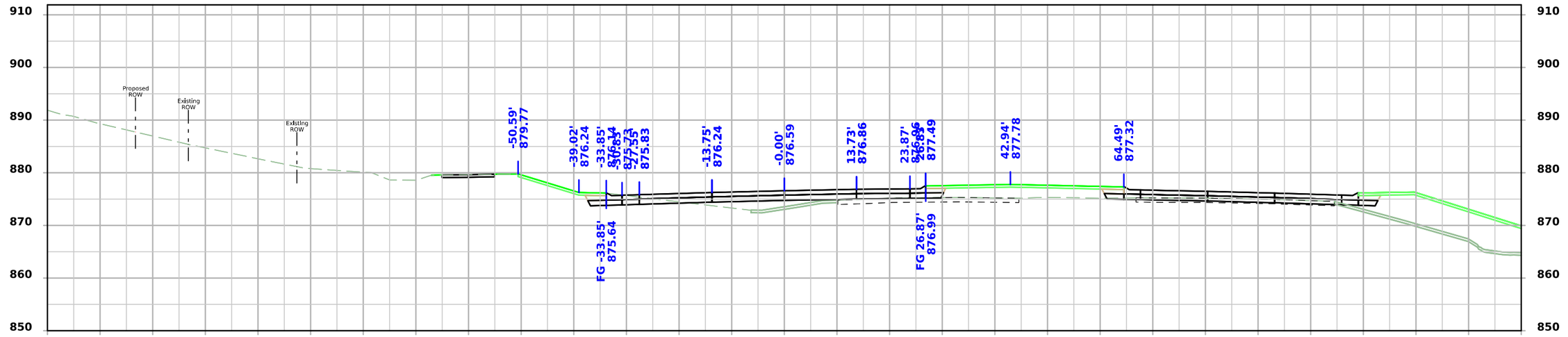
STA 1684+50.00

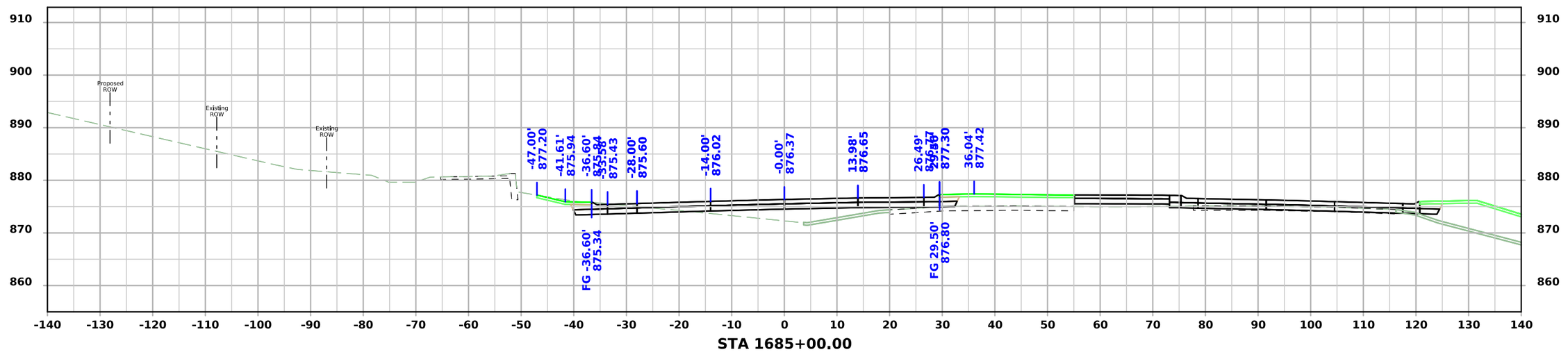
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V2

US 6 / Hickman Road WB - Final Condition



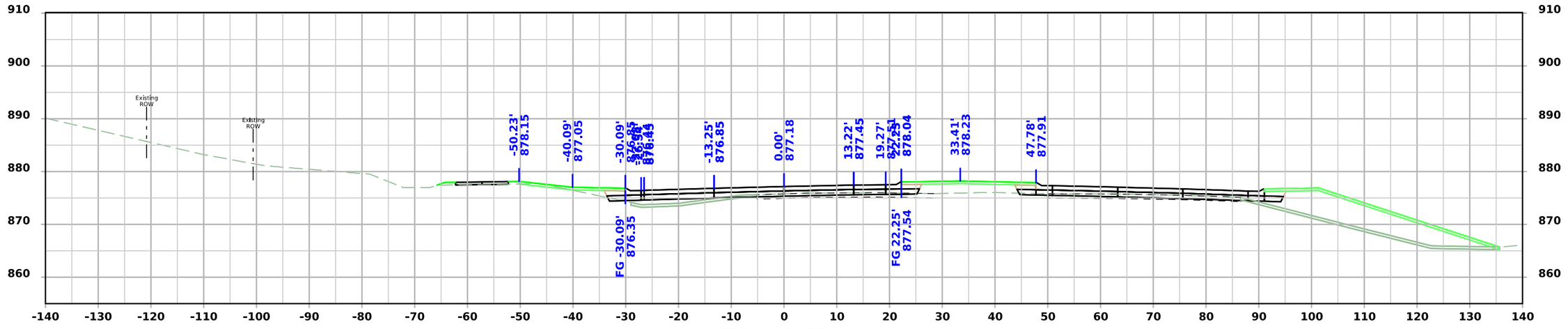


FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER W.444

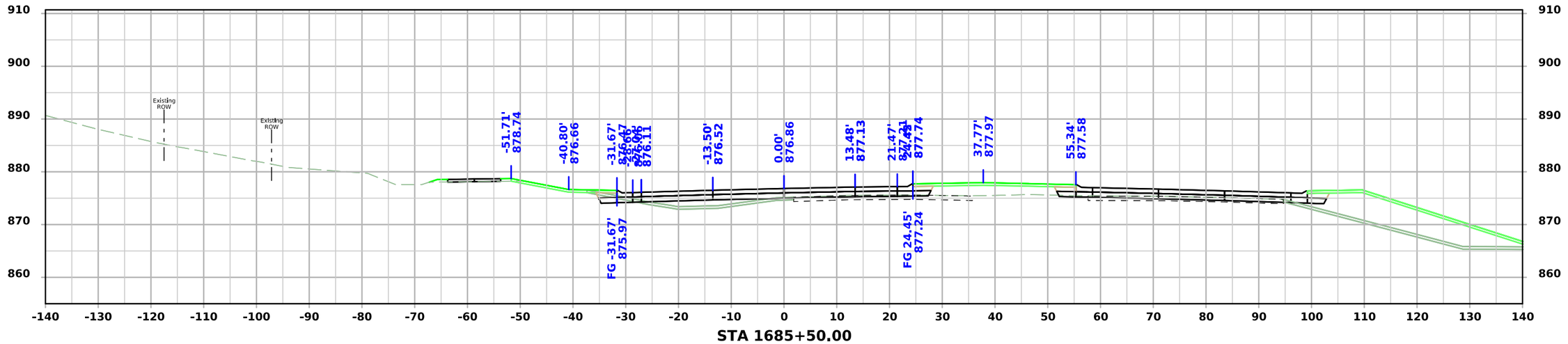
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V2

US 6 / Hickman Road WB - Final Condition



STA 1685+75.00



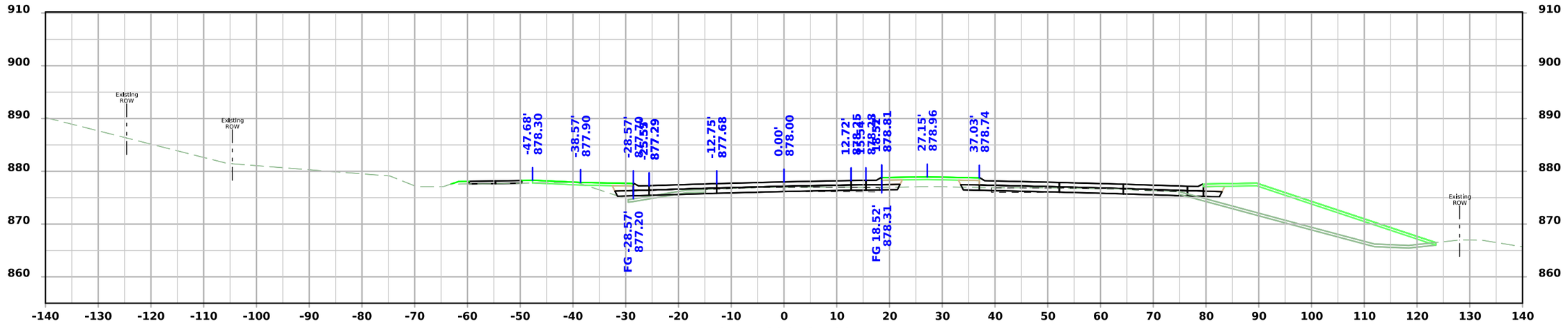
STA 1685+50.00

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER W.445

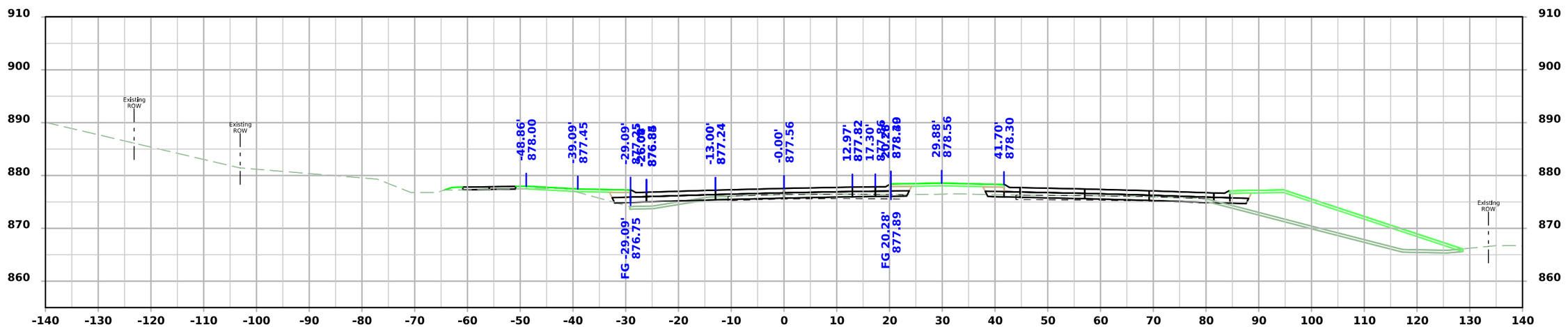
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V2

US 6 / Hickman Road WB - Final Condition



STA 1686+25.00



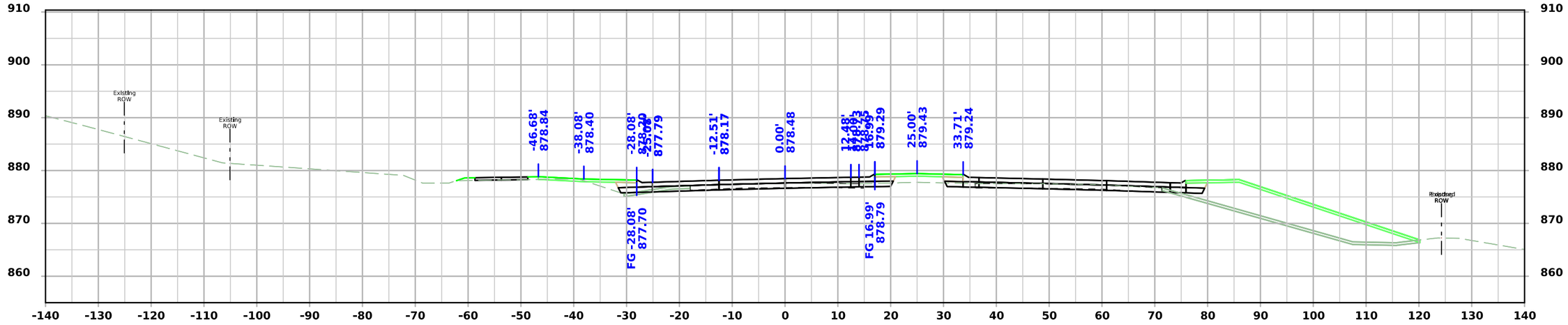
STA 1686+00.00

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER W.446

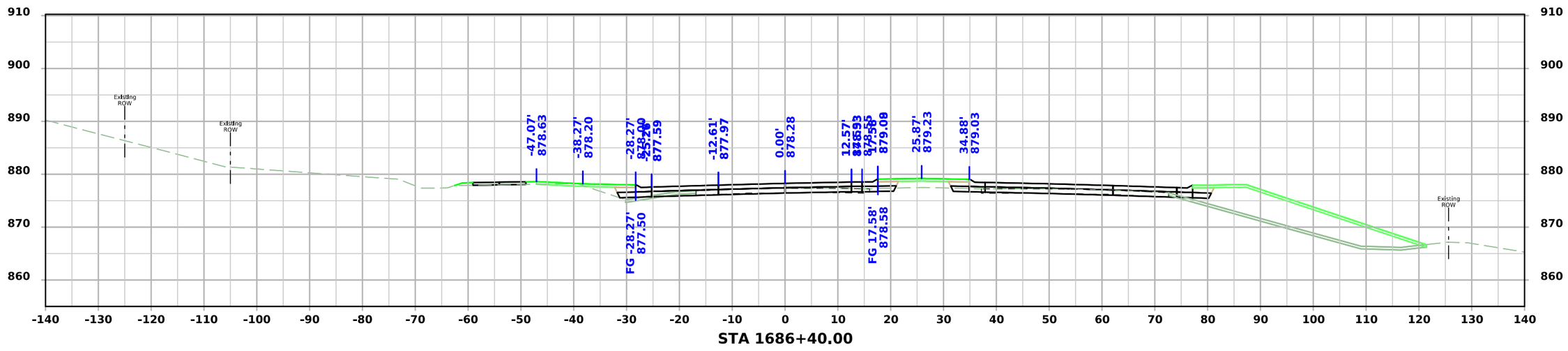
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V2

US 6 / Hickman Road WB - Final Condition



STA 1686+50.00



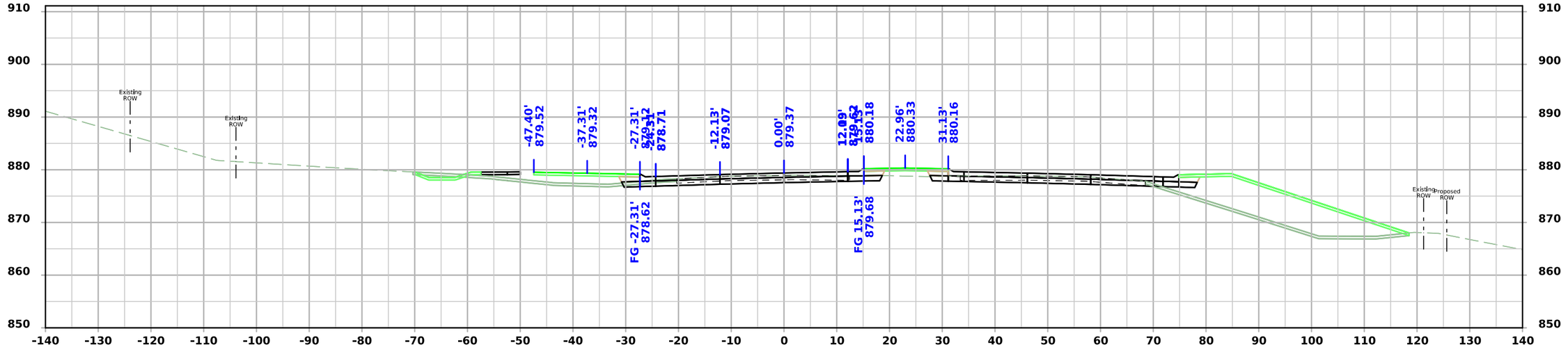
STA 1686+40.00

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER W.447

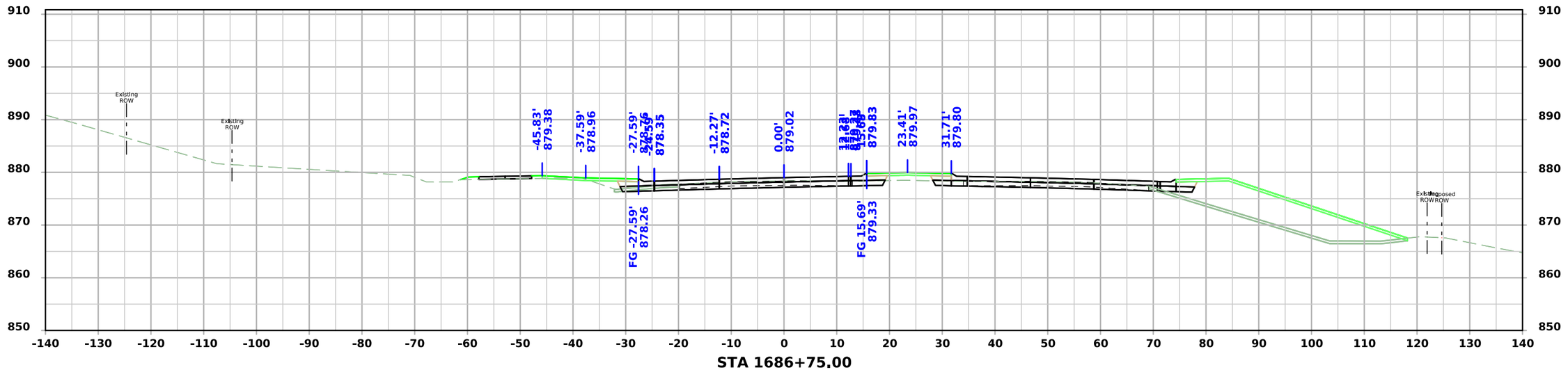
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V2

US 6 / Hickman Road WB - Final Condition



STA 1686+90.00



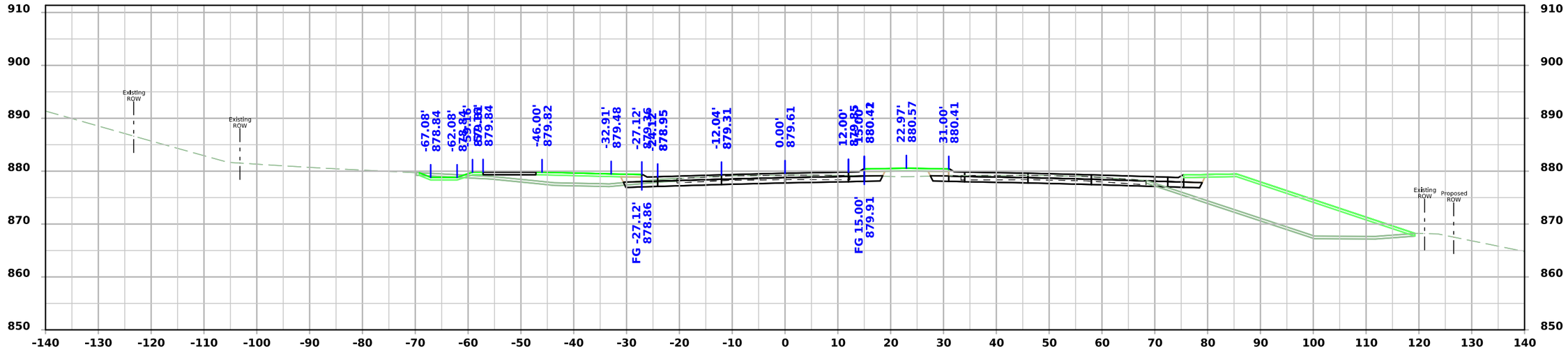
STA 1686+75.00

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER W.448

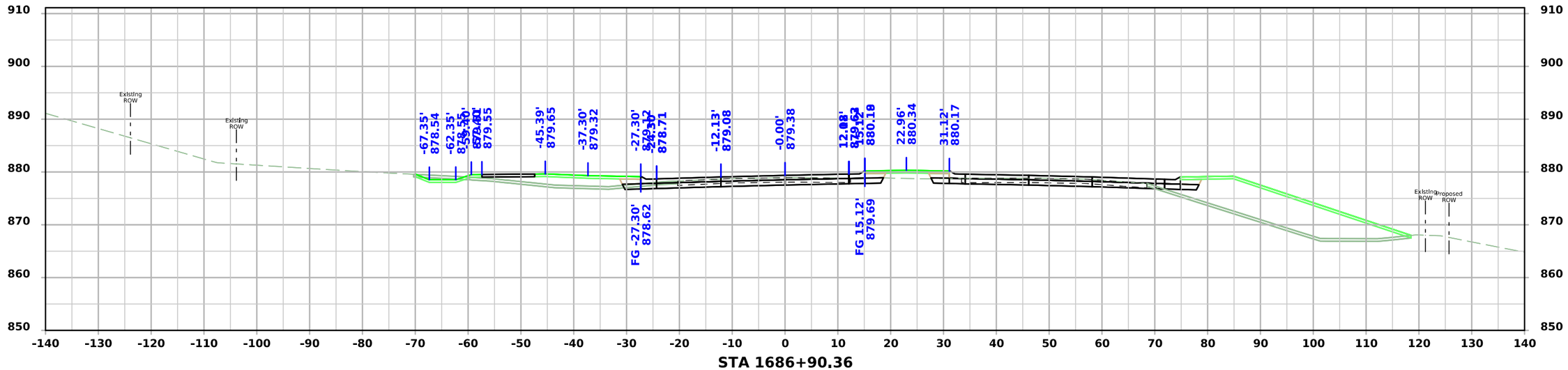
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V2

US 6 / Hickman Road WB - Final Condition



STA 1687+00.00



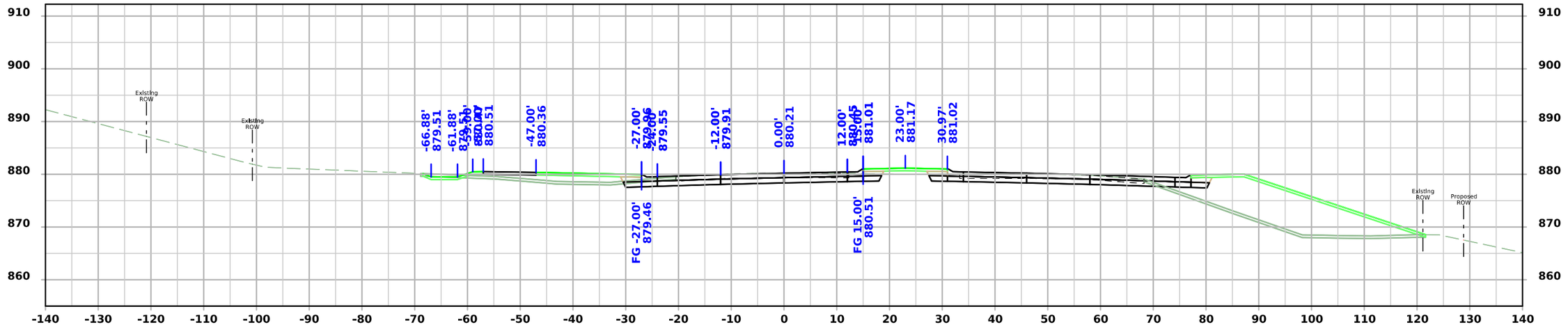
STA 1686+90.36

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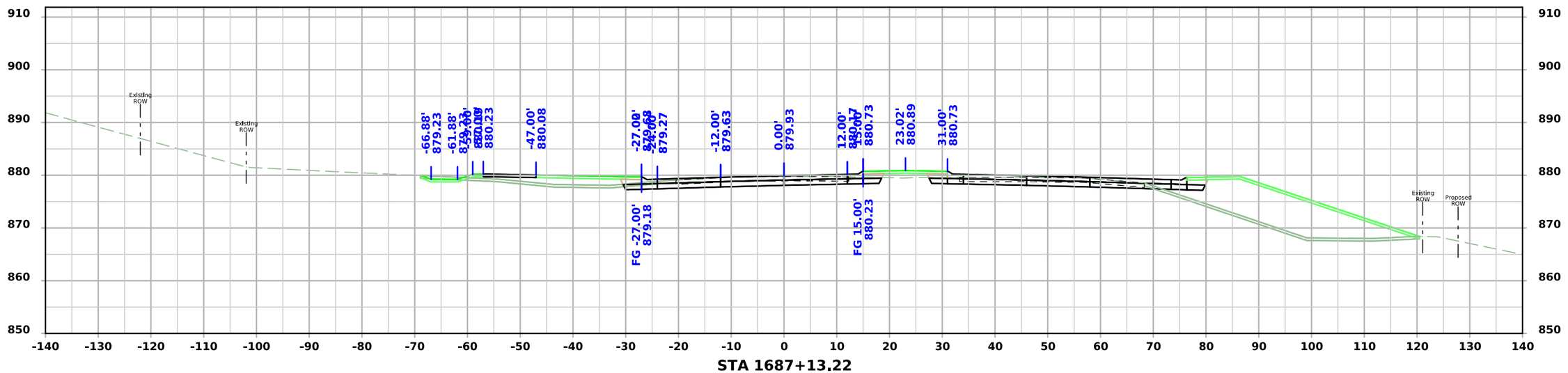
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V2

US 6 / Hickman Road WB - Final Condition



STA 1687+25.00



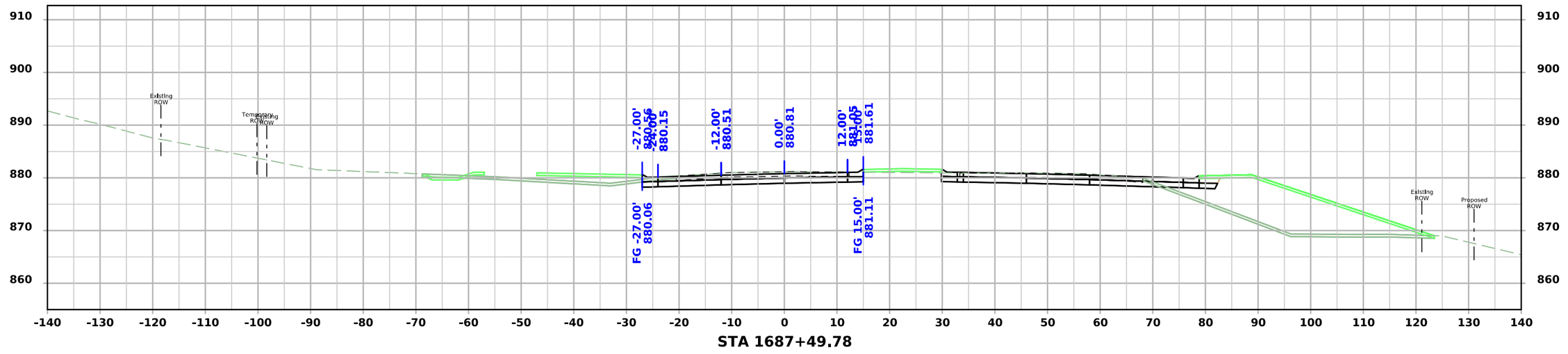
STA 1687+13.22

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V2

US 6 / Hickman Road WB - Final Condition



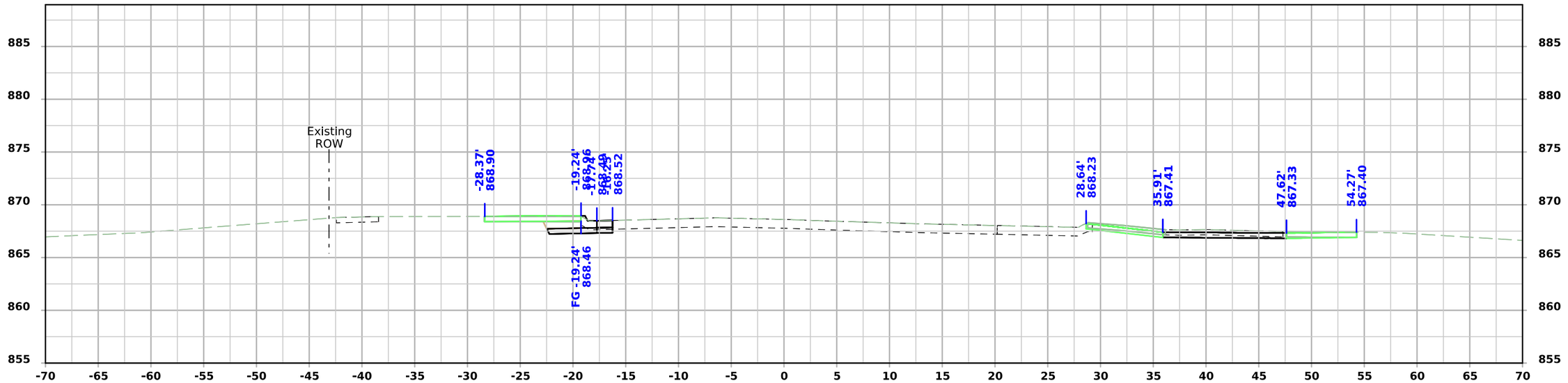
STA 1687+49.78

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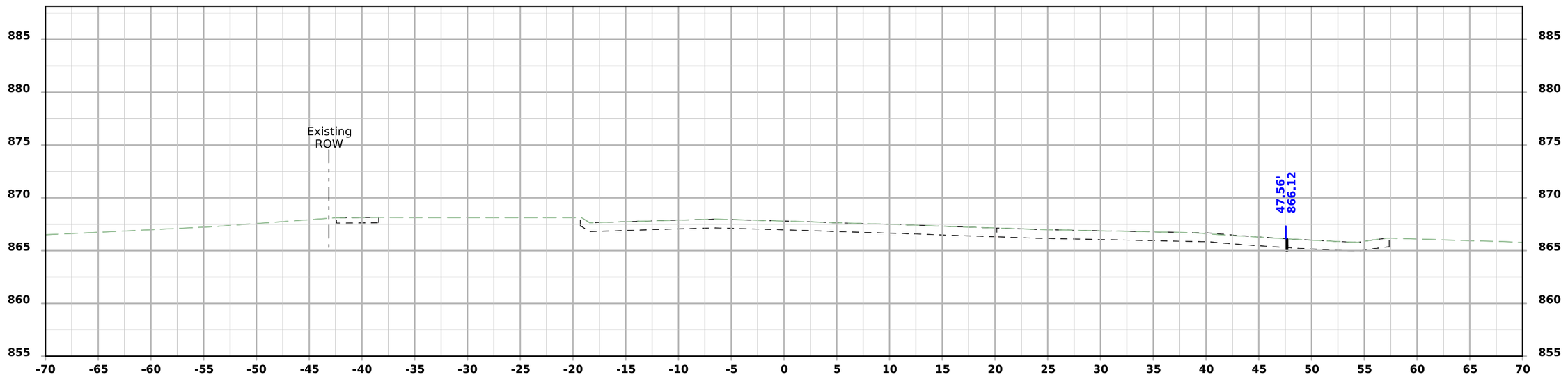
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V2

111th Street - Final Condition



STA 3686+25.00



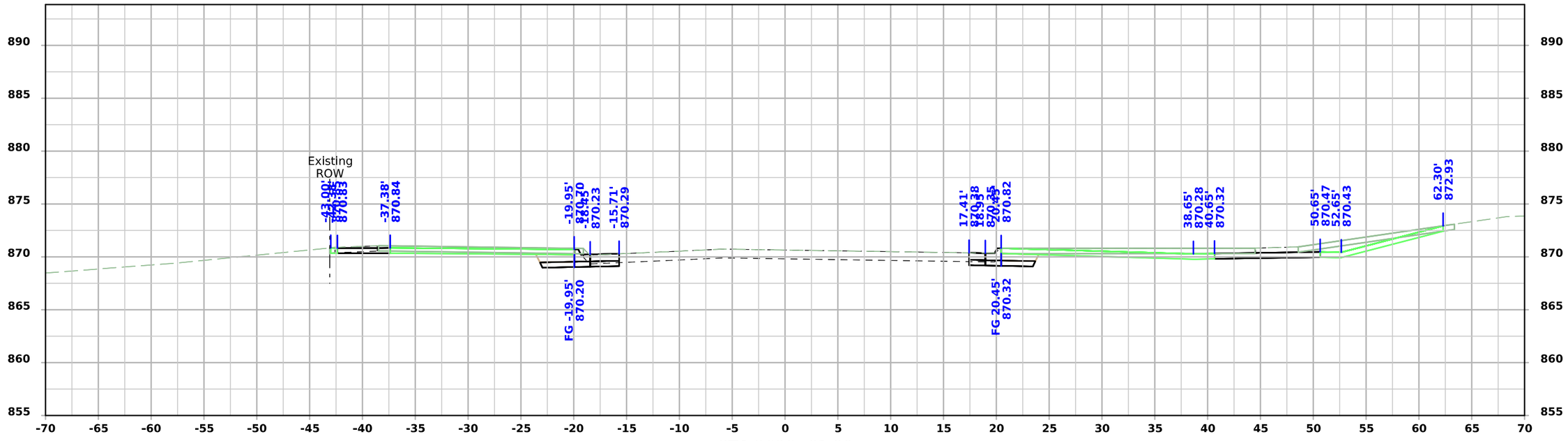
STA 3686+10.30

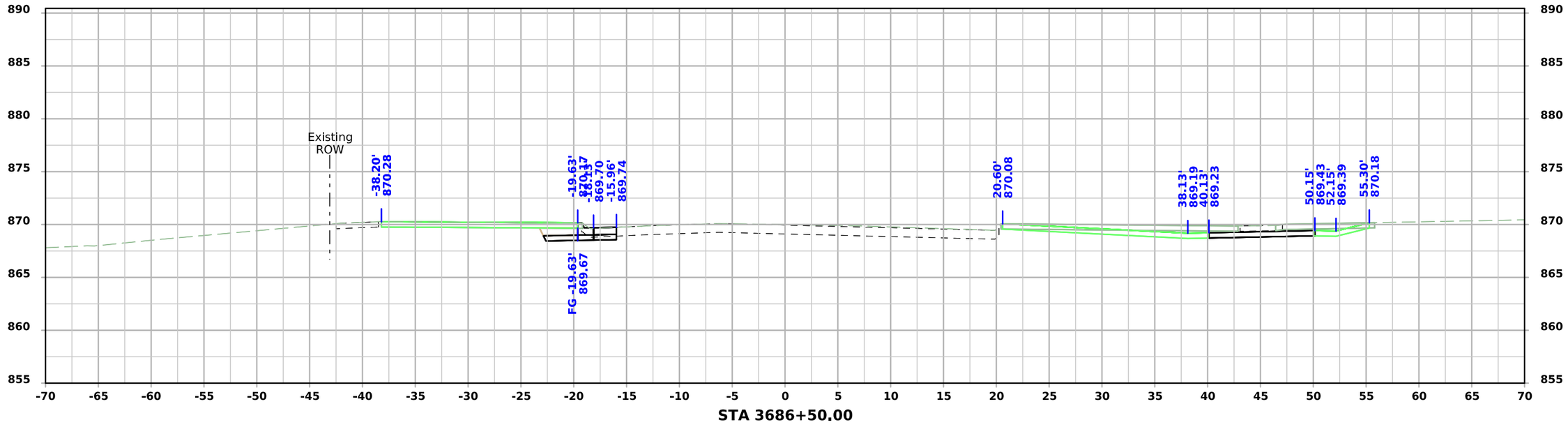
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V2

111th Street - Final Condition



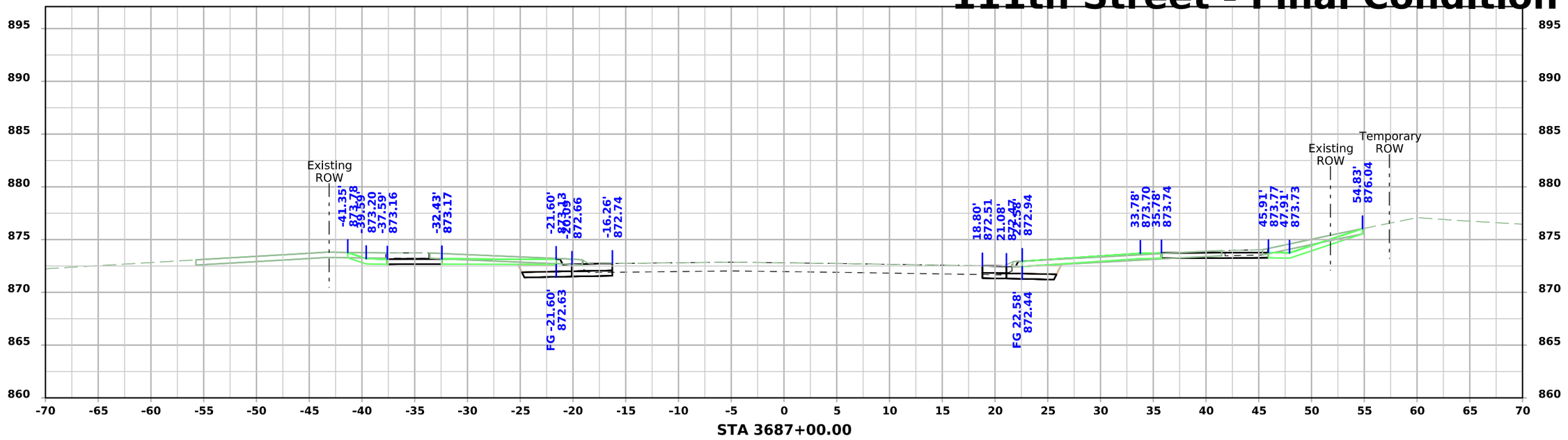


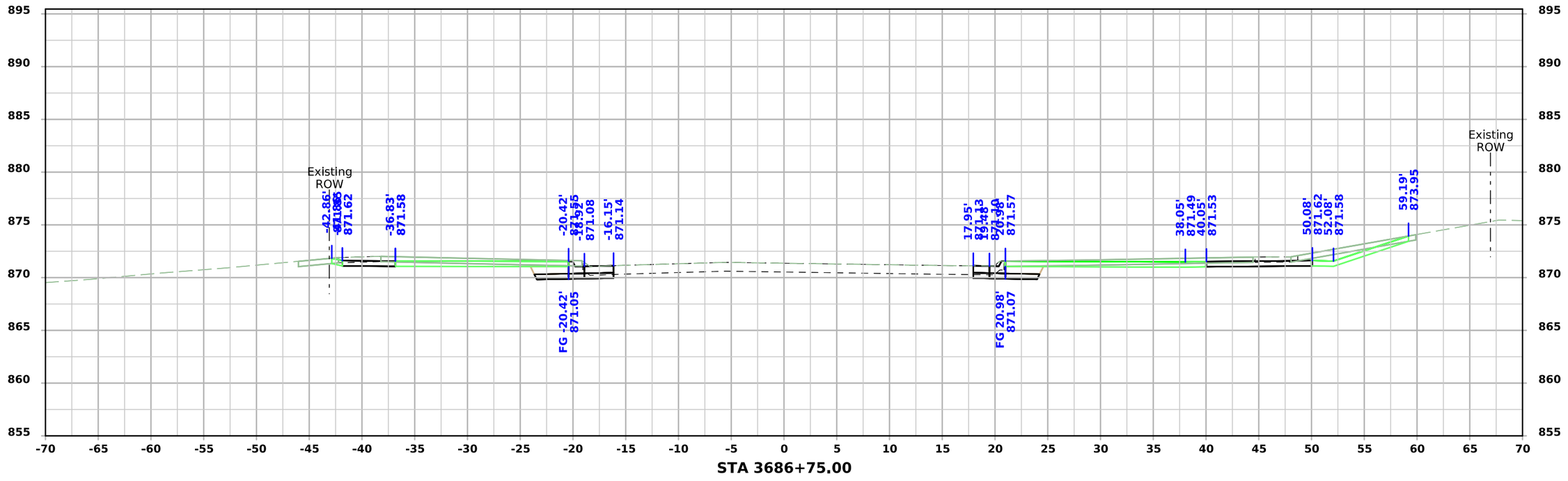
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V2

111th Street - Final Condition



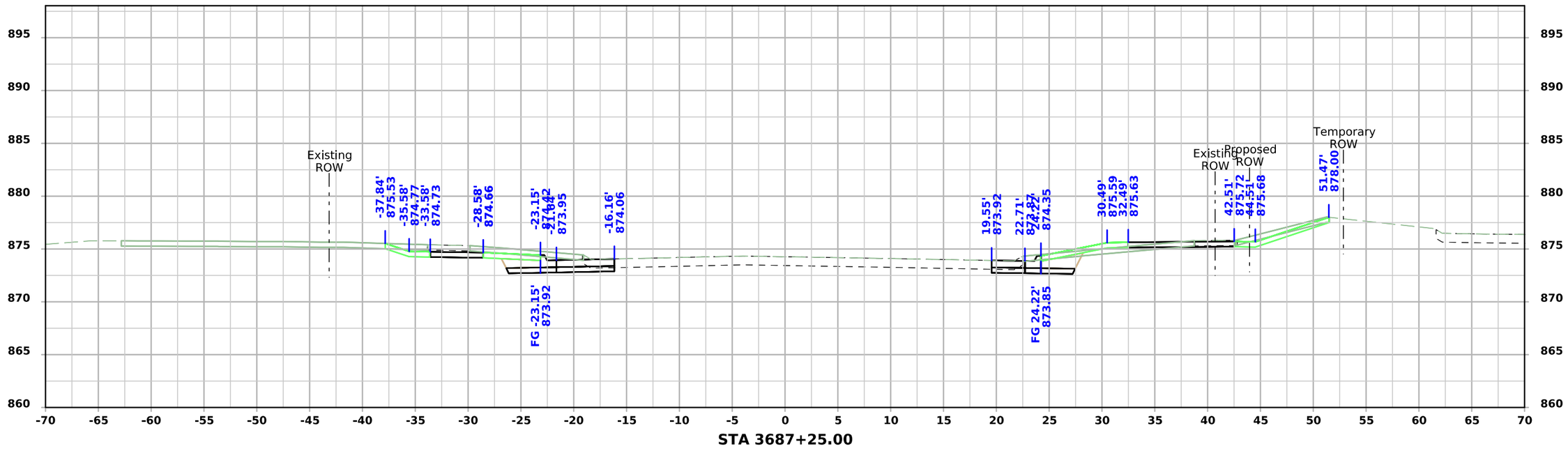


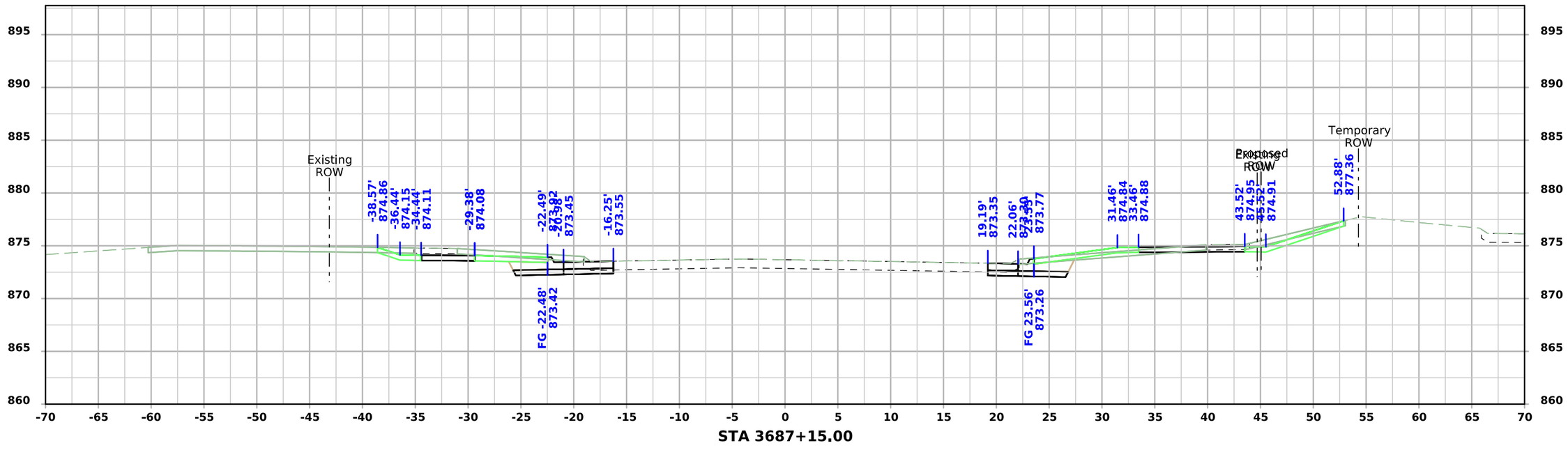
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V2

111th Street - Final Condition



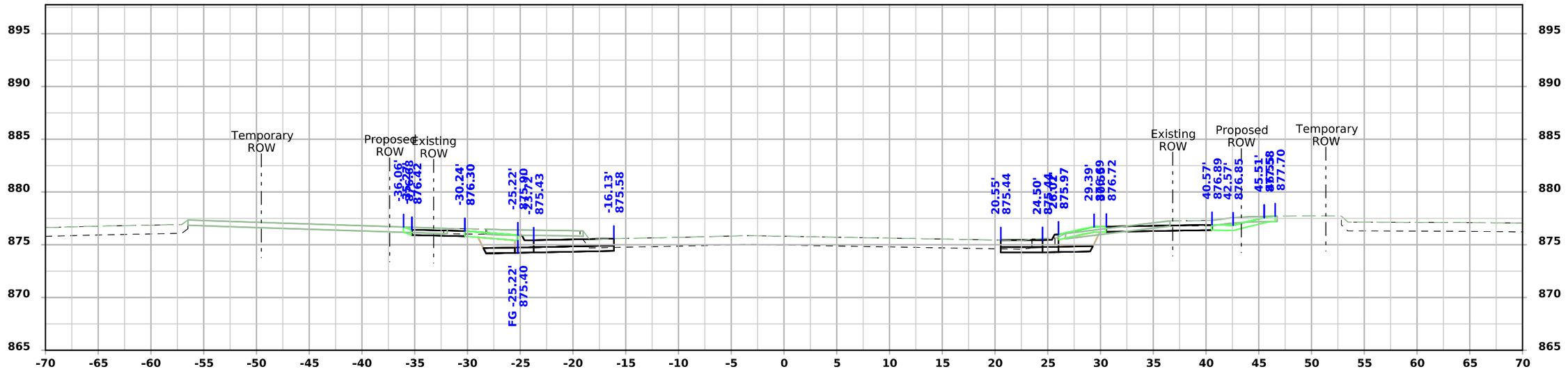


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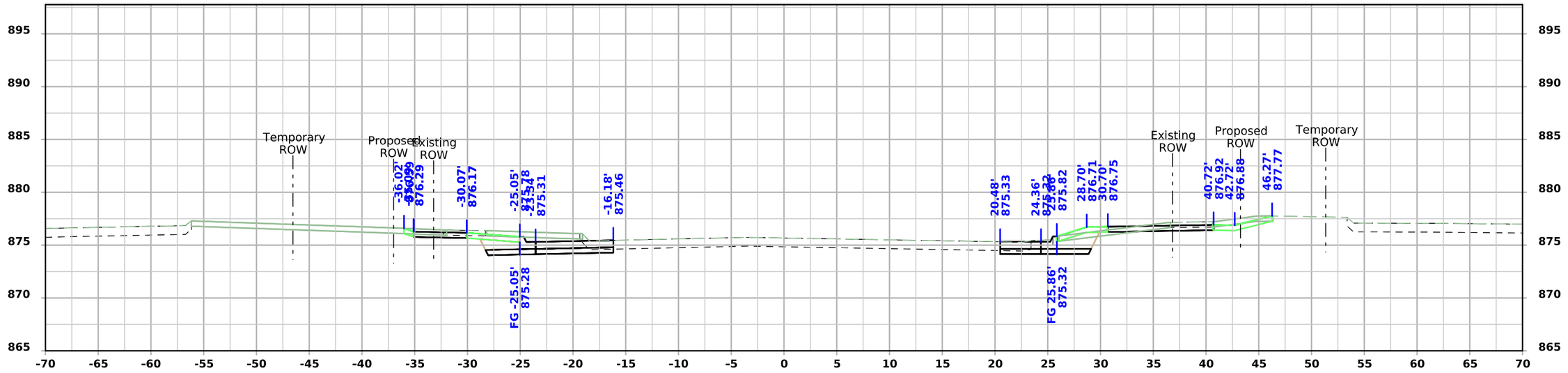
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V2

111th Street - Final Condition



STA 3687+52.10



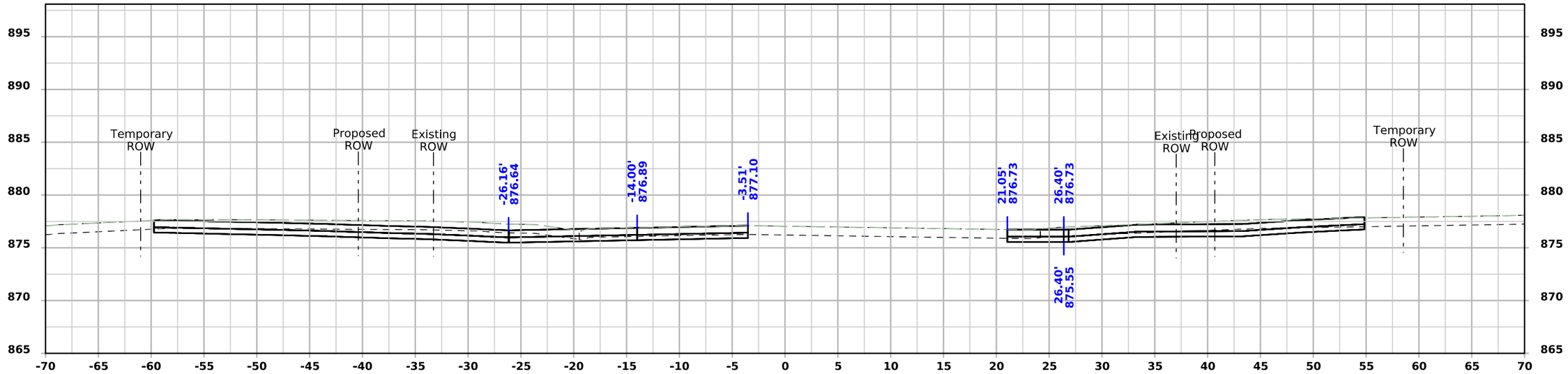
STA 3687+50.00

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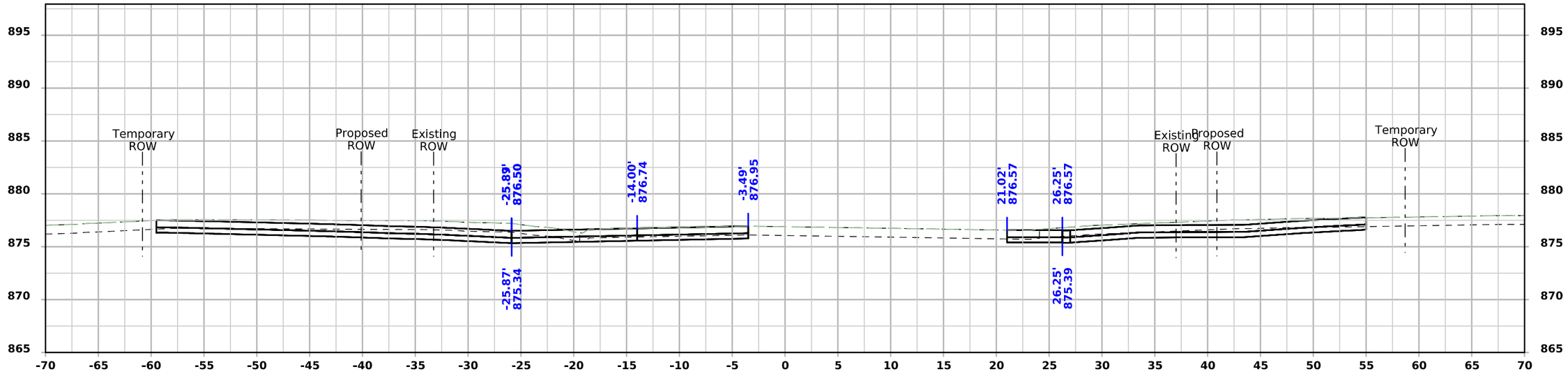
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V2

111th Street - Final Condition



STA 3687+75.00



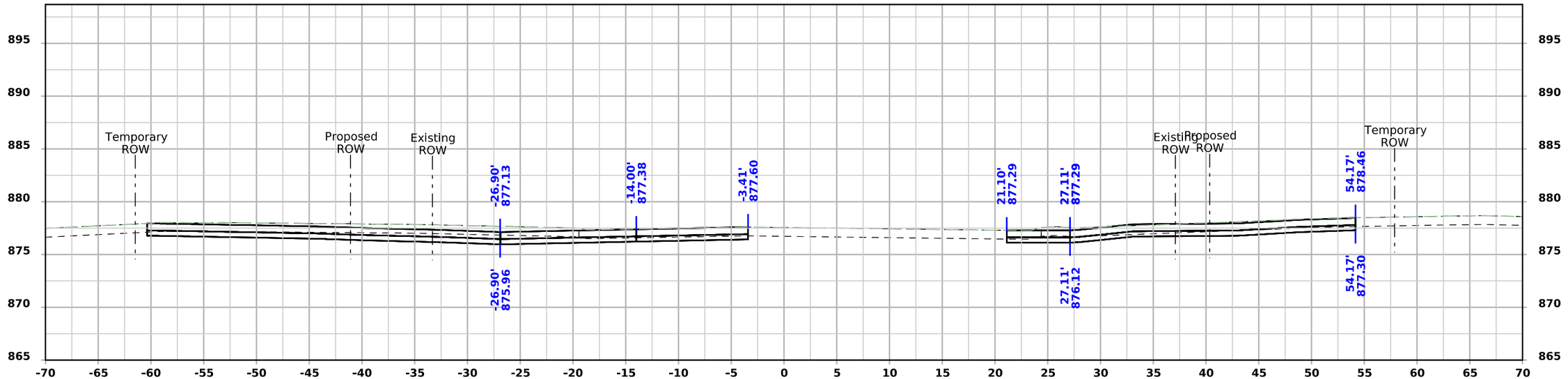
STA 3687+72.36

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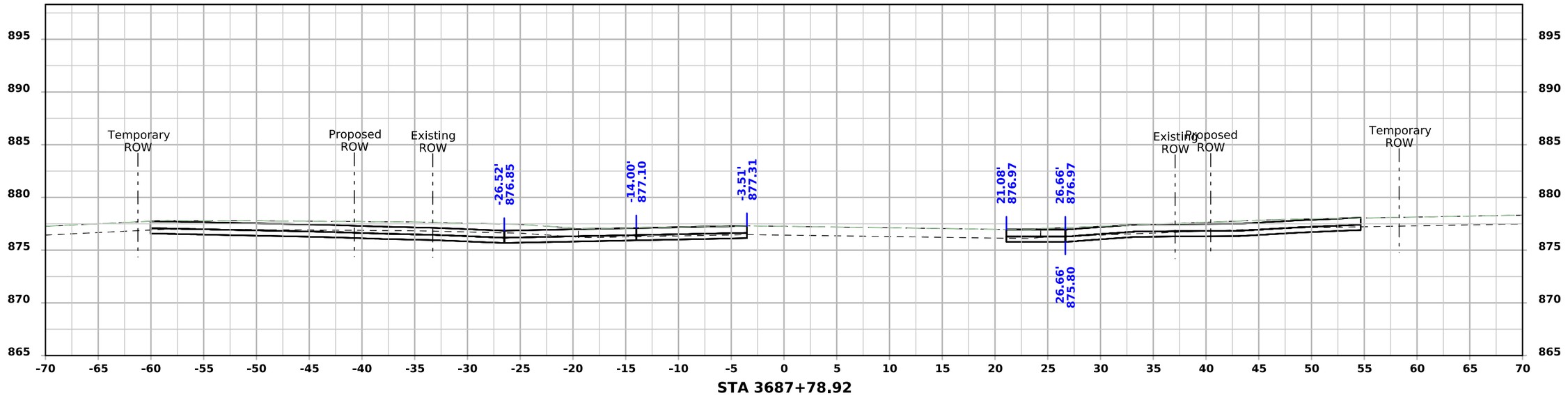
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V2

111th Street - Final Condition



STA 3687+84.04



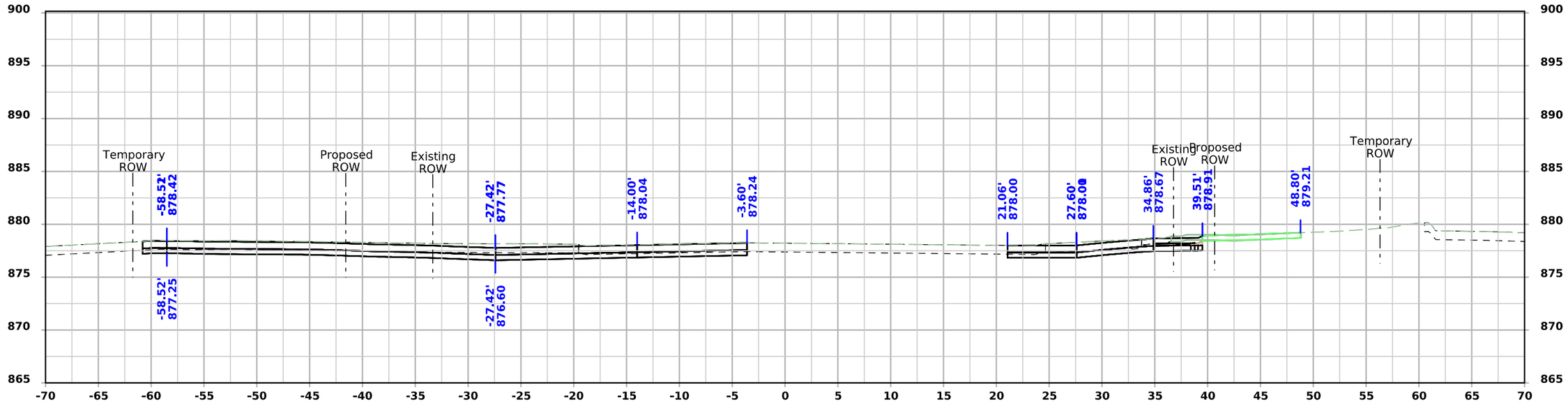
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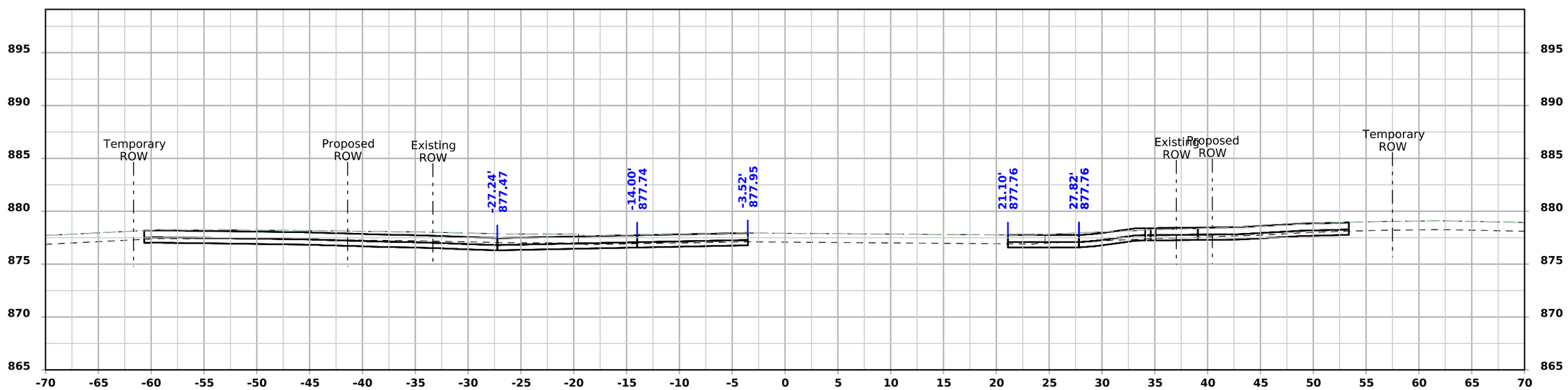
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V2

111th Street - Final Condition



STA 3687+95.76



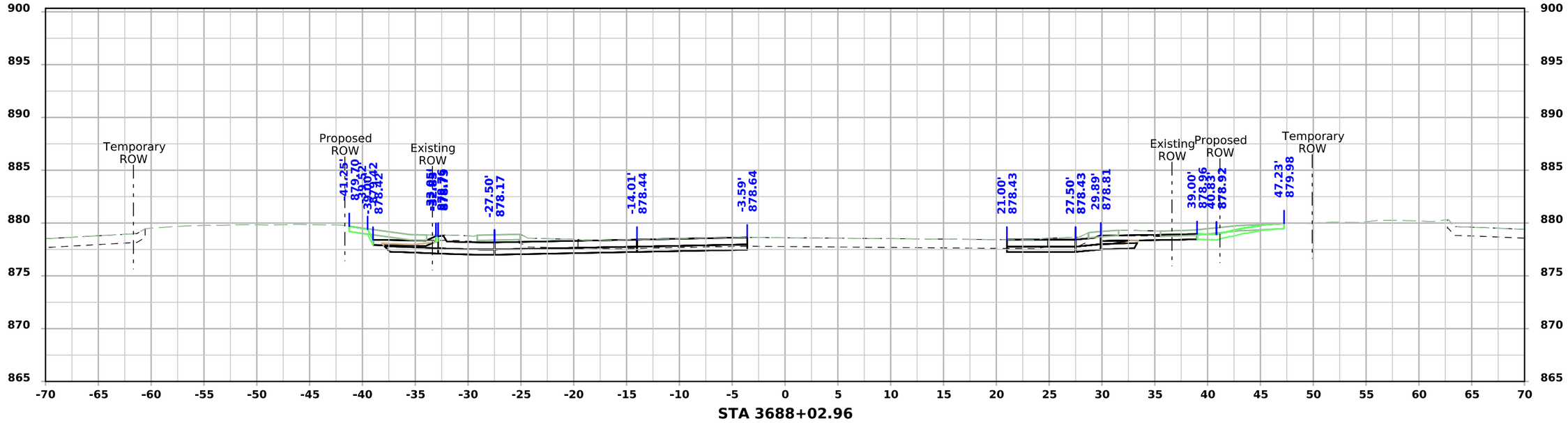
STA 3687+90.38

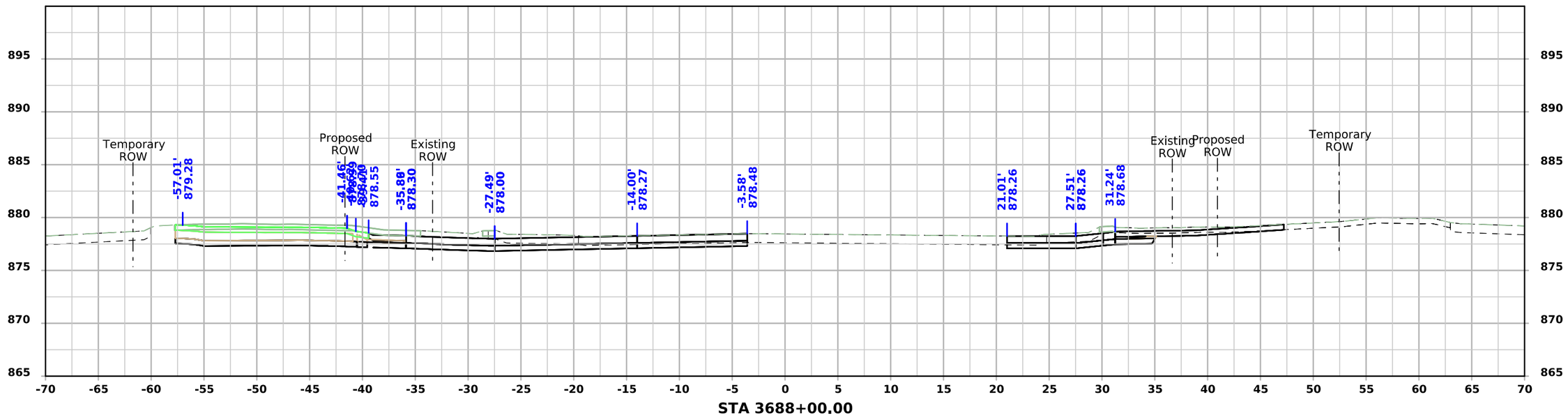
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V2

111th Street - Final Condition



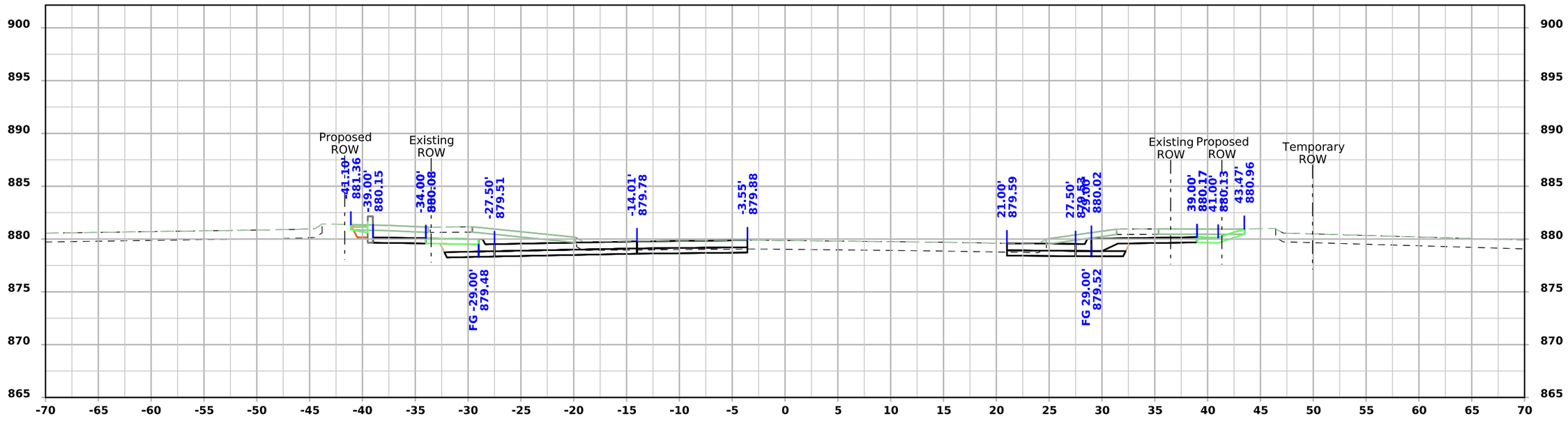


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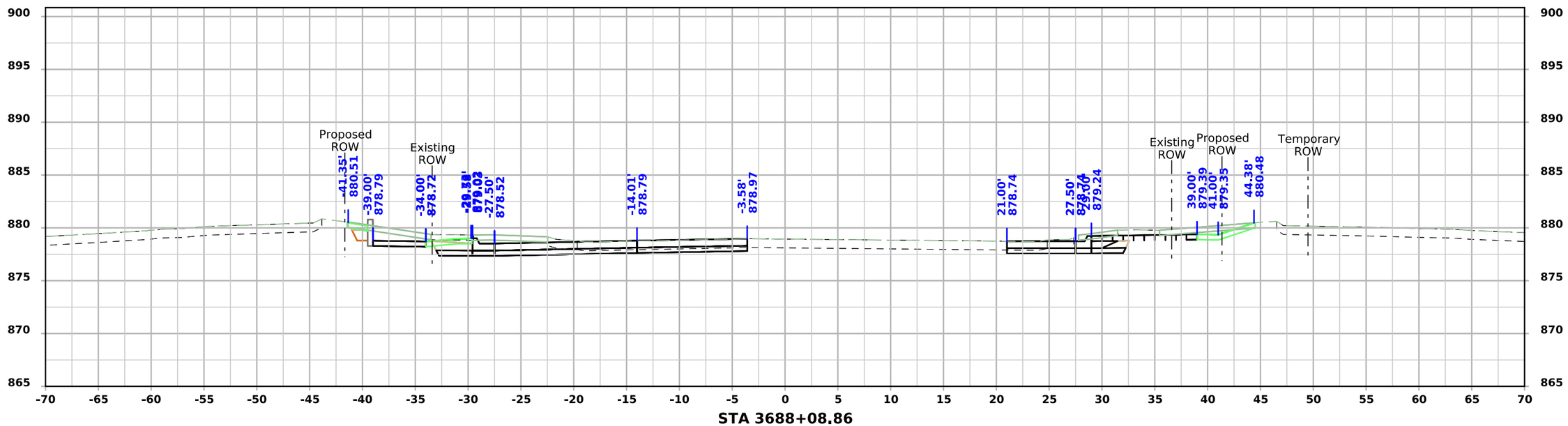
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V2

111th Street - Final Condition



STA 3688+25.00



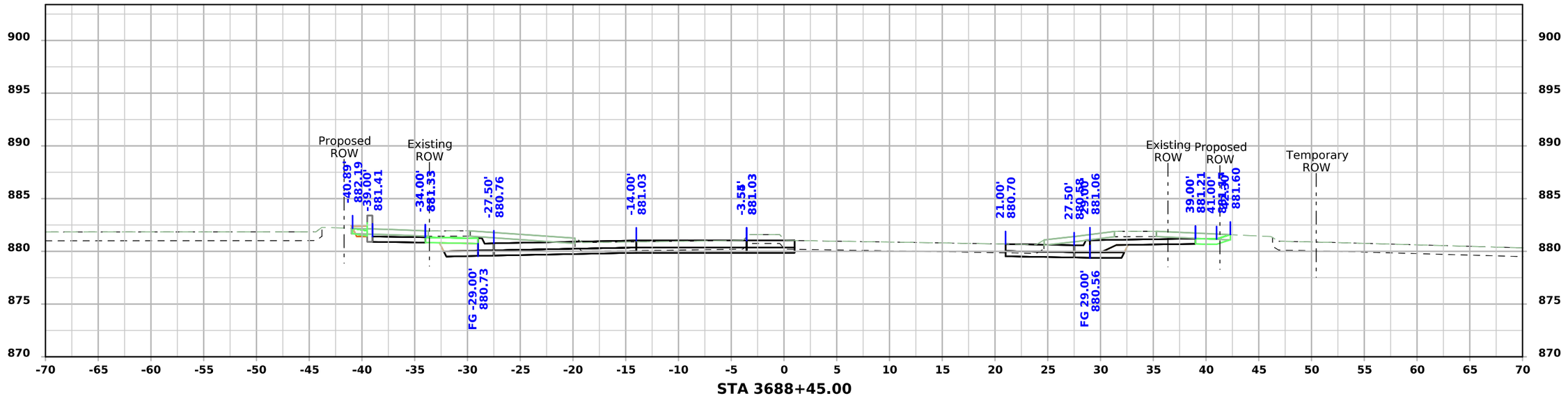
STA 3688+08.86

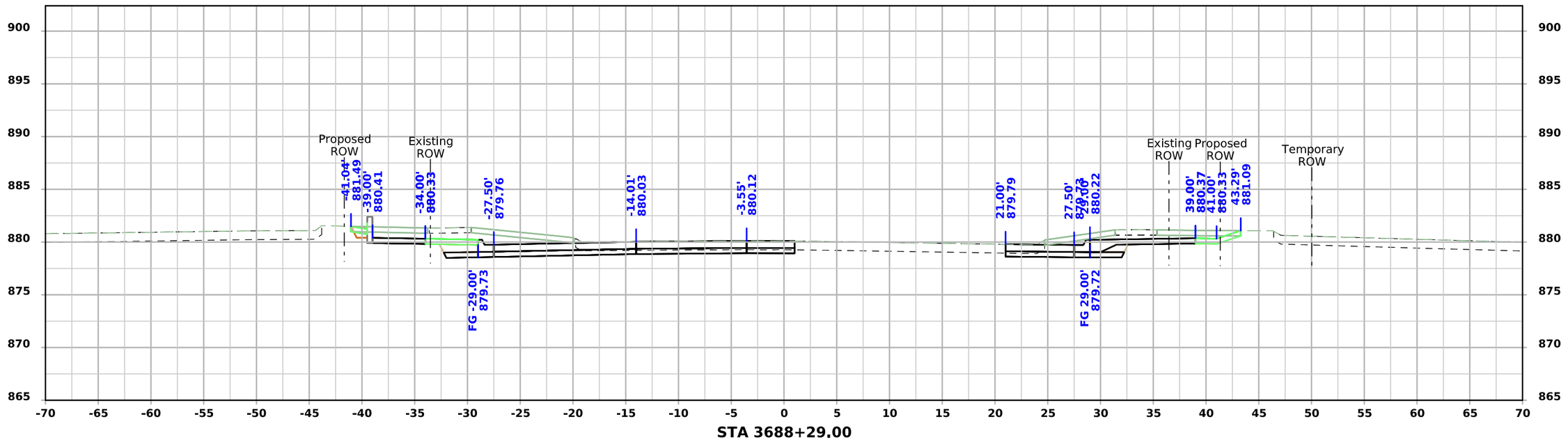
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V2

111th Street - Final Condition



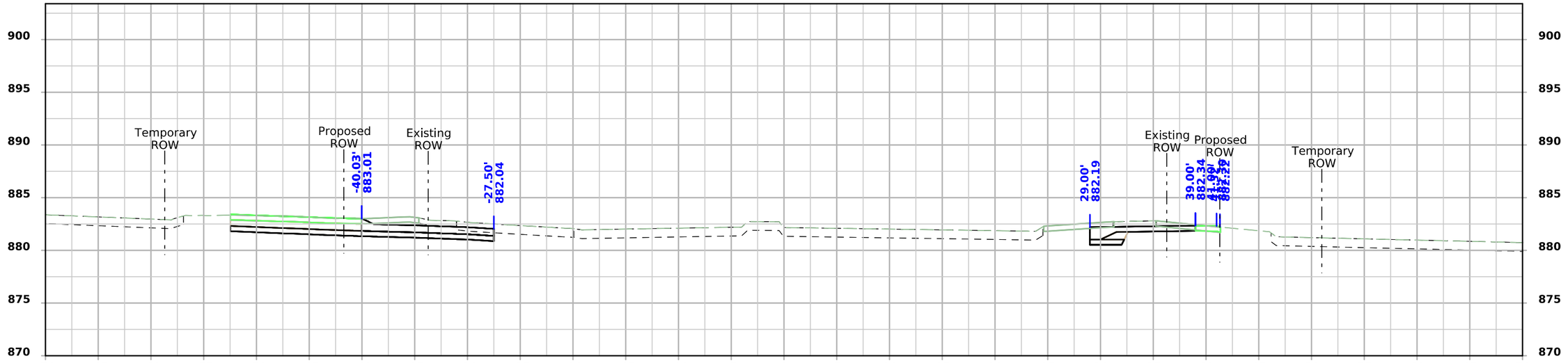


FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER X.110

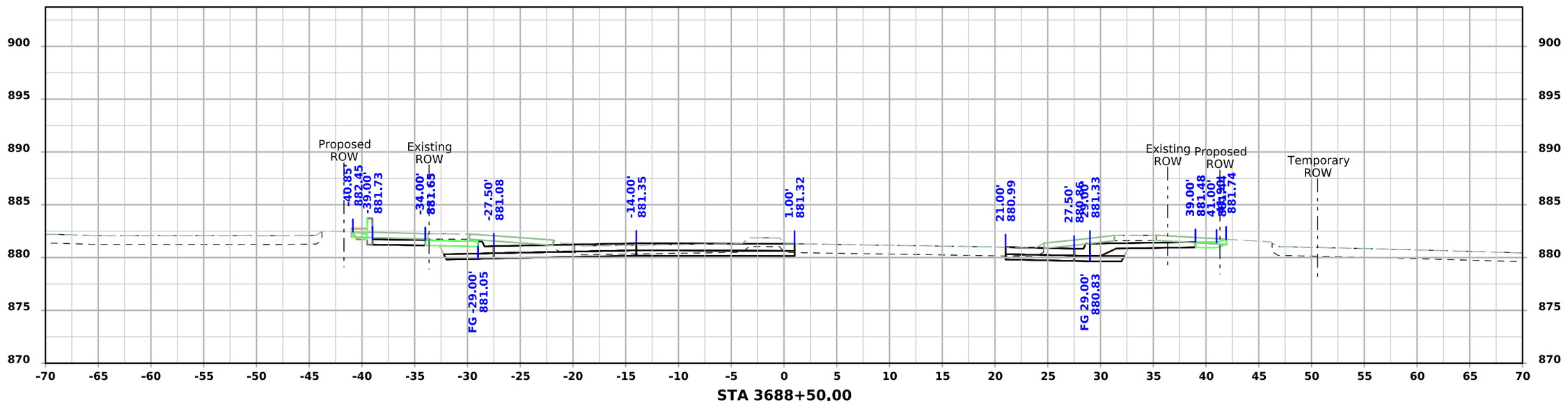
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V2

