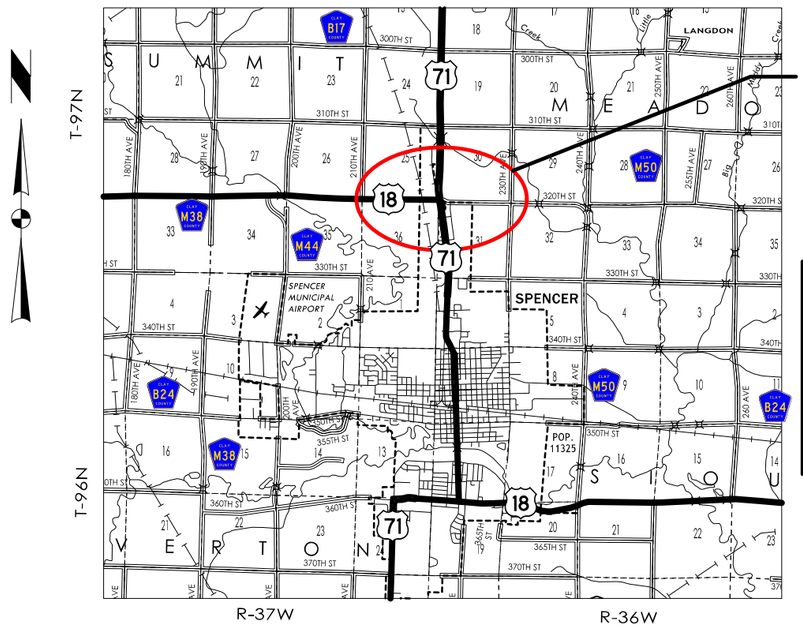
PCC Pavement - Grade and New
HSIPX-018-2(142)--3H-21

CLAY COUNTY

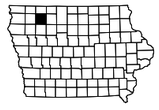
LETTING DATE 9/15/2026

INDEX OF SHEETS

No.	DESCRIPTION
A Sheets	**Title Sheets**
* A.1	Title Sheet
B Sheets	**Typical Cross Sections and Details**
B.1 - 12	Typical Cross Sections and Details
C Sheets	**Quantities and General Information**
C.1 - 5	Estimated Project Quantities and Reference Notes
C.6	Standard Road Plans
C.7 - 22	Tabulations (beg. with tab. of incidentals if needed)
CD Sheets	**Drainage Tabulations**
CD.1	Drainage Tabulations
CS Sheets	**Soils Tabulations**
CS.1 - 2	Soils Tabulations
D Sheets	**Mainline Plan and Profile Sheets**
* D.1	Plan & Profile Legend & Symbol Information Sheet
* D.2 - 4	US18
* D.5 - 9	US71
E Sheets	**Side Road Plan and Profile Sheets**
* E.1 - 3	320th St
* E.4	Circle
* E.5	W 43rd St & 5th Ave W
* E.6	4th Ave W
* E.7	W 37th St
* E.8	2nd Ave
F Sheets	**Detour or Temporary Pavement Sheets**
* F.1	Detour Plan and Profile Sheets
G Sheets	**Survey Sheets**
G.1 - 3	Reference Ties and Bench Marks
G.4 - 8	Horizontal Control Tab. & Super for all Alignments
H Sheets	**Right-of-Way Sheets**
* H.1 - 2	Mainline
* HE.1 - 5	Side Roads



LOCATION MAP SCALE
0 1 2 3
Miles



IOWA DOT

PLANS OF PROPOSED IMPROVEMENT ON THE

PRIMARY ROAD SYSTEM
CLAY COUNTY
PCC Pavement - Grade and New
N US 71 Intersection in Spencer

SCALES: As Noted

Refer to the Proposal Form for list of applicable specifications.

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

PROJECT LOCATION
STA. 634+26 (US18)
STA. 56+92 (US71)
REF. LOC. 77.67

US 18 DESIGN DATA RURAL		
2027 AADT	2,800	V.P.D.
2047 AADT	3,200	V.P.D.
20 – DHV	--	V.P.H.
TRUCKS	28	%
Total Design ESALs	--	

US 71 DESIGN DATA RURAL		
2027 AADT	12,000	V.P.D.
2047 AADT	13,250	V.P.D.
20 – DHV	--	V.P.H.
TRUCKS	6	%
Total Design ESALs	--	

320th Ave DESIGN DATA RURAL		
2027 AADT	960	V.P.D.
2047 AADT	1,100	V.P.D.
20 – DHV	--	V.P.H.
TRUCKS	27	%
Total Design ESALs	--	

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

REVISIONS

TOTAL 399
PROJECT IDENTIFICATION NUMBER
23-21-018-020
PROJECT NUMBER
HSIPX-018-2(142)--3H-21
R.O.W. PROJECT NUMBER
NHSN-018-2(145)--2R-21

INDEX OF SHEETS

No.	DESCRIPTION
J Sheets	**Traffic Control and Staging Sheets**
* J.1	Staging and Traffic Control Legend Sheets
* J.2 - 24	Staging and Traffic Control Sheets
L Sheets	**Geometric, Staking and Jointing Sheets**
* L.1 - 15	Geometric/Staking/Edge profiles Roundabout
* L.16 - 28	Jointing
* L.29 - 36	Geometric/Staking/Edge profiles Sideroads
M Sheets	**Storm Sewer Sheets**
M.1 - 2	Storm Sewer Tabulations
M.3 - 26	Storm Sewer Plan and Profile Sheets
M.27 - 29	Grate Detaild
Q Sheets	**Soils Sheets**
Q.1 - 3	Soils Sheet
R Sheets	**Erosion Control Sheets**
RC.1 - 18	Est. Quantities, PPP, General Notes and Tabulations
* RR.1 - 15	Drainage Basin and Erosion Control Device Maps
S Sheets	**Sidewalk Sheets**
* S.1 - 6	Sidewalk Plan Sheets
* S.7 - 8	Sidewalk Tabulations
T Sheets	**Earthwork Quantity Sheets**
* T.1 - 4	Legend Sheets
T.5 - 17	Earthwork Quantity Sheets
U Sheets	**500 Series, Mod.Stds. and Detail Sheets**
* U.1 - 8	Pavement Removal
* U.9 - 14	Pavement markings
W Sheets	**Mainline Cross Sections**
* W.1	Legend Sheets
* W.2 - 14	US18
* W.15 - 34	US71 NB
* W.35 - 73	US71 SB
* W.74 - 88	DET NB300
* W.89 - 105	Crossover removal
X Sheets	**Side Road Cross Sections**
* X.1 - 14	320th St
* X.15 - 28	W 43rs St/ 5th Ave W
* X.29 - 44	4th Ave W
* X.45 - 50	W 37th St
* X.51 - 59	Circle
	* Color Plan Sheets

INDEX OF SEALS

SHEET NO.	NAME	TYPE	BID QUANTITY SHEETS
A.1	Jason R. Strum	Primary Signature Block	C.1-C.5
CD.1	Jim Ellis	Hydraulic	C.1-C.5
CS.1	Mark A. Dell	Geotechnical	C.1-C.5
RC.1	Rachel A. Harris	Landscape	RC.2

LICENSED PROFESSIONAL ENGINEER
Jason R. Strum
16333
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.

Signature 07/06/2026
Date
Jason R. Strum
Printed or Typed Name

My license renewal date is December 31, 2027

Pages or sheets covered by this seal: A.1, B.1-12, C.1-C.22, D.1-D.9, E.1-E.8, F.1, G.4-G.8, J.1-J.24, L.1-L.36, M.1-M.29, S.1-S.8, T.1-T.17, U.1-U.14, W.1-W.105, X.1-X.59,

FILE NO. | ENGLISH | DESIGN TEAM Strum/Janus | CLAY COUNTY | PROJECT NUMBER HSIPX-018-2(142)--3H-21 | SHEET NUMBER A.1

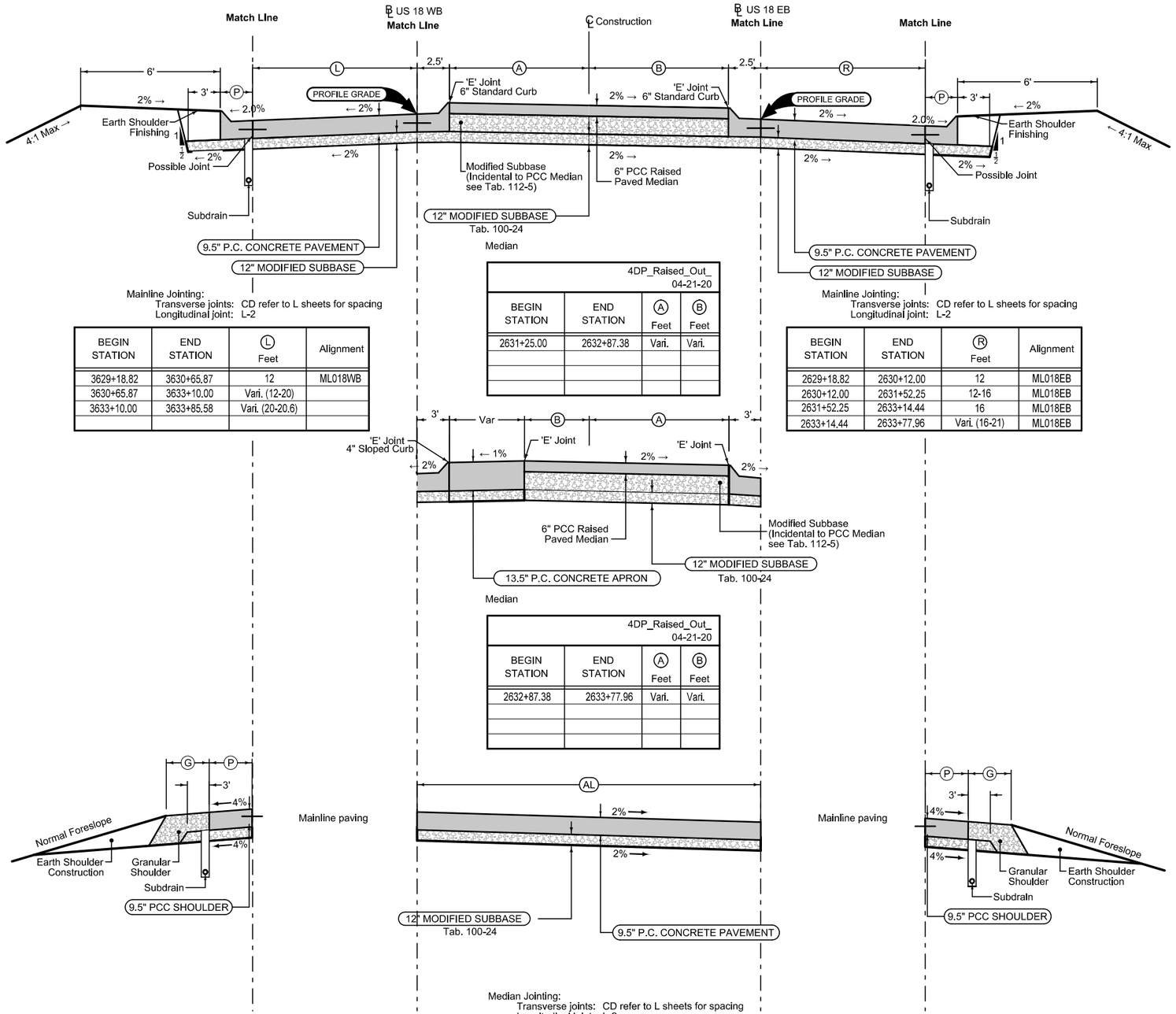
9:53:16 AM 8/4/2026 ajanus2 pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\2101802023\Design\CADD_Files\Sheet_Files\SHT_21018142_A01.dgn

Curbed Shoulder

Shoulder Jointing:
Longitudinal joint not required when distance from back of curb to nearest joint is less than 15':

Single pour: L-2
Staged : BT-2
Transverse: CD refer to L sheets for spacing

2_Curb_ 04-21-20			
STATION TO STATION		(P) Feet	Curb Type See PV-102
3632+11.22	3632+48.62	10-2.5	6" Standard
3632+48.62	3633+03.50	2.5	6" Standard
3632+48.62	3633+85.58	2.5	4" Sloped



Mainline Jointing:
Transverse joints: CD refer to L sheets for spacing
Longitudinal joint: L-2

BEGIN STATION	END STATION	(L) Feet	Alignment
3629+18.82	3630+65.87	12	ML018WB
3630+65.87	3633+10.00	Vari. (12-20)	
3633+10.00	3633+85.58	Vari. (20-20.6)	

4DP_Raised_Out_ 04-21-20			
BEGIN STATION	END STATION	(A) Feet	(B) Feet
2631+25.00	2632+87.38	Vari.	Vari.

BEGIN STATION	END STATION	(R) Feet	Alignment
2629+18.82	2630+12.00	12	ML018EB
2630+12.00	2631+52.25	12-16	ML018EB
2631+52.25	2633+14.44	16	ML018EB
2633+14.44	2633+77.96	Vari. (16-21)	ML018EB

4DP_Raised_Out_ 04-21-20			
BEGIN STATION	END STATION	(A) Feet	(B) Feet
2632+87.38	2633+77.96	Vari.	Vari.

Median Jointing:
Transverse joints: CD refer to L sheets for spacing
Longitudinal joint: L-2

STATION TO STATION		(AL) Feet
2629+90.14	2631+25.00	Vari.

Curbed Shoulder

Shoulder Jointing:
Longitudinal joint not required when distance from back of curb to nearest joint is less than 15':

Single pour: L-2
Staged : BT-2
Transverse: CD refer to L sheets for spacing

2_Curb_ 04-21-20			
STATION TO STATION		(P) Feet	Curb Type See PV-102
2631+92.99	2632+71.70	10-2.5	6" Standard
2632+71.70	2633+77.96	2.5	4" Sloped

Full Depth PCC Combination Shoulder

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

2_C_FullPCC_ 04-20-21			
STATION TO STATION		(P) Feet	(G) Feet
3629+18.82	3632+11.22	5	5

Mainline paving

Mainline paving

Full Depth PCC Combination Shoulder

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

2_C_FullPCC_ 04-20-21			
STATION TO STATION		(P) Feet	(G) Feet
2628+11.46	2631+92.99	5	5

See Tab 100-24 or 100-25 for pavement quantities.

See Tab 112-9 for shoulder quantities.

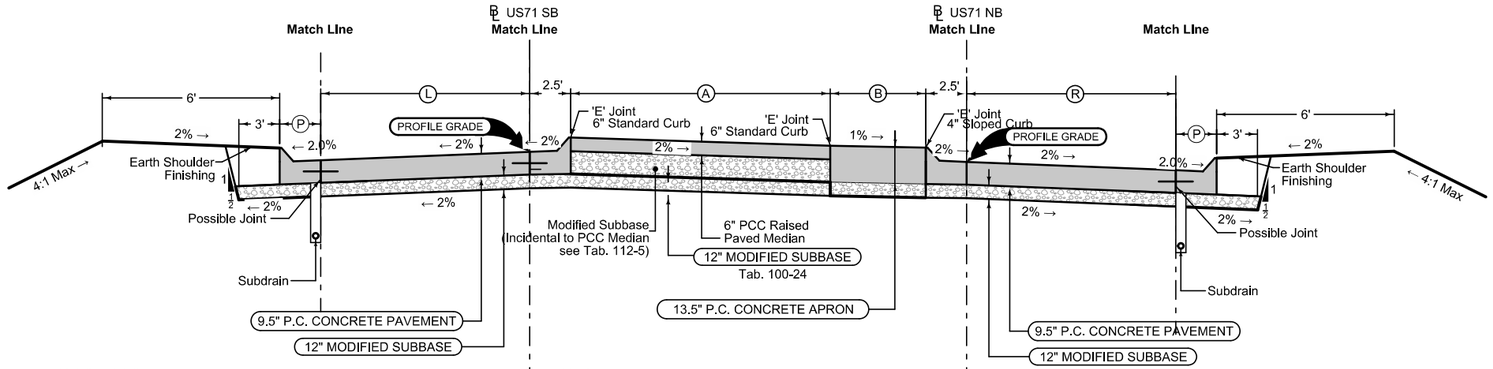
US18

Curbed Shoulder

Shoulder Jointing:
Longitudinal joint not required when distance from back of curb to nearest joint is less than 15':

Single pour: L-2
Staged : BT-2
Transverse: CD refer to L sheets for spacing

STATION TO STATION		(P) Feet	Curb Type See PV-102
			2_Curb_ 04-21-20
5055+16.68	5056+16.24	2.5	6" Standard
5057+98.21	5058+70.05	2.5	6" Standard



Mainline Jointing:
Transverse joints: CD refer to L sheets for spacing
Longitudinal joint: L-2

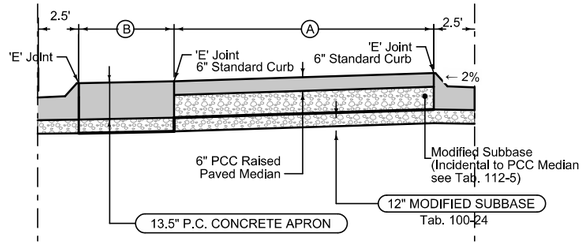
BEGIN STATION	END STATION	(L) Feet	
5055+16.68	5056+16.24	24	ML071SB
5057+98.21	5058+70.05	24	

Median

BEGIN STATION	END STATION	(A) Feet	(B) Feet
			4DP_Raised_Out_ 04-21-20
4055+49.21	4055+73.32	Vari.	0
4055+73.32	4056+20.93	Vari.	Vari.

Mainline Jointing:
Transverse joints: CD refer to L sheets for spacing
Longitudinal joint: L-2

BEGIN STATION	END STATION	(R) Feet	
4055+49.21	4056+20.93	24-30	ML071NB
4057+92.45	4058+92.13	24	



Median

BEGIN STATION	END STATION	(A) Feet	(B) Feet
			4DP_Raised_Out_ 04-21-20
5057+98.21	5058+46.28	Vari.	Vari.
5058+46.28	5058+70.05	Vari.	0

Curbed Shoulder

Shoulder Jointing:
Longitudinal joint not required when distance from back of curb to nearest joint is less than 15':

Single pour: L-2
Staged : BT-2
Transverse: CD refer to L sheets for spacing

STATION TO STATION		(P) Feet	Curb Type See PV-102
			2_Curb_ 04-21-20
4055+49.21	4056+20.93	2.5	6" Standard
4057+92.45	4058+58.50	2.5	6" Standard
4058+58.50	4058+91.87	2.5-9	6" Standard

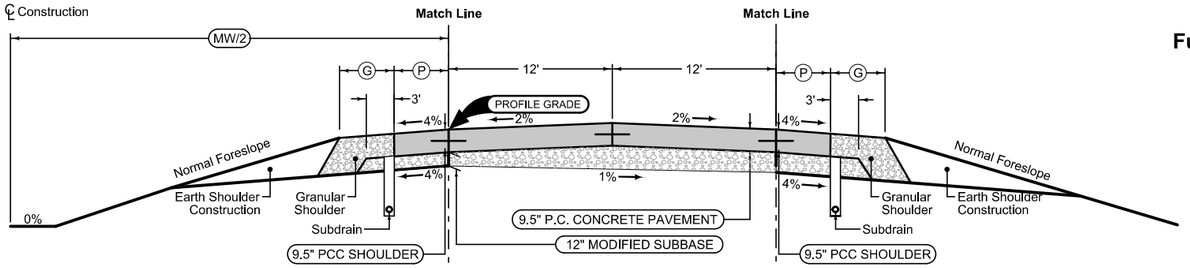
See Tab 100-24 or 100-25 for pavement quantities.
See Tab 112-9 for shoulder quantities.

US 71

Full Depth PCC Combination Shoulder

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

STATION TO STATION		(P) Feet	(G) Feet
		4_C_FullPCC_ MODIFIED	
84+64.63	95+90.88	4	2
4051+47.09	4054+78.54	4	2
4059+29.55	4063+50.05	4	2
68+54.34	71+69.48	4	2
87+53.16	95+07.13	4	2
5053+84.60	5054+86.91	4	2
5059+22.24	5068+10.53	4	2



Section shown in the direction of traffic.

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

Direction of Travel	BEGIN STATION	END STATION	(MW) Feet
		4DP_ 04-21-20	
NB	4051+47.09	4055+49.21	Vari.
NB	4058+92.13	4063+50.05	Vari.
SB	5053+84.60	5055+16.68	Vari.
SB	5058+70.05	5063+11.17	Vari.

Full Depth PCC Combination Shoulder

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

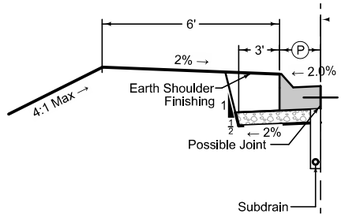
STATION TO STATION		(P) Feet	(G) Feet	
		4_C_FullPCC_ MODIFIED		
4051+47.09	4054+38.54	6	4	ML071NB
4058+96.62	4059+50.05	6	4	ML071NB
93+21.62	103+38.21	6	4	SUR071SB
5050+00.00	5054+84.60	6	4	ML071SB
5059+62.24	5065+01.81	6	4	ML071SB

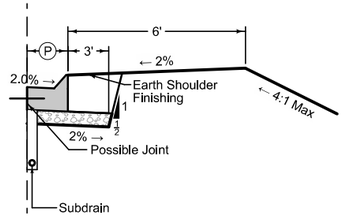
Curbed Shoulder

Shoulder Jointing:
Longitudinal joint not required when distance from back of curb to nearest joint is less than 15':

Single pour: L-2
Staged : BT-2
Transverse: CD refer to L sheets for spacing

STATION TO STATION		(P) Feet	Curb Type See PV-102
		2_Curb_ 04-21-20	
4054+78.54	4055+13.51	6-2.5	6" Standard
4055+13.51	4055+48.81	2.5	6" Standard
4058+91.87	4059+12.19	2.5	6" Standard
4059+12.19	4059+29.29	2.5-6	6" Standard
5054+86.91	5055+04.01	6-2.5	6" Standard
5055+04.01	5055+16.68	2.5	6" Standard





Curbed Shoulder

Shoulder Jointing:
Longitudinal joint not required when distance from back of curb to nearest joint is less than 15':

Single pour: L-2
Staged : BT-2
Transverse: CD refer to L sheets for spacing

STATION TO STATION		(P) Feet	Curb Type See PV-102
		2_Curb_ 04-21-20	
4054+38.54	4055+13.44	10-2.5	6" Standard
4055+13.44	4055+49.21	2.5	6" Standard
4058+92.13	4058+96.89	9-10	6" Standard
5054+65.60	5055+04.01	10-2.5	6" Standard
5055+04.01	5055+16.68	2.5	4" Curbed
5058+70.05	5058+87.24	2.5	6" Standard
5058+87.24	5059+62.24	2.5-10	6" Standard

See Tab 100-24 or 100-25 for pavement quantities.
See Tab 112-9 for shoulder quantities.

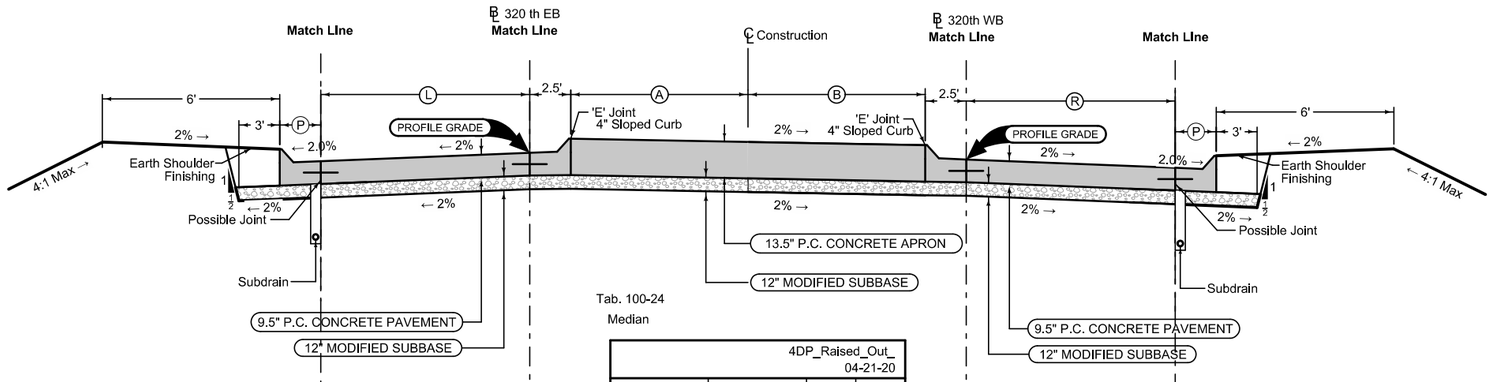
US 71

Curbed Shoulder

Shoulder Jointing:
Longitudinal joint not required when distance from back of curb to nearest joint is less than 15':

Single pour: L-2
Staged : BT-2
Transverse: CD refer to L sheets for spacing

			2_Curb_ 04-21-20
STATION TO STATION		(P) Feet	Curb Type See PV-102
7157+17.45	7158+04.39	2.5	6" Standard
7158+04.39	7158+78.36	2.5-10	6" Standard



Tab. 100-24
Median

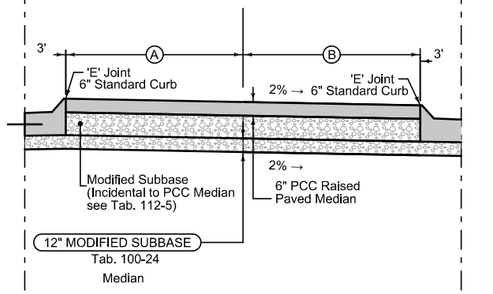
Mainline Jointing:
Transverse joints: CD refer to L sheets for spacing
Longitudinal joint: L-2

BEGIN STATION	END STATION	(L) Feet
7157+17.45	7157+73.55	20-16
7157+73.55	7159+65.00	16
7159+65.00	7161+07.78	16-12
7161+07.78	7164+35.43	12

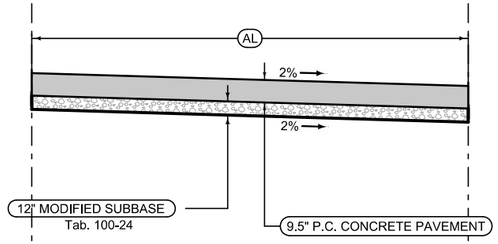
			4DP_Raised_Out_ 04-21-20
BEGIN STATION	END STATION	(A) Feet	(B) Feet
6157+18.94	6158+09.76	Vari.	Vari.

Mainline Jointing:
Transverse joints: CD refer to L sheets for spacing
Longitudinal joint: L-2

BEGIN STATION	END STATION	(R) Feet
6157+18.94	6160+32.54	Vari. (22.6-13.3)
6160+32.54	6160+52.00	Vari. (13.3-15.5)
6160+52.00	6161+40.00	Vari. (15.5-24)
6161+40.00	6164+35.43	24



			4DP_Raised_Out_ 04-21-20
BEGIN STATION	END STATION	(A) Feet	(B) Feet
6158+09.76	6159+81.15	Vari.	Vari.



Median Jointing:
Transverse joints: CD refer to L sheets for spacing
Longitudinal joint: L-2

STATION TO STATION			(AL) Feet
6159+81.15	6161+74..59		13.2-0

Curbed Shoulder

Shoulder Jointing:
Longitudinal joint not required when distance from back of curb to nearest joint is less than 15':

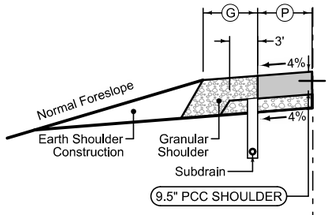
Single pour: L-2
Staged : BT-2
Transverse: CD refer to L sheets for spacing

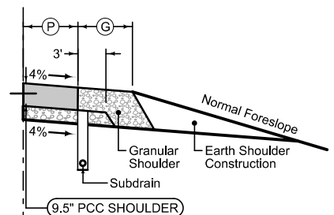
			2_Curb_ 04-21-20
STATION TO STATION		(P) Feet	Curb Type See PV-102
6157+18+94	6158+10.07	2.5	6" Standard
6158+10.07	6158+29.92	2.5-6.4	6" Standard
6158+29.92	6158+49.24	6.4-10	4" Sloped

Full Depth PCC Combination Shoulder

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

			2_C_FullPCC_ 04-20-21
STATION TO STATION		(P) Feet	(G) Feet
7158+78.36	7164+35.43	5	5





Full Depth PCC Combination Shoulder

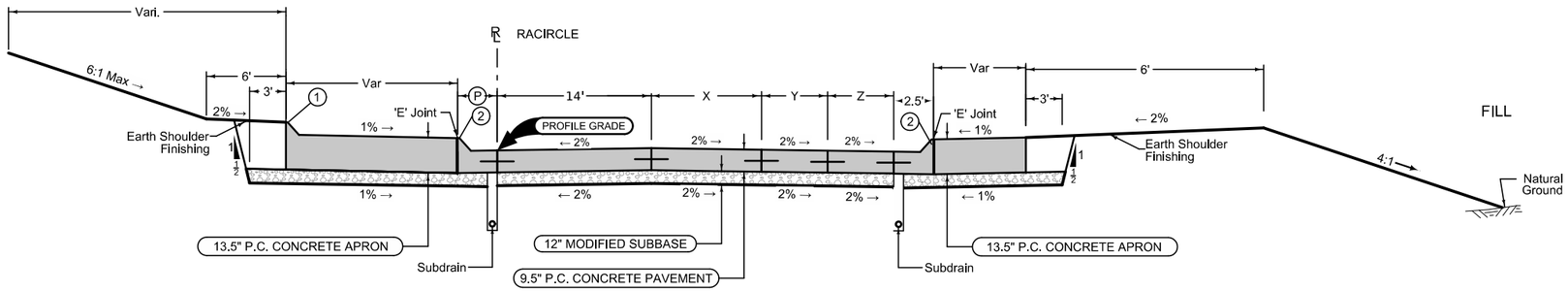
Shoulder Jointing:
Longitudinal joint: BT-2 or L-2
Transverse joints: C at 17' spacing

			2_C_FullPCC_ 04-20-21
STATION TO STATION		(P) Feet	(G) Feet
6158+49.24	6160+32.54	5	5
6160+32.54	6163+25.00	4	2

See Tab 100-24 or 100-25 for pavement quantities.

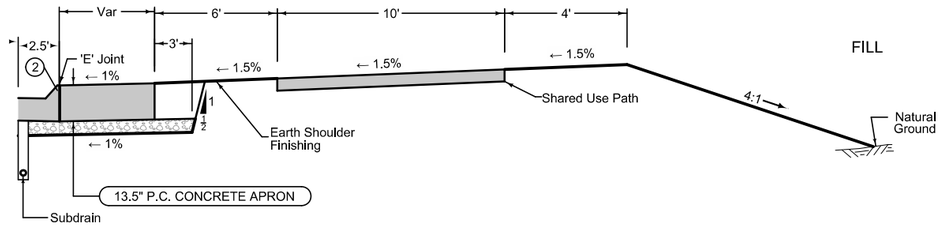
See Tab 112-9 for shoulder quantities.

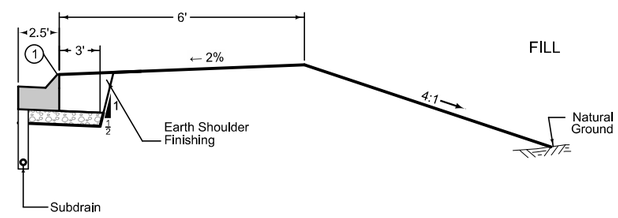
320th St



LOCATION			Ⓟ	Ⓧ	Ⓨ	Ⓩ
ROAD IDENTIFICATION	STATION TO STATION		Feet	Feet	Feet	Feet
RACIRCLE	1000+00.00	1000+13.00	3	6	Vari	Vari
	1000+13.00	1000+77.91	3	10	6	Vari
	1000+77.91	1000+95.41	3	6	10	Vari
	1000+95.41	1002+22.37	3	6	Vari.	Vari
	1002+22.37	1002+96.19	3	10	6	Vari
	1002+96.19	1003+22.14	3	6	10	Vari
	1003+22.14	1004+27.26	3	6	Vari.	Vari

Note: See 'L' Sheets for Jointing Layout





See Tab 100-24 or 100-25 for pavement quantities.

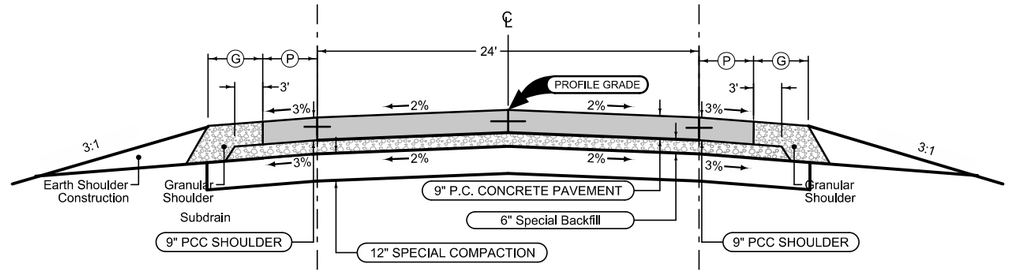
See Tab 112-9 for shoulder quantities.

Roundabout

Combination Shoulder

Shoulder Jointing:
Longitudinal joint: BT-2

2_C_ 04-21-20			
STATION TO STATION		(P) Feet	(G) Feet
9609+44.76	9614+81.27	2	2
9617+83.95	9626+42.00	2	2



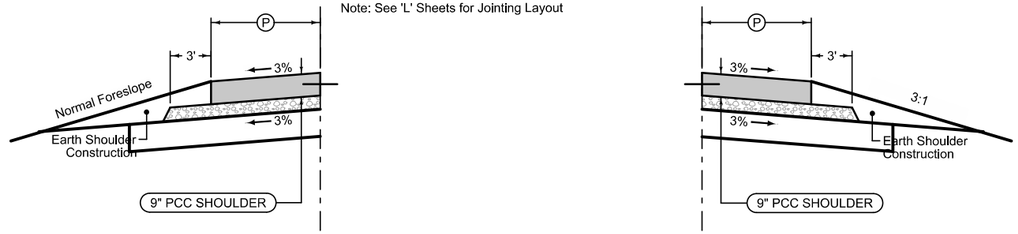
LOCATION		
ROAD IDENTIFICATION	STATION TO STATION	
43rd ST W (SRW43)	9609+44.76	9614+81.27
W 5th Ave (SRW43)	9614+81.27	9626+42.00

Note: See 'L' Sheets for Jointing Layout

Full Depth PCC Shoulder

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

2_P_FullPCC_ 04-15-25		
STATION TO STATION		(P) Feet
9614+81.27	9617+83.95	4



Combination Shoulder

Shoulder Jointing:
Longitudinal joint: BT-2

2_C_ 04-21-20			
STATION TO STATION		(P) Feet	(G) Feet
9609+44.76	9614+81.27	2	2
9617+83.95	9626+42.00	2	2

Full Depth PCC Shoulder

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

2_P_FullPCC_ 04-15-25		
STATION TO STATION		(P) Feet
9614+81.27	9617+83.95	4

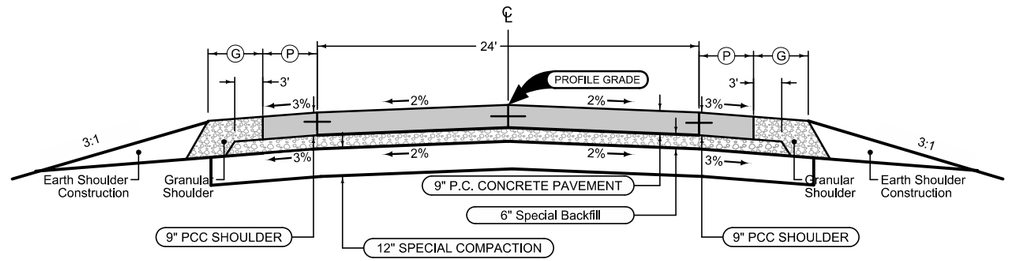
See Tab 100-24 or 100-25 for pavement quantities.
See Tab 112-9 for shoulder quantities.

W 43rd St & 5th Ave W

Combination Shoulder

Shoulder Jointing:
Longitudinal joint: BT-2

		2_C_ 04-21-20	
STATION TO STATION		(P) Feet	(G) Feet
19591+61.69	19610+10.16	2	2



LOCATION		
ROAD IDENTIFICATION	STATION TO STATION	
4th Ave W	19591+56.47	19610+00.92

Note: See 'L' Sheets for Jointing Layout

Combination Shoulder

Shoulder Jointing:
Longitudinal joint: BT-2

		2_C_ 04-21-20	
STATION TO STATION		(P) Feet	(G) Feet
19591+61.69	19610+10.16	2	2

See Tab 100-24 or 100-25 for pavement quantities.

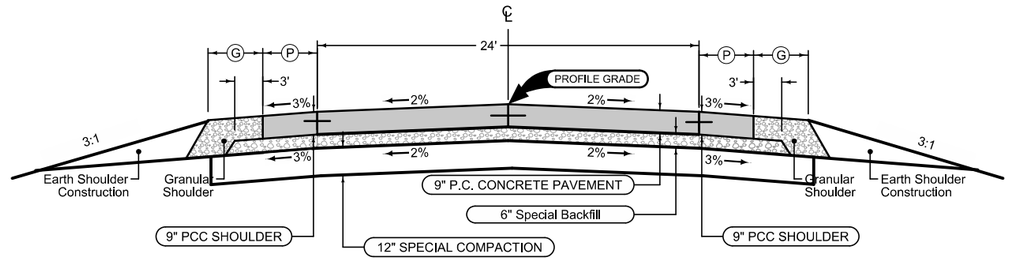
See Tab 112-9 for shoulder quantities.

4th Ave W

Combination Shoulder

Shoulder Jointing:
Longitudinal joint: B

		2_C_ 04-21-20	
STATION TO STATION		(P) Feet	(G) Feet
20000+11.93	20005+00.72	2	2



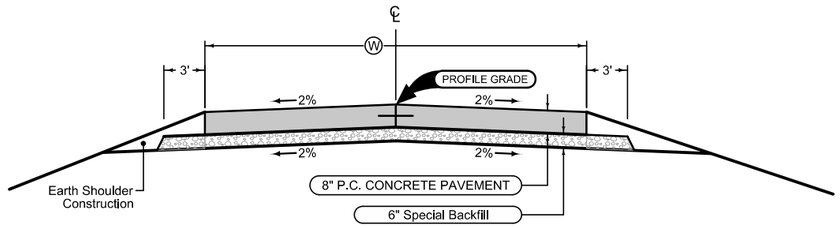
LOCATION		
ROAD IDENTIFICATION	STATION TO STATION	
W 37 th Ave (SRW37)	20076+68.47	20081+54.86

Note: See 'L' Sheets for Jointing Layout

See Tab 100-24 or 100-25 for pavement quantities.

See Tab 112-9 for shoulder quantities.

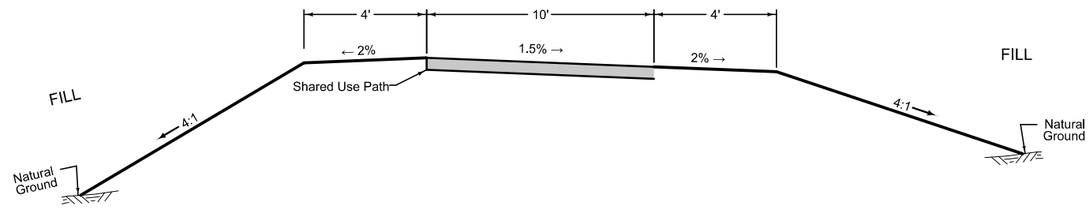
W 37TH ST



ROAD IDENTIFICATION	Ⓦ Feet
ENT24 (2nd Ave)	24
ENT9225 (4th Ave W)	36

See Tab 102-3 for pavement quantities.

PAVED ENTRANCE



Shared Use Path

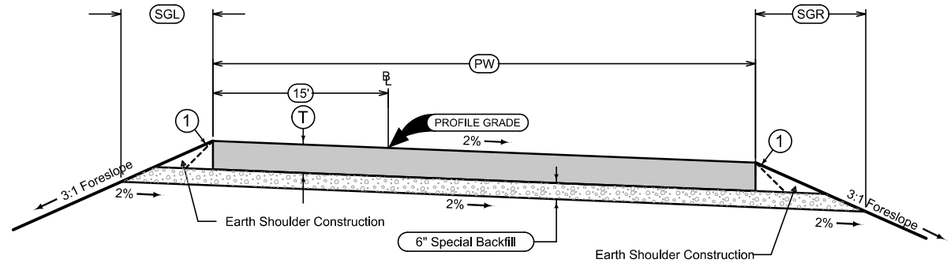
LOCATION			DIMENSIONS								
ROAD IDENTIFICATION	STATION TO STATION		HMA				PCC				
			(PW) Feet	(T) Inches	(SGL) Feet	(SGR) Feet	(PW) Feet	(T) Inches	(SGL) Feet	(SGR) Feet	
DETNB300	451+47.09	453+86.00	Vari.	12	0	4.79	Vari.	9	0	3.99	
DETNB300	453+86.00	456+59.61	Vari.	12	4.25	4.79	Vari.	9	3.54	3.99	
DETNB300	456+59.61	456+92.56	Vari.	12	0	0	Vari.	9	0	0	
DETNB300	457+72.23	463+24.69	Vari.	12	0	4.79	Vari.	9	0	3.99	

Quantity calculations based on vertical pavement edges.

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

(1) Possible HMA 1:1 slope

D_Detour
MODIFIED

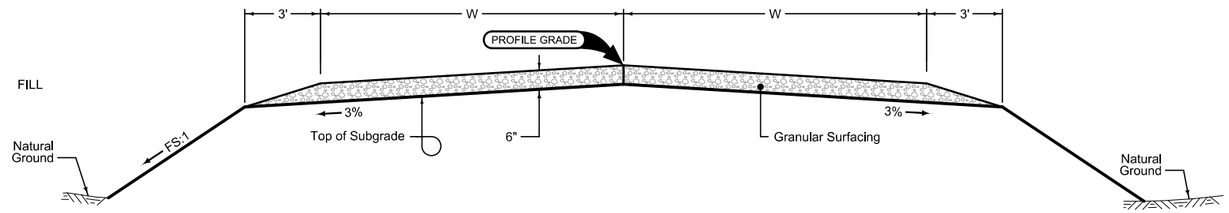


DETOUR PAVING

DESIGNER INFORMATION

LOCATION			DIMENSIONS		
ROAD IDENTIFICATION	STATION TO STATION		W Feet	FS	
4th Ave W	19591+25.00	19591+56.47	14-16	3	
4th Ave W	19610+00.92	19612+03.48	16-12	3	

G_2_GradeGran
10-17-17

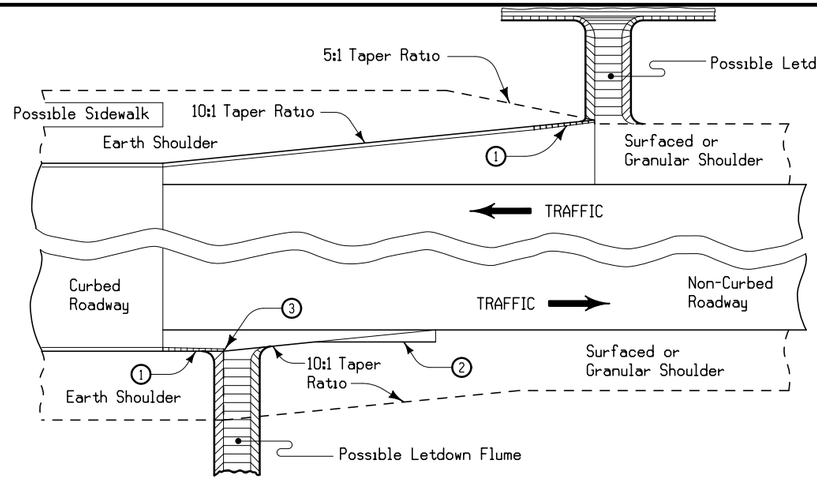


GRADING AND GRANULAR SURFACING

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

See plan & profile sheets and cross sections for additional details of ditches and backslopes.

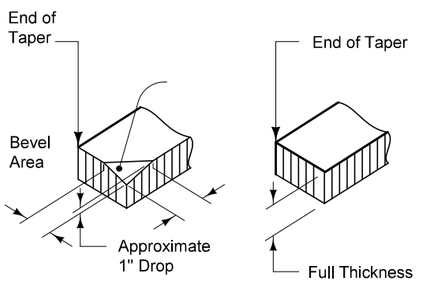
6147
10-20-15



1. Runout curb according to PV-102
2. End of Taper Details see Typical Detail 7101
3. End earth shoulder at the end of the curb transition when no flume is needed.

TRANSITION BETWEEN CURBED AND NON-CURBED ROADWAYS

7101
10-19-10



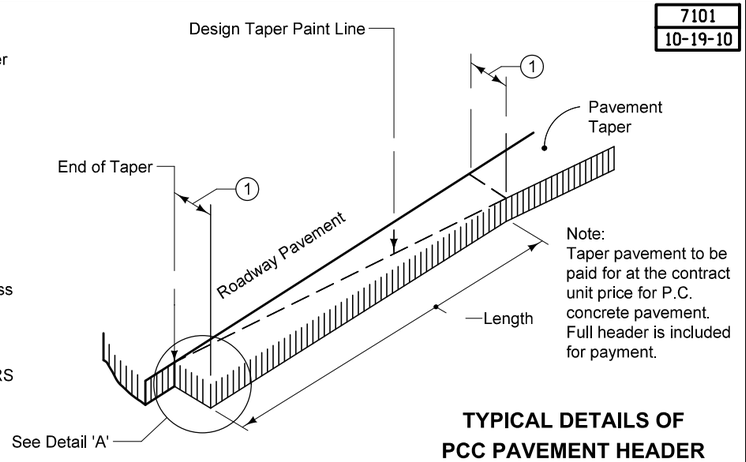
DETAIL 'A'

FOR
GRANULAR SHOULDERS

DETAIL 'A'

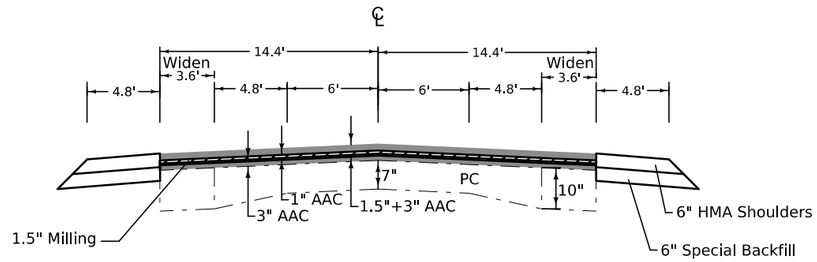
FOR
PAVED SHOULDERS

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

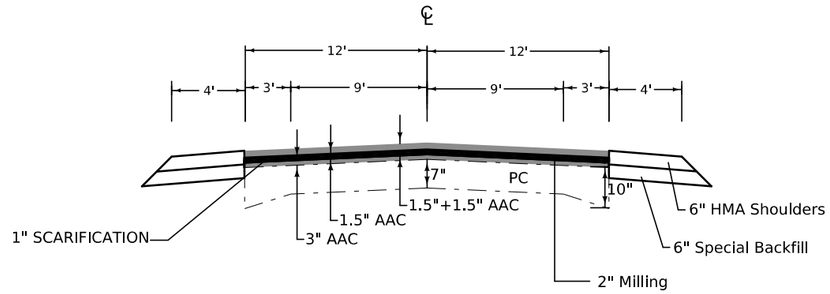


Note:
Taper pavement to be paid for at the contract unit price for P.C. concrete pavement. Full header is included for payment.

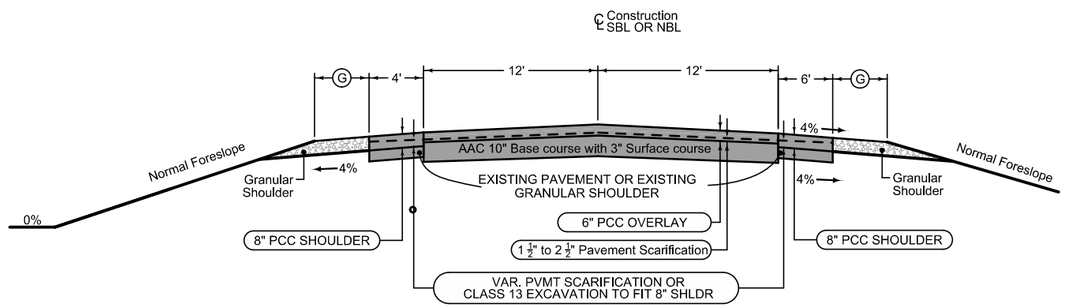
TYPICAL DETAILS OF PCC PAVEMENT HEADER



Existing US18
FOR INFORMATION ONLY



Existing US18/US71 South of 320th St
FOR INFORMATION ONLY

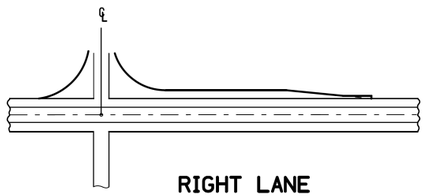


Existing US71 North of 320th St
FOR INFORMATION ONLY

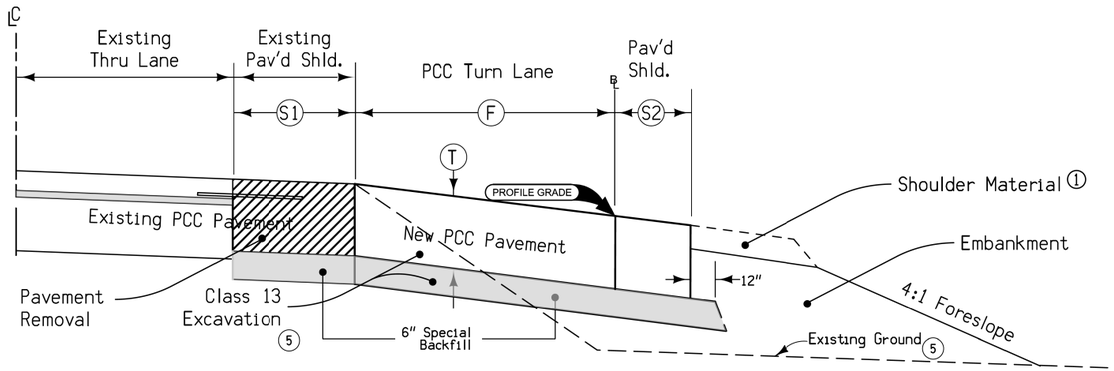
FILE NO.	ENGLISH	DESIGN TEAM **Strum/Janus**	**CLAY** COUNTY	PROJECT NUMBER **HSIPX-018-2(142)--3H-21**	SHEET NUMBER **B.11**	

4:19:56 PM 6/29/2026 jstrum pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\2101802023\Design\CADD_Files\Sheet_Files\SHT_21018142_B01.dgn

RTRN-1



RIGHT LANE



Notes:
Normal section shown may be Modified appropriately in areas of superelevated curves or other locations specifically designated by the engineer.

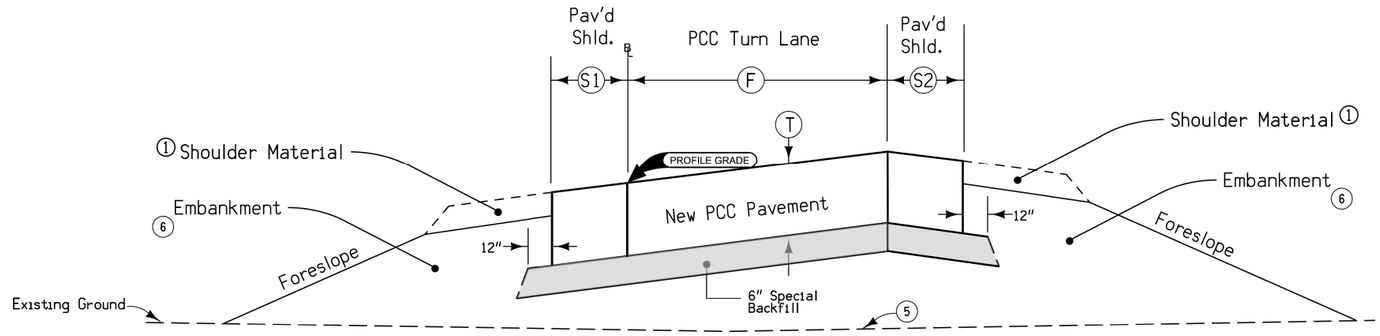
(1) Shoulder material as specified elsewhere in these plans; refer to typical 7135 on Sheet B.2 for "Type 'B' Granular Surfaced Shoulders."
(2) Includes taper and area thru intersection.
(3) Incidental to pavement removal.
(4) Refer to "U" sheets for additional details.
(5) 6-inches of top soil included in quantity.
(6) Rate has been adjusted to account for 30% shrink.

LOCATION		Side	(T)	(S1)	(F)	(S2)	Design Quantities Per Location (2)						Remarks
ROAD IDENTIFICATION	STATION TO STATION		Inches	Feet	Feet	Feet	CLASS 13 EXCAVATION (5) Cu. Yds.	10" PCC, SLIP-FORM PAVING Cu. Yds.	SPECIAL BACKFILL Tons	EMBANKMENT IN-PLACE (6) Cu. Yds.	SAWCUT (3) Lin. Ft.	PAVEMENT REMOVAL Sq. Yds.	
US 71/US 18	64+76.72 to 57+10.35	RT	10	0-18	14	2	714.4	2,098.7	689	2475.3	859	662.4	Southbound

Existing Pavement For Information Only

TYPICAL HALF SECTION
RIGHT TURN LANE

LTRN-1



Notes:
Normal section shown may be Modified appropriately in areas of superelevated curves or other locations specifically designated by the engineer.

(1) Shoulder material as specified elsewhere in these plans; refer to typical 7135 on Sheet B.2 for "Type 'B' Granular Surfaced Shoulders."
(2) Includes taper and area thru intersection.
(3) Incidental to pavement removal.
(4) Refer to "U" sheets for additional details.
(5) 6-inches of top soil included in quantity.
(6) Rate has been adjusted to account for 30% shrink.

LOCATION		Side	(T)	(S1)	(F)	(S2)	Design Quantities Per Location (2)						Remarks
ROAD IDENTIFICATION	STATION TO STATION		Inches	Feet	Feet	Feet	CLASS 13 EXCAVATION (5) Cu. Yds.	10" PCC, SLIP-FORM PAVING Sq. Yds.	SPECIAL BACKFILL Tons	EMBANKMENT IN-PLACE (6) Cu. Yds.	SAWCUT (3) Lin. Ft.	PAVEMENT REMOVAL Sq. Yds.	
US 71/US 18	51+54.11 to 57+56.06	LT	10	2	16	4	954.7	1,398.4	466	767.2	669	925.1	Northbound
US 71/US 18	67+82.65 to 52+59.99	LT	10	2	16	4	1348.3	2,694.8	895.6	3357.9	1514	901.7	Southbound

Existing Pavement For Information Only

TYPICAL HALF SECTION
LEFT TURN LANE

ESTIMATED PROJECT QUANTITIES AND REFERENCE NOTES

Item no.	Item Code	Item	Unit	Quantities	Estimate Reference Notes
				Estimated	
				Roadway Items	
1	2102-0425071	SPECIAL BACKFILL	CY	6,430.63	Refer to typical "W 43rd St & 5th Ave W on Sheet B.6, typicals "4th Ave W" and "W 37th ST" on Sheet B.7, typical "Paved Entrance" on Sheet B.8, and Detour typical on Sheet B.9. Refer to Tab. 100-24 on Sheet C.7-C.8, Tab 112-9 on Sheet C.9, and Tab. 102-3 on Sheet C.11.
2	2102-2625000	EMBANKMENT-IN-PLACE	CY	11,390	Refer to Tab. 107-28 on T sheets.
3	2102-2710070	EXCAVATION, CLASS 10, ROADWAY AND BORROW	CY	15,834	Refer to Tab. 107-28 on T sheets.
4	2102-2710090	EXCAVATION, CLASS 10, WASTE	CY	9,158	Refer to Tab. 107-28 on T sheets.
5	2102-2712015	EXCAVATION, CLASS 12, BOULDERS OR ROCK FRAGMENTS	CY	5	A. Refer to Tab. 103-7 on sheet CS.1
6	2102-4560000	LOCATING TILE LINES	STA	103.2	Locate tile lines in accordance with Section 2102.03,H,3. The engineer may adjust locations to fit field conditions.
7	2105-8425015	TOPSOIL, STRIP, SALVAGE AND SPREAD	CY	16,864	Refer to Tab. 103-10 on Sheet CS.1 and Tab. 107-28 T Sheets. Quantity based on 12 inches stripping and spreading 8 inches. Excess topsoil can be used for earth shoulder construction or spread evenly on the foreslope.
8	2107-0875100	COMPACTION WITH MOISTURE CONTROL	CY	23,563	Refer to T sheets.
9	2109-8225100	SPECIAL COMPACTION OF SUBGRADE	STA	40.28	Item is included for W 37th St, 4th Ave W, W 43rd St, and 5th Ave W. Refer to Sheet B.6, B.7. Scarify pavement base, blade mix and compact to 98 percent of the maximum standard proctor density in two 6" lifts.
10	2115-0100000	MODIFIED SUBBASE	CY	7,898.34	Refer to Typicals US18, US71, 320th, and Roundabout on Sheet B.1-B.5. Refer to Tab. 100-24 on Sheet C.7-C.8 and Tab 112-9 on Sheet C.9.
11	2121-7425010	GRANULAR SHOULDERS, TYPE A	TON	3,375.5	Refer to Tab. 112-9 on Sheet C.9.
12	2122-5190009	PAVED SHOULDER, P.C. CONCRETE, 9 IN.	SY	1,909.1	Refer to Tab. 112-9 on Sheet C.9.
13	2122-5190095	PAVED SHOULDER, P.C. CONCRETE, 9.5 IN.	SY	4,270.4	

Item no.	Item Code	Item	Unit	Quantities	Estimate Reference Notes
				Estimated	
				Roadway Items	
14	2123-7450000	SHOULDER CONSTRUCTION, EARTH	STA	168.6	Refer to Tab. 112-9 on Sheet C.9. Requires 4108.7 cu. yds. of Material (878.9 cu. yds of Class 10 and 3,229.8 cu. yds of topsoil) for Earth Shoulder Fill.
15	2123-7450020	SHOULDER FINISHING, EARTH	STA	11.66	
16	2301-1033090	STANDARD OR SLIP FORM PORTLAND CEMENT CONCRETE PAVEMENT, CLASS C, CLASS 3 DURABILITY, 9 IN.	SY	11,648.5	Refer to typical "W 43rs St & 5th Ave W" on Sheet B.6 and typical "4th Ave W" and "W 37th St" on Sheet B.7. Refer to Tab. 100-24 on Sheet C.7-C.8.
17	2301-1033095	STANDARD OR SLIP FORM PORTLAND CEMENT CONCRETE PAVEMENT, CLASS C, CLASS 3 DURABILITY, 9.5 IN.	SY	11,088.6	Refer to Typicals US18, US71, 320th, and Roundabout on Sheet B.1-B.5. Refer to Tab. 100-24 on Sheet C.7-C.8.
18	2301-4875006	MEDIAN, P.C. CONCRETE, 6 IN.	SY	1,141.5	Refer to Tab. 112-5 on Sheet C.11
19	2301-7000110	PAYMENT ADJUSTMENT INCENTIVE/DISINCENTIVE FOR PCC PAVEMENT THICKNESS (BY SCHEDULE)	EACH	26,602	
20	2304-0100000	DETOUR PAVEMENT 9 IN PCC or 12 IN HMA	SY	3,706.4	Refer to Detour Typical on Sheet B.9. Refer to Tab. 100-24 on Sheet C.8.
21	2312-8260051	GRANULAR SURFACING ON ROAD, CLASS A CRUSHED STONE	TON	231.5	See Typical _2-_GradeGran on Sheet B.9 for side road surfacing details.
22	2315-8275055	SURFACING, DRIVEWAY	TON	457.9	Refer to Tab. 102-3 on Sheet C11. Quantity based on 4" thickness. Includes 300 Tons for temporary access along 4th Ave during Stage 2C. Quantity based on 3" thickness.
23	2317-7000110	PAYMENT ADJUSTMENT INCENTIVE/DISINCENTIVE FOR PCC PAVEMENT SMOOTHNESS (BY SCHEDULE)	EACH	17,053	
24	2402-0425040	FLOODED BACKFILL	CY	166.8	Refer to Tab. 104-3 on Sheet CD.1.
25	2402-2720100	EXCAVATION, CLASS 20, FOR ROADWAY PIPE CULVERT	CY	139.8	Refer to Tab. 104-3 on Sheet CD.1, and Tab. 104-3TEMP on Sheet C.12.
26	2416-0100012	APRONS, CONCRETE, 12 IN. DIA.	EACH	1	Refer to Tab 104-5B on sheet M.1 for details.
27	2416-0100015	APRONS, CONCRETE, 15 IN. DIA.	EACH	14	
28	2416-0100018	APRONS, CONCRETE, 18 IN. DIA.	EACH	1	Refer to Tab. 104-3 on Sheet CD.1 for details.
29	2416-0100024	APRONS, CONCRETE, 24 IN. DIA.	EACH	6	Refer to Tab. 104-3 on Sheet CD.1 for details.
30	2416-0102224	APRON, LOW CLEARANCE CONCRETE, EQUIVALENT DIAMETER 24 IN.	EACH	6	Refer to Tab. 104-3 on Sheet CD.1, and Tab. 102-3 on Sheet C.11.
31	2416-0102236	APRON, LOW CLEARANCE CONCRETE, EQUIVALENT DIAMETER 36 IN.	EACH	4	Refer to Tab. 104-3 on Sheet CD.1.
32	2416-1180018	CULVERT, CONCRETE ROADWAY PIPE, 18 IN. DIA.	LF	8	
33	2416-1180024	CULVERT, CONCRETE ROADWAY PIPE, 24 IN. DIA.	LF	206	

Item no.	Item Code	Item	Unit	Quantities	Estimate Reference Notes
				Estimated	
				Roadway Items	
34	2416-1190224	CULVERT, LOW CLEARANCE CONCRETE ENTRANCE PIPE, EQUIVALENT DIAMETER 24 IN.	LF	58	Refer to Tab. 102-3 on Sheet C.11.
35	2416-1200224	CULVERT, LOW CLEARANCE CONCRETE ROADWAY PIPE, EQUIVALENT DIAMETER 24 IN.	LF	72	Refer to Tab. 104-3 on Sheet CD.1.
36	2416-1200236	CULVERT, LOW CLEARANCE CONCRETE ROADWAY PIPE, EQUIVALENT DIAMETER 36 IN.	LF	2	
37	2422-0360000	UNCLASSIFIED APRONS, 12 IN. DIA.	EACH	4	Refer to Tab 104-3TEMP on Sheet C.12. No polyethylene pipe allowed. Method of measurement and basis of payment: Refer to Section 2244 of Standard Specification.
38	2422-0360024	APRONS, UNCLASSIFIED, 24 IN. DIA.	EACH	2	Refer to Tab 104-3TEMP on Sheet C.
39	2422-1720000	UNCLASSIFIED PIPE CULVERT, 12 IN. DIA.	LF	108	Refer to Tab 104-3TEMP on Sheet C.12. No polyethylene pipe allowed. Method of measurement and basis of payment: Refer to Section 2244 of Standard Specification.
40	2422-1723024	CULVERT, UNCLASSIFIED ROADWAY PIPE, 24 IN. DIA.	LF	188	Refer to Tab 104-3TEMP on Sheet C.12.
41	2435-0140148	MANHOLE, STORM SEWER, SW-401, 48 IN.	EACH	1	Refer to M sheets for details Includes one 4'10" round, 1 inch thick steel plates for 'Well Only' manhole installed during stage 2.
42	2435-0250100	INTAKE, SW-501	EACH	8	Refer to M sheets for details Includes two 4'x3', 1 inch thick steel plates for 'Well Only' intakes installed during stage 2.
43	2435-0250248	INTAKE, SW-502, 48 IN.	EACH	14	Refer to M sheets for details. Includes two 4'10" round, 1 inch thick steel plates for 'Well Only' intakes installed during stage 2.
44	2435-0250700	INTAKE, SW-507	EACH	6	Refer to M sheets for details Includes two 4'x5', 1 inch thick steel plates for 'Well Only' intakes installed during stage 2.
45	2435-0254100	INTAKE, SW-541	EACH	2	Refer to M sheets for details
46	2502-6745952	REMOVAL OF SUBDRAIN	LF	2,063.7	Refer to Tab 110-19 on sheet CS.1 for details

Item no.	Item Code	Item	Unit	Quantities	Estimate Reference Notes
				Estimated	
				Roadway Items	
47	2502-8212034	SUBDRAIN, LONGITUDINAL, (SHOULDER) 4 IN. DIA.	LF	4,527.1	Refer to Tab 104-09A on sheet CS.2 for details
48	2502-8221303	SUBDRAIN OUTLET, DR-303	EACH	8	
49	2502-8221306	SUBDRAIN OUTLET, DR-306	EACH	20	
50	2503-0114212	STORM SEWER GRAVITY MAIN, TRENCHED, REINFORCED CONCRETE PIPE (RCP), 2000D (CLASS III), 12 IN.	LF	32	Refer to Tab 104-5B on sheet M.1 for details
51	2503-0114215	STORM SEWER GRAVITY MAIN, TRENCHED, REINFORCED CONCRETE PIPE (RCP), 2000D (CLASS III), 15 IN.	LF	1,150	
52	2506-4984000	FLOWABLE MORTAR	CY	68.5	Refer to Tab. 104-3 on Sheet CD.1.
53	2510-6745850	REMOVAL OF PAVEMENT	SY	32,336.4	Refer to U Sheets and Tab 110-1 and 102-5 on Sheet C.13 for details. Includes 1343.3 SY of removal of concrete drives. Includes 1213.4 SY of sidewalk removal.
54	2511-7526006	SIDEWALK, P.C. CONCRETE, 6 IN.	SY	868.7	Refer to Tab. 113-1 on Sheet C.12.
55	2511-7528101	DETECTABLE WARNINGS	SF	200	Detectable warning panels shall be cast iron.
56	2512-1725256	CURB AND GUTTER, P.C. CONCRETE, 2.5 FT.	LF	3,145.6	Refer to Tab. 112-4 on Sheet C.10.
57	2512-1725306	CURB AND GUTTER, P.C. CONCRETE, 3.0 FT.	LF	427.3	
58	2515-2475008	DRIVEWAY, P.C. CONCRETE, 8 IN.	SY	1,485.8	Refer to Tab 102-3 on Sheet C.11.
59	2526-8285040	CONSTRUCTION SURVEY, LOCATION SURVEY	LS	1	
60	2527-9263155	PRE-CUT SYMBOLS AND LEGENDS, PREFORMED THERMOPLASTIC MARKING MATERIAL	EACH	14	Refer to J sheets and Tab 108-29 on sheet C.14 for details.
61	2527-9263181	PAVEMENT MARKINGS REMOVED	STA	320.59	Refer to J sheets and Tab 108-22 on sheet C.15-C.21 for details.
62	2527-9263209	PAINTED PAVEMENT MARKINGS, WATERBORNE OR SOLVENT-BASED	STA	488.5	Refer to J sheets and Tab 108-22 on sheet C.15-C.21 for details
63	2527-9263212	PAINTED PAVEMENT MARKINGS, HIGH-BUILD WATERBORNE	STA	151.12	Refer to J sheets and Tab 108-22 on sheet C.15-C.21 for details.
64	2527-9263225	PERMANENT TAPE MARKINGS, PREFORMED THERMOPLASTIC MARKING MATERIAL	STA	17.54	Refer to J sheets and Tab 108-22 on sheet C.15-C.21 for details Item is intended for any final/permanent hash marks and radius/transverse lines that can not be painted with a truck.
65	2527-9263231	REMOVABLE TAPE MARKINGS, WET RETROREFLECTIVE	STA	133.78	Refer to J sheets and Tab 108-22 on sheet C.15-C.21 for details. Payment includes removal.
66	2527-9270112	GROOVES CUT FOR PAVEMENT MARKINGS	STA	297.08	Refer to J sheets and Tab 108-22 on sheet C.15-C.21 for details

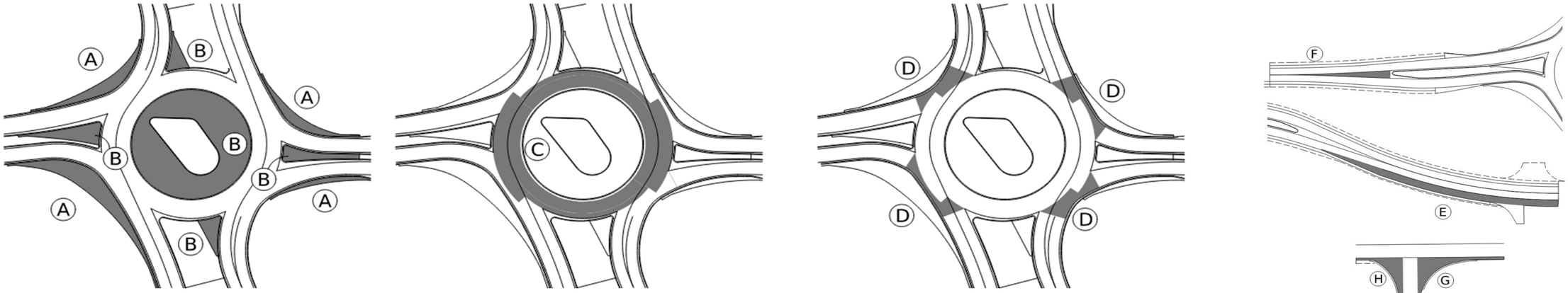
Item no.	Item Code	Item	Unit	Quantities	Estimate Reference Notes
				Estimated	
				Roadway Items	
67	2527-9270120	GROOVES CUT FOR SYMBOLS AND LEGENDS	EACH	14	Refer to J sheets and Tab 108-29 on sheet C.14 for details.
68	2528-2518000	SAFETY CLOSURE	EACH	20	Refer to J sheets and Tab 108-13A on sheet C.19 for locations
69	2528-8400157	TEMPORARY FLOODLIGHTING LUMINAIRE	EACH	8	Refer to J sheets and Tab. 108-27 on Sheet C.22 for details
70	2528-8445110	TRAFFIC CONTROL	LS	1	Refer to J sheets for details
71	2528-9109020	TEMPORARY LANE SEPARATOR SYSTEM	LF	3,080	Refer to J sheets and Tab 108-35 on sheet C.19 for locations
72	2528-9290050	PORTABLE DYNAMIC MESSAGE SIGN (PDMS)	CDAY	0	See Proposal.
73	2533-4980005	MOBILIZATION	LS	1	- -
74	2599-9999018	('SQUARE YARDS' ITEM) STANDARD OR SLIP FORM PORTLAND CEMENT CONCRETE PAVEMENT, CLASS C, CLASS 3 DURABILITY, 13.5 IN.	SY	2,049.4	Refer To Tab.100-24 on Sheet C.6-C.7. Refer to Special Provisions for Colored Portland Cement Concrete. Method of Measurement and Basis of Payment: Section 2301 of the current Standard Specifications applies

STANDARD ROAD PLANS

The following Standard Road Plans apply to construction work on this project.

DR-101	4/18/2017	Pipe Culvert (Bedding and Backfill)
DR-102	4/21/2015	Pipe Culvert (Cover and Camber)
DR-103	4/21/2015	Pipe Culvert (Installation Details)
DR-104	4/19/2016	Depth of Cover Tables for Concrete and Corrugated Pipe
DR-121	4/18/2023	Connected Pipe Joints
DR-122	10/18/2016	Construction of Type "C" Concrete Adaptors for Pipe Culvert Connections
DR-141	4/18/2017	Pipe Bends
DR-201	10/17/2023	Concrete Aprons
DR-202	10/17/2023	Low Clearance Concrete Pipe Aprons
DR-203	4/21/2020	Metal Pipe Aprons and Beveled Ends
DR-213	10/18/2022	Pipe Apron Guard
DR-303	10/17/2017	Subdrains (Longitudinal)
DR-306	10/17/2023	Precast Concrete Headwall for Subdrain Outlets
DR-601	4/18/2017	Reinforced Concrete Pipe Culvert
DR-621	4/18/2017	Pipe Extension
DR-651	4/18/2017	Unclassified Pipe Culvert
EW-101	10/17/2017	Embankment and Rebuilding Embankments
EW-102	10/20/2015	Allowable Placement of Unsuitable Soil in Embankments
EW-501	10/17/2023	Rural Entrance
EW-503	10/20/2015	Side Road Grading
PM-110	10/15/2024	Line Types
PM-111	4/21/2020	Symbols and Legends
PM-115	10/15/2024	Grooving for Line Types
PM-116	4/16/2024	Grooving for Symbols and Legends
PM-120	10/15/2024	Stop Lines and Islands
PM-210	10/15/2024	Separation in Two-Lane Roadway
PM-560	10/15/2024	Divided Multi-Lane Roadway with no Turn Lanes
PM-760	10/15/2024	Divided Multi-Lane Roadway Median
PV-101	4/19/2022	Joints
PV-102	4/21/2020	PCC Curb Details
PV-104	4/21/2020	Ramped Median Nose
PV-301	4/21/2020	Superelevation Details Two Lane Roadway
PV-302	4/16/2024	Superelevation Details Four Lane Roadway Depressed Median
SW-401	4/20/2021	Circular Storm Sewer Manhole
SW-501	4/21/2020	Single Grate Intake
SW-502	4/21/2020	Circular Single Grate Intake
SW-507	4/21/2020	Single Open-Throat Intake, Small Box
SW-514	4/17/2018	Boxouts for Grate Intakes
SW-541	4/21/2020	Open-Throat Curb Intake under Pavement
SW-602	4/21/2020	Castings for Storm Sewer Manholes
TC-1	10/15/2019	Work Not Affecting Traffic (Two-Lane or Multi-Lane)
TC-61	10/15/2024	Two-Lane, Two-way Operation
TC-202	4/18/2023	Work Within 15 ft of Traveled Way
TC-252	4/21/2020	Routes Closed to Traffic
TC-402	4/18/2023	Work Within 15 ft of Traveled Way
TC-418	4/18/2023	Lane Closure on Divided Highway
TC-433	10/17/2017	Pavement Marking Operations

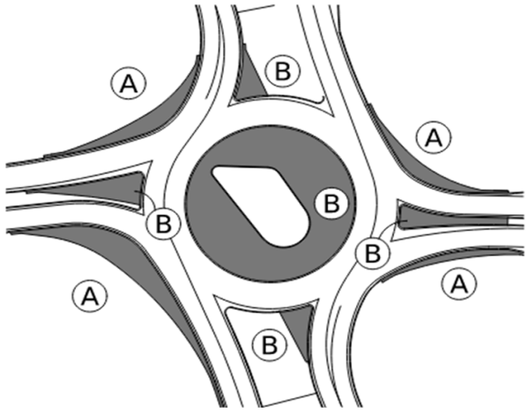
PCC PAVEMENT

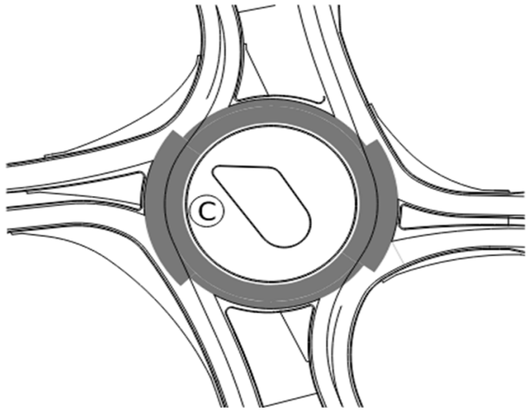


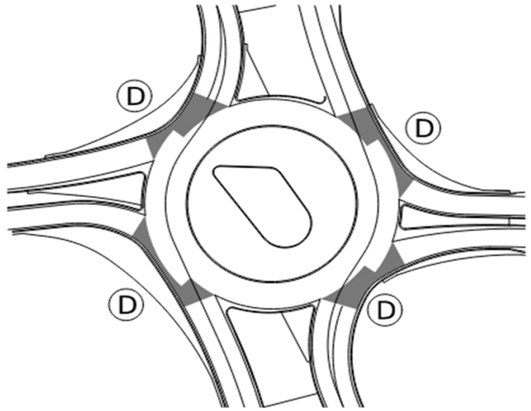
(1) Quantity includes Pavement Header.

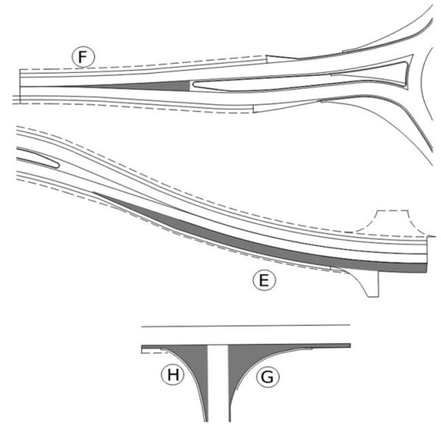
Location				Mainline			Area (1)								Total Area By Pavement Thickness			Special Backfill	Modified Subbase	Granular Subbase	Remarks
Road Identification	Direction of Travel	Station to Station		Width	Length	Area	A	B	C	D	E	F	G	H	SY						
				FT	FT	SY	SY	SY	SY	SY	SY	SY	SY	SY	9 IN	9.5 IN	13 IN	CY	CY	SY	
US18 (ML018EB)	EB	2629+18.82	2630+12.00	12.0	93.2	123.8										123.8			41.3		
US18 (ML018EB)	EB	2630+12.00	2631+52.25	12-16	140.3	218.2						123.0				341.2			113.7		F includes ramped median nose PV-104
US18 (ML018EB)	EB	2631+52.25	2633+14.44	16.0	162.2	290.5										290.5			259.1		
US18 (ML018EB)	EB	2633+14.44	2633+77.96	16-21	63.5	116.0										116.0			111.2		
US18 (ML018WB)	WB	3629+18.82	3630+65.87	12.0	147.0	195.7										195.7			65.2		
US18 (ML018WB)	WB	3630+65.87	3633+10.00	12-20	244.1	429.8										429.8			169.1		
US18 (ML018WB)	WB	3633+10.00	3633+85.58	20-20.6	75.6	166.1										166.1			62.1		
US71 (ML071NB)	NB	4051+47.09	4055+25.00	24.0	377.9	1007.8										1007.8			378.2		
US71 (ML071NB)	NB	4055+25.00	4056+20.93	24-29.9	95.9	284.8										284.8			289.0		
US71 (ML071NB)	NB	4057+92.45	4058+58.50	25.8-24	66.0	179.1										179.1			246.5		
US71 (ML071NB)	NB	4058+58.50	4063+50.05	24.0	491.5	1310.8										1310.8			460.1		
US71 (ML071SB)	SB	5053+84.60	5055+81.46	24.0	196.9	525.0										525.0			199.1		
US71 (ML071SB)	SB	5055+81.46	5056+16.24	24-25.6	34.8	94.9										94.9			35.0		
US71 (ML071SB)	SB	5057+98.21	5058+87.24	30.2-24	89.0	267.8										267.8			106.1		
US71 (ML071SB)	SB	5058+87.24	5063+11.17	24.0	423.9	1130.5										1130.5			414.0		
320th St (SR320EB)	EB	6157+18.94	6160+52.00	Vari.	333.1	552.1						128.5				680.6			395.8		F includes ramped median nose PV-104
320th St (SR320EB)	EB	6160+52.00	6164+35.43	12.0	383.4	514.0					476.4			98.0		1088.4			362.8		
320th St (SR320WB)	WB	7157+17.45	7157+73.55	21-16	56.1	103.5										103.5			38.9		
320th St (SR320WB)	WB	7157+73.55	7159+65.00	16.0	191.4	344.8										344.8			145.0		
320th St (SR320WB)	WB	7159+65.00	7161+07.78	16-12	142.8	222.8										222.8			74.3		
320th St (SR320WB)	WB	7161+07.78	7164+35.43	12.0	327.7	433.4										433.4			144.5		
RETA		10+46.84	11+13.95		67.1					95.0						95.0			37.9		
RETB		20+76.55	21+28.91		52.4					104.6						104.6			39.8		
RETC		30+52.72	31+21.11		68.4					81.8						81.8			33.7		
RETD		40+75.79	41+23.77		48.0					103.9						103.9			43.1		
RACIRCLE									1366.0							1366.0			501.8		
RETA							96.6										96.6		49.7		
RETB							133.7										133.7		64.0		
RETC							297.1										297.1		131.6		
RETD							55.8										55.8		33.9		
East Splitter island								83.9									83.9				
North Splitter island								57.5									57.5				
West Splitter island								115.8									115.8				
South Splitter island								66.3									66.3				
RACIRCLE								1142.7									1142.7		408.2		Truck apron includes 221.67' of standard curb

PCC PAVEMENT









(1) Quantity includes Pavement Header.

Location				Mainline			Area (1)								Total Area By Pavement Thickness			Special Backfill	Modified Subbase	Granular Subbase	Remarks
Road Identification	Direction of Travel	Station to Station		Width	Length	Area	A	B	C	D	E	F	G	H	SY						
				FT	FT	SY	SY	SY	SY	SY	SY	SY	SY	SY	9 IN	9.5 IN	13 IN	CY	CY	SY	
4th Ave W (SR4W)		19591+56.47	19610+00.92	24.0	1844.4	4918.6									4919			1639.5			
4th Ave W (Returns @ W43rd St		19609+35.79											81.0	71.0	152			50.7			
4th Ave W (Returns @37th St)		19591+98.28											24.5	64.3	89			29.6			
5th Ave W (SRW43)		9609+47.86	9614+81.27	24.0	533.4	1422.4									1422			474.1			
W 43rd St (SRW43)		9614+81.27	9626+42.00	24.0	1160.7	3095.3							271.8	207.0	3574			1191.4			
W37th St (SRW37)		20076+68.47	20081+54.86	24.0	486.4	1297.0							104.7	90.8	1493			497.5			
														TOTAL:	**11648**	**11088.6**	**2049.4**		**5454.6**		
Detour 9" PCC or 12" HMA																					
US71SB STG 1		56+15.16	56+79.86	15.0	64.7	89.3									89						
DETNB300		451+47.09	456+59.61	Vari.	512.5	1717.1									1717			660.9			
DETNB300		456+59.61	456+92.56	Vari.	32.9	171.6									172			57.2			
DETNB300		457+72.23	463+24.69	Vari.	552.5	1728.5									1728			650.7			
														TOTAL:	**3706**			**5251.6**			

PROPOSED POSTED SPEED LIMIT

Road Identification	Begin Station	End Station	Proposed Posted Speed Limit			Remarks
			35 or less	40 - 45	over 45	
US 18	629+18.82	634+26.20			X	
US 71 NB	51+47.09	63+27.23			X	
US 71 SB	53+84.60	62+86.06			X	
320th St	156+93.22	164+35.43			X	
W 43rd St & 5th Ave W	9609+35.79	9626+42.00	X			
4th Ave W	19591+56.48	19610+00.92	X			
W 37th St	20076+68.47	20081+54.86	X			

SHOULDERS

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

Calculations assume a HMA unit weight (lbs/cf) of 0, a Special Backfill unit weight (lbs/cf) of 140, and a Granular Shoulder unit weight (lbs/cf) of 140.

Location					Quantities																				
Road Identification	(1) Direction Of Traffic	Station to Station		Side	(P) Width	(P_{SG}) Width	(G) Width	(L) Length	Class 13 (4) Excavation	Hot Mix Asphalt		Binder	Paved Shoulder	_" Paved Shoulder at Guardrail	Reinforced Paved Shoulder	Special Backfill				Modified Subbase	Granular Shoulder		Earth Shoulder Construction Alternates			Remarks
																HMA Alternate		PCC Alternate					STA (3)	HMA	PCC	
					FT	FT (2)	FT	FT	CY (3)	TON	TON/STA	TONS	SY (3)	SY (5)	SY (3)	TON (3)	TON/STA	TON (3)	TON/STA	CY (3)	TON (3)	TON/STA		CY (6)	CY (6)	
Full depth 9.5"																										
US 18 (ML018EB)	EB	2628+11.46	2631+92.99	RT	5.0		5.0	381.5					212.0							120.1	216.581	56.767	3.8	39.6	84.4	
US 18 (ML018WB)	WB	3629+18.82	3632+11.22	LT	5.0		5.0	292.4					162.4							92.1	165.985	56.767	2.9	30.3	64.7	
US71 (ML071NB)	NB	4051+47.09	4054+78.54	Med	4.0		2.0	331.4					147.3							92.1	44.315	13.370	3.3	66.3	177.7	
US71 (ML071NB)	NB	4051+47.09	4054+38.54	Out	6.0		4.0	291.4					194.3							102.5	108.536	37.240	2.9	58.3	156.7	
US71 (ML071NB)	NB	4058+96.89	4063+50.05	Out	6.0		4.0	453.2					302.1							159.4	168.757	37.240	4.5	90.7	243.6	
US71 (ML071NB)	NB	4059+29.55	4063+50.05	Med	4.0		2.0	420.5					186.9							116.8	56.221	13.370	4.2	84.1	225.4	
US71 (SUR071SB)	SB	93+21.62	103+38.21	Out	6.0		4.0	1016.6					677.7							357.7	378.578	37.240	10.2	203.3	546.6	
US71 (ML071SB)	SB	5050+00.00	5054+65.60	Out	6.0		4.0	465.6					310.4							163.8	205.981	44.240	4.7		250.3	
US71 (ML071SB)	SB	5053+84.60	5054+86.91	Med	4.0		2.0	102.3					45.5							28.4	13.679	13.370	1.0	20.5	54.8	
US71 (ML071SB)	SB	5059+22.24	5068+10.53	Med	4.0		2.0	888.3					394.8							246.7	118.764	13.370	8.9	177.7	476.1	
US71 (ML071SB)	SB	5059+62.24	5065+01.81	Out	6.0		4.0	539.6					359.7							189.8	200.936	37.240	5.4	107.9	290.1	
320th St (SR320EB	EB	6158+49.24	6160+32.54	RT	5.0		5.0	183.3					101.8							57.7	103.931	56.700	1.8	19.0	40.5	
320th St (SR320EB	EB	6160+32.54	6160+41.58	RT	5 to 4		5.0	9.0					4.5							2.7	5.126	56.700	0.1	0.9	2.0	
320th St (SR320EB	EB	6160+41.58	6160+69.15	RT	4.0		5 to 2	27.6					12.3							7.7	10.472	37.982	0.3	2.9	6.1	
320th St (SR320EB	EB	6160+69.15	6163+25.00	RT	4.0		2.0	255.8					113.7							71.1	49.289	19.265	2.6	26.5	56.6	
320th St (SR320WB	WB	7158+78.36	7164+35.43	LT	5.0		5.0	557.1					309.5							175.4	315.859	56.700	5.6	57.8	123.2	
US71 (SUR071NB)	NB	84+64.63	95+90.88	Med	4.0		2.0	1126.3					500.6							312.8	150.580	13.370	11.3	225.3	603.7	
US71 (SUR071NB)	NB	68+54.34	71+69.48	Med	4.0		2.0	315.1					140.1							87.5	42.134	13.370	3.2	63.0	168.9	
US71 (SUR071SB)	SB	73+40.10	75+53.43	Med	4.0		2.0	213.3					94.8							59.3	28.522	13.370	2.1	42.7	114.3	
Full depth 9" Co																										
4th Ave W (SR4W)		19591+56.43	19608+67.25	LT	2.0		2.0	1710.8					380.2					166.577	18.402		214.354	12.529	17.1	793.9	52.5	
4th Ave W (SR4W)		19592+60.50	19610+00.92	RT	2.0		2.0	1740.4					386.8					169.459	18.402		218.062	12.529	17.4	807.6	53.4	
W 37th ST (SRW37)		20076+68.32	20076+98.32	RT	2.0		2.0	47.0					10.0					4.576	18.402		5.889	12.529	0.4	2.9	2.9	RET
W 37th ST (SRW37)		20076+98.32	20080+30.00	RT	2.0		2.0	331.7					73.7					32.295	18.402		41.557	12.529	2.1	20.3	20.3	
W 37th ST (SRW37)		20080+30.00	20080+70.00	RT	4.0		0.0	40.0					17.8								5.012	12.529	0.3	2.4	2.4	
W 37th ST (SRW37)		20080+70.00	20080+91.52	RT	2.0		2.0	21.5					4.8					2.095	18.402		2.696	12.529	0.2		1.3	
W 37th ST (SRW37)		20080+91.52	20081+54.86	RT	2.0		2.0	100.7					22.0					9.805	18.402		12.617	12.529	0.9	6.2	6.2	RET
W 37th ST (SRW37)		20076+68.70	20077+18.70	LT	2.0		2.0	78.7					17.1					7.663	18.402		9.861	12.529	0.7	4.8	4.8	RET
W 37th ST (SRW37)		20077+18.70	20080+25.00	LT	2.0		2.0	306.3					68.1					29.823	18.402		38.377	12.529	2.4	18.7	18.7	
W 37th ST (SRW37)		20080+25.00	20080+65.00	LT	4.0		0.0	40.0					17.8								5.012	12.529	0.3		2.4	
W 37th ST (SRW37)		20080+65.00	20080+94.03	LT	2.0		2.0	29.0					6.5					2.827	18.402		3.637	12.529	0.3		1.8	
W 37th ST (SRW37)		20080+94.03	20081+54.86	LT	2.0		2.0	94.9					20.7					9.240	18.402		11.890	12.529	0.9	5.8	5.8	RET
W43rd ST (SRW43)		9609+44.46	9610+04.39	LT	2.0		2.0	91.3					19.9					8.890	18.402		11.439	12.529	0.9	5.6	5.6	RET
W43rd ST (SRW43)		9610+00.97	9609+51.03	RT	2.0		2.0	91.0					17.6					8.860	18.402		11.402	12.529	0.7	5.6	5.6	RET
W43rd ST (SRW43)		9610+04.39	9614+81.27	LT	2.0		2.0	476.9					106.0					46.432	18.402		59.750	12.529	4.8	29.1	29.1	
W43rd ST (SRW43)		9610+00.97	9614+81.27	RT	2.0		2.0	480.3					106.7					46.765	18.402		60.178	12.529	4.8	29.4	29.4	
5th Ave W (SRW43)		9614+81.27	9617+83.95	LT	4.0		0.0	302.7					143.9					29.471	18.402		37.924	12.529	3.0	18.5	18.5	
5th Ave W (SRW43)		9614+81.27	9617+83.95	RT	4.0		0.0	302.7					125.1					29.471	18.402		37.924	12.529	3.0	18.5	18.5	
5th Ave W (SRW43)		9617+83.95	9625+02.46	LT	2.0		2.0	718.5					159.7					69.959	18.402		90.024	12.529	7.2	43.9	43.9	
5th Ave W (SRW43)		9617+83.95	9624+37.00	RT	2.0		2.0	653.1					145.1					63.585	18.402		81.823	12.529	6.5	39.9	39.9	
5th Ave W (SRW43)		9625+02.46	9626+42.00	LT	2.0		2.0	172.5					35.1					16.796	18.402		21.613	12.529	1.7	10.5	10.5	RET
5th Ave W (SRW43)		9625+60.46	9626+42.00	RT	2.0		2.0	81.5					24.9					7.939	18.402		10.216	12.529	0.8	5.0	5.0	RET
DETNB300		451+47.09	453+86.00	LT				238.9															2.4	7.9	7.9	
DETNB300		453+86.00	456+59.61	LT				273.6															2.7	9.1	9.1	
DETNB300		453+86.00	456+59.61	RT				273.6															2.7	9.1	9.1	
DETNB300		456+59.61	456+92.56					32.9																		
DETNB300		457+72.23	463+24.69	LT				552.5															5.5	18.4	18.4	
											TOTAL:	9.5"	4270.4					762.528		2443.7	3375.502		168.6	3229.8	4108.7	
												9"	1909.1													
																									878.9	

CURBS AND RAISED ISLANDS

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

Bid Item (1) Point No.	Station	Offset	Island Interior Area (1) SY	Curb and Gutter: Curb Type	Gutter Width FT	Length (1) LF	Remarks
SE Quadrant							
	4054+38.54	22 RT		Transition 0-6" Standard PCC	10-9.5	5.0	ML071NB,Typical 6147
	4054+43.51	21.5 RT		6" Standard PCC	9.5.5-2.5	70.0	ML071NB,Typical 6147
	4055+13.54	14.5 RT		6" Standard PCC	2.5	19.3	ML071NB
	40+00	0		6" Standard PCC	2.5	34.1	RETD
	40+34.10	0		Trans. 6"-0 Standard	2.5	5.0	RETD
	40+39.10	0		0	2.5	14.0	RETD, crosswalk
	40+53.14	0		Trans. 0-6" Standard	2.5	5.0	RETD
	40+58.23	0		6" Standard PCC	2.5	44.1	RETD
	41+02.35	0		Trans. 6" Standard-4" Sloped	2.5	5.0	RETD
	41+07.35	0		4" Sloped PCC	2.5	88.4	RETD
	6157+94.49	17.22 RT		4" Sloped PCC	2.5	14.9	SR320EB
	6158+10.07	17.76 RT		4" Sloped PCC	2.5-8.0	33.0	SR320EB, Typical 6147
	6158+44.05	24.59 RT		Trans 4" Sloped PCC-0	8.0-10	5.0	SR320EB, Typical 6147
NE Quadrant							
	7158+78.36	26 LT		Transition 0-6" Standard PCC	10-9.5	5.0	SR320WB, Typical 6147
	7158+73.78	25.5 LT		6" Standard PCC	9.5-3	65.9	SR320WB, Typical 6147
	7158+09.43	19 LT		Trans. 6" Standard-4" Sloped	3-2.5	5.0	SR320WB, Typical 6147
	7158+04.39	18.5 LT		4" Sloped PCC	2.5	30.8	SR320WB
	10+00.00	0		4" Sloped PCC	2.5	114.6	RETA
	11+14.60	0		Trans 4" Sloped- 6" Standard	2.5	5.0	RETA
	11+19.59	0		6" Standard PCC	2.5	59.4	RETA
	4058+58.50	14.5 RT		6" Standard PCC	2.5-9.5	32.8	ML071NB, Typical 6147
	4058+91.91	21 RT		Transition 6-0" Standard PCC	9.5-10	5.0	ML071NB, Typical 6147
NW Quadrant							
	5059+62.24	22 LT		Transition 0-6" Standard PCC	10-9.5	5.0	ML071SB, Typical 6147
	5059+57.26	21.5 LT		6" Standard PCC	9.5-2.5	70.4	ML071SB, Typical 6147
	20+00.00	0		6" Standard PCC	2.5	40.2	RETB
	20+40.23	0		Trans. 6" Standard-4" Sloped	2.5	5.0	RETB
	20+45.23	0		4" Sloped PCC	2.5	109.7	RETB
	21+54.91	0		Trans. 4"-0" sloped	2.5	5.0	RETB
	21+59.94	0		0	2.5	14.1	RETB, crosswalk
	21+74.06	0		Trans. 0"-4" sloped	2.5	5.0	RETB
	21+79.12	0		4" Sloped PCC	2.5	7.7	RETB
	3633+25.00	22.5 LT		4" Sloped PCC	2.5	20.6	ML071SB
	3633+03.50	22.28 LT		Trans 4" Sloped- 6" Standard	2.5	5.0	ML071SB
	3632+98.31	22.11 LT		6" Standard PCC	2.5	47.7	ML071SB
	3632+48.62	20.46 LT		6" Standard PCC	2.5-8.4	33.4	ML071SB, Typical 6147
	3632+15.82	25.9 LT		Transition 6-0" Standard PCC	8.4-10	5.0	ML071SB, Typical 6147
SW Quadrant							
	2631+92.99	26 RT		Transition 0-6" Standard PCC	10-8.9	5.0	ML018EB, Typical 6147
	2631+97.73	25.5 RT		6" Standard PCC	8.9-3	70.9	ML018EB, Typical 6147
	2632+66.83	18.96 RT		Trans. 6" Standard-4" Sloped	3-2.5	5.0	ML018EB, Typical 6147
	2632+71.70	18.5 RT		4" Sloped PCC	2.5	42.7	ML018EB
	30+00.00	0		4" Sloped PCC	2.5	14.9	RETC
	30+14.86	0		Trans. 4"-0" sloped	2.5	5.0	RETC
	30+19.89	0		0	2.5	13.8	RETC, crosswalk
	30+33.70	0		Trans. 0"-4" sloped	2.5	5.0	RETC
	30+38.79	0		4" Sloped PCC	2.5	124.0	RETC
	31+62.83	0		Trans. 4"-0" sloped	2.5	5.0	RETC
	31+67.84	0		0	2.5	14.0	RETC, crosswalk
	31+81.84	0		Trans. 0"-4" sloped	2.5	5.0	RETC
	31+86.84	0		4" Sloped PCC	2.5	1.7	RETC
	5055+47.62	14.5 LT		4" Sloped PCC	2.5	42.4	ML071SB
	5055+04.01	14.5 LT		Trans 4" Sloped- 6" Standard	2.5-3.6	5.0	ML071SB, Typical 6147
	5054+99.06	15.47 LT		6" Standard PCC	3.5-9	27.9	ML071SB, Typical 6147
	5054+70.72	21 LT		Transition 6-0" Standard PCC	9.0-10	5.0	ML071SB, Typical 6147
East Splitter Island							
	6157+31.06	8.43 LT		4" Sloped PCC	8.4	80.0	SR320EB
	6158+09.78	3.19 LT		Trans. 4" Sloped -6" Standard	3.2	5.0	SR320EB
	6158+14.74	3 LT		6" Standard PCC	3.0	36.1	SR320EB
	6158+50.58	2.5 LT		6" Standard PCC	2.5	131.1	SR320EB
	7159+81.06	5.6 RT		6" Standard PCC	5.6-2.5	30.8	SR320WB
	7159+50.00	2.5 RT		6" Standard PCC	2.5	140.0	SR320WB
	7158+09.40	2.5 RT		Trans. 6" Standard-4" Sloped	2.5	5.0	SR320WB
	7158+04.41	2.5 RT		4" Sloped PCC	2.5	80.6	SR320WB
	7157+24.40	2.5 RT		4" Sloped PCC	Vari.	4.0	SR320WB
	4057+09.56	18.5 RT		4" Sloped PCC	2.5	13.6	ML071NB
	4056+98.53	18.5 RT		4" Sloped PCC	Vari.	6.5	ML071NB
North Splitter Island							
	5059+22.24	18 RT		Transition 0-6" Standard PCC	10-9.5	5.0	ML071SB, Typical 6147
	5059+17.26	17.5 RT		6" Standard PCC	9.5-2.5	30.2	ML071SB, Typical 6147
	5058+87.24	14.5 RT		6" Standard PCC	2.5	39.5	ML071SB
	5058+50.74	14.5 RT		Trans. 6" Standard-4" Sloped	2.5	5.0	ML071SB

112-4
10-21-14

CURBS AND RAISED ISLANDS

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

Bid Item (1) Point No.	Station	Offset	Island Interior Area (1) SY	Curb and Gutter: Curb Type	Gutter Width FT	Length (1) LF	Remarks
	5058+46.28	14.5 RT		4" Sloped PCC	2.5	45.1	ML071SB
	5058+06.49	14.5 RT		4" Sloped PCC	Vari.	4.3	ML071SB
	1001+80.93	22.51 RT		4" Sloped PCC	2.5-3	22.8	RACIRCLE
	1001+63.86	23.07 RT		Trans. 4" Sloped -6" Standard	3-3.2	5.0	RACIRCLE
	1001+60.16	23.19 RT		6" Standard PCC	3.2-4	33.2	RACIRCLE
	1001+35.51	24 RT		6" Standard PCC	Vari.	9.0	RACIRCLE
	4058+11.11	14.5 LT		6" Standard PCC	2.5	103.5	ML071SB
	4059+12.45	14.5 LT		6" Standard PCC	2.5-5.0	13.0	ML071SB, Typical 6147
	4059+24.81	17 LT		Transition 6-0" Standard PCC	5.0-6.0	5.0	ML071SB, Typical 6147
West Splitter Island							
	2631+25.00	6.5 LT		6" Standard PCC	6.5-2.5	40.1	ML018EB
	2631+65.00	2.5 LT		6" Standard PCC	2.5	169.4	ML018EB
	2633+34.34	2.5 LT		Trans. 6"-0 Standard	2.5	5.0	ML018EB
	2633+39.26	2.5 LT		0	2.5	13.9	ML018EB, crosswalk
	2633+52.86	2.5 LT		Trans 0-4" Sloped	2.5	5.0	ML018EB
	2633+57.76	2.5 LT		4" Sloped PCC	2.5	13.5	ML018EB
	2633+71.01	2.5 LT		4" Sloped PCC	Vari.	3.9	ML018EB
	5057+00.14	18.5 LT		4" Sloped PCC	2.5	24.6	ML071SB
	5057+20.25	18.5 LT		4" Sloped PCC	Vari	7.1	ML071SB
	3633+71.78	6.27 RT		4" Sloped PCC	6.3-5.6	14.5	ML018WB
	3633+57.42	5.63 RT		Trans.4"-0 Sloped PCC	5.6-5.4	5.0	ML018WB
	3633+52.47	5.41 RT		0	5.4-4.9	14.0	ML018WB, crosswalk
	3633+38.61	4.86 RT		Trans.0-4" Sloped PCC	4.9-4.7	5.0	ML018WB
	3633+33.61	4.66 RT		4" Sloped PCC	4.7-3.2	48.7	ML018WB
	3632+85.34	3.16 RT		Trans. 4" Sloped -6" Standard	3.2-3.1	5.0	ML018WB
	3632+80.37	3.06 RT		6" Standard PCC	3.1-2.5	31.2	ML018WB
	3632+49.30	2.5 RT		6" Standard PCC	2.5	123.9	ML018WB
South Splitter Island							
	4054+78.54	18 LT		Transition 0-6" Standard PCC	6.0-5.5	5.0	ML071NB, Typical 6147
	4054+83.45	17.5 LT		6" Standard PCC	5.5-2.5	30.2	ML071NB, Typical 6147
	4055+13.54	14.5 LT		6" Standard PCC	2.5	58.3	ML071NB
	4055+68.87	14.5 LT		Trans. 6" Standard-4" Sloped	2.5	5.0	ML071NB
	4055+73.32	14.5 LT		4" Sloped PCC	2.5	0.8	ML071NB
	4055+74.12	14.5 LT		Trans. 4"-0" sloped	2.5	5.0	ML071NB
	4055+78.55	14.5 LT		0	2.5	14.0	ML071NB, crosswalk
	4055+90.93	14.5 LT		Trans. 0-4" sloped	2.5	5.0	ML071NB
	4055+95.36	14.5 LT		4" Sloped PCC	2.5	19.6	ML071NB
	4056+12.72	14.5 LT		4" Sloped PCC	Vari.	4.3	ML071NB
	1003+98.57	22.51 RT		4" Sloped PCC	2.5-3.1	23.1	RACIRCLE
	1003+81.24	23.1 RT		Trans. 4" Sloped -6" Standard	3.1-3.2	5.0	RACIRCLE
	1003+77.51	23.21 RT		6" Standard PCC	3.2-4.0	32.0	RACIRCLE
	1003+53.76	24 RT		6" Standard PCC	Vari.	9.0	RACIRCLE
	5055+97.58	14.5 RT		6" Standard PCC	2.5	24.6	ML071SB
	5055+73.17	14.5 RT		Trans. 6"-0 Standard	2.5	5.0	ML071SB
	5055+68.31	14.5 RT		0	2.5	14.0	ML071SB, crosswalk
	5055+54.69	14.5 RT		Trans. 0-6" Standard	2.5	5.0	ML071SB
	5055+49.83	14.5 RT		6" Standard PCC	2.5	47.1	ML071SB
	5055+04.01	14.5 RT		6" Standard PCC	2.5-5	13.1	ML071SB, Typical 6147
	5054+91.53	17 RT		6" Standard PCC	5.0-6.0	5.0	ML071SB, Typical 6147
	1000+00.00	3 LT		6" Standard PCC	3.0	427.3	RACIRCLE
				TOTAL:	**2.5' /Vari.**	**3145.6**	**inclides typical 6147**
					3'	427.3	

112-5
10-20-15

CONCRETE MEDIANS

* Bid item

Begin Station	End Station	Type	Area* SY	Modified Subbase CY	Special Backfill CY	Remarks
2631+25.00	2633+51.02	6 inch	266.1	70.2		ML018EB, West splitter island
2633+51.02	2633+72.80	6 inch	8.2	2.2		ML018EB, West splitter island
6158+09.78	6159+81.39	6 inch	167.1	44.1		SR320EB, East splitter island
5055+16.68	5055+56.64	6 inch	194.2	51.2		ML071SB, South splitter island
5055+66.36	5056+01.20	6 inch	126.2	33.3		ML071SB, South splitter island
4058+07.50	4058+92.13	6 inch	379.7	100.2		ML071NB, North splitter island
		TOTAL:	**1141.5**	**301.2**		

102-3
Modified

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	PR (1)(2)	SR (2)	Pipe Culvert (3)					Aprons	Driveway Surface Area		Driveway Surfacing Material	Remarks
Station	Side	A, B, C, D Safety Ramp, or Predetermined*	Case	1½" Dropped Curb	3" Dropped Curb				H	Size	Pipe Length	Lt.	Rt.		Special Backfill	PCC		
			1 or 2	LF	LF	FT	FT	FT	FT	IN	LF	LF	LF	No.	CY	SY	TON	
24+32.00	LT	B				24.0	(1)								170.5	801.3		2nd Ave, (2), (5)
9625+05.00	RT	B				36.0	(3)								246.0	645.5		5th Ave W, (2)
163+95.00	LT	D				35.0		35.0	1.0	29x18	58.0	1335.7	1335.7	2			40.644	320th Ave, (4)
20078+20.00	RT	B				35.5		15.0									8.043	W 37th St
20078+85.00	LT	B				43.5		15.0									9.536	W 37th St
20079+75.00	RT	B				35.5		15.0									8.042	W 37th St
19597+21.00	LT	B				33.2		30.0									15.741	4th Ave W
19598+17.00	RT	B				22.3										39.1		4th Ave W
19598+50.00	LT	B				31.2		30.0									11.806	4th Ave W
19598+67.00	RT	B				16.6		15.0									6.719	4th Ave W
19599+62.00	LT	B				24.6		15.0									8.960	4th Ave W
19600+07.00	RT	B				26.5		15/20									7.420	4th Ave W
19600+75.00	RT	B				31.8		15/25									5.669	4th Ave W
19601+67.00	LT	B				30.6		15.0									10.639	4th Ave W
19604+93.00	RT	B				34.0		15.0									5.772	4th Ave W
19605+11.00	LT	B				21.7		15.0									6.594	4th Ave W
19605+43.00	LT	B				23.7		15.0									7.060	4th Ave W
19607+12.00	RT	B				30.0		15.0									5.212	4th Ave W
								TOTAL			**58.0**			**2**	**416.5**	**1485.8**	**157.856**	

(1) refer to Sheet E.8
(2) refer to Paved Entrance typical on sheet B.8
(3) R=50', R=45'
(4) 24' low clearance pipe, 4" driveway surfacing thickness
(5) Utility inspection caps to be provided by the City of Spencer

DRAINAGE STRUCTURE BY ROAD CONTRACTOR

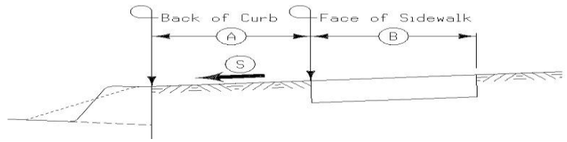
Length of unclassified pipe calculated is based on using Corrugated Metal Pipe.
* Not a bid item
(1) Diameter or equivalent diameter
(2) UNCL = Unclassified Pipe CMP = Corrugated Metal Pipe RCP = Reinforced Concrete Pipe LCP = Arch or Elliptical Low Clearance Pipe SARC = Steel Arch Pipe
(3) Backfill 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 Rt. / Lt.	Dike Location Station	Dike Top Elevation	Dike Type	Class 20	Flowable Mortar	Floodable* Backfill (A)	Porous* Backfill (B)	Flooded Backfill (3) (A+B)	Remarks
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.				CY	CY	CY	CY	CY	
	455+25.00	DR-651	12	UNCL	54	B	1.5	0.08	1	1											1335.98	1335.29			22.7	22.9								14.0					(1)
	455+28.00	DR-651	12	UNCL	54	B	1.5	0.08	1	1											1335.98	1335.29			22.7	22.9								14.0					(1)
	457+40.00	DR-651	24	UNCL	188	B	1.5	0.08	1	1		2									1334.32	1334.05	1334.28	1334.08										8.5					(2)
																																TOTAL		36.5				

(1) DET300 NB, no polyethylene pipe allowed
(2) DET300 NB two 37.5 deg elbows, pipe length 32+136+20

SIDEWALKS

See MI-220 and S Sheets



Intersection/Road	Quadrant/Side	Length	A	B	S	4" PCC Sidewalk	6" PCC Sidewalk	8" PCC Sidewalk	10" PCC Sidewalk	Detectable Warnings	Remarks
			FT	FT	%	SY	SY	SY	SY	SF	
US71SB/37th ST		10		10.00			11.1				
		5		10.00			6.5			20	
		5		10.00			6.5			20	
US71SB SW Quadrant		391.3	6.00	10.00	1.50%		440.1				
		6		10.00			6.7			20	detectable warnings within truck apron
		6		10.00			6.7				
Roundabout South Splitter island		42		10.00			47.4			40	East detectable warnings within truck apron
US71SB SE Quadrant		6					7.9			20	
		10	6.00	10.00	1.50%		11.1				
Roundabout West Splitter island		2.8		10.00			3.1			80	detectable warnings within truck apron
US71SB NW Quadrant		6	6.00	10.00	1.50%		6.8				
		282.2		10.00			314.9				
					TOTAL:		868.7			200	

EXISTING PAVEMENT

No.	Location					Year	Type	Project Number	Surface		Base		Subbase		Removal		Coarse Aggregate			Reinforcement	Remarks
	County	Route	Dir. of Travel	Begin Ref. Loc. Sign	End Ref. Loc. Sign				Type	Depth IN	Type	Depth IN	Type	Depth IN	Type	Depth IN	Source	Type	Durability Class	Type	
	Clay	US 18		75.55	77.66	2020	M	MP-000-3(735)0--76-00													HMA crack filling
						1996		NHS-18-2(71)--19-21	AAC	1.5	AAC	3			MIL	1.5	COTTONWOOD	QUARTZ			
						1982		F-18-2(39)--2G-21	BAC	1					SCR	1	SPENCER	GRAVEL			
						1962		FN-789*<2>	AAC	3							MILFORD	C.LST.			
						1931		P-259AB	PC7	7							WALLINGFORD	GRAVEL	2		
	Clay	S18/US71	NB	77.66	79.69	2021	M	MP-018-3(714)78--76-21													
						2004		NHSN-18-2(82)--2R-21	AAC	1.5	AAC	1.5			MIL	2	MOORE	C.LST			
						1982		FR-18-2(39)--2G-21	BAC	1.5					SCR	1	SPENCER	GRAVEL			
						1968		FN-18-2(11)--21-21	AAC	1	AAC	2.5					GILMORE- MILF	C.LST			3' Widen @ 254mm
						1954		F-218(1)	PCC	6							MILFORD	GRAVEL			
						1931		FA-218*<1>	PC7	7							WALLINGFORD	GRAVEL			
	Clay	US71	NB	207.92	209.28	2012		NHSX-071-8(55)--3H-21	PCC	6					SCR	2					UNBONDED PCC OVERLAY
						1992		F-71-8(19)--20-21	AAC	3							GILMORE CITY	C.LST			
						1984		FN-71-8(10)--21-21	AAC	2							GILMORE CITY	C.LST			
						1969		FN-71-8(2)--21-21	AAC	3							MILFORD	GRAVEL			
						1954		F-218(1)	PCC	6							MILFORD	GRAVEL	2		
	Clay	US71	SB	207.92	212.88	2012		NHSX-071-8(55)--3H-21	PCC	6					SCR	2					
						1992		F-71-8(19)--20-21	ACC	3	TBB	8					GILMORE CITY	C.LST			

REMOVAL OF PAVEMENT

Refer to Tabulation 102-5

* Not a Bid Item

Begin Station	End Station	Side	Pavement Type	Area SY	Saw Cut* LF	Remarks
Stage 1				31.0	118.0	Entrance of 2nd Ave, includes 58 ft of curb removal
Stage 2				10188.3	650.0	Refer to U Sheets for details
Stage 3				13815.5	2030.0	
Stage 4				3615.0		
Stage 5				4686.6	2409.0	
				32336.4	5207.0	Total

PAVEMENT MARKING SYMBOLS AND LEGENDS

Refer to PM-111

Road Identification	Location		STAW	RTAW	LTAW	CSRW	CSLW	CSTW	CRLW	FERW	LLRW	RLRW	RRCW	BLSW	WCSW	WPSB	YLDW	XNGW	STPW	AHDW	ONLW	BIKW	LANW	XITW	Groove Cuts	Remarks
	Station	Side																							EACH	
US 71 NB	4054+50.00	Med					X																			
	4054+50.00	Out				X																				
	4056+10.00	Med															X									
	4056+25.00	Out															X									
	4056+80.00	Med					X																			
	4056+90.00	Out	X																							
US 71 SB	5057+30.00	Out	X																							
	5057+43.00	Med					X																			
	5057+92.00	Out															X									
	5058+10.00	Med															X									
	5059+70.00	Med					X																			
	5059+70.00	Out				X																				
Roundabout	1001+28.00						X																			
	1003+46.00						X																			

PAVEMENT MARKING LINE TYPES

See PM-110

*BCY4 - Place on the same side of the roadway to match existing markings near the project.
**NPY4 - For estimating purposes only. No Passing Zone Lines will be located in the field.
***MNY4 - Factor of 1.00 as value includes number of 4-inch passes to cover median nose area.

ELW4: Edge Line Right (White) @ 0.67
ELW6: Edge Line Right (White) @ 1.00
BLW4: Broken Lane Line (White) @ 0.17
ELY4: Edge Line Left (Yellow) @ 0.67
CHW10: Channelizing Line (White) @ 1.67
CHW8: Channelizing Line (White) @ 1.33
CHY8: Channelizing Line (Yellow) @ 1.33
CHY10: Channelizing Line (Yellow) @ 1.67
BCY6: Broken Centerline (Yellow) @ 0.25
ELY6: Edge Line Left (Yellow) @ 1.00
SLW6: Solid Lane Line (White) @ 1.00

Location								Length by Line Type (Unfactored)														Remarks
Road ID	Station to Station		Dir. of Travel	Marking Type	Side			ELW4	ELW6	BLW4	ELY4	CHW10	CHW8	CHY8	CHY10	BCY6	ELY6	SLW6				
					L	C	R	STA	STA	STA	STA	STA	STA	STA	STA	STA	STA	STA	STA	STA	STA	
Stage 2A																						
US 71 NB																						
	56+04.35	60+60.52	NB	PAVEMENT MARKINGS REMOVED			X	4.56														
	56+04.35	99+22.75	NB	PAVEMENT MARKINGS REMOVED		X				43.18												
	84+64.30	90+22.75	NB	PAVEMENT MARKINGS REMOVED	X						5.58											
	68+44.23 R2	71+90.10 R2	NB	PAVEMENT MARKINGS REMOVED	X						3.46											
US 71 SB																						
	90+20.82	97+31.23	SB	PAVEMENT MARKINGS REMOVED	X						7.10											
	50+32.23 R2	56+65.63 R2	SB	PAVEMENT MARKINGS REMOVED	X						6.63											
	57+02.66 R2	59+50.00 R2	SB	PAVEMENT MARKINGS REMOVED	X						2.47											
	59+50.00	64+87.30	SB	PAVEMENT MARKINGS REMOVED		X							16.26									Lt Turn Gore
	87+22.95 R1	91+10.55 R2	SB	PAVEMENT MARKINGS REMOVED		X				57.26												
	93+41.61 R1	55+89.87 R2	SB	PAVEMENT MARKINGS REMOVED			X	15.87														
	57+06.61 R2	62+94.21 R2	SB	PAVEMENT MARKINGS REMOVED		X							12.75									Rt Turn Gore
US 71 NB																						
	56+04.35	63+84.35	NB	WET RETROREFLECTIVE REMOVABLE TAPE MARKINGS			X						7.80									
	63+84.35	84+64.30	NB	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED			X		20.80													
	84+64.30	87+90.87	NB	WET RETROREFLECTIVE REMOVABLE TAPE MARKINGS			X						3.27									Median Crossover
	87+90.87	93+37.58	NB	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED			X						5.47									
	93+37.58	95+06.47	NB	WET RETROREFLECTIVE REMOVABLE TAPE MARKINGS			X						1.69									
	84+64.30	86+19.30	NB	WET RETROREFLECTIVE REMOVABLE TAPE MARKINGS	X									1.55								Median Crossover
	86+19.30	91+71.35	NB	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED	X									5.52								
	91+71.35	95+06.47	NB	WET RETROREFLECTIVE REMOVABLE TAPE MARKINGS	X									3.35								
US 71 SB																						
	103+21 R1	56+65.63 R2	SB	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED			X		6.83													
	57+02.66 R2	58+80 R2	SB	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED			X		1.77													
	58+80 R2	68+95.53 R2	SB	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED			X					10.10										Median Crossover
	68+95.53 R2	71+98.61 R2	SB	WET RETROREFLECTIVE REMOVABLE TAPE MARKINGS			X						3.05									
	87+22.95	93+41.62	SB	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED		X									6.19							
	93+41.62	97+51.78	SB	WET RETROREFLECTIVE REMOVABLE TAPE MARKINGS		X								5.44								Median Gore
	95+05.72	97+49.82	SB	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED		X									2.44							
	98+14.78 R1	56+76.49 R2	SB	WET RETROREFLECTIVE REMOVABLE TAPE MARKINGS		X								7.72								Median Gore
	98+14.78 R1	56+76.49 R2	SB	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED		X									22.20							Median Gore
	54+33.69 R2	56+74.00 R2	SB	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED		X									2.50							
	57+24.08	62+86.06	SB	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED		X									15.16							Median Gore
	62+86.06	70+38.74	SB	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED		X								7.51								
	70+38.74	71+98.61	SB	WET RETROREFLECTIVE REMOVABLE TAPE MARKINGS		X								1.61								
	98+14.63	100+64.65	SB	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED		X												2.50				
	93+42.13	95+46.11	SB	WET RETROREFLECTIVE REMOVABLE TAPE MARKINGS	X								2.05									
	95+46.11	98+14.63	SB	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED	X								2.69									
	98+14.63 R1	55+87.29 R2	SB	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED	X					13.82												
	57+15.07	63+65.80	SB	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED		X						6.60										Rt Turn Gore
	62+86.06	65+23.75	SB	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED			X								2.38							
	65+23.75	75+80.20	SB	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED			X										10.57					
	75+80.20	83+60.54	SB	WET RETROREFLECTIVE REMOVABLE TAPE MARKINGS			X							7.80								
Stage 2B																						
W 43rd St/ 5th Ave W	9609+45.00	9626+42.00	BOTH	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED	X	X	X		35.27							16.94						
	9609+45.00	9626+42.00		GROOVES CUT FOR PAVEMENT MARKINGS	X	X	X		35.27													
Stage 2C																						
W 37th St	20078+77.00	20083+31.00	BOTH	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED	X	X	X		10.90							4.57						
	20078+77.00	20083+31.00		GROOVES CUT FOR PAVEMENT MARKINGS	X	X	X		10.90							4.57						
4th Ave W	19591+58.00	19597+95.00	BOTH	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED	X	X	X		11.72							6.37						
	19591+58.00	19597+95.00		GROOVES CUT FOR PAVEMENT MARKINGS	X	X	X		11.72							6.37						

PAVEMENT MARKING LINE TYPES

See PM-110

*BCY4 - Place on the same side of the roadway to match existing markings near the project.
**NPY4 - For estimating purposes only. No Passing Zone Lines will be located in the field.
***MNY4 - Factor of 1.00 as value includes number of 4-inch passes to cover median nose area.

ELW4: Edge Line Right (White) @ 0.67
ELW6: Edge Line Right (White) @ 1.00
BLW4: Broken Lane Line (White) @ 0.17
ELY4: Edge Line Left (Yellow) @ 0.67
CHW10: Channelizing Line (White) @ 1.67
CHW8: Channelizing Line (White) @ 1.33
CHY8: Channelizing Line (Yellow) @ 1.33
CHY10: Channelizing Line (Yellow) @ 1.67
BCY6: Broken Centerline (Yellow) @ 0.25
ELY6: Edge Line Left (Yellow) @ 1.00
SLW6: Solid Lane Line (White) @ 1.00

Location								Length by Line Type (Unfactored)														Remarks
Road ID	Station to Station		Dir. of Travel	Marking Type	Side			ELW4	ELW6	BLW4	ELY4	CHW10	CHW8	CHY8	CHY10	BCY6	ELY6	SLW6				
					L	C	R	STA	STA	STA	STA	STA	STA	STA	STA	STA	STA	STA	STA	STA	STA	
Stage 2				Factored Total: PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED				-	101.11	-	-	27.89	10.85	17.33	84.95	6.97	10.57	2.50	-	-	-	-	
				Factored Total: WET RETROREFLECTIVE REMOVABLE TAPE MARKINGS				-	-	-	-	-	23.75	36.54	-	-	-	-	-	-	-	-	
				Factored Total: PAVEMENT MARKINGS REMOVED				13.69	-	17.07	16.91	-	38.58	-	-	-	-	-	-	-	-	
				Factored Total: GROOVES CUT FOR PAVEMENT MARKINGS				-	57.89	-	-	-	-	-	-	2.74	-	-	-	-	-	
				Bid Quantity: 2527-9263209 - PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED							262.17											
				Bid Quantity: 2527-9263231 - WET RETROREFLECTIVE REMOVABLE TAPE MARKINGS							60.29											
				Bid Quantity: 2527-9263181 - PAVEMENT MARKINGS REMOVED							86.26											
				Bid Quantity: 2527-9270112 - GROOVES CUT FOR PAVEMENT MARKINGS							60.63											

108-22

PAVEMENT MARKING LINE TYPES

See PM-110

*BCY4 - Place on the same side of the roadway to match existing markings near the project.
**NPY4 - For estimating purposes only. No Passing Zone Lines will be located in the field.
***MNY4 - Factor of 1.00 as value includes number of 4-inch passes to cover median nose area.

DCY6: Double Centerline (Yellow) @ 2.00
ELW6: Edge Line Right (White) @ 1.00
ELY6: Edge Line Left (Yellow) @ 1.00
CHY10: Channelizing Line (Yellow) @ 1.67
CHW10: Channelizing Line (White) @ 1.67
BCY6: Broken Centerline (Yellow) @ 0.25
CHY8: Channelizing Line (Yellow) @ 1.33
CHW8: Channelizing Line (White) @ 1.33
SLW2: Stop Line (White) @ 4.00
SLW6: Solid Lane Line (White) @ 1.00
BLW6: Broken Lane Line (White) @ 0.25
MNY6: Median Nose (Yellow) @ 1.00

Location								Length by Line Type (Unfactored)														Remarks
Road ID	Station to Station		Dir. of Travel	Marking Type	Side			DCY6	ELW6	ELY6	CHY10	CHW10	BCY6	CHY8	CHW8	SLW2	SLW6	BLW6	MNY6			
					L	C	R	STA	STA	STA	STA	STA	STA	STA	STA	STA	STA	STA	STA	STA	STA	
Stage 3																						
US 71 NB	56+04.35	63+84.35	NB	REMOVAL OF REMOVABLE TAPE			X								7.80							
	63+84.35	79+82.23	NB	PAVEMENT MARKINGS REMOVED			X		15.98													
	82+08.45	84+64.30	NB	PAVEMENT MARKINGS REMOVED			X		2.56													
	90+22.79 R1	51+47.16 R2	NB	PAVEMENT MARKINGS REMOVED		X												14.44				
	90+22.79 R1	50+90.70 R2	NB	PAVEMENT MARKINGS REMOVED	X				13.88													
	84+64.30	87+54.66	NB	REMOVAL OF REMOVABLE TAPE			X								2.90							Median Crossover
	87+54.66	95+06.47	NB	PAVEMENT MARKINGS REMOVED			X					7.57										
	84+64.30	92+16.35	NB	PAVEMENT MARKINGS REMOVED	X						7.56											
	92+16.35	95+06.47	NB	REMOVAL OF REMOVABLE TAPE	X									2.90								
	63+27.23 R2	68+44.23 R2	NB	PAVEMENT MARKINGS REMOVED	X					8.09												
	67+85.00 R2	68+56.00 R2	NB	PAVEMENT MARKINGS REMOVED			X					0.72										Median Crossover
	68+56.00 R2	71+91.10 R2	NB	REMOVAL OF REMOVABLE TAPE			X								3.36							
	67+87.00 R2	70+30.30 R2	NB	PAVEMENT MARKINGS REMOVED	X						2.45											
	70+30.30 R2	71+91.10 R2	NB	REMOVAL OF REMOVABLE TAPE	X									1.60								
US 71 SB	84+64.24	90+20.82	SB	PAVEMENT MARKINGS REMOVED	X					5.57												
	95+05.72	97+31.23	SB	PAVEMENT MARKINGS REMOVED	X					2.26												
	103+21.00 R1	53+84.60 R2	SB	PAVEMENT MARKINGS REMOVED	X					4.02												
	84+64.24	87+22.95	SB	PAVEMENT MARKINGS REMOVED		X												2.59				
	87+22.95	93+41.61	SB	PAVEMENT MARKINGS REMOVED		X					6.19											
	93+41.61	97+51.78	SB	REMOVAL OF REMOVABLE TAPE		X								5.44								Median Gore
	95+05.72	97+49.82	SB	PAVEMENT MARKINGS REMOVED		X					2.44											Median Gore
	98+16.77 R1	53+12.62 R2	SB	PAVEMENT MARKINGS REMOVED		X					16.21											
	98+14.77 R1	53+12.62 R2	SB	REMOVAL OF REMOVABLE TAPE		X								7.30								
	62+86.00 R2	65+00.00 R2	SB	REMOVAL OF REMOVABLE TAPE		X								3.11								
	64+23.00 R2	65+23.75 R2	SB	PAVEMENT MARKINGS REMOVED		X					1.01											
	65+23.75 R2	75+80.60 R2	SB	PAVEMENT MARKINGS REMOVED		X				10.57												
	75+80.60 R2	83+60.54 R2	SB	REMOVAL OF REMOVABLE TAPE		X								7.80								
US 71 NB	56+04.35	63+84.35	NB	PAINTED PAVEMENT MARKINGS, HIGH-BUILD WATERBORNE			X		7.80													
	56+04.35	63+84.35	NB	WET RETROREFLECTIVE REMOVABLE TAPE MARKINGS	X									7.80								
	63+84.35	78+62.27	NB	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED	X					14.78												
	78+62.27	79+82.27	NB	WET RETROREFLECTIVE REMOVABLE TAPE MARKINGS	X					1.20												
	82+08.45	84+64.30	NB	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED	X					2.56												
	95+89.37 R1	51+47.16 R2	NB	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED	X	X		8.78	8.78													

PAVEMENT MARKING LINE TYPES

See PM-110

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**NPY4 - For estimating purposes only. No Passing Zone Lines will be located in the field.
***MNY4 - Factor of 1.00 as value includes number of 4-inch passes to cover median nose area.

DCY6: Double Centerline (Yellow) @ 2.00
BCY6: Broken Centerline (Yellow) @ 0.25
BLW6: Broken Lane Line (White) @ 0.25
ELW6: Edge Line Right (White) @ 1.00
CHY8: Channelizing Line (Yellow) @ 1.33
MNY6: Median Nose (Yellow) @ 1.00
ELY6: Edge Line Left (Yellow) @ 1.00
CHW8: Channelizing Line (White) @ 1.33
CHY10: Channelizing Line (Yellow) @ 1.67
SLW2: Stop Line (White) @ 4.00
CHW10: Channelizing Line (White) @ 1.67
SLW6: Solid Lane Line (White) @ 1.00

Location								Length by Line Type (Unfactored)														Remarks
Road ID	Station to Station		Dir. of Travel	Marking Type	Side			DCY6	ELW6	ELY6	CHY10	CHW10	BCY6	CHY8	CHW8	SLW2	SLW6	BLW6	MNY6				
					L	C	R	STA	STA	STA	STA	STA	STA	STA	STA	STA	STA	STA	STA	STA	STA	
	84+64.94	87+54.10	NB	WET RETROREFLECTIVE REMOVABLE TAPE MARKINGS			X							2.90								Median Crossover
	87+54.10	92+99.22	NB	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED			X				5.49											
	92+99.22	95+89.37	NB	WET RETROREFLECTIVE REMOVABLE TAPE MARKINGS			X							2.90								
	84+64.94	88+73.30	NB	WET RETROREFLECTIVE REMOVABLE TAPE MARKINGS	X										4.10							
	88+73.30	95+89.37	NB	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED	X							7.19										
US 71 NB DET	451+52.91	455+74.67	NB	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED			X		4.22													
	458+19.27	463+27.54	NB	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED			X		5.08													
	451+52.91	452+67.42	NB	WET RETROREFLECTIVE REMOVABLE TAPE MARKINGS		X		1.20														
	452+67.42	453+01.97	NB	WET RETROREFLECTIVE REMOVABLE TAPE MARKINGS		X								0.35								
	453+01.97	456+21.39	NB	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED		X					7.04											
	457+01.41	461+09.53	NB	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED		X					8.95											
	460+37.63	463+30.40	NB	WET RETROREFLECTIVE REMOVABLE TAPE MARKINGS		X								5.43								
	451+52.91	453+70.67	NB	WET RETROREFLECTIVE REMOVABLE TAPE MARKINGS	X				2.18													
	453+70.67	456+30.55	NB	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED	X				2.60													
	456+30.55	463+27.54	NB	WET RETROREFLECTIVE REMOVABLE TAPE MARKINGS	X				6.97													
US 71 NB	63+30.40 R2	68+44.23 R2	NB	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED	X	X		5.19	5.19													
	68+44.23 R2	71+91.08 R2	NB	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED		X				3.47												
	68+44.23 R2	70+79.50 R2	NB	WET RETROREFLECTIVE REMOVABLE TAPE MARKINGS			X							2.36								Median Crossover
	70+79.50 R2	74+27.41 R2	NB	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED			X				3.51											
	74+27.41 R2	75+52.14 R2	NB	WET RETROREFLECTIVE REMOVABLE TAPE MARKINGS			X							1.24								
	68+44.23 R2	69+83.27 R2	NB	WET RETROREFLECTIVE REMOVABLE TAPE MARKINGS	X										1.39							
	69+83.27 R2	73+48.40 R2	NB	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED	X							3.69										
	73+48.40 R2	75+52.14 R2	NB	WET RETROREFLECTIVE REMOVABLE TAPE MARKINGS	X										1.75							
US 71 SB	75+52.56 R2	85+02.73 R2	SB	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED		X			9.50													
	85+02.73 R2	92+82.73 R2	SB	WET RETROREFLECTIVE REMOVABLE TAPE MARKINGS		X									7.80							
320th St	6157+43.47	6163+70.35	EB	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED			X		1.25													
	6158+41.56	6163+70.35	EB	GROOVES CUT FOR PAVEMENT MARKINGS			X		5.47													
	6157+68.38	6158+12.77	EB	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED		X					0.46											
	6158+07.77	6158+12.77	EB	GROOVES CUT FOR PAVEMENT MARKINGS		X					0.05											
	6158+12.77	6159+81.00	EB	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED		X				1.68												
	6158+12.77	6159+81.00	EB	GROOVES CUT FOR PAVEMENT MARKINGS		X				1.68												
	6159+81.00	6161+74.59	BOTH	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED		X					4.32											
	6161+74.59	6164+35.43	BOTH	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED		X		2.61														
	6161+40.00	6163+25.00	EB	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED		X											1.85					
	6189+81.00	6163+25.00		GROOVES CUT FOR PAVEMENT MARKINGS		X		2.61			4.32						1.85					
	6159+81.00		BOTH	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED		X													0.26			
	7157+62.65	7157+95.70	WB	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED		X					0.65											
	7157+95.70	7159+81.15	WB	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED		X				1.85												
	7158+04.39	7159+81.15	WB	GROOVES CUT FOR PAVEMENT MARKINGS		X				1.77												
	7156+60.54	7164+45.43	WB	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED			X		7.10													
	7158+85.22	7164+45.43	WB	GROOVES CUT FOR PAVEMENT MARKINGS			X		5.60													
	7157+43.82		WB	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED												0.51						
4th Ave W	19597+94.63	19610+00.92	BOTH	PAINTED PAVEMENT MARKINGS, HIGH-BUILD WATERBORNE	X	X	X		22.94				12.06									
	19597+94.63	19610+00.92	BOTH	GROOVES CUT FOR PAVEMENT MARKINGS	X	X	X		22.94				12.06									
Stage 3				Factored Total: PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED				33.16	43.72	24.34	50.80	18.17	-	-	-	2.04	1.85	-	0.26	-	-	-	
				Factored Total: PAINTED PAVEMENT MARKINGS, HIGH-BUILD WATERBORNE				-	30.74	-	-	-	3.02	-	-	-	-	-	-	-	-	-	
				Factored Total: WET RETROREFLECTIVE REMOVABLE TAPE MARKINGS				2.40	9.15	1.20	-	-	-	30.56	20.00	-	-	-	-	-	-	-	
				Factored Total: PAVEMENT MARKINGS REMOVED				-	32.42	30.51	59.89	13.84	-	-	-	-	-	4.26	-	-	-	-	
				Factored Total: GROOVES CUT FOR PAVEMENT MARKINGS				5.22	34.01	3.45	7.30	-	3.02	-	-	-	1.85	-	-	-	-	-	
				Factored Total: REMOVAL OF REMOVABLE TAPE				-	-	-	-	-	-	37.44	18.70	-	-	-	-	-	-	-	
				Bid Quantity: 2527-9263209 - PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED							174.34											
				Bid Quantity: 2527-9263212 - PAINTED PAVEMENT MARKINGS, HIGH-BUILD WATERBORNE							33.76											
				Bid Quantity: 2527-9263231 - WET RETROREFLECTIVE REMOVABLE TAPE MARKINGS							63.32											
				Bid Quantity: 2527-9263181 - PAVEMENT MARKINGS REMOVED							140.92											
				Bid Quantity: 2527-9270112 - GROOVES CUT FOR PAVEMENT MARKINGS							54.84											
				NOT A BID ITEM: REMOVAL OF REMOVABLE TAPE							56.14											

PAVEMENT MARKING LINE TYPES

See PM-110

*BCY4 - Place on the same side of the roadway to match existing markings near the project.
**NPY4 - For estimating purposes only. No Passing Zone Lines will be located in the field.
***MNY4 - Factor of 1.00 as value includes number of 4-inch passes to cover median nose area.

ELY6: Edge Line Left (Yellow) @ 1.00
CHW8: Channelizing Line (White) @ 1.33
SLW2: Stop Line (White) @ 4.00
SLW6: Solid Lane Line (White) @ 1.00
CHY10: Channelizing Line (Yellow) @ 1.67
CBW6: Crosswalk Bar (White) @ 10.00
DCY6: Double Centerline (Yellow) @ 2.00
CHY8: Channelizing Line (Yellow) @ 1.33
CLW6: Crosswalk Line (White) @ 2.00
ELW6: Edge Line Right (White) @ 1.00
BLW6: Broken Lane Line (White) @ 0.25
MNY6: Median Nose (Yellow) @ 1.00
CHW10: Channelizing Line (White) @ 1.67
DLW6: Dotted Line (White) @ 0.33

Location								Length by Line Type (Unfactored)																
Road ID	Station to Station		Dir. of Travel	Marking Type	Side			ELY6	SLW6	DCY6	ELW6	CHW10	CHW8	CHY10	CHY8	BLW6	DLW6	SLW2	CBW6	CLW6	MNY6		Remarks
					L	C	R	STA	STA	STA	STA	STA	STA	STA	STA	STA	STA	STA	STA	STA	STA	STA	
Stage 4																								
US 71 NB	56+04.30	63+84.35	NB	REMOVAL OF REMOVABLE TAPE	X										7.80								
	63+84.35	78+62.27	NB	PAVEMENT MARKINGS REMOVED	X			14.80															
	78+62.27	79+82.28	NB	REMOVAL OF REMOVABLE TAPE	X										1.20								
	79+82.28	82+08.45	NB	PAVEMENT MARKINGS REMOVED	X						2.26												
US 71	84+64.94	87+54.10	NB	REMOVAL OF REMOVABLE TAPE			X								2.90								Median Crossover
Crossover	87+54.10	92+99.22	NB	PAVEMENT MARKINGS REMOVED			X							5.49									
	92+99.22	95+89.37	NB	REMOVAL OF REMOVABLE TAPE			X								2.90								
	84+64.94	88+73.30	NB	REMOVAL OF REMOVABLE TAPE	X								4.10										
	88+73.30	95+89.37	NB	PAVEMENT MARKINGS REMOVED	X							7.19											
US 71 NB	95+89.37 R1	51+47.09 R2	NB	PAVEMENT MARKINGS REMOVED	X	X				8.78	8.78												
US 71 NB	451+47.09	452+67.42	NB	REMOVAL OF REMOVABLE TAPE		X				1.20													
Detour	452+67.42	453+03.83	NB	REMOVAL OF REMOVABLE TAPE		X									0.36								
	451+52.91	453+76.88	NB	REMOVAL OF REMOVABLE TAPE	X						2.24												
	457+01.41	457+34.49	NB	REMOVAL OF REMOVABLE TAPE		X									0.64								
	456+30.55	458+38.51	NB	REMOVAL OF REMOVABLE TAPE	X						2.08												
	459+18.30	463+27.56	NB	REMOVAL OF REMOVABLE TAPE	X						4.11												
	456+90.03	457+72.23	NB	REMOVAL OF REMOVABLE TAPE		X			0.82														
	63+27.23	68+44.23	NB	PAVEMENT MARKINGS REMOVED		X				5.17													
	68+44.23	71+91.08	NB	PAVEMENT MARKINGS REMOVED		X		3.47															
US 71	68+44.23	70+72.92	NB	REMOVAL OF REMOVABLE TAPE			X								2.40								
Crossover	74+27.69	75+29.33	NB	PAVEMENT MARKINGS REMOVED			X							1.24									
	68+44.23	69+83.27	NB	REMOVAL OF REMOVABLE TAPE	X								1.39										
	73+48.92	73+75.42	NB	PAVEMENT MARKINGS REMOVED	X							0.27											
	73+75.42	75+51.70	NB	REMOVAL OF REMOVABLE TAPE	X								1.75										
320th St	7157+43.82		WB	PAVEMENT MARKINGS REMOVED														0.21					
US 75 SB	75+52.56	85+02.58	SB	PAVEMENT MARKINGS REMOVED			X				9.50												
	85+02.58	92+82.70	SB	REMOVAL OF REMOVABLE TAPE			X						7.80										
US 75 NB	98+83.33 R1	53+68.99 R2	NB	WET RETROREFLECTIVE REMOVABLE TAPE MARKINGS			X						7.80										
	84+64.30 R1	51+47.09 R2	NB	PAINTED PAVEMENT MARKINGS, HIGH-BUILD WATERBORNE	X			20.03															
	84+64.30 R1	51+47.09 R2	NB	GROOVES CUT FOR PAVEMENT MARKINGS	X			20.03															
	63+27.23 R2	71+91.08 R2	NB	PAINTED PAVEMENT MARKINGS, HIGH-BUILD WATERBORNE		X										8.64							
	63+27.23 R2	71+91.08 R2	NB	GROOVES CUT FOR PAVEMENT MARKINGS		X										8.64							
US 75 NB	4053+69.88	4055+32.87	NB	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED		X										1.63							
	4055+32.87	4055+79.74	NB	PAINTED PAVEMENT MARKINGS, HIGH-BUILD WATERBORNE		X						0.93											
	4055+32.87	4055+79.74	NB	PERMANENT TAPE MARKINGS, PREFORMED THERMOPLASTIC MARKING MATERIAL		X						0.10											
	4055+89.74	4056+69.88	NB	PAINTED PAVEMENT MARKINGS, HIGH-BUILD WATERBORNE		X						0.90											
	4055+89.74	4056+69.88	NB	PERMANENT TAPE MARKINGS, PREFORMED THERMOPLASTIC MARKING MATERIAL		X						0.39											
	4053+69.88	4056+69.88	NB	GROOVES CUT FOR PAVEMENT MARKINGS		X						2.32											
	4053+69.88	4055+79.74	NB	PAINTED PAVEMENT MARKINGS, HIGH-BUILD WATERBORNE	X			4.35															
	4055+89.24	4056+12.72	NB	PAINTED PAVEMENT MARKINGS, HIGH-BUILD WATERBORNE	X			0.26															
	4056+12.72	4056+20.93	NB	PAINTED PAVEMENT MARKINGS, HIGH-BUILD WATERBORNE	X						0.08												
	4053+69.88	4056+20.93	NB	GROOVES CUT FOR PAVEMENT MARKINGS	X			4.61			0.08												
	4056+74.17	4057+26.54	NB	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED		X			0.52														
	4057+26.54	4058+28.60	NB	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED		X											1.02						
	4058+28.60	4063+50.00	NB	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED		X										5.21							
	4063+50.00	4066+74.00		PAINTED PAVEMENT MARKINGS, HIGH-BUILD WATERBORNE		X										3.24							
	4056+74.17	4066+74.08	NB	GROOVES CUT FOR PAVEMENT MARKINGS		X			0.52							8.45	1.02						
	4057+92.45	4058+11.16	NB	PAINTED PAVEMENT MARKINGS, HIGH-BUILD WATERBORNE	X						0.19												
	4058+11.16	4063+50.05	NB	PAINTED PAVEMENT MARKINGS, HIGH-BUILD WATERBORNE	X			5.39															
	4057+92.45	4063+50.05	NB	GROOVES CUT FOR PAVEMENT MARKINGS	X			5.39			0.19												
	4055+84.74		NB	PERMANENT TAPE MARKINGS, PREFORMED THERMOPLASTIC MARKING MATERIAL						0.32	0.60								0.32	0.30			Crosswalk
			NB	GROOVES CUT FOR PAVEMENT MARKINGS						0.32	0.60								0.32	0.30			
	4056+84.44	4057+13.35	NB	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED			X				0.29												
	4057+13.35	4057+69.67	NB	PAINTED PAVEMENT MARKINGS, HIGH-BUILD WATERBORNE			X										0.56						
	4056+84.44	4057+69.67	NB	GROOVES CUT FOR PAVEMENT MARKINGS			X				0.29						0.56						
US 71 SB	84+64.23	97+31.59	SB	PAINTED PAVEMENT MARKINGS, HIGH-BUILD WATERBORNE	X			12.67															

PAVEMENT MARKING LINE TYPES

See PM-110

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***MNY4 - Factor of 1.00 as value includes number of 4-inch passes to cover median nose area.

ELY6: Edge Line Left (Yellow) @ 1.00
CHW8: Channelizing Line (White) @ 1.33
SLW2: Stop Line (White) @ 4.00
SLW6: Solid Lane Line (White) @ 1.00
CHY10: Channelizing Line (Yellow) @ 1.67
CBW6: Crosswalk Bar (White) @ 10.00
DCY6: Double Centerline (Yellow) @ 2.00
CHY8: Channelizing Line (Yellow) @ 1.33
CLW6: Crosswalk Line (White) @ 2.00
ELW6: Edge Line Right (White) @ 1.00
BLW6: Broken Lane Line (White) @ 0.25
MNY6: Median Nose (Yellow) @ 1.00
CHW10: Channelizing Line (White) @ 1.67
DLW6: Dotted Line (White) @ 0.33

Location								Length by Line Type (Unfactored)														
Road ID	Station to Station		Dir. of Travel	Marking Type	Side			ELY6	SLW6	DCY6	ELW6	CHW10	CHW8	CHY10	CHY8	BLW6	DLW6	SLW2	CBW6	CLW6	MNY6		Remarks
					L	C	R	STA	STA	STA	STA	STA	STA	STA	STA	STA	STA	STA	STA	STA	STA	STA	
	50+32.23 R2	53+84.60 R2	SB	PAINTED PAVEMENT MARKINGS, HIGH-BUILD WATERBORNE	X			3.52															
	84+64.23 R1	53+84.60 R2	SB	PAINTED PAVEMENT MARKINGS, HIGH-BUILD WATERBORNE		X	X				24.56					24.56							
	84+64.23	53+84.60	SB	GROOVES CUT FOR PAVEMENT MARKINGS				16.19			24.56					24.56							
US 71 SB	5053+84.60	5055+56.65	SB	PAINTED PAVEMENT MARKINGS, HIGH-BUILD WATERBORNE	X	X	X	1.42			1.42					1.42							
	5053+84.60	5055+56.65	SB	GROOVES CUT FOR PAVEMENT MARKINGS	X	X	X	1.42			1.42					1.42							
	5055+61.65		SB	PERMANENT TAPE MARKINGS, PREFORMED THERMOPLASTIC MARKING MATERIAL															0.27	0.23			Crosswalk
	5055+61.65		SB	GROOVES CUT FOR PAVEMENT MARKINGS															0.27	0.23			
	5055+66.65	5055+97.58	SB	PAINTED PAVEMENT MARKINGS, HIGH-BUILD WATERBORNE	X			0.31															
	5055+97.58	5056+16.24	SB	PAINTED PAVEMENT MARKINGS, HIGH-BUILD WATERBORNE	X						0.19												
	5055+97.58	5056+16.24	SB	GROOVES CUT FOR PAVEMENT MARKINGS	X			0.31			0.19												
	5055+66.65	5055+81.46	SB	PAINTED PAVEMENT MARKINGS, HIGH-BUILD WATERBORNE		X										0.15							
	5055+81.46	5056+83.16	SB	PAINTED PAVEMENT MARKINGS, HIGH-BUILD WATERBORNE		X											1.02						
	5056+83.16	5057+48.82	SB	PAINTED PAVEMENT MARKINGS, HIGH-BUILD WATERBORNE		X			0.66														
	5055+81.46	5057+48.82	SB	GROOVES CUT FOR PAVEMENT MARKINGS		X			0.66							0.15	1.02						
	5055+66.65	5056+40.36	SB	PAINTED PAVEMENT MARKINGS, HIGH-BUILD WATERBORNE			X				0.74												
	5056+40.36	5056+94.35	SB	PAINTED PAVEMENT MARKINGS, HIGH-BUILD WATERBORNE			X										0.59						
	5056+94.35	5057+33.31	SB	PAINTED PAVEMENT MARKINGS, HIGH-BUILD WATERBORNE			X				0.39												
	5055+66.65	5057+33.31	SB	GROOVES CUT FOR PAVEMENT MARKINGS			X				1.13						0.59						
	5057+98.27	5058+07.02	SB	PAINTED PAVEMENT MARKINGS, HIGH-BUILD WATERBORNE	X						0.09												
	5058+07.02	5063+11.17	SB	PAINTED PAVEMENT MARKINGS, HIGH-BUILD WATERBORNE	X			5.04															
	5063+11.17	5068+06.53	SB	PAINTED PAVEMENT MARKINGS, HIGH-BUILD WATERBORNE	X			4.95															
	5057+98.27	5068+06.53	SB	GROOVES CUT FOR PAVEMENT MARKINGS				9.99			0.09												
	5057+78.31	5058+94.54	SB	PAINTED PAVEMENT MARKINGS, HIGH-BUILD WATERBORNE		X						2.06											
	5057+78.31	5058+94.54	SB	PERMANENT TAPE MARKINGS, PREFORMED THERMOPLASTIC MARKING MATERIAL		X						0.59											
	5058+94.54	5063+11.17	SB	PAINTED PAVEMENT MARKINGS, HIGH-BUILD WATERBORNE		X										4.17							
	5063+11.17	5093+07.68	SB	PAINTED PAVEMENT MARKINGS, HIGH-BUILD WATERBORNE		X										39.97							
	5057+78.31	5093+07.68	SB	GROOVES CUT FOR PAVEMENT MARKINGS		X						2.65				34.14							
	5057+47.39	5063+11.17	SB	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED			X				5.64												
	5063+11.17	5065+00.00	SB	PAINTED PAVEMENT MARKINGS, HIGH-BUILD WATERBORNE			X				1.89												
	5057+47.39	5065+00.00	SB	GROOVES CUT FOR PAVEMENT MARKINGS			X				7.53												
Roundabout	1001+22.18	1001+88.07	BOTH	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED			X				0.66												
	1001+88.07	1002+31.65	BOTH	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED			X										0.66						
	1003+40.46	1004+05.87	BOTH	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED			X				0.65												
	1004+05.87	1000+20.00	BOTH	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED			X										0.63						
	1001+22.18	1000+20.00	BOTH	GROOVES CUT FOR PAVEMENT MARKINGS			X				1.31						1.29						
US 18 EB	2629+18.82	2633+41.09	EB	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED			X				4.22												
	2629+18.82	2633+41.09	EB	GROOVES CUT FOR PAVEMENT MARKINGS			X				4.22												
	2633+51.74	2634+33.75	EB	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED			X				0.68												
	2633+51.74	2634+33.75	EB	GROOVES CUT FOR PAVEMENT MARKINGS			X				0.68												
	2629+18.82	2631+25.00	BOTH	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED		X								4.13									
	2629+18.82	2631+25.00	BOTH	PERMANENT TAPE MARKINGS, PREFORMED THERMOPLASTIC MARKING MATERIAL		X								0.60									
	2629+18.82	2631+25.00	BOTH	GROOVES CUT FOR PAVEMENT MARKINGS		X								4.73									
	2631+25.00		BOTH	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED		X															0.22		
	2631+25.00	2633+41.09	EB	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED		X		2.16															
	2631+25.00	2633+41.09	EB	PAVEMENT MARKINGS REMOVED		X		2.16															
	2633+51.74	2633+71.03	EB	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED		X		0.20															
	2633+71.03	2633+77.98	EB	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED		X					0.07												
	2633+51.74	2633+77.98	EB	GROOVES CUT FOR PAVEMENT MARKINGS		X		0.20			0.07												
US 18 WB	3629+18.82	3633+40.46	WB	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED			X							4.14									
	3629+18.82	3633+40.46	WB	GROOVES CUT FOR PAVEMENT MARKINGS			X							4.14									
	3633+50.86	3633+90.21	WB	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED			X							0.39									
	3633+50.86	3633+90.21	WB	GROOVES CUT FOR PAVEMENT MARKINGS			X							0.39									
	3631+25.43	3633+40.46	WB	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED		X								2.15									
	3632+49.30	3633+40.46	WB	PERMANENT TAPE MARKINGS, PREFORMED THERMOPLASTIC MARKING MATERIAL		X								0.15									
	3631+25.43	3633+40.46	WB	GROOVES CUT FOR PAVEMENT MARKINGS		X								2.30									
	3633+50.86	3633+71.23	WB	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED		X								0.20									
	3633+50.86	3633+71.23	WB	PERMANENT TAPE MARKINGS, PREFORMED THERMOPLASTIC MARKING MATERIAL		X								0.13									
	3633+71.23	3633+85.58	WB	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED		X						0.14											
	3633+50.86	3633+85.58	WB	GROOVES CUT FOR PAVEMENT MARKINGS		X						0.14		0.33									
	3633+45.82		WB	PERMANENT TAPE MARKINGS, PREFORMED THERMOPLASTIC MARKING MATERIAL															0.26	0.15			Crosswalk
	2633+46.09		EB	PERMANENT TAPE MARKINGS, PREFORMED THERMOPLASTIC MARKING MATERIAL															0.20	0.30			
				GROOVES CUT FOR PAVEMENT MARKINGS															0.46	0.45			

PAVEMENT MARKING LINE TYPES

See PM-110

*BCY4 - Place on the same side of the roadway to match existing markings near the project.
**NPY4 - For estimating purposes only. No Passing Zone Lines will be located in the field.
***MNY4 - Factor of 1.00 as value includes number of 4-inch passes to cover median nose area.

