LETTING DATE 09-17-2024

UNKNOWN PAVEMENT - GRADE AND NEW
IM-080-4(069)125--13-77
POLK Co.

INDEX OF SHEETS

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* A.6	Traffic Data Hickman Raod
* A.7 - 9	Design Criteria
* A.6	Traffic Data Hickman Raod
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* Color Plan Sheets

H Sheets



IOWA DOT

PLANS OF PROPOSED IMPROVEMENT ON THE

INTERSTATE ROAD SYSTEM

POLK COUNTY

UNKNOWN PAVEMENT - GRADE AND NEW

RECONSTRUCTION OF THE EXISTING INTERCHANGE
U.S. HIGHWAY 6 (HICKMAN ROAD) AND
INTERSTATE 35 / INTERSTATE 80 (I-35/80)

SCALES: As Noted

Refer to the Proposal Form for list of applicable specifications.

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

NO MILEAGE SUMMARY

REVISIONS

TOTAL 473
PROJECT IDENTIFICATION NUMBER
15-77-080-060
PROJECT NUMBER
IM-080-4(069)125--13-77
R.O.W. PROJECT NUMBER
IMN-080-3(279)124--0E-77
-
-

Anticipated Project Development Schedule:

IJR5	Interchange Justification Report August 28, 2019
D2	Design Field Exam December 2, 2021
D3	Plans for Preliminary Bridge February 4, 2022
B1	Bridges and Structures Layout May 24, 2022
S2	Identification of Soils Related ROW Issues June 3, 2022
D5	Plans to Right-of-Way July 1, 2022
R1	Right-of-Way Layout September 30, 2022
P09	Public Information Meeting (PIM) November, 2022

For Project Location Map refer to Sheet A.2

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

U.S. Hwy. 6 DESIGN DATA RURAL		
2015 AADT	39,600	V.P.D.
2042 AADT	57,100	V.P.D.
2042 DHV	5,060	V.P.H.
TRUCKS	6	%
Total Design ESALs	--	

I-35/80 DESIGN DATA RURAL		
2015 AADT	108,600	V.P.D.
2042 AADT	163,400	V.P.D.
2042 DHV	15,610	V.P.H.
TRUCKS	13	%
Total Design ESALs	--	

D5 PLANS

Subject to change by final design.

D5 PLAN – Date: July 1, 2022

FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER A.1

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T-78N

T-79N

R-25W

R-25W

City of Clive

City of Urbandale

STA. 371+52.00
BEGIN PROJECT

STA. 484+25.00
END PROJECT

80

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-080-4(069)125--13-77	SHEET NUMBER A.2

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Legend

X,XXX 2042 AM Peak Hour Volumes

(X,XXX) 2042 PM Peak Hour Volumes

XX,XXX 2042 AADT

X Number of Lanes

Level of Service

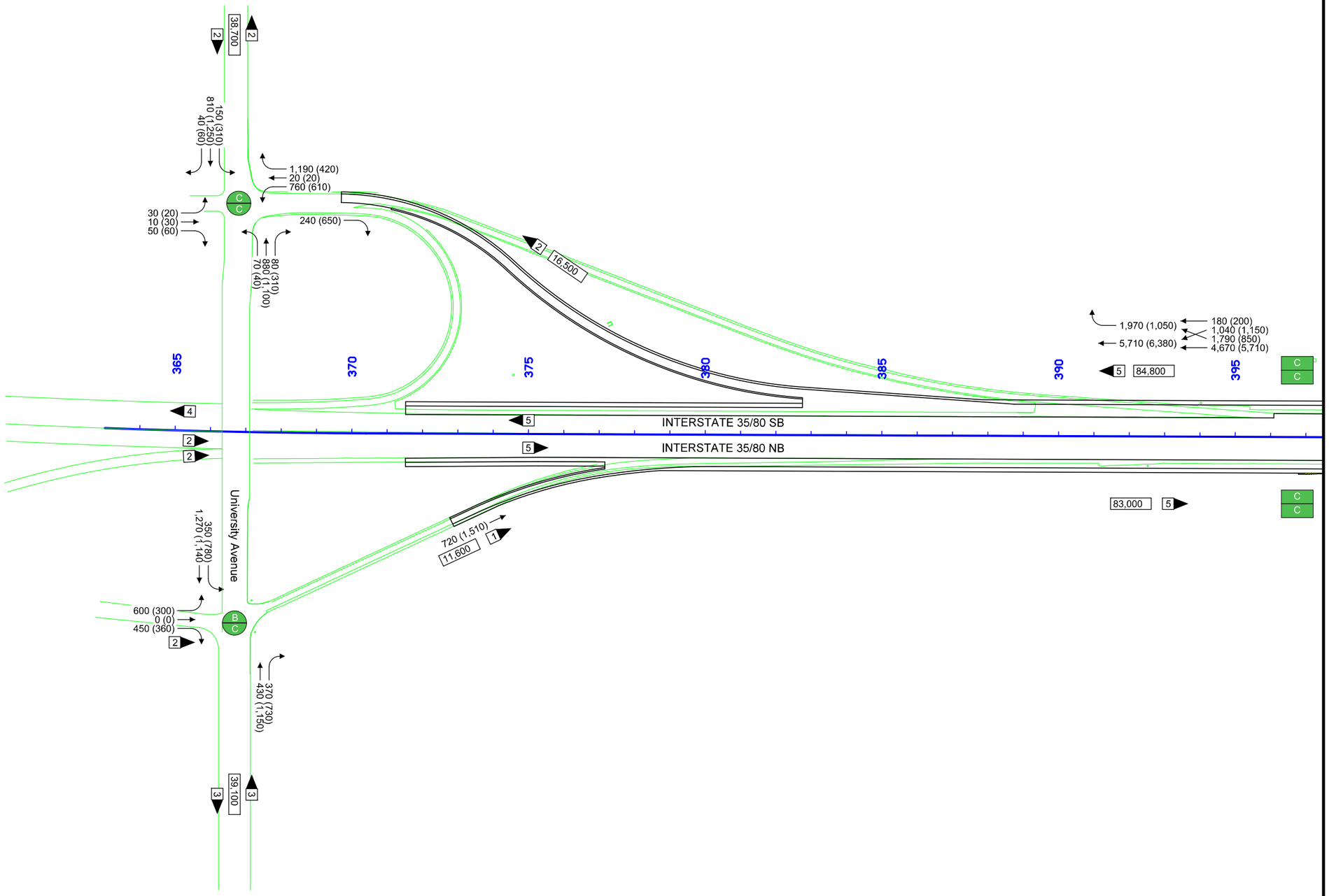
A | B | C | D | E | F

AM / PM Ramp Merge

AM / PM Ramp Diverge

AM / PM Weaving Segment

AM / PM Traffic Signal



TRAFFIC DATA
Interstate 35/80
at University Avenue

FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER A.3

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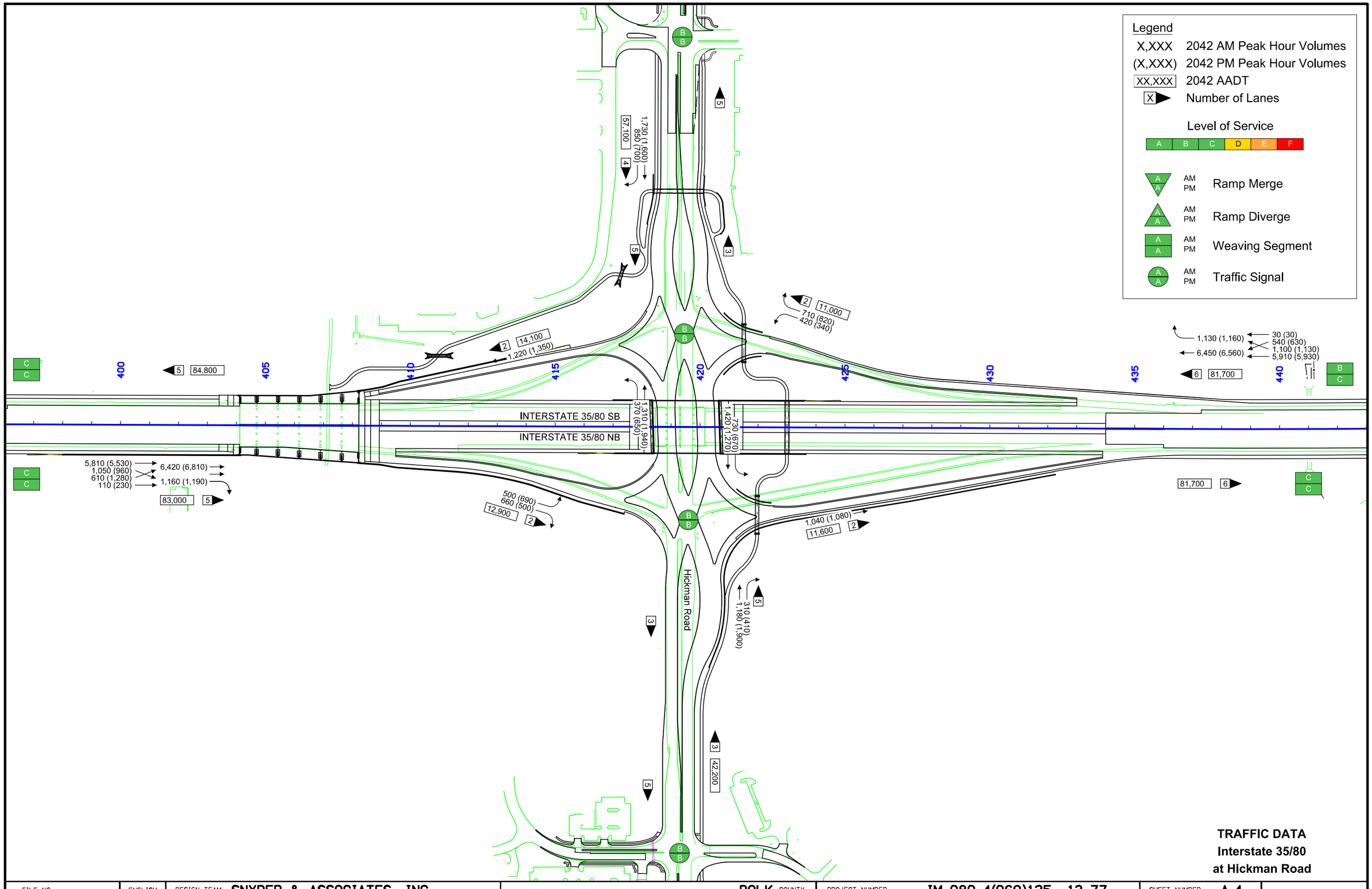

TRAFFIC DATA
Interstate 35/80
at Hickman Road

FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER A.4

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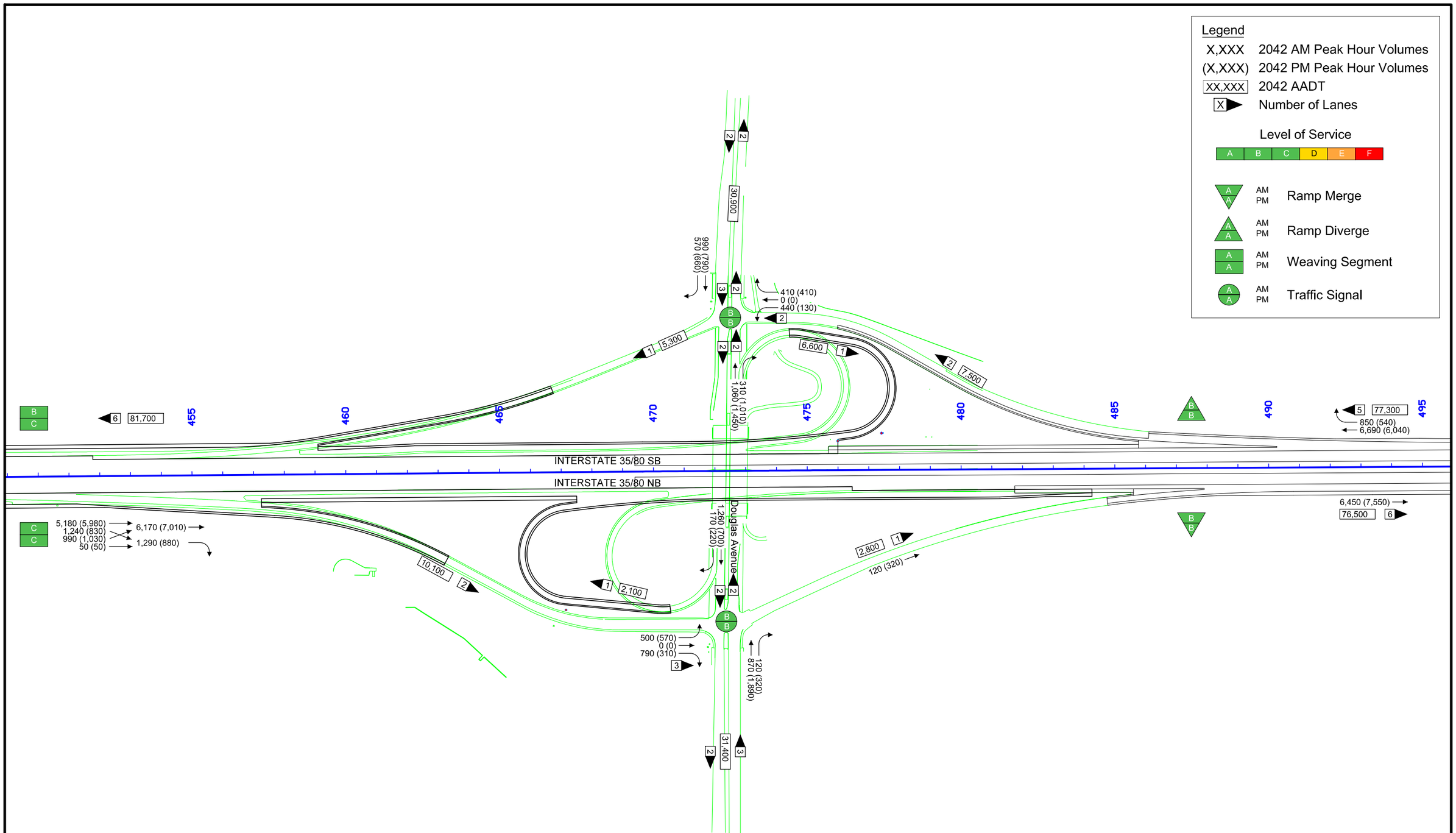

TRAFFIC DATA
Interstate 35/80
at Douglas Avenue

FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER A.5

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Legend

X,XXX 2042 AM Peak Hour Volumes

(X,XXX) 2042 PM Peak Hour Volumes

XX,XXX 2042 AADT

X Number of Lanes

Level of Service

A B C D E F

AM / PM Ramp Merge

AM / PM Ramp Diverge

AM / PM Weaving Segment

AM / PM Traffic Signal

430

425

420

415

410

405

INTERSTATE 35/80 SB

INTERSTATE 35/80 NB

Hickman Road

11,000
2
710 (820)
420 (340)

1,040 (1,080)
11,600
2

190 (150)
10 (40)
290 (420)

5
360 (470)
1,520 (2,120)
140 (170)

3
48,200
3
57,100

730 (670)
1,420 (1,270)

5
310 (410)
1,180 (1,900)

3
42,200

90 (30)
10 (10)
20 (10)

20 (20)
1,210 (1,880)
230 (170)

2
40,300
2

20 (220)
2,170 (1,720)
10 (10)

40 (90)
0 (20)
120 (160)

1,730 (1,600)
850 (700)
4
5

1,310 (1,940)
370 (650)

3

5
40 (70)
1,670 (1,530)
370 (170)

190 (400)
10 (10)
80 (190)

14,100
2
1,220 (1,350)

500 (690)
660 (500)
12,900
2

TRAFFIC DATA
Hickman Road
at Interstate 35/80

FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER A.6

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FILE NO.	
ENGLISH	
DESIGN TEAM	SNYDER & ASSOCIATES, INC.
POLK COUNTY	
PROJECT NUMBER	IM-080-4(069)125--13-77
SHEET NUMBER	A.7

Interstate 35/80 Design Criteria

Roadway	**Interstate 35/80**		
PIN Number	13-77-080-040-69	**Submittal Date**	08/09/21
Project Number	IM-080-4(69)125--13-77		**Approval Date**
District	District 1	**Assistant District Engineer**	Allison Smyth
County	Polk	**or**	
Route	I-35/80	**Office Director**	
Location	North of University Avenue to North of Douglas Avenue		
Work Type	Unknown Pavement Grade and New		
Segment Manager			
Designer	Snyder & Associates, Inc.		

Design Manual Section 1C-1
Last Updated: 04-29-19

Urban Interstates (Urban Freeways)

Design Element		Preferred	Acceptable	Project Values
Design speed (mph)		5 miles above the anticipated posted speed limit	50	70
Maximum superelevation rate (%) (Refer to Section 2A-2)		6	8	6
Design lane width (ft)		12	12	12
Full depth paved width (ft)	Outside lane	12	12	12
	Inside lane(s)	12	12	12
Auxiliary-lane width (ft)		12	12	12
Pavement cross-slope	Through lanes	2%, However, when adjacent lanes slope in the same direction, increase slope by 0.5% per lane up to 3%	1.5% minimum, 3 % maximum	2%
	Auxiliary lanes	3%	3% maximum	3%
	Crown break at centerline	4%	4% maximum	4%
Shoulder cross-slope	Interstates	4%	6% max, but not less than the cross slope of the adjacent lane	4%
	Freeways	4%	6% max, but not less than the cross slope of the adjacent lane	N/A
Curb type (Refer to Section 3C-2)	Interstates	4-inch sloped	4-inch sloped	No Curb
	Freeways	4-inch sloped	4-inch sloped	N/A
Foreslope (For fill areas greater than 40 ft, contact the Soils Design Section for assistance)	Adjacent to shoulder	10:1 for 4' then 6:1	4:1 for Interstates, 3:1 for Freeways*	10:1 for 4' then 6:1
	Beyond standard ditch depth and design clear zone	3.5:1	3:1	3.5:1
	Curbed roadways	2%	4:1 for Interstates, 3:1 for Freeways*	N/A
Backslope (For cut areas greater than 25 feet, contact the Soils Design Section for assistance with backslope benches.)		3:1	2.5:1	3:1
Transverse Slopes	w/ drainage structures	8:1	6:1	8:1
	w/o drainage structures	10:1	6:1	10:1
Ditches (Refer to Section 3G-1)	Outside ditch (depth x width) (ft)	5 x 10	--	5 x 10
	Median ditch depth (ft)	4	--	N/A Barrier Rail
Median width (ft) (Refer to Section 3E-1)	Interstates	34	10	36
	Freeways	34	10	N/A
Bridge width—new***	Bridge length ≤ 200 ft	design lane widths + effective shoulder widths	design lane widths + effective shoulder widths	N/A
	Bridge length > 200 ft	design lane widths + effective shoulder widths	design lane width + 4' right and left of the design lane widths	88'-10.5"
Bridge width—existing***	Bridge length ≤ 200 ft	design lane widths + no less than 10' right and 3.5' left	design lane widths + 10' right shoulder and 3.5' left shoulder	N/A
	Bridge length > 200 ft	design lane widths + no less than 3.5' left and right	design lane widths + 3.5' right and left of the design lane widths	62'-10.5"
Vertical clearance (ft) (above lanes, shoulders and 25 feet left and right of the center of railroad tracks))	Over primary	16.5	16	16.5
	Over non-primary	16.5 at interchange locations, 15 ft at all other locations	14	16.5
	Over railroad	23.3	23.3	N/A
	Sign trusses and pedestrian crossings	17.5	17	17
Structural Capacity		Contact Office of Bridges and Structures	Contact Office of Bridges and Structures	HL-93
Level of Service	Freeway segments	C	C**	C
	Auxiliary Facilities	C	C**	C

*Design Exception not required for Freeways
**LOS D may be acceptable in spot locations with FHWA approval
***FHWA notification via email is required if acceptable criteria is not met on the Interstate or NHS systems (No formal design exception required)

Directional Design Hourly Volume (DDHV) for Trucks = 700

Design Manual Section 1C-1
Last Updated: 04-29-19

Effective Shoulder Width and Type for Interstates (Freeways)

Auxiliary Lanes	Preferred (values shown in feet)		Acceptable (values shown in feet)		Project Values
	Effective Shoulder Width	Paved Width	Effective Shoulder Width	Paved Width	
	6	6	6	6	6

4-Lane Sections

Design Year Traffic	Outside		Median Side		Outside		Median Side		Project Values
	Effective Shoulder Width	Paved Width	Effective Shoulder Width	Paved Width	Effective Shoulder Width	Paved Width	Effective Shoulder Width	Paved Width	
Less than or equal to 250 DDHV	10	10	6	6	10	10	4	4	N/A
Greater than 250 DDHV	12	12	6	6	12	12	4	4	N/A

Sections with 6 or more lanes

Design Year Traffic	Outside		Median Side		Outside		Median Side		Project Values
	Effective Shoulder Width	Paved Width	Effective Shoulder Width	Paved Width	Effective Shoulder Width	Paved Width	Effective Shoulder Width	Paved Width	
Less than or equal to 250 DDHV	10	10	10	10	10	10	10	10	N/A
Greater than 250 DDHV	12	12	12	12	12	12	12	12	12

Curbs should be located beyond the outer edge of the paved shoulder

Roadway Design Speed (mph) = 70

Design Manual Section 1C-1
Last Updated: 04-29-19

Design Criteria for High Speed Roadways

Design Element			Preferred Criteria Design Speed, mph						Acceptable Criteria Design Speed, mph						Project Values
			50	55	60	65	70	75	50	55	60	65	70	75	
Stopping sight distance (ft) (Refer to Section 6D-1)			425	495	570	645	730	820	425	495	570	645	730	820	730
Minimum horizontal curve radius (ft) (Refer to Sections 2A-2 and 2A-3)	Method 5 superelevation and side friction distribution	e_{max} = 6%	833	1060	1330	1660	2040	2500	833	1060	1330	1660	2040	2500	2040
		e_{max} = 8%	--	--	--	--	--	--	758	960	1200	1480	1810	2210	N/A
Minimum vertical curve length (ft) (Refer to Section 2B-1)			150	165	180	195	210	225	150	165	180	195	210	225	210
Minimum rate of vertical curvature (K) (Refer to Section 2B-1)	crest vertical curves		84	114	151	193	247	312	84	114	151	193	247	312	247
	sag vertical curves	roadways without fixed-source lighting	96	115	136	157	181	206	96	115	136	157	181	206	104
		roadways with fixed-source lighting	96	115	136	157	181	206	54	66	78	91	106	121	104
Minimum gradient (%)	(Refer to Section 2B-1)		0.5						0.3% with a curb, 0.0% without a curb						0.203%
Maximum gradient (%) (Refer to Section 2B-1)		Urban roadways	4		3				7	6	6	--	--	--	N/A
		Rural roadways							5	5	4	4	4	4	N/A
		Interstates							5	5	4	4	4	4	3%
Clear zone			See "Preferred Clear Zone" table in Section 8A-2						See "Acceptable Clear Zone" table in Section 8A-2						34

Interchange Ramp Design Criteria

Roadway	**Interstate 35/80: University, Hickman and Douglas Interchange Ramps**			
PIN Number	13-77-080-040-69		**Submittal Date**	08/09/21
Project Number	IM-080-4(69)125--13-77			**Approval Date**
District	District 1	**Assistant District Engineer**	Allison Smyth	
County	Polk	**or**		
Route	I-35/80	**Office Director**		
Location	University, Hickman Road and Douglas Interchange Ramps			
Work Type	Unknow Pavement Grade and New			
Segment Manager				
Designer	Snyder & Associates, Inc.			

Design Manual Section 1C-1
Last Updated: 04-29-19

Ramps

Design Element		Preferred Values	Acceptable Values	Project Values
Design speed (mph)		See Design Speed for Ramps Table Below	See Design Speed for Ramps Table Below	60, 25 (Loop)
Design lane width (ft)				
Turn-lane width (ft)	Interstate ramps	12	12	12
	Non-Interstate ramps	12	10	N/A
Pavement cross-slope (on tangent sections)		2%	1.5% minimum, 2% maximum	2%
Shoulder cross-slope (on tangent sections)		4	Shoulder cross-slope cannot be less than the adjacent lane, 6% max for paved or granular shoulders, 8% max for earth shoulders	4%
Foreslope (For fill areas greater than 40 ft, contact the Soils Design Section for assistance)	Adjacent to shoulder	10:1 for 4' then 6:1	4:1 for interstates*, 3:1 for other roadways	10:1 for 4' then 6:1
	Beyond standard ditch depth and design clear zone	3.5:1	3:1	3.5:1
	Curbed roadways	2%	not steeper than 3:1	2%
Bridge width—new**		design lane widths + effective shoulder widths	design lane widths + effective shoulder widths	N/A
Bridge width—existing**		design lane widths + effective shoulder widths	design lane widths + effective shoulder widths	N/A
Vertical clearance (ft) (above lanes, shoulders and 25 feet left and right of the center of railroad tracks)	Over primary	16.5	16	16.5
	over non-primary	16.5 at interchange locations, 15 at all other locations	14	N/A
	over railroad	23.3	23.3	N/A
	sign truss and pedestrian bridges	17.5	17	N/A
Structural Capacity		Contact Office of Bridges and Structures	Contact Office of Bridges and Structures	N/A

*Design Exception required for ramps on the Interstate system only
**FHWA notification via email is required if acceptable cirteria is not met on the Interstate or NHS systems (No formal design exception required)

Design Manual Section 1C-1
Last Updated: 04-29-19

Effective Shoulder Width and Type for Ramps

Design Element		Ramp Type: Preferred							Ramp Type: Acceptable							Project Values
		Diagonal		Loop	Semi-Directional		Directional		Diagonal		Loop	Semi-Directional		Directional		
		one lane	two lane		one lane	two lane	one lane	two lane	Radius*> 500 feet* one lane	Radius*> 500 feet* two lane		Radius > 500 feet* one lane	Radius > 500 feet* two lane	Radius > 500 feet one lane	Radius > 500 feet two lane	
Full depth paved width (ft)		16	24	18	16	24	16	24	14	22	17	14	22	14	22	16, 24, 18
Design lane width (ft)		16	12	18	16	12	16	12	14	11	17	14	11	14	11	16, 12, 18
Paved shoulder width (ft) (in the direction of travel)**	Left	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
	Right	6	6	6	6	6	8	8	6	6	6	6	6	8	8	6
***Granular shoulder width (ft) (in the direction of travel)	Left	4	-	-	-	-	-	-	4	-	-	-	-	-	-	N/A
	Right	6	-	-	-	-	-	-	6	-	-	-	-	-	-	N/A
Curb type	Interstate	4-inch sloped							4-inch sloped							4-inch sloped
	Non-Interstate	4-inch sloped							6-inch sloped							N/A

*For radii less than 500 feet, refer to design widths of pavement for turning roadways in A Policy on Geometric Design of Highways and Streets
**Left and right shoulders widths may be reversed if needed to provide additional sight distance
***Non-Interstate interchanges only

Ramp Design Speed (mph) = 60,25(Loop)

Design Manual Section 1C-1
Last Updated: 04-29-19

Design Criteria for Ramps Based Upon Design Speed

Design Element			Preferred Criteria, Design Speed, mph: 25	30	35	40	45	50	55	60	Acceptable Criteria, Design Speed, mph: 25	30	35	40	45	50	55	60	Project Values
Stopping sight distance (ft) (Refer to Section 6D-1)			155	200	250	305	360	425	495	570	155	200	250	305	360	425	495	570	570, 155
Minimum horizontal curve radius (ft) and superelevation rate (Refer to Sections 2A-2 and 2A-3)	Method 2 superelevation and side friction distribution	e = 4% max	See Table 10 in Section 2A-3					--	--	--	--								N/A
	Method 5 superelevation and side friction distribution	e_{max} = 6%	144	231	340	485	643	833	1060	1330	144	231	340	485	643	833	1060	1330	1330, 144
		e_{max} = 8%	--	--	--	--	--	--	--	--	134	214	314	444	587	758	960	1200	N/A
Minimum vertical curve length (ft) (Refer to Section 2B-1)			75	90	105	120	135	150	165	180	75	90	105	120	135	150	165	180	180, 75
Minimum Rate of Vertical Curvature (Refer to Section 2B-1)	crest vertical curves		12	19	29	44	61	84	114	151	12	19	29	44	61	84	114	151	151, 12
	sag vertical curves	roadways without fixed-source lighting	26	37	49	64	79	96	115	136	26	37	49	64	79	96	115	136	136, 26
		roadways with fixed-source lighting	26	37	49	64	79	96	115	136	14	20	27	35	44	54	66	78	136, 26
Minimum gradient (%)	(Refer to Section 2B-1)		0.5								0.3% with a curb, 0.0% without a curb								0.5%
Maximum gradient (%) on ramps	(Refer to Sections 2B-1)	Upgrades	4								8	7	6	6	5	5	5	5	4%
		Downgrades									Equal to the maximum upgrade gradient. In special cases, may be 2% greater but in no case greater than 8%								5%
Clear zone			See "Preferred Clear Zone" table in Section 8A-2								See "Acceptable Clear Zone" table in Section 8A-2								32, 16

Ramp Design Speed (mph) = 60,25(Loop)

Design Manual Section 1C-1
Last Updated: 04-29-19

Design Speed for Ramps

Design Element	Ramp Type: Preferred, All curves near free flow terminals	Preferred, Diagonal, Curves near at-grade terminals	Preferred, Loop	Preferred, Semi-Directional	Preferred, Directional	Acceptable, All curves near free flow terminals	Acceptable, Diagonal, Curves near at-grade terminals	Acceptable, Loop	Acceptable, Semi-Directional	Acceptable, Directional	Project Values
Design speed (mph)	60	40	30	50	60	50	35	25	40	40	60, 25 (Loop)
Maximum superelevation rate (Refer to Section 2A-2 for details)	6%	4%	6%			8%					6%

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U.S. Highway 6 (Hickman Road) Design Criteria

Roadway	U.S. Highway 6 (Hickman Road)			
PIN Number	13-77-080-040-69		Submittal Date	08/09/21
Project Number	IM-080-4(69)125--13-77			Approval Date
District	District 1	Assistant District Engineer	Allison Smyth	
County	Polk	or		
Route	I-35/80	Office Director		
Location	I-35/80 Interchange			
Work Type	Unknown Pavement Grade and New			
Segment Manager				
Designer	Snyder & Associates, Inc.			

Design Manual Section 1C-1
Last Updated: 04-29-19

Urban Multilane Roadways (Urban Arterials)

Design Element		Preferred	Acceptable Criteria	Project Values
Design speed (mph)		The anticipated posted speed limit	30	45
Maximum superelevation rate (Refer to Section 2A-2)		4%	8%	4%
Design lane width (ft)		12	11	11', 14', 12'
Full depth paved width (ft)	Outside lane	Design lane width + curb and gutter unit or 12 feet for roadways with shoulders	Match design lane width	15', 17'
	Inside lane(s)	Design lane width + curb and gutter unit. 12' for roadways without a curb and gutter unit	Match design lane width	15', 17'
Right turn lane or an auxiliary lane (ft)		12	10	13'
Left turn lane (ft)	With raised or painted median	12 ft + median	10 ft + median	19'
	With depressed median	12	10	12'
Two-way left turn lane (ft)		14	11	N/A
Parking lane width (ft)		10	7	N/A
Pavement cross-slope (on tangent sections)	Through lanes	2%, However, when adjacent lanes slope in the same direction, increase slope by 0.5% per lane up to 3%	1.5% minimum, 3% maximum	2%
	Auxiliary and turn lanes	3%	3% maximum	3%
	Crown break at centerline	4%	4% maximum	4%
Shoulder cross-slope (on tangent sections)	Shoulders	4%	Shoulder cross-slope cannot be less than the adjacent lane, 6% max for paved or granular shoulders, 8% max for earth shoulders	N/A
	Curb and gutter units	Match pavement cross-slope	6% maximum	Pvmt Slope
	Parking lanes	1% greater than pavement cross-slope	6% maximum	N/A
Curb type (Refer to Section 3C-2)	Design speed ≤ 45 mph	6-inch standard	any shape	6-inch sloped
Foreslope (For fill areas greater than 40 ft, contact the Soils Design Section for assistance)	Adjacent to shoulder	10:1 for 4' then 6:1	3:1	N/A
	Beyond standard ditch depth and design clear zone	3.5:1	3:1	3:1
	Curbed roadways	2%	not steeper than 3:1	4%
Backslope (For cut areas greater than 25 feet, contact the Soils Design Section for assistance with backslope benches.)		3:1	2.5:1	3:1
Transverse Slopes	w/ drainage structures	8:1	6:1	8:1
	w/o drainage structures	10:1	6:1	10:1
Ditches (Refer to Section 3G-1)	Outside ditch (depth x width) (ft)	5 x 10	–	Varies
Median width (ft) (Refer to Section 3E-1)		See Section 3E-1	0	Varies, 4' Min
Bridge width—new*	Bridge length ≤ 200 ft	design lane widths + effective shoulder widths or design lane width + 3 ft each side in curb and gutter section	design lane widths + effective shoulder widths or curb-to-curb width in curb and gutter section**	N/A
	Bridge length > 200 ft	design lane widths + effective shoulder widths or design lane width + 3 ft each side in curb and gutter section	design lane widths + 4 ft offset each side for roadways with shoulders or curb-to-curb width in curb and gutter section**	N/A
Bridge width—existing*		design lane widths + no less than 2 ft left and right	design lane widths + 2 ft left and right of the design widths	N/A
Vertical clearance (ft) (above lanes, shoulders and 25 feet left and right of the center of railroad tracks)	Over primary	16.5	16	16.5'
	Over non-primary	16.5 at interchange locations, 15 at all other locations	14	N/A
	Over railroad	23.3	23.3	N/A
	Sign truss and pedestrian crossings	17.5	17	17.5'
Structural Capacity		Contact Office of Bridges and Structures	Contact Office of Bridges and Structures	N/A
Level of Service		C	D	C

*FHWA notification via email is required if acceptable criteria is not met on the NHS system (No formal design exception required)
** If travel lanes are less than 12 ft wide contact the Methods Section for assistance.

Design year ADT =	60000

Design Manual Section 1C-1
Last Updated: 04-29-19

Effective Shoulder Width and Type for Multilane Arterials

Preferred (Values shown in feet)					Acceptable (Values shown in feet)					Project Values
	Rural Roadways		Urban Roadways			Rural Roadways		Urban Roadways		
Auxiliary lanes or turn lanes with shoulders	6		6		Auxiliary lanes or turn lanes with shoulders	6		0		0'
Turn lanes with curbs	6		See Section 3C-2		Turn lanes with curbs	6		0		C&G Section
Expressways	Outside Effective Shoulder Width	Paved Width	Median Side Effective Shoulder Width	Paved Width	Expressways	Outside Effective Shoulder Width	Paved Width	Median Side Effective Shoulder Width	Paved Width	
Routes where bicycles are to be accommodated	10	10	6	6	Routes where bicycles are to be accommodated	8	4	4	4	3' Curb and Guter Section
On roadways approaching urban areas (due to increased bike traffic)	10	10	6	6						
On all curves with a superelevation rate of 7.0% or greater	10	10	6	6	On all other Expressways (Multilane Arterials)	8	0*	4	4	
On roadways with design year ADT > 6500 vpd	10	6	6	6						
On all other Expressways (Multilane Arterials)	10	6	6	6						

*Requires safety edge-See Section 3C-6
Curbs should be located beyond the outer edge of the effective shoulder width in rural areas
Refer to Section 3C-2 for curb offsets in urban areas

Roadway Design Speed (mph) =	45, 35 in DDI

Design Manual Section 1C-1
Last Updated: 05-26-17

Design Criteria for Low Speed Roadways

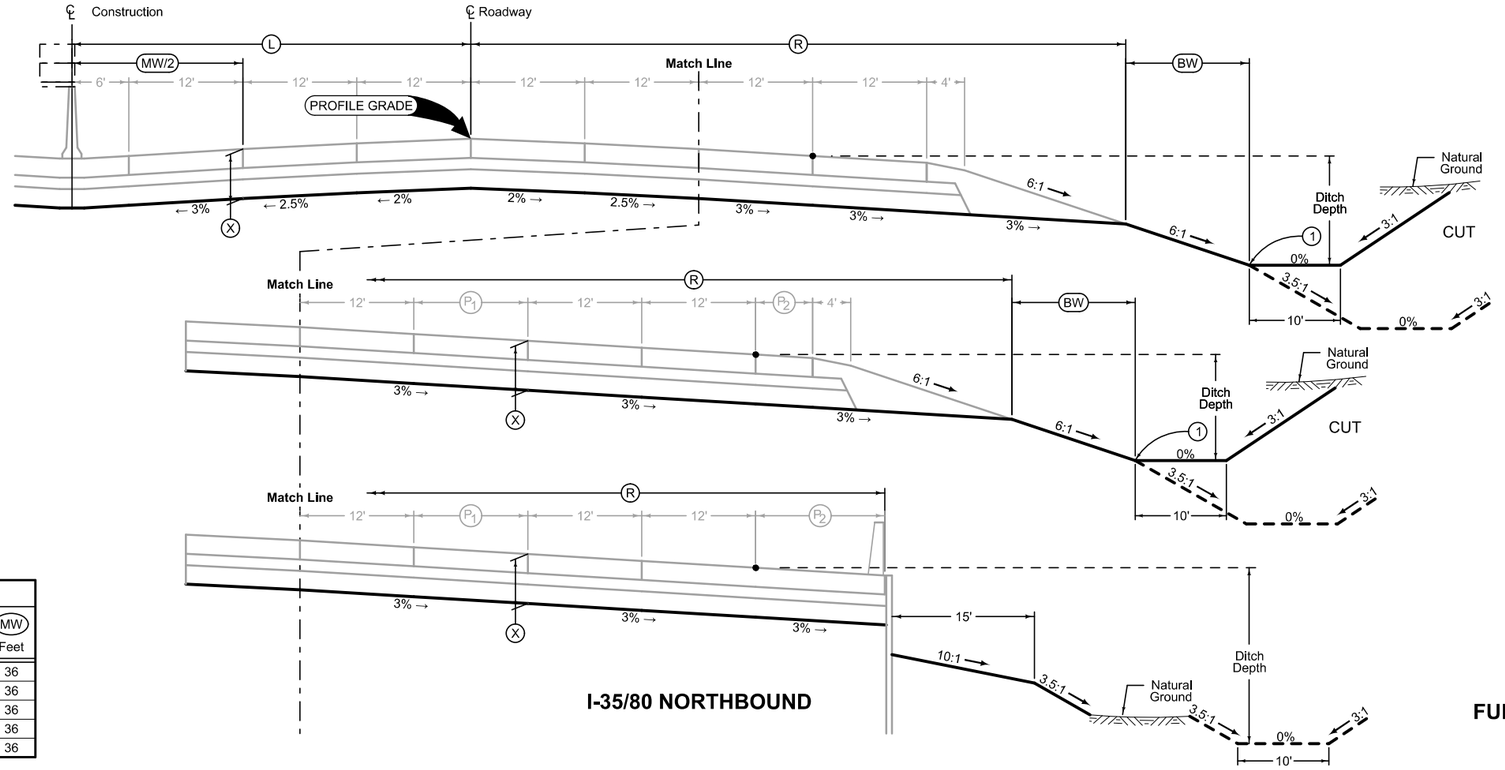
Design Element			Preferred Criteria Design Speed, mph					Acceptable Criteria Design Speed, mph					Project Values
			25	30	35	40	45	25	30	35	40	45	
Stopping sight distance (ft) (Refer to Section 6D-1)			155	200	250	305	360	155	200	250	305	360	360
Minimum horizontal curve radius (ft) and superelevation rate (Refer to Sections 2A-2 and 2A-3)	Method 2 superelevation and side friction distribution	e = 4% max	See Table 10 in Section 2A-3					--					503'
	Method 5 superelevation and side friction distribution	e_{max} = 6%	144	231	340	485	643	144	231	340	485	643	N/A
		e_{max} = 8%	--	--	--	--	--	134	214	314	444	587	N/A
Minimum vertical curve length (ft) (Refer to Section 2B-1)			75	90	105	120	135	75	90	105	120	135	135
Minimum rate of vertical curvature (K) (Refer to Section 2B-1)	crest vertical curves		12	19	29	44	61	12	19	29	44	61	61
	sag vertical curves	roadways without fixed-source lighting	26	37	49	64	79	26	37	49	64	79	79
		roadways with fixed-source lighting	26	37	49	64	79	14	20	27	35	44	79
Minimum gradient (%)	(Refer to Section 2B-1)		0.5					0.3% with a curb, 0.0% without a curb					0.5%
Maximum gradient (%)	(Refer to Section 2B-1)	Urban roadways	5					--	9	8	8	7	5%
		Rural roadways						--	--	--	6	6	N/A
Clear zone			See "Preferred Clear Zone" table in Section 8A-2					See "Acceptable Clear Zone" table in Section 8A-2					22', 18'

G_8_Grade_Closed
MODIFIED

Normal section shown may be modified appropriately in areas of superelevated curves or other locations specifically designated by the Engineer.

See Plan & Profiles sheets and cross sections for additional details of ditches and backslopes.

(1) Refer to project plan and cross sections for specific location of foreslope change.

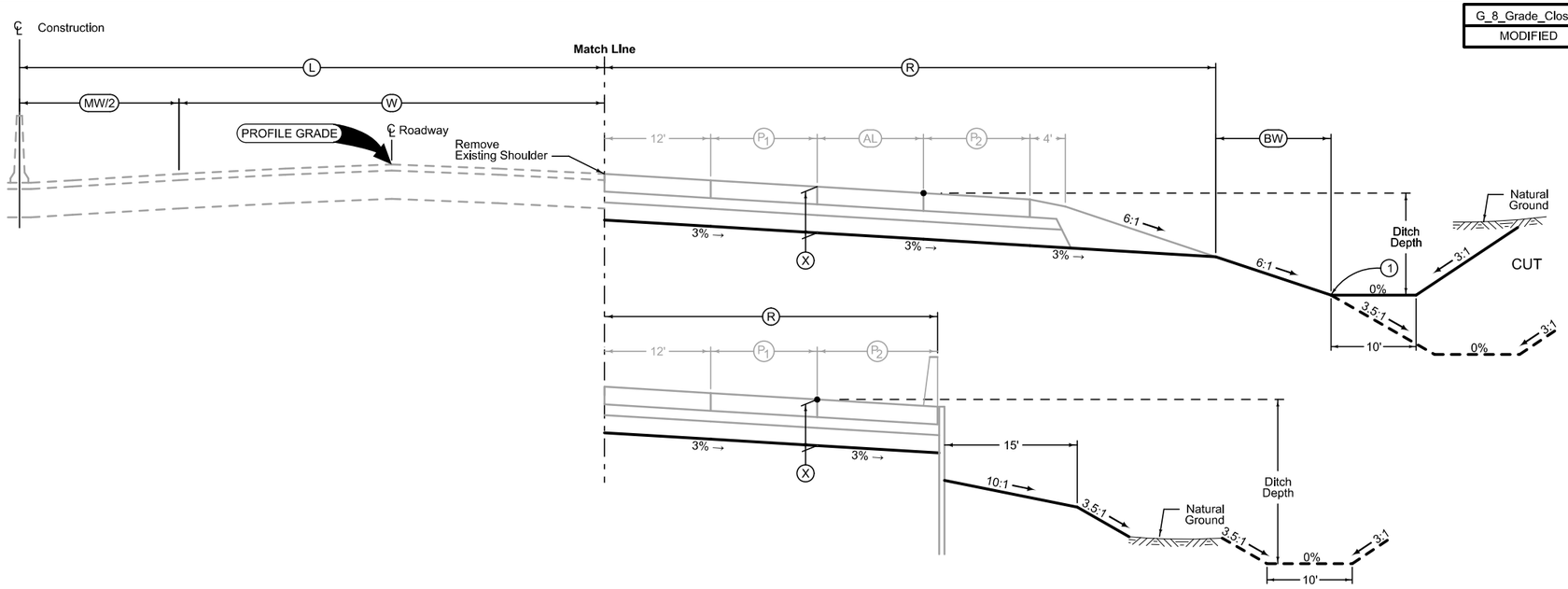


LOCATION				DIMENSIONS				
ROAD IDENTIFICATION	Direction of Travel	STATION TO STATION		(L) Feet	(R) Feet	(X) Inches	(BW) Feet	(MW) Feet
Interstate 35/80	NB	408+21.57	409+50.00	42	Var	30	N/A	36
Interstate 35/80	NB	409+50.00	417+00.00	42	68.25	30	1.75	36
Interstate 35/80	NB	417+00.00	418+34.10	42	91.58	30	N/A	36
Interstate 35/80	NB	420+70.81	423+65.33	42	91.58	30	N/A	36
Interstate 35/80	NB	423+65.33	434+00.00	42	68.25	30	1.75	36

MAINLINE GRADING
FULL REMOVE AND REPLACE
Interstate 35/80

LOCATION				DIMENSIONS				
ROAD IDENTIFICATION	Direction of Travel	STATION TO STATION		(L) Feet	(R) Feet	(X) Inches	(BW) Feet	(MW) Feet
Interstate 35/80	NB	371+52.00	377+45.00	70-66	45	30	1	36
Interstate 35/80	NB	377+45.00	380+75.00	66	77-57	30	1	36
Interstate 35/80	NB	380+75.00	398+00.00	66	57	30	1	36
Interstate 35/80	NB	429+07.75	435+98.00	54	92-72	30	x	36
Interstate 35/80	NB	435+98.00	441+68.00	66	60-57	30	x	36
Interstate 35/80	NB	441+68.00	446+19.00	66	57	30	x	36
Interstate 35/80	NB	446+19.00	451+13.00	54	69	30	x	36
Interstate 35/80	NB	451+13.00	457+12.50	54	69-103	30	x	36
Interstate 35/80	NB	457+12.50	469+91.00	54	57	30	x	36

LOCATION				DIMENSIONS				
ROAD IDENTIFICATION	Direction of Travel	STATION TO STATION		(L) Feet	(R) Feet	(X) Inches	(BW) Feet	(MW) Feet
Interstate 35/80	NB	398+00.00	404+12.00	66	37.58	30	N/A	36



G_8_Grade_Closed
MODIFIED

MAINLINE GRADING
ADD ADDITIONAL LANES
Interstate 35/80

FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER B.1

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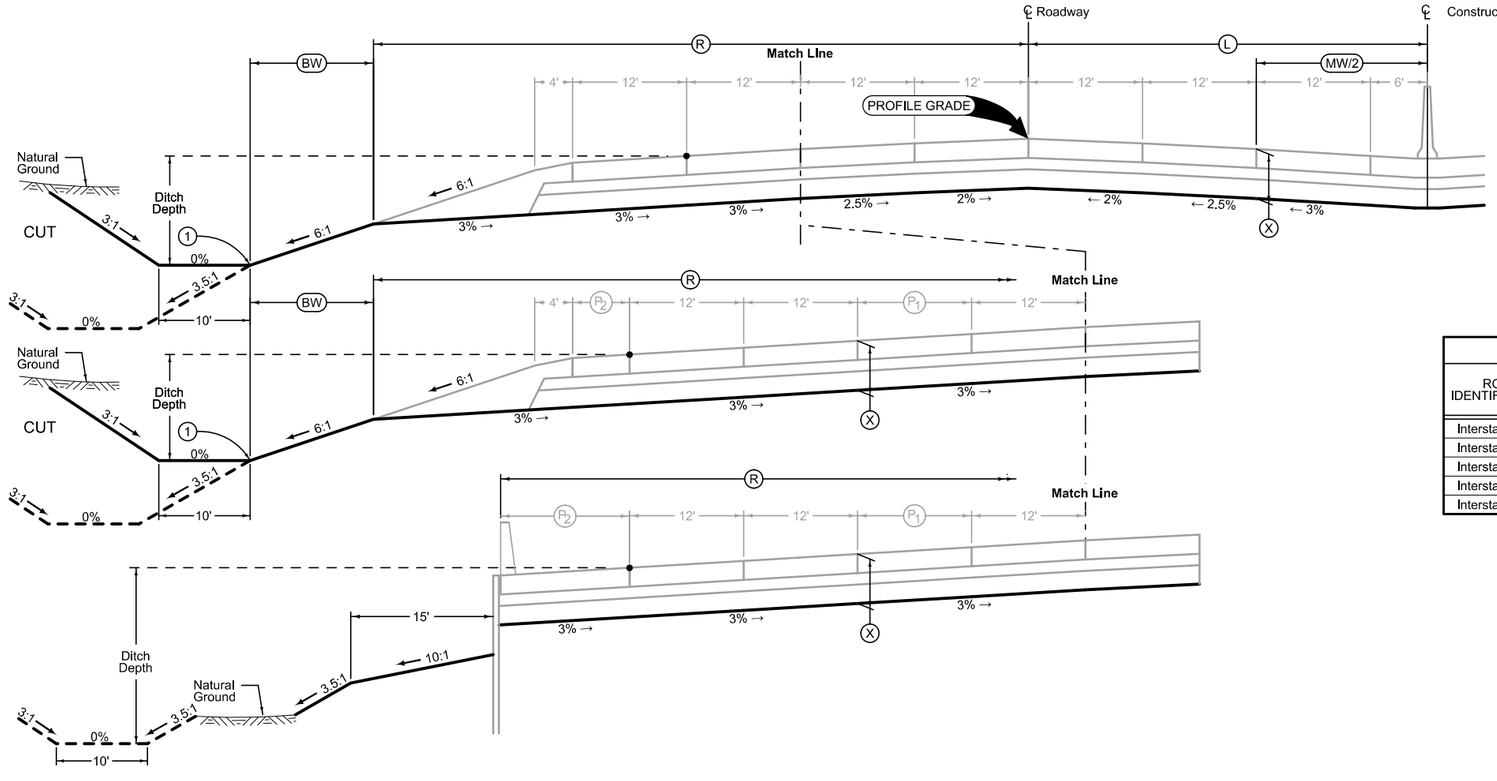


Normal section shown may be modified appropriately in areas of superelevated curves or other locations specifically designated by the Engineer.

See Plan & Profiles sheets and cross sections for additional details of ditches and backslopes.

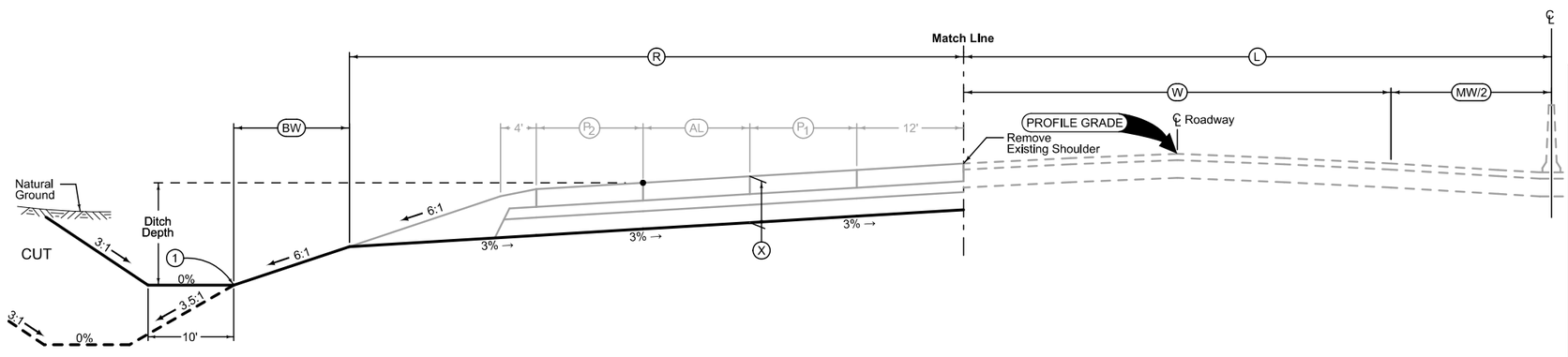
(1) Refer to project plan and cross sections for specific location of foreslope change.

LOCATION				DIMENSIONS				
ROAD IDENTIFICATION	Direction of Travel	STATION TO STATION		(L) Feet	(R) Feet	(X) Inches	(BW) Feet	(MW) Feet
Interstate 35/80	SB	408+21.57	408+40.48	42	Var	30	N/A	36
Interstate 35/80	SB	408+40.48	417+00.00	42	68.25	30	1.75	36
Interstate 35/80	SB	417+00.00	418+34.10	42	91.58	30	N/A	36
Interstate 35/80	SB	420+70.81	423+63.95	42	91.58	30	N/A	36
Interstate 35/80	SB	423+63.95	434+00.00	42	68.25	30	1.75	36

I-35/80 SOUTHBOUND

MAINLINE GRADING
FULL REMOVE AND REPLACE
Interstate 35/80

G_8_Grade_Closed
MODIFIED



LOCATION				DIMENSIONS				
ROAD IDENTIFICATION	Direction of Travel	STATION TO STATION		(L) Feet	(R) Feet	(X) Inches	(BW) Feet	(MW) Feet
Interstate 35/80	SB	371+52.00	383+91.00	54	57	30	x	36
Interstate 35/80	SB	383+91.00	389+01.00	54	103-69	30	x	36
Interstate 35/80	SB	389+01.00	396+13.00	54	69	30	x	36
Interstate 35/80	SB	396+13.00	401+10.00	66	57	30	x	36
Interstate 35/80	SB	401+10.00	404+10.50	66	57-63	30	x	36
Interstate 35/80	SB	429+07.75	430+13.00	54	57	30	x	36
Interstate 35/80	SB	430+13.00	435+25.00	54	103-69	30	x	36
Interstate 35/80	SB	435+25.00	437+28.50	54	69	30	x	36
Interstate 35/80	SB	437+28.50	451+78.50	66	57	30	x	36
Interstate 35/80	SB	451+78.50	455+97.50	54	69	30	x	36
Interstate 35/80	SB	455+97.50	459+27.00	54	69-89	30	x	36
Interstate 35/80	SB	459+27.00	462+27.00	54	51-63	30	x	36
Interstate 35/80	SB	462+27.00	471+27.00	54	63	30	x	36
Interstate 35/80	SB	471+27.00	476+02.00	54	63-91	30	x	36

I-35/80 SOUTHBOUND

MAINLINE GRADING
ADD ADDITIONAL LANES
Interstate 35/80

LOCATION				DIMENSIONS					
INTERCHANGE	RAMP	STATION TO STATION		(L) Feet	(R) Feet	(C) Feet	(X) Inches	(BW_L) Feet	(BW_R) Feet
University Avenue	A	1368+26.62	1382+75.00	42	20	24	22	14	12
University Avenue	D	2372+60.77	2377+16.00	34	21	16	22	14	11
Hickman Road	A	3422+17.00	3423+04.31	54	31.5	24	22	4	2.5
Hickman Road	A	3423+04.31	3424+84.31	47	25	24	22	10	8
Hickman Road	A	3424+84.31	3426+49.22	42	19	24	22	14	13
Hickman Road	A	3426+49.22	3429+53.98	41	10	24	22	15	22
Hickman Road	A	3429+53.98	3432+00.00	37	19	24	22	0	13
Hickman Road	B	4409+50.00	4414+25.97	42	14	24	22	0	0
Hickman Road	B	4414+25.97	4416+06.00	50	22	24	22	0	0
Hickman Road	B	4416+06.00	4417+63.22	54	26	24	22	4	0
Hickman Road	C	5408+41.80	5409+08.97	22	8	12	22	0	0
Hickman Road	C	5409+08.97	5409+68.73	24	13	12	22	0	0
Hickman Road	C	5409+68.73	5414+48.97	30	19	12	22	14	0
Hickman Road	C	5414+48.97	5416+00.00	38	30	12	22	6	14
Hickman Road	D	6423+15.00	6427+12.27	30	22	12	22	14	0
Hickman Road	D	6427+12.27	6432+19.65	30	12	12	22	0	0
Hickman Road	D	6432+19.65	6432+52.27	26	21	12	22	0	11
Hickman Road	D	6432+52.27	6433+90.47	23	20	12	22	0	12
Douglas Avenue	B	7457+25.00	7463+48.69	42	20	24	22	14	12
Douglas Avenue	C	8459.11.41	8466+89.46	34	20	16	22	14	12
Douglas Avenue	E	9475+99.00	9482+60.47	35	18	18	22	0	0
Douglas Avenue	F	10459+44.12	10467+49.00	35	18	18	22	0	0

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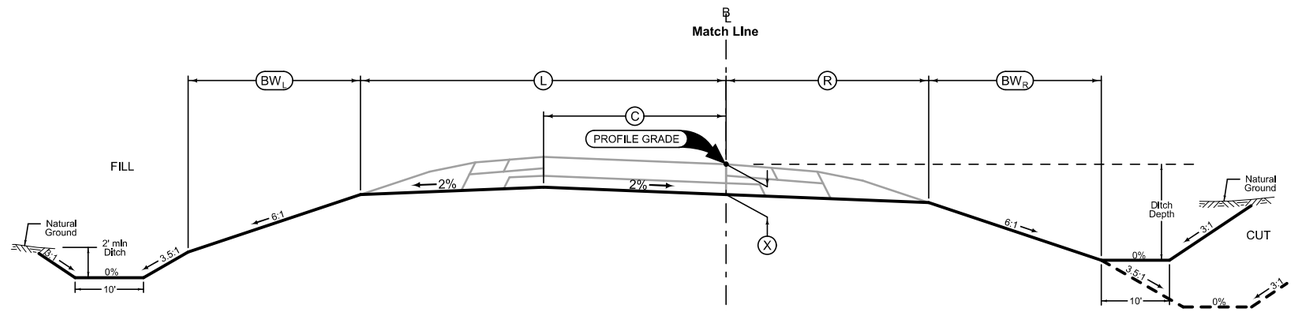
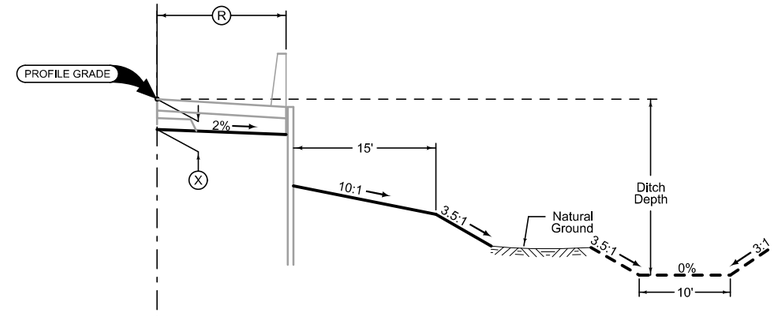
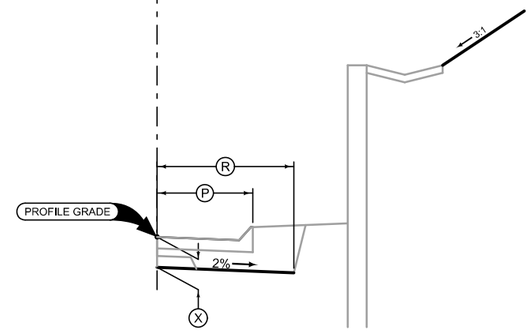


Section view is in direction of traffic.

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





RAMP GRADING

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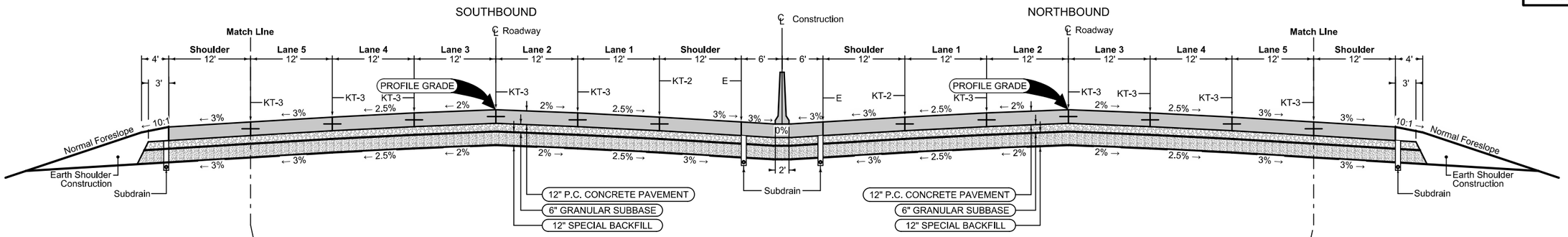
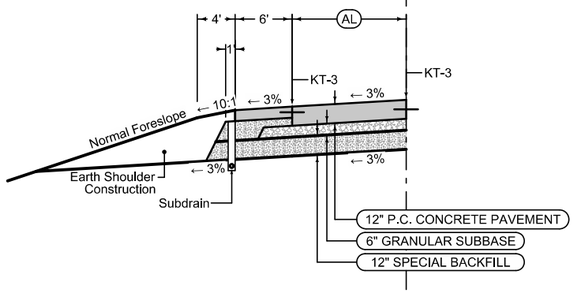


Full Depth PCC

Mainline Jointing:
Transverse joints: CD at 17' spacing

Direction of Travel	BEGIN STATION	END STATION
SB	408+43.00	417+00.00
SB	423+63.95	433+00.00
NB	409+50.00	417+00.00
NB	423+65.33	433+89.85



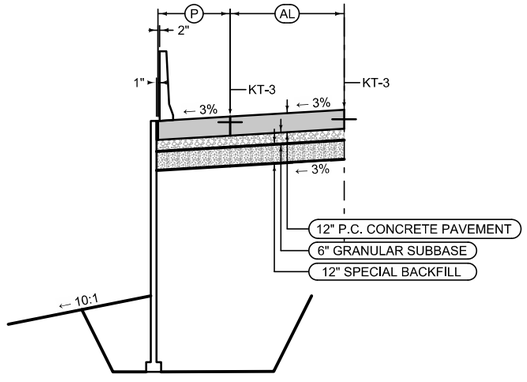
Full Depth PCC

Mainline Jointing:
Transverse joints: CD at 17' spacing

Auxillary Lane Jointing:
Transverse joints: Match Mainline

Shoulder Jointing:
Longitudinal joint: BT-2, L-2 or KT-2
Transverse joints: C at 17' spacing

Direction of Travel	BEGIN STATION	END STATION	AL Feet
SB	433+00.00	434+00.00	52-45.33
NB	433+89.85	434+00.00	36.19-34.63



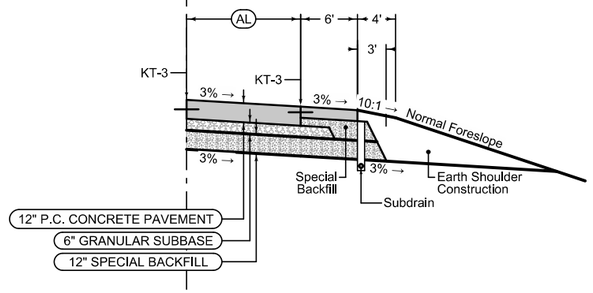
Full Depth PCC

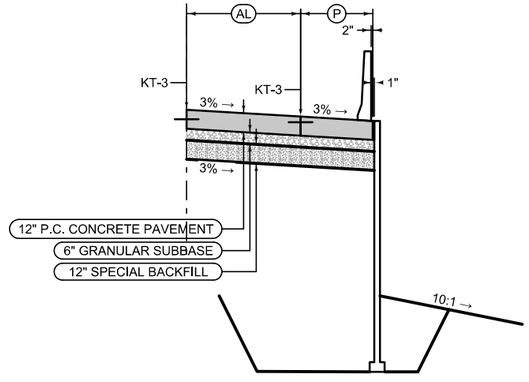
Mainline Jointing:
Transverse joints: CD at 17' spacing

Auxillary Lane Jointing:
Transverse joints: Match Mainline

Shoulder Jointing:
Longitudinal joint: BT-2, L-2 or KT-2
Transverse joints: C at 17' spacing

Direction of Travel	BEGIN STATION	END STATION	AL Feet	P Feet
SB	408+21.57	408+43.00	34.11-37.44	7.58
SB	417+00.00	418+34.10	0	13.58
SB	420+70.81	423+63.95	0	13.58
NB	408+21.57	409+50.00	43.44-52.00	7.58-13.36
NB	417+00.00	418+34.10	0	13.58
NB	420+70.81	423+65.33	0	13.58





MAINLINE PAVING
FULL REMOVE AND REPLACE
Interstate 35/80

FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER B.4

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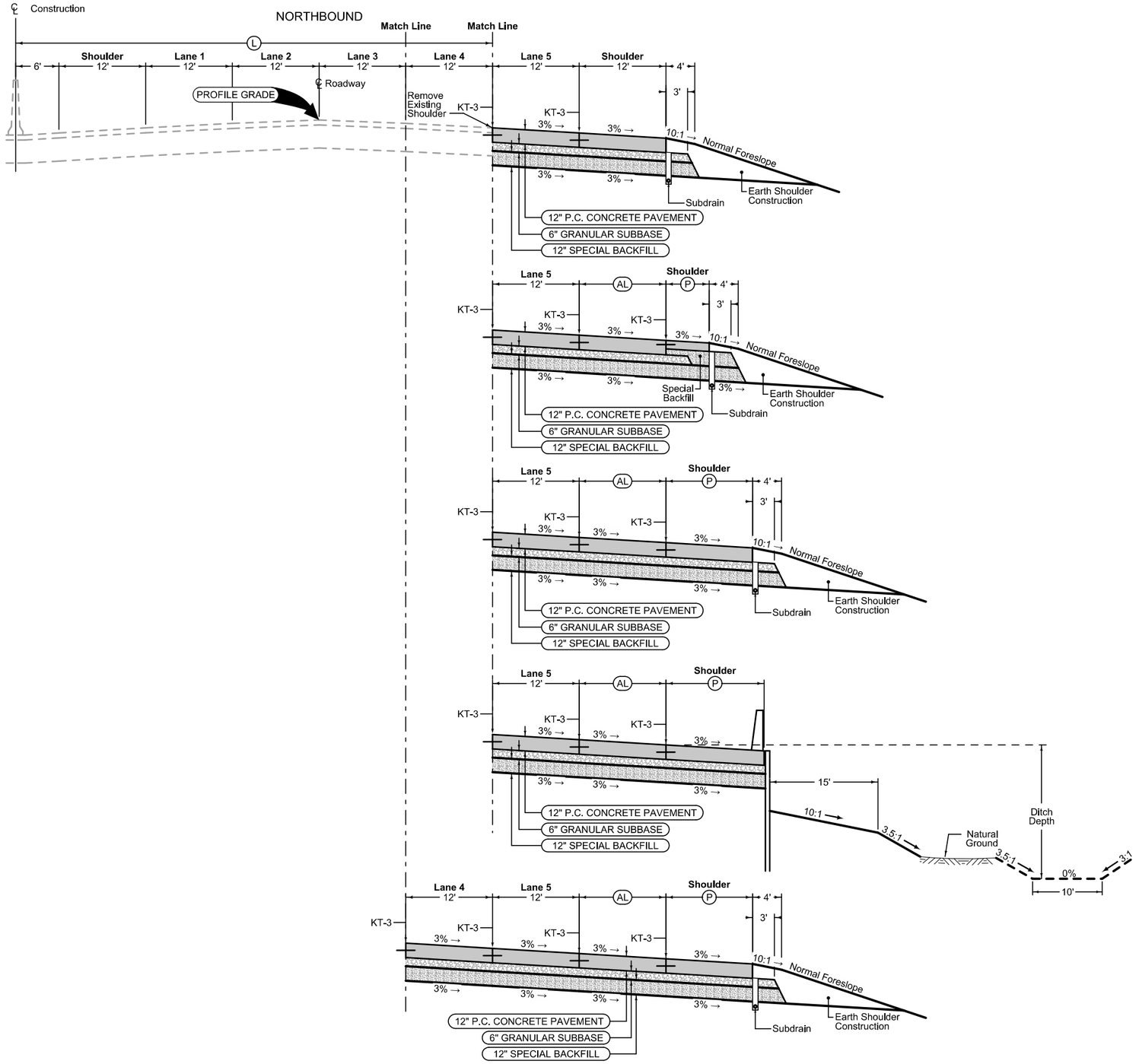


Mainline Jointing:
Transverse joints: CD Match Existing (17' Max. spacing)

BEGIN STATION	END STATION
371+52.00	377+16.67

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

BEGIN STATION	END STATION	(AL) Feet	(P) Feet
377+16.67	378+72.25	36.19-17.98	6

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

BEGIN STATION	END STATION	(AL) Feet	(P) Feet
378+72.25	380+26.82	17.98-12.00	6-12
380+26.82	398+00.00	12.00	12
436+00.00	437+00.00	14.50-12.00	9.5-12
437+00.00	446+19.00	12.00	12
476+46.00	481+25.00	12.00	6
481+25.00	482+75.00	12.00-6	6
482+75.00	484+25.00	6-0	6-12

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

BEGIN STATION	END STATION	(AL) Feet	(P) Feet
398+00.00	404+12.00	12.00	12.58

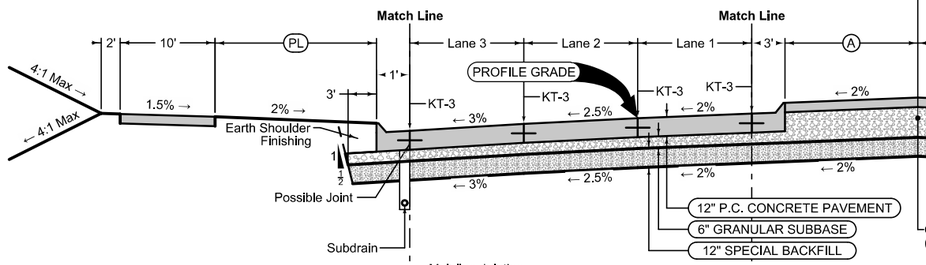
Mainline Jointing:
Transverse joints: CD Match Existing (17' Max. spacing)

BEGIN STATION	END STATION	(AL) Feet	(P) Feet
434+00.00	436+00.00	34.63-14.50	6-9.5
446+19.00	451+25.00	12	12
451+25.00	452+14.80	12-18	12-6
452+14.80	4547+25.00	18-52	6
457+25.00	467+50.00	0	12
467+50.00	472+25.00	39.83-12	6
472+25.00	476+46.00	12	6

MAINLINE PAVING
LANE WIDENING
Interstate 35/80

4DP_Raised Out
MODIFIED

WESTBOUND



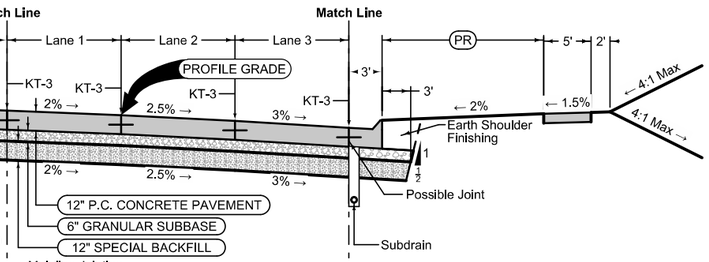
Mainline Jointing:
Transverse joints: CD at 17' spacing
Longitudinal joint: L-2

BEGIN STATION	END STATION	Aux Lane Feet	Lane 3 Feet	Lane 2 Feet	Lane 1 Feet
666+50.00	668+00.00	12	11	11	11
687+00.00	690+65.00	0	12	12	12

Construction

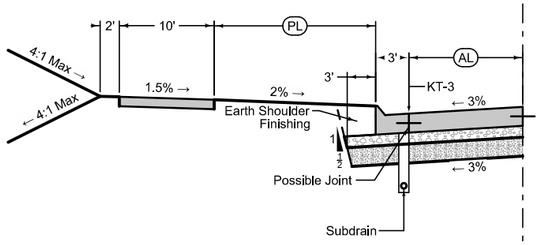
BEGIN STATION	END STATION	A Feet	B Feet
666+50.00	668+00.00	16	13
687+00.00	690+65.00	8	8

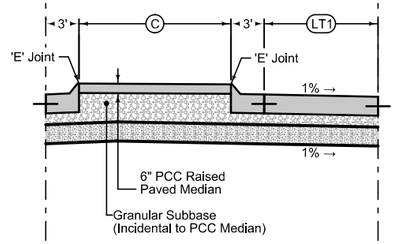
EASTBOUND



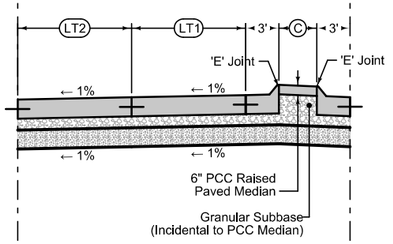
Mainline Jointing:
Transverse joints: CD at 17' spacing
Longitudinal joint: L-2

BEGIN STATION	END STATION	Lane 1 Feet	Lane 2 Feet	Lane 3 Feet	Aux Lane Feet
666+50.00	668+00.00	12	12	12	12
687+00.00	690+65.00	12	12	12	8-12

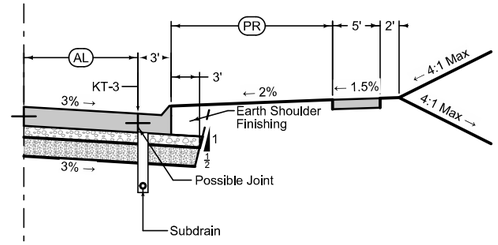


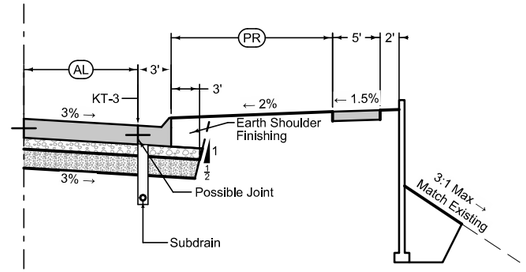


BEGIN STATION	END STATION	C Feet	LT1 Feet	LT2 Feet
687+00.00	688+62.83	16-4	0-12	0
688+62.83	690+65.00	4	12	0



BEGIN STATION	END STATION	C Feet	LT1 Feet	LT2 Feet
666+50.00	668+00.00	9-22	12-10	8-0
0	0	0	0	0



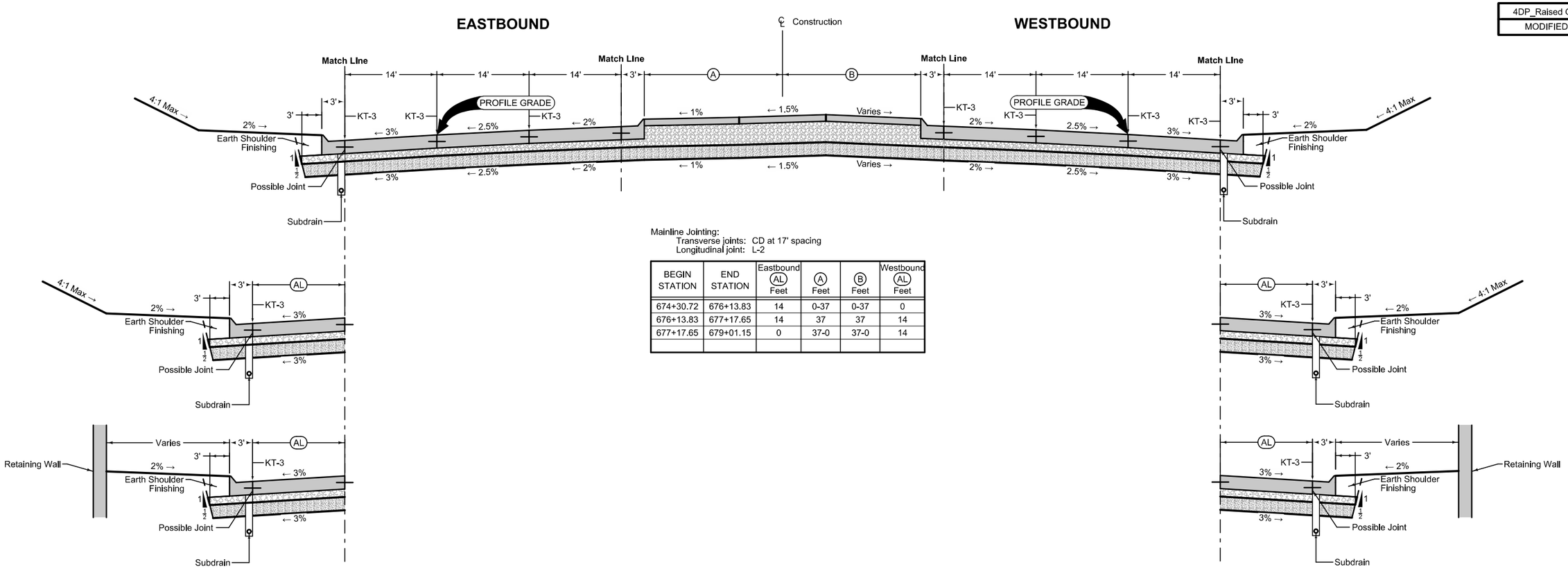


Hickman Road DDI
Normal Lane Direction

FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER B.6

8:00:56 AM 6/30/2022 mbeerends pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\7708006015\Design_(069)_PrelimDesign\CADD_Files\Sheet_Files\SHT_77080069Z08_B01.dgn

4DP_Raised Out
MODIFIED



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

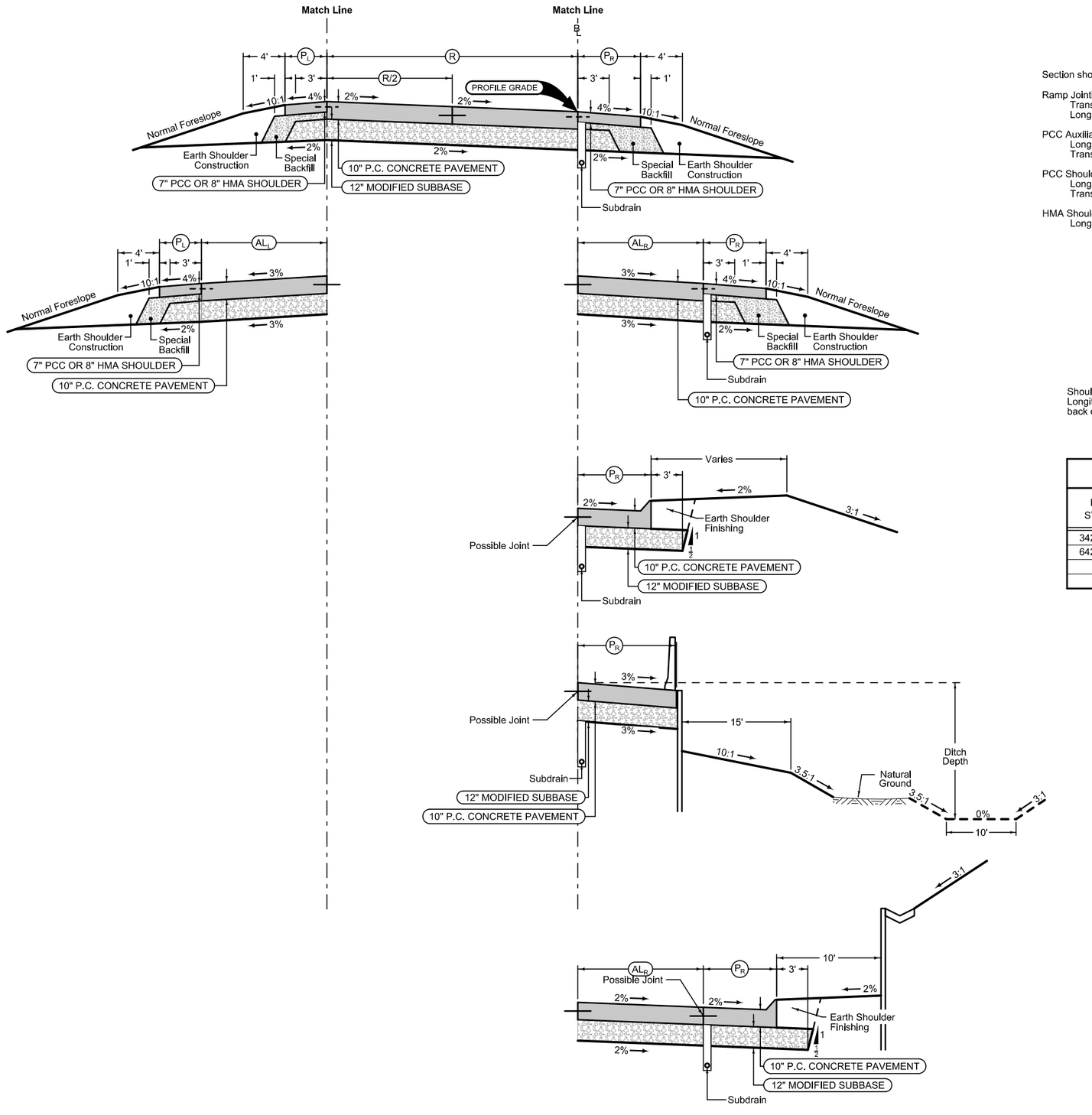
BEGIN STATION	END STATION	Eastbound (AL) Feet	(A) Feet	(B) Feet	Westbound (AL) Feet
674+30.72	676+13.83	14	0-37	0-37	0
676+13.83	677+17.65	14	37	37	14
677+17.65	679+01.15	0	37-0	37-0	14

Hickman Road DDI
Opposite Lane Direction

FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER B.7

5:08:03 PM 6/30/2022 mbeerends pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\7708006015\Design_(069)_PrelimDesign\CADD_Files\Sheet_Files\SHT_77080069Z08_B01.dgn

LOCATION				DIMENSIONS				
INTERCHANGE	RAMP	STATION TO STATION		(R) Feet	(P_L) Feet	(P_R) Feet	(AL_L) Feet	(AL_R) Feet
University Avenue	A	1368+26.62	1369+75.00	24	0	6	0	0
University Avenue	A	1369+75.00	1382+75.00	24	4	6	0	0
University Avenue	D	2372+60.77	2377+16.00	16	4	8	0	0
Hickman Road	A	3422+17.00	3423+04.31	24	4	6	12	12
Hickman Road	A	3423+04.31	3424+84.31	24	4	6	12-0	12-0
Hickman Road	A	3424+84.31	3426+49.22	24	4	6	0	0
Hickman Road	A	3426+49.22	3429+53.98	24	4	7	0	0
Hickman Road	A	3429+53.98	3432+00.00	24	4	6	0	0
Hickman Road	B	4409+50.00	4414+25.97	24	4	13.58	0	0
Hickman Road	B	4414+25.97	4416+06.00	24	4	13.58	0-12	0-12
Hickman Road	B	4416+06.00	4417+63.22	24	4	13.58	12	12
Hickman Road	C	5408+41.80	5409+08.97	12	4	7.58	0	0
Hickman Road	C	5409+08.97	5409+68.73	12	4	7.58-13.58	0	0-1.33
Hickman Road	C	5409+68.73	5414+48.97	12	4	13.58	0	1.33-12
Hickman Road	C	5414+48.97	5416+00.00	12	4	6	0	12
Hickman Road	D	6423+15.00	6427+12.27	12	4	7	0	12
Hickman Road	D	6427+12.27	6432+19.65	12	4	7	0	12-0.73
Hickman Road	D	6432+19.65	6432+52.27	12	4	6	0	0.73-0
Hickman Road	D	6432+52.27	6433+90.47	12	4	6	0	0
Douglas Avenue	B	7457+25.00	7463+48.69	24	4	6	0	0
Douglas Avenue	C	8459.11.41	8466+89.46	16	4	6	0	0
Douglas Avenue	E	9475+99.00	9482+60.47	18	4	6	0	0
Douglas Avenue	F	10459+44.12	10467+49.00	18	4	6	0	0



Section shown in the direction of traffic.

Ramp Jointing (2RP):
Transverse joints: CD at 17' spacing.
Longitudinal joint: L-2

PCC Auxiliary Lane Jointing (2_AuxLane_PCC):
Longitudinal joint: L or KT
Transverse joint: Match Mainline

PCC Shoulder Jointing (1R_P_ALT):
Longitudinal joint: BT-1 or BT-5
Transverse joints: C at 15' spacing

HMA Shoulder Jointing (1R_P_ALT):
Longitudinal joint: B

Curbed Shoulder

Shoulder jointing:
Longitudinal joint not required when distance from back of curb to nearest joint is less than 16':

Transverse: C at 17' spacing
Single pour: L-2
Staged : KT-2

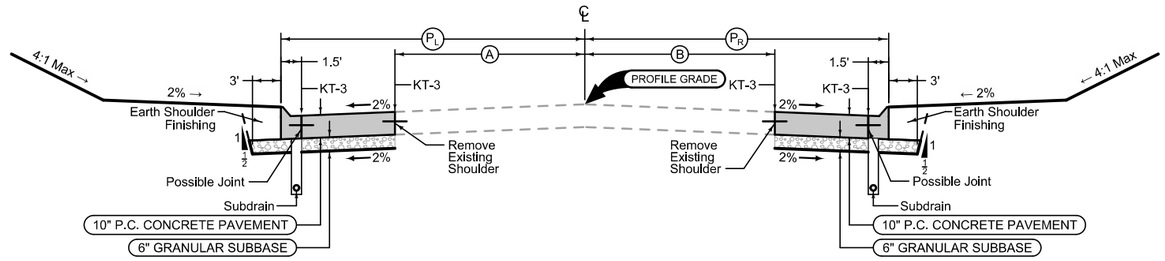
1R_Curb_
04-21-20

BEGIN STATION	END STATION	Curb Type See PV-102
3426+49.22	3429+53.98	6" Sloped
6423+15.00	6432+19.65	6" Sloped

Interchange Ramps

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

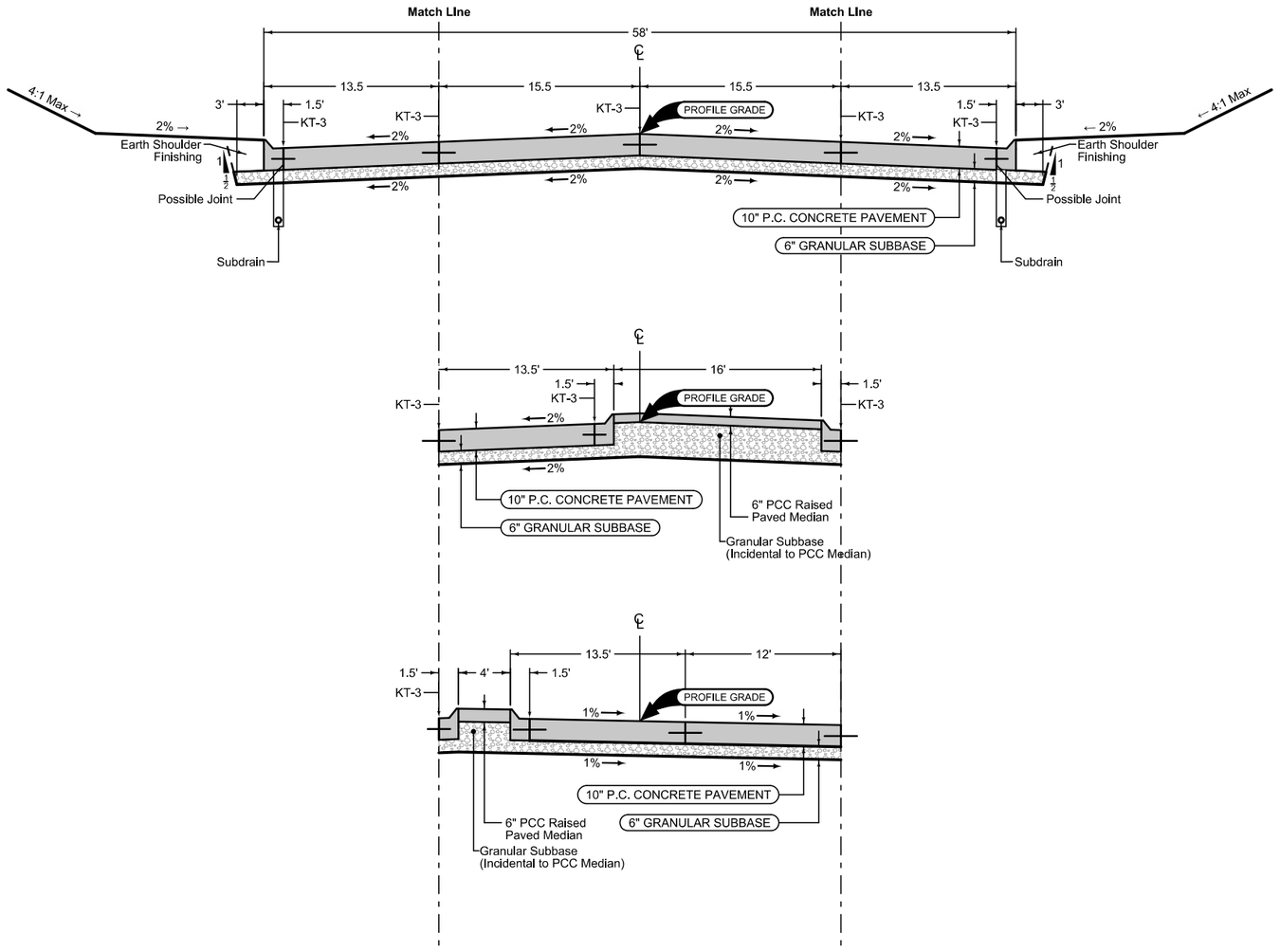
STATION TO STATION		(A) Feet	(P_L) Feet
1686+12.22	1687+76.00	16.46-16.87	3-27.71
1687+76.00	1688+03.24	3.50	27.71-29
1688+03.24	1688+29.70	3.50	29
1688+29.70	1690+20.00	0	29
1694+25.00	1695+73.00	19.27-13.88	30.78-15.38



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

STATION TO STATION		(B) Feet	(P_R) Feet
1686+60.70	1688+03.24	17.10-21	19.52-29
1688+03.24	1690+20.00	21	29
1694+25.00	1695+72.58	11.27-14.82	25-16.32

LANE WIDENING
NW 111th Street



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

2P_ 04-21-20	
STATION TO STATION	
1690+60.00	1690+80.00
1691+90.00	1692+21.50
1694+02.50	1694+25.00

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

2P_ 04-21-20	
STATION TO STATION	
1692+21.50	1694+02.50

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

2P_ 04-21-20	
STATION TO STATION	
1690+20.00	1690+60.00

NW 111th Street

DRAINAGE STRUCTURE BY ROAD CONTRACTOR

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

Drainage Area	Location	Type	Size (1)	Kind Of Pipe (2)	Length New Const.	Bedding Class	Design Cover (H)	Camber* (DR-102)	Apron No.		Apron Guard* (DR-213)	Elbow* (DR-141)	Diaphragm* (DR-501)	Tee Section* (DR-142)	"D" Section* (DR-141)	Reducer*	Type 'C' Connections* (DR-122)		Connected Pipe Joint* (DR-121)	4" Perforated Subdrain*	Flow Line Elevations				Dimensions Lin. Ft. Total		Dimensions Lin. Ft. Extensions		Skew Ahead Degrees		Dike				Class 20	Flowable Mortar	Floodable* Backfill (A)	Porous* Backfill (B)	Flooded Backfill (3) (A+B)	Remarks
																														Rt.									
ACRE			IN		LF		FT	FT	IN	OUT	No.	No.	No.	No.	No.	No.	Type	No.	Type	FT	Lt.	Rt.	Other	Other	Lt.	Rt.	Lt.	Rt.	Lt.	Rt.	Lt.	Location Station	Top Elevation	Type	CY	CY	CY	CY	CY	
209.3	1376+73.82	DR-601	78	RCP	24	B			1			2				1			Type 3			899.00	898.80	896.70	188.7	188.6			36											Slope tapered
			66	RCP	336	B	35.5			1						1			Type 3		891.25																		
	371+49.65	DR-621	18	RCP	18	B	2.0	0.08									C-1	1	Type 3			923.60	923.89			129.2		18.0											Rmv & reinst apron
	374+25.47	DR-621	18	RCP	22	B	2.0	0.08									C-1	1	Type 3			925.70	925.99			126.7		22.0											Rmv & reinst apron
	377+09.97	DR-621	24	RCP	14	B	2.0	0.08									C-1	1	Type 3		918.50		918.75		143.9		14.0											Rmv & reinst apron
	379+99.35	DR-621	18	RCP	8	B											C-1	1	Type 3		923.60		923.72		111.6		8.0											Extend to structure
	382+99.23	DR-621	18	RCP	56	B	2.3	0.08									C-1	1	Type 3		922.95		924.51		167.2		56.0											Rmv & reinst apron
	386+00.00	DR-621	18	RCP	36	B	2.0	0.08									C-1	1	Type 3			922.25	922.53			137.1		36.0											Rmv & reinst apron
	390+10.89	DR-621	24	RCP	32	B				1							C-1	1	Type 3			908.20	908.47			154.2		32.0											
	394+54.04	DR-621	18	RCP	26	B	2.0	0.08		1							C-1	1	Type 3		902.10		902.34		137.4		26.0											
	399+04.47	DR-621	18	RCP	28	B											C-1	1	Type 3		885.25		885.53		141.9		28.0											Rmv & reinst apron
	409+04.09	DR-621	24	RCP	32	B	4.7	0.08									C-1	1	Type 3			886.72	887.04			135.2		32.0											
	412+24.10	DR-621	18	RCP	14	B	6.5	0.17									C-1	1	Type 3		887.66		887.93		138.6		14.0											Rmv & reinst apron
	415+49.20	DR-621	18	RCP	56	B	7.5	0.17									C-1	1	Type 3		893.68		894.65		134.6		56.0											Rmv & reinst apron
	423+80.00	DR-601	18	RCP	154	B	12.4	0.25		1									Type 3		898.30	904.50			160.1													3000D pipe. Jack 84'
	427+99.24	DR-621	18	RCP	38	B	9.3	0.17		1							C-1	1	Type 3			908.00				142.9		38.0											
8.0	432+30.00	DR-601	36	RCP	276	B	6.4	0.17		1							C-1	1	Type 3		915.20		916.67		174.2	109.8				5									200' trenchless
		DR-601	36	LCP	60	B	2.0	0.08	1										Type 3			917.02				68.0				5	RT	6431+96.00	921.02	M						
	432+58.10	DR-621	24	RCP	54	B	2.3	0.08									C-1	1	Type 3		916.56		919.36		172.3		54.0											Rmv & reinst apron
	436+90.11	DR-621	15	RCP	18	B	2.6	0.08									C-1	1	Type 3			927.85	928.75			128.1		18.0											R & R apron; clean pip
	441+28.30	DR-621	24	RCP	22	B	3.0	0.08		1							C-1	1	Type 3		923.60		924.02		178.2		22.0											
	444+87.88	DR-621	18	RCP	50	B	7.4	0.17		1							C-1	1	Type 3		937.33		938.61		152.1		50.0											Field verify FL other
	448+99.20	DR-621	24	RCP	36	B	2.0	0.08									C-1	1	Type 3		951.90		952.34		139.5		36.0											Rmv & reinst apron
	453+49.24	DR-621	18	RCP	32	B	2.4	0.08									C-1	1	Type 3		961.00		961.38		137.5		32.0											R & R apron; clean pip
	457+99.76	DR-621	24	RCAP	14	B	2.4	0.08									C-1	1	Type 3			968.39	968.91			172.4		14.0											Rmv & reinst apron
	461+00.00	DR-621	18	RCP	22	B	3.7	0.08									C-1	1	Type 3		971.22		972.04		181.4		22.0											Rmv & reinst apron
	464+00.00	DR-621	18	LCP	26	B	2.0	0.08		1							C-1	1	Type 3		973.90		974.95		124.9		26.0											
	468+00.00	DR-621	18	LCP	28	B	2.0	0.08		1							C-1	1	Type 3		975.56		976.13		125.0		28.0											
9.6	5416+84.50	DR-601	30	RCP	218	B	12.4	0.25	1	1	1								Type 3		870.04	876.18			99.0	131.3				29										
	8463+55.87	DR-621	24	RCP	12	B											C-1	2	Type 3		972.10	973.03	973.33		37.5	52.4													
5.0	9478+85.24	DR-601	24	RCP	116	B	8.5	0.17	1	1	1								Type 3		975.10	973.82			57.0	71.2				27										
	10462+45.40	DR-621	36	RCP	56	B	13.9	0.25									C-1	1	Type 3			967.45	966.99			84.5		56.0	8										Rmv & reinst apron
3.9	10464+86.16	DR-601	24	RCP	130	B	12.8	0.25	1	1	1								Type 3		969.08	968.08			79.1	63.1													
1.4	1439+22.00	DR-601	15	PVC	22	B	3.9	0.08													923.65	924.56			21.0	21.0												Trail

110-2
04-16-13

REMOVAL OF EXISTING STRUCTURES

Location	Description	Remarks
1578+50 Ramp A University	10' x 5' headwalls, 5' x 5' x 201' barrel	Removal of tapered barrel section included
374+23.29	5' x 5' x 37' RCB, 41' flume	Flume is also 5' x 5'
441+02	14' x 12' RCB - Headwalls LT and RT	
442+96.22	12' x 12' RCB - Headwalls LT and RT	
667+00 U.S. 6	8' X 6' RCB - HW RT, HW + 24' barrel LT	Also remove intake over box (see Tab. 110-15 for info)
672+40.22 U.S. 6	4' x 5.75' RCB - Remove	

110-14
MODIFIED

SANITARY OR STORM SEWER ABANDONMENT OR REMOVAL

* Not a bid item

Location/Description	Sanitary or Storm Sewer	Abandonment, Plug Only or Abandonment, Plug and Fill or Removal	Length of Pipe - Removal		Length of pipe - abandonment	Fill Mat'l*	Remarks
			≤ 36 inch diameter	> 36 inch diameter		Flowable Mortar or CLSM	
			LF	LF	LF	CY	
374+58 LT - 30" RCP	Storm Sewer	Abandonment, Plug and Fill	31.0		8.0		Pipe tees into RCB
423+99.80 SBL - 18" RCP	Storm Sewer	Abandonment, Plug and Fill			90.0		Remove FES
432+01.47 - 30" RCP / 30" EQ RCAP	Storm Sewer	Abandonment, Plug and Fill	60.0		186.0		Remove 36' pipe and FES LT and 24' pipe and FES RT
398+00 - 399+80 RT - 24" CMP ditch letdown	Storm Sewer	Removal	174.0				Remove 2 FES
402+03.80 RT - 24" CMP letdown	Storm Sewer	Removal	70.0				Remove FES
409+04.09 NBL - 24" CMP letdown	Storm Sewer	Removal	104.0				Remove FES
1515+54 Existing Hickman Ramp A - 24" RCP	Storm Sewer	Removal	165.0				Remove 2 FES
2517+75 Existing Hickman Ramp B - 24" RCP	Storm Sewer	Removal	155.0				Remove 2 FES
6420+33.6 LT Existing Hickman Ramp D - 24" RCP	Storm Sewer	Removal	56.0				
6420+33.6 RT Existing Hickman Ramp D - 24" RCP	Storm Sewer	Removal	35.0				
423+99.80 LT - 18" RCP Median Drain	Storm Sewer	Removal	28.0				
442+00 - 443+06 LT - 24" CMP ditch letdown	Storm Sewer	Removal	120.0				Remove 1 FES
443+09 - 443+80 RT - 24" CMP ditch letdown	Storm Sewer	Removal	76.0				Remove 1 FES
444+87.60 LT - 18" CMP letdown	Storm Sewer	Removal	95.0				Remove 1 FES
476+00 LT - 18" RCP	Storm Sewer	Removal	8.0				Remove 1 FES
8463+55 Douglas Ramp C - 24" RCP	Storm Sewer	Removal	6.0				Remove pipe from RT side
Existing Douglas Loop E - 24" EQ LCP	Storm Sewer	Removal	60.0				Remove 2 FES
Existing Douglas Loop E / Trail - 24" RCP	Storm Sewer	Removal	94.0				
Existing Douglas Loop F - 24" RCP	Storm Sewer	Removal	120.0				Remove 2 FES
658+63 - 661+89 LT Hickman - 15" RCP	Storm Sewer	Removal	323.0				
675+11 LT Hickman, median to LT ditch - 24" RCP	Storm Sewer	Removal	66.0				Remove 1 FES
675+11 RT Hickman, median to RT ditch - 24" RCP	Storm Sewer	Removal	70.0				Remove 1 FES
678+70 MED Hickman - 24" RCP	Storm Sewer	Removal	11.0				
678+70 RT Hickman, median to RT ditch - 24" RCP	Storm Sewer	Removal	62.0				Remove 1 FES
680+76 MED Hickman - 24" RCP	Storm Sewer	Removal	12.0				
680+76 LT Hickman, median to LT ditch - 24" RCP	Storm Sewer	Removal					(Outlet not located)
682+82 MED Hickman - 15" RCP	Storm Sewer	Removal	12.0				
682+81 RT Hickman, median to RT ditch - 18" RCP	Storm Sewer	Removal	63.0				
687+75 RT Hickman - 24" RCP	Storm Sewer	Removal	16.0				Remove 1 FES
1690+55 RT 111th - 18" RCP	Storm Sewer	Removal	22.0				Remove 1 FES
1690+55 111th - Between intakes - 18" RCP	Storm Sewer	Removal	59.0				
1690+55 LT 111th - 18" RCP	Storm Sewer	Removal	29.0				Remove 1 FES
1439+31 LHF Trail	Storm Sewer	Removal	49.0				CMP

110-15
04-16-13

REMOVAL OF INTAKES AND UTILITY ACCESSES

No.	Location/Description	Type	Remarks
1	374+58 LT, area intake	Intakes	In ramp infield
2	658+62.6, 50' LT Hickman	Intakes	
3	661+88, 44.5' LT Hickman	Intakes	
4	667+00.8, 45.7' LT Hickman	Intakes	Tees in RCB
5	675+10.27, 19.7' RT Hickman	Intakes	
6	675+10.00, 13.5' RT Hickman	Intakes	
7	678+70.37, 19.1' RT Hickman	Intakes	
8	678+70.22, 32.1' RT Hickman	Intakes	
9	6420+33.70, 41.5' LT Ex. Ramp D	Intakes	
10	680+76.40, 41.6' RT Hickman	Intakes	
11	680+76.60, 26.9' RT Hickman	Intakes	
12	683+81.24, 8.8' RT Hickman	Intakes	
13	683+81.77, 23.7' RT Hickman	Intakes	
14	687+75.80, 36.6' RT Hickman	Intakes	includes intake extension (12'?)
15	1690+55.13, 37.5' LT	Intakes	
16	1690+55.00, 23.2' RT	Intakes	
17	1693+10.00, 26.1' LT	Intakes	
18	1693+10.50, 9.9' RT	Intakes	

ACCESS POINTS AND SAFETY RAMPS

Refer to Cross-Sections

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

Location		Type	Length of Opening (1)			W	(1) (2) PR	(2) SR	Pipe Culvert (3)					Aprons	Driveway Surface Area		Driveway Surfacing Material	Remarks
Station	Side	A, B, C, Safety Ramp, or Predetermined*	Case	1½" Dropped Curb	3" Dropped Curb				H	Size	Pipe Length	Lt.	Rt.		HMA	PCC		
			1 or 2	LF	LF	FT	FT	FT	FT	IN	LF	LF	LF	No.	SY	SY	TON	
655+43.30	LT	A	1			37.0	38/40											U.A.C Existing Access
655+53.93	RT	B	1			46.0	24/26											U.A.C Existing Access
663+26.04	LT	A	1			67.0	55.0											Lifetime Fitness
663+26.04	RT	A	1			80.0	55.0											Love's / Menards
1687+81.13	RT	B	1			27.7	20.0											Commercial Development
1687+84.26	LT	B	1			24.0	15.0											Car City West
1688+78.45	LT	B	1			25.0	15.0											Car City West
1690+09.24	RT	B	1			31.0	20.0											Frontage Road
1694+83.45	LT	B	1			30.0	15/25											Machine Shed
1696+31.52	LT	B	1			25.0	25.0											Living History Farms

SURVEY SYMBOLS

- CP Control Point
- FENO FENO Monument
- BM Bench Mark
- WC Wild Card (Misc. Field Shot)
- BL Topo Breakline
- GR Ground Shot
- CON Concrete or A/C Slab
- EW Edge of Water
- C Centerline BL of Road (ML or SR)
- BLS Bridge Low Steel
- TOP Top of Bridge Pier
- GU Gutter In Front of Curb
- CU Back of Curb
- EP Edge of Paved Roads (ML or SR)
- GDL Guard Rail Steel
- RET Retaining Walls
- PRO Profile Shot
- BRG Bridge
- BD Bridge Deck
- CUL Culvert
- PLG Location of General Photo
- MH Utility Access (Manhole)
- IN Storm Sewer Intake
- MIS Miscellaneous
- BLD Building or Foundation
- TDC Tree Deciduous
- SWK Sidewalk
- TLNL Tree Line Left
- LUM Luminaire
- PIP Pipe Culvert
- SNP Unpaved Shoulder
- WEL Well
- DU Centerline Draw or Stream (Up)
- PR Electic Riser Pole
- PPA Power Pole Co. 1
- TA TA Tower Anchor
- EG Edge of Gravel Road
- UV Underground Utility Vault
- TLNR Tree Line Right
- D Centerline Draw or Stream (Down)
- FW Wire Fence
- SI SIGN SI Sign
- RIP Rip-Rap
- WV WV Water Valve
- FHD Fire Hydrants
- TVP TVP TV Pedestal
- EB EB Electrical Box
- SHR Shrub
- TSG Traffic Signal
- TCB TCB Traffic Signal Box
- BB BB Billboard
- UB UB Utility Box
- STP Stump
- TEV Evergeen Tree
- GP GP Guard Post (Less Than 4 Posts)
- GV GV Gas Valve
- TFR Tree Fruit
- WH WHD Water Hydrant
- GPR Guard Post (4 or More Posts)
- WHU WHU RV Water Hook Up
- FCL Chain Link and Security Fence
- FLG Flg Flag Poles
- TSL Traffic Signal and Luminare
- LIN Miscellaneous Line
- BNK Stream Bank
- SL SIGN SL Speed Limit Sign
- TPD TP Telephone Pedestal
- PCP Photo Control Point
- INB Storm Sewer Beehive Intake
- FWD Wood Fence
- UE Utility Elevation

- E1 – EL1D Electric Co. 1 - Quality D
- FO – FO1D Fiber Optic Co. 1 - Quality D
- FO2 – FO2D Fiber Optic Co. 2 - Quality D
- FO3 – FO3D Fiber Optic Co. 3 - Quality D
- FO4 – FO4D Fiber Optic Co. 4 - Quality D
- FO5 – FO5D Fiber Optic Co. 5 - Quality D
- FO6 – FO6D Fiber Optic Co. 6 - Quality D
- FO7 – FO7D Fiber Optic Co. 7 - Quality D
- FO8 – FO8D Fiber Optic Co. 8 - Quality D
- FO9 – FO9D Fiber Optic Co. 9 - Quality D
- FO10 – FO10D Fiber Optic Co. 10 - Quality D
- G – GL1D Gas Line Co. 1 - Quality D
- SAN. – SA1D Sanitary Sewer Co. 1 - Quality D
- SAN.2 – SA2D Sanitary Sewer Co. 2 - Quality D
- SAN.3 – SA3D Sanitary Sewer Co. 3 - Quality D
- ST S – ST1D Storm Sewer Co. 1 - Quality D
- TV – TV1D TV Cable Co. 1 - Quality D
- TV2 – TV2D TV Cable Co. 2 - Quality D
- W – WL1D Water Line Co.1 - Quality D
- W2 – WL2D Water Line Co.2 - Quality D
- W3 – WL3D Water Line Co.3 - Quality D

UTILITY LEGEND

Remark abbreviations
QLA – Quality Level A Highest guideline quality level
QLD – Quality Level D Lowest guideline quality level

- E1 – EL1D MidAmerican Energy Electric - Quality D
- E2 – EL2D Urbandale Traffic Electric - Quality D
- E3 – EL3D Clive Traffic Electric - Quality D
- E4 – EL4D Iowa Department of Transportation (IDOT) Electric - Quality D
- E5 – EL5D GPRS/No Name Electric - Quality D
- FO – FO1D Zayo Fiber Optic - Quality D
- FO2 – FO2D CenturyLink Fiber Optic - Quality D
- FO3 – FO3D MCI/Verizon Fiber Optic - Quality D
- FO4 – FO4D Iowa Communications Network (ICN) Fiber Optic - Quality D
- FO5 – FO5D Windstream Communications Fiber Optic - Quality D
- FO6 – FO6D Unite Private Network Fiber Optic - Quality D
- FO7 – FO7D Clive Traffic Fiber Optic - Quality D
- FO8 – FO8D Consolidated Communications Fiber Optic - Quality D
- FO9 – FO9D No Name (Unidentified) Fiber Optic - Quality D
- FO10 – FO10D Aureon Fiber Optic - Quality D
- FO11 – FO11D Mediacom Fiber Optic - Quality D
- FO12 – FO12D Next Level Fiber Optic - Quality D
- FO13 – FO13D Metronet Fiber Optic - Quality D
- G – GL1D MidAmerican Energy Gas Line - Quality D
- G2 – GL2D Unknown Gas Line - Quality D
- GHP – GH1D MidAmerican Energy Gas Line - Quality D
- PR MidAmerican Energy Riser Pole
- PPA Power Pole MidAmerican Energy
- SAN. – SA1D City of Clive Sanitary Sewer - Quality D
- SAN.2 – SA2D Des Moines Waste Water Sanitary Sewer - Quality D
- SAN.3 – SA3D City of Urbandale Sanitary Sewer - Quality D
- ST S – ST1D Storm Sewer Co. 1 - Quality D
- T1 – TL1D CenturyLink Telephone Line - Quality D
- T2 – TL2D Comm Data Link Telephone Line - Quality D
- TV – TV1D Mediacom TV Cable - Quality D
- TV2 – TV2D Proposed Route TDI Cable TV Cable - Quality D
- W – WL1D Clive Public Works Water Water Line - Quality D
- W2 – WL2D Urbandale Water Water Line - Quality D
- W3 – WL3D Des Moines Water Works Water Line - Quality D

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.**	
Yellow	(4)	Highlight for Critical Notes or Features
Red	(3)	Delineates Restricted Areas
Lavender	(9)	Temporary Pavement Shading
Gray, Light	(48)	Proposed Pavement Shading
Gray, Med	(80)	Proposed Granular Shading
Gray, Dark	(112)	Proposed Grade and Pave Shading "In conjunction with a paving project"
Brown, Light	(236)	Grading Shading
Tan	(8)	Proposed Sidewalk Shading
Blue, Light	(230)	Proposed Sidewalk Landing Shading
Pink	(11)	Proposed Sidewalk Ramp Shading

PROFILE VIEW COLOR LEGEND OF PLAN AND PROFILE SHEETS

LINEWORK	Design Color No.	
Green	(2)	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
- Existing and Proposed Right-of-Way
- Easement and Existing Right-of-Way
- Easement (Temporary)
- Easement
- C/A Access Control
- Property Line

PLAN AND PROFILE LEGEND AND SYMBOL INFORMATION SHEET

(COVERS SHEET SERIES D, E, F, & K)

FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER D.1

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

Sta.374+23.29
Install Parallel
Wing Headwall
F.L. = Lt 898.23
Other 899.25
Remove Flume
and 37' Barrel
Sta.374+23.29
Skew= 0°
5'X5'X566'RCBC
D.A.=195.0 AC.

Construction Limits

Sta.377+09.87 SBL
Install 24" X 14' RCP
Extension and Reinstall
Concrete Apron
F.L. = Lt 918.50
Other 918.75
(Remove Apron)
Sta.377+09.87 SBL
24" X 121' RCP

(Remove Apron)
Sta.380+00.00 SBL
18" X 101' RCP

Sta.382+99.23 SBL
Install 18" X 56' RCP
Extension and Reinstall
Concrete Apron
F.L. = Lt 922.95
Other 924.51
(Remove Apron)
Sta.382+99.23 SBL
18" X 99.13' RCP

370
375
380
385

PT Sta 370+40.61

INTERSTATE 35/80 SB

INTERSTATE 35/80 NB

Sta. 371+52.00
Begin Project
Begin Widening

Sta.371+49.65 NBL
Install 18" X 18' RCP
Extension and Reinstall
Concrete Apron
F.L. = Other 923.89
Rt 923.60
(Remove Apron)
Sta.371+49.65 NBL
18" X 105' RCP

RAMP D

Sta.374+25.47 NBL
Install 18" X 22' RCP
Extension and Reinstall
Concrete Apron
F.L. = Other 925.99
Rt 925.70
(Remove Apron)
Sta.374+25.47 NBL
18" X 97' RCP

0 FEET 50

Construction Limits

Existing ROW

960
950
940
930
920
910
900
890

Existing Ground
at Southbound PGL

Existing Ground
at Northbound PGL

+50 RT
923.60
-2.836% RT DG
+90 RT
919.63

+25 LT
912.95
-7.405% LT DG
+10 LT
899.25
+9.673% LT DG
+09 LT
918.50

+20 RT
924.25
+0.435% RT DG
+20 RT
924.25

+50 RT
924.00
-1.013% LT DG

+75 LT
922.83
0.493%
LT DG
+50 LT
923.20

Lt U.A.C. Ditch Grade U.A.C. Ditch Grade Lt

Rt U.A.C. Ditch Grade Ditch Grade U.A.C. D.G. Rt

370	371	372	373	374	375	376	377	378	379	380	381	382	383	384	385
932.91 / 933.03	932.77 / 932.91	932.64 / 932.82	932.48 / 932.73	932.40 / 932.62	932.34 / 932.52	932.26 / 932.36	932.19 / 932.28	932.09 / 932.16	932.01 / 932.04	931.94 / 932.00	931.90 / 931.99	931.81 / 931.89	931.69 / 931.76	931.59 / 931.70	931.56 / 931.62	931.46 / 931.53	931.37 / 931.45	931.30 / 931.35	931.20 / 931.24	931.11 / 931.10	931.05 / 931.05	931.00 / 931.00	930.92 / 930.89	930.82 / 930.79	930.73 / 930.71	930.59 / 930.61	930.46 / 930.50	930.31 / 930.35	930.12 / 930.11	929.81 / 929.85

FILE NO.	ENGLISH	DESIGN TEAM	SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER	IM-080-4(069)125--13-77	SHEET NUMBER	D.2

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

STA. 389+47
8'X48' PVC
D.A.=xx A-F
(Remove)

Existing ROW

Sta.394+54.04 SBL
Install 18" X 26' RCP
Extension and Reinstall
Concrete Apron
F.L. = Lt 902.10
Other 902.34
(Remove Apron)
Sta.394+54.04 SBL
18" X 102' RCP

Sta.399+04.47 SBL
Install 18" X 28' RCP
Extension and Reinstall
Concrete FES
F.L. = Lt 885.25
Other 885.53
(Remove FES)
Sta.399+04.47 SBL
18" X 109' RCP

Construction Limits

Remove Intake

INTERSTATE 35/80 SB

INTERSTATE 35/80 NB

Sta.386+00.00 NBL
Install 18" X 36' RCP
Extension and Reinstall
Concrete FES
F.L. = Other 922.53
Rt 922.25
(Remove FES)
Sta.386+00.00 NBL
18" X 93' RCP

Existing ROW

Sta.390+10.89 NBL
Install 24" X 32' RCP
Extension and
Concrete Apron
F.L. = Other 908.47
Rt 908.20
(Remove Apron)
Sta.390+10.89 NBL
24" X 114' RCP

Construction Limits

0 FEET 50

Wall 'A'
615'-3 x Variable Height
MSE Retaining Wall

+00 RT
922.25
-1.167% RT DG
-1.013% LT DG
+50 LT
919.15
-3.973% RT DG
-1.568% LT DG
+00 LT
915.23
+11 RT
905.92
-2.937% RT DG
-2.892% LT DG
+54 LT
902.10
+00 RT
891.56
-2.187% RT DG
-3.744% LT DG
+00 RT
885.00
-7.778% RT DG
-6.101% LT DG
+04 LT
885.25
+80 RT
871.00

Existing Ground
at Northbound PGL
Existing Ground
at Southbound PGL

Ditch Grade
Lt

Ditch Grade
Rt

385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400
929.81 / 929.85	929.45 / 929.49	928.94 / 928.98	928.42 / 928.45	927.78 / 927.82	927.04 / 927.08	926.19 / 926.22	925.26 / 925.29	924.32 / 924.23	923.19 / 923.12	922.00 / 921.89	920.69 / 920.60	919.34 / 919.24	917.85 / 917.77	916.34 / 916.28	914.87 / 914.79	913.38 / 913.29	911.88 / 911.79	910.34 / 910.28	908.85 / 908.77	907.32 / 907.21	905.80 / 905.70	904.25 / 904.21	902.82 / 902.68	901.25 / 901.16	899.75 / 899.65	898.27 / 898.13	896.71 / 896.54	895.34 / 895.01	893.82 / 893.63	892.59 / 892.39

FILE NO.	ENGLISH	DESIGN TEAM	SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER	IM-080-4(069)125--13-77	SHEET NUMBER	D.3

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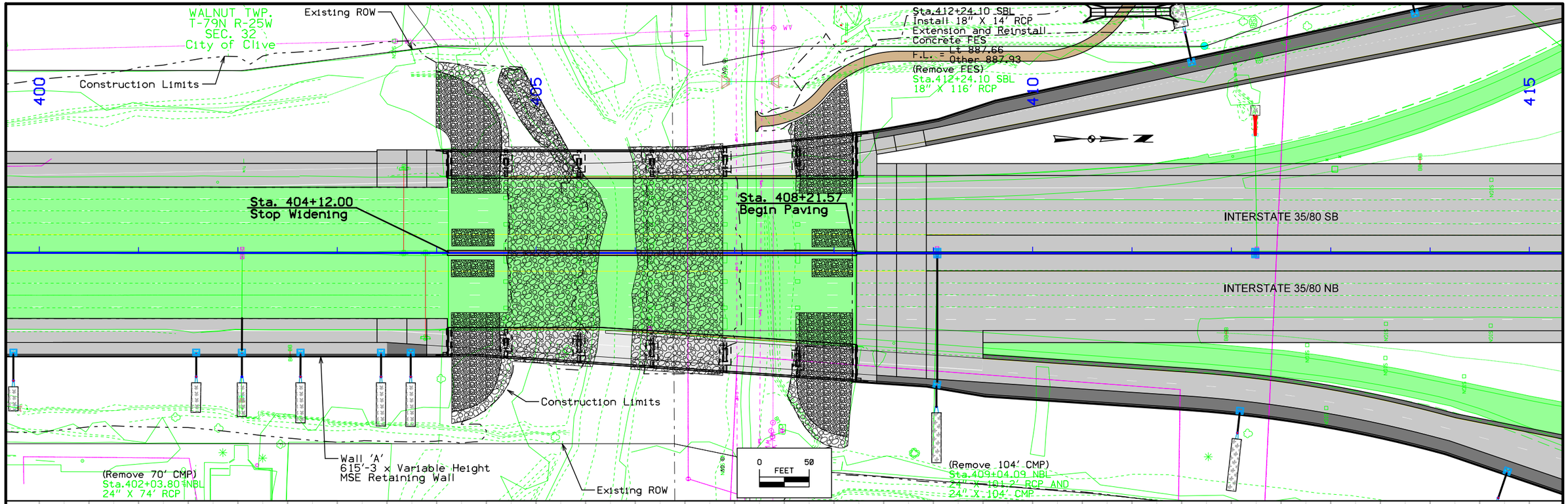

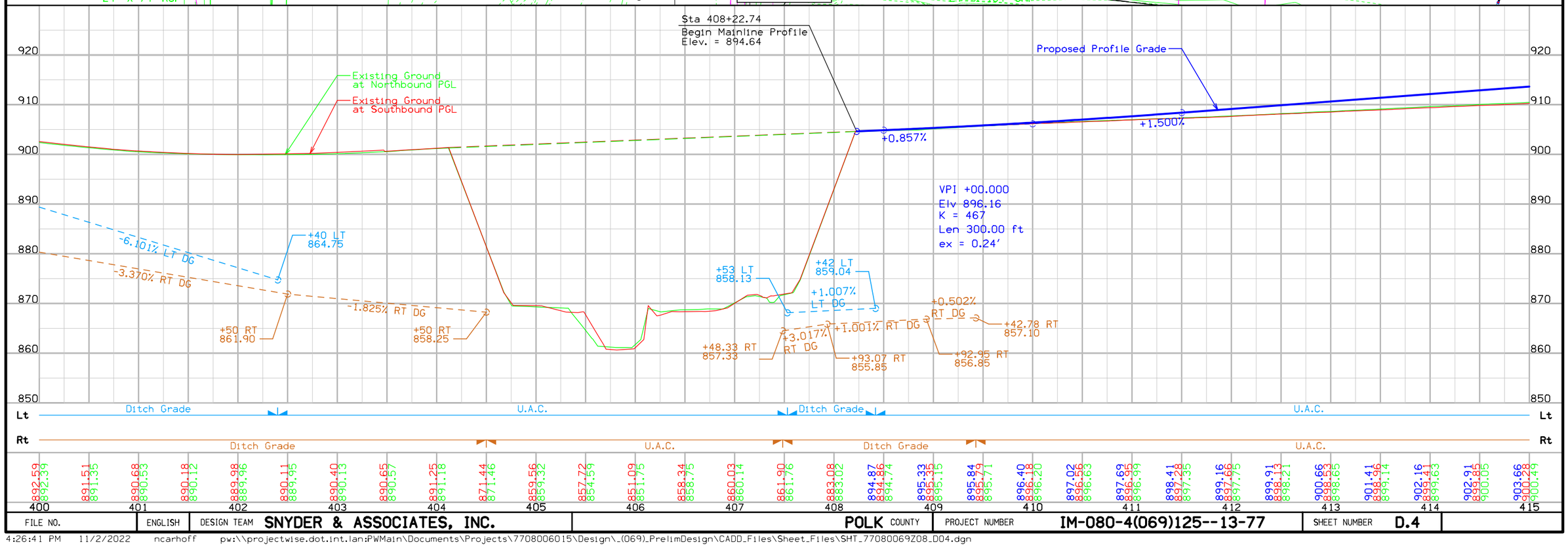

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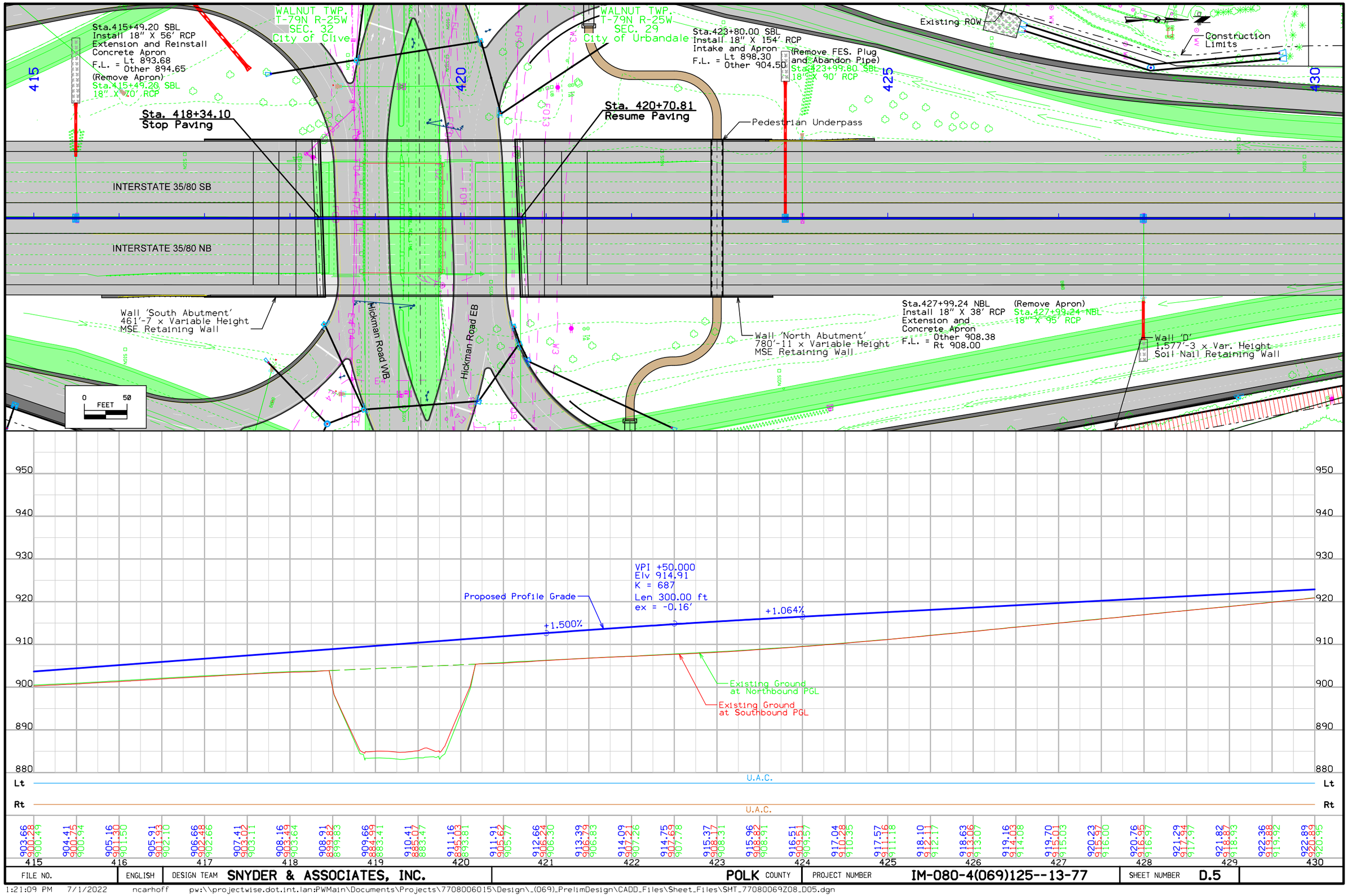

FILE NO.	ENGLISH	DESIGN TEAM	SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER	IM-080-4(069)125--13-77	SHEET NUMBER	D.5

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

Sta.432+58.10 SBL
Install 24" X 54' RCP
Extension and Reinstall
Concrete FES
F.L. = Lt 916.56
Other 919.36
(Remove FES)
Sta.432+58.10 SBL
24" X 110' RCP

Construction Limits
Existing ROW

Sta.441+03.00
Lt Install 14' X 12' X 23' RCB
Extension and Flared Wing Headwall
F.L. = Lt 927.50
Other 927.32
Rt Install 14' X 12' X 21' RCB
Extension and Flared Wing Headwall
F.L. = Other 926.33
Rt 926.25
(Remove Flared Wing
Headwall Lt & Rt)
Sta.441+03.00
14' X 12' X 222' RCB

Curve ML080_4 Data
Δ = 0° 42' 00.00" (LT)
T = 300.00
L = 599.99
R = 49,109.96
E = 0.92

Sta.441+28.30 SBL
Install 24" X 22' RCP
Extension and
Concrete Apron
F.L. = Lt 923.60
Other 924.02
(Remove Apron)
Sta.441+28.30 SBL
24" X 148' RCP

Sta.1439+22.00
Install 15" X 42' PVC
F.L. = Lt 923.65
Other 924.55

Sta.444+87.88 SBL
Install 18" X 50' RCP
Extension and
Concrete Apron
F.L. = Lt 937.33
Other 9938.61
(Remove 95' CMP
and Apron)
Sta.444+87.60 SBL
18" X 94' RCP and
18" X 95' CMP

PC Sta 437+32.90
PI Sta 440+32.90
PT Sta 443+32.89

INTERSTATE 35/80 SB
INTERSTATE 35/80 NB

Sta. 434+00.00
End Paving
Resume Widening

Sta.432+30.00
Install 36" X 276' RCP
EQ 36" X 60' LCP
Lt 915.20
F.L. = Other 916.67
Rt 917.02

(Lt Remove 36' and FES
Rt Remove 24' and FES
Plug and Abandon)
Sta.432+01.47 Skew= 0°
1.8'X3'ARCH PIPEX2+
AND 24"RCPX252'
D.A.=9.0 AC.

Sta. 436+90.11 NBL
Install 15" X 18" RCP
Extension and Reinstall FES
F.L. = Other 928.75
Rt 927.85
(Remove FES)
Sta.436+90.11
15" X 104.5' RCP

Sta.442+96.22
Lt Install 12' X 12' X 37' RCB
Extension and Parallel Wing Headwall
F.L. = Lt 892.40
Other 892.33
Rt Install 12' X 12' X 38' RCB
Extension and Parallel Wing Headwall
F.L. = Other 889.42
Rt 889.32
(Remove Flared Wing Headwall Lt & Rt)
Sta.442+96.22
12' X 14'-3" Arch Culvert
and 12' X 12' RCB Extensions

Construction Limits
Existing ROW

0 50
FEET

Sta 434+00.00
End Mainline Profile
Elev. = 928.74

Proposed Profile Grade
Existing Ground
at Northbound PGL
Existing Ground
at Southbound PGL

+1.064%
+1.977%
+3.239% LT DG
+2.388% LT DG
+1.778% RT DG
+3.015% RT DG
-1.389% LT DG
-21.364% LT DG
+18.164% LT DG
+3.116% RT DG
+9.804% RT DG

VPI +25.000
Elv 925.28
K = 328
Len 300.00 ft
ex = 0.34'

+02 LT
918.02
+92 RT
922.27
+00 LT
924.43
+33 RT
928.32
+00 LT
936.37
+00 RT
936.37
+28 LT
923.60
+00 LT
922.60
+10 LT
892.50
+13 RT
889.42
+57 LT
892.50
+81 RT
898.80
+85 LT
915.75

950 940 930 920 910 900 890 880

Lt U.A.C. Ditch Grade U.A.C. U.A.C. Ditch Grade U.A.C. Ditch Grade Lt
Rt U.A.C. Ditch Grade U.A.C. Ditch Grade Rt

430	431	432	433	434	435	436	437	438	439	440	441	442	443	444	445
922.89	923.42	923.96	924.57	925.25	926.01	926.85	927.76	928.74	929.67	930.68	931.68	932.73	933.76	934.84	935.95
920.89	921.90	922.90	923.86	924.84	925.79	926.79	927.78	928.75	929.72	930.76	931.74	932.78	933.82	934.89	935.98
937.04	938.17	939.27	940.35	941.38	942.39	943.37	944.23	945.02	945.73	946.64	947.53	948.44	949.33	950.32	
937.07	938.14	939.21	940.27	941.37	942.38	943.33	944.21	945.08	945.78	946.65	947.56	948.49	949.28	950.25	

FILE NO.	ENGLISH	DESIGN TEAM	SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER	IM-080-4(069)125--13-77	SHEET NUMBER	D.6

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Sta.448+99.20 SBL
Install 24" X 36' RCP
Extension and Reinstall
Concrete FES
F.L. = Lt 951.90
Other 952.34
(Remove FES)
Sta.448+99.20 SBL
24" X 95' RCP

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

Construction Limits

Sta.453+49.24 SBL
Install 18" X 32' RCP
Extension and Reinstall
Concrete FES
F.L. = Lt 961.00
Other 961.38
(Remove FES)
Sta.453+49.24 SBL
18" X 97.2' RCP

Existing ROW

445 450 455 460

INTERSTATE 35/80 SB

INTERSTATE 35/80 NB

Existing ROW

0 FEET 50

Construction Limits

Sta. 457+99.76 NBL
Install 24" EQ X 14' RCAP
Extension and Reinstall FES
F.L. = Other 968.91
Rt 968.39
(Remove FES)
Sta.457+99.76 NBL
24" EQ X 152.8' RCP

+00 LT 951.90
+2.027% LT DG
+19 RT 954.90
+1.778% RT DG
+00 LT 961.00
+23 RT 967.42
+1.715% LT DG
+03 LT 970.50
Existing Ground at Northbound PGL
Existing Ground at Southbound PGL
+00 LT 925.20
+13.350% LT DG
+50 LT 923.20
+4.000% LT DG
+00 LT 922.12
+2.160% LT DG
+5.539% LT DG
+11.305% RT DG
+13 RT 909.00
+9.804% RT DG

970 960 950 940 930 920 910 900

Lt Ditch Grade U.A.C. Lt

Rt Ditch Grade U.A.C. Rt

445	446	447	448	449	450	451	452	453	454	455	456	457	458	459	460
950.32 / 950.25	951.35 / 951.29	952.35 / 952.24	953.40 / 953.29	954.35 / 954.28	955.40 / 955.35	956.36 / 956.37	957.39 / 957.38	958.43 / 958.42	959.49 / 959.48	960.51 / 960.52	961.55 / 961.55	962.60 / 962.54	963.58 / 963.51	964.62 / 964.55	965.57 / 965.51	966.53 / 966.50	967.46 / 967.45	968.45 / 968.39	969.39 / 969.34	970.36 / 970.31	971.32 / 971.33	972.33 / 972.31	973.33 / 973.30	974.29 / 974.23	975.27 / 975.21	976.20 / 976.16	977.11 / 977.10	977.97 / 977.93	978.66 / 978.66	979.31 / 979.25

FILE NO.	ENGLISH	DESIGN TEAM	SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER	IM-080-4(069)125--13-77	SHEET NUMBER	D.7

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Sta.461+00.00 SBL
Install 18" X 22' RCP
Extension and ReInstall
Concrete FES
F.L. = Lt 971.22
Other 972.04
(Remove FES)
Sta.461+00.00 SBL
18" X 151' RCP

Existing ROW

Sta.464+00.00 SBL
Install 18" X 26' RCP
Extension and
Concrete Apron
Lt 973.90
F.L. = Other 974.95
(Remove FES)
Sta.464+00.00 SBL
18" X 90' RCP

Construction Limits

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

Sta.468+00.00 SBL
Install 18" X 28' RCP
Extension and
Concrete Apron
F.L. = Lt 975.56
Other 976.13
(Remove FES)
Sta.468+00.00 SBL
18" X 88' RCP

Curve ML080_7 Data
Δ = 0° 08' 29.93" (RT)
T = 299.96
L = 599.91
R = 242,663.86
E = 0.19

PI Sta 472+64.96

INTERSTATE 35/80 SB

INTERSTATE 35/80 NB

PC Sta 469+65.00

Construction Limits

0 50
FEET

460 465 470 475

Existing Ground
at Southbound PGL

Existing Ground
at Northbound PGL

+58 LT
973.03
+2.071%
LT DG
+00 LT
973.90
+0.415% LT DG
+00 LT
975.56
+1.130% LT DG
+1.004% RT DG
+48 RT
973.94
+82 RT
976.29
+00 LT
978.95
+50 LT
979.78
-0.791% LT DG
-0.318% RT DG
+70 RT
978.00

1.010
1.000
990
980
970
960
950
940

Lt U.A.C. Ditch Grade U.A.C. Ditch Grade Lt
Rt U.A.C. Ditch Grade U.A.C. Ditch Grade Rt

460	461	462	463	464	465	466	467	468	469	470	471	472	473	474	475
979.31 / 979.25	979.72 / 979.74	980.08 / 980.04	980.35 / 980.31	980.48 / 980.53	980.56 / 980.62	980.66 / 980.66	980.75 / 980.78	980.87 / 980.85	980.98 / 980.94	981.09 / 981.08	981.20 / 981.17	981.28 / 981.24	981.40 / 981.33	981.48 / 981.45	981.57 / 981.54	981.60 / 981.63	981.66 / 981.69	981.70 / 981.77	981.79 / 981.80	981.82 / 981.83	981.87 / 981.91	981.94 / 981.97	981.95 / 981.95	982.00 / 982.02	981.99 / 982.02	981.98 / 982.01	981.93 / 981.93	981.89 / 981.89	981.80 / 981.81	981.73 / 981.75

FILE NO.	ENGLISH	DESIGN TEAM	SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER	IM-080-4(069)125--13-77	SHEET NUMBER	D.8

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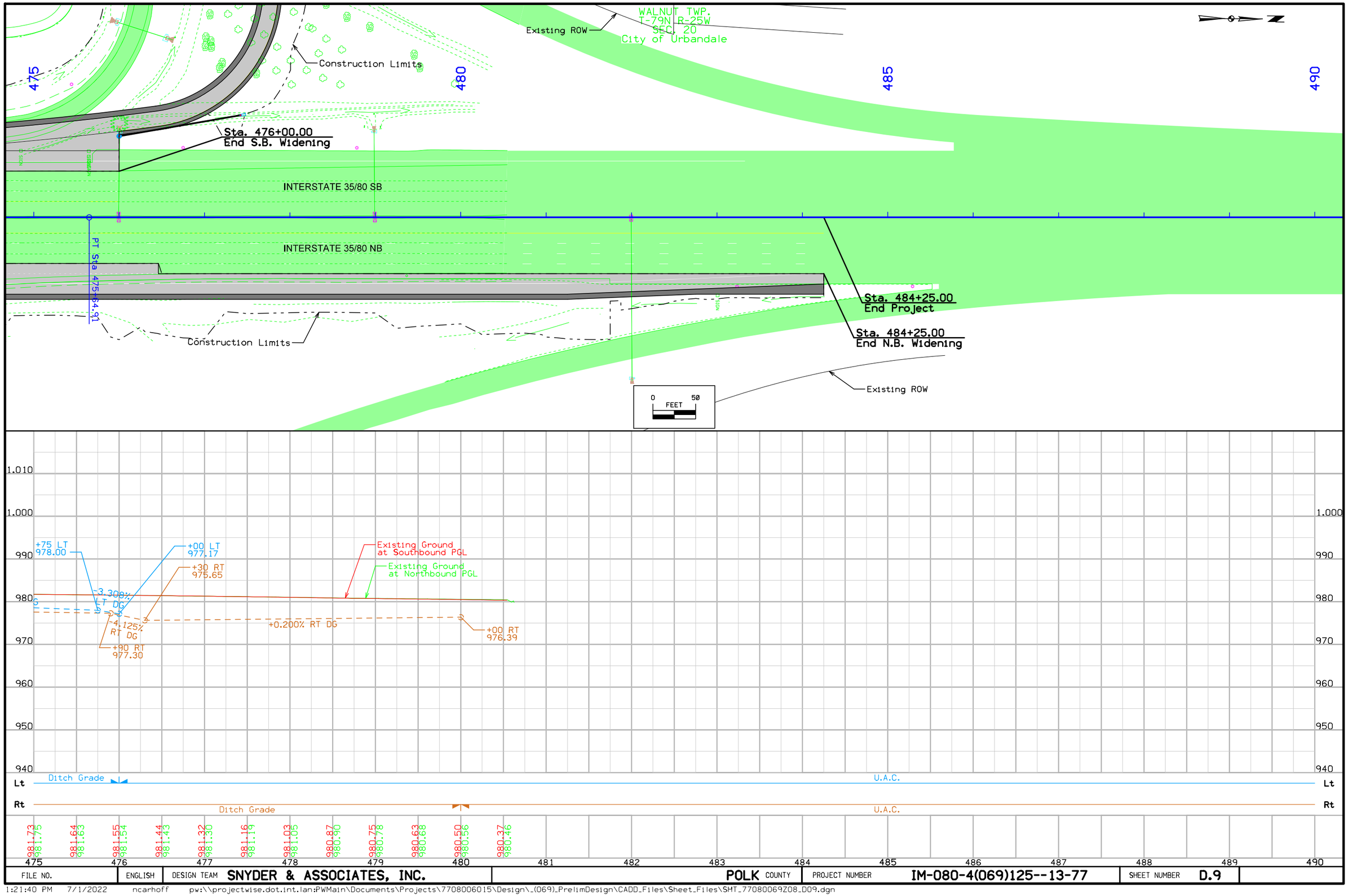

FILE NO.	ENGLISH	DESIGN TEAM	SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER	IM-080-4(069)125--13-77	SHEET NUMBER	D.9

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

CITY OF
URBANDALE

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

Curve SR006_9 Data
Δ = 2° 00′ 01.95″ (LT)
T = 17.46
L = 34.92
R = 1,000.00
E = 0.15

Curve SR006_WB_3 Data
Δ = 15° 20′ 00.98″ (LT)
T = 69.60
L = 138.14
R = 517.00
E = 4.66

Curve SR006_WB_4 Data
Δ = 33° 19′ 59.03″ (RT)
T = 150.59
L = 292.15
R = 503.00
E = 22.06

Curve SR006_WB_7 Data
Δ = 20° 00′ 00.00″ (LT)
T = 91.16
L = 180.47
R = 517.00
E = 7.98

Curve SR006_12 Data
Δ = 6° 16′ 14.38″ (RT)
T = 54.78
L = 109.44
R = 1,000.00
E = 1.50

Curve SR006_15 Data
Δ = 4° 30′ 27.18″ (LT)
T = 39.36
L = 78.67
R = 1,000.00
E = 0.77

Curve SR006_WB_10 Data
Δ = 20° 00′ 00.00″ (LT)
T = 91.16
L = 180.47
R = 517.00
E = 7.98

Curve SR006_WB_13 Data
Δ = 44° 10′ 18.45″ (RT)
T = 204.10
L = 387.78
R = 503.00
E = 39.83

Curve SR006_WB_14 Data
Δ = 22° 24′ 31.25″ (LT)
T = 102.41
L = 202.20
R = 517.00
E = 10.05

Begin DDI WB
POT Sta 1668+00.00 =
Sta 668+00.00, 30.00′ LT

End DDI WB
POT Sta 1687+49.05 =
Sta. 687+00.00, 23.00′ LT

Begin DDI EB
POT Sta 2668+00.00 =
Sta. 668+00.00, 28.00′ RT

End DDI EB
POT Sta 2687+39.28 =
Sta. 687+00.00, 23.00′ RT

Hickman Road WB

Hickman Road EB

INTERSTATE 35/80 SB

INTERSTATE 35/80 NB

NW 111th Street

Curve SR006_EB_3 Data
Δ = 13° 15′ 57.52″ (RT)
T = 60.12
L = 119.70
R = 517.00
E = 3.48

Curve SR006_EB_4 Data
Δ = 35° 15′ 59.47″ (LT)
T = 159.88
L = 309.60
R = 503.00
E = 24.80

Curve SR006_EB_10 Data
Δ = 20° 00′ 00.00″ (RT)
T = 91.16
L = 180.47
R = 517.00
E = 7.98

Curve SR006_EB_13 Data
Δ = 18° 14′ 12.80″ (LT)
T = 80.73
L = 160.10
R = 503.00
E = 6.44

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

CITY OF
CLIVE

0 100 FEET

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

GEOMETRIC PLAN
PROPOSED INTERCHANGE
INTERSTATE 35/80
WITH HICKMAN ROAD (US 6)

FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER E.1

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Curve SR006_3 Data
Δ = 2° 11' 04.29" (RT)
T = 218.31
L = 436.56
R = 11,450.11
E = 2.08

WEBSTER TWP. T-79N R-25W SEC. 29

CITY OF URBANDALE

Curve SR006_6 Data
Δ = 1° 57' 59.59" (LT)
T = 196.52
L = 393.00
R = 11,450.11
E = 1.69

+43.30 Exist. Type "A" Ent. (Joint) U.A.C.

Access Reconstructed With (189) Project

DMWW Water Main Easement

Existing ROW

Construction Limits

650

655

660

PI Sta 653+55.18

PC Sta 667+09.06

PT Sta 661+02.06

Dashed Lines Indicate Work Completed With (189) Project

Sta. 656+09.63
Begin Widening

Hickman Road WB

Curve SR006_6

Curve SR006_3

PC Sta 651+36.87

PT Sta 655+73.43

PI Sta 659+58.58

Hickman Road EB

Existing ROW

Access Reconstructed With (189) Project

Water Main Relocated With (189) Project

Wall "E"
271'-8 X Variable Height
MSE Retaining Wall

Construction Limits

Relocate Water Main

+53.93 Exist. Type "B" Ent. U.A.C

0 FEET 50

WEBSTER TWP. T-79N R-25W SEC. 32

CITY OF CLIVE

Sta.647+97.02
15"X91' RCP

Hickman Road (US 6)

Existing Ground at PGL

960 950 940 930 920 910 900 890

Lt

Rt

929.57 930.19 930.73 931.23 931.59 931.95 932.58 932.72 932.81 932.84 932.80 932.76 932.15 931.84 931.46 931.01 930.49 929.82 929.17 928.63 927.74 926.83 926.36 924.98 923.94 922.83 921.68 920.49 919.18 917.81 916.43

647 648 649 650 651 652 653 654 655 656 657 658 659 660 661 662

FILE NO.	ENGLISH	DESIGN TEAM	SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER	IM-080-4(069)125--13-77	SHEET NUMBER	E.2

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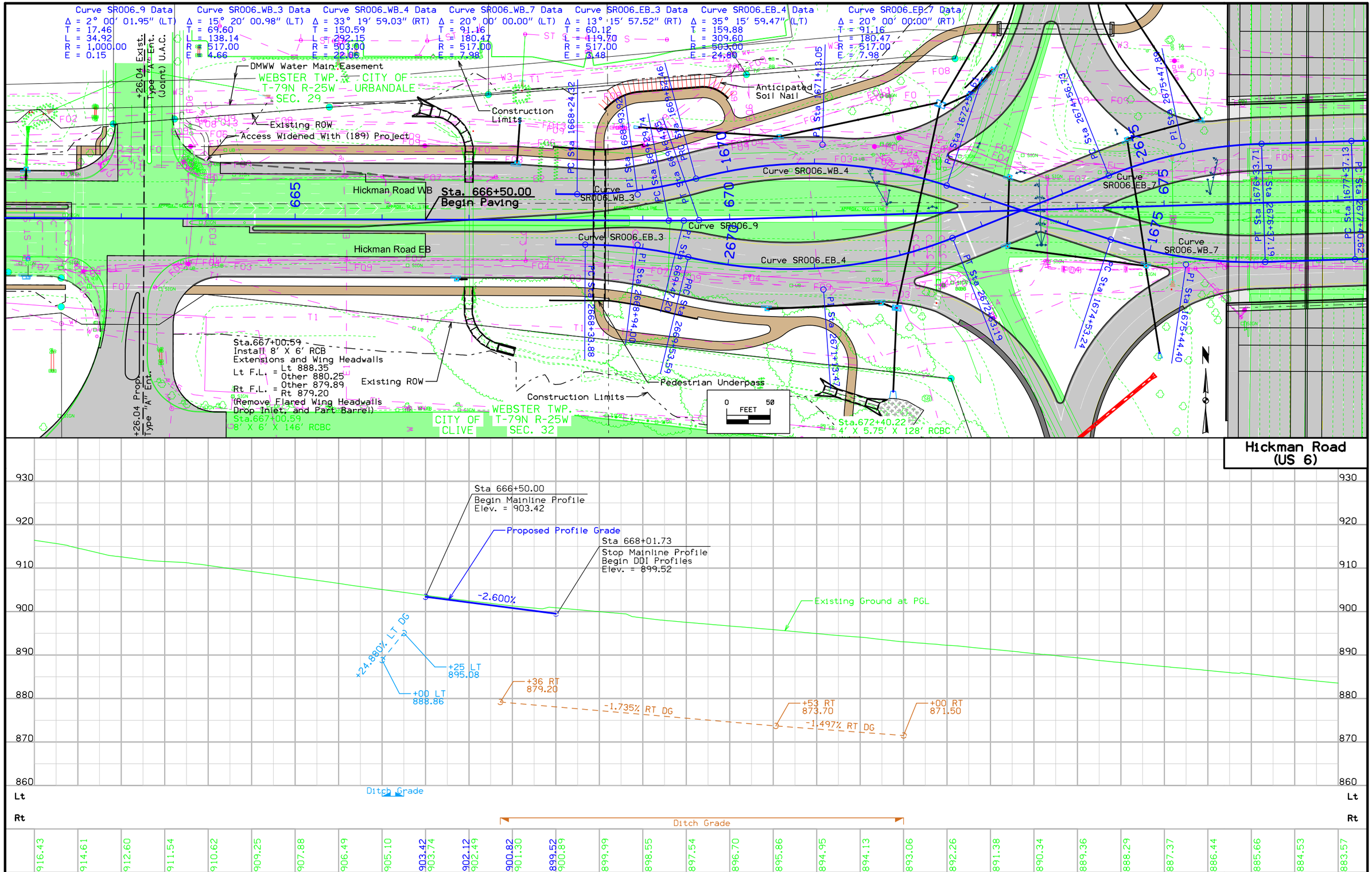

FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER E.3

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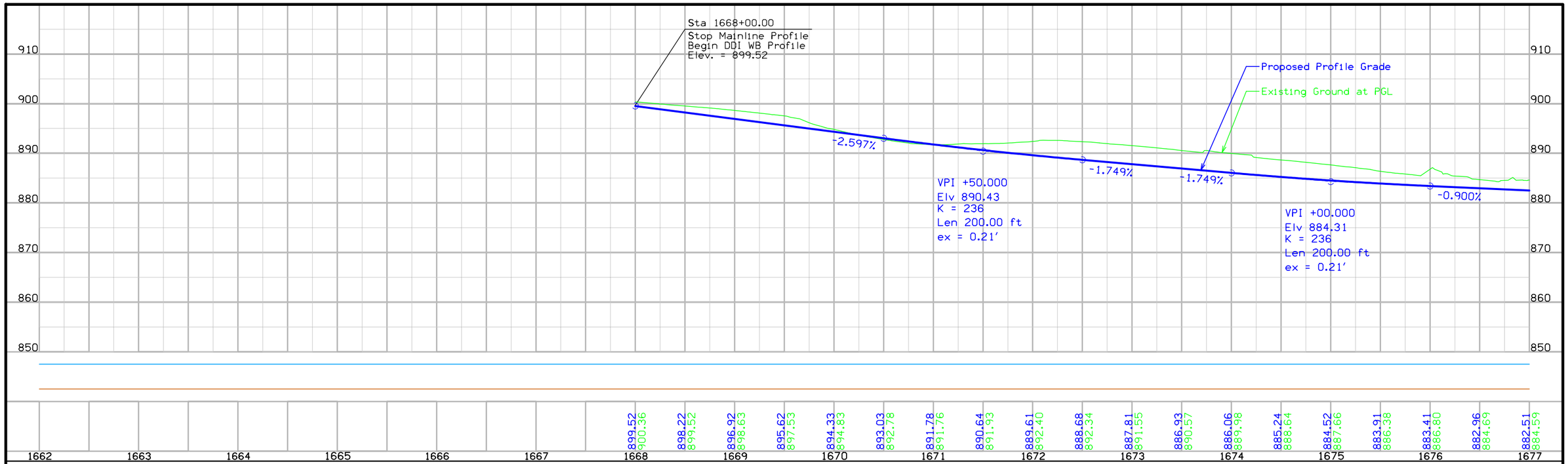
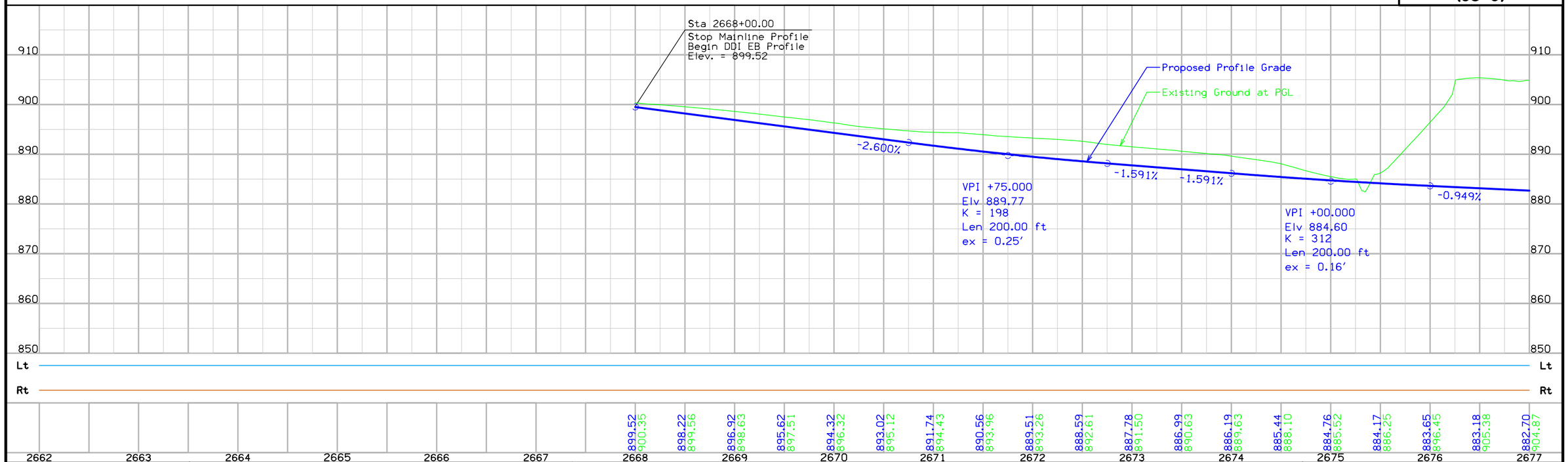


Hickman Road (US 6)



FILE NO.	ENGLISH	DESIGN TEAM	SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER	IM-080-4(069)125--13-77	SHEET NUMBER	E.4

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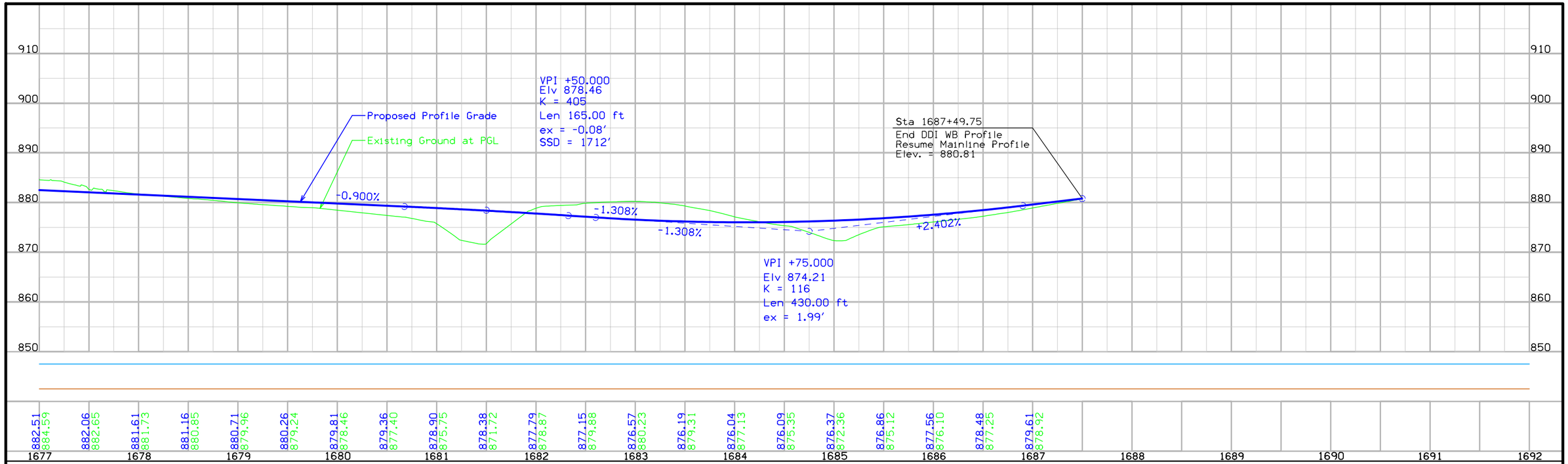
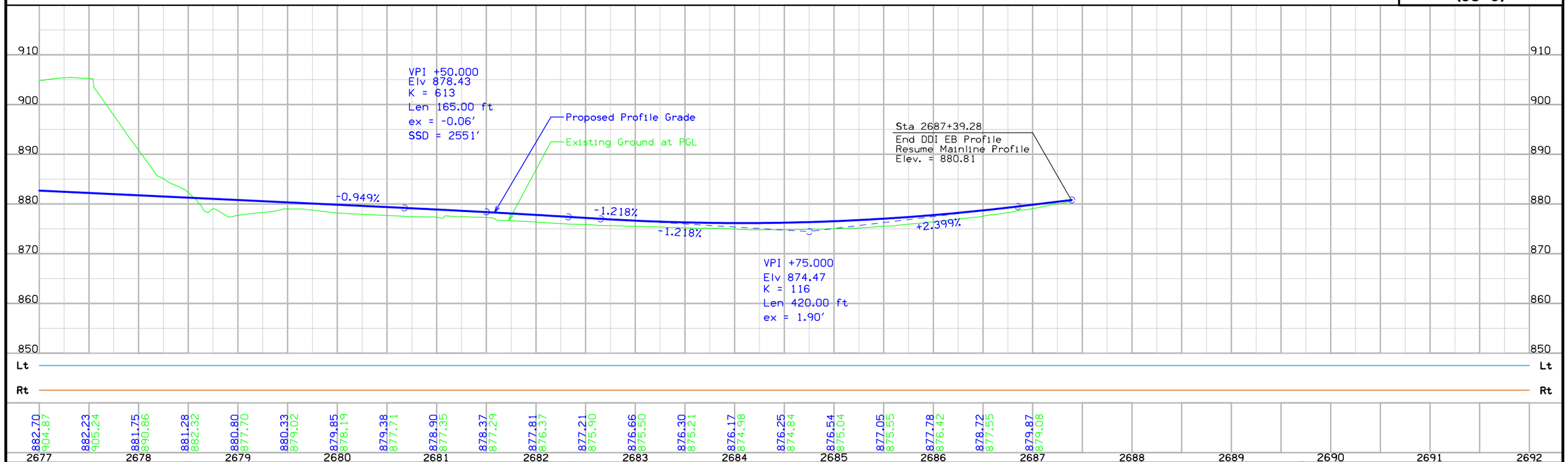


Hickman Road
(US 6)



FILE NO.	ENGLISH	DESIGN TEAM	SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER	IM-080-4(069)125--13-77	SHEET NUMBER	E.5

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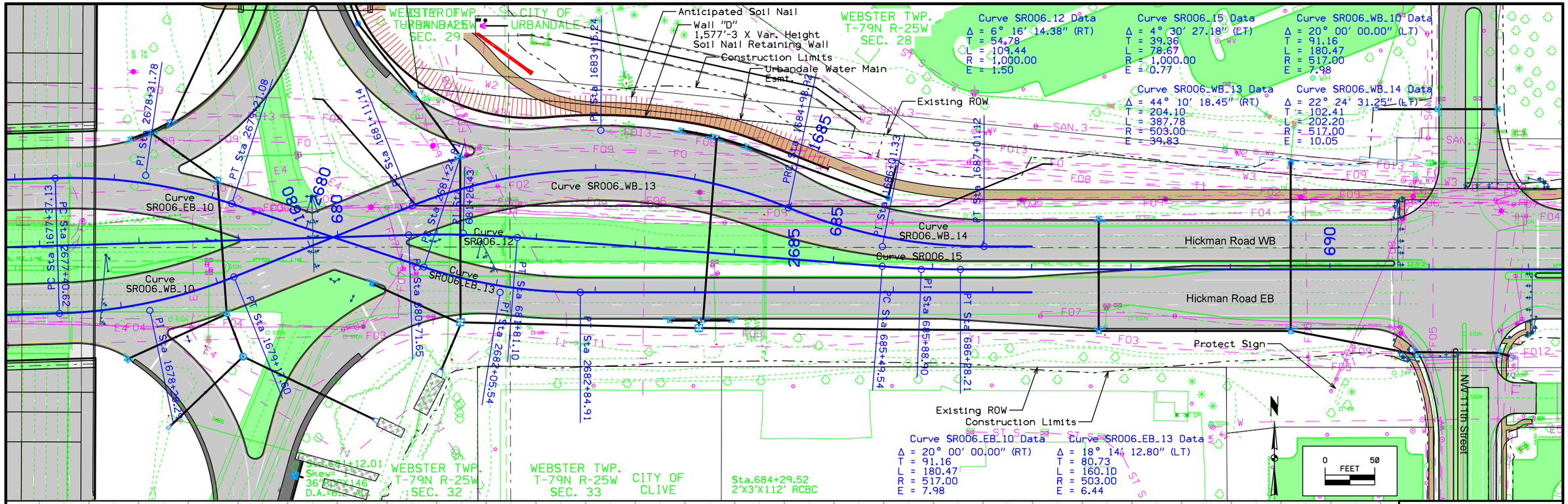

FILE NO.	ENGLISH	DESIGN TEAM	SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER	IM-080-4(069)125--13-77	SHEET NUMBER	E.6

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WEBSTER TWP.
T-79N R-25W
SEC. 28

CITY OF
URBANDALE

Urbandale Water Main Esmt.

Existing ROW

Sta. 697+15.00
End Paving

Construction Limits

695

700

POT Sta 702+17.41

Hickman Road WB

Hickman Road EB

Construction Limits

Existing ROW

WEBSTER TWP.
T-79N R-25W
SEC. 33

CITY OF
CLIVE

Sta.697+79.80
30"RCPX110'

0 FEET 50

N

Hickman Road
(US 6)

Proposed Profile Grade

Sta 697+15.00
End Mainline Profile
Elev. = 887.14

-1.101%

Existing Ground at PGL

920 910 900 890 880 870 860 850

Lt

Rt

891.06 890.28 | 891.27 890.40 | 891.27 890.46 | 891.05 890.45 | 890.61 890.16 | 890.06 889.79 | 889.51 889.26 | 888.96 888.64 | 888.41 888.03 | 887.86 887.19 | 887.31 886.58 | 885.99 | 885.43 | 884.78 | 884.25

692 693 694 695 696 697 698 699 700 701 702 703 704 705 706 707

FILE NO.	ENGLISH	DESIGN TEAM	SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER	IM-080-4(069)125--13-77	SHEET NUMBER	E.7

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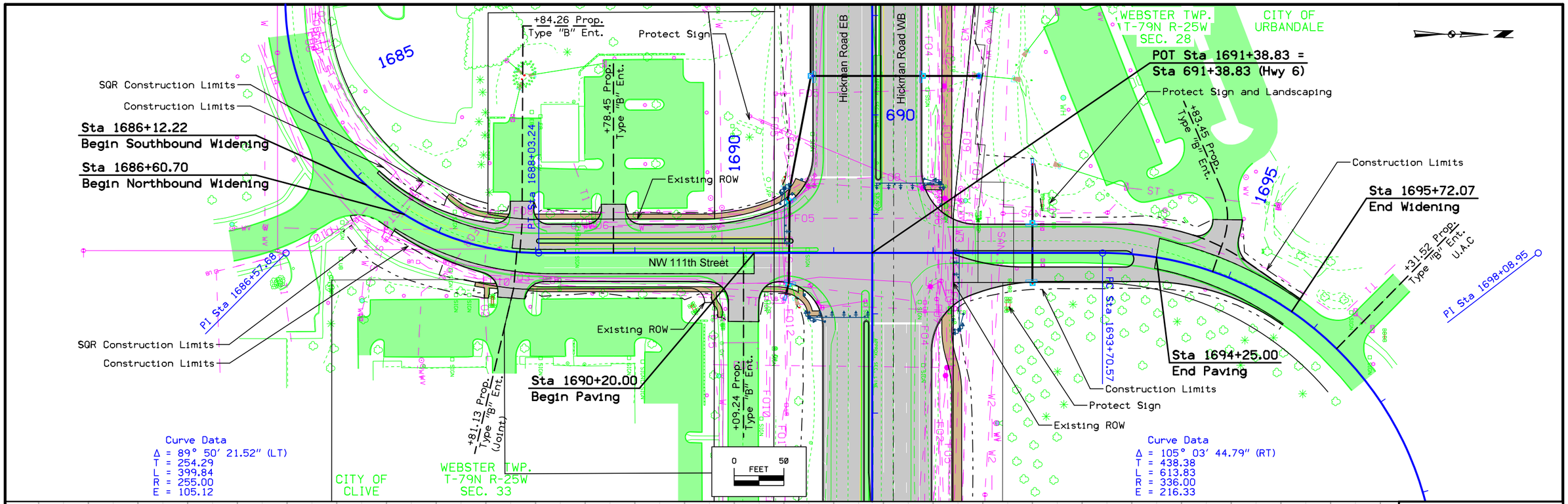

FILE NO.	ENGLISH	DESIGN TEAM	SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER	IM-080-4(069)125--13-77	SHEET NUMBER	E.8

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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)

P.T. 370+45.61 (plan) = P.C. 370+40.61 (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.

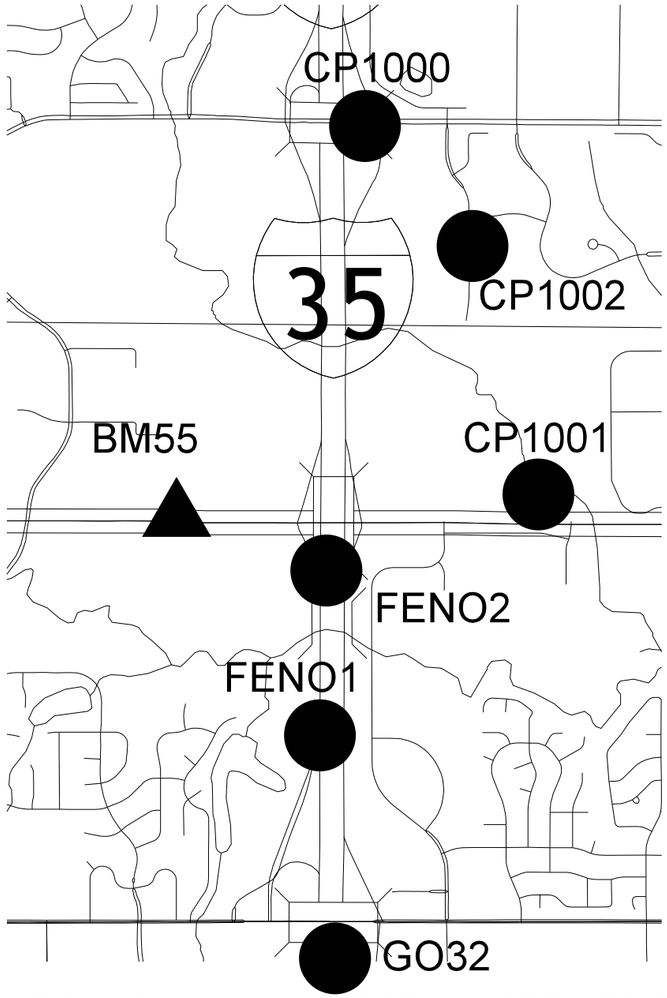
P.I. 186+92.513m (613+27.02 U.S. survey foot) = P.I. 186+92.513m (613+27.02 U.S. survey foot) (this survey)
Found "P-K" nail in conc. crossover

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

SUPERELEVATION DATA

See PV-300 Series

Road Identification	Circular Curve or Spiral Curve Name	Radius	Superelevation Data			Standard Road Plan	Section A-A	Section B-B	Section C-C	Section D-D	Section E-E	Section F-F	Case A	Case B	Case C	Case S	Case T	Case U	Remarks
			e	L	x														
		FT	%	FT	FT														
University Ave																			
Ramp A	A-1	724	6.0	200	67	PV-303	1368+26.62		1368+91.97	1369+51.97							1368+85.30		Normal cross slope at A-A is 2.23%
								1373+62.42		1371+62.42						1372+29.09	1372+29.09		
Ramp A	A-2	1340	6.0	240	80	PV-303		1373+62.42		1376+02.42						1375+22.42	1375+22.42		
							1383+23.00		1382+75.00	1382+03.00						1382+83.00			Normal cross slope at A-A is 3.0%
Ramp D	D-1	1340	6.0	186	62	PV-303	2372+60.77		2373+28.97	2373+84.77						2373+22.77	2373+22.77		
										2376+89.79									
Ramp D	D-2	2000	5.4	168	62	PV-303				2377+08.39									
																			Refer to Detail 533-2
Hickman Road																			
Ramp A	A-1	1340	6.0	240	80	PV-303	3424+86.86		3425+74.86	3426+46.86						3425+66.86	3425+66.86		
							3429+24.47		3428+36.47	3427+64.47						3428+44.47	3428+44.47		
Ramp B	B-1	1340	6.0	240	80	PV-303	4410+66.36		4411+54.36	4412+26.36						4411+46.36	4411+46.36		
							4415+03.97		4414+15.97	4413+43.97						4414+23.97	4414+23.97		
Ramp C	C-1	2000	5.4	160	53	PV-303													Refer to Detail 533-2
							5409+67.97		5409+08.97	5408+60.97						5409+02.45	5409+02.45		
Ramp D	D-1	2000	5.4	160	53	PV-303	6432+83.47		6433+42.47	6433+90.47						6433+48.99	6433+48.99		
																			Refer to Detail 533-2
Douglas Ave																			
Ramp B	B-1	1340	6.0	240	80	PV-303	7457+20.31		7457+68.31	7458+40.31						7457+60.31	7457+60.31		Normal cross slope at A-A is 3.0%
									7463+48.69	7462+76.69									
Ramp C	C-1	2000	5.4	168	62	PV-303													Refer to Detail 533-2
							8460+14.92		8459+59.32	8459+08.92						8459+52.48			
Ramp C	C-2	2000	5.4	168	62	PV-303	8462+62.51		8463+18.11	8463+68.51						8463+24.95	8463+24.95		
										8466+42.63						8466+86.19	8466+86.19		
Ramp E	E-3	144	6.0	128	43	PV-303	9476+40.73		9476+45.00	9476+83.40						9476+40.73			Normal cross slope at A-A is 4.0%
							9481+00.58		9480+53.98	9480+15.58						9480+58.25	9480+58.25		
Ramp E	E-4	164	6.0	128	43	PV-303	9481+75.47		9482+22.07	9482+60.47						9482+17.80	9482+17.80		
Ramp F	F-1	164	6.0	128	43	PV-303													
							10460+29.12		10459+82.52	10459+44.12						10459+86.79	10459+86.79		
Ramp F	F-2	144	6.0	128	43	PV-303	10462+38.89		10462+85.49	10463+23.89						10462+81.22	10462+81.22		
							10467+09.27		10467+05.00	10466+66.60						10467+09.27			Normal cross slope at A-A is 4.0%

NO ACCESS RIGHTS ARE TO BE ACQUIRED ON THIS PROJECT.

ACCESS CONTROL PREVIOUSLY ACQUIRED.

FILE NO.	ENGLISH	DESIGN TEAM	IOWA DOT * OFFICE OF ROW	COUNTY	PROJECT NUMBER	SHEET NUMBER	

CRACKER BARREL
OLD COUNTRY STORE INC.

SW1/4 SE1/4
SEC. 32-79N-25W

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

SAI HOTELS LLC

SUNRISE IOWA
HOTELS LLC

AMC REAL ESTATE HOLDINGS LLC

NW1/4 SE1/4
SEC. 32-79N-25W

NE1/4 SE1/4
SEC. 32-79N-25W

SE1/4 SE1/4
SEC. 32-79N-25W

Sta 1368+26.62 (Ramp A)
Begin Ramp A Construction

1370

1375

370

375

380

385

2380

CITY OF CLIVE

CITY OF CLIVE

373+81
℄645'±EX.R/W

373+96
℄648'

375+40
℄601'

376+59.38
℄561'±EX.R/W Cor.

377+57
℄527'

378+17
℄501±EX.R/W

379+21
℄461'±EX.R/W

379+77
℄448'

381+66.15
℄367'±EX.R/W Cor.

380+08
℄428'±EX.R/W

382+42
℄344'

NW 118th ST

Ramp E

Ramp A

Ramp E

FO5

FO3

FO4

FO

BUCKEY 4" SUCKEY RIDGE BUSINESS PARK CONC. 6480 PO 147

BUTLER "X" MICROWAVE SYSTEMS WISCONSIN BUSINESS PARK CONC. TBK 7484 PO 86)

LOT 4 MICROWAVE SYSTEMS CONC. BUSINESS PARK CONC. TBK 7484 PO 86)

Sta.1376+73.82
Install 66" X 328' RCP
78" X 32' RCP and
Slope Tapered Pipe
F.L. = Lt 891.25
Rt 899.00

Sta.377+09.87 SBL
Install 24" X 14' RCP
Extension and Reinstall
Concrete Apron
F.L. = Lt 918.50
Other 918.75
(Remove Apron)
Sta.377+09.87 SBL
24" X 121' RCP

(Remove Apron)
Sta.380+00.00 SBL
18" X 101' RCP

Sta.374+23.29
Install Parallel
Wing Headwall
F.L. = Lt 898.23
Other 899.25
Remove Flume
and 37' Barrel
Sta.374+23.29
Skew= 0°
5'X5'X566'RCBC
D.A.=195.0 AC.

Sta.374+23.29
Skew= 0°
5'X5'X566'RCBC
D.A.=195.0 AC.

INTERSTATE 35/80 SB

INTERSTATE 35/80 NB

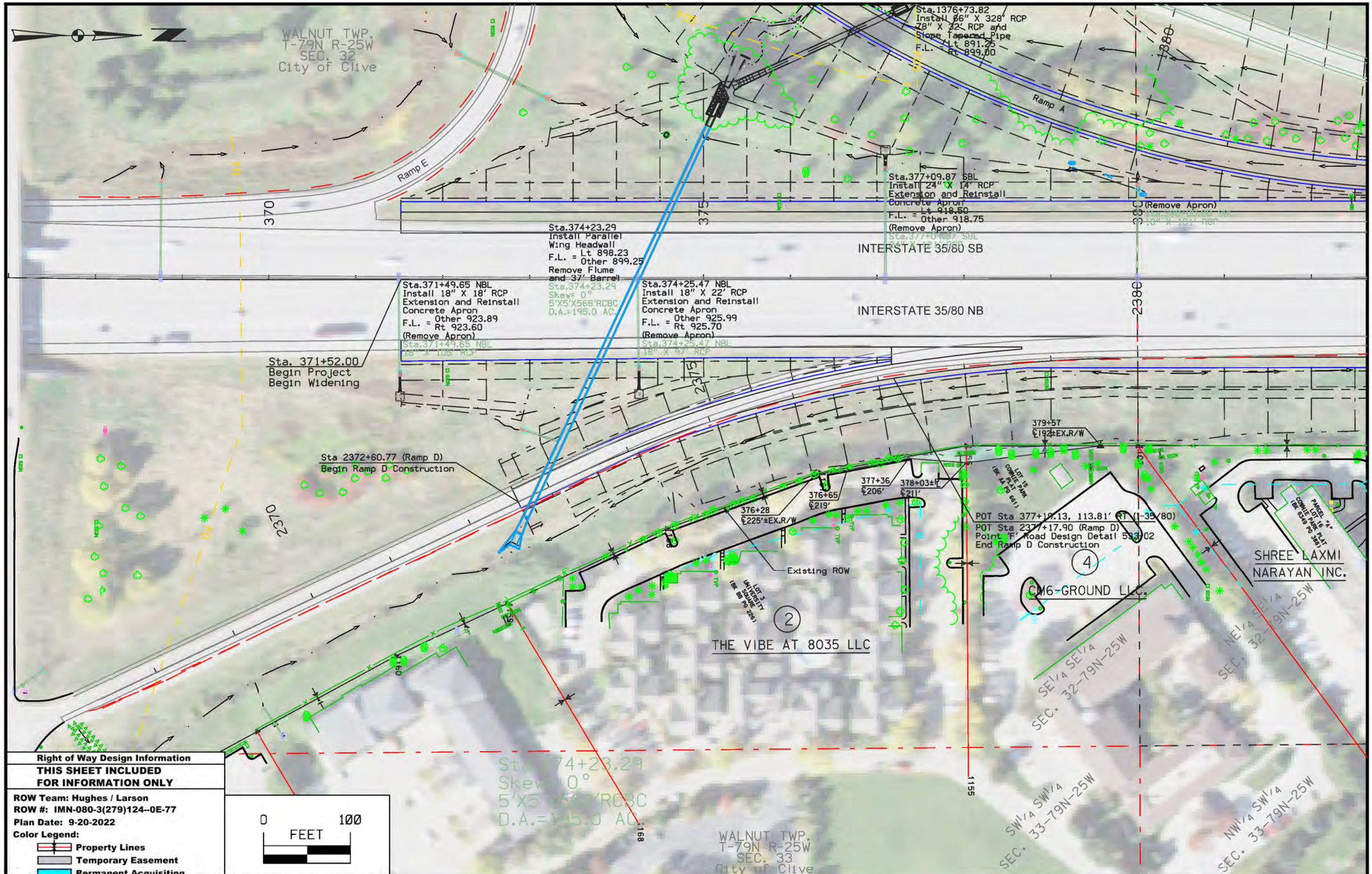
Right of Way Design Information
THIS SHEET INCLUDED FOR INFORMATION ONLY

ROW Team: Hughes / Larson
ROW #: IMN-080-3(279)124--0E-77
Plan Date: 10-13-2022
Color Legend:
- Property Lines
- Temporary Easement
- Permanent Acquisition

0 100
FEET

FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER H.1

5:44:48 PM 10/13/2022 CHUGHES pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\7708006015\ROW\77080279.sht



Right of Way Design Information

THIS SHEET INCLUDED FOR INFORMATION ONLY

ROW Team: Hughes / Larson
ROW #: IMN-080-3(279)124--0E-77
Plan Date: 9-20-2022
Color Legend:
- Property Lines
- Temporary Easement
- Permanent Acquisition

FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER H.2

6:54:53 AM 9/20/2022 CHUGHES pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\7708006015\ROW\77080279.sht

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

NE¼ SE¼ SEC. 32-79-25

SE¼ NE¼ SEC. 32-79-25

CITY OF CLIVE

CHARLES I COLBY

381+66.15
℄367'±EX.R/W Cor.

382+77
℄327'±EX.R/E

382+42
℄344'

NW 118th ST

8"X48' PVC

SUBJ TO RECREATIONAL TRAIL EASEMENT
CORPORATE WOODS OFFICE PARK PLAT 1

CORPORATE WOODS OFFICE PARK PLAT 1
(BOOK 10367 PAGE 632)

LOT 1
CORPORATE WOODS OFFICE PARK PLAT 1

385

1385

390

Sta.382+98.23 SBL
Install 18" X 56' RCP
Extension and Reinstall
Concrete Apron
F.L. = Lt 922.95
Other 924.51
(Remove Apron)

Ramp A

POT Sta 1382+75.00 (Ramp A)
POT Sta 382+76.60, 129.89' LT (I-35/80)
Point 'M' Standard Road Plans PV-410
End Ramp A Construction

Sta.386+00.00 NBL
Install 18" X 36' RCP
Extension and Reinstall
Concrete FES
F.L. = Other 922.53
Rt 922.25
(Remove FES)

Sta.390+10.89 NBL
Install 24" X 32' RCP
Extension and
Concrete Apron
F.L. = Other 908.47
Rt 908.20
(Remove Apron)

INTERSTATE 35/80 SB

INTERSTATE 35/80 NB

3

MCR INVESTMENTS VI LLC,
MCR INVESTMENTS VII LLC

394+45
℄158'±EX.R/W

396+29±EX.R/W Cor.
℄163'

Sta.394+54.04 SBL
Install 18" X 26' RCP
Extension and Reinstall
Concrete Apron
Lt 902.10
F.L. = Other 902.34
(Remove Apron)

385+85±P
℄174'

391+01±P
℄179'

393+29
℄190'

395+04
℄179'

389+13
℄195'

PART OF LOT 3
WALNUT RIDGE PLAT 1
(BK X PG 563)

LOT 1
NATIONAL PORK PRODUCERS PLAT 1
(BK 6279 PG 623)

MERCY
DENTAL CLINIC PC

LOT 2
AEGON PLAT 1
(BK 7503 PG 192)

LOT 1
AEGON PLAT 1
(BK 7503 PG 192)

SHREE LAXMI
NARAYAN INC.

IS
REAL ESTATE
LLC

6

IOWA PORK PRODUCERS
ASSOCIATION

8

NATIONAL PORK PRODUCERS COUNCIL

Right of Way Design Information
THIS SHEET INCLUDED FOR INFORMATION ONLY

ROW Team: Hughes / Larson
ROW #: IMN-080-3(279)124--0E-77
Plan Date: 11-8-2022
Color Legend:
- Property Lines
- Temporary Easement
- Permanent Acquisition

0 100
FEET

FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER H.3

9:36:37 AM 11/8/2022 CHUGHES pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\7708006015\ROW\77080279.sht

POT Sta 408+40.48, 115.04' LT (I-35/80)
POT Sta 5408+41.80 (Ramp B)
Point 'F' Road Design Detail 533-02
Begin Ramp C Construction

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

SE¼ NE¼
SEC. 32-79N-25W

NE¼ NE¼
SEC. 32-79N-25W

SUBJ TO RECREATIONAL TRAIL EASEMENT
CORPORATE WOODS OFFICE PARK PLAT 1
LOT 1

LOT 4
STATE FARM
(BOOK 5692 PAGE 452)

5
LOVES TRAVEL STOPS &
COUNTRY STORES INC.

3
MCR INVESTMENTS VI LLC,
MCR INVESTMENTS VII LLC

396+29±EX.R/W Cor.
℄163'

400+46
℄184'±Ex.R/W

401+62
℄201'

403+92±R
℄221'

408+42
℄220'

408+15
℄208±EX.R/W

410+24
℄231'

5405

5410

Sta.399+04.47 SBL
Install 18" X 28' RCP
Extension and Reinstall
Concrete FES
F.L. - Lt 885.25
Other 885.53
(Remove FES)
Sta.399+04.47 SBL
18" X 109' RCP

Ramp C

Wall 'C'
828'-5 x Var. Height
MSE Retaining Wall

Sta. 404+12.00
Stop Widening

Sta. 408+21.57
Begin Paving

INTERSTATE 35/80 SB

INTERSTATE 35/80 NB

Wall 'A'
615'-3 x Variable Height
MSE Retaining Wall

4410

Ramp B

407+48
℄214'±EX.R/W

395+04
℄179'

397+83.66
℄192±EX.R/W Cor.

F04

Wall 'A'
615'-3 x Variable Height
MSE Retaining Wall

407+15±R
℄276'

408+21
℄234'

LOT 1
NATIONAL PORK
PRODUCERS PLAT 1
(BK 6279 PG 623)

8
NATIONAL PORK
PRODUCERS COUNCIL

1
CITY OF CLIVE

TEMPORARY EASEMENT
TO SHAPE

1
CITY OF CLIVE

LOT 4
HOLMES OLDSMOBILE HONDA
AN AUDITOR'S PLAT
(BK 44 PG 807)

10
DEALER PROPERTIES
114 LLC

Right of Way Design Information
THIS SHEET INCLUDED FOR INFORMATION ONLY

ROW Team: Hughes / Larson
ROW #: IMN-080-3(279)124--0E-77
Plan Date: 11-8-2022
Color Legend:
- Property Lines
- Temporary Easement
- Permanent Acquisition

0 100
FEET

FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER H.4

9:52:10 AM 11/8/2022 CHUGHES pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\7708006015\ROW\77080279.sht

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

NW¼ NE¼ SEC. 32-79N-25W

NE¼ NE¼ SEC. 32-79N-25W

Pedestrian Underpass

LOT 4
STATE FARM
(BOOK 5692 PAGE 452)

5
LOVES TRAVEL STOPS &
COUNTRY STORES INC.

Sta.5415+73.50
Install 30" X 164' RCP
and Concrete Aprons
F.L. = Lt 863.63
Rt 871.25
(Remove)
Sta.1415+45 Skew 20°
24" X 165' RCP

Hickman Road EB

Hickman Road WB

I-80

I-35

417+57±EX.R/W
℄496'

414+14
℄346'

415+40
℄375'

413+97
℄330'

411+50
℄263'

410+24
℄231'

411+57
℄232'

Wall 'C'
628'-5 x Var. Height
MSE Retaining Wall

Ramp C

Sta.412+24.10 SBL
Install 18" X 14' RCP
Extension and Reinstall
Concrete FES
Lt 887.66
F.L. = Other 887.38
(Remove FES)

Sta.415+49.20 SBL
Install 18" X 56' RCP
Extension and Reinstall
Concrete Apron
Lt 893.68
F.L. = Other 894.65
(Remove Apron)

Sta. 418+34.10
Stop Paving

INTERSTATE 35/80 SB

INTERSTATE 35/80 NB

Wall 'South Abutment'
461'-7 x Variable Height
MSE Retaining Wall

SW¼ SE¼ SEC. 29-79N-25W

TEMPORARY EASEMENT
TO SHAPE
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

LOT 8
HERITAGE PARK
PLAT 1

Anticipated
Soil Nail

TEMPORARY EASEMENT
TO SHAPE
17

SUBTERRANEAN EASEMENT
FOR SOIL NAIL WALL

PARCEL
2016-146

S & S
HERITAGE PARK LLC

LOT 9
HERITAGE PARK
PLAT 1

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

421+06±P
℄516'

Water Main Easement

421+82
℄447'

Pedestrian Overpass

422+36
℄367'±EX.R/W

422+76
℄355'±EX.R/W

423+84
℄337'

425+16
℄281'

SE¼ SE¼ SEC. 29-79N-25W

LOT 10
HERITAGE PARK
PLAT 1

Ramp C

Pedestrian Underpass
Sta.423+80.00 SBL
Install 18" X 154' RCP
Intake and Apron to
F.L. = Lt 898.30
Other 904.50

Sta. 420+70.81
Resume Paving

(Remove FES. Plug
and Abandon Pipe)

INTERSTATE 35/80 SB

INTERSTATE 35/80 NB

Wall 'North Abutment'
780'-11 x Variable Height
MSE Retaining Wall

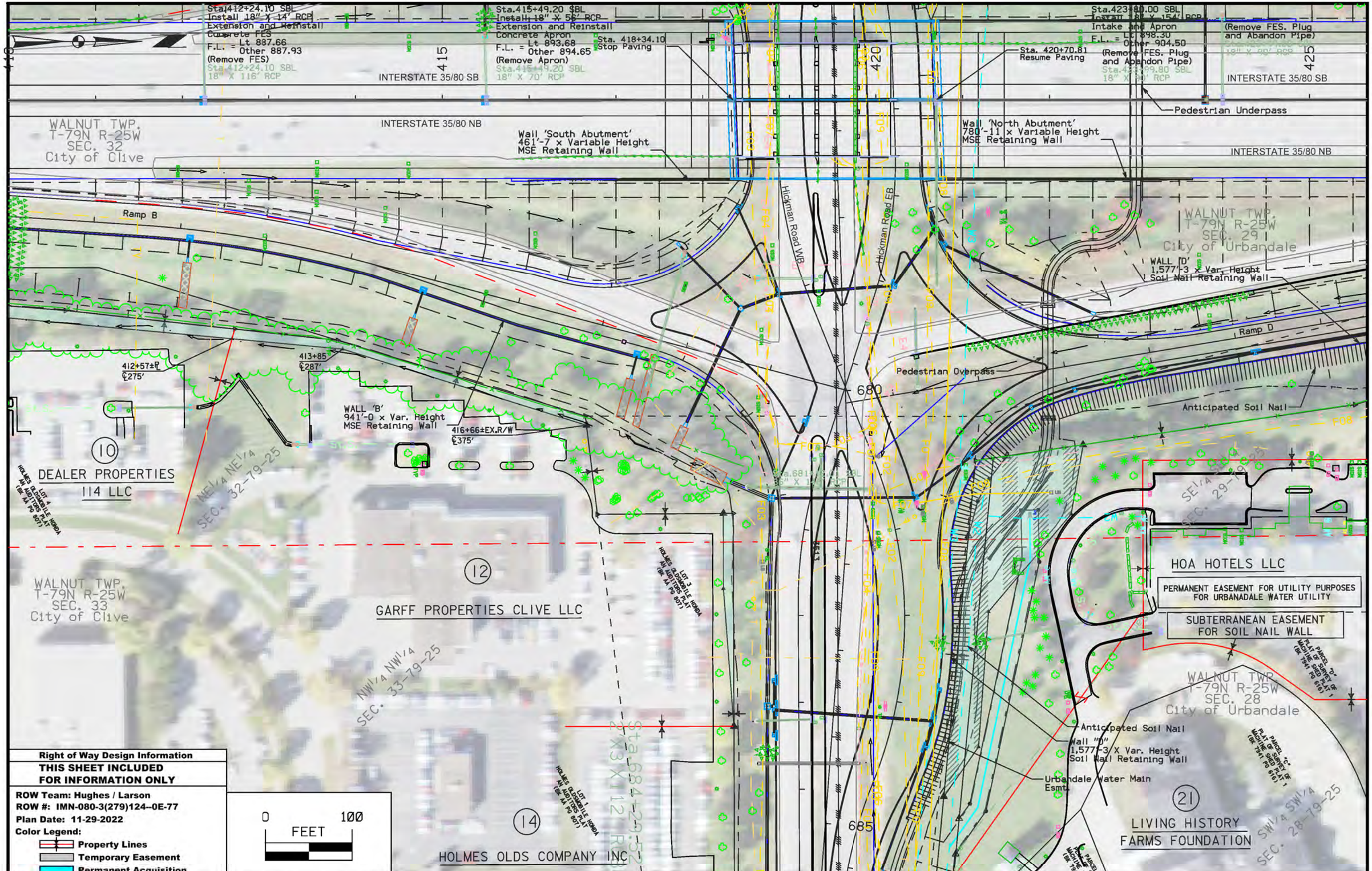
Right of Way Design Information
THIS SHEET INCLUDED FOR INFORMATION ONLY

ROW Team: Hughes / Larson
ROW #: IMN-080-3(279)124--0E-77
Plan Date: 11-15-2022
Color Legend:
- Property Lines
- Temporary Easement
- Permanent Acquisition

0 100
FEET

FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER H.5

12:07:16 PM 11/15/2022 CHUGHES pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\7708006015\ROW\77080279.sht



Right of Way Design Information

THIS SHEET INCLUDED FOR INFORMATION ONLY

ROW Team: Hughes / Larson
ROW #: IMN-080-3(279)124--0E-77
Plan Date: 11-29-2022
Color Legend:
- Property Lines
- Temporary Easement
- Permanent Acquisition

FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER H.6

11:15:18 AM 11/29/2022 CHUGHES pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\7708006015\ROW\77080279.sht

17
S & S
HERITAGE PARK LLC

PARCEL 2019-44 (BK 17275 PG 583)

LOT 10 HERITAGE PARK PLAT 1

LOT 11 HERITAGE PARK PLAT 1

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

19
60 ON SET LLC

SE1/4 SE1/4
SEC. 29-79-25

21
LIVING HISTORY
FARMS FOUNDATION

NE1/4 SE1/4
SEC. 29-79-25

LOT 2 STATE FARM ADD. BOOK "N" PAGE 309

21
LIVING HISTORY
FARMS FOUNDATION

TEMPORARY EASEMENT
TO SHAPE

3425
425+16 ℄281'
426+37±R ℄248'
426+60 ℄253'
428+24 ℄191'
429+93±R ℄222'
3430
429+93±R ℄208'
431+89 ℄229'
431+55 ℄213'
3435
434+10 ℄205'
435+29 ℄196'
436+76 ℄196'
438+08 ℄184'
439+50 ℄192'
440+59 ℄221'
440+55 ℄192'±Prop.R/W
440

Ramp C

Sta.432+58.10 SBL
Install 24" X 54" RCP
Extension and Reinstall
Concrete FES
Lt 916.56
F.L. = Other 919.36
(Remove FES)

(Lt Remove 36' and FES
Rt Remove 24' and FES
Plug and Abandon)

INTERSTATE 35/80 SB

INTERSTATE 35/80 SB

INTERSTATE 35/80 NB

Sta.427+99.24 NBL
Install 18" X 38' RCP
Extension and
Concrete Apron
F.L. = Other 908.38
Rt 908.00

(Remove Apron)

Sta.432+30.00
Install 36" X 276' RCP
EQ 36" X 60' LCP
Lt 915.20
F.L. = Other 916.67
Rt 917.02

6430

Sta. 434+00.00
End Paving
Resume Widening

6435

Sta. 436+90.11 NBL
Install 15" X 18' RCP
Extension and Reinstall FES
F.L. = Other 928.75
Rt 927.85
(Remove FES)

INTERSTATE 35/80 NB

Wall 'D'
1,577-3 x Var. Height
Soil Nail Retaining Wall

Ramp D

431+83 ℄194'
429+21 ℄242±EX.R/W
432+4 ℄262'
434+77 ℄205'
437+79 ℄213'
439+96 ℄194'
440+50 ℄179'±EX.R/W

STATE FARM ADD. BOOK "N" PAGE 309 LOT 15

POT Sta 433+91.70, 113.90' RT (I-35/80)
POT Sta 6433+90.47 (Ramp D)
Point 'F' Road Design Detail 533-02
End Ramp D Construction

SUBTERRANEAN EASEMENT
FOR SOIL NAIL WALL

STATE FARM ADD. BOOK "N" PAGE 309 LOT 16

21
LIVING HISTORY
FARMS FOUNDATION

TEMPORARY EASEMENT
TO SHAPE

Anticipated Soil Nail

21
LIVING HISTORY
FARMS FOUNDATION

0 100
FEET

Right of Way Design Information
THIS SHEET INCLUDED FOR INFORMATION ONLY

ROW Team: Hughes / Larson
ROW #: IMN-080-3(279)124--0E-77
Plan Date: 11-29-2022
Color Legend:
- **Property Lines**
- **Temporary Easement**
- **Permanent Acquisition**

FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER H.7

11:28:50 AM 11/29/2022 CHUGHES pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\7708006015\ROW\77080279.sht

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

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

TEMPORARY EASEMENT TO SHAPE

21 LIVING HISTORY FARMS FOUNDATION

TEMPORARY EASEMENT TO CONSTRUCT CULVERT

TEMPORARY EASEMENT TO CONSTRUCT TRAIL & SHAPE

LOT 1 STATE FARM ADD. BOOK "N" PAGE 309

SE¼ NE¼ SEC. 29-79-25

441+64 ℄248'±EX.R/W
441+32 ℄256'
441+32 ℄248'±EX.R/W
441+01 ℄256'
440+59 ℄221'
440+55 ℄192'±Prop.R/W
441+20±EX.R/W ℄192'
442+06 ℄319'
443+19 ℄362'
443+50 ℄362'
444+02 ℄311'
444+81 ℄248'±EX.R/W
446+50 ℄226'±EX.R/W
447+41 ℄260'
447+63 ℄242'
447+38 ℄207'±PROP.R/W
447+24 ℄213'
447+85 ℄189'
448+99 ℄171'
449+53 ℄246'
449+17 ℄211'
450+57 ℄249'
451+24 ℄272'
452+29 ℄259'
453+11 ℄236'
453+90 ℄242'
454+30 ℄191±PROP.R/W

Sta.444+87.88 SBL
Install 18" X 54" RCP
Extension and Reinstall
Concrete Apron
℄219'±PROP.R/W
F.L. = Lt 937.39
Other 9938.61
(Remove 95' CMP and Apron)

Sta.1439+22.00
Install 15" X 42' PVC
F.L. = Lt 923.65
Other 924.55

Sta.441+28.30 SBL
Install 24" X 22' RCP
Extension and Concrete Apron
F.L. = Lt 923.60
Other 924.02
(Remove Apron)
Sta.441+28.30 SBL
24" X 148' RCP

Sta.442+96.22
Lt Install 12' X 12' X 37' RCB
Extension and Parallel Wing Headwall
F.L. = Lt 892.40
Other 892.33
Rt Install 12' X 12' X 38' RCB
Extension and Parallel Wing Headwall
F.L. = Other 889.42
Rt 889.32
(Remove Flared Wing Headwall Lt & Rt)
Sta.442+96.22
and 12' X 12' RCB Extensions

Sta.449+89.20 SBL
Install 24" X 36' RCP
Extension and Reinstall
Concrete FES
F.L. = Lt 951.90
Other 952.34
(Remove FES)

Sta.453+49.24 SBL
Install 18" X 32' RCP
Extension and Reinstall
Concrete FES
F.L. = Lt 981.00
Other 981.38
(Remove FES)
Sta.453+49.24 SBL
18" X 47.2' RCP

INTERSTATE 35/80 SB

INTERSTATE 35/80 NB

440+50 ℄179'±EX.R/W
440+85 ℄232'
441+49.72 ℄242'±EX.R/W Cor.
442+20 ℄329'
443+33 ℄375'
443+70 ℄334'
445+28 ℄310'
449+97 ℄162'±EX.R/W
455+38 ℄203'

LOT 17 STATE FARM ADD. BOOK "N" PAGE 309

21 LIVING HISTORY FARMS FOUNDATION

TEMPORARY EASEMENT TO SHAPE

1440 8455 440 445 450 455 7455

Right of Way Design Information

THIS SHEET INCLUDED FOR INFORMATION ONLY

ROW Team: Hughes / Larson
ROW #: IMN-080-3(279)124--0E-77
Plan Date: 11-4-2022
Color Legend:
- **Property Lines**
- **Temporary Easement**
- **Permanent Acquisition**

0 100 FEET

FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER H.8

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

21
LIVING HISTORY
FARMS FOUNDATION

SE¼ NE¼
SEC. 29-79-25

NE¼ NE¼
SEC. 29-79-25

STATE FARM ADD.
BOOK "N" PAGE 309

POT Sta 8459+08.92 (Ramp C)
POT Sta 459+07.69, 113.81' LT (I-35/80)
Point 'F' Road Design Detail 533-02
Begin Ramp C Construction

458+67
℄182'±EX.R/W

459+21
℄188±EX.R/W

463+22
℄249±EX.R/W

POT Sta 8466+89.46 (Ramp C)
End Ramp C Construction

8460
8465
8470
9460
9465
9470

(Remove FES Lt and
Remove FES and 6' RCP Rt)
Sta.8463+56.87
Install 24" X 12' RCP
Ramp C Extension and Reinstall
Concrete FES
F.L. = Lt 972.10
Rt 973.03

Sta.464+00.00 SBL
Install 18" X 26' RCP
Extension and
Concrete Apron
Lt 973.90
Other 974.95
(Remove FES)

Sta.461+00.00 SBL
Install 18" X 22' RCP
Extension and Reinstall
Concrete FES
F.L. = Lt 971.22
Other 972.04
(Remove FES)

INTERSTATE 35/80 SB

Sta.468+00.00 SBL
Install 18" X 28' RCP
Extension and
Concrete Apron
Lt 975.56
F.L. = Other 976.13
(Remove FES)

Sta. 457+99.76 NBL
Install 24" EQ X 14' RCAP
Extension and Reinstall FES
F.L. = Other 968.91
Rt 968.39
(Remove FES)

INTERSTATE 35/80 NB

7460
7465
7470
10460
10465
10470

Ramp B

POT Sta 467+52.10, 117.58' RT (I-35/80)
POT Sta 1477+51.17 (Ramp F)
Point 'F' Standard Road Plans PV-414
End Ramp F Construction

Ramp F

Remove Pipe

Sta.10464+86.16
Install 24" X 130' RCP
Concrete Aprons
F.L. = Lt 969.08
Rt 968.08

455+38
℄203'

458+41
℄211'

459+38±R
℄228'

459+67
℄232±EX.R/W

STATE FARM ADD.
BOOK "N" PAGE 309
LOT 17

21
LIVING HISTORY
FARMS FOUNDATION

Sta 7463+48.69 (Ramp B)
End Ramp B Construction

WALNUT RIDGE BUSINESS
PARK PLAT
BOOK 12826 PAGE 730
LOT 8

22
RGBA LC

(Remove Apron Rt)
Sta.10462+45.40
Install 36" X 56' RCP
Extension and Reinstall
Concrete Apron
Other 966.99
F.L. = Rt 967.45

Right of Way Design Information
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ROW Team: Hughes / Larson
ROW #: IMN-080-3(279)124--0E-77
Plan Date: 9-20-2022
Color Legend:
- Property Lines
- Temporary Easement
- Permanent Acquisition

0 100
FEET

FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK	COUNTY	PROJECT NUMBER	IM-080-4(069)125--13-77	SHEET NUMBER H.9

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TEMPORARY EASEMENT TO SHAPE

(13)

HERITAGE PARK OWNERS ASSOCIATION INC

HAROLD DEAN LLC

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

TEMPORARY EASEMENT TO SHAPE

(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

SUBTERRANEAN EASEMENT FOR SOIL NAIL WALL

TEMPORARY EASEMENT TO SHAPE

(17)

S & S
HERITAGE PARK LLC

KGURBAN LLC

O.L. "X" HERITAGE PARK PLAT 1

LOT 5 HERITAGE PARK PLAT 1

LOT 6 HERITAGE PARK PLAT 1

LOT 7 HERITAGE PARK PLAT 1

LOT 8 HERITAGE PARK PLAT 1

LOT 9 HERITAGE PARK PLAT 1

LOT 10 HERITAGE PARK PLAT 1

SW1/4 SE1/4 SEC. 29-79N-25W

SE1/4 SE1/4 SEC. 29-79N-25W

Water Main Easement

Pedestrian Overpass

Ramp A

664+46 ℄121'±EX.R/W

664+63 ℄150'

665+39±Lot Line ℄144'

667+00 ℄184'

667+22±℄ ℄184'

668+68 ℄156'±EX.R/W

668+04 ℄157'

667+22±℄ ℄172'

668+82 ℄162'

668+86 ℄167'

669+96 ℄164'±EX.R/W

669+90 ℄170'

669+85 ℄174'

670+14±℄ ℄182'

670+40 ℄189'

670+77 ℄187'

670+90 ℄168'±EX.R/W

PARCEL 2016_146

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

DMWW Water Main Easement

Anticipated Soil Nail

Access Widened With (189) Project

Hickman Road WB

Hickman Road EB

Sta. 666+50.00
Begin Paving

Sta.667+86.53
Install 8' X 6' RCB
Extensions and Wing Headwalls
Lt Fl. = Inlet 888.85
Other 880.25
Rt Fl. = Inlet 887.84
Rt 87.20'
(Remove Flared Wing Headwalls Drop Inlet, and Part Barrel)

663+44 ℄122'

Connect to Existing 12" 22.5° Bend Sta. 659+81.98, 88.19 Rt

12" 22.5° Bend Sta. 659+56.95, 96.31 Rt

Relocate Water Main

TEMPORARY EASEMENT TO CONSTRUCT ENTRANCE & SHAPE

662+32±℄ ℄212'

661+65 ℄260'

+26.04 Prop. Type "A" Ent.

664+32 ℄138'±PROP.R/W

Pedestrian Underpass

LOT 2 MENARDS BUSINESS PARK PLAT 2

(7)

MENARD INC

661+65 ℄305'

662+33 ℄305'

663+32.64 ℄283'±℄

664+32 ℄279'

TEMPORARY EASEMENT TO CONSTRUCT ENTRANCE & SHAPE

(5)

LOVES TRAVEL STOPS & COUNTRY STORES INC.

LOT 4 STATE FARM (BOOK 5692 PAGE 452)

669+54 ℄235'

670+00 ℄242'

672+10±PROP.R/W ℄273'

Ramp C

Sta.672+40.27
4' X 5.75' X 128' RCB

Sta.671+73.50
Install 36" X 164' RCP and Concrete Aprons
E.I. = 868.63
Rt 671.25
(Remove)

NW1/4 NE1/4 SEC. 32-79N-25W

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

NE1/4 NE1/4 SEC. 32-79N-25W

Right of Way Design Information
THIS SHEET INCLUDED FOR INFORMATION ONLY

ROW Team: Hughes / Larson
ROW #: IMN-080-3(279)124--0E-77
Plan Date: 11-15-2022
Color Legend:
- Property Lines
- Temporary Easement
- Permanent Acquisition

0 100 FEET

FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER HE.1

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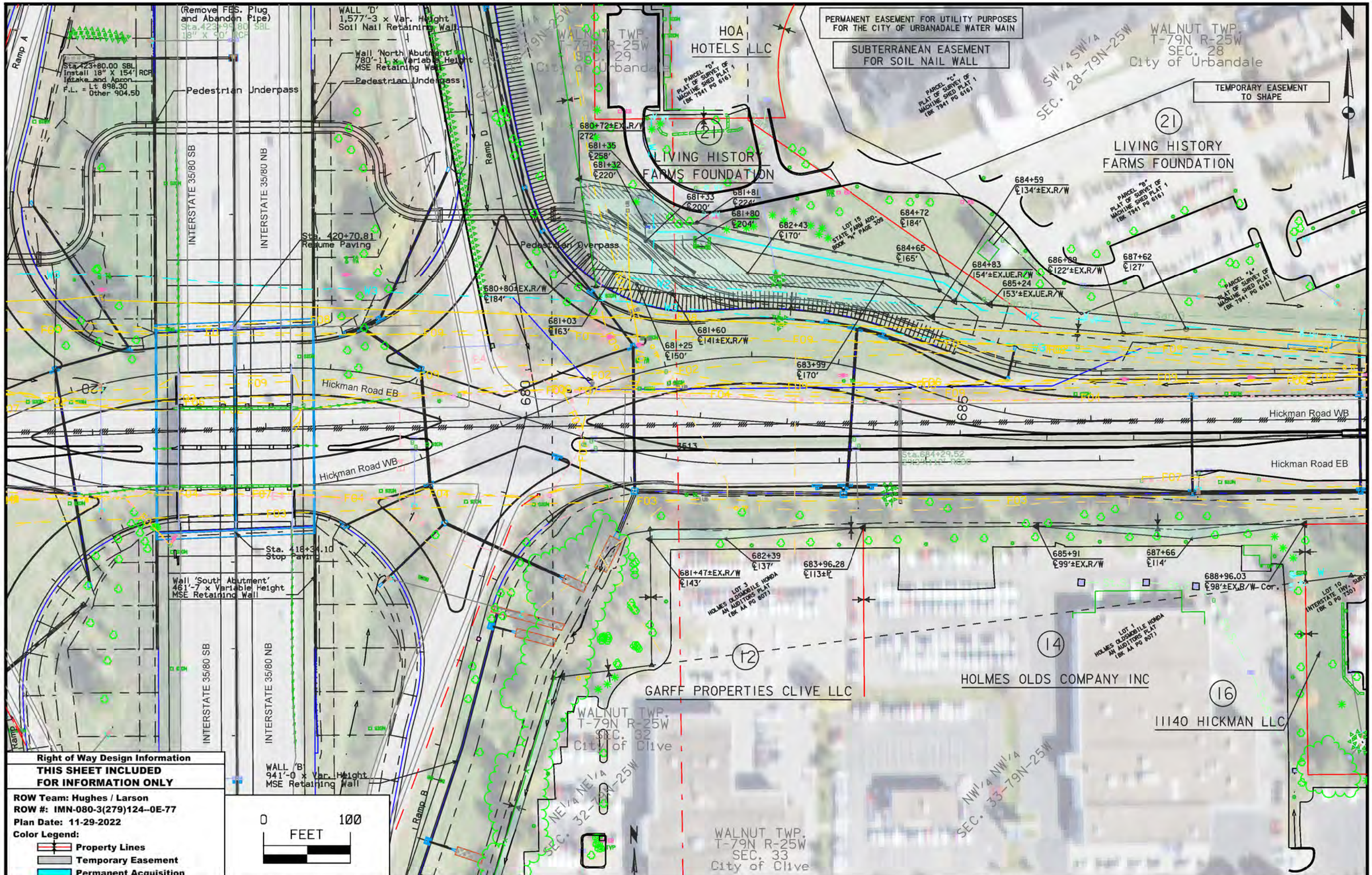

Right of Way Design Information

THIS SHEET INCLUDED FOR INFORMATION ONLY

ROW Team: Hughes / Larson
ROW #: IMN-080-3(279)124--0E-77
Plan Date: 11-29-2022
Color Legend:
- Property Lines
- Temporary Easement
- Permanent Acquisition

FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER HE.2

11:42:21 AM 11/29/2022 CHUGHES pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\7708006015\ROW\77080279.sht

TEMPORARY EASEMENT TO CONSTRUCT ENTRANCE & SHAPE

21

LIVING HISTORY FARMS FOUNDATION

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

Sta 1695+72.07
End Widening

Sta 1694+25.00
End Paving

TEMPORARY EASEMENT TO SHAPE

21

LIVING HISTORY FARMS FOUNDATION

SW1/4 SW1/4 SEC. 28-79N-25W

SE1/4 SW1/4 SEC. 28-79N-25W

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

PARCEL "B" PLAT OF SURVEY OF MACHINE SHED PLAT 1 (BK 7941 PG 616)

+83.45 Prop. Type "B" Ent.