111th Street - Final Condition



STA 3688+65.00



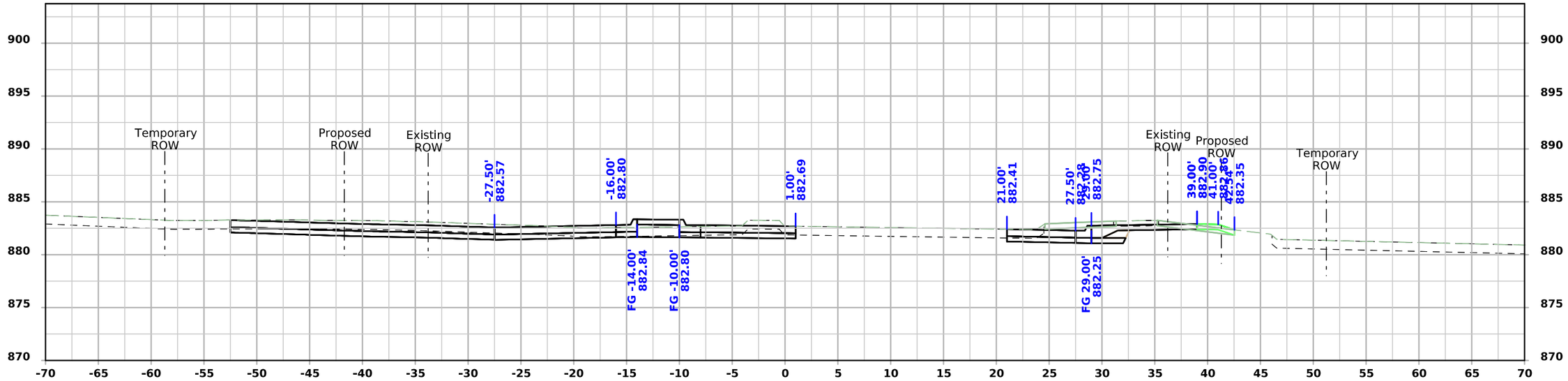
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FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER X.111

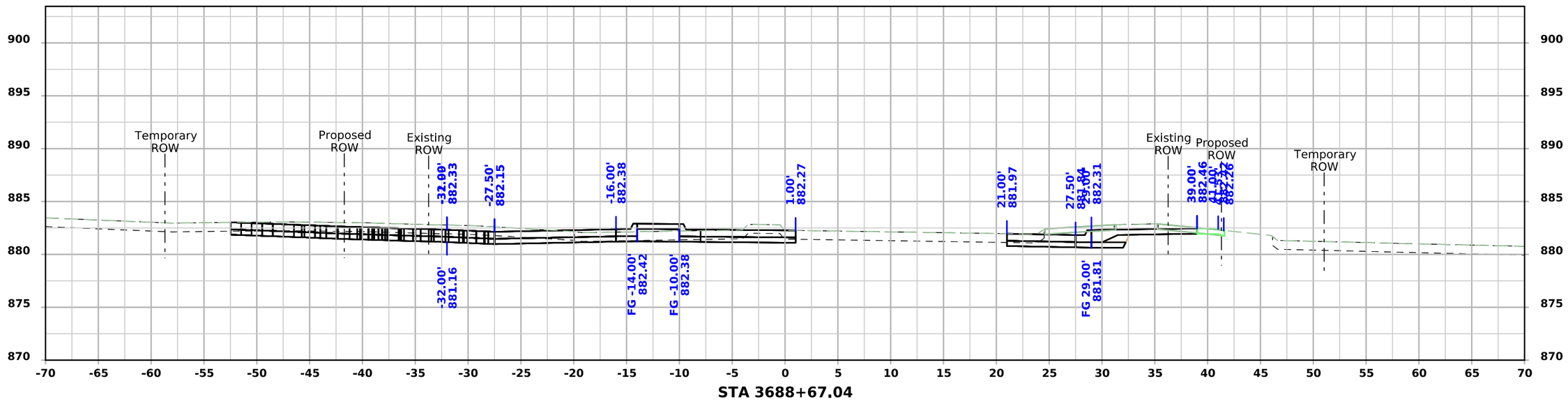
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V2

111th Street - Final Condition



STA 3688+75.00



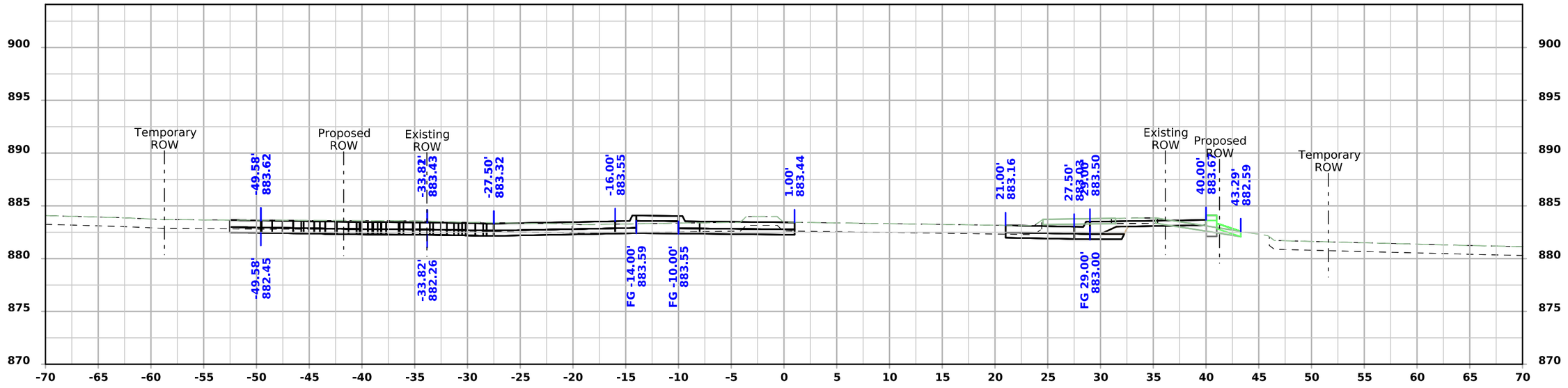
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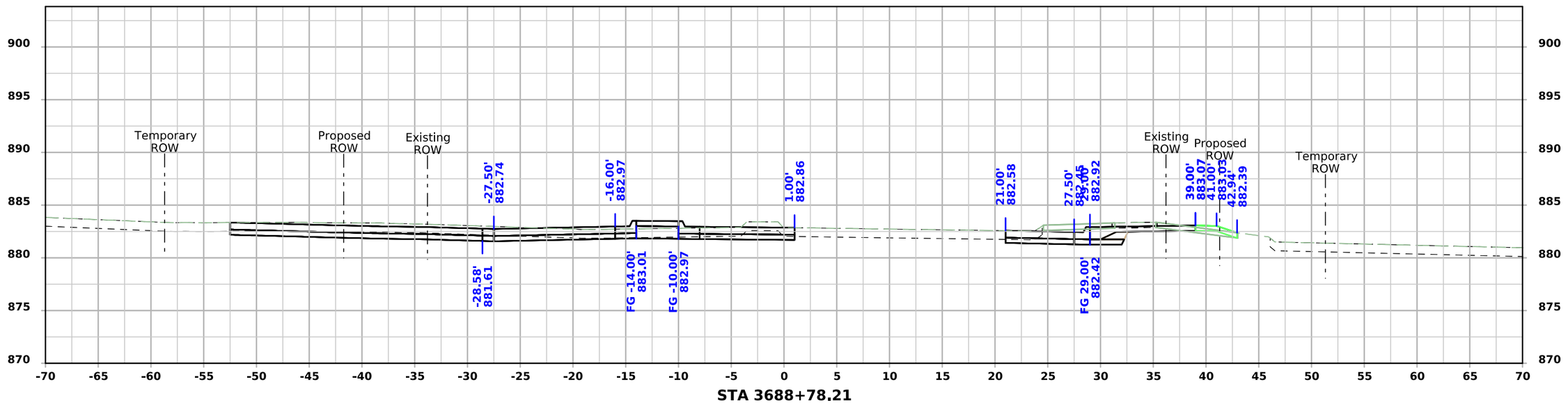
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V2

111th Street - Final Condition



STA 3688+89.04



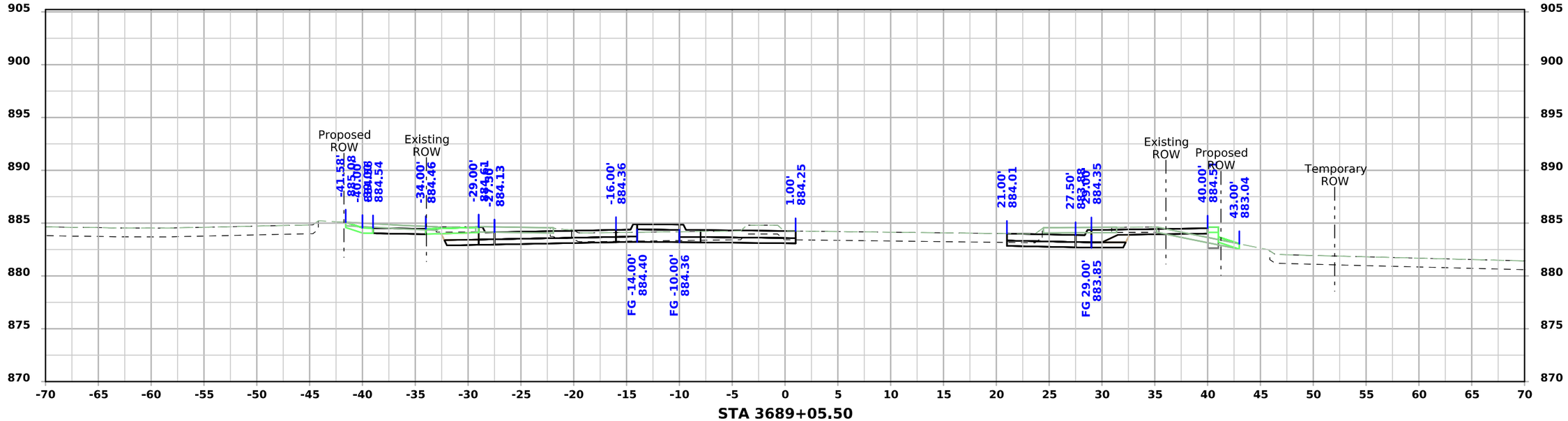
STA 3688+78.21

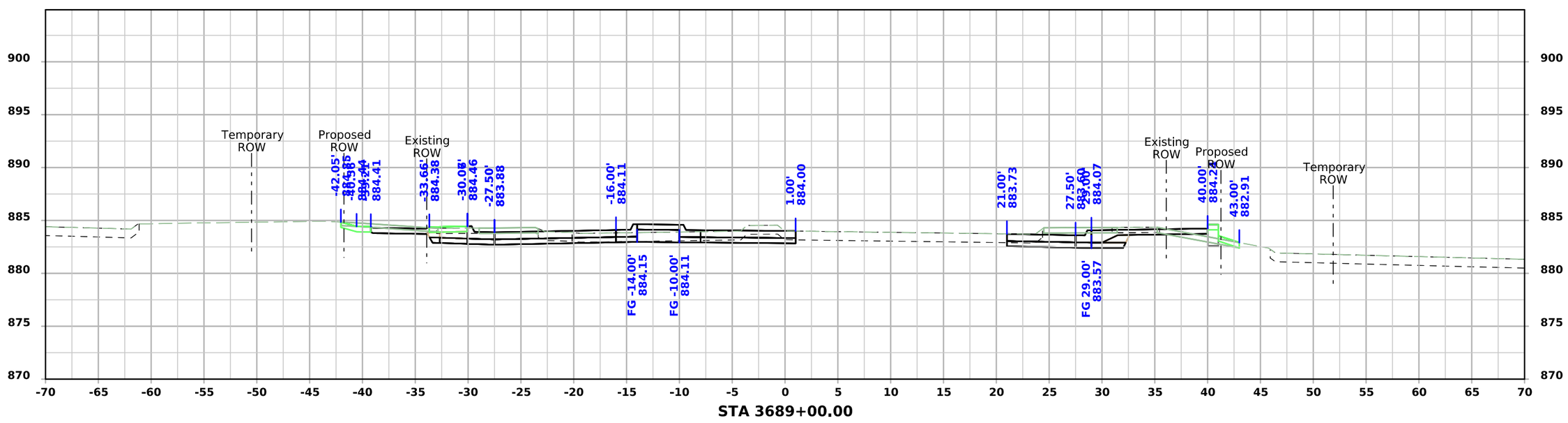
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V2

111th Street - Final Condition



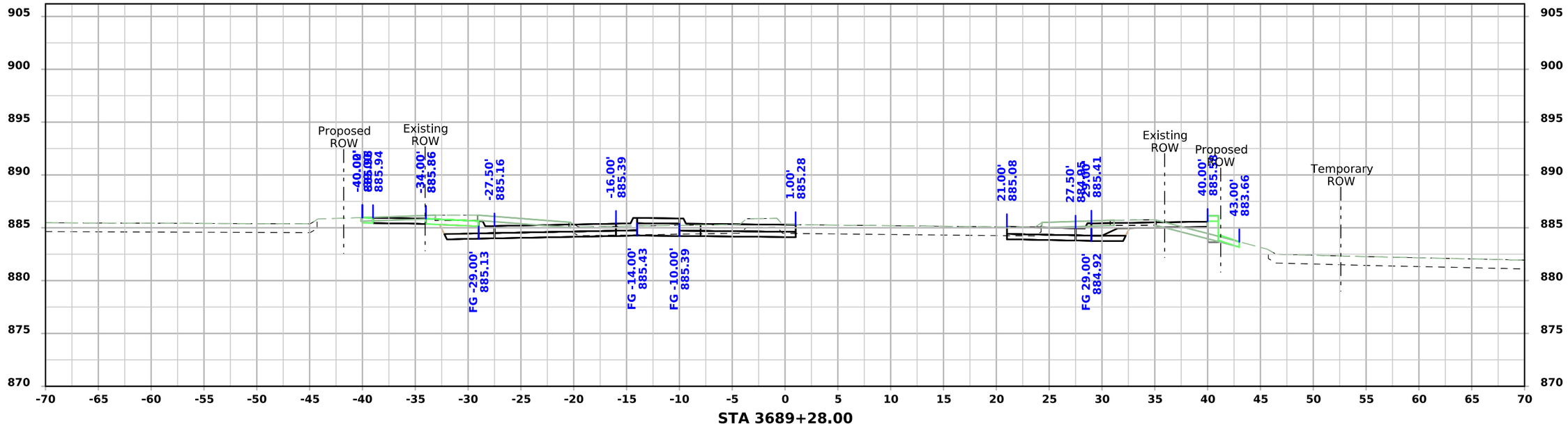


FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER X.114

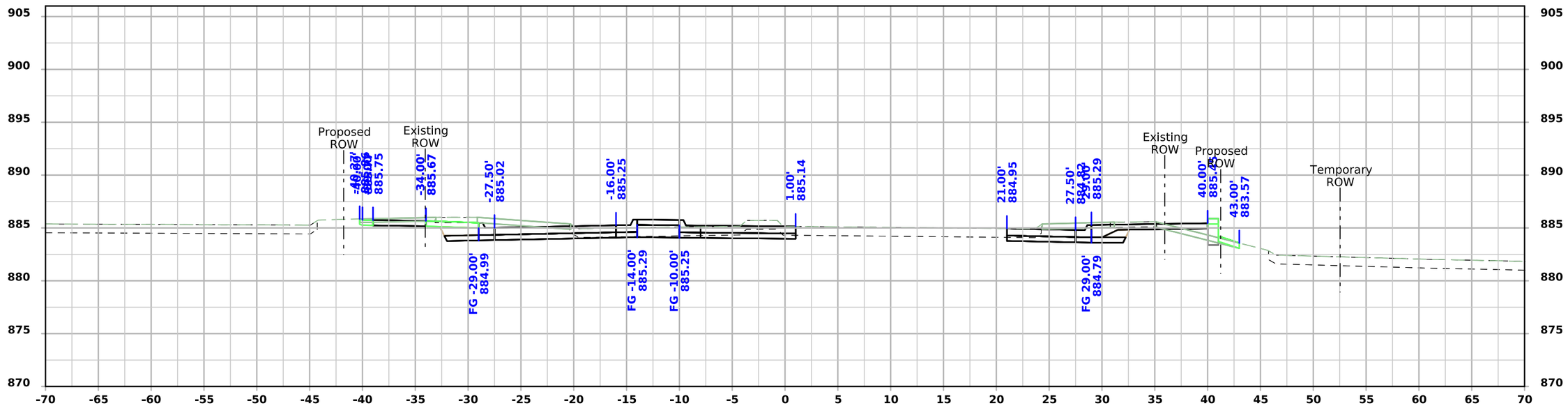
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V2

111th Street - Final Condition



STA 3689+28.00



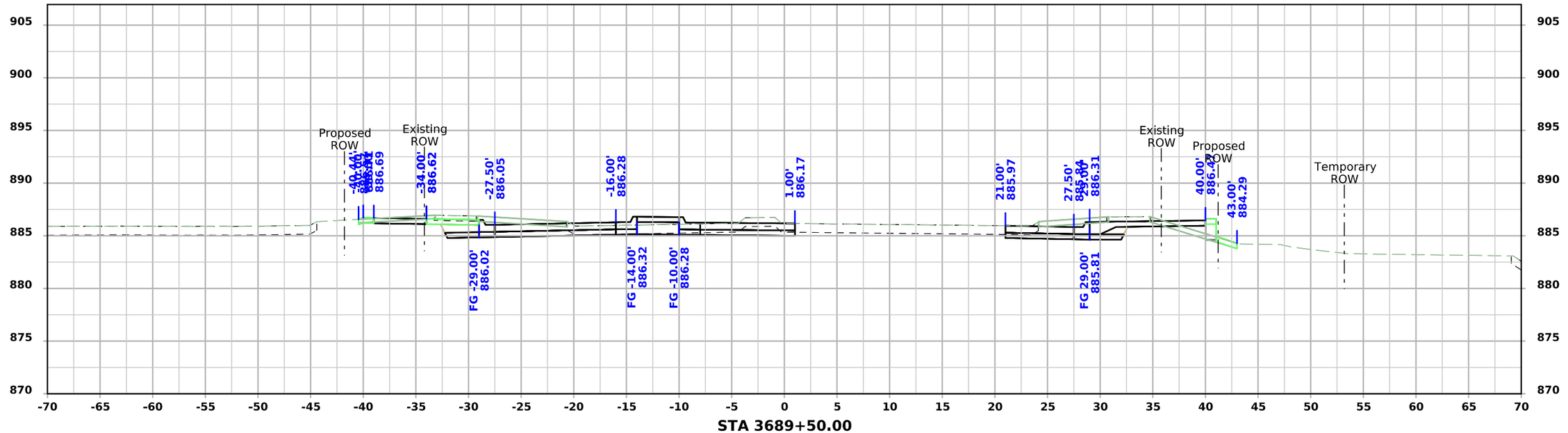
STA 3689+25.00

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER X.115

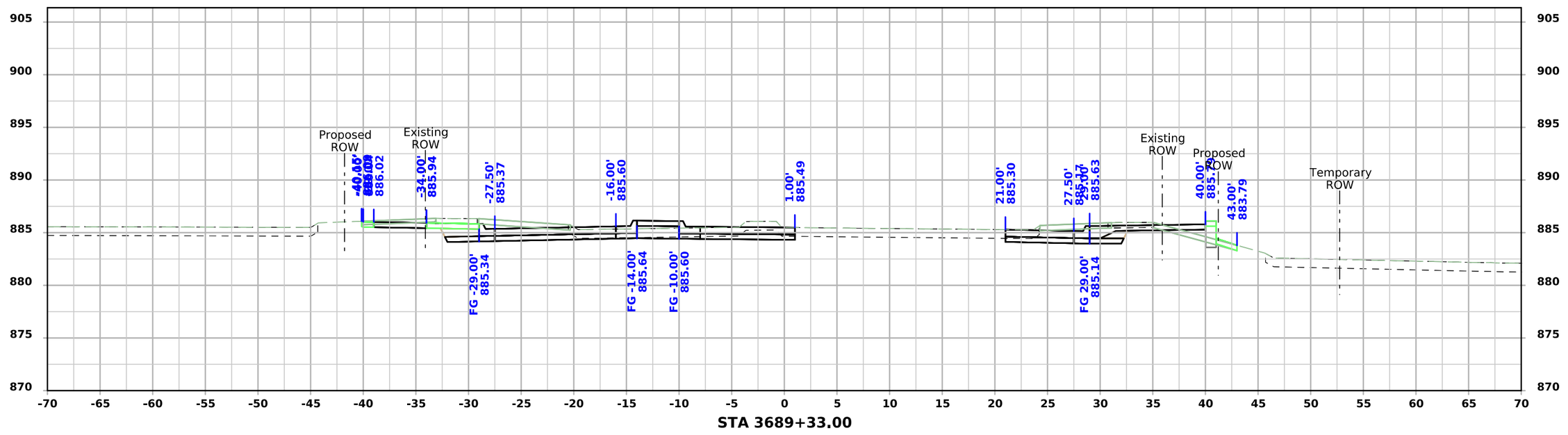
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V2

111th Street - Final Condition



STA 3689+50.00



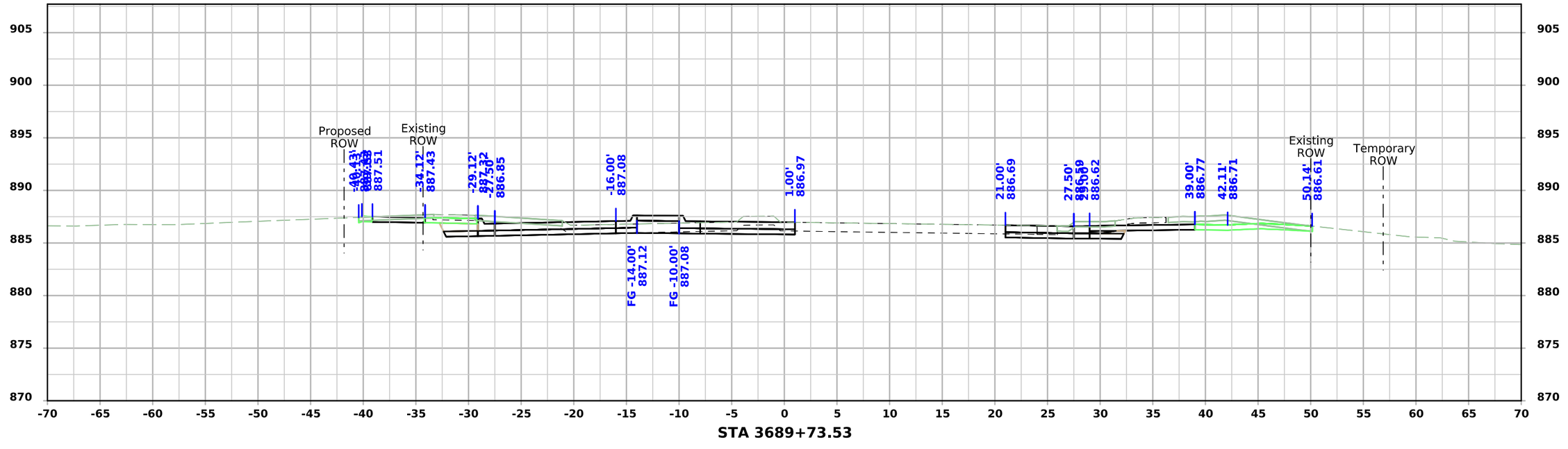
STA 3689+33.00

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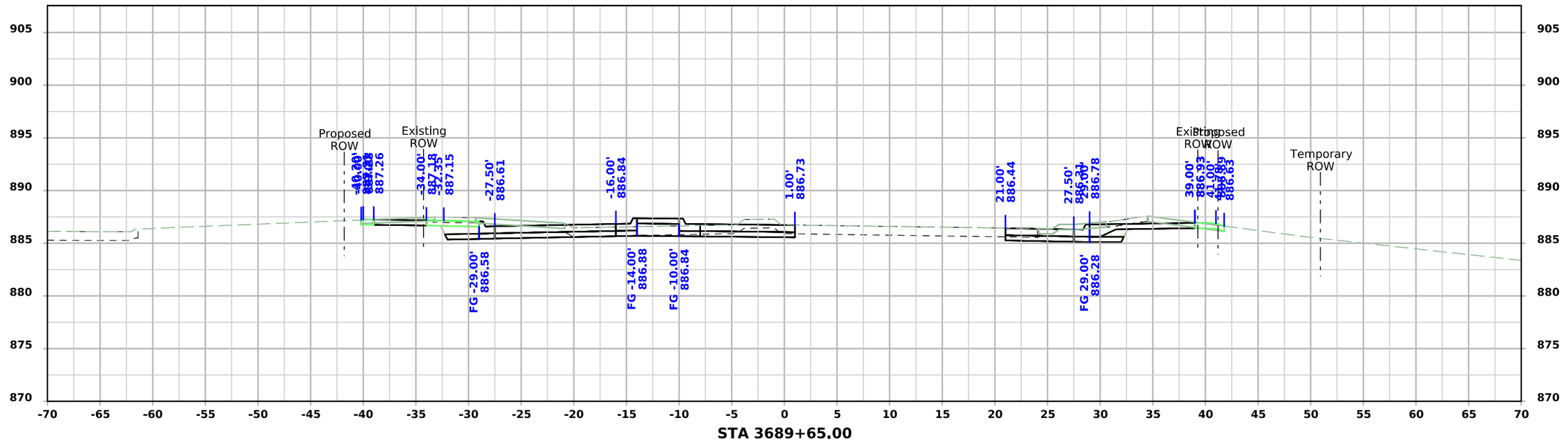
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V2

111th Street - Final Condition



STA 3689+73.53



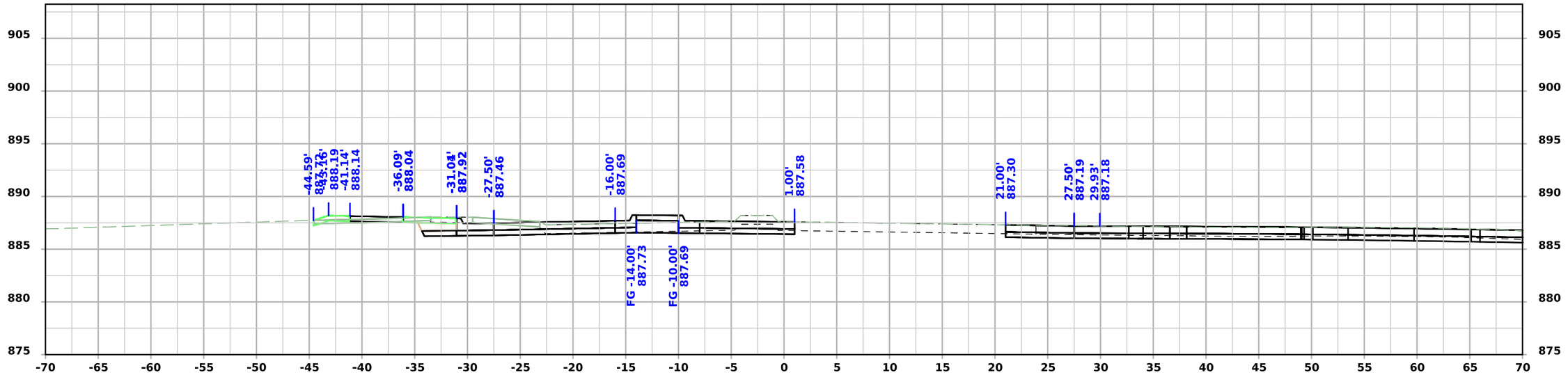
STA 3689+65.00

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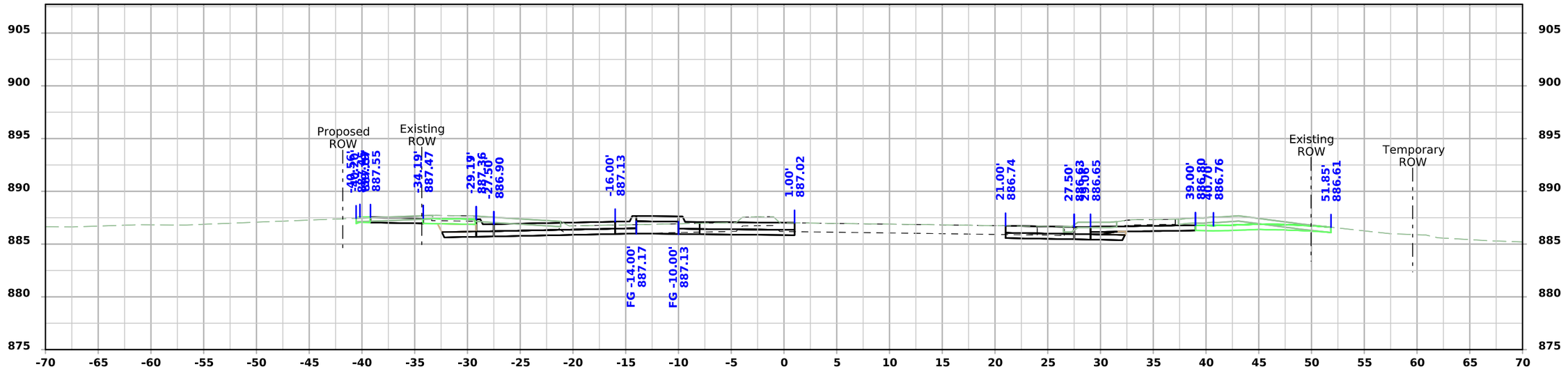
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V2

111th Street - Final Condition



STA 3689+95.03



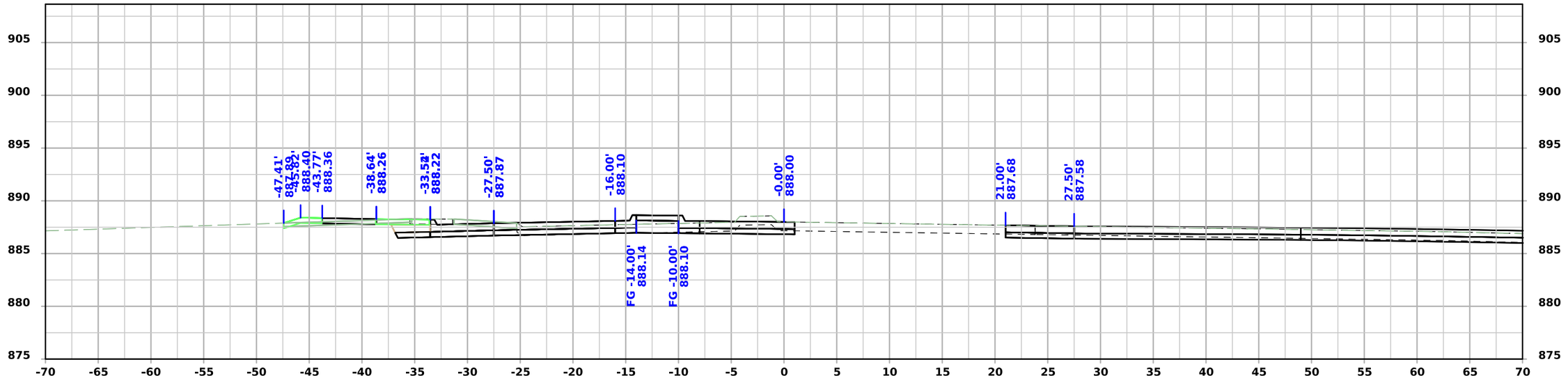
STA 3689+75.00

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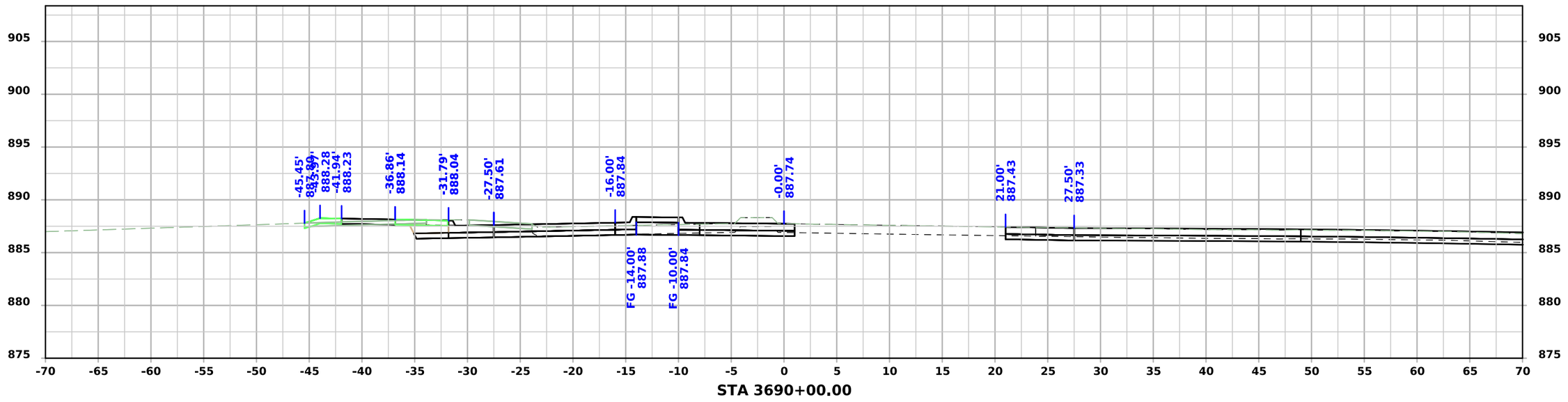
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V2

111th Street - Final Condition



STA 3690+09.00



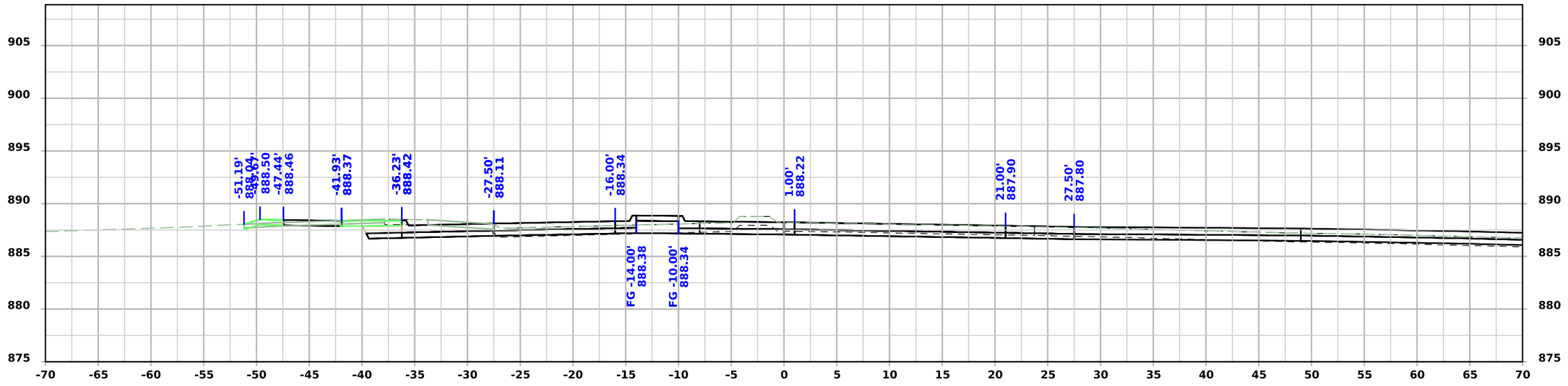
STA 3690+00.00

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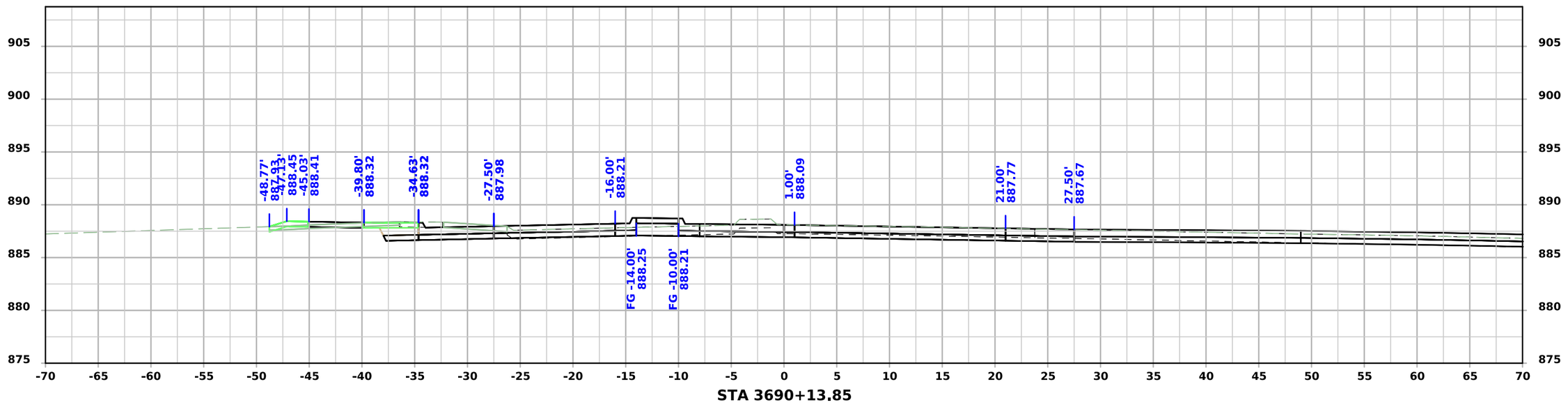
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V2

111th Street - Final Condition



STA 3690+20.00



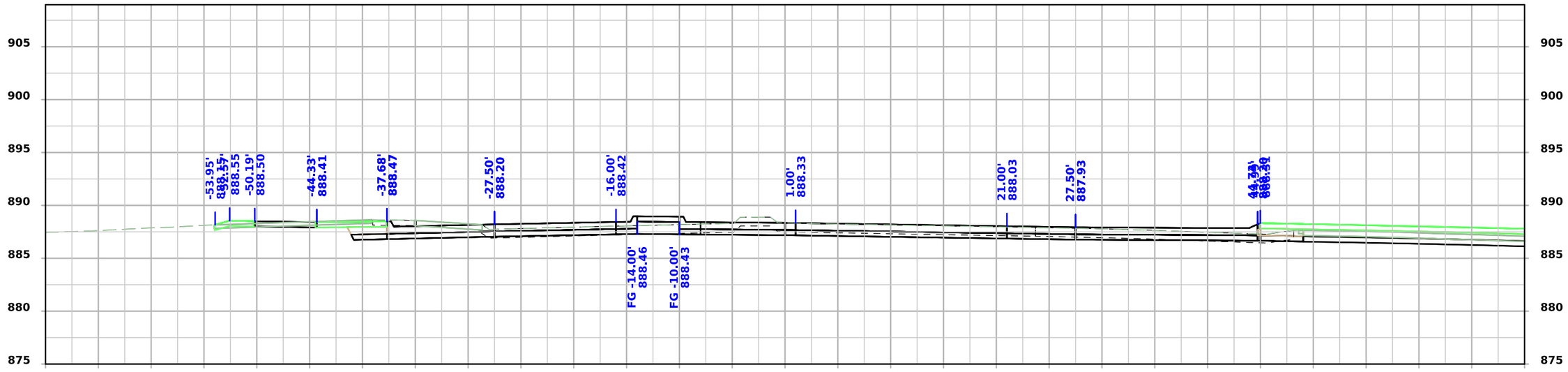
STA 3690+13.85

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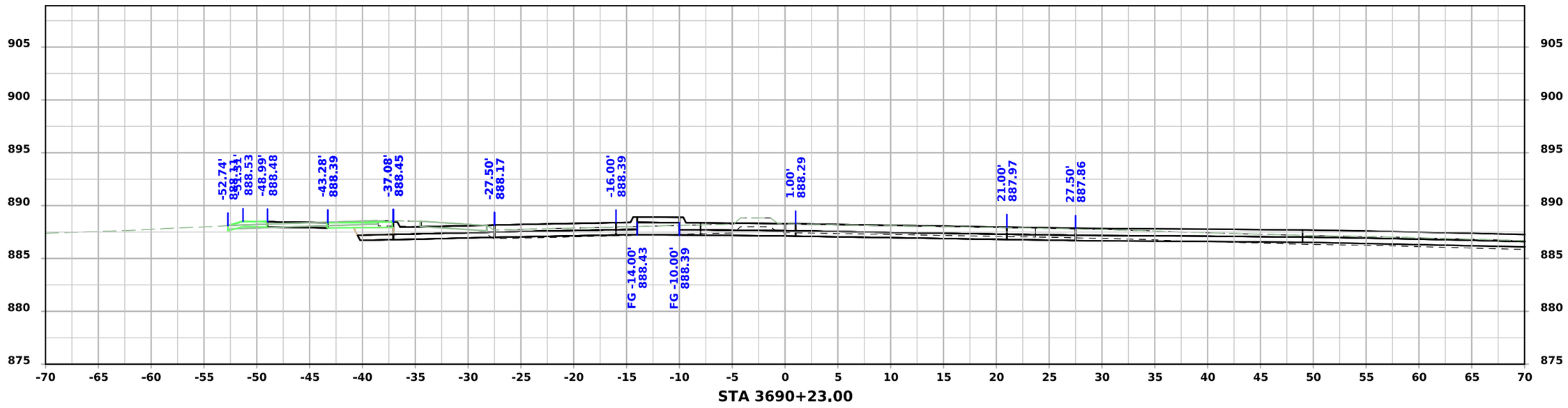
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V2

111th Street - Final Condition



STA 3690+25.00



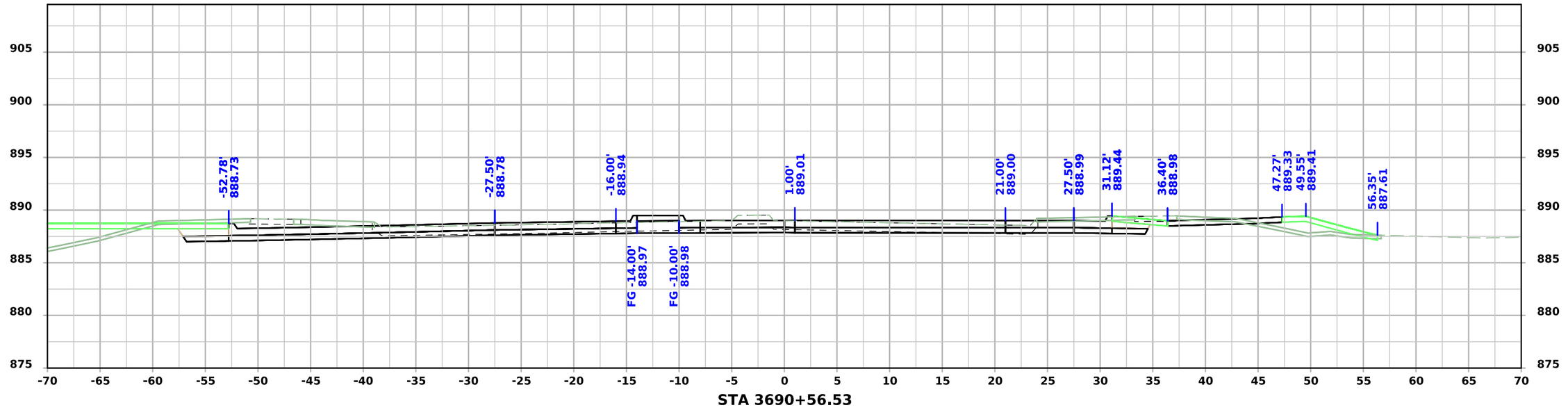
STA 3690+23.00

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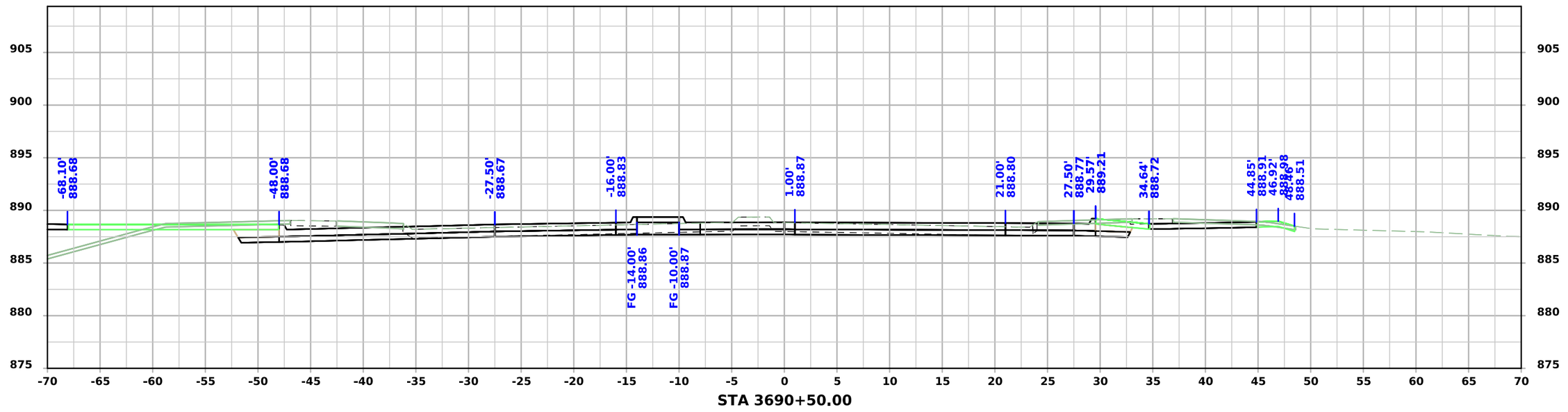
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V2

111th Street - Final Condition



STA 3690+56.53



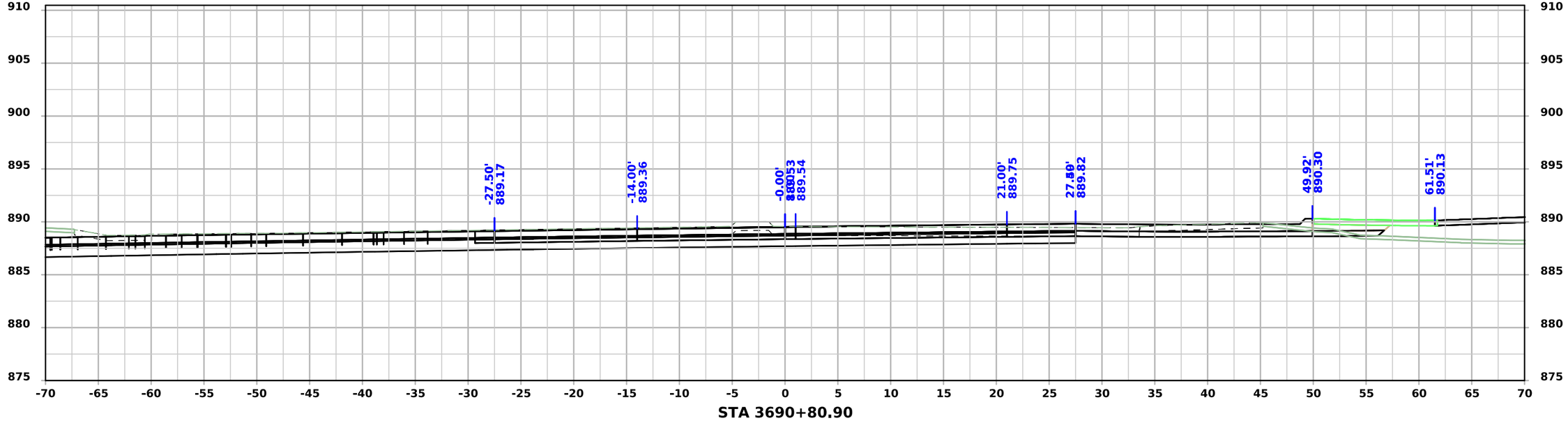
STA 3690+50.00

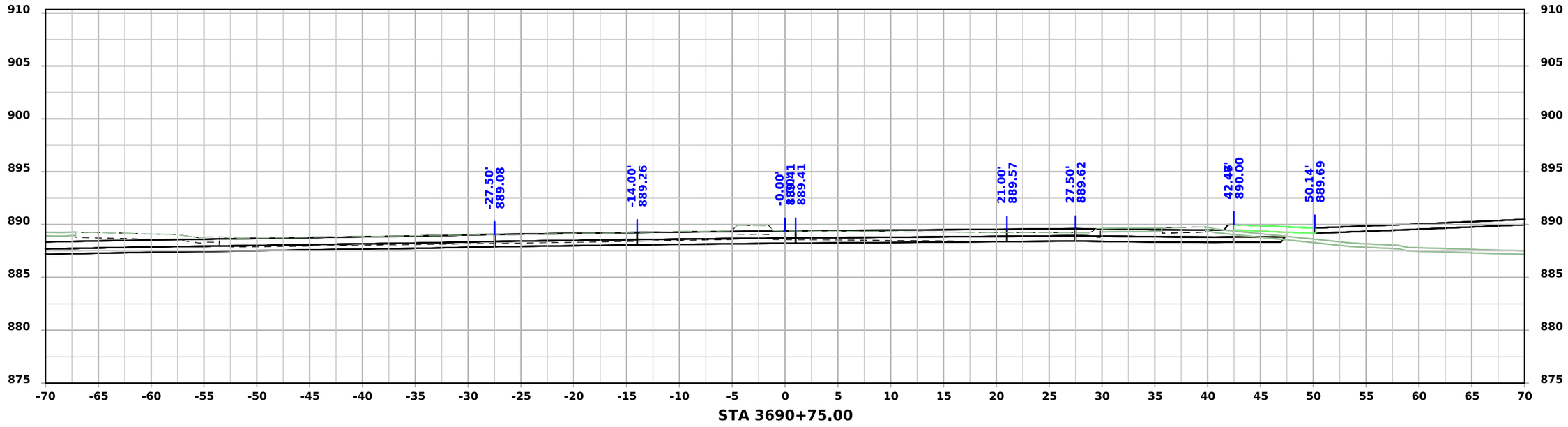
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V2

111th Street - Final Condition



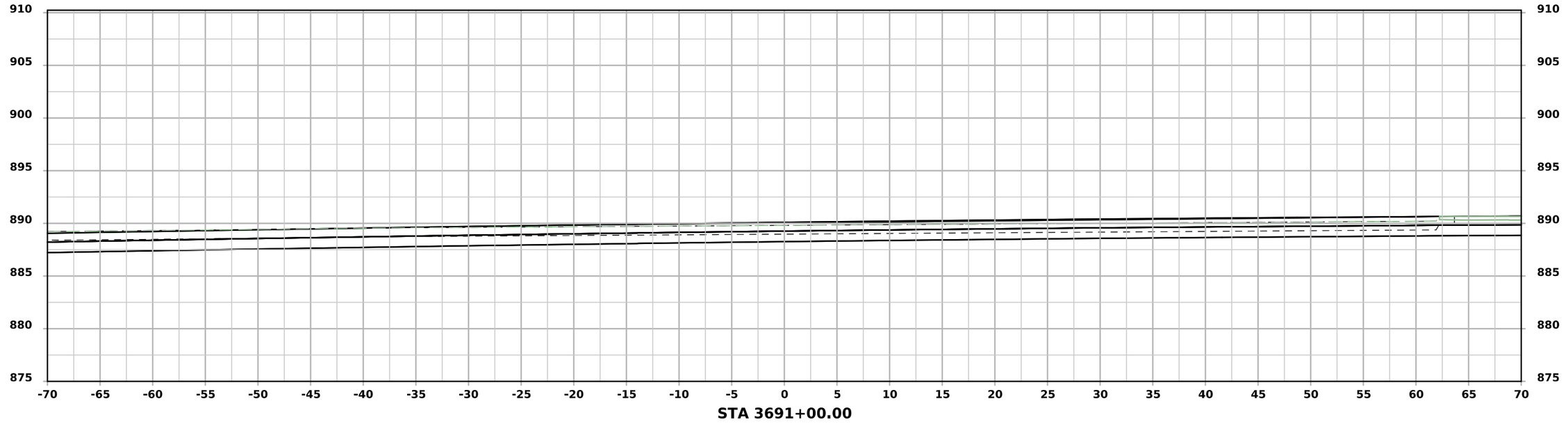


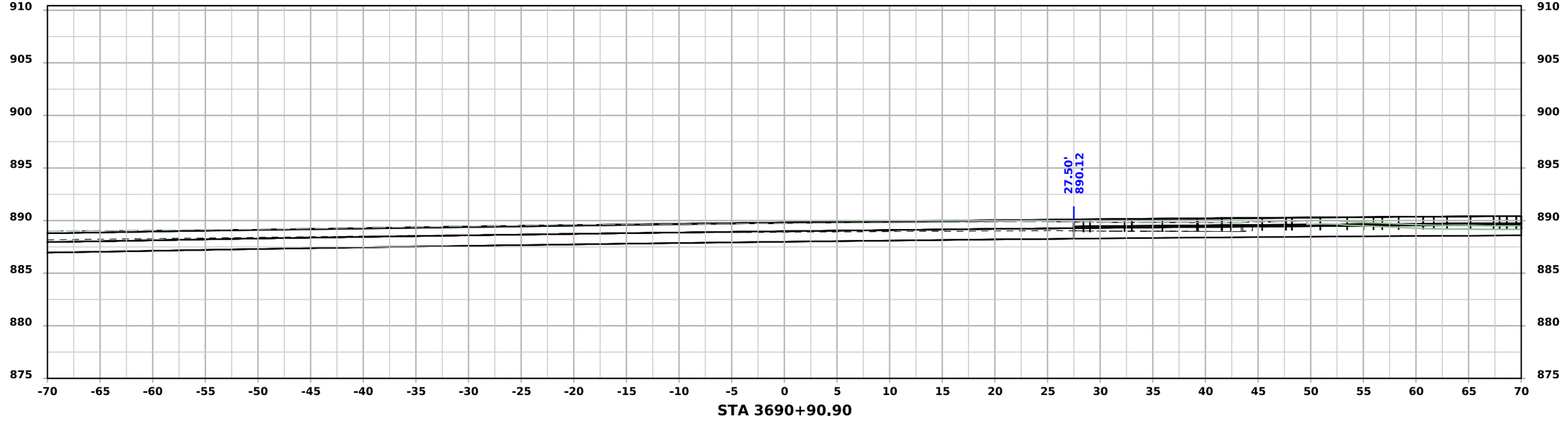
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V2

111th Street - Final Condition



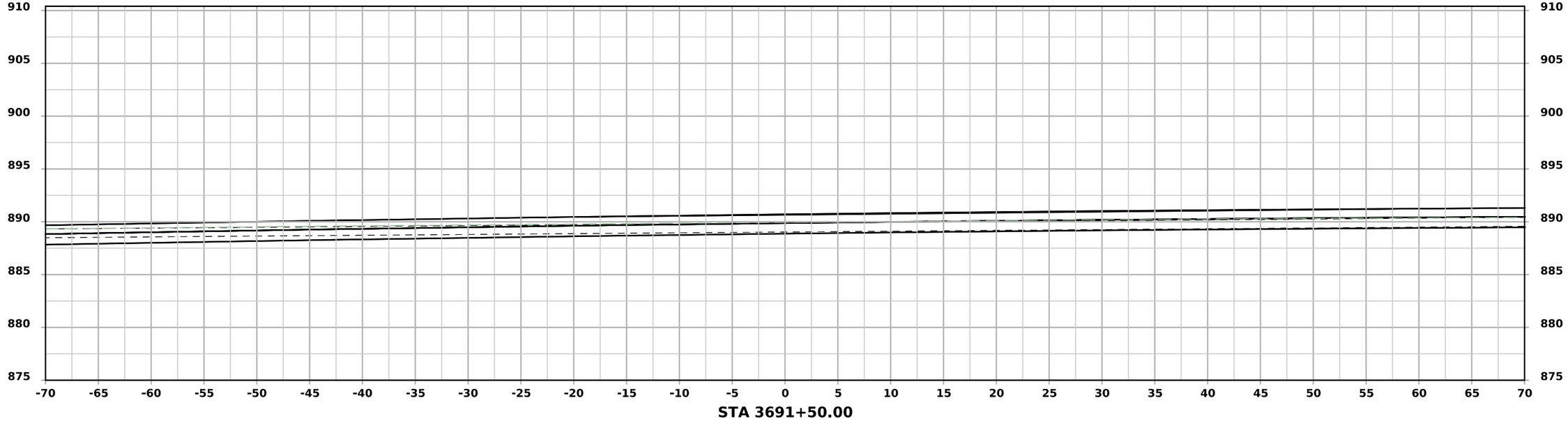


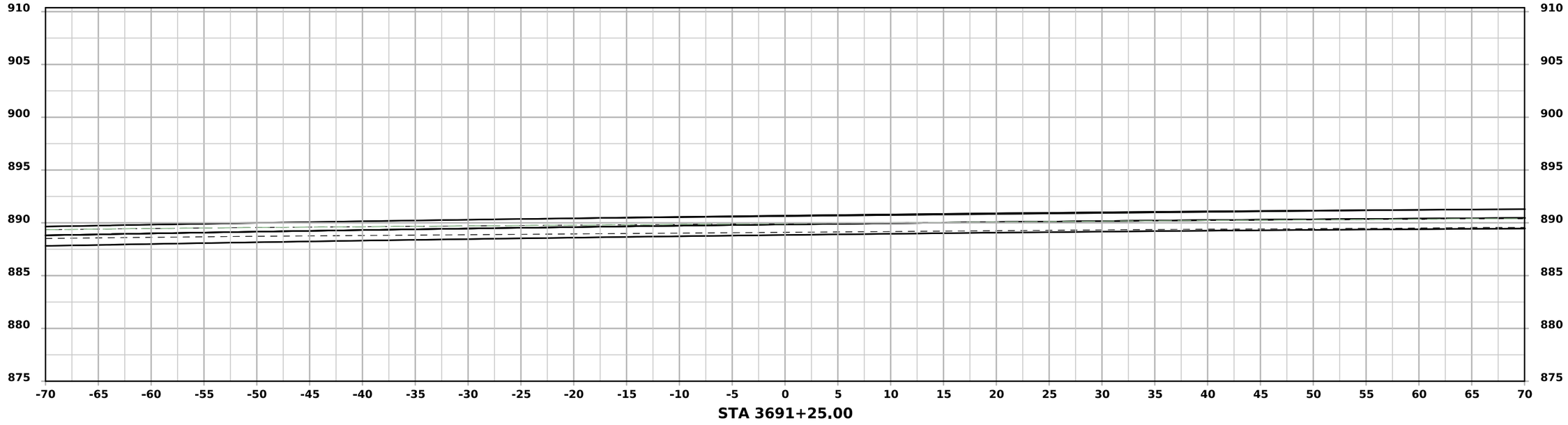
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V2

111th Street - Final Condition



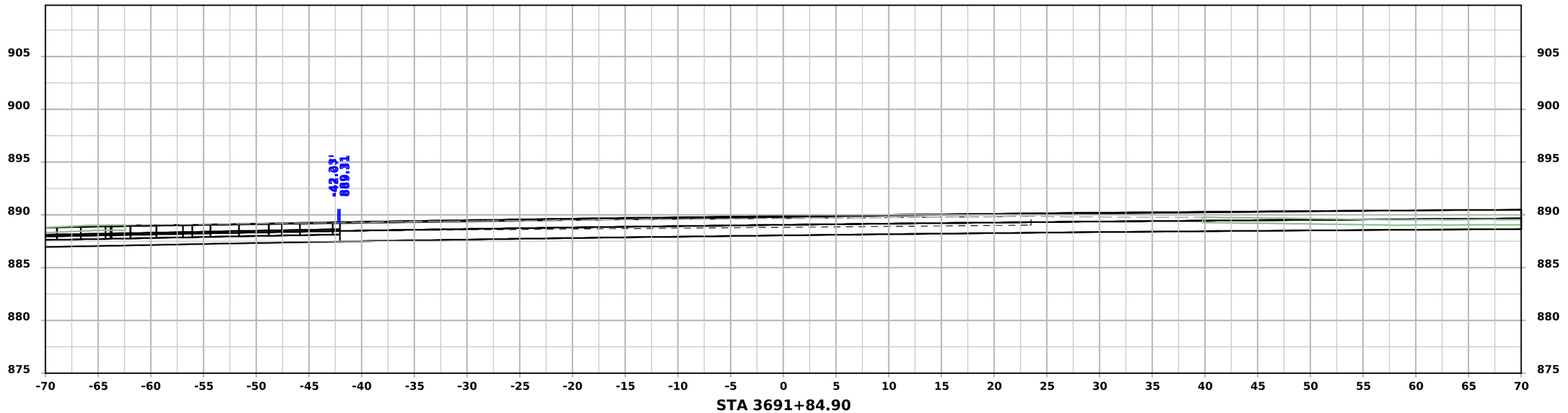


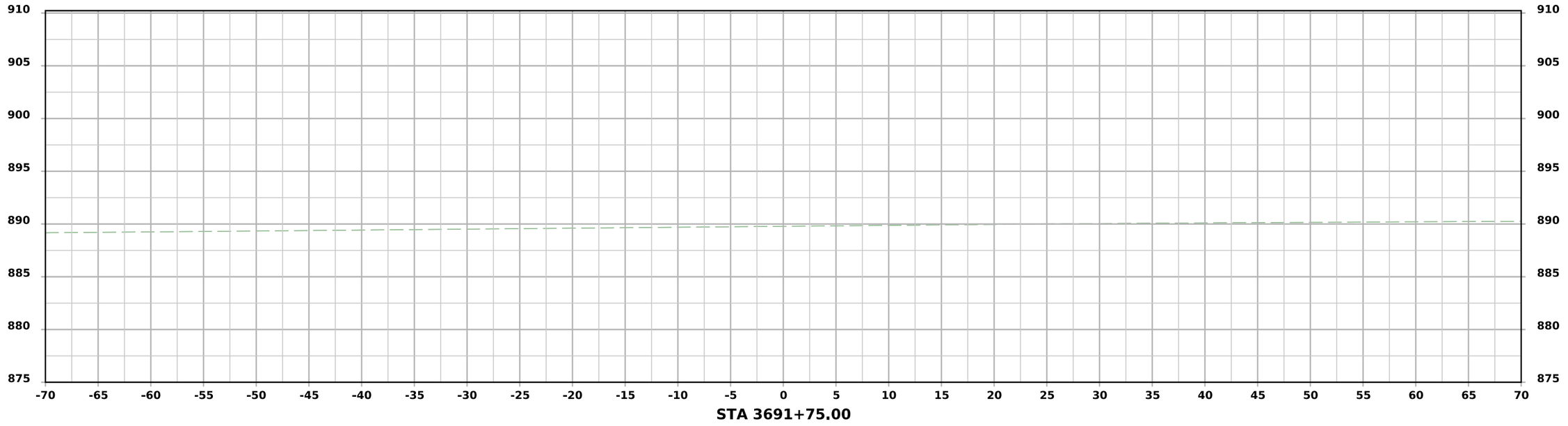
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V2

111th Street - Final Condition



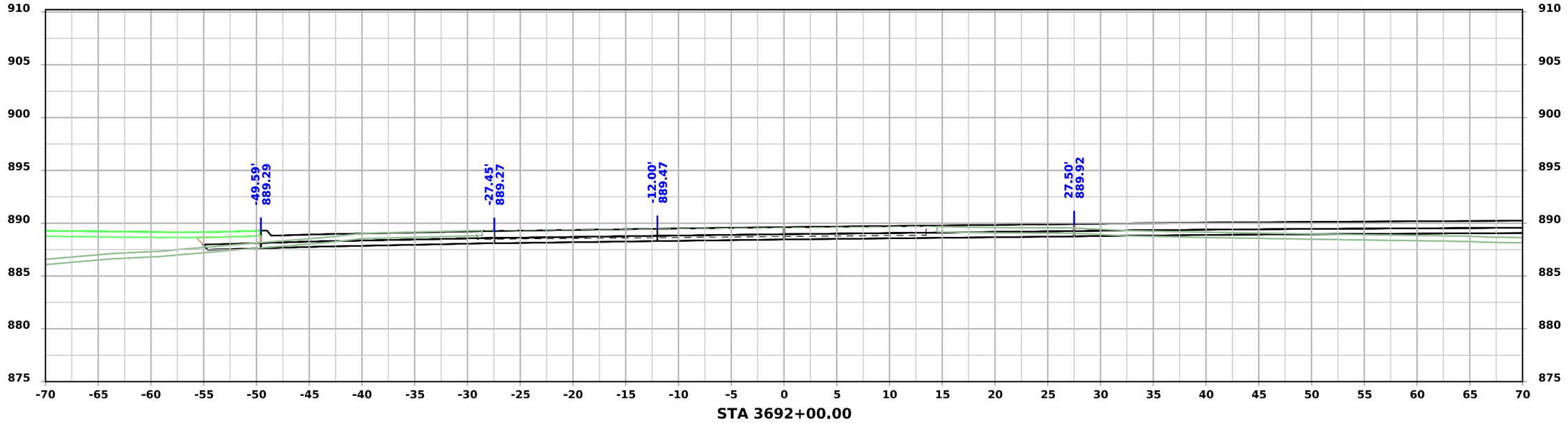


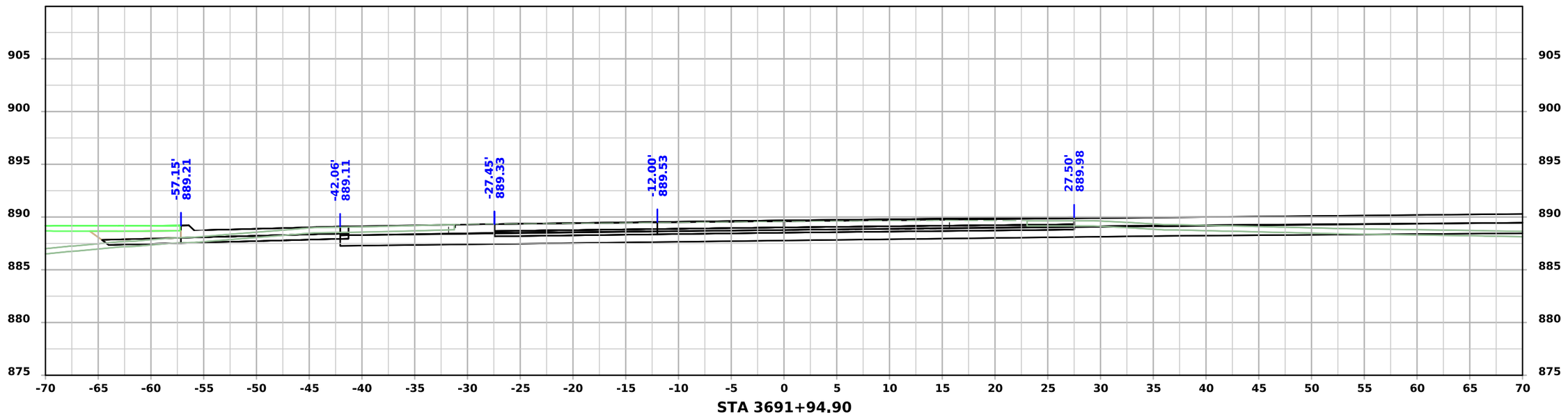
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V2

111th Street - Final Condition



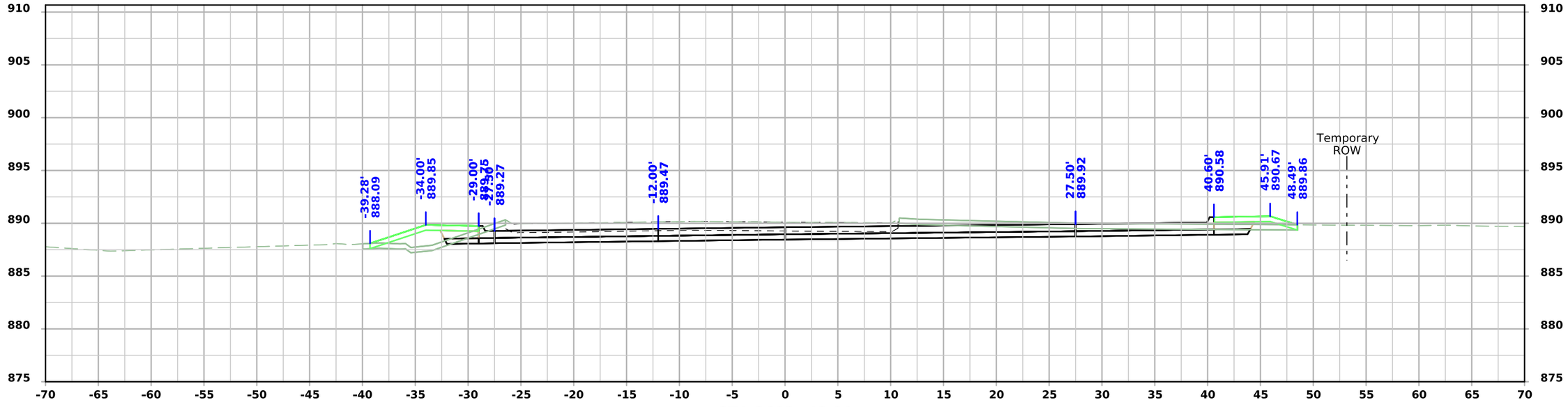


FILE NO. 98765	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER X.127

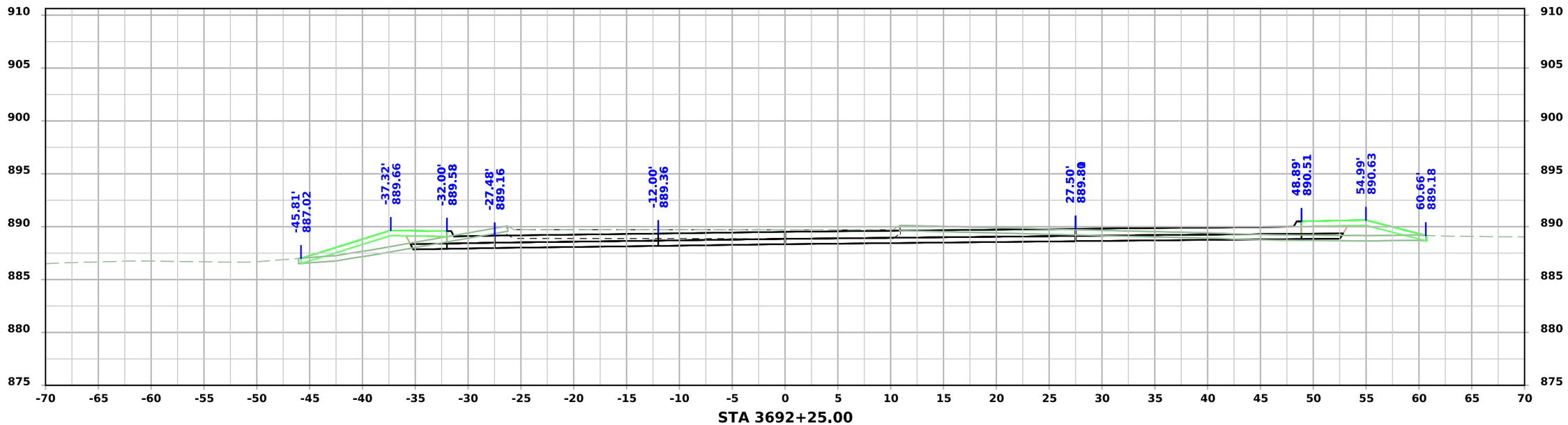
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V2

111th Street - Final Condition



STA 3692+42.90



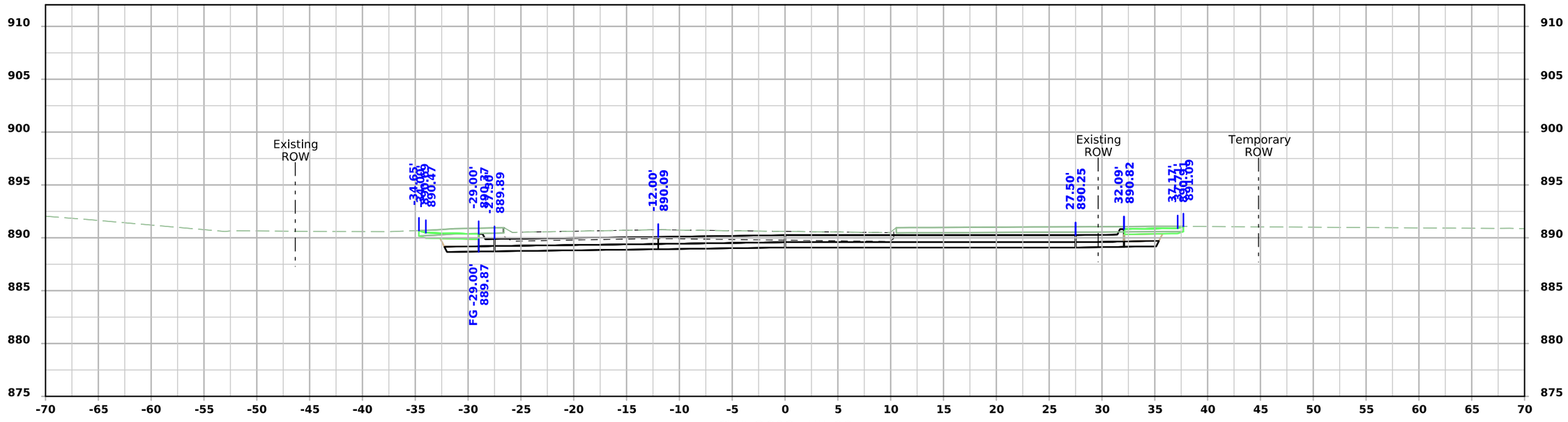
STA 3692+25.00

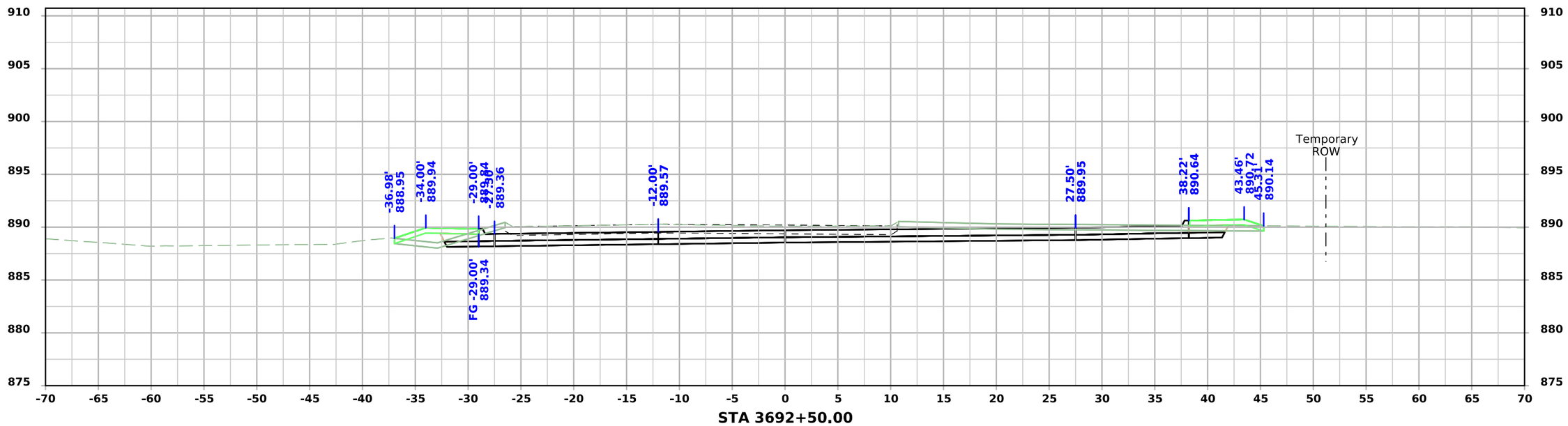
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V2

111th Street - Final Condition



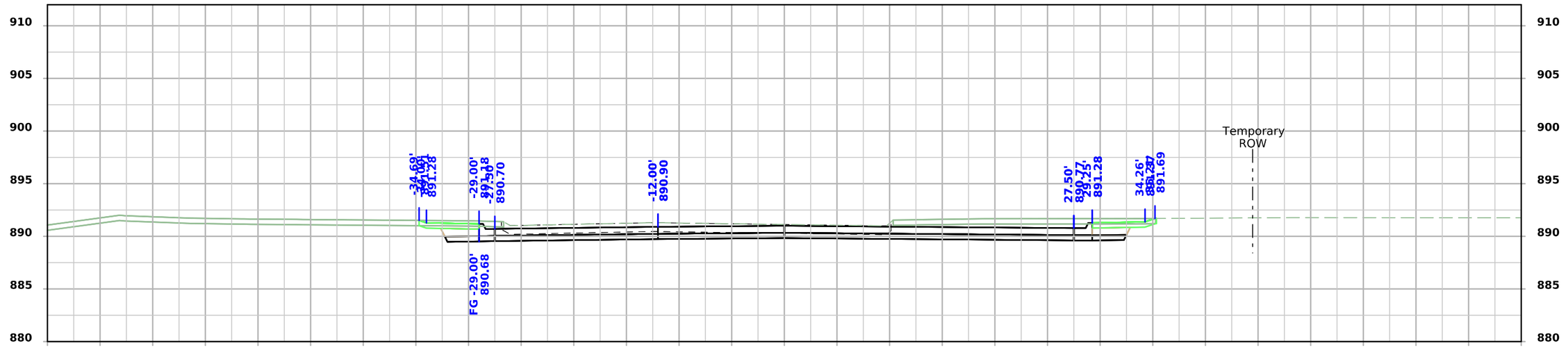


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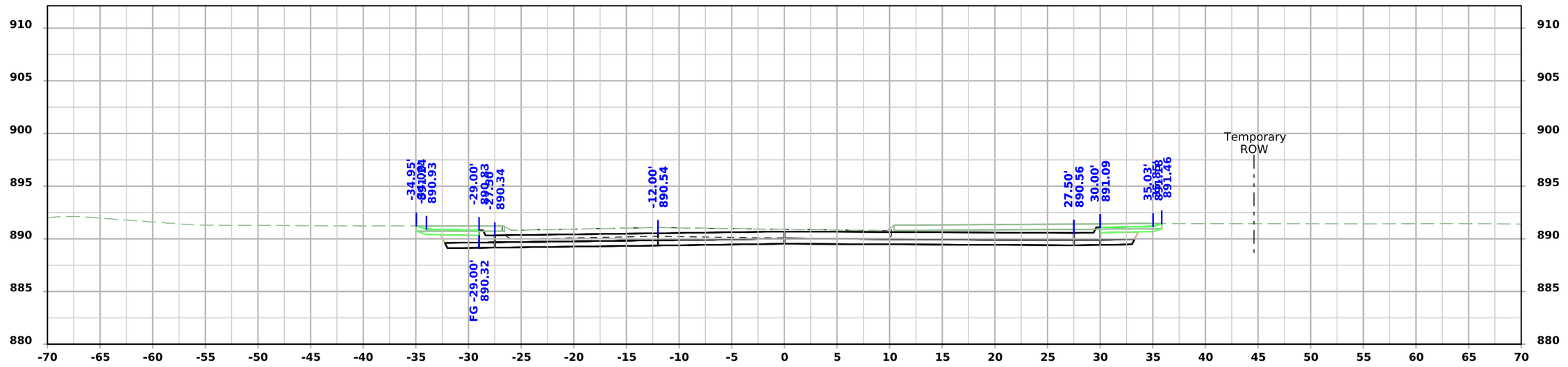
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V2