ELY6: Edge Line Left (Yellow) @ 1.00
CHW8: Channelizing Line (White) @ 1.33
SLW2: Stop Line (White) @ 4.00
SLW6: Solid Lane Line (White) @ 1.00
CHY10: Channelizing Line (Yellow) @ 1.67
CBW6: Crosswalk Bar (White) @ 10.00
DCY6: Double Centerline (Yellow) @ 2.00
CHY8: Channelizing Line (Yellow) @ 1.33
CLW6: Crosswalk Line (White) @ 2.00
ELW6: Edge Line Right (White) @ 1.00
BLW6: Broken Lane Line (White) @ 0.25
MNY6: Median Nose (Yellow) @ 1.00
CHW10: Channelizing Line (White) @ 1.67
DLW6: Dotted Line (White) @ 0.33

Location							Length by Line Type (Unfactored)													
Road ID	Station to Station	Dir. of Travel	Marking Type	Side			ELY6	SLW6	DCY6	ELW6	CHW10	CHW8	CHY10	CHY8	BLW6	DLW6	SLW2	CBW6	CLW6	MNY6		Remarks
				L	C	R	STA	STA	STA	STA	STA	STA	STA	STA	STA	STA	STA	STA	STA	STA	STA	
Stage 4			Factored Total: PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED				2.36	0.52	-	12.21	0.23	-	18.39	-	1.71	0.76	-	-	-	0.22	-	
			Factored Total: PAINTED PAVEMENT MARKINGS, HIGH-BUILD WATERBORNE				57.94	0.66	-	29.55	6.50	-	-	-	20.54	0.72	-	-	-	-	-	
			Factored Total: PERMANENT TAPE MARKINGS, PREFORMED THERMOPLASTIC MARKING MATERIAL				-	-	0.64	0.60	1.80	-	1.47	-	-	-	-	10.50	1.96	-	-	
			Factored Total: WET RETROREFLECTIVE REMOVABLE TAPE MARKINGS				-	-	-	-	-	10.37	-	-	-	-	-	-	-	-	-	
			Factored Total: PAVEMENT MARKINGS REMOVED				20.43	-	27.90	20.54	12.46	-	11.24	-	-	-	0.84	-	-	-	-	
			Factored Total: GROOVES CUT FOR PAVEMENT MARKINGS				58.14	1.18	0.64	42.36	8.53	-	19.86	-	19.34	1.48	-	10.50	1.96	-	-	
			Factored Total: REMOVAL OF REMOVABLE TAPE				-	0.82	2.40	8.43	-	20.00	-	24.21	-	-	-	-	-	-	-	
			Bid Quantity: 2527-9263209 - PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED										36.40									
			Bid Quantity: 2527-9263212 - PAINTED PAVEMENT MARKINGS, HIGH-BUILD WATERBORNE										115.90									
			Bid Quantity: 2527-9263225 - PERMANENT TAPE MARKINGS, PREFORMED THERMOPLASTIC MARKING MATERIAL										16.97									
			Bid Quantity: 2527-9263231 - WET RETROREFLECTIVE REMOVABLE TAPE MARKINGS										10.37									
			Bid Quantity: 2527-9263181 - PAVEMENT MARKINGS REMOVED										93.41									
			Bid Quantity: 2527-9270112 - GROOVES CUT FOR PAVEMENT MARKINGS										163.99									
			NOT A BID ITEM: REMOVAL OF REMOVABLE TAPE							55.86												

PAVEMENT MARKING LINE TYPES

See PM-110

*BCY4 - Place on the same side of the roadway to match existing markings near the project.
**NPY4 - For estimating purposes only. No Passing Zone Lines will be located in the field.
***MNY4 - Factor of 1.00 as value includes number of 4-inch passes to cover median nose area.

ELW6: Edge Line Right (White) @ 1.00 | ELY6: Edge Line Left (Yellow) @ 1.00 | CHW8: Channelizing Line (White) @ 1.33 | CHY10: Channelizing Line (Yellow) @ 1.67 | CHW10: Channelizing Line (White) @ 1.67
DLW6: Dotted Line (White) @ 0.33 | BLW6: Broken Lane Line (White) @ 0.25

Location					Side			Length by Line Type (Unfactored)														Remarks
Road ID	Station to Station		Dir. of Travel	Marking Type	L	C	R	ELW6	ELY6	CHW8	CHY10	CHW10	DLW6	BLW6								
								STA	STA	STA	STA	STA	STA	STA	STA	STA	STA	STA	STA	STA	STA	
Stage 5																						
US 71 NB	98+83.33 R1	53+68.99 R2	NB	REMOVAL OF REMOVABLE TAPE			X			7.80												
	4051+47.09	4055+78.84	NB	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED			X	4.32														
	4051+47.09	4055+78.84	NB	GROOVES CUT FOR PAVEMENT MARKINGS			X	4.32														
	4055+90.65	4056+57.59	NB	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED			X	0.59														
	4055+90.65	4056+57.59	NB	GROOVES CUT FOR PAVEMENT MARKINGS			X	0.59														
	4057+38.64	4063+05.46	NB	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED			X	5.67														
	4057+38.64	4063+05.46	NB	GROOVES CUT FOR PAVEMENT MARKINGS			X	5.67														
	98+83.33 R1	51+47.09 R2	NB	PAINTED PAVEMENT MARKINGS, HIGH-BUILD WATERBORNE		X								5.84								
	98+83.33 R1	51+47.09 R2	NB	GROOVES CUT FOR PAVEMENT MARKINGS		X								5.84								
	4051+47.09	4053+69.91	NB	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED		X								2.23								
	4051+47.09	4053+69.91	NB	GROOVES CUT FOR PAVEMENT MARKINGS		X								2.23								
320th St EB	6157+01.88	6158+41.56	EB	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED			X	1.35														
	6157+01.88	6158+41.56	EB	GROOVES CUT FOR PAVEMENT MARKINGS			X	1.35														
	6157+14.98	6157+34.41	EB	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED			X						0.19									
	6157+14.98	6157+34.41	EB	GROOVES CUT FOR PAVEMENT MARKINGS			X						0.19									
	6157+19.09	6157+30.24	EB	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED		X						0.11										
	6157+30.24	6158+09.77	EB	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED		X					0.80											
	6157+30.24	6158+09.77	EB	PERMANENT TAPE MARKINGS, PREFORMED THERMOPLASTIC MARKING MATERIAL		X					0.34											
	6157+19.09	6158+09.77	EB	GROOVES CUT FOR PAVEMENT MARKINGS		X					1.14	0.11										
320th St WB	7162+14.64	7157+85.36	WB	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED			X	0.74														
	7162+14.64	7157+85.36	WB	GROOVES CUT FOR PAVEMENT MARKINGS			X	0.74														
	7157+17.45	7157+23.56	WB	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED		X		0.07														
	7157+24.40	7157+95.70	WB	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED		X			0.71													
	7162+04.30	7157+23.56	WB	GROOVES CUT FOR PAVEMENT MARKINGS		X		0.07	0.71													
Stage 5				Factored Total: PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED				12.74	0.71	-	1.34	0.18	0.06	0.56	-	-	-	-	-	-		
				Factored Total: PAINTED PAVEMENT MARKINGS, HIGH-BUILD WATERBORNE				-	-	-	-	-	-	1.46	-	-	-	-	-	-		
				Factored Total: PERMANENT TAPE MARKINGS, PREFORMED THERMOPLASTIC MARKING MATERIAL				-	-	-	0.57	-	-	-	-	-	-	-	-	-		
				Factored Total: GROOVES CUT FOR PAVEMENT MARKINGS				12.74	0.71	-	1.90	0.18	0.06	2.02	-	-	-	-	-	-		
				Factored Total: REMOVAL OF REMOVABLE TAPE				-	-	10.37	-	-	-	-	-	-	-	-	-	-		
				Bid Quantity: 2527-9263209 - PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED										15.59								
				Bid Quantity: 2527-9263212 - PAINTED PAVEMENT MARKINGS, HIGH-BUILD WATERBORNE										1.46								
				Bid Quantity: 2527-9263225 - PERMANENT TAPE MARKINGS, PREFORMED THERMOPLASTIC MARKING MATERIAL										0.57								
				Bid Quantity: 2527-9270112 - GROOVES CUT FOR PAVEMENT MARKINGS										17.62								
				NOT A BID ITEM: REMOVAL OF REMOVABLE TAPE										10.37								

108-13A
08-01-08

SAFETY CLOSURES

Refer to Section 2518 of the Standard Specifications

Station	Closure Type		Remarks
	Road Qty.	Hazard Qty.	
Stage 1			
9610+00.00	1		W 43rd St
9626+00.00	1		5th Ave W
24+30.00	1		Entrance (SR2)
Stage 2A			
165+50.00	1		320th St (SUR320)
25+00.00	1		2nd Ave E (SR2)
57+00.00	2		US 71 Median Crossing
68+00.00	1		US 71 NB (SUR071NB)
Stage 2B			
20081+00.00	1		W 37th St (SR37)
19591+00.00	1		4th Ave W (SR4W)
19598+00.00	1		4th Ave W (SR4W)
164+50.00	1		320th St (SUR320)
Stage 2C			
19597+75.00	1		4th Ave W (SR4W)
19610+10.00	1		4th Ave W (SR4W)
9609+50.00	1		W 43rd St (SRW43)
Stage 3			
4054+00.00	1		NB US 71 (ML071NB)
90+25.00	1		SB US 71 (SUR071SB)
90+50.00	1		Entrance (SUR071SB)
51+00.00	1		Entrance (SUR071SB)
Stage 4			
63+50.00	1		320th St (SUR320)
Total:	20		

108-35
04-17-12

TEMPORARY LANE SEPARATOR SYSTEM

See TC-61

Station to Station		Length	Remarks
		LF	
Stage 2A - 2C			
87+25.00	95+00.00	775	(SUR071SB)
101+85 R1	53+85 R2	540	(SUR071SB)
Stage 3			
89+50.00	101+00.00	1150	(SUR075NB)
66+85 R2	73+00 R2	615	(SUR075NB)
	Total:	3080	

108-27
10-17-17

TEMPORARY FLOODLIGHTING LUMINAIRES

Possible Standard: LI-130

No.	Location Station	Offset	Number Lumin.	Remarks
	Stage 2			
	89+40.00	15	1	US 71 NB
	91+10.00	15	1	US 71 SB
	65+35.00	15	1	US 71 SB
	68+90.00	15	1	US 71 NB
	Stage 3			
	89+40.00	15	1	US 71 SB
	92+00.00	15	1	US 71 NB
	70+35.00	15	1	US 71 NB
	73+65.00	15	1	US 71 SB
			8	Total

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)	Pipe Classification	Kind Of Pipe (2)	Total Length New Const.	Length of total that is trenchless	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)	DR-205 Inlet Apron Top Elev.	Flow Line Elevations				Dimensions Lin. Ft.				Skew Ahead Degrees		Dike				Class 20	Flowable Mortar	Floodable* Backfill	Porous* Backfill	Flooded Backfill (3)	Remarks
																											Total		Extensions				Rt. / Lt.	Location Station	Top Elevation	Type						
ACRE			IN			LF			FT	FT	IN	OUT	No.	No.	No.	No.	No.	No.	Type	No.	Type		Lt.	Rt.	Other	Other	Lt.	Rt.	Lt.	Rt.	Lt.	Rt.	Lt.				CY	CY	(A) CY	(B) CY	(A+B) CY	
	US 71 SB																																								
	62+22.29	DR-621	44x27		LCP		0	B	2.4		1		1				0		C-3	1				1333.25												5.0					(1)
	62+22.29	DR-621	44x27		LCP		0	B	2.4			1					0		C-3	1				1333.02												6.3					(2)
	US 71 NB																																								
	62+19.75	DR-621	44x27		LCP		0	B	2.0		1						0		C-3	1				1333.54												6.2					(3)
	62+19.75	DR-621	44x27		LCP	2	0	B	2.0			1	1				0		C-3	1			1333.38	1333.40					47.1							13.5					(4)
	5th Ave W																																							
	9625+95.48	DR-601	24	2000	RCP	88	0	B	2.2		1	1					0						1329.99	1330.34			50.30	50.12									7.1	22.7	43.7	7.1	50.8	(5)
	W 43rd St																																							
	9612+15.21	DR-601	24	2000D	RCP	48	0	B	2.0		1	1					0						1325.48	1325.80			30.30	29.94									12.8	11.7	19.4	4.2	23.6	(6)
	9615+85.00	DR-601	24	2000D	RCP	70	0	B	3.8		1	1					0						1321.80	1322.53			41.00	41.24									7.0	21.2	70.9	6.0	76.9	(7)
	4th Ave W																																							
	19592+45.88	DR-601	29x18	3000D	LCP	36	0	B	0.9		1	1					0						1320.78	1321.21			23.28	24.71									20.8	6.5	5.2	2.5	7.8	(8)
	19592+50.46	DR-601	29x18	3000D	LCP	36	0	B	1.0		1	1					0						1320.780	1321.210			23.99	24.00									20.8	6.5	5.2	2.5	7.8	(9)
	W 37th St																																							
	20076+81.80	DR-621	18	2000	RCP	8	0	B	1.0			1					0						1321.26	1321.27			43.62		8								3.7					(10)
	TOTALS:		44x27 LCP			2			apron		4																										103.3	68.5	144.4	22.4	166.8	
			24" RCP			206			apron		6																														
			29x18 LCP			72			apron		4																														
			18" RCP			8			apron		1																														

(1) Remove inlet apron and remove 10'of existing pipe place new DR-202 44x27 (36") pipe apron with DR-213 pipe apron guard with a DR-122 conection to existing pipe, ditch to inlet.
(2) Remove outlet apron and remove 8'of existing pipe place new DR-201 44x27 (36") pipe apron with with a DR-122 conection to existing pipe, ditch to outlet.
(3) Remove inlet apron and remove 8'of existing pipe place new DR-202 44x27 (36") pipe apron with DR-213 pipe apron guard with a DR-122 conection to existing pipe, ditch to inlet.
(4) Remove outlet apron and extened 2' with a DR-202 with DR-213 pipe apron guard with a DR-12 conection to existing pipe, ditch to outlet.
(5) Culvert is designed to be cut and cover. Lay 88' of 24" 2000D RCP with two DR-201 Aprons
(6) Culvert is designed to be cut and cover. Lay 48' of 24" 2000D RCP with two DR-201 Aprons
(7) Culvert is designed to be cut and cover. Lay 70' of 24" 2000D RCP with two DR-201 Aprons
(8) Culvert is designed to be cut and cover. Remove existing 2'x 2'RCB at STA 19592+48.17. Lay 36' of 29"x18" 3000D LCP with two DR-202 Aprons
(9) Culvert is designed to be cut and cover. Remove existing 2'x 2'RCB at STA 19592+48.17 Lay 36' of 29"x18" 3000D LCP with two DR-202 Aprons
(10) Remove outlet apron and extened 8' with a DR-201 with a DR-121 conection to existing pipe ditch to outlet. Tie new pipe to old pipe with longitude tie bars

HYDRAULIC DESIGN

LICENSED PROFESSIONAL ENGINEER
Jim D. Ellis
15557
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.

Signature — Date: 6/29/2026

Jim D. Ellis
Printed or Typed Name

My license renewal date is December 31, 20 26

Pages or sheets covered by this seal: CD.1

103_06
8/15/22

EMBANKMENT WITH MOISTURE CONTROL

Moisture Control is required for all Class 10 fill placed in all locations and depths. Stability berms placed outside the normal foreslope template and topsoil will not require Moisture Control.

103_07
8/15/22

SHRINKAGE DATA

Material	%	Remarks
Topsoil	40.0	
Class 10	30.0	
Boulders	0.0	5 CY

103_10
4/30/25

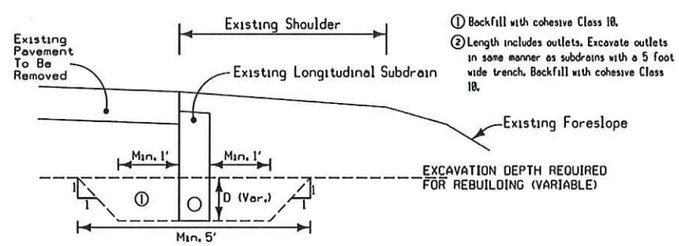
TOPSOIL STRIPPING AND PLACEMENT

Line No.	Road Identification	Dir. of Traffic	Station From	Station To	Topsoil Stripping Thickness (IN)	Topsoil Placement Thickness (IN)	Remarks
1.0	--		+.00		12.0	8.0	ENTIRE PROJECT

110_19
4/21/26

REMOVAL OF EXISTING LONGITUDINAL SUBDRAINS WHEN EXISTING PAVEMENT IS REMOVED

See Tab 104-9 for tabulation of longitudinal subdrains



* Not a bid item.

Line No.	Roadway Identification	Station From	Station To	Side	Length (2) (LF)	Depth (D) (FT)	Excavation Quantity* (CY)	Remarks
1.0	US 71 NB	51+47.09	54+38.00	Right	351.0	3.5	68.25	Cut into existing drain and add new outlet.
2.0	US 71 NB	56+50.00	59+34.00	Right	344.0	3.5	66.89	
3.0	US 71 NB	59+34.00	63+27.23	Right	453.2	3.5	88.12	Cut into existing drain and add new outlet.
4.0	US 71 SB	53+84.60	55+08.00	Left	183.4	3.5	35.66	Cut into existing drain and add new outlet.
5.0	US 71 SB	56+74.00	60+18.00	Left	404.0	3.5	78.56	
6.0	US 71 SB	60+18.00	62+86.06	Left	328.1	3.5	63.80	Cut into existing drain and add new outlet.
Total:					2063.7		401.28	

* Note: If additional granular material is encountered at the required depth of excavation, then excavate deeper until all granular material is removed.

GEOTECHNICAL DESIGN

LICENSED PROFESSIONAL ENGINEER
Mark A. Dell
21208
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.

Signature 6/11/26
Date

Mark A. Dell
Printed or Typed Name

My license renewal date is December 31, 20 27

Pages or sheets covered by this seal: CS.1-CS.2 & Q.1-Q.3

FILE NO.	ENGLISH	DESIGN TEAM Dell/Fagre	CLAY COUNTY	PROJECT NUMBER HSIPX-018-2(142)--3L-21	SHEET NUMBER CS.1

2/23/2026 2:53:51 PM User.fagee@iowadot.us

LONGITUDINAL SUBDRAIN SHOULDER

* Not a bid item.

Line No.	Road or Lane Identification	Station From	Station To	Side	Depth (IN) (D)	Subdrain Size (IN)	Length (FT)	Outlet Station	Outlet Type	Porous Backfill* (CY)	Remarks
1.0	US 18 EB Entry	2629+18.82	2631+00.00	Right	42.0	4.0	211.2	2629+18.82	DR-306	19.6	Notes 1, 2, 3
2.0	US 18 EB Entry			Right	42.0	4.0	30.0	2631+00.00	DR-306	2.8	
3.0	US 18 EB Entry	2632+13.37	5055+36.17	Right	42.0	4.0	227.7	2632+13.37	DR-303	21.1	Notes 1, 2, 4, 5, 6
4.0	US 71 SB Exit			Left	42.0	4.0	5.0	5055+36.17	DR-303	0.5	Outlet to intake 400
5.0	US 71 SB Exit	5054+65.60	5053+84.00	Left	36.0	4.0	111.6	5054+65.60	DR-306	8.6	Notes 1, 2, 3
6.0	US 71 SB Exit			Left	36.0	4.0	30.0	5053+84.00	DR-306	2.3	
7.0	US 71 NB Entry	4051+47.09	4054+38.50	Right	24.0	4.0	321.4	4051+47.09	DR-306	14.9	Notes 1, 2, 3
8.0	US 71 NB Entry			Right	24.0	4.0	30.0	4054+38.50	DR-306	1.4	
9.0	US 71 NB Entry	4055+18.00	6157+94.42	Right	24.0	4.0	197.0	4055+18.00	DR-303	9.1	Notes 1, 2, 4, 7, 8
10.0	320th St EB Exit			Right	24.0	4.0	5.0	6157+94.42	DR-303	0.2	Outlet to intake 270
11.0	320th St EB Exit	6158+50.00	6161+00.00	Right	42.0	4.0	280.0	6158+50.00	DR-306	25.9	Notes 1, 2, 3
12.0	320th St EB Exit			Right	42.0	4.0	30.0	6161+00.00	DR-306	2.8	
13.0	320th St EB Exit	6161+00.00	6164+35.43	Right	42.0	4.0	365.4	6161+00.00	DR-306	33.8	Notes 1, 2, 3
14.0	320th St EB Exit			Right	42.0	4.0	30.0	6164+35.43	DR-306	2.8	
15.0	320th St WB Entry	7164+35.43	7161+00.00	Left	42.0	4.0	365.4	7164+35.43	DR-306	33.8	Notes 1, 2, 3
16.0	320th St WB Entry			Left	42.0	4.0	30.0	7161+00.00	DR-306	2.8	
17.0	320th St WB Entry	7161+00.00	7158+78.50	Left	42.0	4.0	251.5	7161+00.00	DR-306	23.3	Notes 1, 2, 3
18.0	320th St WB Entry			Left	42.0	4.0	30.0	7158+78.50	DR-306	2.8	
19.0	320th St WB Entry	7158+45.52	4058+52.85	Left	36.0	4.0	290.8	7158+45.52	DR-303	26.9	Notes 1, 2, 4, 9, 10
20.0	US 71 NB Exit			Right	36.0	4.0	5.0	4058+52.85	DR-303	0.4	Outlet to intake 230
21.0	US 71 NB Exit	4058+97.00	4063+27.23	Right	36.0	4.0	460.2	4058+97.00	DR-306	42.6	Notes 1, 2, 3
22.0	US 71 NB Exit			Right	36.0	4.0	30.0	4063+27.23	DR-306	2.3	
23.0	US 71 SB Entry	5065+01.65	5059+62.50	Left	36.0	4.0	569.1	5065+01.65	DR-306	52.7	Notes 1, 2, 3
24.0	US 71 SB Entry			Left	36.0	4.0	30.0	5059+62.50	DR-306	2.3	
25.0	US 71 SB Entry	5059+44.16	3632+50.00	Left	36.0	4.0	234.1	5059+44.16	DR-303	18.1	Notes 1, 2, 4, 11, 12
26.0	US 18 WB Exit			Left	36.0	4.0	5.0	3632+50.00	DR-303	0.4	outlet to intake 150
27.0	US 18 WB Exit	3632+10.50	3629+18.82	Left	42.0	4.0	321.7	3632+10.50	DR-306	24.8	Notes 1, 2, 3
28.0	US 18 WB Exit			Left	42.0	4.0	30.0	3629+18.82	DR-306	2.8	
Total:							**4527.1**			**381.8**	

Total number of DR-303 outlets: 8
Total number of DR-306 outlets: 20
Notes:
1. Subdrains may be adjusted both vertically and horizontally in the field as necessary.
2. Any existing longitudinal subdrains encountered during construction that are not removed shall remain functioning.
3. Type 7 installation with PCC or Type 8 installation with HMA (ACC).
4. Type 12 installation.
5. Outlet to intake 440.
6. Continue longitudinal subdrain around radius toward US 71 SB EXIT.
7. Outlet to intake 320.
8. Continue longitudinal subdrain around radius toward 320TH ST EB EXIT.
9. Outlet to intake 250.
10. Continue longitudinal subdrain around radius toward US 71 NB EXIT.
11. Outlet to intake 200.
12. Continue longitudinal subdrain around radius toward US 18 WB EXIT.
13. See Q.2-3 for additional layout details.

SURVEY SYMBOLS

- Interstate Highway Symbol
- U.S. Highway Symbol
- Iowa Highway Symbol
- County Road Highway Symbol
- Evergreen Tree
- Deciduous Tree
- Fruit Tree
- Shrub (Bushes)
- Timber
- Hedge
- Stump
- Swamp
- Rock Outcrop
- Broken Concrete
- Revetment (Rip Rap)
- Cemetery
- Grave
- Cave
- Sink Hole
- Board Fence
- Chain Link or Security Fence
- Wire Fence
- Terrace
- Earth Dam or Dike (Existing)
- Tile Outlet
- Edge of Water
- Existing Drainage
- Right of Way Rail or Lot Corner
- Concrete Monument
- Well
- Windmill
- Beehive Intake
- Existing Intake
- Existing Utility Access (Manhole)
- Fire Hydrant
- WH Water Hydrant (Rural)
- Septic Tank
- Cistern
- L.P. Gas Tank (No Footing)
- Underground Storage Tank
- Latrine
- Satellite TV Dish
- WHU Water Hook Up
- RT Radio Tower
- TA Tower Anchor
- Guardrail (Beam or Cable)
- GP Guard Post (one or two)
- Guard Post (over two)
- FP Filler Pipe
- GV Gas Valve
- WV Water Valve
- SL Speed Limit Sign
- MM Mile Marker Post
- SIGN Sign
- TCB Traffic Signal Control Box
- RRB Rail Road Signal Control Box
- TSB Telephone Switch Box
- EB Electric Box

UTILITY LEGEND

E1
Alliant Energy
Billie Reid
Real Estate and ROW Representative II
billiereid@alliantenergy.com

E2
Private Electrical Line (Owner Unknown)

E3
Spencer Municipal Utilites
Sean Hefner
Electric Manager
sean.hefner@smunet.net 712-240-3618

E4
Iowa DOT
Jason Dale
ITS Maintenance Engineer
Jason.Dale@iowadot.us

E5
Iowa Lakes Electric Coop
Brian Scott
Field Superintendent
brians@ilec.coop 7122604012

FO
Spencer Municipal Utilites
Mark White
Public Works Director
mwhite@spenceriowacity.com

FO2
LongLines Broadband
Tom Connors
Design/Construction Manager
tconnors@longlines.biz 515-554-5227

FO3
H&D UNDERGROUND

FO4
Iowa Communicatlons Network (ICN)
David Augspurger
Sr Telecom Specialist | OSP Lead
david.augspurger@icn.state.ia.us (515) 229-2013

FO5
CenturyLink
Steve Parker
Manager of Engineering & Construction
Steven.Parker4@lumen.com 5073581978

G
Northern Natural Gas
Jeff Larson
Senior Right of Way Agent
Jeff.Larson@nngco.com

G2
GL1D, Black Hills Energy - Quality D
Morgan Post
Design Engineer
morgan.post@blackhillscorp.com 307-696-9394

ST S(C)

T1
Lumen CenturyLink
Steve Parker
Manager of Engineering & Construction
Steven.Parker4@lumen.com 5073581978

W
Spencer Municipal Utilities (SMU)
Mark White
Public Works Director
mwhite@spenceriowacity.com

PPB, Iowa Lakes Electric Coop

PPA, Spencer Municipal Utilities (SMU)

FO6
FO5D, Mediacom - Quality D
Jeff Anfinson
Technical Operations Manager
janfinson@mediacomcc.com

FO7
FO5D, Private Midwestern Mechanical - Quality D

FO8
FO5D, Premier Communications - 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.**	
Lavender	(9)	Temporary Pavement Shading
Yellow	(4)	Proposed Pavement Shading
Orange	(6)	Proposed Granular Shading
Orange	(70)	Proposed Shoulder Granular Shading
Yellow	(68)	Proposed Shoulder Paved Full Depth Shading
Yellow	(132)	Proposed Shoulder Paved Partial Depth Shading
Gray, Dark	(112)	Proposed Grade and Pave Shading "In conjunction with a paving project"
Brown, Light	(236)	Grading Shading
Orange, Light	(134)	Proposed Granular Entrance Shading
Yellow	(220)	Proposed Paved Entrance Shading
Tan	(8)	Proposed Sidewalk Shading
Blue, Light	(230)	Proposed Sidewalk Landing Shading
Pink	(11)	Proposed Sidewalk Ramp Shading
Green, Light	(225)	Existing Pavement Shading
Red	(3)	Proposed Structure Shading
Red	(3)	Delineates Restricted Areas
Blue, Light	(7)	Proposed Paved Median Shading
Pink	(13)	Proposed Truck Apron Shading

PROFILE VIEW COLOR LEGEND OF PLAN AND PROFILE SHEETS

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

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

RIGHT-OF-WAY LEGEND

- Proposed Right-of-Way
- Existing Right of Way
- 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)

Summit TWP.
T-97N R-37W
SEC. 25

Sect. No. 36

625+00

630+00

STA 629+18.82 (SUR018)
BEGIN CONSTRUCTION

53"x32"x44'
Arched Conc. Pipe
53"x32"x44'
Arched Conc. Pipe
U.A.C.

24"x56'
C.M.P.
U.A.C.

24"x75'
Conc. Pipe
Remove

24"x96'
Conc. Pipe
Remove

24"x73'
Conc. Pipe
Remove

Type "B" End
Remove

18

71

5th Ave W

320th St

POE 636+20.00

LEVEL "D"

TILE

APPROX. SEC. LINE

0 FEET 50

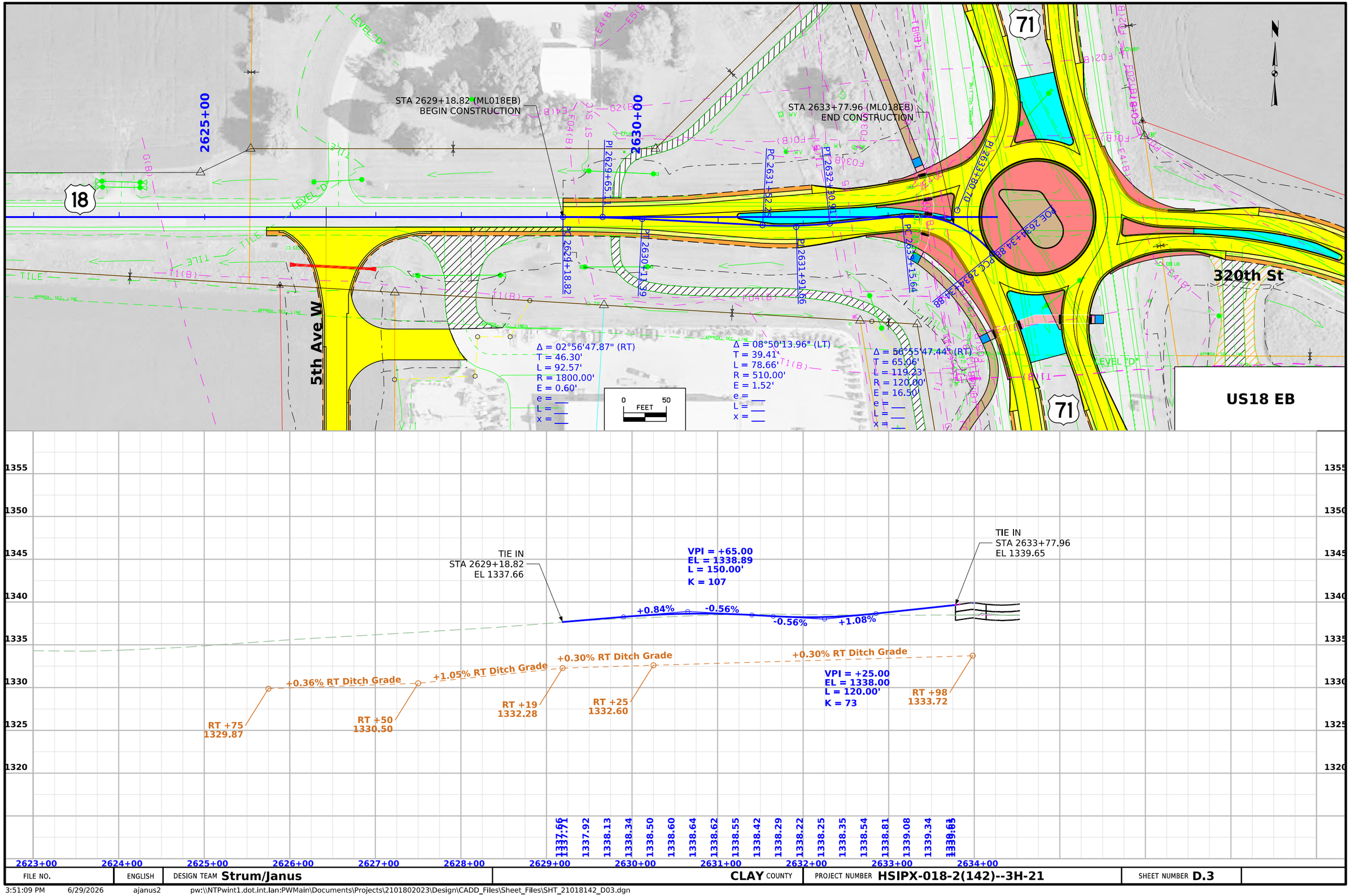
US18 (SUR18)

1355
1350
1345
1340
1335
1330
1325
1320

624+00 625+00 626+00 627+00 628+00 629+00 630+00 631+00 632+00 633+00 634+00

FILE NO.	ENGLISH	DESIGN TEAM **Strum/Janus**	**CLAY** COUNTY	PROJECT NUMBER **HSIPX-018-2(142)--3H-21**	SHEET NUMBER **D.2**

3:50:40 PM 6/29/2026 ajanus2 pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\2101802023\Design\CADD_Files\Sheet_Files\SHT_21018142_D02.dgn



FILE NO.	ENGLISH	DESIGN TEAM **Strum/Janus**	**CLAY** COUNTY	PROJECT NUMBER **HSIPX-018-2(142)--3H-21**	SHEET NUMBER **D.3**

3:51:09 PM 6/29/2026 ajanus2 pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\2101802023\Design\CADD_Files\Sheet_Files\SHT_21018142_D03.dgn

Δ = 02°53'18.19" (LT)
T = 65.55'
L = 131.07'
R = 2600.00'
E = 0.83'
e = ___
L = ___
x = ___

Δ = 22°19'57.50" (LT)
T = 102.65'
L = 202.68'
R = 520.00'
E = 10.03'
e = ___
L = ___
x = ___

STA 629+18.82 (SUR018)
STA 3629+18.82 (ML018WB)
BEGIN CONSTRUCTION

STA 3633+85.58 (ML018WB)
END CONSTRUCTION

3625+00

3630+00

PC 3629+34.00

PT 3630+65.87

PC 3632+49.10

PC 3633+51.95

PC 3630+00.53

18

71

71

320th St

5th Ave W

Remove

LEVEL "D"

TILE

APPROX. SEC. LINE

0 FEET 50

US 18 WB

TIE IN
STA 3629+18.82
EL 1337.66

VPI = +75.00
EL = 1339.06
L = 150.00'
K = 100

VPI = +25.00
EL = 1338.16
L = 120.00'
K = 73

TIE IN
STA 3633+85.58
EL 1339.84

+0.90%
-0.60%
-0.60%
+1.04%

+0.85% LT Ditch Grade
+0.66% LT Ditch Grade
+2.03% LT Ditch Grade
-0.51% LT Ditch Grade

LT +49 1331.40
LT +40 1332.17
LT +00 1333.88
LT +50 1334.90
LT +09 1334.60

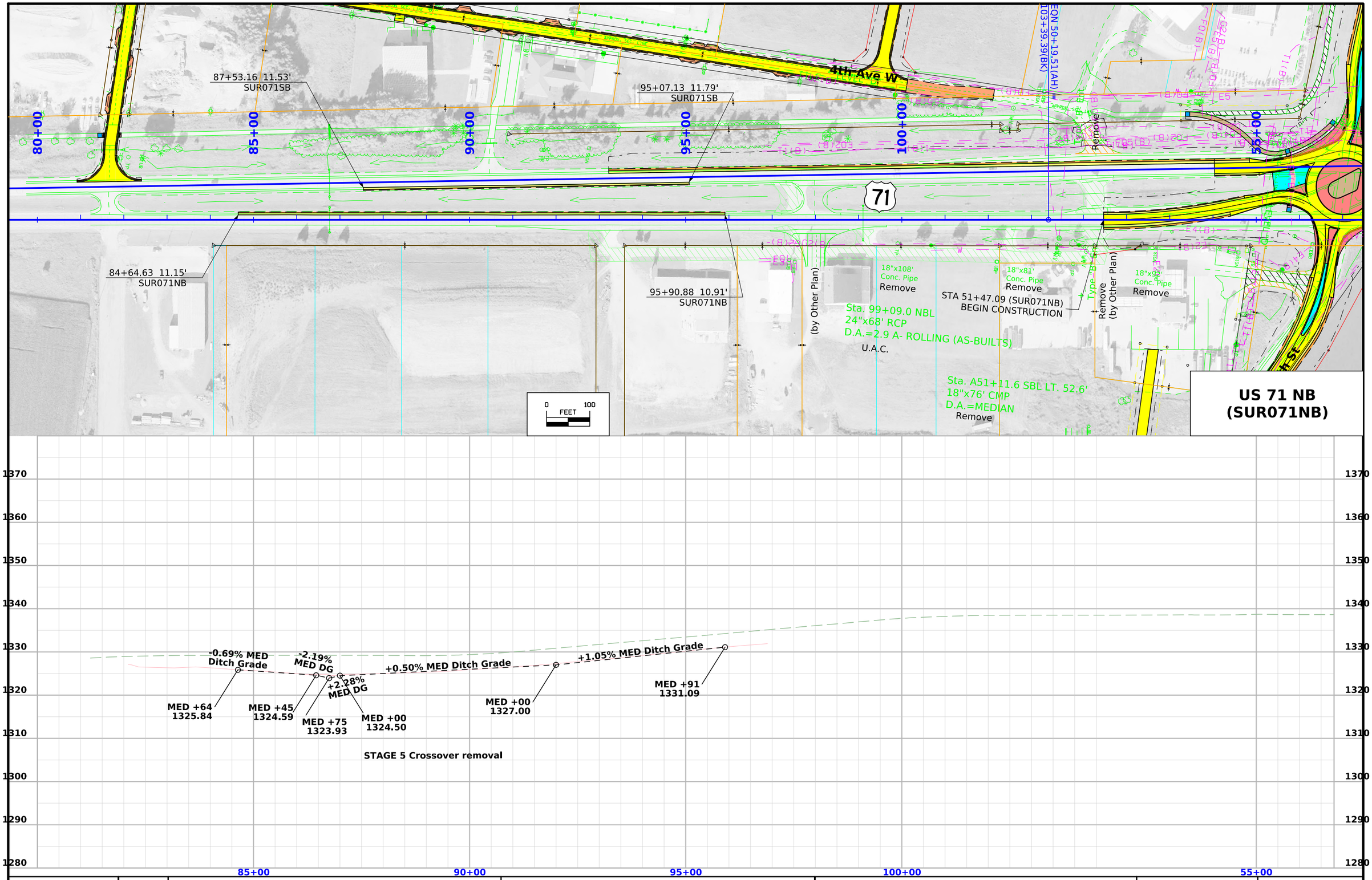
1337.66 1337.94 1338.16 1338.39 1338.58 1338.71 1338.78 1338.79 1338.73 1338.61 1338.47 1338.40 1338.41 1338.51 1338.69 1338.95 1339.21 1339.47 1339.73 1339.84

1355 1350 1345 1340 1335 1330 1325 1320

3623+00 3624+00 3625+00 3626+00 3627+00 3628+00 3629+00 3630+00 3631+00 3632+00 3633+00 3634+00

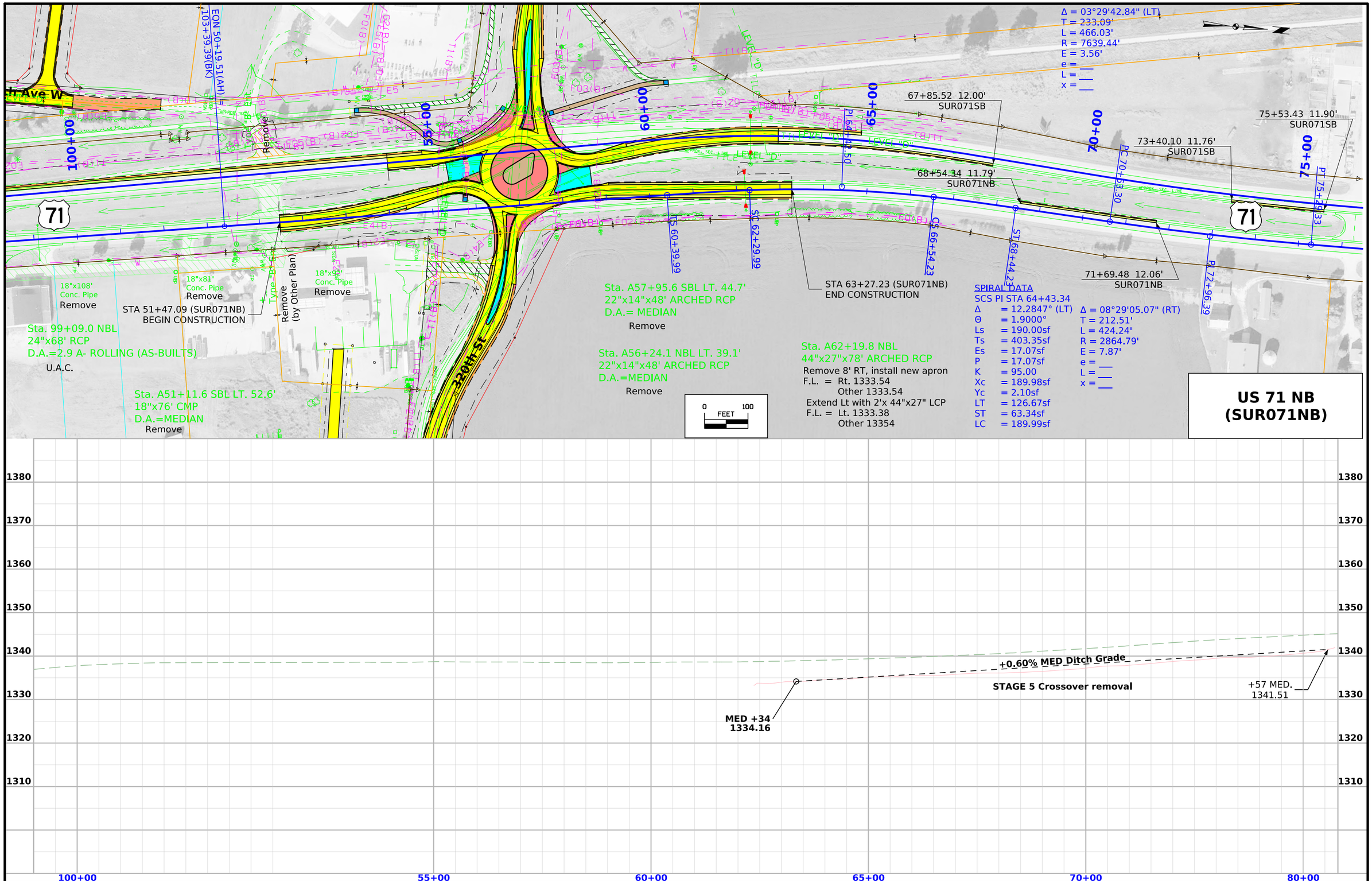
FILE NO.	ENGLISH	DESIGN TEAM **Strum/Janus**	**CLAY** COUNTY	PROJECT NUMBER **HSIPX-018-2(142)--3H-21**	SHEET NUMBER **D.4**

3:51:24 PM 6/29/2026 ajanus2 pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\2101802023\Design\CADD_Files\Sheet_Files\SHT_21018142_D04.dgn



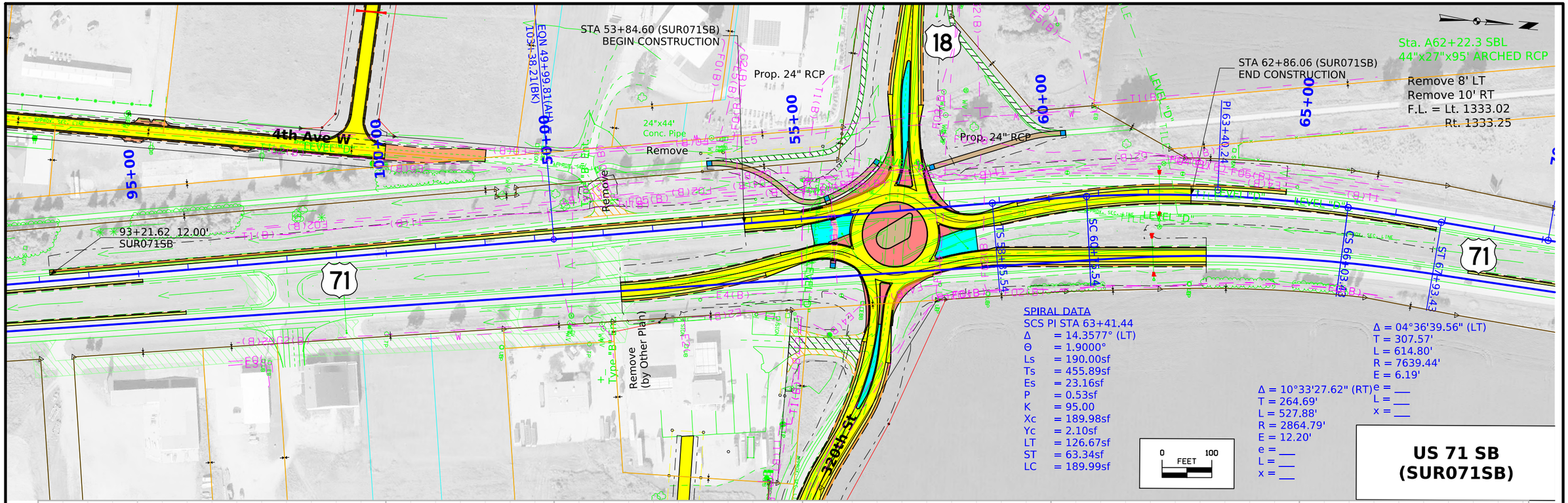
FILE NO.	ENGLISH	DESIGN TEAM Strum/Janus	CLAY COUNTY	PROJECT NUMBER HSIPX-018-2(142)--3H-21	SHEET NUMBER D.5

3:52:07 PM 6/29/2026 ajanus2 pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\2101802023\Design\CADD_Files\Sheet_Files\SHT_21018142_D05.dgn



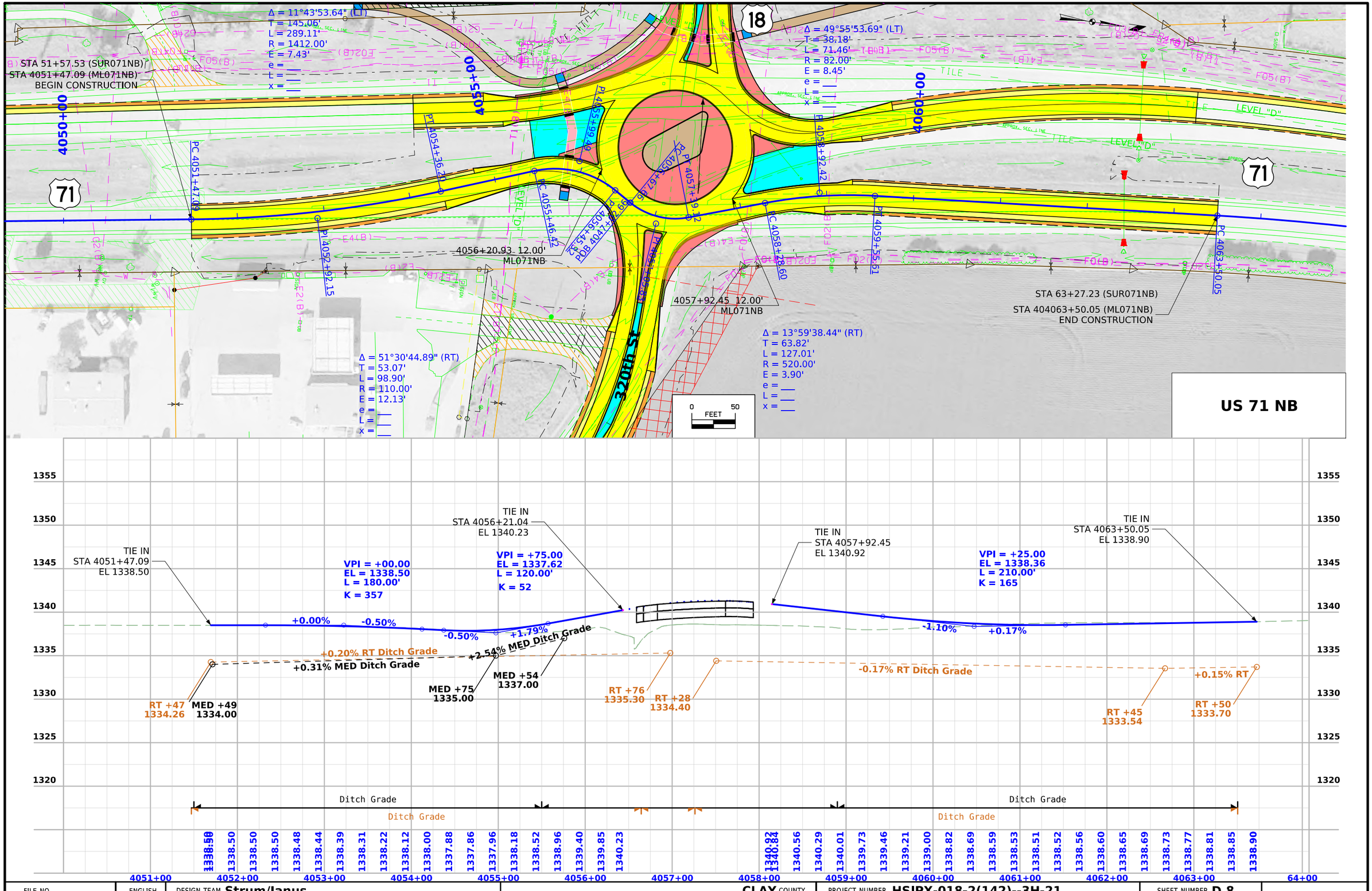
FILE NO.	ENGLISH	DESIGN TEAM **Strum/Janus**	**CLAY** COUNTY	PROJECT NUMBER **HSIPX-018-2(142)--3H-21**	SHEET NUMBER **D.6**

3:52:29 PM 6/29/2026 ajanus2 pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\2101802023\Design\CADD_Files\Sheet_Files\SHT_21018142_D05.dgn



FILE NO.	ENGLISH	DESIGN TEAM **Strum/Janus**	**CLAY** COUNTY	PROJECT NUMBER **HSIPX-018-2(142)--3H-21**	SHEET NUMBER **D.7**

3:52:52 PM 6/29/2026 ajanus2 pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\2101802023\Design\CADD_Files\Sheet_Files\SHT_21018142_D07.dgn



FILE NO.	ENGLISH	DESIGN TEAM Strum/Janus	CLAY COUNTY	PROJECT NUMBER HSIPX-018-2(142)--3H-21	SHEET NUMBER D.8

3:53:01 PM 6/29/2026 ajanus2 pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\2101802023\Design\CADD_Files\Sheet_Files\SHT_21018142_D08.dgn

Δ = 13°06'19.70" (LT)
T = 58.81'
L = 117.11'
R = 512.00'
E = 3.37'
e = ___
L = ___
x = ___

5056+16.24 12.00'
ML071SB

5057+98.21 12.00'
ML071SB

Δ = 50°49'57.40" (LT)
T = 52.27'
L = 97.59'
R = 110.00'
E = 11.79'
e = ___
L = ___
x = ___

STA 62+86.06 (SUR071SB)
STA 5063+11.16 (ML071SB)
END CONSTRUCTION

STA 53+59.49 (SUR071SB)
STA 5053+84.60 (ML071SB)
BEGIN CONSTRUCTION

STA 64+76.70 (SUR071SB)
STA 5065+01.81 (ML071SB)
END CONSTRUCTION

Δ = 56°42'12.62" (RT)
T = 44.25'
L = 81.15'
R = 82.00'
E = 11.18'
e = ___
L = ___
x = ___

Δ = 13°20'41.98" (RT)
T = 165.18'
L = 328.87'
R = 1412.00'
E = 9.63'
e = ___
L = ___
x = ___

Δ = 06°20'50.12" (RT)
T = 158.84'
L = 317.36'
R = 2864.79'
E = 4.40'
e = ___
L = ___
x = ___

0 FEET 50

US 71 SB

VPI = +00.00
EL = 1338.34
L = 120.00'
K = 91

VPI = +00.00
EL = 1338.15
L = 140.00'
K = 100

TIE IN
STA 5053+84.60
EL 1338.57

TIE IN
STA 5063+11.17
EL 1339.16

-0.20% **+1.12%** **-1.08%** **+0.32%**

+0.36% LT Ditch Grade **-1.22% LT Ditch Grade** **-0.32% LT Ditch Grade** **+0.33% LT** **+0.55% LT Ditch Grade**

-5.64% MED Ditch Grade **-1.70% MED Ditch Grade** **-0.56% MED Ditch Grade** **+0.78% MED Ditch Grade** **+0.43% MED Ditch Grade**

LT +85 1335.69
LT +90 1336.07
LT +83 1333.72
LT +49 1334.60
MED +89 1338.23
MED +25 1336.20
MED +25 1334.50
MED +45 1333.28
LT +49 1333.02
LT +00 1333.19
MED +50 1334.10
LT +00 1334.28

Ditch Grade Ditch Grade

1338.57 1338.54 1338.49 1338.44 1338.46 1338.54 1338.69 1338.90 1339.18 1339.45 1339.64 1340.33 1340.04 1339.77 1339.50 1339.23 1338.96 1338.71 1338.52 1338.40 1338.33 1338.33 1338.39 1338.47 1338.55 1338.63 1338.72 1338.80 1338.88 1338.96 1339.04 1339.12 1339.16

5051+00 5052+00 5053+00 5054+00 5055+00 5056+00 5057+00 5058+00 5059+00 5060+00 5061+00 5062+00 5063+00 5064+00 5065+00

1355 1350 1345 1340 1335 1330 1325 1320

FILE NO.	ENGLISH	DESIGN TEAM **Strum/Janus**	**CLAY** COUNTY	PROJECT NUMBER **HSIPX-018-2(142)--3H-21**	SHEET NUMBER **D.9**

3:53:23 PM 6/29/2026 ajanus2 pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\2101802023\Design\CADD_Files\Sheet_Files\SHT_21018142_D09.dgn

Δ = 27°53'30.44" (RT)
T = 106.78'
L = 209.33'
R = 430.01'
E = 13.06'
e = ___
L = ___
x = ___

Δ = 27°40'24.71" (LT)
T = 100.98'
L = 198.03'
R = 410.00'
E = 12.25'
e = ___
L = ___
x = ___

Meadow TWP.
T-97N R-36W
SEC. 30

71

18

71

PI 158+22.49

POB 156+93.22

160+00

PC 160+27.28

PT 162+87.43

PI 159+55.04

PI 163+58.27

Proposed
29"x18"x58' LCP

+95
Proposed
Type "D" Ent.

+93
Type "D" Ent.

165+00

Close

18"x65'
C.M.P.
Remove

320th St

STA 164+35.43 (SUR320)
END CONSTRUCTION

Close

Do not Disturb

+ Type "B" Ent.

LEVEL "D"

Sect. No.31

2nd Ave

37"x23"x112'
ARCHED Conc. Pipe
U.A.C.

0 50
FEET

320th St (SUR320)

+95
Proposed
Type "D" Ent.

4%

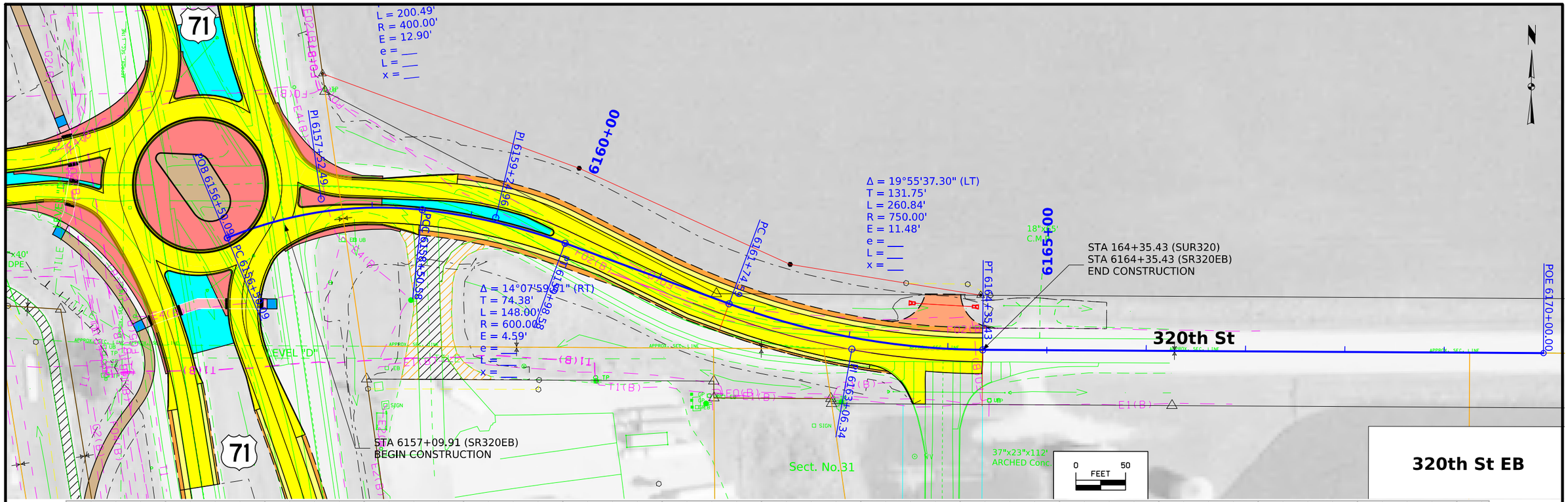
6%

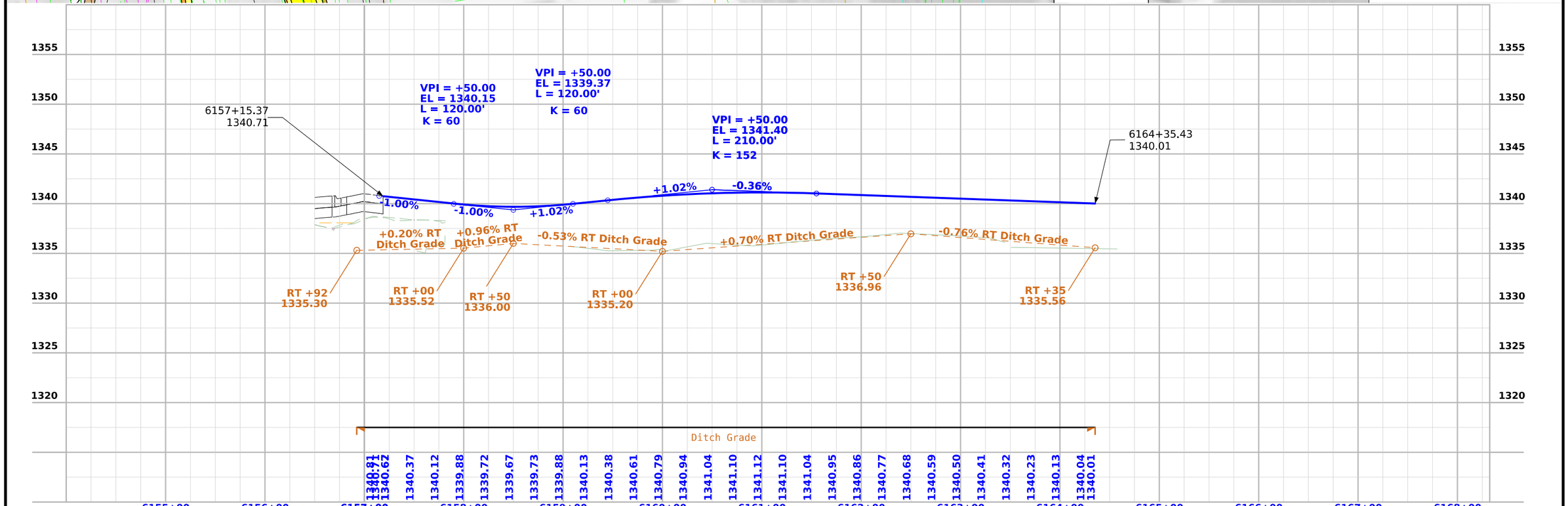
1355
1350
1345
1340
1335
1330
1325
1320

155+00 156+00 157+00 158+00 159+00 160+00 161+00 162+00 163+00 164+00 165+00 166+00 167+00 168+00

FILE NO.	ENGLISH	DESIGN TEAM **Strum/Janus**	**CLAY** COUNTY	PROJECT NUMBER **HSIPX-018-2(142)--3H-21**	SHEET NUMBER **E.1**

3:55:44 PM 6/29/2026 ajanus2 pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\2101802023\Design\CADD_Files\Sheet_Files\SHT_21018142_E01.dgn





FILE NO.	ENGLISH	DESIGN TEAM **Strum/Janus**	**CLAY** COUNTY	PROJECT NUMBER **HSIPX-018-2(142)--3H-21**	SHEET NUMBER **E.2**

3:55:59 PM 6/29/2026 ajanus2 pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\2101802023\Design\CADD_Files\Sheet_Files\SHT_21018142_E02.dgn

Δ = 52°20'06.79" (LT)
T = 58.96'
L = 109.61'
R = 120.00'
E = 13.70'
e = ___
L = ___
x = ___

Δ = 25°01'49.34" (LT)
T = 166.48'
L = 327.65'
R = 750.00'
E = 18.25'
e = ___
L = ___
x = ___

71

18

STA 7157+12.80 (SR320WB)
BEGIN CONSTRUCTION

PI 7159+28.08

7160+00

PC 7161+07.78

PT 7157+70.15

PC 7158+32.72

PI 7157+19.58

PI 7159+98.43

PT 7160+35.43

7165+00

STA 164+35.43 (SUR320)
STA 7164+35.43 (SR320WB)
END CONSTRUCTION

320th St

POE 7170+00.00

PI 7162+74.26

Δ = 23°21'42.77" (RT)
T = 72.36'
L = 142.71'
R = 350.00'
E = 7.40'
e = ___
L = ___
x = ___

0 50 FEET

320th St WB

VPI = +50.00
EL = 1339.60
L = 120.00'
K = 58

VPI = +25.00
EL = 1341.58
L = 210.00'
K = 146

7157+12.80
1341.02

7164+35.43
1339.98

-0.98%
-0.98%
+1.08%
+1.08%
-0.36%

+0.61% LT Ditch Grade
+0.49% LT Ditch Grade
-0.29% LT Ditch Grade
-0.3% LT
DITCH GRADE

LT +97
1334.40

LT +75
1334.88

LT +25
1336.60

LT +36
1335.71

+60 LT
1335.30

Ditch Grade

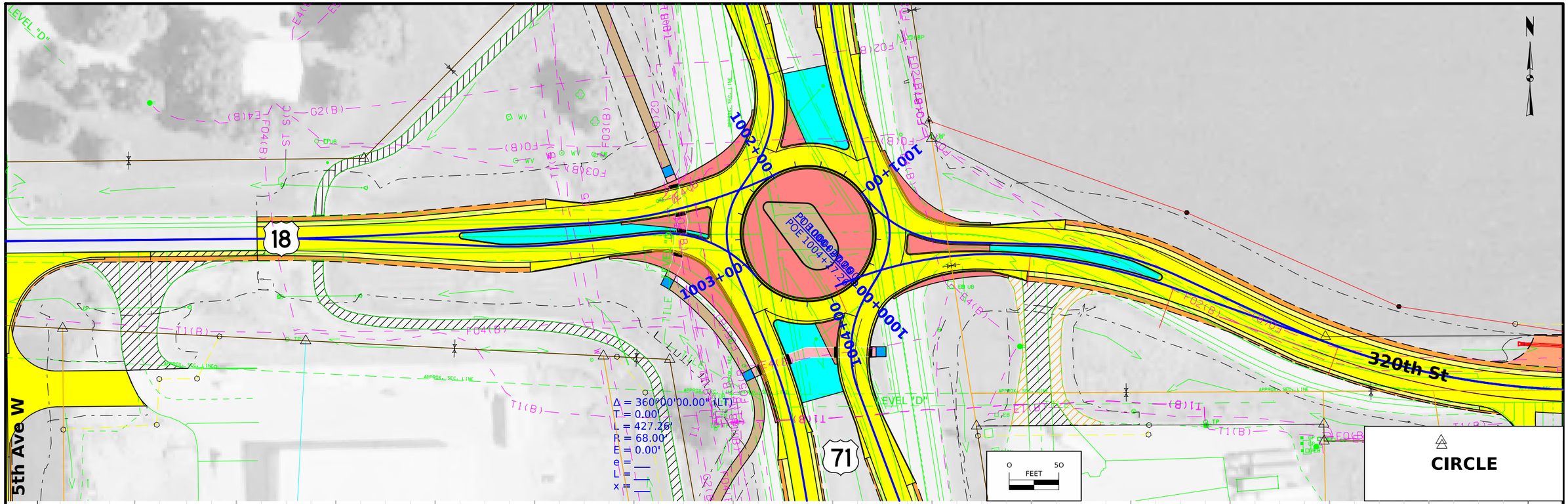
1355 1350 1345 1340 1335 1330 1325 1320

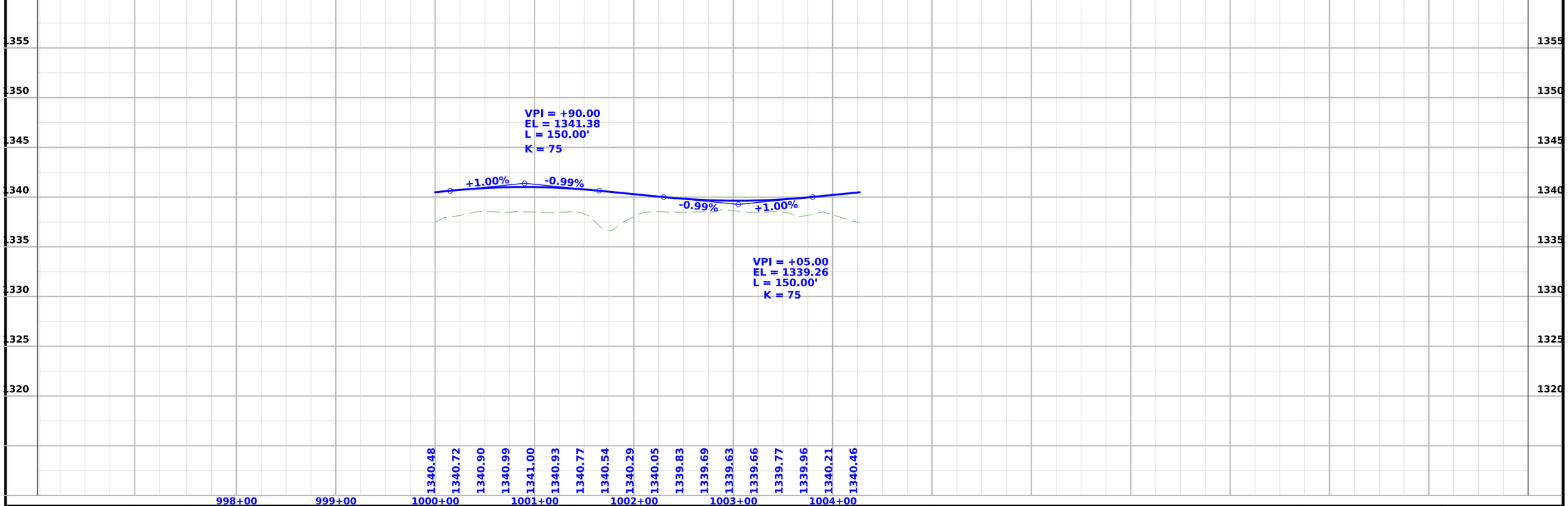
1341.02 1340.82 1340.58 1340.33 1340.10 1339.95 1339.91 1339.98 1340.15 1340.20 1340.28 1340.33 1340.36 1340.36 1340.34 1340.29 1340.19 1340.12 1340.04 1340.95 1340.86 1340.77 1340.68 1340.59 1340.50 1340.41 1340.32 1340.23 1340.14 1340.04 1340.01

7154+00 7155+00 7156+00 7157+00 7158+00 7159+00 7160+00 7161+00 7162+00 7163+00 7164+00 7165+00 7166+00 7167+00 7168+00

FILE NO.	ENGLISH	DESIGN TEAM **Strum/Janus/Gunderson**	**CLAY** COUNTY	PROJECT NUMBER **HSIPX-018-2(142)--3L-21**	SHEET NUMBER **E.3**

3:56:12 PM 6/29/2026 ajanus2 pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\2101802023\Design\CADD_Files\Sheet_Files\SHT_21018142_E03.dgn





FILE NO.	ENGLISH	DESIGN TEAM **Strum/Janus/Gunderson**	**CLAY** COUNTY	PROJECT NUMBER **HSIPX-018-2(142)--3L-21**	SHEET NUMBER **E.4**

3:56:20 PM 6/29/2026 ajanus2 pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\2101802023\Design\CADD_Files\Sheet_Files\SHT_21018142_E04.dgn

Δ = 86°42'39.99" (RT)
T = 188.84'
L = 302.68'
R = 200.00'
E = 75.06'
e = NC
L = ___
x = ___

Sta. 9615+85
Skewed 32°
Install 24" x 70' RCP
F.L. = Lt. 1321.86 Rt. 1322.5

Sta. 9612+15
Skewed 3°
Install 24" x 48' RCP
F.L. = Lt. 1325.5 Rt. 1325.8

Sta. 9625+95.48
Skewed 3° LT Ahd.
Install 24" x 88' RCP
F.L. = Lt. 1330.00 Rt. 1330.34

STA 9609+35.79 (SRW43)
BEGIN CONSTRUCTION

9609+44.76 (SRW43)
19609+36.23 (SR4W)

STA 9626+42.00 (SRW43)
END CONSTRUCTION

R=50'
R=45'

+05 Type "B" End

0 100 FEET

W 43rd St & 5th Ave W

VPI = +00.00
EL = 1329.49
L = 180.00'
K = 150

VPI = +00.00
EL = 1330.40
L = 180.00'
K = 208

VPI = +50.00
EL = 1328.15
L = 180.00'
K = 133

TIE IN
STA 9609+35.79
EL 1331.03

TIE IN
STA 9626+33.03
EL 1335.60

-0.74% | +0.46% | -0.41% | -0.41% | +0.94% | +1.61% | +0.57%

-0.70% RT | -0.70% LT | +0.46% | -0.97% RT | -0.87% LT | -1.27% LT | -0.29% RT | +0.34% RT | +0.45% LT | +1.00% RT DG | +0.77% LT | +0.98% RT Ditch Grade | +0.94% LT | +1.68% RT | -0.15% RT | +2.20% LT

RT +36 1327.78 | LT +36 1327.44 | LT +13 1325.50 | RT +17 1325.80 | LT +75 1324.08 | RT +25 1322.80 | LT +55 1321.80 | LT +65 1321.80 | RT +16 1322.53 | RT +25 1323.25 | LT +25 1322.98 | RT +00 1325.00 | LT +74 1324.90 | RT +75 1329.66 | RT +25 1330.50 | LT +90 1329.93 | RT +90 1330.40 | LT +75 1329.60

1330.60 1330.42 1330.23 1330.05 1329.91 1329.81 1329.76 1329.74 1329.77 1329.84 1329.94 1330.05 1330.13 1330.18 1330.21 1330.20 1330.16 1330.09 1329.99 1329.89 1329.79 1329.68 1329.58 1329.48 1329.38 1329.27 1329.17 1329.07 1328.97 1328.86 1328.76 1328.66 1328.56 1328.46 1328.41 1328.45 1328.54 1328.68 1328.86 1329.09 1329.32 1329.56 1329.79 1330.03 1330.26 1330.50 1330.74 1330.97 1331.21 1331.44 1331.68 1331.91 1332.15 1332.38 1332.62 1332.85 1333.09 1333.32 1333.56 1333.79 1334.03 1334.26 1334.50 1334.73 1334.97 1335.20 1335.44 1335.60

1370 1360 1350 1340 1330 1320 1310 1300 1290 1280

9605+00 9610+00 9615+00 9620+00 9625+00 9630+00

FILE NO.	ENGLISH	DESIGN TEAM **Strum/Janus/Gunderson**	**CLAY** COUNTY	PROJECT NUMBER **HSIPX-018-2(142)--3L-21**	SHEET NUMBER **E.5**

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SR4NW - Profile 1

STA 19591+25.00 (SR4W)
BEGIN CONSTRUCTION

STA 19591+56.48 (SR4W)
BEGIN PAVING

Sta. 19592+45 and 19592+50
Install 29" x 18" (24") x 36' LCP
F.L. = Lt. 1320.78
Rt. 1321.21

STA 19592+48
2.0'x2.0'x27.8' RCB
REMOVE

18"x34'
C.M.P.
U.A.C.

24"x30'
Conc. Pipe
U.A.C.

24"x33'
C.M.P.
U.A.C.

POB 19588+96.47

19590+00
19595+00
19600+00
19605+00
19610+00

+21 PROP. TYPE "B" ENT.
+50 PROP. TYPE "B" ENT.
+62 PROP. TYPE "B" ENT.
+67 PROP. TYPE "B" ENT.
+11 PROP. TYPE "B" ENT.
+43 PROP. TYPE "B" ENT.

+17 PROP. TYPE "B" ENT.
+67 PROP. TYPE "B" ENT.
+07 PROP. TYPE "B" ENT.
+75 PROP. TYPE "B" ENT.
+93 PROP. TYPE "B" ENT.
+12 PROP. TYPE "B" ENT.

4th Ave W
4th Ave W
4th Ave W

W 37th St
W 43rd St

71

19609+35.74 (SR4W)
9609+35.74 (SRW43)

Δ = 07°23'22.45" (LT)
T = 32.29'
L = 64.49'
R = 500.00'
E = 1.04'
e = ___
L = ___
x = ___

Δ = 07°31'11.24" (RT)
T = 32.86'
L = 65.62'
R = 500.00'
E = 1.08'
e = ___
L = ___
x = ___

STA 19610+00.92 (SR4W)
END PAVING

STA 19612+03.48 (SR
END CONSTRUCTION

PC 19610+61.61
PT 19611+26.08
PI 19611+70.72
PC 19611+93.88
PT 19612+03.48
POE 19613+27.11

Type "B" Ent.
U.A.C.

0 100
FEET

0.24% +21 PROP. TYPE "B" ENT.
3.2% +50 PROP. TYPE "B" ENT.
5.3% TYPE "B" ENT. +62 PROP.
5.9% +87 PROP. TYPE "B" ENT.
2.9% +14 PROP. TYPE "B" ENT.
4.5% +56 PROP. TYPE "B" ENT.

19591+25.00
1323.56

VPI = +50.00
EL = 1324.50
L = 150.00'
K = 201

VPI = +00.00
EL = 1330.30
L = 150.00'
K = 151

VPI = +00.00
EL = 1332.85
L = 150.00'
K = 615

19612+03.51
1333.86

VPI = +75.00
EL = 1324.50
L = 150.00'
K = 455

VPI = +00.00
EL = 1325.90
L = 150.00'
K = 272

VPI = +75.00
EL = 1330.10
L = 150.00'
K = 112

+0.75% +0.00% +0.00% +0.33% +0.33% +0.88% +0.88% -0.11% -0.11% +1.22% +1.22% +0.98%

6% +17 PROP. TYPE "B" ENT.
4.9% TYPE "B" ENT. +67 PROP.
2.2% +07 PROP. TYPE "B" ENT.
2.6% +75 PROP. TYPE "B" ENT.
0.7% +93 PROP. TYPE "B" ENT.
2% +12 PROP. TYPE "B" ENT.

1360 1350 1340 1330 1320 1310 1300 1290 1280 1270

1324.11 1324.25 1324.36 1324.44 1324.48 1324.50 1324.50 1324.50

Δ = 09°25'39.76" (LT)
T = 20.61'
L = 41.14'
R = 250.00'
E = 0.85'
e = ___
L = ___
x = ___

4th Ave W

W 37th St

71

20080+00

+85 PROP. TYPE "B" ENT.

PC 20080+55.78

PT 20080+96.91

PT 20080+76.39

POE 20081+66.86

POB 20076+56.47

STA 20076+68.47 (SR37)
BEGIN PAVING

STA 20076+82
18"x57'
Conc. Pipe
Extend LT
with 18: x 8' RCP
Lt. 1321.26
F.L. = Rt. 1321.35
Other 1321.27

+20 PROP. TYPE "B" ENT.

+75 PROP. TYPE "B" ENT.

18"x60'
Conc. Pipe
U.A.C.

STA 20081+54.86 (SR37)
END PAVING

0 50
FEET

W 37TH ST

0.87%
+18 PROP. TYPE "B" ENT.

TIE IN
STA 20076+68.47
EL 1324.16

VPI = +95.00
EL = 1328.22
L = 120.00'
K = 62

+1.24%
-0.69%
-0.69%
+1.66%

TIE IN
STA 20081+54.86
EL 1328.40

VPI = +00.24
EL = 1327.50
L = 90.00'
K = 38

0.59%
+45 PROP. TYPE "B" ENT.

2.5%
+19 PROP. TYPE "B" ENT.

1345 1340 1335 1330 1325 1320 1315 1310 1305 1300

1324.24 1324.55 1324.86 1325.17 1325.49 1325.80 1326.11 1326.42 1326.73 1327.04 1327.35 1327.65 1327.85 1327.95 1327.95 1327.84 1327.72 1327.76 1327.96 1328.32

19998+00 19999+00 20000+00 20001+00 20002+00 20003+00 20004+00 20005+00 20006+00 20007+00 20008+00 20009+00 20010+00 20011+00

FILE NO.	ENGLISH	DESIGN TEAM Strum/Janus/Gunderson	CLAY COUNTY	PROJECT NUMBER HSIPX-018-2(142)--3L-21	SHEET NUMBER E.7

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Meadow TWP.
T-97N R-36W
SEC. 31

Meadow TWP.
T-97N R-36W
SEC. 30

320th St

STA 24+18.94 (SR2)
OFF 60.56' LT

STA 24+12.11 (SR2)
OFF 41.12' LT

Type "B" Ent.
U.A.C.

+32 Proposed
Type "B" Ent.

STA 24+42.59 (SR2)
OFF 87.37' LT

STA 24+50.96 (SR2)
OFF 39.87' LT

RET_ENT24D

RET_ENT24C

23+00

24+00

25+00

26+00

R 150

STA 24+04.08 (SR2)
OFF 31.34' LT

R 30

STA 24+59.27 (SR2)
OFF 29.98' LT

2nd Ave

R 110

R 35

STA 23+50.65 (SR2)
OFF 17.50' LT

STA 24+86.07 (SR2)
OFF 17.50' LT

37"x23"x112'
ARCHED Conc. Pipe
U.A.C.

0 FEET 50

2nd Ave

TIE IN
STA 0+47.95
EL 1338.53

TIE IN
3+10.12
1336.36

2+90.09
1337.07

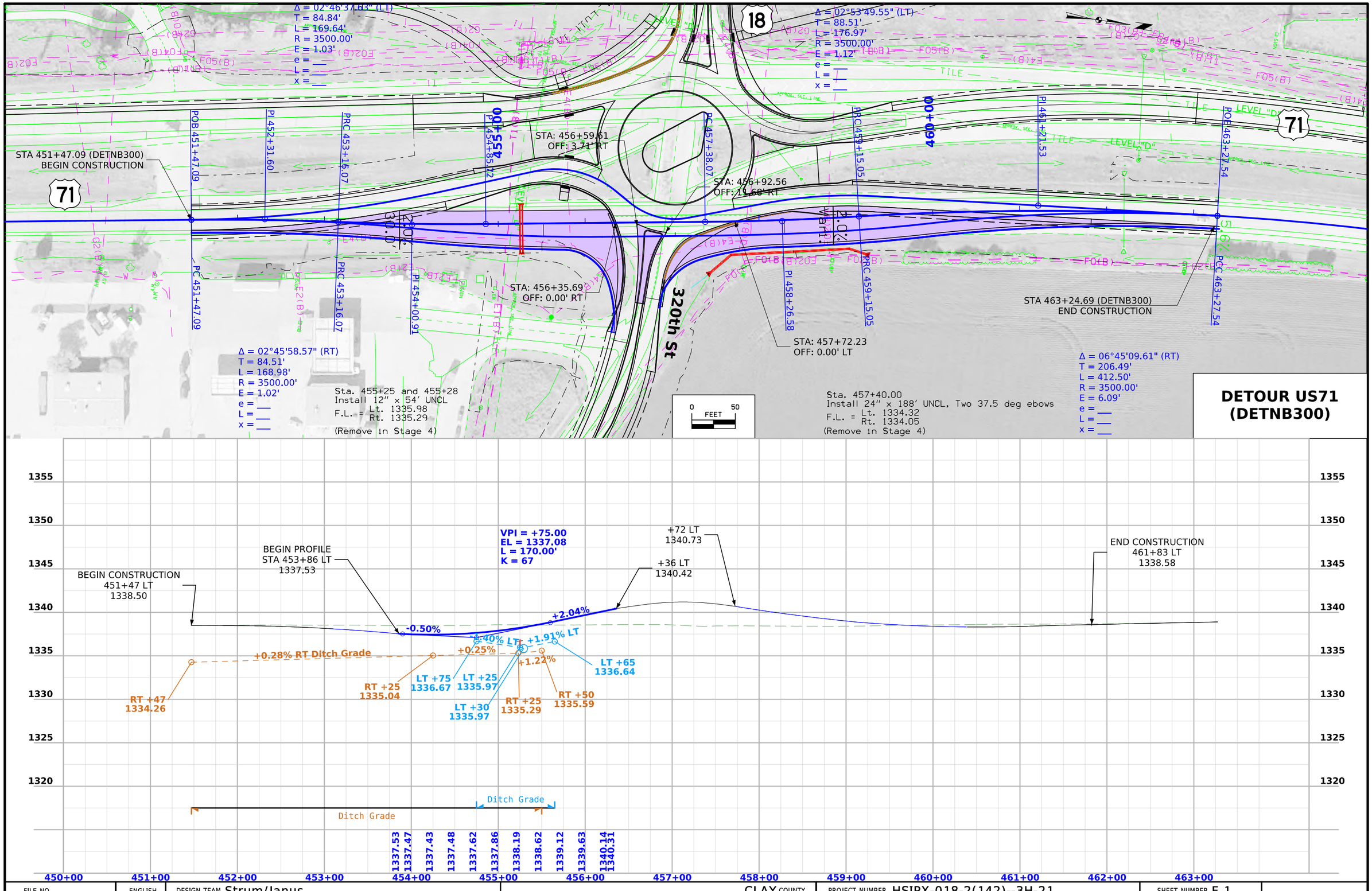
+32 Proposed
Type "B" Ent.

1355
1350
1345
1340
1335
1330
1325
1320
1315
1310

18+00 19+00 20+00 21+00 22+00 23+00 24+00 25+00 26+00 27+00 28+00 29+00 30+00 31+00 32+00

FILE NO.	ENGLISH	DESIGN TEAM Strum/Janus	CLAY COUNTY	PROJECT NUMBER HSIPX-018-2(142)--3H-21	SHEET NUMBER E.8

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FILE NO.	ENGLISH	DESIGN TEAM Strum/Janus	CLAY COUNTY	PROJECT NUMBER HSIPX-018-2(142)--3H-21	SHEET NUMBER F.1

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SURVEY INDEX

County: Clay
PIN: 23-21-018-020
Project Number: HSIPX-018-2(142)--3L-21
Location: North US 71 US18 Intersection in Spencer
Type of Work: Round A-Bout
Project Directory: 2101802023

Survey Personnel

Daniel Duncan – Survey Party Chief
Paul Harry – Survey Party Chief
Robert Fredrickson – Assistant Survey Party Chief

Date(s) of Survey

Begin Date	02/29/2024	Begin Date Add'l Survey	12/03/2024
End Date	04/02/2024	End Date Add'l Survey	12/12/2024

General Information

This survey is for US 18 US 71 North Intersection in Spencer Iowa. This survey request was for a Round A-Bout at this intersection. This project is a Full Field DTM survey.

Utility Information

For logging data and other utility details see Utility Survey and Ownership Report in the Utility folder of the PrelimSurvey project directory.

Project Control

Coordinates were determined for primary project control points by conducting concurrent six-hour static observations. Post processing is constrained to nearby Iowa Real Time Network reference stations. For additional details of the control survey, contact the Preliminary Survey department.

PROJECT DATUM: NAD83(2011) for EPOCH 2010.00 (IaRTN 2019 ADJUSTMENT)
COORDINATE SYSTEM: IOWA REGIONAL COORDINATE SYSTEM ZONE 01 (U.S. SURVEY FOOT)
VERTICAL DATUM: NAVD88
GEOID MODEL: 2018u3

Alignment Information

Horizontal alignments for this project were provided by the District 3 Land Survey Office.

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) for EPOCH 2010.00 (IaRTN 2019 Adjustment) - Iowa RCS Zone 01 (U.S. Survey Foot)

VERT. DATUM: NAVD88 - Geoid Model: 2018u3

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) for EPOCH 2010.00 (IaRTN 2019 Adjustment)
Ia. Regional Coordinate System Zone 01 (U.S. Survey Foot)
VERT. DATUM: NAVD88
Geoid Model: 2018u3

Point Name	Northing	Easting	Elevation	Code-Description
7034	9588735.20	11513395.58	1332.44	CP FND CLAY CO GPS CONTROL POINT AS DESCRIBED IN GOOD CONDITION
7038	9604529.12	11526413.10	1374.75	CP FND CLAY CO GPS CONTROL POINT AS DESCRIBED IN GOOD CONDITION
7052	9588741.07	11542038.91	1316.46	CP FND CLAY CO GPS CONTROL POINT AS DESCRIBED IN GOOD CONDITION
7089	9584230.48	11512621.90	1335.57	CP FND CLAY CO GPS CONTROL POINT AS DESCRIBED IN GOOD CONDITION
210180774	9594248.27	11525527.43	1333.08	CP SET FENO MONUMENT 270ft west of the Iowa State Patrol Driveway on North Side of US18
210180787	9588445.56	11527218.79	1327.65	CP SET FENO MONUMENT 330ft South of E 30th St along West side of the Bike Path
E18	9580940.21	11515583.45	1331.23	CP FND NGS SECOND ORDER CLASS 0 VERTICAL MARK AS DESCRIBED IN GOOD CONDITION

ALIGNMENT COORDINATES

Name	Location	Point on Tangent			Begin Spiral			Begin Curve			Simple Curve PI or Master PI of SCS			End Curve			End Spiral		
		Station	Coordinates		Station	Coordinates		Station	Coordinates		Station	Coordinates		Station	Coordinates		Station	Coordinates	
			Y (Northing)	X (Easting)		Y (Northing)	X (Easting)		Y (Northing)	X (Easting)		Y (Northing)	X (Easting)		Y (Northing)	X (Easting)		Y (Northing)	X (Easting)
1	SUR071NB	73+70.000	9590607.62	11527252.30															
2	SUR071NB				A 60+39.990	9594551.01	11526645.05				A 61+66.664	9594676.21	11526625.77				A 62+29.990	9594739.10	11526618.21
3	SUR071NB							A 62+29.990	9594739.10	11526618.21	A 64+42.497	9594950.08	11526592.85	A 66+54.227	9595162.50	11526598.90			
4	SUR071NB				A 66+54.227	9595162.50	11526598.90				A 67+17.567	9595225.82	11526600.70				A 68+44.227	9595352.25	11526608.50
6	SUR071NB							A 70+63.299	9595570.91	11526621.99	A 72+96.387	9595803.55	11526636.34	A 75+29.331	9596036.64	11526636.49			
8	SUR071NB	A 81+80.751	9596688.06	11526636.89															
8	SUR071NB	A 106+53.645	9599160.96	11526637.95															
1	SUR071SB	75+14.140	9590740.97	11527165.72															
2	SUR071SB				A 58+85.544	9594397.59	11526539.81				A 60+12.218	9594522.45	11526518.44				A 60+75.544	9594585.20	11526509.83
3	SUR071SB							A 60+75.544	9594585.20	11526509.83	A 63+40.235	9594847.43	11526473.85	A 66+03.428	9595111.82	11526486.52			
4	SUR071SB				A 66+03.428	9595111.82	11526486.52				A 66+66.767	9595175.09	11526489.55				A 67+93.443	9595301.35	11526499.81
6	SUR071SB							A 70+11.368	9595518.56	11526517.46	A 73+18.933	9595825.11	11526542.36	A 76+26.167	9596132.68	11526542.54			
8	SUR071SB	A 81+81.491	9596688.00	11526542.86															
8	SUR071SB	A 109+92.756	9599499.27	11526544.31															
1	SUR018	607+25.600	9594181.36	11523871.92															
1	SUR018	634+26.203	9594207.24	11526572.40															
1	SUR320	156+93.220	9594208.28	11526697.83															
2	SUR320							157+45.714	9594208.11	11526750.32	158+52.495	9594207.77	11526857.10	159+55.042	9594157.51	11526951.32			
4	SUR320							160+84.283	9594096.69	11527065.35	161+85.267	9594049.71	11527154.74	162+82.310	9594049.62	11527255.73			
5	SUR320	179+46.464	9594058.44	11528919.86															
1	ML071NB	047+02.660 R1	9594165.36	11526689.82															
2	ML071NB	047+25.000 R1	9593251.34	11526845.19															
3	ML071NB							051+47.086 R1	9593668.51	11526780.95	052+92.150 R1	9593811.88	11526758.87	054+36.200 R1	9593947.77	11526708.10			
5	ML071NB							055+46.420 R1	9594051.02	11526669.53	055+99.492 R1	9594100.74	11526650.95	056+45.317 R1	9594146.22	11526678.31			
7	ML071NB							056+67.656 R1	9594165.36	11526689.82	057+05.834 R1	9594198.08	11526709.50	057+39.117 R1	9594234.20	11526697.13			
9	ML071NB							058+28.601 R1	9594318.85	11526668.14	058+92.422 R1	9594379.23	11526647.47	059+55.607 R1	9594442.82	11526642.00			
11	ML071NB							063+50.050 R1	9594835.81	11526608.25	065+13.729 R1	9594998.89	11526594.24	066+77.051 R1	9595162.50	11526598.90			
12	ML071NB				066+77.051 R1	9595162.50	11526598.90				067+40.391 R1	9595225.82	11526600.70				63+27.230 R2	9595352.25	11526608.50
14	ML071NB							65+46.302 R2	9595570.91	11526621.99	67+79.390 R2	9595803.55	11526636.34	70+12.333 R2	9596036.64	11526636.49			
16	ML071NB	76+63.754 R2	9596688.06	11526636.89															
16	ML071NB	101+36.648 R2	9599160.96	11526637.95															
1	ML071SB	050+00.000 R1	9593524.74	11526689.22															
2	ML071SB							054+64.347 R1	9593982.43	11526610.88	055+23.160 R1	9594040.40	11526600.95	055+81.459 R1	9594094.61	11526578.15			
4	ML071SB							056+69.574 R1	9594175.83	11526543.97	057+13.822 R1	9594216.61	11526526.81	057+50.726 R1	9594253.35	11526551.48			
6	ML071SB							057+75.575 R1	9594273.97	11526565.34	058+27.845 R1	9594317.37	11526594.48	058+73.166 R1	9594367.37	11526579.24			
8	ML071SB							059+82.298 R1	9594471.76	11526547.43	061+47.483 R1	9594629.77	11526499.28	063+11.173 R1	9594794.63	11526488.90			
9	ML071SB							063+11.173 R1	9594794.63	11526488.90	064+70.017 R1	9594953.16	11526478.92	066+28.536 R1	9595111.82	11526486.52			
10	ML071SB				066+28.536 R1	9595111.82	11526486.52				066+91.876 R1	9595175.09	11526489.55				068+18.536 R1	9595301.35	11526499.81
12	ML071SB							070+36.461 R1	9595518.56	11526517.46	073+44.026 R1	9595825.11	11526542.36	076+51.260 R1	9596132.68	11526542.54			
14	ML071SB	082+06.584 R1	9596688.00	11526542.86															
14	ML071SB	110+17.849 R1	9599499.27	11526544.31															
1	ML018EB	620+00.000 R1	9594193.57	11525146.26															
2	ML018EB							629+18.818 R1	9594202.38	11526065.03	629+65.114 R1	9594202.82	11526111.33	630+11.389 R1	9594200.88	11526157.58			
4	ML018EB							631+52.251 R1	9594194.99	11526298.32	631+91.660 R1	9594193.34	11526337.70	632+30.912 R1	9594197.76	11526376.86			
6	ML018EB							633+15.643 R1	9594207.27	11526461.05	633+80.702 R1	9594214.56	11526525.70	634+34.876 R1	9594164.37	11526567.09			
1	ML018WB	607+25.600 R1	9594181.36	11523871.92															
2	ML018WB							629+34.801 R1	9594202.53	11526081.02	630+00.350 R1	9594203.16	11526146.56	630+65.872 R1	9594207.09	11526211.99			
4	ML018WB							632+49.303 R1	9594218.09	11526395.10	633+51.948 R1	9594224.24	11526497.56	634+51.987 R1	9594268.87	11526589.99			
1	SR320EB							156+50.088 R1	9594154.60	11526647.09	157+52.485 R1	9594194.99	11526741.19	158+50.576 R1	9594185.19	11526843.11			
2	SR320EB							158+50.576 R1	9594185.19	11526843.11	159+24.955 R1	9594178.07	11526917.15	159+98.579 R1	9594153.10	11526987.21			
4	SR320EB							161+74.587 R1	9594093.99	11527152.99	163+06.340 R1	9594049.74	11527277.09	164+35.431 R1	9594050.44	11527408.85			
5	SR320EB	170+00.000 R1	9594053.43	11527973.41															
1	SR320WB							156+60.538 R1	9594247.89	11526674.36	157+19.501 R1	9594200.37	11526709.27	157+70.149 R1	9594198.96	11526768.21			
3	SR320WB							158+55.723 R1	9594196.92	11526853.76	159+28.083 R1	9594195.20	11526926.10	159+98.432 R1	9594164.93	11526991.83			
5	SR320WB							161+07.784 R1	9594119.19	11527091.15	162+74.264 R1	9594049.55	11527242.37	164+35.431 R1	9594050.44	11527408.85			
6	SR320WB	170+00.000 R1	9594053.43	11527973.41															
Roundabout																			
1	RACIRCLE							000+00.000 R1	9594158.11	11526666.15	0+00.00			004+27.257 R1	9594158.11	11526666.15			
Roundabout Returns																			
1	RETA							10+00.000 R1	9594217.38	11526772.06	10+21.705 R1	9594217.89	11526750.36	10+42.325 R1	9594229.60	11526732.08			
2	RETA							10+42.325 R1	9594229.60	11526732.08	10+51.171 R1	9594234.38	11526724.64	10+59.699 R1	9594241.98	11526720.11			
3	RETA							10+59.699 R1	9594241.98	11526720.11	11+19.702 R1	9594293.52	11526689.38	11+79.002 R1	9594351.31	11526673.24			
1	RETB							20+00.000 R1	9594376.61	11526561.27	20+50.460 R1	9594328.34	11526575.98	20+94.357 R1	9594286.18	11526548.24			
2	RETB							20+94.357 R1	9594286.18	11526548.24	21+10.905 R1	9594272.36	11526539.15	21+26.319 R1	9594266.69	11526523.60			
3	RETB							21+26.319 R1	9594266.69	11526523.60	21+56.620 R1	9594256.31	11526495.13	21+86.816 R1	9594250.13	11526465.47			
1	RETC							30+00.000 R1	9594188.75	11526461.94	30+24.737 R1	9594191.52	11526486.52	30+47.890 R1	9594179.54	11526508.16			
2	RETC							30+47.890 R1	9594179.54	11526508.16	30+56.642 R1	9594175.30	11526515.82	30+65.085 R1	9594168.11	11526520.81			
3	RETC							30+65.085 R1	9594168.09	11526520.82	31+27.235 R1	9594117.03	11526556.26	31+88.603 R1	9594058.28	11526576.52			

ALIGNMENT COORDINATES

Name	Location	Point on Tangent			Begin Spiral			Begin Curve			Simple Curve PI or Master PI of SCS			End Curve			End Spiral		
		Station	Coordinates		Station	Coordinates		Station	Coordinates		Station	Coordinates		Station	Coordinates		Station	Coordinates	
			Y (Northing)	X (Easting)		Y (Northing)	X (Easting)		Y (Northing)	X (Easting)		Y (Northing)	X (Easting)		Y (Northing)	X (Easting)		Y (Northing)	X (Easting)
1	RETD							40+00.000 R1	9594043.40	11526687.85	40+46.972 R1	9594087.40	11526671.41	40+88.568 R1	9594129.36	11526692.53			
2	RETD							40+88.568 R1	9594129.41	11526692.56	40+98.160 R1	9594137.97	11526696.88	41+07.348 R1	9594143.41	11526704.77			
3	RETD							41+07.348 R1	9594143.41	11526704.77	41+52.909 R1	9594169.25	11526742.30	41+95.726 R1	9594169.43	11526787.86			
Roundabout Truck Apron																			
1	RETA_TA							0+00.000	9594216.64	11526802.89	0+46.958	9594217.76	11526755.94	0+88.764	9594252.44	11526724.28			
2	RETA_TA							0+88.764	9594252.44	11526724.28	1+12.973	9594270.31	11526707.95	1+37.062	9594290.73	11526694.94			
1	RETB_TA							0+00.000	9594331.88	11526565.10	0+32.976	9594301.37	11526552.57	0+63.968	9594283.25	11526525.02			
2	RETB_TA							0+63.826	9594283.33	11526525.14	1+29.003	9594247.51	11526470.86	1+92.056	9594237.39	11526406.61			
1	RETC_TA	0+00.000	9594183.95	11526419.46															
2	RETC_TA							0+27.424	9594180.39	11526446.65	0+54.149	9594176.92	11526473.15	0+79.653	9594160.69	11526494.39			
3	RETC_TA							0+79.653	9594160.69	11526494.39	1+70.348	9594105.62	11526566.45	2+54.180	9594017.68	11526588.62			
1	RETD_TA							0+00.000	9594143.41	11526704.77	0+61.102	9594168.37	11526760.54	1+19.854	9594164.80	11526821.54			
W 37th St																			
1	SRW37	076+56.473 R1	9591368.39	11526546.18															
2	SRW37							080+55.776 R1	9591370.38	11526945.48	080+76.390 R1	9591370.48	11526966.09	080+96.912 R1	9591373.96	11526986.41			
3	SRW37	081+66.860 R1	9591385.76	11527055.35															
1	RETA37							0+00.000	9591380.70	11526608.34	0+50.181	9591380.45	11526558.16	0+78.721	9591430.63	11526558.09			
1	RETB37							0+00.000	9591454.72	11527031.38	0+60.696	9591394.89	11527041.62	0+94.939	9591385.34	11526981.68			
1	RETC37							0+00.000	9591361.24	11526982.85	0+63.613	9591370.62	11527045.77	1+00.700	9591307.91	11527056.50			
1	RETD37							0+00.000	9591326.56	11526558.23	0+29.892	9591356.45	11526558.19	0+47.015	9591356.60	11526588.09			
4th Ave W																			
1	SR4W	588+96.468 R1	9591066.58	11526546.59															
2	SR4W							610+61.595 R1	9593231.70	11526543.63	610+93.883 R1	9593263.99	11526543.58	611+26.081 R1	9593296.01	11526539.38			
4	SR4W							611+37.857 R1	9593307.68	11526537.85	611+70.716 R1	9593340.26	11526533.58	612+03.480 R1	9593373.12	11526533.61			
5	SR4W	613+87.127 R1	9593556.77	11526533.78															
W 43rd St/ 5th Ave W																			
1	SRW43	609+35.793 R1	9593105.90	11526543.85															
2	SRW43							614+81.267 R1	9593131.97	11525999.00	616+70.104 R1	9593141.00	11525810.38	617+83.946 R1	9593329.82	11525808.57			
3	SRW43	626+54.000 R1	9594199.84	11525800.23															
1	RETA4W							0+00.000	9593171.01	11526531.71	0+52.522	9593118.49	11526531.78	0+80.999	9593121.00	11526479.32			
1	RETB4W							0+00.000	9593097.19	11526474.76	0+57.119	9593094.46	11526531.81	0+91.297	9593037.34	11526531.89			
1	RETC4W							0+00.000	9594187.05	11525718.57	0+16.667	9594187.21	11525735.24	0+32.175	9594177.34	11525748.66			
2	RETC4W							0+32.175	9594177.34	11525748.66	0+60.972	9594160.29	11525771.87	0+87.459	9594132.35	11525778.87			
3	RETC4W							0+87.459	9594132.35	11525778.87	1+30.183	9594090.92	11525789.27	1+72.509	9594048.19	11525789.68			
1	RETD4W							0+00.000	9594087.06	11525813.31	0+25.022	9594112.08	11525813.07	0+49.337	9594135.11	11525822.85			
2	RETD4W							0+49.337	9594135.11	11525822.85	0+86.654	9594169.46	11525837.44	1+18.592	9594178.54	11525873.63			
3	RETD4W							1+18.592	9594178.54	11525873.63	1+61.316	9594188.94	11525915.07	2+03.643	9594189.35	11525957.79			
2nd Ave																			
1	SR2	22+49.994 R1	9593651.29	11527371.03															
1	SR2	26+50.000 R1	9594051.29	11527368.88															
1	RETC2							0+00.000	9594034.21	11527295.38	0+25.022	9594030.67	11527320.15	0+46.400	9594008.72	11527332.16			
2	RETC2							0+46.400	9594008.72	11527332.16	0+54.059	9594002.00	11527335.84	0+61.715	9593995.10	11527339.17			
Entrance 32(																			
1	ENT7163	0+00.000	9594051.29	11527368.88															
1	ENT7163	1+00.000	9594151.29	11527368.35															
Entrance W 3																			
1	ENT37RT_01	0+00.000	9591369.20	11526710.24															
1	ENT37RT_01	0+53.900	9591315.31	11526710.21															
1	ENT37LT_02	0+00.000	9591369.53	11526775.09															
1	ENT37LT_02	0+46.838	9591416.37	11526774.86															
1	ENT37RT_03	0+00.000	9591369.97	11526864.22															
1	ENT37RT_03	0+51.982	9591317.99	11526864.48															
Entrance 4th																			
1	ENT4WLT_597	0+00.000	9591890.87	11526545.46															
1	ENT4WLT_597	0+52.635	9591890.59	11526492.83															
1	ENT4WRT_598_1	0+00.000	9591987.58	11526545.33															
1	ENT4WRT_598_1	0+46.976	9591987.83	11526592.30															
1	ENT4WLT_598	0+00.000	9592019.87	11526545.29															
1	ENT4WLT_598	0+53.158	9592019.59	11526492.13															
1	ENT4WRT_598_2	0+00.000	9592037.33	11526545.26															
1	ENT4WRT_598_2	0+45.064	9592037.40	11526590.33															
1	ENT4WLT_599	0+00.000	9592132.39	11526545.13															

ALIGNMENT COORDINATES

Name	Location	Point on Tangent			Begin Spiral			Begin Curve			Simple Curve PI or Master PI of SCS			End Curve			End Spiral		
		Station	Coordinates		Station	Coordinates		Station	Coordinates		Station	Coordinates		Station	Coordinates		Station	Coordinates	
			Y (Northing)	X (Easting)		Y (Northing)	X (Easting)		Y (Northing)	X (Easting)		Y (Northing)	X (Easting)		Y (Northing)	X (Easting)		Y (Northing)	X (Easting)
1	ENT4WLT_599	0+46.210	9592132.33	11526498.92															
1	ENT4WRT_599	0+00.000	9592176.65	11526545.07															
1	ENT4WRT_599	0+46.551	9592176.71	11526591.62															
1	ENT4WRT_600	0+00.000	9592244.93	11526544.98															
1	ENT4WRT_600	0+42.890	9592244.98	11526587.87															
1	ENT4WLT_601	0+00.000	9592337.51	11526544.85															
1	ENT4WLT_601	0+50.000	9592337.44	11526494.85															
1	ENT4WRT_604	0+00.000	9592663.04	11526544.40															
1	ENT4WRT_604	0+44.230	9592663.10	11526588.63															
1	ENT4WLT_605_1	0+00.000	9592681.42	11526544.38															
1	ENT4WLT_605_1	0+50.000	9592681.35	11526494.38															
1	ENT4WLT_605_2	0+00.000	9592712.84	11526544.34															
1	ENT4WLT_605_2	0+45.000	9592712.81	11526499.34															
1	ENT4WRT_608	0+00.000	9592881.76	11526544.10															
1	ENT4WRT_608	0+50.000	9592881.82	11526594.10															
Entrance 5t																			
1	ENT9625	0+00.000	9594050.84	11525801.66															
1	ENT9625	3+00.000	9594053.72	11526101.64															
Spiltter Is																			
1	MED_S							0+00.000	9594048.92	11526654.87	0+36.968	9594083.87	11526642.82	0+71.872	9594119.73	11526651.79			
2	MED_S							0+71.872	9594119.73	11526651.79	0+75.662	9594123.41	11526652.71	0+76.213	9594122.09	11526649.16			
3	MED_S							0+76.213	9594122.09	11526649.16	1+07.437	9594111.17	11526619.90	1+36.379	9594120.47	11526590.10			
4	MED_S							1+36.379	9594120.47	11526590.10	1+44.867	9594122.91	11526581.97	1+45.423	9594115.09	11526585.26			
6	MED_S							1+61.542	9594100.23	11526591.51	1+94.892	9594069.49	11526604.45	2+28.154	9594037.37	11526613.40			
7	MED_S	2+71.210	9594048.92	11526654.87															
1	MED_E							0+00.000	9594187.07	11526722.51	0+60.728	9594193.49	11526782.90	1+21.044	9594187.68	11526843.35			
2	MED_E							1+21.044	9594187.68	11526843.35	1+86.862	9594181.38	11526908.87	2+52.161	9594161.09	11526971.48			
3	MED_E							2+52.161	9594161.09	11526971.48	2+88.341	9594149.93	11527005.90	2+61.089	9594166.60	11526973.79			
5	MED_E							2+62.139	9594167.09	11526972.86	2+77.052	9594173.98	11526959.63	2+91.947	9594179.69	11526945.85			
6	MED_E							2+91.947	9594179.69	11526945.85	3+39.034	9594193.30	11526900.78	3+85.551	9594194.42	11526853.70			
8	MED_E							4+71.125	9594196.46	11526768.15	4+94.763	9594197.03	11526744.52	5+17.827	9594206.34	11526722.80			
9	MED_E							5+17.827	9594206.34	11526722.80	5+20.762	9594207.50	11526720.10	5+21.717	9594204.56	11526720.01			
10	MED_E							5+21.717	9594204.56	11526720.01	5+28.484	9594197.80	11526719.80	5+35.231	9594191.12	11526718.69			
11	MED_E							5+35.231	9594191.12	11526718.69	5+39.835	9594186.58	11526717.94	5+41.677	9594187.07	11526722.51			
1	MED_N							0+00.000	9594292.57	11526654.90	0+08.486	9594289.58	11526662.84	0+09.043	9594297.61	11526660.09			
3	MED_N							0+27.979	9594314.16	11526654.42	0+60.671	9594345.09	11526643.83	0+93.281	9594377.07	11526637.09			
5	MED_N							1+37.184	9594368.21	11526594.09	1+74.190	9594332.52	11526603.87	2+09.125	9594297.28	11526592.57			
6	MED_N							2+09.125	9594297.28	11526592.57	2+12.930	9594293.66	11526591.41	2+13.473	9594294.76	11526595.05			
7	MED_N							2+13.473	9594294.66	11526594.74	2+45.354	9594304.13	11526625.18	2+74.815	9594292.57	11526654.90			
1	MED_W	0+00.000	9594202.62	11526271.37															
2	MED_W							0+27.386	9594198.76	11526298.48	0+33.754	9594197.86	11526304.78	0+40.121	9594197.12	11526311.11			
3	MED_W							0+40.121	9594197.12	11526311.11	0+72.962	9594196.56	11526343.94	1+05.711	9594200.25	11526376.58			
5	MED_W							1+90.441	9594209.75	11526460.77	2+19.217	9594212.98	11526489.37	2+46.968	9594203.14	11526516.41			
6	MED_W							2+46.968	9594203.14	11526516.41	2+49.903	9594202.13	11526519.16	2+50.858	9594205.07	11526519.09			
7	MED_W							2+50.858	9594205.07	11526519.09	2+63.246	9594217.45	11526518.77	2+75.508	9594229.54	11526521.47			
8	MED_W							2+75.508	9594229.54	11526521.47	2+81.205	9594235.10	11526522.72	2+82.648	9594233.69	11526517.19			
9	MED_W							2+82.648	9594233.69	11526517.19	3+39.831	9594219.59	11526461.78	3+96.674	9594216.16	11526404.70			
11	MED_W							4+06.142	9594215.59	11526395.27	4+06.152	9594215.59	11526395.26	4+06.162	9594215.59	11526395.25			
13	MED_W							5+30.038	9594208.16	11526271.59	5+57.592	9594206.51	11526244.09	5+38.228	9594202.62	11526271.37			
1	MED_CIRCLE							0+00.000	9594179.65	11526613.45	7+63.404	9593564.20	11527065.12	0+61.784	9594202.45	11526646.29			
3	MED_CIRCLE							0+98.779	9594233.38	11526625.99	1+03.964	9594237.72	11526623.15	1+08.346	9594237.89	11526617.97			
5	MED_CIRCLE							1+46.531	9594239.16	11526579.80	1+56.825	9594239.51	11526569.51	1+57.718	9594231.21	11526575.61			
Trail																			
1	SW71_S	0+00.000	9593747.77	11526527.51															
2	SW71_S							0+72.249	9593819.01	11526515.46	1+56.210	9593901.79	11526501.44	2+31.234	9593969.77	11526550.72			
4	SW71_S							2+50.861	9593985.66	11526562.24	2+90.618	9594017.85	11526585.58	3+23.175	9594054.38	11526569.88			
1	SW71_N	0+00.000	9594256.48	11526489.42															
2	SW71_N							2+15.532	9594456.32	11526408.68	2+37.482	9594476.67	11526400.46	2+59.257	9594498.32	11526396.85			
4	SW71_N	2+94.218	9594532.80	11526391.09															
4	SW71_N	3+52.227	9594590.02	11526381.54															
Entrance 2nd Ave																			
1	ENT24	+00.00	9593826.58	11527020.11															
1	ENT24	3+50.00	9593833.02	11527370.05															
1	RET_ENT24C							+00.00	9593887.26	11527352.26	+16.31	9593870.96	11527352.35	+30.52	9593860.40	11527339.92			
1	RET_ENT24D							+00.00	9593819.90	11527309.56	+10.97	9593820.11	11527320.52	+21.03	9593813.19	11527329.03			

SPIRAL OR CIRCULAR CURVE DATA

Name	Chain	ΔSCS	Horizontal Alignment Data												Remarks
			Spiral Data							Curve Data					
			θS	Ls	Ts	Es	Xc	Yc	L.T.	S.T.	ΔC	T	L	R	E	
C1	SUR071NB	12°17'05.065"	01°54'00.000"	190	403.354	17.07	189.979	2.1	126.674	63.34	08°29'05.065"	212.507	424.237	2865	7.871	
C2	SUR071NB										03°29'42.841"	233.088	466.031	7639	3.555	
C1	SUR071SB	14°21'27.618"	01°54'00.000"	190	455.895	23.164	189.979	2.1	126.674	63.34	10°33'27.619"	264.691	527.884	2865	12.202	
C2	SUR071SB										04°36'39.565"	307.565	614.799	7639	6.189	
C1	SUR320										27°53'30.438"	106.781	209.328	430	13.060	
C2	SUR320										27°40'24.707"	100.985	198.028	410	12.253	
C1	ML071NB										11°43'53.640"	145.064	289.113	1412	7.432	
C2	ML071NB										51°30'44.890"	53.072	98.897	110	12.134	
C3	ML071NB										49°55'53.694"	38.178	71.461	82	8.452	
C4	ML071NB										13°59'38.438"	63.820	127.006	520	3.902	
C5	ML071NB	12°17'05.065"	01°54'00.000"	190	403.354	17.07	189.979	2.1	126.674	63.34						
C6	ML071NB										03°29'42.841"	233.088	466.031	7639	3.555	
C1	ML071SB										13°06'19.704"	58.812	117.112	512	3.367	
C2	ML071SB										56°42'12.622"	44.248	81.152	82	11.177	
C3	ML071SB										50°49'57.395"	52.270	97.592	110	11.787	
C4		14°21'27.618"	01°54'00.000"	190	455.895	23.164	189.979	2.1	126.674	63.34						
C5	ML071SB										04°36'39.565"	307.565	614.799	7639	6.189	
C1	ML018EB										02°56'47.870"	46.296	92.571	1800	0.595	
C2	ML018EB										08°50'13.960"	39.409	78.662	510	1.520	
C3	ML018EB										56°55'47.445"	65.060	119.234	120	16.502	
C1	ML018WB										02°53'18.191"	65.549	131.071	2600	0.826	
C2	ML018WB										22°19'57.499"	102.645	202.685	520	10.030	
C1	SR320EB										28°43'04.046"	102.397	200.488	400	12.898	
C3	SR320EB										14°07'59.613"	74.379	148.003	600	4.593	
C2	SR320EB										19°55'37.303"	131.753	260.844	750	11.485	
C1	SR320WB										52°20'06.790"	58.963	109.611	120	13.704	
C2	SR320WB										23°21'42.772"	72.360	142.710	350	7.402	
C3	SR320WB										25°01'49.342"	166.480	327.647	750	18.255	
C1	RETA										31°17'28.372"	21.705	42.325	78	2.982	
C4	RETA										26°32'41.250"	8.846	17.374	38	1.029	
C4	RETA										15°11'24.581"	60.003	119.303	450	3.983	
C1	RETB										50°17'26.212"	50.460	94.357	108	11.254	
C7	RETB										36°37'33.905"	16.549	31.962	50	2.667	
C7	RETB										08°15'10.674"	30.301	60.497	420	1.092	
C1	RETC										35°24'18.407"	24.737	47.890	78	3.852	
C10	RETC										26°16'20.746"	8.752	17.195	38	1.008	
C2	RETC										15°43'36.520"	62.150	123.518	450	4.271	
C1	RETD										47°12'19.332"	46.972	88.568	108	9.814	
C2	RETD										28°41'39.336"	9.591	18.780	38	1.207	
C13	RETD										34°19'48.265"	45.560	88.378	148	6.876	
C1	RETA_TA										46°14'04.726"	46.958	88.764	110	9.604	
C2	RETA_TA										09°52'58.913"	24.209	48.298	280	1.045	
C1	RETB_TA										34°19'25.099"	32.976	63.968	107	4.976	
C2	RETB_TA										24°27'47.022"	65.035	128.088	300	6.968	
C1	RETC_TA										29°55'31.396"	26.725	52.230	100	3.510	
C6	RETC_TA										38°27'36.122"	90.694	174.526	260	15.364	
C1	RETD_TA										27°28'06.361"	61.102	119.854	250	7.359	
C1	SRW37										09°25'39.764"	20.615	41.136	250	0.848	
C1	RETA37										90°12'25.497"	50.181	78.721	50	20.839	
C1	RETB37										90°39'37.515"	60.696	94.939	60	25.346	
C1	RETC37										88°45'51.605"	63.613	100.700	65	25.948	
C1	RETD37										89°47'34.503"	29.892	47.015	30	12.350	
C1	SR4W										07°23'22.450"	32.288	64.486	500	1.041	
C2	SR4W										07°31'11.241"	32.858	65.623	500	1.079	
C1	SRW43										86°42'39.993"	188.837	302.679	200	75.063	
C1	RETA4W										92°49'05.644"	52.522	80.999	50	22.516	

SPIRAL OR CIRCULAR CURVE DATA

Name	Chain	ΔSCS	Horizontal Alignment Data												Remarks
			Spiral Data								Curve Data				
			θS	Ls	Ts	Es	Xc	Yc	L.T.	S.T.	ΔC	T	L	R	E	
C1	RETB4W										87°10'54.356"	57.119	91.297	60	22.841	
C1	RETC4W										36°52'11.632"	16.667	32.175	50	2.705	
C8	RETC4W										39°35'38.039"	28.797	55.284	80	5.025	
C8	RETC4W										13°32'10.330"	42.724	85.050	360	2.526	
C1	RETD4W										23°33'23.272"	25.022	49.337	120	2.581	
C11	RETD4W										52°54'26.399"	37.318	69.256	75	8.771	
C11	RETD4W										13°32'10.330"	42.724	85.050	360	2.526	
C1	RETC2										53°10'13.740"	25.022	46.400	50	5.912	
C2	RETC2										02°55'30.126"	7.659	15.315	300	0.098	
C1	MED_S										33°04'33.638"	36.968	71.872	125	5.373	
C2	MED_S										124°21'36.336"	3.790	4.341	2	2.285	
C3	MED_S										37°48'04.712"	31.224	60.166	91	5.197	
C4	MED_S										129°32'04.628"	8.488	9.043	4	5.383	
C5	MED_S										07°14'56.465"	33.351	66.612	527	1.055	
C1	MED_E										11°33'31.836"	60.728	121.044	600	3.065	
C14	MED_E										12°28'07.592"	65.818	131.117	603	3.584	
C2	MED_E										170°31'12.332"	36.181	8.928	3	33.305	
C3	MED_E										04°57'38.836"	14.914	29.808	344	0.323	
C14	MED_E										15°26'00.268"	47.087	93.604	348	3.176	
C4	MED_E										21°50'36.447"	23.638	46.702	123	2.260	
C5	MED_E										111°27'36.459"	2.935	3.891	2	1.552	
C6	MED_E										07°42'14.794"	6.767	13.513	101	0.228	
C7	MED_E										105°31'15.503"	4.604	6.446	4	2.284	
C1	MED_N										129°31'33.018"	8.486	9.043	4	5.382	
C2	MED_N										07°00'00.432"	32.692	65.303	535	0.999	
C3	MED_N										33°06'28.112"	37.006	71.941	125	5.383	
C4	MED_N										124°32'29.808"	3.805	4.347	2	2.298	
C5	MED_N										38°31'33.936"	31.881	61.342	91	5.410	
C1	MED_W										01°26'48.074"	6.368	12.735	504	0.040	
C28	MED_W										07°24'17.564"	32.840	65.589	508	1.061	
C2	MED_W										26°26'19.346"	28.776	56.527	123	3.334	
C3	MED_W										111°27'36.460"	2.935	3.891	2	1.552	
C4	MED_W										14°03'10.830"	12.387	24.650	101	0.760	
C5	MED_W										116°52'20.259"	5.697	7.139	4	3.186	
C6	MED_W										10°50'36.684"	57.184	114.026	603	2.708	
C7	MED_W										00°00'08.100"	0.010	0.021	523	0.000	
C8	MED_W										168°27'15.802"	27.554	8.190	3	24.909	
C1	MED_CIRCLE										176°59'54.841"	763.404	61.784	20	743.666	
C2	MED_CIRCLE										54°49'00.374"	5.185	9.567	10	1.264	
C3	MED_CIRCLE										128°11'04.785"	10.294	11.186	5	6.444	
Trail																
C1	SW71_S										45°32'44.854"	83.961	158.985	200	16.909	
C2	SW71_S										59°11'22.784"	39.757	72.314	70	10.502	
C1	SW71_N										12°31'33.974"	21.950	43.724	200	1.201	
Entrance 2nd																
C1	RET_ENT24C										49°57'23.480"		30.517	35	3.611	
C2	RET_ENT24C										18°30'12.801"				1.977	
C1	RET_ENT24D										40°10'04.474"		21.032	30	1.942	
C2	RET_ENT24D										29°03'19.465"				3.633	

JOHN C & RUTH VANERHAAG LIVING TRUST

3

NTRA PROPERTIES LLC

SummIt TWP.
T-97N R-37W
SEC. 36

PLA-COR INC

NE 1/4 NE 1/4 SEC. 36

3

NTRA PROPERTIES LLC

DANNY R & NANCY L BAILEY

4

CITY OF SPENCER

4

CITY OF SPENCER

TEMPORARY EASEMENT TO SHAPE

24"x4'
Conc. Pipe
Remove

Proposed
24" RCP

5053+09
℄ 148° (SBL71)

5053+54
℄ 146° (SBL71)

55+55
℄ 142° (SBL71)

53+09 (SBL71)
℄ 111°±EX.R/W

94+00 95+00 96+00 97+00 98+00 99+00 100+00 101+00 102+00 103+00 50+00 51+00 52+00 53+00 54+00 55+00

71

71

53+84.60 (SUR071SB)
BEGIN CONSTRUCTION

STA 51+47.09 (SUR071NB)
BEGIN CONSTRUCTION

Do not Disturb

52+32
℄ EX.R/W (NBL71)

52+20
℄ 68° (NBL71

51+27±8
℄ 81° (NBL71)

Close

CSH HOLDINGS LLC

TAILORED GRAPHICS LLC

8

KWIK TRIP INC

SW 1/4 NW 1/4 SEC. 31

+_ Type "B" Ent.

Remove (by Other Plan)

TEMPORARY EASEMENT TO SHAPE

2

TFI IA PORTFOLIO LLC

TEMPORARY EASEMENT TO CONSTRUCT ENTRANCE

320th St

NW 1/4 NW 1/4 SEC. 31

Type "B" Ent. U.A.C.

+32 Proposed Type "B" Ent.

8

KWIK TRIP INC

TEMPORARY EASEMENT TO CONSTRUCT ENTRANCE

Meadow TWP.
T-97N R-36W
SEC. 31

Right of Way Design Information

THIS SHEET INCLUDED
FOR INFORMATION ONLY

ROW Team: Larson / Hughes
ROW #: NHSN-018-2(145)--2R-21
Plan Date: 3-24-2025
Color Legend:

- Property Lines
- Temporary Easement
- Permanent Acquisition
- Permanent Acquisition County
- Permanent Acquisition City

0 50
FEET

FILE NO.	ENGLISH	DESIGN TEAM Strum / Janus / Gunderson	CLAY COUNTY	PROJECT NUMBER HSIPX-018-2(142)--3L-21	SHEET NUMBER H.1

3:26:57 PM 3/24/2025 CHUGHES pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\2101802023\ROW\ROW_21018145.dgn

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3
NTRA PROPERTIES LLC
18
7
STATE OF IOWA
JUDITH A ANDERSON
KRYSTINA L ANDERSON
ASHLYNN ANDERSON-DELLUCCI
Summit TWP.
T-97N R-37W
SEC. 25
SE 1/4 SE 1/4
SEC. 25
4
CITY OF SPENCER
SPENCER
LIVESTOCK SALES INC
55+55
℄ 142° (SBL71)
55+95±R
℄ 164° (SBL71)
STA: 2633+82.61 (ML018EB)
END CONSTRUCTION
STA: 3633+90.92 (ML018WB)
END CONSTRUCTION
Proposed
24" RCP
4
CITY OF SPENCER
TEMPORARY EASEMENT TO SHAPE
50+00
51+00
52+00
53+00
54+00
55+00
56+00
57+00
58+00
59+00
60+00
61+00
62+00
63+00
64+00
65+00
66+00
67+00
68+00
69+00
70+00
STA 62+86.06 (SUR071SB)
END CONSTRUCTION
71
STA: 63+27.23 (SUR071NB)
END CONSTRUCTION
STA: 7157+12.80 (SR320WB)
BEGIN CONSTRUCTION
STA 6157+10.14 (SR320EB)
BEGIN CONSTRUCTION
Close
6
MILLEMAN PRAIRIE FARMS LLC
SW 1/4 SW 1/4
SEC. 30
320th St
Meadow TWP.
T-97N R-36W
SEC. 30
0 50
FEET

Right of Way Design Information
THIS SHEET INCLUDED FOR INFORMATION ONLY
ROW Team: Larson / Hughes
ROW #: NHSN-018-2(145)--2R-21
Plan Date: 3-18-2025
Color Legend:
Property Lines
Temporary Easement
Permanent Acquisition
Permanent Acquisition County
Permanent Acquisition City

FILE NO.	ENGLISH	DESIGN TEAM Strum / Janus / Gunderson	CLAY COUNTY	PROJECT NUMBER HSIPX-018-2(142)--3L-21	SHEET NUMBER H.2	

11:30:24 AM 3/18/2025 CHUGHES pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\2101802023\ROW\ROW_21018145.dgn

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JUDITH A ANDERSON
KRYSTINA L ANDERSON
ASHLYNN ANDERSON-DELLUCCI

SPENCER LIVESTOCK SALES INC

4

CITY OF SPENCER

STA 62+86.06 (SUR071SB)
END CONSTRUCTION

STA 63+27.23 (SUR071NB)
END CONSTRUCTION

Summit TWP.
T-97N R-37W
SEC. 25

SE 1/4 SE 1/4
SEC. 25

7

STATE OF IOWA

Meadow TWP.
T-97N R-36W
SEC. 30

SW 1/4 SW 1/4
SEC. 30

624+00 625+00 626+00 627+00 628+00 629+00 630+00 631+00 632+00 633+00 634+00 157+00 158+00 159+00 160+00 161+00

18

71

STA 629+18.82 (SUR018)
BEGIN CONSTRUCTION

AQUIRE ACCESS CONTROL ON 18
FROM 626+55 to 632+46

24"x75' Conc. Pipe Remove

STA 3633+90.92 (ML18WB)
END CONSTRUCTION

Proposed 24" RCP

157+36±P
℄ 113' (SR320TH)

6

MILLEMAN PRAIRIE FARMS LLC

1

CHARLES P CHARLES
REVOCABLE TRUST

4th Ave W

24"x96' Conc. Pipe Remove

24"x73' Conc. Pipe Remove

STA 7157+11.80 (SR320WB)
BEGIN CONSTRUCTION

STA 2633+82.61 (ML18EB)
END CONSTRUCTION

AQUIRE ACCESS CONTROL ON 320
FROM 7157+61.84 to 7164+00

159+65
℄ 86' (SR320TH)

320th St

TEMPORARY EASEMENT TO
CONSTRUCT ENTRANCE & SHAPE

STA 6157+10.14
BEGIN CONSTRUCTION

Close

Do not Disturb

TEMPORARY EASEMENT
TO SHAPE

160+32 (SR320TH)
℄ 120'±P

158+22±EX R/W
℄ 200' (SR320TH)

160+36
℄ 129' (SR320TH)

2

3

NTRA PROPERTIES LLC

NE 1/4 NE 1/4
SEC. 36

4

CITY OF SPENCER

TEMPORARY EASEMENT
TO SHAPE

PLA-COR INC

TFI IA PORTFOLIO LLC

NW 1/4 NW 1/4
SEC. 31

Right of Way Design Information
THIS SHEET INCLUDED
FOR INFORMATION ONLY

ROW Team: Larson / Hughes
ROW #: NHSN-018-2(145)--2R-21
Plan Date: 3-18-2025
Color Legend:

- Property Lines
- Temporary Easement
- Permanent Acquisition
- Permanent Acquisition County
- Permanent Acquisition City

0 50 FEET

FILE NO.	ENGLISH	DESIGN TEAM Strum / Janus / Gunderson	CLAY COUNTY	PROJECT NUMBER HSIPX-018-2(142)--3L-21	SHEET NUMBER HE.1

12:38:04 PM 4/16/2025 CHUGHES pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\2101802023\ROW\ROW_21018145.dgn

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Meadow TWP.
T-97N R-36W
SEC. 30

6

MILLEMAN PRAIRIE FARMS LLC

SW 1/4 SW 1/4
SEC. 30

SE 1/4 SW 1/4
SEC. 30

157+36±P
℄ 113' (SR320TH)

159+65
℄ 86' (SR320TH)

162+30
℄ 82' (SR320TH)

164+33 (SR320TH)
℄ 55'±EX.R/W

157+00 157+00 158+00 158+00 159+00 159+00 160+00 160+00 161+00 161+00 162+00 162+00 163+00 163+00 164+00 164+00 165+00 165+00 166+00 166+00 167+00 167+00 168+00 168+00 169+00 169+00 170+00 171+00 172+00

6157+00 6158+00 6159+00 6160+00 6161+00 6162+00 6163+00 6164+00 6165+00 6166+00 6167+00 6168+00 6169+00 6170+00

18"x65'
CM.P.
U.A.C.

320th St

Sta 164+35.43 (SUR320)
END CONSTRUCTION

37"x23"x112'
ARCHED Conc. Pipe
U.A.C.

ACQUIRE ACCESS CONTROL ON 320 / B19
FROM 7157+62 TO 7164+00

STA 7157+12.80 (SR320WB)
BEGIN CONSTRUCTION

STA 6157+10.14 (SR320EB)
BEGIN CONSTRUCTION

Do not Disturb

Close

160+32 (SR320TH)
℄ 120'±℄

160+36
℄ 129' (SR320TH)

158+22±EX.R/W
℄ 200' (SR320TH)

71

TEMPORARY EASEMENT
TO SHAPE

8

KWIK TRIP INC

ENTRANCE BEING CONTRUCTED
WITHIN PREVIOUSLY ESTABLISHED ACCESS EASEMENT
Book 2024 Page 1338

+32 Proposed
Type "B" Ent.

2

TFI IA PORTFOLIO LLC

TEMPORARY EASEMENT TO
CONSTRUCT ENTRANCE

TEMPORARY EASEMENT TO
CONSTRUCT ENTRANCE

Type "B" Ent.
U.A.C.

2ND AVE. EAST

4

CITY OF SPENCER

NW 1/4 NW 1/4
SEC. 31

NE 1/4 NW 1/4
SEC. 31

PATRICIA SCHMIDT TRUST

Meadow TWP.
T-97N R-36W
SEC. 31

0 FEET 50

Right of Way Design Information
THIS SHEET INCLUDED
FOR INFORMATION ONLY

ROW Team: Larson / Hughes
ROW #: NHSN-018-2(145)--2R-21
Plan Date: 3-18-2025
Color Legend:
- Property Lines
- Temporary Easement
- Permanent Acquisition
- Permanent Acquisition County
- Permanent Acquisition City

FILE NO.	ENGLISH	DESIGN TEAM Strum / Janus / Gunderson	CLAY COUNTY	PROJECT NUMBER HSIPX-018-2(142)--3L-21	SHEET NUMBER HE.2

9:16:07 AM 3/20/2025 CHUGHES pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\2101802023\ROW\ROW_21018145.dgn

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Summit TWP.
T-97N R-37W
SEC. 36

SE 1/4 NE 1/4
SEC. 36

NE 1/4 NE 1/4
SEC. 36

SW 1/4 NW 1/4
SEC. 31

NW 1/4 NW 1/4
SEC. 31

Meadow TWP.
T-97N R-36W
SEC. 31

D & T OFFICE LLC

JOHN C & RUTH VANDERHAAG
LIVING TRUST

NTRA PROPERTIES LLC

PLA-COR INC

NTRA
PROPERTIES
LLC

D & T OFFICE LLC

DANNY R &
NANCY L BAILEY

CITY OF SPENCER

TAILORED
GRAPHICS LLC

KWIK TRIP INC

4th Ave W

4th Ave NW

19600+00
19601+00
19602+00
19603+00
19604+00
19605+00
19606+00
19607+00
19608+00
19609+00
19610+00
19611+00
19612+00
19613+00

3
4
8

71

TILE

Right of Way Design Information
THIS SHEET INCLUDED FOR INFORMATION ONLY
ROW Team: Larson / Hughes ROW #: NHSN-018-2(145)--2R-21 Plan Date: 3-20-2025 Color Legend: Property Lines Temporary Easement Permanent Acquisition Permanent Acquisition County Permanent Acquisition City

0 50
FEET

FILE NO. 98765	ENGLISH	DESIGN TEAM Strum / Janus / Gunderson	CLAY COUNTY	PROJECT NUMBER HSIPX-018-2(142)--3L-21	SHEET NUMBER HE.3	

3:39:35 PM 3/24/2025 CHUGHES pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\2101802023\ROW\ROW_21018145.dgn

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9618+00 9619+00 9620+00 9621+00 9622+00 9623+00 9624+00 9625+00 9626+00 9617+00 9616+00 9615+00 9614+00 9613+00 9612+00 9611+00 9610+00

Summit TWP
T-97N R-37W
SEC. 36

1
CHARLES P SCHMIDT
REVOCABLE TRUST

9617+00
℄ 67' (SR4NW)

9625+74±℞
℄ 60' (SR4NW)

9615+71±℞
℄ 78' (SR4NW)

9616+97±℞
℄ 52' (SR4NW)

9614+91
℄ 51' (SR4NW)

4th Ave NW

STA 0+00.00 (NONE)
END CONSTRUCTION

Type "B" Ent.

24"x56'
C.M.P.
U.A.C.

U.A.C.

TILE

9624+64 (SR4NW)
℄ 68'±Prop.N/W

3
NTRA PROPERTIES LLC

TEMPORARY EASEMENT TO
CONSTRUCT ENTRANCE & SHAPE

9624+68
℄ 162' (SR4NW)

Type "B" Ent.
Remove

24"x96'
Conc. Pipe

9625+14
℄ 165' (SR4NW)

9625+14
℄ 203' (SR4NW)

9625+56±℞
℄ 226' (SR4NW)

NE 1/4 NE 1/4
SEC. 36

SAN.

STA 626+18.82 (SUR018)
BEGIN CONSTRUCTION

Summit TWP.
T-97N R-37W
SEC. 25

+05
Type "B" Ent.

Remove

STATE
OF IOWA

24"x73'
Conc. Pipe
Remove

24"x75'
Conc. Pipe
Remove

SE 1/4 SE 1/4
SEC. 25

PLA-COR INC

9610+02
℄ 44' (SR4NW)

9609+71
℄ 76' (SR4NW)

9609+63±℞
℄ 110' (SR4NW)

9610+02
℄ 44' (SR4NW)

9609+73±℞
℄ 79' (SR4NW)

4th Ave W

STA: 9609+35.79 (SR4NW)
BEGIN CONSTRUCTION

4
CITY OF
SPENCER

TEMPORARY EASEMENT
TO SHAPE

0 50
FEET

Right of Way Design Information
THIS SHEET INCLUDED
FOR INFORMATION ONLY

ROW Team: Larson / Hughes
ROW #: NHSN-018-2(145)—2R-21
Plan Date: 3-20-2025
Color Legend:
- Property Lines
- Temporary Easement
- Permanent Acquisition
- Permanent Acquisition County
- Permanent Acquisition City

FILE NO. 98765	ENGLISH	DESIGN TEAM Strum / Janus / Gunderson	CLAY COUNTY	PROJECT NUMBER HSIX-018-2(142)--3L-21	SHEET NUMBER HE.4

3:47:48 PM 3/24/2025 CHUGHES pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\2101802023\ROW\ROW_21018145.dgn

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Right of Way Design Information

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ROW Team: Larson / Hughes
ROW #: NHSN-018-2(145)--2R-21
Plan Date: 3-17-2025
Color Legend:

- Property Lines
- Temporary Easement
- Permanent Acquisition
- Permanent Acquisition County
- Permanent Acquisition City

FILE NO. 98765	ENGLISH	DESIGN TEAM Strum / Janus / Gunderson	CLAY COUNTY	PROJECT NUMBER HSIX-018-2(142)--3L-21	SHEET NUMBER HE.5	

3:19:43 PM 3/17/2025 CHUGHES pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\2101802023\ROW\ROW_21018145.dgn

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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 Subbase
- Proposed Special Backfill
- Temporary Barrier Rail
- Proposed Granular Shoulder
- Temporary Shoulder
- Existing Shoulder Strengthening
- 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
- Drum
- Temporary Lane Separator
- Tubular Marker
- Channelizer Marker
- Concrete Barrier Marker
- Delineator
- Temporary Barrier Rail
- Pavement Removal
- Sand Barrel Layout
- Crash Cushion (Temp or Perm)
- Traffic Signal
- Flagger
- Temporary Floodlighting
- Traffic Sign
- Type III Barricade
- Type A Warning Light
- Direction of Traffic
- Safety Closure
- 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)

FILE NO.	ENGLISH	DESIGN TEAM **Strum/Janus**	**CLAY** COUNTY	PROJECT NUMBER **HSIPX-018-2(142)--3H-21**	SHEET NUMBER **J.1**	

2:40:34 PM 6/2/2026 ajanus2 pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\2101802023\Design\CADD_Files\Sheet_Files\SHT_21018142_D01.dgn

108-26A
08-01-08

STAGING NOTES

Stage 1
- Construction:
  - Begin construction of W 43rd St/5th Ave W.
  - Construct entrance to Parcel 2 on 2nd Ave E
  - Construct US 71 widening at intersection of US 18
- Traffic:
  - Close Southbound US 71 lane per TC-418 to construct widening

Stage 2A
- Construction:
  - Complete construction of W 43rd St/5th Ave W
  - Begin reconstruction of NB US 71
  - Begin reconstruction of east half of roundabout
  - Begin reconstruction of 320th St
  - Complete construction of 320th St at 2nd Ave E intersection
  - Begin construct of NB US 71 detour
- Traffic:
  - Shift US 71 into head-to-head configuration on the existing SB lanes
  - 320th St closed W of 2nd Ave
  - 2nd Ave access to 320th St closed

Stage 2B
- Construction:
  - Continue reconstruction of NB US 71
  - Continue reconstruction of east half of roundabout
  - Continue reconstruction of 320th St, west of 2nd Ave E
  - Continue construction of NB US 71 detour
  - Reconstruct W 37th St
  - Reconstruct south end of 4th Ave W
- Traffic:
  - Continue US 71 in head-to-head configuration on existing SB lanes
  - 320th St closed W of 2nd Ave E
  - Open 2nd Ave E/320th St intersection
  - Open new 43rd St/5th Ave W

Stage 2C
- Construction:
  - Continue reconstruction of NB US 71
  - Continue reconstruction of east half of roundabout
  - Continue reconstruction of 320th St, west of 2nd Ave E
  - Continue construction of NB US 71 detour
  - Reconstruct north end of 4th Ave W
- Traffic:
  - Continue US 71 in head-to-head configuration on existing SB lanes
  - 320th St closed W of 2nd Ave E
  - Maintain access to properties on 4th Ave W
  - Open W 37th St

Stage 3
- Construction:
  - Reconstruct SB US 71
  - Construct west half of roundabout
  - Reconstruct US 18
  - Reconstruct trail
  - Remove existing US 18 entrance to Parcel 3
- Traffic:
  - Shift US 71 into head-to-head configuration on the NB lanes
  - Open 320th St
  - Open 4th Ave W
  - Detour US 18 onto W 43rd St/ 5th Ave W, 4th Ave W, and W 37th St

Stage 4
- Construction:
  - Construct NB US 71 outside shoulder and curb and gutter
  - Construct truck aprons in the NE and SE quadrant
  - Construct 320th St median truck apron
  - Remove NB US 71 detour
- Traffic:
  - Shift US 71 back into normal 4-lane operation
  - Close NB US 71 outside lane
  - Open US 18
  - Close 320th St west of 2nd Ave E

108-26A
08-01-08

STAGING NOTES

Stage 5
- Construction:
  - Remove median crossovers on US 71
- Traffic:
  - Close NB and SB US 71 inside lanes
  - Open 320th St

Stage 6
- Construction:
  - Complete
- Traffic:
  - Open US 71 to normal 4-lane operation

108-23A
08-01-08

TRAFFIC CONTROL PLAN

U.S. 71
- Maintain at least one lane of traffic in each direction at all times

U.S. 18
- Detoured during Stage 3

All construction traffic control and staging shall be the responsibility of the Contractor including fabrication and installation of all traffic control signing

Traffic switches shall be made between 9:00 AM and 3:00 PM unless approved by the Engineer

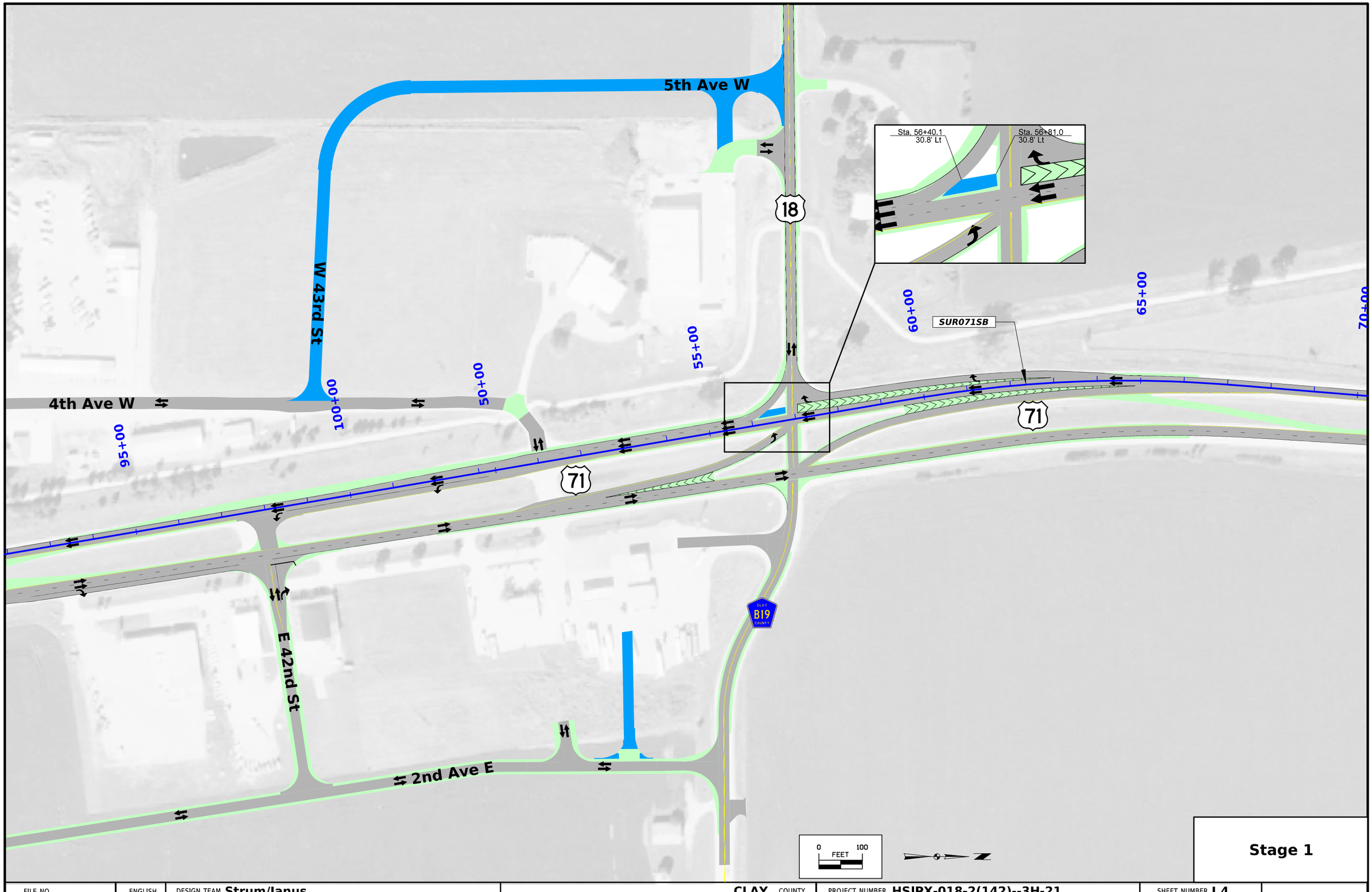
511 TRAVEL RESTRICTIONS

Route	Direction	County	Location Description	Feature Crossed	Object Type	Maint. Bridge No., Structure ID, or FHWA No.	Type of Restriction	Existing Measurement	Construction Measurement	Construction Measurement as Signed	Projected As Built Measurement	Remarks
			None Expected									

COORDINATED OPERATIONS

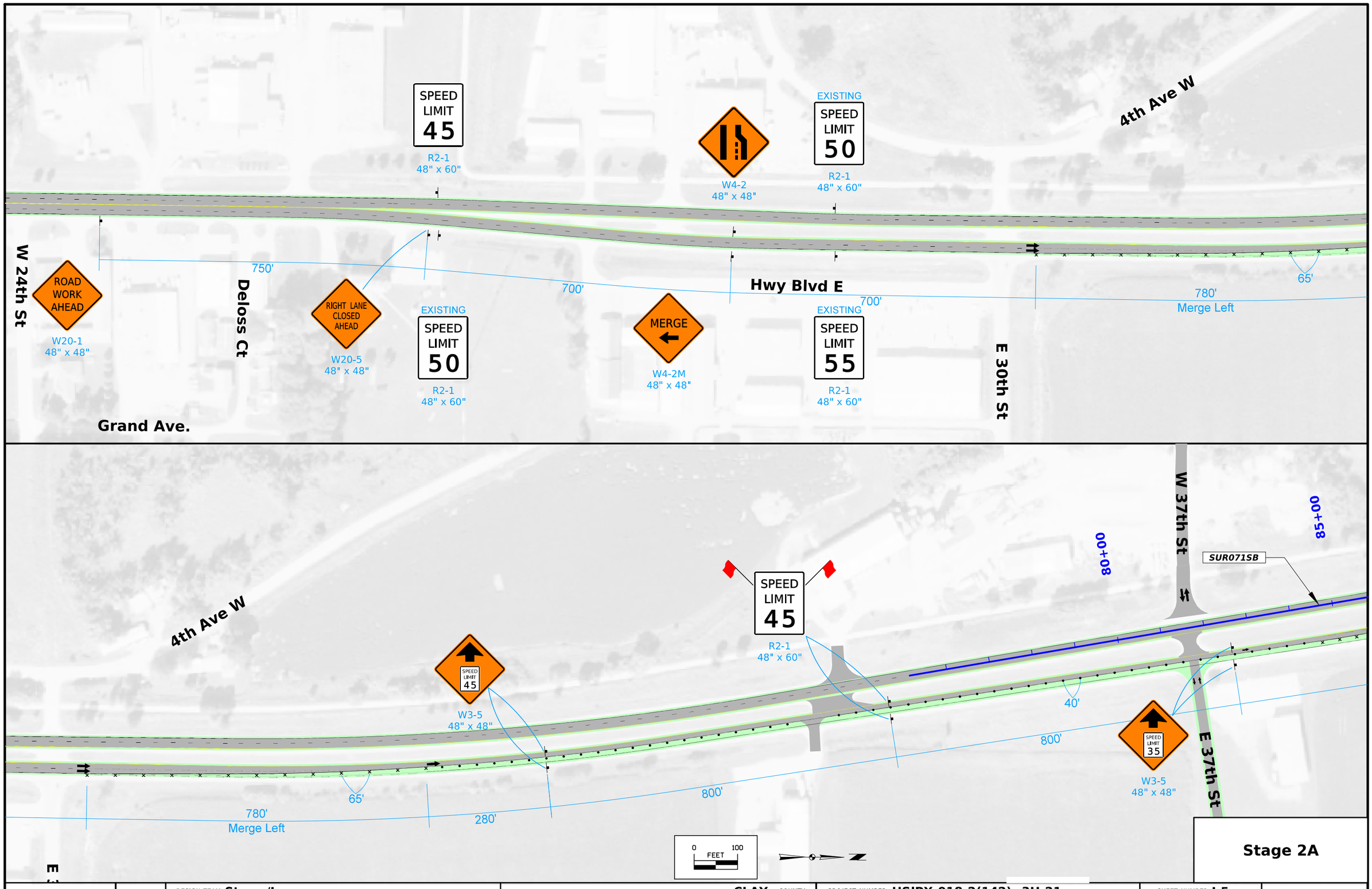
Other work in progress during the same period of time will include the construction of the projects listed. Coordinate operations with those of other contractors working within the same area.