690+93± Lot Line
℄176'

Protect Sign and Landscaping

PARCEL "A" PLAT OF SURVEY OF MACHINE SHED PLAT 1 (BK 7941 PG 616)

690+38
℄167'

690+35
℄124'

LOT 2 PLAT OF SURVEY OF MACHINE SHED PLAT 1 (BK 7941 PG 616)

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

Protect Sign

692+87
℄106'

693+00
℄83'

694+25
℄106'

695+00
℄91'

691+95
℄94'

692+13
℄92'

695+63
℄92'±PROP. R/W

697+01
℄95'

697+35
℄81'±EX.R/W

Urbandale Water Main Esmt.

700

Sta. 697+15.00
End Paving

Hickman Road WB

690+55±EX.R/W
℄86'

690+93± LOT LINE
℄87'

Hickman Road EB

Sta.697+79.80
30"RCPX110'

Protect Sign
688+96.03
℄98'±EX.R/W Cor.

1690

16

14

11140 HICKMAN LLC

HOLMES OLDS COMPANY INC

LOT 10 INV. SUB. (BK Q PG 730)

+78.45 Prop. Type "B" Ent.

LOT "B" INTERSTATE INV. SUB. (BK Q PG 730)

+84.26 Prop. Type "B" Ent.

TEMPORARY EASEMENT TO CONSTRUCT ENTRANCES

NW 111th Street

+09.24 Prop. Type "B" Ent.

LOT "D" INTERSTATE INV. SUB. (BK Q PG 730)

TEMPORARY EASEMENT TO CONSTRUCT ENTRANCE & SHAPE

LOT 3 CLIVE CENTRE SHOPPES PLAT 1 (BK 11646 PG 289-298)

18

CLIVE CENTRE SHOPPES LC

NW1/4 NW1/4 SEC. 33-79N-25W

NE1/4 NW1/4 SEC. 33-79N-25W

RAVENWOOD HIGHLANDR II LC

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

TEMPORARY EASEMENT TO CONSTRUCT ENTRANCE & SHAPE

20

CCT INVESTMENTS LLC

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

LOT 2 CLIVE CENTRE SHOPPES PLAT 1 (BK 11646 PG 289-298)

Right of Way Design Information

THIS SHEET INCLUDED FOR INFORMATION ONLY

ROW Team: Hughes / Larson
ROW #: IMN-080-3(279)124--0E-77
Plan Date: 9-21-2022
Color Legend:
- **Property Lines**
- **Temporary Easement**
- **Permanent Acquisition**

0 100 FEET

FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER HE.3

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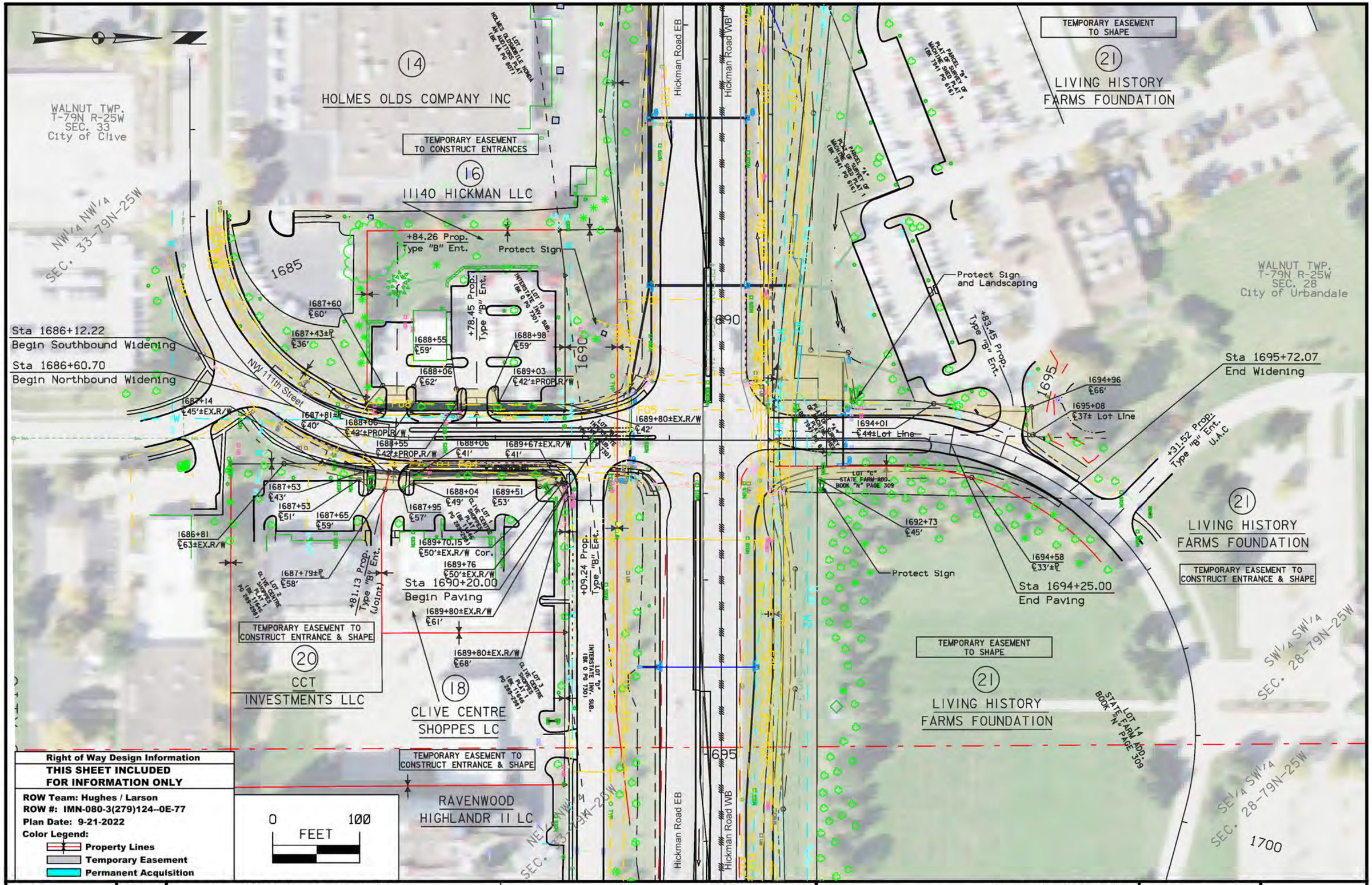

FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER HE.4

11:55:52 AM 11/29/2022 CHUGHES pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\7708006015\ROW\77080279.sht

108-23A
08-01-08

TRAFFIC CONTROL PLAN

Unless absolutely necessary or specified in the staging plans, traffic lanes are intended to be a minimum width of 12'. Any traffic lane width changes require the Engineer's approval.

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 specification.

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 Specifiactions and Supplemental Specifications shall apply.

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

Through traffic will be maintained on I-35/80, US 6, and NE 111th Street throughout the project corridor at all times. The Contractor shall be responsible for installing and maintaining temporary and permanent signing along the project corridor.

Access for garbage and postal service must be maintained at all times unless arranged otherwise by agreement between the Contractor and property owner.

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.

Refer to the remaining J-Sheets for special layouts for each individual stage of construction.

1. Interstate 35/80
   No lane closures will be allowed on I-35/80 from 6:00 AM to 8:00 PM; all day on Fridays, Saturdays, Holidays, or during the dates of special events listed by the Engineer. These dates and times are considered "Peak Times." Temporary single lanes closures may be allowed on I-35/80 during "off-peak" travel periods, which is defined as daily from 8:00 PM to 6:00 AM from Sunday thru Friday. However the time, length, and duration of each lane closure shall be approved by the Resident Construction Engineer. The Iowa DOT reserves the right to modify these restrictions to accommodate specific contractor activities, unforeseen traffic conditions and special events. When reconstructing ramps, two adjoining ramps may be closed to traffic at the same time. All other ramps must remain open to traffic.

2. US Highway 6
   A minimum of 2 lanes of traffic in each direction will be maintained at all times, except for bridge removal, bridge replacement operations, and during the full roadway closure of US 6. For bridge operations, the Contractor will be allowed to have ___ full closures of all lanes for (time allowed). The Contractor will be allowed to have a full closure of US 6 at the I-35/80 interchange for (time allowed). During the full closure of US 6, right turn movements at the I-35/80 interstate ramps must remain open to traffic at all times.

3. NW 111th Street
   A minimum of 1 lane of traffic in each direction will be maintained, when the roadway is open to traffic. The street is allowed to be closed at the US 6 intersection. NW 111th Street traffic, north of the US 6 intersection, will be detoured to use the NW 108th Street and US 6 intersection to access businesses along NW 111th Street. NW 111th Street traffic, south of the US 6 intersection, will be detoured to use the NW 108th Street and US 6 intersection to access businesses along the US 6 frontage road. NW 111th Street traffic, south of the US 6 intersection, will be detoured along US 6, NW 100th Street, and University Avenue to access businesses along NW 111th Street or the access US 6.

111-01
04-17-12

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(266)125-13-77	NB 35/80 Bridge Over Walnut Crk
IM-080-3(267)125-13-77	NB 35/80 Bridge Over US 6
IM-080-3(268)125-13-77	RCB Culvert Extension
IM-080-3(271)125-13-77	SB 35/80 Bridge Over Walnut Crk
IM-080-3(272)125-13-77	SB 35/80 Bridge Over US 6
IM-080-3(273)125-13-77	RCB Culvert Extension

108-26A
08-01-08

STAGING NOTES

Interstate 35/80 and Highway 6 are high volume roadways, construction activity in the area will disrupt traffic on Interstate 35/80 and Highway 6. Therefore, it is advisable to adopt a construction sequence that directs activities in an orderly manner and minimizes disruptions to traffic as much as practical.

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 from the original plan, they shall submit a written alternative plan to the Resident Construction Engineer for approval.

Stage 1 - Bridge Construction, Pavement Widening and Ramp Reconstruction

Stage 1A - Traffic
Interstate 35/80
- Install traffic control on I-35/80 per Standard Road Plan TC-402, TC-416, and TC-420. Modify traffic control shown in the Standard Road Plans to utilize temporary barrier rail as shown in the plans.
- Shift northbound and southbond traffic to use the inside shoulders. Reduce lane widths to 11-feet wide and maintain three lanes of traffic in both directions. Maintain auxiliary lanes between interchanges in both directions. Maintain ramp traffic at all of the interchanges throughout this project.

Highway 6
- Install traffic control on US 6 per Standard Road Plan TC-402 and TC-418. Modify traffic control shown in the Standard Road Plans to utilize temporary barrier rail as shown in the plans.
- Reduce US 6 traffic to two lanes in both directions.

Stage 1A - Construction
Interstate 35/80
- Remove the outside of the existing bridge over US 6.
- Remove the outside shoulder of existing northbound and southbound lanes.
- Remove the outside lane and shoulder of the existing northbound and southbound lanes at the US 6 bridge.
- Construct retaining walls at the US 6 bridge and along the ramps at the US 6 interchange.
- Construct outside lanes of the northbound and southbound bridge over US 6.
- Construct the bridge widening of both the northbound and south bound bridge over Walnut Creek.
- Construct culvert extensions along the northbound and southbound lanes.
- Construct the outside of the pedestrian underpass, north of US 6.
- Grade and pave northbound and southbond pavement widening.
- Grade and pave the outside northbound and southbound lanes from Sta 408+21.57 to Sta 434+00.00. Gap construction at the existing ramps.

Highway 6
- Construct culvert extension at Sta 667+00.
- Construct the outside of the pedestrian underpass, west of the I-35/80 interchange.
- Construct proposed strom sewer.
- Construct retainting walls at the pedestrian underpass.
- Grade and pave proposed pavement, which is outside of the existing pavement.

Stage 1B - Traffic
Interstate 35/80
- Maintain traffic control from Stage 1A.
- Close Ramp D at the US 6 interchange and Ramp B at the Douglas interchange to traffic.
- Install additional traffic control on I-35/80 for the ramp closures per Standard Road Plan TC-417.

Highway 6
- Maintain traffic control from Stage 1A.

Stage 1B - Construction
Interstate 35/80
- Construction operations in this stage can be completed concurrently as construction operations in Stage 1A.
- Remove existing ramp pavement.
- Construct retaining wall in the Ramp D infield at the US 6 interchange.
- Construct pedestrian bridge over Ramp D at the US 6 interchange.
- Construct proposed storm sewer and culverts at the interstate ramps.
- Grade and pave Ramp D at the US 6 interchange.
- Grade and pave Ramp B at the Douglas interchange.
- Grade and pave temporary pavement required in the next stage.

Highway 6
- Construction operations in Stage 1A can be worked in this stage.

Stage 1C - Traffic
Interstate 35/80
- Maintain traffic control from Stage 1A.
- Remove traffic control for the ramp closures for Ramp D at the US 6 interchange and Ramp B at the Douglas interchange.
- Open Ramp D at the US 6 interchange and Ramp B at the Douglas interchange to traffic.
- Close Ramp D at the University interchange and Ramp B at the US 6 interchange to traffic.
- Install additional traffic control on I-35/80 for the ramp closures per Standard Road Plan TC-417.

Highway 6
- Maintain traffic control from Stage 1A.

Stage 1C - Construction
Interstate 35/80
- Construction operations in this stage can be completed concurrently as construction operations in Stage 1A.
- Remove existing ramp pavement.
- Construct proposed storm sewer and culverts at the interstate ramps.
- Grade and pave Ramp D at the University interchange.
- Grade and pave Ramp B at the US 6 interchange.
- Grade and pave temporary pavement required in the next stage.

STAGING NOTES

Highway 6
- Construction operations in Stage 1A can be worked in this stage.

Stage 1D - Traffic
Interstate 35/80
- Maintain traffic control from Stage 1A.
- Remove traffic control for the ramp closures for Ramp D at the University interchange and Ramp B at the US 6 interchange.
- Open Ramp D at the University interchange and Ramp B at the US 6 interchange to traffic.
- Close Ramp A at the University interchange and Ramp C at the US 6 interchange to traffic.
- Install additional traffic control on I-35/80 for the ramp closures per Standard Road Plan TC-417.

Highway 6
- Maintain traffic control from Stage 1A.

Stage 1D - Construction
Interstate 35/80
- Construction operations in this stage can be completed concurrently as construction operations in Stage 1A.
- Remove existing ramp pavement.
- Construct proposed storm sewer and culverts at the interstate ramps.
- Grade and pave Ramp A at the University interchange.
- Grade and pave Ramp C at the US 6 interchange.
- Grade and pave temporary pavement required in the next stage.

Highway 6
- Construction operations in Stage 1A can be worked in this stage.

Stage 1E - Traffic
Interstate 35/80
- Maintain traffic control from Stage 1A.
- Remove traffic control for the ramp closures for Ramp A at the University interchange and Ramp C at the US 6 interchange.
- Open Ramp A at the University interchange and Ramp C at the US 6 interchange to traffic.
- Close Ramp A at the US 6 interchange and Ramp C at the Douglas interchange to traffic.
- Install additional traffic control on I-35/80 for the ramp closures per Standard Road Plan TC-417.

Highway 6
- Maintain traffic control from Stage 1A.

Stage 1E - Construction
Interstate 35/80
- Construction operations in this stage can be completed concurrently as construction operations in Stage 1A.
- Remove existing ramp pavement.
- Construct retaining walls for Ramp A at the US 6 interchange.
- Construct pedestrian bridge over Ramp A at the US 6 interchange.
- Construct proposed storm sewer and culverts at the interstate ramps.
- Grade and pave Ramp A at the US 6 interchange.
- Grade and pave Ramp C at the Douglas interchange.
- Grade and pave temporary pavement required in the next stage.

Highway 6
- Construction operations in Stage 1A can be worked in this stage.

Stage 2 - Pavement Widening and Reconstruction

Stage 2A - Traffic
Interstate 35/80
- Install traffic control on I-35/80 per Standard Road Plan TC-402, TC-416, and TC-420. Modify traffic control shown in the Standard Road Plans to utilize temporary barrier rail as shown in the plans.
- Remove traffic control for the ramp closures for Ramp A at the University interchange and Ramp C at the US 6 interchange.
- Open Ramp A at the US 6 interchange and Ramp C at the Douglas interchange to traffic.
- Shift northbound and southbond traffic to use the newly constructed outside shoulders. Reduce lane widths to 11-feet wide and maintain three lanes of traffic in both directions. Maintain auxiliary lanes between interchanges in both directions. Maintain ramp traffic at all of the interchanges throughout this project.

Highway 6
- Maintain traffic control from Stage 1A.
- Install additional temporary barrier rail at the Interstate 35/80 bridge as shown in the plans.
- Utilize night time closures for bridge removal operations.
- Install traffic control on US 6 and surrounding areas per Standard Road Plan TC-252 during night time closures.

Stage 2A - Construction
Interstate 35/80
- Remove the inside of the existing bridge of US 6.
- Remove the inside lanes and shoulder of the existing northbound and southbound lanes at the US 6 bridge.
- Construct retaining walls at the US 6 bridge.
- Construct inside lanes of the northbound and southbound bridge over US 6.
- Construct the inside of the pedestrian underpass, north of US 6.
- Grade and pave the inside northbound and southbound lanes from Sta 408+21.57 to Sta 434+00.00.
- Grade and pave the existing infields of the Douglas loop ramps.
- Remove existing median barrier rail north and south of the reconstrucion portion of the interstate.

Highway 6
- Remove existing bridge piers at the I-35/80 bridge.

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08-01-08

STAGING NOTES

Stage 2B - Traffic
Interstate 35/80
- Install traffic control on I-35/80 per Standard Road Plan TC-402, TC-416, and TC-420. Modify traffic control shown in the Standard Road Plans to utilize temporary barrier rail as shown in the plans.
- Maintain three lanes of traffic in both directions. Maintain auxiliary lanes between interchanges in both directions. Maintain ramp traffic at all of the interchanges throughout this project.
- Shift northbound traffic to use the newly constructed inside shoulder and median at the US 6 bridge.
- Shift northbound traffic, north of the reconstruction section of the interstate, to use the inside shoulder.
- Close Ramp F at the Douglas interchange to traffic.
- Install additional traffic control on I-35/80 for the ramp closure per Standard Road Plan TC-417.

Highway 6
- Maintain traffic control from Stage 2A.

Stage 2B - Construction
Interstate 35/80
- Remove temporary pavement used in Stage 2B for the temporary barrier rail placement from 408+21.57 to Sta 434+00.00.
- Remove the existing northbound shoulder at the Douglas interchange.
- Remove the existing Ramp F pavement at the Douglas interchange
- Construct proposed storm sewer and culverts.
- Grade and pave the center northbound lane from Sta 408+21.57 to Sta 434+00.00.
- Grade and pave northbound lanes at the Douglas interchange.
- Grade and pave Ramp F and the Douglas interchange.

Highway 6
- Construct retaining wall at the west Menards entrance.

Stage 2C - Traffic
Interstate 35/80
- Install traffic control on I-35/80 per Standard Road Plan TC-402, TC-416, and TC-420. Modify traffic control shown in the Standard Road Plans to utilize temporary barrier rail as shown in the plans.
- Maintain three lanes of traffic in both directions. Maintain auxiliary lanes between interchanges in both directions. Maintain ramp traffic at all of the interchanges throughout this project.
- Shift southbound traffic to use the newly constructed inside shoulder and median at the US 6 bridge.
- Shift southbound traffic, north of the reconstruction section of the interstate, to use the inside shoulder.
- Shift northbound lanes to the newly constructed pavement.
- Remove traffic control for the ramp closures for Ramp F at the Douglas interchange.
- Open Ramp F at the Douglas interchange to traffic.
- Close Ramp E at the Douglas interchange to traffic.
- Install additional traffic control on I-35/80 for the ramp closure per Standard Road Plan TC-417.

Highway 6
- Maintain traffic control from Stage 2A.
- Install additional temporary barrier rail along the south side of US 6, east of the interchange.

Stage 2C - Construction
Interstate 35/80
- Remove temporary pavement used in Stage 2B for the temporary barrier rail placement from 408+21.57 to Sta 434+00.00.
- Remove the existing southbound shoulder at the Douglas interchange.
- Remove the existing Ramp E pavement at the Douglas interchange
- Construct proposed storm sewer and culverts.
- Grade and pave the center southbound lane from Sta 408+21.57 to Sta 434+00.00.
- Grade and pave southbound lanes at the Douglas interchange.
- Grade and pave Ramp E and the Douglas interchange.

Highway 6
- Construct retaining wall along the south side of US 6, east of the interchange.
- Construct proposed strom sewer.
- Grade and pave proposed pavement widening, west of the Lifetime intersection.

Stage 2D - Traffic
Interstate 35/80
- Install traffic control on I-35/80 per Standard Road Plan TC-402, TC-416, and TC-420. Modify traffic control shown in the Standard Road Plans to utilize temporary barrier rail as shown in the plans.
- Shift southbound lanes to the newly constructed pavement.

Highway 6
- Install traffic control on US 6 per Standard Road Plan TC-402 and TC-418. Modify traffic control shown in the Standard Road Plans to utilize temporary barrier rail as shown in the plans.

Stage 2D - Construction
Interstate 35/80
- Construct median barrier rail.

Highway 6
- Remove eastbound shoulder in between the interchange and 111th Street.
- Grade and pave temporary pavement to be used for Ramps B & D.

Stage 3 - Pavement Reconstruction

Stage 3A - Traffic
Interstate 35/80
- Remove temporary traffic control used for mainline I-35/80.
- Install traffic control on the I-35/80 ramps at the US 6 interchange per Standard Road Plan TC-416.

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08-01-08

STAGING NOTES

Highway 6
- Install traffic control on US 6 per Standard Road Plan TC-252.
- Close US 6 to thru traffic within the Interstate 35/80 interchange.
- Shift ramp traffic temporary pavement onto the newly constructed outside pavement lanes.
- Keep the interstate ramp right-turn movements open at all times to traffic.

NW 111th Street
- Install traffic control at US 6 per Standard Road Plan TC-252.

Stage 3A - Construction
Interstate 35/80
- None.

Highway 6
- Remove existing US 6 pavement.
- Construct the inside of the pedestrian underpass, west of the I-35/80 interchange.
- Construct storm sewer.
- Grade and pave proposed DDI pavement thru the interchange.
- Grade and pave temporary pavement.

NW 111th Street
- None.

Stage 3B - Traffic
Interstate 35/80
- Maintain traffic control from Stage 3A.

Highway 6
- Maintain traffic control from Stage 3A.
- Shift traffic for Ramps B & D onto newly constructed pavement.

NW 111th Street
- Maintain traffic control from Stage 3A.

Stage 3B - Construction
Interstate 35/80
- None.

Highway 6
- Remove temporary pavement used for Ramps B & D.
- Grade and pave temporary pavement along US 6.

NW 111th Street
- None.

Stage 3C - Traffic
Interstate 35/80
- Remove temporary traffic control used in the previous stages for the ramps at the US 6 interchange.

Highway 6
- Install traffic control on US 6 per Standard Road Plan TC-252, TC-402 and TC-418. Modify traffic control shown in the Standard Road Plans to utilize temporary barrier rail as shown in the plans.
- Open US 6 to traffic. Maintain two lanes of traffic in each direction. Traffic will utilize temporary pavement and the outside lanes of newly constructed pavement.
- Close the median at the 111th Street intersection.

NW 111th Street
- Install traffic control at US 6 per Standard Road Plan TC-252.

Stage 3C - Construction
Interstate 35/80
- None.

Highway 6
- Remove existing pavement.
- Construct storm sewer.
- Grade and pave the inside lanes and median.

NW 111th Street
- None.

108-26A
08-01-08

STAGING NOTES

Stage 3D - Traffic
Highway 6
- Install traffic control on US 6 per Standard Road Plan TC-252, TC-402 and TC-418.
- Shift traffic to the newly constructed inside lanes. Maintain two lanes of traffic in each direction.

NW 111th Street
- Install traffic control on NW 111th Steet per Standard Road Plan TC-252.
- Close NW 111th Street to thru traffic.

Stage 3D - Construction
Highway 6
- Remove temporary pavement.
- Construct storm sewer.
- Grade and pave the proposed outside lanes east of the interchange.

NW 111th Street
- Remove existing pavement.
- Construct storm sewer.
- Grade and pave NW 111th Street north of the Clive Center entrance.

Stage 3E - Traffic
Highway 6
- Remove temporary traffic control from the previous stage.
- Open all lanes to traffic.

NW 111th Street
- Install traffic control on NW 111th Steet per Standard Road Plan TC-252.

Stage 3E - Construction
Highway 6
- None.

NW 111th Street
- Remove existing pavement.
- Construct storm sewer.
- Grade and pave NW 111th Street at the Clive Center entrance.

Stage 3F - Traffic
NW 111th Street
- Install traffic control on NW 111th Steet per Standard Road Plan TC-202 and TC-252.

Stage 3F - Construction
NW 111th Street
- Dowel on the proposed median at the south entrance of Car City West.

113-2
04-16-13

PEDESTRIAN PATH CLOSURES

Refer to TC-601.

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

Location	Side	Type III Barricades* No.	Remarks
Highway 6			
Station 655+82	LT	2	Place closure east of the Stew Hansen entrance
Station 662+81	LT	1	Place closure along the Lifetime entrance
Station 663+69	LT	1	Place closure along the Lifetime entrance
NW 111th Street			
Station 1683+75	LT	1	Place closure east of the Smart Honda entrance
Station 1686+27	RT	1	Place closure east of the curb ramp

108-23B
10-17-17

* This is to only be used in conjunction with Tabulation 108-23A
Shaded area indicates times that lane closures are not allowed

TRAFFIC CONTROL CLOSURE TABLE(S)

	AM																								Noon	PM												
	12:00	12:30	1:00	1:30	2:00	2:30	3:00	3:30	4:00	4:30	5:00	5:30	6:00	6:30	7:00	7:30	8:00	8:30	9:00	9:30	10:00	10:30	11:00	11:30	12:00	12:30	1:00	1:30	2:00	2:30	3:00	3:30	4:00	4:30	5:00	5:30	6:00	6:30	7:00	7:30	8:00	8:30	9:00	9:30	10:00	10:30	11:00	11:30
SUN																																															
MON																																															
TUE																																															
WED																																															
THU																																															
FRI																																															
SAT																																															

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)	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

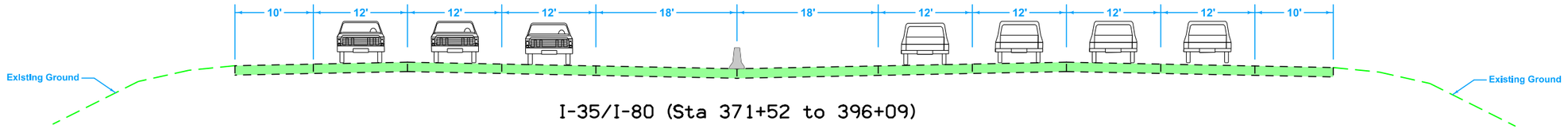
●	Channelizing Device		Crash Cushion (Temp or Perm)
X	Drum		Traffic Signal
◘	Temporary Lane Separator		Flagger
◆	Tubular Marker		Temporary Floodlighting
♦	Channelizer Marker		Traffic Sign
△	Concrete Barrier Marker		Type III Barricade
ς	Delineator		Type A Warning Light
	Temporary Barrier Rail		Direction of Traffic
	Pavement Removal		Safety Closure
	Sand Barrel Layout	1	Lane Identification

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

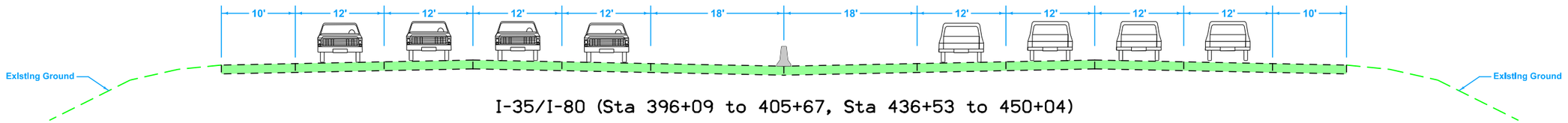
TRAFFIC CONTROL AND STAGING LEGEND AND SYMBOL INFORMATION SHEET

(COVERS SHEET SERIES J)

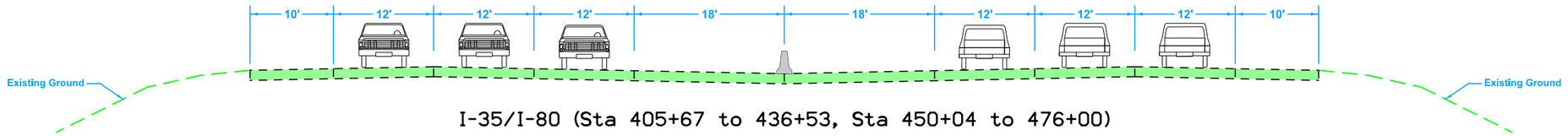
Stage 1



I-35/I-80 (Sta 371+52 to 396+09)



I-35/I-80 (Sta 396+09 to 405+67, Sta 436+53 to 450+04)



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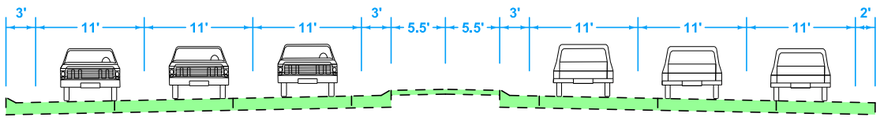
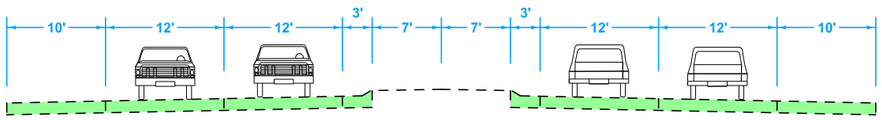
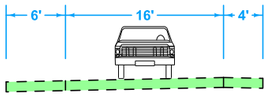


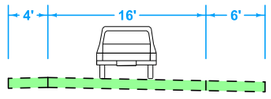
US 6 (Sta 656+10 to 672+40)



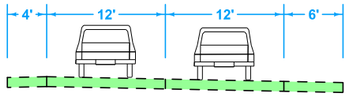
US 6 (Sta 680+18 to 691+05)



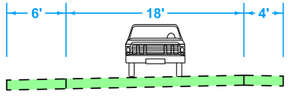
Univ Ramp A (Sta 1369+76 to 1389+33)
US 6 Ramp A (Sta 3424+07 to 3432+46)
US 6 Ramp C (Sta 5411+98 to 5418+50)



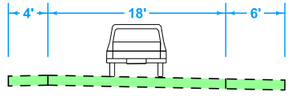
Univ Ramp D (Sta 2367+03 to 2377+04)
US 6 Ramp B (Sta 4411+68 to 4414+05)



US 6 Ramp D (Sta 6420+27 to 6430+59)



Douglas Ramp E (Sta 9473+01 to 9484+42)



Douglas Ramp F (Sta 10457+77 to 10470+46)

FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER J.5

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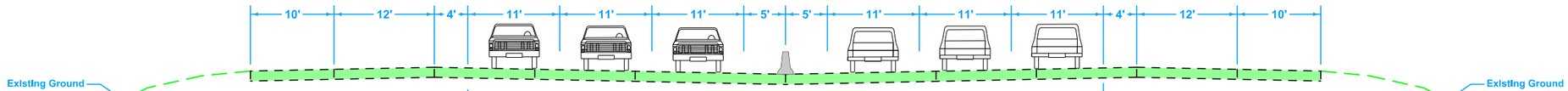
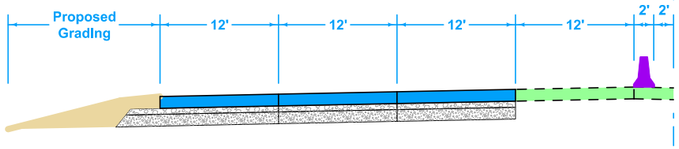
Stage 1A



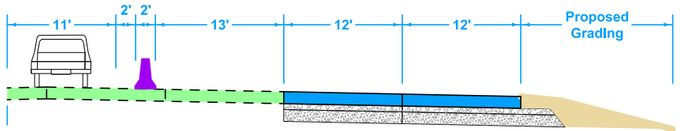
(Sta 388+75 to 395+17, Sta 408+86 to 414+00,
Sta 428+00 to 438+88, Sta 454+66 to 460+25)

I-35/I-80

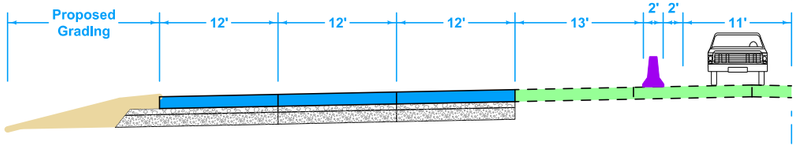
(Sta 408+86 to 413+00, Sta 428+00 to 434+40,
Sta 449+34 to 460+25)



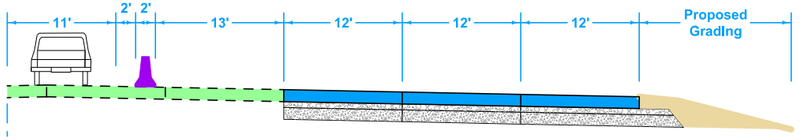
(Sta 371+52 to 382+75)



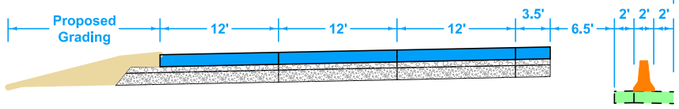
(Sta 371+52 to 376+00)



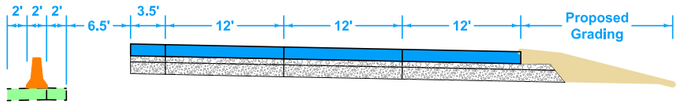
(Sta 396+09 to 404+11, Sta 439+00 to 451+78)



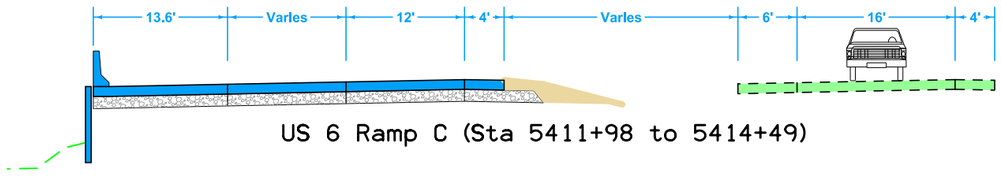
(Sta 387+00 to 404+11, Sta 437+00 to 446+19)



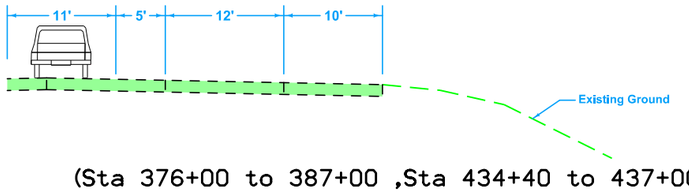
(Sta 414+00 to 428+00)



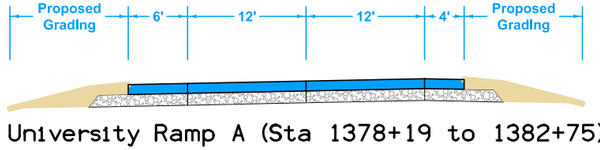
(Sta 413+00 to 428+00)



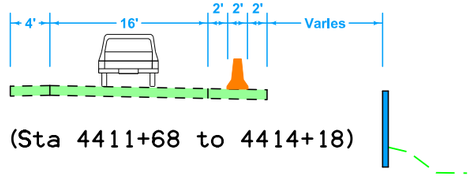
US 6 Ramp C (Sta 5411+98 to 5414+49)



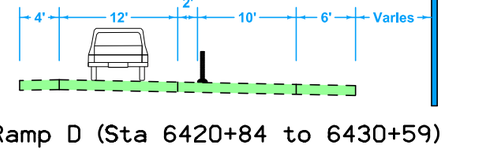
(Sta 376+00 to 387+00 ,Sta 434+40 to 437+00)



University Ramp A (Sta 1378+19 to 1382+75)



US 6 Ramp B (Sta 4411+68 to 4414+18)



US 6 Ramp D (Sta 6420+84 to 6430+59)

FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER J.6

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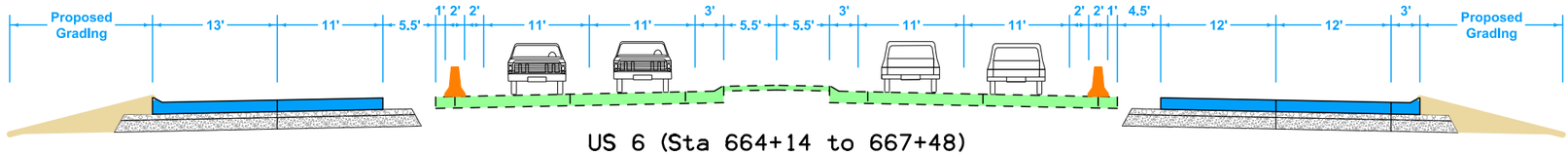
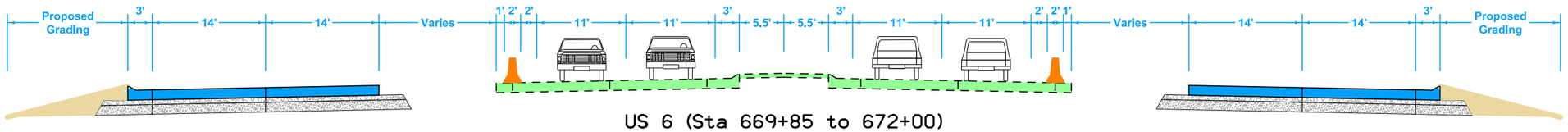
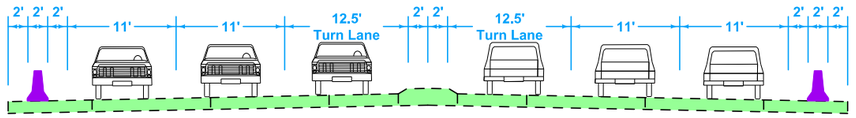
Stage 1A



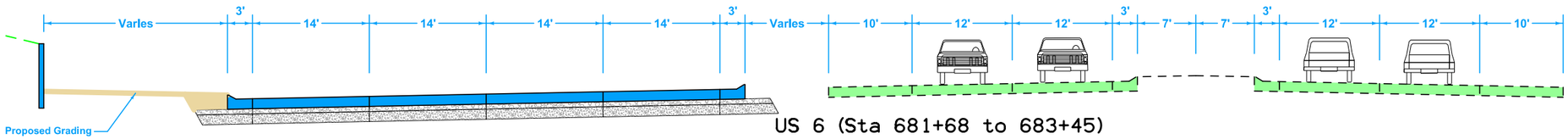
US 6 (Sta 664+14 to 667+48)



US 6 (Sta 669+85 to 672+00)

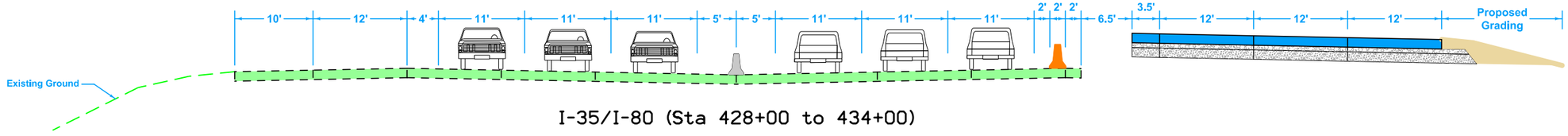


US 6 (Sta 675+07 to 677+96)

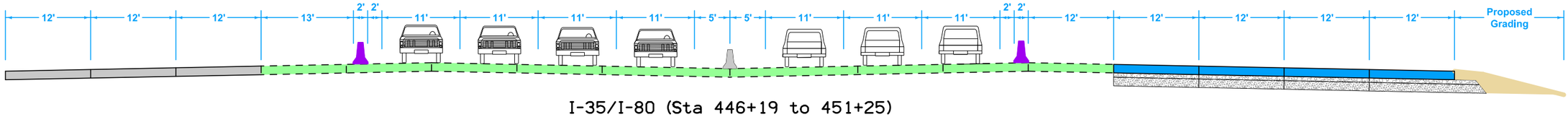


US 6 (Sta 681+68 to 683+45)

Stage 1B



I-35/I-80 (Sta 428+00 to 434+00)

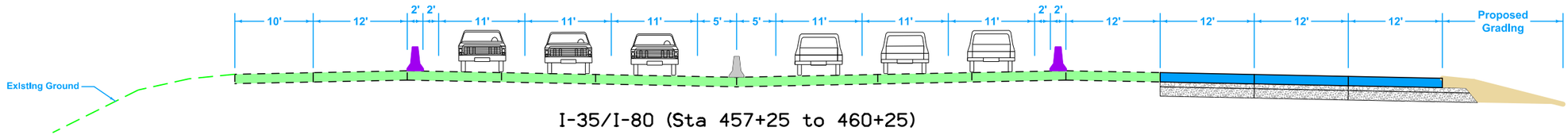


I-35/I-80 (Sta 446+19 to 451+25)

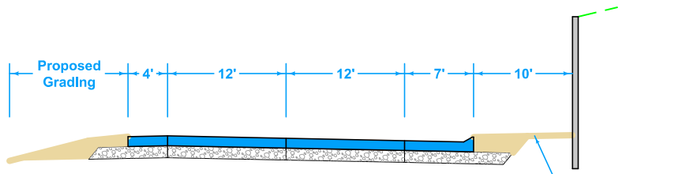
FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER J.7

1:53:58 PM 7/1/2022 ncarhoff pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\7708006015\Design_(069)_PrelimDesign\CADD_Files\Sheet_Files\SHT_77080069Z08_J05.dgn

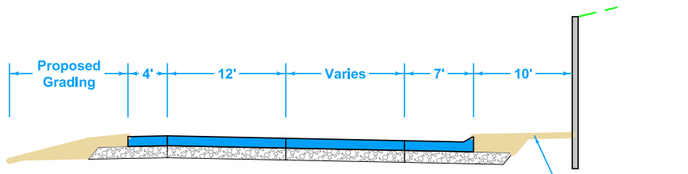
Stage 1B



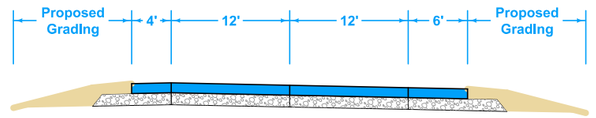
I-35/I-80 (Sta 457+25 to 460+25)



US 6 Ramp D (Sta 6423+62 to 6427+12)

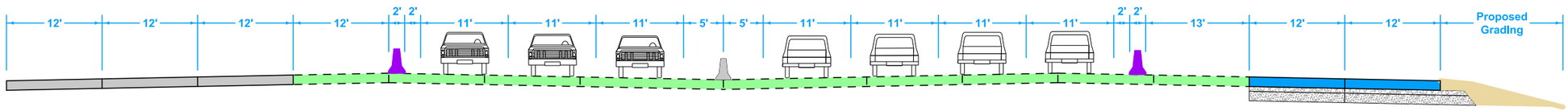


US 6 Ramp D (Sta 6427+12 to 6432+20)

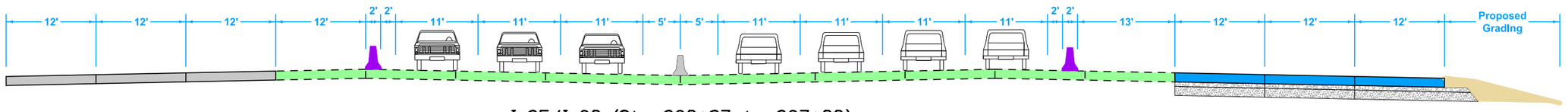


Douglas Ramp B (Sta 7457+25 to 7463+49)

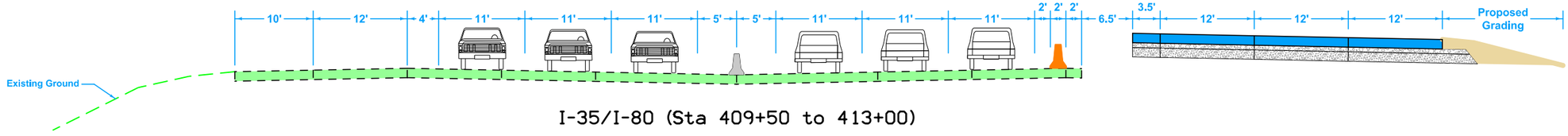
Stage 1C



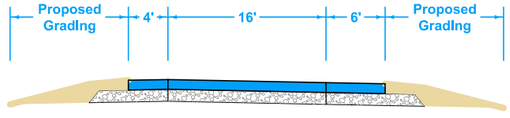
I-35/I-80 (Sta 376+00 to 377+17)



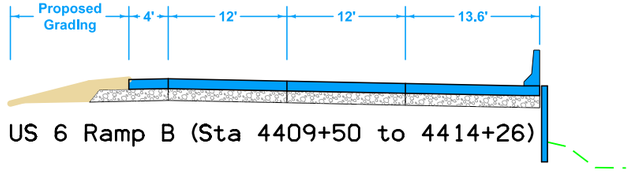
I-35/I-80 (Sta 380+27 to 387+00)



I-35/I-80 (Sta 409+50 to 413+00)



University Ramp D (Sta 2372+61 to 2377+18)

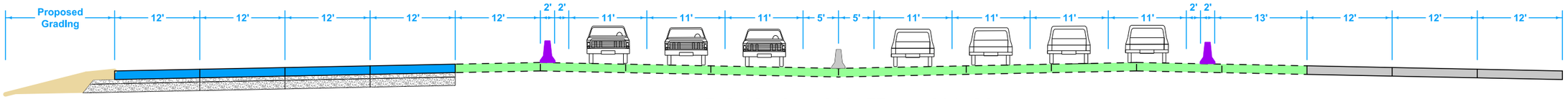


US 6 Ramp B (Sta 4409+50 to 4414+26)

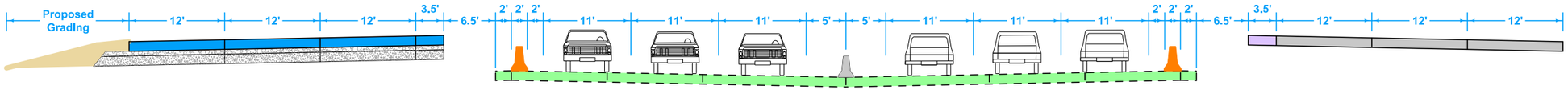
FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER J.8

1:54:01 PM 7/1/2022 ncarhoff pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\7708006015\Design_(069)_PrelimDesign\CADD_Files\Sheet_Files\SHT_77080069Z08_J05.dgn

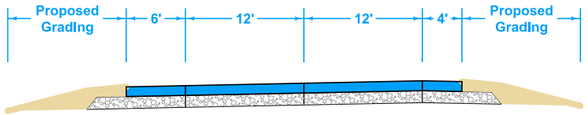
Stage 1D



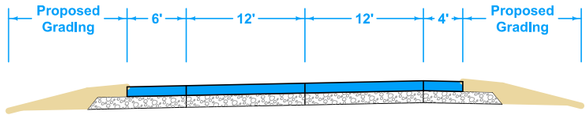
I-35/I-80 (Sta 388+75 to 396+09)



I-35/I-80 (Sta 408+93 to 414+00)

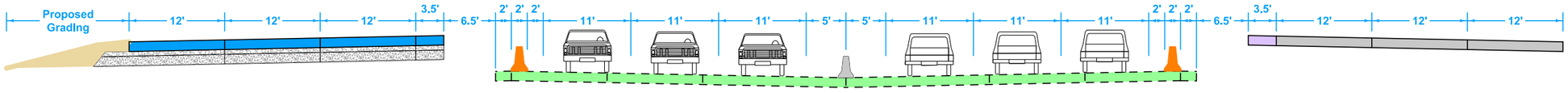


University Ramp A (Sta 1368+27 to 1378+19)

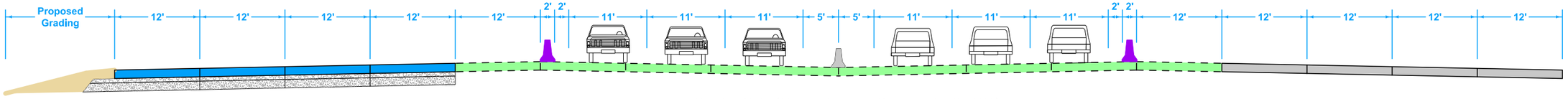


Douglas Ramp C (Sta 5414+49 to 5415+69)

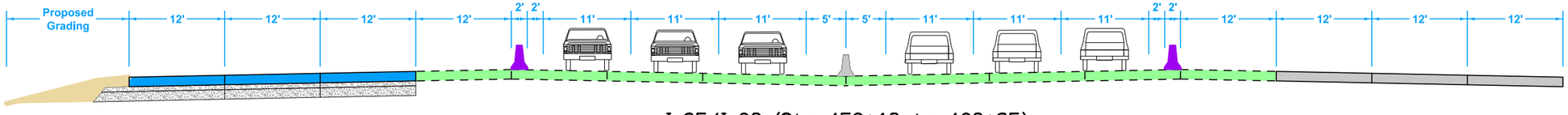
Stage 1E



I-35/I-80 (Sta 428+00 to 433+00)



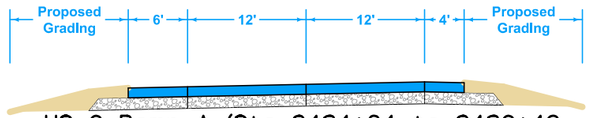
I-35/I-80 (Sta 451+78 to 456+00)



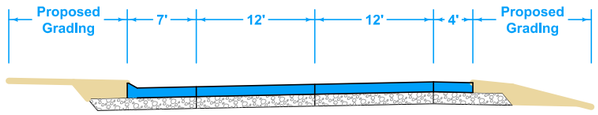
I-35/I-80 (Sta 459+10 to 460+25)

FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER J.9

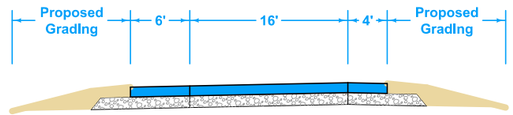
1:54:03 PM 7/1/2022 ncarhoff pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\7708006015\Design_(069)_PrelimDesign\CADD_Files\Sheet_Files\SHT_77080069Z08_J05.dgn



US 6 Ramp A (Sta 3424+84 to 3426+49, Sta 3429+54 to 3433+00)

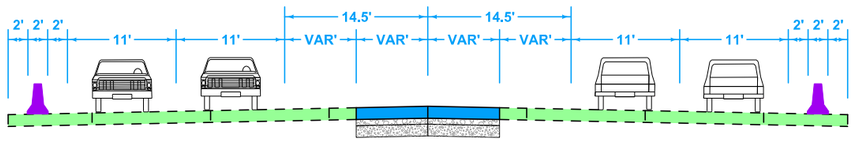


US 6 Ramp A (Sta 3426+49 to 3429+54)



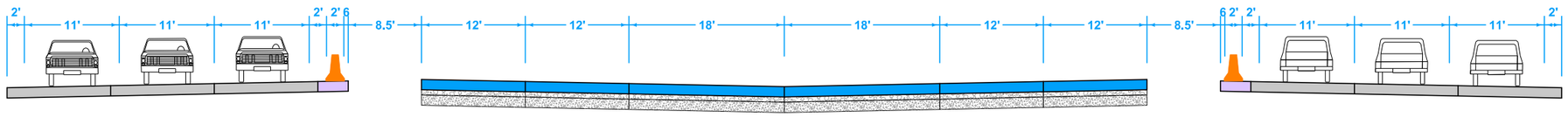
Douglas Ramp C (Sta XXX+XX to XXX+XX)

Stage 2A

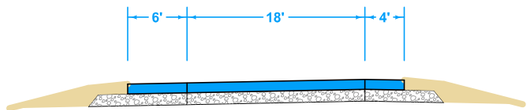


US 6 (Sta 673+55 to 688+92)

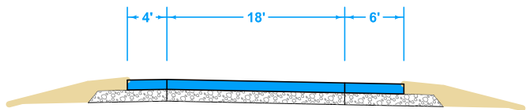
Stage 2B



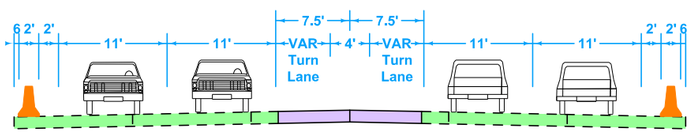
I-35/I-80 (Sta 408+23 to 434+00)



Douglas Ramp E (Sta 9476+45 to 9480+94)



Douglas Ramp F (Sta 10461+35 to 10467+05)



US 6 (Sta 673+55 to 688+92)

FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER J.10

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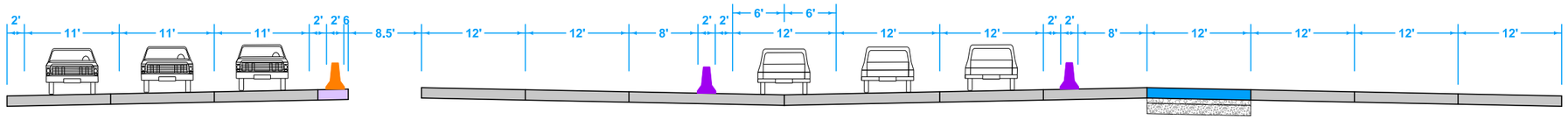
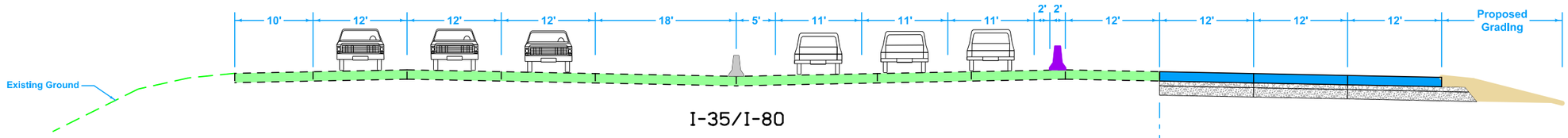
Stage 2C

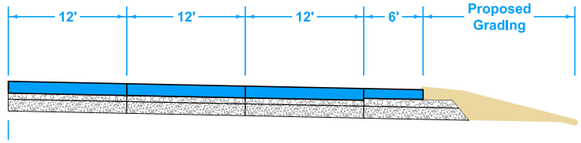


I-35/I-80 (Sta 408+23 to 434+00)

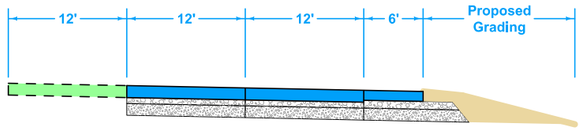


I-35/I-80

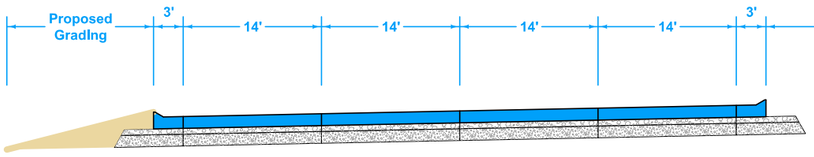
(Sta 460+25 to 467+50)



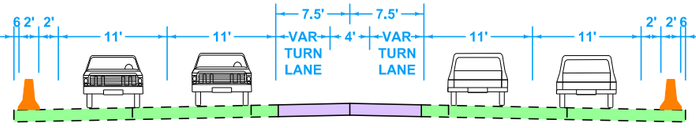
(Sta 472+25 to 476+46)



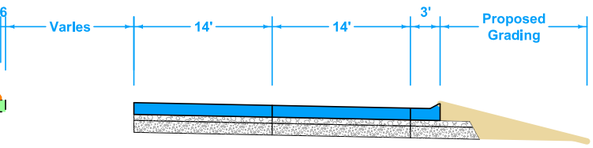
(Sta 476+46 to 481+25)



(Sta 2675+48 to 2678+66)



US 6



(Sta 1676+27 to 1677+48)

FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER J.11

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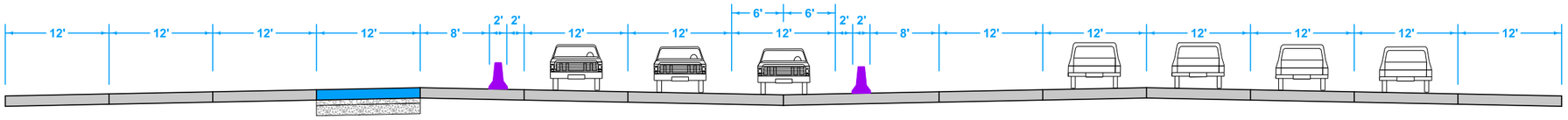
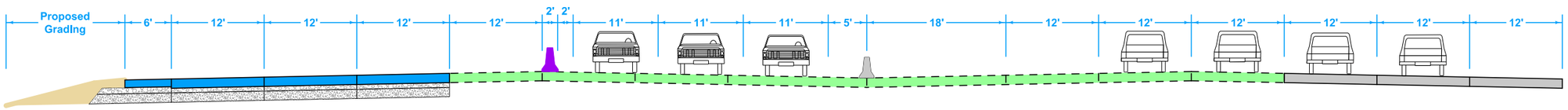
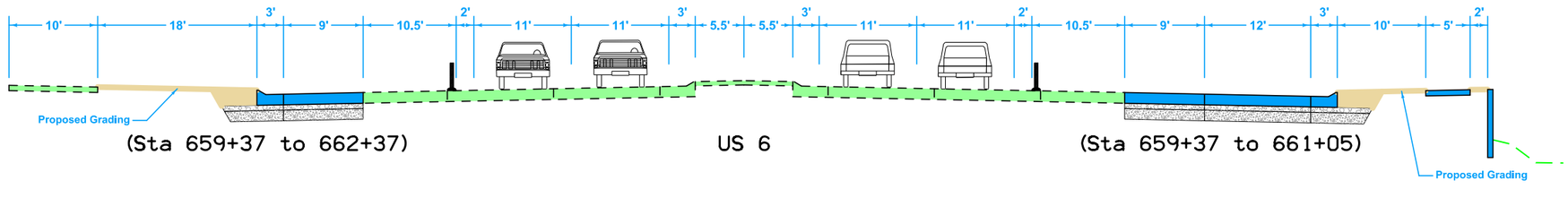
Stage 2D



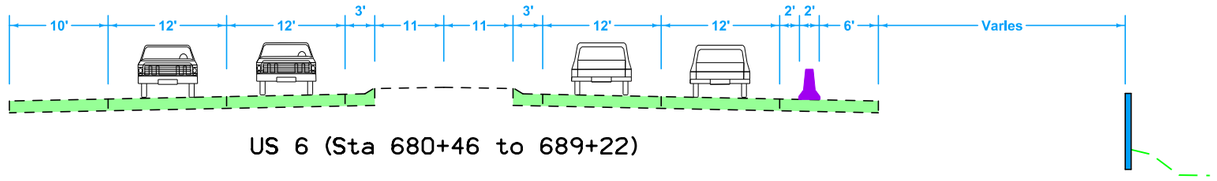
I-35/I-80 (Sta 408+23 to 434+00)



I-35/I-80 (Sta 462+25 to 471+25)

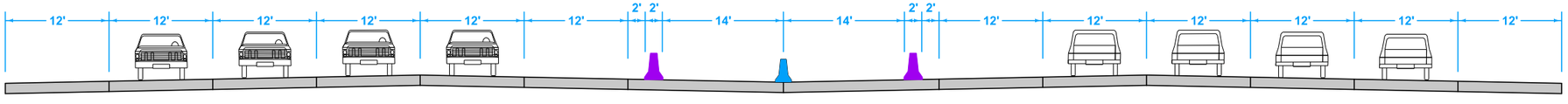


(Sta 659+37 to 662+37) US 6 (Sta 659+37 to 661+05)

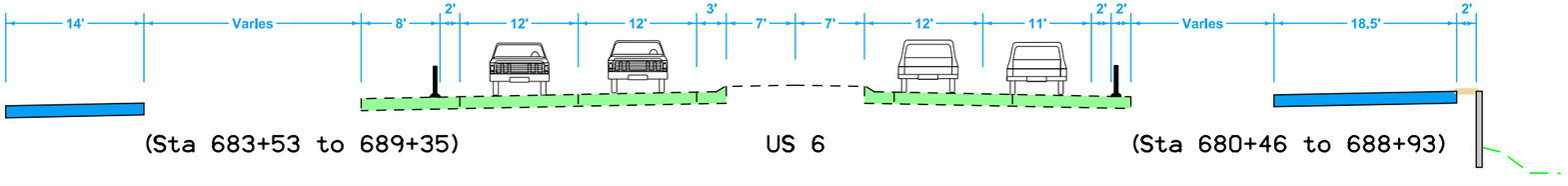


US 6 (Sta 680+46 to 689+22)

Stage 2E



I-35/I-80 (Sta 401+70 to 440+55)



(Sta 683+53 to 689+35) US 6 (Sta 680+46 to 688+93)

FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER J.12

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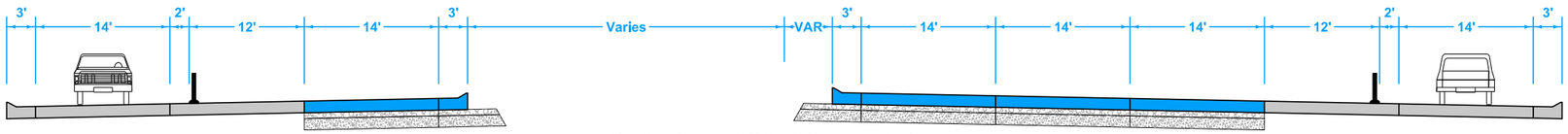
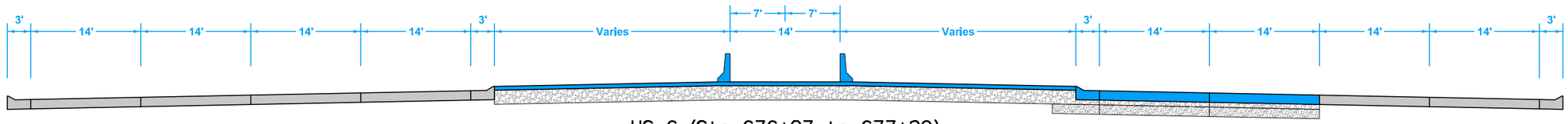
Stage 3A



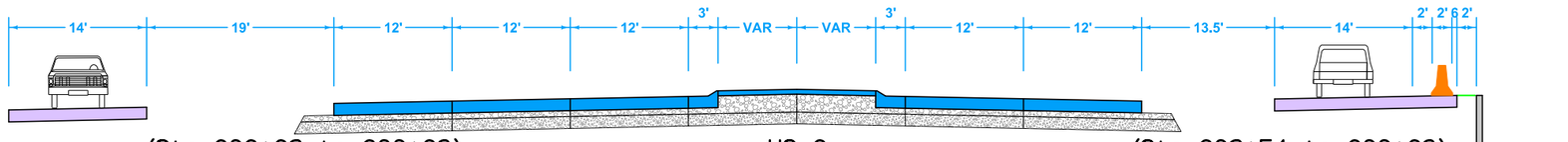
US 6 (Sta 663+57 to 668+00)



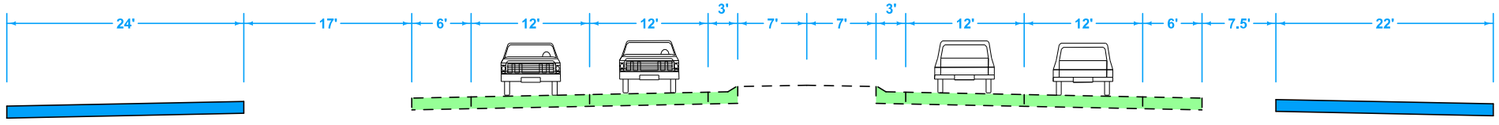
US 6 (Sta 669+82 to 672+00)



US 6 (Sta 676+07 to 677+29)



(Sta 686+62 to 688+63) US 6 (Sta 682+54 to 688+63)



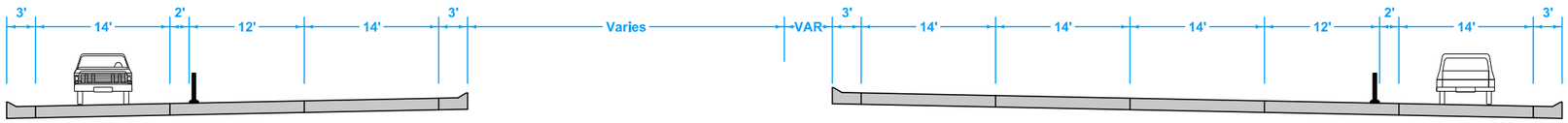
US 6 (Sta 691+82 to 697+15)

FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER J.13

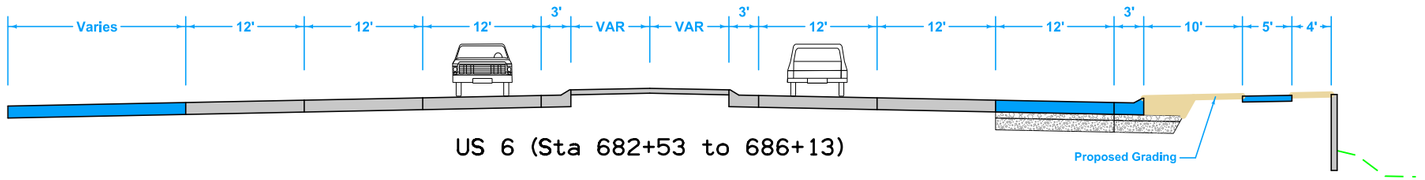
Stage 3B



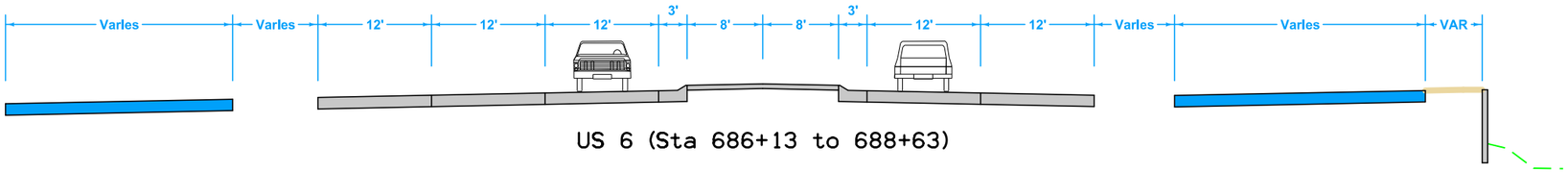
US 6 (Sta 663+57 to 668+00)



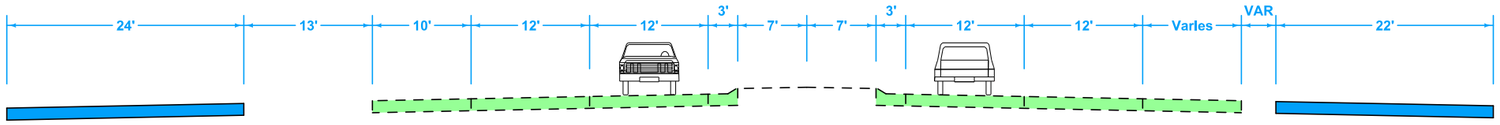
US 6 (Sta 669+82 to 672+00)



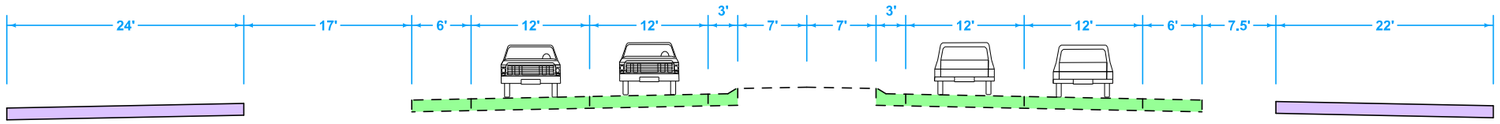
US 6 (Sta 682+53 to 686+13)



US 6 (Sta 686+13 to 688+63)



US 6 (Sta 688+63 to 690+40)

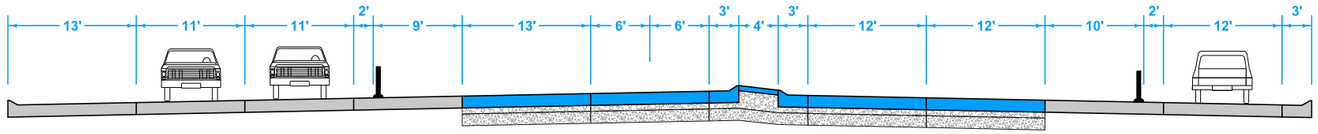


US 6 (Sta 691+82 to 697+15)

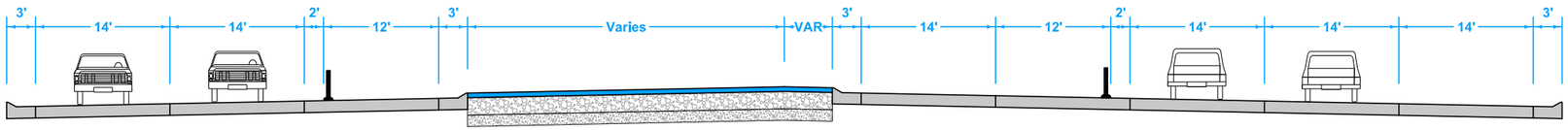
FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER J.14

1:54:13 PM 7/1/2022 ncarhoff pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\7708006015\Design_(069)_PrelimDesign\CADD_Files\Sheet_Files\SHT_77080069Z08_J05.dgn

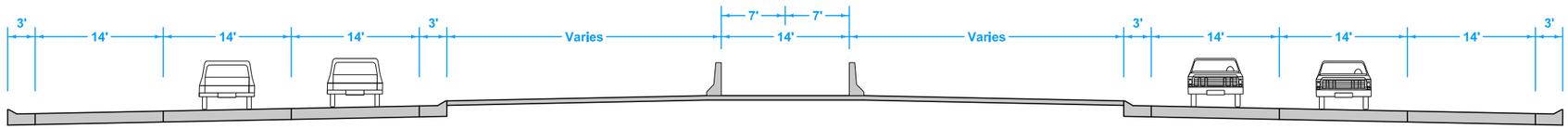
Stage 3C



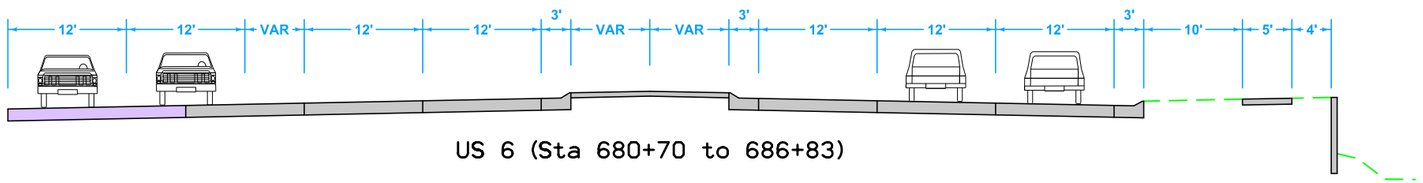
US 6 (Sta 663+57 to 665+74)



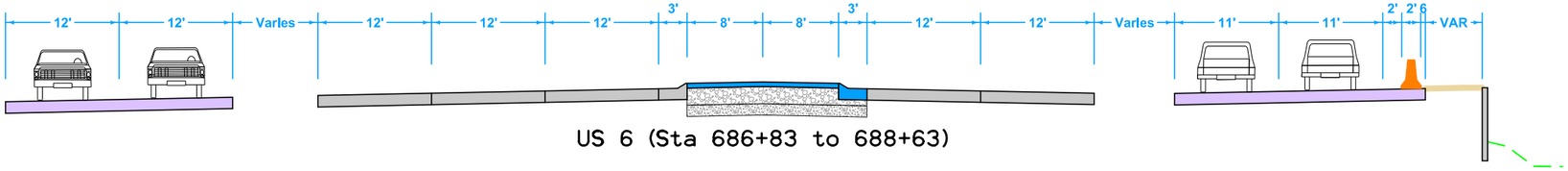
US 6 (Sta 669+67 to 672+60)



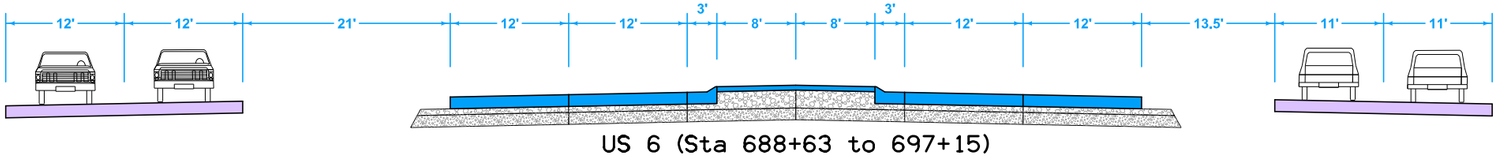
US 6 (Sta 674+33 to 678+99)



US 6 (Sta 680+70 to 686+83)



US 6 (Sta 686+83 to 688+63)

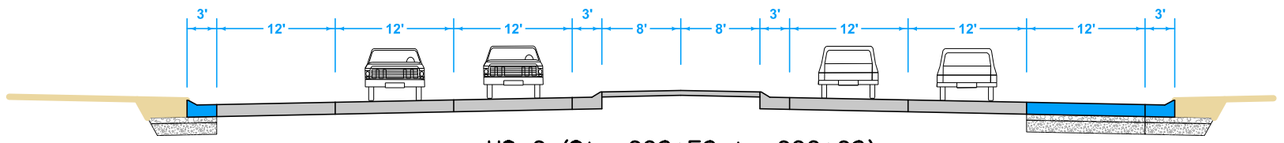


US 6 (Sta 688+63 to 697+15)

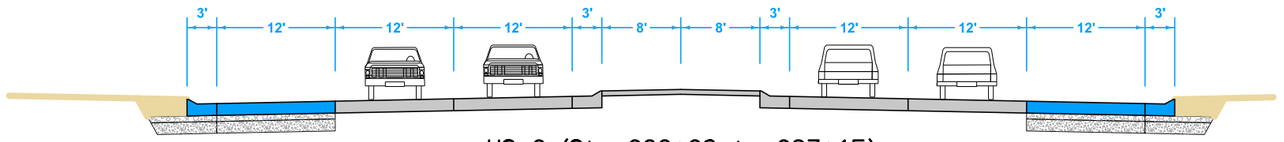
FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER J.15

1:54:14 PM 7/1/2022 ncarhoff pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\7708006015\Design_(069)_PrelimDesign\CADD_Files\Sheet_Files\SHT_77080069Z08_J05.dgn

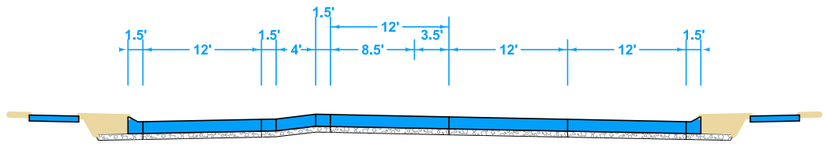
Stage 3D



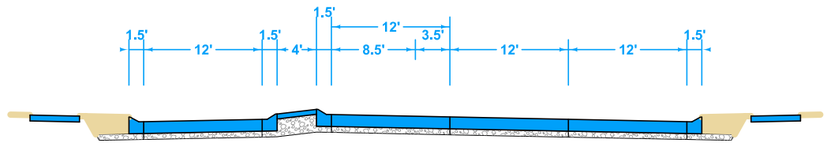
US 6 (Sta 683+53 to 688+63)



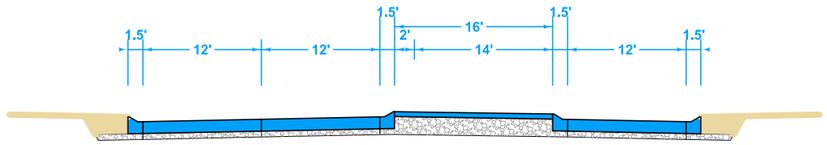
US 6 (Sta 688+63 to 697+15)



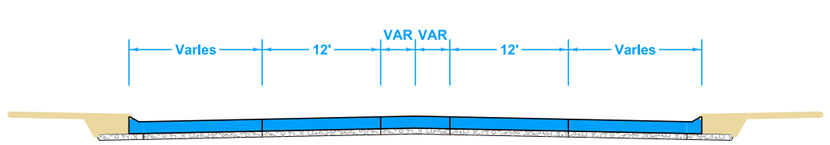
NW 111th STREET (Sta 1688+33 to 1689+06)



NW 111th STREET (Sta 1689+06 to 1690+57)

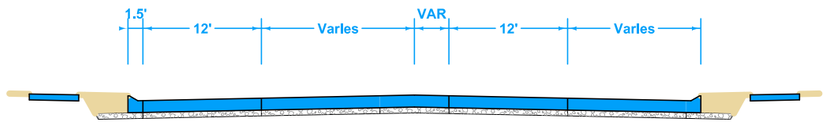


NW 111th STREET (Sta 1692+92 to 1693+94)

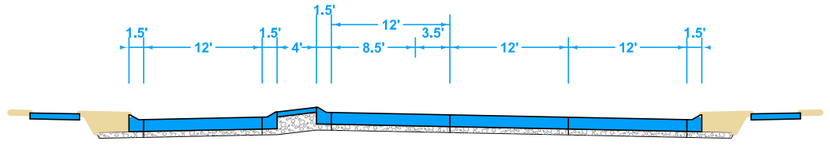


NW 111th STREET (Sta 1695+02 to 1695+72)

Stage 3E

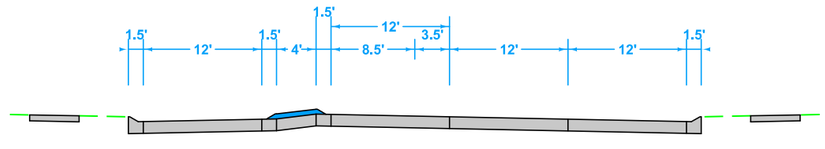


NW 111th STREET (Sta 1686+61 to 1688+03)



NW 111th STREET (Sta 1688+03 to 1688+33)

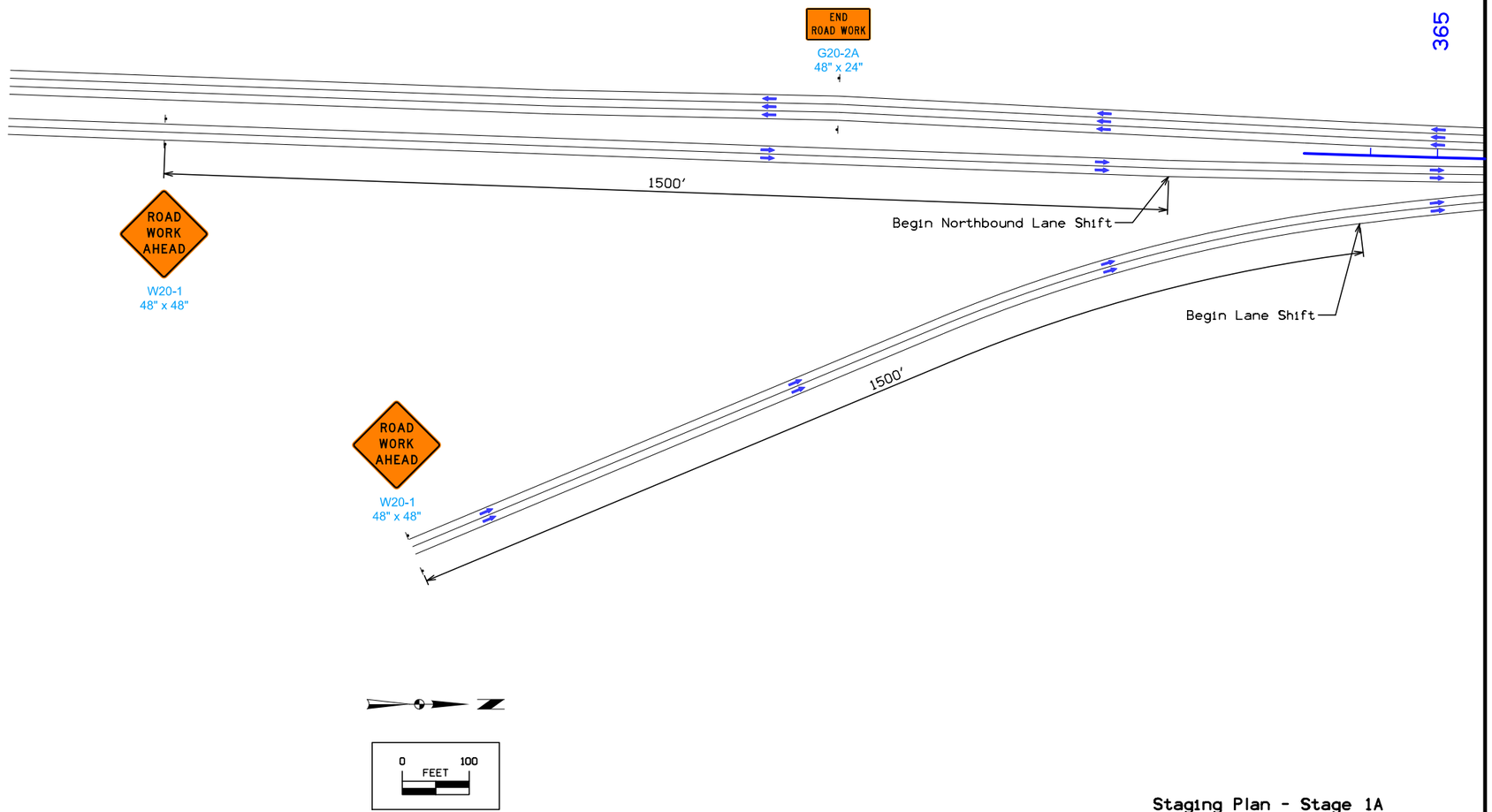
Stage 3F



NW 111th STREET (Sta 1688+33 to 1689+06)

FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER J.16

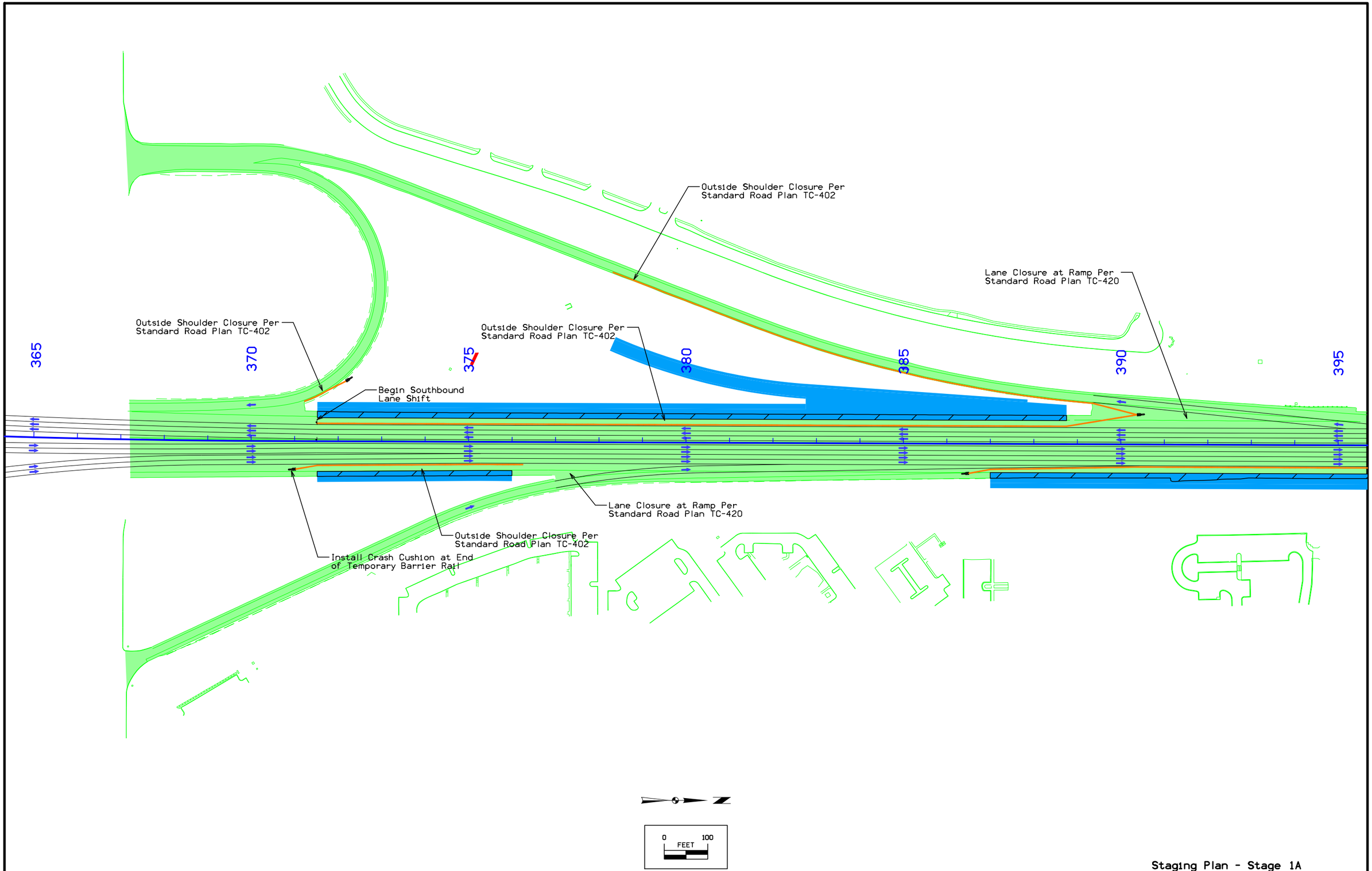
1:54:16 PM 7/1/2022 ncarhoff pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\7708006015\Design_(069)_PrelimDesign\CADD_Files\Sheet_Files\SHT_77080069Z08_J05.dgn



Staging Plan - Stage 1A

FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER J.17

1:54:34 PM 7/1/2022 ncarhoff pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\7708006015\Design_(069)_PrelimDesign\CADD_Files\Sheet_Files\SHT_77080069Z08_J17.dgn



Staging Plan - Stage 1A

FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER J.18

1:54:50 PM 7/1/2022 ncarhoff pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\7708006015\Design_(069)_PrelimDesign\CADD_Files\Sheet_Files\SHT_77080069Z08_J18.dgn

Outside Shoulder Closure Per
Standard Road Plan TC-402

Lane Closure at Ramp Per
Standard Road Plan TC-420

395

400

405

410

415

420

425

F013

F011

Outside Shoulder Closure Per
Standard Road Plan TC-402

Lane Closure at Ramp Per
Standard Road Plan TC-420

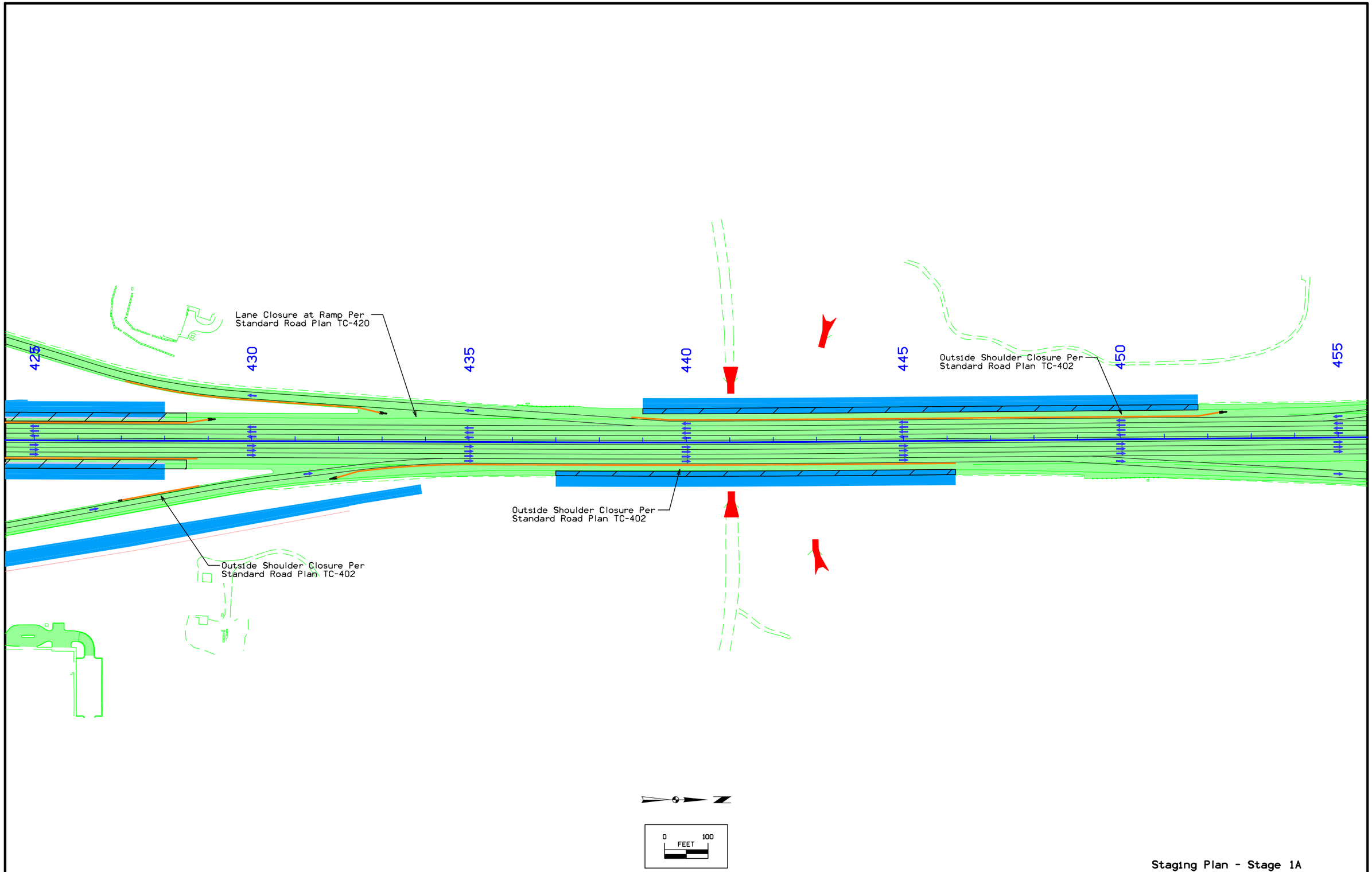
Outside Shoulder Closure Per
Standard Road Plan TC-402

0 FEET 100

Staging Plan - Stage 1A

FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER J.19

1:55:53 PM 7/1/2022 ncarhoff pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\7708006015\Design_(069)_PrelimDesign\CADD_Files\Sheet_Files\SHT_7708006908_J19.dgn



Staging Plan - Stage 1A

FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER J.20

1:56:10 PM 7/1/2022 ncarhoff pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\7708006015\Design_(069)_PrelimDesign\CADD_Files\Sheet_Files\SHT_77080069Z08_J20.dgn

455

460

465

470

475

480

485

Begin Southbound Lane Shift

ROAD WORK AHEAD

W20-1
48" x 48"

END ROAD WORK

G20-2A
48" x 24"

Begin Northbound Lane Shift

0 FEET 100

Staging Plan - Stage 1A

FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER J.21

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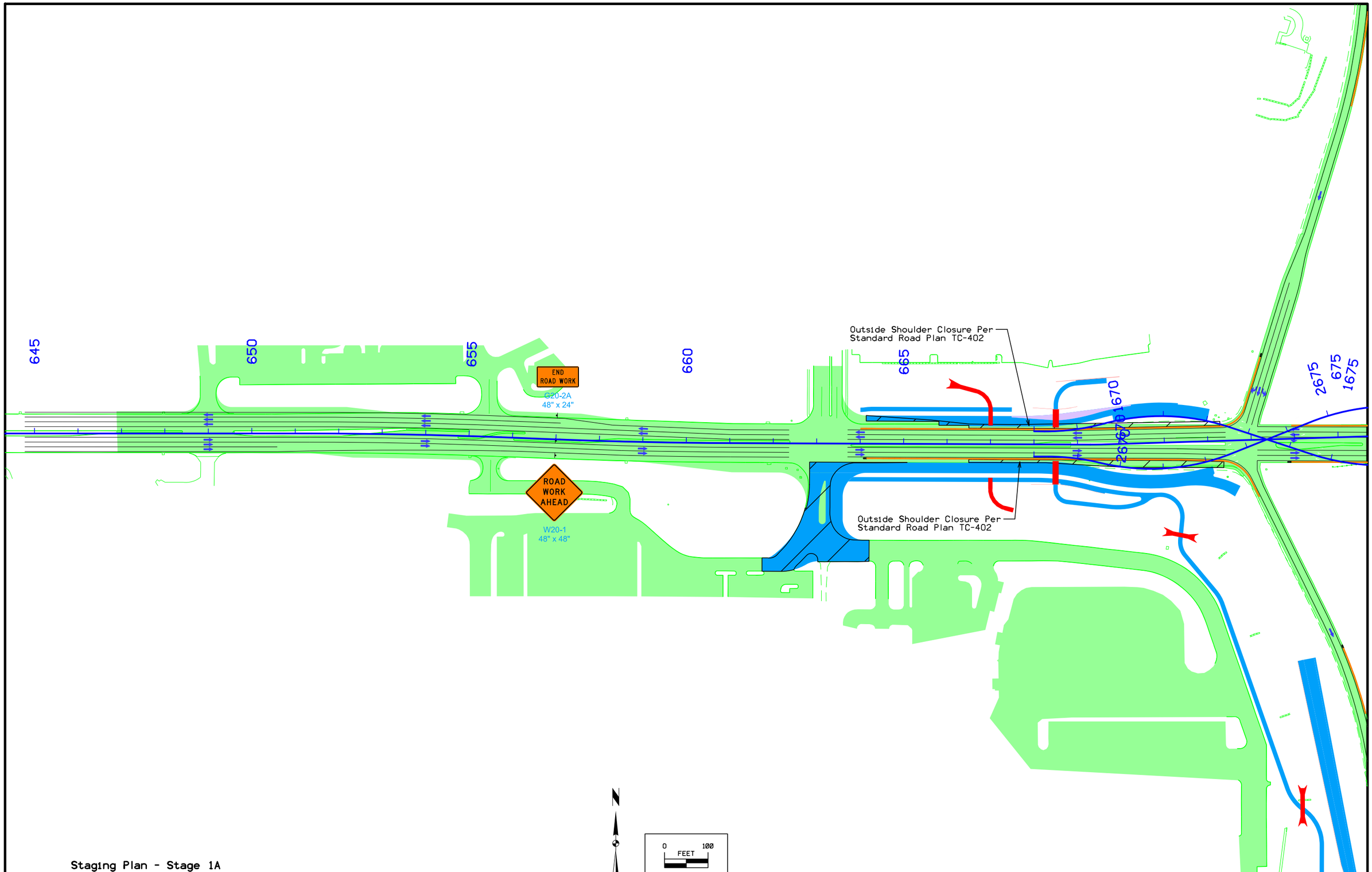


Staging Plan - Stage 1A

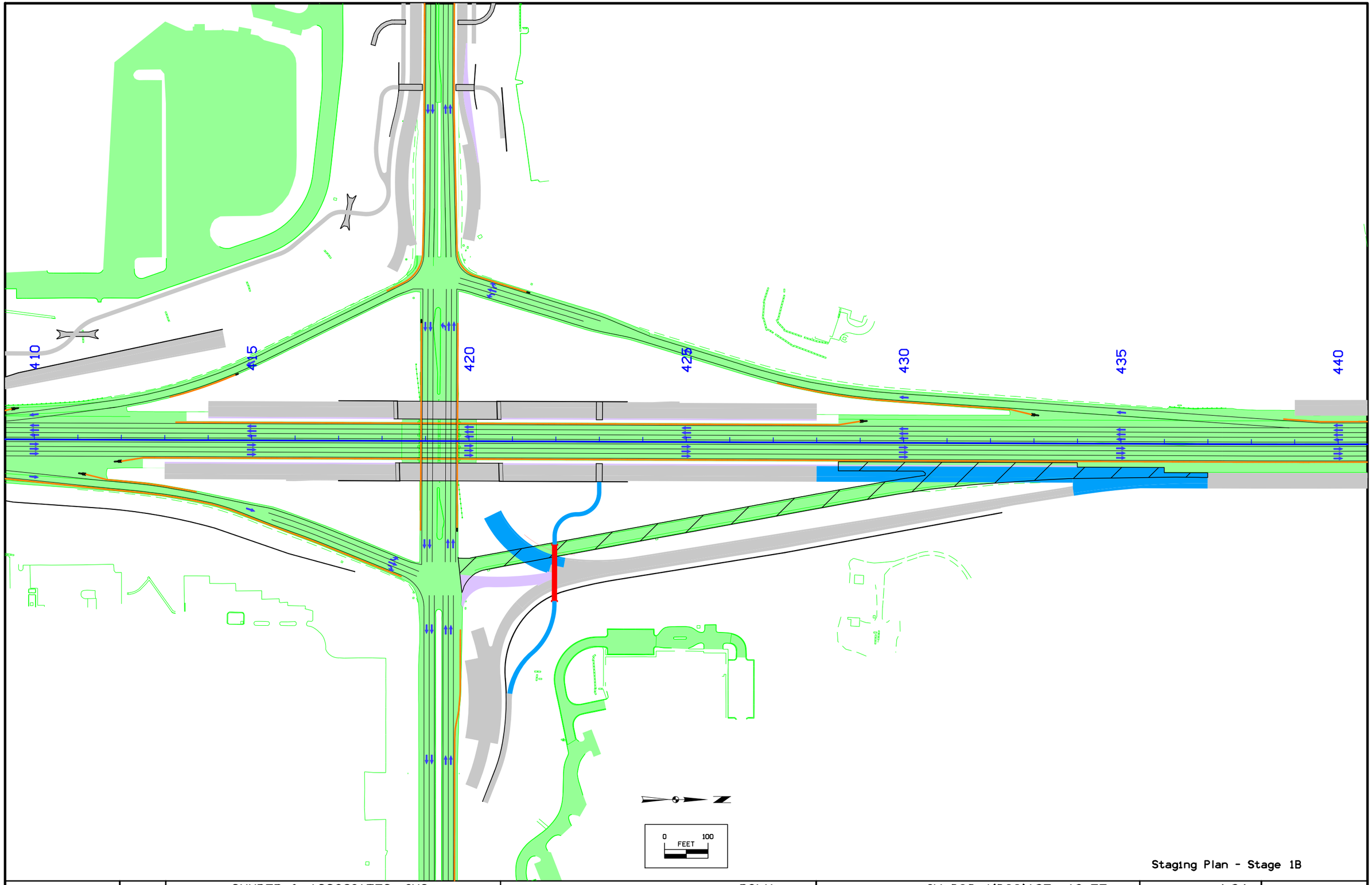
FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER J.22

1:56:48 PM 7/1/2022 ncarhoff pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\7708006015\Design_(069)_PrelimDesign\CADD_Files\Sheet_Files\SHT_77080069Z08_J22.dgn

2675
675
1675
680
2680
685
2685
1685
690
695
700
Outside Shoulder Closure Per
Standard Road Plan TC-402
ROAD
WORK
AHEAD
W20-1
48" x 48"
END
ROAD WORK
G20-2A
48" x 24"
0
100
FEET
0
100
FEET
Staging Plan - Stage 1A

FILE NO.	ENGLISH	DESIGN TEAM	SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER	IM-080-4(069)125--13-77	SHEET NUMBER	J.23

1:57:09 PM 7/1/2022 ncarhoff pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\7708006015\Design_(069)_PrelimDesign\CADD_Files\Sheet_Files\SHT_77080069Z08_J23.dgn



Staging Plan - Stage 1B

FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER J.24

1:57:27 PM 7/1/2022 ncarhoff pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\7708006015\Design_(069)_PrelimDesign\CADD_Files\Sheet_Files\SHT_77080069Z08_J24.dgn

440

445

450

455

460

465

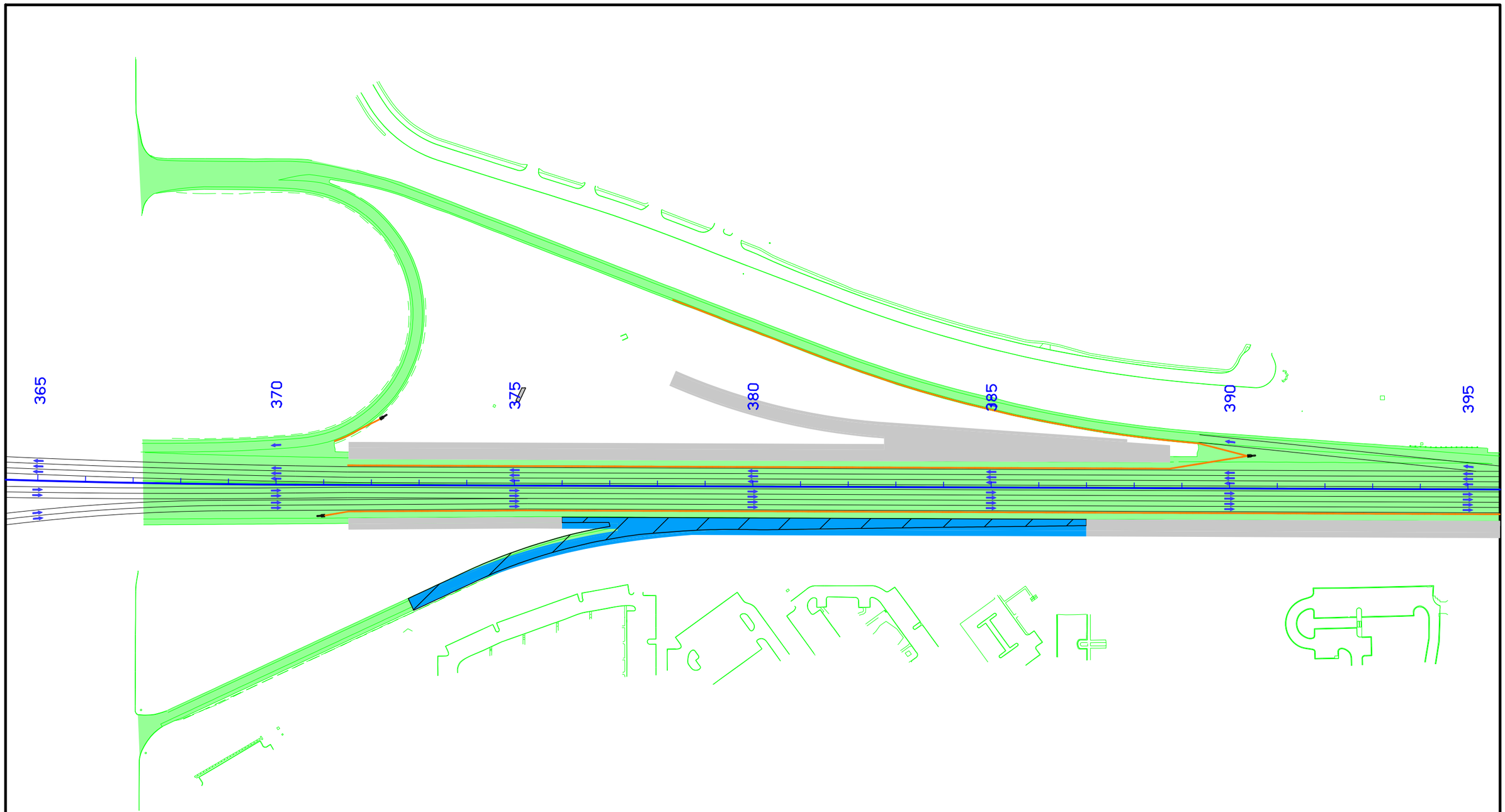
470

0 100
FEET

Staging Plan - Stage 1B

FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER J.25

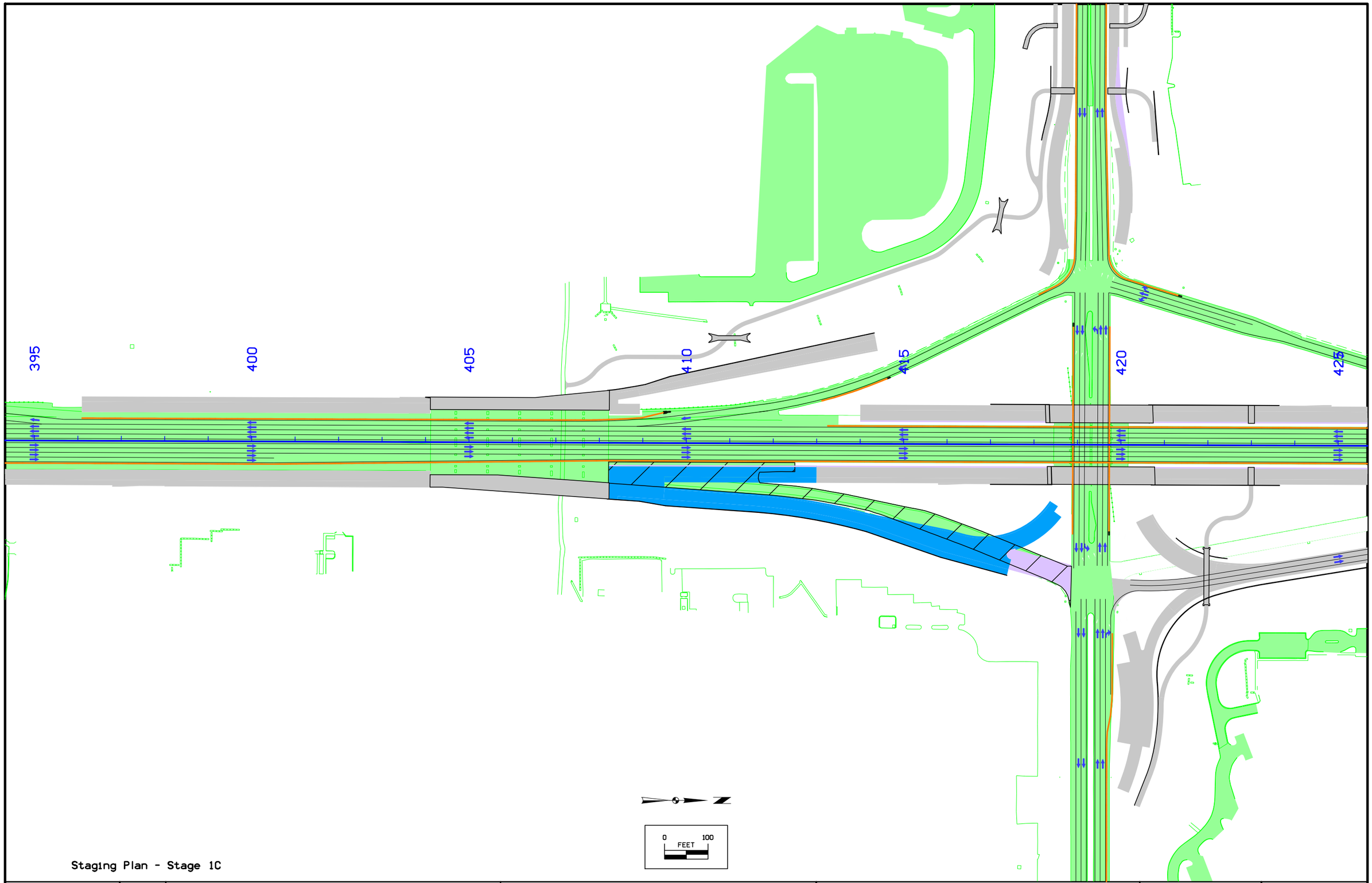
1:57:48 PM 7/1/2022 ncarhoff pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\7708006015\Design_(069)_PrelimDesign\CADD_Files\Sheet_Files\SHT_77080069Z08_J25.dgn



Staging Plan - Stage 1C

FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER J.26

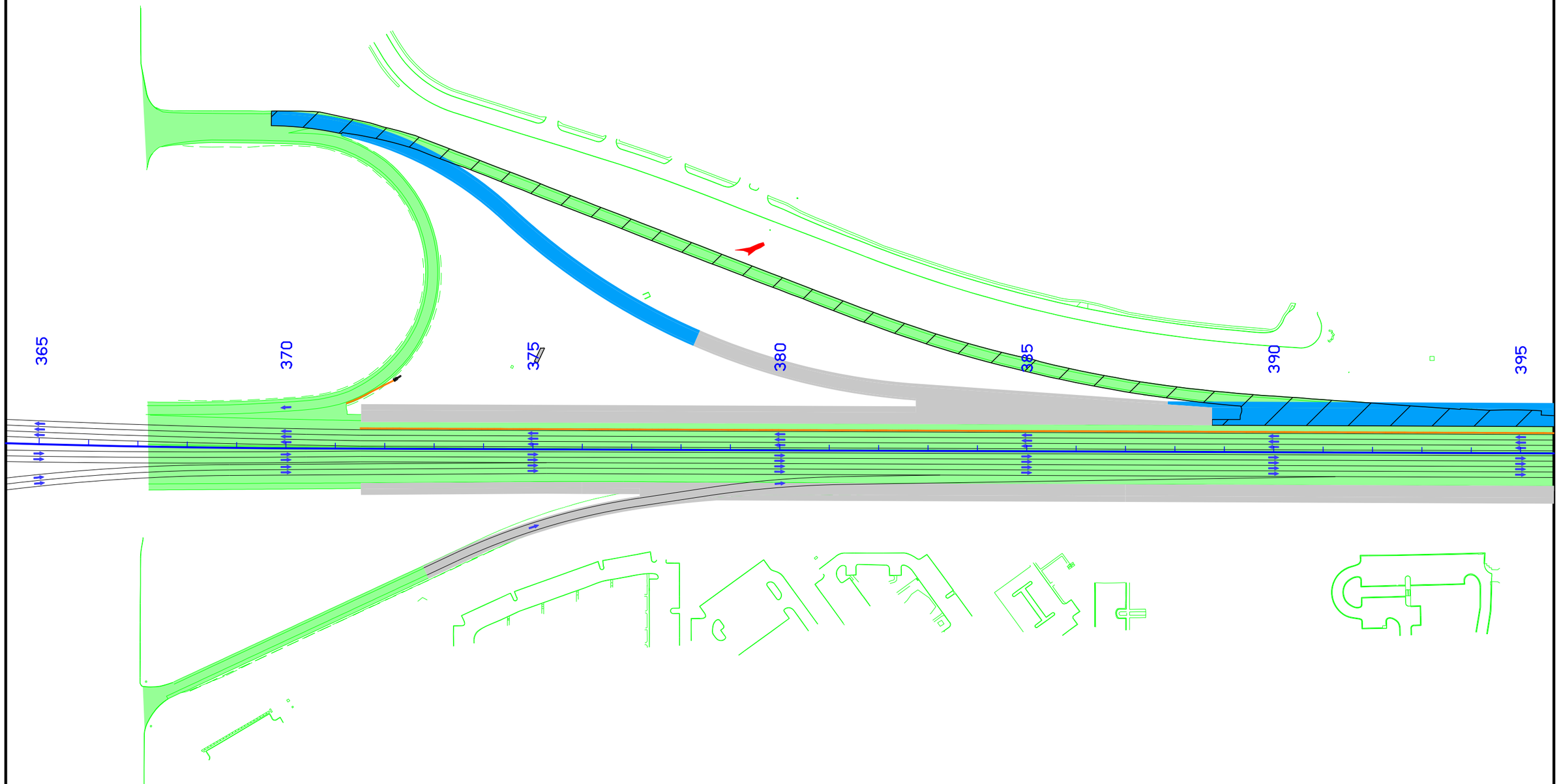
1:58:07 PM 7/1/2022 ncarhoff pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\7708006015\Design_(069)_PrelimDesign\CADD_Files\Sheet_Files\SHT_77080069Z08_J26.dgn



Staging Plan - Stage 1C

FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER J.27

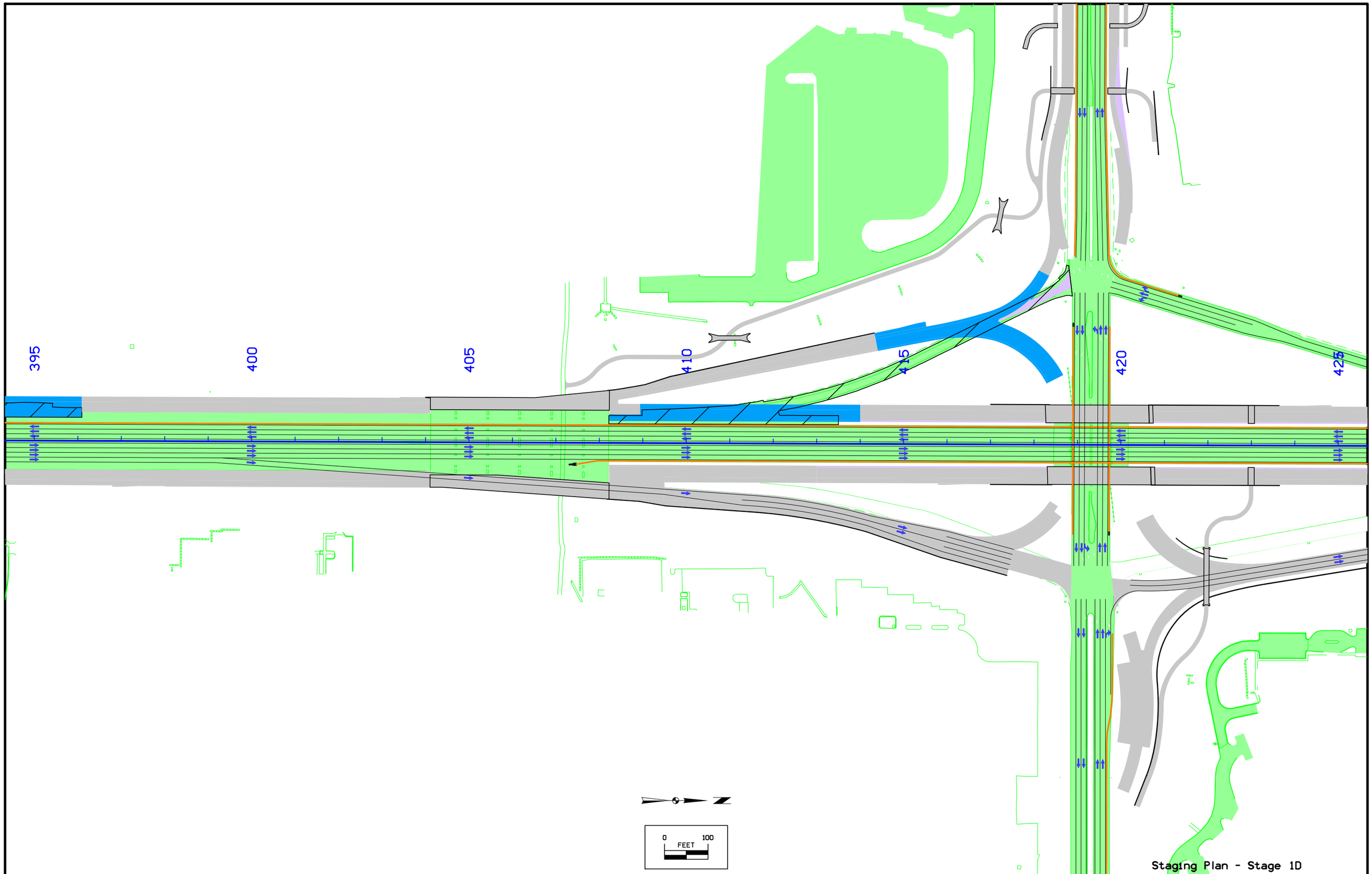
1:58:27 PM 7/1/2022 ncarhoff pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\7708006015\Design_(069)_PrelimDesign\CADD_Files\Sheet_Files\SHT_7708006908_J27.dgn



Staging Plan - Stage 1D

FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER J.28

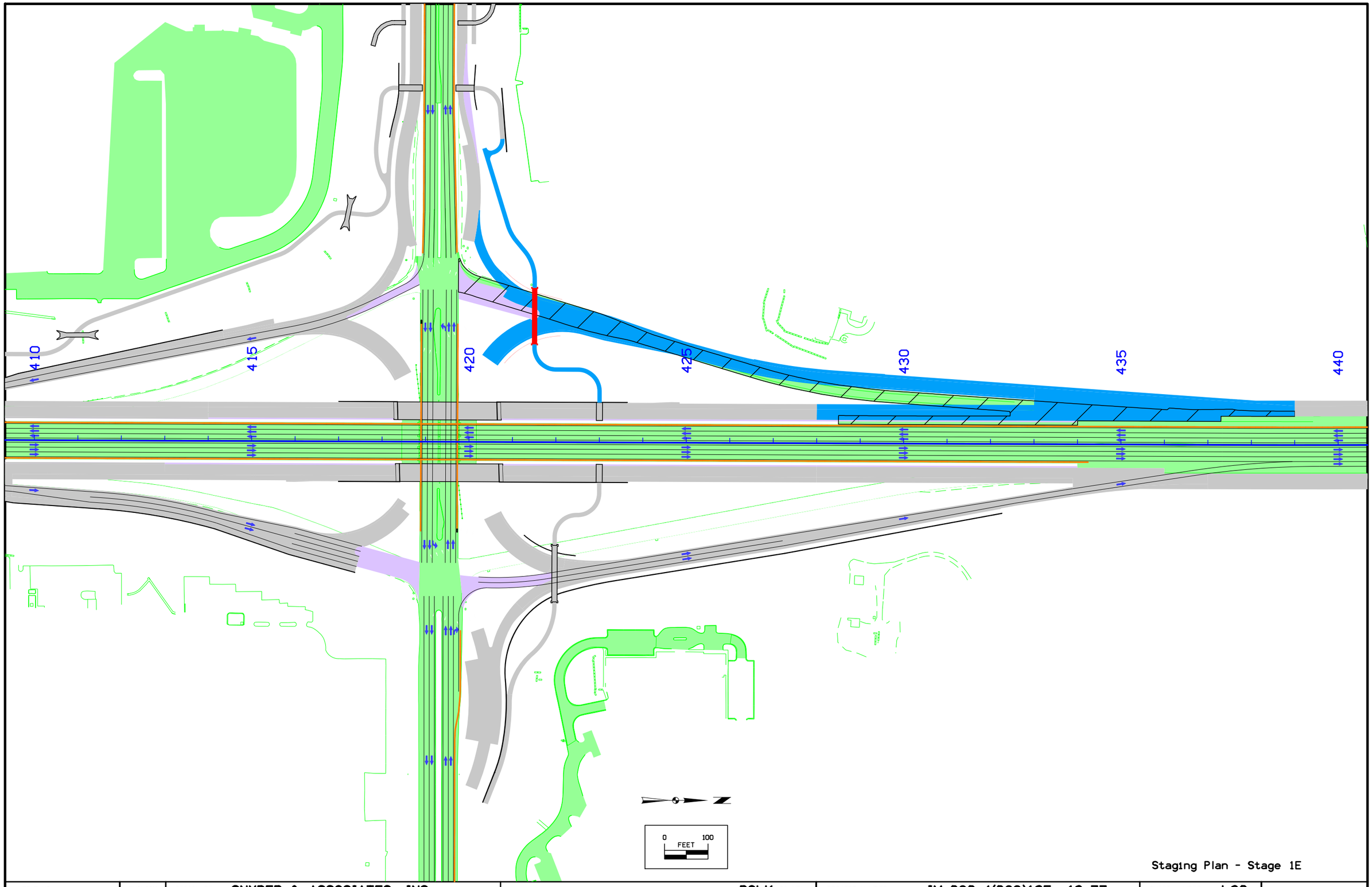
1:58:46 PM 7/1/2022 ncarhoff pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\7708006015\Design_(069)_PrelimDesign\CADD_Files\Sheet_Files\SHT_77080069Z08_J28.dgn



Staging Plan - Stage 1D

FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER J.29

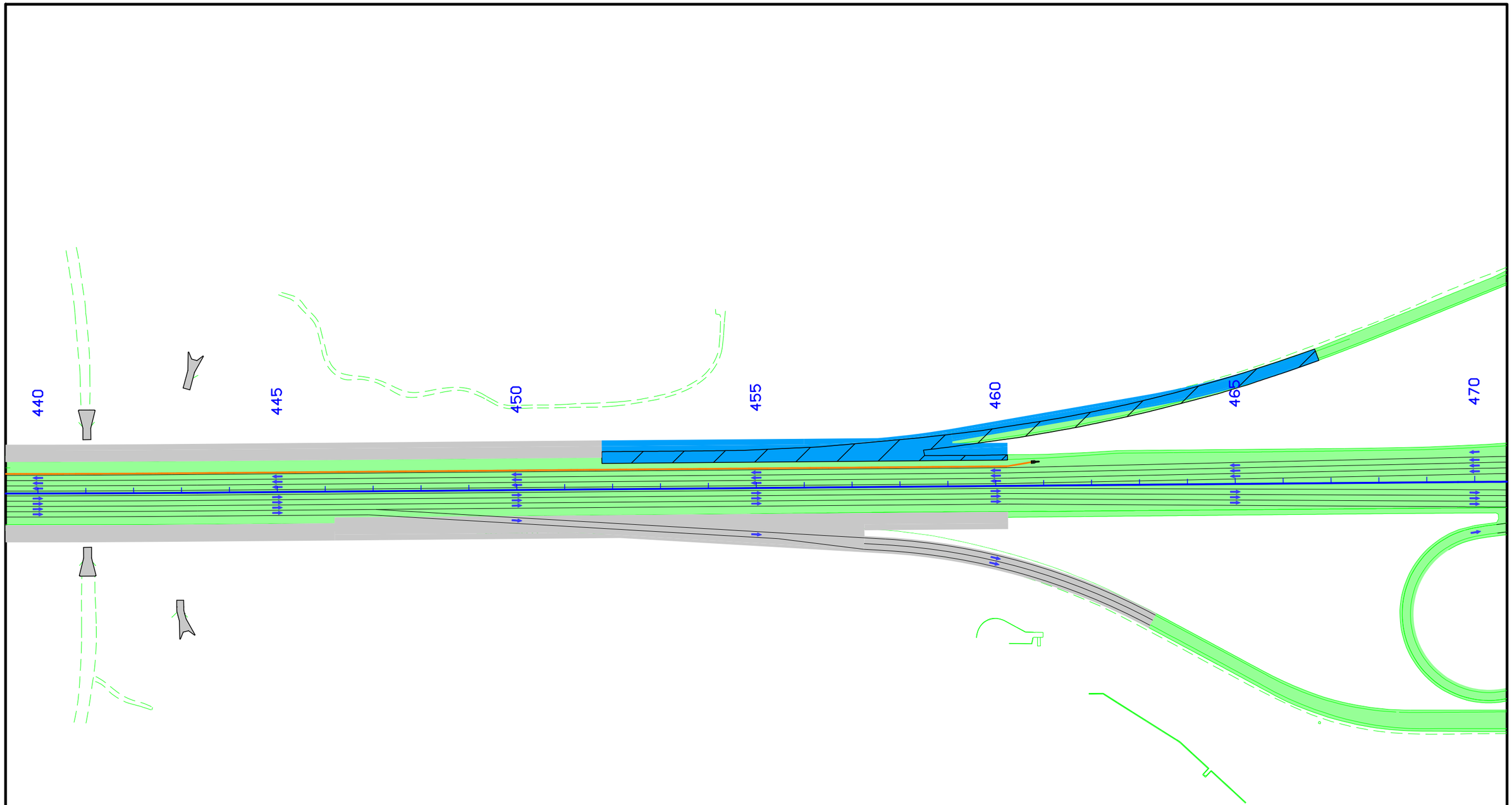
1:59:05 PM 7/1/2022 ncarhoff pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\7708006015\Design_(069)_PrelimDesign\CADD_Files\Sheet_Files\SHT_77080069Z08_J29.dgn



Staging Plan - Stage 1E

FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER J.30

1:59:25 PM 7/1/2022 ncarhoff pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\7708006015\Design_(069)_PrelimDesign\CADD_Files\Sheet_Files\SHT_77080069Z08_J30.dgn



Staging Plan - Stage 1E

FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER J.31

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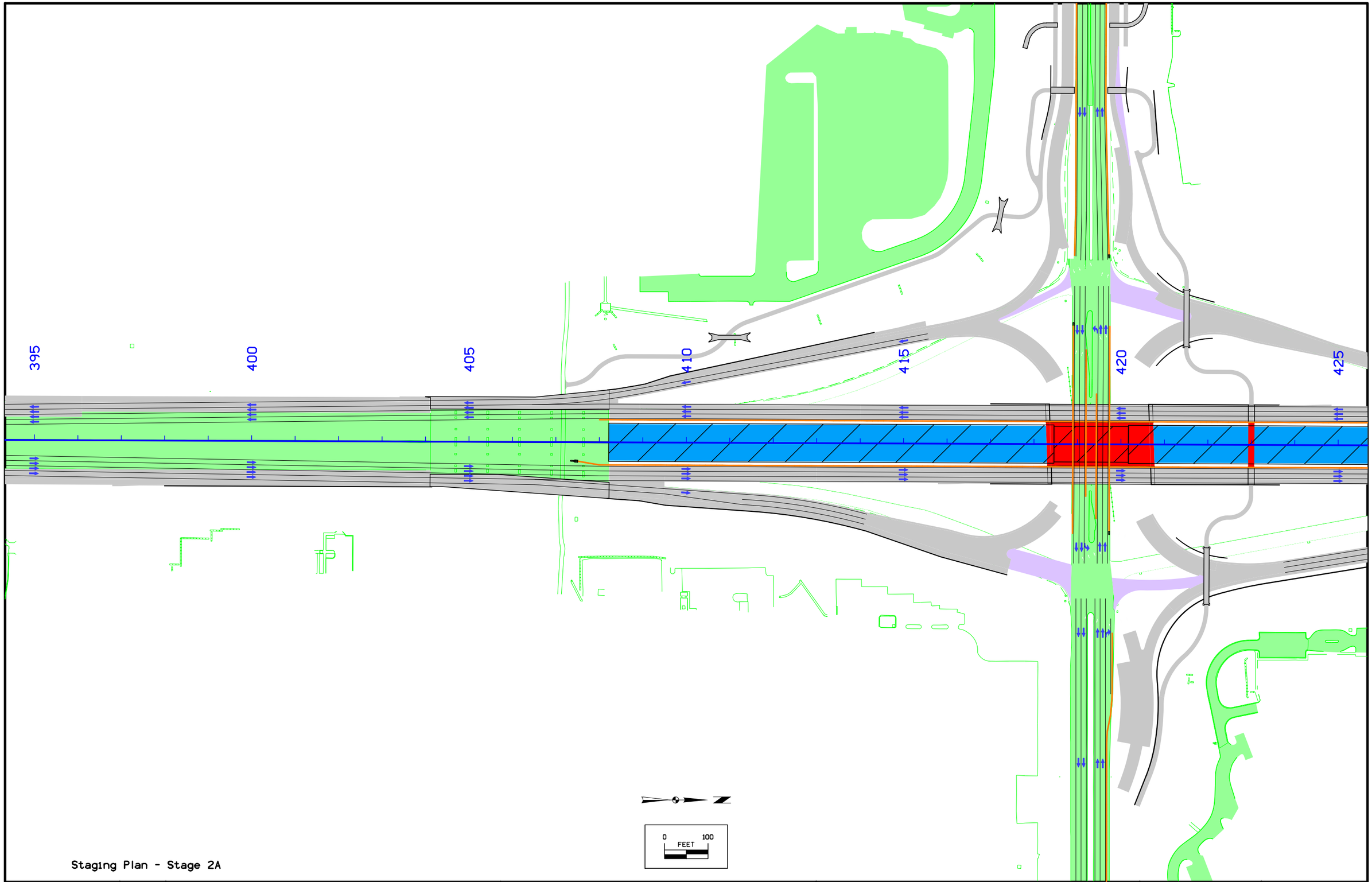
Staging Plan - Stage 2A

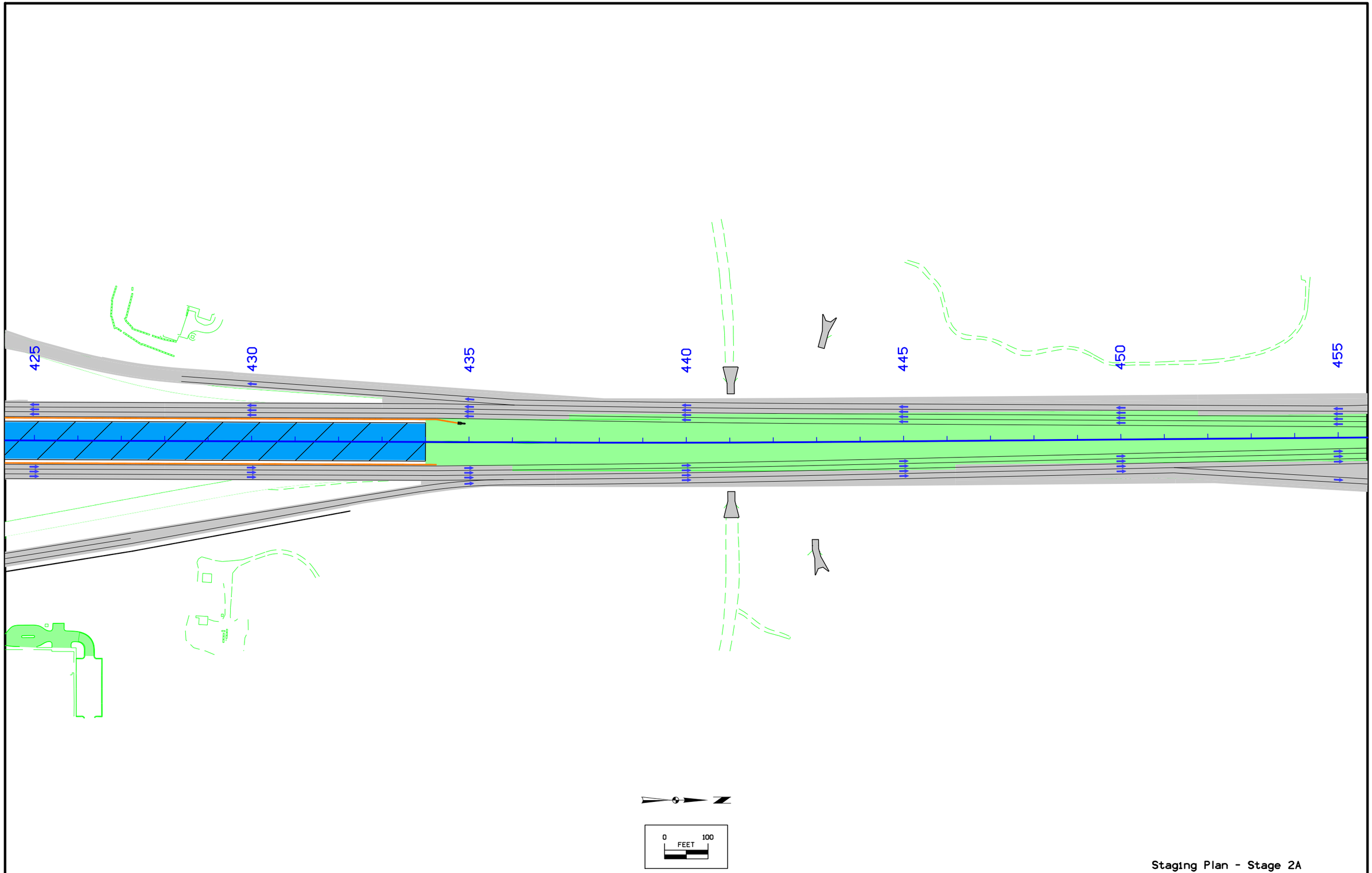
FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER J.32



Staging Plan - Stage 2A

FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER J.33

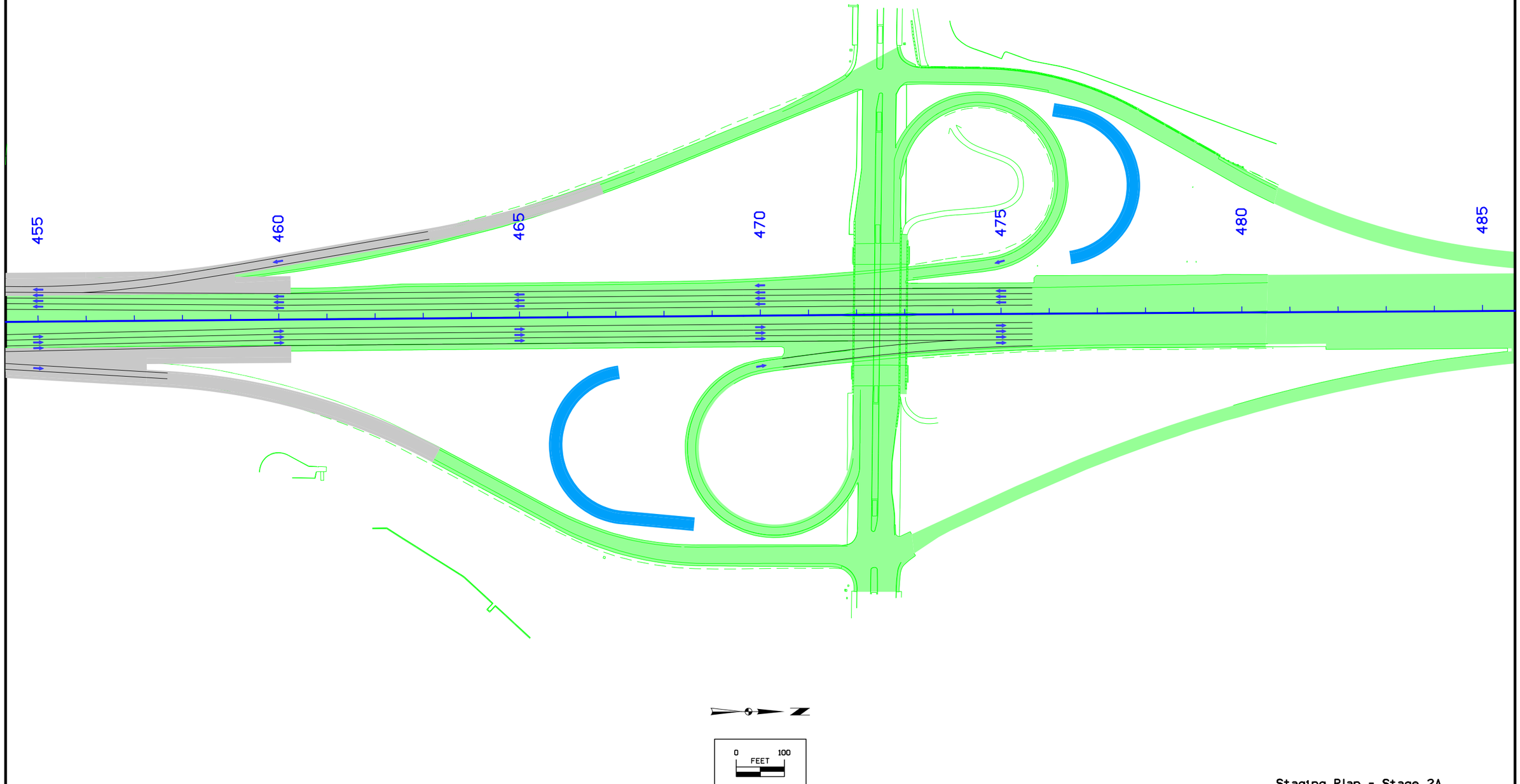
4:15:12 PM 7/1/2022 ncarhoff pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\7708006015\Design_(069)_PrelimDesign\CADD_Files\Sheet_Files\SHT_77080069Z08_J33.dgn



Staging Plan - Stage 2A

FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER J.34

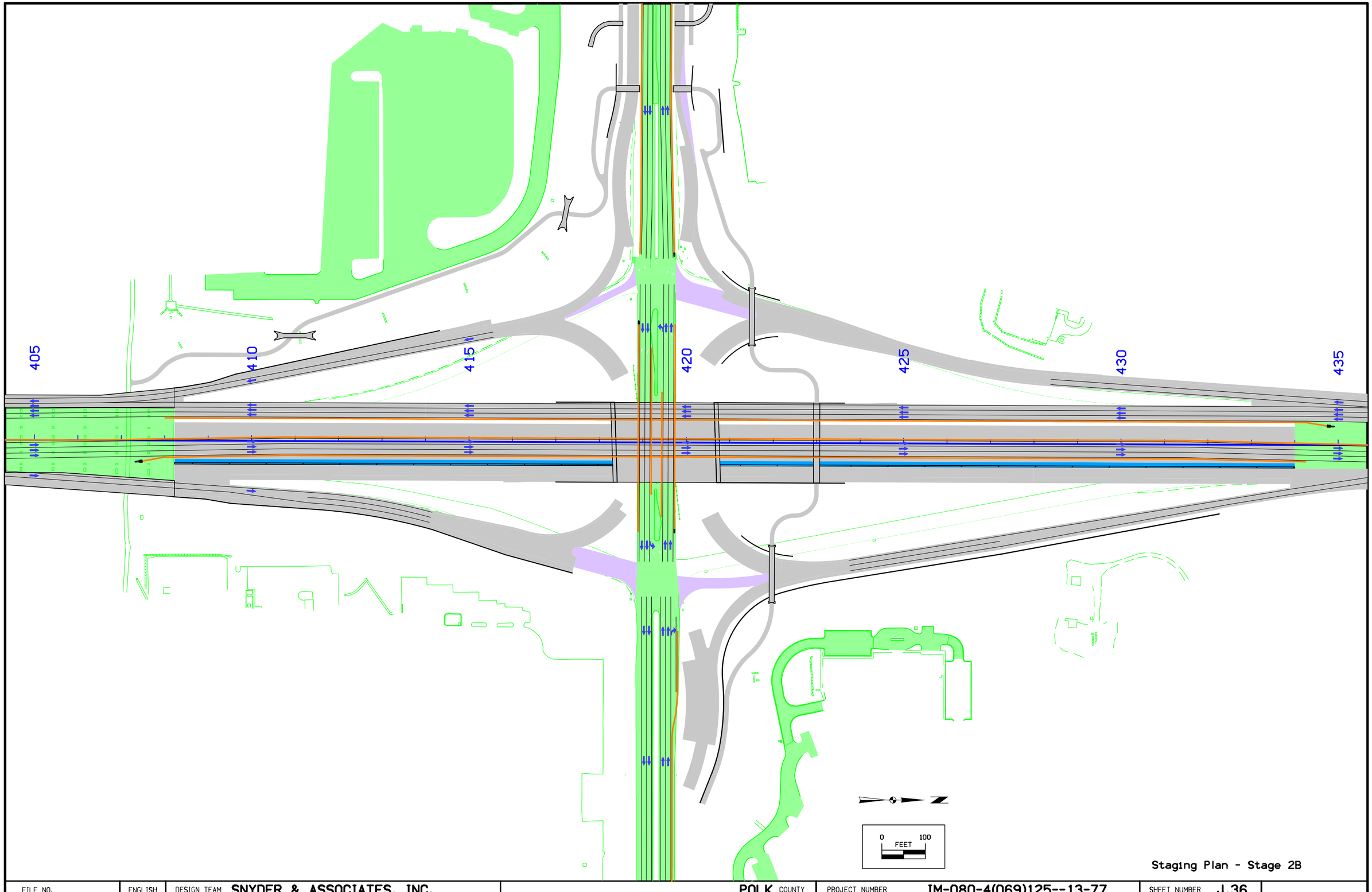
2:00:45 PM 7/1/2022 ncarhoff pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\7708006015\Design_(069)_PrelimDesign\CADD_Files\Sheet_Files\SHT_77080069Z08_J34.dgn



Staging Plan - Stage 2A

FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER J.35

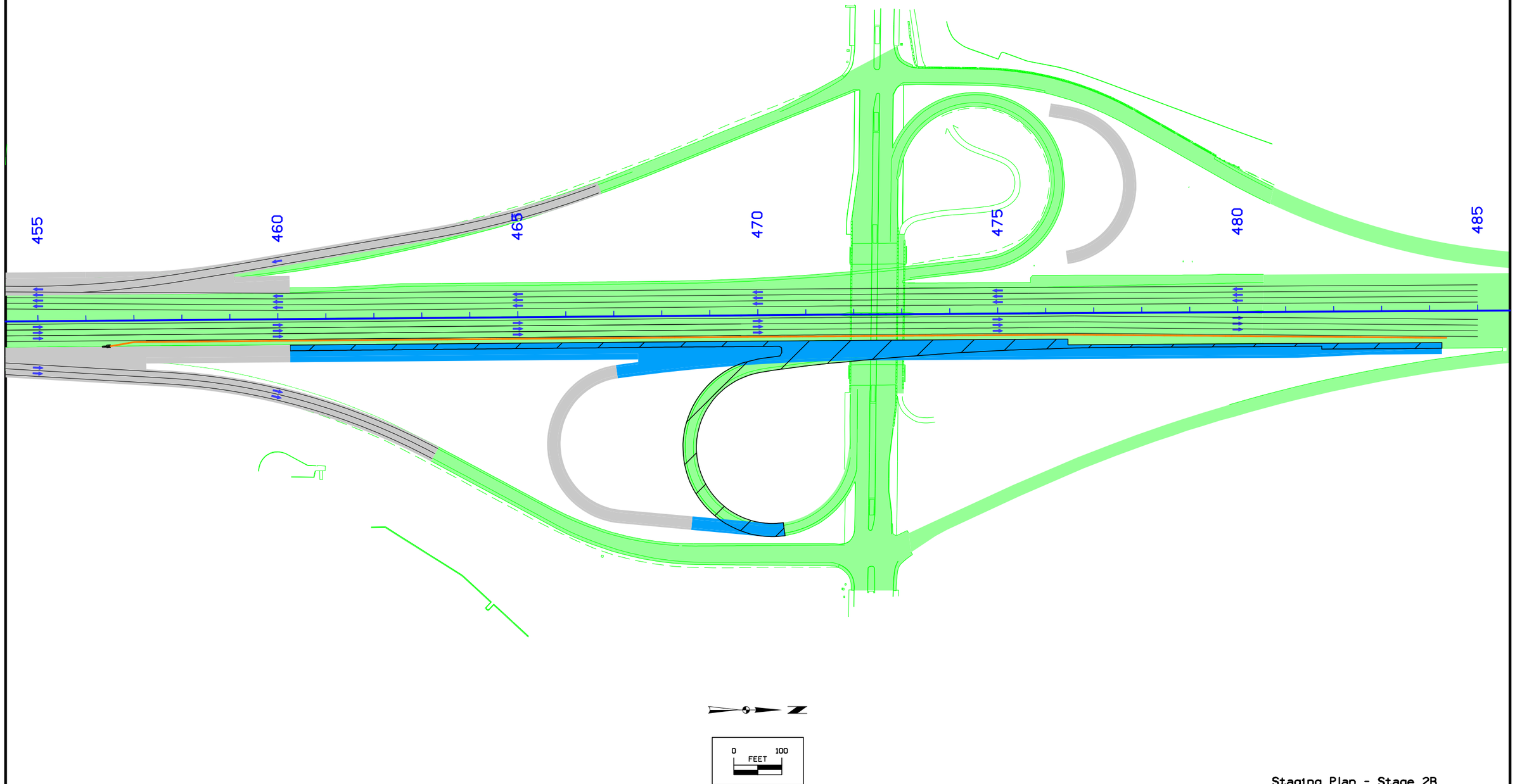
2:00:59 PM 7/1/2022 ncarhoff pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\7708006015\Design_(069)_PrelimDesign\CADD_Files\Sheet_Files\SHT_77080069Z08_J35.dgn



Staging Plan - Stage 2B

FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER J.36

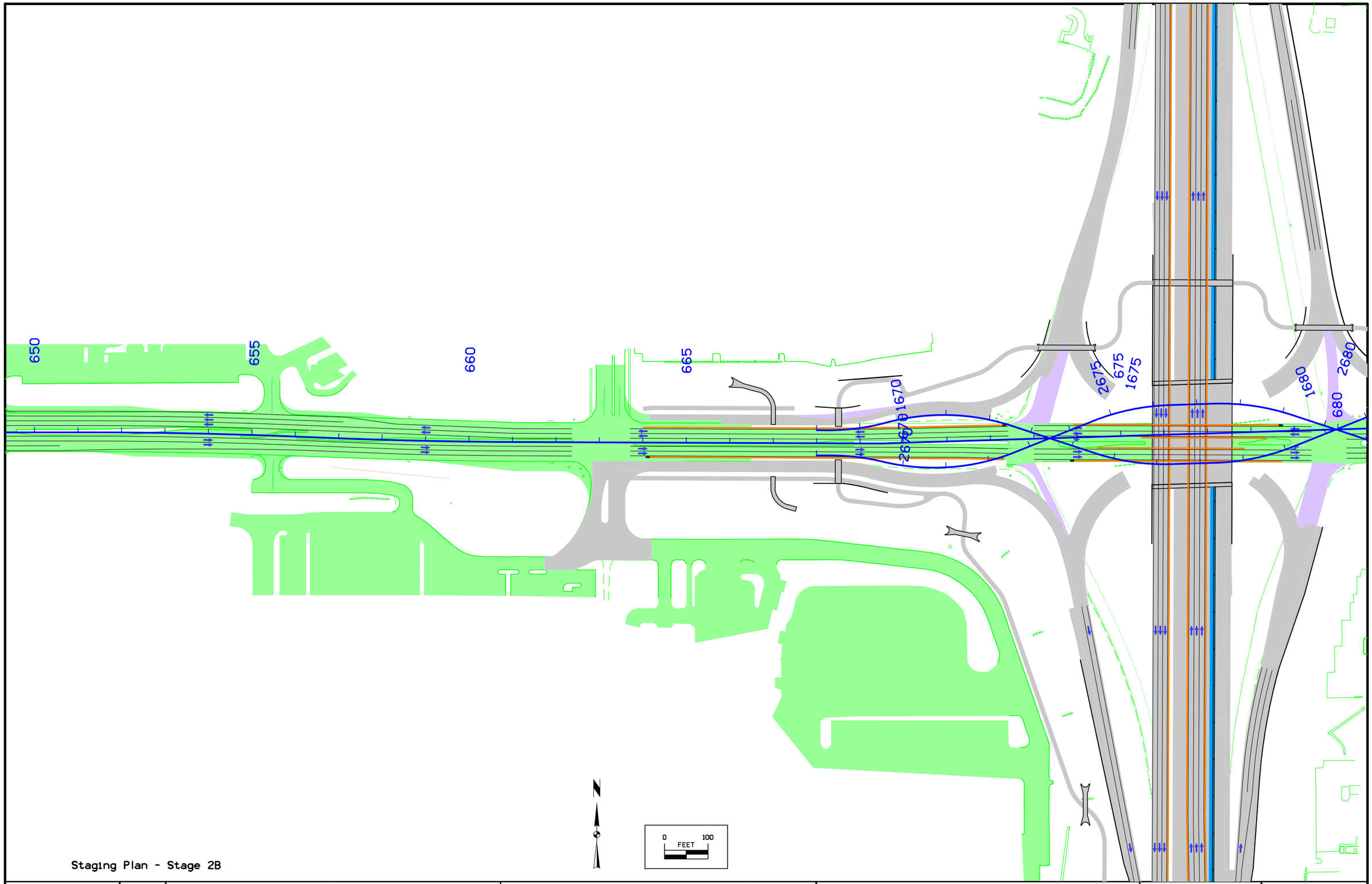
2:01:22 PM 7/1/2022 ncarhoff pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\7708006015\Design_(069)_PrelimDesign\CADD_Files\Sheet_Files\SHT_77080069Z08_J36.dgn



Staging Plan - Stage 2B

FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER J.37

2:02:00 PM 7/1/2022 ncarhoff pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\7708006015\Design_(069)_PrelimDesign\CADD_Files\Sheet_Files\SHT_77080069Z08_J37.dgn



Staging Plan - Stage 2B

FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER J.38

2:02:17 PM 7/1/2022 ncarhoff pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\7708006015\Design_(069)_PrelimDesign\CADD_Files\Sheet_Files\SHT_77080069Z08_J38.dgn

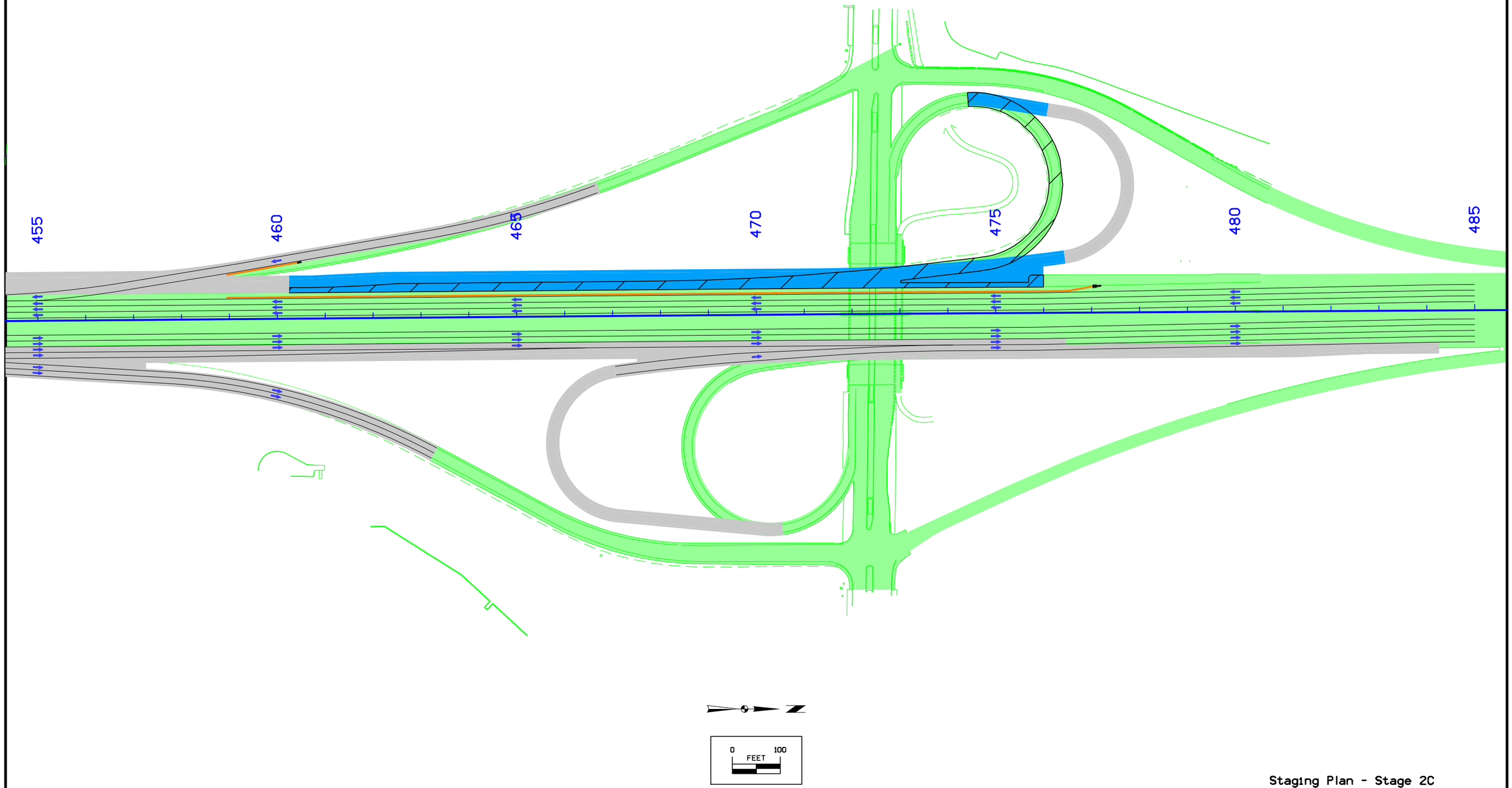
405 410 415 420 425 430 435

0 100
FEET

Staging Plan - Stage 2C

FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER J.39

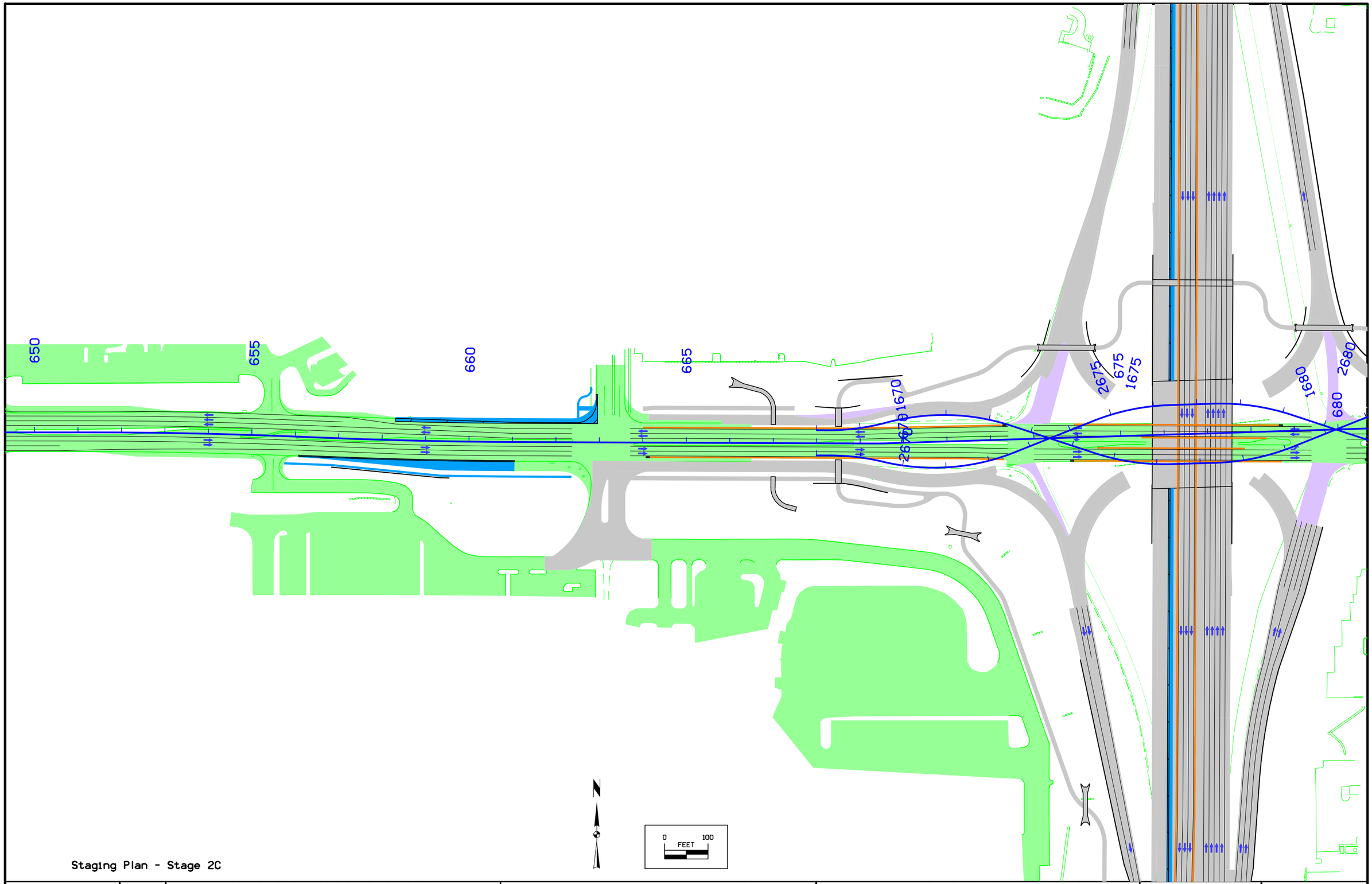
2:02:34 PM 7/1/2022 ncarhoff pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\7708006015\Design_(069)_PrelimDesign\CADD_Files\Sheet_Files\SHT_77080069Z08_J39.dgn



Staging Plan - Stage 2C

FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER J.40

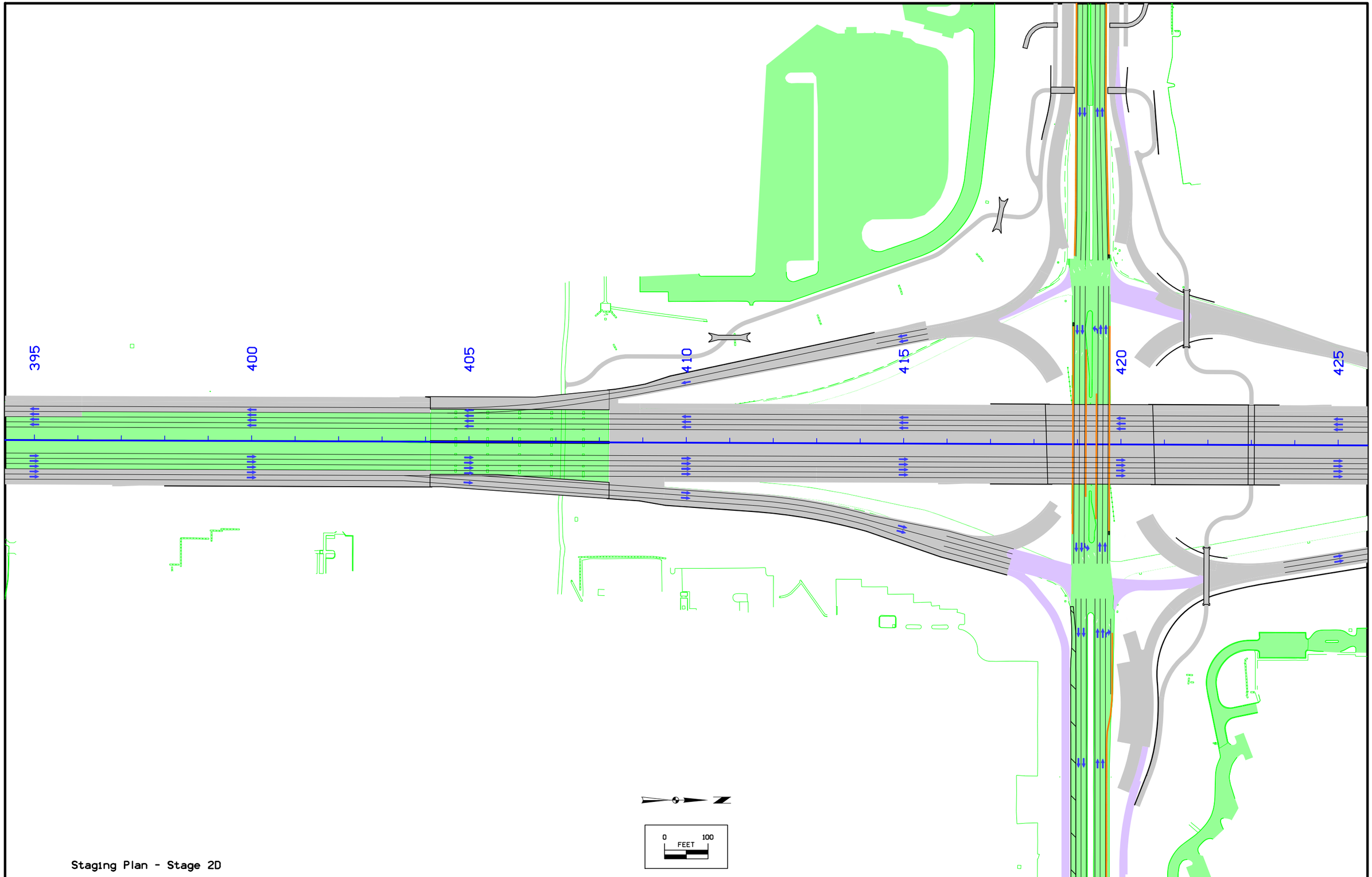
2:02:51 PM 7/1/2022 ncarhoff pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\7708006015\Design_(069)_PrelimDesign\CADD_Files\Sheet_Files\SHT_77080069Z08_J40.dgn



Staging Plan - Stage 2C

FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER J.41

2:03:08 PM 7/1/2022 ncarhoff pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\7708006015\Design_(069)_PrelimDesign\CADD_Files\Sheet_Files\SHT_77080069Z08_J41.dgn



Staging Plan - Stage 2D

FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER J.42

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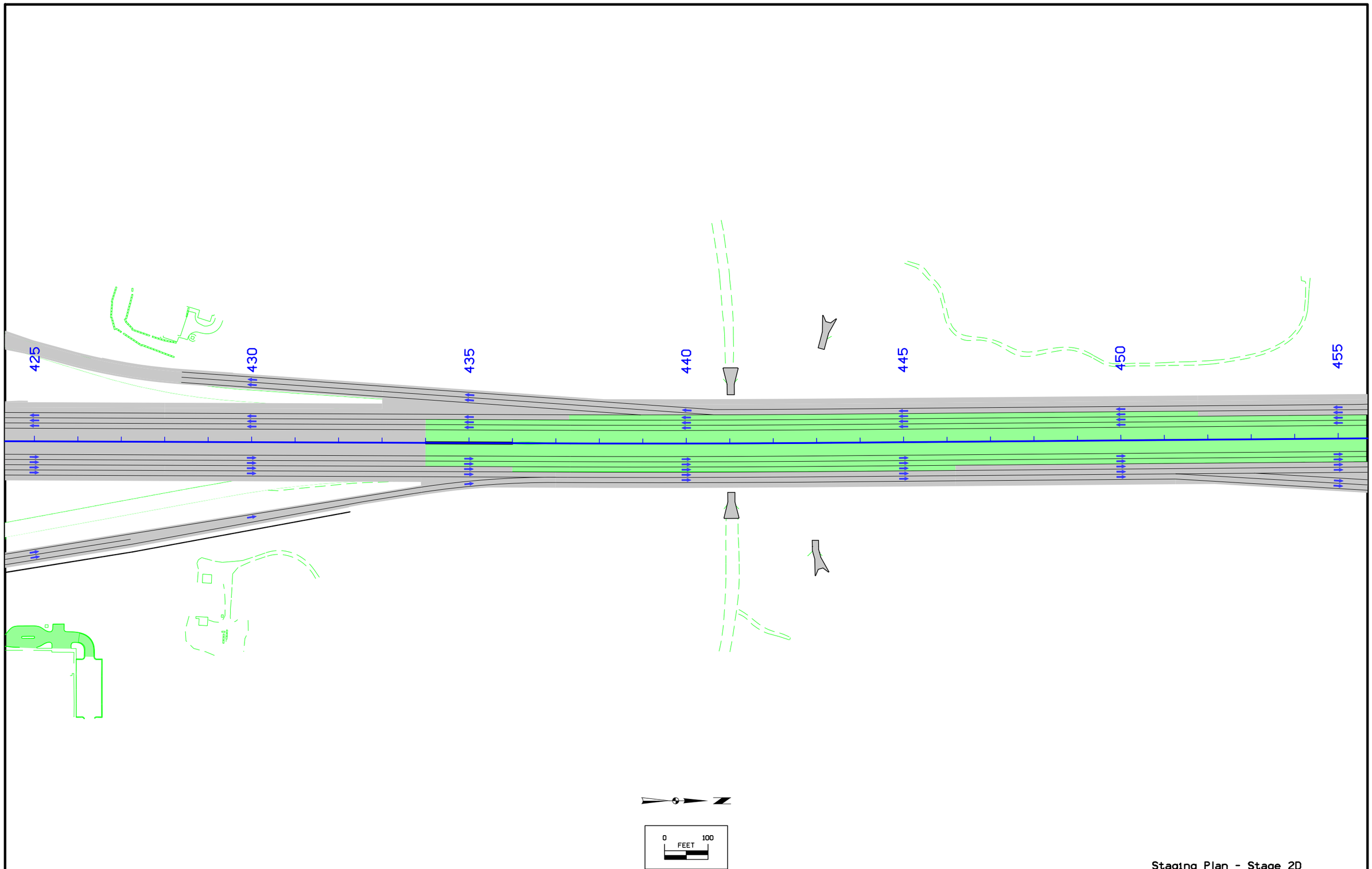
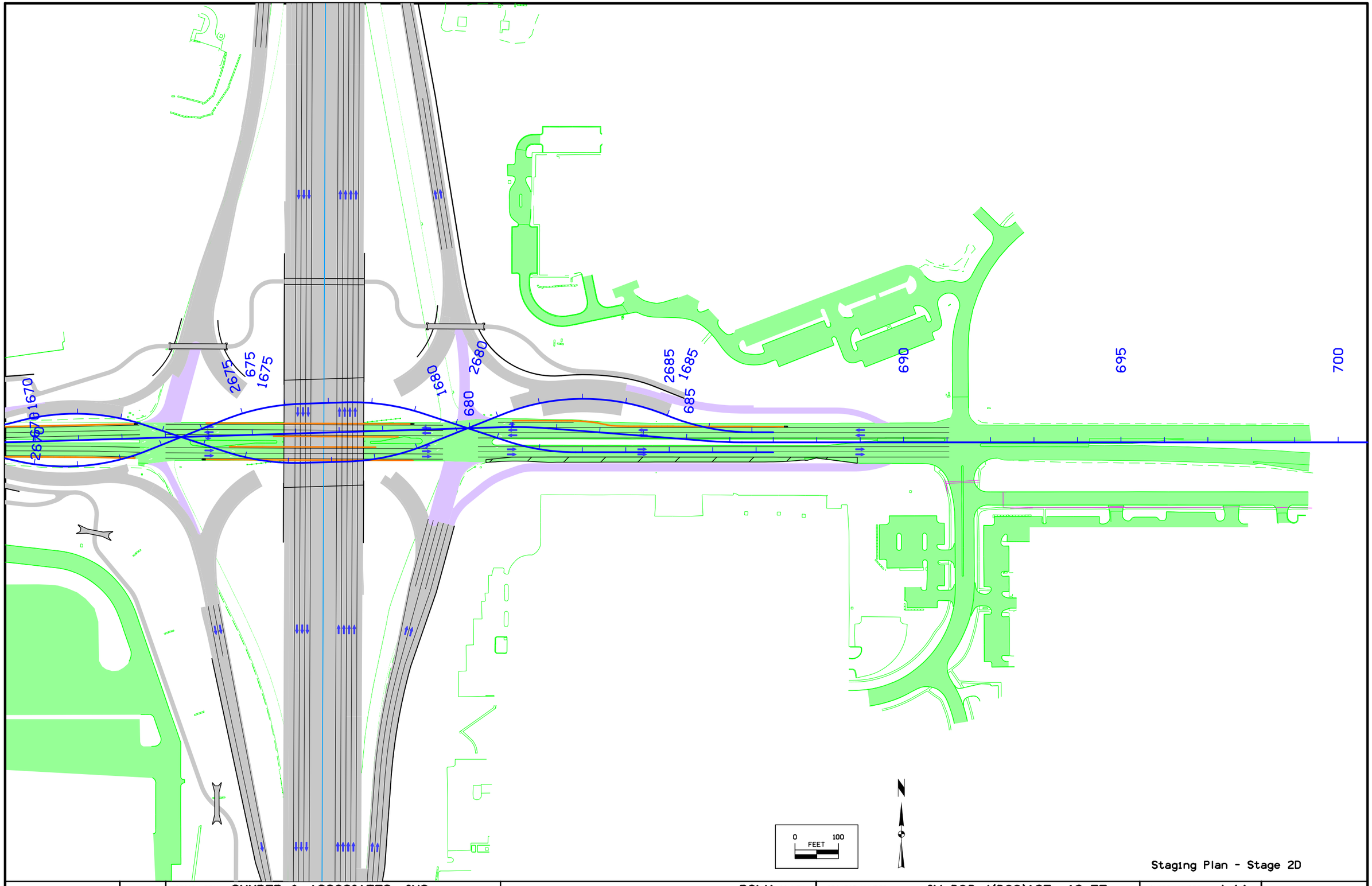


Staging Plan - Stage 2D

FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER J.43

2:03:50 PM 7/1/2022 ncarhoff pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\7708006015\Design_(069)_PrelimDesign\CADD_Files\Sheet_Files\SHT_77080069Z08_J43.dgn



Staging Plan - Stage 2D

FILE NO.	ENGLISH	DESIGN TEAM	SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER	IM-080-4(069)125--13-77	SHEET NUMBER	J.44

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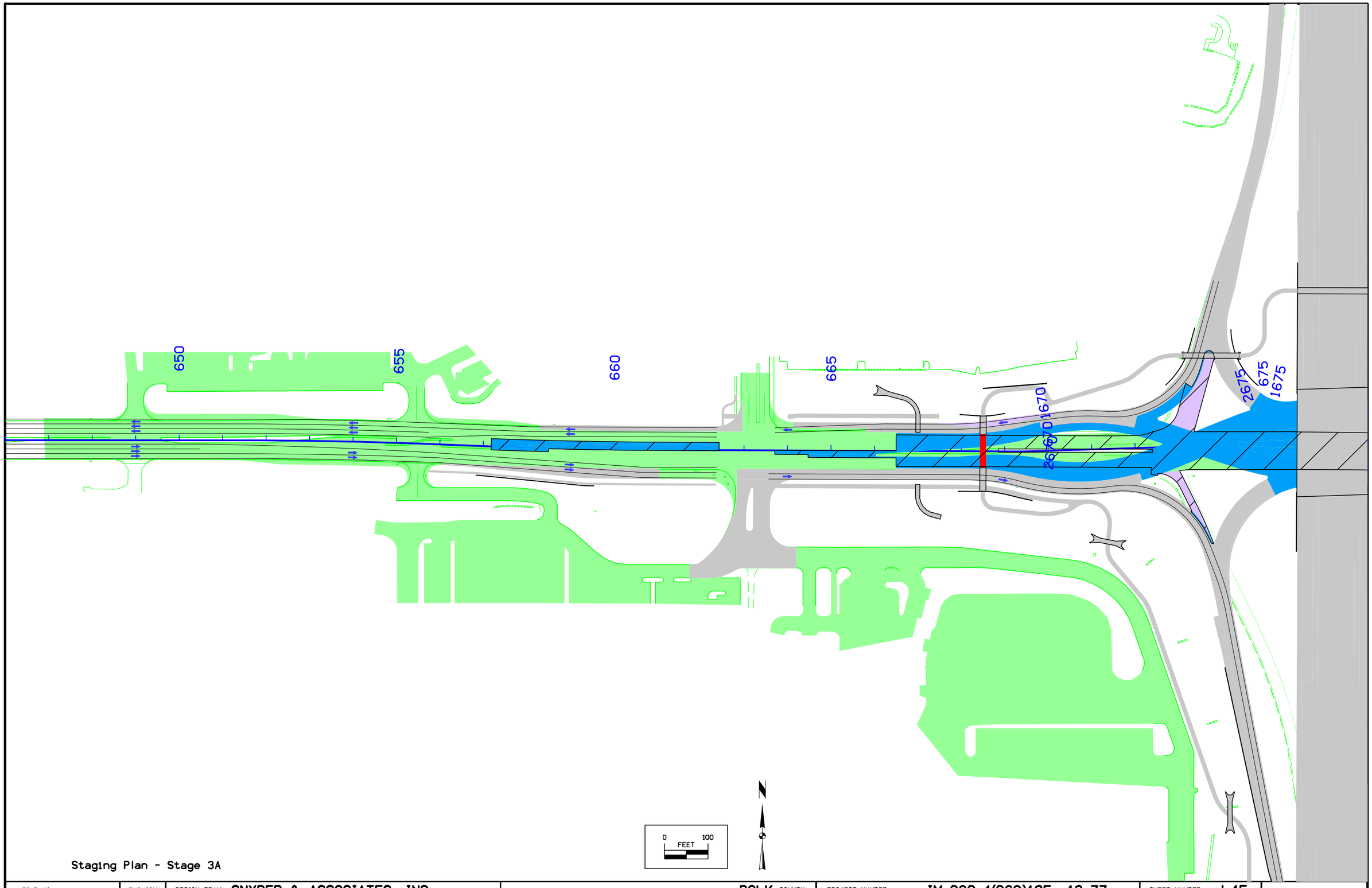
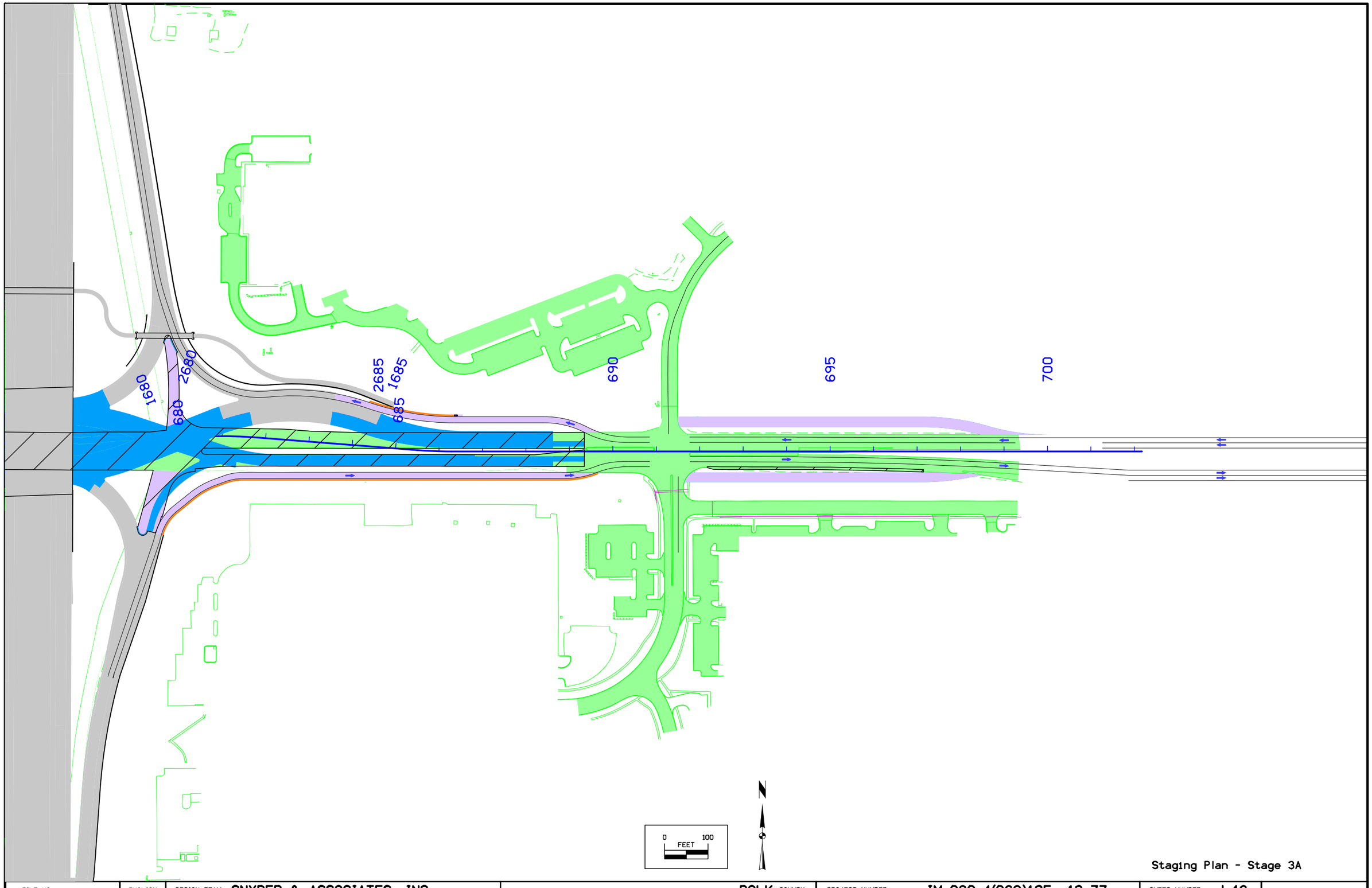


Staging Plan - Stage 3A

FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER J.45



Staging Plan - Stage 3A

FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER J.46

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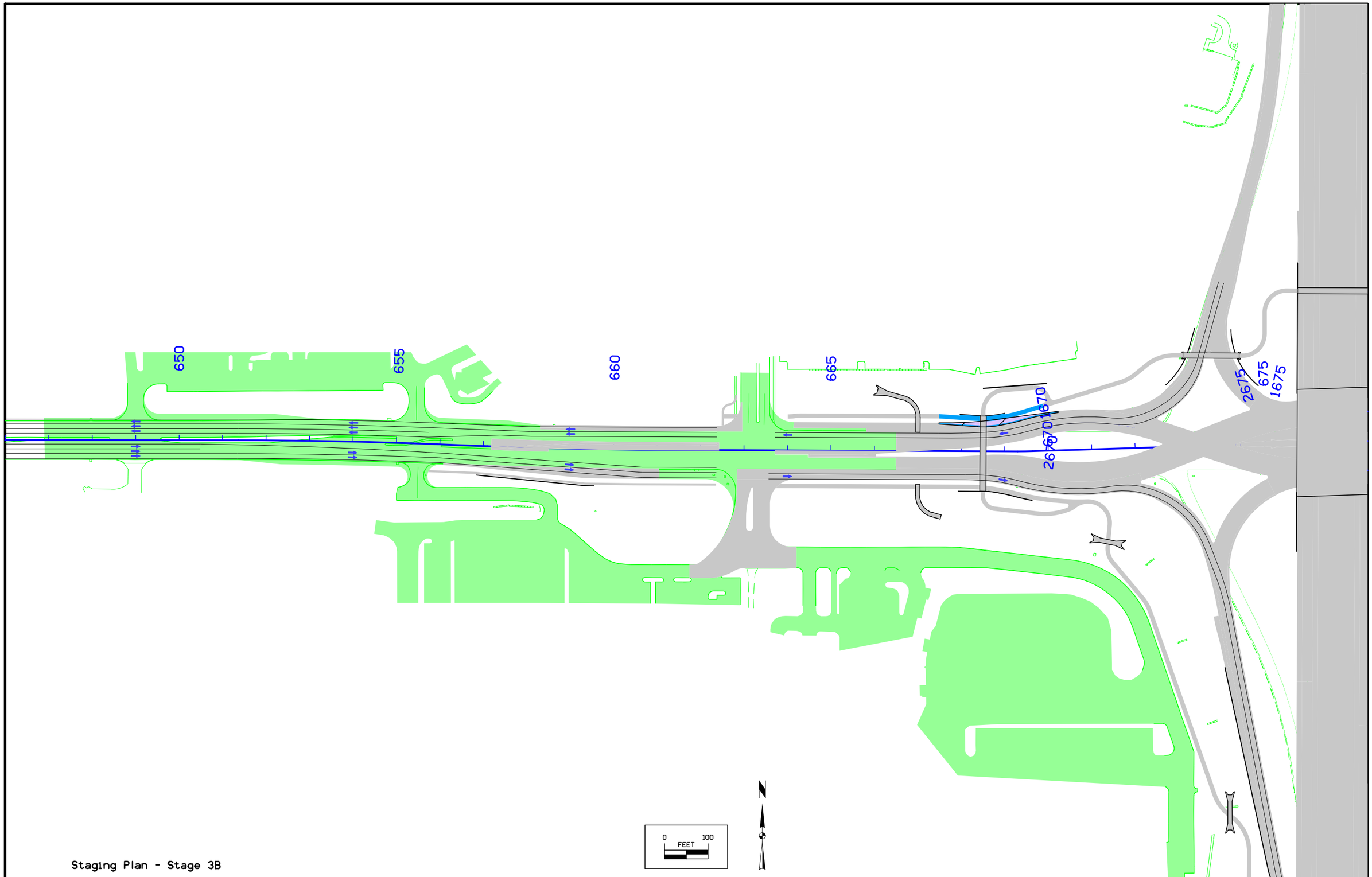
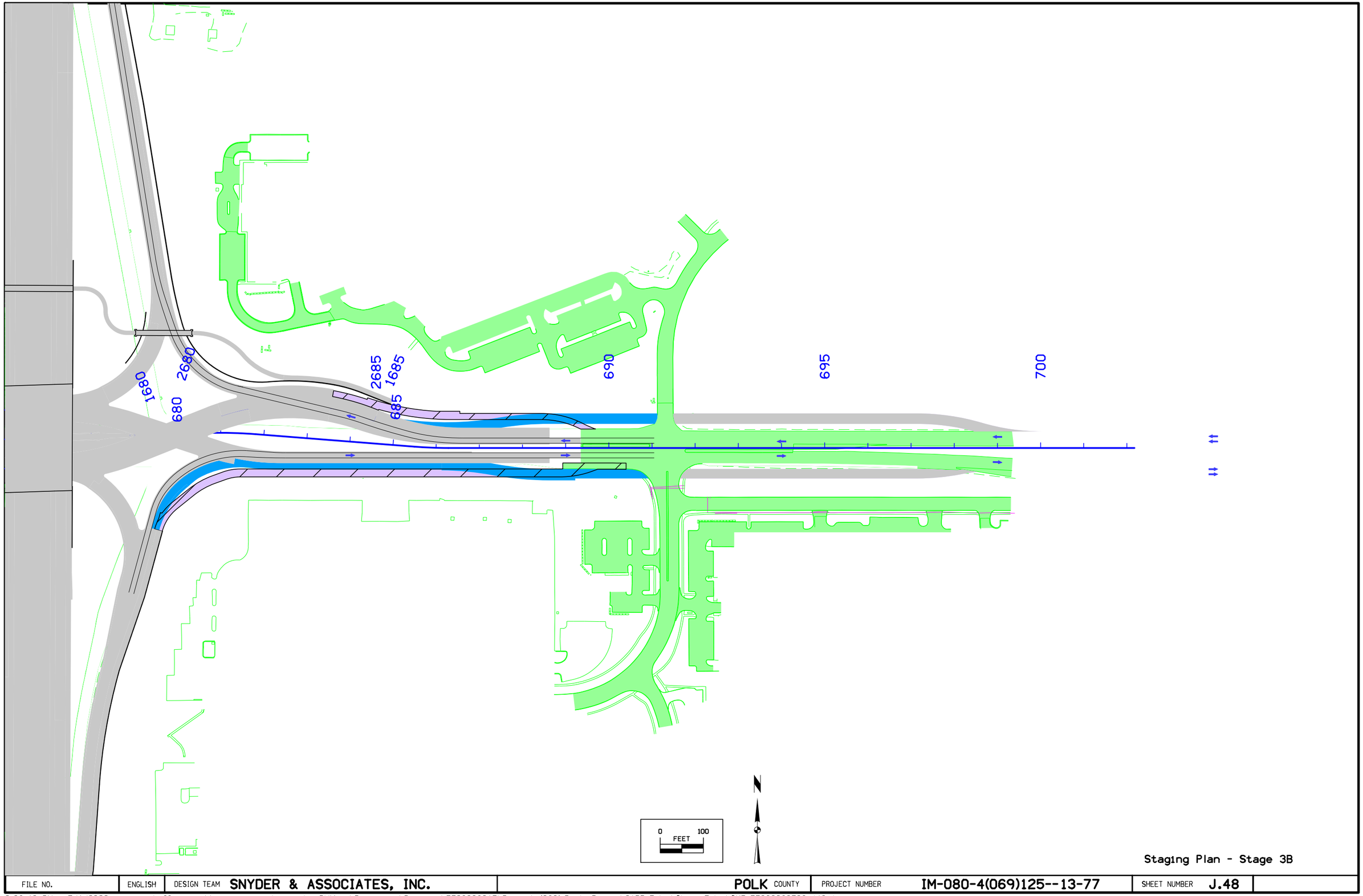


Staging Plan - Stage 3B

FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER J.47

2:06:22 PM 7/1/2022 ncarhoff pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\7708006015\Design_(069)_PrelimDesign\CADD_Files\Sheet_Files\SHT_77080069Z08_J47.dgn



Staging Plan - Stage 3B

FILE NO.	ENGLISH	DESIGN TEAM	SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER	IM-080-4(069)125--13-77	SHEET NUMBER	J.48

2:06:43 PM 7/1/2022 ncarhoff pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\7708006015\Design_(069)_PrelimDesign\CADD_Files\Sheet_Files\SHT_77080069Z08_J48.dgn

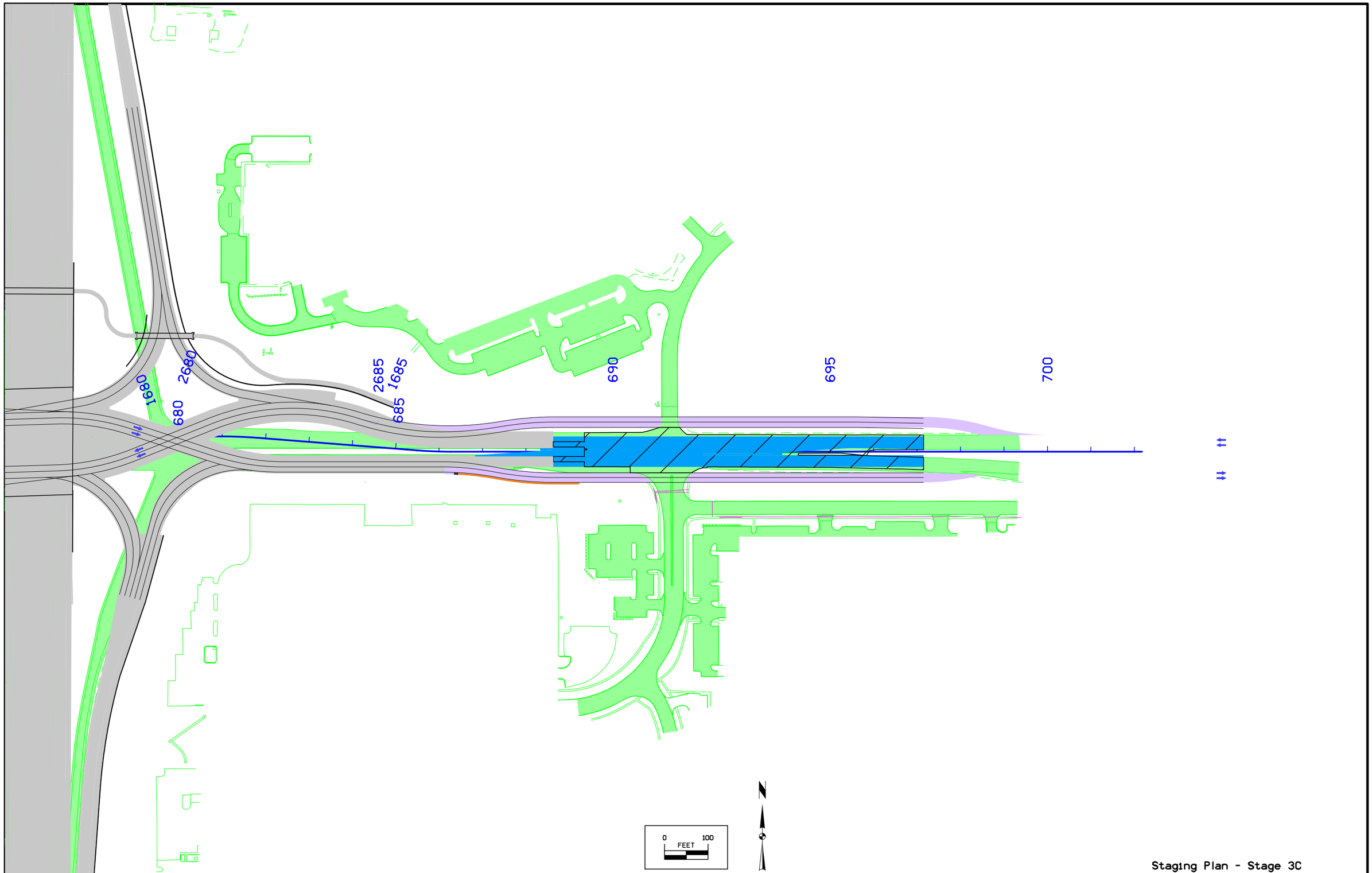
650
655
660
665
2670
1670
2675
675
1675

0 FEET 100

Staging Plan - Stage 3C

FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER J.49

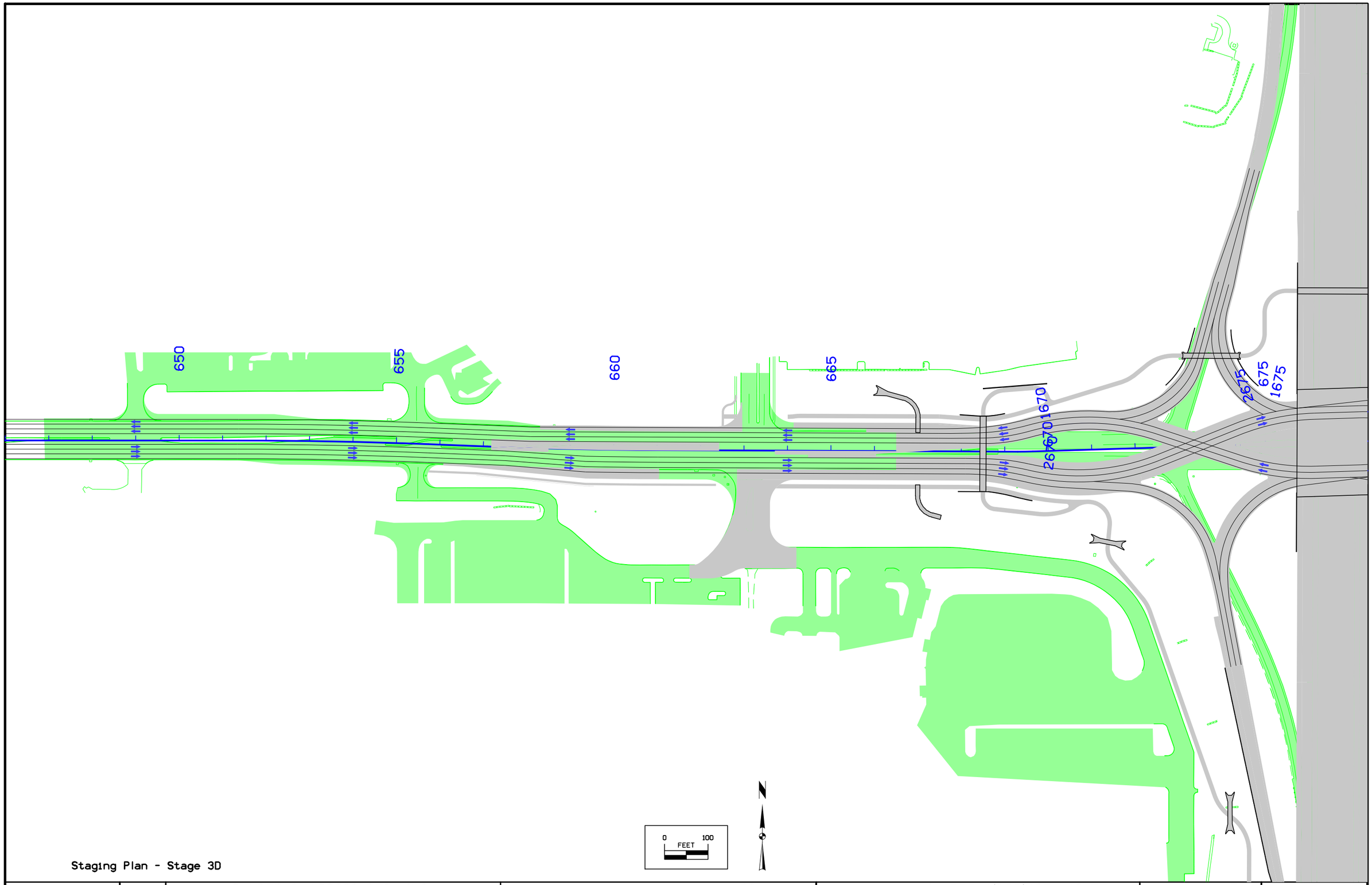
2:07:05 PM 7/1/2022 ncarhoff pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\7708006015\Design_(069)_PrelimDesign\CADD_Files\Sheet_Files\SHT_77080069Z08_J49.dgn



Staging Plan - Stage 3C

FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER J.50

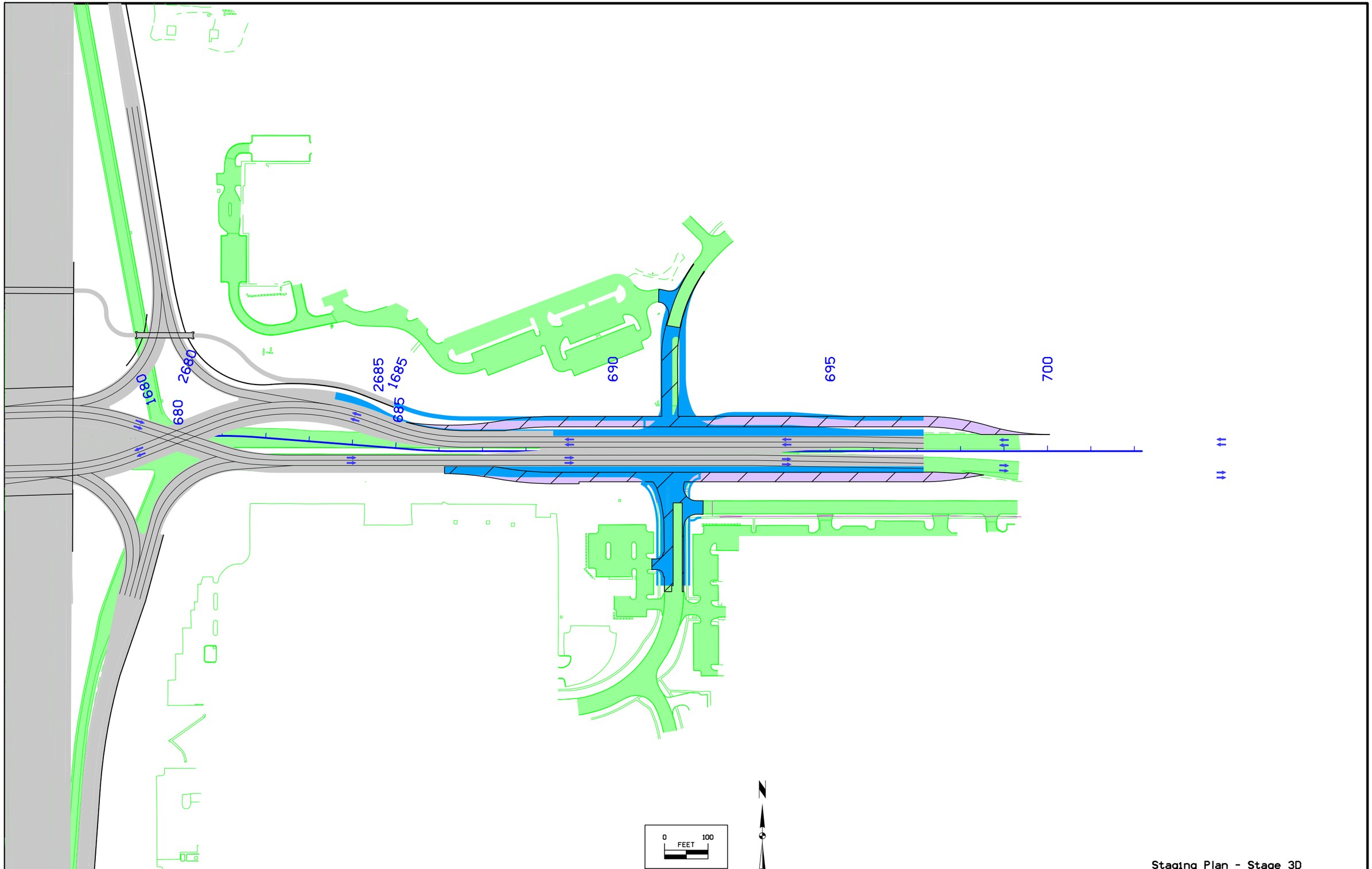
2:07:25 PM 7/1/2022 ncarhoff pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\7708006015\Design_(069)_PrelimDesign\CADD_Files\Sheet_Files\SHT_77080069Z08_J50.dgn



Staging Plan - Stage 3D

FILE NO.	ENGLISH	DESIGN TEAM	SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER	IM-080-4(069)125--13-77	SHEET NUMBER	J.51

2:07:46 PM 7/1/2022 ncarhoff pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\7708006015\Design_(069)_PrelimDesign\CADD_Files\Sheet_Files\SHT_77080069Z08_J51.dgn



Staging Plan - Stage 3D

FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER J.52

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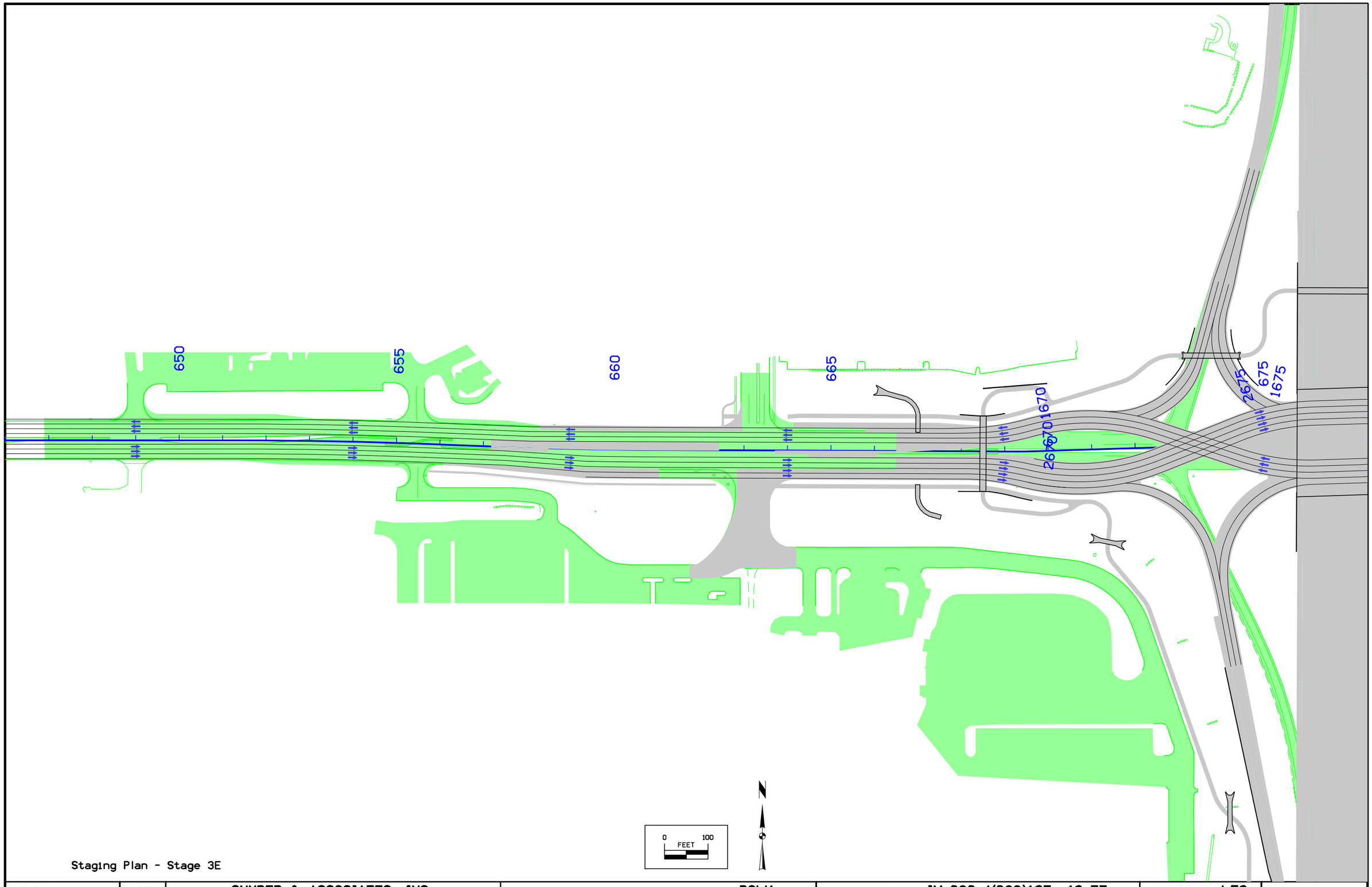

Staging Plan - Stage 3E

FILE NO.	ENGLISH	DESIGN TEAM	SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER	IM-080-4(069)125--13-77	SHEET NUMBER	J.53

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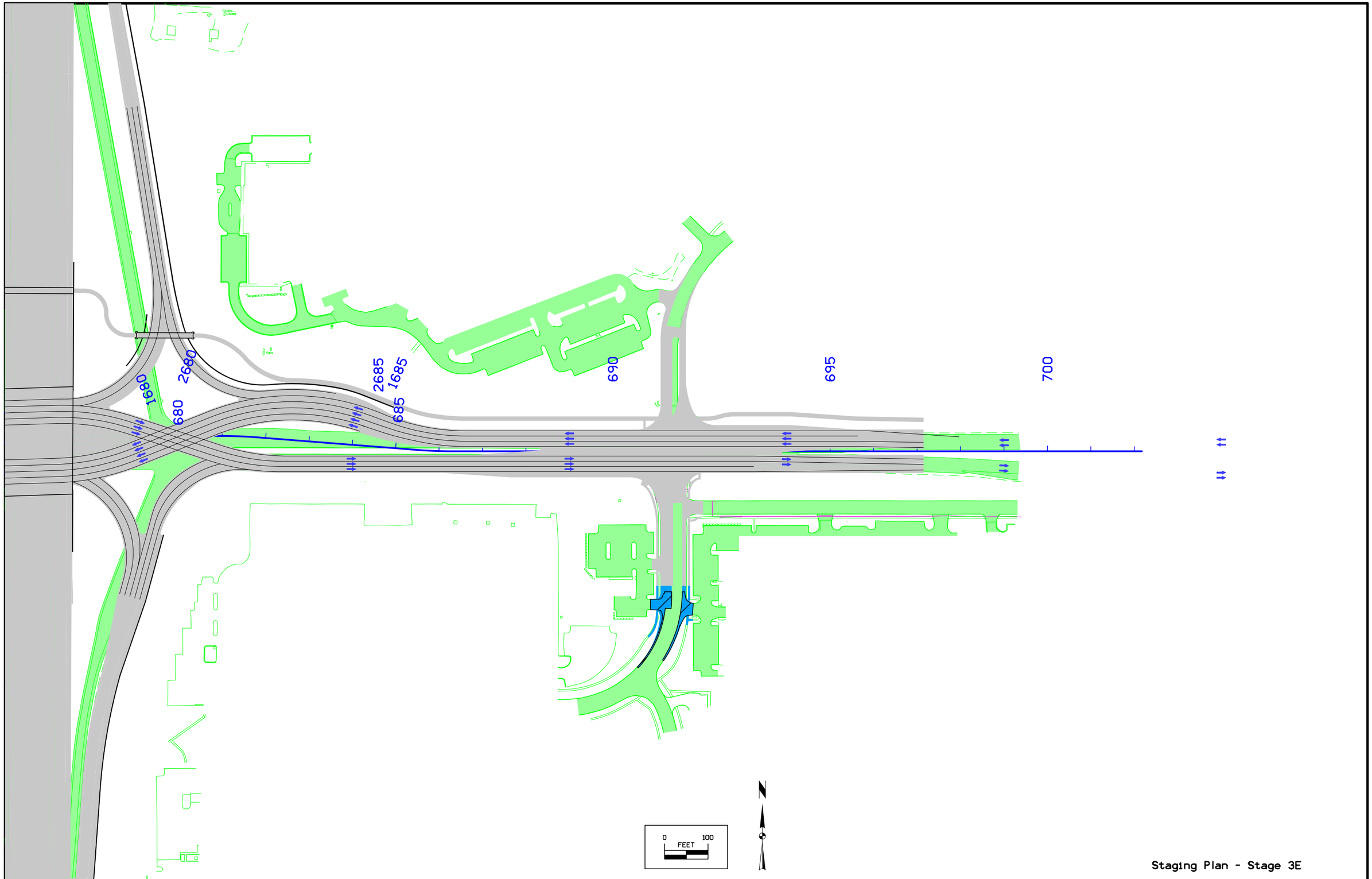