111th Street - Final Condition



STA 3693+00.00



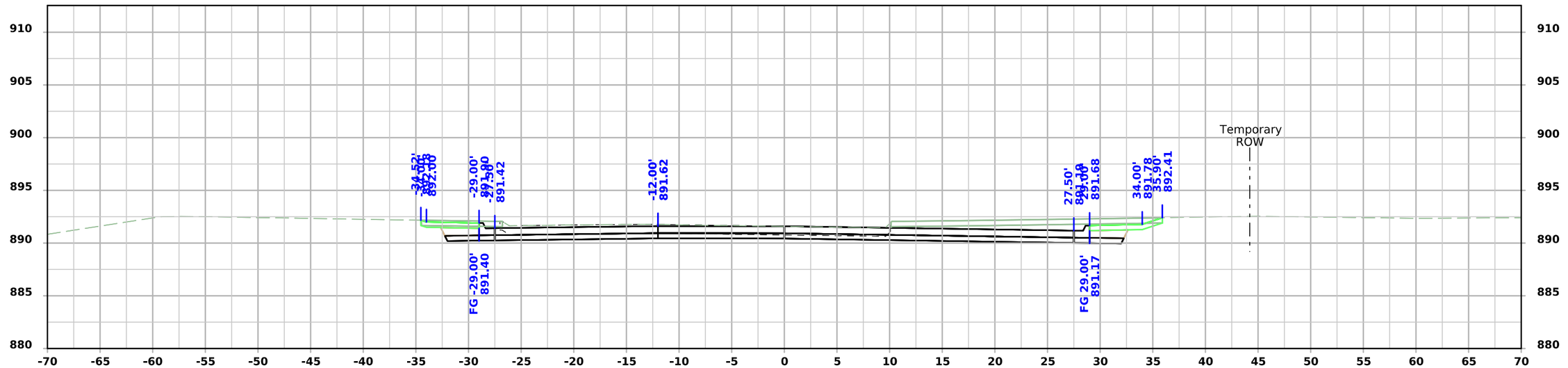
STA 3692+90.00

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER X.130

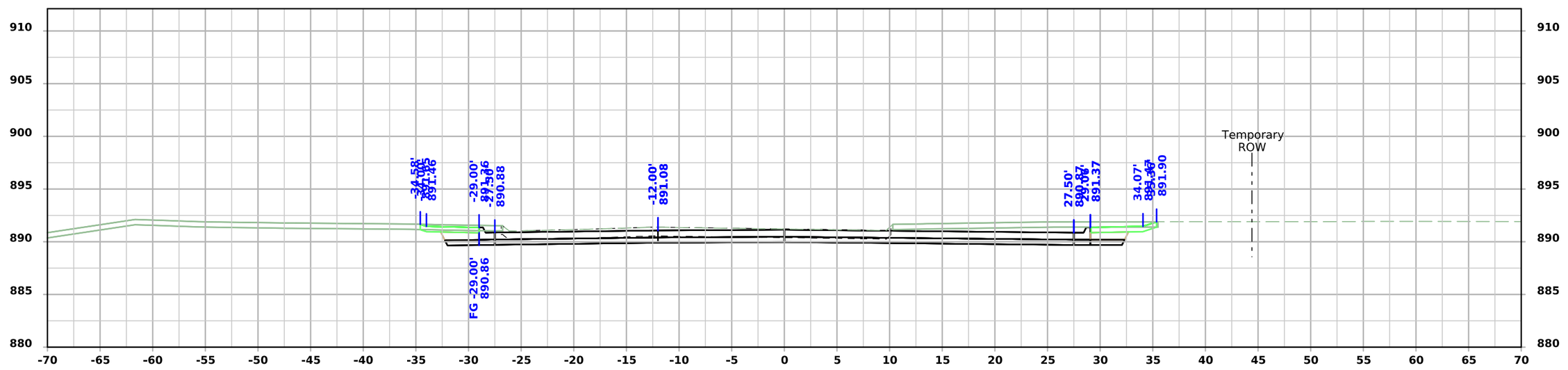
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V2

111th Street - Final Condition



STA 3693+20.00



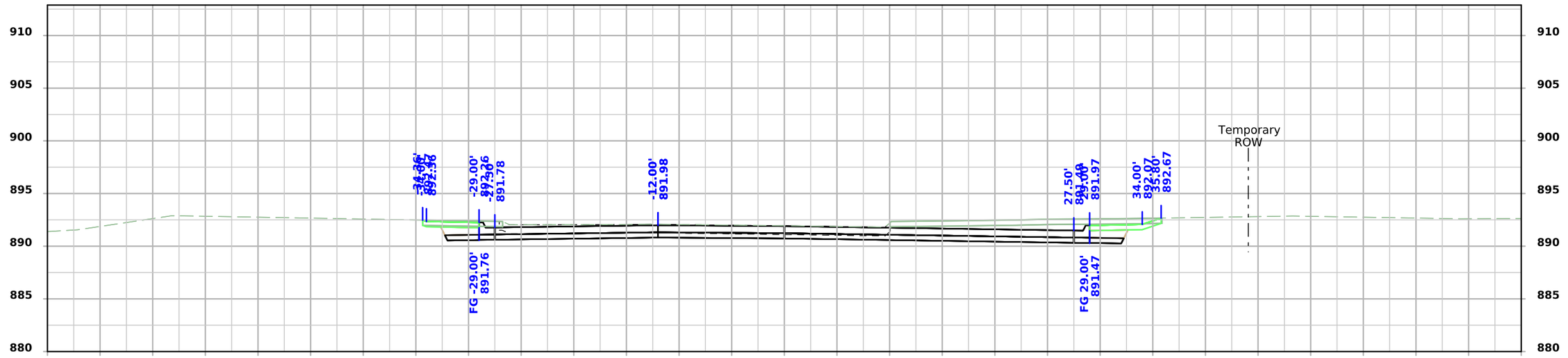
STA 3693+05.00

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER X.131

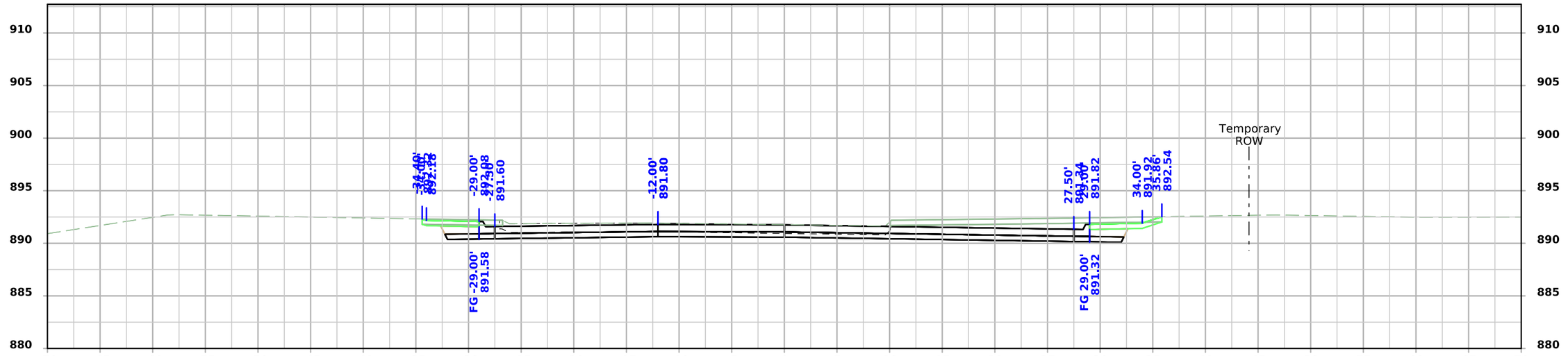
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V2

111th Street - Final Condition



STA 3693+30.00



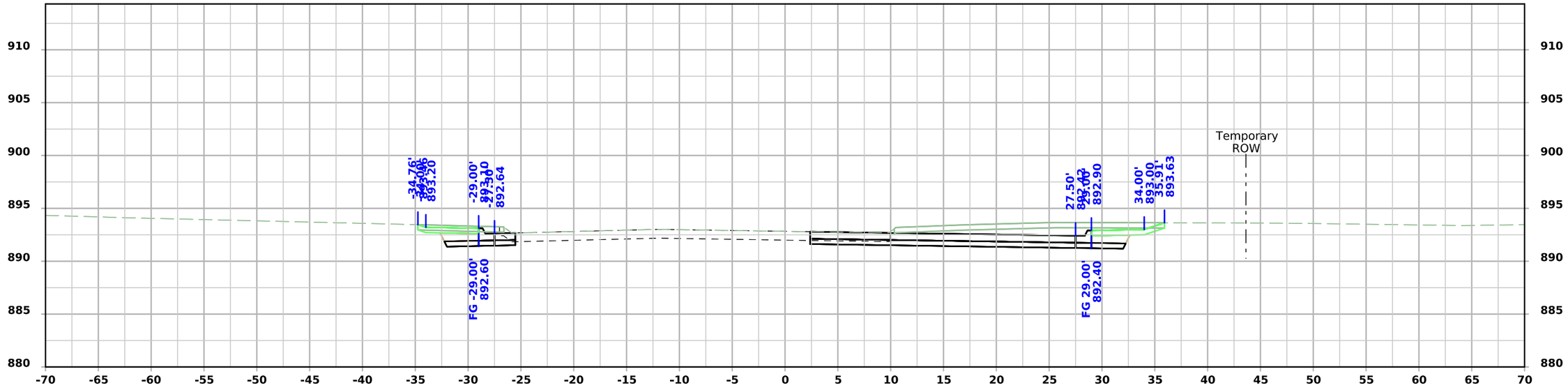
STA 3693+25.00

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER X.132	

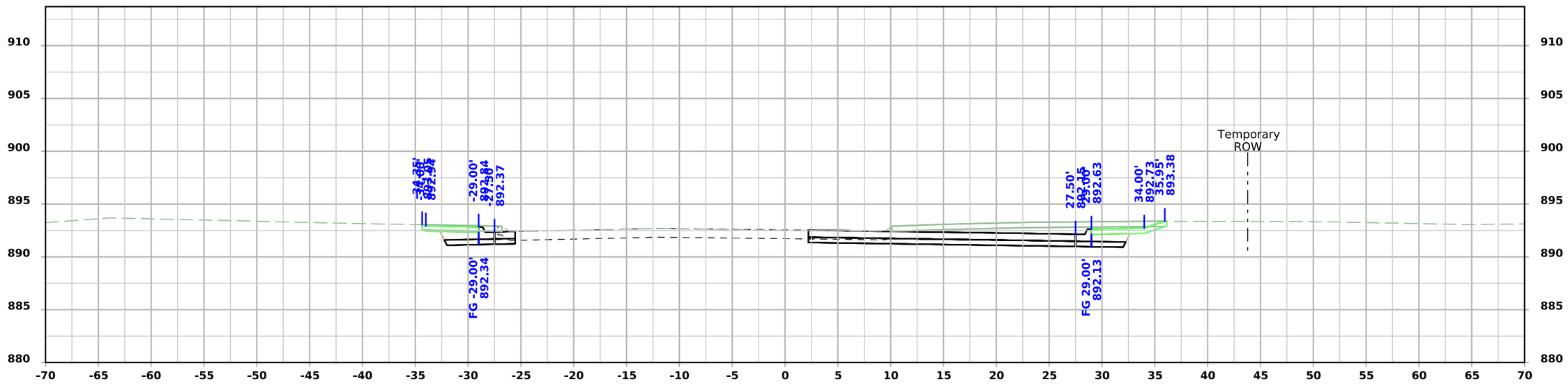
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V2

111th Street - Final Condition



STA 3693+62.50



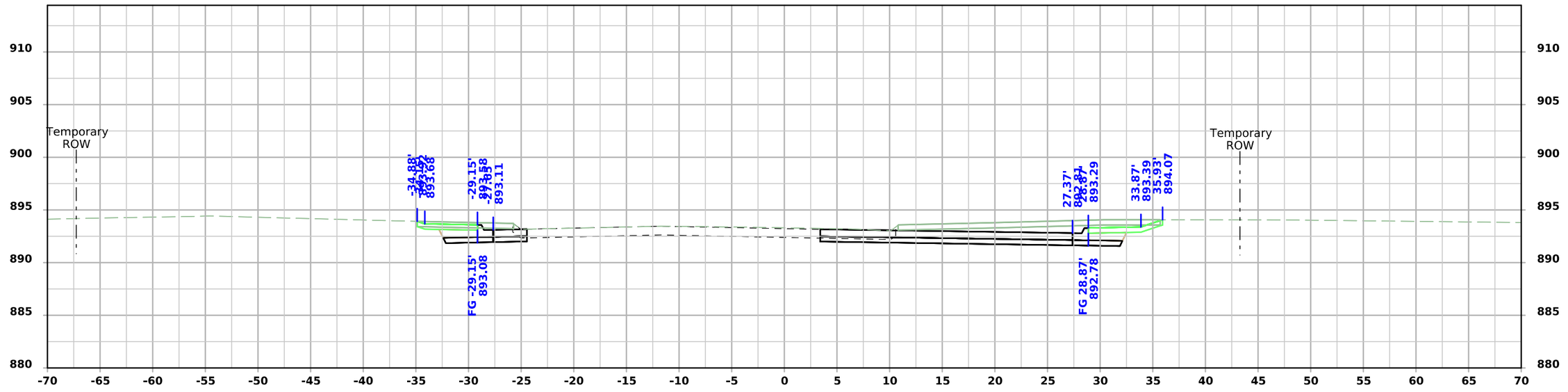
STA 3693+50.00

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER X.133	

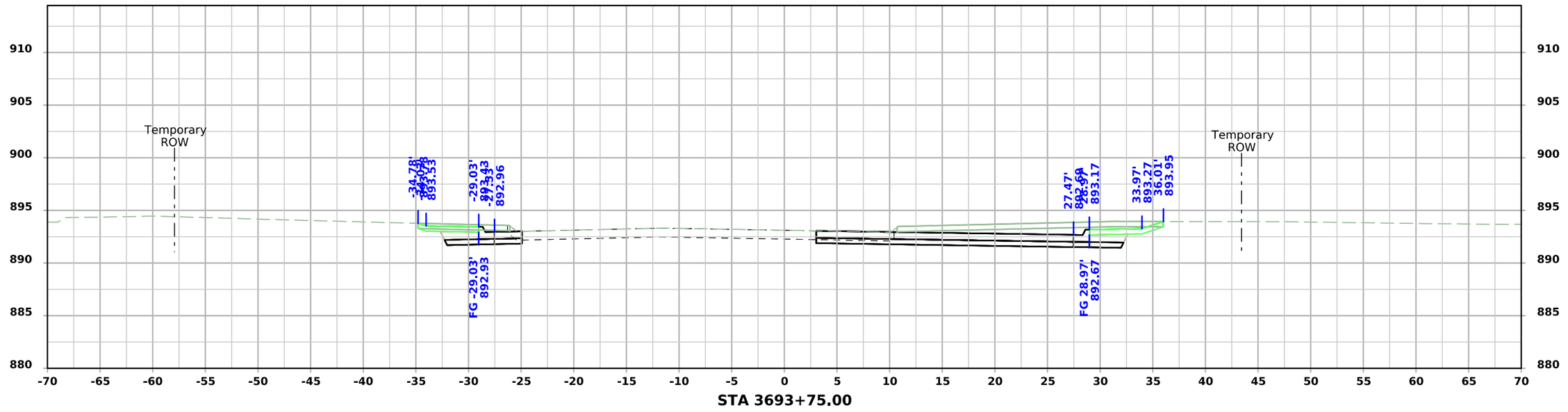
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V2

111th Street - Final Condition



STA 3693+80.28



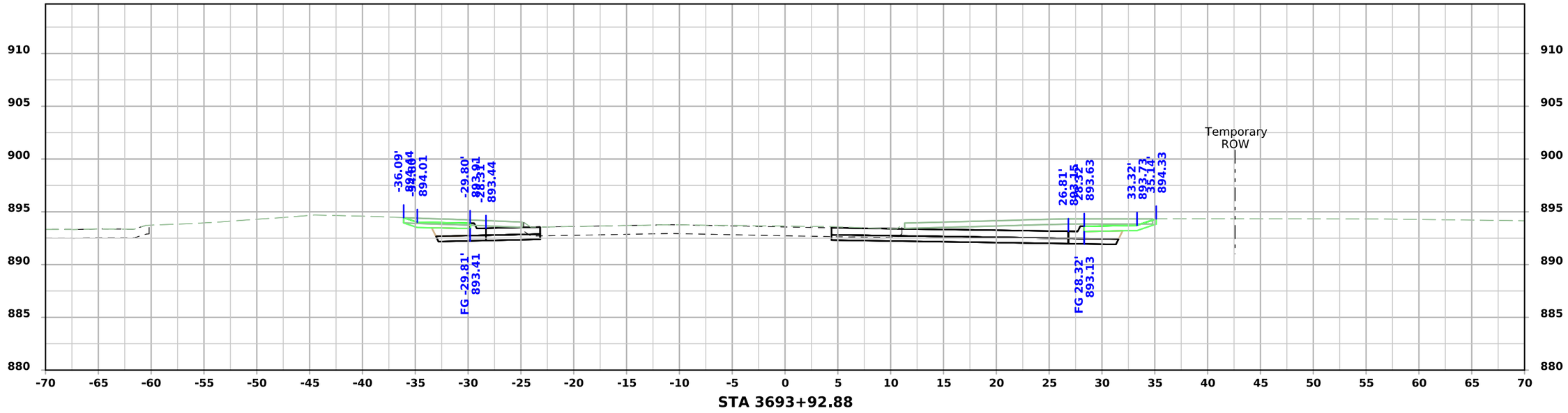
STA 3693+75.00

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER X.134

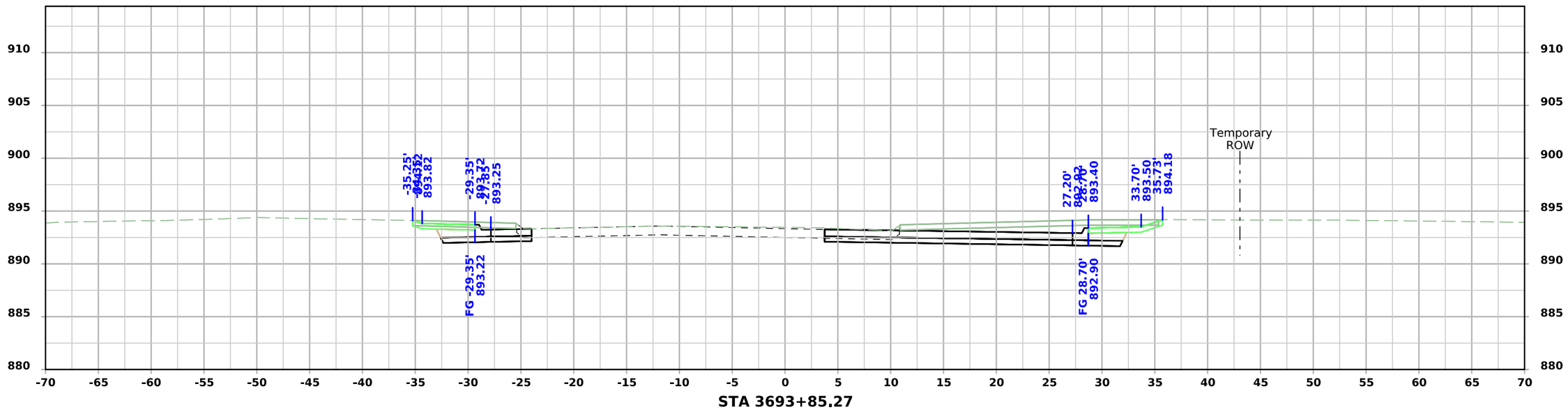
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V2

111th Street - Final Condition



STA 3693+92.88



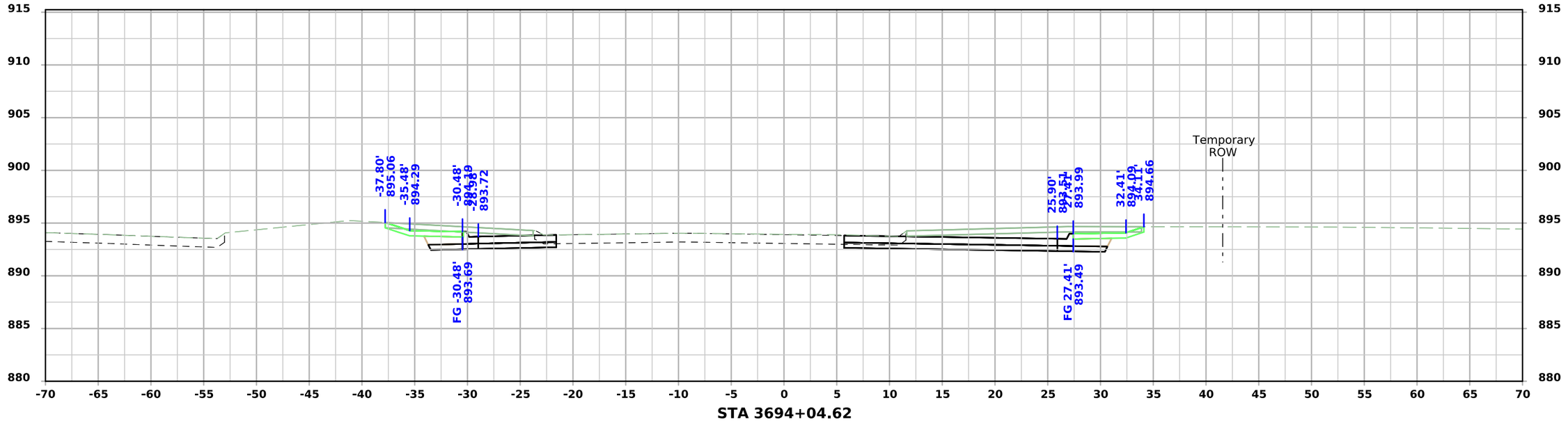
STA 3693+85.27

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER X.135

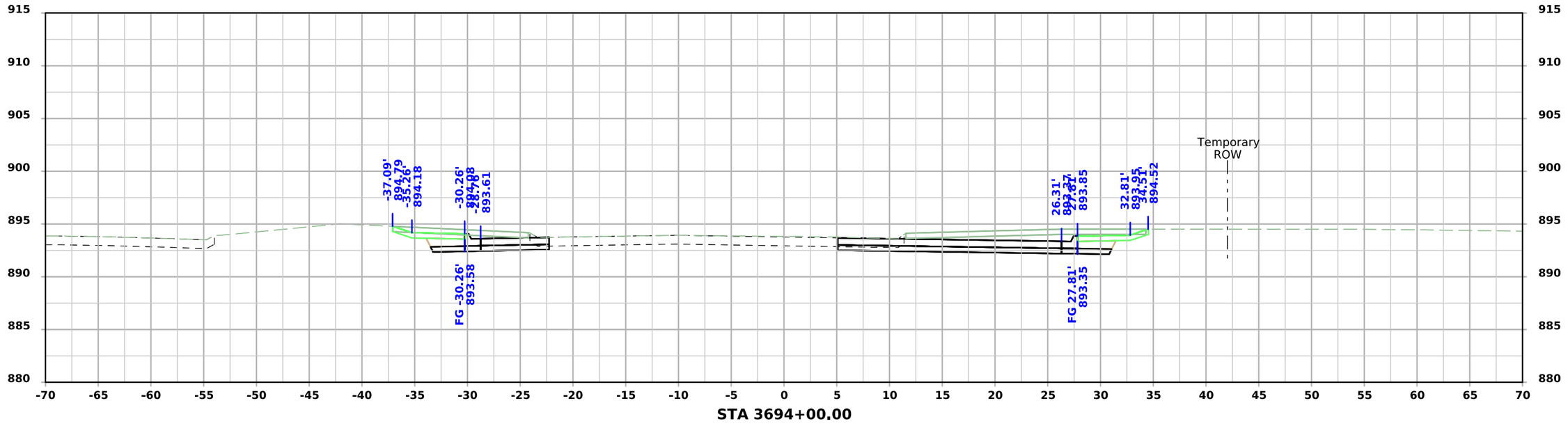
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V2

111th Street - Final Condition



STA 3694+04.62



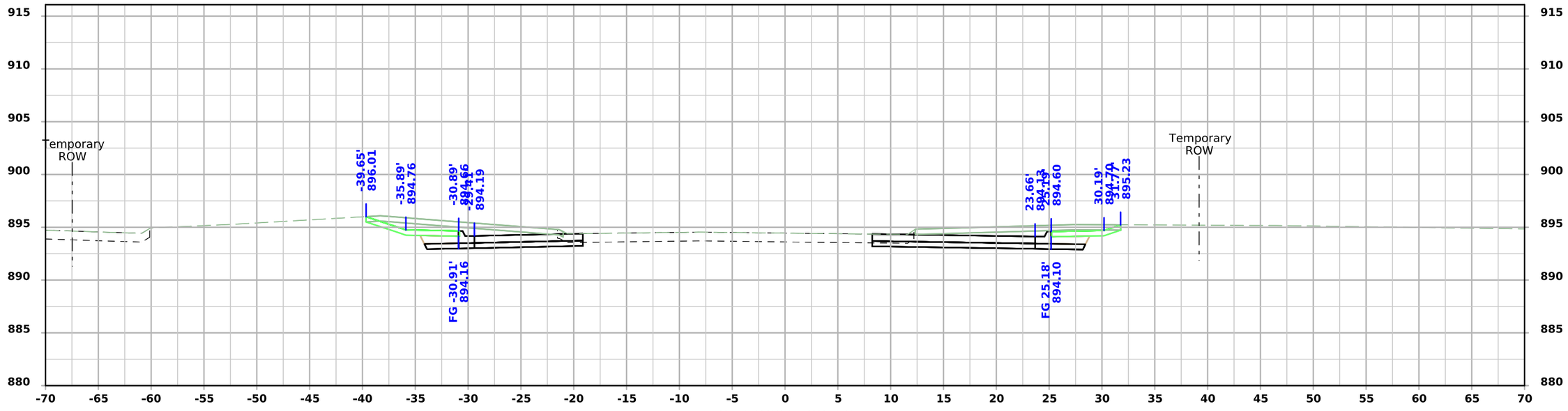
STA 3694+00.00

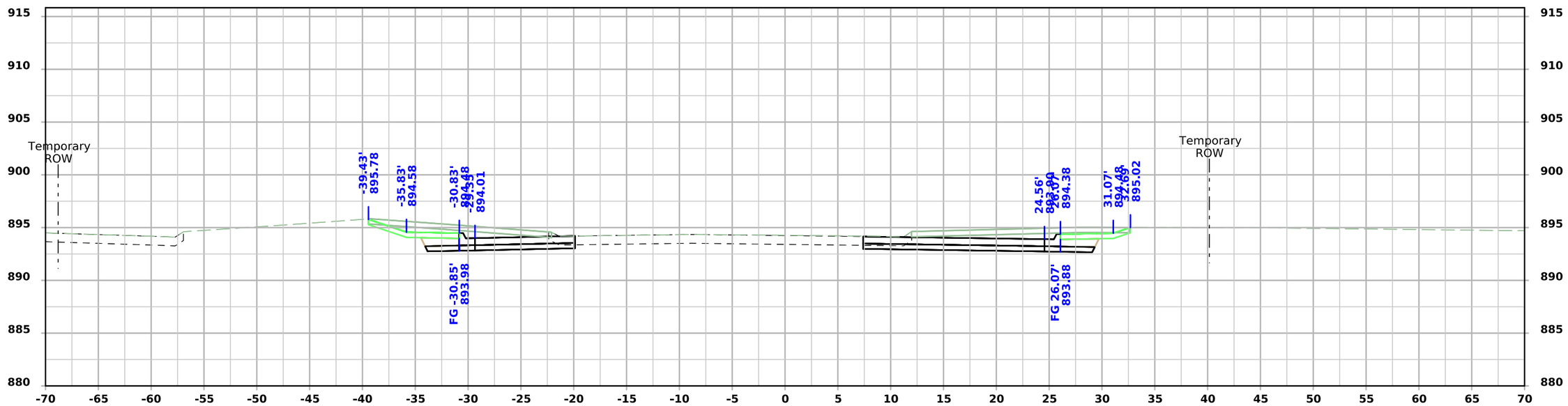
FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER X.136

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V2

111th Street - Final Condition



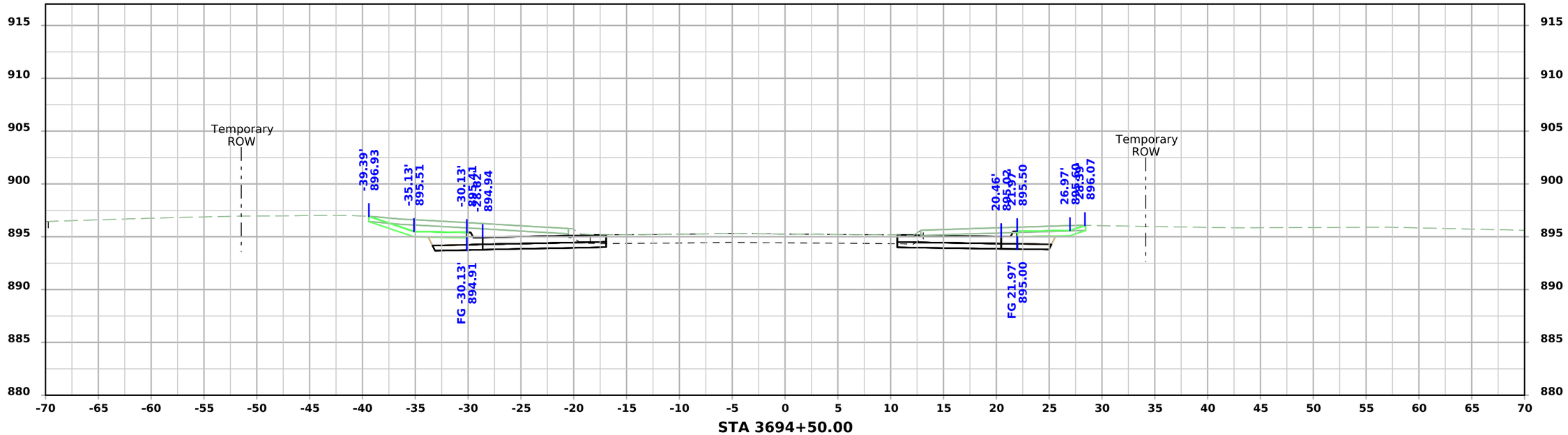


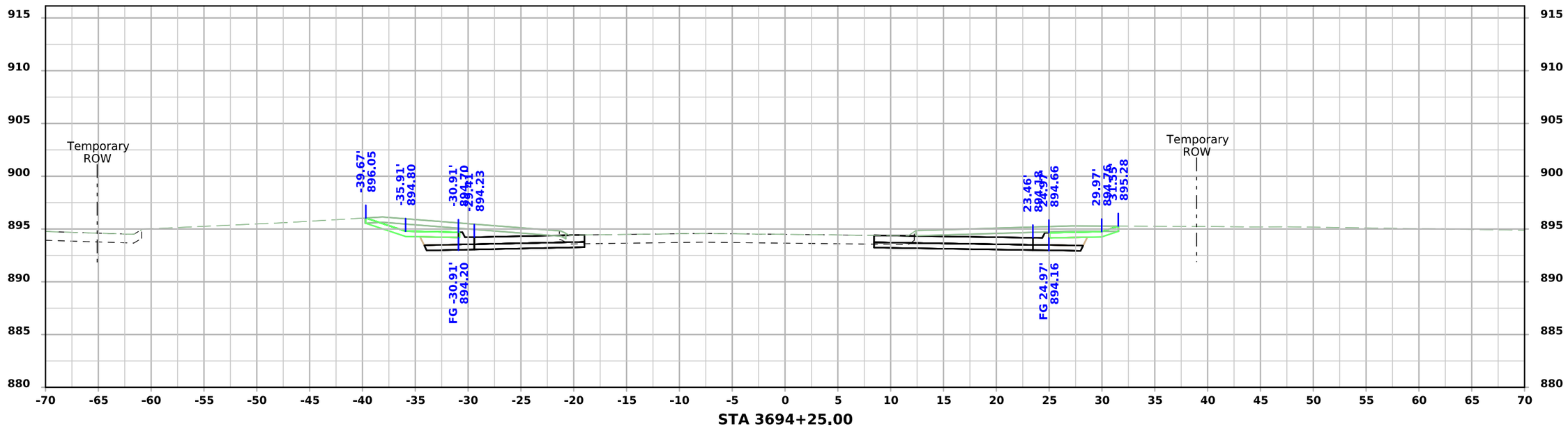
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V2

111th Street - Final Condition



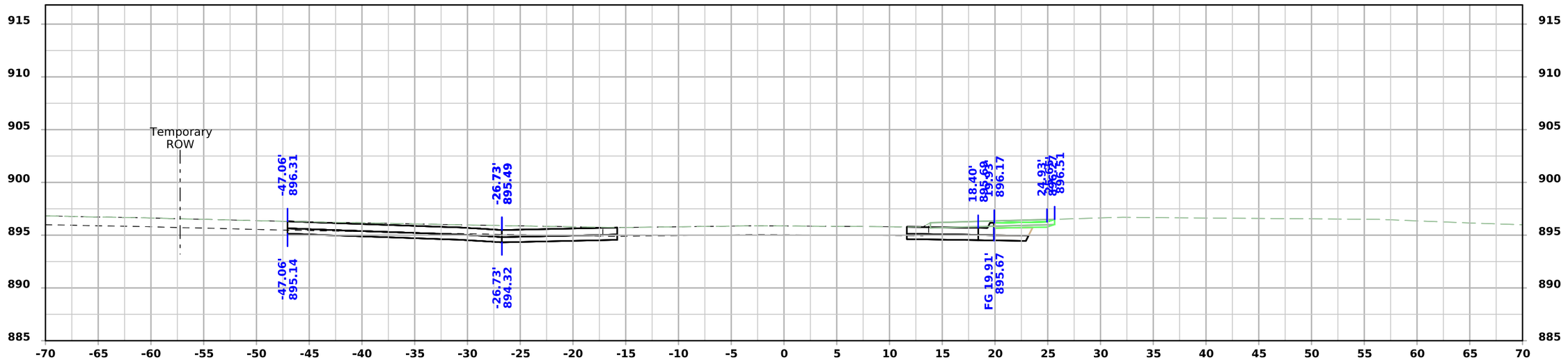


FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER X.138

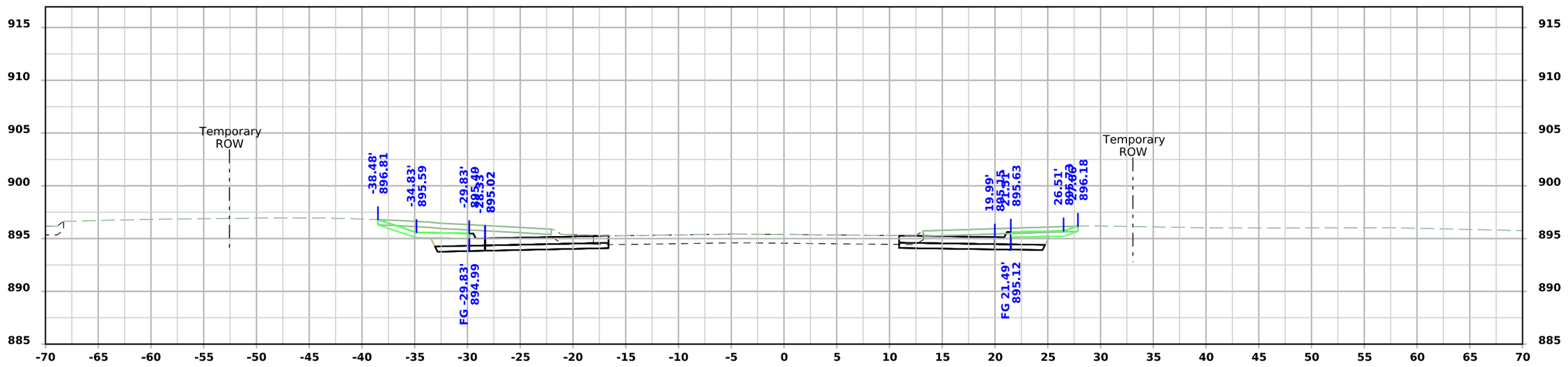
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V2

111th Street - Final Condition



STA 3694+70.97



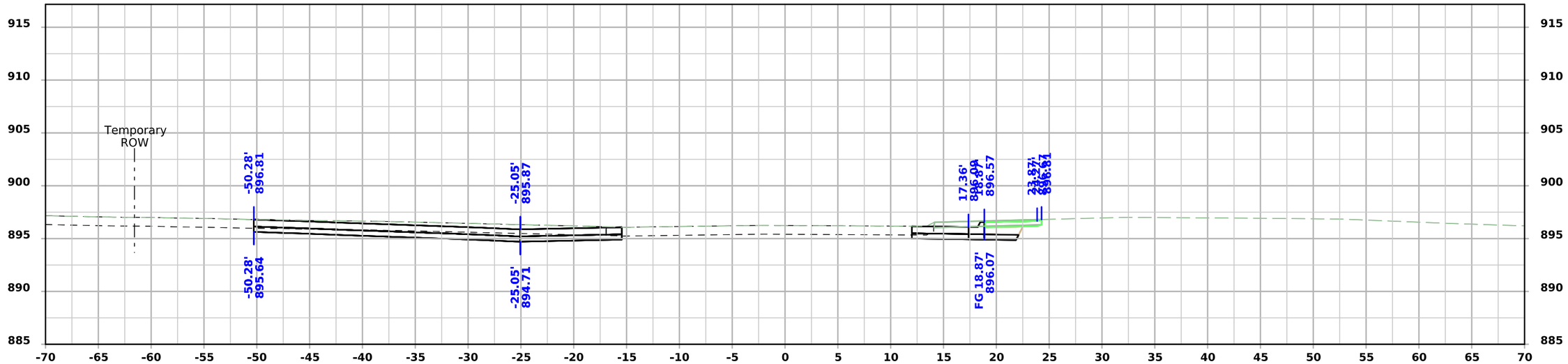
STA 3694+54.52

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER X.139

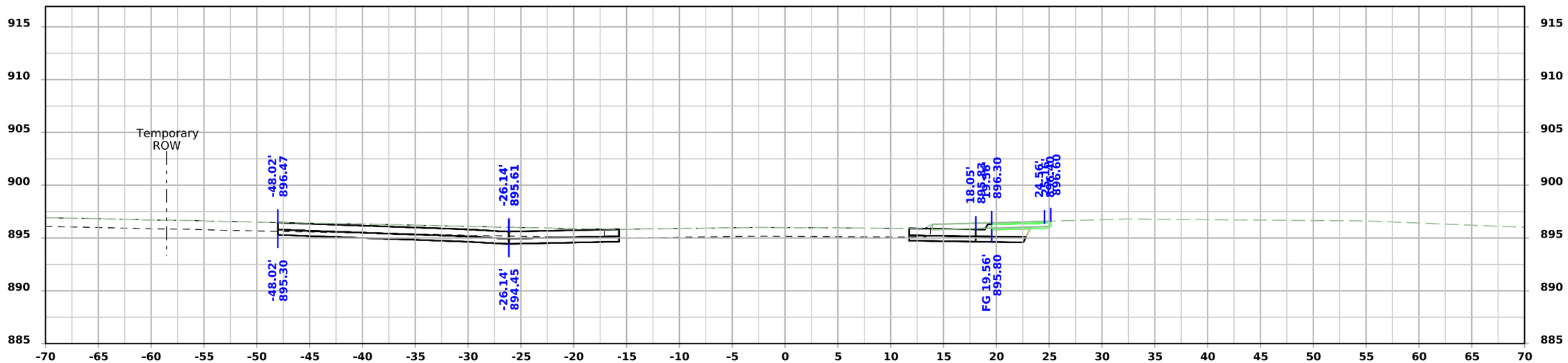
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V2

111th Street - Final Condition



STA 3694+83.66



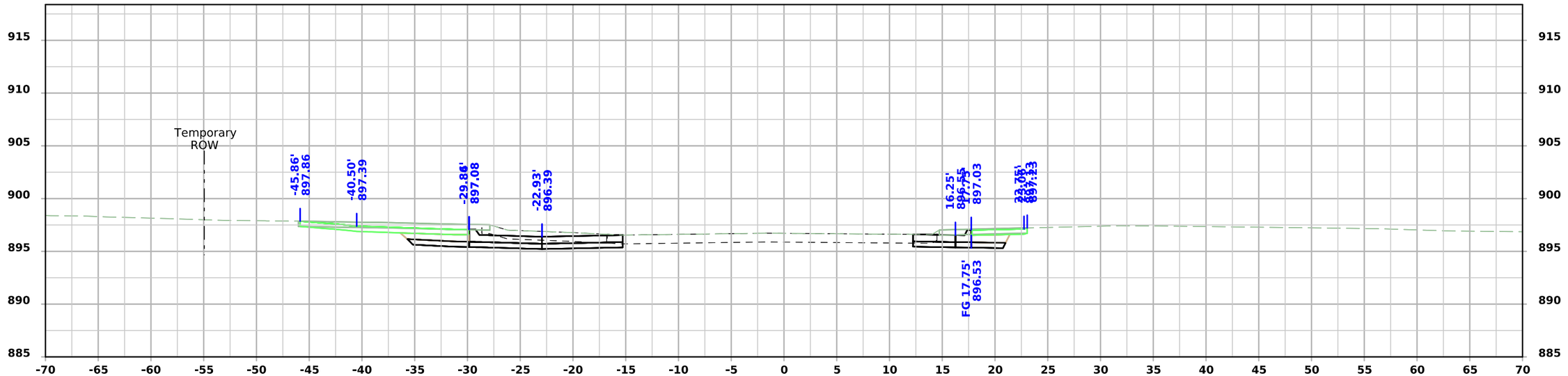
STA 3694+75.00

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER X.140

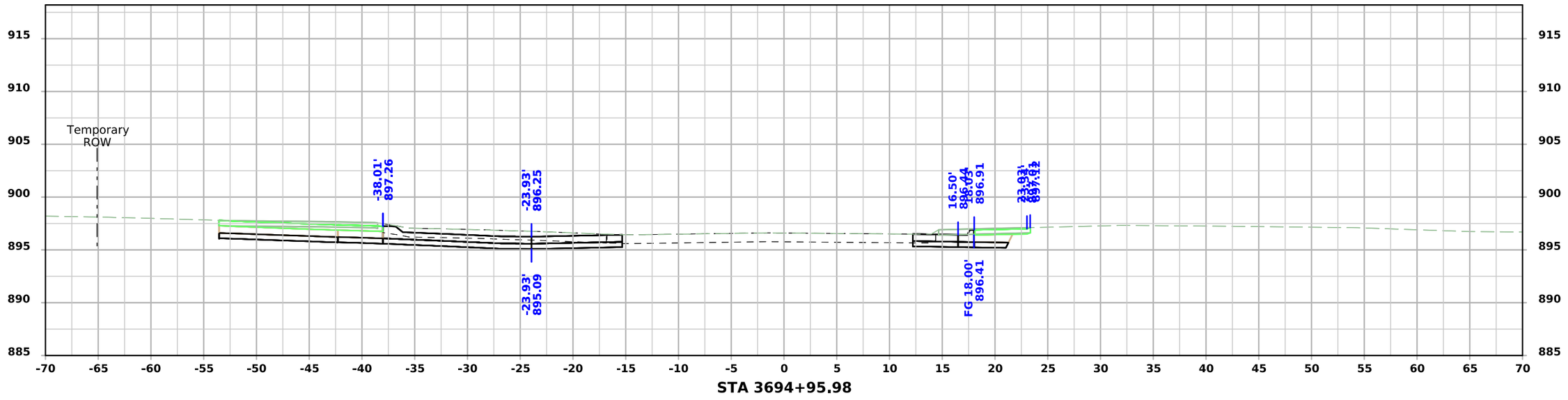
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V2

111th Street - Final Condition



STA 3695+00.00



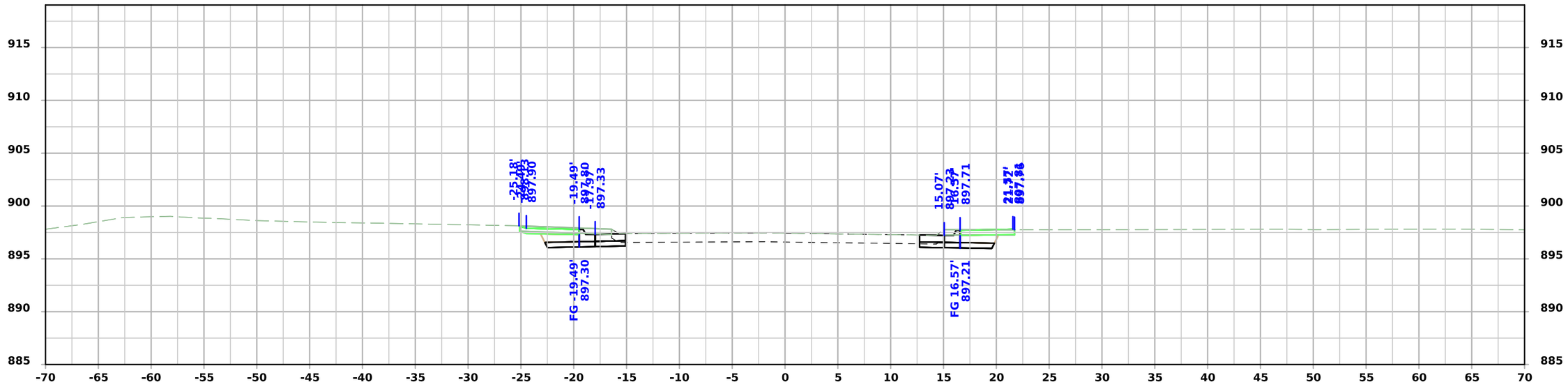
STA 3694+95.98

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER X.141

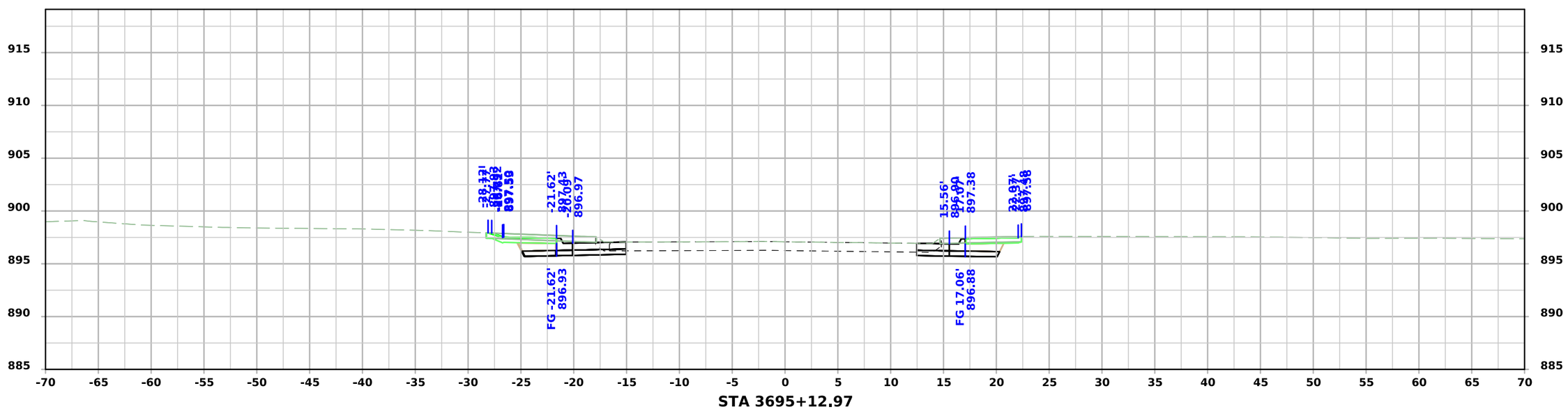
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V2

111th Street - Final Condition



STA 3695+25.00



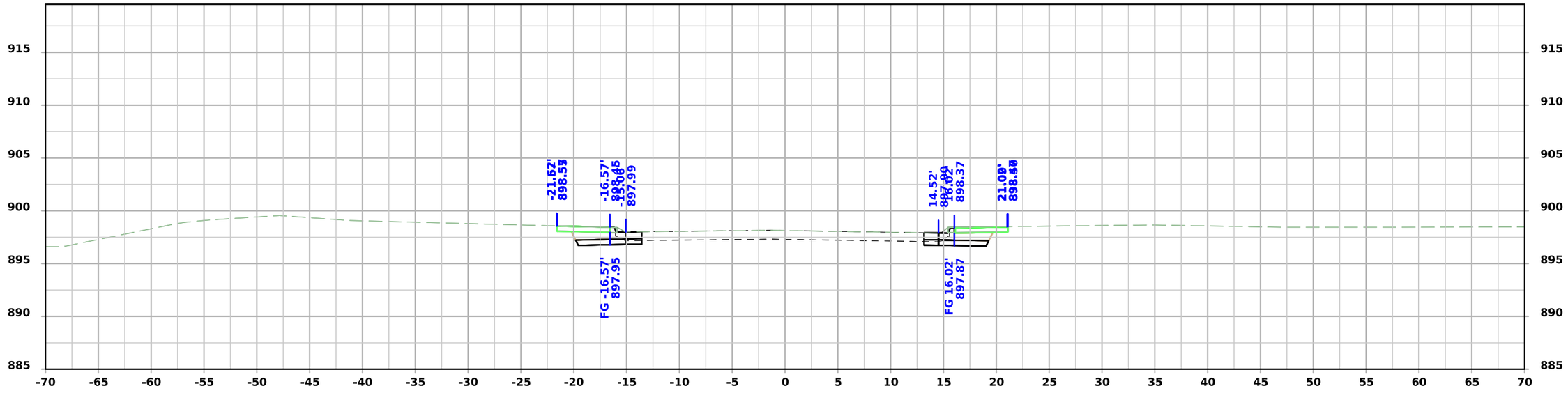
STA 3695+12.97

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER X.142

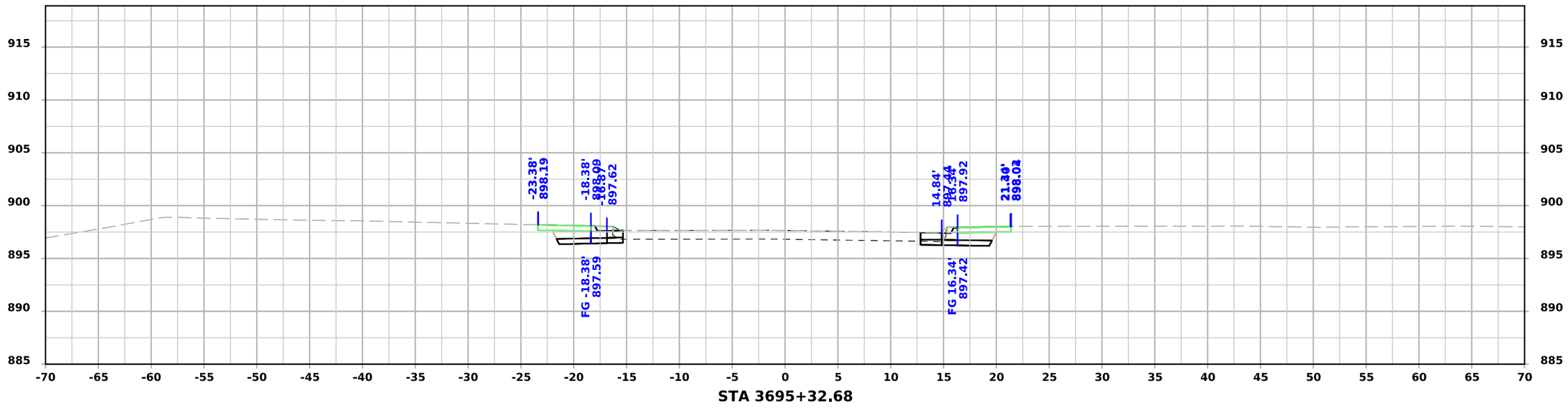
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V2

111th Street - Final Condition



STA 3695+50.00



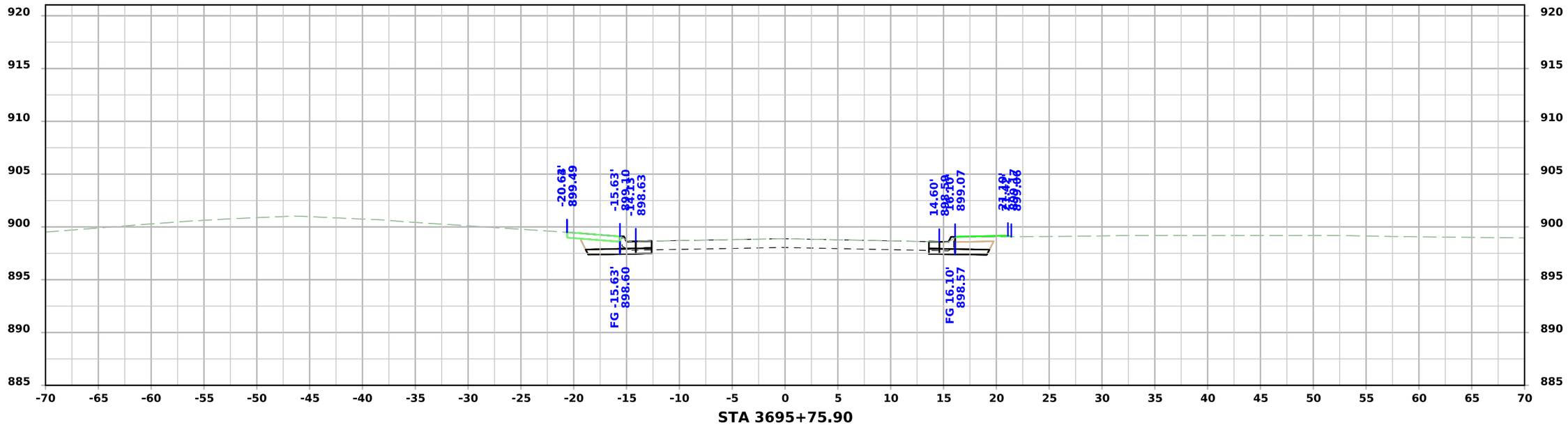
STA 3695+32.68

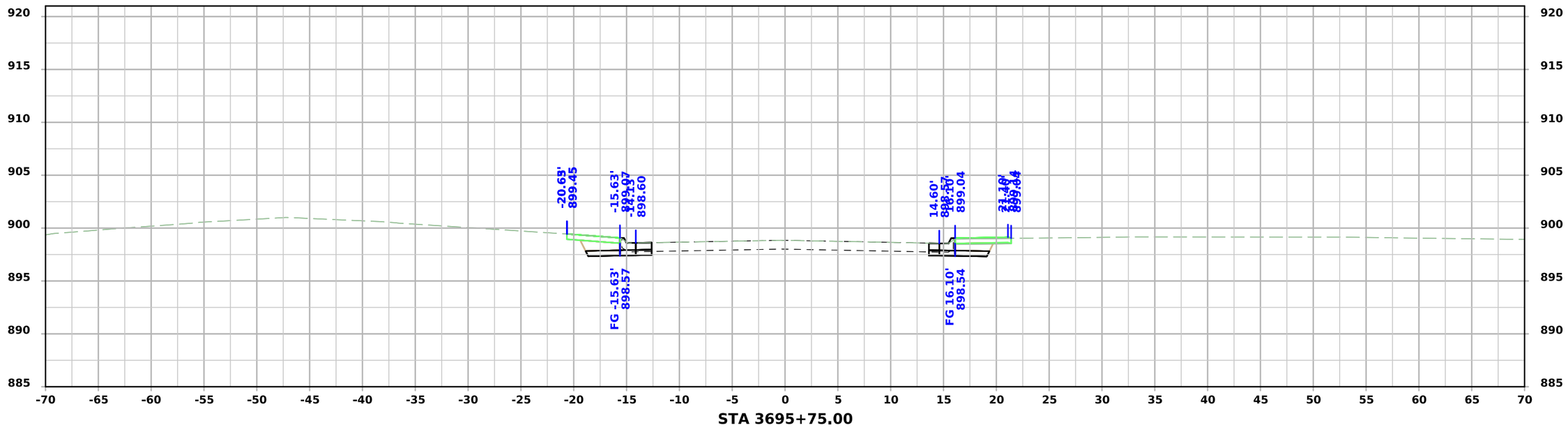
FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER X.143

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V2

111th Street - Final Condition



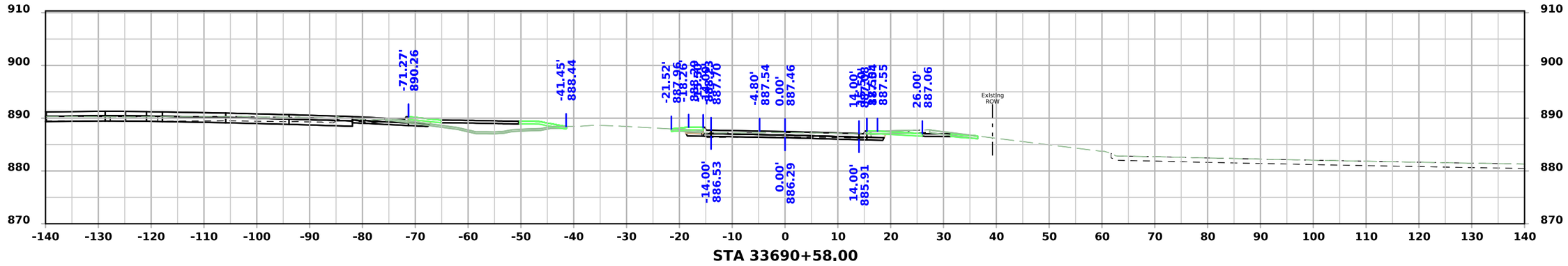


FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER X.144

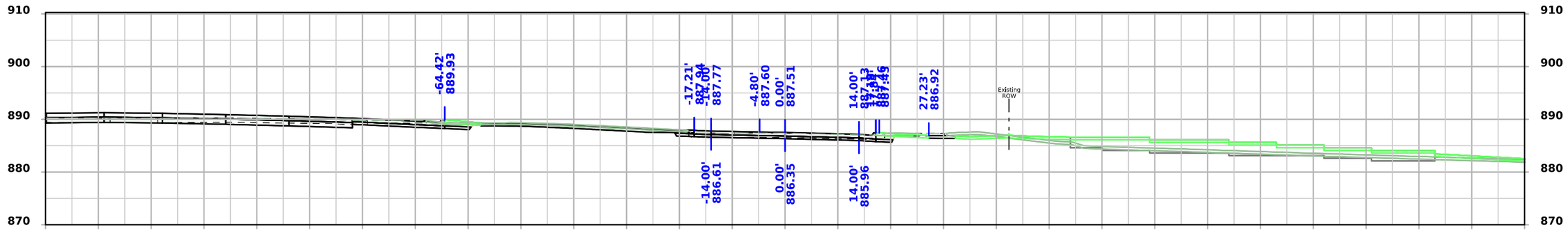
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V2

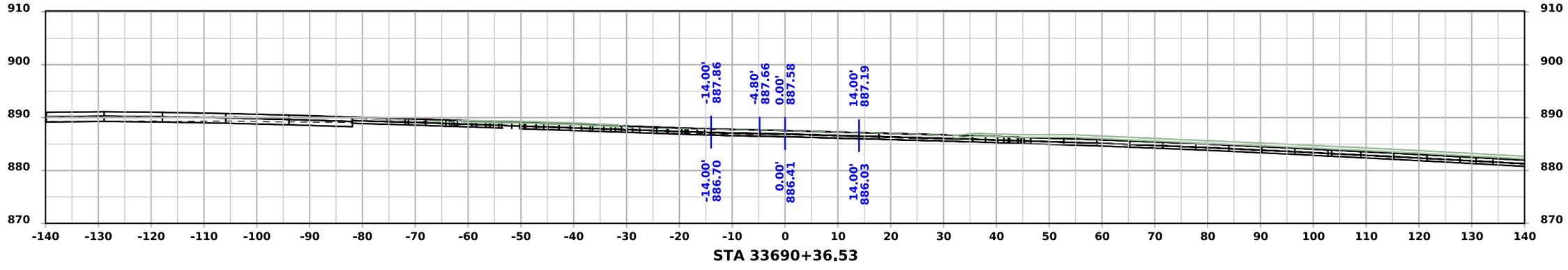
Frontage Road - Final Condition



STA 33690+58.00



STA 33690+50.00



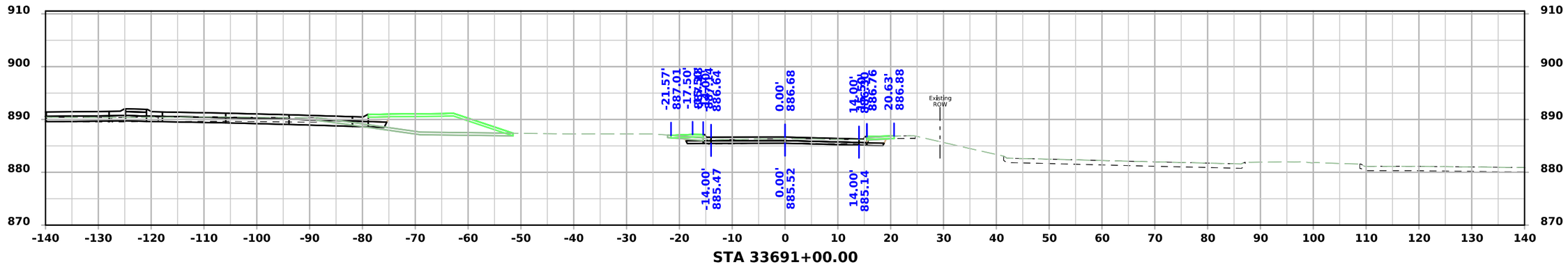
STA 33690+36.53

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER X.200

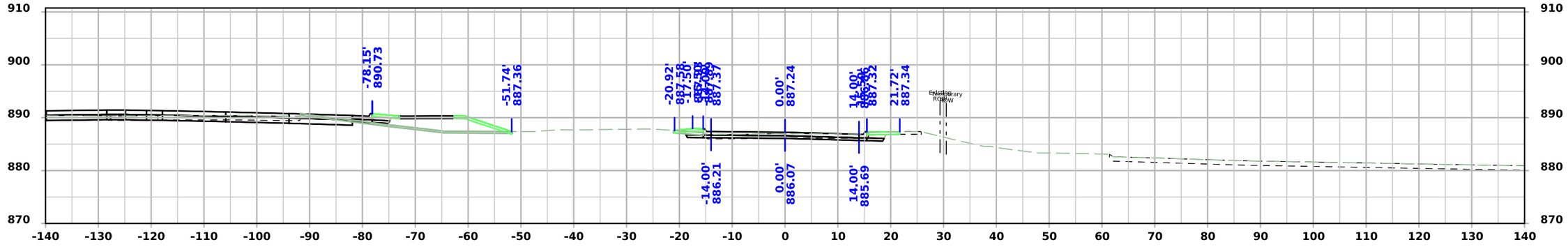
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V2

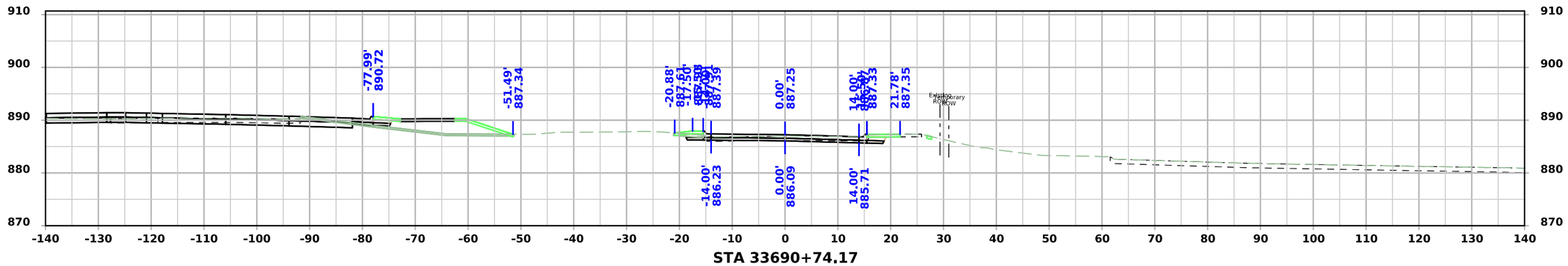
Frontage Road - Final Condition



STA 33691+00.00



STA 33690+75.00



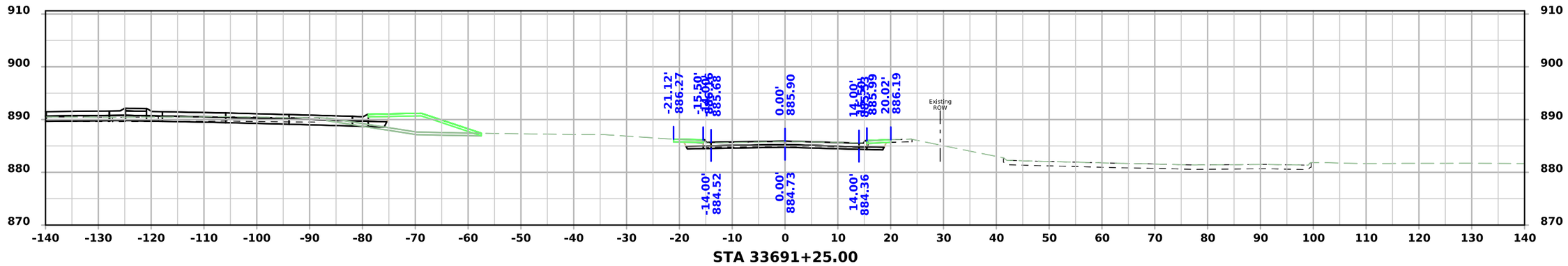
STA 33690+74.17

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER X.201

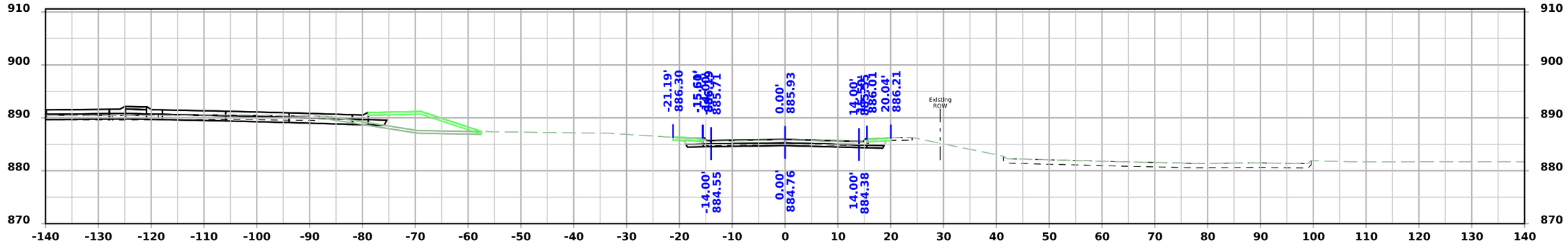
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V2

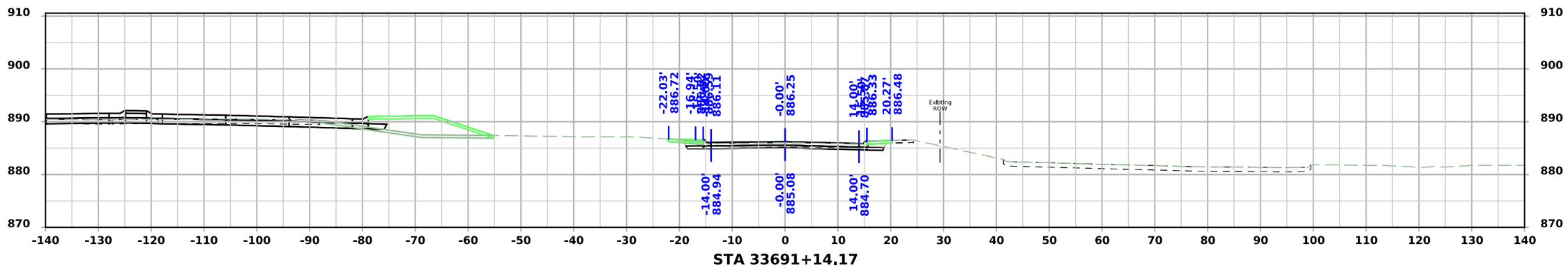
Frontage Road - Final Condition



STA 33691+25.00



STA 33691+24.20



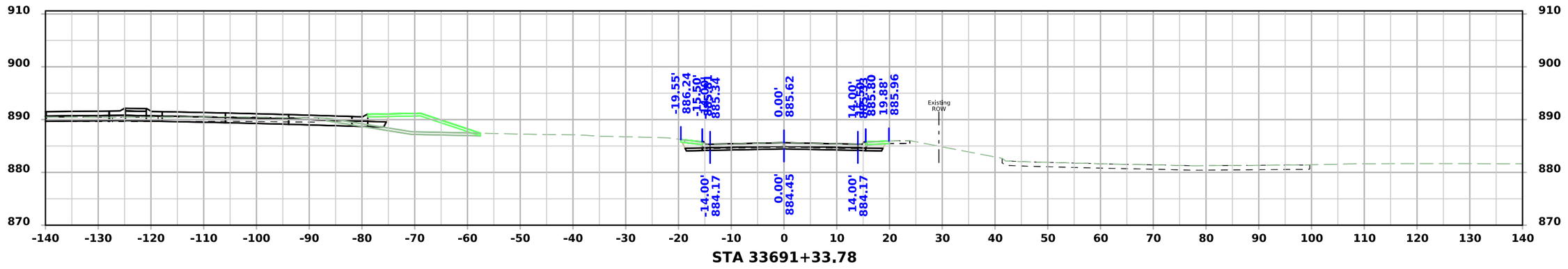
STA 33691+14.17

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER X.202

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V2

Frontage Road - Final Condition



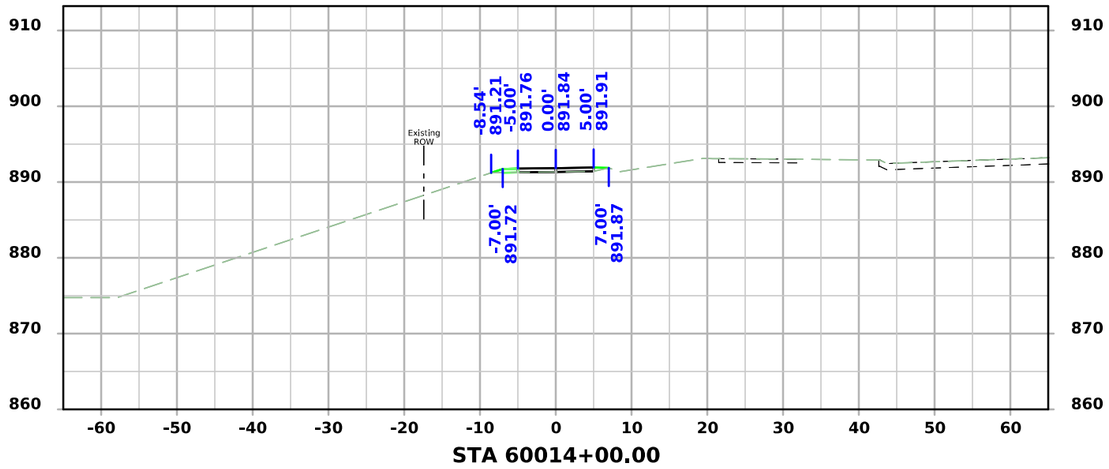
STA 33691+33.78

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER X.203

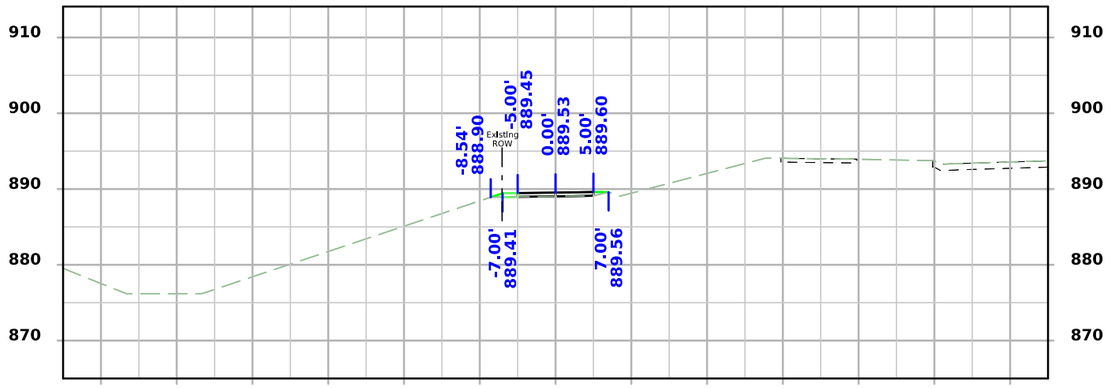
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V2