Project	Type of Work
None	



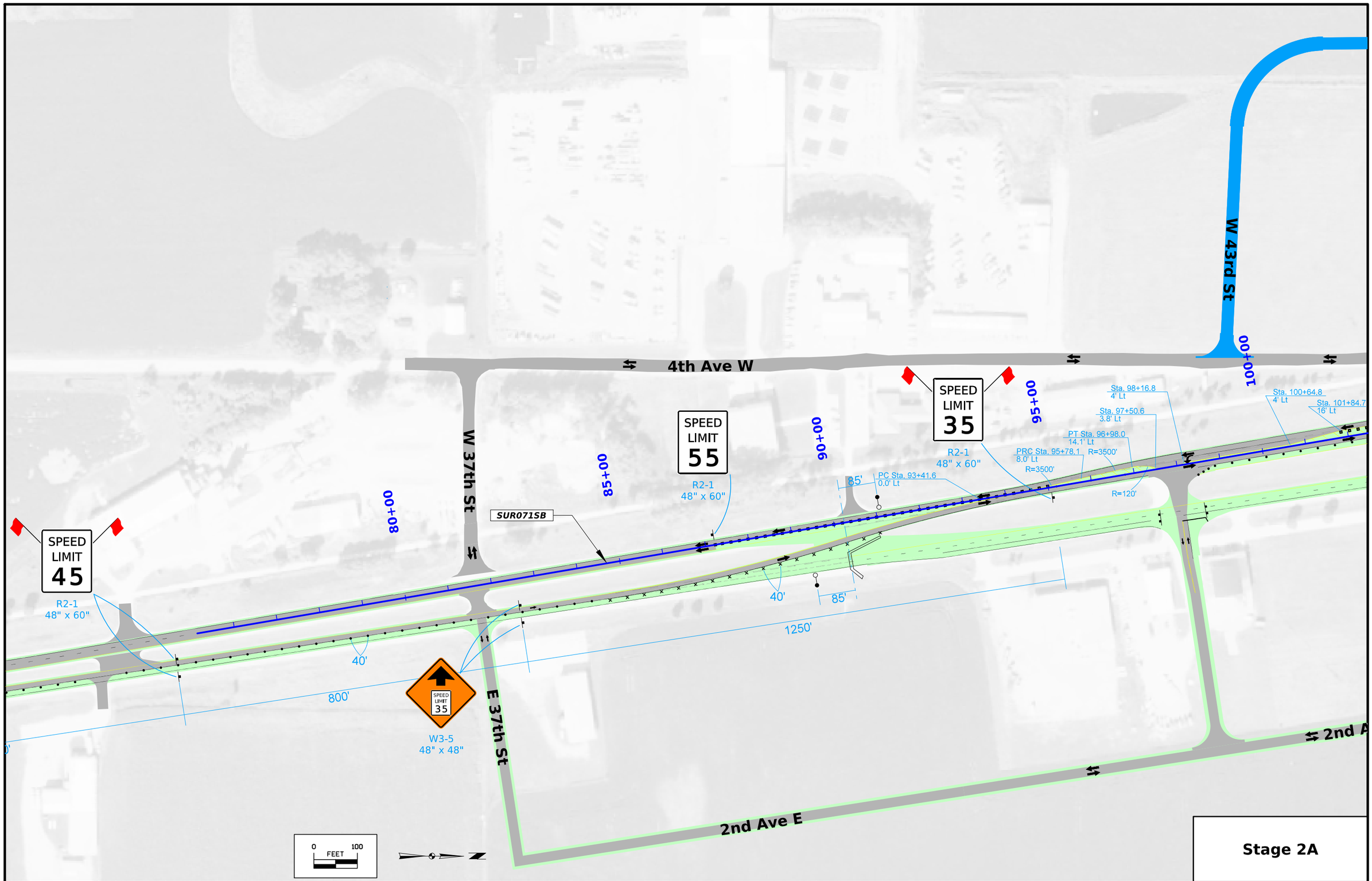
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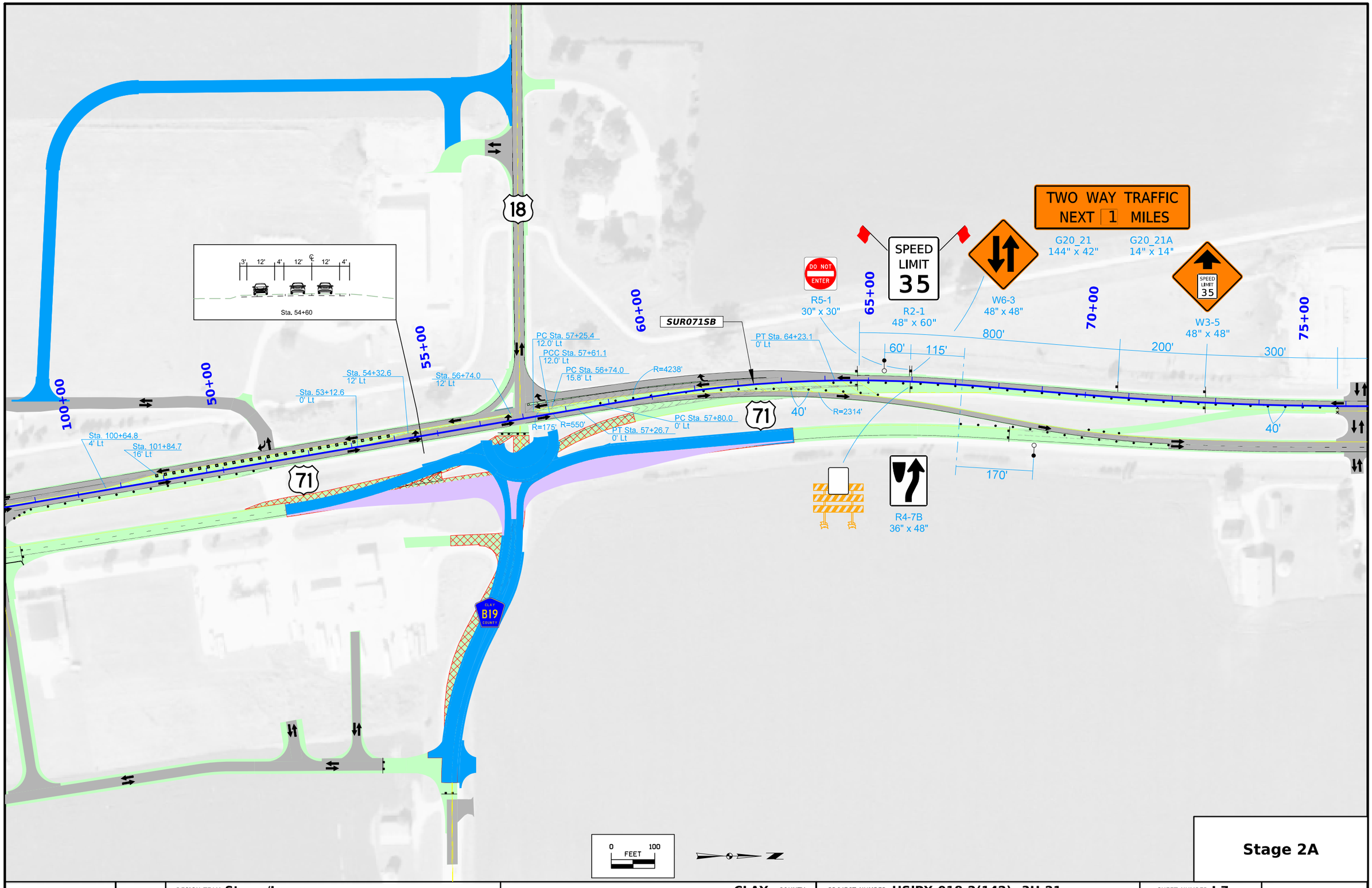
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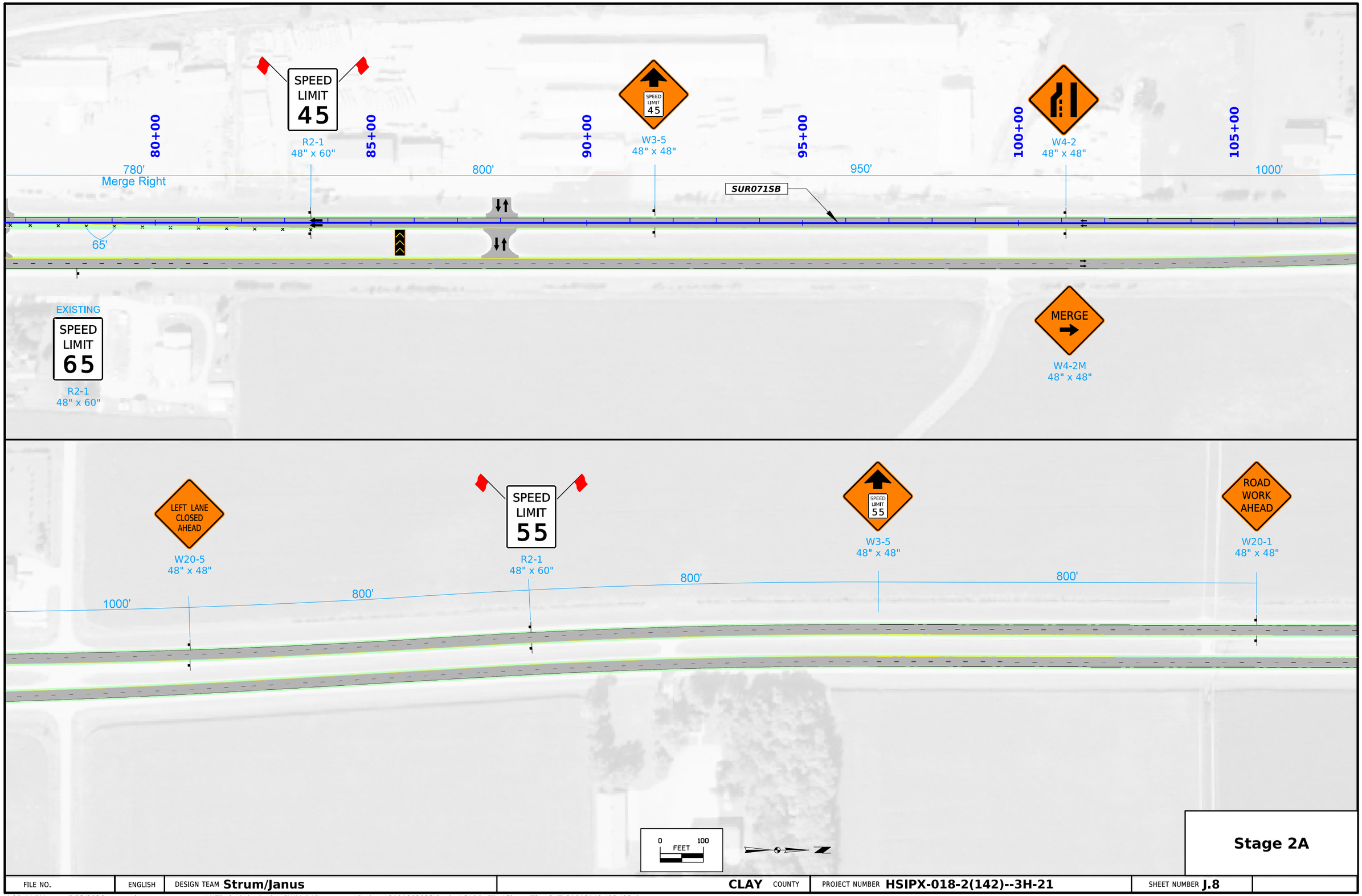
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4:20:40 PM 7/23/2026 jstrum pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\2101802023\Design\CADD_Files\Sheet_Files\SHT_21018142_J05_J08.dgn



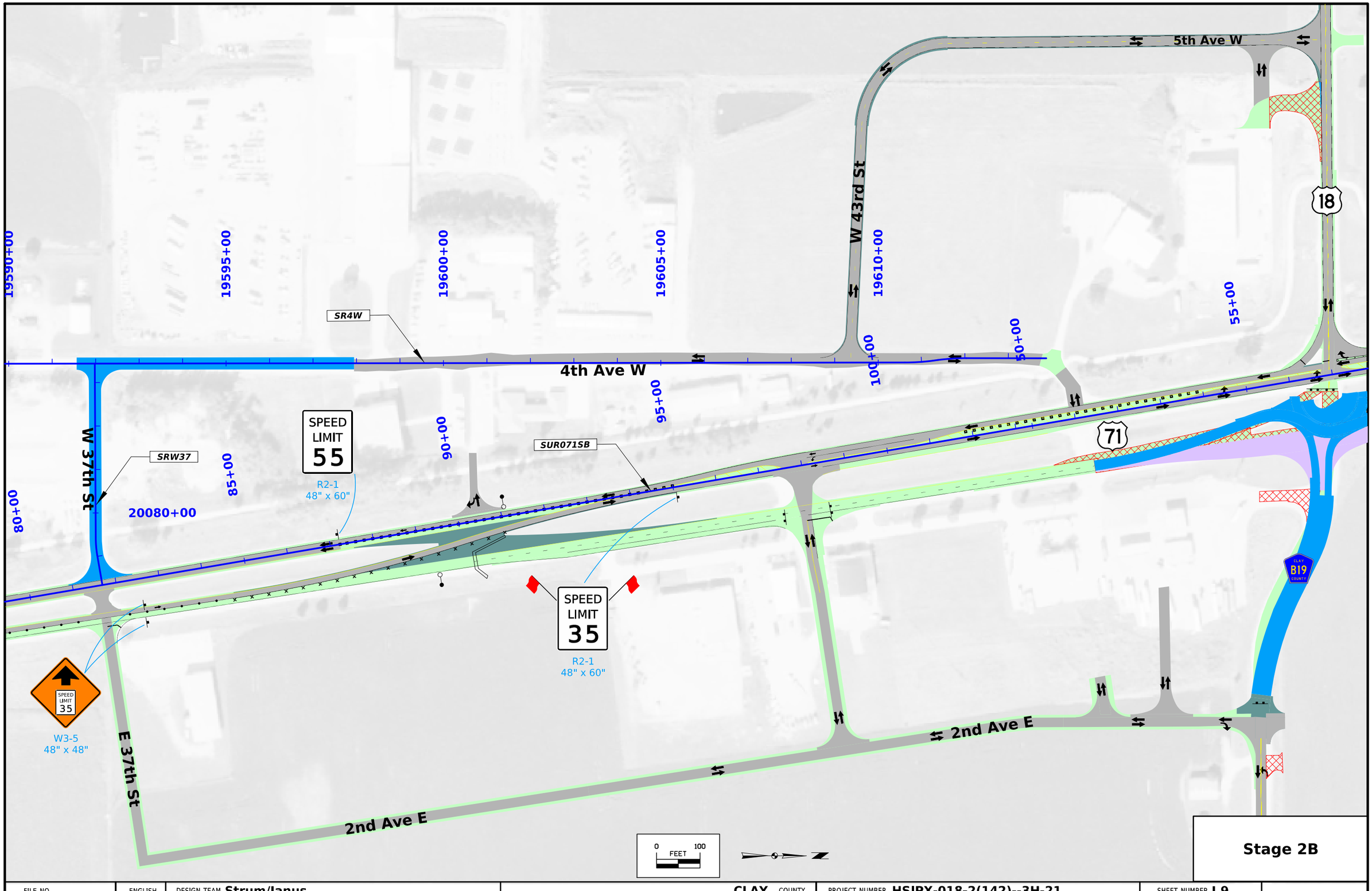
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FILE NO.	ENGLISH	DESIGN TEAM **Strum/Janus**	**CLAY** COUNTY	PROJECT NUMBER **HSIPX-018-2(142)--3H-21**	SHEET NUMBER **J.8**

4:20:44 PM 7/23/2026 jstrum pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\2101802023\Design\CADD_Files\Sheet_Files\SHT_21018142_J05_J08.dgn



FILE NO.	ENGLISH	DESIGN TEAM **Strum/Janus**	**CLAY** COUNTY	PROJECT NUMBER **HSIPX-018-2(142)--3H-21**	SHEET NUMBER **J.9**

4:20:55 PM 7/23/2026 jstrum pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\2101802023\Design\CADD_Files\Sheet_Files\SHT_21018142_J09.dgn

5th Ave W

W 43rd St

19590+00

19595+00

19600+00

19605+00

19610+00

100+00

50+00

55+00

18

SR4W

Contractor to Maintain
Access to Properties

4th Ave W

95+00

90+00

85+00

80+00

W 37th St

SUR071SB

71

SPEED
LIMIT
55

R2-1
48" x 60"

SPEED
LIMIT
35

R2-1
48" x 60"

SPEED
LIMIT
35

W3-5
48" x 48"

E 37th St

2nd Ave E

2nd Ave E

CLAY
B19
COUNTY

0 FEET 100

Stage 2C

FILE NO.	ENGLISH	DESIGN TEAM Strum/Janus	CLAY COUNTY	PROJECT NUMBER HSIPX-018-2(142)--3H-21	SHEET NUMBER J.10

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W 24th St

ROAD WORK AHEAD
W20-1
48" x 48"

750'

Deloss Ct

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

EXISTING
SPEED LIMIT 45
R2-1
48" x 60"

EXISTING
SPEED LIMIT 50
R2-1
48" x 60"

700'

W4-2
48" x 48"

MERGE
W4-2M
48" x 48"

EXISTING
SPEED LIMIT 50
R2-1
48" x 60"

EXISTING
SPEED LIMIT 55
R2-1
48" x 60"

700'

Hwy Blvd E

4th Ave W

780'
Merge Right

55'

E 30th St

Grand Ave.

71

4th Ave W

W 37th St

E 37th St

SPEED LIMIT 45
R2-1
48" x 60"

W3-5
48" x 48"

80+00

120'
5 Devices

150'
Left Turn

40'

800'

280'

SPEED LIMIT 35
W3-5
48" x 48"

SPEED LIMIT 55
R2-1
48" x 60"

85+00

120'

40'

150'

TWO WAY TRAFFIC
NEXT 1 MILES
G20_21
144" x 42"

G20_21A
14" x 14"

SUR071SB

90+00

85'

115'

60'

95+00

R4-7B
36" x 48"

SPEED LIMIT 35
R2-1
48" x 60"

W6-3
48" x 48"

DO NOT ENTER
R5-1
30" x 30"

0 100
FEET

Stage 3

FILE NO.	ENGLISH	DESIGN TEAM Strum/Janus	CLAY COUNTY	PROJECT NUMBER HSIPX-018-2(142)--3H-21	SHEET NUMBER J.11

4:21:08 PM 7/23/2026 jstrum pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\2101802023\Design\CADD_Files\Sheet_Files\SHT_21018142_J11_J14.dgn

5th Ave W

W 43rd St

4th Ave W

18

71

71

B19

2nd Ave E

100+00

50+00

55+00

60+00

65+00

70+00

SPEED LIMIT 35

R2-1
48" x 60"

170'

170'

615'

SUR071SB

DETNB300

40'

R=2000'

R=2000'

R=2000'

R=2000'

PC Sta. 453+02
0' Rt

PRC Sta. 454+13.3
5' Rt

PT Sta. 456+19.4
15.8' Rt

PC Sta. 456+53.6
16' Rt

PRC Sta. 456+90.8
12.3' Rt

Sta. 457+03.4
16' Rt

Sta. 459+49.4
12' Rt

Sta. 459+09.4
0' Lt

PT Sta. 463+30.4
0' Rt

0 100
FEET

Stage 3

FILE NO.	ENGLISH	DESIGN TEAM Strum/Janus	CLAY COUNTY	PROJECT NUMBER HSIPX-018-2(142)--3H-21	SHEET NUMBER J.12

4:21:09 PM 7/23/2026 jstrum pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\2101802023\Design\CADD_Files\Sheet_Files\SHT_21018142_J11_J14.dgn

75+00

W3-5
48" x 48"

450'

80+00

W1-4L
48" x 48"

500'

85+00

SPEED LIMIT 45

R2-1
48" x 60"

800'

90+00

W3-5
48" x 48"

95+00

800'

100+00

SPEED LIMIT 55

R2-1
48" x 60"

600'

105+00

SUR071SB

40'

EXISTING
SPEED LIMIT 65

R2-1
48" x 60"

310th St

W3-5
48" x 48"

600'

MERGE

W4-2M
48" x 48"

1000'

RIGHT LANE CLOSED AHEAD

W20-5
48" x 48"

W4-2
48" x 48"

310th St

0 FEET 100

Stage 3

FILE NO.	ENGLISH	DESIGN TEAM Strum/Janus	CLAY COUNTY	PROJECT NUMBER HSIPX-018-2(142)--3H-21	SHEET NUMBER J.13

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FILE NO.	ENGLISH	DESIGN TEAM **Strum/Janus**	**CLAY** COUNTY	PROJECT NUMBER **HSIPX-018-2(142)--3H-21**	SHEET NUMBER **J.14**	

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W 37th St

71

RIGHT LANE CLOSED AHEAD

W20-5
48" x 48"

1000'

E 37th St

90+00

95+00

100+00

W4-2
48" x 48"

71

71

ML071NB

55'

780'
Merge Left

1000'

MERGE

W4-2M
48" x 48"

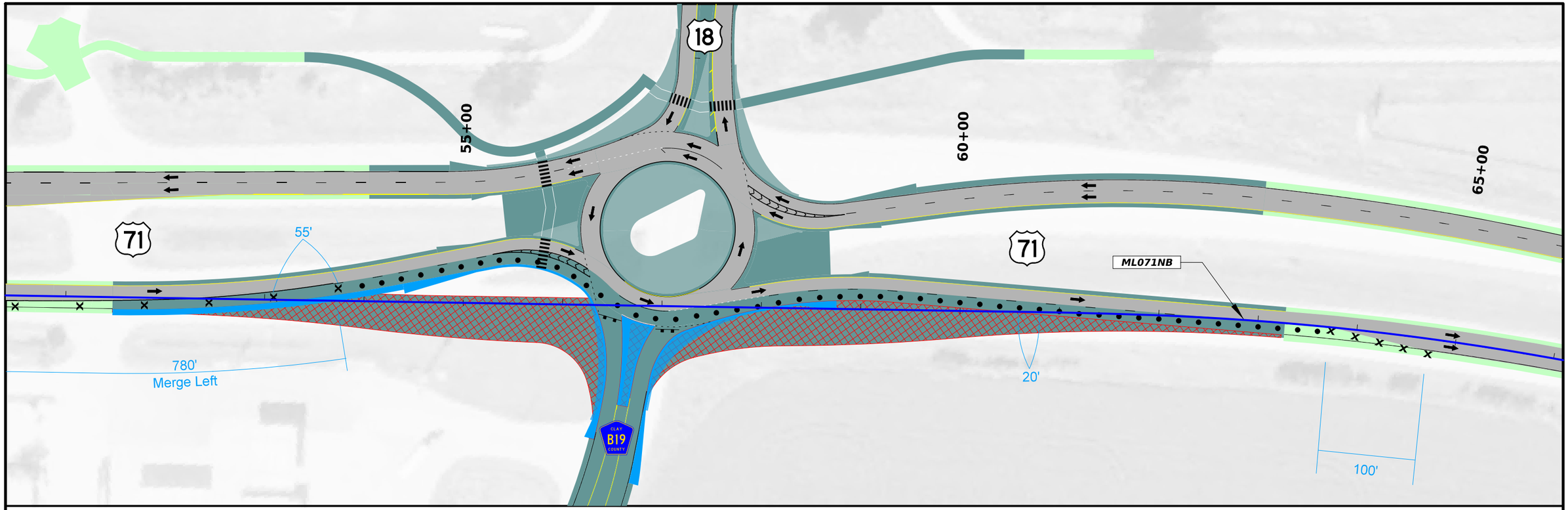
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E 42nd St

Stage 4

FILE NO.	ENGLISH	DESIGN TEAM **Strum/Janus**	**CLAY** COUNTY	PROJECT NUMBER **HSIPX-018-2(142)--3H-21**	SHEET NUMBER **J.15**

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0 FEET 50

Stage 4

FILE NO.	ENGLISH	DESIGN TEAM **Strum/Janus**	**CLAY** COUNTY	PROJECT NUMBER **HSIPX-018-2(142)--3H-21**	SHEET NUMBER **J.16**

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4th Ave W

LEFT LANE CLOSED AHEAD

W20-5
48" x 48"

MERGE

W4-2M
48" x 48"

LEFT LANE CLOSED AHEAD

W20-5
48" x 48"

500'

200'

500'

SPEED LIMIT 45

W3-5
48" x 48"

W4-2
48" x 48"

W 37th St

SPEED LIMIT 45

R2-1
48" x 60"

100'
5 Devices

45'

80'

500'

200'

630'
Merge Right

E 37th St

0 FEET 50

Stage 5

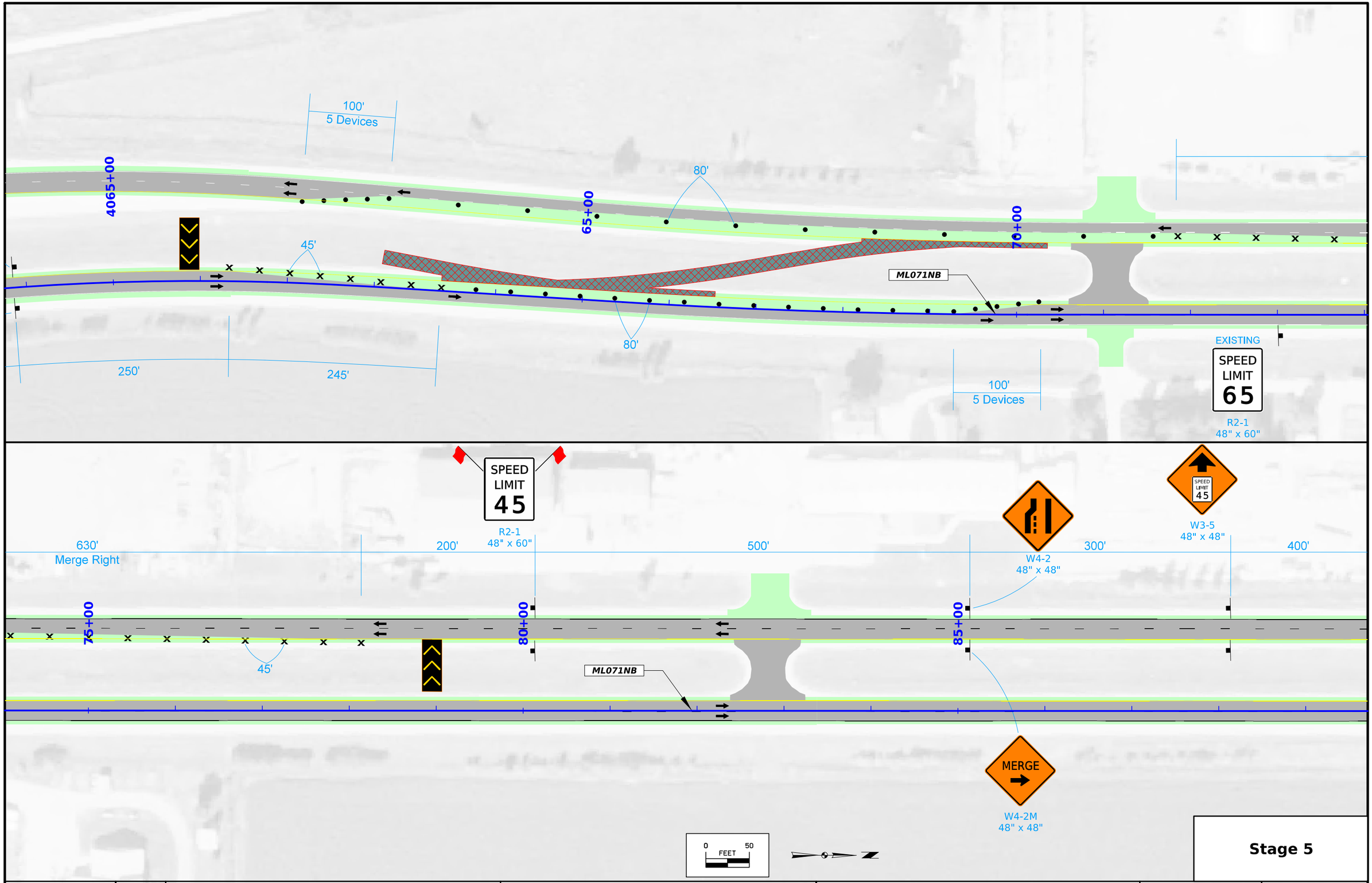
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245'
250'
250'
W4-2
48" x 48"
35'
MERGE
W4-2M
48" x 48"
100'
5 Devices
LEFT LANE CLOSED AHEAD
W20-5
48" x 48"
4050+00
4055+00
4060+00
18
71
71
ML071NB
ML071NB
LEFT LANE CLOSED AHEAD
W20-5
48" x 48"
MERGE
W4-2M
48" x 48"
LEFT LANE CLOSED AHEAD
W20-5
48" x 48"
250'
W4-2
48" x 48"
CLAY
B19
COUNTY
0
50
FEET
Stage 5

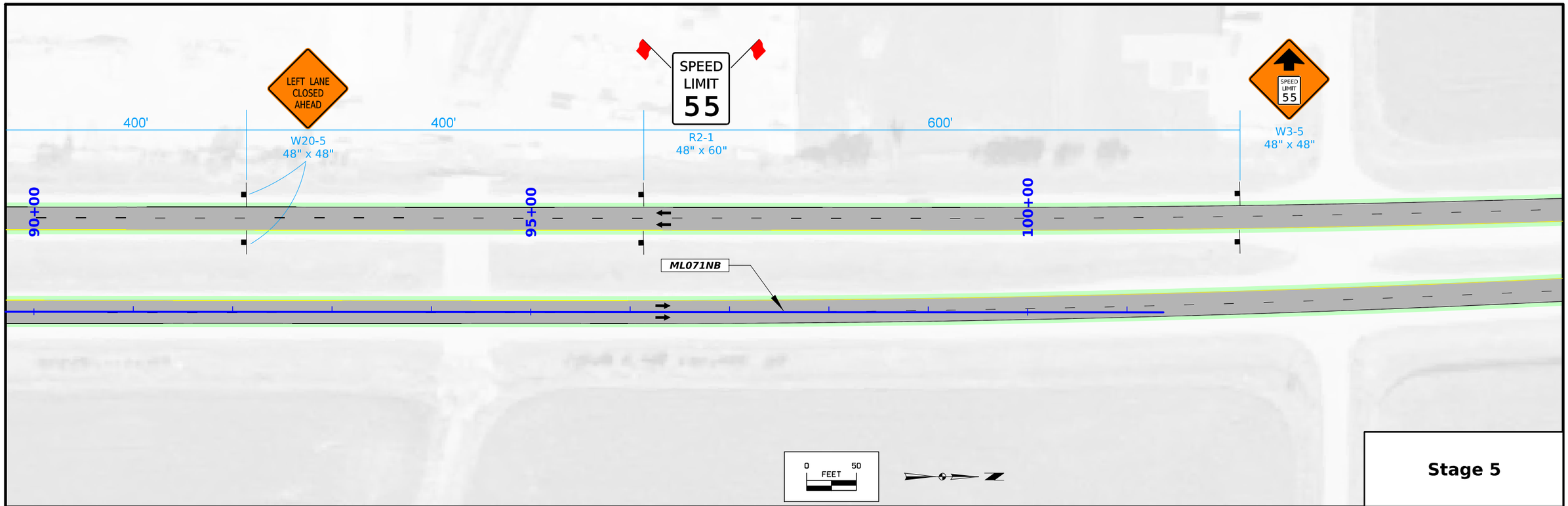
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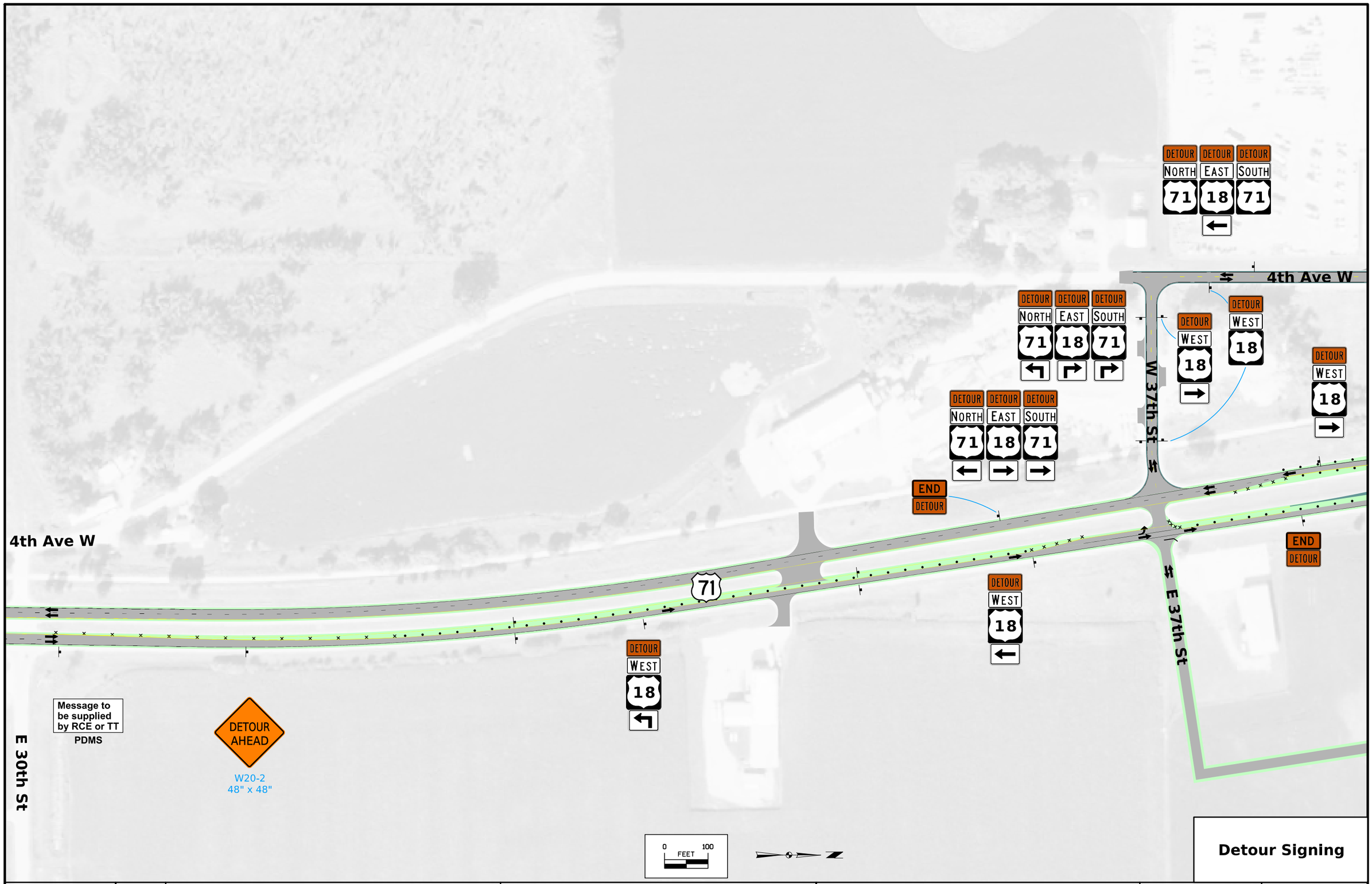
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Stage 5

FILE NO.	ENGLISH	DESIGN TEAM **Strum/Janus**	**CLAY** COUNTY	PROJECT NUMBER **HSIPX-018-2(142)--3H-21**	SHEET NUMBER **J.20**	

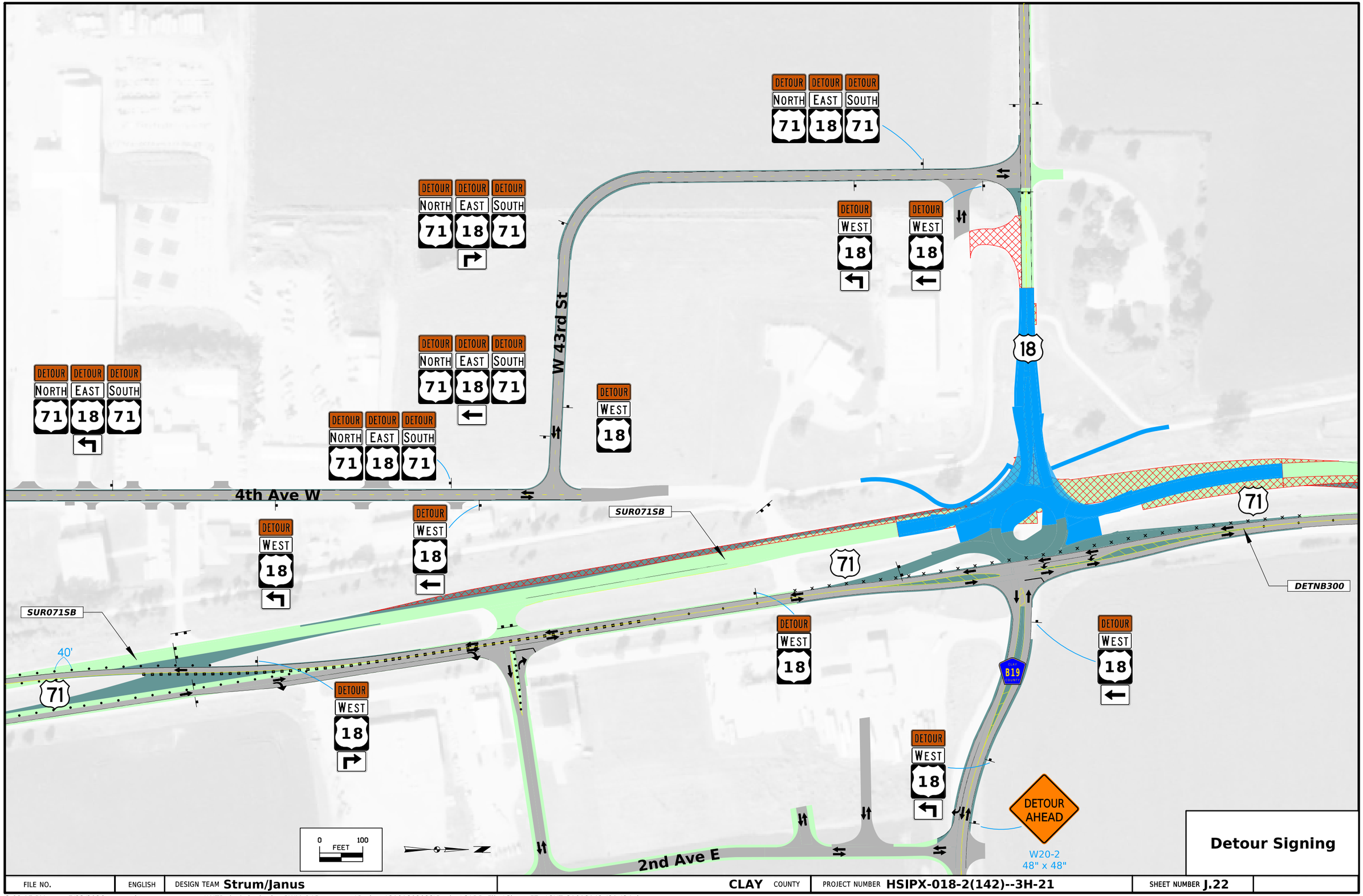
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Detour Signing

FILE NO.	ENGLISH	DESIGN TEAM Strum/Janus	CLAY COUNTY	PROJECT NUMBER HSIPX-018-2(142)--3H-21	SHEET NUMBER J.21

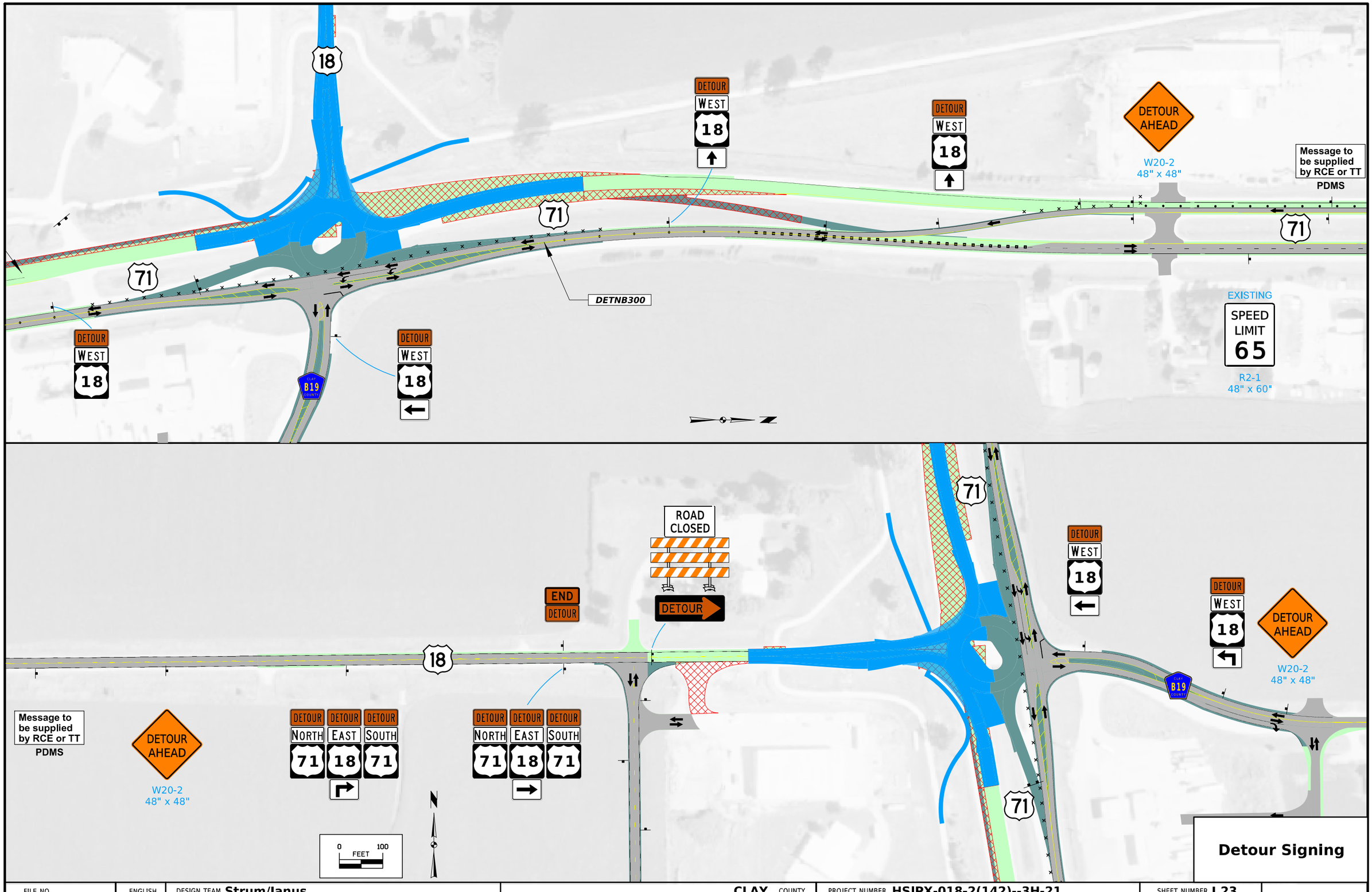
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Detour Signing

FILE NO.	ENGLISH	DESIGN TEAM Strum/Janus	CLAY COUNTY	PROJECT NUMBER HSIPX-018-2(142)--3H-21	SHEET NUMBER J.22

3:09:17 PM 7/23/2026 jstrum pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\2101802023\Design\CADD_Files\Sheet_Files\SHT_21018142_J21_J24.dgn



FILE NO.	ENGLISH	DESIGN TEAM Strum/Janus	CLAY COUNTY	PROJECT NUMBER HSIPX-018-2(142)--3H-21	SHEET NUMBER J.23

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SIGN INVENTORY

	MUTCD ID	Size	Total #
DETOUR	M4-8	12" x 6"	45
NORTH	M3-1	24" x 12"	10
EAST	M3-2	24" x 12"	10
SOUTH	M3-3	24" x 12"	8
WEST	M3-4	24" x 12"	17
END	M4-8B	24" x 12"	3
	M5-1	21" x 15"	6
	M6-1	21" x 15"	7
	M5-1B	21" x 15"	5
	M6-1	21" x 15"	5
	M6-3	21" x 15"	2
18	M1-4	24" x 24"	27
71	M1-4	24" x 24"	20
DETOUR AHEAD	W20-2	48" x 48"	4
ROAD CLOSED	R11-2	48" x 30"	1
DETOUR	M4-10R	48" x 18"	1
Type III Barricade	N/A	N/A	1
XXXXXXXX XXXXXXXX XXXXXXXX PDMS	N/A	N/A	3

RET A

11+79.00 0.00'
RETA

1+37.06 0.00'
RETA_TA

10+59.70 0.00'
RETA

11+04.85 83.80'
RETA

R 280'

0+88.76 0.00'
RETA_TA

10+17.98 0.00'
RETA

7157+47.19 19.34'
SR320WB

10+00.00 0.00'
RETA

7157+74.00 18.50'
SR320WB

R 450

R 110'

R 77.5'

R 37.5'

0+00.00 0.00'
RETA_TA

7158+04.39 18.50'
SR320WB

0+00.00 0.00'
NONE

4057+09.56 18.50'
ML071NB

7157+24.40 2.50'
SR320WB

R 2'

R 3.5'

R 600'

7158+55.72 2.50'
SR320WB

7159+50.00 2.50'
SR320WB

R 347.5'

R 602.5'

R 3'

R 250'

320th St

5060+00
4060+00
5059+00
4059+00
5058+00
4058+00
3634+00
5057+00
4057+00
2634+00
7157+00
7158+00
7159+00
7160+00
6158+00
6157+00
6159+00
4056+00

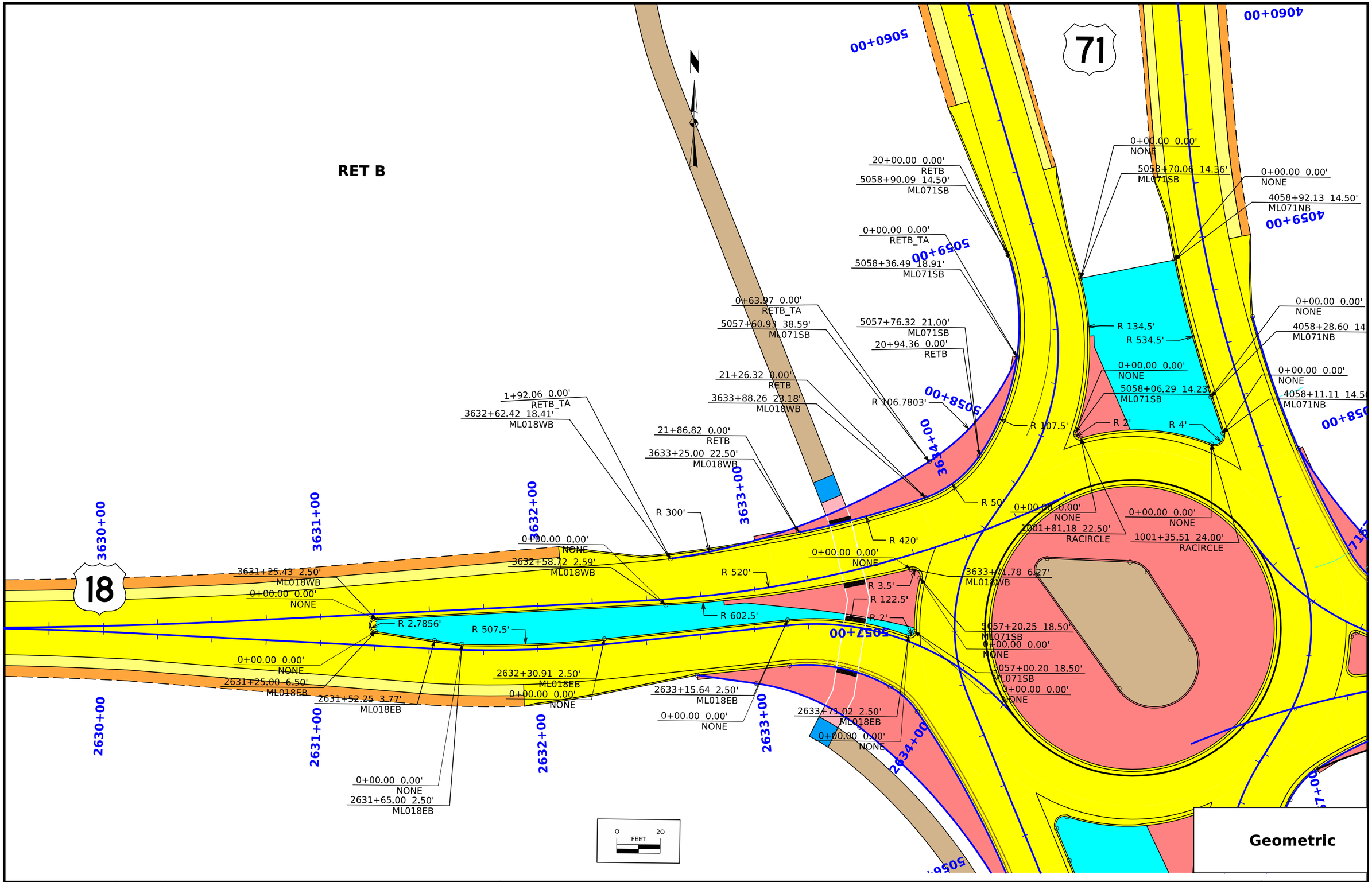
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Geometric

FILE NO.	ENGLISH	DESIGN TEAM Strum/Janus	CLAY COUNTY	PROJECT NUMBER HSIPX-018-2(142)--3H-21	SHEET NUMBER L.1

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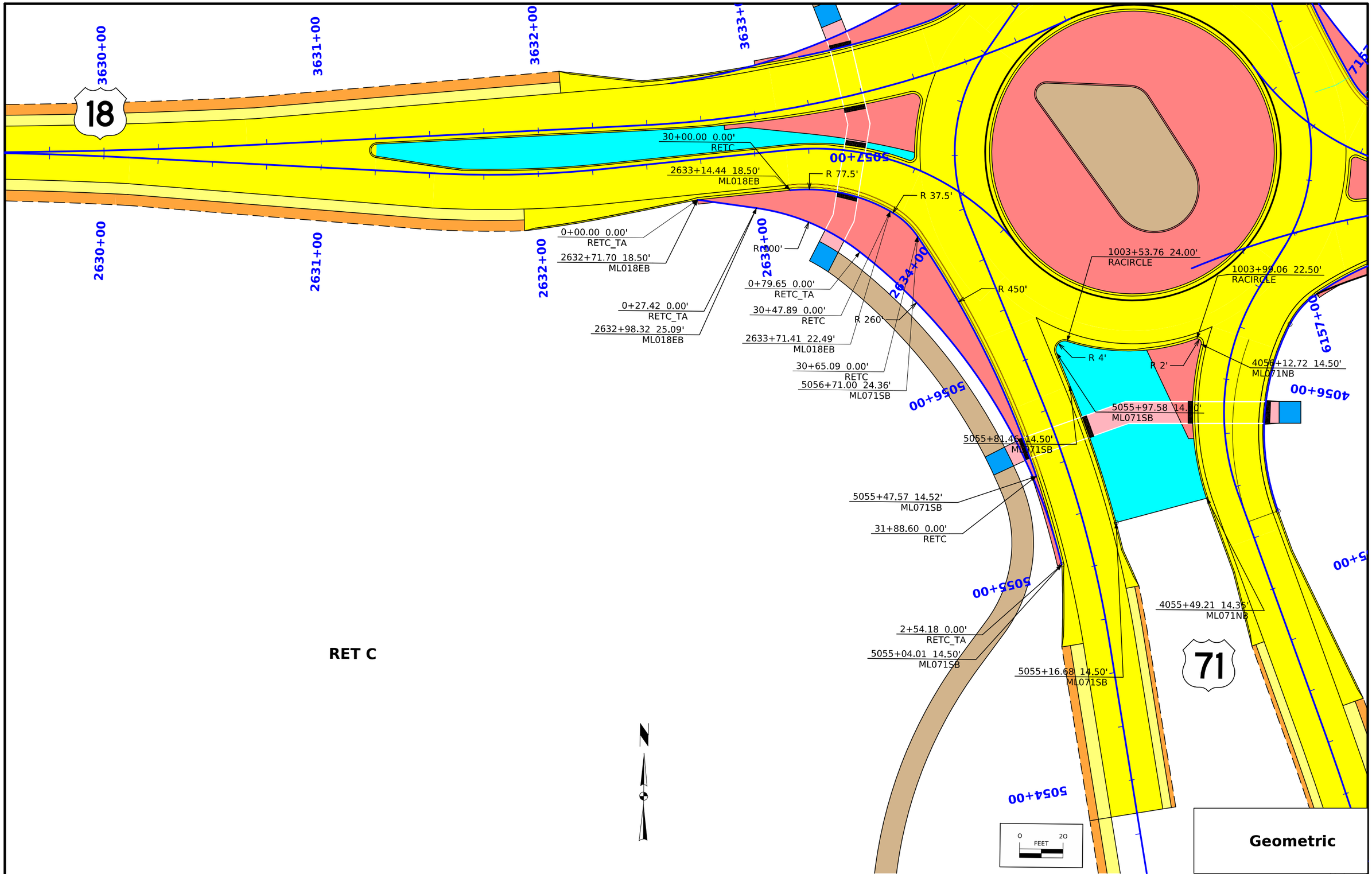
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Geometric

FILE NO.	ENGLISH	DESIGN TEAM **Strum/Janus**	**CLAY** COUNTY	PROJECT NUMBER **HSIPX-018-2(142)--3H-21**	SHEET NUMBER **L.2**

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RET C

Geometric

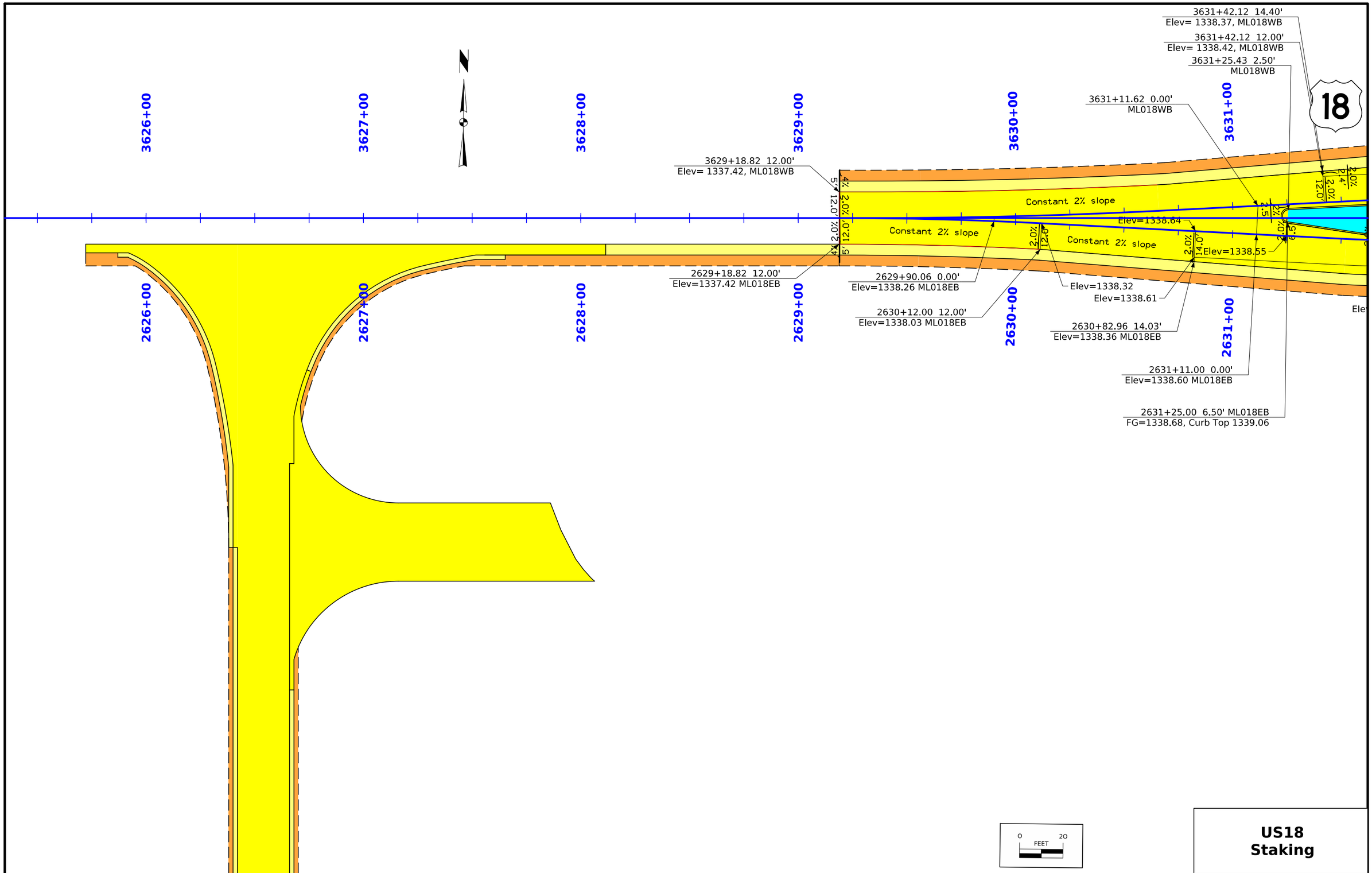
FILE NO.	ENGLISH	DESIGN TEAM **Strum/Janus**	**CLAY** COUNTY	PROJECT NUMBER **HSIPX-018-2(142)--3H-21**	SHEET NUMBER **L.3**

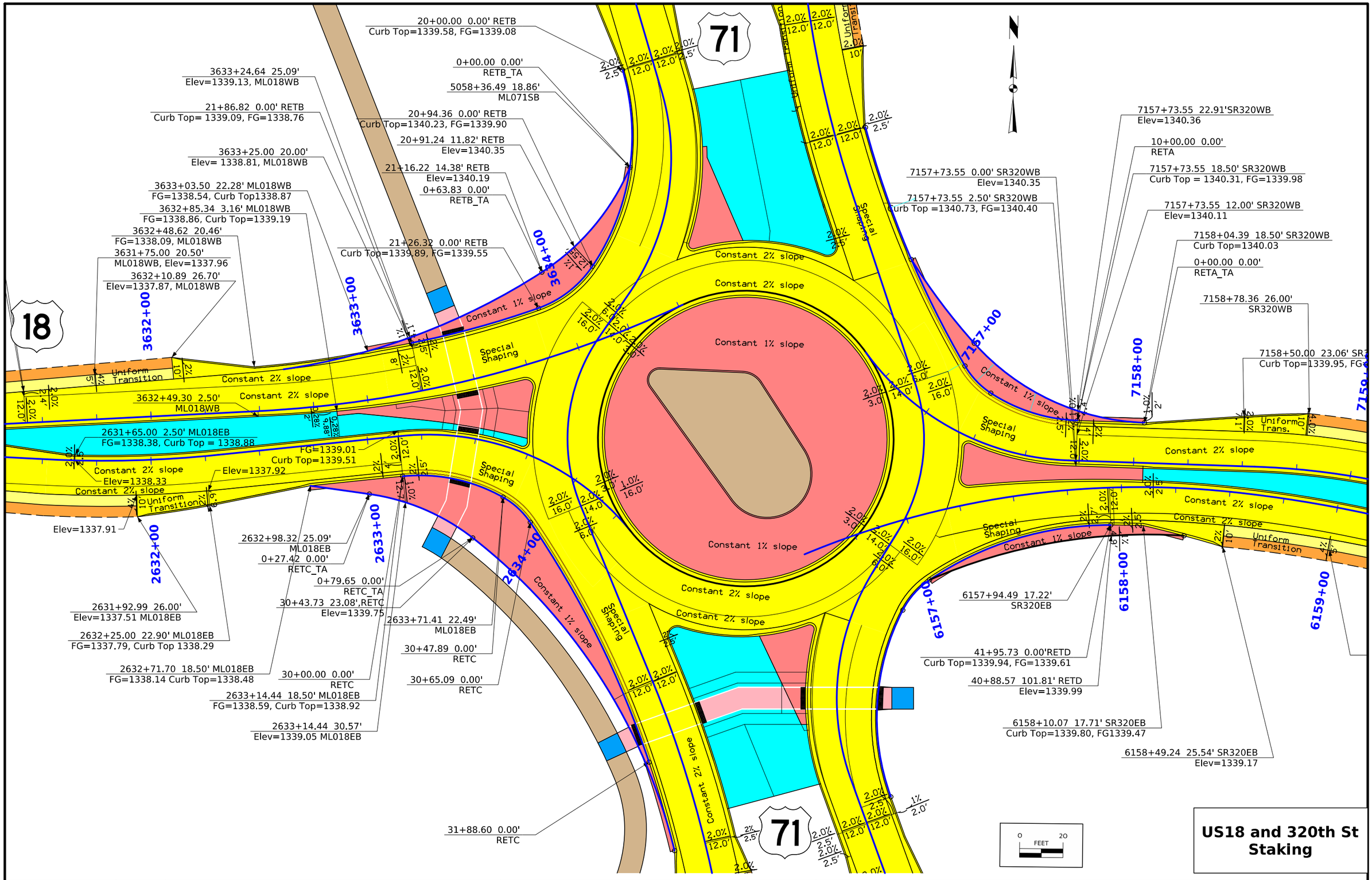
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1+46.53 0.00'
MED_CIRCLE
1002+23.50 17.26'
RACIRCLE
1+08.35 0.00'
MED_CIRCLE
1001+65.86 37.70'
RACIRCLE
0+98.78 0.00'
MED_CIRCLE
1001+45.63 41.45'
RACIRCLE
R 5'
R 10'
1+57.72 0.00'
MED_CIRCLE
1002+35.62 18.12'
RACIRCLE
0+61.78 0.00'
MED_CIRCLE
1000+42.47 40.77'
RACIRCLE
R 20'
1003+61.30 39.36'
RACIRCLE
-0+00.00 0.00'
MED_CIRCLE
5057+00
2634+00
5056+00
7157+00
7158+00
7159+00
7160+00
4057+00
R 147.5'
R 250'
6158+00
6157+00
6159+00
6160+00
6161+00
320th St
R 37.5'
0+00.00 0.00'
RETD_TA
41+07.35 0.00'
RETD
40+88.57 0.00'
RETD
1+19.85 0.00'
RETD_TA
6158+29.92 21.80'
SR320EB
41+95.73 0.00'
RETD
6157+94.49 17.22'
SR320EB
4056+00
R 107.5'
4055+32.87 14.50'
ML071NB
40+00.00 0.00'
RETD
5055+47.62 14.50'
ML071SB
4055+00
5055+00
5054+00
4054+00
71
RET D
O 2O
FEET
Geometric

FILE NO.	ENGLISH	DESIGN TEAM Strum/Janus	CLAY COUNTY	PROJECT NUMBER HSIPX-018-2(142)--3H-21	SHEET NUMBER L.4	

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3626+00
3627+00
3628+00
3629+00
3630+00
3631+00
2626+00
2627+00
2628+00
2629+00
2630+00
2631+00
18
3629+18.82 12.00'
Elev= 1337.42, ML018WB
2629+18.82 12.00'
Elev=1337.42 ML018EB
3631+42.12 14.40'
Elev= 1338.37, ML018WB
3631+42.12 12.00'
Elev= 1338.42, ML018WB
3631+25.43 2.50'
ML018WB
3631+11.62 0.00'
ML018WB
Constant 2% slope
Constant 2% slope
Constant 2% slope
Elev=1338.64
Elev=1338.55
2629+90.06 0.00'
Elev=1338.26 ML018EB
2630+12.00 12.00'
Elev=1338.03 ML018EB
Elev=1338.32
Elev=1338.61
2630+82.96 14.03'
Elev=1338.36 ML018EB
2631+11.00 0.00'
Elev=1338.60 ML018EB
2631+25.00 6.50' ML018EB
FG=1338.68, Curb Top 1339.06
4%
2.0%
5.0'
12.0'
2.0%
2.4'
2.0%
12.0'
2.0%
5.0'
12.0'
2.0%
2.0%
2.0%
14.0'
2.0%
5.0'
2.0%
2.0%
2.0%


20+00.00 0.00' RETB
Curb Top=1339.58, FG=1339.08
0+00.00 0.00'
RETB_TA
5058+36.49 18.86'
ML071SB
3633+24.64 25.09'
Elev=1339.13, ML018WB
21+86.82 0.00' RETB
Curb Top= 1339.09, FG=1338.76
20+94.36 0.00' RETB
Curb Top=1340.23, FG=1339.90
20+91.24 11.82' RETB
Elev=1340.35
3633+25.00 20.00'
Elev= 1338.81, ML018WB
21+16.22 14.38' RETB
Elev=1340.19
0+63.83 0.00'
RETB_TA
3633+03.50 22.28' ML018WB
FG=1338.54, Curb Top1338.87
3632+85.34 3.16' ML018WB
FG=1338.86, Curb Top=1339.19
3632+48.62 20.46'
FG=1338.09, ML018WB
3631+75.00 20.50'
ML018WB, Elev=1337.96
3632+10.89 26.70'
Elev=1337.87, ML018WB
21+26.32 0.00' RETB
Curb Top=1339.89, FG=1339.55
7157+73.55 22.91'SR320WB
Elev=1340.36
10+00.00 0.00'
RETA
7157+73.55 18.50' SR320WB
Curb Top = 1340.31, FG=1339.98
7157+73.55 0.00' SR320WB
Elev=1340.35
7157+73.55 2.50' SR320WB
Curb Top =1340.73, FG=1340.40
7157+73.55 12.00' SR320WB
Elev=1340.11
7158+04.39 18.50' SR320WB
Curb Top=1340.03
0+00.00 0.00'
RETA_TA
7158+78.36 26.00'
SR320WB
7158+50.00 23.06' SR
Curb Top=1339.95, FG
3632+49.30 2.50'
ML018WB
2631+65.00 2.50' ML018EB
FG=1338.38, Curb Top = 1338.88
FG=1339.01
Curb Top=1339.51
Elev=1338.33
Elev=1337.92
Elev=1337.91
2632+98.32 25.09'
ML018EB
0+27.42 0.00'
RETC_TA
0+79.65 0.00'
RETC_TA
30+43.73 23.08',RETC
Elev=1339.75
2631+92.99 26.00'
Elev=1337.51 ML018EB
2632+25.00 22.90' ML018EB
FG=1337.79, Curb Top 1338.29
2632+71.70 18.50' ML018EB
FG=1338.14 Curb Top=1338.48
30+00.00 0.00'
RETC
2633+14.44 18.50' ML018EB
FG=1338.59, Curb Top=1338.92
2633+14.44 30.57'
Elev=1339.05 ML018EB
2633+71.41 22.49'
ML018EB
30+47.89 0.00'
RETC
30+65.09 0.00'
RETC
31+88.60 0.00'
RETC
6157+94.49 17.22'
SR320EB
41+95.73 0.00'RETD
Curb Top=1339.94, FG=1339.61
40+88.57 101.81' RETD
Elev=1339.99
6158+10.07 17.71' SR320EB
Curb Top=1339.80, FG1339.47
6158+49.24 25.54' SR320EB
Elev=1339.17
3632+00
3633+00
3634+00
2632+00
2633+00
2634+00
7157+00
7158+00
6157+00
6158+00
6159+00
Constant 2% slope
Constant 1% slope
Special Shaping
Uniform Transition
Uniform Trans.
Constant 1% slope
Constant 2% slope
Special Shaping
Constant 2% slope
Constant 1% slope
Special Shaping
Constant 2% slope
Constant 2% slope
Special Shaping
Constant 1% slope
Constant 2% slope
Constant 2% slope
Uniform Transition
Constant 2% slope
Constant 2% slope
Constant 1% slope
Special Shaping
Constant 2% slope
Constant 2% slope
Constant 1% slope
Special Shaping
Constant 2% slope
Uniform Trans.
Constant 2% slope
Constant 2% slope
Constant 2% slope
Constant 1% slope
Special Shaping
Constant 2% slope
Uniform Transition
Constant 1% slope
Special Shaping
Constant 2% slope
Constant 2% slope
Constant 1% slope
Special Shaping
Constant 2% slope
Constant 2% slope
Uniform Transition
Constant 1% slope
Special Shaping
Constant 2% slope
Constant 2% slope
Constant 1% slope
Special Shaping
Constant 2% slope
Constant 2% slope
Uniform Transition

WB

23.06' SR320WB
339.95, FG=1339.45

7159+00

7160+00

6160+38.24 23.20' SR320EB
Elev=1340.88

7161+00

6161+20.73 13.97' SR320EB
Elev=1340.90

7162+00

7163+00

7164+00

7165+00

6159+00

6160+00

6161+00

6162+00

6163+00

6164+00

6165+00

Constant 4% slope

Constant 2% slope

Constant 3% slope

Uniform Transition

6159+00.00 20.00'
SR320EB

6159+81.15 2.50'
SR320EB

6159+93.00 0.03' SR320EB
Elev=1340.75

6160+32.54 13.32' SR320EB
Elev=1340.70

6161+40.00 24.00' SR320EB
Elev=1340.47

6163+20.00 24.00' SR320EB
Elev=1339.82

6164+35.43 12.00' SR320EB
Elev=1339.77

6164+35.43 12.00' SR320EB
Elev=1339.77

6163+79.67 24.02' SR320EB
Elev=1339.97

26+16.58 43.13'
SR2

25+94.08 30.06'
SR2

26+27.07 17.53'
SR2

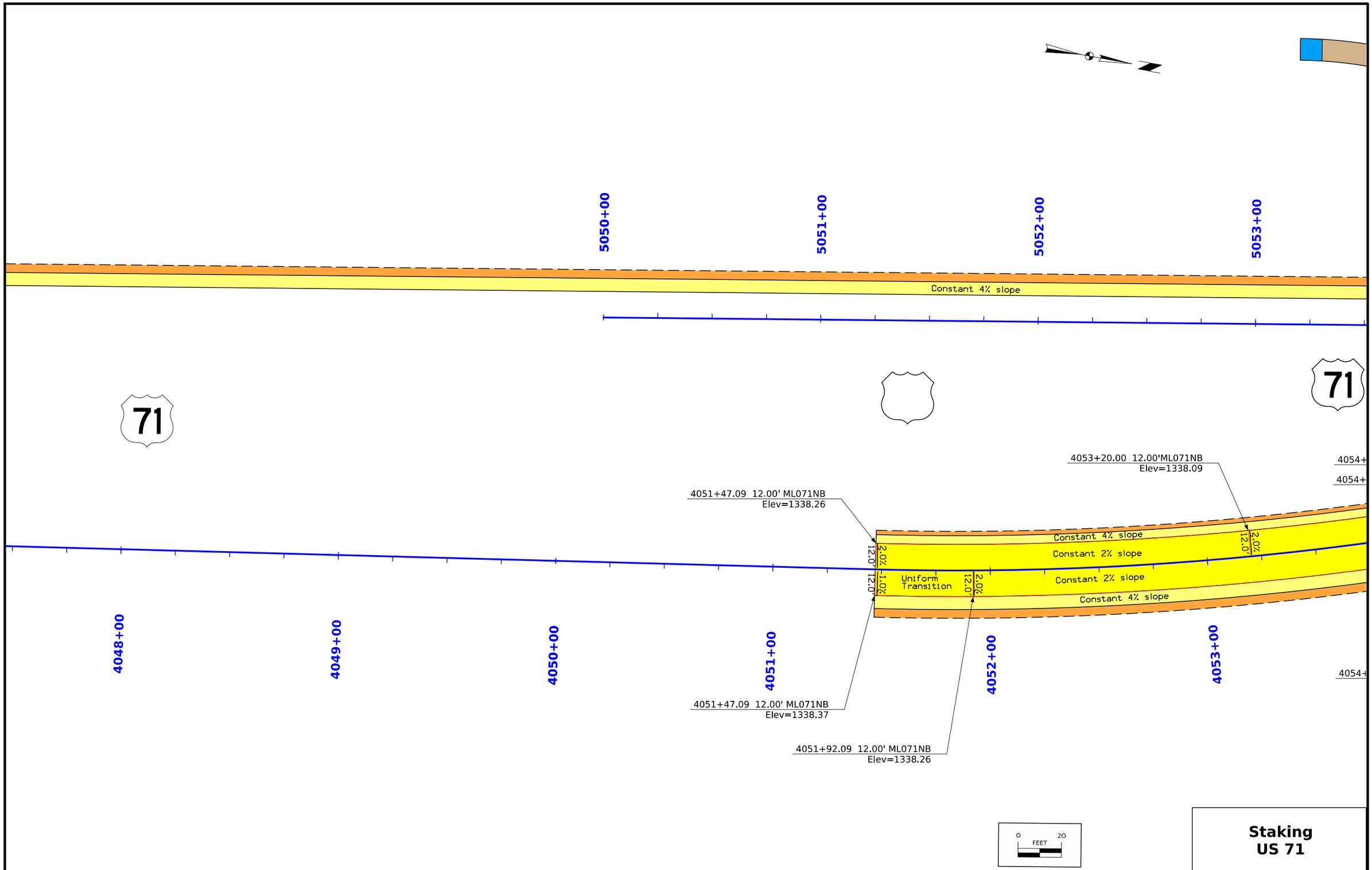
25+94.04 17.48'
SR2

0 20
FEET

320th St Staking

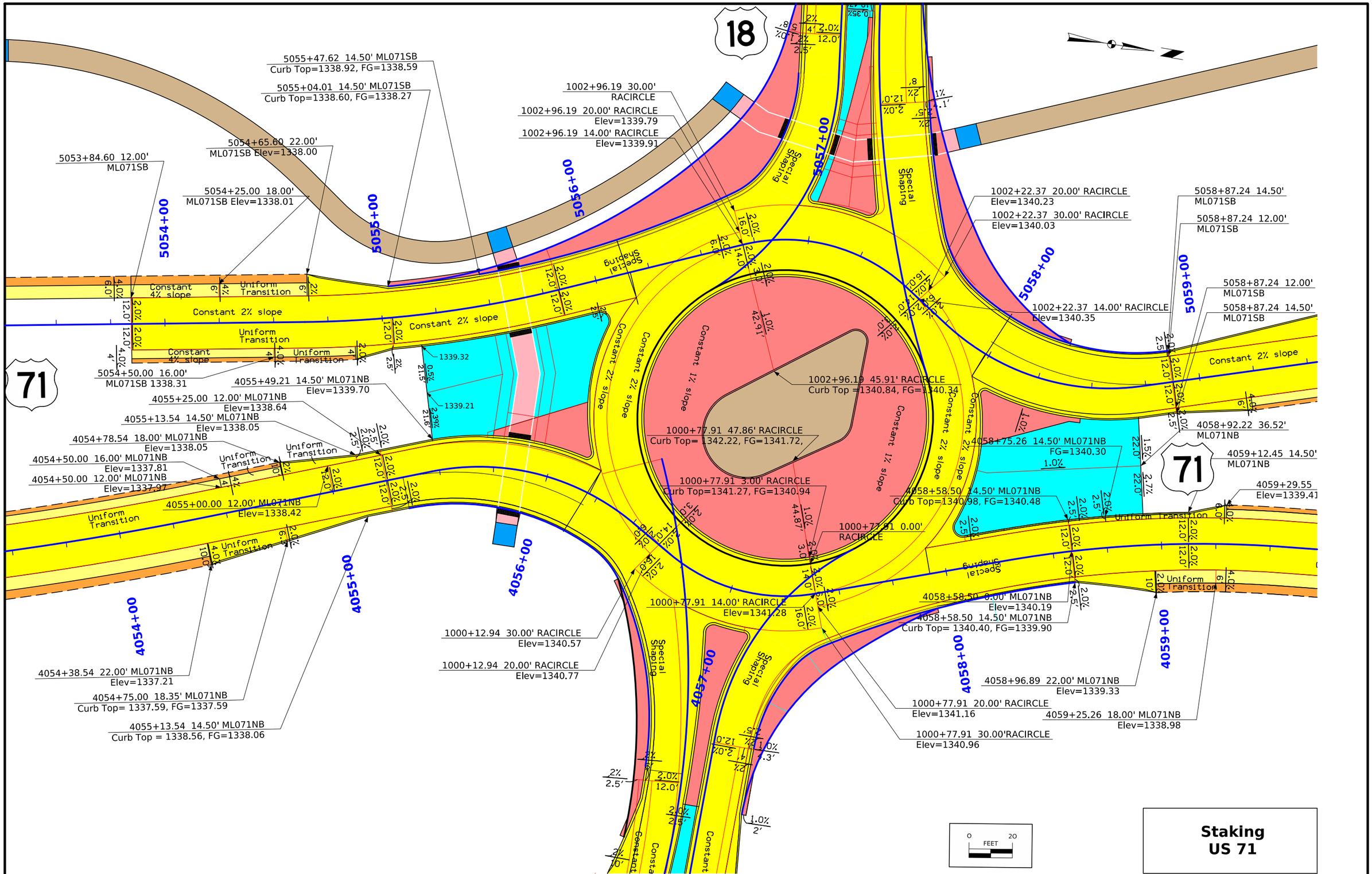
FILE NO.	ENGLISH	DESIGN TEAM **Strum/Janus**	**CLAY** COUNTY	PROJECT NUMBER **HSIPX-018-2(142)--3H-21**	SHEET NUMBER **L.7**

4:10:03 PM 6/29/2026 ajanus2 pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\2101802023\Design\CADD_Files\Sheet_Files\SHT_21018142_L02.dgn



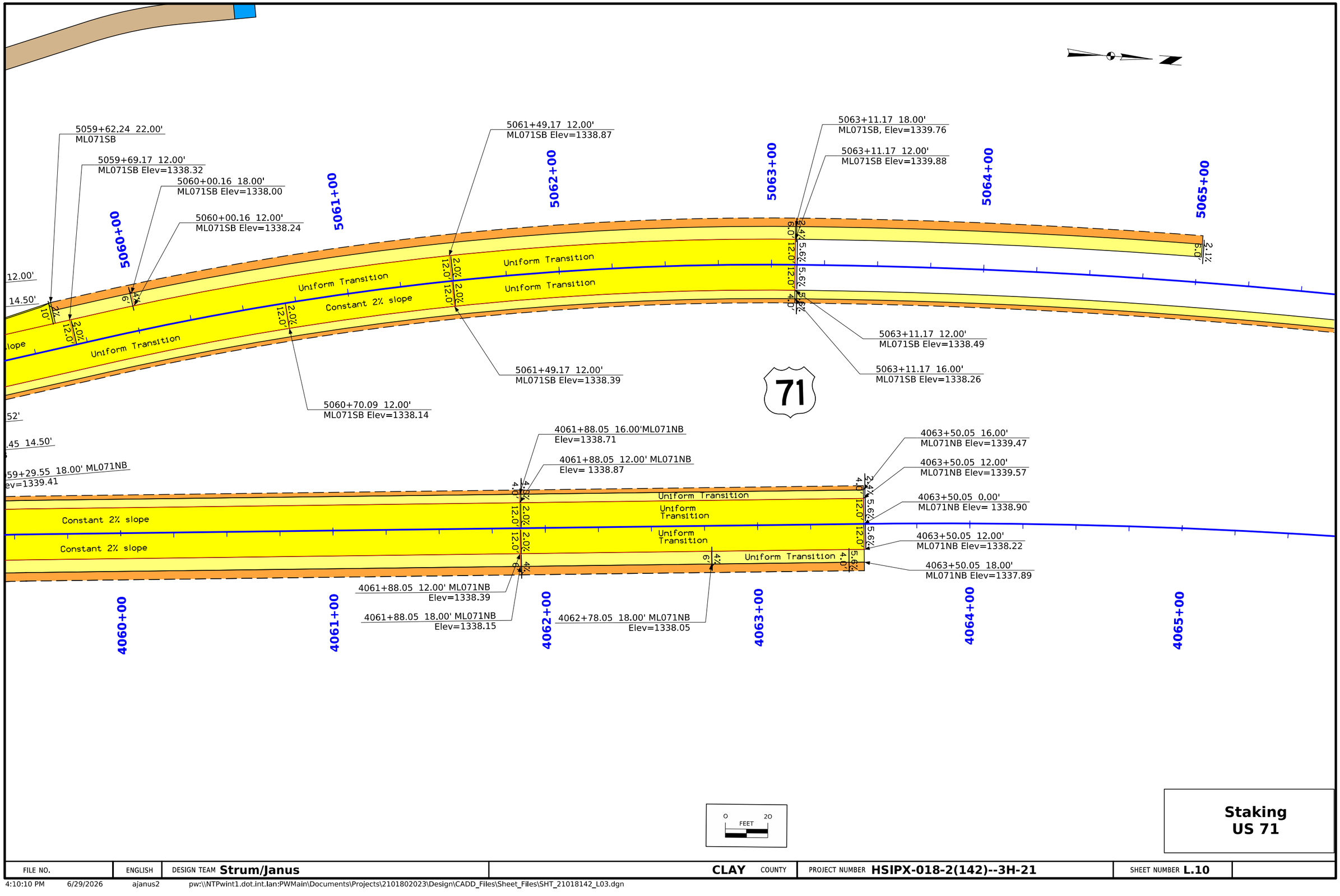
FILE NO.	ENGLISH	DESIGN TEAM **Strum/Janus**	**CLAY** COUNTY	PROJECT NUMBER **HSIPX-018-2(142)--3H-21**	SHEET NUMBER **L.8**

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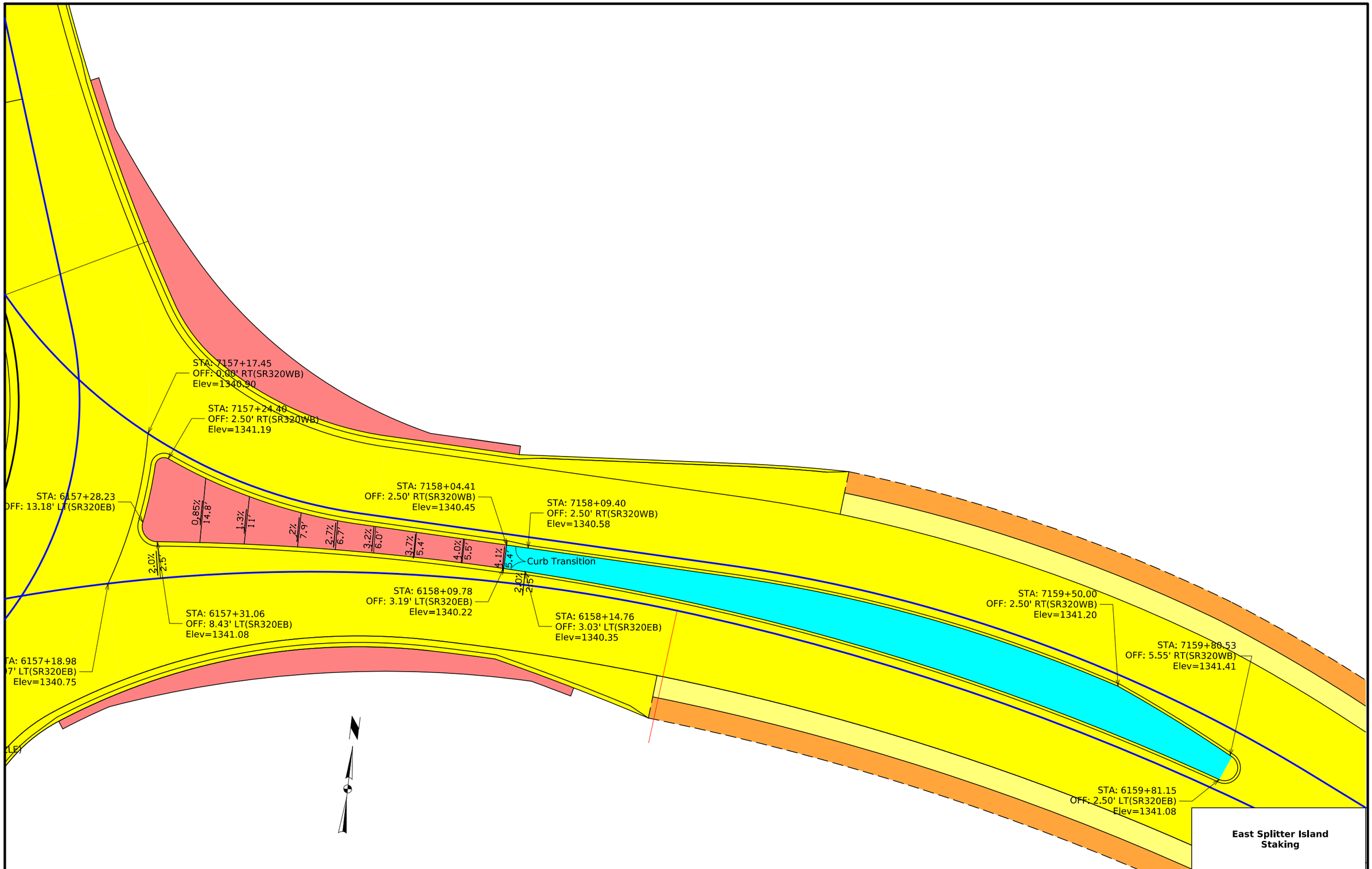
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FILE NO.	ENGLISH	DESIGN TEAM **Strum/Janus**	**CLAY** COUNTY	PROJECT NUMBER **HSIPX-018-2(142)--3H-21**	SHEET NUMBER **L.10**

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FILE NO.	ENGLISH	DESIGN TEAM Strum/Janus	CLAY COUNTY	PROJECT NUMBER HSIPX-018-2(142)--3H-21	SHEET NUMBER L.11

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STA: 5058+69.00
OFF: 36.34' RT(ML071SB)

STA: 5058+70.06
OFF: 14.36' RT(ML071SB)
Elev=1340.35

STA: 4058+92.22
OFF: 36.52' LT(ML071NB)
Elev=1340.01

STA: 4058+92.13
OFF: 14.50' LT (ML071NB)
Elev=1340.56

STA: 5058+47.57
OFF: 15.94' RT(ML071SB)
Elev=1340.43

1.5%
22.0'

2.7%
22.0'

STA: 5058+47.59
OFF: 13.94' RT(ML071SB)
Elev=1340.43

STA: 5058+43.18
OFF: 15.91' RT(ML071SB)
Elev=1340.49

1.0%

STA: 5058+06.29
OFF: 14.23' RT(ML071SB)
Elev=1340.86

STA: 4058+26.22
OFF: 41.30' LT(ML071NB)
Elev=1341.17

1.0%

STA: 4058+11.07
OFF: 14.50' LT(ML071NB)
Elev=1341.46

STA: 5058+04.91
OFF: 17.38' RT(ML071SB)
Elev=1340.88

STA: 5058+13.13
OFF: 38.07' RT(ML071SB)
Elev=1341.03

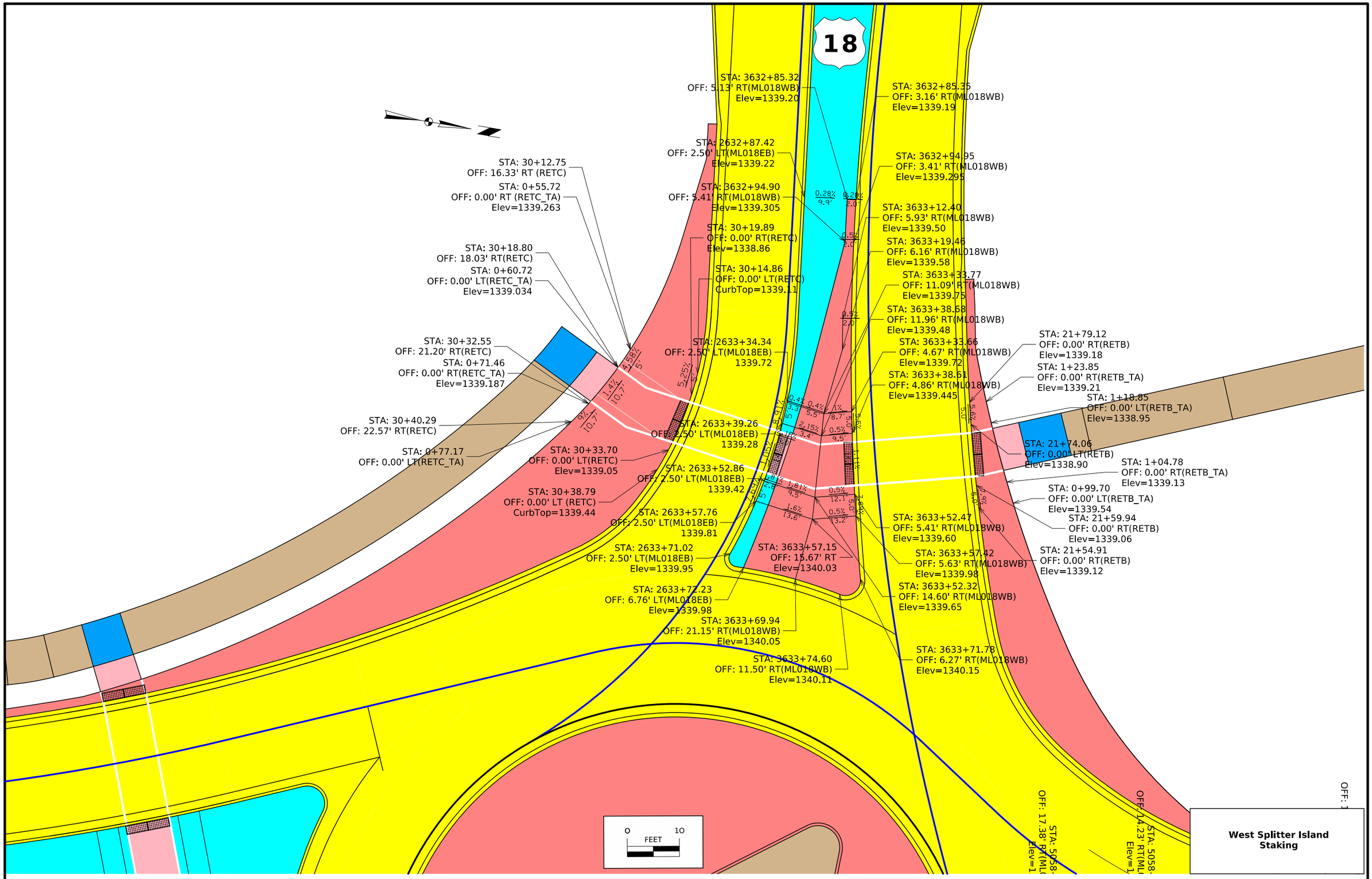
STA: 4058+21.84
OFF: 43.22' LT(ML071NB)
Elev=1341.25

STA: 4058+08.05
OFF: 21.07' LT(ML071NB)
Elev=1341.40

North Splitter Island Staking

FILE NO.	ENGLISH	DESIGN TEAM Strum/Janus	CLAY COUNTY	PROJECT NUMBER HSIPX-018-2(142)--3H-21	SHEET NUMBER L.12	

4:10:20 PM 6/29/2026 ajanus2 pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\2101802023\Design\CADD_Files\Sheet_Files\SHT_21018142_L04.dgn



FILE NO.	ENGLISH	DESIGN TEAM Strum/Janus	CLAY COUNTY	PROJECT NUMBER HSIPX-018-2(142)--3H-21	SHEET NUMBER L.13

STA: 4056+04.01
OFF: 53.43' LT (ML071NB)
Elev=1340.42

STA: 1003+69.85
OFF: 23.51' RT(RACIRCLE)

STA: 4055+93.14
OFF: 47.03' LT (ML071NB)
Elev=1340.13

STA: 5055+72.50
OFF: 36.99' RT (ML071SB)

STA: 4056+05.17
OFF: 43.26' LT(ML071NB)
Elev=1340.48

STA: 1003+77.51
OFF: 23.21' RT(RACIRCLE)

STA: 1003+53.76
OFF: 24.00' RT(RACIRCLE)

STA: 4056+06.10
OFF: 38.42' LT (ML071NB)
Elev=1340.37

STA: 1003+81.24
OFF: 23.09' RT (RACIRCLE)

STA: 1003+98.57
OFF: 22.51' RT(RACIRCLE)

STA: 4055+89.67
OFF: 45.87' LT (ML071NB)
Elev=1339.64

STA: 5055+73.17
OFF: 14.50' RT(ML071SB)
Elev=1339.84

STA: 5055+67.85
OFF: 36.00' RT(ML071SB)

STA: 5055+68.31
OFF: 14.50' RT(ML071SB)
Elev=1339.29

STA: 4055+90.42
OFF: 25.54' LT (ML071NB)
Elev=1339.96

STA: 4055+95.36
OFF: 14.50' LT (ML071NB)
Elev=1340.31

STA: 4055+90.93
OFF: 14.50' LT (ML071NB)
Elev=1339.91

STA: 1+86.07
OFF: 0.00' RT(RETC_TA)
1339.25

STA: 5055+74.14
OFF: 14.57' LT
Curb Top Elev=1339.21

Curb Transition

STA: 5055+68.99
OFF: 14.55' LT
1338.82

STA: 1+91.06
OFF: 0.00' RT (RETC_TA)
Elev=1338.86

STA: 5055+54.58
OFF: 14.50' LT
1338.66

Curb Transition

STA: 4055+78.55
OFF: 14.50' LT (ML071NB)
Elev=1339.69

STA: 2+05.05
OFF: 0.00' LT(RETC_TA)
1338.69

STA: 5055+49.44
OFF: 14.50' LT
CurbTop1338.94

STA: 5055+54.76
OFF: 33.47' RT(ML071SB)

STA: 4055+79.71
OFF: 43.46' LT (ML071NB)
Elev=1339.46

STA: 4055+74.10
OFF: 14.50' LT (ML071NB)
Elev=1339.93

STA: 2+10.04
OFF: 0.00' LT (RETC_TA)
Elev=1338.96

STA: 4055+76.09
OFF: 42.91' LT (ML071NB)

STA: 5055+54.69
OFF: 14.50' RT(ML071SB)
Elev=1339.14

STA: 5055+50.06
OFF: 32.65' RT(ML071SB)
Elev=1339.72

STA: 4055+79.05
OFF: 25.53' LT (ML071NB)
Elev=1339.76

STA: 5055+49.83
OFF: 14.50' RT(ML071SB)
Elev=1339.57

STA: 4055+49.21
OFF: 14.48' LT(ML071NB)
Elev=1339.73

STA: 5055+16.68
OFF: 14.38' RT(ML071SB)
Elev=1339.32

STA: 4055+50.19
OFF: 36.05' LT (ML071NB)
Elev=1339.21

1.3% 22.5'
1.6% 21.51'
1.3% 18.84'
1.6% 20.35'
0.5% 13.81'
0.5% 11.05'
1.42% 16.97'
1.19% 14.1'
1.41% 14.07'
1.69% 18.97'
0.84% 18.15'
1.69% 17.95'
0.84% 18.15'
0.7% 11.06'
1.42% 35.76'
0.5% 12.48'
2.39% 21.60'

71

71

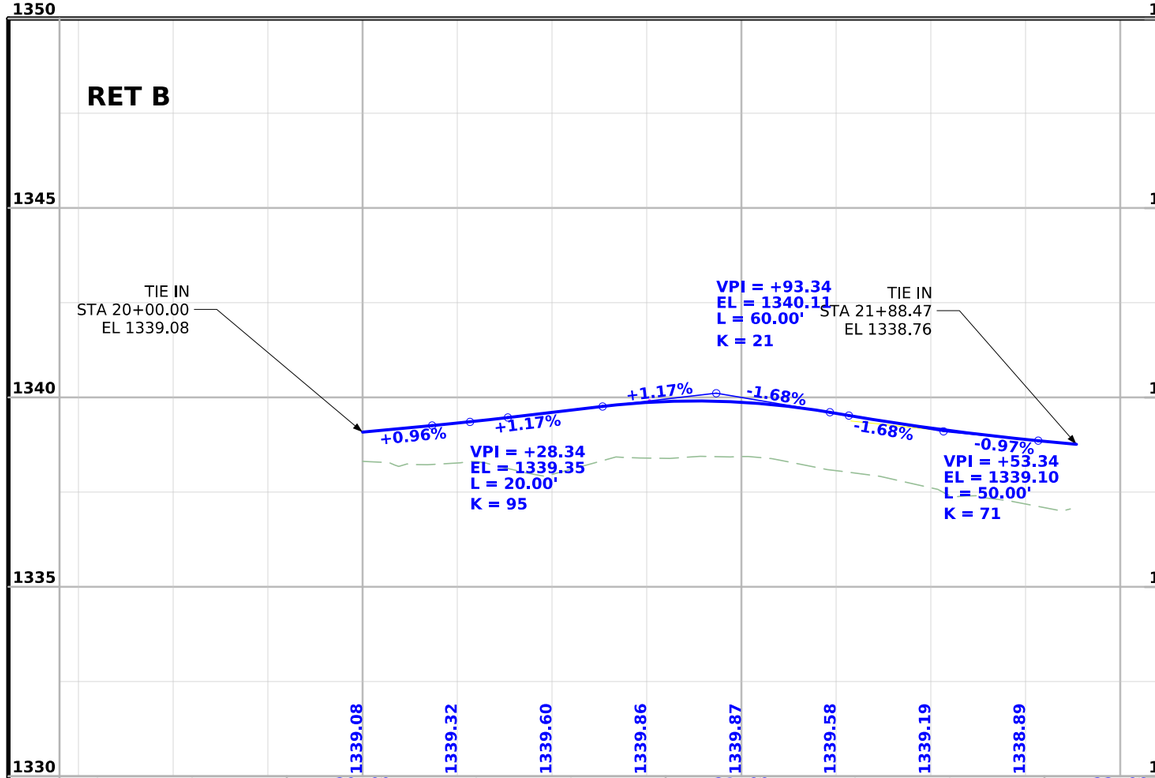
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South Splitter Island Staking

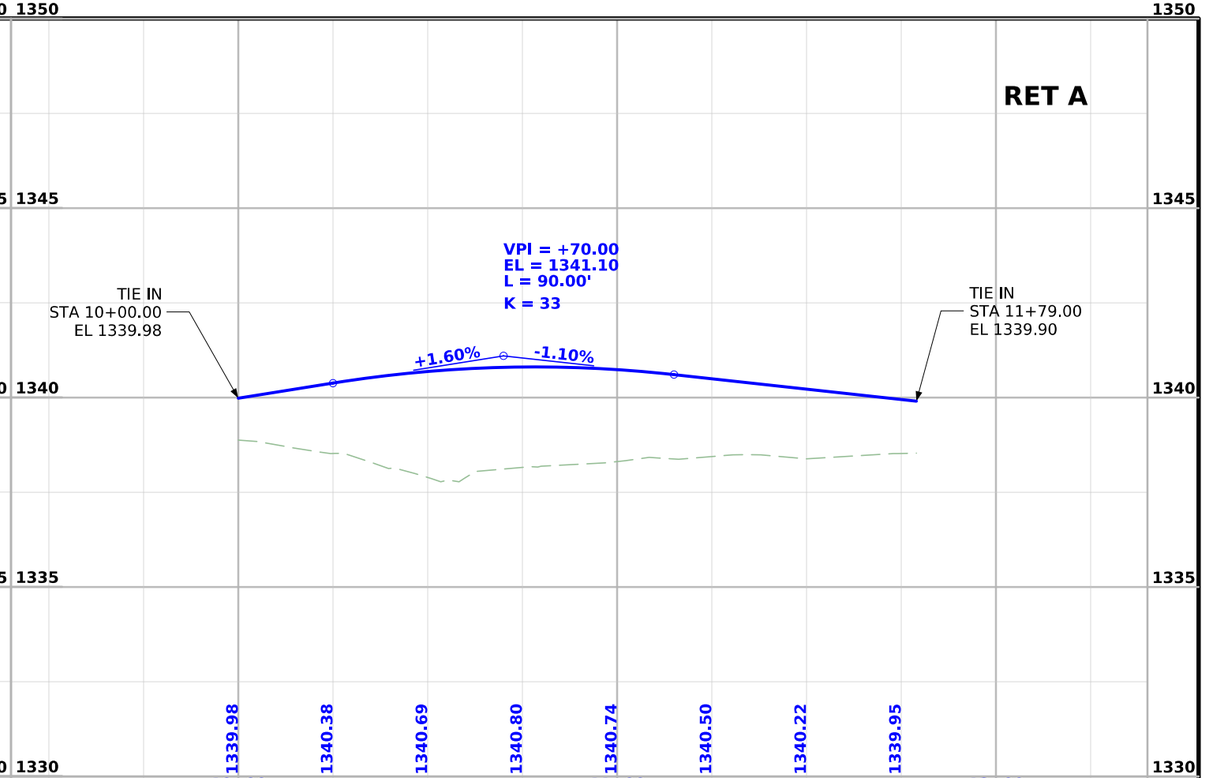
FILE NO.	ENGLISH	DESIGN TEAM Strum/Janus	CLAY COUNTY	PROJECT NUMBER HSIPX-018-2(142)--3H-21	SHEET NUMBER L.14

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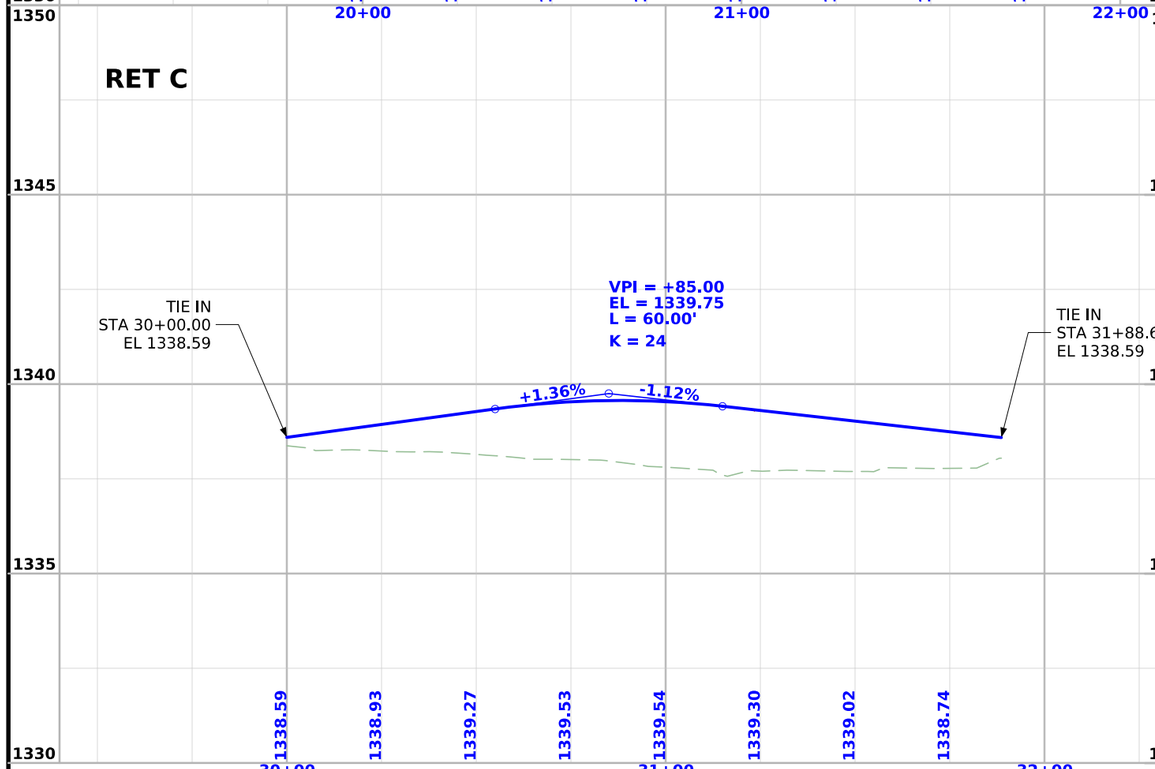
RET B



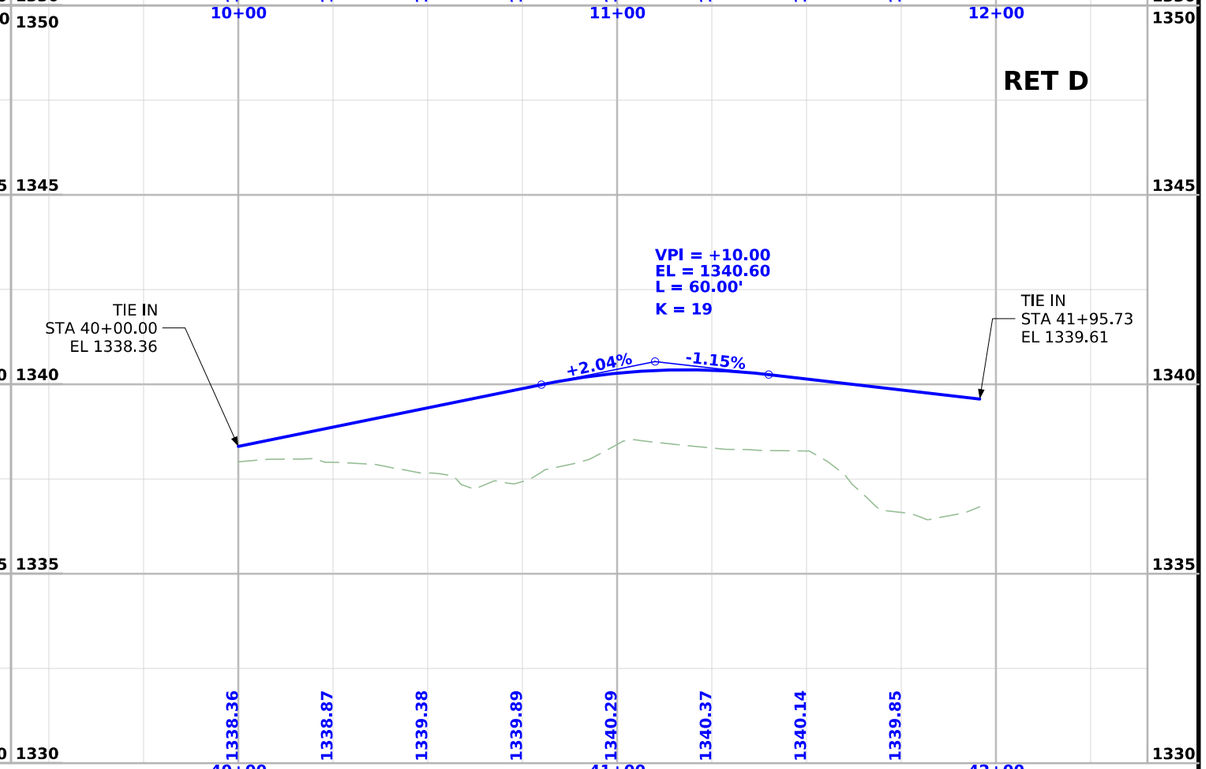
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RET C

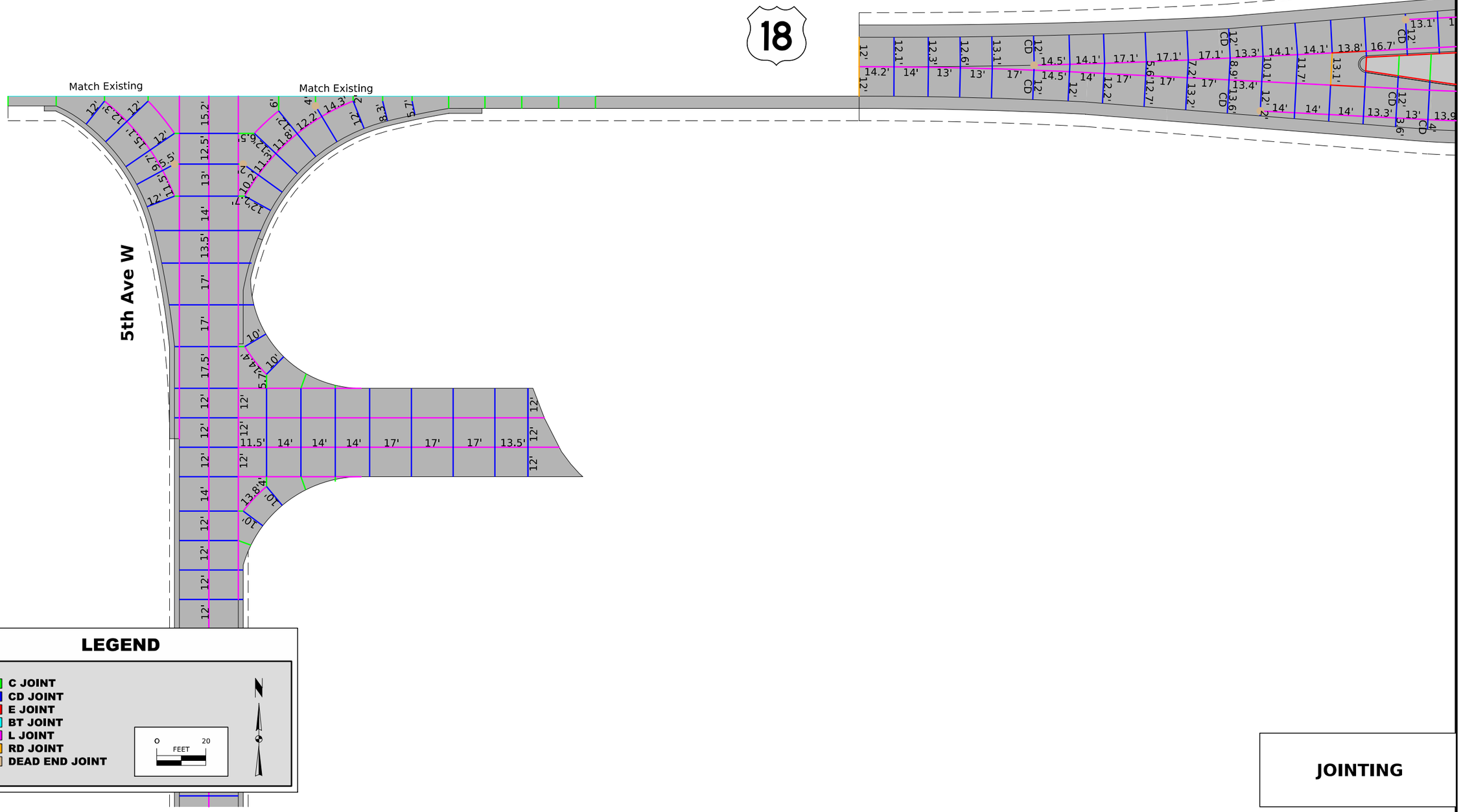


RET D



FILE NO.	ENGLISH	DESIGN TEAM Strum/Janus	CLAY COUNTY	PROJECT NUMBER HSIPX-018-2(142)--3H-21	SHEET NUMBER L.15

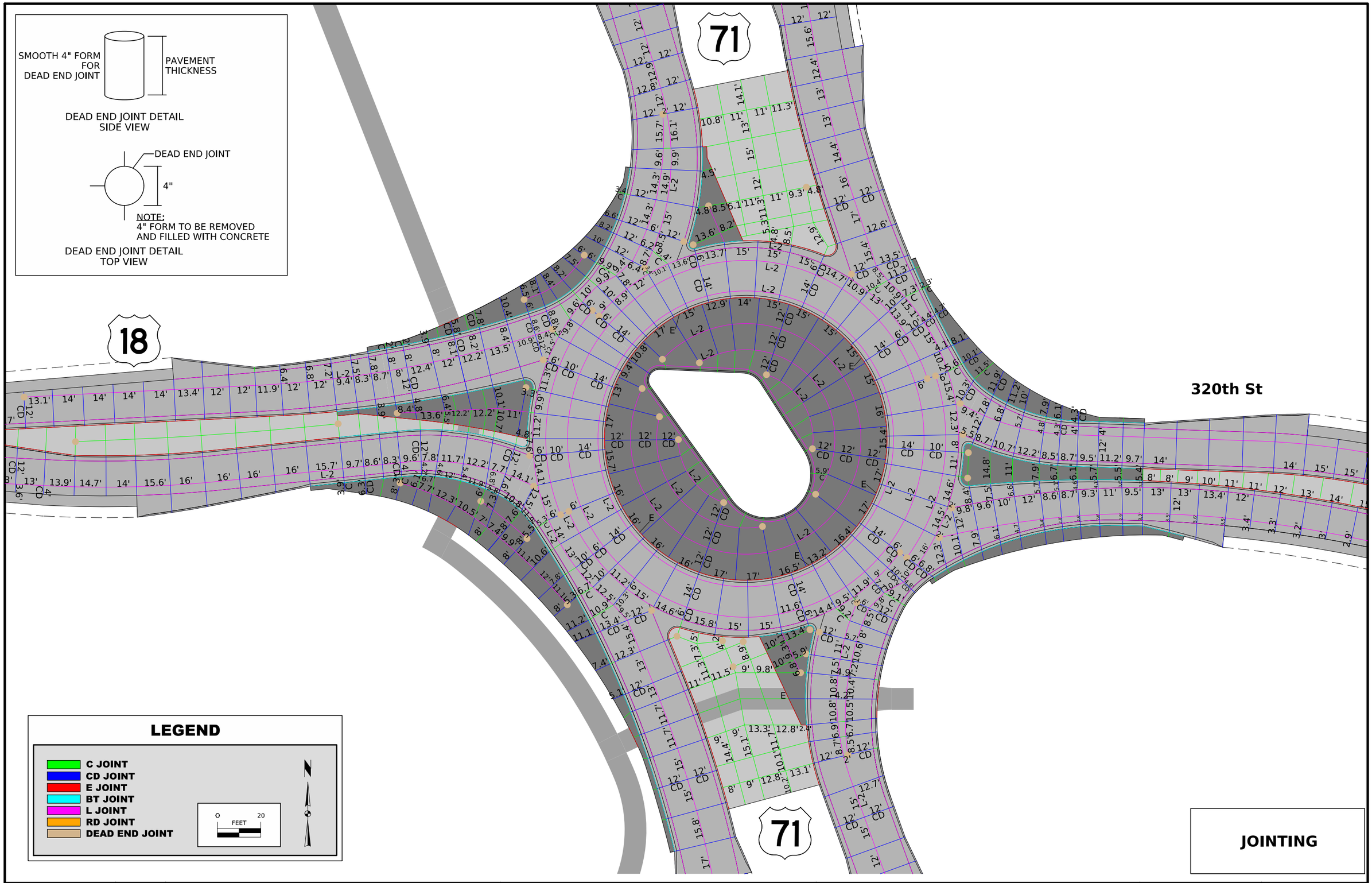
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JOINTING

FILE NO.	ENGLISH	DESIGN TEAM Strum/Janus	CLAY COUNTY	PROJECT NUMBER HSIPX-018-2(142)--3H-21	SHEET NUMBER L.16

12:01:26 PM 7/6/2026 ajanus2 pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\2101802023\Design\CADD_Files\Sheet_Files\SHT_21018142_L16_18.dgn



LEGEND

- C JOINT
- CD JOINT
- E JOINT
- BT JOINT
- L JOINT
- RD JOINT
- DEAD END JOINT

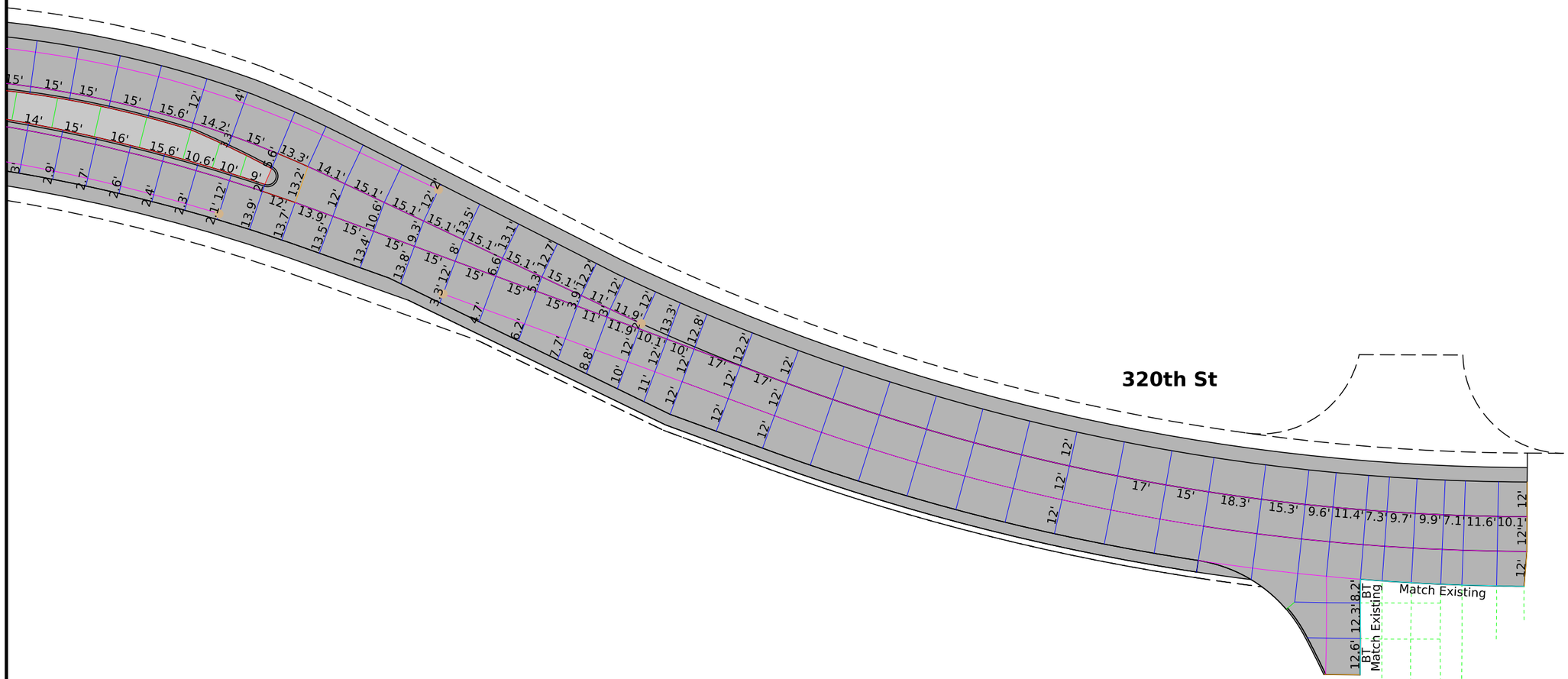
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JOINTING

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12:01:26 PM 7/6/2026 ajanus2 pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\2101802023\Design\CADD_Files\Sheet_Files\SHT_21018142_L16_18.dgn



LEGEND

- C JOINT
- CD JOINT
- E JOINT
- BT JOINT
- L JOINT
- RD JOINT
- DEAD END JOINT

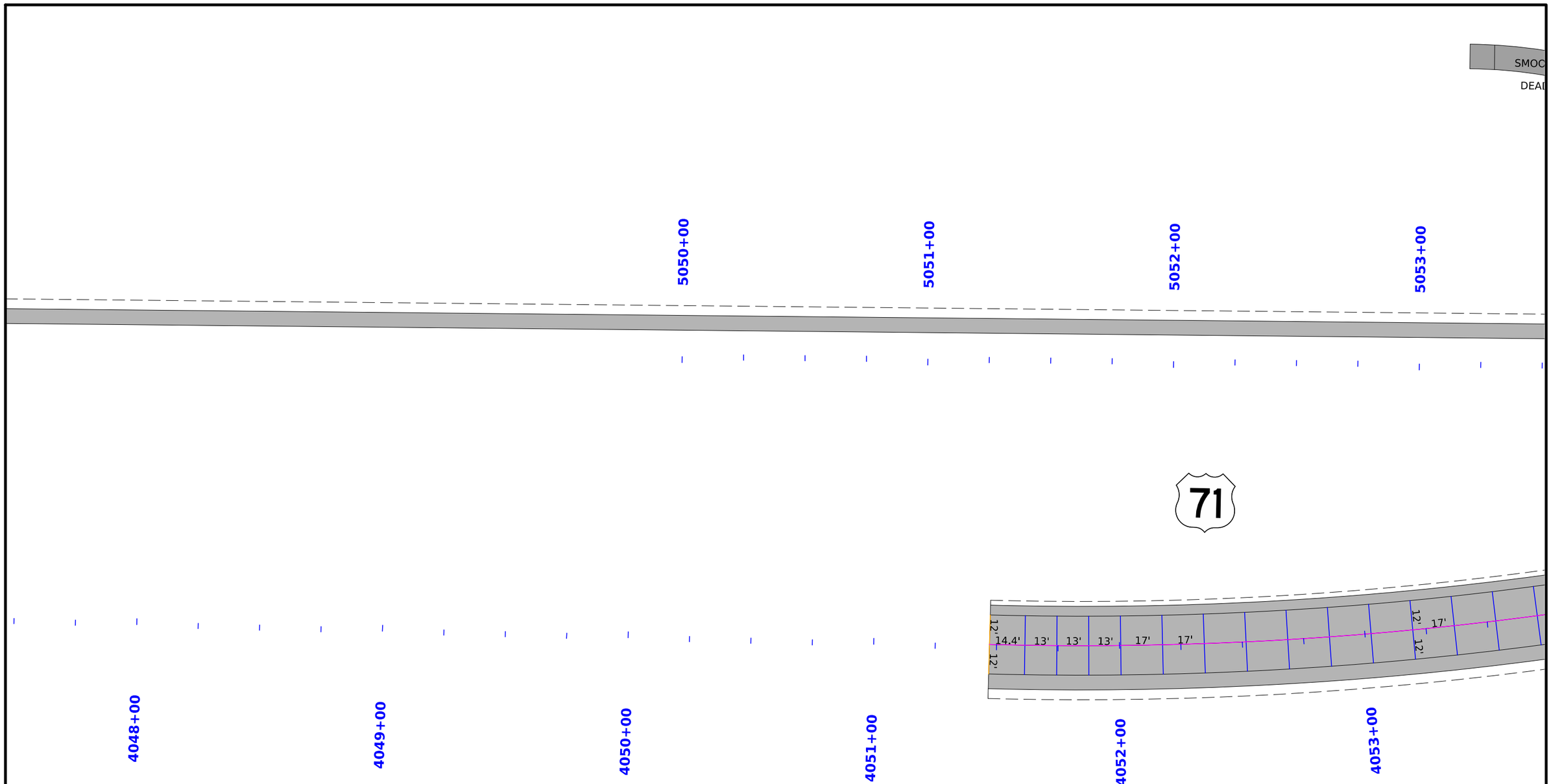
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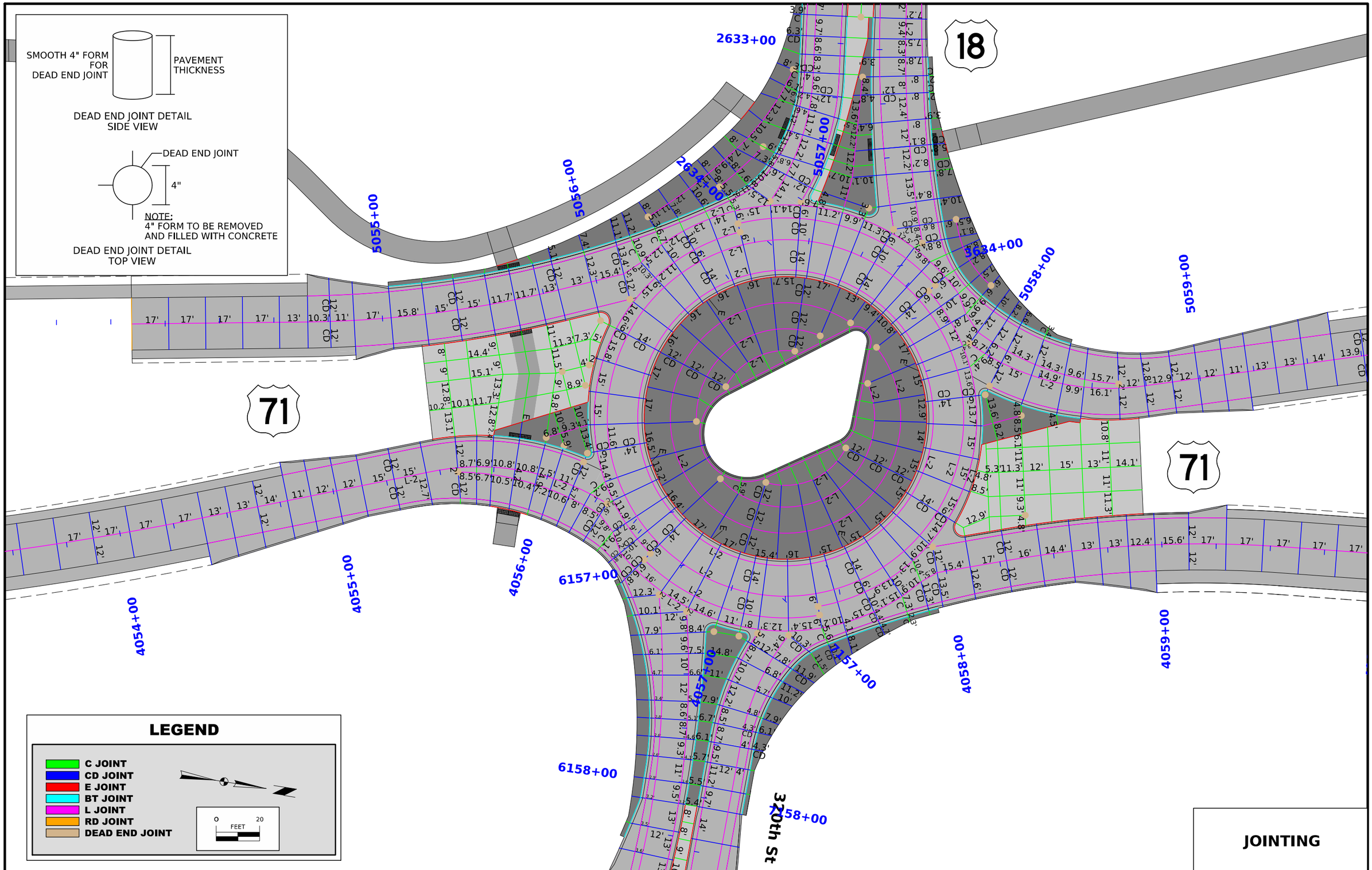
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JOINTING

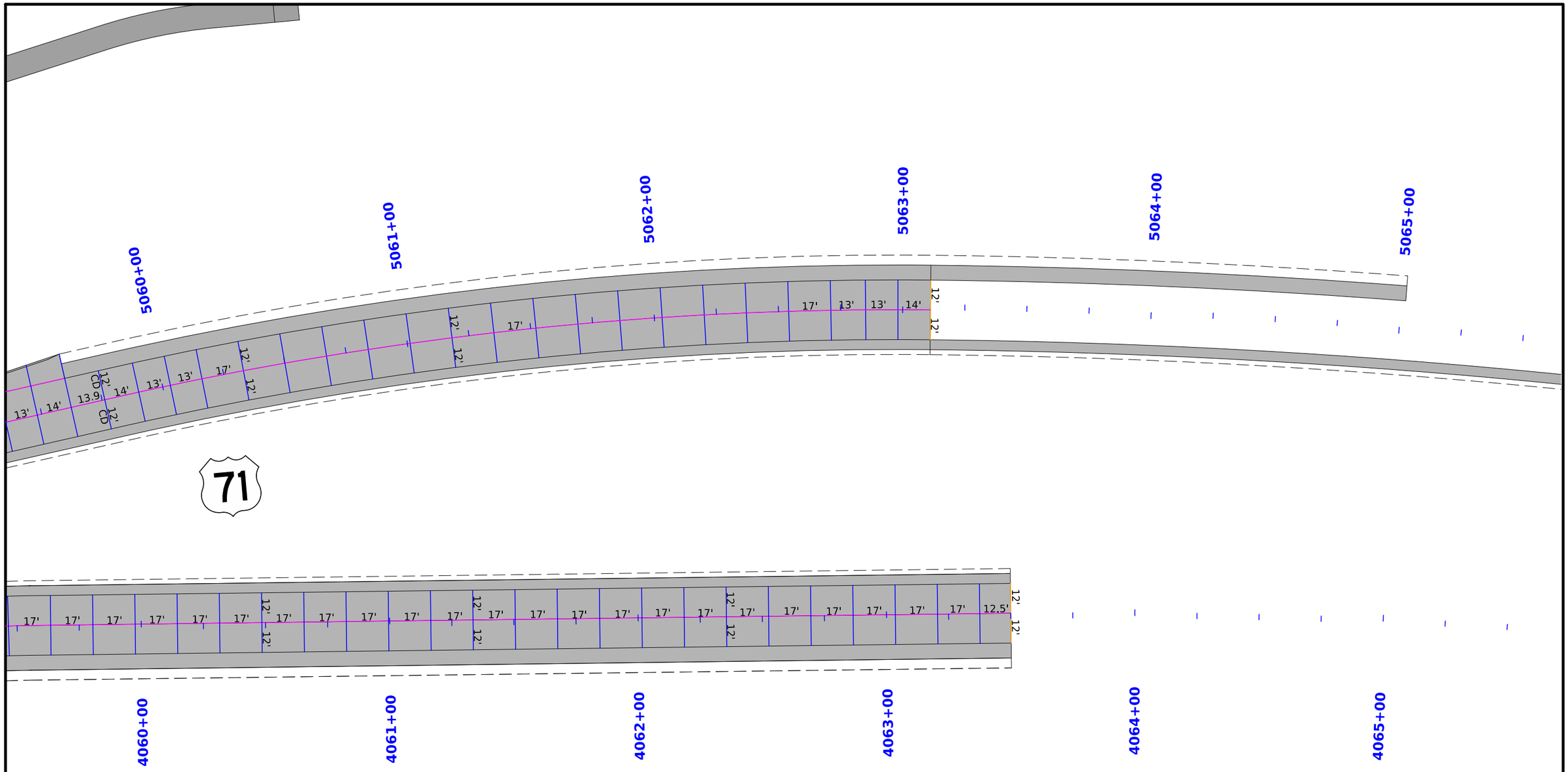
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FILE NO.	ENGLISH	DESIGN TEAM **Strum/Janus**	**CLAY** COUNTY	PROJECT NUMBER **HSIPX-018-2(142)--3H-21**	SHEET NUMBER **L.20**

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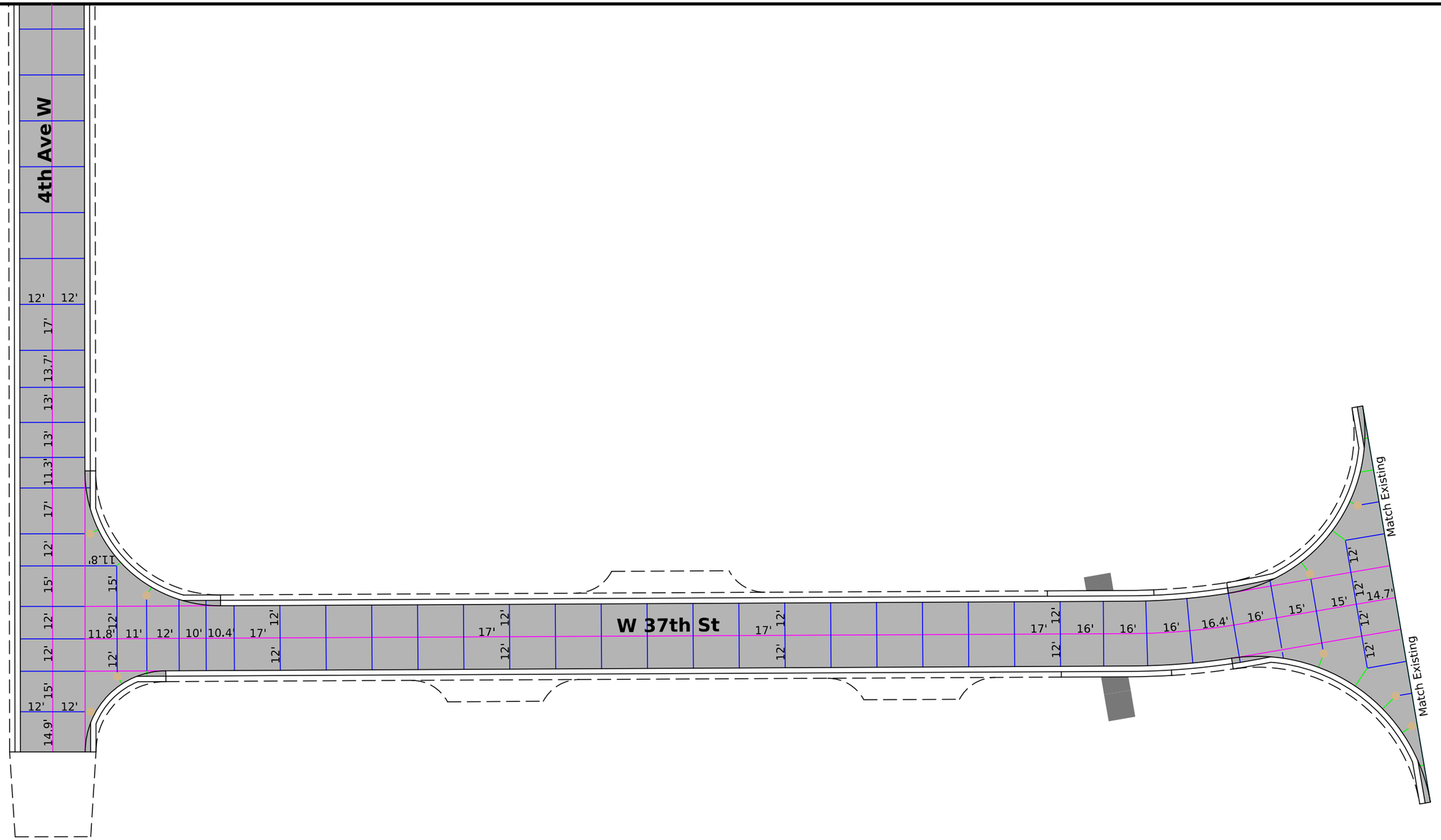
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- CD JOINT
- E JOINT
- BT JOINT
- L JOINT
- RD JOINT
- DEAD END JOINT

0 20 FEET

JOINTING

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LEGEND

- C JOINT
- CD JOINT
- E JOINT
- BT JOINT
- L JOINT
- RD JOINT
- DEAD END JOINT

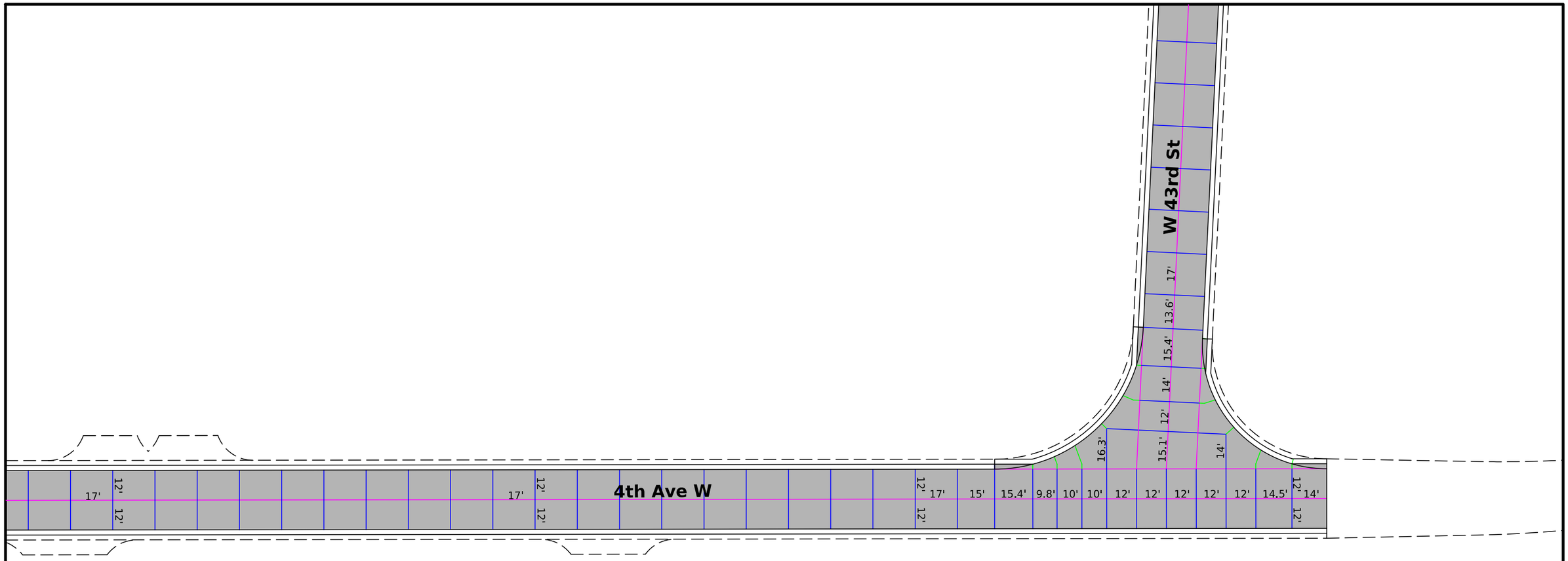
0 FEET 20

N

JOINTING
W 37TH ST

FILE NO.	ENGLISH	DESIGN TEAM Strum/Janus	CLAY COUNTY	PROJECT NUMBER HSIPX-018-2(142)--3H-21	SHEET NUMBER L.22

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LEGEND

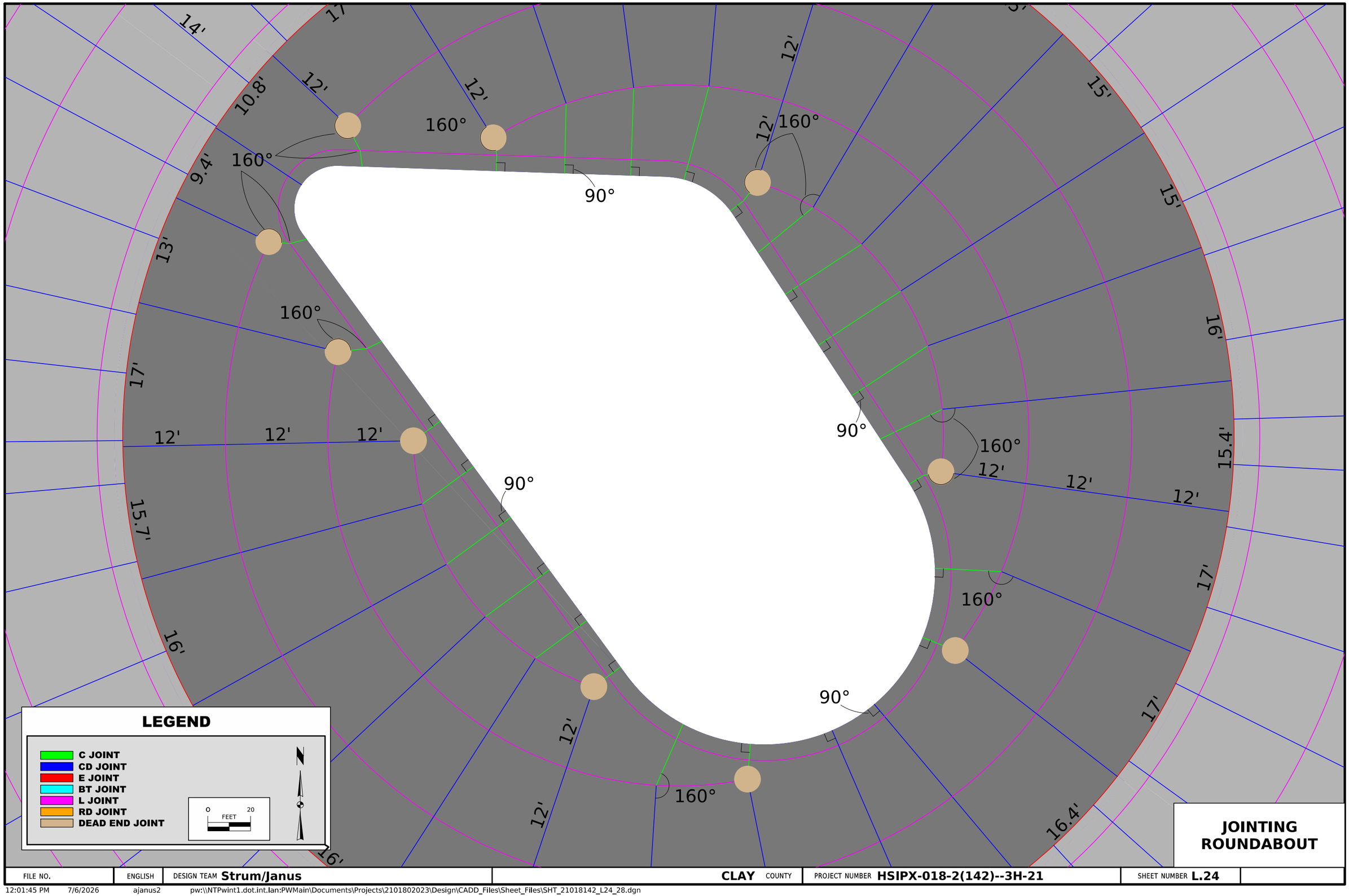
- C JOINT
- CD JOINT
- E JOINT
- BT JOINT
- L JOINT
- RD JOINT
- DEAD END JOINT

0 20 FEET

JOINTING
4th Ave/43rd St

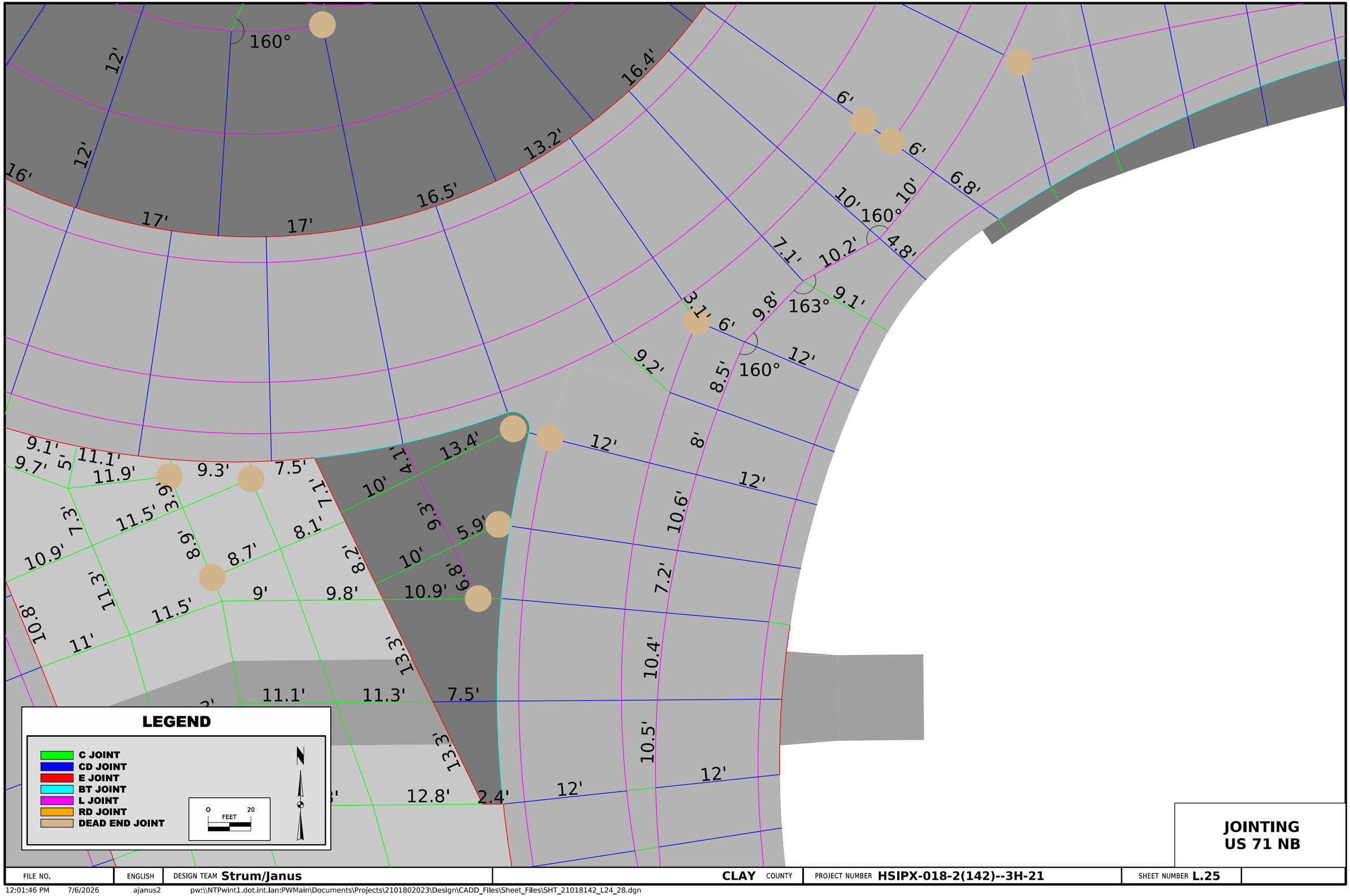
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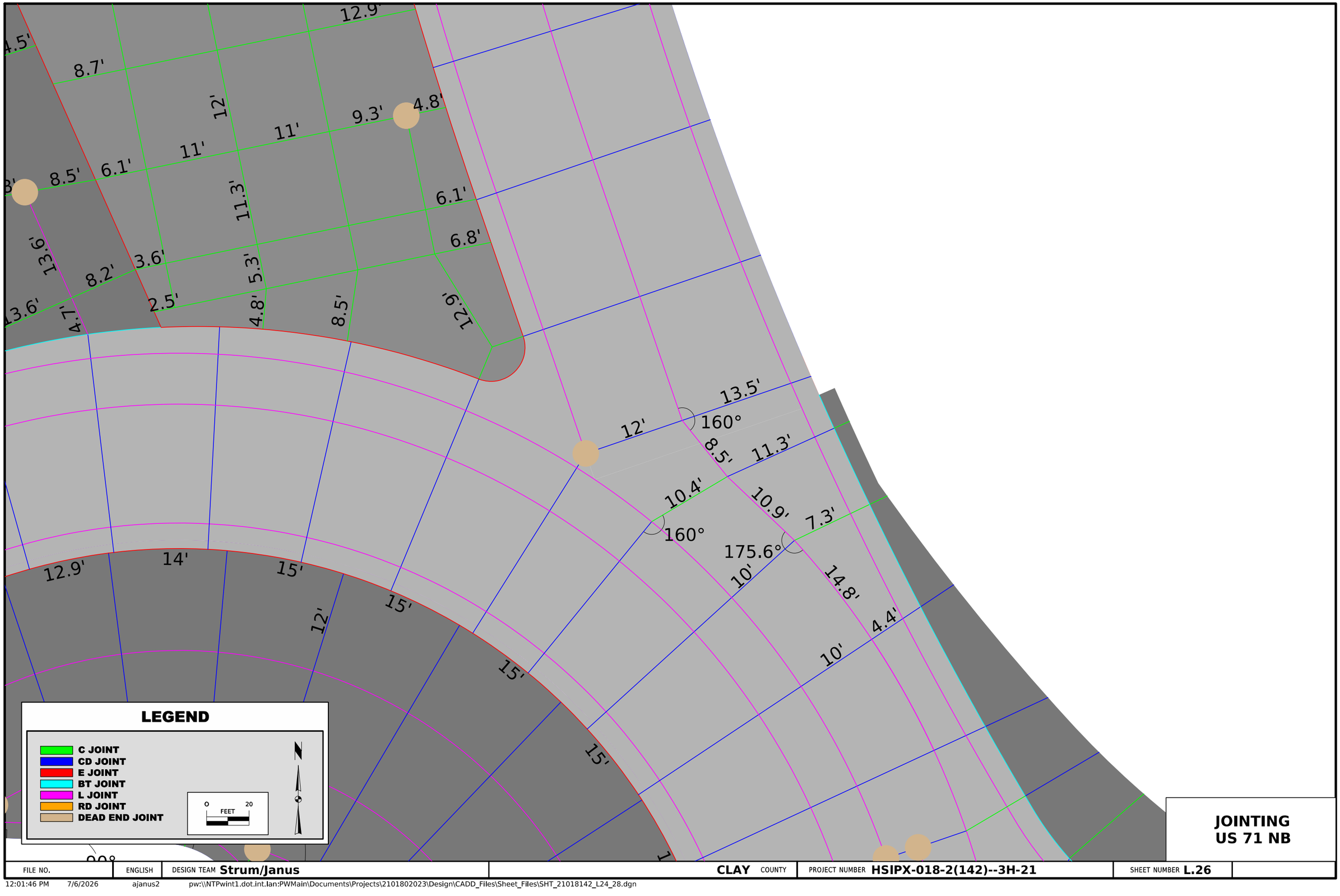
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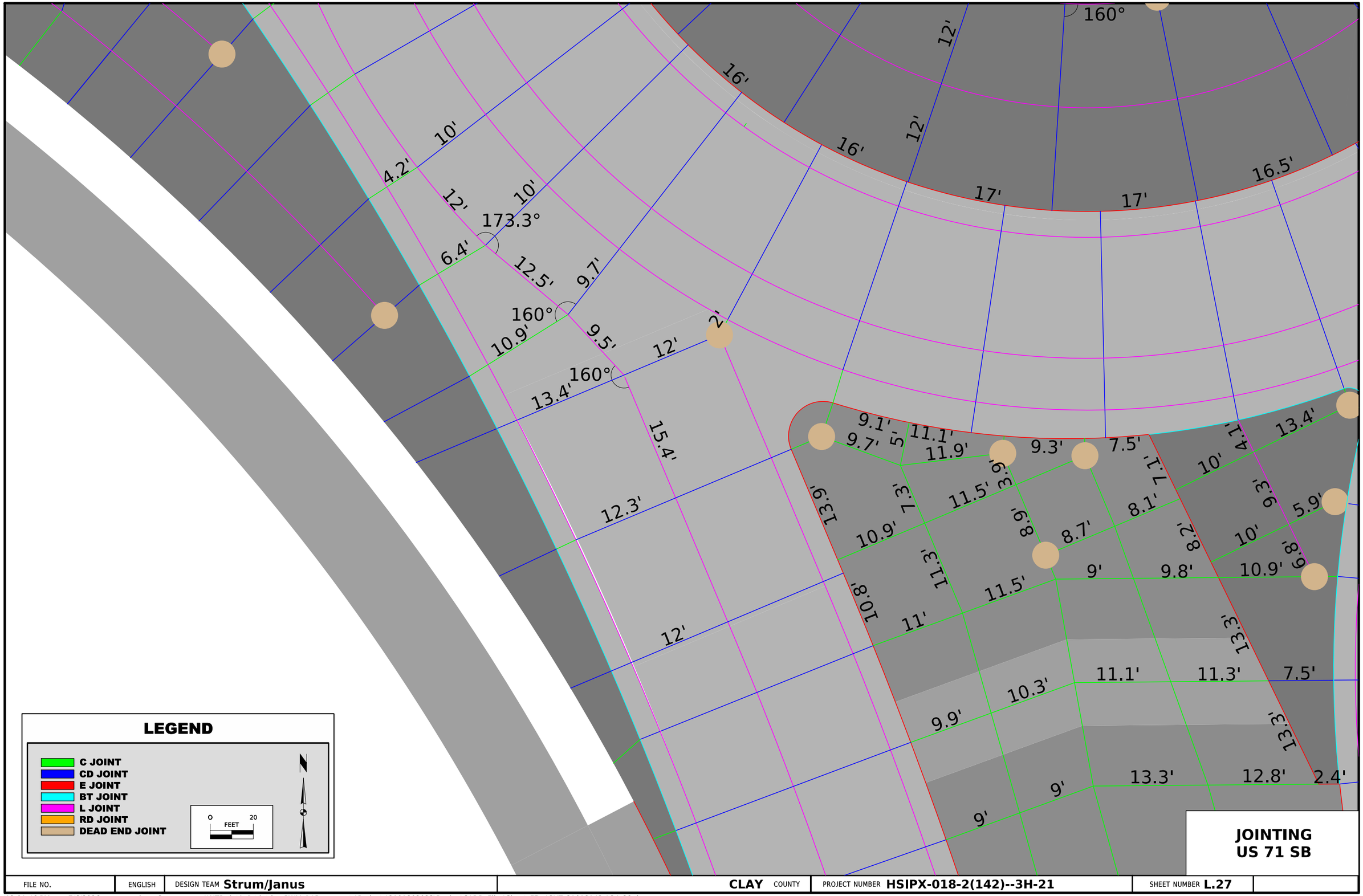