Staging Plan - Stage 3E

FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER J.54

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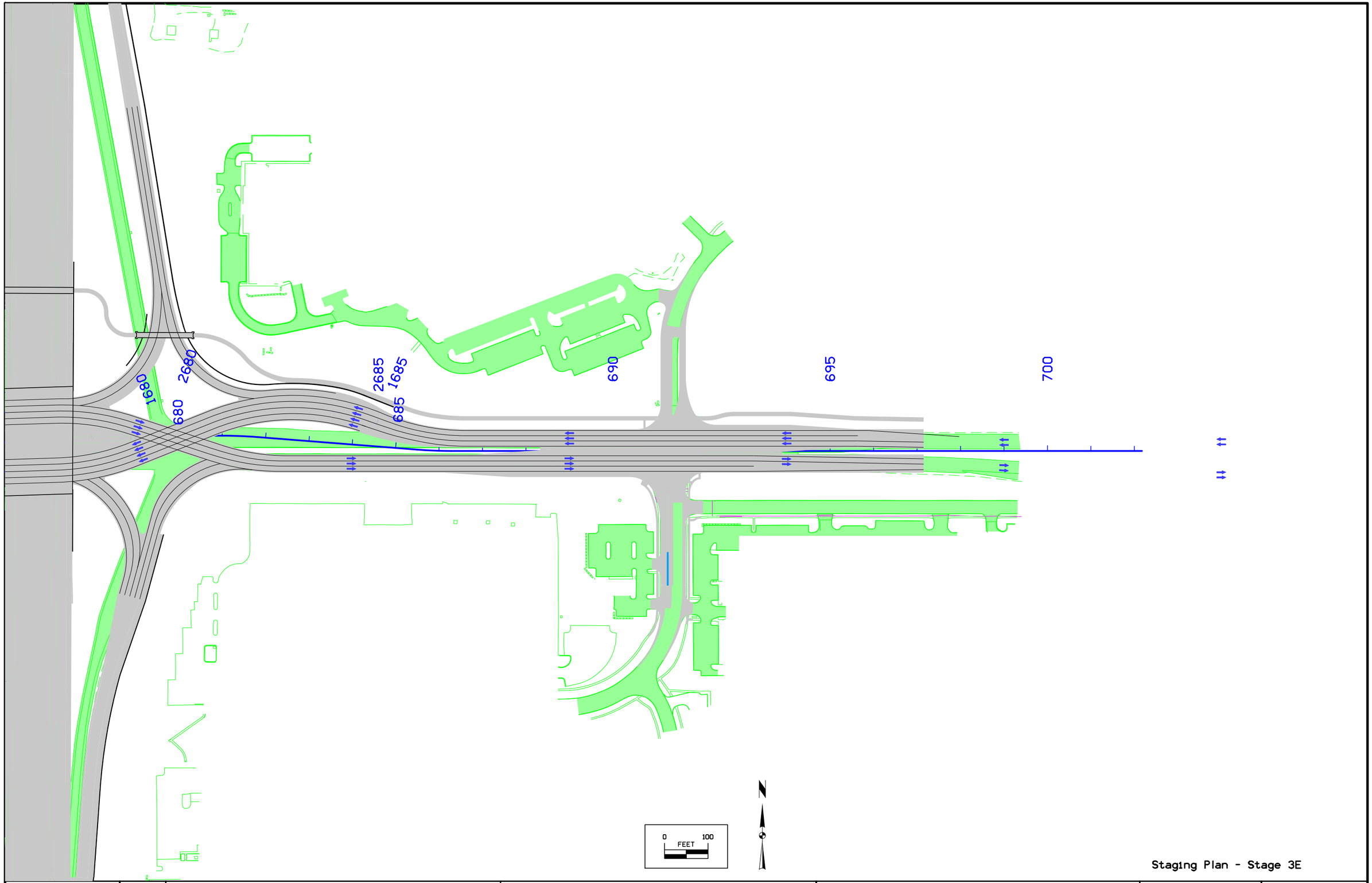
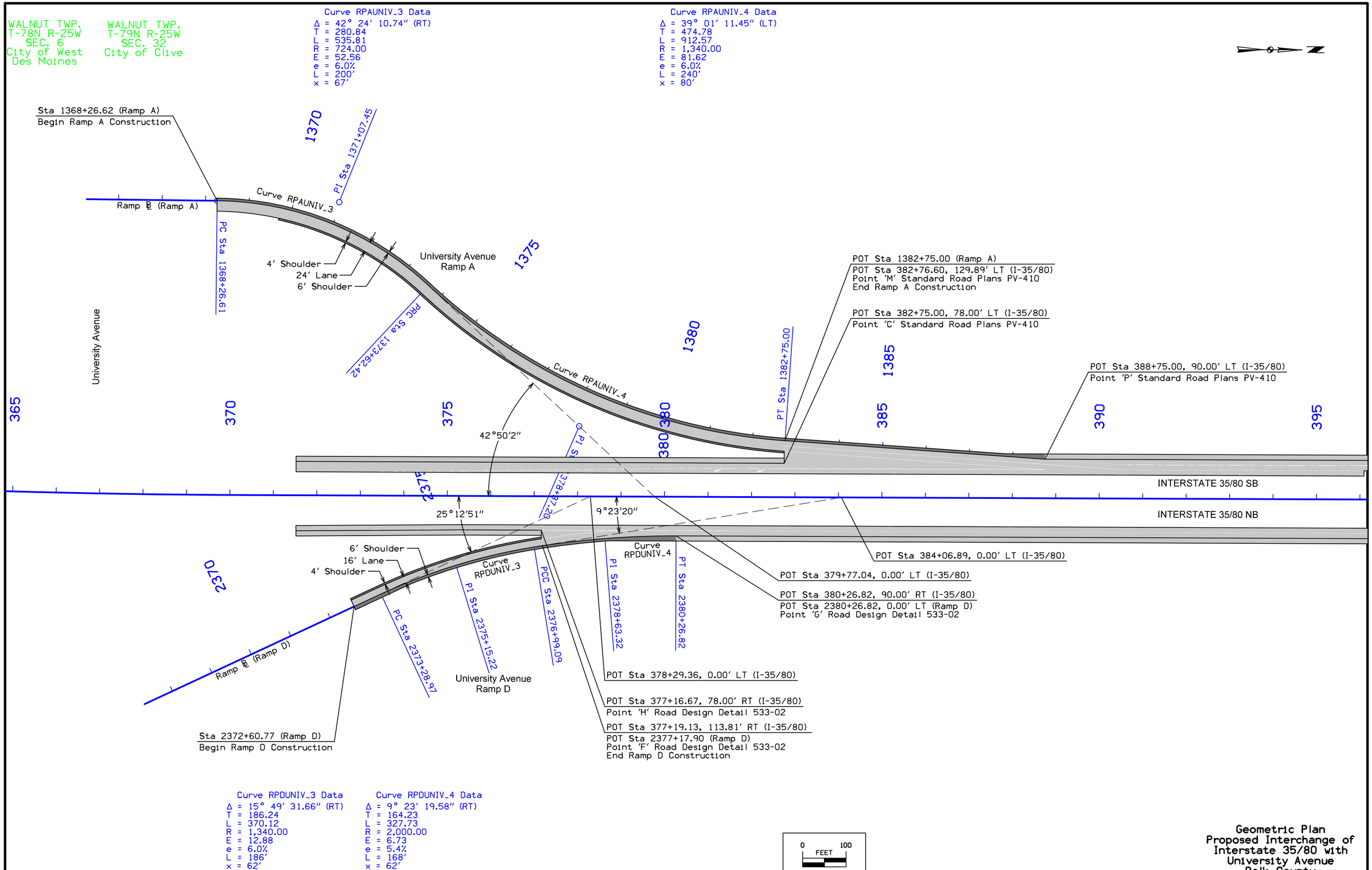


Staging Plan - Stage 3E

FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER J.55

2:09:15 PM 7/1/2022 ncarhoff pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\7708006015\Design_(069)_PrelimDesign\CADD_Files\Sheet_Files\SHT_77080069Z08_J55.dgn



Geometric Plan
Proposed Interchange of
Interstate 35/80 with
University Avenue
Polk County

FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER K.1

2:14:05 PM 7/1/2022 ncarhoff pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\7708006015\Design_(069)_PrelimDesign\CADD_Files\Sheet_Files\SHT_77080069Z08_K01.dgn

WALNUT TWP.
T-78N R-25W
SEC. 6
City of West Des Moines

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

Curve RPAUNIV_3 Data
Δ = 42° 24' 10.74" (RT)
T = 280.84
L = 535.81
R = 724.00
E = 52.56
e = 6.0%
Ls = 200'
x = 67'

Sta 1368+26.62 (Ramp A)
Begin Ramp A Construction

POT Sta 1365+26.61

PC Sta 1368+26.61

PT Sta 1371+07.45

Curve RPAUNIV_3

Ramp E

Construction Limits

Existing ROW

Construction Limits

PRC Sta 1373+62.42

Ramp B (Ramp A)

University Avenue

0 FEET 50

University Avenue
Ramp A

VPI +00.000
Elv 942.76
K = 445
Len 200.00 ft
ex = -0.11'
SSD = 1578'

Sta 1368+26.62
Begin Paving
Elev. = 944.15

-0.802%

-1.251%

+50 LT
928.80

-2.340% LT DG

+00 LT
922.95

-6.340% LT DG

-6.340% LT DG

960 950 940 930 920 910 900 890

Lt U.A.C. Ditch Grade Lt

Rt No Ditch 5' Ditch Depth Rt

1365 946.07 1366 945.86 1367 945.35 1368 944.84 1369 944.37 943.96 943.98 943.56 943.36 943.13 942.50 1370 942.65 941.41 942.11 940.09 1371 941.51 939.13 940.88 938.40 1372 940.26 937.70 939.63 935.42 1373 939.01 933.55 938.38 931.82 1374 937.75 929.70 1375 937.13 923.55 1376 936.50 917.52 935.88 908.52 1377 935.25 897.12 934.63 896.57 1378 934.00 898.26 933.38 901.65 932.75 906.82

FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER K.2

4:34:18 PM 11/2/2022 ncarhoff pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\7708006015\Design_(069)_PrelimDesign\CADD_Files\Sheet_Files\SHT_77080069Z08_K02.dgn

Sta.1376+73.82
Install 66" X 328' RCP
78" X 32' RCP and
Slope Tapered Pipe
F.L. = Lt 891.25
Rt 899.00

STA. 1578+50
SKEW 45°LT AH
5.0'x5.3'x 486.5' RCB
D.A.=225 (PLAN) AC-H,R (PLAN)
(Remove 216' Rt)

Sta.1578+50.00
Install Partial Barrel
Standard 45° Skew
5'x5' Parallel Wing
Headwall

Curve RPAUNIV_4 Data
Δ = 39° 01' 11.45" (LT)
T = 474.78
L = 912.57
R = 1,340.00
E = 81.62
e = 6.0%
L = 240'
x = 80'

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

0 50 FEET

Construction Limits

Existing ROW

Ramp E (Ramp A)

Curve RPAUNIV_4

POT Sta 388+75.00, 90.00' LT (I-35/80)
= POT Sta 1388+74.73 (Ramp A)

8"X48' PVC

POT Sta 1382+75.00 (Ramp A)
POT Sta 382+76.60, 129.89' LT (I-35/80)
Point 'M' Standard Road Plans PV-410
End Ramp A Construction

POT Sta 382+75.00, 78.00' LT (I-35/80)
Point 'C' Standard Road Plans PV-410

PI Sta 1378+37.20

PT Sta 1382+75.00

INTERSTATE 35/80 SB

University Avenue
Ramp A

VPI +50.000
Elv 928.37
K = 190
Len 200.00 ft
ex = 0.26'

-1.251%

-0.200%

928.12

Sta 1382+75.00
End Paving
Elev. = 928.12

+0.504% LT DG

+50 LT
922.20

+75 LT
922.83

-6.340% LT DG

+8.843% LT DG

+00 LT
891.25

Ditch Grade

Refer to Mainline

Lt

Rt

5' Ditch Depth

No Ditch

937.75	937.13	936.50	935.88	935.25	934.63	934.00	933.38	932.75	932.12	931.50	930.87	930.25	929.62	929.06	928.63	928.34	928.17	924.73	925.88	926.37	925.98	925.77	925.14	924.51	924.72	924.61	924.40	923.77	923.31
929.70	923.55	917.52	908.52	897.12	896.57	898.26	901.65	906.82	912.46	916.75	920.60	924.76	924.72	924.36	924.27	924.20	924.34												

1374	1375	1376	1377	1378	1379	1380	1381	1382	1383	1384	1385	1386	1387	1388	1389

FILE NO.	ENGLISH	DESIGN TEAM	SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER	IM-080-4(069)125--13-77	SHEET NUMBER	K.3

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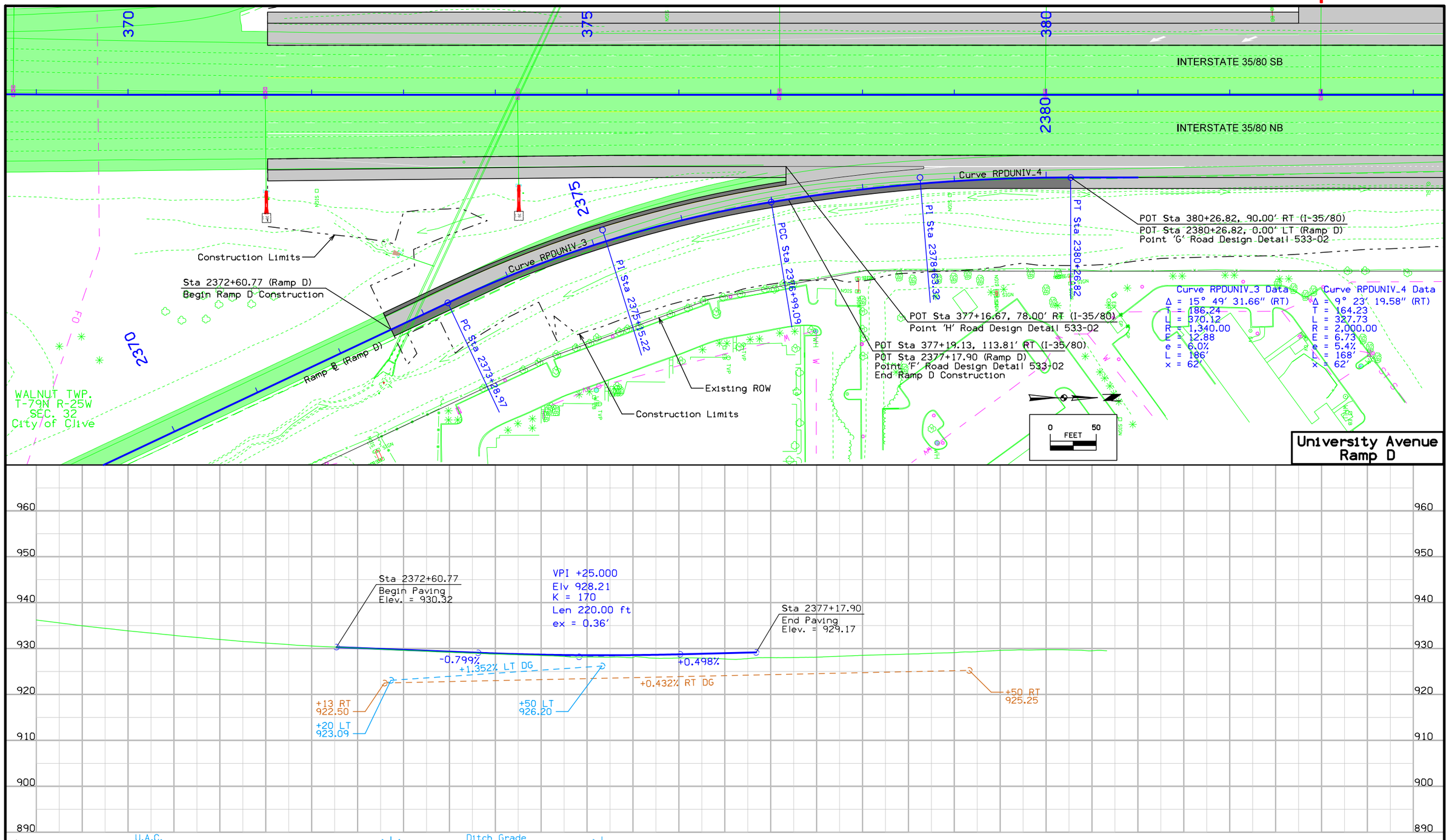
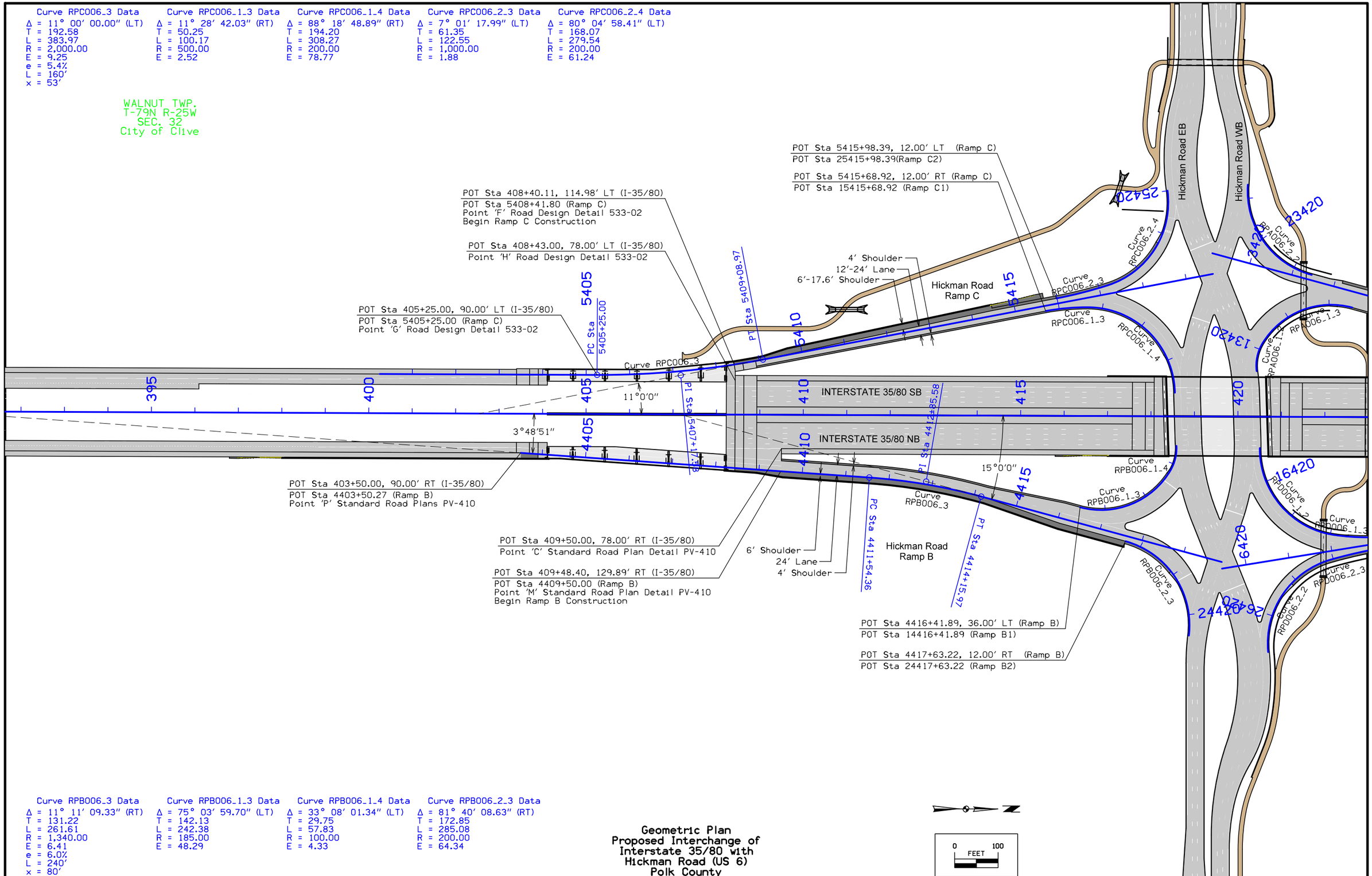


FILE NO.	ENGLISH	DESIGN TEAM	SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER	IM-080-4(069)125--13-77	SHEET NUMBER	K.4

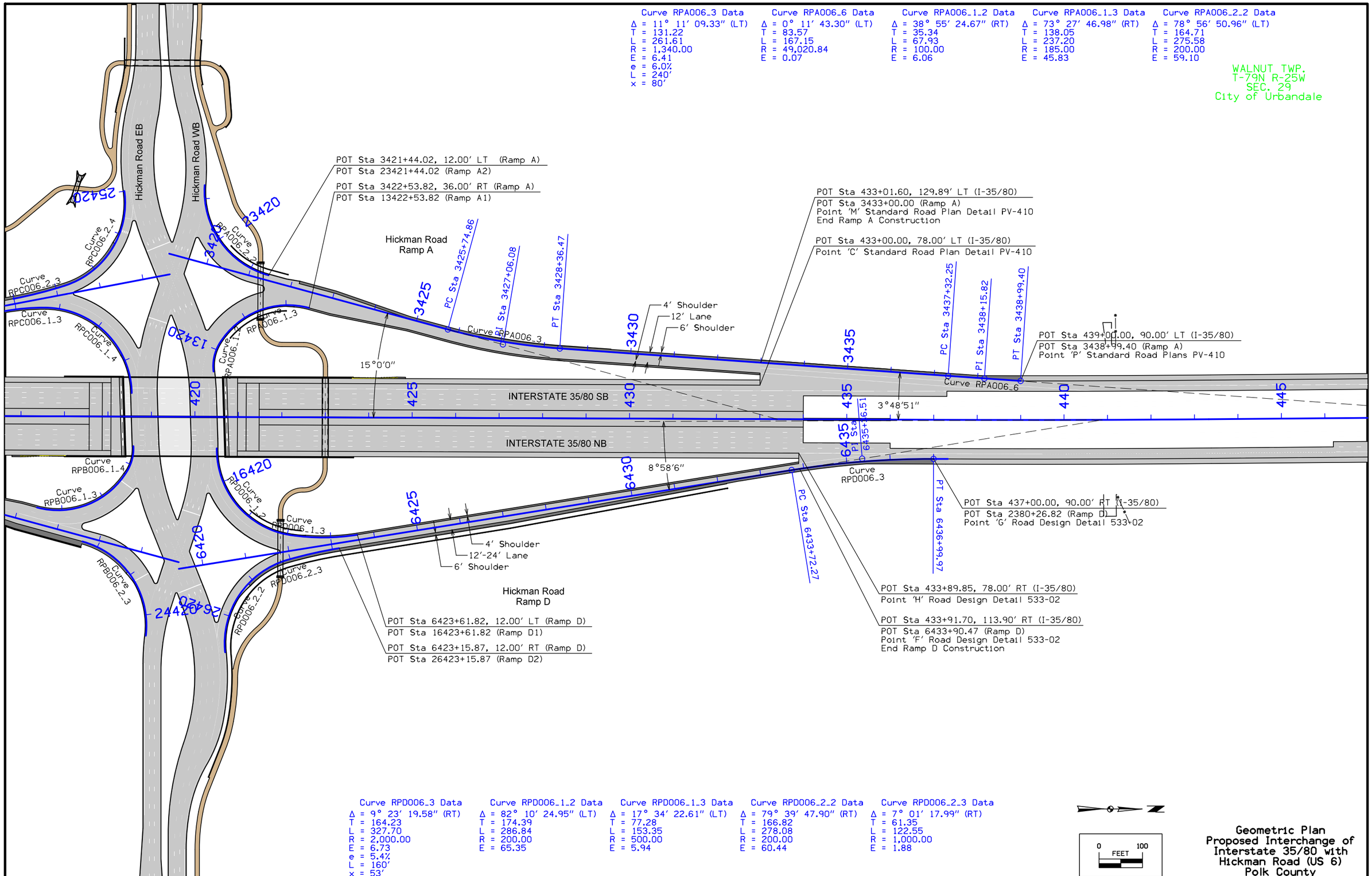
2:14:38 PM 7/1/2022 ncarhoff pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\7708006015\Design_(069)_PrelimDesign\CADD_Files\Sheet_Files\SHT_77080069Z08_K04.dgn



Geometric Plan
Proposed Interchange of
Interstate 35/80 with
Hickman Road (US 6)
Polk County

FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER K.5

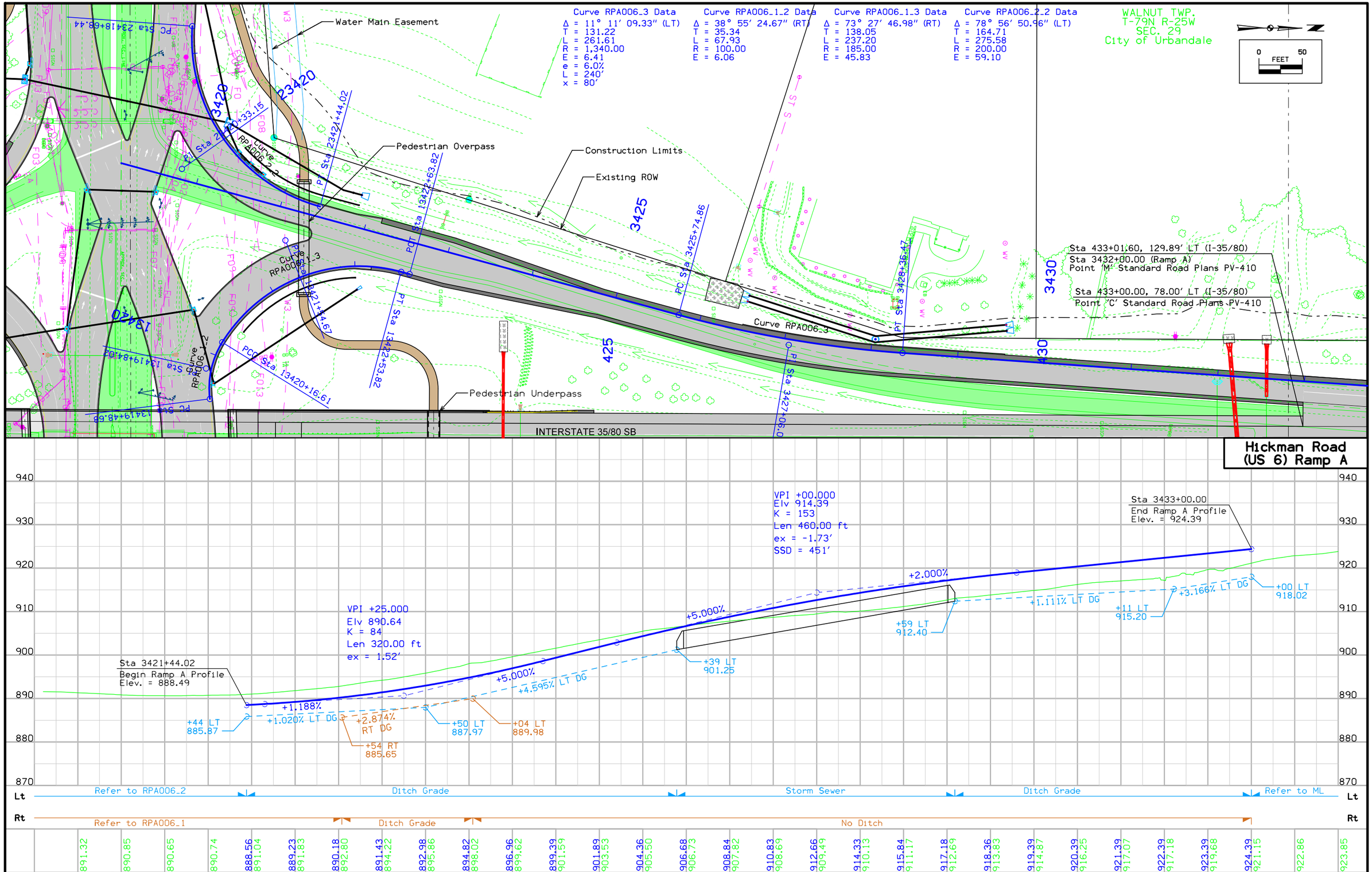
2:14:45 PM 7/1/2022 ncarhoff pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\7708006015\Design_(069)_PrelimDesign\CADD_Files\Sheet_Files\SHT_77080069Z08_K05.dgn



Geometric Plan
Proposed Interchange of
Interstate 35/80 with
Hickman Road (US 6)
Polk County

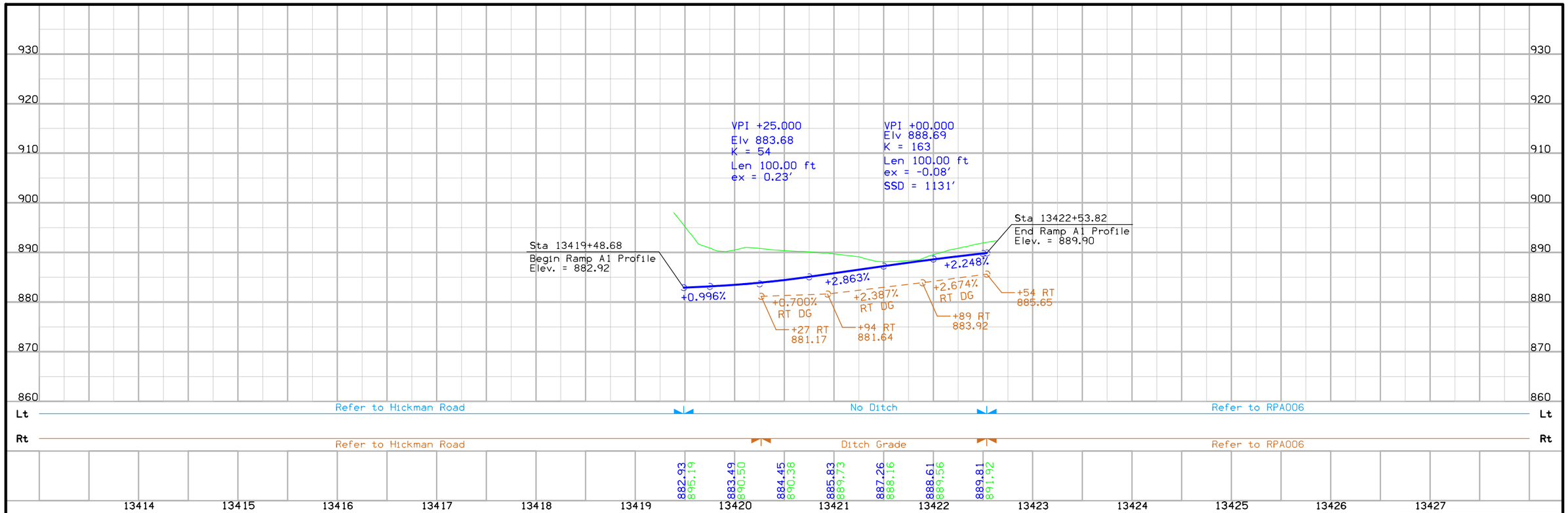
FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER K.6

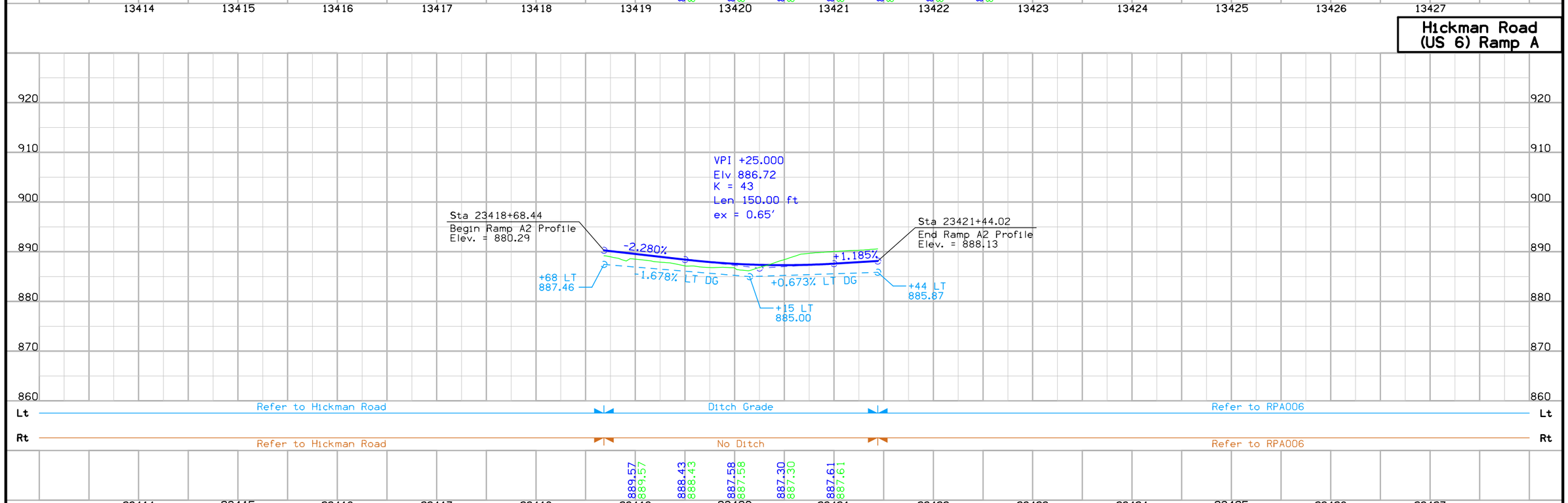
4:15:52 PM 7/1/2022 ncarhoff pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\7708006015\Design_(069)_PrelimDesign\CADD_Files\Sheet_Files\SHT_77080069Z08_K06.dgn



FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER K.7

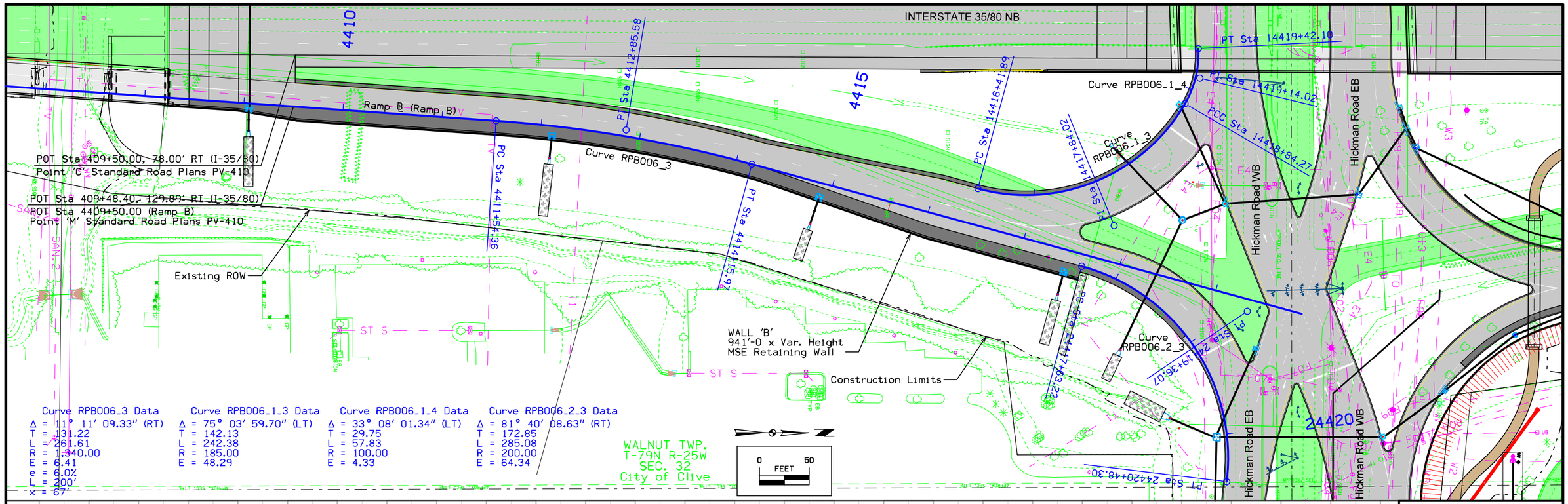
2:15:05 PM 7/1/2022 ncarhoff pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\7708006015\Design_(069)_PrelimDesign\CADD_Files\Sheet_Files\SHT_77080069Z08_K07.dgn





FILE NO.	ENGLISH	DESIGN TEAM	SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER	IM-080-4(069)125--13-77	SHEET NUMBER	K.8

2:15:11 PM 7/1/2022 ncarhoff pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\7708006015\Design_(069)_PrelimDesign\CADD_Files\Sheet_Files\SHT_77080069Z08_K08.dgn



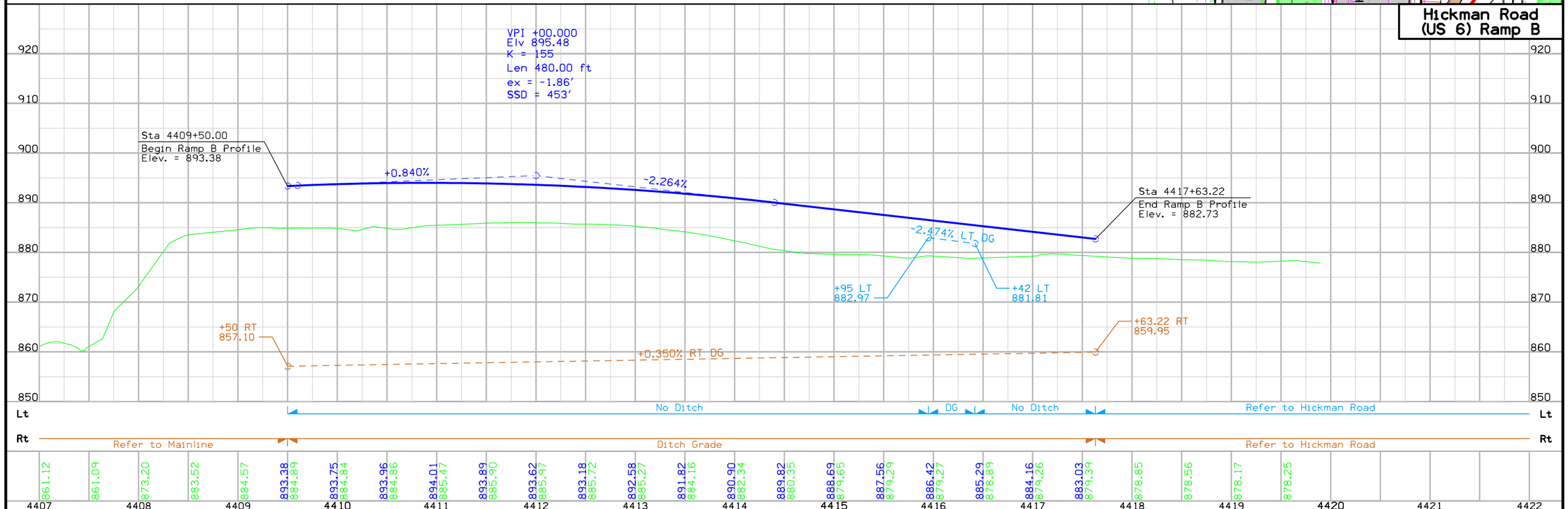
Curve RPB006_3 Data
Δ = 11° 11' 09.33" (RT)
T = 131.22
L = 261.61
R = 1,340.00
E = 6.41
e = 6.0%
L = 200'
x = 67'

Curve RPB006_1_3 Data
Δ = 75° 03' 59.70" (LT)
T = 142.13
L = 242.38
R = 185.00
E = 48.29

Curve RPB006_1_4 Data
Δ = 33° 08' 01.34" (LT)
T = 29.75
L = 57.83
R = 100.00
E = 4.33

Curve RPB006_2_3 Data
Δ = 81° 40' 08.63" (RT)
T = 172.85
L = 285.08
R = 200.00
E = 64.34

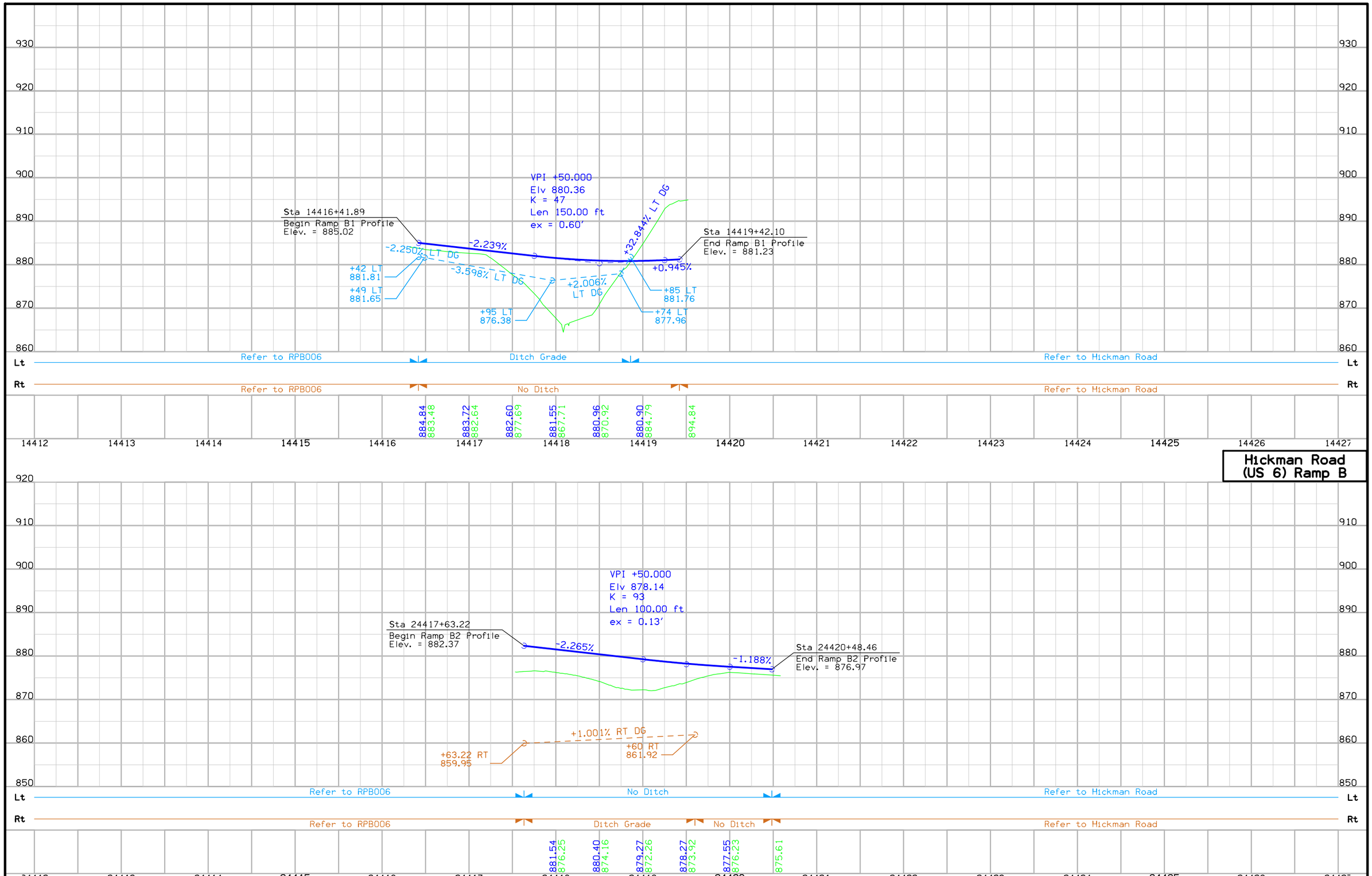
Hickman Road (US 6) Ramp B



4407	4408	4409	4410	4411	4412	4413	4414	4415	4416	4417	4418	4419	4420	4421	4422
Lt	861.12	861.09	873.20	883.52	884.57	893.38 / 884.89	893.75 / 884.84	893.96 / 884.86	894.01 / 885.47	893.89 / 885.90	893.62 / 885.97	893.18 / 885.72	892.58 / 885.27	891.82 / 884.16	890.90 / 882.34	889.82 / 880.35	888.69 / 879.65	887.56 / 879.29	886.42 / 879.27	885.29 / 878.89	884.16 / 879.26	883.03 / 879.39	878.85	878.56	878.17	878.25	
Rt																											

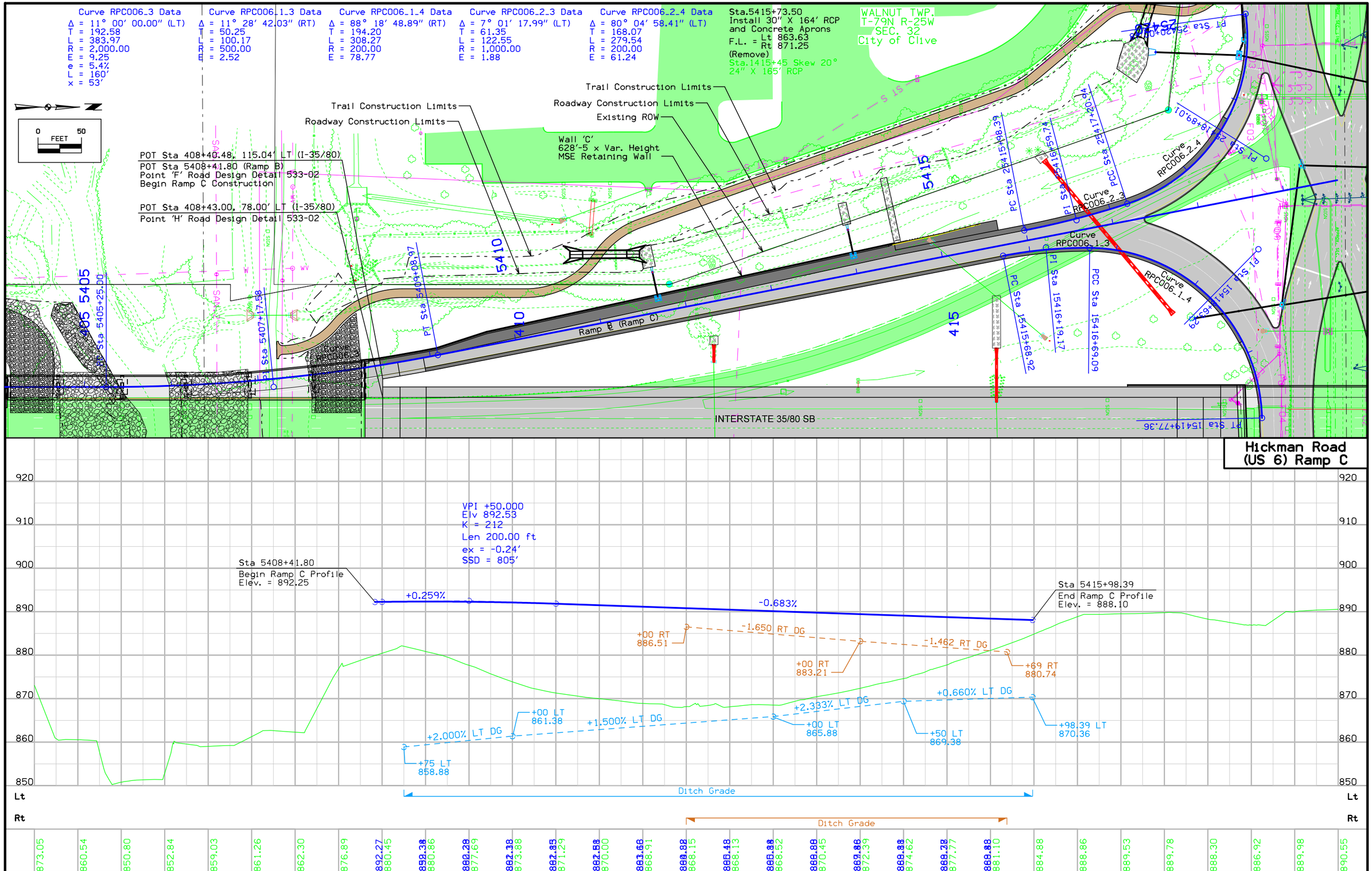
FILE NO.	ENGLISH	DESIGN TEAM	SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER	IM-080-4(069)125--13-77	SHEET NUMBER	K.9

2:11:40 PM 11/3/2022 ncarhoff pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\7708006015\Design_(069)_PrelimDesign\CADD_Files\Sheet_Files\SHT_77080069Z08_K09.dgn



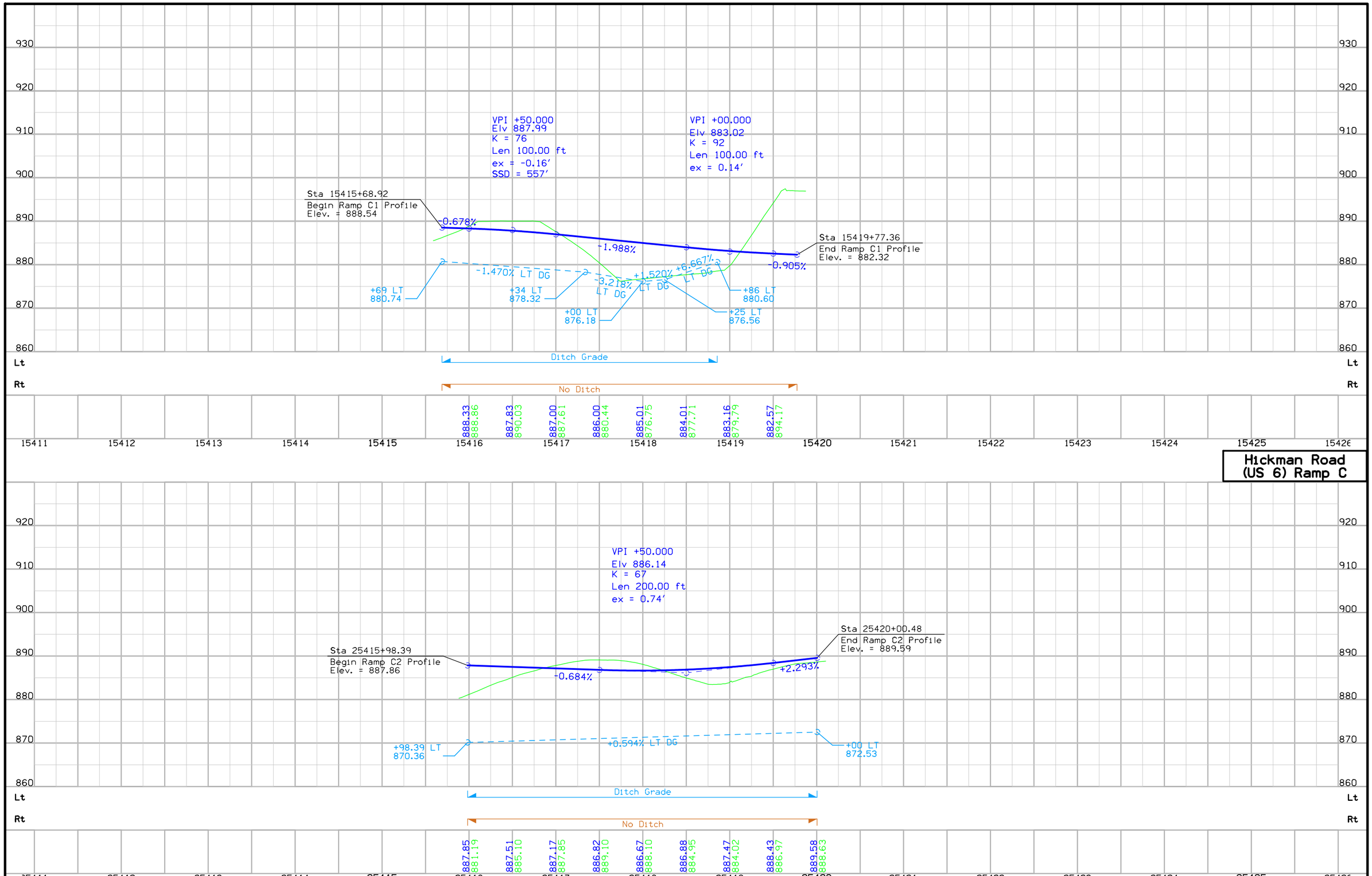
FILE NO.	ENGLISH	DESIGN TEAM	SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER	IM-080-4(069)125--13-77	SHEET NUMBER	K.10

2:15:28 PM 7/1/2022 ncarhoff pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\7708006015\Design_(069)_PrelimDesign\CADD_Files\Sheet_Files\SHT_77080069Z08_K10.dgn



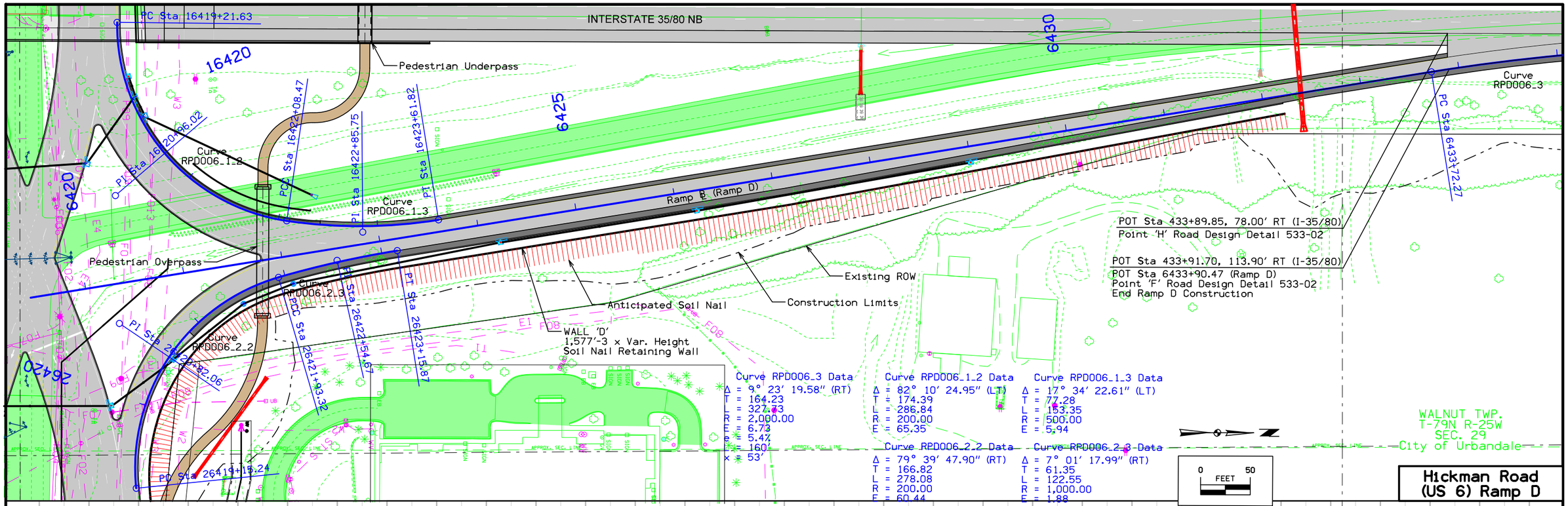
FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER K.11

2:18:59 PM 11/3/2022 ncarhoff pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\7708006015\Design_(069)_PrelimDesign\CADD_Files\Sheet_Files\SHT_77080069Z08_K11.dgn



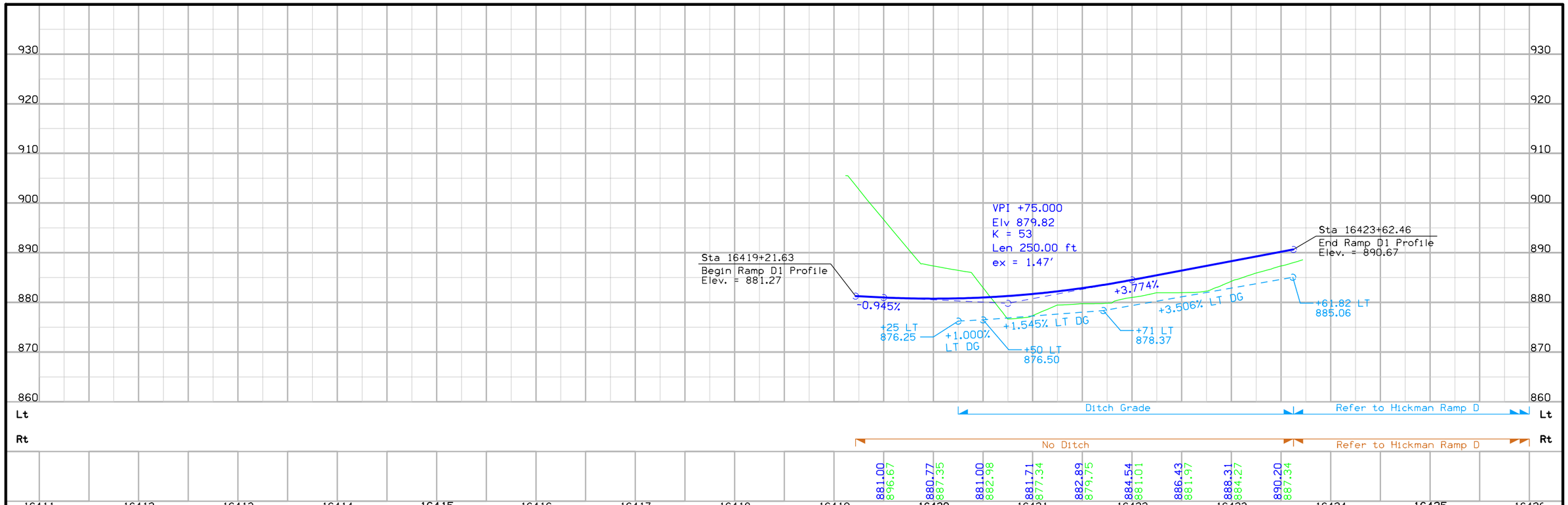
FILE NO.	ENGLISH	DESIGN TEAM	SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER	IM-080-4(069)125--13-77	SHEET NUMBER	K.12

2:15:46 PM 7/1/2022 ncarhoff pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\7708006015\Design_(069)_PrelimDesign\CADD_Files\Sheet_Files\SHT_77080069Z08_K12.dgn

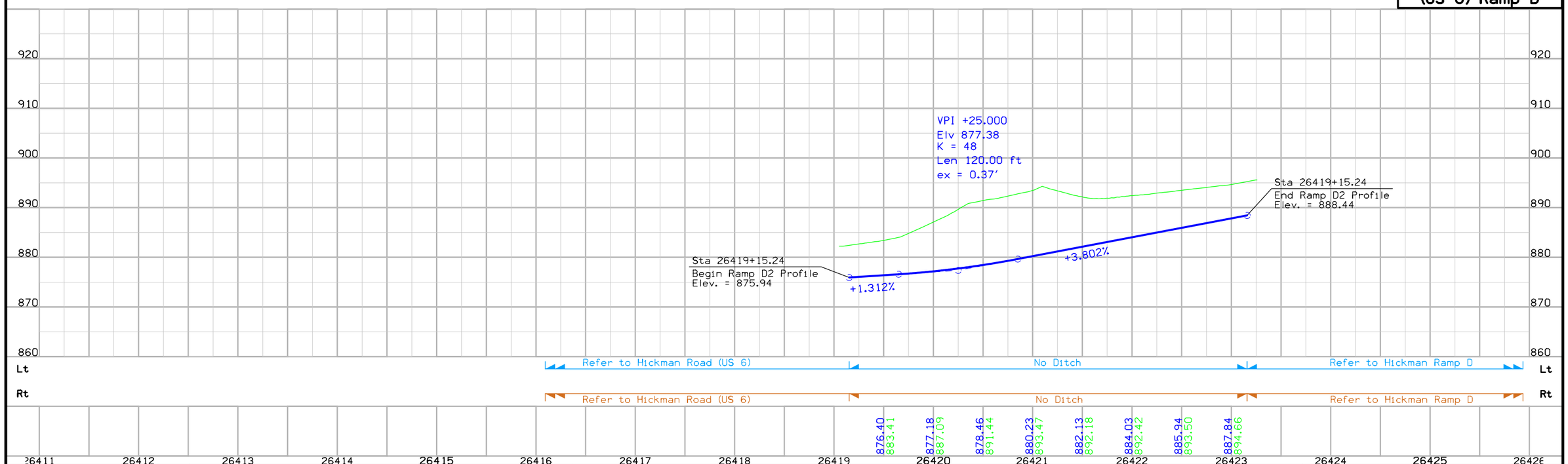


FILE NO.	ENGLISH	DESIGN TEAM	SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER	IM-080-4(069)125--13-77	SHEET NUMBER	K.13

2:20:01 PM 11/3/2022 ncarhoff pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\7708006015\Design_(069)_PrelimDesign\CADD_Files\Sheet_Files\SHT_77080069Z08_K13.dgn



Hickman Road
(US 6) Ramp D



FILE NO.	ENGLISH	DESIGN TEAM	SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER	IM-080-4(069)125--13-77	SHEET NUMBER	K.14

2:16:00 PM 7/1/2022 ncarhoff pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\7708006015\Design_(069)_PrelimDesign\CADD_Files\Sheet_Files\SHT_77080069Z08_K14.dgn

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

Curve RPCDOUG_3 Data
Δ = 9° 23′ 19.62″ (LT)
T = 164.23
L = 327.73
R = 2,000.00
E = 6.73
e = 5.4%
Ŀ = 168′
x = 62′

Curve RPCDOUG_6 Data
Δ = 10° 29′ 42.73″ (LT)
T = 183.69
L = 366.35
R = 2,000.00
E = 8.42
e = 5.4%
L = 168′
x = 62′

Curve RPEDOUG_5 Data
Δ = 0° 02′ 16.01″ (RT)
T = 80.04
L = 160.08
R = 242,753.81
E = 0.01

Curve RPEDOUG_6 Data
Δ = 7° 26′ 54.42″ (LT)
T = 260.37
L = 520.00
R = 4,000.00
E = 8.46

Curve RPEDOUG_7 Data
Δ = 162° 43′ 46.68″ (LT)
T = 948.22
L = 408.98
R = 144.00
E = 815.09
e = 6.0%
Ŀ = 128′
x = 43′

Curve RPEDOUG_10 Data
Δ = 97° 47′ 21.20″ (LT)
T = 187.96
L = 279.91
R = 164.00
E = 85.45
e = 6.0%
Ŀ = 128′
x = 43′

WALNUT TWP.
T-79N R-25W
SEC. 20
City of Urbandale

POT Sta 9482+60.47 (Ramp E)
End Ramp E Construction

POT Sta 475+97.85, 118.51′ LT (I-35/80)
POT Sta 9475+99.12 (Ramp E)
Point 'F' Standard Road Plans PV-414
Begin Ramp E Construction

POT Sta 476+00.00, 78.00′ RT (I-35/80)
Point 'H' Standard Road Plans PV-414

POT Sta 471+25.00, 90.00′ LT (I-35/80)
POT Sta 9471+25.00 (Ramp E)
Point 'E' Standard Road Plans PV-414

POT Sta 459+07.69, 113.81′ LT (I-35/80)
POT Sta 8459+08.92 (Ramp C)
Point 'F' Road Design Detail 533-02
Begin Ramp C Construction

POT Sta 459+10.15, 78.00′ LT (I-35/80)
Point 'F' Road Design Detail 533-02

POT Sta 456+00.00, 90.00′ LT (I-35/80)
POT Sta 8456+00.00 (Ramp C)
Point 'E' Road Design Detail 533-02

POT Sta 452+19.93

POT Sta 8466+89.46 (Ramp C)
End Ramp C Construction

PC Sta 9482+22.07
PT Sta 9480+53.98
PI Sta 9484+10.03
PC Sta 8456+00.00
PI Sta 8457+64.23
PT Sta 8459+27.73
PC Sta 8463+18.11
PI Sta 8465+01.80
PT Sta 8466+84.46
PC Sta 9469+64.92
PI Sta 9470+44.96
PRC Sta 9471+25.00
PT Sta 9485+01.98
PI Sta 9473+85.36
PCC Sta 9476+45.00

Douglas Avenue Ramp A
Douglas Avenue Ramp C
Douglas Avenue Ramp E
Douglas Avenue

9°44′20″
9°23′20″
28°37′48″
5°43′5″
3°48′51″

INTERSTATE 35/80 SB
INTERSTATE 35/80 NB

POT Sta 457+81.63

POT Sta 451+25.00, 90.00′ RT (I-35/80)
POT Sta 7451+25.27 (Ramp B)
Point 'P' Standard Road Plans PV-410

PI Sta 10475+41.35

POT Sta 457+25.00, 78.00′ RT (I-35/80)
Point 'C' Standard Road Plans PV-410

POT Sta 457+23.40, 129.89′ RT (I-35/80)
POT Sta 7457+25.00 (Ramp B)
Point 'M' Standard Road Plans PV-410
Begin Ramp B Construction

PC Sta 7457+68.31
PT Sta 7460+63.13
Sta 7463+48.69 (Ramp B)
End Ramp B Construction
PT Sta 7463+48.69

Douglas Avenue Ramp B

PI Sta 10469+65.37
PC Sta 10472+25.00
PCC Sta 10467+05.00
PC Sta 10457+30.91
PC Sta 10462+85.49
PT Sta 10459+82.52
PI Sta 10458+89.02

Douglas Avenue Ramp F
Douglas Avenue Ramp D

POT Sta 472+25.00, 90.00′ RT (I-35/80)
POT Sta 10472+25.00 (Ramp F)
Point 'G' Standard Road Plans PV-414

POT Sta 467+50.00, 78.00′ RT (I-35/80)
Point 'H' Standard Road Plans PV-414

POT Sta 467+52.10, 117.58′ RT (I-35/80)
POT Sta 10467+51.17 (Ramp F)
Point 'F' Standard Road Plans PV-414
End Ramp F Construction

POT Sta 10459+44.12 (Ramp F)
Begin Ramp F Construction

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

Curve RPBDOUG_3 Data
Δ = 24° 48′ 57.31″ (RT)
T = 294.81
L = 580.38
R = 1,340.00
E = 32.05
e = 6.0%
Ŀ = 240′
x = 80′

0 100
FEET

Curve RPFDOUG_1 Data
Δ = 87° 54′ 18.36″ (RT)
T = 158.11
L = 251.61
R = 164.00
E = 63.80
e = 6.0%
L = 128′
x = 43′

Curve RPFDOUG_4 Data
Δ = 166° 55′ 04.00″ (RT)
T = 1,255.86
L = 419.51
R = 144.00
E = 1,120.09
e = 6.0%
Ŀ = 128′
x = 43′

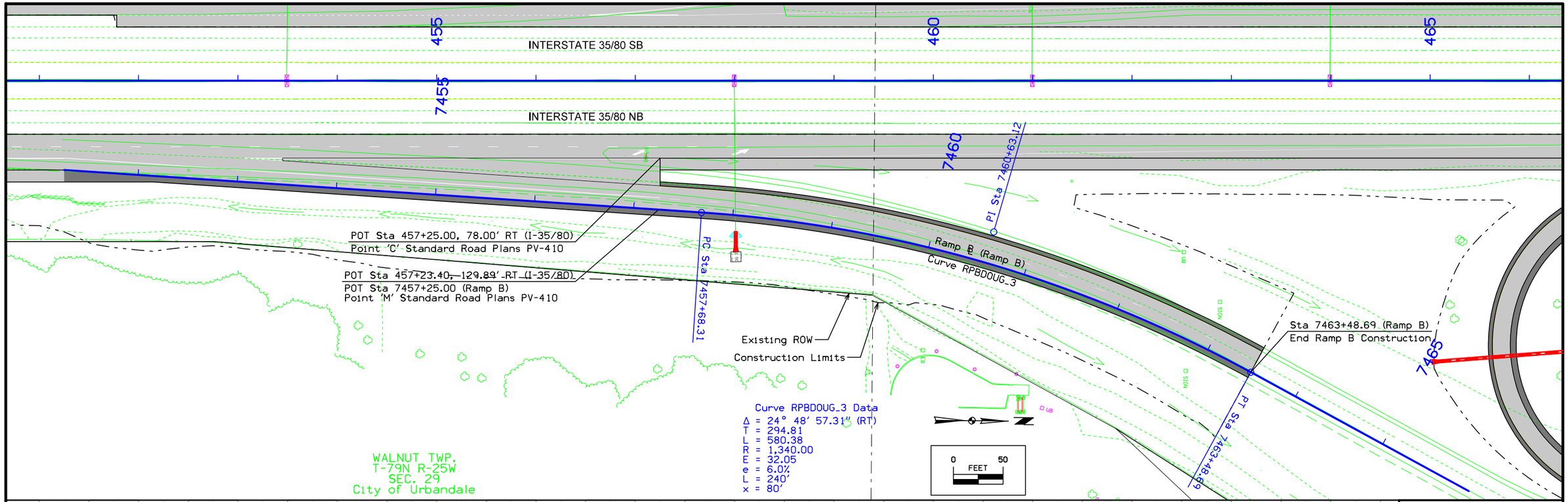
Curve RPFDOUG_5 Data
Δ = 7° 26′ 54.42″ (RT)
T = 260.37
L = 520.00
R = 4,000.00
E = 8.46

WALNUT TWP.
T-79N R-25W
SEC. 21
City of Urbandale

Geometric Plan
Proposed Interchange of
Interstate 35/80 with
Douglas Avenue
Polk County

FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER K.15

2:16:08 PM 7/1/2022 ncarhoff pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\7708006015\Design_(069)_PrelimDesign\CADD_Files\Sheet_Files\SHT_7708006908_K15.dgn



FILE NO.	ENGLISH	DESIGN TEAM	SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER	IM-080-4(069)125--13-77	SHEET NUMBER	K.16

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Curve RPCDOUG_3 Data
Δ = 9° 23′ 19.62″ (LT)
T = 164.23
L = 327.73
R = 2,000.00
E = 6.73
e = 5.4%
L s = 168′
x = 62′

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

Sta 8463+55.87
24″ X 72′ RCP
(Remove FES Lt and
Remove FES and 6′ RCP Rt)
Sta 8463+55.87
Install 24″ X 12′ RCP
Extension and Reinstall
Concrete FES
F.L. = Lt 972.10
Rt 923.03

Curve RPCDOUG_6 Data
Δ = 10° 29′ 42.73″ (LT)
T = 183.69
L = 366.35
R = 2,000.00
E = 8.42
e = 5.4%
L s = 168′
x = 62′

Construction Limits
Existing ROW

POT Sta 8459+08.92 (Ramp C)
POT Sta 459+07.69, 113.81′ LT (I-35/80)
Point 'F' Road Design Detail 533-02
Begin Ramp C Construction

POT Sta 459+10.15, 78.00′ LT (I-35/80)
Point 'H' Road Design Detail 533-02

POT Sta 8466+89.46 (Ramp C)
End Ramp C Construction

8455
8460
8465

PC Sta 8456+00.00
PT Sta 8459+27.73
PC Sta 8463+18.11
PT Sta 8466+84.46
PI Sta 8457+64.23
PI Sta 8465+01.80

Curve RPCDOUG_3
Curve RPCDOUG_6
Ramp B (Ramp C)

INTERSTATE 35/80 SB
INTERSTATE 35/80 NB

0 FEET 50

Douglas Avenue Ramp C

VPI +00.000
Elv 976.53
K = 405
Len 180.00 ft
ex = -0.10′
SSD = 1583′

VPI +75.000
Elv 979.59
K = 136
Len 200.00 ft
ex = 0.37′

Sta 8459+08.92
Begin Ramp C Profile
Elev. = 975.64

Sta 8466+89.46
End Ramp C Profile
Elev. = 981.88

+0.977%
+0.532%
+2.001%
+0.354% LT DG
+1.067% LT DG
+2.302% RT DG

+04 LT
970.50
+95 RT
973.90
+56 LT
972.10
+86 RT
980.60
+86 LT
975.62

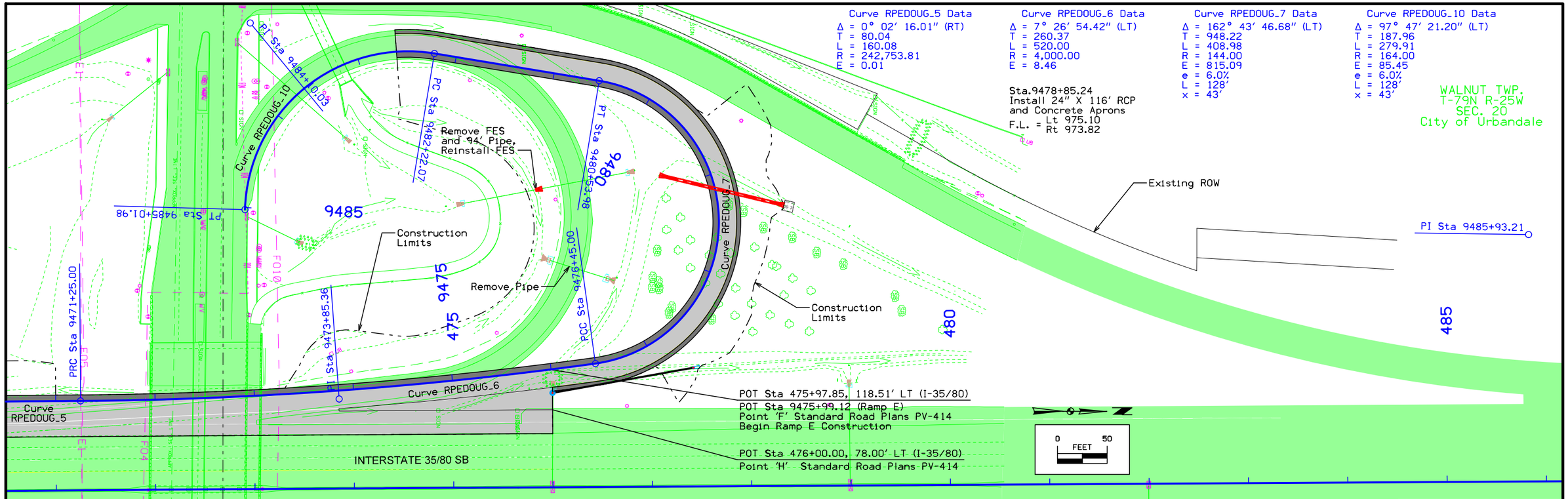
1,010
1,000
990
980
970
960
950
940

Lt — Refer to Mainline — Ditch Grade — U.A.C. — Lt
Rt — No Ditch — Ditch Grade — U.A.C. — Rt

8454	8455	8456	8457	8458	8459	8460	8461	8462	8463	8464	8465	8466	8467	8468
	968.15	969.29	970.56	971.64	972.67	973.73	974.83	974.80	975.18	976.02 975.14	976.43 975.01	976.78 975.22	977.06 975.44	977.33 975.57	977.59 975.98	977.86 976.55	978.13 977.15	978.39 977.66	978.66 978.02	978.92 978.43	979.21 978.94	979.66 979.47	980.30 980.24	981.11 981.10	982.13	983.37	

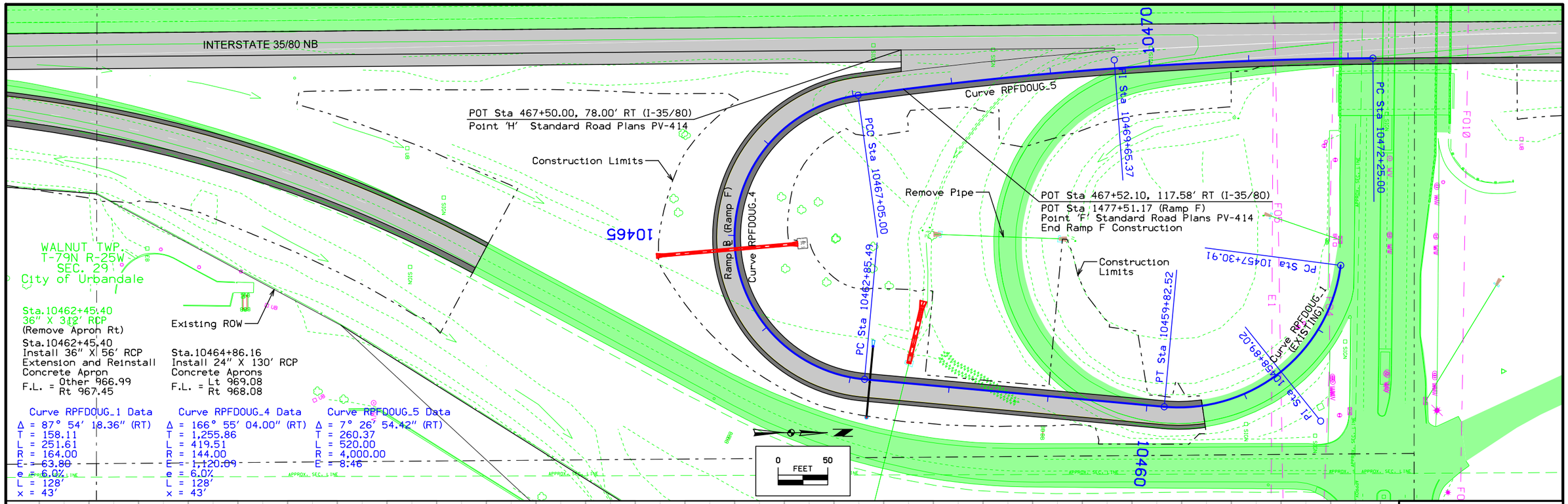
FILE NO.	ENGLISH	DESIGN TEAM	SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER	IM-080-4(069)125--13-77	SHEET NUMBER	K.17

2:29:41 PM 11/3/2022 ncarhoff pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\7708006015\Design_(069)_PrelimDesign\CADD_Files\Sheet_Files\SHT_77080069Z08_K17.dgn



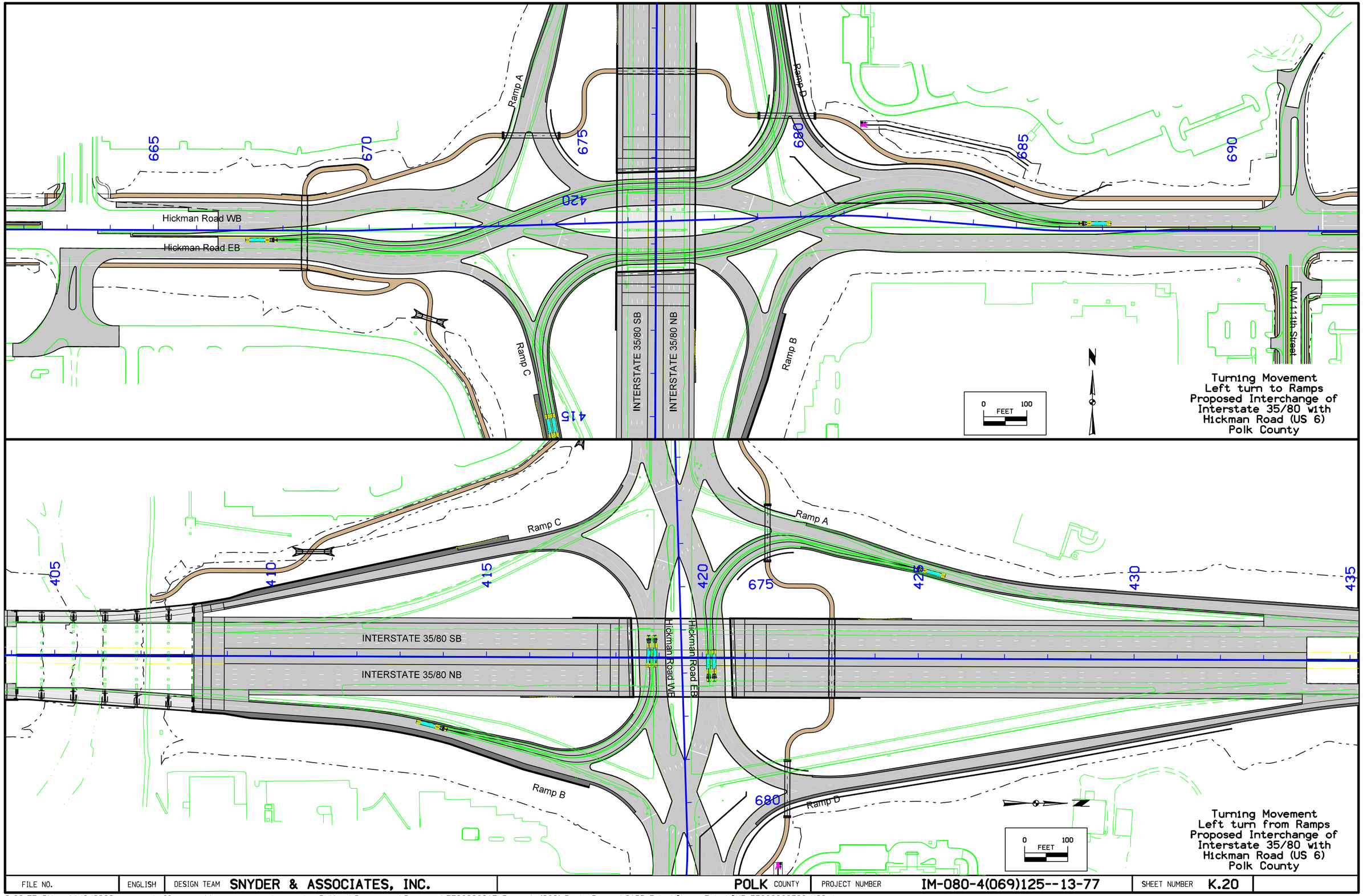
FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER K.18

2:16:34 PM 7/1/2022 ncarhoff pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\7708006015\Design_(069)_PrelimDesign\CADD_Files\Sheet_Files\SHT_77080069Z08_K18.dgn



FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER K.19

2:16:42 PM 7/1/2022 ncarhoff pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\7708006015\Design_(069)_PrelimDesign\CADD_Files\Sheet_Files\SHT_77080069Z08_K19.dgn



FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER K.20

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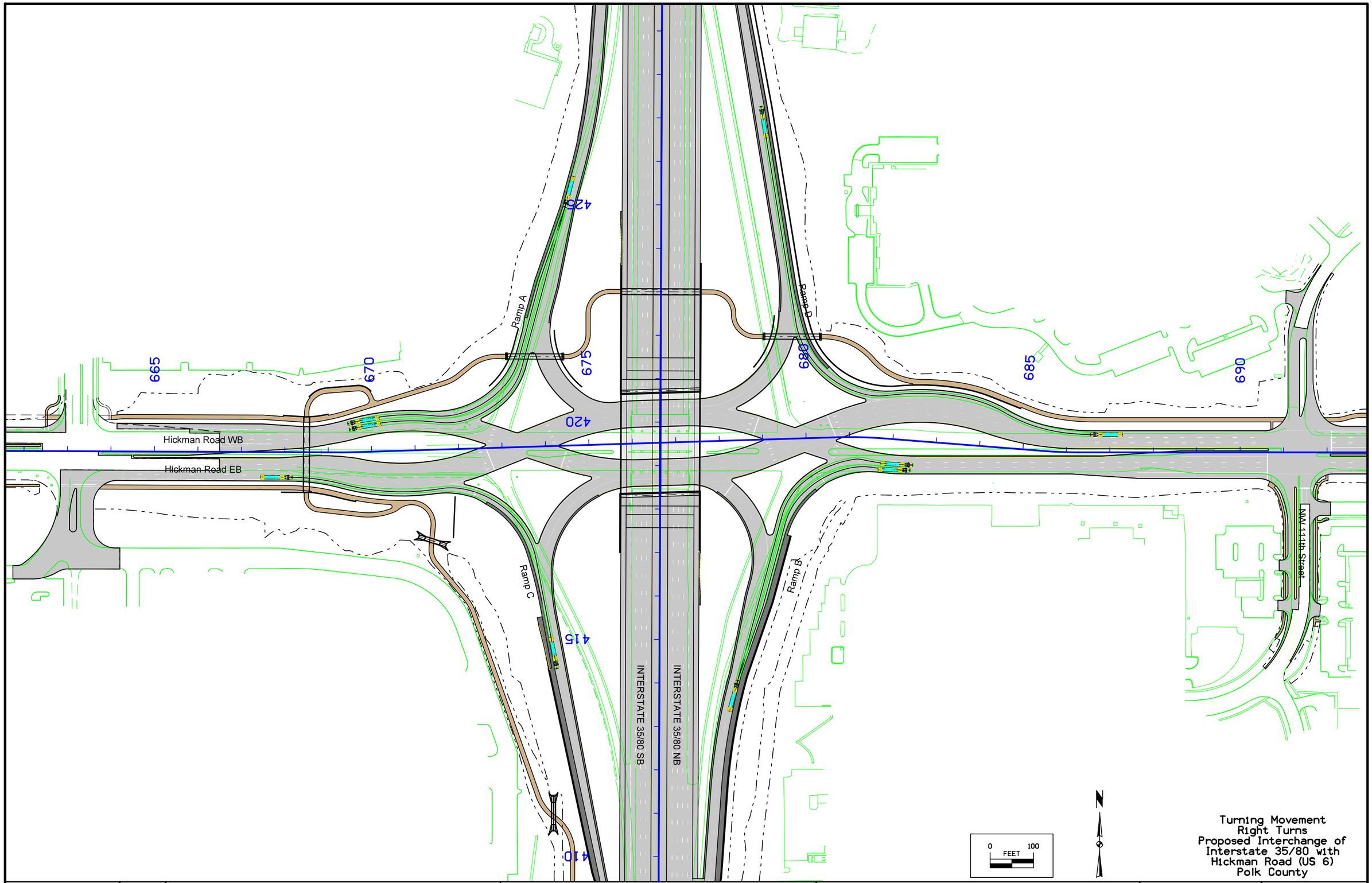

FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER K.21

2:16:57 PM 7/1/2022 ncarhoff pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\7708006015\Design_(069)_PrelimDesign\CADD_Files\Sheet_Files\SHT_77080069Z08_K21.dgn

STORM SEWER

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

INTAKES AND UTILITY ACCESSES

No.	Location Station and Offset	*Type or Standard Road Plan	Form Grade Elev.	Bottom Well Elev.	Ext Length** FT	Notes
3	658+63.24, 53.6' LT	SW-507	923.21			
4	658+63.25, 61.4' RT	SW-507	923.22	919.22		
5	661+90.40, 55.0' LT	SW-507	915.22	907.95		
5A	661+87.74, 45.1' LT	SW-401	915.55	908.04		
7	667+30.00, 65.0' LT	SW-507	900.77	896.80		
8	666+86.00, 67.0' RT	SW-507	901.91	895.50		
9	23419+66.40, 3.0' LT	SW-507	888.00	883.00		RampA006_2
9A	23420+14.30, 59.5' LT	DR-201				RampA006_2
9B	23419+56.30, 20.0' LT	SW-403	888.95	879.30		RampA006_2
10	25419+70.80, 3.0' LT	SW-507	888.82	884.32		RampC006_2
10A	25419+51.75, 8.6' LT	SW-404	889.00	872.35		8' x 4'
10B	25419+54.00, 70.8' LT	DR-201				RampC006_2
11	1673+20.08, 31.0' LT	SW-507	886.69	881.67		SR006_WB
12	2673+18.30, 31.0' RT	SW-507	886.72	880.79		SR006_EB
13	2674+89.70, 31.0' LT	SW-507	884.30	879.30		SR006_EB
13A	13420+93.50, 24.3' RT	DR-201				RampA006_1
14	1674+76.42, 17.0' RT	SW-507	884.34	877.52		SR006_WB
14A	15418+25.00, 34.5' RT	DR-201				RampC006_1
15	16420+00.00, 3.0' LT	SW-507	880.67	875.11		RampD006_1
15A	16420+25.00, 25.6' LT	DR-201				RampD006_1
16	14418+80.50, 3.0' LT	SW-507	880.77	875.11		RampB006_1
17	2679+01.28, 17.0' LT	SW-507	881.23	872.80		SR006_EB
18	1678+99.25, 31.0' RT	SW-507	879.84	871.20		SR006_WB
18A	1679+00.00, 78.2' RT	SW-401		865.83		SR006_WB
18D	14417+95.50, 26.7' LT	DR-201				RampB006_1
18F	24418+52.00, 64.8' RT	DR-201				RampB006_2
19	1681+71.00, 31.0' LT	SW-507	877.28	871.63		SR006_WB
19A	26420+55.00, 3.8' RT	SW-507	878.50	873.90		RampD006_2
19B	6424+49.00, 19.0' RT	SW-507	893.14	887.54		RampD006
19C	6427+87.00, 17.3' RT	SW-507	906.03	901.50		RampD006
19D	26420+53.60, 43.2' RT	SW-512	892.78	885.50		RampD006_2
20	2680+81.00, 31.0' RT	SW-507	878.22	872.55		SR006_EB
20A	24420+02.50, 9.0' RT	SW-401	878.05	864.83		RampB006_2
20B	24420+02.50, 41.8' RT	DR-201				RampB006_2
21	1684+11.57, 44.8' LT	SW-509	874.75	867.75		SR006_WB
21A	1683+24.29, 98.9' LT	SW-401	894.10	891.10		SR006_WB
21B	1684+03.70, 87.0' LT	SW-401	889.00	874.50		SR006_WB
22	2684+06.47, 27.0' RT	SW-509	875.41	864.60		SR006_EB
22A	2684+06.47, 57.0' RT	DR-201				
23	687+67.50, 50.0' LT	SW-507	881.68	876.50		
24	687+67.50, 60.0' RT	SW-507	881.38	871.27		
24A	687+67.50, 86.1' RT	DR-201				
25	1693+00.00, 29.3' RT	SW-507	888.53			SR111
26	1693+00.00, 29.0' LT	SW-507	888.54			SR111
26A	1693+00.00,	DR-201				SR111
27	697+05.00, 47.4' LT	SW-507	886.50	881.70		SR006
28	697+05.00, 56.9' RT	SW-507	886.50	880.25		SR006
28A	697+05.00, 84.6' RT	DR-201				SR006
29	5414+00.00, 22.7' LT	SW-549	888.59	869.74		Special design
29A	5414+00.00, 34.3' LT	DR-201				RampC006
30	5411+00.00, 16.0' LT	SW-549	890.84	885.89		RampC006
31	403+30.00, 101.8' RT	SW-549	888.71	884.20		
32	402+04.00, 101.8' RT	SW-549	888.27	877.25		
32A	402+04.00, 113.5' RT	DR-201				
33	400+29.00, 101.8' RT	SW-549	890.08	885.55		
34	24417+75.00, 13.5' RT	SW-507	881.56	865.08		Special Design
34A	24417+75.00, 76.5' RT	DR-201				
35	4414+90.00, 16.1' RT	SW-549	888.24	869.74		RampB006
35A	4414+90.00, 27.7' RT	DR-201				
36	4412+12.00, 11.8' RT	SW-549	892.99	877.64		RampB006
36A	4412+12.00, 23.4' RT	DR-201				
37		DR-201				SR111
38	1690+54.84, 30.4' RT	SW-507				SR111
39	1690+55.64, 51.6' LT	SW-507				SR111
40		DR-201				SR111

PIPES

Design Length, Slope, and Flowlines are calculated from center to center of structures.

Line Number	Intake/ Utility Access No. From	To	Class 'D'	① Pipe Size IN	Bid* Length FT	Design Length FT	Slope %	Connected Pipe Joint (DR-121) Type	Flow Lines Inlet Elevation	Outlet Elevation	Other Elevation	Pipe Profile Sheet No.	Notes
4A	4	EX	2000	15	19.0	19.0	1.00		919.73		919.54		C-1 Connector
4B	EX	3	2000	15	8.0	8.0	1.00			918.64	918.72		C-1 Connector
3	3	5	2000	18	327.0	327.0	2.81		918.44	909.25			
7	7	RCB	2000	18	26.0	26.0	1.00		896.77	896.51			
8	8	RCB	2000	18	28.0	28.0	1.07		896.00	895.70			
9	9	9B	2000	18	18.0	18.0	1.39		883.50	883.25			
9A	9A	9B	2000	66	52.0	60.3	1.00		880.50	879.90			
9B	9B	10A	2000	66	224.0	224.0	2.00		879.80	875.32			
10	10	10A	2000	18	19.0	19.0	1.00		884.82	884.63			
10A	10A	10B	2000	66	54.0	62.3	1.00		872.43	871.81			
11	11	12	2000	18	78.0	78.0	1.00		882.17	881.39			
12	12	14	2000	18	138.0	138.0	1.66		881.29	879.00			
13	13	14	2000	24	138.0	138.0	1.00		879.80	878.42			
13A	13A	13	2000	18	93.0	99.1	1.45		881.64	880.20			
14	14	14A	2000	30	112.0	118.1	1.46		878.02	876.56			
15A	15A	15	2000	24	27.0	33.1	1.63		876.25	875.71			
15	15	17	2000	24	82.0	82.0	1.22		875.61	874.61			
16	16	18	2000	15	110.0	110.0	0.91		875.61	874.61			
17	17	18	2000	24	132.0	132.0	1.14		873.30	871.80			
18	18	18A	2000	24	46.0	46.0	1.00		871.70	871.24			
18D	18D	18A	2000	18	100.0	106.1	3.19		876.38	873.00			
18A	18A	18F	2000	30	145.0	151.2	1.50		866.27	864.00			
19C	19C	19B	2000	18	338.0	338.0	4.59		902.00	888.14			
19B	19B	19A	2000	18	378.0	378.0	3.58		888.04	874.50			
19D	19D	19A	2000	15	39.0	39.0	26.90		886.00	875.50			
19A	19A	19	2000	18	80.0	80.0	1.00		874.40	873.60			
19	19	20A	2000	36	164.0	164.0	1.05		872.13	870.40			
20	20	20A	2000	18	96.0	96.0	1.00		873.05	871.80			
20A	20A	20B	2000	48	25.0	33.0	1.00		865.33	865.00			
21A	21A	21B	1500	15	94.0	94.0	7.02		891.60	885.00			
21B	21B	21	2000	15	43.0	43.0	8.60		875.00	871.30			
21	21	22	2000	42	183.0	183.0	1.00		868.25	866.42			
22	22	22A	2000	42	22.0	30.0	2.00		865.10	864.50			
23	23	24	2000	18	110.0	110.0	1.09		877.00	875.80			
24	24	24A	2000	18	20.0	26.1	2.00		871.77	871.25			
25	25	26	2000	18	59.0	59.0							
26	26	26A	2000	18						887.00			
27	27	28	2000	18	105.0	105.0	1.00		882.20	881.15			
28	28	28A	2000	24	21.0	27.1	2.03		880.75	880.20			
30	30	29	2000	18	300.0	300.0	0.87		886.39	883.78			
29	29	29A	2000	18	6.0	12.1	2.00		870.24	870.00			
31	31	32	2000	18	126.0	126.0	1.00		884.70	883.44			
33	33	32	2000	18	175.0	175.0	1.00		886.05	884.30			
32	EX	32	2000	24	30.0	30.0	2.00		879.59	878.99			C-1 connector
32A	32	32A	2000	30	6.0	12.1	2.00		877.75	877.50			
34	34	34A	2000	18	57.0	63.1	2.50		865.58	864.00			
35	35	35A	2000	18	6.0	12.1	2.00		870.24	870.00			
36	36	36A	2000	18	6.0	12.1	2.00		878.14	877.90			
37	37	38	2000										
38	38	39	2000		82.0	82.0							
39	39	40	2000										

STORM SEWER

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

INTAKES AND UTILITY ACCESSES

No.	Location Station and Offset	*Type or Standard Road Plan	Form Grade Elev.	Bottom Well Elev.	Ext. Length** FT	Notes
40		DR-201				SR111
41	3429+61.60, 38.4' LT	DR-201				RampA006, 2 FES
42	3428+04.00, 13.1' LT	SPECIAL				
43	3426+41.41, 38.1' LT	DR-201				RampA006, 2 FES
51	380+00.00, 103.6' LT	SW-401	926.10	926.76		48" DIA
52	379+25.00, 128.0' LT	FES				
53	476+00.00, 95.0' LT	SW-401	980.10	975.45		48" DIA
54	477+48.00, 120.5' LT	FES				
55	10462+80.00, 38.0' LT	SW-512	985.22	979.72		24" DIA
56	10462+80.00, 39.9' RT	FES				

PIPES

Design Length, Slope, and Flowlines are calculated from center to center of structures.

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) Type	Flow Lines: Inlet Elevation	Flow Lines: Outlet Elevation	Flow Lines: Other Elevation	Pipe Profile Sheet No.	Notes
41	41	42	2000	48	151.0	159.0	3.40		912.40	907.00			Twin pipes
42	42	43	2000	48	153.0	161.0	3.45		906.80	901.25			Twin pipes
51	51	52	2000	18	74.0	80.1	1.40		923.62	922.50			
53	53	54	2000	18	144.0	150.1	0.43		975.95	975.30			
55	55	56	2000	18	66.0	72.1	1.00		980.22	979.44			

SURVEY SYMBOLS

- CP Control Point
- FENO FENO Monument
- BM Bench Mark
- WC Wild Card (Misc. Field Shot)
- BL Topo Breakline
- GR Ground Shot
- CON Concrete or A/C Slab
- EW Edge of Water
- C Centerline BL of Road (ML or SR)
- BLS Bridge Low Steel
- TOP Top of Bridge Pier
- GU Gutter In Front of Curb
- CU Back of Curb
- EP Edge of Paved Roads (ML or SR)
- GDL Guard Rail Steel
- RET Retaining Walls
- PRO Profile Shot
- BRG Bridge
- BD Bridge Deck
- CUL Culvert
- PLG Location of General Photo
- MH Utility Access (Manhole)
- IN Storm Sewer Intake
- MIS Miscellaneous
- BLD Building or Foundation
- TDC Tree Deciduous
- SWK Sidewalk
- TLNL Tree Line Left
- LUM Luminaire
- PIP Pipe Culvert
- SNP Unpaved Shoulder
- WEL Well
- DU Centerline Draw or Stream (Up)
- PR Electic Riser Pole
- PPA Power Pole Co. 1
- TA Tower Anchor
- EG Edge of Gravel Road
- UV Underground Utility Vault
- TLNR Tree Line Right
- D Centerline Draw or Stream (Down)
- FW Wire Fence
- SI Sign
- RIP Rip-Rap
- WV Water Valve
- FHD Fire Hydrants
- TVP TV Pedestal
- EB Electrical Box
- SHR Shrub
- TSG Traffic Signal
- TCB Traffic Signal Box
- BB Billboard
- UB Utility Box
- STP Stump
- TEV Evergeen Tree
- GP Guard Post (Less Than 4 Posts)
- GV Gas Valve
- TFR Tree Fruit
- WH WHD Water Hydrant
- GPR Guard Post (4 or More Posts)
- WHU RV Water Hook Up
- FCL Chain Link and Security Fence
- Flg FLG Flag Poles
- TSL Traffic Signal and Luminare
- LIN Miscellaneous Line
- BNK Stream Bank
- SL Speed Limit Sign
- TPD Telephone Pedestal
- PCP Photo Control Point
- INB Storm Sewer Beehive Intake
- FWD Wood Fence
- UE Utility Elevation

- E1 – EL1D Electric Co. 1 - Quality D
- FO – FO1D Fiber Optic Co. 1 - Quality D
- FO2 – FO2D Fiber Optic Co. 2 - Quality D
- FO3 – FO3D Fiber Optic Co. 3 - Quality D
- FO4 – FO4D Fiber Optic Co. 4 - Quality D
- FO5 – FO5D Fiber Optic Co. 5 - Quality D
- FO6 – FO6D Fiber Optic Co. 6 - Quality D
- FO7 – FO7D Fiber Optic Co. 7 - Quality D
- FO8 – FO8D Fiber Optic Co. 8 - Quality D
- FO9 – FO9D Fiber Optic Co. 9 - Quality D
- FO10 – FO10D Fiber Optic Co. 10 - Quality D
- G – GL1D Gas Line Co. 1 - Quality D
- SAN. – SA1D Sanitary Sewer Co. 1 - Quality D
- SAN.2 – SA2D Sanitary Sewer Co. 2 - Quality D
- SAN.3 – SA3D Sanitary Sewer Co. 3 - Quality D
- ST S – ST1D Storm Sewer Co. 1 - Quality D
- TV – TV1D TV Cable Co. 1 - Quality D
- TV2 – TV2D TV Cable Co. 2 - Quality D
- W – WL1D Water Line Co.1 - Quality D
- W2 – WL2D Water Line Co.2 - Quality D
- W3 – WL3D Water Line Co.3 - Quality D

UTILITY LEGEND

Remark abbreviations
QLA – Quality Level A Highest guideline quality level
QLD – Quality Level D Lowest guideline quality level

- E1 – EL1D MidAmerican Energy Electric - Quality D
- E2 – EL2D Urbandale Traffic Electric - Quality D
- E3 – EL3D Clive Traffic Electric - Quality D
- E4 – EL4D Iowa Department of Transportation (IDOT) Electric - Quality D
- E5 – EL5D GPRS/No Name Electric - Quality D
- FO – FO1D Zayo Fiber Optic - Quality D
- FO2 – FO2D CenturyLink Fiber Optic - Quality D
- FO3 – FO3D MCI/Verizon Fiber Optic - Quality D
- FO4 – FO4D Iowa Communications Network (ICN) Fiber Optic - Quality D
- FO5 – FO5D Windstream Communications Fiber Optic - Quality D
- FO6 – FO6D Unite Private Network Fiber Optic - Quality D
- FO7 – FO7D Clive Traffic Fiber Optic - Quality D
- FO8 – FO8D Consolidated Communications Fiber Optic - Quality D
- FO9 – FO9D No Name (Unidentified) Fiber Optic - Quality D
- FO10 – FO10D Aureon Fiber Optic - Quality D
- FO11 – FO11D Mediacom Fiber Optic - Quality D
- FO12 – FO12D Next Level Fiber Optic - Quality D
- FO13 – FO13D Metronet Fiber Optic - Quality D
- G – GL1D MidAmerican Energy Gas Line - Quality D
- G2 – GL2D Unknown Gas Line - Quality D
- GHP – GH1D MidAmerican Energy Gas Line - Quality D
- PR MidAmerican Energy Riser Pole
- PPA Power Pole MidAmerican Energy
- SAN. – SA1D City of Clive Sanitary Sewer - Quality D
- SAN.2 – SA2D Des Moines Waste Water Sanitary Sewer - Quality D
- SAN.3 – SA3D City of Urbandale Sanitary Sewer - Quality D
- ST S – ST1D Storm Sewer Co. 1 - Quality D
- T1 – TL1D CenturyLink Telephone Line - Quality D
- T2 – TL2D Comm Data Link Telephone Line - Quality D
- TV – TV1D Mediacom TV Cable - Quality D
- TV2 – TV2D Proposed Route TDI Cable TV Cable - Quality D
- W – WL1D Clive Public Works Water Water Line - Quality D
- W2 – WL2D Urbandale Water Water Line - Quality D
- WL3D Des Moines Water Works Water Line - Quality D

PLAN VIEW COLOR LEGEND OF STORM SEWER SHEETS

LINEWORK	Design Color No.	
Gray, Dark	(112)	Existing Topographic Features, Utilities, and Labels
Black	(17)	Proposed Storm Sewer Details, Alignment, Stationing, Tic Marks, and Alignment Annotation
SHADING	Design Color No.	
Gray, Light	(48)	Proposed Pavement Shading

PROFILE VIEW COLOR LEGEND OF STORM SEWER SHEETS

LINEWORK	Design Color No.	
Gray, Dark	(112)	Existing Ground Line Profile and Existing Utilities Information
Black	(17)	Proposed Pipes and Intakes

PLAN VIEW LINE STYLE LEGEND OF STORM SEWER SHEETS

- Plug and Abandon Existing Pipe or Structure
- Removal of Existing Pipe or Structure
- Previously Constructed Pipe or Structure
- Direction of Pipe Flow

PROFILE VIEW LINE STYLE LEGEND OF STORM SEWER SHEETS

- Existing Ground
- Proposed Ground
- Previously Constructed Pipe or Structure
- Proposed Pipe or Structure

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-080-4(069)125--13-77	SHEET NUMBER M.3

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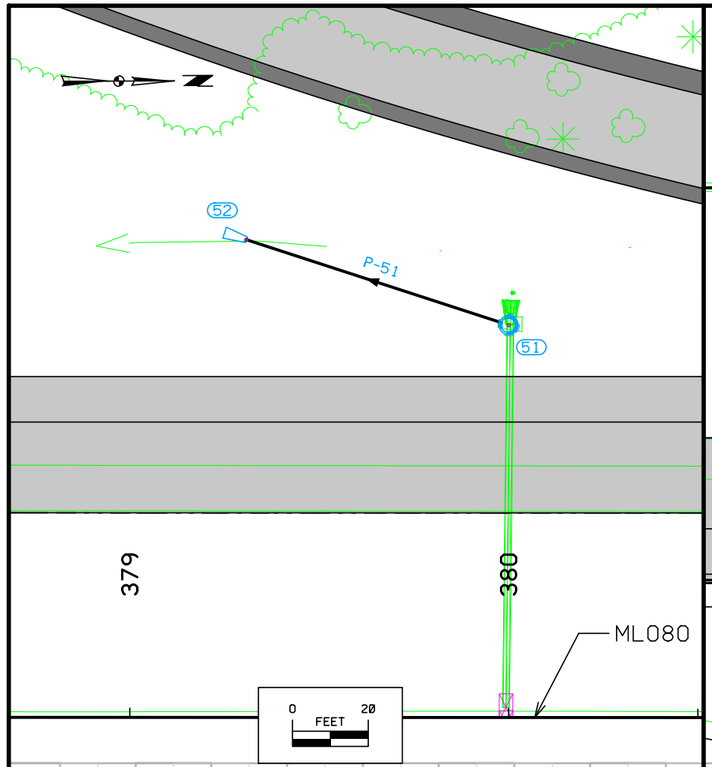

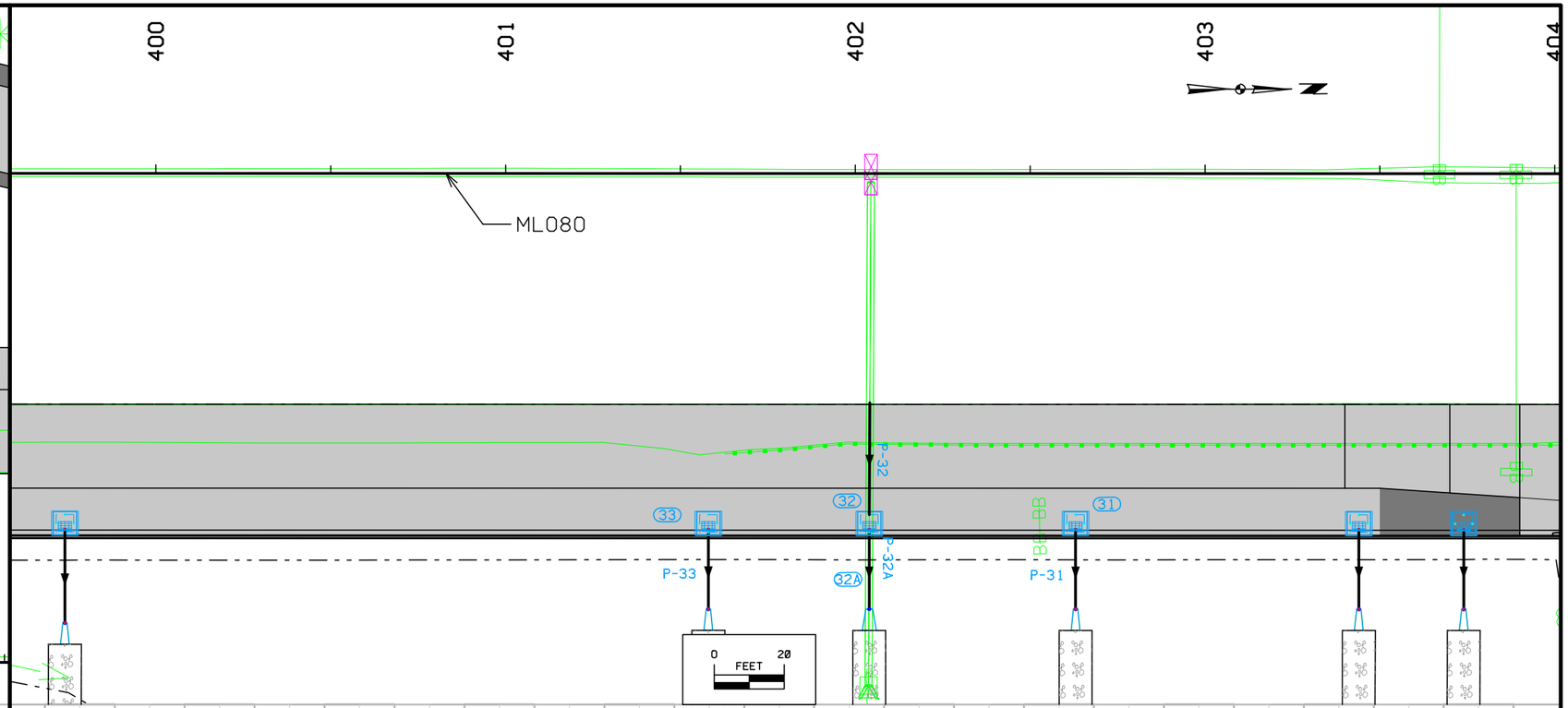

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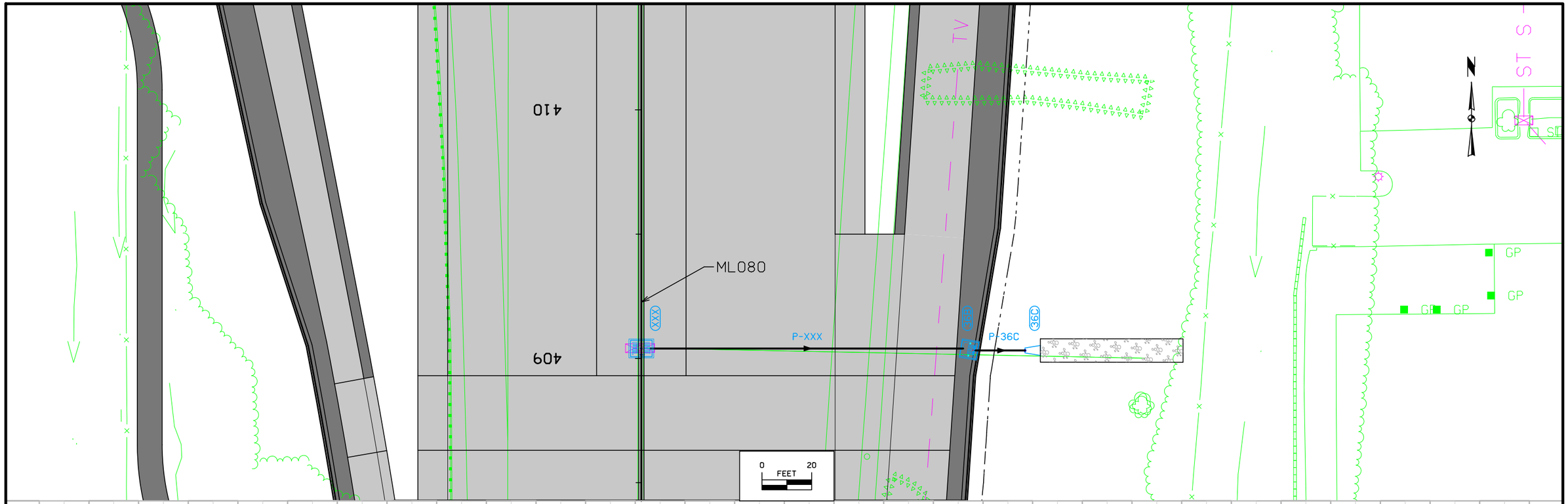

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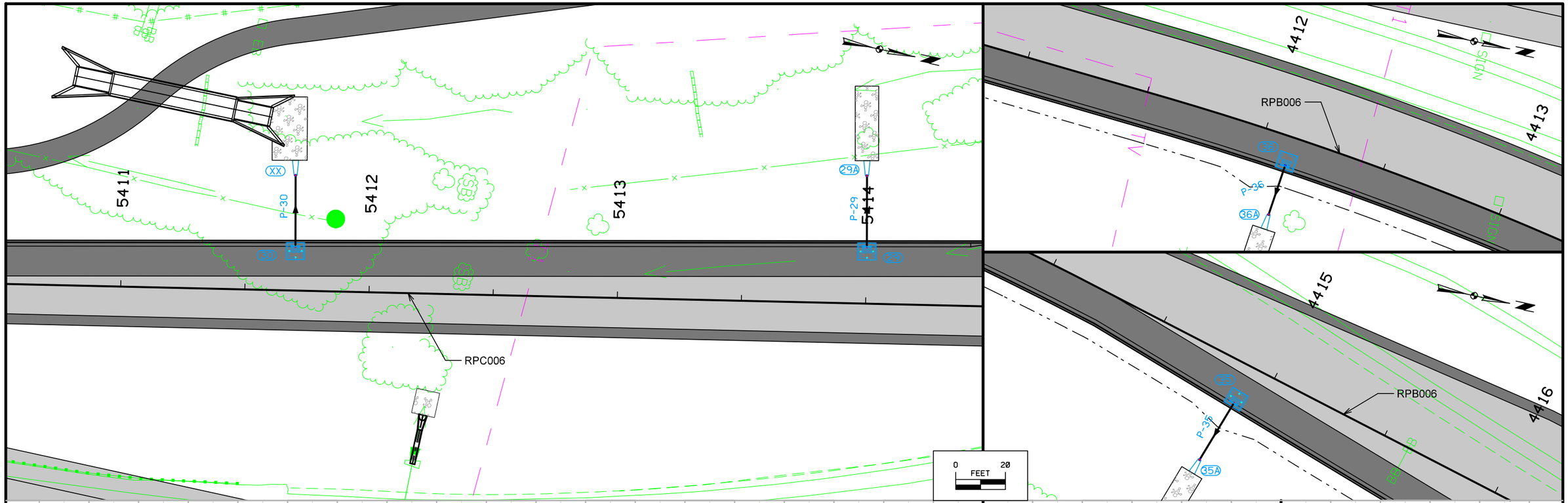

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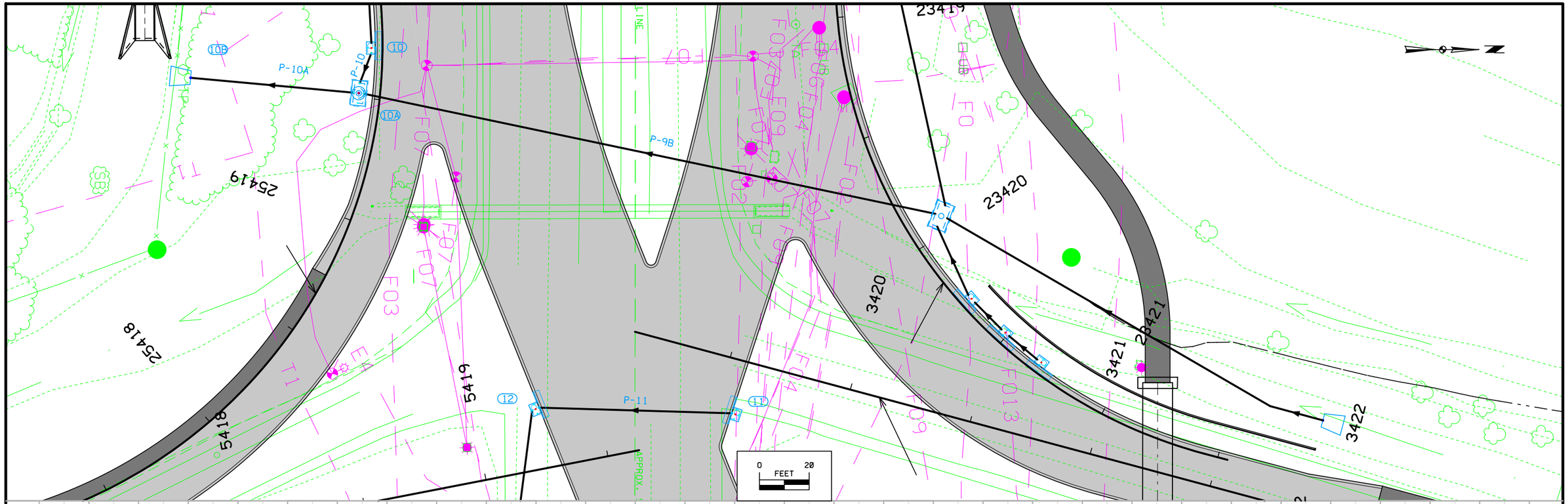

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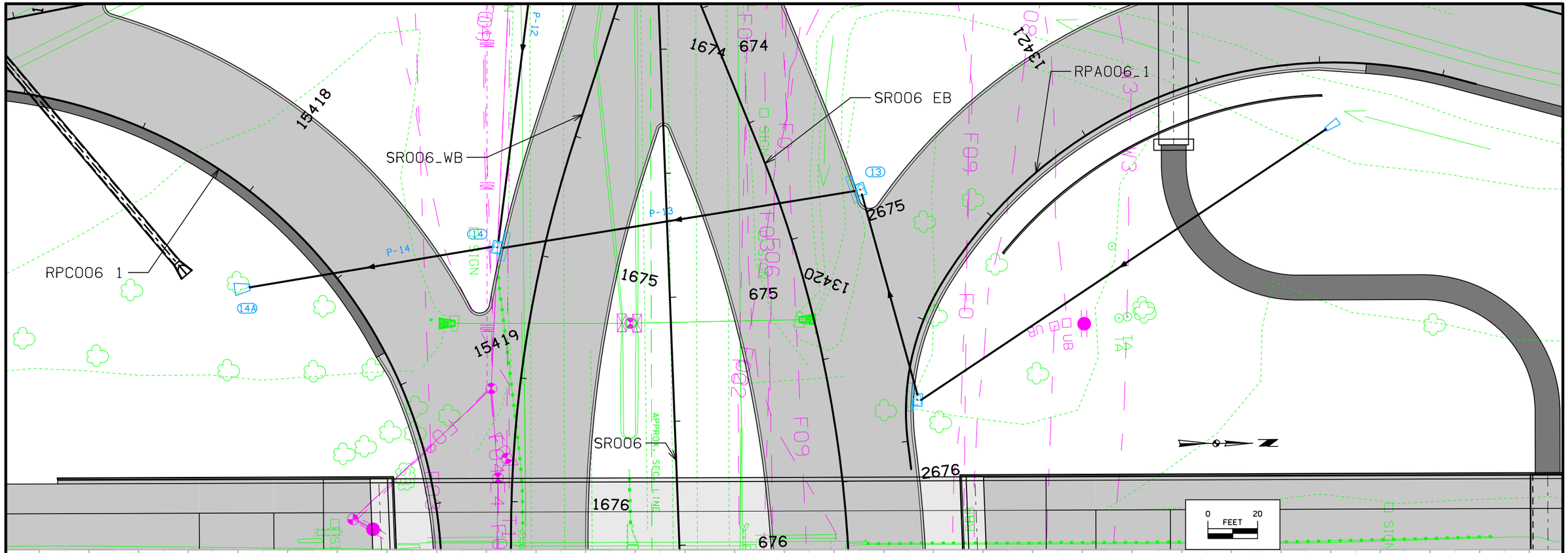

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FILE NO.	ENGLISH	DESIGN TEAM	SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER	IM-080-4(069)125--13-77	SHEET NUMBER	M.8

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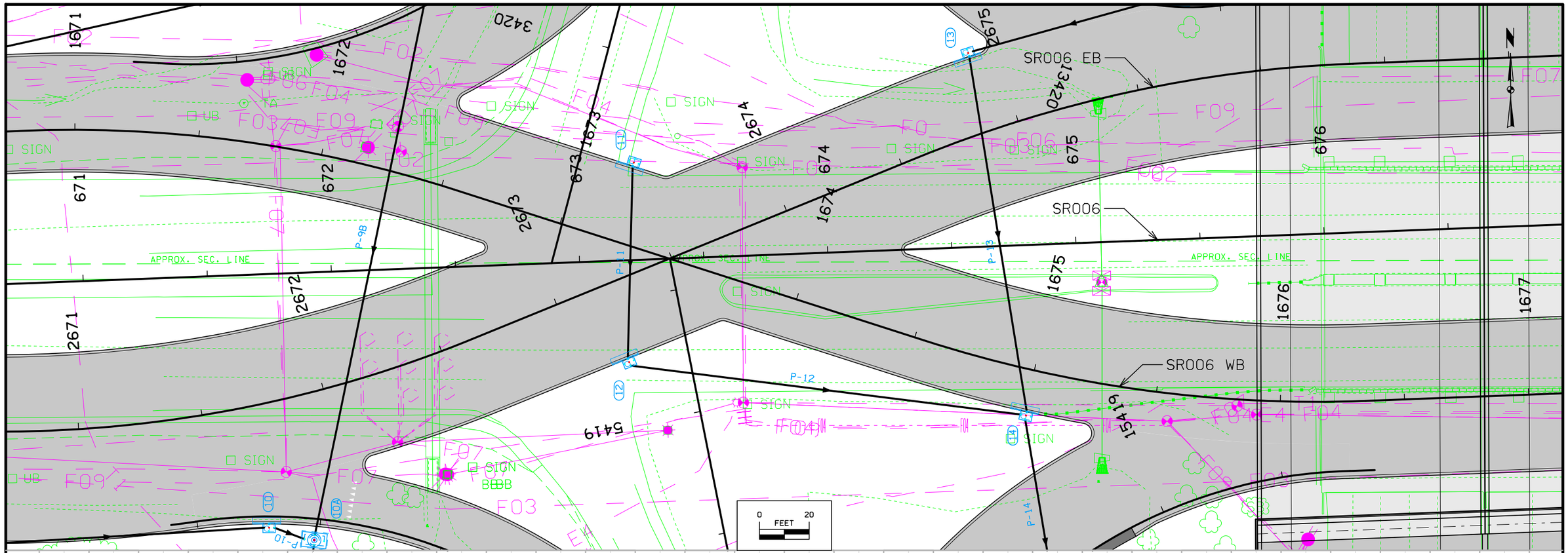

FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER M.9

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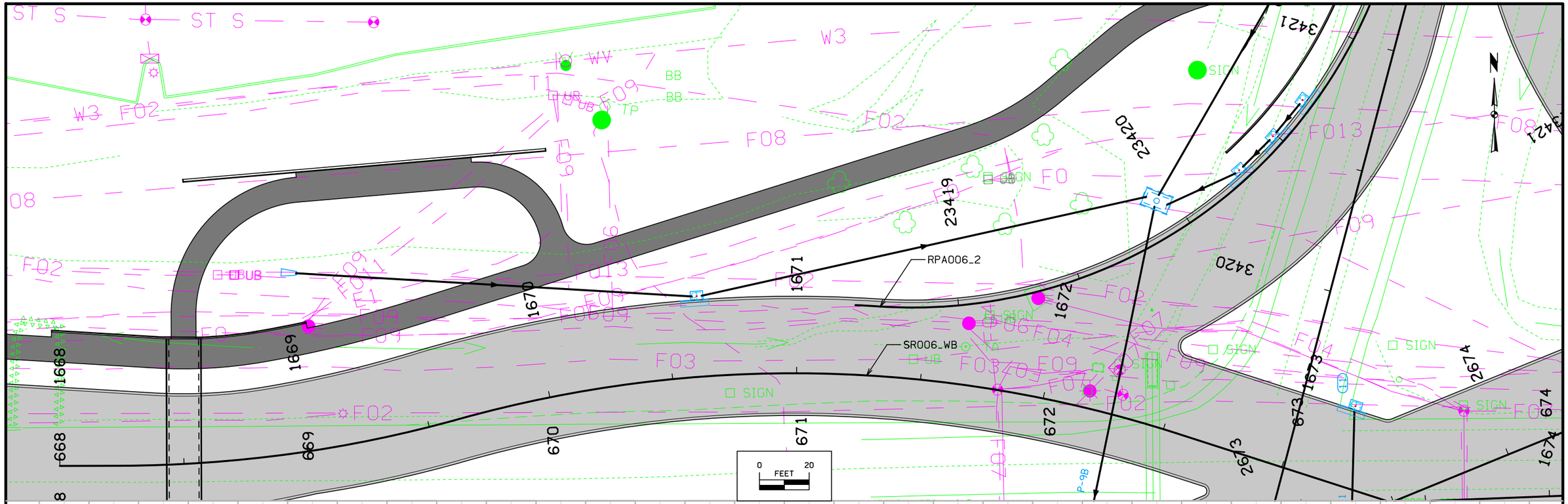

935 930 925 920 915 910 905 900 895 890

FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER M.10

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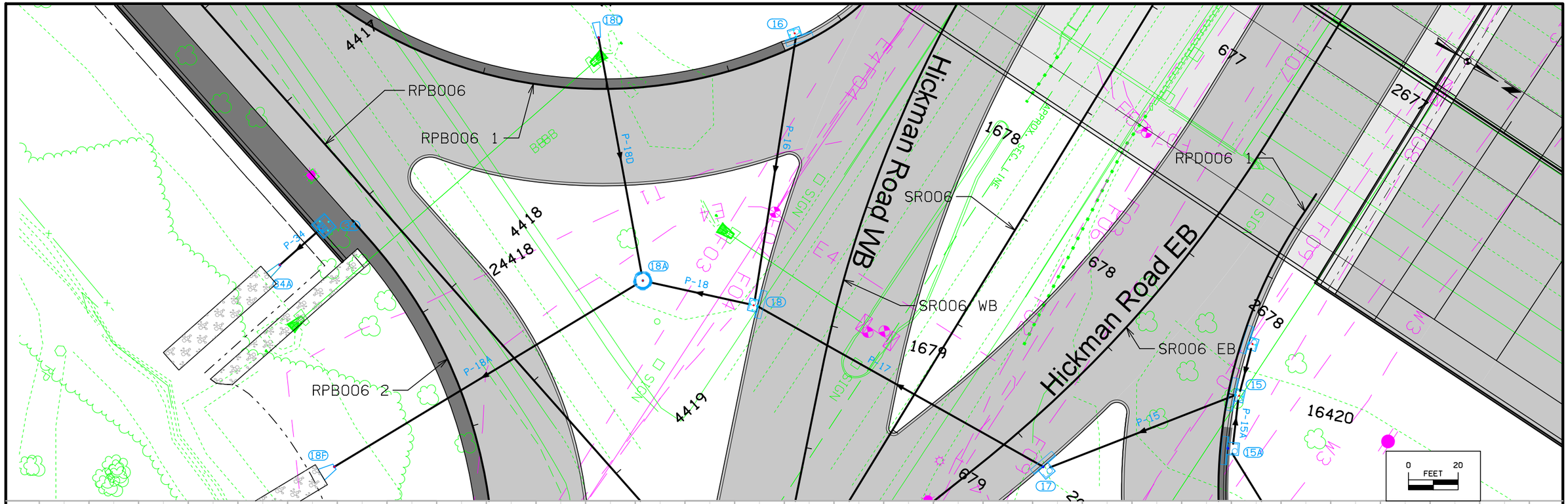

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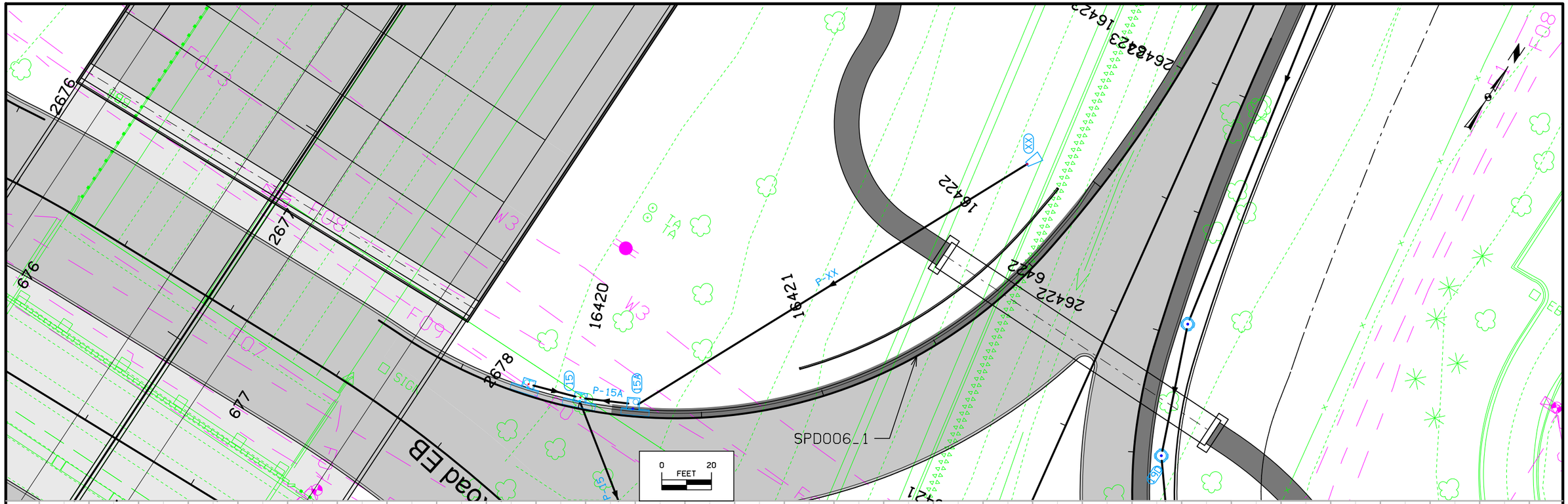

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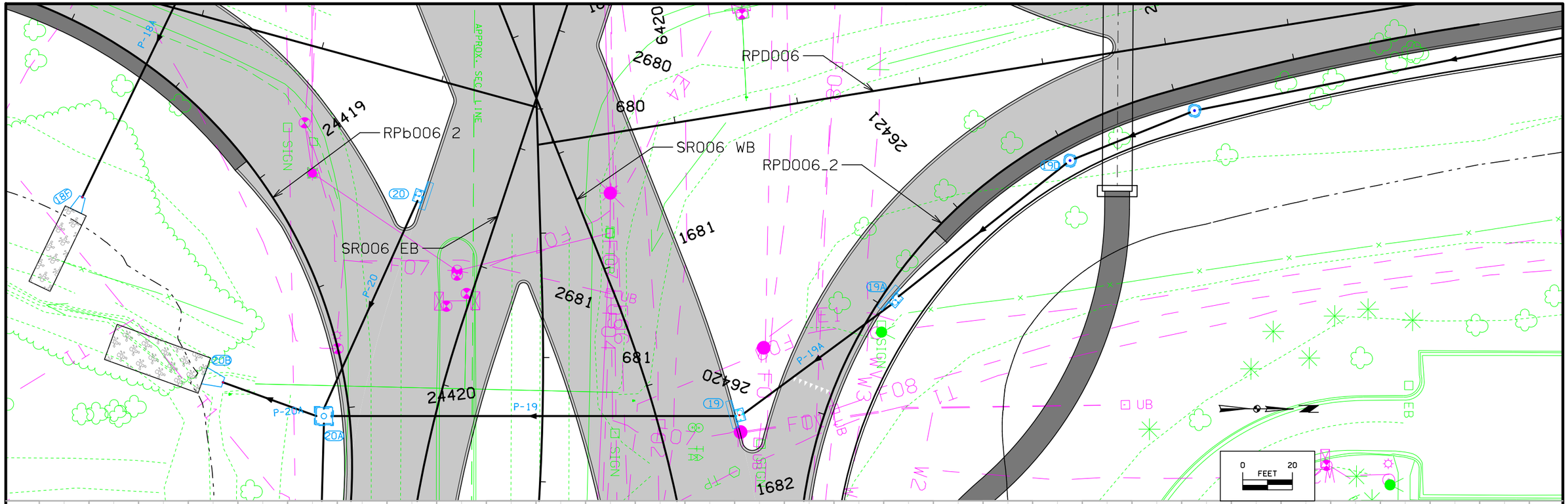

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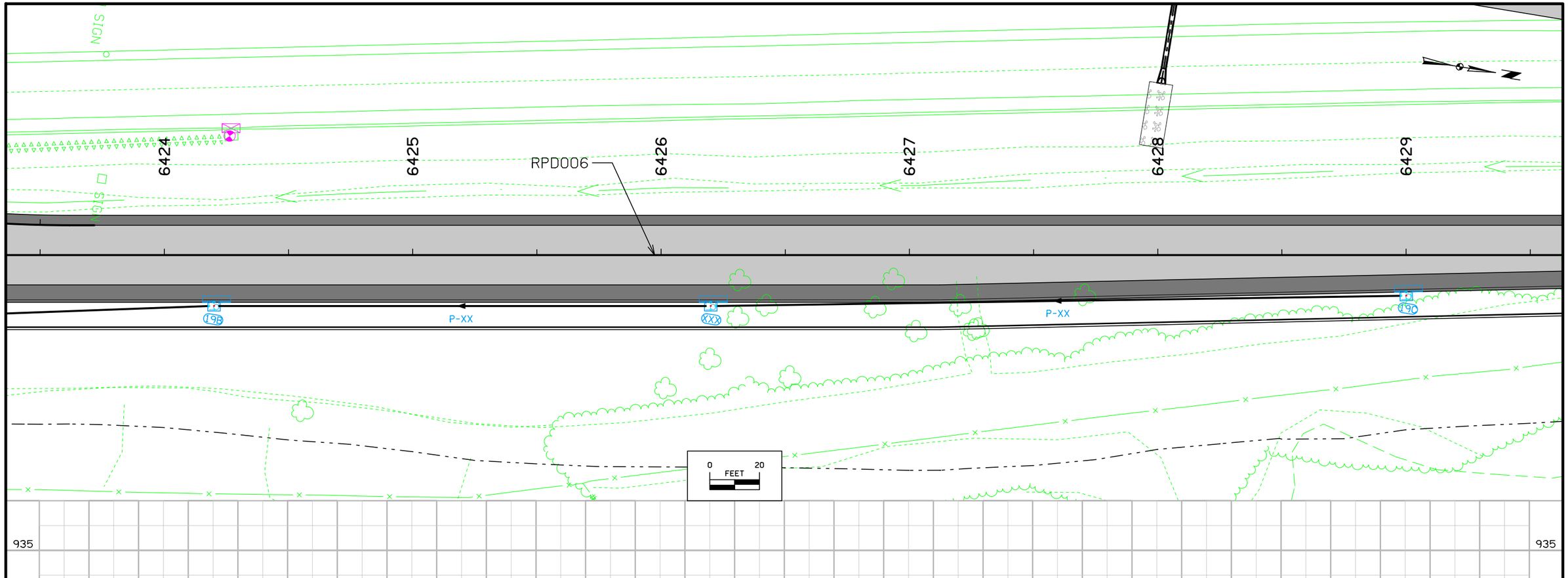
9:14:11 AM 6/30/2022 mbeerends pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\7708006015\Design_(069)_PrelimDesign\CADD_Files\Sheet_Files\SHT_77080069Z08_M13.dgn



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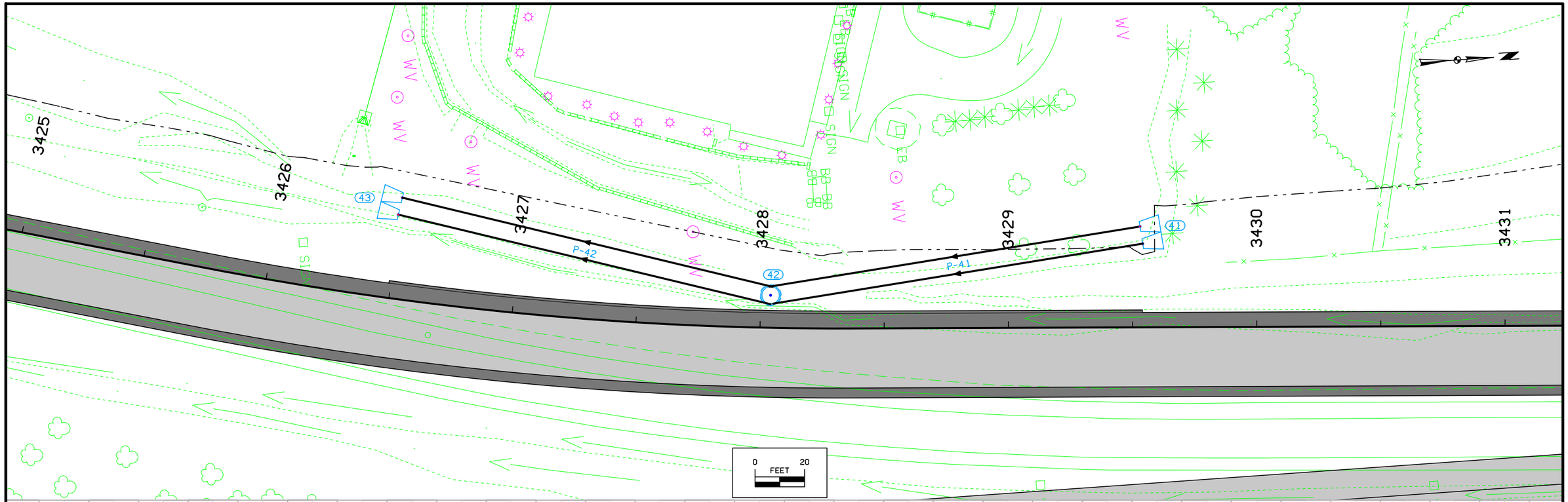
9:14:38 AM 6/30/2022 mbeerends pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\7708006015\Design_(069)_PrelimDesign\CADD_Files\Sheet_Files\SHT_77080069Z08_M14.dgn



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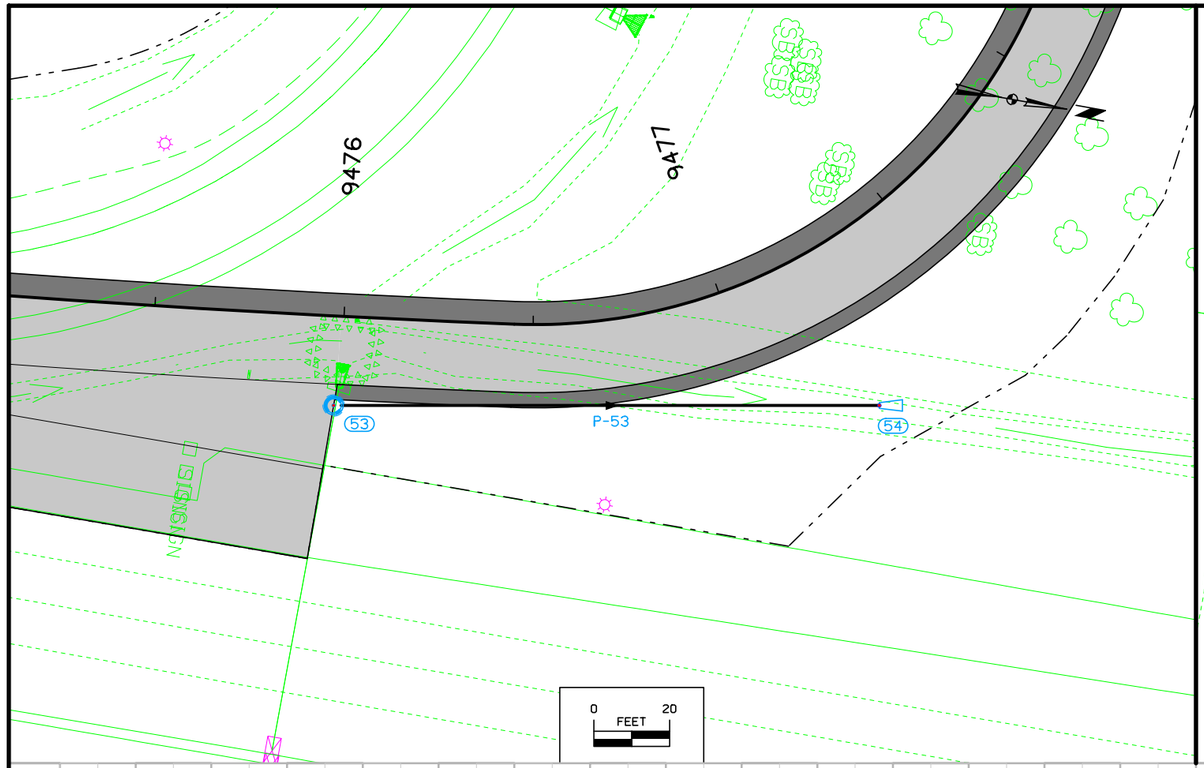

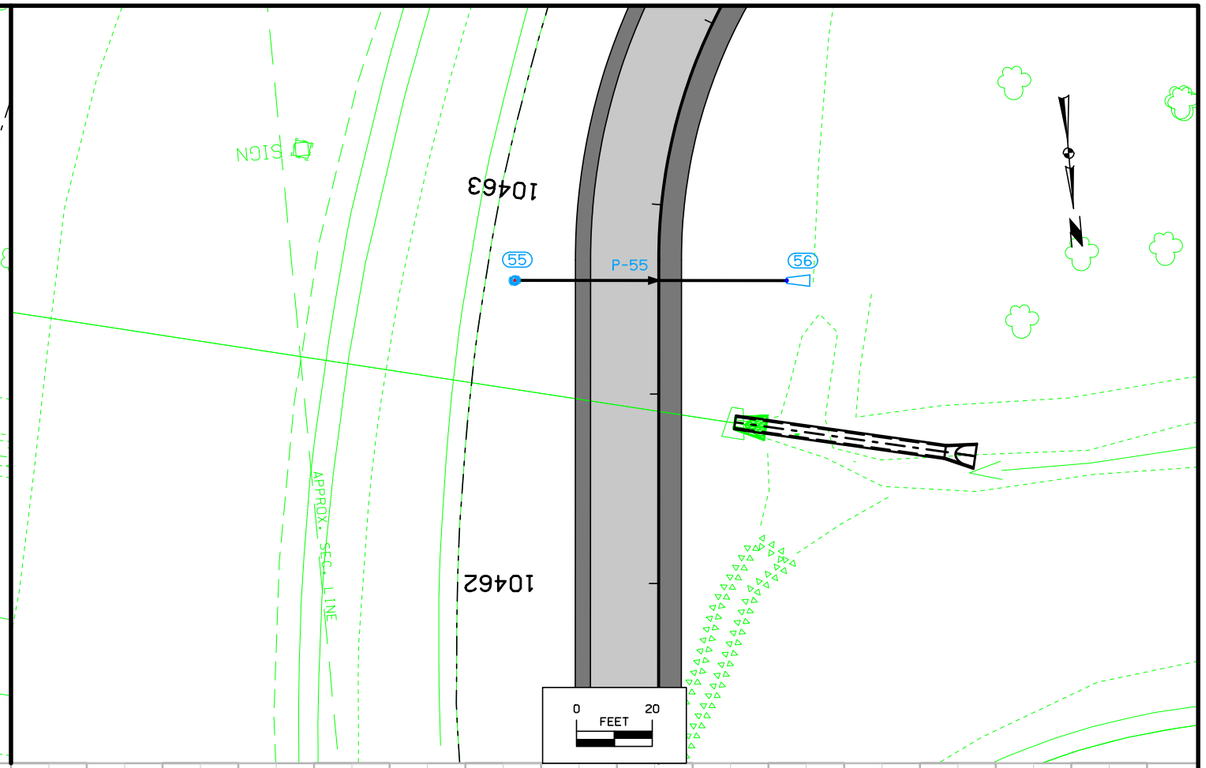

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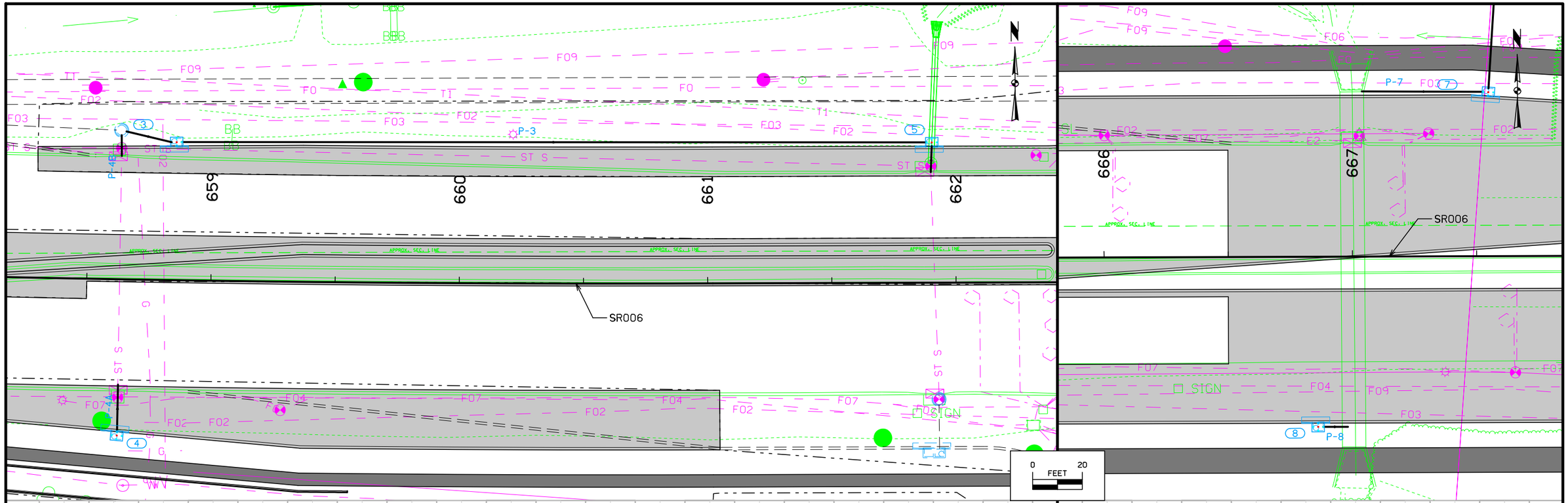
FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER M.16

9:15:00 AM 6/30/2022 mbeerends pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\7708006015\Design_(069)_PrelimDesign\CADD_Files\Sheet_Files\SHT_77080069Z08_M16.dgn



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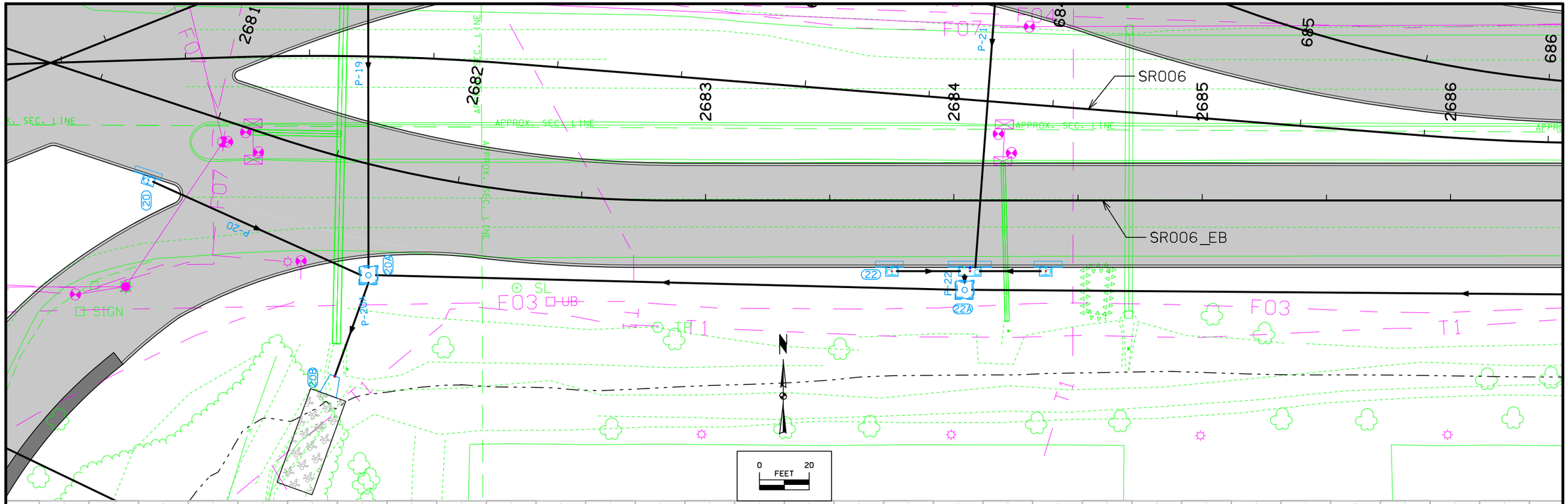
2681
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SR006
SR006_EB
APPROX. SEC. LINE
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P-20
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P-22
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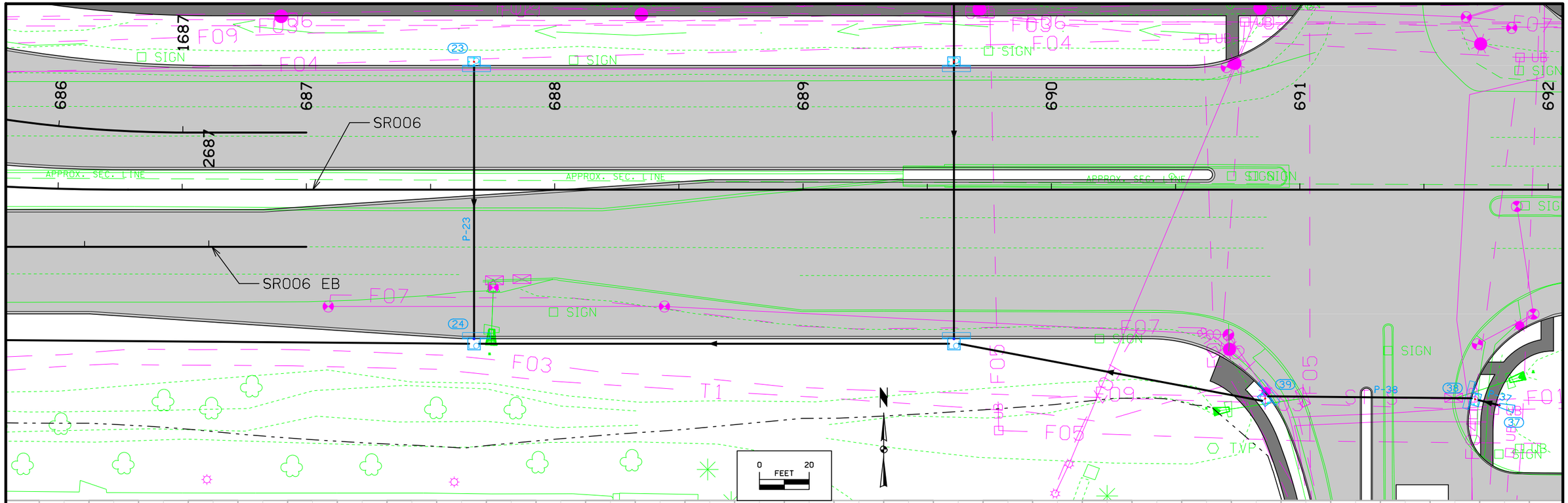

FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER M.19

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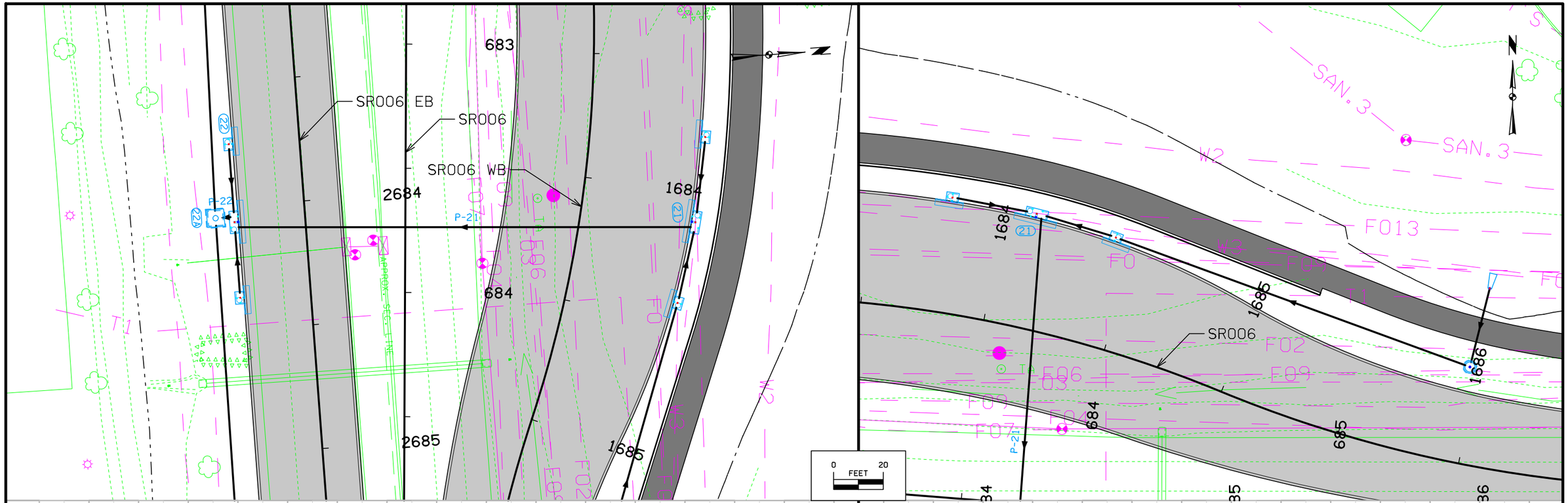

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FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER M.20

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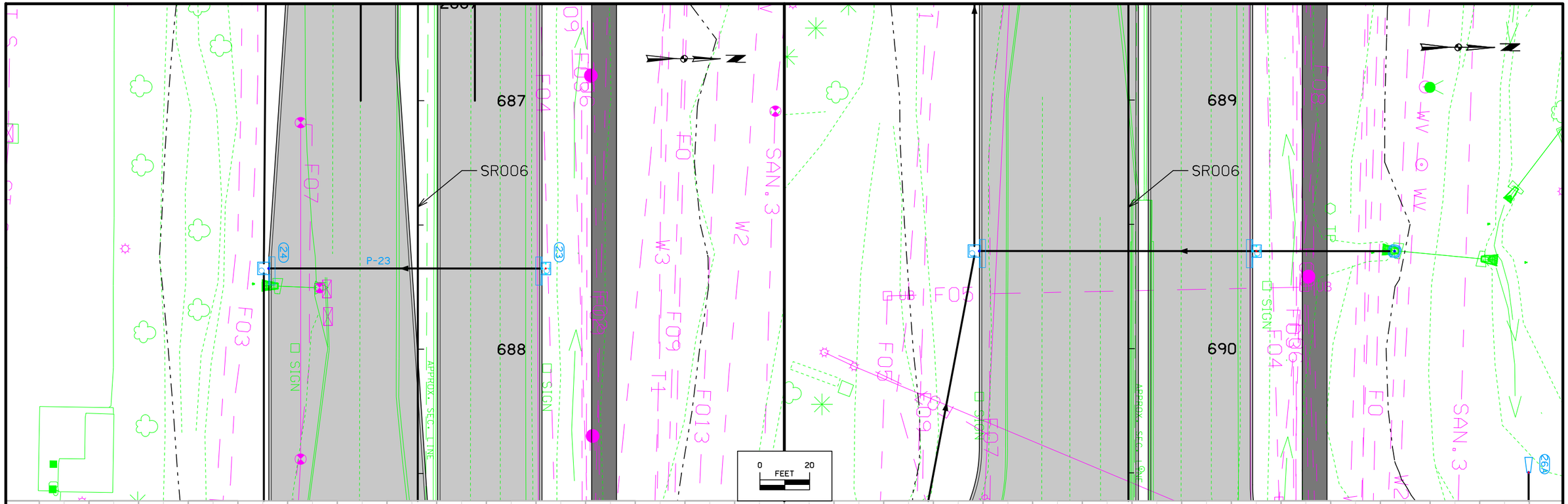

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FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER M.21

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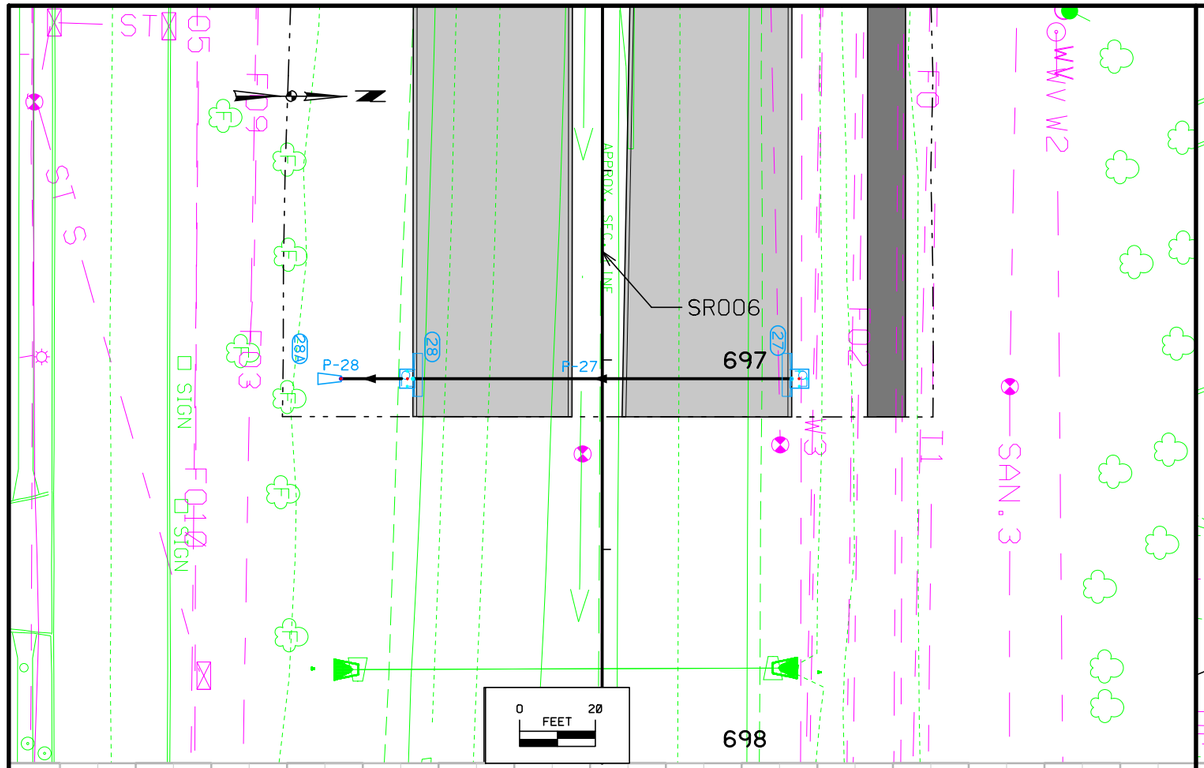

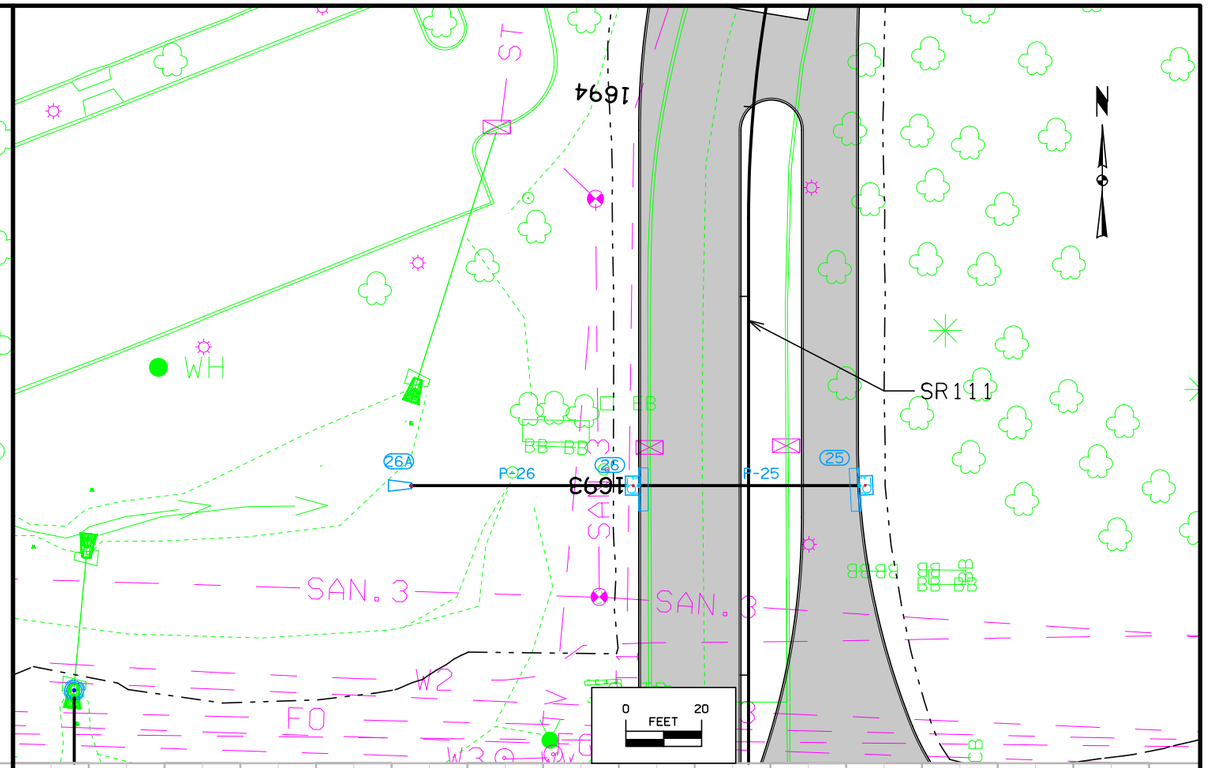

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FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER M.22

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WEBSTER TWP.
T-79N R-25W
SEC. 29

CITY OF
URBANDALE

WEBSTER TWP.
T-79N R-25W
SEC. 32

CITY OF
CLIVE

APPROX. SEC. LINE

Existing 12" Water Main
(Abandoned with (189) Project)

Water Main Relocated With (189) Project

Existing 12" Water Main
(Plug and Abandon)

Connect to Existing
Proposed 12" Water Main
Sta. 655+83.79, 68.20 Rt

12" 22.5° Bend
Sta. 655+93.78, 68.01 Rt

12" 22.5° Bend
Sta. 656+06.14, 72.87 Rt

12" Cap

12" Cap

Connect to Existing
12" 22.5° Bend
Sta. 659+81.98, 88.19 Rt

12" 22.5° Bend
Sta. 659+56.95, 96.31 Rt

0 FEET 50

Connect to Existing Water Main
Elev. = 922.80 (Approximate)
Field Verify Prior to Construction

Valve Location
Field Verify Prior to Construction

Existing HP Gas (Protect)

Proposed Ground at Water Main

Existing Ground at Water Main

Connect to Existing Water Main
Elev. = 911.24 (Approximate)
Field Verify Prior to Construction

5.5'
Min.

Existing Fiber Optic (Relocated by Others)

Existing Gas (Relocated by Others)

960 950 940 930 920 910 900 890

5 6 7 8 9 10 11 12

WATER MAIN RELOCATION

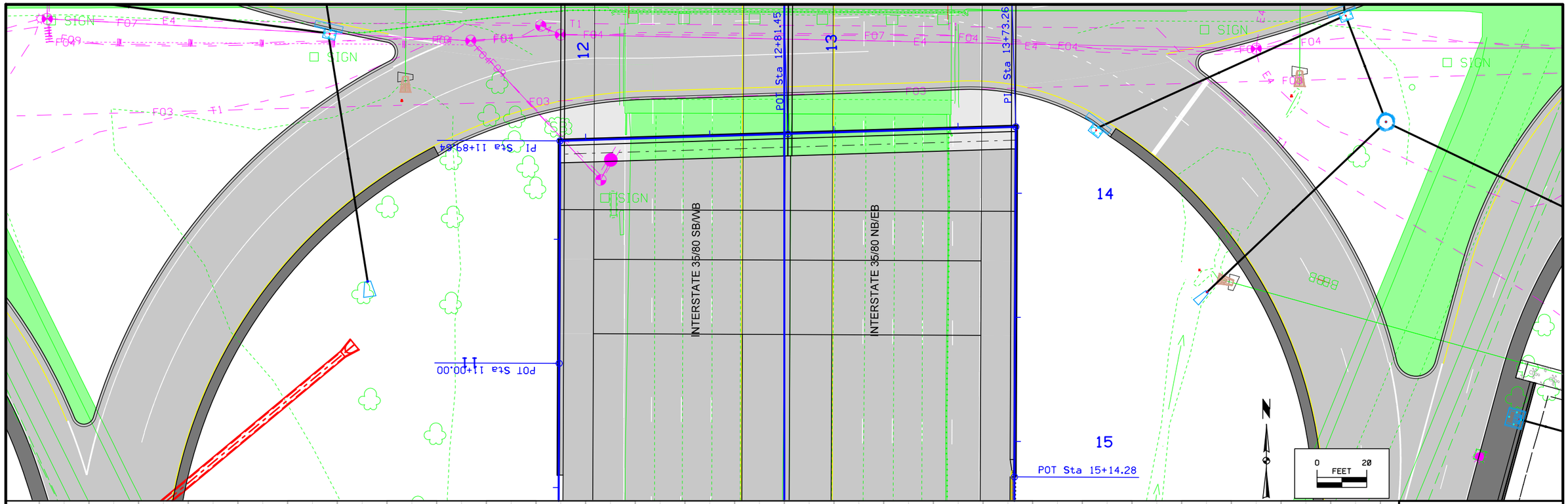
FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER MWM.1

2:23:25 PM 7/1/2022 ncarhoff pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\7708006015\Design_(069)_PrelimDesign\CADD_Files\Sheet_Files\SHT_77080069Z08_M23.dgn

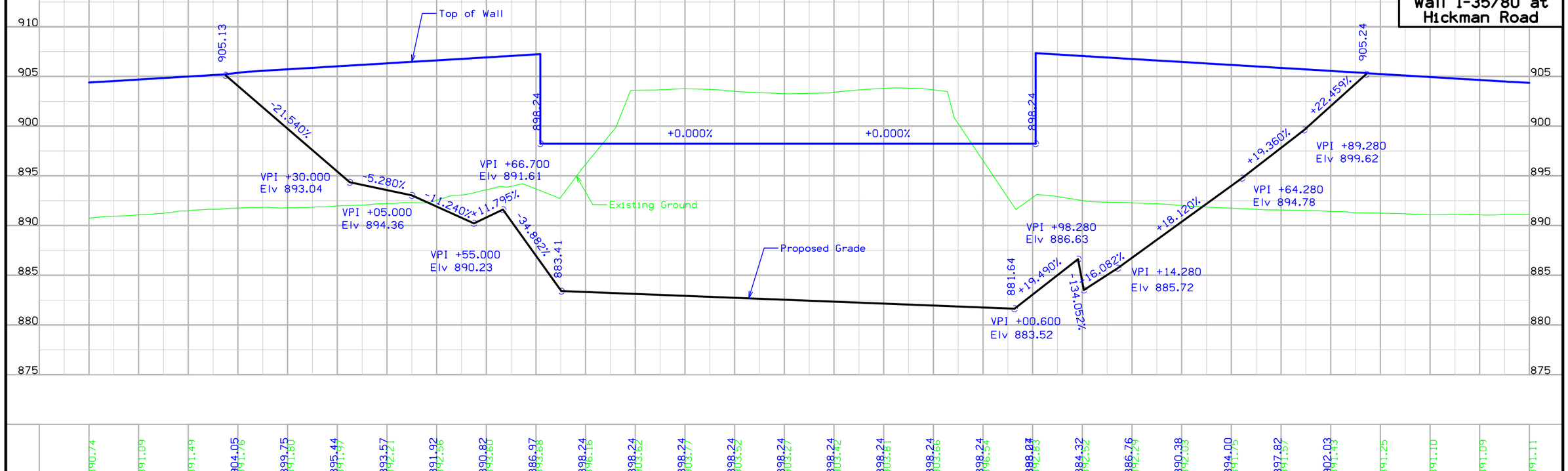
ROCK EROSION CONTROL

Refer to EC-301 and Detail 570-8

Location				L	W	Rock Erosion Control (REC)					Material Bid Quantities			Remarks
						Type 1	Type 2	Type 3	Type 4	Type 5				
Road Identification	Begin Station	End Station	Side			Rock Ditch Check	Rock Ditch	Rock Flume	Rock Splash Basin	Rock Slope Protection	Eng. Fabric	Class E Revetment	Erosion Stone	
			Lt./Rt.	FT	FT						SY	TON	TON	
I-35/80	371+49.65		RT	9.4	10				X		20.8	10.3		
	373+25.00	375+10.00	LT	185	16		X				420.0	325.6		
	374+25.47		RT	9.4	10				X		20.8	10.3		
	375+10.00		LT						X					
	375+10.00	377+14.60	LT	204.6	16		X				463.6	360.1		
	377+09.87		LT	10.5	10				X		22.6	11.6		
	379+25.00		LT	9.4	10				X		20.8	10.3		
	382+99.23		LT	9.4	10				X		20.8	10.3		
	386+00.00		RT	9.4	10				X		20.8	10.3		
	390+10.89		RT	10.5	10				X		22.6	11.6		
	394+54.04		LT	9.4	10				X		20.8	10.3		
	397+90.00	399+80.00	RT	190	16		X				431.1	334.4		
	399+04.47		LT	9.4	10				X		20.8	10.3		
	402+03.80		RT	10.5	63.1			X			108.1	72.9		
	412+24.00		LT	9.4	10				X		20.8	10.3		
	415+49.20		LT	9.4	76.2			X			119.4	78.8		
	423+80.00		LT	9.4	35.4			X			58.7	36.6		
	427+99.24		RT	9.4	25.7			X			44.2	26.6		
	432+58.10		LT	10.5	10				X		22.6	11.6		
	436+90.11		RT	8.9	11			X			21.5	10.8		
	441+28.30		LT	10.5	10				X		22.6	11.6		
	442+00.00	443+10.00	LT	110	16		X				253.3	193.6		
	443+13.00	443+81.00	RT	68	16		X				160.0	119.7		
	443+57.00	444+85.00	LT	128	16		X				293.3	225.3		
	444+87.88		LT	9.4	85.2			X			132.8	88.1		
	446+13.00	450+19.00	RT	406	16		X				911.1	714.6		
	446+83.00	448+82.00	LT	199	16		X				451.1	350.2		
	448+99.20		LT	10.5	10				X		22.6	11.6		
	453+49.24		LT	9.4	10				X		20.8	10.3		
	461+00.00		LT	9.4	10				X		20.8	10.3		
	464+00.00		LT	9.4	10				X		20.8	10.3		
	468+00.00		LT	9.4	10				X		20.8	10.3		
	477+48.00		LT	9.4	10				X		20.8	10.3		
University Ramp A	1378+00.00	1381+50.00	LT	350	16			X			786.7	616.0		
Hickman Ramp A	3426+20.00	3426+30.00	LT	10	21.7				X		40.0	23.9		
Hickman Ramp A	3432+11.30		LT	12.7	10				X		26.0	14.0		
Hickman Ramp C	5415+41.00		LT	11.6	10				X		24.3	12.8		
Douglas Ramp B	7458+05.00		RT	10.5	10				X		22.6	11.6		
Douglas Ramp E	9480+94.00		LT	10.5	10				X		22.6	11.6		
	9478+85.58		RT	10.5	10				X		22.6	11.6		
Douglas Ramp F	10462+80.00		RT	9.4	51.6			X			82.8	53.4		
	10464+82.00		RT	10.5	10				X		22.6	11.6		



South Abutment Wall I-35/80 at Hickman Road



FILE NO.	ENGLISH	DESIGN TEAM	SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER	IM-080-4(069)125--13-77	SHEET NUMBER	U.1

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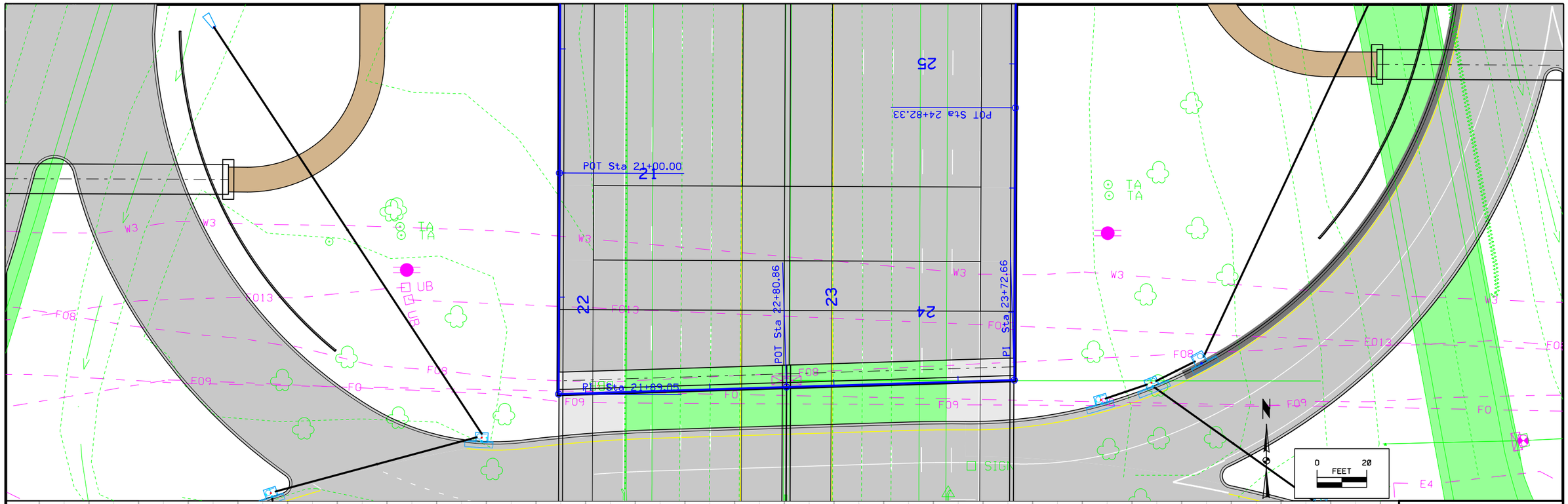
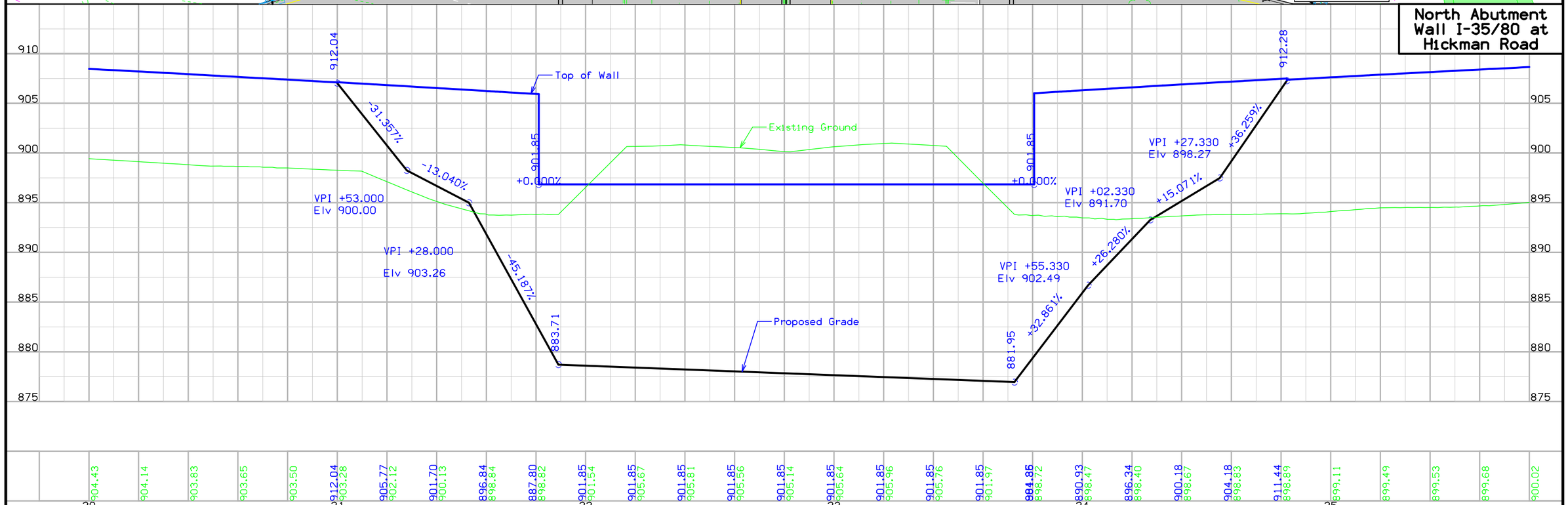


North Abutment Wall I-35/80 at Hickman Road



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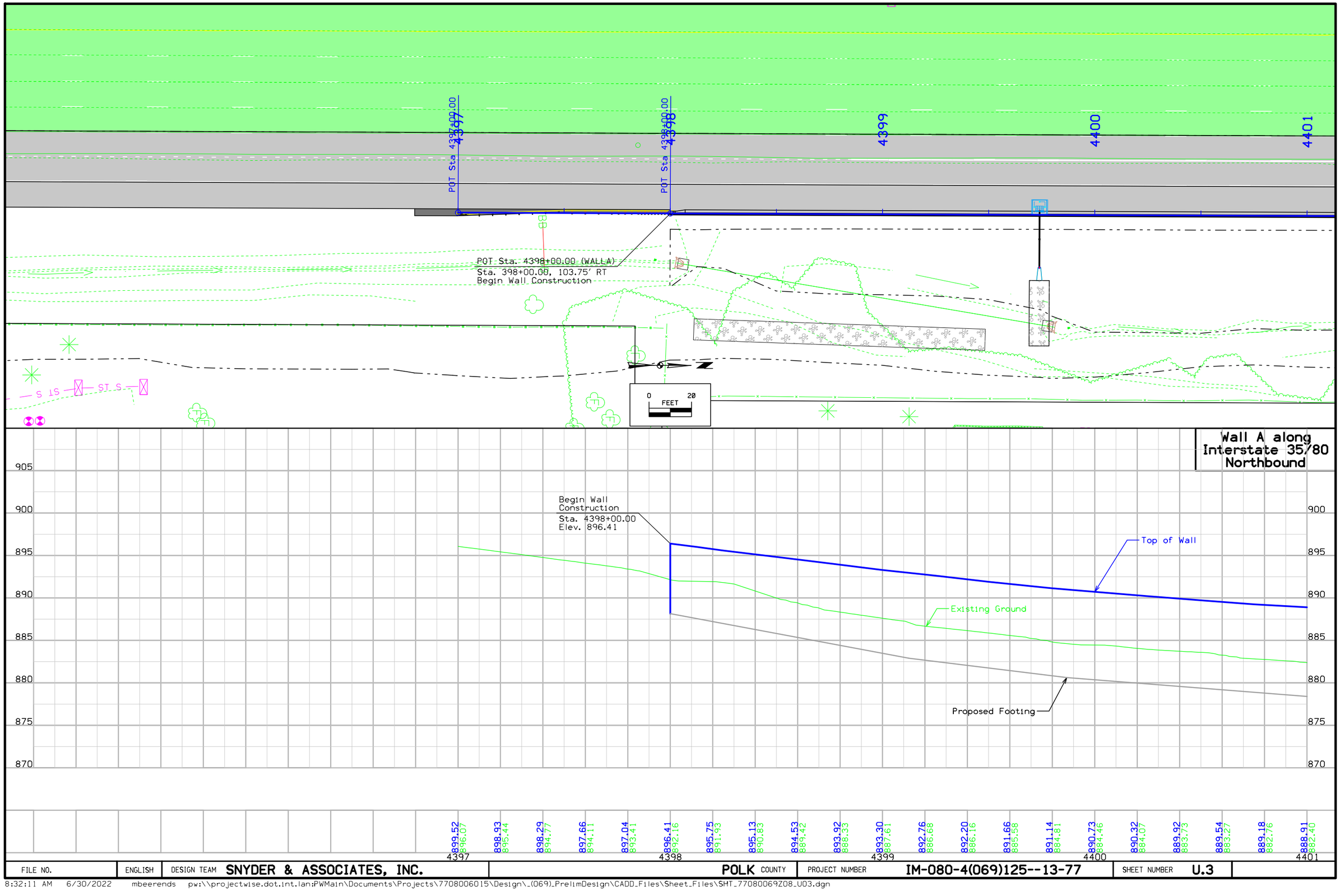
8:32:00 AM 6/30/2022 mbeerends pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\7708006015\Design_(069)_PrelimDesign\CADD_Files\Sheet_Files\SHT_77080069Z08_U02.dgn



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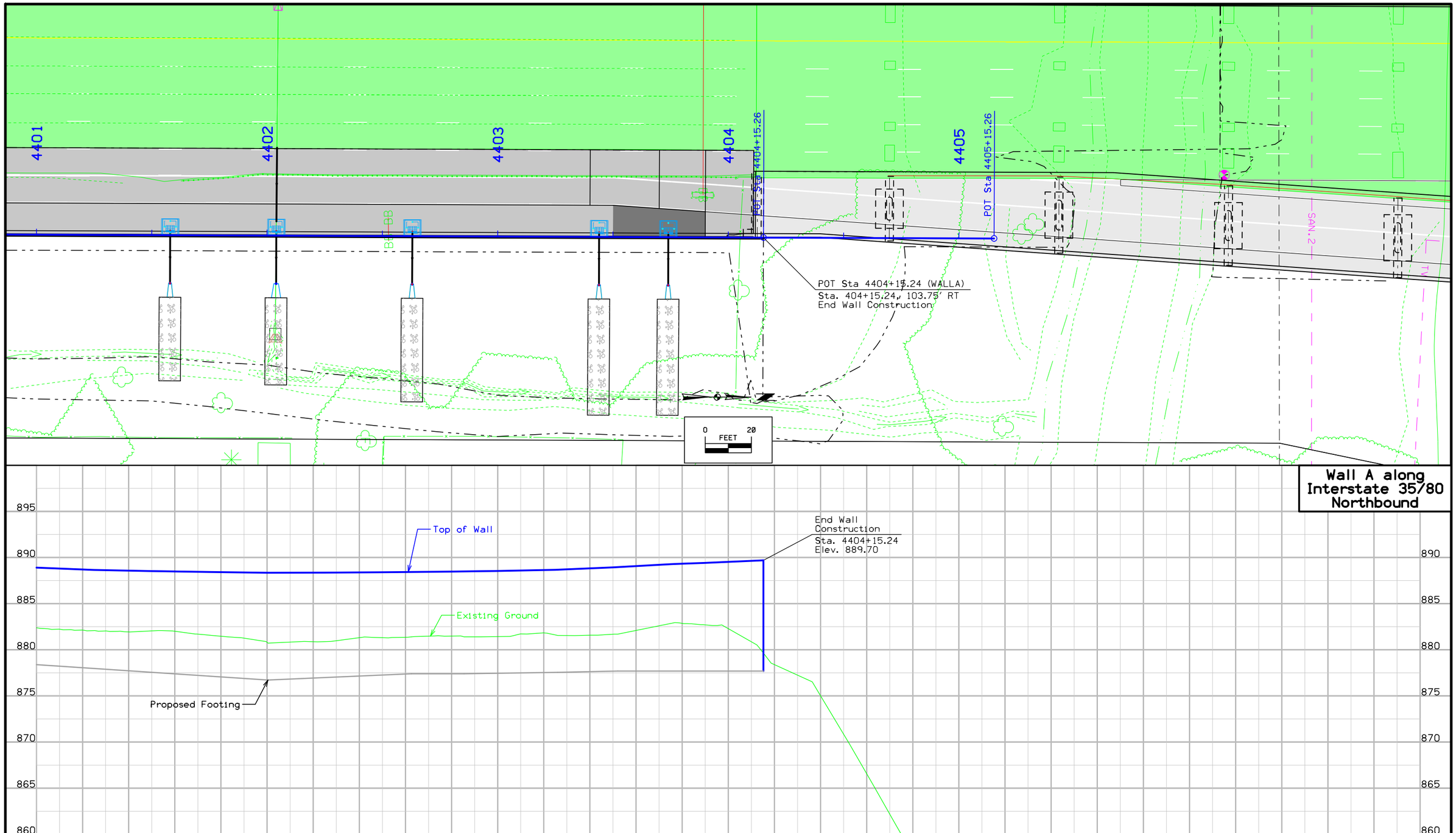

FILE NO.	ENGLISH	DESIGN TEAM	SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER	IM-080-4(069)125--13-77	SHEET NUMBER	U.4

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POT Sta 44417+21.09

PI Sta 44418+94.97

PI Sta 44419+55.27

PC Sta 44421+54.65

PI Sta 44422+84.53

44418 44419 44420 44421 44422 44423

POT Sta. 44418+20.11 (WALL B)
Sta. 408+18.29, 128.99' RT
Begin Wall Construction

0 FEET 20

Curve Data
Δ = 11° 11' 09.33" (RT)
T = 129.88
L = 258.93
R = 1,326.25
E = 6.34

Wall B along Hickman Road (US 6) Ramp B

Begin Wall Construction
Sta. 44418+20.11
Elev. 892.18

Top of Wall

Existing Ground

Proposed Footing

895 890 885 880 875 870 865 860

44417	44418	44419	44420	44421	44422	44423
860.69	862.01	866.59	872.17	877.76	892.31 879.89	892.44 881.09	892.58 881.57	892.70 881.65	892.76 881.38	892.81 880.64	892.92 880.12	893.07 880.22	893.20 880.39	893.30 879.95	893.38 880.25	893.43 879.89	893.46 880.22	893.46 880.51	893.43 880.65	893.38 880.81	893.26 880.97	893.09 881.08	892.89 881.11	892.66 881.21	892.46 881.15	892.25 881.01	892.01 880.80	891.75 880.55

FILE NO.	ENGLISH	DESIGN TEAM	SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER	IM-080-4(069)125--13-77	SHEET NUMBER	U.5

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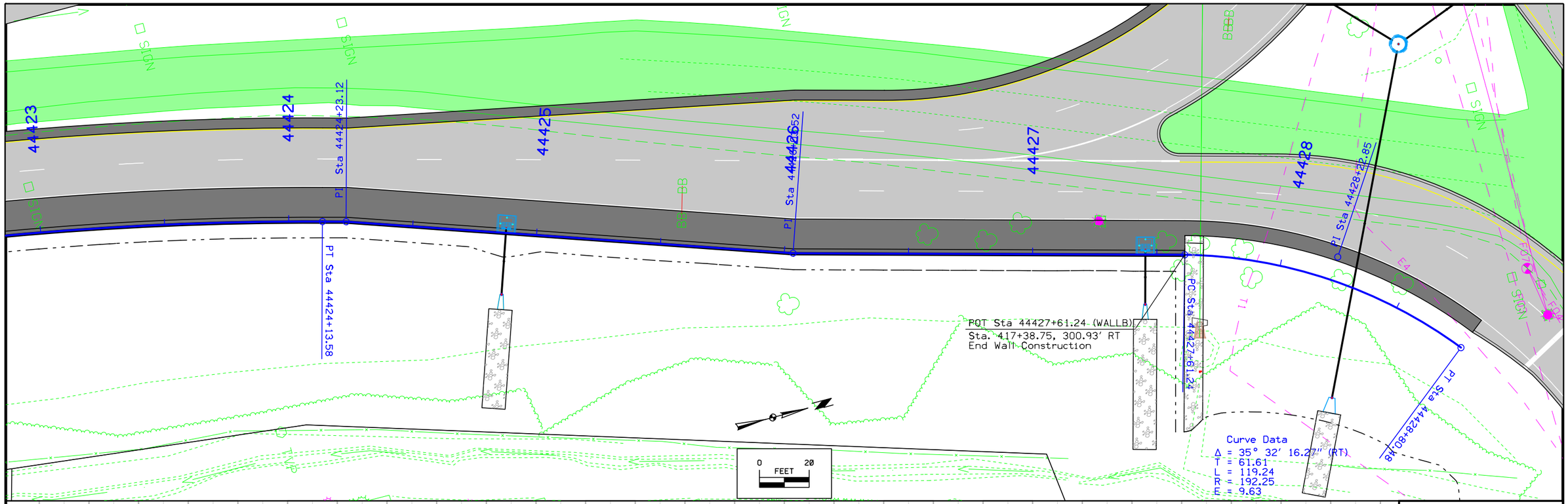

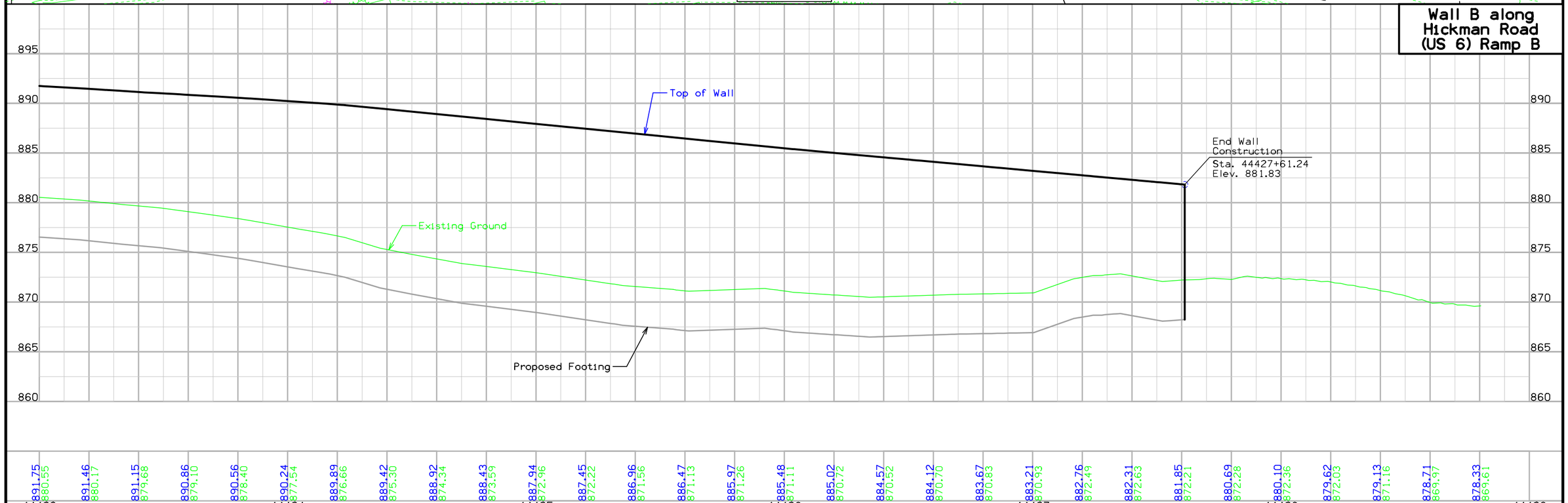

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Curve Data
Δ = 2° 02' 23.51" (LT)
T = 35.47
L = 70.93
R = 1,992.25
E = 0.32

POT Sta 45407+20.57

POT Sta. 45408+20.57 (WALLC)
Sta. , LT
Begin Wall Construction

PI Sta 45408+20.57

PC Sta 45408+37.61

PT Sta 45409+08.54

PI Sta 45409+68.83

PI Sta 45408+73.08

45408 45409 45410 45411 45412

0 20
FEET

Wall C along Hickman Road (US 6) Ramp C

Begin Wall Construction
Sta. 45408+20.57
Elev. 891.72

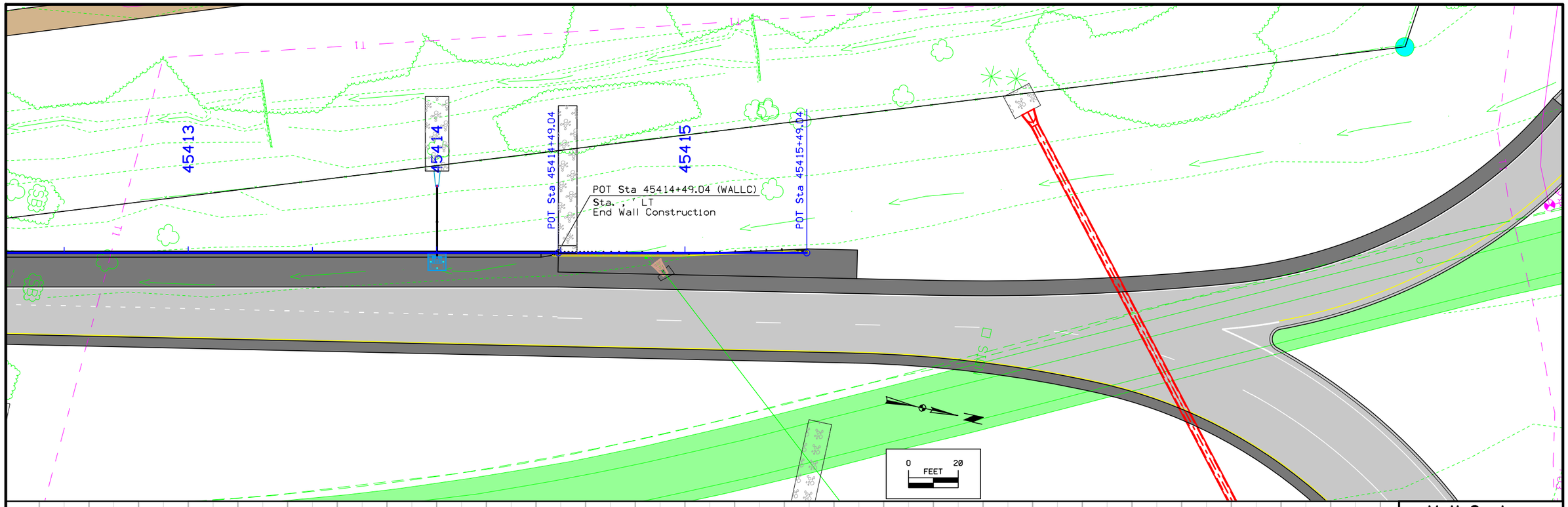
Top of Wall

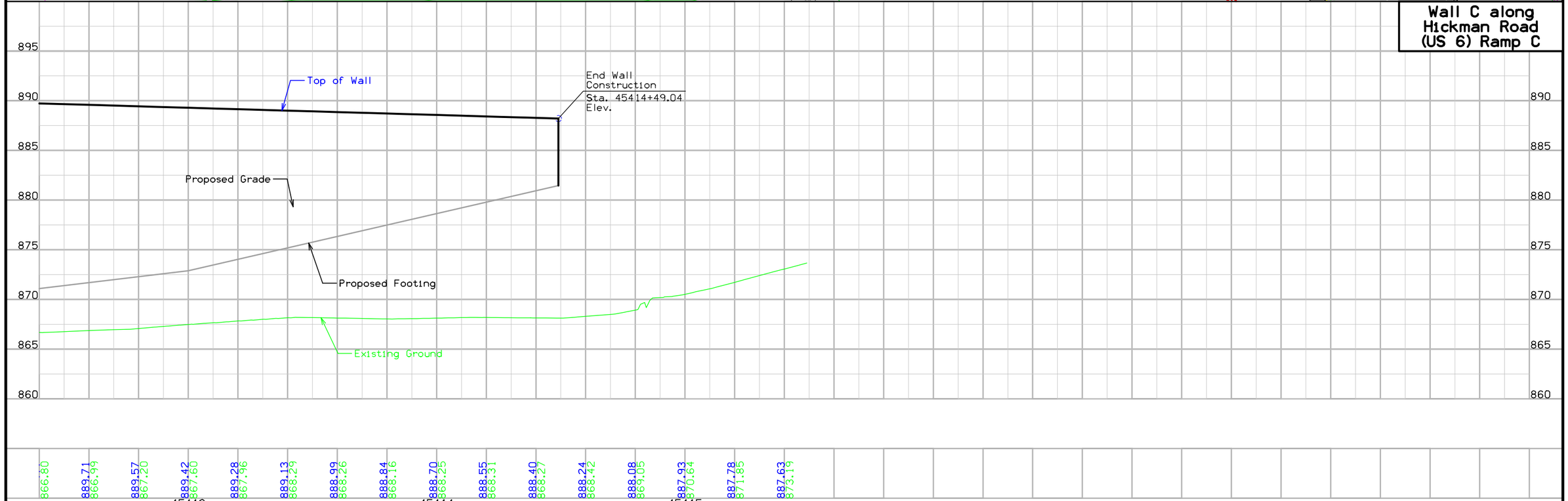
Proposed Grade

Proposed Footing

Existing Ground

| | | |





FILE NO.	ENGLISH	DESIGN TEAM	SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER	IM-080-4(069)125--13-77	SHEET NUMBER	U.8

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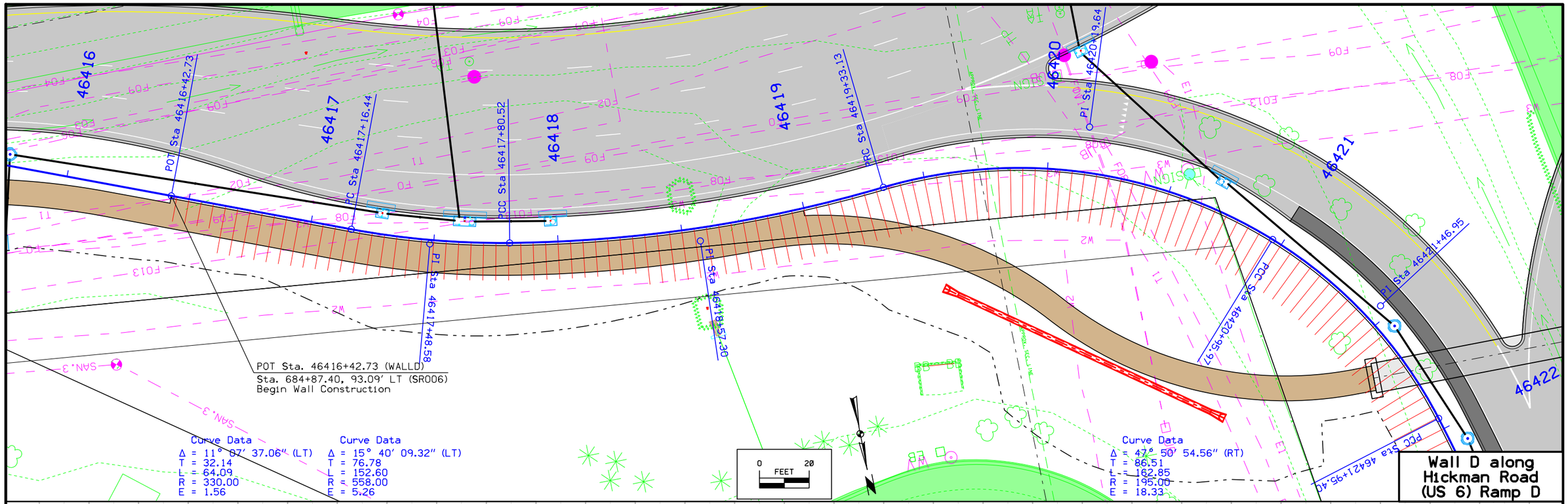
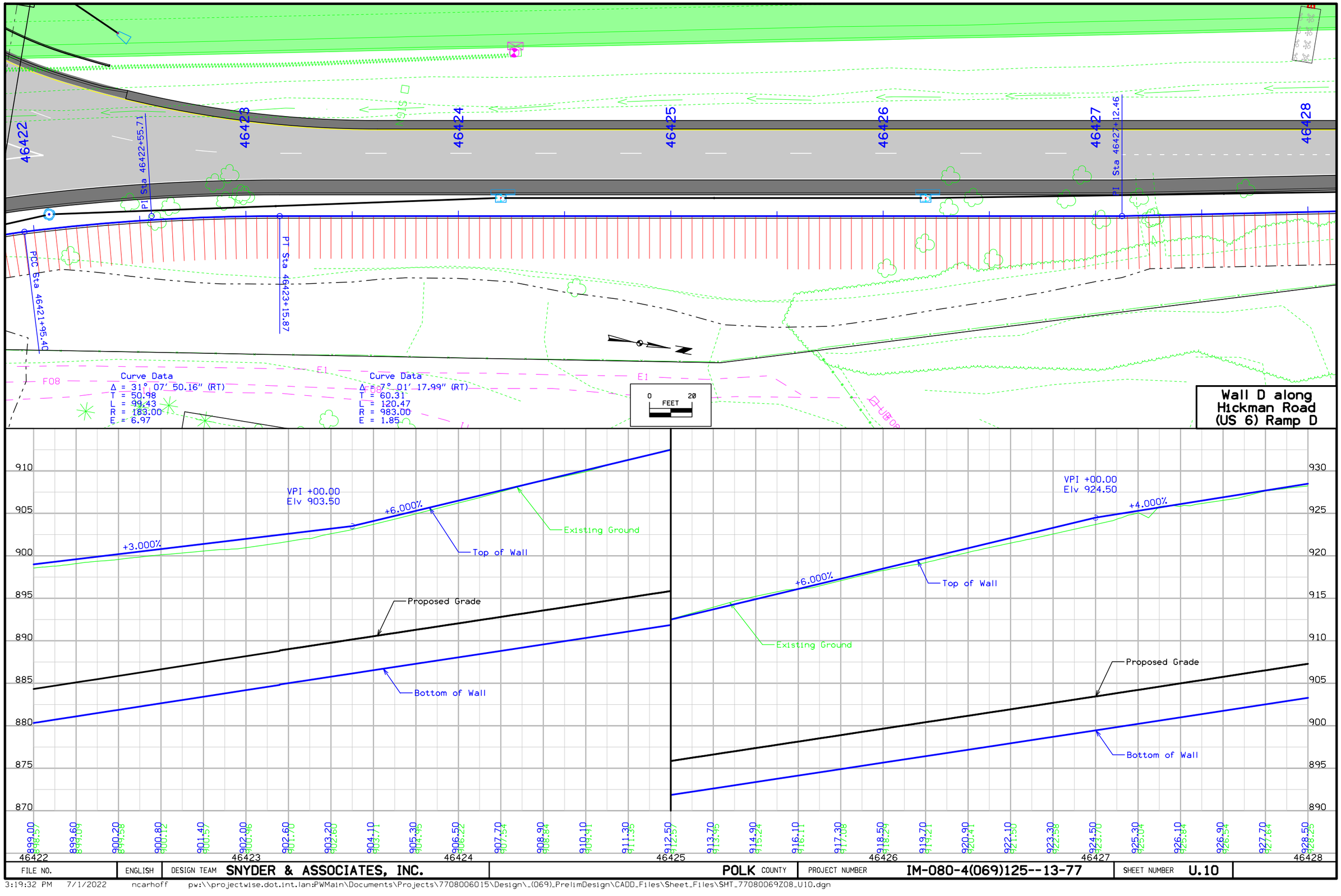


FILE NO.	ENGLISH	DESIGN TEAM	SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER	IM-080-4(069)125--13-77	SHEET NUMBER	U.9

3:19:24 PM 7/1/2022 ncarhoff pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\7708006015\Design_(069)_PrelimDesign\CADD_Files\Sheet_Files\SHT_77080069Z08_U09.dgn



FILE NO.	ENGLISH	DESIGN TEAM	SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER	IM-080-4(069)125--13-77	SHEET NUMBER	U.10

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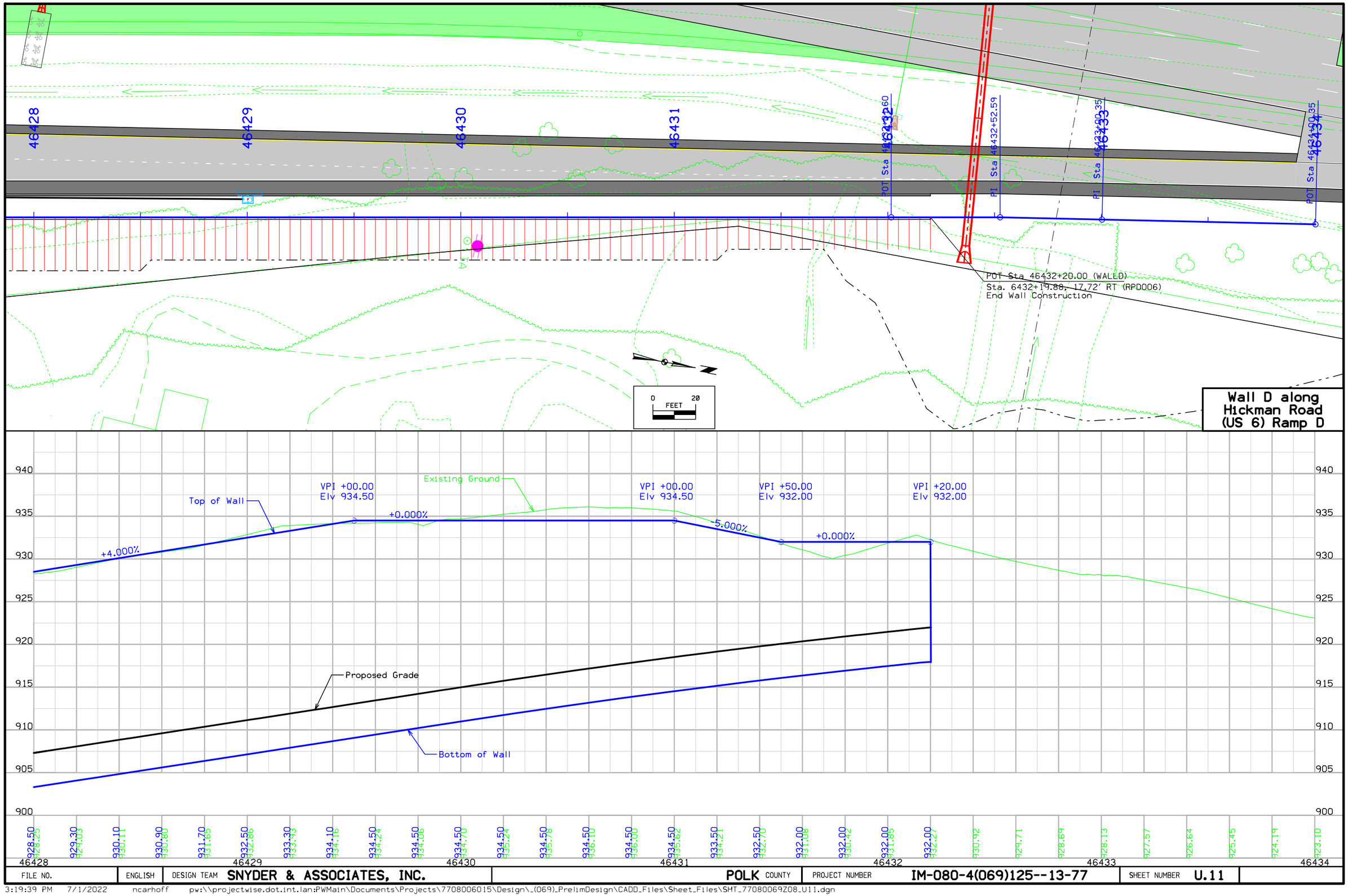

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POT Sta. 4656+86.28 (WALLE)
Sta. 656+86.28, 66.97' RT
Begin Wall Construction

POT Sta 4659+57.91 (WALLE)
Sta. 659+55.69, 84.00' RT
End Wall Construction

0 FEET 20

Wall E along Hickman Road near Menards

Begin Wall Construction
Sta. 4656+86.28
Elev.

Top of Wall

Proposed Grade Back of Wall

End Wall Construction
Sta. 4659+57.91
Elev.