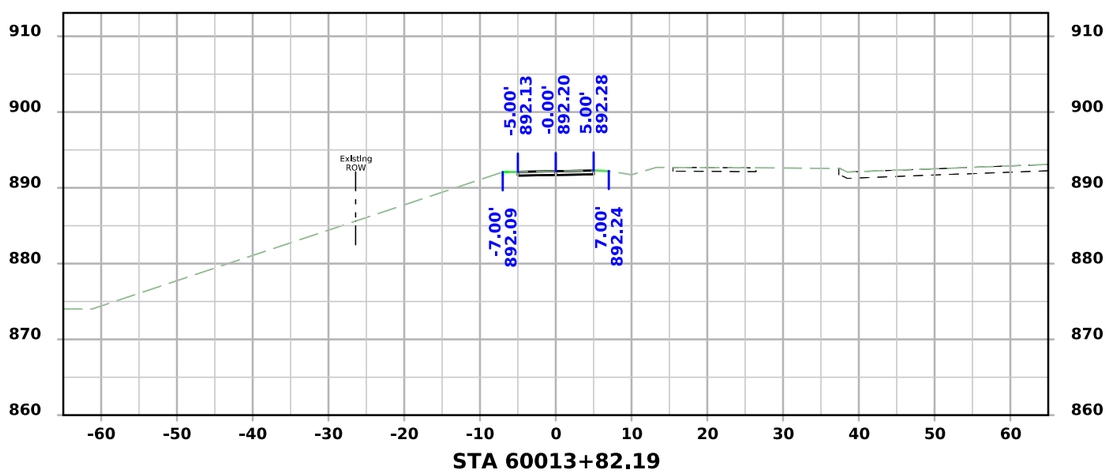
I-80/35 Trail - Final Condition



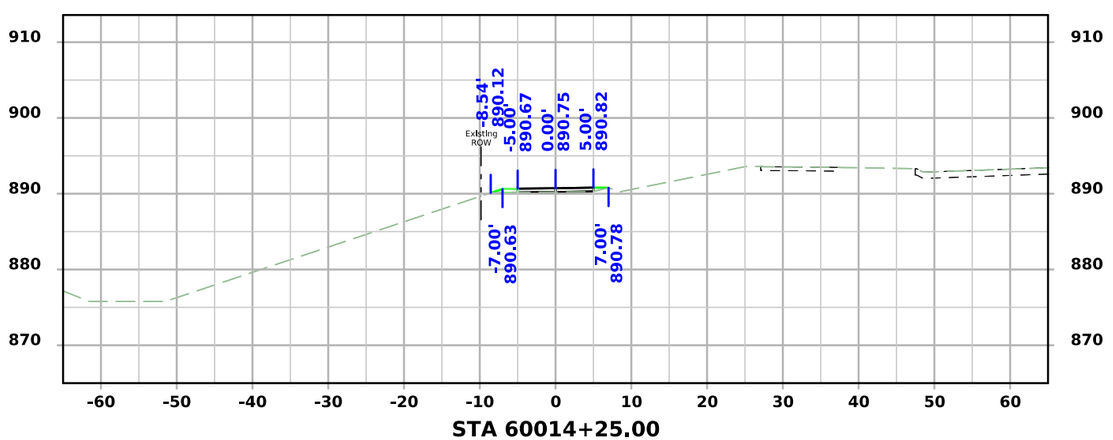
STA 60014+00.00



STA 60014+50.00



STA 60013+82.19



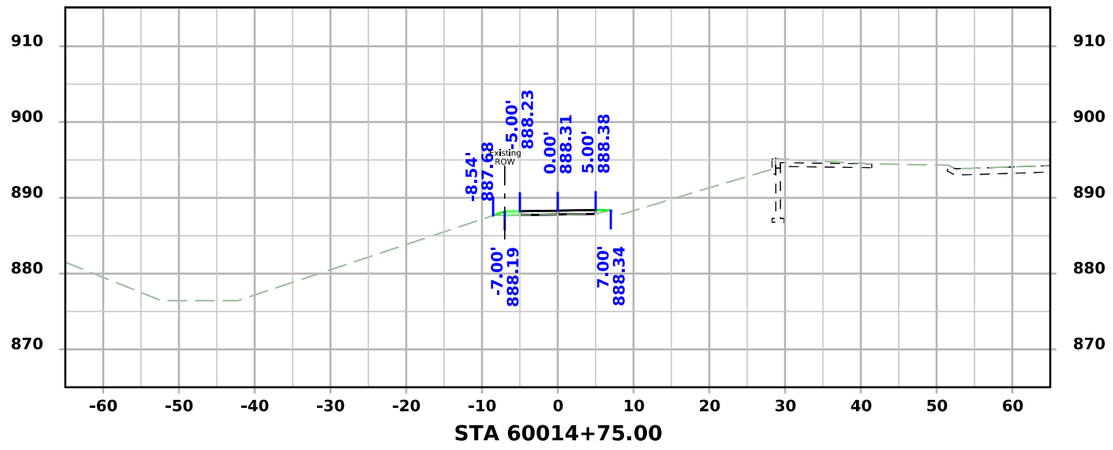
STA 60014+25.00

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER X.300

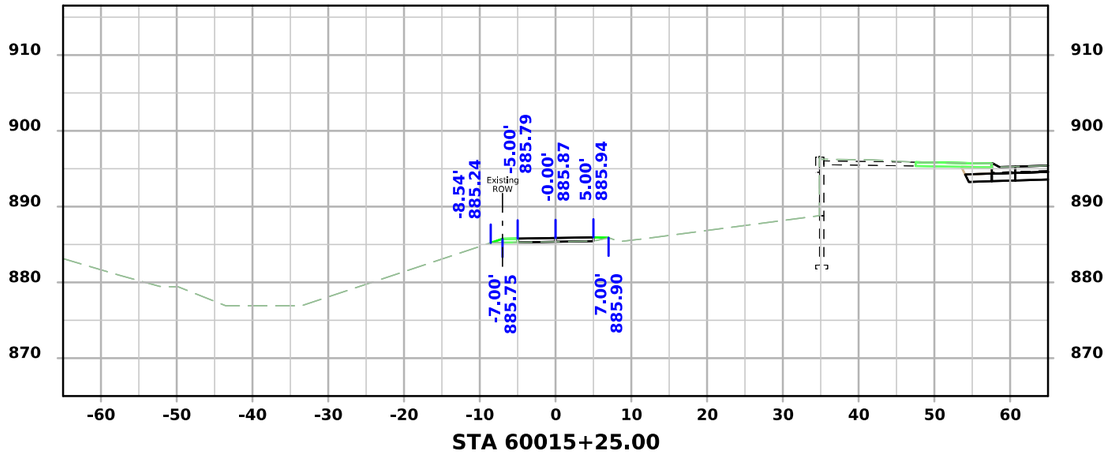
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V2

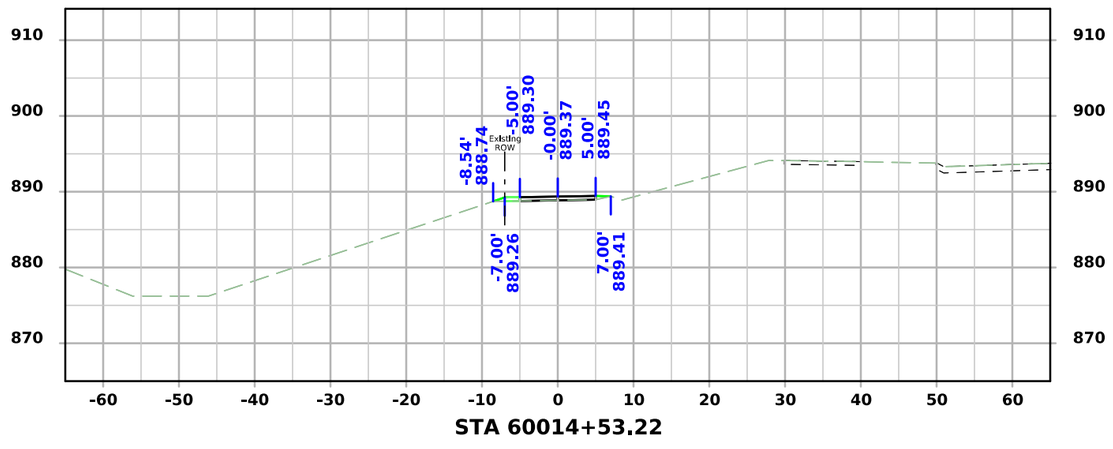
I-80/35 Trail - Final Condition



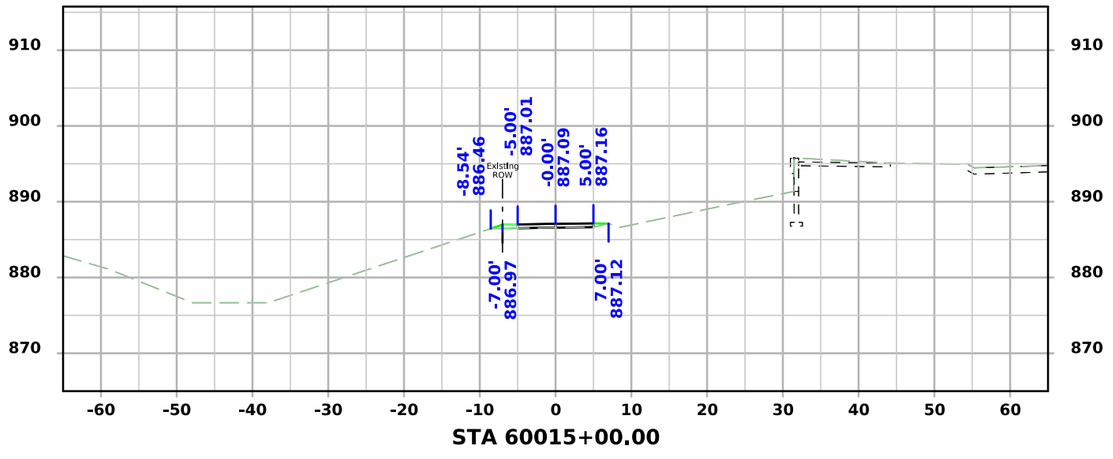
STA 60014+75.00



STA 60015+25.00



STA 60014+53.22



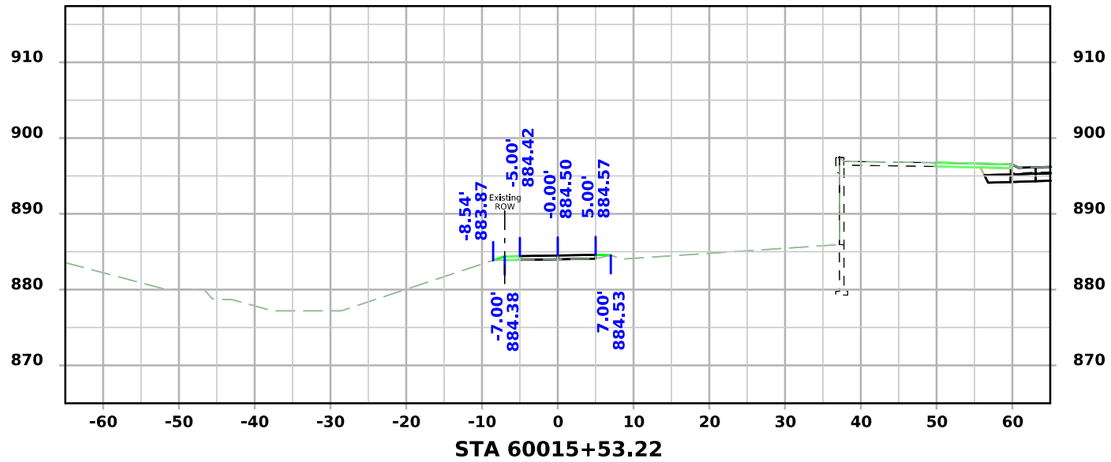
STA 60015+00.00

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER X.301	

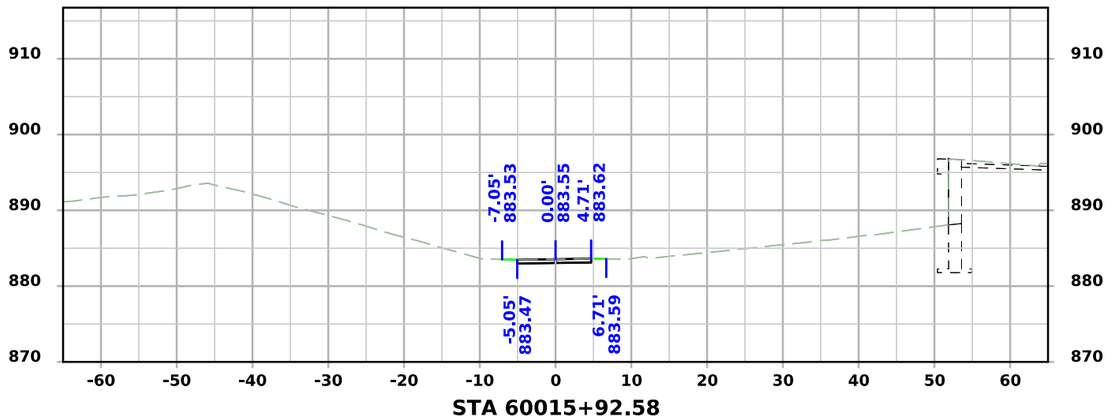
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V2

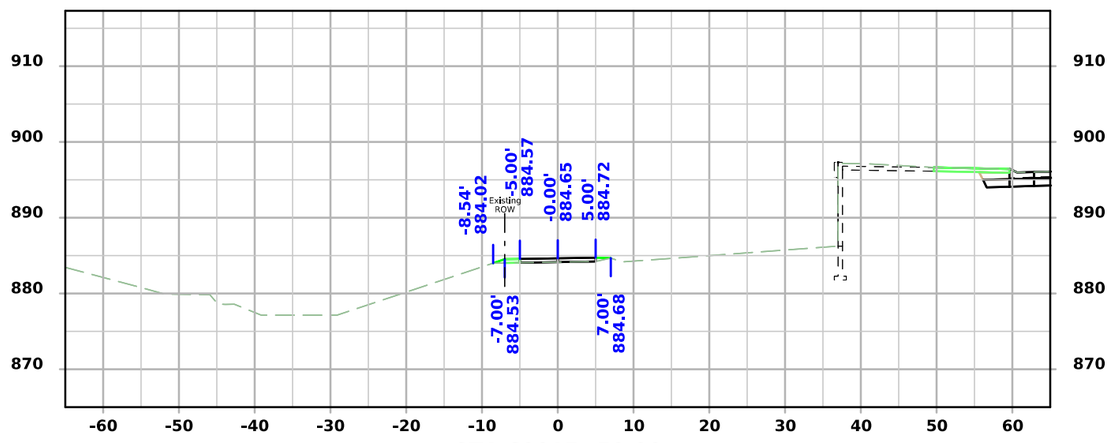
I-80/35 Trail - Final Condition



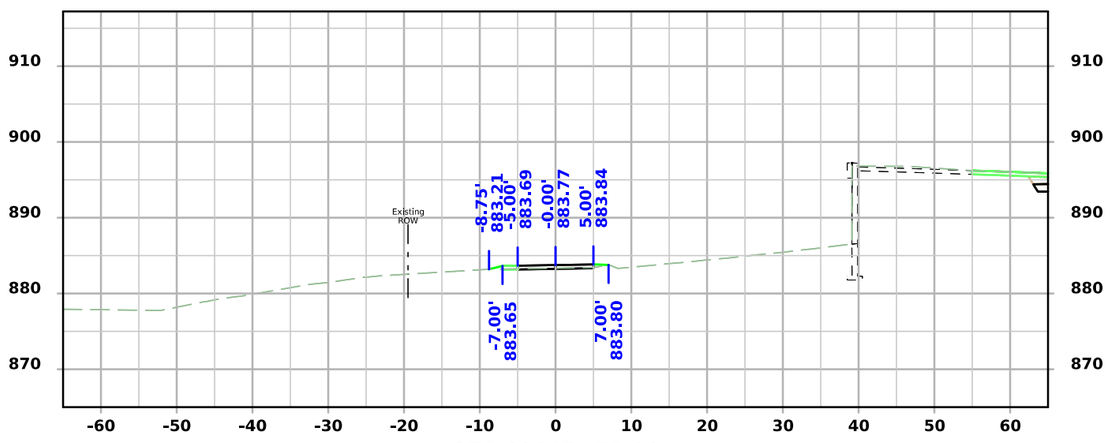
STA 60015+53.22



STA 60015+92.58



STA 60015+50.00



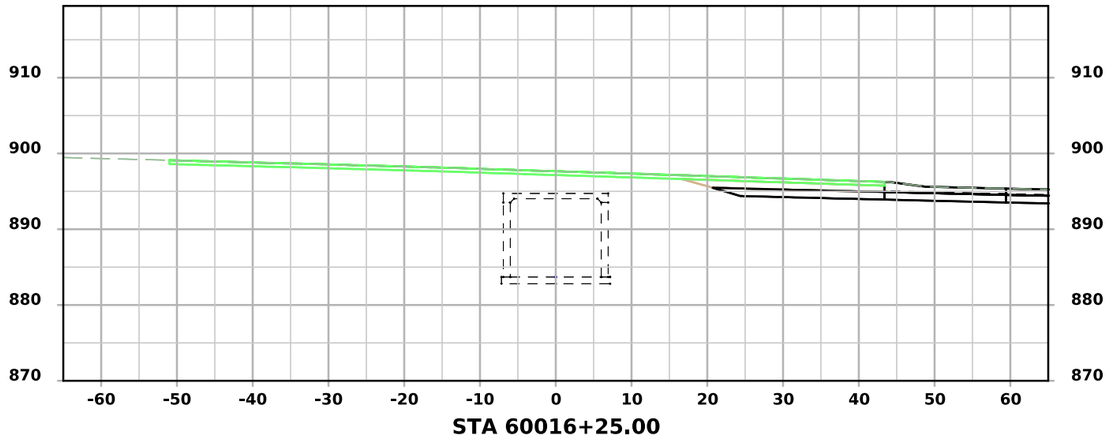
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FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER X.302

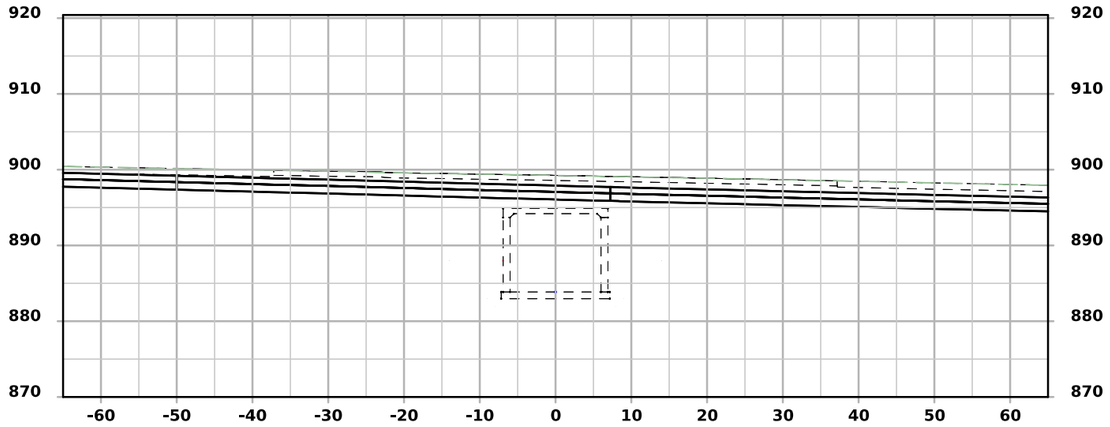
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V2

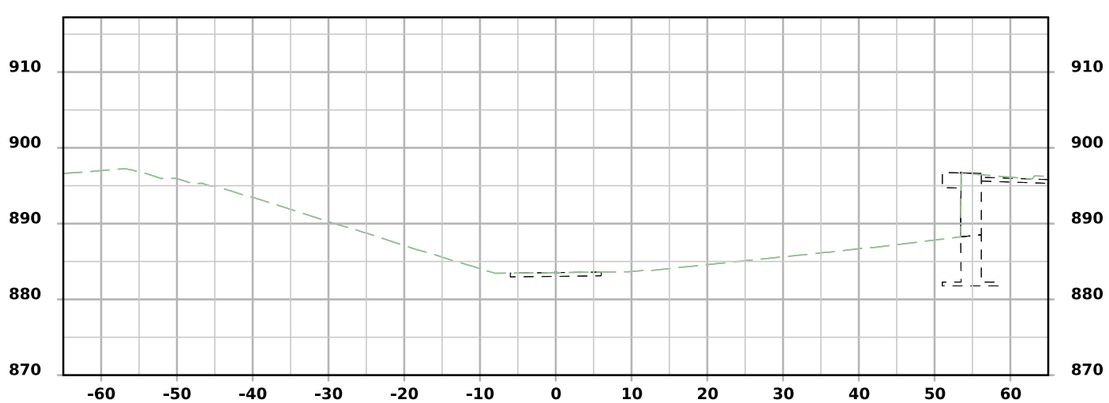
I-80/35 Trail - Final Condition



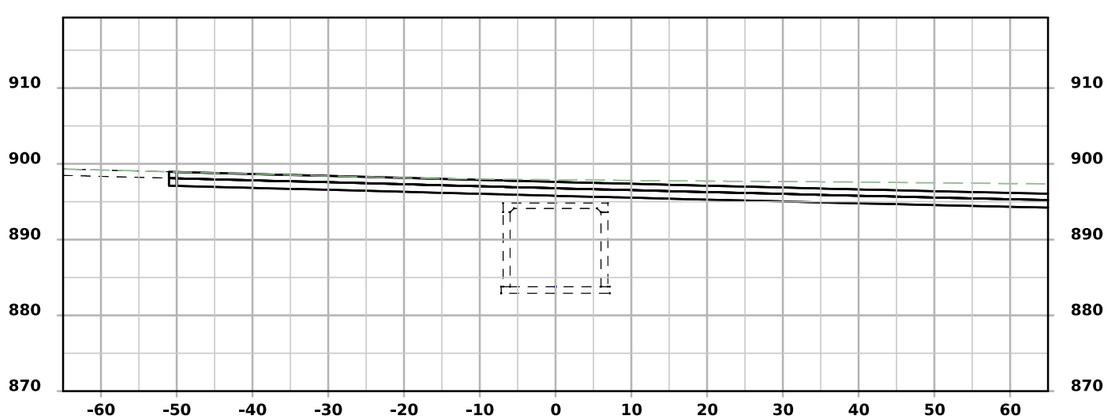
STA 60016+25.00



STA 60016+58.47



STA 60016+00.00



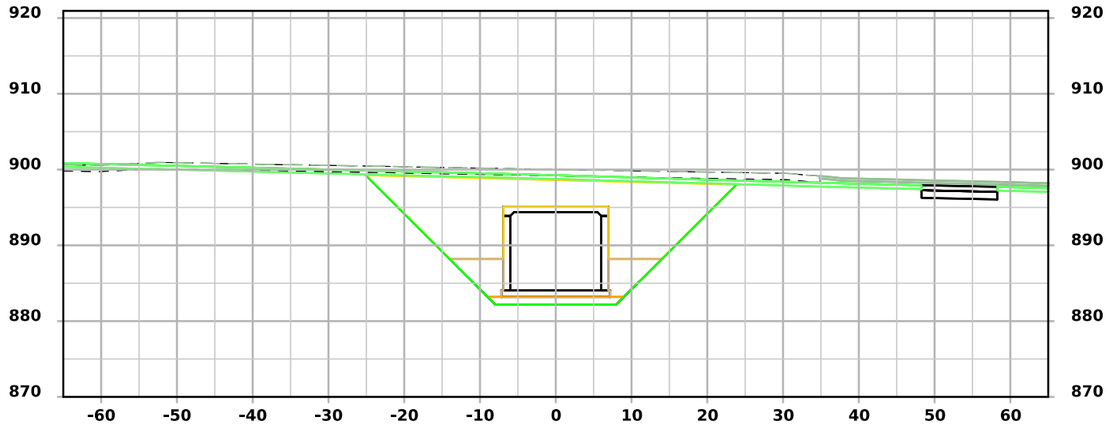
STA 60016+50.00

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER X.303	

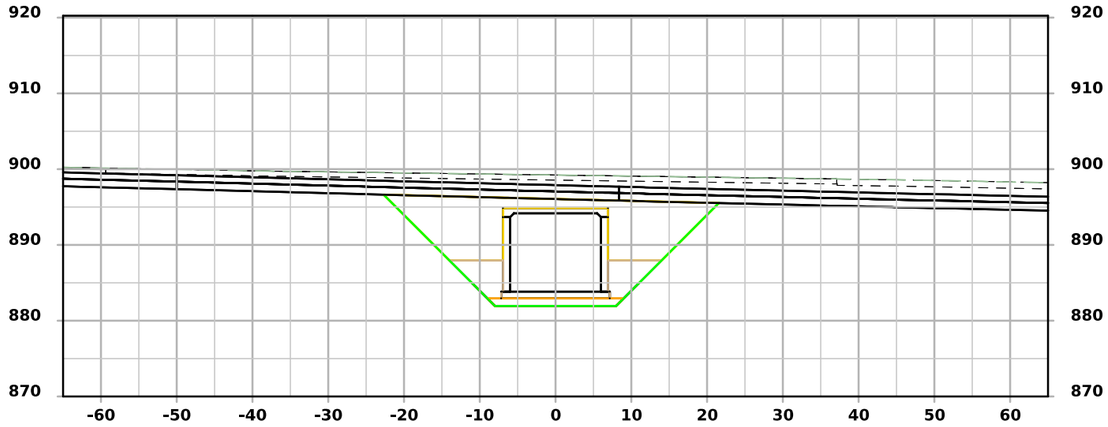
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V2

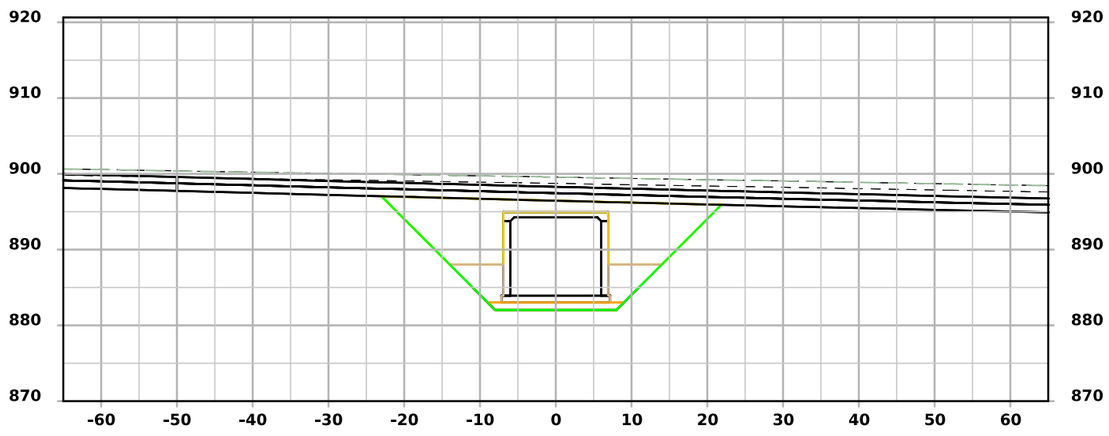
I-80/35 Trail - Final Condition



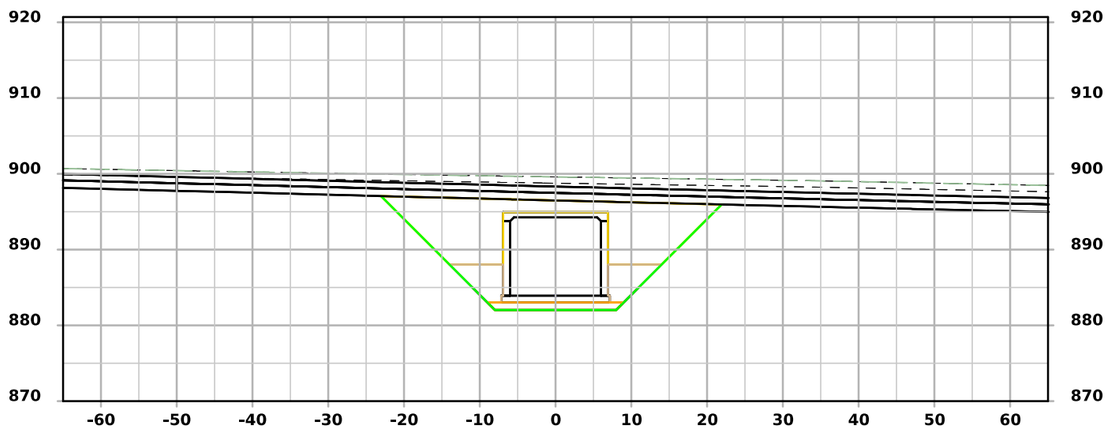
STA 60017+00.00



STA 60017+42.47



STA 60016+75.00



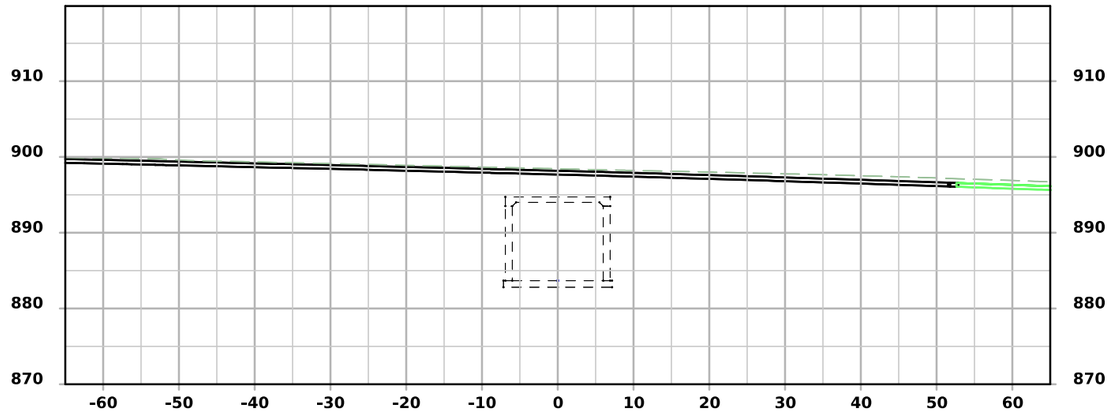
STA 60017+25.00

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER X.304

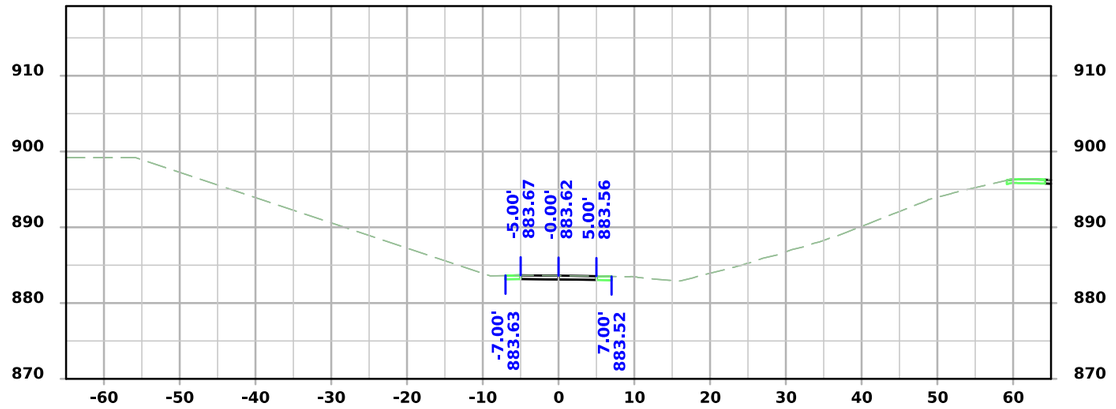
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V2

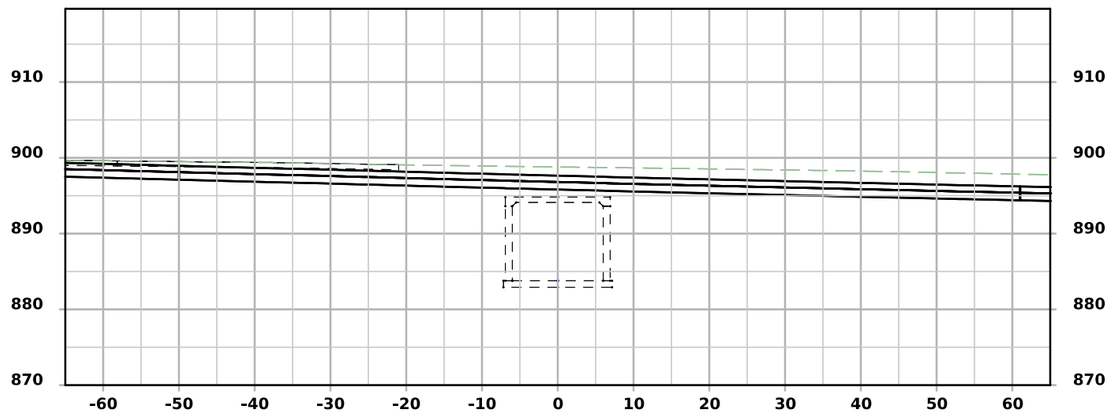
I-80/35 Trail - Final Condition



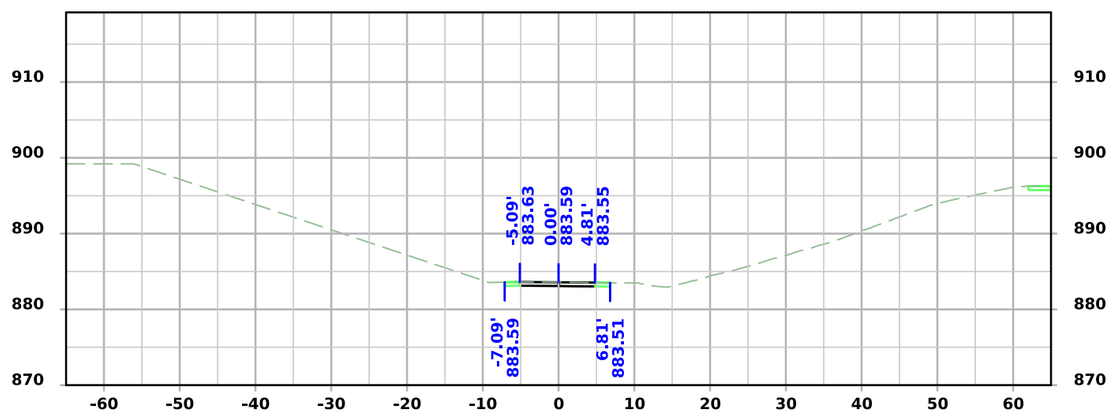
STA 60017+75.00



STA 60018+00.00



STA 60017+50.00



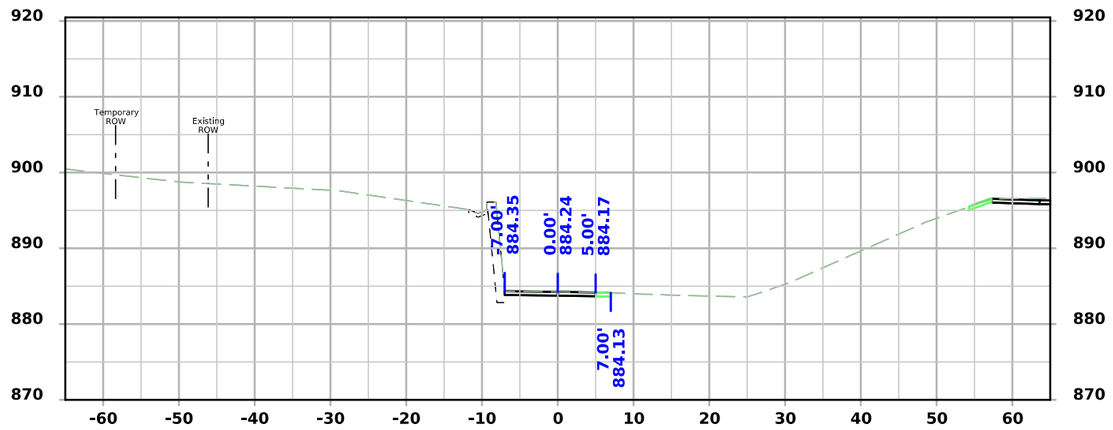
STA 60017+95.09

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER X.305	

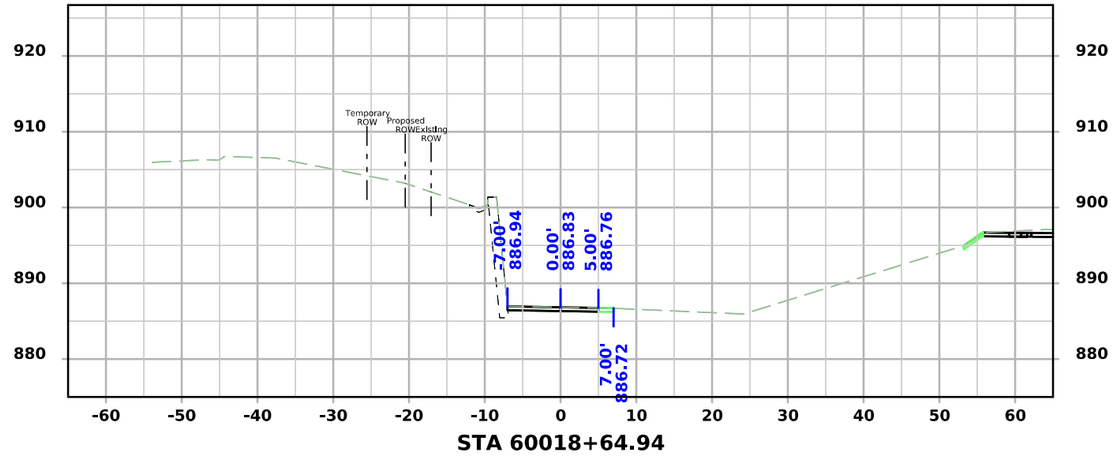
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V2

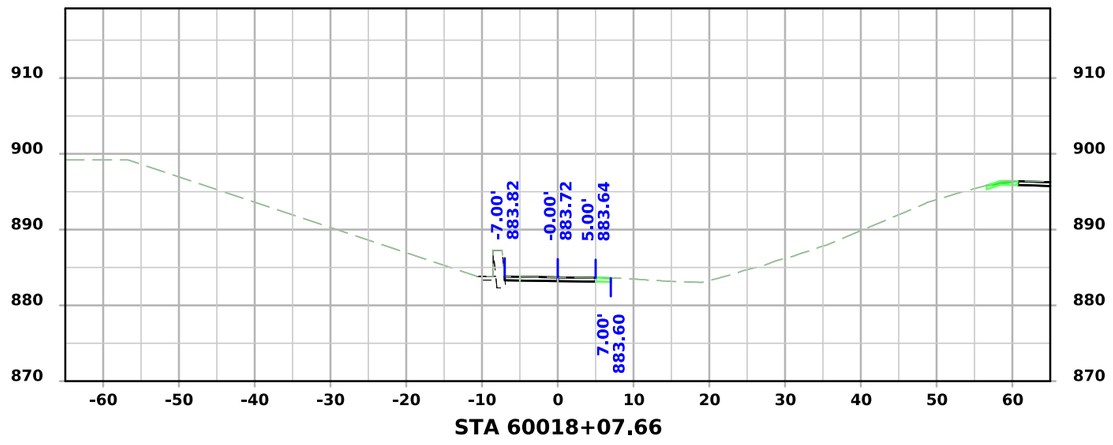
I-80/35 Trail - Final Condition



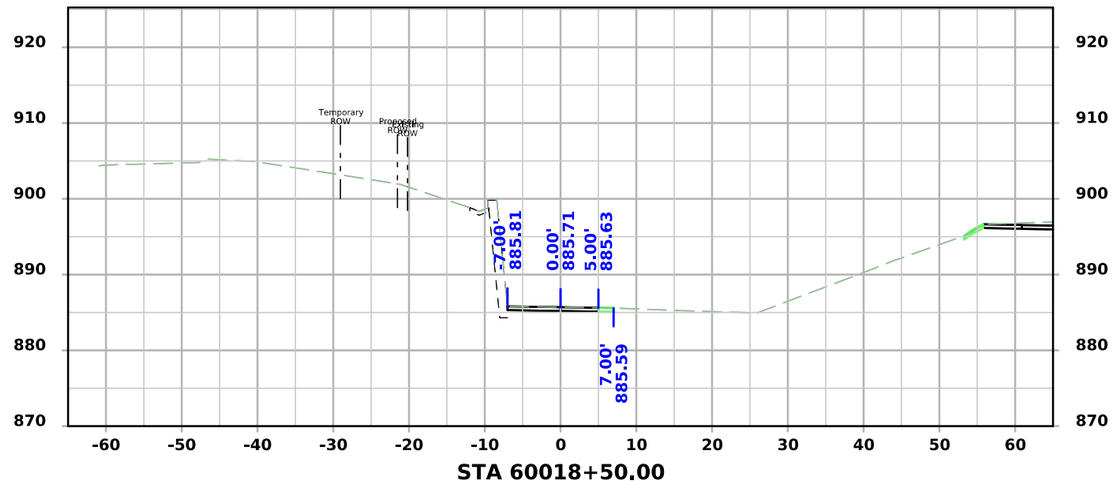
STA 60018+25.00



STA 60018+64.94



STA 60018+07.66



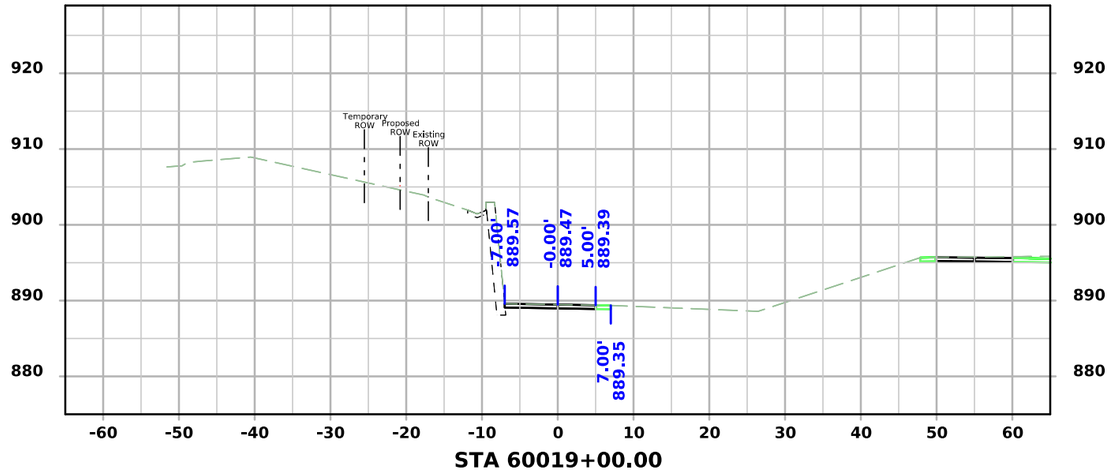
STA 60018+50.00

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER X.306

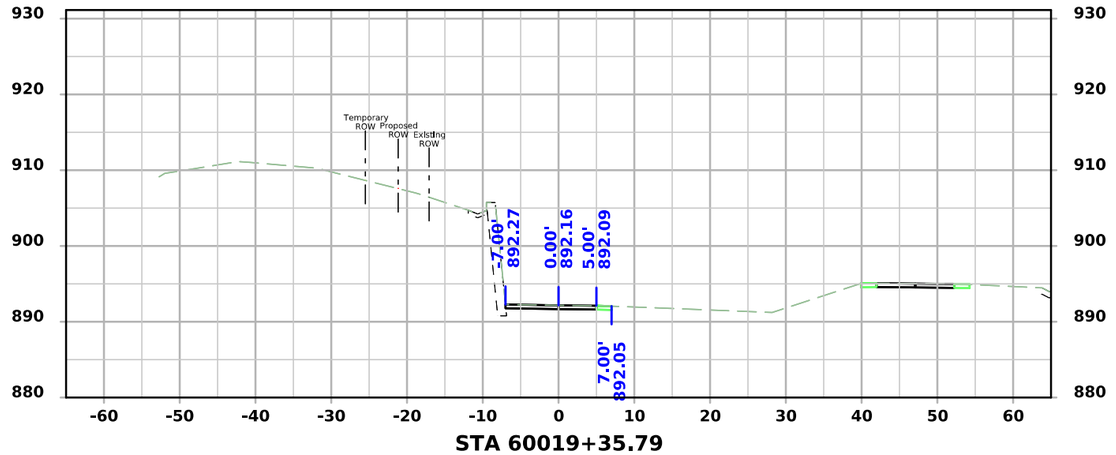
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V2

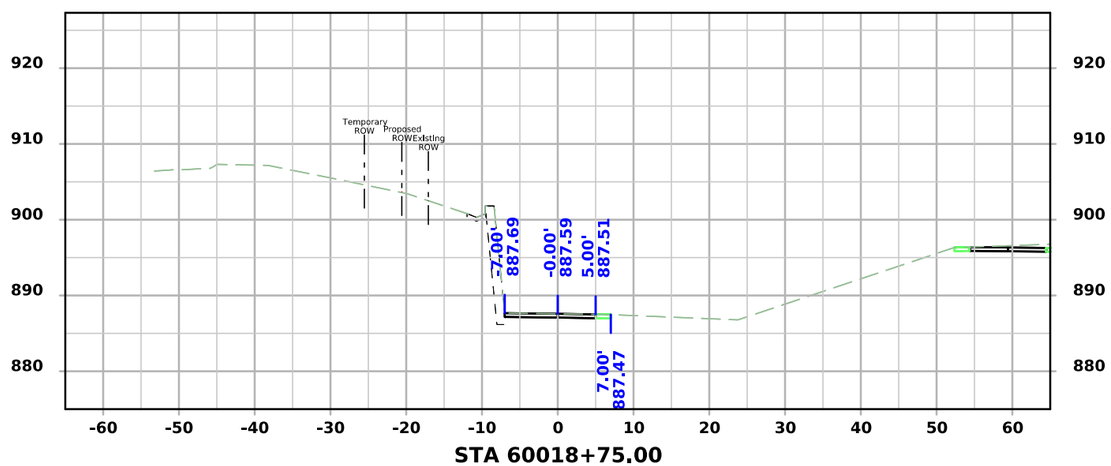
I-80/35 Trail - Final Condition



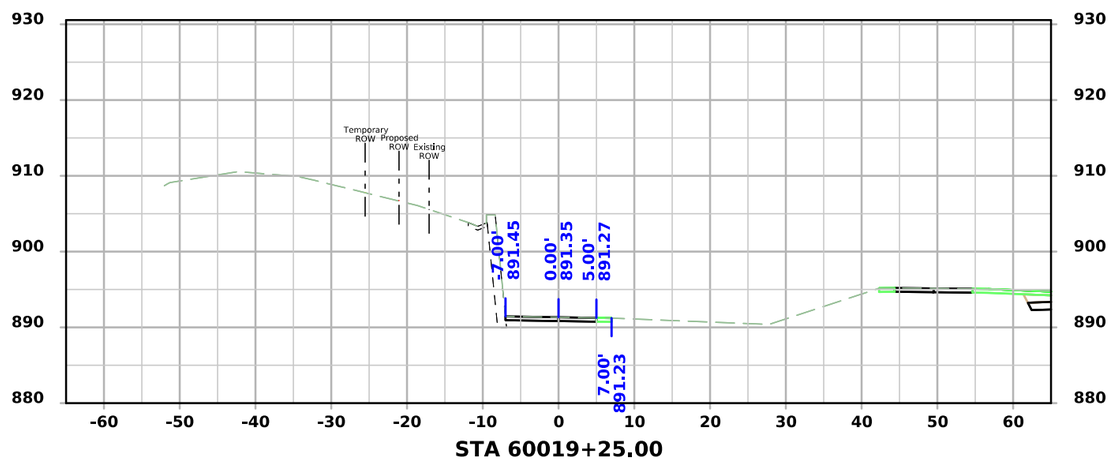
STA 60019+00.00



STA 60019+35.79



STA 60018+75.00



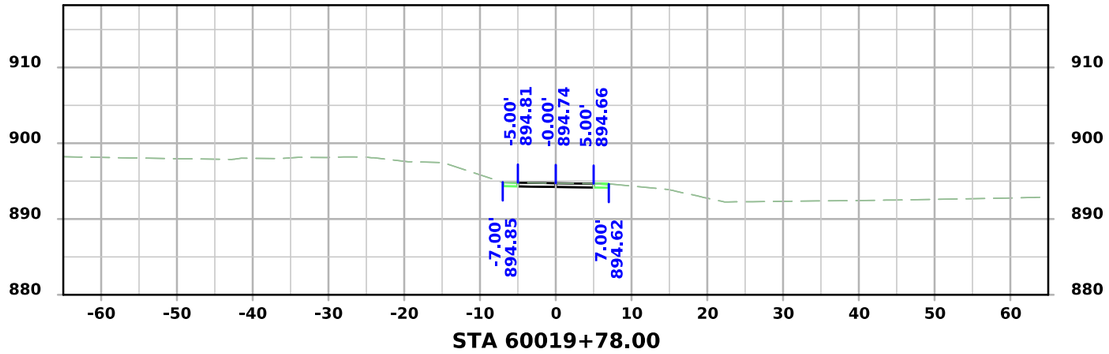
STA 60019+25.00

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER X.307

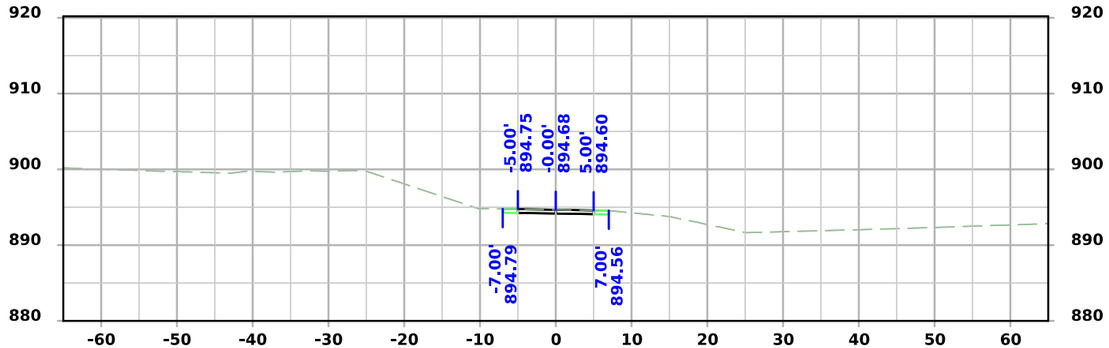
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V2

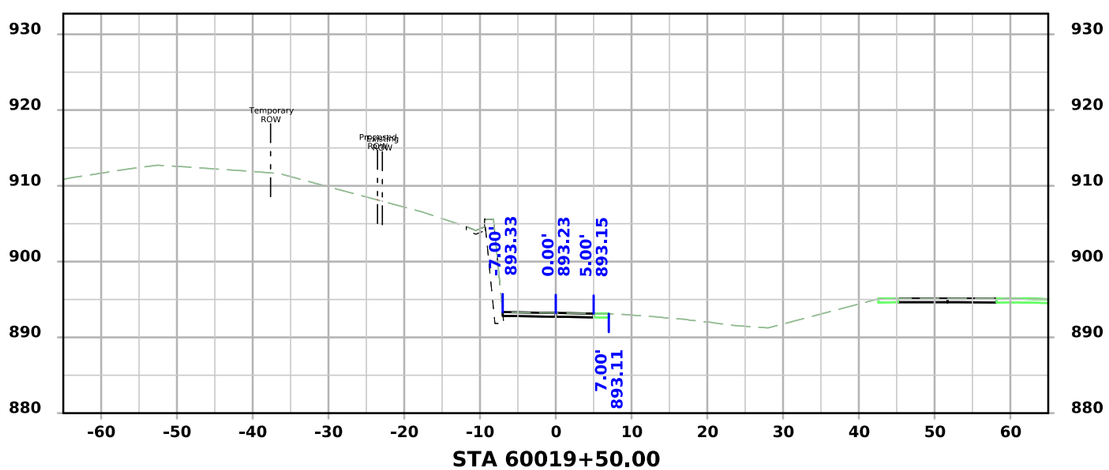
I-80/35 Trail - Final Condition



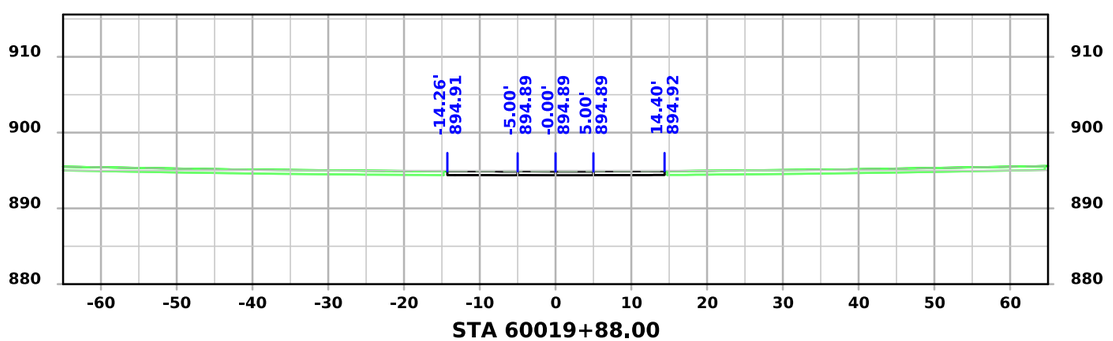
STA 60019+78.00



STA 60019+75.00



STA 60019+50.00



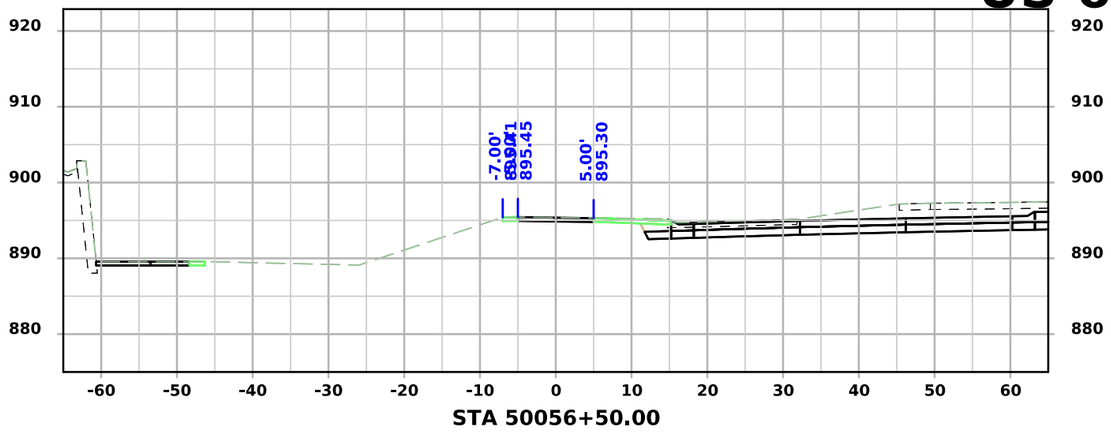
STA 60019+88.00

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER X.308

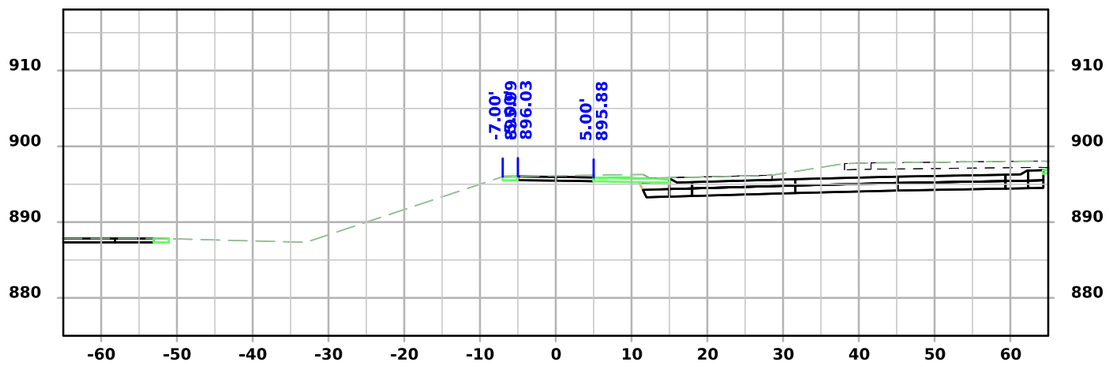
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V2

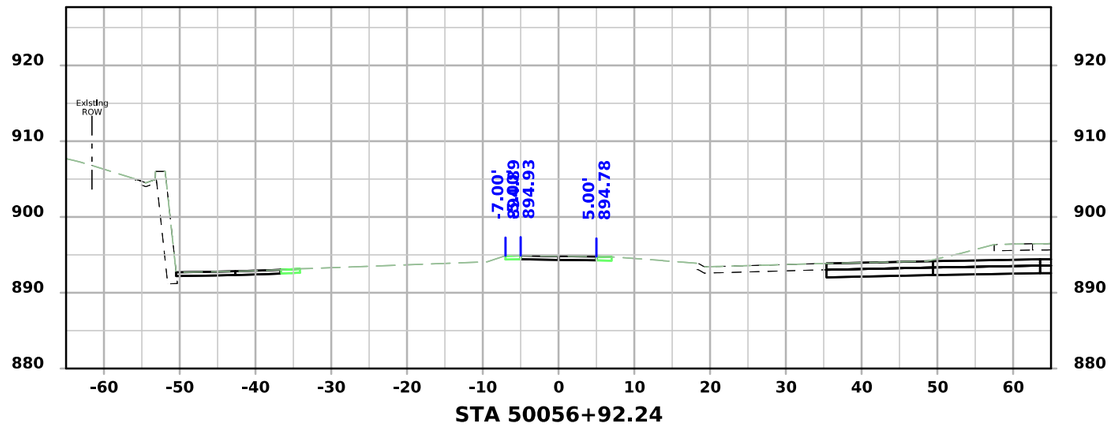
US 6 / Hickman Road Trail - Final Condition



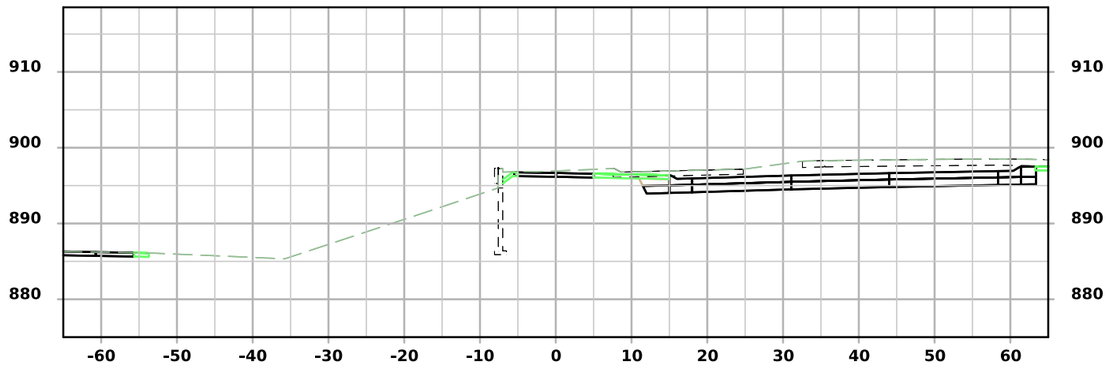
STA 50056+50.00



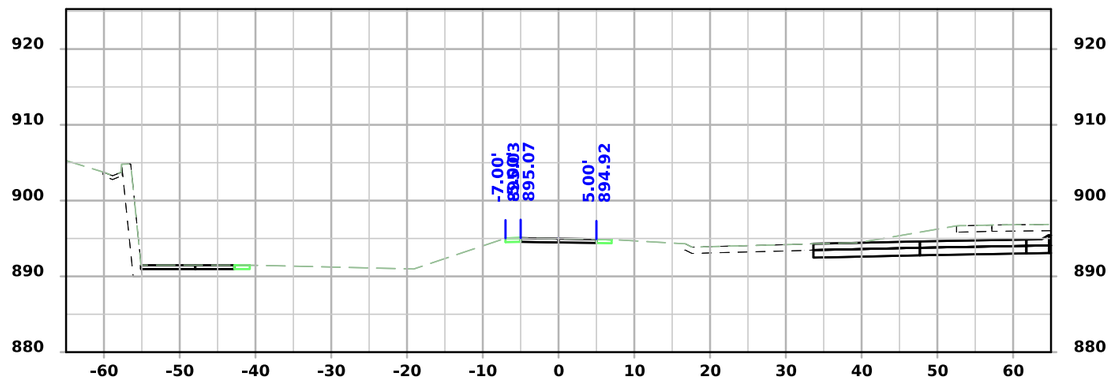
STA 50056+25.00



STA 50056+92.24



STA 50056+01.22



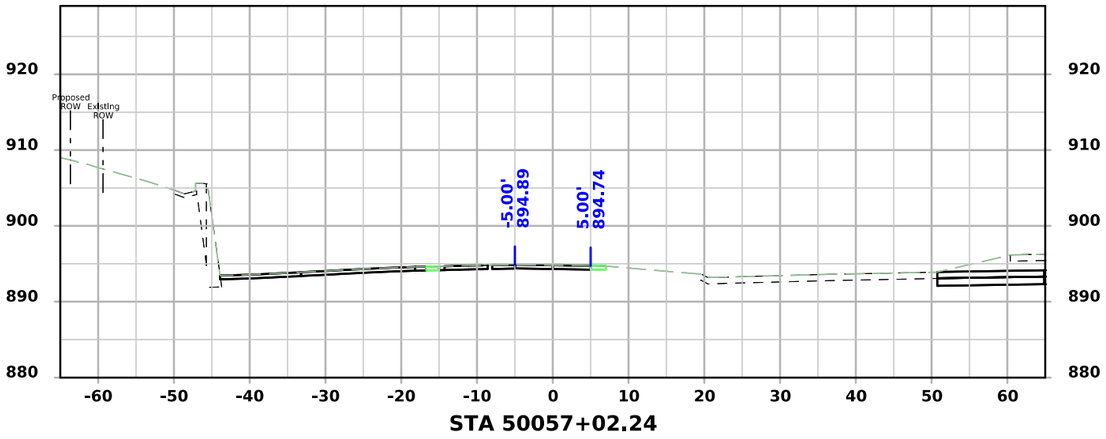
STA 50056+75.00

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER X.400	

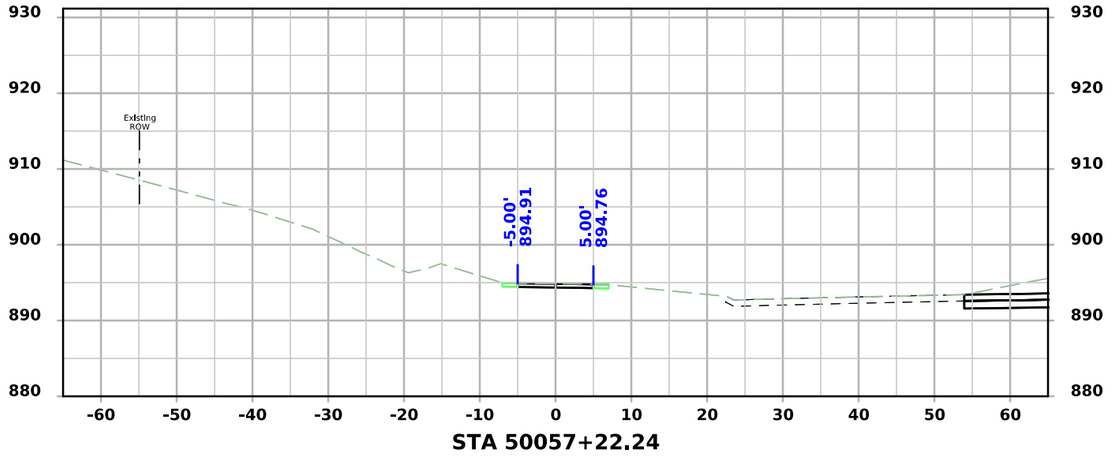
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V2

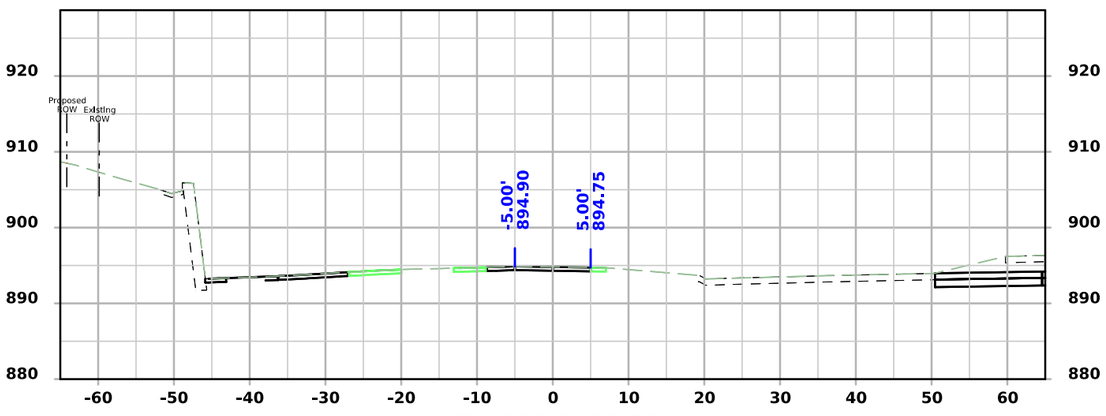
US 6 / Hickman Road Trail - Final Condition



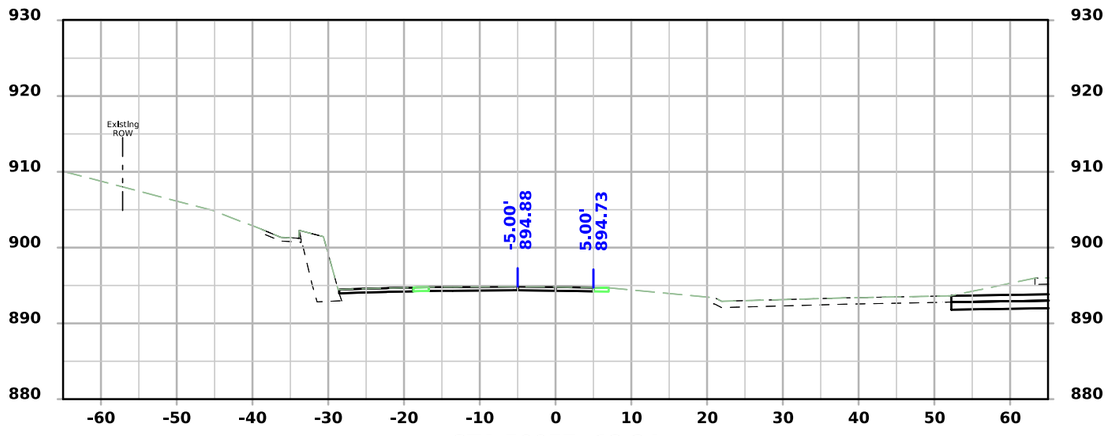
STA 50057+02.24



STA 50057+22.24



STA 50057+00.00



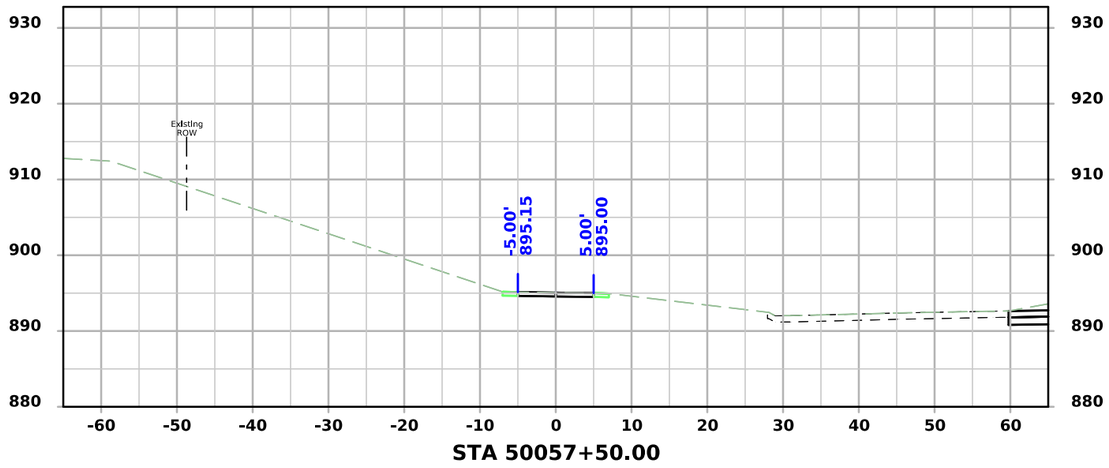
STA 50057+12.24

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER X.401	

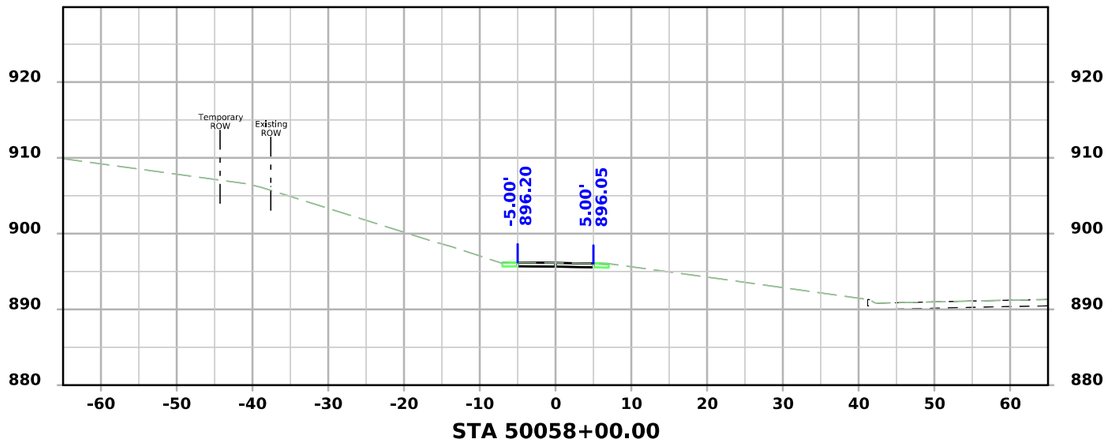
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V2

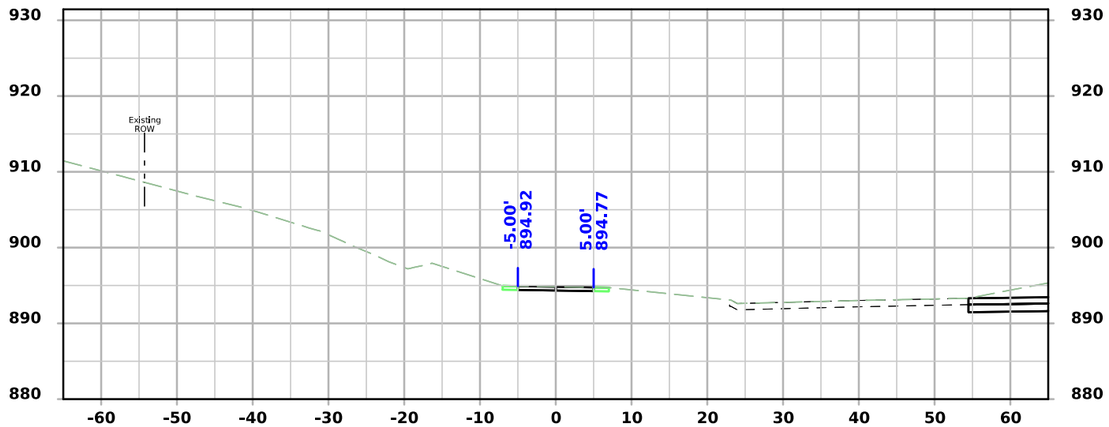
US 6 / Hickman Road Trail - Final Condition



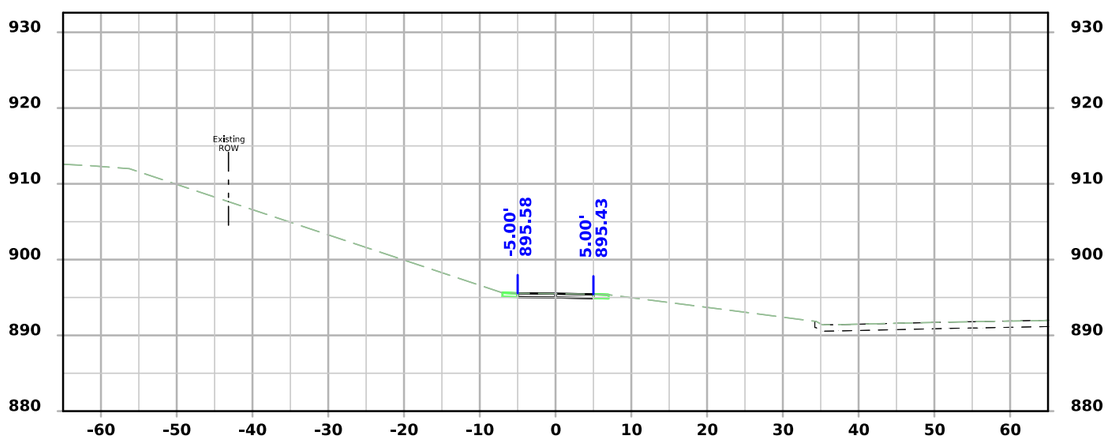
STA 50057+50.00



STA 50058+00.00



STA 50057+25.00



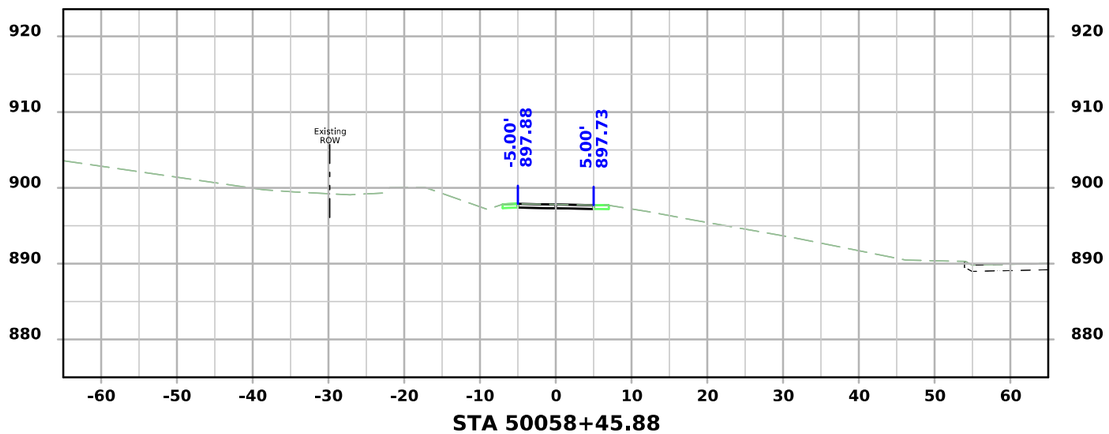
STA 50057+75.00

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER X.402

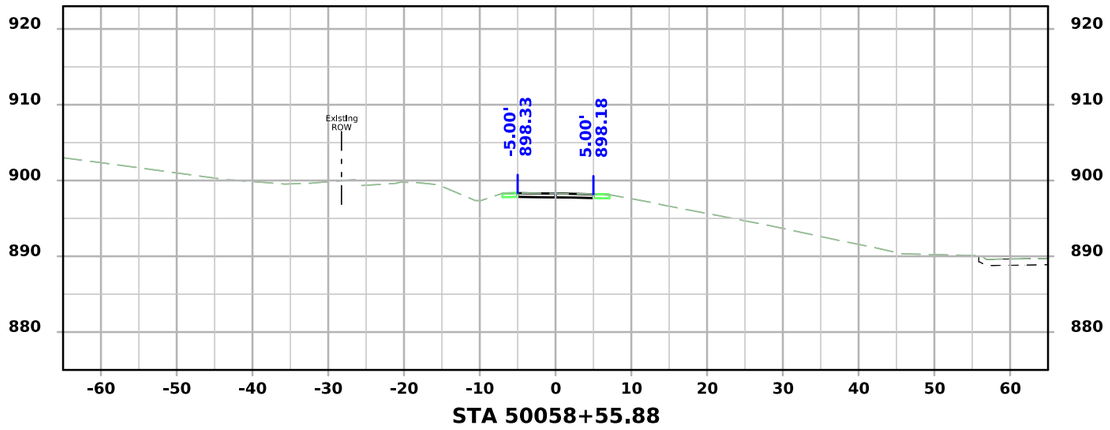
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V2

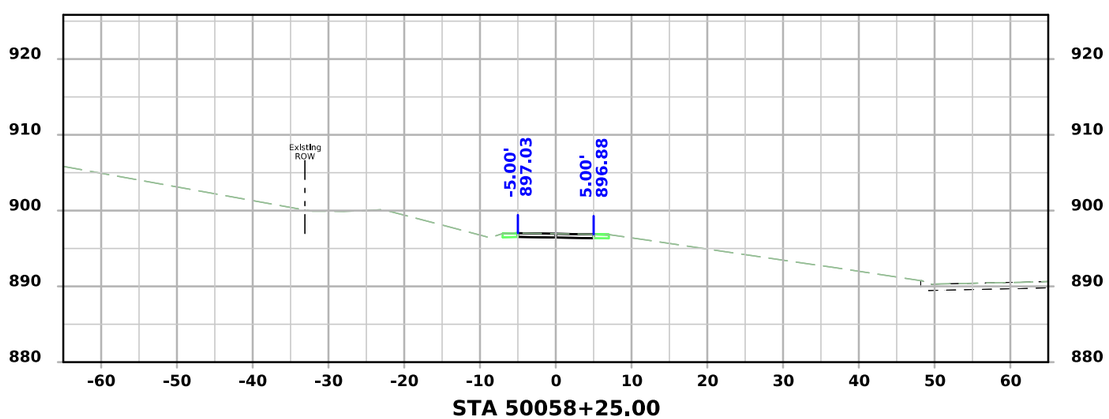
US 6 / Hickman Road Trail - Final Condition