FILE NO.	ENGLISH	DESIGN TEAM Strum/Janus	CLAY COUNTY	PROJECT NUMBER HSIPX-018-2(142)--3H-21	SHEET NUMBER L.25

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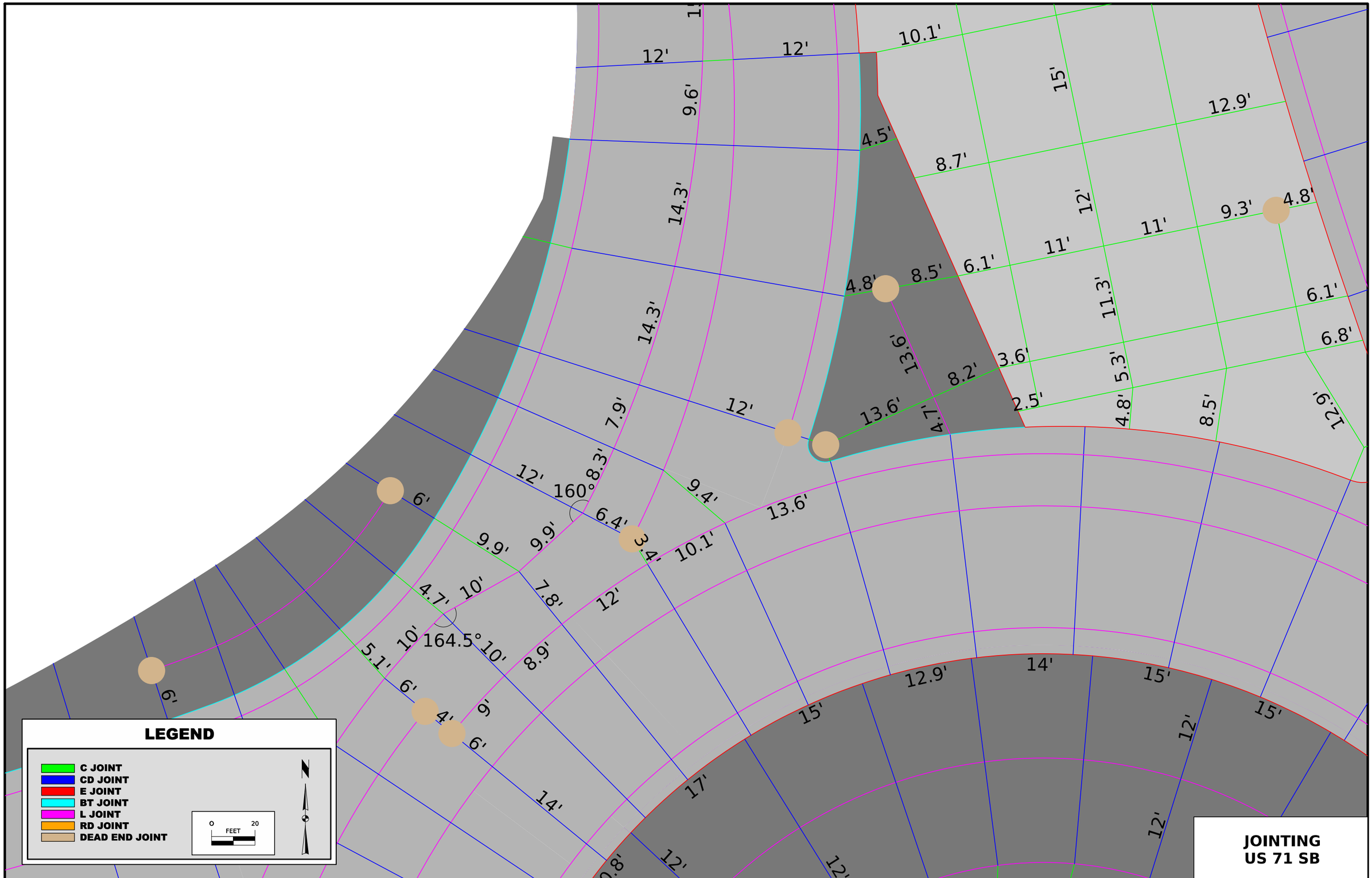


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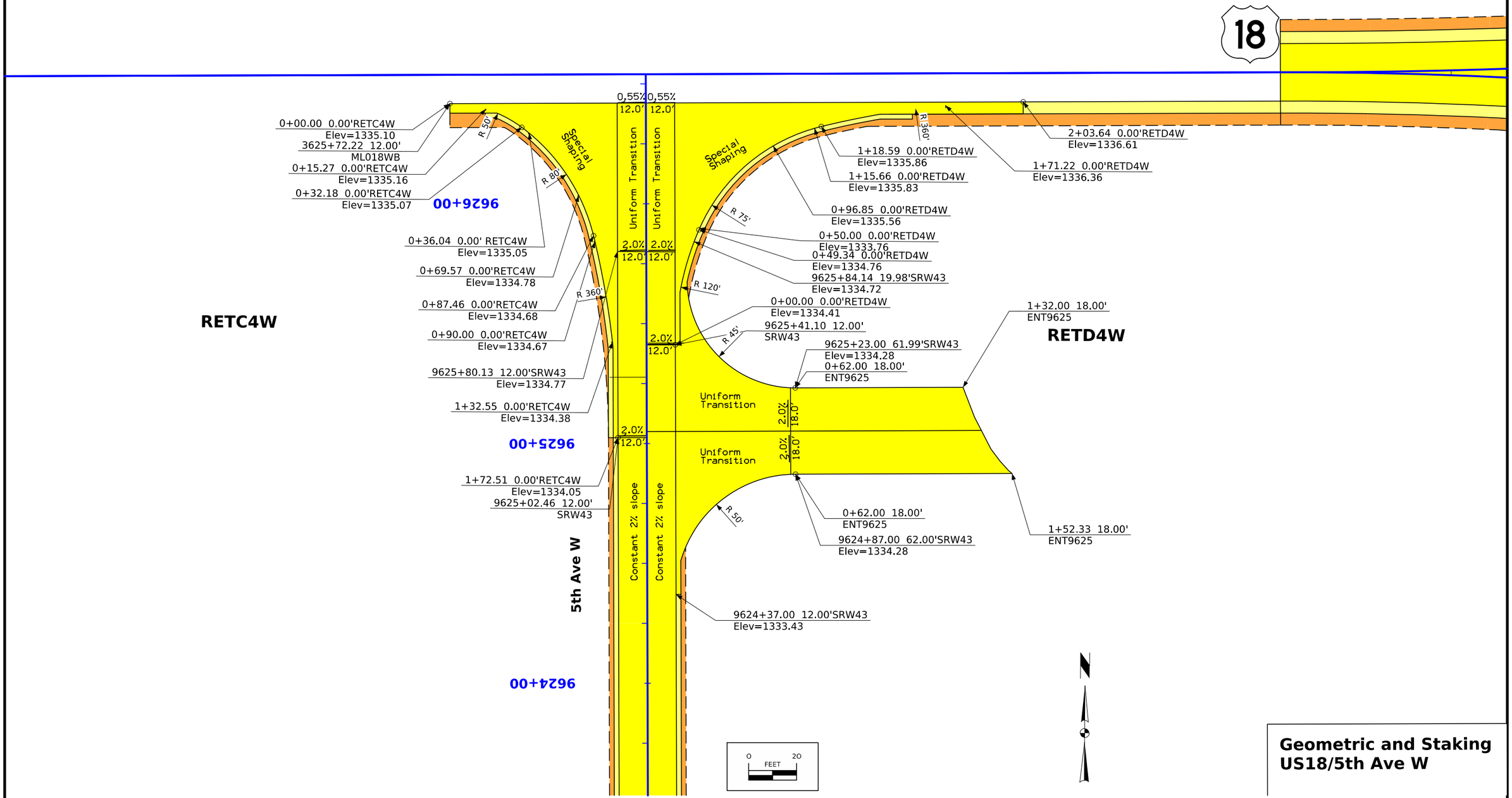
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FILE NO.	ENGLISH	DESIGN TEAM Strum/Janus	CLAY COUNTY	PROJECT NUMBER HSIPX-018-2(142)--3H-21	SHEET NUMBER L.28

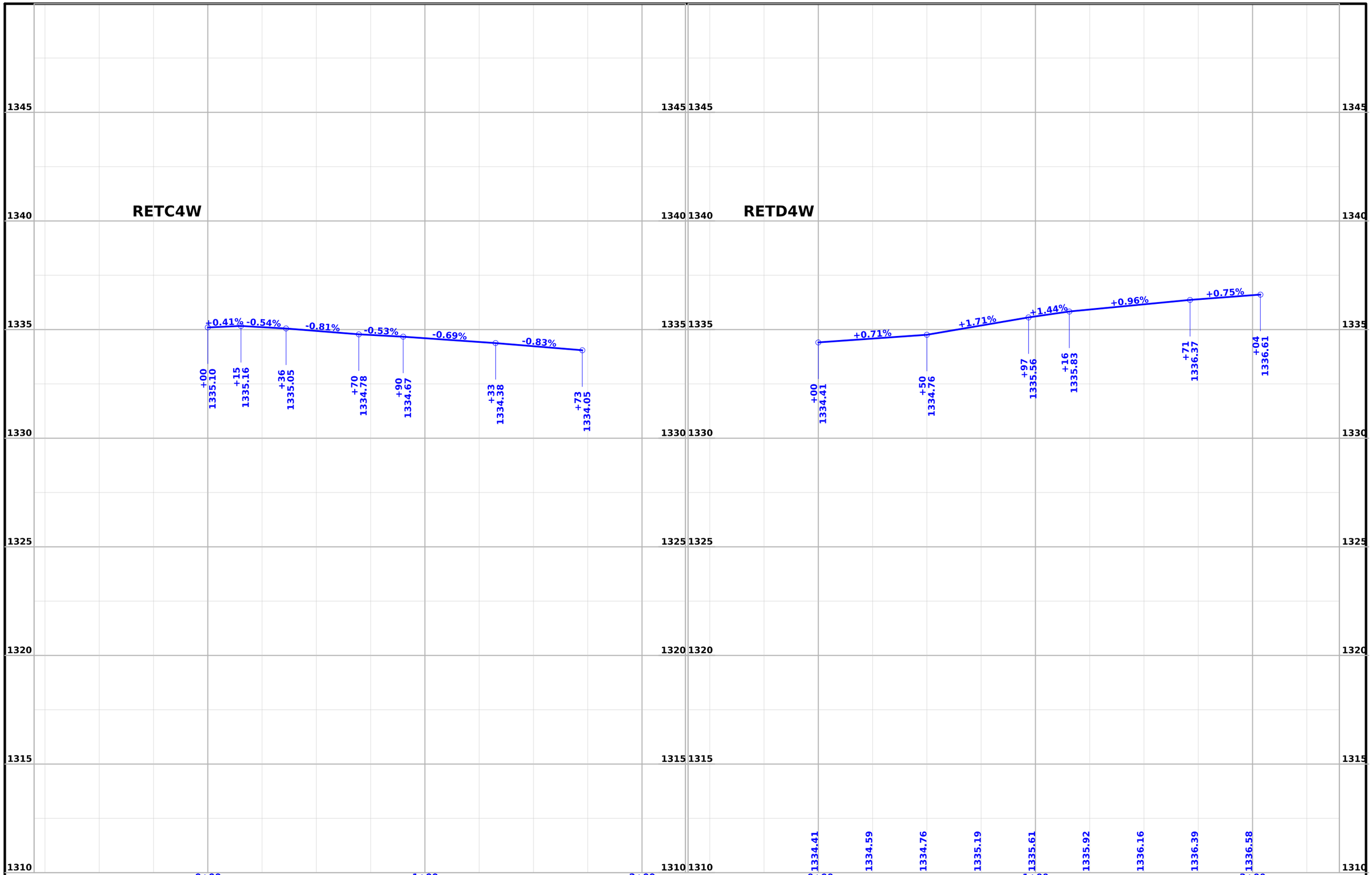
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Geometric and Staking
US18/5th Ave W

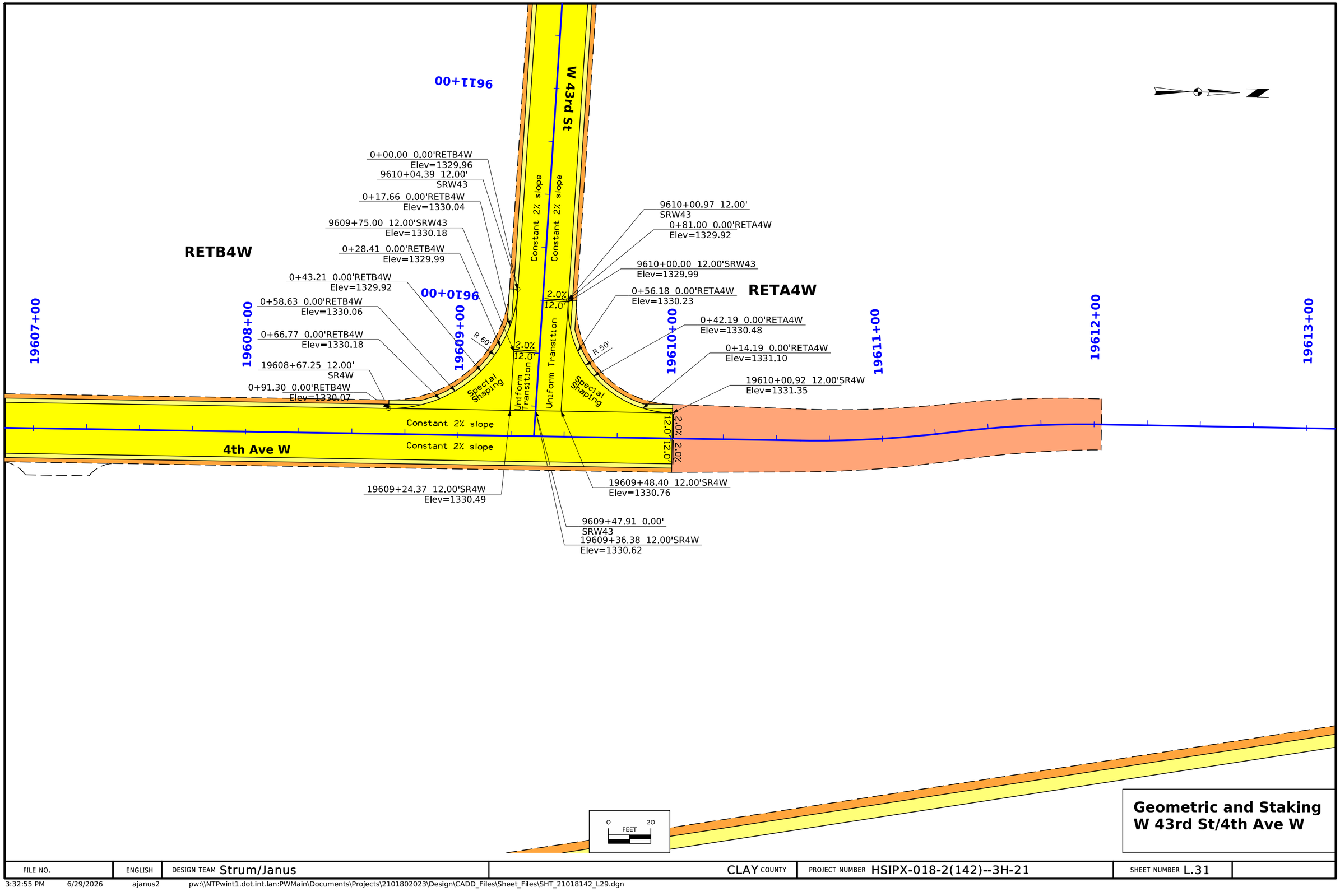
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3:32:42 PM 6/29/2026 ajanus2 pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\2101802023\Design\CADD_Files\Sheet_Files\SHT_21018142_L29.dgn



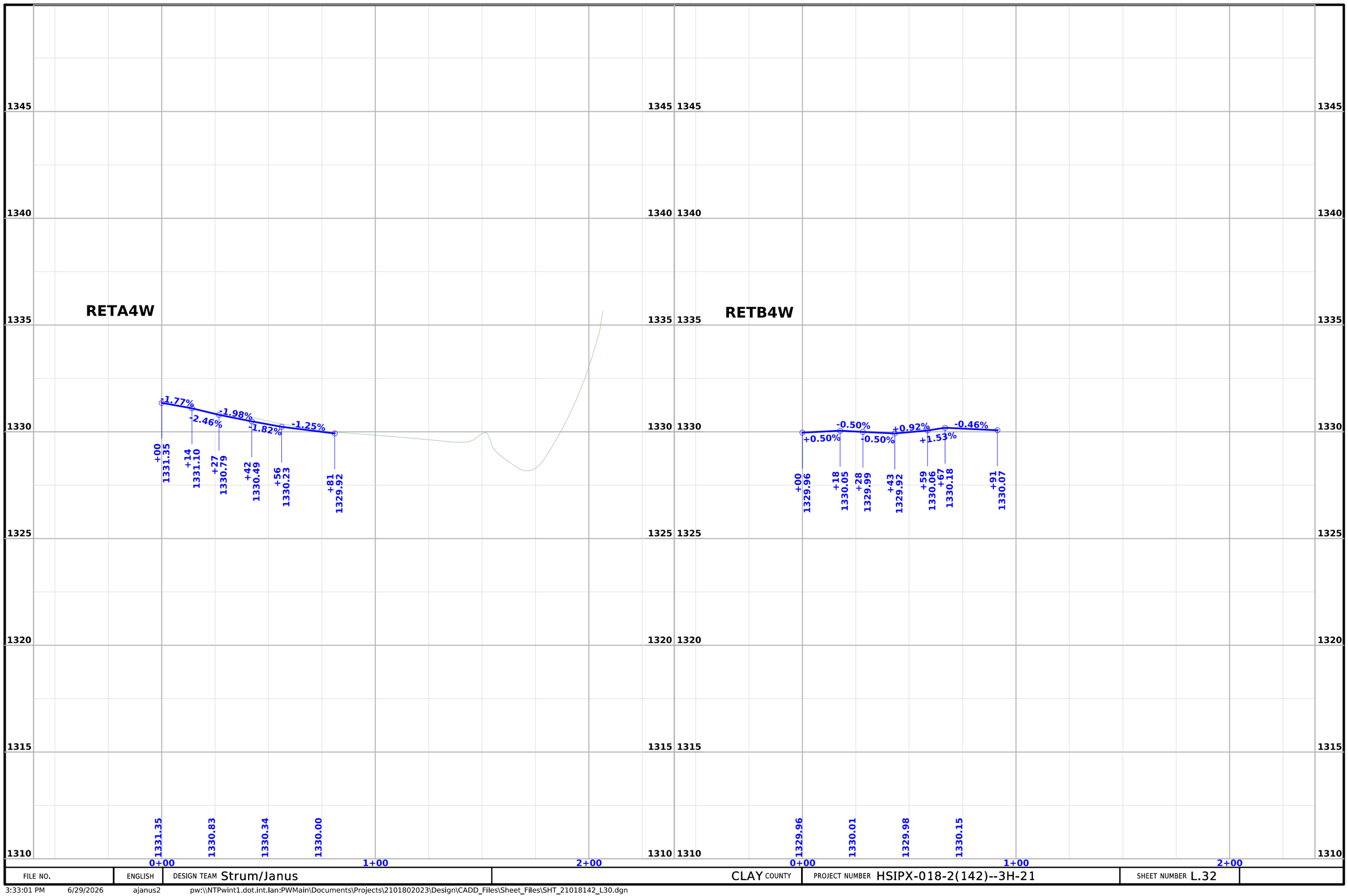
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FILE NO.	ENGLISH	DESIGN TEAM Strum/Janus	CLAY COUNTY	PROJECT NUMBER HSIPX-018-2(142)--3H-21	SHEET NUMBER L.31	

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FILE NO.	ENGLISH	DESIGN TEAM Strum/Janus	CLAY COUNTY	PROJECT NUMBER HSIPX-018-2(142)--3H-21	SHEET NUMBER L.32

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19589+00
19590+00
19591+00
19592+00
19593+00
19594+00
19595+00

4th Ave W

20076+68.43 12.00'SRW37
Elev=1324.08

19591+56.43 12.00'
SR4W

20076+68.47 0.00'SRW37
Elev=1324.16

20076+68.52 12.00'SRW37
Elev=1324.23

Constant 2% slope
2.0%
12.0'
0.5%
Constant 0.5% slope
0.7%
0.6%
Uniform Transition
Special Shaping
R 30'
R 50'
Uniform Transition
Constant 2% slope
Constant 2% slope

19591+56.43 12.00'SR4W
Elev=1323.86

0+00.00 0.00'
RETD37

0+14.66 0.00'RETD37
Elev=1323.93

0+29.88 0.00'RETD37
Elev=1324.10

0+47.02 0.00'RETD37
Elev=1324.33

20077+10.00 12.00'SRW37
Elev=1324.44

RETD37

20077+00

0+78.72 0.00'RETA37
Elev=1324.46

19592+60.50 12.00'
SR4W

0+72.00 0.00'RETA37
Elev=1324.42

0+64.00 0.00'RETA37
Elev=1324.30

0+56.14 0.00'RETA37
Elev=1324.12

19593+25.00 12.00'SR4W
Elev=1324.26

0+45.40 0.00'RETA37
Elev=1324.06

0+26.84 0.00'RETA37
Elev=1324.24

0+15.63 0.00'RETA37
Elev=1324.44

0+00.00 0.00'RETA37
Elev=1324.60

20077+30.00 12.00'SRW37
Elev=1324.68

RETA37

20078+00

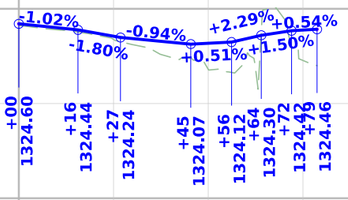
0 20
FEET

Geometric and Staking
W 37th St/4th Ave W

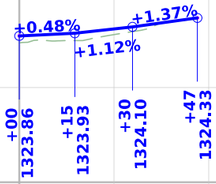
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RETA37

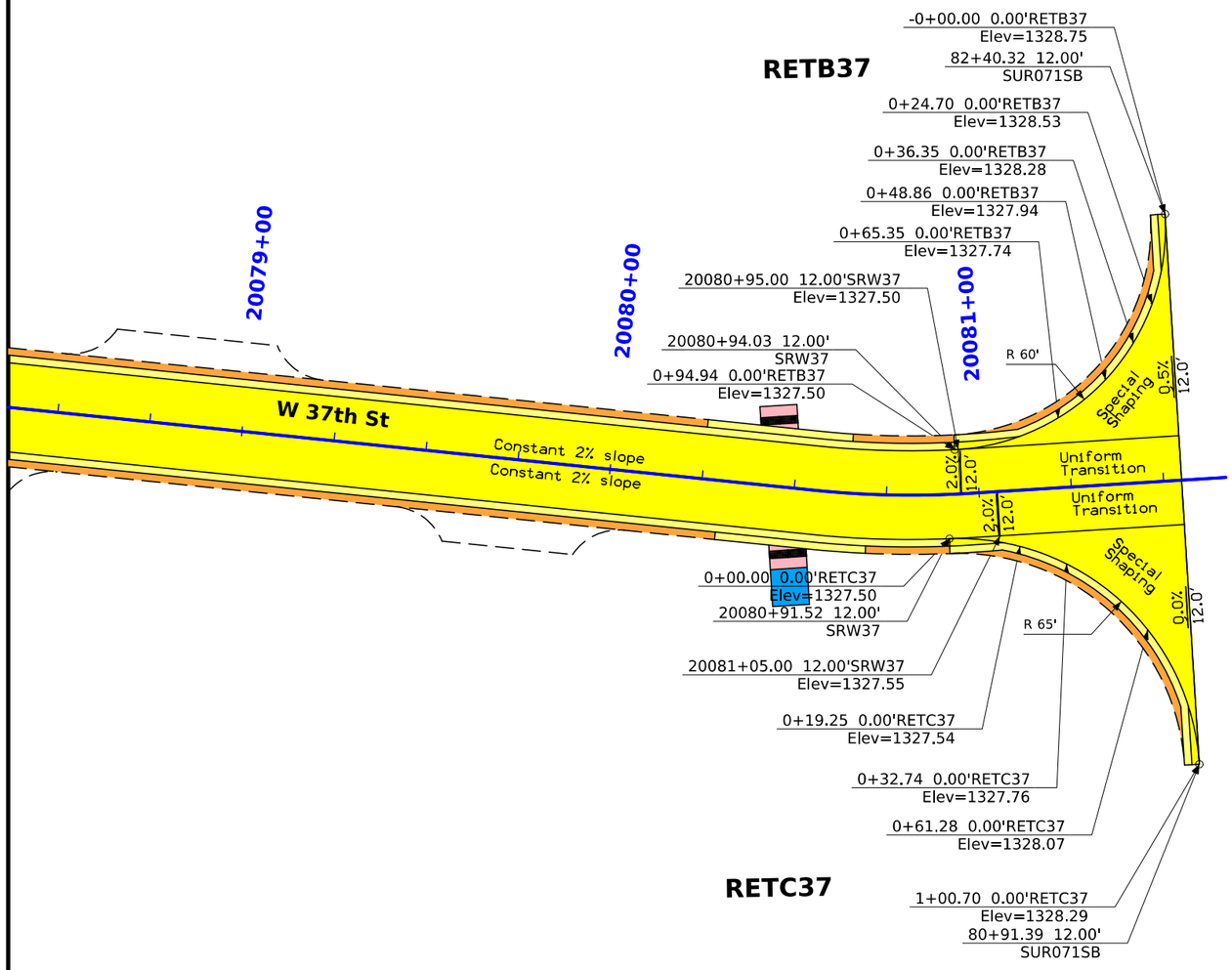


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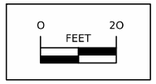


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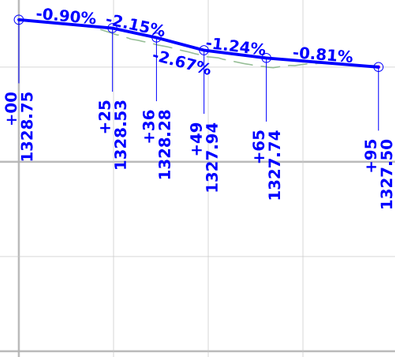


Geometric and Staking
US71/W 37th St

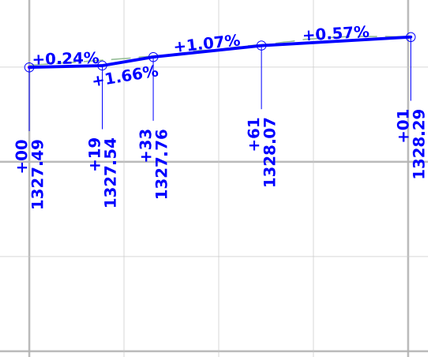
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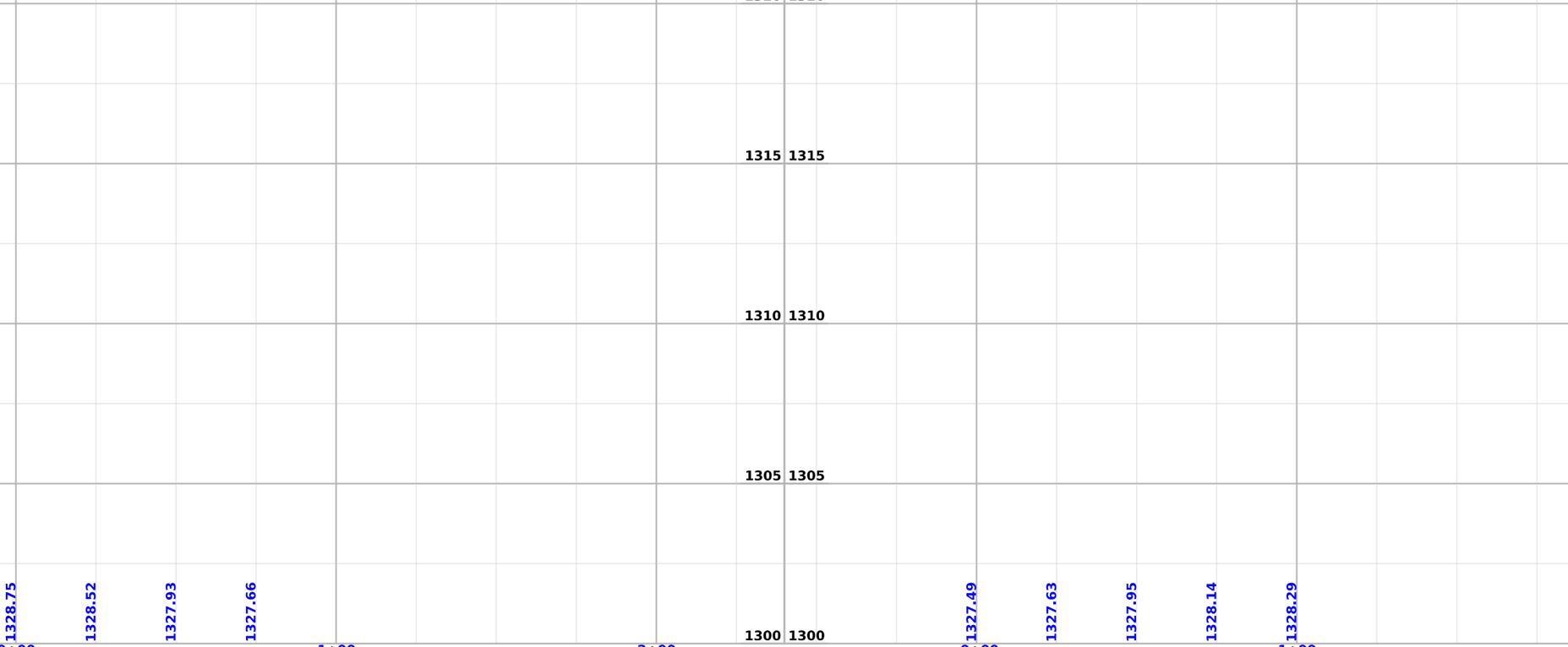
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RETB37



RETC37





FILE NO.	ENGLISH	DESIGN TEAM Strum/Janus	CLAY COUNTY	PROJECT NUMBER HSIPX-018-2(142)--3H-21	SHEET NUMBER L.36

3:33:27 PM 6/29/2026 ajanus2 pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\2101802023\Design\CADD_Files\Sheet_Files\SHT_21018142_L30.dgn

(1) Diameter or equivalent diameter

* Bid Item
** For SW-545

STORM SEWER

INTAKES AND UTILITY ACCESSES

No.	Location Station and Offset	*Type or Standard Road Plan	Form Grade Elev.	Bottom Well Elev.	Extension Length** FT	Notes
10	1000+41.02 - 3.0' Lt	SW-502 - 48"	1340.81	1335.90		(A) (RACIRCLE)
20	1000+40.58 - 32.5' Rt	SW-502 - 48"	1340.78	1335.40		(A) ** (RACIRCLE)
30	7157+57.44 - 6.9' Rt	SW-401 - 48"	1340.80	1335.00		** (SR320WB)
40	7157+55.52 - 19.3' Lt	SW-502 - 48"	1340.23	1334.60		(B) ** (SR320WB)
50	7157+55.37 - 55.2' Lt	DR-201 - 15"	1334.70			(SR320WB)
60	1003+90.42 - 3.0' Lt	SW-502 - 48"	1340.05	1335.00		(A) (RACIRCLE)
70	1003+32.16 - 3.0' Lt	SW-502 - 48"	1339.62	1334.50		(A) (RACIRCLE)
80	1003+07.46 - 3.0' Lt	SW-502 - 48"	1339.57	1334.20		(A) (RACIRCLE)
90	1002+83.33 - 3.0' Lt	SW-502 - 48"	1339.60	1334.50		(A) (RACIRCLE)
100	1003+07.48 - 104.3' Rt	DR-201 - 15"	1333.70			(RACIRCLE)
110	1001+34.16 - 3.0' Lt	SW-502 - 48"	1340.82	1336.60		(A) (RACIRCLE)
120	1002+07.24 - 3.0' Lt	SW-502 - 48"	1340.16	1335.50		(A) (RACIRCLE)
130	1002+07.24 - 84.7' Rt	DR-201 - 15"	1334.50			(RACIRCLE)
140	3633+58.75 - 22.7' Lt	SW-502 - 48"	1339.13	1334.50		(B) (ML018WB)
150	3632+49.95 - 20.5' Lt	SW-502 - 48"	1338.10	1333.40		(B) (ML018WB)
160	3632+49.12 - 44.7' Lt	DR-201 - 15"	1333.60			(ML018WB)
170	5058+20.00 - 18.9' Lt	SW-502 - 48"	1339.70	1334.80		(B) (ML071SB)
180	5058+55.06 - 17.3' Lt	SW-507	1339.37	1334.20		(ML071SB)
190	5058+60.64 - 46.1' Lt	DR-201 - 15"	1334.40			(ML071SB)
200	5059+43.75 - 20.2' Lt	SW-541	1338.36	1334.00		(ML071SB)
210	5059+43.71 - 44.6' Lt	DR-201 - 15"	1334.00			(ML071SB)
220	4058+05.65 - 15.3' Rt	SW-507	1340.53	1335.40		(ML071NB)
230	4058+52.85 - 14.5' Rt	SW-507	1339.97	1334.30		(ML071NB)
240	4058+52.85 - 43.6' Lt	DR-201 - 15"	1334.20			(ML071NB)
250	7158+45.52 - 22.6' Lt	SW-507	1339.46	1335.10		(SR320WB)
260	7158+45.22 - 45.0' Lt	DR-201 - 15"	1335.30			(SR320WB)
270	6158+08.42 - 17.7' Rt	SW-501	1339.48	1335.30		(B) (SR320EB)
280	6158+08.42 - 43.9' Rt	DR-201 - 15"	1335.50			** (SR320EB)
290	4055+96.74 - 19.5' Rt	SW-501	1339.50	1335.30		(B) ** (ML071NB)
300	4055+50.42 - 15.8' Rt	SW-507	1338.71	1334.70		** (ML071NB)
310	4055+45.22 - 44.6' Rt	DR-201 - 15"	1335.10			(ML071NB)
320	4055+18.00 - 14.5' Rt	SW-507	1338.12	1334.00		** (ML071NB)
330	4055+18.00 - 33.6' Rt	DR-201 - 15"	1335.00			(ML071NB)
340	1003+54.73 - 24.0' Rt	SW-502 - 48"	1339.72	1334.90		(A) (RACIRCLE)
350	5055+98.77 - 15.1' Lt	SW-501	1339.14	1334.40		(B) (ML071SB)
360	5055+98.81 - 64.0' Lt	DR-201 - 15"	1334.60			(ML071SB)
370	5056+21.06 - 16.6' Lt	SW-501	1339.36	1334.90		(B) (ML071SB)
380	5055+74.50 - 14.5' Rt	SW-501	1339.36	1335.20		(B) (ML071SB)
390	5055+74.50 - 14.6' Lt	SW-501	1338.88	1334.70		(B) (ML071SB)
400	5055+36.17 - 14.5' Lt	SW-501	1338.48	1334.40		(B) (ML071SB)
410	5055+36.17 - 49.9' Lt	DR-201 - 12"	1335.50			(ML071SB)
420	2633+62.84 - 21.5' Rt	SW-502 - 48"	1339.15	1334.70		(B) (ML018EB)
430	2632+73.00 - 18.5' Rt	SW-501	1338.16	1333.40		(B) (ML018EB)
435	2632+73.00 - 43.9' Rt	DR-201 - 15"	1333.40			(ML018EB)
440	2632+13.37 - 24.0' Rt	SW-541	1337.69	1333.10		(ML018EB)
450	2632+13.37 - 46.0' Rt	DR-201 - 15"	1333.20			(ML018EB)

** Install 'Well Only' in Stage 2 and 'Top' in Stage 4

(A) Grate 'A', M.27
(B) Grate 'B', M.28

PIPES

Design Length, Slope, and Flowlines are calculated from inside wall to inside wall along CL of pipe. An additional 2 ft length is added to each side of the Design Length to account for estimated length to center of structures.

Line Number	Intake/Utility Access No. From	To	Class 'D'	Pipe Size (1) 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
P-10	10	20	2000	15	36	32.0	1.25	2	1336.40	1336.00		M.6	
P-20	20	30	2000	15	36	32.0	0.94	2	1335.90	1335.60		M.6	
P-30	30	40	2000	15	32	28.0	1.07	2	1335.50	1335.20		M.16	
P-40	40	50	2000	15	32	30.0	1.11	2	1335.10	1334.77		M.16	
P-60	60	70	2000	15	56	52.0	0.77	2	1335.50	1335.10		M.6	
P-70	70	80	2000	15	26	22.0	0.91	2	1335.00	1334.80		M.6	
P-80	80	100	2000	15	96	94.0	1	2	1334.70	1333.76		M.7	
P-90	90	80	2000	15	24	20.0	1	2	1335.00	1334.80		M.6	
P-110	110	120	2000	15	70	66.0	1.21	2	1337.10	1336.30		M.5	
P-120	120	130	2000	15	80	78.0	1.78	2	1336.00	1334.61		M.7	
P-140	140	150	2000	15	106	102.0	0.98	2	1335.00	1334.00		M.12	
P-150	150	160	2000	15	20	18.0	1.25	2	1333.90	1333.68		M.12	
P-170	170	180	2000	15	32	28.0	1.07	2	1335.30	1335.00		M.25	
P-180	180	190	2000	15	22	20.0	1.15	2	1334.70	1334.47		M.25	
P-200	200	210	2000	15	20	18.0	2.08	2	1334.50	1334.13		M.26	
P-220	220	230	2000	15	48	44.0	1.82	2	1335.90	1335.10		M.21	
P-230	230	240	2000	15	20	18.0	2.49	2	1334.80	1334.35		M.21	
P-250	250	260	2000	15	16	14.0	1.49	2	1335.60	1335.39		M.17	
P-270	270	280	2000	15	22	20.0	1.15	2	1335.80	1335.57		M.14	
P-290	290	300	2000	15	40	36.0	0.83	2	1335.80	1335.50		M.19	
P-300	300	310	2000	15	22	20.0	1.15	2	1335.40	1335.17		M.20	
P-320	320	330	2000	15	12	10.0	1.24	2	1335.20	1335.07		M.20	
P-340	340	350	2000	15	38	34.0	1.18	2	1335.40	1335.00		M.24	
P-350	350	360	2000	15	46	44.0	0.60	2	1334.90	1334.64		M.24	
P-370	370	350	2000	15	24	20.0	2.00	2	1335.40	1335.00		M.23	
P-380	380	390	2000	15	28	24.0	1.67	2	1335.70	1335.30		M.24	
P-390	390	350	2000	15	26	22.0	0.91	2	1335.20	1335.00		M.23	
P-400	400	410	2000	12	32	30.0	0.83	2	1335.80	1335.55		M.23	
P-420	420	430	2000	15	82	78.0	1.28	2	1335.20	1334.20		M.9	
P-430	430	435	2000	15	22	20.0	1.92	2	1333.90	1333.52		M.10	
P-440	440	450	2000	15	16	14.0	1.99	2	1333.60	1333.32		M.10	

(1) Diameter or equivalent diameter

* Bid Item
** For SW-545

STORM SEWER

INTAKES AND UTILITY ACCESSES

No.	Location Station and Offset	*Type or Standard Road Plan	Form Grade Elev.	Bottom Well Elev.	Extension Length** FT	Notes
	Totals:	SW-401	1			
		SW-501	8			
		SW-502 - 48"	14			
		SW-507	6			
		SW-541	2			
		12" RCP	32'			
		15" RCP	1150'			
		12" RCP Apron	1			
		15" RCP Apron	14			

PIPES

Design Length, Slope, and Flowlines are calculated from inside wall to inside wall along CL of pipe. An additional 3 ft length is added to each side of the Design Length to account for estimated length 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

SURVEY SYMBOLS

- Interstate Highway Symbol
- U.S. Highway Symbol
- Iowa Highway Symbol
- County Road Highway Symbol
- Evergreen Tree
- Deciduous Tree
- Fruit Tree
- Shrub (Bushes)
- Timber
- Hedge
- Stump
- Swamp
- Rock Outcrop
- Broken Concrete
- Revetment (Rip Rap)
- Cemetery
- Grave
- Cave
- Sink Hole
- Board Fence
- Chain Link or Security Fence
- Wire Fence
- Terrace
- Earth Dam or Dike (Existing)
- Tile Outlet
- Edge of Water
- Existing Drainage
- Right of Way Rail or Lot Corner
- Concrete Monument
- Well
- Windmill
- Beehive Intake
- Existing Intake
- Existing Utility Access (Manhole)
- Fire Hydrant
- WH Water Hydrant (Rural)
- Septic Tank
- Cistern
- L.P. Gas Tank (No Footing)
- Underground Storage Tank
- Latrine
- Satellite TV Dish
- WHU Water Hook Up
- RT Radio Tower
- TA Tower Anchor
- Guardrail (Beam or Cable)
- GP Guard Post (one or two)
- Guard Post (over two)
- FP Filler Pipe
- GV Gas Valve
- WV Water Valve
- SL Speed Limit Sign
- MM Mile Marker Post
- SIGN Sign
- TCB Traffic Signal Control Box
- RRB Rail Road Signal Control Box
- TSB Telephone Switch Box
- EB Electric Box

UTILITY LEGEND

— E1 —
Alliant Energy
Billie Reid
Real Estate and ROW Representative II
billiereid@alliantenergy.com

— E2 —
Private Electrical Line (Owner Unknown)

— E3 —
Spencer Municipal Utilites
Sean Hefner
Electric Manager
sean.hefner@smunet.net 712-240-3618

— E4 —
Iowa DOT
Jason Dale
ITS Maintenance Engineer
Jason.Dale@iowadot.us

— E5 —
Iowa Lakes Electric Coop
Brian Scott
Field Superintendent
brians@ilec.coop 7122604012

— FO —
Spencer Municipal Utilites
Mark White
Public Works Director
mwhite@spenceriowacity.com

— FO2 —
LongLines Broadband
Tom Connors
Design/Construction Manager
tconnors@longlines.biz 515-554-5227

— FO3 —
H&D UNDERGROUND

— FO4 —
Iowa Communicatlons Network (ICN)
David Augspurger
Sr Telecom Specialist | OSP Lead
david.augspurger@icn.state.ia.us (515) 229-2013

— FO5 —
CenturyLink
Steve Parker
Manager of Engineering & Construction
Steven.Parker4@lumen.com 5073581978

— G —
Northern Natural Gas
Jeff Larson
Senior Right of Way Agent
Jeff.Larson@nngco.com

— G2 —
GL1D, Black Hills Energy - Quality D
Morgan Post
Design Engineer
morgan.post@blackhillscorp.com 307-696-9394

— ST S(C)-

— T1 —
Lumen CenturyLink
Steve Parker
Manager of Engineering & Construction
Steven.Parker4@lumen.com 5073581978

— W —
Spencer Municipal Utilities (SMU)
Mark White
Public Works Director
mwhite@spenceriowacity.com

PPB, Iowa Lakes Electric Coop

PPA, Spencer Municipal Utilities (SMU)

— FO6 —
FO5D, Mediacom - Quality D
Jeff Anfinson
Technical Operations Manager
janfinson@mediacomcc.com

— FO7 —
FO5D, Private Midwestern Mechanical - Quality D

— FO8 —
FO5D, Premier Communications - 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

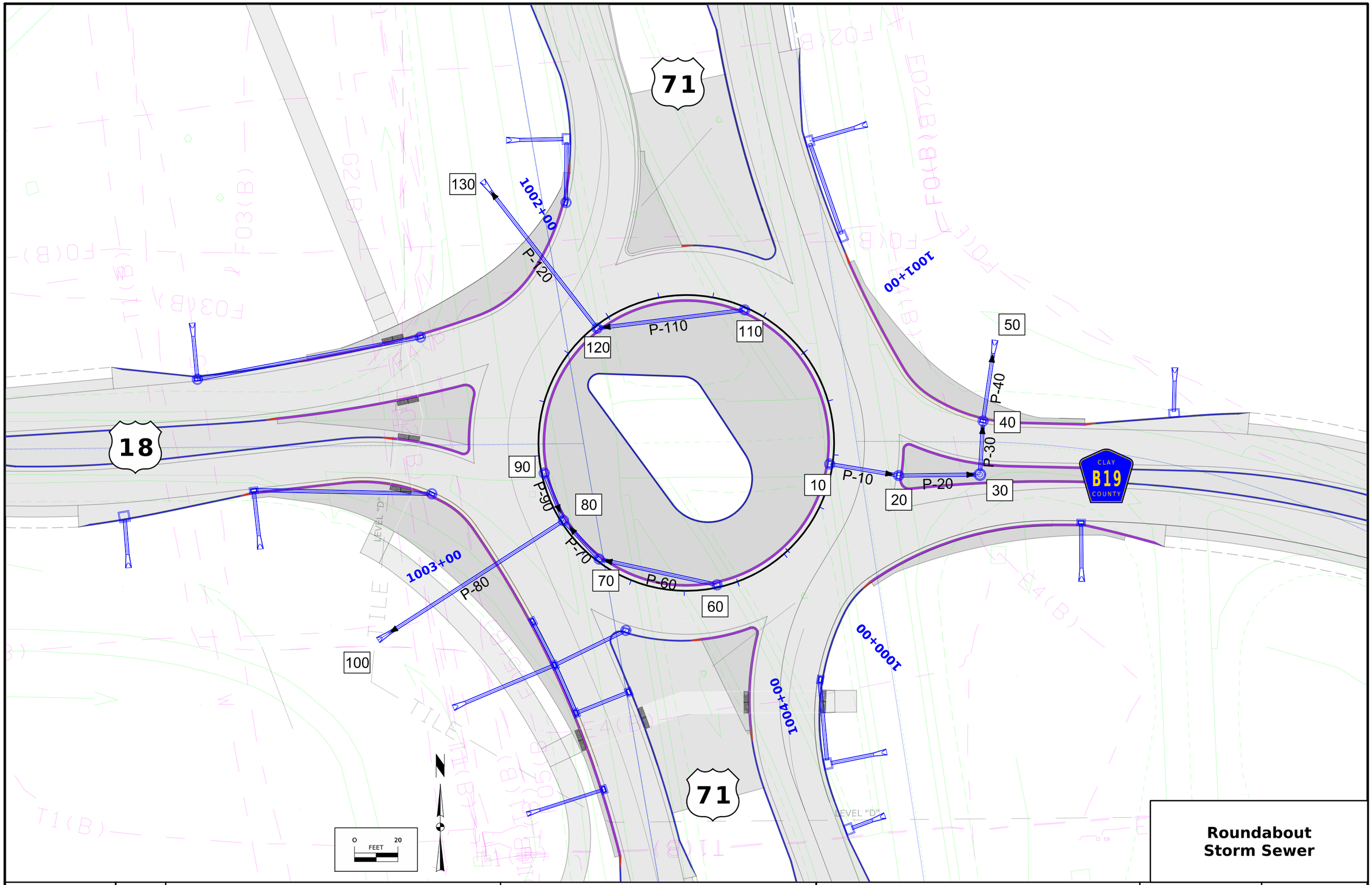
- Proposed Right-of-Way
- Existing and Proposed Right-of-Way
- Easement and Existing Right-of-Way
- Borrow
- Easement (Temporary)
- Easement
- Excess
- A/C Access Control

STORM SEWER LEGEND AND SYMBOL INFORMATION SHEET

(COVERS SHEET SERIES M)

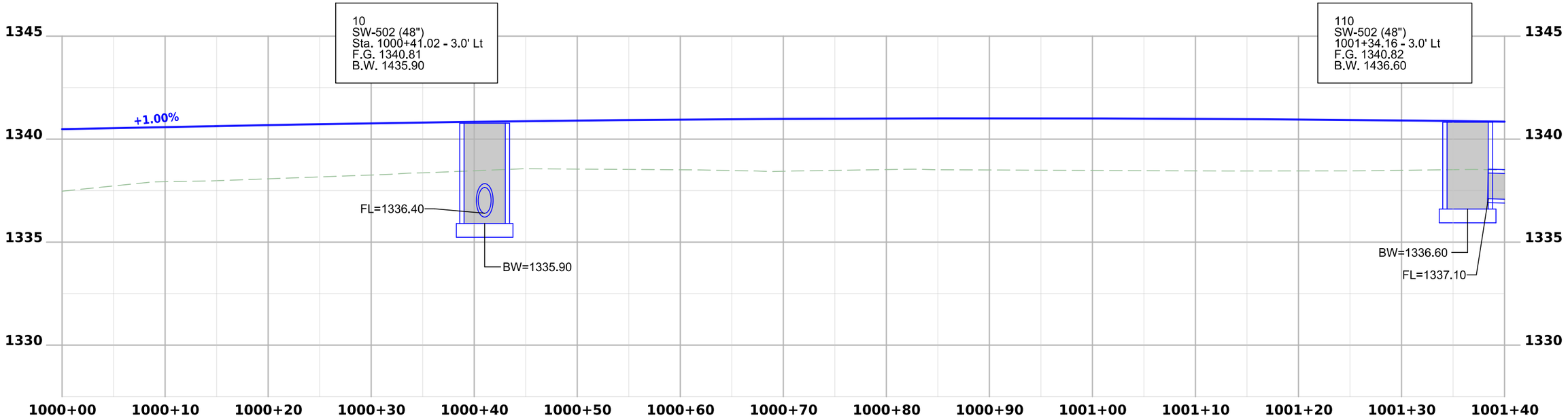
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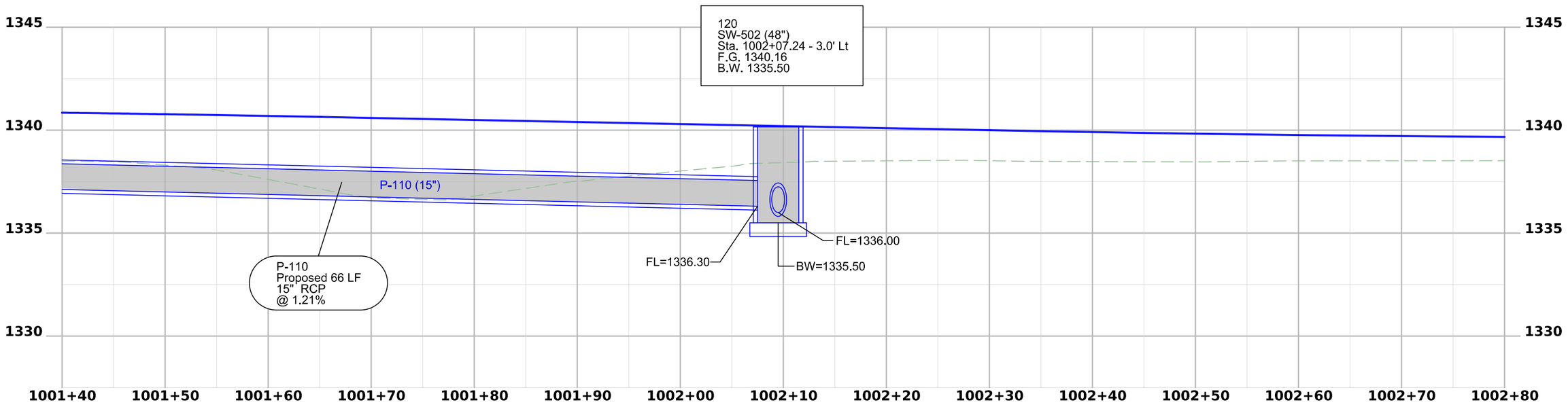
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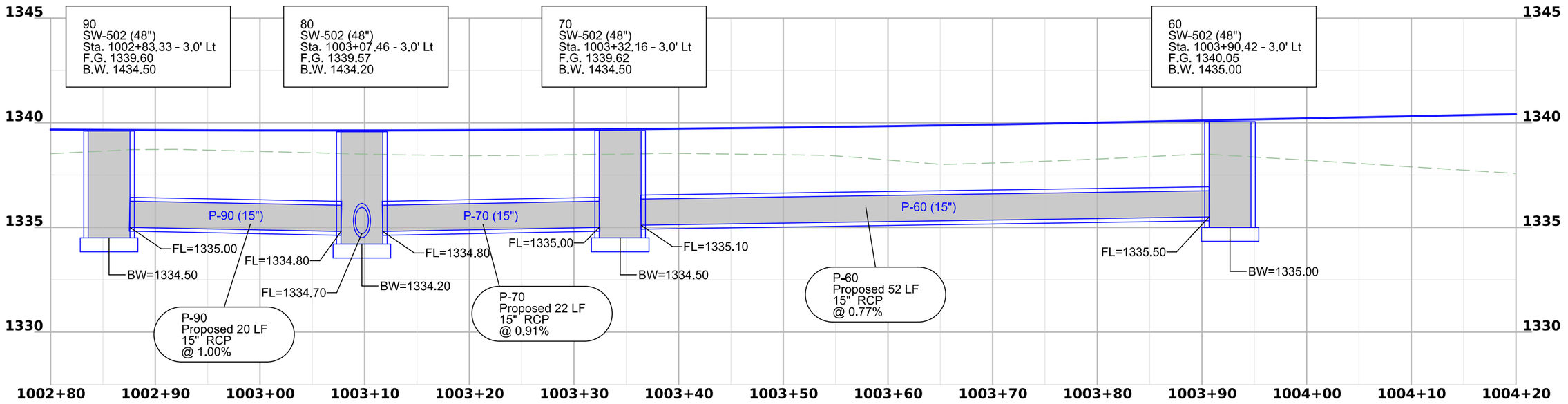
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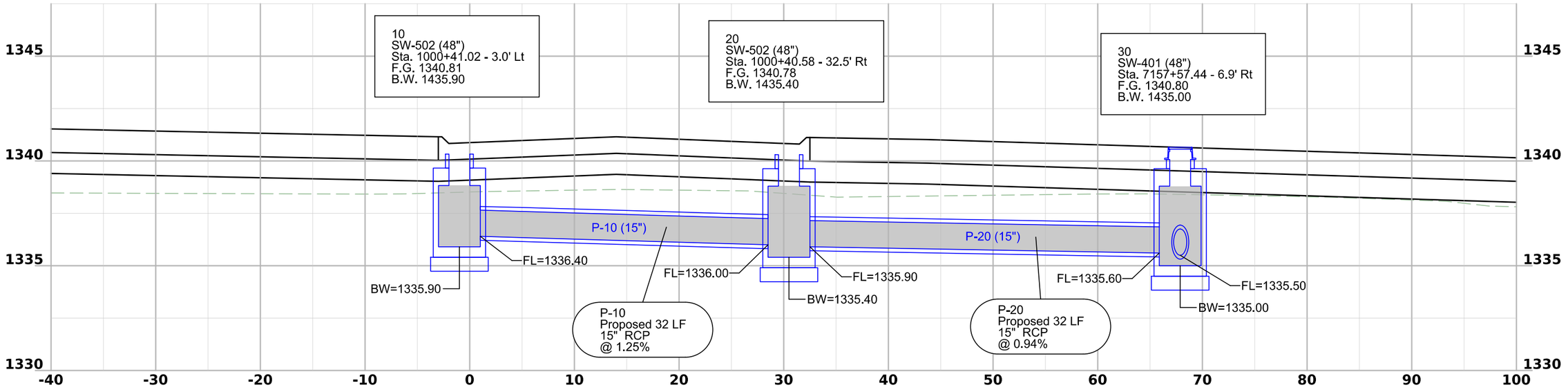




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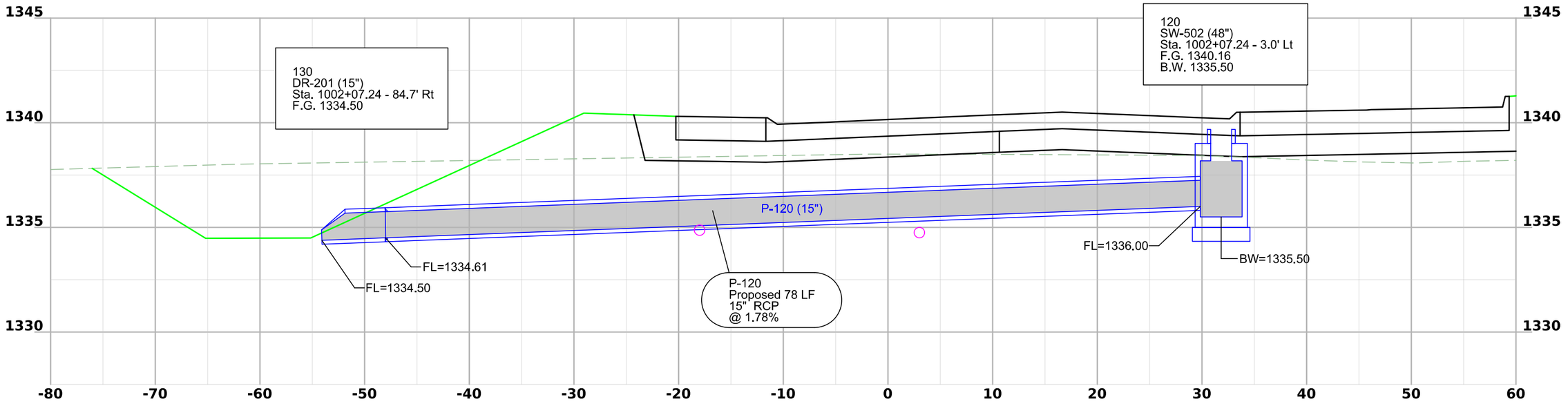
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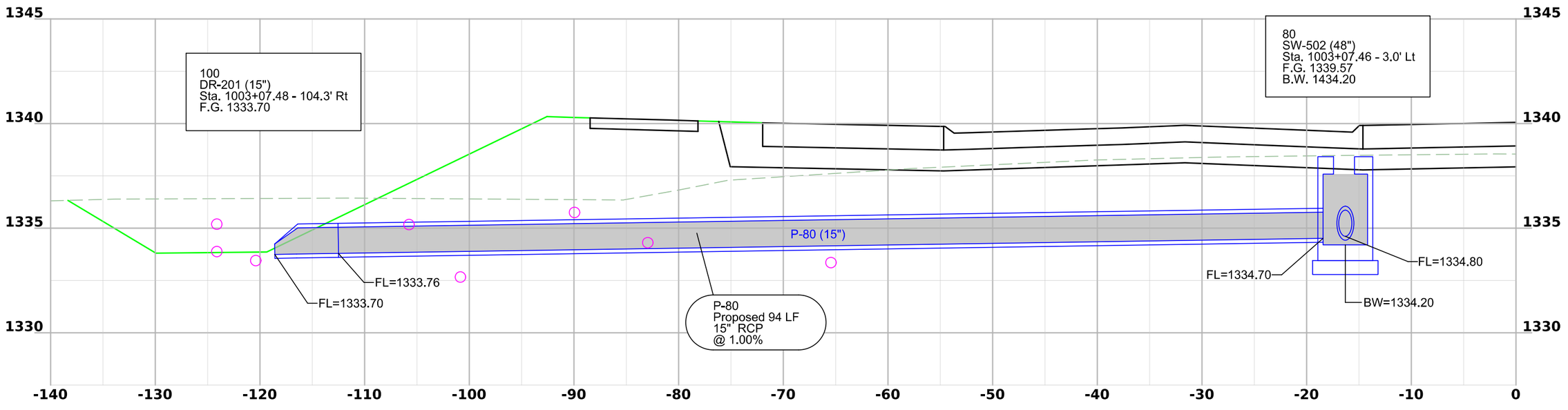




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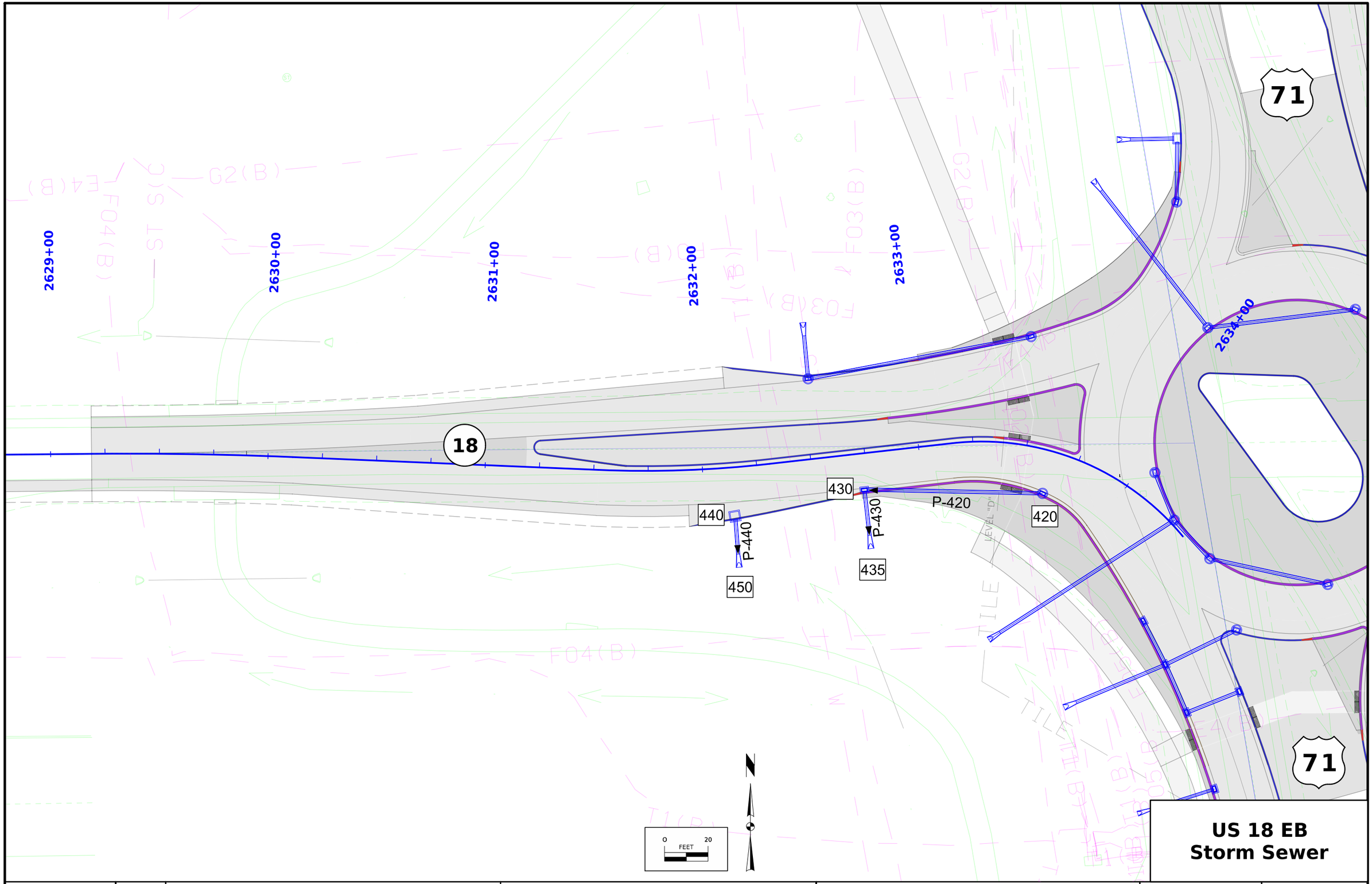
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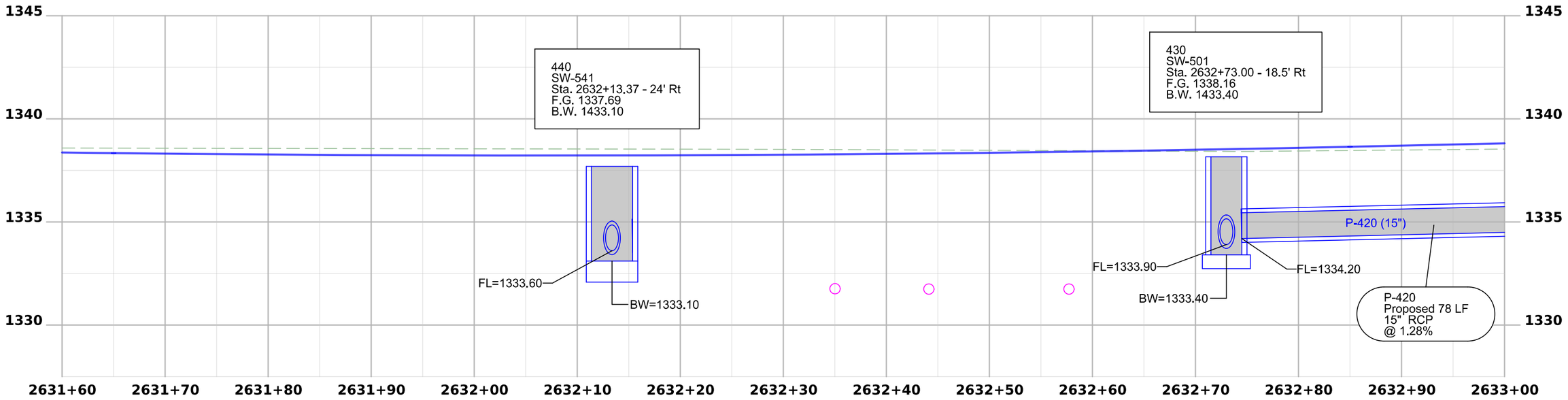
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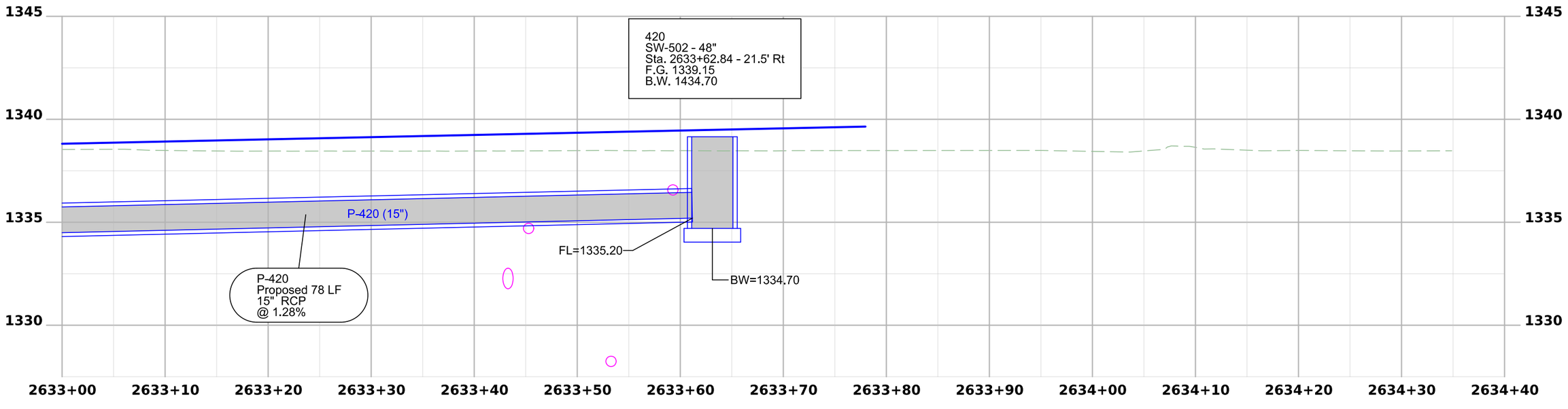


US 18 EB
Storm Sewer

FILE NO.	ENGLISH	DESIGN TEAM **Strum/Janus**	**CLAY** COUNTY	PROJECT NUMBER **HSIPX-018-2(142)--3H-21**	SHEET NUMBER **M.8**

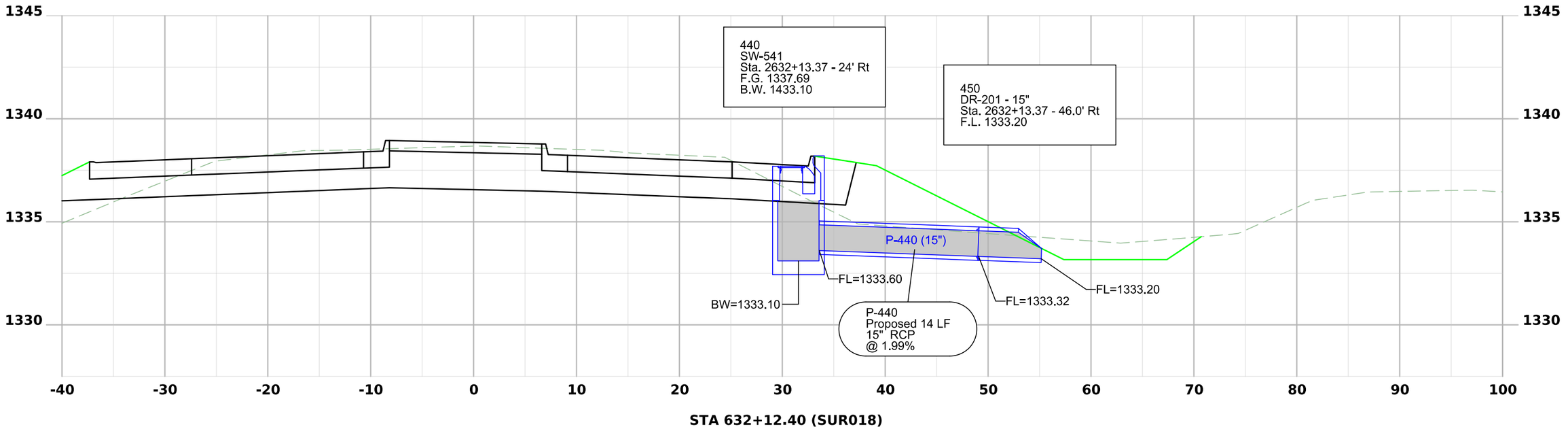
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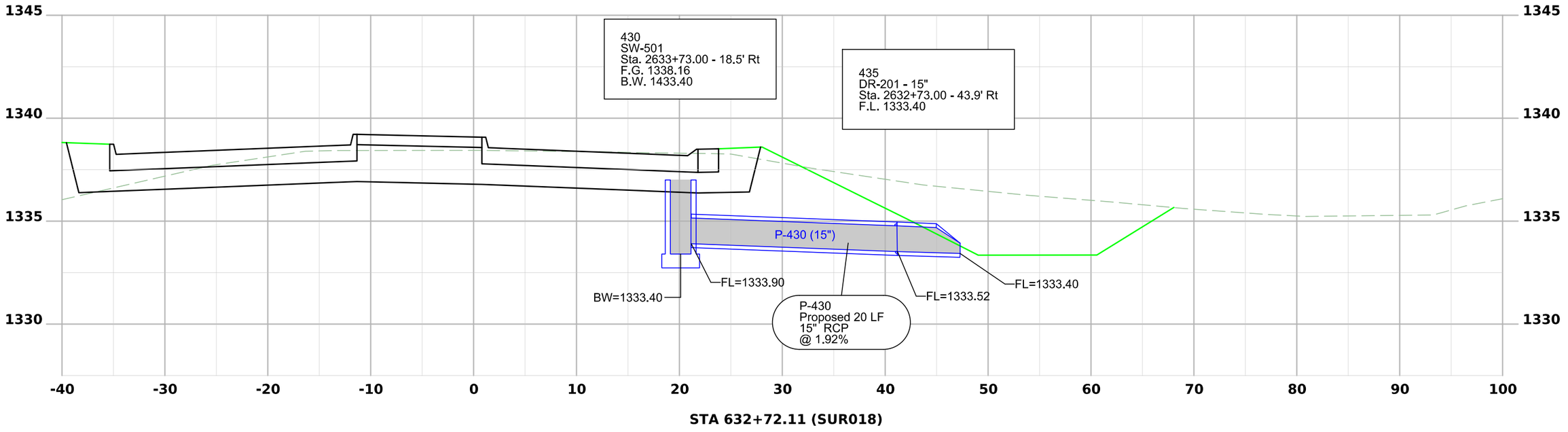




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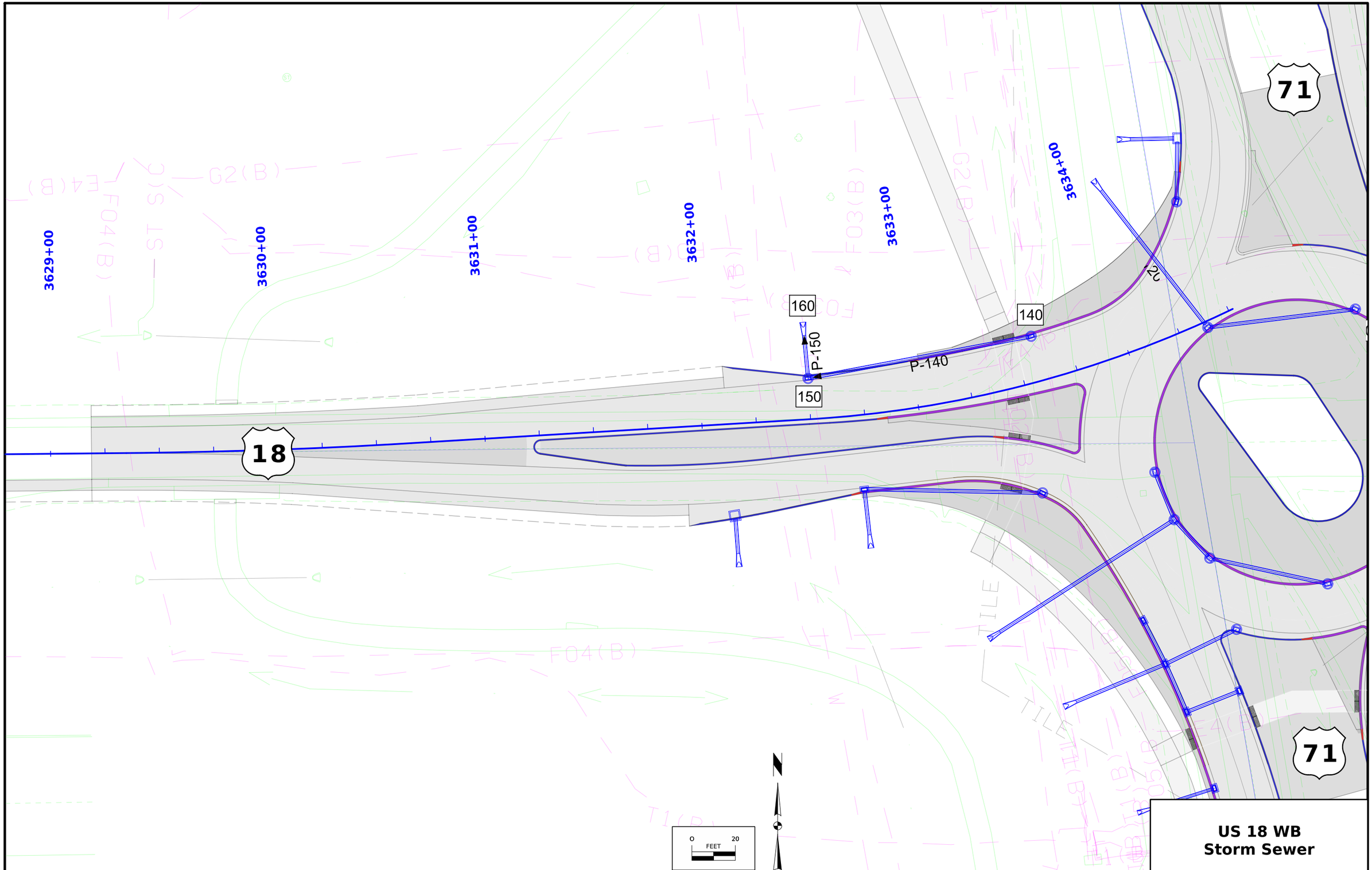
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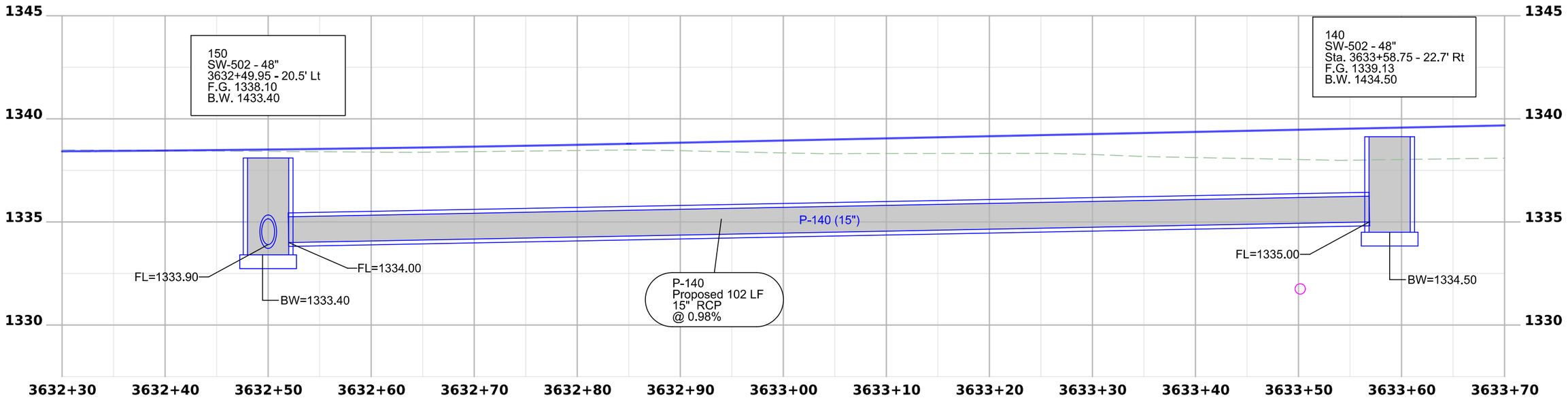
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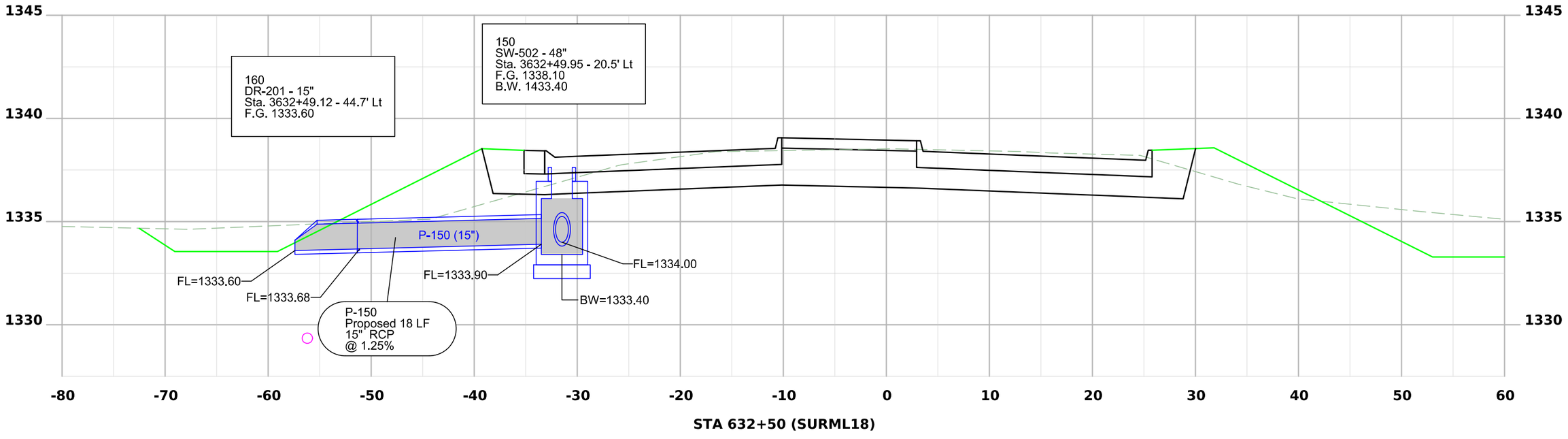


US 18 WB
Storm Sewer

FILE NO.	ENGLISH	DESIGN TEAM **Strum/Janus**	**CLAY** COUNTY	PROJECT NUMBER **HSIPX-018-2(142)--3H-21**	SHEET NUMBER **M.11**

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FILE NO.	ENGLISH	DESIGN TEAM **Strum/Janus**	**CLAY** COUNTY	PROJECT NUMBER **HSIPX-018-2(142)--3H-21**	SHEET NUMBER **M.12**

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71

6157+00

6158+00

6159+00

6160+00

270

P-270

280

CLAY
B19
COUNTY

71

APPROX. SEC. LINE

APPROX. SEC. LINE

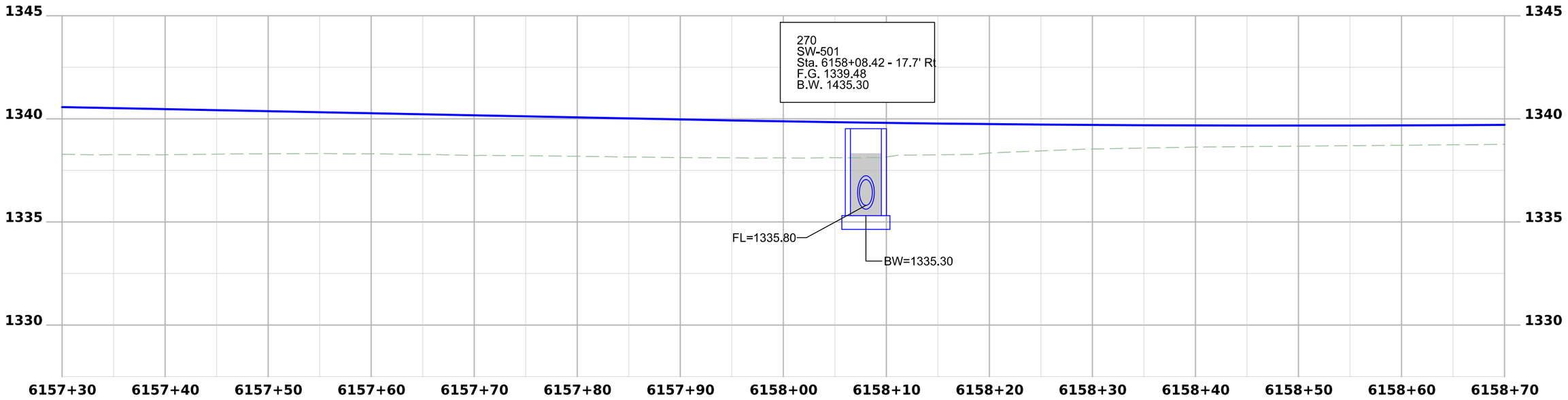
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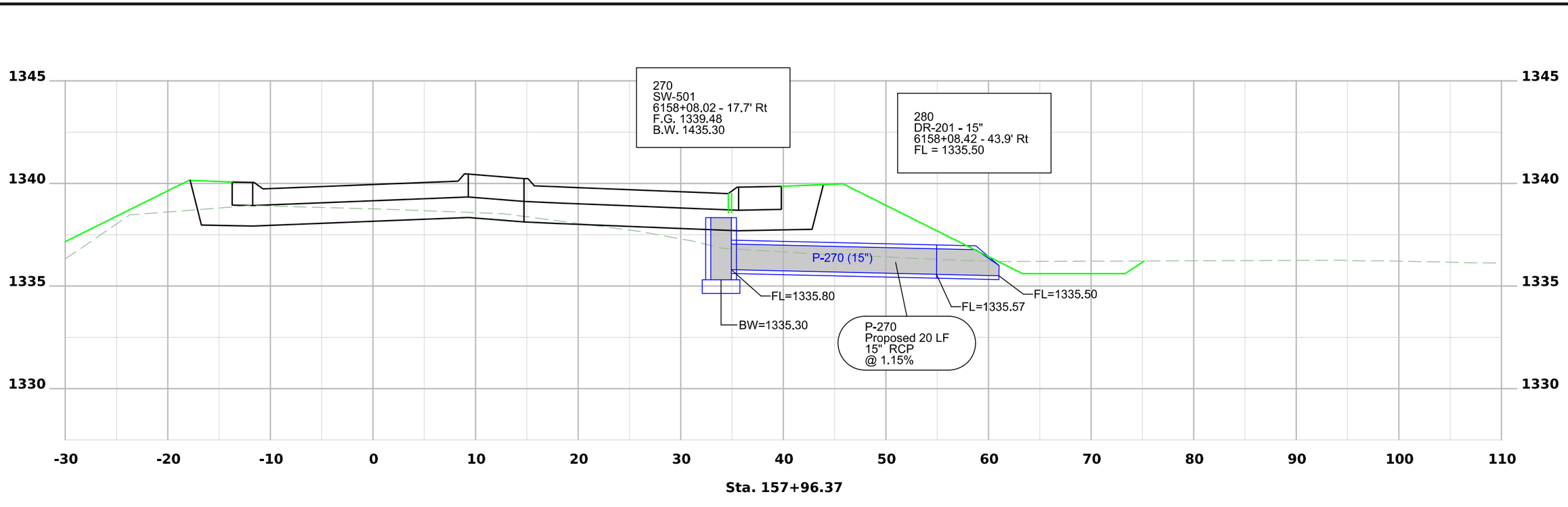
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320th St EB
Storm Sewer

FILE NO.	ENGLISH	DESIGN TEAM **Strum/Janus**	**CLAY** COUNTY	PROJECT NUMBER **HSIPX-018-2(142)--3H-21**	SHEET NUMBER **M.13**

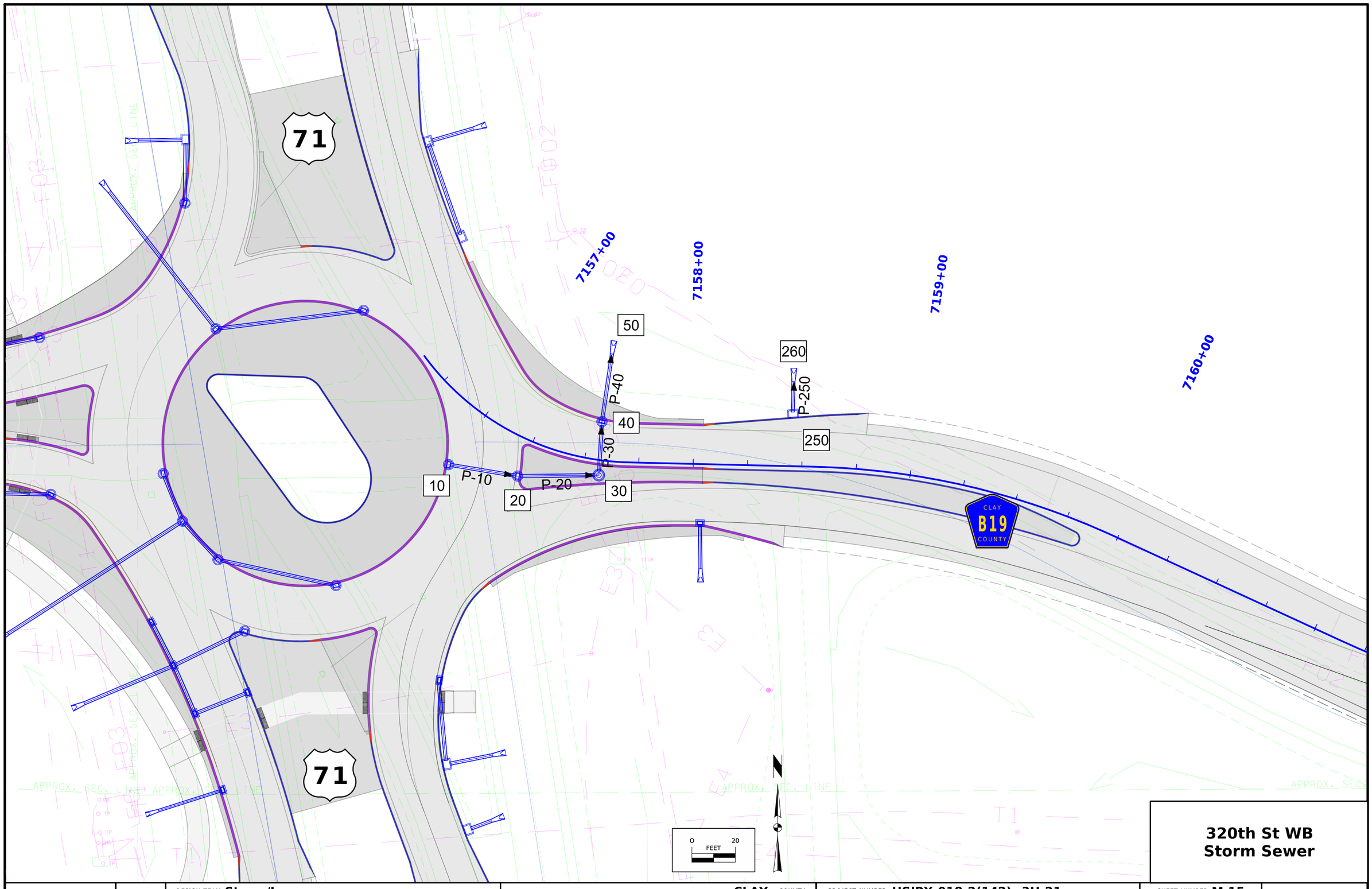
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FILE NO.	ENGLISH	DESIGN TEAM **Strum/Janus**	**CLAY** COUNTY	PROJECT NUMBER **HSIPX-018-2(142)--3H-21**	SHEET NUMBER **M.14**

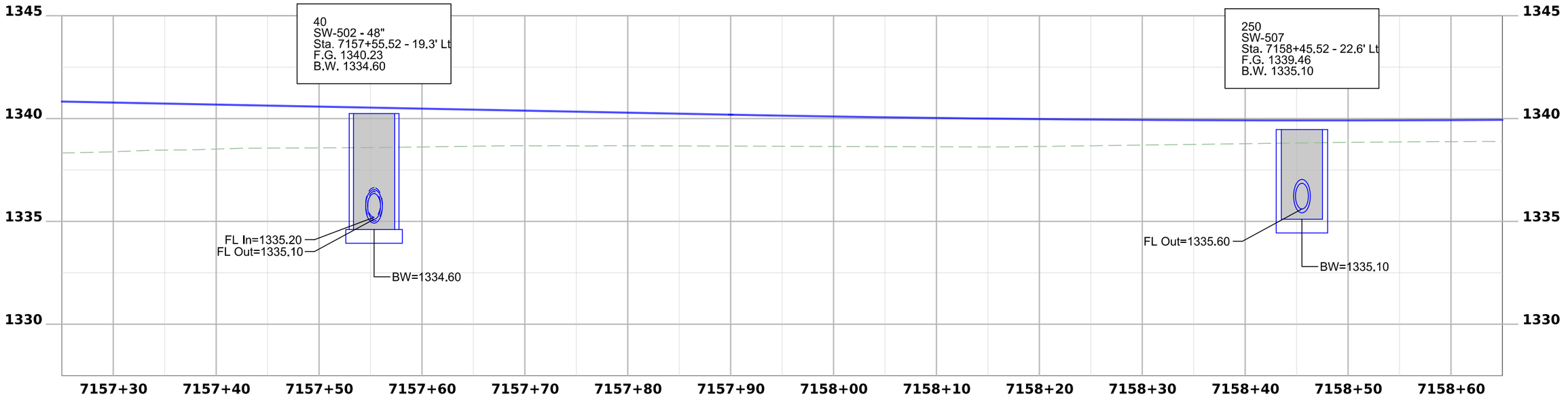
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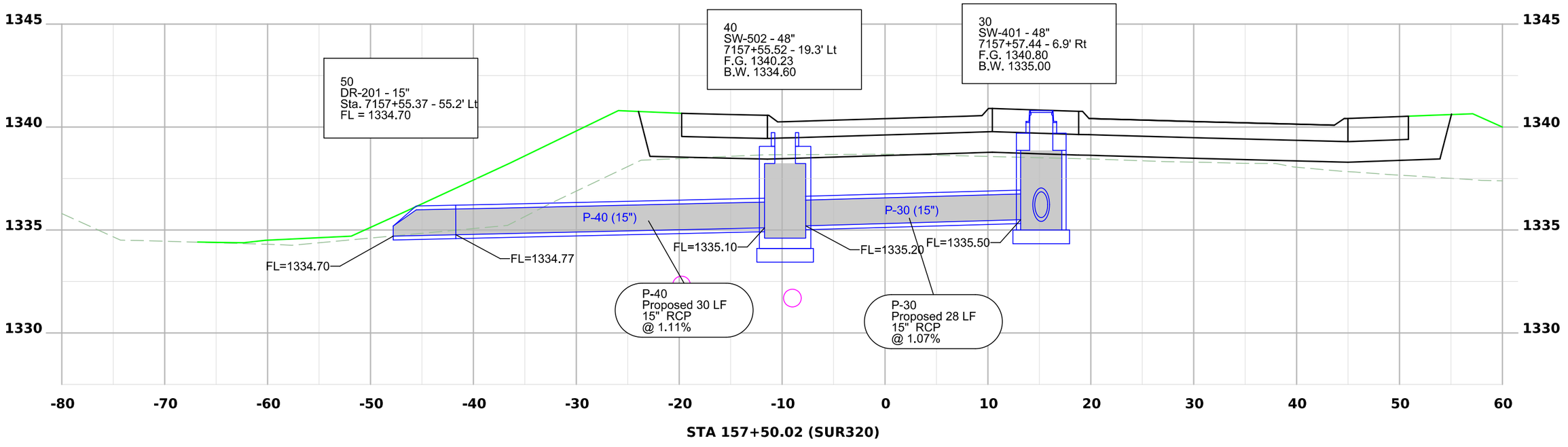


320th St WB
Storm Sewer

FILE NO.	ENGLISH	DESIGN TEAM **Strum/Janus**	**CLAY** COUNTY	PROJECT NUMBER **HSIPX-018-2(142)--3H-21**	SHEET NUMBER **M.15**

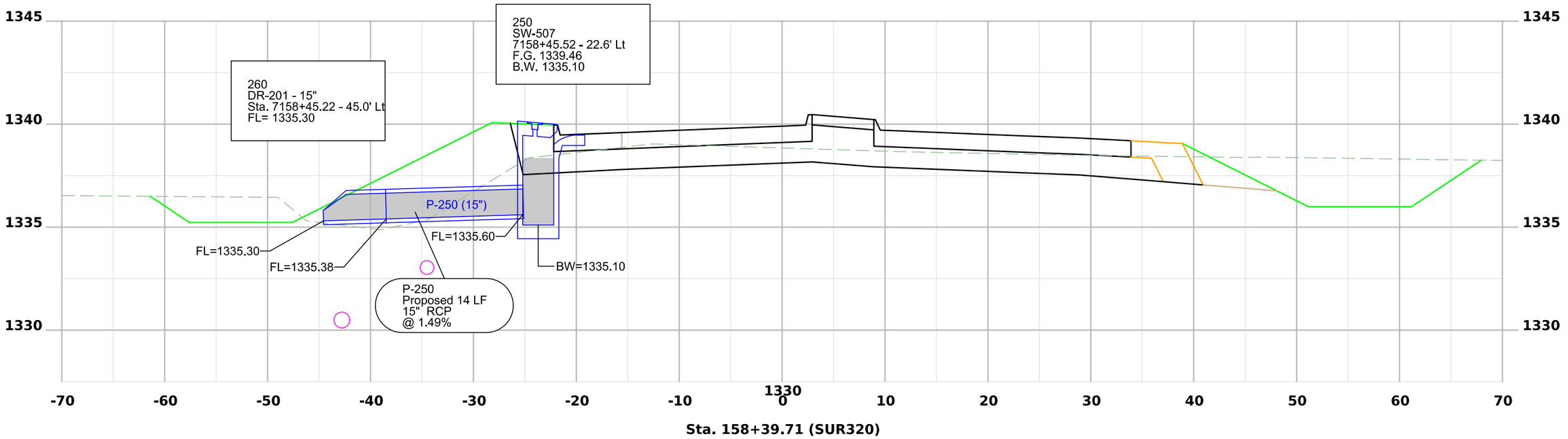
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FILE NO.	ENGLISH	DESIGN TEAM **Strum/Janus**	**CLAY** COUNTY	PROJECT NUMBER **HSIPX-018-2(142)--3H-21**	SHEET NUMBER **M.16**

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FILE NO.	ENGLISH	DESIGN TEAM **Strum/Janus**	**CLAY** COUNTY	PROJECT NUMBER **HSIPX-018-2(142)--3H-21**	SHEET NUMBER **M.17**	

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18

71

71

4054+00

4055+00

4056+00

4057+00

4058+00

4059+00

4060+00

320

300

290

330

310

P-320

P-300

P-290

220

230

240

P-220

P-230

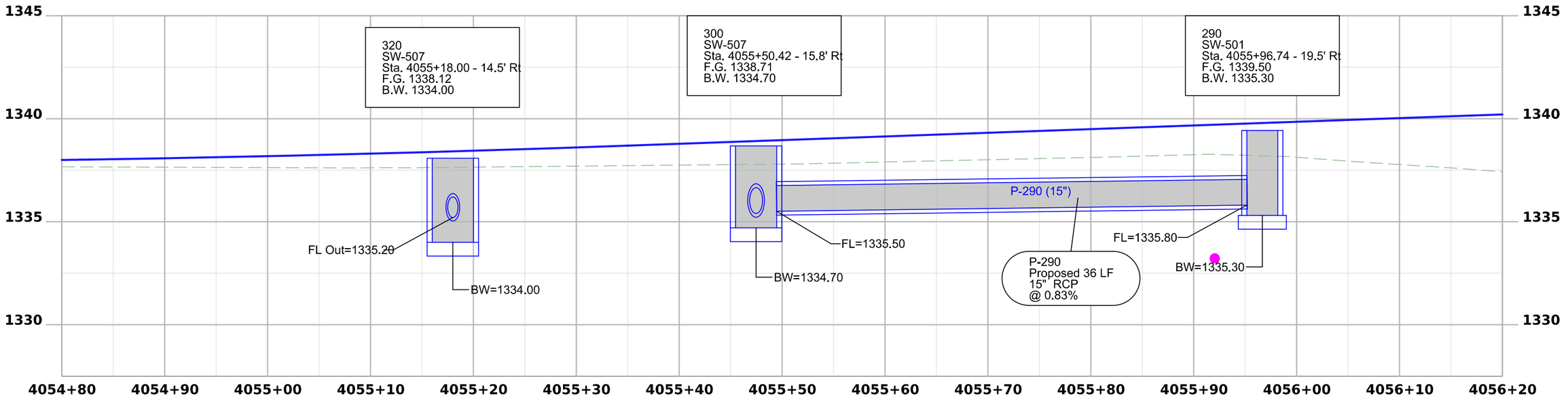
CLAY
B19
COUNTY

0 FEET 20

US 71 NB
Storm Sewer

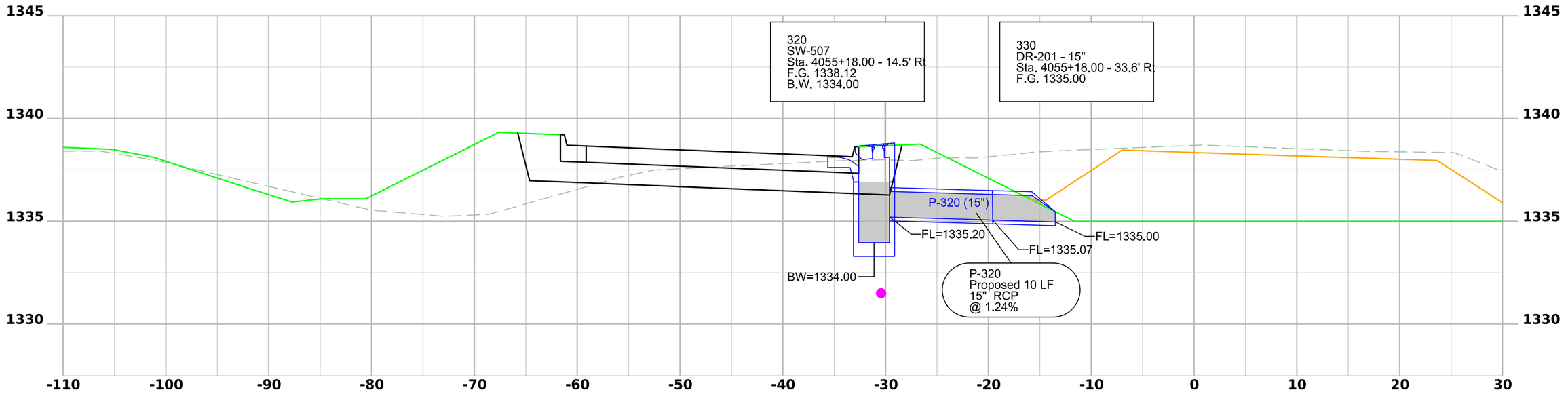
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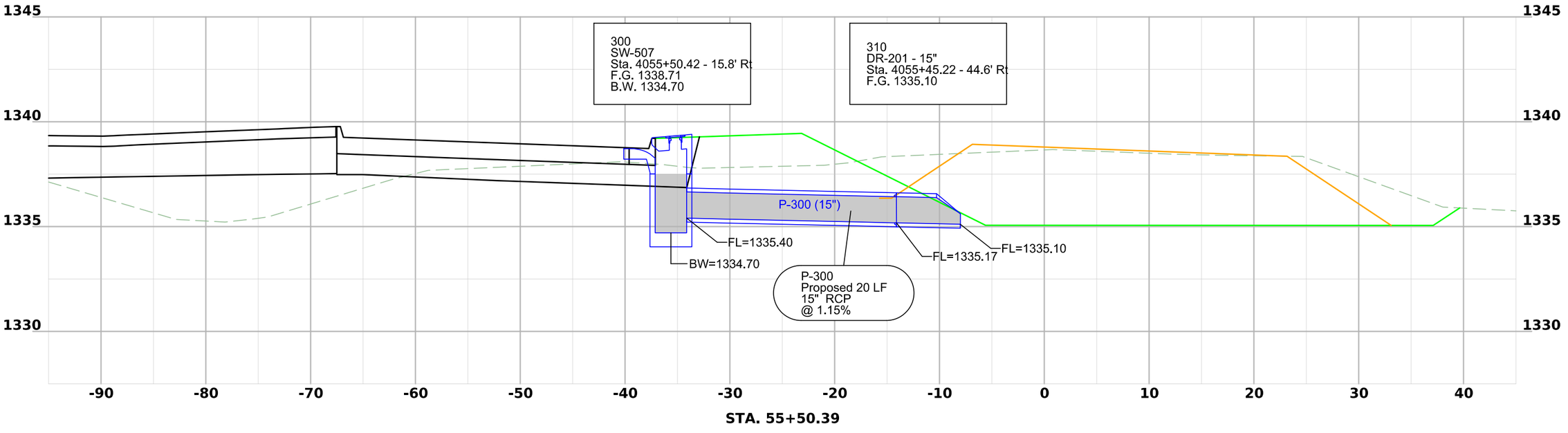
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FILE NO.	ENGLISH	DESIGN TEAM **Strum/Janus**	**CLAY** COUNTY	PROJECT NUMBER **HSIPX-018-2(142)--3H-21**	SHEET NUMBER **M.19**	

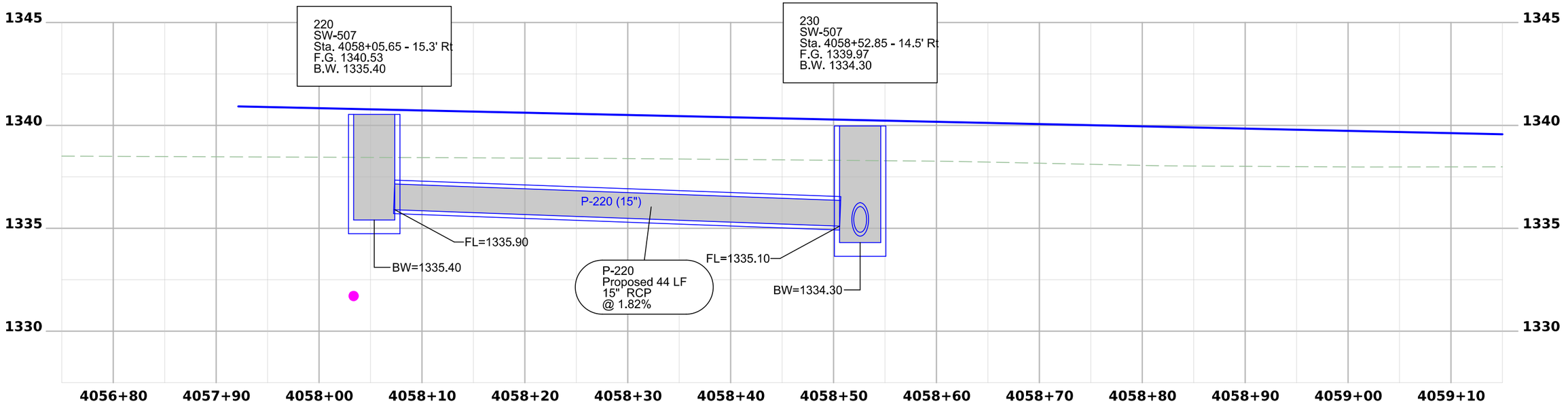
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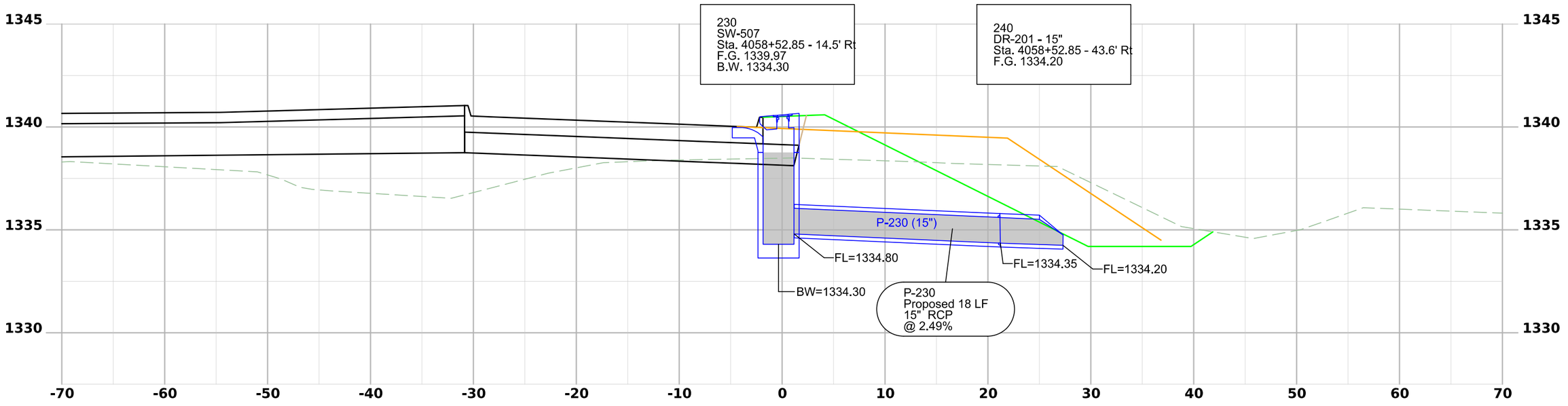




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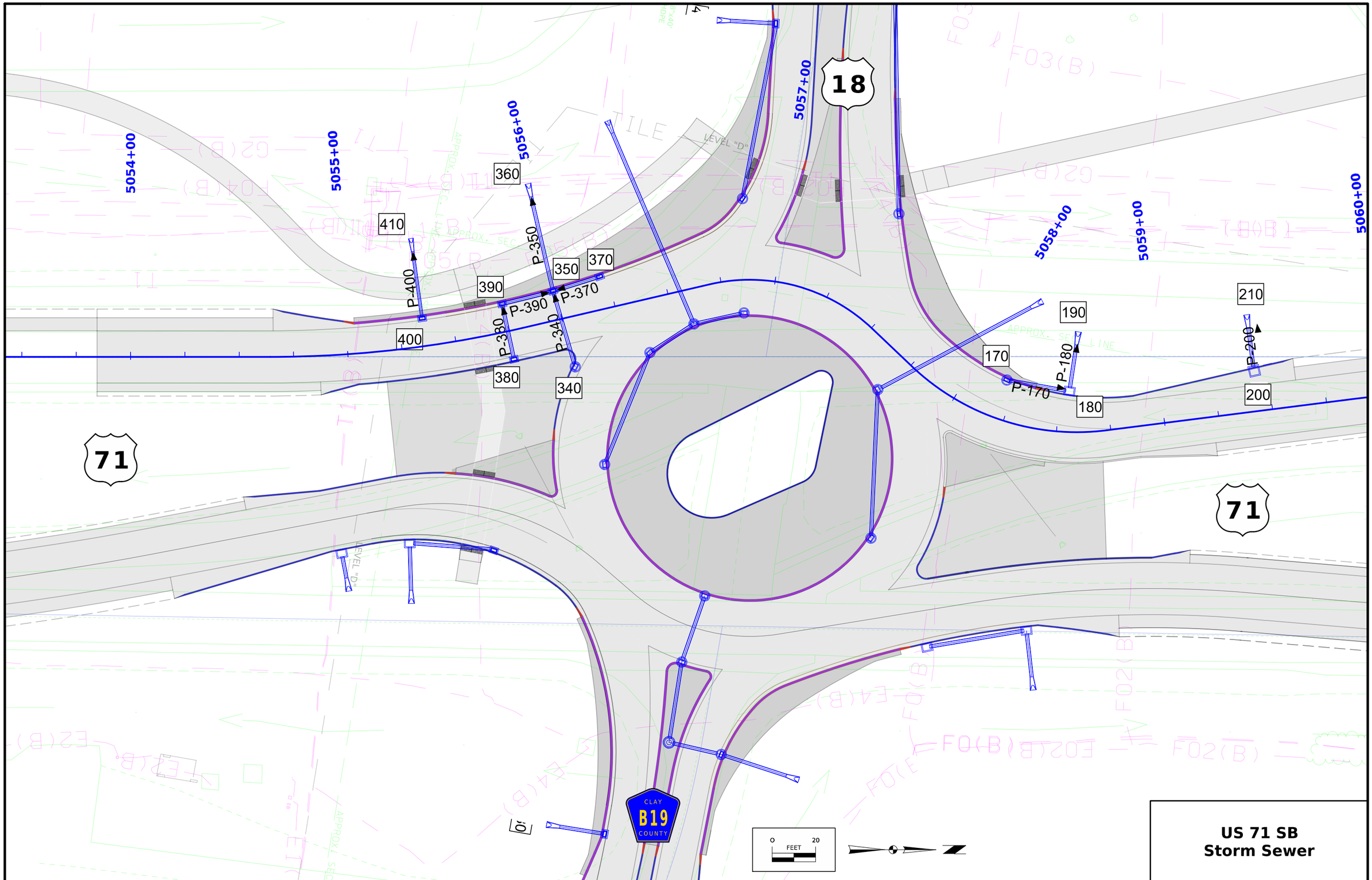
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FILE NO.	ENGLISH	DESIGN TEAM **Strum/Janus**	**CLAY** COUNTY	PROJECT NUMBER **HSIPX-018-2(142)--3H-21**	SHEET NUMBER **M.21**

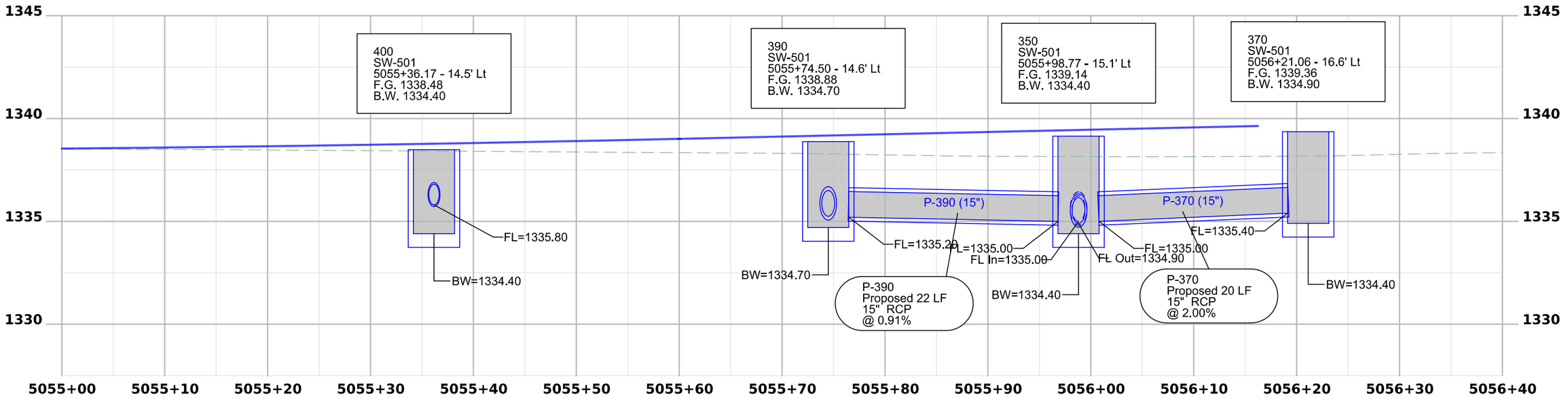
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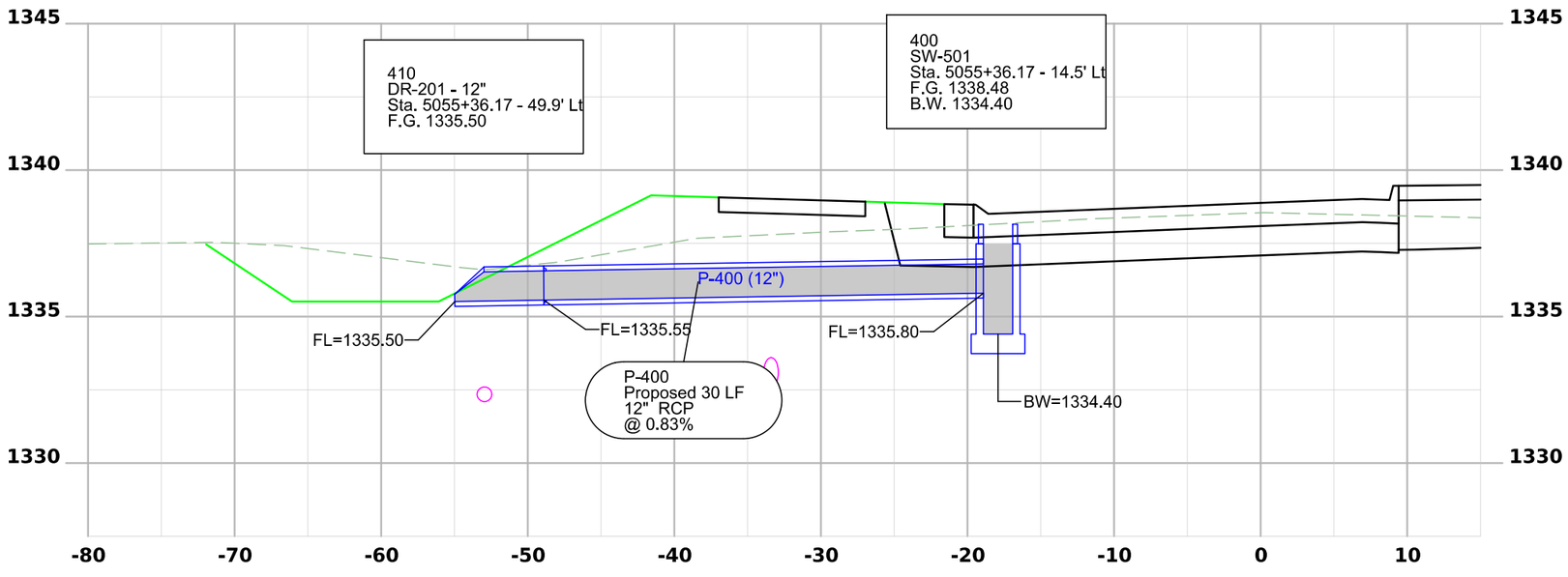


FILE NO.	ENGLISH	DESIGN TEAM **Strum/Janus**	**CLAY** COUNTY	PROJECT NUMBER **HSIPX-018-2(142)--3H-21**	SHEET NUMBER **M.22**

US 71 SB
Storm Sewer

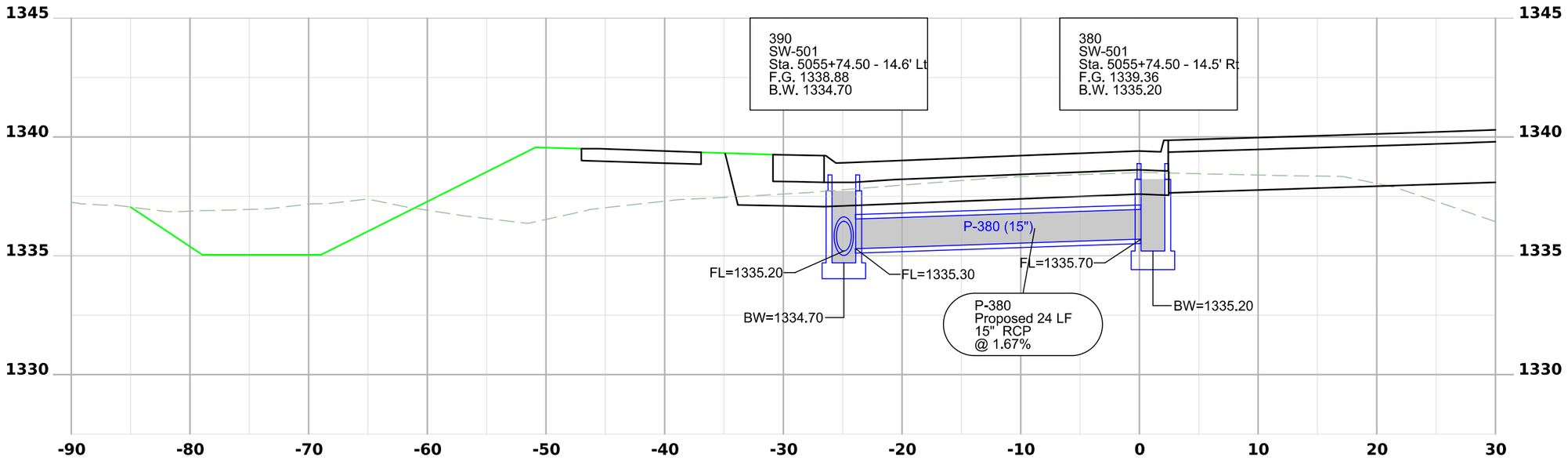
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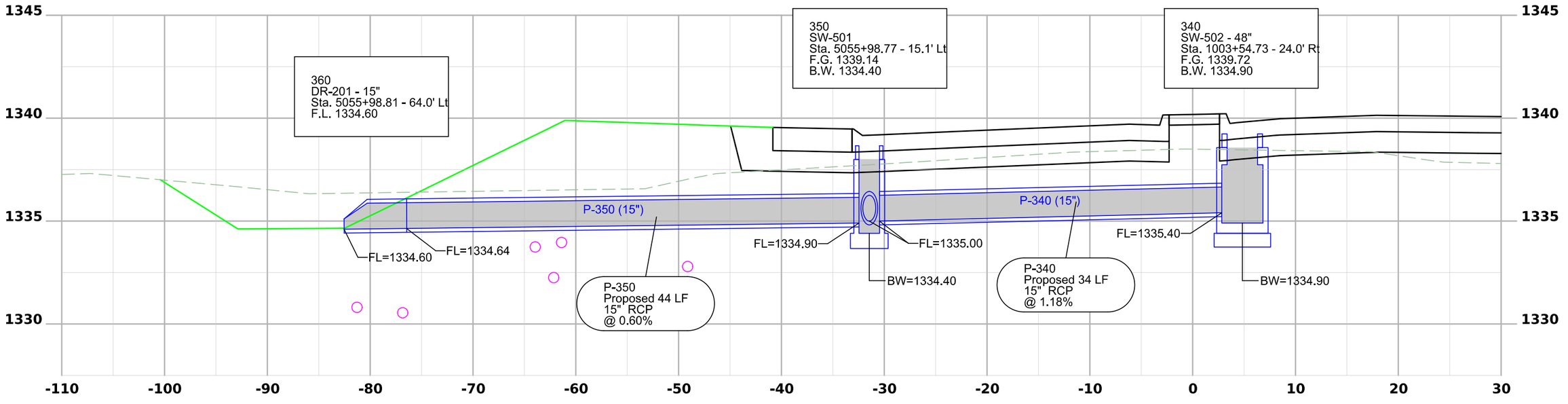


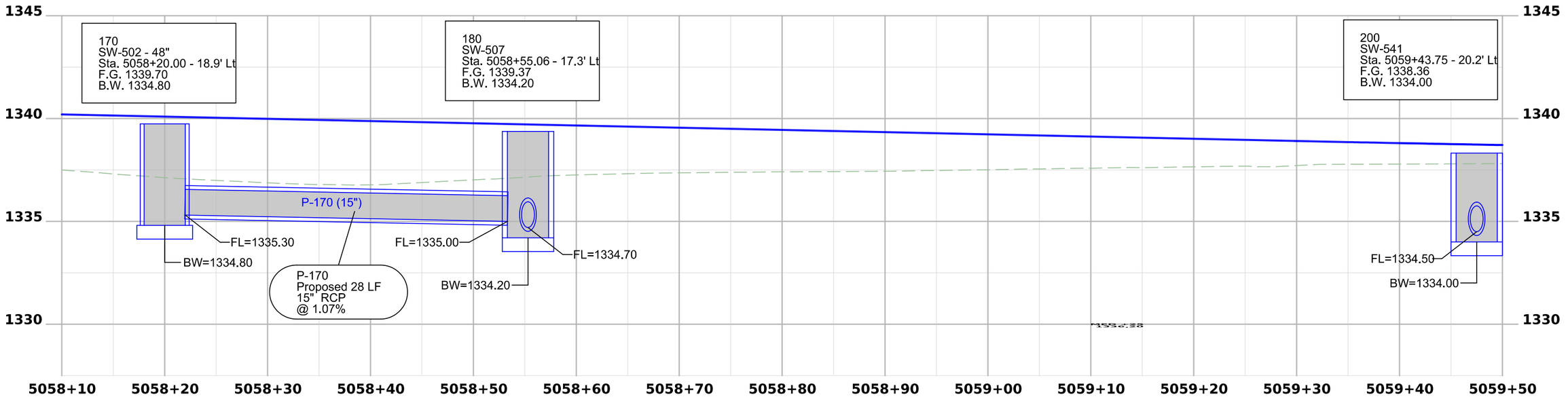


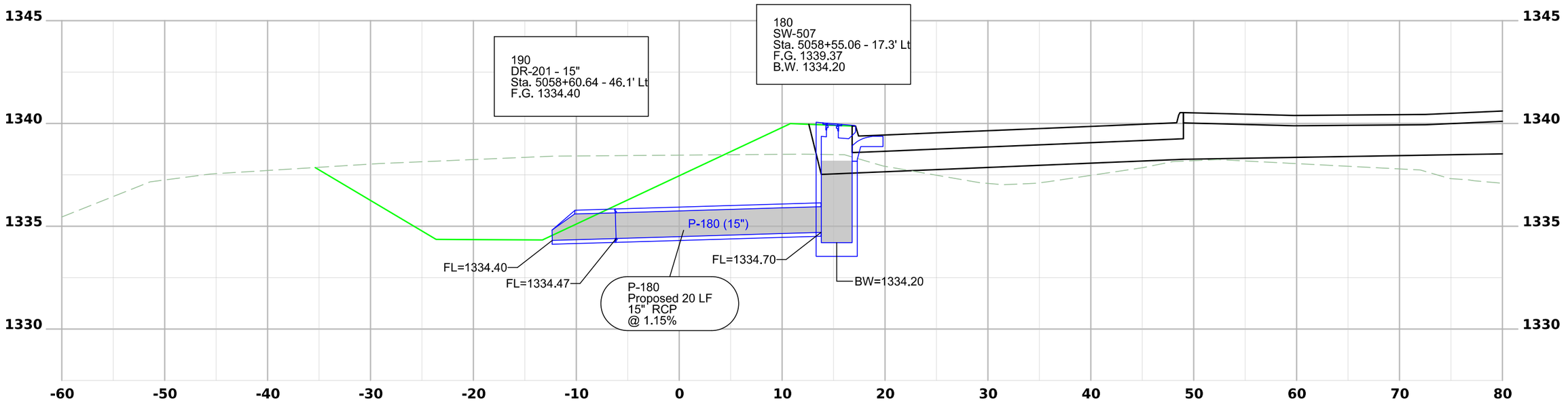
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390
SW-501
Sta. 5055+74.50 - 14.6' Lt
F.G. 1338.88
B.W. 1334.70
380
SW-501
Sta. 5055+74.50 - 14.5' Rt
F.G. 1339.36
B.W. 1335.20
P-380 (15")
FL=1335.20
FL=1335.30
FL=1335.70
BW=1334.70
BW=1335.20
P-380
Proposed 24 LF
15" RCP
@ 1.67%
1345
1340
1335
1330
-90
-80
-70
-60
-50
-40
-30
-20
-10
0
10
20
30

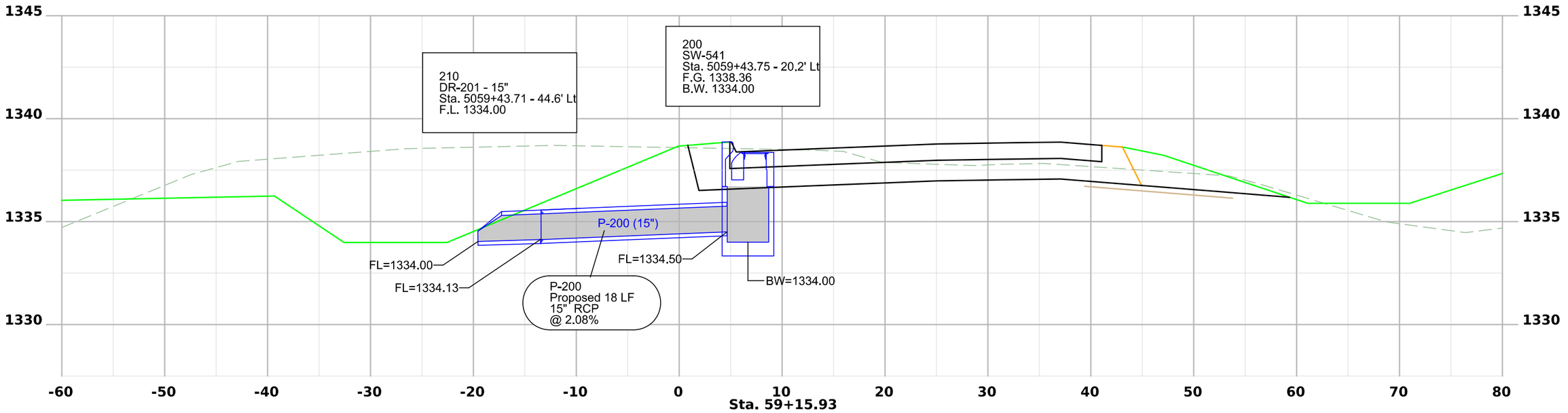

360
DR-201 - 15"
Sta. 5055+98.81 - 64.0' Lt
F.L. 1334.60
350
SW-501
Sta. 5055+98.77 - 15.1' Lt
F.G. 1339.14
B.W. 1334.40
340
SW-502 - 48"
Sta. 1003+54.73 - 24.0' Rt
F.G. 1339.72
B.W. 1334.90
P-350 (15")
P-340 (15")
FL=1334.60
FL=1334.64
FL=1334.90
FL=1335.00
FL=1335.40
BW=1334.40
BW=1334.90
P-350
Proposed 44 LF
15" RCP
@ 0.60%
P-340
Proposed 34 LF
15" RCP
@ 1.18%
1345
1340
1335
1330
-110
-100
-90
-80
-70
-60
-50
-40
-30
-20
-10
0
10
20
30





FILE NO.	ENGLISH	DESIGN TEAM **Strum/Janus**	**CLAY** COUNTY	PROJECT NUMBER **HSIPX-018-2(142)--3H-21**	SHEET NUMBER **M.25**

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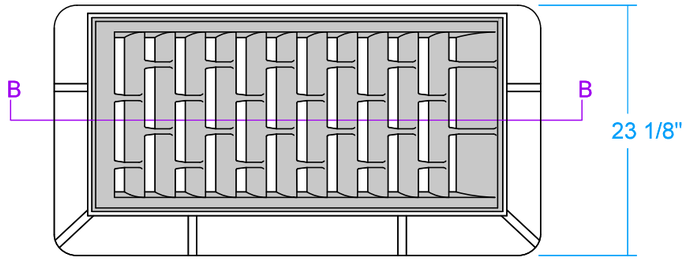


FILE NO.	ENGLISH	DESIGN TEAM **Strum/Janus**	**CLAY** COUNTY	PROJECT NUMBER **HSIPX-018-2(142)--3H-21**	SHEET NUMBER **M.26**	

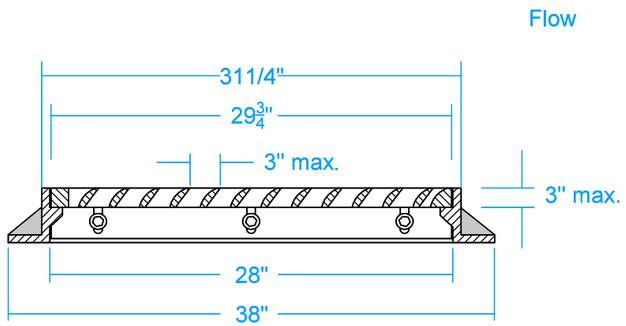
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TYPE L ①

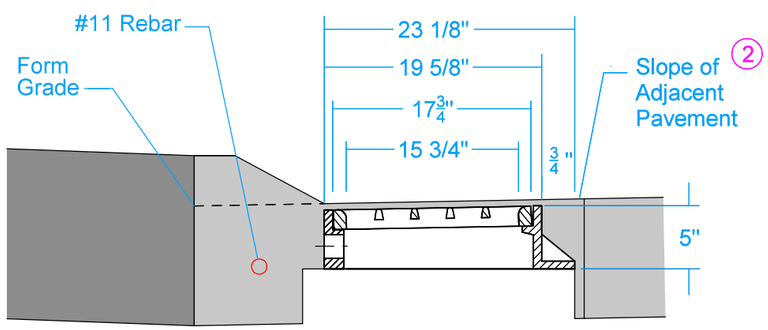
Gutter Inlet Grate
(Minimum open area 180 in^2)



PLAN



SECTION B-B

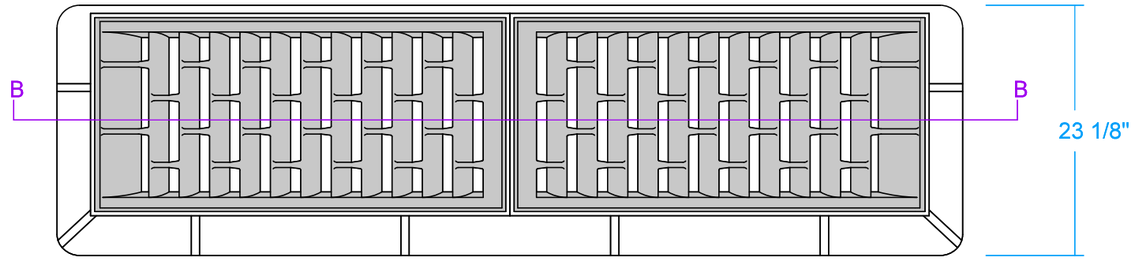


TYPICAL SECTION

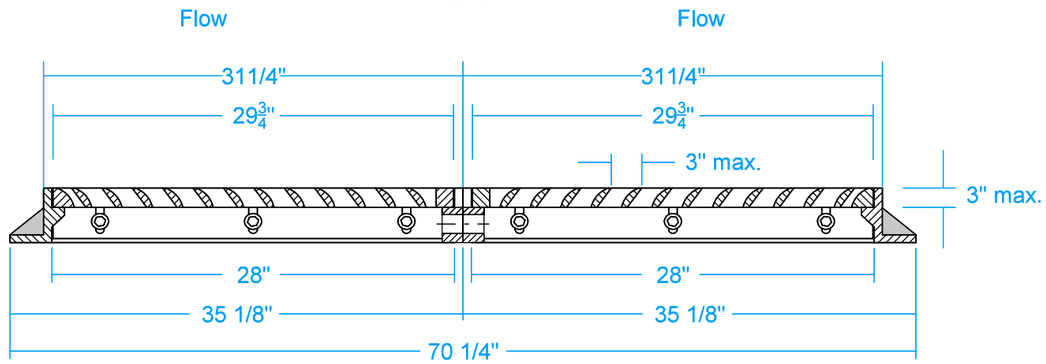
Neenah Foundry R-3076-L
or Equivalent

DOUBLE TYPE L ①

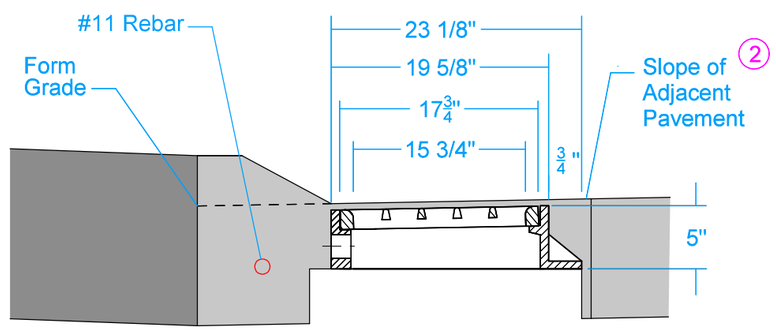
Gutter Inlet Grate
(Minimum open area 360 in^2)



PLAN



SECTION B-B



TYPICAL SECTION

Neenah Foundry R-3077-L
or Equivalent

① Provide bicycle-safe vane-style grate. At low points, grates with vanes facing both directions of flow are allowed.

② For details of boxout pavement, refer to SW-514.

MODIFIED

FIGURE 6010.603 STANDARD ROAD PLAN

REVISION	
6	10-16-18

SW-603

SHEET 1 of 1

GRATE 'A'

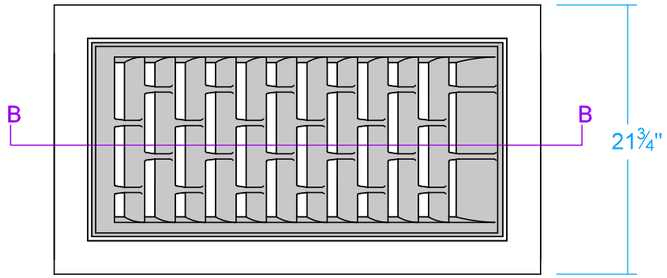
CASTINGS FOR GRATE INTAKES

FILE NO.	ENGLISH	DESIGN TEAM **Strum/Janus**	**CLAY** COUNTY	PROJECT NUMBER **HSIPX-018-2(142)--3H-21**	SHEET NUMBER **M.27**

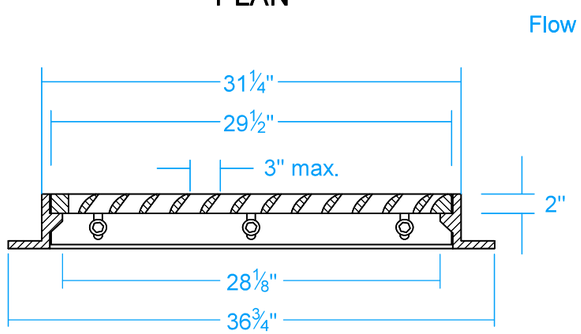
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TYPE L (1)

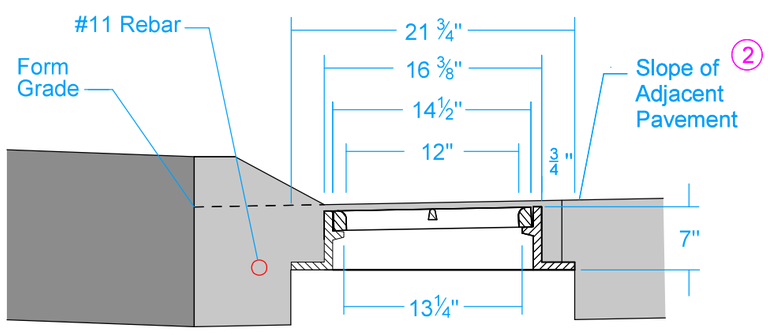
Gutter Inlet Grate
(Minimum open area 180 in^2)



PLAN



SECTION B-B

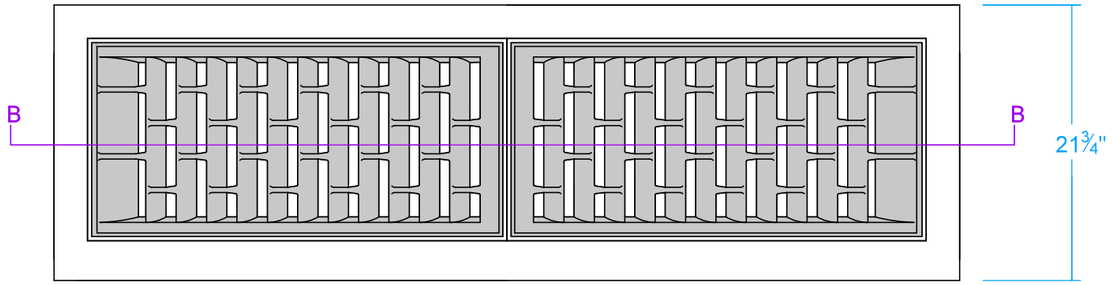


TYPICAL SECTION

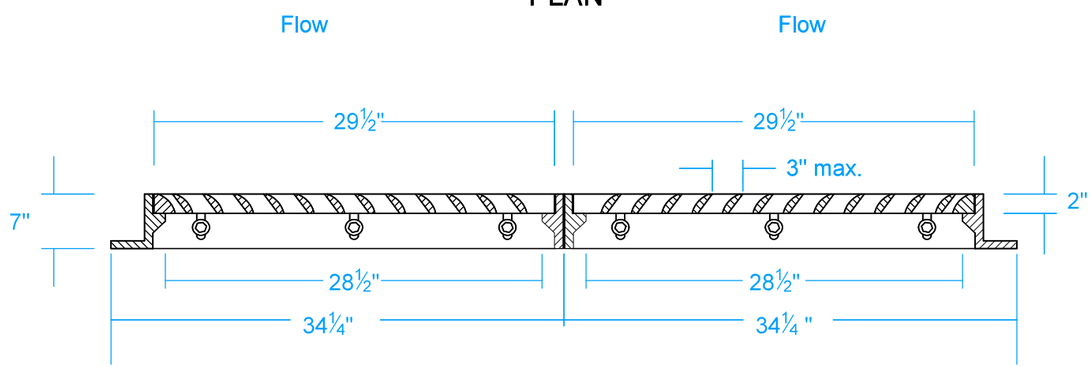
Neenah Foundry R-3408-L
or Equivalent

DOUBLE TYPE L (1)

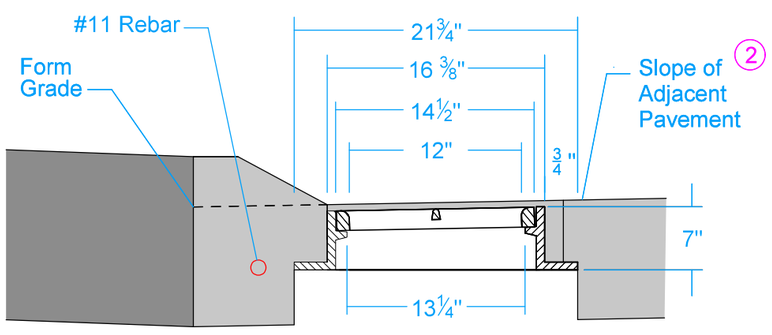
Gutter Inlet Grate
(Minimum open area 360 in^2)



PLAN



SECTION B-B



TYPICAL SECTION

Neenah Foundry R-3408-BL
or Equivalent

(1) Provide bicycle-safe vane-style grate. At low points, grates with vanes facing both directions of flow are allowed.

(2) For details of boxout pavement, refer to SW-514.

MODIFIED

FIGURE 6010.603 STANDARD ROAD PLAN

REVISION	
6	10-16-18

SW-603

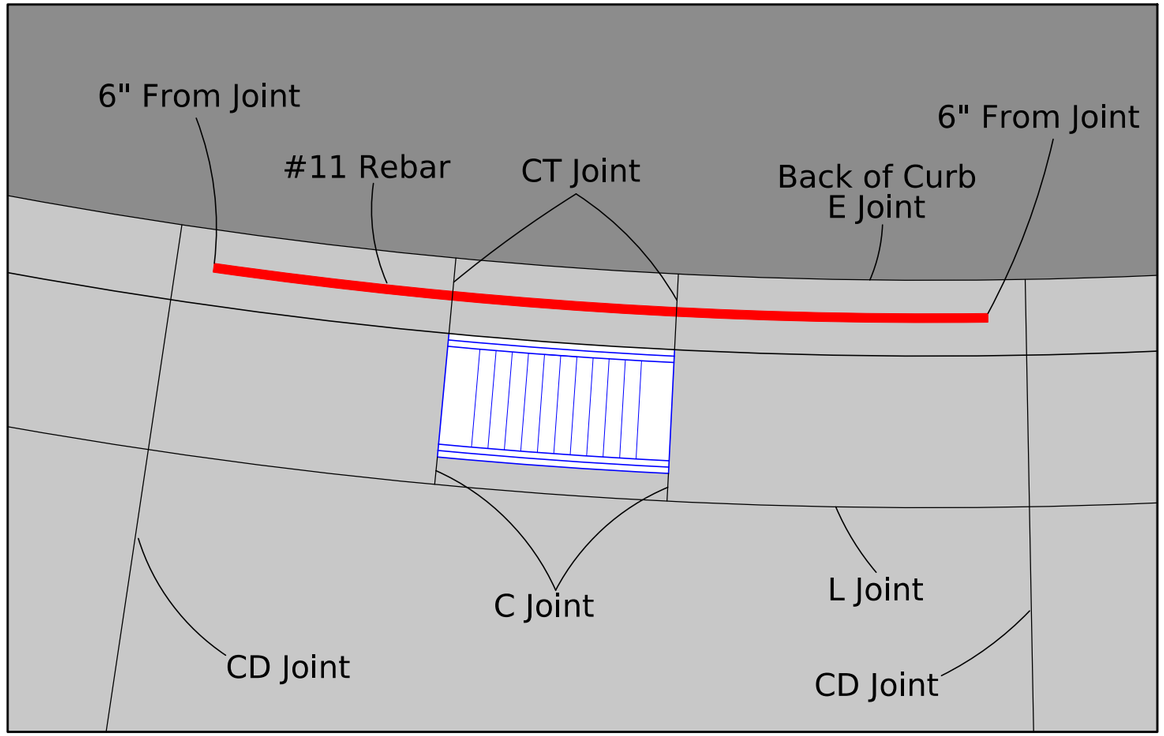
SHEET 1 of 1

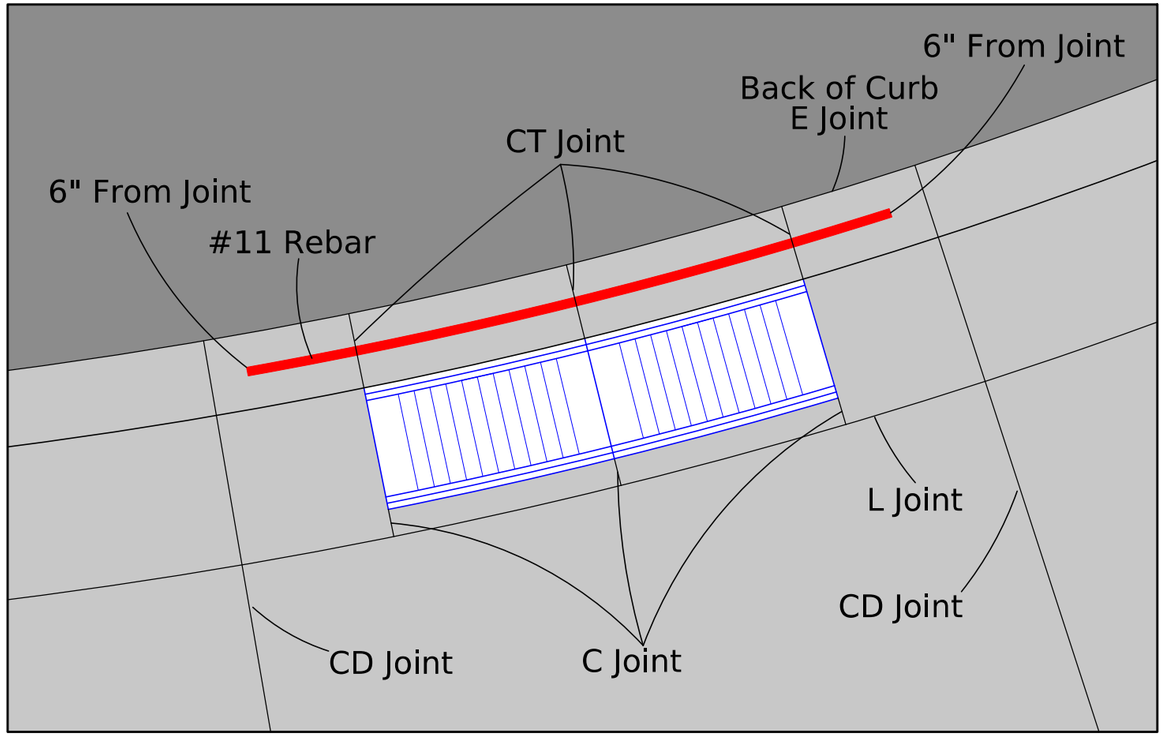
GRATE 'B'

CASTINGS FOR GRATE INTAKES

FILE NO.	ENGLISH	DESIGN TEAM **Strum/Janus**	**CLAY** COUNTY	PROJECT NUMBER **HSIPX-018-2(142)--3H-21**	SHEET NUMBER **M.28**

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JOINTING AT GRATE INTAKES

FILE NO.	ENGLISH	DESIGN TEAM **Strum/Janus**	**CLAY** COUNTY	PROJECT NUMBER **HSIPX-018-2(142)--3H-21**	SHEET NUMBER **M.29**	

11:48:15 AM 6/17/2026 jstrum pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\2101802023\Design\CADD_Files\Sheet_Files\SHT_21018142_M27_29.dgn

SURVEY SYMBOLS

- Interstate Highway Symbol
- U.S. Highway Symbol
- Iowa Highway Symbol
- County Road Highway Symbol
- Evergreen Tree
- Deciduous Tree
- Fruit Tree
- Shrub (Bushes)
- Timber
- Hedge
- Stump
- Swamp
- Rock Outcrop
- Broken Concrete
- Revetment (Rip Rap)
- Cemetery
- Grave
- Cave
- Sink Hole
- Board Fence
- Chain Link or Security Fence
- Wire Fence
- Terrace
- Earth Dam or Dike (Existing)
- Tile Outlet
- Edge of Water
- Existing Drainage
- Right of Way Rail or Lot Corner
- Concrete Monument
- Well
- Windmill
- Beehive Intake
- Existing Intake
- Existing Utility Access (Manhole)
- Fire Hydrant
- WH Water Hydrant (Rural)
- Septic Tank — Example Text and Line
- C Cistern
- LP L.P. Gas Tank (No Footing)
- UST Underground Storage Tank
- Latrine
- Satellite TV Dish
- WHU Water Hook Up
- RT Radio Tower
- TA Tower Anchor
- Guardrail (Beam or Cable)
- GP Guard Post (one or two)
- Guard Post (over two)
- FP Filler Pipe
- GV Gas Valve
- WV Water Valve
- SL Speed Limit Sign
- MM Mile Marker Post
- SIGN Sign
- TCB Traffic Signal Control Box
- RRB Rail Road Signal Control Box
- TSB Telephone Switch Box
- EB Electric Box

UTILITY LEGEND

— E1 —
Alliant Energy
Billie Reid
Real Estate and ROW Representative II
billiereid@alliantenergy.com

— E2 —
Private Electrical Line (Owner Unknown)

— E3 —
Spencer Municipal Utilites
Sean Hefner
Electric Manager
sean.hefner@smunet.net 712-240-3618

— E4 —
Iowa DOT
Jason Dale
ITS Maintenance Engineer
Jason.Dale@iowadot.us

— E5 —
Iowa Lakes Electric Coop
Brian Scott
Field Superintendent
brians@ilec.coop 7122604012

— F0 —
Spencer Municipal Utilites
Mark White
Public Works Director
mwhite@spenceriowacity.com

— F02 —
LongLines Broadband
Tom Connors
Design/Construction Manager
tconnors@longlines.biz 515-554-5227

— F03 —
H&D UNDERGROUND

— F04 —
Iowa Communicatlons Network (ICN)
David Augspurger
Sr Telecom Specialist | OSP Lead
david.augspurger@icn.state.ia.us (515) 229-2013

— F05 —
CenturyLink
Steve Parker
Manager of Engineering & Construction
Steven.Parker4@lumen.com 5073581978

— G —
Northern Natural Gas
Jeff Larson
Senior Right of Way Agent
Jeff.Larson@nngco.com

— G2 —
GL1D, Black Hills Energy - Quality D
Morgan Post
Design Engineer
morgan.post@blackhillscorp.com 307-696-9394

— ST S(C) —

— T1 —
Lumen CenturyLink
Steve Parker
Manager of Engineering & Construction
Steven.Parker4@lumen.com 5073581978

— W —
Spencer Municipal Utilities (SMU)
Mark White
Public Works Director
mwhite@spenceriowacity.com

PPB, Iowa Lakes Electric Coop

PPA, Spencer Municipal Utilities (SMU)

— F06 —
FO5D, Mediacom - Quality D
Jeff Anfinson
Technical Operations Manager
janfinson@mediacomcc.com

— F07 —
FO5D, Private Midwestern Mechanical - Quality D

— F08 —
FO5D, Premier Communications - Quality D

PLAN VIEW COLOR LEGEND OF SOILS SHEETS

LINEWORK	Design Color No.	
Green	(2)	Existing Topographic Features and Labels
Purple (Halo)	(15)	Backslope Drains
Blue	(1)	Proposed Alignment, Stationing, Tic Marks, and Alignment Annotation
SHADING	**Design Color No.**	
Brown, Light	(236)	Core Out

PROFILE VIEW COLOR LEGEND OF SOILS SHEETS

LINEWORK	Design Color No.	
Blue	(1)	Proposed Alignment, Stationing, and Alignment Annotation
Green	(2)	Existing Ground Line Profile
Green, Med	(2)	Topsoil
Green, Med	(2)	Slope Dressing Only
Orange	(6)	Loam
Aqua (Cyan)	(7)	Class 10
Brown, Med	(4)	Sand
Red	(3)	Unsuitable A
Pink, Dark	(13)	Unsuitable B
Pink	(11)	Unsuitable C
Red	(3)	Shale
Red	(3)	Waste
Gray, Light	(48)	Broken and Weathered Rock
Gray, Med	(80)	Rock
Gray, V.Dark	(128)	Boulders

PATTERN AND SYMBOL LEGEND OF SOILS SHEETS

- Drill
- Dig/Core
- Date(s) Drilled _____
- Water
- Treatment
- Sandstone
- Dry
- Sand Blanket
- Unsuitable A
- Sample
- Soil Remediation Area
- Unsuitable B
- Plugged
- Select Soil
- Unsuitable C
- Moisture
- Select Sand
- Sandy Soil
- Shelby
- Slope Dressing Only
- Boulders
- Blow Count
- Broken and Weathered Rock
- Shale
- Dens. Core
- Rock

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

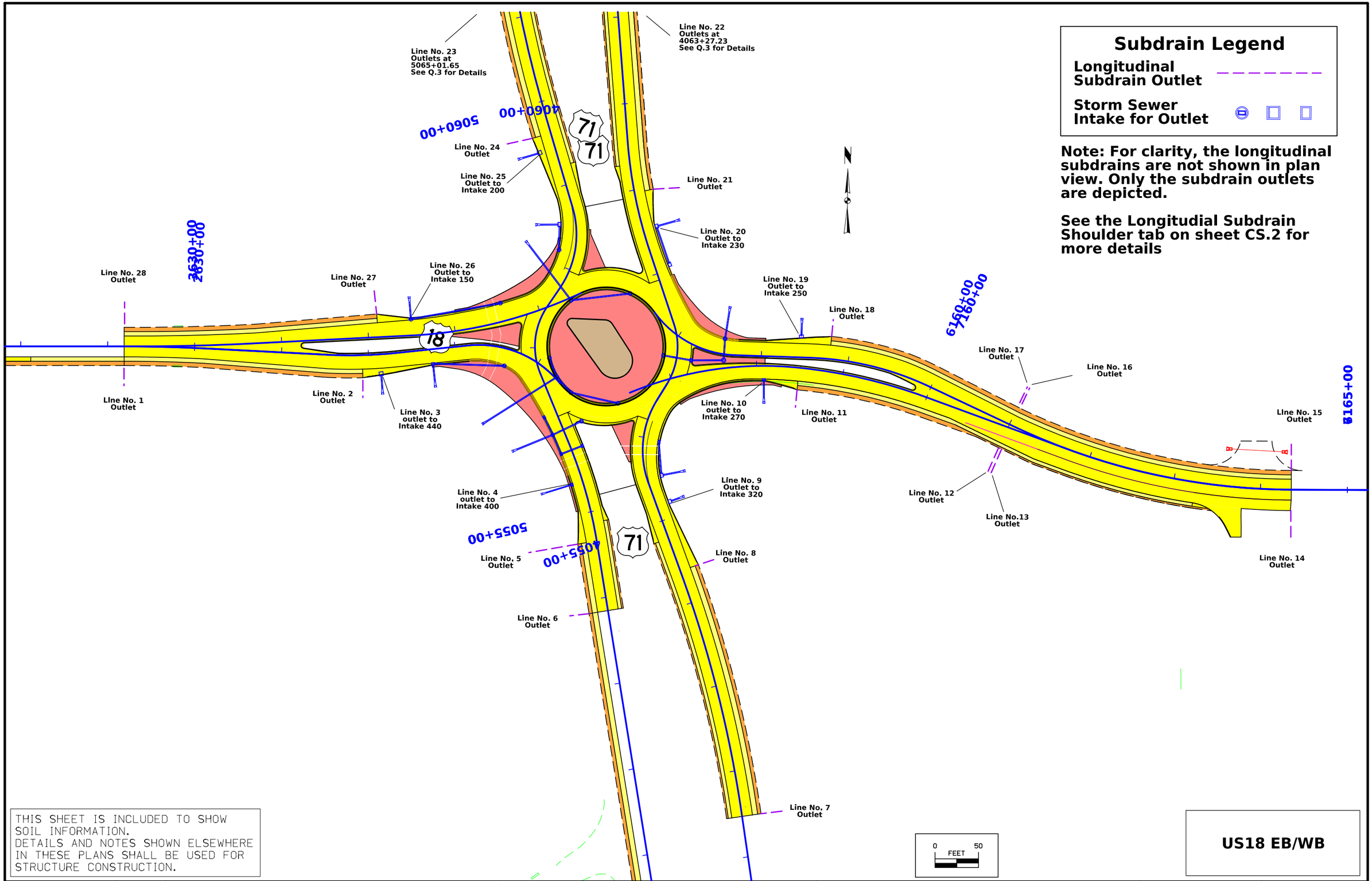
NOTE: Sounding and test boring data shown in the plans were accumulated for designing and estimating purposes. Their appearance on the plans does not constitute a guarantee that conditions other than those indicated will be encountered. Details and notes shown elsewhere shall be used for roadway and structure construction.