Existing Ground

Proposed Footing

945 940 935 930 925 920 915 910

926.32 925.31 924.23 923.19 922.00 921.04 920.16 919.48 918.83 918.15 917.91 919.17 918.52 918.09 918.12 918.12

4657 4658 4659

FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER U.12

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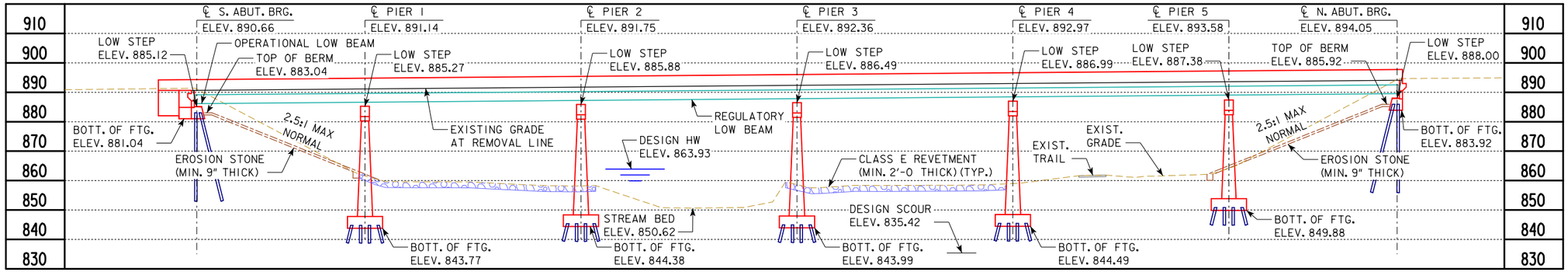
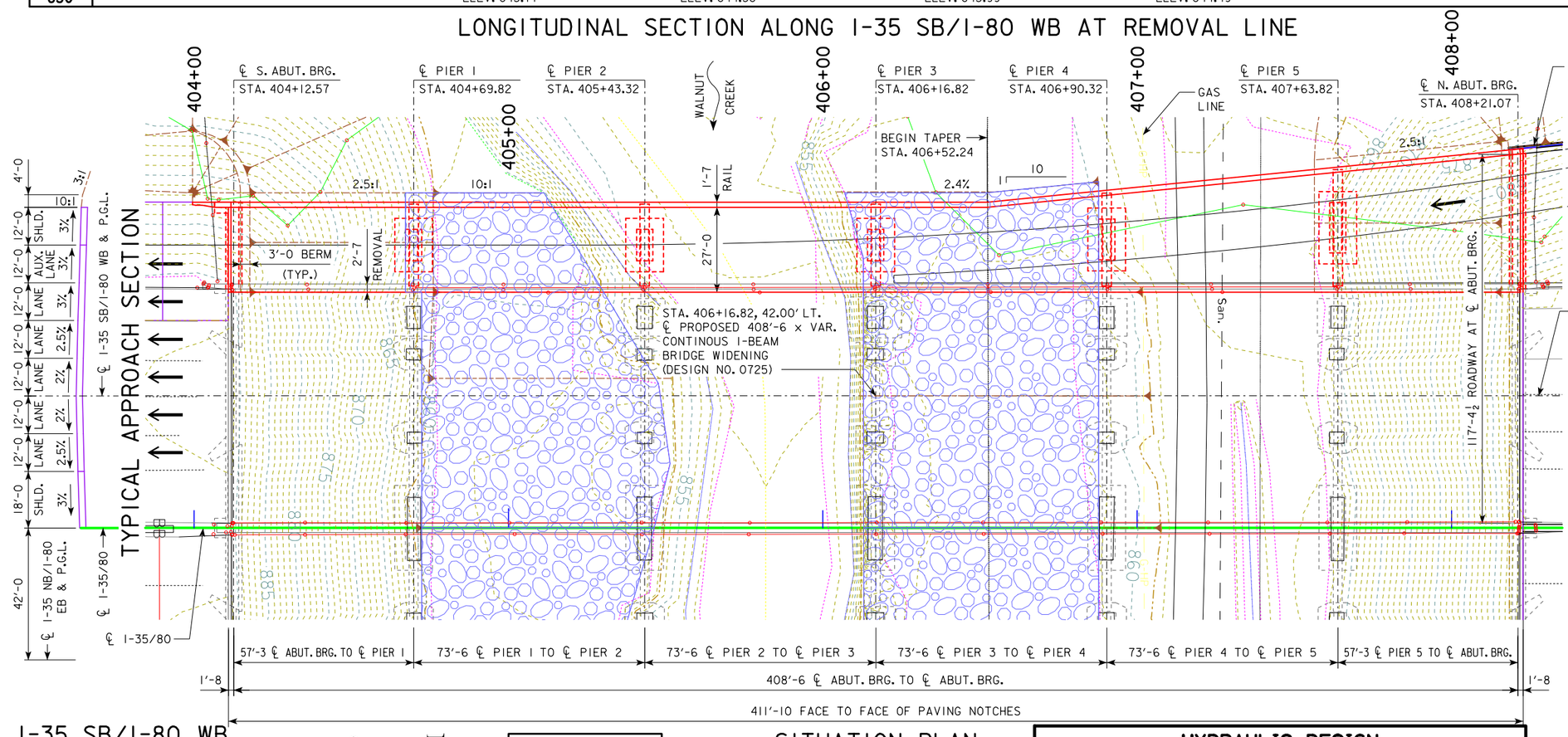
BENCHMARK BM55: NORTHING 7497393.85 EASTING 18481482.57 ELEVATION 929.83 FOUND BRASS PLUG IN CONCRETE/NORTH SIDE OF HICKMAN ROAD



LONGITUDINAL SECTION ALONG I-35 SB/I-80 WB AT REMOVAL LINE



HYDRAULIC DATA

DRAINAGE AREA = 52.8 SQ. MI.
STREAM SLOPE = 7.0 FT./MI.
AVG. LOW WATER STAGE = 852.0

Q_{50} = 13,020 CFS
STAGE = 863.27
REGULATORY LOW BEAM = 887.56
BACKWATER = 1.73 FT.
AVG. BRIDGE VELOCITY = 10.9 FPS

Q_{100} = 16,110 CFS
STAGE = 863.93
OPERATIONAL LOW BEAM = 886.20
BACKWATER = 2.45 FT.
AVG. BRIDGE VELOCITY = 12.1 FPS

Q_{200} = 19,000 CFS
STAGE = 864.79
CALCULATED DESIGN SCOUR = 835.42

Q_{500} = 22,605 CFS
STAGE = 865.83
AVG. BRIDGE VELOCITY = 13.8 FPS
CALCULATED CHECK SCOUR = 833.17

ROADWAY OVERTOP 889.95
STA. 402+50

EXTREME HW STAGE = 863.0
DATE = UNKNOWN

50, 100 & 500 YR. STAGES AND DISCHARGES FROM POLK COUNTY F.I.S., DATED FEBRUARY 1, 2019. F.I.S. DATUM 0.00 FT. ABOVE PROJECT DATUM.

THEORETICAL GRADE S.B. I-35/80 AT REMOVAL LINE

NOTE:
IT IS INTENDED TO U.A.C. THE EXISTING GRADE. HOWEVER, IN ORDER TO SHOW ELEVATIONS FOR THE NEW CONSTRUCTION, A THEORETICAL GRADE WAS ESTABLISHED ALONG THE REMOVAL LINE THAT ATTEMPTS TO MATCH THE ROADWAY SURFACE ALONG THE REMOVAL LINE AS CLOSE AS PRACTICABLE.

LOCATION

I-35 SB AND I-80 WB OVER
WALNUT CREEK & BIKE TRAIL
T-79N R-25W
SECTION 32
WALNUT TOWNSHIP
POLK COUNTY
FHWA NO. 41290
BRIDGE MAINT. NO. 7724.8L080
LATITUDE 41.611277°
LONGITUDE -93.777003°

PRELIMINARY

I-35 SB/I-80 WB TRAFFIC ESTIMATE

2019 AADT	55,400	V.P.D.
2042 AADT	84,800	V.P.D.
2042 DHV	7,680	V.P.H.
TRUCKS	14	%
TOTAL DESIGN ESALs	-	

SHUCK-BRITSON

N

0 ENGLISH 40
SCALE IN FEET

NOTES:

THIS DESIGN IS FOR THE WIDENING OF THE EXISTING 408'-6 X 74'-6 CONTINUOUS I-BEAM BRIDGE, POLK DESIGN NO. 787, FHWA NO. 41290, MAINT. NO. 7724.8L080.
ALL OFFSETS ARE MEASURED FROM ℄ I-35/80.
ALL DIMENSIONS ARE IN FEET U.N.O.
BEAM TYPE - CONTINUOUS I-BEAM, DEPTH = 3'-0.
TL-5 BRIDGE RAILING PROPOSED.
PIER TYPE - TEE PIER.
BERM SLOPES TO BE CONFIRMED DURING FINAL DESIGN.
SEE SHEET V.2 FOR ADDITIONAL NOTES.
SEE SHEET V.3 FOR FRAMING PLAN AND V.4-V.5 FOR STAGING.

SITUATION PLAN

UTILITY LEGEND

--G-HP--	GAS
--San.--	SANITARY SEWER
--SAN.2--	SANITARY SEWER
--W--	WATER

UTILITIES SHOWN ON THIS SHEET ARE FOR INFORMATION ONLY, SEE ROAD DESIGN SHEETS FOR FINAL UTILITY INFORMATION.

HYDRAULIC DESIGN

LICENSED PROFESSIONAL ENGINEER
David J. Mulholland
P14746
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.

David J. Mulholland 05/24/2022
Signature Date

David J. Mulholland
Printed or Typed Name

My license renewal date is December 31, 2022

Pages or sheets covered by this seal: SHEETS V.1 AND V.2
(HYDRAULIC DESIGN, CHANNEL GRADING, REVETMENT)

DESIGN FOR 0° SKEW

408'-6 X VAR. CONTINUOUS I-BEAM BRIDGE WIDENING TO 408'-6 X VAR.

57'-3 END SPANS 4 - 73'-6 INTERIOR SPANS

SITUATION PLAN - SB/WB

STATION 406+16.82, 42.00' LT. (℄ I-35/80) MAY, 2022

POLK COUNTY

IOWA DEPARTMENT OF TRANSPORTATION

DESIGN SHEET NO. 1 OF 5 FILE NO. 32251 DESIGN NO. 0725

DESIGN TEAM SMK/JAG/SR S.B.I. NO. 121.0240.01C POLK COUNTY PROJECT NUMBER IM-080-3(266)125--13-77 SHEET NUMBER V.1

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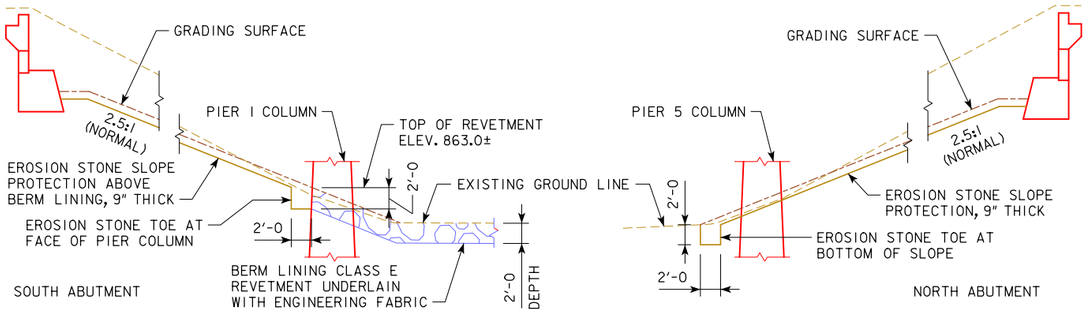
BENCHMARK BM55: NORTHING 7497393.85 EASTING 18481482.57 ELEVATION 929.83 FOUND BRASS PLUG IN CONCRETE/NORTH SIDE OF HICKMAN ROAD



SECTION THRU EROSION STONE AND EMBEDDED REVETMENT BERM

ESTIMATED BERM ARMORING QUANTITIES

LOCATION	REVETMENT CL. E (TON)	EROSION STONE (TON)	ENGINEERING FABRIC (SY)	EXCAVATION, CLASS 10 CHANNEL (CY)
BERM LINING - SOUTH ABUTMENT	———	76.3	227.3	47.7
BERM LINING - NORTH ABUTMENT	———	131.0	374.8	81.9
STONE TOE - SOUTH ABUTMENT	———	7.7	11.4	4.8
STONE TOE - NORTH ABUTMENT	———	10.1	16.4	6.3
CHANNEL LINING - SOUTH	848.5	———	872.6	530.3
CHANNEL LINING - NORTH	959.7	———	982.6	599.8
TOTALS	1808.2	225.1	2485.1	1270.8

EXCAVATION QUANTITY CALCULATED FROM GRADING SURFACE.
REVETMENT, CLASS E AND EROSION STONE ESTIMATED AT 1.6 TON/CY.

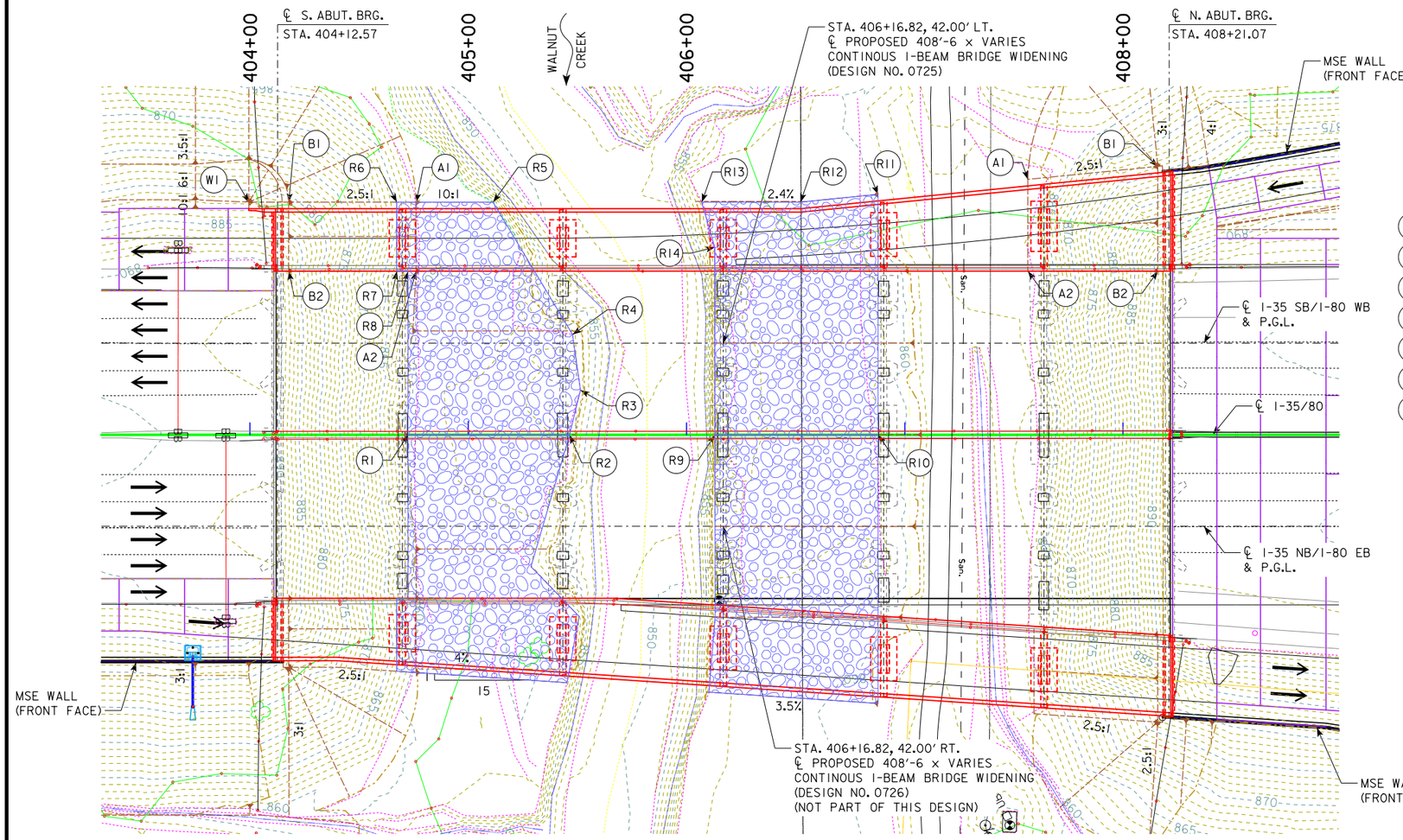
BERM SLOPE LOCATION TABLE

POINTS	SOUTH ABUTMENT			NORTH ABUTMENT		
	STATION	OFFSET	ELEV.	STATION	OFFSET	ELEV.
A1	404+76.09	106.58' LT.	861.00	407+56.37	117.01' LT.	862.50
A2	404+76.09	75.00' LT.	861.00	407+56.37	75.00' LT.	862.50
B1	404+17.74	106.58' LT.	883.04	408+15.90	122.96' LT.	885.92
B2	404+17.74	75.00' LT.	883.04	408+15.90	75.00' LT.	885.92
W1	403+99.49	106.58' RT.	889.64	———	———	———
W2	———	———	———	———	———	———

BERM SLOPE ELEVATIONS REFLECT THE GRADING SURFACE

REVETMENT LAYOUT:

- (R1) 404+72.40, 0.00' LT., END CHANNEL LINING
- (R2) 405+46.37, 0.00' LT., END CHANNEL LINING
- (R3) 405+51.40, 20.46' LT., END CHANNEL LINING
- (R4) 405+47.73, 45.97' LT., END CHANNEL LINING
- (R5) 405+11.33, 106.58' LT., END CHANNEL LINING
- (R6) 404+67.24, 106.58' LT., END CHANNEL LINING
- (R7) 404+67.24, 75.00' LT., END CHANNEL LINING
- (R8) 404+72.40, 75.00' LT., END CHANNEL LINING
- (R9) 406+13.01, 0.00' LT., END CHANNEL LINING
- (R10) 406+87.74, 0.00' LT., END CHANNEL LINING
- (R11) 406+87.74, 110.15' LT., END CHANNEL LINING
- (R12) 406+52.09, 106.58' LT., END CHANNEL LINING
- (R13) 406+06.96, 106.58' LT., END CHANNEL LINING
- (R14) 406+12.90, 85.95' LT., END CHANNEL LINING



SITE PLAN

ALL DIMENSIONS IN FEET UNLESS NOTED OTHERWISE

N

0 ENGLISH 60
SCALE IN FEET

NOTES:

THE EXISTING BRIDGE WAS SURVEYED APPROXIMATELY 2.67' NORTH OF STATIONS SHOWN ON THE EXISTING PLANS. THE EXISTING BRIDGE WAS DRAWN PER EXISTING PLAN DIMENSIONS AND BEST-FIT TO THE SURVEYED BRIDGE.

AN IOWA DNR FLOOD PLAIN PERMIT IS REQUIRED. SNYDER AND ASSOCIATES WILL SUBMIT THE APPLICATION AND PLACE THE PERMIT IN THE PW REGULATORY PERMITS SUBDIRECTORY FOLDER UPON RECEIPT.

REQUIREMENTS FOR A STATE WATER TRAIL OR PADDLING ROUTE MAY BE APPLICABLE. WALNUT CREEK IN THE PROJECT AREA IS DESIGNATED "UNDER DEVELOPMENT" AS A PADDLING ROUTE. PRIOR TO THE BID LETTING DATE A CHECK SHOULD BE MADE AS TO THE STATUS OF THE ROUTE. IF WALNUT CREEK IS DESIGNATED AS A PADDLING ROUTE THE APPLICABLE SIGNAGE PLAN NOTES AND BID ITEMS SHOULD BE ADDED TO THE PLAN SET AS NECESSARY. NOTIFICATION TO THE DNR WITH THE PROJECT DETAILS WILL ALSO BE REQUIRED.

ALL REVETMENT AND EROSION STONE IS EMBEDDED.

UTILITY LEGEND

--G-HP--	GAS
--San.--	SANITARY SEWER
--SAN.2--	SANITARY SEWER
--W--	WATER

UTILITIES SHOWN ON THIS SHEET ARE FOR INFORMATION ONLY, SEE ROAD DESIGN SHEETS FOR FINAL UTILITY INFORMATION.

SHUCK-BRITSON

PRELIMINARY

DESIGN FOR 0° SKEW

408'-6 X VAR. CONTINUOUS I-BEAM BRIDGE WIDENING TO 408'-6 X VAR.

57'-3 END SPANS — 4 - 73'-6 INTERIOR SPANS

SITE PLAN - SB/WB

STATION 406+16.82, 42.00' LT. (℄ I-35/80) — MAY, 2022

POLK COUNTY

IOWA DEPARTMENT OF TRANSPORTATION

DESIGN SHEET NO. 2 OF 5 — FILE NO. 32251 — DESIGN NO. 0725

DESIGN TEAM SMK/JAG/SR — S.B.I. NO. 121.0240.01C — POLK COUNTY — PROJECT NUMBER IM-080-3(266)125--13-77 — SHEET NUMBER V.2

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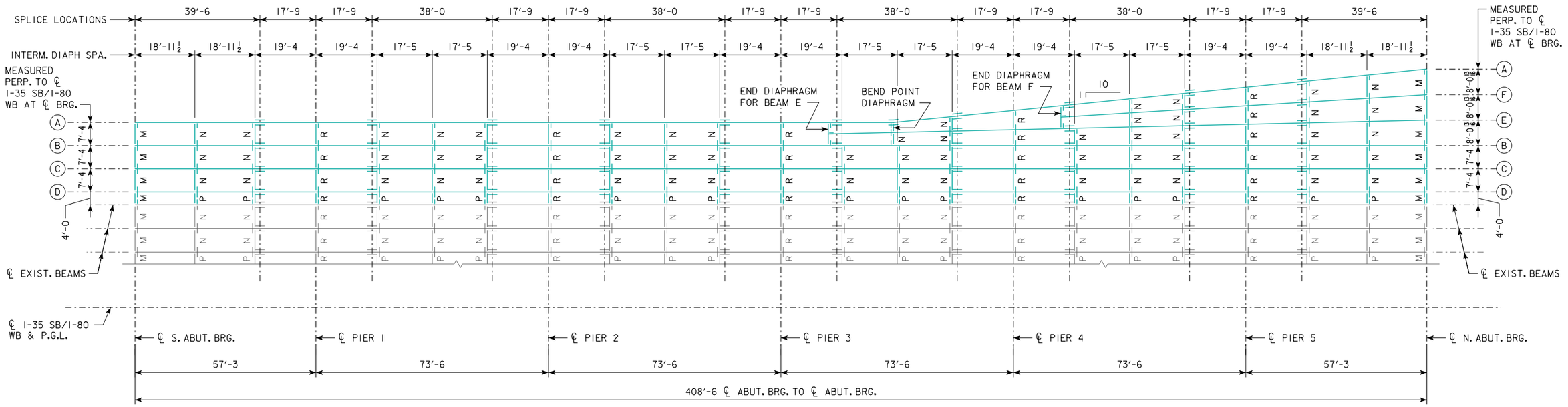

N

CONCEPTUAL FRAMING PLAN

M - DENOTES MC18x42.7 ABUTMENT DIAPHRAGM
N - DENOTES MC18x42.7 INTERMEDIATE DIAPHRAGM
P - DENOTES WI6x36 INTERMEDIATE DIAPHRAGM
R - DENOTES W24x68 PIER DIAPHRAGM

PRELIMINARY

DESIGN FOR 0° SKEW

408′-6 X VAR. CONTINUOUS I-BEAM BRIDGE WIDENING TO 408′-6 X VAR.

57′-3 END SPANS — 4 - 73′-6 INTERIOR SPANS

FRAMING PLAN - SB/WB

STATION 406+16.82, 42.00′ LT. (℄ I-35/80) — MAY, 2022

POLK COUNTY

IOWA DEPARTMENT OF TRANSPORTATION

DESIGN SHEET NO. 3 OF 5 — FILE NO. 32251 — DESIGN NO. 0725

SHUCK-BRITSON

DESIGN TEAM SMK/JAG/SR | S.B.I. NO. 121.0240.01C | POLK COUNTY | PROJECT NUMBER IM-080-3(266)125--13-77 | SHEET NUMBER V.3

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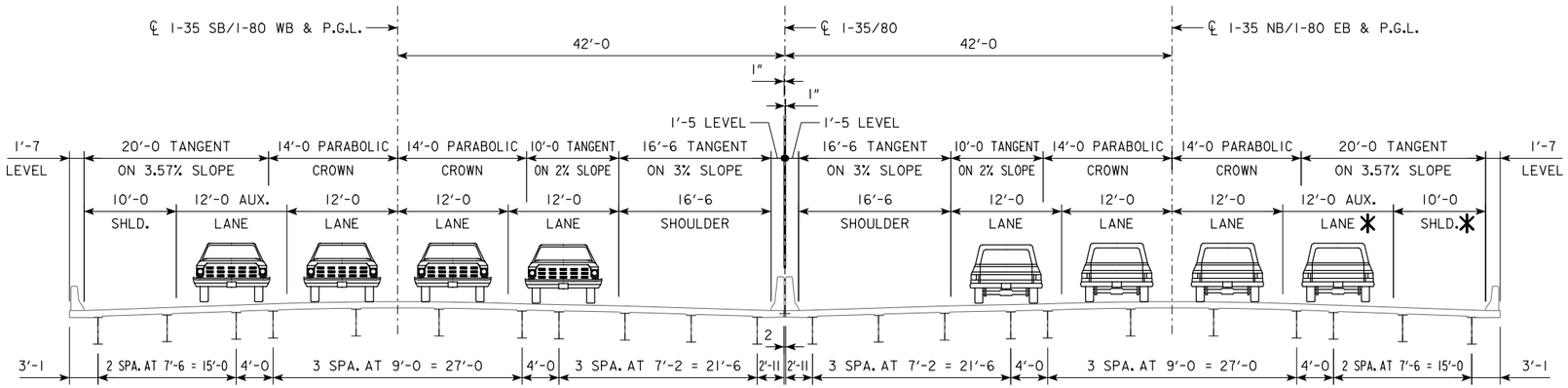
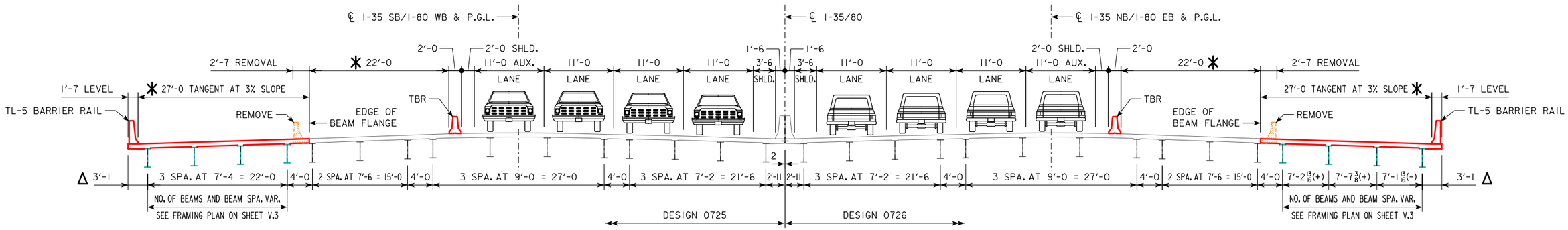


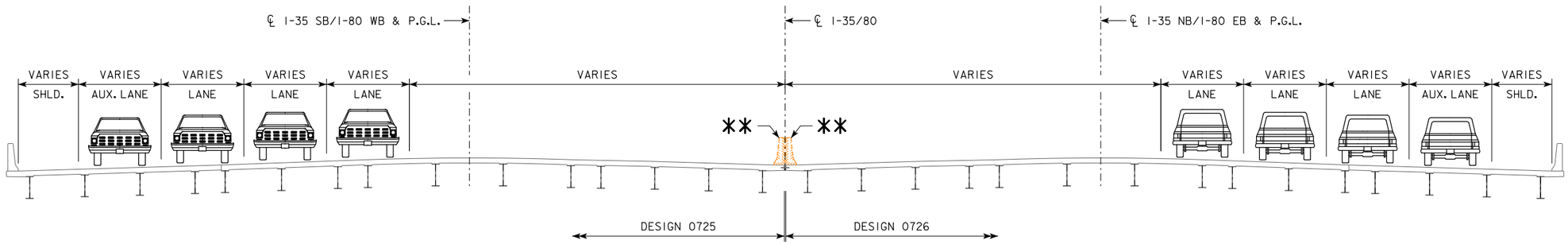
EXISTING I-35/80 TYPICAL SECTION

(LOOKING NORTH; AT SOUTH ABUTMENT)



STAGE 1A

(LOOKING NORTH; AT SOUTH ABUTMENT)



STAGE 2B

(LOOKING NORTH; AT SOUTH ABUTMENT)

PRELIMINARY

DESIGN FOR 0° SKEW

408'-6 X VAR. CONTINUOUS I-BEAM BRIDGE WIDENING TO 408'-6 X VAR.

57'-3 END SPANS — 4 - 73'-6 INTERIOR SPANS

STAGING

STATION 406+16.82, 42.00' LT. (℄ I-35/80) — MAY, 2022

POLK COUNTY

IOWA DEPARTMENT OF TRANSPORTATION

DESIGN SHEET NO. 4 OF 5 — FILE NO. 32251 — DESIGN NO. 0725

STAGING NOTES:

STAGE NUMBERING SHOWN CORRESPONDS WITH THE STAGES IN THE ROADWAY PLANS.

SEE TRAFFIC STAGING SHEETS IN THESE PLANS FOR LOCATION OF TBR.

Δ PERPENDICULAR TO EDGE OF DECK

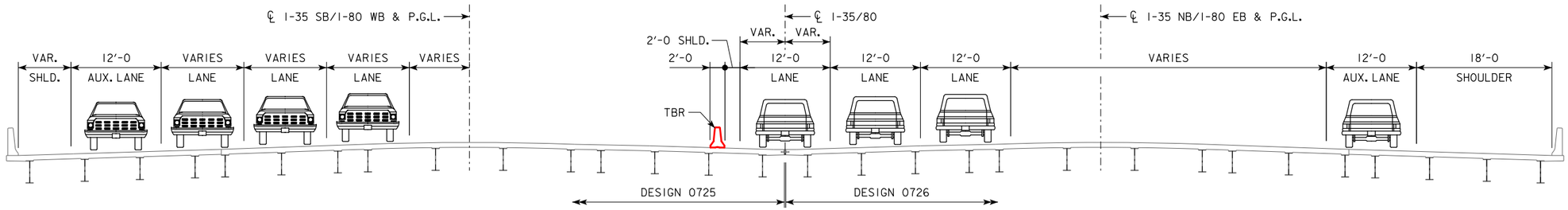
✱ DIMENSION VARIES THROUGHOUT BRIDGE

NOTE:
TBR = TEMPORARY BARRIER RAIL

✱✱ REMOVE EXISTING MEDIAN BARRIER RAILS FLUSH WITH TOP OF CONCRETE DECK. GRIND EXISTING REBAR FLUSH WITH DECK. PRESERVE EXISTING MEDIAN SLOTTED DRAIN.

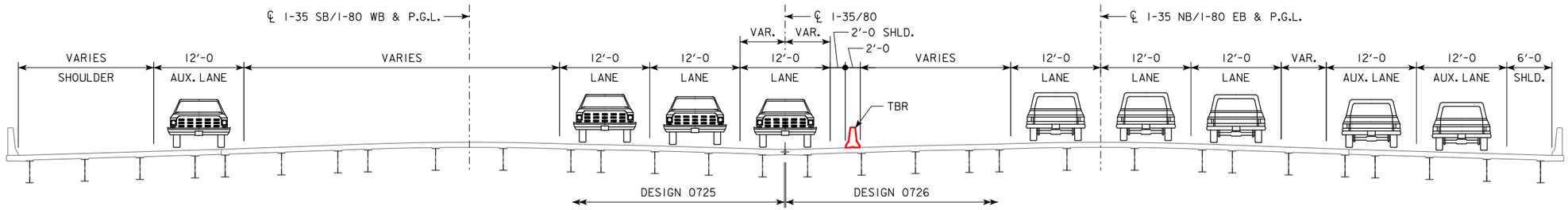
SHUCK-BRITSON

DESIGN TEAM SMK/JAG/SR	S.B.I. NO. 121.0240.01C	POLK COUNTY	PROJECT NUMBER IM-080-3(266)125--13-77	SHEET NUMBER V.4



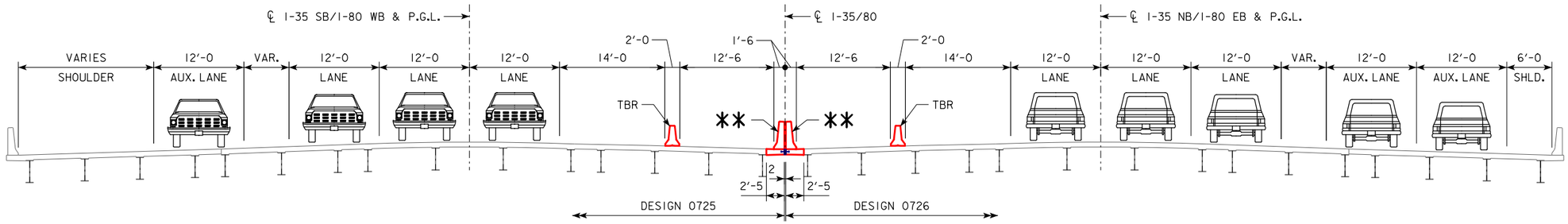
STAGE 2C

(LOOKING NORTH; AT SOUTH ABUTMENT)



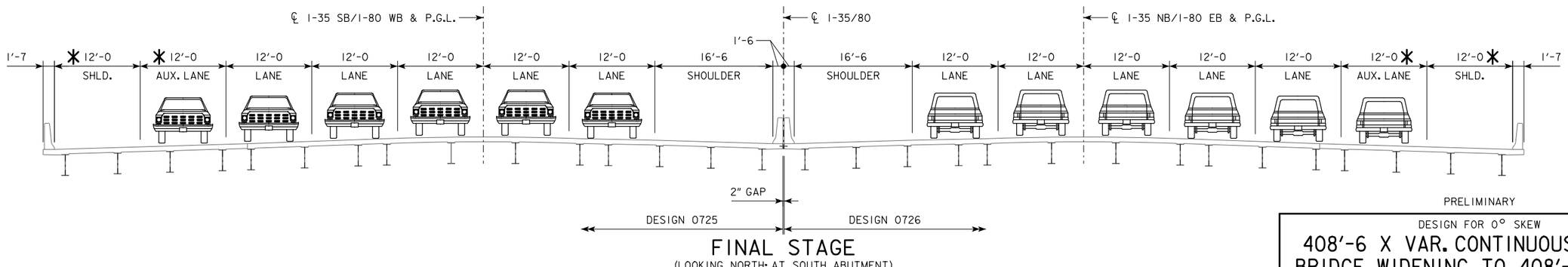
STAGE 2D

(LOOKING NORTH; AT SOUTH ABUTMENT)



STAGE 2E

(LOOKING NORTH; AT SOUTH ABUTMENT)



FINAL STAGE

(LOOKING NORTH; AT SOUTH ABUTMENT)

PRELIMINARY

STAGING NOTES:

STAGE NUMBERING SHOWN CORRESPONDS WITH THE STAGES IN THE ROADWAY PLANS.

SEE TRAFFIC STAGING SHEETS IN THESE PLANS FOR LOCATION OF TBR.

* DIMENSION VARIES THROUGHOUT BRIDGE

NOTE:
TBR = TEMPORARY BARRIER RAIL

** REMOVE EXISTING DECK TO EDGE OF EXTERIOR BEAM FLANGE. REMOVE EXISTING MEDIAN SLOTTED DRAIN. PRESERVE EXISTING TRANSVERSE DECK REINFORCING. REPLACE DECK AND MEDIAN SLOTTED DRAIN. CONSTRUCT NEW TL-5 BARRIER RAIL.

SHUCK-BRITSON

DESIGN FOR 0° SKEW

408′-6 X VAR. CONTINUOUS I-BEAM BRIDGE WIDENING TO 408′-6 X VAR.

57′-3 END SPANS — 4 - 73′-6 INTERIOR SPANS

STAGING

STATION 406+16.82, 42.00′ LT. (℄ I-35/80) — MAY, 2022

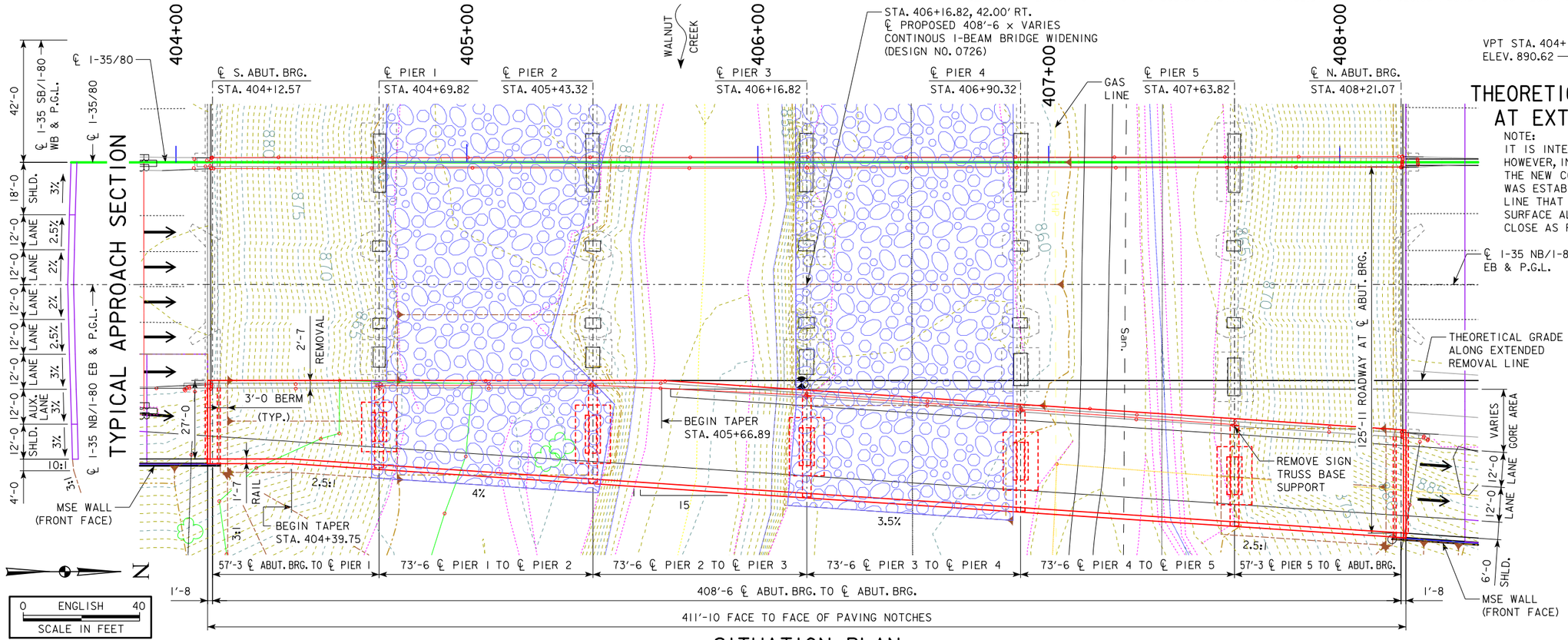
POLK COUNTY

IOWA DEPARTMENT OF TRANSPORTATION

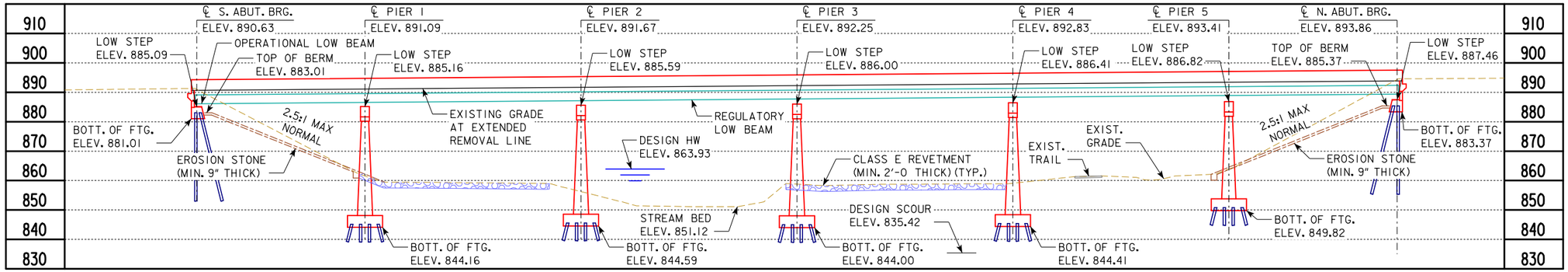
DESIGN SHEET NO. 5 OF 5 — FILE NO. 32251 — DESIGN NO. 0725

DESIGN TEAM SMK/JAG/SR — S.B.I. NO. 121.0240.01C — POLK COUNTY — PROJECT NUMBER IM-080-3(266)125--13-77 — SHEET NUMBER V.5

BENCHMARK BM55: NORTHING 7497393.85 EASTING 1848482.57 ELEVATION 929.83 FOUND BRASS PLUG IN CONCRETE/NORTH SIDE OF HICKMAN ROAD



SITUATION PLAN



THEORETICAL GRADE N.B. I-35/80 AT EXTENDED REMOVAL LINE

NOTE:
IT IS INTENDED TO U.A.C. THE EXISTING GRADE. HOWEVER, IN ORDER TO SHOW ELEVATIONS FOR THE NEW CONSTRUCTION, A THEORETICAL GRADE WAS ESTABLISHED ALONG THE EXTENDED REMOVAL LINE THAT ATTEMPTS TO MATCH THE ROADWAY SURFACE ALONG THE EXTENDED REMOVAL LINE AS CLOSE AS PRACTICABLE.

HYDRAULIC DATA

DRAINAGE AREA = 52.8 SQ. MI.
STREAM SLOPE = 7.0 FT./MI.
AVG. LOW WATER STAGE = 852.0

Q_{50} = 13,020 CFS
STAGE = 863.27
REGULATORY LOW BEAM = 887.17
BACKWATER = 1.73 FT.
AVG. BRIDGE VELOCITY = 10.9 FPS

Q_{100} = 16,110 CFS
STAGE = 863.93
OPERATIONAL LOW BEAM = 886.16
BACKWATER = 2.45 FT.
AVG. BRIDGE VELOCITY = 12.1 FPS

Q_{200} = 19,000 CFS
STAGE = 864.79
CALCULATED DESIGN SCOUR = 835.42

Q_{500} = 22,605 CFS
STAGE = 865.83
AVG. BRIDGE VELOCITY = 13.8 FPS
CALCULATED CHECK SCOUR = 833.17

ROADWAY OVERTOP 889.95
STA. 402+50

EXTREME HW STAGE = 863.0
DATE = UNKNOWN

50, 100 & 500 YR. STAGES AND DISCHARGES FROM POLK COUNTY F.I.S., DATED FEBRUARY 1, 2019. F.I.S. DATUM 0.00 FT. ABOVE PROJECT DATUM.

LOCATION

I-35 NB AND I-80 EB OVER
WALNUT CREEK & BIKE TRAIL
T-79N R-25W
SECTION 32
WALNUT TOWNSHIP
POLK COUNTY
FHWA NO. 41280
BRIDGE MAINT. NO. 7724.8R080
LATITUDE 41.611276°
LONGITUDE -93.776696°

I-35 NB/I-80 EB TRAFFIC ESTIMATE

2019 AADT	56,400	V.P.D.
2042 AADT	83,000	V.P.D.
2042 DHV	8,000	V.P.H.
TRUCKS	14	%
TOTAL DESIGN ESALs	-	

SHUCK-BRITSON

LONGITUDINAL SECTION ALONG I-35 NB/ I-80 EB AT EXTENDED REMOVAL LINE

NOTES:

THIS DESIGN IS FOR THE WIDENING OF THE EXISTING 408'-6 X VAR. CONTINUOUS I-BEAM BRIDGE, POLK DESIGN NO. 787, FHWA NO. 41280, MAINT. NO. 7724.8R080.
ALL OFFSETS ARE MEASURED FROM ℄ I-35/80.
ALL DIMENSIONS ARE IN FEET U.N.O.
BEAM TYPE - CONTINUOUS I-BEAM, DEPTH = 3'-0.
TL-5 BRIDGE RAILING PROPOSED.
PIER TYPE - TEE PIER.
BERM SLOPES TO BE CONFIRMED DURING FINAL DESIGN.
SEE SHEET V.7 FOR ADDITIONAL NOTES.
SEE SHEET V.8 FOR FRAMING PLAN AND V.9-V.10 FOR STAGING.

UTILITY LEGEND

--G-HP--	GAS
--San.--	SANITARY SEWER
--SAN.2--	SANITARY SEWER
--W--	WATER

UTILITIES SHOWN ON THIS SHEET ARE FOR INFORMATION ONLY, SEE ROAD DESIGN SHEETS FOR FINAL UTILITY INFORMATION.

HYDRAULIC DESIGN

LICENSED PROFESSIONAL ENGINEER
David J. Mulholland
P14746
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.

David J. Mulholland 05/24/2022
Signature Date
David J. Mulholland
Printed or Typed Name

My license renewal date is December 31, 2022

Pages or sheets covered by this seal: SHEETS V.6 AND V.7 (HYDRAULIC DESIGN, CHANNEL GRADING, REVETMENT)

PRELIMINARY

DESIGN FOR 0° SKEW

408'-6 X VAR. CONTINUOUS I-BEAM BRIDGE WIDENING TO 408'-6 X VAR.

57'-3 END SPANS 4 - 73'-6 INTERIOR SPANS

SITUATION PLAN - NB/EB

STATION 406+16.82, 42.00' RT. (℄ I-35/80) MAY, 2022

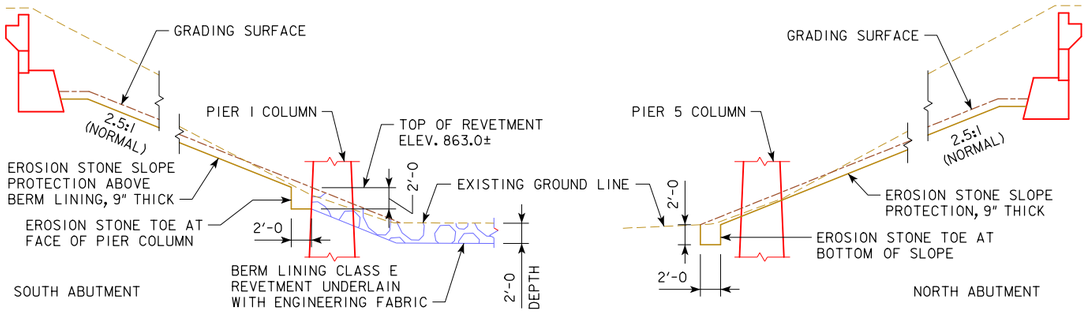
POLK COUNTY

IOWA DEPARTMENT OF TRANSPORTATION

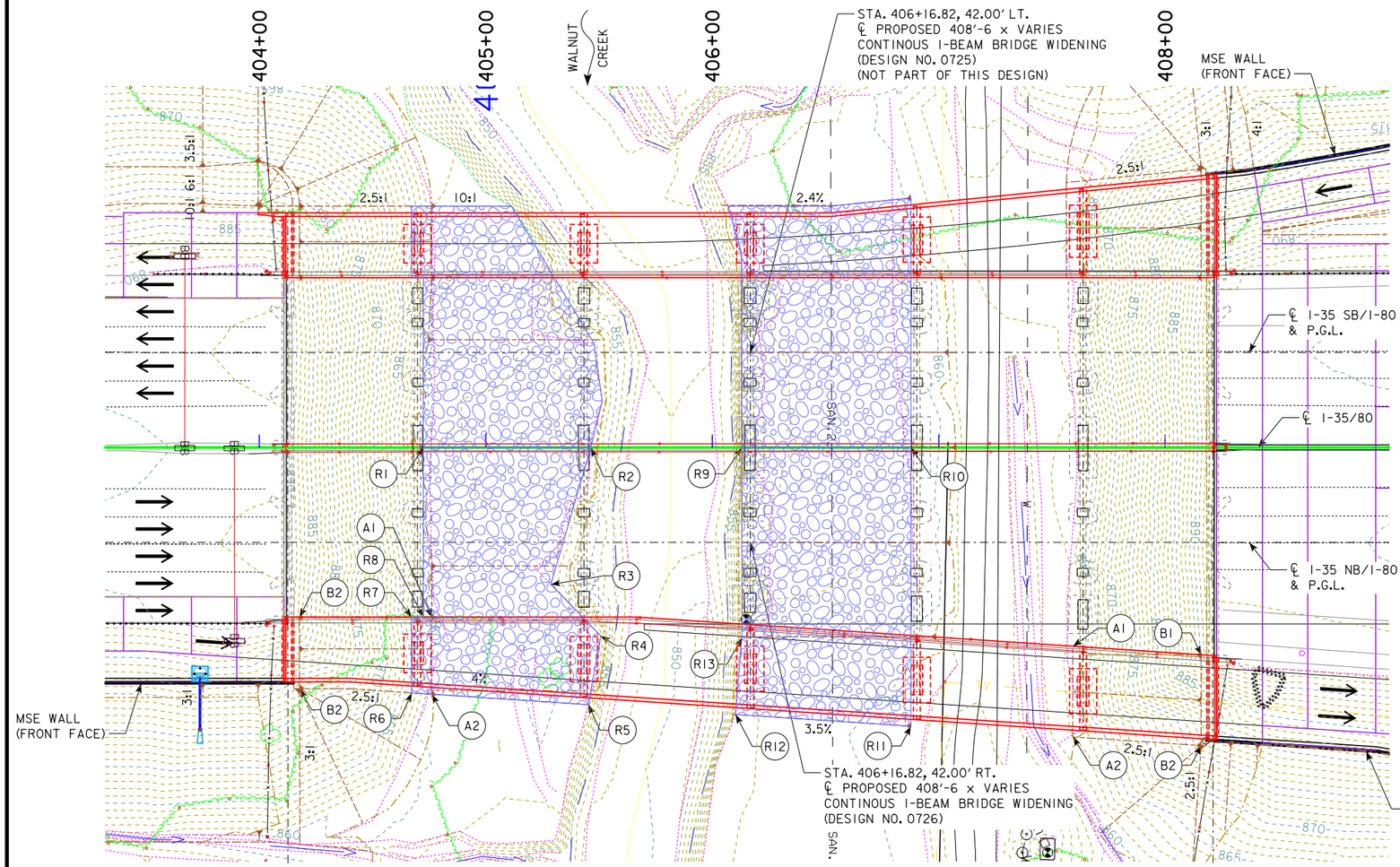
DESIGN SHEET NO. 1 OF 5 FILE NO. 32251 DESIGN NO. 0726

DESIGN TEAM SMK/JAG/CLS S.B.I. NO. 121.0240.01C | POLK COUNTY | PROJECT NUMBER IM-080-3(271)125--13-77 | SHEET NUMBER V.6

BENCHMARK BM55: NORTHING 7497393.85 EASTING 1848482.57 ELEVATION 929.83 FOUND BRASS PLUG IN CONCRETE/NORTH SIDE OF HICKMAN ROAD



SECTION THRU EROSION STONE AND EMBEDDED REVETMENT BERM



SITE PLAN

ALL DIMENSIONS IN FEET UNLESS NOTED OTHERWISE

UTILITY LEGEND	
--G-HP--	GAS
--San.--	SANITARY SEWER
--SAN.2--	SANITARY SEWER
--W--	WATER

UTILITIES SHOWN ON THIS SHEET ARE FOR INFORMATION ONLY, SEE ROAD DESIGN SHEETS FOR FINAL UTILITY INFORMATION.

N

0 ENGLISH 60
SCALE IN FEET

ESTIMATED BERM ARMORING QUANTITIES

LOCATION	REVETMENT CL. E (TON)	EROSION STONE (TON)	ENGINEERING FABRIC (SY)	EXCAVATION, CLASS 10 CHANNEL (CY)
BERM LINING - SOUTH ABUTMENT	———	77.4	230.4	48.4
BERM LINING - NORTH ABUTMENT	———	110.6	320.1	69.1
STONE TOE - SOUTH ABUTMENT	———	8.0	12.1	5.0
STONE TOE - NORTH ABUTMENT	———	9.4	14.5	5.9
CHANNEL LINING - SOUTH	920.3	———	949.7	575.2
CHANNEL LINING - NORTH	1073.3	———	1093.6	670.8
TOTALS	1993.6	205.4	2620.4	1374.4

EXCAVATION QUANTITY CALCULATED FROM GRADING SURFACE.
REVETMENT, CLASS E AND EROSION STONE ESTIMATED AT 1.6 TON/CY.

BERM SLOPE LOCATION TABLE

POINTS	SOUTH ABUTMENT			NORTH ABUTMENT		
	STATION	OFFSET	ELEV.	STATION	OFFSET	ELEV.
A1	404+76.09	75.00' RT.	860.00	407+59.24	87.82' RT.	862.75
A2	404+76.09	109.01' RT.	860.00	407+59.24	127.89' RT.	862.75
B1	404+17.74	75.00' RT.	883.01	408+15.90	91.60' RT.	885.37
B2	404+17.74	106.58' RT.	883.01	408+15.90	131.67' RT.	885.37
W1	———	———	———	———	———	———
W2	———	———	———	———	———	———

BERM SLOPE ELEVATIONS REFLECT THE GRADING SURFACE

REVETMENT LAYOUT:

- (R1) 404+72.40, 0.00' RT., END CHANNEL LINING
- (R2) 405+46.37, 0.00' RT., END CHANNEL LINING
- (R3) 405+28.72, 60.49' RT., END CHANNEL LINING
- (R4) 405+50.72, 83.23' RT., END CHANNEL LINING
- (R5) 405+45.22, 113.62' RT., END CHANNEL LINING
- (R6) 404+67.24, 108.42' RT., END CHANNEL LINING
- (R7) 404+67.24, 75.00' RT., END CHANNEL LINING
- (R8) 404+72.40, 75.00' RT., END CHANNEL LINING
- (R9) 406+13.01, 0.00' RT., END CHANNEL LINING
- (R10) 406+87.74, 0.00' RT., END CHANNEL LINING
- (R11) 406+87.74, 123.12' RT., END CHANNEL LINING
- (R12) 406+10.26, 117.96' RT., END CHANNEL LINING
- (R13) 406+13.11, 84.01' RT., END CHANNEL LINING

NOTES:

THE EXISTING BRIDGE WAS SURVEYED APPROXIMATELY 2.67' NORTH OF STATIONS SHOWN ON THE EXISTING PLANS. THE EXISTING BRIDGE WAS DRAWN PER EXISTING PLAN DIMENSIONS AND BEST-FIT TO THE SURVEYED BRIDGE.

AN IOWA DNR FLOOD PLAIN PERMIT IS REQUIRED. SNYDER AND ASSOCIATES WILL SUBMIT THE APPLICATION AND PLACE THE PERMIT IN THE PW REGULATORY PERMITS SUBDIRECTORY FOLDER UPON RECEIPT.

REQUIREMENTS FOR A STATE WATER TRAIL OR PADDLING ROUTE MAY BE APPLICABLE. WALNUT CREEK IN THE PROJECT AREA IS DESIGNATED "UNDER DEVELOPMENT" AS A PADDLING ROUTE. PRIOR TO THE BID LETTING DATE A CHECK SHOULD BE MADE AS TO THE STATUS OF THE ROUTE. IF WALNUT CREEK IS DESIGNATED AS A PADDLING ROUTE THE APPLICABLE SIGNAGE PLAN NOTES AND BID ITEMS SHOULD BE ADDED TO THE PLAN SET AS NECESSARY. NOTIFICATION TO THE DNR WITH THE PROJECT DETAILS WILL ALSO BE REQUIRED.

ALL REVETMENT AND EROSION STONE IS EMBEDDED.

PRELIMINARY

DESIGN FOR 0° SKEW

408'-6 X VAR. CONTINUOUS I-BEAM BRIDGE WIDENING TO 408'-6 X VAR.

57'-3 END SPANS — 4 - 73'-6 INTERIOR SPANS

SITE PLAN - NB/EB

STATION 406+16.82, 42.00' RT. (℄ I-35/80) — MAY, 2022

POLK COUNTY

IOWA DEPARTMENT OF TRANSPORTATION

DESIGN SHEET NO. 2 OF 5 — FILE NO. 32251 — DESIGN NO. 0726

SHUCK-BRITSON

DESIGN TEAM SMK/JAG/CLS	S.B.I. NO. 121.0240.01C	POLK COUNTY	PROJECT NUMBER IM-080-3(271)125--13-77	SHEET NUMBER V.7

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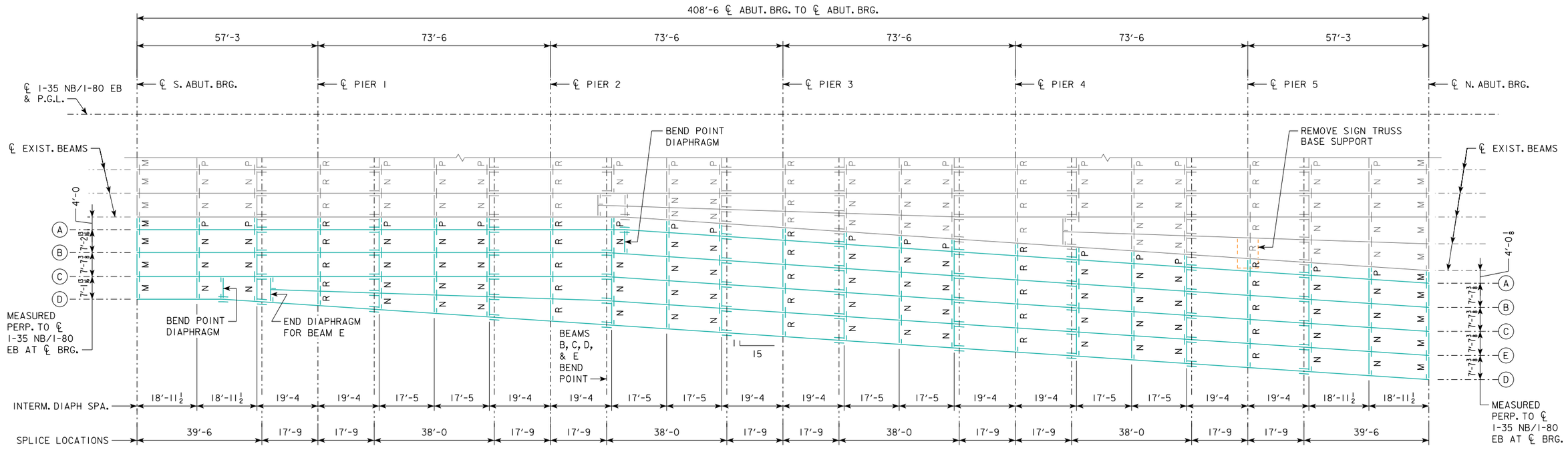

N

CONCEPTUAL FRAMING PLAN

M - DENOTES MCI8x42.7 ABUTMENT DIAPHRAGM
N - DENOTES MCI8x42.7 INTERMEDIATE DIAPHRAGM
P - DENOTES WI6x36 INTERMEDIATE DIAPHRAGM
R - DENOTES W24x68 PIER DIAPHRAGM

SHUCK-BRITSON

PRELIMINARY

DESIGN FOR 0° SKEW

408'-6 X VAR. CONTINUOUS I-BEAM BRIDGE WIDENING TO 408'-6 X VAR.

57'-3 END SPANS — 4 - 73'-6 INTERIOR SPANS

FRAMING PLAN - NB/EB

STATION 406+16.82, 42.00' RT. (℄ I-35/80) — MAY, 2022

POLK COUNTY

IOWA DEPARTMENT OF TRANSPORTATION

DESIGN SHEET NO. 3 OF 5 — FILE NO. 32251 — DESIGN NO. 0726

DESIGN TEAM SMK/JAG/CLS	S.B.I. NO. 121.0240.01C	POLK COUNTY	PROJECT NUMBER IM-080-3(271)125--13-77	SHEET NUMBER V.8

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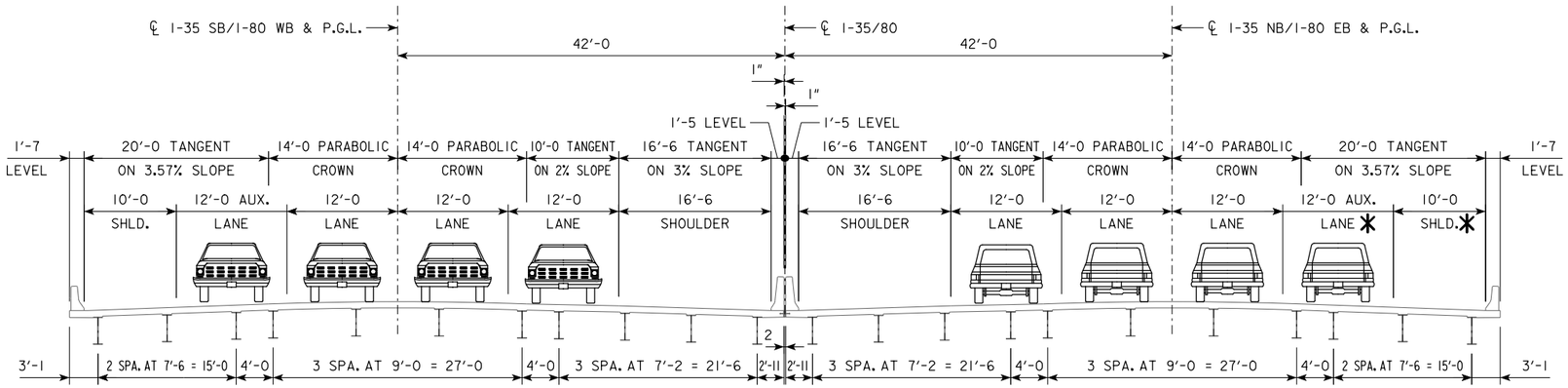
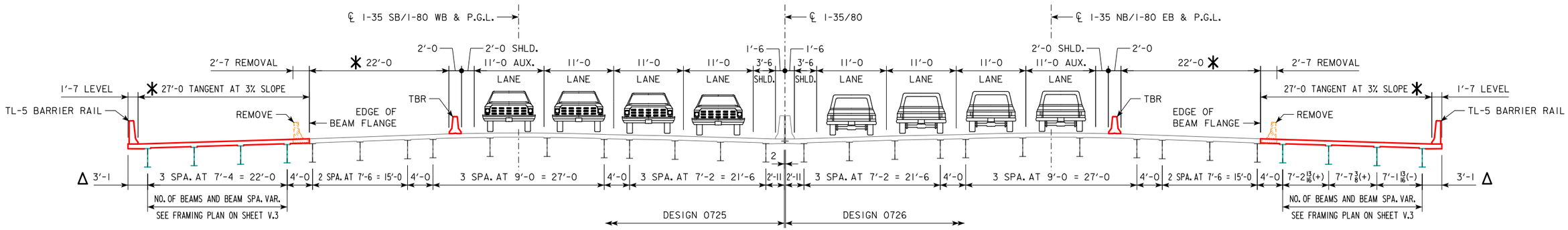


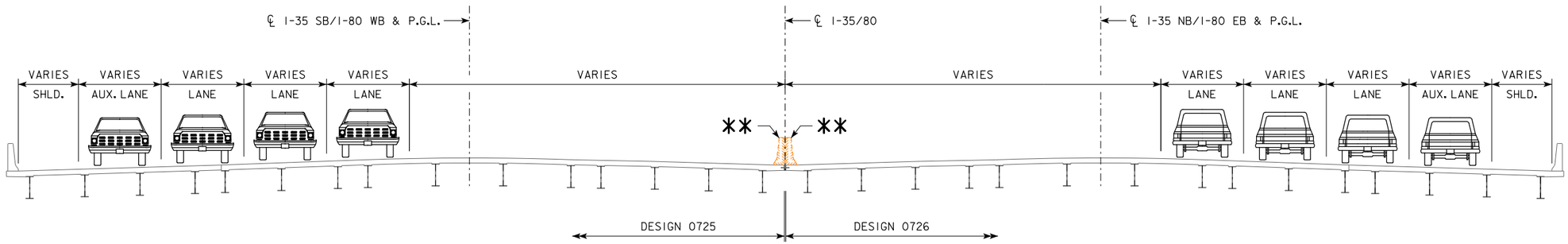
EXISTING I-35/80 TYPICAL SECTION

(LOOKING NORTH; AT SOUTH ABUTMENT)



STAGE 1A

(LOOKING NORTH; AT SOUTH ABUTMENT)



STAGE 2B

(LOOKING NORTH; AT SOUTH ABUTMENT)

STAGING NOTES:

STAGE NUMBERING SHOWN CORRESPONDS WITH THE STAGES IN THE ROADWAY PLANS.

SEE TRAFFIC STAGING SHEETS IN THESE PLANS FOR LOCATION OF TBR.

Δ PERPENDICULAR TO EDGE OF DECK

✱ DIMENSION VARIES THROUGHOUT BRIDGE

NOTE:
TBR = TEMPORARY BARRIER RAIL

✱✱ REMOVE EXISTING MEDIAN BARRIER RAILS FLUSH WITH TOP OF CONCRETE DECK. GRIND EXISTING REBAR FLUSH WITH DECK. PRESERVE EXISTING MEDIAN SLOTTED DRAIN.

SHUCK-BRITSON

PRELIMINARY

DESIGN FOR 0° SKEW

408'-6 X VAR. CONTINUOUS I-BEAM BRIDGE WIDENING TO 408'-6 X VAR.

57'-3 END SPANS — 4 - 73'-6 INTERIOR SPANS

STAGING

STATION 406+16.82, 42.00' RT. (℄ I-35/80) — MAY, 2022

POLK COUNTY

IOWA DEPARTMENT OF TRANSPORTATION

DESIGN SHEET NO. 4 OF 5 — FILE NO. 32251 — DESIGN NO. 0726

DESIGN TEAM SMK/JAG/CLS	S.B.I. NO. 121.0240.01C	POLK COUNTY	PROJECT NUMBER IM-080-3(271)125--13-77	SHEET NUMBER V.9

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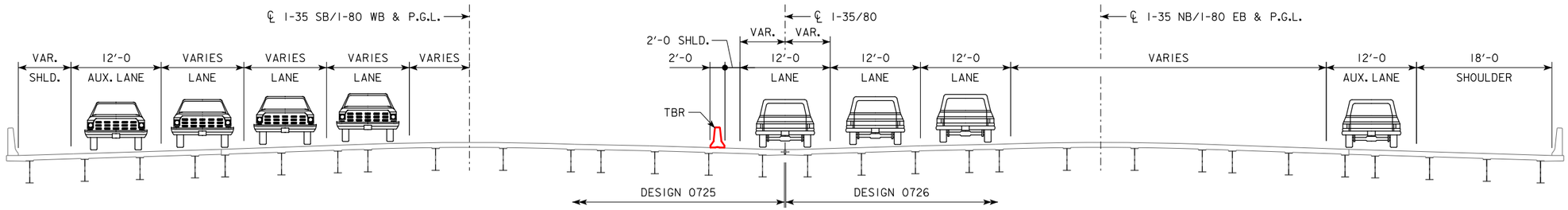
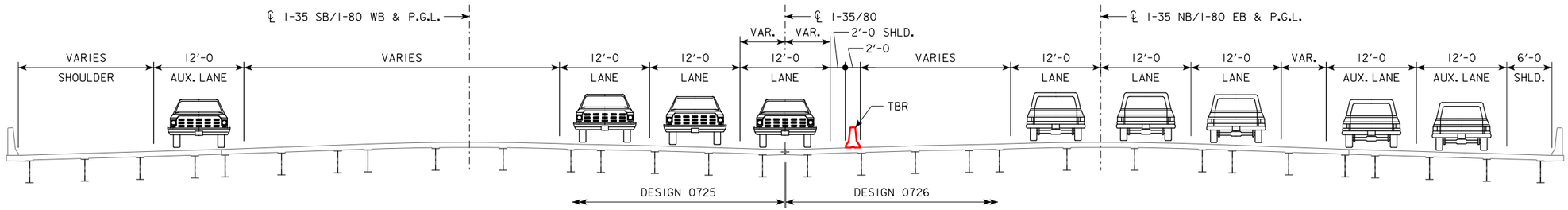


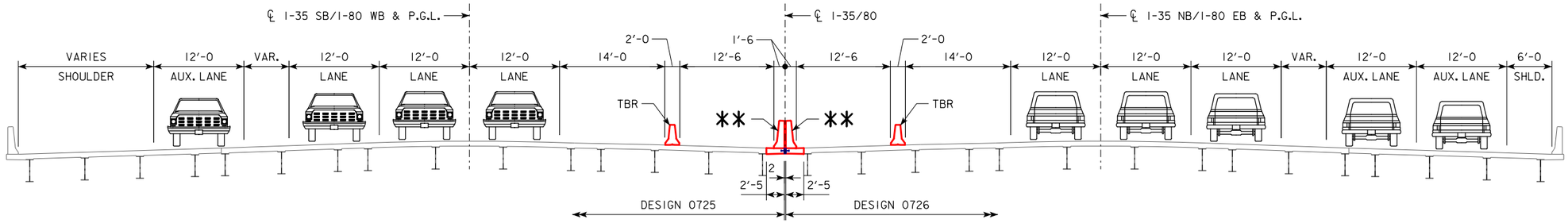
STAGE 2C

(LOOKING NORTH; AT SOUTH ABUTMENT)



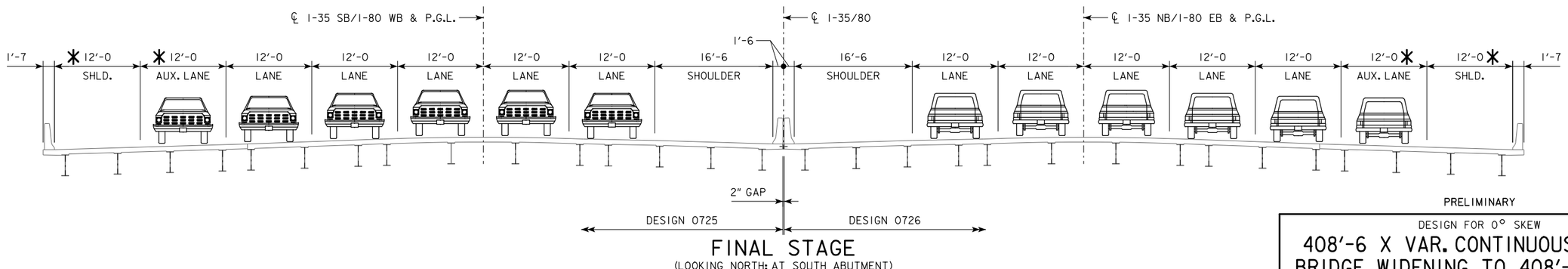
STAGE 2D

(LOOKING NORTH; AT SOUTH ABUTMENT)



STAGE 2E

(LOOKING NORTH; AT SOUTH ABUTMENT)



FINAL STAGE

(LOOKING NORTH; AT SOUTH ABUTMENT)

PRELIMINARY

STAGING NOTES:

STAGE NUMBERING SHOWN CORRESPONDS WITH THE STAGES IN THE ROADWAY PLANS.

SEE TRAFFIC STAGING SHEETS IN THESE PLANS FOR LOCATION OF TBR.

* DIMENSION VARIES THROUGHOUT BRIDGE

NOTE:
TBR = TEMPORARY BARRIER RAIL

** REMOVE EXISTING DECK TO EDGE OF EXTERIOR BEAM FLANGE. REMOVE EXISTING MEDIAN SLOTTED DRAIN. PRESERVE EXISTING TRANSVERSE DECK REINFORCING. REPLACE DECK AND MEDIAN SLOTTED DRAIN. CONSTRUCT NEW TL-5 BARRIER RAIL.

SHUCK-BRITSON

DESIGN FOR 0° SKEW

408′-6 X VAR. CONTINUOUS I-BEAM BRIDGE WIDENING TO 408′-6 X VAR.

57′-3 END SPANS — 4 - 73′-6 INTERIOR SPANS

STAGING

STATION 406+16.82, 42.00′ RT. (℄ I-35/80) — MAY, 2022

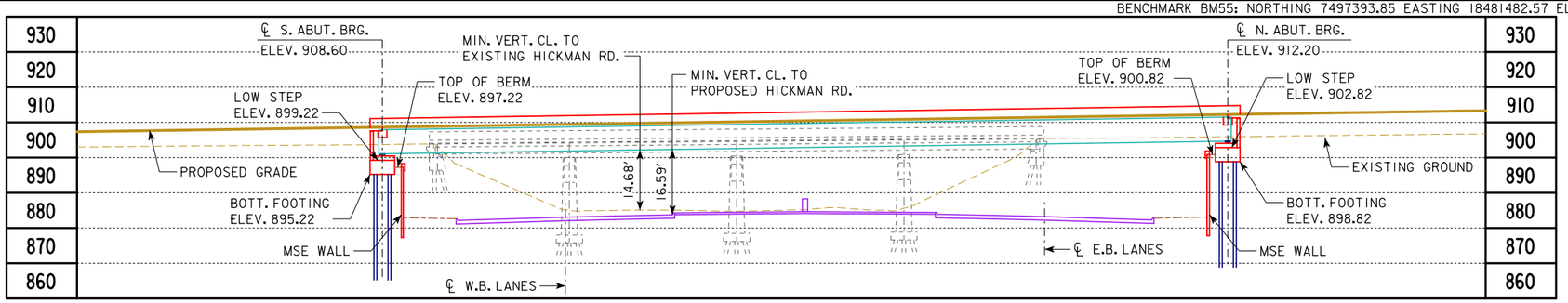
POLK COUNTY

IOWA DEPARTMENT OF TRANSPORTATION

DESIGN SHEET NO. 5 OF 5 — FILE NO. 32251 — DESIGN NO. 0726

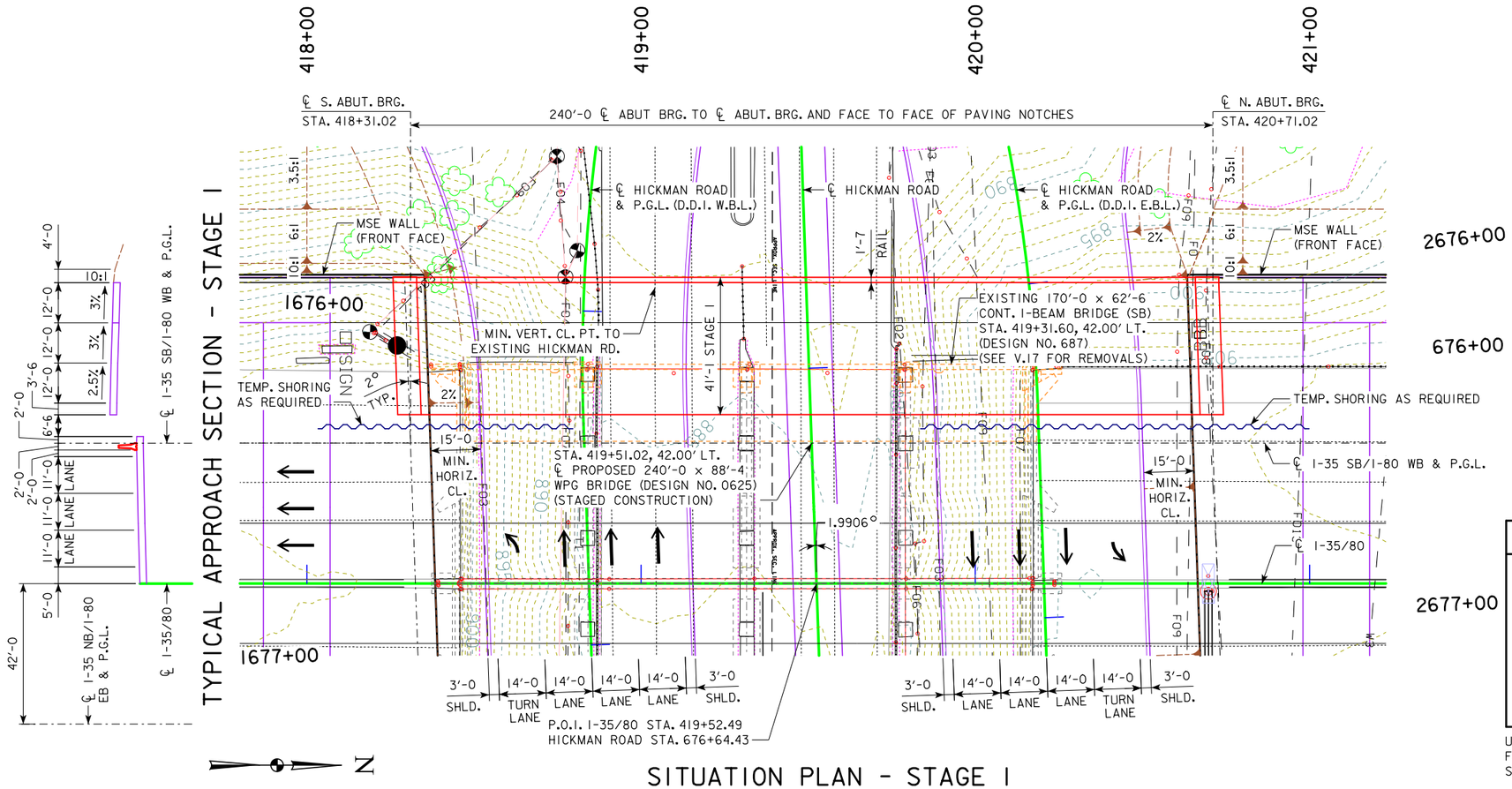
DESIGN TEAM SMK/JAG/CLS — S.B.I. NO. 121.0240.01C — POLK COUNTY — PROJECT NUMBER IM-080-3(271)125--13-77 — SHEET NUMBER V.10

BENCHMARK BM55: NORTHING 7497393.85 EASTING 18481482.57 ELEVATION 929.83 FOUND BRASS PLUG IN CONCRETE/NORTH SIDE OF HICKMAN ROAD

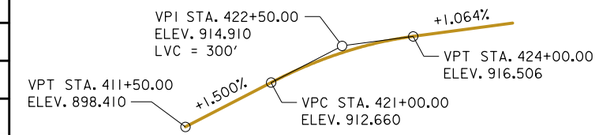


LONGITUDINAL SECTION ALONG ℄ I-35 SB/I-80 WB

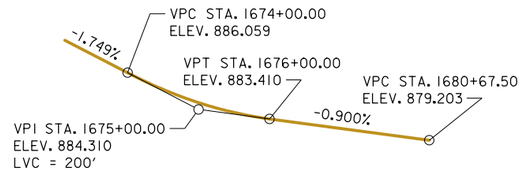
TOP OF BRIDGE DECK AT ℄ I-35 SB/I-80 WB IS 0.03' BELOW THE PROFILE GRADE TO ACOUNT FOR THE PARABOLIC CROWN.



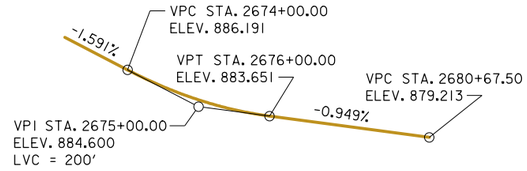
SITUATION PLAN - STAGE I



PROPOSED PROFILE GRADE I-35/80



PROPOSED PROFILE GRADE HICKMAN ROAD D.D.I. W.B. LANES



PROPOSED PROFILE GRADE HICKMAN ROAD D.D.I. E.B. LANES

NOTES:

THIS DESIGN IS FOR THE REPLACEMENT OF THE EXISTING 170'-0 X 62'-6 CONTINUOUS I-BEAM BRIDGE, POLK DESIGN NO. 687, FHWA NO. 041310, MAINT. NO. 7725.IL080.
SEMI-INTEGRAL ABUTMENTS PROPOSED WITH NON-STANDARD WIDTH (7'-0), NON-STANDARD DEPTH (4'-0), NON-BATTERED PILING, AND TIE-ROD ANCHORS FOR LATERAL RESISTANCE.
ALL OFFSETS ARE MEASURED FROM ℄ I-35/80.
ALL DIMENSIONS ARE IN FEET U.N.O.
BEAM TYPE - WPG, DEPTH = 6'-10.
TL-5 BRIDGE RAILING PROPOSED.
BRIDGE AESTHETICS TO BE INCORPORATED DURING FINAL DESIGN.
SEE BRIDGE CROSS SECTION AND STAGING ON SHEETS V.17-V.18.

UTILITY LEGEND

--E3--	ELECTRIC
--FO--	FIBER OPTIC
--FO2--	FIBER OPTIC
--FO3--	FIBER OPTIC
--FO4--	FIBER OPTIC
--FO6--	FIBER OPTIC
--FO8--	FIBER OPTIC
--FO9--	FIBER OPTIC
--TI--	TELEPHONE
--W3--	WATER
	POWER POLE

UTILITIES SHOWN ON THIS SHEET ARE FOR INFORMATION ONLY, SEE ROAD DESIGN SHEETS FOR FINAL UTILITY INFORMATION. PRELIMINARY

LOCATION

I-35 SB AND I-80 WB OVER U.S. 6 (HICKMAN ROAD)
T-79N R-25W
SECTIONS 29 & 32
WALNUT TOWNSHIP
POLK COUNTY
EXISTING FHWA NO. 041310
NEW FHWA NO. 41311
BRIDGE MAINT. NO. 7725.IL080
LATITUDE 41.614938°
LONGITUDE -93.776987°

0 ENGLISH 40
SCALE IN FEET

MINIMUM VERTICAL CLEARANCE TO EXISTING HICKMAN ROAD

OVERHEAD STATION = 419+04.15, OFFSET 88.50' LT.
OVERHEAD ELEVATION = 908.51
DEPTH OF SUPERSTRUCTURE = 7.58'
LIVE LOAD DEFLECTION = 0.30'
UNDERPASS STATION (℄ HICKMAN RD.) = 675+74.30, OFFSET 45.23' RT.
UNDERPASS ELEVATION = 885.94
MINIMUM VERTICAL CLEARANCE = 14.68'

SHUCK-BRITSON

HICKMAN ROAD TRAFFIC ESTIMATE

2019 AADT	32,500	V.P.D.
2042 AADT	49,600	V.P.D.
2042 DHV	4,530	V.P.H.
TRUCKS	4	%
TOTAL DESIGN ESALs	-	

I-35 SB/I-80 WB TRAFFIC ESTIMATE

2019 AADT	49,700	V.P.D.
2042 AADT	73,200	V.P.D.
2042 DHV	6,560	V.P.H.
TRUCKS	14	%
TOTAL DESIGN ESALs	-	

DESIGN FOR 2° SKEW (R.A.)

240'-0 X 41'-1 WELDED PLATE GIRDER BRIDGE

240'-0 SPAN

SITUATION PLAN - STAGE I SB/WB

STATION 419+51.02, 42.00' LT. (℄ I-35/80) MAY, 2022

POLK COUNTY

IOWA DEPARTMENT OF TRANSPORTATION

DESIGN SHEET NO. 1 OF 8 FILE NO. 32251 DESIGN NO. 0625

DESIGN TEAM SMK/JAG/SR S.B.I. NO. 121.0240.01C POLK COUNTY PROJECT NUMBER IM-080-3(267)125--13-77 SHEET NUMBER V.11

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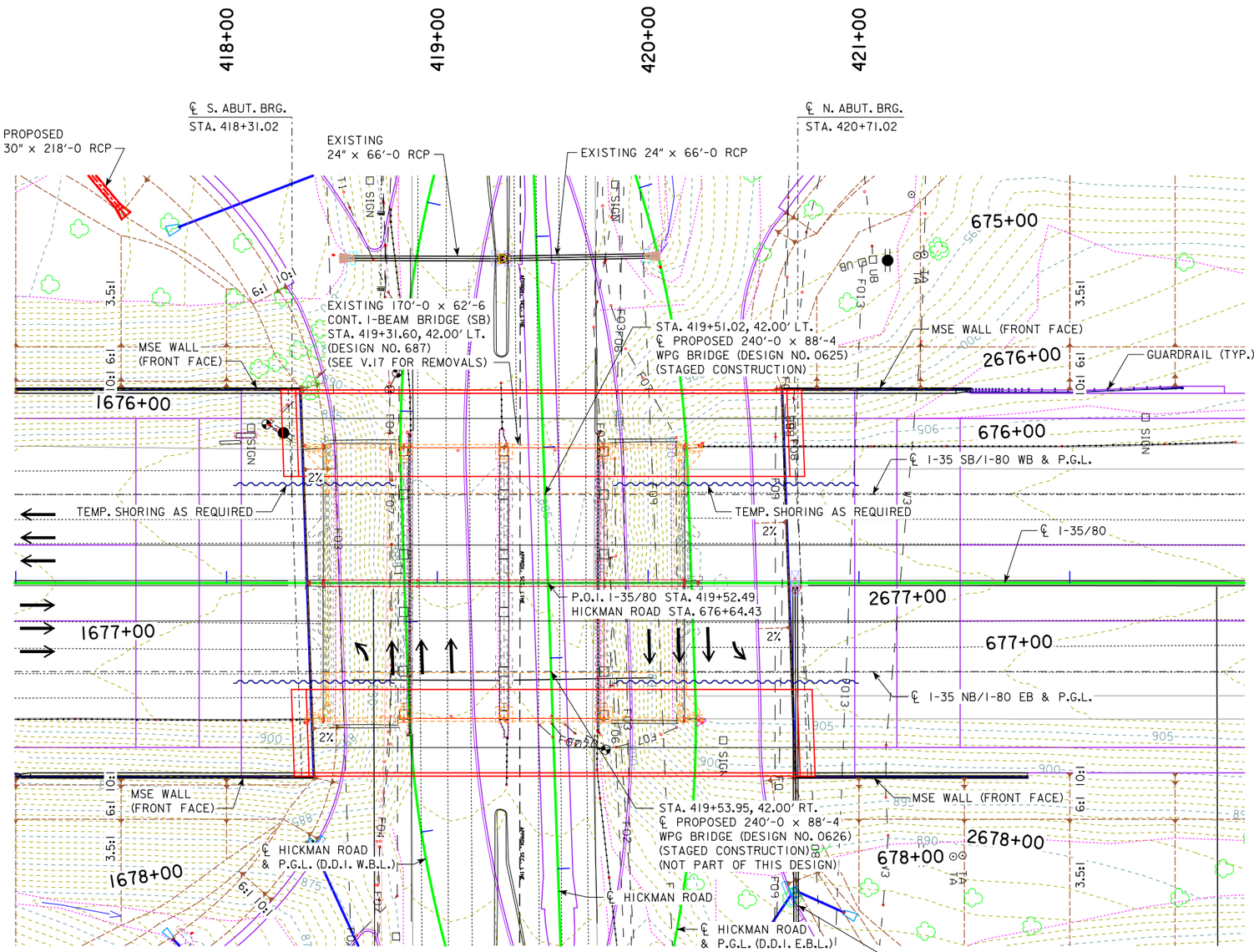
BENCHMARK BM55: NORTHING 7497393.85 EASTING 1848482.57 ELEVATION 929.83 FOUND BRASS PLUG IN CONCRETE/NORTH SIDE OF HICKMAN ROAD



SITE PLAN - STAGE I

ALL DIMENSIONS IN FEET UNLESS NOTED OTHERWISE

N

0 ENGLISH 60
SCALE IN FEET

UTILITY LEGEND

--E3--	ELECTRIC
--FO--	FIBER OPTIC
--FO2--	FIBER OPTIC
--FO3--	FIBER OPTIC
--FO4--	FIBER OPTIC
--FO6--	FIBER OPTIC
--FO8--	FIBER OPTIC
--FO9--	FIBER OPTIC
--TI--	TELEPHONE
--W3--	WATER
	POWER POLE

UTILITIES SHOWN ON THIS SHEET ARE FOR INFORMATION ONLY, SEE ROAD DESIGN SHEETS FOR FINAL UTILITY INFORMATION.

PRELIMINARY

DESIGN FOR 2° SKEW (R.A.)

240'-0 X 41'-1 WELDED PLATE GIRDER BRIDGE

240'-0 SPAN

SITE PLAN - STAGE I SB/WB

STATION 419+51.02, 42.00' LT. (℄ I-35/80) MAY, 2022

POLK COUNTY

IOWA DEPARTMENT OF TRANSPORTATION

DESIGN SHEET NO. 2 OF 8 FILE NO. 32251 DESIGN NO. 0625

SHUCK-BRITSON

DESIGN TEAM SMK/JAG/SR S.B.I. NO. 121.0240.01C | POLK COUNTY | PROJECT NUMBER IM-080-3(267)125--13-77 | SHEET NUMBER V.12

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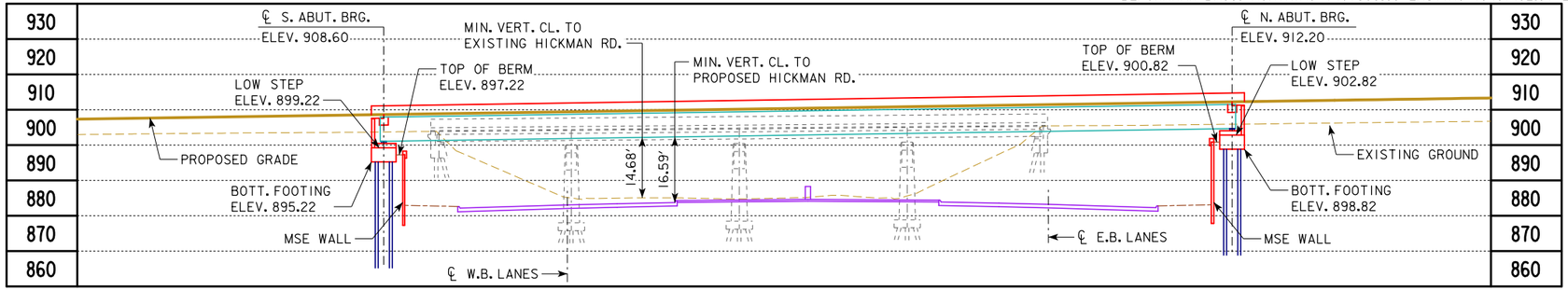
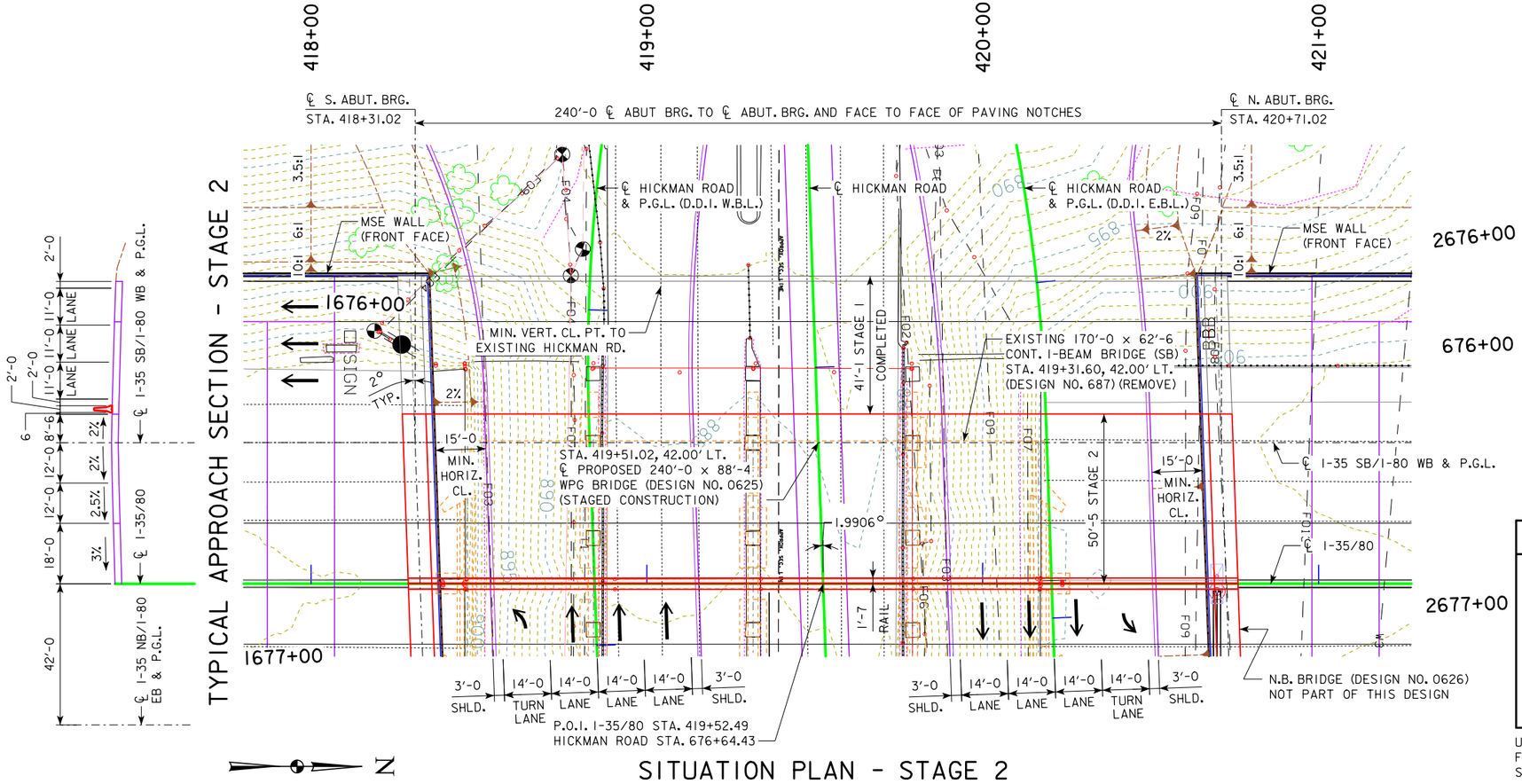
BENCHMARK BM55: NORTHING 7497393.85 EASTING 18481482.57 ELEVATION 929.83 FOUND BRASS PLUG IN CONCRETE/NORTH SIDE OF HICKMAN ROAD



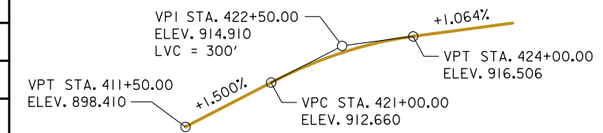
LONGITUDINAL SECTION ALONG ℄ I-35 SB/I-80 WB

TOP OF BRIDGE DECK AT ℄ I-35 SB/I-80 WB IS 0.03' BELOW THE PROFILE GRADE TO ACOUNT FOR THE PARABOLIC CROWN.

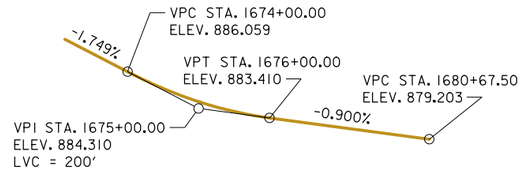


TYPICAL APPROACH SECTION - STAGE 2

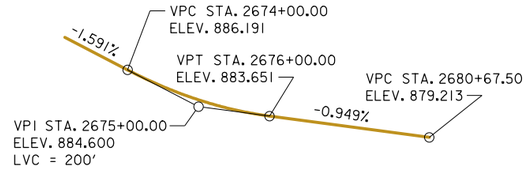
SITUATION PLAN - STAGE 2



PROPOSED PROFILE GRADE I-35/80



PROPOSED PROFILE GRADE HICKMAN ROAD D.D.I. W.B. LANES



PROPOSED PROFILE GRADE HICKMAN ROAD D.D.I. E.B. LANES

NOTES:

THIS DESIGN IS FOR THE REPLACEMENT OF THE EXISTING 170'-0 X 62'-6 CONTINUOUS I-BEAM BRIDGE, POLK DESIGN NO. 687, FHWA NO. 041310, MAINT. NO. 7725.IL080.
SEMI-INTEGRAL ABUTMENTS PROPOSED WITH NON-STANDARD WIDTH (7'-0), NON-STANDARD DEPTH (4'-0), NON-BATTERED PILING, AND TIE-ROD ANCHORS FOR LATERAL RESISTANCE.
ALL OFFSETS ARE MEASURED FROM ℄ I-35/80.
ALL DIMENSIONS ARE IN FEET U.N.O.
BEAM TYPE - WPG, DEPTH = 6'-10.
TL-5 BRIDGE RAILING PROPOSED.
BRIDGE AESTHETICS TO BE INCORPORATED DURING FINAL DESIGN.
SEE BRIDGE CROSS SECTION AND STAGING ON SHEETS V.17-V.18.

UTILITY LEGEND

--E3--	ELECTRIC
--FO--	FIBER OPTIC
--FO2--	FIBER OPTIC
--FO3--	FIBER OPTIC
--FO4--	FIBER OPTIC
--FO6--	FIBER OPTIC
--FO8--	FIBER OPTIC
--FO9--	FIBER OPTIC
--TI--	TELEPHONE
--W3--	WATER
	POWER POLE

UTILITIES SHOWN ON THIS SHEET ARE FOR INFORMATION ONLY, SEE ROAD DESIGN SHEETS FOR FINAL UTILITY INFORMATION.

LOCATION

I-35 SB AND I-80 WB OVER U.S. 6 (HICKMAN ROAD)
T-79N R-25W
SECTIONS 29 & 32
WALNUT TOWNSHIP
POLK COUNTY
EXISTING FHWA NO. 041310
NEW FHWA NO. 41311
BRIDGE MAINT. NO. 7725.IL080
LATITUDE 41.614938°
LONGITUDE -93.776987°

PRELIMINARY

0 ENGLISH 40
SCALE IN FEET

MINIMUM VERTICAL CLEARANCE TO EXISTING HICKMAN ROAD

OVERHEAD STATION = 419+04.15, OFFSET 88.50' LT.
OVERHEAD ELEVATION = 908.51
DEPTH OF SUPERSTRUCTURE = 7.58'
LIVE LOAD DEFLECTION = 0.30'
UNDERPASS STATION (℄ HICKMAN RD.) = 675+74.30, OFFSET 45.23' RT.
UNDERPASS ELEVATION = 885.94
MINIMUM VERTICAL CLEARANCE = 14.68'

SHUCK-BRITSON

HICKMAN ROAD TRAFFIC ESTIMATE

2019 AADT	32,500	V.P.D.
2042 AADT	49,600	V.P.D.
2042 DHV	4,530	V.P.H.
TRUCKS	4	%
TOTAL DESIGN ESALs	-	

I-35 SB/I-80 WB TRAFFIC ESTIMATE

2019 AADT	49,700	V.P.D.
2042 AADT	73,200	V.P.D.
2042 DHV	6,560	V.P.H.
TRUCKS	14	%
TOTAL DESIGN ESALs	-	

DESIGN FOR 2° SKEW (R.A.)

240'-0 X 41'-1 WELDED PLATE GIRDER BRIDGE WIDENING TO 240'-0 X 88'-4

240'-0 SPAN

SITUATION PLAN - STAGE 2 SB/WB

STATION 419+51.02, 42.00' LT. (℄ I-35/80) MAY, 2022

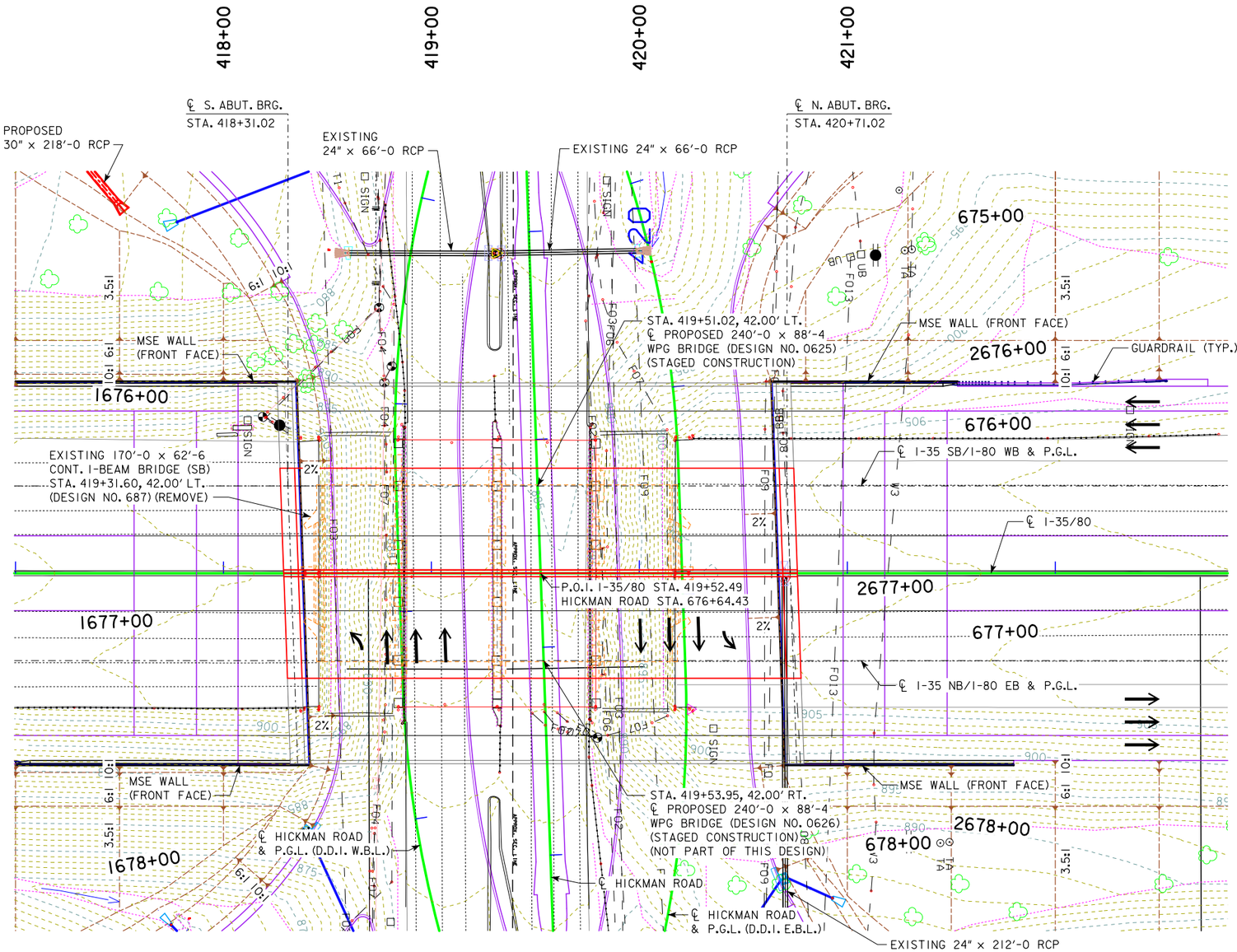
POLK COUNTY

IOWA DEPARTMENT OF TRANSPORTATION

DESIGN SHEET NO. 3 OF 8 FILE NO. 32251 DESIGN NO. 0625

DESIGN TEAM SMK/JAG/SR	S.B.I. NO. 121.0240.01C	POLK COUNTY	PROJECT NUMBER IM-080-3(267)125--13-77	SHEET NUMBER V.13

BENCHMARK BM55: NORTHING 7497393.85 EASTING 18481482.57 ELEVATION 929.83 FOUND BRASS PLUG IN CONCRETE/NORTH SIDE OF HICKMAN ROAD



SITE PLAN - STAGE 2

ALL DIMENSIONS IN FEET UNLESS NOTED OTHERWISE

UTILITY LEGEND	
--E3--	ELECTRIC
--FO--	FIBER OPTIC
--FO2--	FIBER OPTIC
--FO3--	FIBER OPTIC
--FO4--	FIBER OPTIC
--FO6--	FIBER OPTIC
--FO8--	FIBER OPTIC
--FO9--	FIBER OPTIC
--TI--	TELEPHONE
--W3--	WATER
	POWER POLE

UTILITIES SHOWN ON THIS SHEET ARE FOR INFORMATION ONLY, SEE ROAD DESIGN SHEETS FOR FINAL UTILITY INFORMATION.

N

0 ENGLISH 60
SCALE IN FEET

PRELIMINARY

DESIGN FOR 2° SKEW (R.A.)

240'-0 X 41'-1 WELDED PLATE GIRDER BRIDGE WIDENING TO 240'-0 X 88'-4

240'-0 SPAN

SITE PLAN - STAGE 2 SB/WB

STATION 419+51.02, 42.00' LT. (℄ I-35/80) MAY, 2022

POLK COUNTY

IOWA DEPARTMENT OF TRANSPORTATION

DESIGN SHEET NO. 4 OF 8 FILE NO. 32251 DESIGN NO. 0625

SHUCK-BRITSON

DESIGN TEAM SMK/JAG/SR S.B.I. NO. 121.0240.01C | POLK COUNTY | PROJECT NUMBER IM-080-3(267)125--13-77 | SHEET NUMBER V.14

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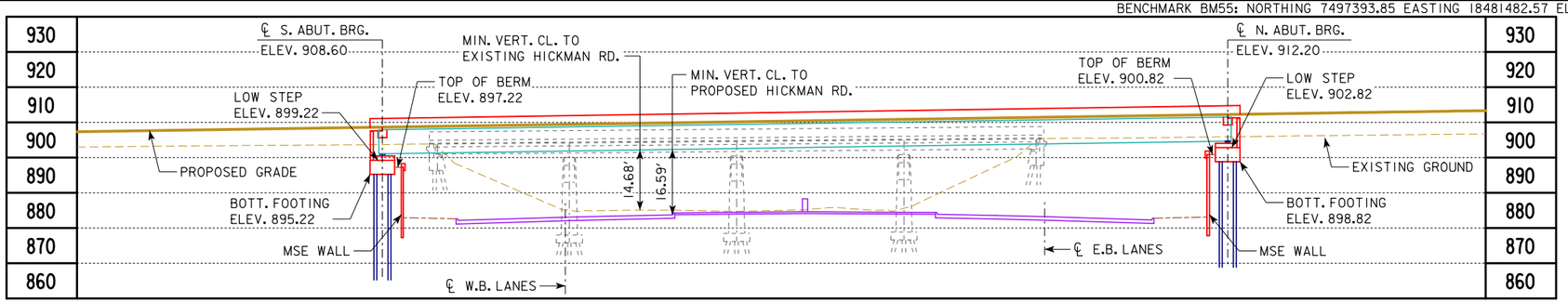
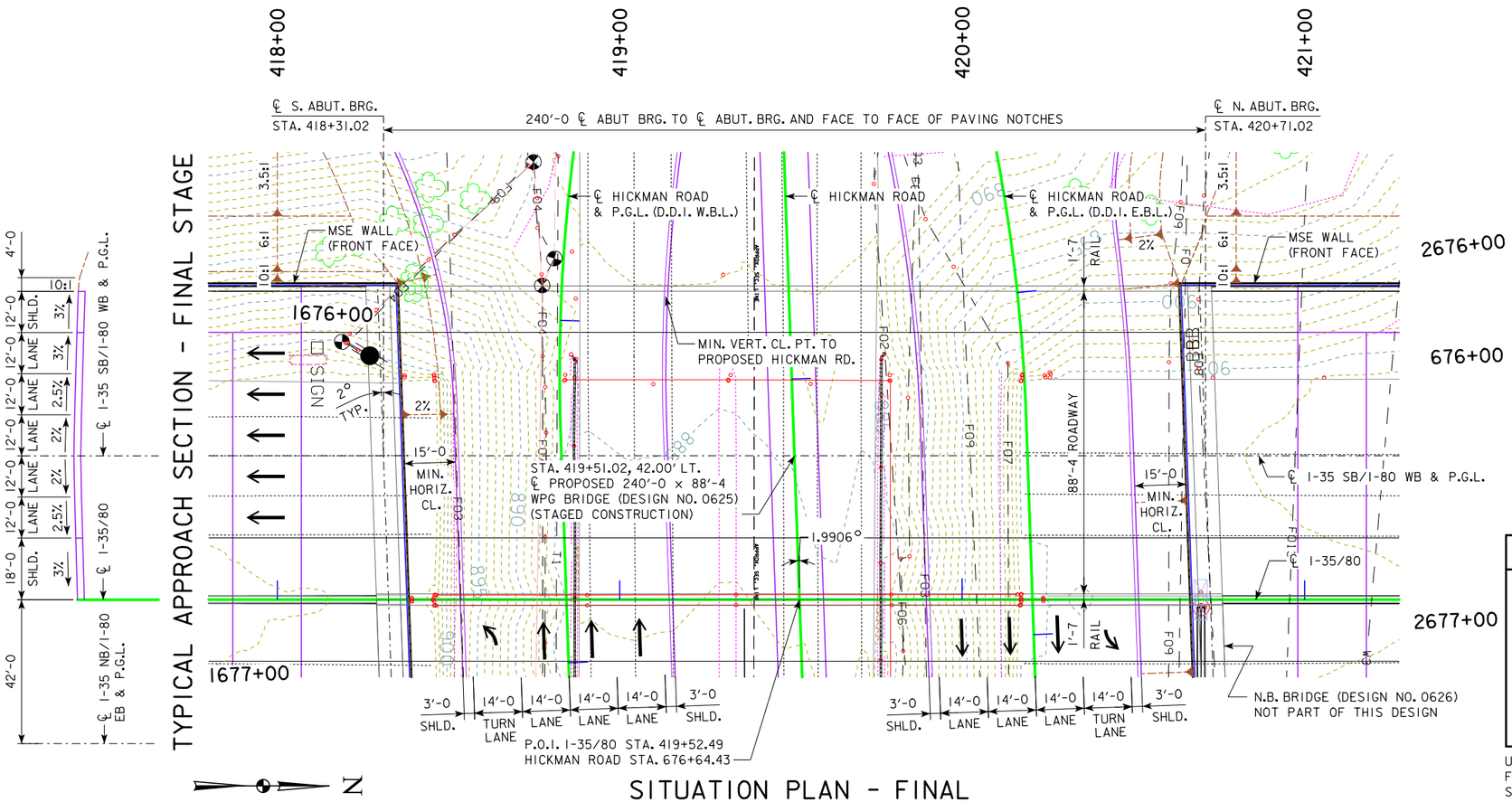
BENCHMARK BM55: NORTHING 7497393.85 EASTING 18481482.57 ELEVATION 929.83 FOUND BRASS PLUG IN CONCRETE/NORTH SIDE OF HICKMAN ROAD

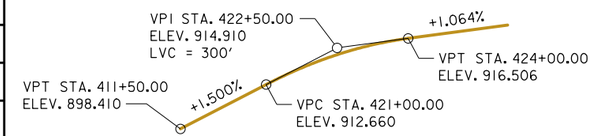


LONGITUDINAL SECTION ALONG ℄ I-35 SB/I-80 WB

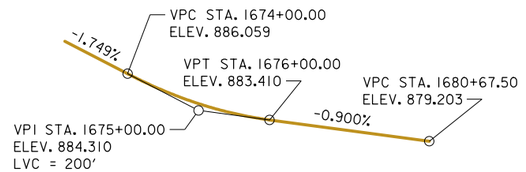
TOP OF BRIDGE DECK AT ℄ I-35 SB/I-80 WB IS 0.03' BELOW THE PROFILE GRADE TO ACOUNT FOR THE PARABOLIC CROWN.



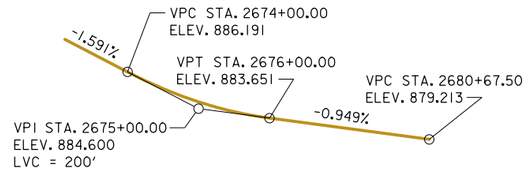
SITUATION PLAN - FINAL



PROPOSED PROFILE GRADE I-35/80



PROPOSED PROFILE GRADE HICKMAN ROAD D.D.I. W.B. LANES



PROPOSED PROFILE GRADE HICKMAN ROAD D.D.I. E.B. LANES

NOTES:

THIS DESIGN IS FOR THE REPLACEMENT OF THE EXISTING 170'-0 X 62'-6 CONTINUOUS I-BEAM BRIDGE, POLK DESIGN NO. 687, FHWA NO. 041310, MAINT. NO. 7725.IL080.
SEMI-INTEGRAL ABUTMENTS PROPOSED WITH NON-STANDARD WIDTH (7'-0), NON-STANDARD DEPTH (4'-0), NON-BATTERED PILING, AND TIE-ROD ANCHORS FOR LATERAL RESISTANCE.
ALL OFFSETS ARE MEASURED FROM ℄ I-35/80.
ALL DIMENSIONS ARE IN FEET U.N.O.
BEAM TYPE - WPG, DEPTH = 6'-10.
TL-5 BRIDGE RAILING PROPOSED.
BRIDGE AESTHETICS TO BE INCORPORATED DURING FINAL DESIGN.
SEE BRIDGE CROSS SECTION AND STAGING ON SHEETS V.17-V.18.

UTILITY LEGEND

--E3--	ELECTRIC
--FO--	FIBER OPTIC
--FO2--	FIBER OPTIC
--FO3--	FIBER OPTIC
--FO4--	FIBER OPTIC
--FO6--	FIBER OPTIC
--FO8--	FIBER OPTIC
--FO9--	FIBER OPTIC
--TI--	TELEPHONE
--W3--	WATER
	POWER POLE

UTILITIES SHOWN ON THIS SHEET ARE FOR INFORMATION ONLY, SEE ROAD DESIGN SHEETS FOR FINAL UTILITY INFORMATION.

LOCATION

I-35 SB AND I-80 WB OVER U.S. 6 (HICKMAN ROAD)
T-79N R-25W
SECTIONS 29 & 32
WALNUT TOWNSHIP
POLK COUNTY
EXISTING FHWA NO. 041310
NEW FHWA NO. 41311
BRIDGE MAINT. NO. 7725.IL080
LATITUDE 41.614938°
LONGITUDE -93.776987°

PRELIMINARY

0 ENGLISH 40
SCALE IN FEET

MINIMUM VERTICAL CLEARANCE TO PROPOSED HICKMAN ROAD

OVERHEAD STATION = 419+13.38, OFFSET 88.50' LT.
OVERHEAD ELEVATION = 908.65
DEPTH OF SUPERSTRUCTURE = 7.58'
LIVE LOAD DEFLECTION = 0.30'
UNDERPASS STATION (D.D.I. W.B.) = 1675+91.59, OFFSET 30.38' LT.
UNDERPASS ELEVATION = 884.17
MINIMUM VERTICAL CLEARANCE = 16.59'

SHUCK-BRITSON

HICKMAN ROAD TRAFFIC ESTIMATE

2019 AADT	32,500	V.P.D.
2042 AADT	49,600	V.P.D.
2042 DHV	4,530	V.P.H.
TRUCKS	4	%
TOTAL DESIGN ESALs	-	

I-35 SB/I-80 WB TRAFFIC ESTIMATE

2019 AADT	49,700	V.P.D.
2042 AADT	73,200	V.P.D.
2042 DHV	6,560	V.P.H.
TRUCKS	14	%
TOTAL DESIGN ESALs	-	

DESIGN FOR 2° SKEW (R.A.)

240'-0 X 88'-4 WELDED PLATE GIRDER BRIDGE

240'-0 SPAN

SITUATION PLAN - FINAL SB/WB

STATION 419+51.02, 42.00' LT. (℄ I-35/80) MAY, 2022

POLK COUNTY

IOWA DEPARTMENT OF TRANSPORTATION

DESIGN SHEET NO. 5 OF 8 FILE NO. 32251 DESIGN NO. 0625

DESIGN TEAM SMK/JAG/SR	S.B.I. NO. 121.0240.01C	POLK COUNTY	PROJECT NUMBER IM-080-3(267)125--13-77	SHEET NUMBER V.15

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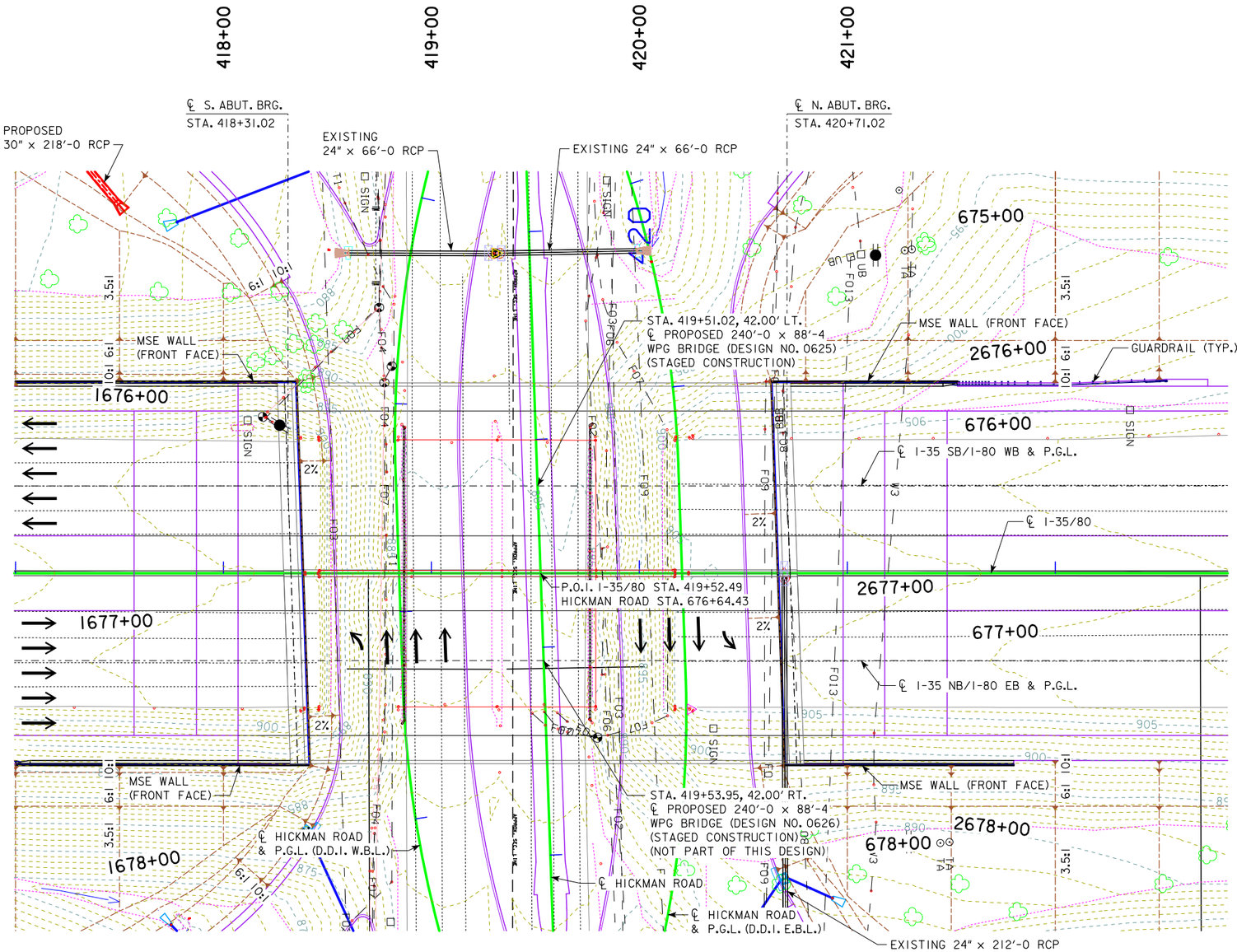
BENCHMARK BM55: NORTHING 7497393.85 EASTING 18481482.57 ELEVATION 929.83 FOUND BRASS PLUG IN CONCRETE/NORTH SIDE OF HICKMAN ROAD



SITE PLAN - FINAL

ALL DIMENSIONS IN FEET UNLESS NOTED OTHERWISE

UTILITY LEGEND	
--E3--	ELECTRIC
--FO--	FIBER OPTIC
--F02--	FIBER OPTIC
--F03--	FIBER OPTIC
--F04--	FIBER OPTIC
--F06--	FIBER OPTIC
--F08--	FIBER OPTIC
--F09--	FIBER OPTIC
--TI--	TELEPHONE
--W3--	WATER
	POWER POLE

UTILITIES SHOWN ON THIS SHEET ARE FOR INFORMATION ONLY, SEE ROAD DESIGN SHEETS FOR FINAL UTILITY INFORMATION.

N

0 ENGLISH 60
SCALE IN FEET

PRELIMINARY

DESIGN FOR 2° SKEW (R.A.)

240'-0 X 88'-4 WELDED PLATE GIRDER BRIDGE

240'-0 SPAN

SITE PLAN - FINAL SB/WB

STATION 419+51.02, 42.00' LT. (℄ I-35/80) MAY, 2022

POLK COUNTY

IOWA DEPARTMENT OF TRANSPORTATION

DESIGN SHEET NO. 6 OF 8 FILE NO. 32251 DESIGN NO. 0625

SHUCK-BRITSON

DESIGN TEAM SMK/JAG/SR S.B.I. NO. 121.0240.01C | POLK COUNTY | PROJECT NUMBER IM-080-3(267)125--13-77 | SHEET NUMBER V.16

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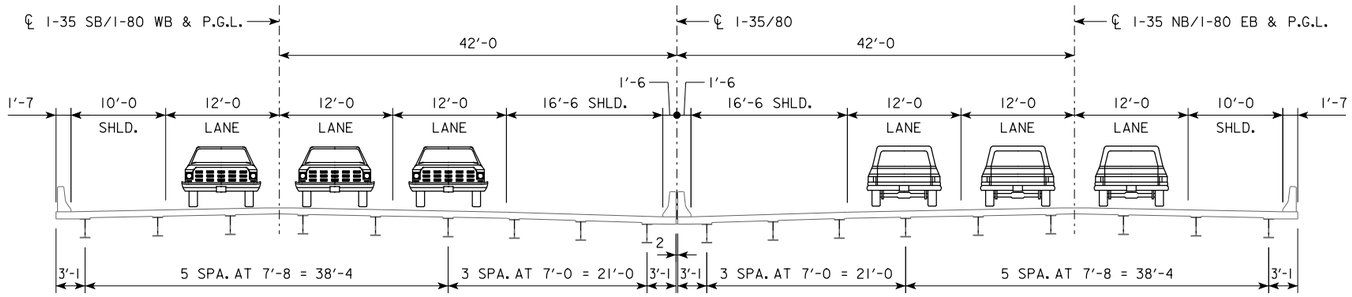
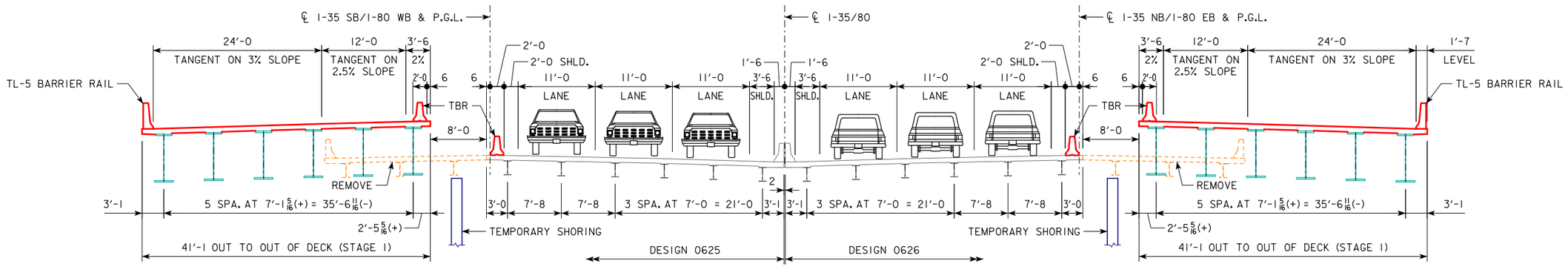


EXISTING I-35/80 TYPICAL SECTION

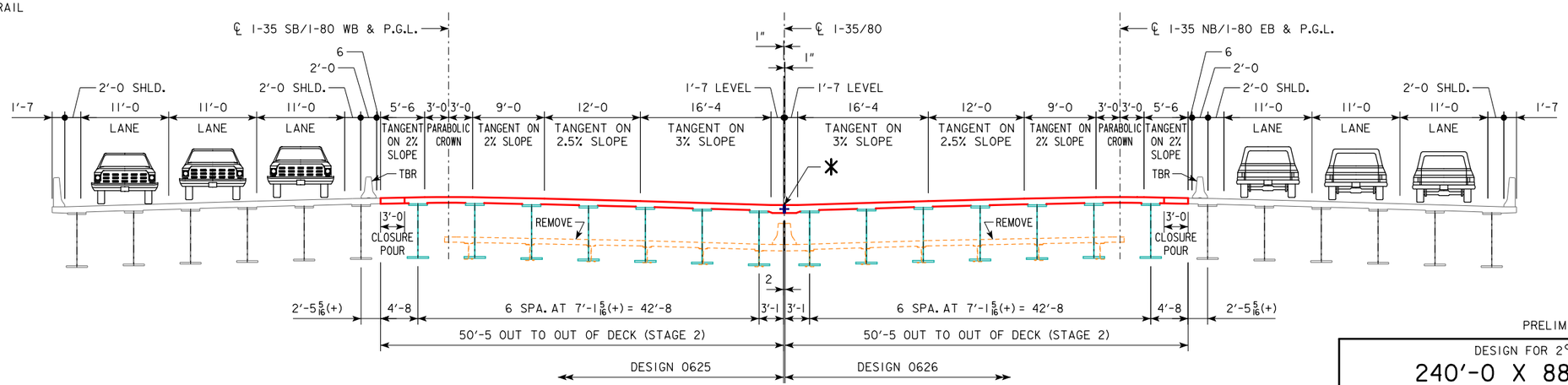
(LOOKING NORTH)



STAGE 1A

(LOOKING NORTH)

NOTE:
TBR = TEMPORARY BARRIER RAIL



STAGE 2B

(LOOKING NORTH)

STAGING NOTES:

STAGE NUMBERING SHOWN CORRESPONDS WITH THE STAGES IN THE ROADWAY PLANS.

SEE TRAFFIC STAGING SHEETS IN THESE PLANS FOR LOCATION OF TBR.

* INSTALL NEW MEDIAN SLOTTED DRAIN. EDGE OF DECK THICKNESS = 1'-0.

SHUCK-BRITSON

PRELIMINARY

DESIGN FOR 2° SKEW (R.A.)

240'-0 X 88'-4 WELDED PLATE GIRDER BRIDGE

240'-0 SPAN

STAGING

STATION 419+51.02, 42.00' LT. (℄ I-35/80)

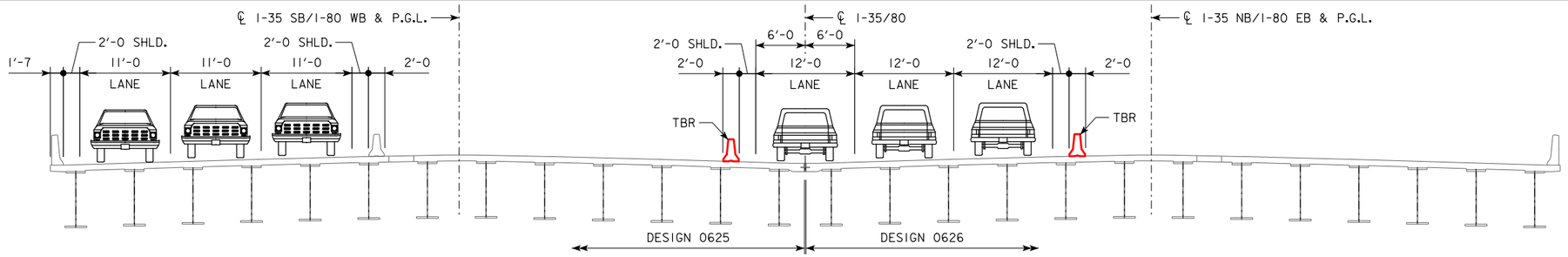
MAY, 2022

POLK COUNTY

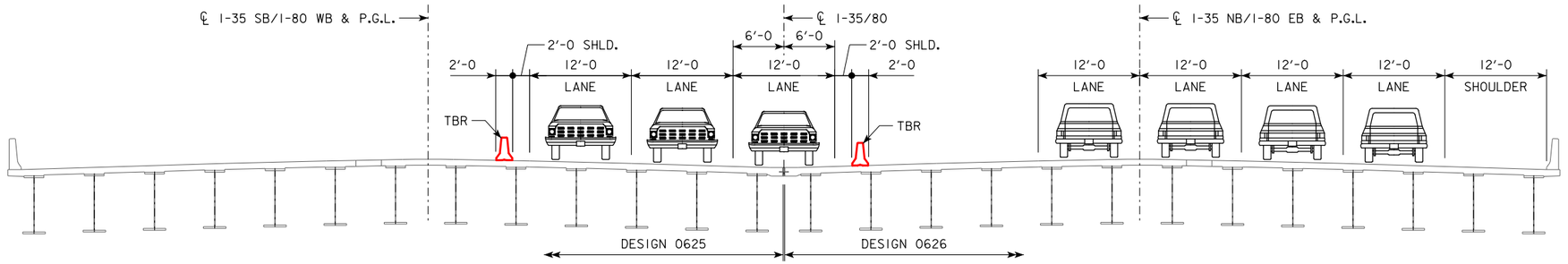
IOWA DEPARTMENT OF TRANSPORTATION

DESIGN SHEET NO. 7 OF 8 FILE NO. 32251 DESIGN NO. 0625

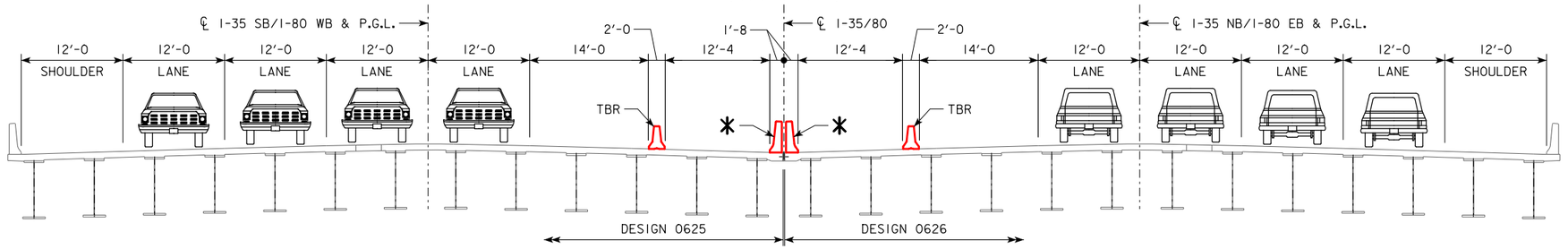
DESIGN TEAM SMK/JAG/SR	S.B.I. NO. 121.0240.01C	POLK COUNTY	PROJECT NUMBER IM-080-3(267)125--13-77	SHEET NUMBER V.17



STAGE 2C
(LOOKING NORTH)



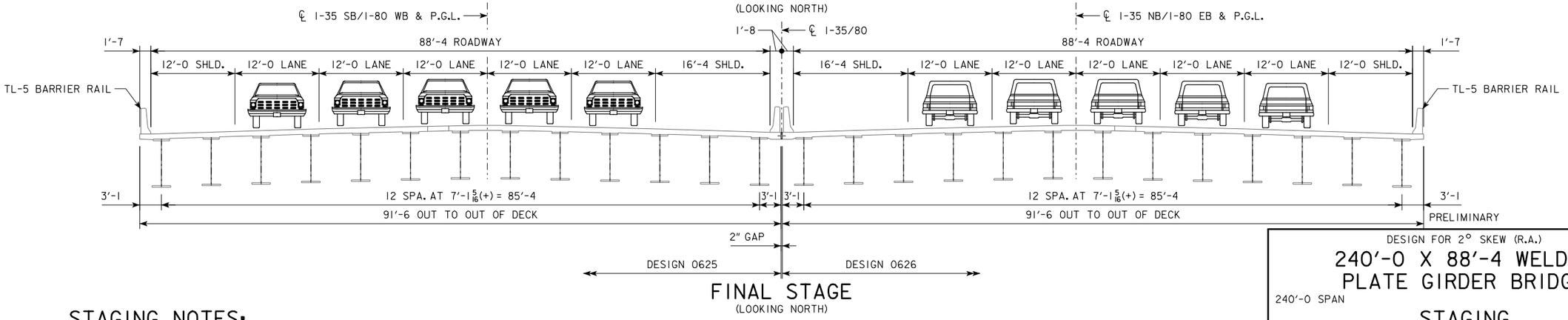
STAGE 2D
(LOOKING NORTH)



STAGE 2E
(LOOKING NORTH)

✱ INSTALL TL-5 BARRIER RAIL BY DRILLING AND DOWELING INTO EXISTING DECK

NOTE:
TBR = TEMPORARY BARRIER RAIL



FINAL STAGE
(LOOKING NORTH)

PRELIMINARY

STAGING NOTES:

STAGE NUMBERING SHOWN CORRESPONDS WITH THE STAGES IN THE ROADWAY PLANS.

SEE TRAFFIC STAGING SHEETS IN THESE PLANS FOR LOCATION OF TBR.

SHUCK-BRITSON

DESIGN FOR 2° SKEW (R.A.)

240'-0 X 88'-4 WELDED PLATE GIRDER BRIDGE

240'-0 SPAN

STAGING

STATION 419+51.02, 42.00' LT. (℄ I-35/80) MAY, 2022

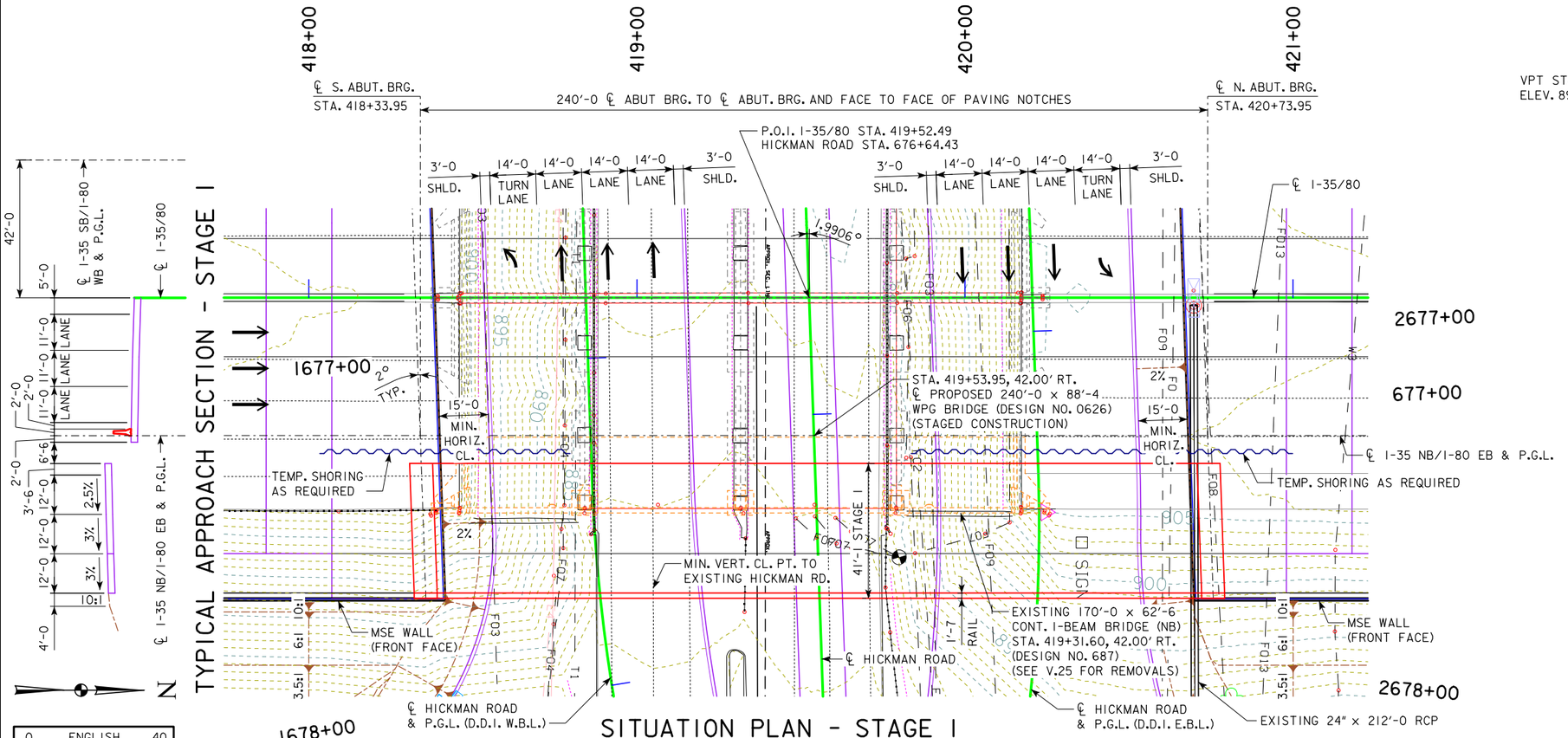
POLK COUNTY

IOWA DEPARTMENT OF TRANSPORTATION

DESIGN SHEET NO. 8 OF 8 FILE NO. 32251 DESIGN NO. 0625

DESIGN TEAM SMK/JAG/SR	S.B.I. NO. 121.0240.01C	POLK COUNTY	PROJECT NUMBER IM-080-3(267)125--13-77	SHEET NUMBER V.18

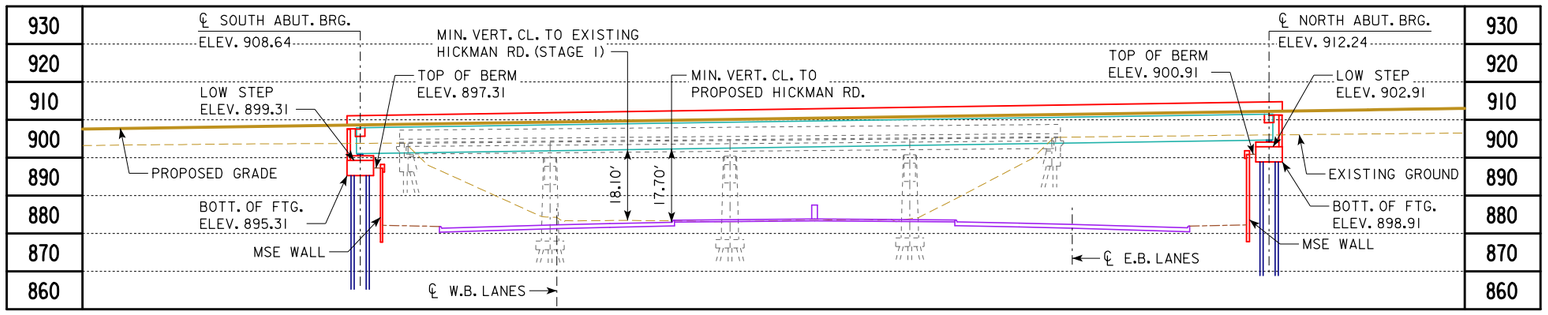
BENCHMARK BM55: NORTHING 7497393.85 EASTING 18481482.57 ELEVATION 929.83 FOUND BRASS PLUG IN CONCRETE/NORTH SIDE OF HICKMAN ROAD



TYPICAL APPROACH SECTION - STAGE I

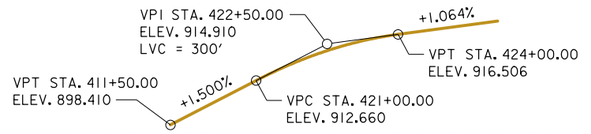
SITUATION PLAN - STAGE I

0 ENGLISH 40
SCALE IN FEET

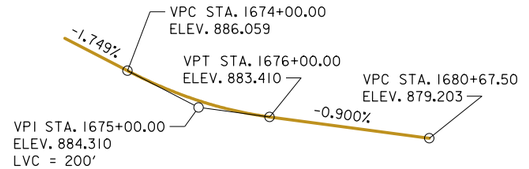


LONGITUDINAL SECTION ALONG ℄ I-35 NB/I-80 EB

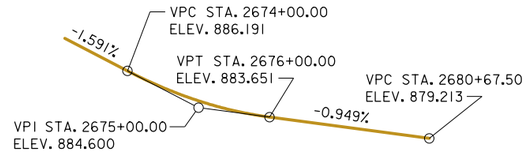
TOP OF BRIDGE DECK AT ℄ I-35 NB/I-80 EB IS 0.03′ BELOW THE PROFILE GRADE TO ACOUNT FOR THE PARABOLIC CROWN.



PROPOSED PROFILE GRADE I-35/80



PROPOSED PROFILE GRADE HICKMAN ROAD D.D.I. W.B. LANES



PROPOSED PROFILE GRADE HICKMAN ROAD D.D.I. E.B. LANES

NOTES:

THIS DESIGN IS FOR THE REPLACEMENT OF THE EXISTING 170′-0 X 62′-6 CONTINUOUS I-BEAM BRIDGE, POLK DESIGN NO. 687, FHWA NO. 041300, MAINT. NO. 7725.1R080.
SEMI-INTEGRAL ABUTMENTS PROPOSED WITH NON-STANDARD WIDTH (7′-0), NON-STANDARD DEPTH (4′-0), NON-BATTERED PILING, AND TIE-ROD ANCHORS FOR LATERAL RESISTANCE.
ALL OFFSETS ARE MEASURED FROM ℄ I-35/80.
ALL DIMENSIONS ARE IN FEET U.N.O.
BEAM TYPE - WPG, DEPTH = 6′-10.
TL-5 BRIDGE RAILING PROPOSED.
BRIDGE AESTHETICS TO BE INCORPORATED DURING FINAL DESIGN.
SEE BRIDGE CROSS SECTION AND STAGING ON SHEETS V.25-V.26.

UTILITY LEGEND

--E3--	ELECTRIC
--FO--	FIBER OPTIC
--F02--	FIBER OPTIC
--F03--	FIBER OPTIC
--F04--	FIBER OPTIC
--F06--	FIBER OPTIC
--F08--	FIBER OPTIC
--F09--	FIBER OPTIC
--TI--	TELEPHONE
--W3--	WATER
	POWER POLE

UTILITIES SHOWN ON THIS SHEET ARE FOR INFORMATION ONLY, SEE ROAD DESIGN SHEETS FOR FINAL UTILITY INFORMATION.

LOCATION

I-35 NB AND I-80 EB OVER U.S. 6 (HICKMAN ROAD)
T-79N R-25W
SECTIONS 29 & 32
WALNUT TOWNSHIP
POLK COUNTY
EXISTING FHWA NO. 041300
NEW FHWA NO. 41301
BRIDGE MAINT. NO. 7725.1R080
LATITUDE 41.614945°
LONGITUDE -93.776680°

PRELIMINARY

MINIMUM VERTICAL CLEARANCE TO EXISTING HICKMAN ROAD (STAGE I)

OVERHEAD STATION = 419+04.97, OFFSET 88.50′ RT.
OVERHEAD ELEVATION = 908.52
DEPTH OF SUPERSTRUCTURE = 7.58′
LIVE LOAD DEFLECTION = 0.30′
UNDERPASS STATION (℄ HICKMAN RD.) = 677+51.23, OFFSET 50.56′ RT.
UNDERPASS ELEVATION = 882.54
MINIMUM VERTICAL CLEARANCE = 18.10′

HICKMAN ROAD TRAFFIC ESTIMATE

2019 AADT	32,500	V.P.D.
2042 AADT	49,600	V.P.D.
2042 DHV	4,530	V.P.H.
TRUCKS	4	%
TOTAL DESIGN ESALs	-	

I-35 NB/I-80 EB TRAFFIC ESTIMATE

2019 AADT	51,400	V.P.D.
2042 AADT	68,700	V.P.D.
2042 DHV	6,810	V.P.H.
TRUCKS	14	%
TOTAL DESIGN ESALs	-	

DESIGN FOR 2° SKEW (R.A.)

240′-0 X 41′-1 WELDED PLATE GIRDER BRIDGE

240′-0 SPAN

SITUATION PLAN - STAGE I NB/EB

STATION 419+53.95, 42.00′ RT. (℄ I-35/80) MAY, 2022

POLK COUNTY

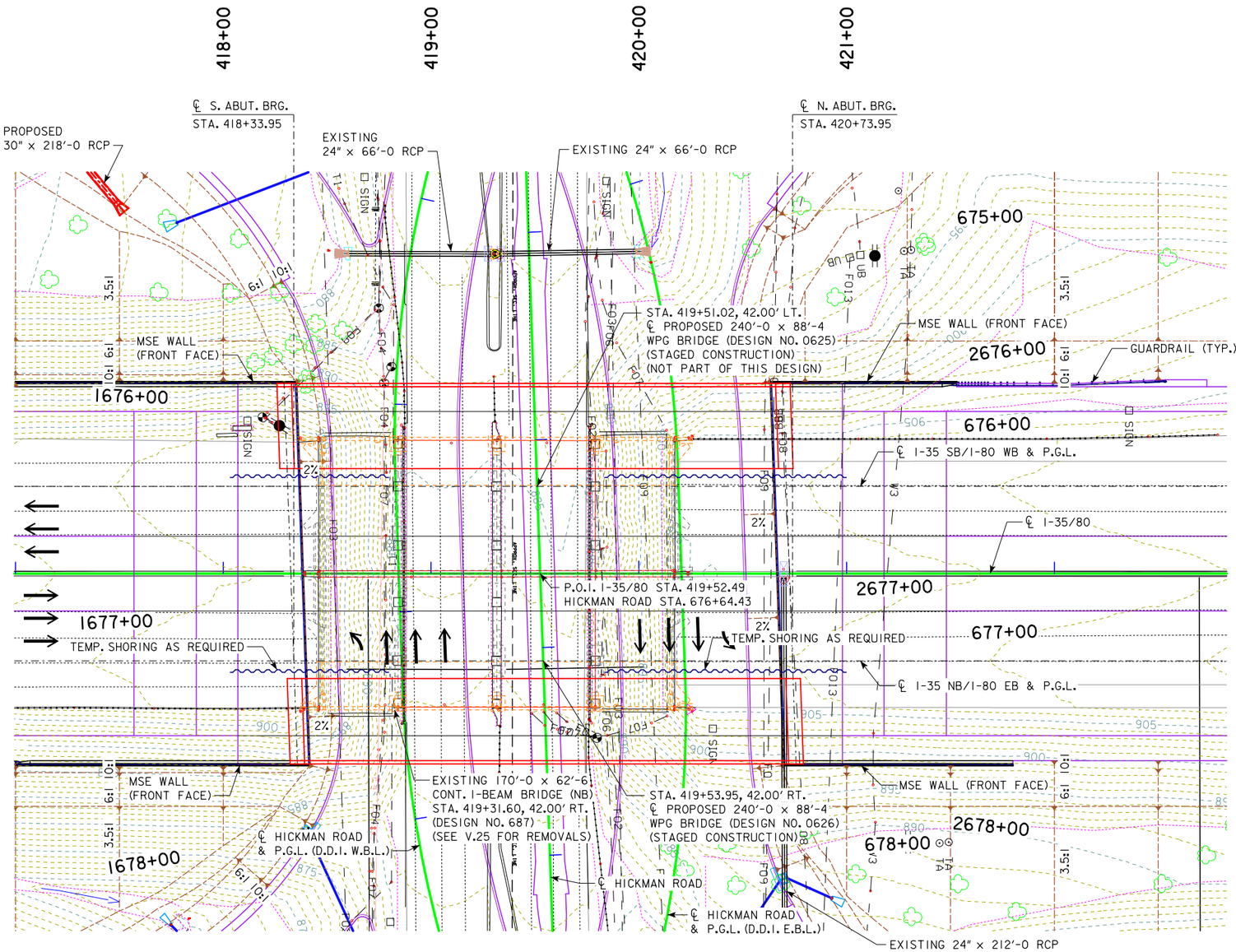
IOWA DEPARTMENT OF TRANSPORTATION

DESIGN SHEET NO. 1 OF 8 FILE NO. 32251 DESIGN NO. 0626

SHUCK-BRITSON

DESIGN TEAM SMK/JAG/SR	S.B.I. NO. 121.0240.01C	POLK COUNTY	PROJECT NUMBER IM-080-3(272)125--13-77	SHEET NUMBER V.19

BENCHMARK BM55: NORTHING 7497393.85 EASTING 18481482.57 ELEVATION 929.83 FOUND BRASS PLUG IN CONCRETE/NORTH SIDE OF HICKMAN ROAD



SITE PLAN - STAGE 1

ALL DIMENSIONS IN FEET UNLESS NOTED OTHERWISE

UTILITY LEGEND	
--E3--	ELECTRIC
--FO--	FIBER OPTIC
--FO2--	FIBER OPTIC
--FO3--	FIBER OPTIC
--FO4--	FIBER OPTIC
--FO6--	FIBER OPTIC
--FO8--	FIBER OPTIC
--FO9--	FIBER OPTIC
--TI--	TELEPHONE
--W3--	WATER
	POWER POLE

UTILITIES SHOWN ON THIS SHEET ARE FOR INFORMATION ONLY, SEE ROAD DESIGN SHEETS FOR FINAL UTILITY INFORMATION.

N

0 ENGLISH 60
SCALE IN FEET

PRELIMINARY

DESIGN FOR 2° SKEW (R.A.)

240'-0 X 41'-1 WELDED PLATE GIRDER BRIDGE

240'-0 SPAN

SITE PLAN - STAGE 1 NB/EB

STATION 419+53.95, 42.00' RT. (℄ I-35/80) MAY, 2022

POLK COUNTY

IOWA DEPARTMENT OF TRANSPORTATION

DESIGN SHEET NO. 2 OF 8 FILE NO. 32251 DESIGN NO. 0626

SHUCK-BRITSON

DESIGN TEAM SMK/JAG/SR S.B.I. NO. 121.0240.01C | POLK COUNTY | PROJECT NUMBER IM-080-3(272)125--13-77 | SHEET NUMBER V.20

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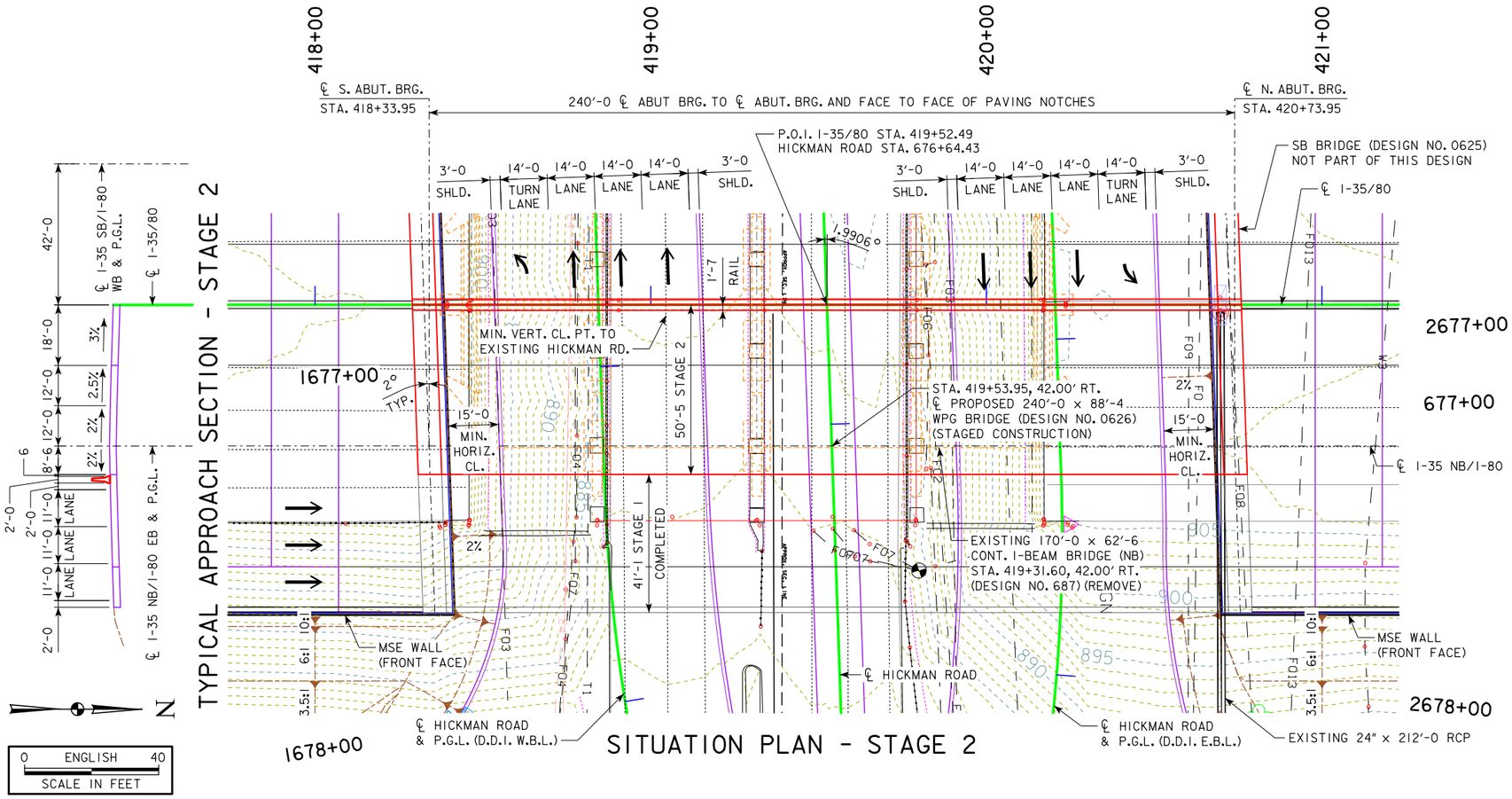
BENCHMARK BM55: NORTHING 7497393.85 EASTING 18481482.57 ELEVATION 929.83 FOUND BRASS PLUG IN CONCRETE/NORTH SIDE OF HICKMAN ROAD

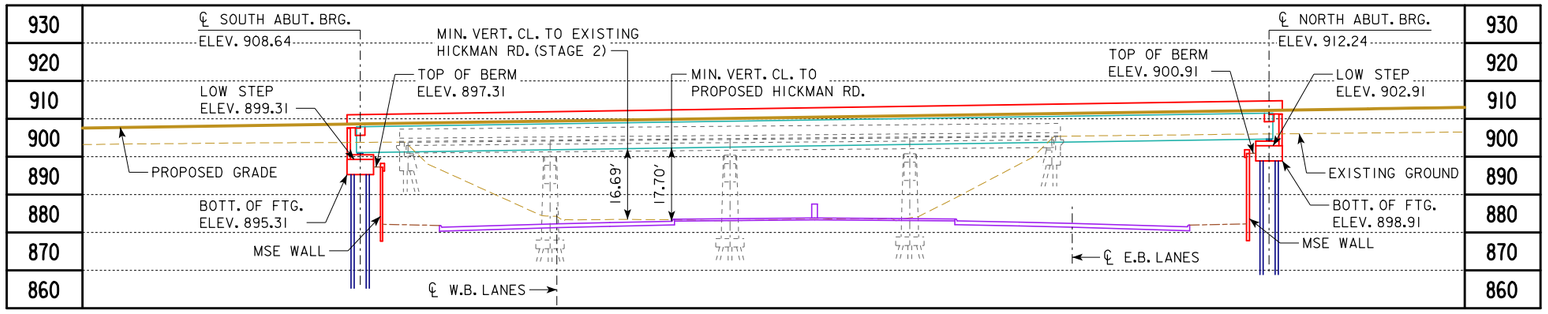


SITUATION PLAN - STAGE 2

TYPICAL APPROACH SECTION - STAGE 2

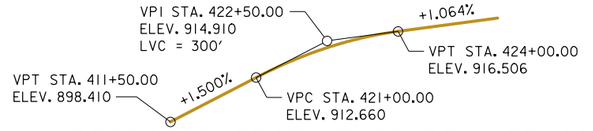
N

0 ENGLISH 40
SCALE IN FEET

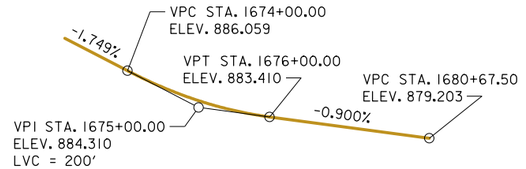


LONGITUDINAL SECTION ALONG ℄ I-35 NB/I-80 EB

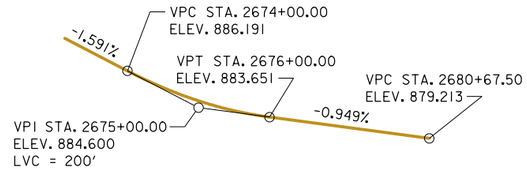
TOP OF BRIDGE DECK AT ℄ I-35 NB/I-80 EB IS 0.03' BELOW THE PROFILE GRADE TO ACOUNT FOR THE PARABOLIC CROWN.



PROPOSED PROFILE GRADE I-35/80



PROPOSED PROFILE GRADE HICKMAN ROAD D.D.I. W.B. LANES



PROPOSED PROFILE GRADE HICKMAN ROAD D.D.I. E.B. LANES

NOTES:

THIS DESIGN IS FOR THE REPLACEMENT OF THE EXISTING 170'-0 X 62'-6 CONTINUOUS I-BEAM BRIDGE, POLK DESIGN NO. 687, FHWA NO. 041300, MAINT. NO. 7725.1R080.
SEMI-INTEGRAL ABUTMENTS PROPOSED WITH NON-STANDARD WIDTH (7'-0), NON-STANDARD DEPTH (4'-0), NON-BATTERED PILING, AND TIE-ROD ANCHORS FOR LATERAL RESISTANCE.
ALL OFFSETS ARE MEASURED FROM ℄ I-35/80.
ALL DIMENSIONS ARE IN FEET U.N.O.
BEAM TYPE - WPG, DEPTH = 6'-10.
TL-5 BRIDGE RAILING PROPOSED.
BRIDGE AESTHETICS TO BE INCORPORATED DURING FINAL DESIGN.
SEE BRIDGE CROSS SECTION AND STAGING ON SHEETS V.25-V.26.

UTILITY LEGEND

--E3--	ELECTRIC
--FO--	FIBER OPTIC
--FO2--	FIBER OPTIC
--FO3--	FIBER OPTIC
--FO4--	FIBER OPTIC
--FO6--	FIBER OPTIC
--FO8--	FIBER OPTIC
--FO9--	FIBER OPTIC
--T1--	TELEPHONE
--W3--	WATER
	POWER POLE

UTILITIES SHOWN ON THIS SHEET ARE FOR INFORMATION ONLY, SEE ROAD DESIGN SHEETS FOR FINAL UTILITY INFORMATION.

LOCATION

I-35 NB AND I-80 EB OVER U.S. 6 (HICKMAN ROAD)
T-79N R-25W
SECTIONS 29 & 32
WALNUT TOWNSHIP
POLK COUNTY
EXISTING FHWA NO. 041300
NEW FHWA NO. 41301
BRIDGE MAINT. NO. 7725.1R080
LATITUDE 41.614945°
LONGITUDE -93.776680°

PRELIMINARY

MINIMUM VERTICAL CLEARANCE TO EXISTING HICKMAN ROAD (STAGE 2)

OVERHEAD STATION = 419+04.54, OFFSET 3.17' RT.
OVERHEAD ELEVATION = 908.74
DEPTH OF SUPERSTRUCTURE = 7.58'
LIVE LOAD DEFLECTION = 0.30'
UNDERPASS STATION (℄ HICKMAN RD.) = 676+65.93, OFFSET 48.03' RT.
UNDERPASS ELEVATION = 884.17
MINIMUM VERTICAL CLEARANCE = 16.69'

HICKMAN ROAD TRAFFIC ESTIMATE

2019 AADT	32,500	V.P.D.
2042 AADT	49,600	V.P.D.
2042 DHV	4,530	V.P.H.
TRUCKS	4	%
TOTAL DESIGN ESALs	-	

I-35 NB/I-80 EB TRAFFIC ESTIMATE

2019 AADT	51,400	V.P.D.
2042 AADT	68,700	V.P.D.
2042 DHV	6,810	V.P.H.
TRUCKS	14	%
TOTAL DESIGN ESALs	-	

DESIGN FOR 2° SKEW (R.A.)

240'-0 X 41'-1 WELDED PLATE GIRDER BRIDGE WIDENING TO 240'-0 X 88'-4

240'-0 SPAN

SITUATION PLAN - STAGE 2 NB/EB

STATION 419+53.95, 42.00' RT. (℄ I-35/80) MAY, 2022

POLK COUNTY

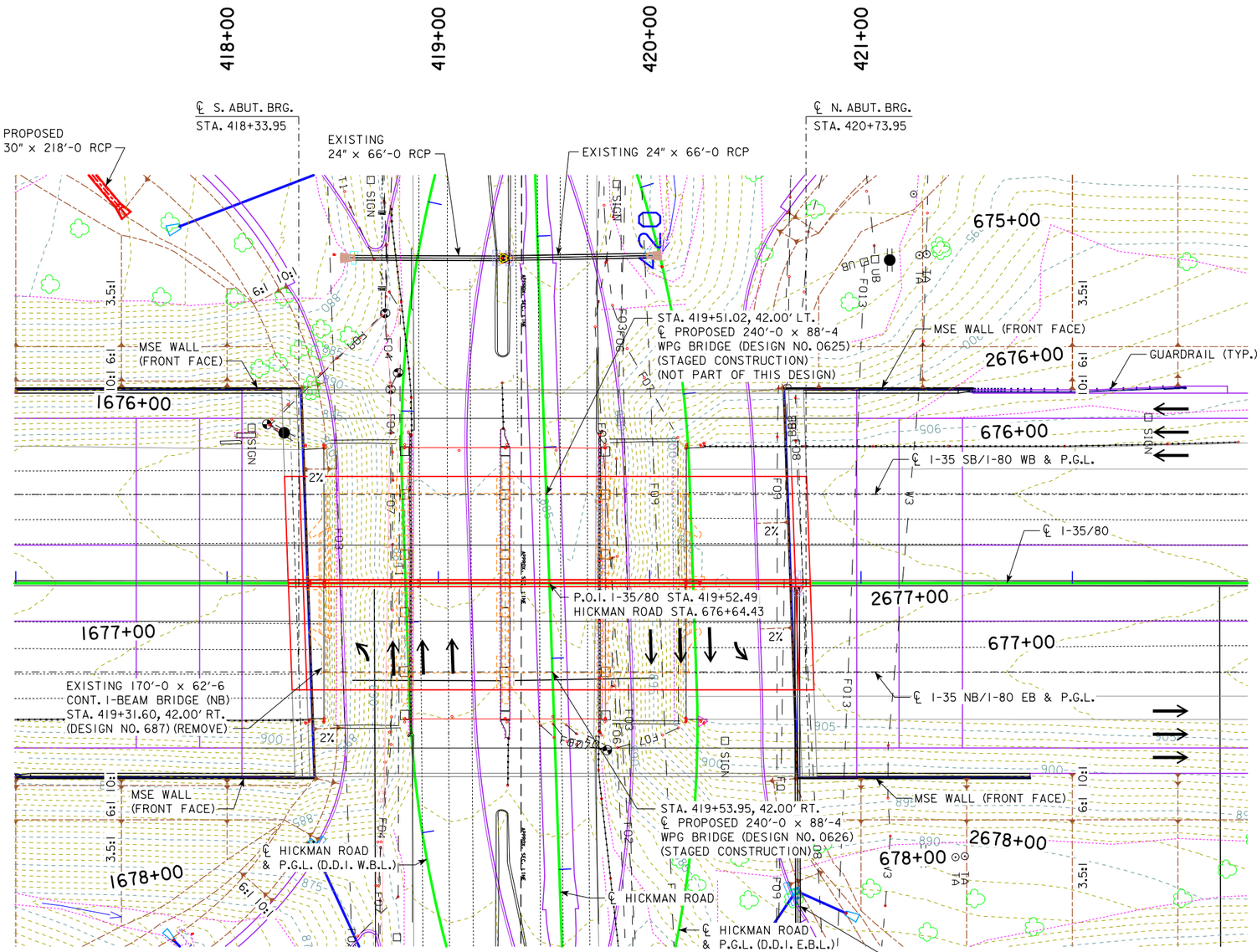
IOWA DEPARTMENT OF TRANSPORTATION

DESIGN SHEET NO. 3 OF 8 FILE NO. 32251 DESIGN NO. 0626

SHUCK-BRITSON

DESIGN TEAM SMK/JAG/SR	S.B.I. NO. 121.0240.01C	POLK COUNTY	PROJECT NUMBER IM-080-3(272)125--13-77	SHEET NUMBER V.21

BENCHMARK BM55: NORTHING 7497393.85 EASTING 18481482.57 ELEVATION 929.83 FOUND BRASS PLUG IN CONCRETE/NORTH SIDE OF HICKMAN ROAD



SITE PLAN - STAGE 2

ALL DIMENSIONS IN FEET UNLESS NOTED OTHERWISE

UTILITY LEGEND	
--E3--	ELECTRIC
--FO--	FIBER OPTIC
--FO2--	FIBER OPTIC
--FO3--	FIBER OPTIC
--FO4--	FIBER OPTIC
--FO6--	FIBER OPTIC
--FO8--	FIBER OPTIC
--FO9--	FIBER OPTIC
--TI--	TELEPHONE
--W3--	WATER
	POWER POLE

UTILITIES SHOWN ON THIS SHEET ARE FOR INFORMATION ONLY, SEE ROAD DESIGN SHEETS FOR FINAL UTILITY INFORMATION.

N

0 ENGLISH 60
SCALE IN FEET

SHUCK-BRITSON

PRELIMINARY

DESIGN FOR 2° SKEW (R.A.)

240'-0 X 41'-1 WELDED PLATE GIRDER BRIDGE WIDENING TO 240'-0 X 88'-4

240'-0 SPAN

SITE PLAN - STAGE 2 NB/EB

STATION 419+53.95, 42.00' RT. (℄ I-35/80) MAY, 2022

POLK COUNTY

IOWA DEPARTMENT OF TRANSPORTATION

DESIGN SHEET NO. 4 OF 8 FILE NO. 32251 DESIGN NO. 0626

DESIGN TEAM SMK/JAG/SR	S.B.I. NO. 121.0240.01C	POLK COUNTY	PROJECT NUMBER IM-080-3(272)125--13-77	SHEET NUMBER V.22

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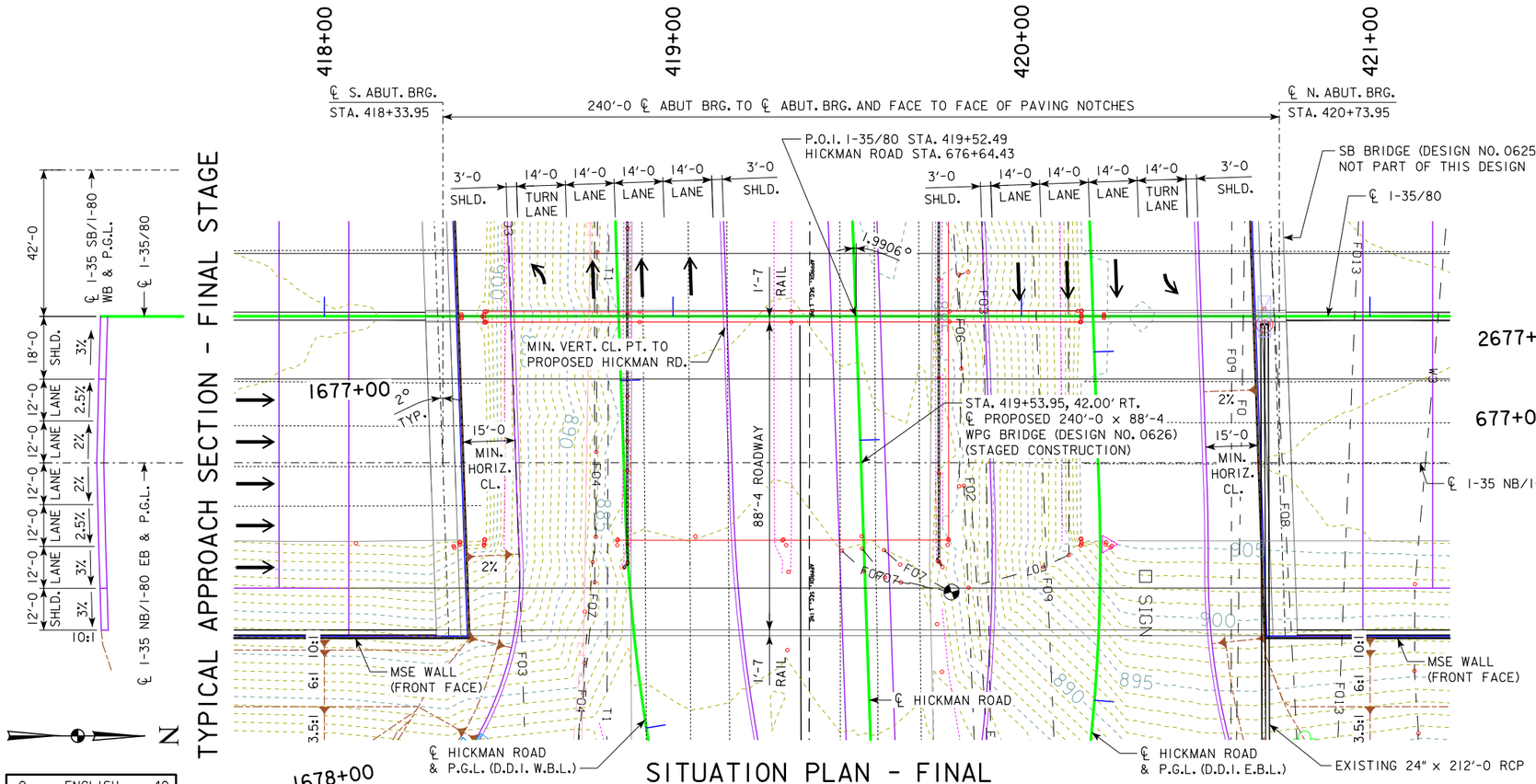
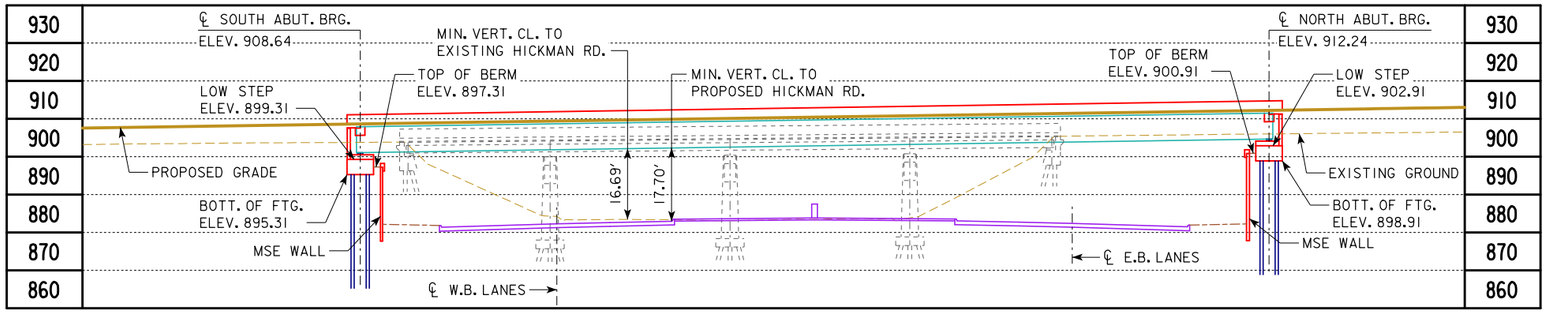
BENCHMARK BM55: NORTHING 7497393.85 EASTING 18481482.57 ELEVATION 929.83 FOUND BRASS PLUG IN CONCRETE/NORTH SIDE OF HICKMAN ROAD



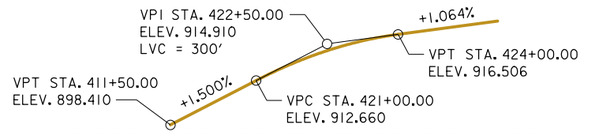
SITUATION PLAN - FINAL

0 ENGLISH 40
SCALE IN FEET

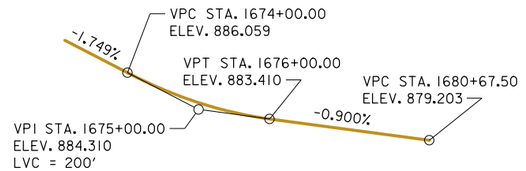


LONGITUDINAL SECTION ALONG ℄ I-35 NB/I-80 EB

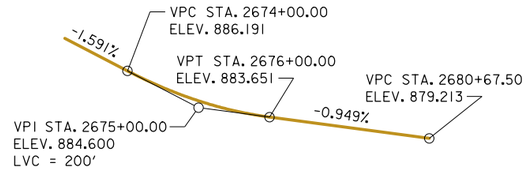
TOP OF BRIDGE DECK AT ℄ I-35 NB/I-80 EB IS 0.03′ BELOW THE PROFILE GRADE TO ACOUNT FOR THE PARABOLIC CROWN.



PROPOSED PROFILE GRADE I-35/80



PROPOSED PROFILE GRADE HICKMAN ROAD D.D.I. W.B. LANES



PROPOSED PROFILE GRADE HICKMAN ROAD D.D.I. E.B. LANES

NOTES:

THIS DESIGN IS FOR THE REPLACEMENT OF THE EXISTING 170′-0 X 62′-6 CONTINUOUS I-BEAM BRIDGE, POLK DESIGN NO. 687, FHWA NO. 041300, MAINT. NO. 7725.1R080.
SEMI-INTEGRAL ABUTMENTS PROPOSED WITH NON-STANDARD WIDTH (7′-0), NON-STANDARD DEPTH (4′-0), NON-BATTERED PILING, AND TIE-ROD ANCHORS FOR LATERAL RESISTANCE.
ALL OFFSETS ARE MEASURED FROM ℄ I-35/80.
ALL DIMENSIONS ARE IN FEET U.N.O.
BEAM TYPE - WPG, DEPTH = 6′-10.
TL-5 BRIDGE RAILING PROPOSED.
BRIDGE AESTHETICS TO BE INCORPORATED DURING FINAL DESIGN.
SEE BRIDGE CROSS SECTION AND STAGING ON SHEETS V.25-V.26.

UTILITY LEGEND

--E3--	ELECTRIC
--FO--	FIBER OPTIC
--FO2--	FIBER OPTIC
--FO3--	FIBER OPTIC
--FO4--	FIBER OPTIC
--FO6--	FIBER OPTIC
--FO8--	FIBER OPTIC
--FO9--	FIBER OPTIC
--TI--	TELEPHONE
--W3--	WATER
	POWER POLE

UTILITIES SHOWN ON THIS SHEET ARE FOR INFORMATION ONLY, SEE ROAD DESIGN SHEETS FOR FINAL UTILITY INFORMATION.

LOCATION

I-35 NB AND I-80 EB OVER U.S. 6 (HICKMAN ROAD)
T-79N R-25W
SECTIONS 29 & 32
WALNUT TOWNSHIP
POLK COUNTY
EXISTING FHWA NO. 041300
NEW FHWA NO. 41301
BRIDGE MAINT. NO. 7725.1R080
LATITUDE 41.614945°
LONGITUDE -93.776680°

PRELIMINARY

MINIMUM VERTICAL CLEARANCE TO PROPOSED HICKMAN ROAD

OVERHEAD STATION = 419+14.95, OFFSET 3.17′ RT.
OVERHEAD ELEVATION = 908.90
DEPTH OF SUPERSTRUCTURE = 7.58′
LIVE LOAD DEFLECTION = 0.30′
UNDERPASS STATION (D.D.I. W.B.) = 1676+85.78, OFFSET 30.38′ LT.
UNDERPASS ELEVATION = 883.32
MINIMUM VERTICAL CLEARANCE = 17.70′

HICKMAN ROAD TRAFFIC ESTIMATE

2019 AADT	32,500	V.P.D.
2042 AADT	49,600	V.P.D.
2042 DHV	4,530	V.P.H.
TRUCKS	4	%
TOTAL DESIGN ESALs	-	

I-35 NB/I-80 EB TRAFFIC ESTIMATE

2019 AADT	51,400	V.P.D.
2042 AADT	68,700	V.P.D.
2042 DHV	6,810	V.P.H.
TRUCKS	14	%
TOTAL DESIGN ESALs	-	

DESIGN FOR 2° SKEW (R.A.)

240′-0 X 88′-4 WELDED PLATE GIRDER BRIDGE

240′-0 SPAN

SITUATION PLAN - FINAL NB/EB

STATION 419+53.95, 42.00′ RT. (℄ I-35/80) MAY, 2022

POLK COUNTY

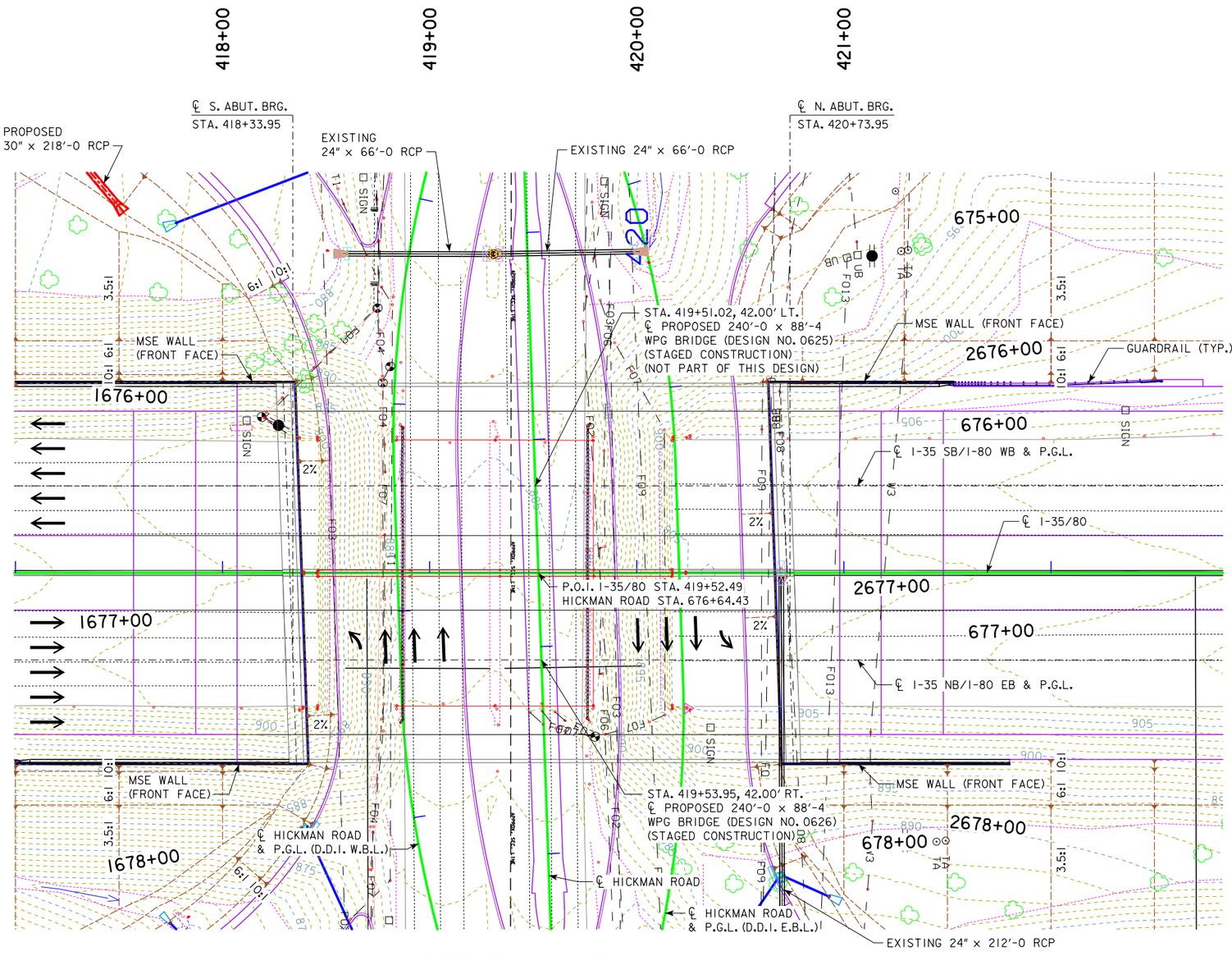
IOWA DEPARTMENT OF TRANSPORTATION

DESIGN SHEET NO. 5 OF 8 FILE NO. 32251 DESIGN NO. 0626

SHUCK-BRITSON

DESIGN TEAM SMK/JAG/SR	S.B.I. NO. 121.0240.01C	POLK COUNTY	PROJECT NUMBER IM-080-3(272)125--13-77	SHEET NUMBER V.23

BENCHMARK BM55: NORTHING 7497393.85 EASTING 18481482.57 ELEVATION 929.83 FOUND BRASS PLUG IN CONCRETE/NORTH SIDE OF HICKMAN ROAD



SITE PLAN - FINAL

ALL DIMENSIONS IN FEET UNLESS NOTED OTHERWISE

N

0 ENGLISH 60
SCALE IN FEET

UTILITY LEGEND	
--E3--	ELECTRIC
--FO--	FIBER OPTIC
--FO2--	FIBER OPTIC
--FO3--	FIBER OPTIC
--FO4--	FIBER OPTIC
--FO6--	FIBER OPTIC
--FO8--	FIBER OPTIC
--FO9--	FIBER OPTIC
--TI--	TELEPHONE
--W3--	WATER
	POWER POLE

UTILITIES SHOWN ON THIS SHEET ARE FOR INFORMATION ONLY, SEE ROAD DESIGN SHEETS FOR FINAL UTILITY INFORMATION.

PRELIMINARY

DESIGN FOR 2° SKEW (R.A.)

240'-0 X 88'-4 WELDED PLATE GIRDER BRIDGE

240'-0 SPAN

SITE PLAN - FINAL NB/EB

STATION 419+53.95, 42.00' RT. (℄ I-35/80) MAY, 2022

POLK COUNTY

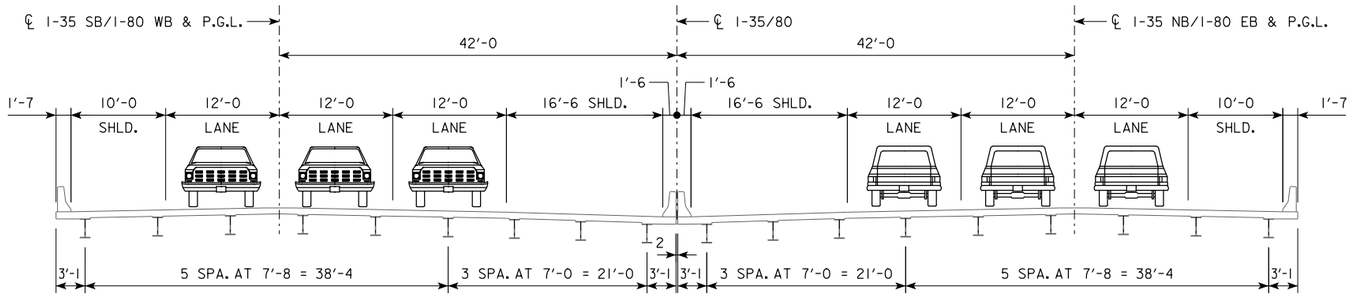
IOWA DEPARTMENT OF TRANSPORTATION

DESIGN SHEET NO. 6 OF 8 FILE NO. 32251 DESIGN NO. 0626

SHUCK-BRITSON

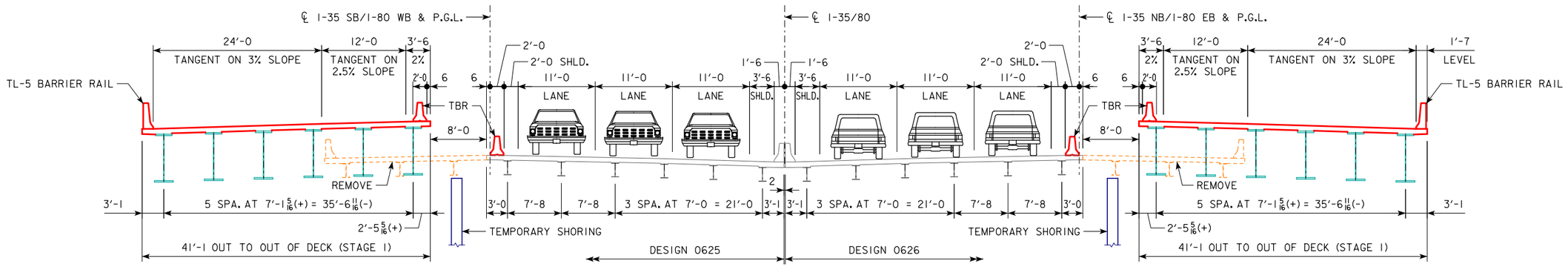
DESIGN TEAM SMK/JAG/SR	S.B.I. NO. 121.0240.01C	POLK COUNTY	PROJECT NUMBER IM-080-3(272)125--13-77	SHEET NUMBER V.24

5/24/2022 2:34:49 PM V8i_IDOTBridge pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\77080060015\BRPrelim\Snyder\STR_77080272_Shuck-Britson_Z08.dgn TSL_77_0626_06 11x17_pdf.pltcfg



EXISTING I-35/80 TYPICAL SECTION

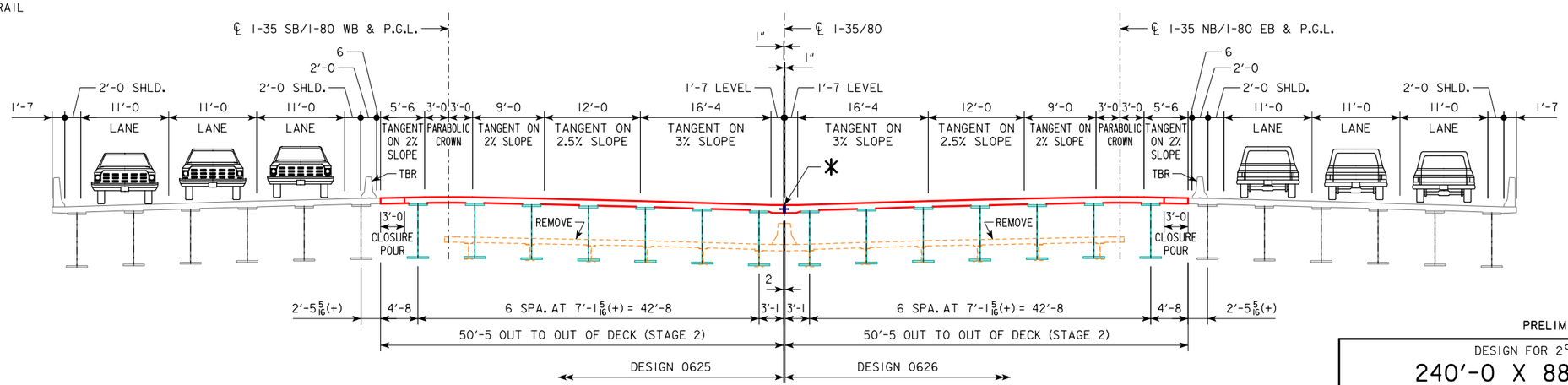
(LOOKING NORTH)



STAGE 1A

(LOOKING NORTH)

NOTE:
TBR = TEMPORARY BARRIER RAIL



STAGE 2B

(LOOKING NORTH)

* INSTALL NEW MEDIAN SLOTTED DRAIN.
EDGE OF DECK THICKNESS = 1'-0.

STAGING NOTES:

STAGE NUMBERING SHOWN CORRESPONDS WITH THE STAGES IN THE ROADWAY PLANS.

SEE TRAFFIC STAGING SHEETS IN THESE PLANS FOR LOCATION OF TBR.

SHUCK-BRITSON

PRELIMINARY

DESIGN FOR 2° SKEW (R.A.)

240'-0 X 88'-4 WELDED PLATE GIRDER BRIDGE

240'-0 SPAN

STAGING

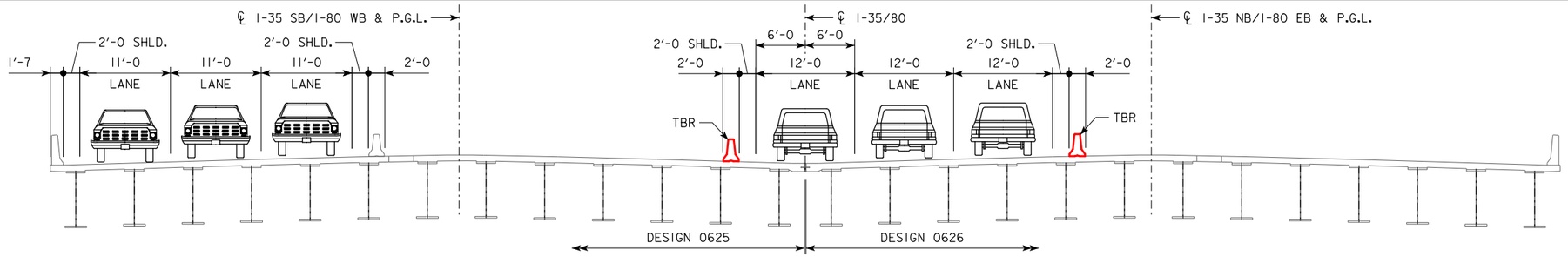
STATION 419+53.95, 42.00' RT. (℄ I-35/80) MAY, 2022

POLK COUNTY

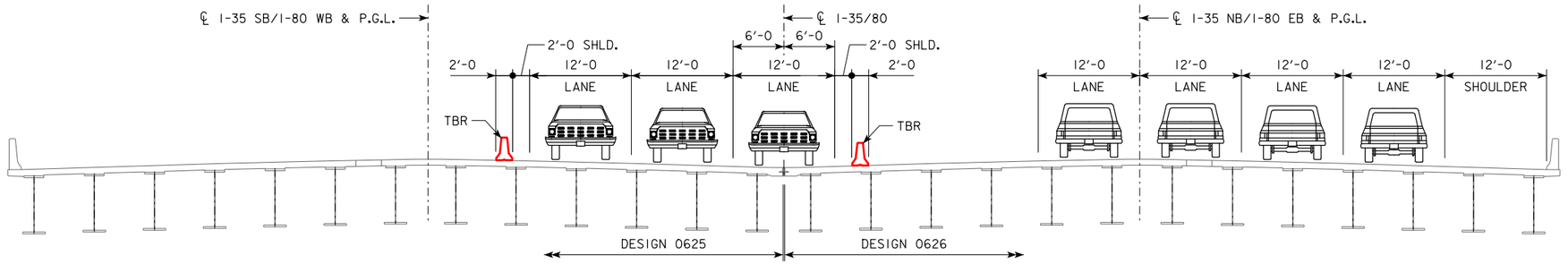
IOWA DEPARTMENT OF TRANSPORTATION

DESIGN SHEET NO. 7 OF 8 FILE NO. 32251 DESIGN NO. 0626

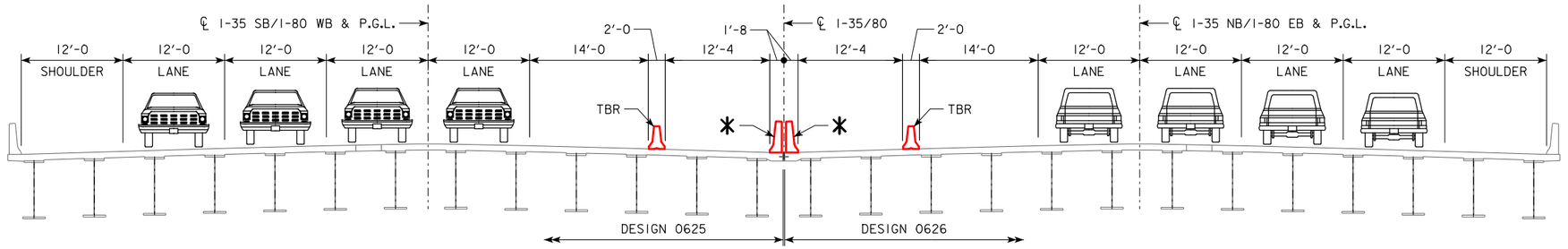
DESIGN TEAM SMK/JAG/SR	S.B.I. NO. 121.0240.01C	POLK COUNTY	PROJECT NUMBER IM-080-3(272)125--13-77	SHEET NUMBER V.25



STAGE 2C
(LOOKING NORTH)



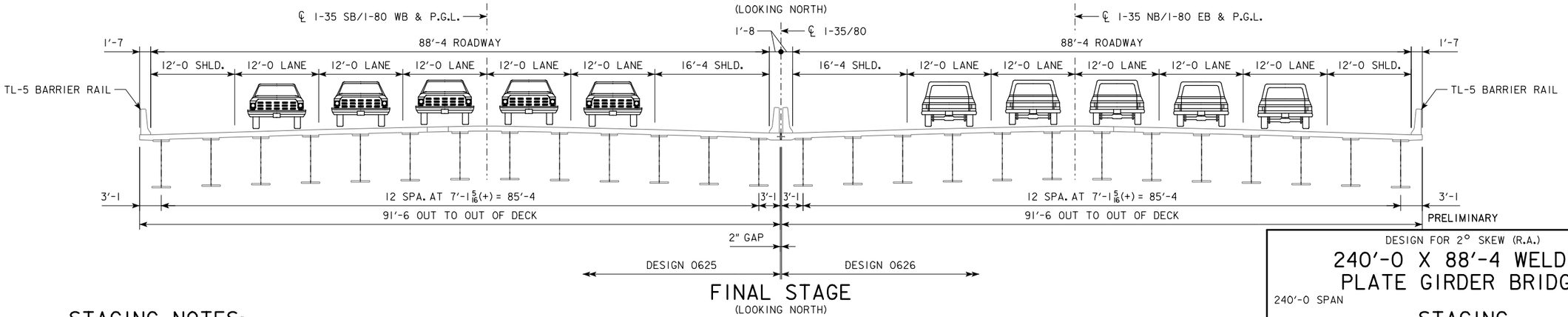
STAGE 2D
(LOOKING NORTH)



STAGE 2E
(LOOKING NORTH)

* INSTALL TL-5 BARRIER RAIL BY DRILLING AND DOWELING INTO EXISTING DECK

NOTE:
TBR = TEMPORARY BARRIER RAIL



FINAL STAGE
(LOOKING NORTH)

PRELIMINARY

STAGING NOTES:

STAGE NUMBERING SHOWN CORRESPONDS WITH THE STAGES IN THE ROADWAY PLANS.

SEE TRAFFIC STAGING SHEETS IN THESE PLANS FOR LOCATION OF TBR.

SHUCK-BRITSON

DESIGN FOR 2° SKEW (R.A.)

240'-0 X 88'-4 WELDED PLATE GIRDER BRIDGE

240'-0 SPAN

STAGING

STATION 419+53.95, 42.00' RT. (℄ I-35/80) MAY, 2022

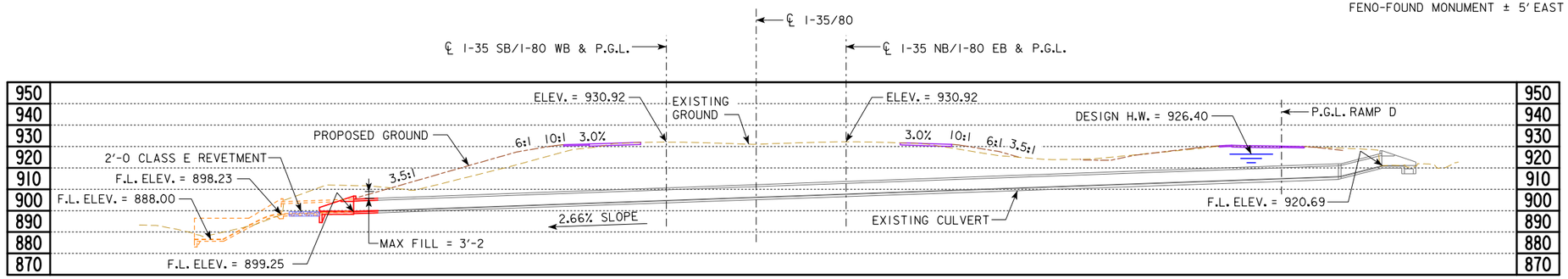
POLK COUNTY

IOWA DEPARTMENT OF TRANSPORTATION

DESIGN SHEET NO. 8 OF 8 FILE NO. 32251 DESIGN NO. 0626

DESIGN TEAM SMK/JAG/SR S.B.I. NO. 121.0240.01C | POLK COUNTY | PROJECT NUMBER IM-080-3(272)125--13-77 | SHEET NUMBER V.26

BENCH MARK NO. G032: NORTHING 7491564.87 EASTING 18483573.86 ELEVATION 937.63
FENO-FOUND MONUMENT ± 5' EAST OF EAST SHOULDER NB I-35, 500' SOUTH OF UNIVERSITY AVE.



LONGITUDINAL SECTION ALONG ℄ CULVERT

(RCP AND SPLASH PAD NOT SHOWN.)

LOCATION

I-35/80
T-79N R-25W
SECTION 32
WALNUT TOWNSHIP
POLK COUNTY
LATITUDE 41.602500°
LONGITUDE -93.776889°

UTILITIES LEGEND:

F05 - FIBER OPTIC - WIND STREAM
W - WATER - CLIVE PUBLIC WATER WORKS

UTILITIES SHOWN ON THIS SHEET ARE FOR INFORMATION ONLY, SEE ROAD DESIGN SHEETS FOR FINAL UTILITY INFORMATION.

PROFILE GRADE I-35/80

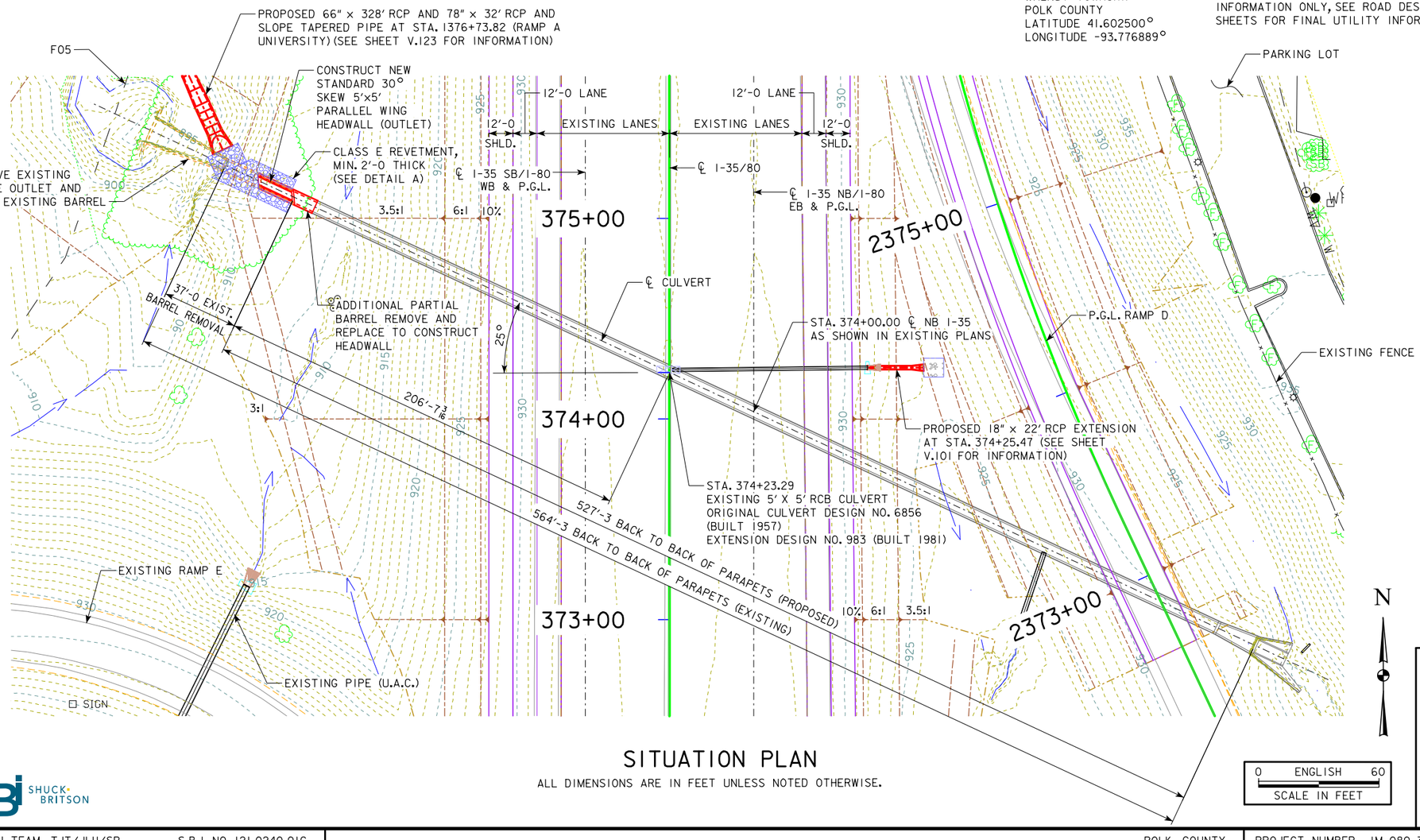
(USE AS CONSTRUCTED)

HYDRAULIC DATA

DRAINAGE AREA = 166.2 ACRES
Q_{50} = 300 CFS
HW ELEV. = 926.40
STREAM SLOPE = 28.5 FT./MI.

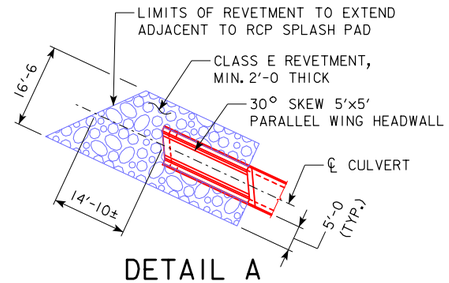
I-35/80 TRAFFIC ESTIMATE

2015 AADT	90,100	V.P.D.
2042 AADT	139,800	V.P.D.
2042 DHV	12,870	V.P.H.
TRUCKS	13	%
TOTAL DESIGN ESALs	-	



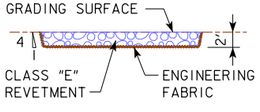
SITUATION PLAN

ALL DIMENSIONS ARE IN FEET UNLESS NOTED OTHERWISE.



DETAIL A

SHOWING EXTENTS OF CLASS E REVETMENT AT OUTLET.
RCP AND SPLASH PAD NOT SHOWN.



TYPICAL CHANNEL PROTECTION

ESTIMATED REVETMENT QUANTITIES INCLUDED WITH ROAD PLANS

LOCATION	REVETMENT CL. "E" (TON)	ENGINEERING FABRIC (SY)	EXCAVATION (CY)
INLET	---	---	---
OUTLET	51.1	79.6	31.9
TOTALS	51.1	79.6	31.9

EXCAVATION QUANTITY CALCULATED FROM GRADING SURFACE.
QUANTITIES SHOWN FOR INFORMATION ONLY. SEE ROAD SHEETS.

PRELIMINARY

DESIGN FOR 25° SKEW

5'-0 X 5'-0 RCB CULVERT PARTIAL REMOVAL (WB)

SITUATION PLAN

STA. 374+23.29 (℄ I-35/80) MAY, 2022

POLK COUNTY

IOWA DEPARTMENT OF TRANSPORTATION

DESIGN SHEET NO. 1 OF 1 FILE NO. 32251 DESIGN NO. 0825

SHUCK-BRITSON

DESIGN TEAM TJT/JLH/SR | S.B.I. NO. 121.0240.01C | POLK COUNTY | PROJECT NUMBER IM-080-3(268)126--13-77 | SHEET NUMBER V.27

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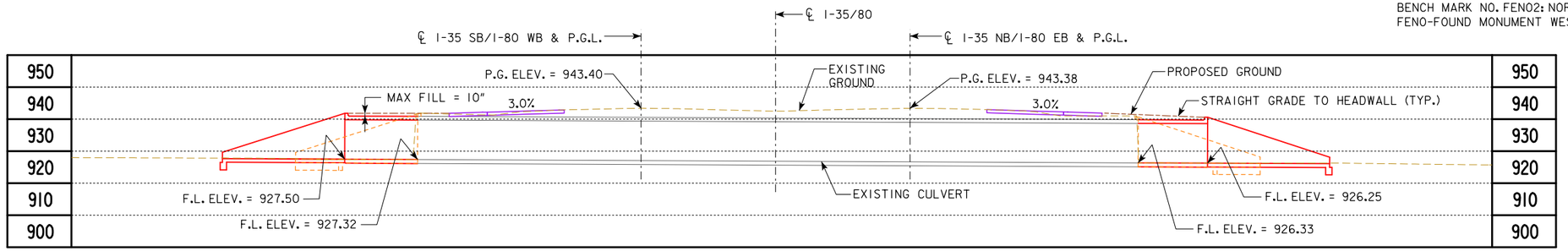
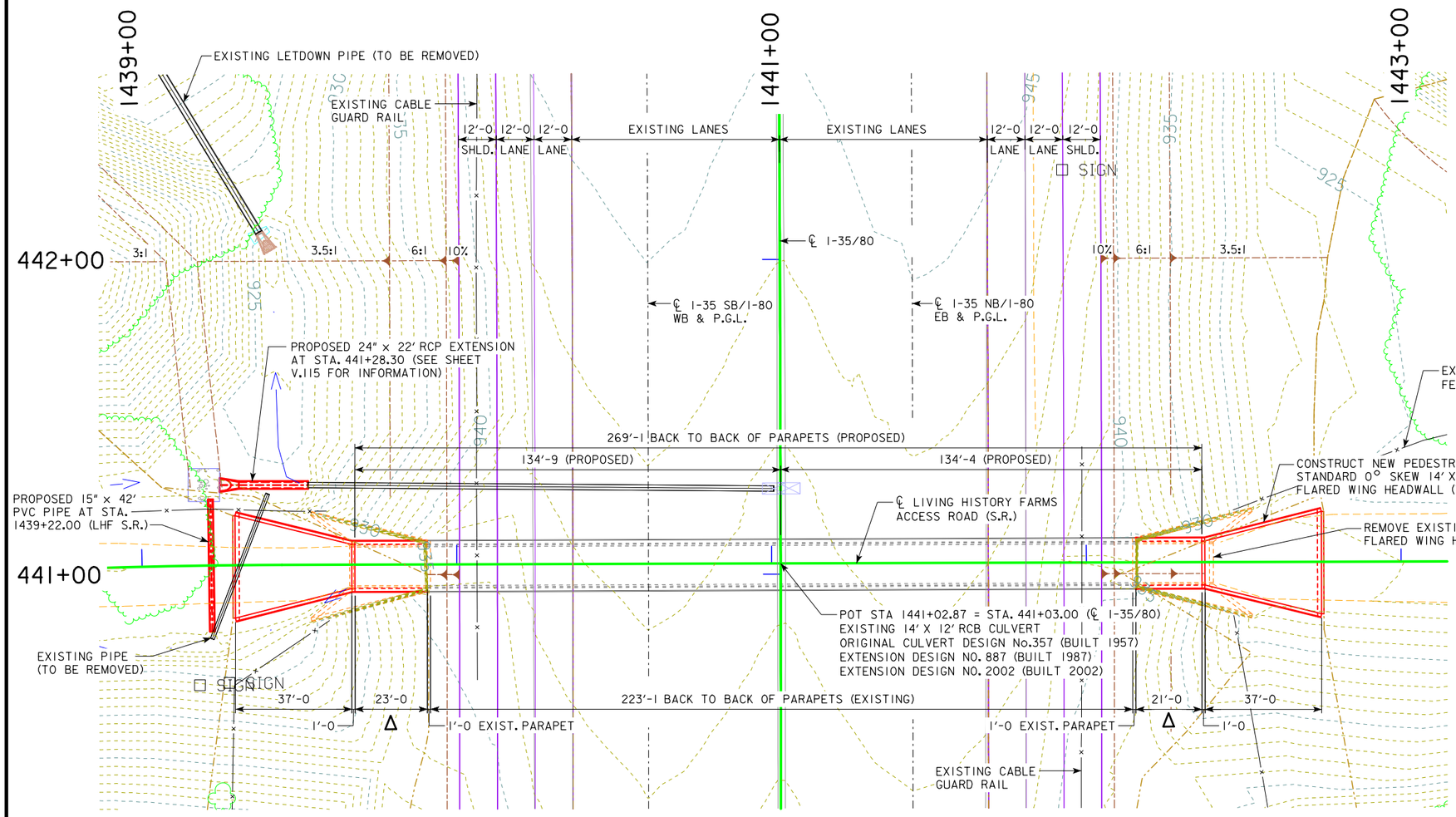
BENCH MARK NO. FENO2: NORTHING 7496684.19 EASTING 18483459.91 ELEVATION 895.21
FENO-FOUND MONUMENT WEST SIDE OF I-35 AND EAST OF SB ON RAMP OF HICKMAN ROAD.



LONGITUDINAL SECTION ALONG ℄ CULVERT



SITUATION PLAN

ALL DIMENSIONS ARE IN FEET UNLESS NOTED OTHERWISE.

0 ENGLISH 40
SCALE IN FEET

PROPOSED GRADE FOR LIVING HISTORY FARMS ACCESS ROAD

VERTICAL CURVE FOR LIVING HISTORY FARMS ACCESS ROAD HAS NOT BEEN DEFINED, CULVERT EXTENSIONS WILL BE BUILT ON A STRAIGHT GRADE FROM EXISTING CULVERT ENDS TO ELEVATIONS SHOWN ON LONGITUDINAL SECTION.