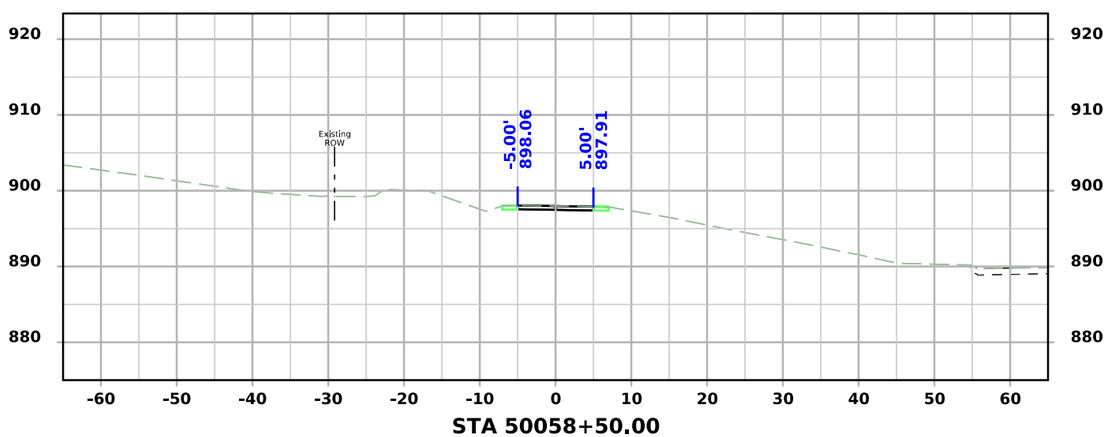
STA 50058+45.88



STA 50058+55.88



STA 50058+25.00



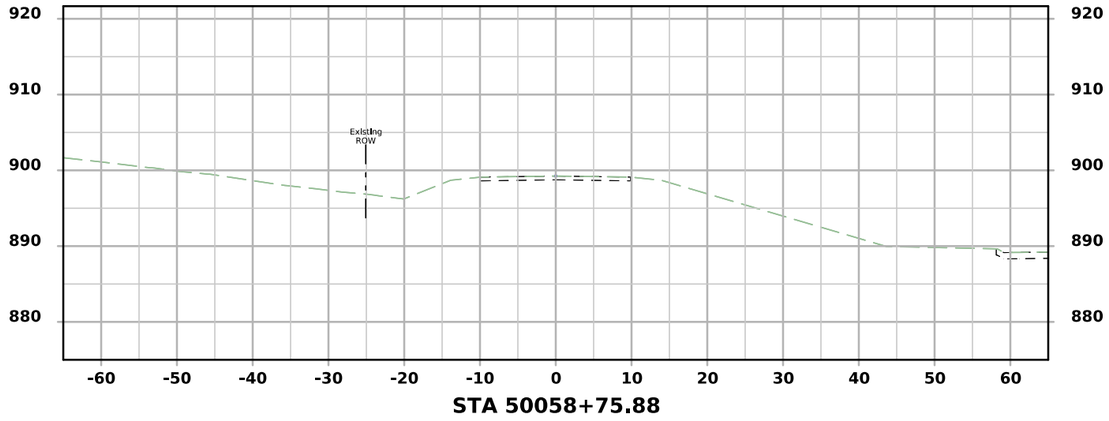
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FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER X.403

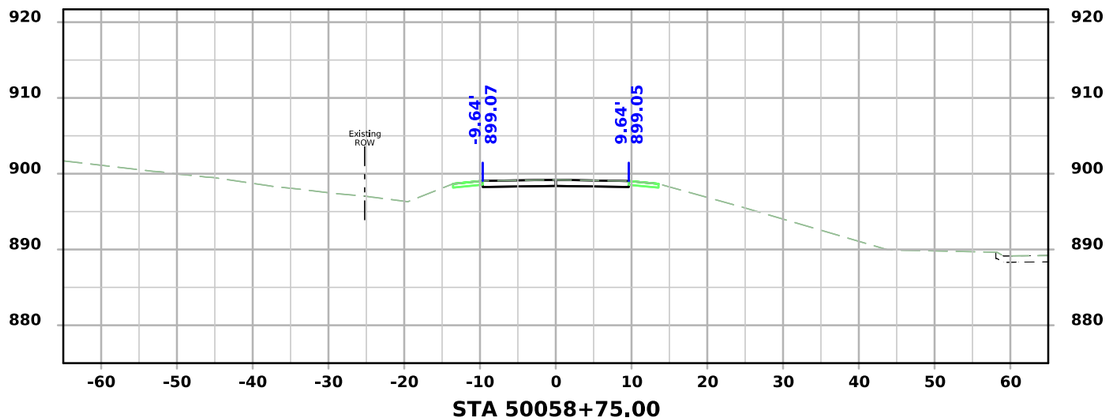
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V2

US 6 / Hickman Road Trail - Final Condition



STA 50058+75.88



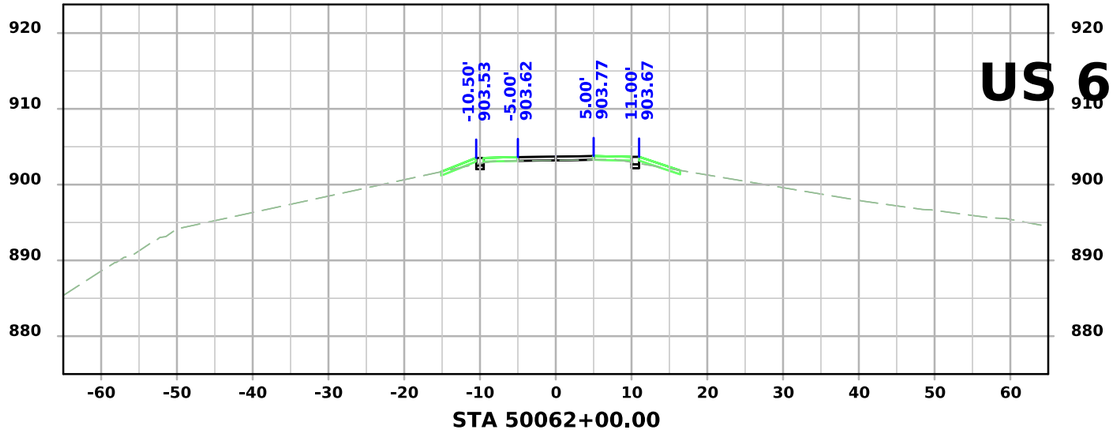
STA 50058+75.00

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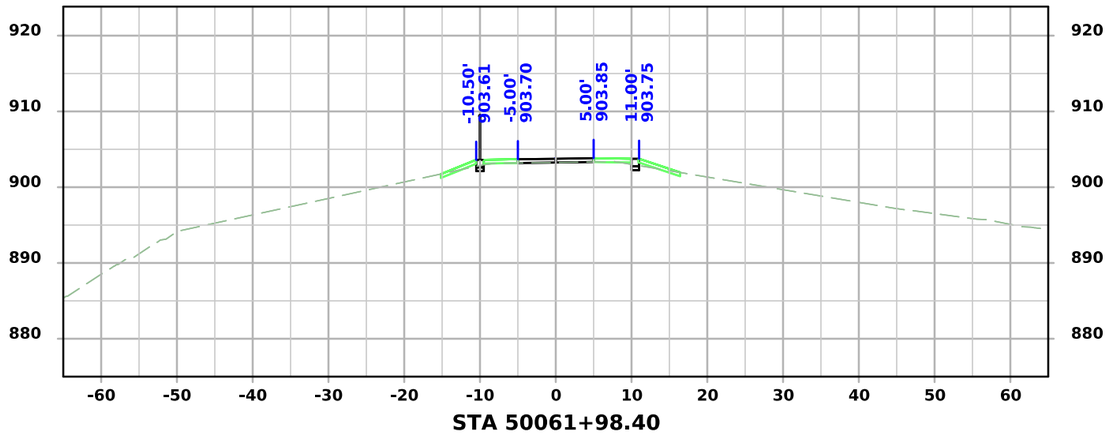
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V2

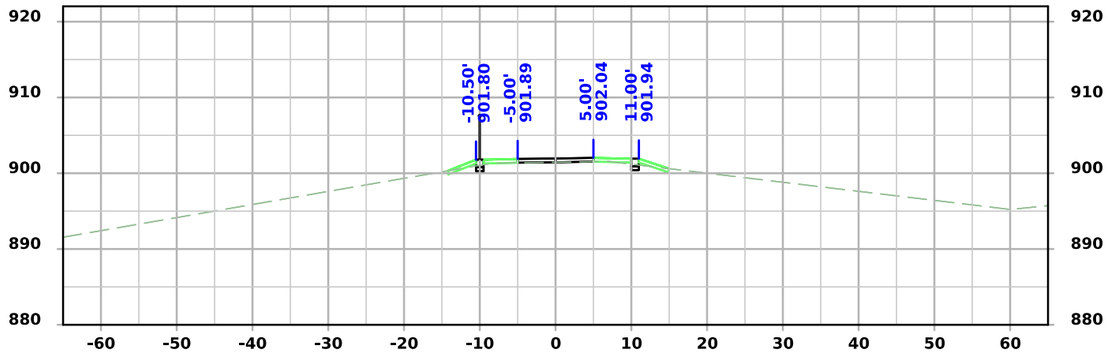
US 6 / Hickman Road Trail - Final Condition



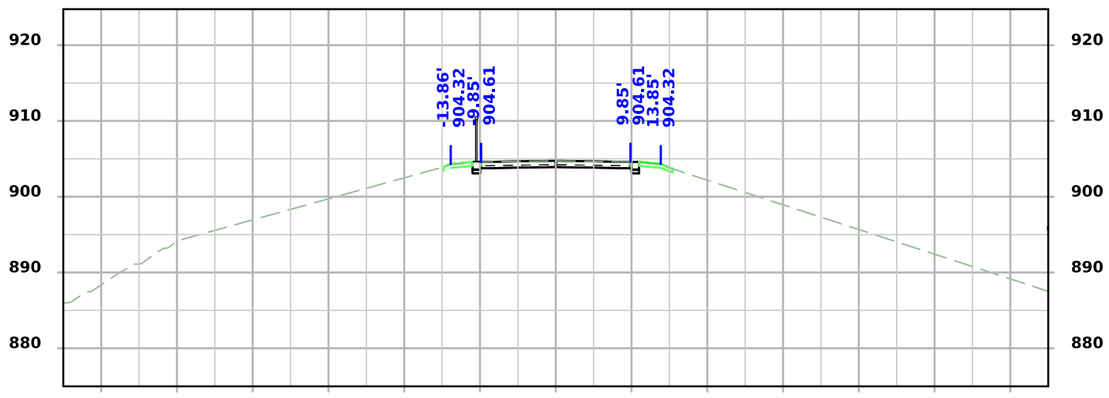
STA 50062+00.00



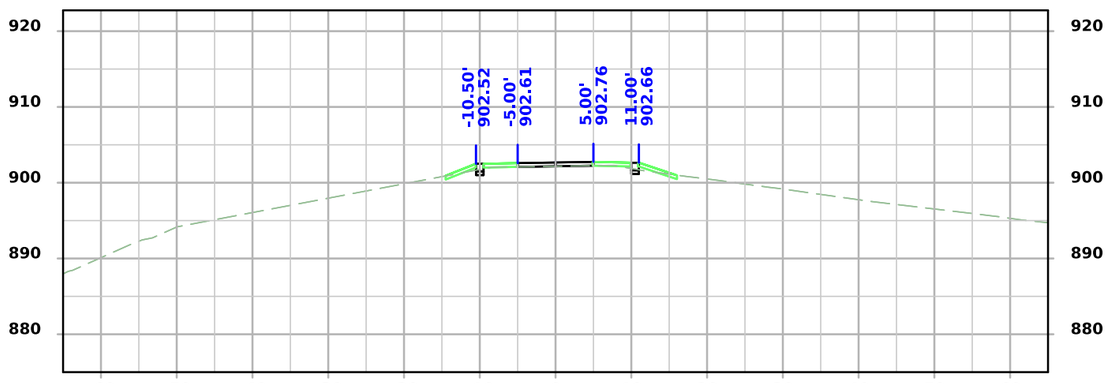
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STA 50061+78.32



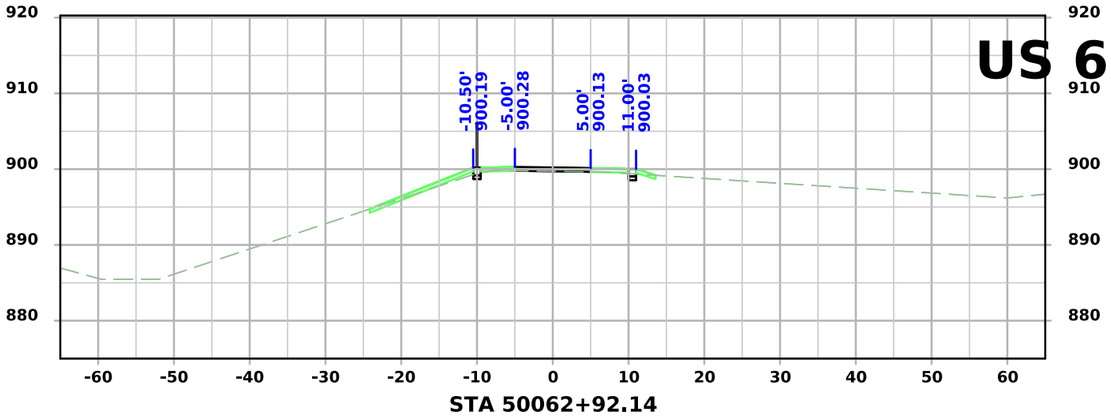
STA 50062+25.00

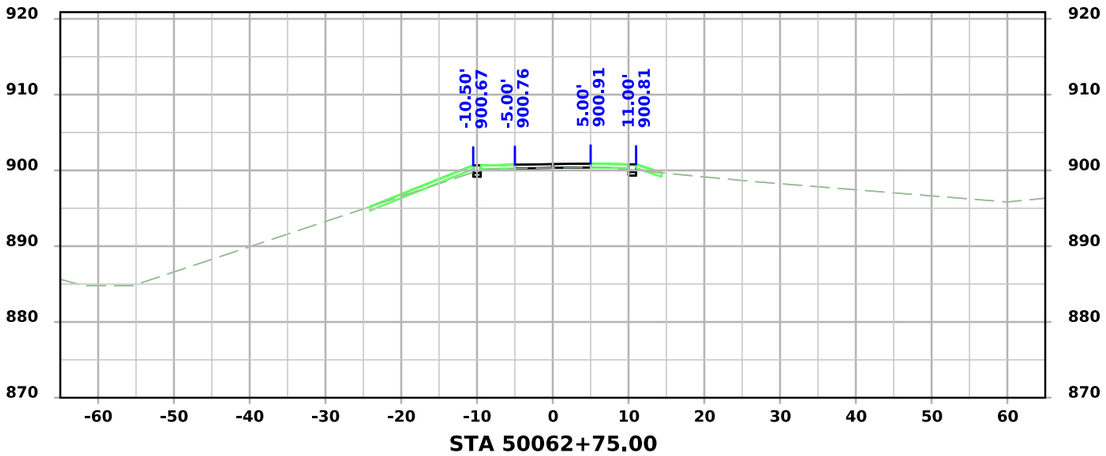
FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER X.405

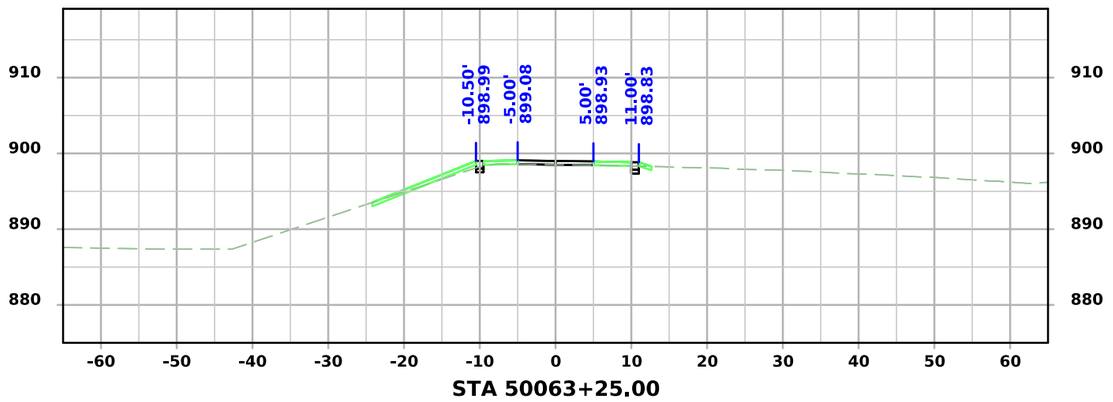
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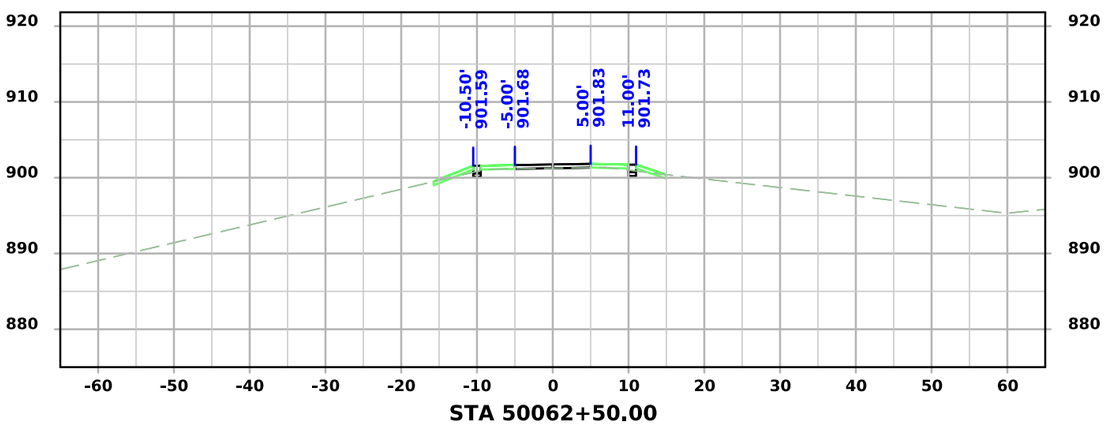
V2

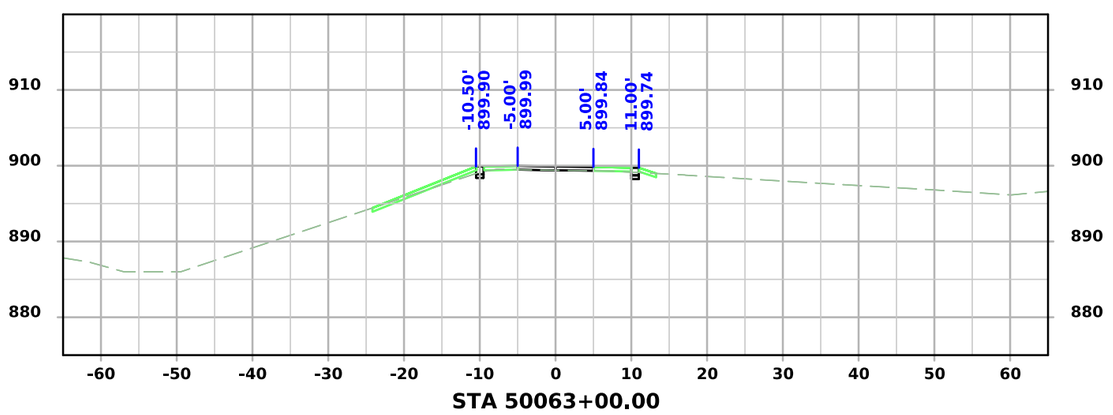
US 6 / Hickman Road Trail - Final Condition









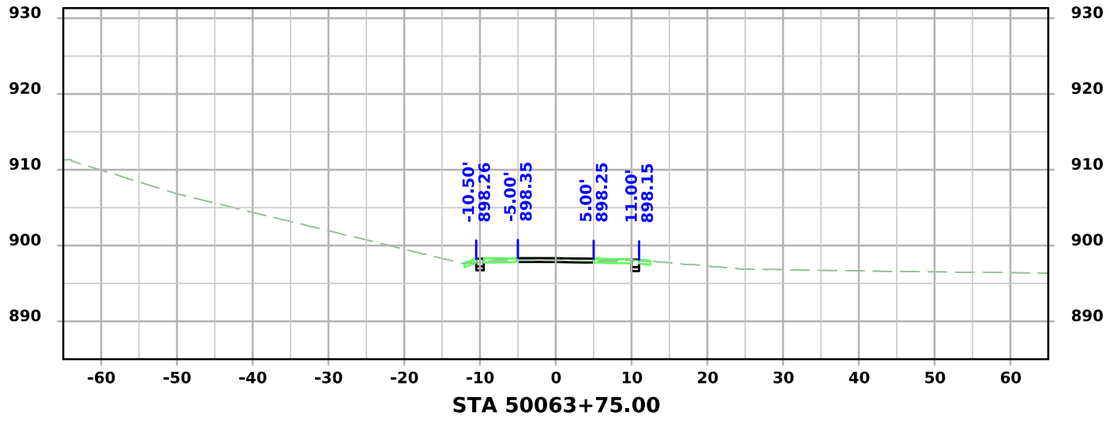


FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER X.406

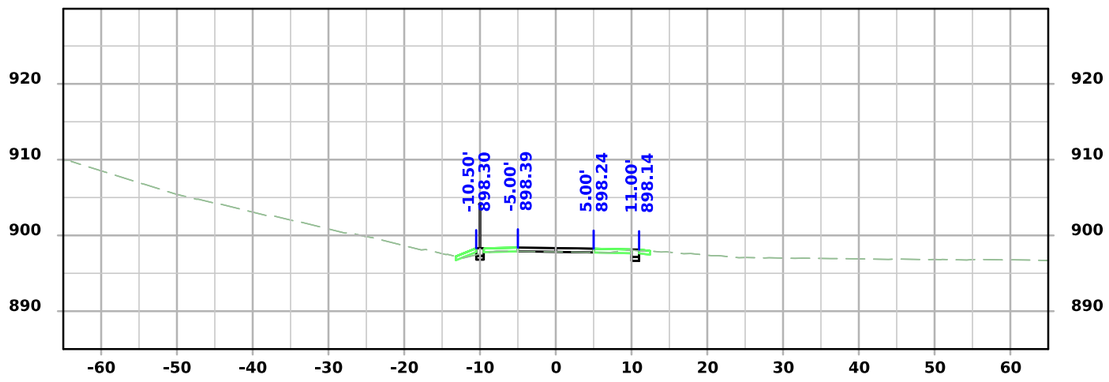
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V2

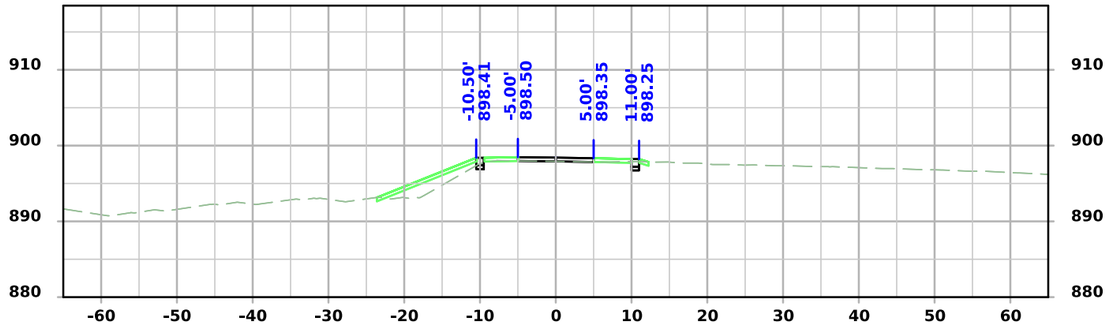
US 6 / Hickman Road Trail - Final Condition



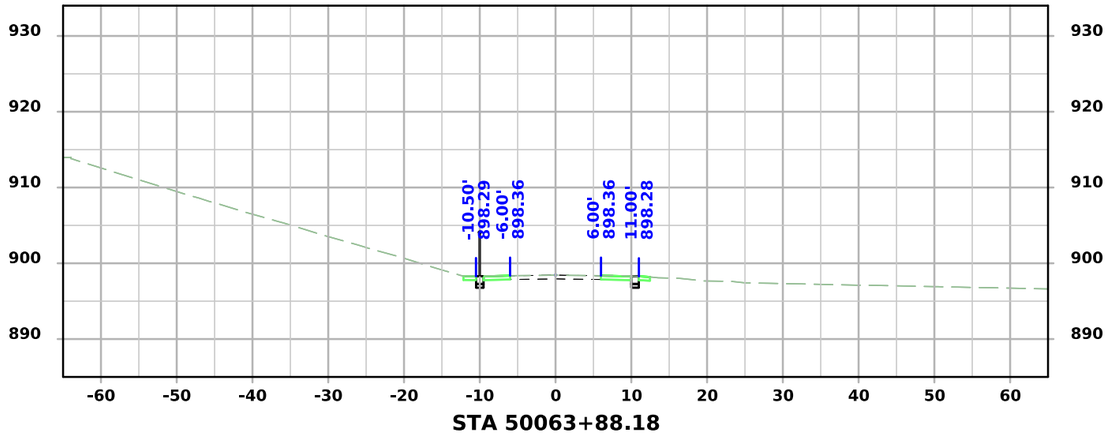
STA 50063+75.00



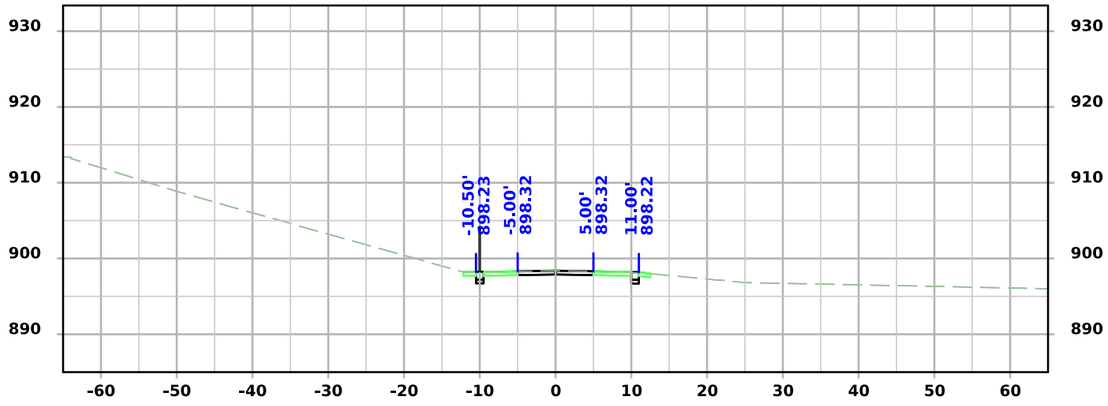
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STA 50063+50.00



STA 50063+88.18



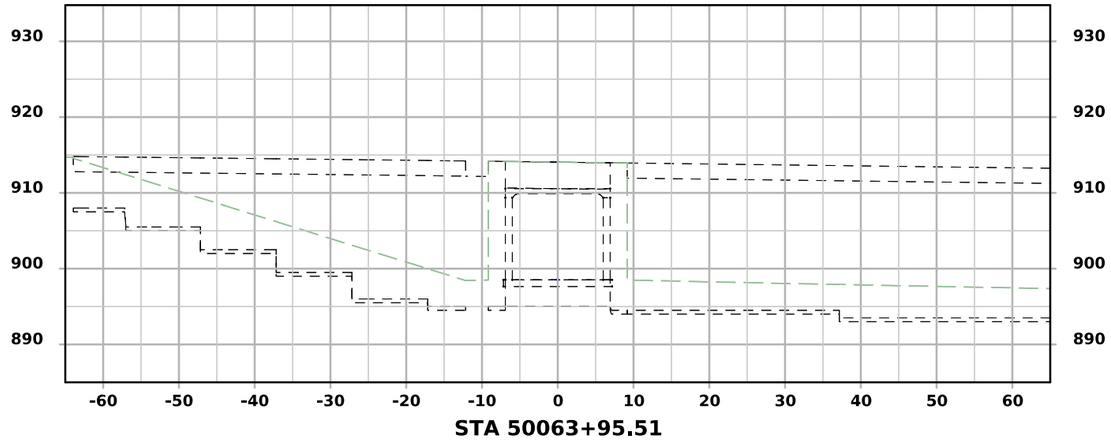
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FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER X.407

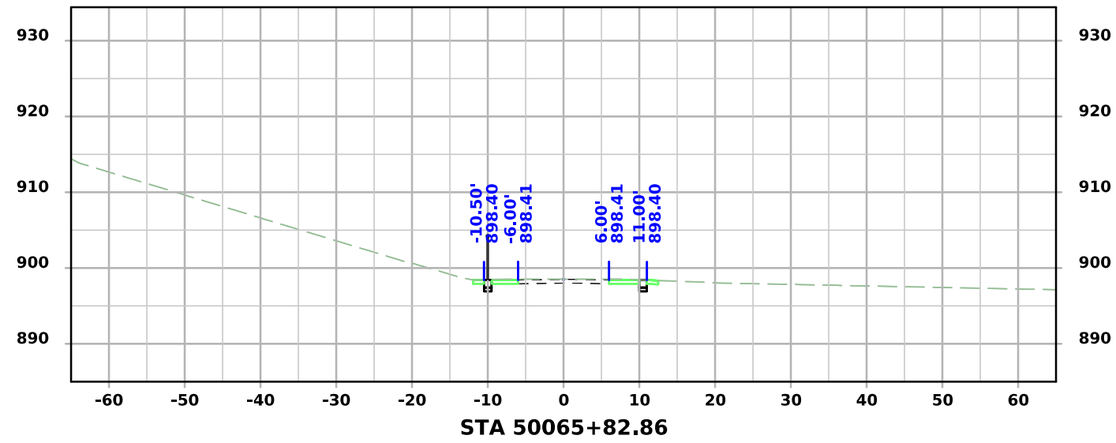
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V2

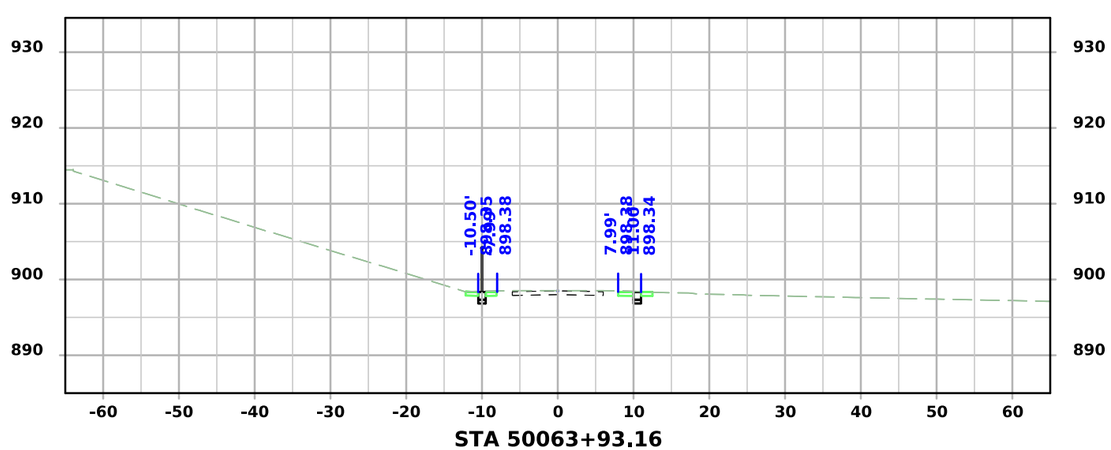
US 6 / Hickman Road Trail - Final Condition



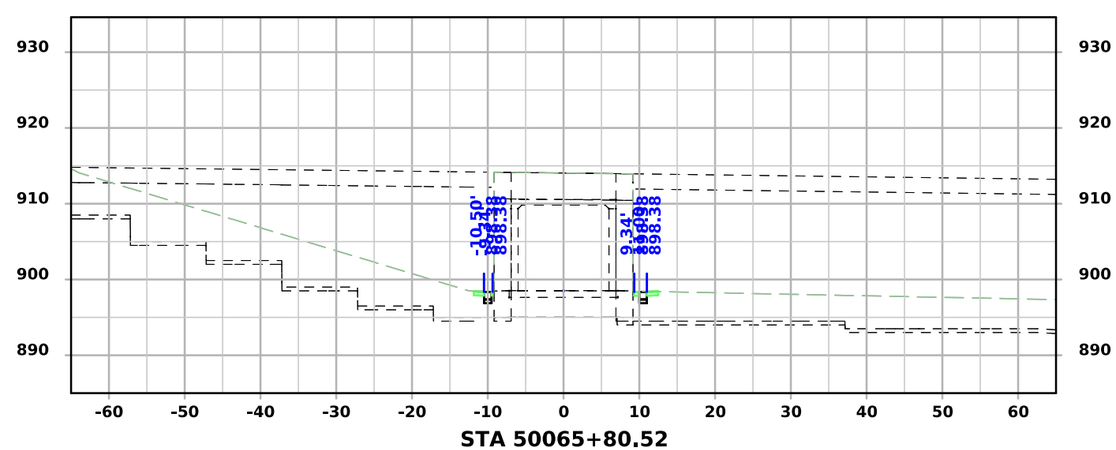
STA 50063+95.51



STA 50065+82.86



STA 50063+93.16



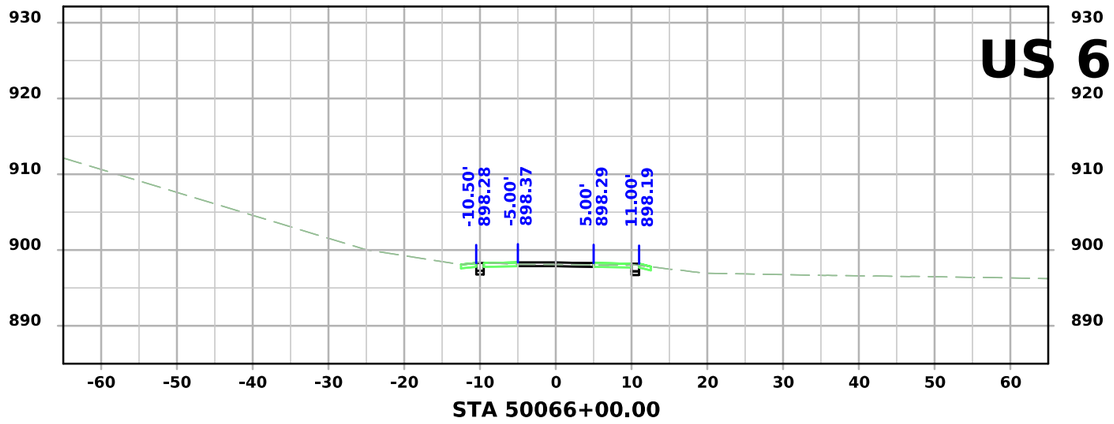
STA 50065+80.52

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER X.408

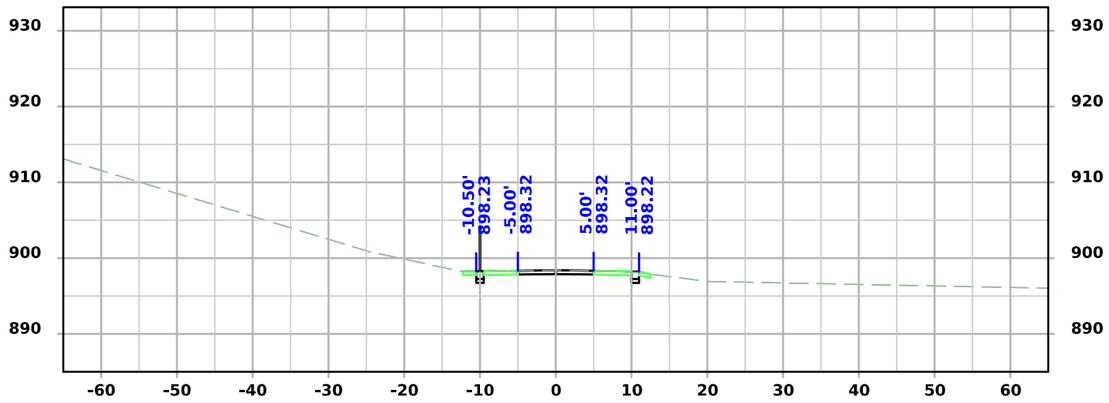
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V2

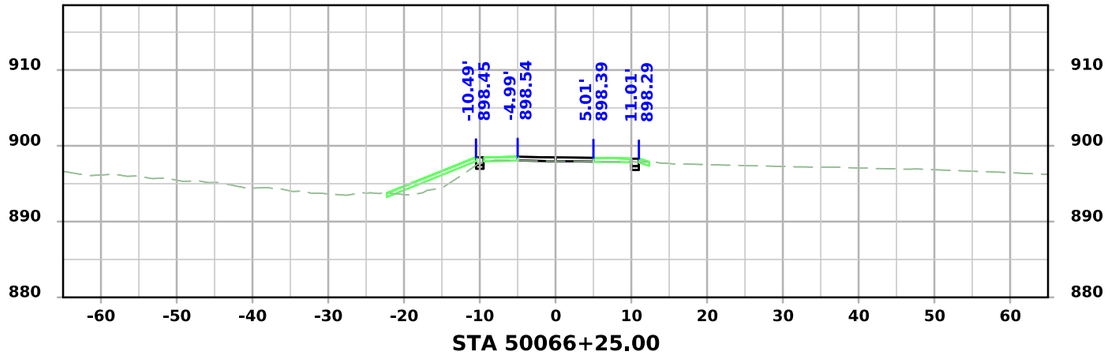
US 6 / Hickman Road Trail - Final Condition



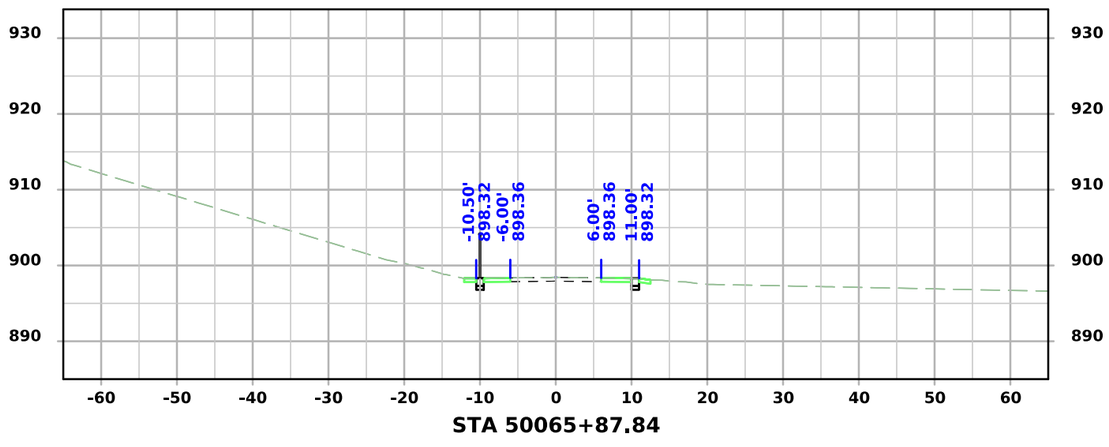
STA 50066+00.00



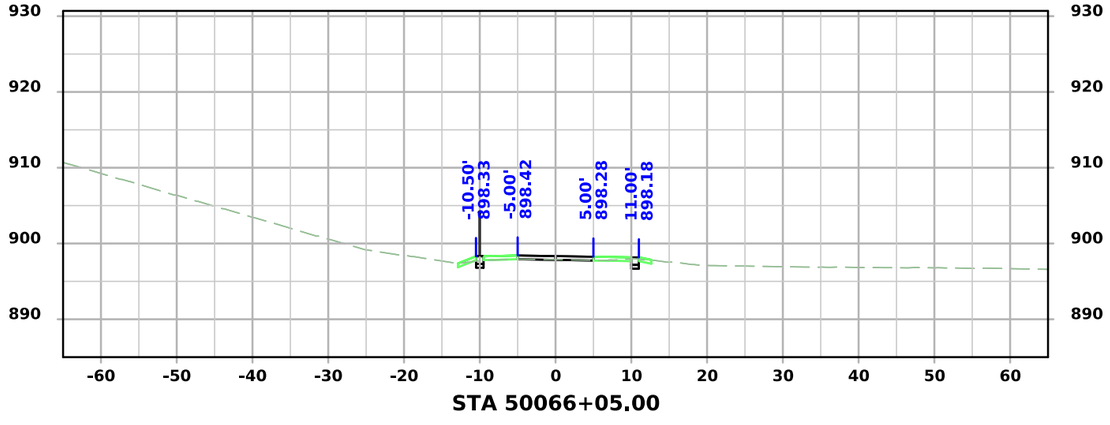
STA 50065+93.84



STA 50066+25.00



STA 50065+87.84



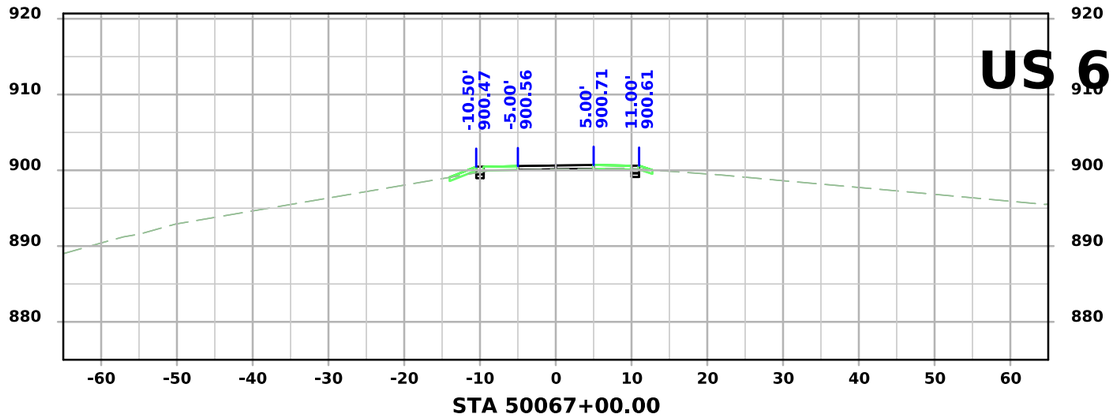
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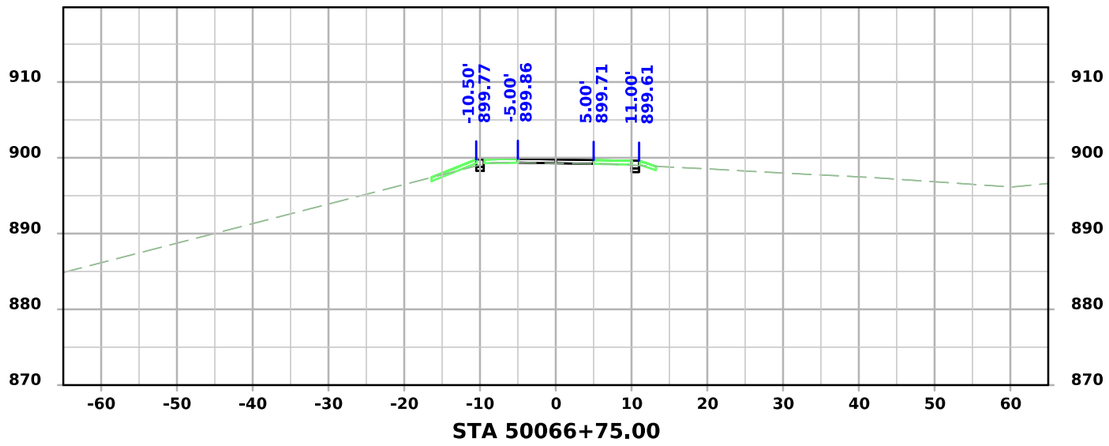
FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER X.409

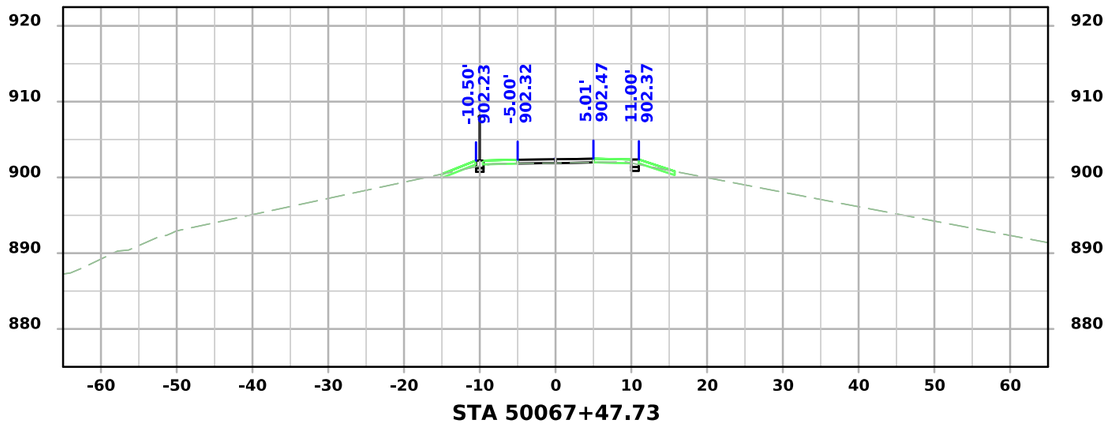
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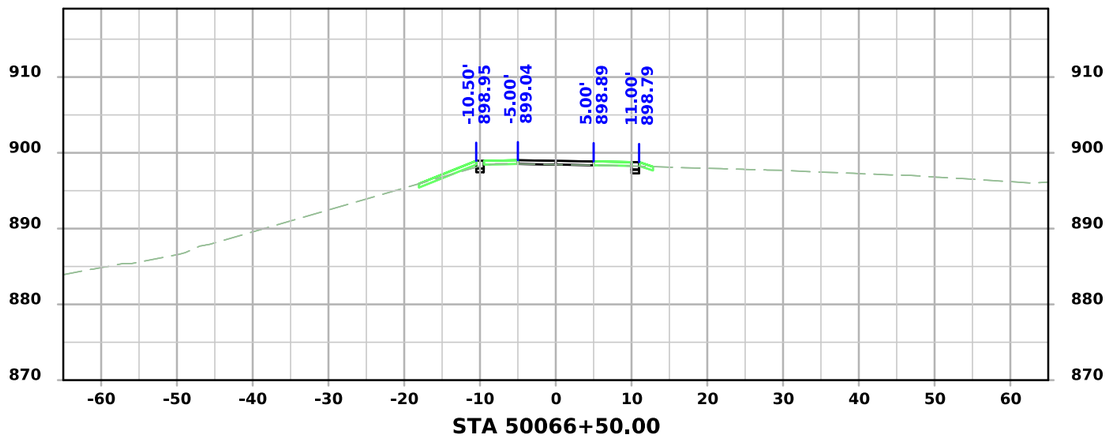
V2

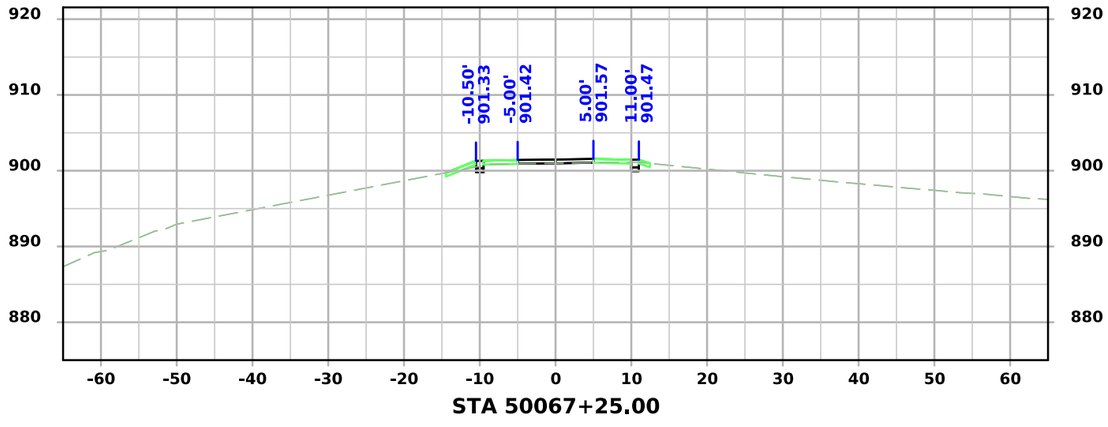
US 6 / Hickman Road Trail - Final Condition









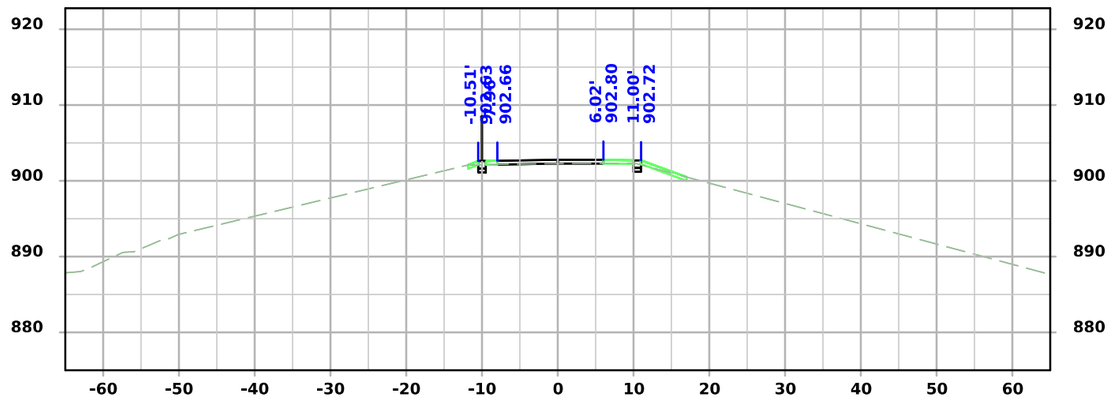


FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER X.410

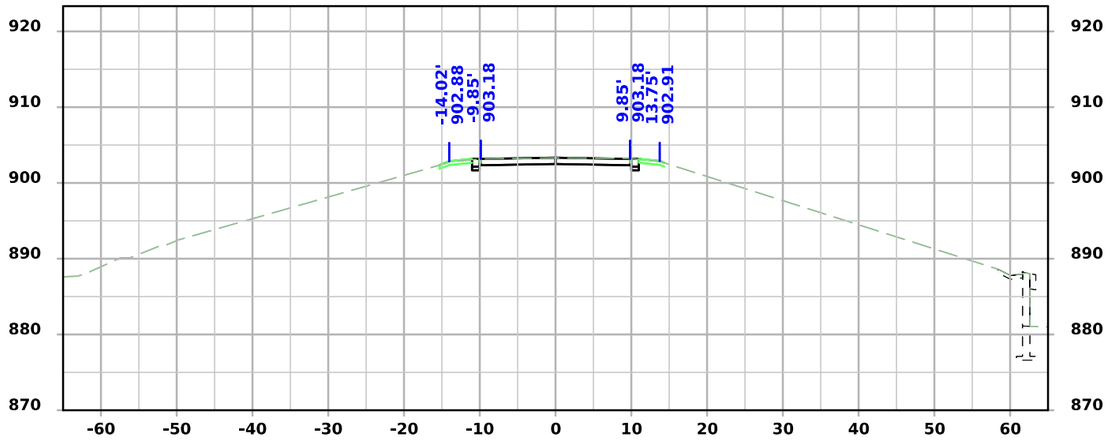
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V2

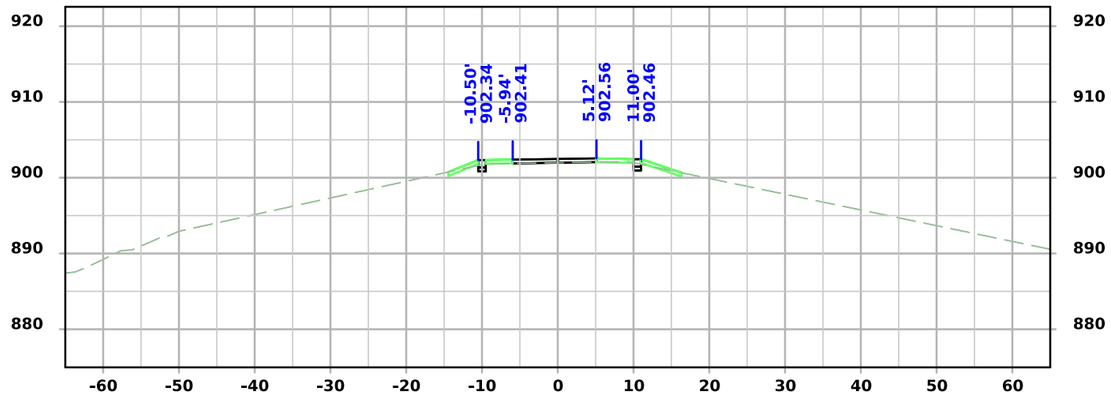
US 6 / Hickman Road Trail - Final Condition



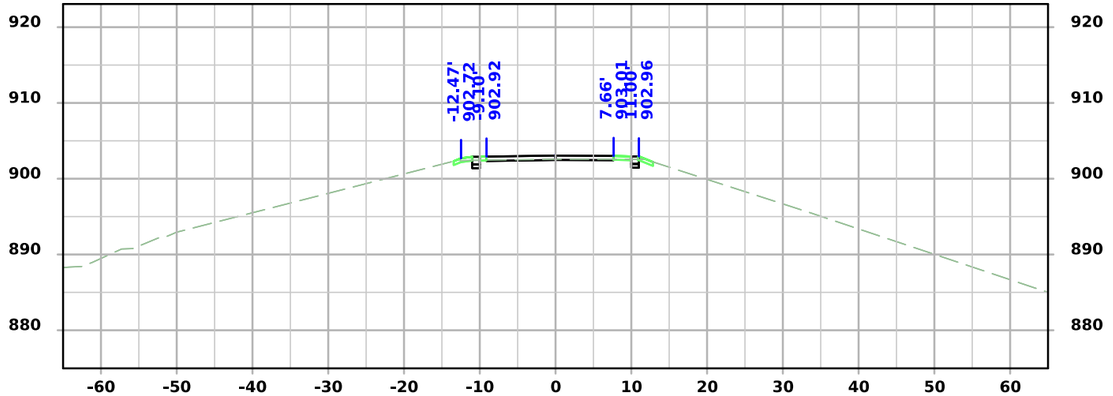
STA 50067+56.28



STA 50067+67.76



STA 50067+50.00



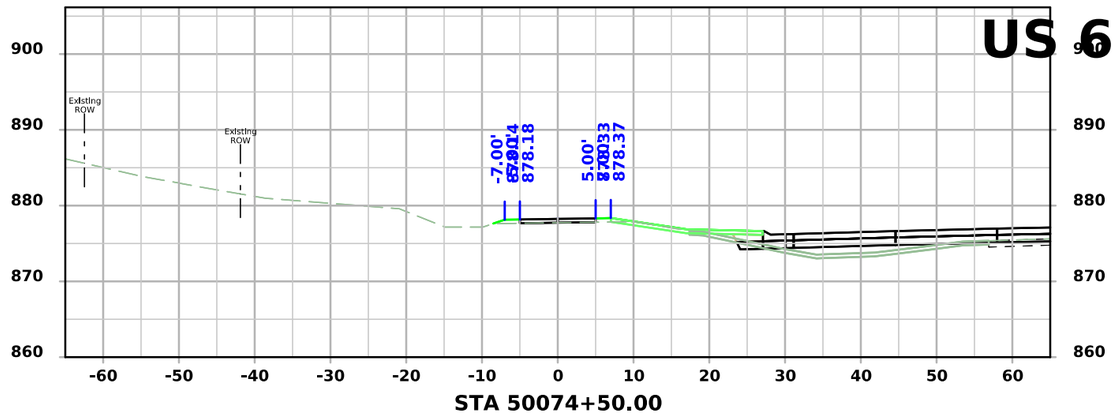
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FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER X.411

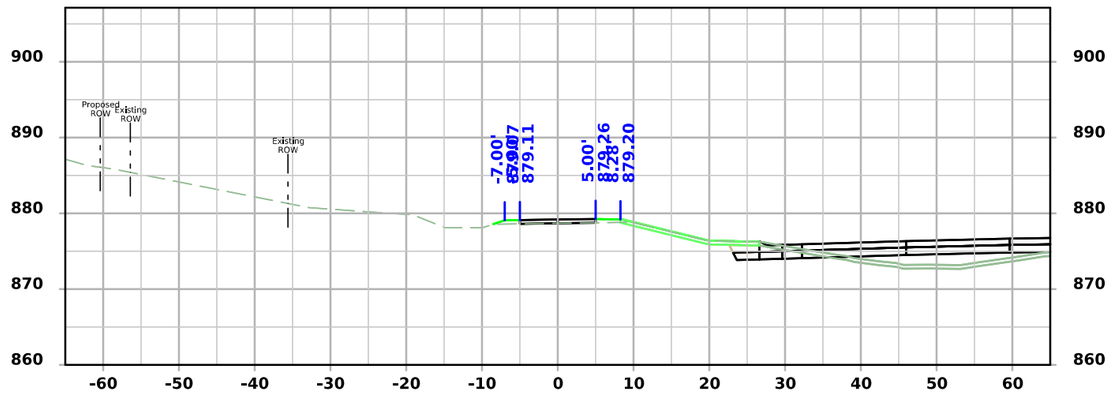
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V2

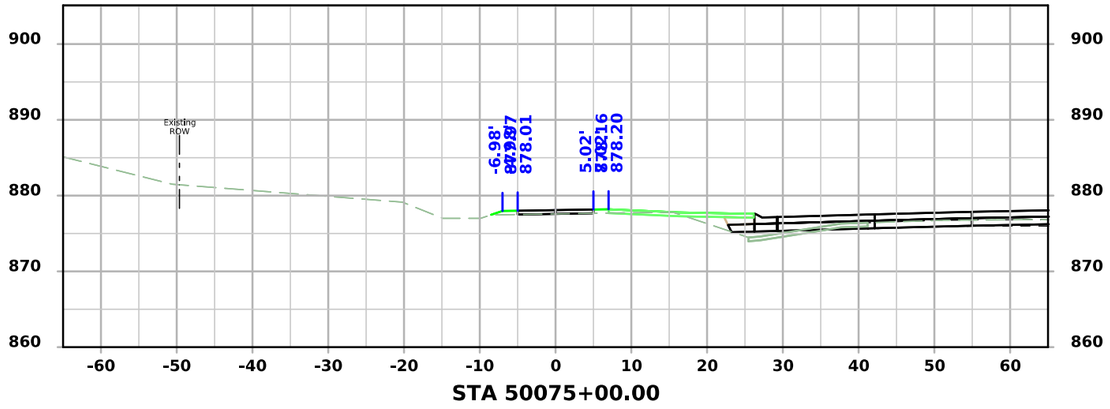
US 6 / Hickman Road Trail - Final Condition



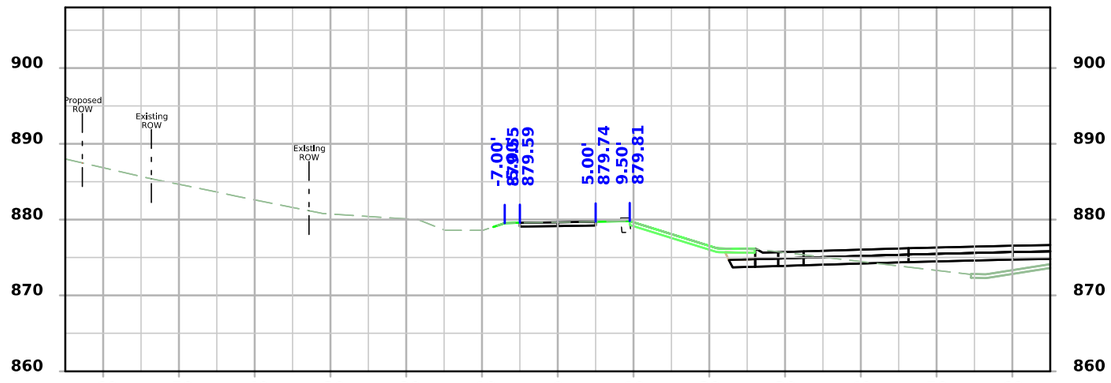
STA 50074+50.00



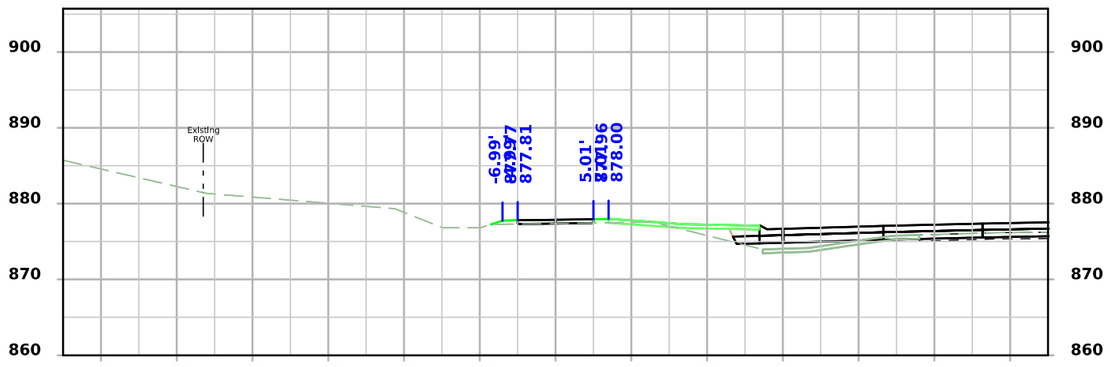
STA 50074+25.00



STA 50075+00.00



STA 50074+15.28



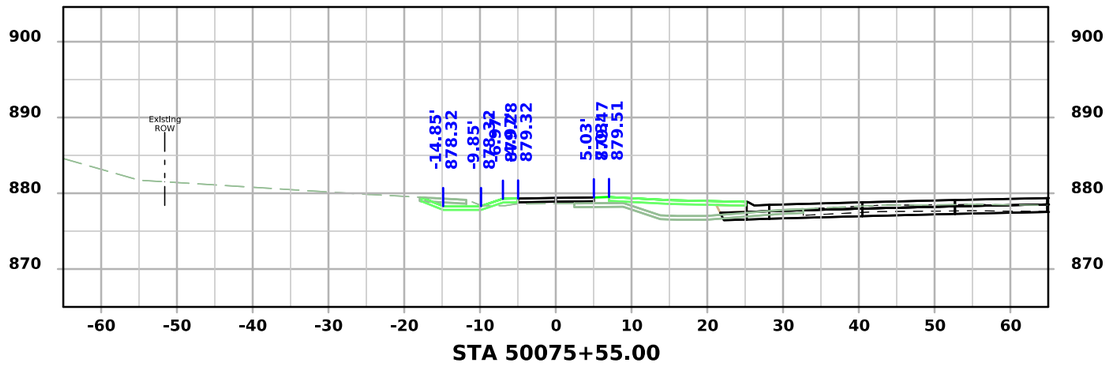
STA 50074+75.00

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER X.412

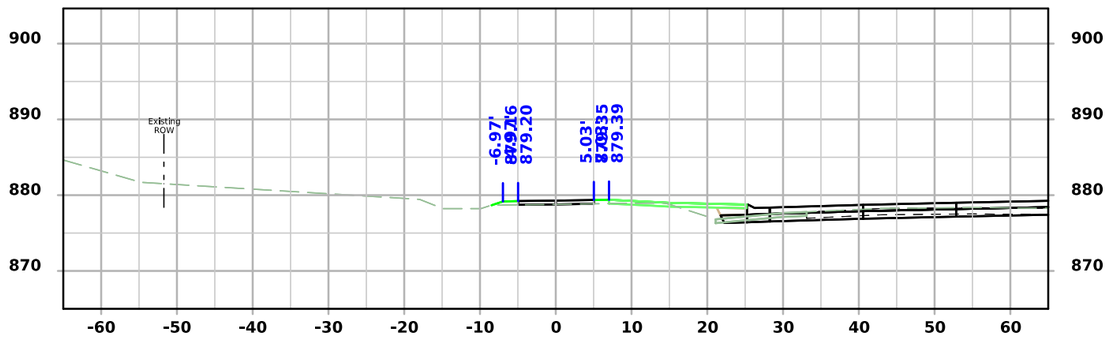
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V2

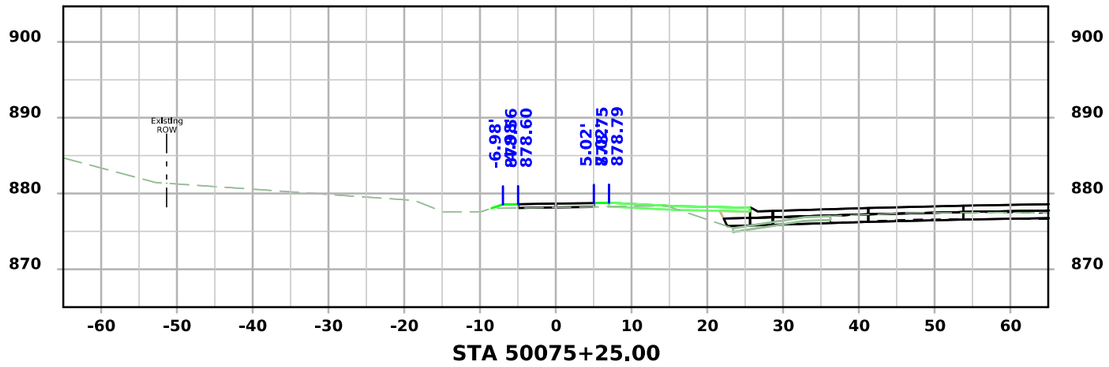
US 6 / Hickman Road Trail - Final Condition



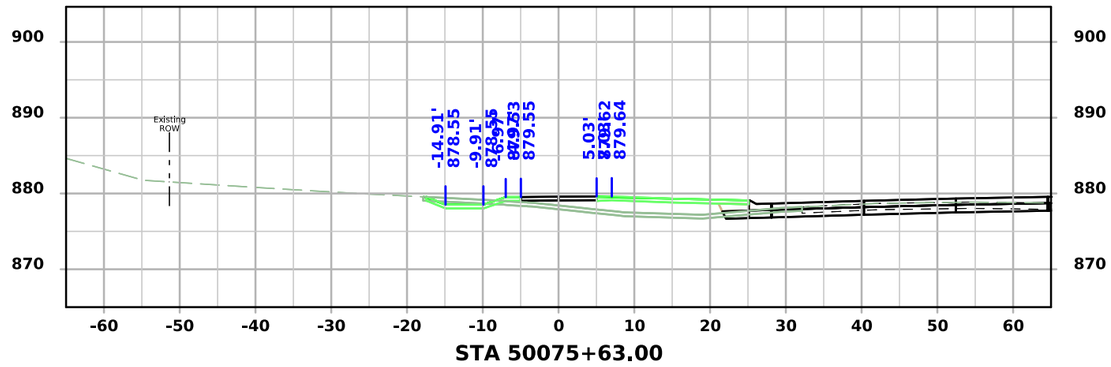
STA 50075+55.00



STA 50075+50.00



STA 50075+25.00



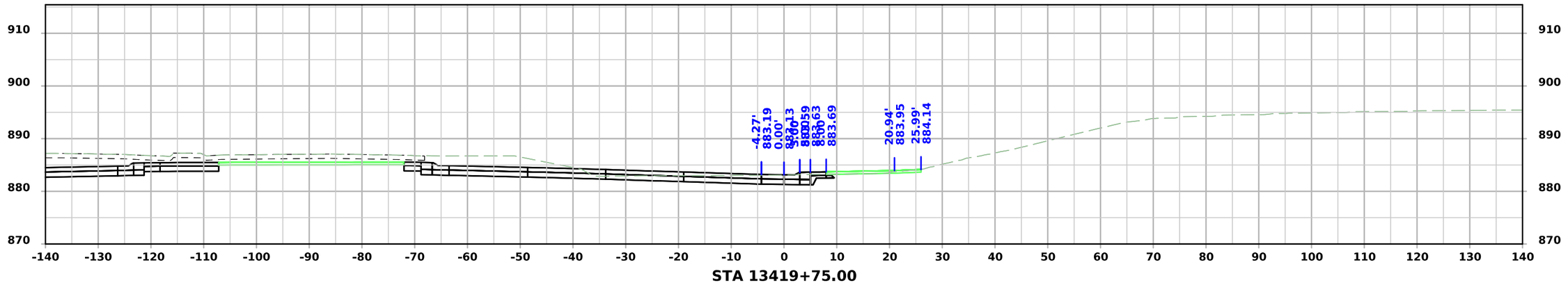
STA 50075+63.00

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER X.413

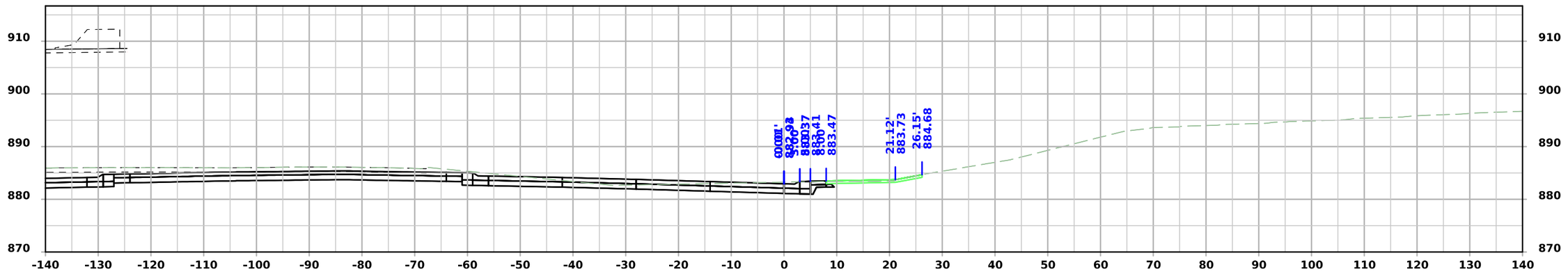
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V2

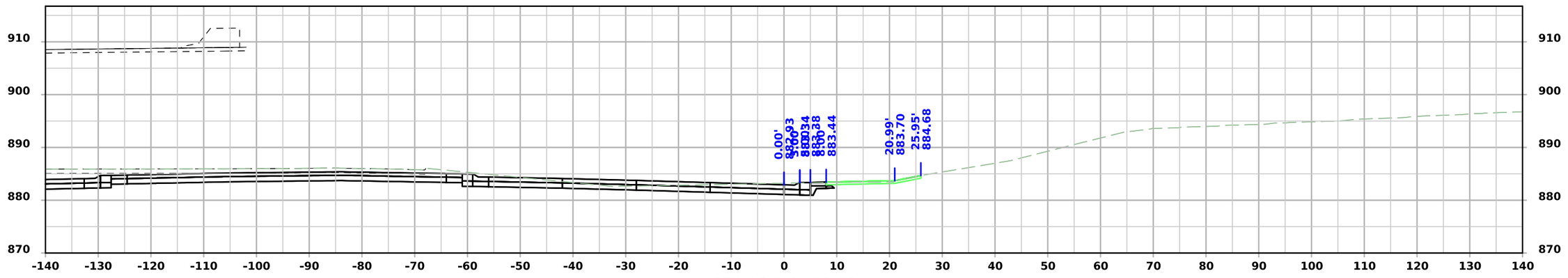
Hickman Road Ramp A-1 - Final Condition



STA 13419+75.00



STA 13419+50.00



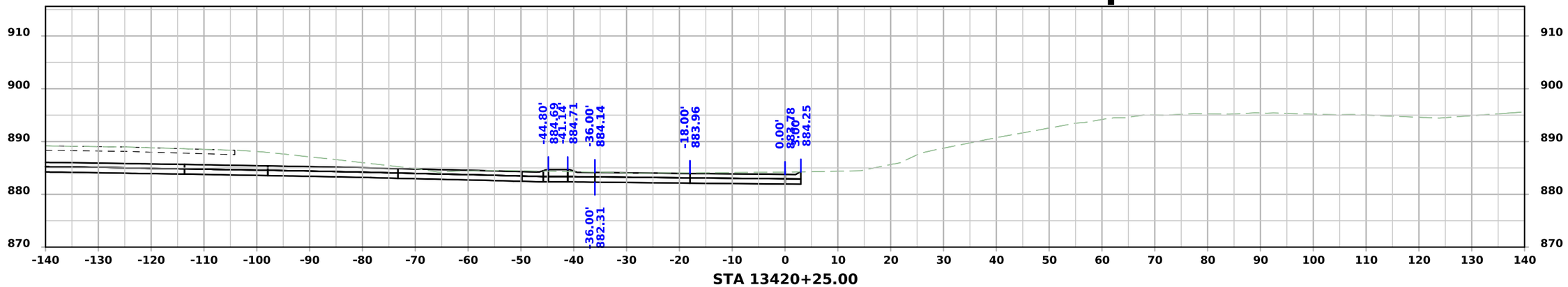
STA 13419+48.70

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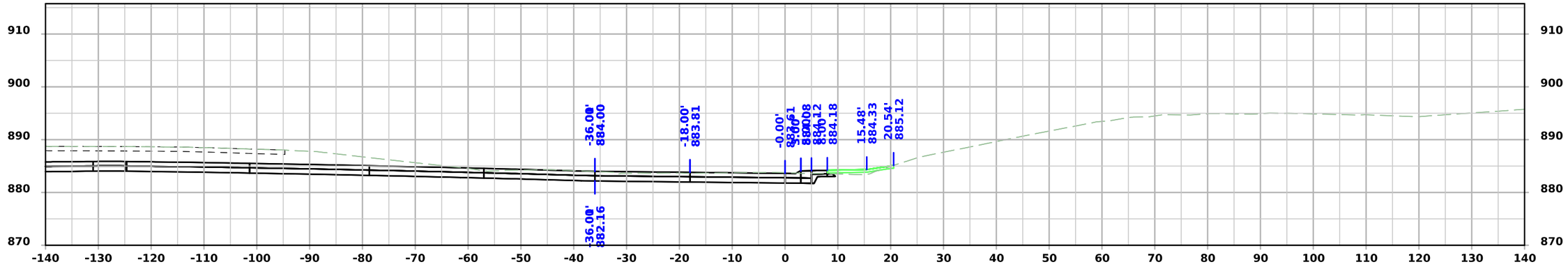
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V2

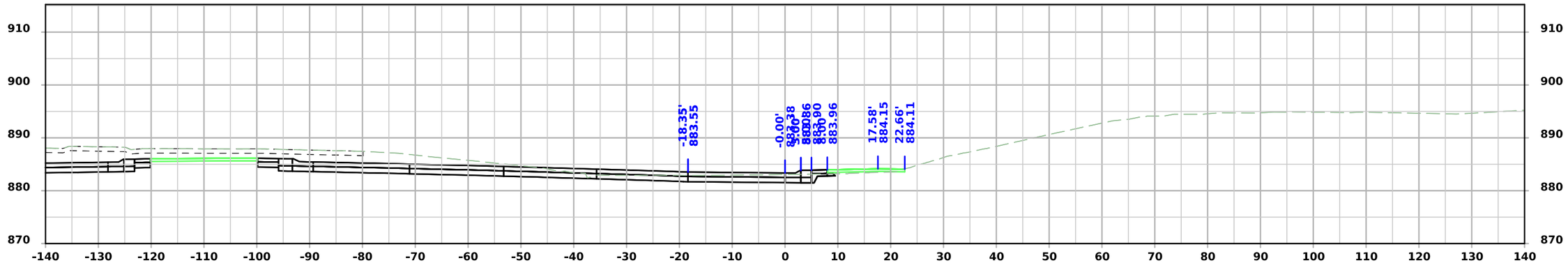
Hickman Road Ramp A-1 - Final Condition



STA 13420+25.00



STA 13420+15.70



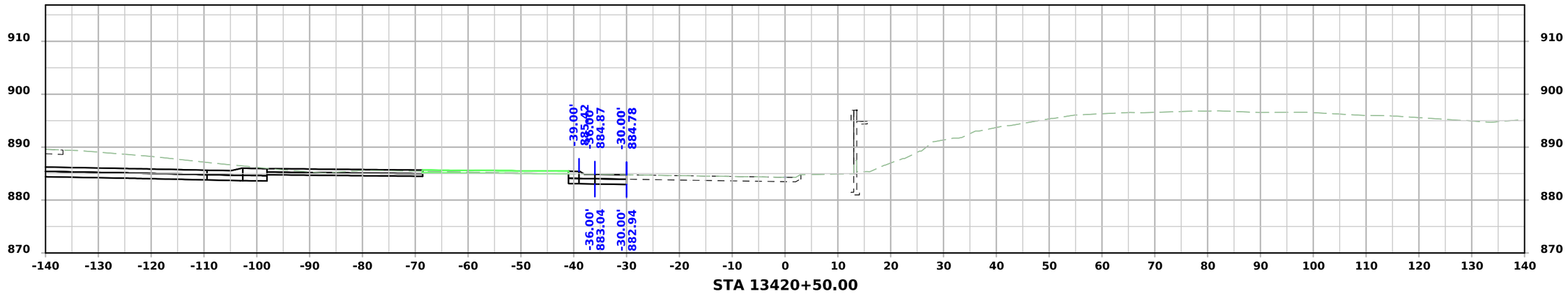
STA 13420+00.00

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER Y.101	

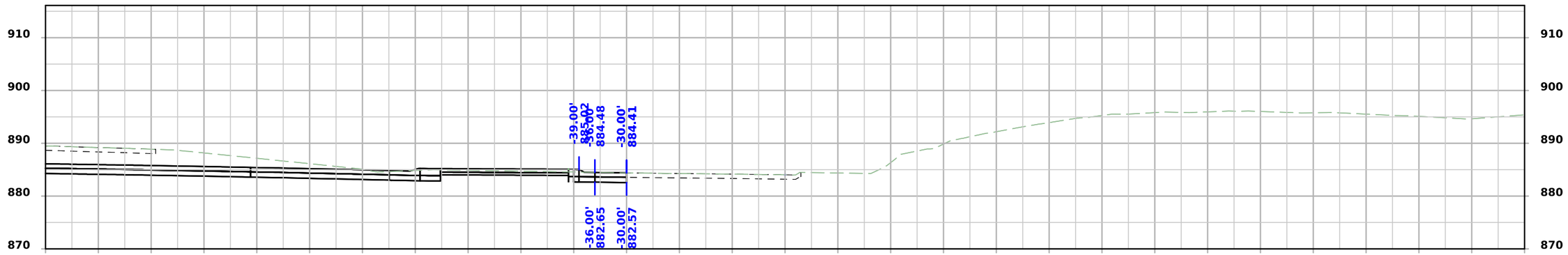
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V2