SOILS LEGEND AND SYMBOL INFORMATION SHEET

(COVERS SHEET SERIES Q)

FILE NO.	ENGLISH	DESIGN TEAM **Dell/Immel**	**CLAY** COUNTY	PROJECT NUMBER **HSIPX-018-2(142)--3L-21**	SHEET NUMBER **Q.1**

8:15:01 AM 6/12/2026 gimmel pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\2101802023\Soils\CADD\SHT_21018142_Subdrain_Qshts.dgn

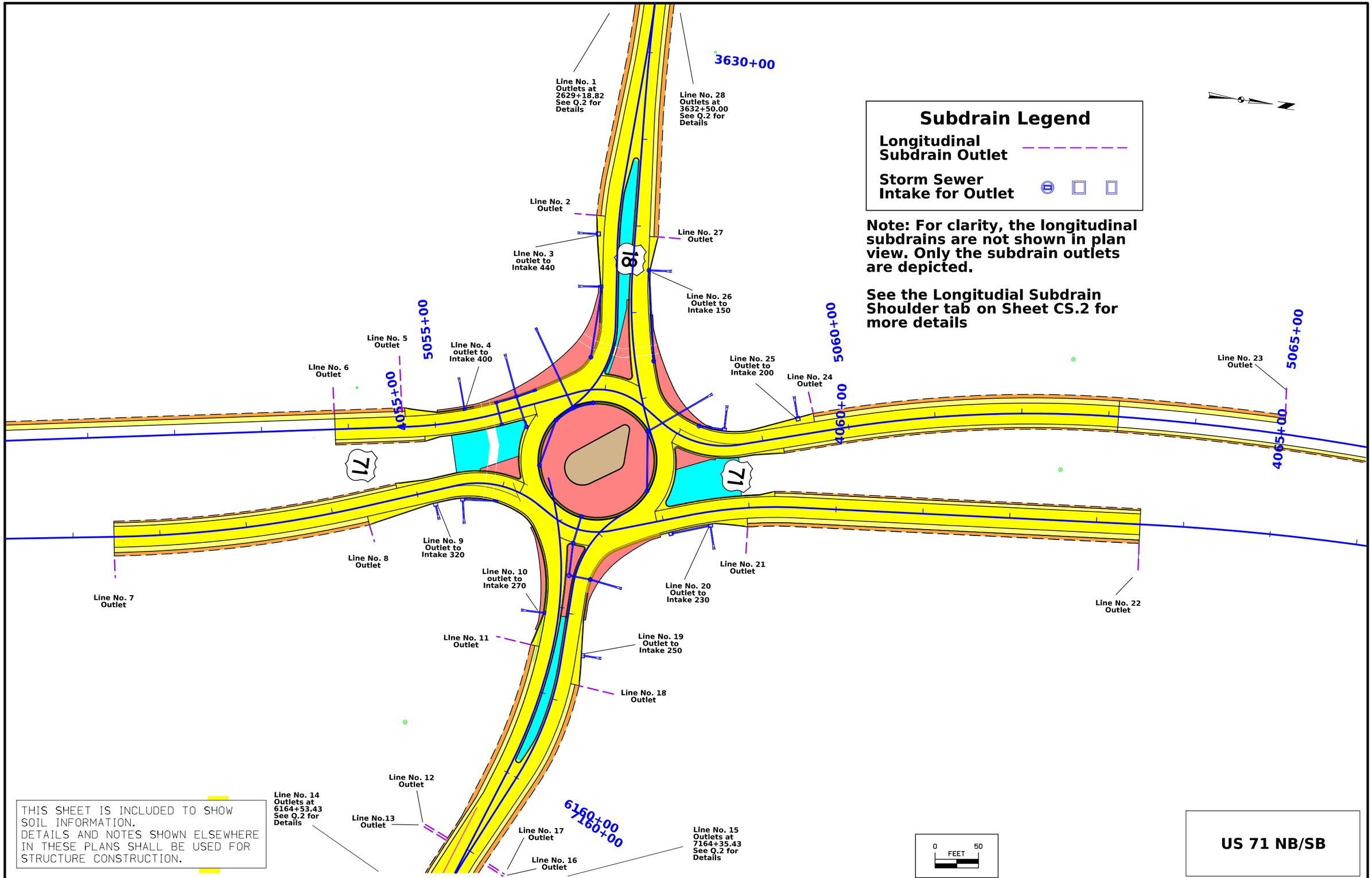


THIS SHEET IS INCLUDED TO SHOW SOIL INFORMATION.
DETAILS AND NOTES SHOWN ELSEWHERE IN THESE PLANS SHALL BE USED FOR STRUCTURE CONSTRUCTION.

US18 EB/WB

FILE NO.	ENGLISH	DESIGN TEAM **Dell/Immel**	**CLAY** COUNTY	PROJECT NUMBER **HSIPX-018-2(142)--3L-21**	SHEET NUMBER **Q.2**

8:15:10 AM 6/12/2026 gimmel pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\2101802023\Soils\CADD\SHT_21018142_Subdrain_Qshts.dgn



FILE NO.	ENGLISH	DESIGN TEAM **Dell/Immel**	**CLAY** COUNTY	PROJECT NUMBER **HSIPX-018-2(142)--3L-21**	SHEET NUMBER **Q.3**

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LANDSCAPE DESIGN

STATE OF IOWA
Rachel
A. Harris
LA000775
PROFESSIONAL LANDSCAPE ARCHITECT

I hereby certify that the portion of this technical submission described below was prepared by me or under my direct supervision and responsible charge. I am a duly licensed professional landscape architect under the laws of the state of Iowa.

Signature 06-01-2026 Date

Rachel A. Harris
Printed or Typed Name

My license renewal date is June 30, 2028

Pages or sheets covered by this seal: RC.1 - 18; RR.1 - 15

FILE NO.	ENGLISH	DESIGN TEAM **Harris/Pohlen/McDonald**	**Clay** COUNTY	PROJECT NUMBER **HSIPX-018-2(142)--3L-21**	SHEET NUMBER **RC.1**	

2:47:35 PM 6/11/2026 npohlen pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\2101802023\Roadside\21018142_Signature.dgn

ESTIMATED PROJECT QUANTITIES AND REFERENCE NOTES

Item no.	Item Code	Item	Unit	Quantities Estimated Roadside Items	Estimate Reference Notes
1	2507-3250005	ENGINEERING FABRIC	SY	400.9	Refer to Tab. 100-23 for locations. Refer to Standard Road Plan EC-301. Use material specified for embankment erosion control according to Article 4196.01, B, 3. of the Standard Specifications. Material will be measured in sq. yds. of actual area covered. Refer to details. The tabulation includes estimated locations for placement of "Engineering Fabric" to address erosion at culvert outlets. The bid quantity includes an additional 30% for other locations as needed. Verify additional locations with the Engineer prior to placement.
2	2507-8029000	EROSION STONE	TON	220.2	Refer to Tab. 100-23 for locations. Refer to Standard Road Plan EC-301. The tabulation includes estimated locations for placement of "Erosion Stone" to address erosion to be encountered during construction. Verify specific locations with the Engineer prior to beginning placement. Bid item includes 30% additional quantity for other locations of erosion. Estimated at 1.6 ton/cu yd. Erosion Stone shall meet requirements of Article 4130 of the Standard Specifications.
3	2601-2634100	MULCHING	ACRE	17.3	Perform mulching according to Article 2601.03, E, 2, of the Standard Specifications. Anchor mulch into the soil using mulch anchoring equipment with a minimum of two passes. Item is included for areas requiring reshaping and seedbed preparation except where slope protection has been applied. Use mulch that is Certified Noxious Weed Seed Free Mulch as certified by the Iowa Crop Improvement Association or adjacent states Crop Improvement Associations. Mulch Rate: 1 1/2 tons of dry cereal straw or native grass straw per acre. The bid quantity includes an additional 25% for areas needing reapplication of mulch during the project.
4	2601-2636043	SEEDING AND FERTILIZING (RURAL)	ACRE	9.6	Refer to pages RR.9 - RR.15 for seeding locations. Seed and fertilize all areas indicated in site plans according to Article 2601.03, C, 3, of the Standard Specifications.
5	2601-2636044	SEEDING AND FERTILIZING (URBAN)	ACRE	4.6	Refer to pages RR.9 - RR.15 for seeding locations. Prepare seedbed, fertilize, and seed according to Article 2601.03, C, 4, of the Standard Specifications. Review seeding areas with Engineer or Iowa DOT representative prior to seeding.

Item no.	Item Code	Item	Unit	Quantities	Estimate Reference Notes
				Estimated	
				Roadside Items	
6	2601-2642100	STABILIZING CROP - SEEDING AND FERTILIZING	ACRE	9.6	Item is included for short term stabilization of disturbed areas. Seed and fertilize all disturbed areas according to Article 2601.03, C, 1, of the Standard Specifications. If permanent seeding cannot be placed due to the restrictive planting dates, stabilizing crop will need to be placed on all disturbed areas as temporary erosion control. When stabilizing crop must be used, place immediately following completions of finished grading. Reseeding of these areas will be required at contractors expense if damage occurs due to contractors negligence during the contract period. It is not necessary to place stabilizing crop in locations that have been covered by slope protection or special ditch control.
7	2601-2642120	STABILIZING CROP - SEEDING AND FERTILIZING (URBAN)	ACRE	4.6	Item is included for short term stabilization of disturbed areas. Seed and fertilize all disturbed areas according to Article 2601.03, C, 2, of the Standard Specifications. If permanent seeding cannot be placed due to the restrictive planting dates, stabilizing crop will need to be placed on all disturbed areas as temporary erosion control. When stabilizing crop must be used, place immediately following completions of finished grading. Reseeding of these areas will be required at contractors expense if damage occurs due to contractors negligence during the contract period. It is not necessary to place stabilizing crop in locations that have been covered by slope protection or special ditch control.
8	2601-2643110	WATERING FOR SOD, SPECIAL DITCH CONTROL, OR SLOPE PROTECTION	MGAL	1.5	Estimate for watering Special Ditch Control, Slope Protection Areas, Turf Reinforcement Mat, or Transition Mat is based on a total of four waterings at a rate of 50 gallons maximum per square, per watering. The first watering should be done no later than the day following placement of the materials with 3 additional watering at intervals of 5 to 8 calendar days. The amount of water used should be sufficient to saturate the seedbed to a depth of approximately 2 inches.
9	2601-2643300	MOBILIZATION FOR WATERING	EACH	3	
10	2601-2700020	TRANSITION MAT	SF	729	Refer to Tab 100-09 for locations. Refer to Standard Road Plan EC-105. Install Transition Mat in accordance with the Standard Specifications 2601.03, H, 6.

Item no.	Item Code	Item	Unit	Quantities Estimated Roadside Items	Estimate Reference Notes
11	2602-0000020	SILT FENCE	LF	1,314	Refer to Tab. 100-17 for locations. Refer to Standard Road Plan EC-201. The tabulation includes estimated locations for placement of "Silt Fence" to address erosion to be encountered during construction. Verify the specific locations with the Engineer prior to beginning placement. Bid item includes 25% additional quantity for field adjustments and replacements.
12	2602-0000030	SILT FENCE FOR DITCH CHECKS	LF	1,350	Refer to Tab 100-18 for locations. Refer to Standard Road Plan EC-201. The tabulation includes estimated locations for placement of "Silt Fence for Ditch Checks" to address erosion to be encountered during construction. Verify the specific locations with the Engineer prior to beginning placement. Bid item includes 50% additional quantity for field adjustments and replacements.
13	2602-0000071	REMOVAL OF SILT FENCE OR SILT FENCE FOR DITCH CHECKS	LF	2,664	This item is included for silt fence and silt fence for ditch check removal required for staging reasons, removal to allow for replacement (replacement to be paid separately), or for areas that have achieved 70% permanent growth. This item is included for silt fence and silt fence for ditch check removal. Remove silt fence and posts after mulching or vegetation is established and approved by the engineer.
14	2602-0000101	MAINTENANCE OF SILT FENCE OR SILT FENCE FOR DITCH CHECK	LF	266	This item is included for clean-out and repair of the silt fence and silt fence for ditch checks during the project.
15	2602-0000150	STABILIZED CONSTRUCTION ENTRANCE, EC-303	LF	500	Refer to Standard Road Plan EC-303.
16	2602-0000312	PERIMETER AND SLOPE SEDIMENT CONTROL DEVICE, 12 IN. DIA.	LF	370	Refer to Tab. 100-19 for locations. Refer to Standard Road Plan EC-204. The tabulation includes estimated locations for placement of "Perimeter and Slope Sediment Control Device, 12 in. dia." to address erosion to be encountered during construction. Verify the specific locations with the Engineer prior to beginning placement. Bid item includes 25% additional quantity for field adjustments and replacements.
17	2602-0000320	PERIMETER AND SLOPE SEDIMENT CONTROL DEVICE, 20 IN. DIA.	LF	370	Refer to Standard Road Plan EC-204. Item is included for temporary perimeter sediment control, inlet protection, and water velocity reduction on slopes or ditches at locations to be determined during construction. Verify specific locations with the Engineer prior to beginning placement. Item may be used in addition to, or as a direct replacement for "Perimeter and Slope Sediment Control Device, 12 in. dia." upon Engineer approval.
18	2602-0000351	REMOVAL OF PERIMETER AND SLOPE OR DITCH CHECK SEDIMENT CONTROL DEVICE	LF	1,880	

Item no.	Item Code	Item	Unit	Quantities	Estimate Reference Notes
				Estimated	
				Roadside Items	
19	2602-0000362	DITCH CHECK SEDIMENT CONTROL DEVICE, 12 IN. DIA.	LF	570	Refer to Tab. 100-19 for locations. Refer to Standard Road Plan EC-204. The tabulation includes estimated locations for placement of "Ditch Check Sediment Control Device, 12 in. dia." to address erosion to be encountered during construction. Verify the specific locations with the Engineer prior to beginning placement. Bid item includes 25% additional quantity for field adjustments and replacements.
20	2602-0000370	DITCH CHECK SEDIMENT CONTROL DEVICE, 20 IN. DIA.	LF	570	Refer to Standard Road Plan EC-204. Item may be used in addition to, or as a direct replacement for "Perimeter and Slope Sediment Control Device for Ditch Checks, 12 in. dia." upon Engineer approval.
21	2602-0000530	GRATE INTAKE SEDIMENT FILTER BAG, EC-604	EACH	33	Refer to Tab 100-37 for locations. Refer to Standard Road Plan EC-604.
22	2602-0000540	MAINTENANCE OF GRATE INTAKE SEDIMENT FILTER BAG	EACH	33	
23	2602-0000550	REMOVAL OF GRATE INTAKE SEDIMENT FILTER BAG	EACH	33	
24	2602-0010010	MOBILIZATIONS, EROSION CONTROL	EACH	1	
25	2602-0010020	MOBILIZATIONS, EMERGENCY EROSION CONTROL	EACH	1	

281_03
11/9/23

STORM WATER BEST MANAGEMENT PRACTICES

When the following best management practices are used, they are intended to account for disturbed areas where storage volume cannot be provided: Silt Fences, Silt Fence For Ditch Checks Perimeter and Slope Sediment Control Devices, Grate Intake Sediment Filter Bag, Rock Splash Basins, Transition Mat, and Seeding.

111_25
4/21/26

INDEX OF TABULATIONS

Tabulation	Tabulation Title	Sheet No.
111_25	INDEX OF TABULATIONS	RC.7
105_04	STANDARD ROAD PLANS	RC.8
100_09	TRANSITION MAT	RC.9
100_17	TABULATION OF SILT FENCES	RC.10
100_18	SILT FENCES FOR DITCH CHECKS	RC.11 - RC.12
100_19	PERIMETER AND SLOPE SEDIMENT CONTROL DEVICE	RC.13
100_23	ROCK EROSION CONTROL	RC.14
100_37	GRATE INTAKE SEDIMENT FILTER BAG	RC.15
100_34	STORMWATER DRAINAGE BASIN	RC.16
110_12	POLLUTION PREVENTION PLAN	RC.17 - RC.18

6/10/2026 10:42:04 PM nathan.pohlen@iowadot.us

STANDARDS

The following Standards apply to construction work on this project.

Number	Date	Title
EC-105	04-17-18	Transition Mat
EC-201	04-20-21	Silt Fence
EC-204	10-19-21	Perimeter, Slope and Ditch Check Sediment Control Devices
EC-301	10-18-22	Rock Erosion Control (REC)
EC-303	10-19-21	Stabilized Construction Entrance
EC-604	10-17-23	Grate Intake Sediment Filter Bag

TRANSITION MAT

Refer to EC-105

Station	Side	Length (LF)	Width (LF)	Area (SF)	Remarks
2632+13.00	Right	9.0	9.0	81.0	Outlet Protection
2632+73.00	Right	9.0	9.0	81.0	Outlet Protection
5055+36.00	Left	9.0	9.0	81.0	Outlet Protection
5056+00.00	Left	9.0	9.0	81.0	Outlet Protection
5056+57.00	Left	9.0	9.0	81.0	Outlet Protection
4054+53.00	Right	9.0	9.0	81.0	Outlet Protection
4055+14.00	Right	9.0	9.0	81.0	Outlet Protection
4055+53.00	Right	9.0	9.0	81.0	Outlet Protection
6158+00.00	Right	9.0	9.0	81.0	Outlet Protection
Total:				**729**	

100_17
8/15/22

TABULATION OF SILT FENCES

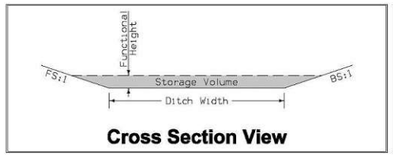
Refer to EC-201

Station From	Station To	Side	Length (FT)	Remarks
2628+59.00	5053+24.00	Left	726.00	Sta. from US 18 to US 71, See Note
4051+62.00	4054+72.00	Left	325.00	See Note
Total:			**1051**	

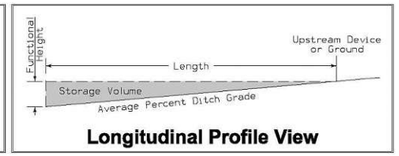
Note: Silt fence will be used as a barrier between private property and construction activities. Silt fence can be a continuous run and is not subject to the 200' maximum run rule.

SILT FENCES FOR DITCH CHECKS

Possible Standard: EC-201



Cross Section View



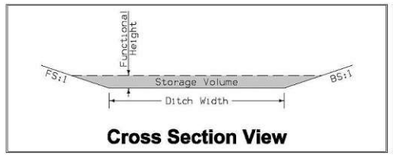
Longitudinal Profile View

* The functional height used in the volume equation is 85% of effective height. Effective height is 1.58 feet as shown on EC-201.
* Volume equation: [0.5*Spacing*(0.5*H^2*FS+DW*H+0.5*H^2*BS)]

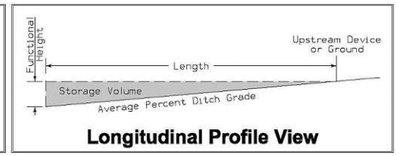
Basin No.	Type	Station	Side	Installation (LF)	Maintenance (LF)	Removal (LF)	Foreslope (FS:1)	Backslope (BS:1)	Ditch Width (FT)	Avg. % Slope Ditch Grade	Volume (CF)	Remarks
1	Type 1	9614+50.00	Left	18.0	1.8	18.0	4.0	4.0	10.0	1.3	1032.00	W 43rd St.
1	Type 1	9616+00.00	Left	18.0	1.8	18.0	4.0	4.0	10.0	1.3	1032.00	W 43rd St.
1	Type 1	9617+00.00	Left	18.0	1.8	18.0	4.0	4.0	10.0	1.3	1032.00	5th Ave. W
1	Type 1	9618+00.00	Left	18.0	1.8	18.0	4.0	4.0	10.0	1.3	1032.00	5th Ave. W
1	Type 1	9619+00.00	Left	18.0	1.8	18.0	4.0	4.0	10.0	1.3	1032.00	5th Ave. W
1	Type 1	9620+00.00	Left	18.0	1.8	18.0	4.0	4.0	10.0	1.3	1032.00	5th Ave. W
1	Type 1	9621+00.00	Left	18.0	1.8	18.0	4.0	4.0	10.0	1.3	1032.00	5th Ave. W
1	Type 1	9622+00.00	Left	18.0	1.8	18.0	4.0	4.0	10.0	1.3	1032.00	5th Ave. W
1	Type 1	9623+00.00	Left	18.0	1.8	18.0	4.0	4.0	10.0	1.3	1032.00	5th Ave. W
1	Type 1	9624+00.00	Left	18.0	1.8	18.0	4.0	4.0	10.0	1.3	1032.00	5th Ave. W
1	Type 1	9625+00.00	Left	18.0	1.8	18.0	4.0	4.0	10.0	1.3	1032.00	5th Ave. W
1	Type 1	9626+00.00	Left	18.0	1.8	18.0	4.0	4.0	10.0	1.3	1032.00	5th Ave. W
1	Type 1	9614+00.00	Right	18.0	1.8	18.0	4.0	4.0	10.0	1.0	1599.60	W 43rd St.
1	Type 1	9615+55.00	Right	18.0	1.8	18.0	4.0	4.0	10.0	1.0	1599.60	W 43rd St.
1	Type 1	9617+54.00	Right	18.0	1.8	18.0	4.0	4.0	10.0	1.0	1599.60	5th Ave. W
1	Type 1	9619+14.00	Right	18.0	1.8	18.0	4.0	4.0	10.0	1.0	1599.60	5th Ave. W
1	Type 1	9620+74.00	Right	18.0	1.8	18.0	4.0	4.0	10.0	1.0	1599.60	5th Ave. W
1	Type 1	9622+34.00	Right	18.0	1.8	18.0	4.0	4.0	10.0	1.0	1599.60	5th Ave. W
1	Type 1	9623+94.00	Right	18.0	1.8	18.0	4.0	4.0	10.0	1.0	1599.60	5th Ave. W
1	Type 1	9625+64.00	Right	18.0	1.8	18.0	4.0	4.0	10.0	1.0	1599.60	5th Ave. W
1	Type 1	2627+19.00	Right	18.0	1.8	18.0	4.0	4.0	10.0	1.0	1599.60	US 18 EB
2	Type 1	2628+23.00	Right	18.0	1.8	18.0	4.0	4.0	10.0	1.0	1599.60	US 18 EB
2	Type 1	2629+23.00	Right	18.0	1.8	18.0	4.0	4.0	10.0	1.0	1599.60	US 18 EB
2	Type 1	2630+33.00	Right	18.0	1.8	18.0	4.0	4.0	10.0	1.0	1599.60	US 18 EB
2	Type 1	2631+43.00	Right	18.0	1.8	18.0	4.0	4.0	10.0	1.0	1599.60	US 18 EB
2	Type 1	2632+53.00	Right	18.0	1.8	18.0	4.0	4.0	10.0	1.0	1599.60	US 18 EB
2	Type 1	2633+06.00	Right	18.0	1.8	18.0	4.0	4.0	10.0	1.0	1599.60	US 18 EB
2	Type 1	5055+48.00	Left	18.0	1.8	18.0	4.0	4.0	10.0	1.0	1599.60	US 71 SB
3	Type 1	3631+00.00	Left	18.0	1.8	18.0	4.0	4.0	10.0	0.7	1599.60	US 18 WB
3	Type 1	5059+00.00	Left	18.0	1.8	18.0	4.0	4.0	10.0	0.3	3250.80	US 71 SB
3	Type 1	5061+40.00	Left	18.0	1.8	18.0	4.0	4.0	10.0	0.3	3250.80	US 71 SB
3	Type 1	5059+60.00	Median	18.0	1.8	18.0	4.0	4.0	10.0	2.1	619.20	US 71 SB
3	Type 1	5060+20.00	Median	18.0	1.8	18.0	4.0	4.0	10.0	2.1	619.20	US 71 SB
3	Type 1	5060+80.00	Median	18.0	1.8	18.0	4.0	4.0	10.0	2.1	619.20	US 71 SB
3	Type 1	5061+45.00	Median	18.0	1.8	18.0	4.0	4.0	10.0	0.8	1599.60	US 71 SB
3	Type 1	5062+60.00	Median	18.0	1.8	18.0	4.0	4.0	10.0	0.8	1599.60	US 71 SB
3	Type 1	5063+65.00	Median	18.0	1.8	18.0	4.0	4.0	10.0	0.8	1599.60	US 71 SB
3	Type 1	5064+70.00	Median	18.0	1.8	18.0	4.0	4.0	10.0	0.8	1599.60	US 71 SB
3	Type 1	5065+75.00	Median	18.0	1.8	18.0	4.0	4.0	10.0	0.8	1599.60	US 71 SB
3	Type 1	5066+80.00	Median	18.0	1.8	18.0	4.0	4.0	10.0	0.8	1599.60	US 71 SB
3	Type 1	5067+85.00	Median	18.0	1.8	18.0	4.0	4.0	10.0	0.8	1599.60	US 71 SB
3	Type 1	4057+60.00	Right	18.0	1.8	18.0	4.0	4.0	10.0	0.2	3250.80	US 71 NB
3	Type 1	4060+64.00	Right	18.0	1.8	18.0	4.0	4.0	10.0	0.2	3250.80	US 71 NB
3	Type 1	4063+00.00	Right	18.0	1.8	18.0	4.0	4.0	10.0	0.2	3250.80	US 71 NB
3	Type 1	7158+00.00	Left	18.0	1.8	18.0	4.0	4.0	10.0	1.1	1032.00	320th St. WB

SILT FENCES FOR DITCH CHECKS

Possible Standard: EC-201



Cross Section View



Longitudinal Profile View

* The functional height used in the volume equation is 85% of effective height. Effective height is 1.58 feet as shown on EC-201.
* Volume equation: [0.5*Spacing*(0.5*H^2*FS+DW*H+0.5*H^2*BS)]

Basin No.	Type	Station	Side	Installation (LF)	Maintenance (LF)	Removal (LF)	Foreslope (FS:1)	Backslope (BS:1)	Ditch Width (FT)	Avg. % Slope Ditch Grade	Volume (CF)	Remarks
3	Type 1	7159+00.00	Left	18.0	1.8	18.0	4.0	4.0	10.0	1.1	1032.00	320th St. WB
3	Type 1	7160+00.00	Left	18.0	1.8	18.0	4.0	4.0	10.0	1.1	1032.00	320th St. WB
4	Type 1	7162+00.00	Left	18.0	1.8	18.0	4.0	4.0	10.0	1.1	1032.00	320th St. WB
4	Type 1	7163+00.00	Left	18.0	1.8	18.0	4.0	4.0	10.0	1.1	1032.00	320th St. WB
4	Type 1	7165+55.00	Left	18.0	1.8	18.0	4.0	4.0	10.0	1.1	1032.00	320th St. WB
Total:				**900**	**90**	**900**						

PERIMETER AND SLOPE SEDIMENT CONTROL DEVICE

Possible Standards: EC-204

Station From	Station To	Side	Sediment Control Device Type	Diameter Size	Length (LF)	Remarks
5062+23.00		Median	Perimeter and Slope	12 inch	40.00	US 71 SB Inlet Protection
5062+48.00		Left	Perimeter and Slope	12 inch	40.00	US 71 SB Inlet Protection
7163+54.00		Left	Perimeter and Slope	12 inch	40.00	320th St. WB Inlet Protection
19592+50.00		Right	Perimeter and Slope	12 inch	50.00	4th Ave. W Inlet Protection
9612+17.00		Right	Perimeter and Slope	12 inch	40.00	W 43rd St Inlet Protection
9615+87.00		Right	Perimeter and Slope	12 inch	40.00	W 43rd St Inlet Protection
9625+97.00		Right	Perimeter and Slope	12 inch	40.00	5th Ave. W Inlet Protection
5040+50.00		Left	Ditch Check	12 inch	30.00	US 71 SB
5041+42.00		Left	Ditch Check	12 inch	30.00	US 71 SB
5042+34.00		Left	Ditch Check	12 inch	30.00	US 71 SB
5043+26.00		Left	Ditch Check	12 inch	30.00	US 71 SB
5044+18.00		Left	Ditch Check	12 inch	30.00	US 71 SB
5045+10.00		Left	Ditch Check	12 inch	30.00	US 71 SB
5046+02.00		Left	Ditch Check	12 inch	30.00	US 71 SB
5046+94.00		Left	Ditch Check	12 inch	30.00	US 71 SB
5047+86.00		Left	Ditch Check	12 inch	30.00	US 71 SB
5048+78.00		Left	Ditch Check	12 inch	30.00	US 71 SB
5049+70.00		Left	Ditch Check	12 inch	30.00	US 71 SB
5050+62.00		Left	Ditch Check	12 inch	30.00	US 71 SB
5051+54.00		Left	Ditch Check	12 inch	30.00	US 71 SB
5052+46.00		Left	Ditch Check	12 inch	30.00	US 71 SB
5053+38.00		Left	Ditch Check	12 inch	30.00	US 71 SB
Total:					**740**	

ROCK EROSION CONTROL

Refer to EC-301 and Detail 570-8

Road Identification	Station From	Station To	Side	Length (FT)	Width (FT)	Rock Erosion Control Type	Engineering Fabric (SY)	Class E Revetment (TON)	Erosion Stone (TON)	Remarks
US 18 WB	3632+50.00		Left	9.00	9.0	Type 4 - Rock Splash Basin	18.8		9.600	
320th St.WB	7157+54.00		Left	9.00	9.0	Type 4 - Rock Splash Basin	18.8		9.600	
320th St.WB	7158+46.00		Left	9.00	9.0	Type 4 - Rock Splash Basin	18.8		9.600	
320th St.EB	7164+36.00		Left	10.50	10.5	Type 4 - Rock Splash Basin	23.4		13.100	
US 71 SB	5058+32.00		Left	9.00	9.0	Type 4 - Rock Splash Basin	18.8		9.600	
US 71 SB	5058+52.00		Left	9.00	9.0	Type 4 - Rock Splash Basin	18.8		9.600	
US 71 SB	5059+50.00		Left	9.00	9.0	Type 4 - Rock Splash Basin	18.8		9.600	
US 71 SB	5062+47.00		Right	13.00	13.0	Type 4 - Rock Splash Basin	32.2		20.100	
US 71 NB	4058+55.00		Right	9.00	9.0	Type 4 - Rock Splash Basin	18.8		9.600	
US 71 NB	4062+42.00		Right	13.00	13.0	Type 4 - Rock Splash Basin	32.2		20.100	
W 37th St.	20076+81.00		Right	9.00	9.0	Type 4 - Rock Splash Basin	18.8		9.600	
W 43th St.	9612+16.00		Left	10.50	10.5	Type 4 - Rock Splash Basin	23.4		13.100	
W 43th St.	9615+66.00		Left	10.50	10.5	Type 4 - Rock Splash Basin	23.4		13.100	
5TH Ave. W	9625+96.00		Left	10.50	10.5	Type 4 - Rock Splash Basin	23.4		13.100	
Total:							**308.4**		**169.4**	

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GRATE INTAKE SEDIMENT FILTER BAG

Possible Standard Road Plan : EC-604

Location Station	Side	Installation (Each)	Maintenance (Each)	Removal (Each)	Remarks
2632+13.00	Right	1.0	1	1.0	US 18 EB
2632+73.00	Right	1.0	1	1.0	US 18 EB
2633+60.00	Right	1.0	1	1.0	US 18 EB
2634+07.00	Left	1.0	1	1.0	US 18 EB - On circle
3632+50.00	Left	1.0	1	1.0	US 18 WB
3633+60.00	Left	1.0	1	1.0	US 18 WB
3634+38.00	Right	1.0	1	1.0	US 18 WB - On circle
6156+97.00	Left	1.0	1	1.0	320th St. EB - On Circle
6157+25.00	Left	1.0	1	1.0	320th St. EB
6157+60.00	Left	1.0	1	1.0	320th St. EB
6157+96.00	Right	1.0	1	1.0	320th St. EB
7157+55.00	Left	1.0	1	1.0	320th St. WB
7158+45.00	Left	1.0	1	1.0	320th St. WB
4054+55.00	Right	1.0	1	1.0	US 71 NB
4055+14.00	Right	1.0	1	1.0	US 71 NB
4055+52.00	Right	1.0	1	1.0	US 71 NB
4055+96.00	Right	1.0	1	1.0	US 71 NB
4056+28.00	Left	1.0	1	1.0	US 71 NB - On Circle
4057+86.00	Left	1.0	1	1.0	US 71 NB - On Circle
4058+04.00	Right	1.0	1	1.0	US 71 NB
4058+53.00	Right	1.0	1	1.0	US 71 NB
5055+05.00	Left	1.0	1	1.0	US 71 SB
5055+37.00	Left	1.0	1	1.0	US 71 SB
5055+75.00	Left	1.0	1	1.0	US 71 SB
5055+75.00	Right	1.0	1	1.0	US 71 SB
5056+00.00	Left	1.0	1	1.0	US 71 SB
5056+00.00	Right	1.0	1	1.0	US 71 SB
5056+22.00	Left	1.0	1	1.0	US 71 SB
5056+35.00	Right	1.0	1	1.0	US 71 SB - On Circle
5056+56.00	Right	1.0	1	1.0	US 71 SB - On Circle
5058+17.00	Left	1.0	1	1.0	US 71 SB
5058+52.00	Left	1.0	1	1.0	US 71 SB
5059+48.00	Left	1.0	1	1.0	US 71 SB
Total:		**33**	**33**	**33**	

STORMWATER DRAINAGE BASIN

Refer to EC Standards and 570s Details.

Basin No.	Station From	Station To	Side	Discharge Station	Discharge Direction	Total Disturbed Area (ACRES)	Disturbed Area with Storage Provided (ACRES)	Disturbed Area without Storage Provided (ACRES)	Best Management Practice	Total Storage Volume Provided (CF)	Total Storage Volume Required (CF)	Storage Volume Met	Remarks
1	19609+36.00	9626+56.00	L/R	9615+70.00		3.9	3.9		Silt Fence for Ditch Check (EC-201)	26780.00	14040.0	Yes	
2	3628+13.00	5039+83.00	L/R/M	5039+83.00		3.4	3.4		Silt Fence for Ditch Check (EC-201)	11197.00	12240.0	No	
3	3029+16.00	5068+11.00	L/R/M	4062+44.00		5.7	5.7		Silt Fence for Ditch Check (EC-201)	34004.00	20520.0	Yes	
4	7161+18.00	7165+61.00	Left	7165+61.00		0.5	0.5		Silt Fence for Ditch Check (EC-201)	3096.00	1800.0	Yes	
5	4051+47.00	6164+37.00	R/M	6164+37.00		2.7	2.7				9720.0	No	
6	20078+56.00	9612+09.00	L/R	19591+25.00		2.4	2.4				8640.0	No	

POLLUTION PREVENTION PLAN

This project is regulated by the requirements of the Iowa Department of Natural Resources (DNR) National Pollutant Discharge Elimination System (NPDES) General Permit No. 2 OR an Iowa Department of Natural Resources (DNR) National Pollutant Discharge Elimination System (NPDES) individual storm water permit. The Contractor shall carry out the terms and conditions of this permit and the Pollution Prevention Plan (PPP).

This Base PPP includes information on Roles and Responsibilities, Project Site Description, Controls, Maintenance Procedures, Inspection Requirements, Non-Storm Water Controls, Potential Sources of Off Right-of-Way Pollution, and Definitions. This plan references other documents rather than repeating the information contained in the documents. A copy of this Base Pollution Prevention Plan, amended as needed during construction, will be readily available for review.

All contractors shall conduct their operations in a manner that controls pollutants, minimizes erosion, and prevents sediments from entering waters of the state and leaving the highway right-of-way. The Contractor shall be responsible for compliance and implementation of the PPP for their entire contract. This responsibility shall be further shared with subcontractors whose work is a source of potential pollution as defined in this PPP.

I. ROLES AND RESPONSIBILITES

A. Designer:
1. Prepares Base PPP included in the project plan.
2. Prepares Notice of Intent (NOI) submitted to Iowa DNR.
3. Is signature authority on the Base PPP. If consultant designed, signature from Contracting Authority is also required.

B. Contractor:
1. Signs a co-permittee certification statement adhering to the requirements of the NPDES permit and this PPP. All co-permittees are legally required under the Clean Water Act and the Iowa Administrative Code to ensure compliance with the terms and conditions of this PPP.
2. Designates a Water Pollution Control Manager (WPCM), who has the duties and responsibilities as defined in Section 2602 of the Standard Specifications.
3. Submits an Erosion Control Implementation Plan (ECIP) and ECIP updates according to Section 2602 of the Standard Specifications.
4. Installs and maintains appropriate controls. This work may be subcontracted as documented through Subcontractor Request Forms (Form 830231).
5. Supervises and implements good housekeeping practices according to Paragraph III, C, 2.
6. Conducts joint required inspections of the site with inspection staff. When Contractor is not mobilized on site, Contractor may delegate this responsibility to a trained or certified subcontractor. Contracting Authority also may waive joint inspection requirement during winter shutdown. In both circumstances, WPCM (or trained or certified delegate from the Contractor) is still responsible to review and sign inspection reports.
7. Complies with training and certification requirements of Section 2602 of the Standard Specifications.
8. Submits amended PPP site map according to Section 2602 of the Standard Specifications.

C. Subcontractors:
1. Sign a co-permittee certification statement adhering to the requirements of the NPDES permit and this PPP if: responsible for sediment or erosion controls; involved in land disturbing activities; or perorming work that is a source of potential pollution as defined in this PPP. Subcontracted work items are identified in Subcontractor Request Forms (Form 830231). All co-permittees are legally required under the Clean Water Act and the Iowa Administrative Code to ensure compliance with the terms and conditions of this PPP.
2. Implement good housekeeping practices according to Paragraph III, C, 2.

D. RCE/Project Engineer:
1. Is Project Storm Water Manager.
2. On projects where DOT is the Contracting Authority, is current with erosion control training or certification.
3. Takes actions necessary to ensure compliance with storm water requirements including, where appropriate, issuing stop work orders, and directing additional inspections at construction project sites that are experiencing problems with achieving permit compliance.
4. Orders the taking of measures to cease, correct, prevent, or minimize the consequences of non-compliance with the storm water requirements of the Applicable Permit.
5. Supervises all work necessary to meet storm water requirements at the Project, including work performed by contractors and subcontractors.
6. Requires employees, contractors, and subcontractors to take appropriate responsive action to comply with storm water requirements, including requiring any such person to cease or correct a violation of storm water requirements, and to order or recommend such other actions as necessary to meet storm water requirements.
7. Is familiar with the Project PPP and storm water site map.
8. On projects where DOT is Contracting Authority, is responsible for periodically monitoring inspection reports to determine whether deficiencies identified in inspection reports were adequately and timely addressed, and if not, has the authority and responsibility to direct immediate actions to correct the deficiencies.
9. Is the point of contact for the Project for regulatory officials, Inspector, contractors, and subcontractors regarding storm water requirements.
10. Is signature authority on Notice of Discontinuation.
11. Maintains an up-to-date record of contractors, subcontractors, and subcontracted work items through Subcontractor Request Forms (Form 830231).
12. Makes information to determine permit compliance available to the DNR upon their request.

110_12
1/13/23

POLLUTION PREVENTION PLAN

E. Inspector:
1. Updates PPP through fieldbook entries and storm water site inspection reports if there is a change in design, construction, operation, or maintenance which has a significant effect on the discharge of pollutants from the project.
2. Makes information to determine permit compliance available to the DNR upon their request.
3. Conducts joint required inspections of the site with the contractor/subcontractor.
4. Completes an inspection report after each inspection.
5. Is signature authority on storm water inspection reports.

II. PROJECT SITE DESCRIPTION

A. This Pollution Prevention Plan (PPP) is for PCC Pavement - Grade and New in Clay County.

B. This PPP covers approximately 30.7 acres with an estimated 7.1 acres being disturbed. The portion of the PPP covered by this contract has 7.1 acres disturbed.

C. The PPP is located in an area of Galva - Primghar and Marna - Kossuth - Bode soil associations. The estimated weighted average runoff coefficient number for this PPP after completion will be 0.57.

D. Storm Water Site Map is located in the R sheets. Proposed slopes are shown in cross sections, details, or standard road plans. Supplemental information is located in the Tabulations in the C or CE sheets.

E. The base storm water site map is amended by contract modifications and progress payments (fieldbook entries) of completed erosion control work. Also, due to project phasing, erosion and sediment controls shown on project plans may not be installed until needed, based on site conditions. For example, silt fence ditch checks will typically not be installed until the ditch has been installed. Installed locations may also be modified from tabulation locations by field staff. Installed locations will be documented by fieldbook entries and amended PPP site map.

F. Runoff from this work will flow into the Little Sioux River.

III. CONTROLS

A. The Contractor’s ECIP specified in Article 2602.03 of the Standard Specifications for accomplishment of storm water controls should clearly describe the intended sequence of major activities, and for each activity define the control measure and the timing during the construction process that the measure will be implemented.

B. Preserve vegetation in areas not needed for construction.

C. Sections 2601 and 2602 of the Standard Specifications define requirements to implement erosion and sediment control measures. Actual quantities used and installed locations may vary from the Base PPP and amendment of the plan will be documented via fieldbook entries, amended PPP site map, or by contract modification. Additional erosion and sediment control items may be required as determined by the inspector and/or contractor during storm water site inspections. If the work involved is not applicable to any contract items, the work will be paid for according to Article 1109.03 paragraph B of the Standard Specifications.

1. EROSION AND SEDIMENT CONTROLS

a. Stabilization Practices
1) Site plans will ensure that existing vegetation or natural buffers are preserved where attainable and disturbed portions of the site will be stabilized.
2) Initialize stabilization of disturbed areas immediately after clearing, grading, excavating, or other earth disturbing activities have:
a) Permanently ceased on any portion of the site, or
b) Temporarily ceased on any portion of the site and will not resume for a period exceeding 14 calendar days.
3) Staged permanent and/or temporary stabilizing seeding and mulching shall be completed as the disturbed areas are completed. Incomplete areas shall be stabilized according to paragraph III, C, 1, a, 2, b above.
4) Permanent and Temporary Stabilization practices to be used for this project are located in the storm water site map, Estimated Project Quantities (100-0A, 100-1A, or 100-1C), and Estimate Reference Information (100-4A) located in the C or R sheets. Typical drawings detailing construction of the practices to be used on this project are referenced in the Standard Road Plans Tabulation (105-4) in the C or R sheets.
5) Preservation of existing vegetation within right-of-way or easements will act as vegetative buffer strips.
6) Preservation of topsoil: Bid items to be used for this project are located in the Estimated Project Quantities (100-0A, 100-1A, or 100-1C) and Estimate Reference Information (100-4A) located in the C or R sheets. Additional information may be found in the Tabulations in the C or T Tabulation sheets, or is referenced in Section 2105 of the Standard Specifications.

b. Structural Practices
1) Structural practices will be implemented to divert flows from exposed soils and detain or otherwise limit runoff and the discharge of pollutants from exposed areas of the site. Additionally, structural practices may include: silt basins that provide 3600 cubic feet of storage per acre drained or equivalent sediment controls, outlet structures that withdraw water from surface when discharging basins, and controls to direct storm water to vegetated areas.
2) Structural practices to be used for this project are located in the storm water site map, Estimated Project Quantities (100-0A, 100-1A, or 100-1C), and Estimate Reference Information (100-4A) located in the C or R sheets, as well as all other item specific Tabulations. Typical drawings detailing construction of the devices to be used on this project can be found on the B or R sheets or are referenced in the Standard Road Plans Tabulation (105-4) located in the C or R sheets.

POLLUTION PREVENTION PLAN

c. Storm Water Management
Measures shall be installed during the construction process to control pollutants in storm water discharges that will occur after construction operations have been completed. This may include velocity dissipation devices at discharge locations and along length of outfall channel as necessary to provide a non-erosion velocity flow from structure to water course. If included with this project, these items are located in the storm water site map and Estimated Project Quantities (100-0A, 100-1A, or 100-1C) and Estimate Reference Information (100-4A) located in the C or R sheets, as well as all other item specific Tabulations. Typical drawings detailing construction of the practices to be used on this project are referenced in the Standard Road Plans Tabulation. The installation of these devices may be subject to Section 404 of the Clean Water Act.

2. OTHER CONTROLS
Contractor disposal of unused construction materials and construction material wastes shall comply with applicable state and local waste disposal, sanitary sewer, or septic system regulations. In the event of a conflict with other governmental laws, rules and regulations, the more restrictive laws, rules or regulations shall apply.

a. Vehicle Entrances and Exits - Construct and maintain entrances and exits to prevent tracking of sediments onto roadways.
b. Material Delivery, Storage and Use - Implement practices to prevent discharge of construction materials during delivery, storage, and use.
c. Stockpile Management - Install controls to reduce or eliminate pollution of storm water from stockpiles of soil and paving.
d. Waste Disposal - Do not discharge any materials, including building materials, into waters of the state, except as authorized by a Section 404 permit.
e. Spill Prevention and Control - Implement chemical spill and leak prevention and response procedures to contain and clean up spills and prevent material discharges to the storm drain system and waters of the state.
f. Concrete Residuals and Washout Wastes - Waste shall not be discharged to a surface water and is not allowed to adversely affect a water of the state. Designate temporary concrete washout facilities for rinsing out concrete trucks. Provide directions to truck drivers where designated washout facilities are located. Designated washout areas should be located at least 50 feet away from storm drains, streams or other water bodies. Care should be taken to ensure these facilities do not overflow during storm events.
g. Concrete Grooving/Grinding Slurry – Do not discharge slurry to a waterbody or storm drain. Slurry may be applied on foreslopes or removed from the project.
h. Vehicle and Equipment Storage and Maintenance Areas - Perform on site fueling and maintenance in accordance with all environment laws such as proper storage of onsite fuels and proper disposal of used engine oil or other fluids on site. Employ washing practices that prevent contamination of surface and ground water from wash water. Wash waters must be treated in a sediment basin or alternative control that provides equivalent or better treatment prior to discharge.
i. Litter Management - Ensure employees properly dispose of litter. Minimize exposure of trash if exposure to precipitation or storm water would result in a discharge of pollutants.
j. Dewatering – Properly treat water to remove suspended sediment before it re-enters a waterbody or discharges off-site. Measures are also to be taken to prevent scour erosion at dewatering discharge point.

3. APPROVED STATE OR LOCAL PLANS
During the course of this construction, it is possible that situations will arise where unknown materials will be encountered. When such situations are encountered, they will be handled according to all federal, state, and local regulations in effect at the time.

IV. MAINTENANCE PROCEDURES
The Contractor is required to maintain all temporary erosion and sediment control measures in proper working order, including cleaning, repairing, or replacing them throughout the contract period. This shall begin when the features have lost 50% of their capacity.

V. INSPECTION REQUIREMENTS
A. Inspections shall be made jointly by the Contractor and the Contracting Authority's inspector at least once every seven calendar days. Storm water site inspections will include:
1. Date of the inspection.
2. Summary of the scope of the inspection.
3. Name and qualifications of the personnel making the inspection.
5. Review of erosion and sediment control measures within disturbed areas for the effectiveness in preventing impacts to receiving waters.
6. Major observations related to the implementation of the PPP.
7. Identification of corrective actions required to maintain or modify erosion and sediment control measures.

B. Include storm water site inspection reports in the Amended PPP. Incorporate any additional erosion and sediment control measures determined as a result of the inspection. Immediately begin corrective actions on all deficiencies found within 3 calendar days of the inspection and complete within 7 calendar days following the inspection. If it is determined that making the corrections less than 72 hours after the inspection is impracticable, it should be documented why it is impracticable and indicate an estimated date by which the corrections will be made.

VI. NON-STORM WATER DISCHARGES

110_12
1/13/23

POLLUTION PREVENTION PLAN

This includes subsurface drains (i.e. longitudinal and standard subdrains) and slope drains. The velocity of the discharge from these features may be controlled by the use of headwalls or blocks, Class A stone, erosion stone or other appropriate materials. This also includes uncontaminated groundwater from dewatering operations, which will be controlled as discussed in Section III of the PPP.

VII. POTENTIAL SOURCES OF OFF RIGHT-OF-WAY (ROW) POLLUTION
Silts, sediment, and other forms of pollution may be transported onto highway right-of-way (ROW) as a result of a storm event. Potential sources of pollution located outside highway ROW are beyond the control of this PPP. Pollution within highway ROW will be conveyed and controlled per this PPP.

VIII. DEFINITIONS
A. Base PPP - Initial Pollution Prevention Plan.
B. Amended PPP - Base PPP amended during construction. May include Plan Revisions or Contract Modifications for new items, storm water site inspection reports, fieldbook entries made by the inspector, amended PPP site map by the Contractor, ECIP, NOI, co-permittee certifications, and Subcontractor Request Forms. Items amending the PPP are stored electronically and are readily available upon request.
C. Fieldbook Entries – This contains the inspector’s daily diary and bid item postings.
D. Controls - Methods, practices, or measures to minimize or prevent erosion, control sedimentation, control storm water, or minimize contaminants from other types of waste or materials. Also called Best Management Practices (BMPs).
E. Signature Authority - Representative authorized to sign various storm water documents.

CERTIFICATION STATEMENT

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Nathan Pohlen
Signature

Nathan J. Pohlen
Print Name

LINE STYLE LEGEND OF LANDSCAPE SHEETS

LINESTYLE	Design Element
– – – – – – – – – – – –	Living Snow Fence Single Row
⁝⁝⁝⁝⁝⁝⁝⁝⁝⁝⁝⁝⁝⁝⁝⁝⁝⁝	Living Snow Fence Double Row
———	Mechanical Edge

CELL LEGEND OF LANDSCAPE SHEETS

CELL	Design Element	Plant Diameter
	Clearing	
	Proposed Shrub	6 FT
	Proposed Understory Tree	12 FT
	Proposed Conifer Tree	18 FT
	Proposed Overstory Tree	30 FT

PATTERN LEGEND OF LANDSCAPE SHEETS

Brush Clearing

Spray Area

Clearing & Grubbing

LINE STYLE LEGEND OF EROSION CONTROL SHEETS

LINESTYLE	Design Element
	Silt Fence
9	Perimeter and Slope Sediment Control Device (9")
12	Perimeter and Slope Sediment Control Device (12")
20	Perimeter and Slope Sediment Control Device (20")
	Open-Throat Curb Intake Sediment Filter
	Concentrated Flow
	Rock Check and Rock Check Dam
	Sheet Flow

CELL LEGEND OF EROSION CONTROL SHEETS

CELL	Design Element
	Temporary Sediment Control basin
	Erosion Control for Circular Intake or Manhole Well
	Erosion Control for Rectangular Intake or Manhole Well
	Grate Intake Sediment Filter Bag
	Silt Basin
	Silt Fence Tail
	Stormwater Drainage Basin Discharge Point

PLAN VIEW COLOR LEGEND OF EROSION CONTROL SHEETS

LINEWORK	Design Color No.	
Green	(2)	Existing Topographic Features and Labels
Blue	(1)	Proposed Alignment, Stationing, Tic Marks, and Alignment Annotation
Magenta	(5)	Existing Utilities
Black	(0)	Permanent Erosion Control Features
Blaze Orange	(222)	Temporary Erosion Control Features

SHADING	Design Color No.		Transparency
Citron	(234)	Mulching, All Types	50%
Light Brown	(238)	Special Ditch Control, Wood Excelsior Mat	0%
Grass Green	(233)	8FT Mow Strip	50%
Red	(3)	Delineates Restricted Areas	0%

PATTERN LEGEND OF EROSION CONTROL SHEETS

Seeding and Fertilizing

R — Seeding and Fertilizing (Rural)

U — Seeding and Fertilizing (Urban)

N — Native Grass Seeding

ST — Salt Tolerant Seeding

WL — Wetland Grass Seeding

WF — Wildflower Seeding

SOD — Sodding

Turf Reinforcement Mat Type 1

Turf Reinforcement Mat Type 2

Turf Reinforcement Mat Type 3

Turf Reinforcement Mat Type 4

Slope Protection, Wood Excelsior Mat

Transition Mat

Rock Features, Permanent

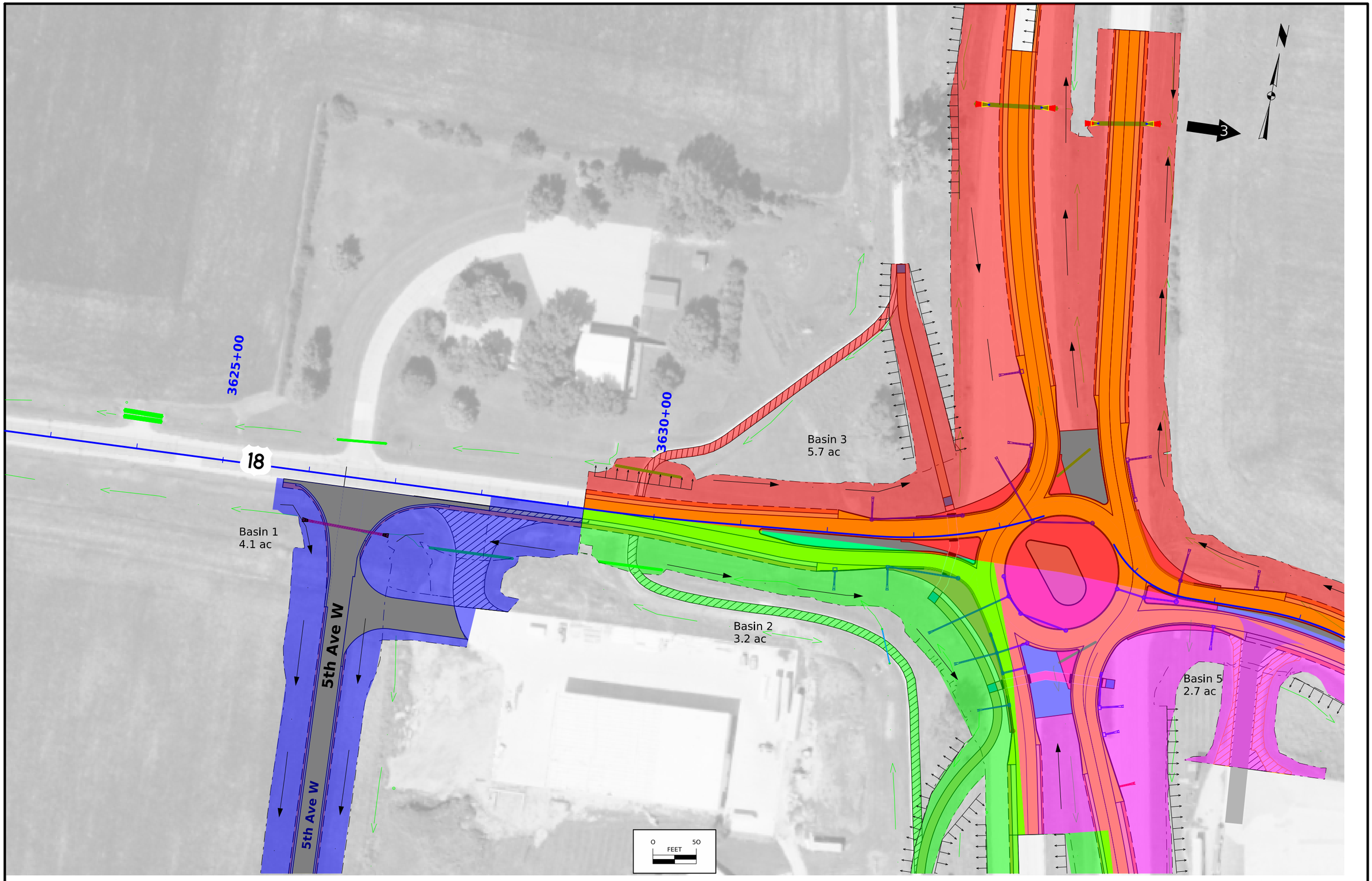
Rock Features, Temporary

LEGEND AND SYMBOL INFORMATION SHEET

(COVERS SHEET SERIES D & R)

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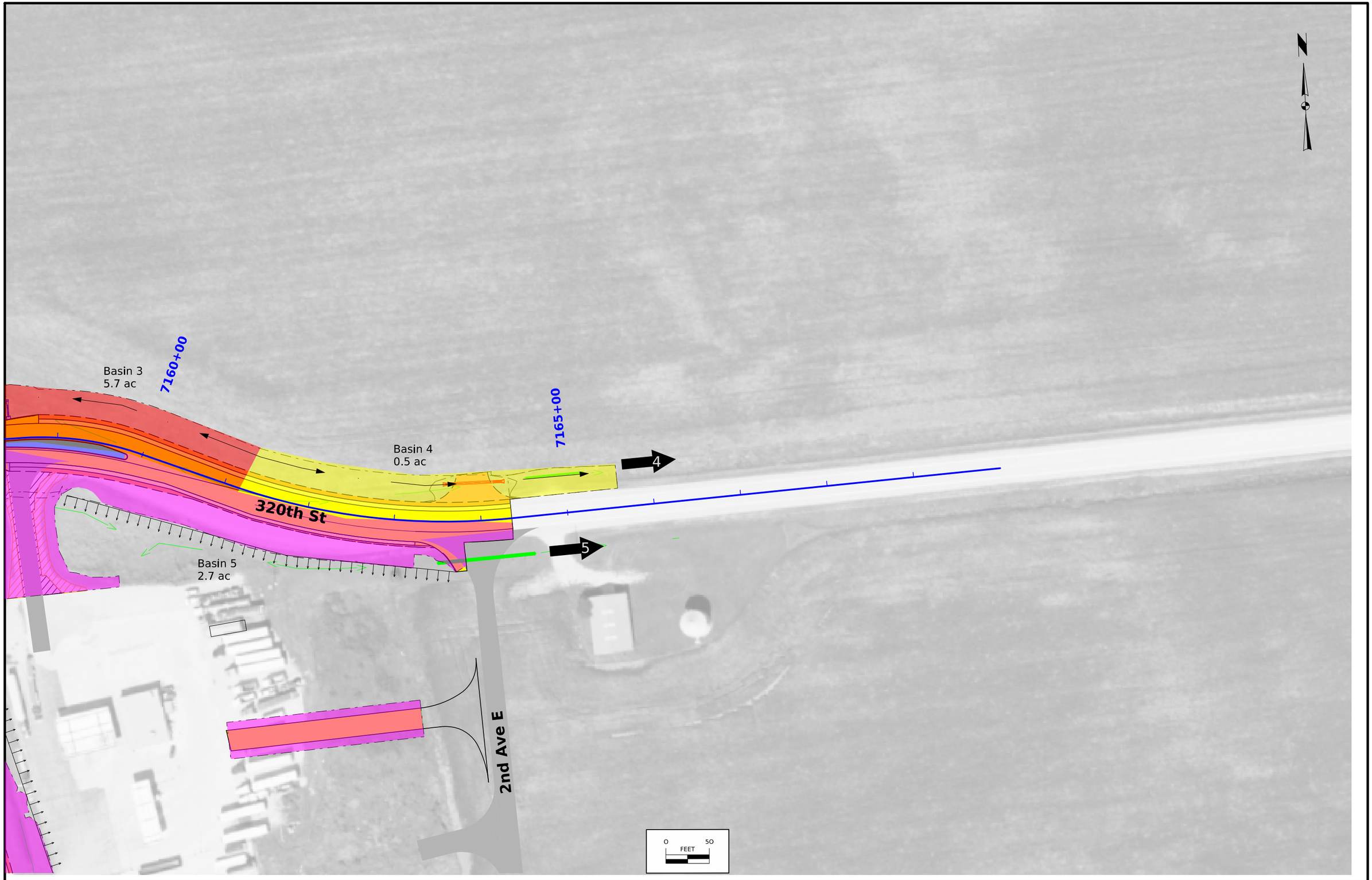
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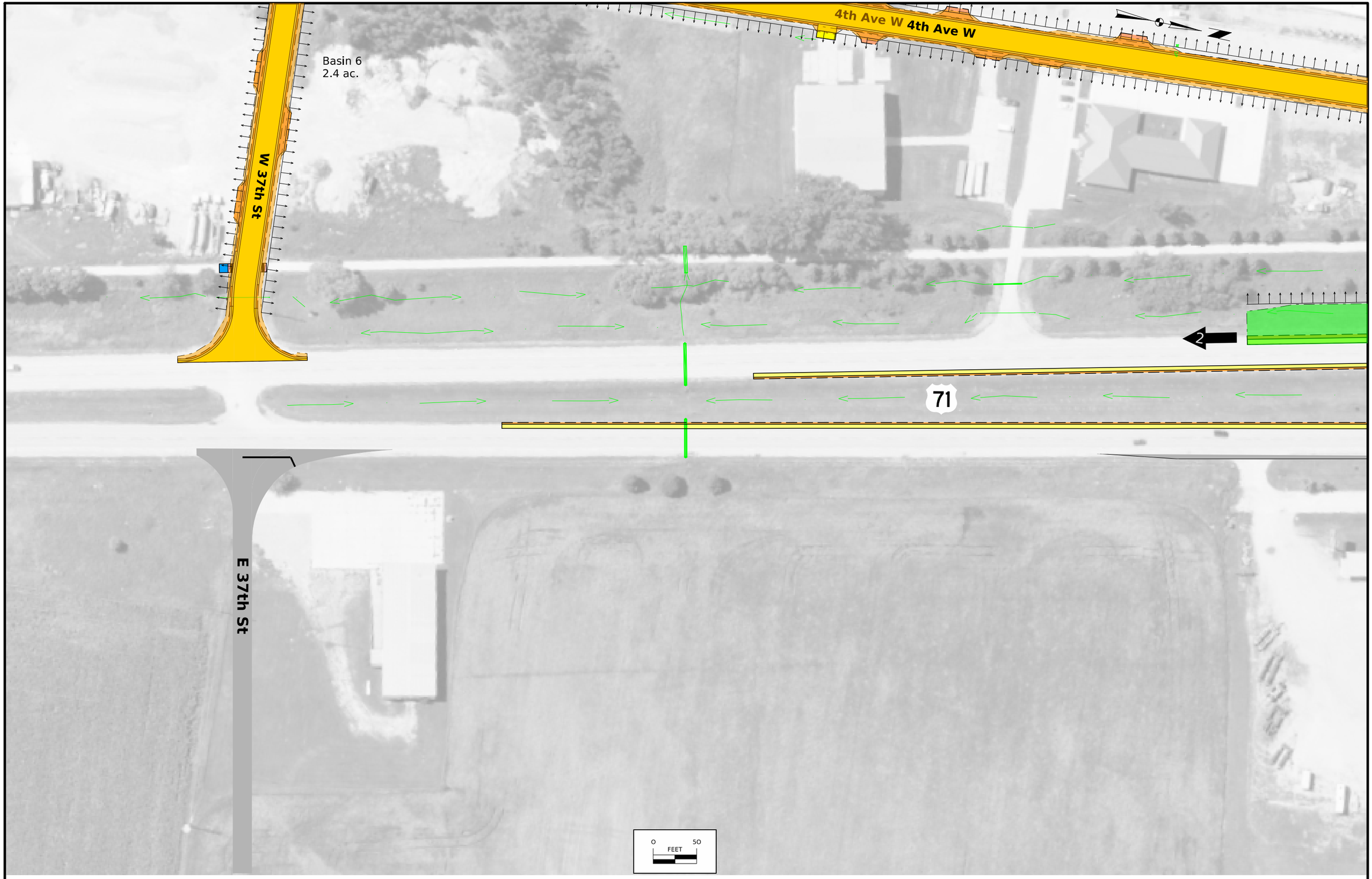
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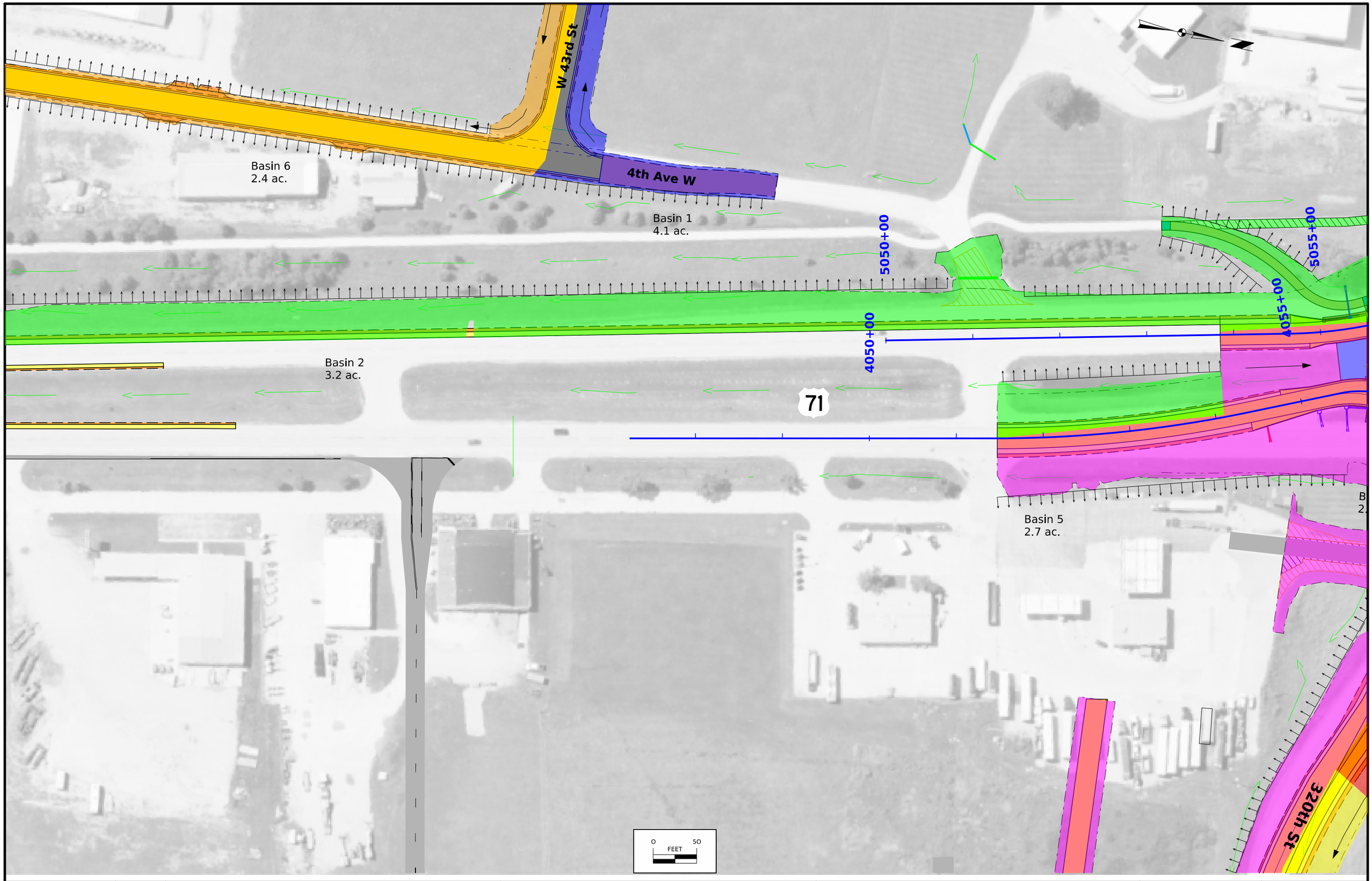
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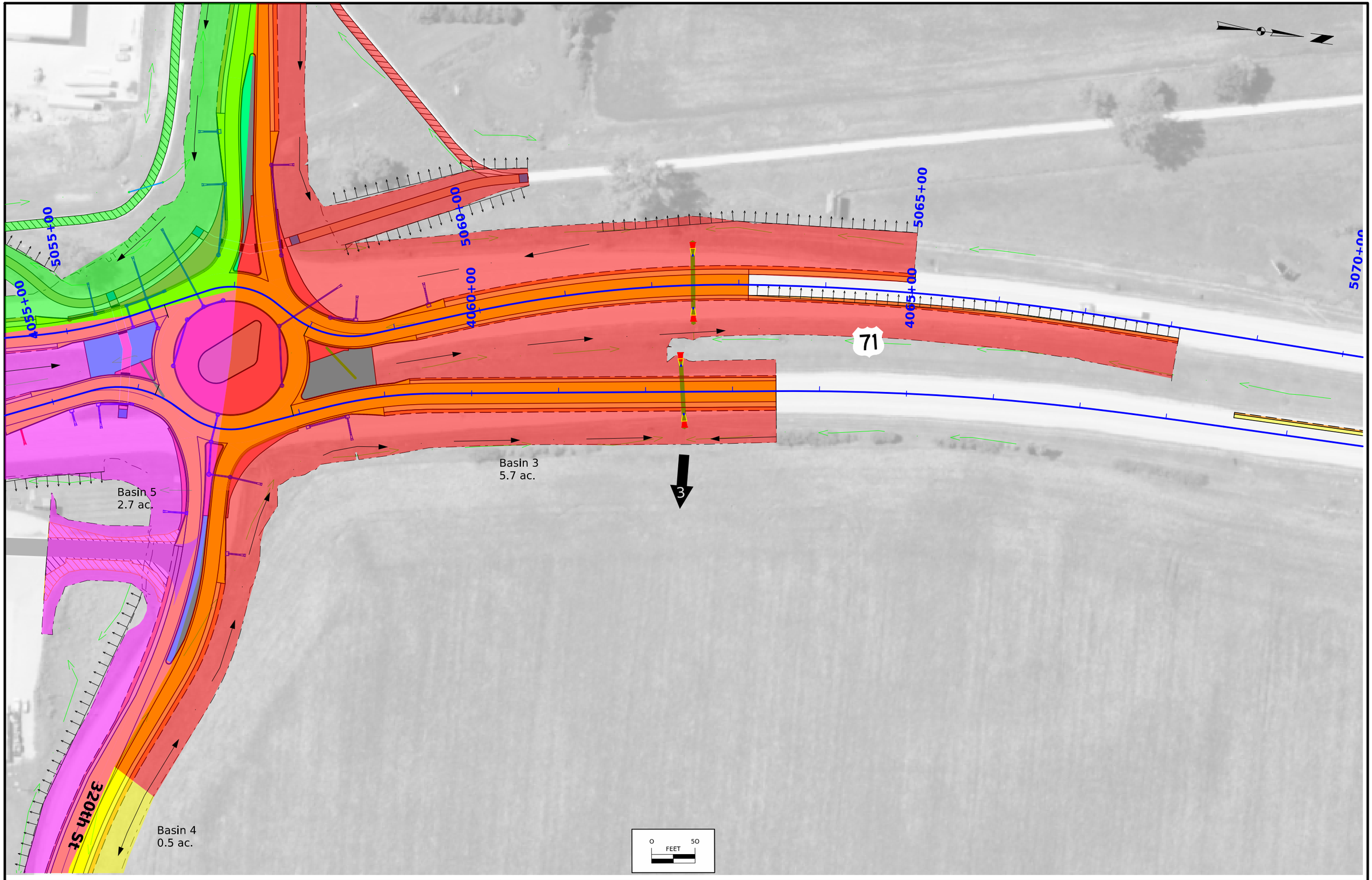
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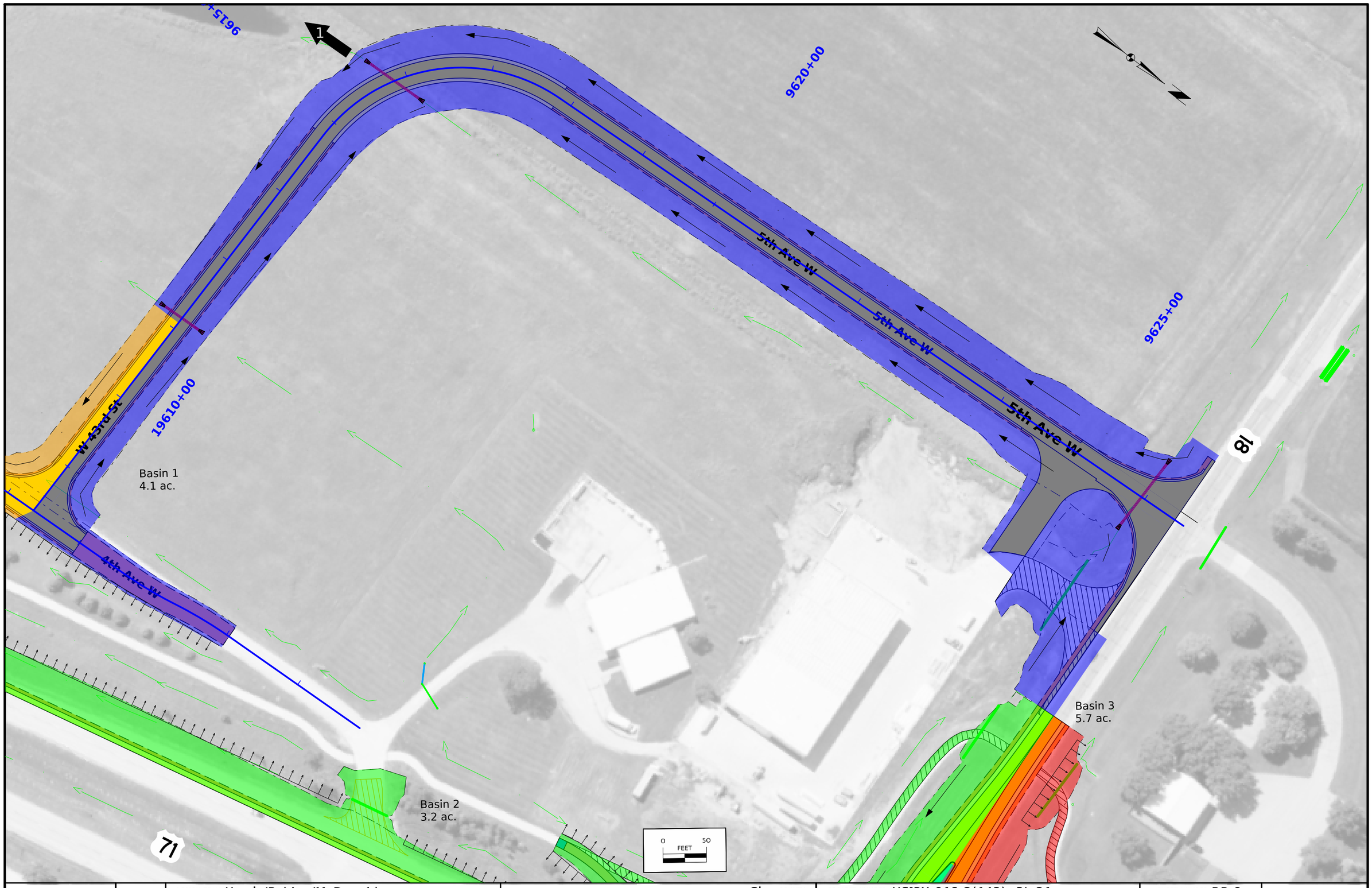
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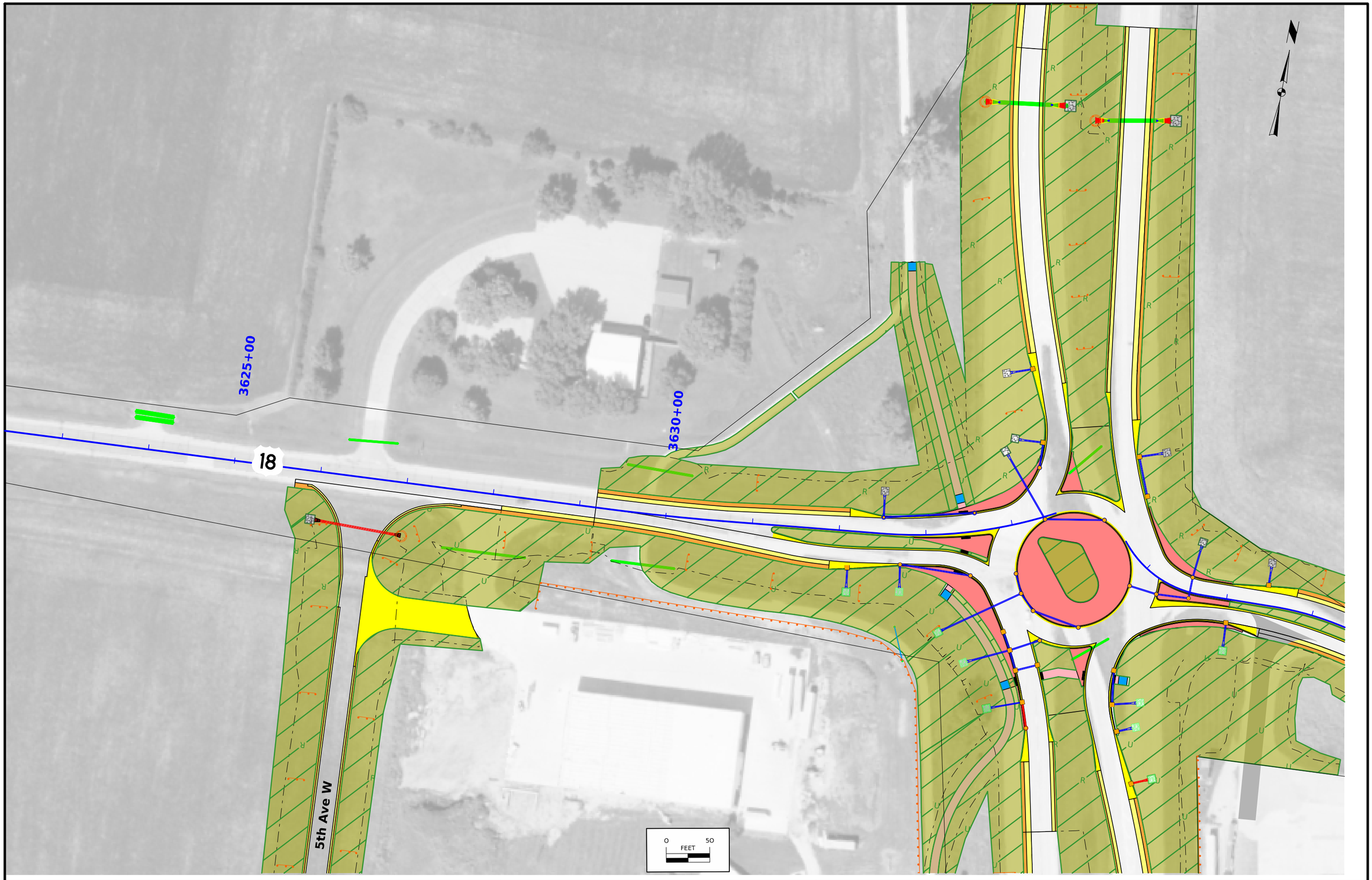
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7160+00

7165+00

320th St

2nd Ave E

0 50
FEET

FILE NO.	ENGLISH	DESIGN TEAM Harris/Pohlen/McDonald	Clay COUNTY	PROJECT NUMBER HSIPX-018-2(142)--3L-21	SHEET NUMBER RR.10	

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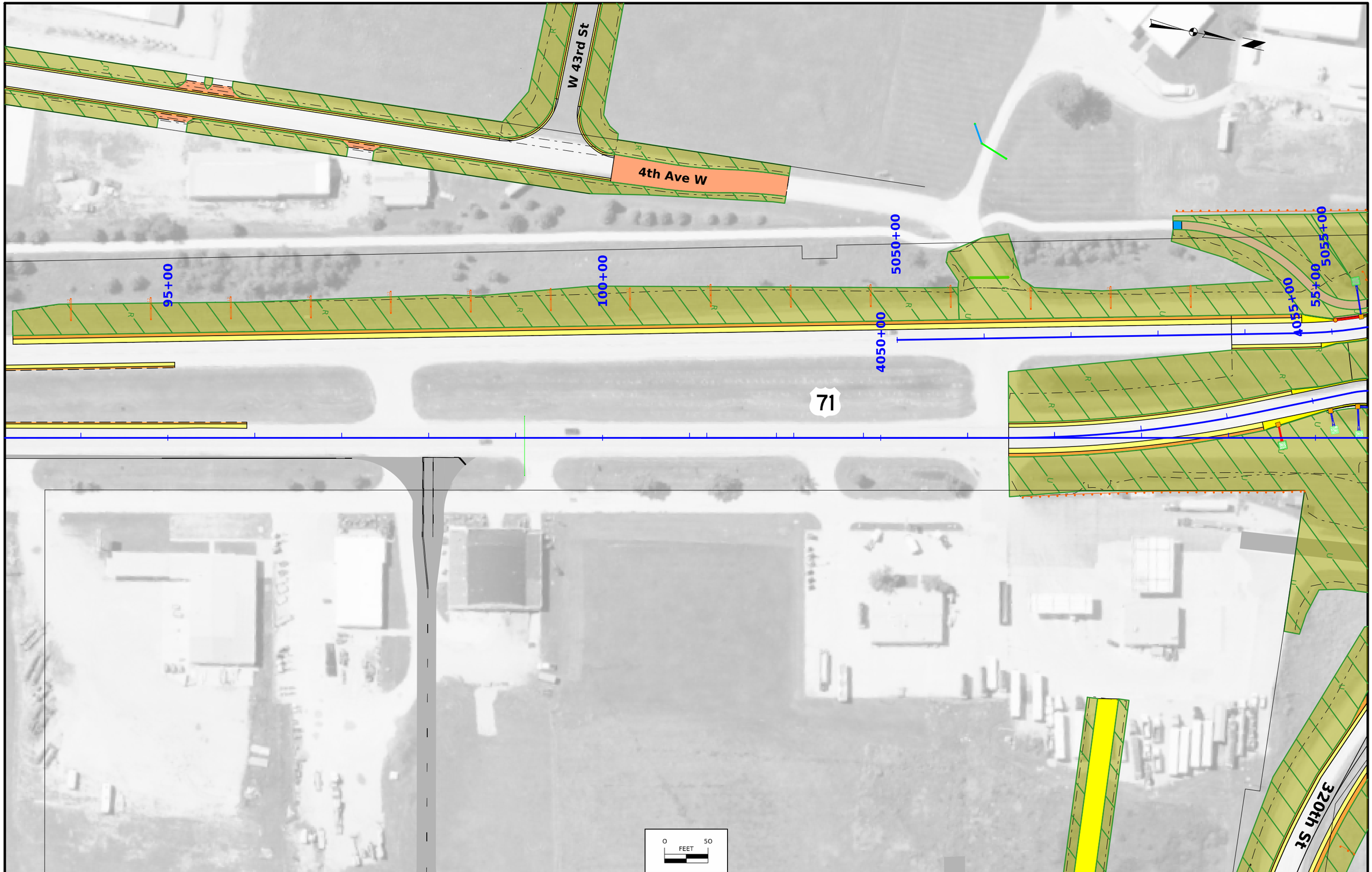
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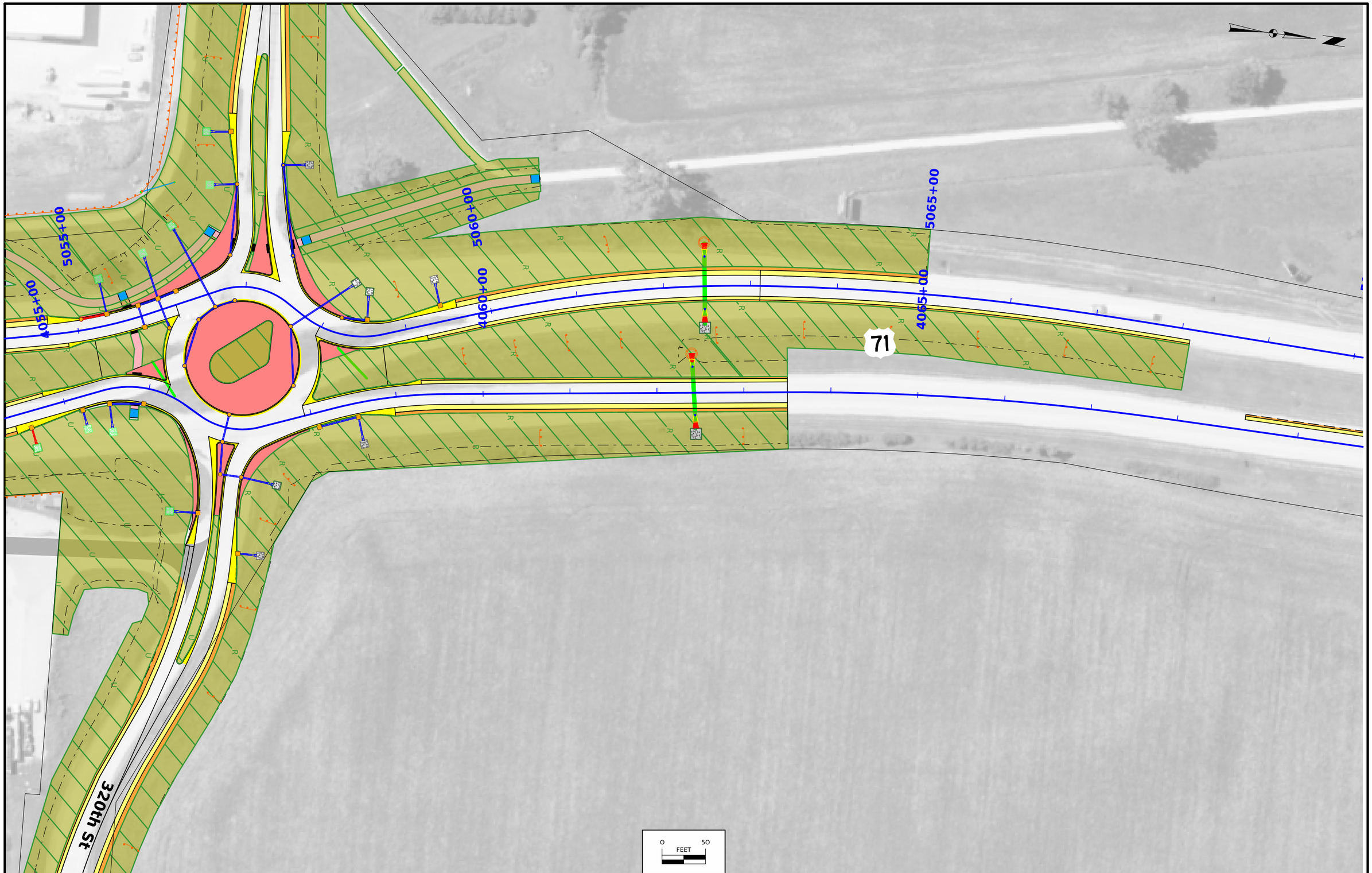
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19590+00

19595+00

19600+00

4th Ave W

W 37th St

20080+00

71

0 50
FEET

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9620+00

9625+00

19610+00

W 43rd St

5th Ave W

4th Ave W

18

71

0 50 FEET

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SURVEY SYMBOLS

- Interstate Highway Symbol
- U.S. Highway Symbol
- Iowa Highway Symbol
- County Road Highway Symbol
- Evergreen Tree
- Deciduous Tree
- Fruit Tree
- Shrub (Bushes)
- Timber
- Hedge
- Stump
- Swamp
- Rock Outcrop
- Broken Concrete
- Revetment (Rip Rap)
- Cemetery
- Grave
- Cave
- Sink Hole
- Board Fence
- Chain Link or Security Fence
- Wire Fence
- Terrace
- Earth Dam or Dike (Existing)
- Tile Outlet
- Edge of Water
- Existing Drainage
- Right of Way Rail or Lot Corner
- Concrete Monument
- Well
- Windmill
- Beehive Intake
- Existing Intake
- Existing Utility Access (Manhole)
- Fire Hydrant
- WH Water Hydrant (Rural)
- Septic Tank
- Cistern
- L.P. Gas Tank (No Footing)
- Underground Storage Tank
- Latrine
- Satellite TV Dish
- WHU Water Hook Up
- RT Radio Tower
- TA Tower Anchor
- Guardrail (Beam or Cable)
- GP Guard Post (one or two)
- Guard Post (over two)
- FP Filler Pipe
- GV Gas Valve
- WV Water Valve
- SL Speed Limit Sign
- MM Mile Marker Post
- SIGN Sign
- TCB Traffic Signal Control Box
- RRB Rail Road Signal Control Box
- TSB Telephone Switch Box
- EB Electric Box

UTILITY LEGEND

— E1 —
Alliant Energy
Billie Reid
Real Estate and ROW Representative II
billiereid@alliantenergy.com

— E2 —
Private Electrical Line (Owner Unknown)

— E3 —
Spencer Municipal Utilites
Sean Hefner
Electric Manager
sean.hefner@smunet.net 712-240-3618

— E4 —
Iowa DOT
Jason Dale
ITS Maintenance Engineer
Jason.Dale@iowadot.us

— E5 —
Iowa Lakes Electric Coop
Brian Scott
Field Superintendent
brians@ilec.coop 7122604012

— FO —
Spencer Municipal Utilites
Mark White
Public Works Director
mwhite@spenceriowacity.com

— FO2 —
LongLines Broadband
Tom Connors
Design/Construction Manager
tconnors@longlines.biz 515-554-5227

— FO3 —
H&D UNDERGROUND

— FO4 —
Iowa Communications Network (ICN)
David Augspurger
Sr Telecom Specialist | OSP Lead
david.augspurger@icn.state.ia.us (515) 229-2013

— FO5 —
CenturyLink
Steve Parker
Manager of Engineering & Construction
Steven.Parker4@lumen.com 5073581978

— G —
Northern Natural Gas
Jeff Larson
Senior Right of Way Agent
Jeff.Larson@nngco.com

— G2 —
GL1D, Black Hills Energy - Quality D
Morgan Post
Design Engineer
morgan.post@blackhillscorp.com 307-696-9394

— ST S(C)·

— T1 —
Lumen CenturyLink
Steve Parker
Manager of Engineering & Construction
Steven.Parker4@lumen.com 5073581978

— W —
Spencer Municipal Utilities (SMU)
Mark White
Public Works Director
mwhite@spenceriowacity.com

PPB, Iowa Lakes Electric Coop

PPA, Spencer Municipal Utilities (SMU)

— FO6 —
FO5D, Mediacom - Quality D
Jeff Anfinson
Technical Operations Manager
janfinson@mediacomcc.com

— FO7 —
FO5D, Private Midwestern Mechanical - Quality D

— FO8 —
FO5D, Premier Communications - 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.	
Tan	(8)	Proposed Sidewalk Shading
Blue, Light	(230)	Proposed Sidewalk Landing Shading
Pink	(11)	Proposed Sidewalk Ramp Shading
Magenta	(5)	Detectable Warning
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
Brown, Light	(236)	Grading Shading

Reference Point
Station
- Survey Line
- Section Corner
- Ground Line Intercept
- Saw Cut
- Guardrail
- Clearing & Grubbing Area
- Pavement Removal

RIGHT-OF-WAY LEGEND

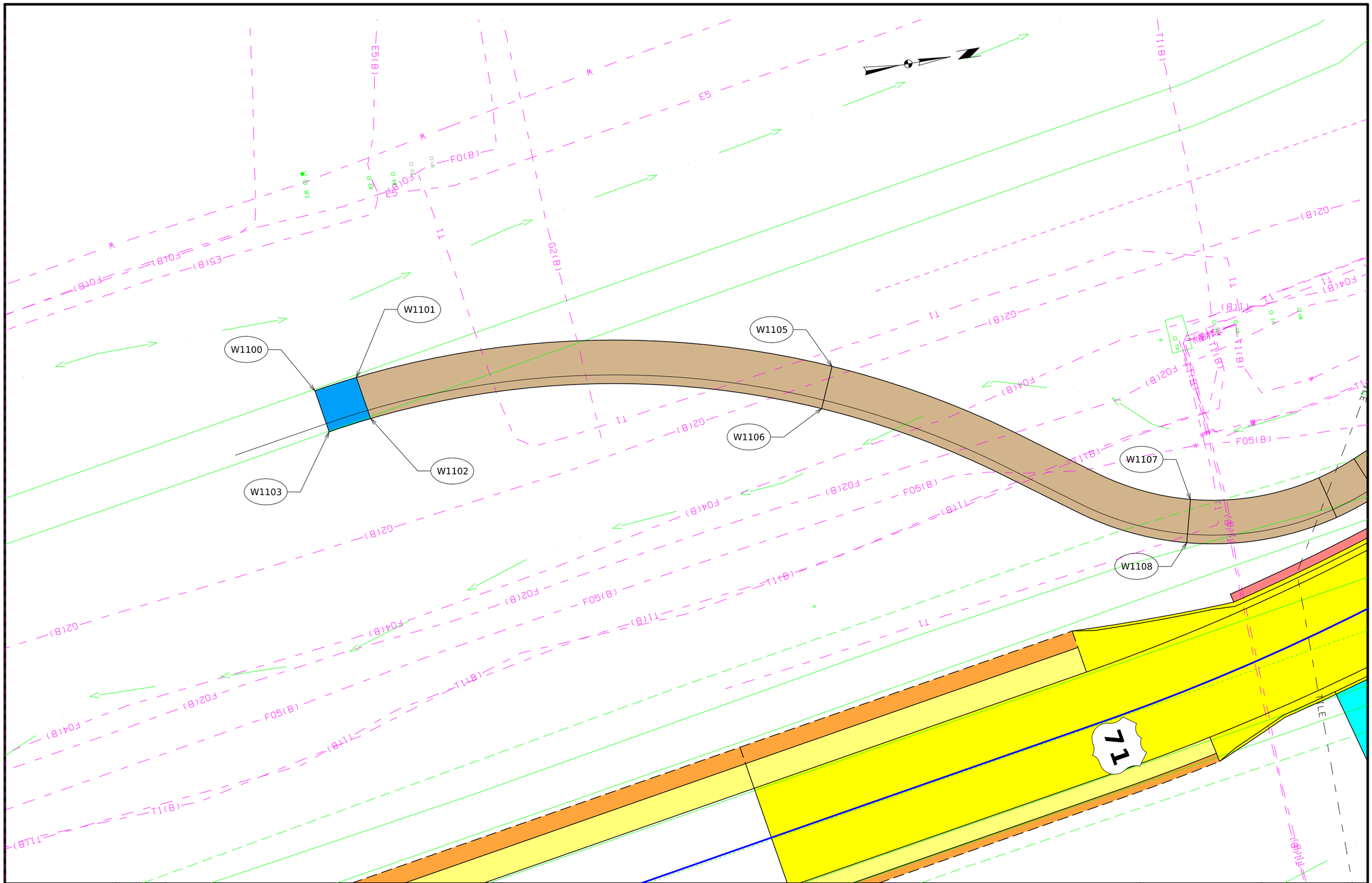
- Proposed Right-of-Way
- Existing and Proposed Right-of-Way
- Easement and Existing Right-of-Way
- Borrow
- Easement (Temporary)
- Easement
- Excess
- A/C Access Control

SIDEWALK LEGEND AND SYMBOL INFORMATION SHEET

(COVERS SHEET SERIES S)

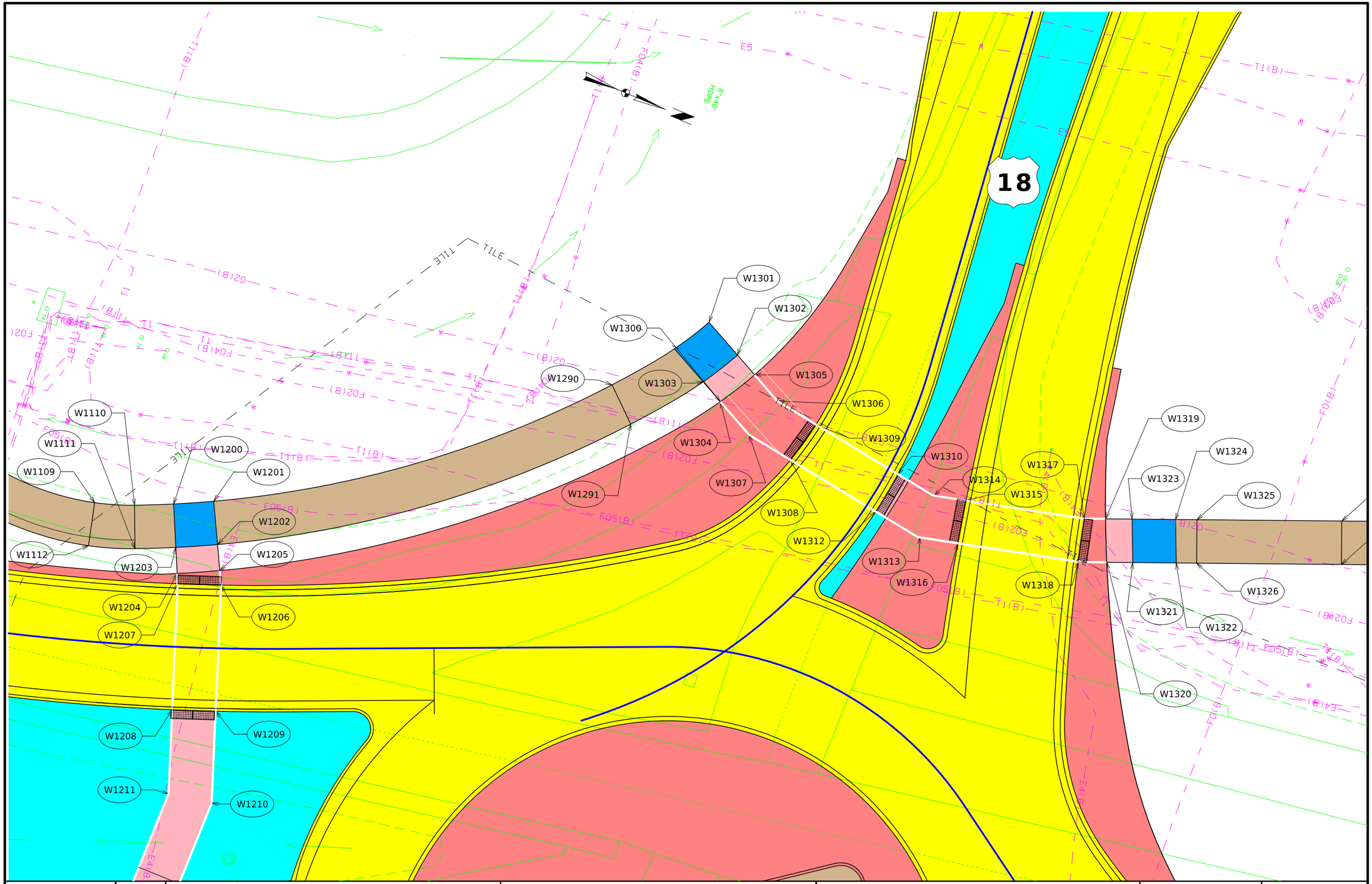
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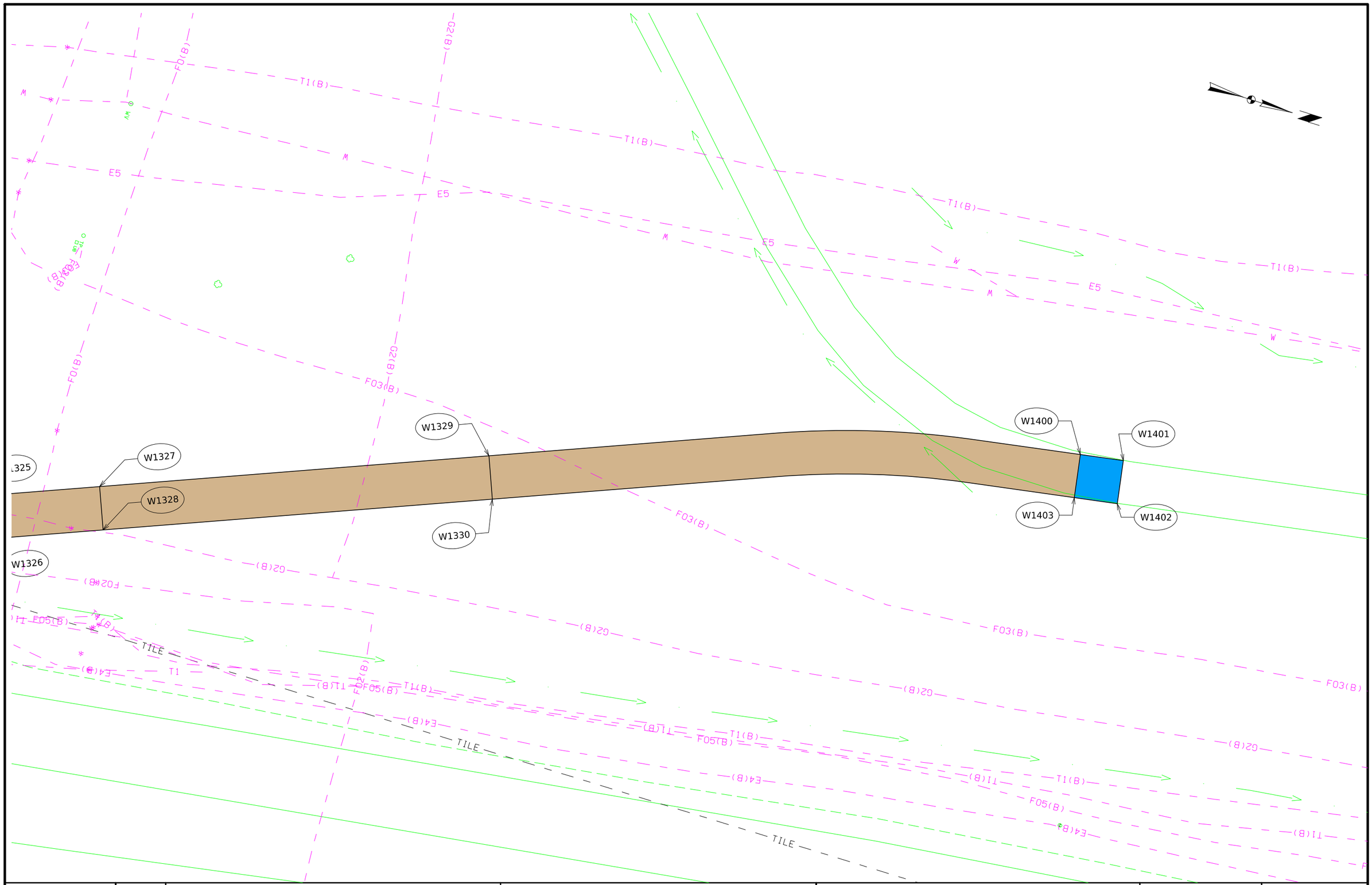
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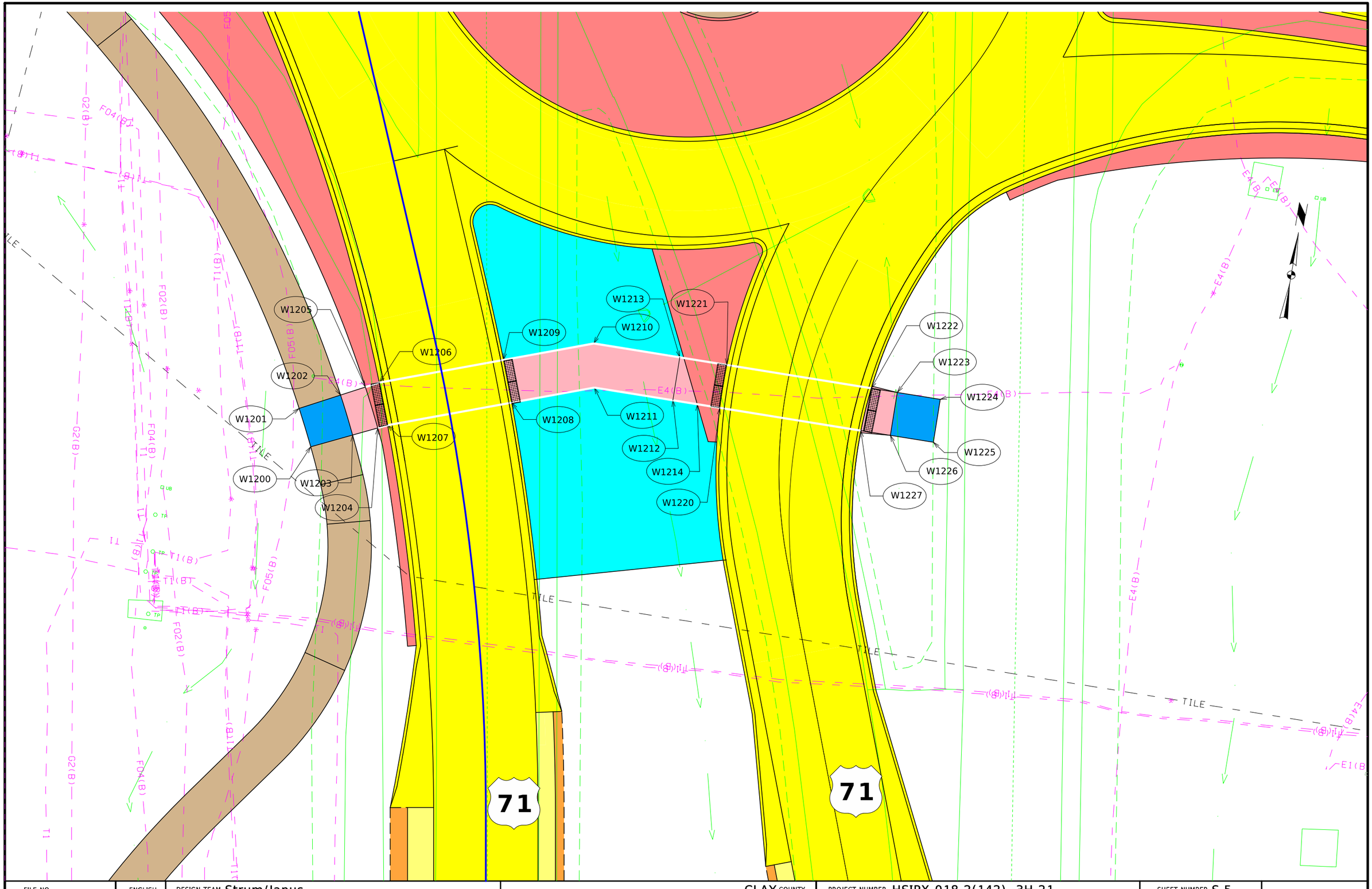
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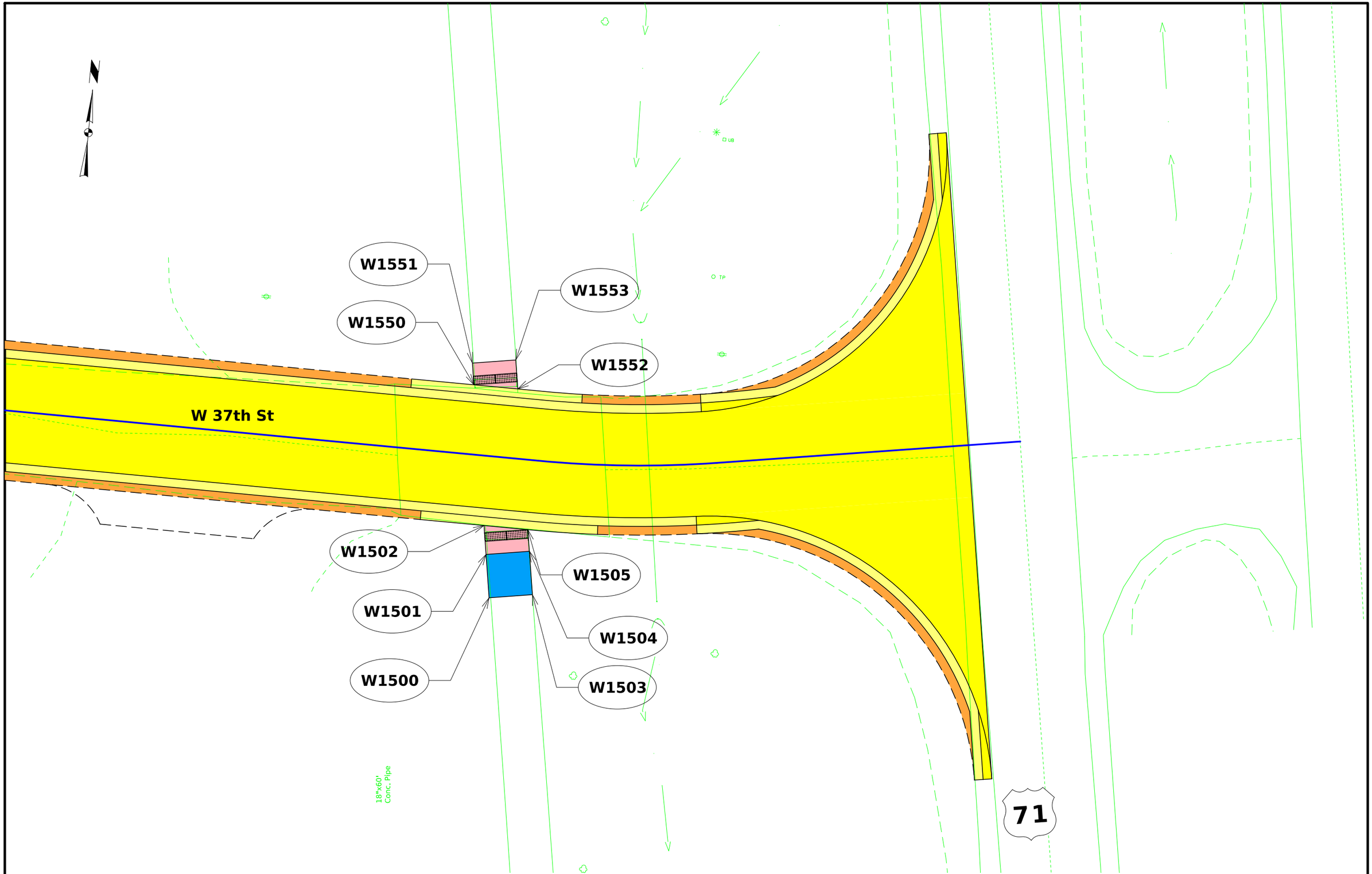
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SIDEWALK COMPLIANCE

See S Sheets

* Does not include curb
(1) Staking required by Contracting Authority per Article 2511.03 of the Standard Specifications.
(2) Refer to tabulation 113-01 for bid quantities.

Point to Point		Sidewalk Designation	_" PCC Sidewalk (2)	Distance*	Δ Elevation	Slope	Acceptable Constructed Range	Staking Required on this Quadrant? (1)	Measured Slope	Initials	Remarks	FOR INFORMATION ONLY: VALUES USED TO DETERMINE DESIGNED SLOPES			
												Point	Station	Offset	Elevation
				FT	FT	%	Pos. or Neg.		%						
W1100	W1101	Landing/Turning Space	6	10.00	0.06	0.6%	0.1% to 2.0%					W1100	5053+19.39	131.63	1337.79
W1100	W1103	Landing/Turning Space	6	10.00	-0.12	-1.2%	0.1% to 2.0%					W1101	5053+29.39	131.37	1337.85
W1101	W1102	Landing/Turning Space	6	10.00	-0.15	-1.5%	0.1% to 2.0%					W1102	5053+29.37	121.36	1337.70
W1103	W1102	Landing/Turning Space	6	10.00	0.03	0.3%	0.1% to 2.0%					W1103	5053+19.37	121.63	1337.67
W1101	W1105	Sidewalk Running Slope	6	110.65	0.30	0.3%	0.5% to 5.0%					W1105	5054+33.50	97.66	1338.15
W1102	W1106	Sidewalk Running Slope	6	104.90	0.30	0.3%	0.5% to 5.0%					W1106	5054+28.05	89.28	1338.00
W1105	W1106	Sidewalk Cross Slope	6	10.00	-0.15	-1.5%	0.5% to 2.0%					W1107	5055+04.41	40.14	1338.88
W1105	W1107	Sidewalk Running Slope	6	88.30	0.73	0.8%	0.5% to 5.0%					W1108	5054+99.30	31.34	1338.73
W1106	W1108	Sidewalk Running Slope	6	89.97	0.73	0.8%	0.5% to 5.0%					W1109	5055+35.42	31.91	1339.05
W1107	W1108	Sidewalk Cross Slope	6	10.00	-0.15	-1.5%	0.5% to 2.0%					W1110	5055+45.21	32.02	1339.17
W1107	W1109	Sidewalk Running Slope	6	30.23	0.17	0.6%	0.5% to 5.0%					W1111	5055+46.03	22.05	1339.02
W1108	W1112	Sidewalk Running Slope	6	35.33	0.18	0.5%	0.5% to 5.0%					W1112	5055+34.84	21.93	1338.91
W1109	W1112	Sidewalk Cross Slope	6	10.00	-0.14	-1.4%	0.5% to 2.0%								
W1109	W1110	Sidewalk Running Slope	6	9.19	0.12	1.3%	0.5% to 5.0%					W1200	5055+54.81	32.81	1339.28
W1110	W1111	Sidewalk Cross Slope	6	10.00	-0.15	-1.5%	0.5% to 2.0%					W1201	5055+64.63	33.79	1339.40
W1111	W1112	Sidewalk Running Slope	6	10.72	-0.11	-1.0%	0.5% to 5.0%					W1202	5055+65.84	23.85	1339.25
W1110	W1200	Sidewalk Running Slope	6	9.00	0.11	1.2%	0.5% to 5.0%					W1203	5055+55.82	22.85	1339.13
W1111	W1203	Sidewalk Running Slope	6	9.40	0.11	1.2%	0.5% to 5.0%					W1204	5055+56.41	16.88	1338.71
W1200	W1203	Landing/Turning Space	6	10.00	-0.15	-1.5%	0.1% to 2.0%					W1205	5055+66.54	17.88	1338.83
W1200	W1201	Landing/Turning Space	6	10.00	0.12	1.2%	0.1% to 2.0%					W1206	5055+66.93	14.50	1338.80
W1201	W1202	Landing/Turning Space	6	10.00	-0.15	-1.5%	0.1% to 2.0%					W1207	5055+56.64	14.50	1338.69
W1202	W1203	Landing/Turning Space	6	10.00	-0.12	-1.2%	0.1% to 2.0%					W1208	5055+56.64	14.50	1339.16
W1202	W1205	Ramp Running Slope	6	6.00	-0.42	-7.1%	0.5% to 8.3%					W1209	5055+66.36	14.50	1339.27
W1203	W1204	Ramp Running Slope	6	6.00	-0.42	-7.0%	0.5% to 8.3%					W1210	5055+65.99	35.62	1339.65
W1204	W1205	Ramp Cross Slope	6	10.00	0.12	1.2%	0.1% to 2.0%					W1211	5055+56.64	33.81	1339.53
W1205	W1206	Ramp Running Slope		3.38	-0.03	-0.9%	0.5% to 8.3%					W1212	5055+51.09	51.09	1339.79
W1204	W1207	Ramp Running Slope		2.38	-0.02	-0.9%	0.5% to 8.3%					W1213	5055+59.64	54.40	1339.93
W1206	W1207	Crosswalk Cross Slope - No Yield Condition		10.00	-0.11	-1.1%	0.0% to 5.0%								
W1208	W1209	Crosswalk Cross Slope - No Yield Condition	6	10.00	0.11	1.1%	0.0% to 5.0%								
W1209	W1210	Ramp Running Slope	6	21.17	0.38	1.8%	0.5% to 8.3%								
W1208	W1211	Ramp Running Slope	6	19.26	0.37	1.9%	0.5% to 8.3%								
W1210	W1211	Ramp Cross Slope	6	10.00	-0.12	-1.2%	0.1% to 2.0%								
W1211	W1212	Ramp Running Slope	6	18.29	0.27	1.5%	0.5% to 8.3%								
W1210	W1213	Ramp Running Slope	6	20.01	0.29	1.4%	0.5% to 8.3%								
W1212	W1220	Ramp Running Slope		10.99	-0.07	-0.6%	0.5% to 8.3%					W1220	4055+80.32	14.50	1339.72
W1213	W1221	Ramp Running Slope		10.96	-0.05	-0.5%	0.5% to 8.3%					W1221	4055+89.16	14.50	1339.88
W1212	W1213	Ramp Cross Slope	6	10.00	0.14	1.4%	0.1% to 2.0%					W1222	4055+90.81	19.14	1339.40
W1222	W1223	Ramp Running Slope	6	6.00	0.41	6.8%	0.5% to 8.3%					W1223	4055+91.24	25.18	1339.81
W1222	W1227	Crosswalk Cross Slope - Yield Condition	6	10.00	-0.20	-2.0%	0.0% to 2.0%					W1224	4055+92.12	35.16	1339.96
W1221	W1220	Crosswalk Cross Slope - Yield Condition	6	10.00	-0.15	-1.5%	0.0% to 2.0%					W1225	4055+77.41	35.17	1339.81
W1223	W1224	Landing/Turning Space	6	10.00	0.15	1.5%	0.1% to 2.0%					W1226	4055+78.27	25.19	1339.66
W1224	W1225	Landing/Turning Space	6	10.00	-0.15	-1.5%	0.1% to 2.0%					W1227	4055+78.75	18.33	1339.20
W1225	W1226	Landing/Turning Space	6	10.00	-0.15	-1.5%	0.1% to 2.0%					W1290	5056+57.49	60.34	1340.13
W1226	W1227	Ramp Running Slope	6	6.86	-0.47	-6.8%	0.5% to 8.3%					W1291	5056+61.76	51.29	1340.27
W1300	W1301	Landing/Turning Space	4	10.00	-0.13	-1.3%	0.1% to 2.0%					W1300	5056+70.84	68.58	1339.70
W1300	W1303	Landing/Turning Space	4	10.00	-0.13	-1.3%	0.1% to 2.0%					W1301	5056+74.96	74.96	1339.57
W1301	W1302	Landing/Turning Space	4	10.00	-0.14	-1.4%	0.1% to 2.0%					W1302	5056+78.79	67.98	1339.43
W1290	W1291	Sidewalk Cross Slope	4	10.00	0.14	1.4%	0.5% to 2.0%					W1303	5056+74.66	61.20	1339.58
W1290	W1300	Sidewalk Running Slope	4	18.39	-0.42	-2.3%	0.5% to 5.0%					W1304	5056+77.15	56.94	1339.18
W1291	W1303	Sidewalk Running Slope	4	21.31	-0.69	-3.2%	0.5% to 5.0%					W1305	5056+82.03	65.60	1339.04
W1302	W1303	Landing/Turning Space	4	10.00	0.15	1.5%	0.1% to 2.0%					W1306	5056+89.27	56.12	1338.99
W1303	W1304	Ramp Running Slope	6	6.00	-0.40	-6.7%	0.5% to 8.3%					W1307	5056+86.45	47.12	1339.17
W1302	W1305	Ramp Running Slope	6	6.00	-0.39	-6.4%	0.5% to 8.3%					W1308	5056+88.23	46.16	1339.02
W1305	W1306	Ramp Running Slope		7.90	-0.05	-0.7%	0.5% to 8.3%					W1309	5056+90.58	55.44	1338.89
W1304	W1307	Ramp Running Slope		10.00	-0.01	-0.1%	0.5% to 8.3%					W1310	5057+03.63	50.74	1339.30
W1306	W1309	Ramp Running Slope		10.40	-0.10	-1.0%	0.5% to 8.3%								
W1307	W1308	Ramp Running Slope		11.40	-0.14	-1.3%	0.5% to 8.3%					W1312	5057+02.81	40.83	1339.40
W1308	W1309	Crosswalk Cross Slope - Yield Condition	6	10.00	-0.14	-1.4%	0.0% to 2.0%					W1313	5057+10.37	39.71	1339.62
W1310	W1312	Crosswalk Cross Slope - Yield Condition	6	10.00	0.11	1.1%	0.0% to 2.0%					W1314	5057+10.65	39.85	1339.50
W1310	W1314	Ramp Running Slope	6	9.70	0.21	2.1%	0.5% to 8.3%					W1315	5057+13.91	52.49	1339.47
W1312	W1313	Ramp Running Slope	6	11.70	0.22	1.9%	0.5% to 8.3%					W1316	5057+16.14	43.13	1339.58
W1313	W1316	Ramp Running Slope		8.90	-0.04	-0.5%	0.5% to 8.3%					W1317	5057+28.19	64.99	1338.92
W1314	W1315	Ramp Running Slope		7.40	-0.04	-0.5%	0.5% to 8.3%					W1318	5057+31.38	56.67	1339.03
W1315	W1316	Crosswalk Cross Slope - No Yield Condition	6	10.00	0.11	1.1%	0.0% to 5.0%					W1319	5057+30.25	68.21	1338.96
W1317	W1318	Crosswalk Cross Slope - No Yield Condition	6	10.00	0.11	1.1%	0.0% to 5.0%					W1320	5057+34.21	61.14	1339.09
W1317	W1319	Ramp Running Slope		4.91	0.04	0.8%	0.5% to 8.3%					W1321	5057+36.59	65.38	1339.44
W1318	W1320	Ramp Running Slope		6.60	0.06	0.9%	0.5% to 8.3%					W1322	5057+40.28	72.74	1339.59
W1320	W1321	Ramp Running Slope	6	6.00	0.35	5.8%	0.5% to 8.3%					W1323	5057+32.68	72.34	1339.33
W1319	W1323	Ramp Running Slope	6	6.00	0.37	6.1%	0.5% to 8.3%					W1324	5057+36.39	79.36	1339.48
W1321	W1323	Landing/Turning Space	6	10.00	-0.11	-1.1%	0.1% to 2.0%					W1325	5057+38.09	82.93	1339.56
W1323	W1324	Landing/Turning Space	6	10.00	0.15	1.5%	0.1% to 2.0%					W1326	5057+41.88	76.29	1339.69
W1321	W1322	Landing/Turning Space	6	10.00	0.15	1.5%	0.1% to 2.0%					W1327	5057+47.87	108.67	1339.24
W1322	W1324	Landing/Turning Space	6	10.00	-0.11	-1.1%	0.1% to 2.0%					W1328	5057+52.37	102.94	1339.09
W1324	W1325	Ramp Running Slope	6	4.80	0.08	1.7%	0.5% to 8.3%					W1329	5059+41.62	141.40	1337.65
W1325	W1326	Sidewalk Cross Slope	6	10.00	0.13	1.3%	0.5% to 2.0%					W1330	5059+42.50	131.44	1337.50
W1322	W1326	Sidewalk Running Slope	6	4.69	0.10	2.0%	0.5% to 5.0%								

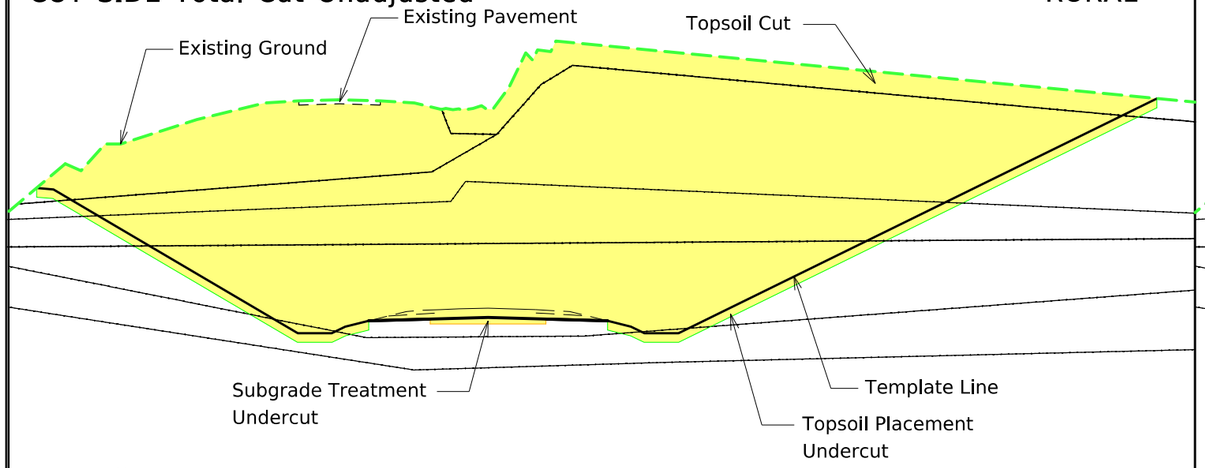
SIDEWALK COMPLIANCE

See S Sheets

* Does not include curb
(1) Staking required by Contracting Authority per Article 2511.03 of the Standard Specifications.
(2) Refer to tabulation 113-01 for bid quantities.

Point to Point		Sidewalk Designation	_" PCC Sidewalk (2)	Distance*	Δ Elevation	Slope	Acceptable Constructed Range	Staking Required on this Quadrant? (1)	Measured Slope	Initials	Remarks	FOR INFORMATION ONLY: VALUES USED TO DETERMINE DESIGNED SLOPES			
												Point	Station	Offset	Elevation
				FT	FT	%	Pos. or Neg.		%						
W1325	W1327	Sidewalk Running Slope	6	33.30	-0.31	-0.9%	0.5% to 5.0%					W1400	5060+68.77	145.89	1337.19
W1325	W1327	Sidewalk Running Slope	6	33.30	-0.31	-0.9%	0.5% to 5.0%					W1401	5060+77.82	145.23	1337.11
W1327	W1328	Sidewalk Cross Slope	6	10.00	-0.15	-1.5%	0.5% to 2.0%					W1402	5060+77.25	135.25	1337.03
W1327	W1329	Sidewalk Running Slope	6	89.81	-1.59	-1.8%	0.5% to 5.0%					W1403	5060+68.14	135.92	1337.04
W1328	W1330	Sidewalk Running Slope	6	89.81	-1.59	-1.8%	0.5% to 5.0%								
W1329	W1330	Sidewalk Cross Slope	6	10.00	-0.15	-1.5%	0.5% to 2.0%								
W1329	W1400	Sidewalk Running Slope	6	136.60	-0.46	-0.3%	0.5% to 5.0%					W1500	20080+47.46	32.44	1327.60
W1330	W1403	Sidewalk Running Slope	6	134.41	-0.46	-0.3%	0.5% to 5.0%					W1501	20080+45.81	22.58	1327.69
W1400	W1403	Landing/Turning Space	6	10.00	-0.15	-1.5%	0.1% to 2.0%					W1502	20080+44.71	16.00	1327.51
W1400	W1401	Landing/Turning Space	6	10.00	-0.08	-0.8%	0.1% to 2.0%					W1503	20080+57.15	30.80	1327.45
W1402	W1403	Landing/Turning Space	6	10.00	0.02	0.2%	0.1% to 2.0%					W1504	20080+55.68	20.93	1327.57
W1401	W1402	Landing/Turning Space	6	10.00	-0.09	-0.9%	0.1% to 2.0%					W1505	20080+54.85	16.00	1327.45
W1500	W1501	Landing/Turning Space	6	10.00	0.09	0.9%	0.1% to 2.0%					W1550	20080+39.37	16.00	1327.54
W1501	W1502	Ramp Running Slope	6	6.67	-0.18	-2.6%	0.5% to 8.3%					W1551	20080+38.55	20.93	1327.82
W1500	W1503	Landing/Turning Space	6	10.00	-0.15	-1.5%	0.1% to 2.0%					W1552	20080+49.51	16.00	1327.49
W1503	W1504	Landing/Turning Space	6	10.00	0.12	1.2%	0.1% to 2.0%					W1553	20080+48.41	22.58	1327.72
W1504	W1505	Ramp Running Slope	6	5.00	-0.12	-2.3%	0.5% to 8.3%								
W1501	W1504	Landing/Turning Space	4	10.00	-0.12	-1.2%	0.1% to 2.0%								
W1502	W1505	Crosswalk Cross Slope - Yield Condition	6	10.12	-0.06	-0.6%	0.0% to 2.0%								
W1550	W1551	Ramp Running Slope	6	5.00	0.28	5.5%	0.5% to 8.3%								
W1552	W1553	Ramp Running Slope	6	6.67	0.24	3.6%	0.5% to 8.3%								
W1551	W1553	Landing/Turning Space	6	10.00	-0.09	-0.9%	0.1% to 2.0%								

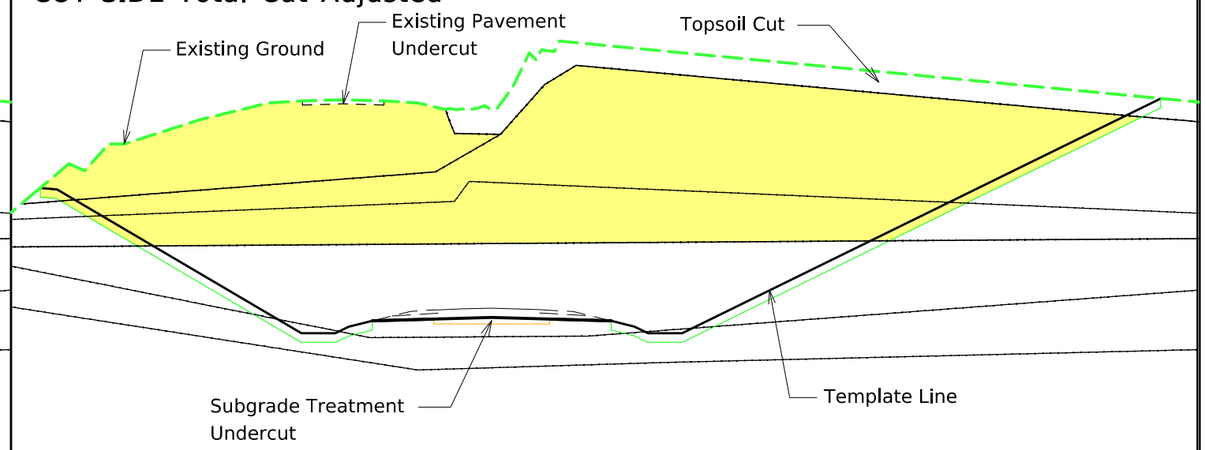
CUT SIDE Total Cut Unadjusted — RURAL



Notes:

1. "Total Cut Unadjusted" Column includes all cut values in the Station Range based on Typical, Topsoil and Subgrade Treatment needs.
2. "Total Cut Unadjusted" does not include and Existing Pavement values inside or outside the cut template as shown on cross sections.
3. Tabulated Plowing and Shaping operations are included in the "Total Cut Unadjusted" values.

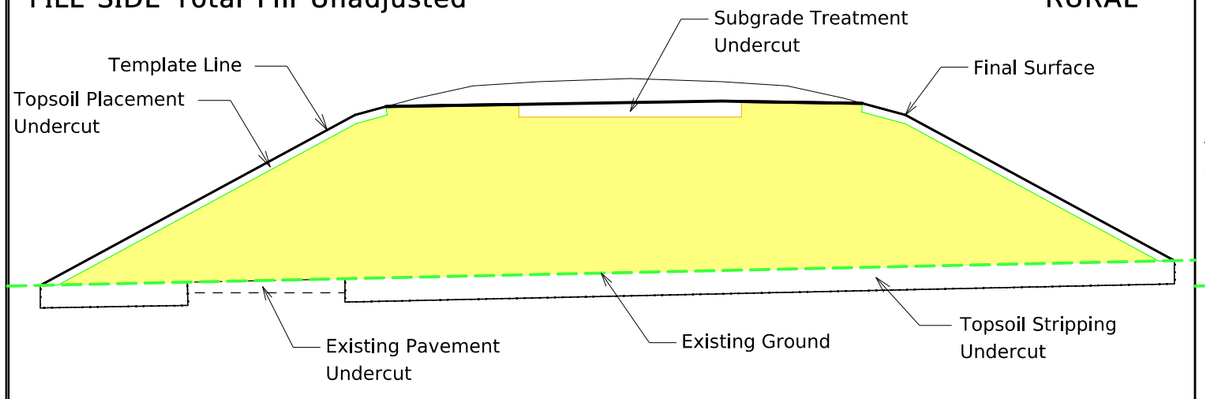
CUT SIDE Total Cut Adjusted



Notes:

1. "Total Cut Adjusted" Column includes all cut values usable as Class 10 material.
2. "Total Cut Adjusted" does not include and Existing Pavement , Existing Topsoil, or material to be wasted.

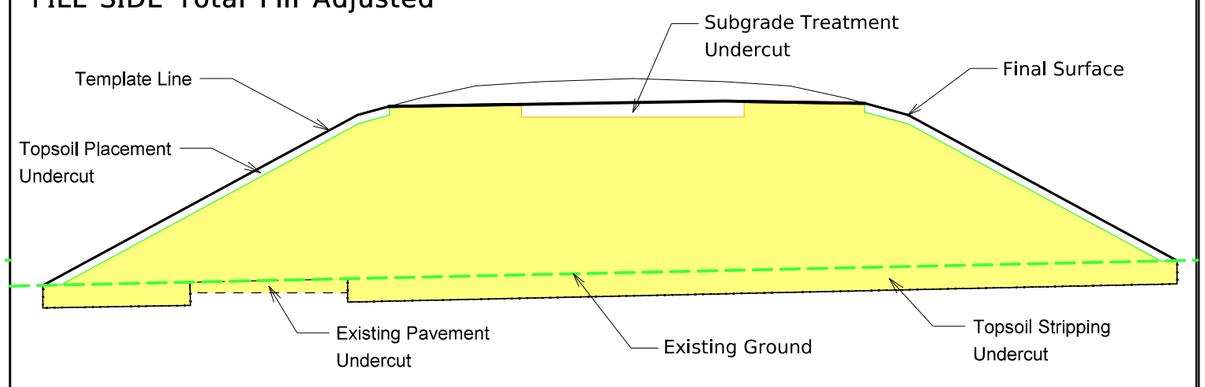
FILL SIDE Total Fill Unadjusted — RURAL



Notes:

1. "Total Fill Unadjusted" Column includes all Class 10, 12, and 13 fill. This excludes the topsoil, subgrade treatment, subbase, new pavement, and shoulder fill needs in that station range.
2. "Total Fill Unadjusted" Column does not include adjustments for additional fill from cuts such as existing pavement removed, plowing and shaping operations, entrances, dikes, or topsoil stripping.

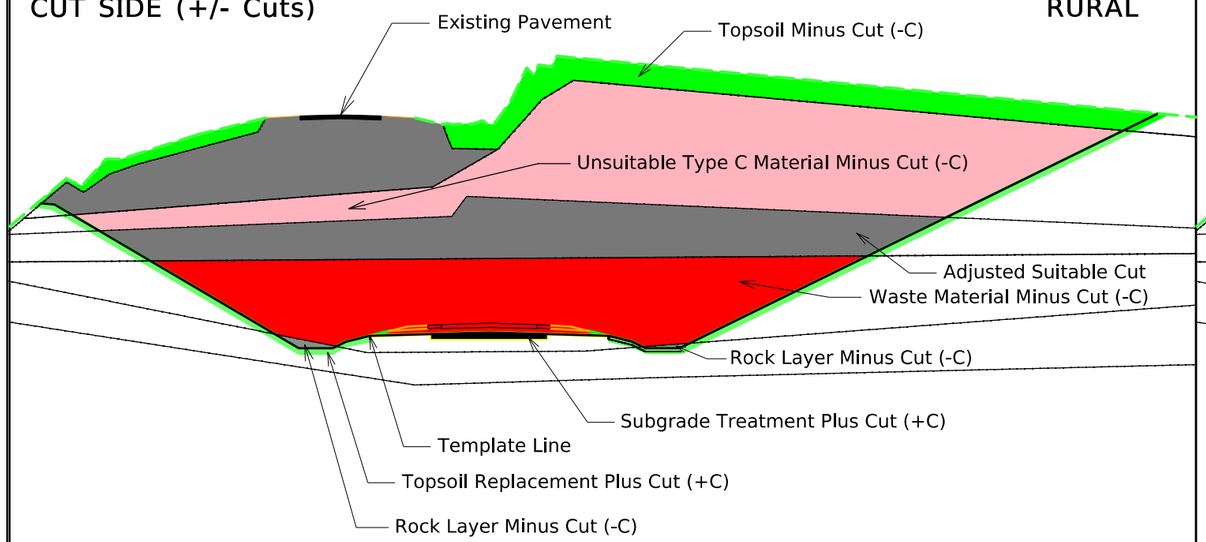
FILL SIDE Total Fill Adjusted



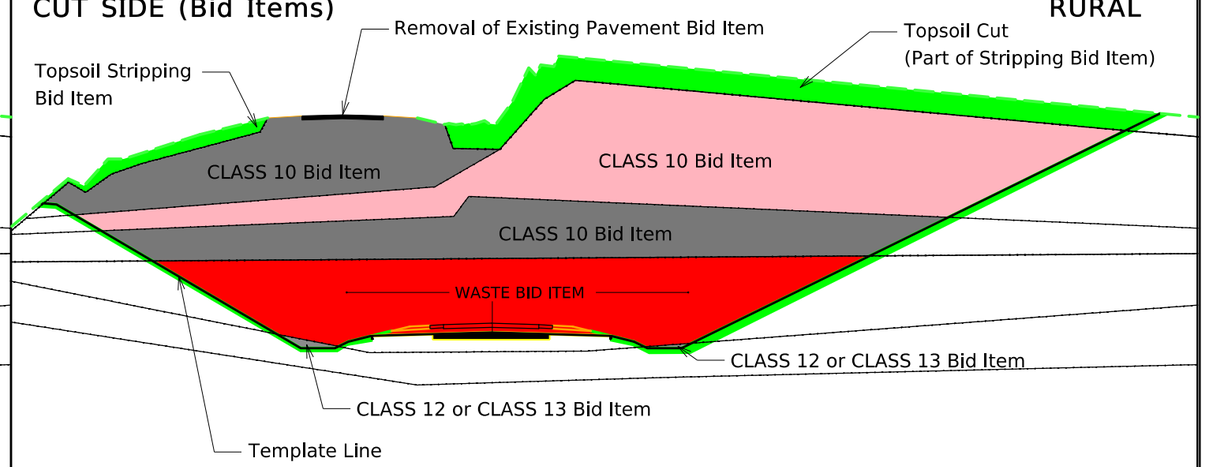
Notes:

1. "Total Fill Adjusted" Column includes all Class 10, 12, and 13 fill and adjustments for additional fill from cuts such as existing pavement, plowing and shaping operations, entrances, dikes, and topsoil stripping.
2. The available area to place unsuitable materials in the T Sheet tabulation does not include the undercut values from the topsoil stripping, existing pavement, or plowing and shaping

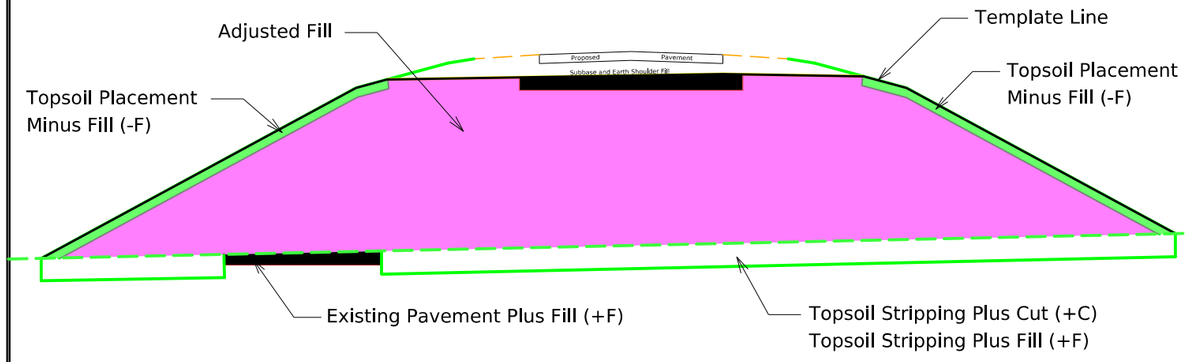
CUT SIDE (+/- Cuts) — RURAL



CUT SIDE (Bid Items) — RURAL



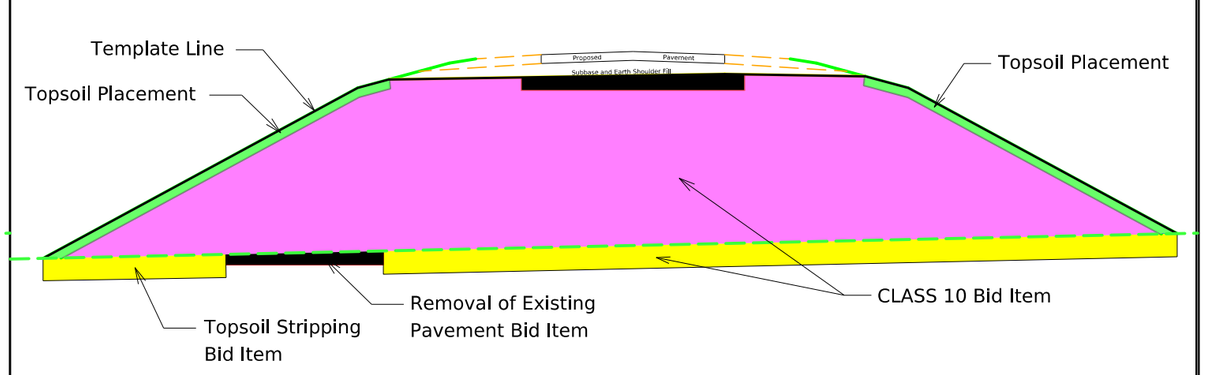
FILL SIDE (+/- Fills) — RURAL



Notes:

1. "Add Quantity +C" columns are additional cut encountered that is not Typical, Topsoil, or Subgrade Treatment Based. (Entrance, Dike, Etc.)
2. "-C" columns are either soil types or Class 10, 12, or 13 designated material that is encountered in the cut station range that is paid for by other bid items.
3. The "(SoilType) Cut" columns are soil types encountered in the cut that are paid by either Class 10, 12, or 13.
4. The "Adjusted Clas (10,12 or 13)" columns are the sum of all various soil types encountered in that station range, that are paid by Class 10, 12, or 13 bid items.
5. Refer to Standard Road Plan EW-102 for placement of unsuitable soil types.

FILL SIDE (Bid Items) — RURAL



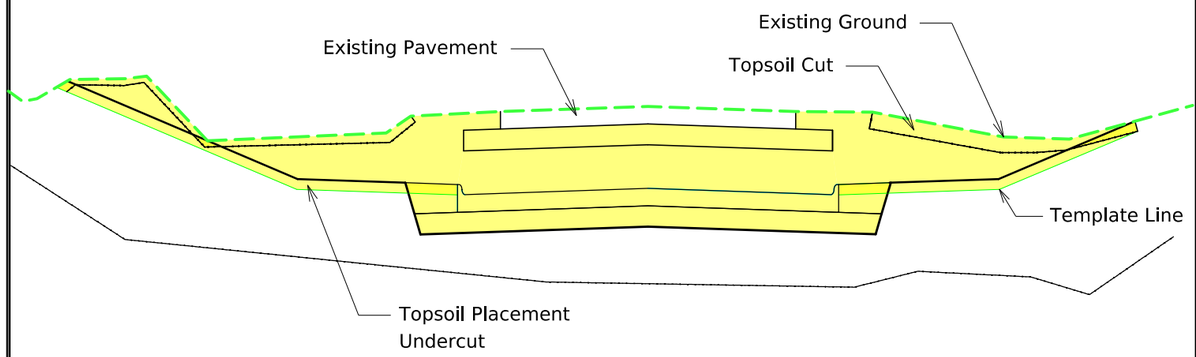
Notes:

1. Refer to Standard Road Plan EW-102 for placement of unsuitable soil types.

FILE NO.	ENGLISH	DESIGN TEAM **Strum/Janus**	**CLAY** COUNTY	PROJECT NUMBER **HSIPX-018-2(142)--3H-21**	SHEET NUMBER **T.2**

11:39:15 AM 5/29/2026 ajanus2 pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\2101802023\Design\CADD_Files\Sheet_Files\SHT_21018142_D01.dgn

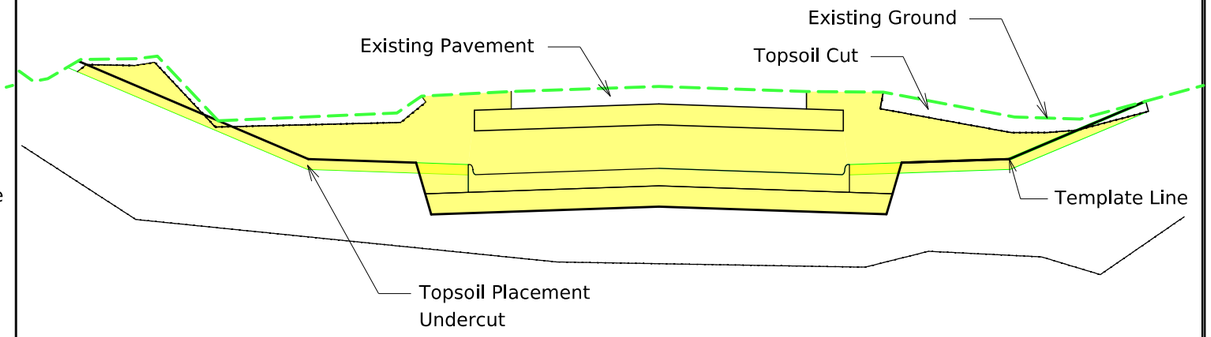
CUT SIDE Total Cut Unadjusted — URBAN



Notes:

1. "Total Cut Unadjusted" Column includes all cut values in the Station Range based on Typical, Topsoil and Subgrade Treatment needs.
2. "Total Cut Unadjusted" does not include and Existing Pavement values inside or outside the cut template as shown on cross sections.
3. Tabulated Plowing and Shaping operations are included in the "Total Cut Unadjusted" values.