PROFILE GRADE I-35/80

(USE AS CONSTRUCTED)

I-35/80 M.L. CURVE DATA

VPC STA. 437+32.90
VPI STA. 440+32.90
VPT STA. 443+32.89
Δ = 0° 42' 0.00" (LT.)
T = 300.00
L = 599.99
R = 49,109.96
E = 0.92

LHF S.R. CURVE DATA

PC STA. 1436+03.29
PI STA. 1437+74.27
PT STA. 1439+44.42
Δ = 9° 46' 22.03" (RT.)
T = 170.98
L = 341.13
R = 2,000.00
E = 7.30

UTILITIES LEGEND:

NO KNOWN UTILITIES

UTILITIES SHOWN ON THIS SHEET ARE FOR INFORMATION ONLY, SEE ROAD DESIGN SHEETS FOR FINAL UTILITY INFORMATION.

I-35/80 TRAFFIC ESTIMATE

2015 AADT	108,600	V.P.D.
2042 AADT	163,400	V.P.D.
2042 DHV	15,610	V.P.H.
TRUCKS	13	%
TOTAL DESIGN ESALs	-	

NOTES:

HEADWALL IN-KIND AESTHETICS AND SAFETY RAIL TO BE INCORPORATED IN FINAL DESIGN.

EXISTING FROST TROUGHS TO BE TRANSITIONED TO MATCH CURRENT PEDESTRIAN TUNNEL STANDARD.

Δ EXTENSION LENGTH FROM FRONT OF EXISTING PARAPET TO BACK OF NEW PARAPET.

LOCATION

LIVING HISTORY FARMS TRAIL
UNDER I-35/80
T-79N R-25W
SECTION 29
WALNUT TOWNSHIP
POLK COUNTY
LATITUDE 41.620833°
LONGITUDE -93.776806°

PRELIMINARY

DESIGN FOR 0° SKEW

14'-0 X 12'-0 RCB CULVERT EXTENSION (WB)

SITUATION PLAN

STA. 441+03.00 (℄ I-35/80) MAY, 2022

POLK COUNTY
IOWA DEPARTMENT OF TRANSPORTATION
DESIGN SHEET NO. 1 OF 1 FILE NO. 32251 DESIGN NO. 1125

SHUCK-BRITSON

DESIGN TEAM TJT/JLH/SR	S.B.I. NO. 121.0240.01C		POLK COUNTY	PROJECT NUMBER IM-080-3(268)126--13-77	SHEET NUMBER V.28

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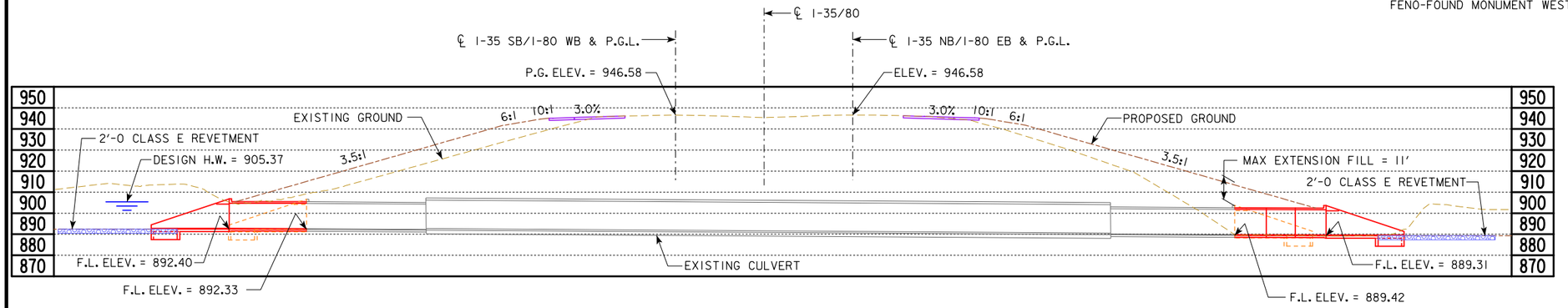
BENCH MARK NO. FEN02: NORTHING 7496684.19 EASTING 18483459.91 ELEVATION 895.21
FEN0-FOUND MONUMENT WEST SIDE OF I-35 AND EAST OF SB ON RAMP OF HICKMAN ROAD.

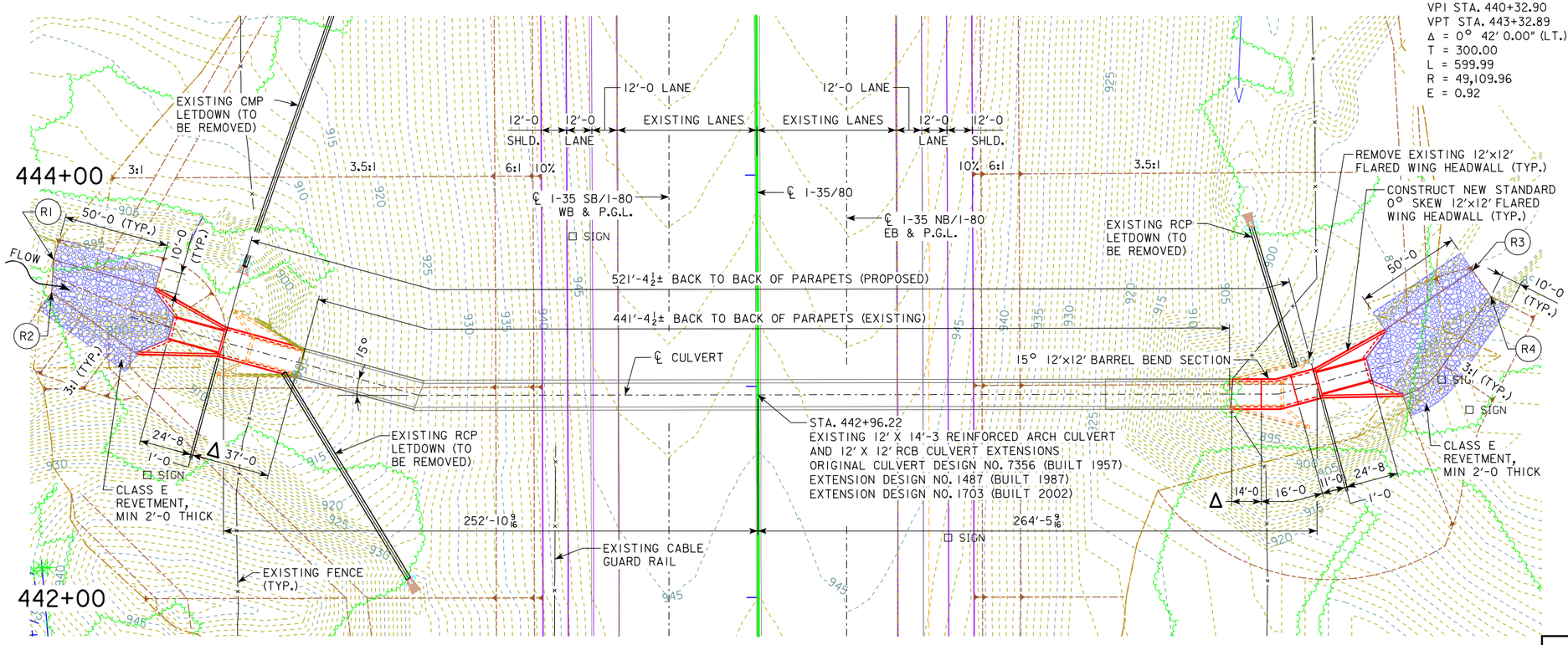


LONGITUDINAL SECTION ALONG ℄ CULVERT

NOTES:

AN IOWA DNR FLOOR PLAIN PERMIT IS REQUIRED.

Δ EXTENSION LENGTH FROM FRONT OF EXISTING PARAPET TO BACK OF NEW PARAPET.



CURVE DATA

VPC STA. 437+32.90
VPI STA. 440+32.90
VPT STA. 443+32.89
Δ = 0° 42' 0.00" (LT.)
T = 300.00
L = 599.99
R = 49,109.96
E = 0.92

PROFILE GRADE I-35/80

(USE AS CONSTRUCTED)

HYDRAULIC DATA

DRAINAGE AREA = 1,419 ACRES
Q_{50} = 1,653 CFS
HW ELEV. = 905.37
Q_{100} = 1,931 CFS
HW ELEV. = 906.80
STREAM SLOPE = 32.2 FT./MI.

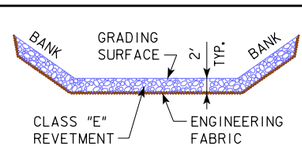
UTILITIES LEGEND:

NO KNOWN UTILITIES

UTILITIES SHOWN ON THIS SHEET ARE FOR INFORMATION ONLY, SEE ROAD DESIGN SHEETS FOR FINAL UTILITY INFORMATION.

I-35/80 TRAFFIC ESTIMATE

2015 AADT	108,600	V.P.D.
2042 AADT	163,400	V.P.D.
2042 DHV	15,610	V.P.H.
TRUCKS	13	%
TOTAL DESIGN ESALs	-	



TYPICAL CHANNEL PROTECTION

ESTIMATED REVETMENT QUANTITIES INCLUDED WITH ROAD PLANS

LOCATION	REVETMENT CL. "E" (TON)	ENGINEERING FABRIC (SY)	EXCAVATION (CY)
INLET	282.9	309.6	176.8
OUTLET	335.8	364.0	209.9
TOTALS	618.7	673.6	386.7

EXCAVATION QUANTITY CALCULATED FROM GRADING SURFACE. QUANTITIES SHOWN FOR INFORMATION ONLY. SEE ROAD SHEETS.

REVETMENT LAYOUT:

- (R1) 443+61.32, 332.98' LT., END CHANNEL LINING
- (R2) 443+45.94, 333.93' LT., END CHANNEL LINING
- (R3) 443+53.25, 338.35' RT., END CHANNEL LINING
- (R4) 443+40.96, 346.96' RT., END CHANNEL LINING

SITUATION PLAN

ALL DIMENSIONS ARE IN FEET UNLESS NOTED OTHERWISE.

N

0 ENGLISH 60
SCALE IN FEET

LOCATION

I-35/80
T-79N R-25W
SECTION 29
WALNUT TOWNSHIP
POLK COUNTY
LATITUDE 41.621361°
LONGITUDE -93.776806°

PRELIMINARY

DESIGN FOR 0° SKEW

12'-0 X 12'-0 RCB CULVERT EXTENSION (WB)

SITUATION PLAN

STA. 442+96.22 (℄ I-35/80) MAY, 2022

POLK COUNTY

IOWA DEPARTMENT OF TRANSPORTATION

DESIGN SHEET NO. 1 OF 1 FILE NO. 32251 DESIGN NO. 1225

SHUCK-BRITSON

DESIGN TEAM TJT/JLH/SR S.B.I. NO. 121.0240.01C | POLK COUNTY | PROJECT NUMBER IM-080-3(268)126--13-77 | SHEET NUMBER V.29

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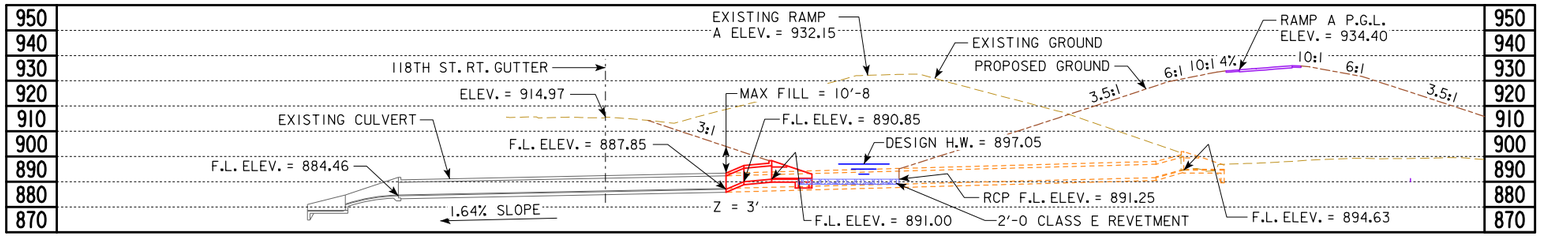
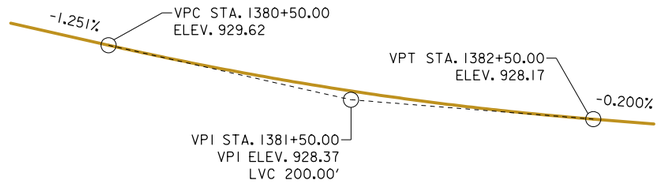


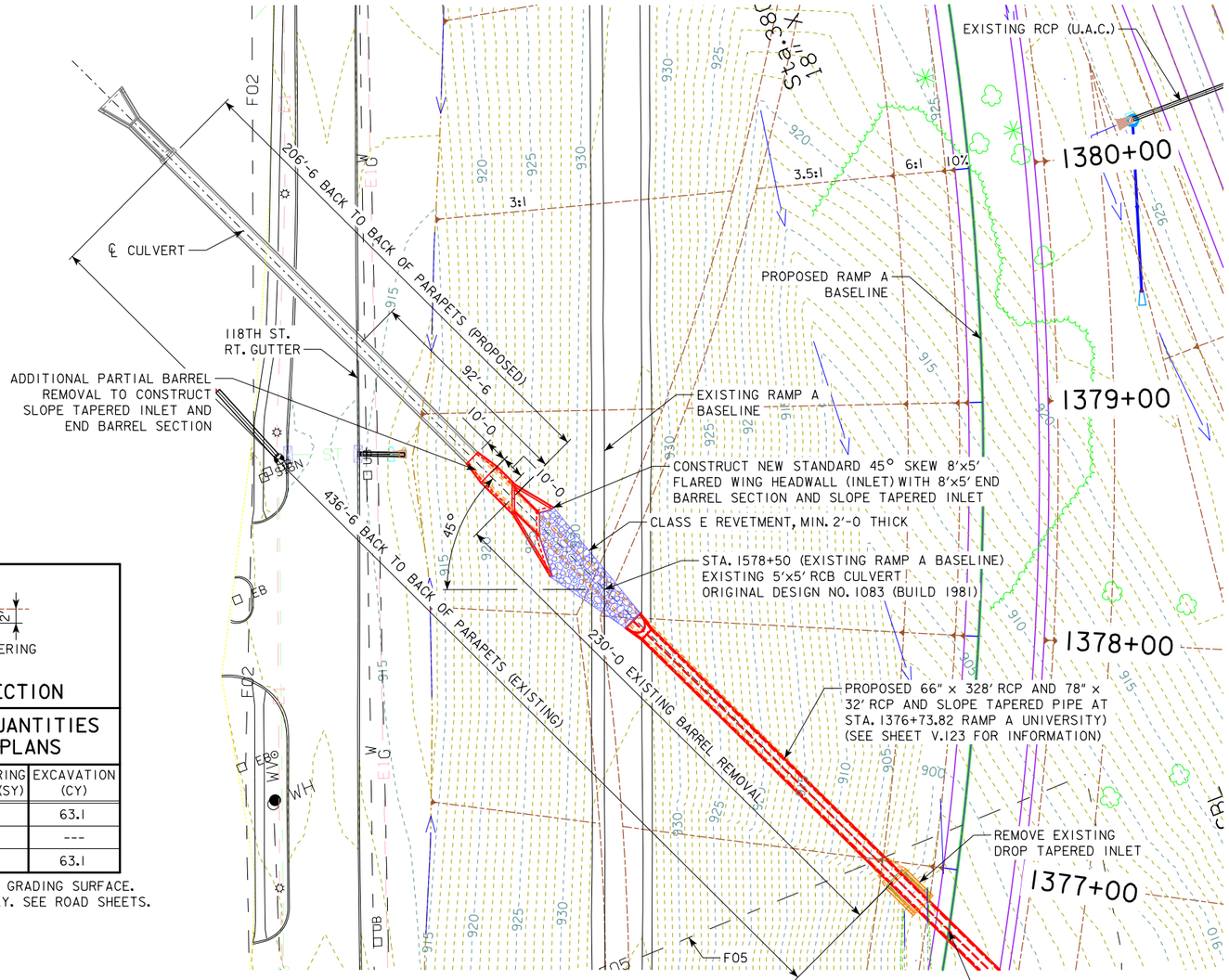
LONGITUDINAL SECTION ALONG ℄ CULVERT

PROPOSED RCP AND SLOPE TAPERED PIPE NOT SHOWN FOR CLARITY.

BENCH MARK NO. FEN01: NORTHING 7494509.38 EASTING 18483375.02 ELEVATION 915.02
FEN0-FOUND MONUMENT WEST SIDE OF I-35 AT START OF UNIVERSITY OFF RAMP.

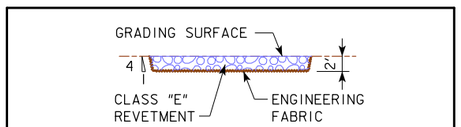


PROPOSED PROFILE GRADE RAMP A



SITUATION PLAN

ALL DIMENSIONS ARE IN FEET UNLESS NOTED OTHERWISE.



TYPICAL CHANNEL PROTECTION

ESTIMATED REVETMENT QUANTITIES INCLUDED WITH ROAD PLANS

LOCATION	REVETMENT CL. "E" (TON)	ENGINEERING FABRIC (SY)	EXCAVATION (CY)
INLET	101.0	126.2	63.1
OUTLET	---	---	---
TOTALS	101.0	126.2	63.1

EXCAVATION QUANTITY CALCULATED FROM GRADING SURFACE.
QUANTITIES SHOWN FOR INFORMATION ONLY. SEE ROAD SHEETS.

CURVE DATA PROPOSED RAMP A

PRC STA. 1373+62.42
Δ = 39° 01' 11.45" (LT.)
T = 474.78
L = 912.57
E = 81.62
R = 1,340.00
PI STA. 1378+37.20
PT STA. 1382+75.00

HYDRAULIC DATA

DRAINAGE AREA = 188.7 ACRES
Q_{50} = 320 CFS
HW ELEV. = 897.05
STREAM SLOPE = 86.6 FT./MI.

UTILITIES LEGEND:

F02 - FIBER OPTIC - CENTURYLINK
F05 - FIBER OPTIC - WINDSTREAM
EI - ELECTRIC - MIDAMERICAN ENERGY
G - GAS - MIDAMERICAN ENERGY
W - WATER - CLIVE PUBLIC WATER WORKS

UTILITIES SHOWN ON THIS SHEET ARE FOR INFORMATION ONLY, SEE ROAD DESIGN SHEETS FOR FINAL UTILITY INFORMATION.

I-35/80 TRAFFIC ESTIMATE

2015 AADT	90,100	V.P.D.
2042 AADT	139,800	V.P.D.
2042 DHV	12,870	V.P.H.
TRUCKS	13	%
TOTAL DESIGN ESALs	-	

RAMP A TRAFFIC ESTIMATE

2015 AADT	10,600	V.P.D.
2042 AADT	16,400	V.P.D.
2042 DHV	1,160	V.P.H.
TRUCKS	1.4	%
TOTAL DESIGN ESALs	-	

LOCATION

I-35 SB/I-80 WB EXIT TO
UNIVERSITY EXISTING RAMP A
T-79N R-25W
SECTION 32
WALNUT TOWNSHIP
POLK COUNTY
LATITUDE 41.603806°
LONGITUDE -93.778306°

PRELIMINARY



0 ENGLISH 60
SCALE IN FEET

DESIGN FOR 45° SKEW

5'-0 X 5'-0 RCB CULVERT PARITAL REMOVAL (WB) SITUATION PLAN

STA. 1578+50.00 (℄ EXISTING RAMP A - UNIVERSITY)
STA. 1376+73.82 (℄ PROPOSED RAMP A - UNIVERSITY)
MAY, 2022

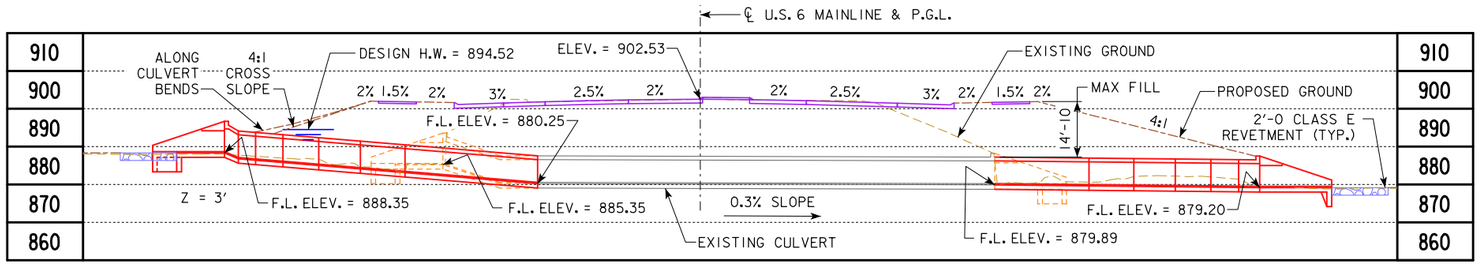
POLK COUNTY

IOWA DEPARTMENT OF TRANSPORTATION

DESIGN SHEET NO. 1 OF 1 FILE NO. 32251 DESIGN NO. 0925

SHUCK-BRITSON

DESIGN TEAM TJT/JLH/SR	S.B.I. NO. 121.0240.01C	POLK COUNTY	PROJECT NUMBER IM-080-3(268)126--13-77	SHEET NUMBER V.30

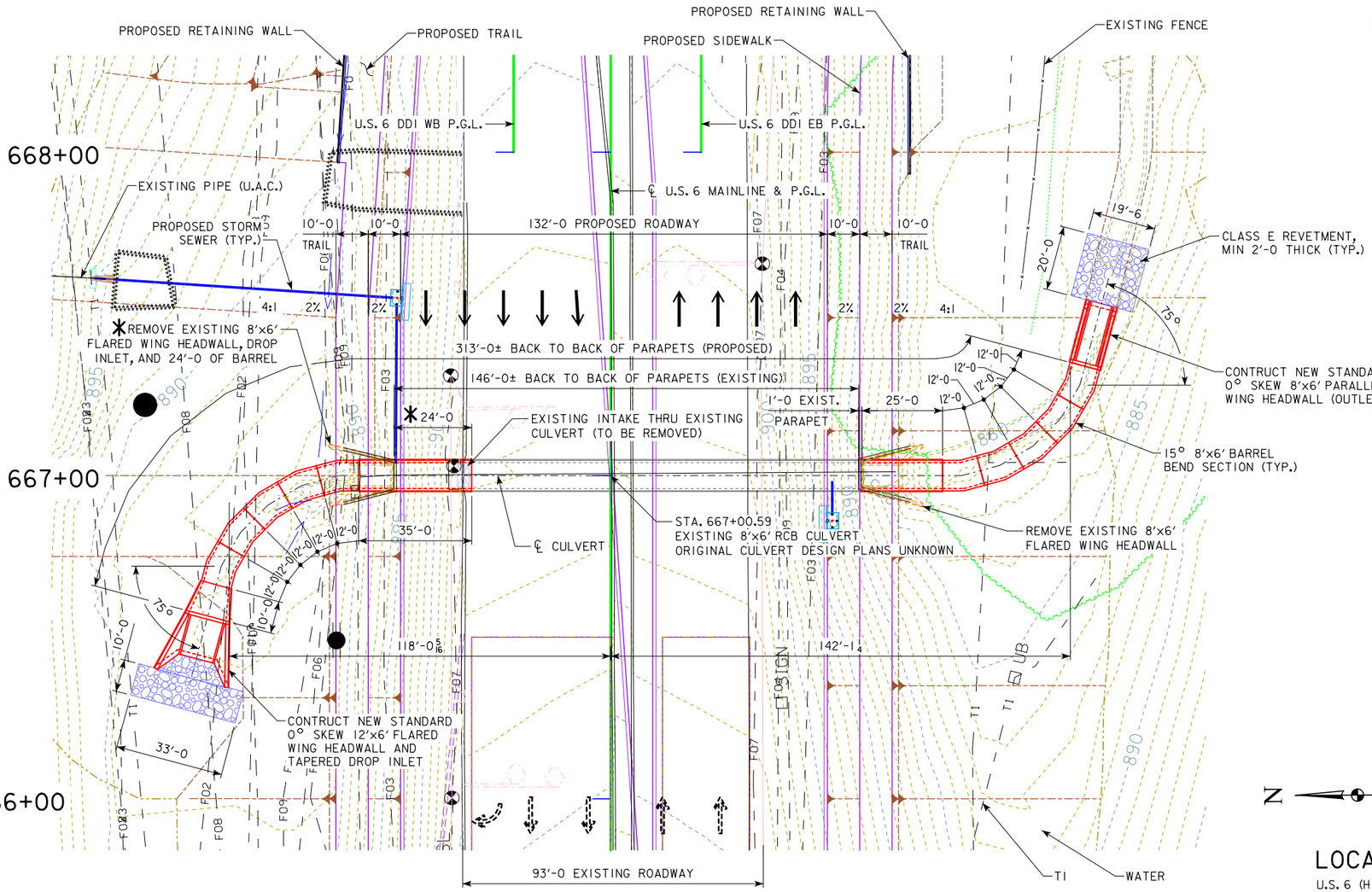


LONGITUDINAL SECTION ALONG ℄ CULVERT

BENCH MARK NO. BM55: NORTHING 7497393.85 EASTING 18481482.57 ELEVATION 929.83
URBANDALE BM55//FOUND BRASS PLUG IN CONCRETE/NORTH SIDE OF HICKMAN ROAD.



PROPOSED PROFILE GRADE (U.S. 6)



SITUATION PLAN

ALL DIMENSIONS ARE IN FEET UNLESS NOTED OTHERWISE.

0 ENGLISH 40
SCALE IN FEET

U.S. 6 TRAFFIC ESTIMATE

2015 AADT	39,600	V.P.D.
2042 AADT	57,100	V.P.D.
2042 DHV	5,060	V.P.H.
TRUCKS	6	%
TOTAL DESIGN ESALs	-	

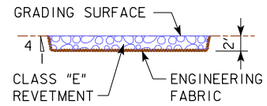
HYDRAULIC DATA

DRAINAGE AREA = 239.6 ACRES
Q_{50} = 520 CFS
HW ELEV. = 894.52
STREAM SLOPE = 76.2 FT./MI.

UTILITIES LEGEND:

E2 - ELECTRIC - CITY OF URBANDALE
FO2 - FIBER OPTIC - CENTURYLINK
FO3 - FIBER OPTIC - MCI/VERIZON
FO4 - FIBER OPTIC - ICN
FO6 - FIBER OPTIC - UNITE
FO8 - FIBER OPTIC - CONSOLIDATED COMMUNITY
FO9 - FIBER OPTIC -
TI - TELEPHONE - CENTURY LINK
W - WATER - CLIVE PUBLIC WORKS
W3 - WATER - DES MOINES WATER WORKS
- UTILITY POLE
- MANHOLE

UTILITIES SHOWN ON THIS SHEET ARE FOR INFORMATION ONLY, SEE ROAD DESIGN SHEETS FOR FINAL UTILITY INFORMATION.



TYPICAL CHANNEL PROTECTION

ESTIMATED REVETMENT QUANTITIES INCLUDED WITH ROAD PLANS

LOCATION	REVETMENT CL. "E" (TON)	ENGINEERING FABRIC (SY)	EXCAVATION (CY)
INLET	51.3	68.8	32.1
OUTLET	46.2	60.9	28.9
TOTALS	97.5	129.7	61.0

EXCAVATION QUANTITY CALCULATED FROM GRADING SURFACE.
QUANTITIES SHOWN FOR INFORMATION ONLY. SEE ROAD SHEETS.

LOCATION

U.S. 6 (HICKMAN ROAD)
T-79N R-25W
SECTION 29/32
WALNUT TOWNSHIP
POLK COUNTY
LATITUDE 41.614889°
LONGITUDE -93.780361°

PRELIMINARY

DESIGN FOR 0° SKEW

8'-0 X 6'-0 RCB CULVERT EXTENSION (WB)

SITUATION PLAN

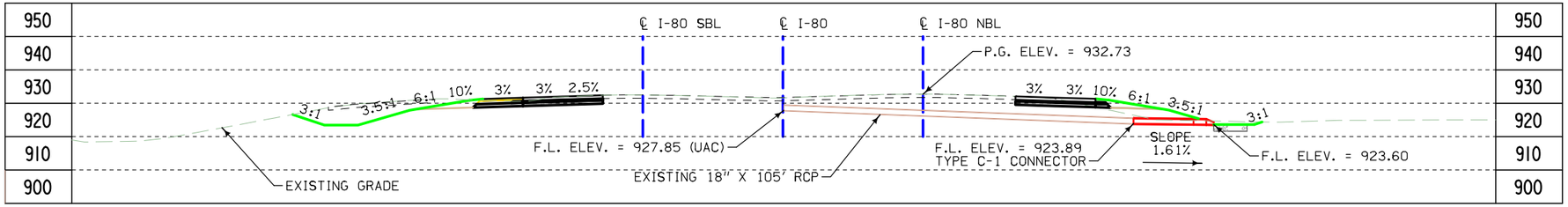
STA. 667+00.59 (U.S.6) MAY, 2022

POLK COUNTY
IOWA DEPARTMENT OF TRANSPORTATION

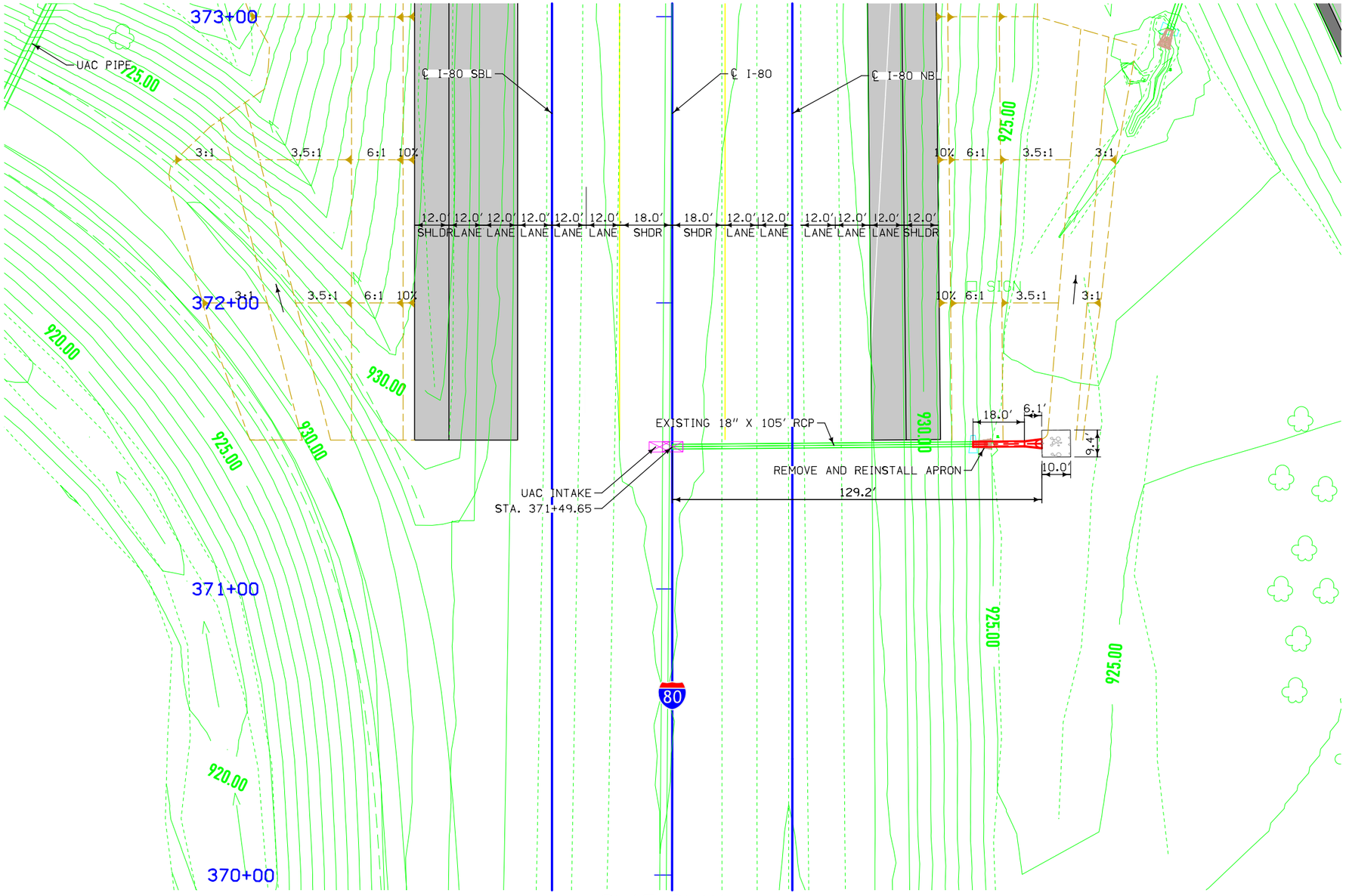
DESIGN SHEET NO. 1 OF 1 FILE NO. 32251 DESIGN NO. 1025

SHUCK-BRITSON

DESIGN TEAM TJT/JLH/SR S.B.I. NO. 121.0240.01C | POLK COUNTY | PROJECT NUMBER IM-080-3(268)126--13-77 | SHEET NUMBER V.31



LONGITUDINAL SECTION ALONG ℄ CULVERT



PLAT PLAN

N

0 ENGLISH 40
SCALE IN FEET

UTILITIES LEGEND:

REFER TO D.1

HYDRAULIC DATA

DRAINAGE AREA = MEDIAN

LOCATION

I-80
T-79N R-25W
SECTION 32
WALNUT TOWNSHIP
POLK COUNTY

DESIGN FOR 0° SKEW

18" X 18'
2000D REINFORCED CONCRETE PIPE EXTENSION
PLAT PLAN

STATION 371+49.65 NBL 5/24/2022

POLK COUNTY

IOWA DEPARTMENT OF TRANSPORTATION

DESIGN SHEET NO. ____ OF ____ FILE NO. _____ DESIGN NO. _____

FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER V.100

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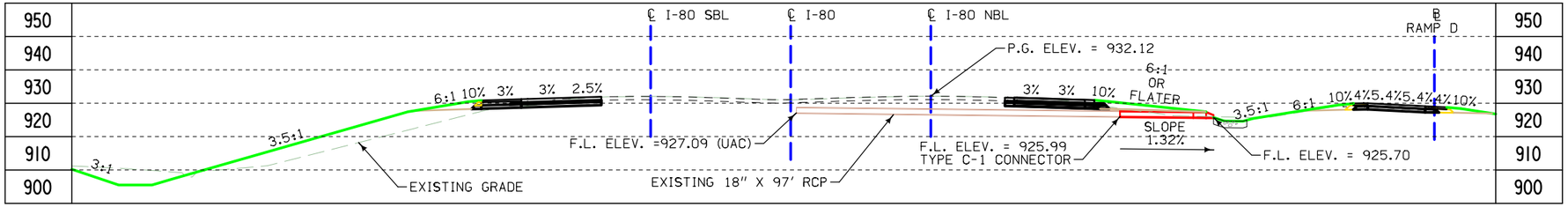

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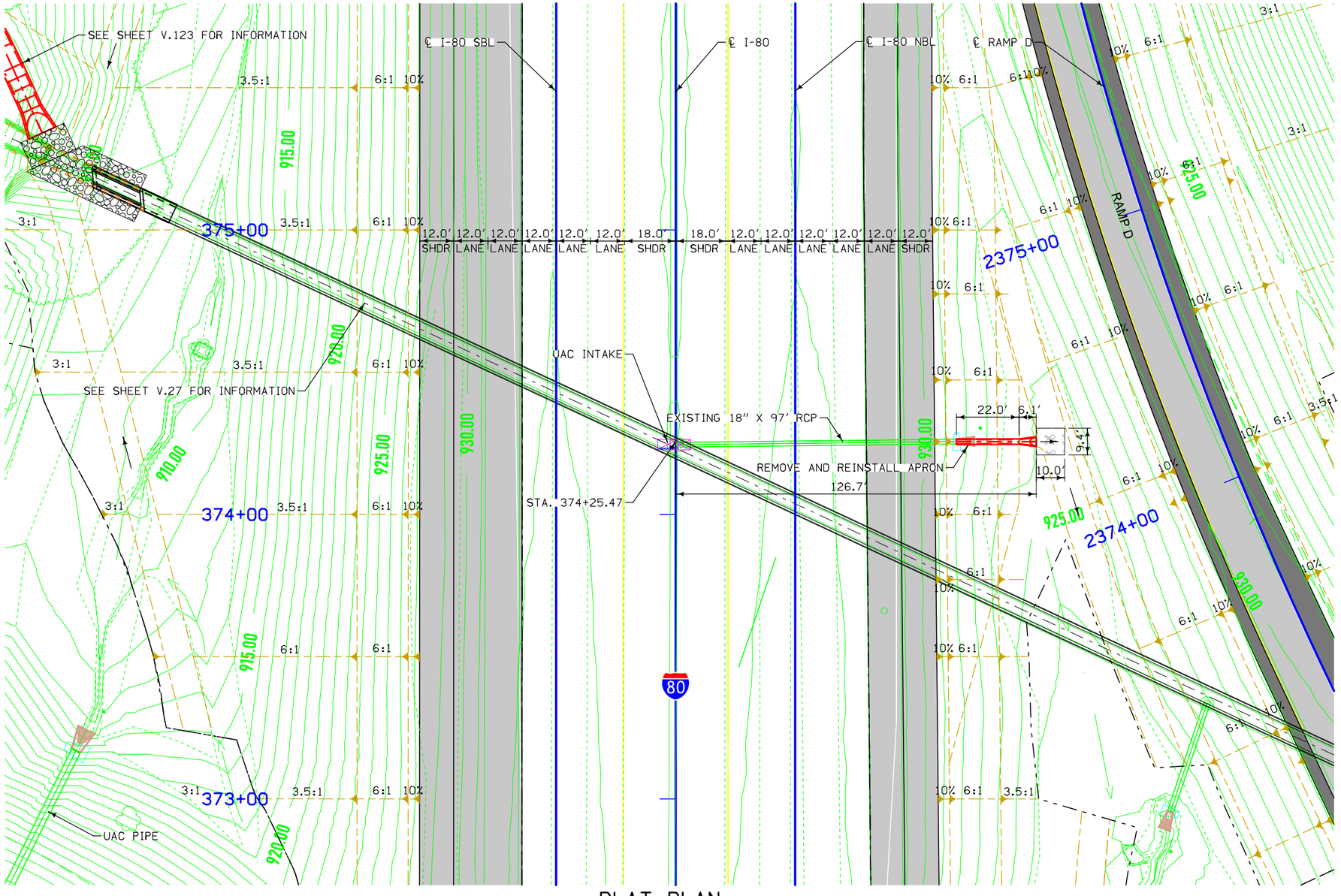


PLAT PLAN

N

0 ENGLISH 40
SCALE IN FEET

UTILITIES LEGEND:

REFER TO D.1

HYDRAULIC DATA

DRAINAGE AREA = MEDIAN

LOCATION

I-80
T-79N R-25W
SECTION 32
WALNUT TOWNSHIP
POLK COUNTY

DESIGN FOR 0° SKEW

18" X 22'
2000D REINFORCED CONCRETE PIPE EXTENSION
PLAT PLAN

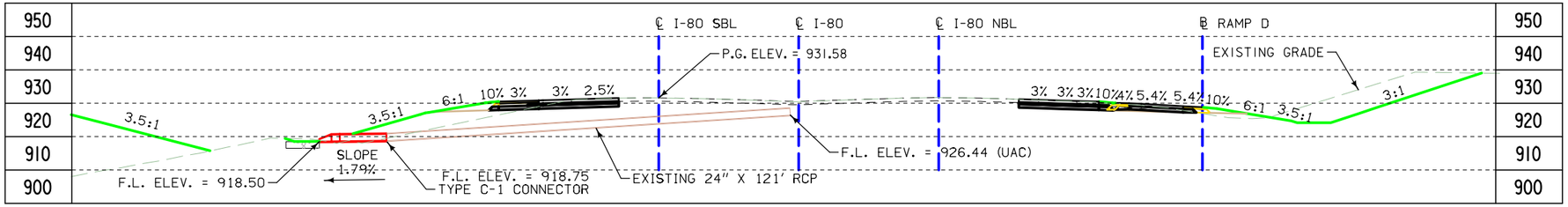
STATION 374+25.47 NBL 5/24/2022

POLK COUNTY

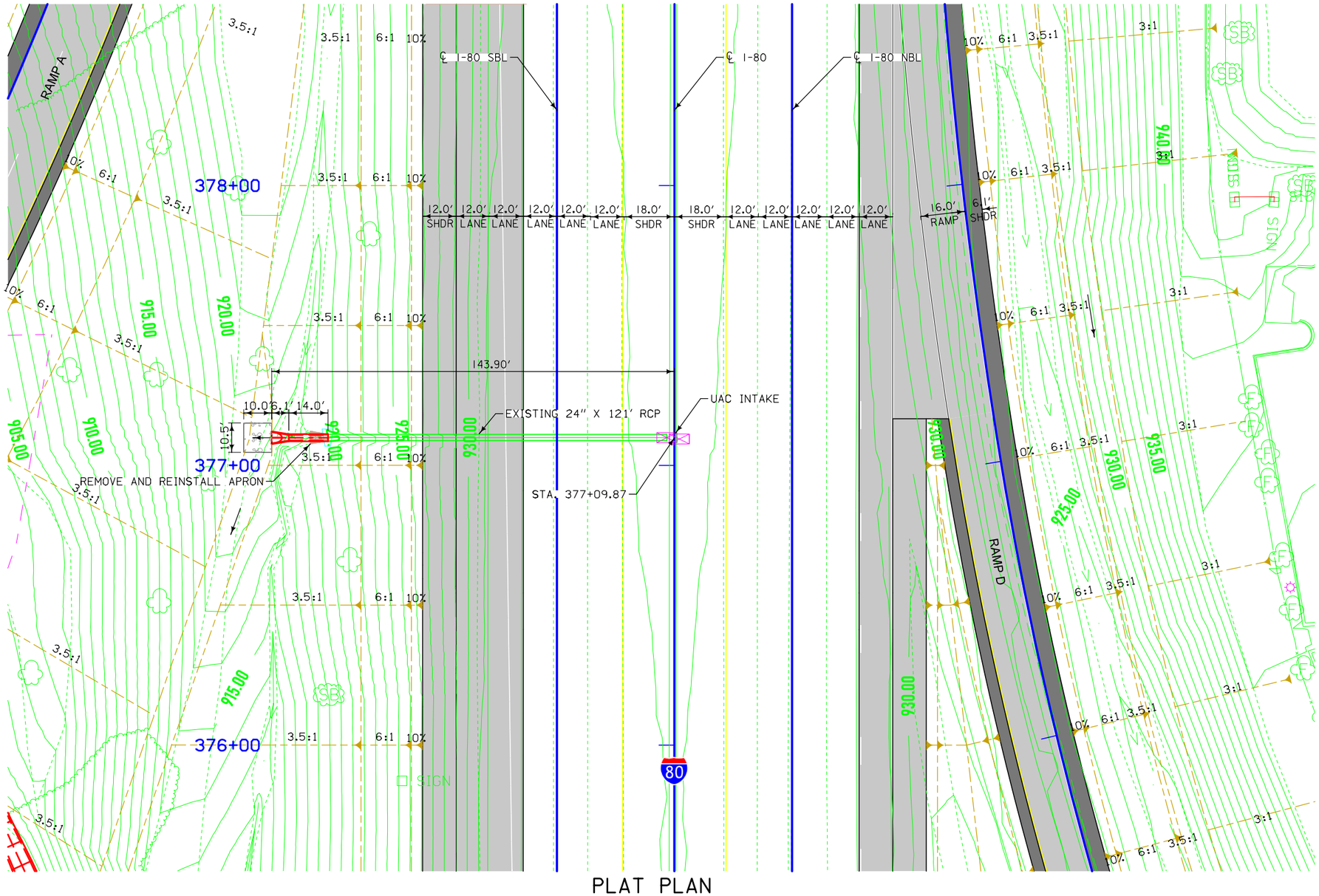
IOWA DEPARTMENT OF TRANSPORTATION

DESIGN SHEET NO. ___ OF ___ FILE NO. _____ DESIGN NO. _____

FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER V.101



LONGITUDINAL SECTION ALONG ℄ CULVERT



PLAT PLAN

0 ENGLISH 40
SCALE IN FEET

UTILITIES LEGEND:

REFER TO D.1

HYDRAULIC DATA

DRAINAGE AREA = MEDIAN

LOCATION

I-80
T-79N R-25W
SECTION 32
WALNUT TOWNSHIP
POLK COUNTY

DESIGN FOR 0° SKEW

24" X 14'
2000D REINFORCED CONCRETE PIPE EXTENSION
PLAT PLAN

STATION 377+09.87 SBL 5/24/2022

POLK COUNTY

IOWA DEPARTMENT OF TRANSPORTATION

DESIGN SHEET NO. ____ OF ____ FILE NO. _____ DESIGN NO. _____

FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER V.102

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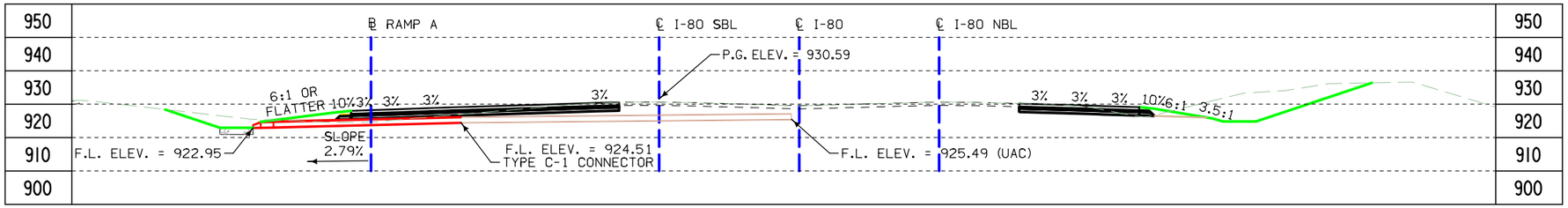
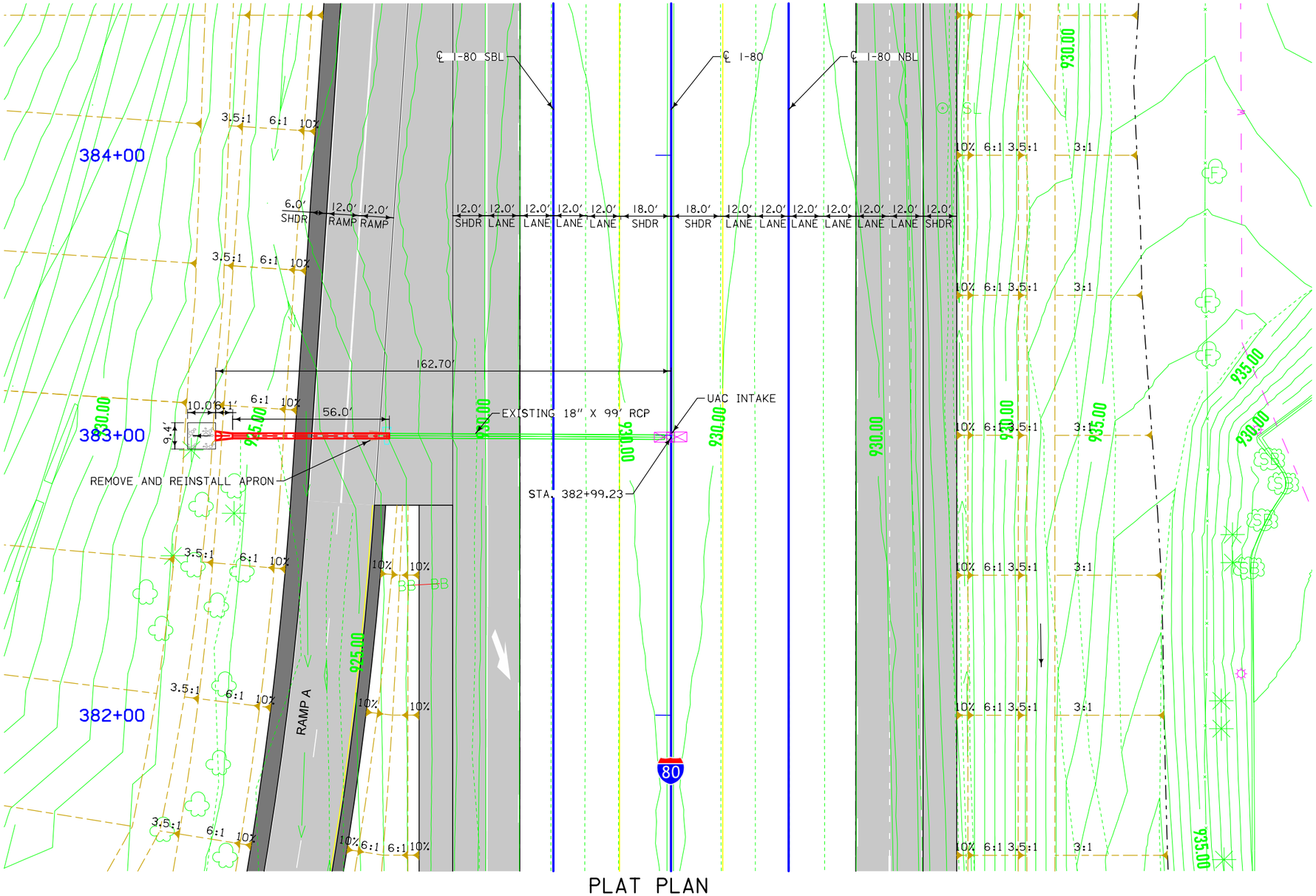


LONGITUDINAL SECTION ALONG ℄ CULVERT



PLAT PLAN

N

0 ENGLISH 40
SCALE IN FEET

UTILITIES LEGEND:

REFER TO D.1

HYDRAULIC DATA

DRAINAGE AREA = MEDIAN

LOCATION

I-80
T-79N R-25W
SECTION 32
WALNUT TOWNSHIP
POLK COUNTY

DESIGN FOR 0° SKEW

18" X 56'
2000D REINFORCED CONCRETE PIPE EXTENSION
PLAT PLAN

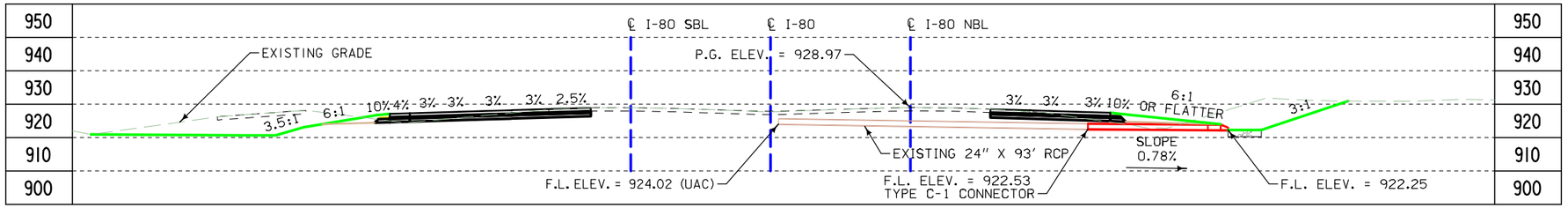
STATION 382+99.23 SBL 5/24/2022

POLK COUNTY

IOWA DEPARTMENT OF TRANSPORTATION

DESIGN SHEET NO. ___ OF ___ FILE NO. _____ DESIGN NO. _____

FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER V.103



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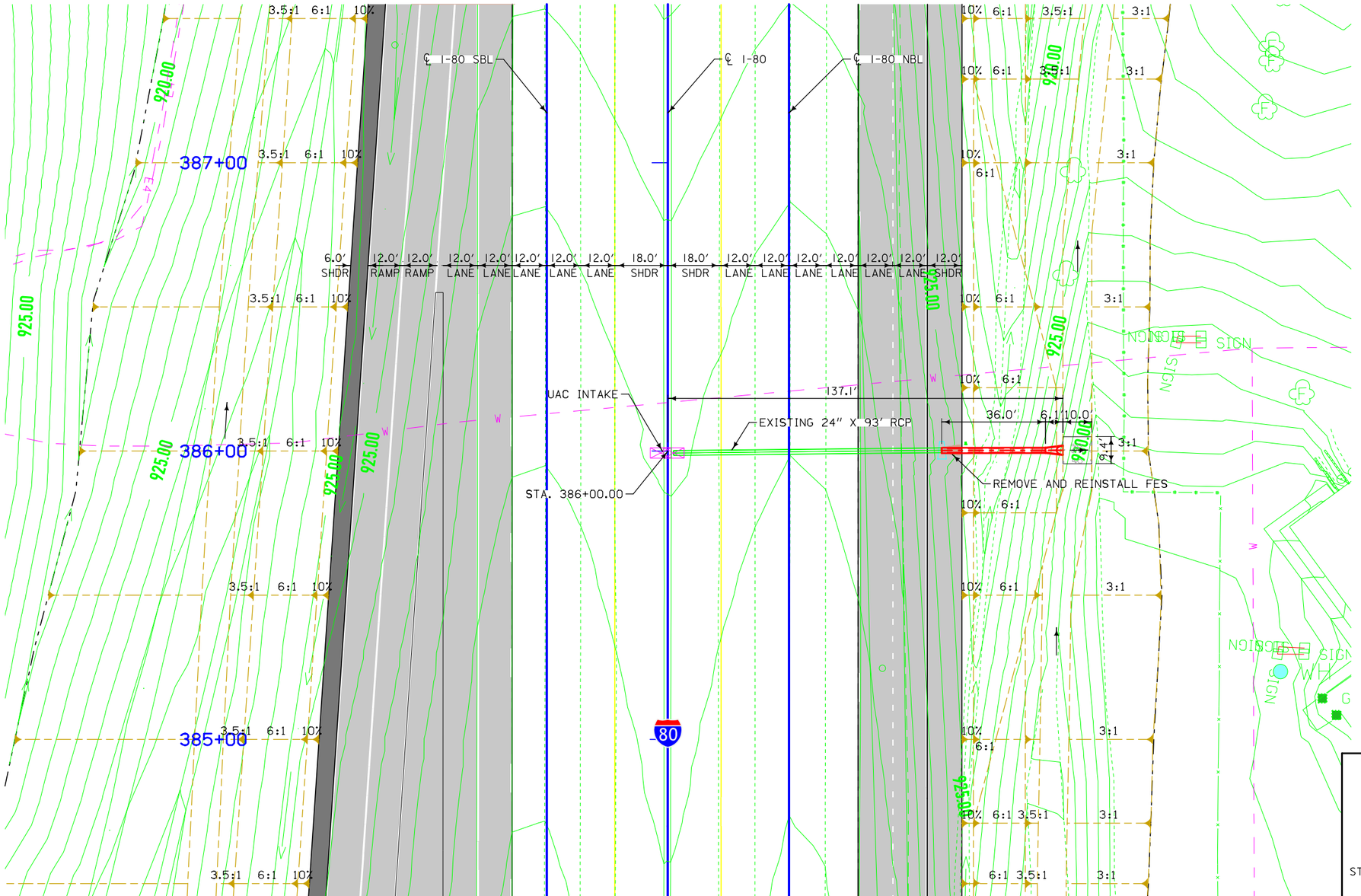

PLAT PLAN

0 ENGLISH 40
SCALE IN FEET

UTILITIES LEGEND:

REFER TO D.I

HYDRAULIC DATA

DRAINAGE AREA = MEDIAN

LOCATION

I-80
T-79N R-25W
SECTION 32
WALNUT TOWNSHIP
POLK COUNTY

DESIGN FOR 0° SKEW

18" X 36'
2000D REINFORCED CONCRETE PIPE EXTENSION
PLAT PLAN

STATION 386+00.00 NBL 5/24/2022

POLK COUNTY

IOWA DEPARTMENT OF TRANSPORTATION

DESIGN SHEET NO. ___ OF ___ FILE NO. _____ DESIGN NO. _____

FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER V.104

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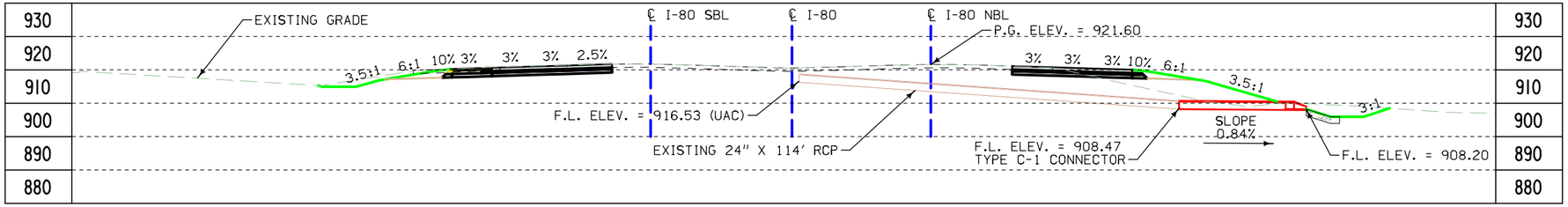

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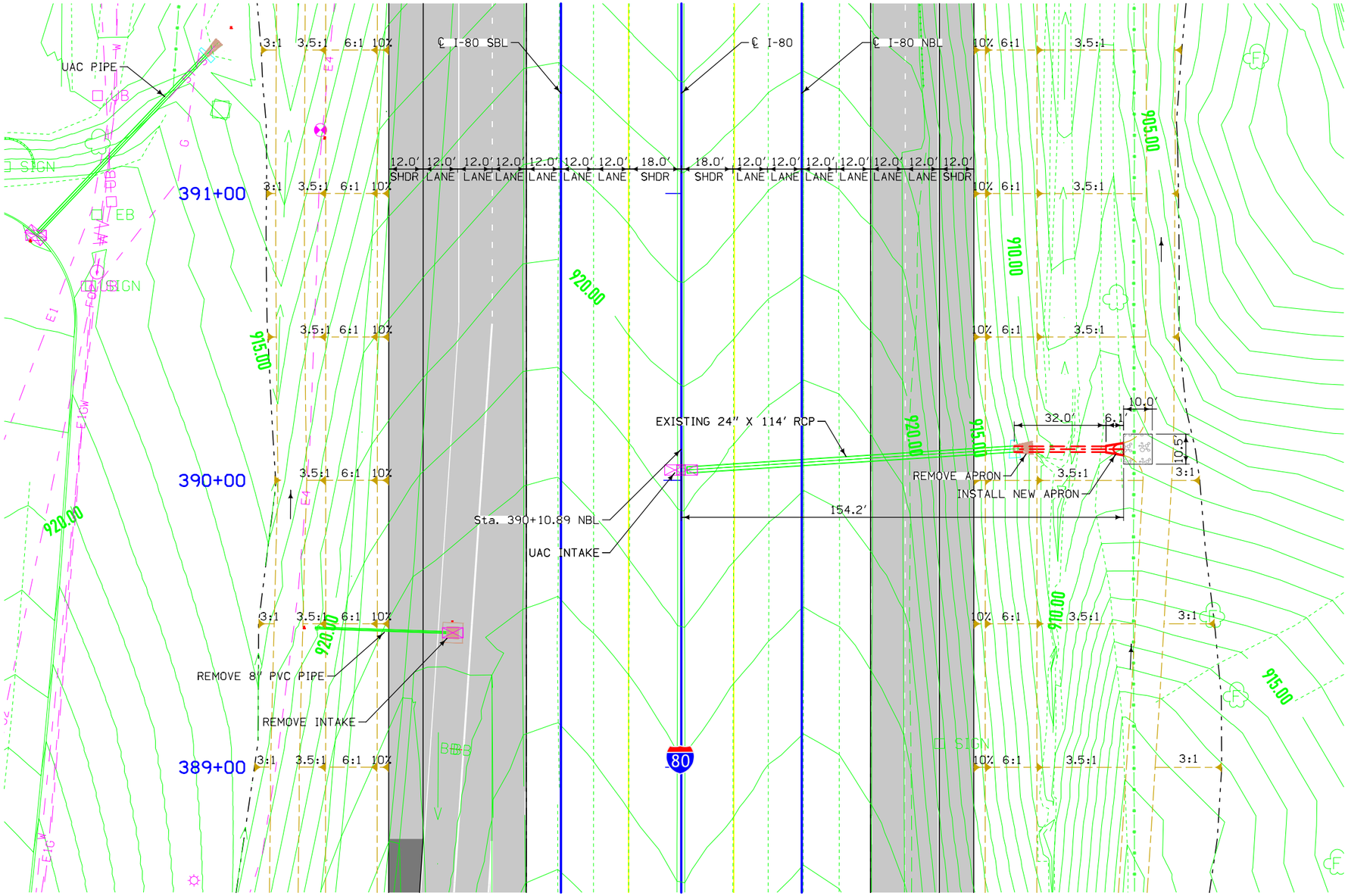

PLAT PLAN

N

0 ENGLISH 40
SCALE IN FEET

UTILITIES LEGEND:

REFER TO D.1

HYDRAULIC DATA

DRAINAGE AREA = MEDIAN

LOCATION

I-80
T-79N R-25W
SECTION 32
WALNUT TOWNSHIP
POLK COUNTY

DESIGN FOR 0° SKEW

24" X 32'
2000D REINFORCED CONCRETE PIPE EXTENSION
PLAT PLAN

STATION 390+10.89 NBL 5/24/2022

POLK COUNTY

IOWA DEPARTMENT OF TRANSPORTATION

DESIGN SHEET NO. ____ OF ____ FILE NO. _____ DESIGN NO. _____

FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER V.105

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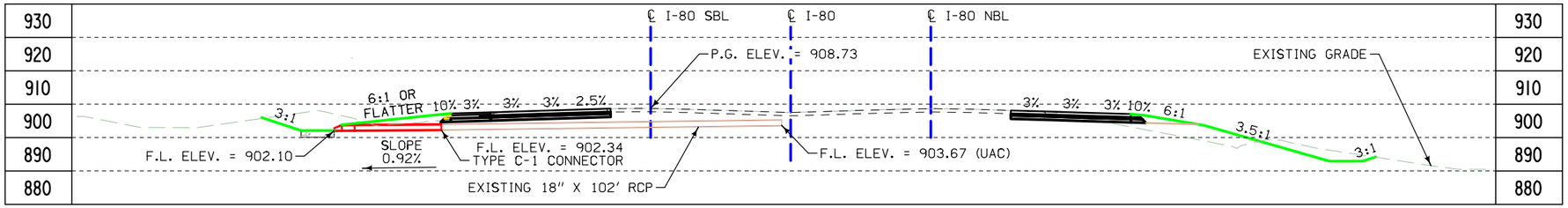

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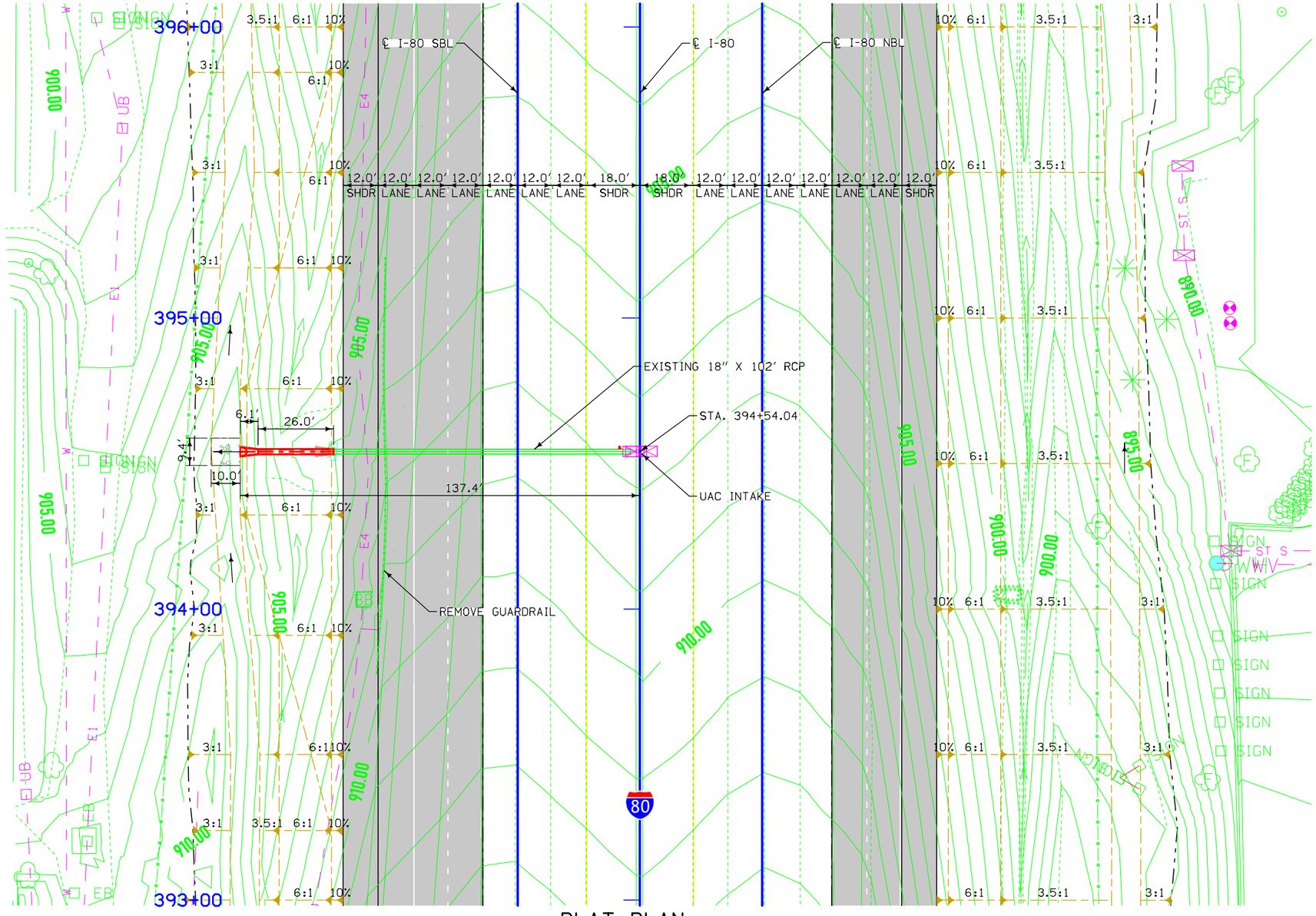

PLAT PLAN

N

0 ENGLISH 40
SCALE IN FEET

UTILITIES LEGEND:

REFER TO D.1

HYDRAULIC DATA

DRAINAGE AREA = MEDIAN

LOCATION

I-80
T-79N R-25W
SECTION 32
WALNUT TOWNSHIP
POLK COUNTY

DESIGN FOR 0° SKEW

18" X 26'
2000D REINFORCED CONCRETE PIPE EXTENSION
PLAT PLAN

STATION 394+54.04 SBL 5/24/2022

POLK COUNTY

IOWA DEPARTMENT OF TRANSPORTATION

DESIGN SHEET NO. ___ OF ___ FILE NO. _____ DESIGN NO. _____

FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER V.106

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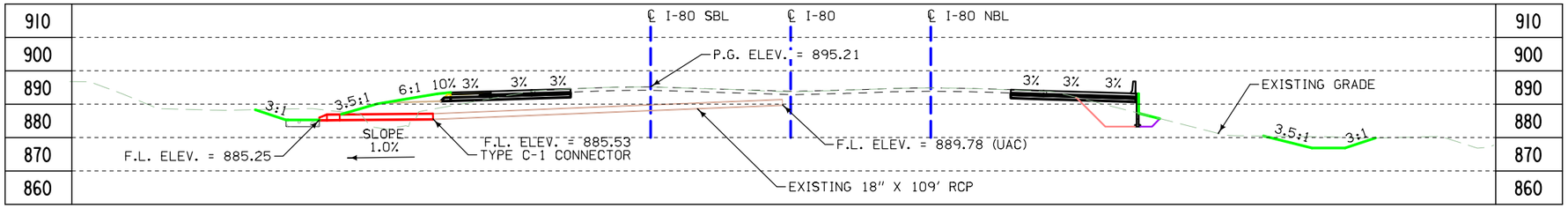

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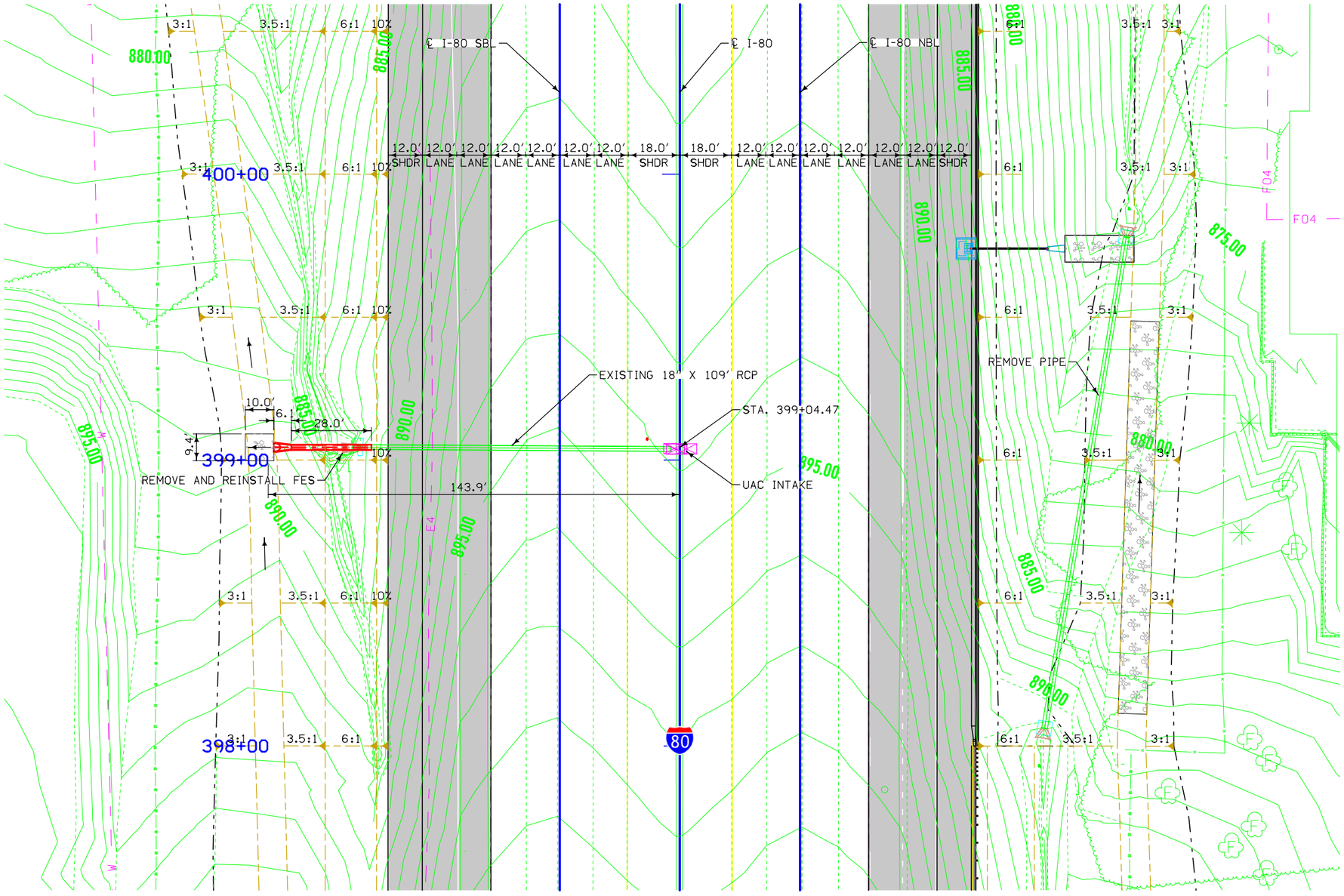

PLAT PLAN

N

0 ENGLISH 40
SCALE IN FEET

UTILITIES LEGEND:

REFER TO D.1

HYDRAULIC DATA

DRAINAGE AREA = MEDIAN

LOCATION

I-80
T-79N R-25W
SECTION 32
WALNUT TOWNSHIP
POLK COUNTY

DESIGN FOR 0° SKEW

18" X 30'
2000D REINFORCED CONCRETE PIPE EXTENSION
PLAT PLAN

STATION 399+04.47 SBL 5/24/2022

POLK COUNTY

IOWA DEPARTMENT OF TRANSPORTATION

DESIGN SHEET NO. ___ OF ___ FILE NO. _____ DESIGN NO. _____

FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER V.107

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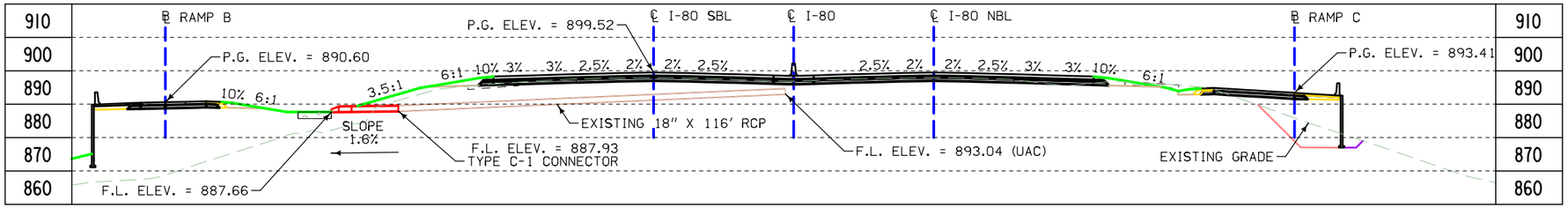

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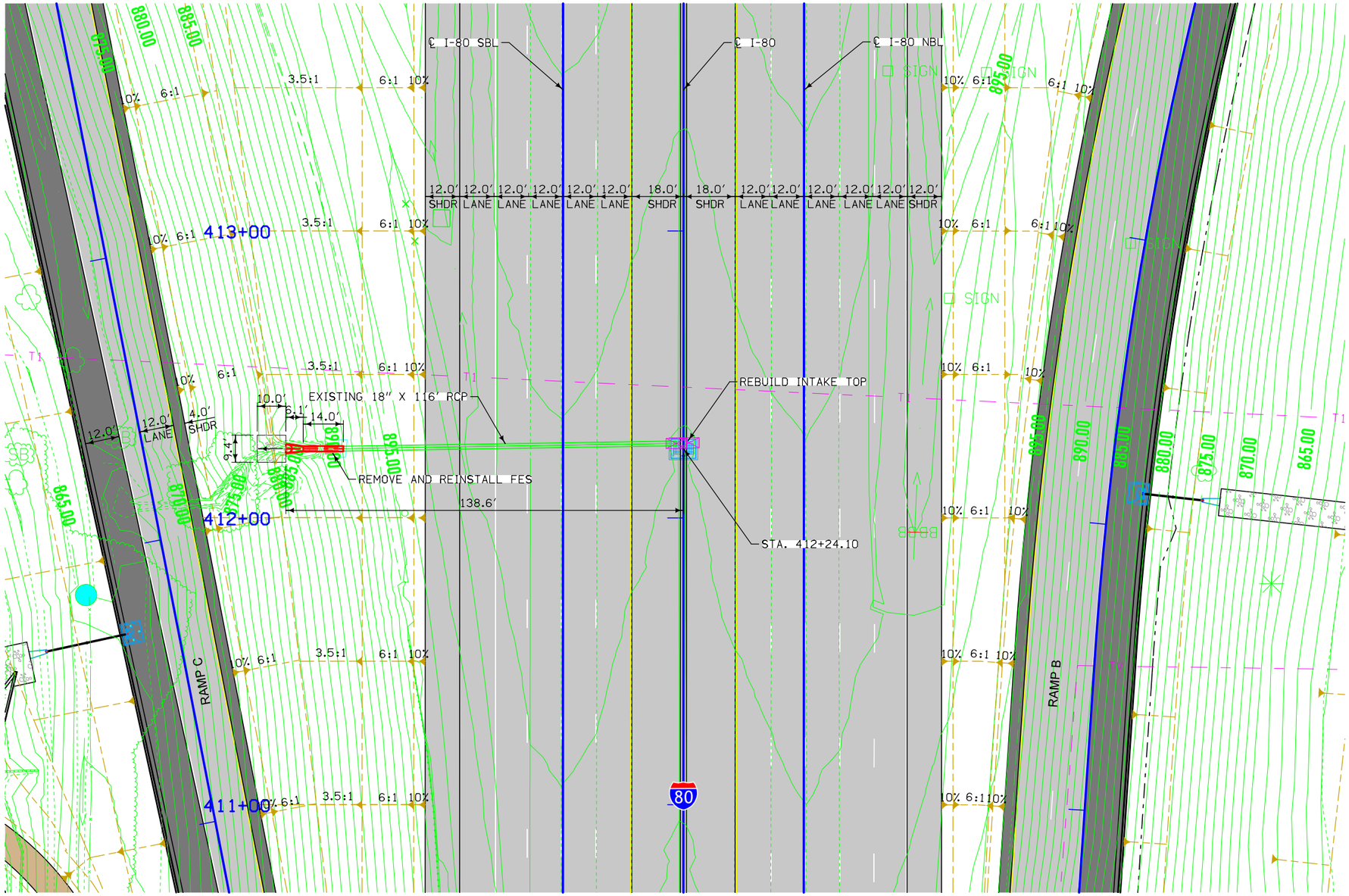


PLAT PLAN

0 ENGLISH 40
SCALE IN FEET

UTILITIES LEGEND:

REFER TO D.1

HYDRAULIC DATA

DRAINAGE AREA = MEDIAN

LOCATION

I-80
T-79N R-25W
SECTION 32
WALNUT TOWNSHIP
POLK COUNTY

DESIGN FOR 0° SKEW

18" X 14'
2000D REINFORCED CONCRETE PIPE EXTENSION
PLAT PLAN

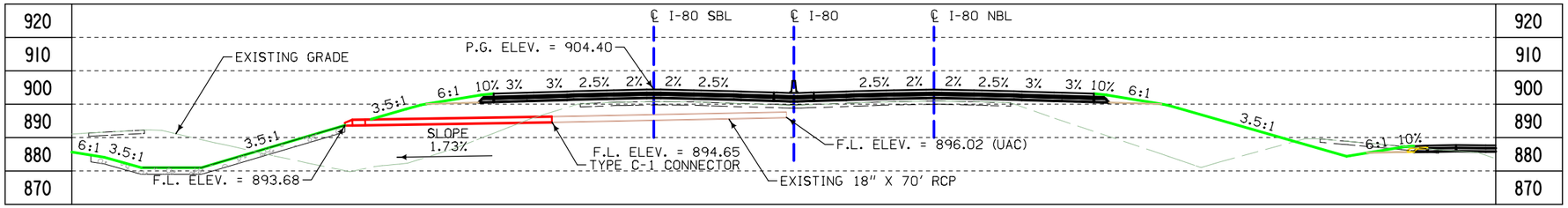
STATION 412+24.10 SBL 5/24/2022

POLK COUNTY

IOWA DEPARTMENT OF TRANSPORTATION

DESIGN SHEET NO. ___ OF ___ FILE NO. _____ DESIGN NO. _____

FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER V.108



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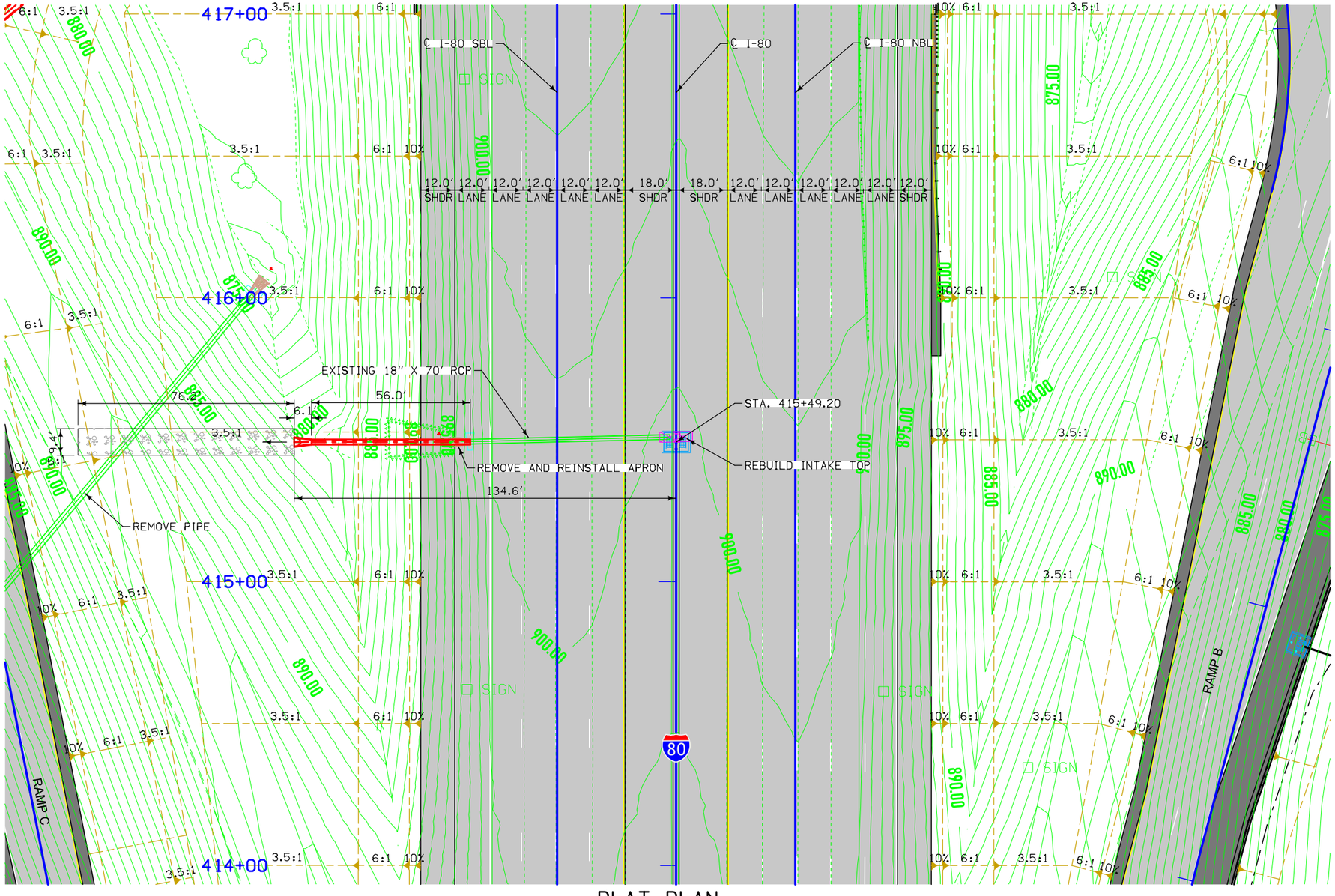

PLAT PLAN

N

0 ENGLISH 40
SCALE IN FEET

UTILITIES LEGEND:

REFER TO D.I

HYDRAULIC DATA

DRAINAGE AREA = MEDIAN

LOCATION

I-80
T-79N R-25W
SECTION 32
WALNUT TOWNSHIP
POLK COUNTY

DESIGN FOR 0° SKEW

18" X 56'
2000D REINFORCED CONCRETE PIPE EXTENSION
PLAT PLAN

STATION 415+49.20 SBL 5/24/2022

POLK COUNTY

IOWA DEPARTMENT OF TRANSPORTATION

DESIGN SHEET NO. ___ OF ___ FILE NO. _____ DESIGN NO. _____

FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER V.109

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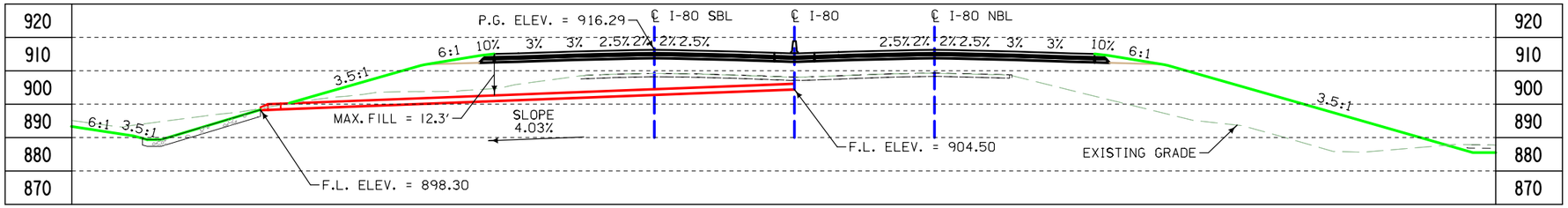

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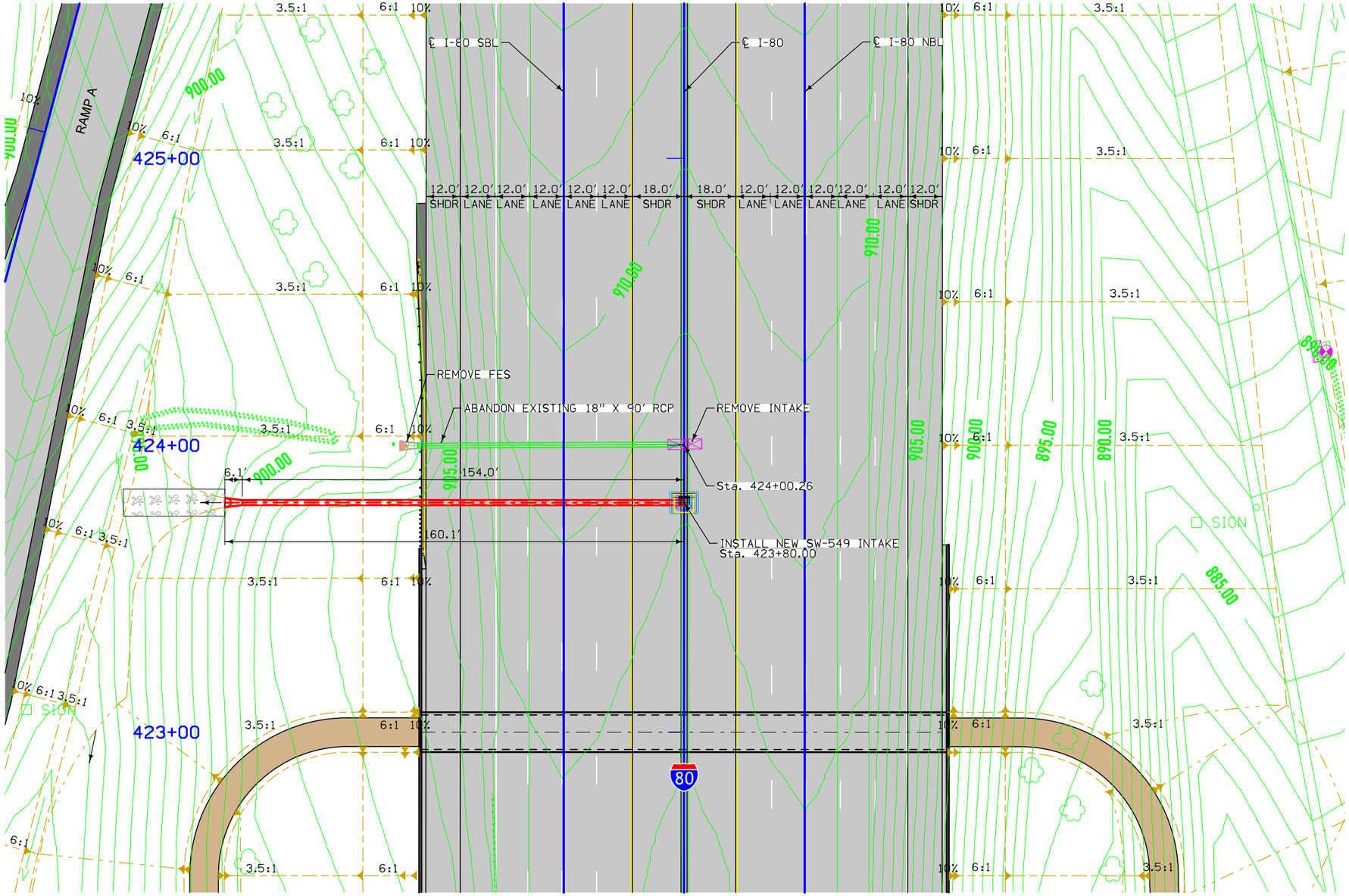

PLAT PLAN

N

0 ENGLISH 40
SCALE IN FEET

UTILITIES LEGEND:

REFER TO D.1

HYDRAULIC DATA

DRAINAGE AREA = MEDIAN

LOCATION

I-80
T-79N R-25W
SECTION 32
WALNUT TOWNSHIP
POLK COUNTY

DESIGN FOR 0° SKEW

18" X 154'
2000D REINFORCED CONCRETE PIPE
PLAT PLAN

STATION 423+80.00 SBL 5/24/2022

POLK COUNTY

IOWA DEPARTMENT OF TRANSPORTATION

DESIGN SHEET NO. ____ OF ____ FILE NO. _____ DESIGN NO. _____

FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER V.110

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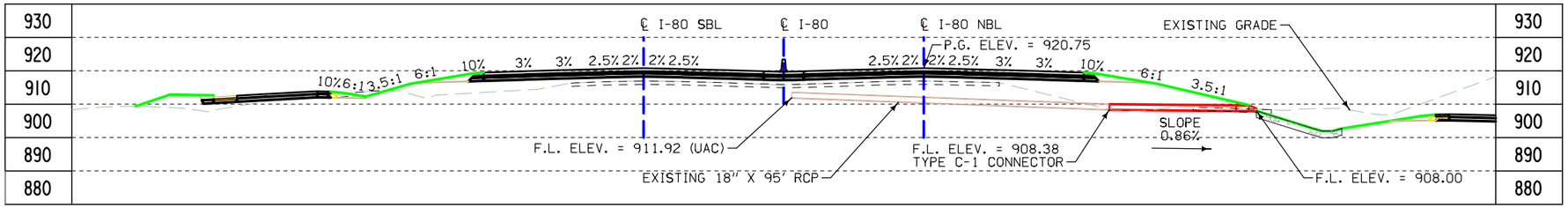
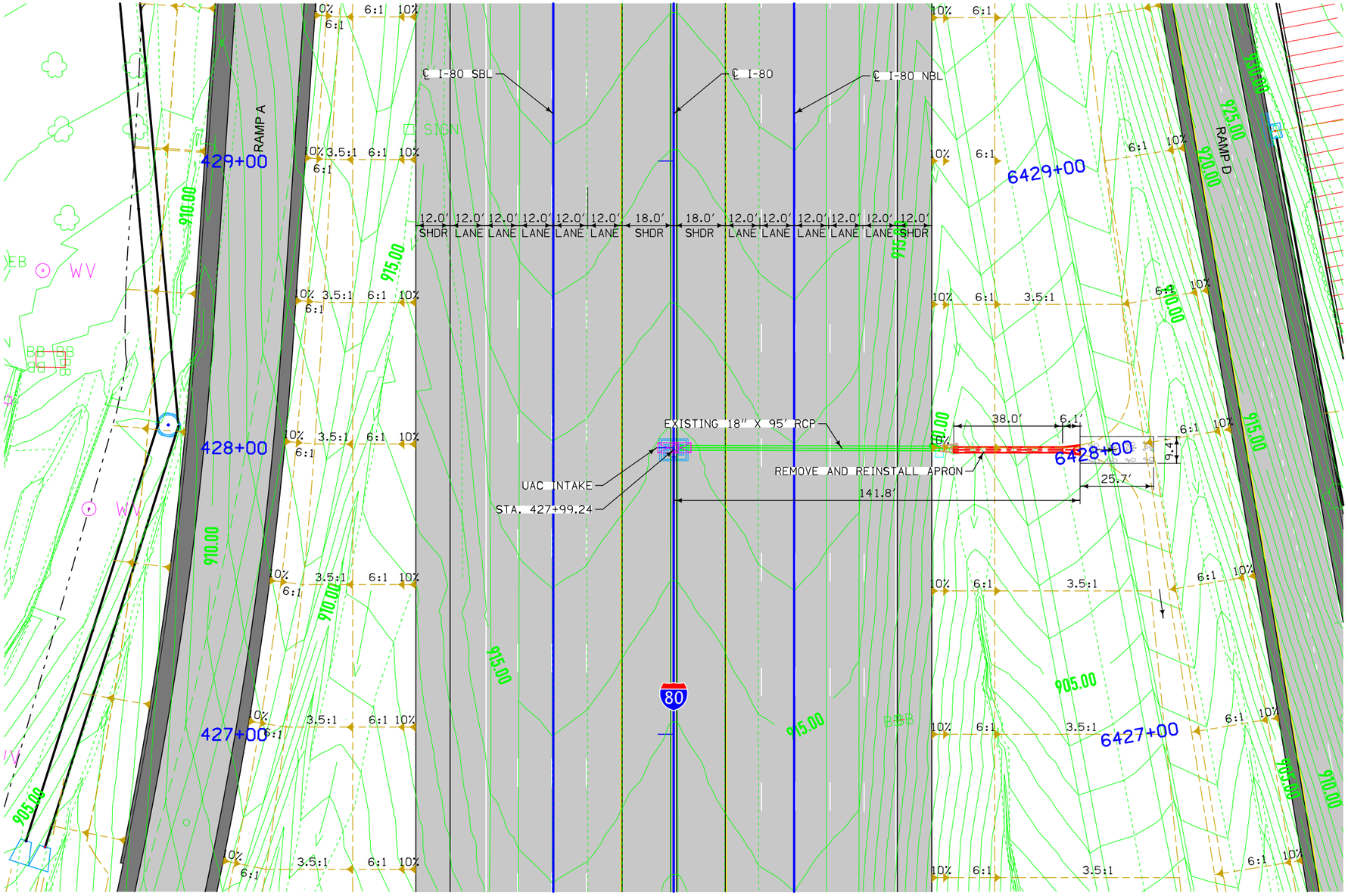


LONGITUDINAL SECTION ALONG ℄ CULVERT



PLAT PLAN

N

0 ENGLISH 40
SCALE IN FEET

UTILITIES LEGEND:

REFER TO D.1

HYDRAULIC DATA

DRAINAGE AREA = MEDIAN

LOCATION

I-80
T-79N R-25W
SECTION 32
WALNUT TOWNSHIP
POLK COUNTY

DESIGN FOR 0° SKEW

18" X 38'
2000D REINFORCED CONCRETE PIPE EXTENSION
PLAT PLAN

STATION 427+99.24 NBL 5/24/2022

POLK COUNTY

IOWA DEPARTMENT OF TRANSPORTATION

DESIGN SHEET NO. ____ OF ____ FILE NO. _____ DESIGN NO. _____

FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER V.111

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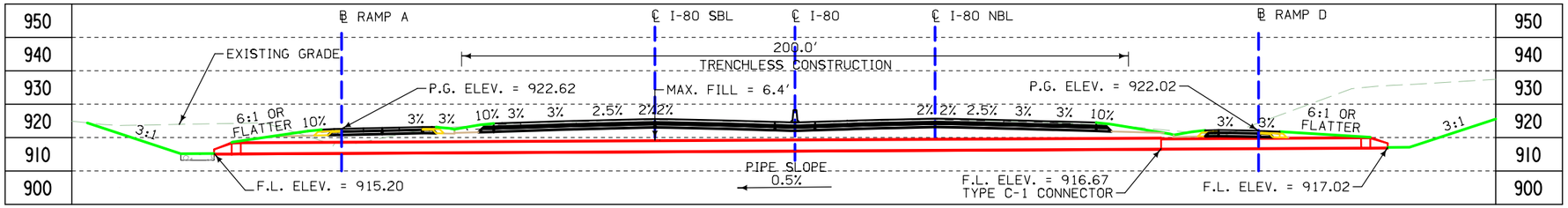

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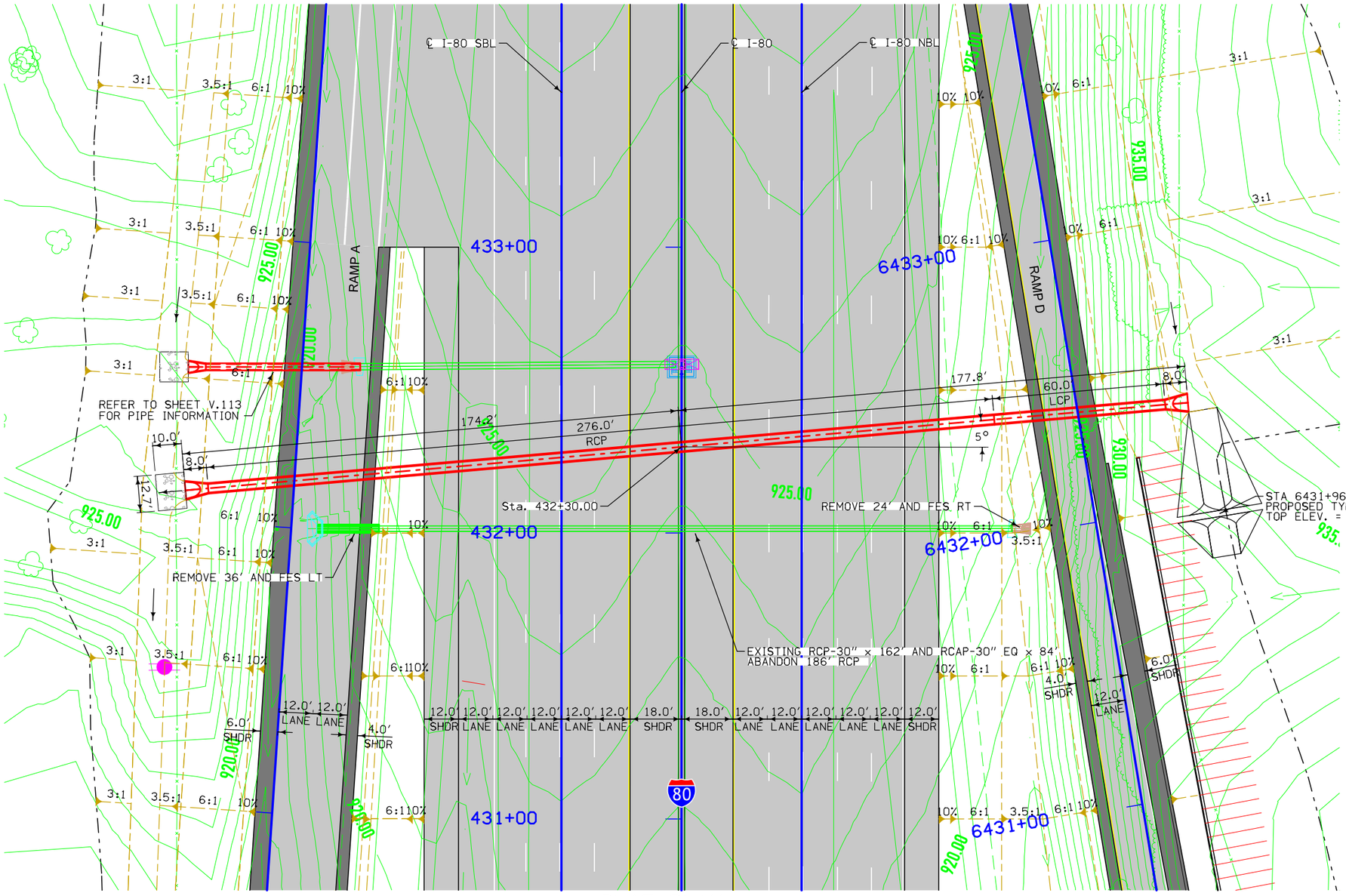


PLAT PLAN

N

0 ENGLISH 40
SCALE IN FEET

UTILITIES LEGEND:

REFER TO D.1

HYDRAULIC DATA

DRAINAGE AREA = 8.0 ACRES HILLY
DESIGN DISCHARGE, Q_{50} = 42 CFS

LOCATION

I-80
T-79N R-25W
SECTION 29
WALNUT TOWNSHIP
POLK COUNTY

DESIGN FOR 5° SKEW RT AH

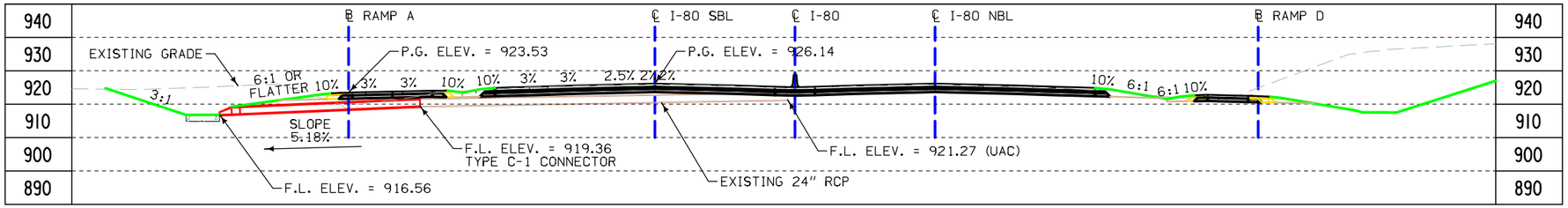
36" X 276'
2000D REINFORCED CONCRETE PIPE
EQ 36" X 60' LCP PIPE
PLAT PLAN

STATION 432+30.00 5/24/2022

POLK COUNTY

IOWA DEPARTMENT OF TRANSPORTATION
DESIGN SHEET NO. ___ OF ___ FILE NO. _____ DESIGN NO. _____

FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER V.112



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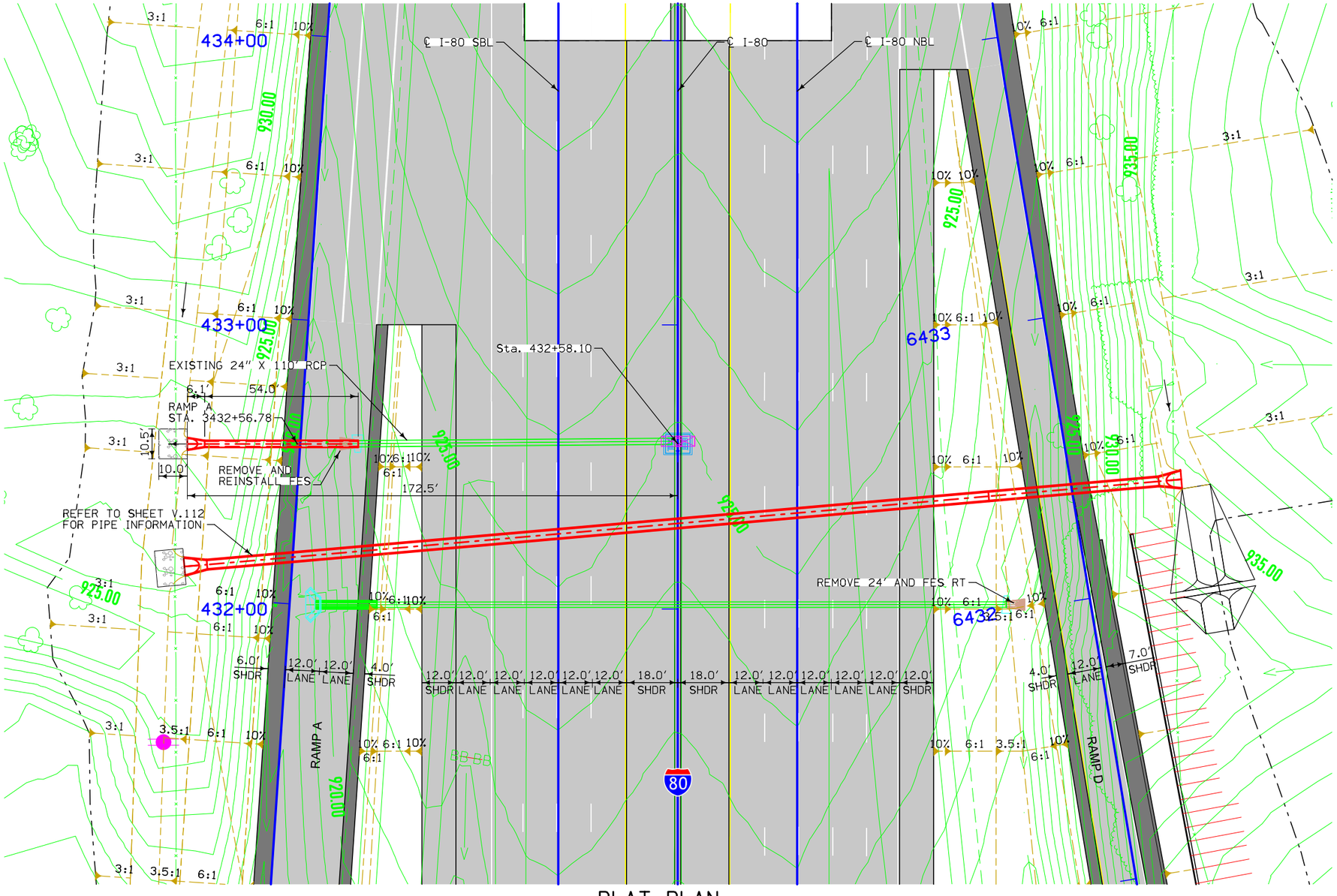

PLAT PLAN

N

0 ENGLISH 40
SCALE IN FEET

UTILITIES LEGEND:

REFER TO D.1

HYDRAULIC DATA

DRAINAGE AREA = MEDIAN

LOCATION

I-80
T-79N R-25W
SECTION 29
WALNUT TOWNSHIP
POLK COUNTY

DESIGN FOR 5° SKEW RT AH

24" X 54'
2000D REINFORCED CONCRETE PIPE EXTENSION
PLAT PLAN

STATION 432+58.10 SBL 5/24/2022

POLK COUNTY

IOWA DEPARTMENT OF TRANSPORTATION

DESIGN SHEET NO. ____ OF ____ FILE NO. _____ DESIGN NO. _____

FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER V.113

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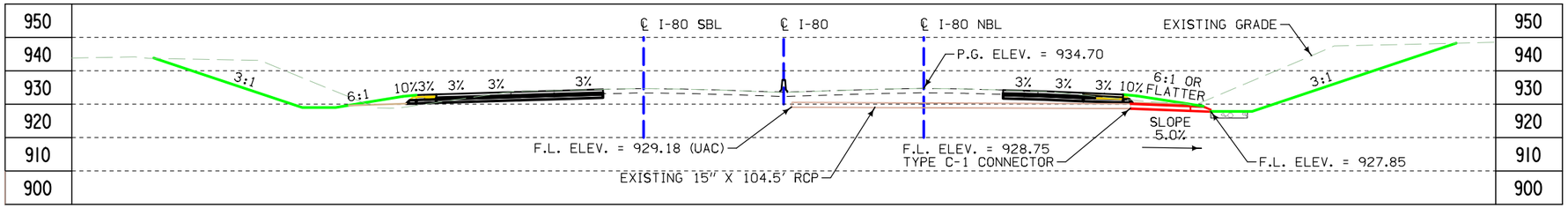

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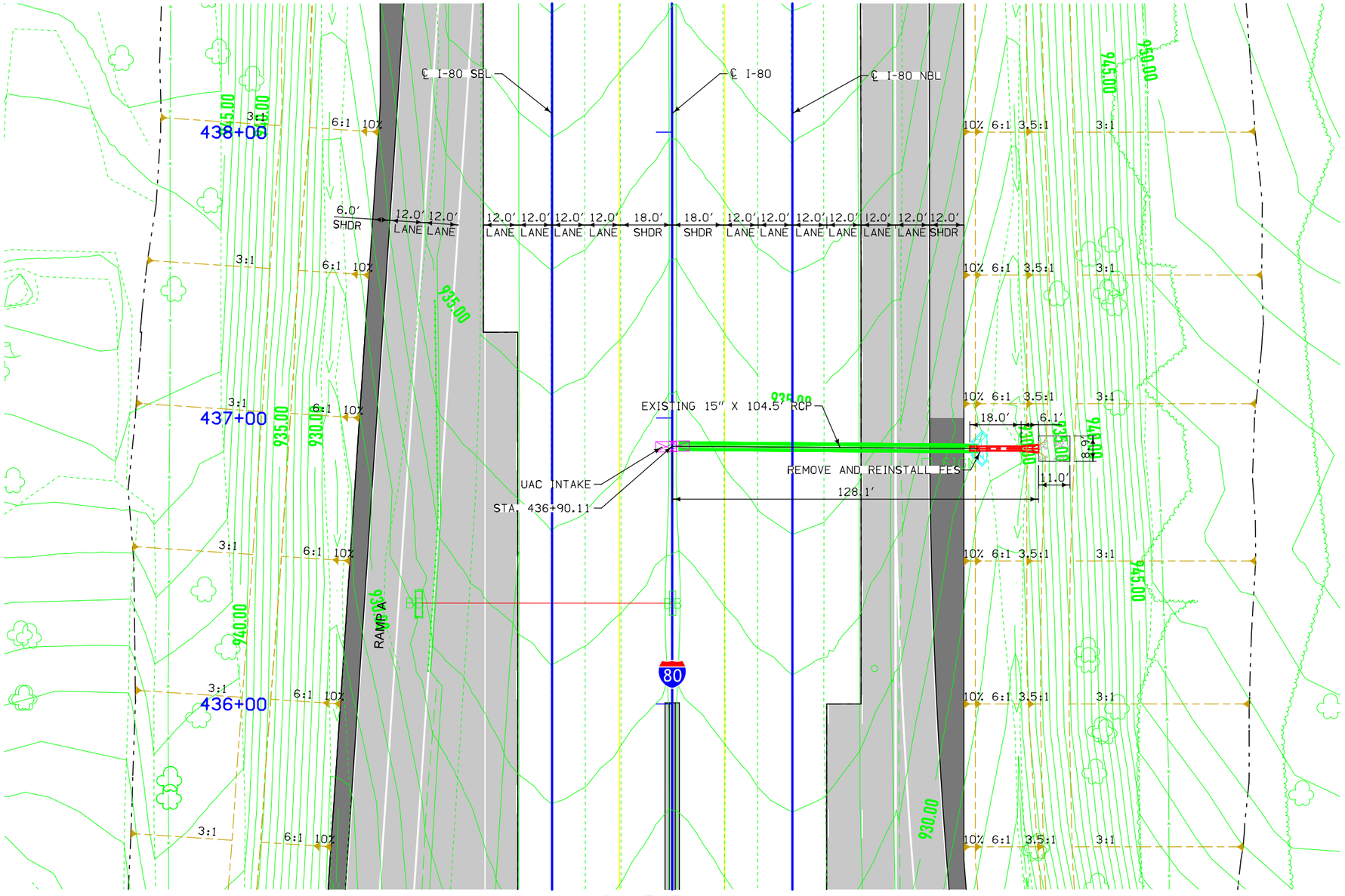

PLAT PLAN

N

0 ENGLISH 40
SCALE IN FEET

UTILITIES LEGEND:

REFER TO D.1

HYDRAULIC DATA

DRAINAGE AREA = MEDIAN

LOCATION

I-80
T-79N R-25W
SECTION 32
WALNUT TOWNSHIP
POLK COUNTY

DESIGN FOR 0° SKEW

15" X 18'
2000D REINFORCED CONCRETE PIPE EXTENSION
PLAT PLAN

STATION 436+90.11 NBL 5/24/2022

POLK COUNTY

IOWA DEPARTMENT OF TRANSPORTATION

DESIGN SHEET NO. ___ OF ___ FILE NO. _____ DESIGN NO. _____

FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER V.114

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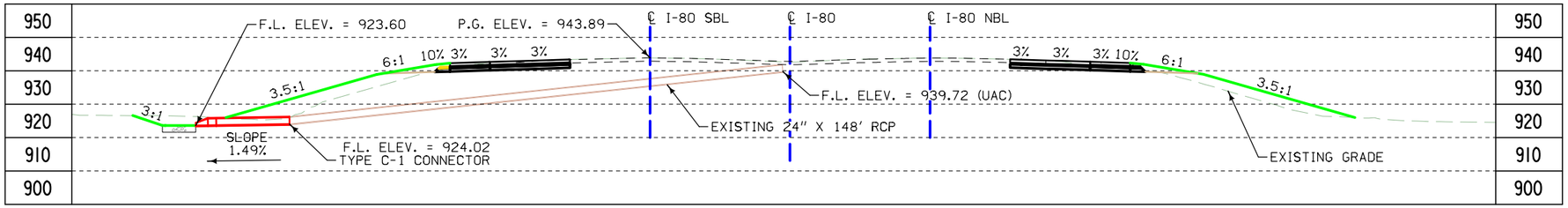
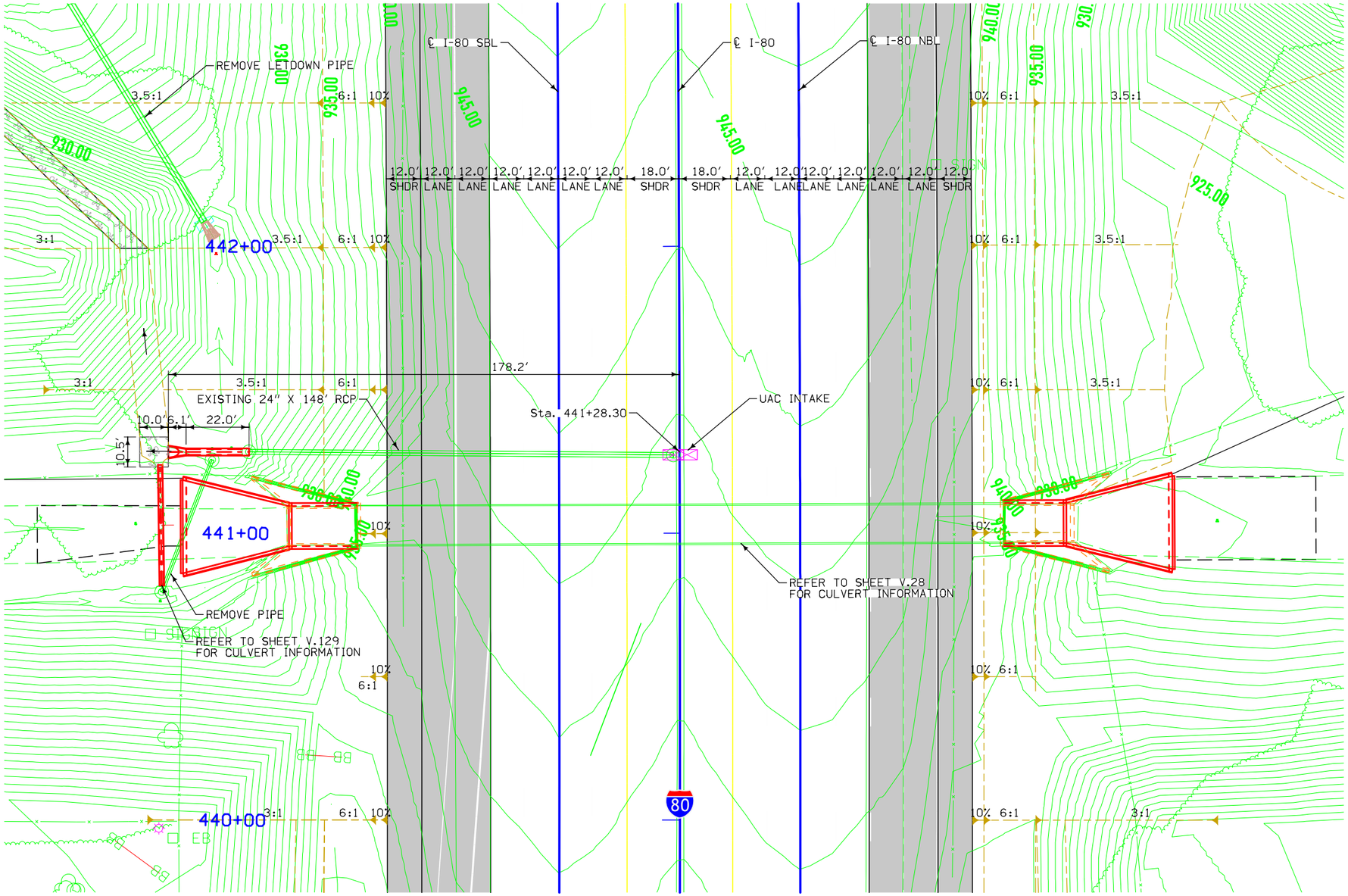


LONGITUDINAL SECTION ALONG ℄ CULVERT



PLAT PLAN

N

0 ENGLISH 40
SCALE IN FEET

UTILITIES LEGEND:

REFER TO D.1

HYDRAULIC DATA

DRAINAGE AREA = MEDIAN

LOCATION

I-80
T-79N R-25W
SECTION 29
WALNUT TOWNSHIP
POLK COUNTY

DESIGN FOR 0° SKEW

24" X 22'
2000D REINFORCED CONCRETE PIPE EXTENSION
PLAT PLAN

STATION 441+28.30 SBL 5/24/2022

POLK COUNTY

IOWA DEPARTMENT OF TRANSPORTATION

DESIGN SHEET NO. ___ OF ___ FILE NO. _____ DESIGN NO. _____

FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER V.115

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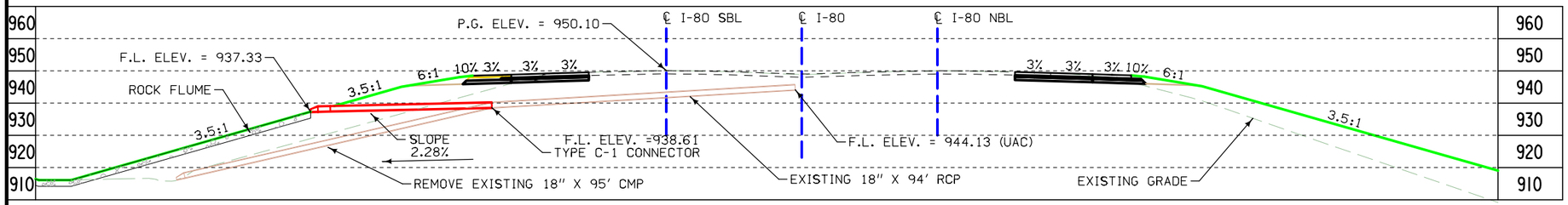

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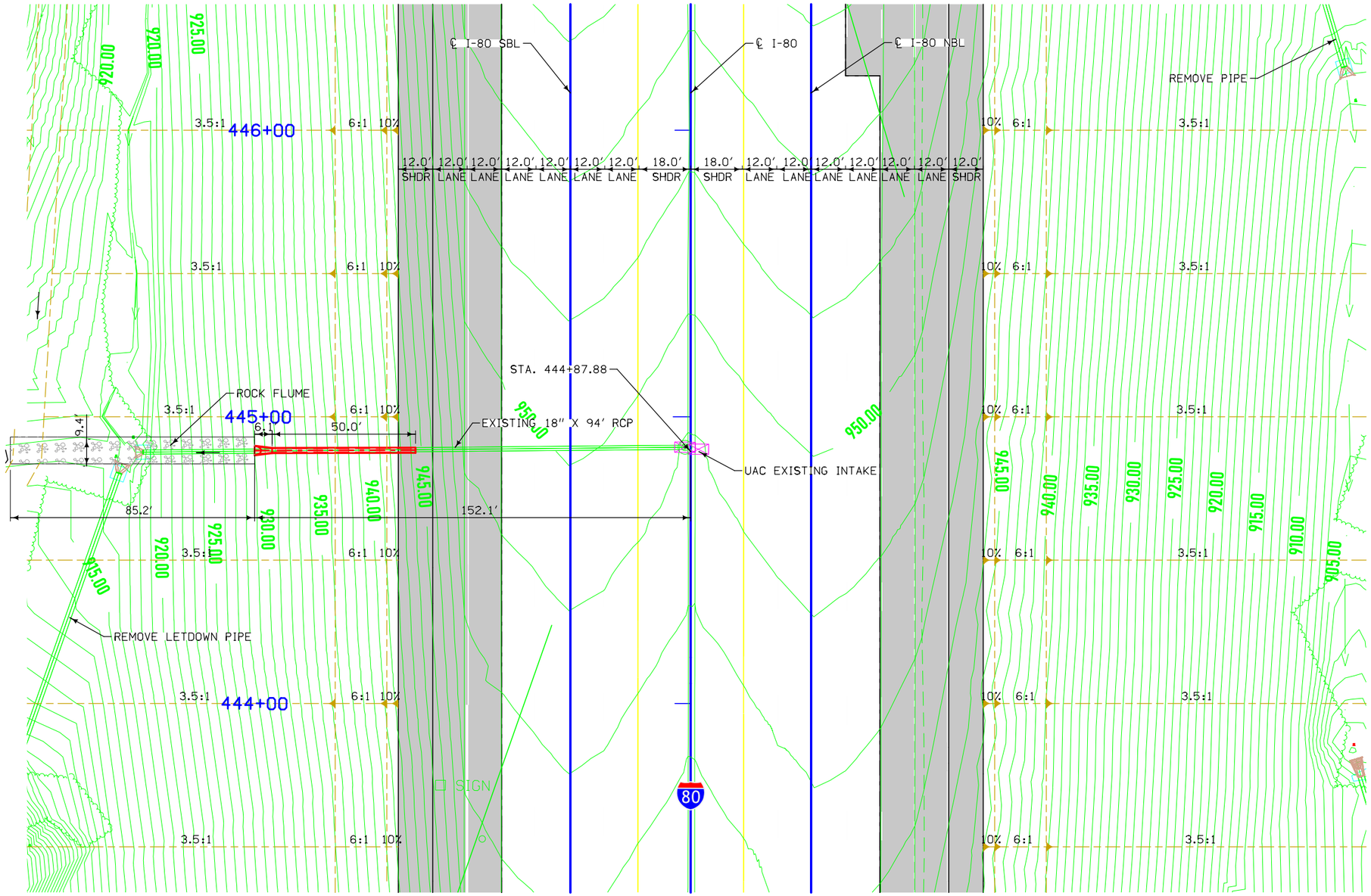

PLAT PLAN

N

0 ENGLISH 40
SCALE IN FEET

UTILITIES LEGEND:

REFER TO D.1

HYDRAULIC DATA

DRAINAGE AREA = MEDIAN

LOCATION

I-80
T-79N R-25W
SECTION 29
WALNUT TOWNSHIP
POLK COUNTY

DESIGN FOR 0° SKEW

18" X 50'
2000D REINFORCED CONCRETE PIPE EXTENSION
PLAT PLAN

STATION 444+87.88 SBL 5/24/2022

POLK COUNTY

IOWA DEPARTMENT OF TRANSPORTATION

DESIGN SHEET NO. ___ OF ___ FILE NO. _____ DESIGN NO. _____

FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER V.116

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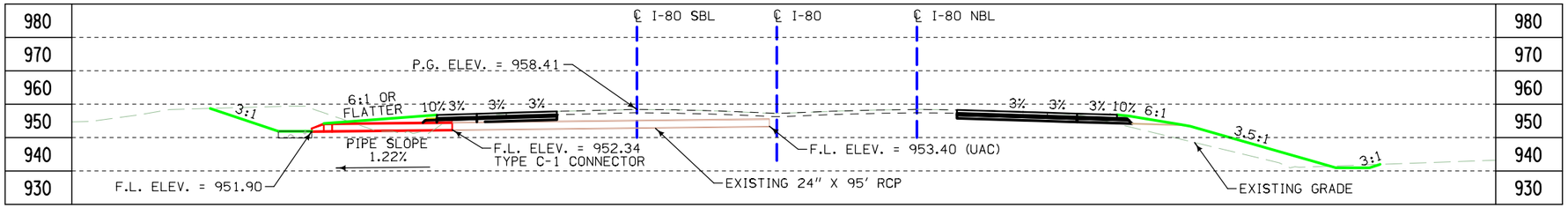

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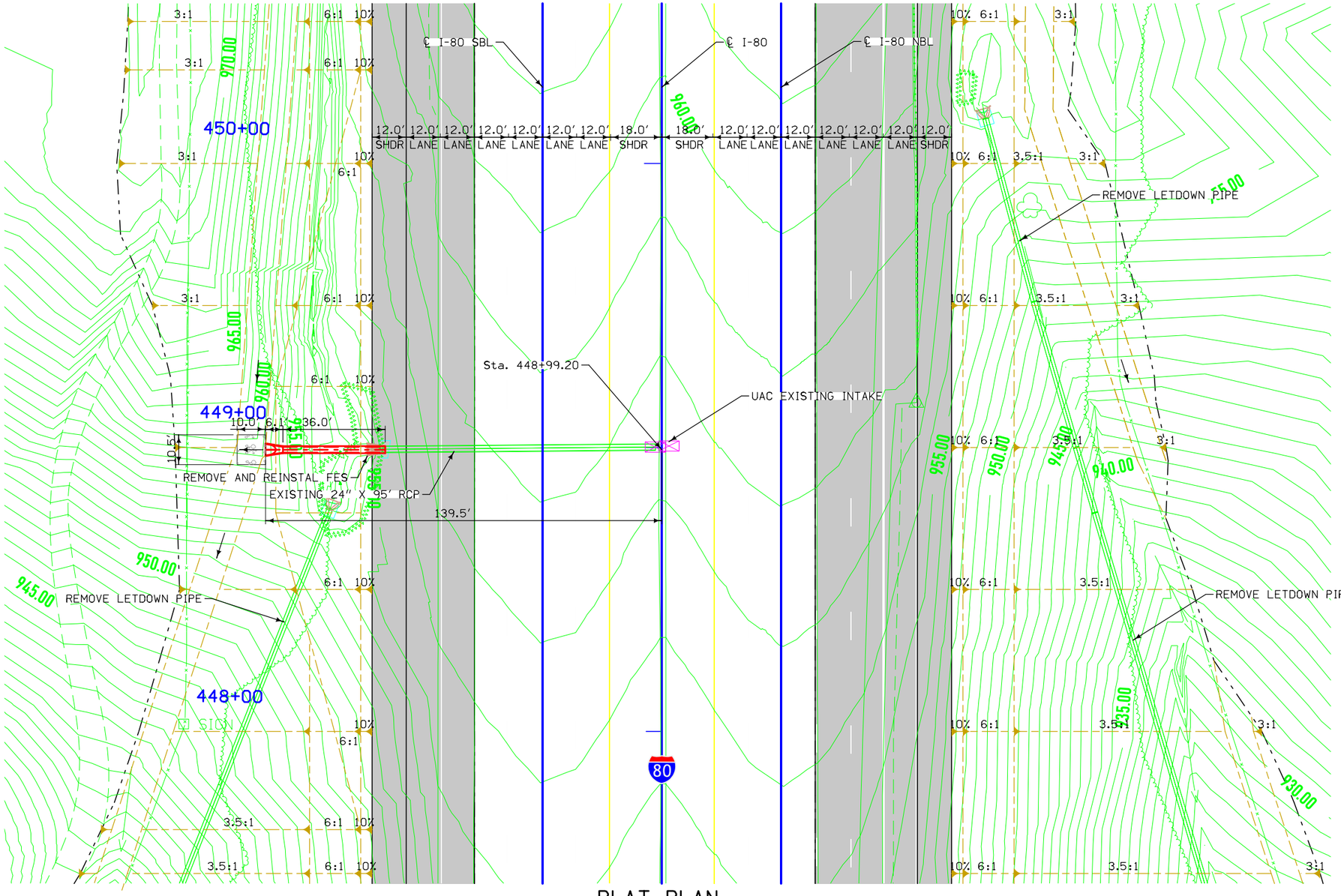

PLAT PLAN

UTILITIES LEGEND:

REFER TO D.1

HYDRAULIC DATA

DRAINAGE AREA = MEDIAN

LOCATION

I-80
T-79N R-25W
SECTION 29
WALNUT TOWNSHIP
POLK COUNTY

DESIGN FOR 0° SKEW

24" X 36'
2000D REINFORCED CONCRETE PIPE EXTENSION
PLAT PLAN

STATION 448+99.20 SBL 5/24/2022

POLK COUNTY

IOWA DEPARTMENT OF TRANSPORTATION

DESIGN SHEET NO. ___ OF ___ FILE NO. _____ DESIGN NO. _____

FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER V.117

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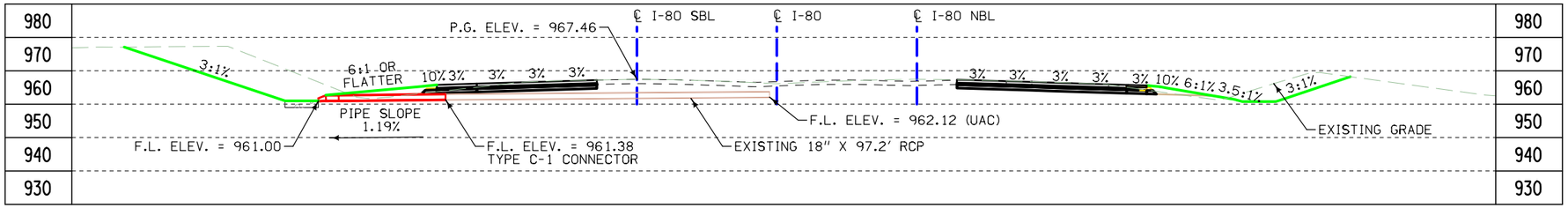

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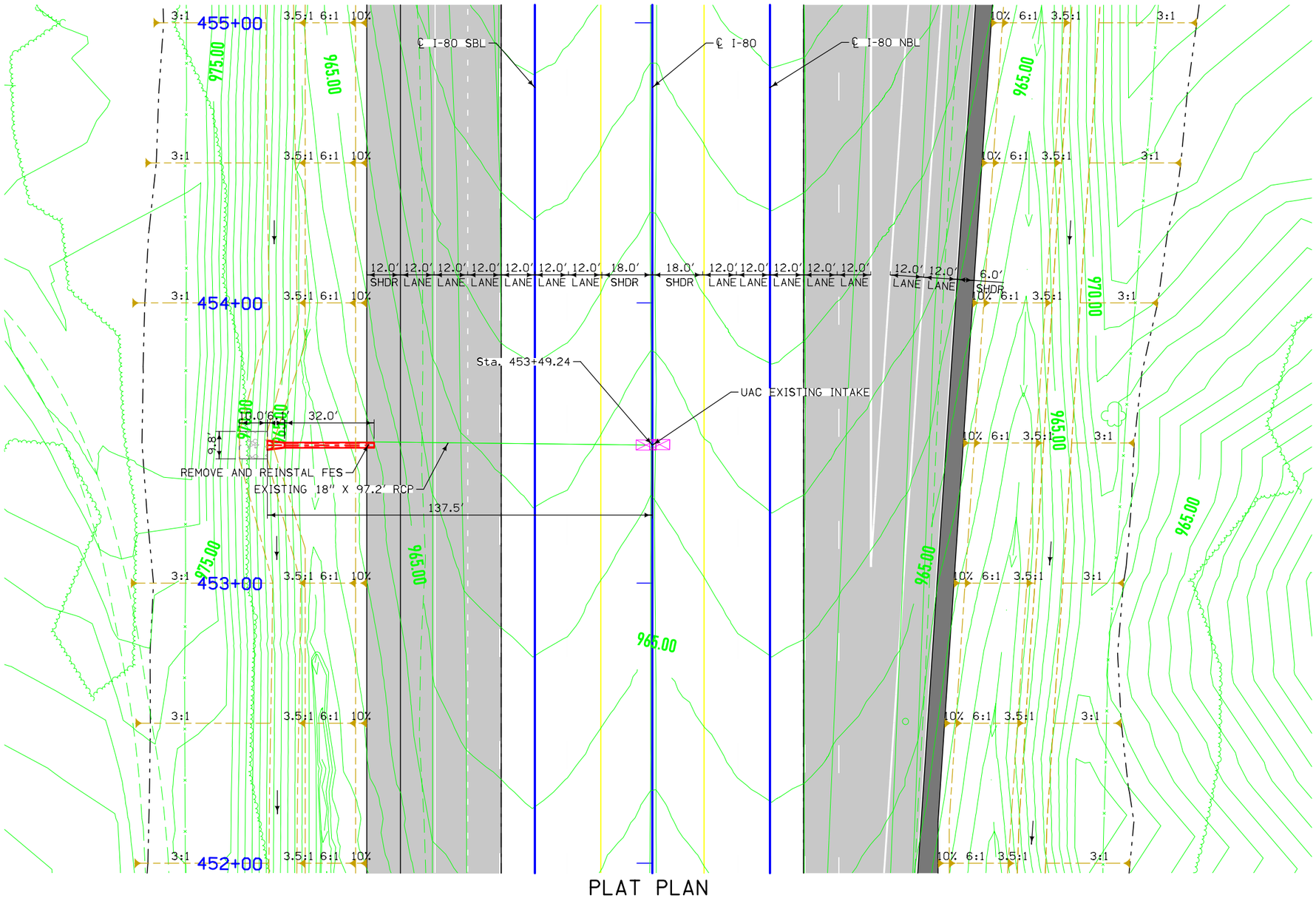

PLAT PLAN

N

0 ENGLISH 40
SCALE IN FEET

UTILITIES LEGEND:

REFER TO D.1

HYDRAULIC DATA

DRAINAGE AREA = MEDIAN

LOCATION

I-80
T-79N R-25W
SECTION 29
WALNUT TOWNSHIP
POLK COUNTY

DESIGN FOR 0° SKEW

18" X 32'
2000D REINFORCED CONCRETE PIPE EXTENSION
PLAT PLAN

STATION 453+49.24 SBL 5/24/2022

POLK COUNTY

IOWA DEPARTMENT OF TRANSPORTATION

DESIGN SHEET NO. ____ OF ____ FILE NO. _____ DESIGN NO. _____

FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER V.118

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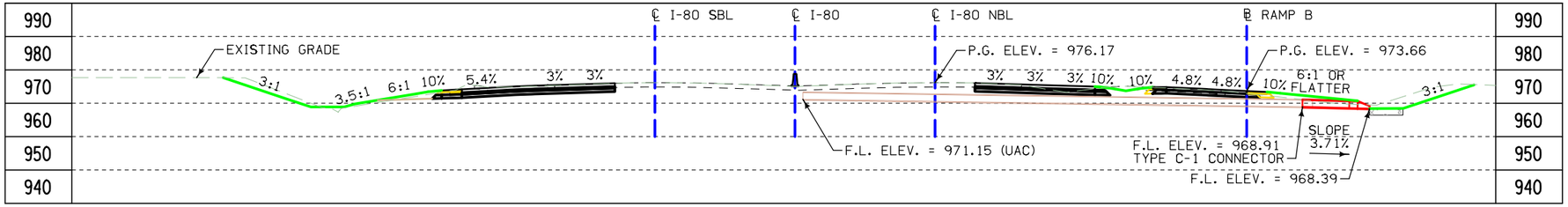

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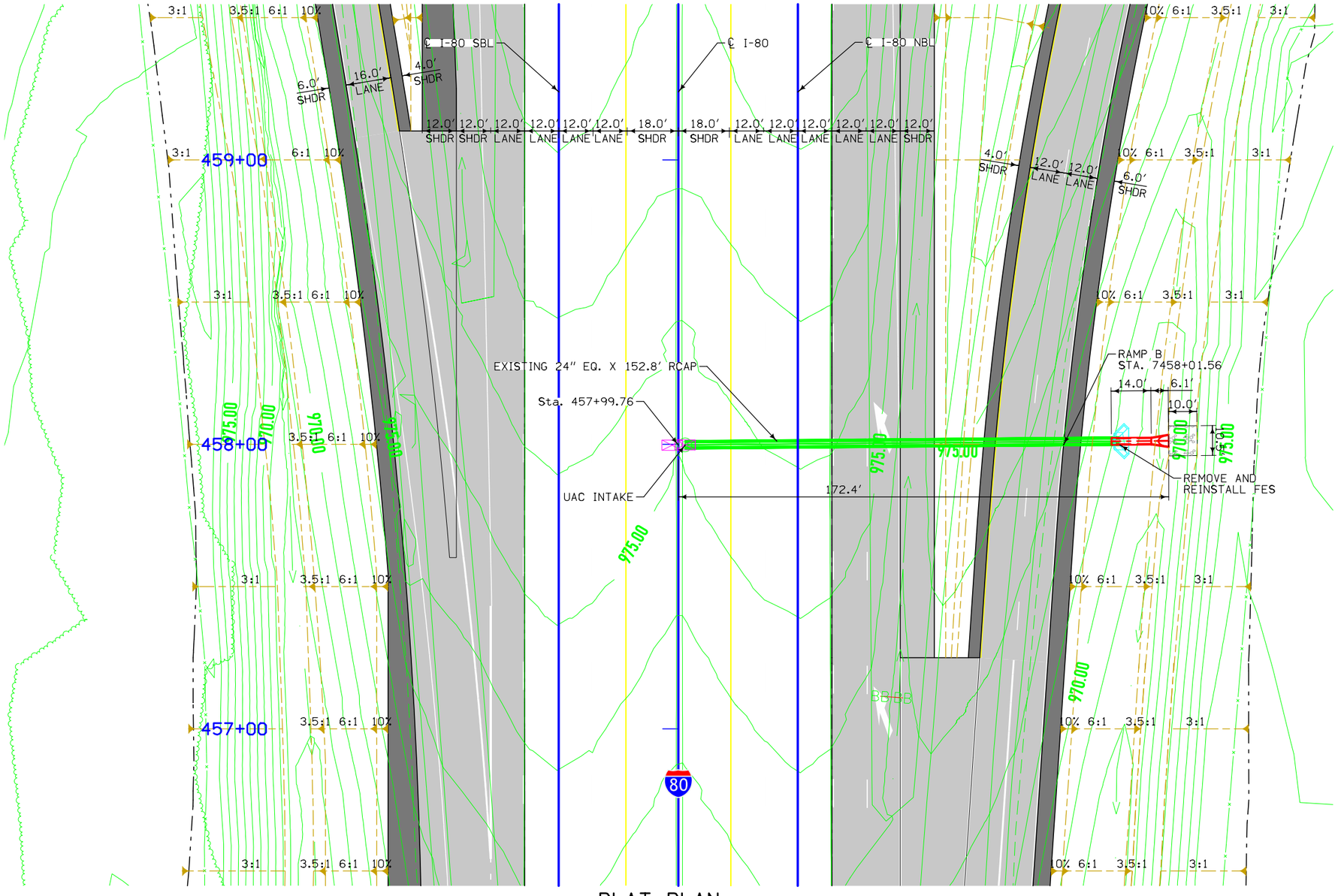

PLAT PLAN

0 ENGLISH 40
SCALE IN FEET

UTILITIES LEGEND:

REFER TO D.1

HYDRAULIC DATA

DRAINAGE AREA = MEDIAN

LOCATION

I-80
T-79N R-25W
SECTION 29
WALNUT TOWNSHIP
POLK COUNTY

DESIGN FOR 0° SKEW

24" EQ. X 14'
2000D REINFORCED CONCRETE ARCH PIPE EXTENSION
PLAT PLAN

STATION 457+99.76 NBL 5/24/2022

POLK COUNTY

IOWA DEPARTMENT OF TRANSPORTATION

DESIGN SHEET NO. ____ OF ____ FILE NO. _____ DESIGN NO. _____

FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER V.119

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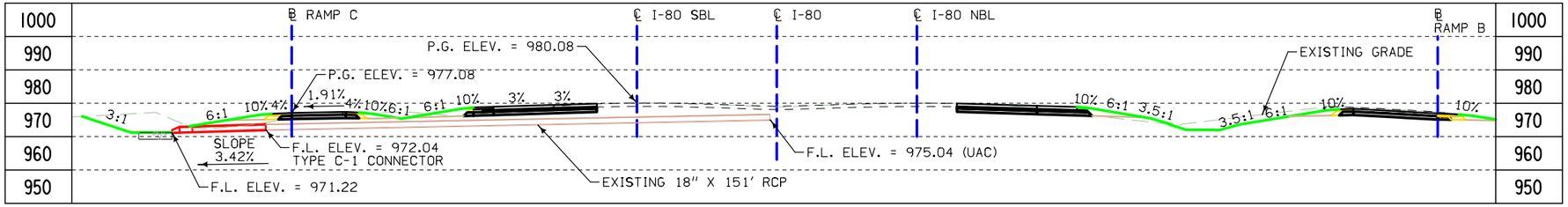

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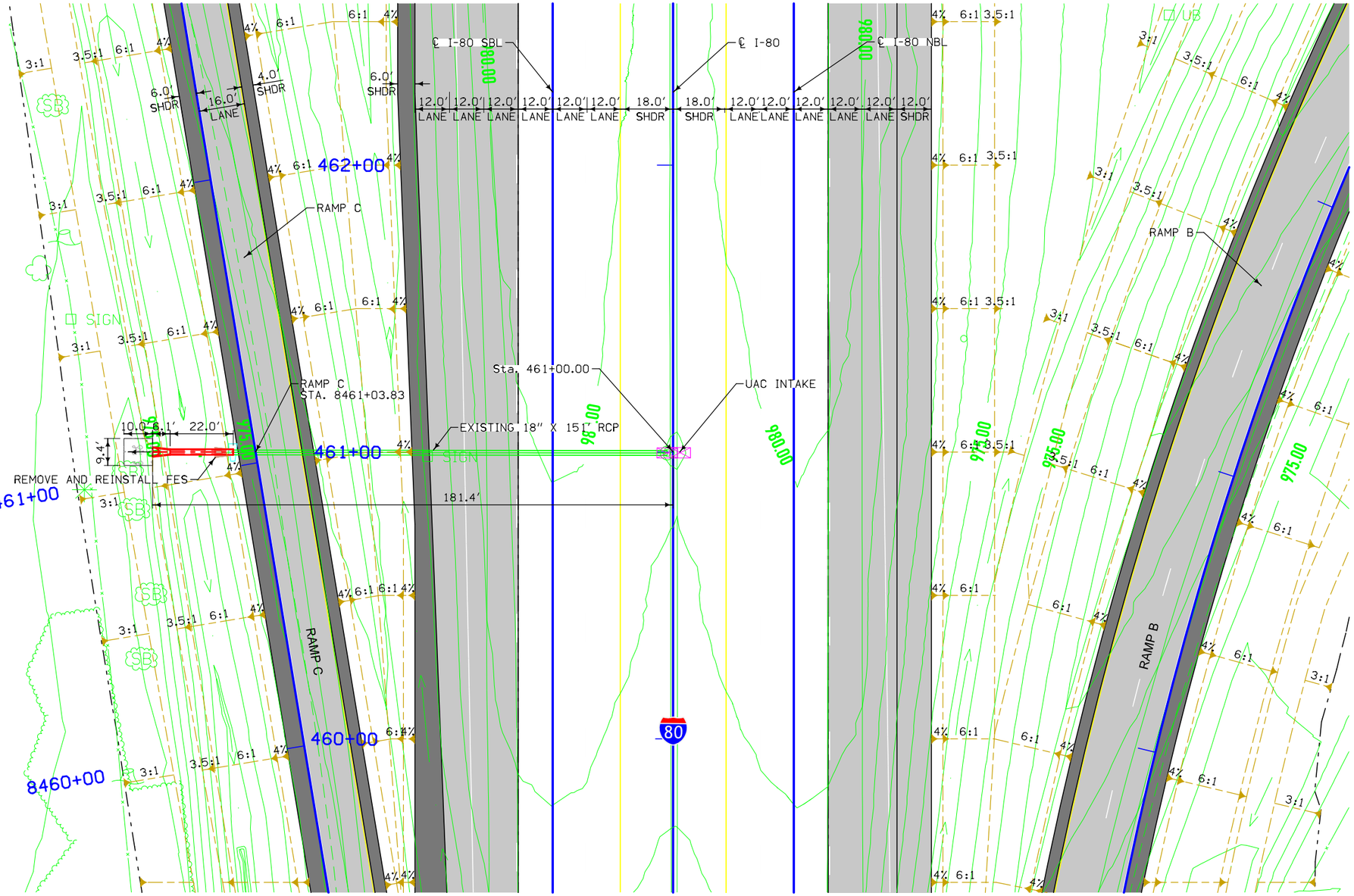

PLAT PLAN

N

0 ENGLISH 40
SCALE IN FEET

UTILITIES LEGEND:

REFER TO D.1

HYDRAULIC DATA

DRAINAGE AREA = MEDIAN

LOCATION

I-80
T-79N R-25W
SECTION 29
WBSTER TOWNSHIP
POLK COUNTY

DESIGN FOR 0° SKEW

18" X 22'
2000D REINFORCED CONCRETE PIPE EXTENSION
PLAT PLAN

STATION 461+00.00 SBL 5/24/2022

POLK COUNTY

IOWA DEPARTMENT OF TRANSPORTATION

DESIGN SHEET NO. ____ OF ____ FILE NO. _____ DESIGN NO. _____

FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER V.120

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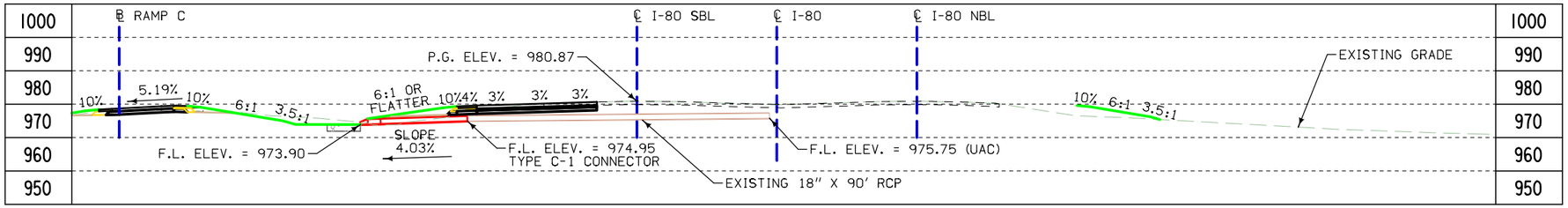

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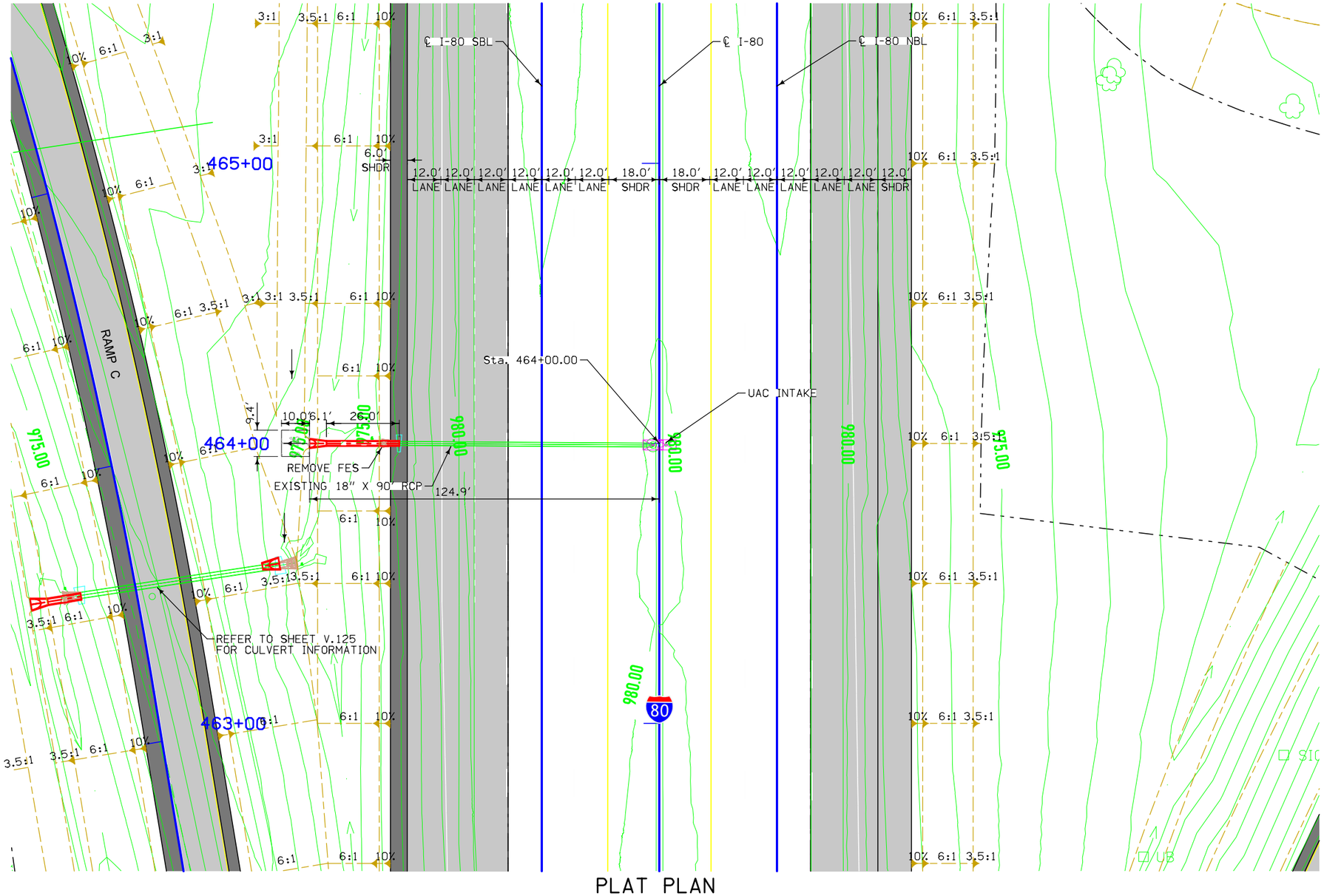

PLAT PLAN

UTILITIES LEGEND:

REFER TO D.1

HYDRAULIC DATA

DRAINAGE AREA = MEDIAN

LOCATION

I-80
T-79N R-25W
SECTION 29
WEBSTER TOWNSHIP
POLK COUNTY

DESIGN FOR 0° SKEW

18" X 26'
2000D REINFORCED CONCRETE PIPE EXTENSION
PLAT PLAN

STATION 464+00.00 SBL 5/24/2022

POLK COUNTY

IOWA DEPARTMENT OF TRANSPORTATION

DESIGN SHEET NO. ___ OF ___ FILE NO. _____ DESIGN NO. _____

FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER V.121

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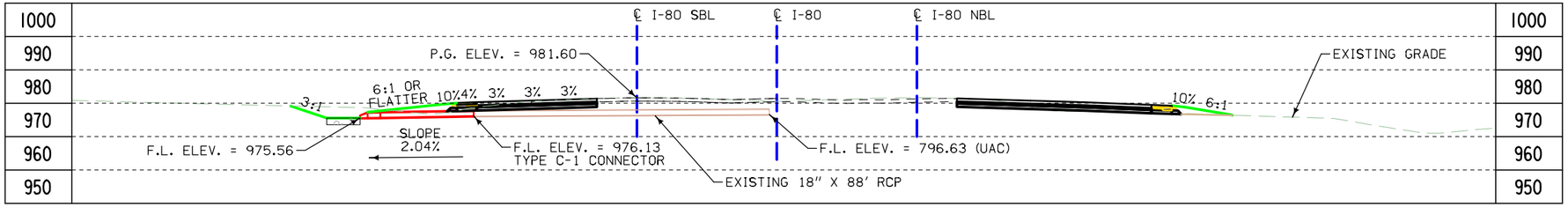

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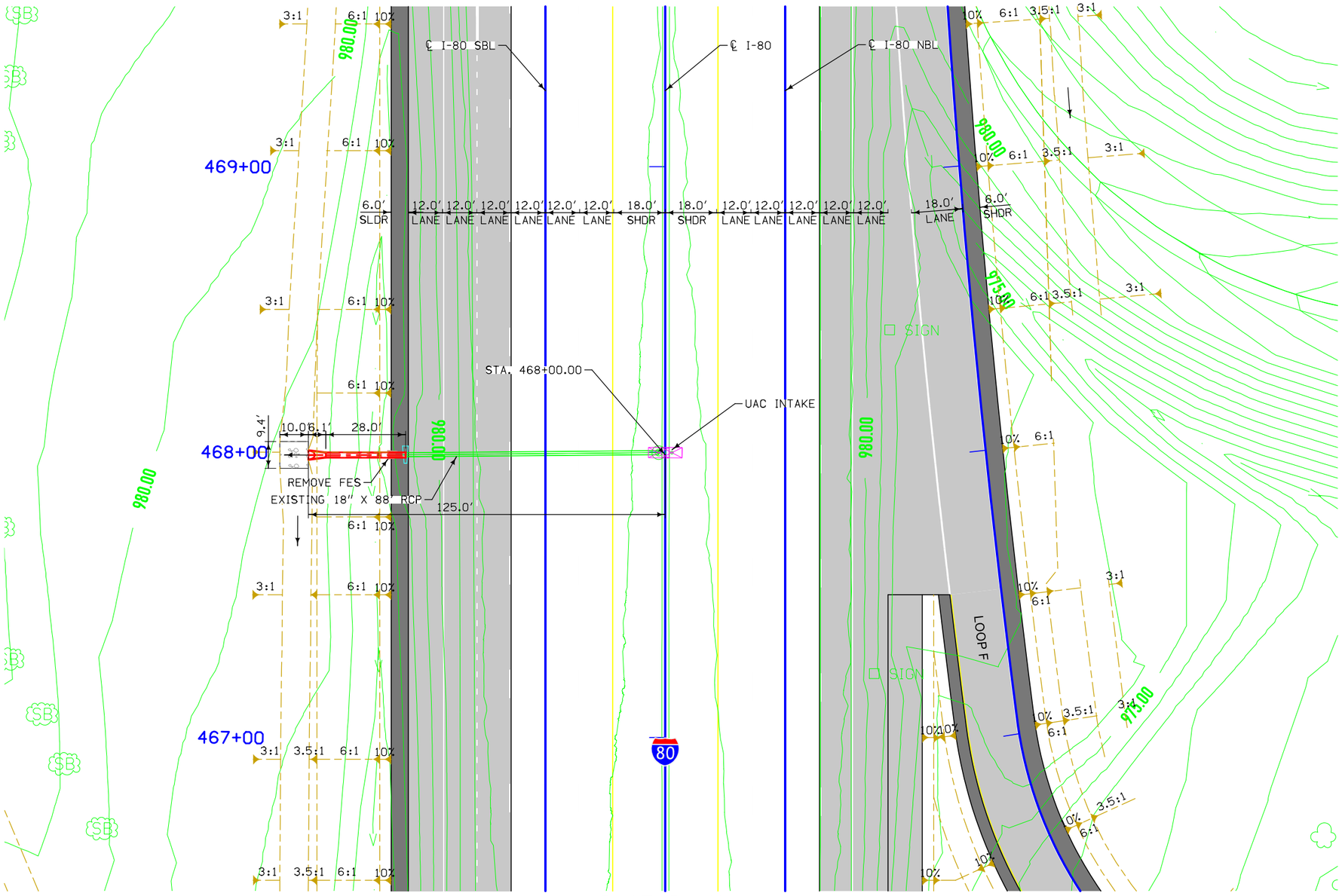

PLAT PLAN

N

0 ENGLISH 40
SCALE IN FEET

UTILITIES LEGEND:

REFER TO D.1

HYDRAULIC DATA

DRAINAGE AREA = MEDIAN

LOCATION

I-80
T-79N R-25W
SECTION 29
WEBSTER TOWNSHIP
POLK COUNTY

DESIGN FOR 0° SKEW

18" X 28'
2000D REINFORCED CONCRETE PIPE EXTENSION
PLAT PLAN

STATION 468+00.00 SBL 5/24/2022

POLK COUNTY

IOWA DEPARTMENT OF TRANSPORTATION

DESIGN SHEET NO. ____ OF ____ FILE NO. _____ DESIGN NO. _____

FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER V.122

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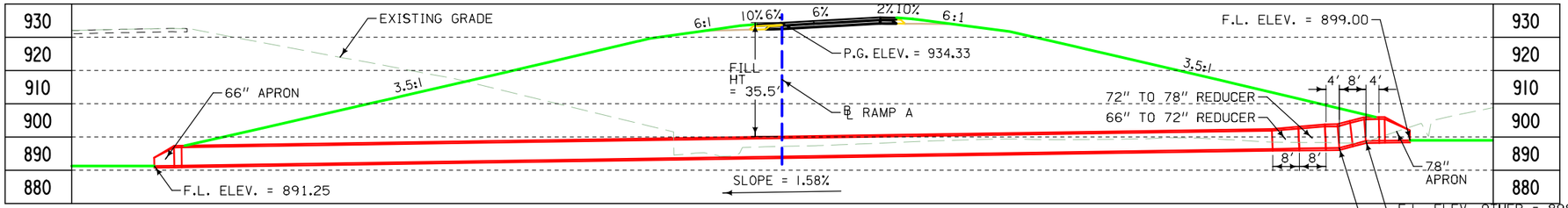

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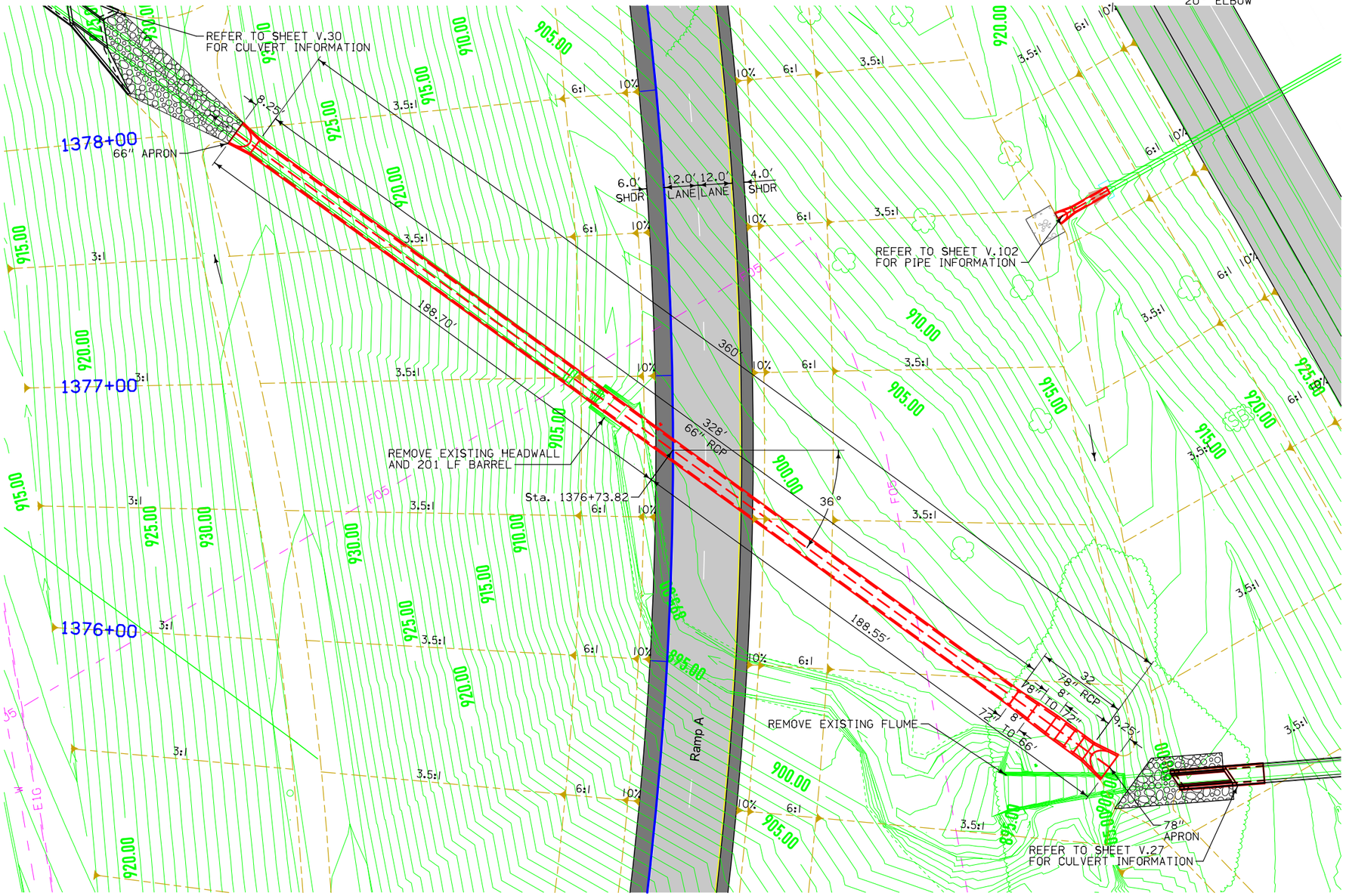

PLAT PLAN

N

0 ENGLISH 40
SCALE IN FEET

UTILITIES LEGEND:

REFER TO D.1

HYDRAULIC DATA

DRAINAGE AREA = 209.3 ACRES HILLY/ROLLING
DESIGN DISCHARGE, Q_{50} = 295.8 CFS

LOCATION

I-80
T-79N R-25W
SECTION 32
WALNUT TOWNSHIP
POLK COUNTY

NOTE:

SPECIAL BEDDING REQUIRED

DESIGN FOR 36° SKEW LT AH

66" X 328' AND 78" X 32' 3750D REINFORCED CONCRETE SLOPE TAPERED PIPE

STATION 1376+73.82 (RAMP A UNIVERSITY)

PLAT PLAN

POLK COUNTY

5/24/2022

IOWA DEPARTMENT OF TRANSPORTATION

DESIGN SHEET NO. ____ OF ____ FILE NO. _____ DESIGN NO. _____

FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER V.123

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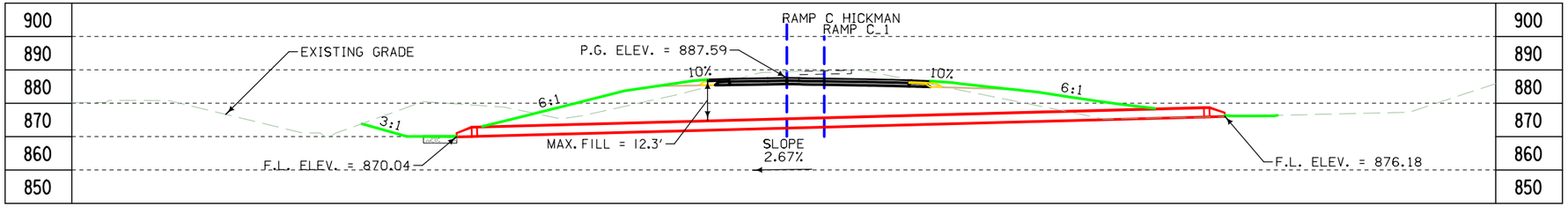

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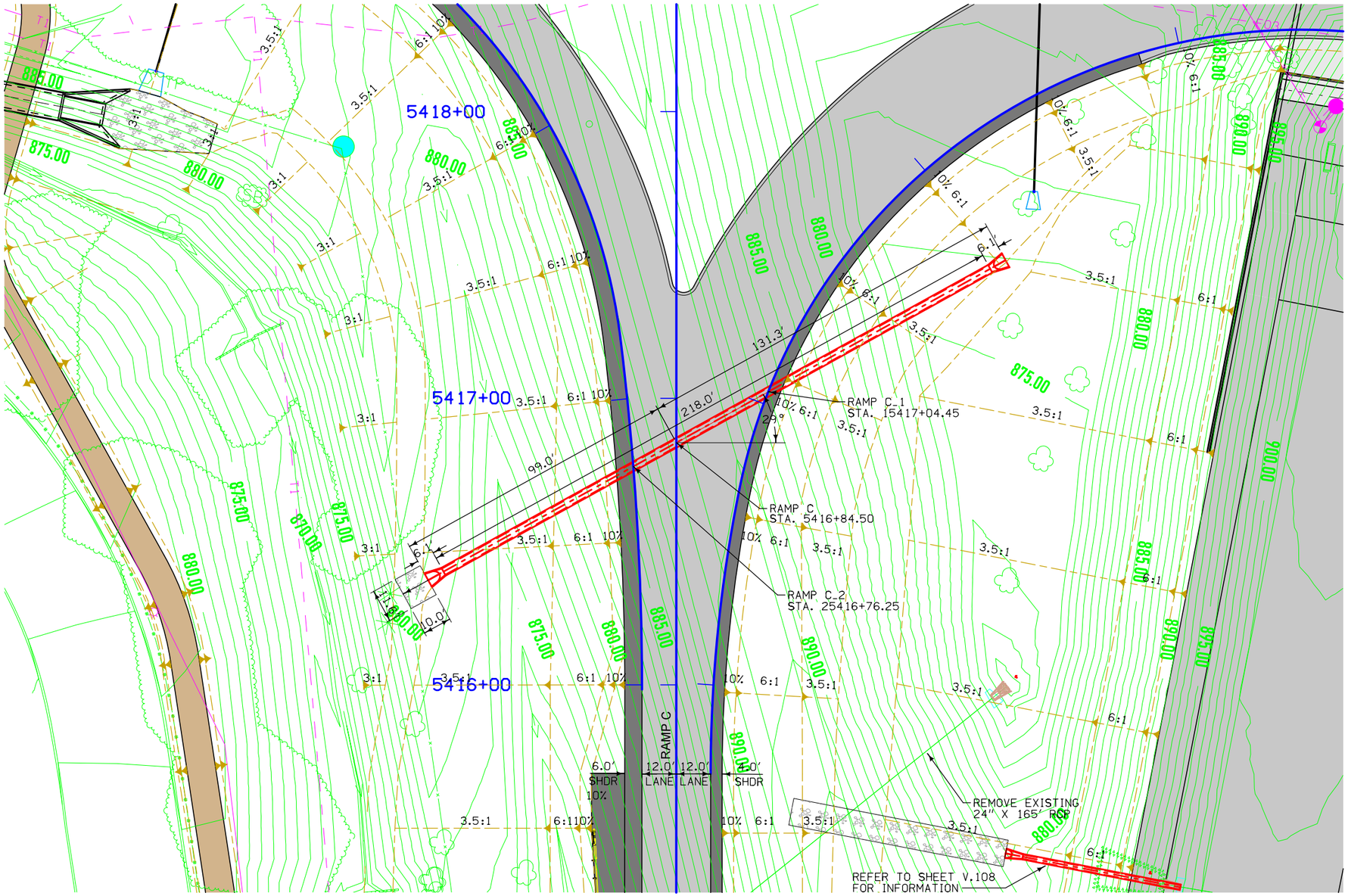

PLAT PLAN



0 ENGLISH 40
SCALE IN FEET

UTILITIES LEGEND:

REFER TO D.1

HYDRAULIC DATA

DRAINAGE AREA = 9.6 ACRES HILLY/ROLLING
DESIGN DISCHARGE, Q_{50} = 50.00 CFS

LOCATION

I-80
T-79N R-25W
SECTION 32
WALNUT TOWNSHIP
POLK COUNTY

DESIGN FOR 27° SKEW RT AH

30" X 218'
2000D REINFORCED CONCRETE PIPE
PLAT PLAN

STATION 5416+84.50
(RAMP C HICKMAN)

5/24/2022

POLK COUNTY

IOWA DEPARTMENT OF TRANSPORTATION

DESIGN SHEET NO. ___ OF ___ FILE NO. _____ DESIGN NO. _____

FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER V.124

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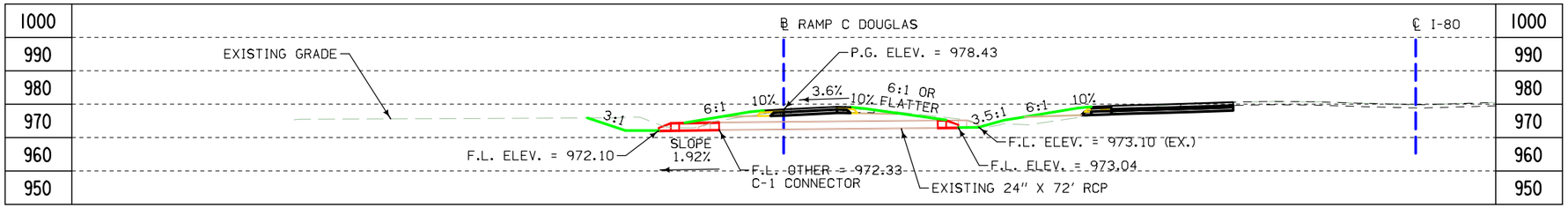
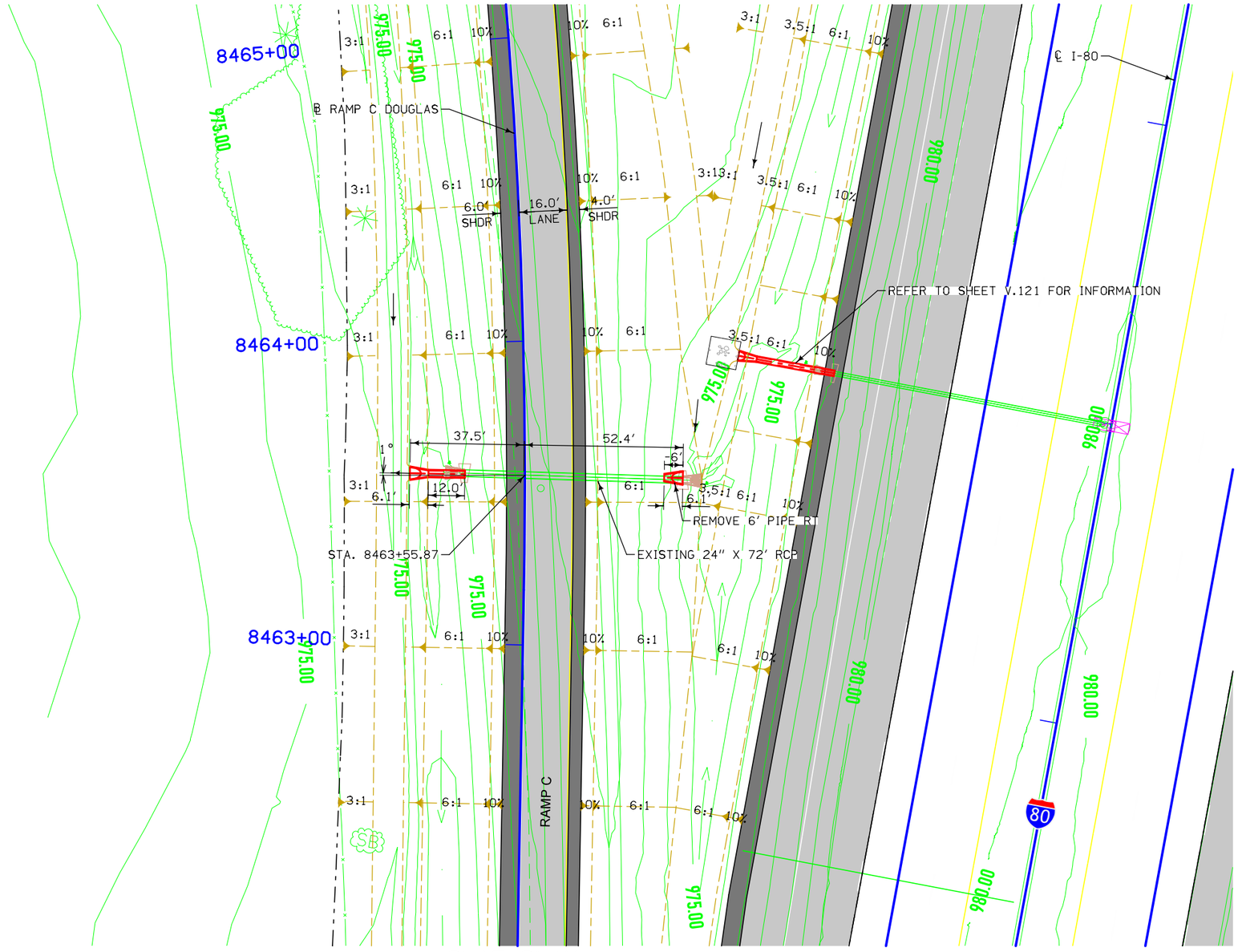


LONGITUDINAL SECTION ALONG ℄ CULVERT



PLAT PLAN

N

0 ENGLISH 40
SCALE IN FEET

UTILITIES LEGEND:

REFER TO D.1

HYDRAULIC DATA

DRAINAGE AREA = MEDIAN

LOCATION

I-80
T-79N R-25W
SECTION 29
WEBSTER TOWNSHIP
POLK COUNTY

DESIGN FOR 1° SKEW LT AH

24" X 12' 2000D REINFORCED CONCRETE PIPE EXTENSION PLAT PLAN

STATION 8463+55.87
(RAMP C DOUGLAS)

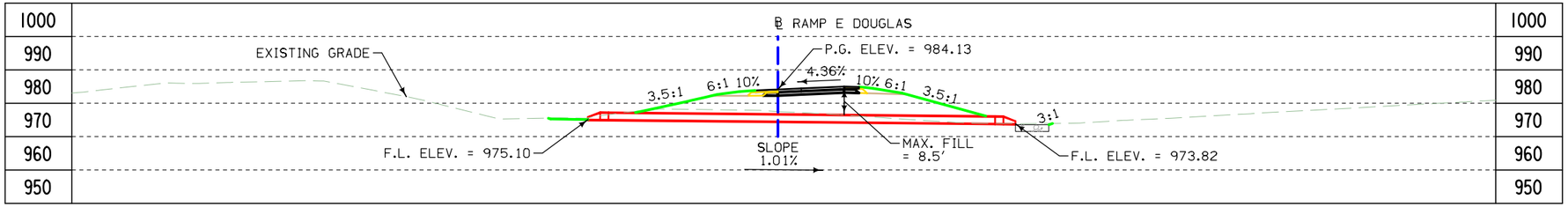
5/24/2022

POLK COUNTY
IOWA DEPARTMENT OF TRANSPORTATION

DESIGN SHEET NO. ____ OF ____ FILE NO. _____ DESIGN NO. _____

FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER V.125

2:43:13 PM 6/30/2022 mbeerends pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\7708006015\Design_(069)_PrelimDesign\CADD_Files\Sheet_Files\SHT_77080069Z08_V125.dgn



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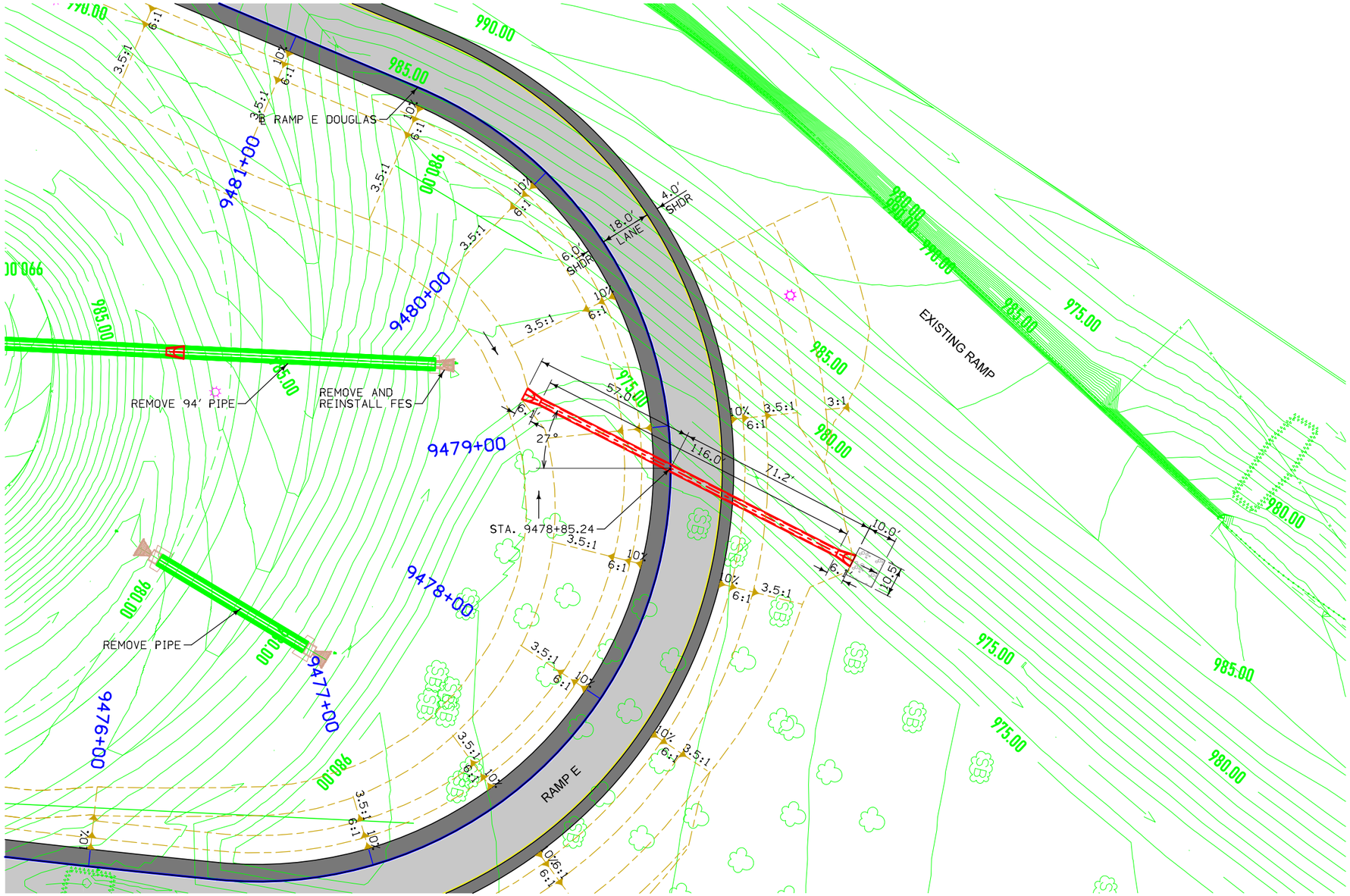

PLAT PLAN

N

0 ENGLISH 40
SCALE IN FEET

UTILITIES LEGEND:

REFER TO D.1

HYDRAULIC DATA

DRAINAGE AREA = 5.00 ACRES ROLLING / HILLY
DESIGN DISCHARGE, Q_{50} = 17.3 CFS

LOCATION

I-80
T-79N R-25W
SECTION 20
WEBSTER TOWNSHIP
POLK COUNTY

DESIGN FOR 27° SKEW LT AH

24" X 116'
2000D REINFORCED CONCRETE PIPE
PLAT PLAN

STATION 9478+85.24
(RAMP E DOUGLAS)

5/24/2022

POLK COUNTY

IOWA DEPARTMENT OF TRANSPORTATION

DESIGN SHEET NO. ____ OF ____ FILE NO. _____ DESIGN NO. _____

FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER V.126

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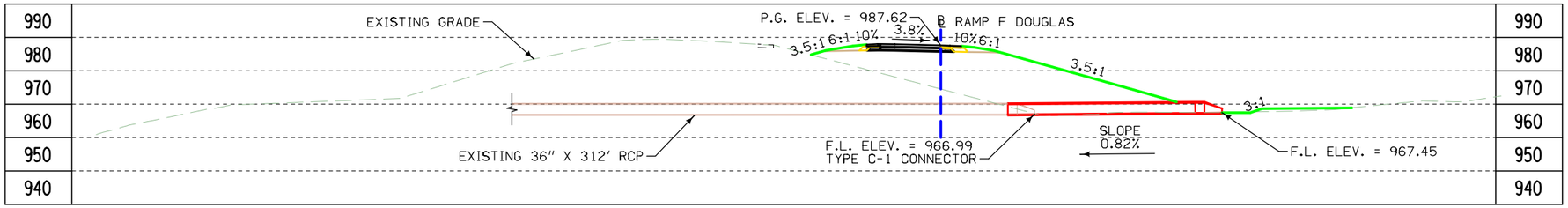
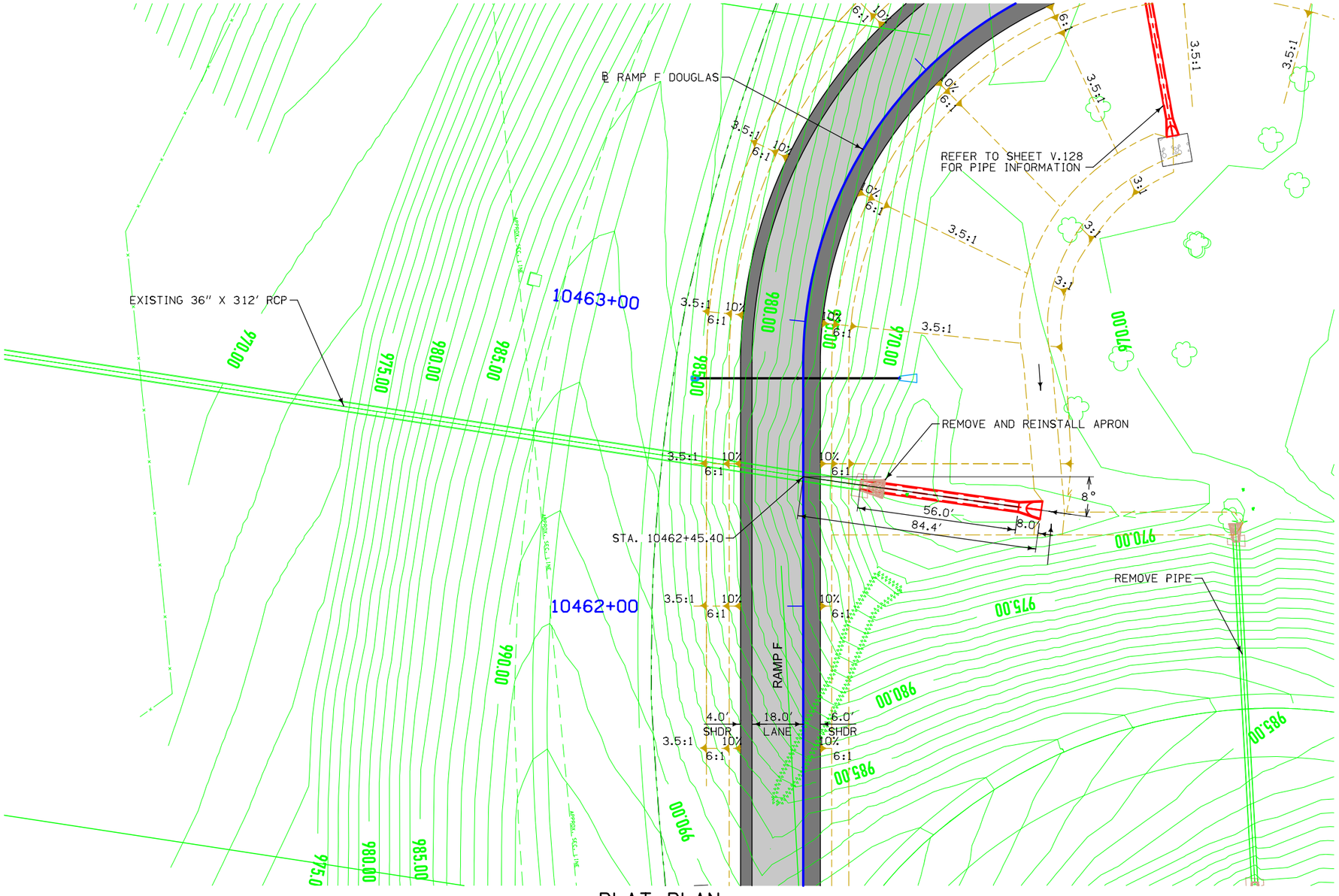


LONGITUDINAL SECTION ALONG ℄ CULVERT



PLAT PLAN

N

0 ENGLISH 40
SCALE IN FEET

UTILITIES LEGEND:

REFER TO D.1

HYDRAULIC DATA

DRAINAGE AREA = MEDIAN

LOCATION

I-80
T-79N R-25W
SECTION 29
WEBSTER TOWNSHIP
POLK COUNTY

DESIGN FOR 8° SKEW LT AH

36" X 56'
2000D REINFORCED CONCRETE PIPE EXTENSION
PLAT PLAN

STATION 10462+45.40 (RAMP F DOUGLAS)

5/24/2022

POLK COUNTY

IOWA DEPARTMENT OF TRANSPORTATION

DESIGN SHEET NO. ____ OF ____ FILE NO. _____ DESIGN NO. _____

FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER V.127

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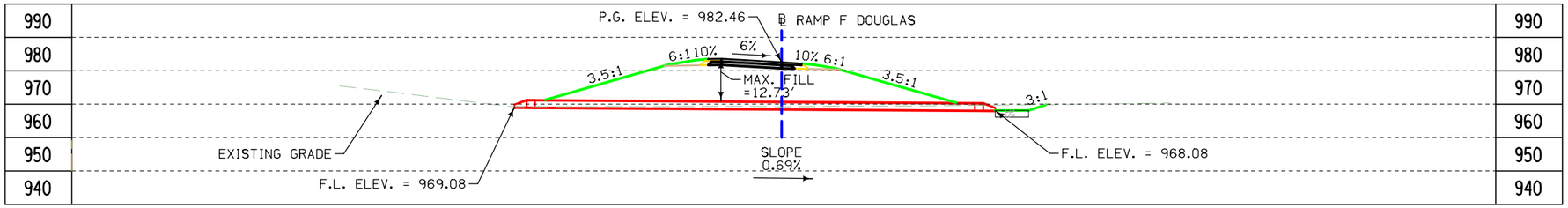

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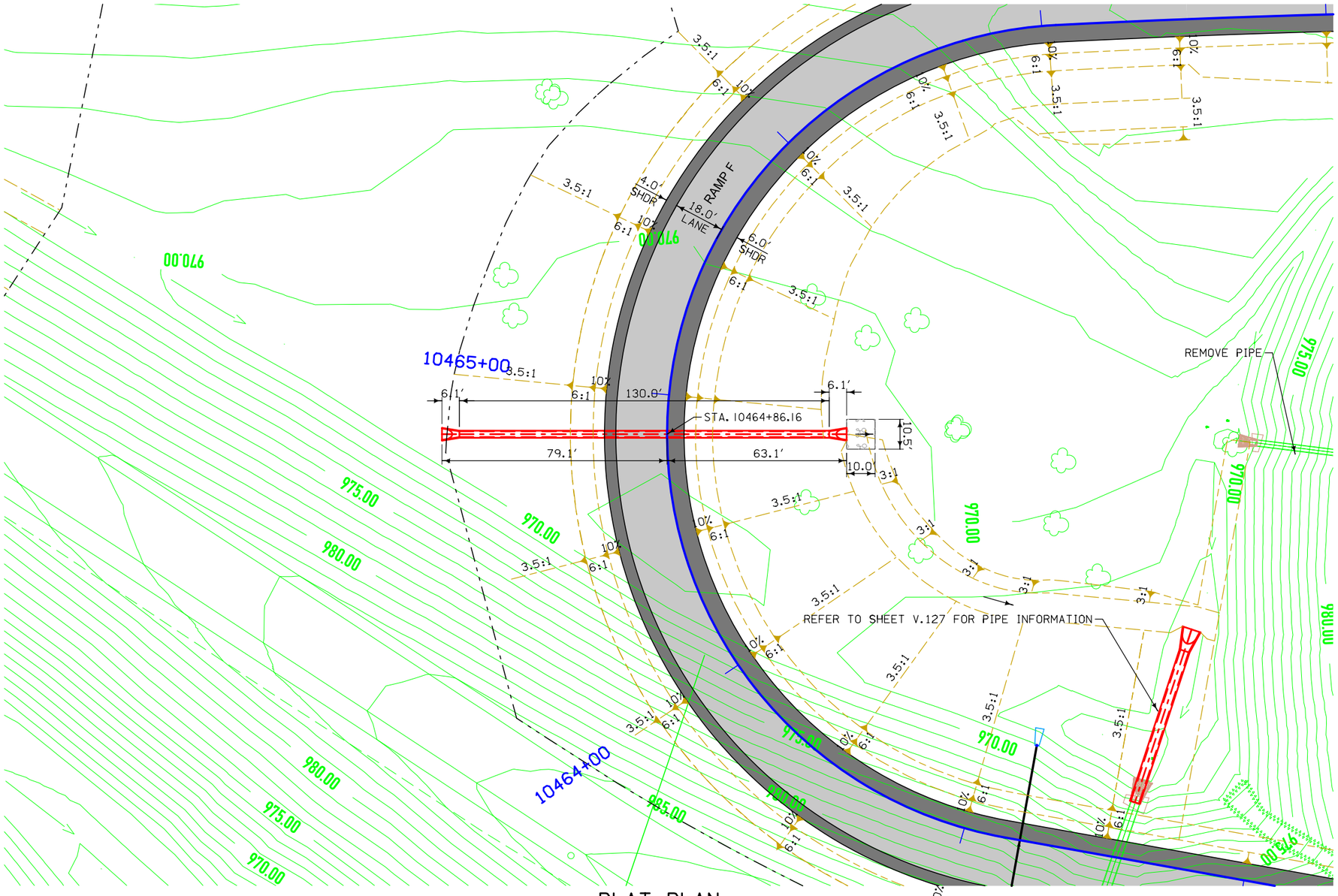

PLAT PLAN

N

0 ENGLISH 40
SCALE IN FEET

UTILITIES LEGEND:

REFER TO D.1

HYDRAULIC DATA

DRAINAGE AREA = 3.86 ACRES ROLLING
DESIGN DISCHARGE, Q_{50} = 12.19 CFS

LOCATION

I-80
T-79N R-25W
SECTION 29
WALNUT TOWNSHIP
POLK COUNTY

DESIGN FOR 0° SKEW

24" X 130'
2000D REINFORCED CONCRETE PIPE
PLAT PLAN

STATION 10464+86.16
(RAMP F DOUGLAS)

5/24/2022

POLK COUNTY
IOWA DEPARTMENT OF TRANSPORTATION

DESIGN SHEET NO. ____ OF ____ FILE NO. _____ DESIGN NO. _____

FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER V.128

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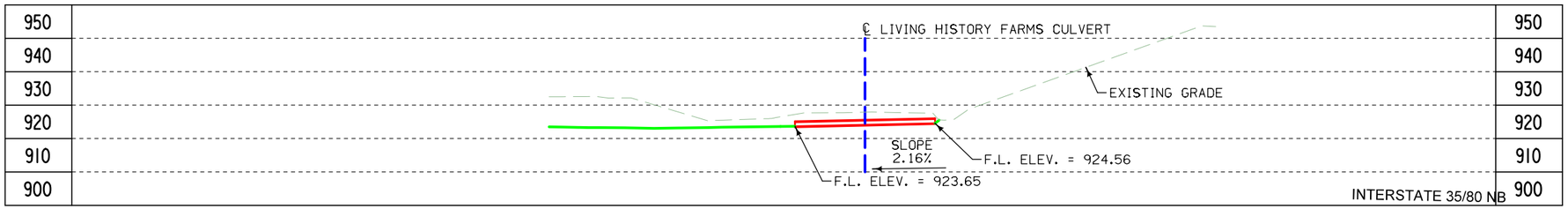
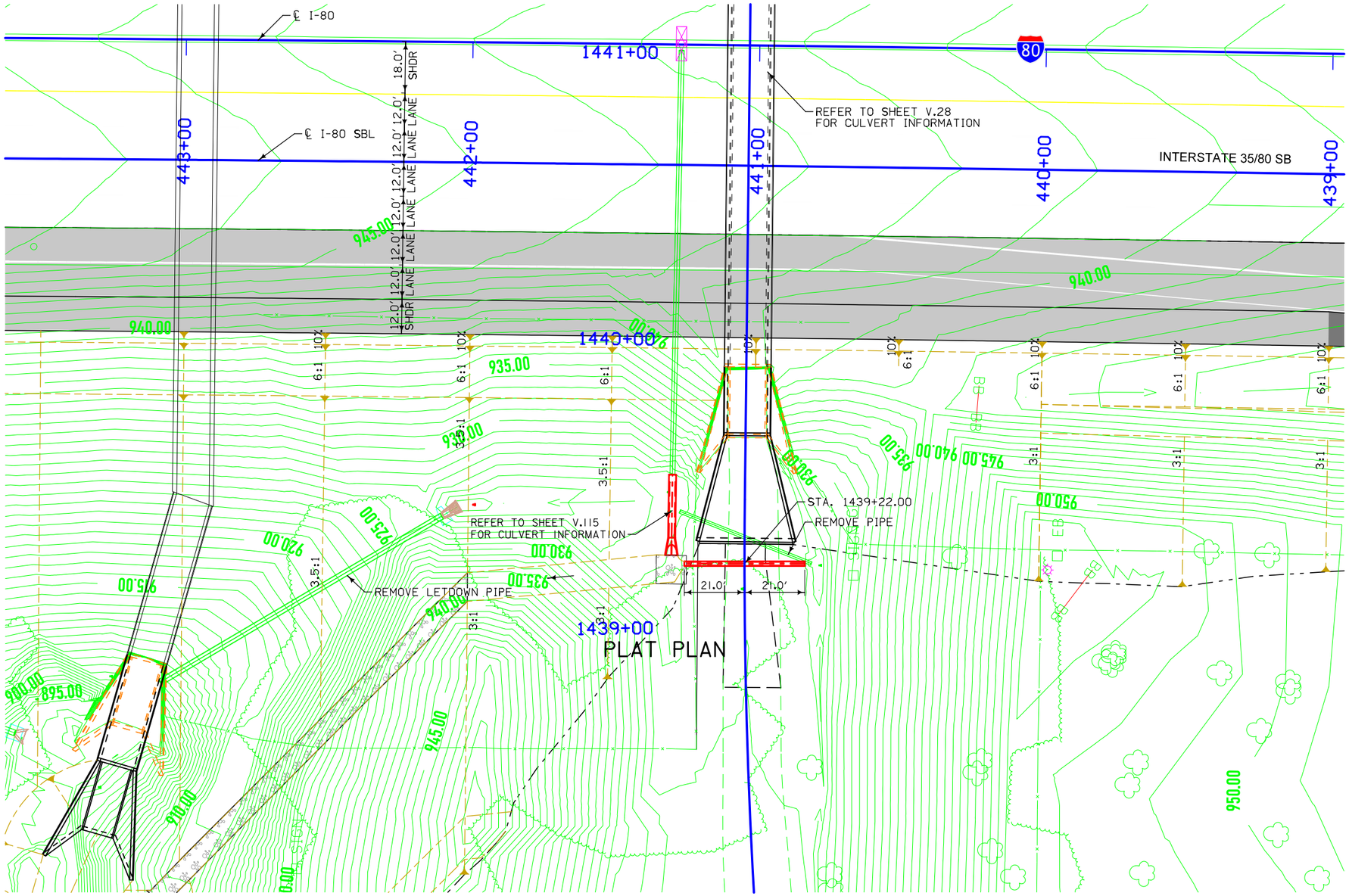


LONGITUDINAL SECTION ALONG ℄ CULVERT





0 ENGLISH 40
SCALE IN FEET

UTILITIES LEGEND:

REFER TO D.1

HYDRAULIC DATA

DRAINAGE AREA =

LOCATION

I-80
T-79N R-25W
SECTION 29
WALNUT TOWNSHIP
POLK COUNTY

DESIGN FOR 0° SKEW

15" X 42' PVC PIPE CULVERT PLAT PLAN

STATION 1439+22.00 5/24/2022

POLK COUNTY

IOWA DEPARTMENT OF TRANSPORTATION

DESIGN SHEET NO. ____ OF ____ FILE NO. _____ DESIGN NO. _____

FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER V.129

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LINE STYLE LEGEND OF CROSS SECTION SHEETS (ROAD)

- Existing Ground Line
- Proposed Template
- Proposed Topsoil Placement
- Additional Topsoil Removal
- Subgrade Treatment
- Granular Shoulder
- Pavement
- Existing Pipe\RCB
- Proposed Pipe\RCB
- Proposed Dike
- All Elements Associated with Proposed Entrances

LINE STYLE LEGEND OF CROSS SECTION SHEETS (SOILS)

- TOPSOIL — Topsoil (Class 10)
- Slope Dressing Only
- CL 10 — Class 10 Materials
- SEL LO — Select Loams And Clay-Loams
- SEL SA — Select Sand
- UNS A — Unsuitable Type A Disposal
- UNS B — Unsuitable Type B Disposal
- UNS C — Unsuitable Type C Disposal
- SHALE — Shale
- WASTE — Waste
- BRK LS — Broken and Weathered Rock
- ROCK — Solid Rock
- BLDRS — Boulders

Note: All layer lines and descriptions identify layers above the line.

Note: Vertical or near vertical lines connecting soil layers at edges of cross sections are only for the purpose of calculating template quantities and do not depict soil stratification.