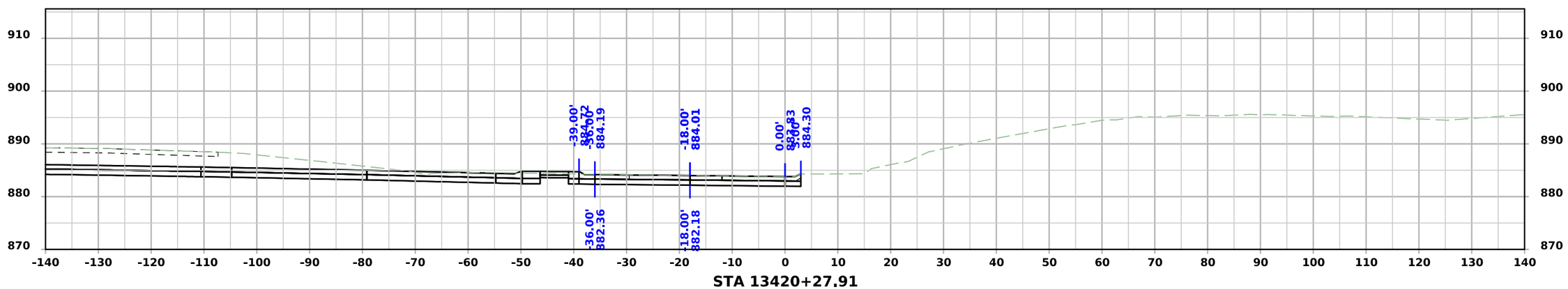
Hickman Road Ramp A-1 - Final Condition



STA 13420+50.00



STA 13420+37.72



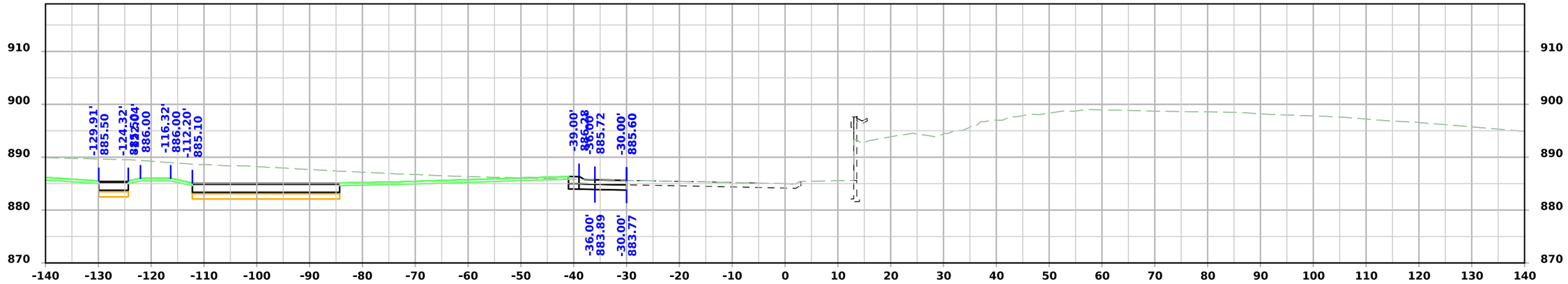
STA 13420+27.91

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER Y.102

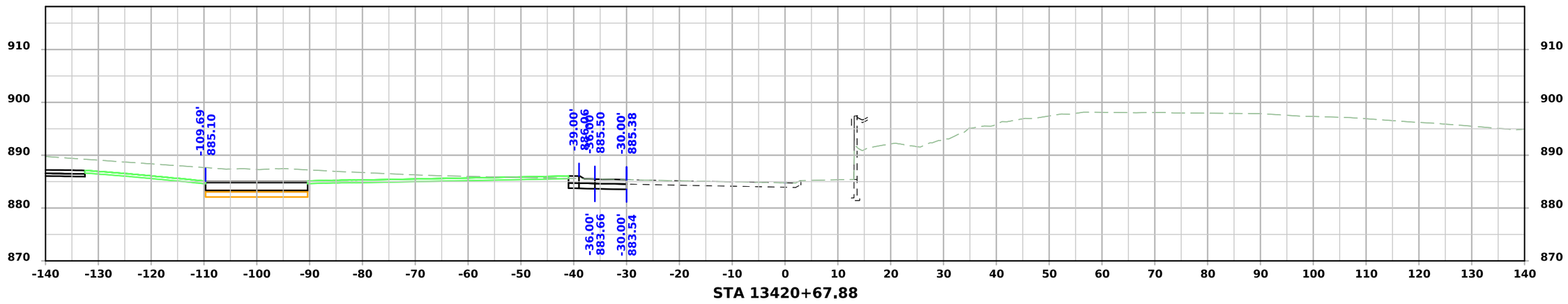
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V2

Hickman Road Ramp A-1 - Final Condition



STA 13420+75.00



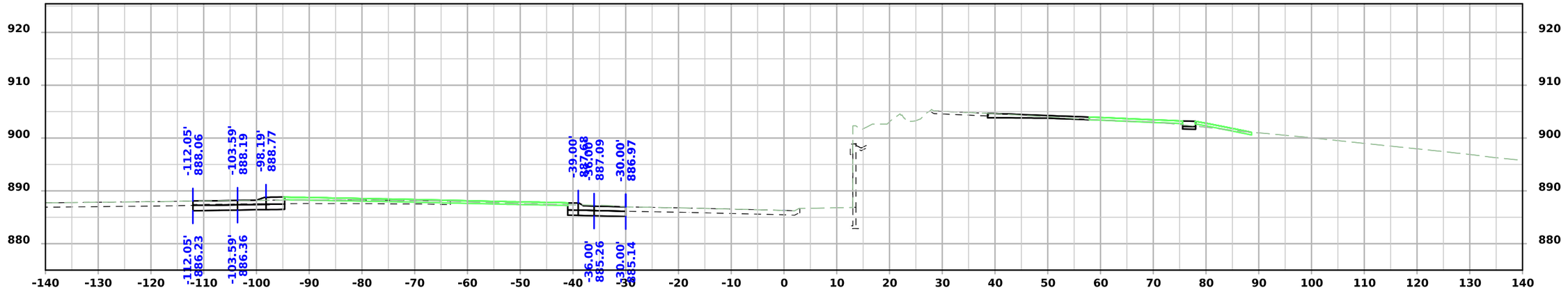
STA 13420+67.88

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER Y.103

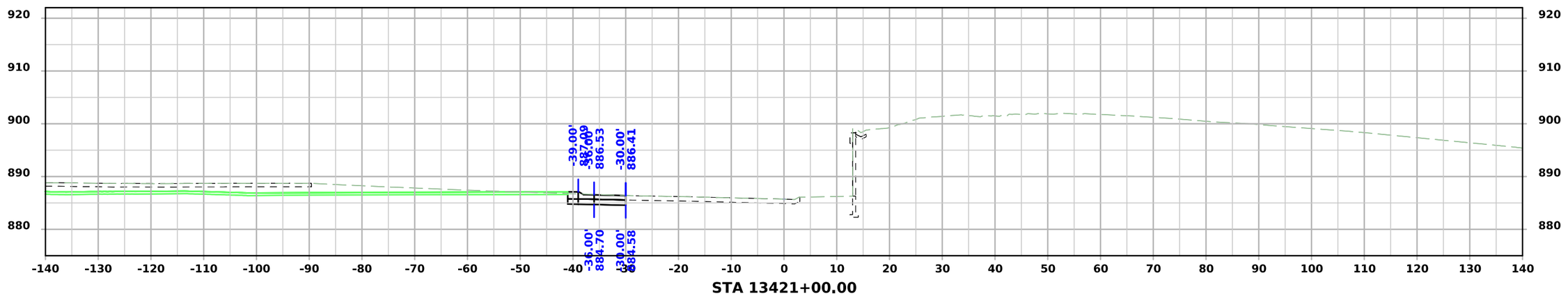
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V2

Hickman Road Ramp A-1 - Final Condition



STA 13421+18.80



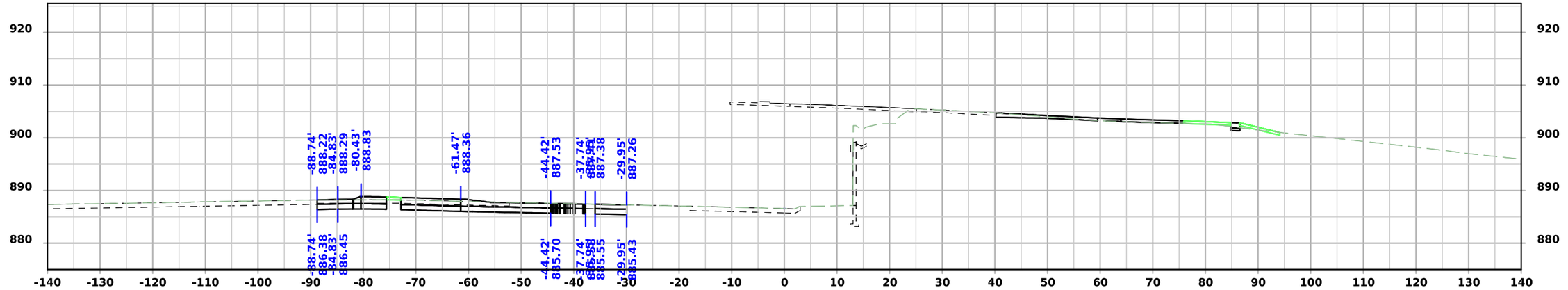
STA 13421+00.00

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER Y.104	

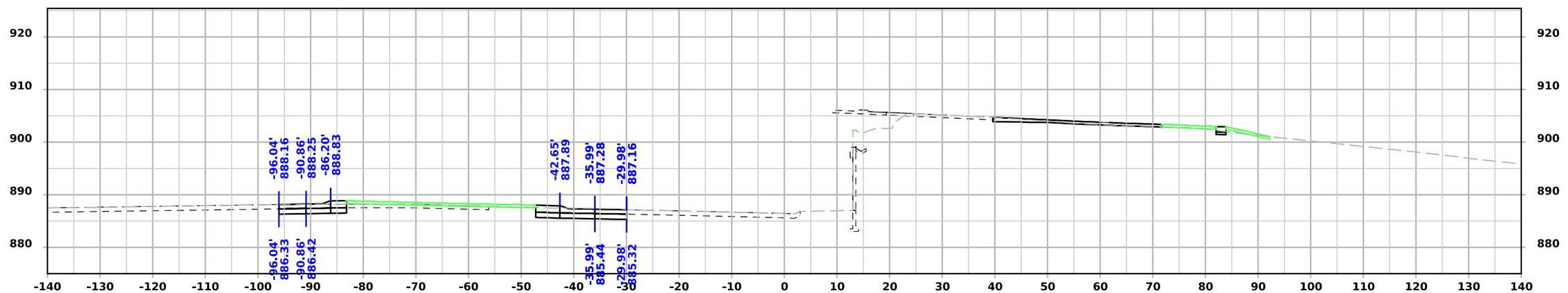
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V2

Hickman Road Ramp A-1 - Final Condition



STA 13421+28.66



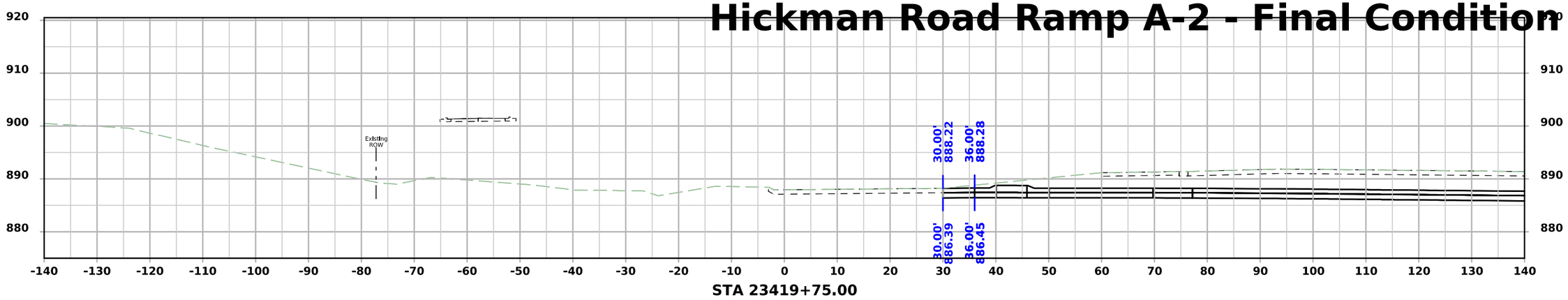
STA 13421+25.00

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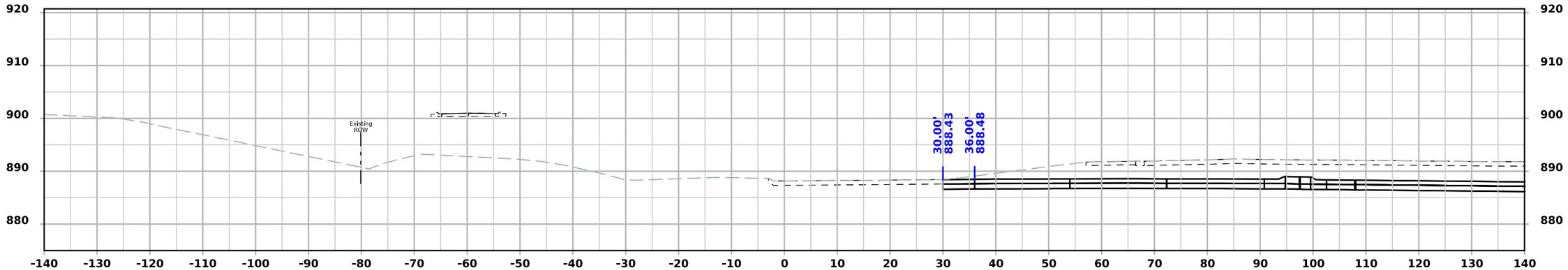
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V2

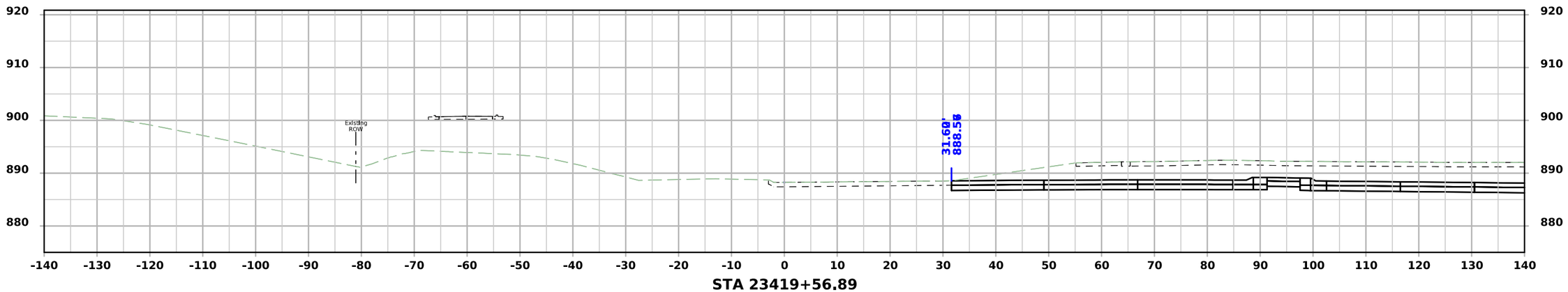
Hickman Road Ramp A-2 - Final Condition



STA 23419+75.00



STA 23419+61.83



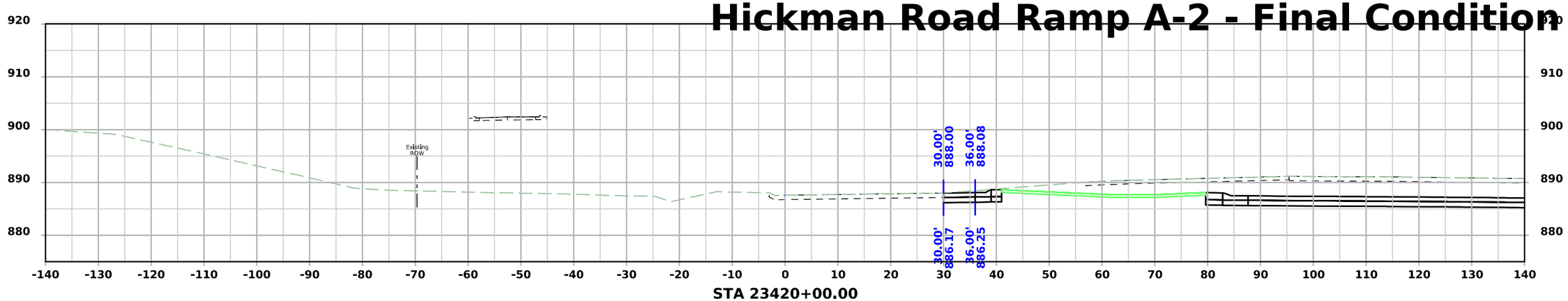
STA 23419+56.89

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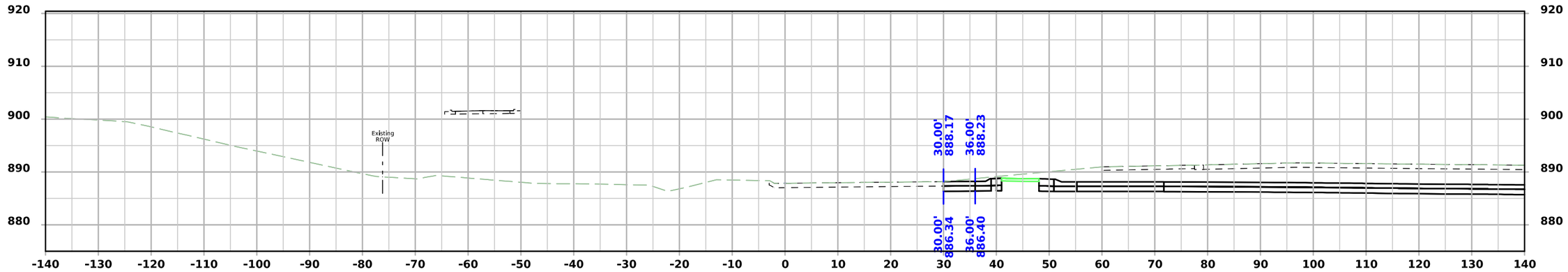
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V2

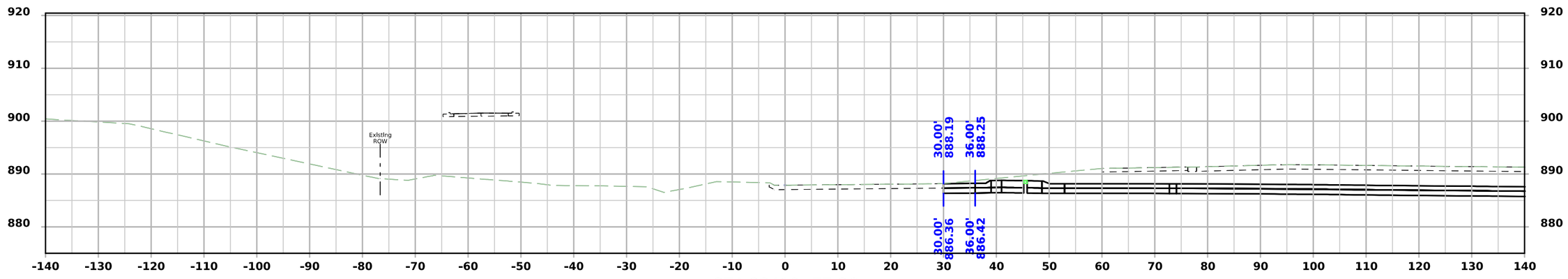
Hickman Road Ramp A-2 - Final Condition



STA 23420+00.00



STA 23419+79.04



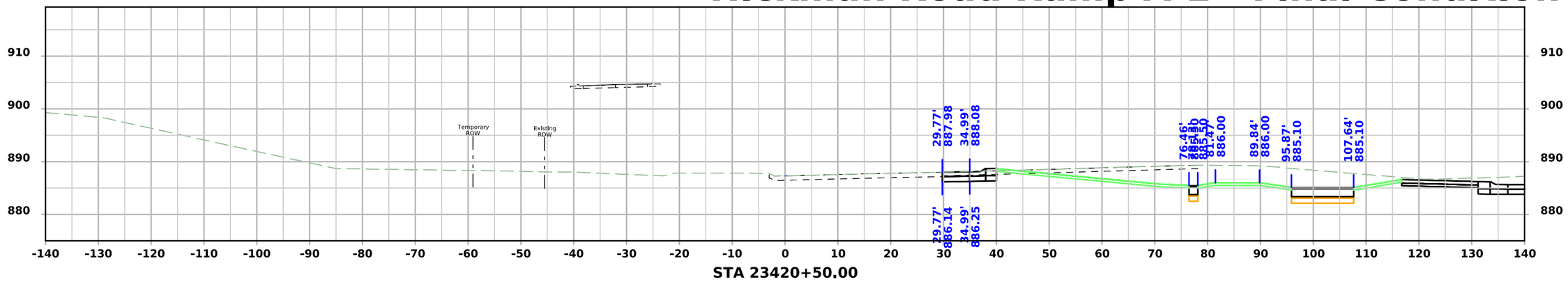
STA 23419+77.26

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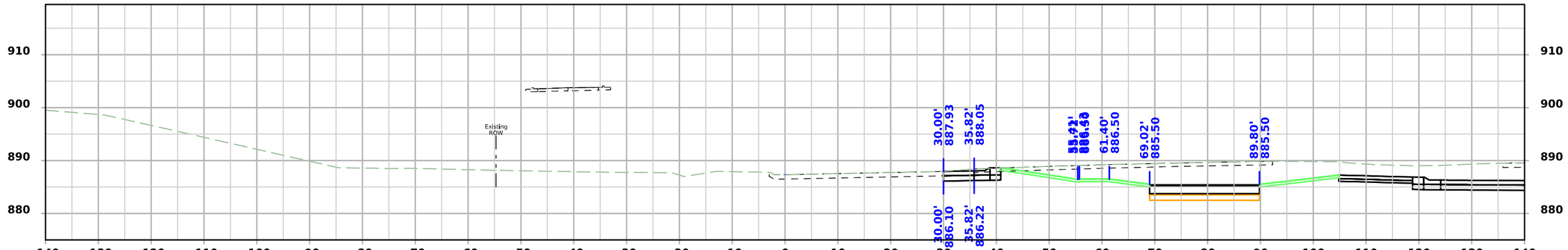
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V2

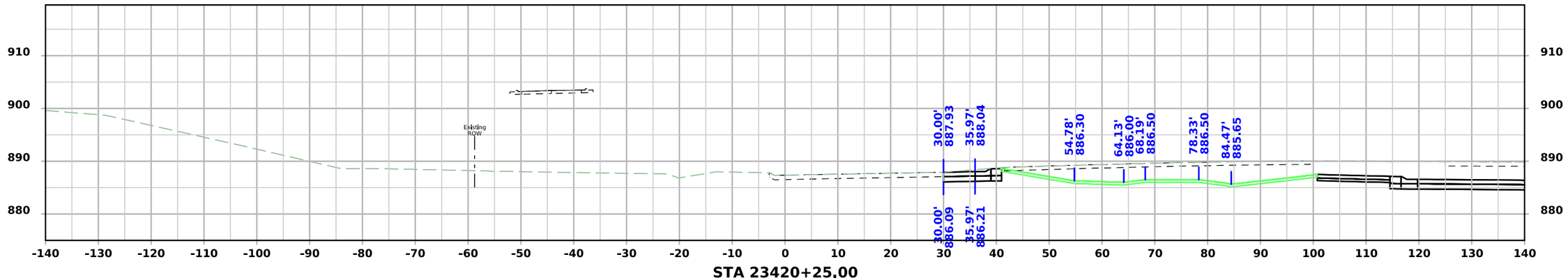
Hickman Road Ramp A-2 - Final Condition



STA 23420+50.00



STA 23420+32.42



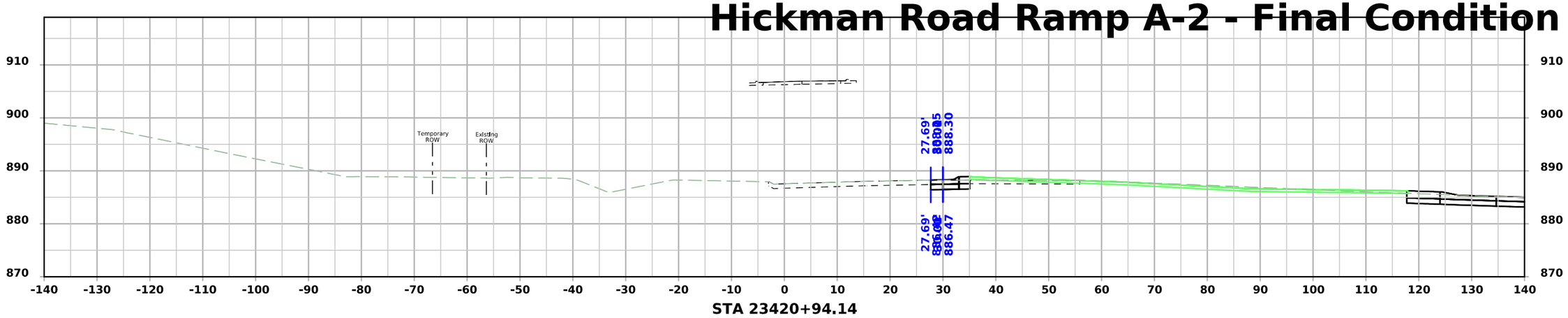
STA 23420+25.00

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER Y.202

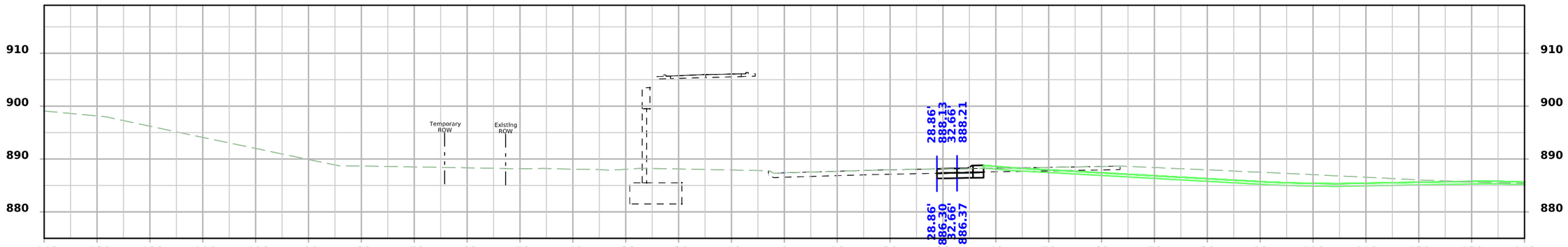
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V2

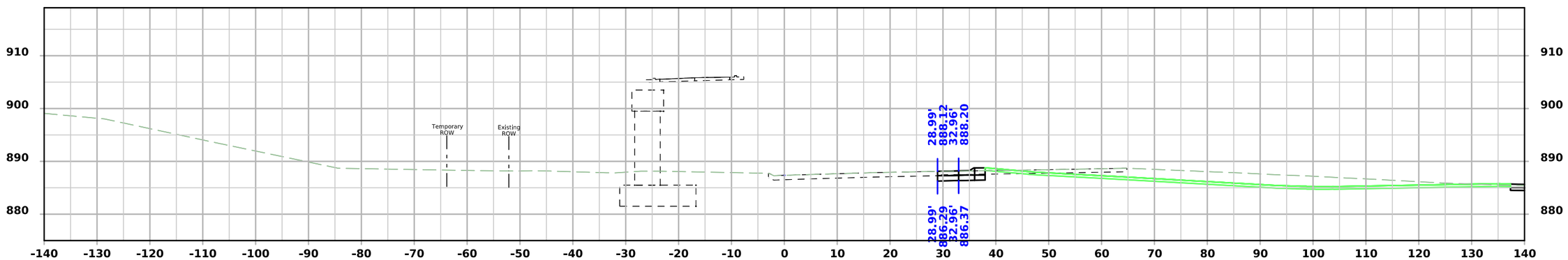
Hickman Road Ramp A-2 - Final Condition



STA 23420+94.14



STA 23420+75.00



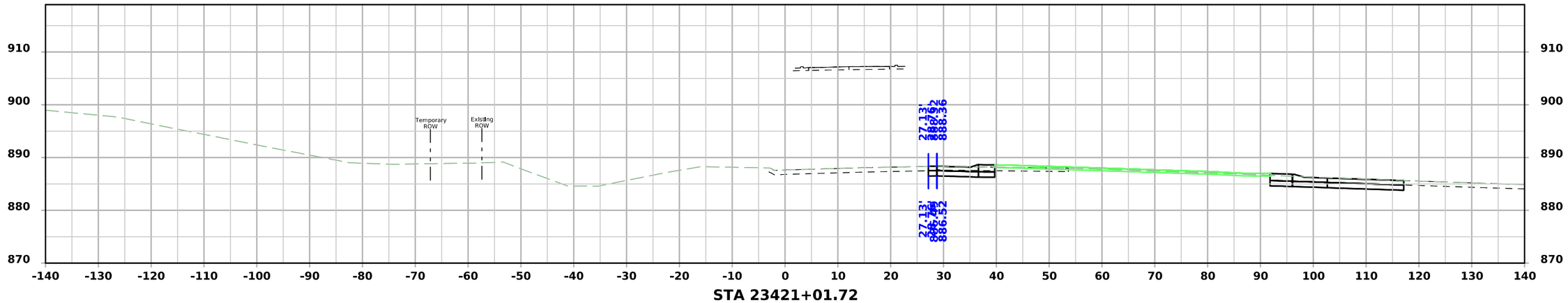
STA 23420+72.42

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER Y.203

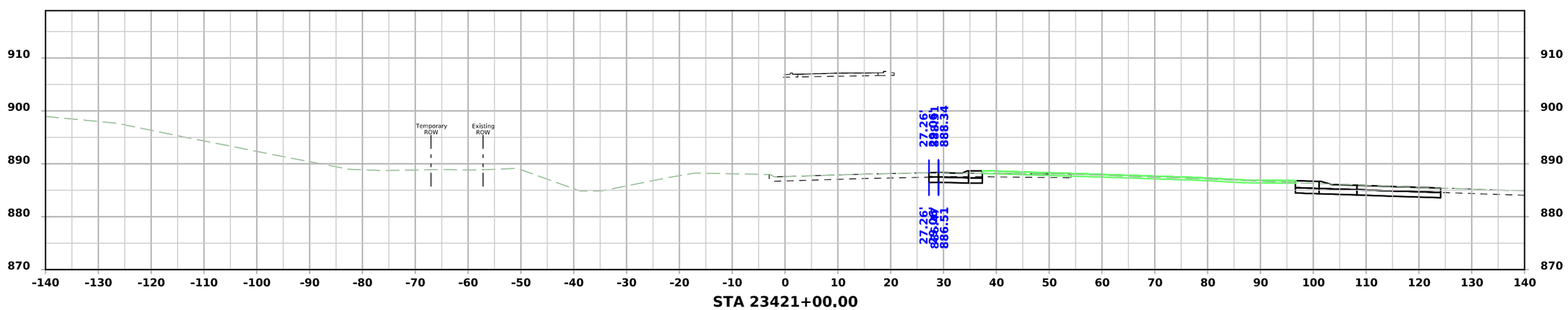
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V2

Hickman Road Ramp A-2 - Final Condition



STA 23421+01.72



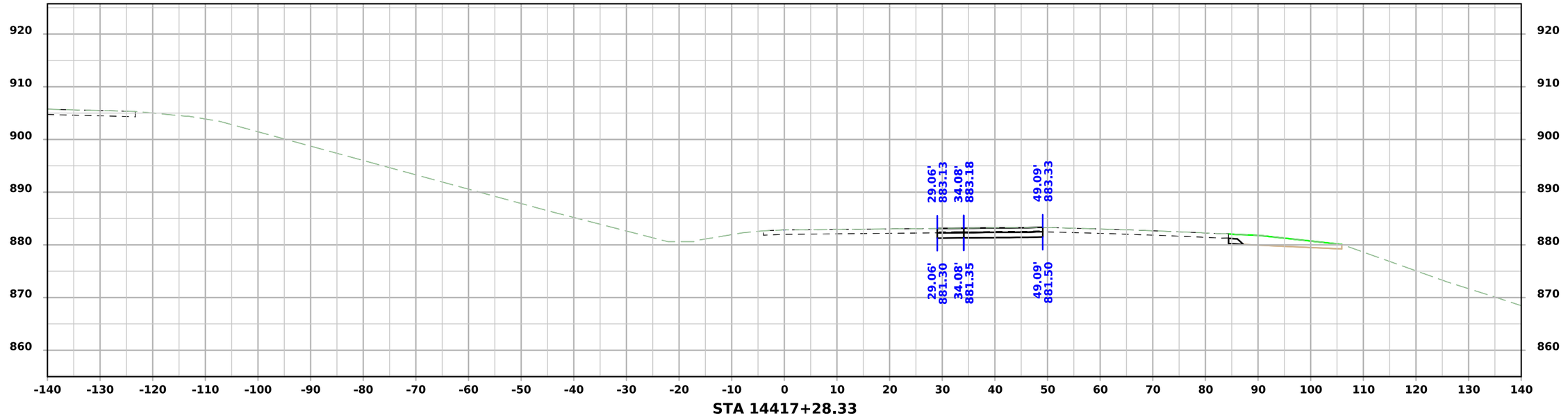
STA 23421+00.00

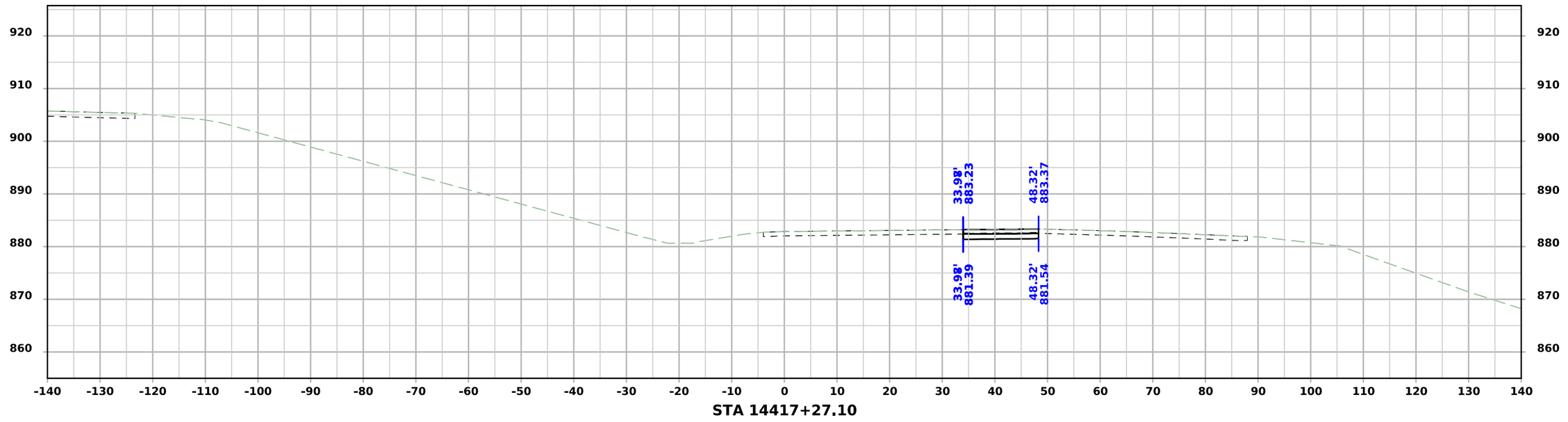
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V2

Hickman Road Ramp B-1 - Final Condition



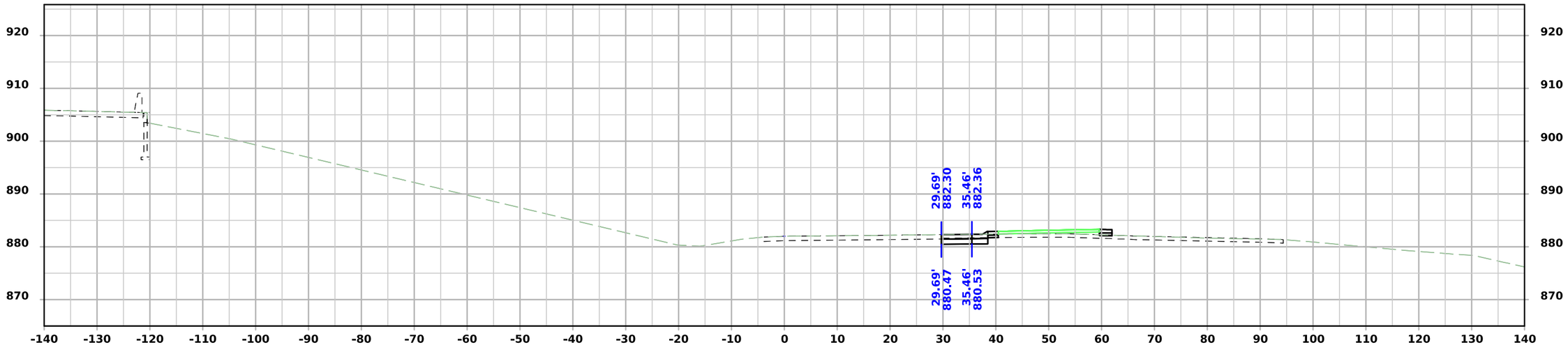


FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER Y.300

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V2

Hickman Road Ramp B-1 - Final Condition

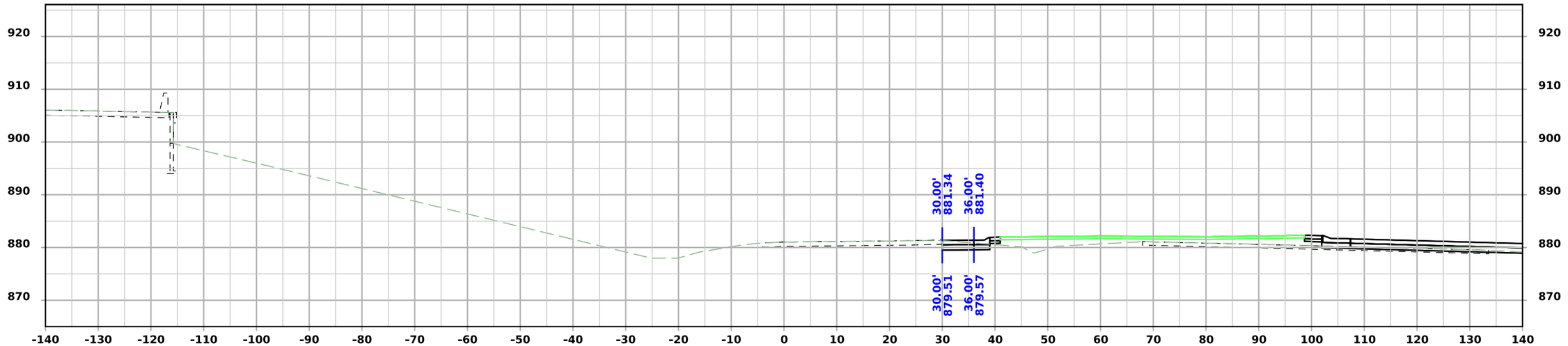


FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER Y.301

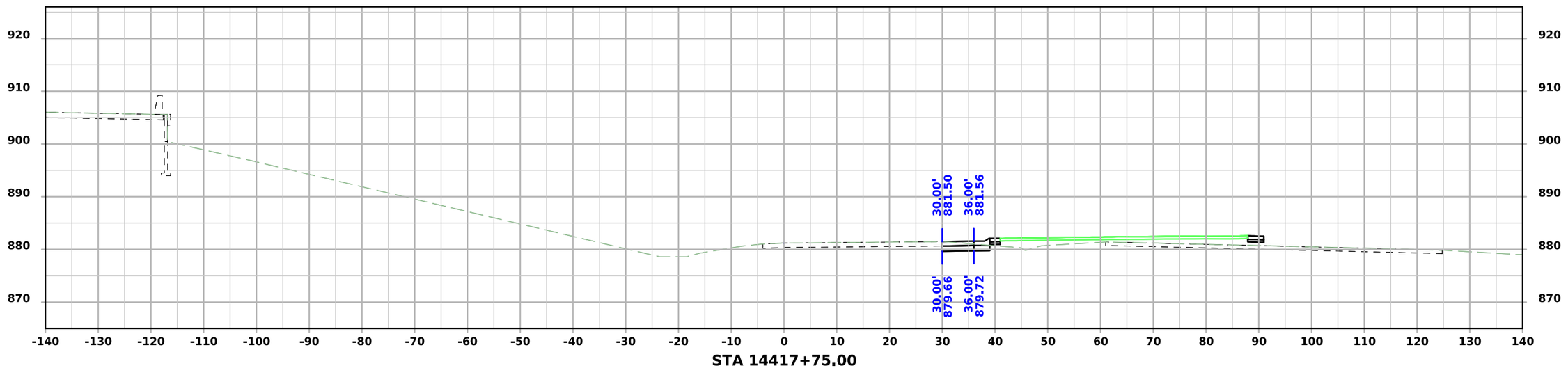
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V2

Hickman Road Ramp B-1 - Final Condition



STA 14417+80.73



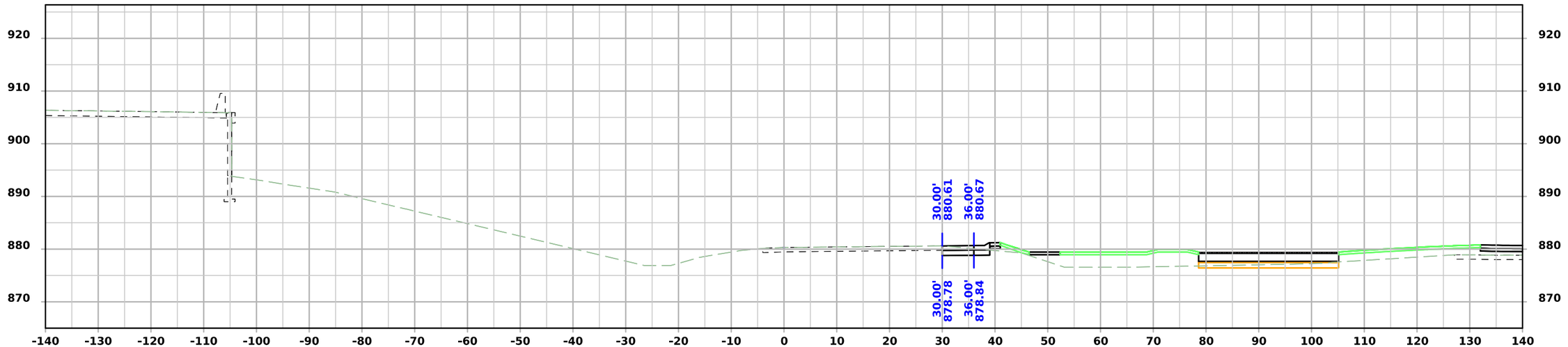
STA 14417+75.00

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER Y.302

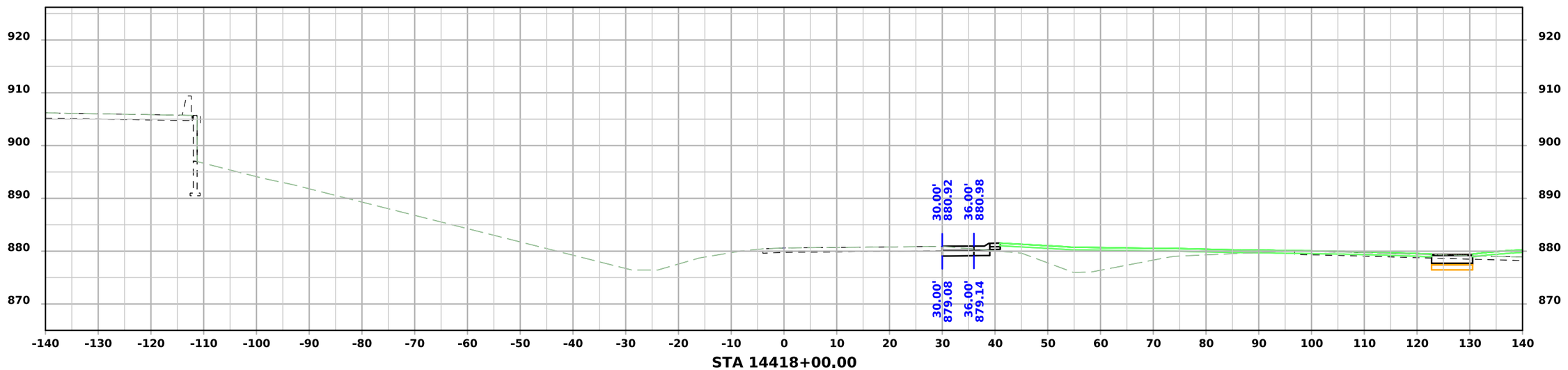
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V2

Hickman Road Ramp B-1 - Final Condition



STA 14418+20.73



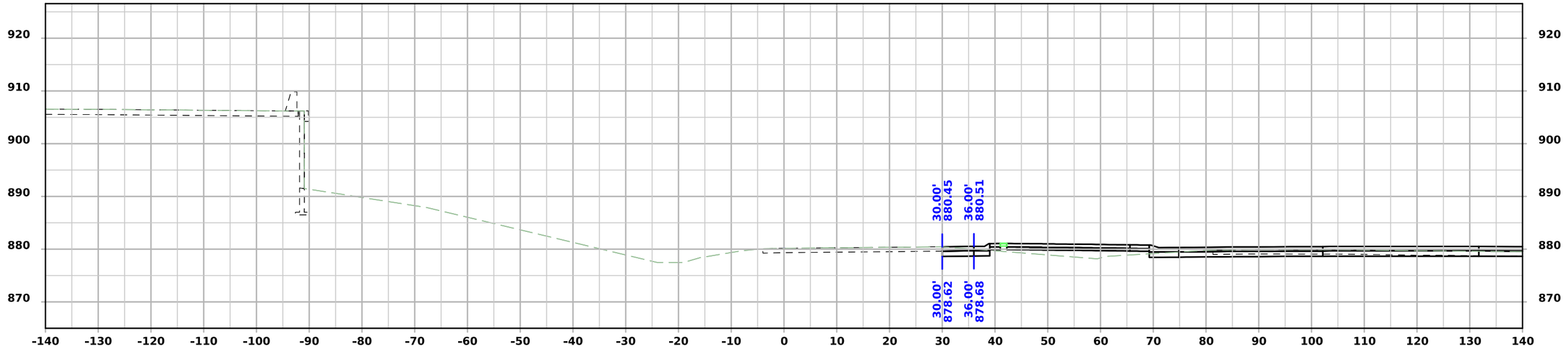
STA 14418+00.00

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER Y.303

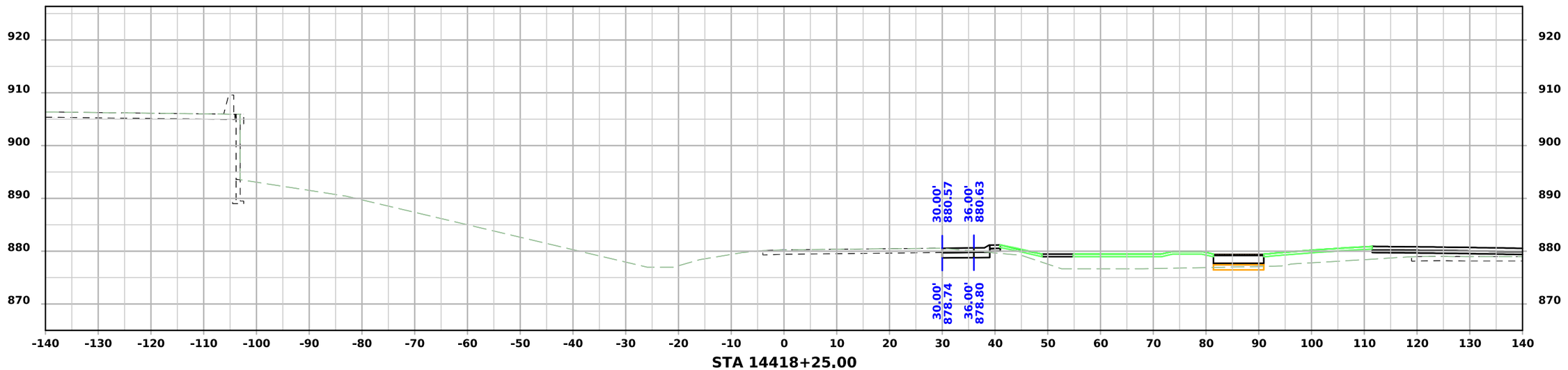
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V2

Hickman Road Ramp B-1 - Final Condition



STA 14418+50.00



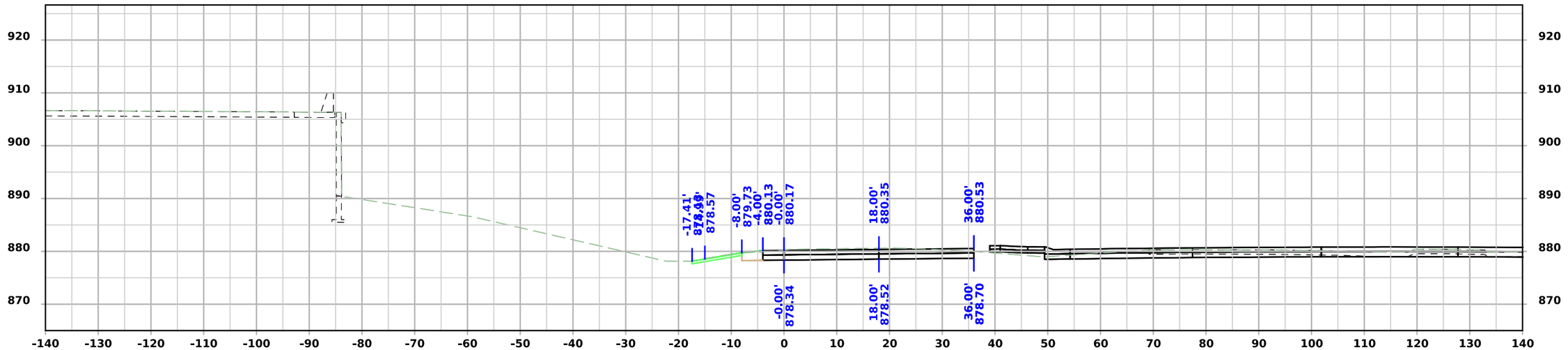
STA 14418+25.00

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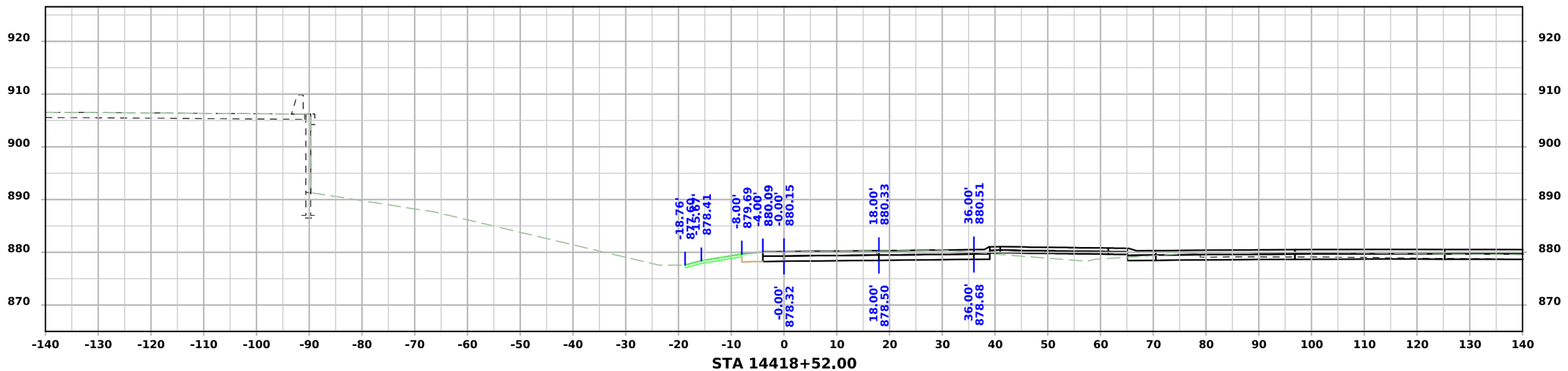
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V2

Hickman Road Ramp B-1 - Final Condition



STA 14418+60.73



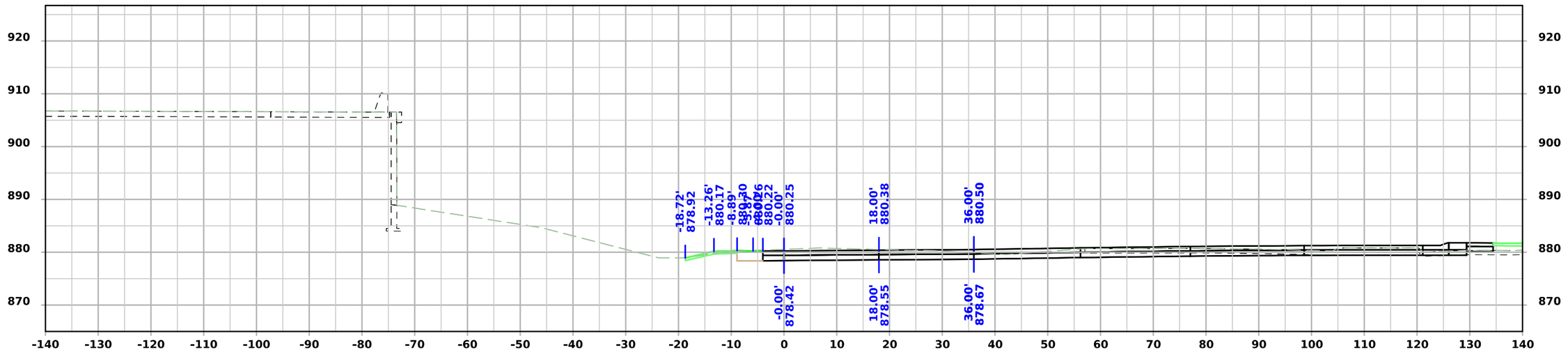
STA 14418+52.00

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER Y.305

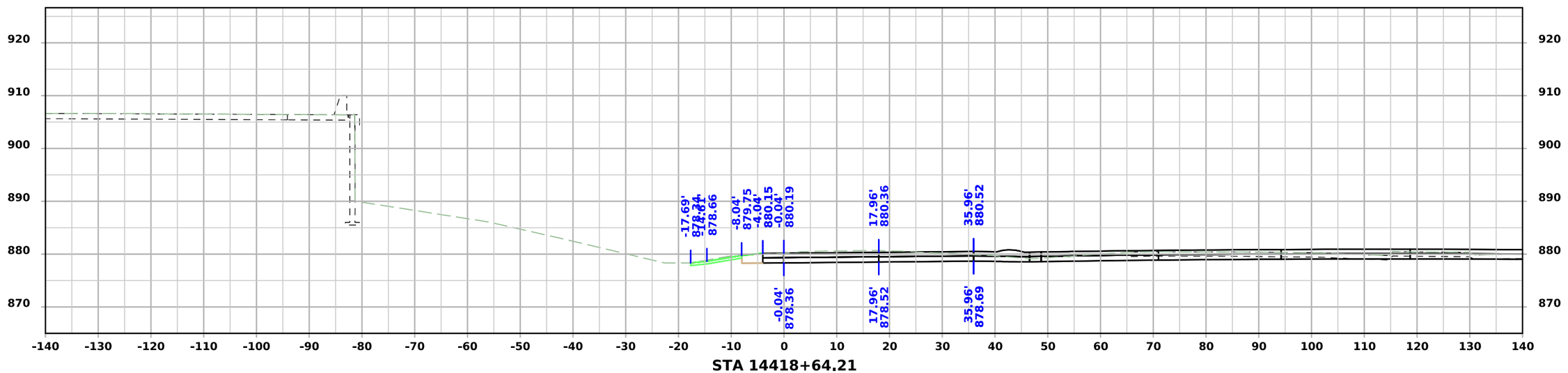
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V2

Hickman Road Ramp B-1 - Final Condition



STA 14418+73.63



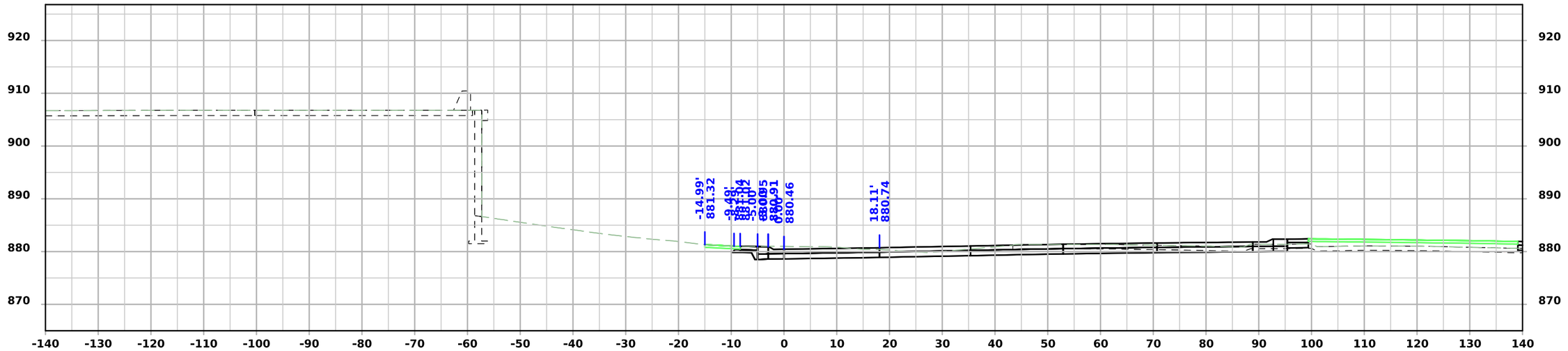
STA 14418+64.21

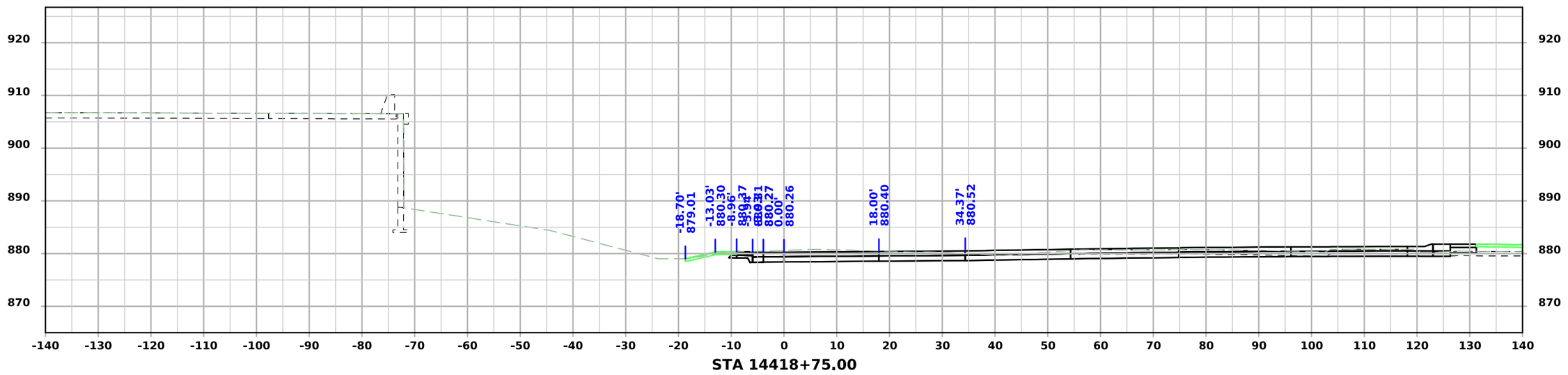
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V2

Hickman Road Ramp B-1 - Final Condition



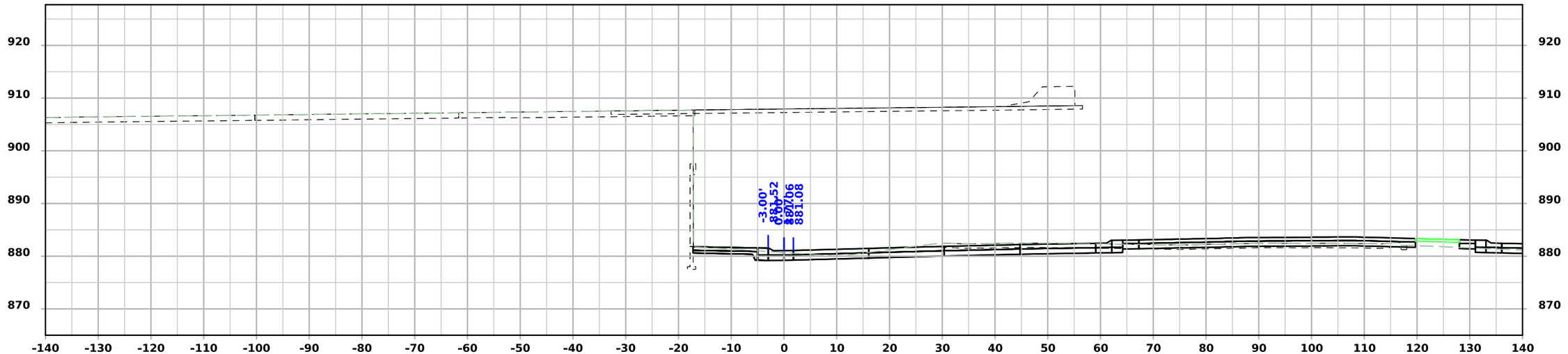


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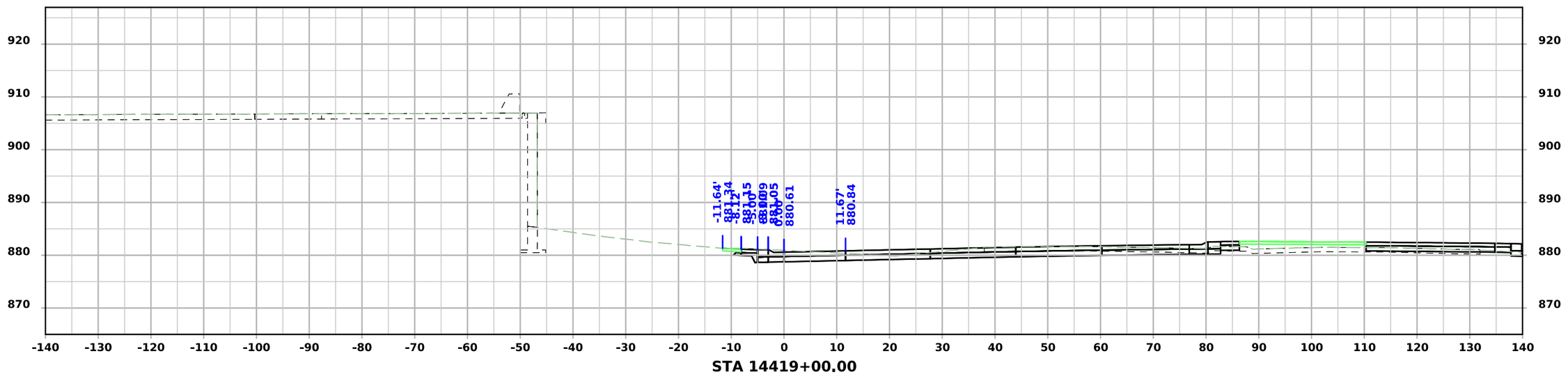
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V2

Hickman Road Ramp B-1 - Final Condition



STA 14419+25.00



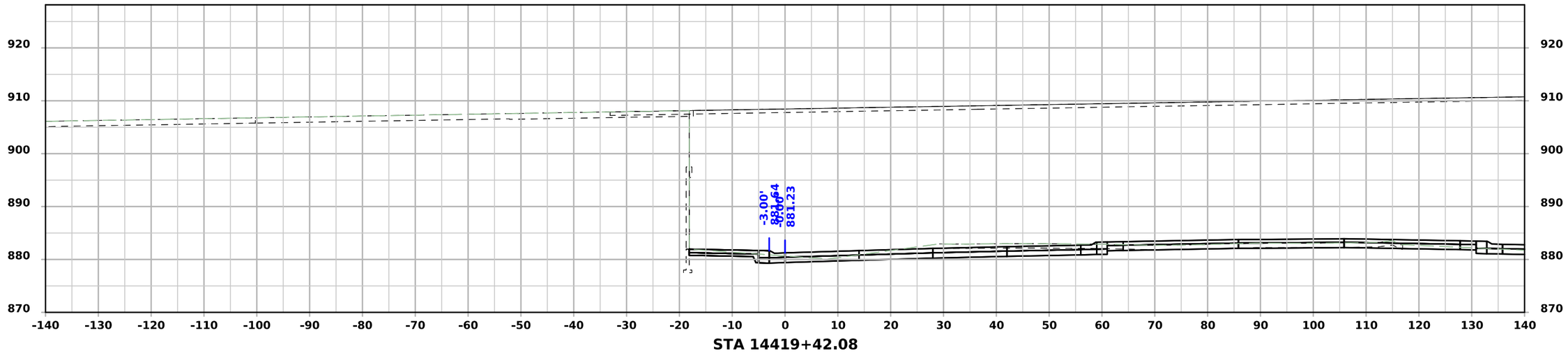
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V2

Hickman Road Ramp B-1 - Final Condition

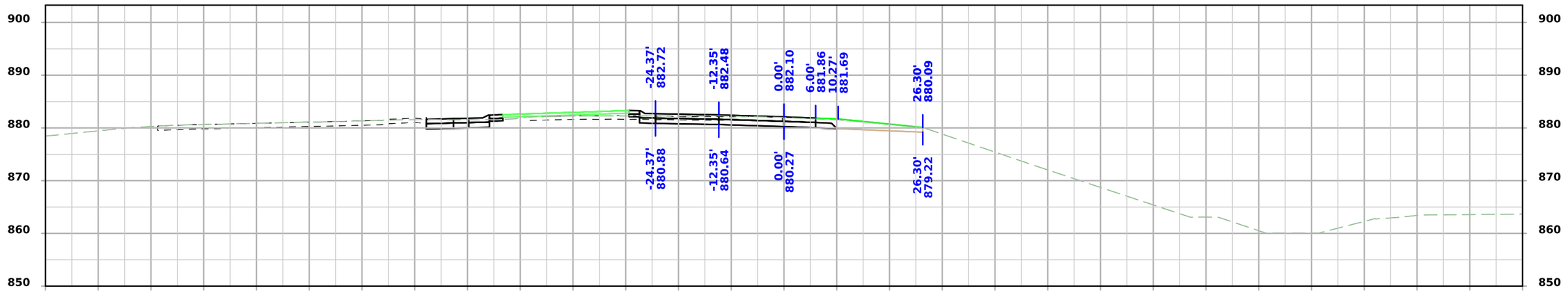


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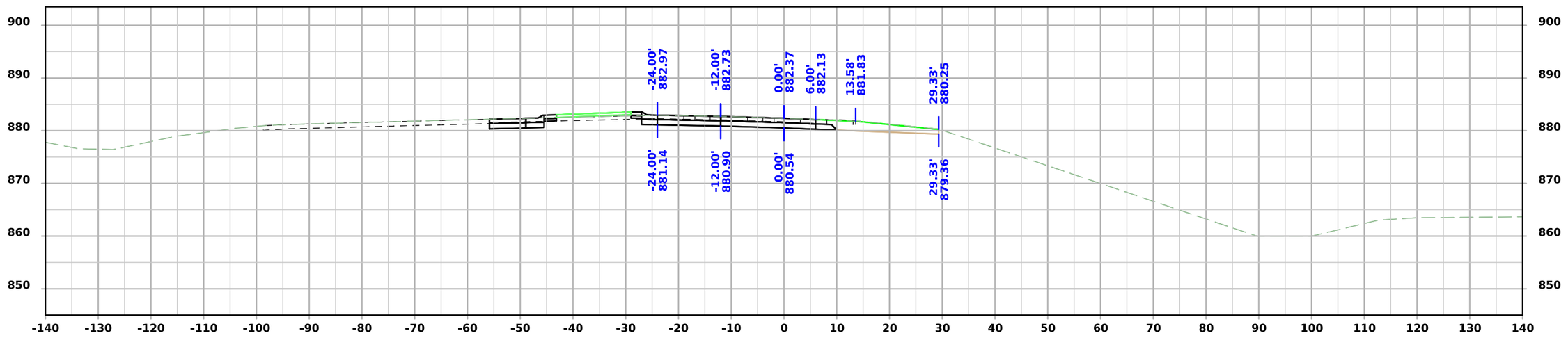
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V2

Hickman Road Ramp B-2 - Final Condition



STA 24417+75.00



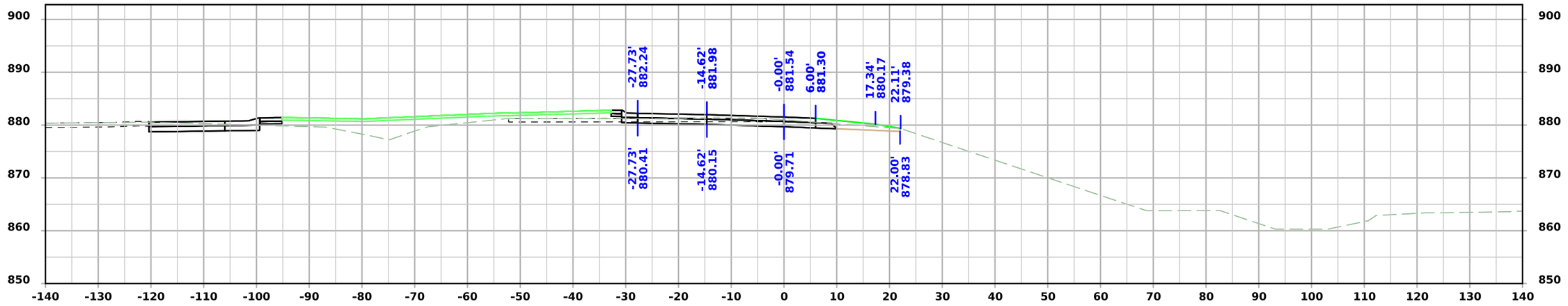
STA 24417+63.22

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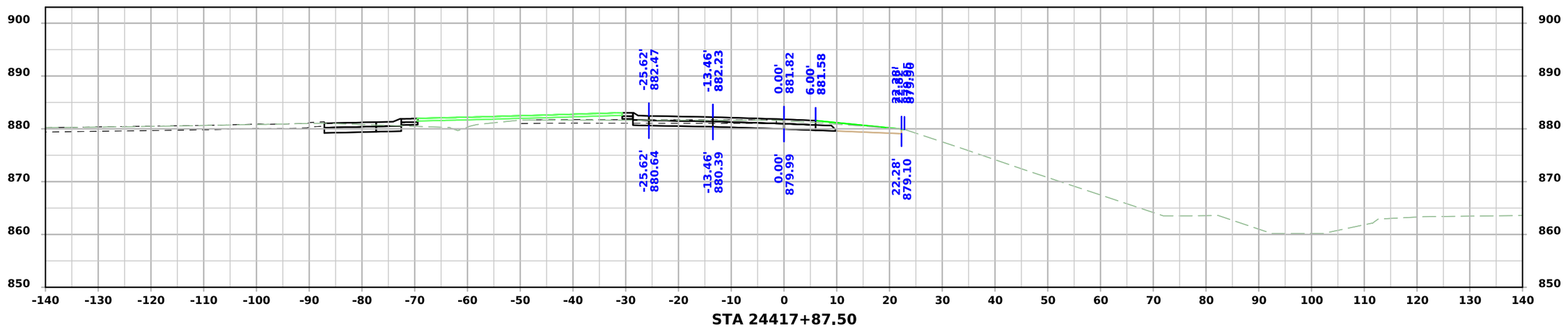
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V2

Hickman Road Ramp B-2 - Final Condition



STA 24418+00.00



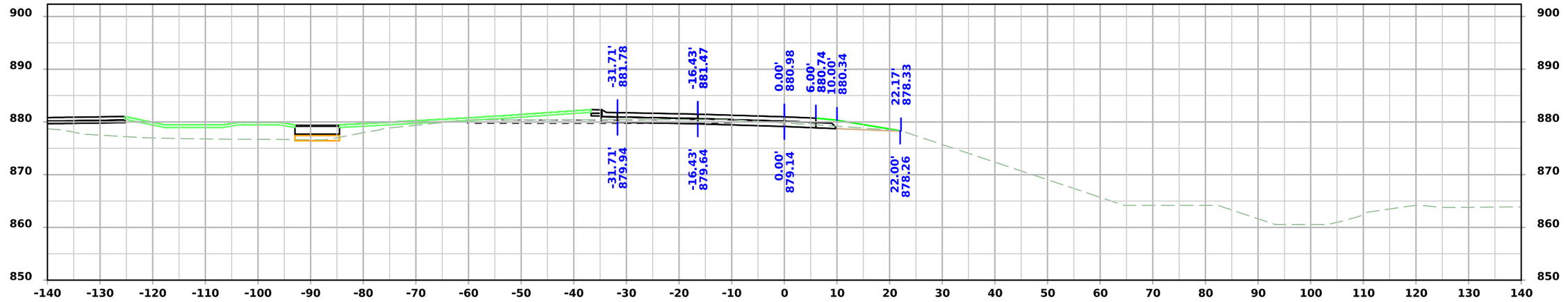
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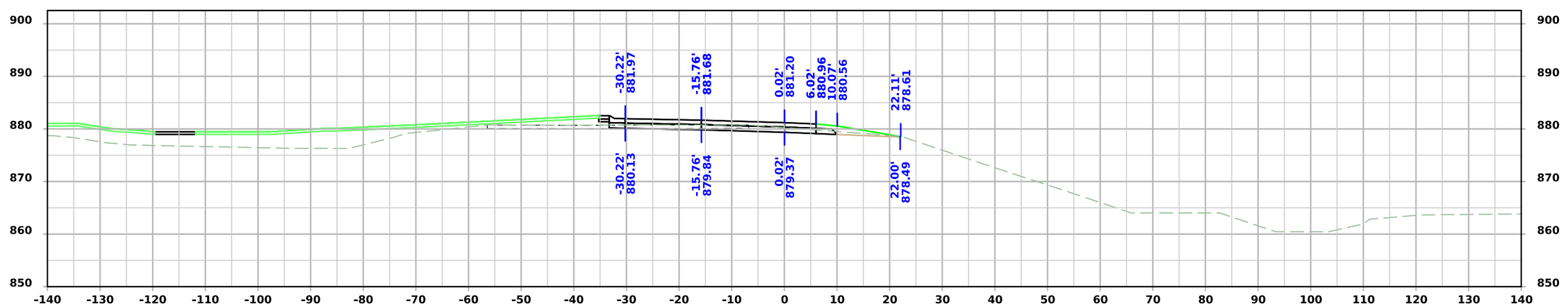
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V2

Hickman Road Ramp B-2 - Final Condition



STA 24418+25.00



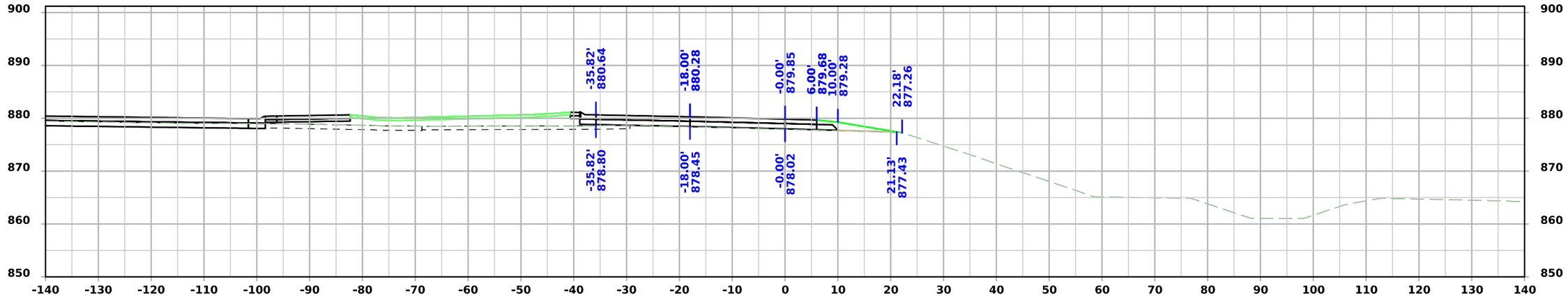
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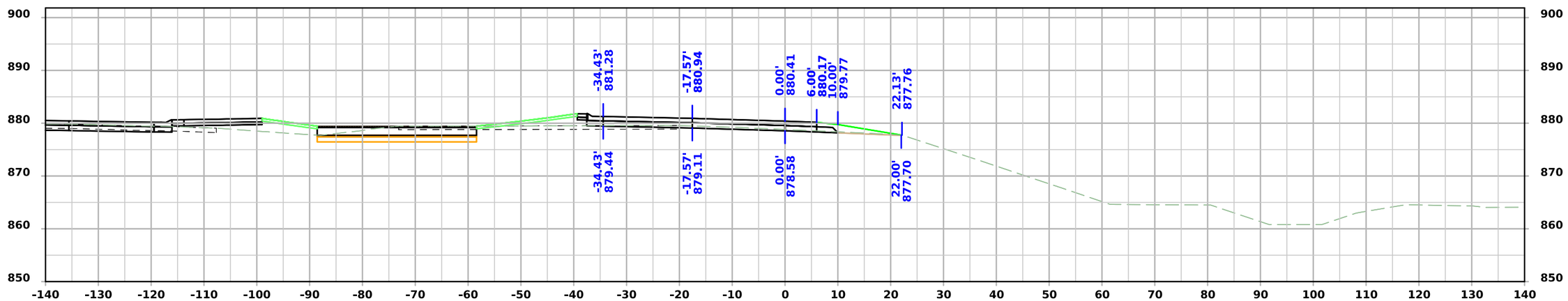
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V2