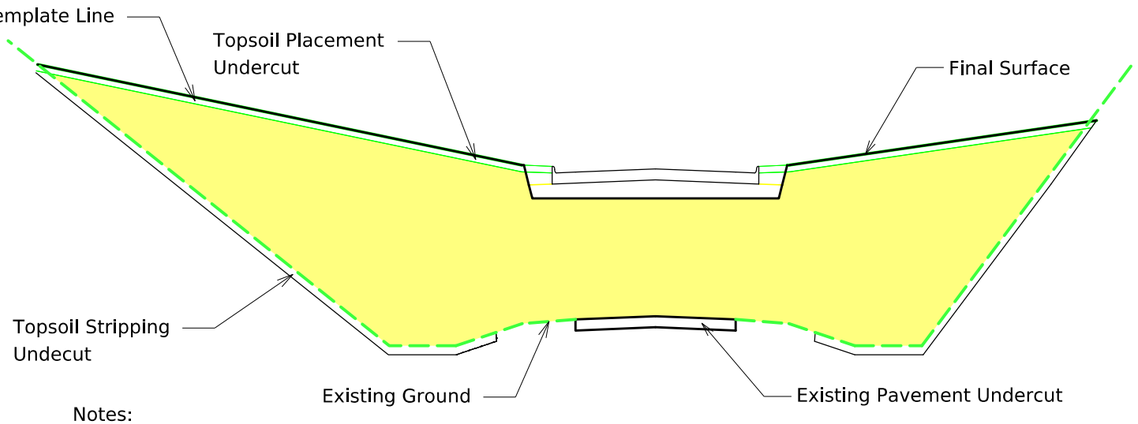
CUT SIDE Total Cut Adjusted — URBAN



Notes:

1. "Total Cut Adjusted" Column includes all cut values usable as Class 10 material.
2. "Total Cut Adjusted" does not include and Existing Pavement , Existing Topsoil, or material to be wasted.

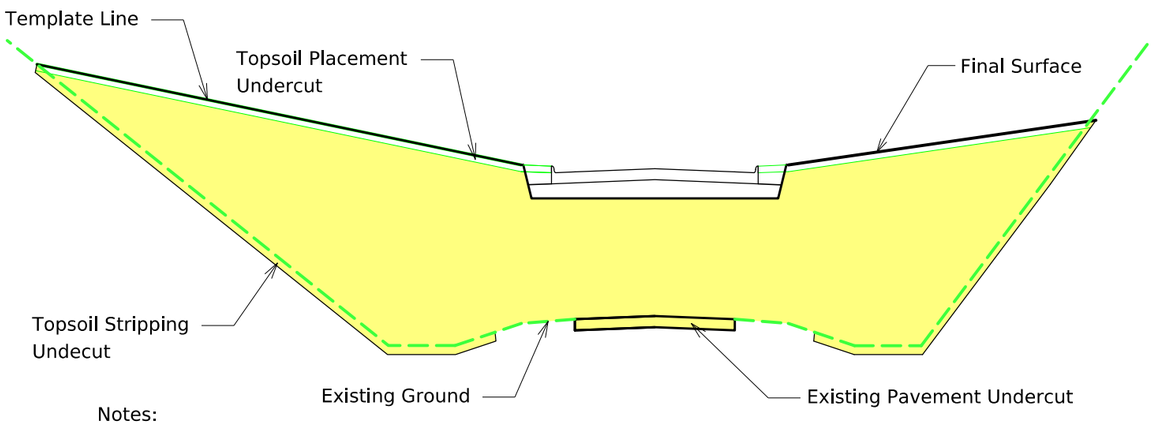
FILL SIDE Total Fill Unadjusted — URBAN



Notes:

1. "Total Fill Unadjusted" Column includes all Class 10, 12, and 13 fill. This excludes the topsoil, subgrade treatment, subbase, new pavement, and shoulder fill needs in that station range.
2. "Total Fill Unadjusted" Column does not include adjustments for additional fill from cuts such as existing pavement removed, plowing and shaping operations, entrances, dikes, or topsoil stripping.

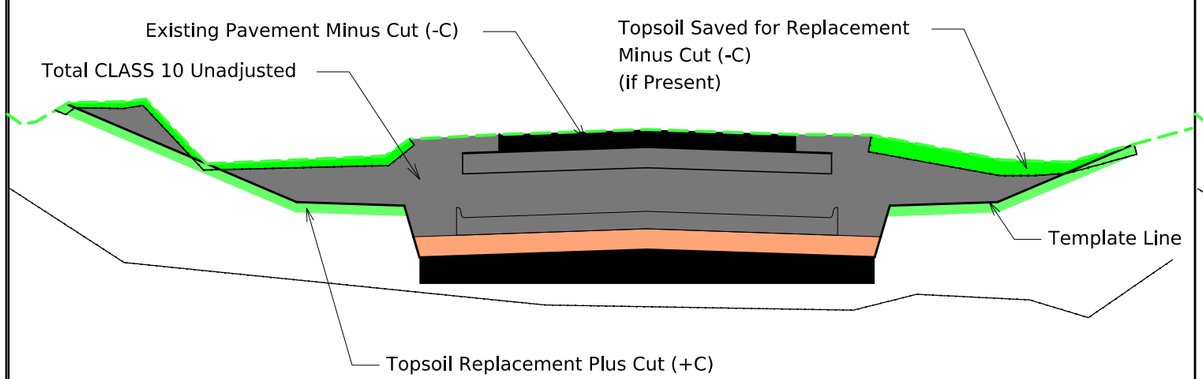
FILL SIDE Total Fill Adjusted — URBAN



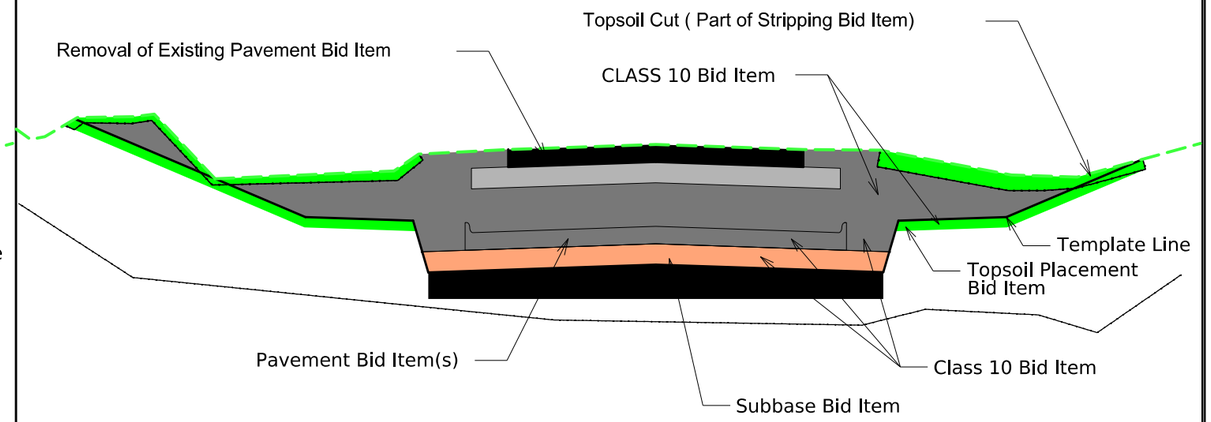
Notes:

1. "Total Fill Adjusted" Column includes all Class 10, 12, and 13 fill and adjustments for additional fill from cuts such as existing pavement, plowing and shaping operations, entrances, dikes, and topsoil stripping.
2. The available area to place unsuitable materials in the T Sheet tabulation does not include the undercut values from the topsoil stripping, existing pavement, or plowing and shaping.

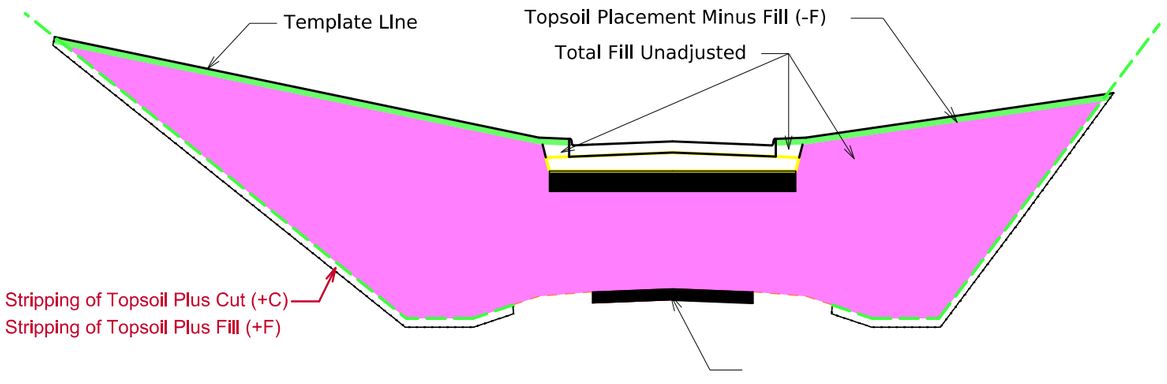
CUT SIDE (+/- Cuts) — URBAN



CUT SIDE (Bid Items) — URBAN



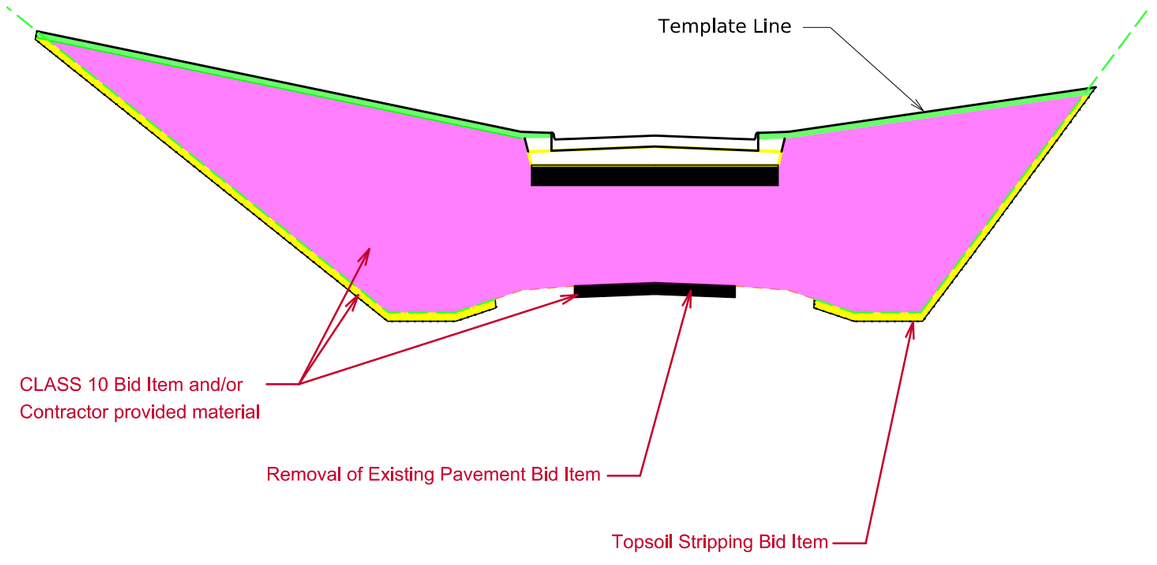
FILL SIDE (+/- Fills) — URBAN



Notes:

1. "Manually Calculated Cut Adjustments +C" columns are additional cut encountered that is not Typical, Topsoil, or Subgrade Treatment Based. (Entrance, Dike, Etc.)
2. "-C" columns are either soil types or Class 10, 12, or 13 designated material that is encountered in the cut station range that is paid for by other bid items.
3. The "(SoilType) Cut" columns are soil types encountered in the cut that are paid by either Class 10, 12 or 13.
4. The "Adjusted Clas (10,12 or 13)" columns are the sum of all various soil types encountered in that station range, that are paid by Class 10, 12, or 13 bid items.

FILL SIDE (Bid Items) — URBAN



FILE NO.	ENGLISH	DESIGN TEAM **Strum/Janus**	**CLAY** COUNTY	PROJECT NUMBER **HSIPX-018-2(142)--3H-21**	SHEET NUMBER **T.4**

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Refer to Standard Road Plans EW-101 and EW-102.

TABULATION OF TEMPLATE QUANTITIES AND ADJUSTMENTS

107-28
04-21-15

Station	Cut						Fill					Checks (EW-102)		Topsoil								
	[1]	[2]	[3]	[4]	[5]	[6]	[7]	[8]	[9]	[10]	[11]	[12]	[13]	[14]	[15]	[16]	[17]	[18]	[19]	[20]	[21]	[22]
	Total Cut Unadjusted Volume	Total Class 10 Unadjusted Volume	Topsoil Cut Volume	Template Pavement Removal Volume	Manually Calculated Cut Adjustments (+/- Cut)	Total Cut Adjusted	Total Fill Unadjusted Volume	Manually Calculated Fill Adjustments (+/- Fill)	Total Fill Adjusted	Total Fill Adjusted w/ Weighted Average 1.3 Shrink Factor	Total Cut Adjusted Minus Fill w/ Shrink	Approx. Fill Vol. Below 5' & Above 20' w/ Shrink	Approx. Fill Volume Below 3' w/ Shrink	Topsoil Stripping Undercut Volume	Topsoil Placement Undercut Volume	Topsoil Placement With 1.4 Shrink Factor	Topsoil Stripping Minus Topsoil Placement w/Shrink					
Stage 1																						
W37thSt																						
20076+68.70	86	86	0	0		86	0		0	0	86	0	0	0	0	0	0					
20077+00.00	89	89	0	0		89	0		0	0	89	0	0	0	0	0	0					
20077+50.00	93	93	0	0		93	0		0	0	93	0	0	0	0	0	0					
20078+00.00	83	83	0	0		83	0		0	0	83	0	0	0	0	0	0					
20078+50.00	74	74	0	0		74	0		0	0	75	0	0	0	0	0	0					
20079+00.00	76	76	0	0		76	0		0	0	76	0	0	0	0	0	0					
20079+50.00	76	76	0	0		76	0		0	0	76	0	0	0	0	0	0					
20080+00.00	88	88	0	0		88	0		0	0	88	0	0	0	0	0	0					
20080+50.00	99	99	0	0		99	0		0	0	99	0	0	0	0	0	0					
20081+00.00	226	226	0	0		226	0		0	0	226	0	0	0	0	0	0					
20081+50.00	34	34	0	0		34	0		0	0	34	0	0	0	0	0	0					
20081+54.86																						
W37thSt																						
Totals:	1,025	1,025	0	0	0	1,025	0	0	0	0	1,025	0	0	0	0	0	0					

#

FILE NO.		DESIGN TEAM Strum\Janus		Clay COUNTY	PROJECT NUMBER HSIPX-018-2(142)--3L-21	SHEET NUMBER T.5	

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Refer to Standard Road Plans EW-101 and EW-102.

TABULATION OF TEMPLATE QUANTITIES AND ADJUSTMENTS

107-28
04-21-15

Station	Cut						Fill					Checks (EW-102)		Topsoil								
	[1]	[2]	[3]	[4]	[5]	[6]	[7]	[8]	[9]	[10]	[11]	[12]	[13]	[14]	[15]	[16]	[17]	[18]	[19]	[20]	[21]	[22]
	Total Cut Unadjusted Volume	Total Class 10 Unadjusted Volume	Topsoil Cut Volume	Template Pavement Removal Volume	Manually Calculated Cut Adjustments (+/- Cut)	Total Cut Adjusted	Total Fill Unadjusted Volume	Manually Calculated Fill Adjustments (+/- Fill)	Total Fill Adjusted	Total Fill Adjusted w/ Weighted Average 1.3 Shrink Factor	Total Cut Adjusted Minus Fill w/ Shrink	Approx. Fill Vol. Below 5' & Above 20' w/ Shrink	Approx. Fill Volume Below 3' w/ Shrink	Topsoil Stripping Undercut Volume	Topsoil Placement Undercut Volume	Topsoil Placement With 1.4 Shrink Factor	Topsoil Stripping Minus Topsoil Placement w/Shrink					
W4thAve																						
19591+25.00																						
19591+50.00	14	14	0	0		14	2		2	3	11	0	0	0	0	0	0					
19592+00.00	35	35	0	0		35	6		6	8	27	0	0	0	0	0	0					
19592+50.00	62	62	0	0		62	4		4	6	56	0	0	0	0	0	0					
19593+00.00	57	57	0	0		57	4		4	6	52	0	0	0	0	0	0					
19593+50.00	41	41	0	0		41	3		3	3	38	0	0	0	0	0	0					
19594+00.00	46	46	0	0		46	0		0	0	46	0	0	0	0	0	0					
19594+50.00	50	50	0	0		50	0		0	0	50	0	0	0	0	0	0					
19595+00.00	53	53	0	0		53	0		0	0	53	0	0	0	0	0	0					
19595+50.00	54	54	0	0		54	0		0	0	54	0	0	0	0	0	0					
19596+00.00	55	55	0	0		55	0		0	0	55	0	0	0	0	0	0					
19596+50.00	57	57	0	0		57	0		0	0	57	0	0	0	0	0	0					
19597+00.00	65	65	0	0		65	0		0	0	65	0	0	0	0	0	0					
19597+50.00	69	69	0	0		69	0		0	0	69	0	0	0	0	0	0					
19598+00.00	68	68	0	0		68	0		0	0	68	0	0	0	0	0	0					
19598+50.00	71	71	0	0		71	0		0	0	71	0	0	0	0	0	0					
19599+00.00	66	66	0	0		66	0		0	0	67	0	0	0	0	0	0					
19599+50.00	60	60	0	0		60	0		0	0	60	0	0	0	0	0	0					
19600+00.00	59	59	0	0		59	0		0	0	59	0	0	0	0	0	0					
19600+50.00	55	55	0	0		55	0		0	0	55	0	0	0	0	0	0					
19601+00.00	53	53	0	0		53	0		0	0	53	0	0	0	0	0	0					
19601+50.00	62	62	0	0		62	0		0	0	62	0	0	0	0	0	0					
19602+00.00	69	69	0	0		69	0		0	0	69	0	0	0	0	0	0					
19602+50.00	64	64	0	0		64	0		0	0	64	0	0	0	0	0	0					
19603+00.00	61	61	0	0		61	0		0	0	61	0	0	0	0	0	0					
19603+50.00	61	61	0	0		61	0		0	0	61	0	0	0	0	0	0					
19604+00.00	56	56	0	0		56	0		0	0	56	0	0	0	0	0	0					
19604+50.00	53	53	0	0		53	0		0	0	53	0	0	0	0	0	0					
19605+00.00	60	60	0	0		60	0		0	0	60	0	0	0	0	0	0					
19605+50.00	62	62	0	0		62	0		0	0	62	0	0	0	0	0	0					
19606+00.00	57	57	0	0		57	0		0	0	57	0	0	0	0	0	0					
19606+50.00	47	47	0	0		47	0		0	0	47	0	0	0	0	0	0					
19607+00.00	44	44	0	0		44	0		0	0	44	0	0	0	0	0	0					
19607+50.00	48	48	0	0		48	0		0	0	48	0	0	0	0	0	0					
19608+00.00	61	61	0	0		61	0		0	0	61	0	0	0	0	0	0					
19608+50.00	77	77	0	0		77	0		0	0	77	0	0	0	0	0	0					
19609+00.00	81	81	0	0		81	0		0	0	81	0	0	0	0	0	0					
19609+50.00	82	82	0	0		82	0		0	0	82	0	0	0	0	0	0					
19610+00.00	81	81	0	0		81	0		0	0	81	0	0	0	0	0	0					
19610+50.00	57	57	0	0		57	0		0	0	57	0	0	0	0	0	0					
19611+00.00	39	39	0	0		39	0		0	0	39	0	0	0	0	0	0					
19611+50.00	37	37	0	0		37	0		0	0	37	0	0	0	0	0	0					
19612+00.00	32	32	0	0		32	0		0	0	32	0	0	0	0	0	0					
19612+03.48	2	2	0	0		2	0		0	0	2	0	0	0	0	0	0					
W4thAve																						
Totals:	2,382	2,382	0	0	0	2,382	20	0	20	26	2,358	0	0	0	0	0	0					

FILE NO.		DESIGN TEAM Strum\Janus	Clay COUNTY	PROJECT NUMBER HSIPX-018-2(142)--3L-21	SHEET NUMBER T.6	

Refer to Standard Road Plans EW-101 and EW-102.

TABULATION OF TEMPLATE QUANTITIES AND ADJUSTMENTS

107-28
04-21-15

Station	Cut						Fill					Checks (EW-102)		Topsoil								
	[1]	[2]	[3]	[4]	[5]	[6]	[7]	[8]	[9]	[10]	[11]	[12]	[13]	[14]	[15]	[16]	[17]	[18]	[19]	[20]	[21]	[22]
	Total Cut Unadjusted Volume	Total Class 10 Unadjusted Volume	Topsoil Cut Volume	Template Pavement Removal Volume	Manually Calculated Cut Adjustments (+/- Cut)	Total Cut Adjusted	Total Fill Unadjusted Volume	Manually Calculated Fill Adjustments (+/- Fill)	Total Fill Adjusted	Total Fill Adjusted w/ Weighted Average 1.3 Shrink Factor	Total Cut Adjusted Minus Fill w/ Shrink	Approx. Fill Vol. Below 5' & Above 20' w/ Shrink	Approx. Fill Volume Below 3' w/ Shrink	Topsoil Stripping Undercut Volume	Topsoil Placement Undercut Volume	Topsoil Placement With 1.4 Shrink Factor	Topsoil Stripping Minus Topsoil Placement w/Shrink					
W43rdSt																						
9609+44.46																						
9609+50.00	14	14	0	0		14	0		0	0	14	0	0	0	0	0	0					
9610+00.00	215	145	70	0		145	50		50	65	80	0	0	70	22	30	40					
9610+50.00	180	40	140	0		40	108		108	140	-100	0	0	140	43	61	79					
9611+00.00	167	28	139	0		28	139		139	181	-153	0	0	139	43	60	79					
9611+50.00	150	12	138	0		12	197		197	256	-244	0	0	138	42	59	79					
9612+00.00	148	7	141	0		7	256		256	333	-327	0	0	141	44	62	79					
9612+50.00	151	7	145	0		7	318		318	413	-406	0	0	145	47	65	79					
9613+00.00	157	7	151	0		7	381		381	496	-489	0	0	151	51	71	80					
9613+50.00	166	7	159	0		7	427		427	556	-548	0	0	159	56	78	80					
9614+00.00	173	9	164	0		9	459		459	597	-588	0	0	164	59	83	81					
9614+50.00	179	11	169	0		11	491		491	638	-628	0	0	169	63	88	81					
9615+00.00	179	8	172	0		8	550		550	716	-708	0	0	172	65	91	81					
9615+50.00	170	2	168	0		2	620		620	807	-805	0	0	168	62	87	81					
9616+00.00	168	0	168	0		0	635		635	825	-825	0	0	168	62	87	81					
9616+50.00	165	1	164	0		1	603		603	784	-784	0	0	164	64	90	75					
9617+00.00	153	3	151	0		3	557		557	725	-722	0	0	151	61	86	65					
9617+50.00	156	4	152	0		4	498		498	647	-643	0	0	152	58	81	71					
9618+00.00	159	2	157	0		2	455		455	592	-590	0	0	157	55	77	80					
9618+50.00	152	0	152	0		0	437		437	568	-568	0	0	152	52	72	80					
9619+00.00	149	0	149	0		0	417		417	542	-542	0	0	149	49	69	80					
9619+50.00	148	0	148	0		0	385		385	500	-500	0	0	148	49	69	79					
9620+00.00	155	4	151	0		4	350		350	455	-451	0	0	151	51	71	80					
9620+50.00	171	16	155	0		16	320		320	416	-400	0	0	155	54	75	80					
9621+00.00	191	32	159	0		32	290		290	377	-345	0	0	159	56	79	80					
9621+50.00	213	51	162	0		51	258		258	336	-285	0	0	162	59	82	80					
9622+00.00	238	72	166	0		72	224		224	291	-219	0	0	166	61	85	81					
9622+50.00	262	93	169	0		93	193		193	251	-159	0	0	169	63	88	81					
9623+00.00	272	102	170	0		102	180		180	234	-132	0	0	170	64	89	81					
9623+50.00	262	93	169	0		93	191		191	248	-155	0	0	169	63	88	81					
9624+00.00	242	76	166	0		76	212		212	276	-200	0	0	166	61	86	81					
9624+50.00	220	57	163	0		57	238		238	310	-253	0	0	163	59	82	81					
9625+00.00	191	33	158	0		33	280		280	364	-331	0	0	158	55	78	80					
9625+50.00	194	32	163	0	74	106	294	422	716	931	-826	0	0	163	49	69	94					
9626+00.00	500	212	287	0		212	504		504	656	-443	0	0	287	77	108	179					
9626+42.00	422	168	253	0		168	304		304	396	-227	0	0	253	46	65	189					
W43rdSt																						
Totals:	6,833	1,349	5,484	0	74	1,423	11,824	422	12,246	15,921	-14,500	0	0	5,484	1,864	2,611	2,875					

Refer to Standard Road Plans EW-101 and EW-102.

TABULATION OF TEMPLATE QUANTITIES AND ADJUSTMENTS

107-28
04-21-15

Station	Cut						Fill					Checks (EW-102)		Topsoil								
	[1]	[2]	[3]	[4]	[5]	[6]	[7]	[8]	[9]	[10]	[11]	[12]	[13]	[14]	[15]	[16]	[17]	[18]	[19]	[20]	[21]	[22]
	Total Cut Unadjusted Volume	Total Class 10 Unadjusted Volume	Topsoil Cut Volume	Template Pavement Removal Volume	Manually Calculated Cut Adjustments (+/- Cut)	Total Cut Adjusted	Total Fill Unadjusted Volume	Manually Calculated Fill Adjustments (+/- Fill)	Total Fill Adjusted	Total Fill Adjusted w/ Weighted Average 1.3 Shrink Factor	Total Cut Adjusted Minus Fill w/ Shrink	Approx. Fill Vol. Below 5' & Above 20' w/ Shrink	Approx. Fill Volume Below 3' w/ Shrink	Topsoil Stripping Undercut Volume	Topsoil Placement Undercut Volume	Topsoil Placement With 1.4 Shrink Factor	Topsoil Stripping Minus Topsoil Placement w/Shrink					
Ent2nd																						
24+30.00	0	0	0	0	130	130	0	16	16	21	109	0	0	0	0	0	0					
24+35.00																						
Ent2nd																						
Totals:	0	0	0	0	130	130	0	16	16	21	110	0	0	0	0	0	0					

FILE NO.		DESIGN TEAM **Strum\Janus**	**Clay** COUNTY	PROJECT NUMBER **HSIPX-018-2(142)--3L-21**	SHEET NUMBER **T.8**	

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Refer to Standard Road Plans EW-101 and EW-102.

TABULATION OF TEMPLATE QUANTITIES AND ADJUSTMENTS

107-28
04-21-15

	Cut						Fill					Checks (EW-102)		Topsoil								
	[1]	[2]	[3]	[4]	[5]	[6]	[7]	[8]	[9]	[10]	[11]	[12]	[13]	[14]	[15]	[16]	[17]	[18]	[19]	[20]	[21]	[22]
Station	Total Cut Unadjusted Volume	Total Class 10 Unadjusted Volume	Topsoil Cut Volume	Template Pavement Removal Volume	Manually Calculated Cut Adjustments (+/- Cut)	Total Cut Adjusted	Total Fill Unadjusted Volume	Manually Calculated Fill Adjustments (+/- Fill)	Total Fill Adjusted	Total Fill Adjusted w/ Weighted Average 1.3 Shrink Factor	Total Cut Adjusted Minus Fill w/ Shrink	Approx. Fill Vol. Below 5' & Above 20' w/ Shrink	Approx. Fill Volume Below 3' w/ Shrink	Topsoil Stripping Undercut Volume	Topsoil Placement Undercut Volume	Topsoil Placement With 1.4 Shrink Factor	Topsoil Stripping Minus Topsoil Placement w/Shrink					
Stage 2																						
320thSt																						
156+94.58	0	0	0	0		0	1		1	2	-2	0	0	0	0	0	0					
157+00.00	141	0	136	5		0	65		65	84	-84	0	0	136	0	0	136					
157+50.00	256	3	236	17		3	192		192	249	-247	0	0	236	44	62	174					
158+00.00	275	96	146	32		96	192		192	249	-153	0	0	146	76	107	40					
158+50.00	301	141	121	39		141	119		119	155	-14	0	0	121	58	81	40					
159+00.00	259	61	158	39		61	183		183	238	-177	0	0	158	51	72	86					
159+50.00	244	43	165	37		43	229		229	298	-255	0	0	165	53	75	90					
160+00.00	272	80	156	37		80	229		229	298	-218	0	0	156	55	77	78					
160+50.00	299	110	147	43		110	213		213	277	-168	0	0	147	55	76	70					
161+00.00	321	126	144	51		126	185		185	240	-114	0	0	144	54	76	68					
161+50.00	328	131	141	55		131	162		162	210	-79	0	0	141	52	73	68					
162+00.00	312	121	136	55		121	136		136	176	-55	0	0	136	48	67	69					
162+50.00	297	108	135	55		108	101		101	132	-24	0	0	135	46	64	70					
163+00.00	283	109	124	50		109	65		65	84	25	0	0	124	37	52	72					
163+50.00	243	104	94	45		104	27		27	36	69	0	0	94	28	39	55					
164+00.00	134	47	65	22	7	54	10	120	130	169	-115	0	0	65	27	38	28					
164+50.00	95	41	54	0		41	9		9	12	29	0	0	54	27	38	17					
165+00.00	92	40	53	0		40	12		12	15	24	0	0	53	26	36	17					
165+50.00	10	0	10	0		0	4		4	5	-5	0	0	10	5	7	3					
165+60.00																						
320thSt																						
Totals:	4,162	1,361	2,221	581	7	1,368	2,134	120	2,254	2,931	-1,564	0	0	2,221	743	1,041	1,181					

FILE NO.		DESIGN TEAM Strum\Janus	Clay COUNTY	PROJECT NUMBER HSIPX-018-2(142)--3L-21	SHEET NUMBER T.9	

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Refer to Standard Road Plans EW-101 and EW-102.

TABULATION OF TEMPLATE QUANTITIES AND ADJUSTMENTS

107-28
04-21-15

Station	Cut						Fill					Checks (EW-102)		Topsoil								
	[1]	[2]	[3]	[4]	[5]	[6]	[7]	[8]	[9]	[10]	[11]	[12]	[13]	[14]	[15]	[16]	[17]	[18]	[19]	[20]	[21]	[22]
	Total Cut Unadjusted Volume	Total Class 10 Unadjusted Volume	Topsoil Cut Volume	Template Pavement Removal Volume	Manually Calculated Cut Adjustments (+/- Cut)	Total Cut Adjusted	Total Fill Unadjusted Volume	Manually Calculated Fill Adjustments (+/- Fill)	Total Fill Adjusted	Total Fill Adjusted w/ Weighted Average 1.3 Shrink Factor	Total Cut Adjusted Minus Fill w/ Shrink	Approx. Fill Vol. Below 5' & Above 20' w/ Shrink	Approx. Fill Volume Below 3' w/ Shrink	Topsoil Stripping Undercut Volume	Topsoil Placement Undercut Volume	Topsoil Placement With 1.4 Shrink Factor	Topsoil Stripping Minus Topsoil Placement w/Shrink					
US71NB_DET300																						
51+47.09																						
51+50.00	18	11	3	4		11	1		1	1	10	0	0	3	2	3	1					
52+00.00	376	206	102	68		206	3		3	4	202	0	0	102	59	82	20					
52+50.00	367	163	130	74		163	3		3	4	159	0	0	130	66	92	39					
53+00.00	334	146	112	76		146	3		3	4	142	0	0	112	51	71	41					
53+50.00	329	149	104	76		149	5		5	7	141	0	0	104	40	56	48					
54+00.00	348	162	111	76		162	16		16	21	140	0	0	111	36	50	60					
54+50.00	373	179	117	76		179	40		40	52	128	0	0	117	33	46	71					
55+00.00	354	167	111	76		167	98		98	127	40	0	0	111	35	49	62					
55+50.00	282	88	117	77		88	129		129	167	-79	0	0	117	31	43	74					
56+00.00	180	18	113	49		18	190		190	247	-229	0	0	113	21	29	83					
56+50.00	134	2	97	34		2	257		257	335	-333	0	0	97	9	13	85					
57+00.00	102	0	51	51		0	268		268	349	-349	0	0	51	0	0	51					
57+50.00	106	0	79	27		0	453		453	589	-589	0	0	79	10	14	65					
58+00.00	160	0	142	18		0	451		451	587	-586	0	0	142	14	20	122					
58+50.00	164	0	125	39		0	249		249	324	-324	0	0	125	8	11	114					
59+00.00	187	2	128	56		2	258		258	335	-333	0	0	128	19	27	101					
59+50.00	234	22	132	79		22	236		236	307	-285	0	0	132	29	41	92					
60+00.00	259	57	131	71		57	138		138	179	-123	0	0	131	28	40	92					
60+50.00	272	86	132	54		86	91		91	118	-32	0	0	132	32	45	87					
61+00.00	285	97	135	54		97	68		68	89	8	0	0	135	38	53	82					
61+50.00	273	83	136	54		83	54		54	71	13	0	0	136	44	61	75					
62+00.00	293	99	140	54		99	47		47	62	38	0	0	140	53	75	66					
62+50.00	319	131	134	54		131	30		30	39	93	0	0	134	55	77	57					
63+00.00	309	131	124	54		131	19		19	25	106	0	0	124	50	71	54					
63+27.23	150	66	55	29		66	13		13	17	49	0	0	55	23	32	22					
US71NB_DET300																						
Totals:	6,207	2,068	2,762	1,378	0	2,068	3,121	0	3,121	4,058	-1,991	0	0	2,762	786	1,101	1,663					

Refer to Standard Road Plans EW-101 and EW-102.

TABULATION OF TEMPLATE QUANTITIES AND ADJUSTMENTS

107-28
04-21-15

Station	Cut						Fill					Checks (EW-102)		Topsoil								
	[1]	[2]	[3]	[4]	[5]	[6]	[7]	[8]	[9]	[10]	[11]	[12]	[13]	[14]	[15]	[16]	[17]	[18]	[19]	[20]	[21]	[22]
	Total Cut Unadjusted Volume	Total Class 10 Unadjusted Volume	Topsoil Cut Volume	Template Pavement Removal Volume	Manually Calculated Cut Adjustments (+/- Cut)	Total Cut Adjusted	Total Fill Unadjusted Volume	Manually Calculated Fill Adjustments (+/- Fill)	Total Fill Adjusted	Total Fill Adjusted w/ Weighted Average 1.3 Shrink Factor	Total Cut Adjusted Minus Fill w/ Shrink	Approx. Fill Vol. Below 5' & Above 20' w/ Shrink	Approx. Fill Volume Below 3' w/ Shrink	Topsoil Stripping Undercut Volume	Topsoil Placement Undercut Volume	Topsoil Placement With 1.4 Shrink Factor	Topsoil Stripping Minus Topsoil Placement w/Shrink					
Stage 3																						
US18																						
628+11.46	243	160	83	0		160	0		0	0	160	0	0	83	37	52	30					
628+50.00	164	73	91	0		73	5		5	7	67	0	0	91	38	53	38					
629+00.00	281	129	124	28		129	6		6	8	121	0	0	124	53	75	50					
629+50.00	528	304	162	63		304	2		2	2	302	0	0	162	80	112	50					
630+00.00	422	206	154	62		206	45		45	58	148	0	0	154	70	98	56					
630+50.00	266	50	161	55		50	106		106	138	-88	0	0	161	57	80	82					
631+00.00	306	74	176	56		74	132		132	171	-97	0	0	176	58	81	96					
631+50.00	347	103	187	57		103	134		134	175	-71	0	0	187	60	83	104					
632+00.00	385	130	197	57		130	132		132	172	-42	0	0	197	77	108	90					
632+50.00	452	157	226	69		157	179		179	233	-76	0	0	226	105	147	79					
633+00.00	431	111	233	87		111	321		321	418	-307	0	0	233	114	160	73					
633+50.00	117	16	71	31		16	137		137	179	-163	0	0	71	35	50	21					
633+82.67																						
US18																						
Totals:	3,942	1,513	1,865	564	0	1,513	1,199	0	1,199	1,559	-46	0	0	1,865	783	1,098	768					

FILE NO.		DESIGN TEAM Strum\Janus	Clay COUNTY	PROJECT NUMBER HSIPX-018-2(142)--3L-21	SHEET NUMBER T.11	

Refer to Standard Road Plans EW-101 and EW-102.

TABULATION OF TEMPLATE QUANTITIES AND ADJUSTMENTS

107-28
04-21-15

Station	Cut						Fill					Checks (EW-102)		Topsoil								
	[1]	[2]	[3]	[4]	[5]	[6]	[7]	[8]	[9]	[10]	[11]	[12]	[13]	[14]	[15]	[16]	[17]	[18]	[19]	[20]	[21]	[22]
	Total Cut Unadjusted Volume	Total Class 10 Unadjusted Volume	Topsoil Cut Volume	Template Pavement Removal Volume	Manually Calculated Cut Adjustments (+/- Cut)	Total Cut Adjusted	Total Fill Unadjusted Volume	Manually Calculated Fill Adjustments (+/- Fill)	Total Fill Adjusted	Total Fill Adjusted w/ Weighted Average 1.3 Shrink Factor	Total Cut Adjusted Minus Fill w/ Shrink	Approx. Fill Vol. Below 5' & Above 20' w/ Shrink	Approx. Fill Volume Below 3' w/ Shrink	Topsoil Stripping Undercut Volume	Topsoil Placement Undercut Volume	Topsoil Placement With 1.4 Shrink Factor	Topsoil Stripping Minus Topsoil Placement w/Shrink					
US71SB																						
93+21.62	44	7	34	3		7	11		11	15	-8	0	0	34	0	0	34					
93+50.00	84	13	66	5		13	33		33	43	-30	0	0	66	0	0	66					
94+00.00	89	14	68	7		14	43		43	56	-42	0	0	68	0	0	69					
94+50.00	92	17	66	9		17	44		44	57	-40	0	0	66	0	0	66					
95+00.00	96	21	63	12		21	40		40	53	-31	0	0	63	0	0	63					
95+50.00	98	27	54	16		27	33		33	43	-16	0	0	54	0	0	55					
96+00.00	98	33	45	20		33	25		25	32	1	0	0	45	0	0	45					
96+50.00	101	39	39	23		39	18		18	23	15	0	0	39	0	0	40					
97+00.00	105	42	37	25		42	13		13	16	26	0	0	37	0	0	37					
97+50.00	107	45	35	27		45	9		9	12	33	0	0	35	0	0	35					
98+00.00	109	46	35	28		46	9		9	11	35	0	0	35	0	0	35					
98+50.00	111	46	37	28		46	10		10	14	33	0	0	37	0	0	37					
99+00.00	112	46	38	28		46	12		12	16	30	0	0	38	0	0	38					
99+50.00	112	46	39	27		46	12		12	16	31	0	0	39	0	0	39					
100+00.00	115	48	40	27		48	10		10	13	35	0	0	40	0	0	40					
100+50.00	129	52	50	28		52	7		7	9	43	0	0	50	0	0	50					
101+00.00	140	58	54	28		58	3		3	4	54	0	0	54	0	0	54					
101+50.00	144	66	49	29		66	0		0	1	66	0	0	49	0	0	49					
102+00.00	150	75	46	29		75	0		0	1	74	0	0	46	0	0	46					
102+50.00	148	76	43	30		76	0		0	0	76	0	0	43	0	0	43					
103+00.00	109	56	31	23		56	0		0	0	56	0	0	31	0	0	31					
50+00.00	140	70	39	30		70	0		0	1	69	0	0	39	0	0	40					
50+50.00	155	81	43	31		81	0		0	1	81	0	0	43	0	0	43					
51+00.00	158	85	42	32		85	0		0	1	85	0	0	42	0	0	42					
51+50.00	133	68	34	32		68	1		1	1	67	0	0	34	0	0	34					
52+00.00	118	59	27	32		59	1		1	1	58	0	0	27	0	0	27					
52+50.00	109	54	23	32		54	2		2	3	51	0	0	23	0	0	24					
53+00.00	126	62	33	32		62	10		10	13	49	0	0	33	0	0	33					
53+50.00	247	108	83	56		108	45		45	59	49	0	0	83	6	9	74					
54+00.00	346	137	129	80		137	116		116	151	-14	0	0	129	15	21	108					
54+50.00	269	91	106	72		91	200		200	261	-169	0	0	106	19	27	80					
55+00.00	238	72	97	70		72	236		236	307	-235	0	0	97	44	61	36					
55+50.00	281	81	140	60		81	281		281	365	-284	0	0	140	72	101	39					
56+00.00	179	35	91	52		35	270		270	350	-315	0	0	91	39	55	37					
56+50.00	65	0	9	56		0	282		282	367	-366	0	0	9	12	17	-8					
57+00.00	59	0	31	28		0	304		304	395	-395	0	0	31	12	17	14					
57+50.00	84	1	66	18		1	392		392	509	-509	0	0	66	26	37	29					
58+00.00	279	110	105	64		110	515		515	670	-560	0	0	105	79	111	-6					
58+50.00	485	232	155	98		232	368		368	478	-246	0	0	155	112	158	-3					
59+00.00	565	295	170	100		295	194		194	253	43	0	0	170	102	143	27					
59+50.00	634	349	152	133		349	121		121	157	192	0	0	152	85	120	33					
60+00.00	645	363	123	160		363	77		77	100	263	0	0	123	88	123	-1					
60+50.00	630	360	117	153		360	49		49	64	297	0	0	117	91	127	-10					
61+00.00	604	332	126	146		332	27		27	35	297	0	0	126	89	124	2					
61+50.00	560	296	125	139		296	18		18	24	272	0	0	125	67	94	31					
62+00.00	509	256	120	132		256	20		20	26	230	0	0	120	47	66	54					
62+50.00	418	196	119	103		196	38		38	49	147	0	0	119	52	72	47					
63+00.00	333	143	120	70		143	66		66	85	58	0	0	120	54	76	44					
63+50.00	303	117	128	59		117	84		84	110	7	0	0	128	50	69	58					
64+00.00	280	96	134	51		96	91		91	119	-23	0	0	134	49	69	65					
64+50.00	199	68	90	41		68	44		44	58	11	0	0	90	26	36	54					
65+00.00	122	45	45	32		45	0		0	0	44	0	0	45	0	0	45					
65+50.00	116	39	48	28		39	0		0	1	39	0	0	48	0	0	48					
66+00.00	107	31	53	24		31	9		9	12	18	0	0	53	0	0	53					
66+50.00	101	22	60	18		22	13		13	16	6	0	0	60	0	0	60					
67+00.00	99	18	69	12		18	10		10	13	5	0	0	69	0	0	69					
67+50.00	98	53	42	3		53	8		8	10	43	0	0	42	0	0	42					
67+85.43																						
US71SB																						
Totals:	12,090	5,300	4,066	2,726	0	5,300	4,227	0	4,227	5,498	-198	0	0	4,066	1,237	1,733	2,336					

FILE NO.		DESIGN TEAM Strum\Janus	Clay COUNTY	PROJECT NUMBER HSIPX-018-2(142)--3L-21	SHEET NUMBER T.12	

Refer to Standard Road Plans EW-101 and EW-102.

TABULATION OF TEMPLATE QUANTITIES AND ADJUSTMENTS

107-28
04-21-15

Station	Cut						Fill					Checks (EW-102)		Topsoil								
	[1]	[2]	[3]	[4]	[5]	[6]	[7]	[8]	[9]	[10]	[11]	[12]	[13]	[14]	[15]	[16]	[17]	[18]	[19]	[20]	[21]	[22]
	Total Cut Unadjusted Volume	Total Class 10 Unadjusted Volume	Topsoil Cut Volume	Template Pavement Removal Volume	Manually Calculated Cut Adjustments (+/- Cut)	Total Cut Adjusted	Total Fill Unadjusted Volume	Manually Calculated Fill Adjustments (+/- Fill)	Total Fill Adjusted	Total Fill Adjusted w/ Weighted Average 1.3 Shrink Factor	Total Cut Adjusted Minus Fill w/ Shrink	Approx. Fill Vol. Below 5' & Above 20' w/ Shrink	Approx. Fill Volume Below 3' w/ Shrink	Topsoil Stripping Undercut Volume	Topsoil Placement Undercut Volume	Topsoil Placement With 1.4 Shrink Factor	Topsoil Stripping Minus Topsoil Placement w/Shrink					
TrailRemoval																						
+00.00	0	0	0	0		0	0		0	0	0	0	0	0	0	0	0					
+00.00																						
TrailRemoval																						
Totals:	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					

FILE NO.		DESIGN TEAM **Strum\Janus**	**Clay** COUNTY	PROJECT NUMBER **HSIPX-018-2(142)--3L-21**	SHEET NUMBER **T.13**	

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Refer to Standard Road Plans EW-101 and EW-102.

TABULATION OF TEMPLATE QUANTITIES AND ADJUSTMENTS

107-28
04-21-15

Station	Cut						Fill					Checks (EW-102)		Topsoil								
	[1]	[2]	[3]	[4]	[5]	[6]	[7]	[8]	[9]	[10]	[11]	[12]	[13]	[14]	[15]	[16]	[17]	[18]	[19]	[20]	[21]	[22]
	Total Cut Unadjusted Volume	Total Class 10 Unadjusted Volume	Topsoil Cut Volume	Template Pavement Removal Volume	Manually Calculated Cut Adjustments (+/- Cut)	Total Cut Adjusted	Total Fill Unadjusted Volume	Manually Calculated Fill Adjustments (+/- Fill)	Total Fill Adjusted	Total Fill Adjusted w/ Weighted Average 1.3 Shrink Factor	Total Cut Adjusted Minus Fill w/ Shrink	Approx. Fill Vol. Below 5' & Above 20' w/ Shrink	Approx. Fill Volume Below 3' w/ Shrink	Topsoil Stripping Undercut Volume	Topsoil Placement Undercut Volume	Topsoil Placement With 1.4 Shrink Factor	Topsoil Stripping Minus Topsoil Placement w/Shrink					
Stage 4																						
SUR071NB																						
51+47.09	2	1	1	0		1	2		2	2	-1	0	0	1	0	1	0					
51+50.00	59	35	19	5		35	51		51	67	-32	0	0	19	20	28	-10					
52+00.00	75	52	15	9		52	39		39	51	1	0	0	15	32	44	-30					
52+50.00	85	56	13	16		56	21		21	27	29	0	0	13	24	34	-20					
53+00.00	121	78	15	28		78	5		5	6	72	0	0	15	23	33	-18					
53+50.00	177	121	15	42		121	0		0	0	121	0	0	15	32	45	-31					
54+00.00	239	173	15	51		173	5		5	6	167	0	0	15	48	68	-53					
54+50.00	317	248	12	56		248	10		10	13	236	0	0	12	69	96	-84					
55+00.00	378	306	11	61		306	15		15	19	287	0	0	11	91	127	-116					
55+50.00	444	368	9	67		368	27		27	35	334	0	0	9	113	158	-149					
56+00.00	249	210	3	36		210	17		17	22	187	0	0	3	60	85	-82					
56+50.00	44	26	0	18		26	10		10	13	12	0	0	0	1	1	-1					
57+00.00	134	91	6	37		91	19		19	24	67	0	0	6	33	46	-40					
57+50.00	230	177	10	42		177	17		17	22	156	0	0	10	59	83	-73					
58+00.00	287	229	8	50		229	17		17	23	206	0	0	8	55	77	-69					
58+50.00	297	232	7	58		232	9		9	12	220	0	0	7	46	64	-57					
59+00.00	276	207	12	57		207	3		3	5	203	0	0	12	38	54	-42					
59+50.00	220	155	17	47		155	5		5	7	148	0	0	17	38	53	-36					
60+00.00	161	105	19	36		105	2		2	3	103	0	0	19	30	42	-23					
60+50.00	123	74	22	27		74	0		0	0	74	0	0	22	26	37	-14					
61+00.00	104	58	28	19		58	1		1	1	57	0	0	28	27	37	-9					
61+50.00	86	47	26	13		47	31		31	40	7	0	0	26	27	38	-12					
62+00.00	72	43	22	8		43	65		65	84	-42	0	0	22	27	38	-17					
62+50.00	65	38	21	5		38	69		69	90	-51	0	0	21	27	38	-17					
63+00.00	36	29	6	1		29	19		19	24	5	0	0	6	15	21	-15					
63+27.23																						
SUR071NB																						
Totals:	4,281	3,160	330	791	0	3,160	458	0	458	596	2,565	0	0	330	961	1,347	-1,018					

FILE NO.		DESIGN TEAM Strum\Janus	Clay COUNTY	PROJECT NUMBER HSIPX-018-2(142)--3L-21	SHEET NUMBER T.14

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Refer to Standard Road Plans EW-101 and EW-102.

TABULATION OF TEMPLATE QUANTITIES AND ADJUSTMENTS

107-28
04-21-15

Station	Cut						Fill					Checks (EW-102)		Topsoil								
	[1]	[2]	[3]	[4]	[5]	[6]	[7]	[8]	[9]	[10]	[11]	[12]	[13]	[14]	[15]	[16]	[17]	[18]	[19]	[20]	[21]	[22]
	Total Cut Unadjusted Volume	Total Class 10 Unadjusted Volume	Topsoil Cut Volume	Template Pavement Removal Volume	Manually Calculated Cut Adjustments (+/- Cut)	Total Cut Adjusted	Total Fill Unadjusted Volume	Manually Calculated Fill Adjustments (+/- Fill)	Total Fill Adjusted	Total Fill Adjusted w/ Weighted Average 1.3 Shrink Factor	Total Cut Adjusted Minus Fill w/ Shrink	Approx. Fill Vol. Below 5' & Above 20' w/ Shrink	Approx. Fill Volume Below 3' w/ Shrink	Topsoil Stripping Undercut Volume	Topsoil Placement Undercut Volume	Topsoil Placement With 1.4 Shrink Factor	Topsoil Stripping Minus Topsoil Placement w/Shrink					
Stage 5																						
DET100removal																						
84+64.63	49	46	0	3		46	0		0	0	46	0	0	0	8	11	-11					
85+00.00	72	63	0	9		63	0		0	0	63	0	0	0	14	19	-19					
85+50.00	73	61	3	9		61	0		0	0	61	0	0	3	17	24	-21					
86+00.00	72	58	4	10		58	2		2	2	55	0	0	4	21	29	-25					
86+50.00	71	56	2	13		56	3		3	3	53	0	0	2	23	32	-30					
87+00.00	76	55	3	18		55	1		1	2	54	0	0	3	20	27	-25					
87+50.00	124	90	6	28		90	0		0	0	90	0	0	6	22	31	-25					
88+00.00	184	135	7	42		135	0		0	0	134	0	0	7	28	40	-33					
88+50.00	226	163	5	58		163	0		0	0	163	0	0	5	29	41	-36					
89+00.00	284	201	3	79		201	0		0	0	202	0	0	3	30	43	-39					
89+50.00	314	222	0	93		222	0		0	0	222	0	0	0	31	44	-44					
90+00.00	316	222	0	94		222	0		0	0	222	0	0	0	32	45	-45					
90+50.00	321	225	0	95		225	0		0	0	226	0	0	0	33	47	-47					
91+00.00	302	215	3	84		215	0		0	0	215	0	0	3	34	48	-45					
91+50.00	259	190	5	64		190	0		0	0	190	0	0	5	36	50	-44					
92+00.00	229	175	5	50		175	0		0	0	175	0	0	5	37	51	-47					
92+50.00	213	170	6	38		170	0		0	0	170	0	0	6	38	53	-47					
93+00.00	194	161	5	28		161	0		0	0	161	0	0	5	39	54	-50					
93+50.00	175	151	2	22		151	0		0	0	151	0	0	2	40	56	-53					
94+00.00	168	148	1	19		148	0		0	0	148	0	0	1	41	57	-56					
94+50.00	169	151	0	19		151	0		0	0	151	0	0	0	42	58	-58					
95+00.00	129	115	0	14		115	0		0	0	115	0	0	0	29	41	-41					
95+50.00	67	63	0	4		63	0		0	0	63	0	0	0	12	18	-18					
95+90.88																						
DET100removal																						
Totals:	4,087	3,134	59	893	0	3,134	6	0	6	9	3,128	0	0	59	655	919	-860					

FILE NO.		DESIGN TEAM Strum\Janus		Clay COUNTY	PROJECT NUMBER HSIPX-018-2(142)--3L-21	SHEET NUMBER T.15	

5/29/2026 11:45:28 AM ajanus2 c:\pw_work\pwmain\ajanus2\d2041003\SHT_21018142_T01.xlsm

Refer to Standard Road Plans EW-101 and EW-102.

TABULATION OF TEMPLATE QUANTITIES AND ADJUSTMENTS

107-28
04-21-15

Station	Cut						Fill					Checks (EW-102)		Topsoil								
	[1]	[2]	[3]	[4]	[5]	[6]	[7]	[8]	[9]	[10]	[11]	[12]	[13]	[14]	[15]	[16]	[17]	[18]	[19]	[20]	[21]	[22]
	Total Cut Unadjusted Volume	Total Class 10 Unadjusted Volume	Topsoil Cut Volume	Template Pavement Removal Volume	Manually Calculated Cut Adjustments (+/- Cut)	Total Cut Adjusted	Total Fill Unadjusted Volume	Manually Calculated Fill Adjustments (+/- Fill)	Total Fill Adjusted	Total Fill Adjusted w/ Weighted Average 1.3 Shrink Factor	Total Cut Adjusted Minus Fill w/ Shrink	Approx. Fill Vol. Below 5' & Above 20' w/ Shrink	Approx. Fill Volume Below 3' w/ Shrink	Topsoil Stripping Undercut Volume	Topsoil Placement Undercut Volume	Topsoil Placement With 1.4 Shrink Factor	Topsoil Stripping Minus Topsoil Placement w/Shrink					
DET200removal																						
63+42.80	14	14	0	1		14	0		0	0	14	0	0	0	2	3	-3					
63+50.00	173	164	1	9		164	0		0	0	164	0	0	1	24	34	-33					
64+00.00	165	150	1	13		150	0		0	0	150	0	0	1	23	32	-30					
64+50.00	168	145	1	22		145	0		0	0	145	0	0	1	24	33	-32					
65+00.00	181	156	1	24		156	0		0	0	156	0	0	1	26	36	-35					
65+50.00	205	182	1	22		182	0		0	0	182	0	0	1	29	41	-40					
66+00.00	228	204	1	22		204	0		0	0	204	0	0	1	35	50	-49					
66+50.00	252	226	3	22		226	0		0	0	226	0	0	3	43	60	-57					
67+00.00	267	240	5	22		240	1		1	1	239	0	0	5	49	69	-64					
67+50.00	252	224	6	22		224	1		1	1	223	0	0	6	49	68	-62					
68+00.00	209	180	7	22		180	1		1	1	179	0	0	7	45	63	-56					
68+50.00	154	125	6	23		125	3		3	4	121	0	0	6	40	56	-50					
69+00.00	105	81	5	20		81	3		3	4	77	0	0	5	34	48	-43					
69+50.00	80	62	3	15		62	2		2	3	59	0	0	3	33	47	-44					
70+00.00	91	70	3	18		70	1		1	2	69	0	0	3	33	47	-44					
70+50.00	130	98	4	27		98	1		1	1	98	0	0	4	33	46	-42					
71+00.00	177	141	4	32		141	0		0	1	141	0	0	4	32	45	-42					
71+50.00	217	188	3	27		188	0		0	0	188	0	0	3	39	55	-52					
72+00.00	232	206	3	23		206	0		0	0	206	0	0	3	50	71	-68					
72+50.00	222	195	4	23		195	0		0	0	195	0	0	4	59	83	-79					
73+00.00	174	146	5	24		146	0		0	0	146	0	0	5	44	61	-56					
73+50.00	111	87	4	20		87	1		1	1	87	0	0	4	23	32	-29					
74+00.00	79	65	2	12		65	1		1	1	64	0	0	2	24	33	-32					
74+50.00	74	65	0	9		65	0		0	0	65	0	0	0	24	34	-34					
75+00.00	75	66	1	9		66	0		0	0	66	0	0	1	12	17	-16					
75+50.00	3	2	0	0		2	0		0	0	2	0	0	0	0	0	0					
75+52.37																						
DET200removal Totals:	4,039	3,483	74	484	0	3,483	14	0	14	19	3,465	0	0	74	830	1,164	-1,092					

FILE NO.		DESIGN TEAM Strum\Janus	Clay COUNTY	PROJECT NUMBER HSIPX-018-2(142)--3L-21	SHEET NUMBER T.16	

Refer to Standard Road Plans EW-101 and EW-102.

TABULATION OF TEMPLATE QUANTITIES AND ADJUSTMENTS

107-28
04-21-15

Station	Cut						Fill					Checks (EW-102)		Topsoil								
	[1]	[2]	[3]	[4]	[5]	[6]	[7]	[8]	[9]	[10]	[11]	[12]	[13]	[14]	[15]	[16]	[17]	[18]	[19]	[20]	[21]	[22]
	Total Cut Unadjusted Volume	Total Class 10 Unadjusted Volume	Topsoil Cut Volume	Template Pavement Removal Volume	Manually Calculated Cut Adjustments (+/- Cut)	Total Cut Adjusted	Total Fill Unadjusted Volume	Manually Calculated Fill Adjustments (+/- Fill)	Total Fill Adjusted	Total Fill Adjusted w/ Weighted Average 1.3 Shrink Factor	Total Cut Adjusted Minus Fill w/ Shrink	Approx. Fill Vol. Below 5' & Above 20' w/ Shrink	Approx. Fill Volume Below 3' w/ Shrink	Topsoil Stripping Undercut Volume	Topsoil Placement Undercut Volume	Topsoil Placement With 1.4 Shrink Factor	Topsoil Stripping Minus Topsoil Placement w/Shrink					
Summary:																						
Stage 1																						
W37thSt	1,025	1,025	0	0	0	1,025	0	0	0	0	1,025	0	0	0	0	0	0					
W4thAve	2,382	2,382	0	0	0	2,382	20	0	20	26	2,358	0	0	0	0	0	0					
W43rdSt	6,833	1,349	5,484	0	74	1,423	11,824	422	12,246	15,921	-14,500	0	0	5,484	1,864	2,611	2,875					
Ent2nd	0	0	0	0	130	130	0	16	16	21	110	0	0	0	0	0	0					
Stage 1 Subtotals:	10,240	4,756	5,484	0	204	4,960	11,844	438	12,282	15,968	-11,007	0	0	5,484	1,864	2,611	2,875					
Stage 2																						
320thSt	4,163	1,361	2,222	581	7	1,368	2,134	120	2,254	2,931	-1,564	0	0	2,222	743	1,041	1,182					
US71NB_DET300	6,207	2,068	2,762	1,378	0	2,068	3,121	0	3,121	4,058	-1,991	0	0	2,762	786	1,101	1,663					
Stage 2 Subtotals:	10,370	3,429	4,984	1,959	7	3,436	5,255	120	5,375	6,989	-3,555	0	0	4,984	1,529	2,142	2,845					
Stage 3																						
US18	3,942	1,513	1,865	565	0	1,513	1,200	0	1,200	1,560	-47	0	0	1,865	784	1,098	768					
US71SB	12,090	5,300	4,066	2,726	0	5,300	4,227	0	4,227	5,498	-198	0	0	4,066	1,237	1,733	2,336					
TrailRemoval	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
Stage 3 Subtotals:	16,032	6,813	5,931	3,291	0	6,813	5,427	0	5,427	7,058	-245	0	0	5,931	2,021	2,831	3,104					
Stage 4																						
SUR071NB	4,282	3,161	331	792	0	3,161	458	0	458	597	2,565	0	0	331	962	1,347	-1,018					
Stage 4 Subtotals:	4,282	3,161	331	792	0	3,161	458	0	458	597	2,565	0	0	331	962	1,347	-1,018					
Stage 5																						
DET100removal	4,088	3,135	60	894	0	3,135	7	0	7	9	3,128	0	0	60	656	919	-861					
DET200removal	4,039	3,483	74	484	0	3,483	14	0	14	19	3,465	0	0	74	830	1,164	-1,092					
Stage 5 Subtotals:	8,127	6,618	134	1,378	0	6,618	21	0	21	28	6,593	0	0	134	1,486	2,083	-1,953					
Project Totals:	49,051	24,777	16,864	7,420	211	24,988	23,005	558	23,563	30,640	-5,649	0	0	16,864	7,862	11,014	5,853					

Excavation Class 10 Roadway and Borrow

Stage 1	4,960
Stage 2	3,436
Stage 3	6,813
Stage 4	597
Stage 5	28
TOTAL:	**15,834**

Compaction with Moisture control

Stage 1	12,282
Stage 2	5,375
Stage 3	5,427
Stage 4	458
Stage 5	21
TOTAL:	23,563

Topsoil, Strip, Salvage and Spread

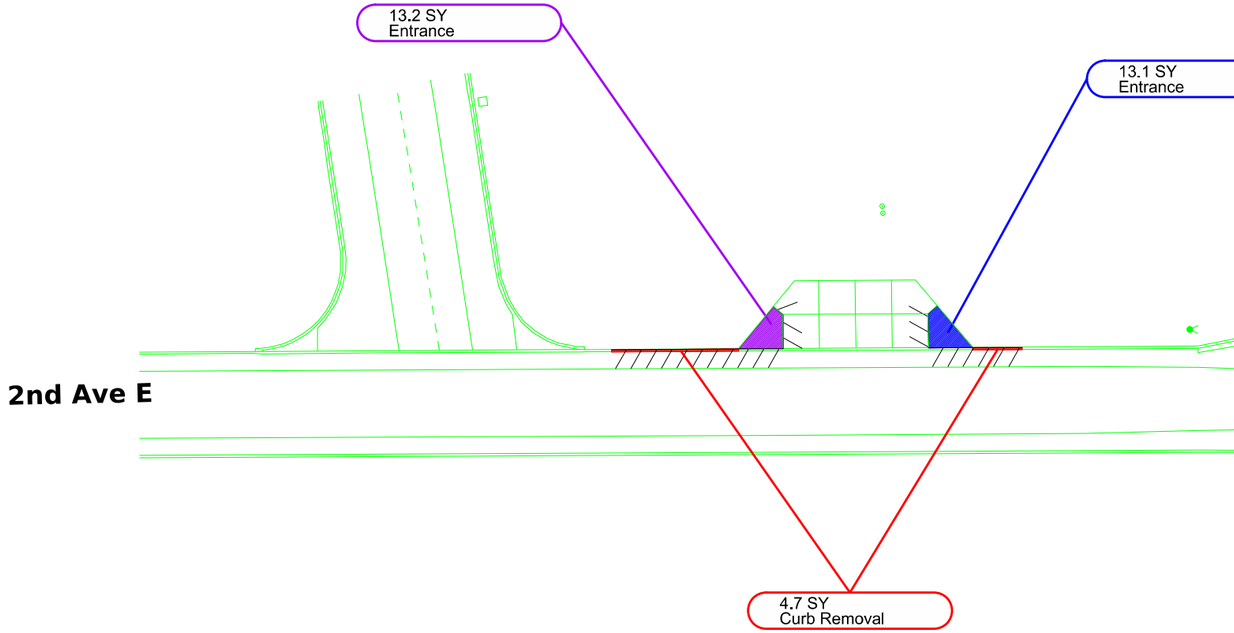
Stage 1	5,484
Stage 2	4,984
Stage 3	5,931
Stage 4	331
Stage 5	134
TOTAL:	16,864

Embankment in Place

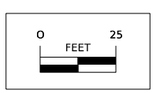
Stage 1	8,467
Stage 2	2,735
Stage 3	188
TOTAL:	**11,390**

Excavation Class 10, Waste

Stage 4	2,565
Stage 5	6,593
TOTAL:	9,158



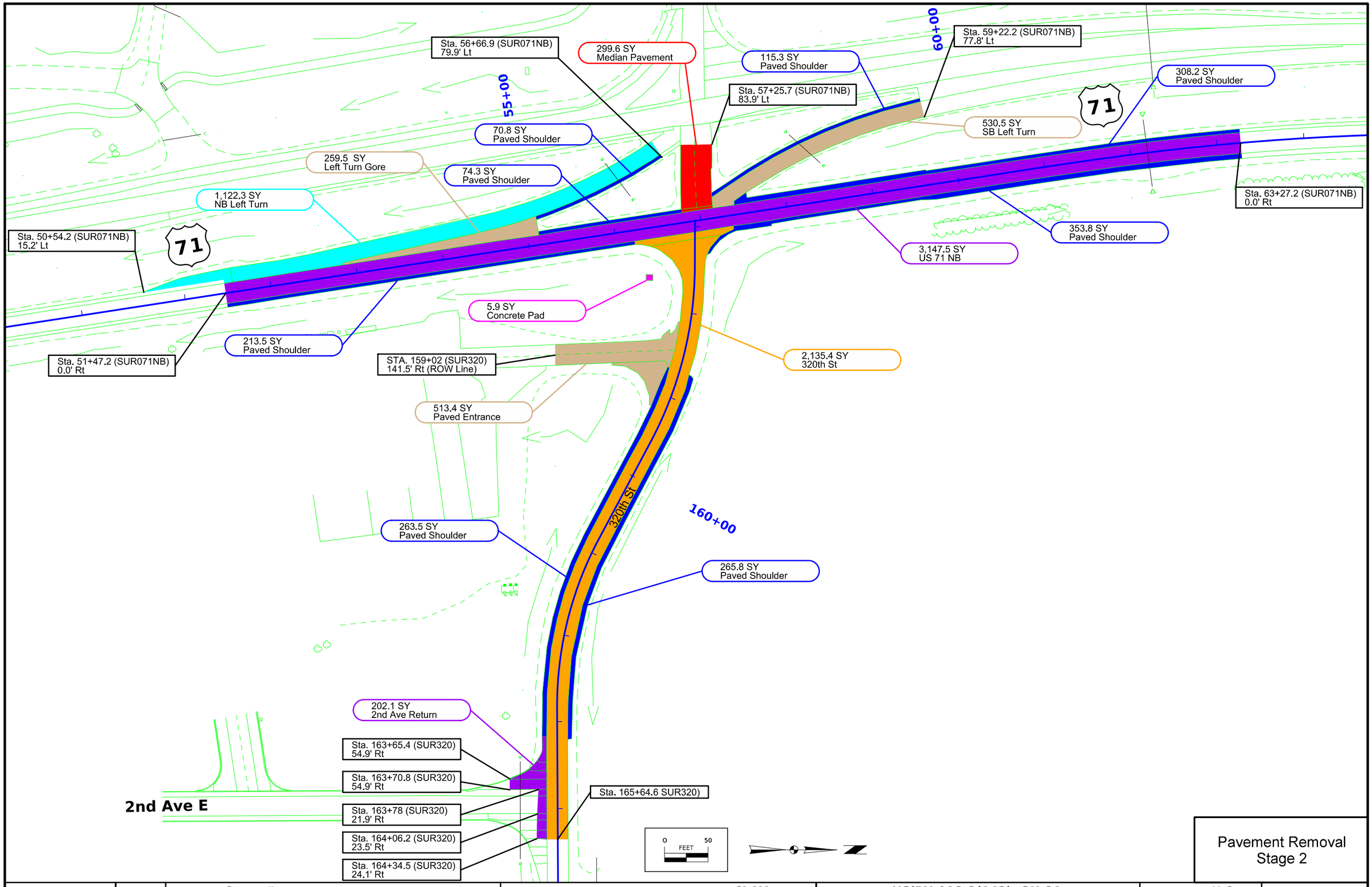




Pavement Removal
Stage 1

FILE NO.	ENGLISH	DESIGN TEAM **Strum/Janus**	**CLAY** COUNTY	PROJECT NUMBER **HSIPX-018-2(142)--3H-21**	SHEET NUMBER **U.1**

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Pavement Removal
Stage 2

FILE NO.	ENGLISH	DESIGN TEAM **Strum/Janus**	**CLAY** COUNTY	PROJECT NUMBER **HSIPX-018-2(142)--3H-21**	SHEET NUMBER **U.2**

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Sta. 625+64 (SUR018)

94.4 SY
Paved Shoulder

TILE

Sta. 627+51 (SUR018)

18

0 25
FEET

630+00

Pavement Removal
Stage 2

FILE NO.	ENGLISH	DESIGN TEAM **Strum/Janus**	**CLAY** COUNTY	PROJECT NUMBER **HSIPX-018-2(142)--3H-21**	SHEET NUMBER **U.3**

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19590+00

19595+00

19600+00

15.0 SY
Driveway

8.1 SY
Sidewalk

4th Ave W

Sta. 19598+06.6 (SR4W)
30.0' Rt

Sta. 19598+28.5
30' Rt

Sta. 19061+06.7 (SR4W)
19.9' Rt

Sta. 19061+11.9 (SR4W)
19.9' Rt

W 37th St

165.0 SY
W 37th St

17.0 SY
Trail

7.3 SY
Trail

20080+00

Sta. 20080+42 (SR37)
31.6' Lt

Sta. 20080+52.5 (SR37)
31.6' Rt

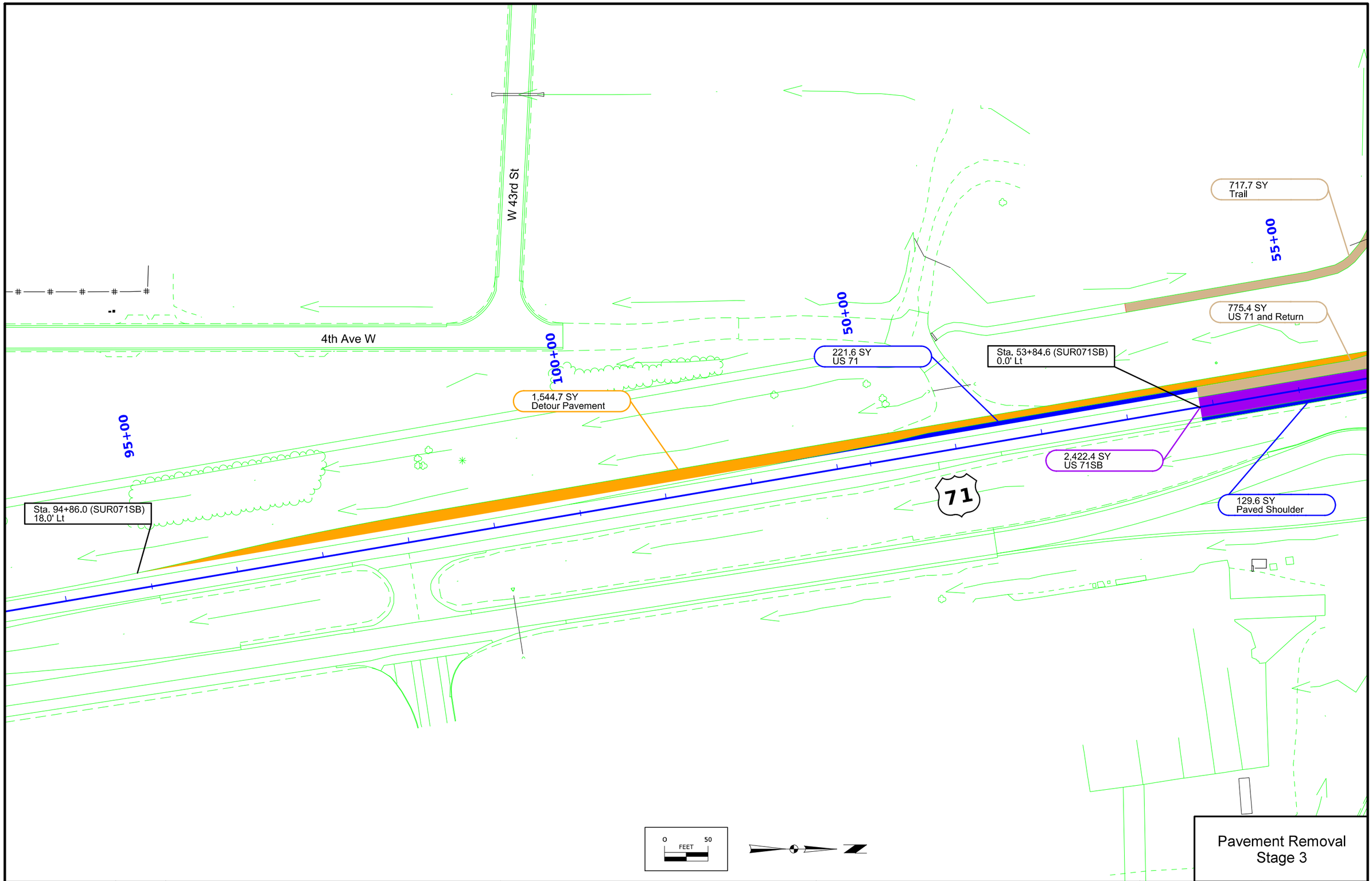
71

0 FEET 50

Pavement Removal
Stage 2

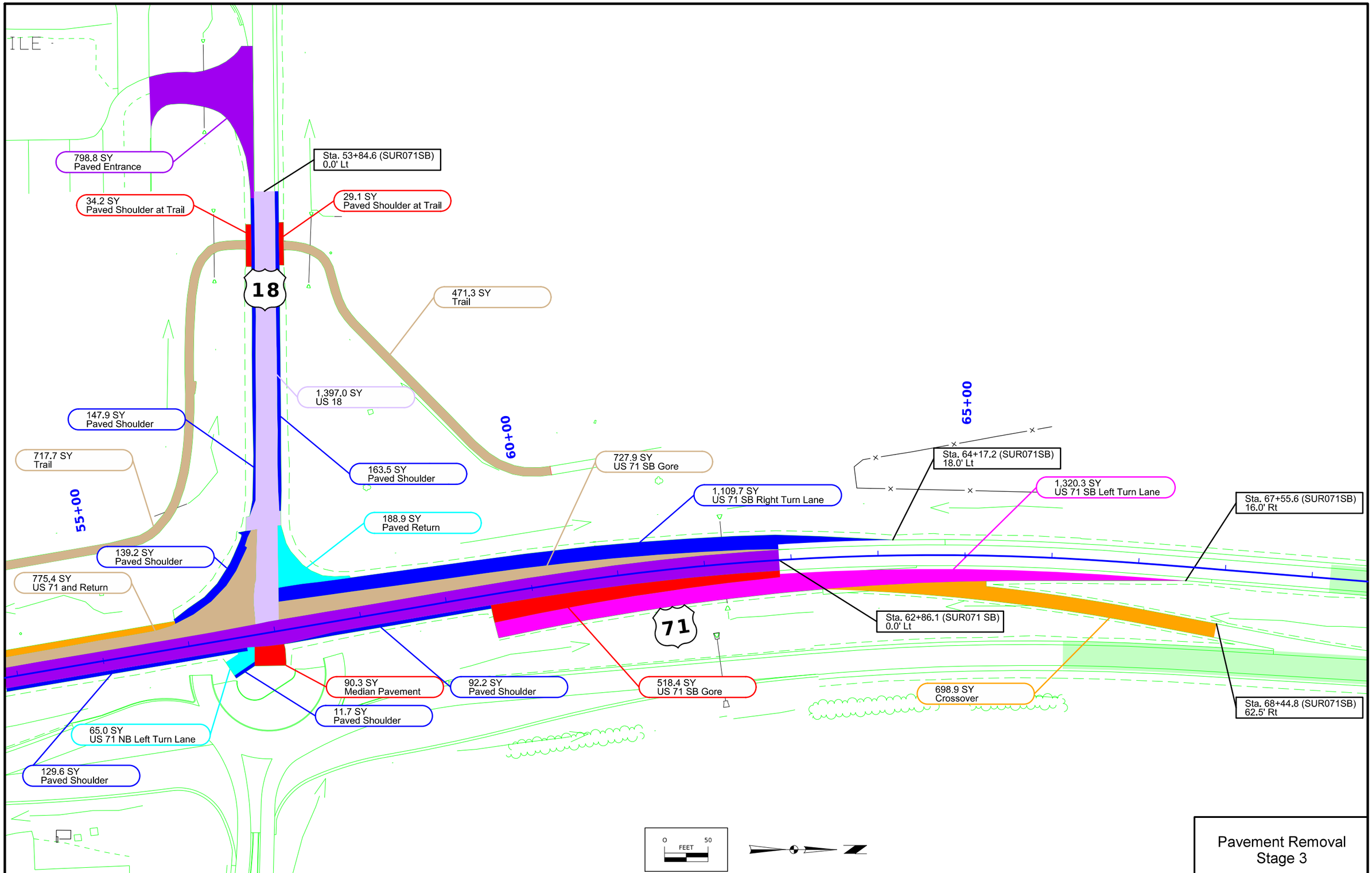
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FILE NO.	ENGLISH	DESIGN TEAM **Strum/Janus**	**CLAY** COUNTY	PROJECT NUMBER **HSIPX-018-2(142)--3H-21**	SHEET NUMBER **U.5**

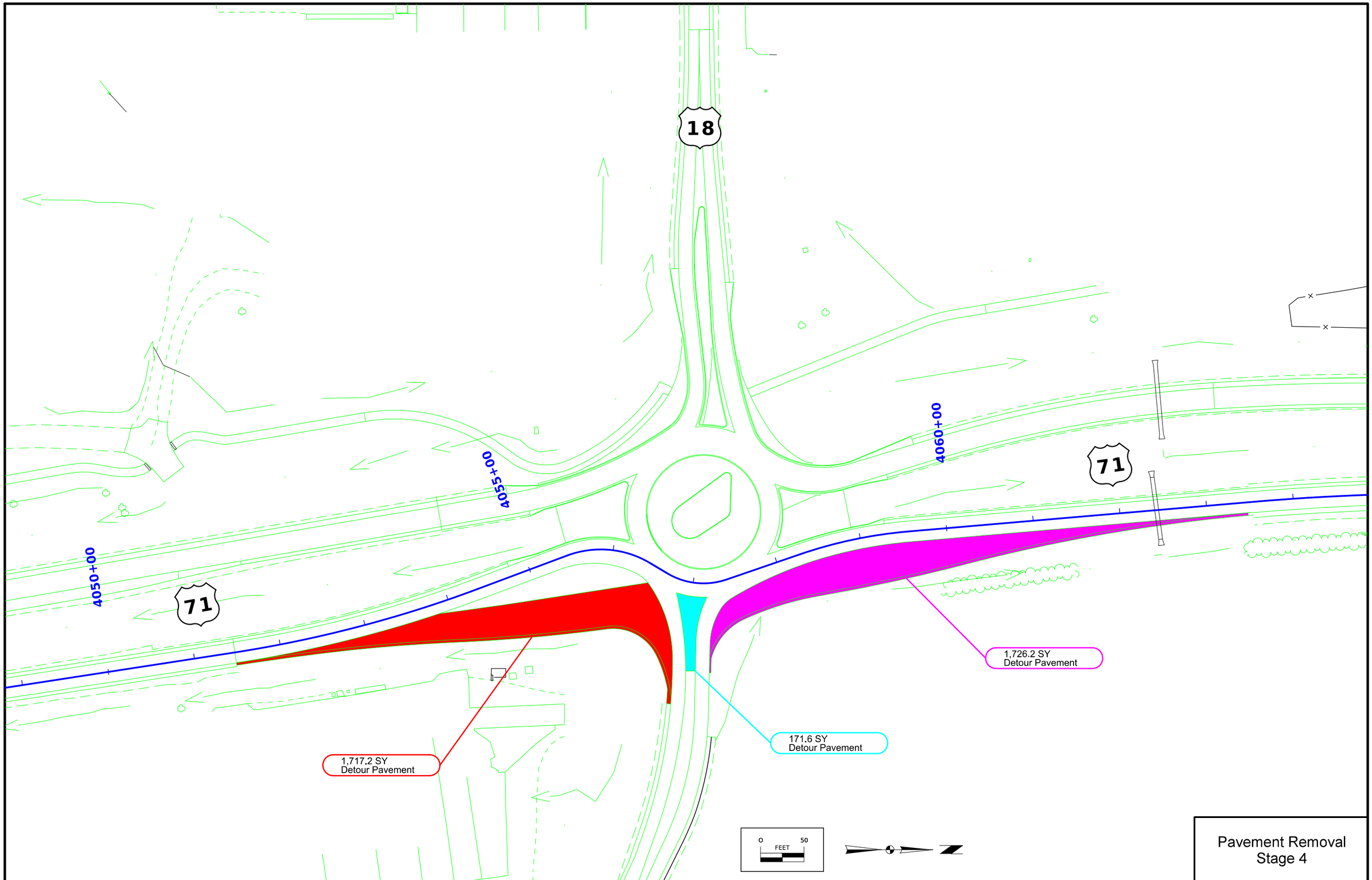
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Pavement Removal
Stage 3

FILE NO.	ENGLISH	DESIGN TEAM **Strum/Janus**	**CLAY** COUNTY	PROJECT NUMBER **HSIPX-018-2(142)--3H-21**	SHEET NUMBER **U.6**

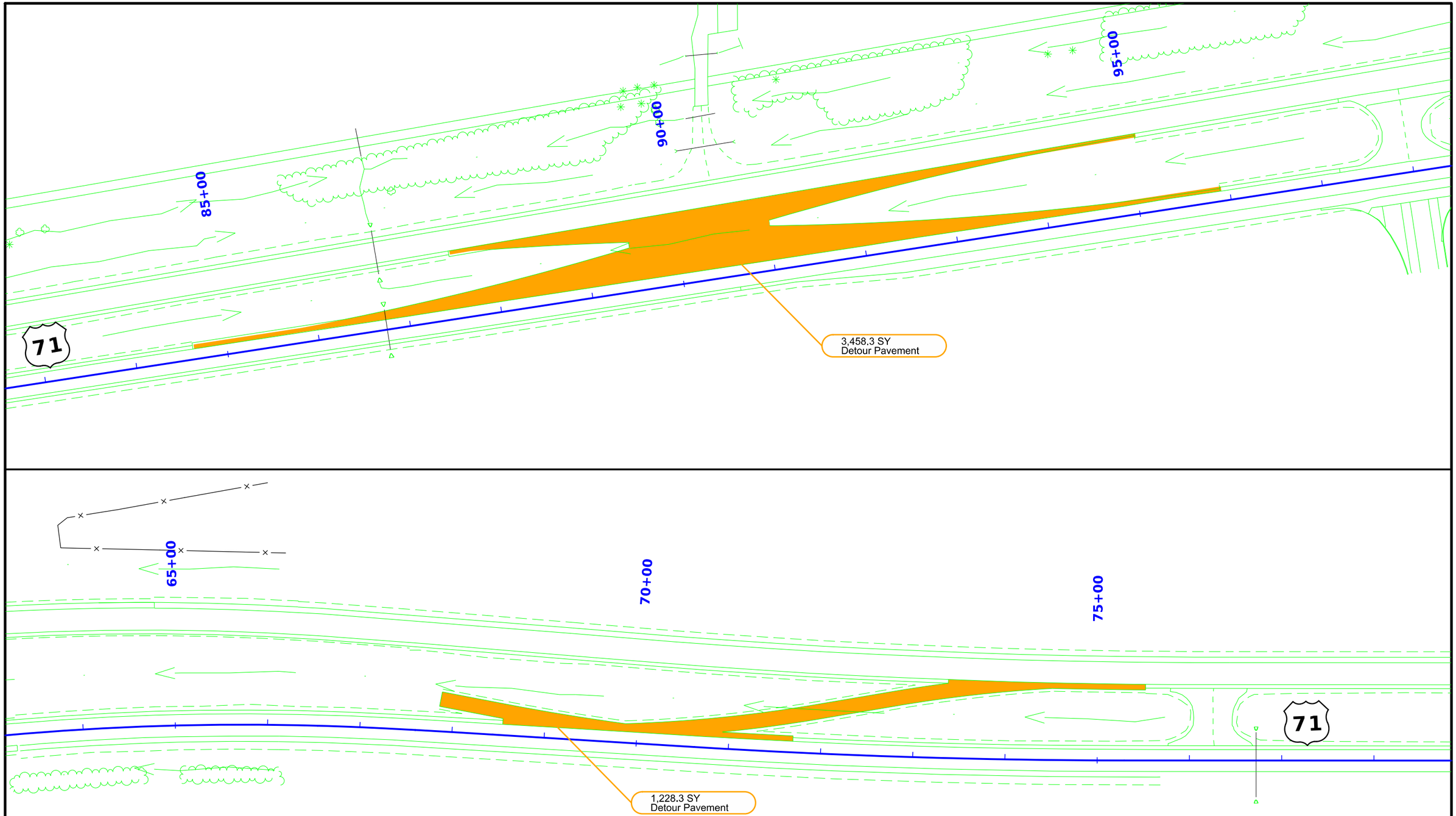
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Pavement Removal
Stage 4

FILE NO.	ENGLISH	DESIGN TEAM **Strum/Janus**	**CLAY** COUNTY	PROJECT NUMBER **HSIPX-018-2(142)--3H-21**	SHEET NUMBER **U.7**

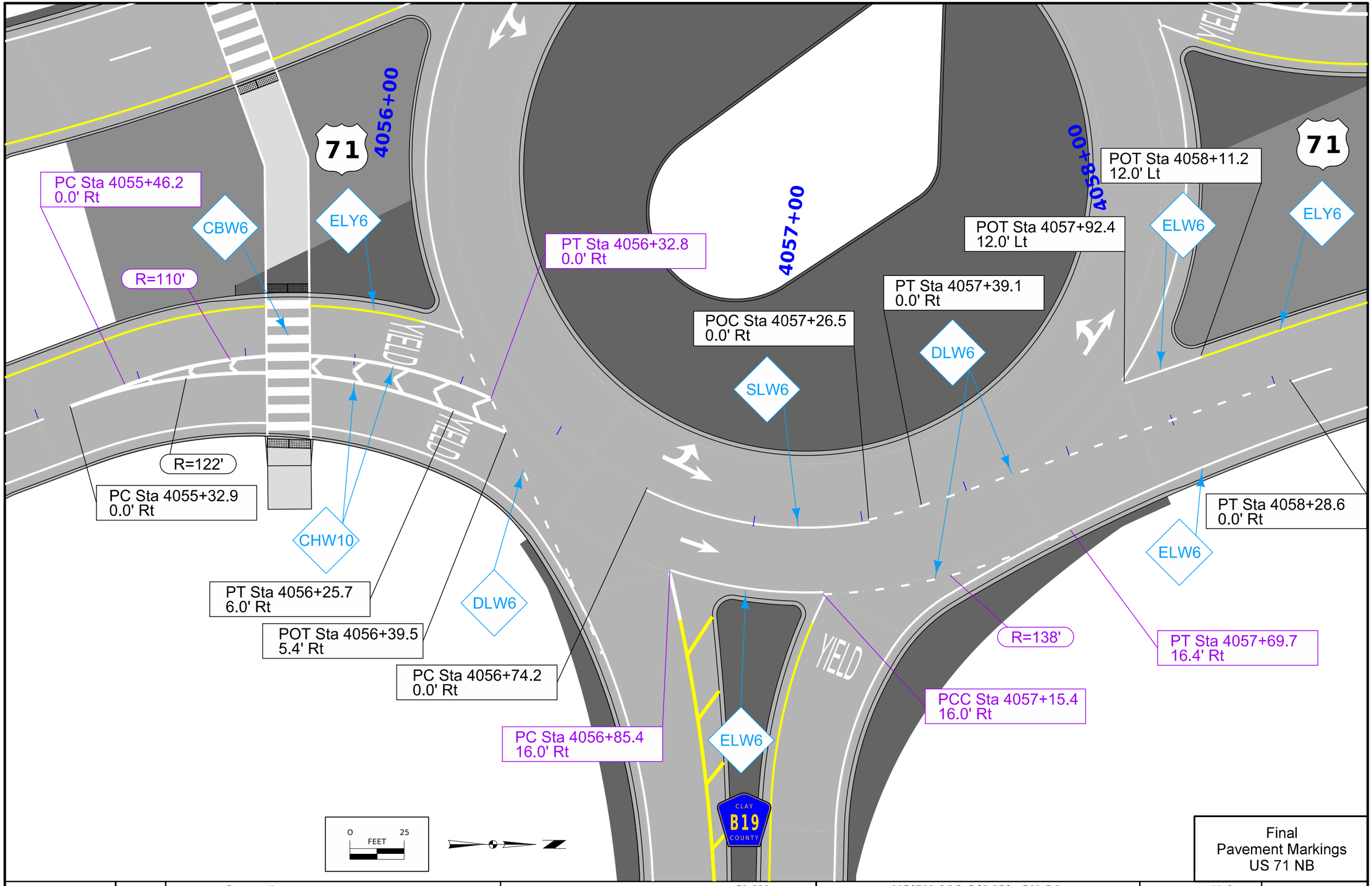
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Pavement Removal
Stage 5

FILE NO.	ENGLISH	DESIGN TEAM **Strum/Janus**	**CLAY** COUNTY	PROJECT NUMBER **HSIPX-018-2(142)--3H-21**	SHEET NUMBER **U.8**

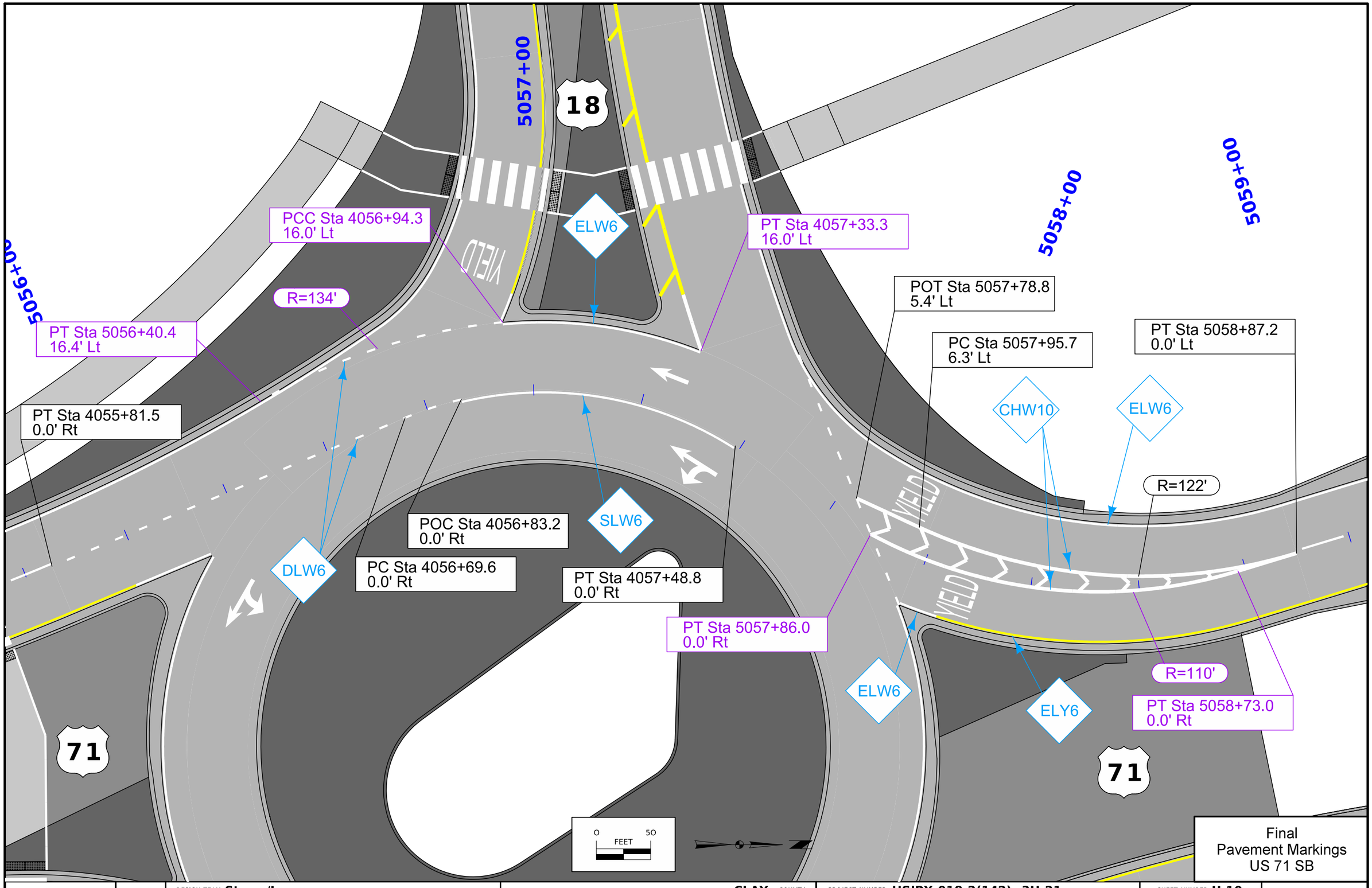
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Final
Pavement Markings
US 71 NB

FILE NO.	ENGLISH	DESIGN TEAM **Strum/Janus**	**CLAY** COUNTY	PROJECT NUMBER **HSIPX-018-2(142)--3H-21**	SHEET NUMBER **U.9**

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FILE NO.	ENGLISH	DESIGN TEAM **Strum/Janus**	**CLAY** COUNTY	PROJECT NUMBER **HSIPX-018-2(142)--3H-21**	SHEET NUMBER **U.10**

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3630+00

3631+00

3632+00

Sta 4056+94.3
0.0' Lt

Sta 4056+94.3
0.0' Lt

ELY6

18

Sta 4056+94.3
0.0' Rt

CHY10

Sta 4056+94.3
0.0' Rt

ELY6

2630+00

2631+00

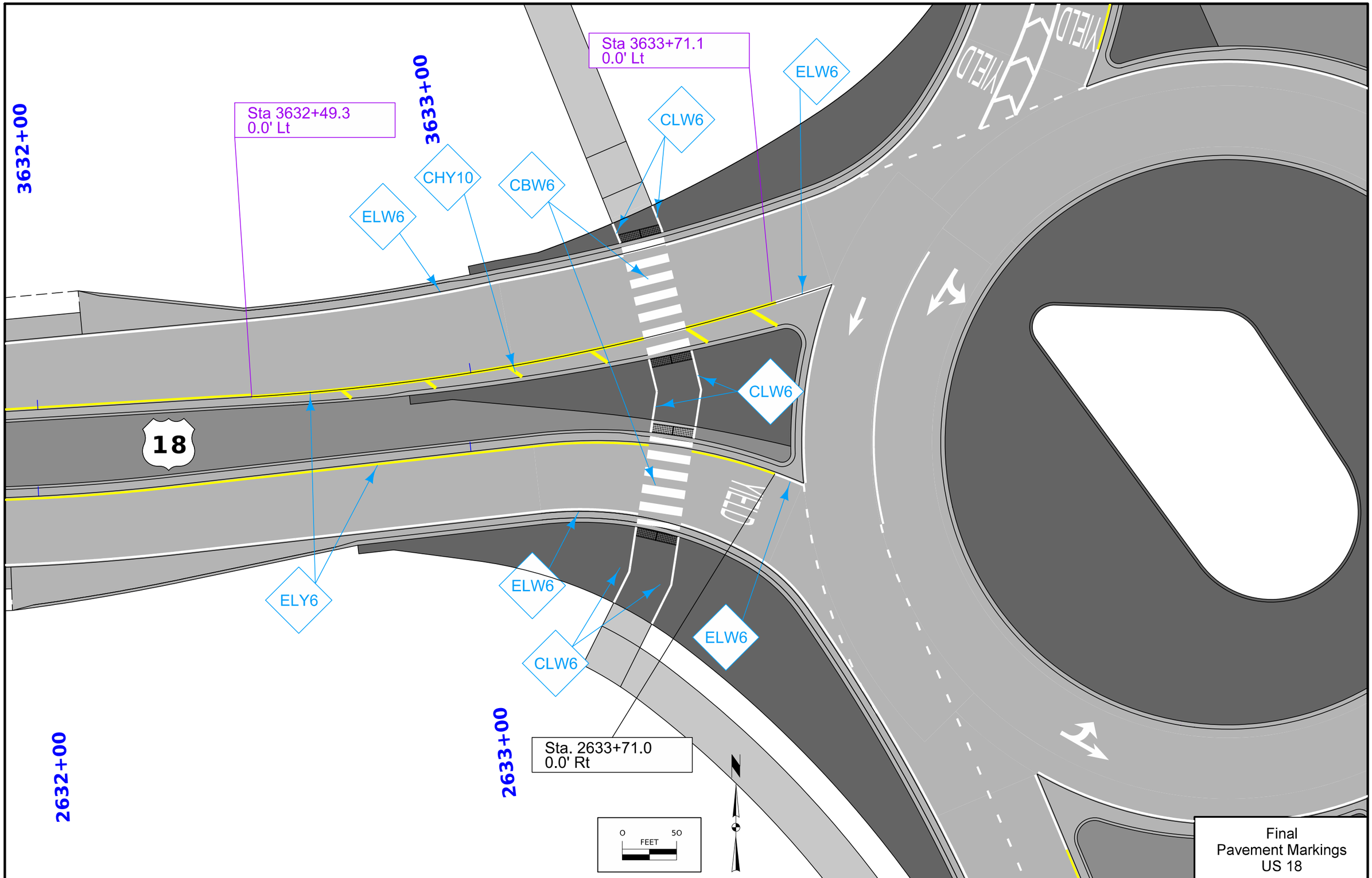
2632+00

0 50
FEET

Final
Pavement Markings
US 18

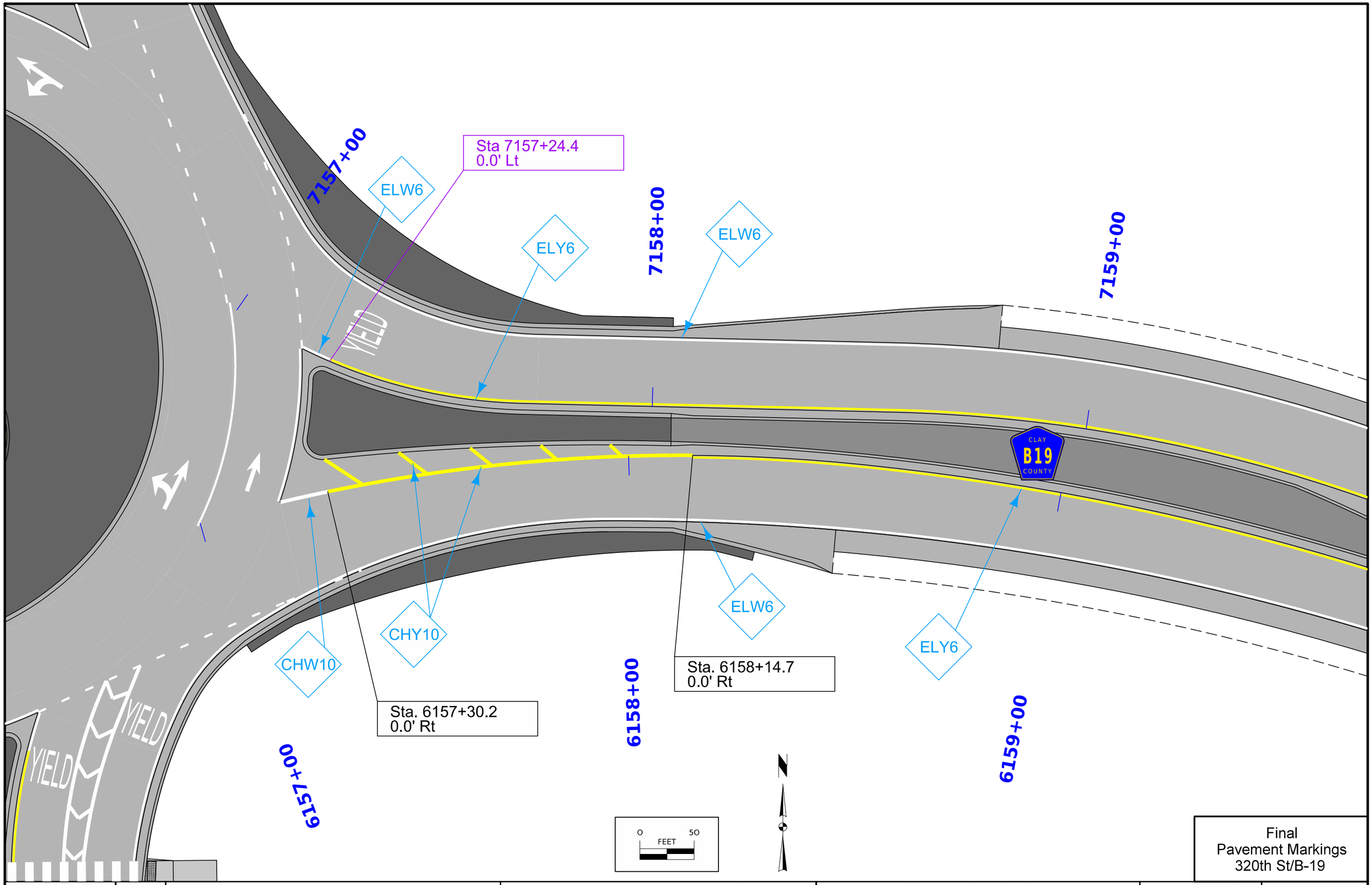
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FILE NO.	ENGLISH	DESIGN TEAM **Strum/Janus**	**CLAY** COUNTY	PROJECT NUMBER **HSIPX-018-2(142)--3H-21**	SHEET NUMBER **U.12**

1:56:01 PM 8/3/2026 ajanus2 pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\2101802023\Design\CADD_Files\Sheet_Files\SHT_21018142_U09.dgn



Final
Pavement Markings
320th St/B-19

FILE NO.	ENGLISH	DESIGN TEAM **Strum/Janus**	**CLAY** COUNTY	PROJECT NUMBER **HSIPX-018-2(142)--3H-21**	SHEET NUMBER **U.13**

1:56:02 PM 8/3/2026 ajanus2 pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\2101802023\Design\CADD_Files\Sheet_Files\SHT_21018142_U09.dgn

7159+00

7160+00

7161+00

7162+00

ELY6

ELW6

DCLY6

CHY10

ELW6

SLW6

Sta 7159+81.1
0.0' Lt

Sta 7161+74.6
0.0' Lt

6159+81.2
0.0' Rt

CLAY
B19
COUNTY

6160+00

6161+00

0 FEET 50

Final
Pavement Markings
320th St/B-19

FILE NO.	ENGLISH	DESIGN TEAM **Strum/Janus**	**CLAY** COUNTY	PROJECT NUMBER **HSIPX-018-2(142)--3H-21**	SHEET NUMBER **U.14**

1:56:02 PM 8/3/2026 ajanus2 pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\2101802023\Design\CADD_Files\Sheet_Files\SHT_21018142_U09.dgn

CROSS SECTION VIEW COLOR LEGEND

Design Color No.	Feature
Aggregate	
(64)	Choke Stone
(42)	Engineering Fabric
(8)	Flooded Backfill
(92)	Macadam Stone
(20)	Modified
(12)	Plowing Shaping
(14)	Porous Backfill
(8)	Revetment Class A
(6)	Revetment Class B
(62)	Revetment Class C
(188)	Revetment Class D
(28)	Revetment Class E
(12)	Shoulder Special Backfill
(12)	Special Backfill
(20)	Subbase
(20)	Subbase Lower
(20)	Subbase Upper
(118)	Subgrade Treatment
Asphalt	
(207)	HMA Base Course
(207)	HMA Interim Course
(207)	HMA Surface Course
Concrete	
(0)	Barrier Concrete
(0)	Barrier Concrete Footing
(0)	Curb Gutter
(48)	Flowable Mortar
(0)	Median Concrete
(0)	PCC Pavement
(0)	Sidewalk
Shoulder	
(209)	Shoulder HMA
(0)	Shoulder PCC
(6)	Shoulder Granular
Existing	
(0)	Existing Pavement
Structural	
(112)	Noise Wall
(112)	Noise Wall Footing
(112)	Retaining Wall Back
(112)	Retaining Wall Back Excavate
(112)	Retaining Wall Face
(112)	Retaining Wall Front Excavate
(112)	Retaining Wall Front Footing
(112)	Retaining Wall MSE Gutter
(112)	Retaining Wall Reinforced Earth
Grading	
(8)	Behind Curb Cut
(6)	Granular
(13)	Granular Back Fill
(48)	Rock Undercut
(8)	Shoulder Earth Fill
(2)	Side Slopes
(226)	Side Slopes Dressing
Substrata	
(128)	Boulder Substrata
(48)	Broken Weathered Substrata
(3)	Core Out Substrata
(203)	Existing Pavement Substrata
(6)	Loam Substrata
(80)	Rock Substrata
(4)	Select Sand Substrata
(3)	Shale Substrata
(10)	Topsoil Substrata
Unsuitable / Waste	
(3)	Unsuitable Type A
(13)	Unsuitable Type B
(11)	Unsuitable Type C
(3)	Waste

NOTES:

Text

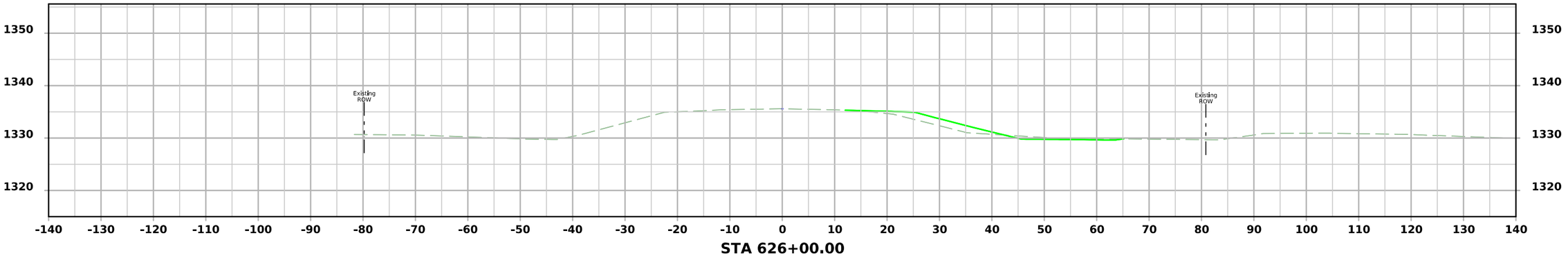
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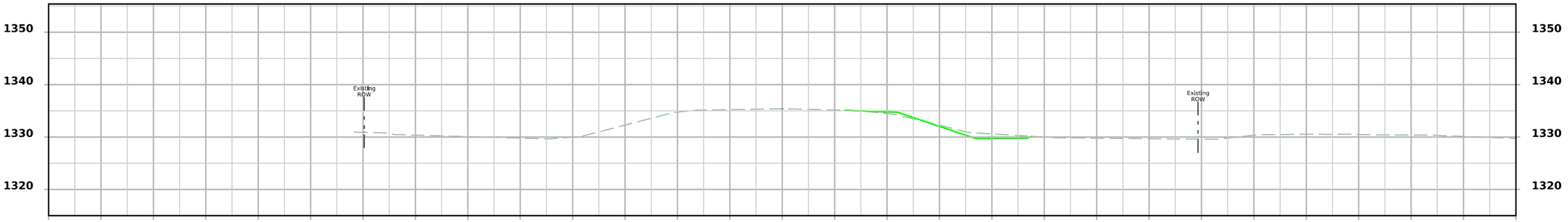
CROSS SECTIONS
LEGEND AND INFORMATION SHEET

(COVERS SHEET SERIES W, X, Y, & Z)

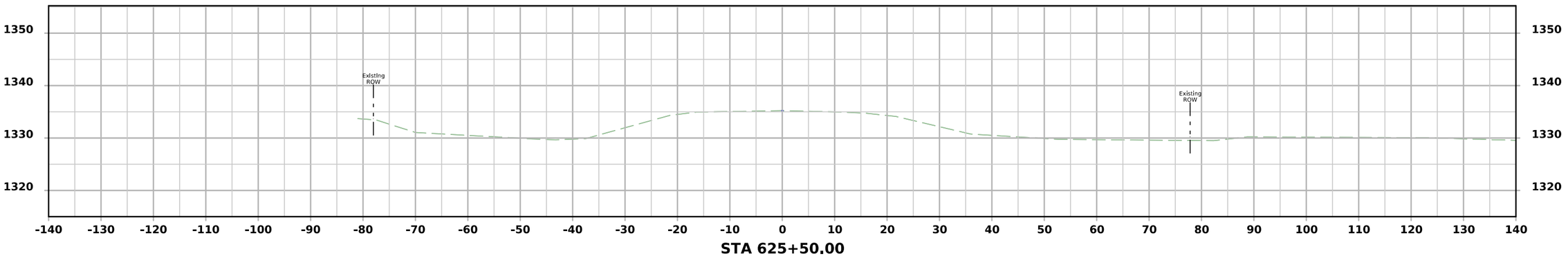
US 18



STA 626+00.00



STA 625+75.00

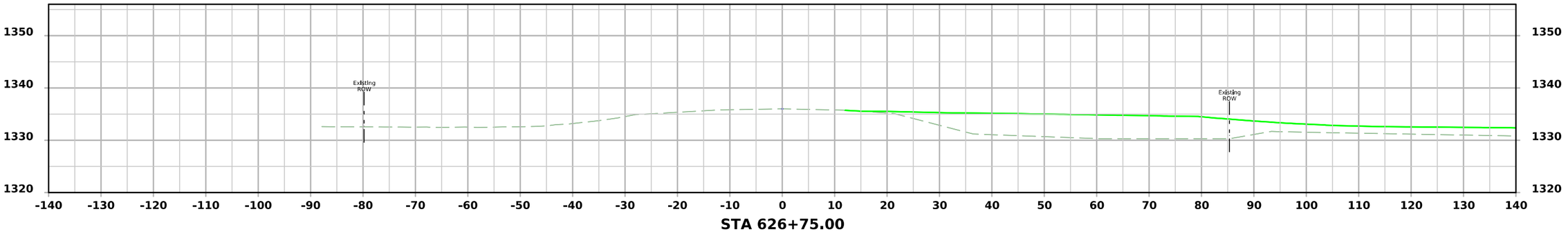


STA 625+50.00

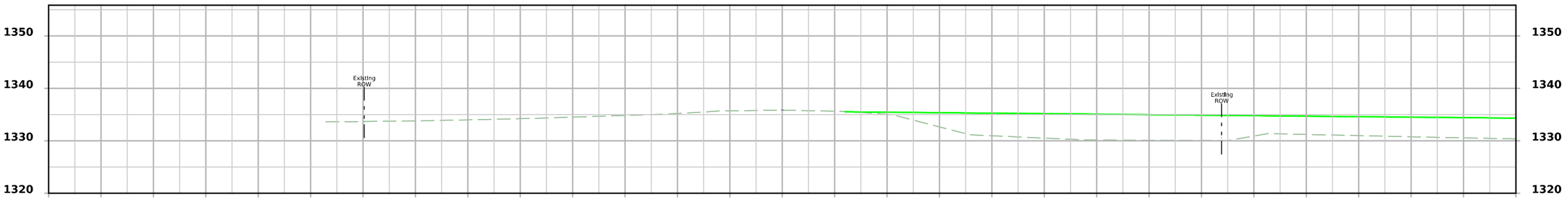
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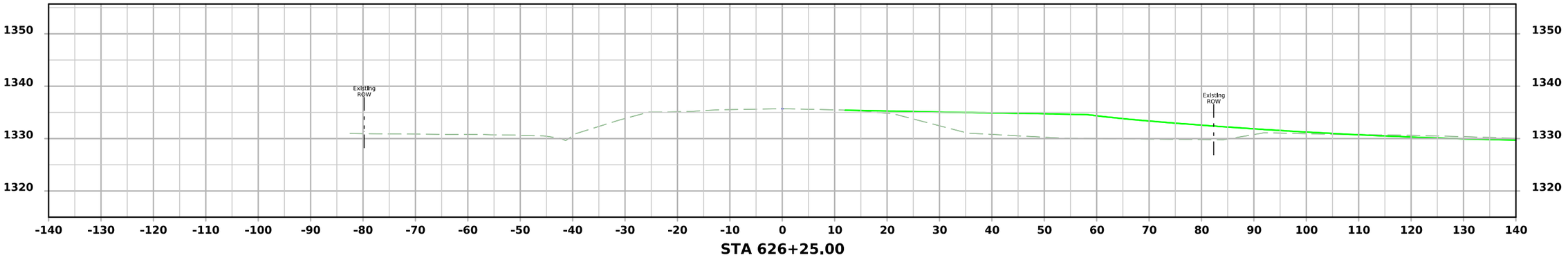
US 18



STA 626+75.00



STA 626+50.00

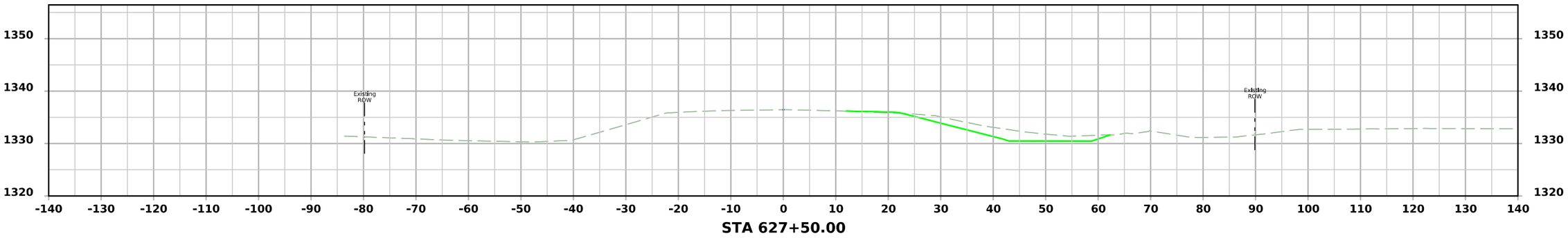


STA 626+25.00

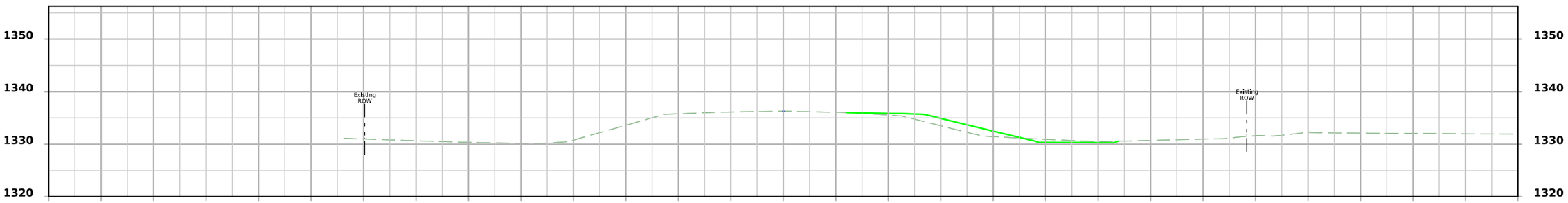
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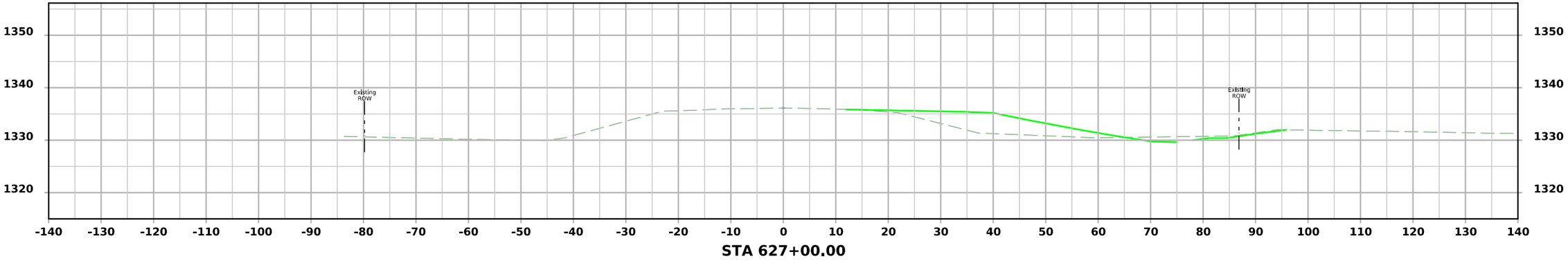
US 18



STA 627+50.00



STA 627+25.00

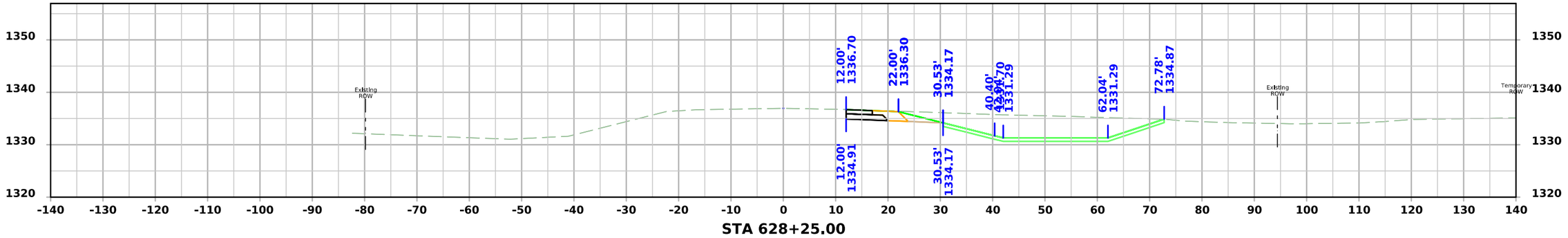


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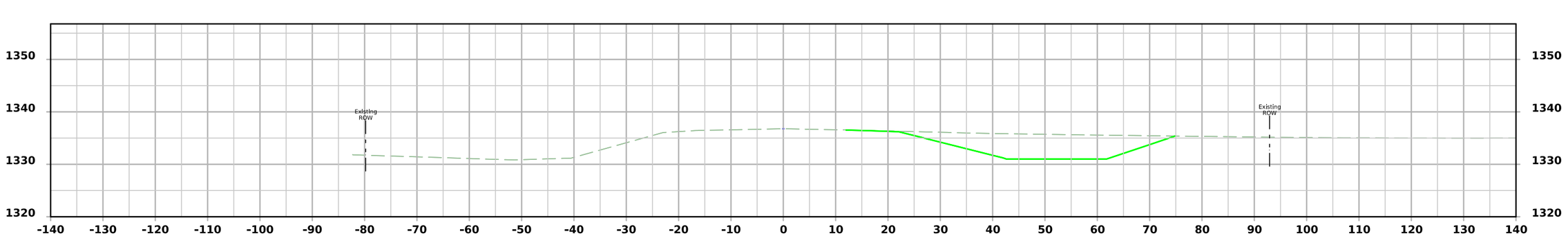
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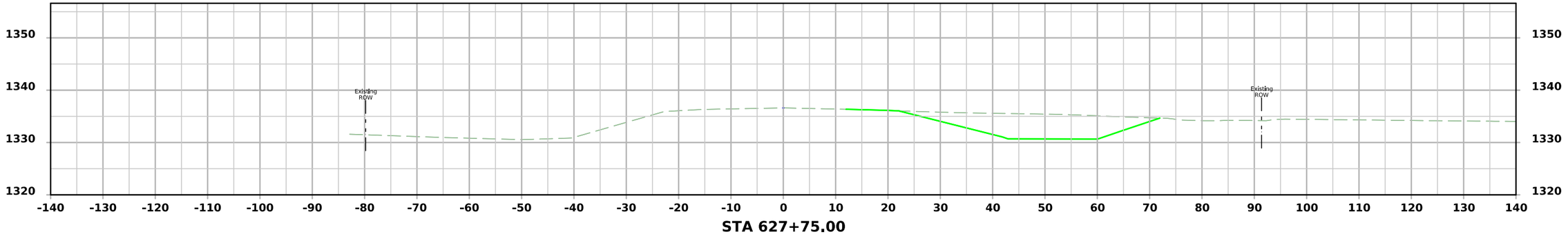
US 18



STA 628+25.00



STA 628+00.00

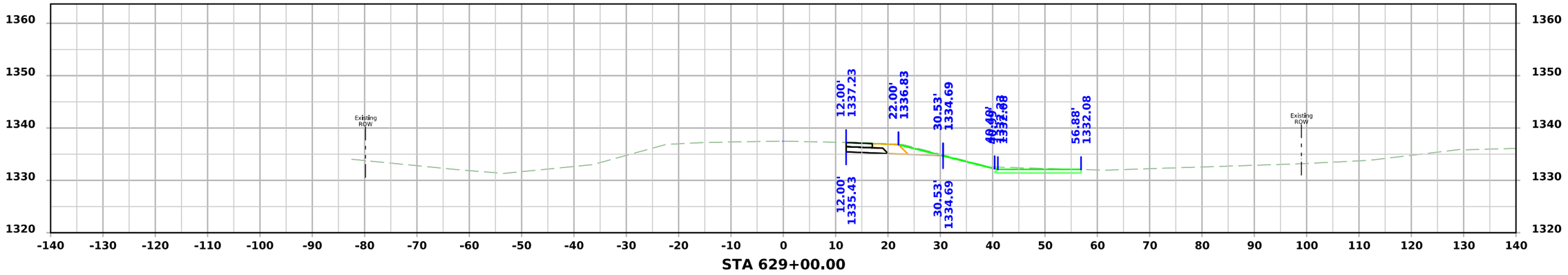


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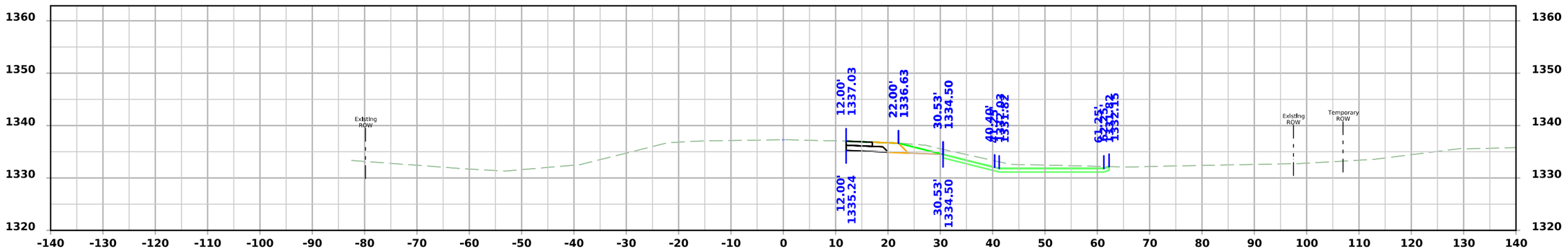
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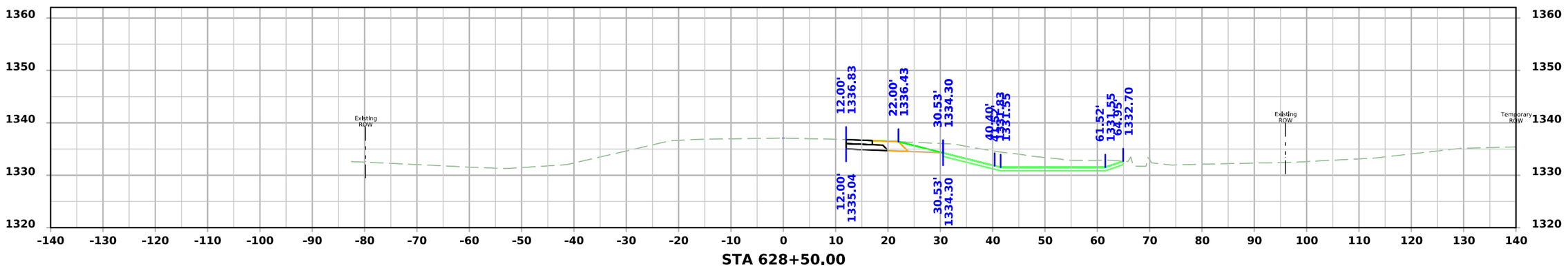
US 18



STA 629+00.00



STA 628+75.00

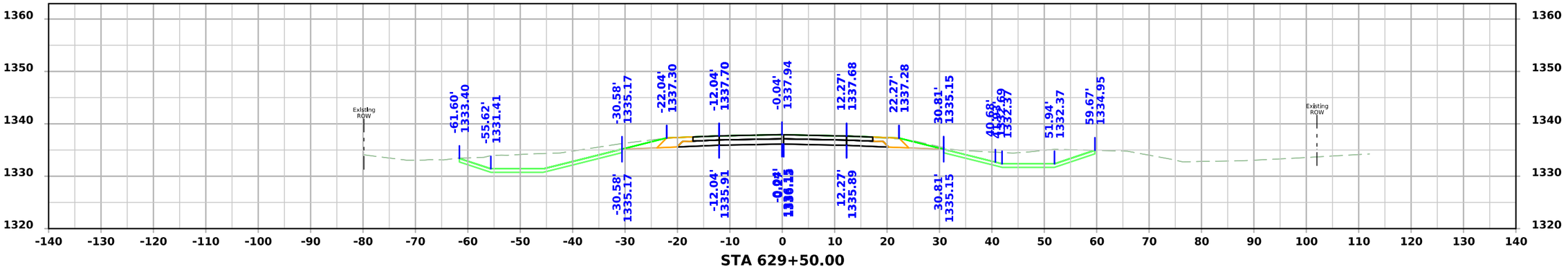


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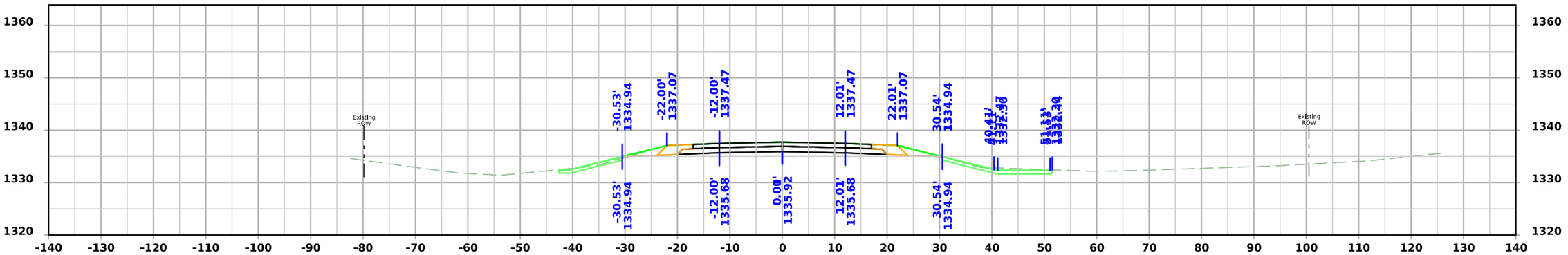
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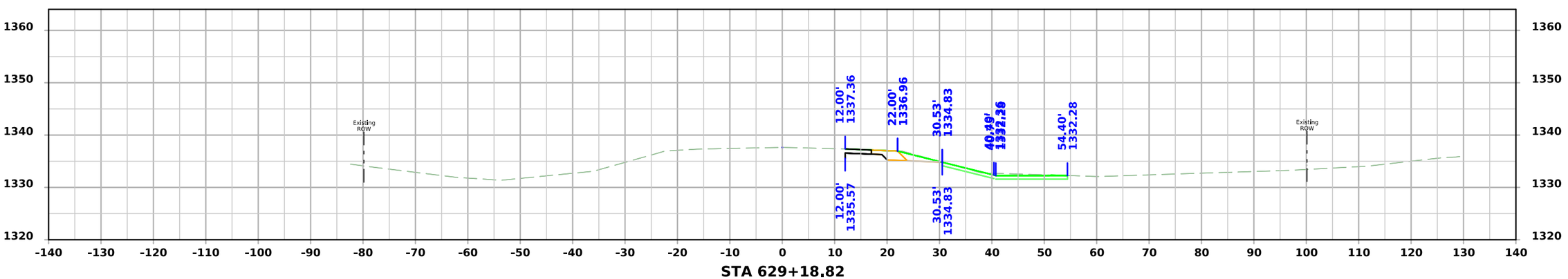
US 18



STA 629+50.00



STA 629+25.00

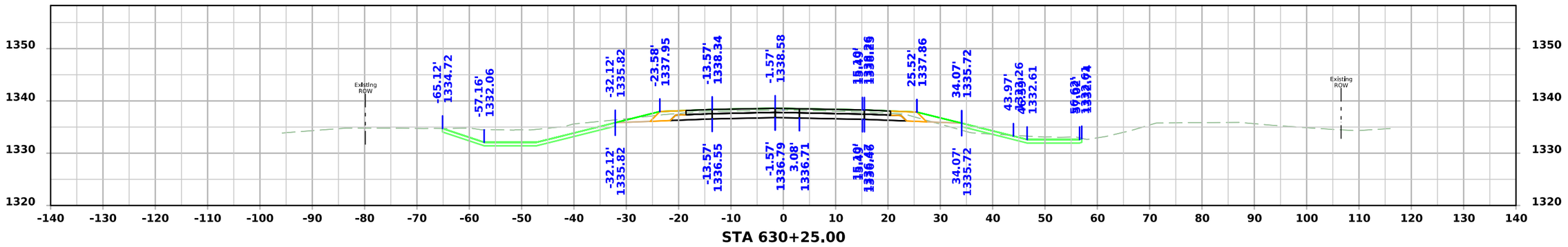


STA 629+18.82

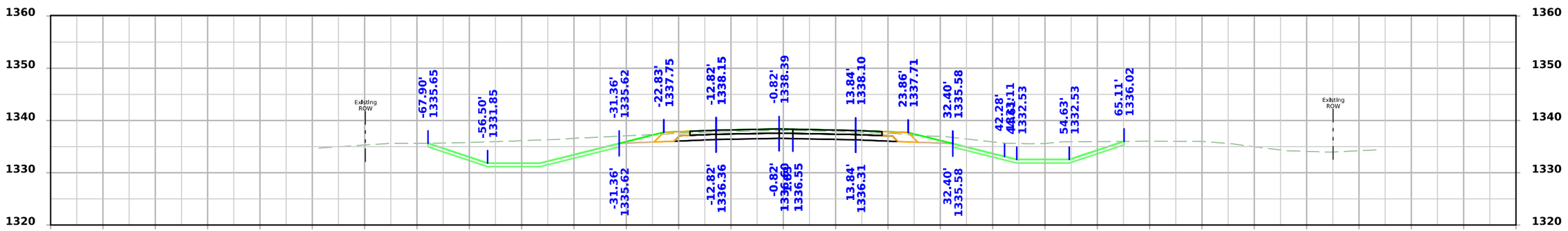
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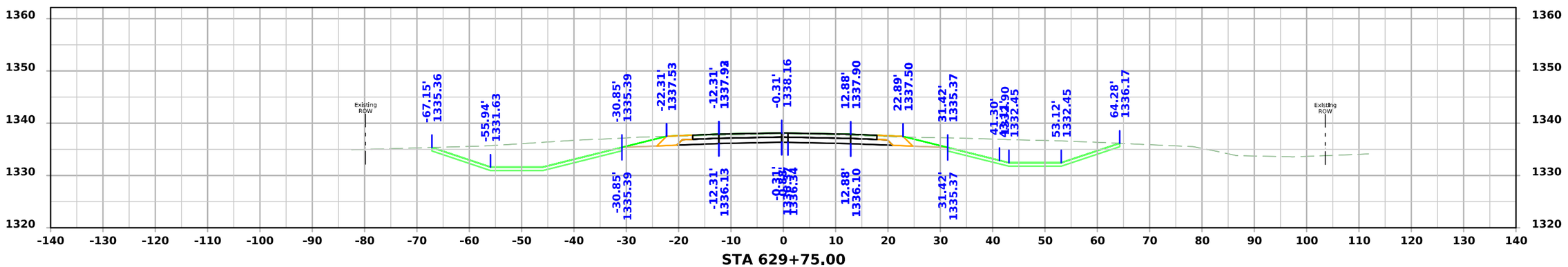
US 18



STA 630+25.00



STA 630+00.00

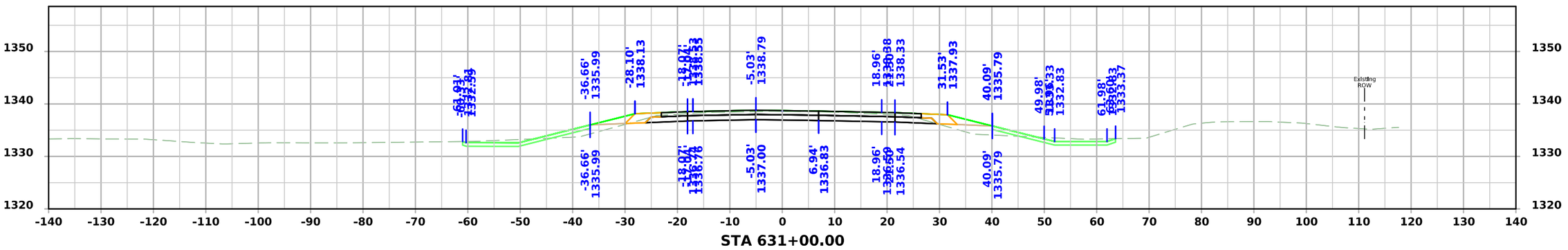


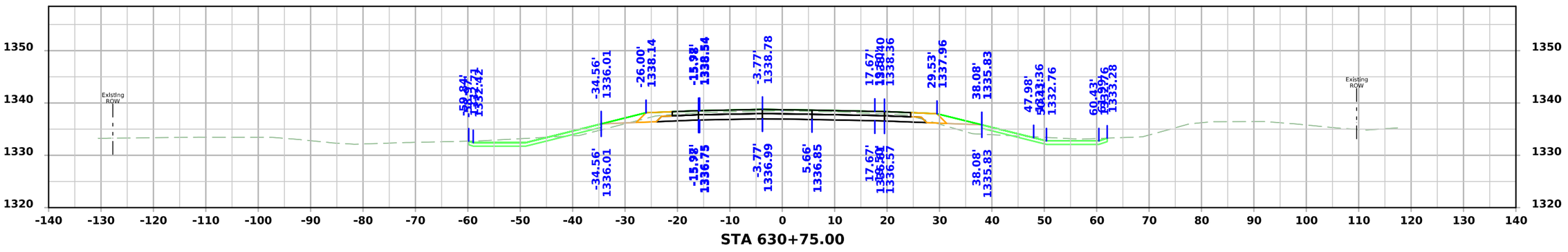
STA 629+75.00

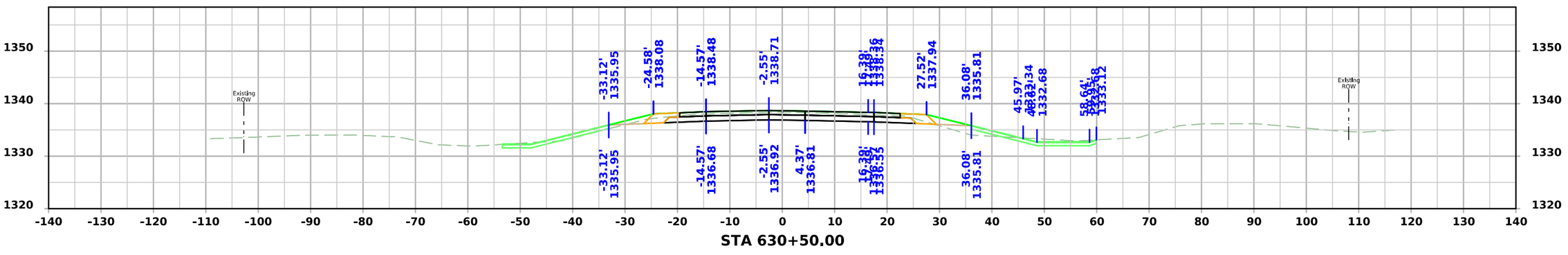
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US 18



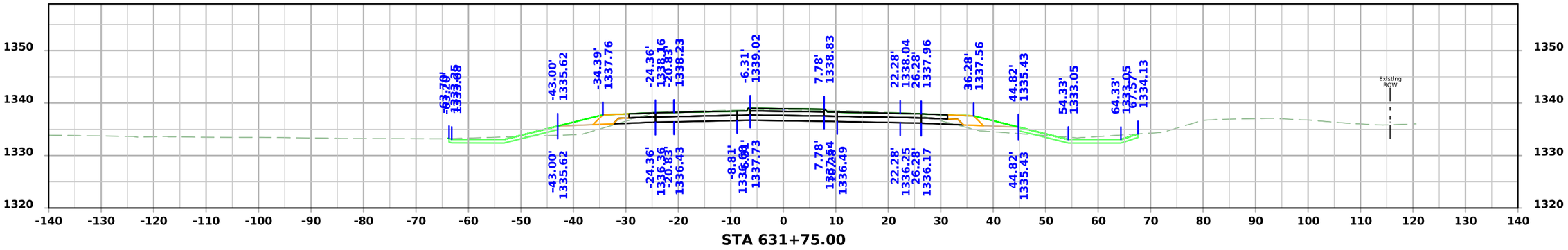




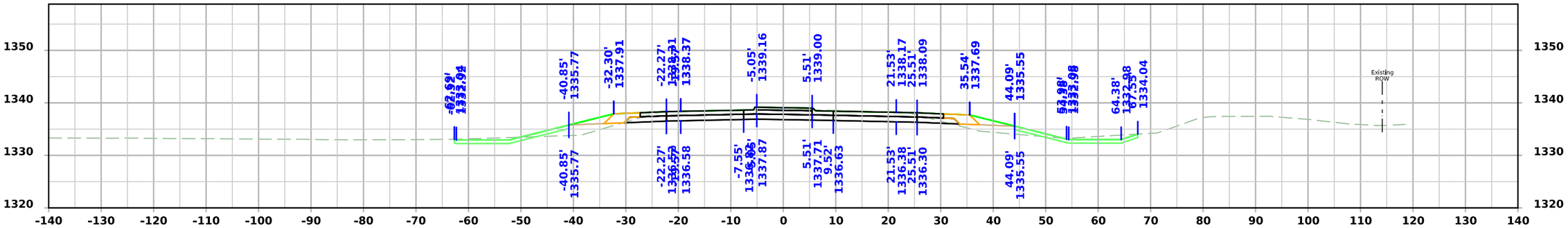
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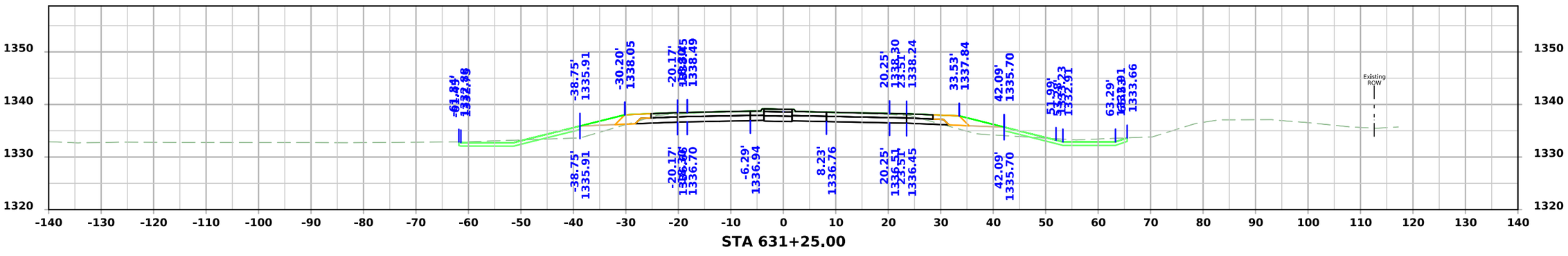
US 18



STA 631+75.00



STA 631+50.00

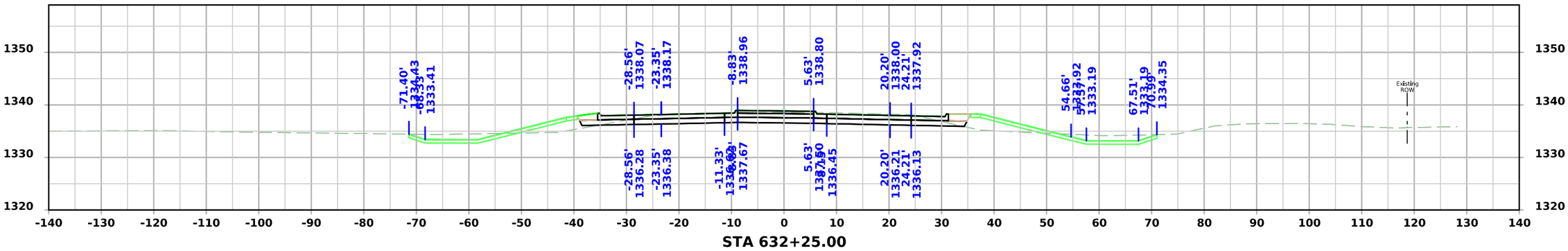


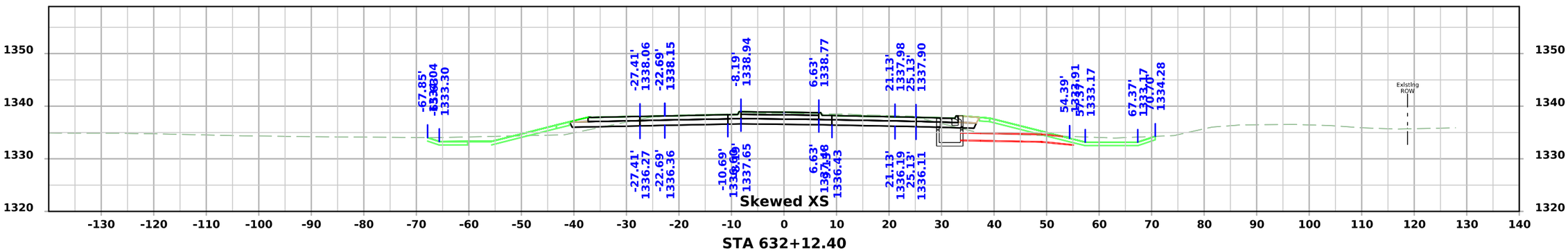
STA 631+25.00

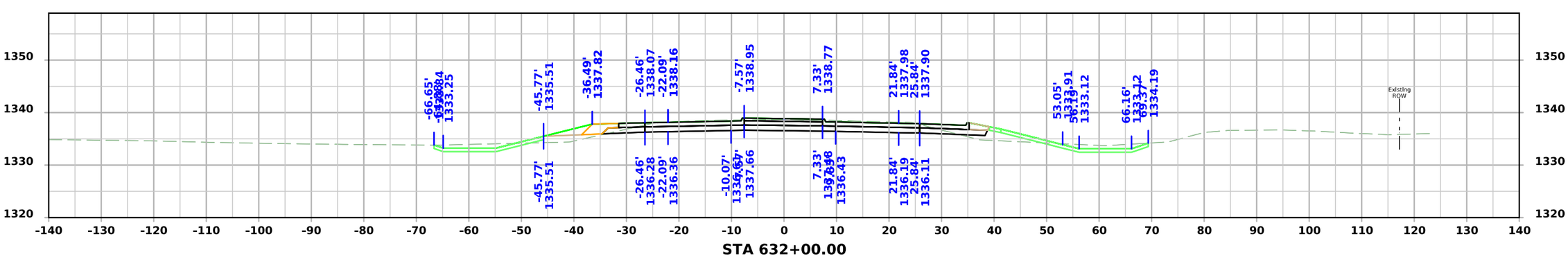
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US 18



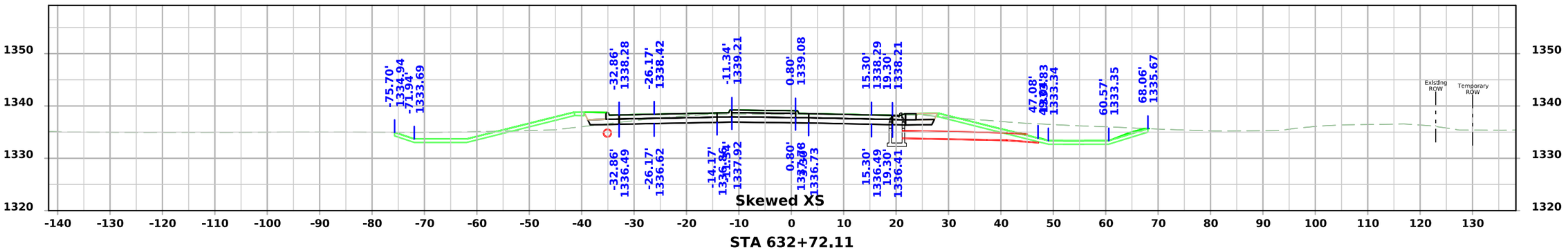


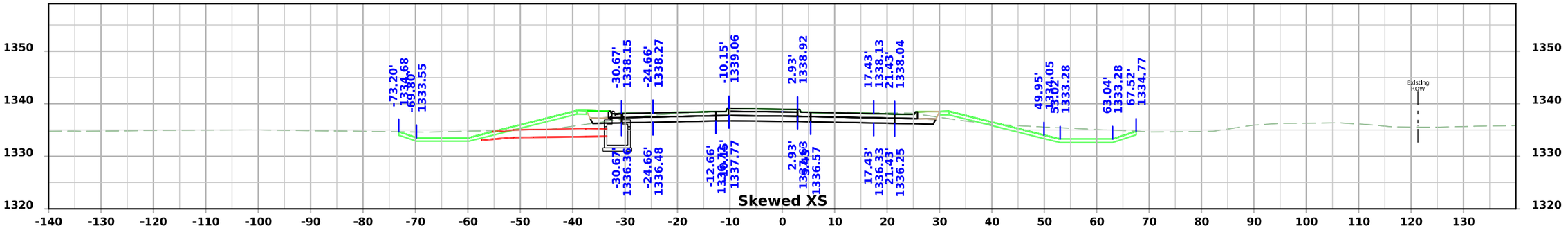


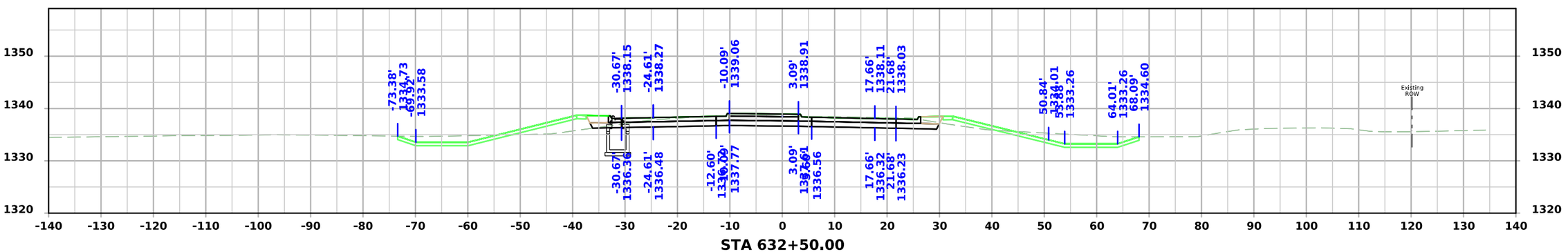
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US 18



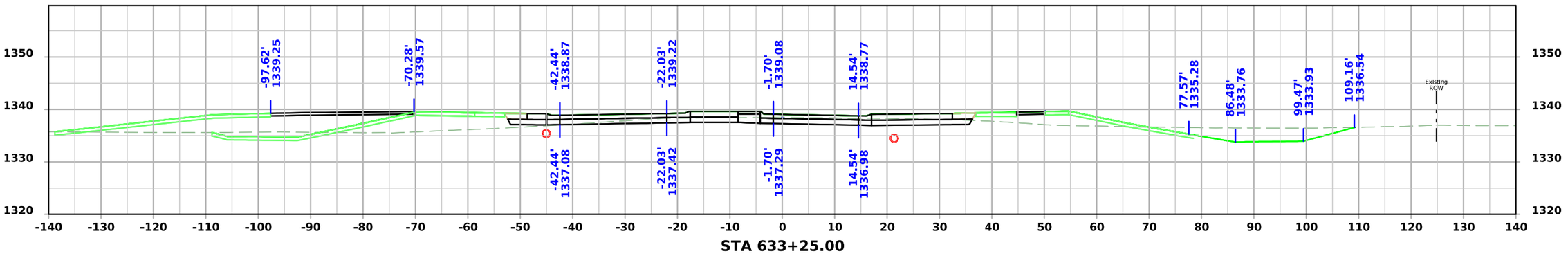




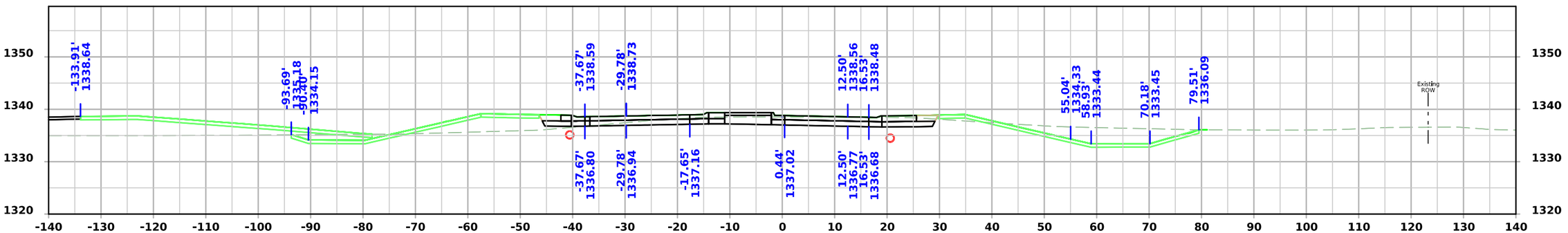
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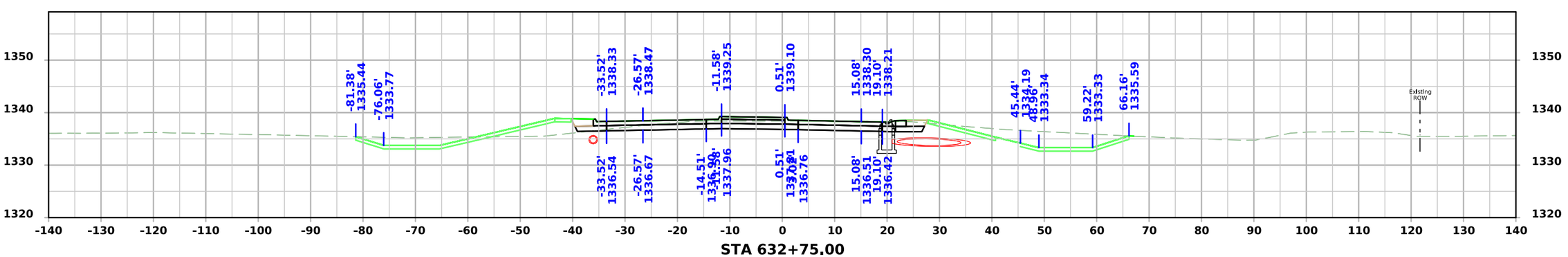
US 18