SYMBOL LEGEND OF CROSS SECTION SHEETS

Existing ROW — Existing Right-of-Way Limit

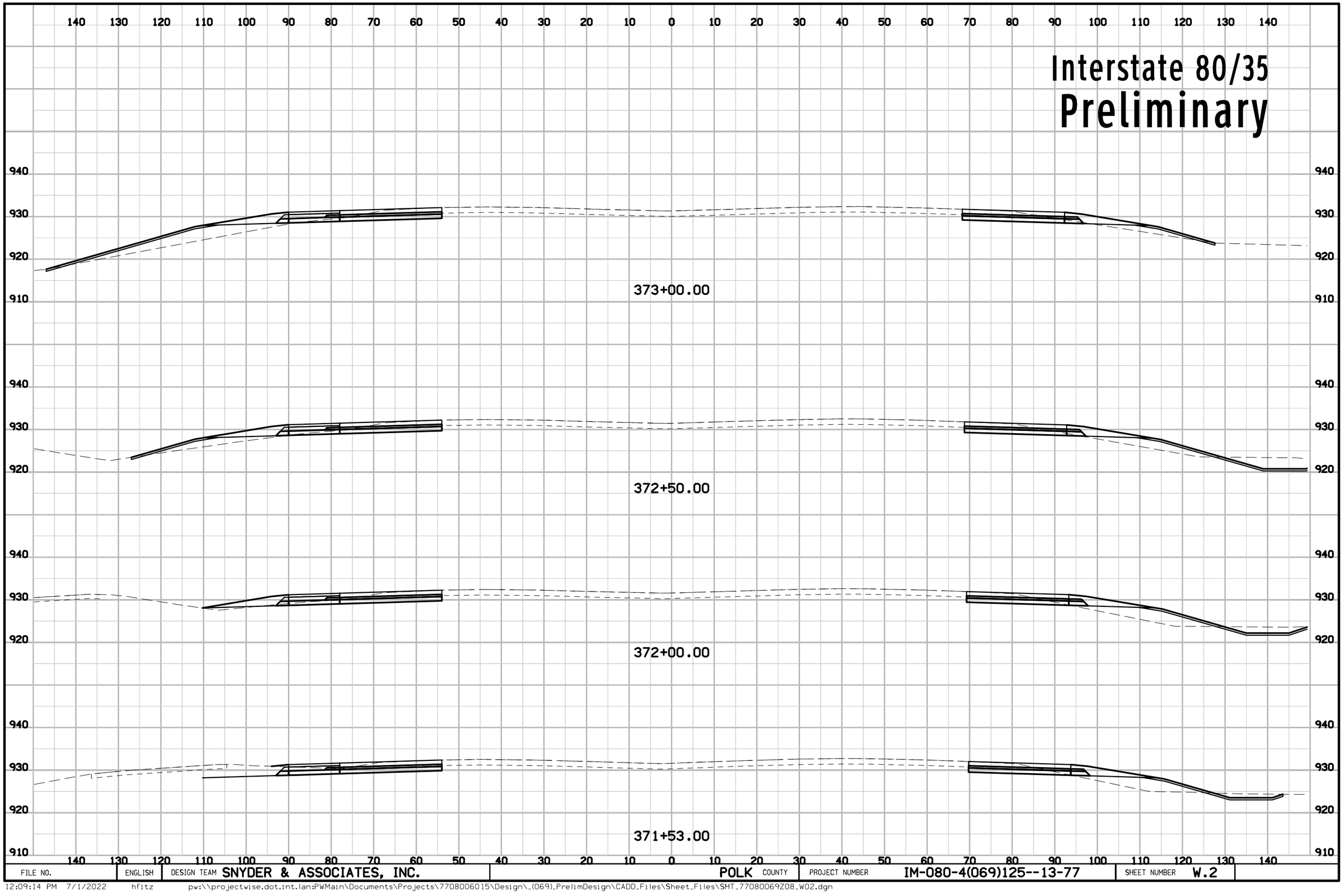
Proposed ROW — Proposed Right-of-Way Limit

Temporary ROW — Temporary Right-of-Way Limit

CROSS SECTION LEGEND AND SYMBOL INFORMATION SHEET

(COVERS SHEET SERIES W, X, Y, & Z)

Interstate 80/35
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER W.2

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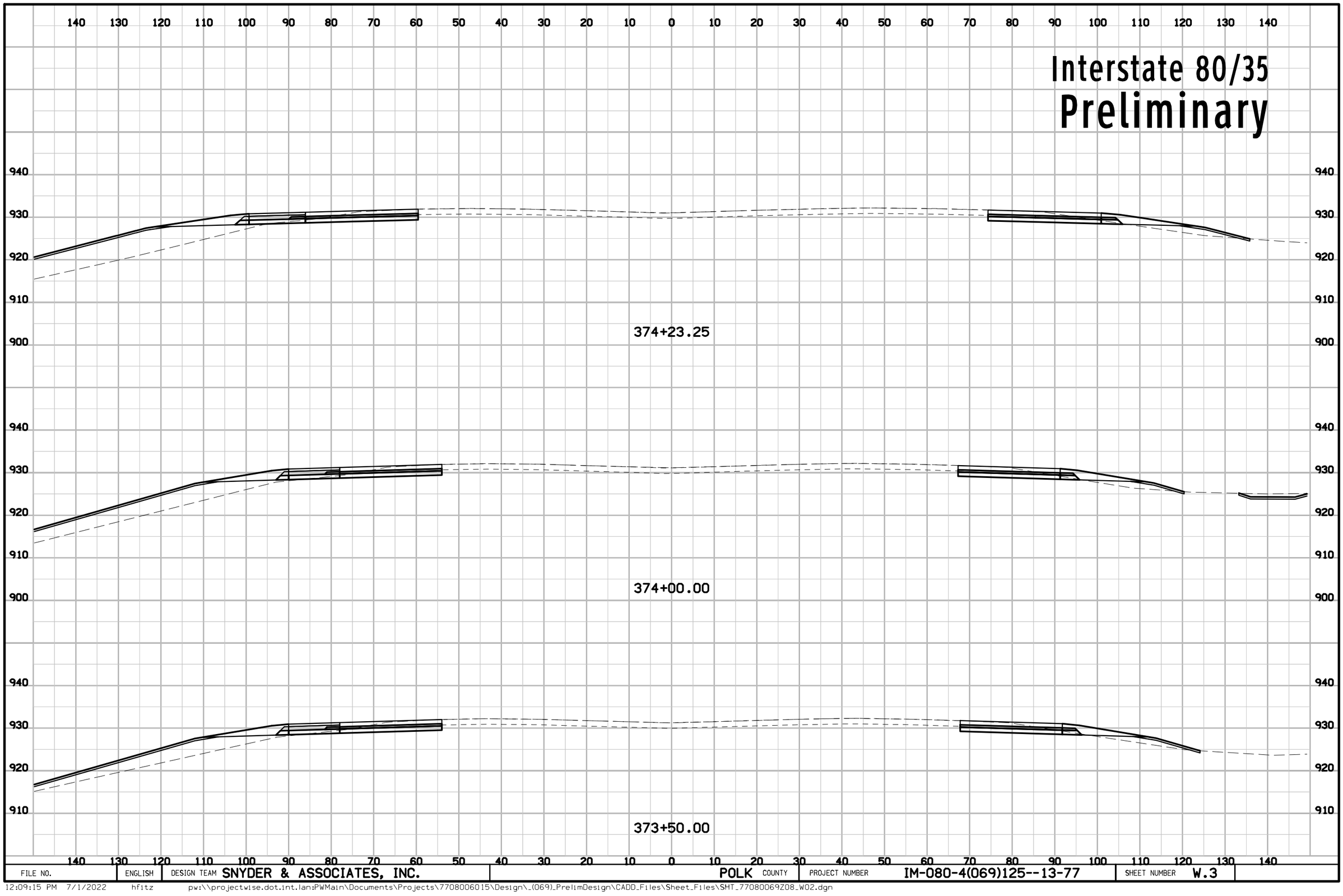
Interstate 80/35
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER W.3

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Interstate 80/35
Preliminary

140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140

940 930 920 910 900

375+50.00

940 930 920 910 900

375+00.00

940 930 920 910 900

374+50.00

140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140

FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER W.4

12:09:16 PM 7/1/2022 hfitz pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\7708006015\Design_(069)_PrelimDesign\CADD_Files\Sheet_Files\SHT_77080069Z08_W02.dgn

Interstate 80/35
Preliminary

140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140

940 930 920 910

377+00.00

940 930 920 910

376+50.00

940 930 920 910

376+00.00

900

FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER W.5

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Interstate 80/35
Preliminary

140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140

950 940 930 920 910

377+50.00

377+16.67

377+09.87

FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER W.6

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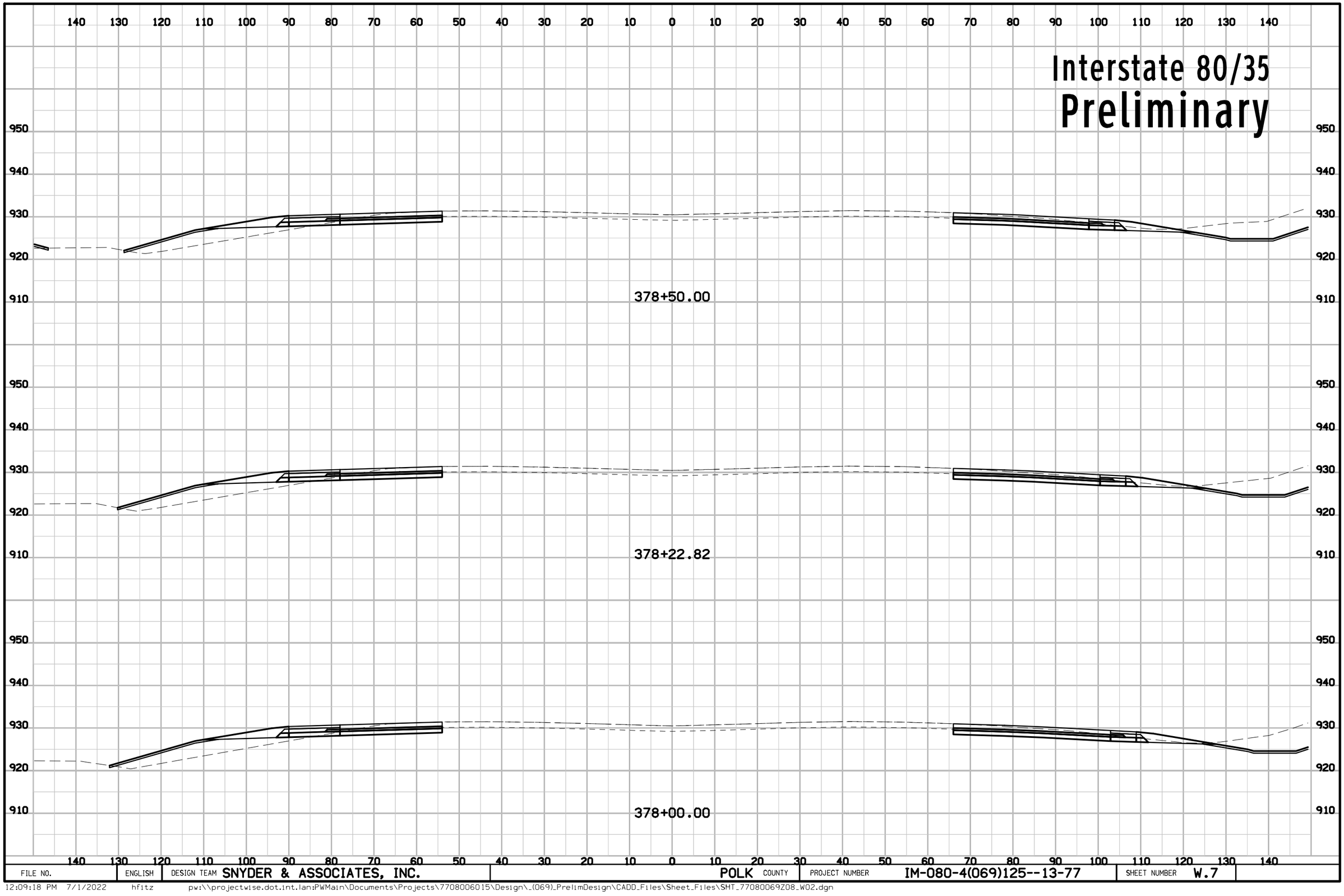
Interstate 80/35
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER W.7

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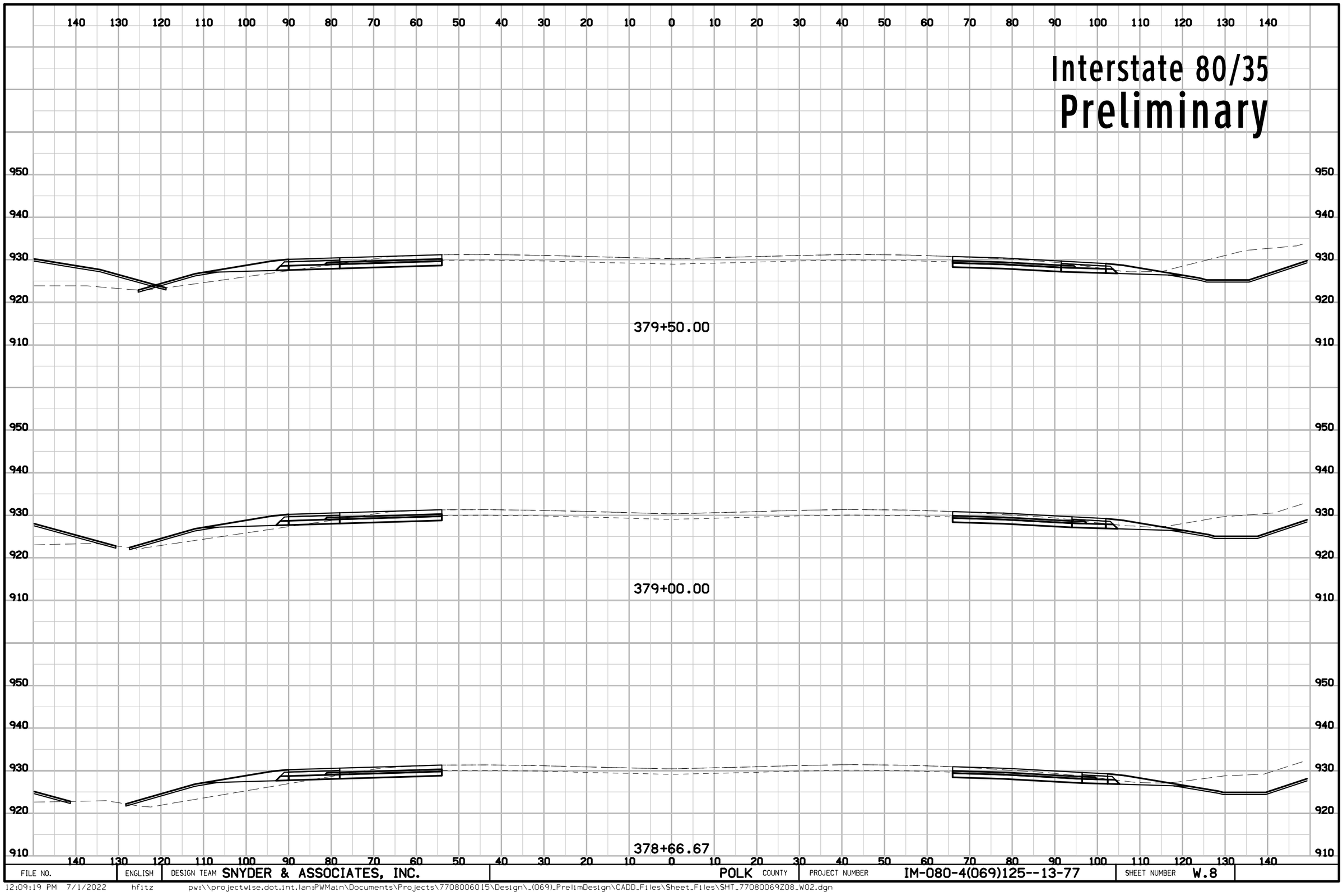
Interstate 80/35
Preliminary



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Interstate 80/35
Preliminary

140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140

950 940 930 920

380+26.82

380+01.82

380+00.00

379+76.82

910

FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER W.9

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Interstate 80/35
Preliminary

140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140

940 930 920

381+50.00

950 940 930 920

381+00.00

950 940 930 920

380+51.02

950 940 930 920

380+50.00

140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140

FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER W.10

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Interstate 80/35

Preliminary

140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140

940 930 920

383+50.00

383+00.00

382+75.00

382+50.00

382+00.00

FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER W.11

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Interstate 80/35

Preliminary

140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140

940
930
920

386+00.00

385+50.00

385+00.00

384+50.00

384+00.00

FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER W.12

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Interstate 80/35

Preliminary

140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140

930 920 910

387+50.00

930 920 910

387+00.00

930 920 910

386+55.00

930 920 910

386+50.00

940 930 920

386+00.31

140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140

FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER W.13

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Interstate 80/35
Preliminary

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930 920 910 900

389+00.00

930 920 910

388+75.00

930 920 910

388+50.00

930 920 910

388+00.00

930 920 910

140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140

FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER W.14

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Interstate 80/35
Preliminary

140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140

930 920 910 900

390+50.00

930 920 910 900

390+10.89

930 920 910 900

390+00.00

930 920 910 900

389+50.00

140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140

FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER W.15

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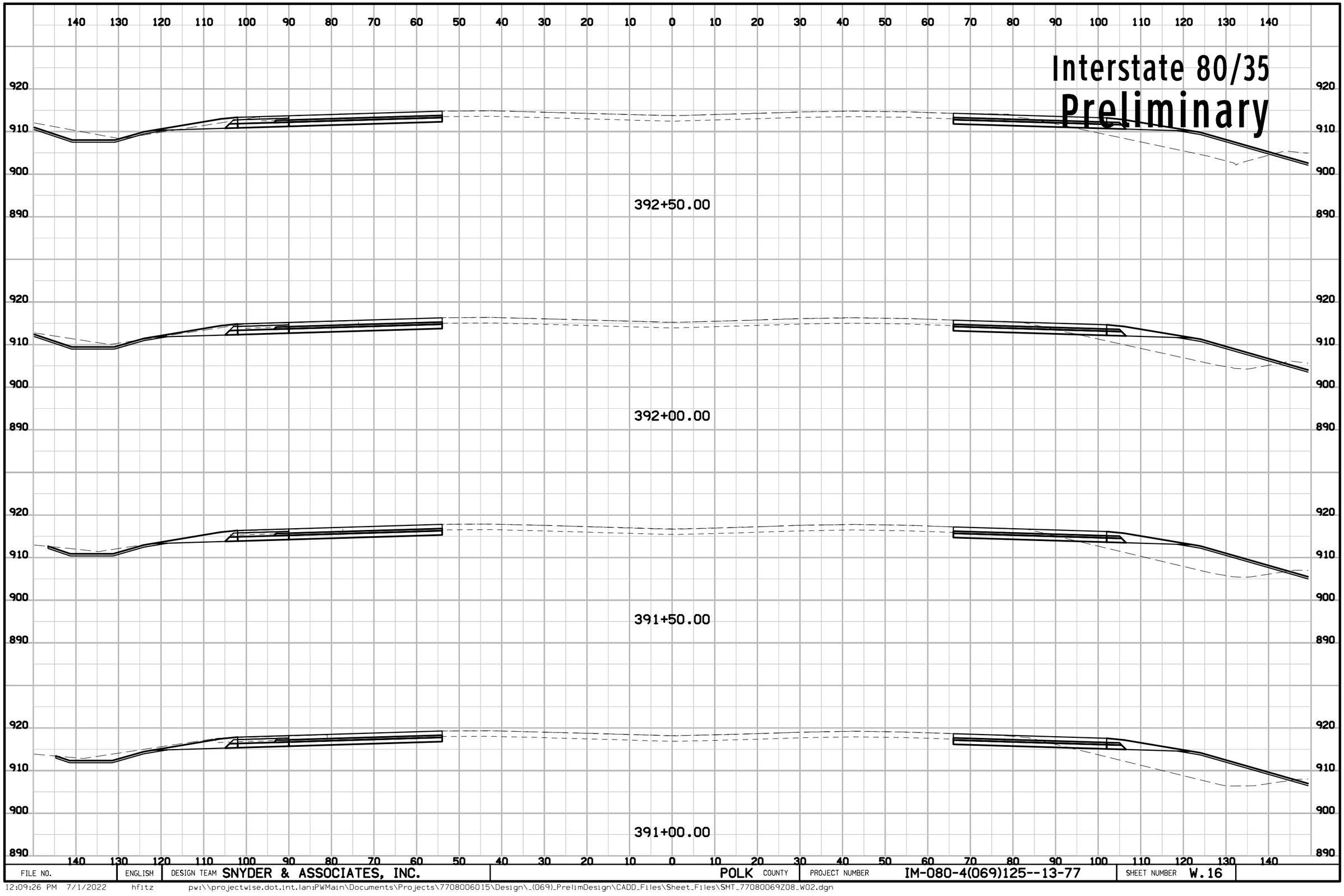
Interstate 80/35

Preliminary



FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER W.16

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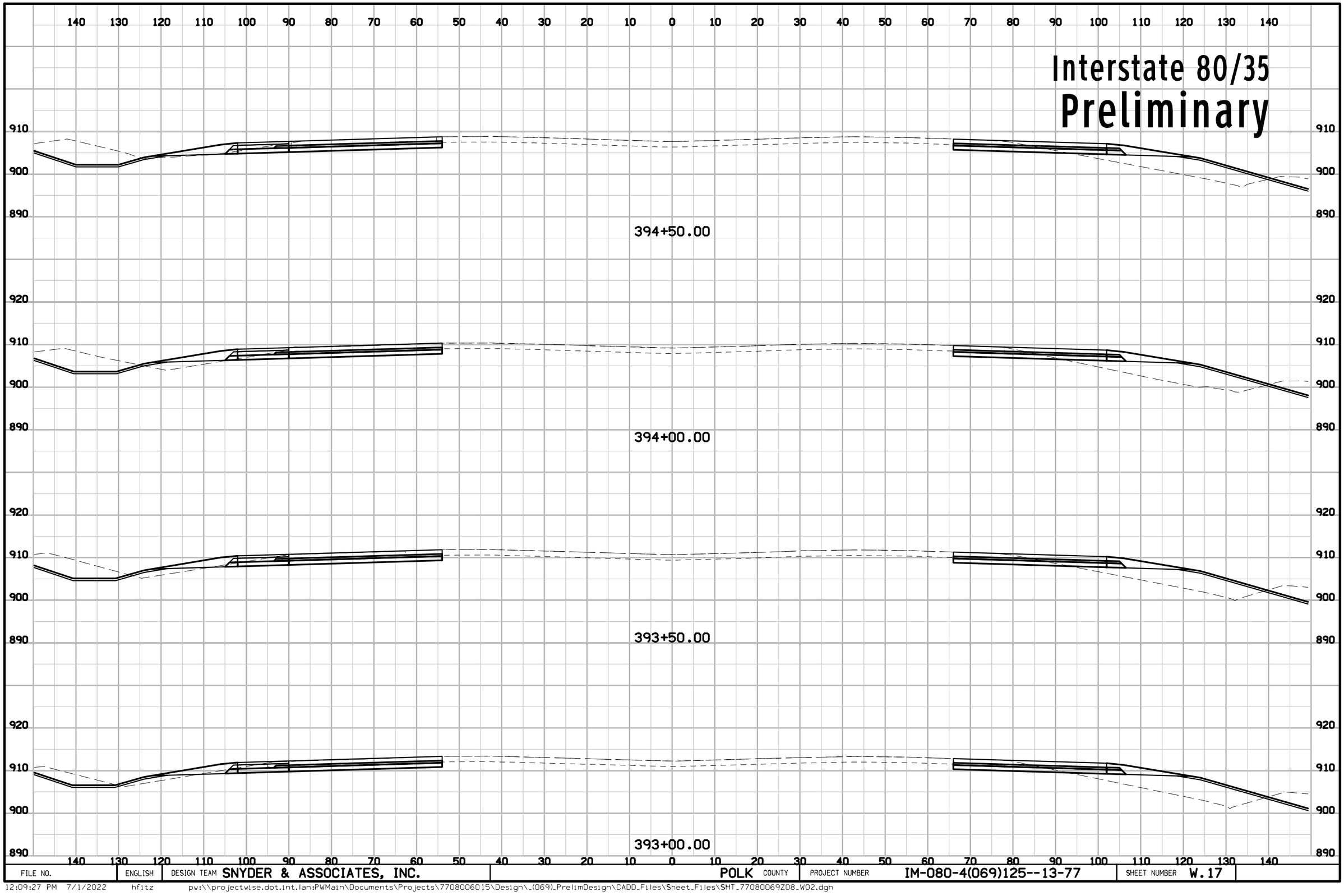
Interstate 80/35
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER W.17

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Interstate 80/35
Preliminary

140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140

920
910
900
890
880

ing

395+50.00

395+00.00

394+54.00

FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER W.18

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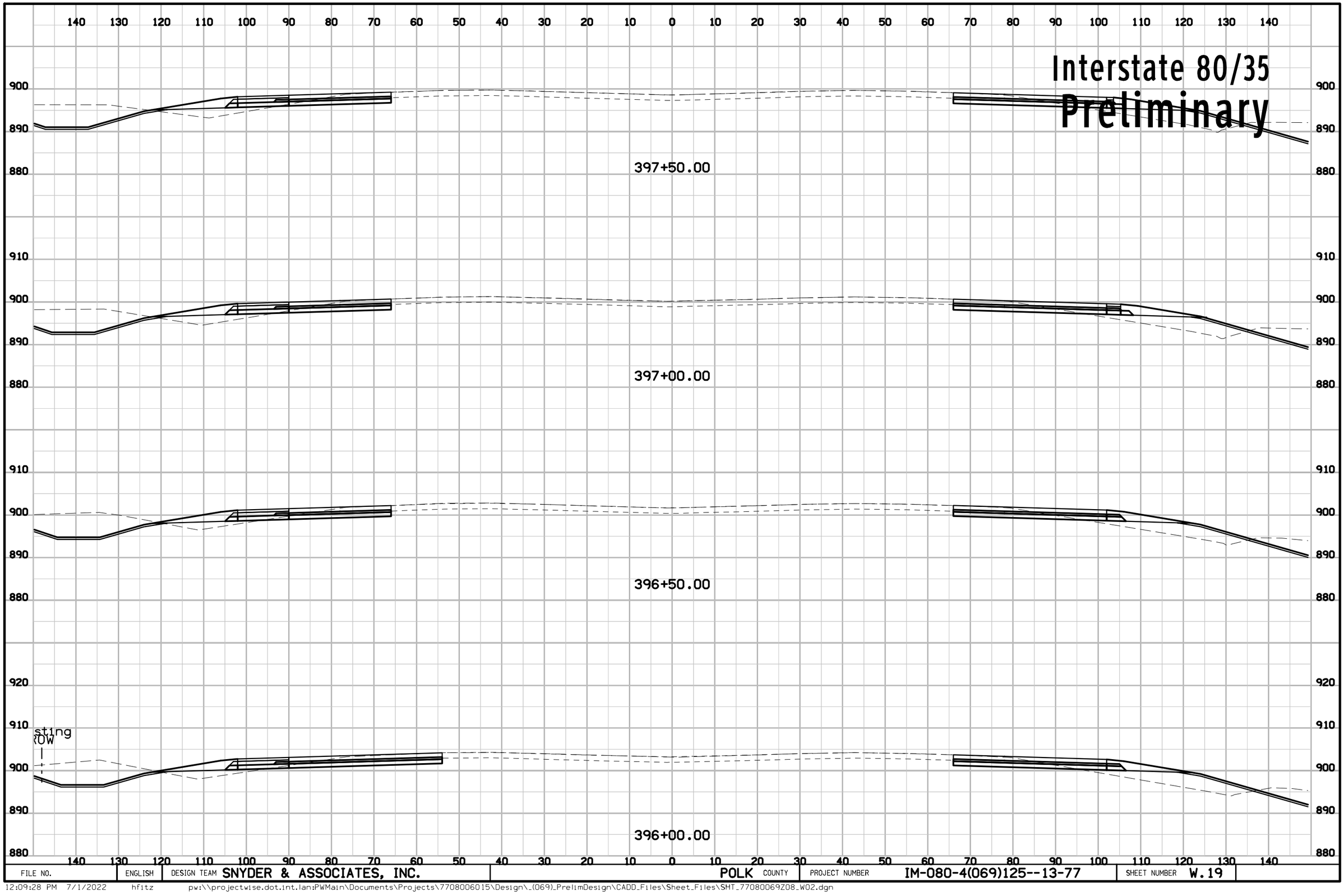
Interstate 80/35

Preliminary



FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER W.19

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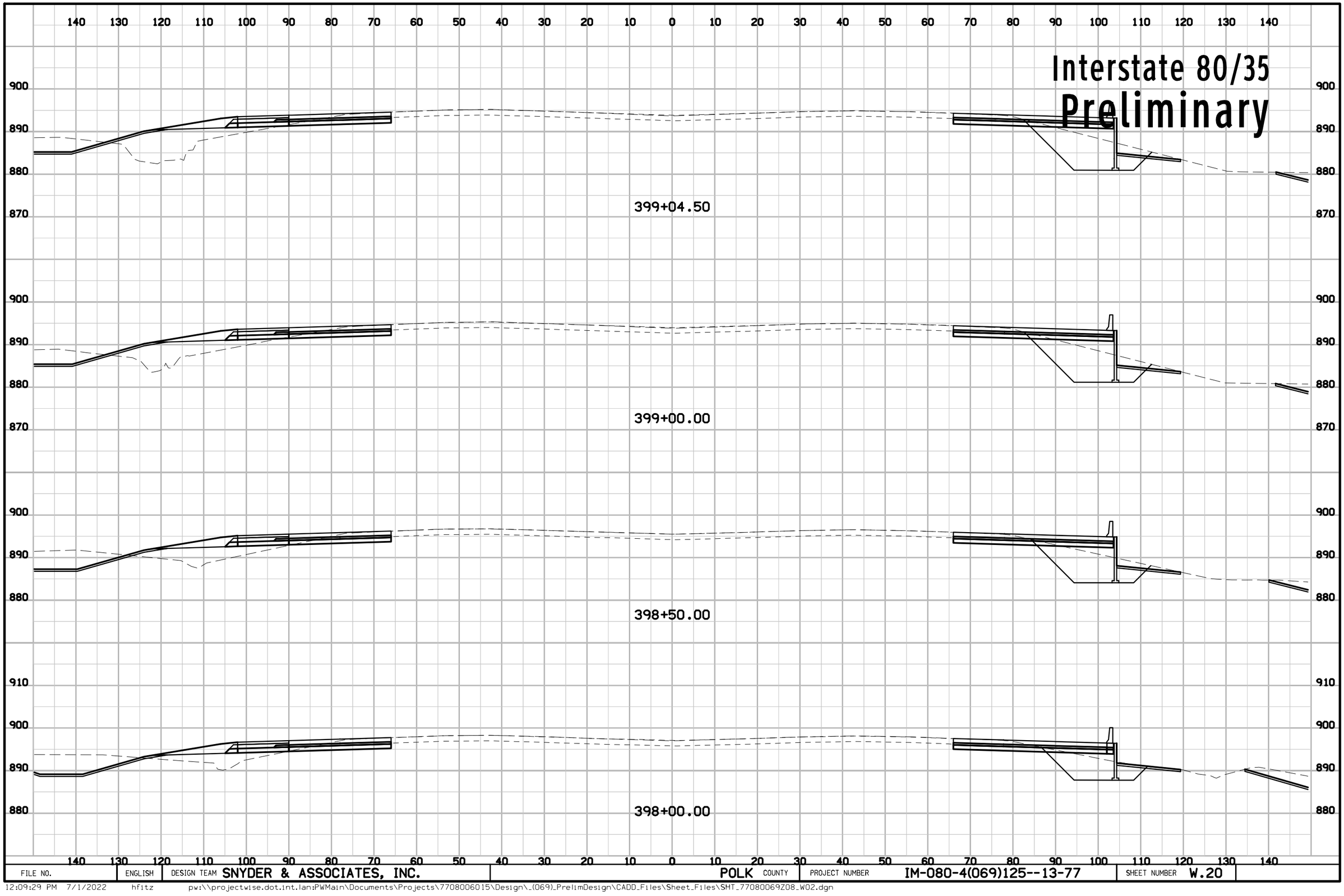
Interstate 80/35
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER W.20

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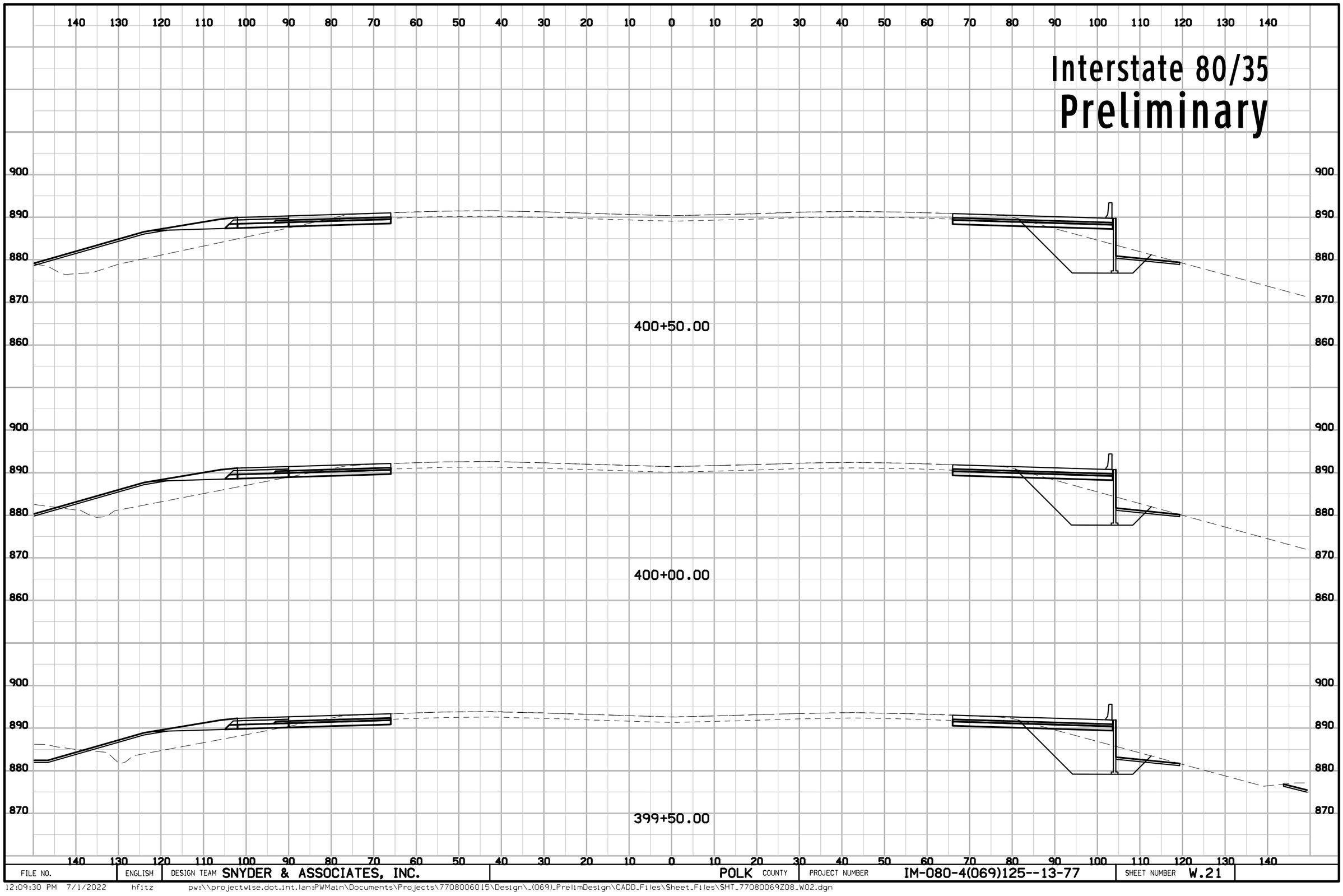
Interstate 80/35
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER W.21

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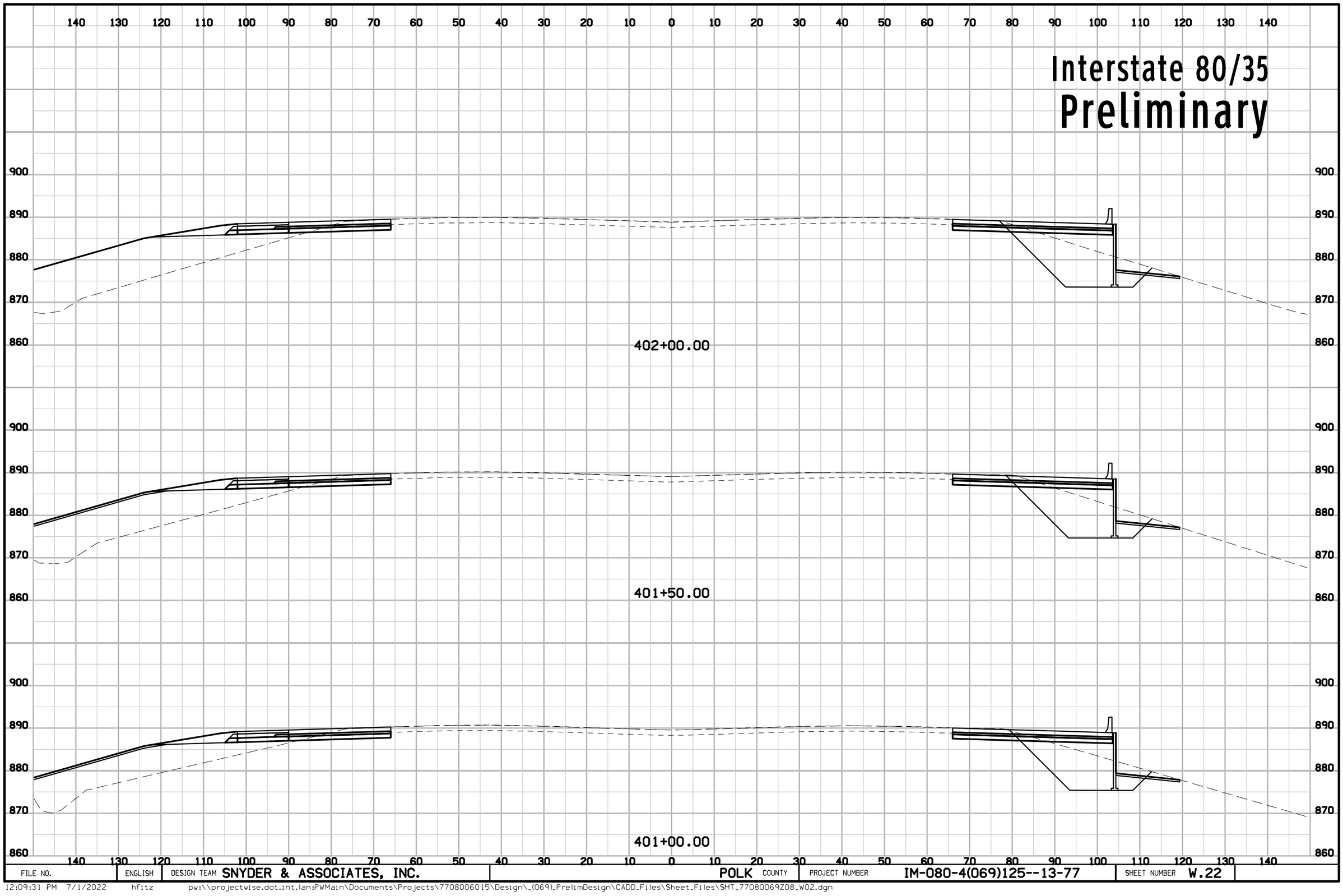
Interstate 80/35
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER W.22

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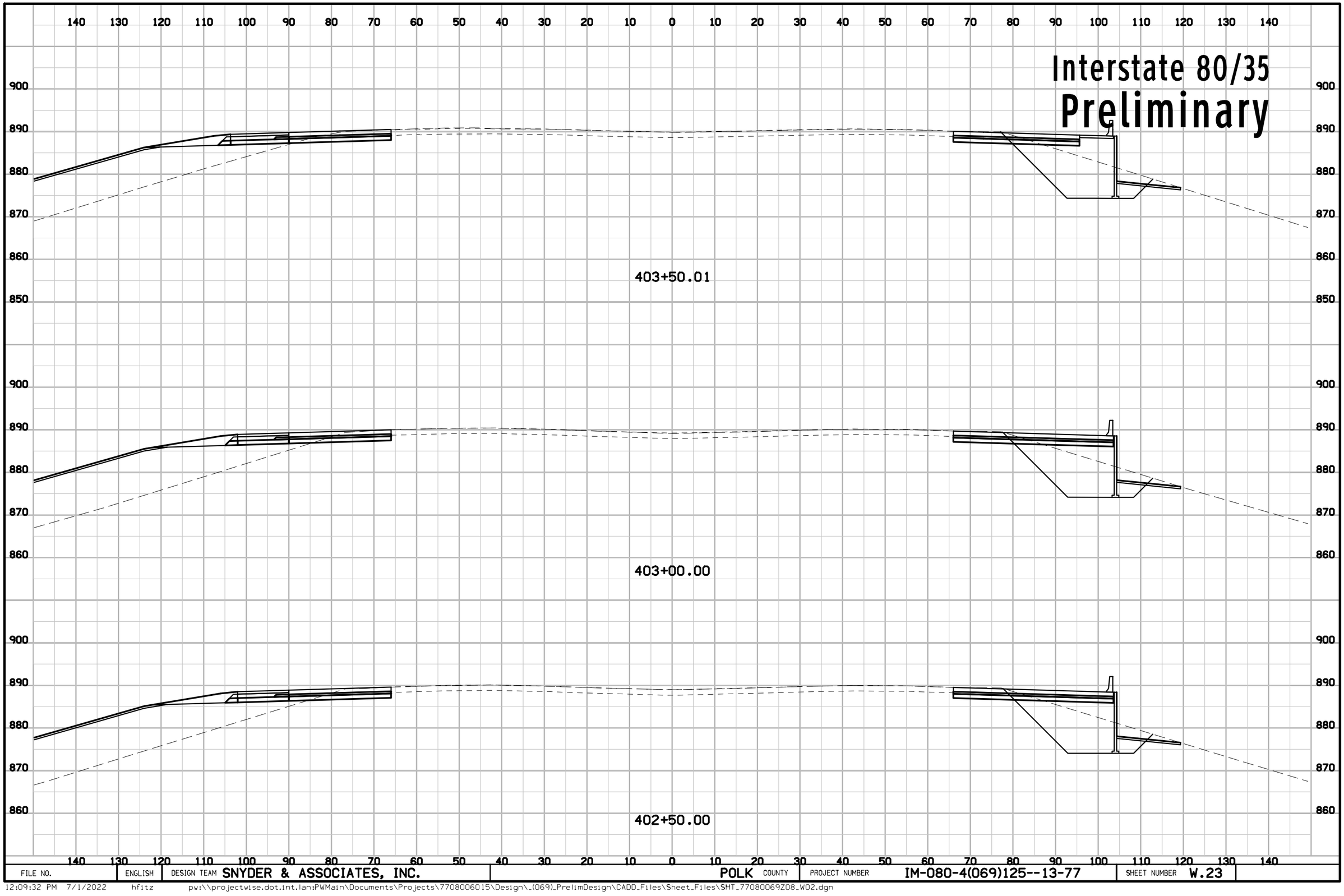
Interstate 80/35
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER W.23

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Interstate 80/35

Preliminary

404+00.00

403+99.49

403+74.49

FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER W.24

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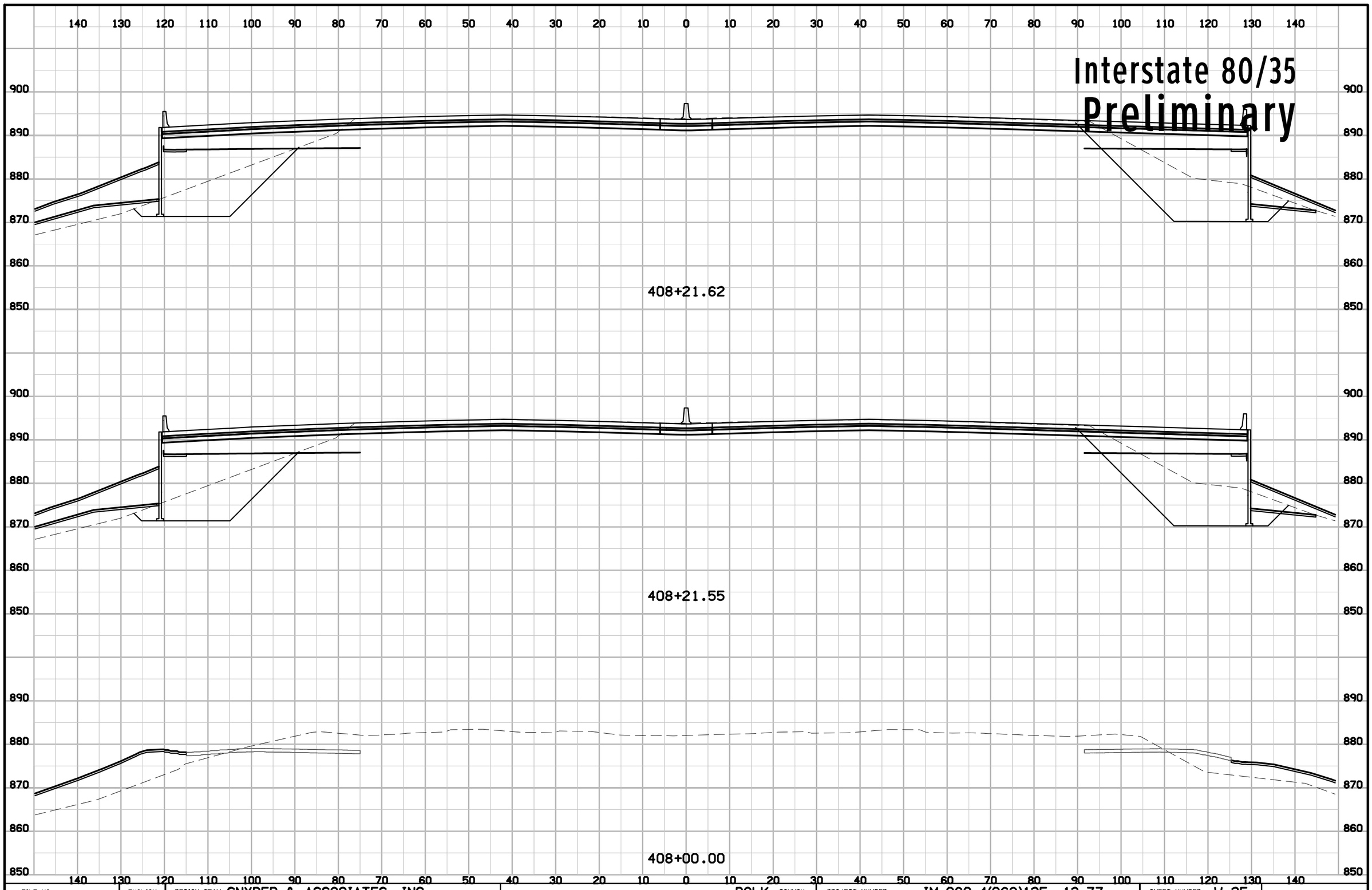
Interstate 80/35

Preliminary



FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER W.25

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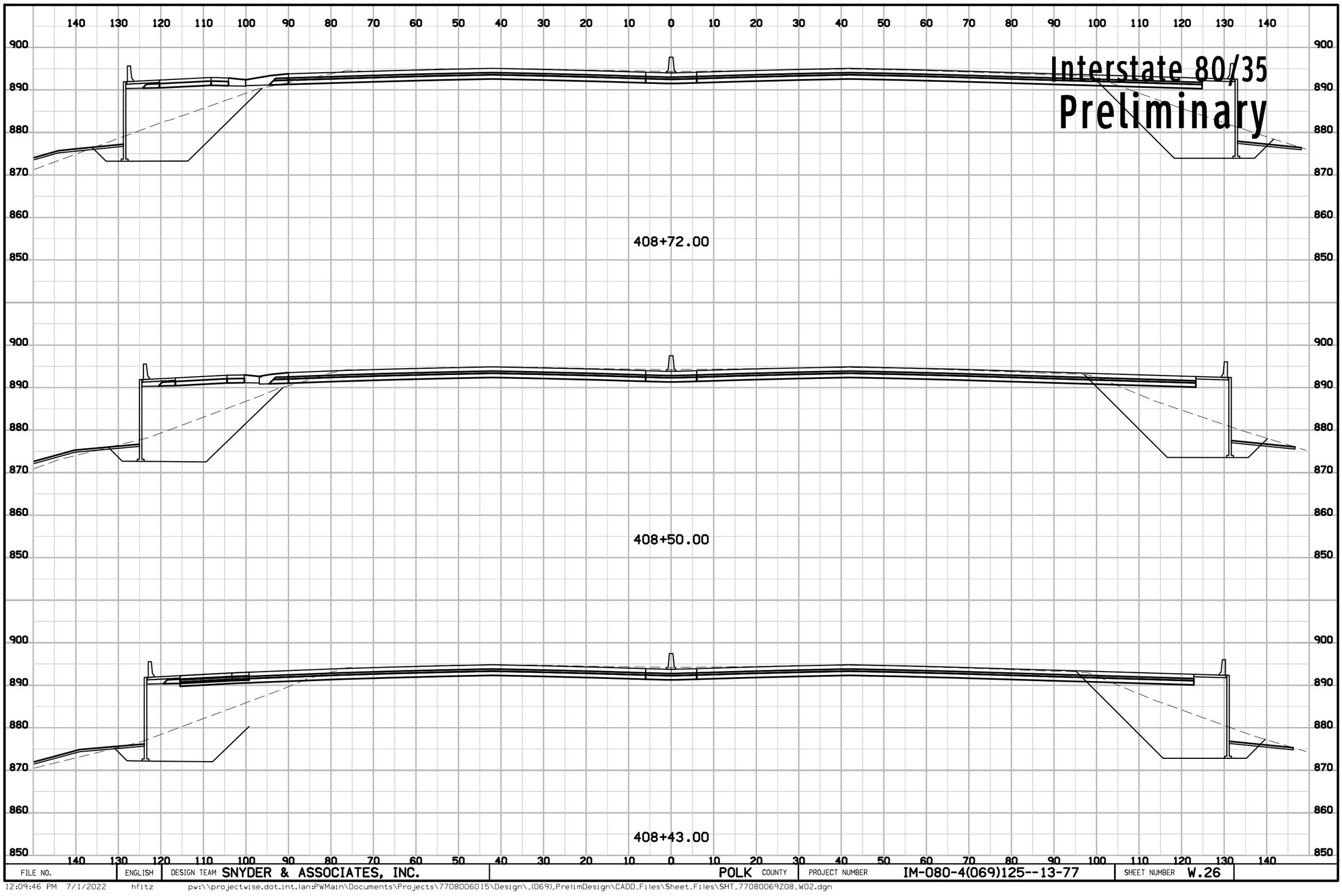
Interstate 80/35

Preliminary



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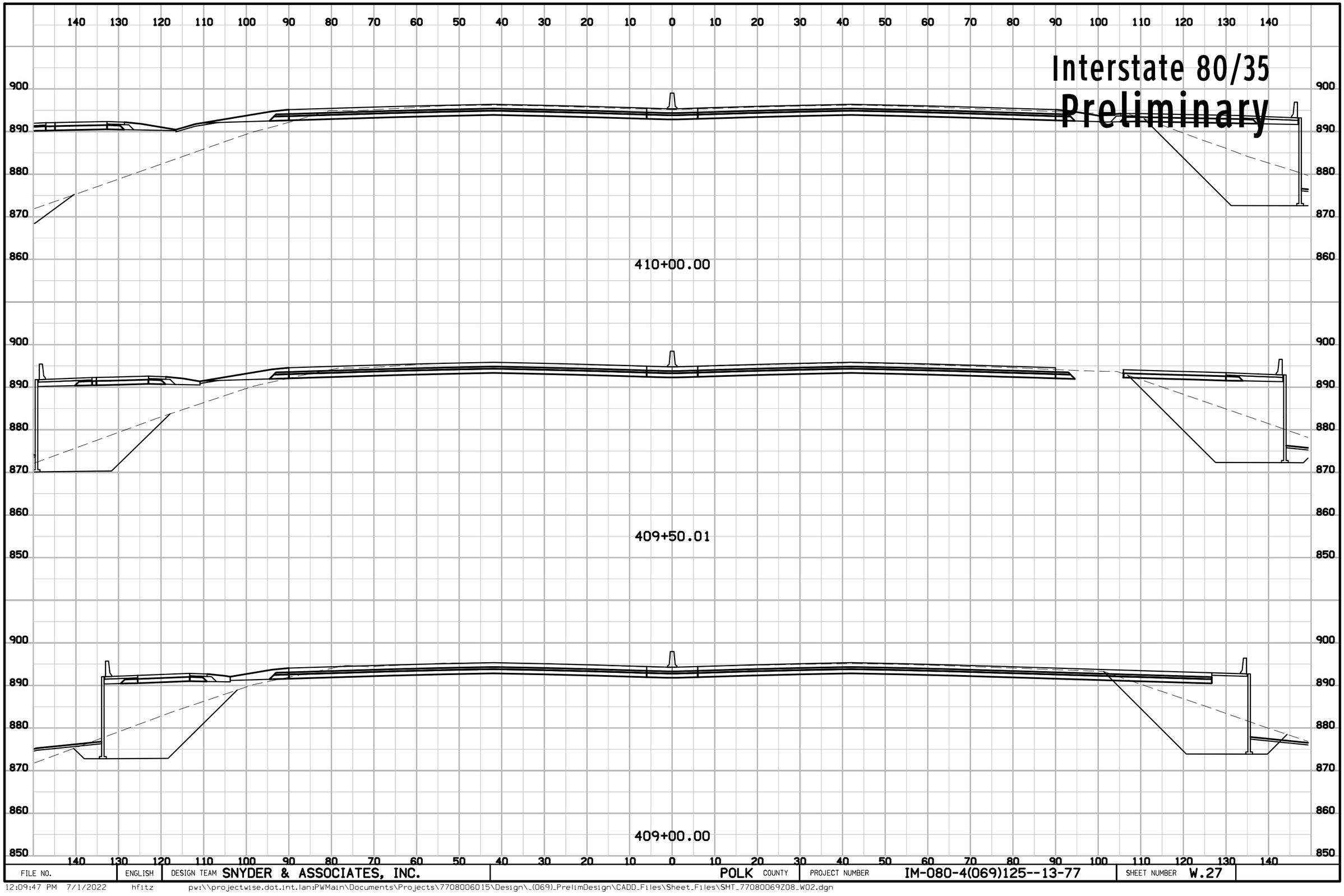
12:09:46 PM 7/1/2022 hfitz pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\7708006015\Design_(069)_PrelimDesign\CADD_Files\Sheet_Files\SHT_7708006908_W02.dgn

Interstate 80/35

Preliminary

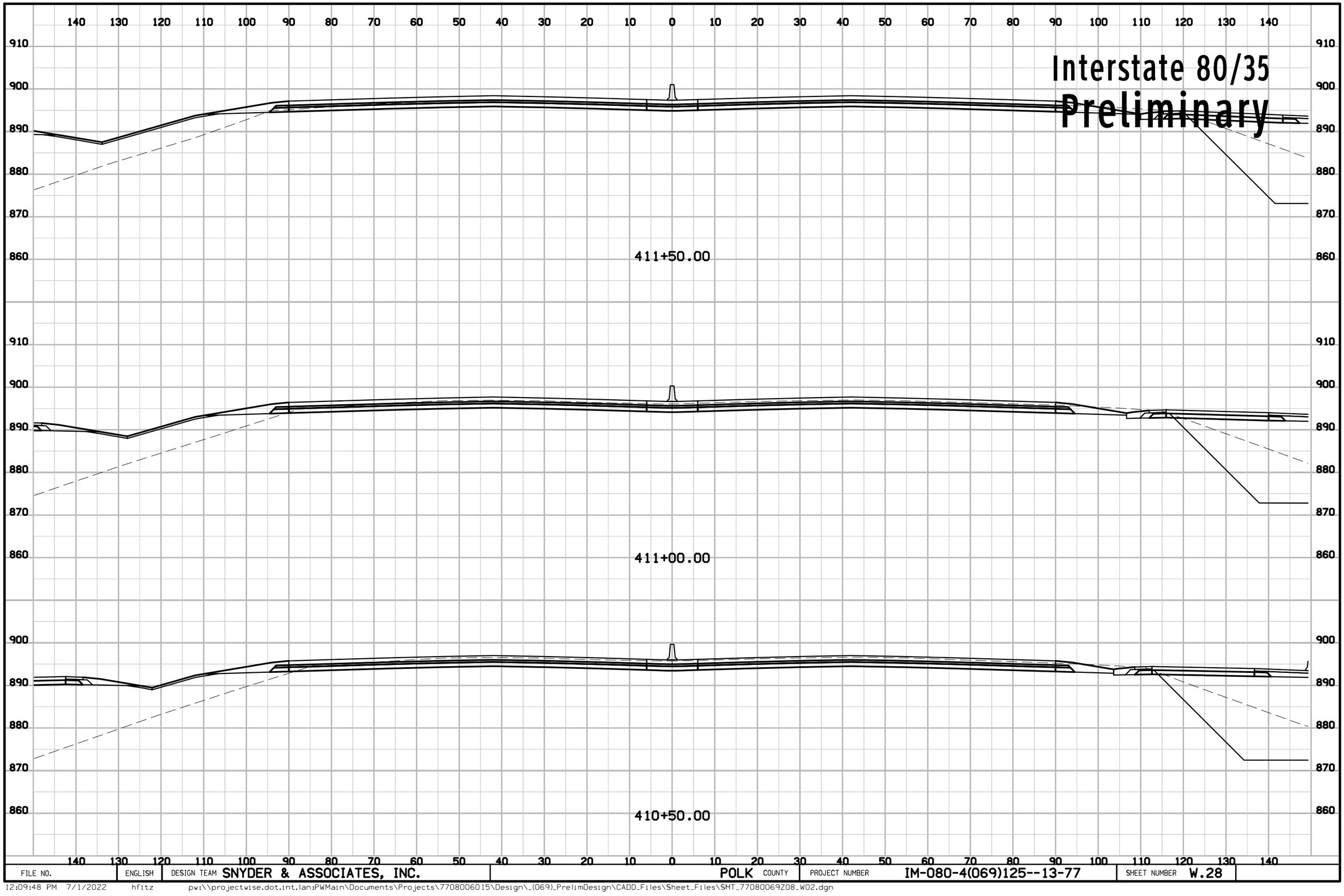


FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER W.27

12:09:47 PM 7/1/2022 hfitz pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\7708006015\Design_(069)_PrelimDesign\CADD_Files\Sheet_Files\SHT_77080069Z08_W02.dgn

Interstate 80/35

Preliminary

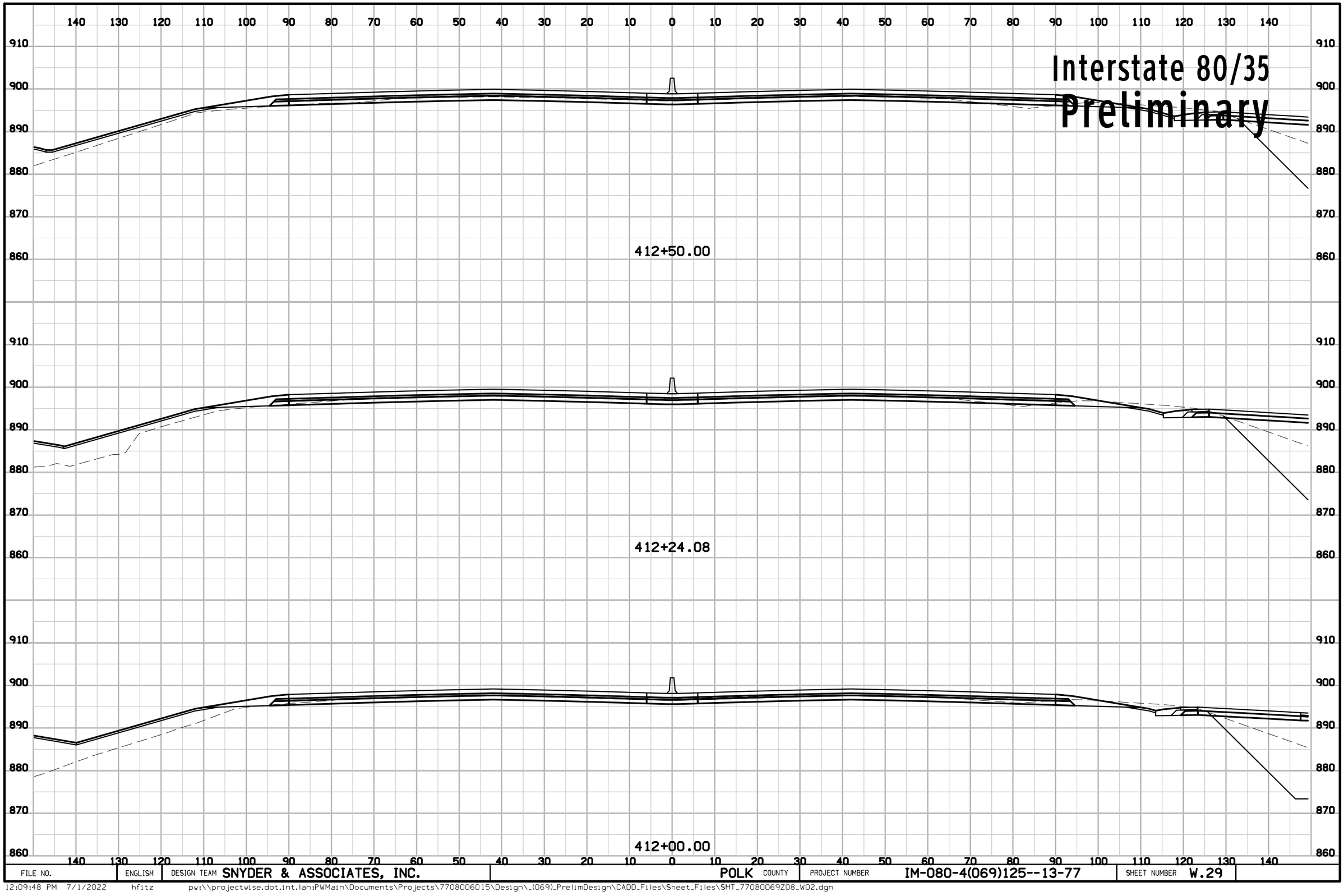


FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER W.28

12:09:48 PM 7/1/2022 hfitz pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\7708006015\Design_(069)_PrelimDesign\CADD_Files\Sheet_Files\SHT_77080069Z08_W02.dgn

Interstate 80/35

Preliminary



FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER W.29

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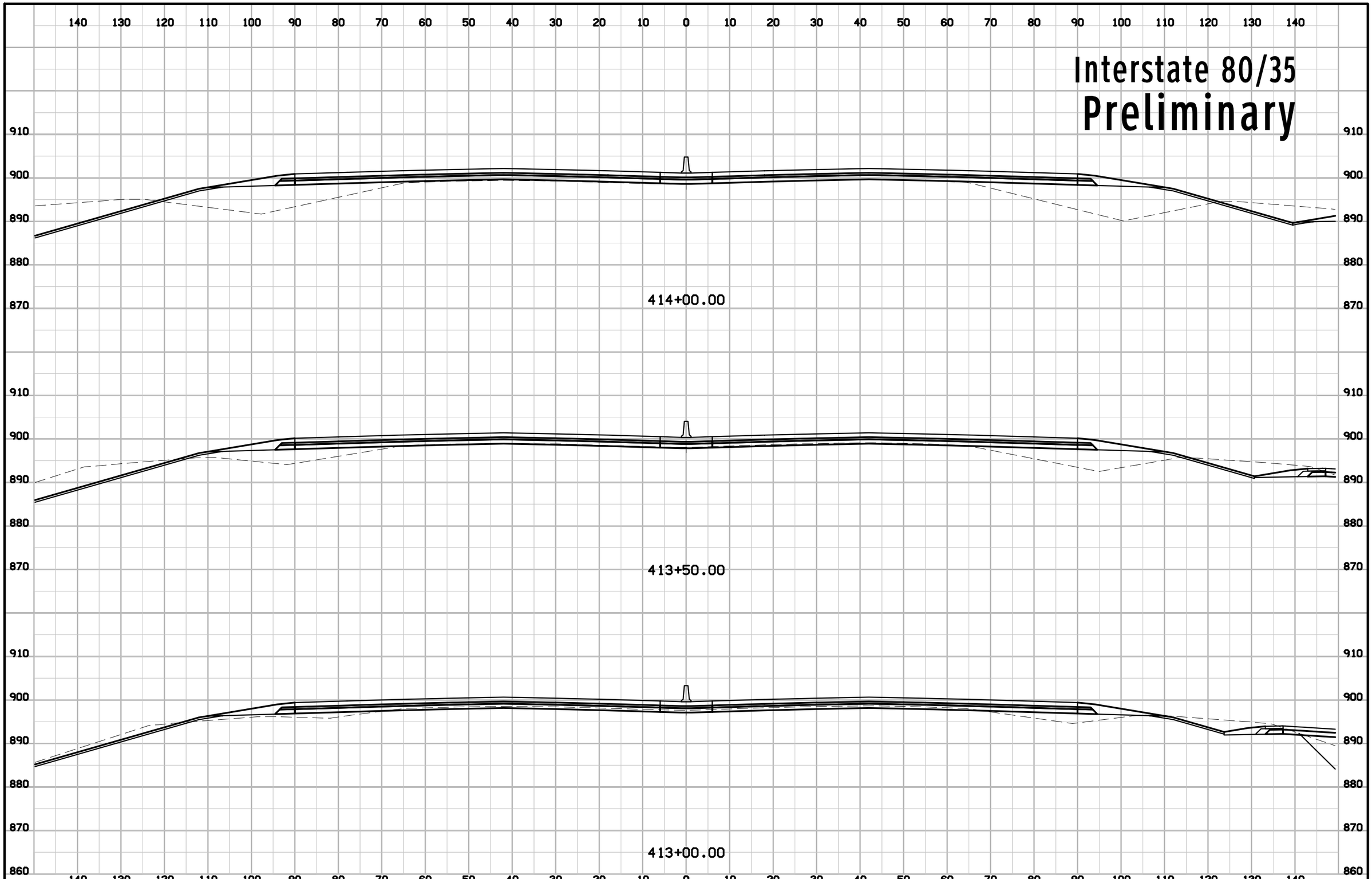
Interstate 80/35
Preliminary



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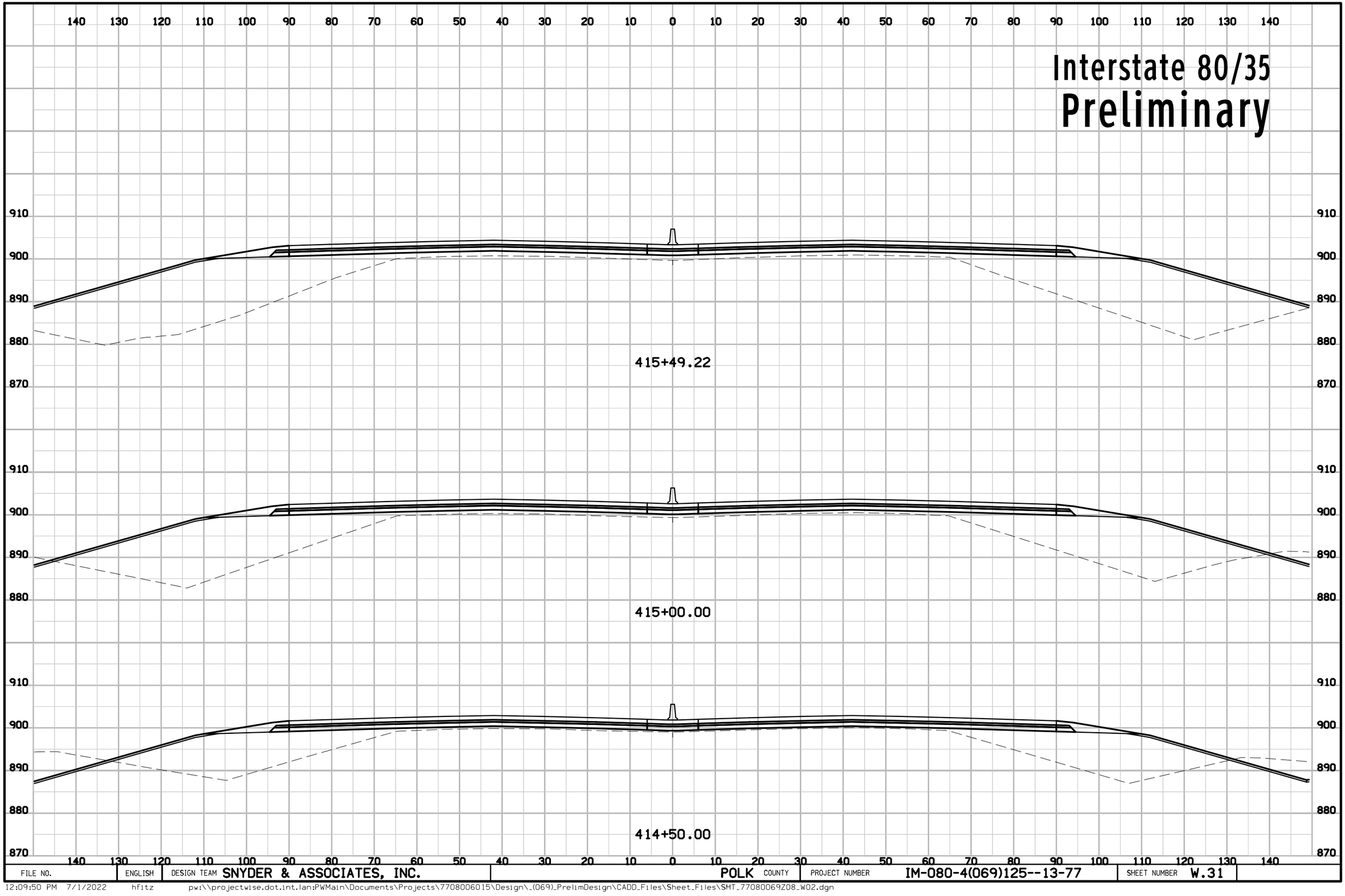
Interstate 80/35
Preliminary



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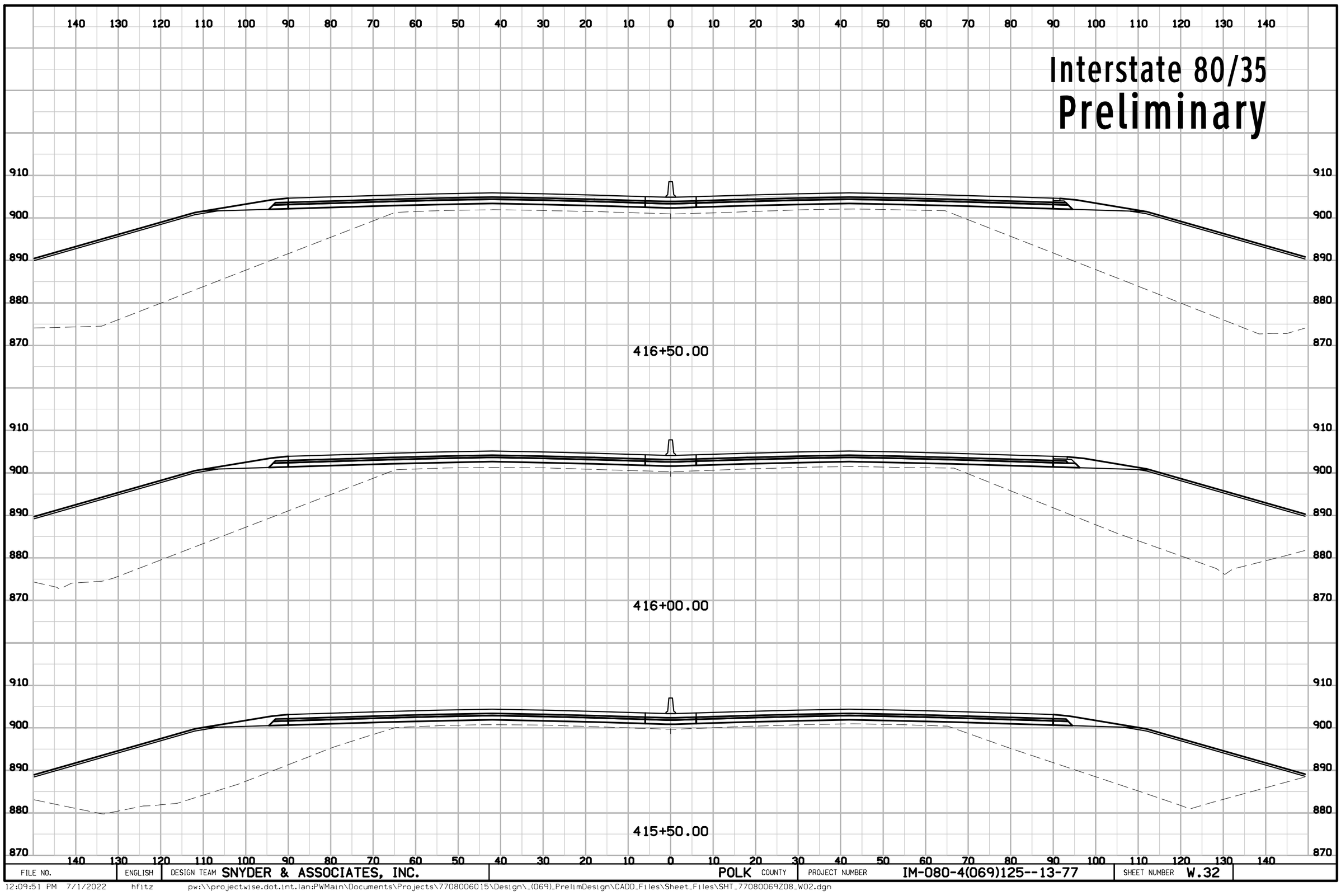
Interstate 80/35
Preliminary



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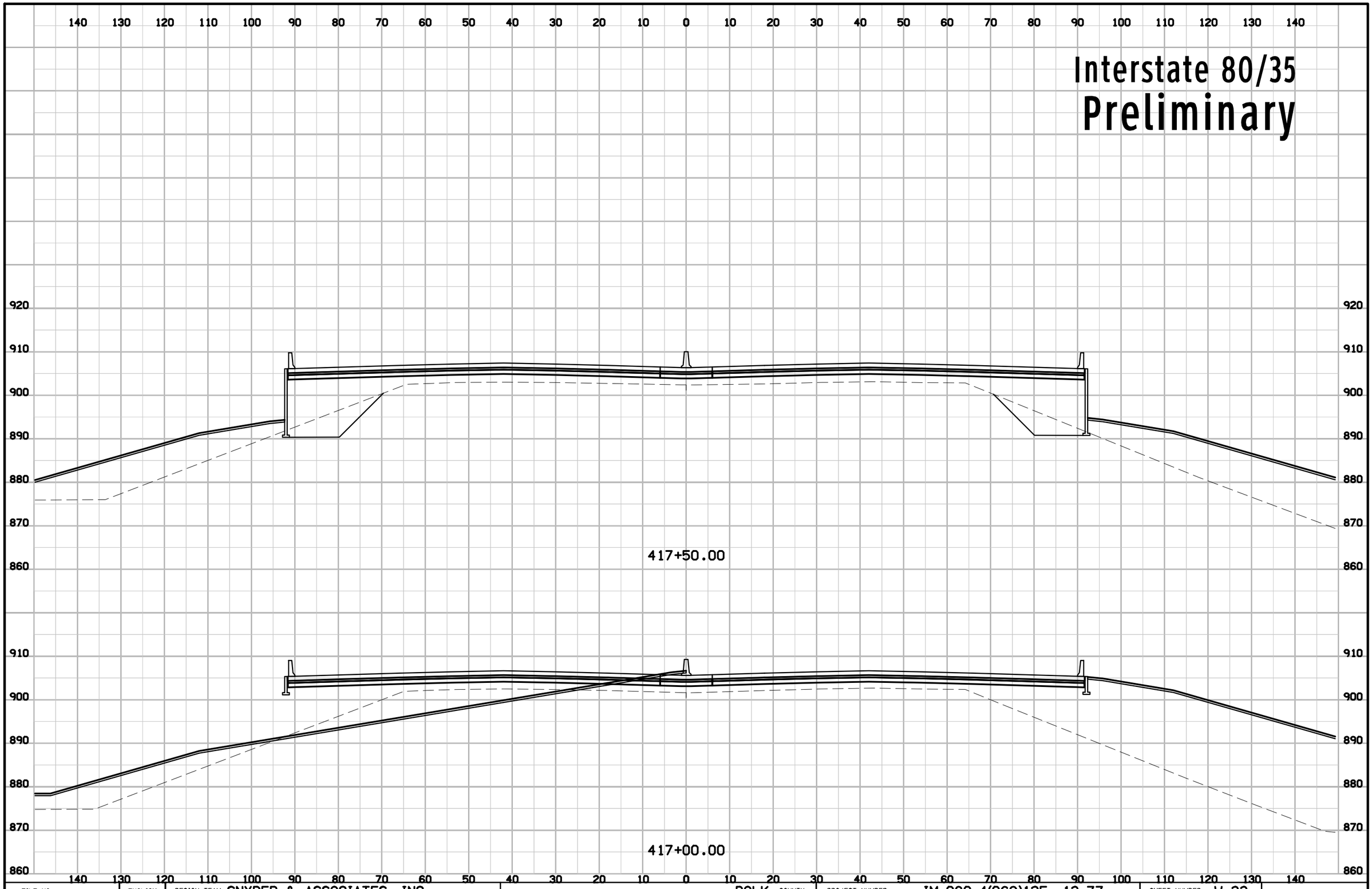
Interstate 80/35
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER W.33

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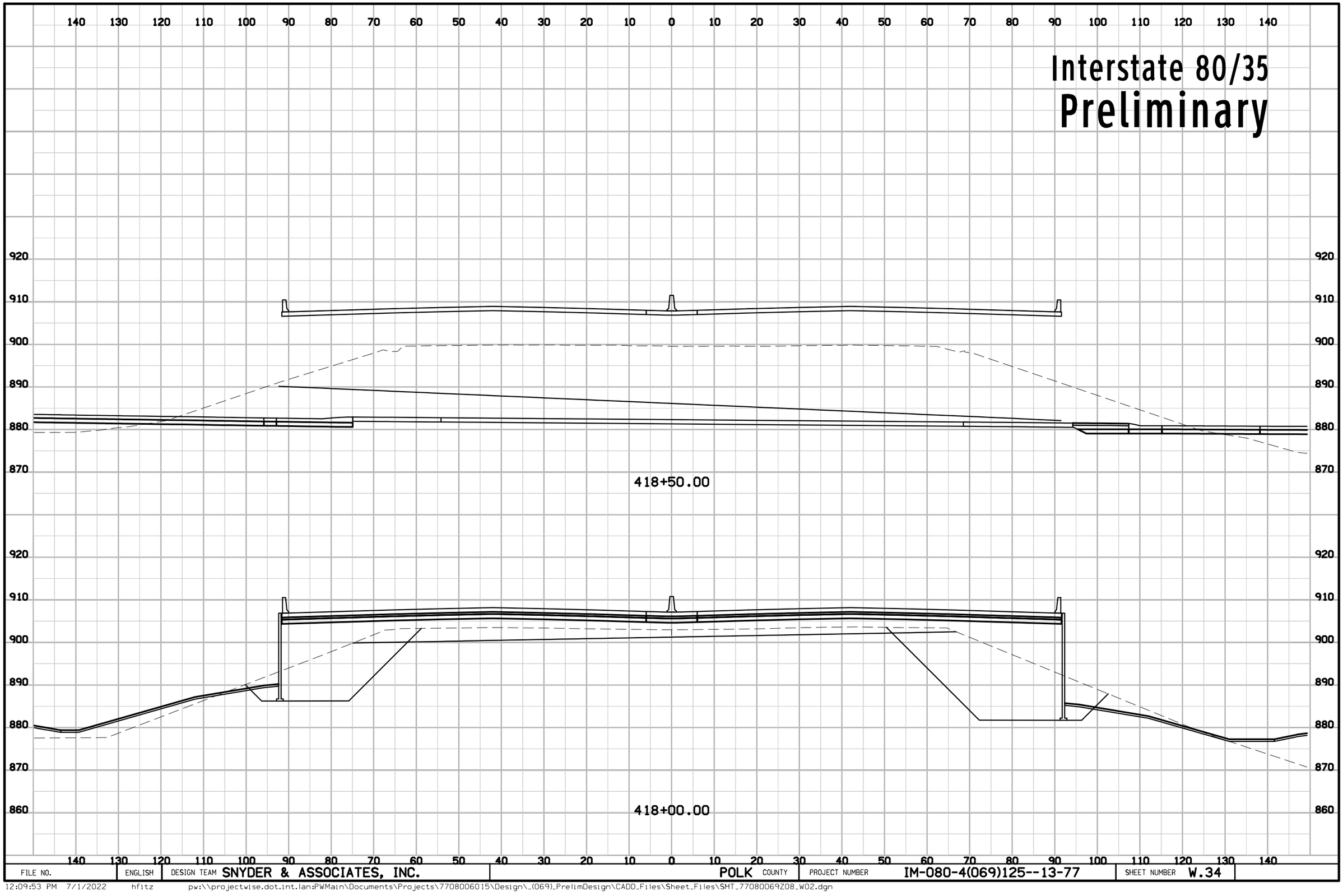
Interstate 80/35
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER W.34

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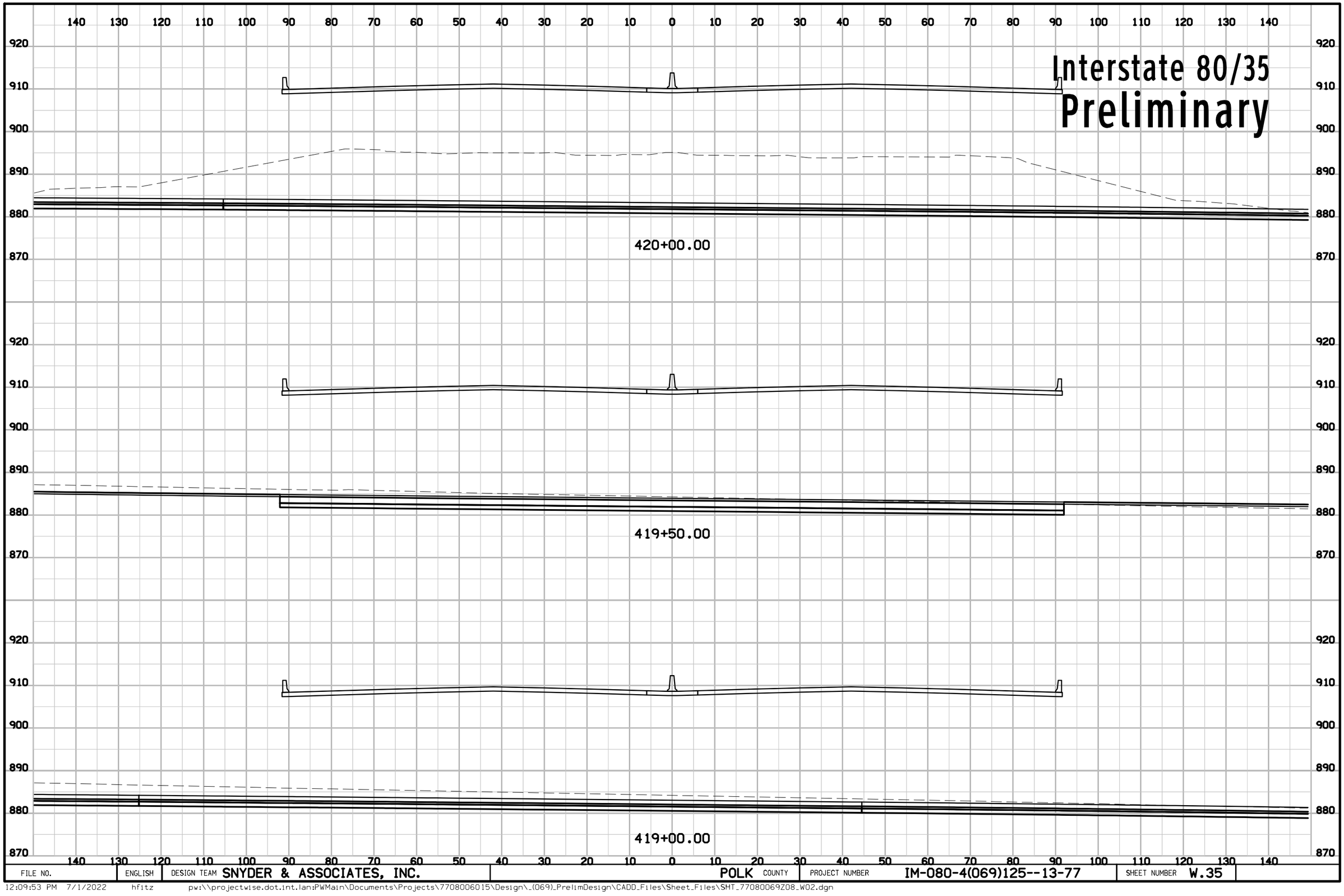
Interstate 80/35
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER W.35

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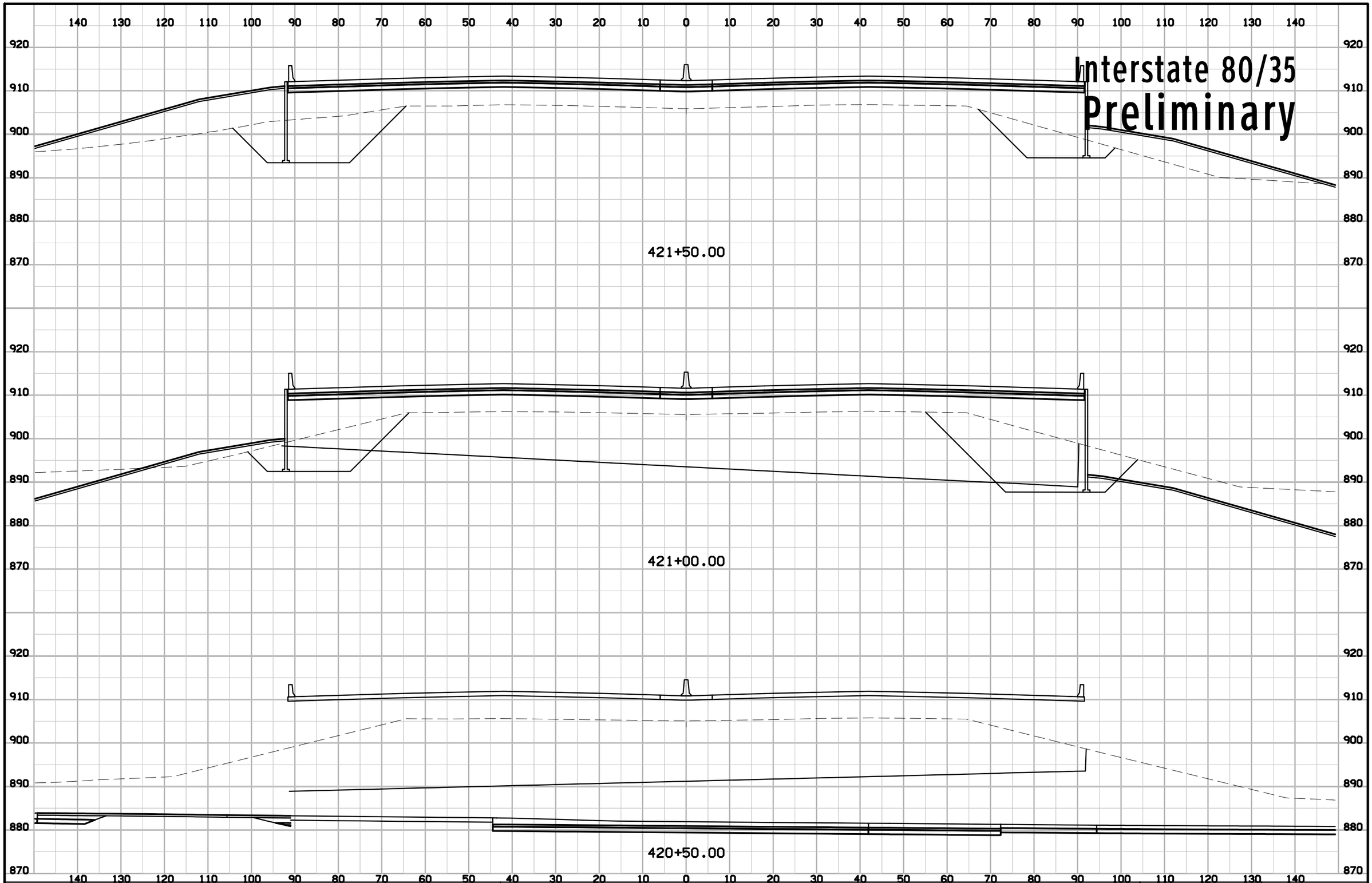
Interstate 80/35
Preliminary



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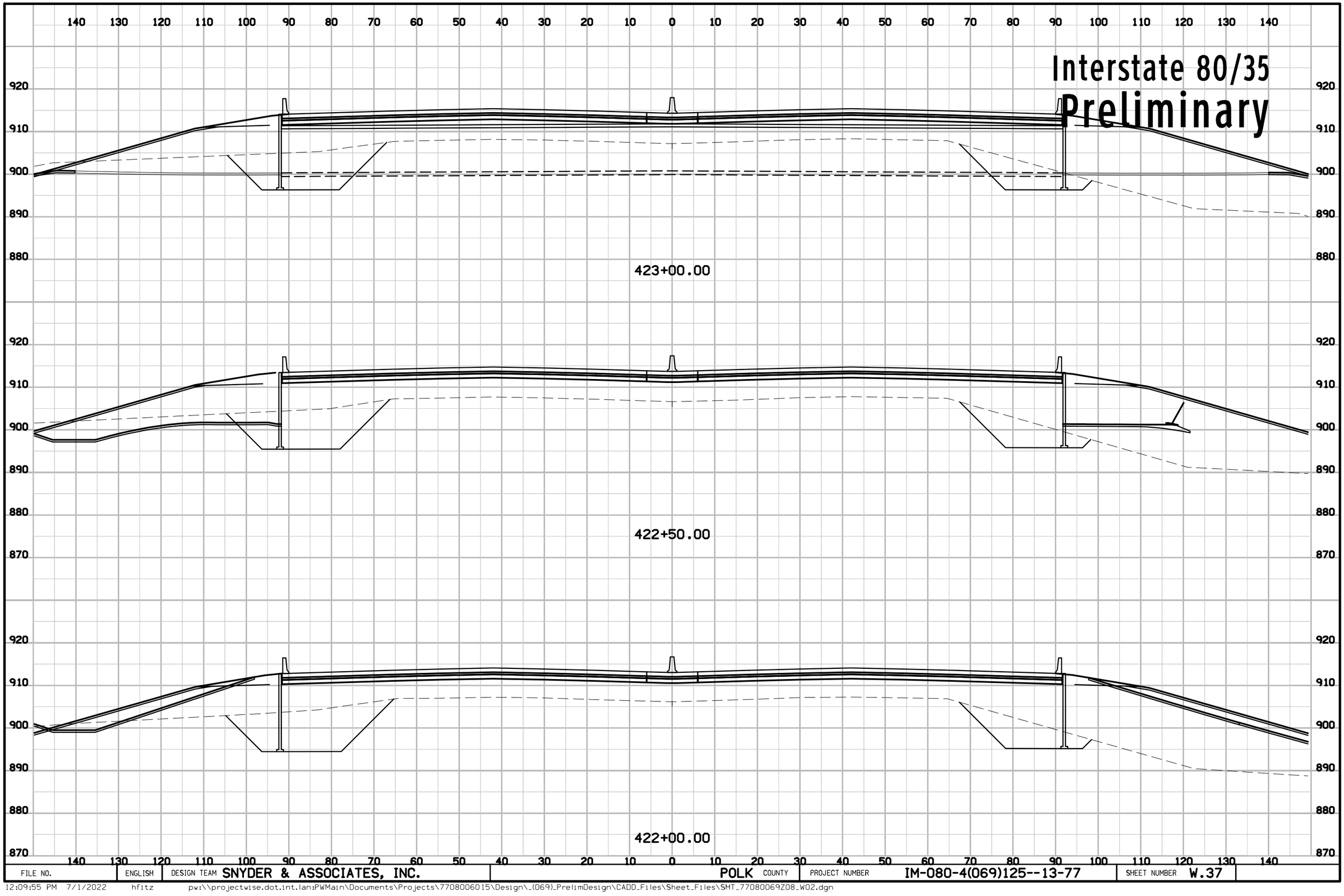
Interstate 80/35
Preliminary



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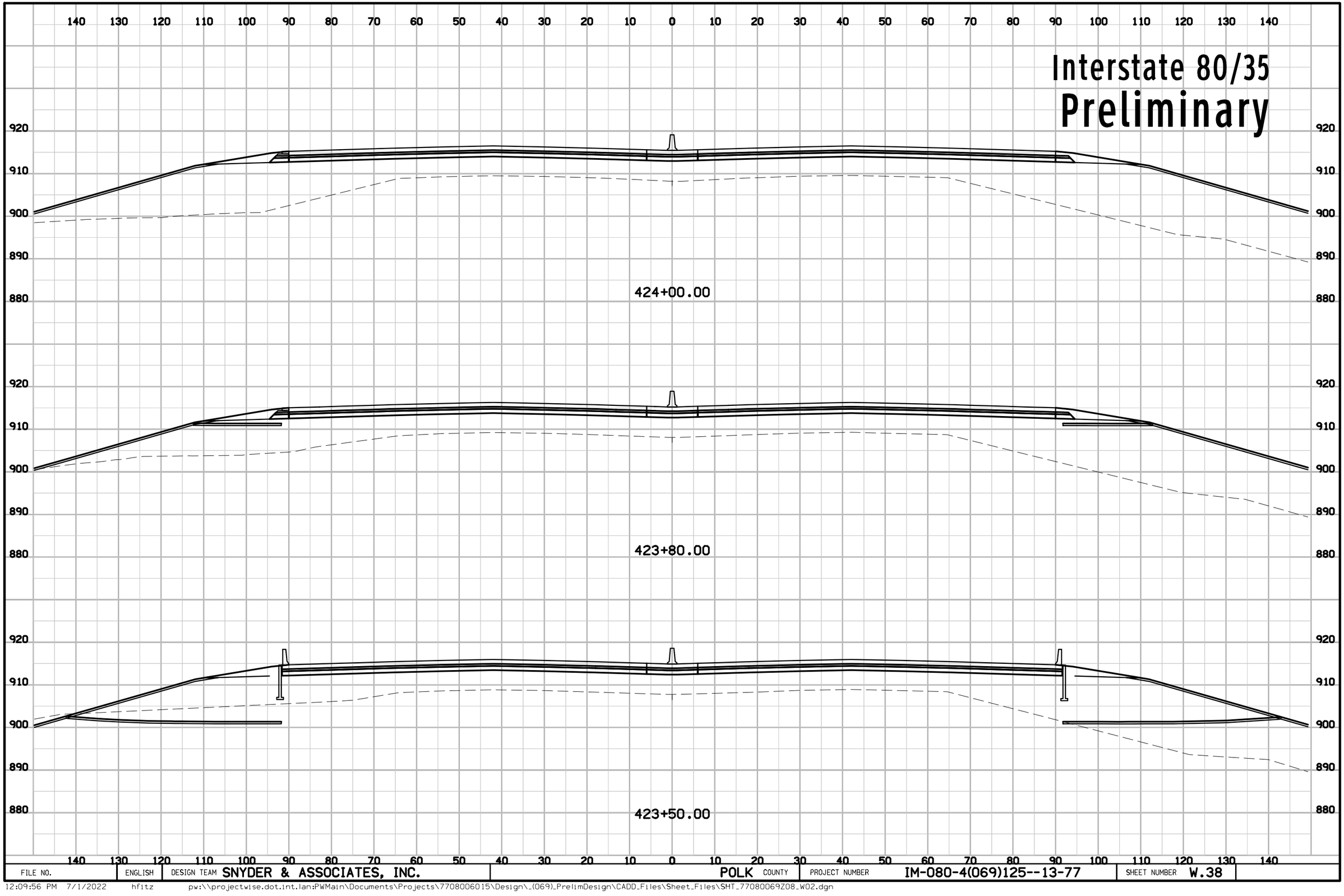
Interstate 80/35
Preliminary



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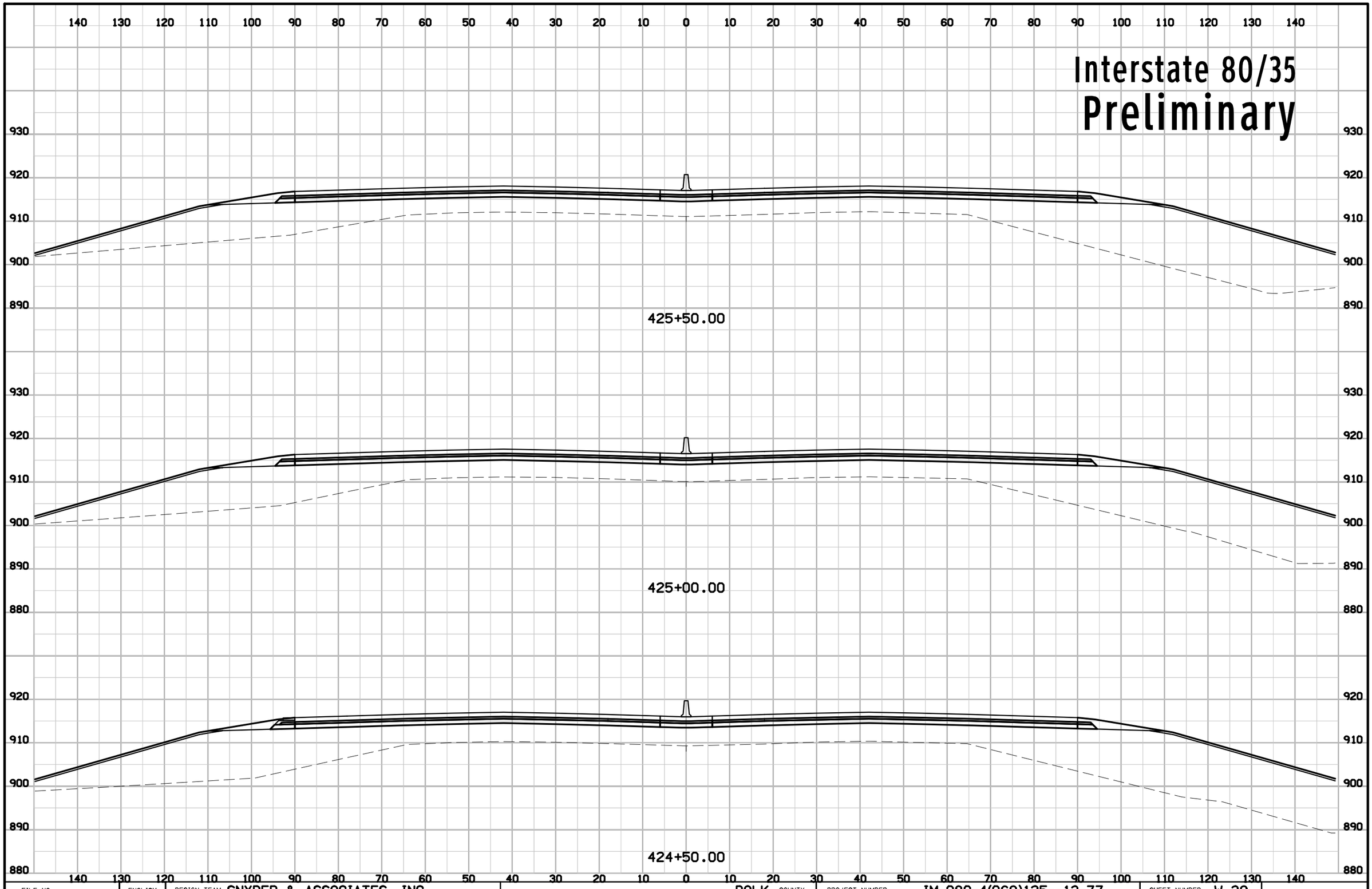
Interstate 80/35
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER W.39

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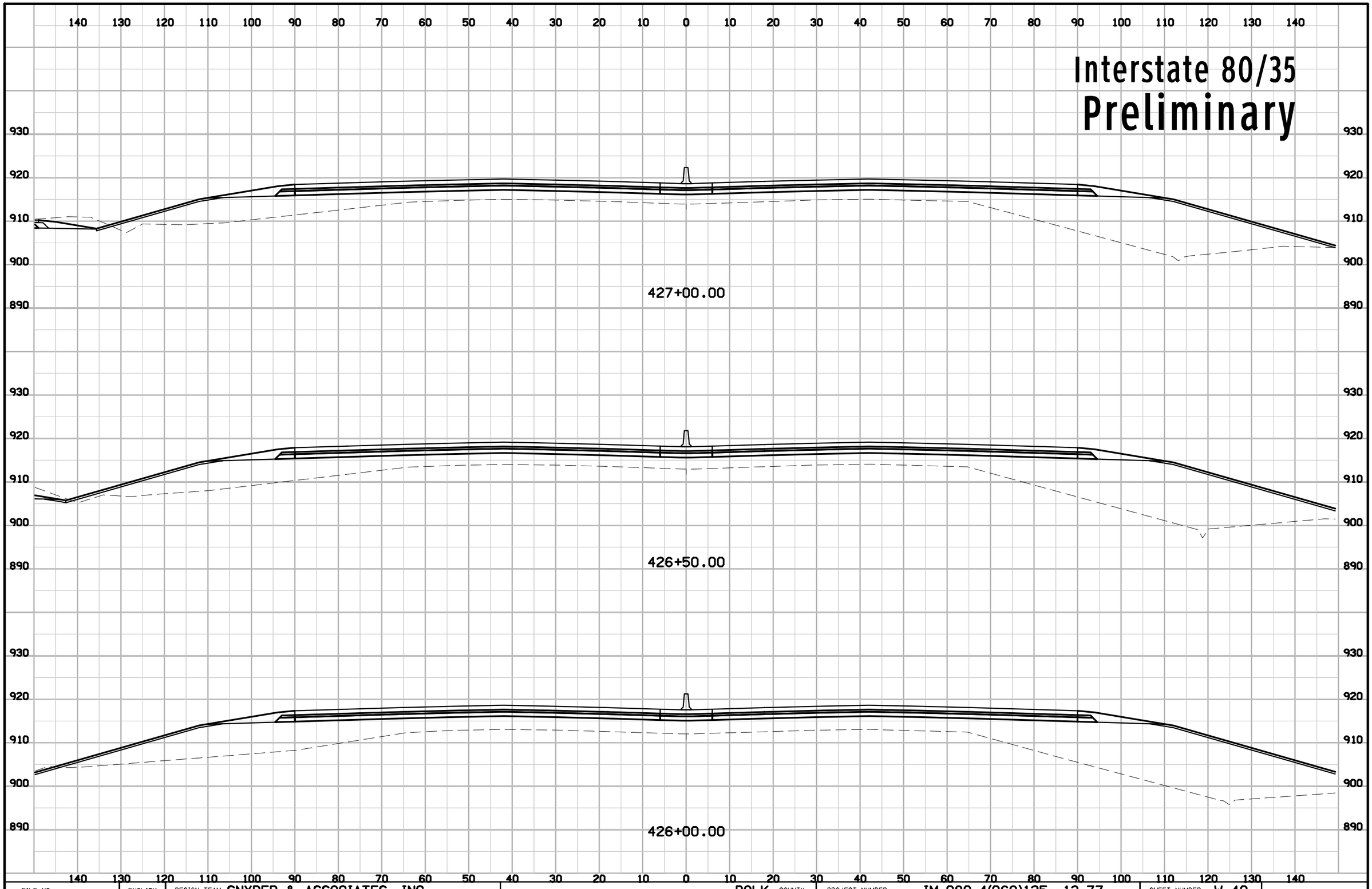
Interstate 80/35
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER W.40

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Interstate 80/35

Preliminary

428+50.00

428+00.00

427+99.24

427+50.00

FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER W.41

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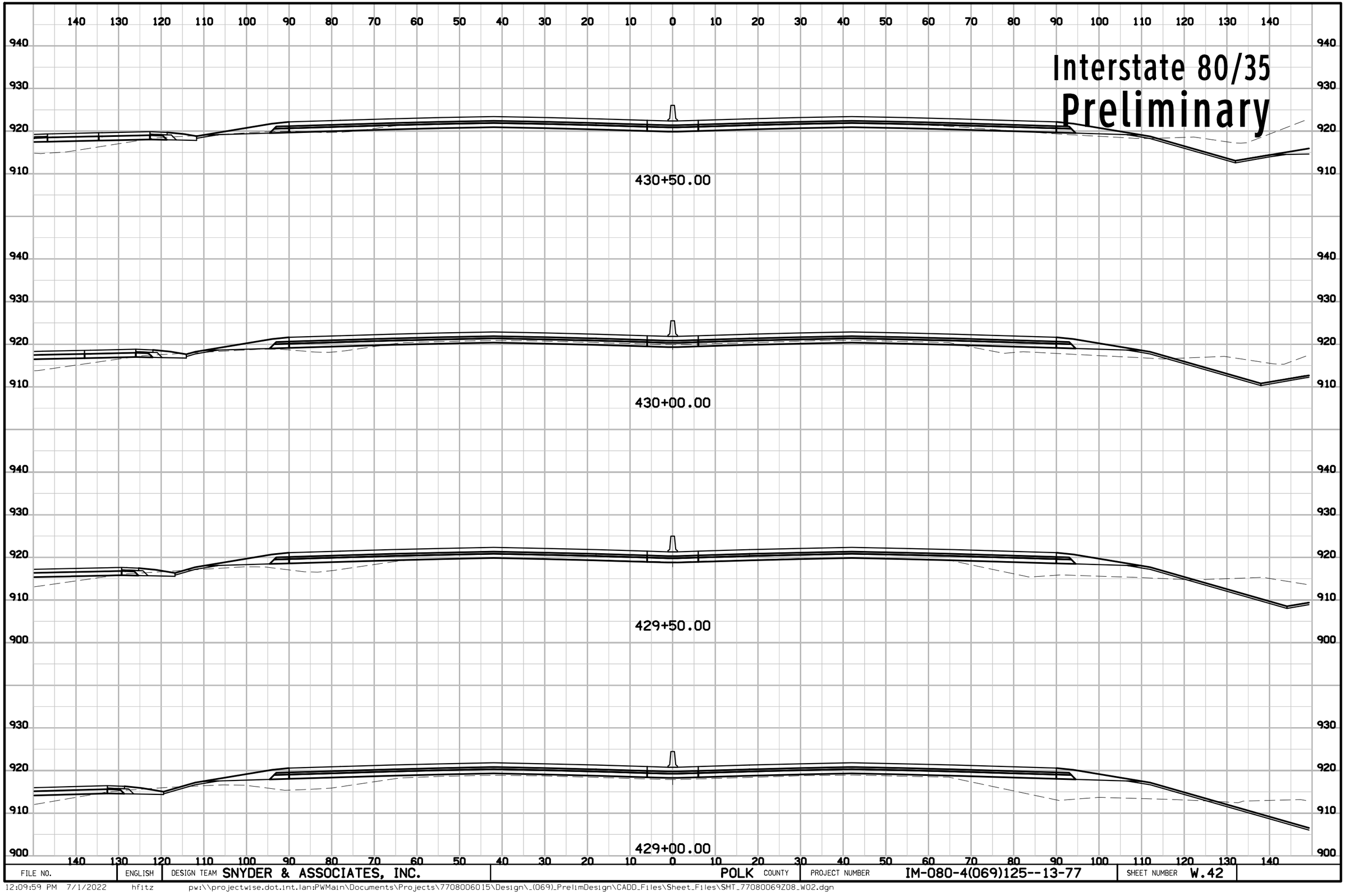
Interstate 80/35
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER W.42

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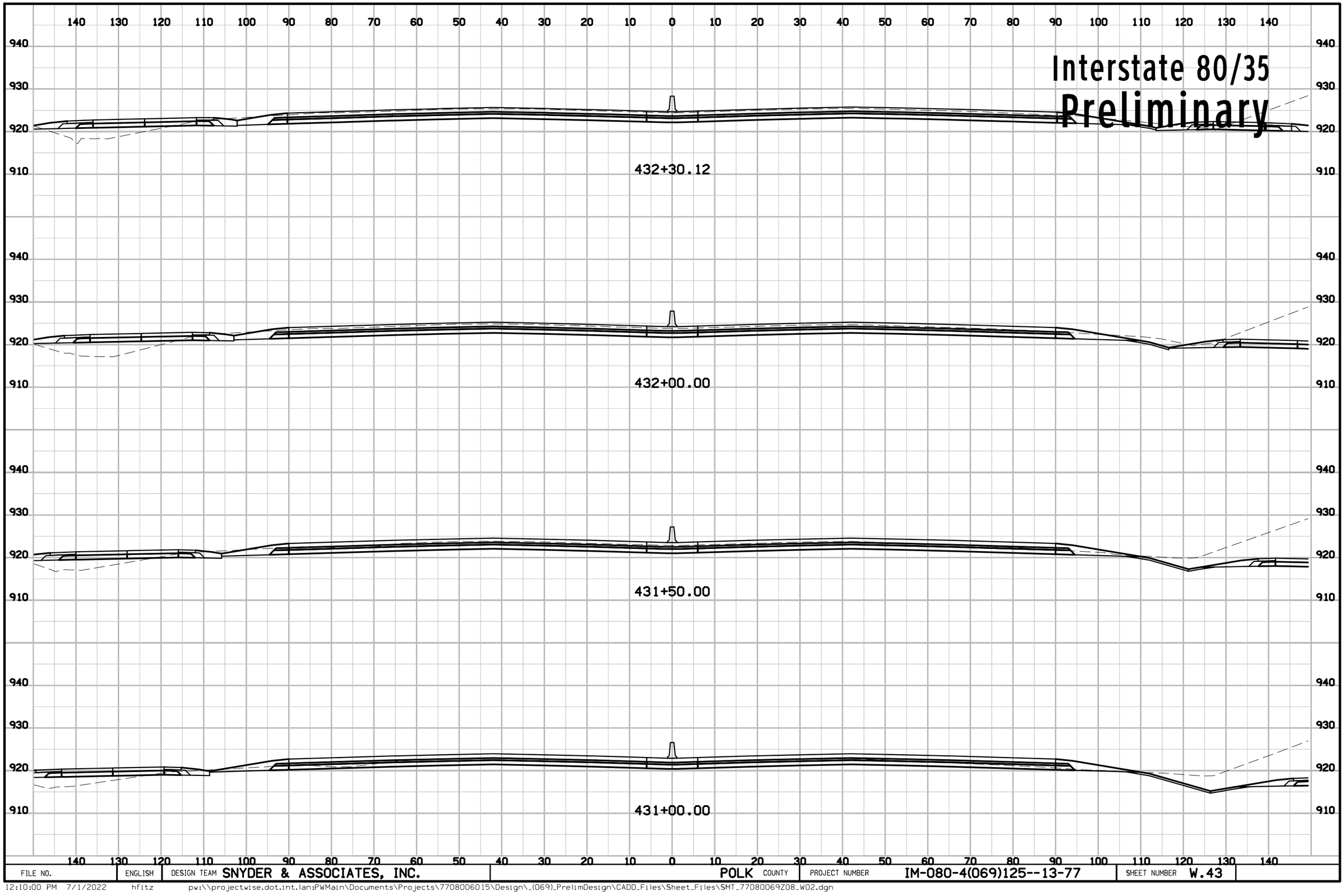
Interstate 80/35

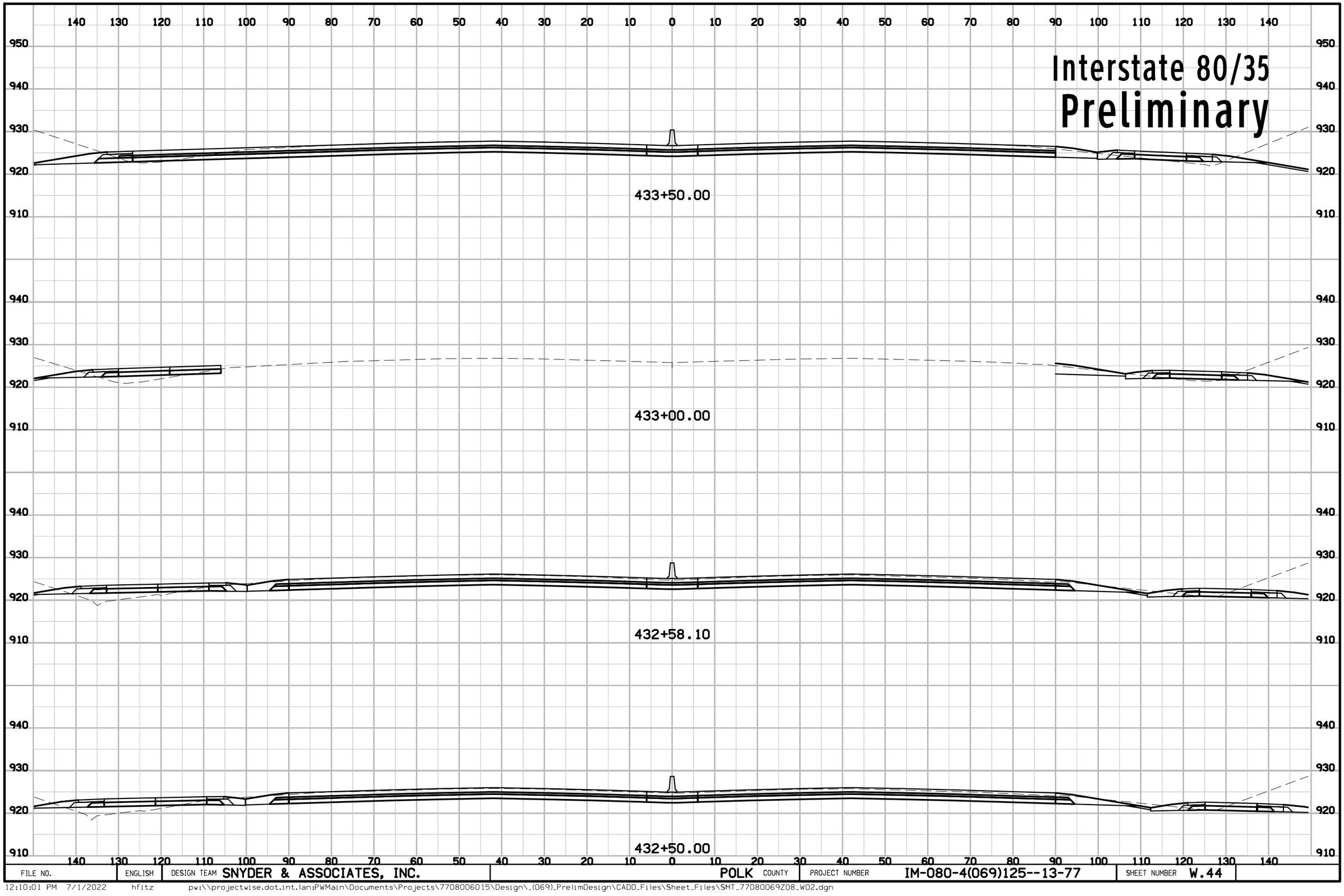
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER W.43

12:10:00 PM 7/1/2022 hfitz pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\7708006015\Design_(069)_PrelimDesign\CADD_Files\Sheet_Files\SHT_7708006928_W02.dgn

Interstate 80/35
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER W.44

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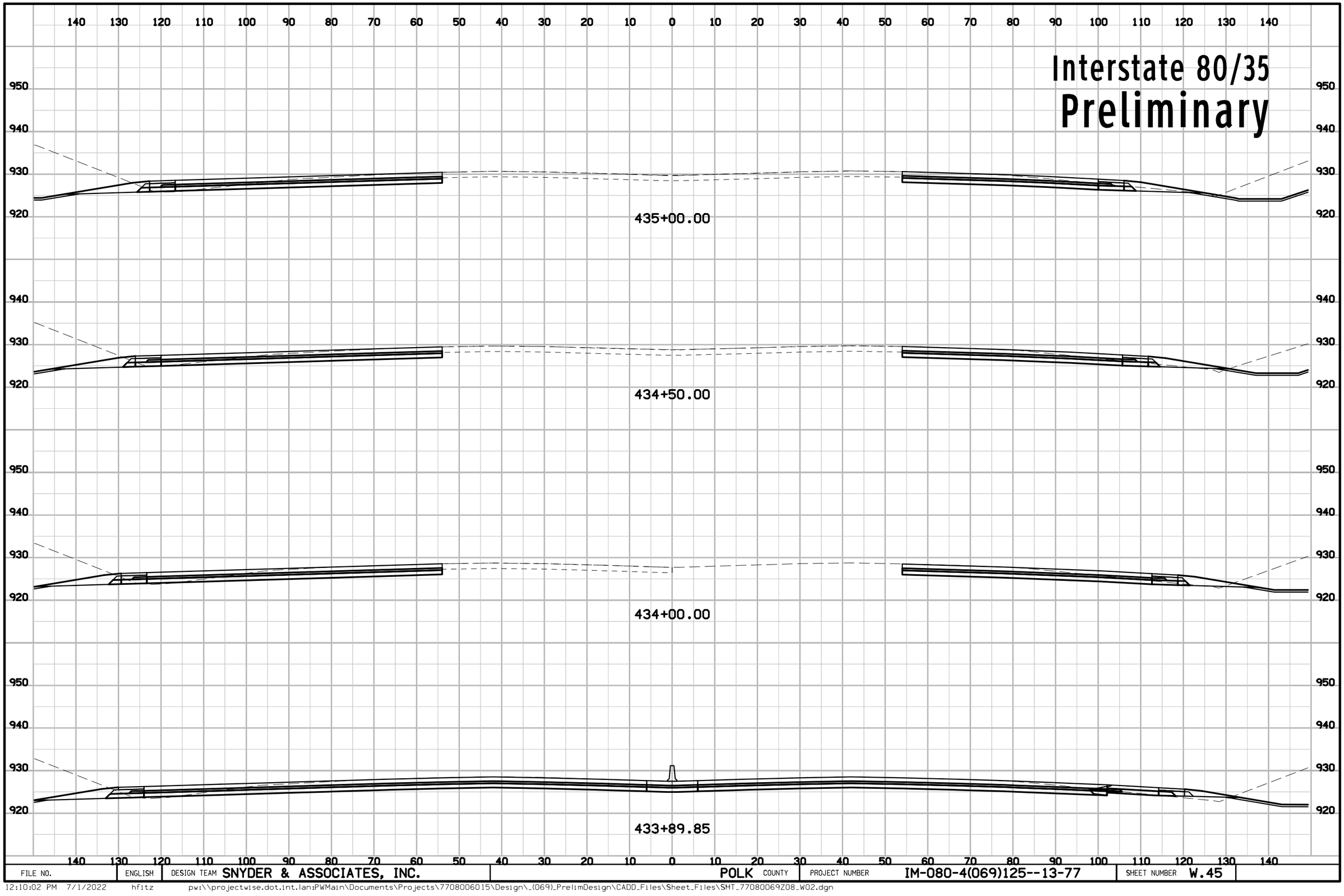
Interstate 80/35
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER W.45

12:10:02 PM 7/1/2022 hfitz pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\7708006015\Design_(069)_PrelimDesign\CADD_Files\Sheet_Files\SHT_7708006908_W02.dgn

Interstate 80/35
Preliminary

140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140

950 940 930 920

436+02.35

436+00.00

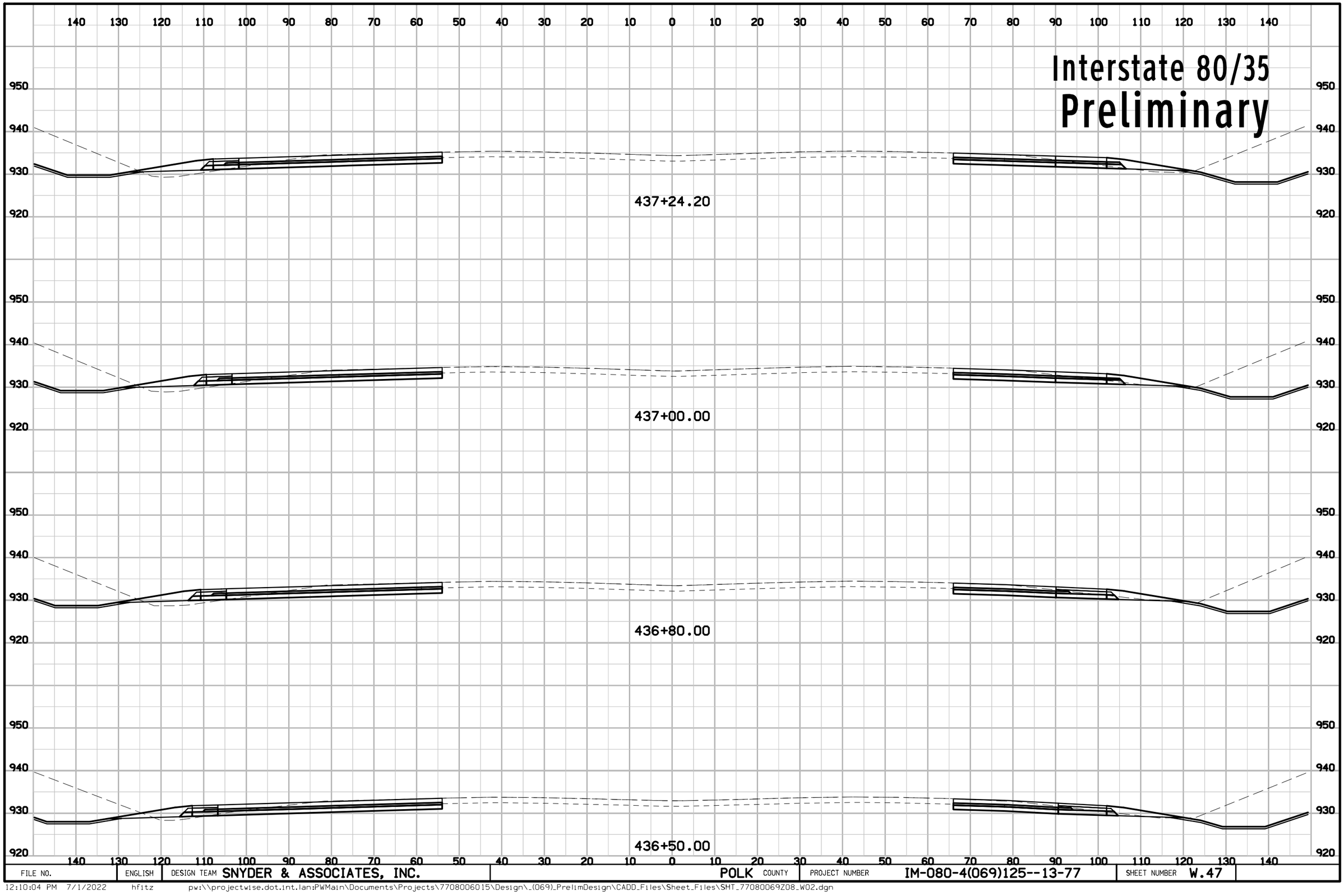
435+58.00

435+50.00

FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER W.46

12:10:03 PM 7/1/2022 hfitz pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\7708006015\Design_(069)_PrelimDesign\CADD_Files\Sheet_Files\SHT_77080069Z08_W02.dgn

Interstate 80/35
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER W.47

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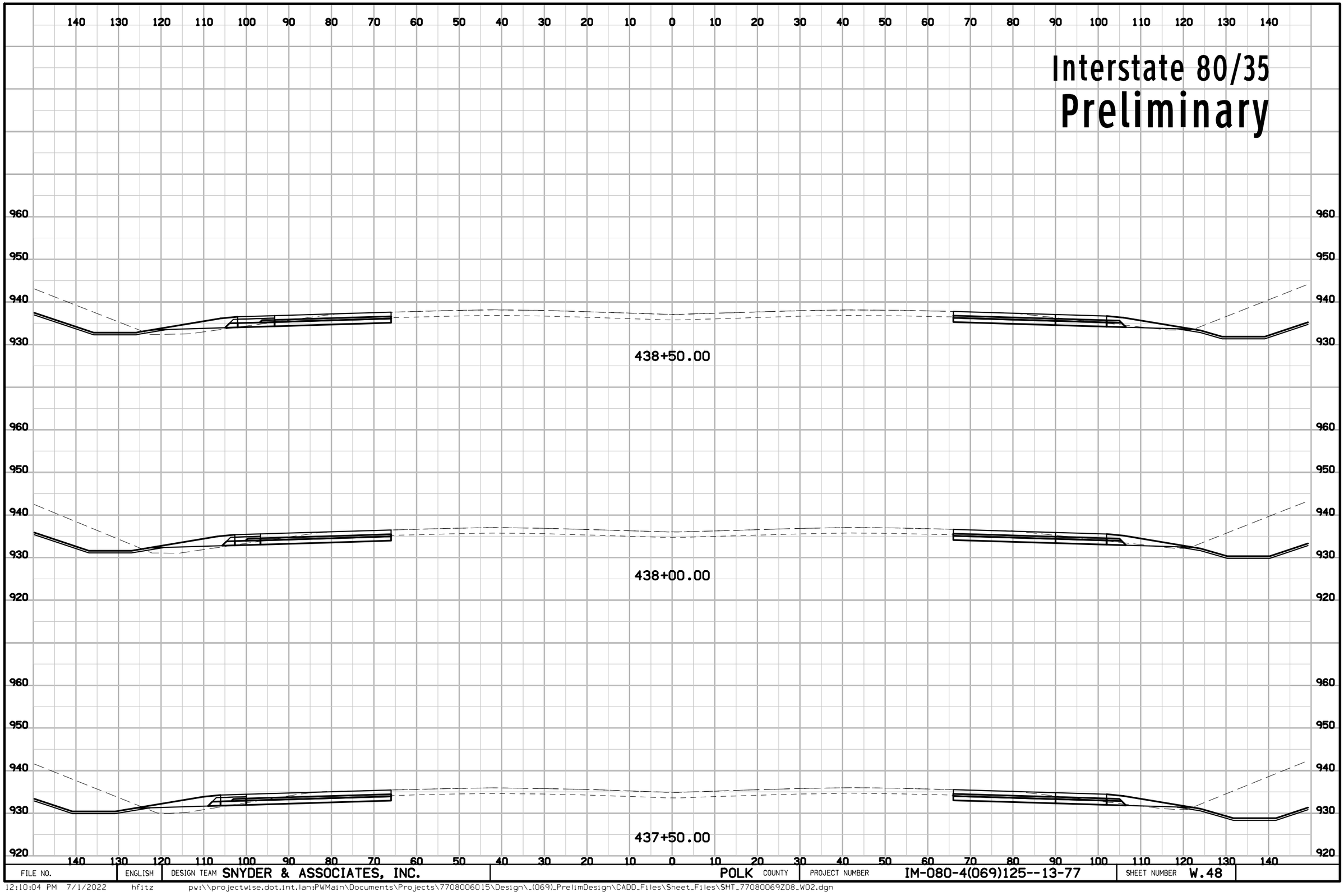
Interstate 80/35
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER W.48

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Interstate 80/35
Preliminary

140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140

950 940 930

440+50.00

960 950 940 930

440+00.00

960 950 940 930

439+50.00

960 950 940 930

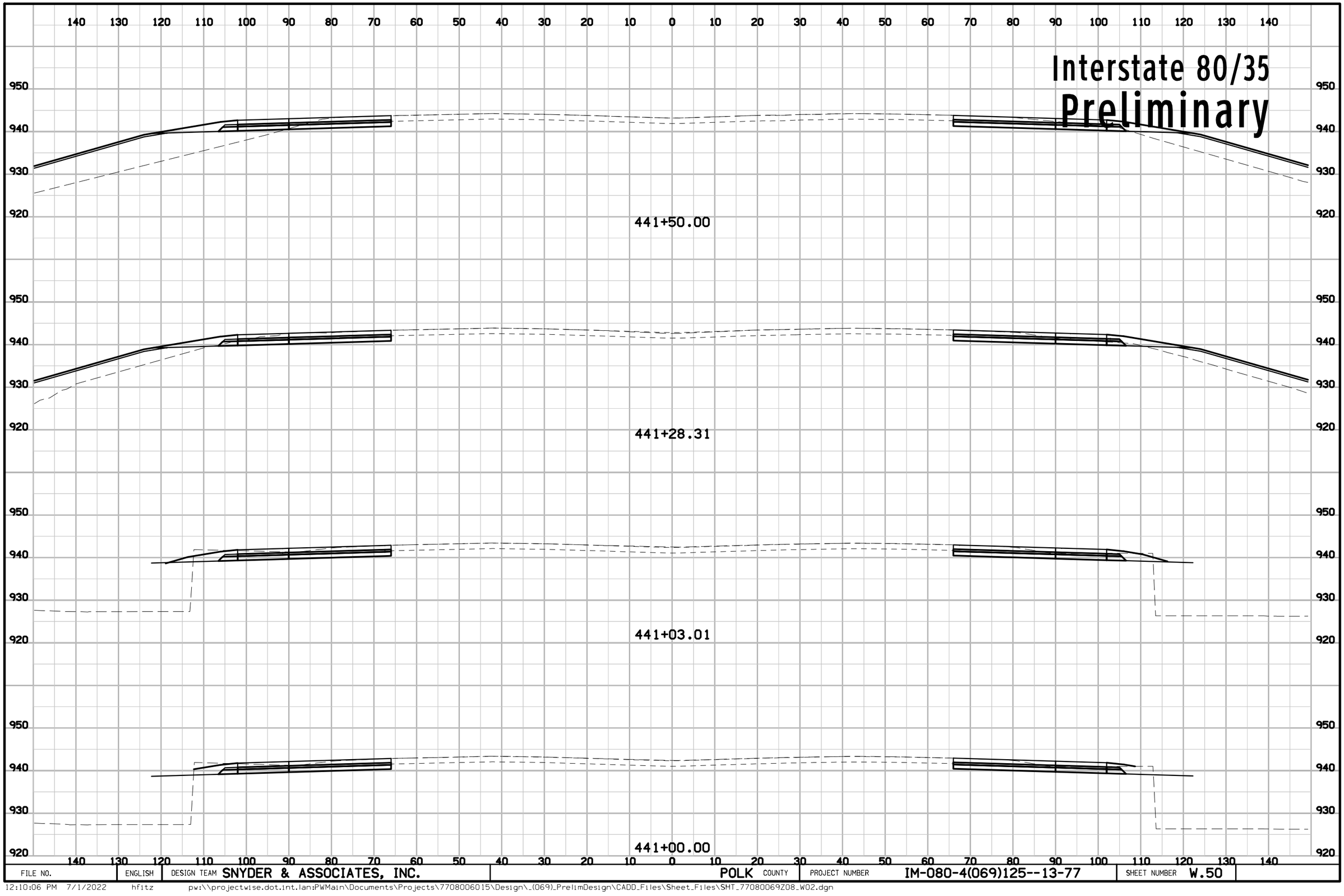
439+00.00

140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140

FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER W.49

12:10:05 PM 7/1/2022 hfitz pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\7708006015\Design_(069)_PrelimDesign\CADD_Files\Sheet_Files\SHT_7708006928_W02.dgn

Interstate 80/35
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER W.50

12:10:06 PM 7/1/2022 hfitz pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\7708006015\Design_(069)_PrelimDesign\CADD_Files\Sheet_Files\SHT_7708006928_W02.dgn

Interstate 80/35
Preliminary

140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140

950 940 930 920 910 900

442+95.97

950 940 930 920 910

442+50.00

950 940 930 920

442+00.00

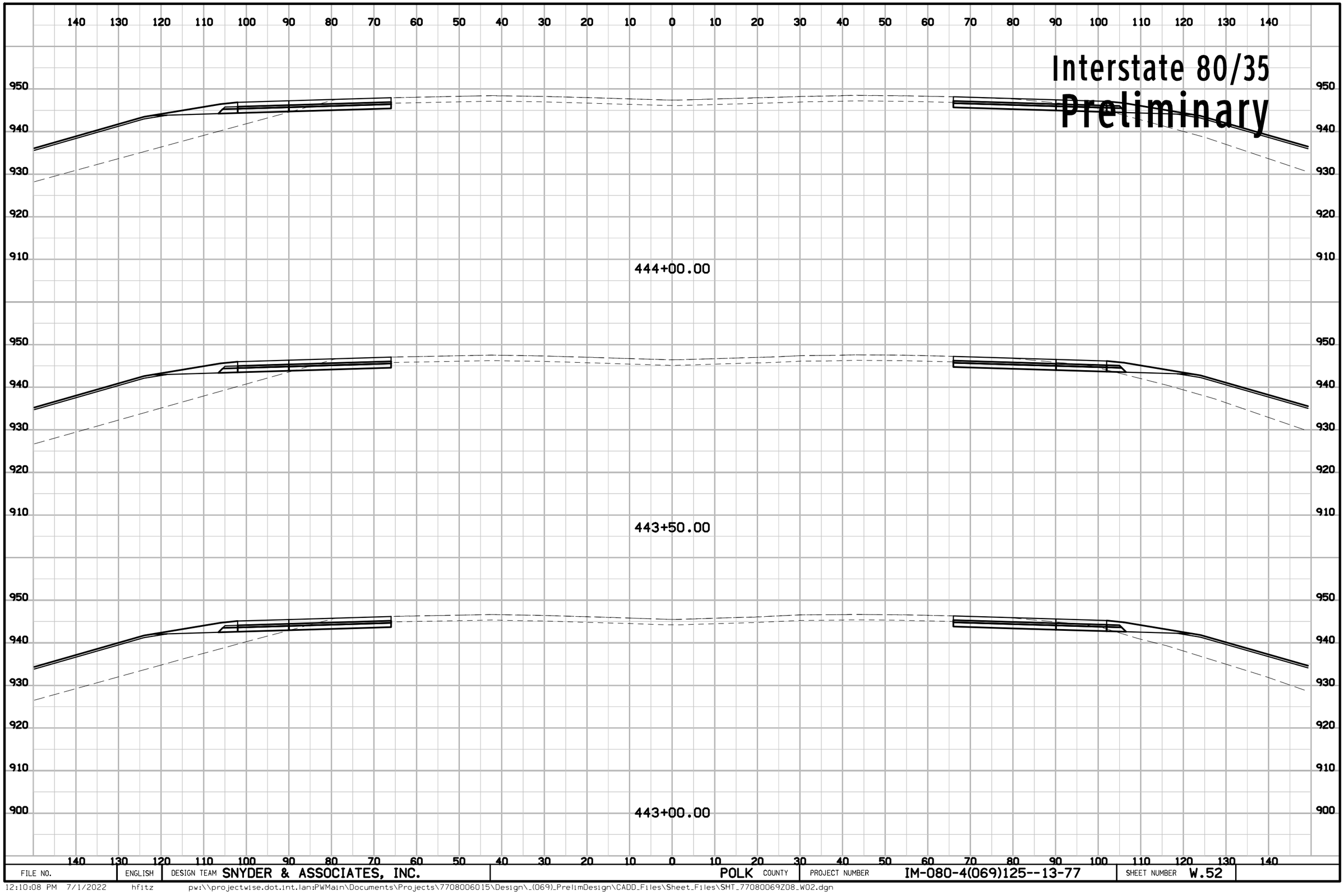
140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140

FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER W.51

12:10:07 PM 7/1/2022 hfitz pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\7708006015\Design_(069)_PrelimDesign\CADD_Files\Sheet_Files\SHT_77080069Z08_W02.dgn

Interstate 80/35

Preliminary



FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER W.52

12:10:08 PM 7/1/2022 hfitz pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\7708006015\Design_(069)_PrelimDesign\CADD_Files\Sheet_Files\SHT_7708006928_W02.dgn

Interstate 80/35

Preliminary

445+00.00

444+87.88

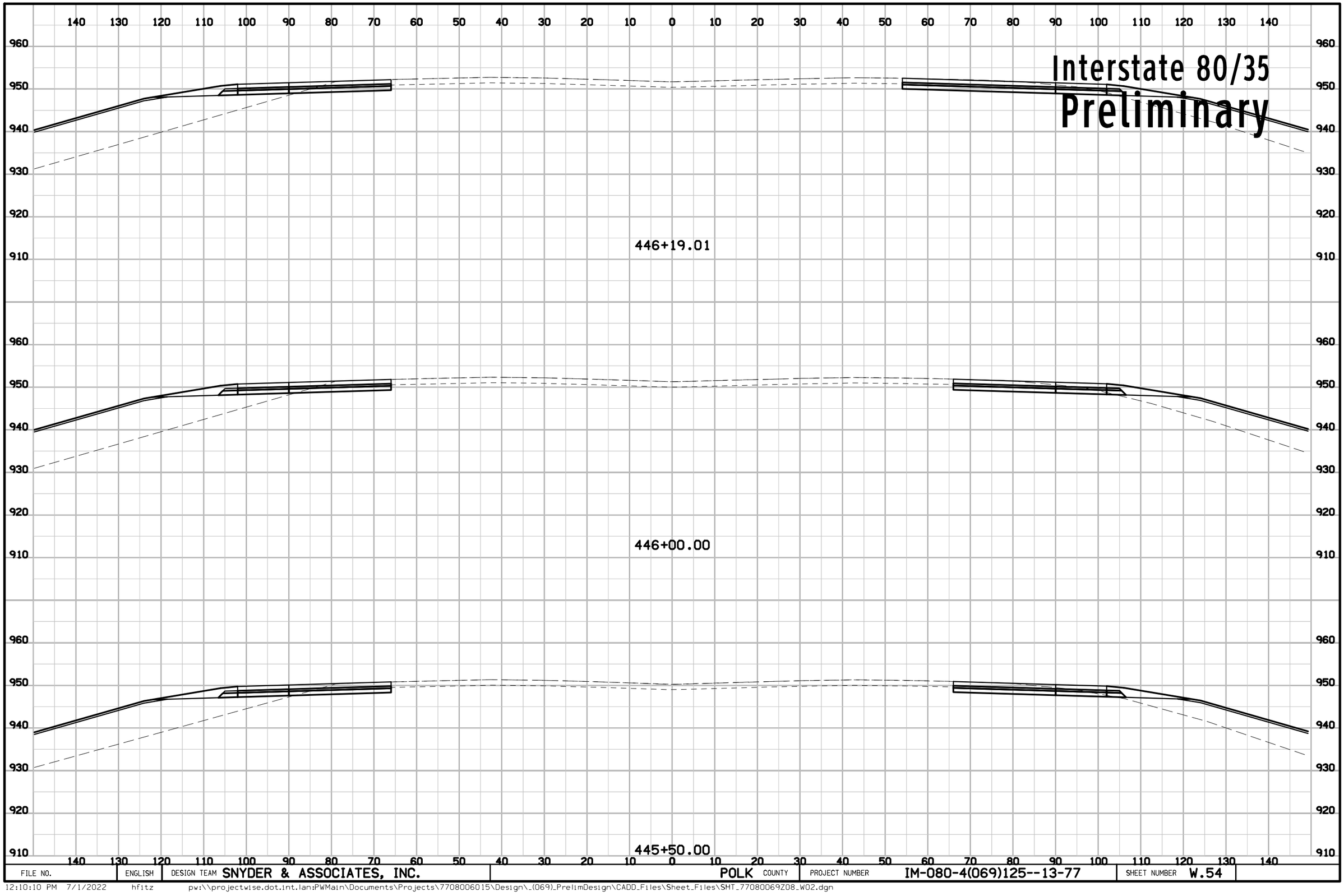
444+50.00

FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER W.53

12:10:09 PM 7/1/2022 hfitz pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\7708006015\Design_(069)_PrelimDesign\CADD_Files\Sheet_Files\SHT_77080069Z08_W02.dgn

Interstate 80/35

Preliminary

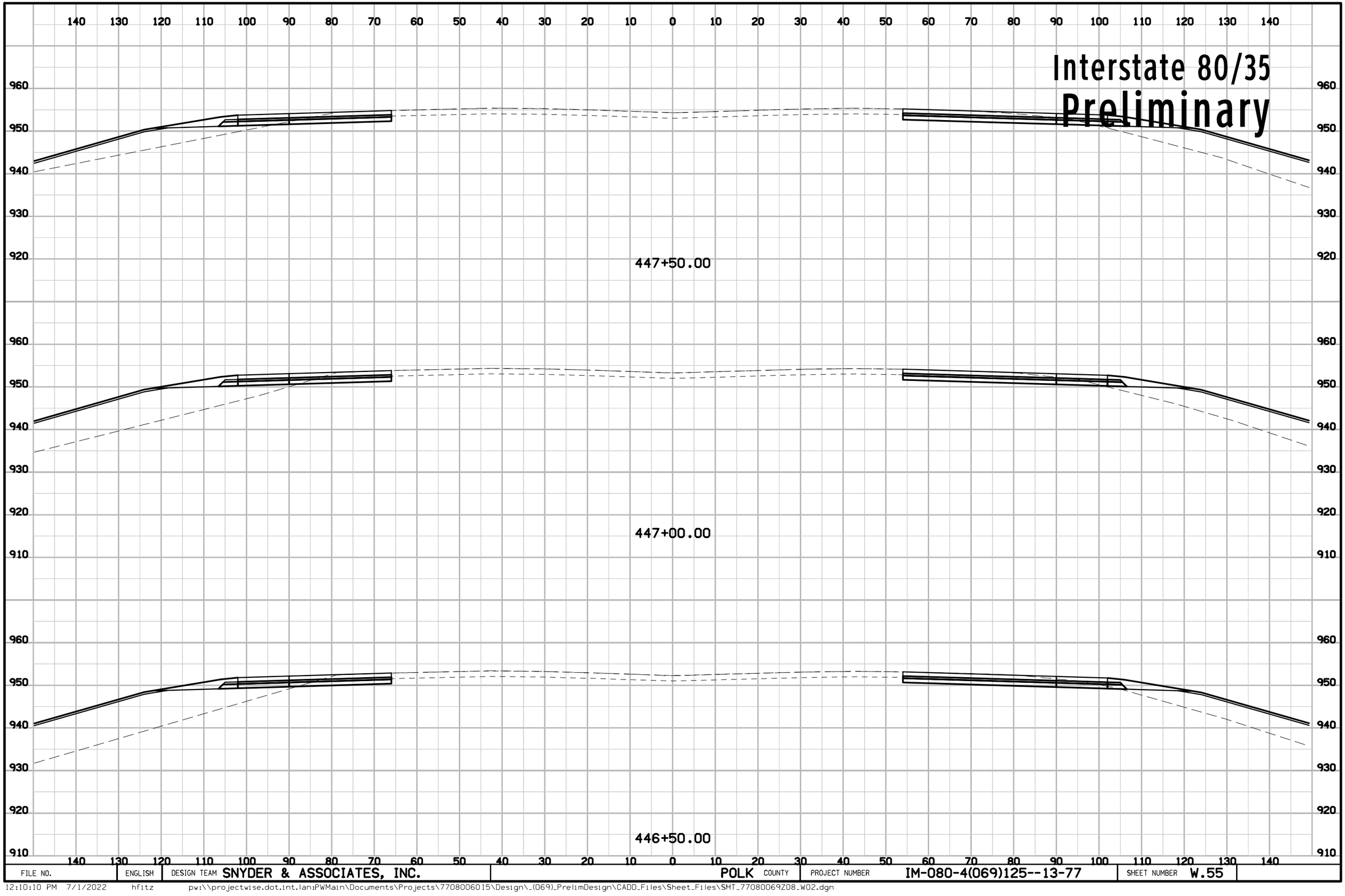


FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER W.54

12:10:10 PM 7/1/2022 hfitz pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\7708006015\Design_(069)_PrelimDesign\CADD_Files\Sheet_Files\SHT_77080069Z08_W02.dgn

Interstate 80/35

Preliminary



FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER W.55

12:10:10 PM 7/1/2022 hfitz pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\7708006015\Design_(069)_PrelimDesign\CADD_Files\Sheet_Files\SHT_7708006908_W02.dgn

Interstate 80/35
Preliminary

140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140

960 950 940

449+00.00

960 950 940

448+99.21

960 950 940 930

448+50.00

960 950 940 930

448+00.00

920

140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140

FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER W.56

12:10:11 PM 7/1/2022 hfitz pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\7708006015\Design_(069)_PrelimDesign\CADD_Files\Sheet_Files\SHT_77080069Z08_W02.dgn

Interstate 80/35
Preliminary

140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140

980 970 960 950

451+00.00

980 970 960 950

450+50.00

980 970 960 950

450+00.00

970 960 950 940

449+50.00

140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140

FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER W.57

12:10:12 PM 7/1/2022 hfitz pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\7708006015\Design_(069)_PrelimDesign\CADD_Files\Sheet_Files\SHT_7708006908_W02.dgn

Interstate 80/35

Preliminary

140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140

980 970 960 950

452+50.00

452+00.00

451+50.00

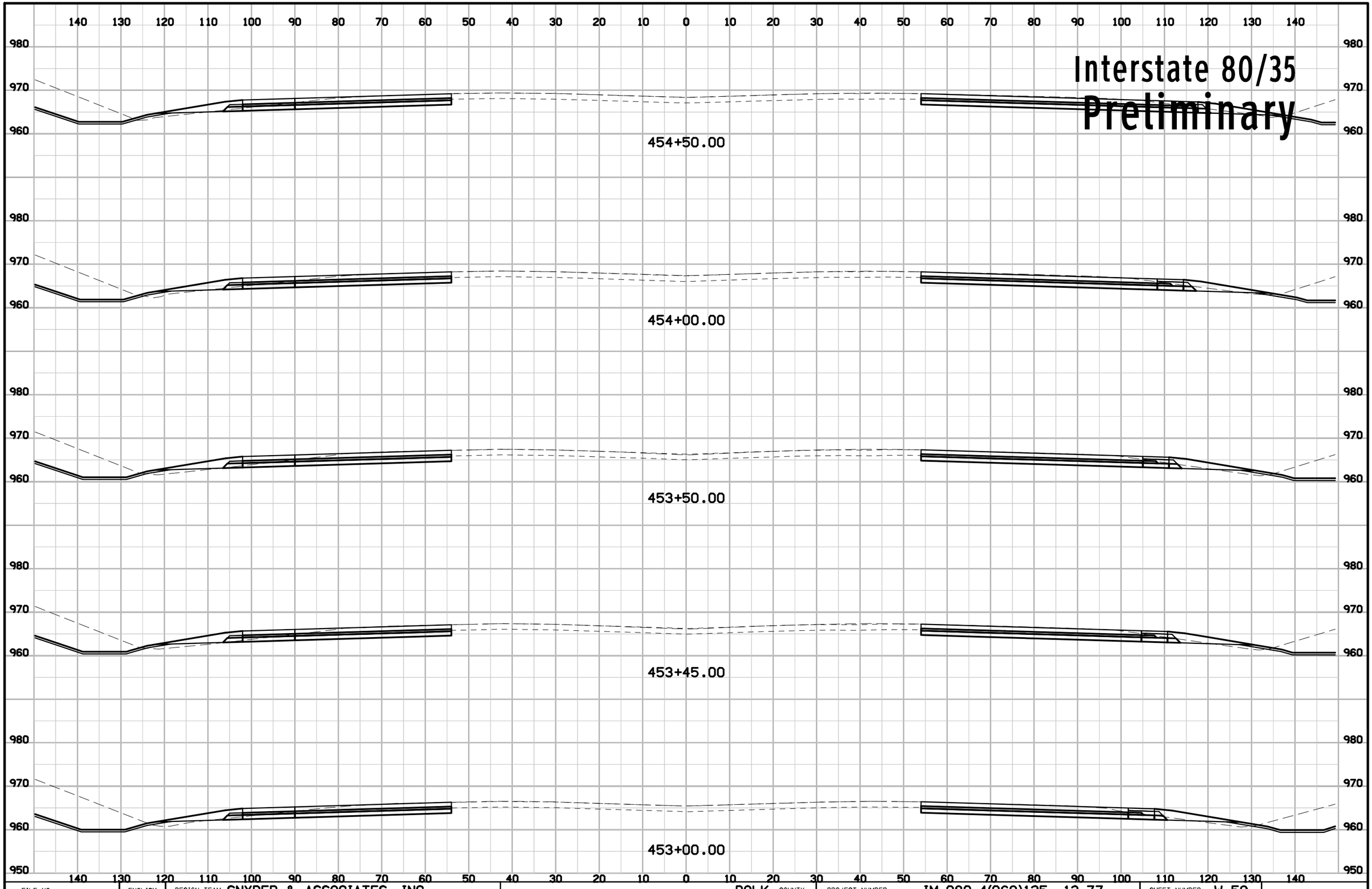
451+25.00

FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER W.58

12:10:13 PM 7/1/2022 hfitz pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\7708006015\Design_(069)_PrelimDesign\CADD_Files\Sheet_Files\SHT_77080069Z08_W02.dgn

Interstate 80/35

Preliminary



FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER W.59

12:10:14 PM 7/1/2022 hfitz pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\7708006015\Design_(069)_PrelimDesign\CADD_Files\Sheet_Files\SHT_77080069Z08_W02.dgn

Interstate 80/35

Preliminary

140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140

980 970 960

456+25.00

980 970 960

456+00.00

980 970 960

455+75.80

980 970 960

455+50.00

980 970 960

455+00.00

140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140

FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER W.60

12:10:15 PM 7/1/2022 hfitz pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\7708006015\Design_(069)_PrelimDesign\CADD_Files\Sheet_Files\SHT_77080069Z08_W02.dgn

Interstate 80/35

Preliminary

140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140

980 970 960

457+60.15

457+50.00

457+25.00

457+00.00

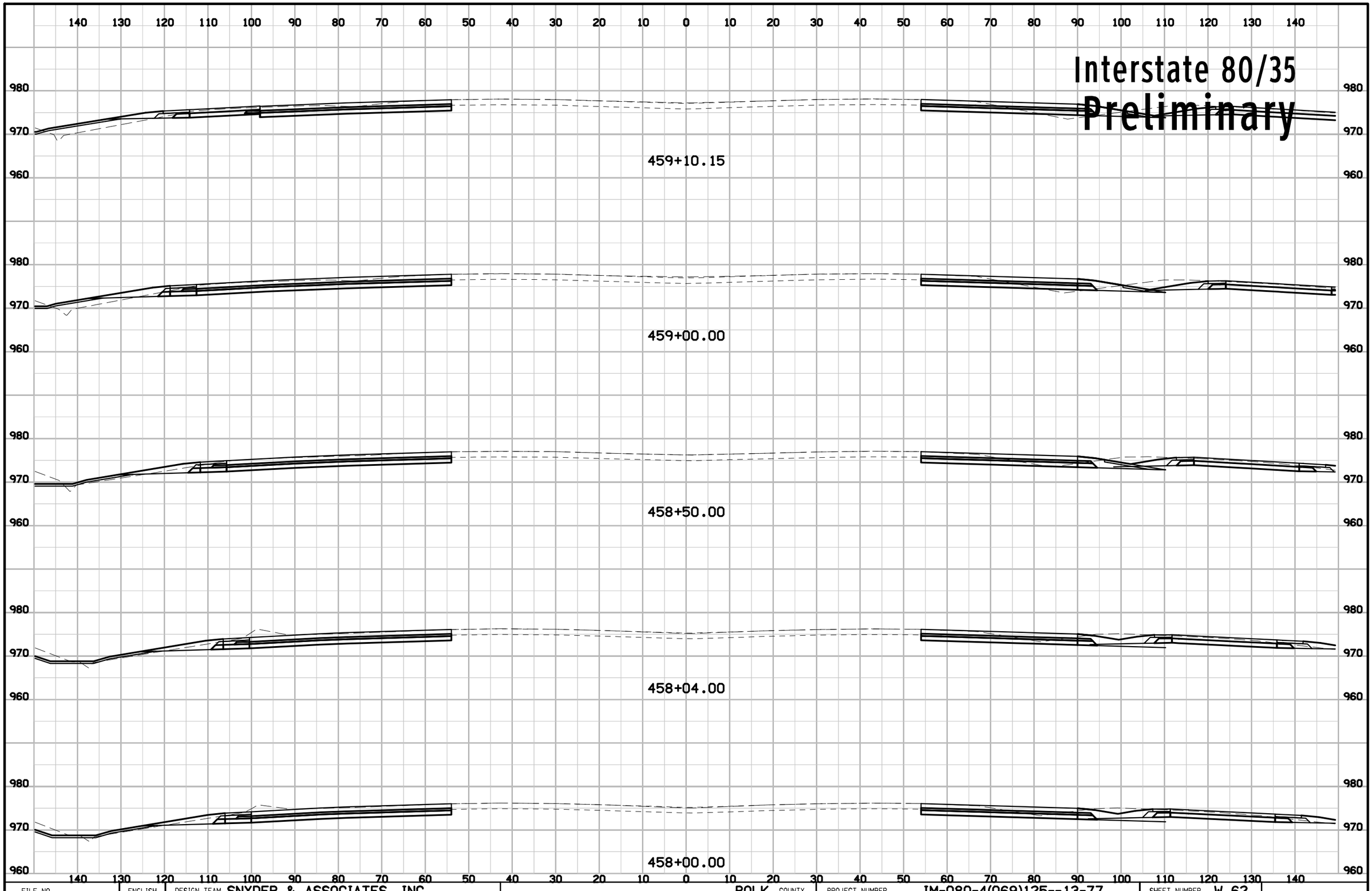
456+50.00

FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER W.61

12:10:15 PM 7/1/2022 hfitz pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\7708006015\Design_(069)_PrelimDesign\CADD_Files\Sheet_Files\SHT_77080069Z08_W02.dgn

Interstate 80/35

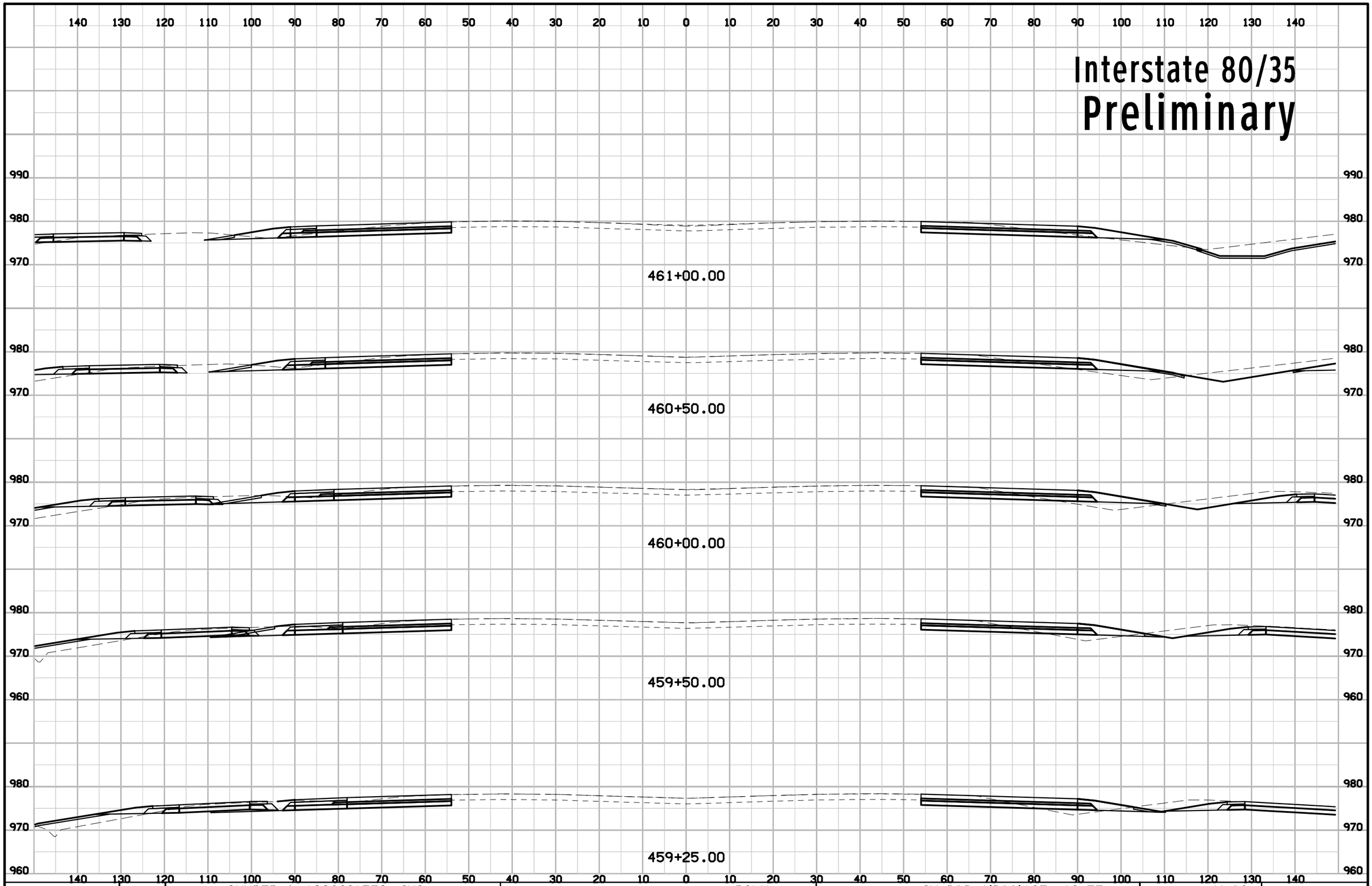
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER W.62

12:10:16 PM 7/1/2022 hfitz pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\7708006015\Design_(069)_PrelimDesign\CADD_Files\Sheet_Files\SHT_77080069Z08_W02.dgn

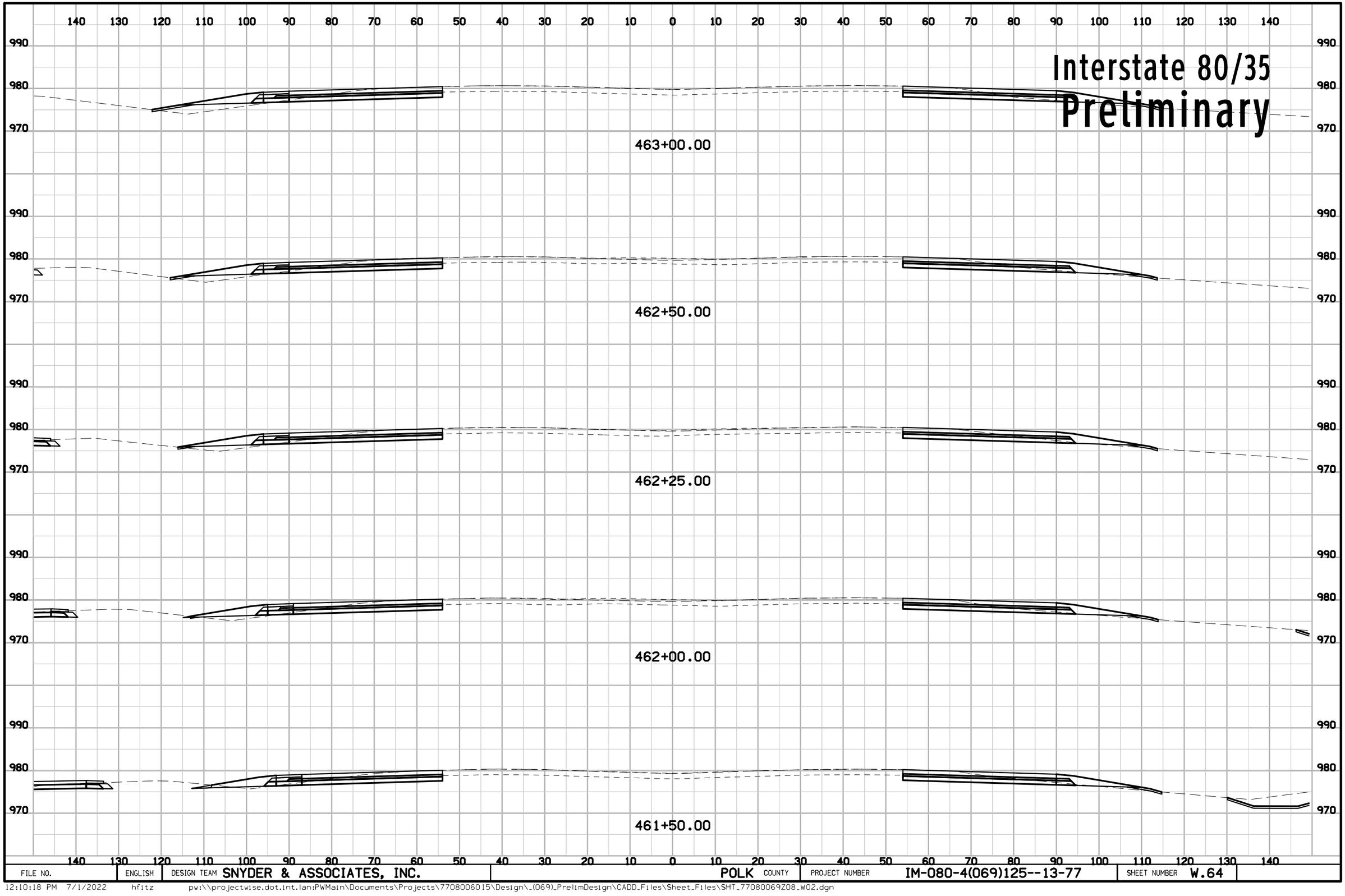
Interstate 80/35
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER W.63

12:10:17 PM 7/1/2022 hfitz pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\7708006015\Design_(069)_PrelimDesign\CADD_Files\Sheet_Files\SHT_7708006928_W02.dgn

Interstate 80/35
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER W.64

12:10:18 PM 7/1/2022 hfitz pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\7708006015\Design_(069)_PrelimDesign\CADD_Files\Sheet_Files\SHT_7708006928_W02.dgn

Interstate 80/35
Preliminary

140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140

990
980
970

465+50.00

465+00.00

464+50.00

464+00.00

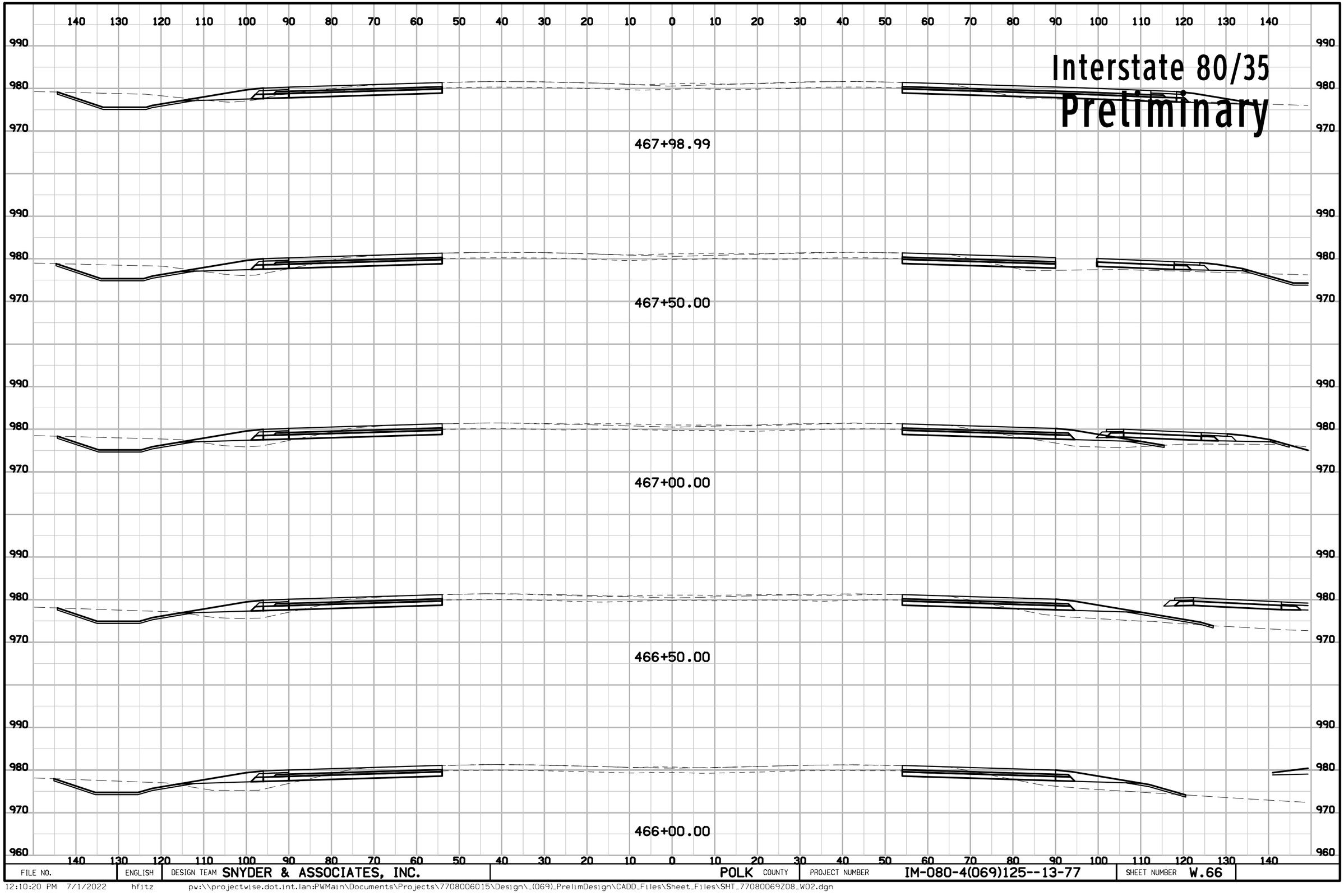
463+50.00

FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER W.65

12:10:19 PM 7/1/2022 hfitz pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\7708006015\Design_(069)_PrelimDesign\CADD_Files\Sheet_Files\SHT_7708006908_W02.dgn

Interstate 80/35

Preliminary



FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER W.66

12:10:20 PM 7/1/2022 hfitz pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\7708006015\Design_(069)_PrelimDesign\CADD_Files\Sheet_Files\SHT_7708006908_W02.dgn

Interstate 80/35

Preliminary

140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140

990
980
970

469+49.97

469+24.97

469+00.00

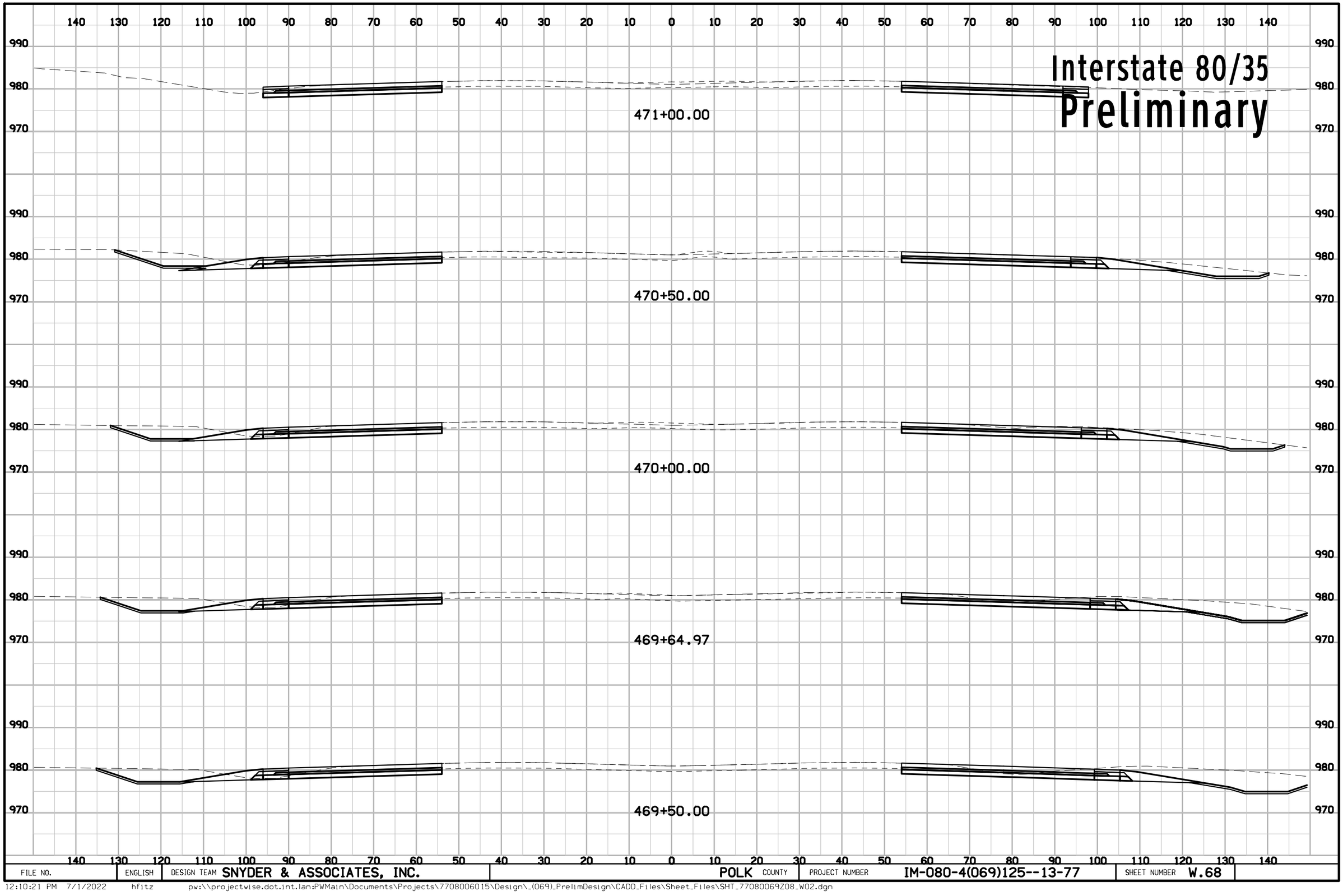
468+50.00

468+00.00

FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER W.67

12:10:21 PM 7/1/2022 hfitz pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\7708006015\Design_(069)_PrelimDesign\CADD_Files\Sheet_Files\SHT_7708006928_W02.dgn

Interstate 80/35
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER W.68

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Interstate 80/35
Preliminary

140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140

1010
1000
990
980
970



472+00.00

1000
990
980
970



471+50.00

1000
990
980
970



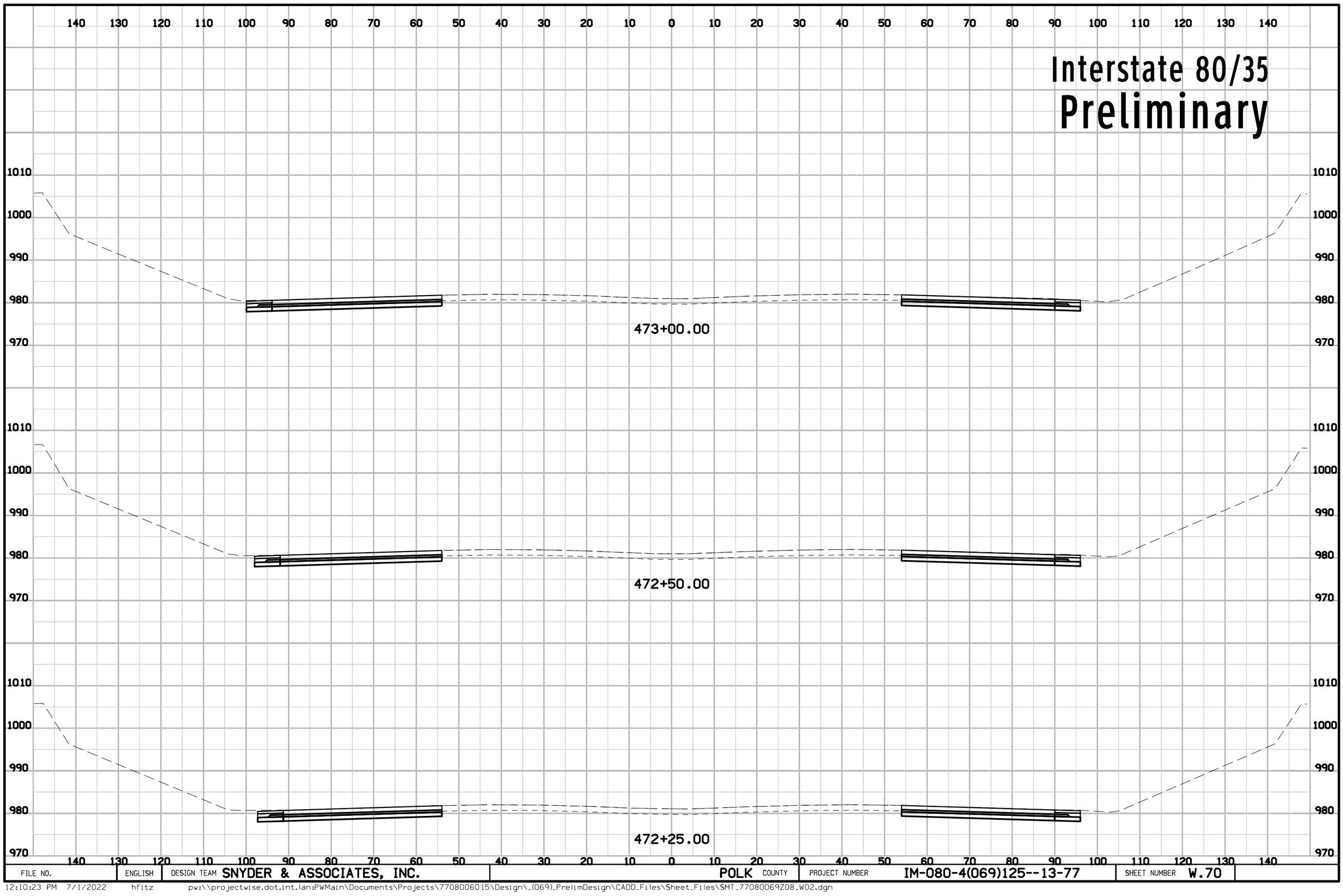
471+25.00

140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140

FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER W.69

12:10:22 PM 7/1/2022 hfitz pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\7708006015\Design_(069)_PrelimDesign\CADD_Files\Sheet_Files\SHT_77080069Z08_W02.dgn

Interstate 80/35
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER W.70

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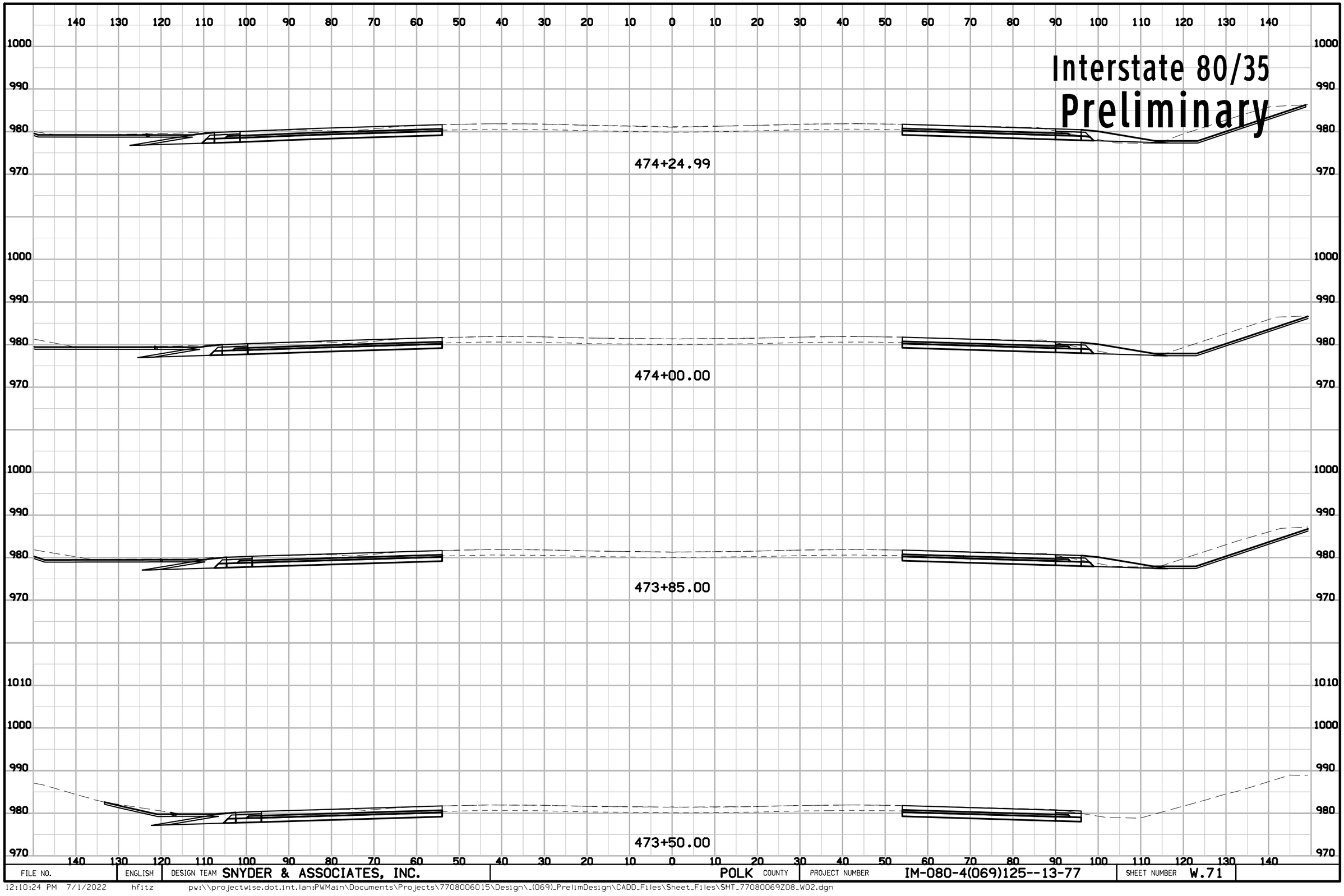
Interstate 80/35

Preliminary



FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER W.71

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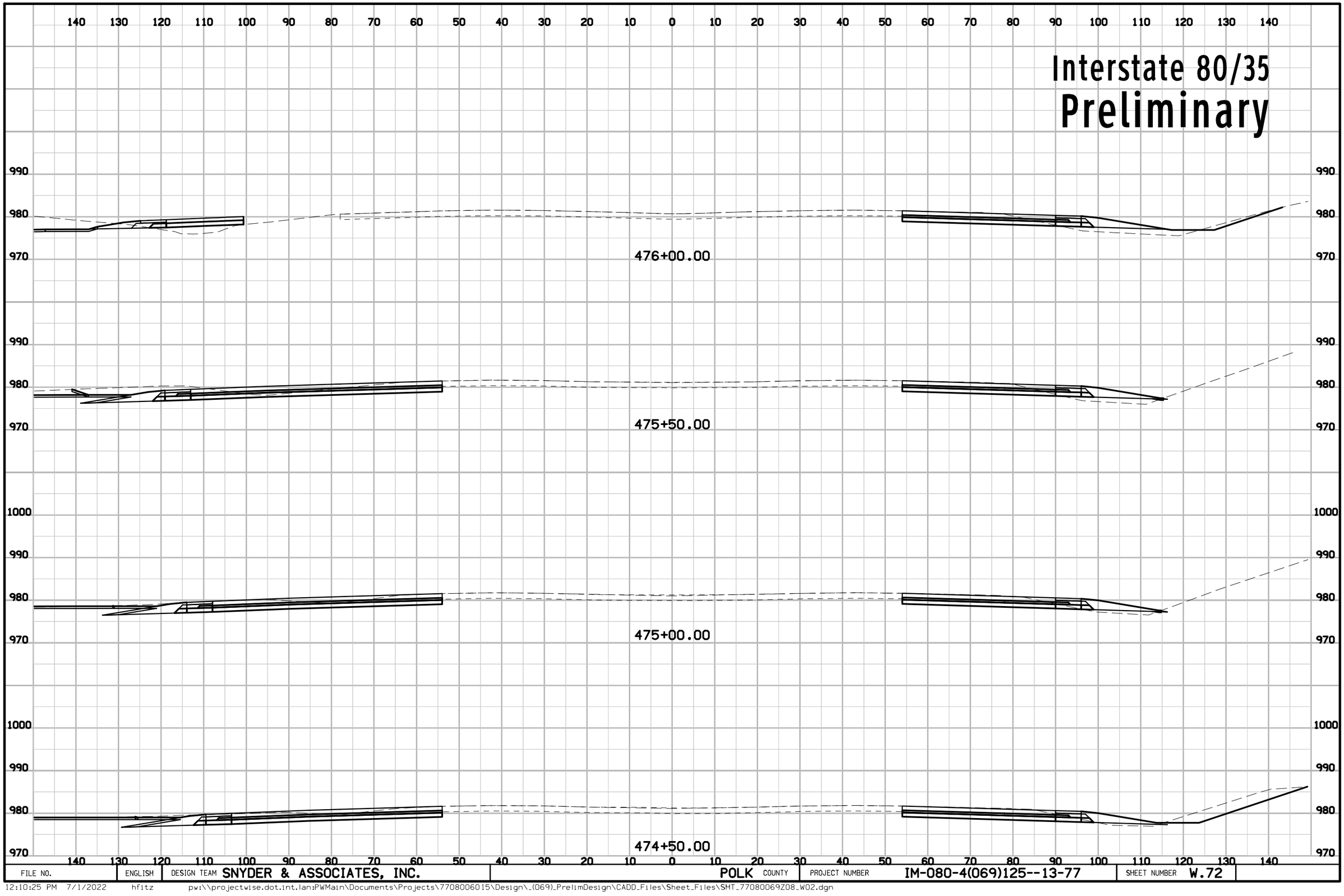
Interstate 80/35
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER W.72

12:10:25 PM 7/1/2022 hfitz pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\7708006015\Design_(069)_PrelimDesign\CADD_Files\Sheet_Files\SHT_77080069Z08_W02.dgn

Interstate 80/35
Preliminary

140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140

990
980
970

478+00.00

990
980
970

477+50.00

990
980
970

477+00.00

990
980
970

476+50.00

990
980
970

476+46.01

140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140

FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER W.73

12:10:26 PM 7/1/2022 hfitz pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\7708006015\Design_(069)_PrelimDesign\CADD_Files\Sheet_Files\SHT_77080069Z08_W02.dgn

Interstate 80/35

Preliminary

480+50.00

480+00.00

479+50.00

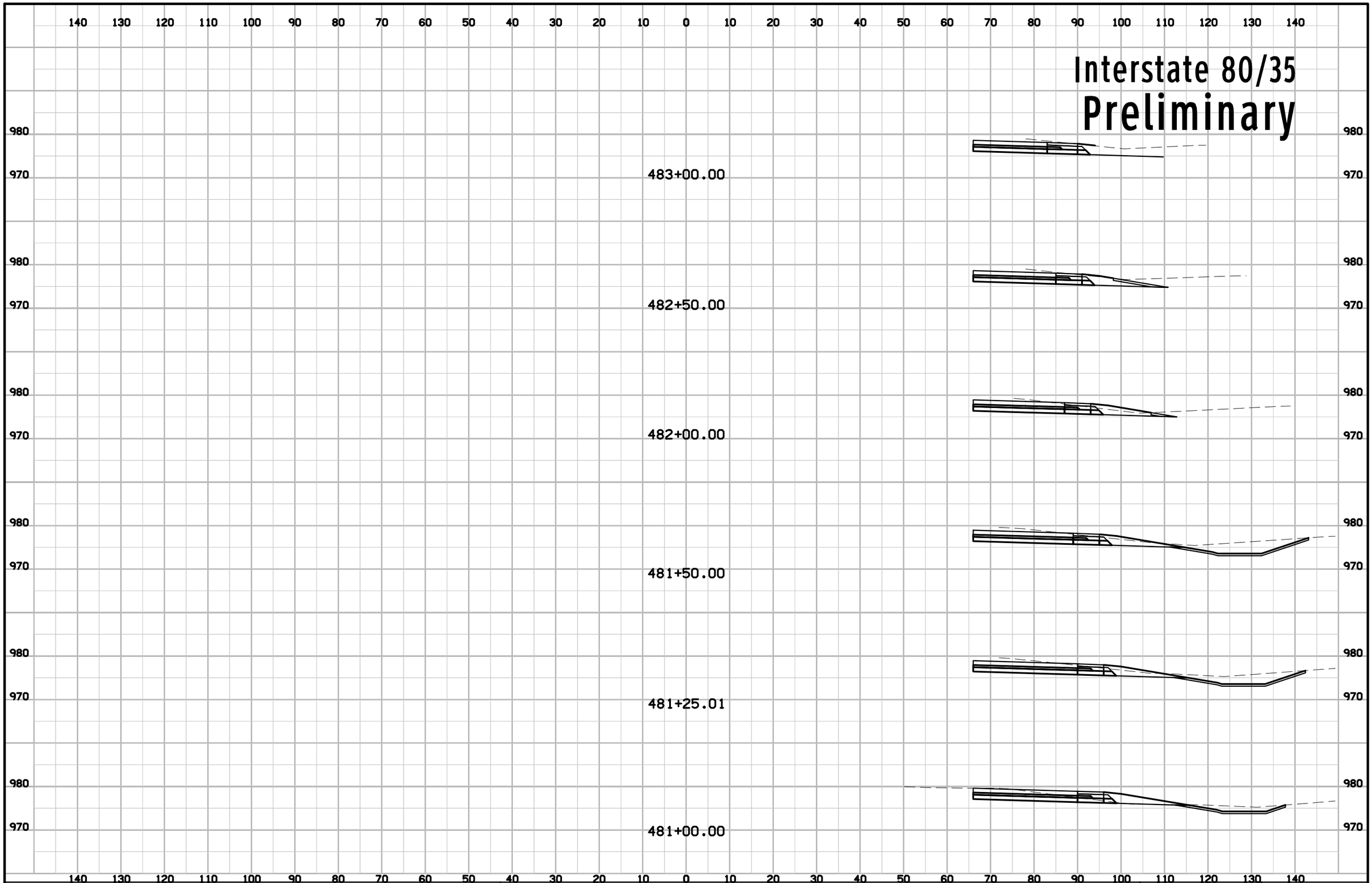
479+00.00

478+50.00

FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER W.74

12:10:27 PM 7/1/2022 hfitz pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\7708006015\Design_(069)_PrelimDesign\CADD_Files\Sheet_Files\SHT_77080069Z08_W02.dgn

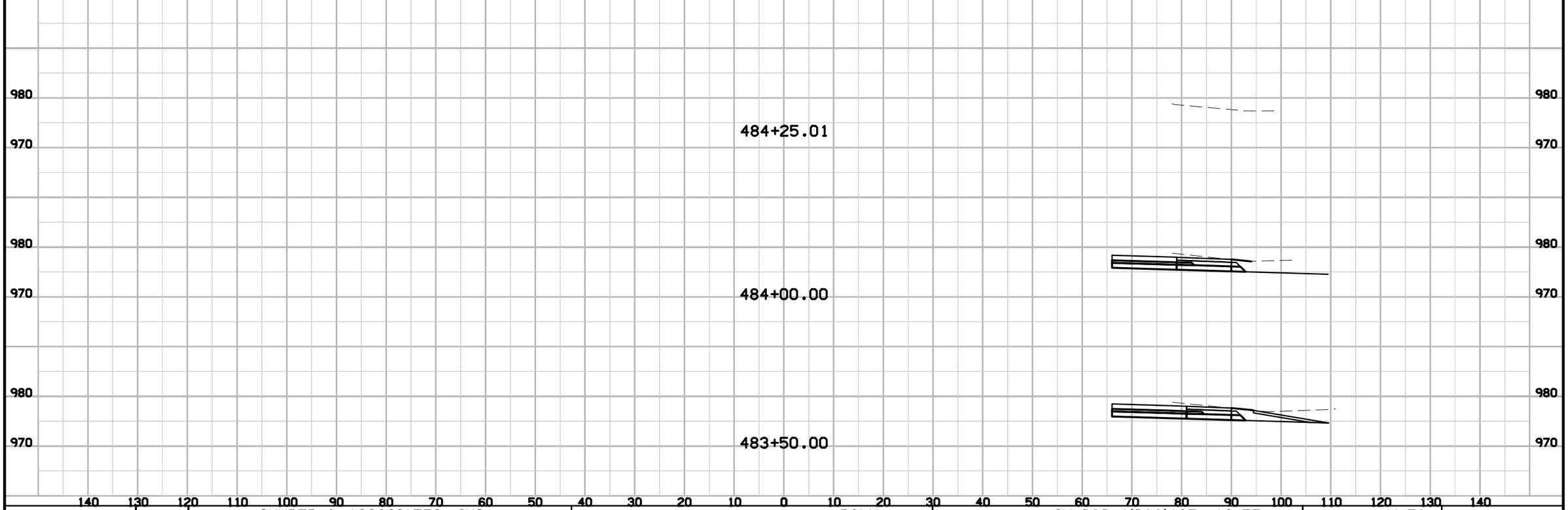
Interstate 80/35
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER W.75

12:10:27 PM 7/1/2022 hfitz pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\7708006015\Design_(069)_PrelimDesign\CADD_Files\Sheet_Files\SHT_77080069Z08_W02.dgn

Interstate 80/35
Preliminary

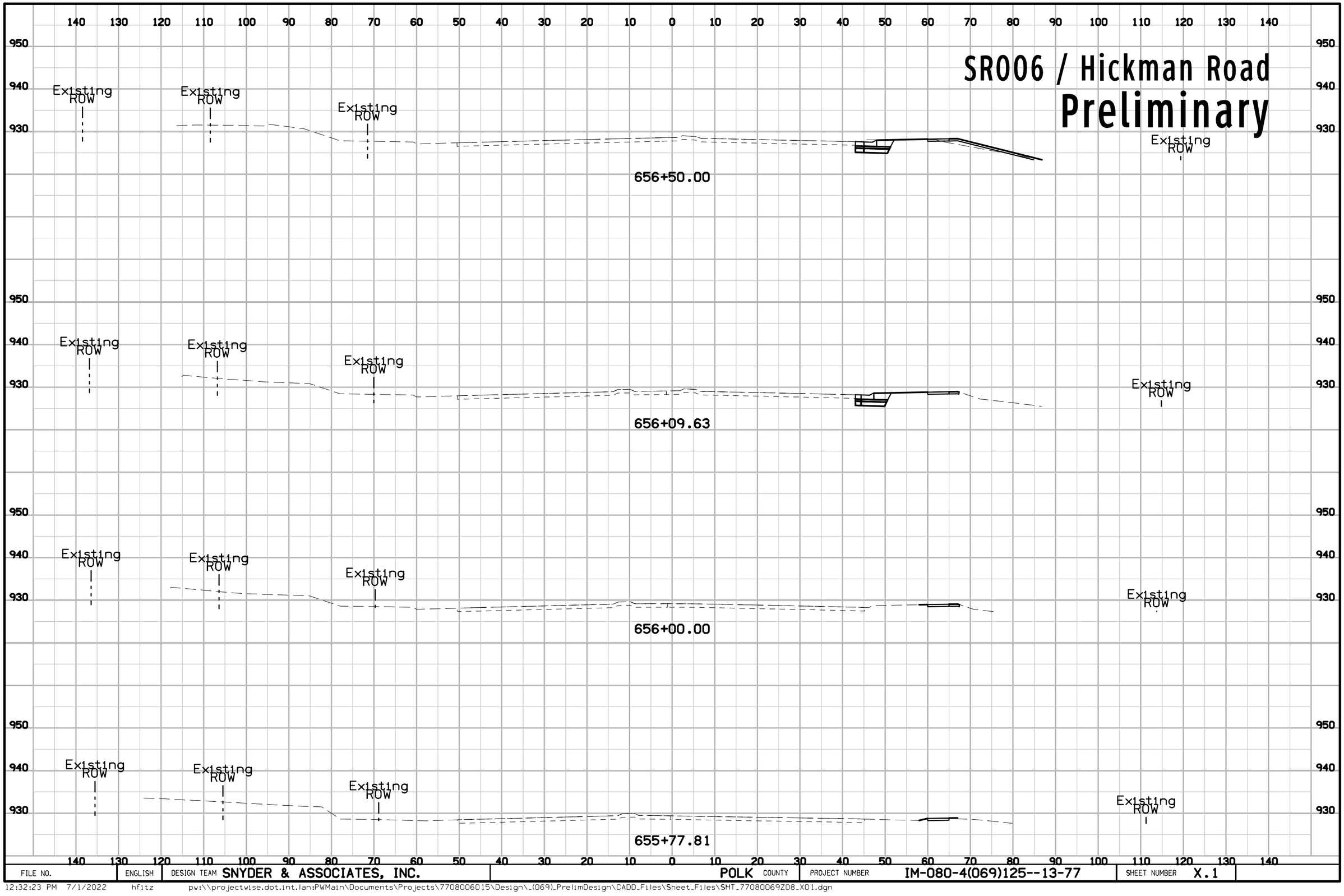


FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER W.76

12:10:28 PM 7/1/2022 hfitz pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\7708006015\Design_(069)_PrelimDesign\CADD_Files\Sheet_Files\SHT_77080069Z08_W02.dgn

SR006 / Hickman Road

Preliminary



FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER X.1

12:32:23 PM 7/1/2022 hfitz pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\7708006015\Design_(069)_PrelimDesign\CADD_Files\Sheet_Files\SHT_77080069Z08_X01.dgn

SR006 / Hickman Road

Preliminary

140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140

950
940
930

Existing ROW
Existing ROW
Existing ROW
Existing ROW

656+86.43

950
940
930

Existing ROW
Existing ROW
Existing ROW
Existing ROW

656+86.25

950
940
930

Existing ROW
Existing ROW
Existing ROW
Existing ROW

656+54.33

140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140

FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER X.2

12:32:23 PM 7/1/2022 hfitz pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\7708006015\Design_(069)_PrelimDesign\CADD_Files\Sheet_Files\SHT_77080069Z08_X01.dgn

SR006 / Hickman Road

Preliminary

140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140

940
930
920

Existing ROW
Existing ROW
Existing ROW
Existing ROW

658+00.00

940
930
920

Existing ROW
Existing ROW
Existing ROW
Existing ROW

657+50.00

950
940
930

Existing ROW
Existing ROW
Existing ROW
Existing ROW

657+00.00

140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140

FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER X.3

12:32:24 PM 7/1/2022 hfitz pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\7708006015\Design_(069)_PrelimDesign\CADD_Files\Sheet_Files\SHT_77080069Z08_X01.dgn

SR006 / Hickman Road

Preliminary

140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140

940
930
920

Existing ROW

Existing ROW

Existing ROW

659+00.00

Existing ROW

940
930
920

Existing ROW

Existing ROW

Existing ROW

658+50.00

Existing ROW

940
930
920

Existing ROW

Existing ROW

Existing ROW

658+29.51

Existing ROW

140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140

FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER X.4

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SR006 / Hickman Road

Preliminary

140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140

940
930
920
910

Existing ROW

Existing ROW

Existing ROW

Existing ROW

659+55.69

940
930
920

Existing ROW

Existing ROW

Existing ROW

Existing ROW

659+50.00

940
930
920

Existing ROW

Existing ROW

Existing ROW

Existing ROW

659+36.53

140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140

FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER X.5

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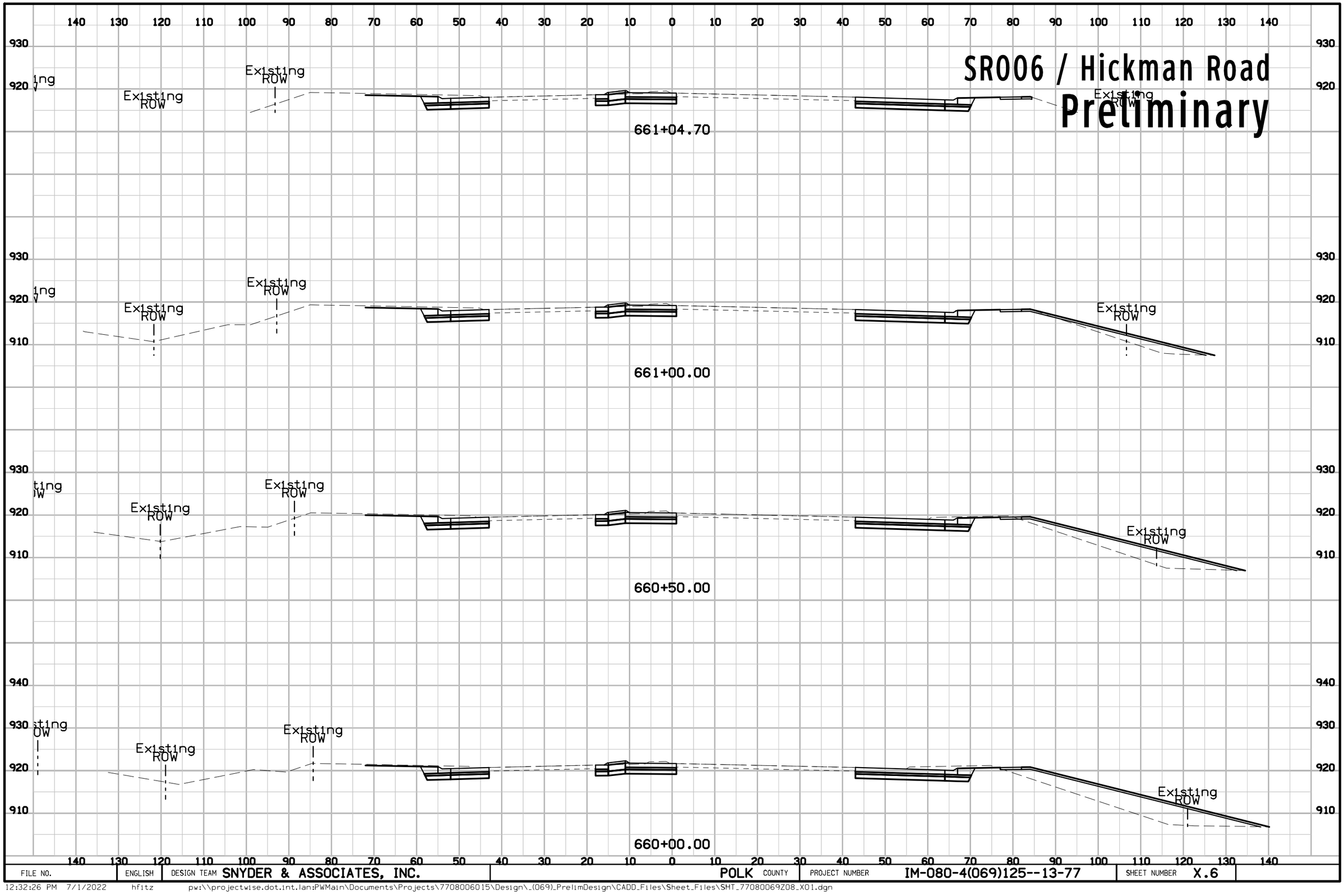
SR006 / Hickman Road

Preliminary



FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER X.6

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SR006 / Hickman Road

Preliminary

140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140

930
920

Existing ROW
Existing ROW
Existing ROW

662+50.00

930
920

Existing ROW
Existing ROW
Existing ROW

662+36.00

930
920

g
Existing ROW
Existing ROW
Existing ROW

662+00.00

930
920

ng
Existing ROW
Existing ROW
Existing ROW

661+50.00

140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140

FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER X.7

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SR006 / Hickman Road

Preliminary

140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140

910

900

Existing ROW

Existing ROW

665+00.00

664+50.00

664+13.83

664+00.00

920

910

663+56.68

FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER X.8

12:32:27 PM 7/1/2022 hfitz pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\7708006015\Design_(069)_PrelimDesign\CADD_Files\Sheet_Files\SHT_7708006908_X01.dgn

SR006 / Hickman Road

Preliminary

140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140

910
900
890

Existing ROW

666+50.00

666+00.00

665+75.00

665+50.00

FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER X.9

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SR006 / Hickman Road

Preliminary

140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140

910
900
890
880

Existing ROW

667+50.00

667+48.18

667+00.00

FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER X.10

12:32:28 PM 7/1/2022 hfitz pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\7708006015\Design_(069)_PrelimDesign\CADD_Files\Sheet_Files\SHT_77080069Z08_X01.dgn

SR006 / Hickman Road

Preliminary

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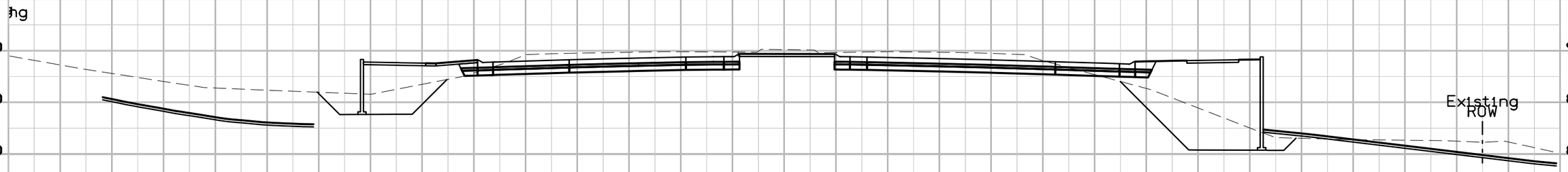
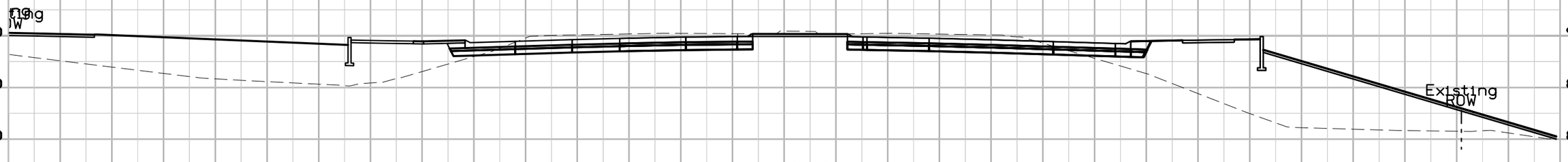
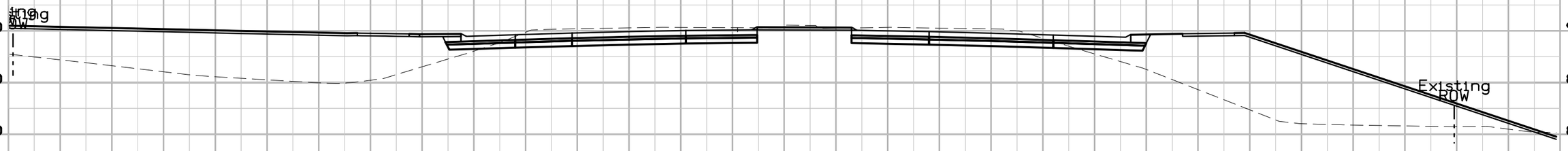
920
910
900
890
880



668+37.62



668+00.00



667+87.50

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FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER X.11

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SR006 / Hickman Road

Preliminary

140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140

900
890
880

Existing ROW

669+00.00

920
910
900
890
880

Existing ROW

668+59.02

920
910
900
890

Existing ROW

668+50.00

140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140

FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER X.12

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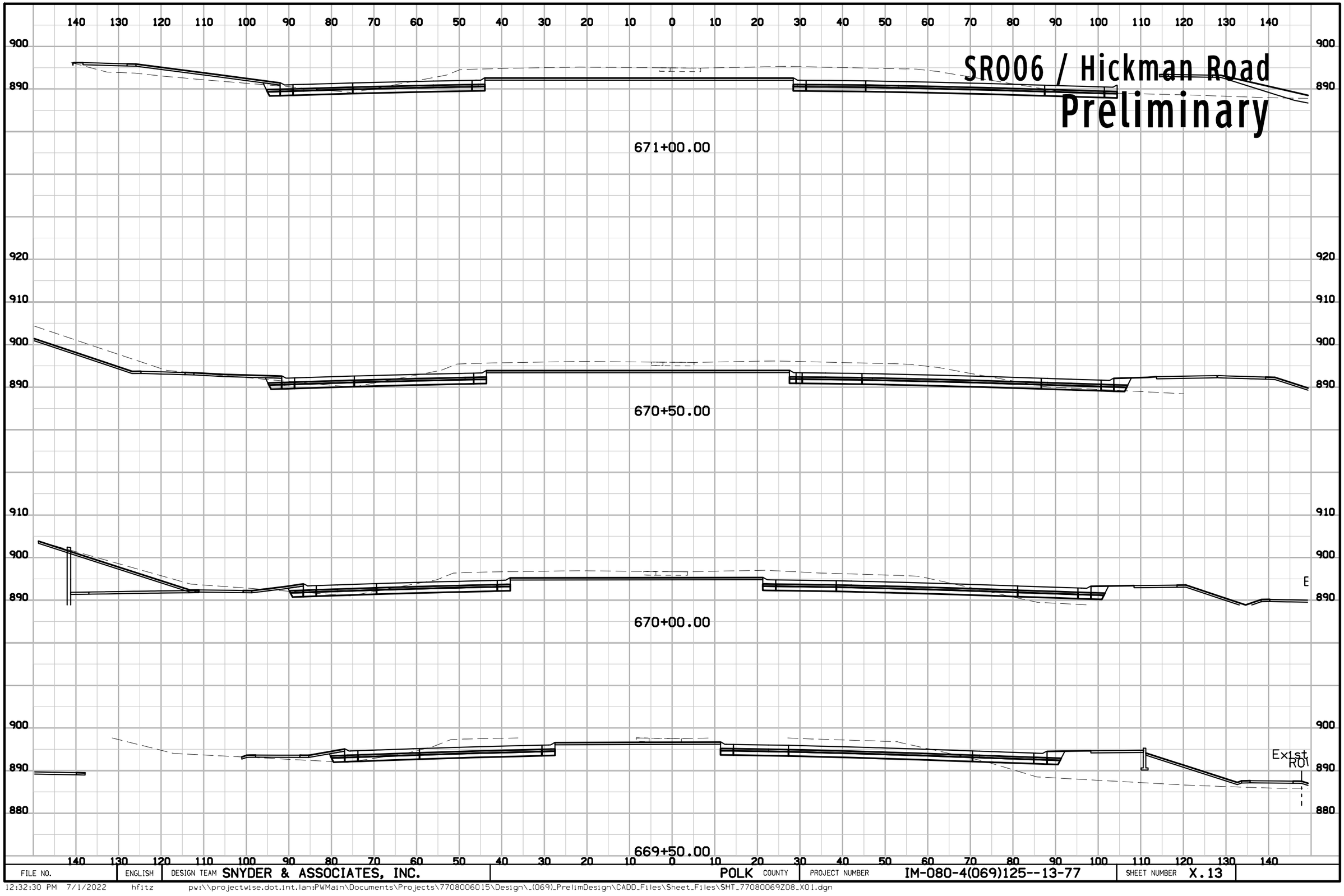
SR006 / Hickman Road

Preliminary



FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER X.13

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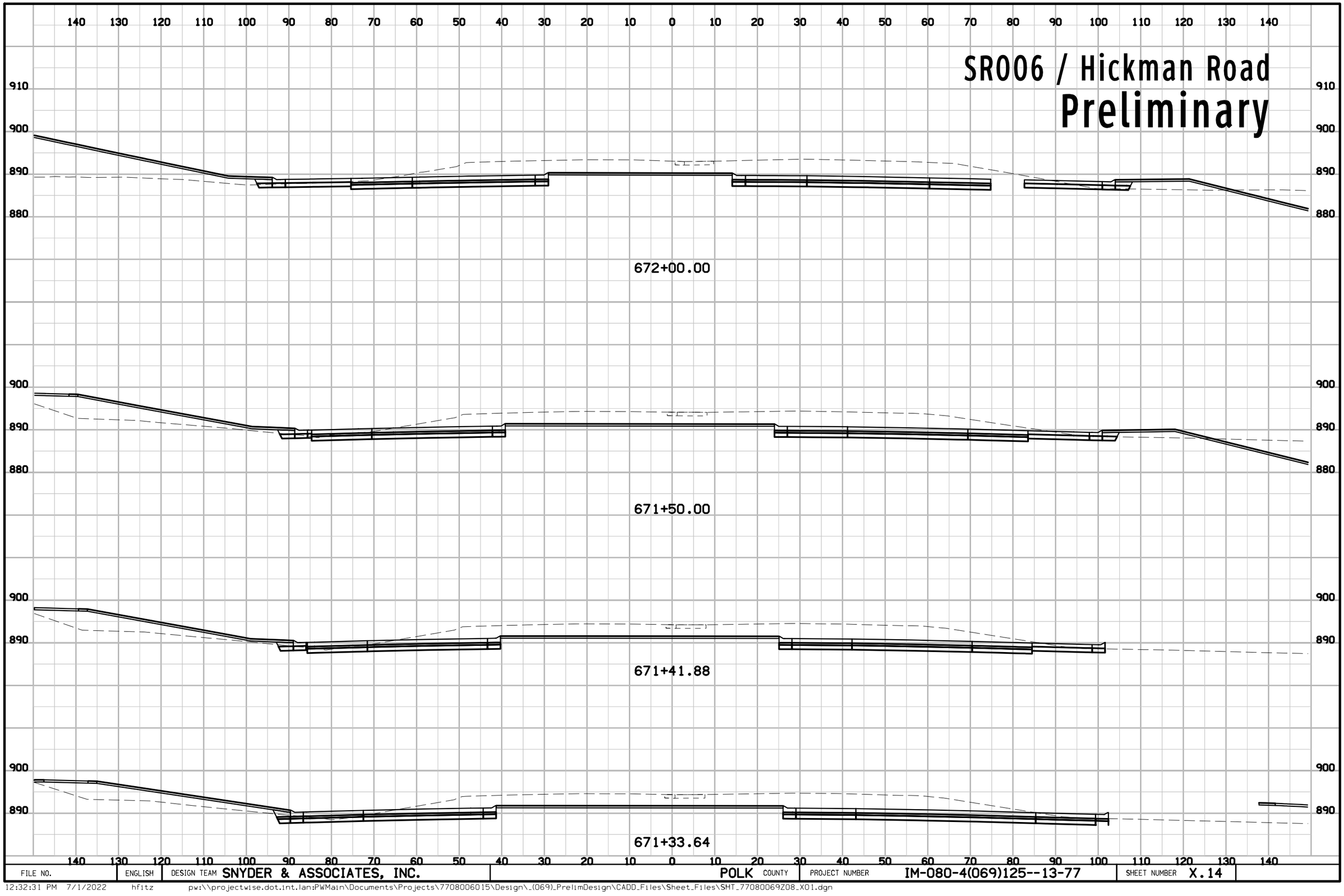
SR006 / Hickman Road

Preliminary



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SR006 / Hickman Road

Preliminary

140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140

910
900
890
880

672+74.83

672+60.90

672+50.00

FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER X.15

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SR006 / Hickman Road

Preliminary

140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140

890

900

890

674+00.00

900

890

673+50.00

900

890

673+36.23

900

890

673+00.00

140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140

FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER X.16

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SR006 / Hickman Road

Preliminary

140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140

910
900
890
880

675+00.00

890

674+50.00

890

674+32.03

890

674+18.10

140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140

FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER X.17

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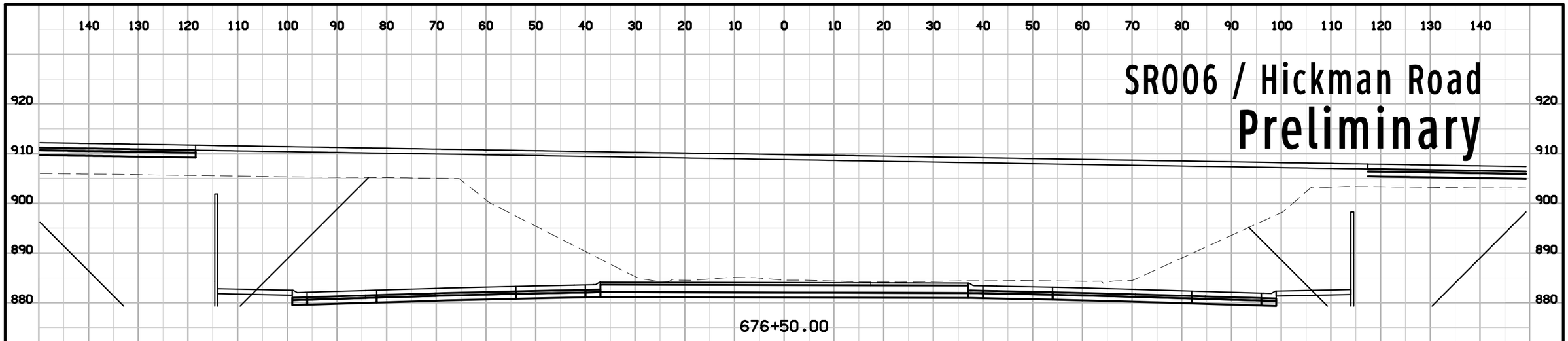
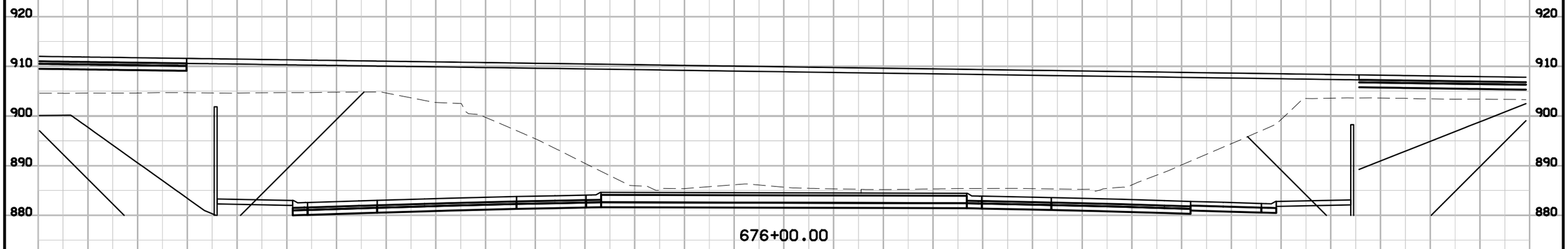
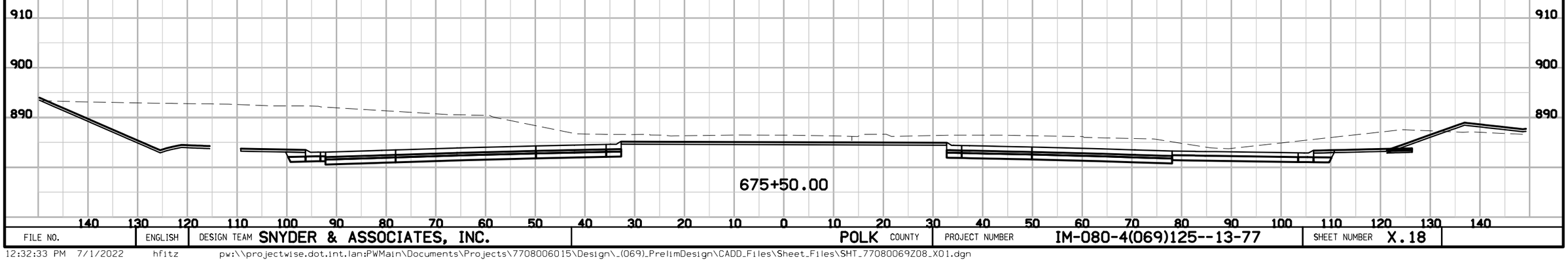
SR006 / Hickman Road

Preliminary







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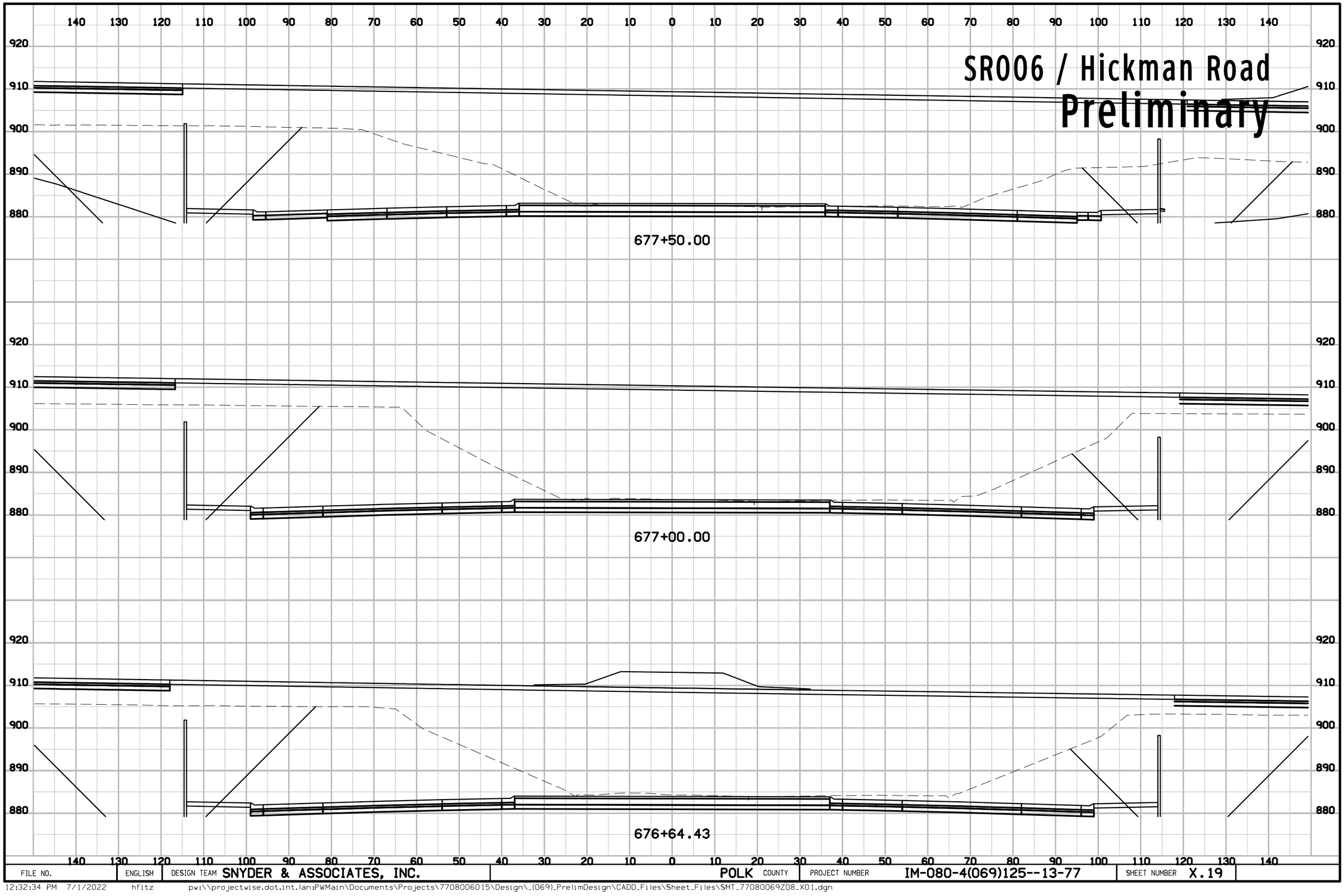
SR006 / Hickman Road