Hickman Road Ramp B-2 - Final Condition



STA 24418+75.00



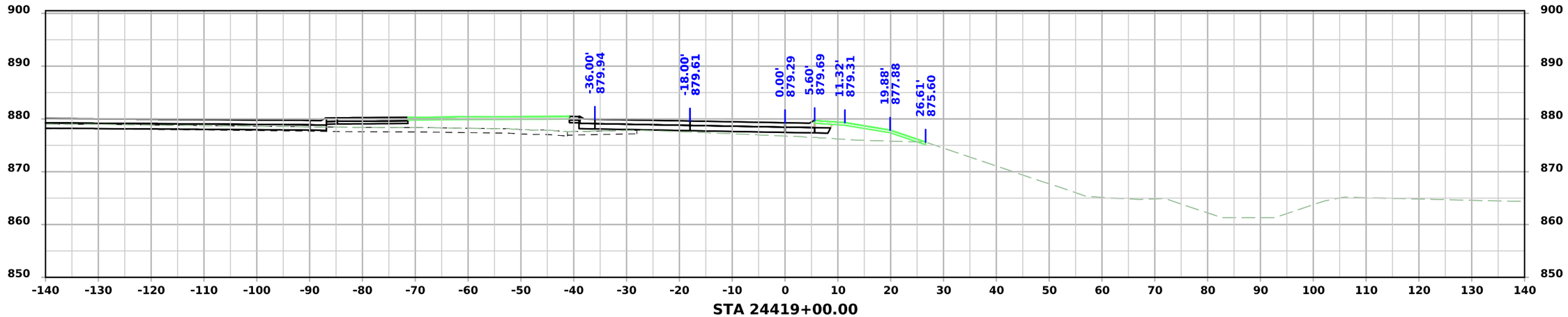
STA 24418+50.00

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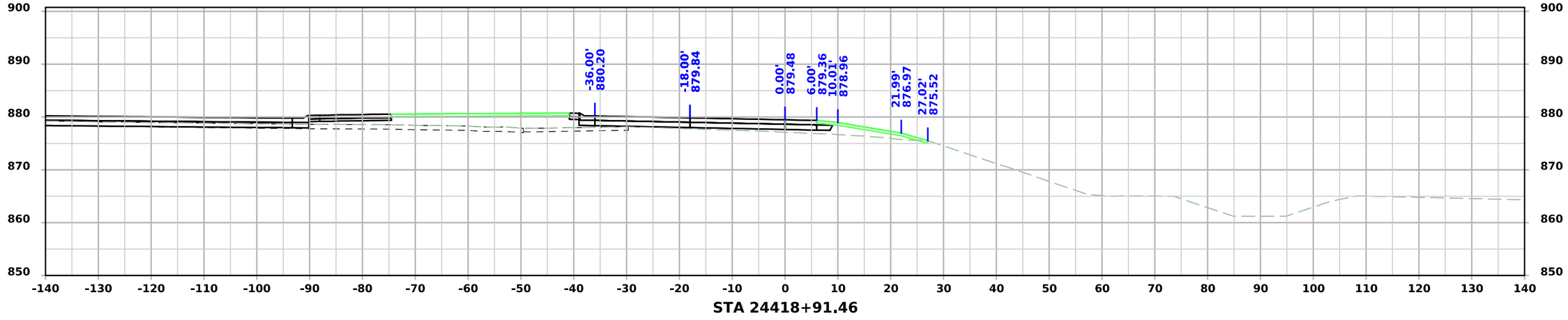
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V2

Hickman Road Ramp B-2 - Final Condition



STA 24419+00.00



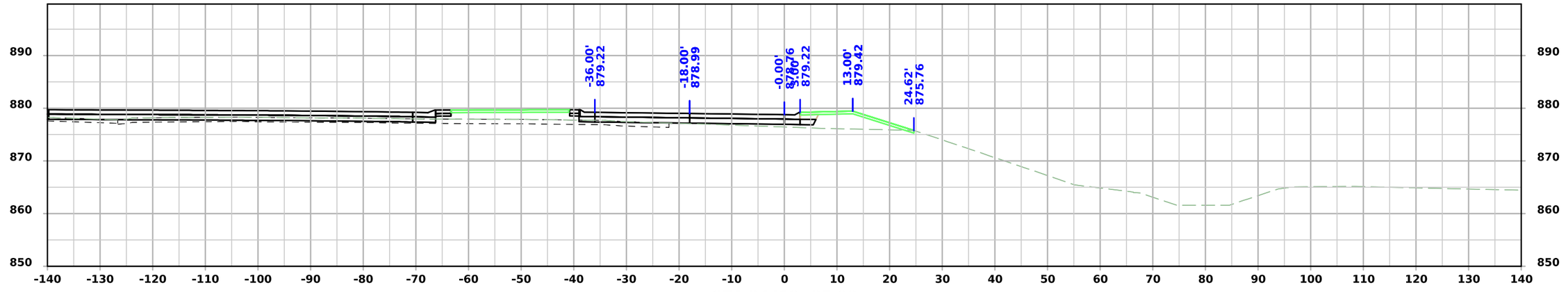
STA 24418+91.46

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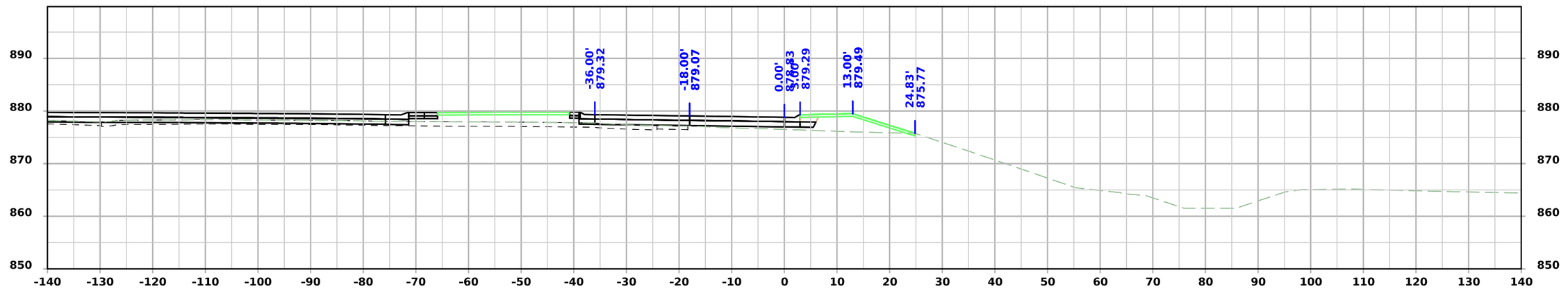
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V2

Hickman Road Ramp B-2 - Final Condition



STA 24419+25.00



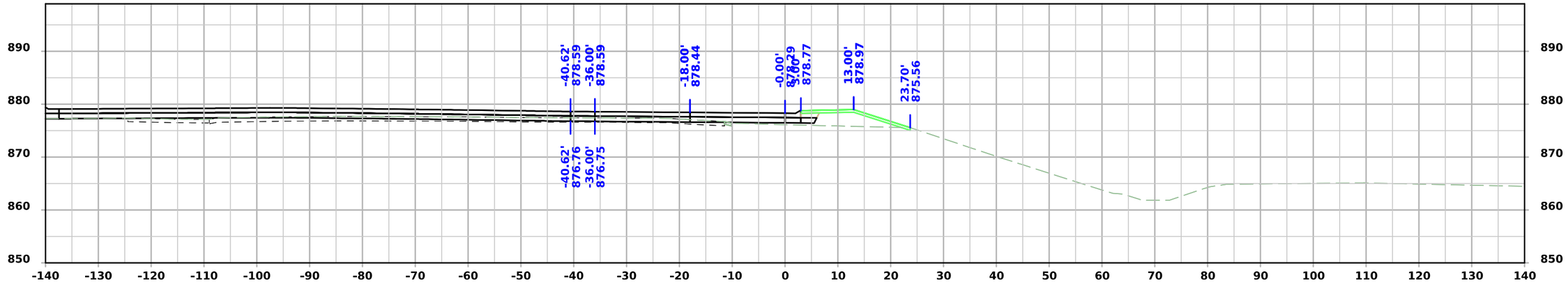
STA 24419+21.49

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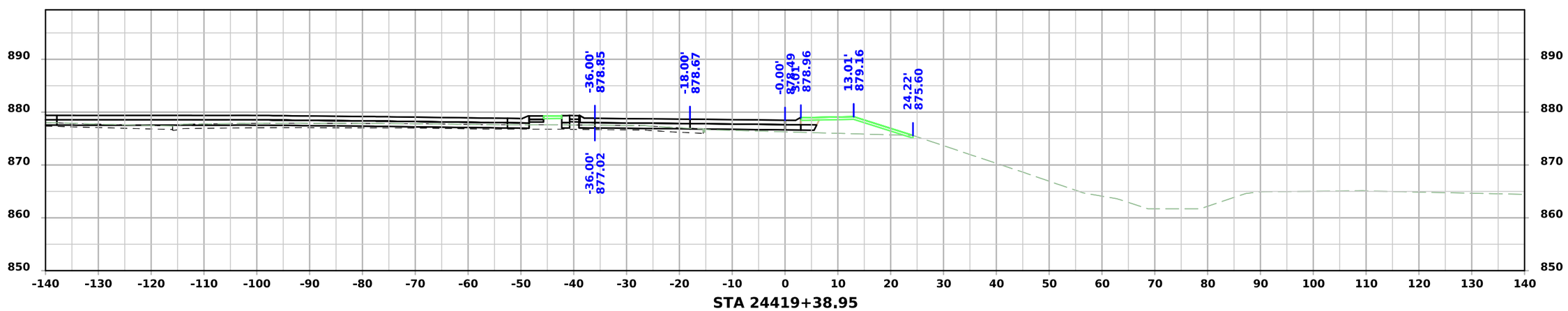
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V2

Hickman Road Ramp B-2 - Final Condition



STA 24419+50.00



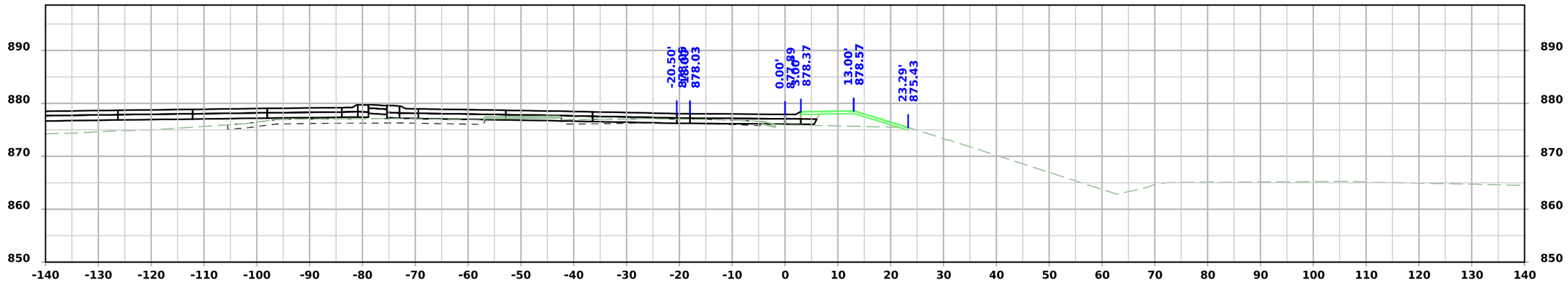
STA 24419+38.95

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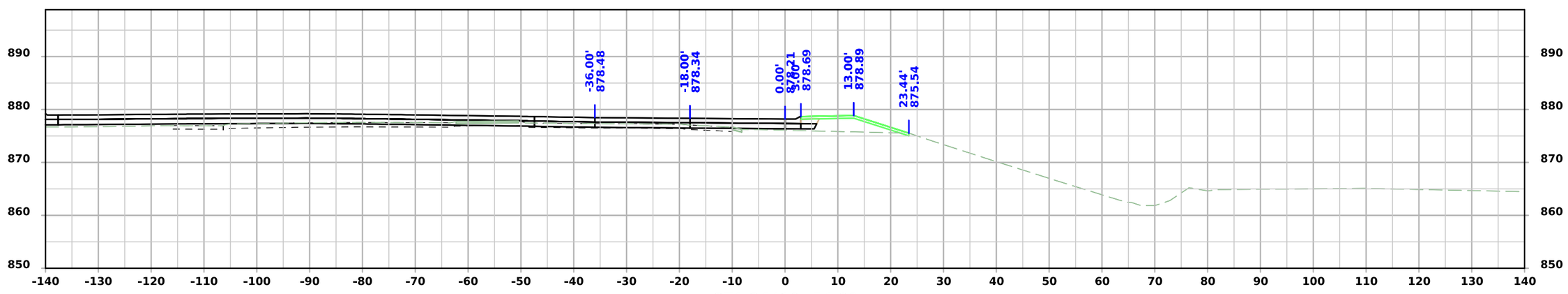
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V2

Hickman Road Ramp B-2 - Final Condition



STA 24419+75.00



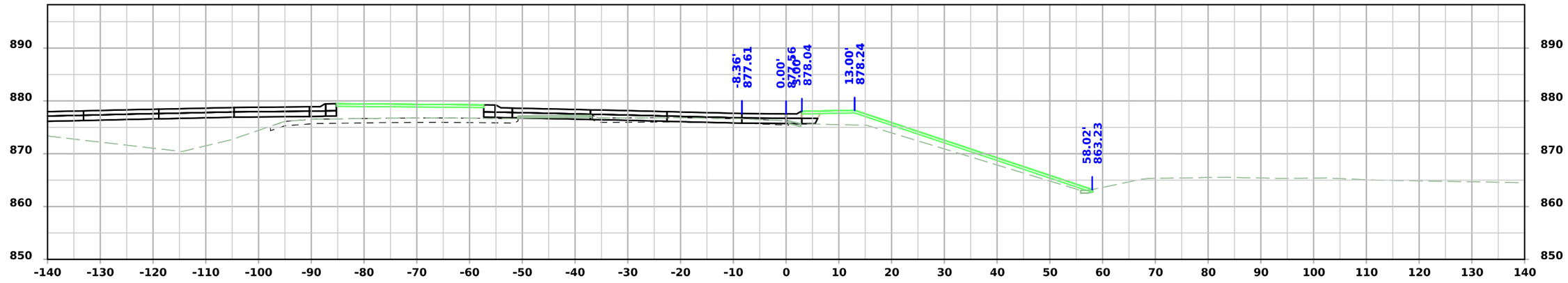
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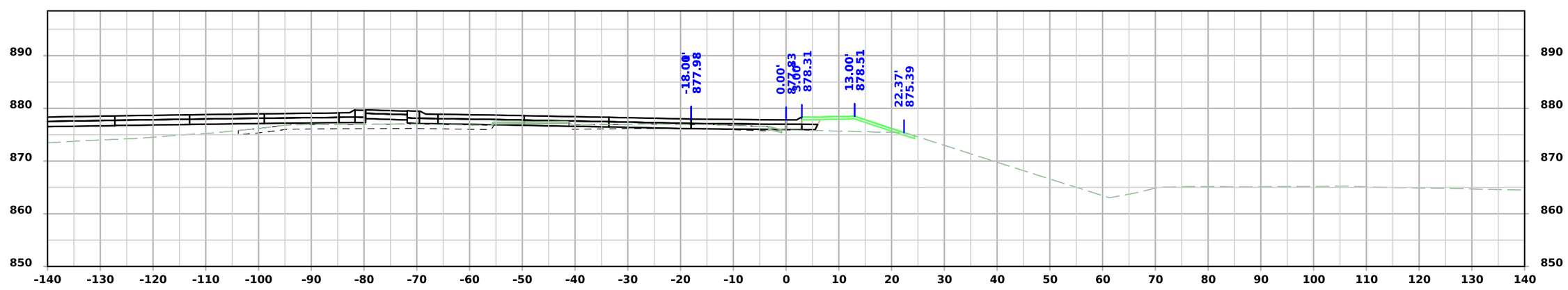
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V2

Hickman Road Ramp B-2 - Final Condition



STA 24420+00.00



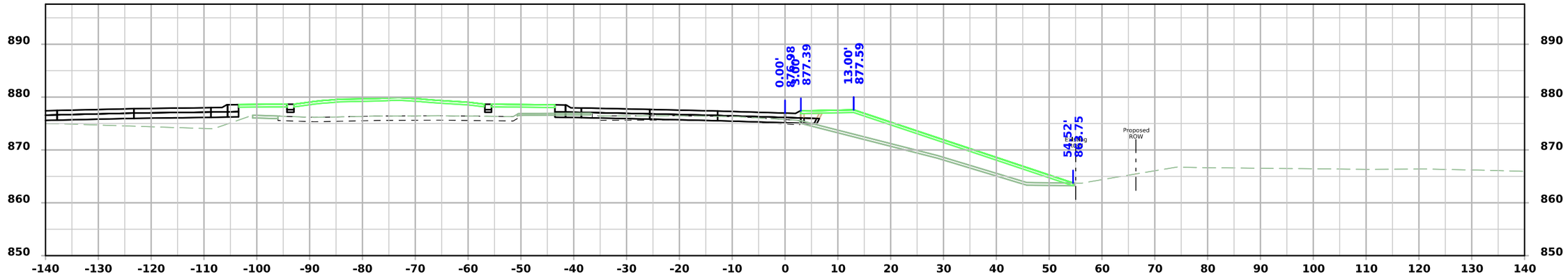
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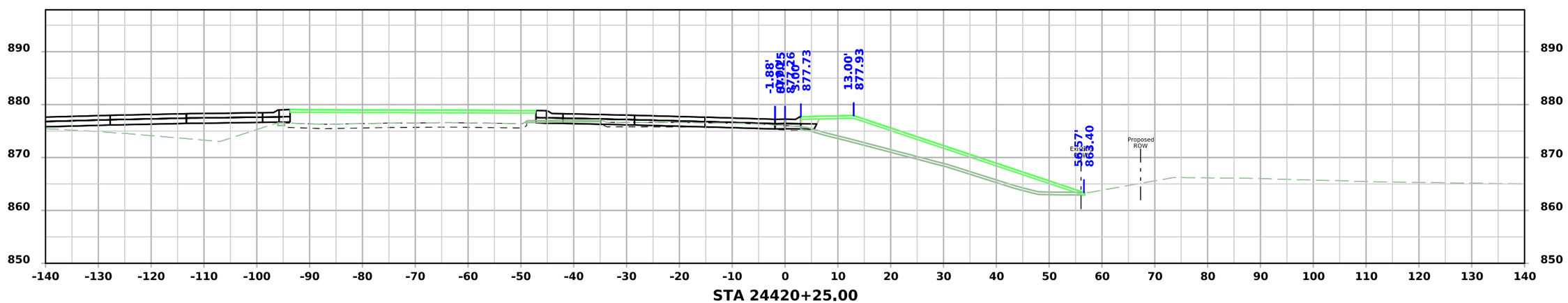
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V2

Hickman Road Ramp B-2 - Final Condition



STA 24420+48.18



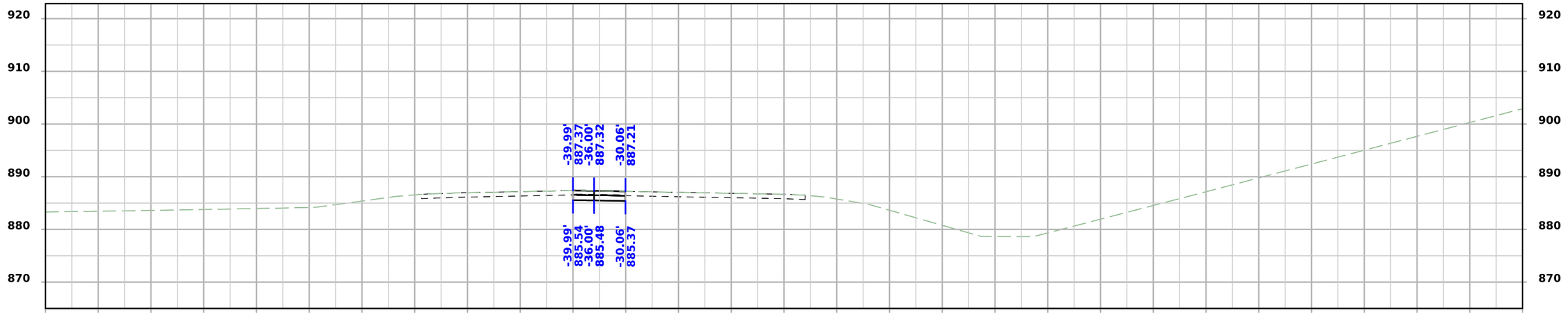
STA 24420+25.00

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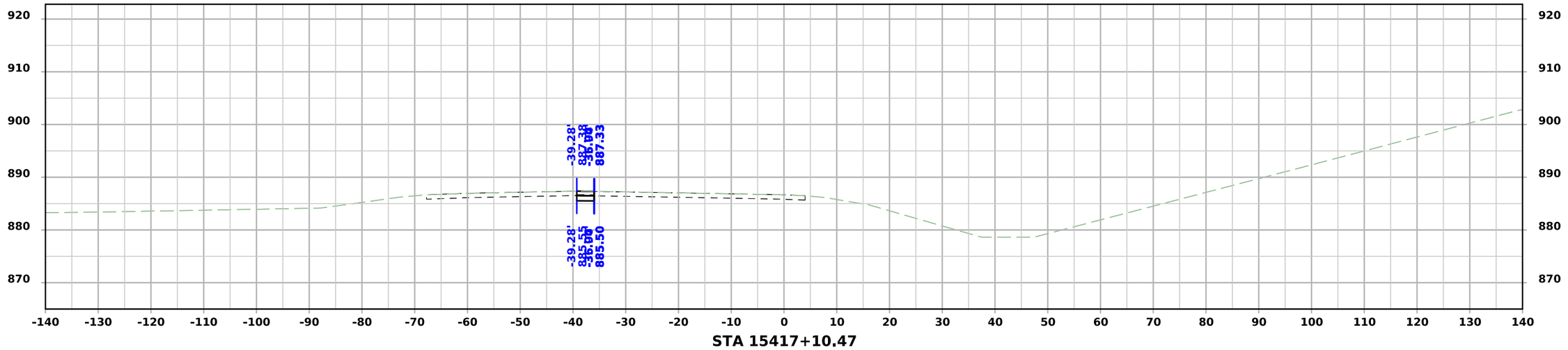
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V2

Hickman Road Ramp C-1 - Final Condition



STA 15417+11.46



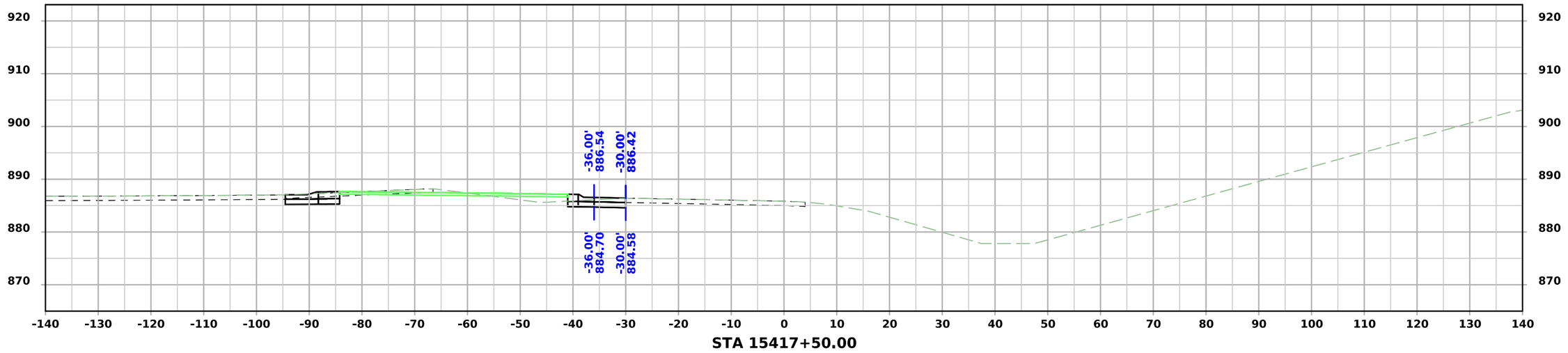
STA 15417+10.47

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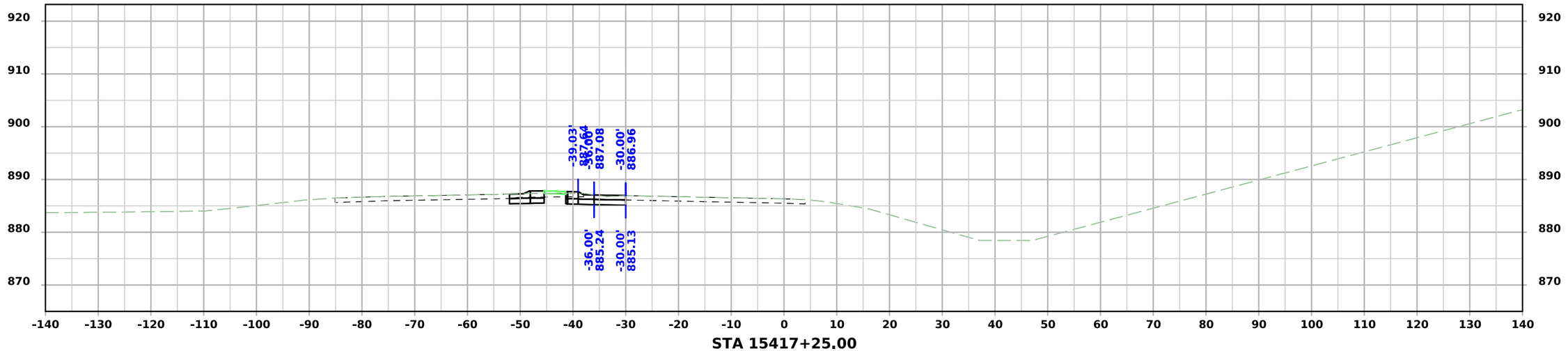
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V2

Hickman Road Ramp C-1 - Final Condition



STA 15417+50.00



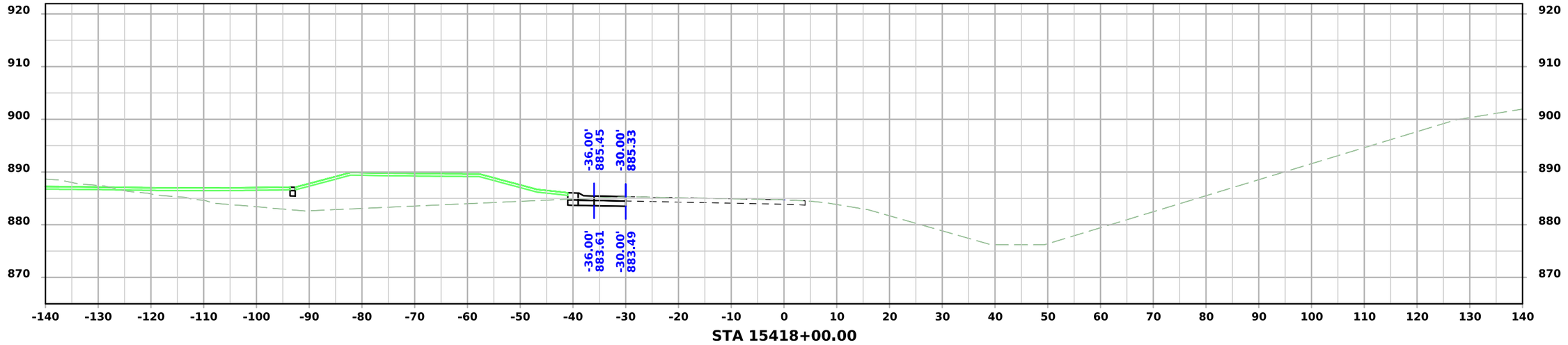
STA 15417+25.00

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER Y.501

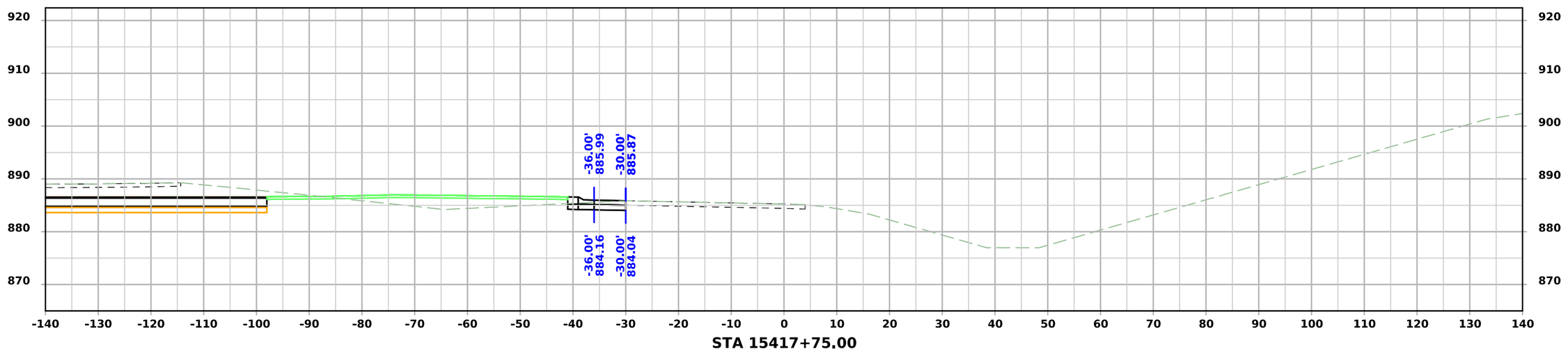
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V2

Hickman Road Ramp C-1 - Final Condition



STA 15418+00.00



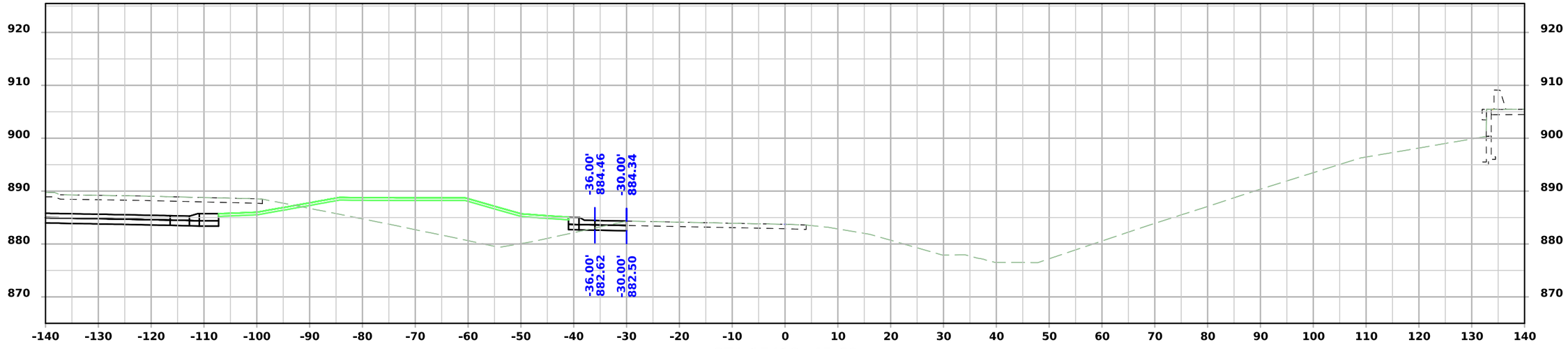
STA 15417+75.00

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER Y.502

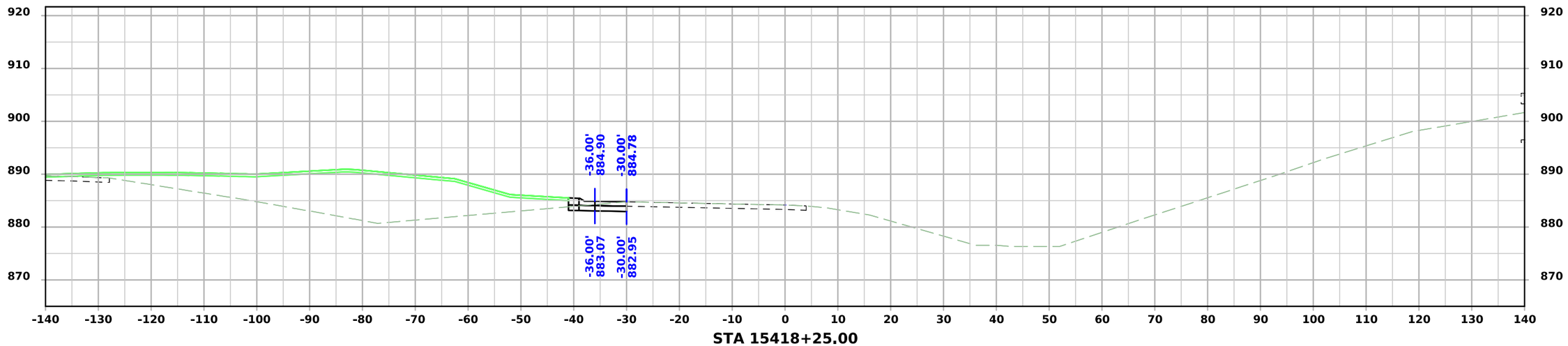
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V2

Hickman Road Ramp C-1 - Final Condition



STA 15418+45.60



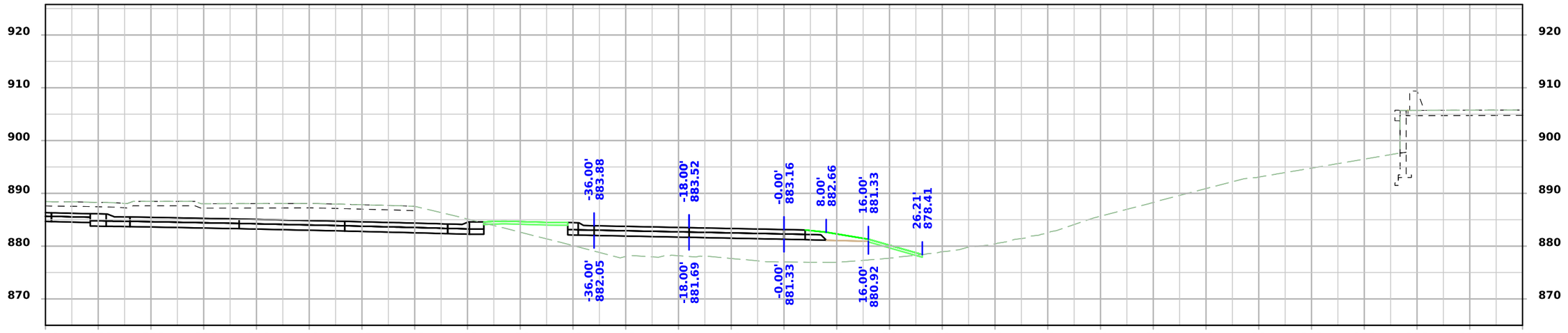
STA 15418+25.00

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER Y.503

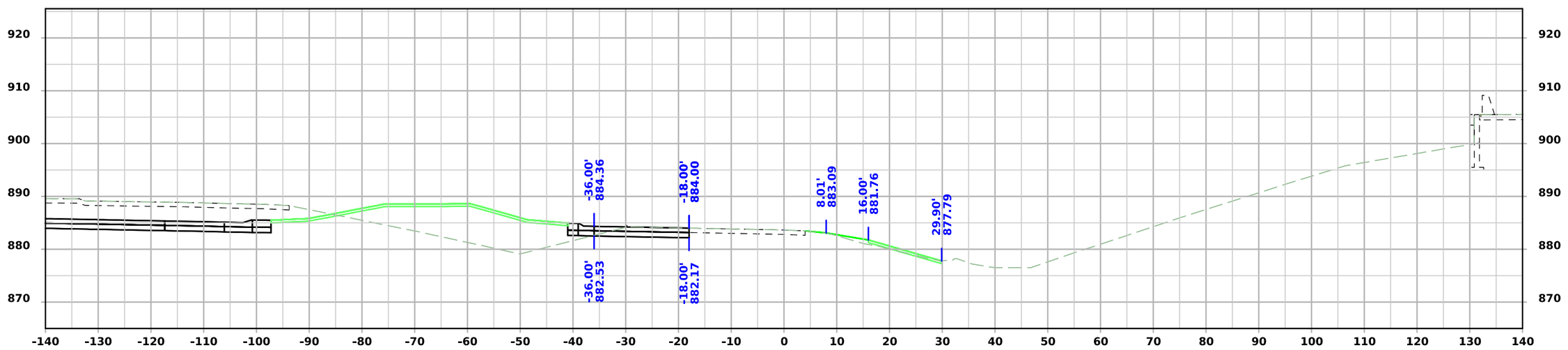
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V2

Hickman Road Ramp C-1 - Final Condition



STA 15418+75.00



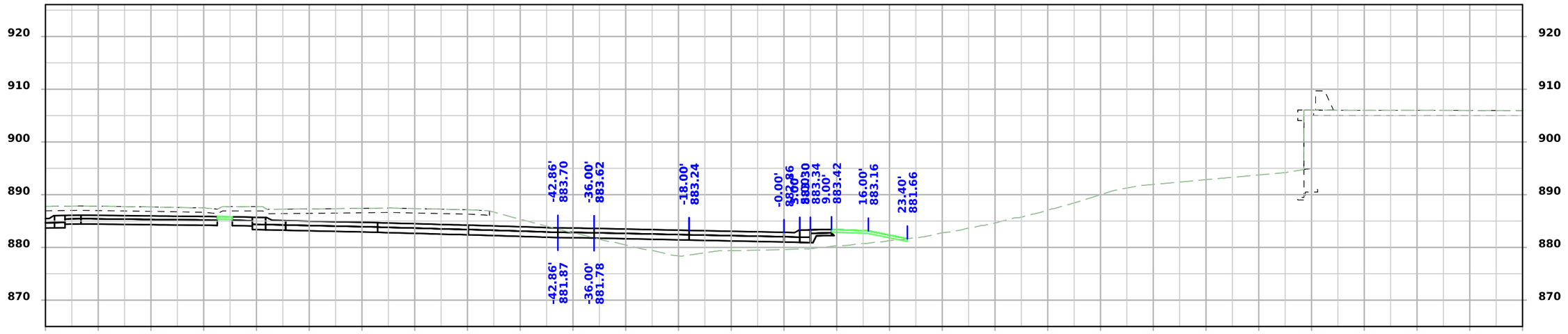
STA 15418+50.00

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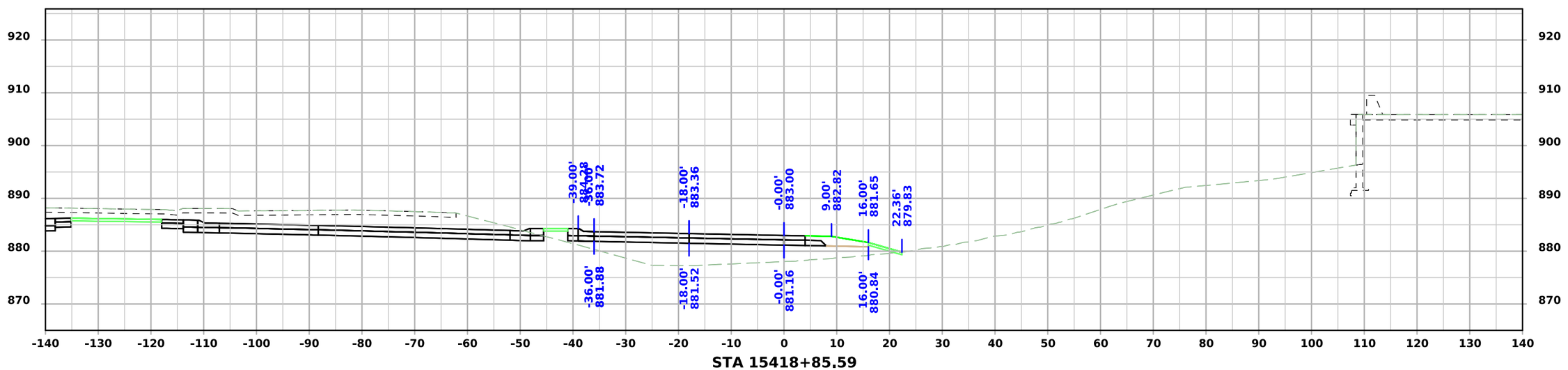
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V2

Hickman Road Ramp C-1 - Final Condition



STA 15418+95.60



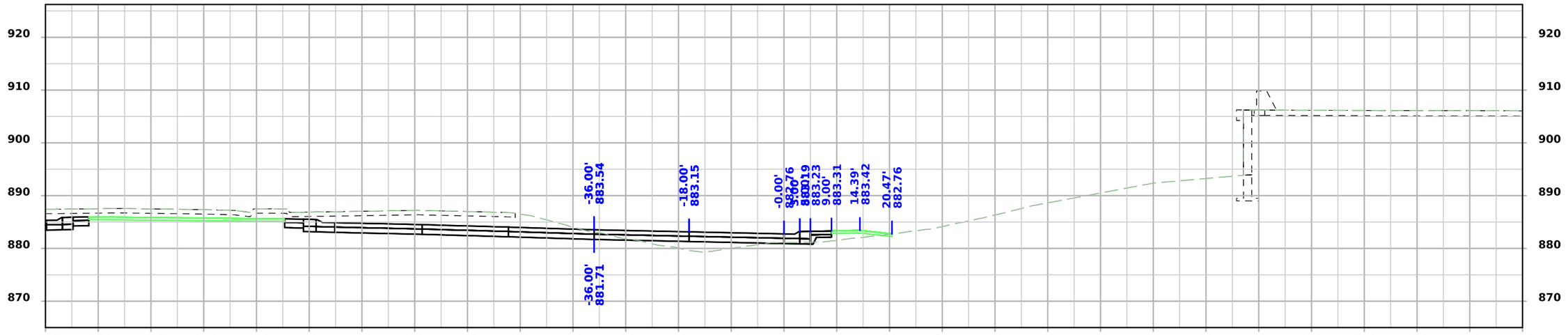
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FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER Y.505

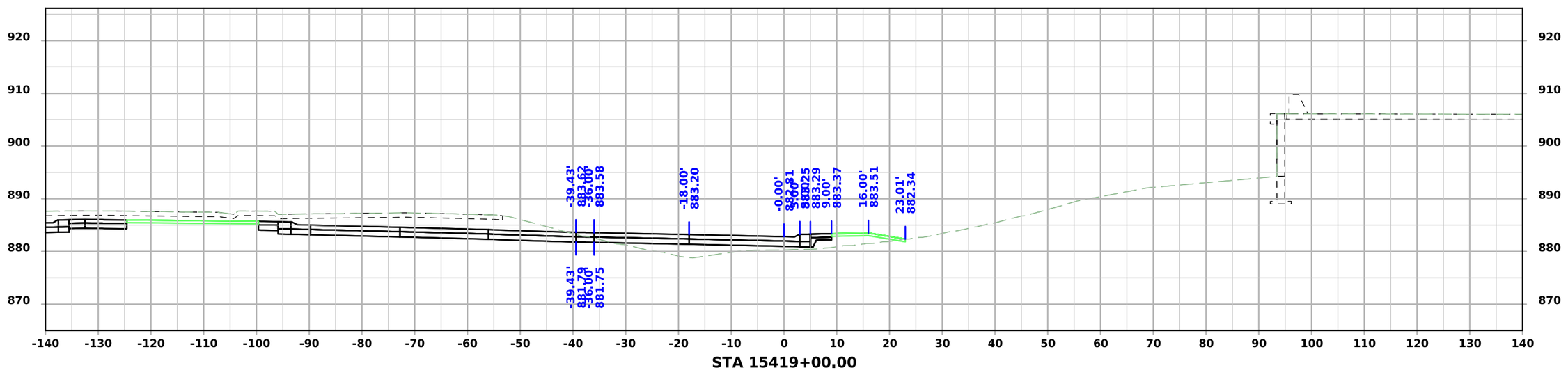
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V2

Hickman Road Ramp C-1 - Final Condition



STA 15419+04.82



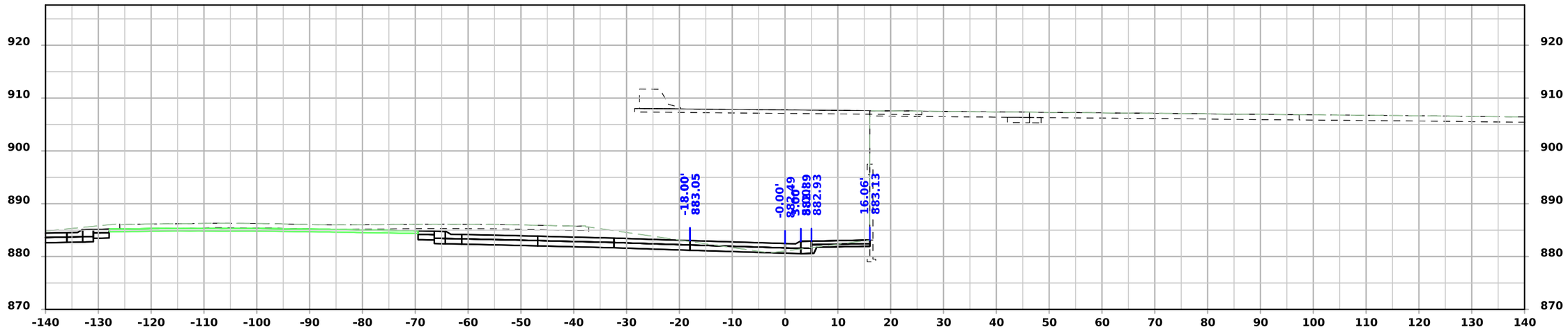
STA 15419+00.00

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER Y.506

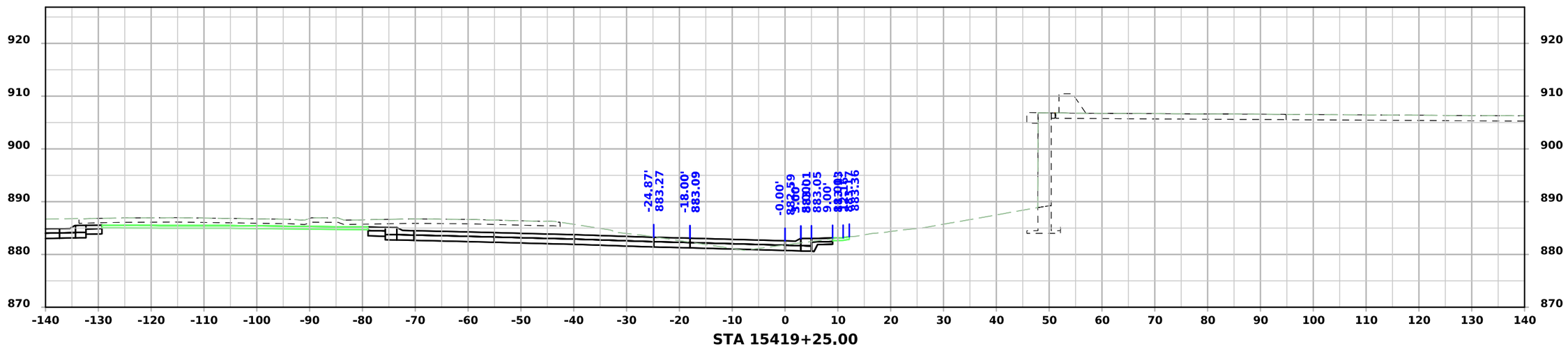
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V2

Hickman Road Ramp C-1 - Final Condition



STA 15419+45.03



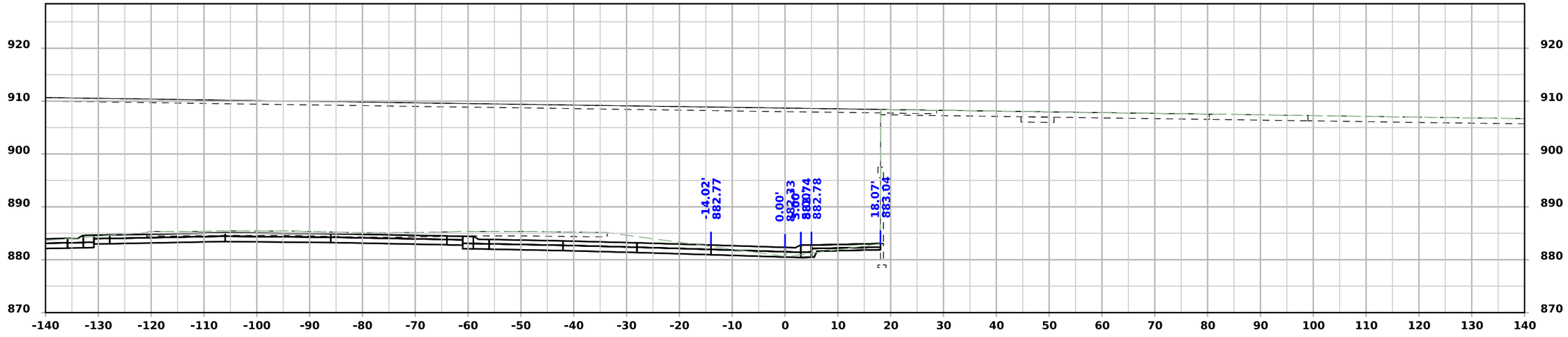
STA 15419+25.00

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER Y.507

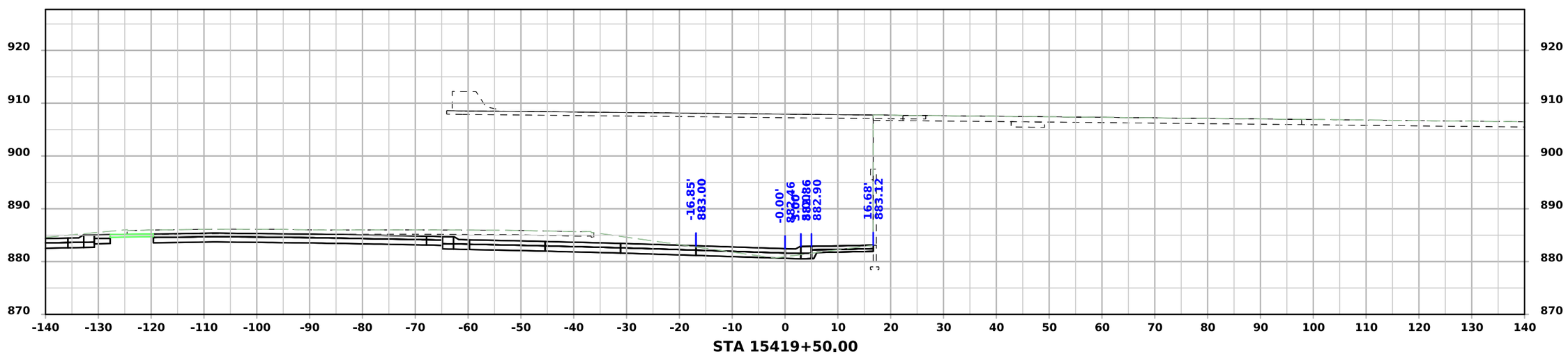
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V2

Hickman Road Ramp C-1 - Final Condition



STA 15419+75.00



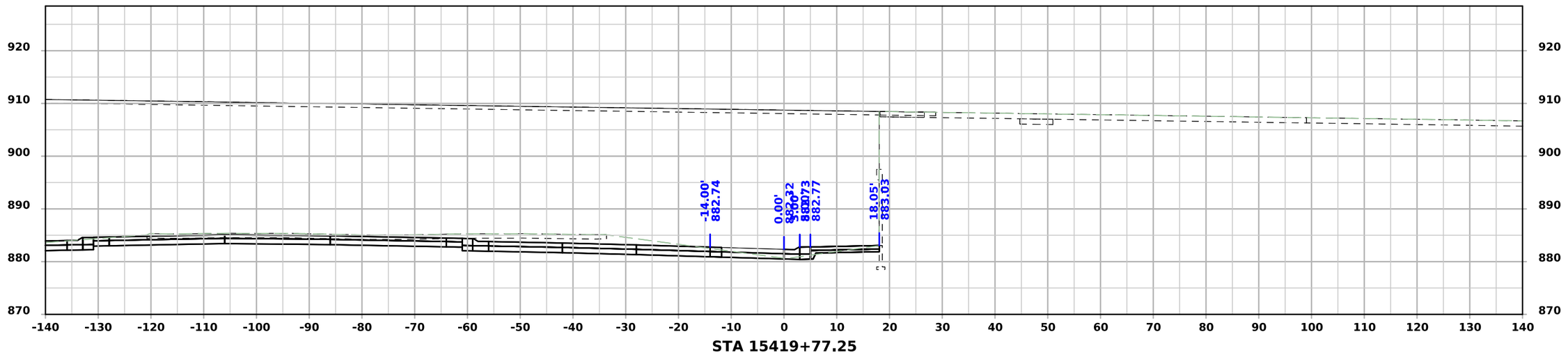
STA 15419+50.00

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER Y.508	

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V2

Hickman Road Ramp C-1 - Final Condition

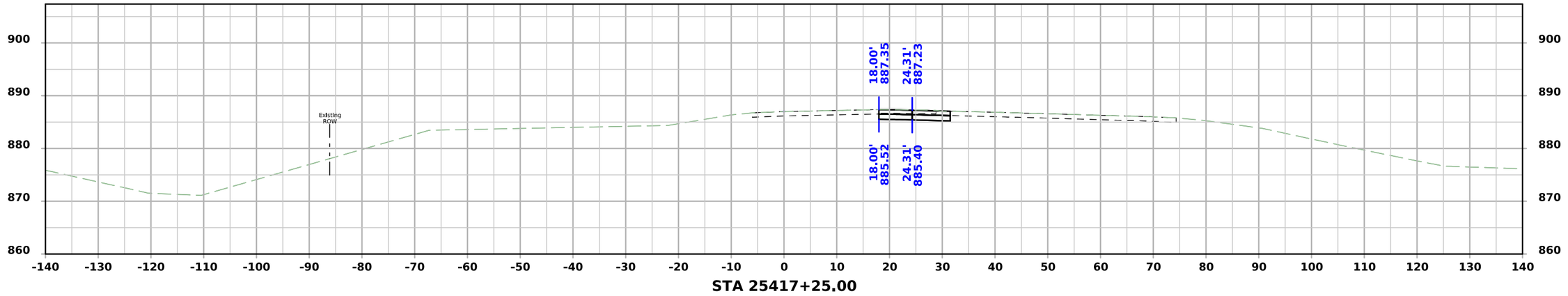


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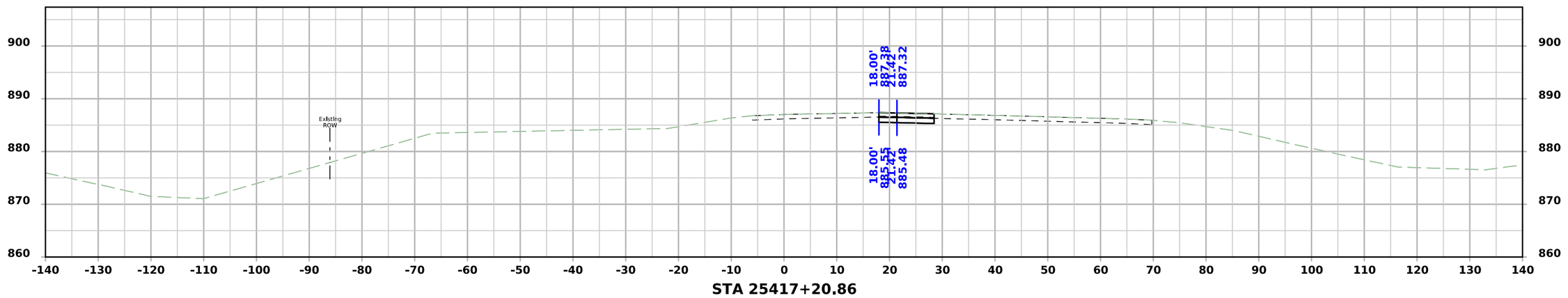
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V2

Hickman Road Ramp C-2 - Final Condition



STA 25417+25.00



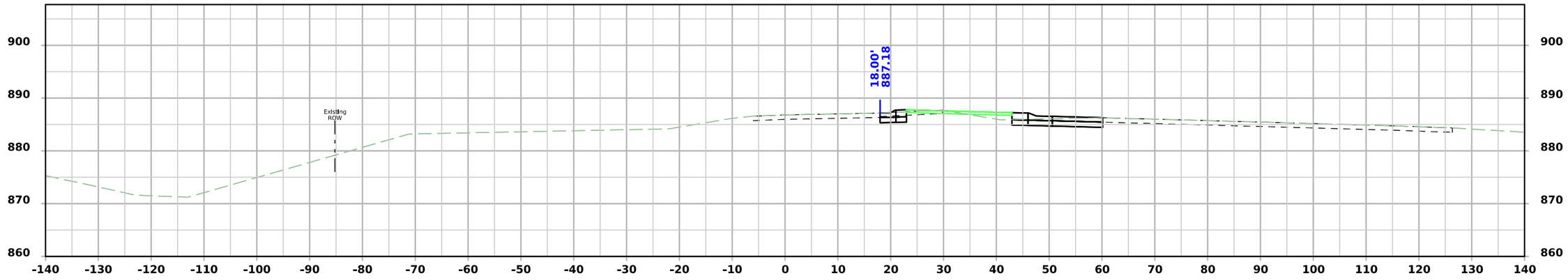
STA 25417+20.86

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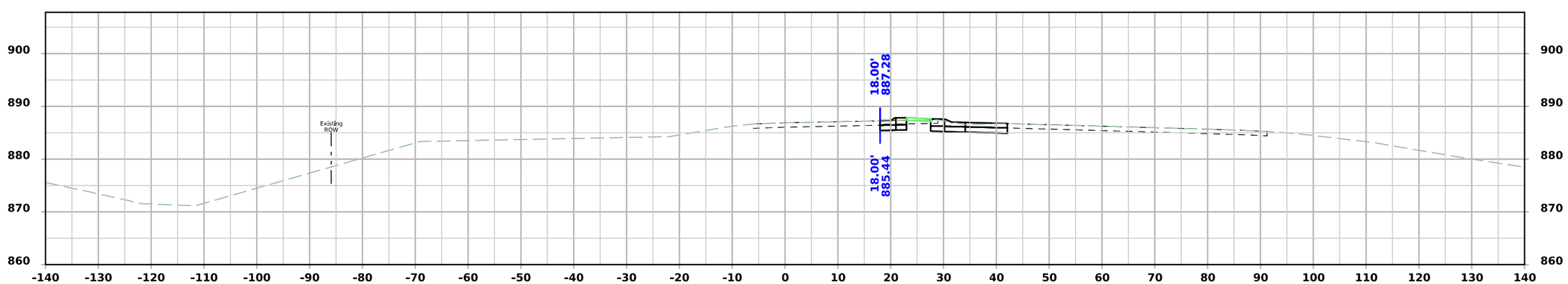
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V2

Hickman Road Ramp C-2 - Final Condition



STA 25417+50.00



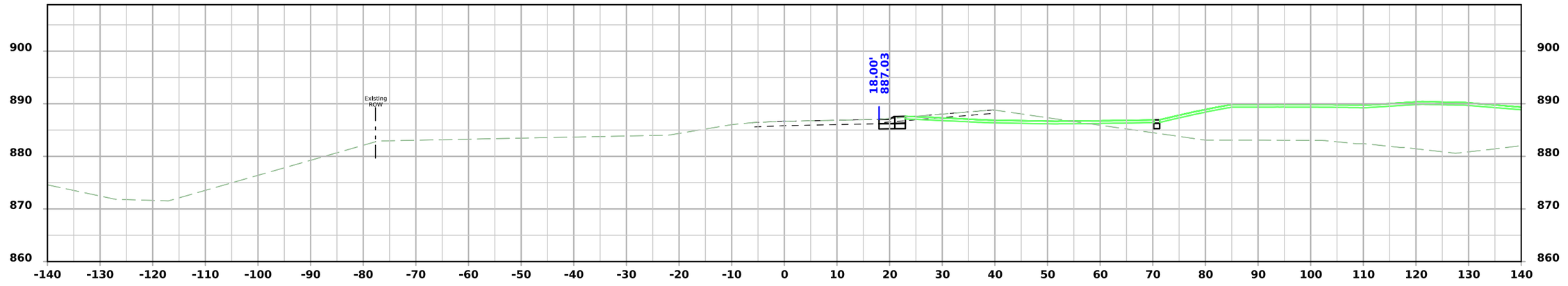
STA 25417+36.46

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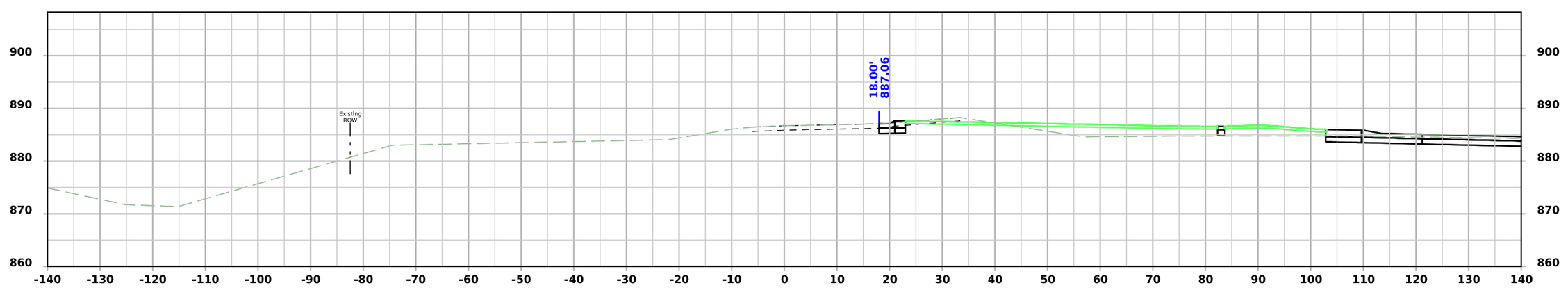
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V2

Hickman Road Ramp C-2 - Final Condition



STA 25418+00.00



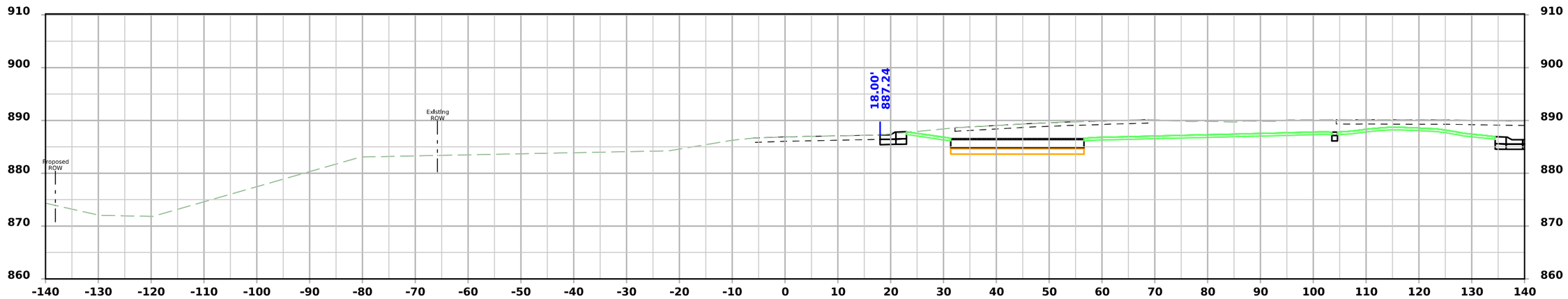
STA 25417+75.00

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER Y.602

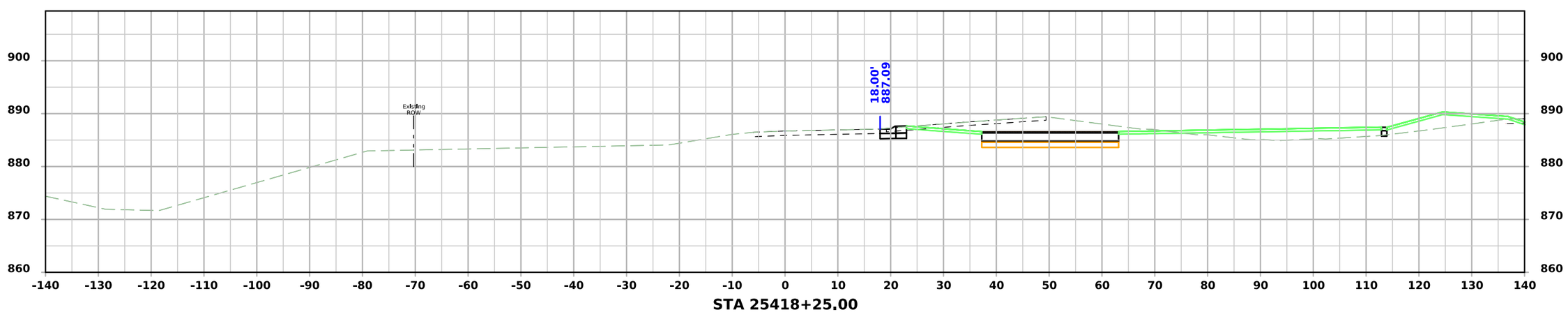
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V2

Hickman Road Ramp C-2 - Final Condition



STA 25418+50.00



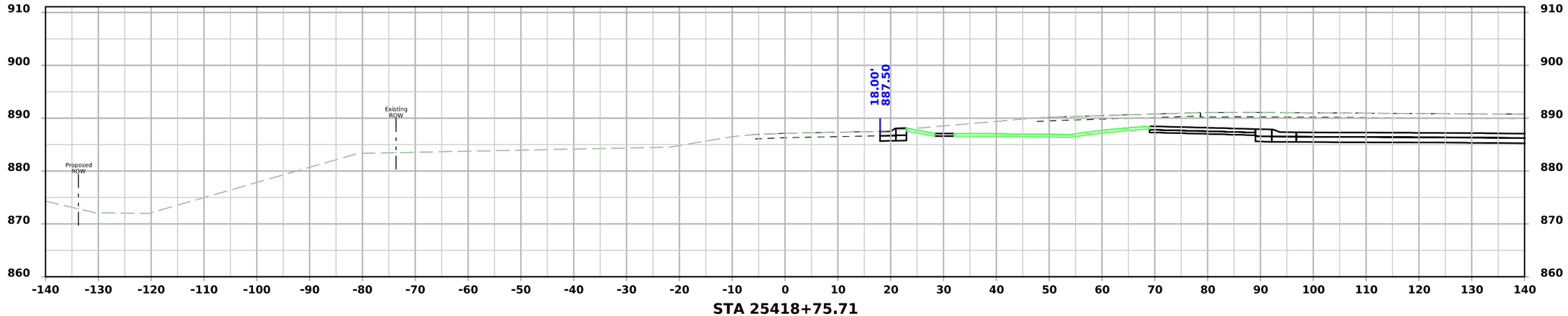
STA 25418+25.00

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER Y.603

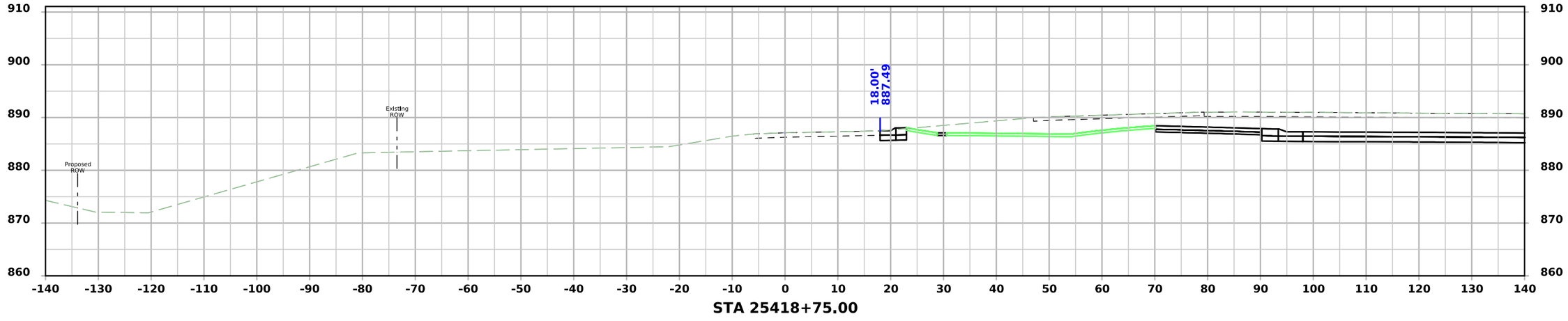
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V2

Hickman Road Ramp C-2 - Final Condition



STA 25418+75.71



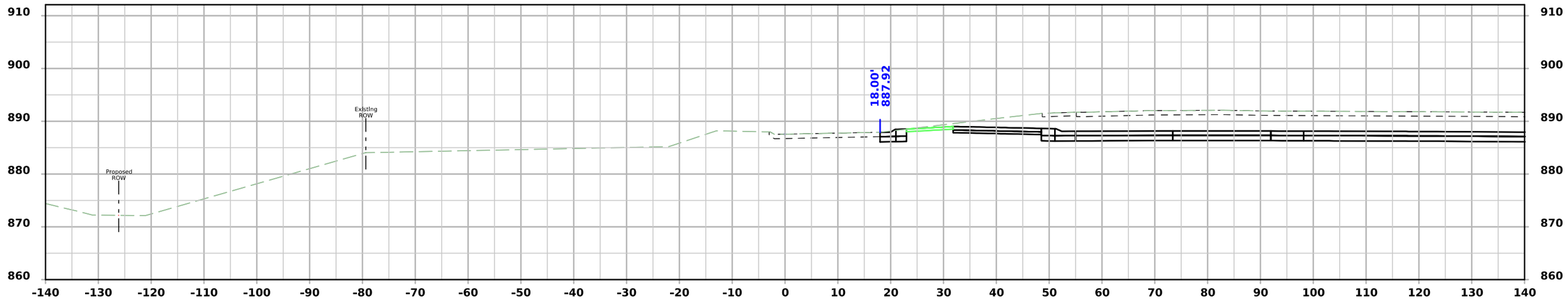
STA 25418+75.00

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER Y.604

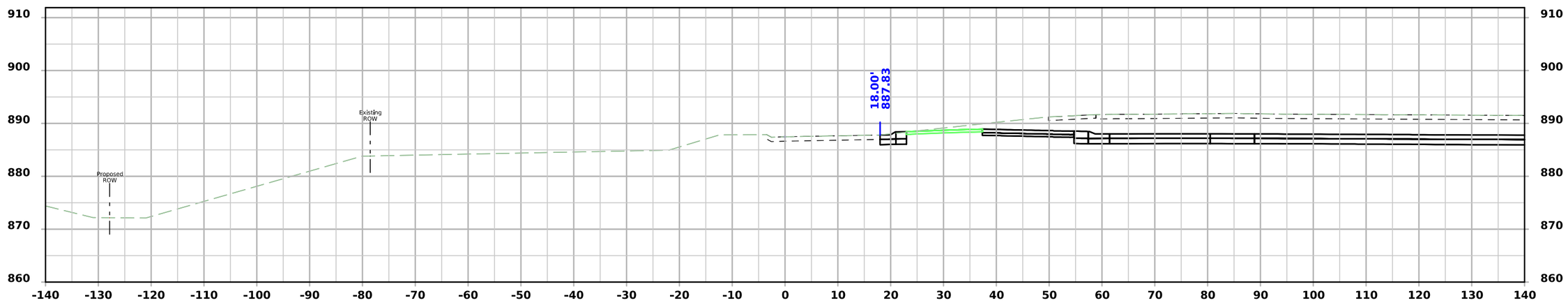
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V2

Hickman Road Ramp C-2 - Final Condition



STA 25419+05.71



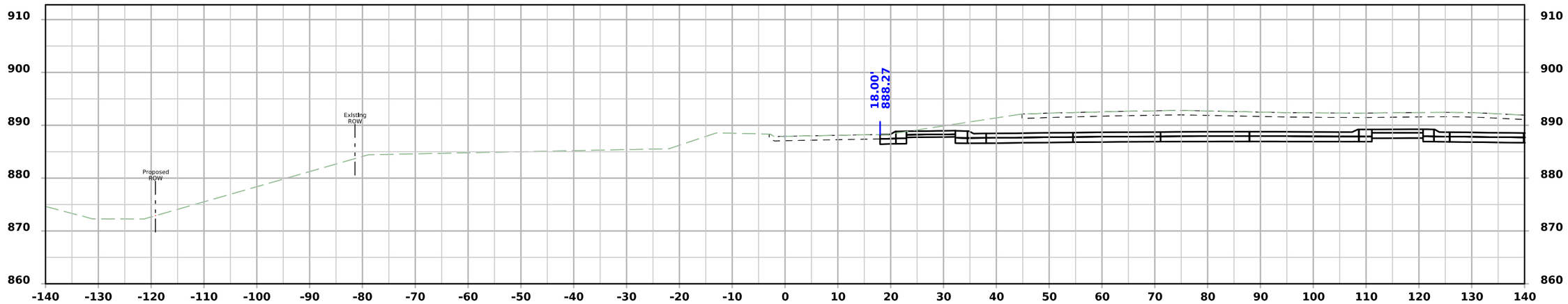
STA 25419+00.00

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER Y.605

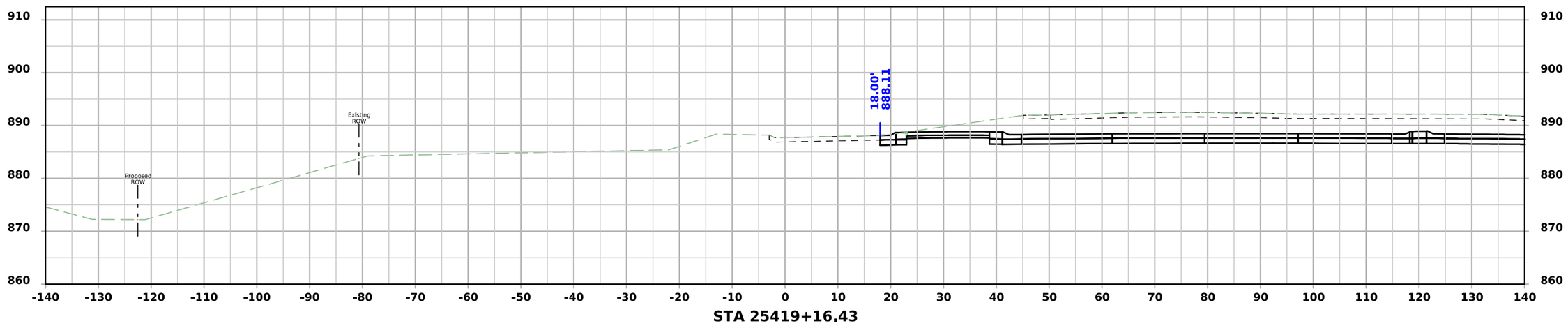
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V2