STA 633+25.00



STA 633+00.00

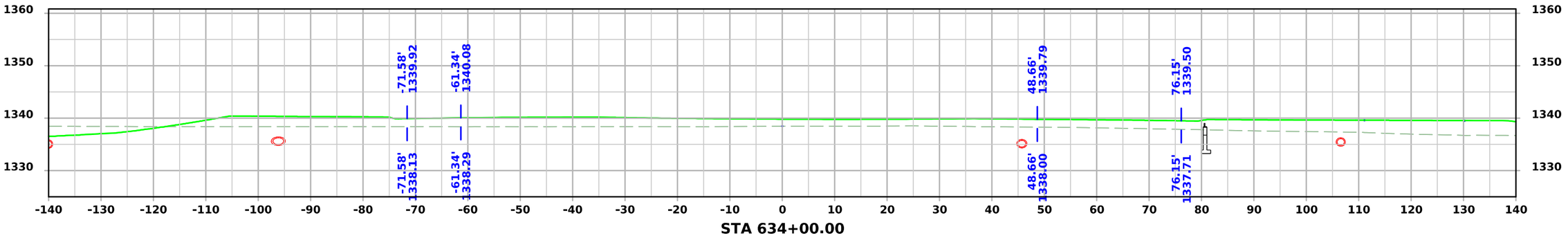


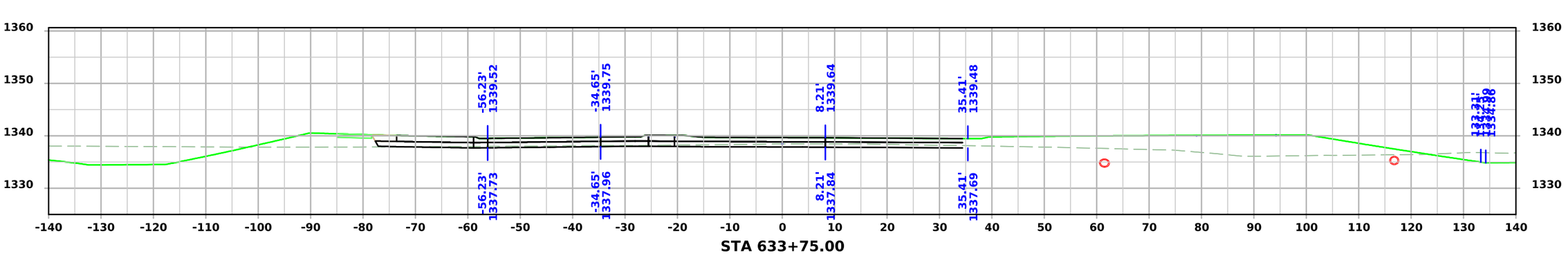
STA 632+75.00

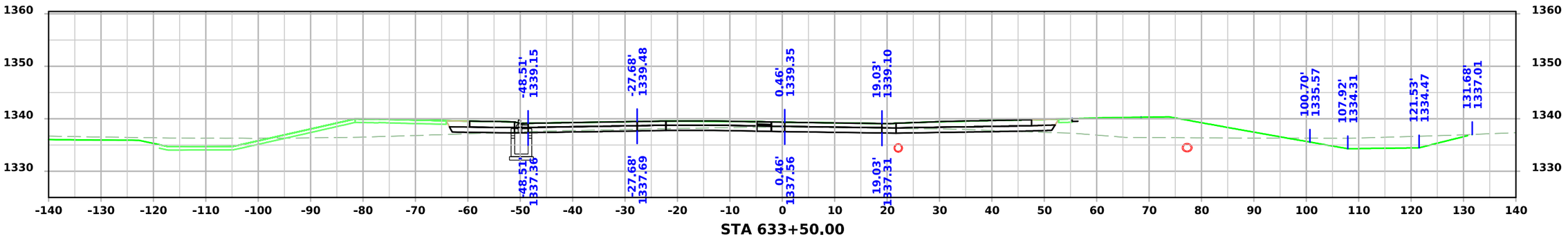
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US 18



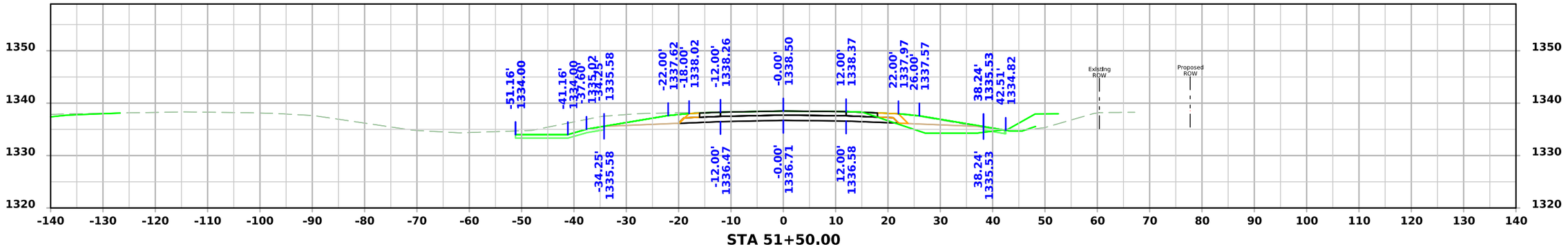




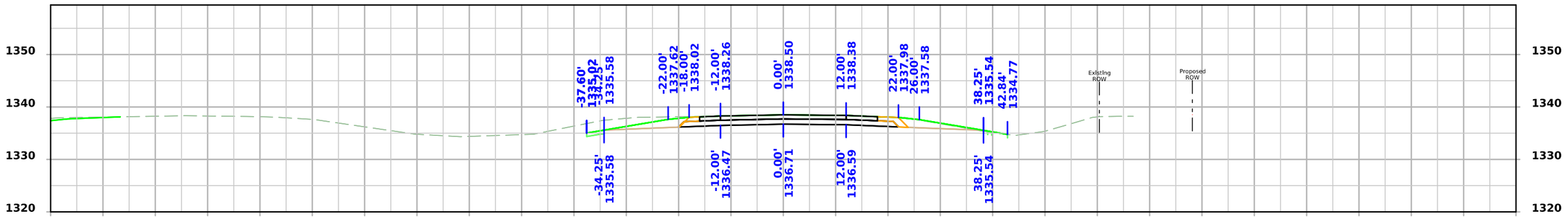
FILE NO.	ENGLISH	DESIGN TEAM Strum/Janus	CLAY COUNTY	PROJECT NUMBER HSIPX-018-2(142)--3H-21	SHEET NUMBER W.14

8:32:01 AM 7/2/2026 ajanus2 pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\2101802023\Design\CADD_Files\Sheet_Files\SHT_21018142_W01.dgn

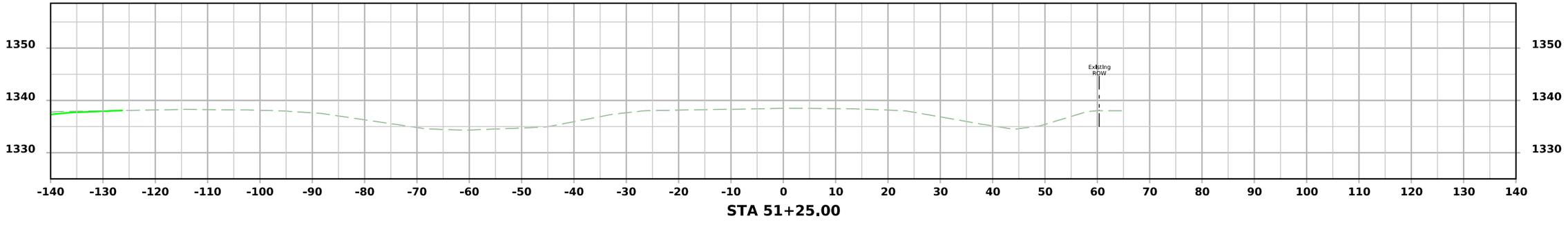
US 71 NB



STA 51+50.00



STA 51+47.09

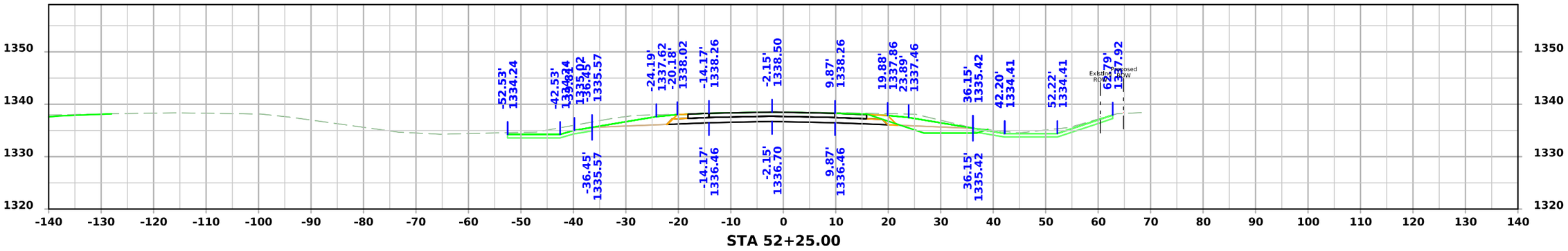


STA 51+25.00

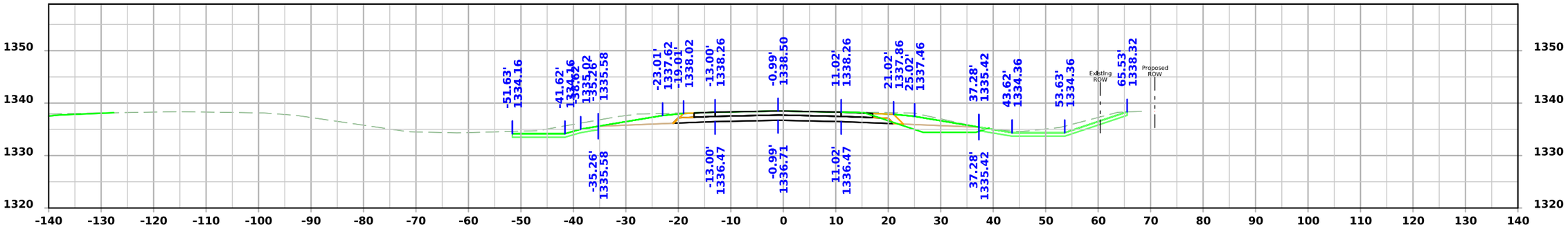
FILE NO.	ENGLISH	DESIGN TEAM Strum/Janus	CLAY COUNTY	PROJECT NUMBER HSIPX-018-2(142)--3H-21	SHEET NUMBER W.15

8:32:07 AM 7/2/2026 ajanus2 pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\2101802023\Design\CADD_Files\Sheet_Files\SHT_21018142_W02.dgn

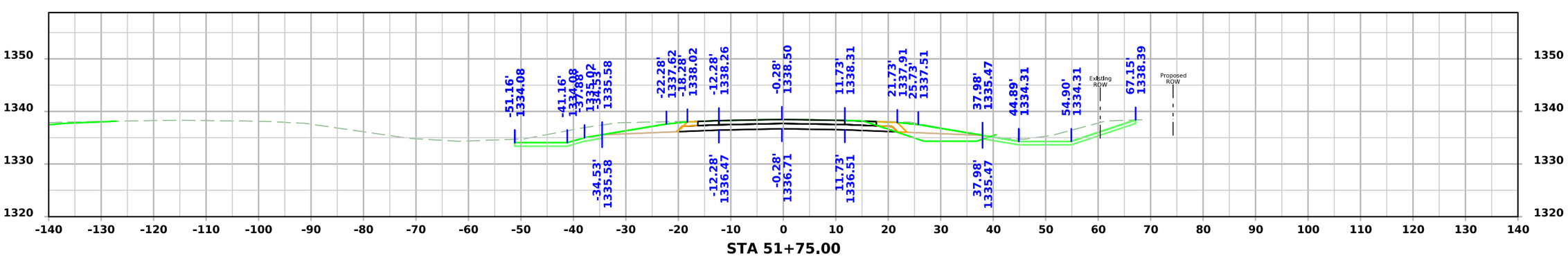
US 71 NB



STA 52+25.00



STA 52+00.00

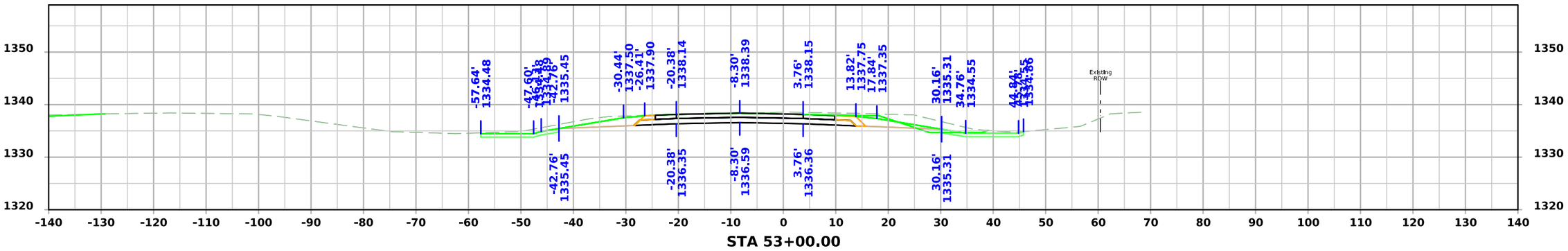


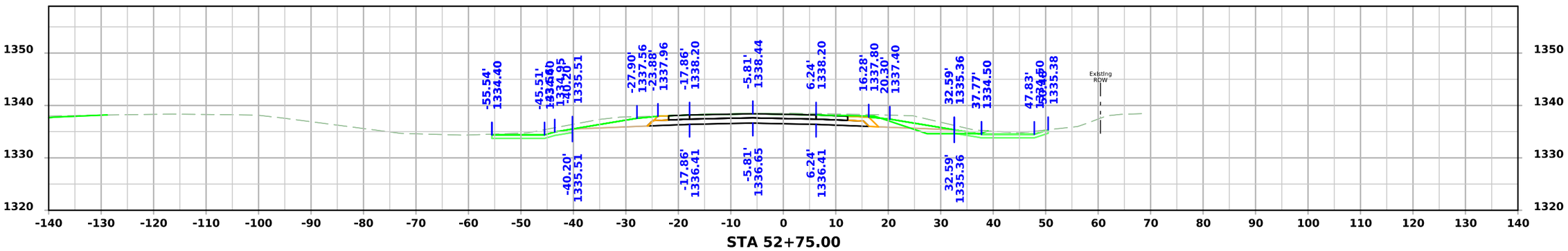
STA 51+75.00

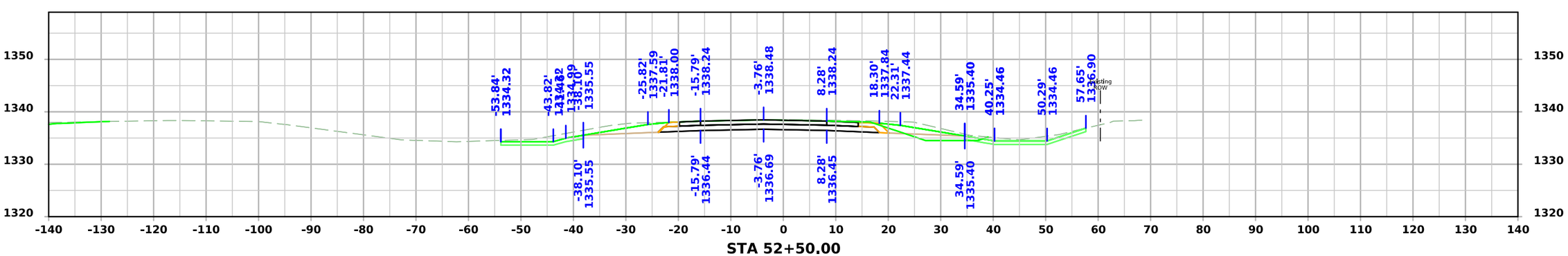
FILE NO.	ENGLISH	DESIGN TEAM Strum/Janus	CLAY COUNTY	PROJECT NUMBER HSIPX-018-2(142)--3H-21	SHEET NUMBER W.16	

8:32:08 AM 7/2/2026 ajanus2 pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\2101802023\Design\CADD_Files\Sheet_Files\SHT_21018142_W02.dgn

US 71 NB



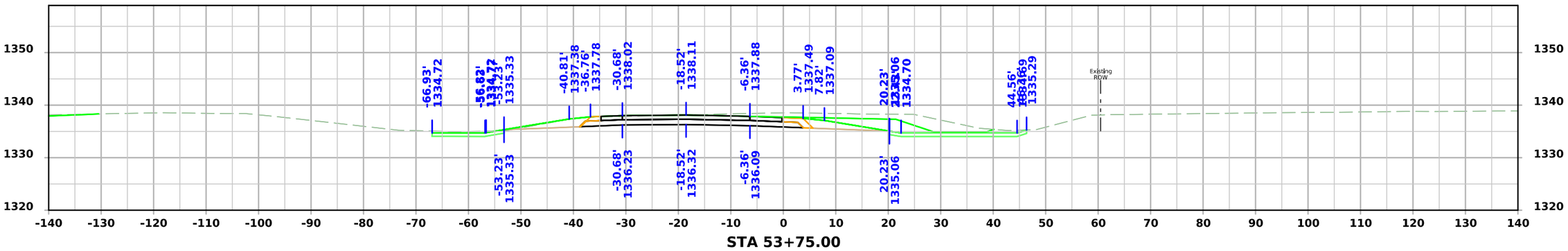




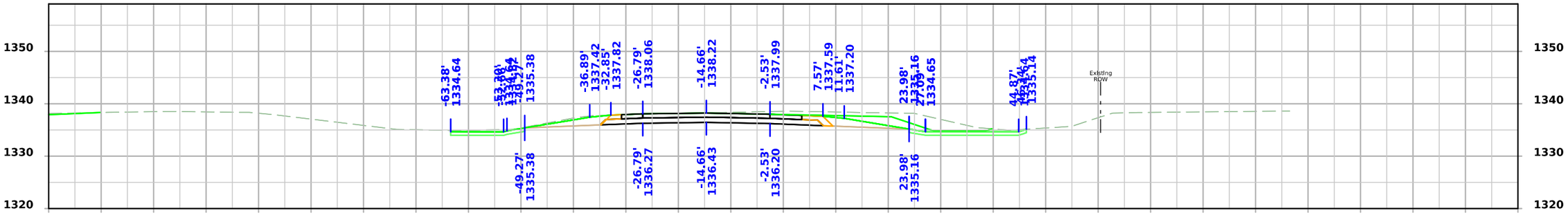
FILE NO.	ENGLISH	DESIGN TEAM Strum/Janus	CLAY COUNTY	PROJECT NUMBER HSIPX-018-2(142)--3H-21	SHEET NUMBER W.17

8:32:09 AM 7/2/2026 ajanus2 pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\2101802023\Design\CADD_Files\Sheet_Files\SHT_21018142_W02.dgn

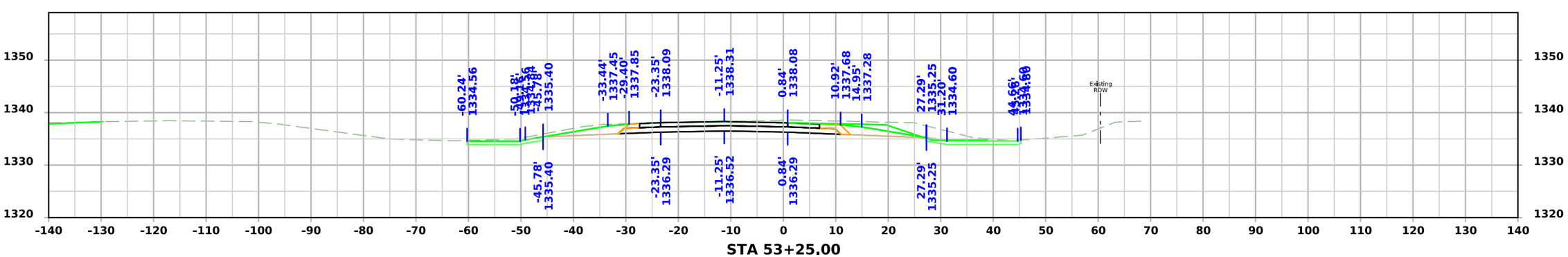
US 71 NB



STA 53+75.00



STA 53+50.00

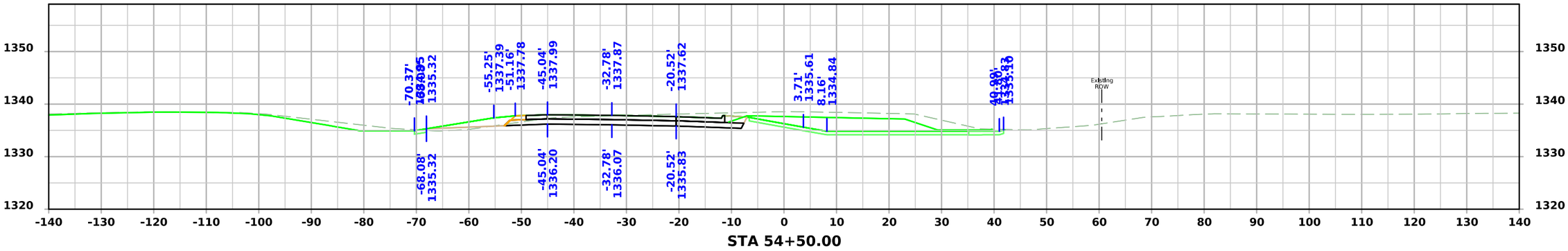


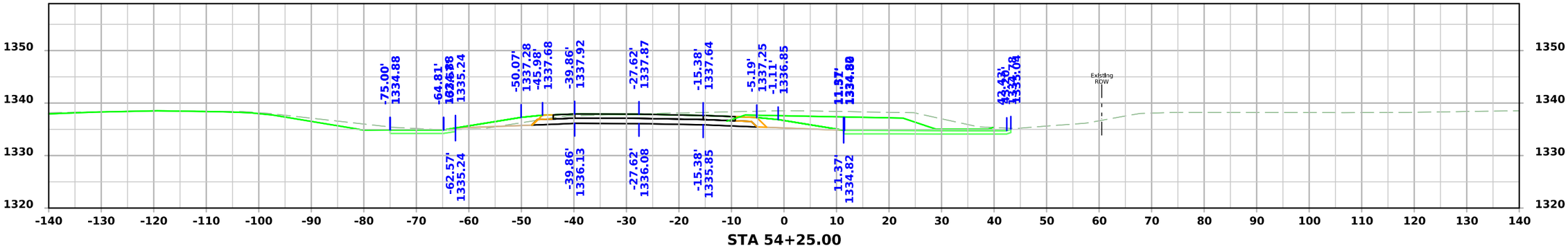
STA 53+25.00

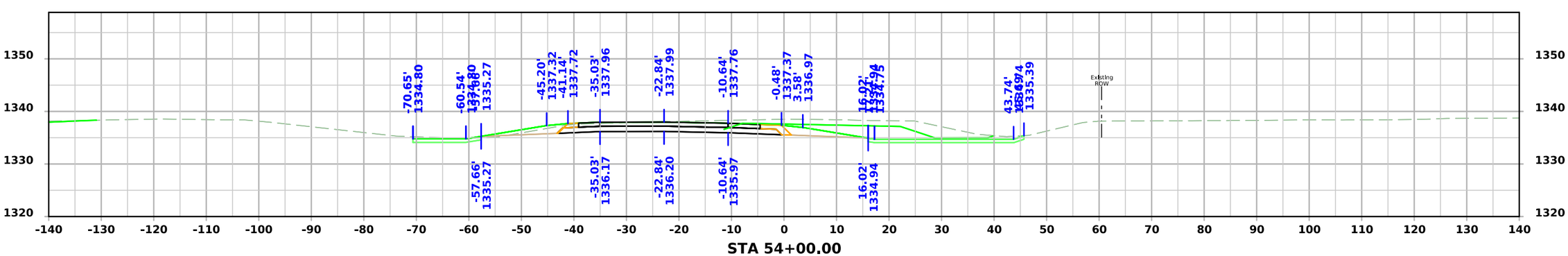
FILE NO.	ENGLISH	DESIGN TEAM Strum/Janus	CLAY COUNTY	PROJECT NUMBER HSIPX-018-2(142)--3H-21	SHEET NUMBER W.18

8:32:10 AM 7/2/2026 ajanus2 pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\2101802023\Design\CADD_Files\Sheet_Files\SHT_21018142_W02.dgn

US 71 NB



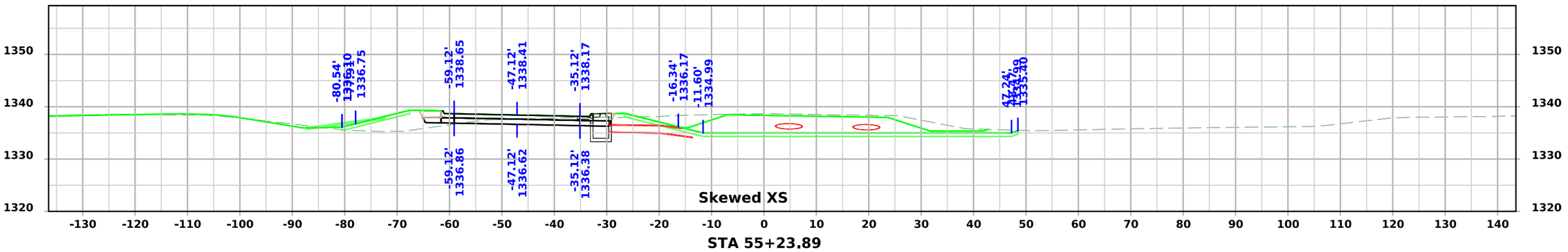




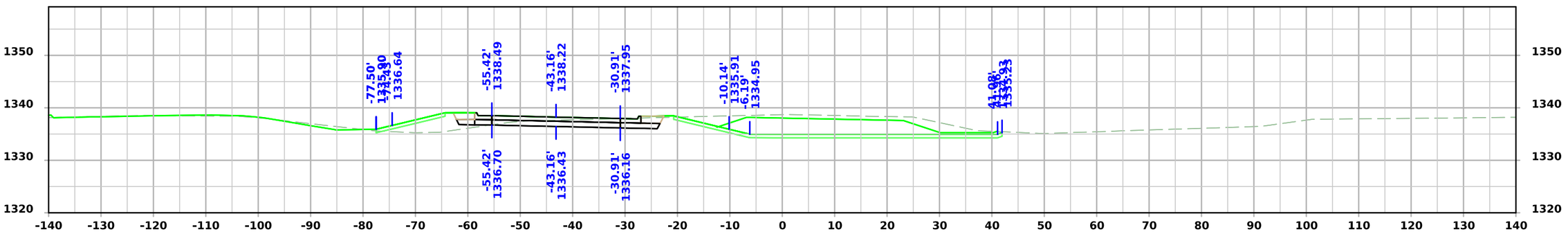
FILE NO.	ENGLISH	DESIGN TEAM Strum/Janus	CLAY COUNTY	PROJECT NUMBER HSIPX-018-2(142)--3H-21	SHEET NUMBER W.19

8:32:11 AM 7/2/2026 ajanus2 pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\2101802023\Design\CADD_Files\Sheet_Files\SHT_21018142_W02.dgn

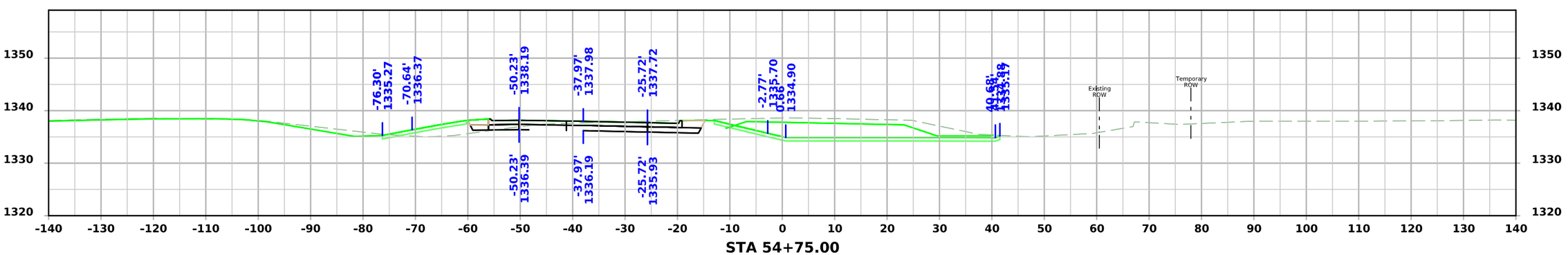
US 71 NB



STA 55+23.89



STA 55+00.00

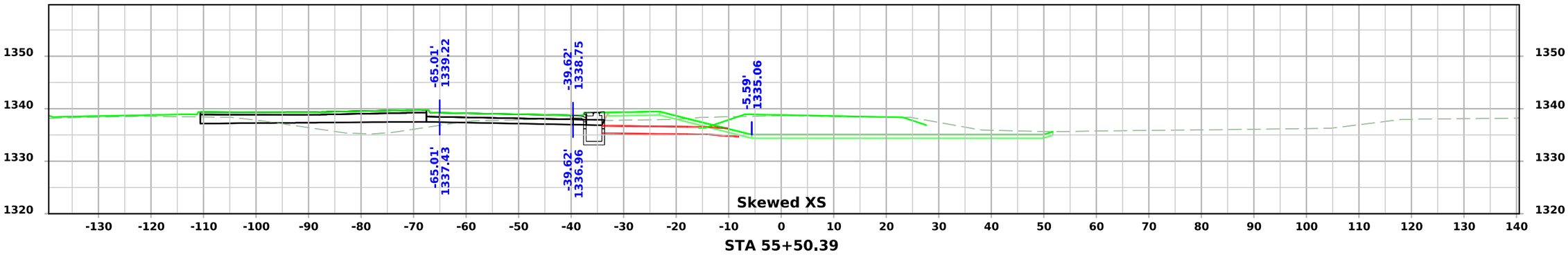


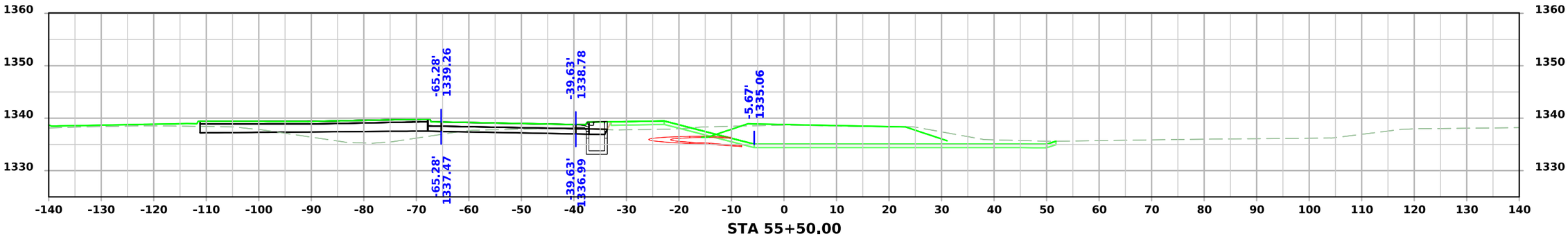
STA 54+75.00

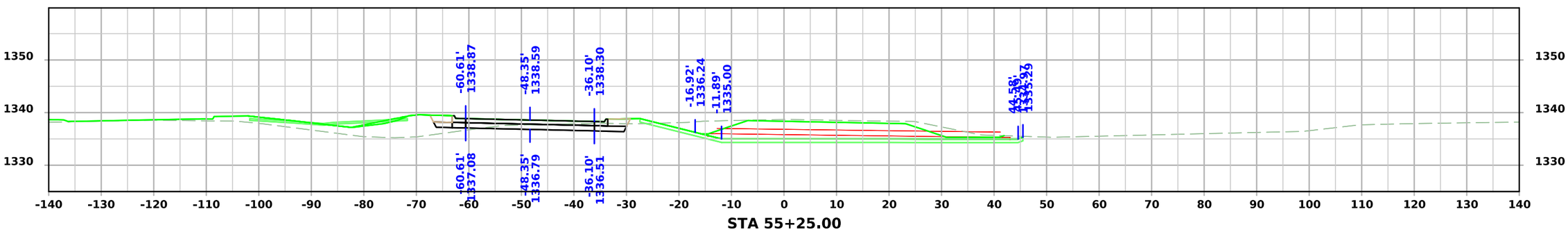
FILE NO.	ENGLISH	DESIGN TEAM Strum/Janus	CLAY COUNTY	PROJECT NUMBER HSIPX-018-2(142)--3H-21	SHEET NUMBER W.20

8:32:13 AM 7/2/2026 ajanus2 pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\2101802023\Design\CADD_Files\Sheet_Files\SHT_21018142_W02.dgn

US 71 NB



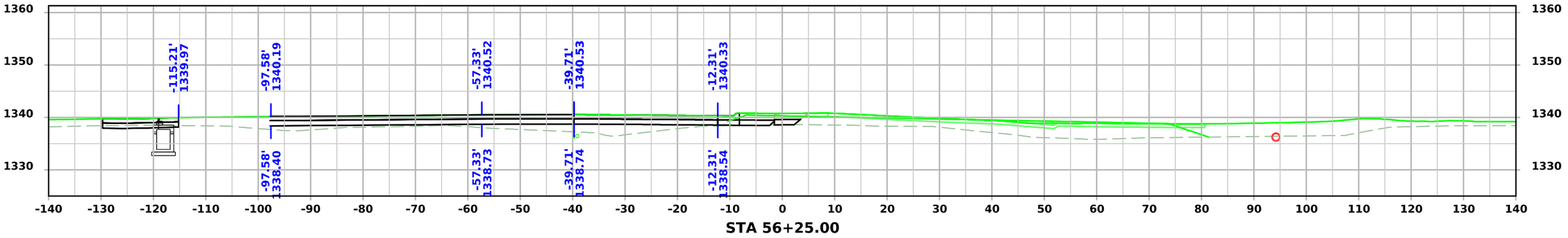




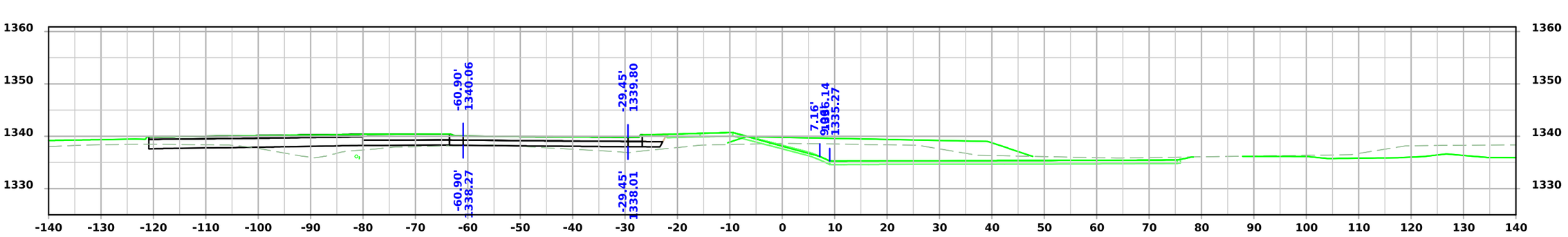
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8:32:14 AM 7/2/2026 ajanus2 pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\2101802023\Design\CADD_Files\Sheet_Files\SHT_21018142_W02.dgn

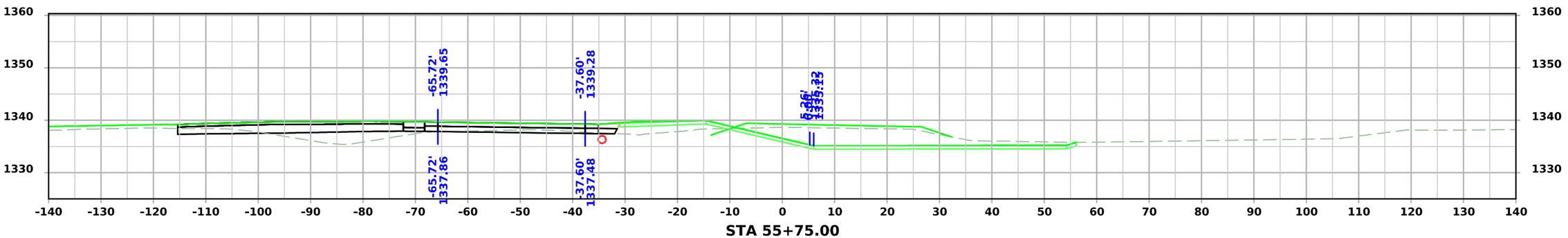
US 71 NB



STA 56+25.00



STA 56+00.00

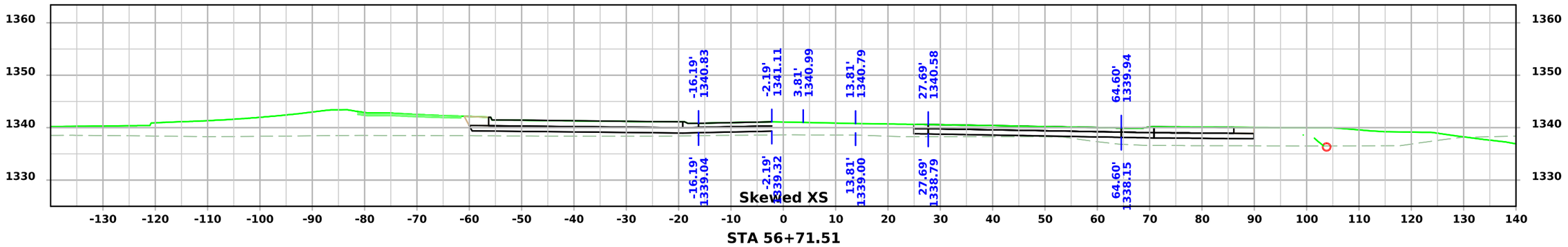


STA 55+75.00

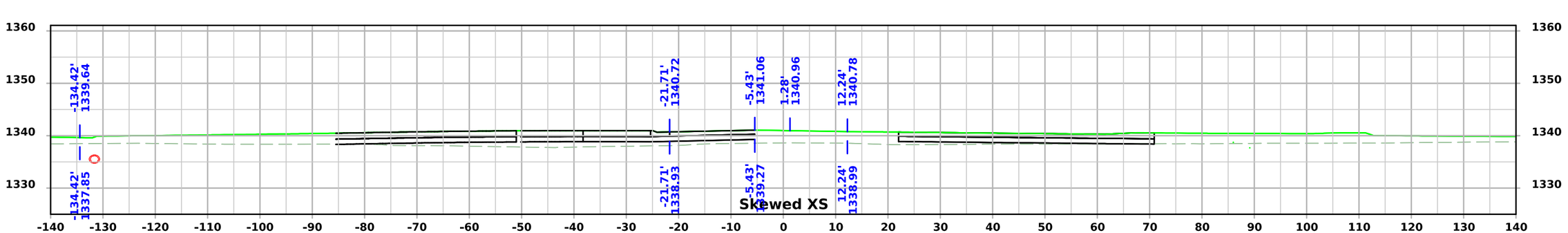
FILE NO.	ENGLISH	DESIGN TEAM Strum/Janus	CLAY COUNTY	PROJECT NUMBER HSIPX-018-2(142)--3H-21	SHEET NUMBER W.22

8:32:15 AM 7/2/2026 ajanus2 pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\2101802023\Design\CADD_Files\Sheet_Files\SHT_21018142_W02.dgn

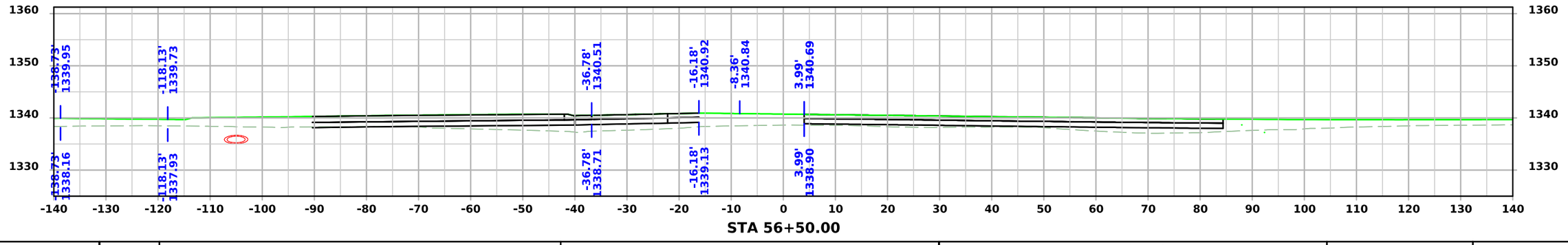
US 71 NB



STA 56+71.51



STA 56+65.21

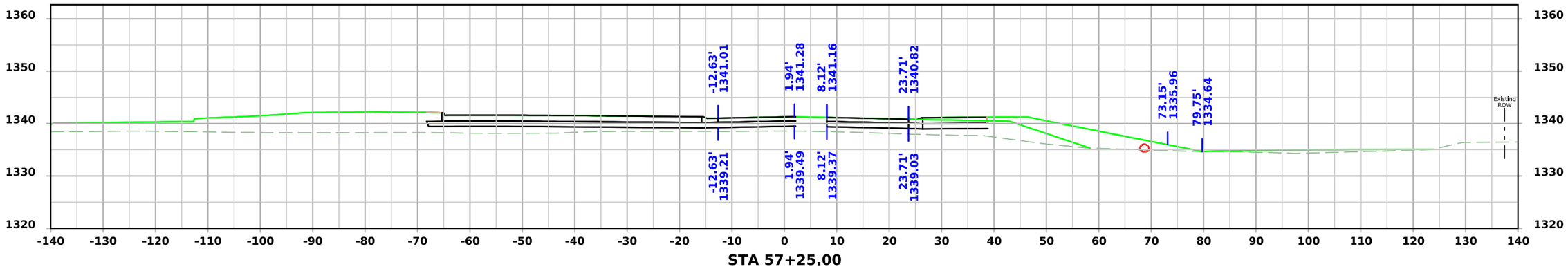


STA 56+50.00

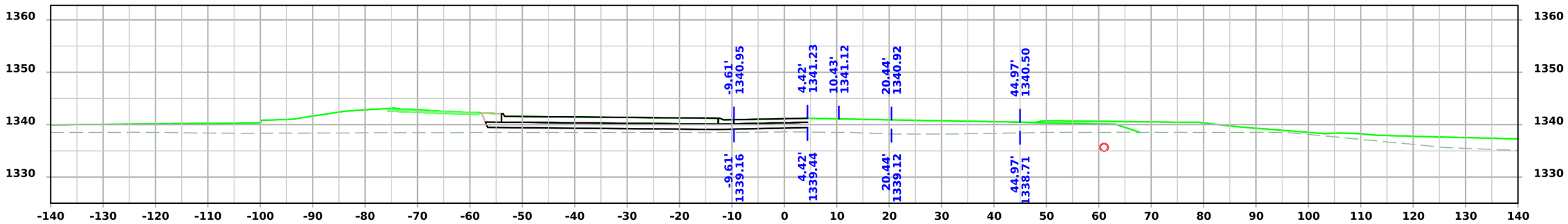
FILE NO.	ENGLISH	DESIGN TEAM Strum/Janus	CLAY COUNTY	PROJECT NUMBER HSIPX-018-2(142)--3H-21	SHEET NUMBER W.23

8:32:16 AM 7/2/2026 ajanus2 pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\2101802023\Design\CADD_Files\Sheet_Files\SHT_21018142_W02.dgn

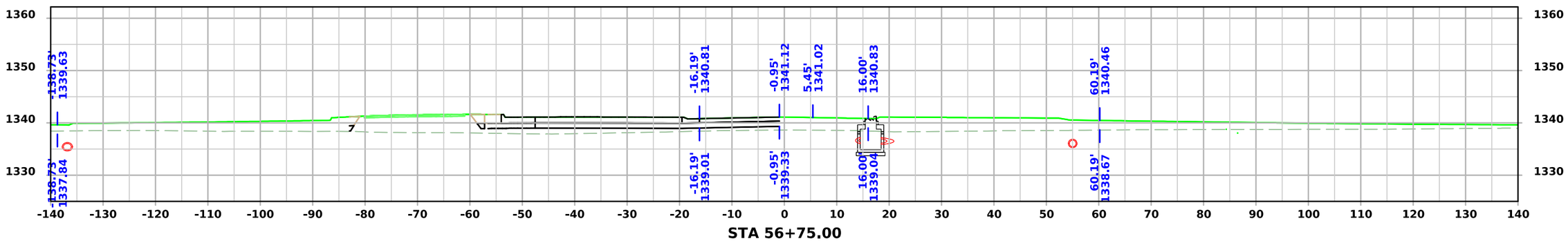
US 71 NB



STA 57+25.00



STA 57+00.00

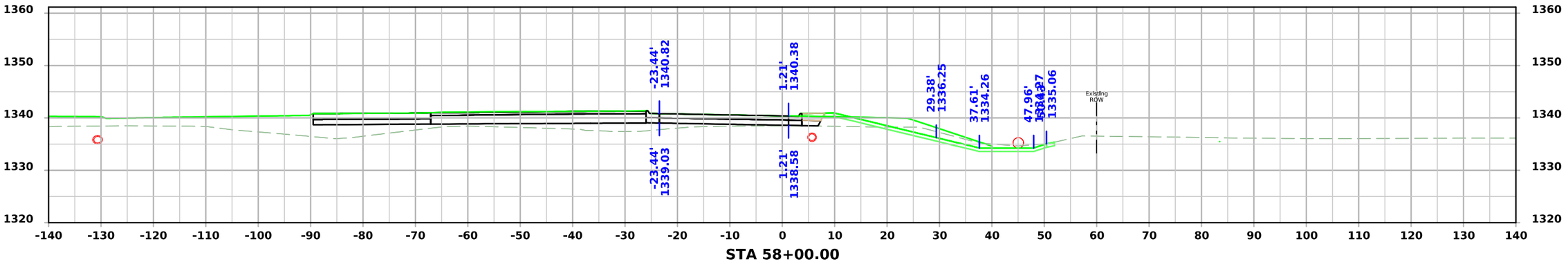


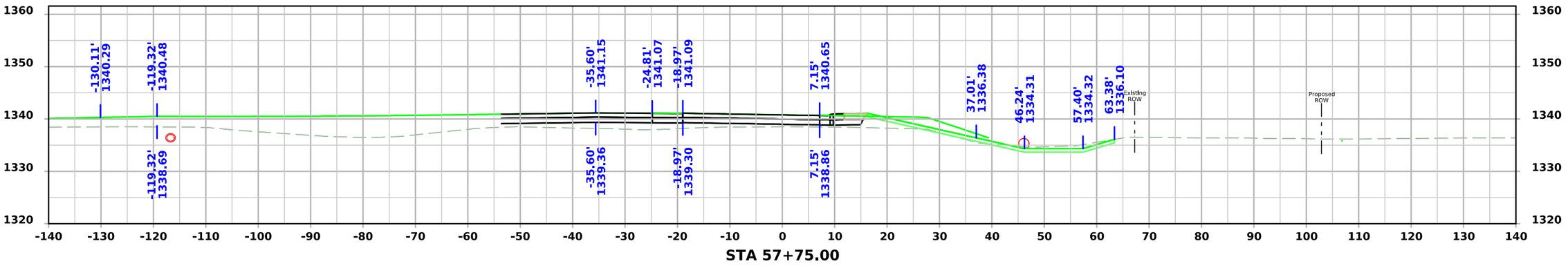
STA 56+75.00

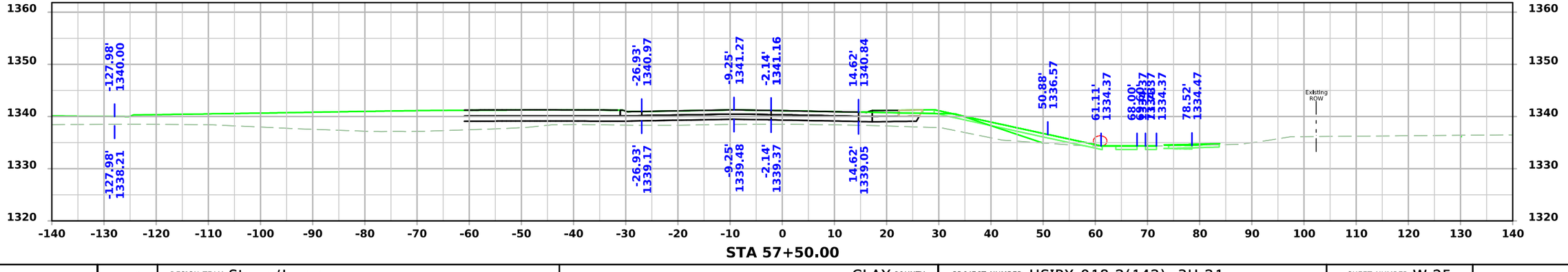
FILE NO.	ENGLISH	DESIGN TEAM Strum/Janus	CLAY COUNTY	PROJECT NUMBER HSIPX-018-2(142)--3H-21	SHEET NUMBER W.24

8:32:17 AM 7/2/2026 ajanus2 pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\2101802023\Design\CADD_Files\Sheet_Files\SHT_21018142_W02.dgn

US 71 NB



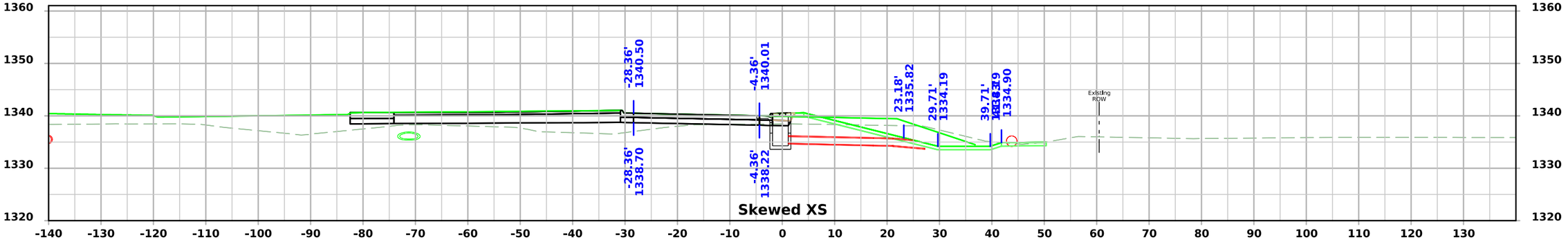




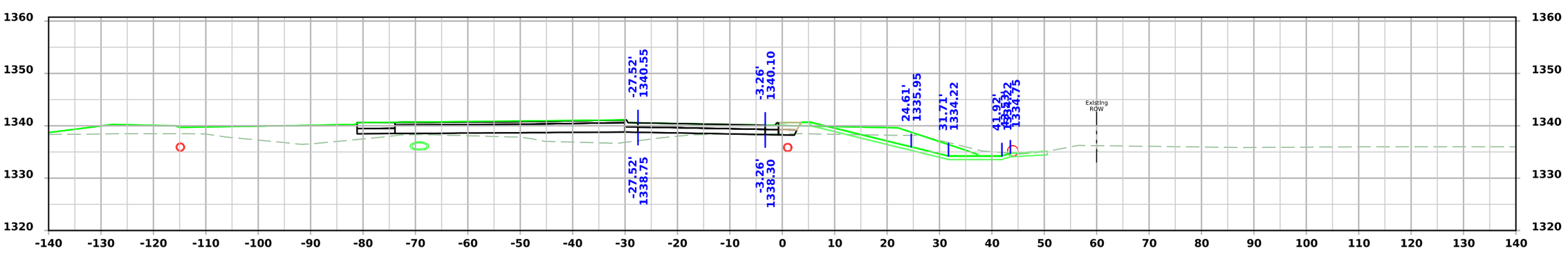
FILE NO.	ENGLISH	DESIGN TEAM Strum/Janus	CLAY COUNTY	PROJECT NUMBER HSIPX-018-2(142)--3H-21	SHEET NUMBER W.25

8:32:18 AM 7/2/2026 ajanus2 pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\2101802023\Design\CADD_Files\Sheet_Files\SHT_21018142_W02.dgn

US 71 NB



STA 58+33.12

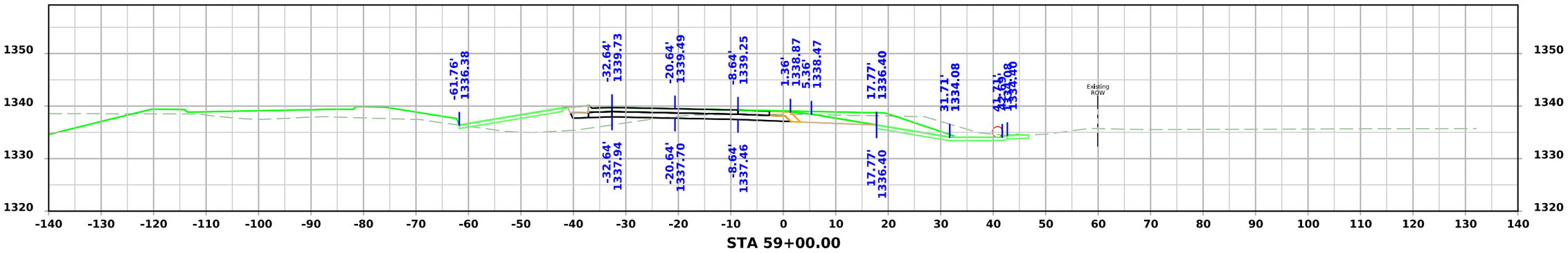


STA 58+25.00

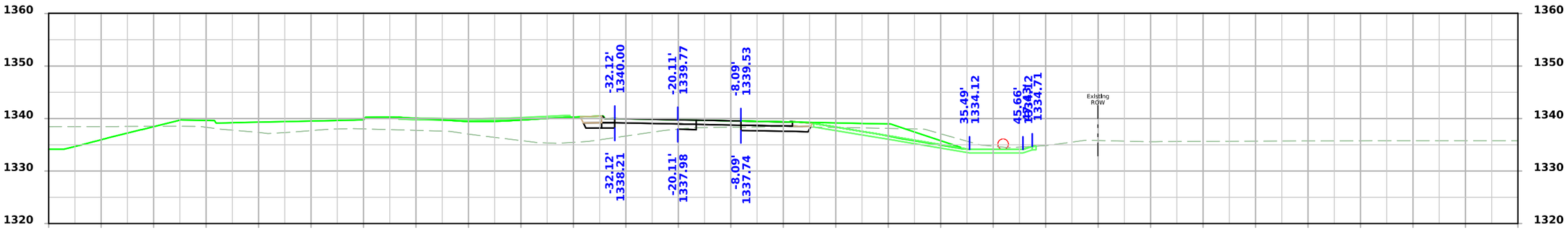
FILE NO.	ENGLISH	DESIGN TEAM Strum/Janus	CLAY COUNTY	PROJECT NUMBER HSIPX-018-2(142)--3H-21	SHEET NUMBER W.26

8:32:19 AM 7/2/2026 ajanus2 pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\2101802023\Design\CADD_Files\Sheet_Files\SHT_21018142_W02.dgn

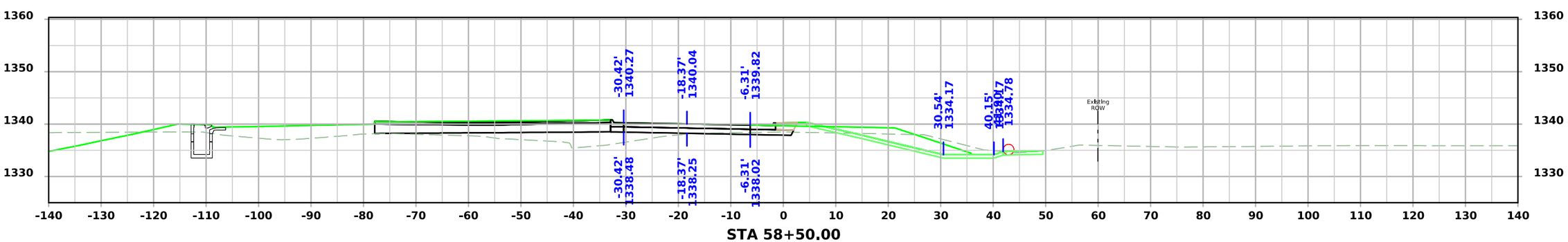
US 71 NB



STA 59+00.00



STA 58+75.00

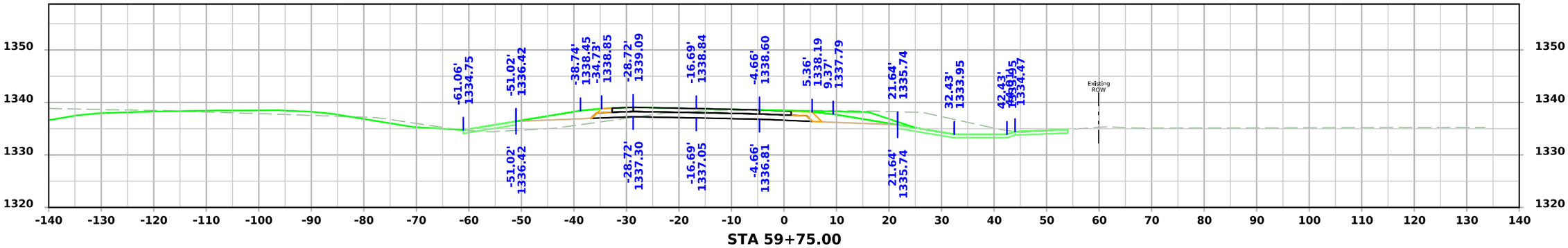


STA 58+50.00

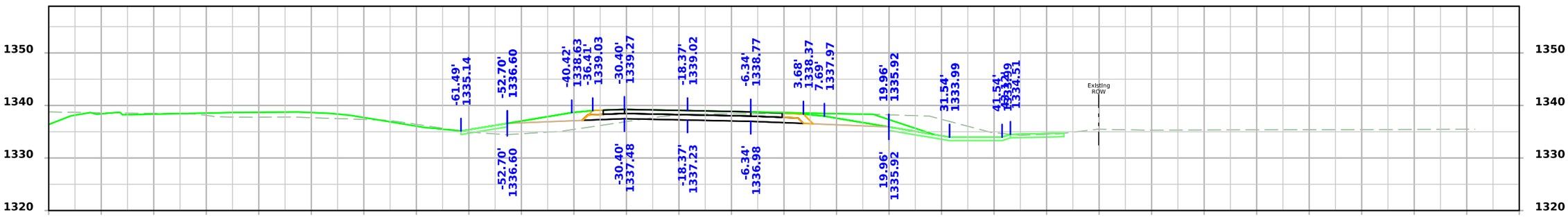
FILE NO.	ENGLISH	DESIGN TEAM Strum/Janus	CLAY COUNTY	PROJECT NUMBER HSIPX-018-2(142)--3H-21	SHEET NUMBER W.27

8:32:21 AM 7/2/2026 ajanus2 pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\2101802023\Design\CADD_Files\Sheet_Files\SHT_21018142_W02.dgn

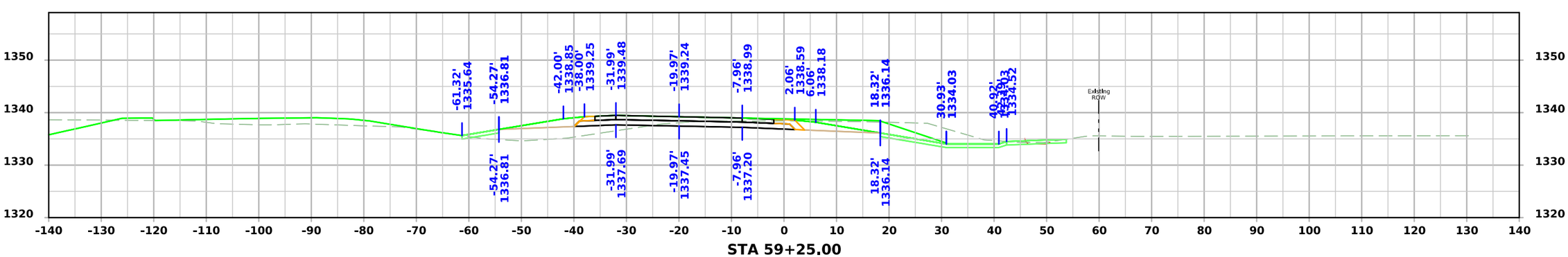
US 71 NB



STA 59+75.00



STA 59+50.00

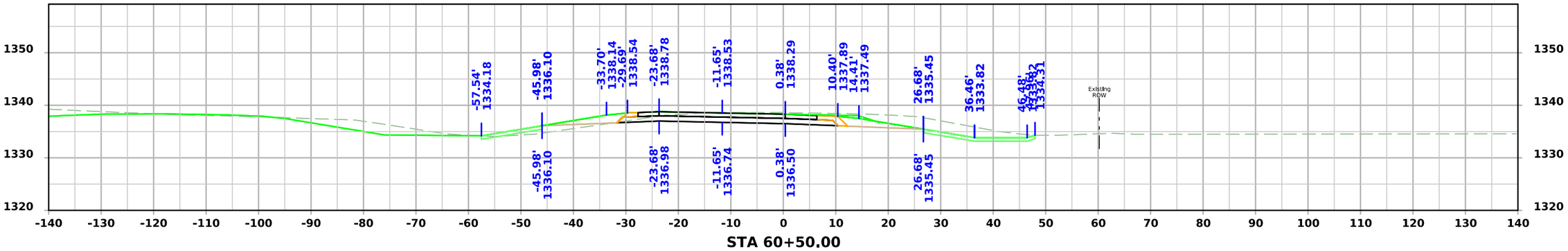


STA 59+25.00

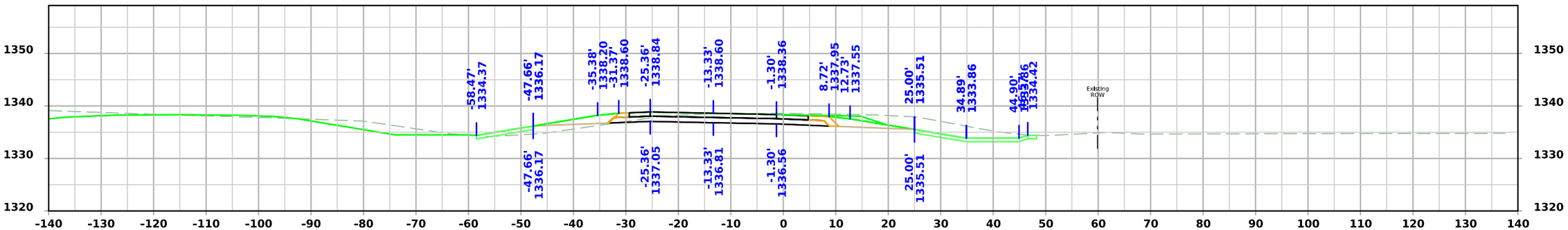
FILE NO.	ENGLISH	DESIGN TEAM Strum/Janus	CLAY COUNTY	PROJECT NUMBER HSIPX-018-2(142)--3H-21	SHEET NUMBER W.28

8:32:22 AM 7/2/2026 ajanus2 pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\2101802023\Design\CADD_Files\Sheet_Files\SHT_21018142_W02.dgn

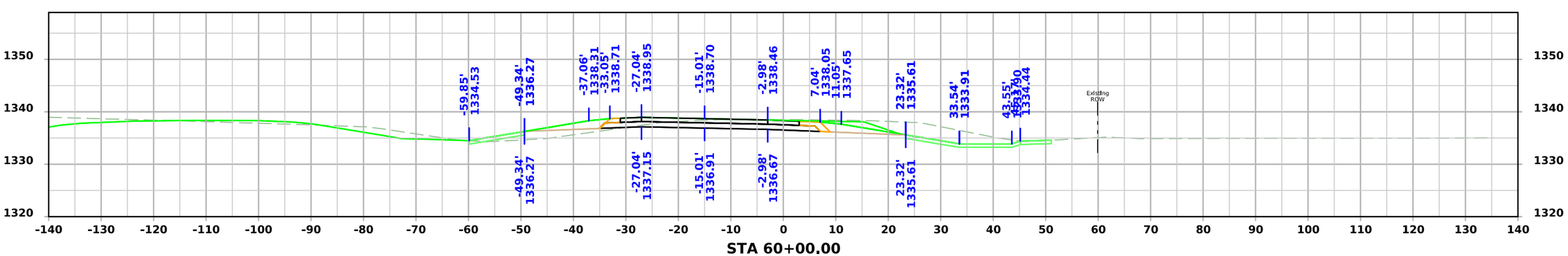
US 71 NB



STA 60+50.00



STA 60+25.00

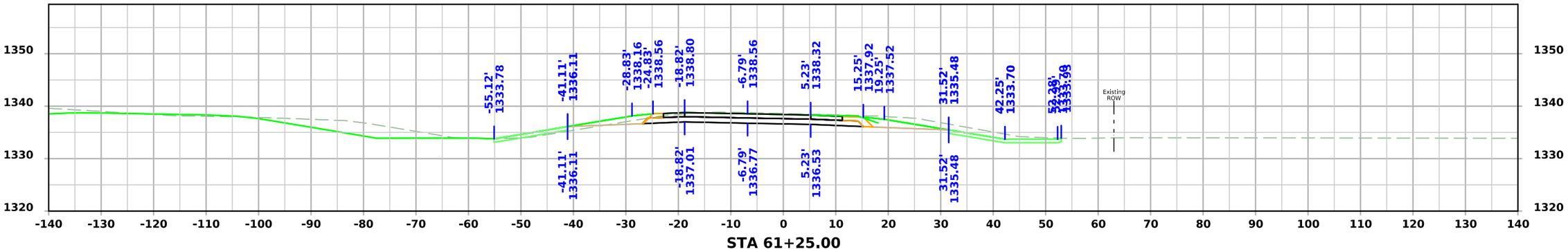


STA 60+00.00

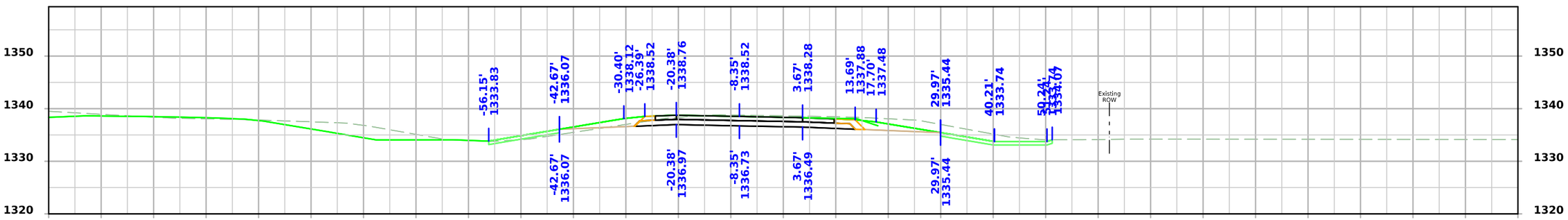
FILE NO.	ENGLISH	DESIGN TEAM Strum/Janus	CLAY COUNTY	PROJECT NUMBER HSIPX-018-2(142)--3H-21	SHEET NUMBER W.29

8:32:23 AM 7/2/2026 ajanus2 pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\2101802023\Design\CADD_Files\Sheet_Files\SHT_21018142_W02.dgn

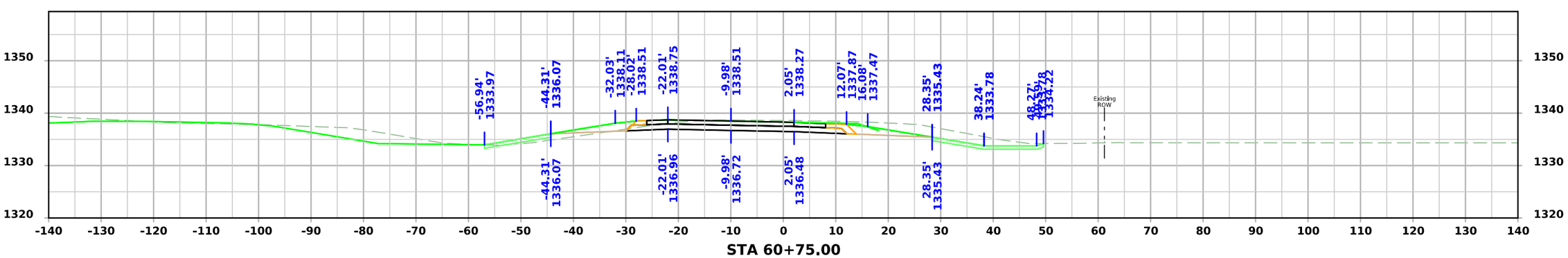
US 71 NB



STA 61+25.00



STA 61+00.00

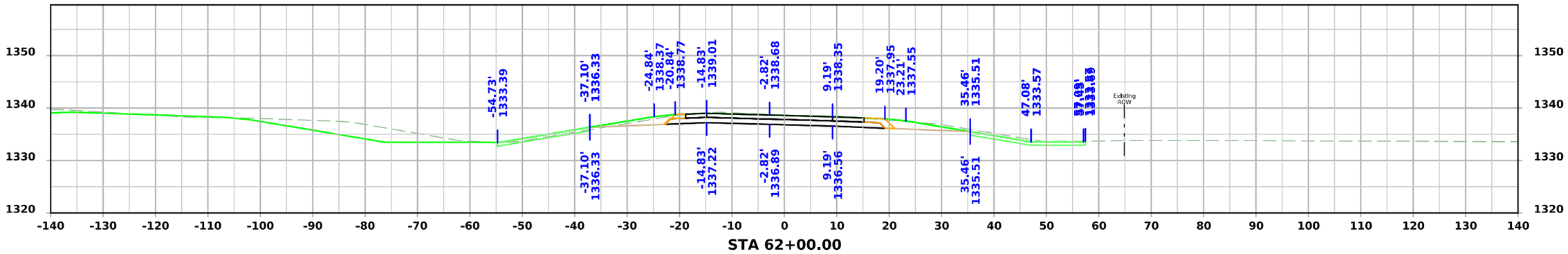


STA 60+75.00

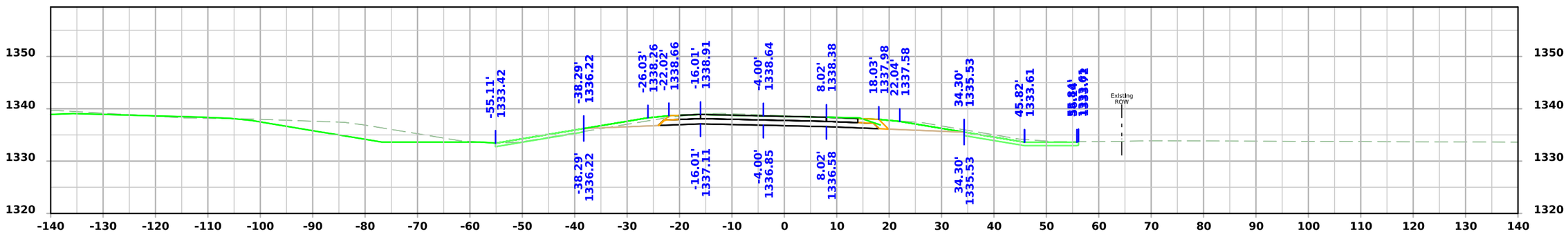
FILE NO.	ENGLISH	DESIGN TEAM Strum/Janus	CLAY COUNTY	PROJECT NUMBER HSIPX-018-2(142)--3H-21	SHEET NUMBER W.30

8:32:24 AM 7/2/2026 ajanus2 pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\2101802023\Design\CADD_Files\Sheet_Files\SHT_21018142_W02.dgn

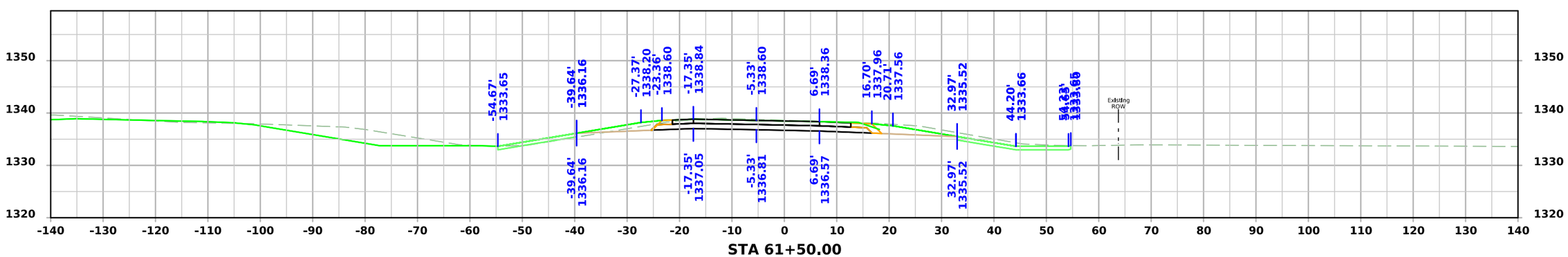
US 71 NB



STA 62+00.00



STA 61+75.00

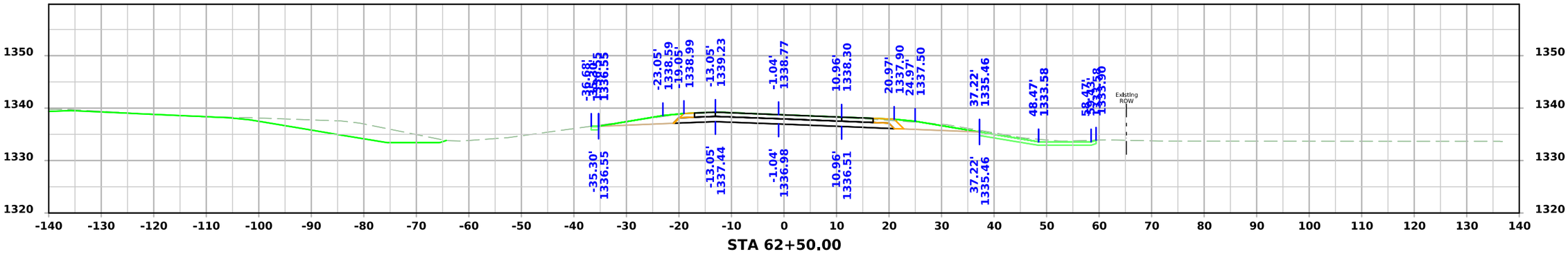


STA 61+50.00

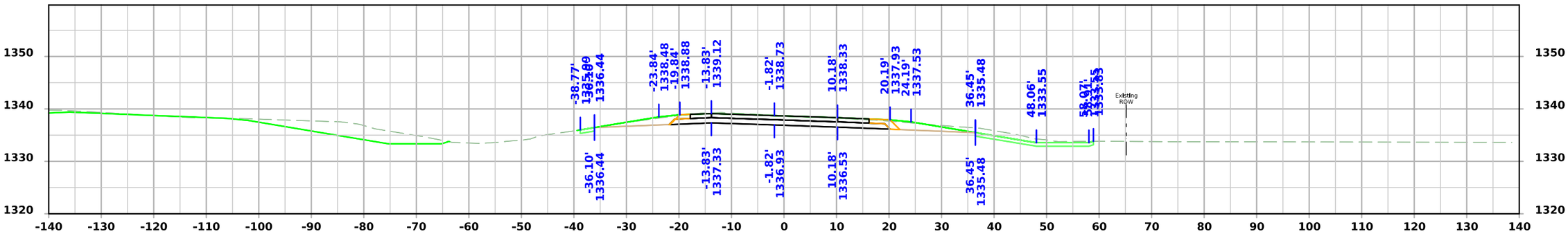
FILE NO.	ENGLISH	DESIGN TEAM Strum/Janus	CLAY COUNTY	PROJECT NUMBER HSIPX-018-2(142)--3H-21	SHEET NUMBER W.31

8:32:25 AM 7/2/2026 ajanus2 pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\2101802023\Design\CADD_Files\Sheet_Files\SHT_21018142_W02.dgn

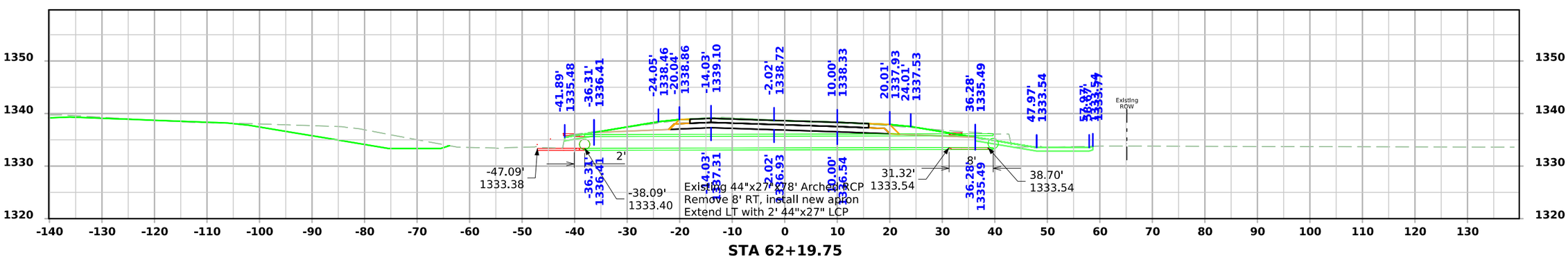
US 71 NB



STA 62+50.00



STA 62+25.00

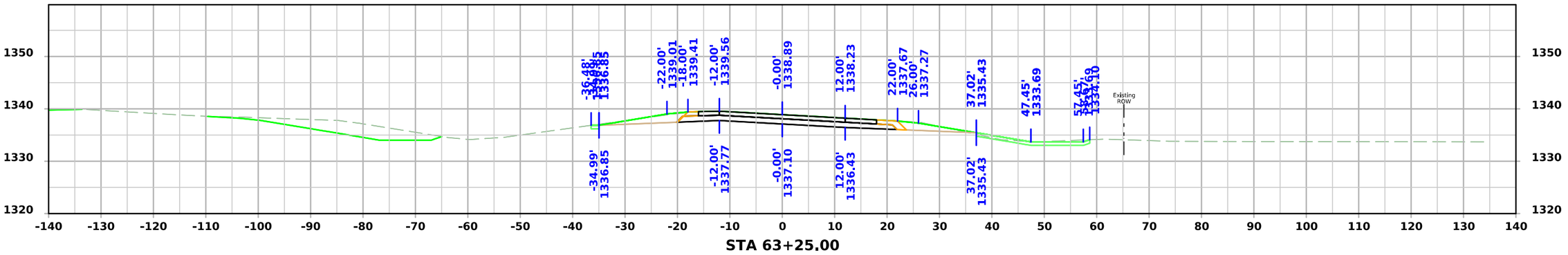


STA 62+19.75

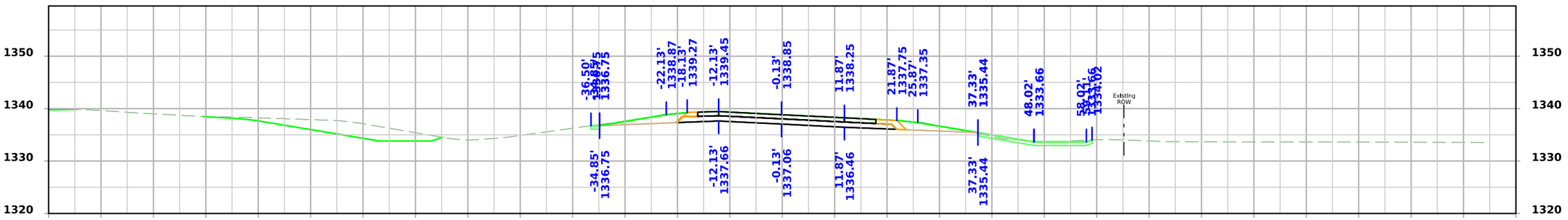
FILE NO.	ENGLISH	DESIGN TEAM Strum/Janus	CLAY COUNTY	PROJECT NUMBER HSIPX-018-2(142)--3H-21	SHEET NUMBER W.32

8:32:26 AM 7/2/2026 ajanus2 pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\2101802023\Design\CADD_Files\Sheet_Files\SHT_21018142_W02.dgn

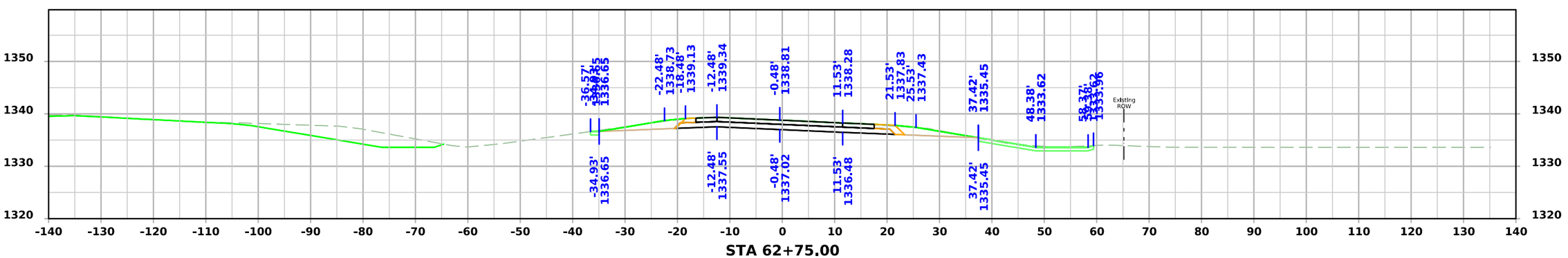
US 71 NB



STA 63+25.00



STA 63+00.00

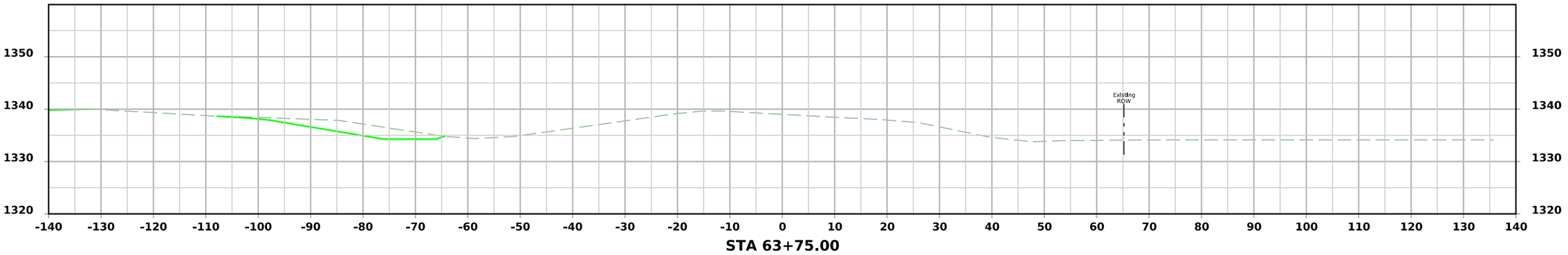


STA 62+75.00

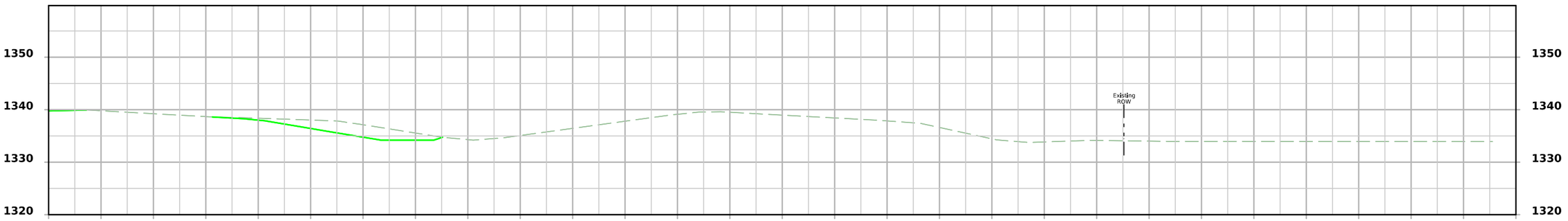
FILE NO.	ENGLISH	DESIGN TEAM Strum/Janus	CLAY COUNTY	PROJECT NUMBER HSIPX-018-2(142)--3H-21	SHEET NUMBER W.33

8:32:27 AM 7/2/2026 ajanus2 pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\2101802023\Design\CADD_Files\Sheet_Files\SHT_21018142_W02.dgn

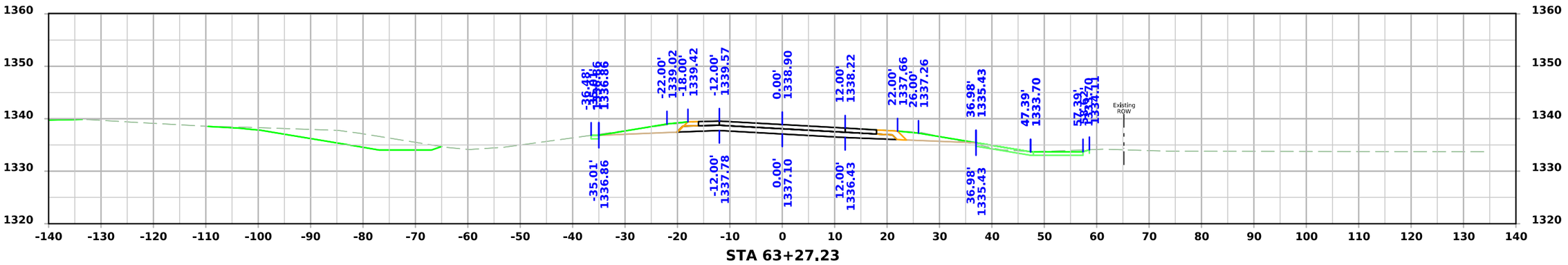
US 71 NB



STA 63+75.00



STA 63+50.00

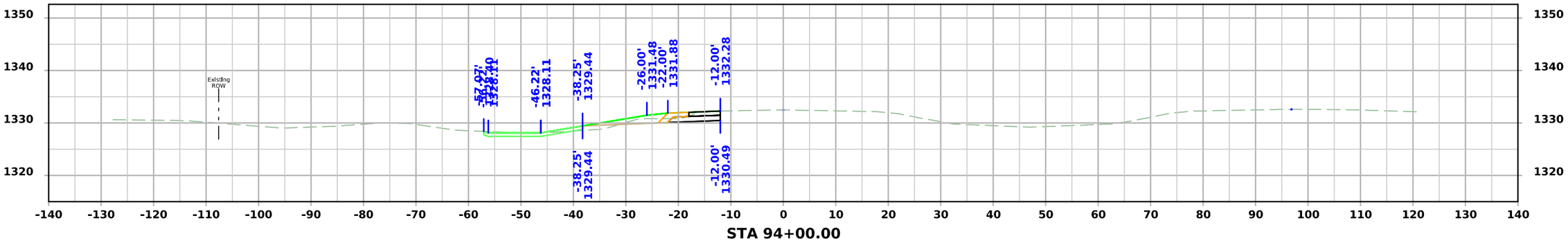


STA 63+27.23

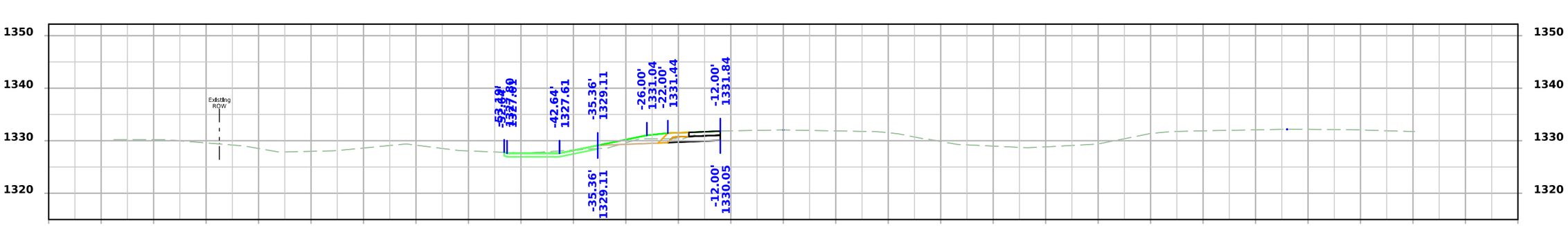
FILE NO.	ENGLISH	DESIGN TEAM Strum/Janus	CLAY COUNTY	PROJECT NUMBER HSIPX-018-2(142)--3H-21	SHEET NUMBER W.34

8:32:28 AM 7/2/2026 ajanus2 pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\2101802023\Design\CADD_Files\Sheet_Files\SHT_21018142_W02.dgn

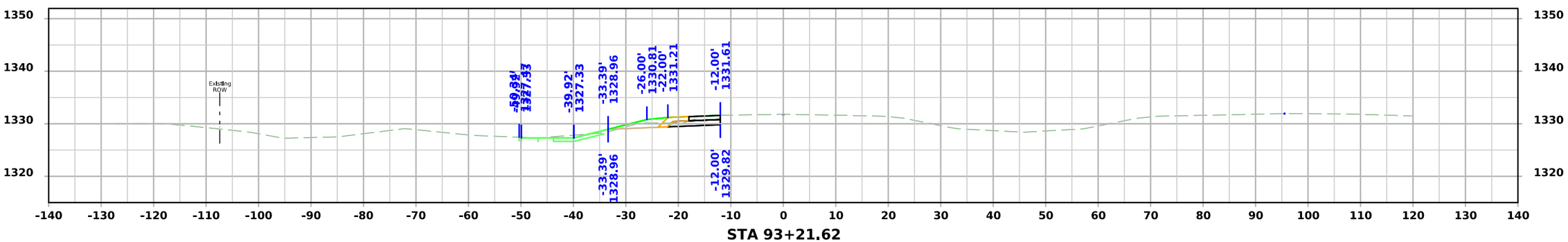
US 71 SB



STA 94+00.00



STA 93+50.00

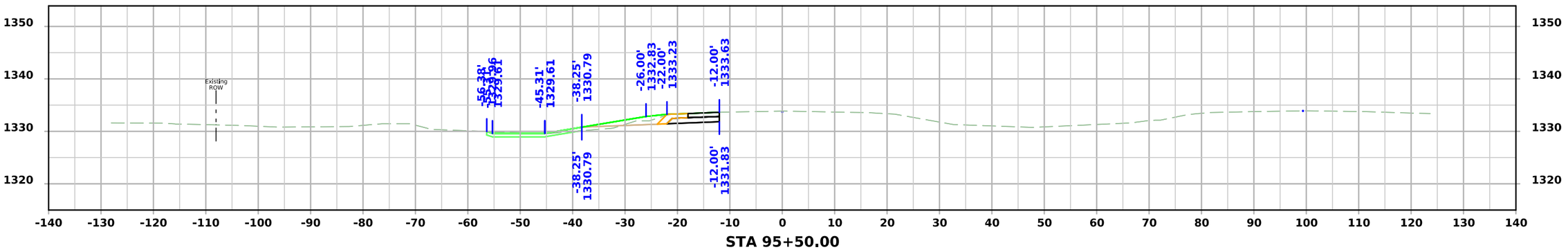


STA 93+21.62

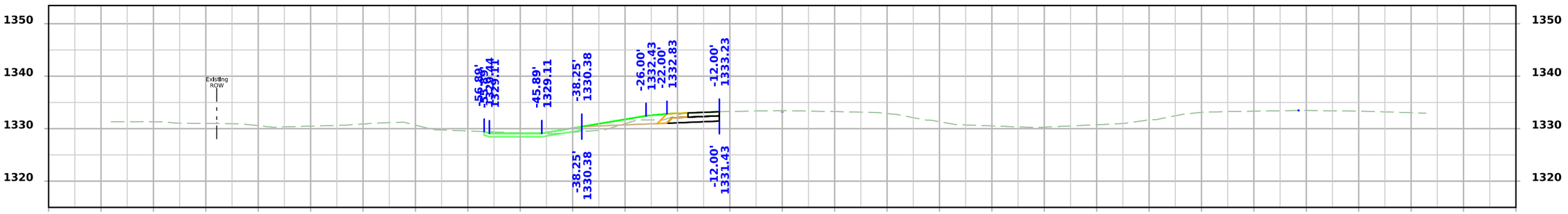
FILE NO.	ENGLISH	DESIGN TEAM Strum/Janus	CLAY COUNTY	PROJECT NUMBER HSIPX-018-2(142)--3H-21	SHEET NUMBER W.35

8:32:35 AM 7/2/2026 ajanus2 pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\2101802023\Design\CADD_Files\Sheet_Files\SHT_21018142_W03.dgn

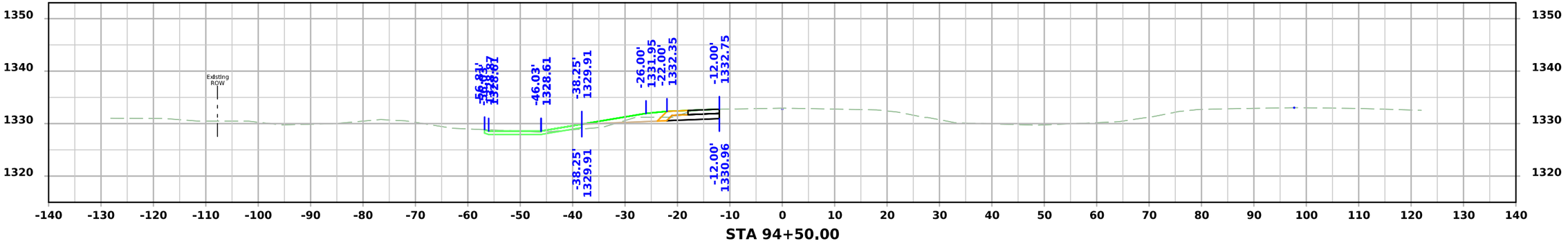
US 71 SB



STA 95+50.00



STA 95+00.00

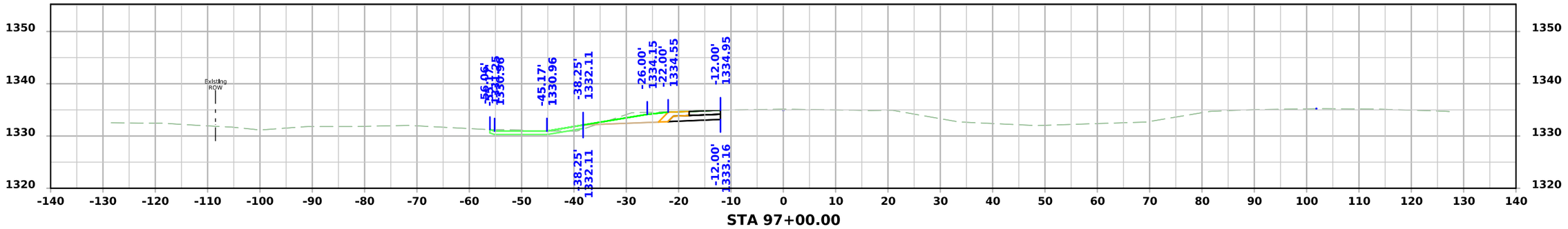


STA 94+50.00

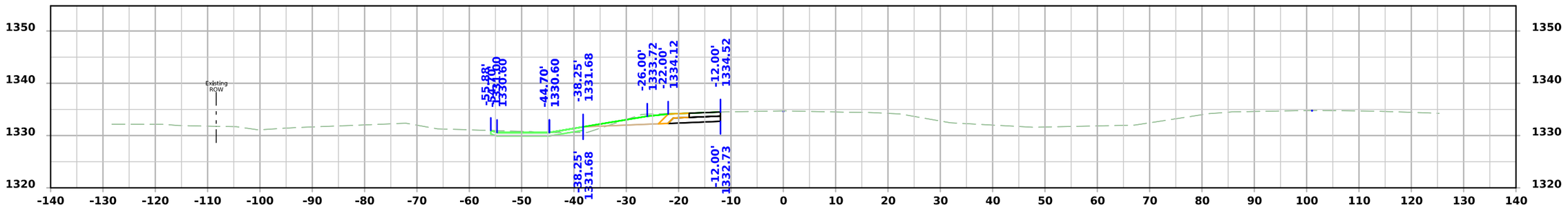
FILE NO.	ENGLISH	DESIGN TEAM Strum/Janus	CLAY COUNTY	PROJECT NUMBER HSIPX-018-2(142)--3H-21	SHEET NUMBER W.36

8:32:36 AM 7/2/2026 ajanus2 pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\2101802023\Design\CADD_Files\Sheet_Files\SHT_21018142_W03.dgn

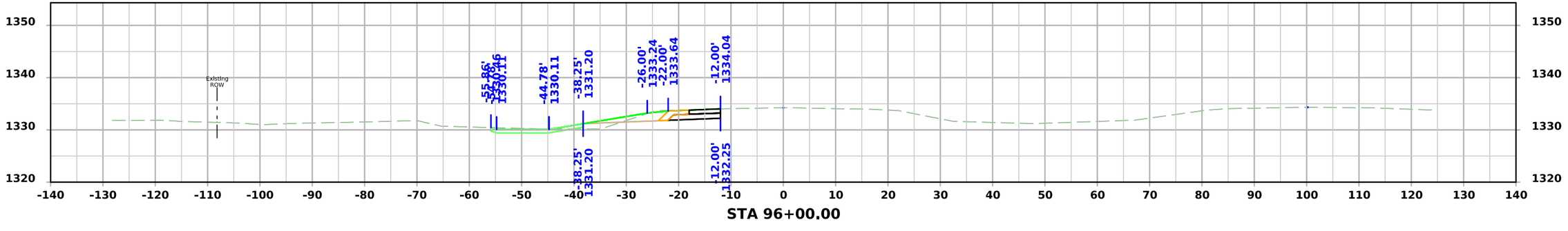
US 71 SB



STA 97+00.00



STA 96+50.00

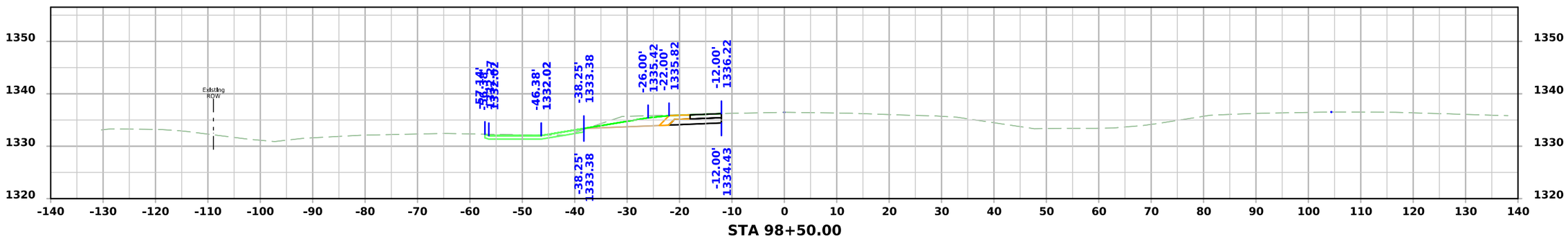


STA 96+00.00

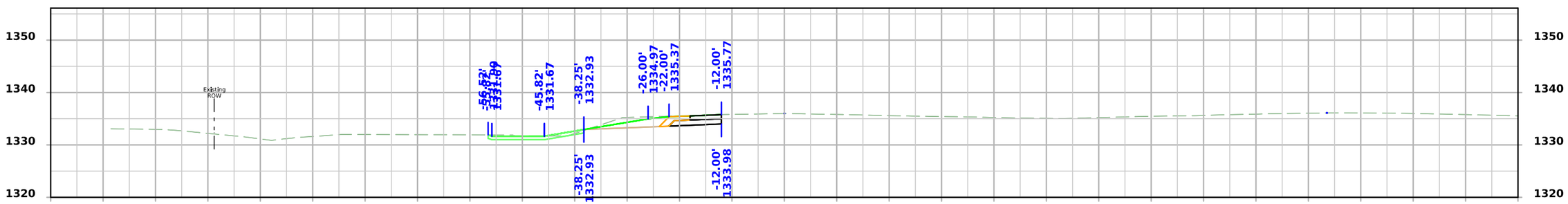
FILE NO.	ENGLISH	DESIGN TEAM Strum/Janus	CLAY COUNTY	PROJECT NUMBER HSIPX-018-2(142)--3H-21	SHEET NUMBER W.37

8:32:37 AM 7/2/2026 ajanus2 pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\2101802023\Design\CADD_Files\Sheet_Files\SHT_21018142_W03.dgn

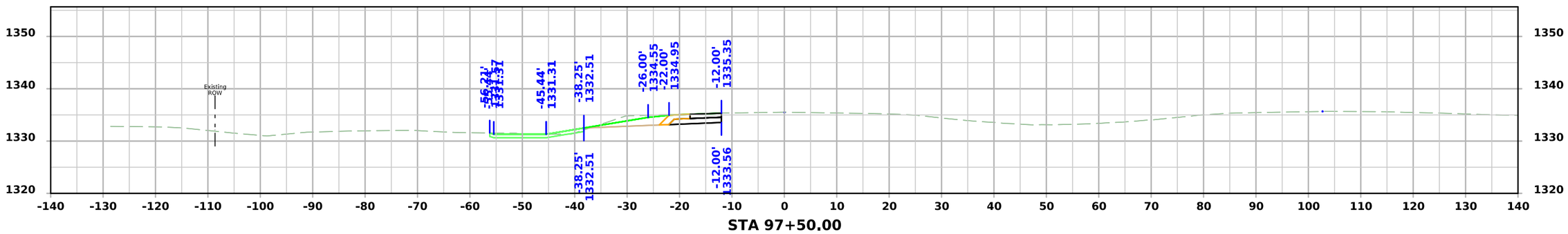
US 71 SB



STA 98+50.00



STA 98+00.00

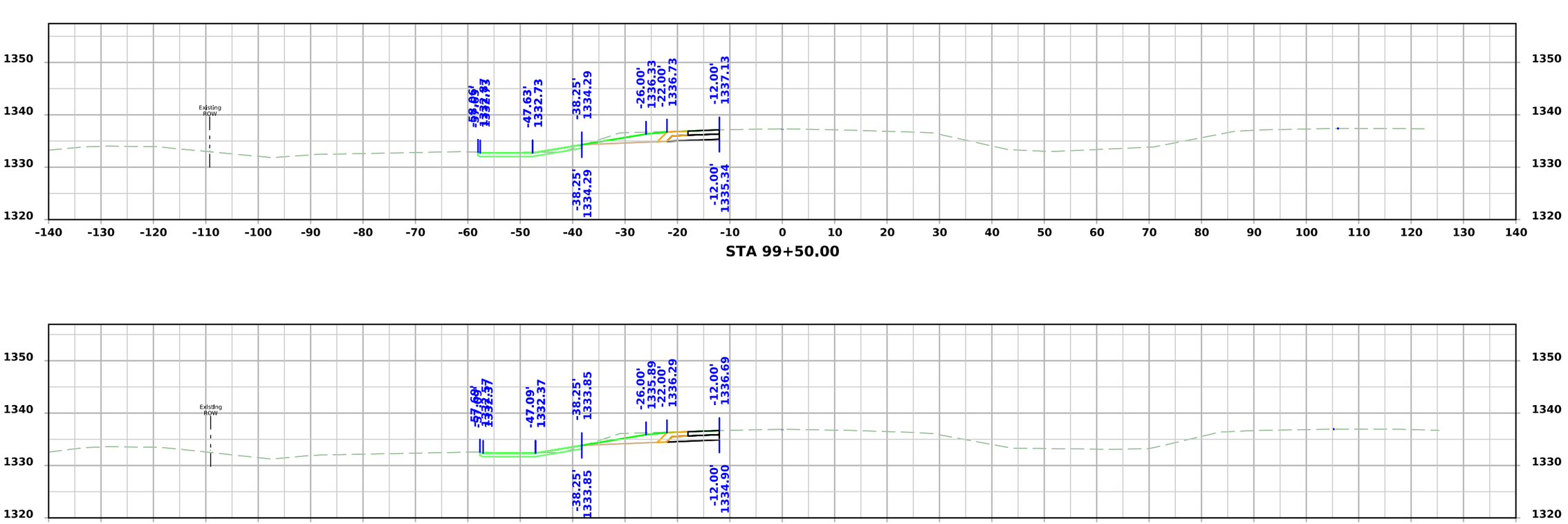


STA 97+50.00

FILE NO.	ENGLISH	DESIGN TEAM Strum/Janus	CLAY COUNTY	PROJECT NUMBER HSIPX-018-2(142)--3H-21	SHEET NUMBER W.38

8:32:38 AM 7/2/2026 ajanus2 pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\2101802023\Design\CADD_Files\Sheet_Files\SHT_21018142_W03.dgn

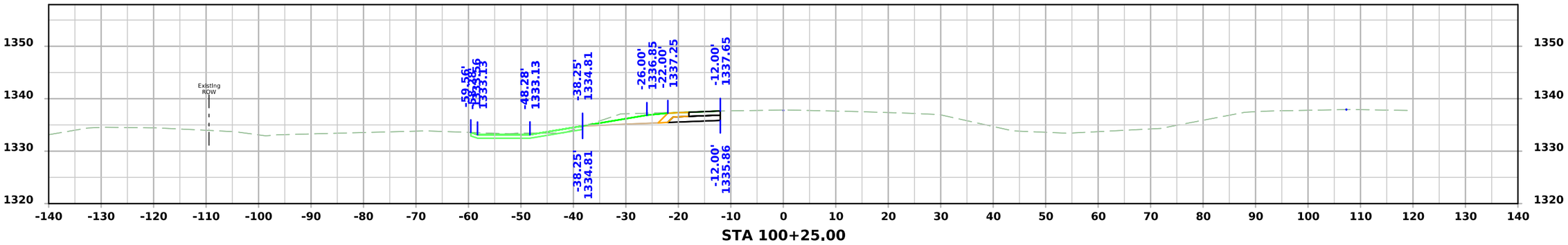
US 71 SB



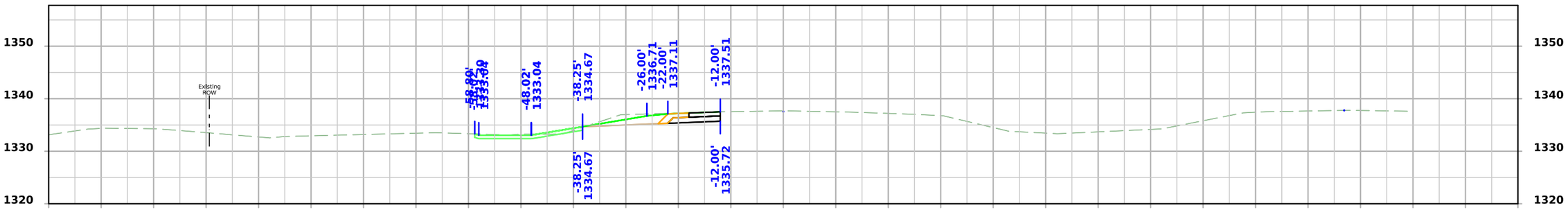
FILE NO.	ENGLISH	DESIGN TEAM Strum/Janus	CLAY COUNTY	PROJECT NUMBER HSIPX-018-2(142)--3H-21	SHEET NUMBER W.39

8:32:39 AM 7/2/2026 ajanus2 pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\2101802023\Design\CADD_Files\Sheet_Files\SHT_21018142_W03.dgn

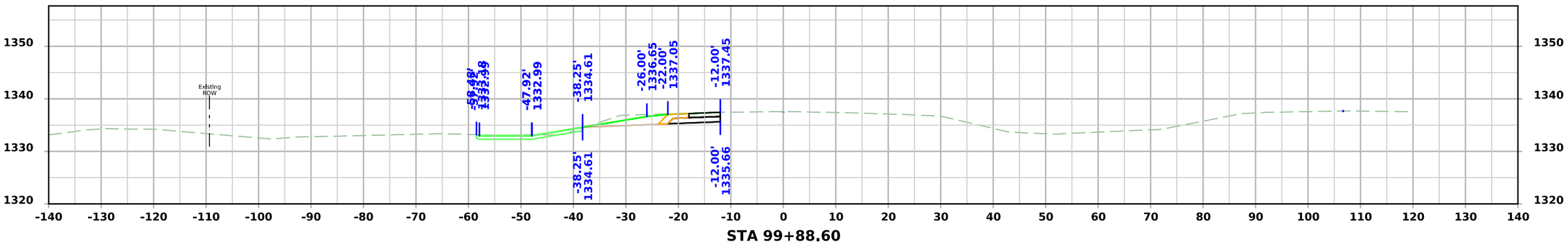
US 71 SB



STA 100+25.00



STA 100+00.00

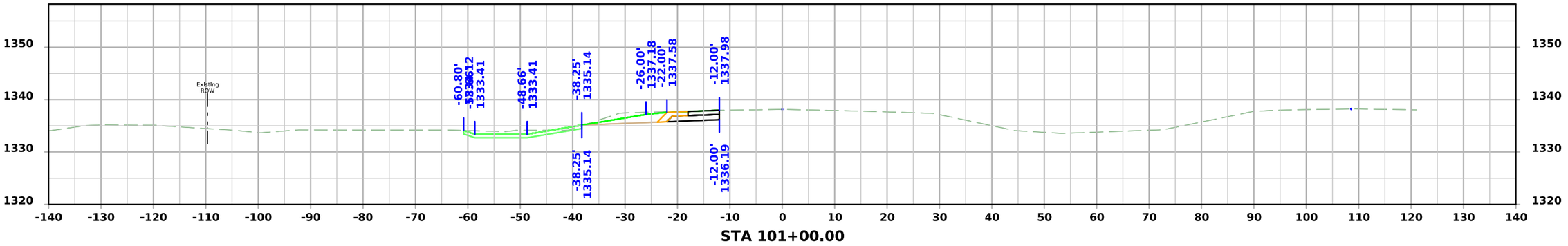


STA 99+88.60

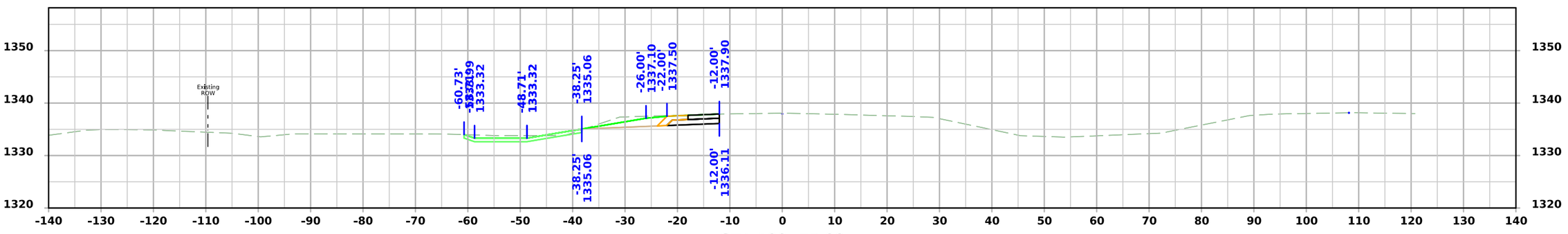
FILE NO.	ENGLISH	DESIGN TEAM Strum/Janus	CLAY COUNTY	PROJECT NUMBER HSIPX-018-2(142)--3H-21	SHEET NUMBER W.40

8:32:40 AM 7/2/2026 ajanus2 pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\2101802023\Design\CADD_Files\Sheet_Files\SHT_21018142_W03.dgn

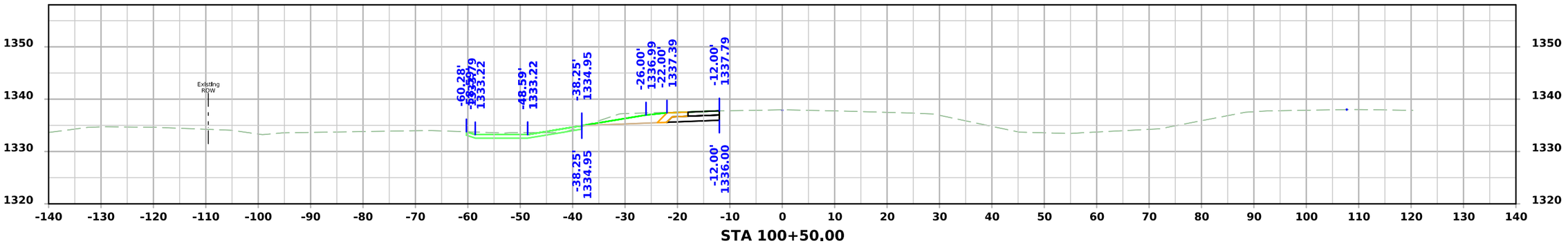
US 71 SB



STA 101+00.00



STA 100+75.00

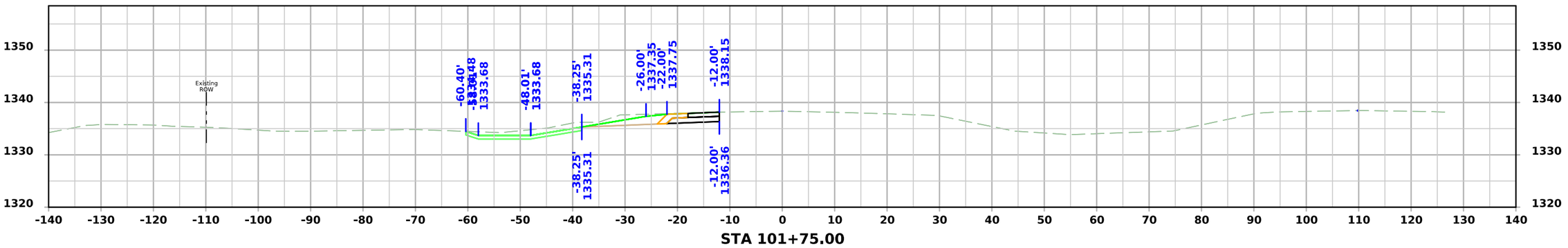


STA 100+50.00

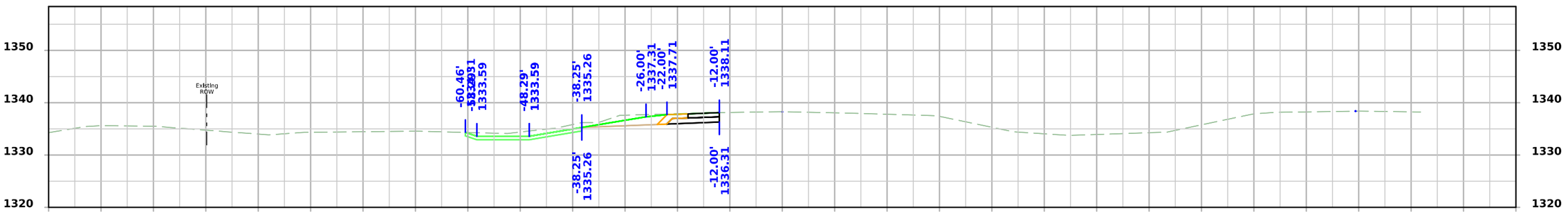
FILE NO.	ENGLISH	DESIGN TEAM Strum/Janus	CLAY COUNTY	PROJECT NUMBER HSIPX-018-2(142)--3H-21	SHEET NUMBER W.41

8:32:41 AM 7/2/2026 ajanus2 pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\2101802023\Design\CADD_Files\Sheet_Files\SHT_21018142_W03.dgn

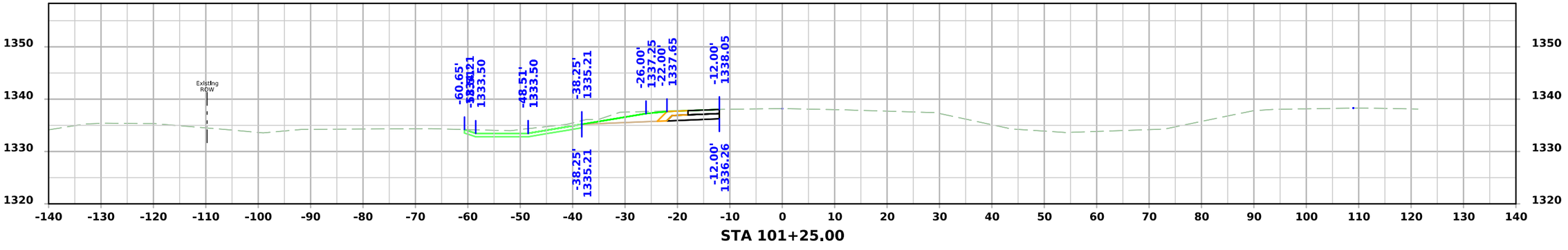
US 71 SB



STA 101+75.00



STA 101+50.00

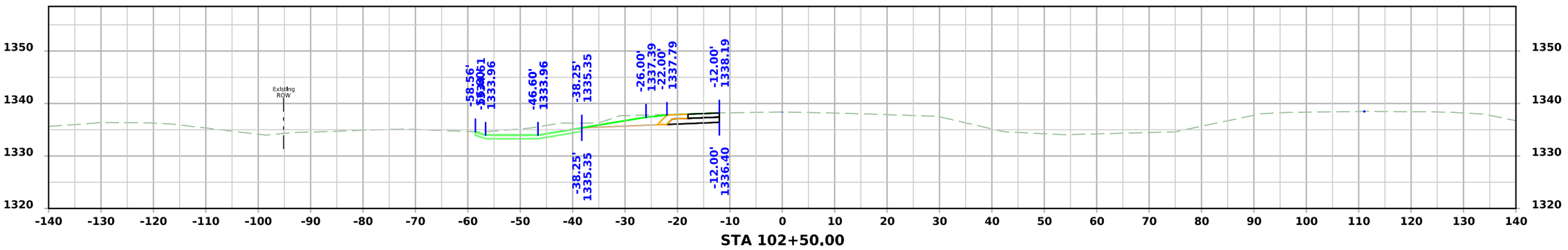


STA 101+25.00

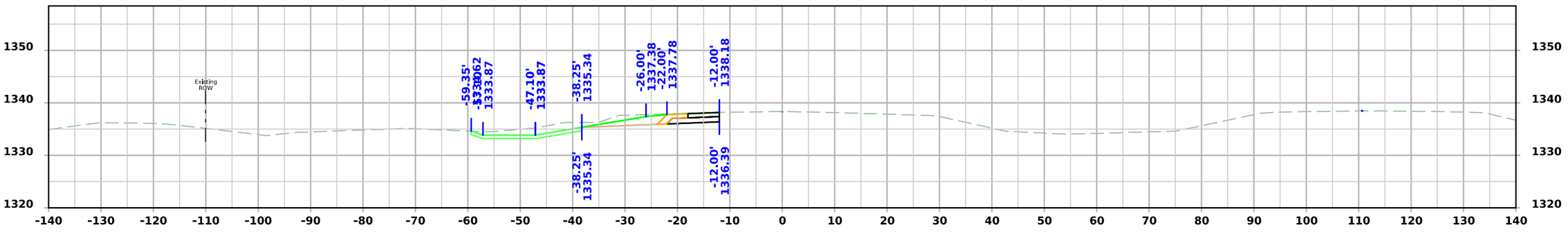
FILE NO.	ENGLISH	DESIGN TEAM Strum/Janus	CLAY COUNTY	PROJECT NUMBER HSIPX-018-2(142)--3H-21	SHEET NUMBER W.42	

8:32:42 AM 7/2/2026 ajanus2 pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\2101802023\Design\CADD_Files\Sheet_Files\SHT_21018142_W03.dgn

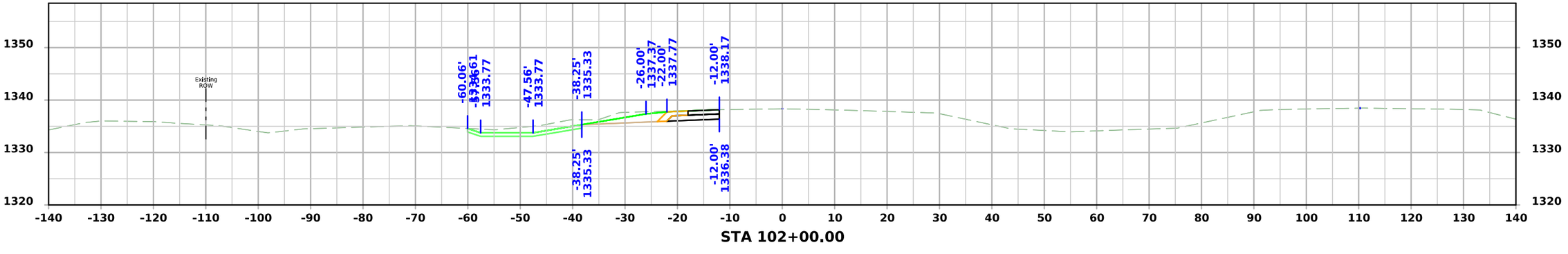
US 71 SB



STA 102+50.00



STA 102+25.00

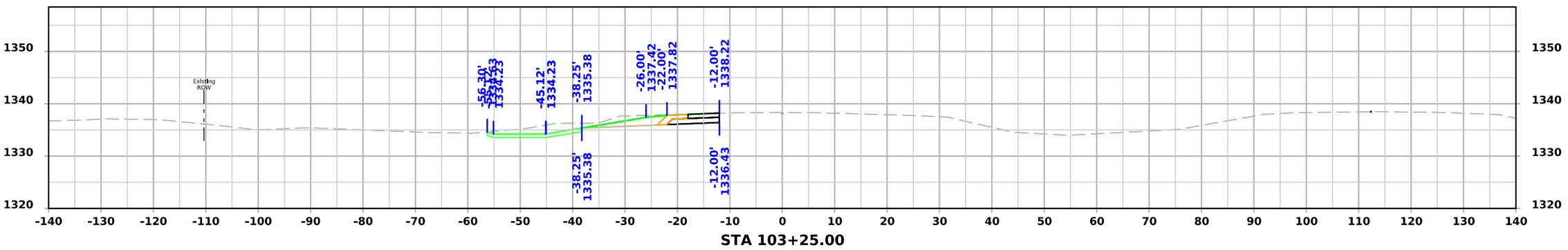


STA 102+00.00

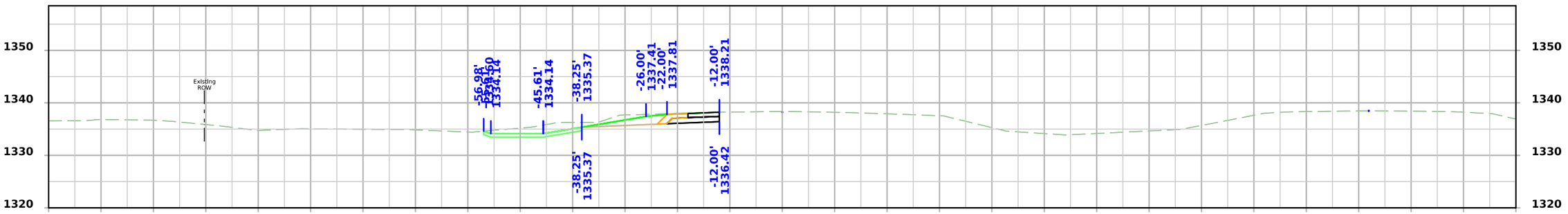
FILE NO.	ENGLISH	DESIGN TEAM Strum/Janus	CLAY COUNTY	PROJECT NUMBER HSIPX-018-2(142)--3H-21	SHEET NUMBER W.43

8:32:43 AM 7/2/2026 ajanus2 pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\2101802023\Design\CADD_Files\Sheet_Files\SHT_21018142_W03.dgn

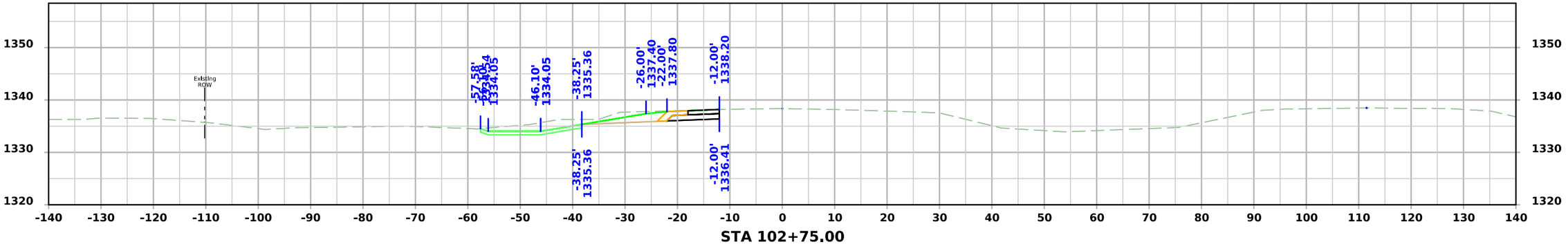
US 71 SB



STA 103+25.00



STA 103+00.00

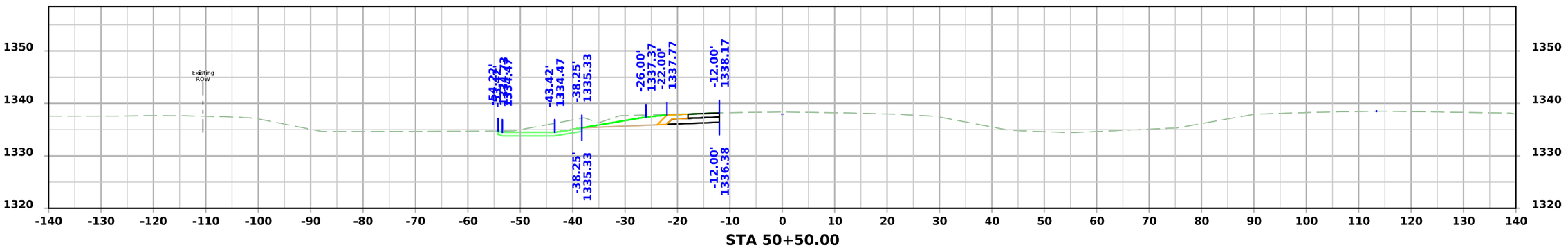


STA 102+75.00

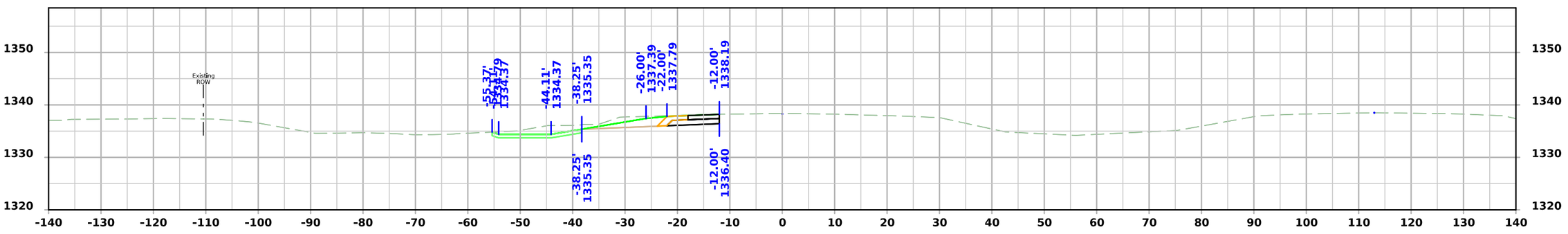
FILE NO.	ENGLISH	DESIGN TEAM Strum/Janus	CLAY COUNTY	PROJECT NUMBER HSIPX-018-2(142)--3H-21	SHEET NUMBER W.44

8:32:44 AM 7/2/2026 ajanus2 pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\2101802023\Design\CADD_Files\Sheet_Files\SHT_21018142_W03.dgn

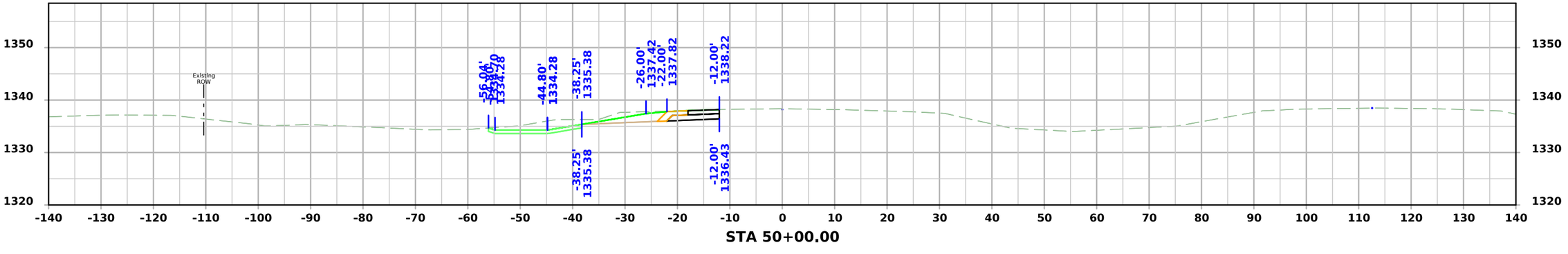
US 71 SB



STA 50+50.00



STA 50+25.00

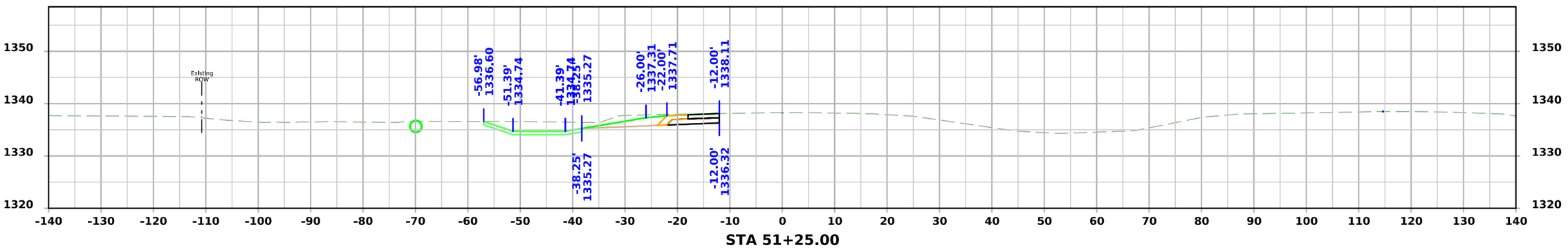


STA 50+00.00

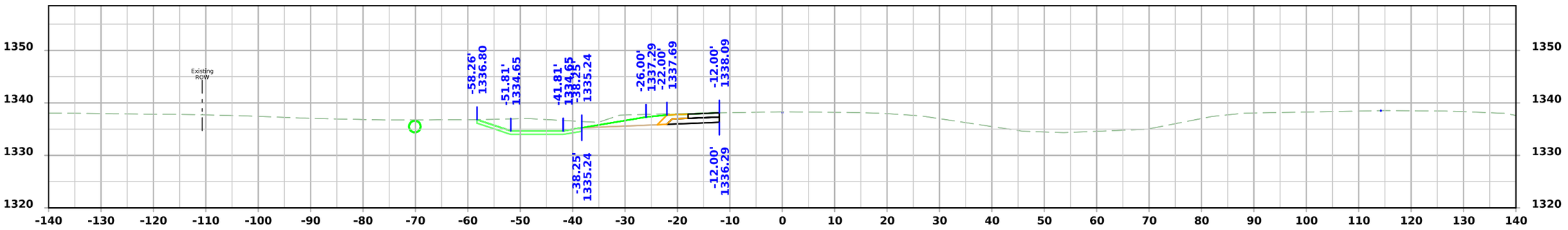
FILE NO.	ENGLISH	DESIGN TEAM Strum/Janus	CLAY COUNTY	PROJECT NUMBER HSIPX-018-2(142)--3H-21	SHEET NUMBER W.45

8:32:45 AM 7/2/2026 ajanus2 pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\2101802023\Design\CADD_Files\Sheet_Files\SHT_21018142_W03.dgn

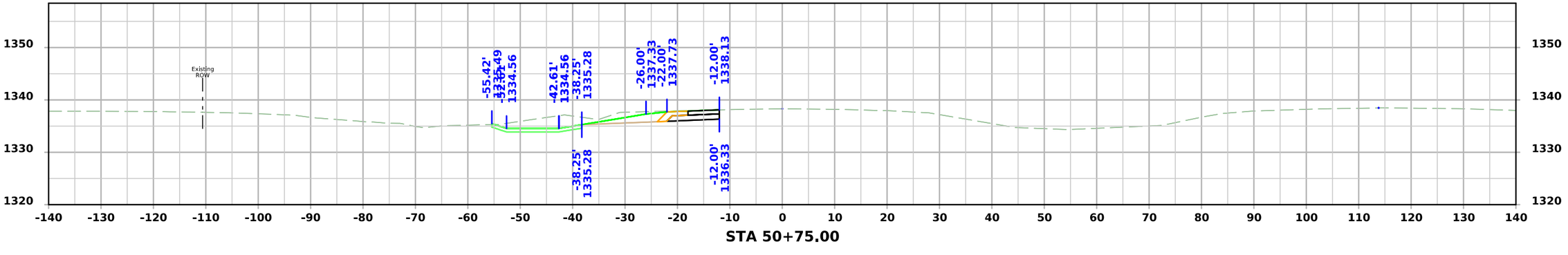
US 71 SB



STA 51+25.00



STA 51+00.00

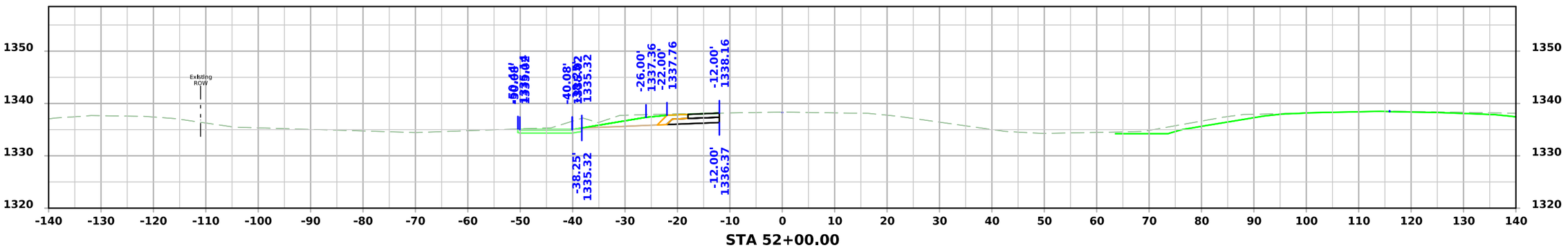


STA 50+75.00

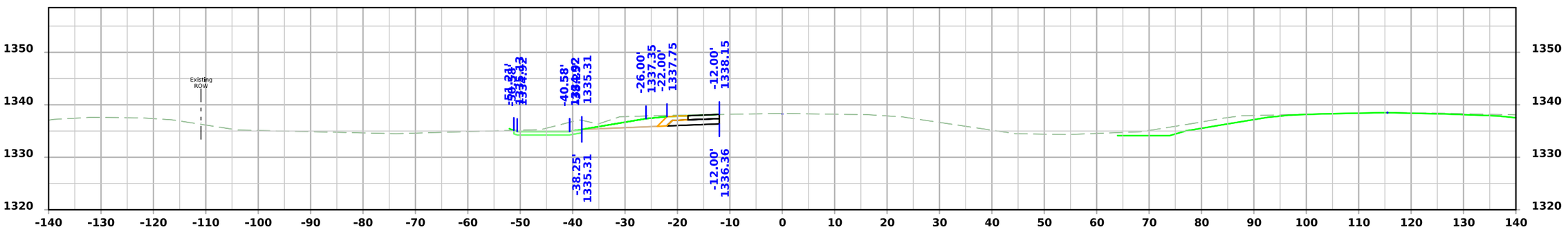
FILE NO.	ENGLISH	DESIGN TEAM Strum/Janus	CLAY COUNTY	PROJECT NUMBER HSIPX-018-2(142)--3H-21	SHEET NUMBER W.46

8:32:46 AM 7/2/2026 ajanus2 pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\2101802023\Design\CADD_Files\Sheet_Files\SHT_21018142_W03.dgn

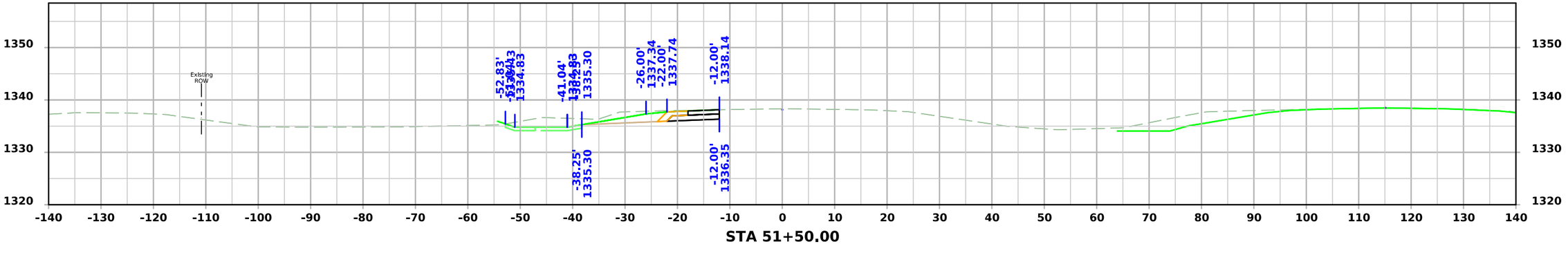
US 71 SB



STA 52+00.00



STA 51+75.00

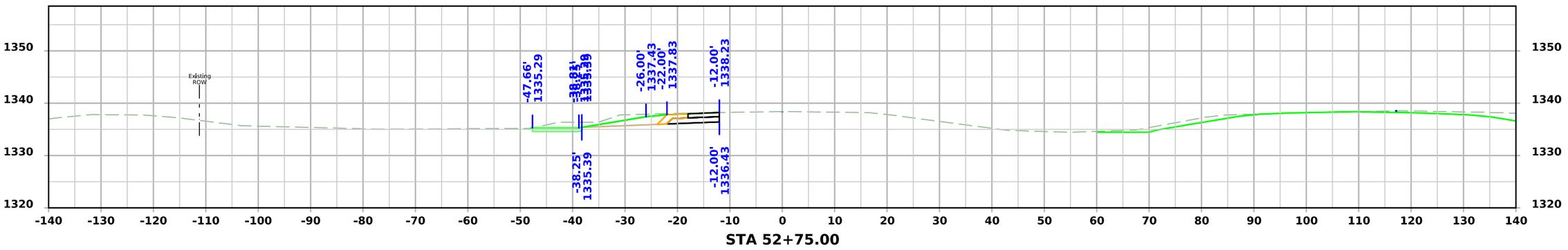


STA 51+50.00

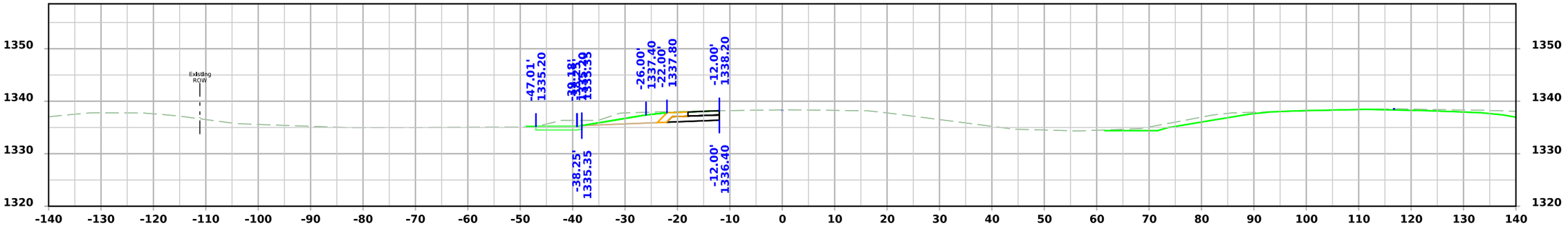
FILE NO.	ENGLISH	DESIGN TEAM Strum/Janus	CLAY COUNTY	PROJECT NUMBER HSIPX-018-2(142)--3H-21	SHEET NUMBER W.47

8:32:47 AM 7/2/2026 ajanus2 pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\2101802023\Design\CADD_Files\Sheet_Files\SHT_21018142_W03.dgn

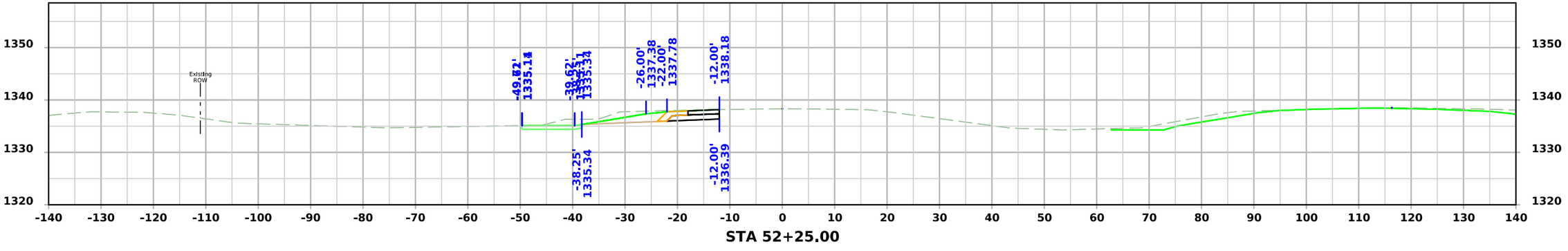
US 71 SB



STA 52+75.00



STA 52+50.00

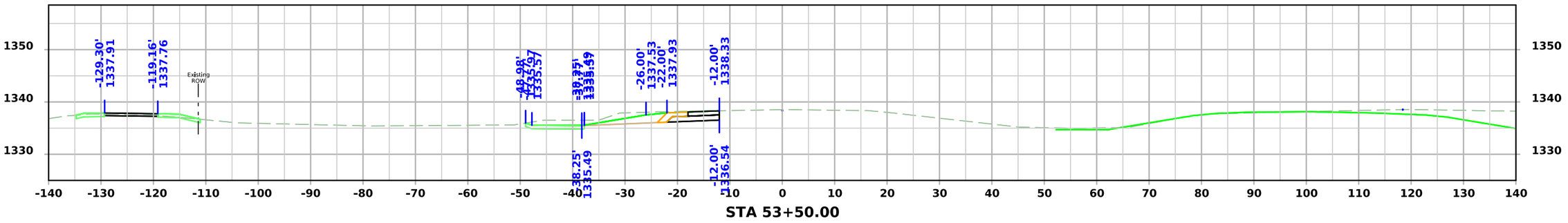


STA 52+25.00

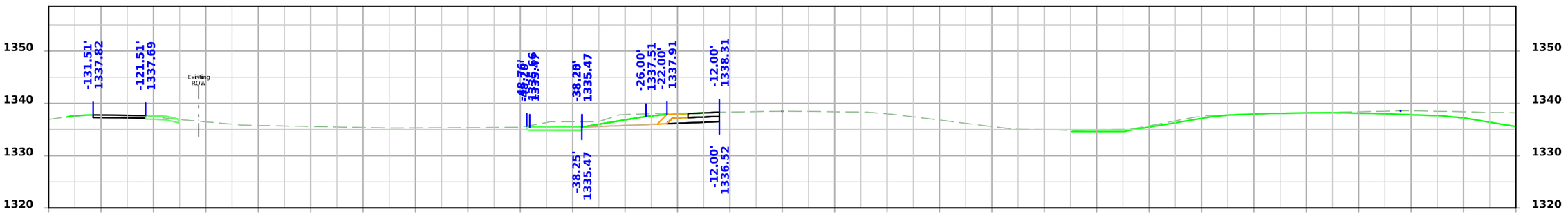
FILE NO.	ENGLISH	DESIGN TEAM Strum/Janus	CLAY COUNTY	PROJECT NUMBER HSIPX-018-2(142)--3H-21	SHEET NUMBER W.48

8:32:48 AM 7/2/2026 ajanus2 pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\2101802023\Design\CADD_Files\Sheet_Files\SHT_21018142_W03.dgn

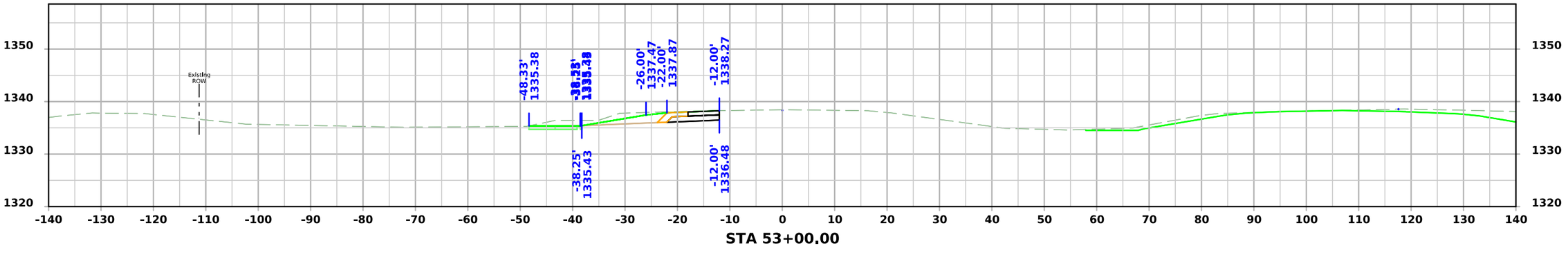
US 71 SB



STA 53+50.00



STA 53+25.00

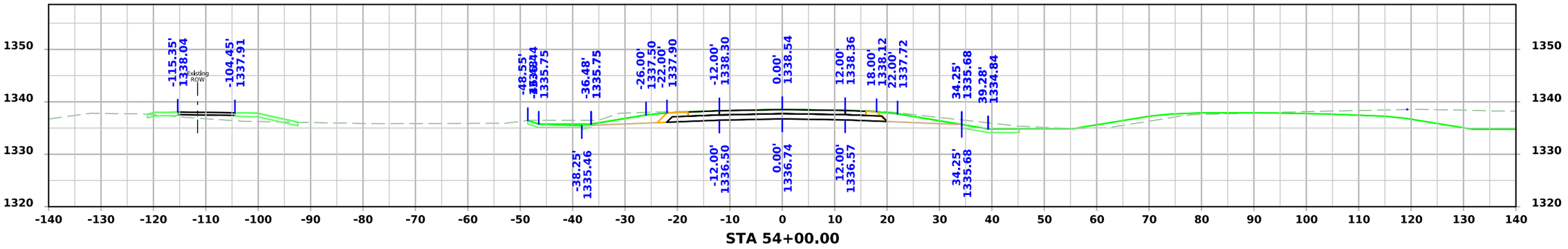


STA 53+00.00

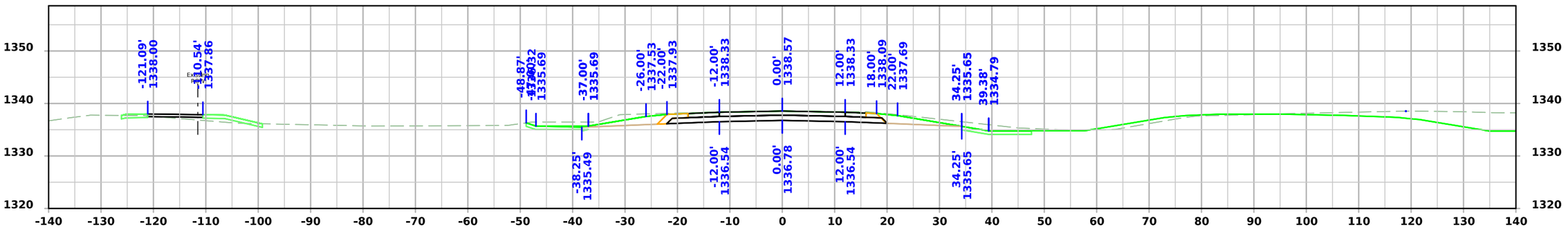
FILE NO.	ENGLISH	DESIGN TEAM Strum/Janus	CLAY COUNTY	PROJECT NUMBER HSIPX-018-2(142)--3H-21	SHEET NUMBER W.49

8:32:49 AM 7/2/2026 ajanus2 pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\2101802023\Design\CADD_Files\Sheet_Files\SHT_21018142_W03.dgn