Preliminary



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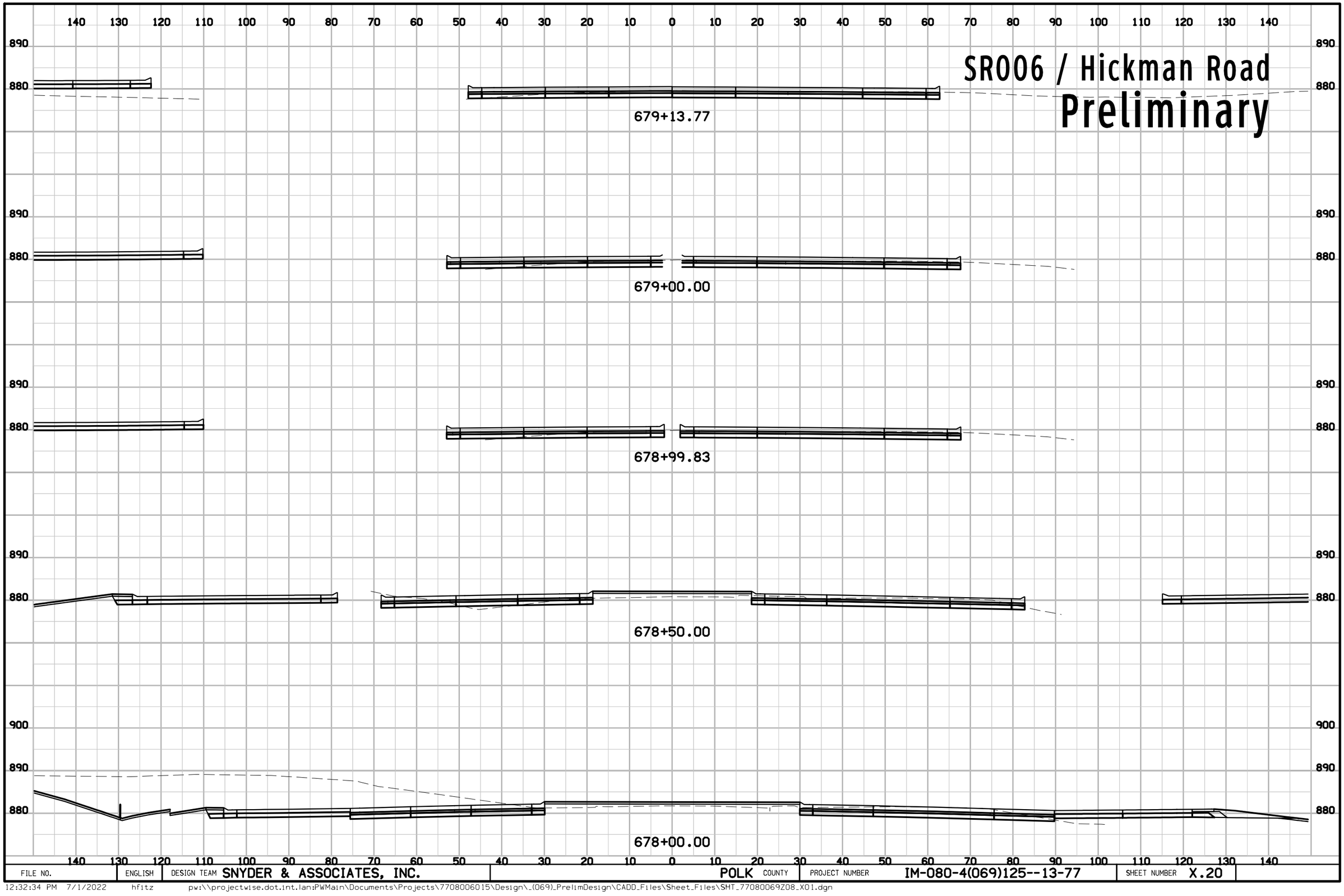
SR006 / Hickman Road

Preliminary



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SR006 / Hickman Road

Preliminary

140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140

890
880
870

680+45.97

890
880

680+00.00

890
880

679+95.64

890
880

679+50.00

140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140

FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER X.21

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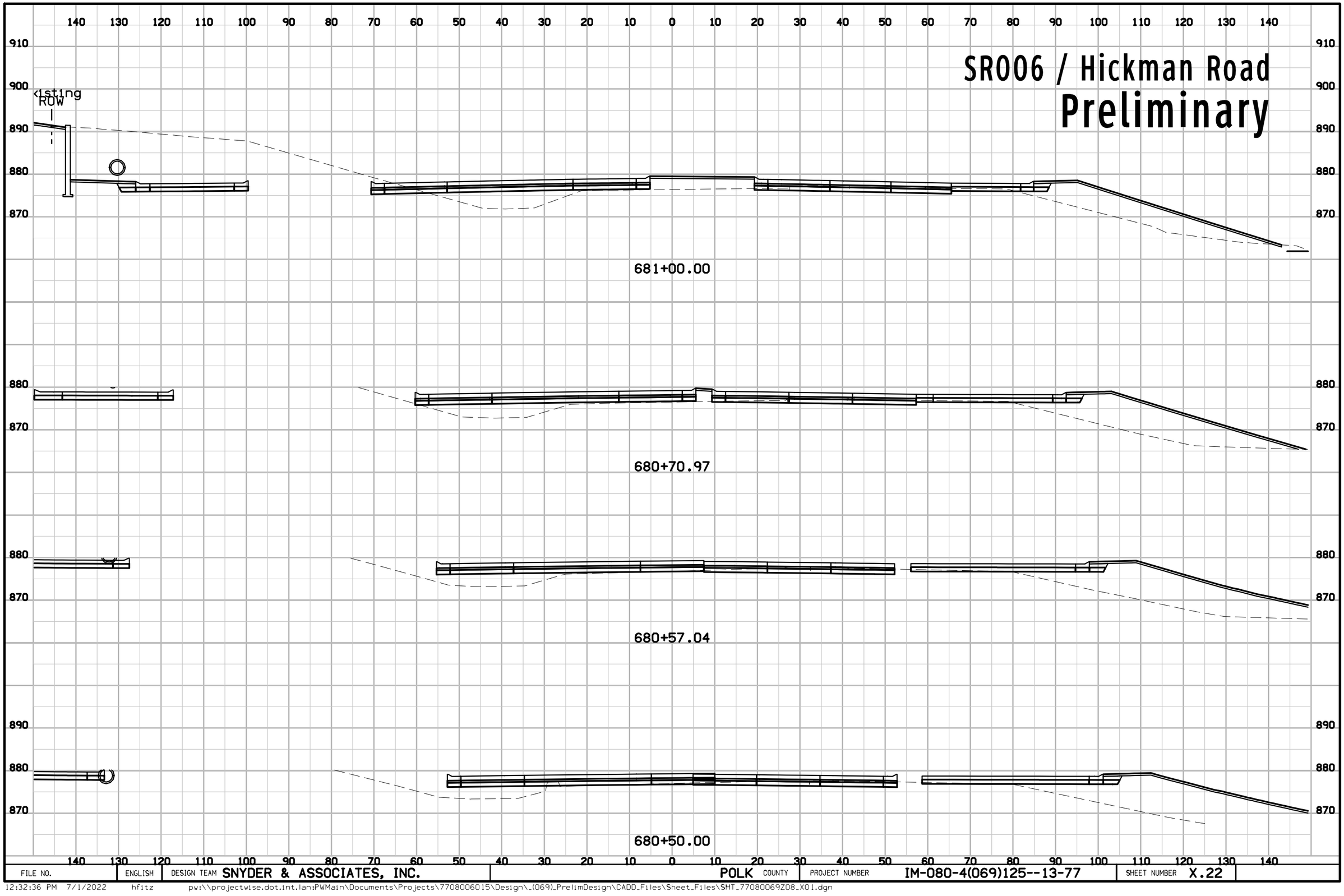
SR006 / Hickman Road

Preliminary



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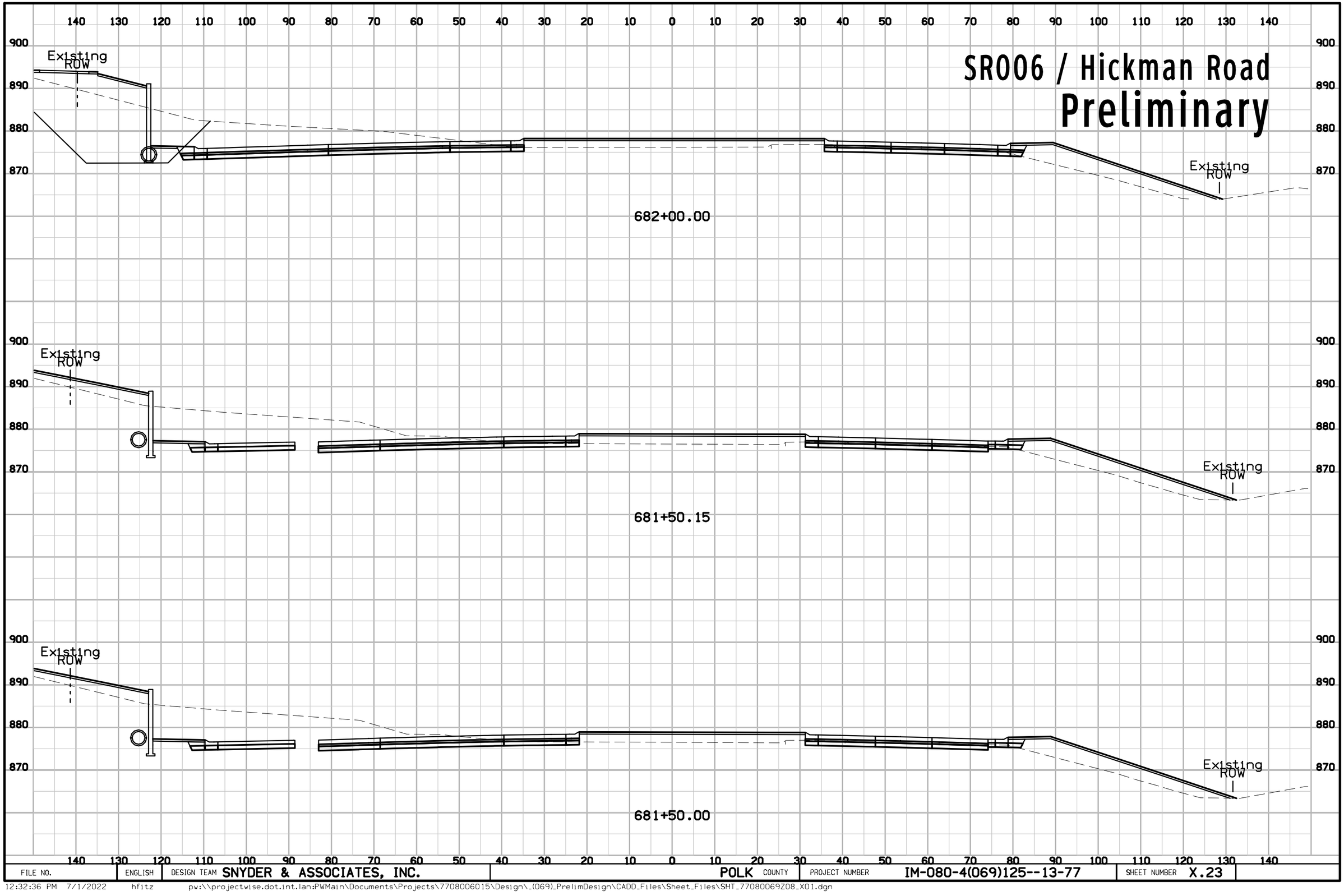
SR006 / Hickman Road

Preliminary



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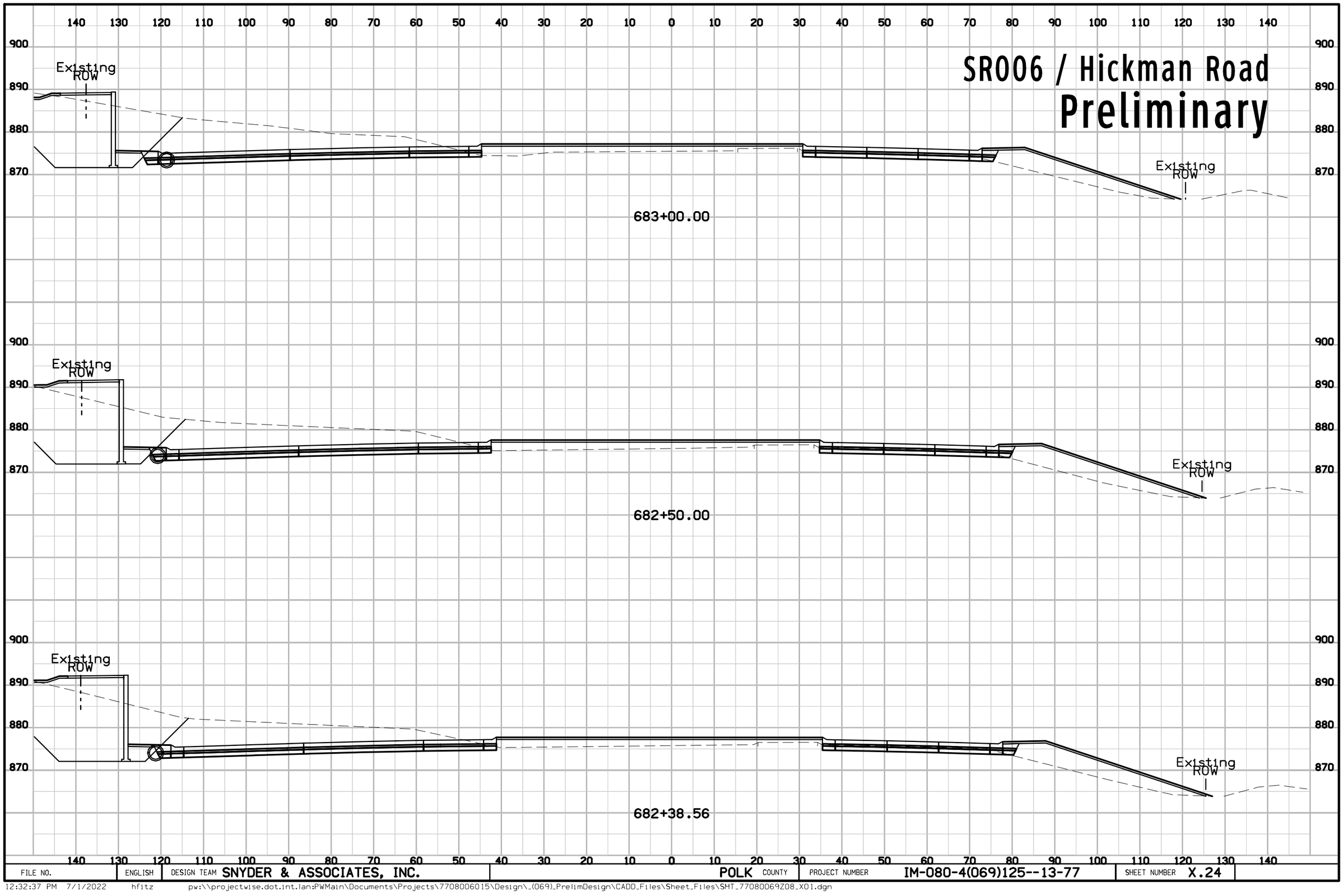
SR006 / Hickman Road

Preliminary



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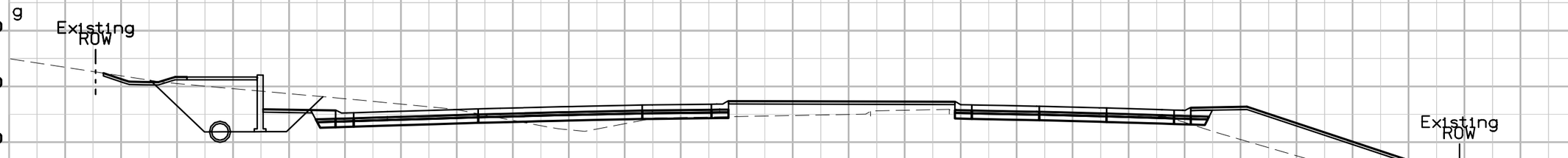
SR006 / Hickman Road

Preliminary

140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140

900
890
880
870



684+50.00



684+00.00



683+50.00

FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER X.25

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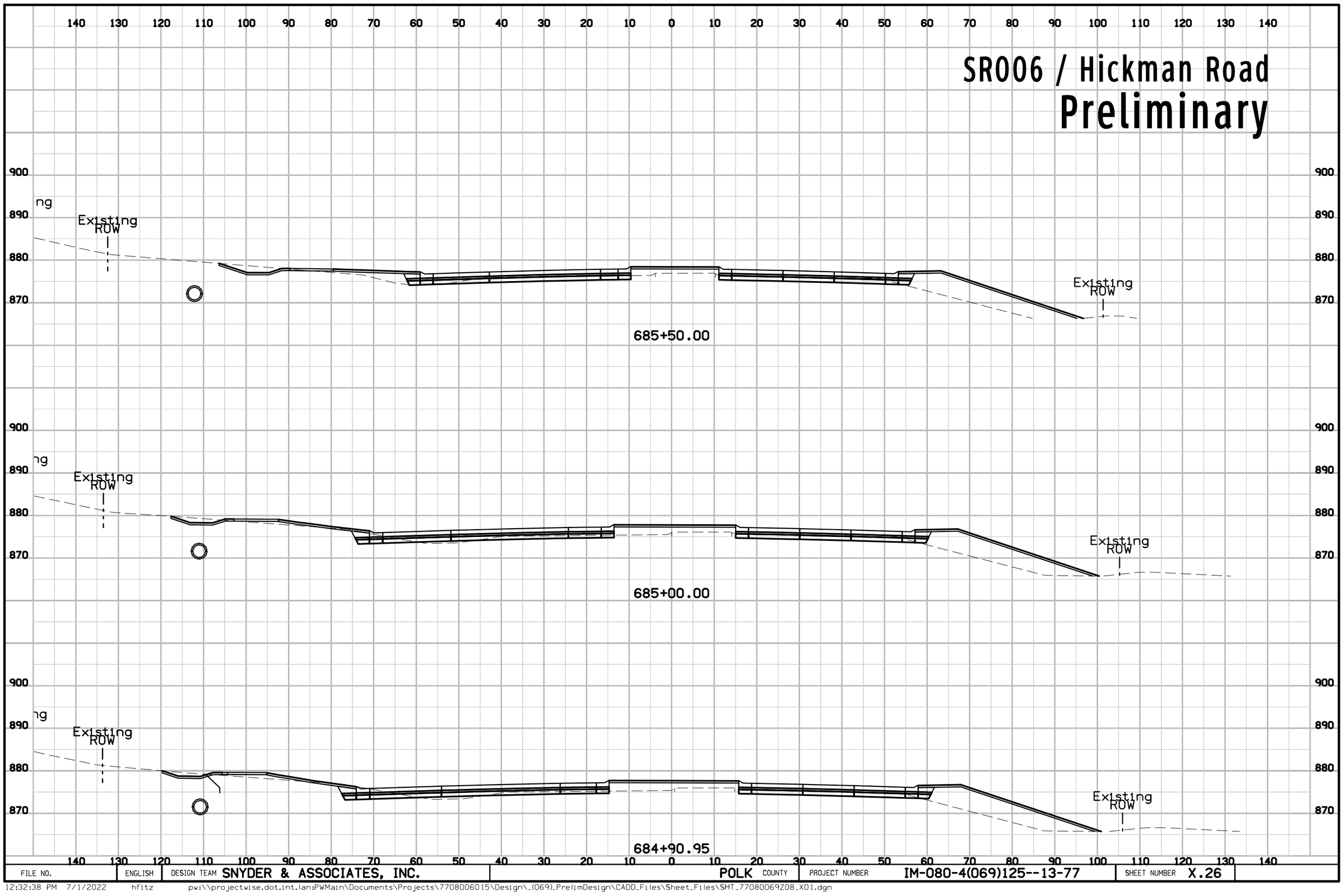
SR006 / Hickman Road

Preliminary



FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER X.26

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SR006 / Hickman Road

Preliminary

140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140

900
890
880
870

Existing ROW

Existing ROW

Existing ROW

686+50.00

686+00.00

685+60.43

FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER X.27

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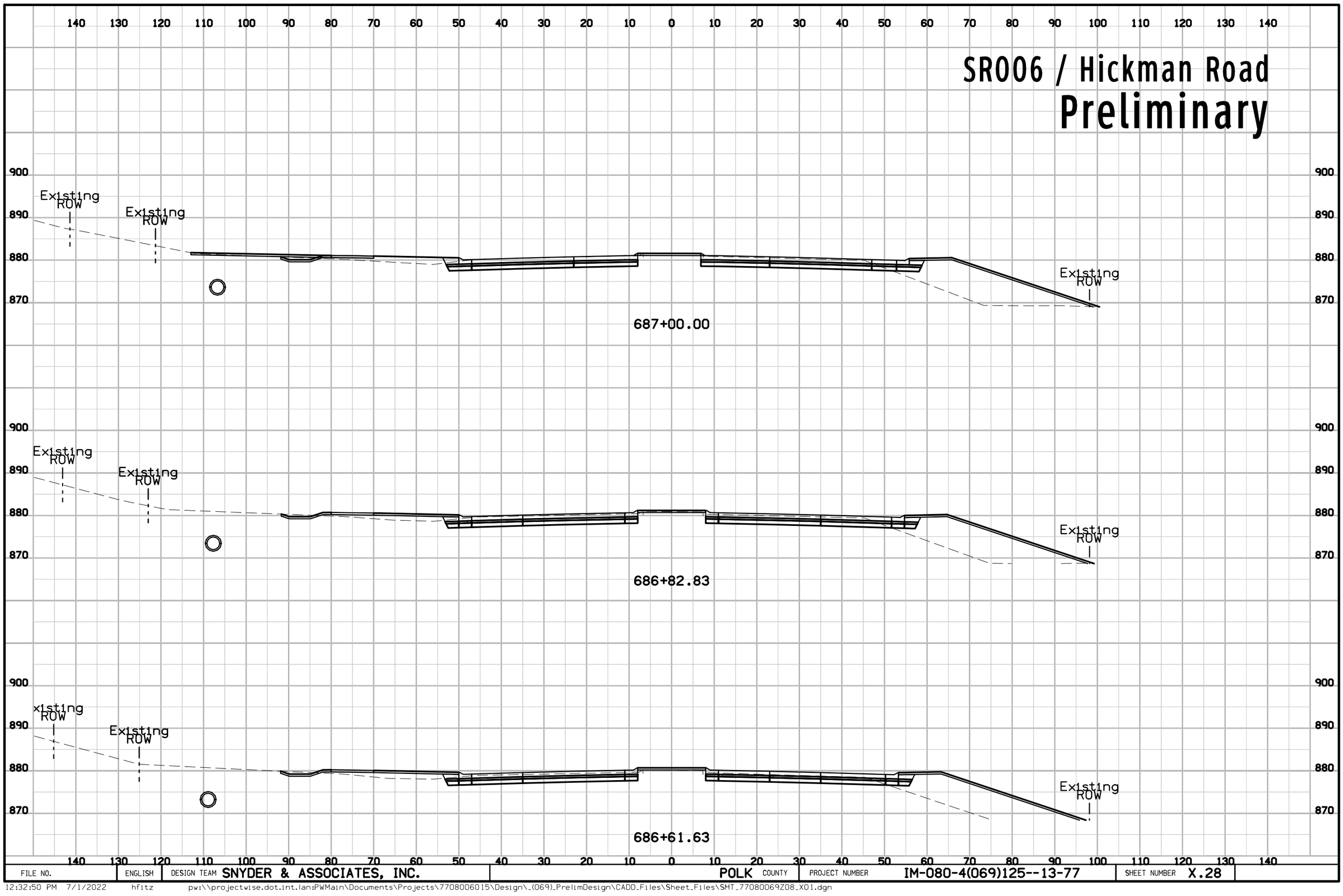
SR006 / Hickman Road

Preliminary



FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER X.28

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SR006 / Hickman Road

Preliminary

140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140

900
890
880

Existing ROW
Existing ROW
Existing ROW

688+50.00

688+00.00

687+50.00

FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER X.29

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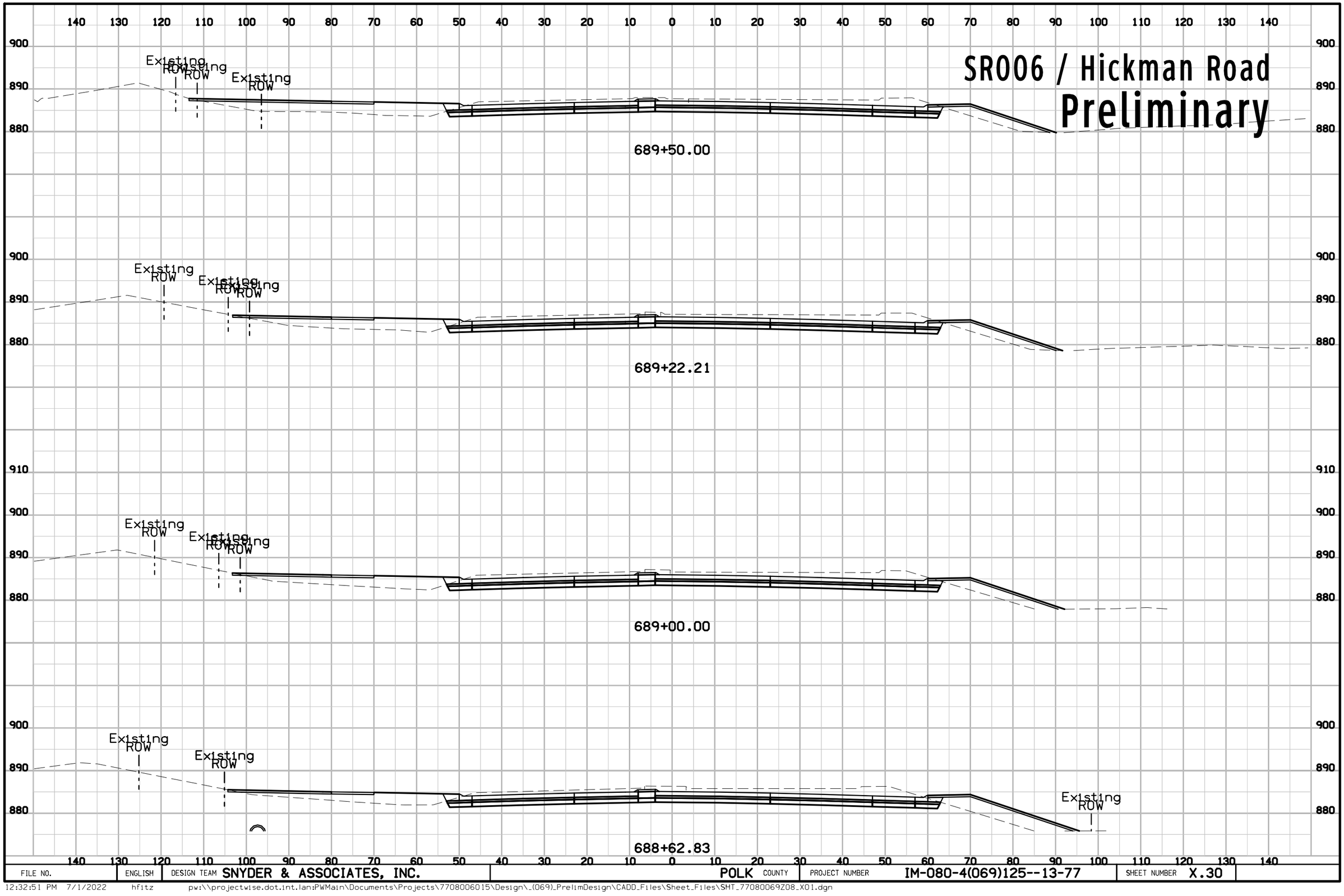
SR006 / Hickman Road

Preliminary



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SR006 / Hickman Road

Preliminary

140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140

910
900
890

Existing ROW
Existing ROW
Existing ROW

690+50.00

910
900
890

Existing ROW
Existing ROW
Existing ROW

690+39.83

900
890

Existing ROW
Existing ROW
Existing ROW

690+00.00

140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140

FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER X.31

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SR006 / Hickman Road

Preliminary

140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140

910
900
890

Existing ROW
Existing ROW
Existing ROW

691+50.00

691+38.83

691+00.00

690+54.83

FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER X.32

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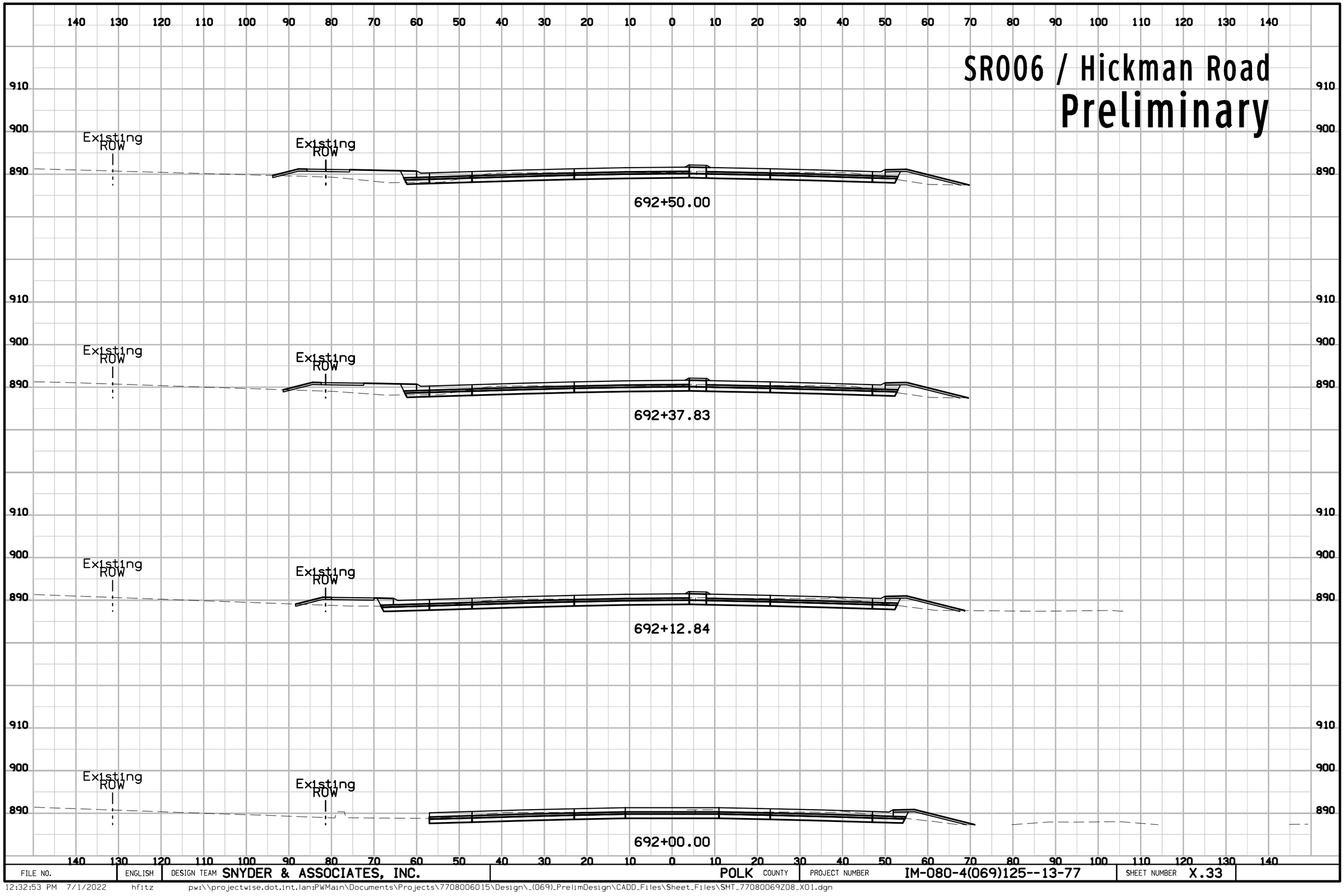
SR006 / Hickman Road

Preliminary



FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER X.33

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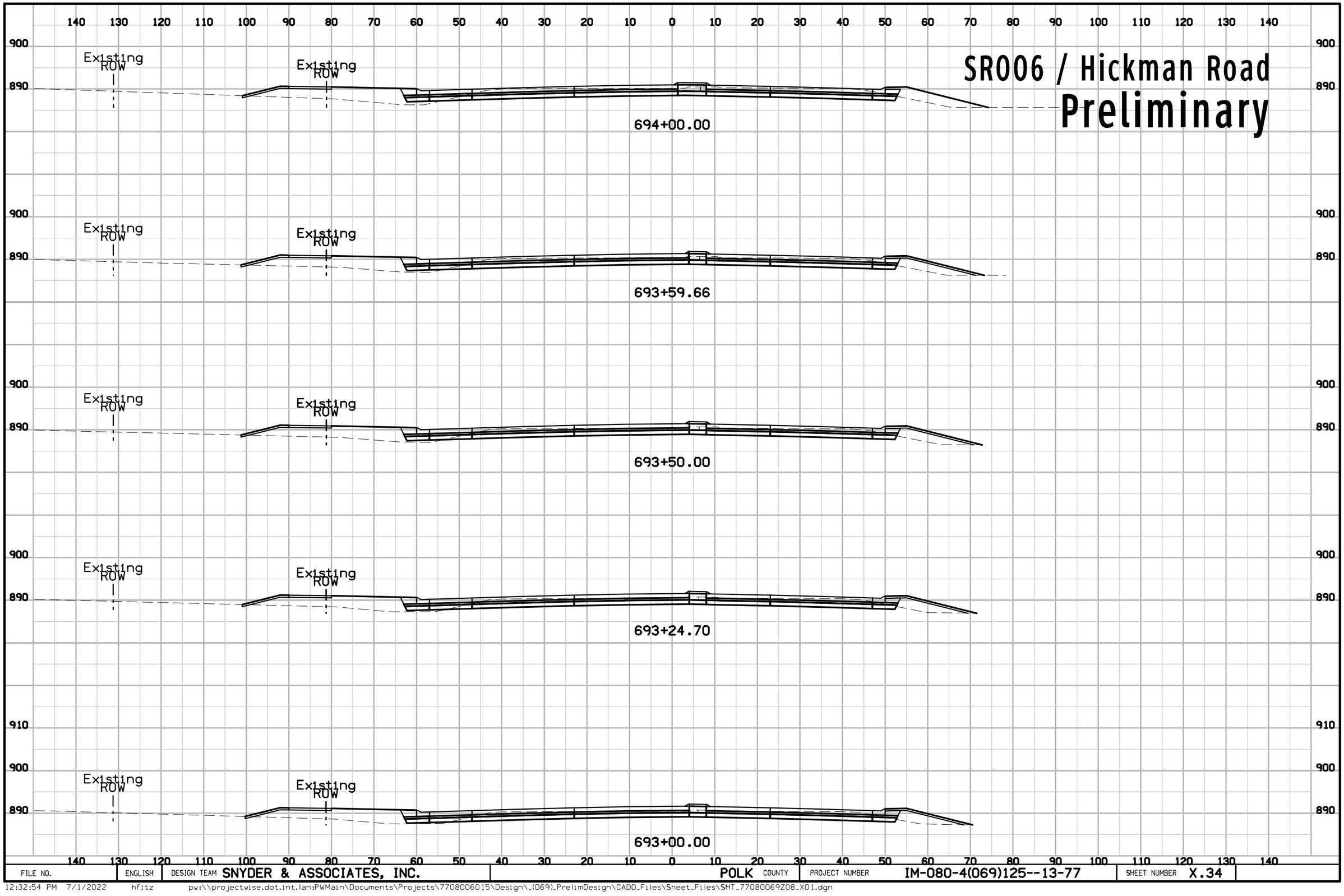
SR006 / Hickman Road

Preliminary



FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER X.34

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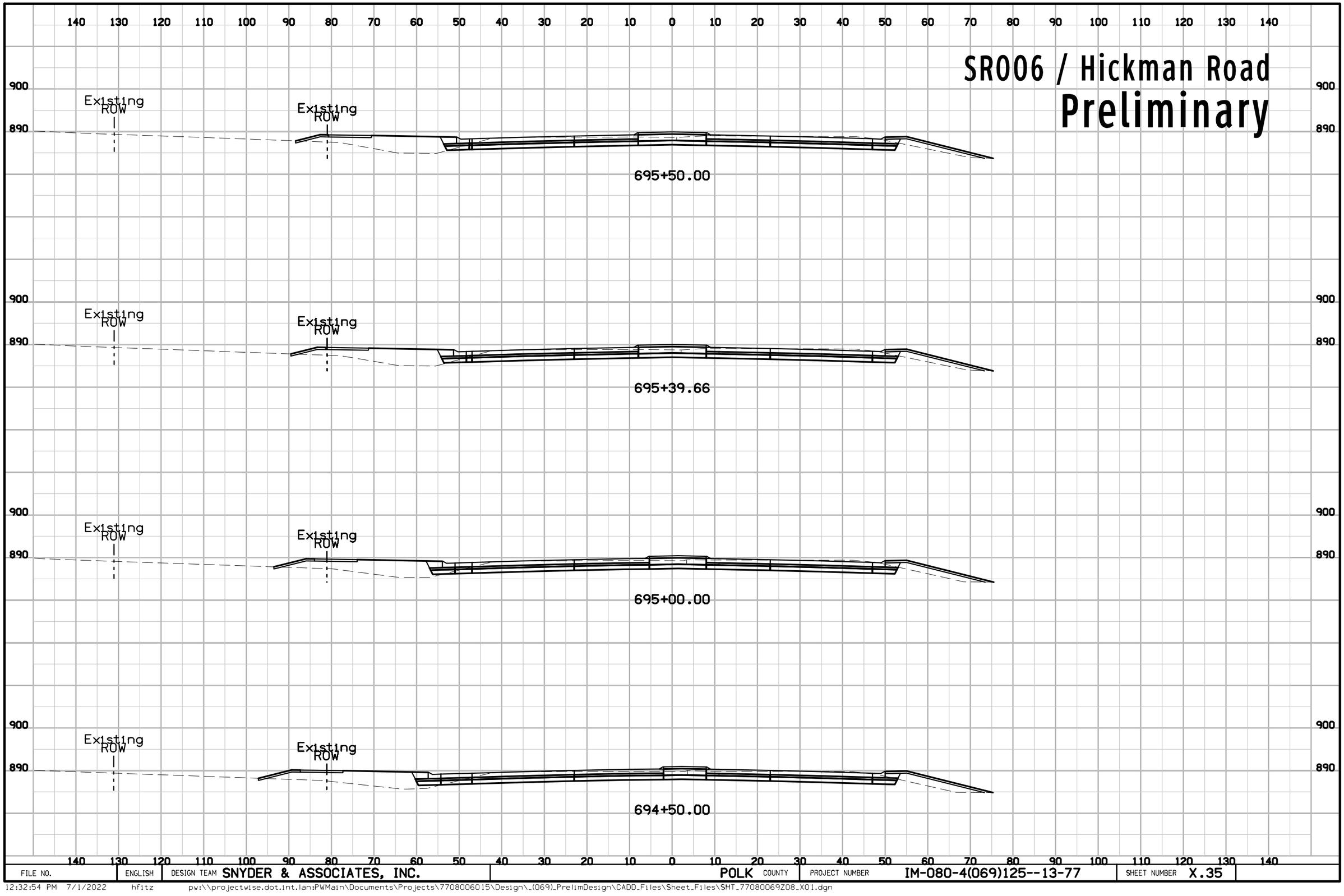
SR006 / Hickman Road

Preliminary



FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER X.35

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SR006 / Hickman Road

Preliminary

140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140

900
890

Existing ROW

Existing ROW

697+00.00

696+50.00

696+00.00

695+63.57

FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER X.36

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NW 111th Street
Preliminary

70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70

885 880 875 870 865

Existing ROW

1686+60.70

880 875 870 865 860

Existing ROW

1686+50.00

880 875 870 865 860

Existing ROW

1686+12.22

70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70

FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER X.37

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NW 111th Street
Preliminary

70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70

885 880 875 870

Existing ROW

Existing ROW

1687+47.50

885 880 875 870

Existing ROW

Existing ROW

1687+00.00

885 880 875 870 865

Existing ROW

Existing ROW

1686+93.30

70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70

FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER X.38

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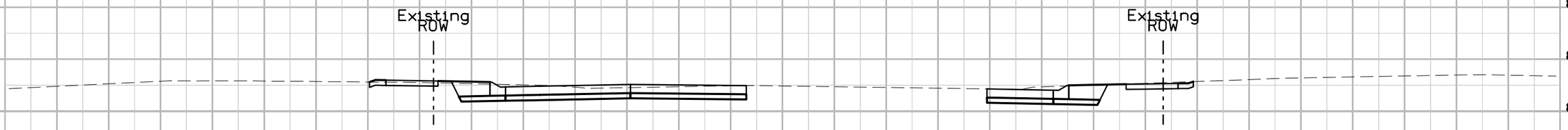
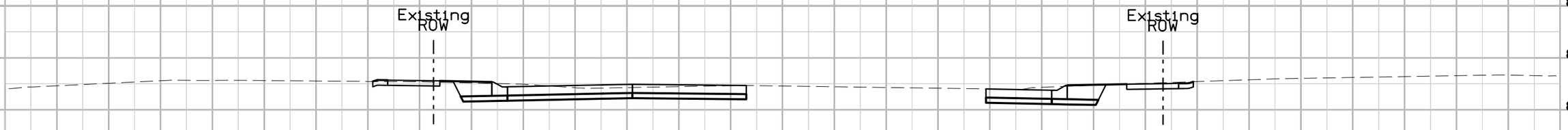
NW 111th Street
Preliminary

70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70

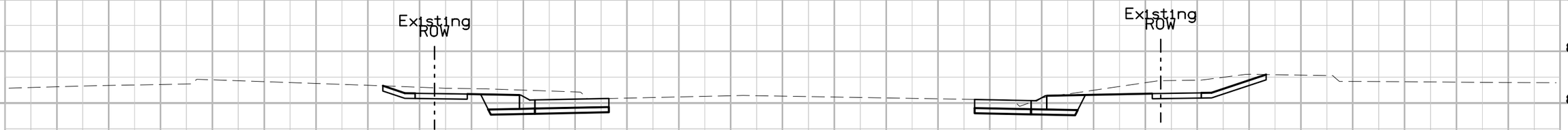
890
885
880
875
870



1687+82.12



1687+79.77



1687+50.00

FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER X.39

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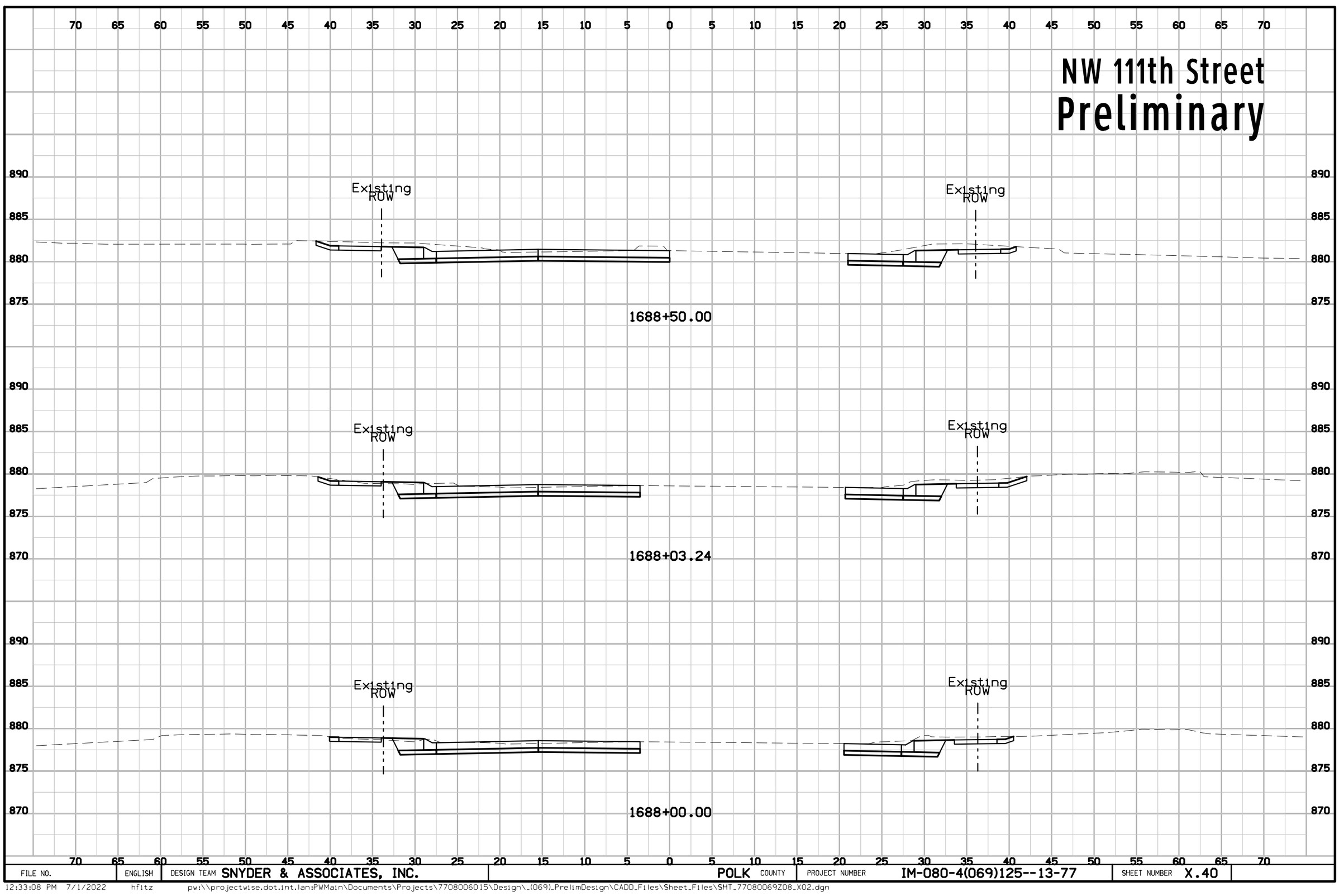
NW 111th Street
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER X.40

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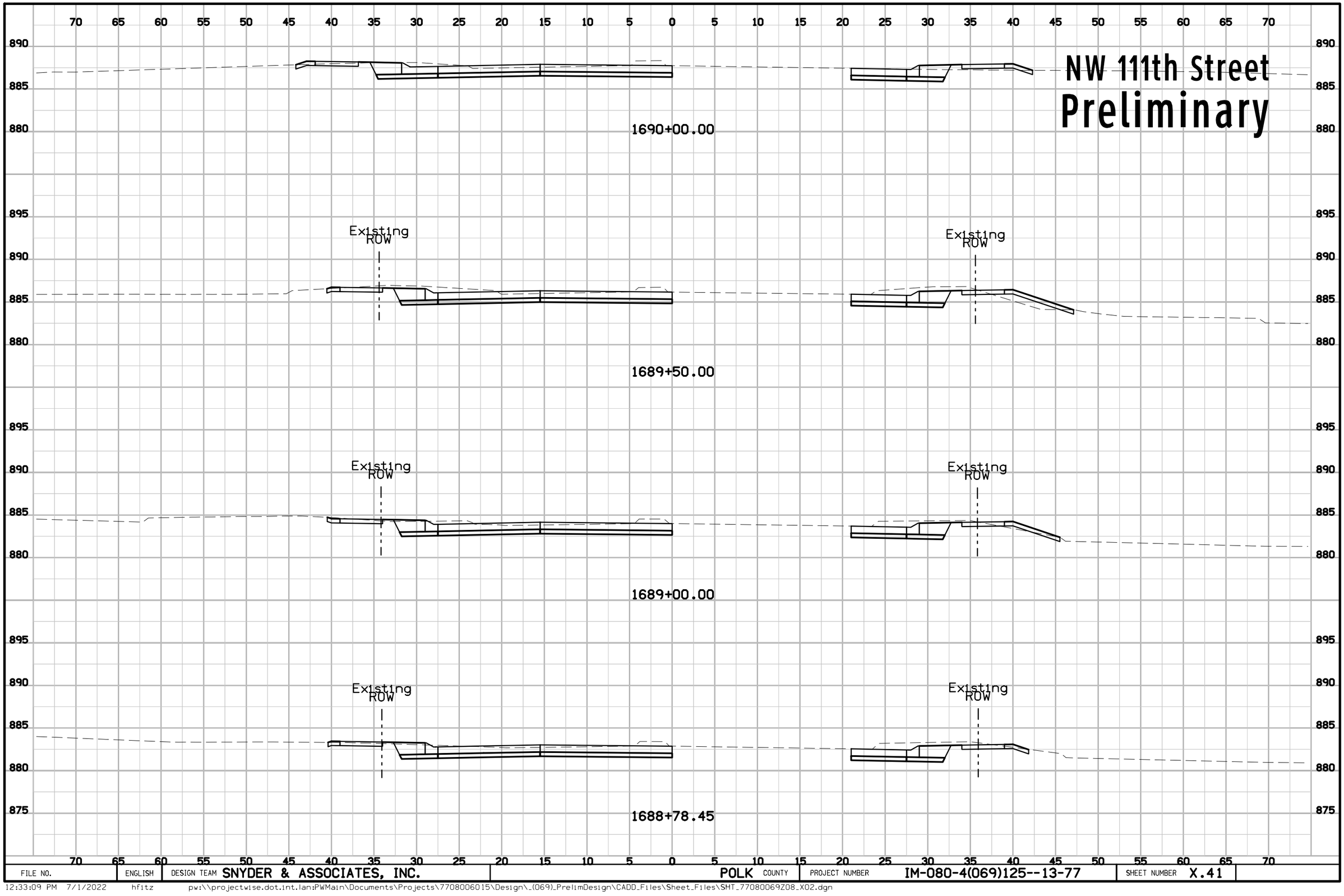
NW 111th Street
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER X.41

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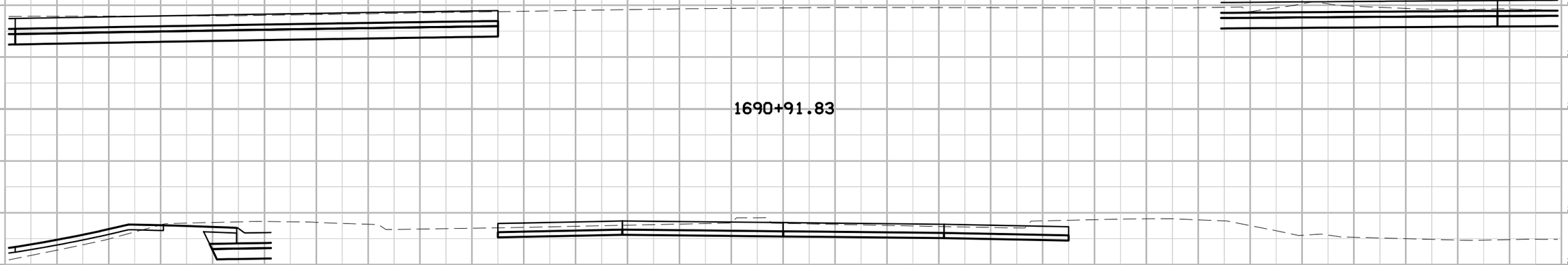
NW 111th Street
Preliminary

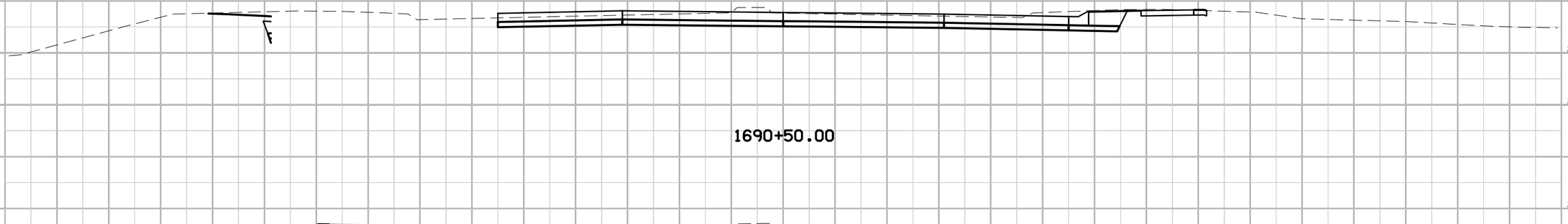
70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70

895
890
885
880

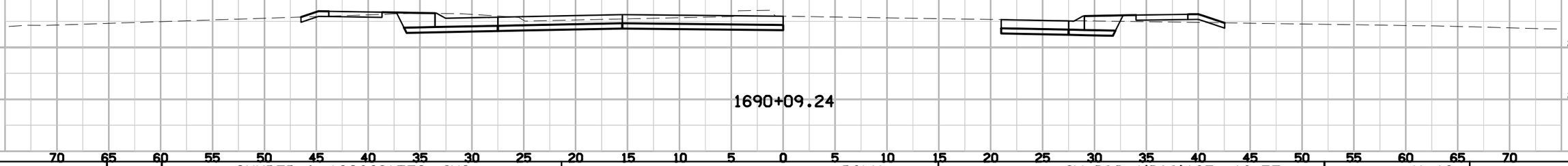
1690+91.83



1690+56.90



1690+50.00



1690+09.24

FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER X.42

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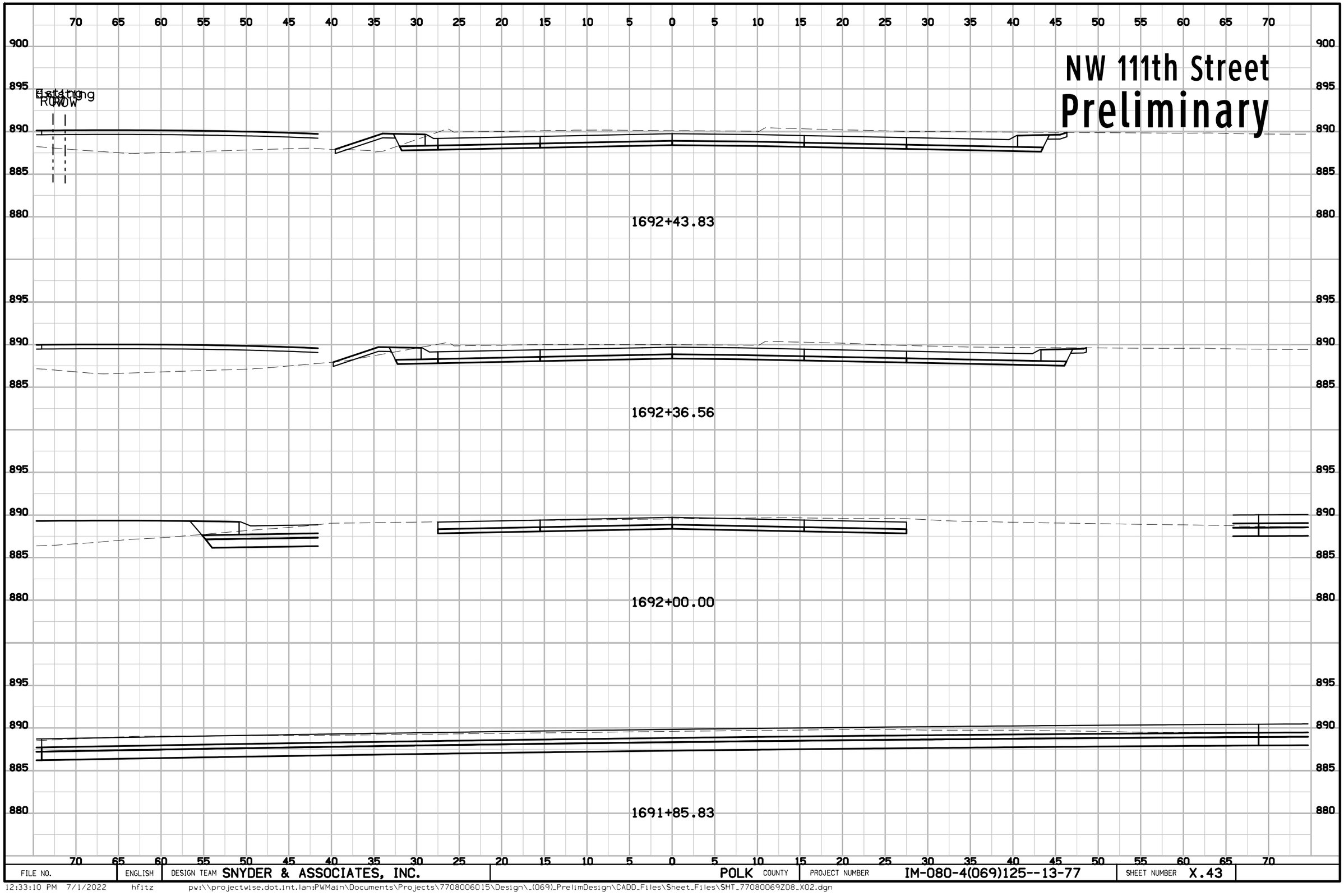
NW 111th Street

Preliminary



FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER X.43

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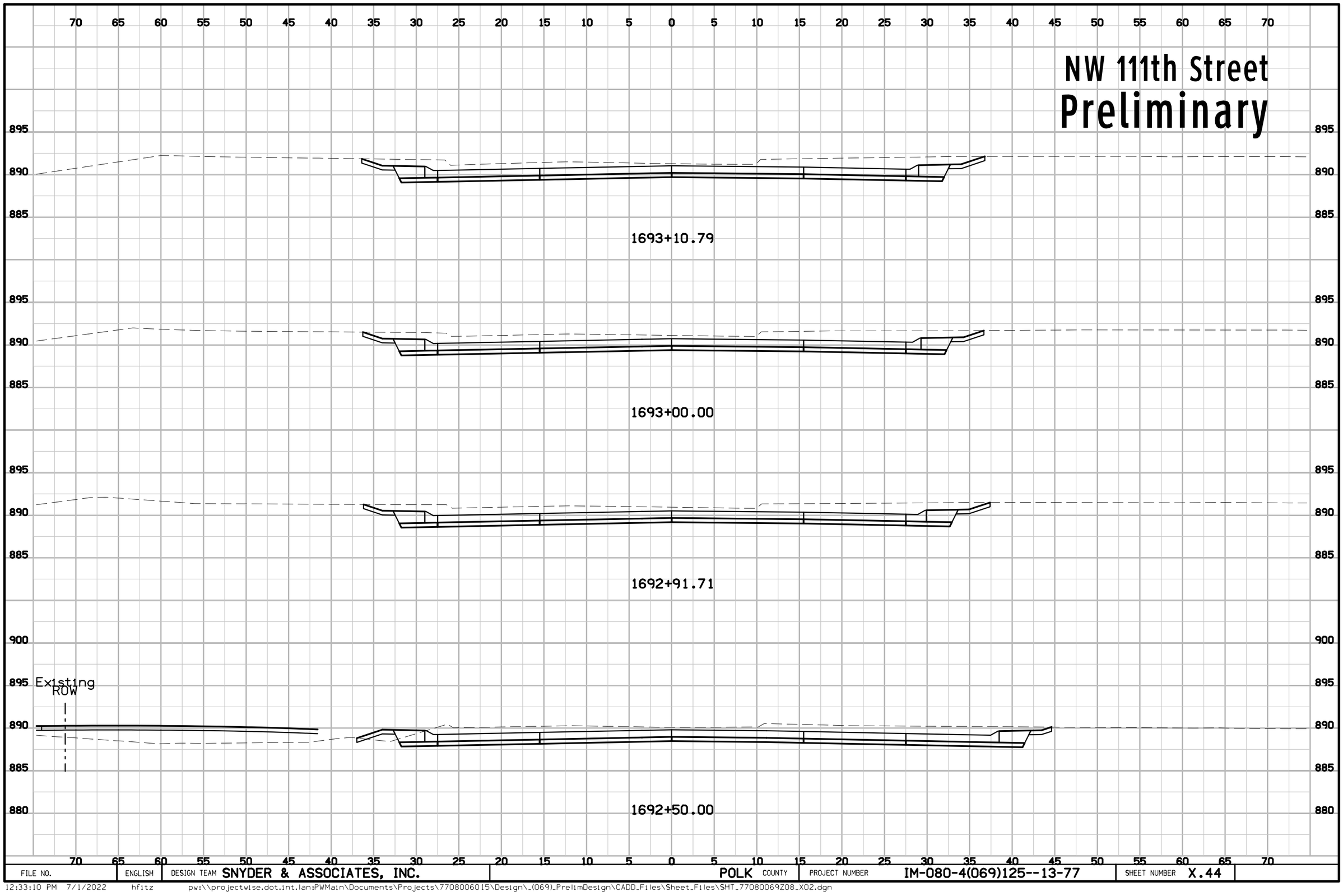
NW 111th Street
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER X.44

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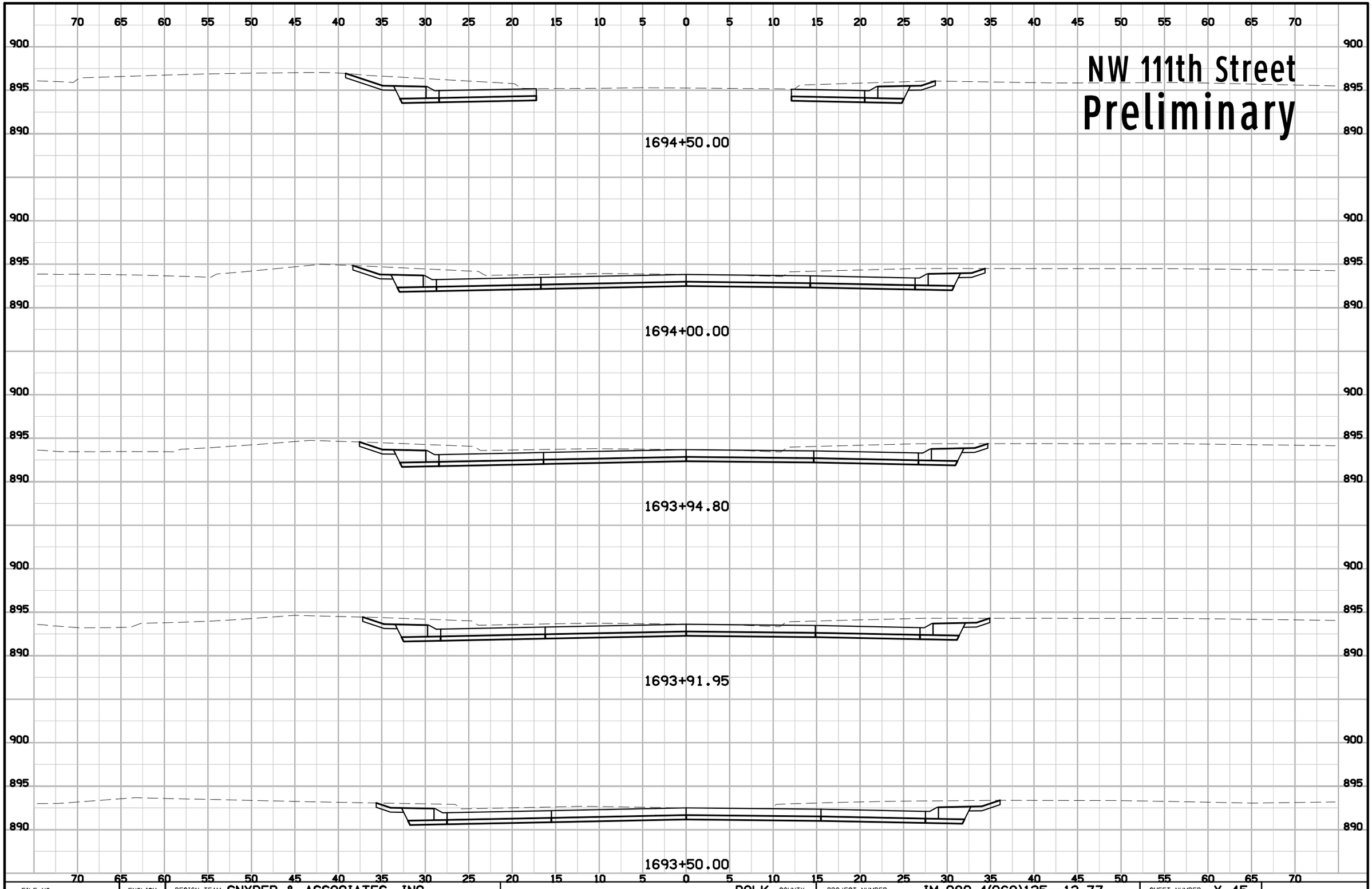
NW 111th Street
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER X.45

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NW 111th Street
Preliminary

70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70

905
900
895

1695+72.82

900
895

1695+50.00

900
895

1695+00.00

900
895
890

1694+88.54

900
895
890

1694+80.90

FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER X.46

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SRUNIV Ramp A
Preliminary

70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70

940
935

1369+00.00

940
935

1368+91.97

940
935

1368+85.30

940 ng
935

1368+50.00

70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70

FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER Y.1

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SRUNIV Ramp A
Preliminary

70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70

940
935
930

Existing ROW

1369+74.88

940
935
930

Existing ROW

1369+51.97

940
935
930

Existing ROW

1369+50.00

940
935
930

70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70

FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER Y.2

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SRUNIV Ramp A
Preliminary

70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70

940
935
930

Existing ROW

1371+00.00

940
935
930

Existing ROW

1370+50.00

940
935
930
925

Existing ROW

1370+00.00

70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70

FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER Y.3

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SRUNIV Ramp A
Preliminary

70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70

940
935
930

1372+00.00

940
935
930
925

sting
OW

1371+62.42

940
935
930
925

Existing
ROW

1371+50.00

70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70

FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER Y.4

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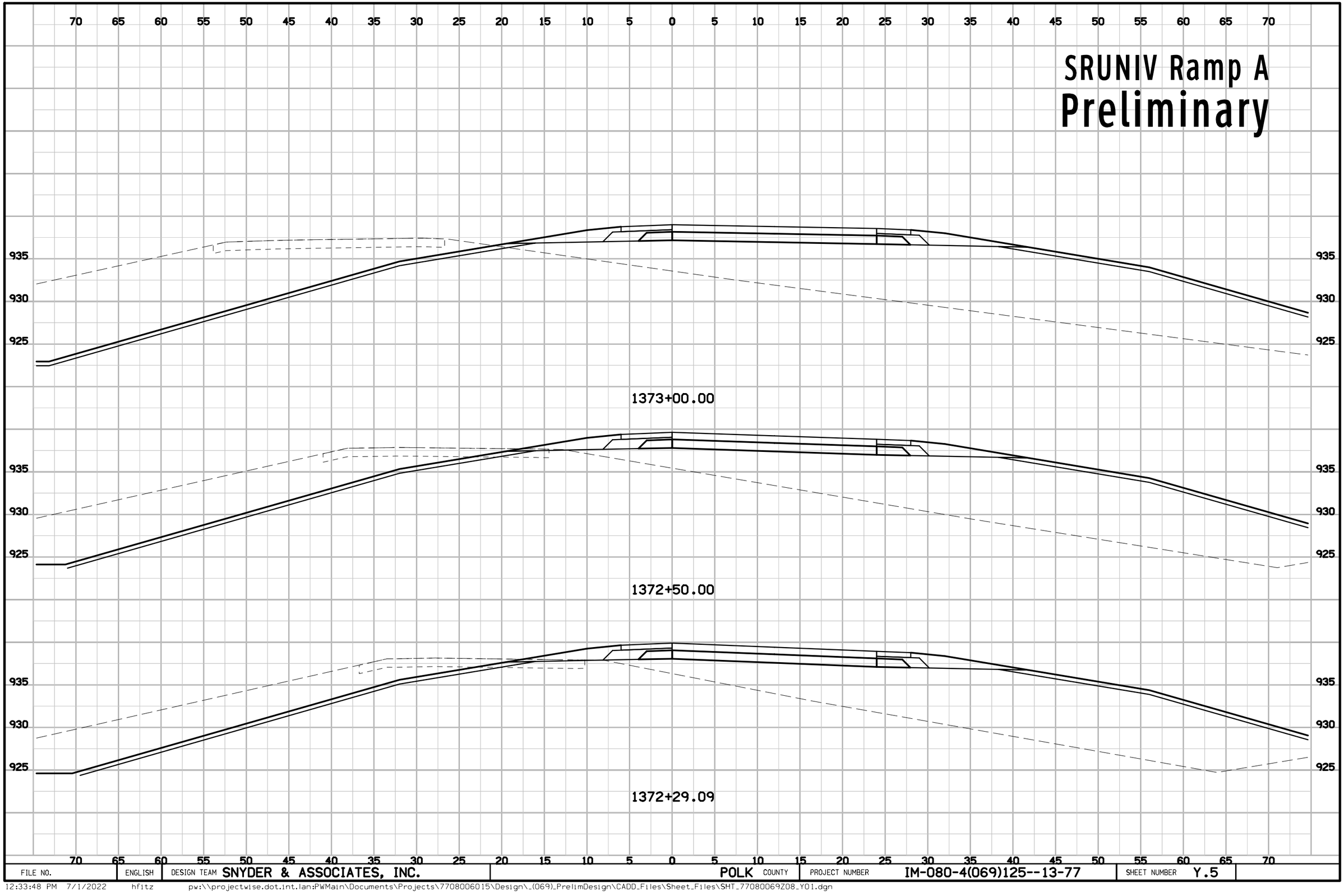
SRUNIV Ramp A
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER Y.5

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SRUNIV Ramp A

Preliminary

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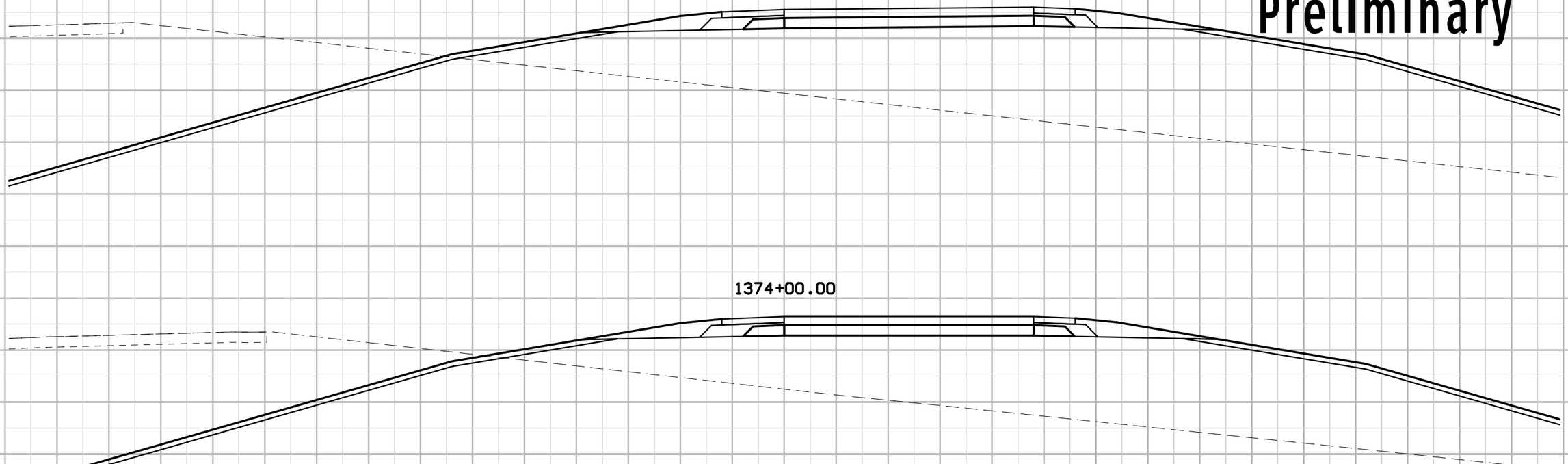
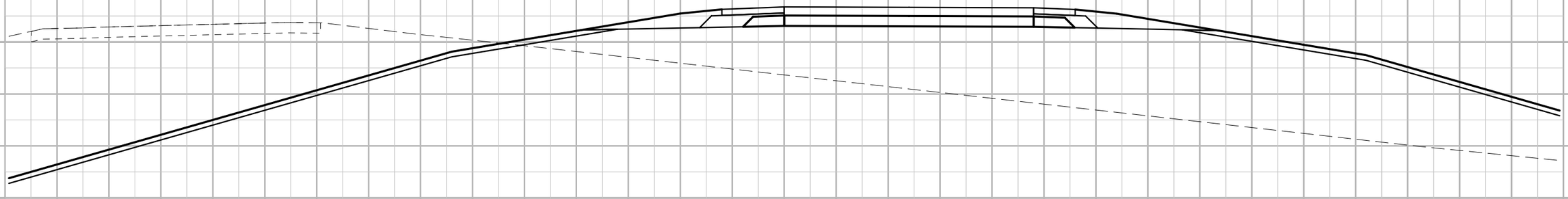
935 930 925 920 915

1374+00.00



1373+62.42



1373+50.00

FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER Y.6

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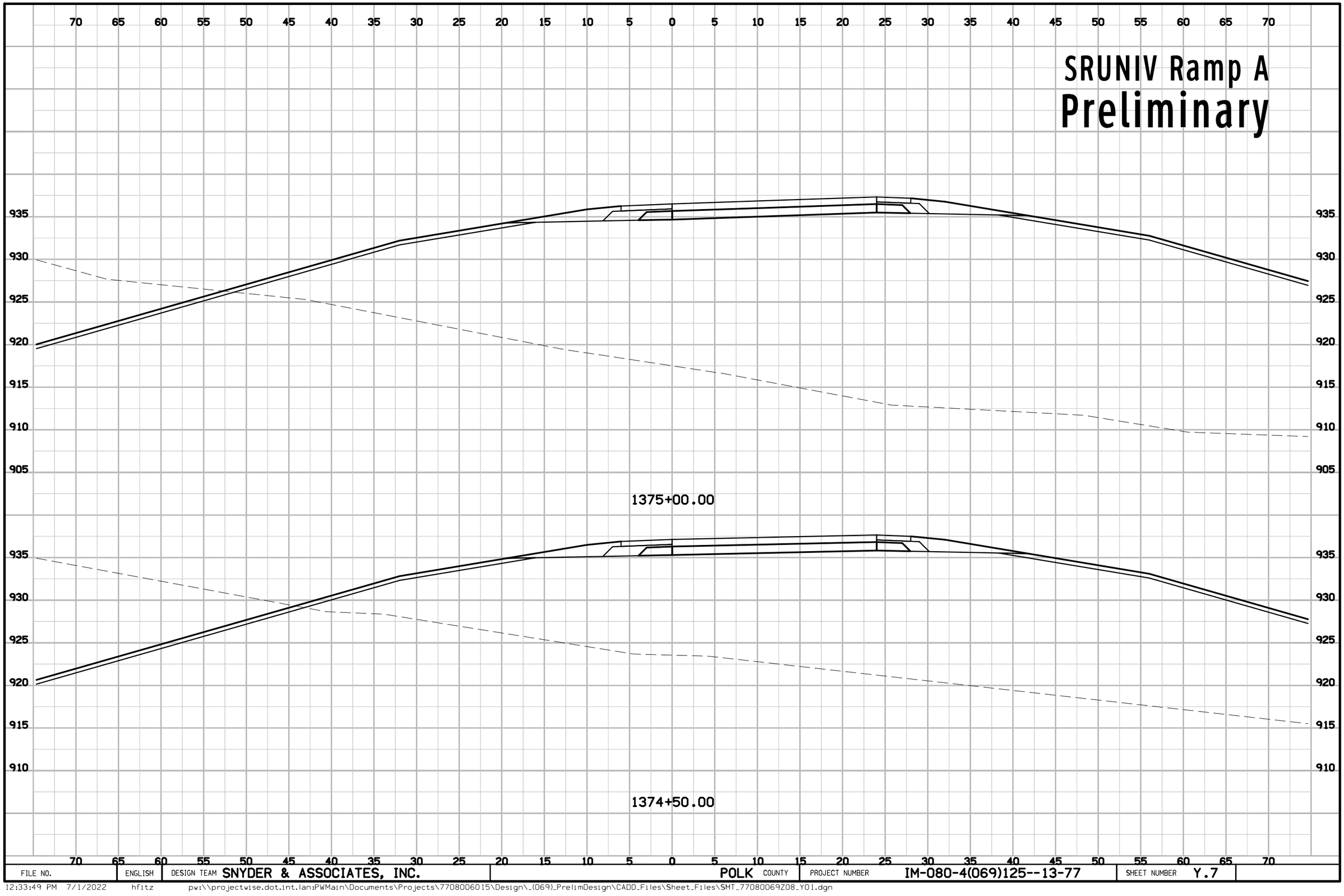
SRUNIV Ramp A

Preliminary



FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER Y.7

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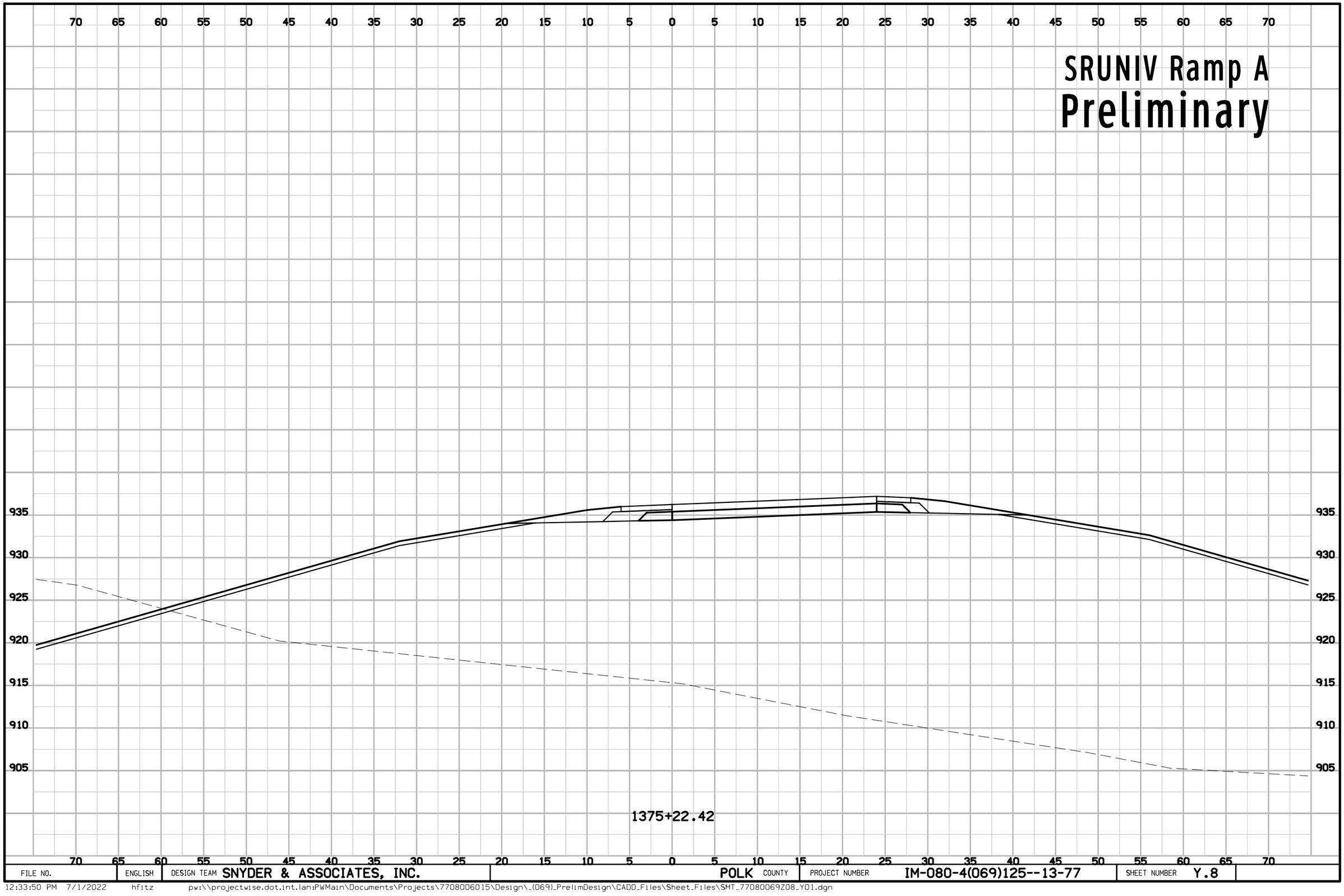
SRUNIV Ramp A

Preliminary



FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER Y.8

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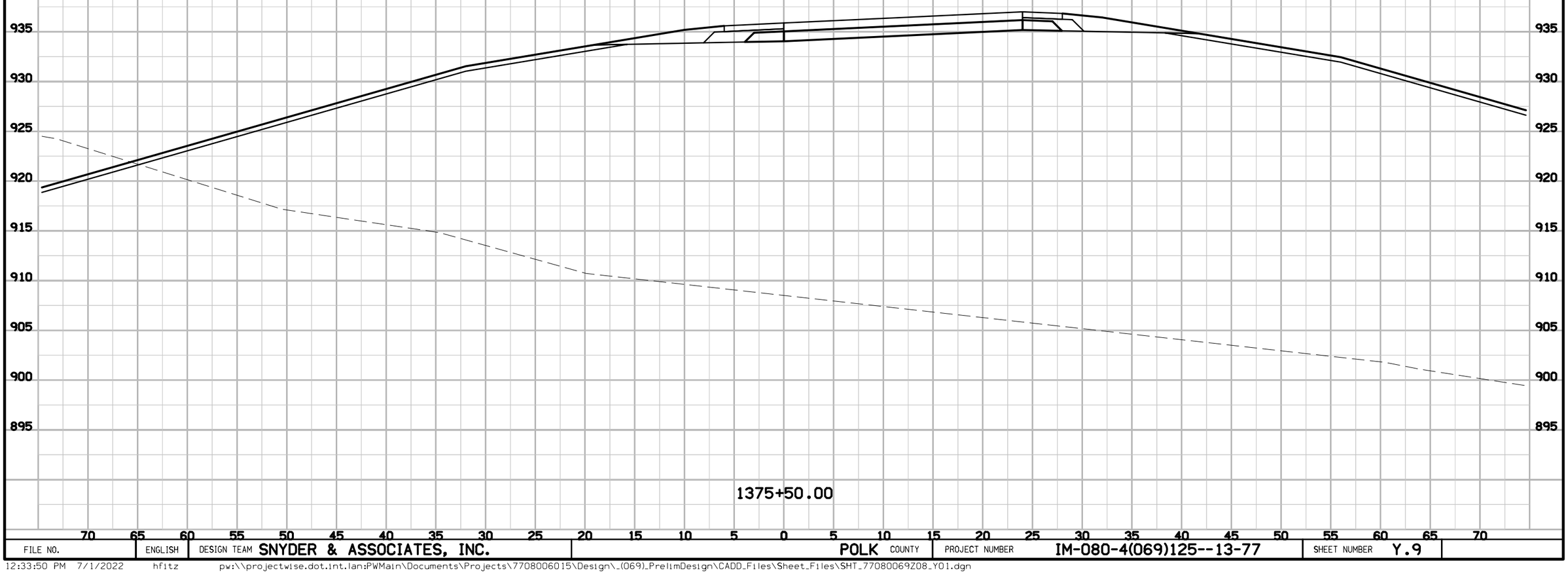
SRUNIV Ramp A
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER Y.9

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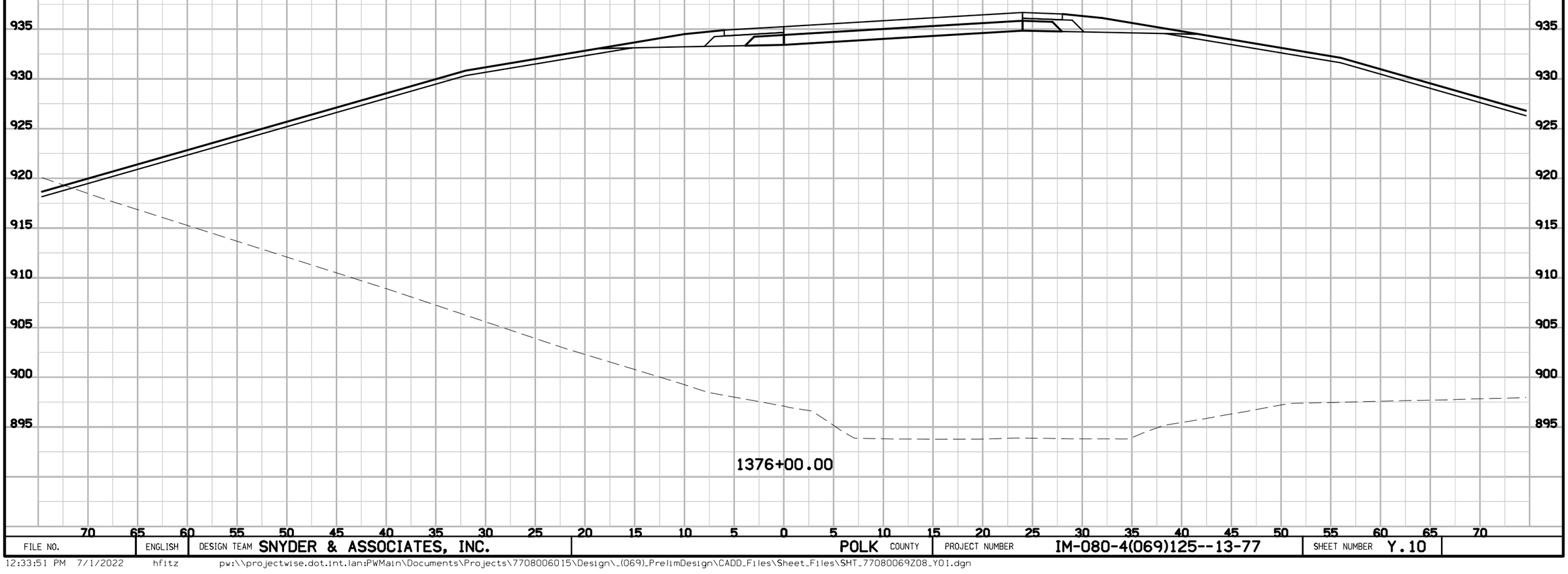
SRUNIV Ramp A
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER Y.10

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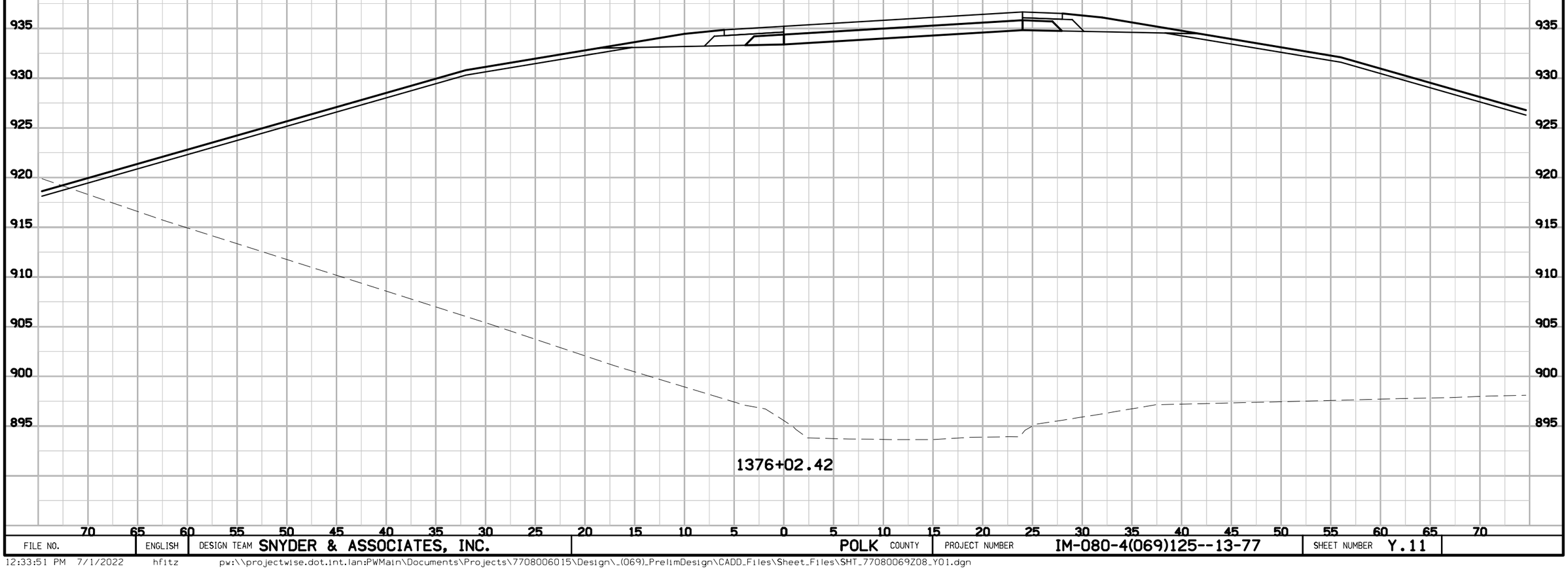
SRUNIV Ramp A
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER Y.11

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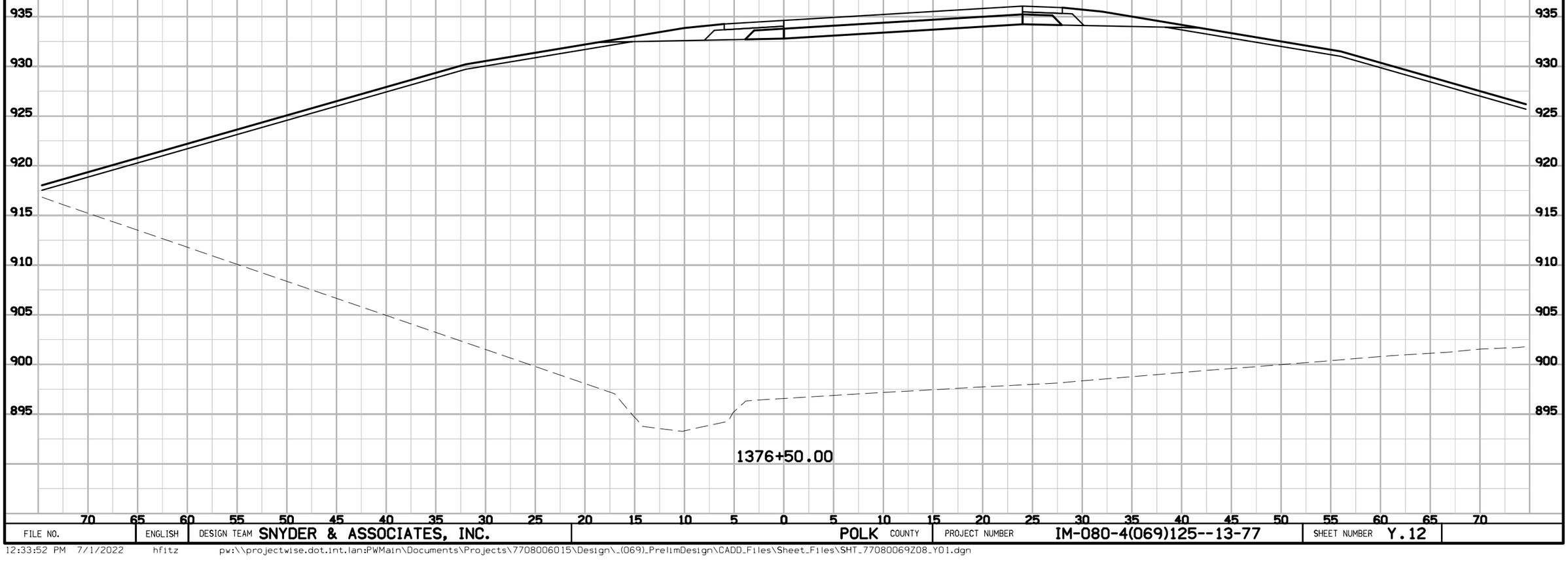
SRUNIV Ramp A
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER Y.12

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SRUNIV Ramp A

Preliminary

1377+00.00

1376+73.82

FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER Y.13

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SRUNIV Ramp A

Preliminary

70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70

930 925 920 915 910 905 900 895

1378+00.00

930 925 920 915 910 905 900

1377+50.00

70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70

FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER Y.14

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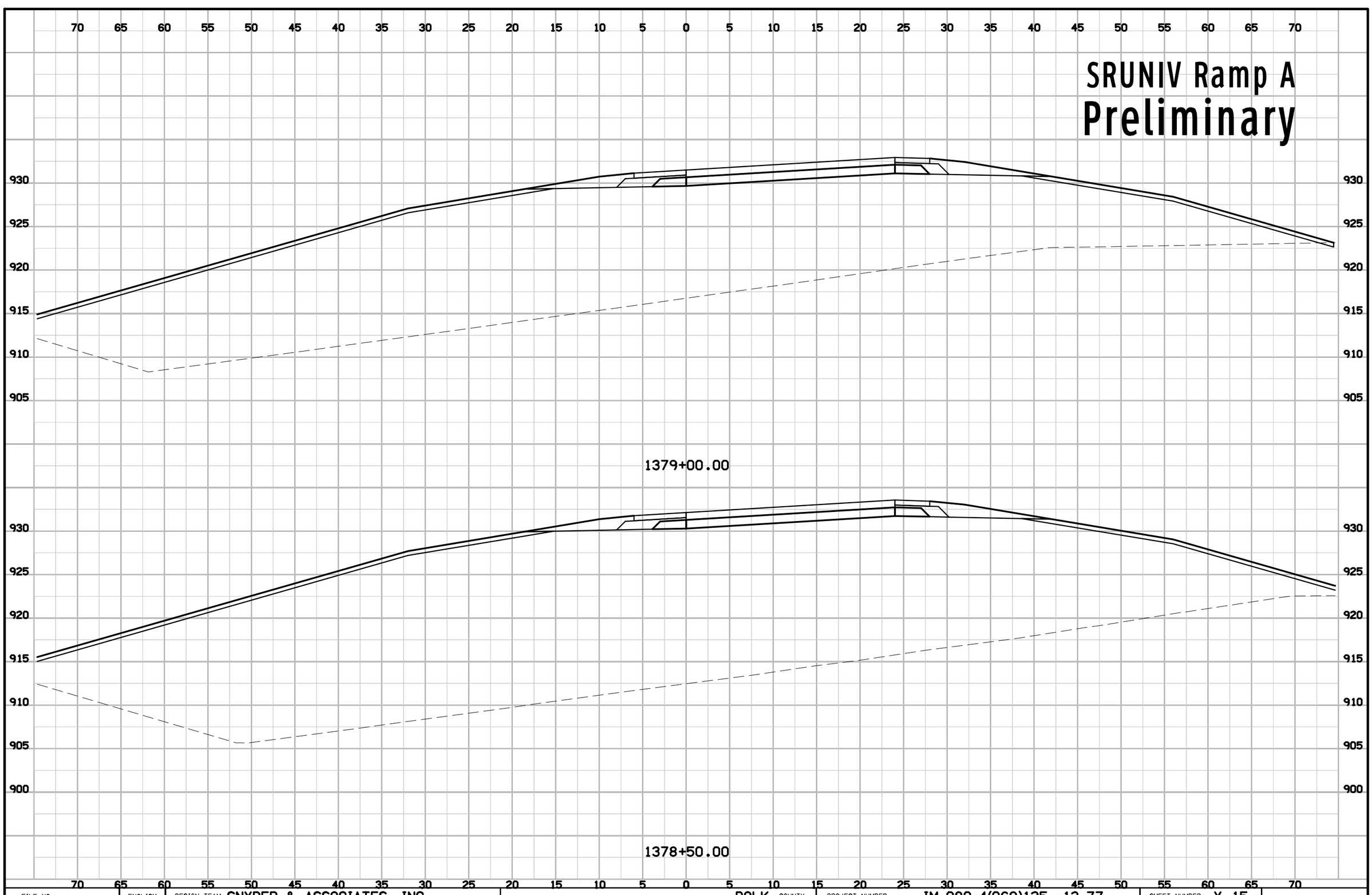
SRUNIV Ramp A
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER Y.15

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SRUNIV Ramp A

Preliminary

1380+50.00

1380+00.00

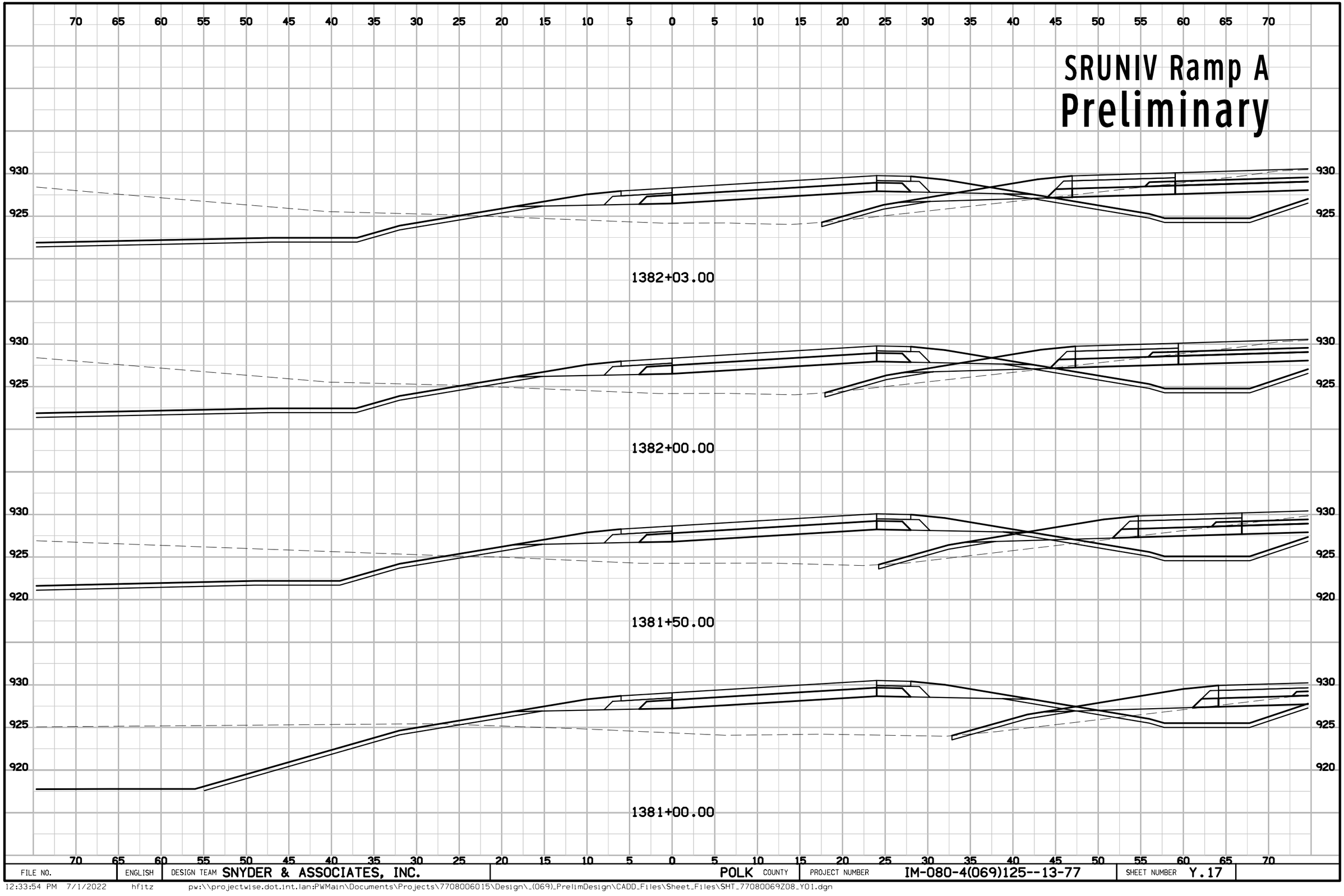
1379+50.00

FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER Y.16

12:33:53 PM 7/1/2022 hfitz pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\7708006015\Design_(069)_PrelimDesign\CADD_Files\Sheet_Files\SHT_77080069Z08_Y01.dgn

SRUNIV Ramp A

Preliminary



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70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70

SRUNIV Ramp A

Preliminary

930

925

1382+75.00

930

925

1382+50.00

70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70

FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER Y.18

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SRUNIV Ramp D

Preliminary

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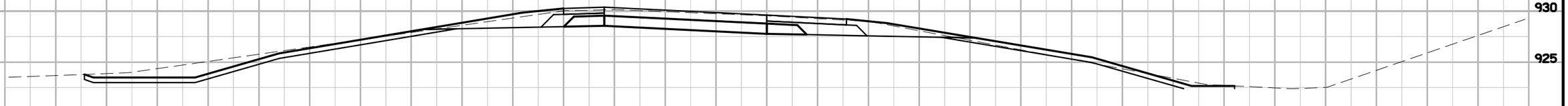
935
930
925



2373+50.00

930
925



2373+00.00

930
925



2372+60.77

70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70

FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER Y.19

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SRUNIV Ramp D
Preliminary

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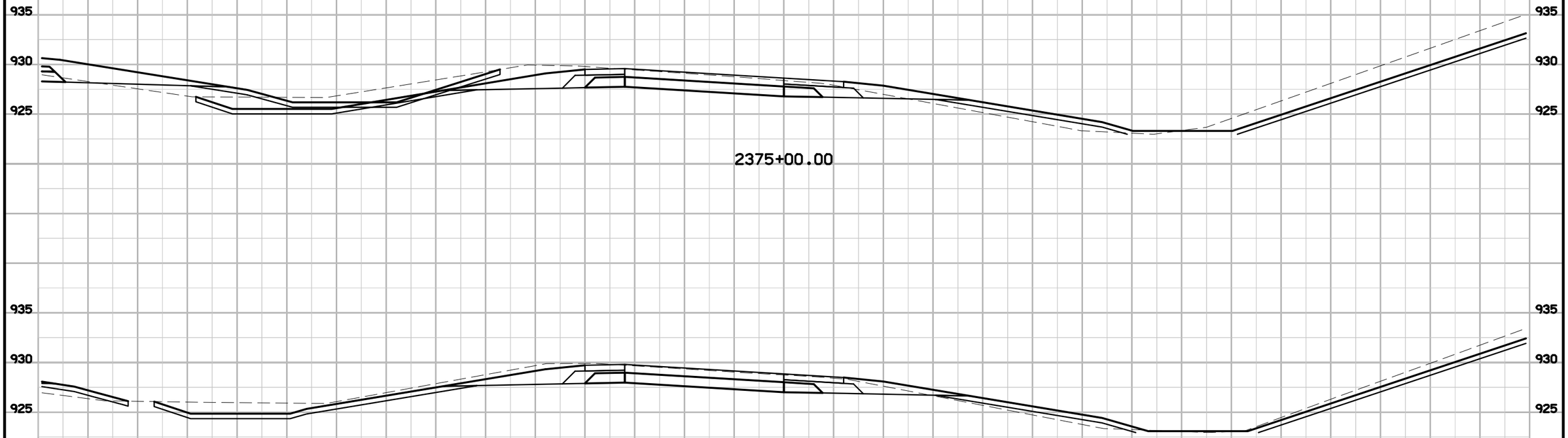
935
930
925

2375+00.00



2374+50.00



2374+00.00

70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70

FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER Y.20

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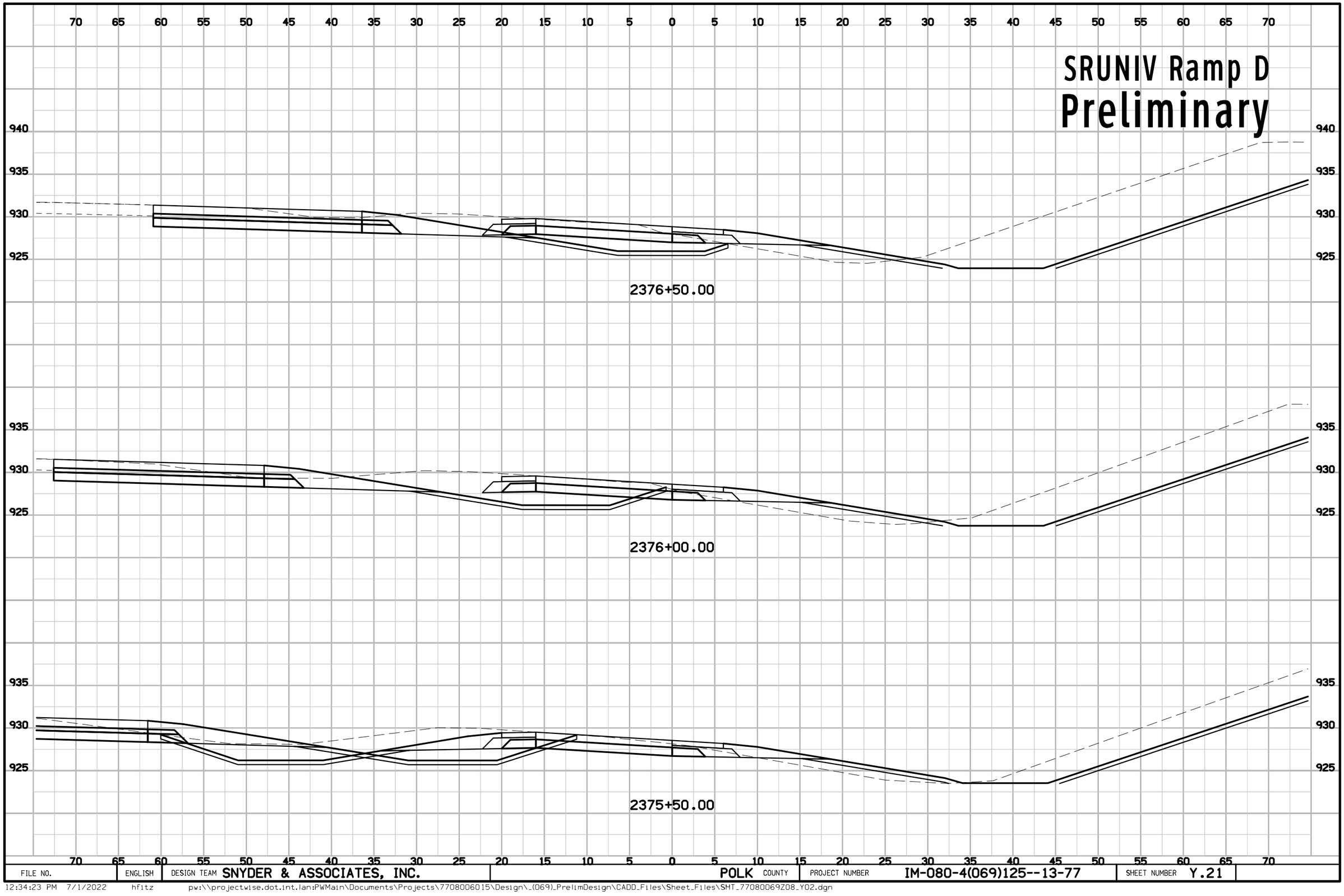
SRUNIV Ramp D
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER Y.21

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SRUNIV Ramp D

Preliminary



FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER Y.22

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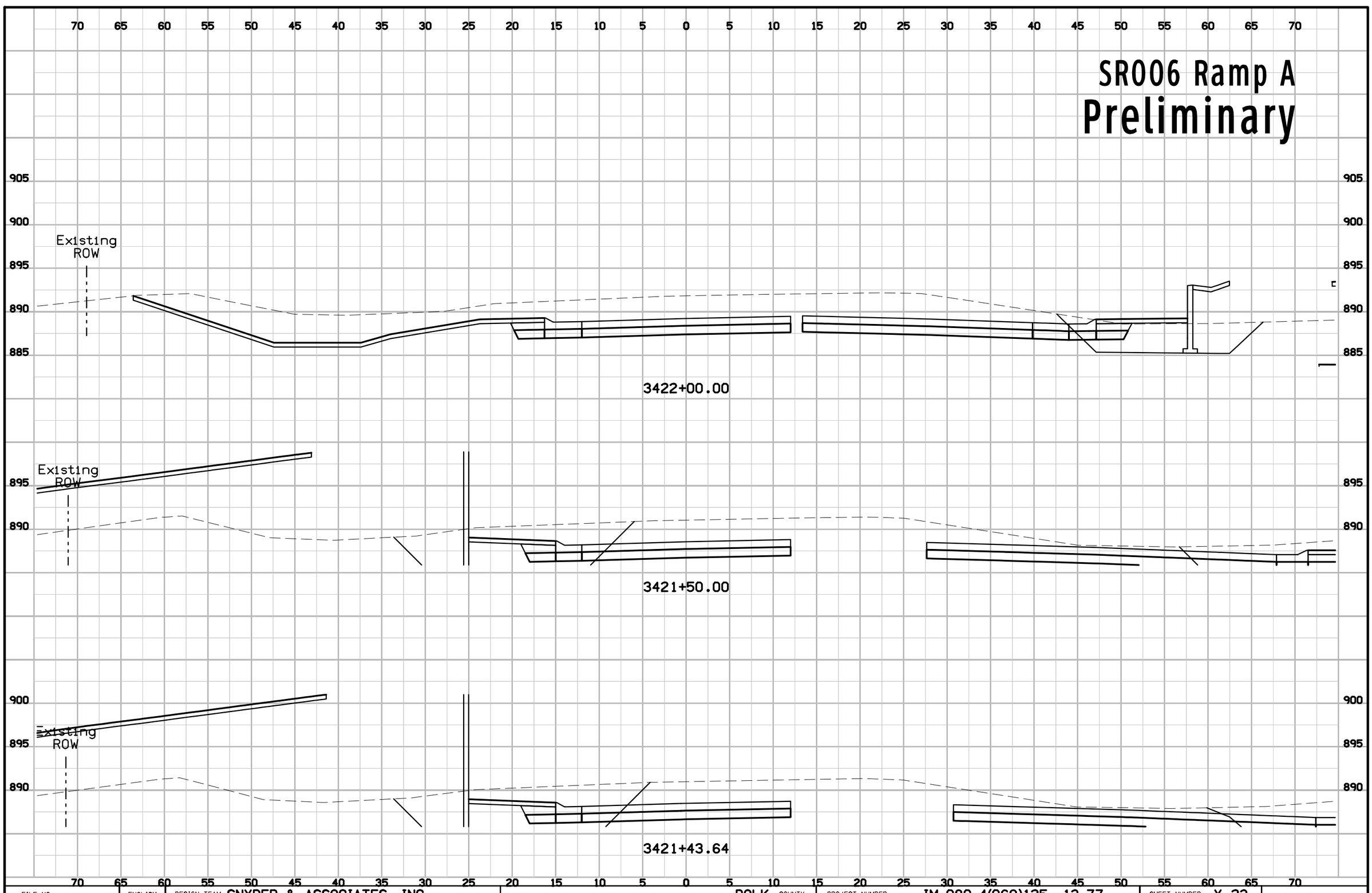
SR006 Ramp A
Preliminary



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SR006 Ramp A
Preliminary

70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70

905
900
895
890

Existing ROW

3423+00.00

900
895
890

Existing ROW

3422+53.82

900
895
890

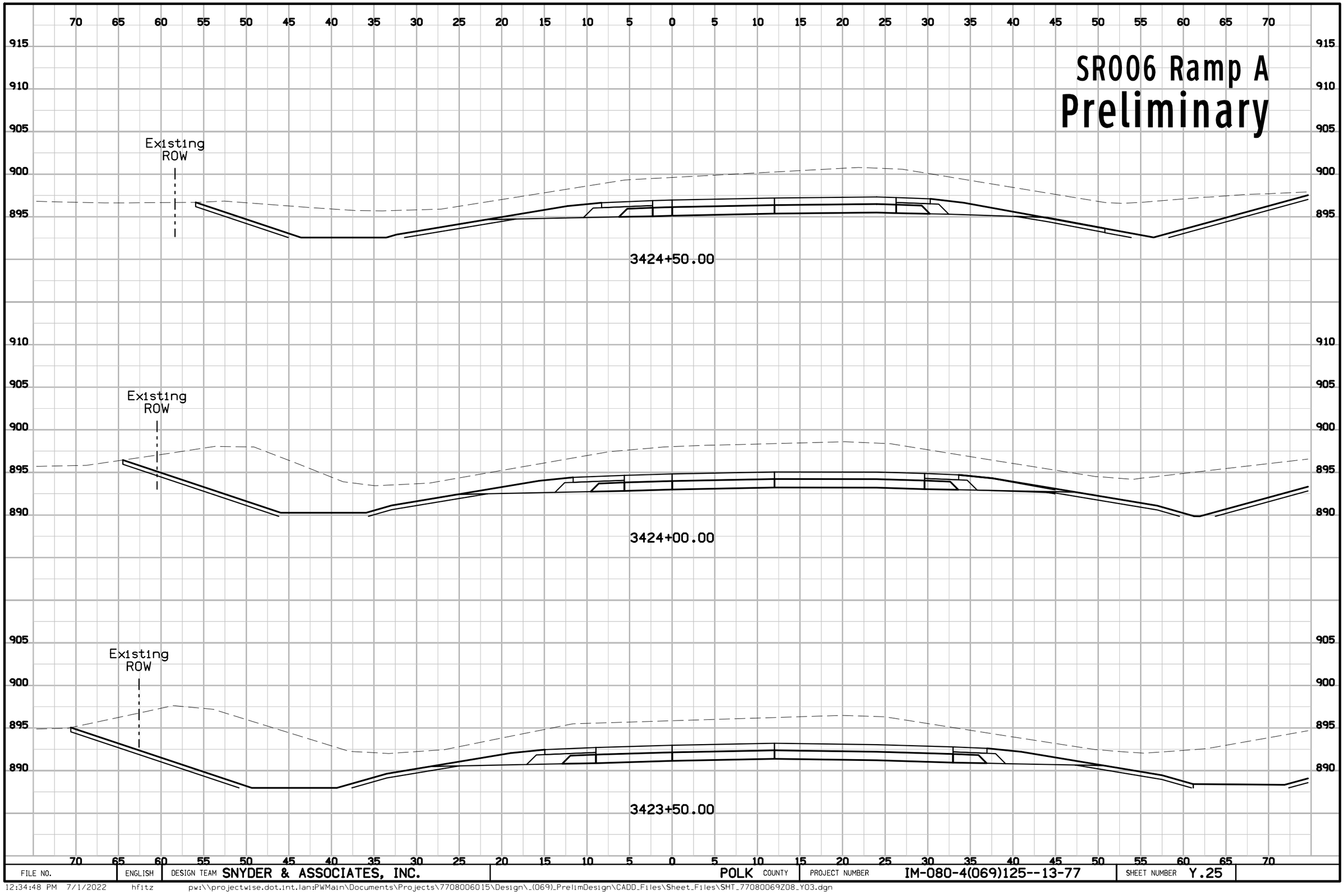
Existing ROW

3422+50.00

FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER Y.24

12:34:48 PM 7/1/2022 hfitz pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\7708006015\Design_(069)_PrelimDesign\CADD_Files\Sheet_Files\SHT_7708006928_Y03.dgn

SR006 Ramp A
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER Y.25

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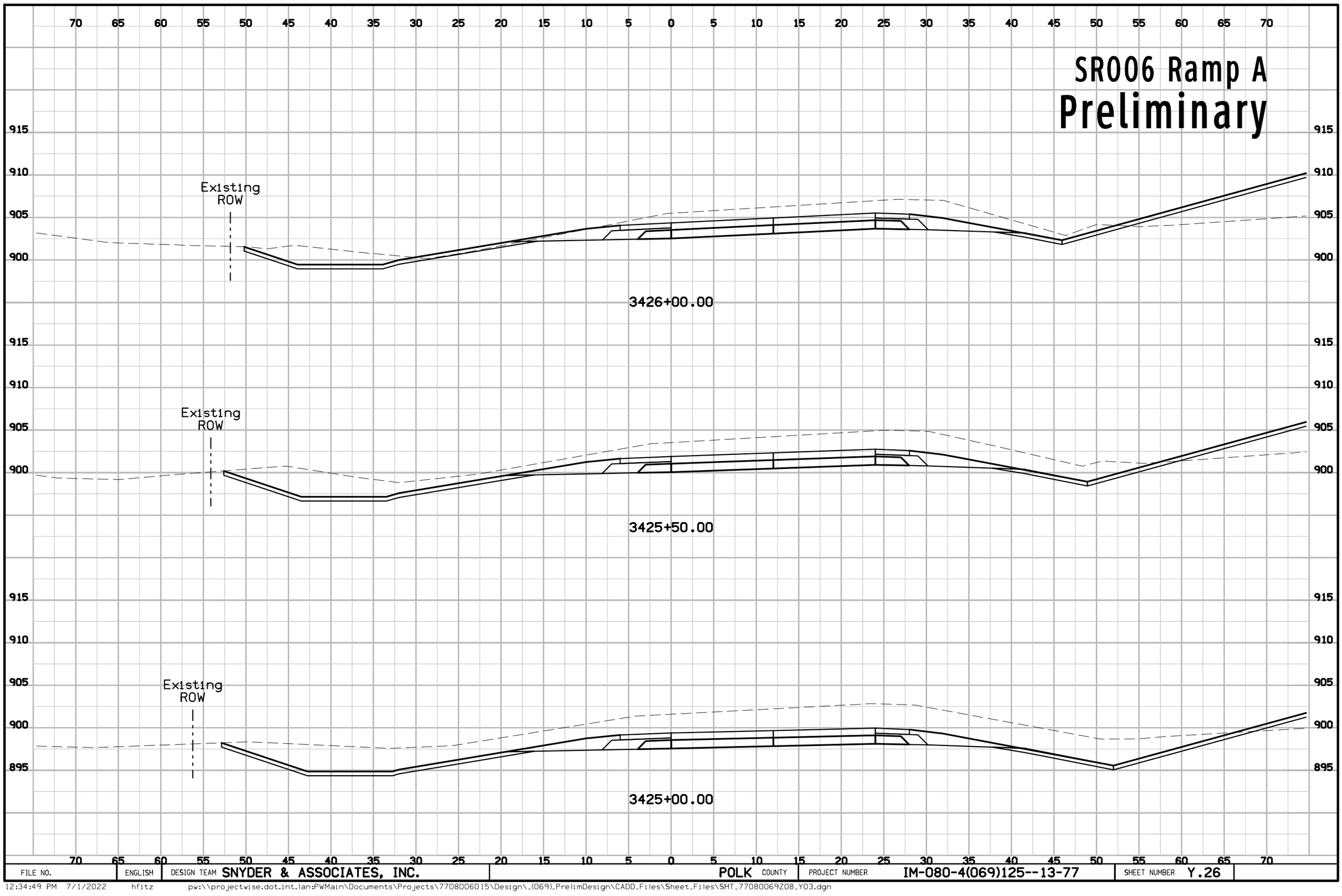
SR006 Ramp A
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER Y.26

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SR006 Ramp A
Preliminary

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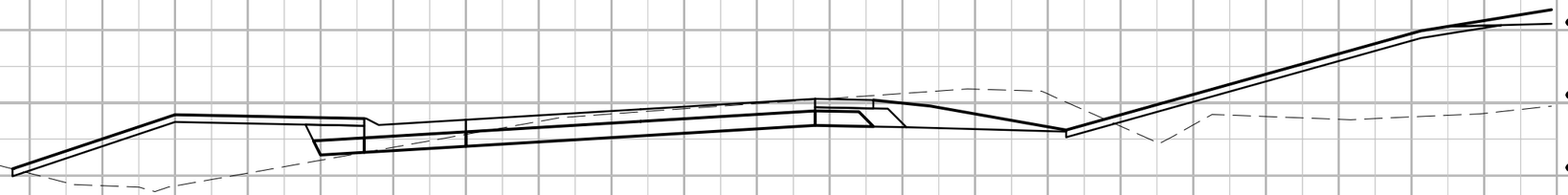
915
910
905

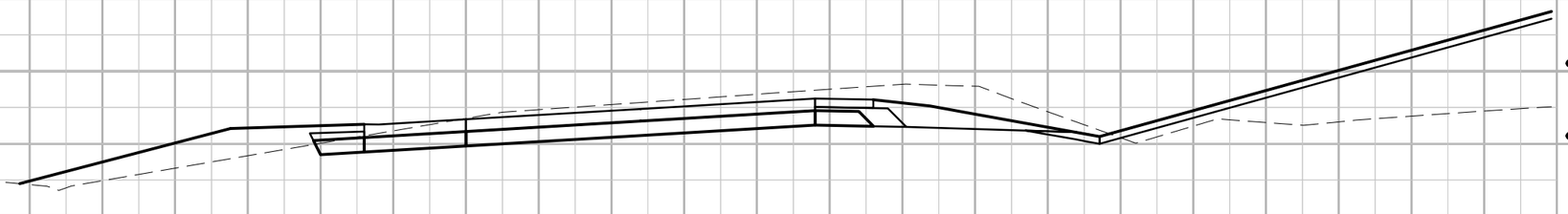
Existing
ROW



3427+00.00

915
910
905

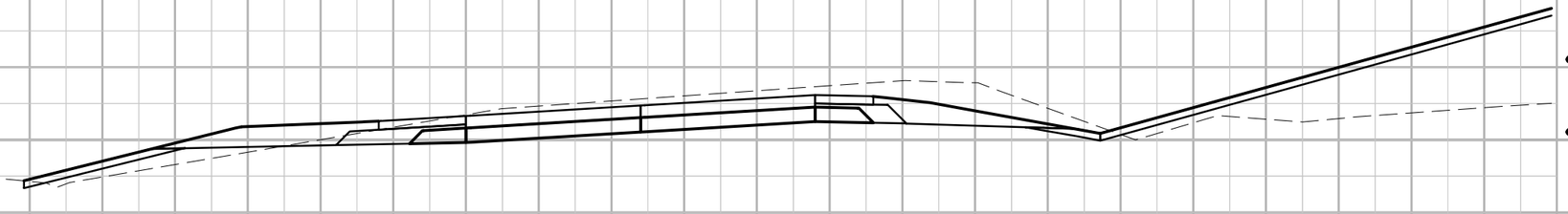
Existing
ROW



3426+50.00

915
910
905

Existing
ROW



3426+49.16

70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70

FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER Y.27

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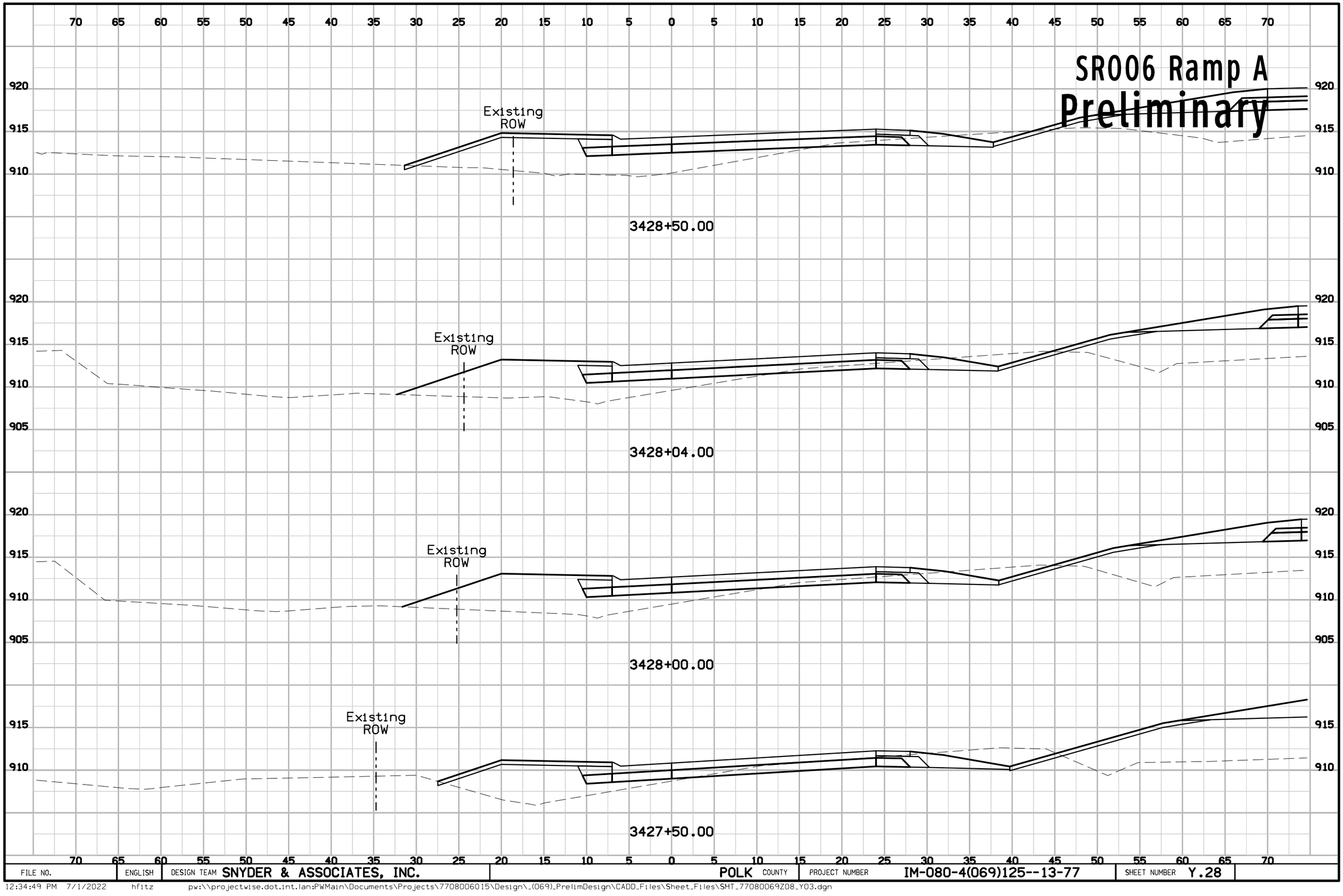
SR006 Ramp A

Preliminary



FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER Y.28

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SR006 Ramp A
Preliminary

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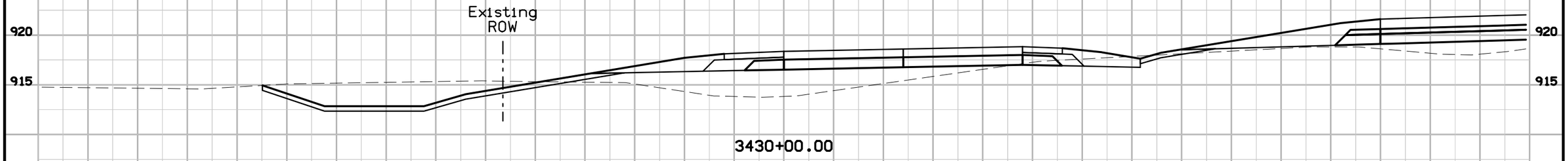
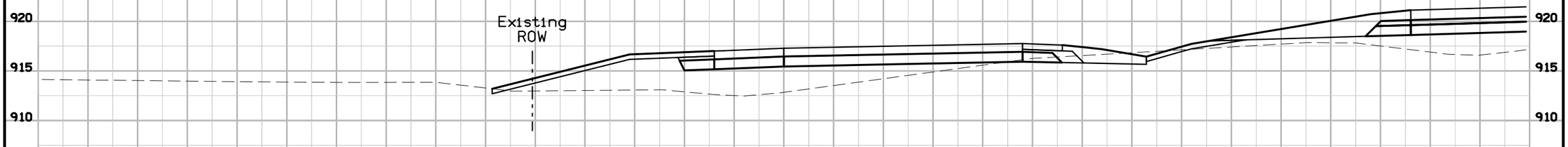
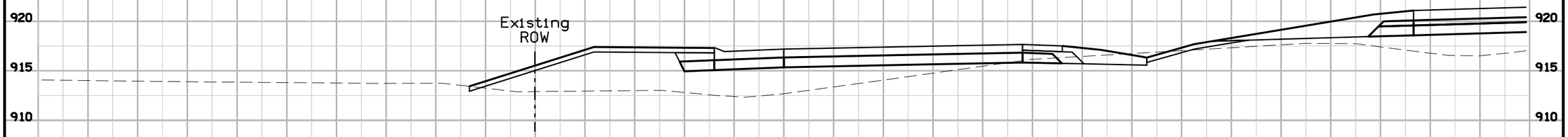


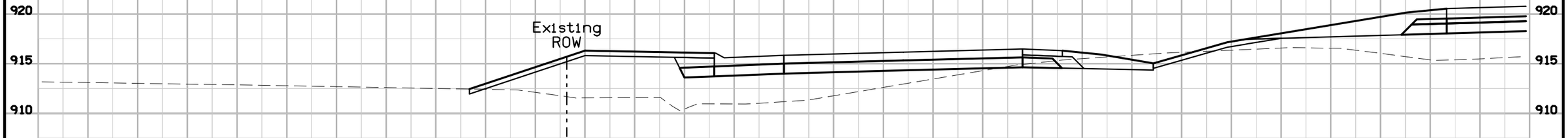
3430+00.00



3429+53.98



3429+50.00



3429+00.00

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FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER Y.29

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SR006 Ramp A
Preliminary

70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70

930
925
920
915

Existing
ROW

3431+50.00

925
920
915

Existing
ROW

3431+00.00

925
920
915

Existing
ROW

3430+50.00

70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70

FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER Y.30

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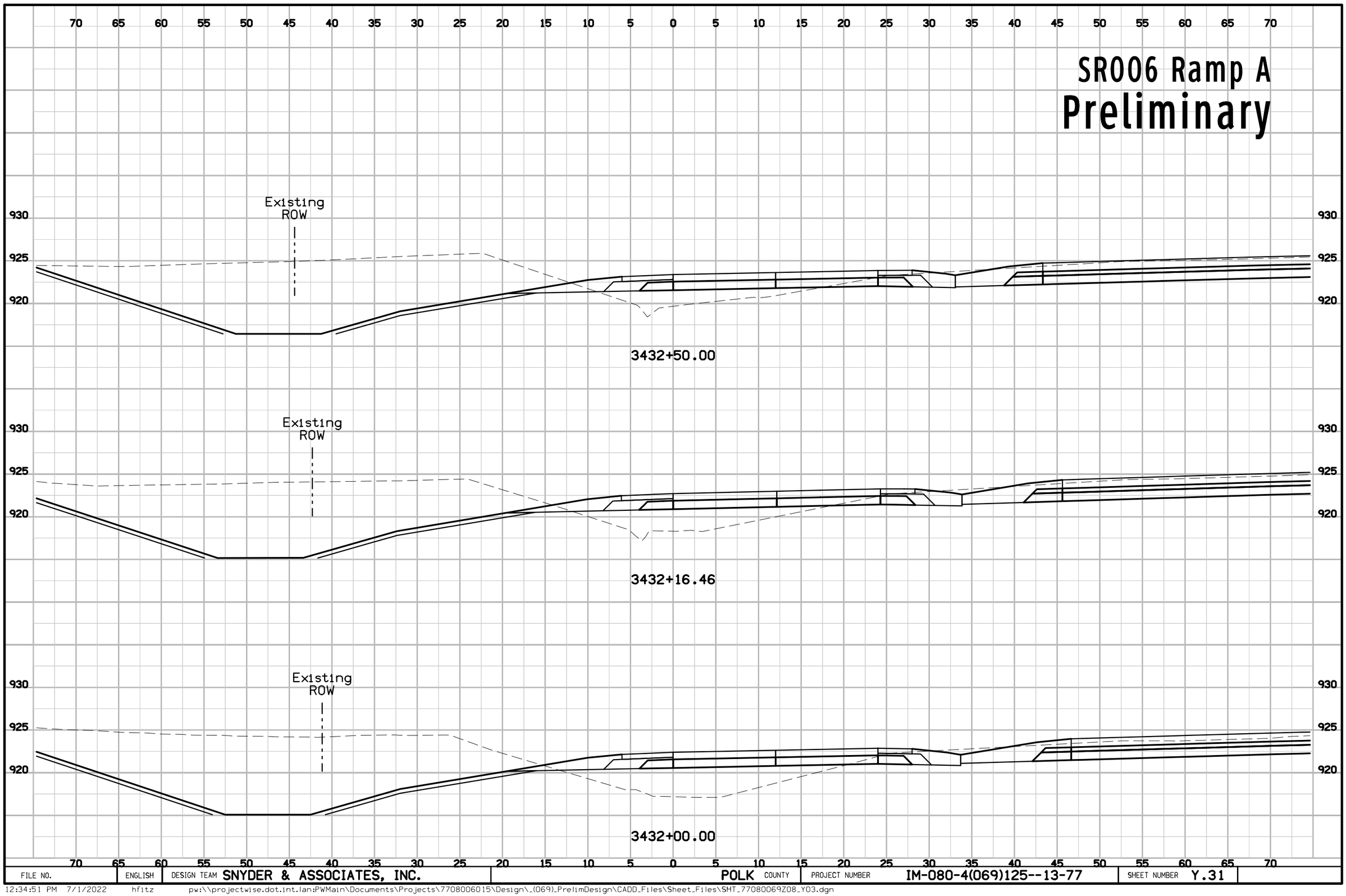
SR006 Ramp A
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER Y.31

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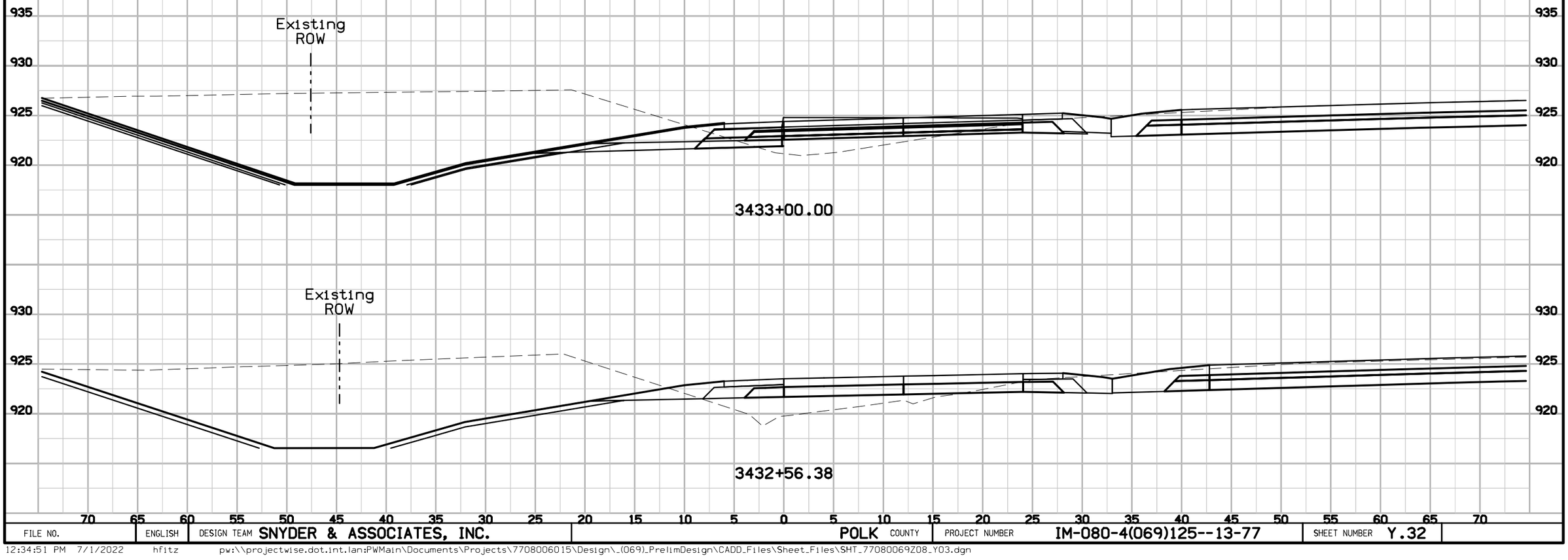
SR006 Ramp A
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER Y.32

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SR006 Ramp A1

Preliminary

70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70

905
900
895
890
885

13419+50.00

13419+48.68

FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER Y.33

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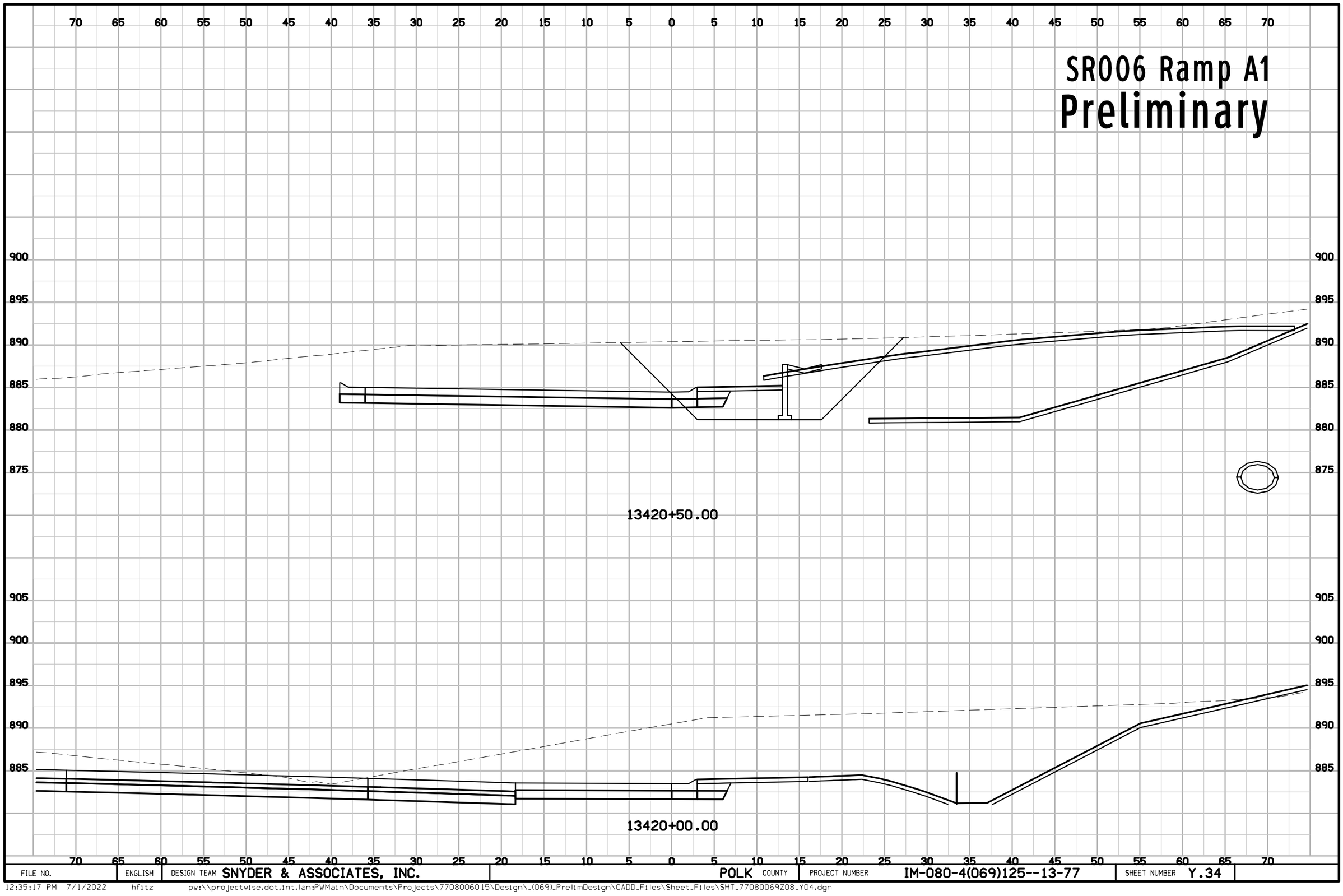
SR006 Ramp A1

Preliminary



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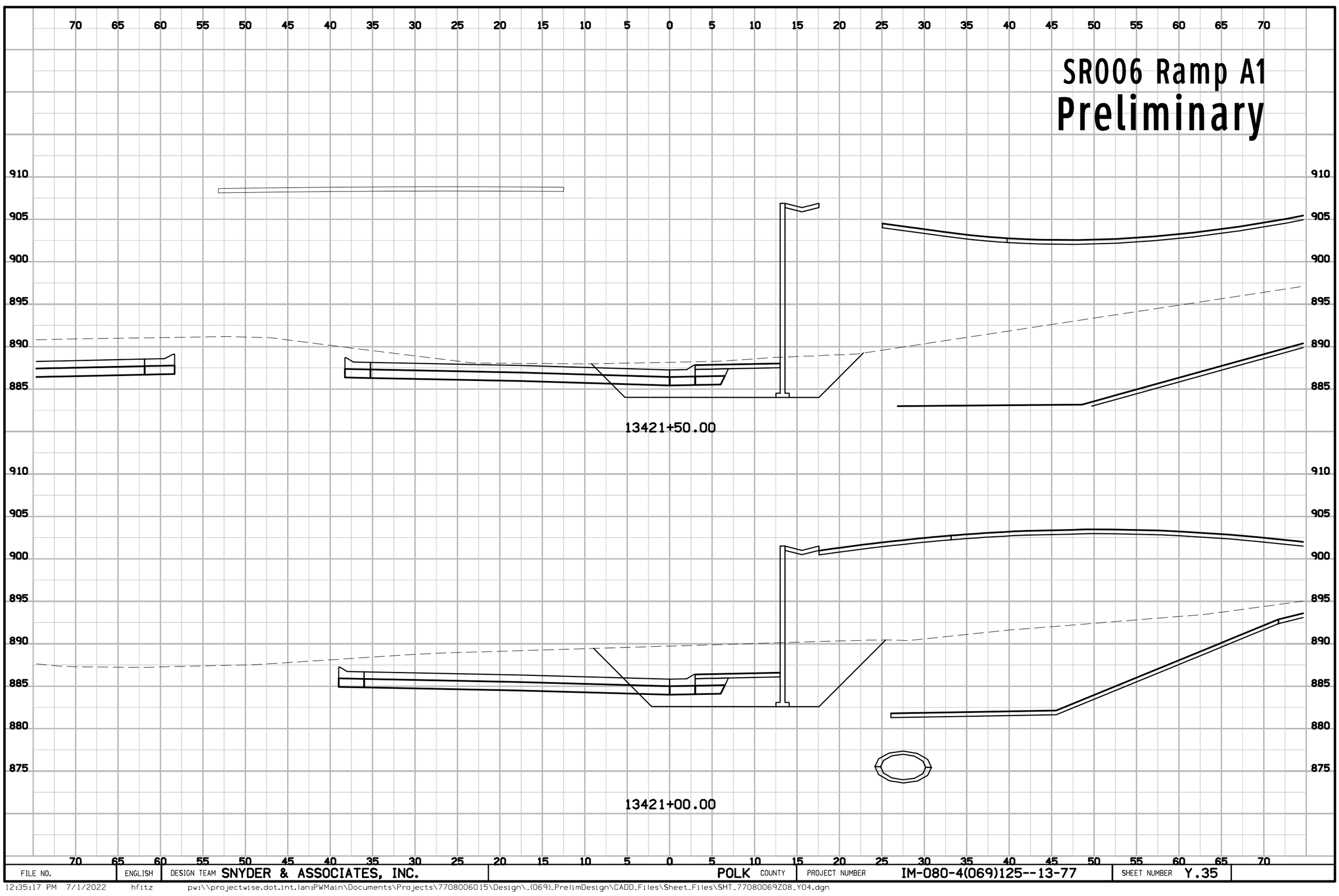
SR006 Ramp A1

Preliminary



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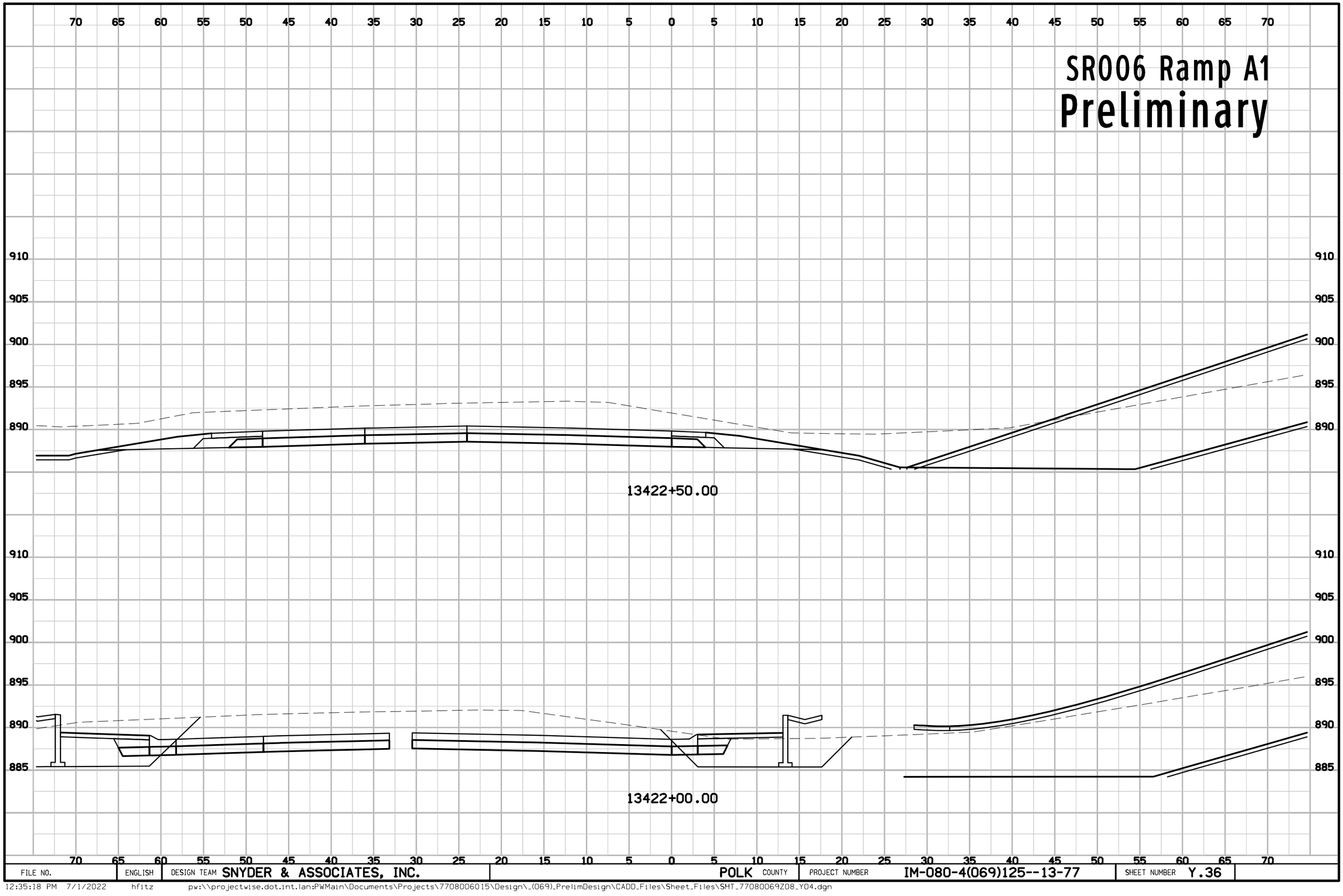
SR006 Ramp A1

Preliminary



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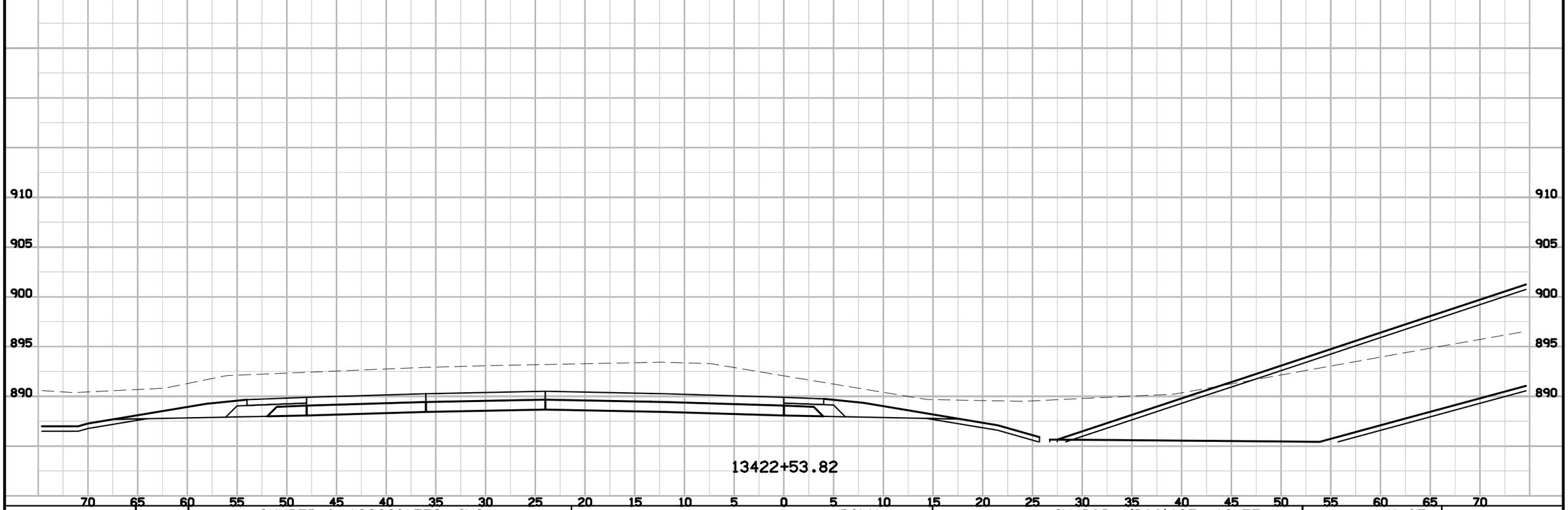
SR006 Ramp A1

Preliminary



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SR006 Ramp A2

Preliminary

70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70

900
895
890

23419+50.00

900
895
890

23419+00.00

900
895
890

23418+68.42

70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70

FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER Y.38

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SR006 Ramp A2

Preliminary

70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70

900
895
890
885
880

Existing ROW

23420+50.00

900
895
890
885

g Existing ROW

23420+00.00

FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER Y.39

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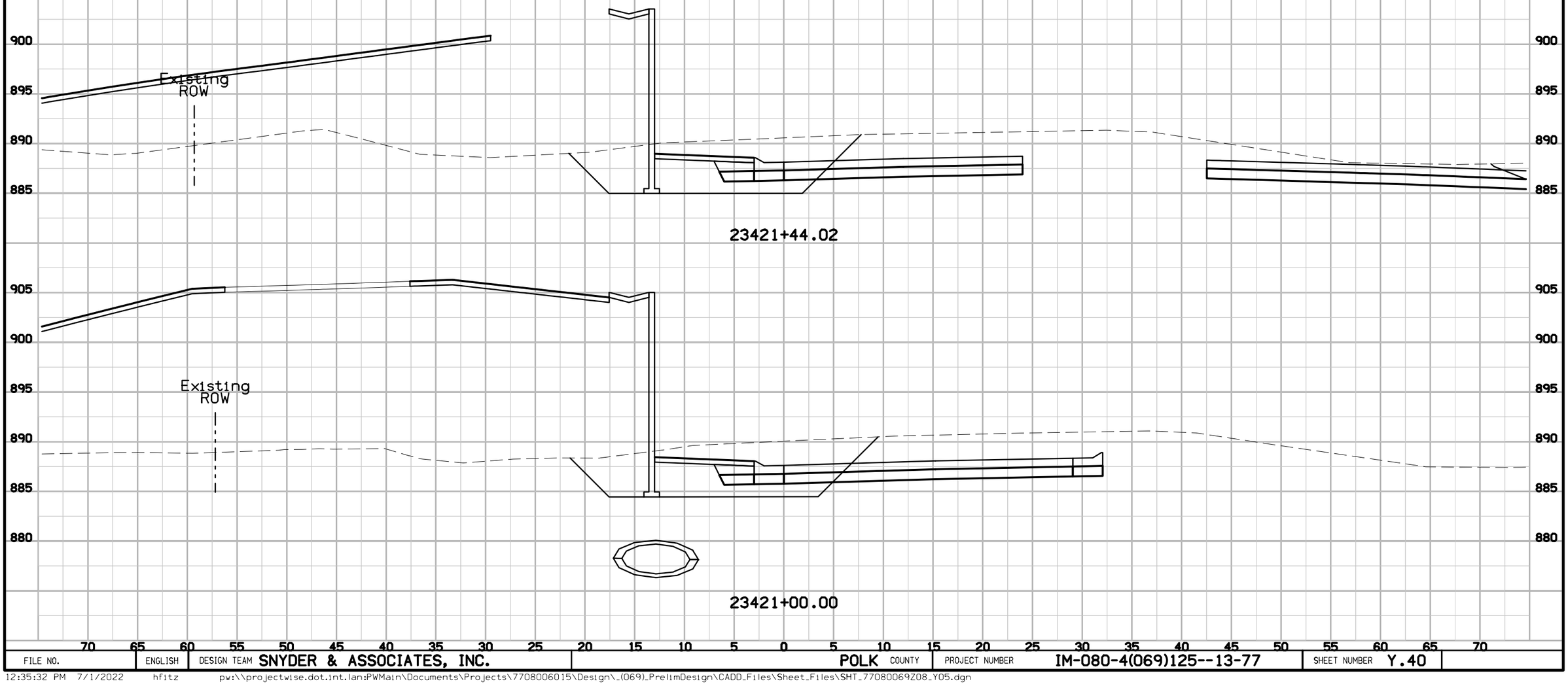
SR006 Ramp A2

Preliminary



FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER Y.40

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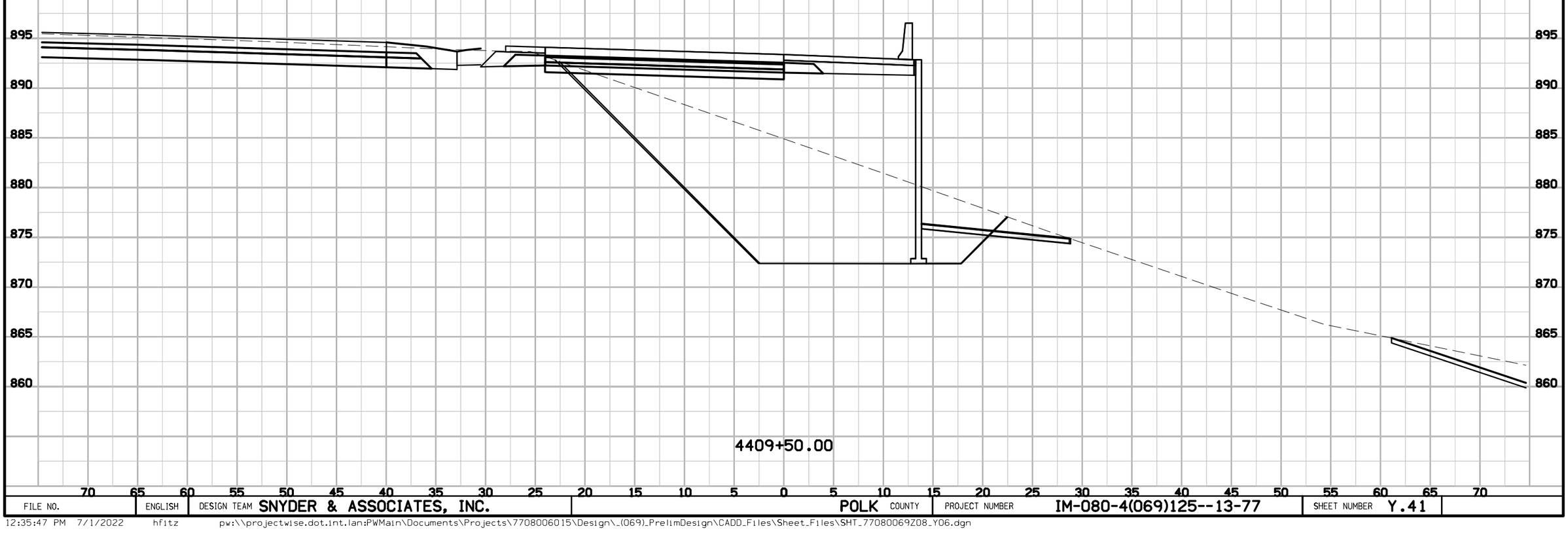
SR006 Ramp B

Preliminary



FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER Y.41

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SR006 Ramp B

Preliminary

70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70

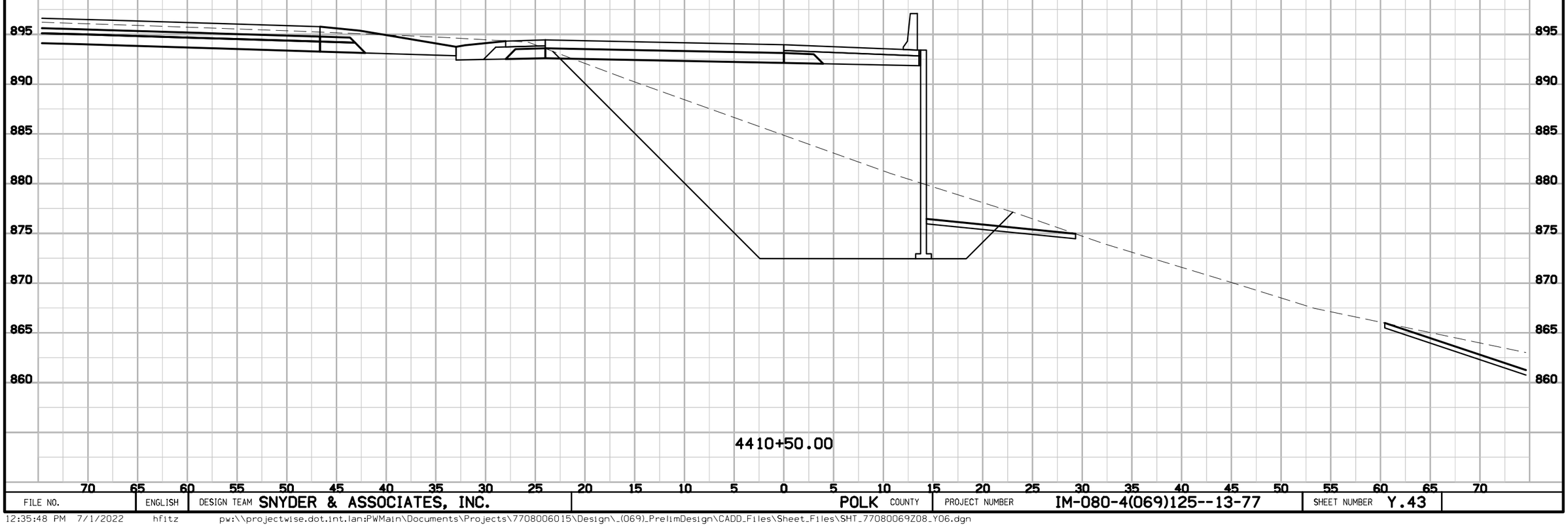
895
890
885
880
875
870
865
860

4410+00.00

FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER Y.42

12:35:47 PM 7/1/2022 hfitz pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\7708006015\Design_(069)_PrelimDesign\CADD_Files\Sheet_Files\SHT_77080069Z08_Y06.dgn

SR006 Ramp B
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER Y.43

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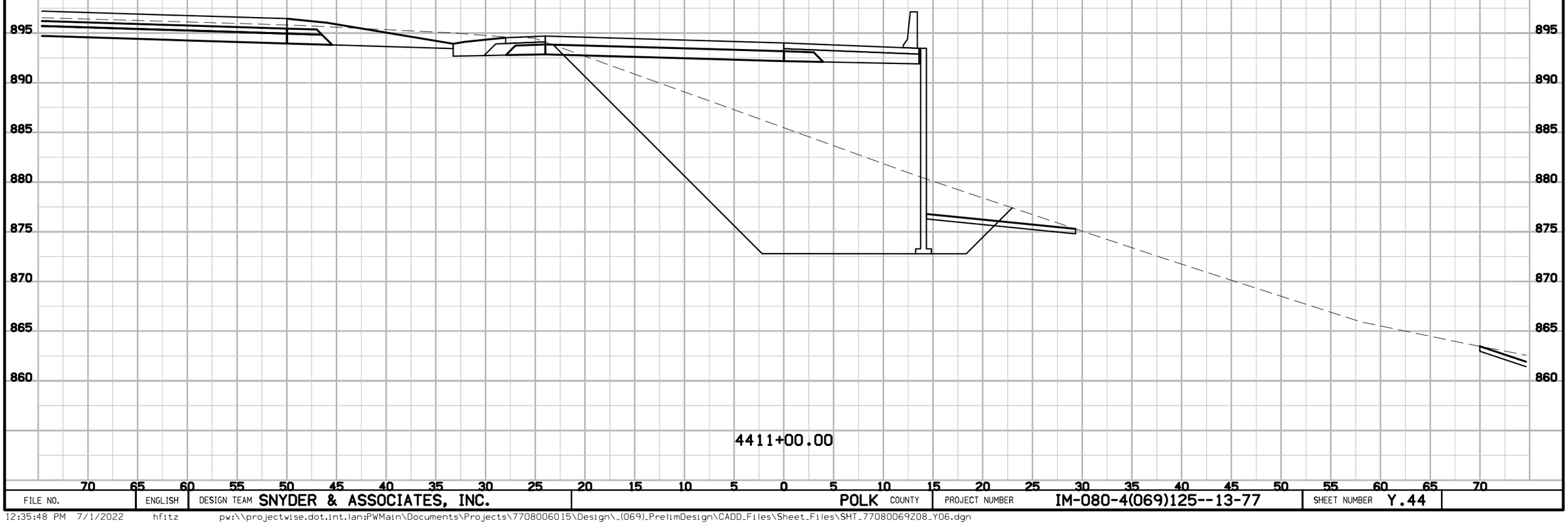
SR006 Ramp B
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER Y.44

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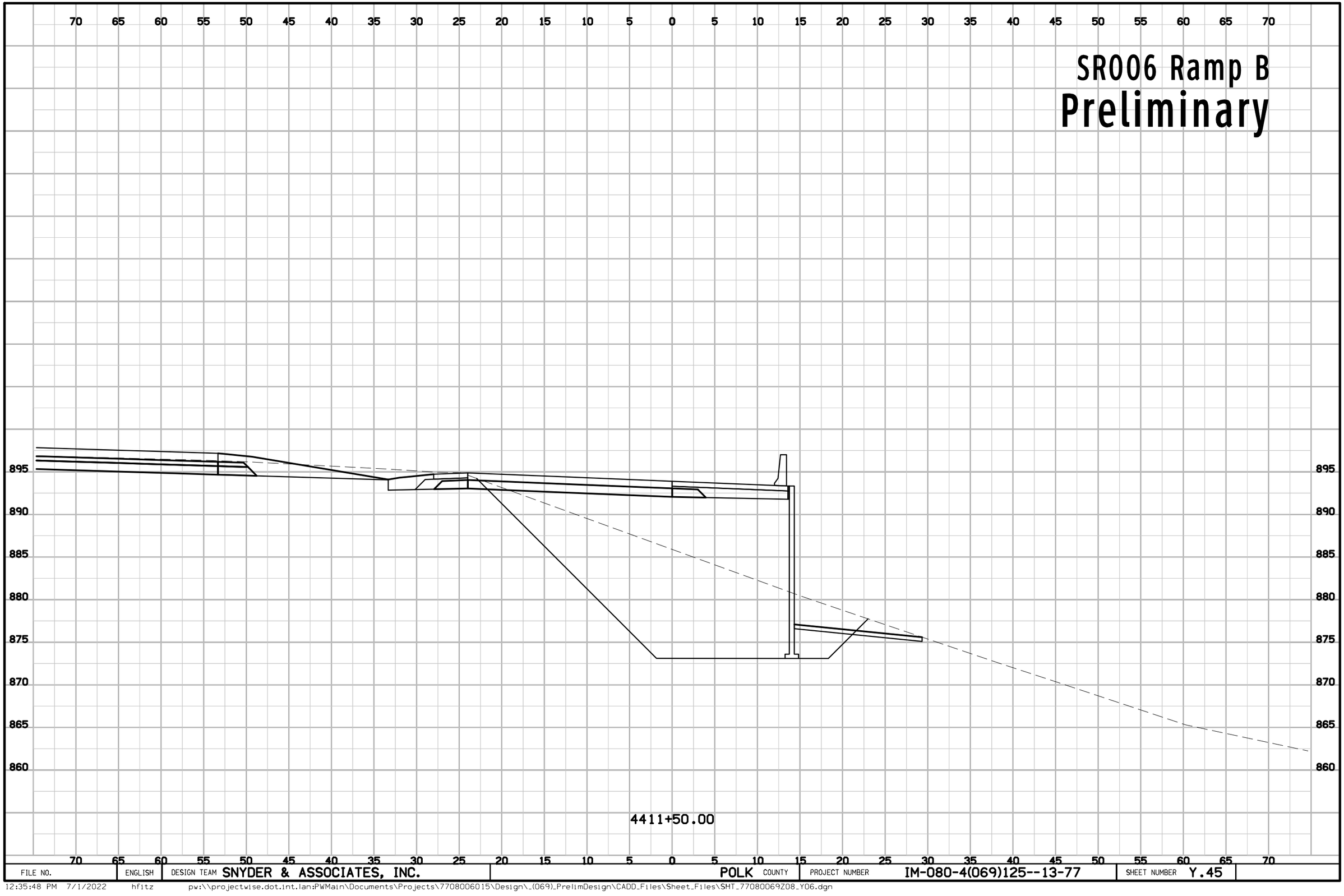
SR006 Ramp B
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER Y.45

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SR006 Ramp B

Preliminary

70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70

895 890 885 880 875 870 865 860

4412+00.00

FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER Y.46

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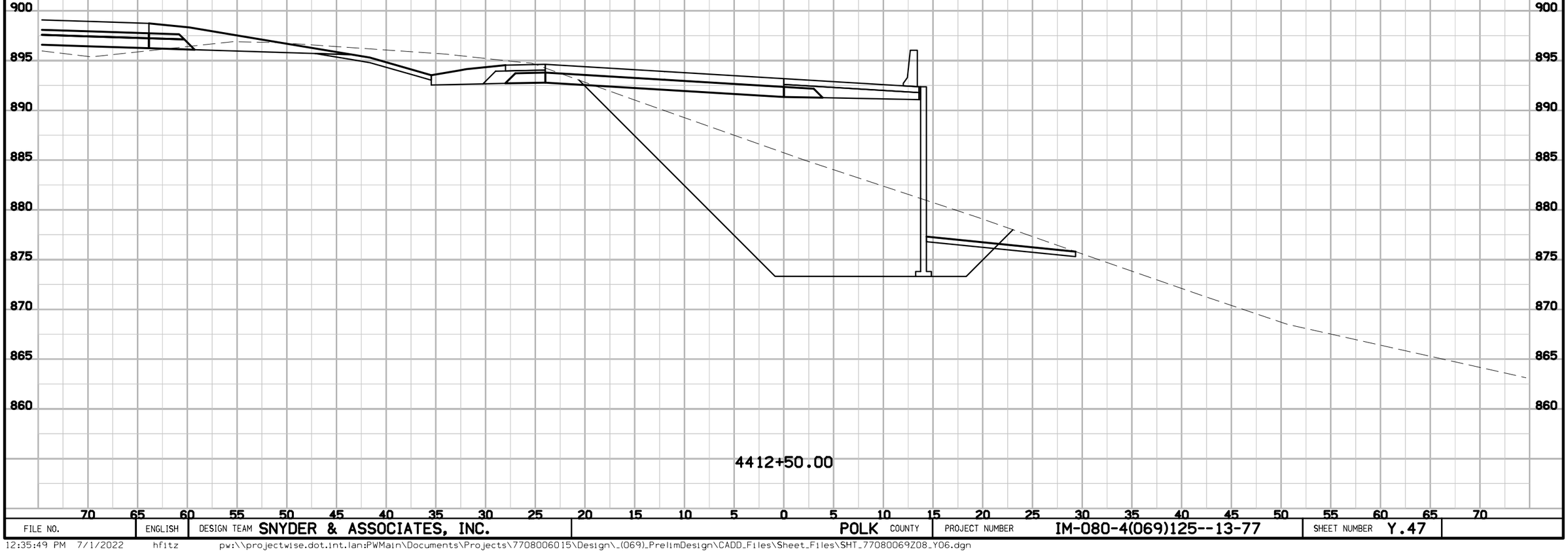
SR006 Ramp B

Preliminary



FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER Y.47

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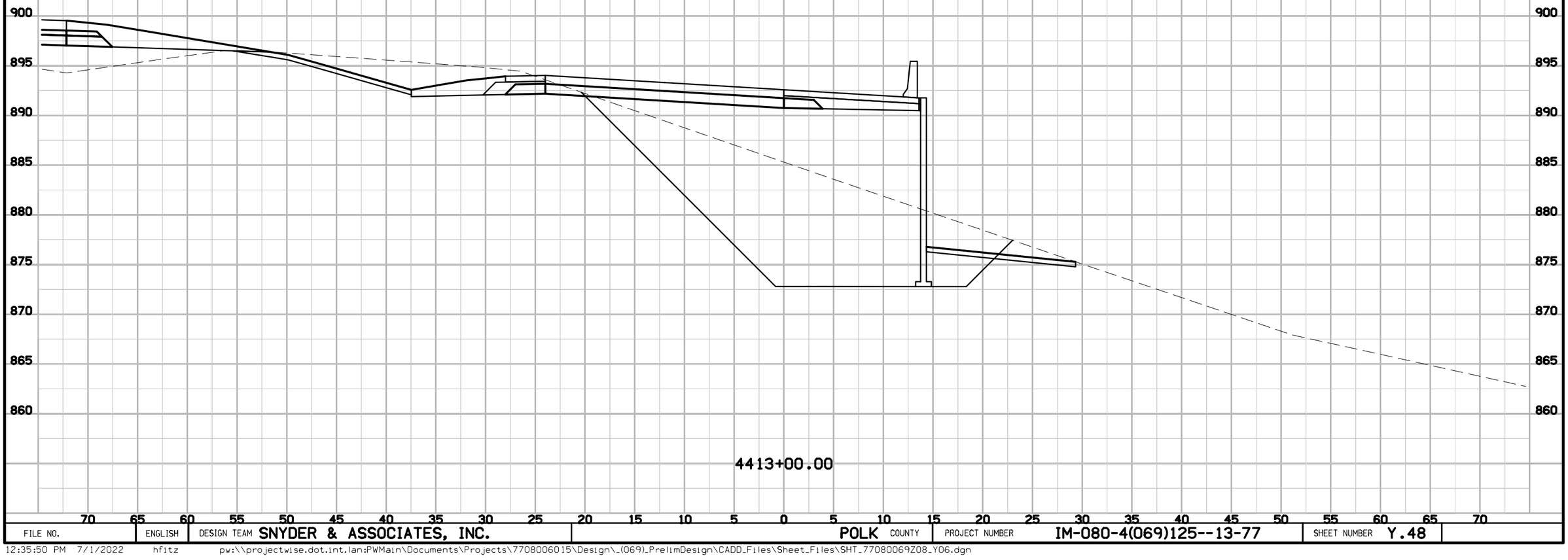
SR006 Ramp B

Preliminary



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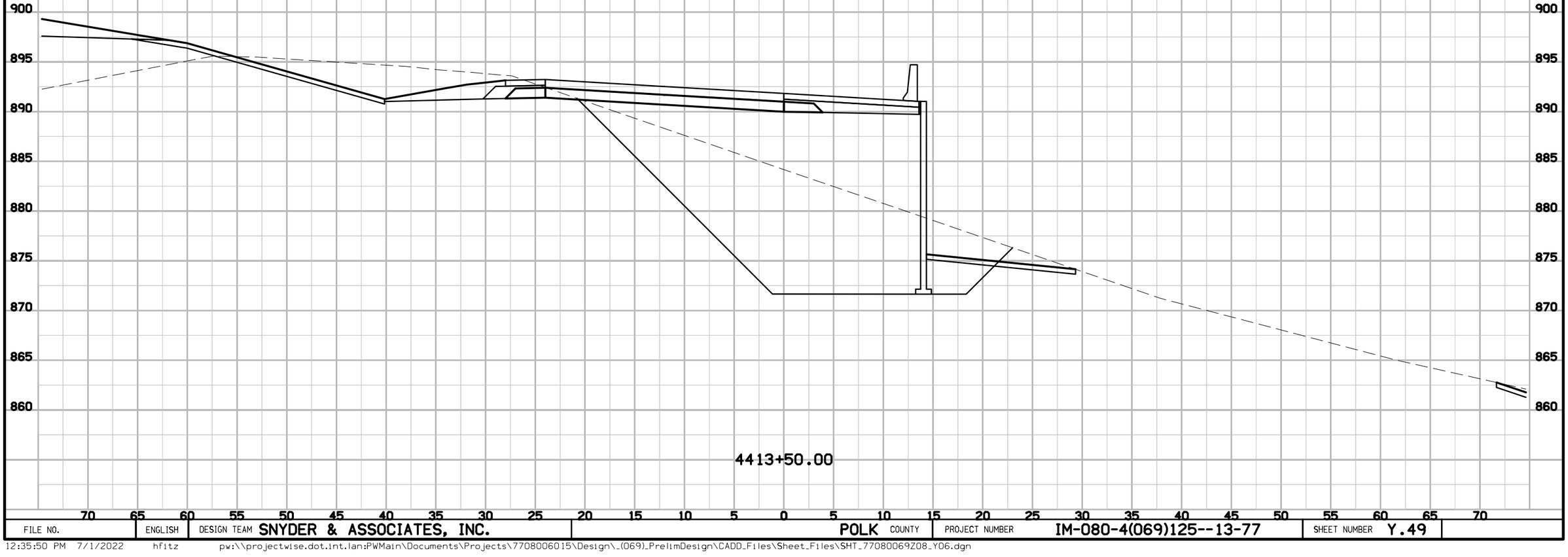
SR006 Ramp B

Preliminary



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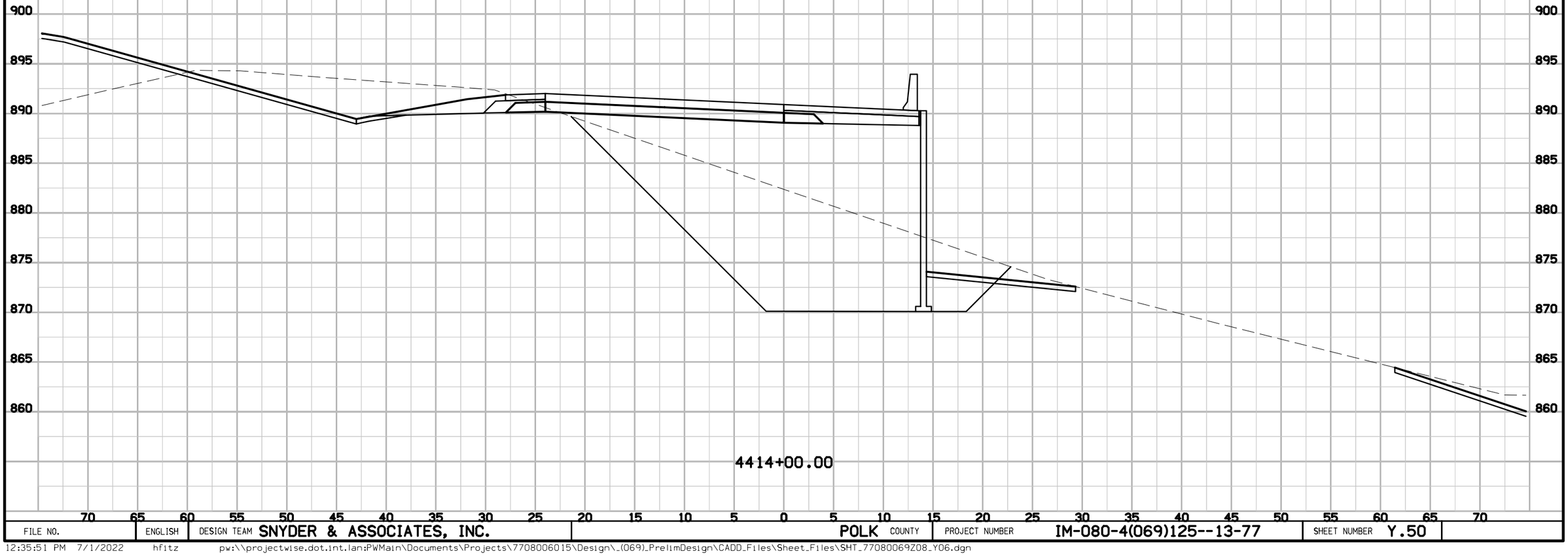
SR006 Ramp B

Preliminary



FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER Y.50

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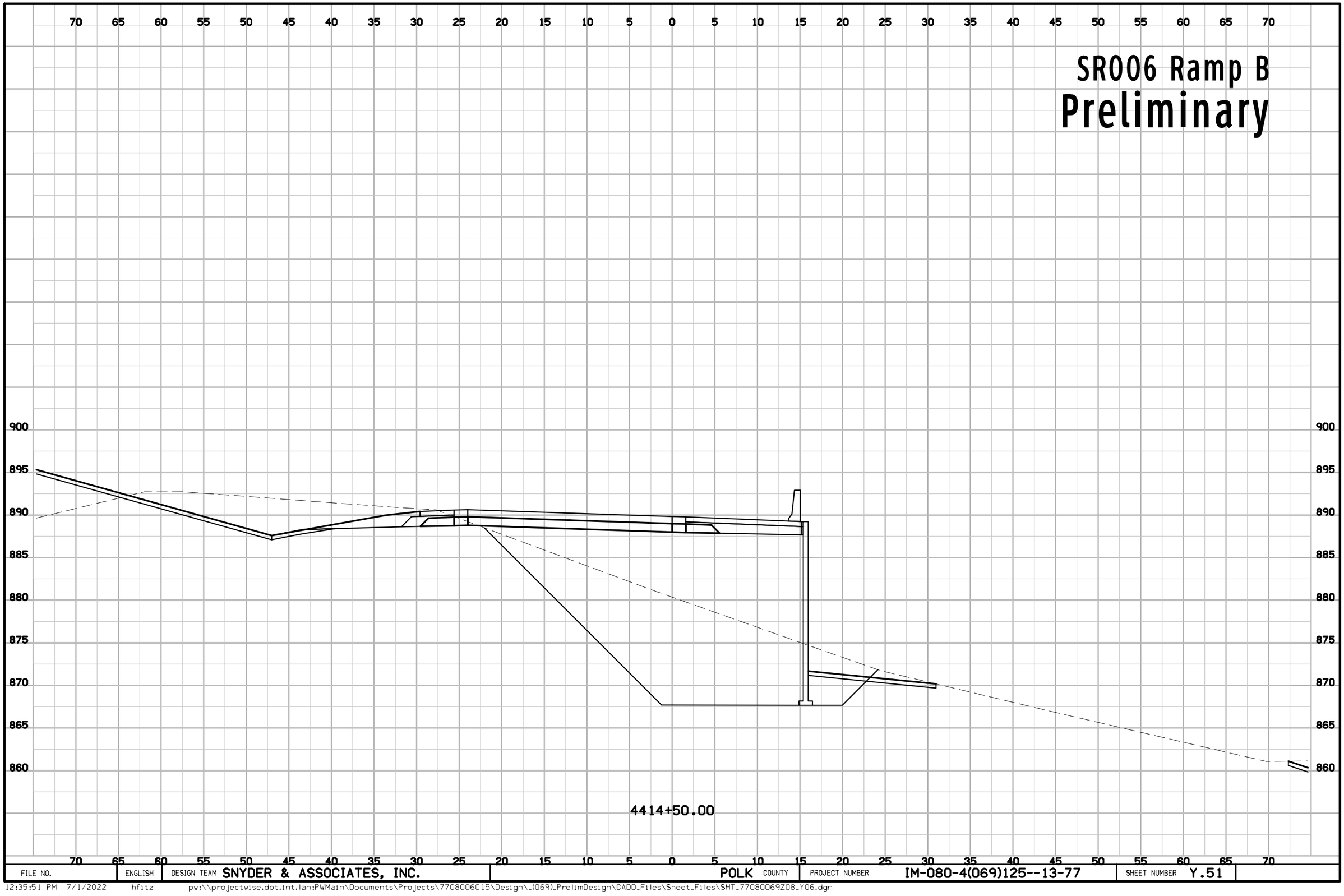
SR006 Ramp B

Preliminary



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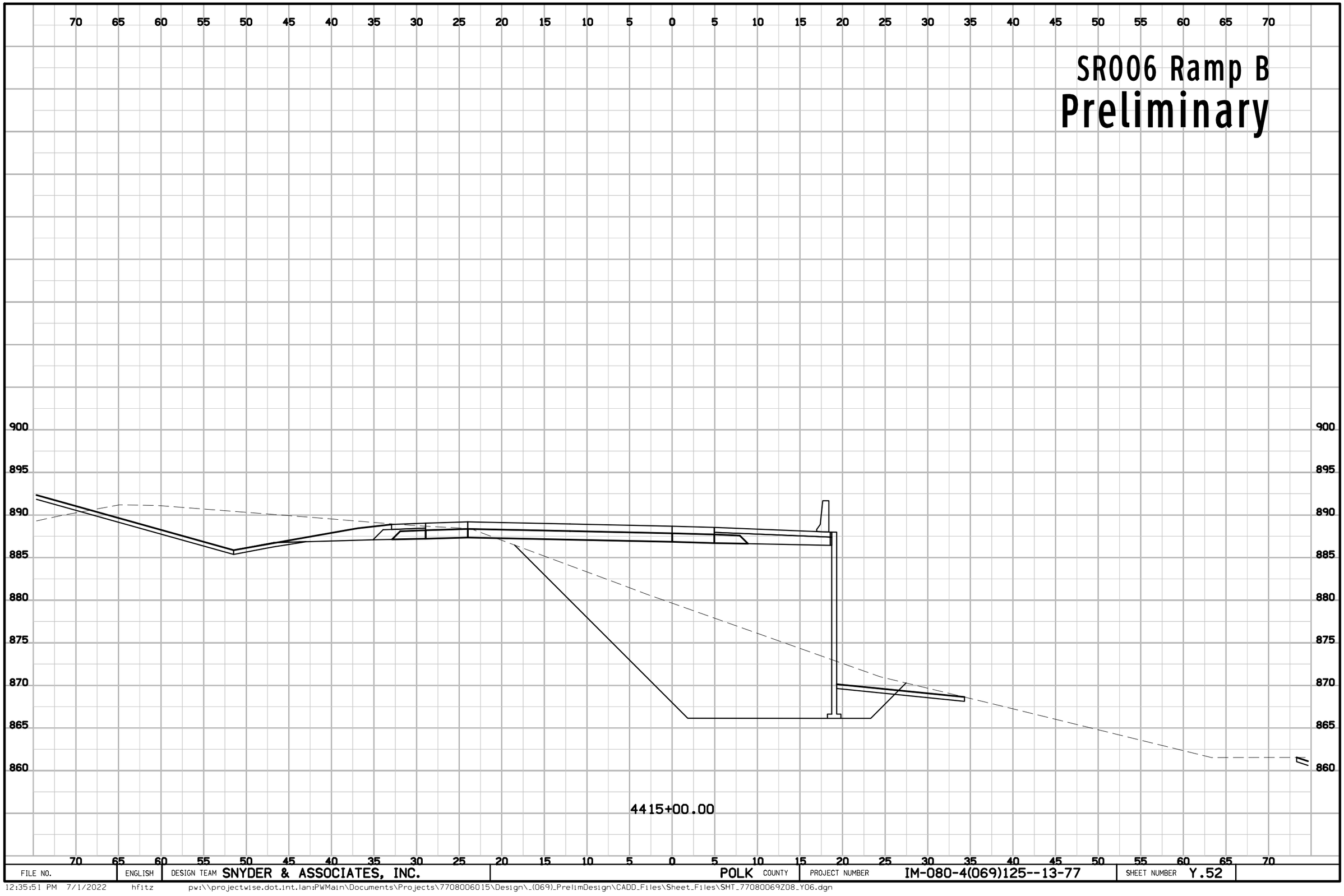
SR006 Ramp B

Preliminary



FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER Y.52

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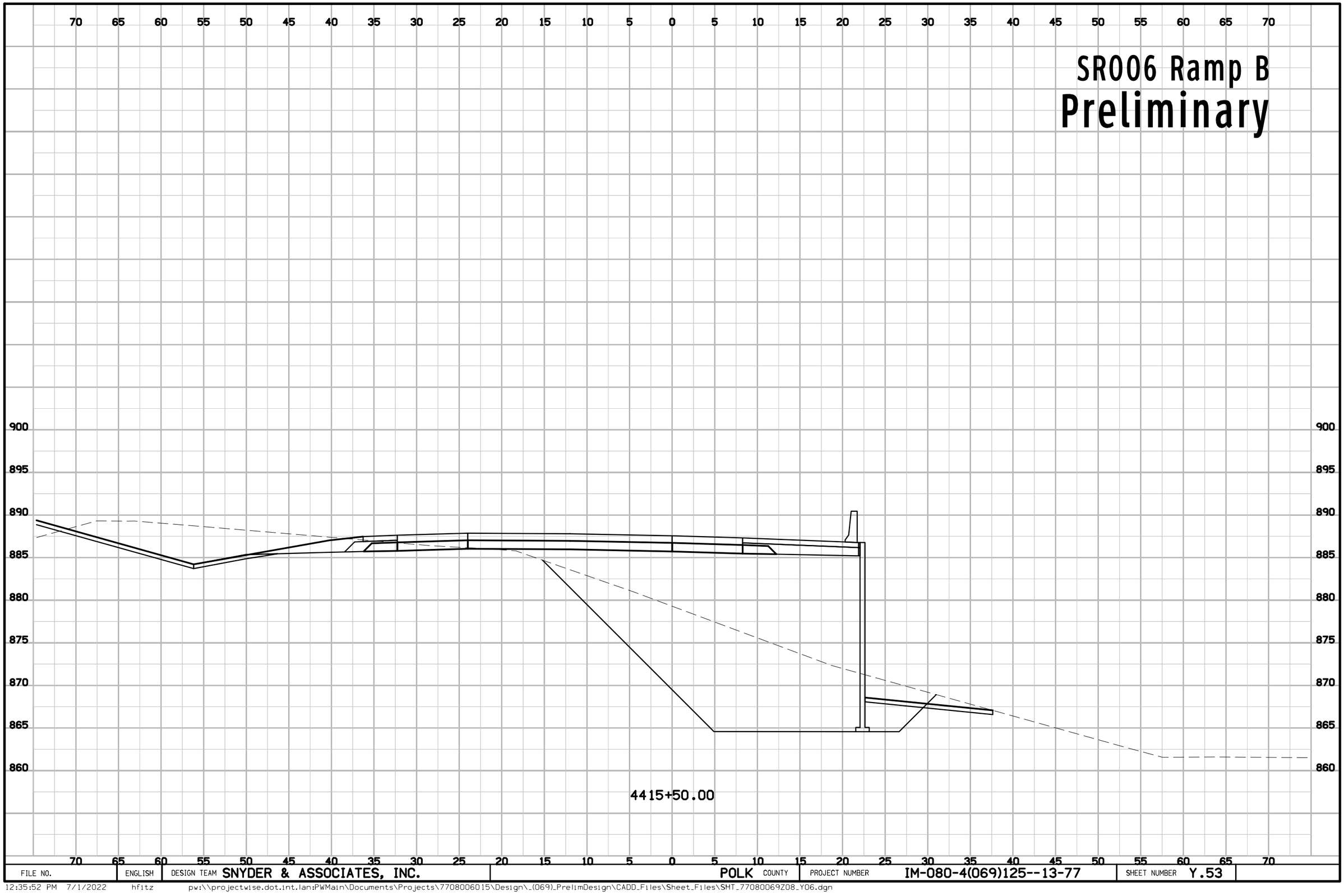
SR006 Ramp B

Preliminary



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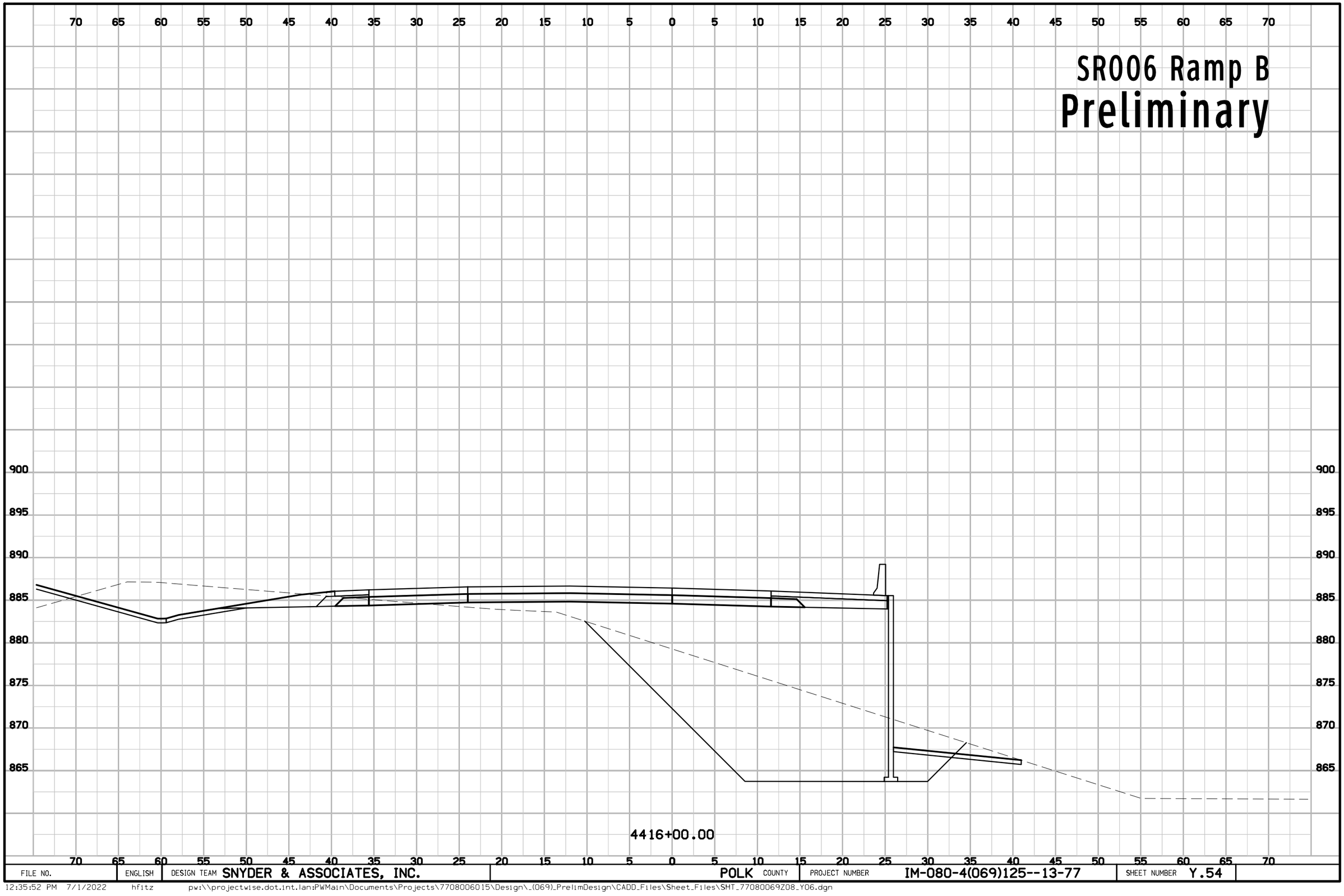
SR006 Ramp B

Preliminary



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SR006 Ramp B

Preliminary

70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70

900
895
890
885
880
875
870
865

4416+41.89

FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER Y.55

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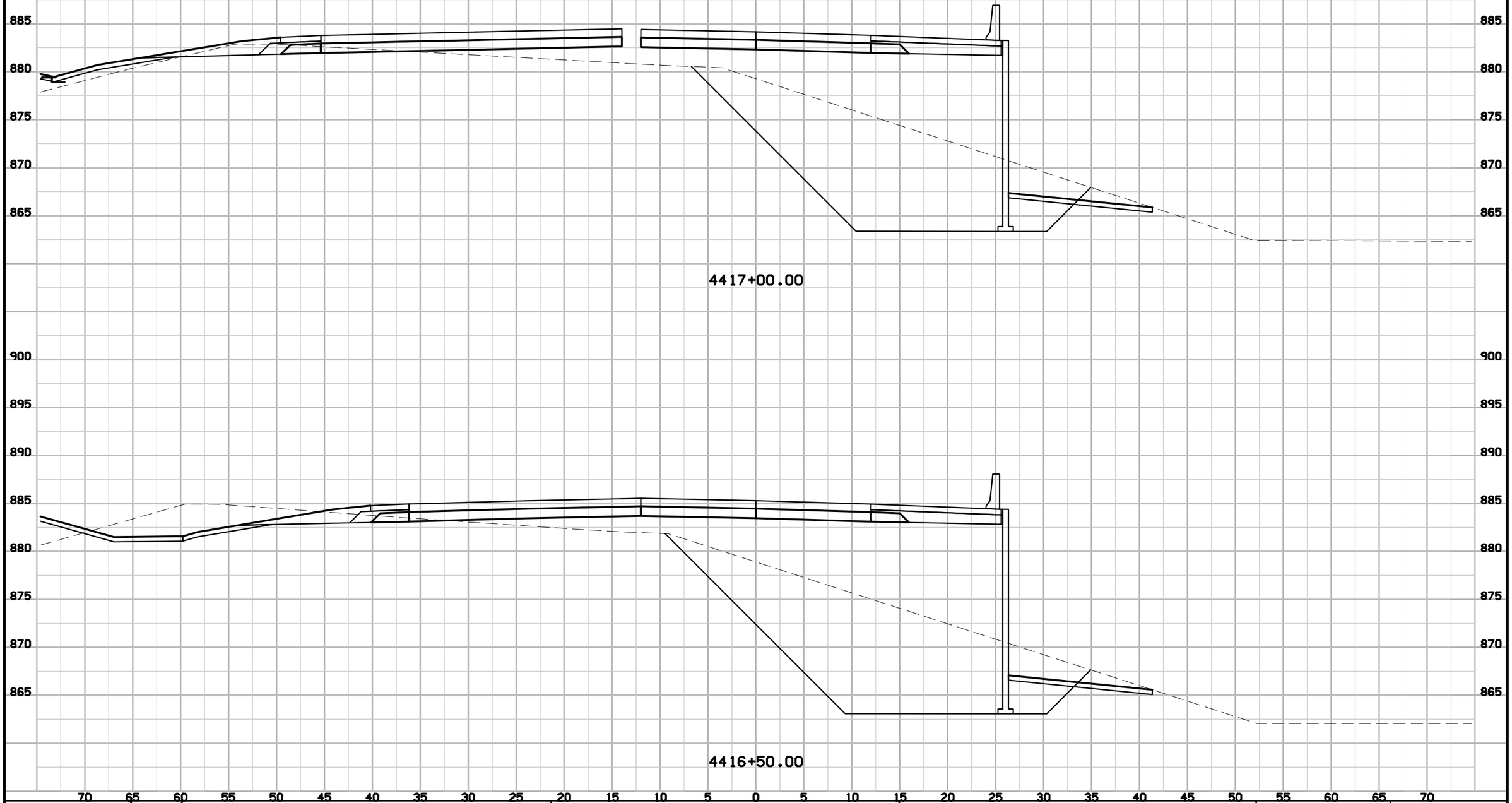
SR006 Ramp B
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER Y.56

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SR006 Ramp B

Preliminary

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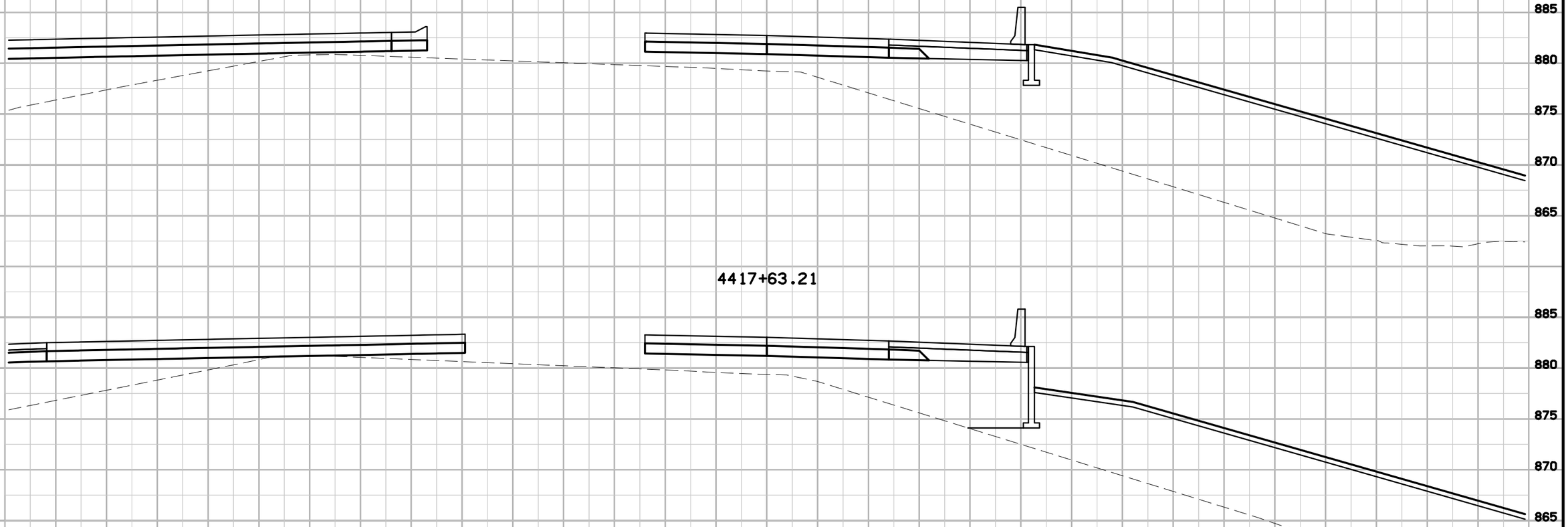
885
880
875
870
865



4417+63.21

4417+50.00

FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER Y.57

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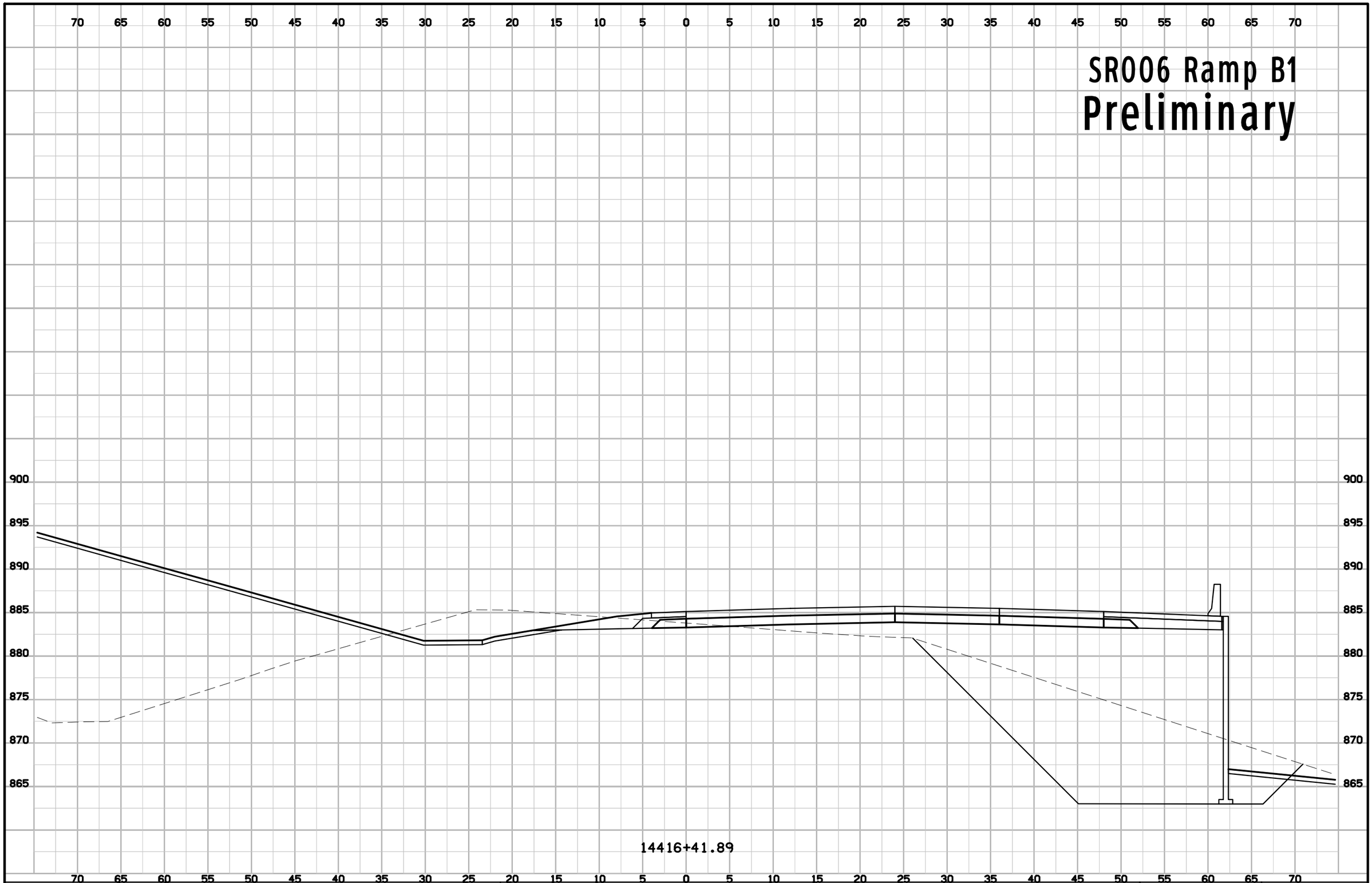
SR006 Ramp B1

Preliminary



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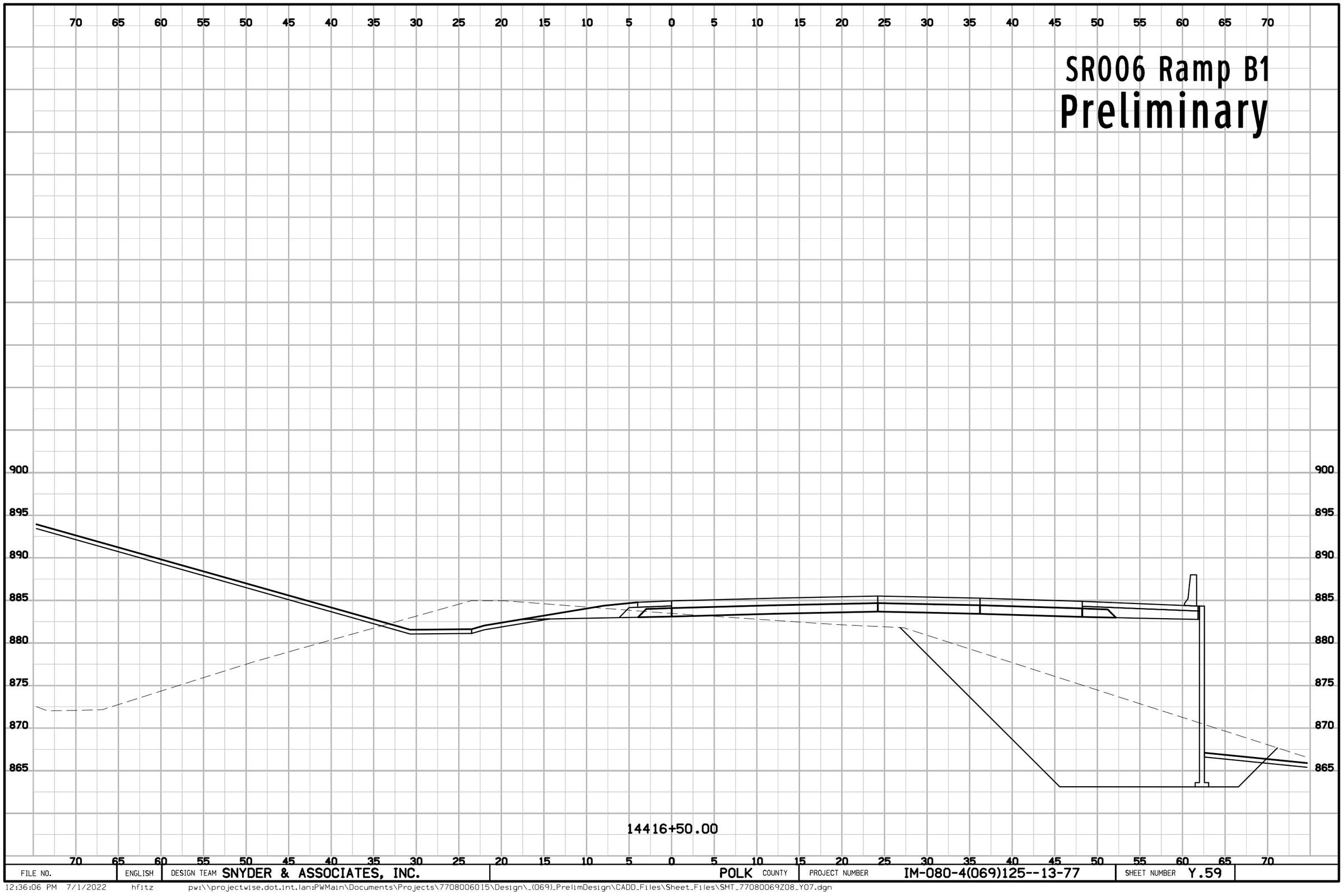
SR006 Ramp B1