Hickman Road Ramp C-2 - Final Condition



STA 25419+25.00



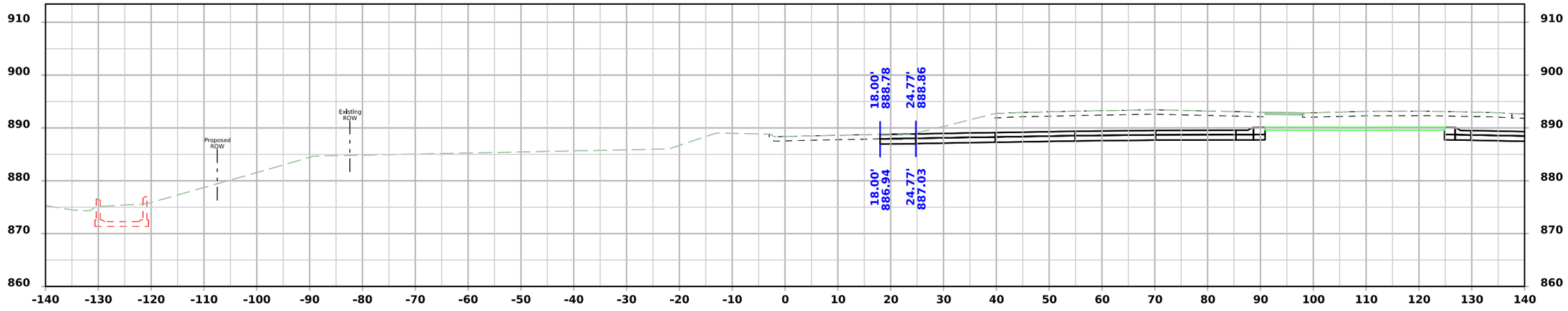
STA 25419+16.43

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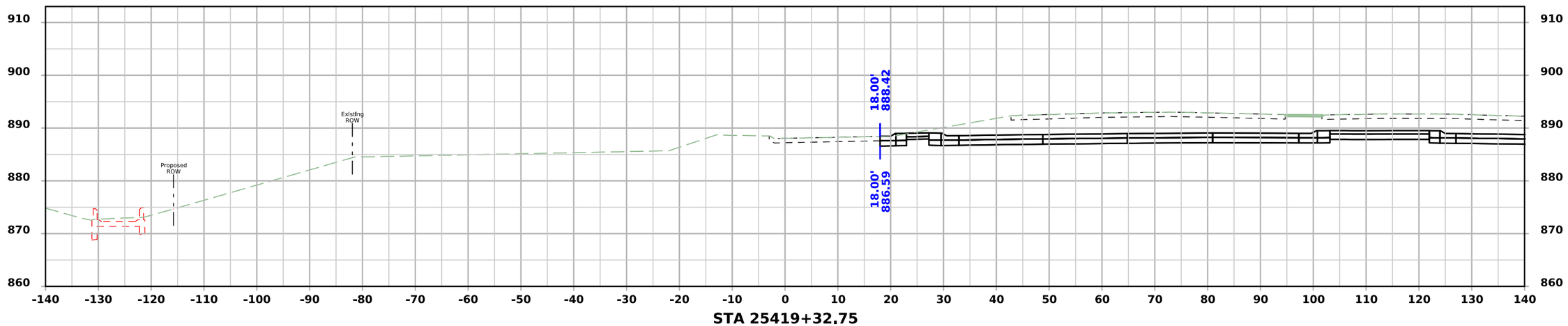
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V2

Hickman Road Ramp C-2 - Final Condition



STA 25419+48.34



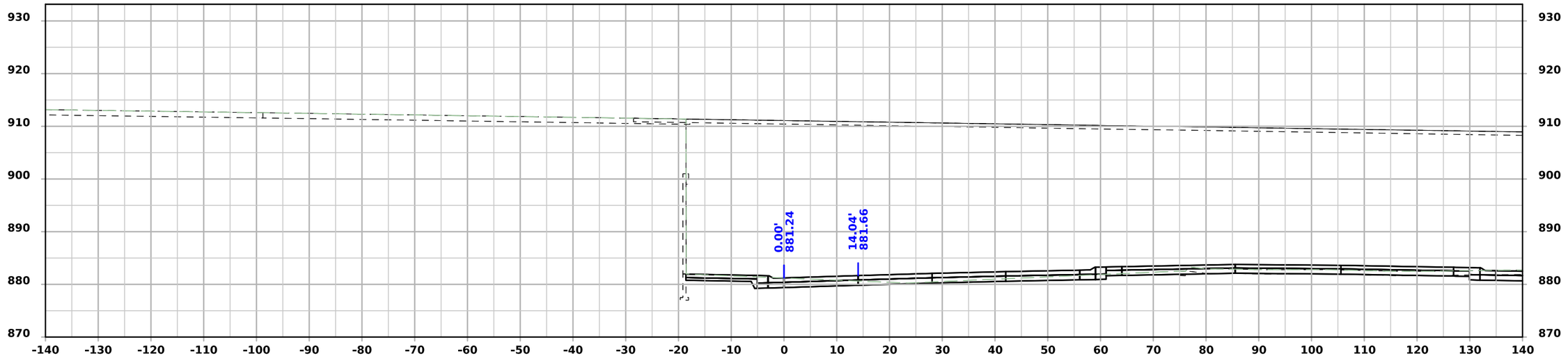
STA 25419+32.75

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER Y.607

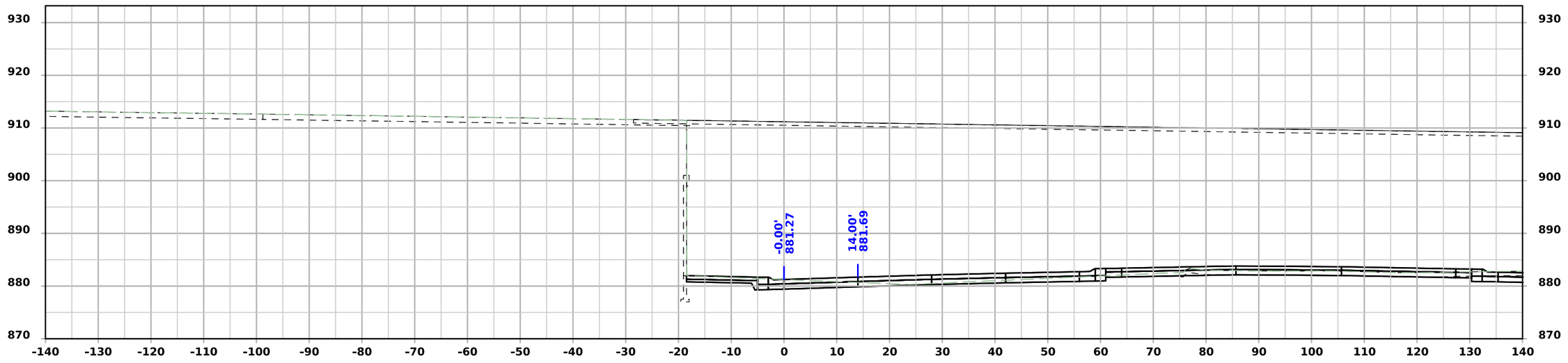
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V2

Hickman Road Ramp D-1 - Final Condition



STA 16419+25.00



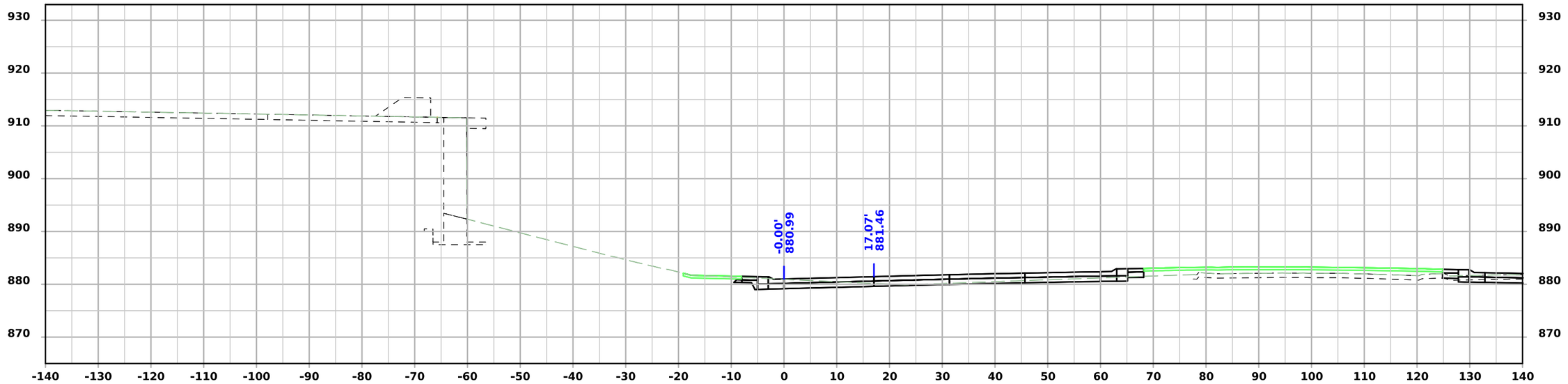
STA 16419+21.65

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER Y.700

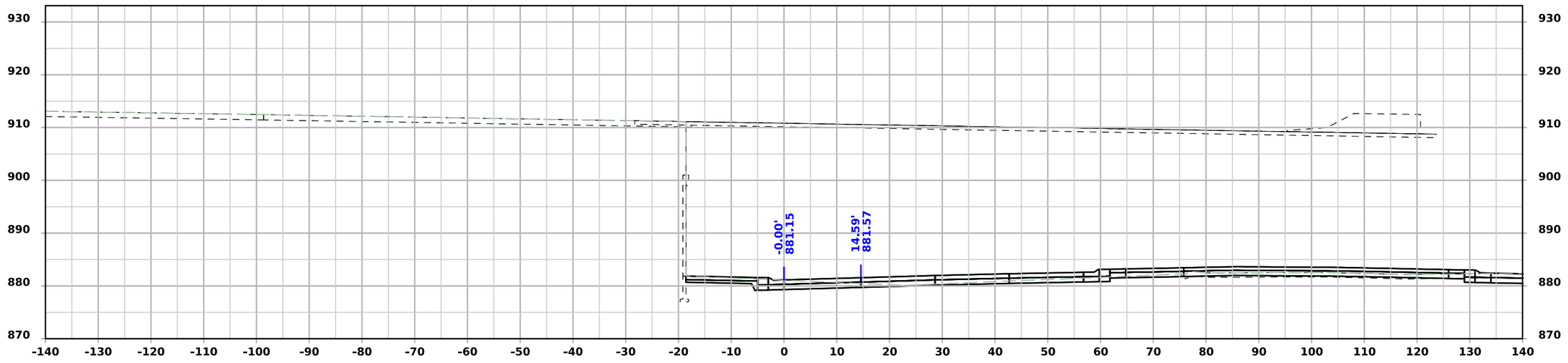
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V2

Hickman Road Ramp D-1 - Final Condition



STA 16419+50.00



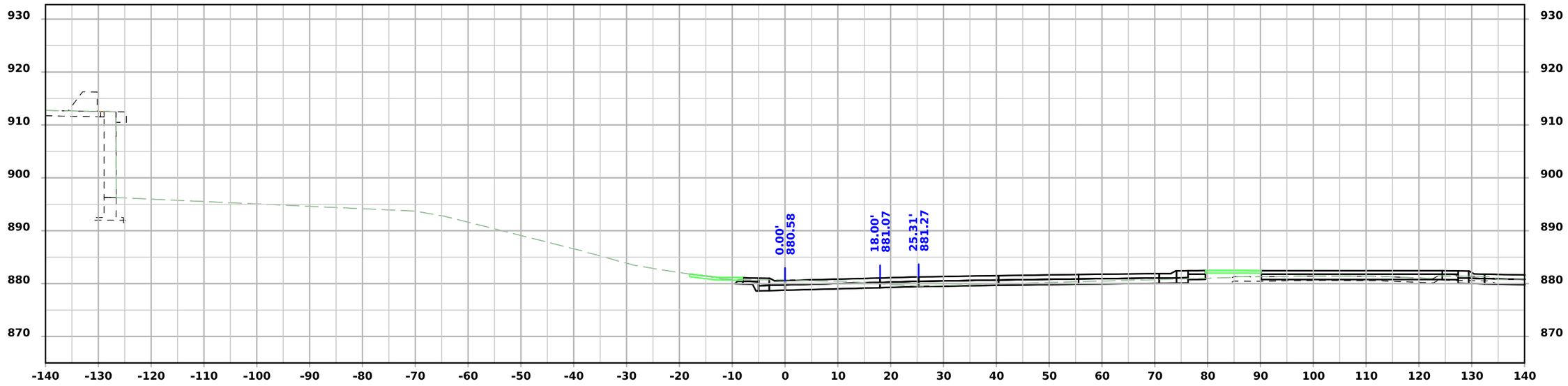
STA 16419+34.10

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER Y.701	

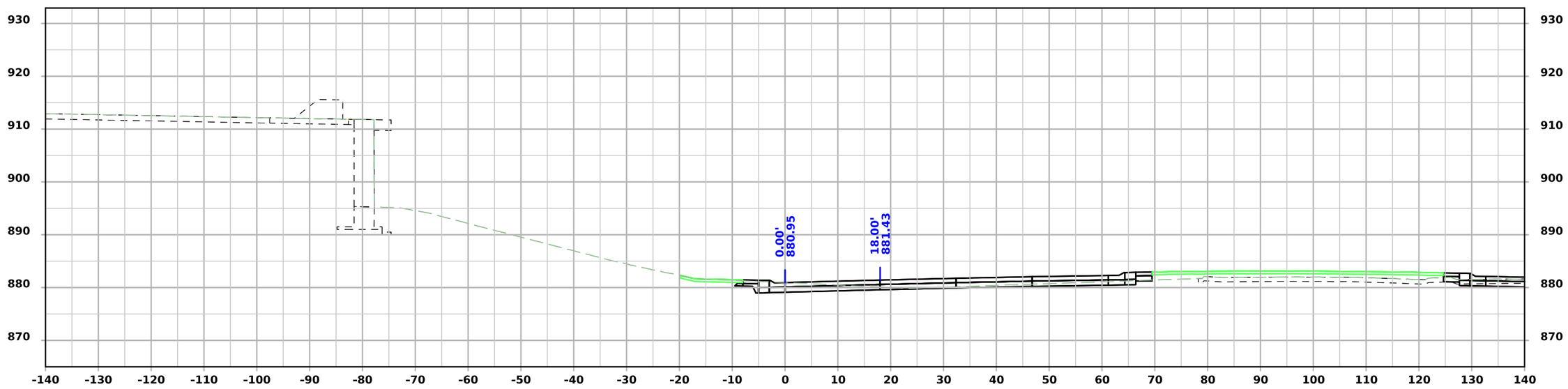
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V2

Hickman Road Ramp D-1 - Final Condition



STA 16419+75.00



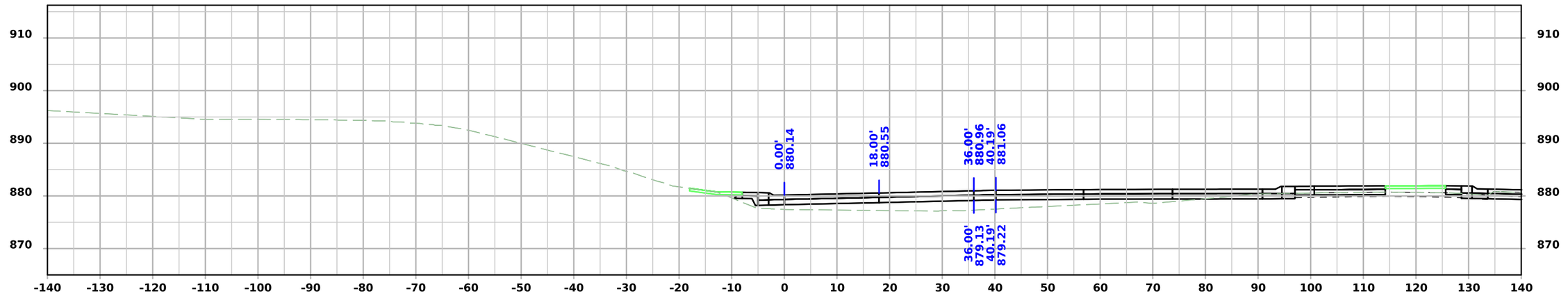
STA 16419+53.94

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER Y.702

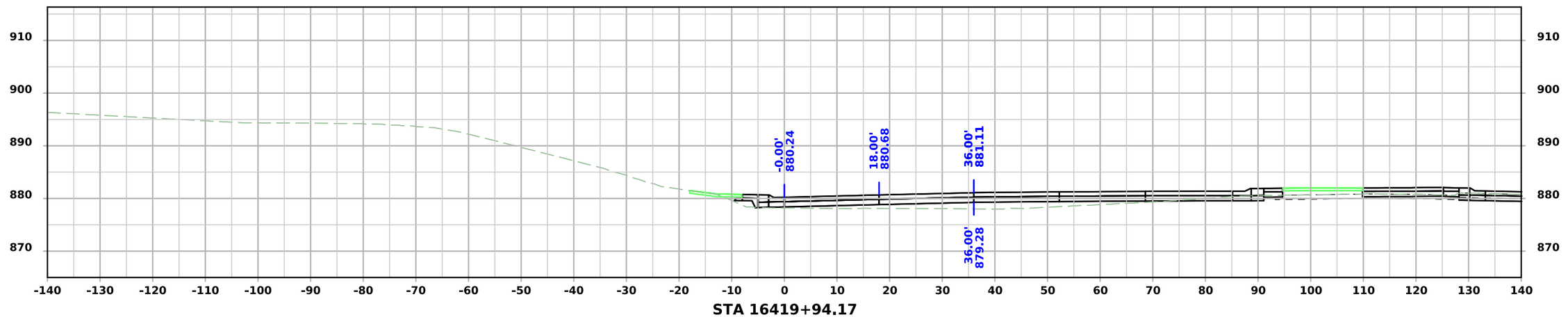
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V2

Hickman Road Ramp D-1 - Final Condition



STA 16420+00.00



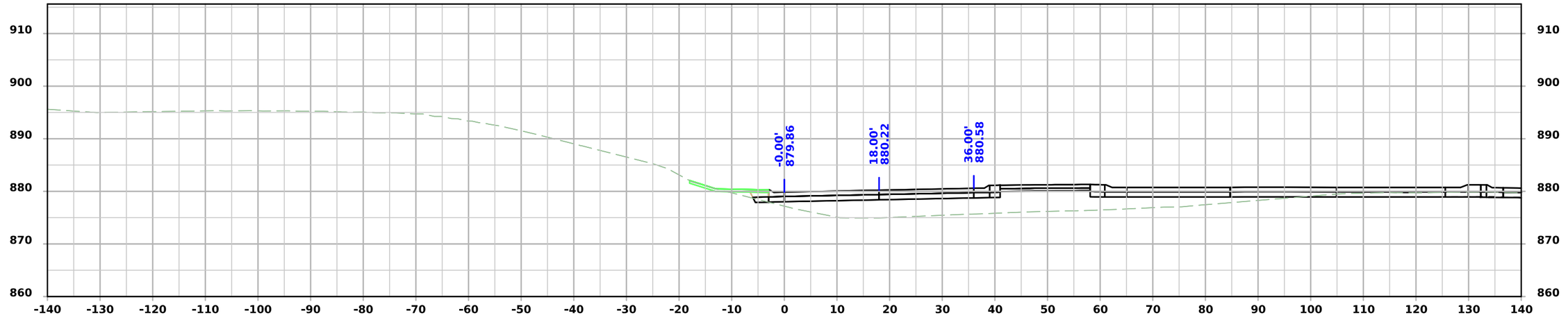
STA 16419+94.17

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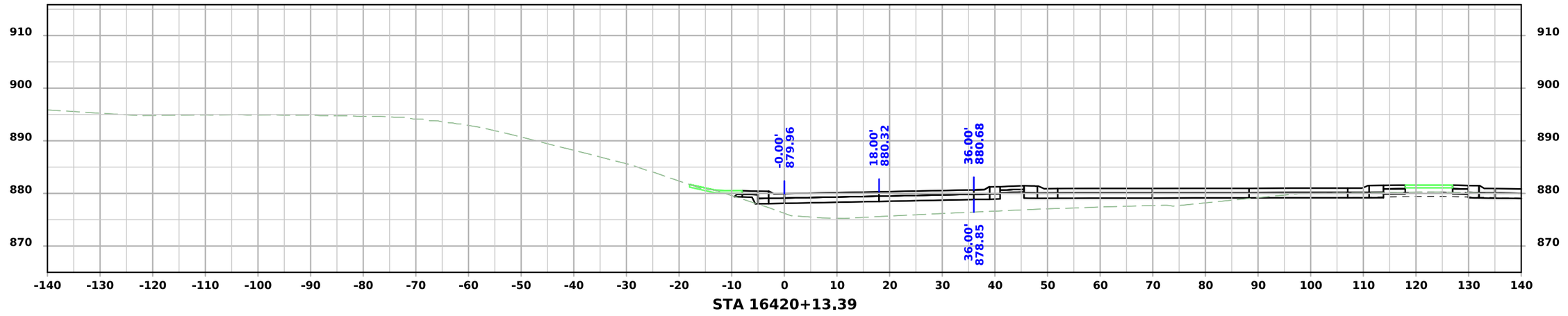
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V2

Hickman Road Ramp D-1 - Final Condition



STA 16420+25.00



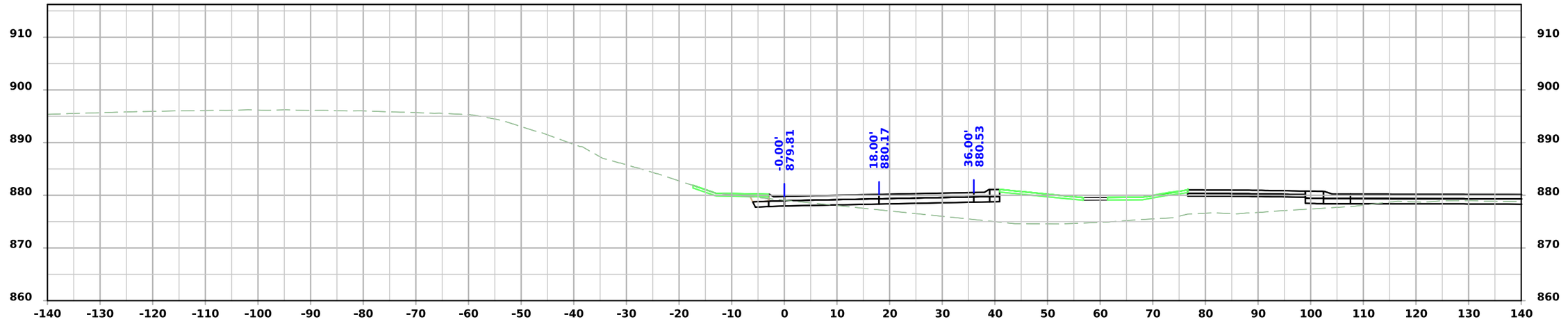
STA 16420+13.39

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER Y.704

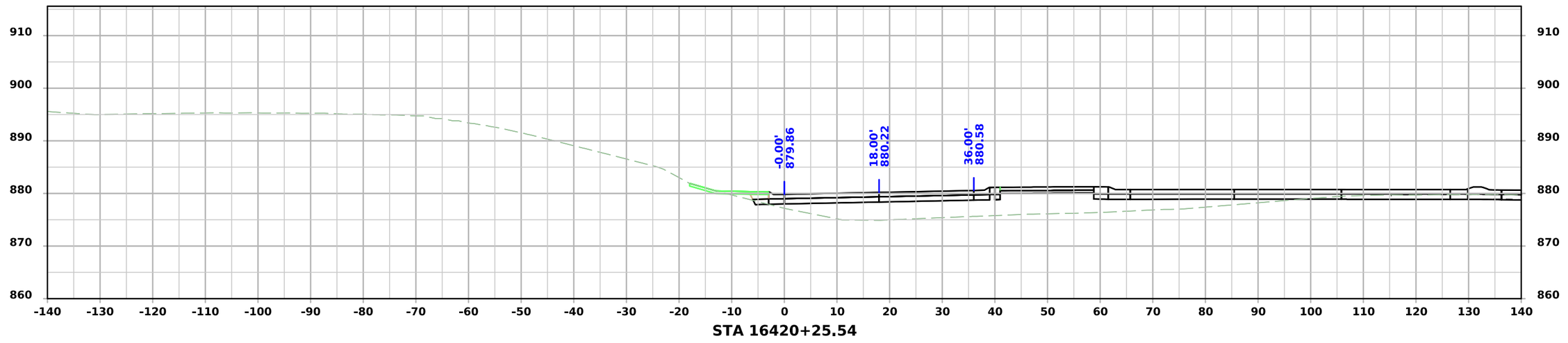
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V2

Hickman Road Ramp D-1 - Final Condition



STA 16420+50.00



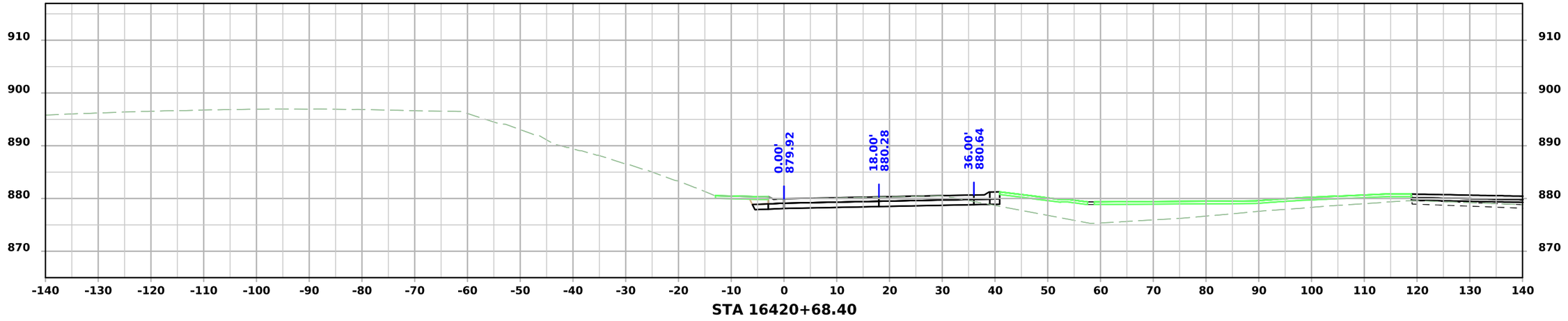
STA 16420+25.54

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER Y.705

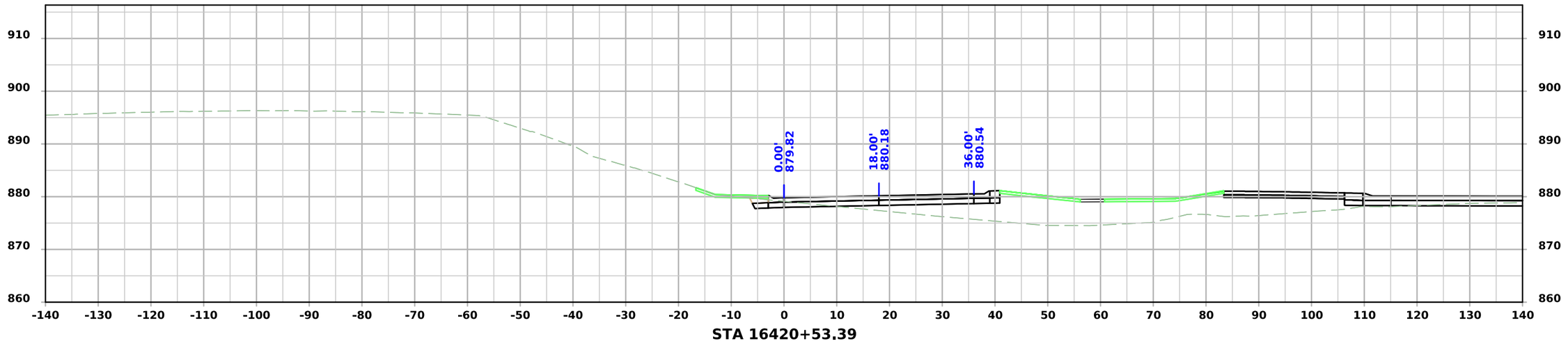
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V2

Hickman Road Ramp D-1 - Final Condition



STA 16420+68.40



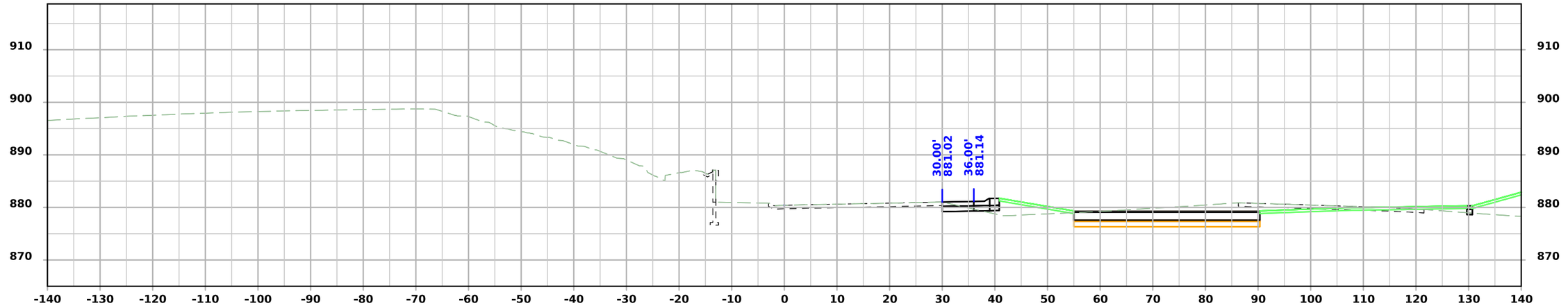
STA 16420+53.39

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER Y.706	

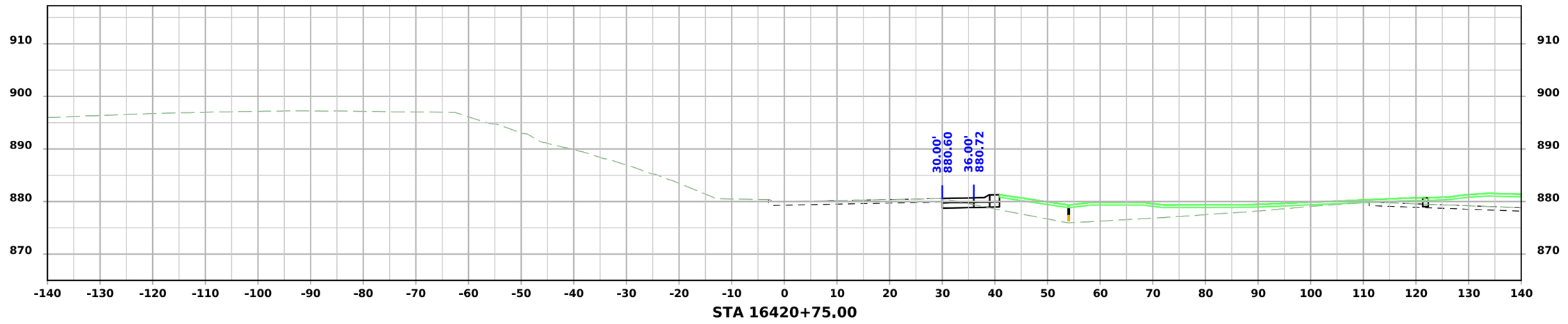
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V2

Hickman Road Ramp D-1 - Final Condition



STA 16421+00.00



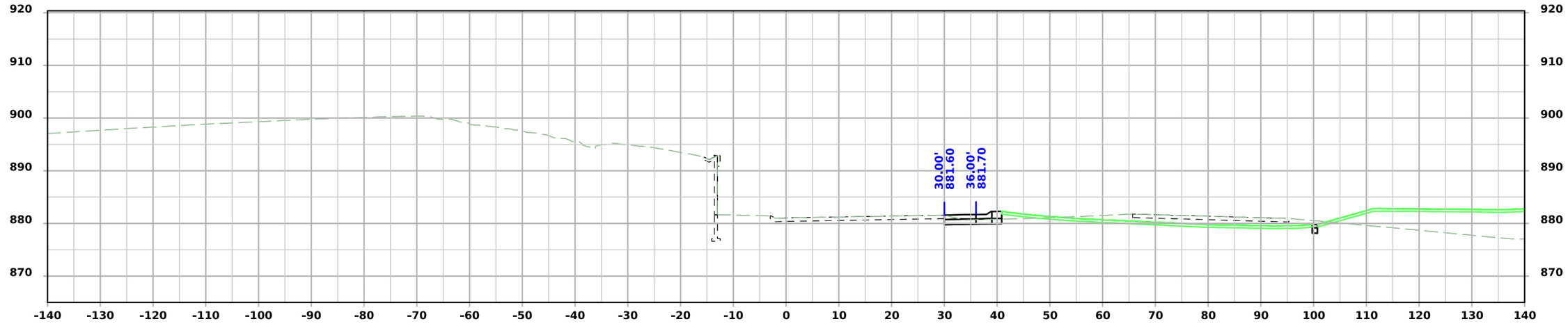
STA 16420+75.00

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER Y.707

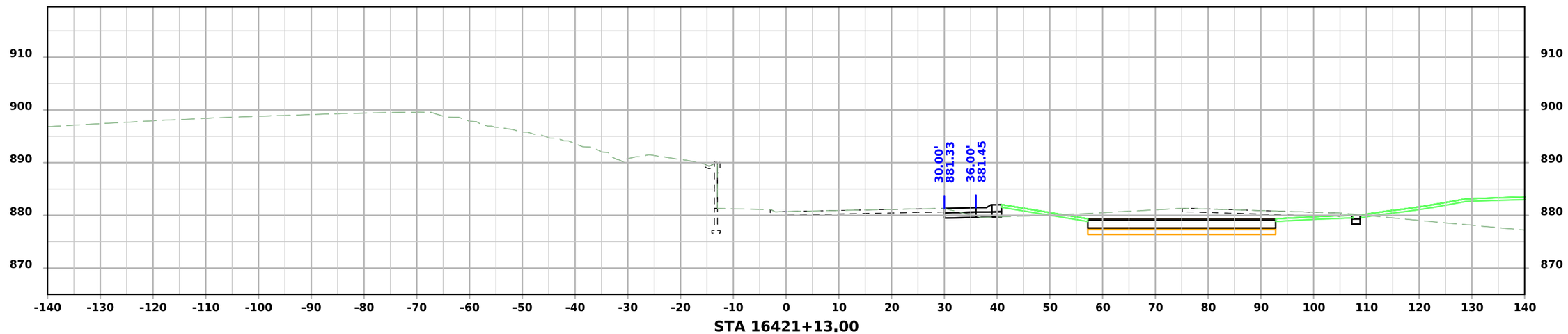
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V2

Hickman Road Ramp D-1 - Final Condition



STA 16421+25.00



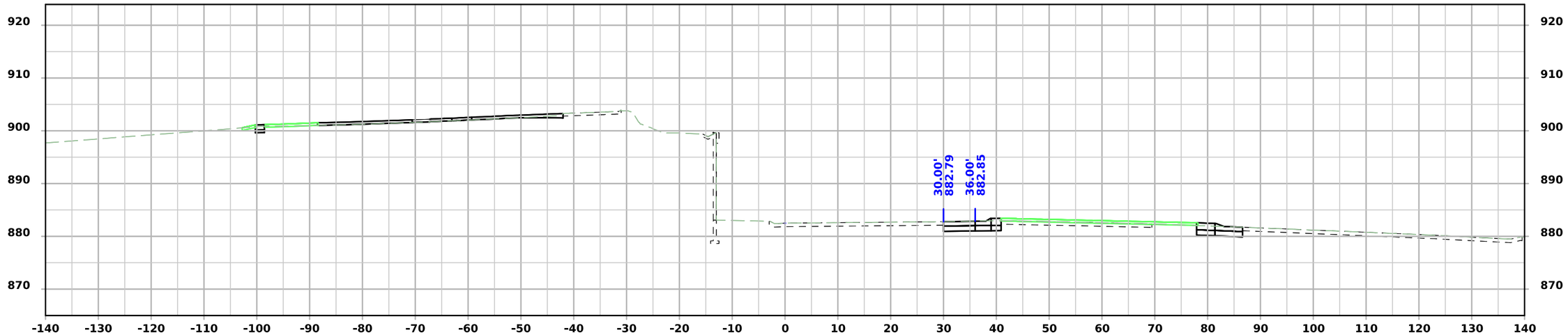
STA 16421+13.00

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER Y.708	

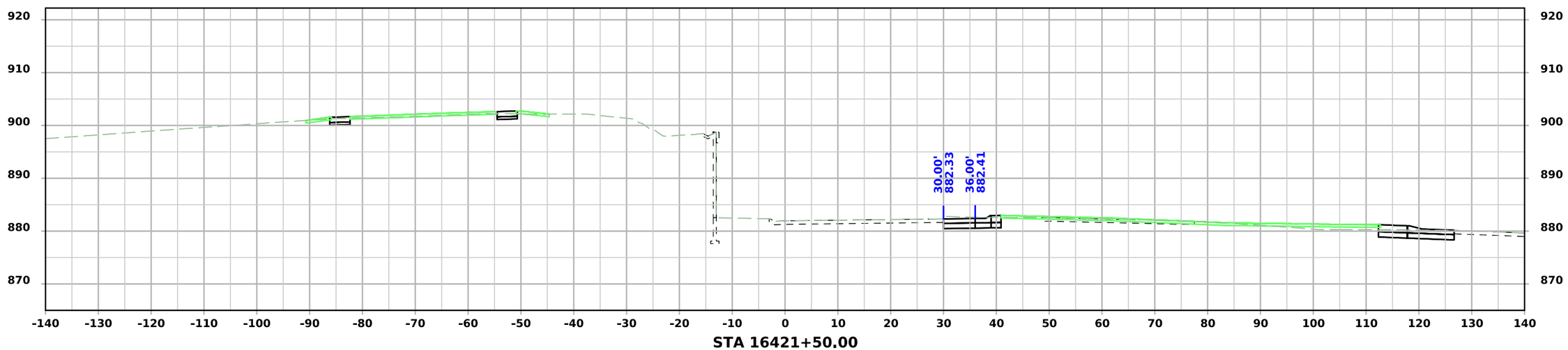
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V2

Hickman Road Ramp D-1 - Final Condition



STA 16421+63.00



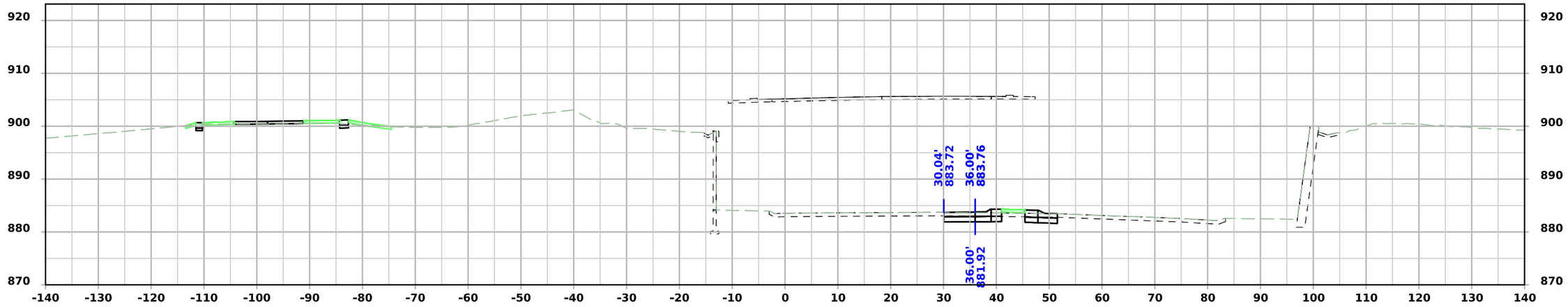
STA 16421+50.00

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER Y.709

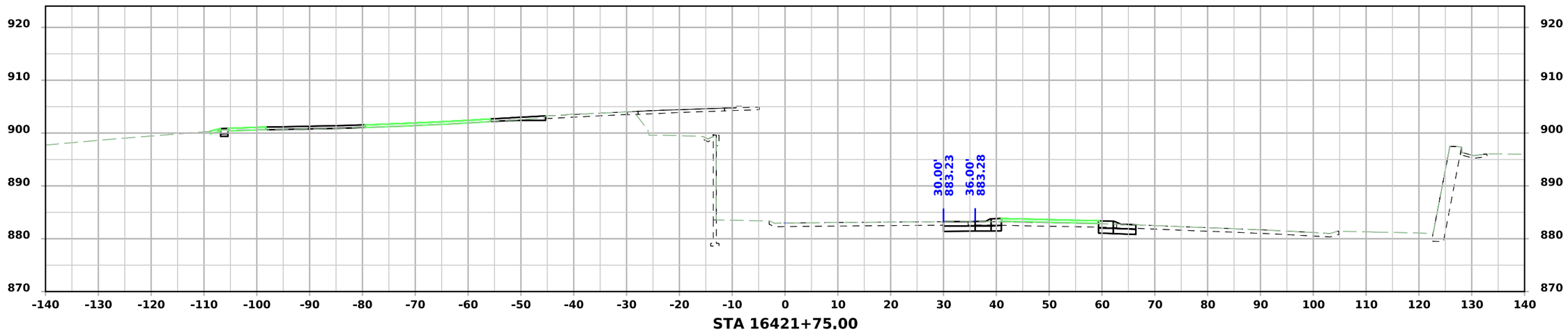
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V2

Hickman Road Ramp D-1 - Final Condition



STA 16421+88.41



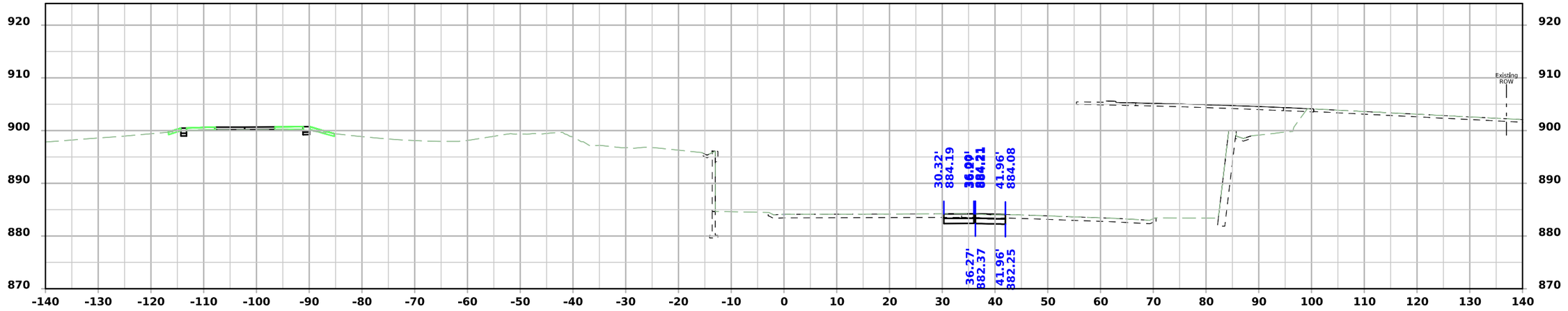
STA 16421+75.00

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER Y.710

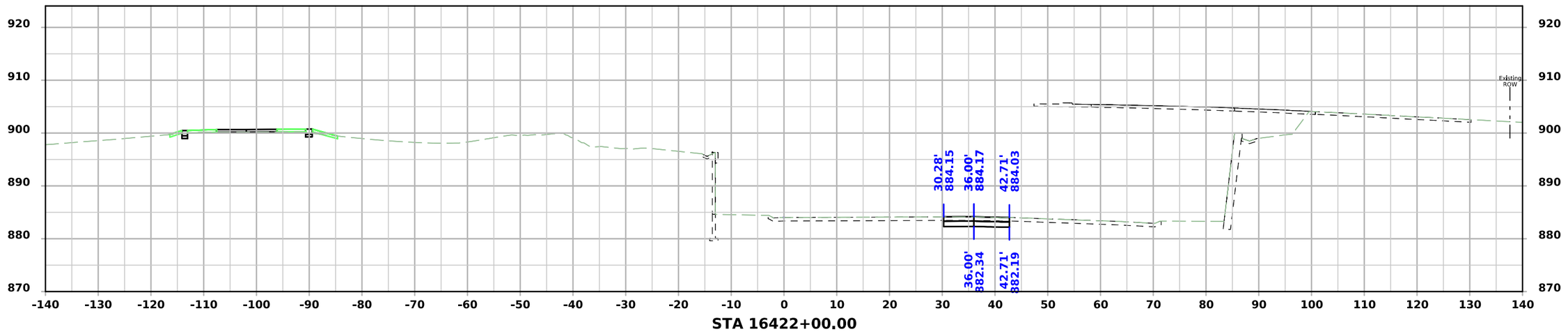
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V2

Hickman Road Ramp D-1 - Final Condition



STA 16422+01.18



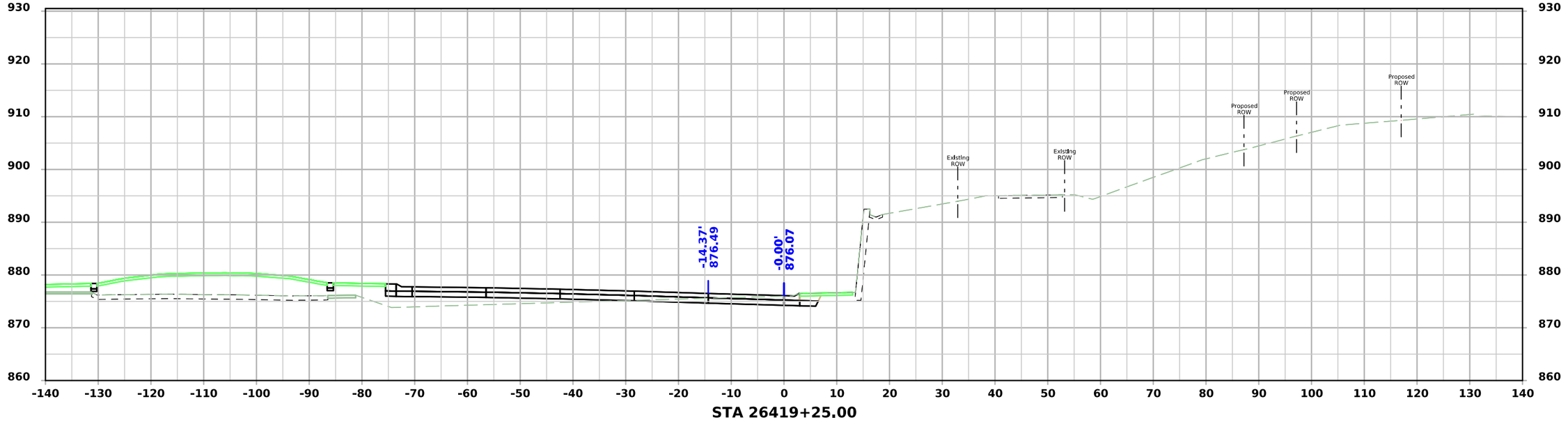
STA 16422+00.00

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER Y.711

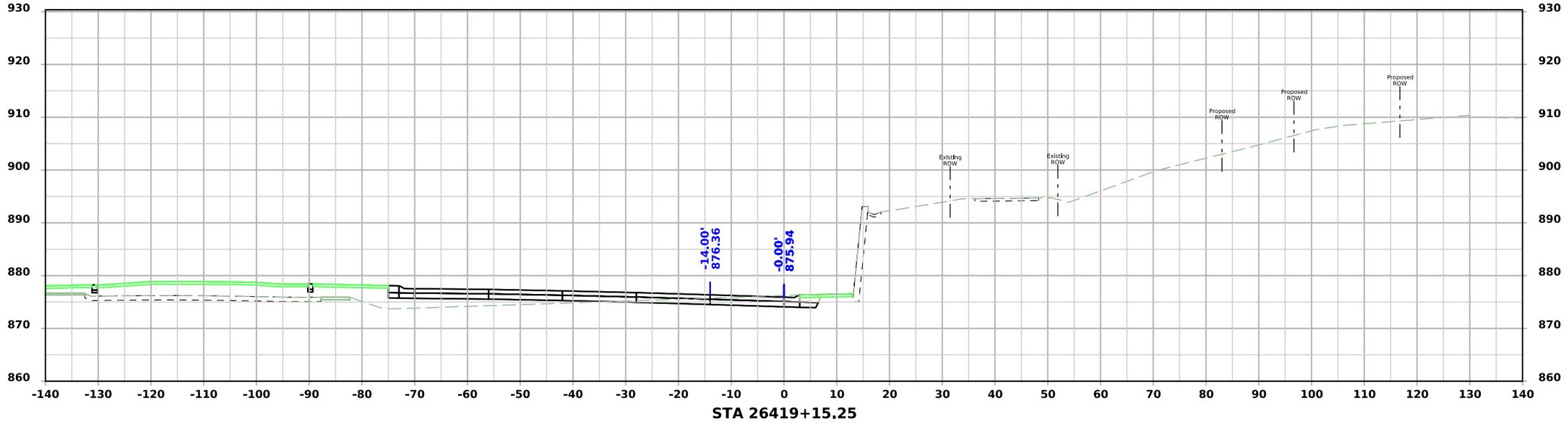
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V2

Hickman Road Ramp D-2 - Final Condition



STA 26419+25.00



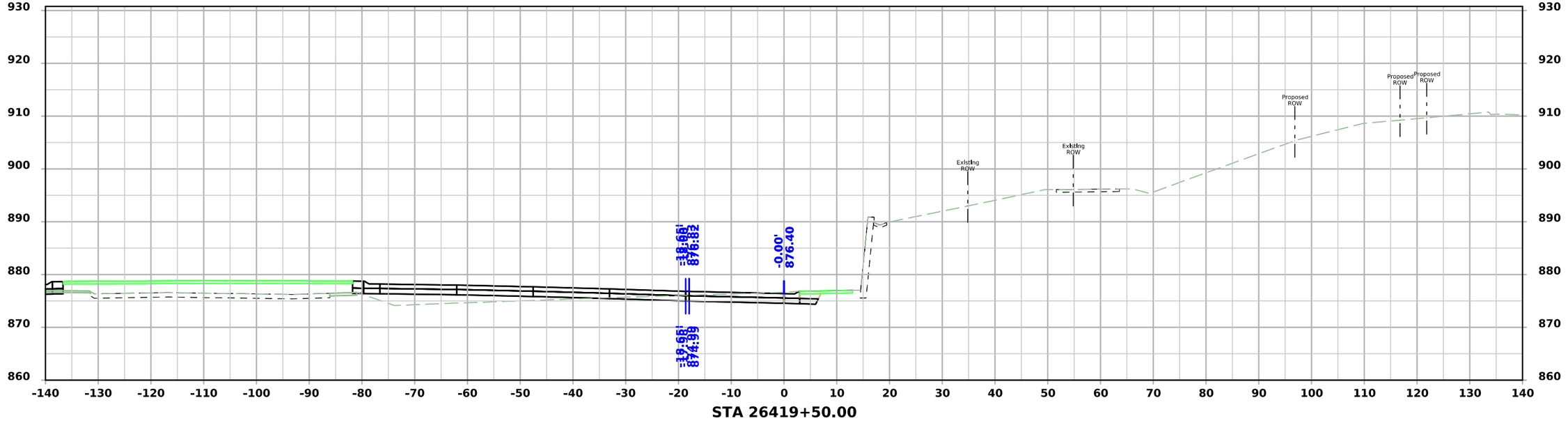
STA 26419+15.25

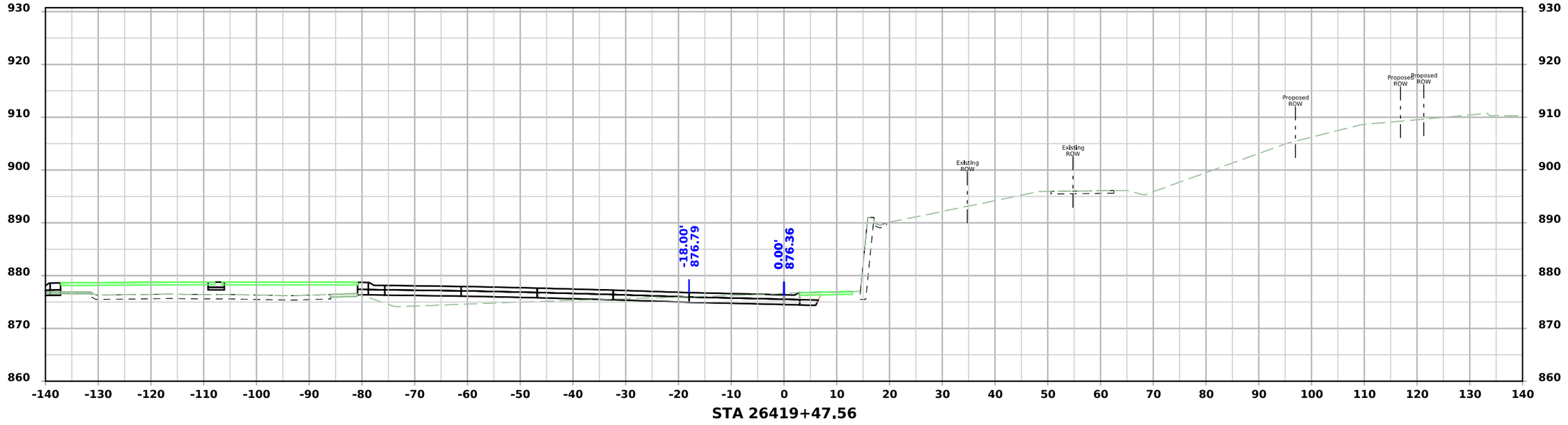
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V2

Hickman Road Ramp D-2 - Final Condition



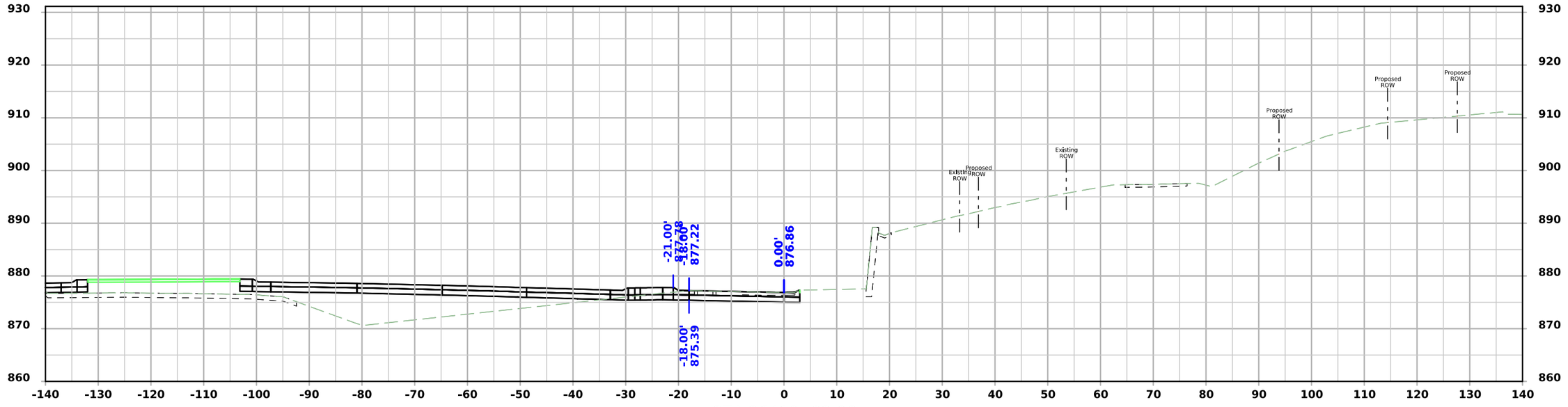


FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER Y.801

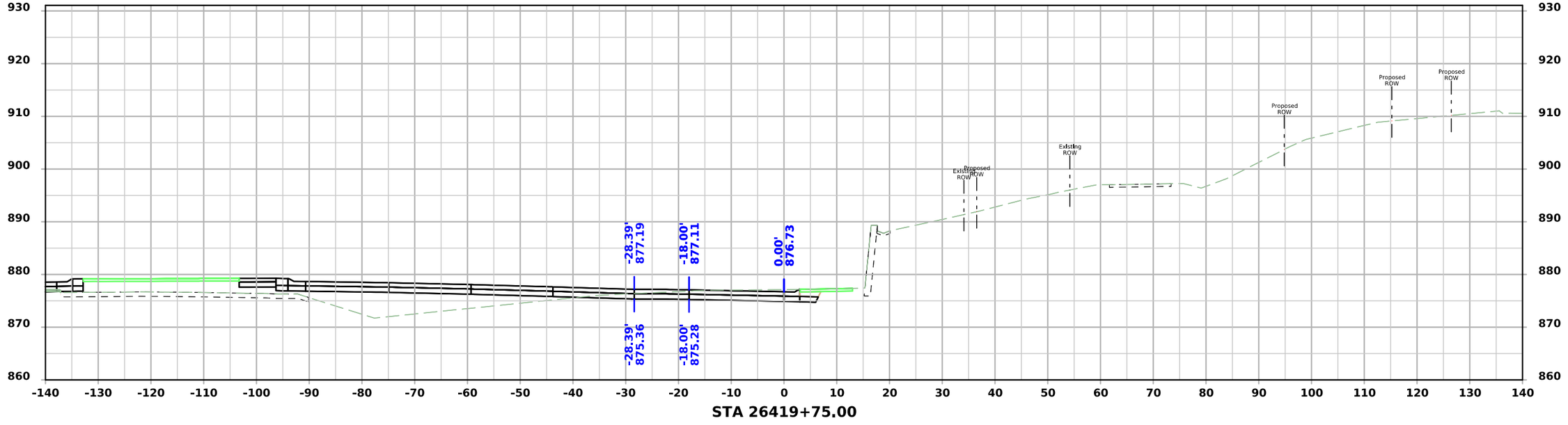
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V2

Hickman Road Ramp D-2 - Final Condition



STA 26419+82.98



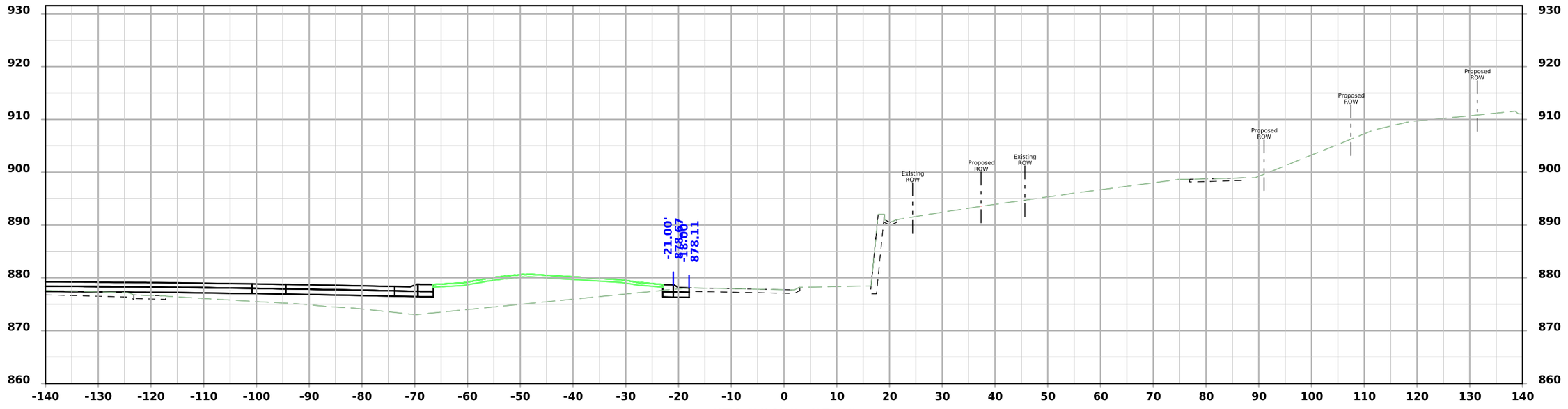
STA 26419+75.00

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER Y.802

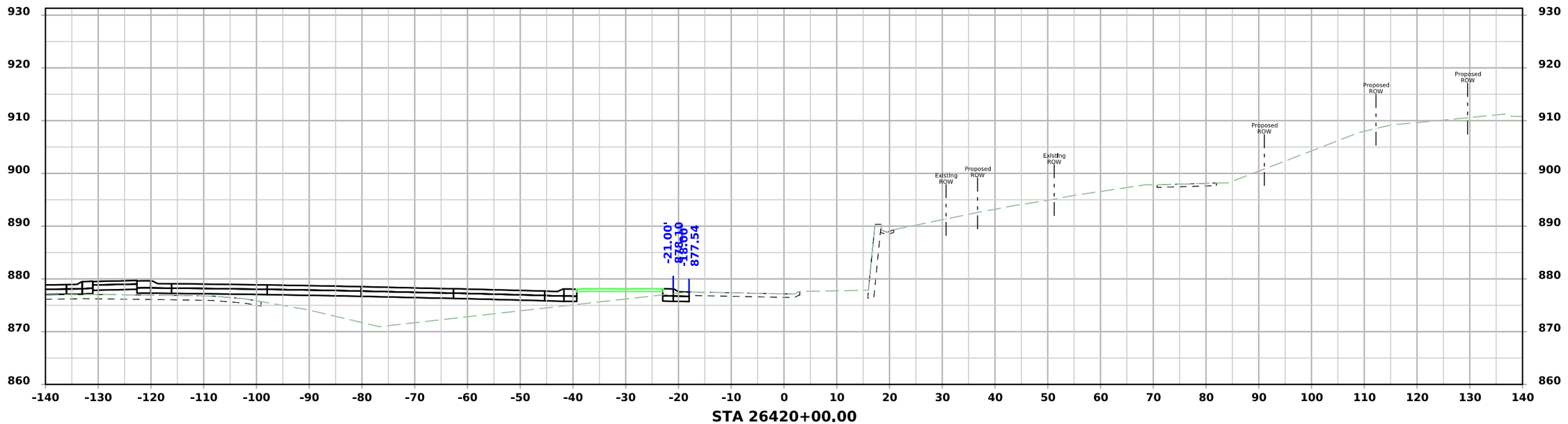
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V2

Hickman Road Ramp D-2 - Final Condition



STA 26420+25.00



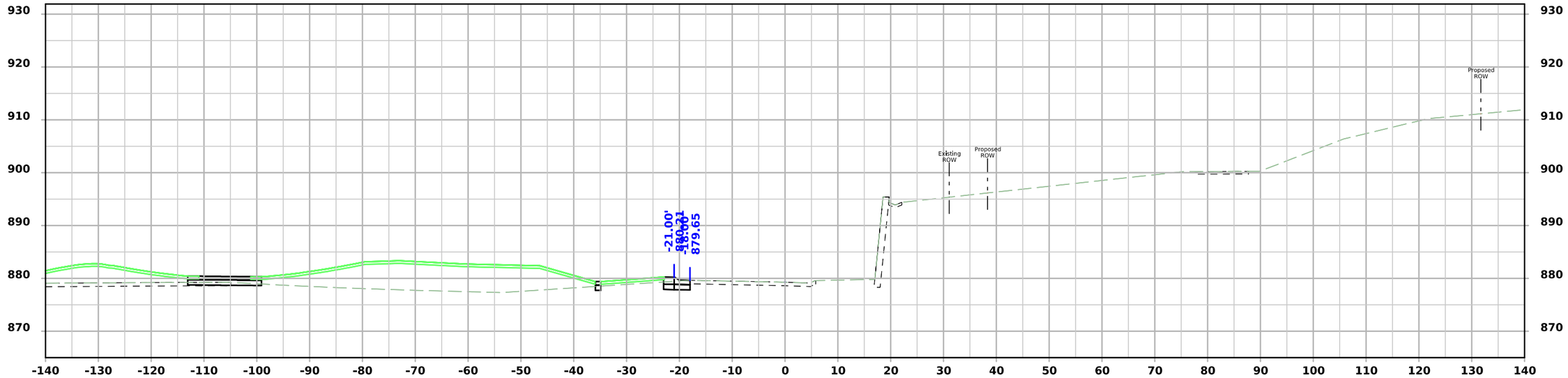
STA 26420+00.00

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER Y.803

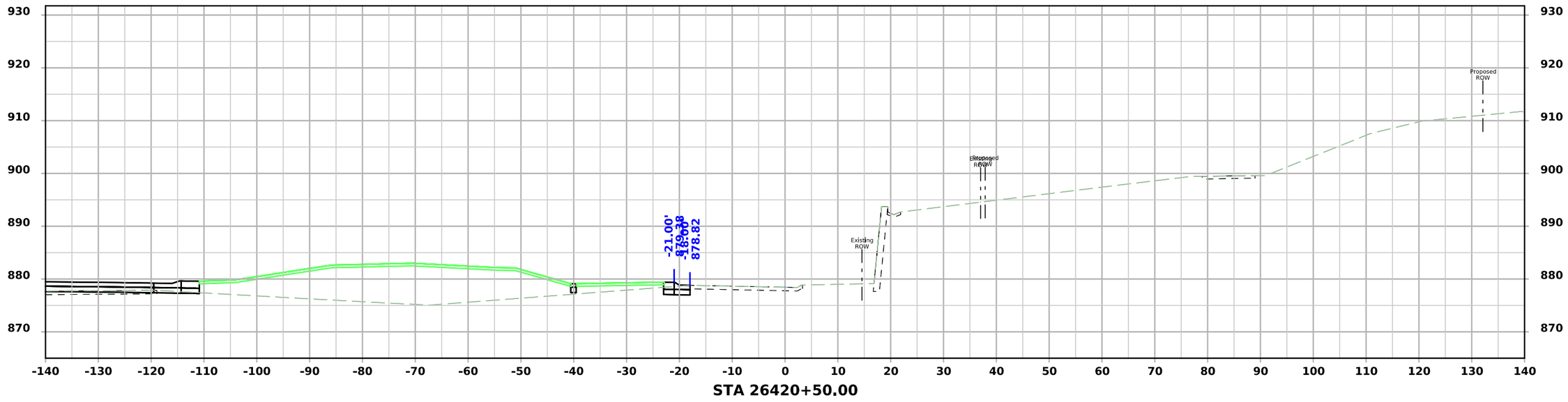
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V2

Hickman Road Ramp D-2 - Final Condition



STA 26420+75.00



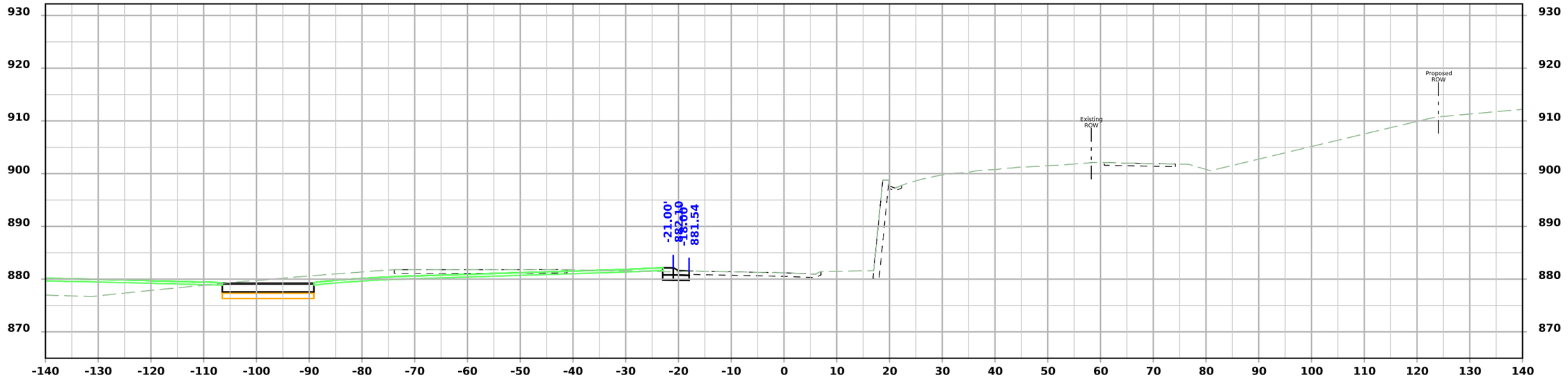
STA 26420+50.00

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER Y.804

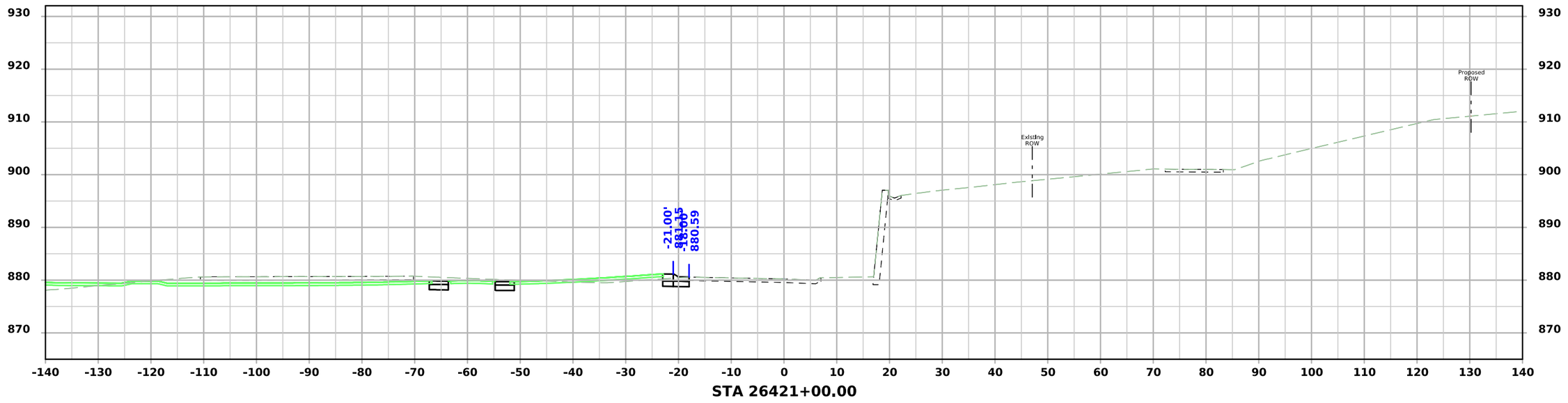
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V2

Hickman Road Ramp D-2 - Final Condition



STA 26421+25.00



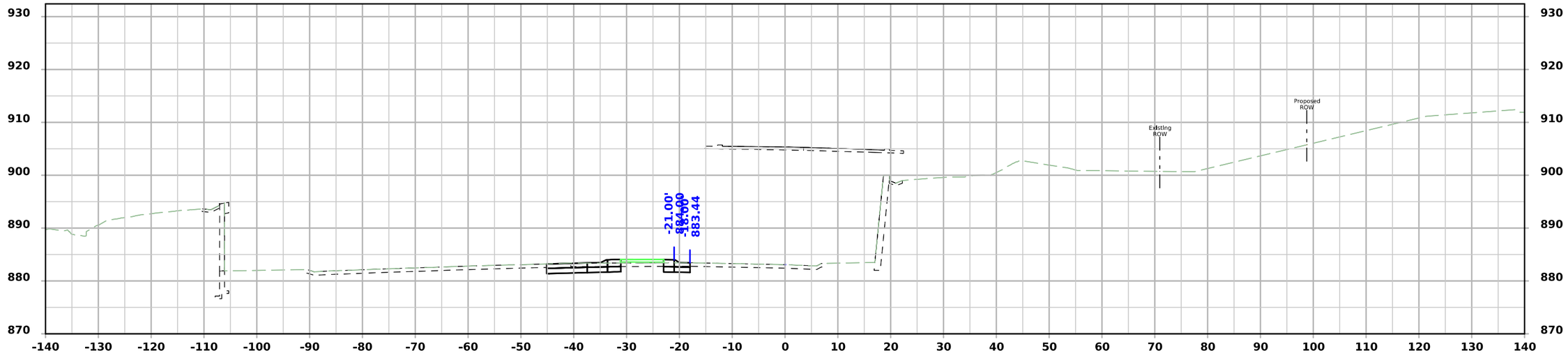
STA 26421+00.00

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER Y.805

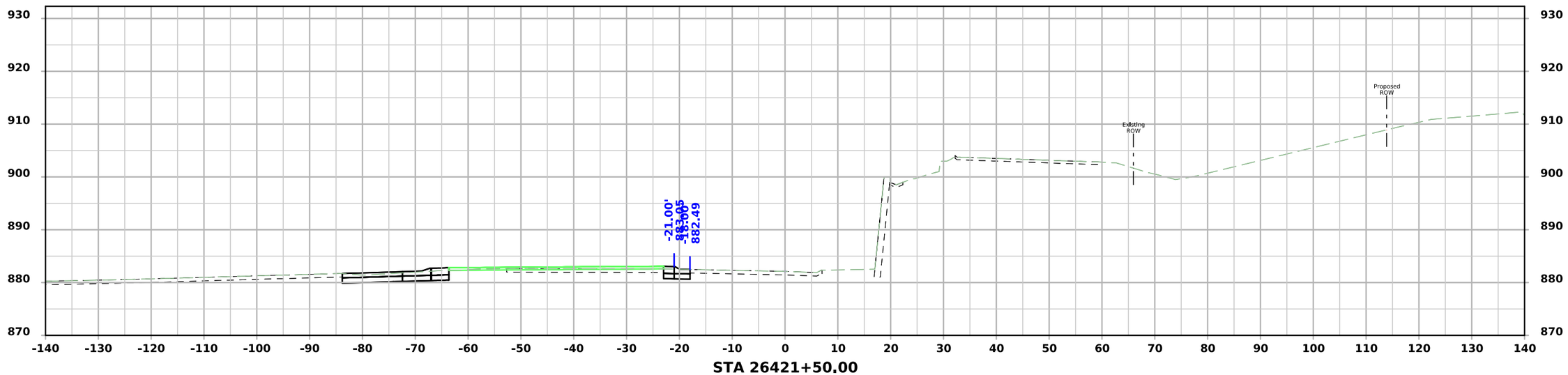
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V2

Hickman Road Ramp D-2 - Final Condition



STA 26421+75.00



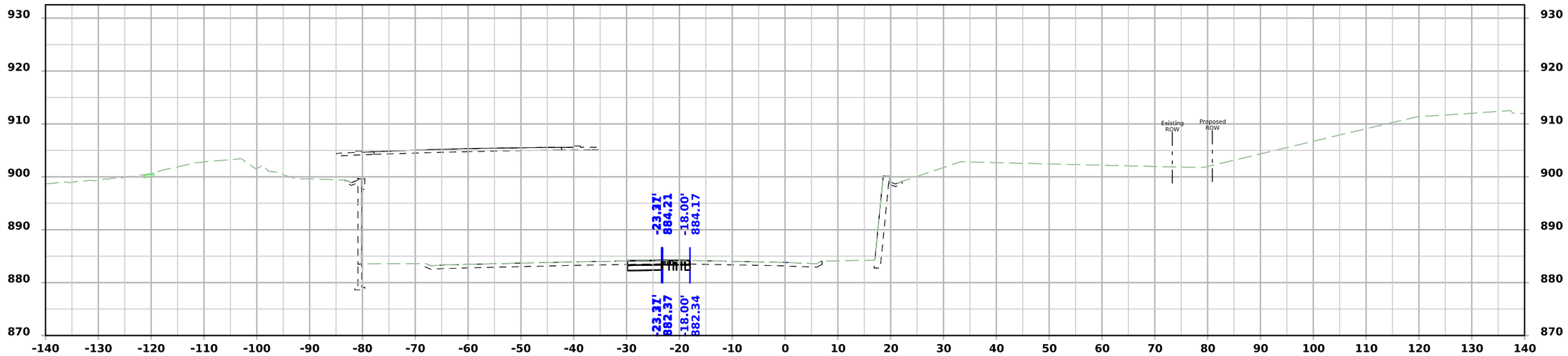
STA 26421+50.00

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER Y.806

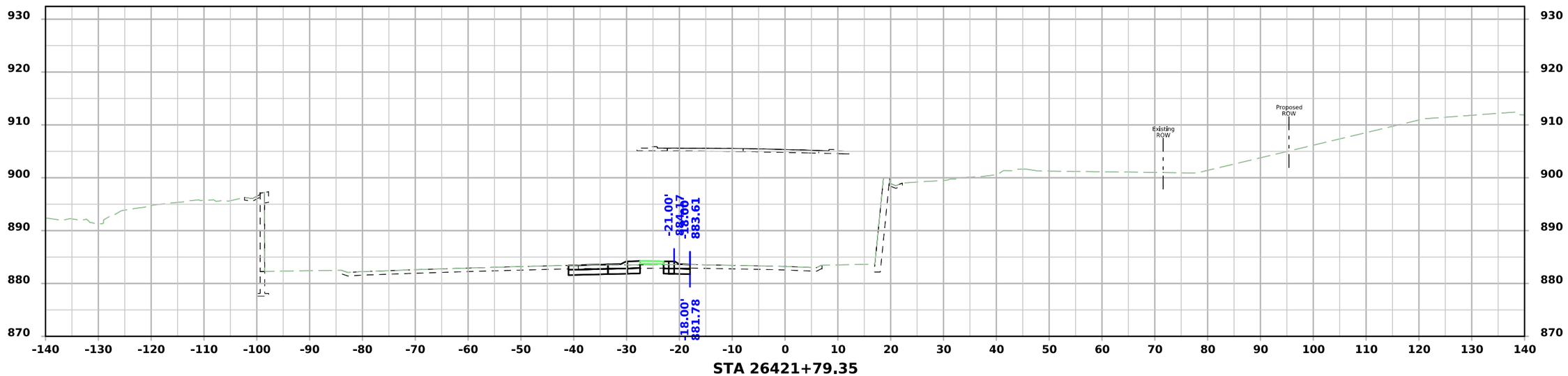
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V2

Hickman Road Ramp D-2 - Final Condition



STA 26421+94.25



STA 26421+79.35

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Polk COUNTY	PROJECT NUMBER IM-080-3(274)125--13-77	SHEET NUMBER Y.807

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V2