Preliminary



FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER Y.59

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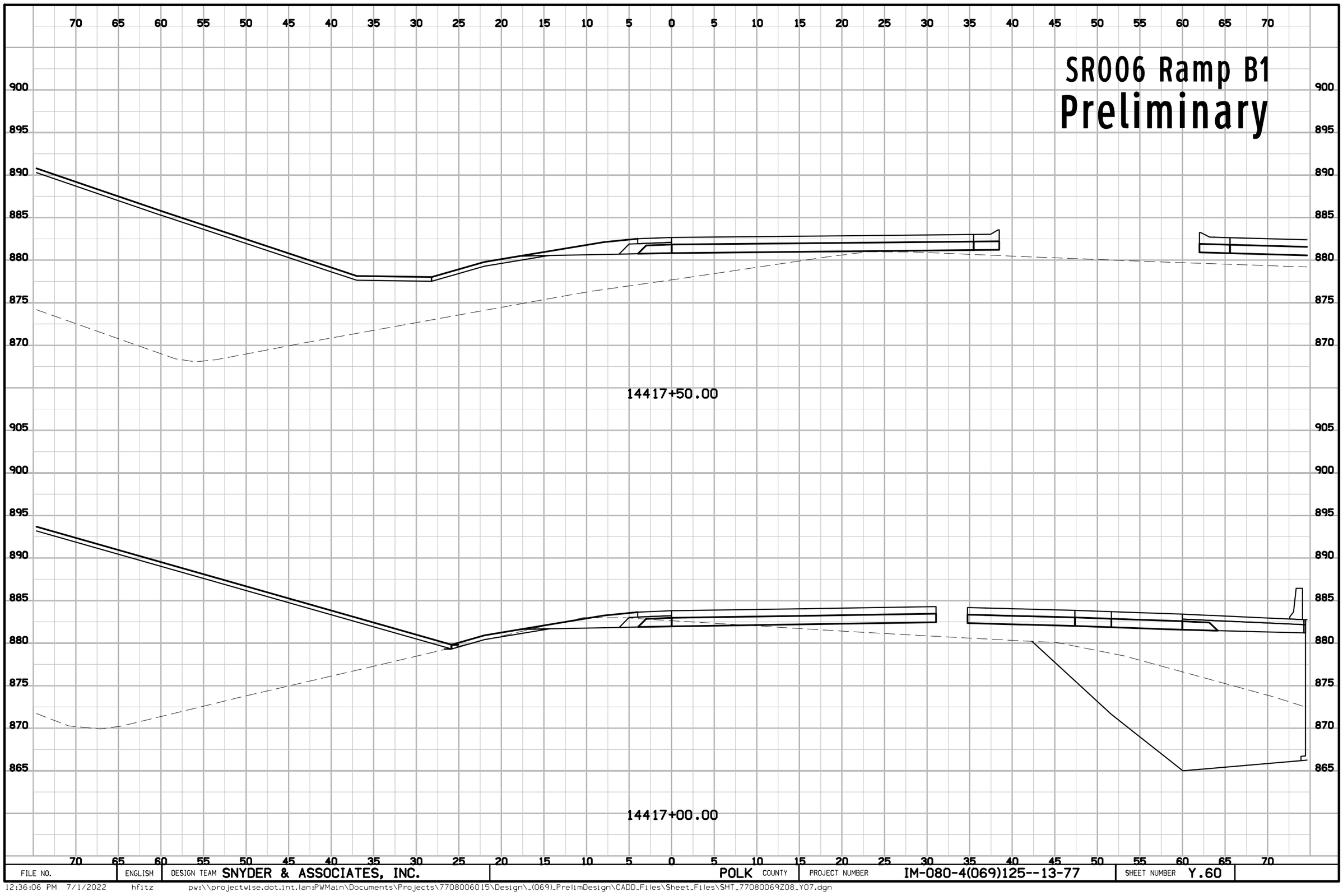
SR006 Ramp B1

Preliminary



FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER Y.60

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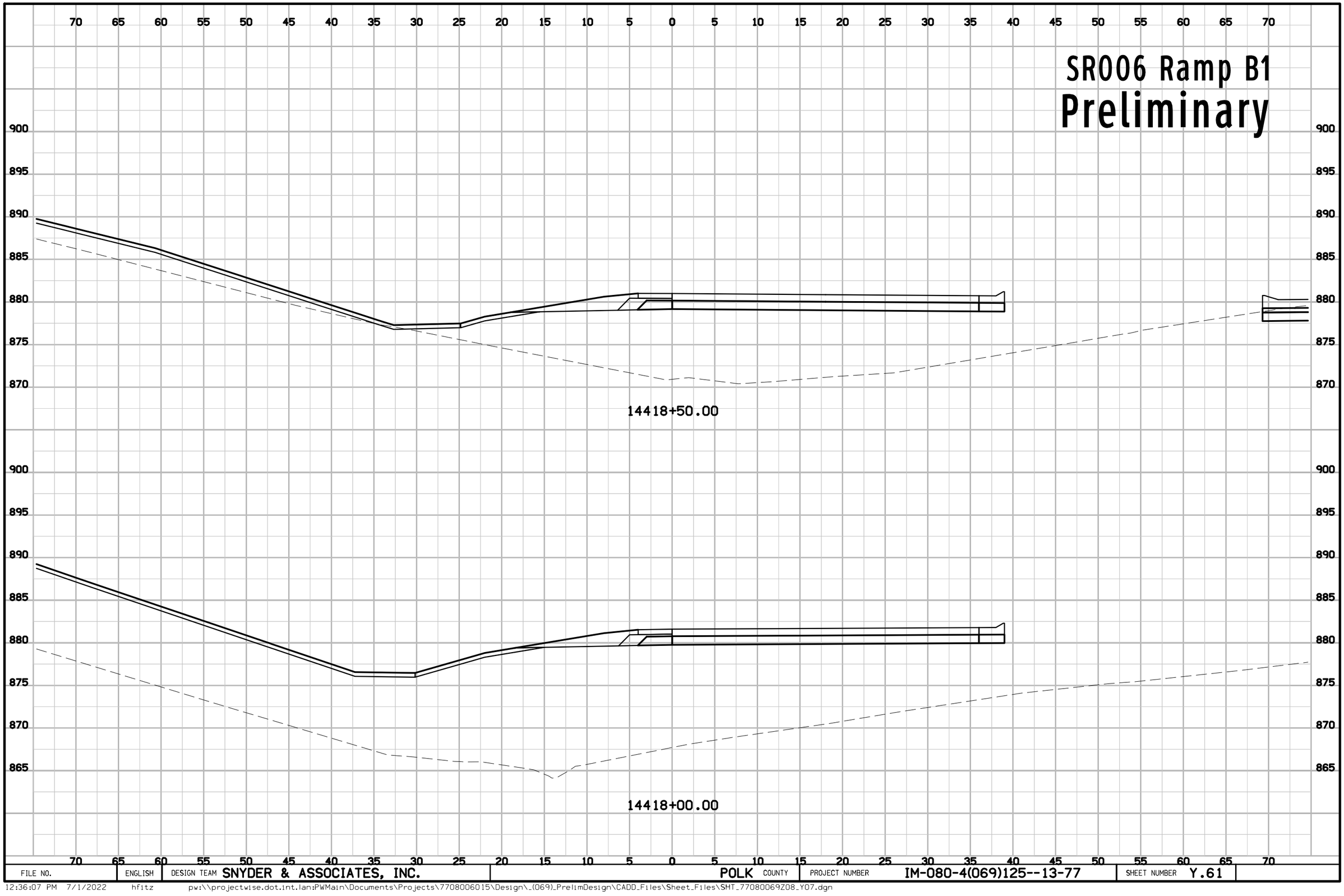
SR006 Ramp B1

Preliminary



FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER Y.61

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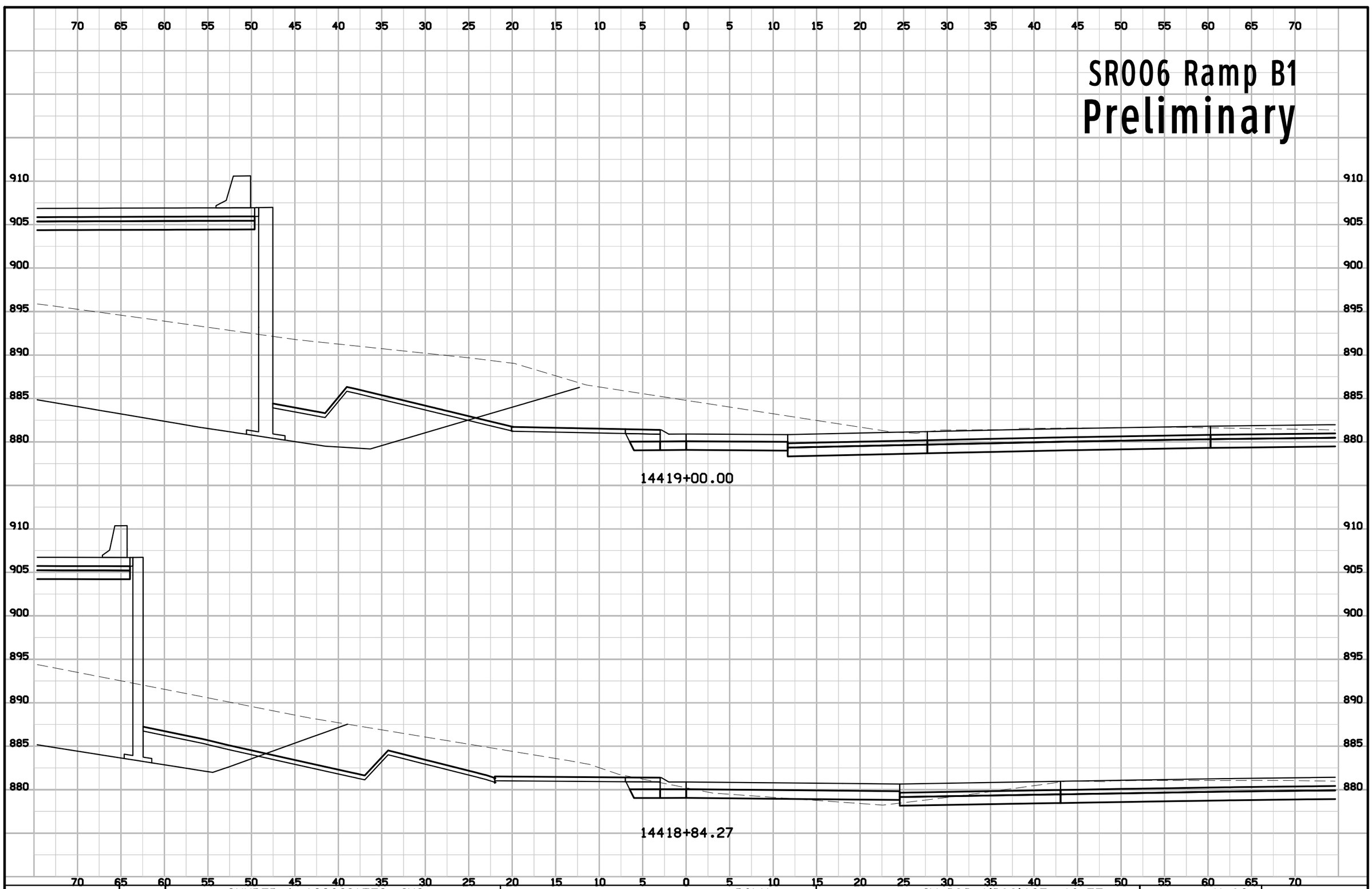
SR006 Ramp B1

Preliminary



FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER Y.62

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SR006 Ramp B1

Preliminary



FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER Y.63

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SR006 Ramp B2

Preliminary

70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70

880
875
870
865

24418+50.00

880
875
870
865

24418+00.00

880
875
870
865

24417+63.23

70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70

FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER Y.64

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SR006 Ramp B2

Preliminary

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875
870
865

24420+00.00

875
870
865

24419+50.00

880
875
870
865

24419+00.00

70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70

FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER Y.65

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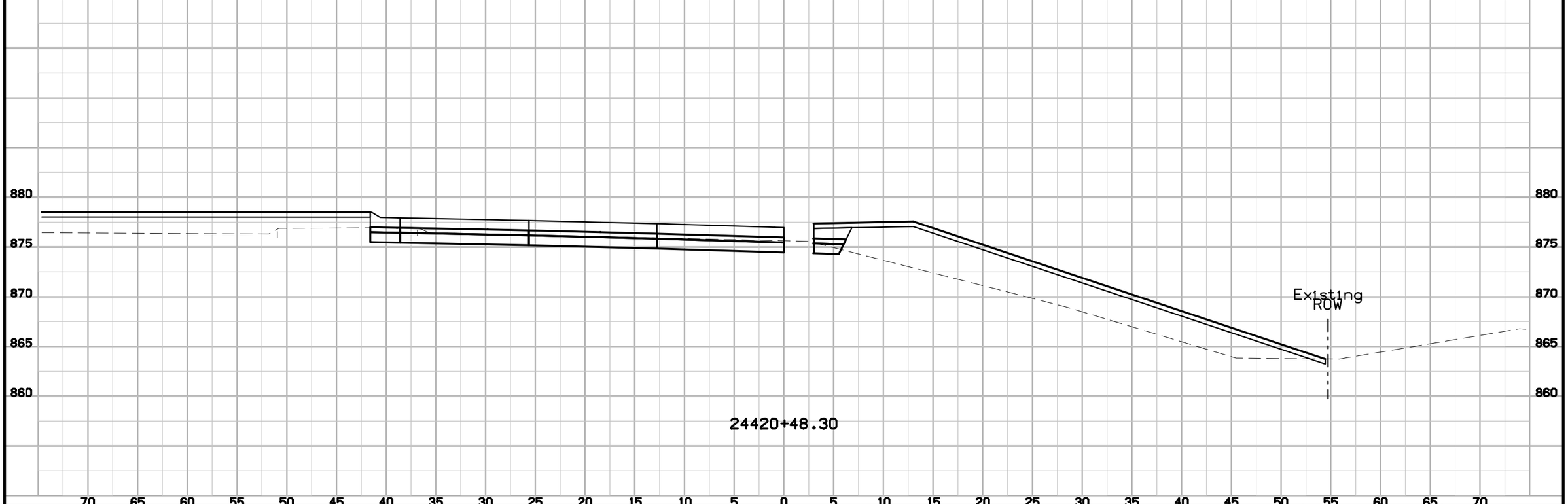
SR006 Ramp B2

Preliminary



FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER Y.66

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SR006 Ramp C

Preliminary

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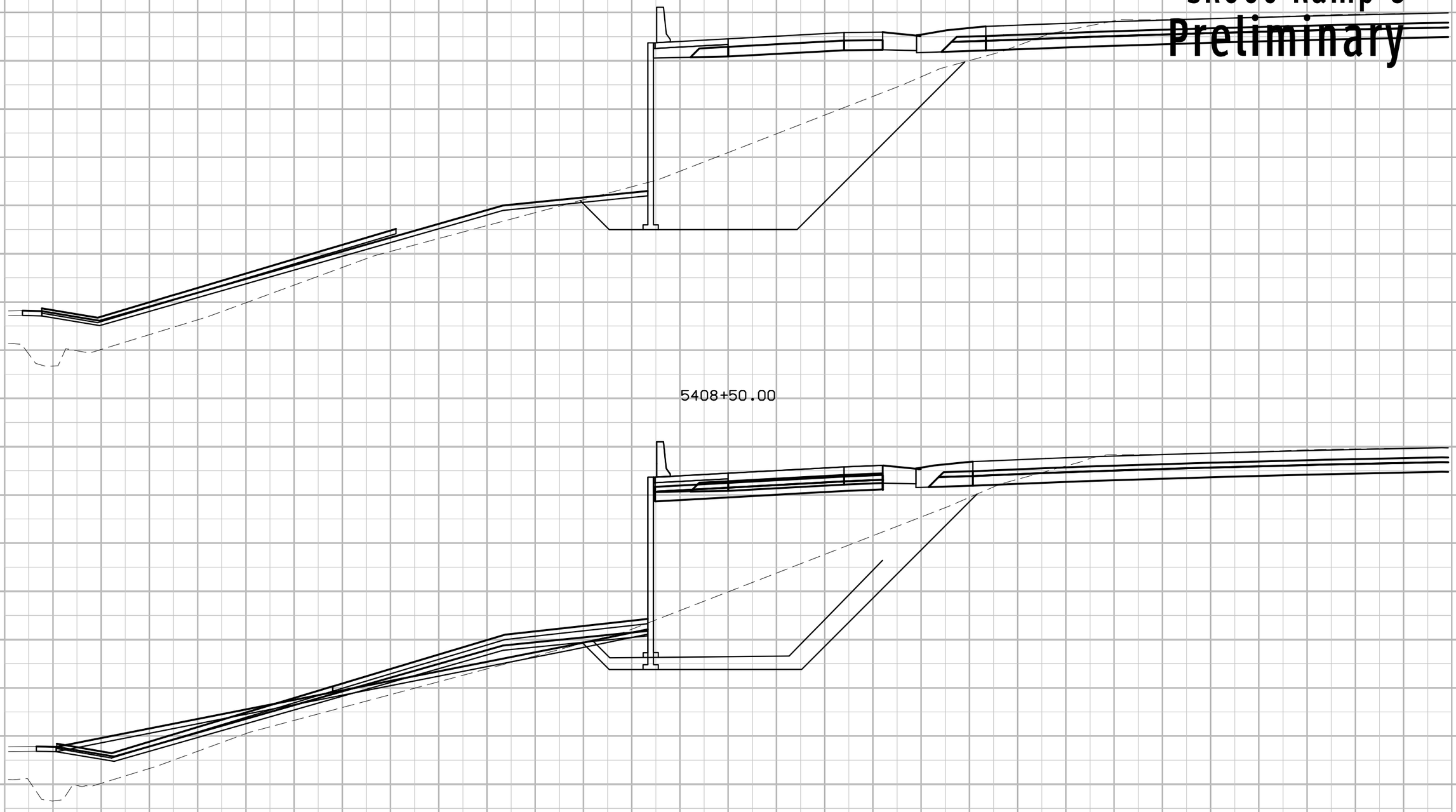
5408+50.00



5408+41.80

FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER Y.67

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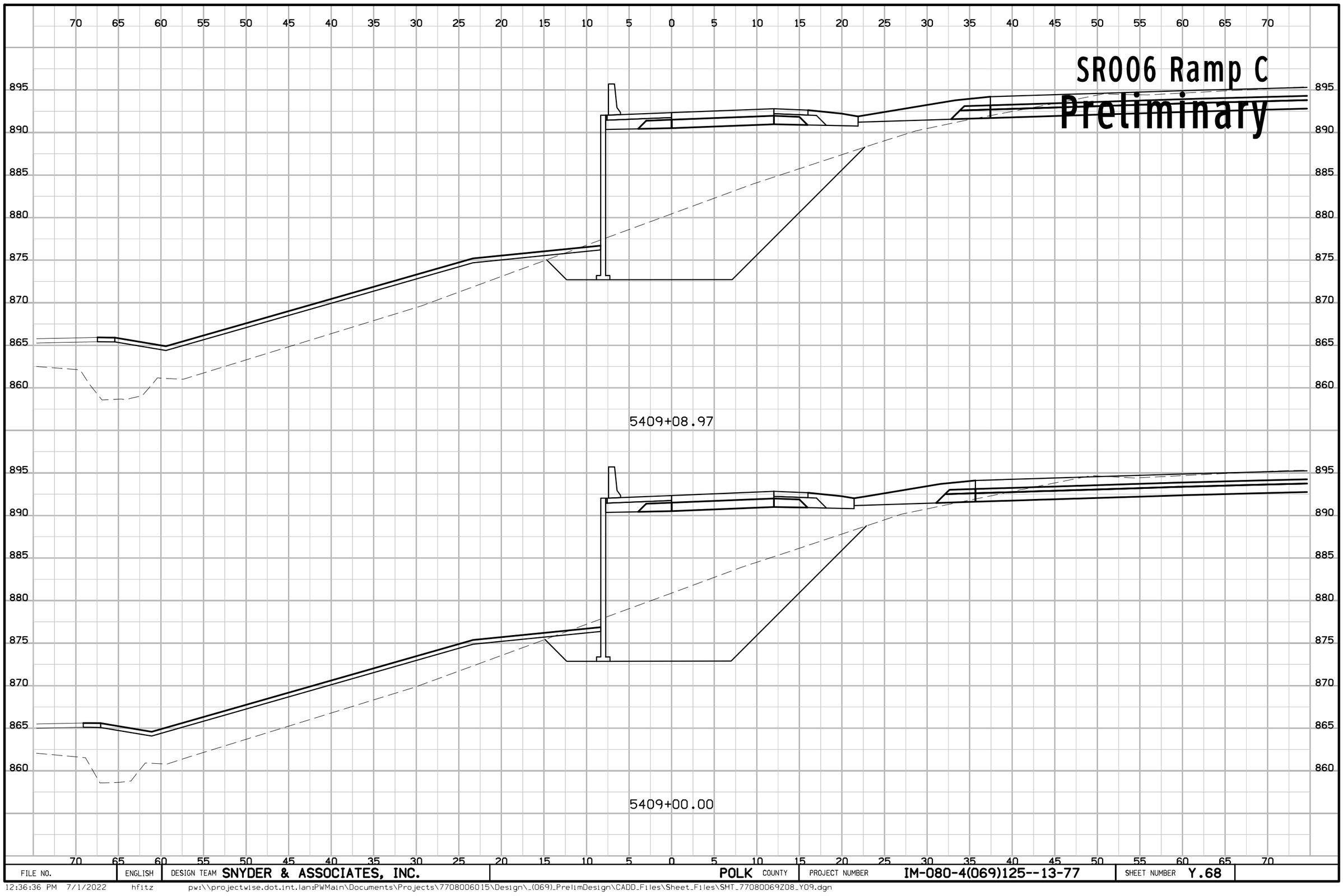
SR006 Ramp C

Preliminary



FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER Y.68

12:36:36 PM 7/1/2022 hfitz pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\7708006015\Design_(069)_PrelimDesign\CADD_Files\Sheet_Files\SHT_7708006908_Y09.dgn

SR006 Ramp C

Preliminary

70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70

895 890 885 880 875 870 865 860

Existing ROW

5410+00.00

ting
)W

5409+50.00

FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER Y.69

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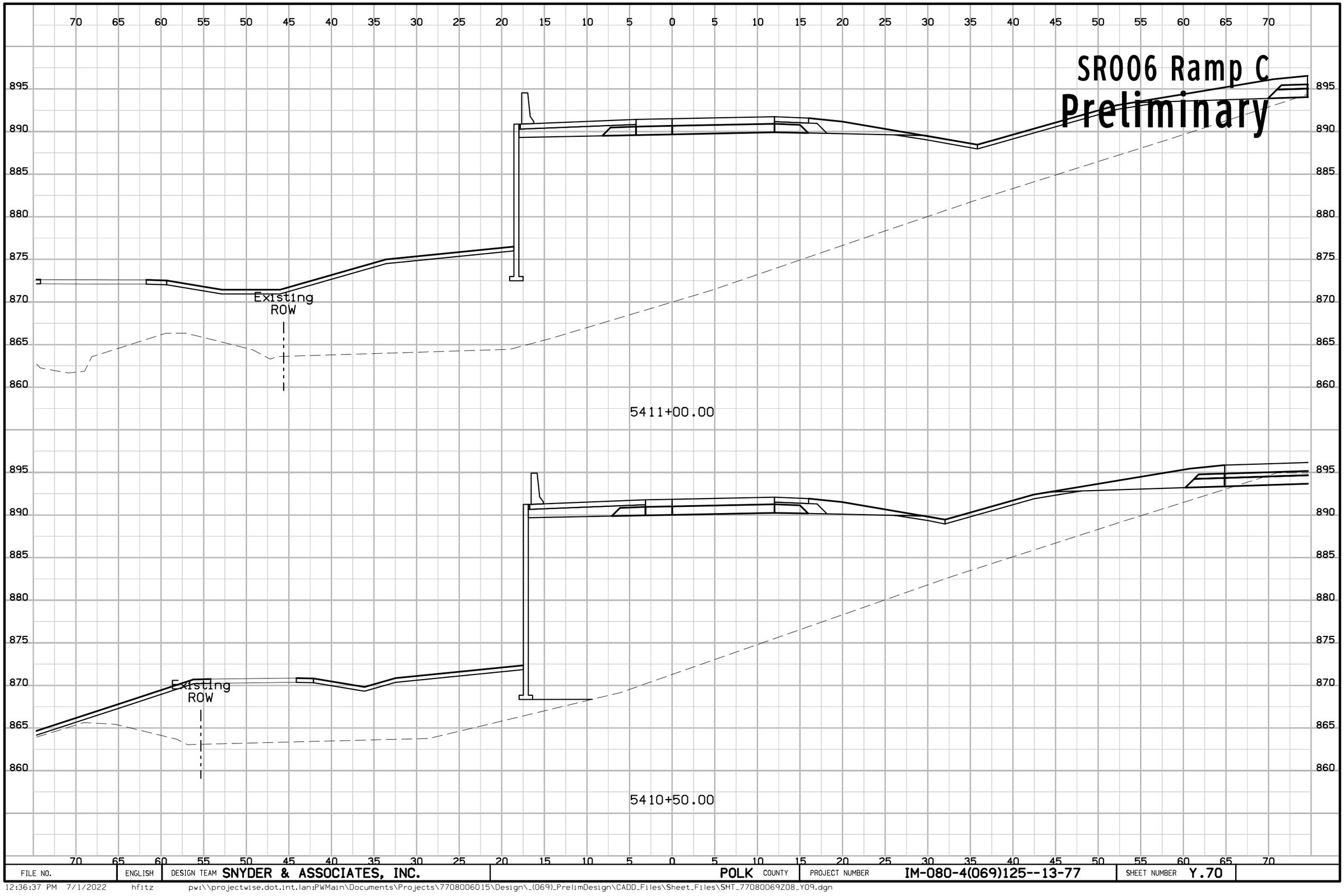
SR006 Ramp C

Preliminary



FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER Y.70

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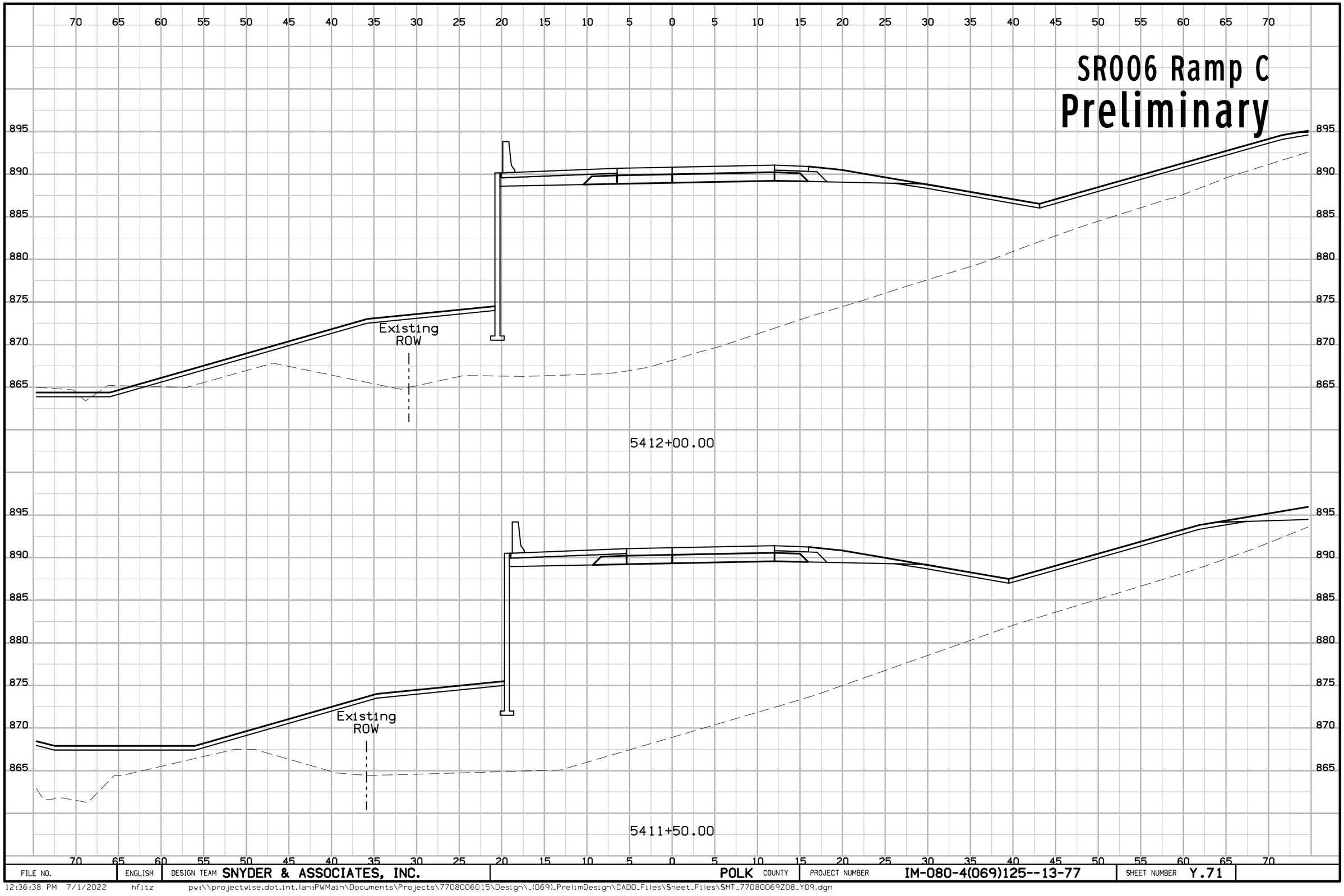
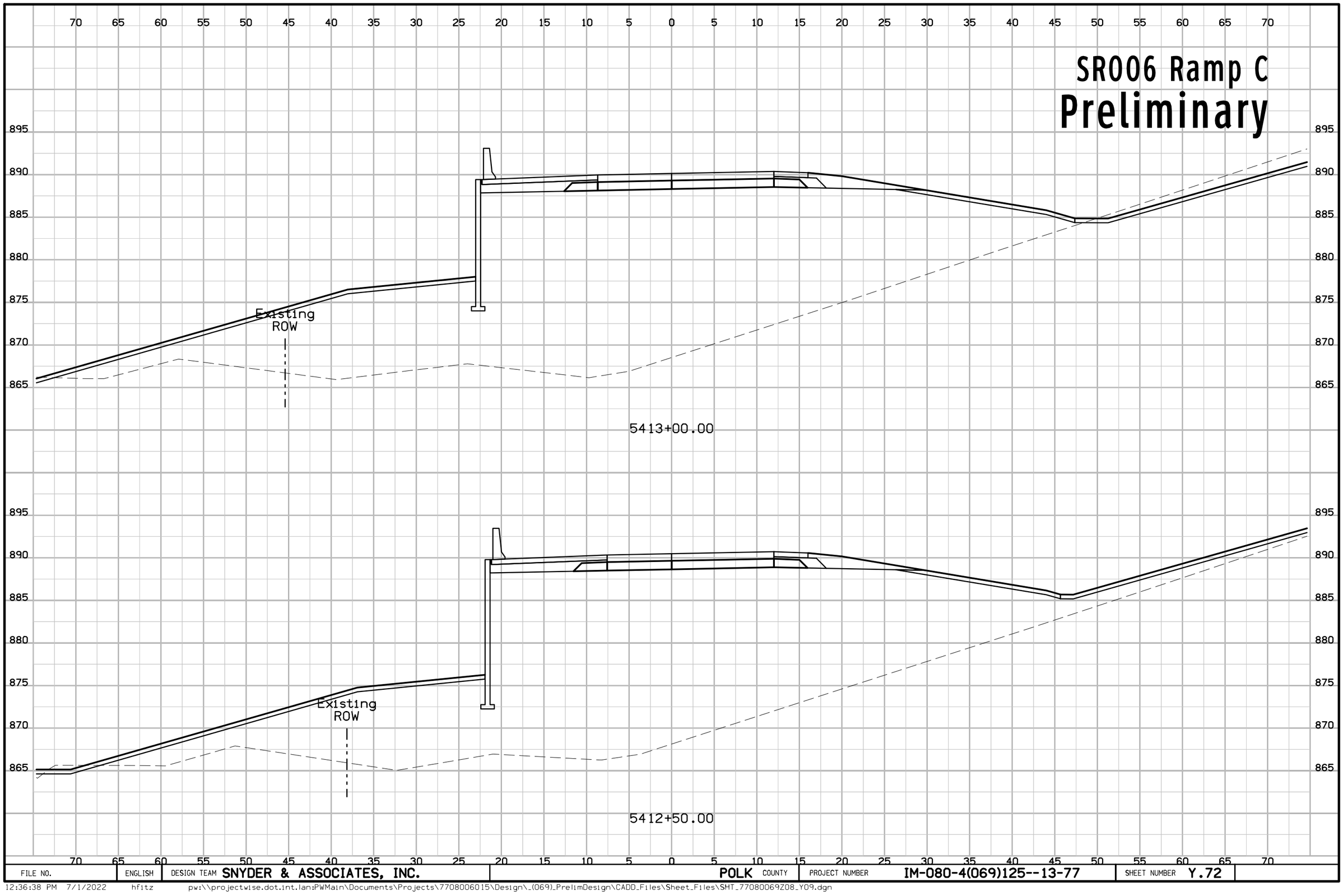
SR006 Ramp C
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER Y.71

12:36:38 PM 7/1/2022 hfitz pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\7708006015\Design_(069)_PrelimDesign\CADD_Files\Sheet_Files\SHT_77080069Z08_Y09.dgn

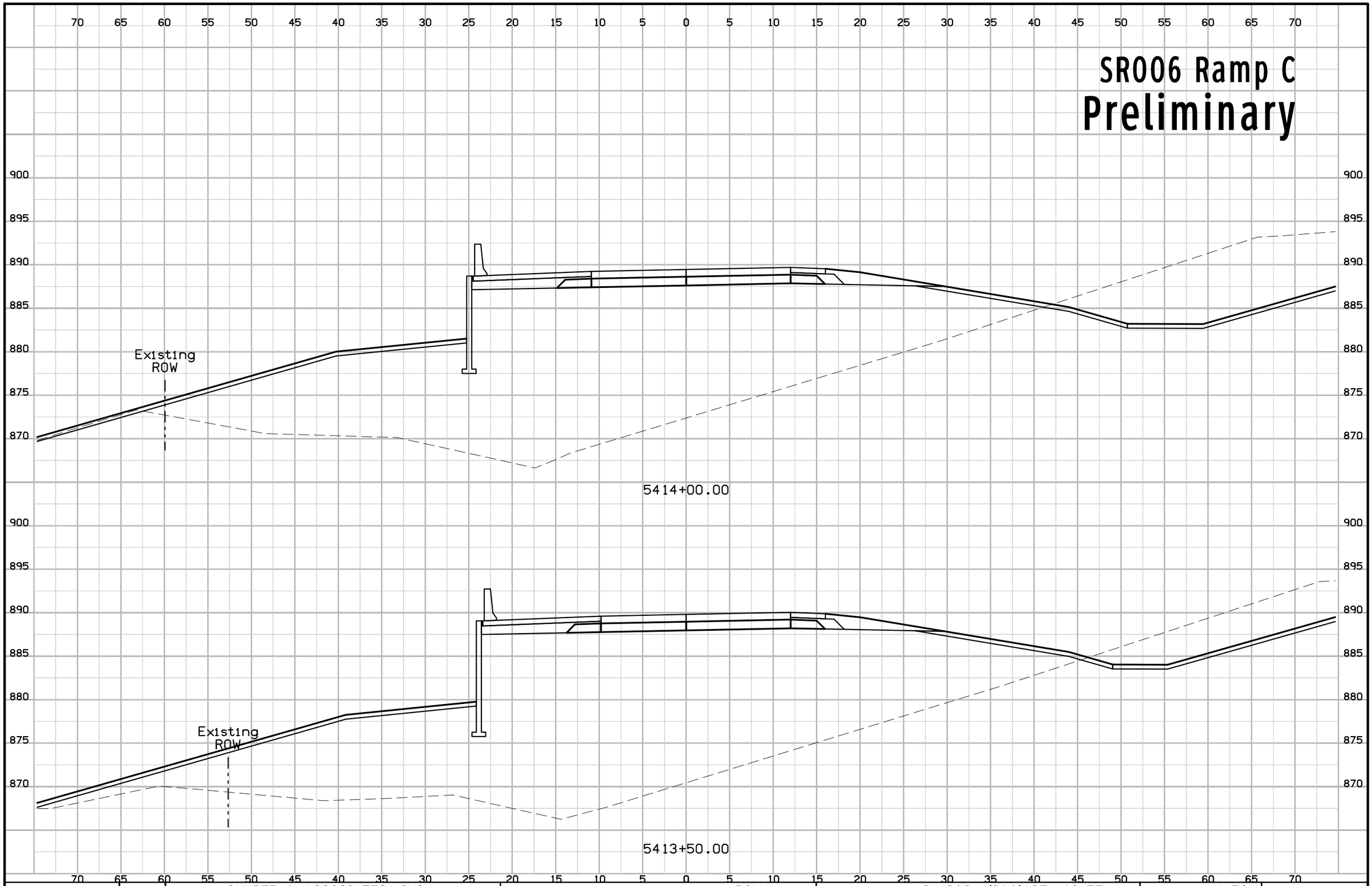
SR006 Ramp C
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER Y.72

12:36:38 PM 7/1/2022 hfitz pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\7708006015\Design_(069)_PrelimDesign\CADD_Files\Sheet_Files\SHT_77080069Z08_Y09.dgn

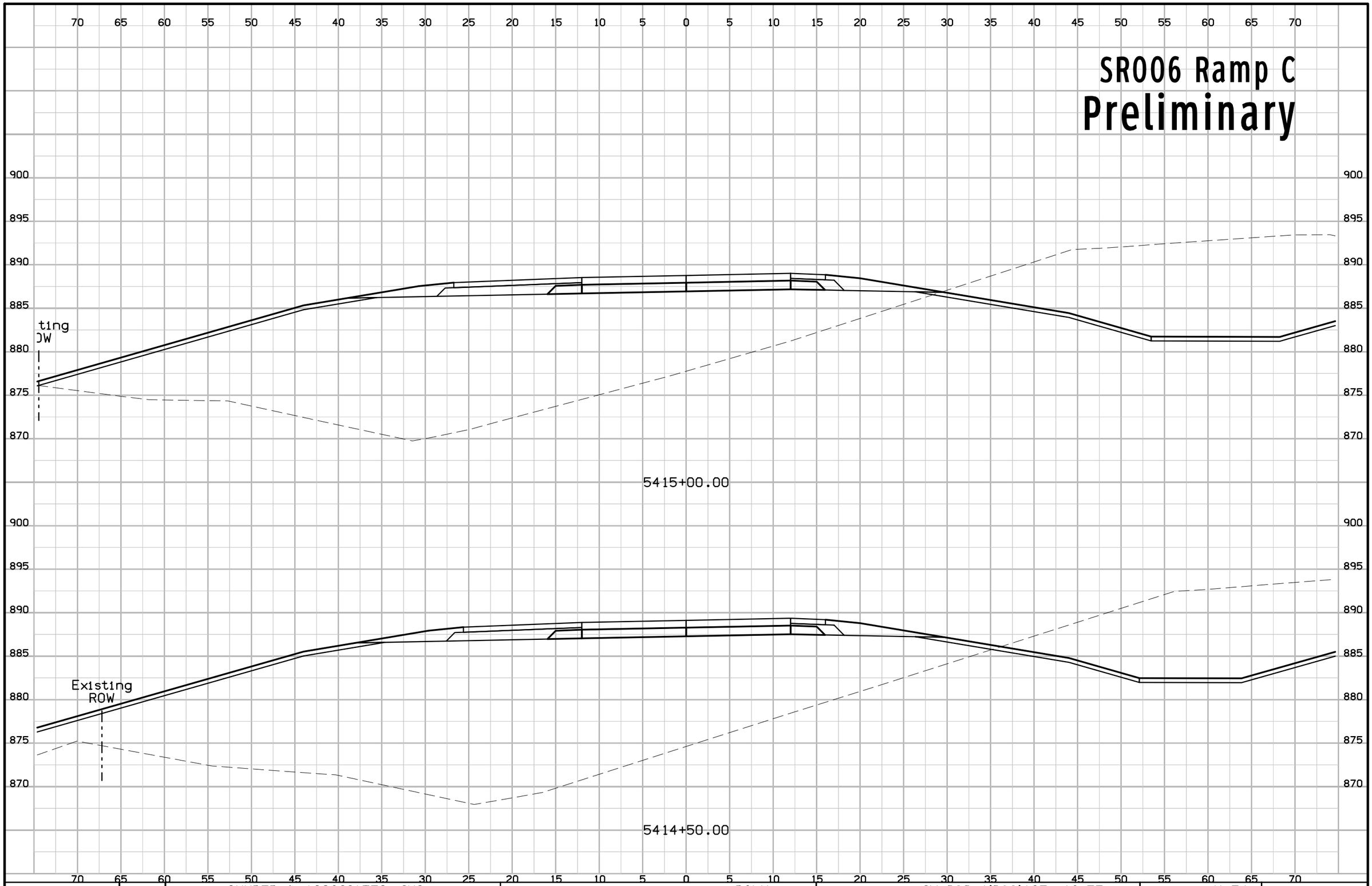
SR006 Ramp C
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER Y.73

12:36:38 PM 7/1/2022 hfitz pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\7708006015\Design_(069)_PrelimDesign\CADD_Files\Sheet_Files\SHT_77080069Z08_Y09.dgn

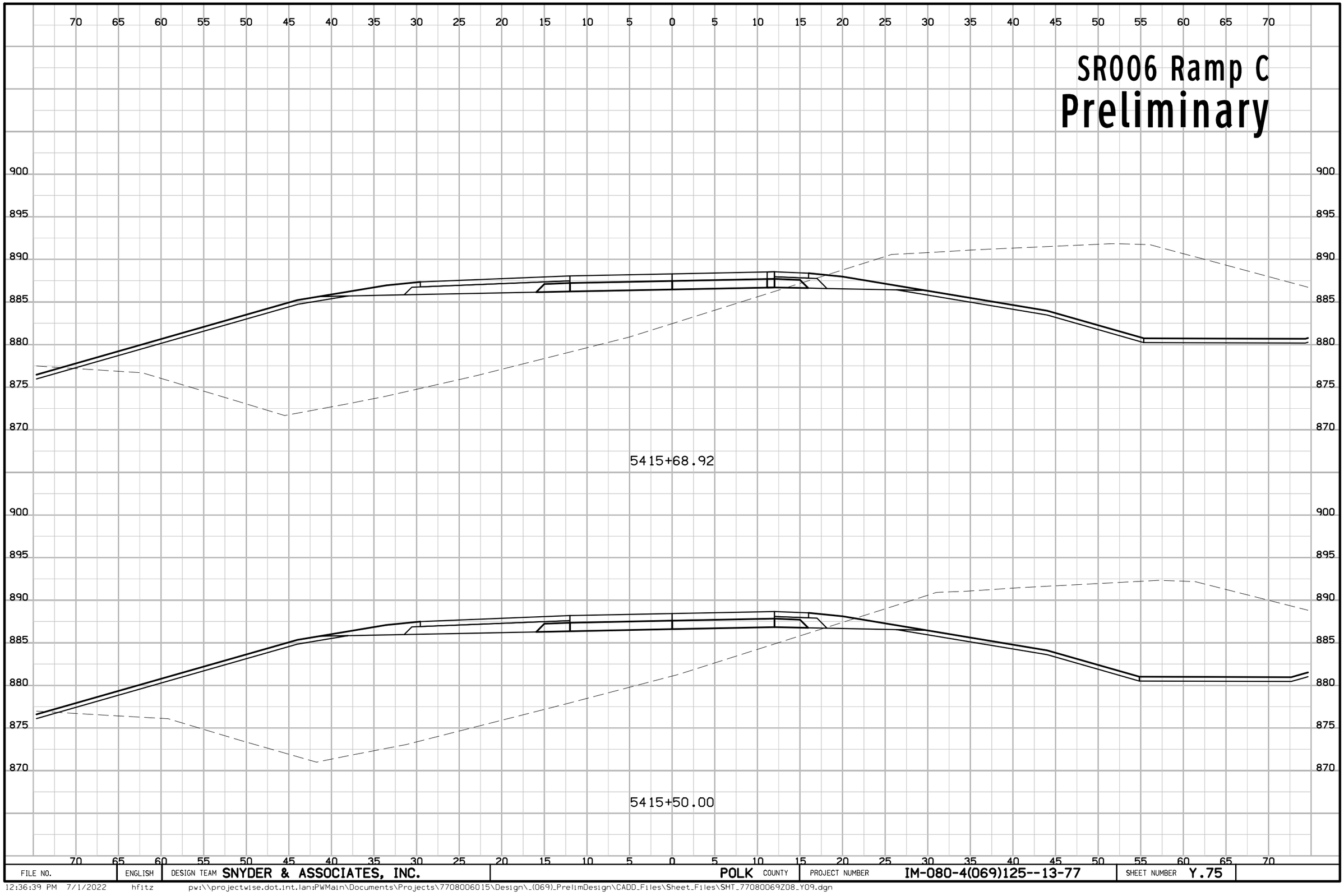
SR006 Ramp C
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER Y.74

12:36:39 PM 7/1/2022 hfitz pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\7708006015\Design_(069)_PrelimDesign\CADD_Files\Sheet_Files\SHT_7708006908_Y09.dgn

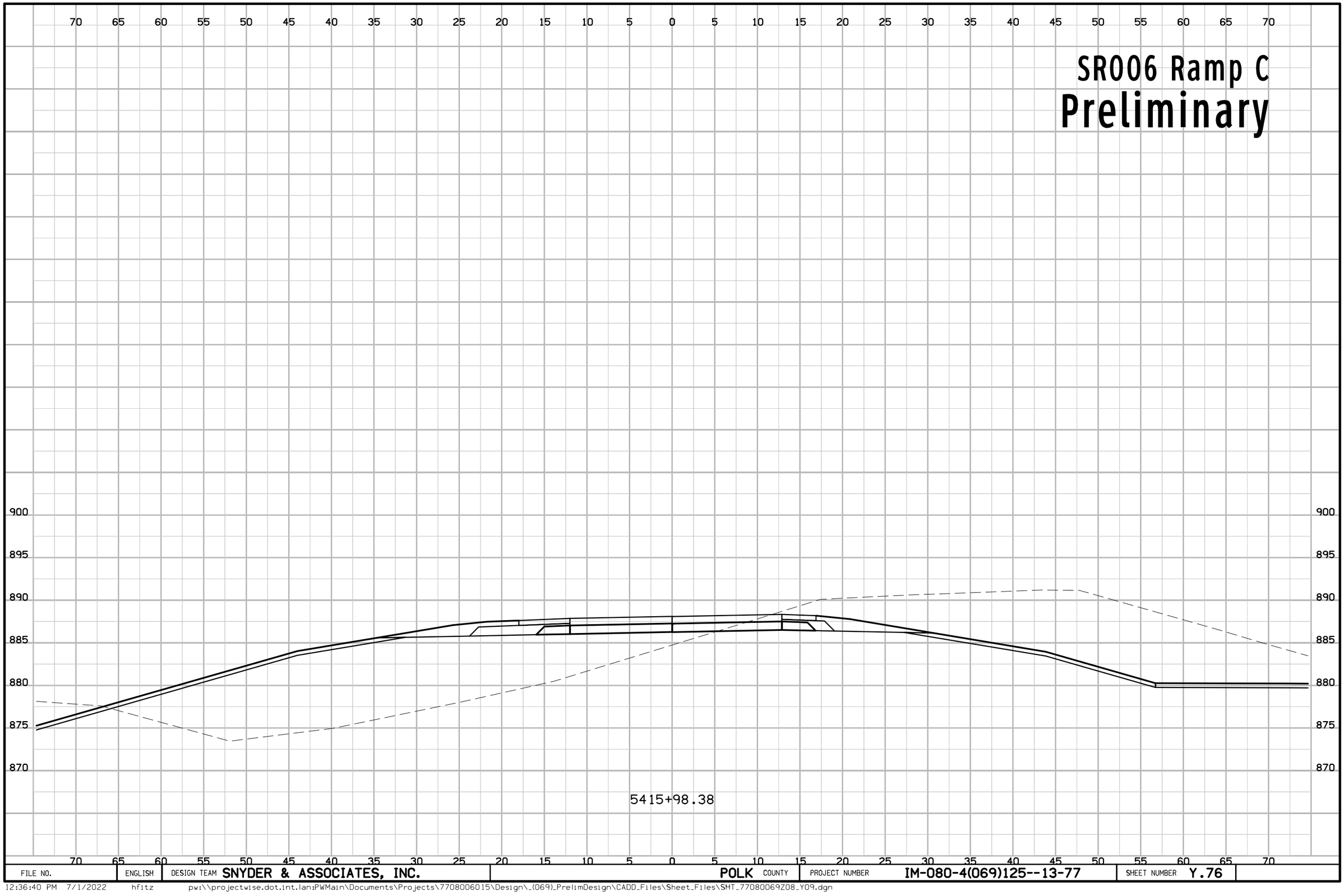
SR006 Ramp C
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER Y.75

12:36:39 PM 7/1/2022 hfitz pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\7708006015\Design_(069)_PrelimDesign\CADD_Files\Sheet_Files\SHT_77080069Z08_Y09.dgn

SR006 Ramp C
Preliminary

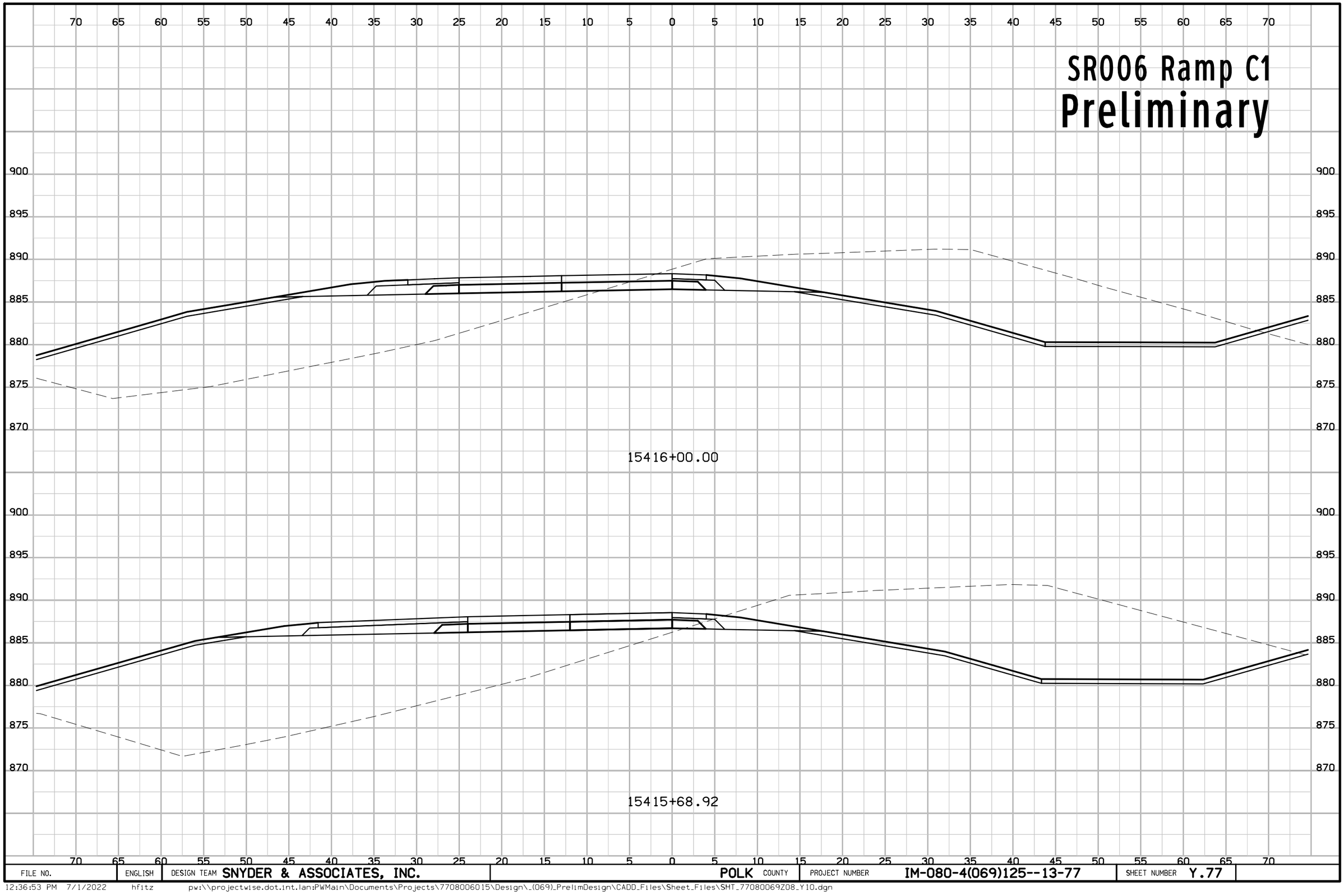


FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER Y.76

12:36:40 PM 7/1/2022 hfitz pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\7708006015\Design_(069)_PrelimDesign\CADD_Files\Sheet_Files\SHT_77080069Z08_Y09.dgn

SR006 Ramp C1

Preliminary



FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER Y.77

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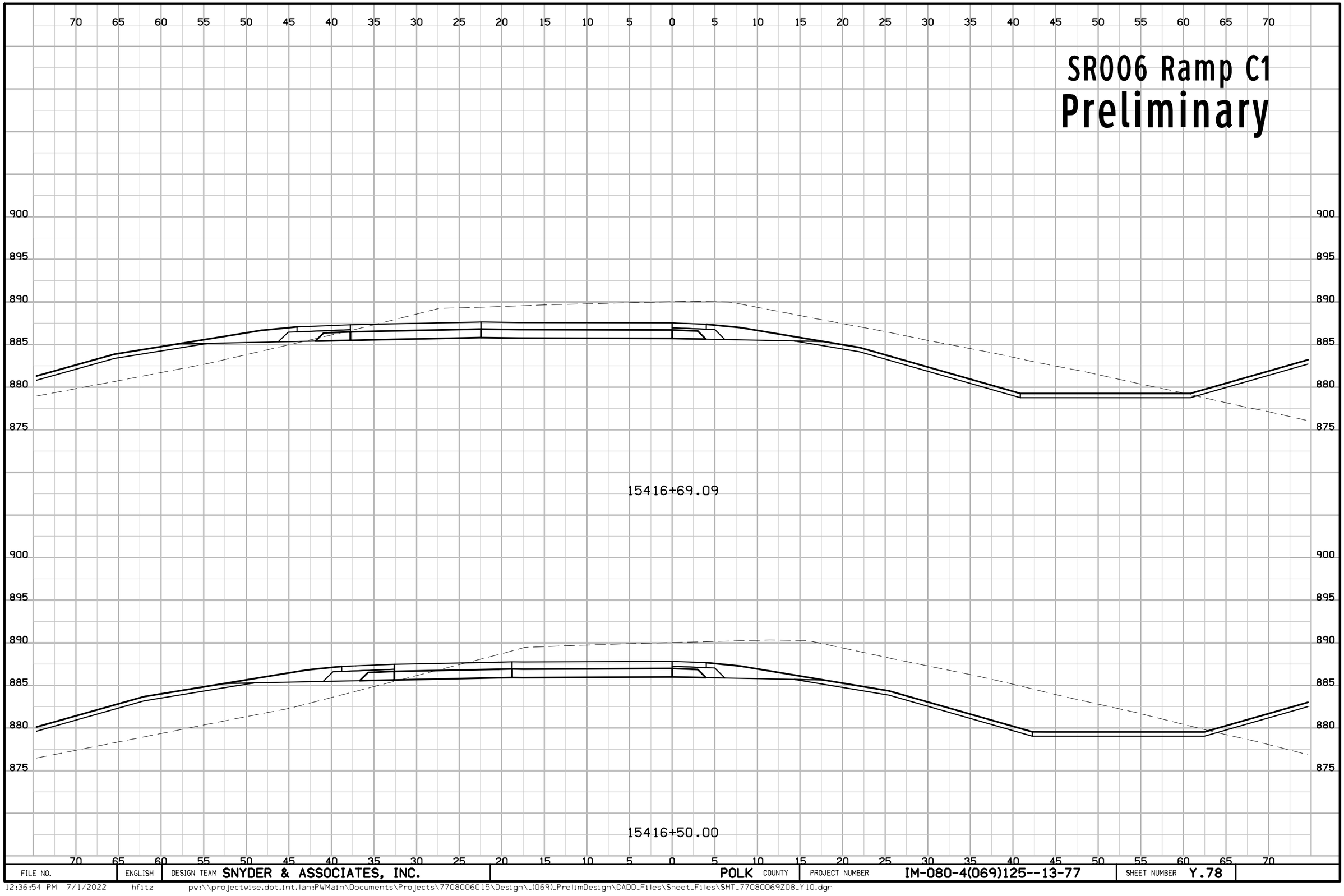
SR006 Ramp C1

Preliminary



FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER Y.78

12:36:54 PM 7/1/2022 hfitz pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\7708006015\Design_(069)_PrelimDesign\CADD_Files\Sheet_Files\SHT_77080069Z08_Y10.dgn

SR006 Ramp C1

Preliminary

70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70

890
885
880
875

15417+50.00

885
880
875

15417+04.45

900
895
890
885
880
875

15417+00.00

70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70

FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER Y.79

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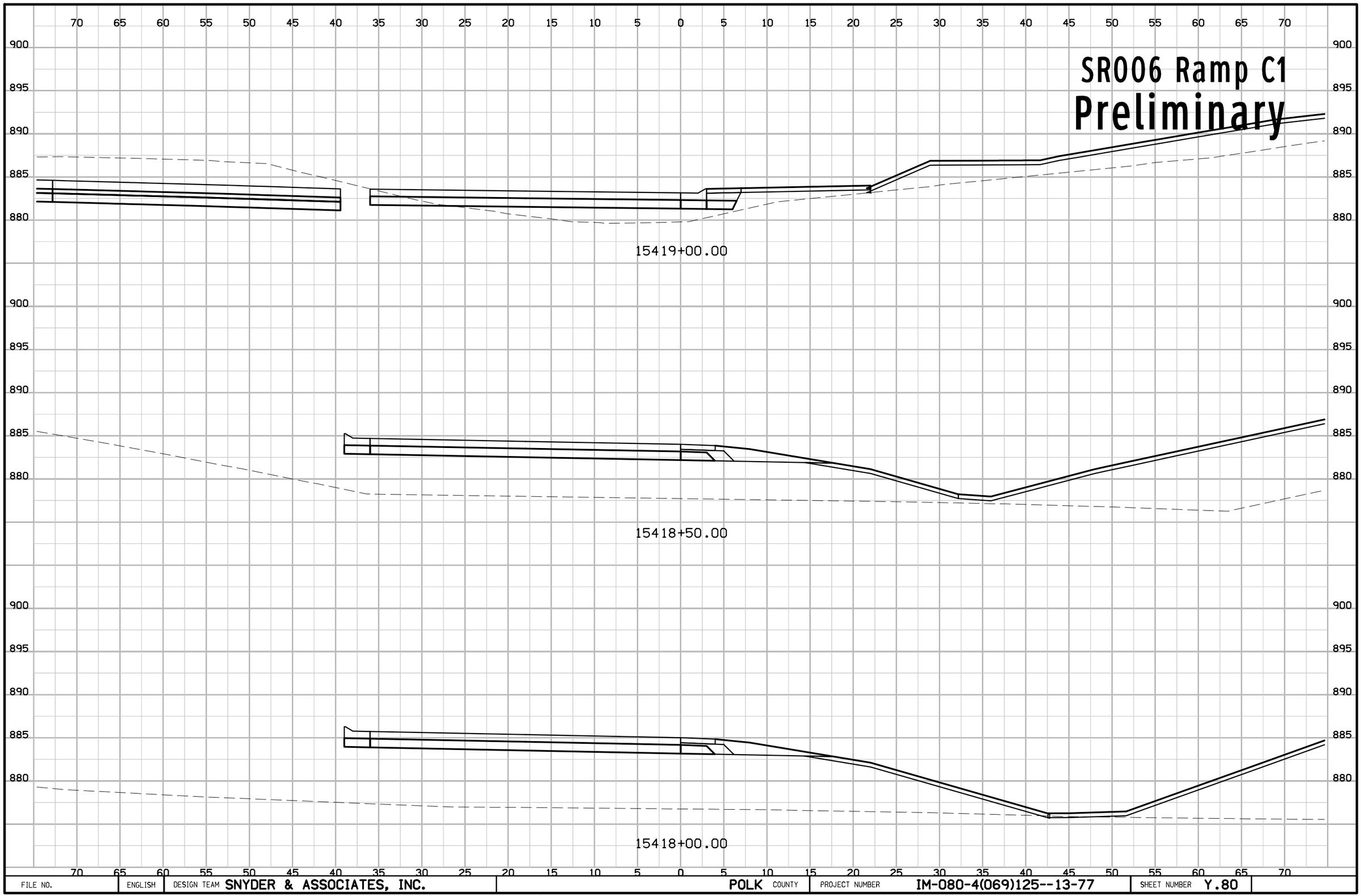
SR006 Ramp C1

Preliminary



FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER Y.80

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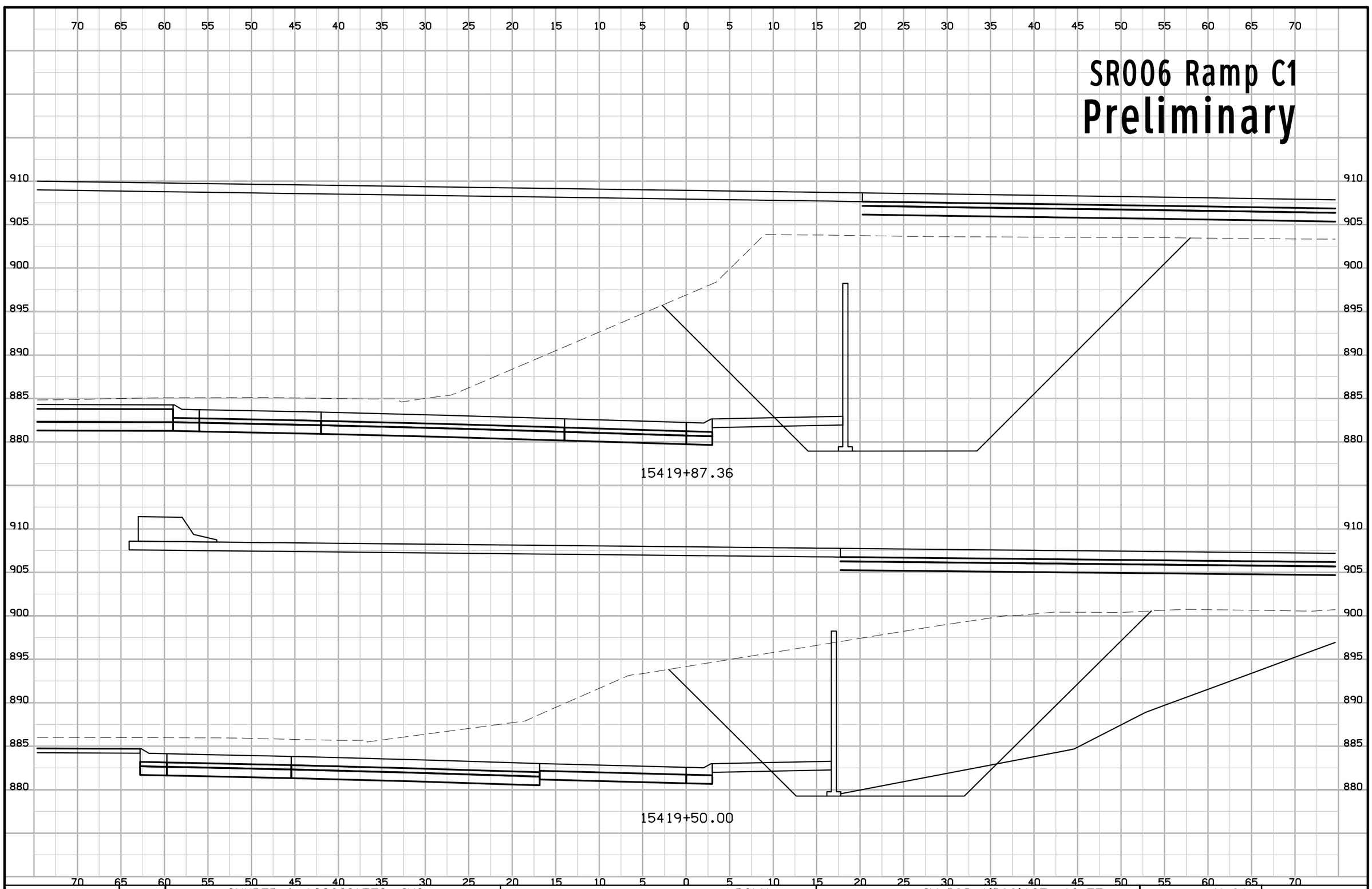
SR006 Ramp C1

Preliminary



FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER Y.81

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SR006 Ramp C2

Preliminary

70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70

895 890 885 880 875 870

25416+00.00

25415+98.39

FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER Y.82

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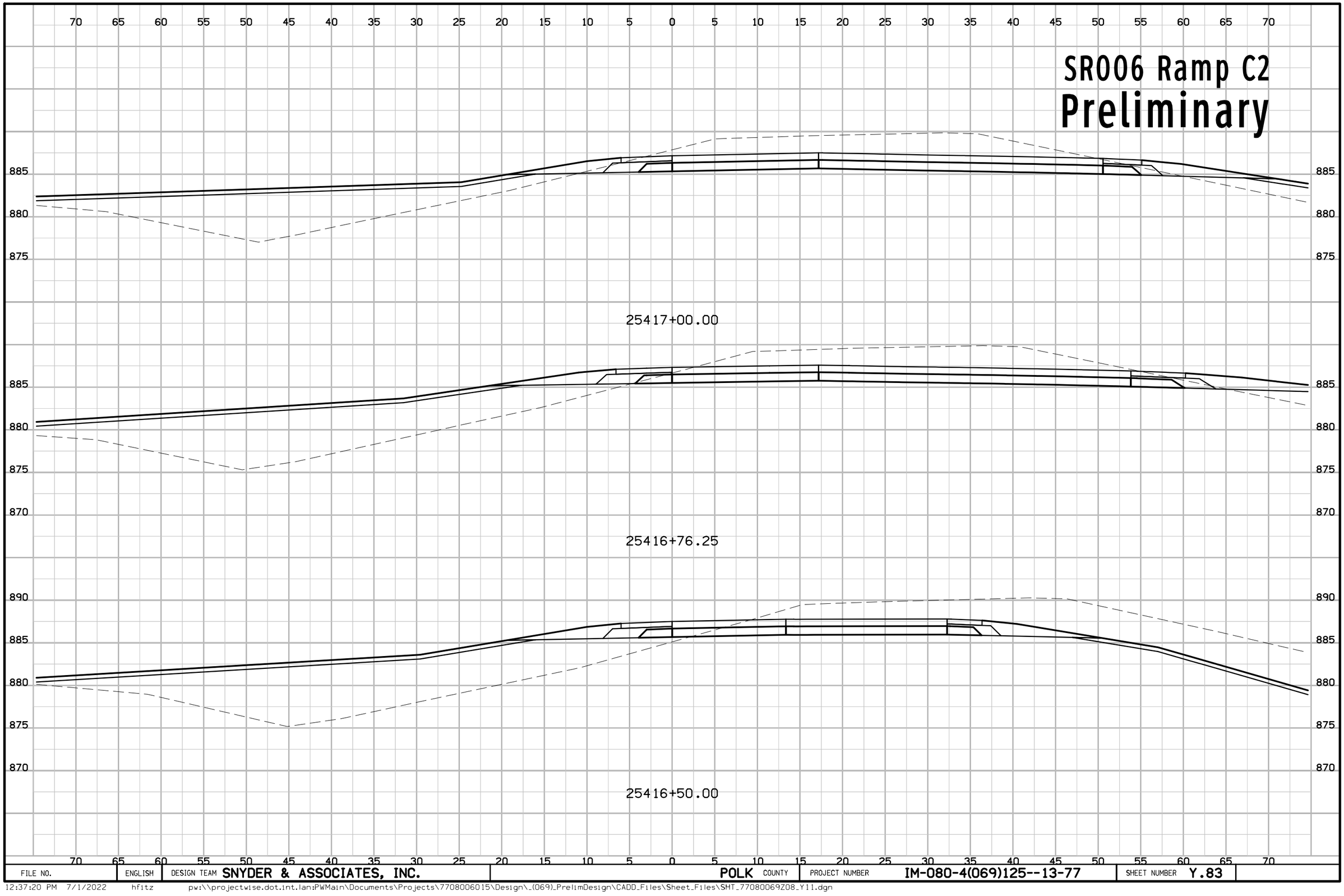
SR006 Ramp C2

Preliminary



FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER Y.83

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SR006 Ramp C2

Preliminary

70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70

890
885
880
875

25418+00.00

885
880
875

25417+50.00

885
880
875

25417+20.94

70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70

FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER Y.84

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SR006 Ramp C2

Preliminary

70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70

890
885
880
875

25419+50.00

890
885
880
875

25419+00.00

890
885
880
875

Existing ROW

25418+50.00

70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70

FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER Y.85

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SR006 Ramp C2

Preliminary

70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70

890
885
880
875

25420+00.48

890
885
880
875

25420+00.00

70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70

FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER Y.86

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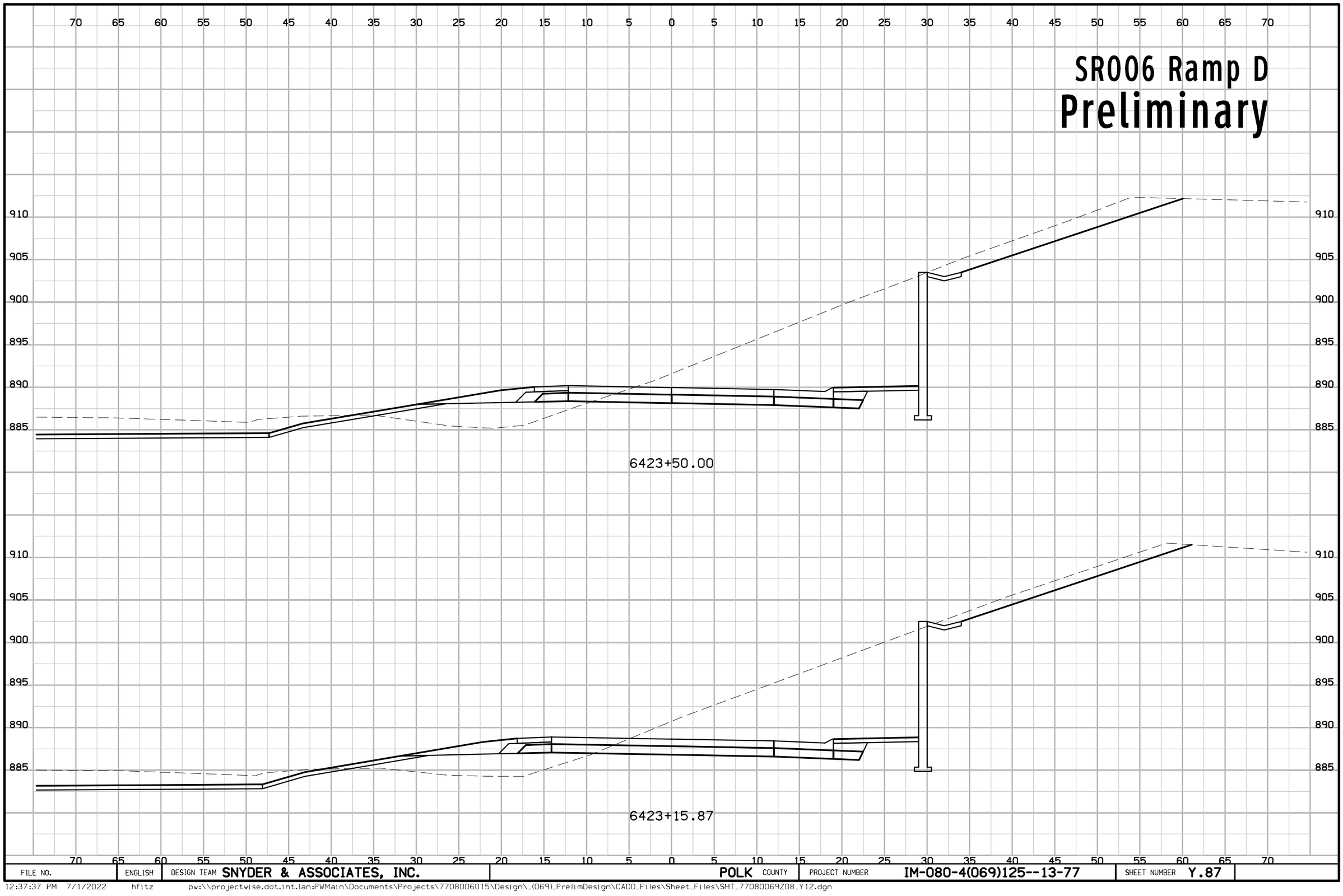
SR006 Ramp D

Preliminary



FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER Y.87

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SR006 Ramp D
Preliminary

70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70

915
910
905
900
895
890

6424+00.00

910
905
900
895
890
885

6423+61.82

70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70

FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER Y.88

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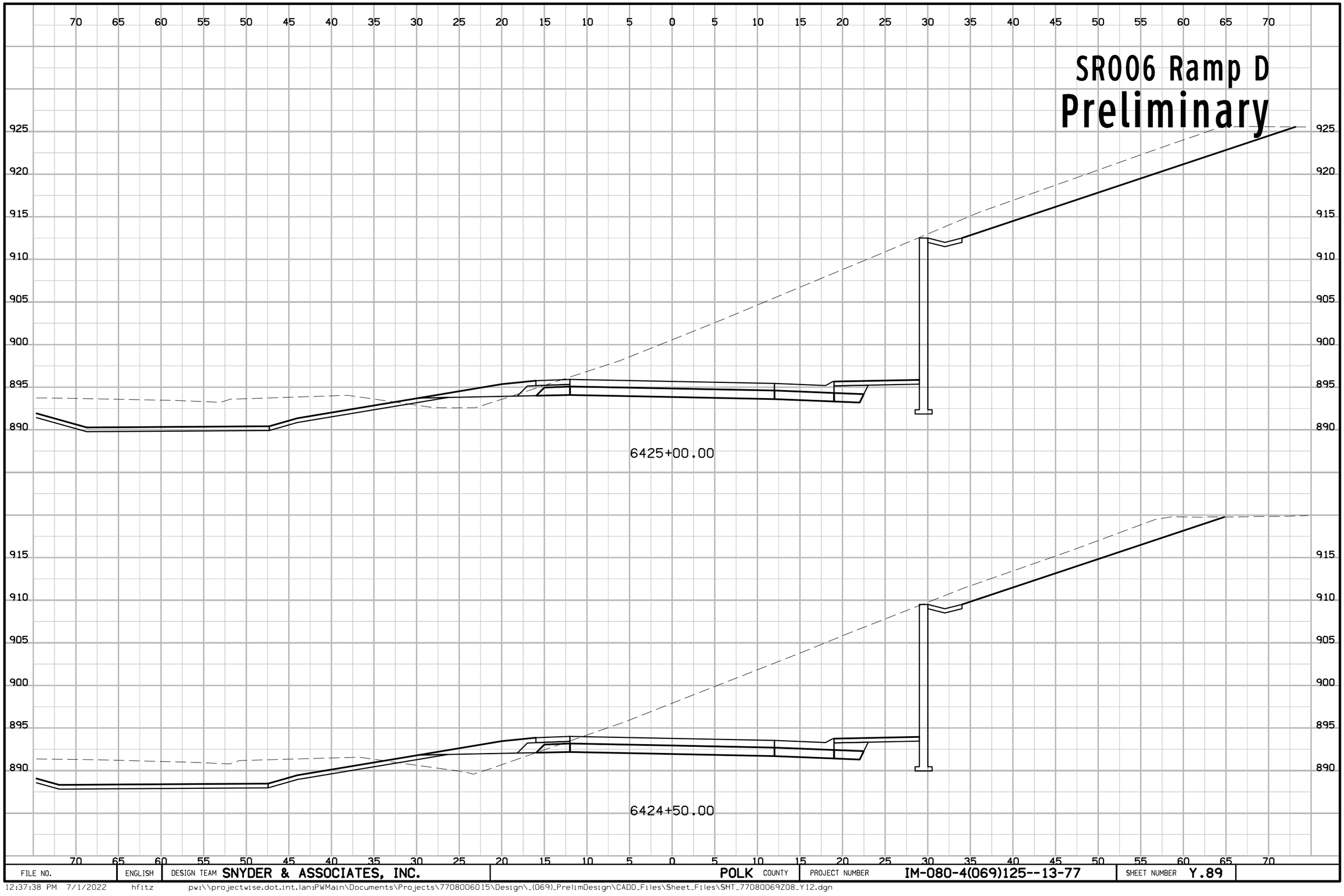
SR006 Ramp D

Preliminary



FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER Y.89

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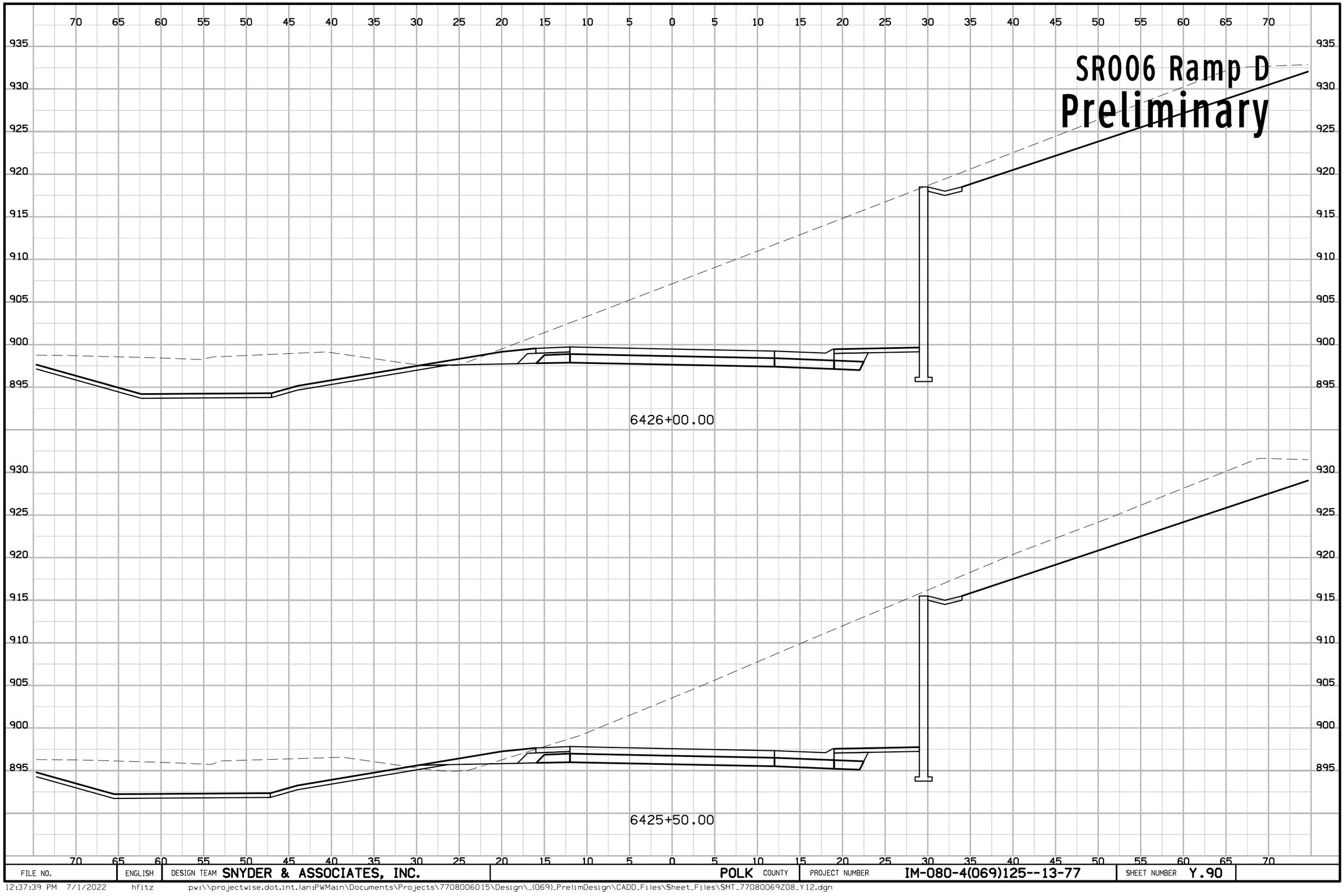
SR006 Ramp D

Preliminary



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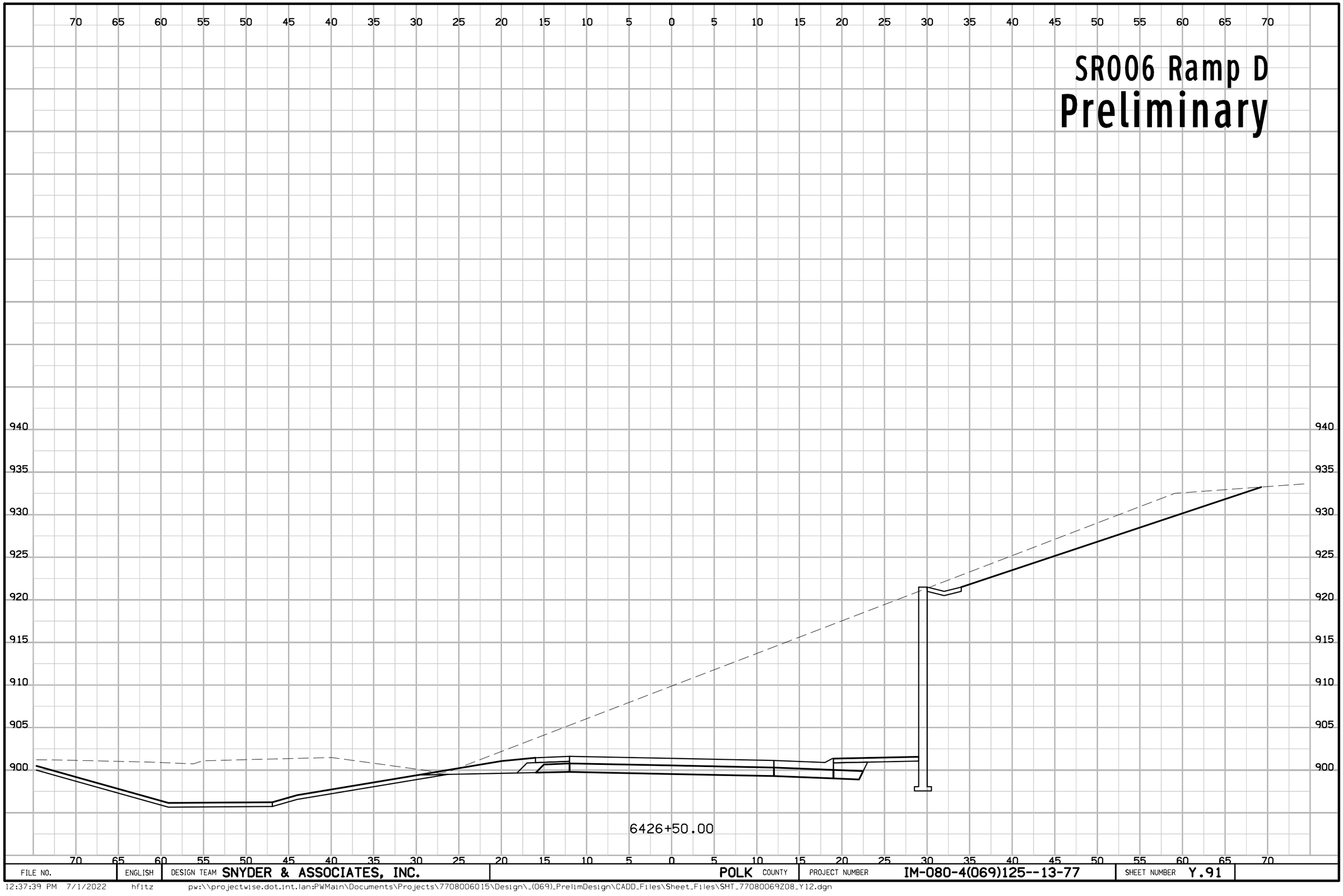
SR006 Ramp D

Preliminary



FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER Y.91

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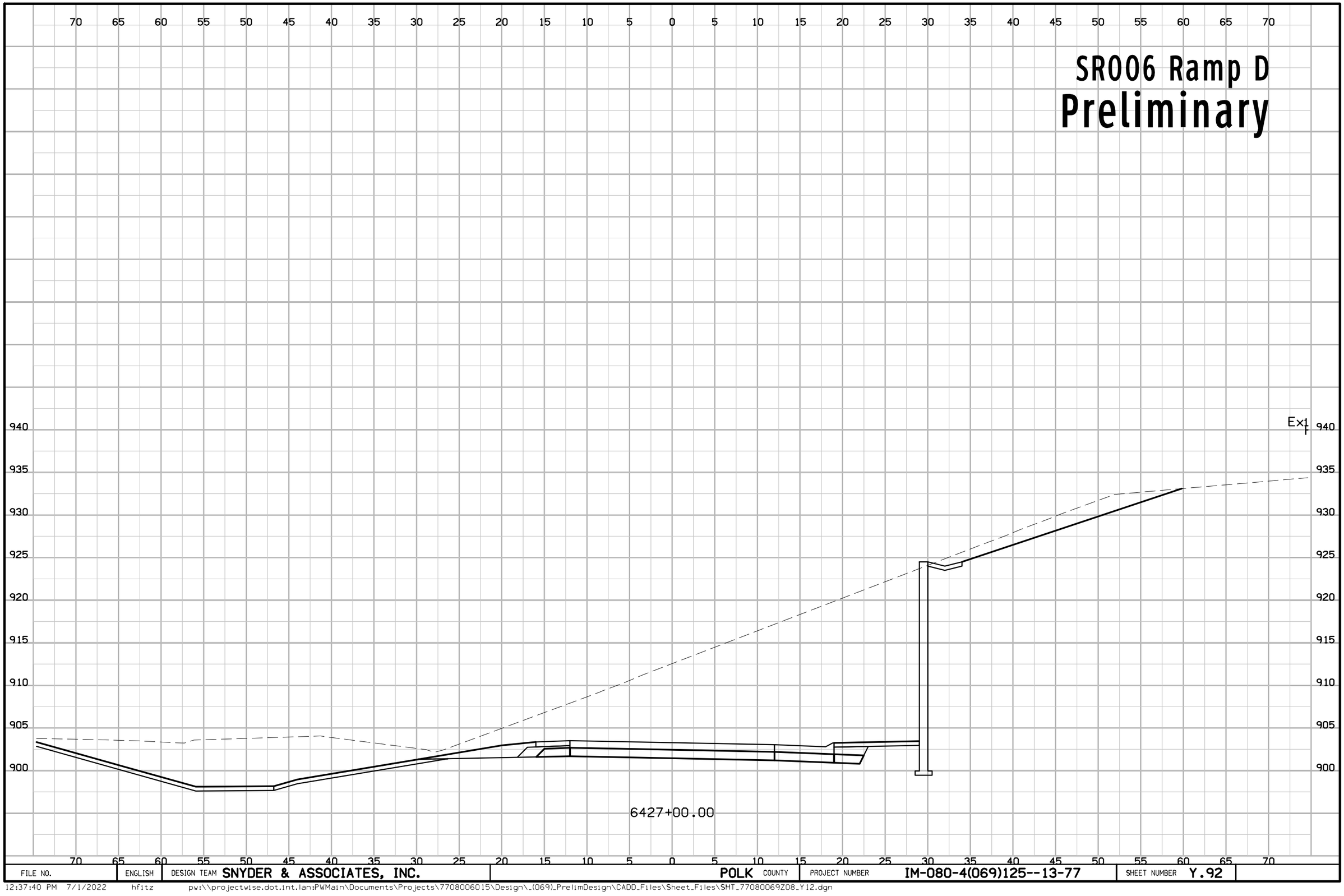
SR006 Ramp D
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER Y.92

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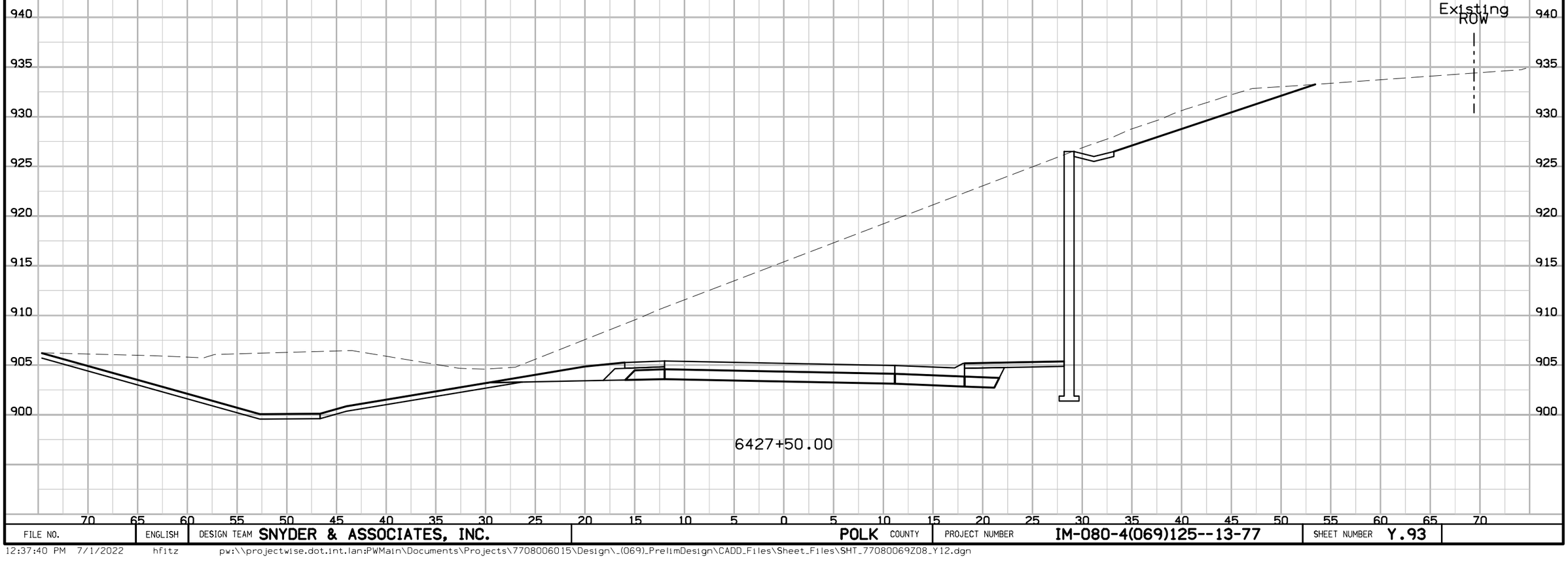
SR006 Ramp D
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER Y.93

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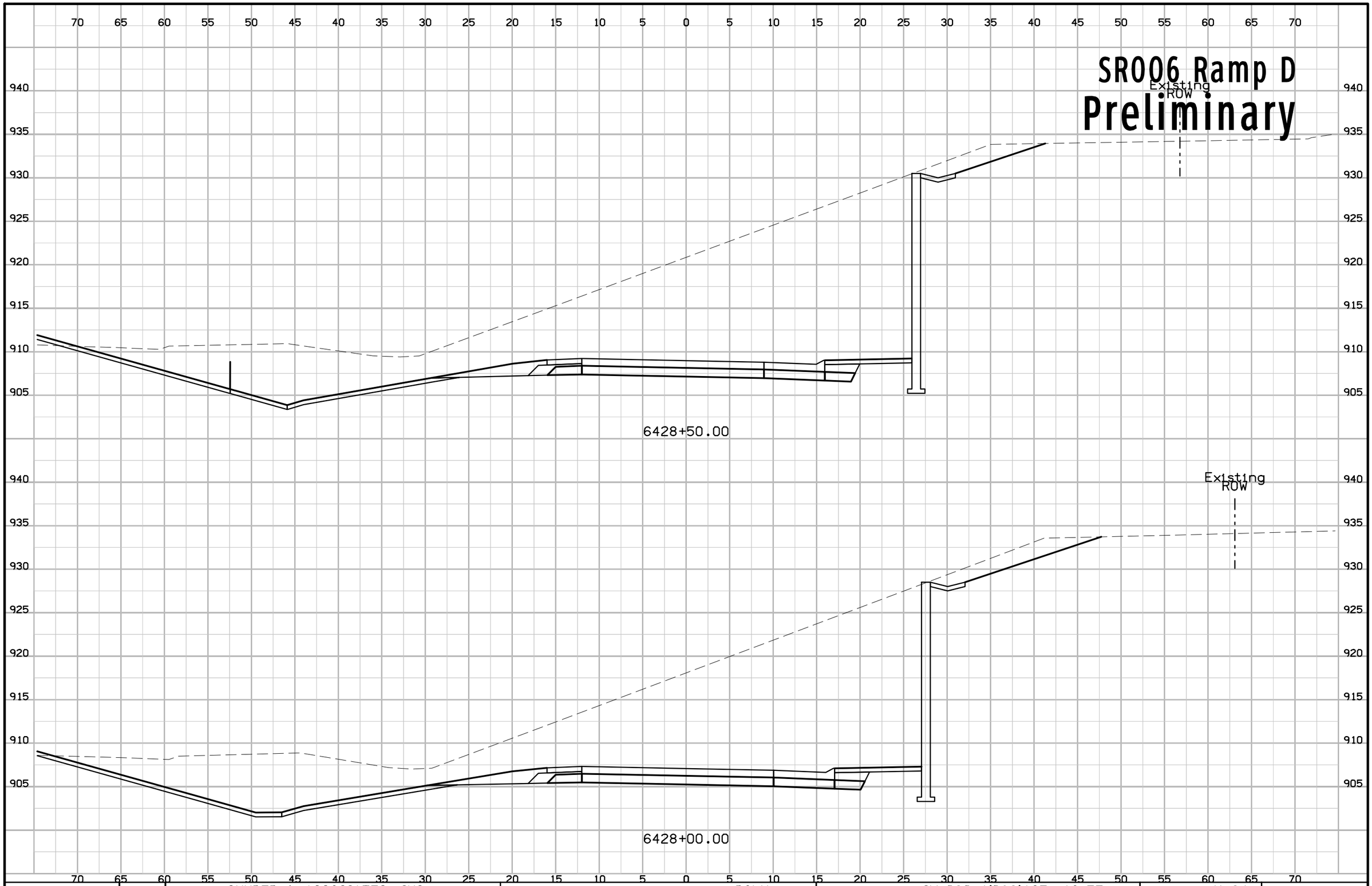
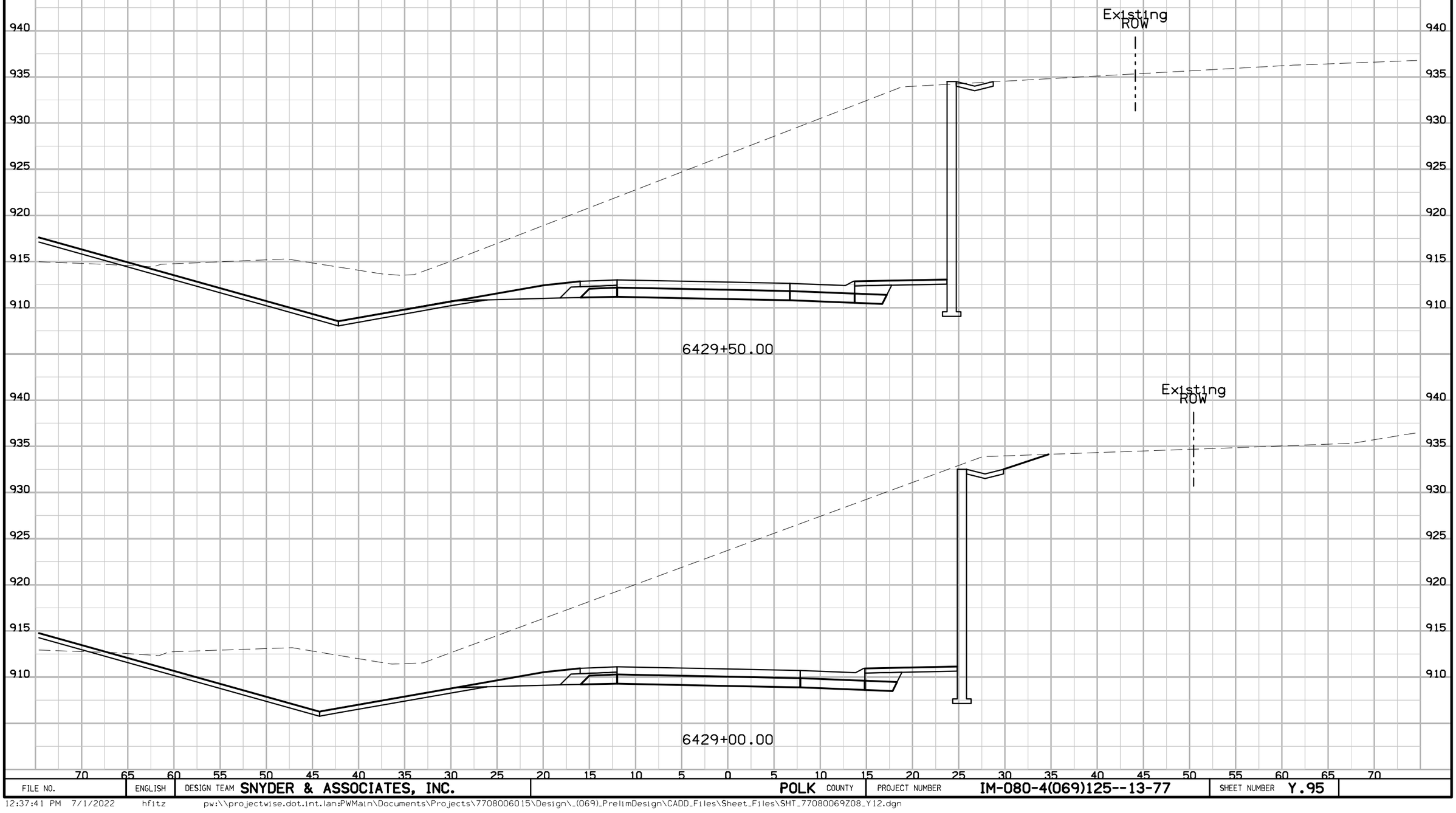
SR006 Ramp D

Preliminary



FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER Y.94

SR006 Ramp D
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER Y.95

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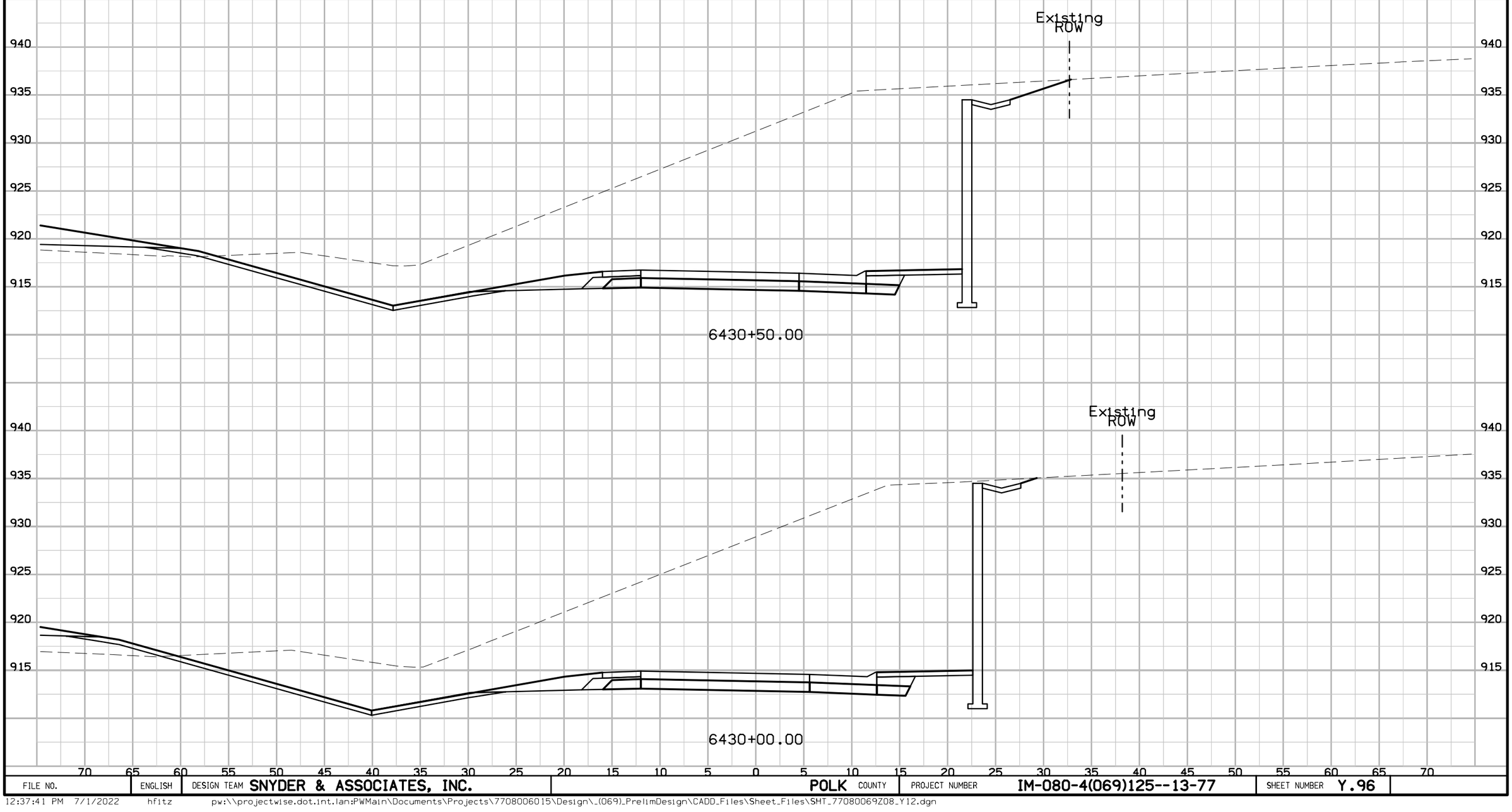
SR006 Ramp D
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER Y.96

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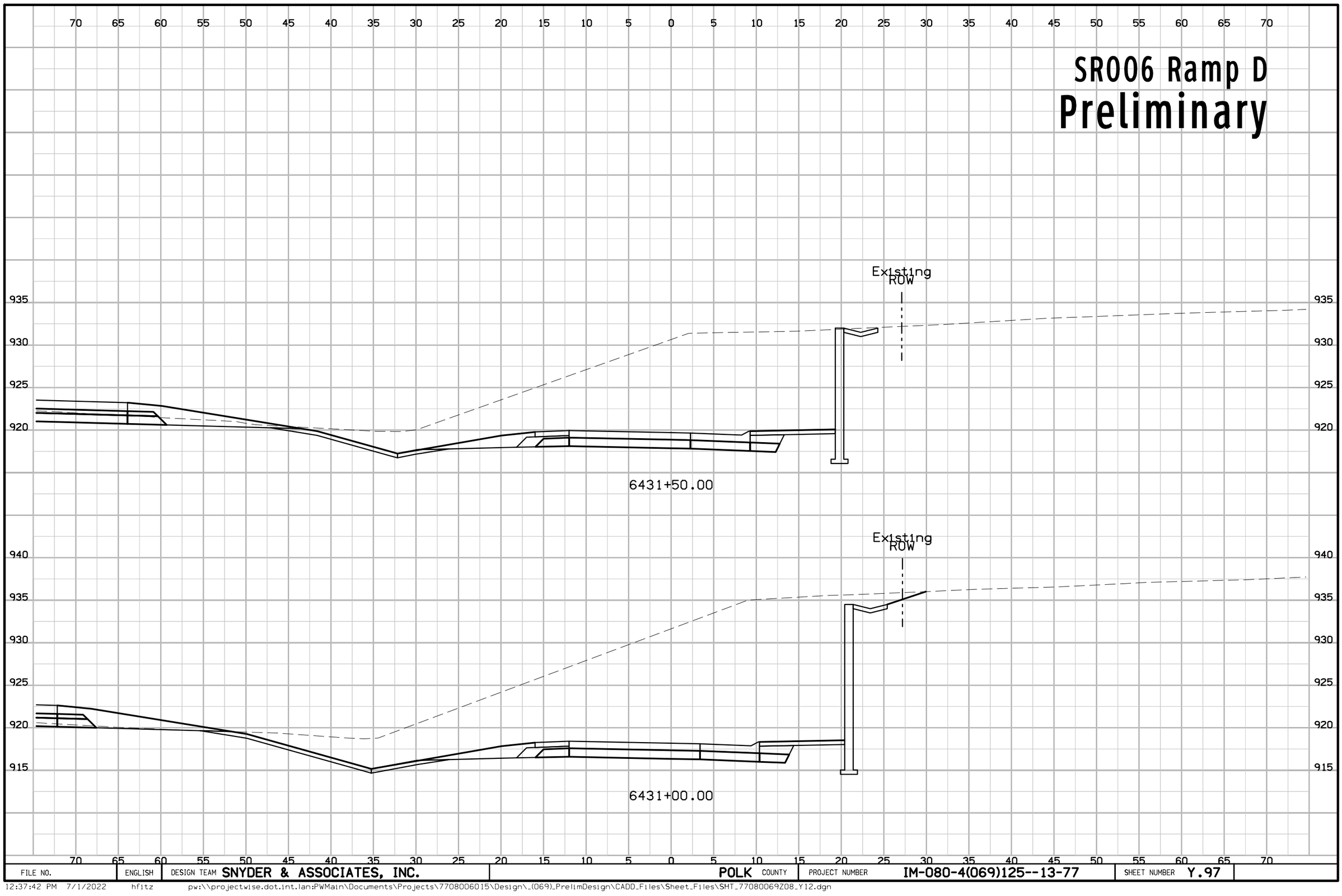
SR006 Ramp D
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER Y.97

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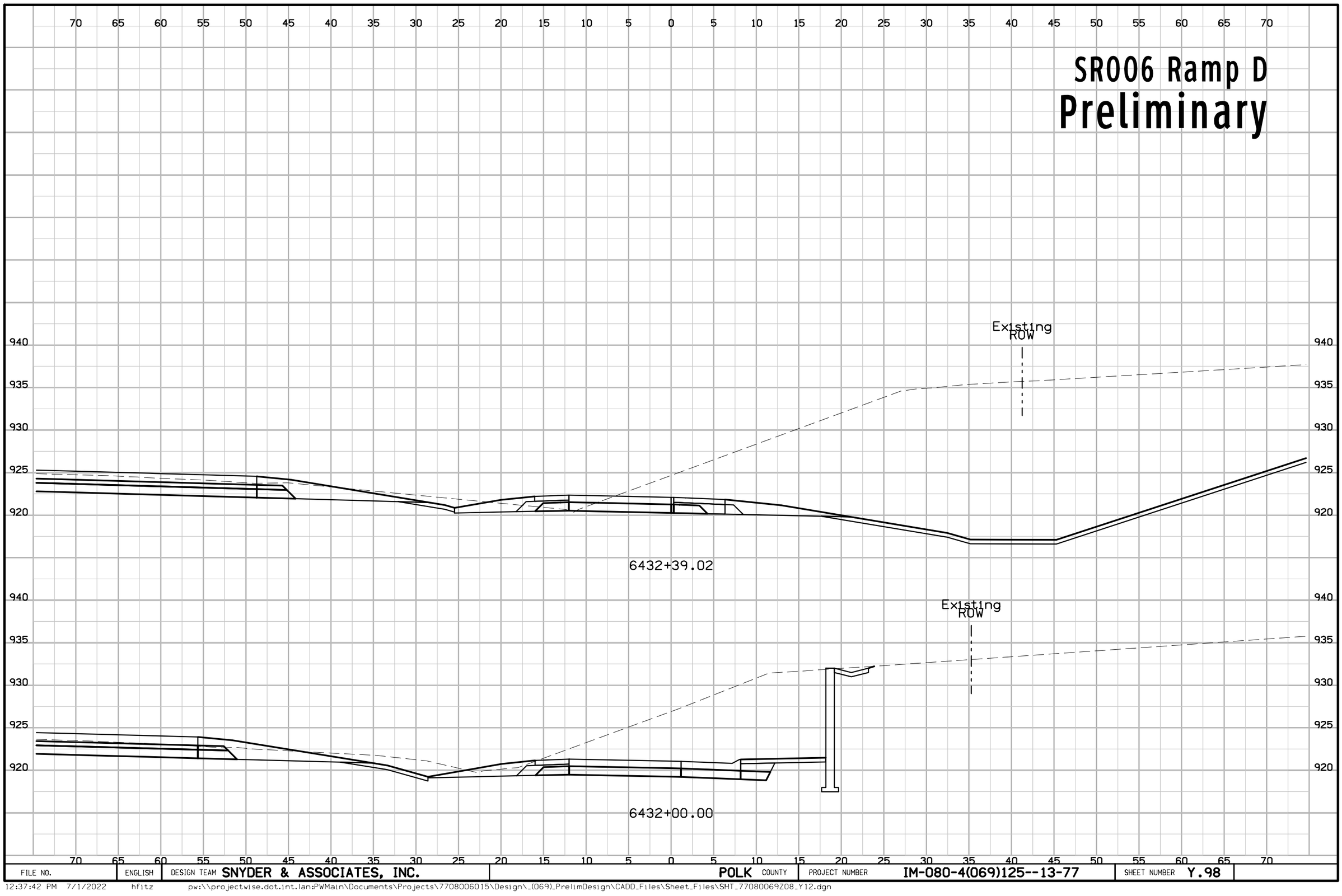
SR006 Ramp D
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER Y.98

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SR006 Ramp D

Preliminary

70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70

945 940 935 930 925 920

Existing ROW

6433+00.00

Existing ROW

6432+50.00

FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER Y.99

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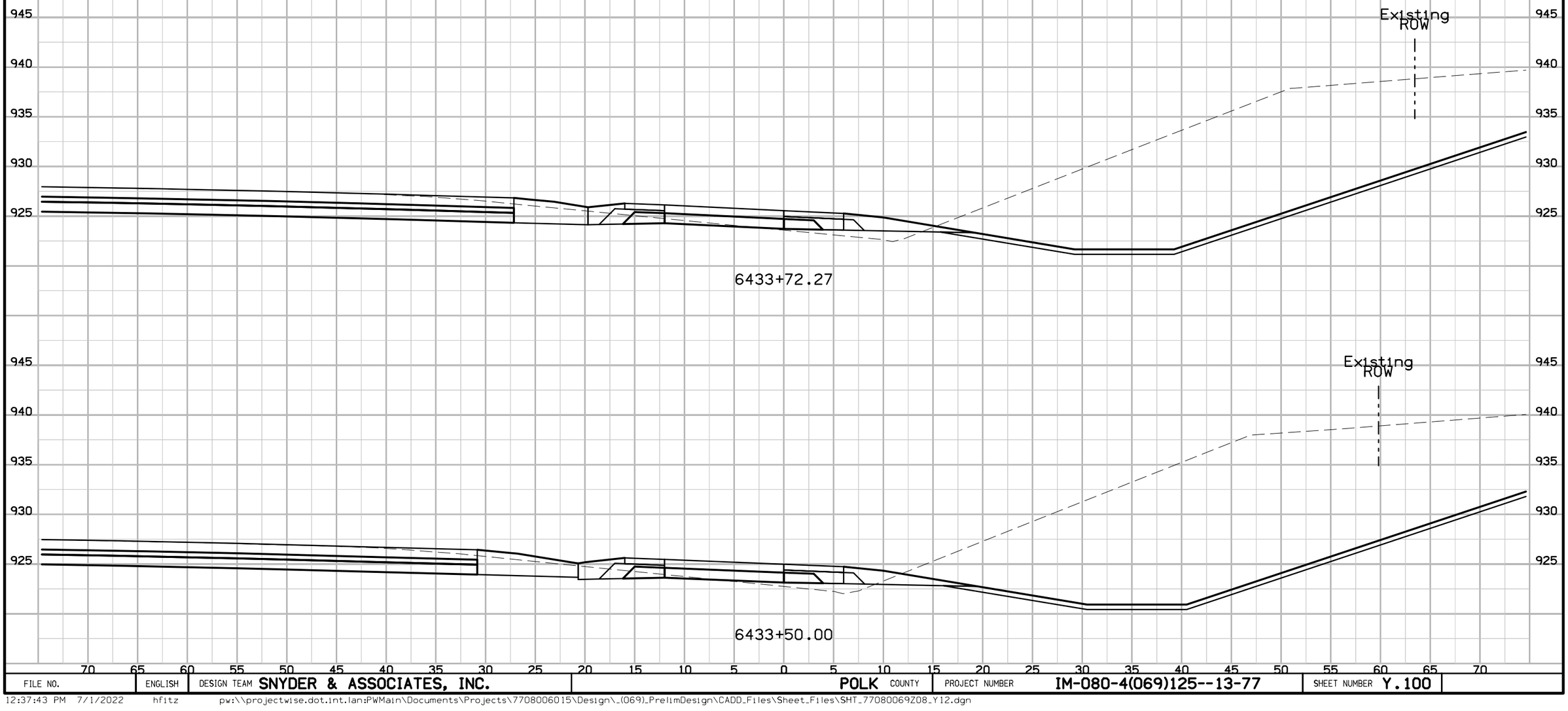
SR006 Ramp D
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER Y.100

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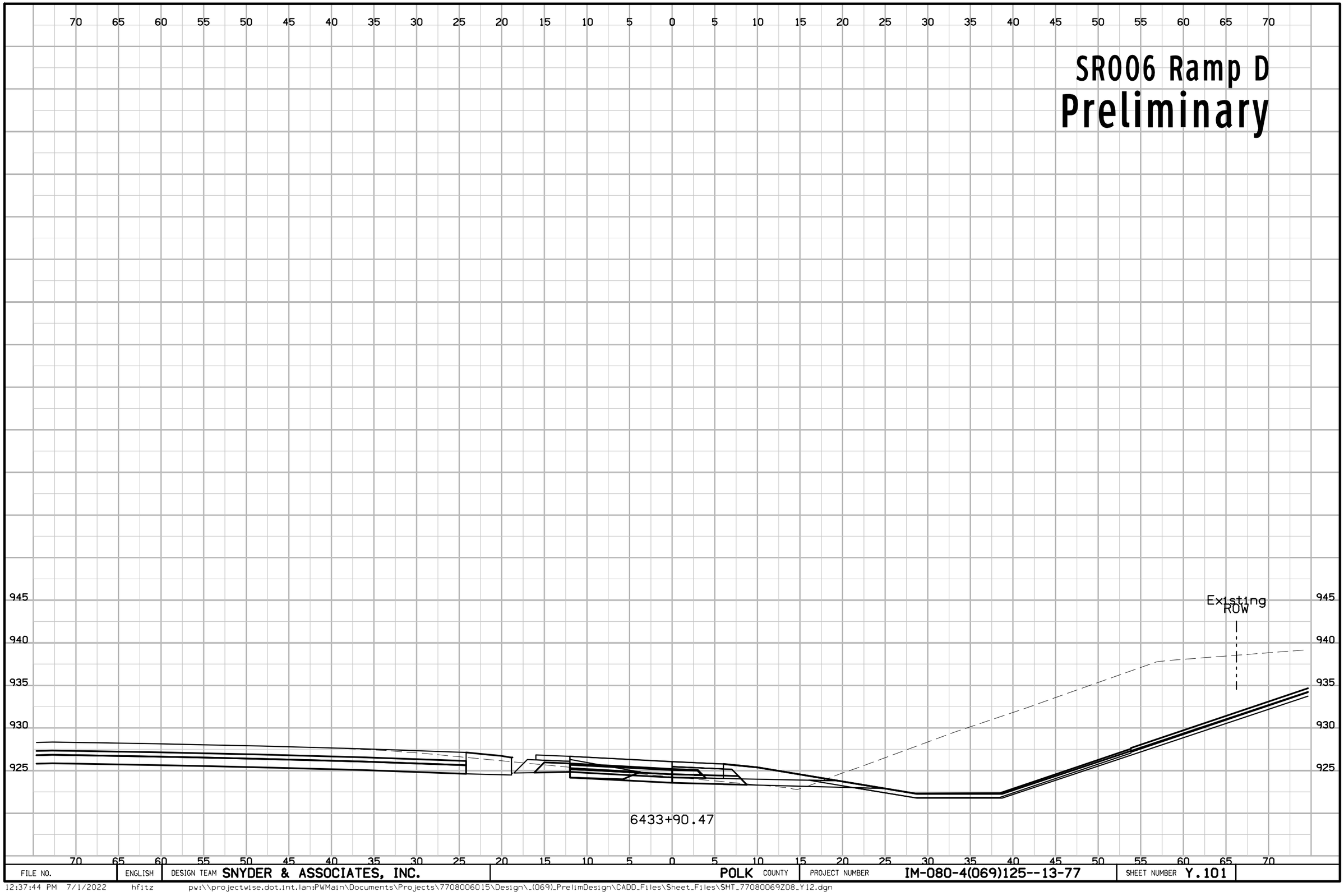
SR006 Ramp D
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER Y.101

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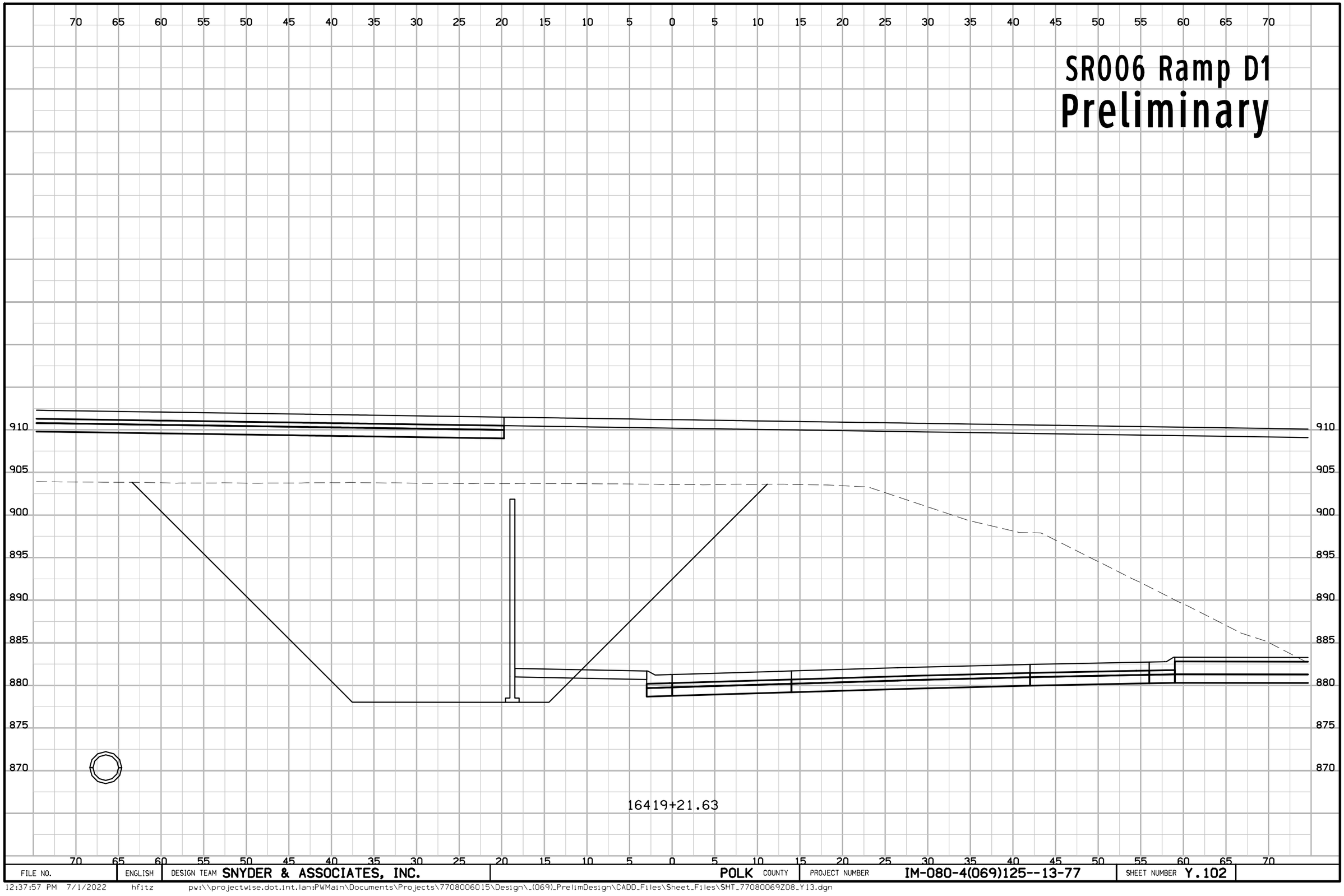
SR006 Ramp D1

Preliminary



FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER Y.102

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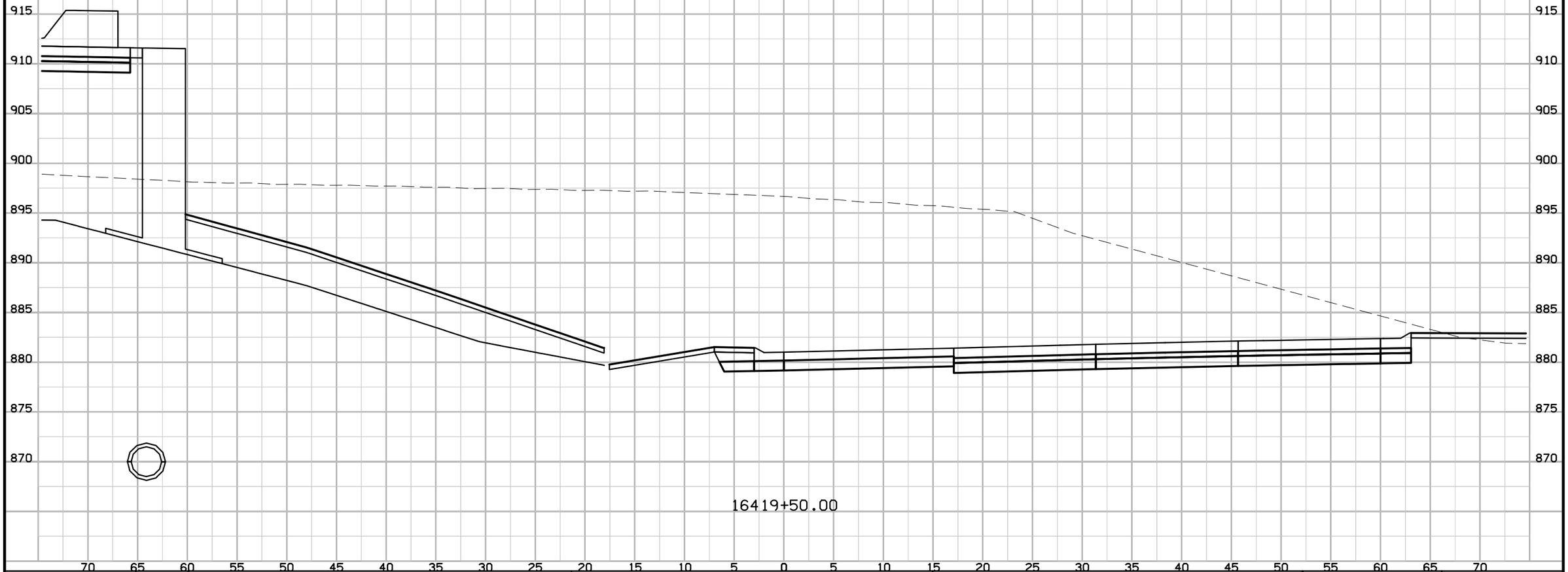
SR006 Ramp D1

Preliminary



FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER Y.103

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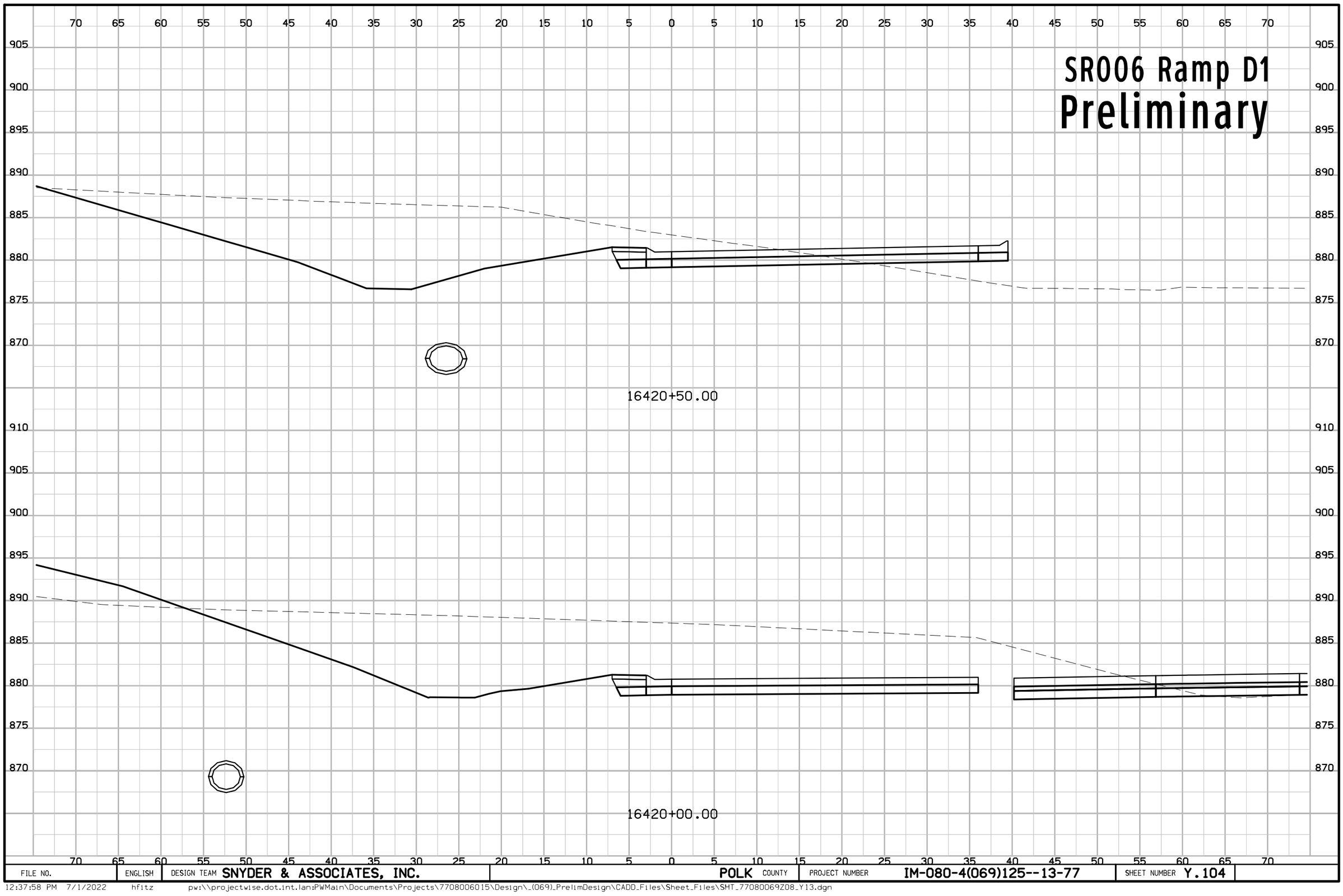
SR006 Ramp D1

Preliminary



FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER Y.104

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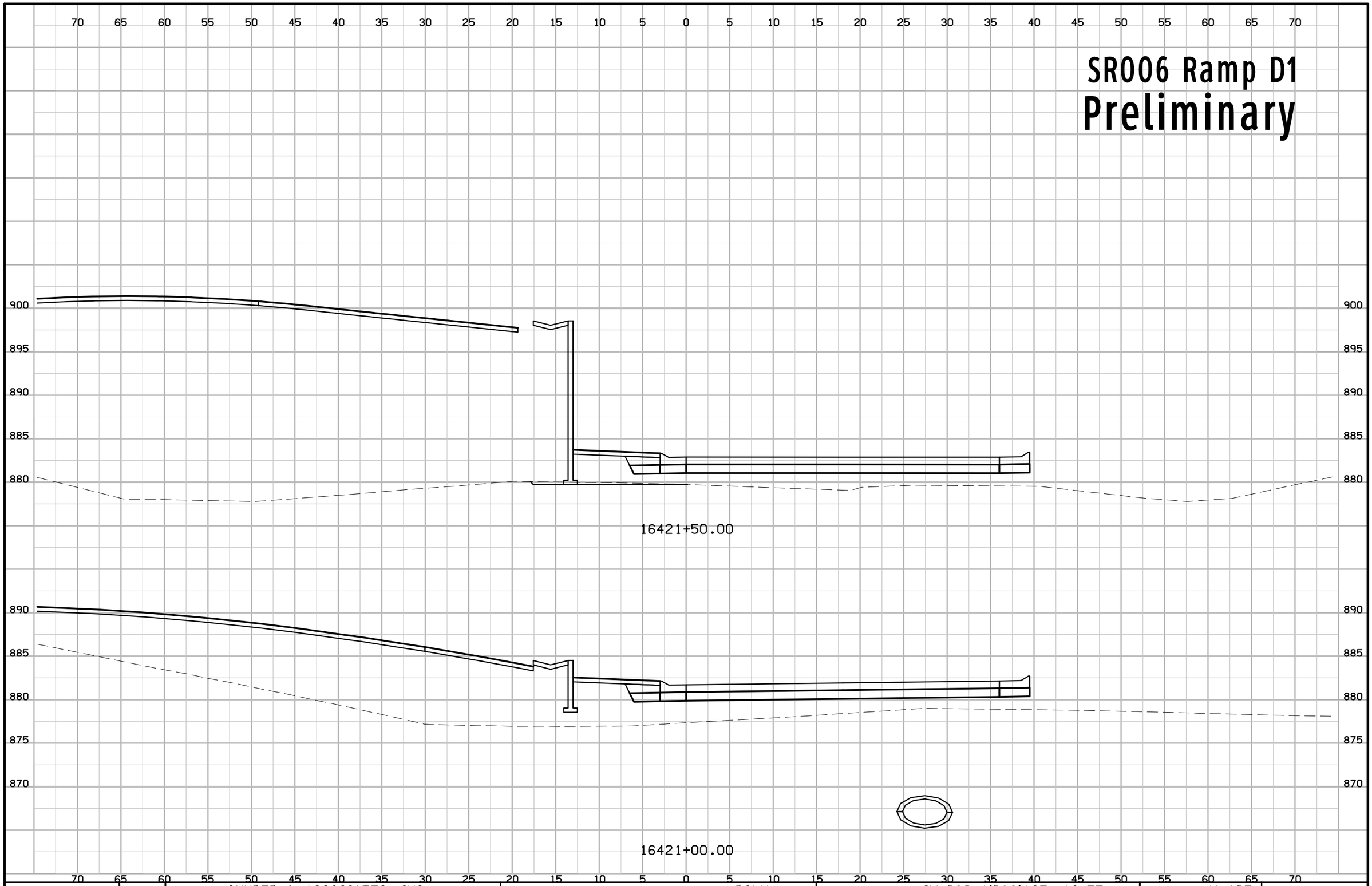
SR006 Ramp D1

Preliminary



FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER Y.105

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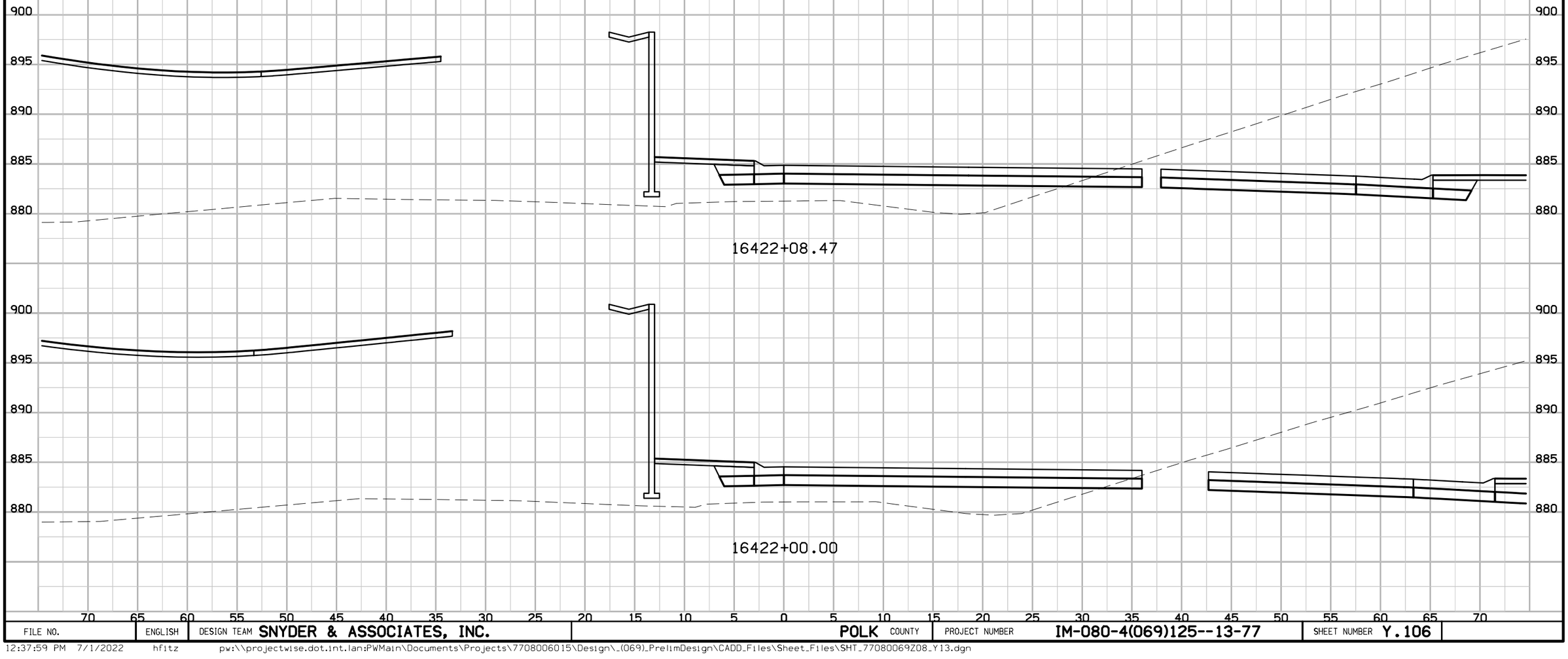
SR006 Ramp D1

Preliminary



FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER Y.106

12:37:59 PM 7/1/2022 hfitz pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\7708006015\Design_(069)_PrelimDesign\CADD_Files\Sheet_Files\SHT_77080069Z08_Y13.dgn

SR006 Ramp D1

Preliminary

70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70

910
905
900
895
890
885

16423+00.00

905
900
895
890
885
880

16422+50.00

FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER Y.107

12:37:59 PM 7/1/2022 hfitz pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\7708006015\Design_(069)_PrelimDesign\CADD_Files\Sheet_Files\SHT_77080069Z08_Y13.dgn

SR006 Ramp D1

Preliminary

70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70

910
905
900
895
890
885

16423+61.82

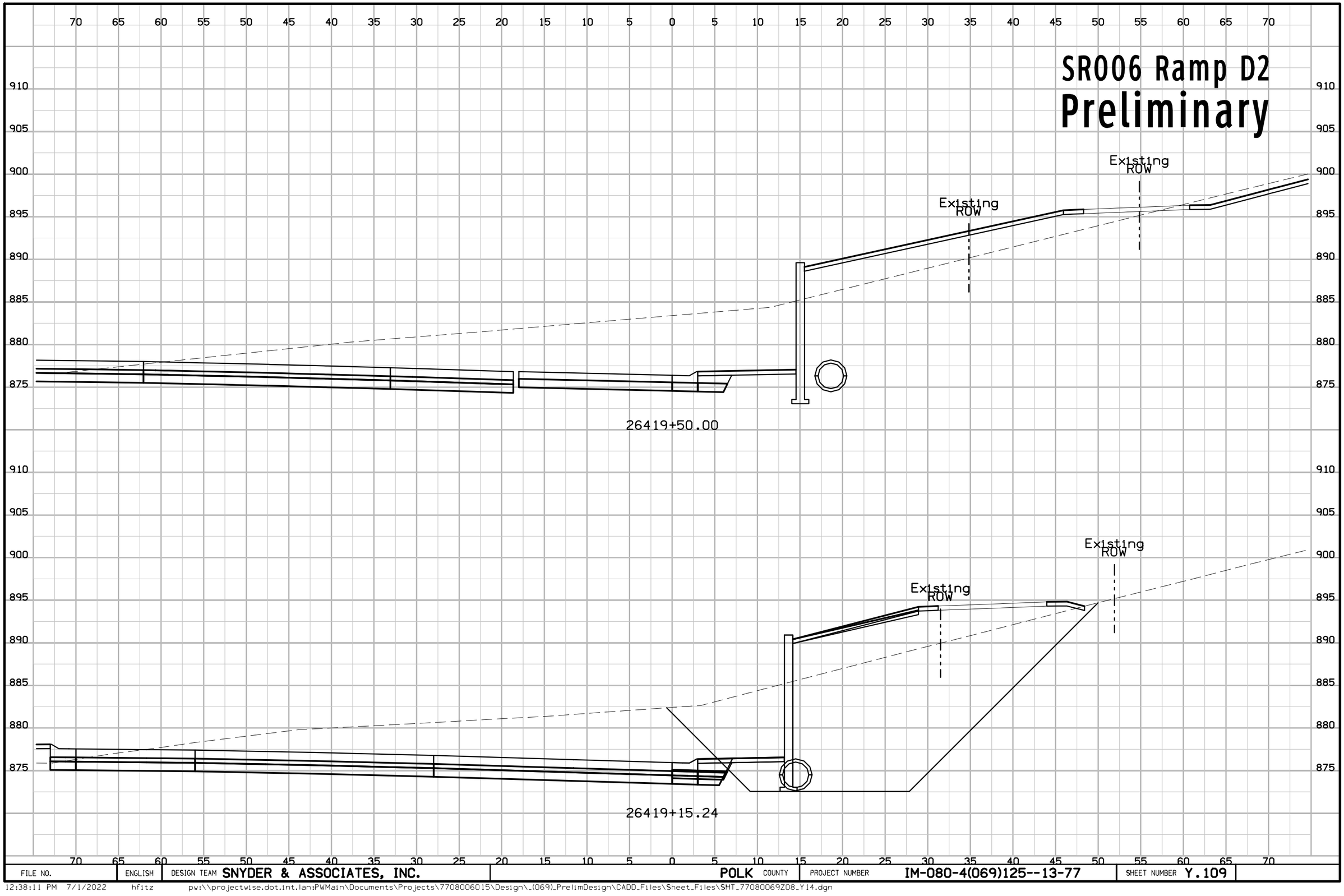
16423+50.00

FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER Y.108

12:38:00 PM 7/1/2022 hfitz pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\7708006015\Design_(069)_PrelimDesign\CADD_Files\Sheet_Files\SHT_77080069Z08_Y13.dgn

SR006 Ramp D2

Preliminary



FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER Y.109

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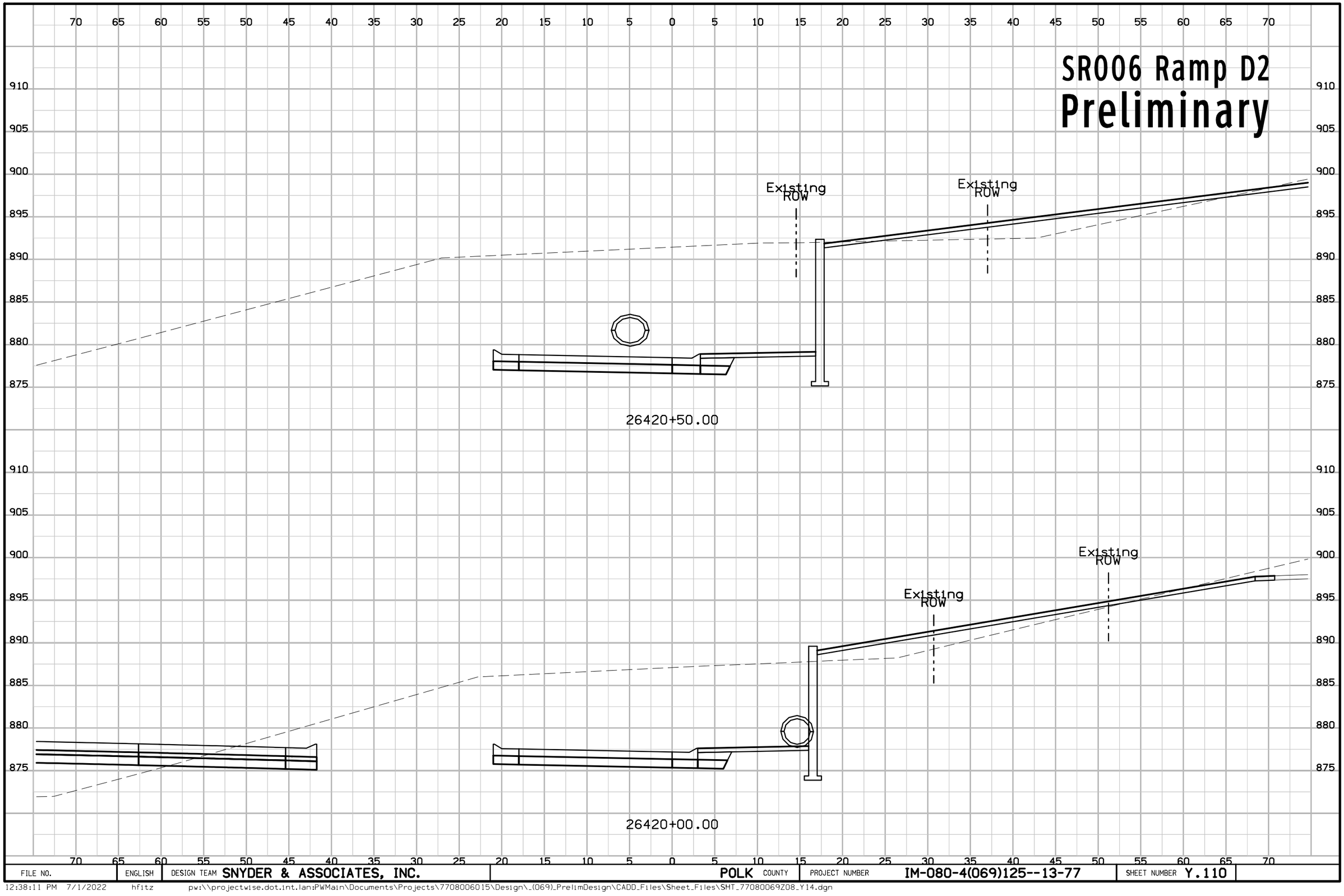
SR006 Ramp D2

Preliminary



FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER Y.110

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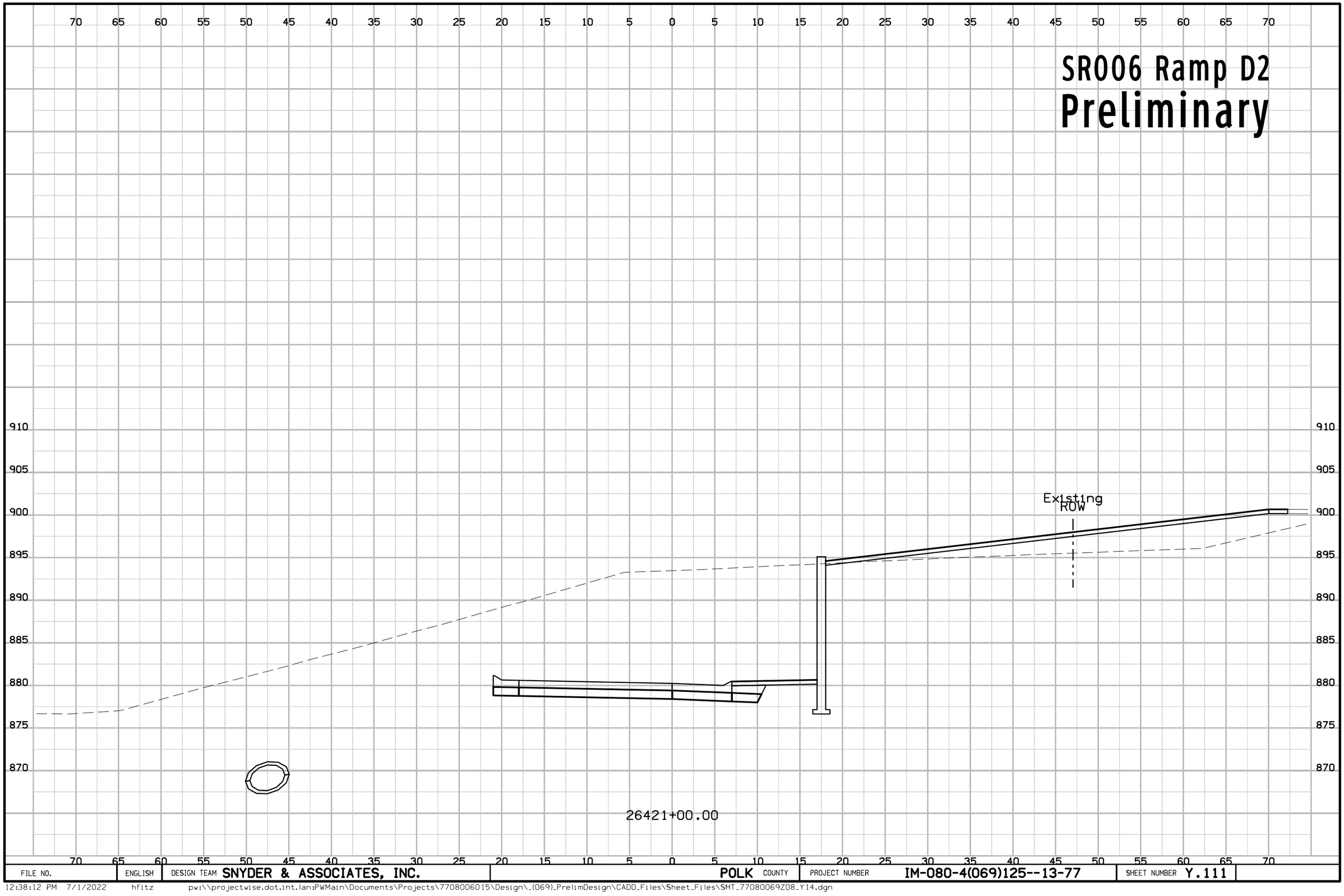
SR006 Ramp D2
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER Y.111

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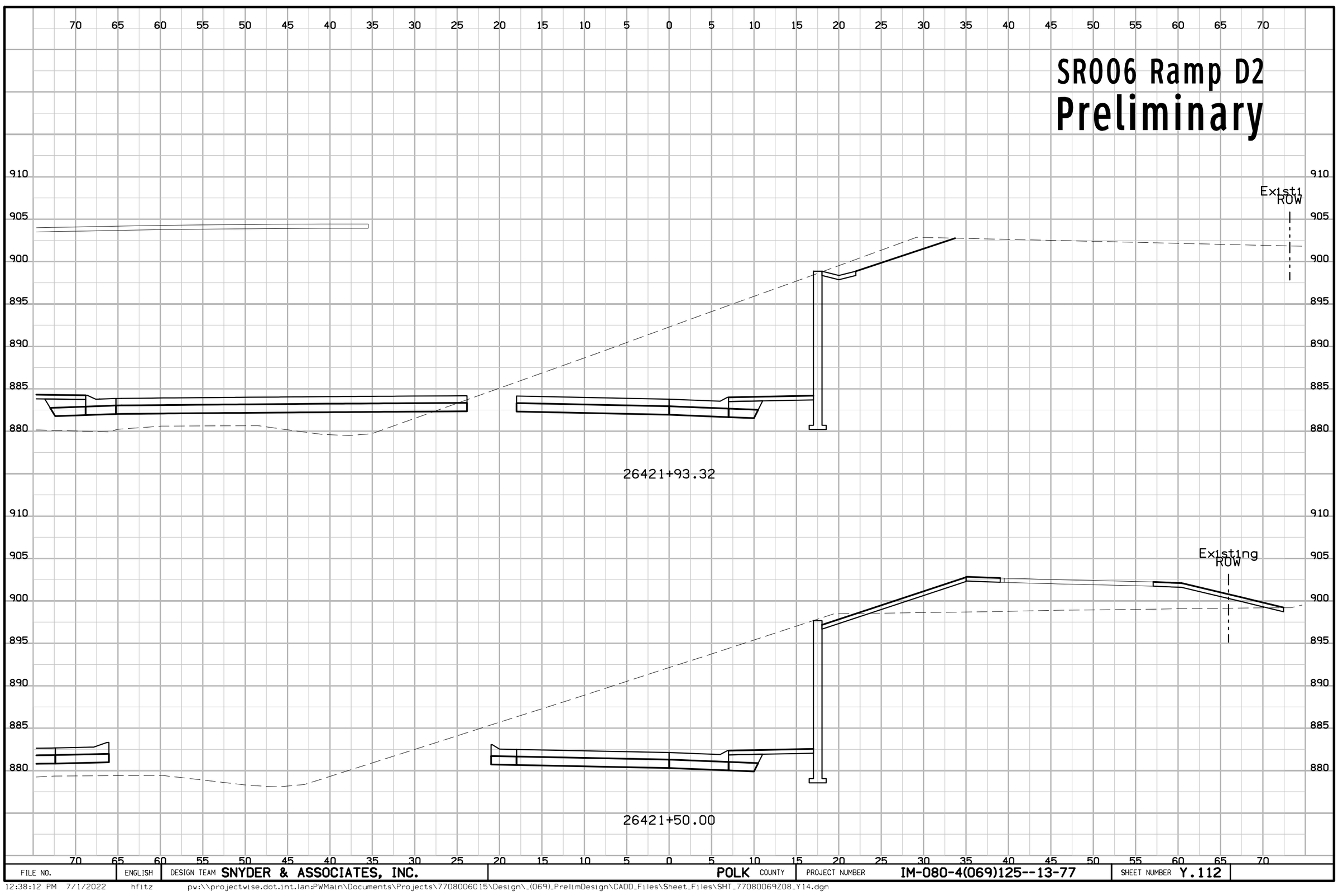
SR006 Ramp D2

Preliminary



FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER Y.112

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SR006 Ramp D2

Preliminary

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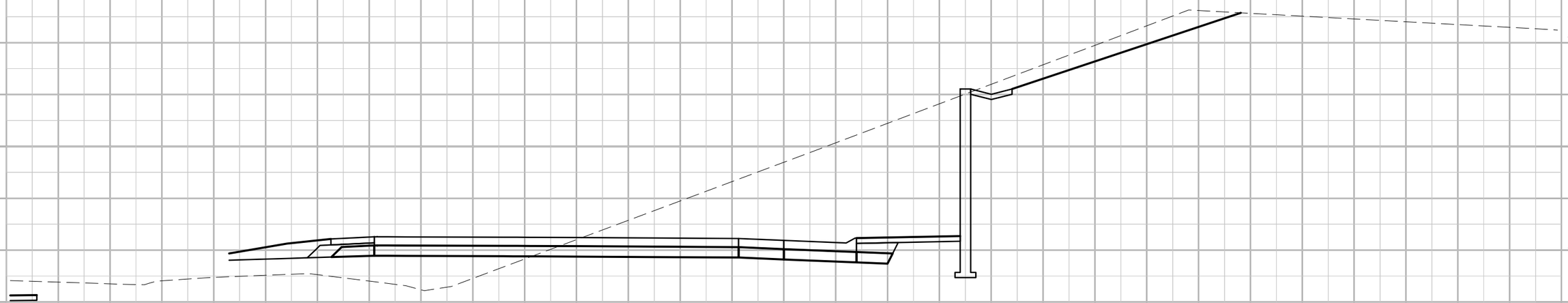
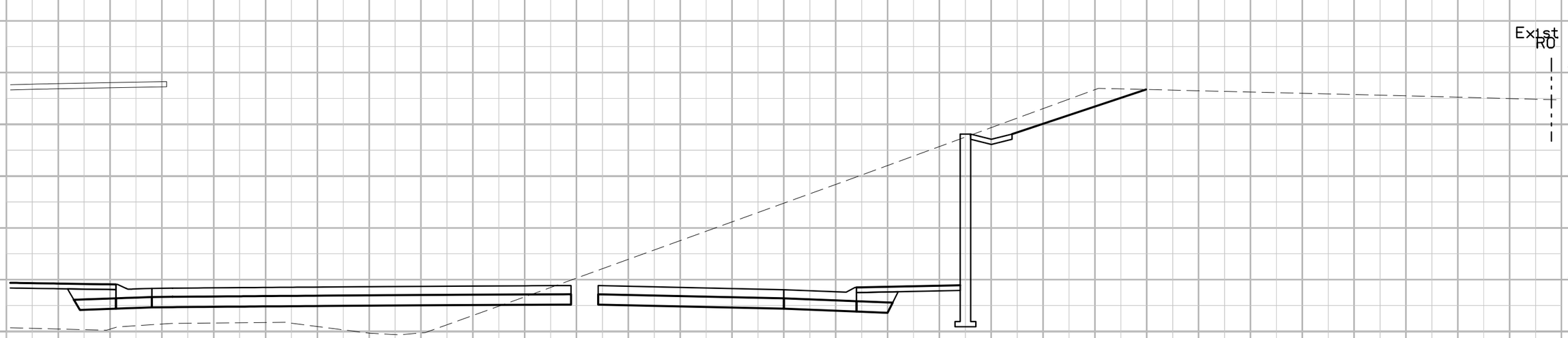
910 905 900 895 890 885 880



26422+50.00



26422+00.00

70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70

FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER Y.113

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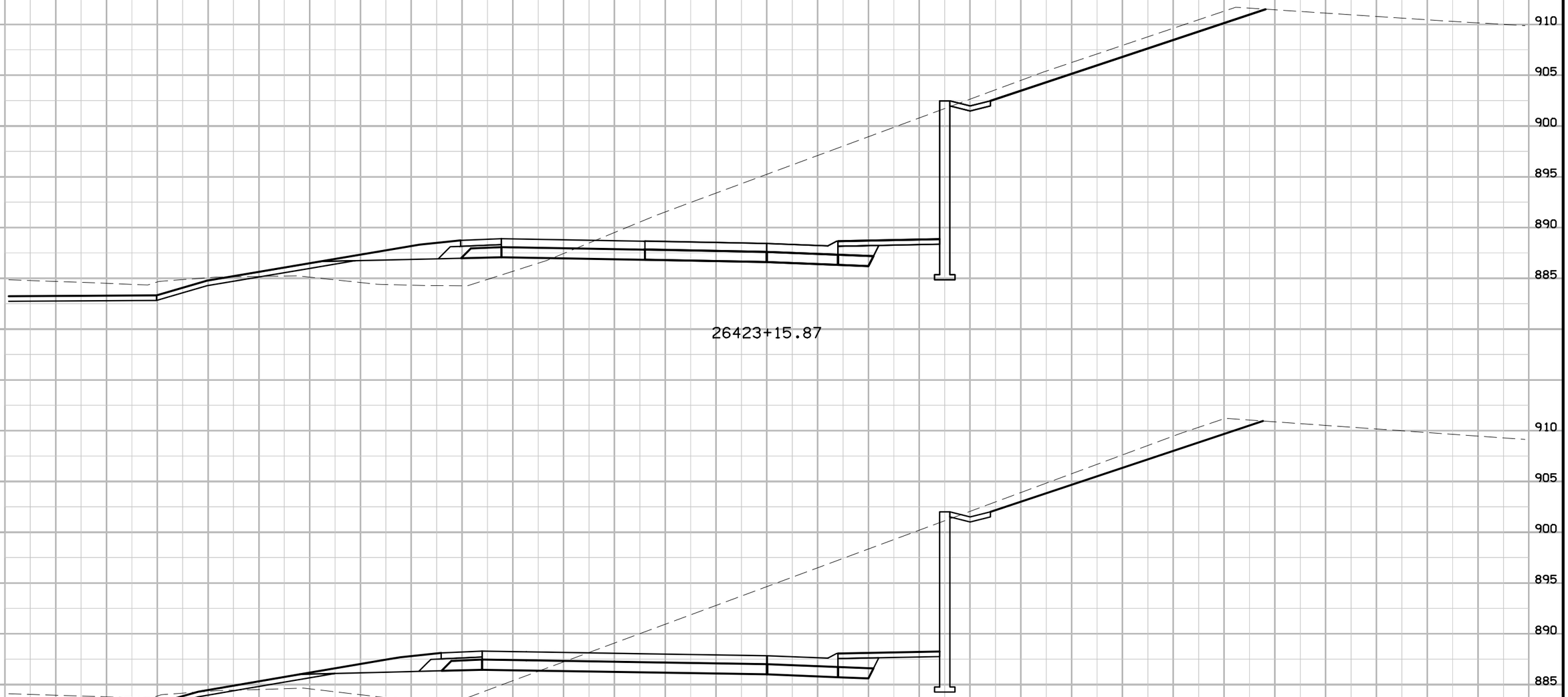
SR006 Ramp D2

Preliminary

70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70

910
905
900
895
890
885

26423+15.87



26423+00.00

70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70

FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER Y.114

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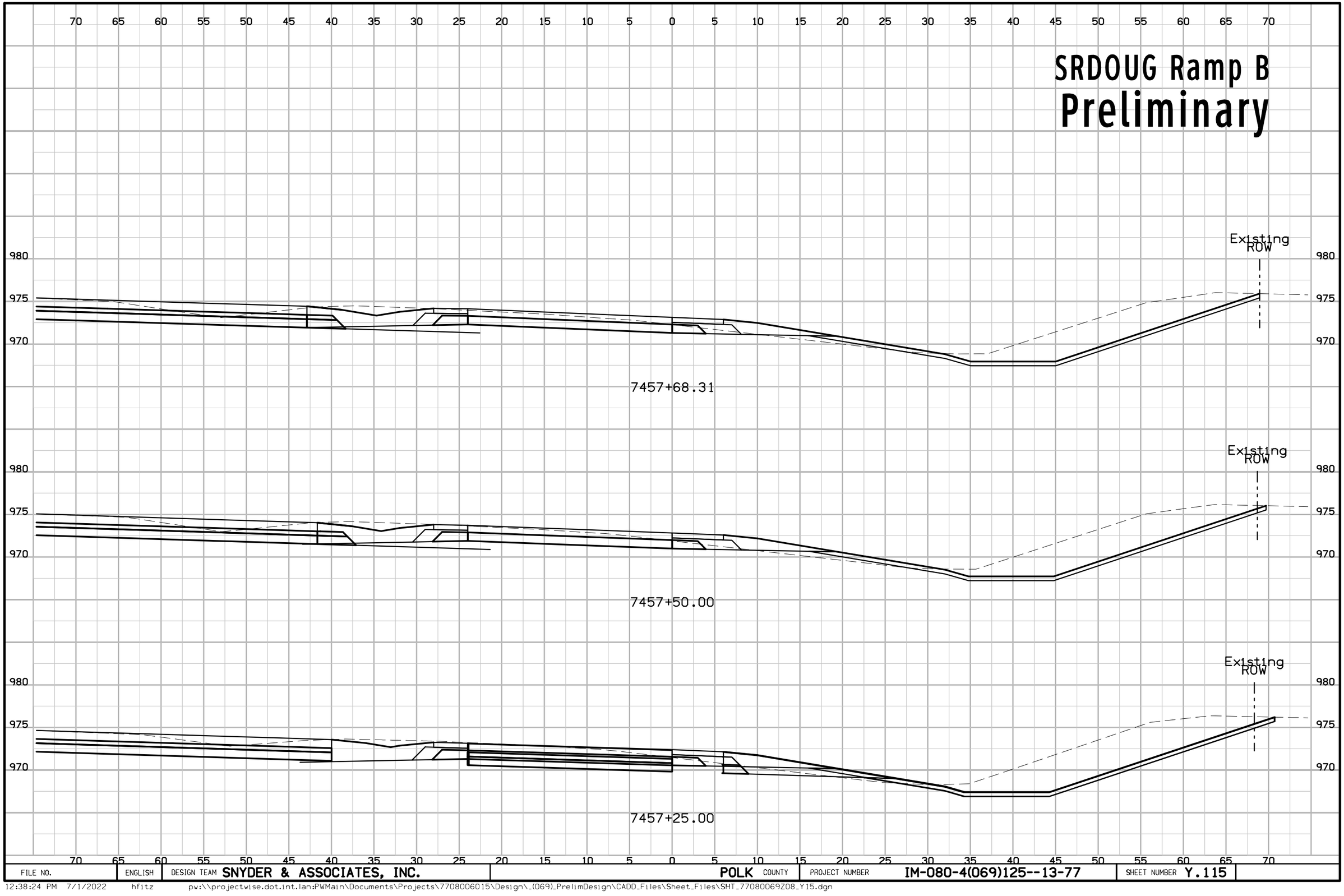
SRDOUG Ramp B
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER Y.115

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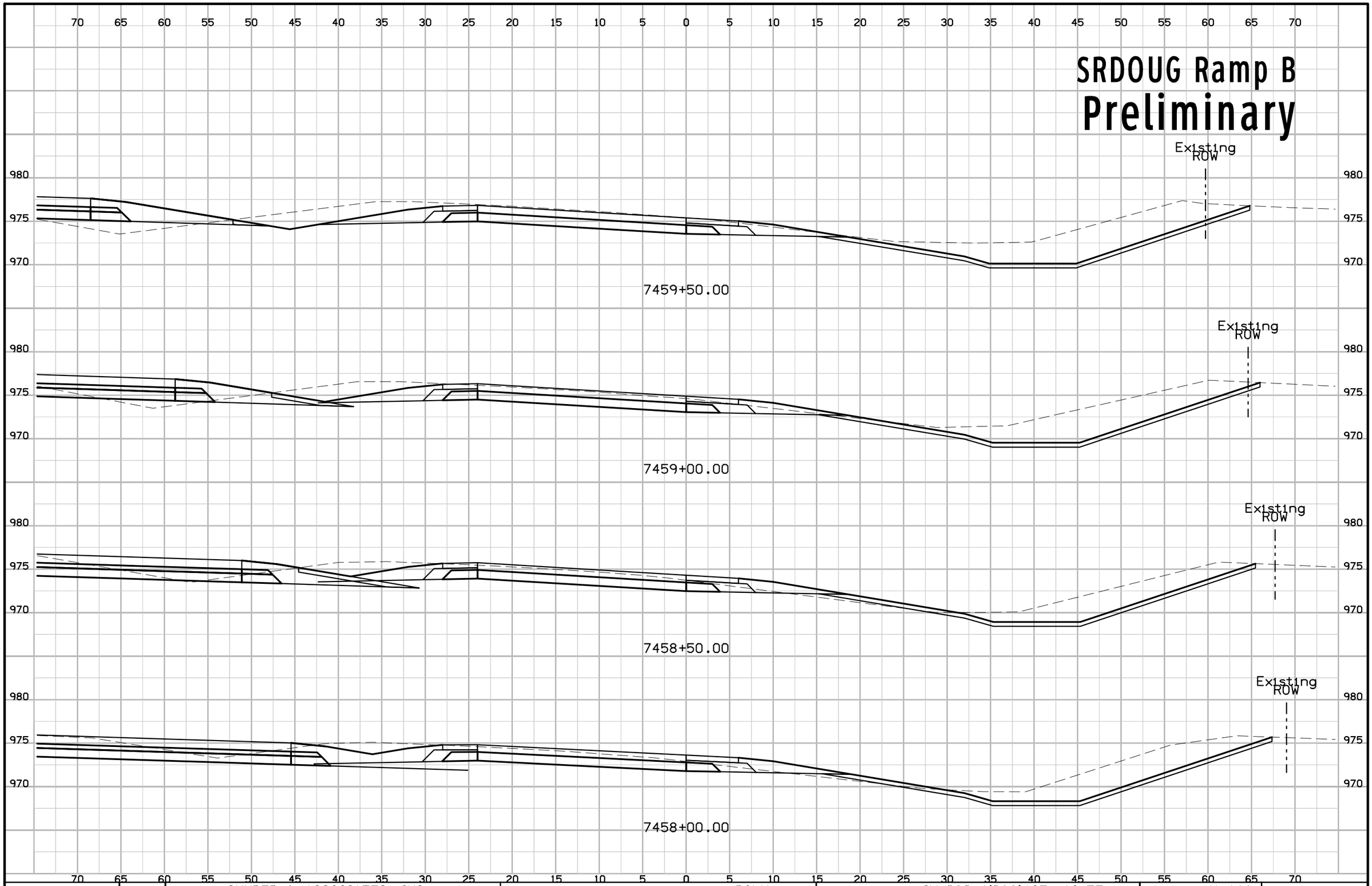
SRDOUG Ramp B

Preliminary



FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER Y.116

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SRDOUG Ramp B
Preliminary

70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70

975
970

7462+00.00

980
975
970

7461+50.00

980
975

7461+00.00

980
975

7460+50.00

980
975

Existing
ROW

7460+00.00

70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70

FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER Y.117

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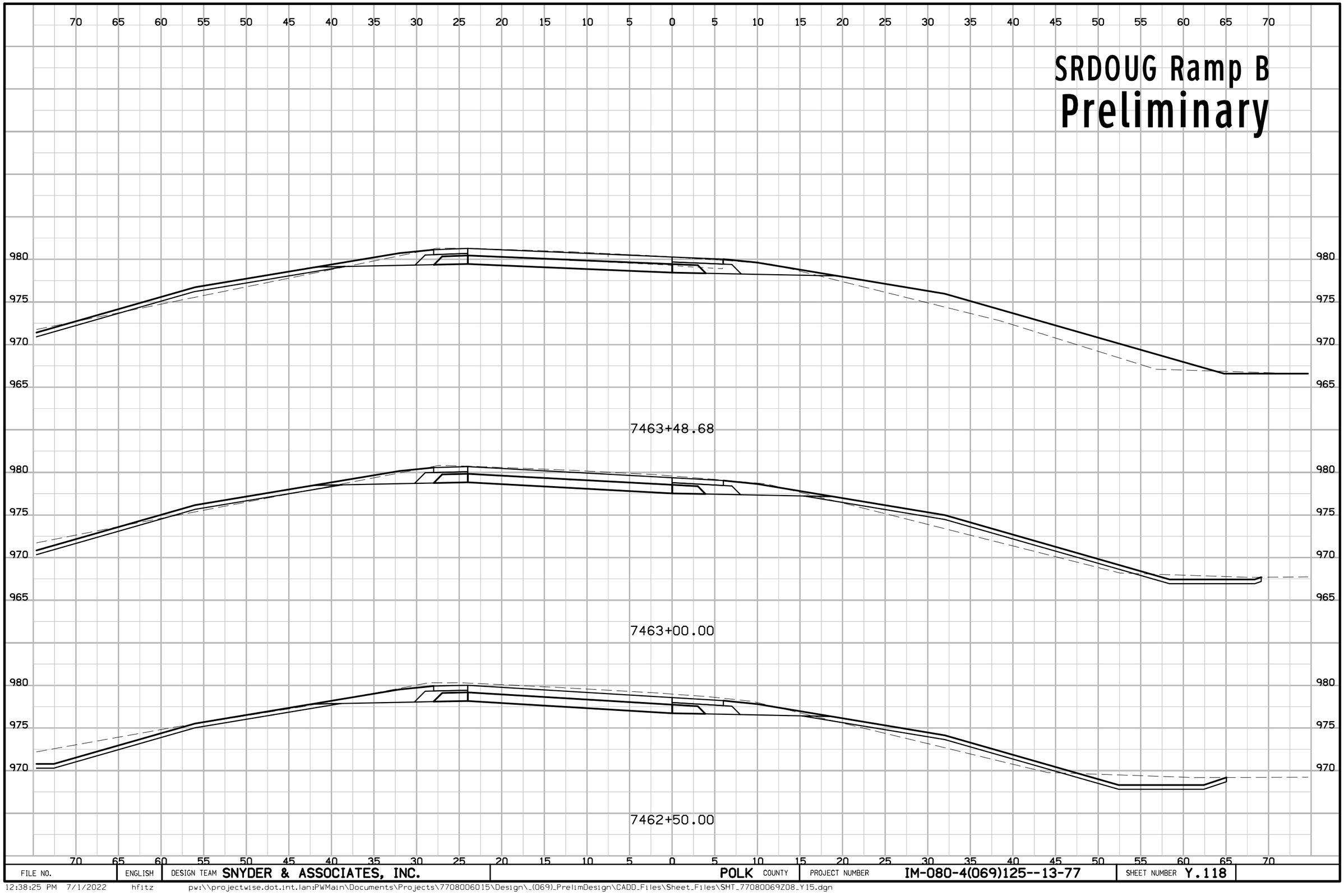
SRDOUG Ramp B
Preliminary



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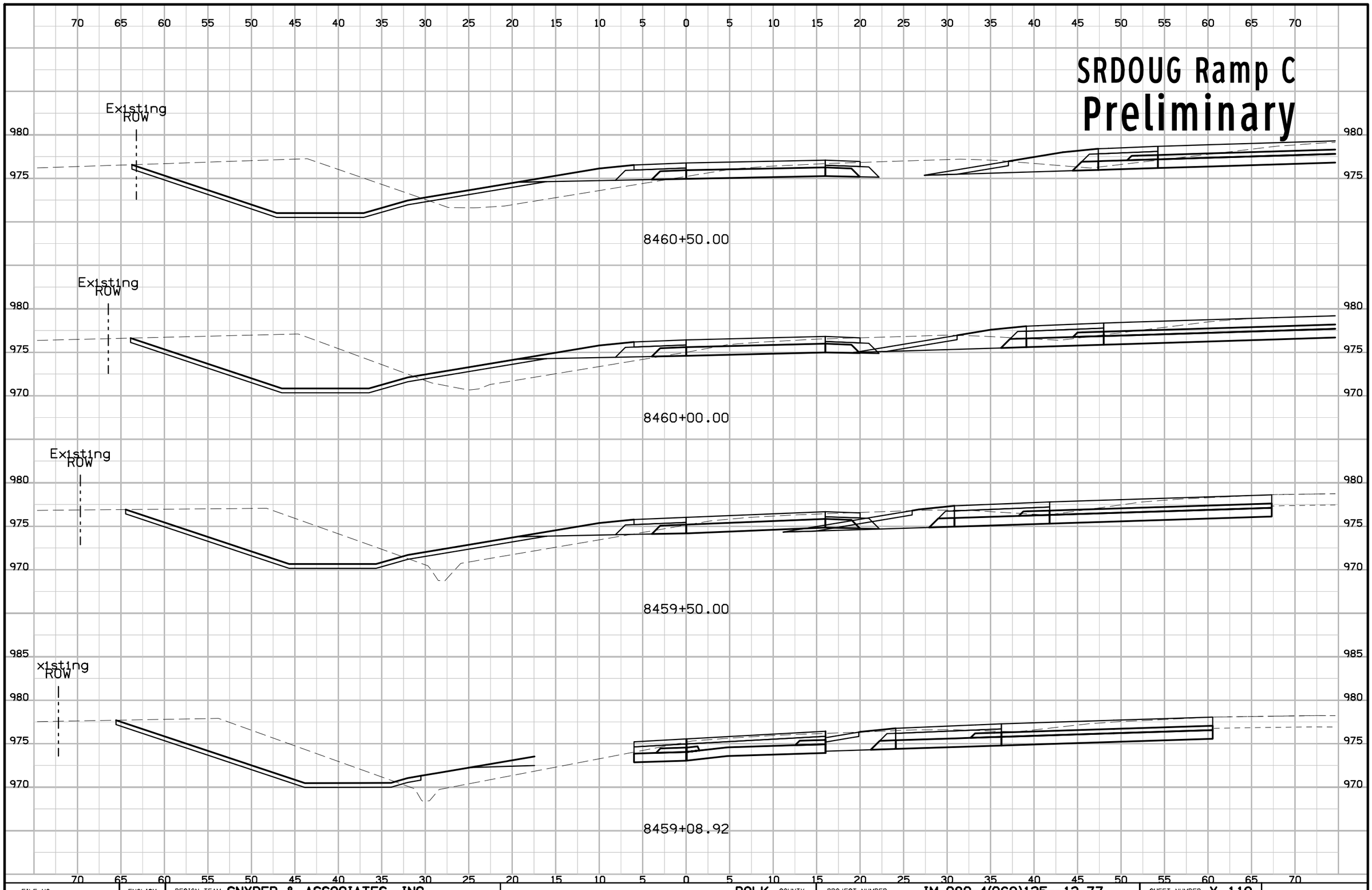
SRDOUG Ramp C

Preliminary



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SRDOUG Ramp C
Preliminary

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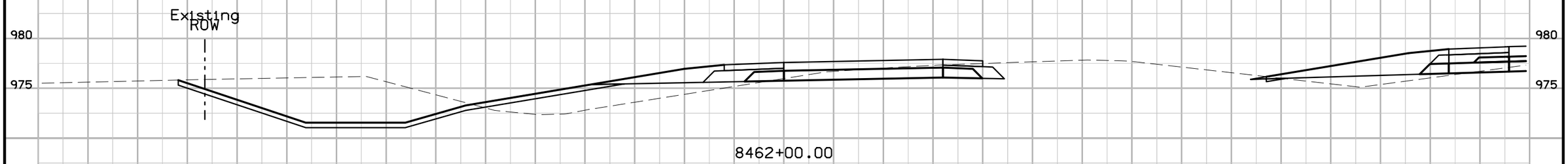
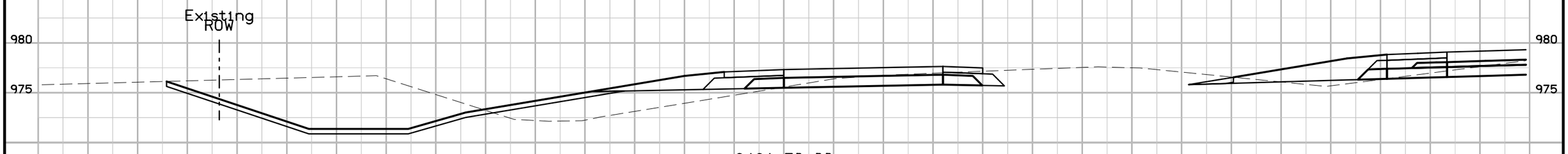


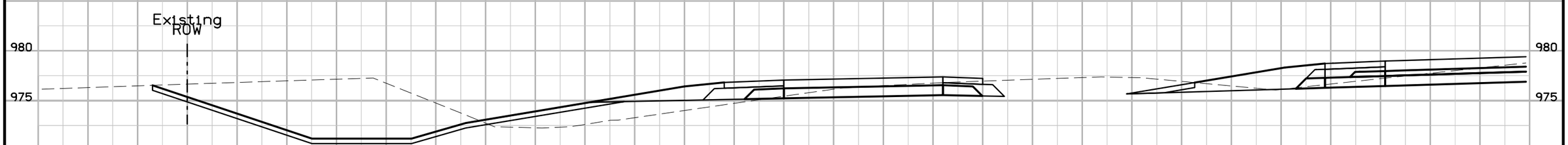
8462+00.00



8461+50.00



8461+03.83



8461+00.00

70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70

FILE NO.	ENGLISH	DESIGN TEAM **SNYDER & ASSOCIATES, INC.**	**POLK** COUNTY	PROJECT NUMBER **IM-080-4(069)125--13-77**	SHEET NUMBER **Y.120**

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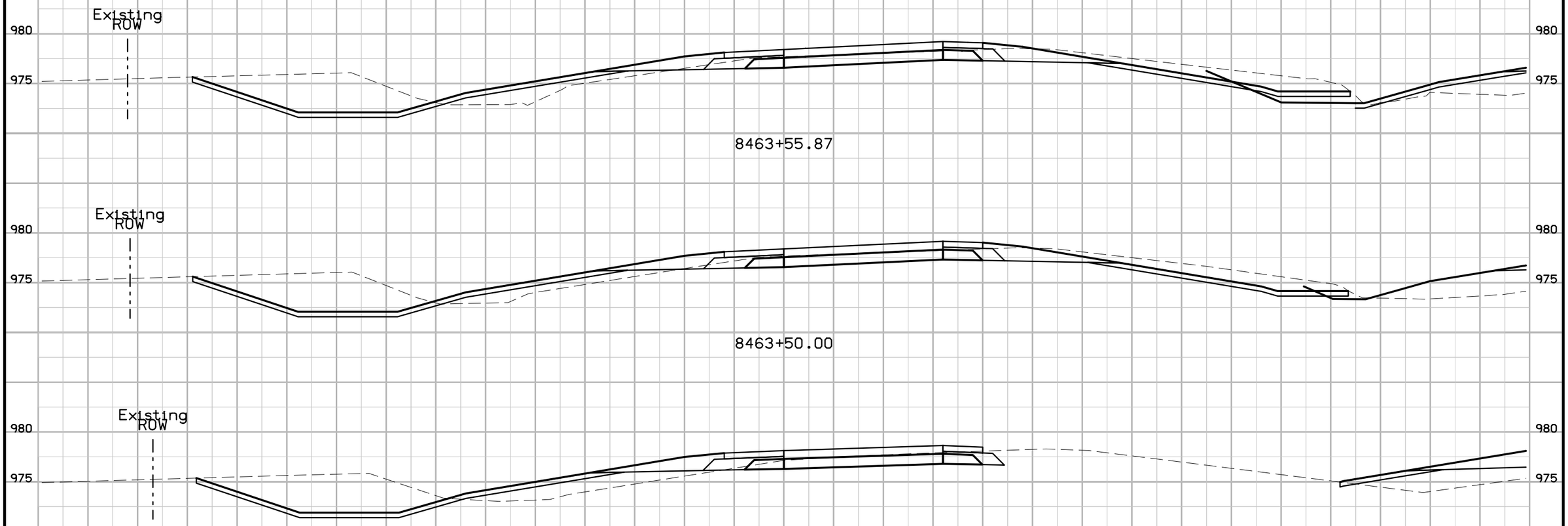
SRDOUG Ramp C
Preliminary

70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70



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FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER Y.121

SRDOUG Ramp C

Preliminary

70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70

980
975

8466+00.00

Existing ROW

8465+50.00

Existing ROW

8465+00.00

Existing ROW

8464+50.00

Existing ROW

8464+00.00

FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER Y.122

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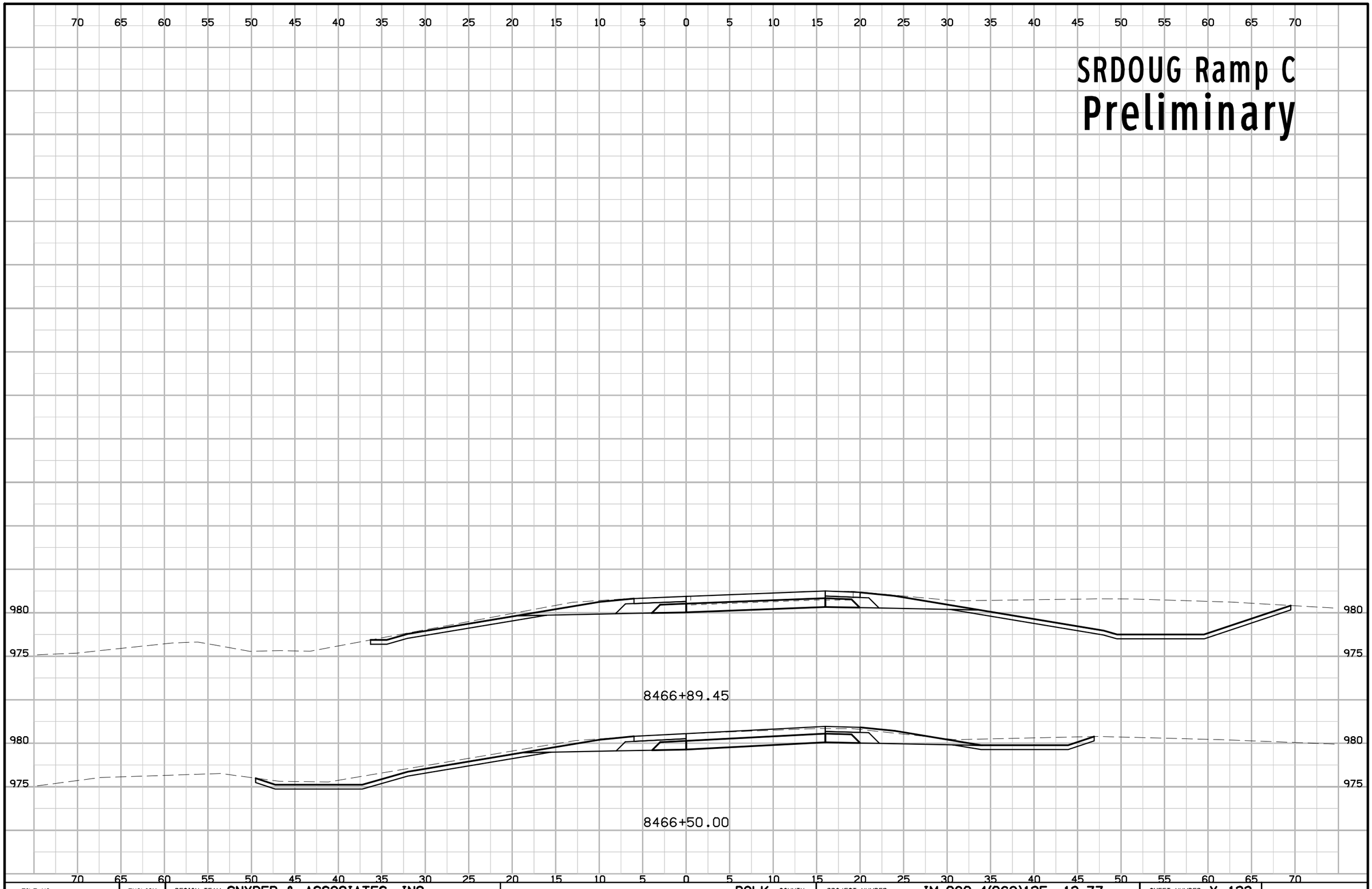
SRDOUG Ramp C

Preliminary



FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER Y.123

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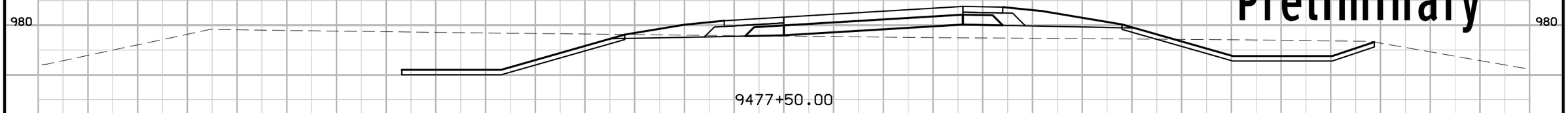
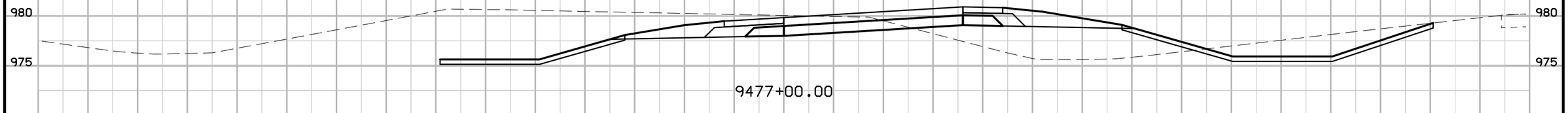
70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70

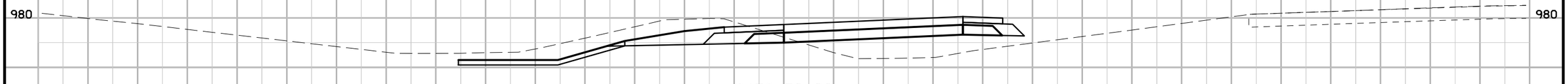
SRDOUG Ramp E
Preliminary



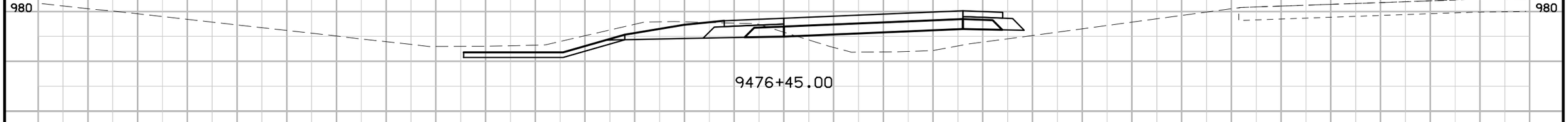
9477+50.00



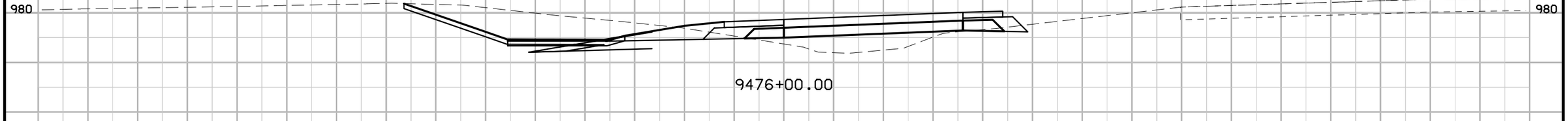
9477+00.00



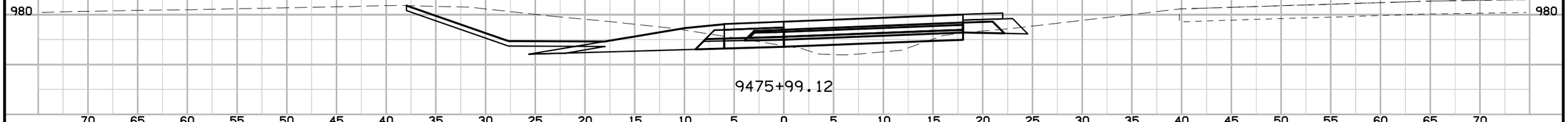
9476+50.00



9476+45.00



9476+00.00



9475+99.12

70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70

FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER Y.124

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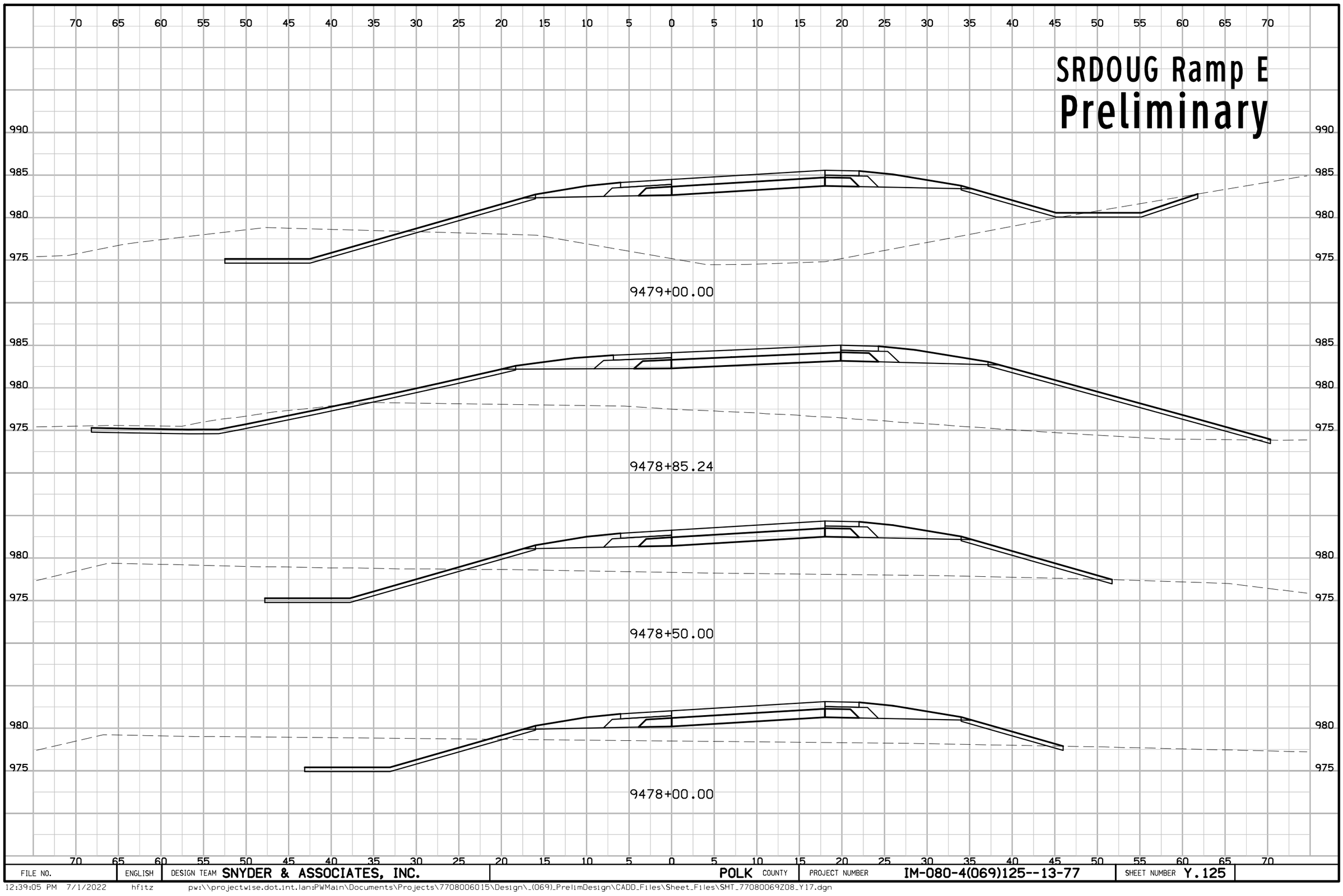
SRDOUG Ramp E

Preliminary



FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER Y.125

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SRDOUG Ramp E

Preliminary

70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70

995
990
985
980

Exist RO

9480+50.00

990
985
980
975

Exist RO

9480+00.00

990
985
980
975

9479+50.00

70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70

FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER Y.126

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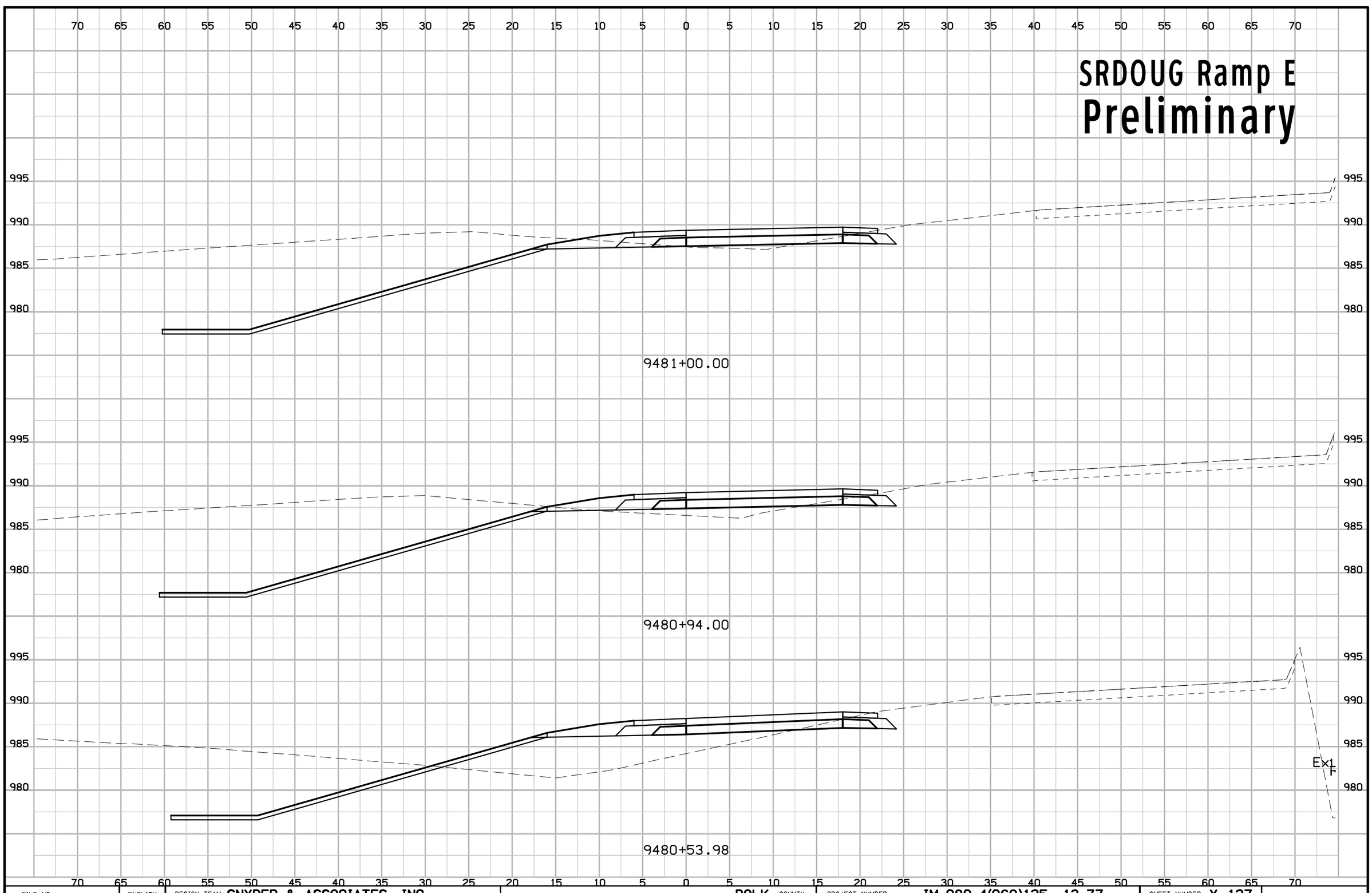
SRDOUG Ramp E
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER Y.127

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SRDOUG Ramp E

Preliminary

70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70

995
990
985
980

9482+22.07

9482+00.00

9481+50.00

FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER Y.128

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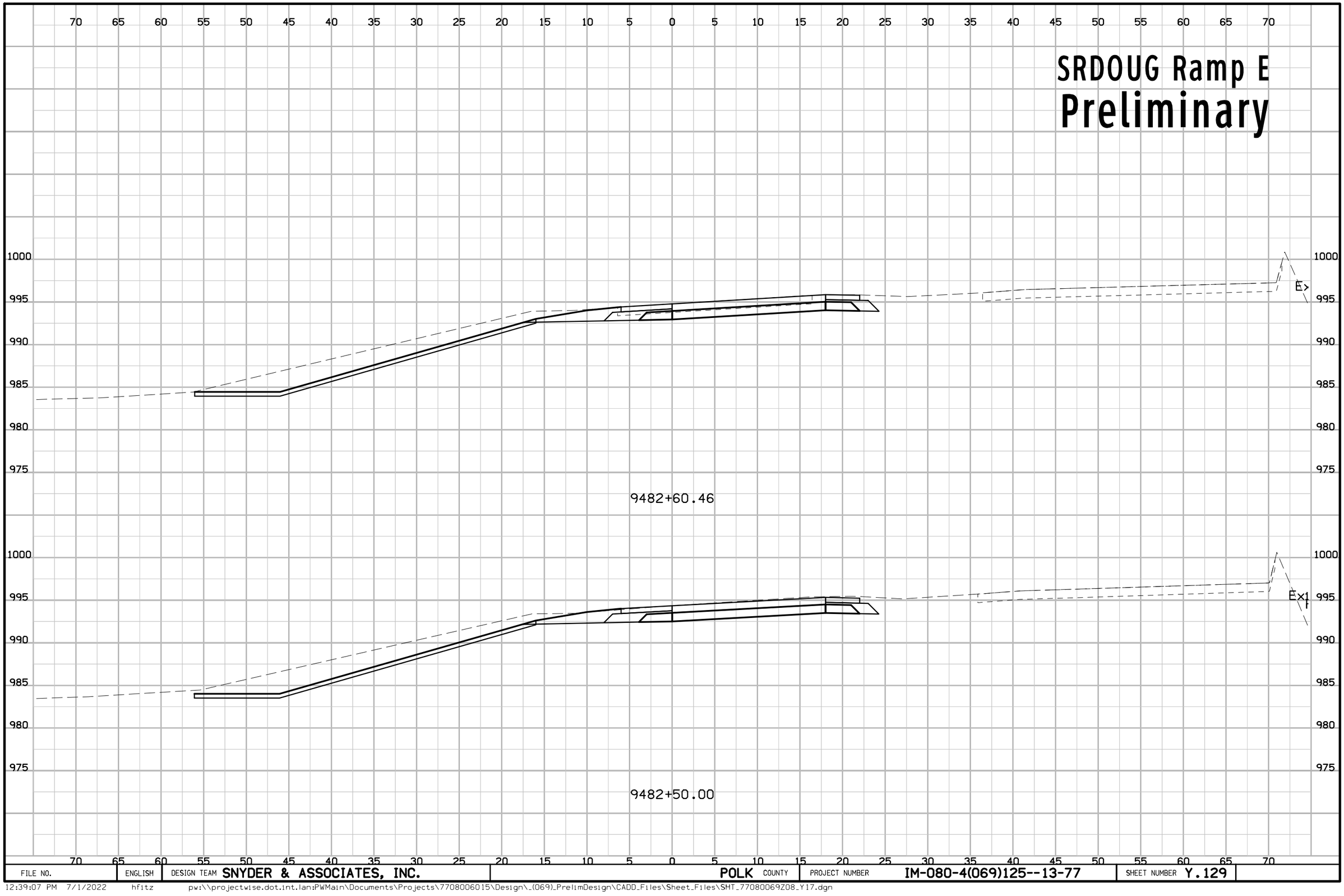
SRDOUG Ramp E

Preliminary



FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER Y.129

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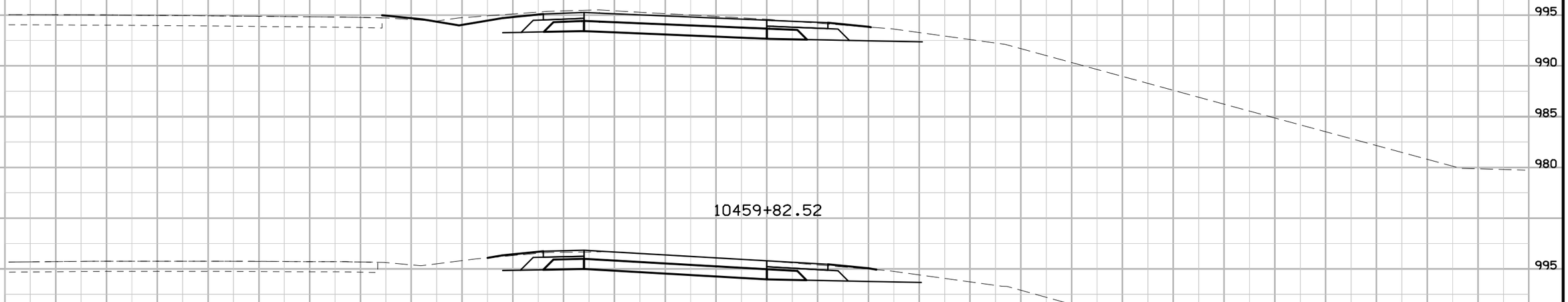
SRDOUG Ramp F

Preliminary

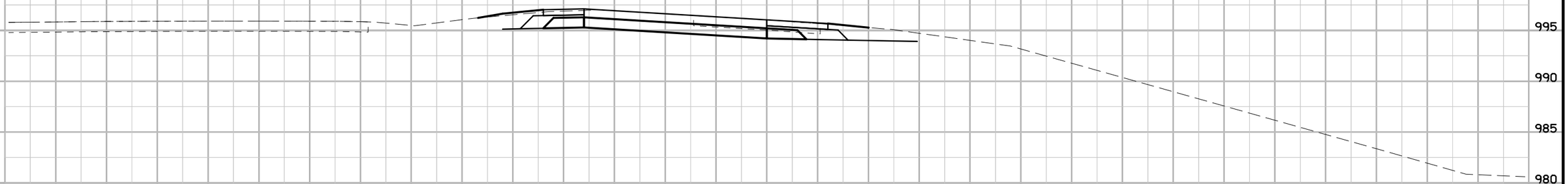
70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70

995
990
985
980

10459+82.52



10459+50.00



10459+44.12

FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER Y.131

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SRDOUG Ramp F

Preliminary

70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70

990
985

10461+50.00

990
985
980

10461+00.00

990
985
980

10460+50.00

990
985
980

10460+00.00

70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70

FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER Y.132

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SRDOUG Ramp F

Preliminary

70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70

985
980
975
970

10462+50.00

985
980
975
970

10462+45.39

990
985
980
975

10462+00.00

70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70

FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER Y.133

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SRDOUG Ramp F

Preliminary

70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70

985 980 975 970

10463+50.00

985 980 975 970

10463+00.00

985 980 975 970

10462+85.49

70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70

FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER Y.134

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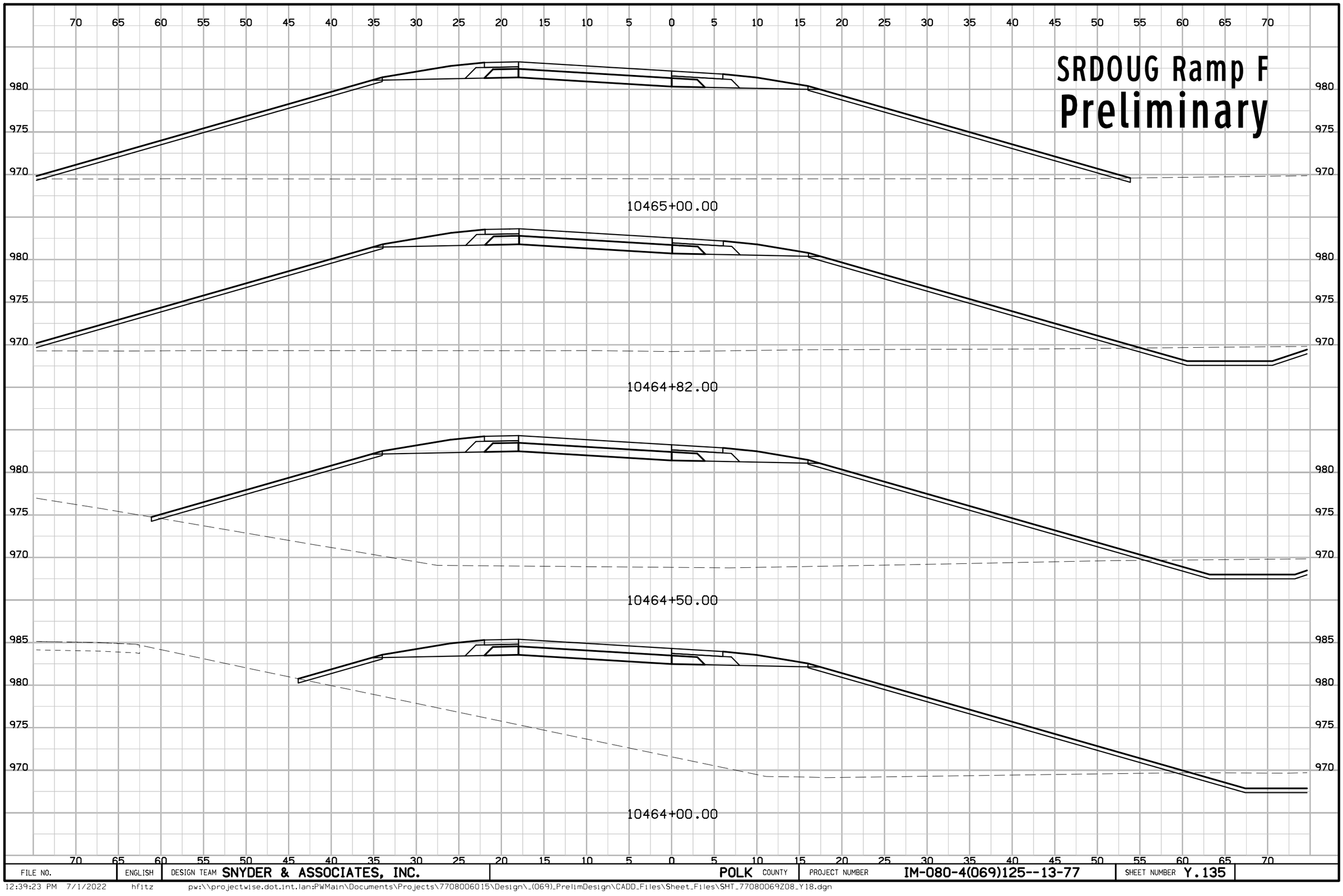
SRDOUG Ramp F

Preliminary



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SRDOUG Ramp F

Preliminary

70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70

980
975

10467+00.00

980
975

10466+50.00

980
975

10466+00.00

980
975
970

10465+50.00

70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70

FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER Y.136

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SRDOUG Ramp F

Preliminary

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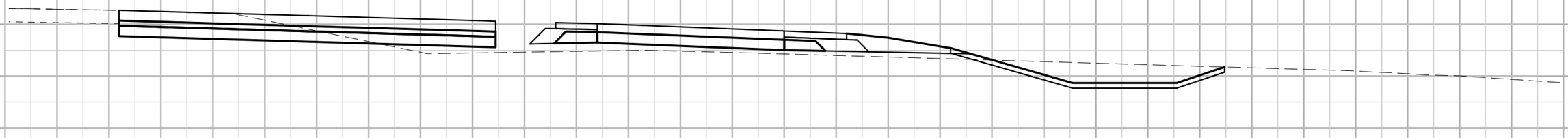
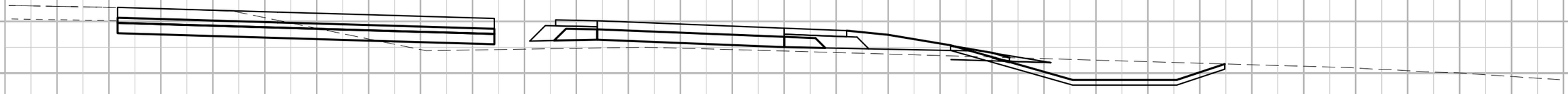
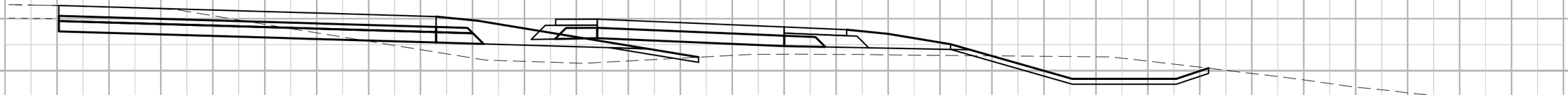
980
975
970



10467+51.16



10467+50.00



10467+05.00

70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70

FILE NO.	ENGLISH	DESIGN TEAM SNYDER & ASSOCIATES, INC.	POLK COUNTY	PROJECT NUMBER IM-080-4(069)125--13-77	SHEET NUMBER Y.137

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