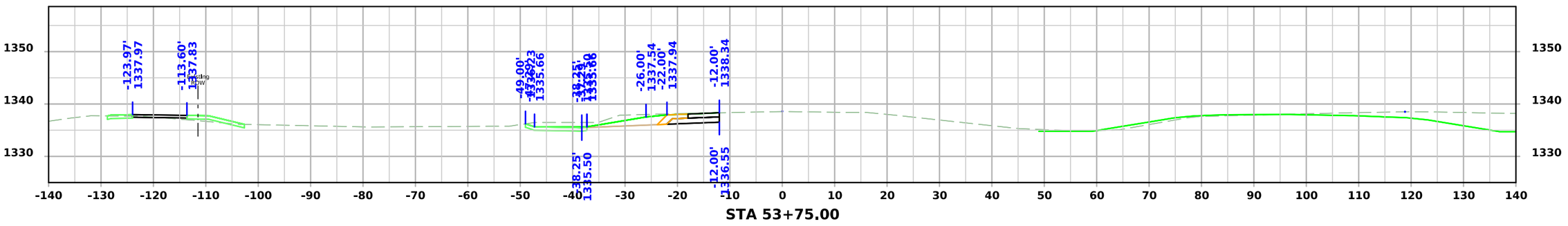
US 71 SB



STA 54+00.00



STA 53+84.60

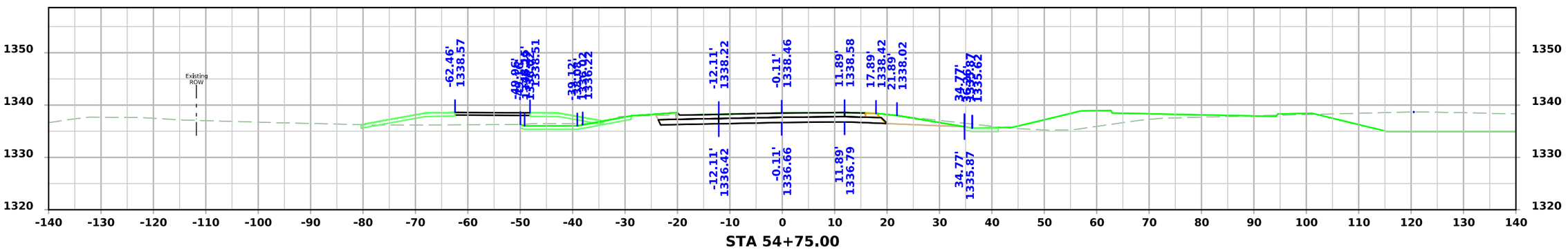


STA 53+75.00

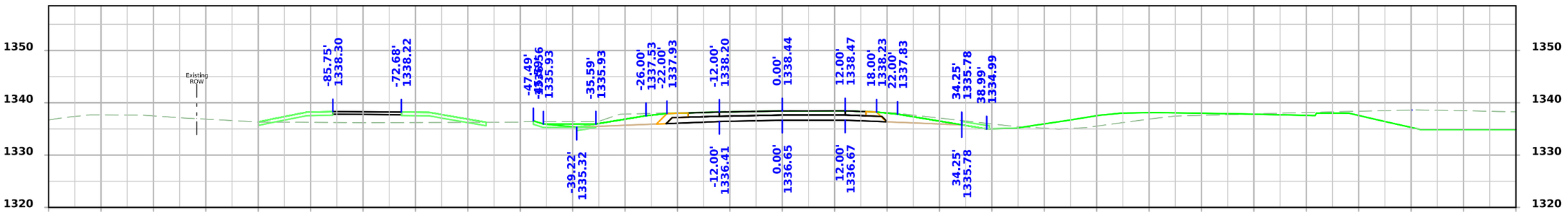
FILE NO.	ENGLISH	DESIGN TEAM Strum/Janus	CLAY COUNTY	PROJECT NUMBER HSIPX-018-2(142)--3H-21	SHEET NUMBER W.50

8:32:51 AM 7/2/2026 ajanus2 pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\2101802023\Design\CADD_Files\Sheet_Files\SHT_21018142_W03.dgn

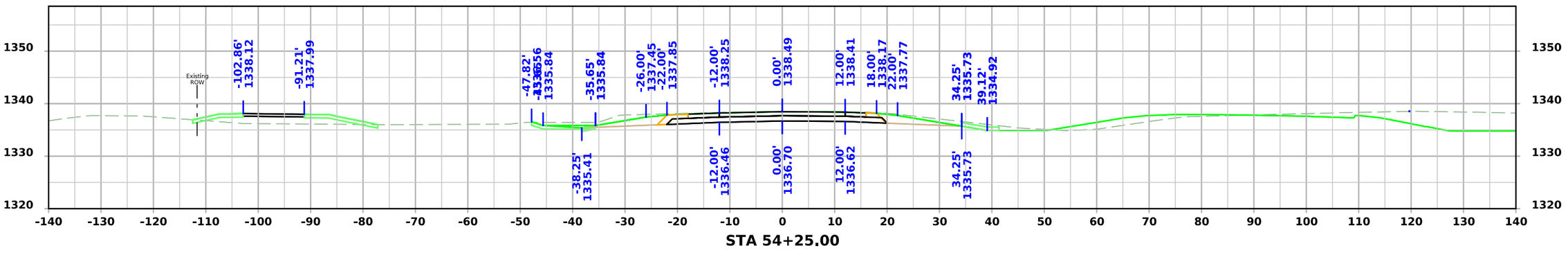
US 71 SB



STA 54+75.00



STA 54+50.00

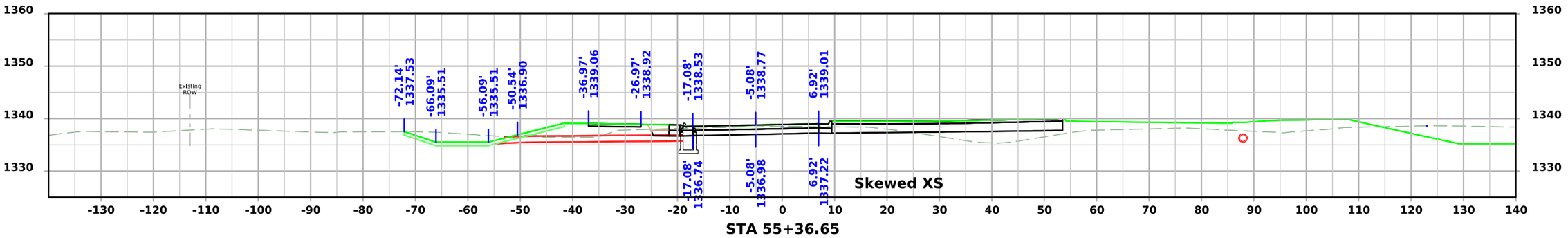


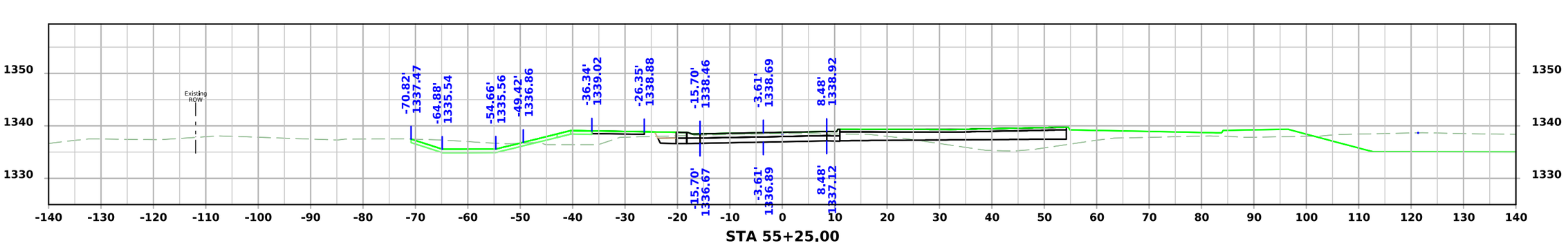
STA 54+25.00

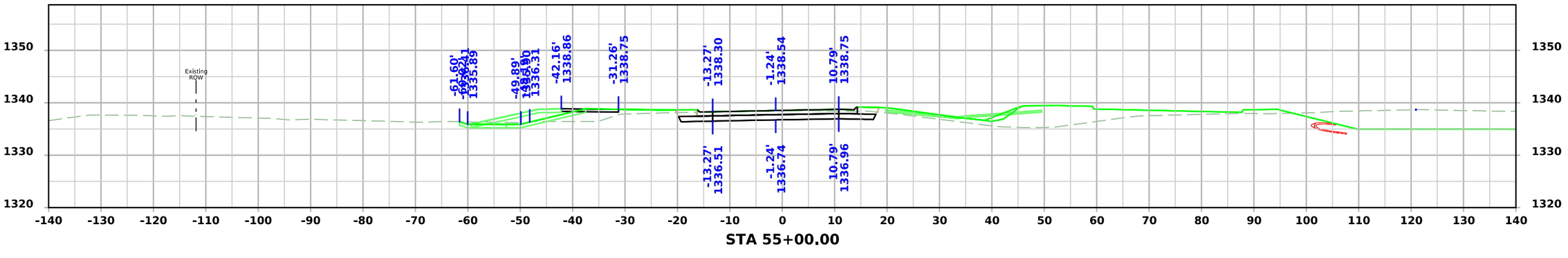
FILE NO.	ENGLISH	DESIGN TEAM Strum/Janus	CLAY COUNTY	PROJECT NUMBER HSIPX-018-2(142)--3H-21	SHEET NUMBER W.51

8:32:52 AM 7/2/2026 ajanus2 pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\2101802023\Design\CADD_Files\Sheet_Files\SHT_21018142_W03.dgn

US 71 SB



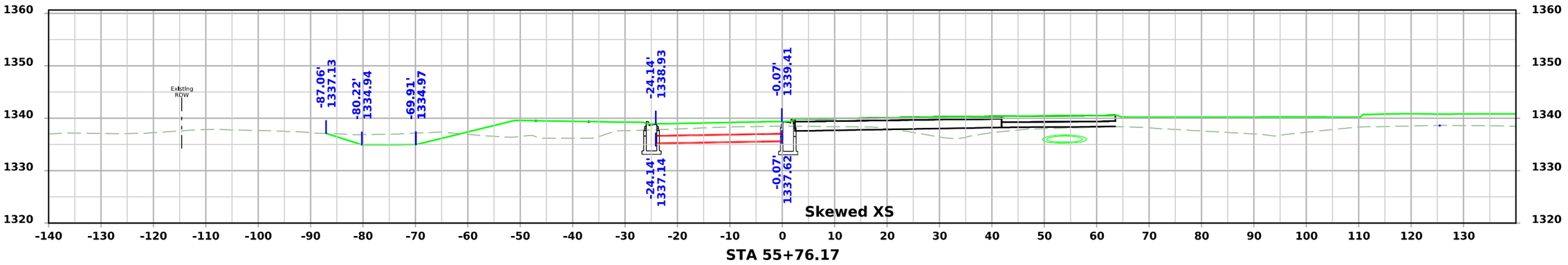




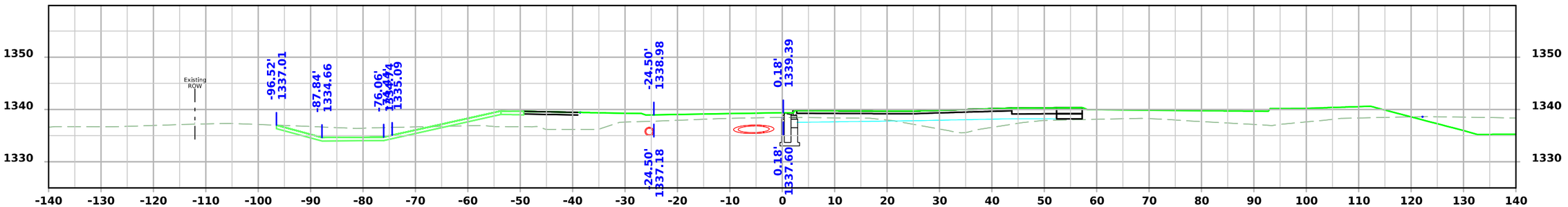
FILE NO.	ENGLISH	DESIGN TEAM Strum/Janus	CLAY COUNTY	PROJECT NUMBER HSIPX-018-2(142)--3H-21	SHEET NUMBER W.52

8:32:53 AM 7/2/2026 ajanus2 pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\2101802023\Design\CADD_Files\Sheet_Files\SHT_21018142_W03.dgn

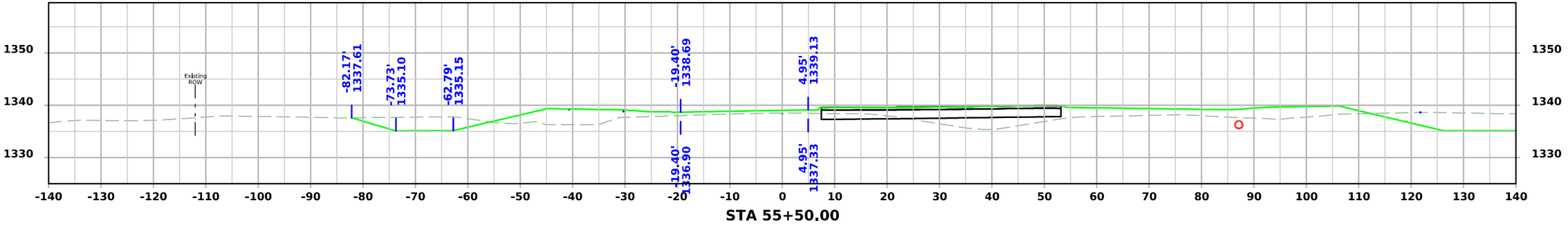
US 71 SB



STA 55+76.17



STA 55+75.00

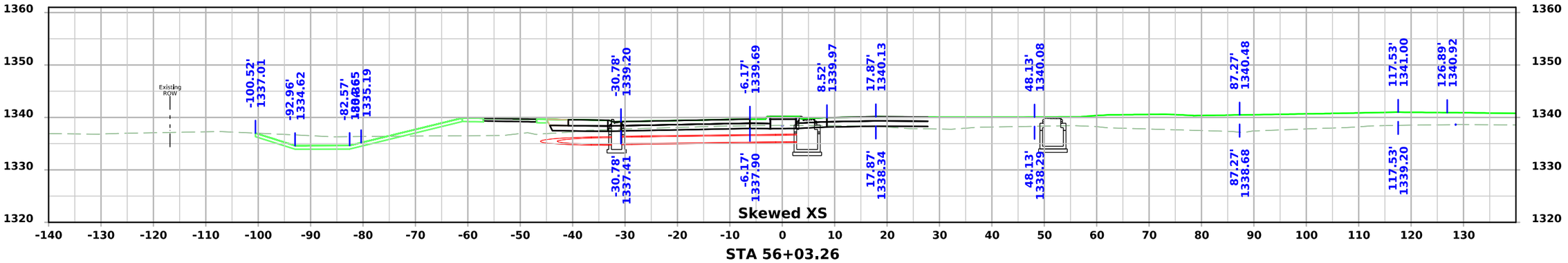


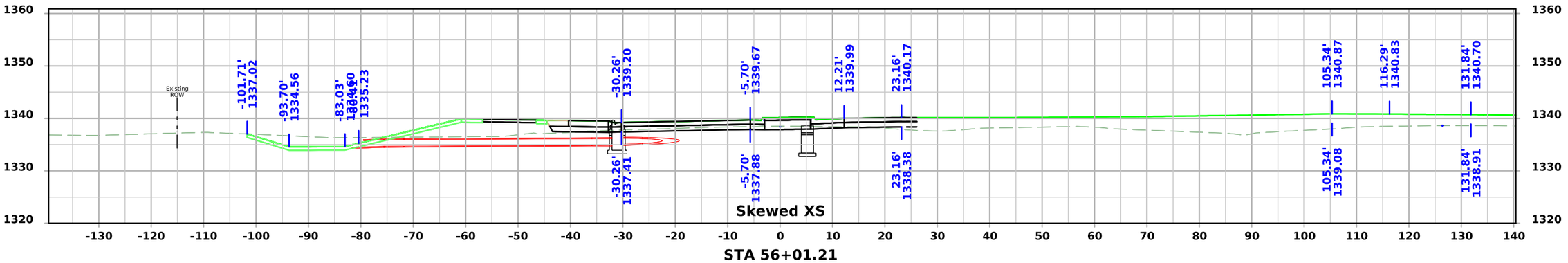
STA 55+50.00

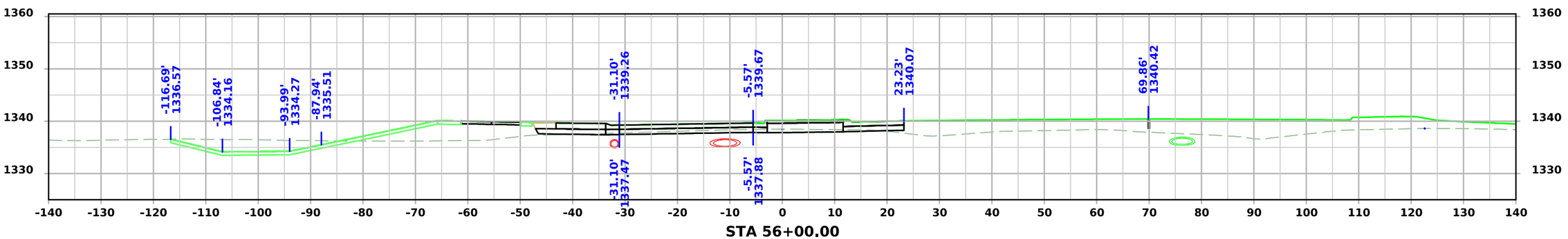
FILE NO.	ENGLISH	DESIGN TEAM Strum/Janus	CLAY COUNTY	PROJECT NUMBER HSIPX-018-2(142)--3H-21	SHEET NUMBER W.53

8:32:55 AM 7/2/2026 ajanus2 pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\2101802023\Design\CADD_Files\Sheet_Files\SHT_21018142_W03.dgn

US 71 SB



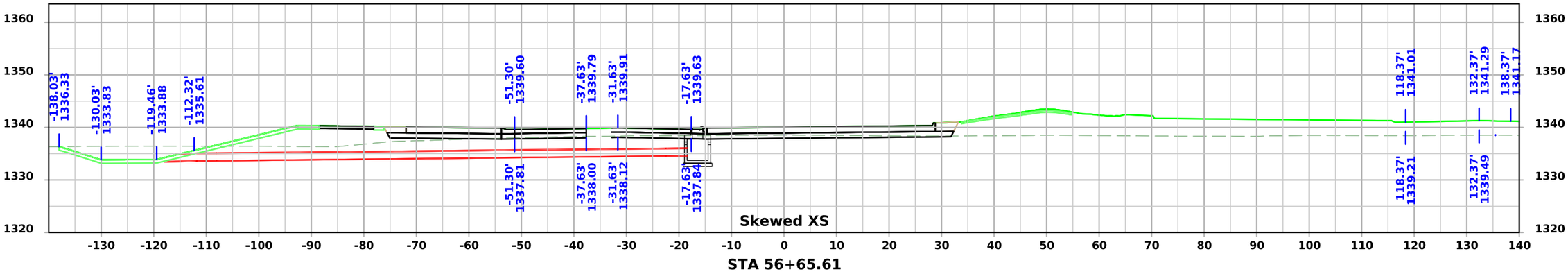




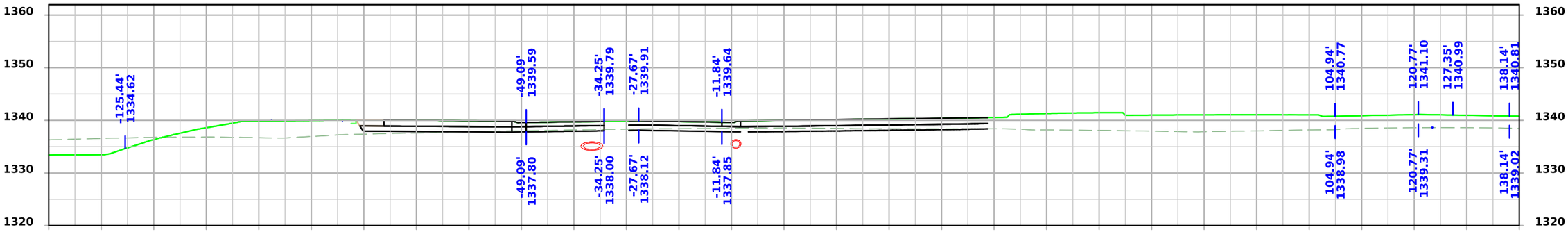
FILE NO.	ENGLISH	DESIGN TEAM Strum/Janus	CLAY COUNTY	PROJECT NUMBER HSIPX-018-2(142)--3H-21	SHEET NUMBER W.54

8:32:56 AM 7/2/2026 ajanus2 pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\2101802023\Design\CADD_Files\Sheet_Files\SHT_21018142_W03.dgn

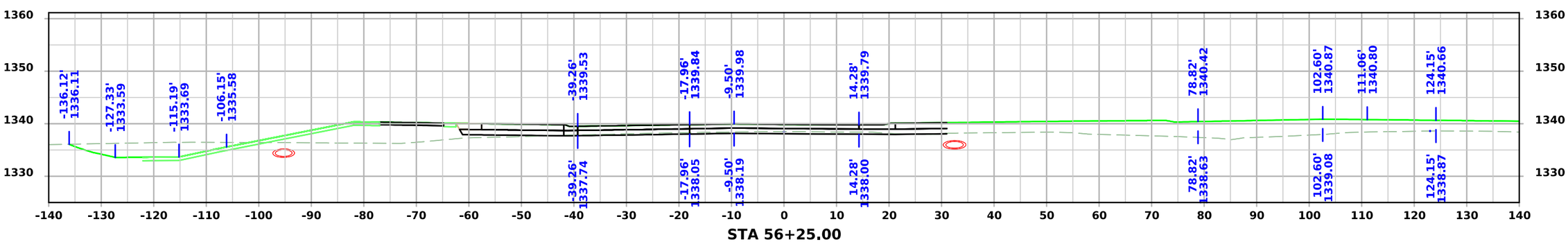
US 71 SB



STA 56+65.61



STA 56+50.00

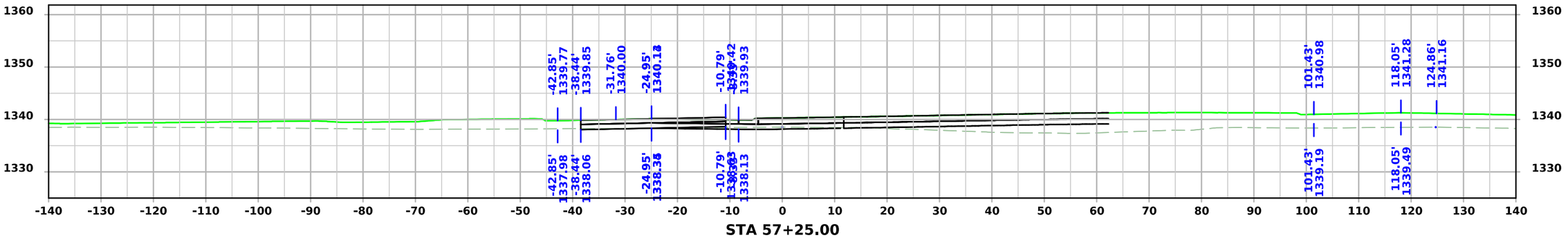


STA 56+25.00

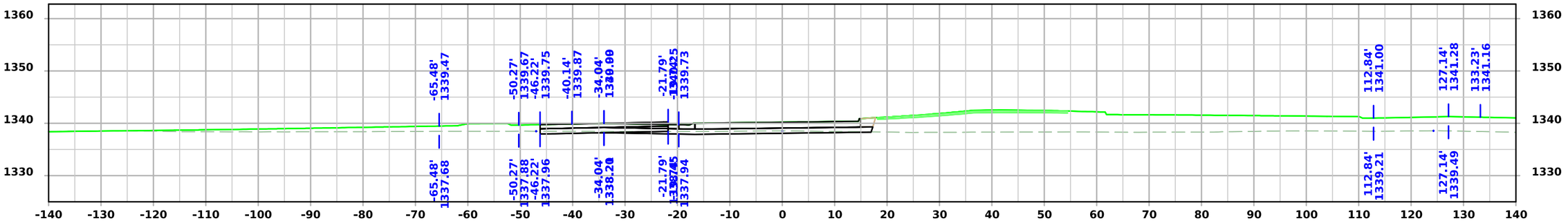
FILE NO.	ENGLISH	DESIGN TEAM Strum/Janus	CLAY COUNTY	PROJECT NUMBER HSIPX-018-2(142)--3H-21	SHEET NUMBER W.55

8:32:58 AM 7/2/2026 ajanus2 pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\2101802023\Design\CADD_Files\Sheet_Files\SHT_21018142_W03.dgn

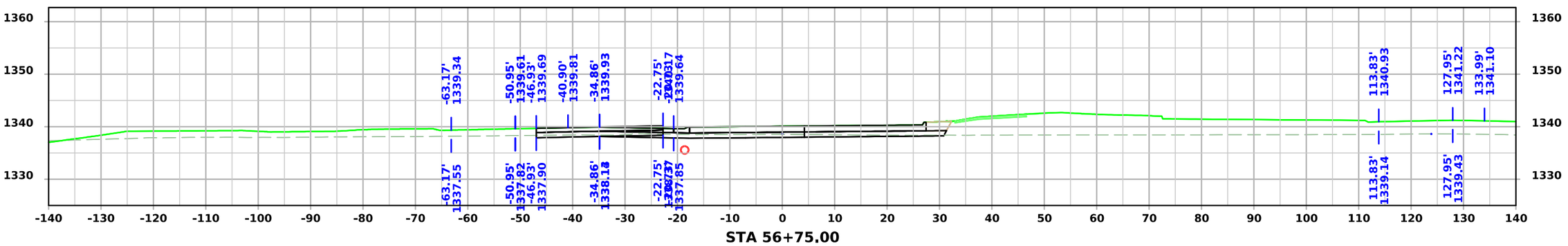
US 71 SB



STA 57+25.00



STA 57+00.00

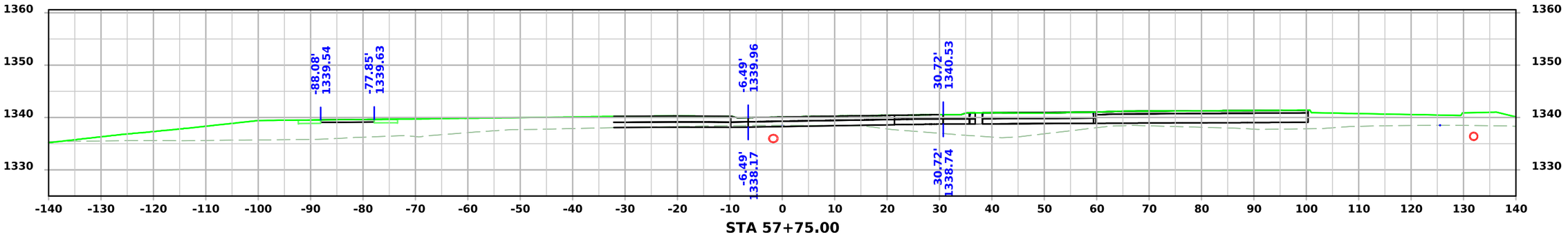


STA 56+75.00

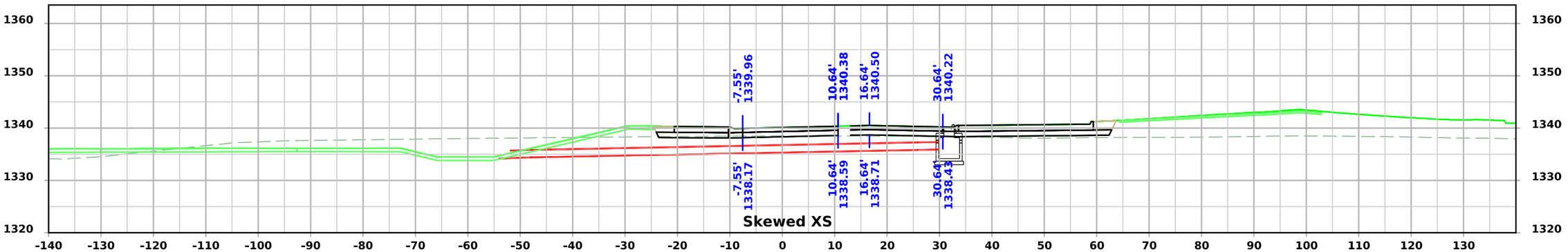
FILE NO.	ENGLISH	DESIGN TEAM Strum/Janus	CLAY COUNTY	PROJECT NUMBER HSIPX-018-2(142)--3H-21	SHEET NUMBER W.56

8:32:59 AM 7/2/2026 ajanus2 pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\2101802023\Design\CADD_Files\Sheet_Files\SHT_21018142_W03.dgn

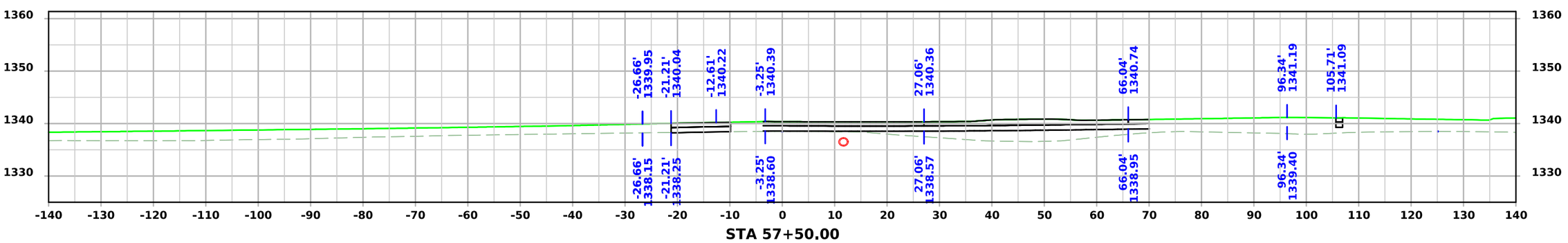
US 71 SB



STA 57+75.00



STA 57+71.81

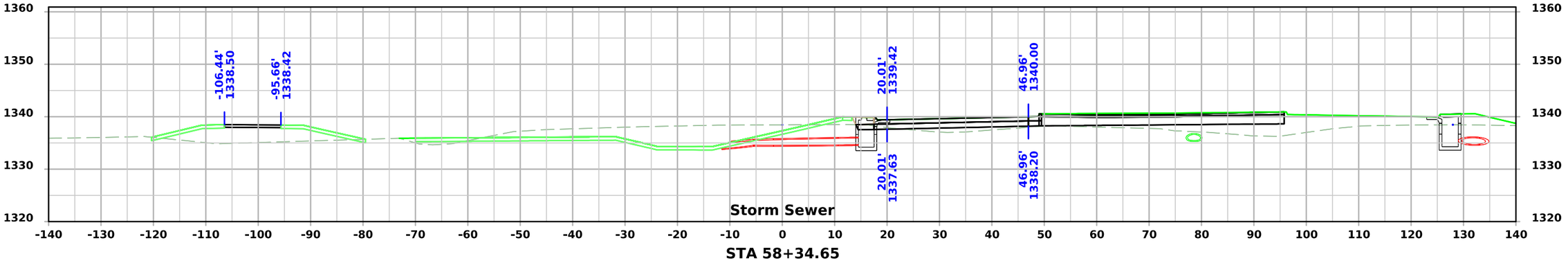


STA 57+50.00

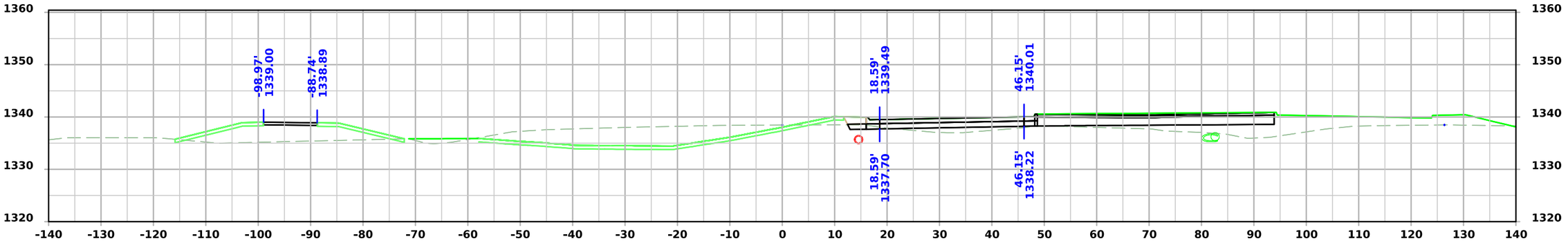
FILE NO.	ENGLISH	DESIGN TEAM Strum/Janus	CLAY COUNTY	PROJECT NUMBER HSIPX-018-2(142)--3H-21	SHEET NUMBER W.57

8:33:01 AM 7/2/2026 ajanus2 pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\2101802023\Design\CADD_Files\Sheet_Files\SHT_21018142_W03.dgn

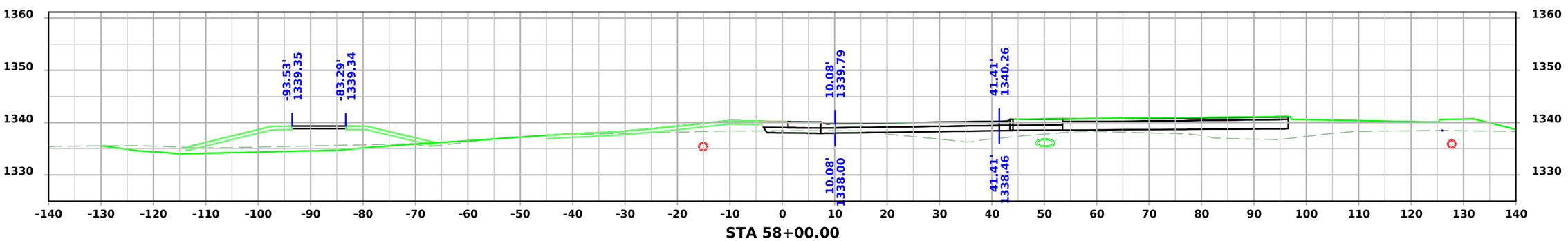
US 71 SB



STA 58+34.65



STA 58+25.00

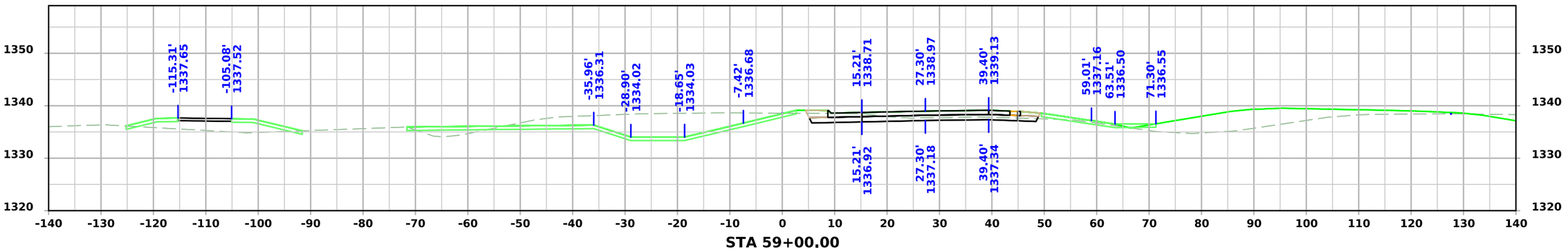


STA 58+00.00

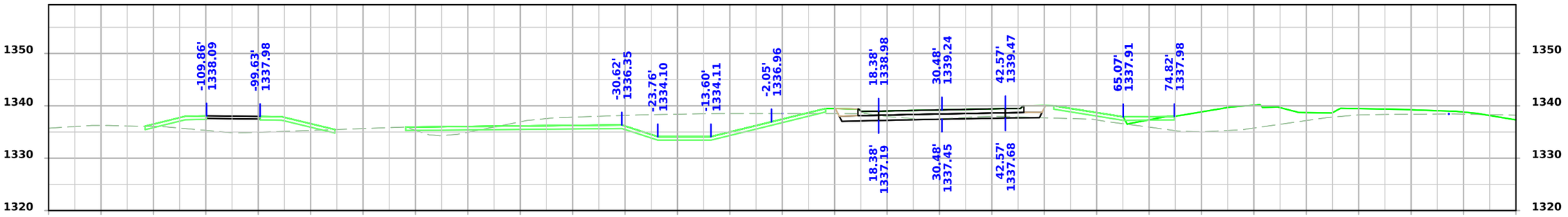
FILE NO.	ENGLISH	DESIGN TEAM Strum/Janus	CLAY COUNTY	PROJECT NUMBER HSIPX-018-2(142)--3H-21	SHEET NUMBER W.58

8:33:04 AM 7/2/2026 ajanus2 pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\2101802023\Design\CADD_Files\Sheet_Files\SHT_21018142_W03.dgn

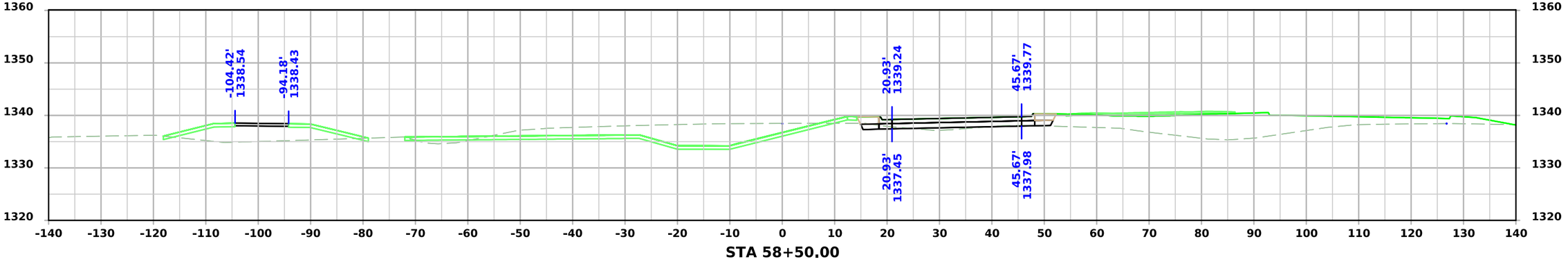
US 71 SB



STA 59+00.00



STA 58+75.00

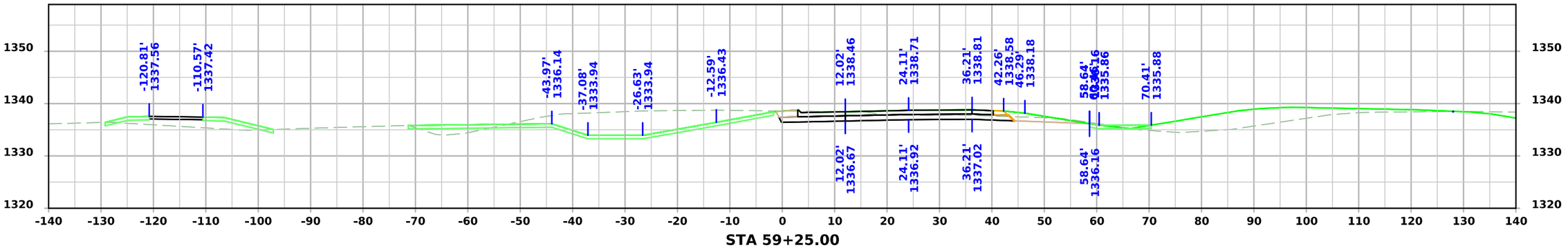


STA 58+50.00

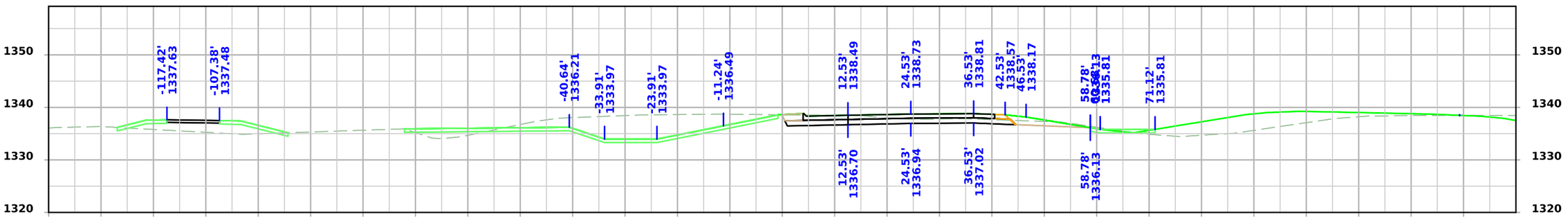
FILE NO.	ENGLISH	DESIGN TEAM Strum/Janus	CLAY COUNTY	PROJECT NUMBER HSIPX-018-2(142)--3H-21	SHEET NUMBER W.59

8:33:05 AM 7/2/2026 ajanus2 pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\2101802023\Design\CADD_Files\Sheet_Files\SHT_21018142_W03.dgn

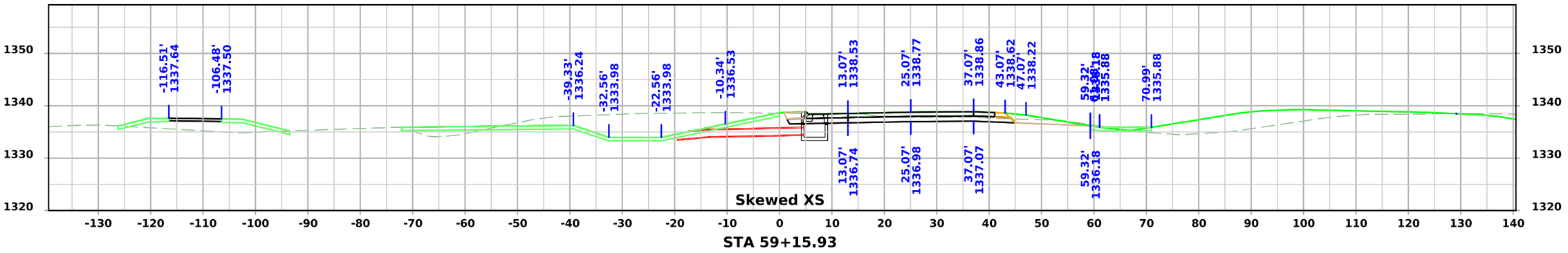
US 71 SB



STA 59+25.00



STA 59+20.16

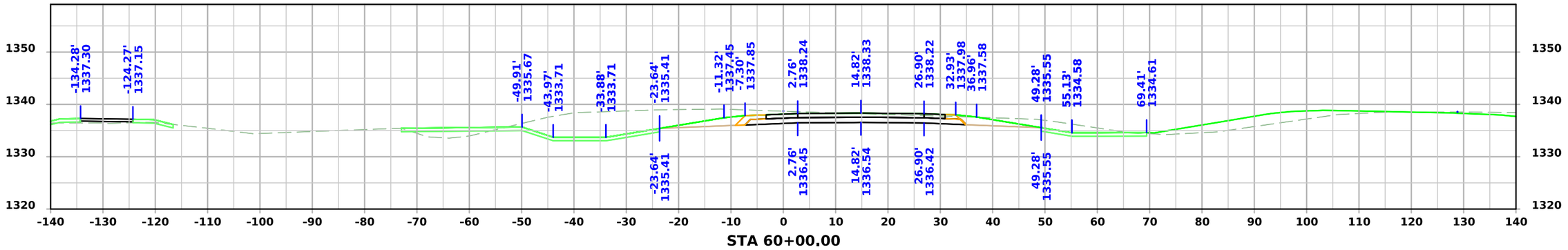


STA 59+15.93

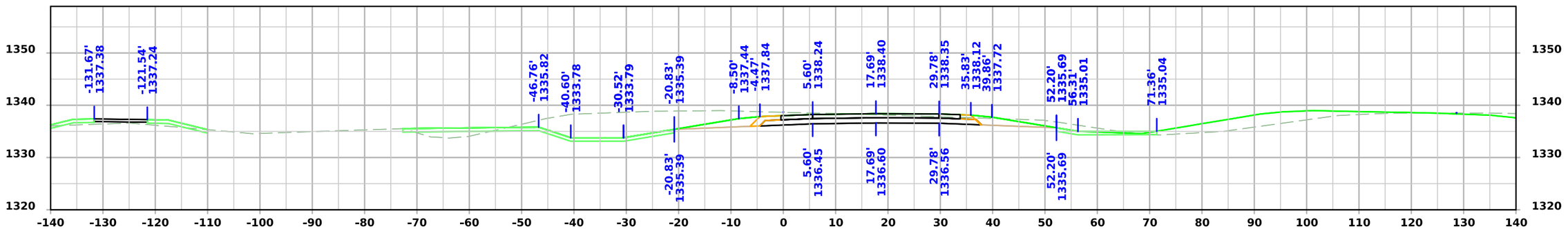
FILE NO.	ENGLISH	DESIGN TEAM Strum/Janus	CLAY COUNTY	PROJECT NUMBER HSIPX-018-2(142)--3H-21	SHEET NUMBER W.60

8:33:06 AM 7/2/2026 ajanus2 pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\2101802023\Design\CADD_Files\Sheet_Files\SHT_21018142_W03.dgn

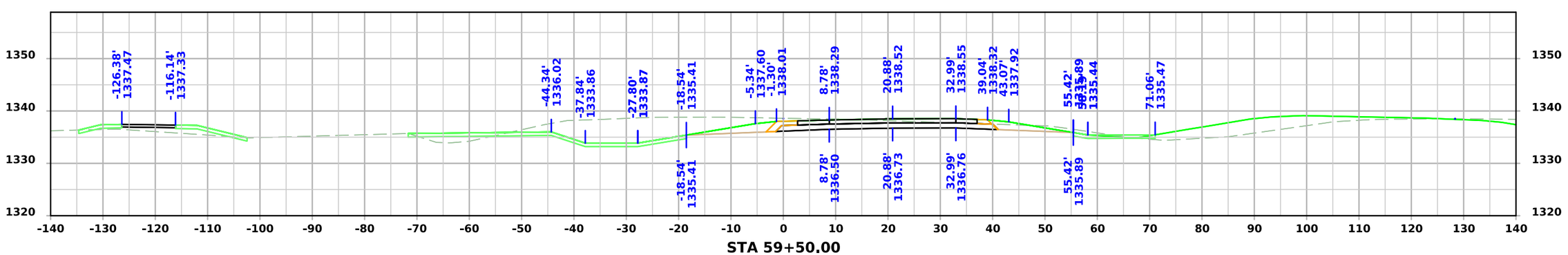
US 71 SB



STA 60+00.00



STA 59+75.00

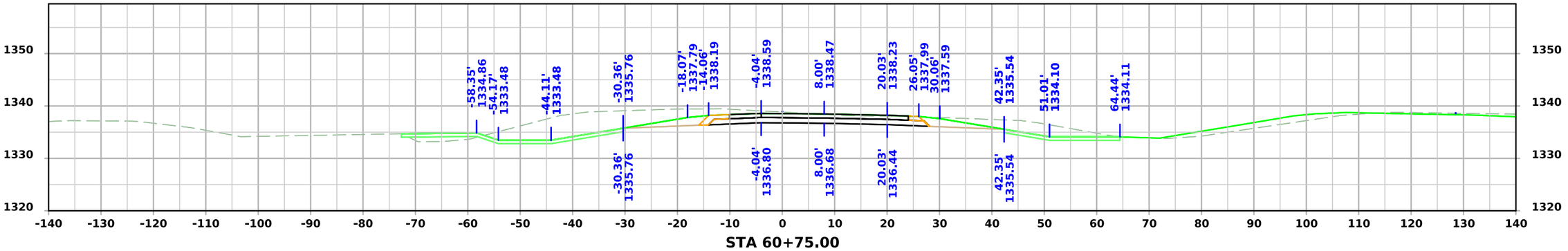


STA 59+50.00

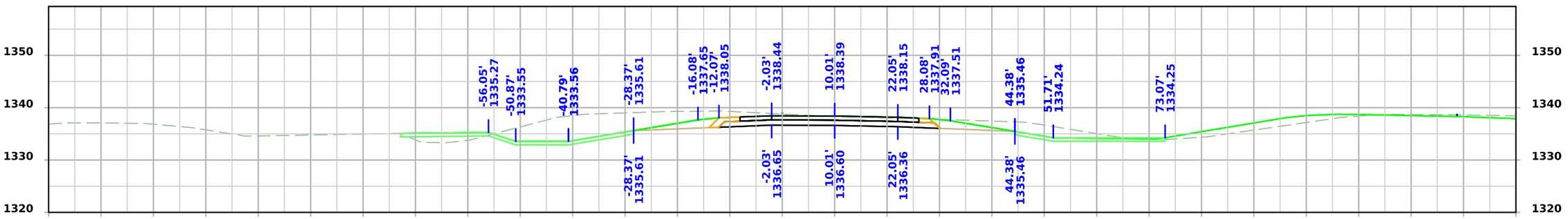
FILE NO.	ENGLISH	DESIGN TEAM Strum/Janus	CLAY COUNTY	PROJECT NUMBER HSIPX-018-2(142)--3H-21	SHEET NUMBER W.61

8:33:07 AM 7/2/2026 ajanus2 pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\2101802023\Design\CADD_Files\Sheet_Files\SHT_21018142_W03.dgn

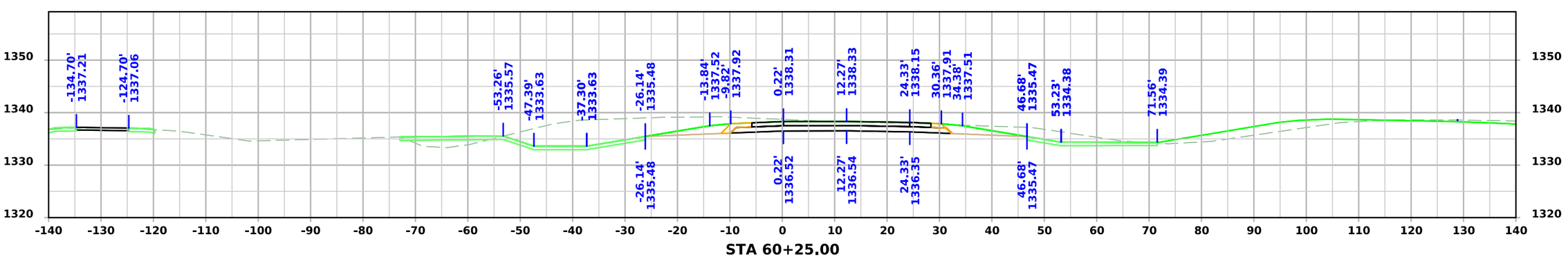
US 71 SB



STA 60+75.00



STA 60+50.00

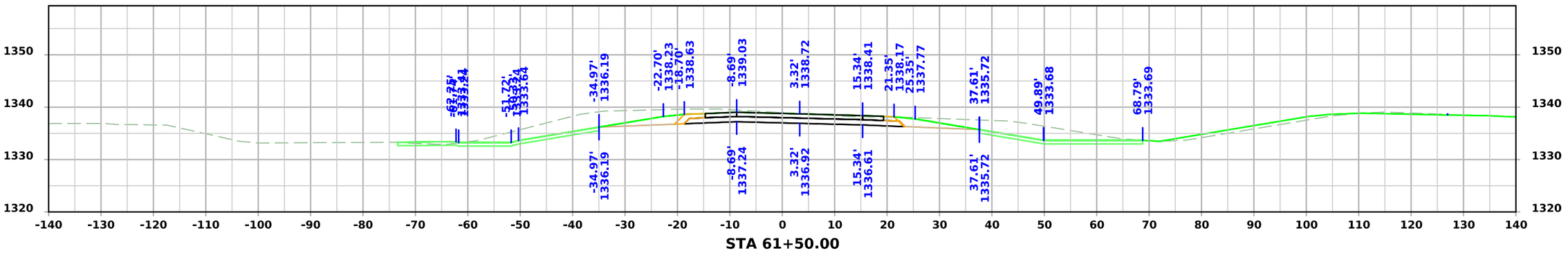


STA 60+25.00

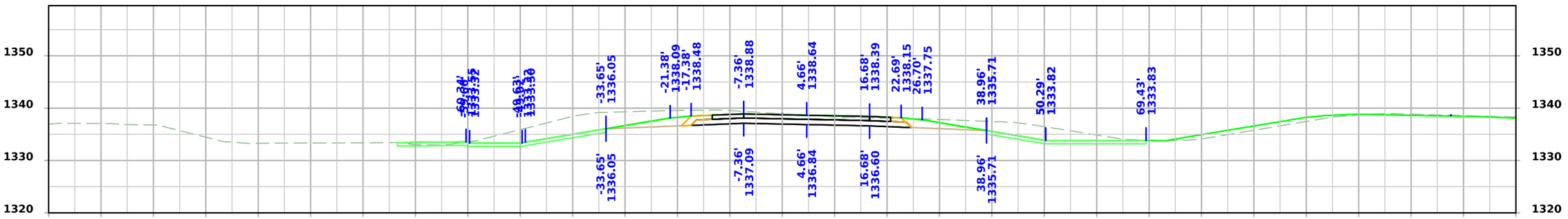
FILE NO.	ENGLISH	DESIGN TEAM Strum/Janus	CLAY COUNTY	PROJECT NUMBER HSIPX-018-2(142)--3H-21	SHEET NUMBER W.62

8:33:08 AM 7/2/2026 ajanus2 pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\2101802023\Design\CADD_Files\Sheet_Files\SHT_21018142_W03.dgn

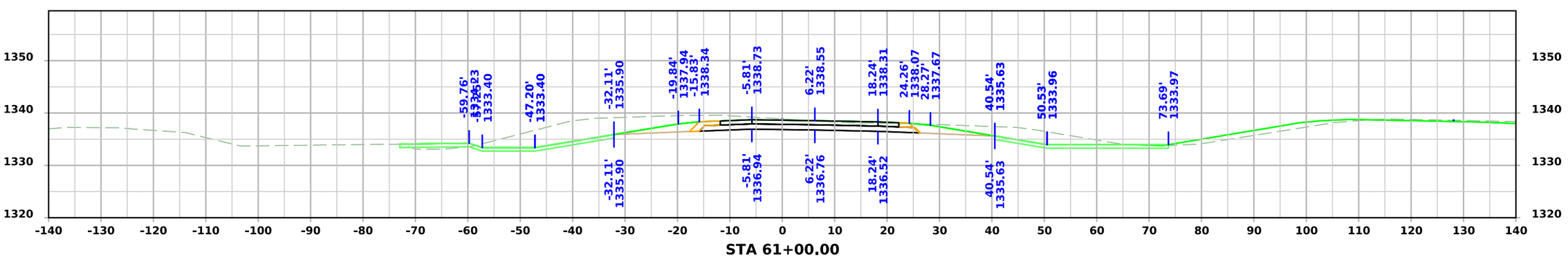
US 71 SB



STA 61+50.00



STA 61+25.00

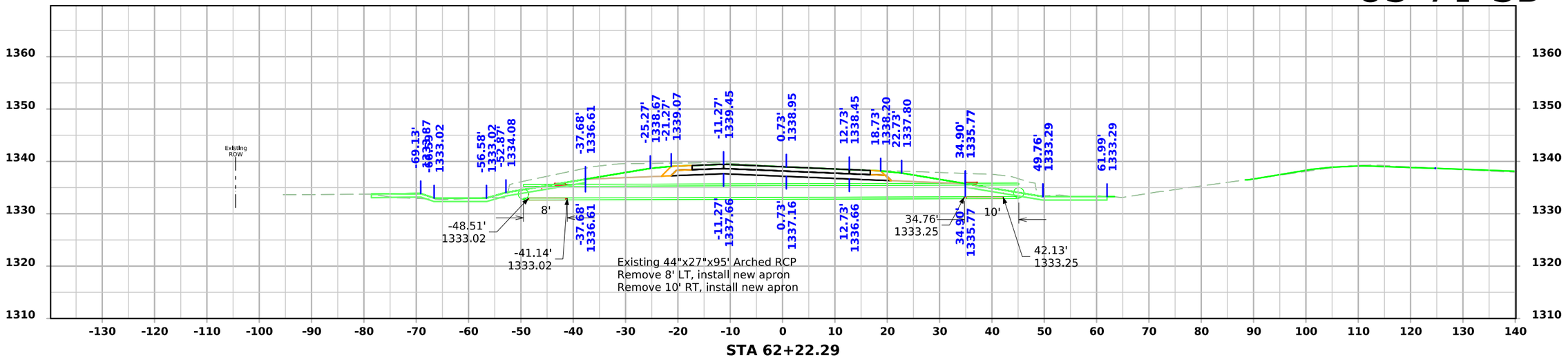


STA 61+00.00

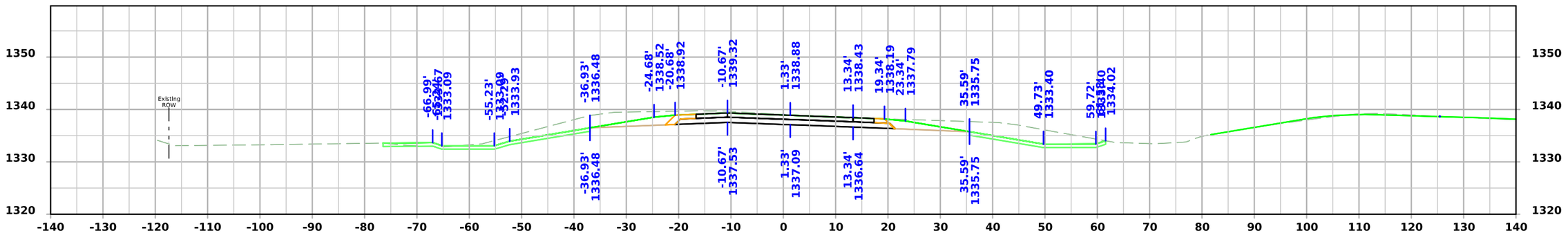
FILE NO.	ENGLISH	DESIGN TEAM Strum/Janus	CLAY COUNTY	PROJECT NUMBER HSIPX-018-2(142)--3H-21	SHEET NUMBER W.63

8:33:09 AM 7/2/2026 ajanus2 pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\2101802023\Design\CADD_Files\Sheet_Files\SHT_21018142_W03.dgn

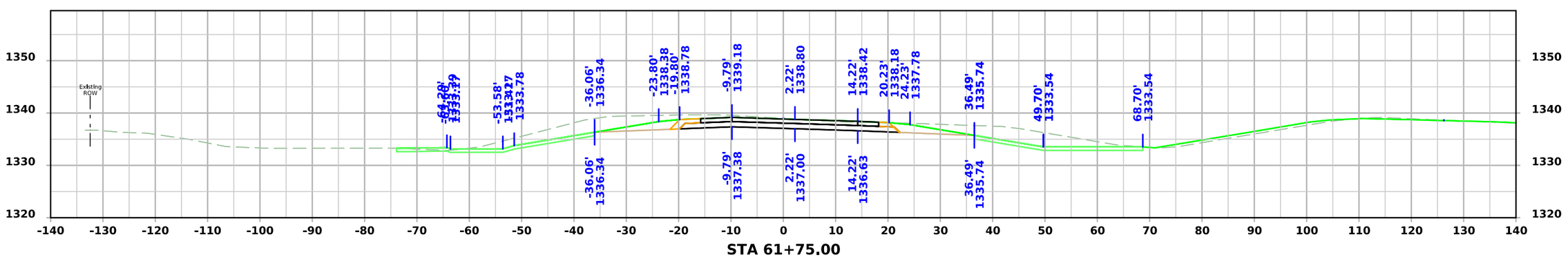
US 71 SB



STA 62+22.29



STA 62+00.00

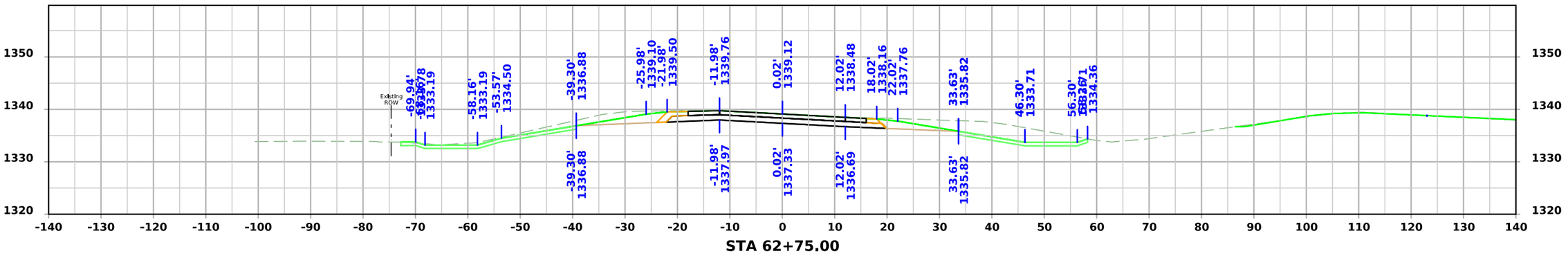


STA 61+75.00

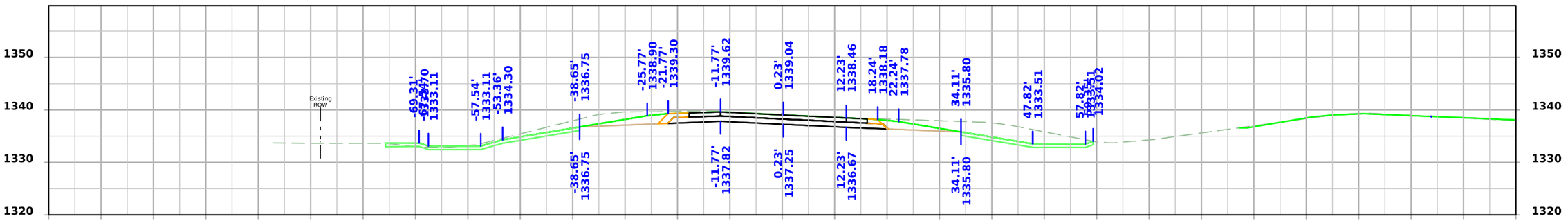
FILE NO.	ENGLISH	DESIGN TEAM Strum/Janus	CLAY COUNTY	PROJECT NUMBER HSIPX-018-2(142)--3H-21	SHEET NUMBER W.64

8:33:11 AM 7/2/2026 ajanus2 pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\2101802023\Design\CADD_Files\Sheet_Files\SHT_21018142_W03.dgn

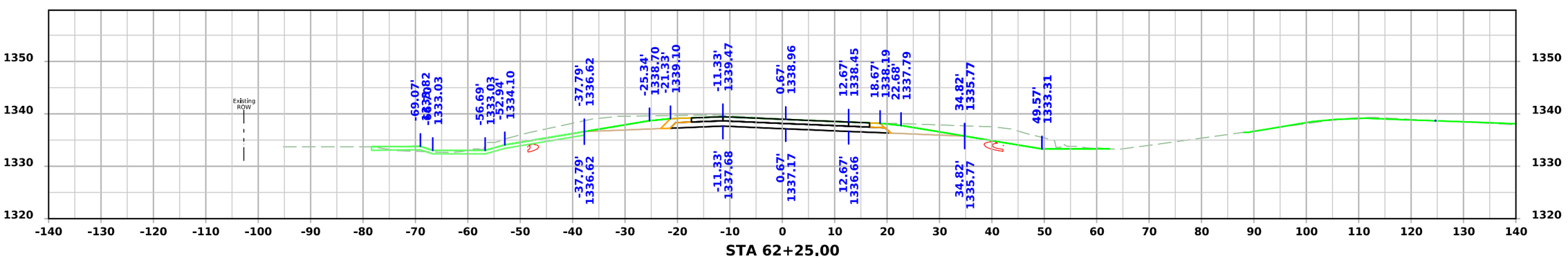
US 71 SB



STA 62+75.00



STA 62+50.00

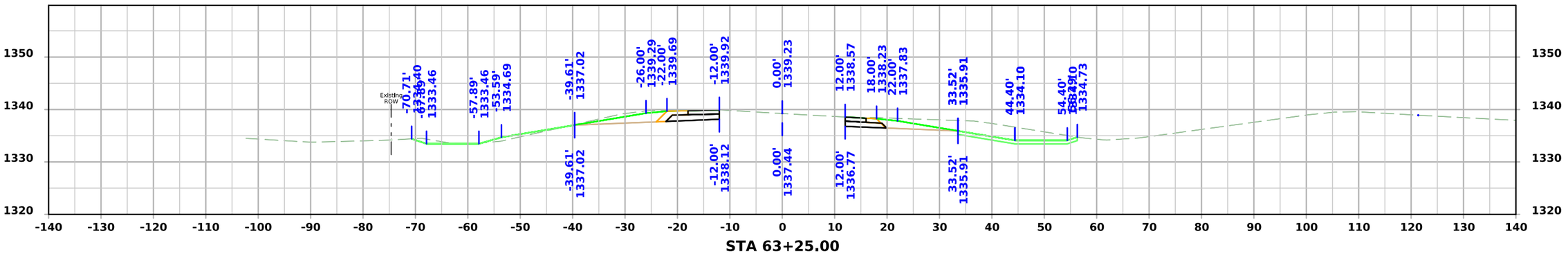


STA 62+25.00

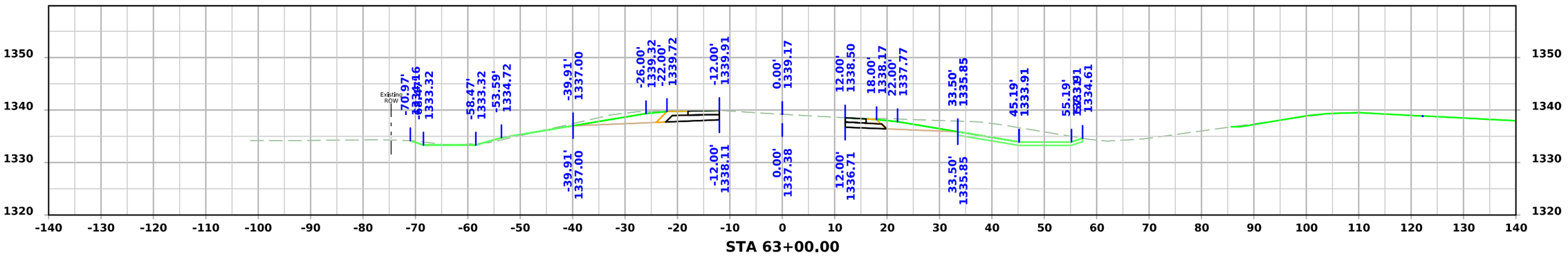
FILE NO.	ENGLISH	DESIGN TEAM Strum/Janus	CLAY COUNTY	PROJECT NUMBER HSIPX-018-2(142)--3H-21	SHEET NUMBER W.65

8:33:12 AM 7/2/2026 ajanus2 pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\2101802023\Design\CADD_Files\Sheet_Files\SHT_21018142_W03.dgn

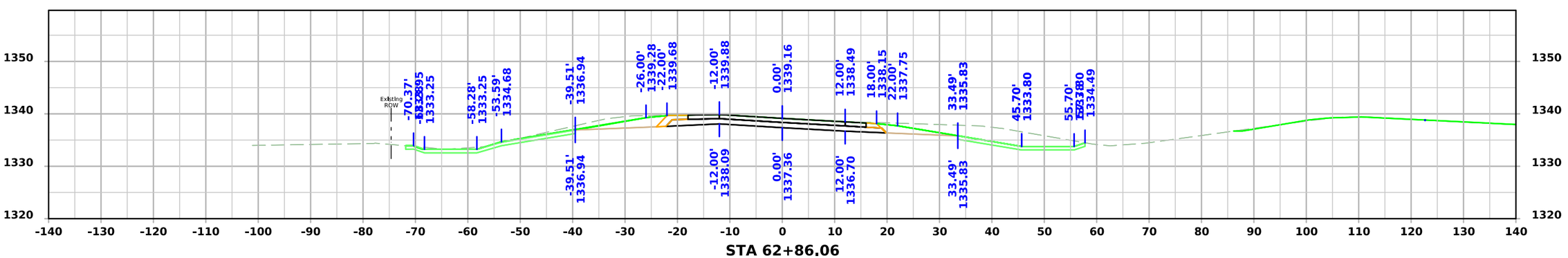
US 71 SB



STA 63+25.00



STA 63+00.00

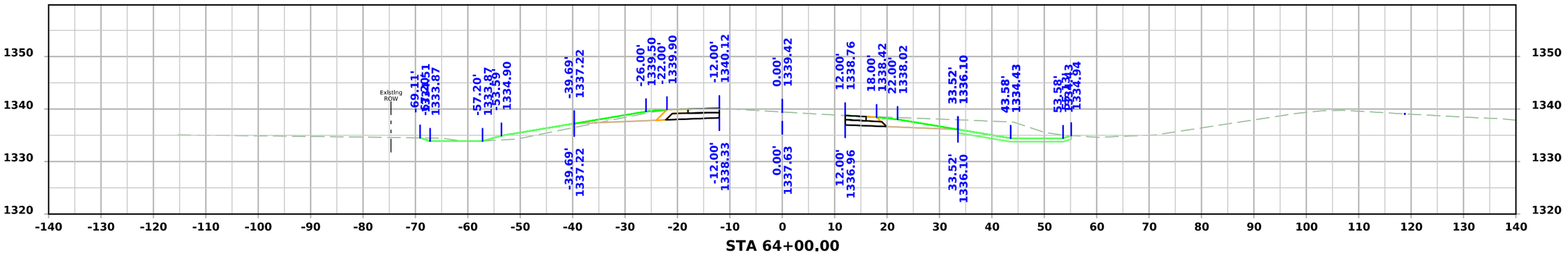


STA 62+86.06

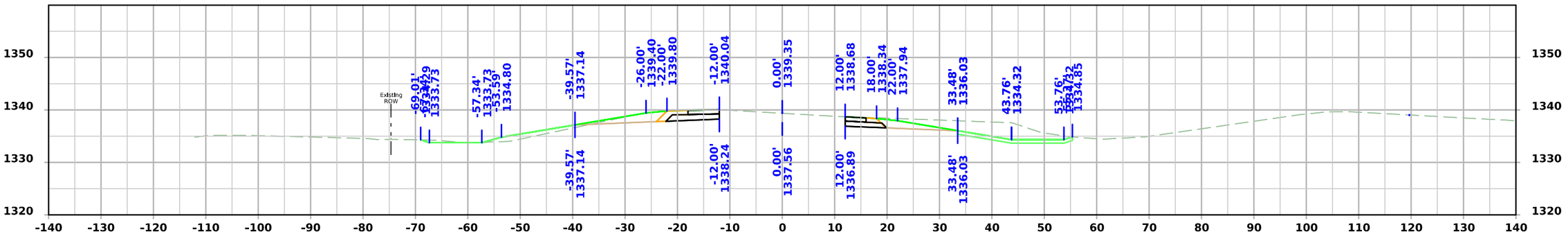
FILE NO.	ENGLISH	DESIGN TEAM Strum/Janus	CLAY COUNTY	PROJECT NUMBER HSIPX-018-2(142)--3H-21	SHEET NUMBER W.66

8:33:13 AM 7/2/2026 ajanus2 pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\2101802023\Design\CADD_Files\Sheet_Files\SHT_21018142_W03.dgn

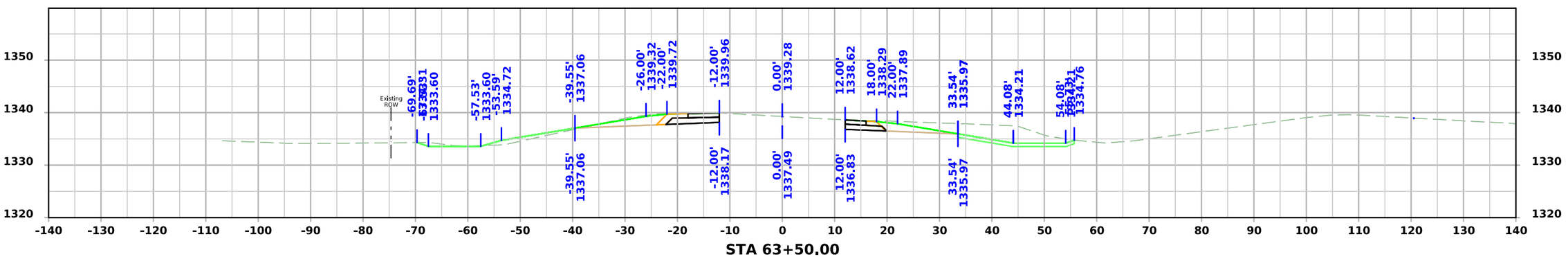
US 71 SB



STA 64+00.00



STA 63+75.00

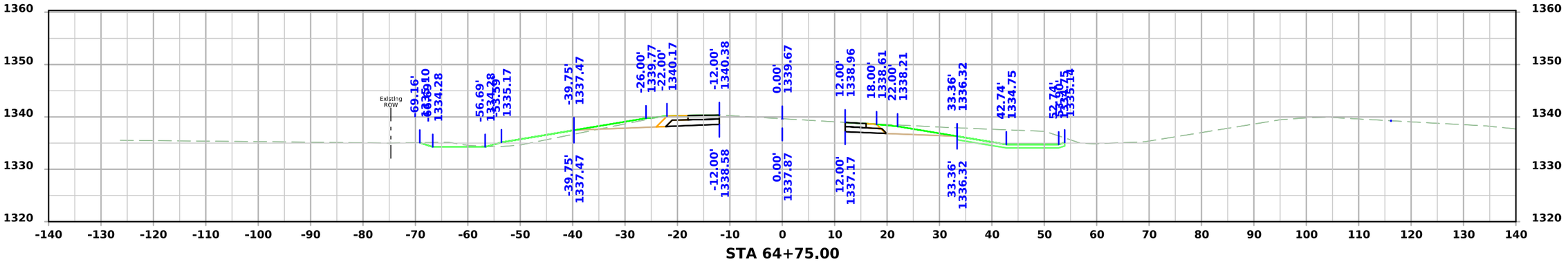


STA 63+50.00

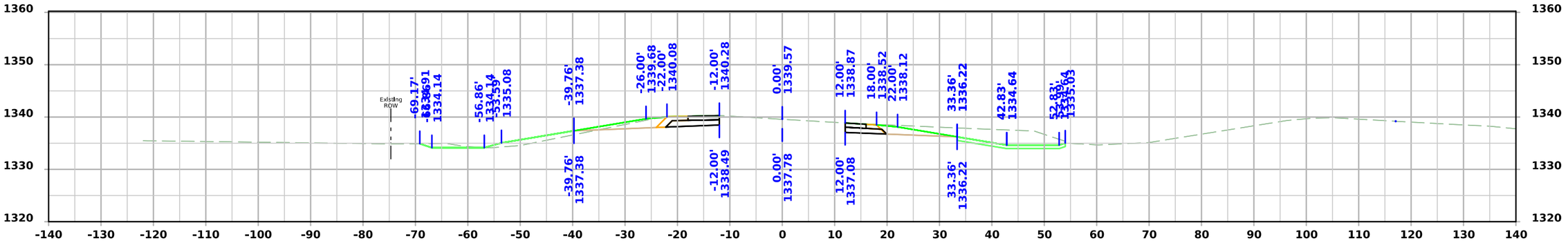
FILE NO.	ENGLISH	DESIGN TEAM Strum/Janus	CLAY COUNTY	PROJECT NUMBER HSIPX-018-2(142)--3H-21	SHEET NUMBER W.67

8:33:14 AM 7/2/2026 ajanus2 pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\2101802023\Design\CADD_Files\Sheet_Files\SHT_21018142_W03.dgn

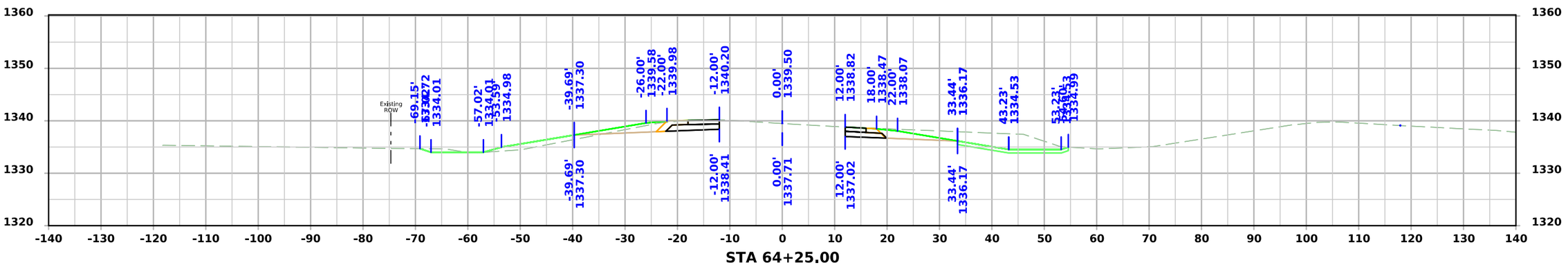
US 71 SB



STA 64+75.00



STA 64+50.00

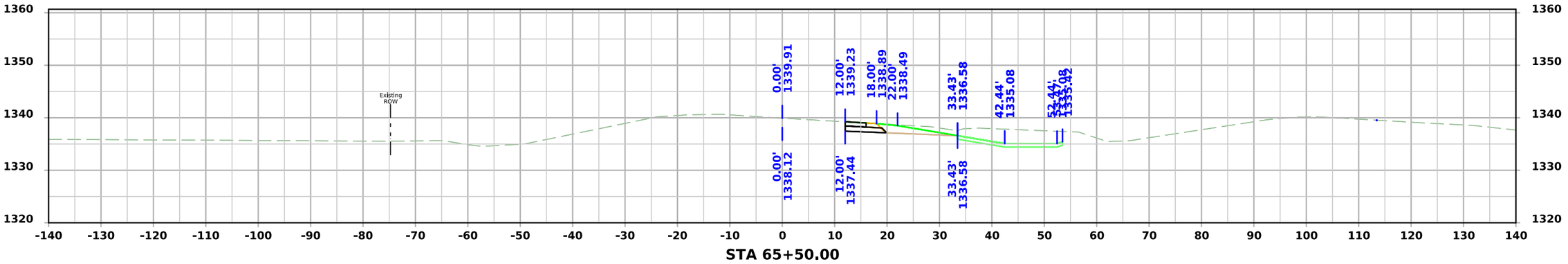


STA 64+25.00

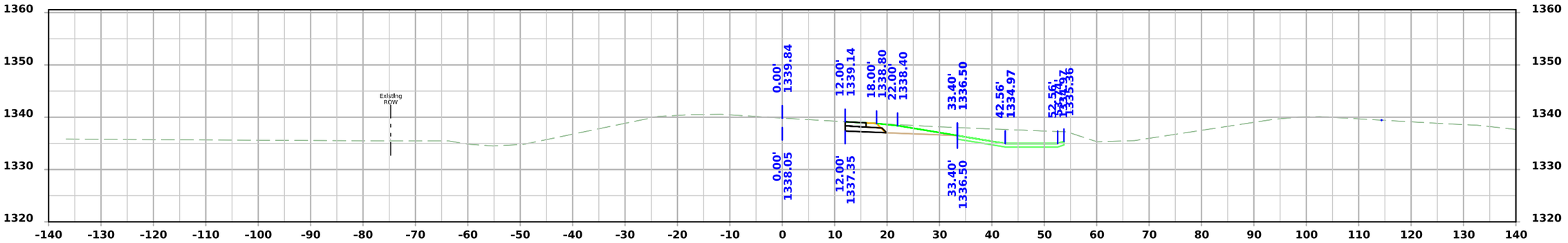
FILE NO.	ENGLISH	DESIGN TEAM Strum/Janus	CLAY COUNTY	PROJECT NUMBER HSIPX-018-2(142)--3H-21	SHEET NUMBER W.68

8:33:15 AM 7/2/2026 ajanus2 pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\2101802023\Design\CADD_Files\Sheet_Files\SHT_21018142_W03.dgn

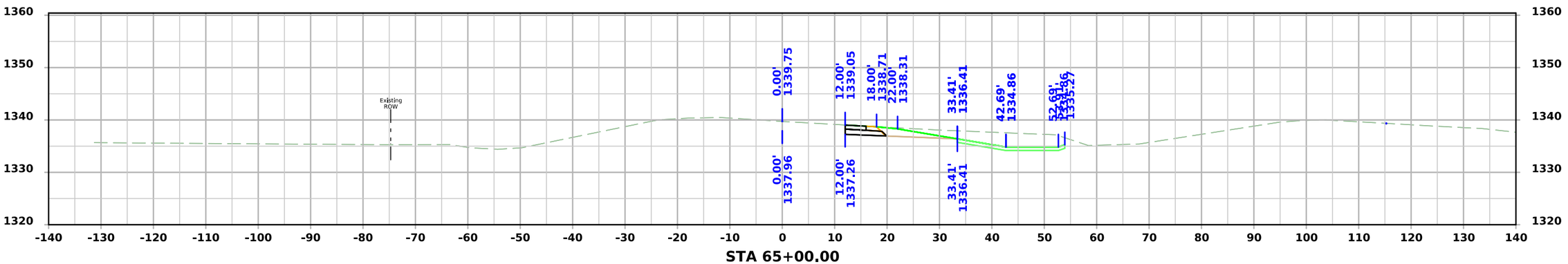
US 71 SB



STA 65+50.00



STA 65+25.00

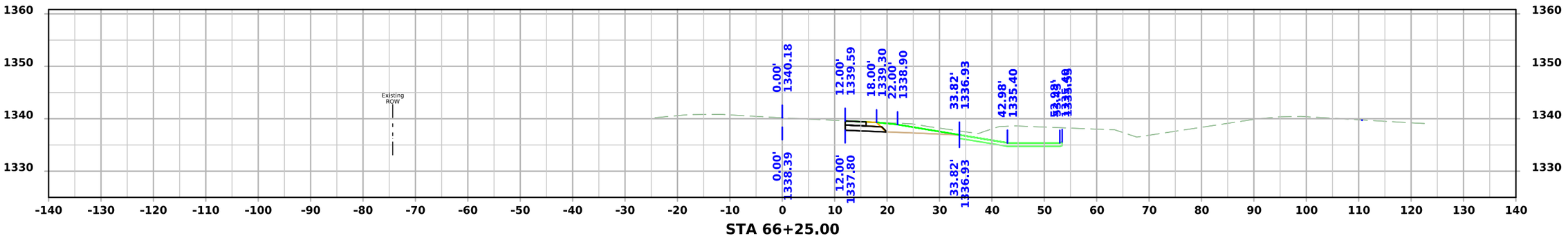


STA 65+00.00

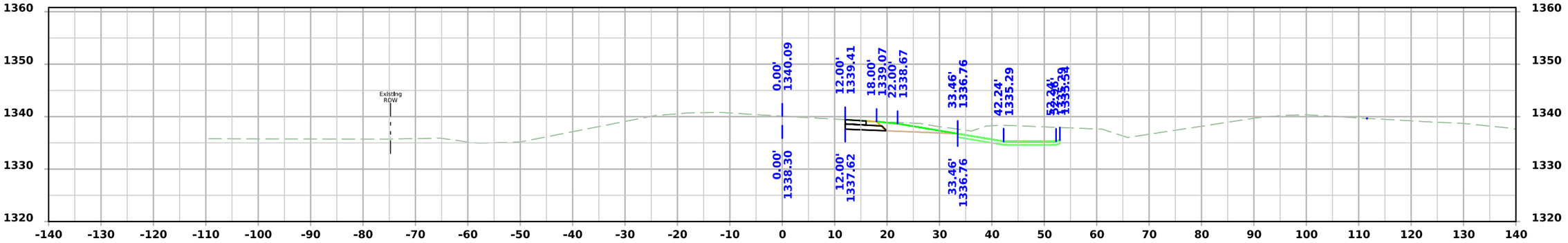
FILE NO.	ENGLISH	DESIGN TEAM Strum/Janus	CLAY COUNTY	PROJECT NUMBER HSIPX-018-2(142)--3H-21	SHEET NUMBER W.69

8:33:16 AM 7/2/2026 ajanus2 pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\2101802023\Design\CADD_Files\Sheet_Files\SHT_21018142_W03.dgn

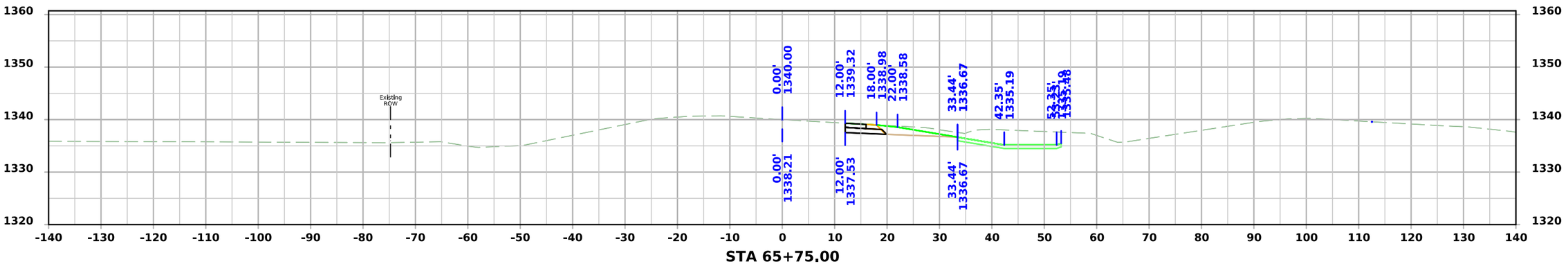
US 71 SB



STA 66+25.00



STA 66+00.00

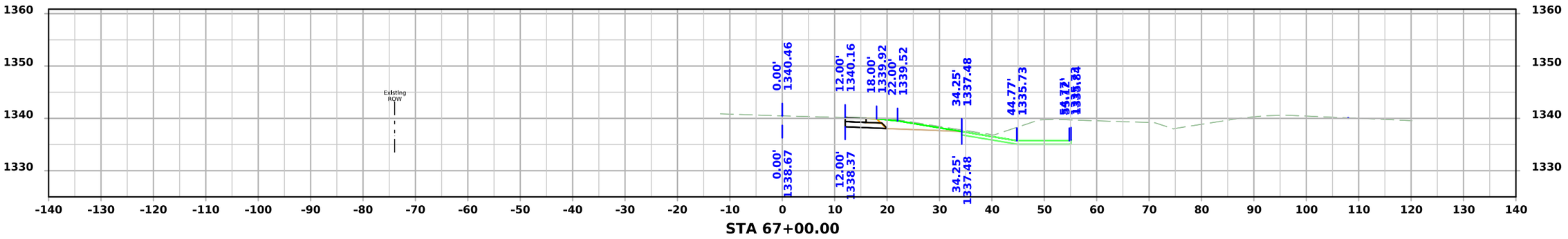


STA 65+75.00

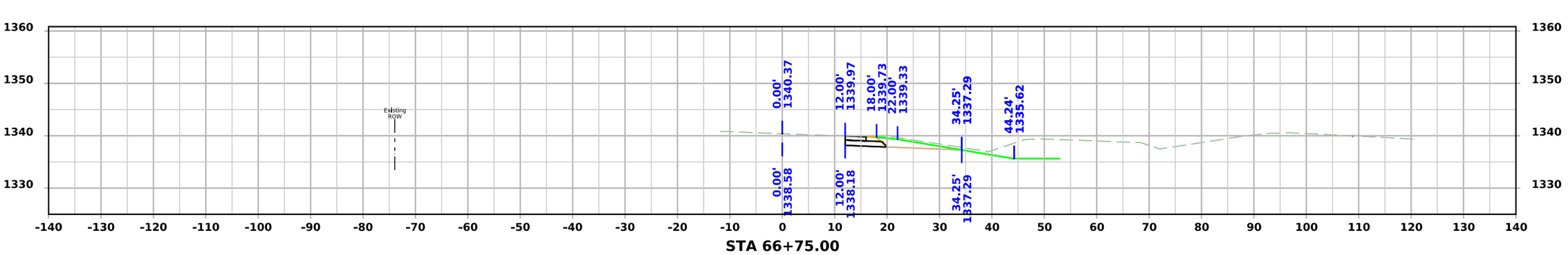
FILE NO.	ENGLISH	DESIGN TEAM Strum/Janus	CLAY COUNTY	PROJECT NUMBER HSIPX-018-2(142)--3H-21	SHEET NUMBER W.70

8:33:17 AM 7/2/2026 ajanus2 pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\2101802023\Design\CADD_Files\Sheet_Files\SHT_21018142_W03.dgn

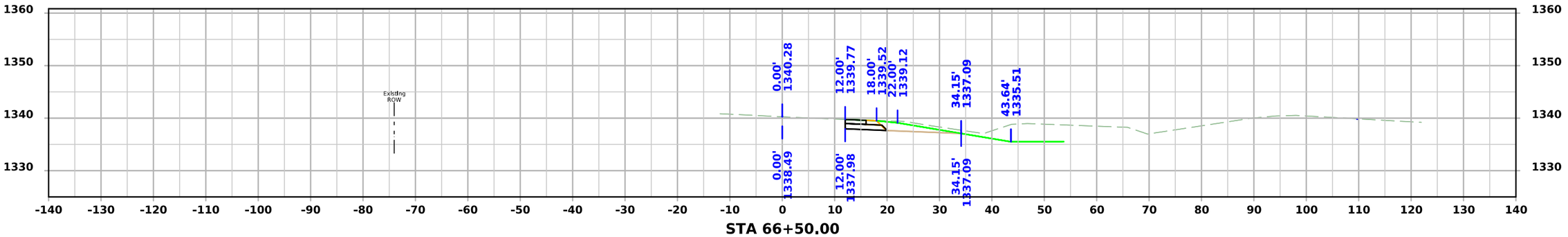
US 71 SB



STA 67+00.00



STA 66+75.00

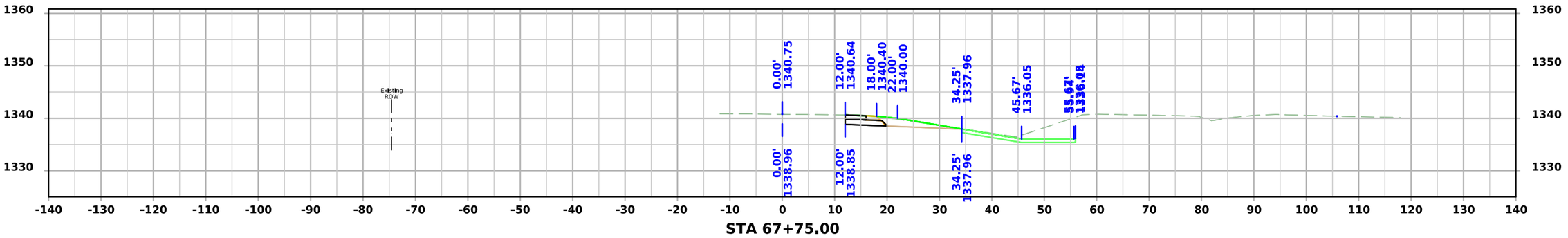


STA 66+50.00

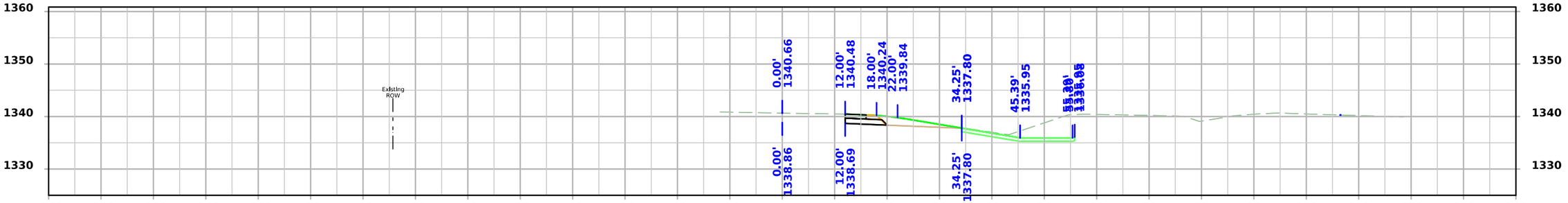
FILE NO.	ENGLISH	DESIGN TEAM Strum/Janus	CLAY COUNTY	PROJECT NUMBER HSIPX-018-2(142)--3H-21	SHEET NUMBER W.71

8:33:18 AM 7/2/2026 ajanus2 pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\2101802023\Design\CADD_Files\Sheet_Files\SHT_21018142_W03.dgn

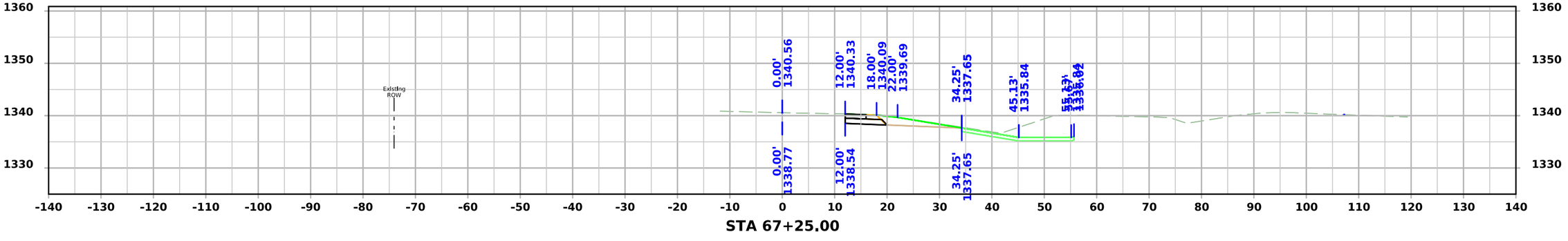
US 71 SB



STA 67+75.00



STA 67+50.00

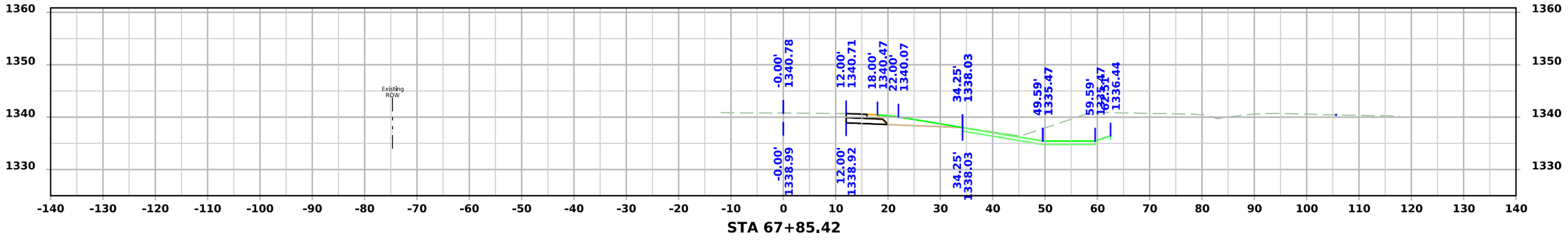


STA 67+25.00

FILE NO.	ENGLISH	DESIGN TEAM Strum/Janus	CLAY COUNTY	PROJECT NUMBER HSIPX-018-2(142)--3H-21	SHEET NUMBER W.72

8:33:19 AM 7/2/2026 ajanus2 pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\2101802023\Design\CADD_Files\Sheet_Files\SHT_21018142_W03.dgn

US 71 SB

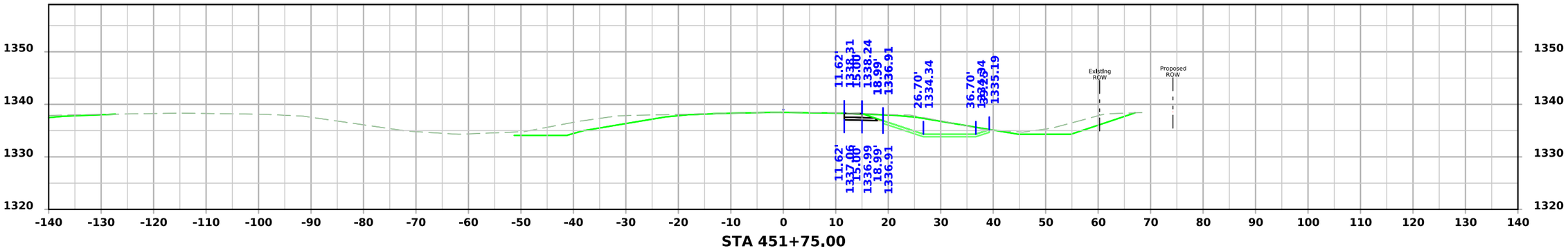


STA 67+85.42

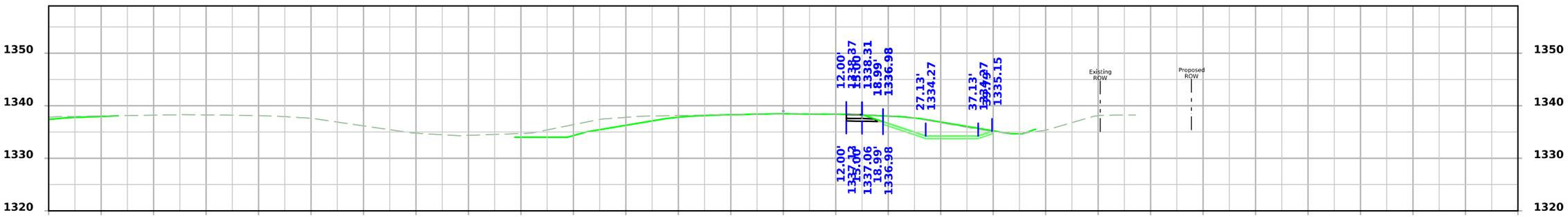
FILE NO.	ENGLISH	DESIGN TEAM Strum/Janus	CLAY COUNTY	PROJECT NUMBER HSIPX-018-2(142)--3H-21	SHEET NUMBER W.73

8:33:20 AM 7/2/2026 ajanus2 pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\2101802023\Design\CADD_Files\Sheet_Files\SHT_21018142_W03.dgn

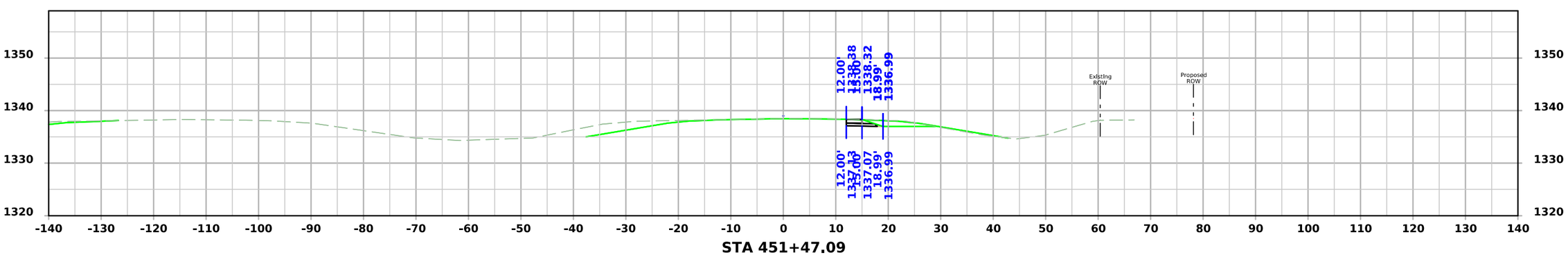
DETOUR US71NB



STA 451+75.00



STA 451+50.00

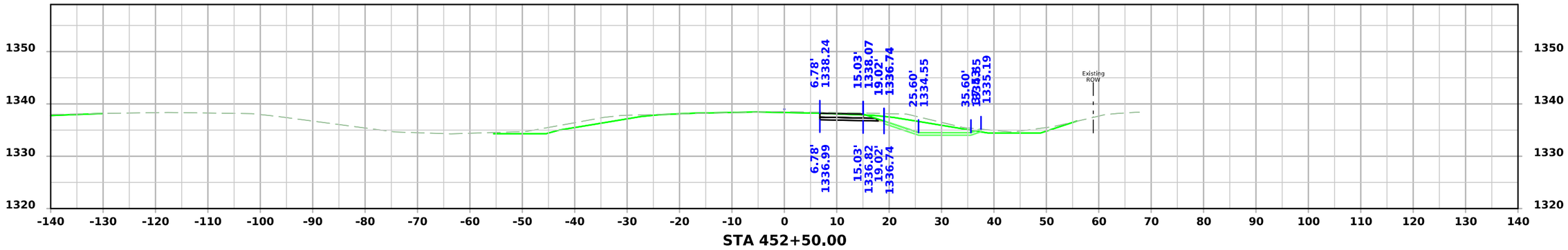


STA 451+47.09

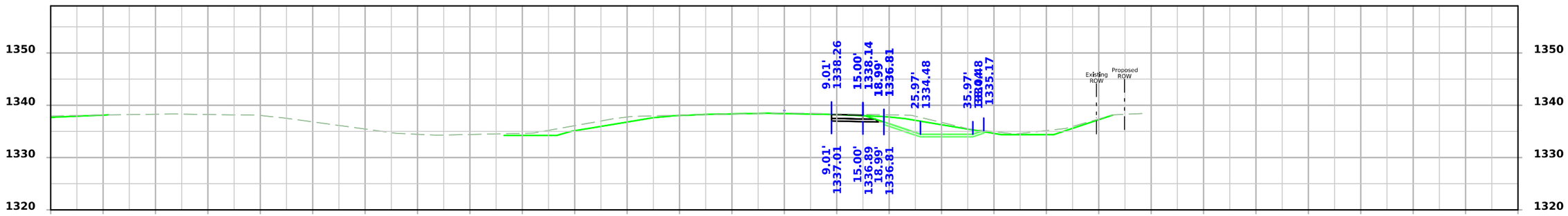
FILE NO.	ENGLISH	DESIGN TEAM Strum/Janus	CLAY COUNTY	PROJECT NUMBER HSIPX-018-2(142)--3H-21	SHEET NUMBER W.74

8:33:25 AM 7/2/2026 ajanus2 pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\2101802023\Design\CADD_Files\Sheet_Files\SHT_21018142_W04.dgn

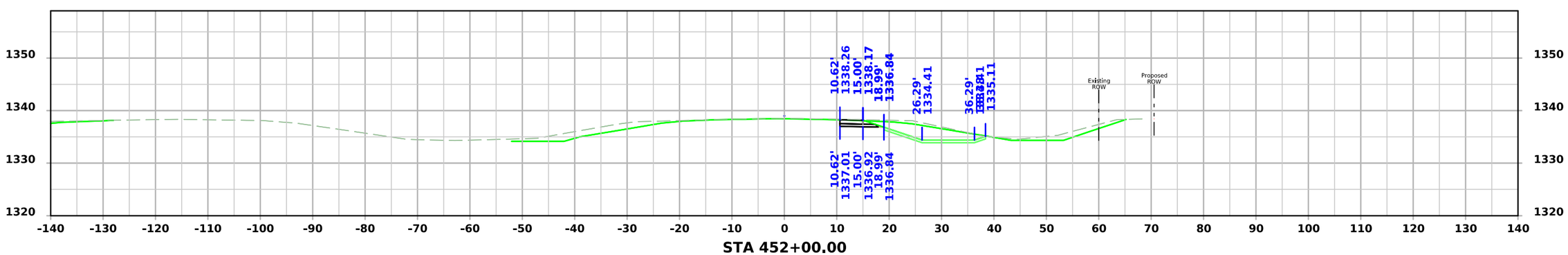
DETOUR US71NB



STA 452+50.00



STA 452+25.00

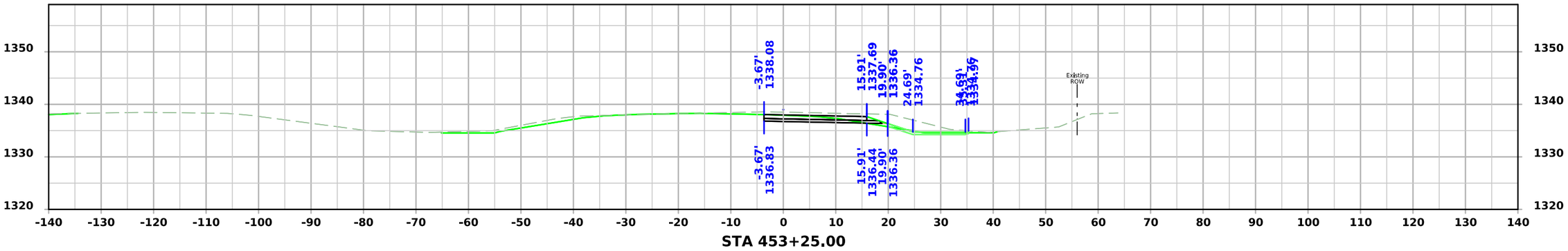


STA 452+00.00

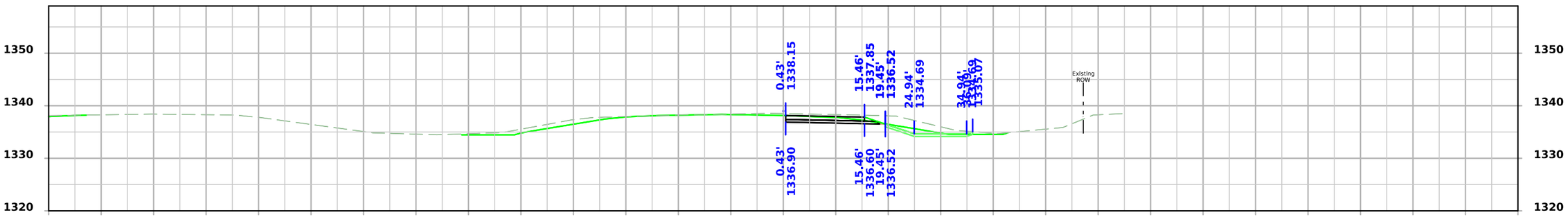
FILE NO.	ENGLISH	DESIGN TEAM Strum/Janus	CLAY COUNTY	PROJECT NUMBER HSIPX-018-2(142)--3H-21	SHEET NUMBER W.75	

8:33:26 AM 7/2/2026 ajanus2 pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\2101802023\Design\CADD_Files\Sheet_Files\SHT_21018142_W04.dgn

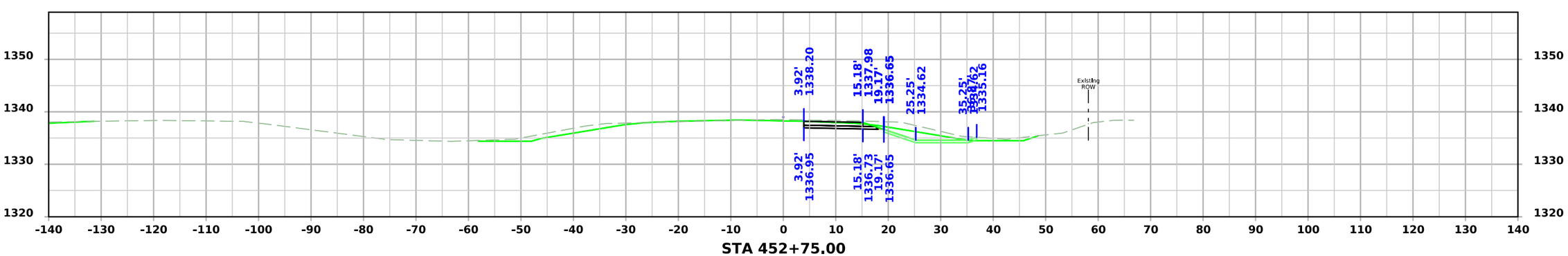
DETOUR US71NB



STA 453+25.00



STA 453+00.00

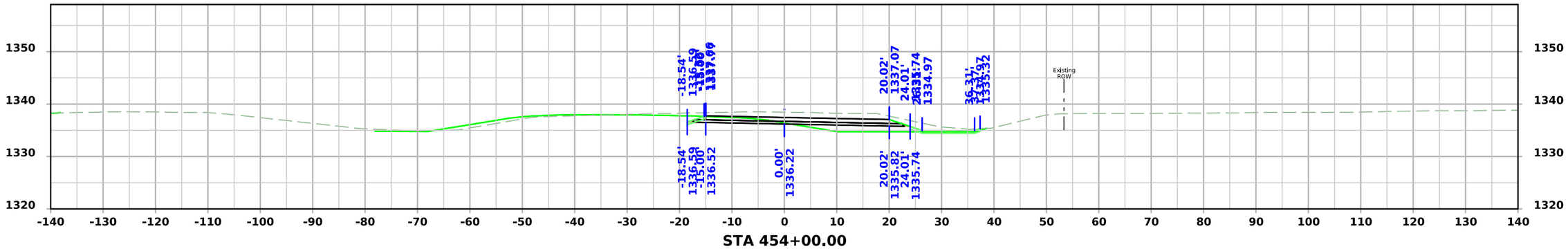


STA 452+75.00

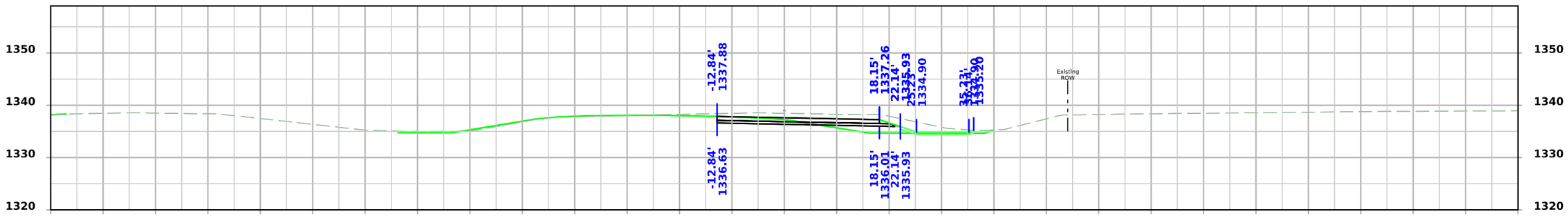
FILE NO.	ENGLISH	DESIGN TEAM Strum/Janus	CLAY COUNTY	PROJECT NUMBER HSIPX-018-2(142)--3H-21	SHEET NUMBER W.76

8:33:26 AM 7/2/2026 ajanus2 pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\2101802023\Design\CADD_Files\Sheet_Files\SHT_21018142_W04.dgn

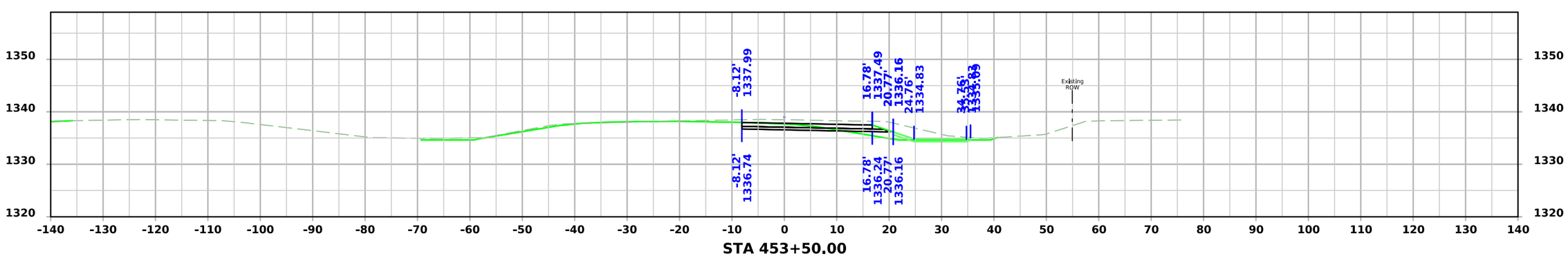
DETOUR US71NB



STA 454+00.00



STA 453+75.00

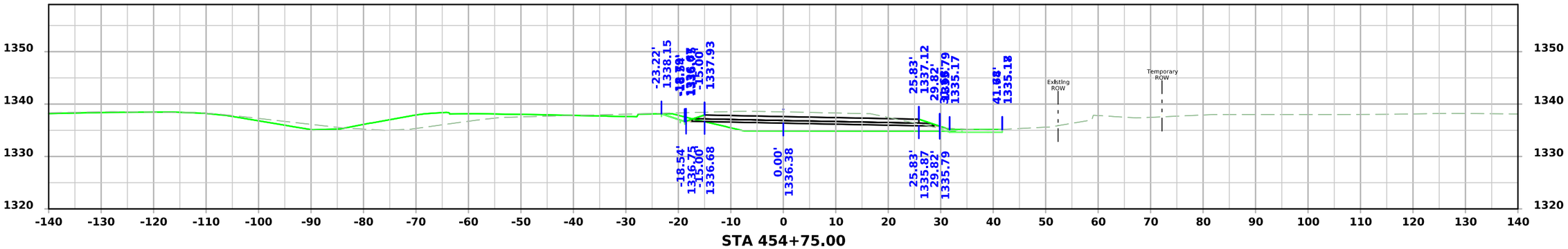


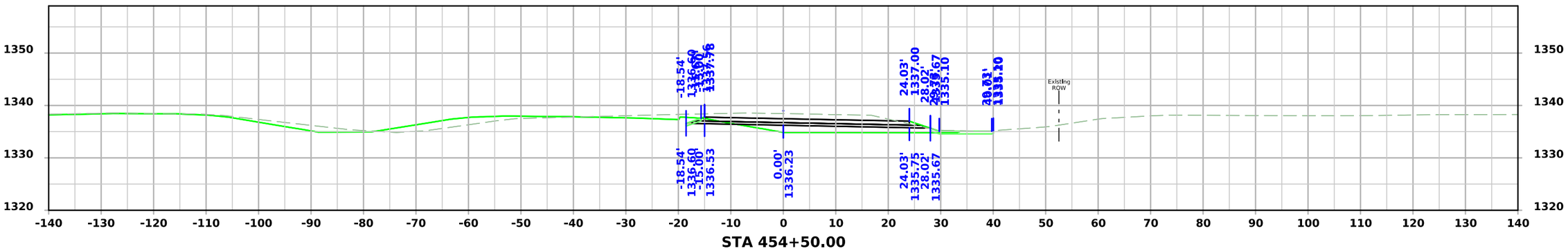
STA 453+50.00

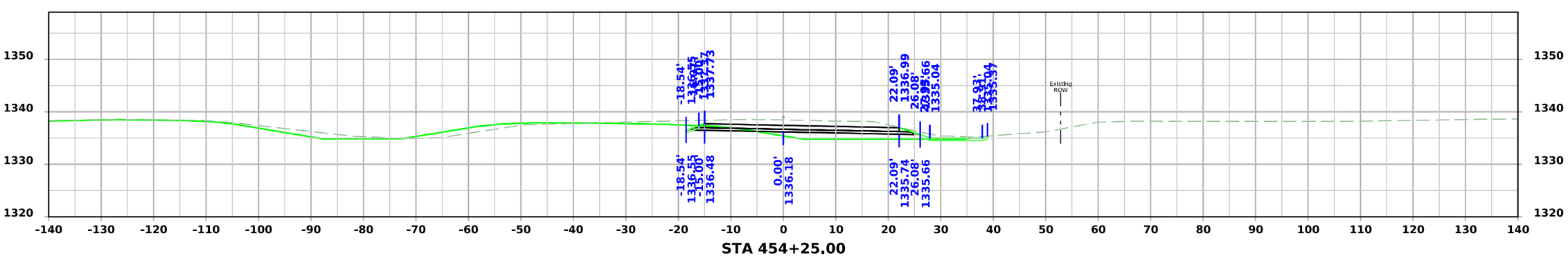
FILE NO.	ENGLISH	DESIGN TEAM Strum/Janus	CLAY COUNTY	PROJECT NUMBER HSIPX-018-2(142)--3H-21	SHEET NUMBER W.77

8:33:26 AM 7/2/2026 ajanus2 pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\2101802023\Design\CADD_Files\Sheet_Files\SHT_21018142_W04.dgn

DETOUR US71NB



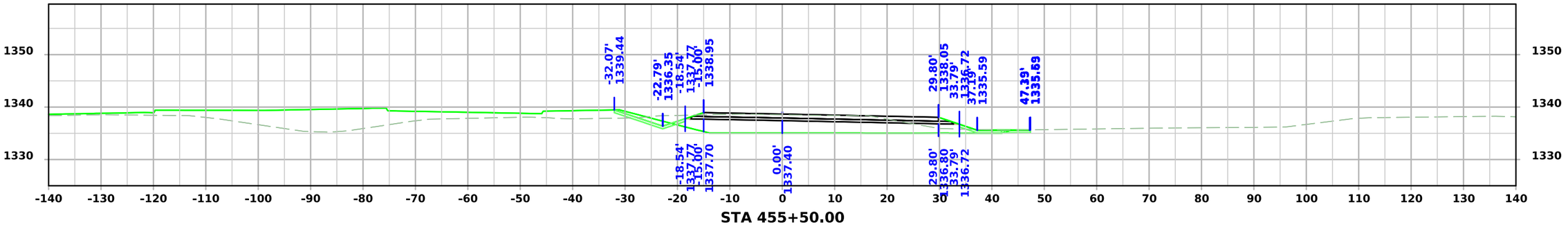


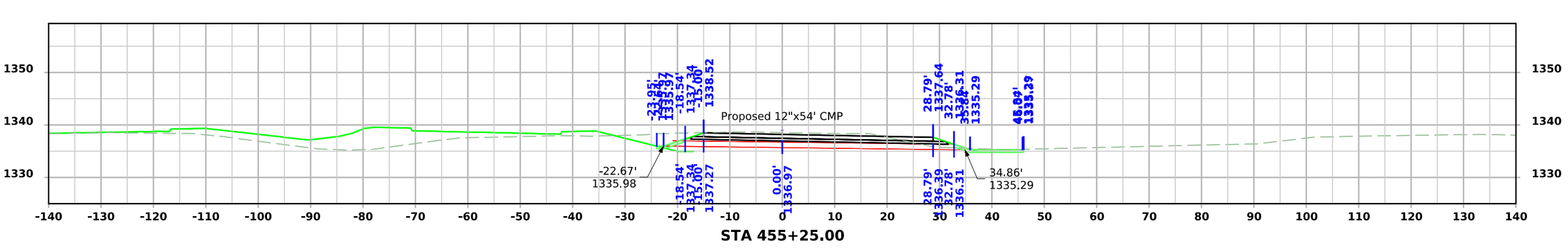


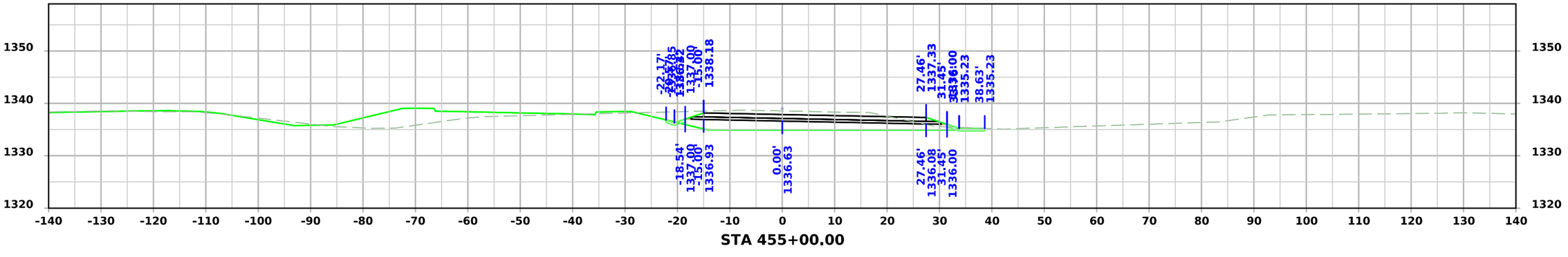
FILE NO.	ENGLISH	DESIGN TEAM Strum/Janus	CLAY COUNTY	PROJECT NUMBER HSIPX-018-2(142)--3H-21	SHEET NUMBER W.78

8:33:27 AM 7/2/2026 ajanus2 pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\2101802023\Design\CADD_Files\Sheet_Files\SHT_21018142_W04.dgn

DETOUR US71NB



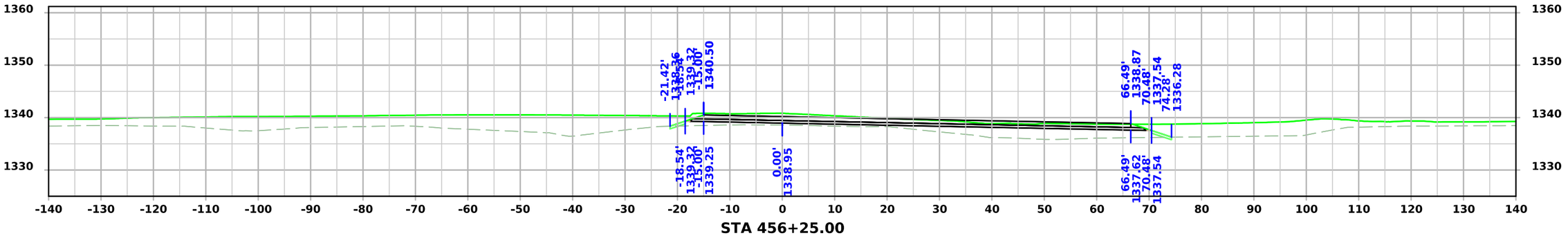


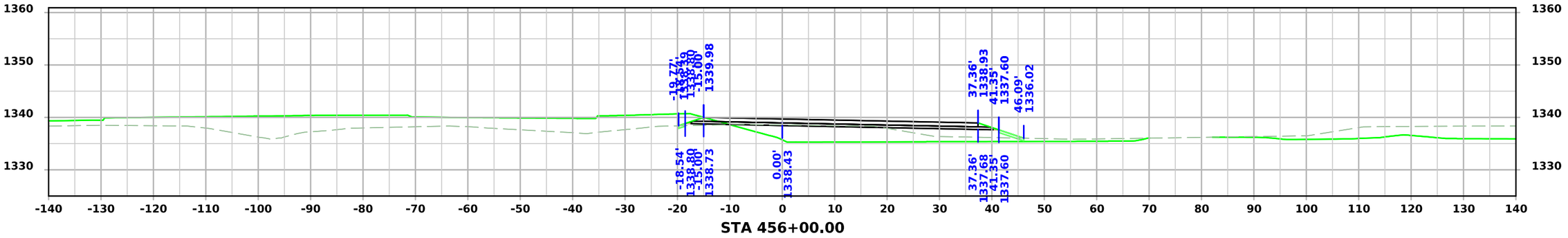


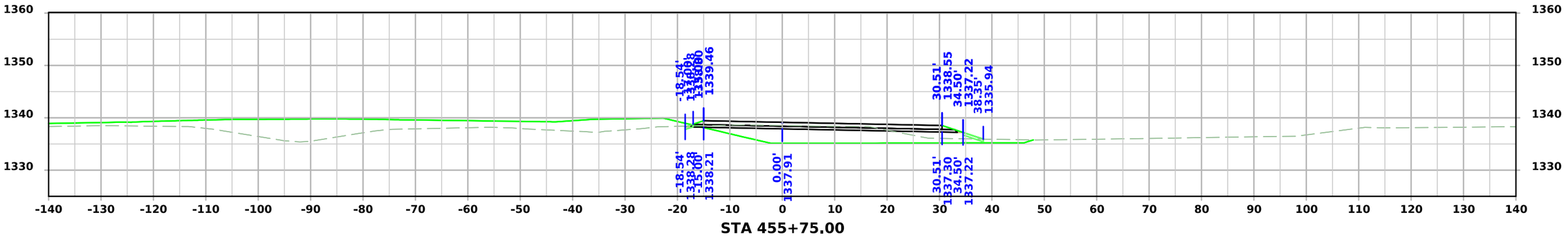
FILE NO.	ENGLISH	DESIGN TEAM Strum/Janus	CLAY COUNTY	PROJECT NUMBER HSIPX-018-2(142)--3H-21	SHEET NUMBER W.79

8:33:27 AM 7/2/2026 ajanus2 pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\2101802023\Design\CADD_Files\Sheet_Files\SHT_21018142_W04.dgn

DETOUR US71NB



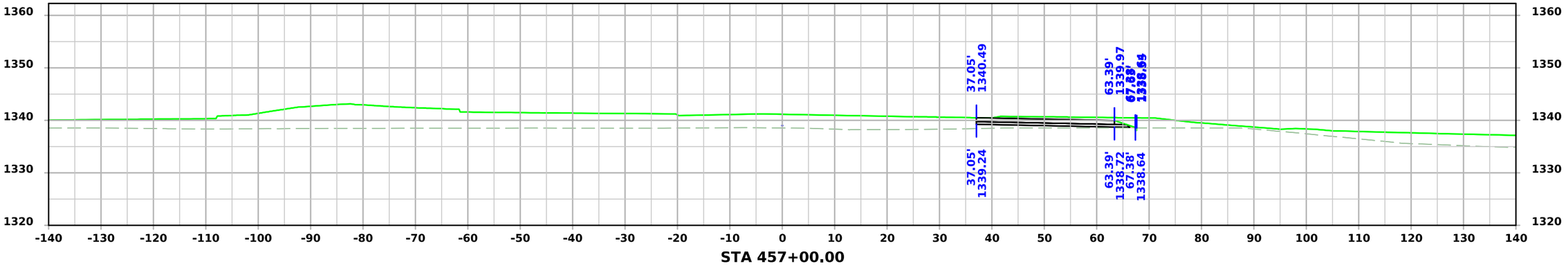




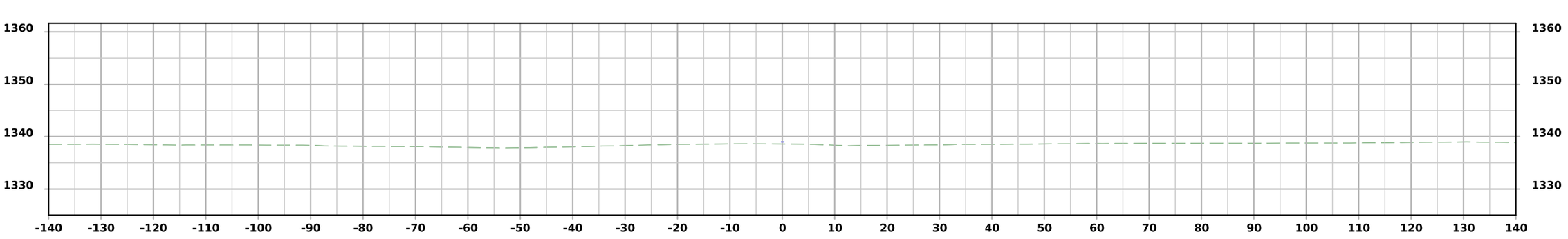
FILE NO.	ENGLISH	DESIGN TEAM Strum/Janus	CLAY COUNTY	PROJECT NUMBER HSIPX-018-2(142)--3H-21	SHEET NUMBER W.80

8:33:28 AM 7/2/2026 ajanus2 pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\2101802023\Design\CADD_Files\Sheet_Files\SHT_21018142_W04.dgn

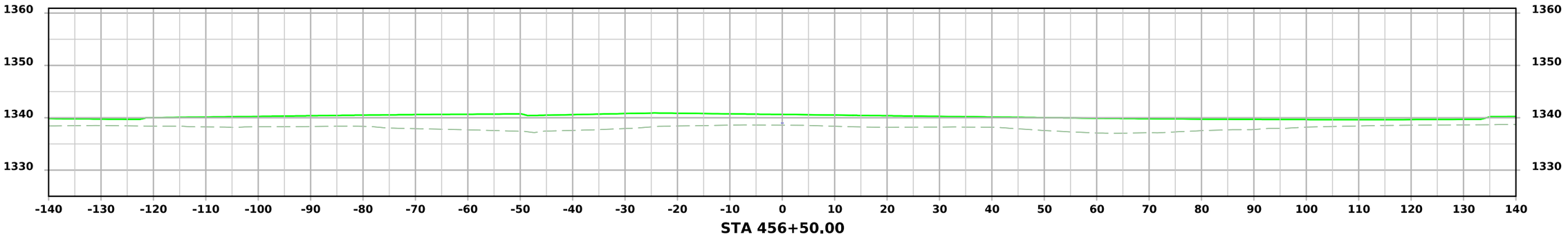
DETOUR US71NB



STA 457+00.00



STA 456+75.00

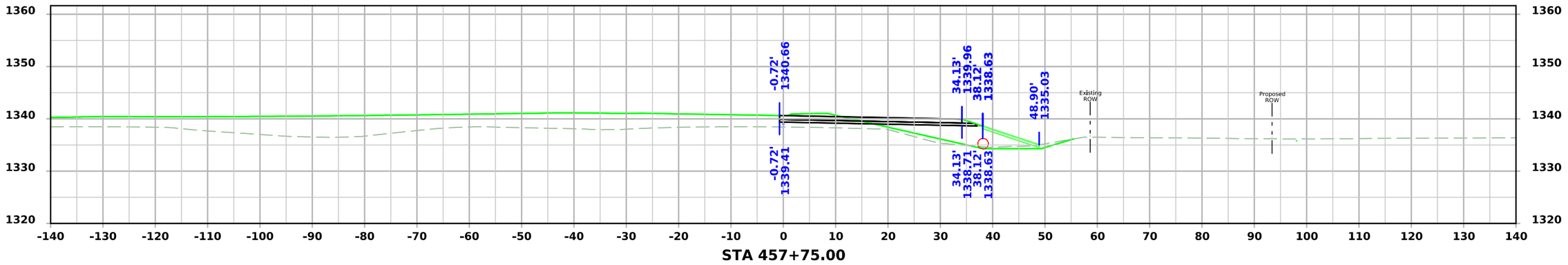


STA 456+50.00

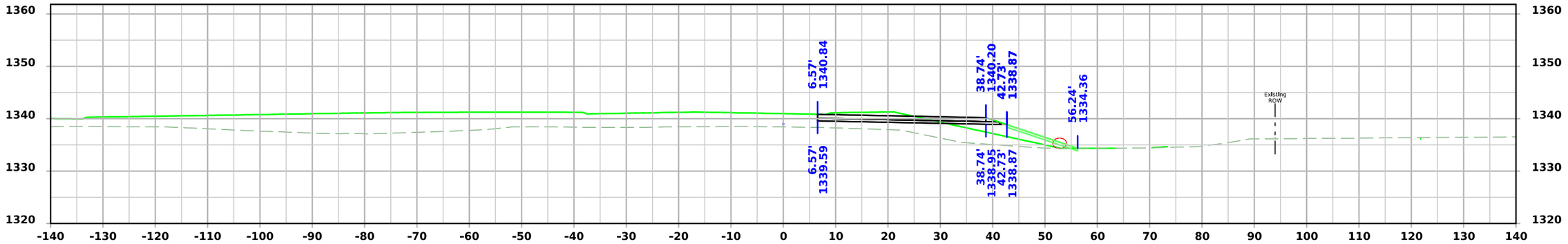
FILE NO.	ENGLISH	DESIGN TEAM Strum/Janus	CLAY COUNTY	PROJECT NUMBER HSIPX-018-2(142)--3H-21	SHEET NUMBER W.81

8:33:28 AM 7/2/2026 ajanus2 pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\2101802023\Design\CADD_Files\Sheet_Files\SHT_21018142_W04.dgn

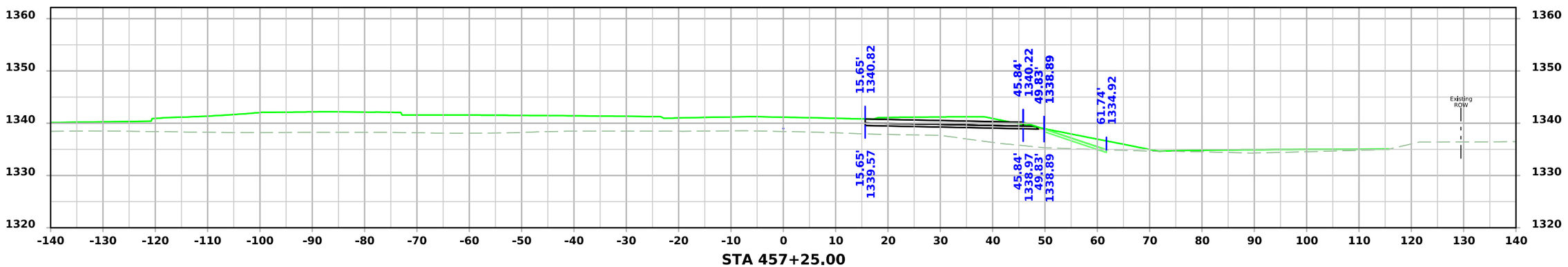
DETOUR US71NB



STA 457+75.00



STA 457+50.00

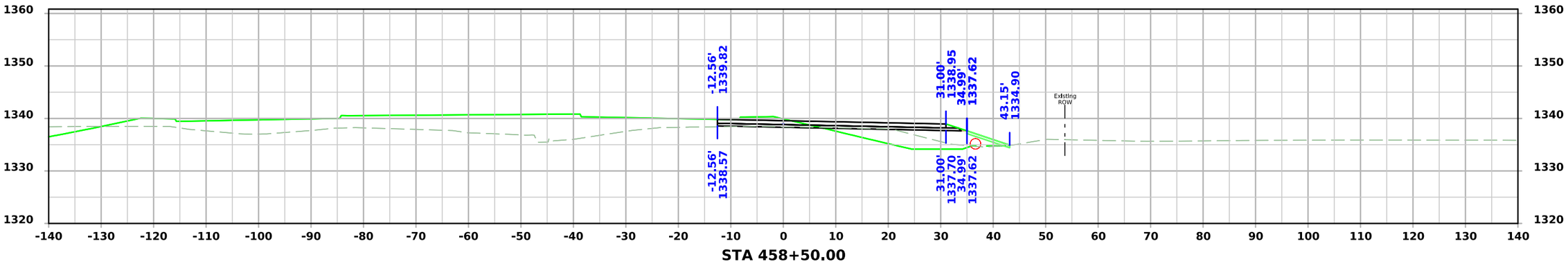


STA 457+25.00

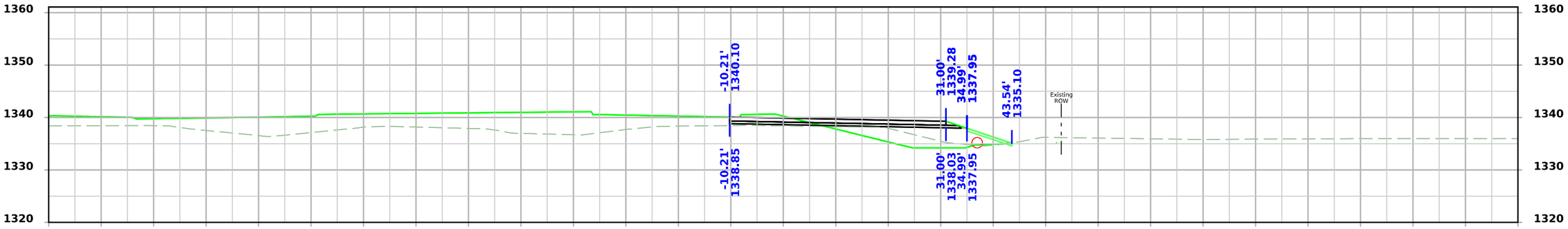
FILE NO.	ENGLISH	DESIGN TEAM Strum/Janus	CLAY COUNTY	PROJECT NUMBER HSIPX-018-2(142)--3H-21	SHEET NUMBER W.82	

8:33:29 AM 7/2/2026 ajanus2 pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\2101802023\Design\CADD_Files\Sheet_Files\SHT_21018142_W04.dgn

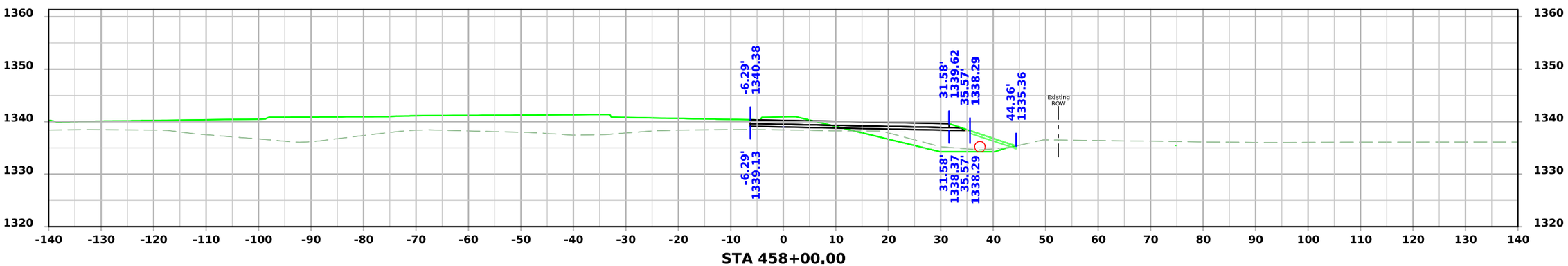
DETOUR US71NB



STA 458+50.00



STA 458+25.00

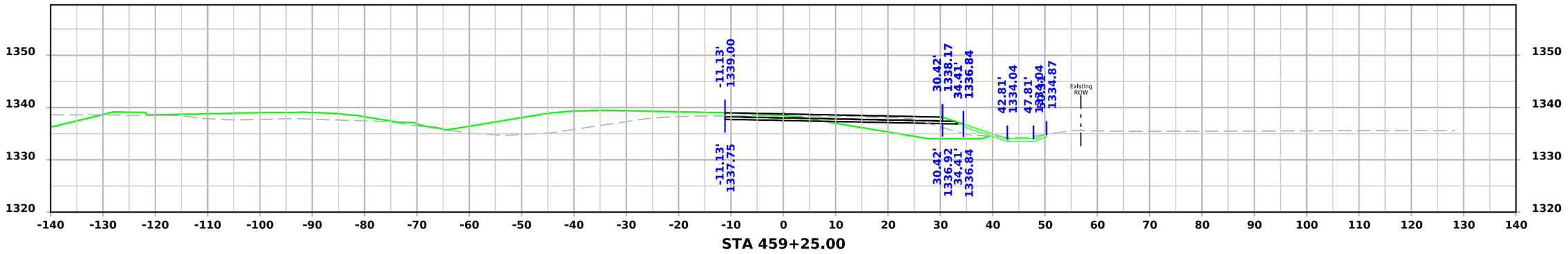


STA 458+00.00

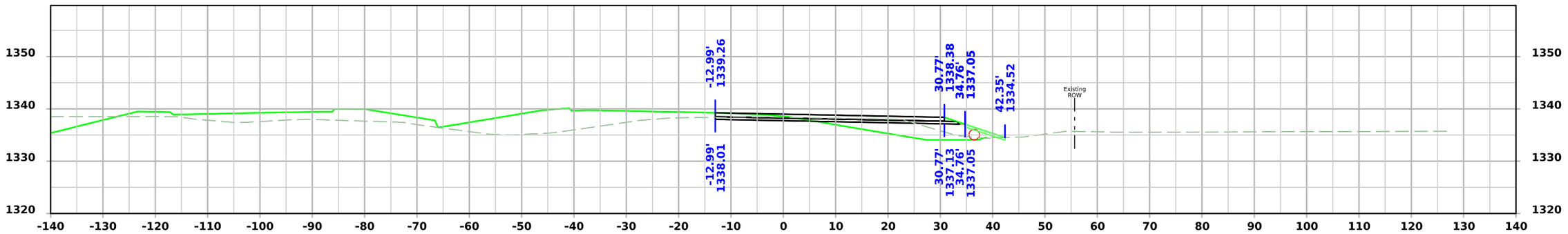
FILE NO.	ENGLISH	DESIGN TEAM Strum/Janus	CLAY COUNTY	PROJECT NUMBER HSIPX-018-2(142)--3H-21	SHEET NUMBER W.83

8:33:29 AM 7/2/2026 ajanus2 pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\2101802023\Design\CADD_Files\Sheet_Files\SHT_21018142_W04.dgn

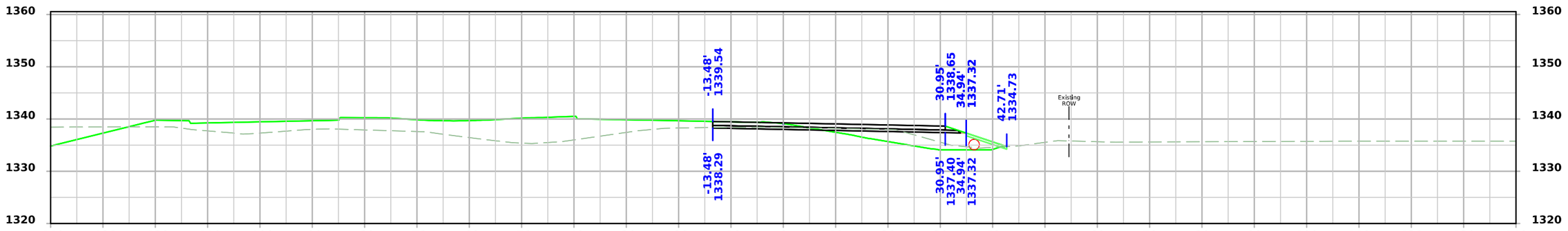
DETOUR US71NB



STA 459+25.00



STA 459+00.00

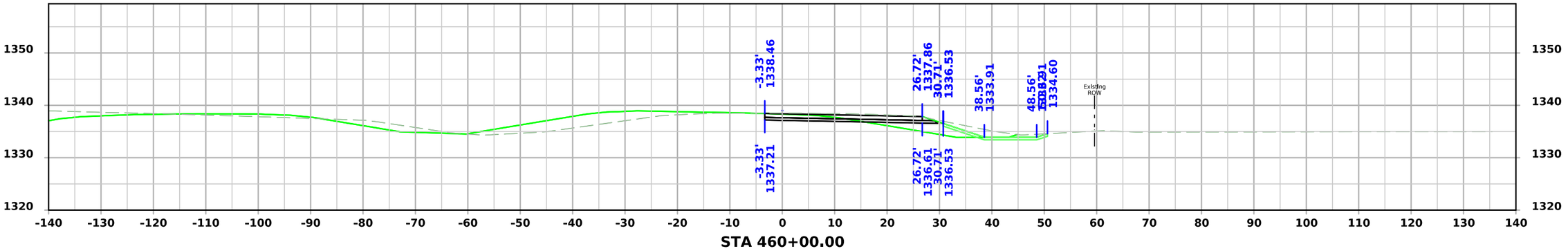


STA 458+75.00

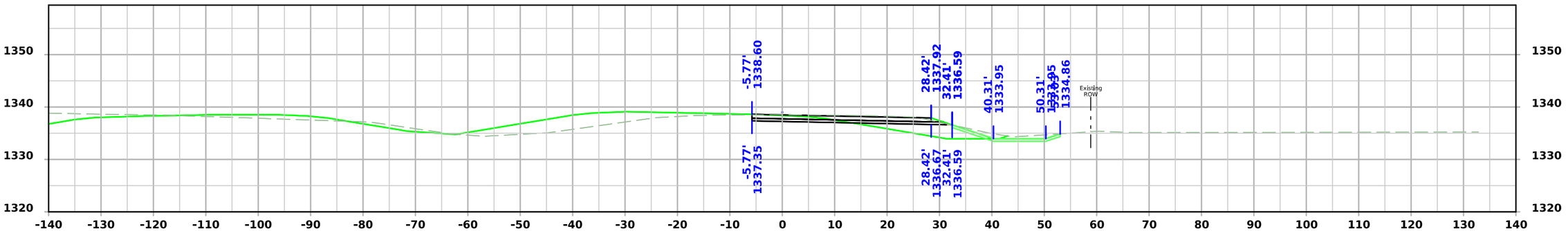
FILE NO.	ENGLISH	DESIGN TEAM Strum/Janus	CLAY COUNTY	PROJECT NUMBER HSIPX-018-2(142)--3H-21	SHEET NUMBER W.84

8:33:30 AM 7/2/2026 ajanus2 pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\2101802023\Design\CADD_Files\Sheet_Files\SHT_21018142_W04.dgn

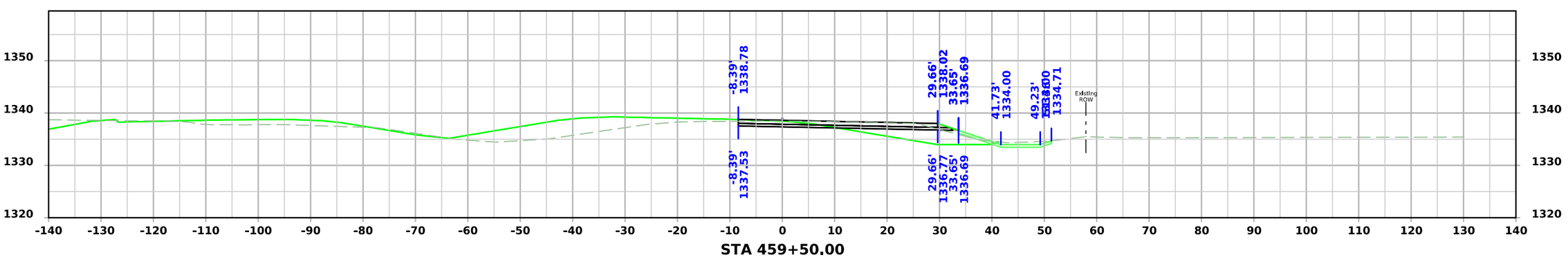
DETOUR US71NB



STA 460+00.00



STA 459+75.00

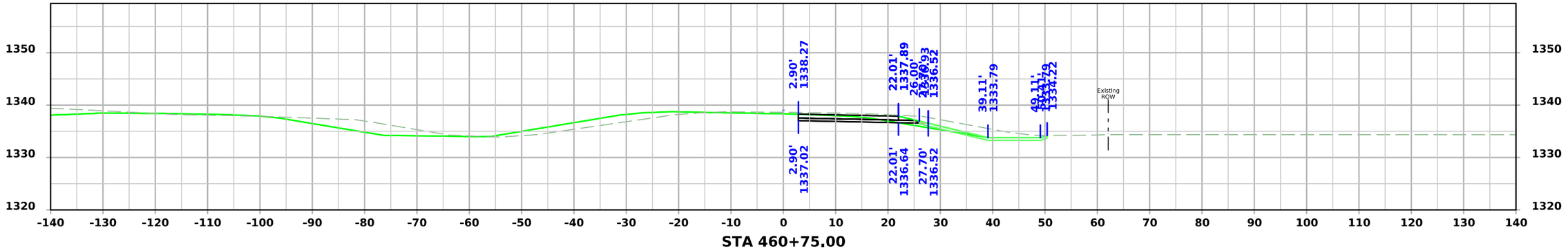


STA 459+50.00

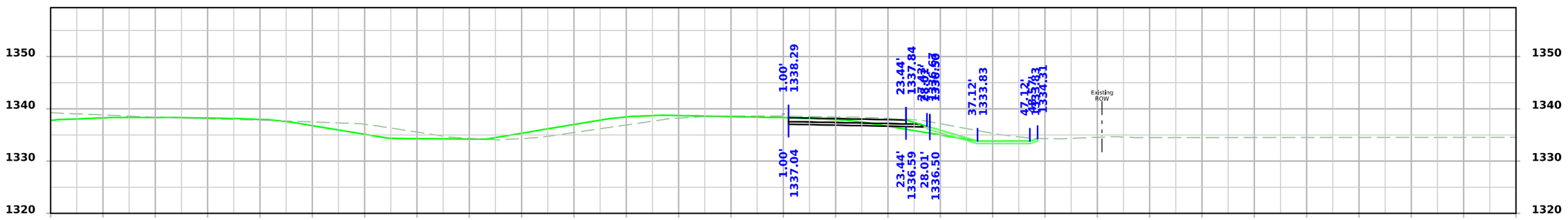
FILE NO.	ENGLISH	DESIGN TEAM Strum/Janus	CLAY COUNTY	PROJECT NUMBER HSIPX-018-2(142)--3H-21	SHEET NUMBER W.85

8:33:30 AM 7/2/2026 ajanus2 pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\2101802023\Design\CADD_Files\Sheet_Files\SHT_21018142_W04.dgn

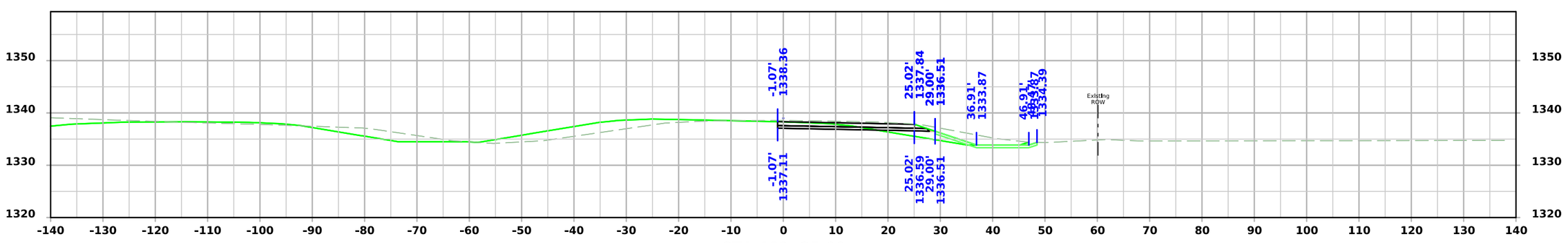
DETOUR US71NB



STA 460+75.00



STA 460+50.00

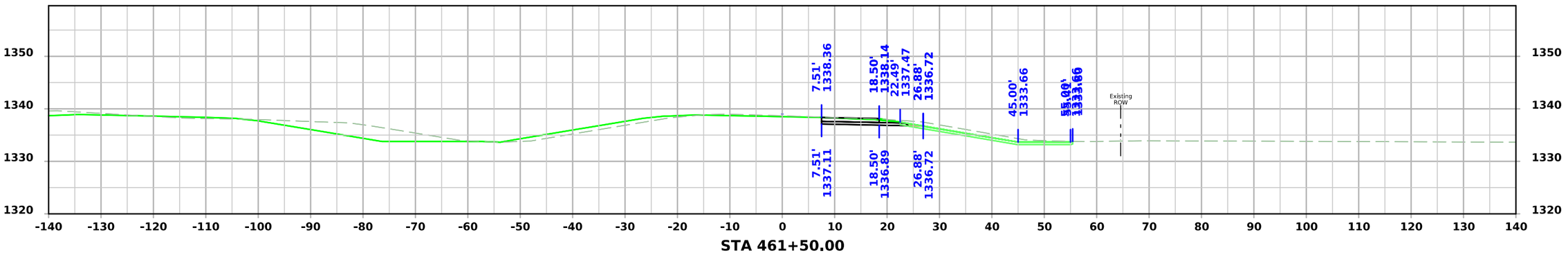


STA 460+25.00

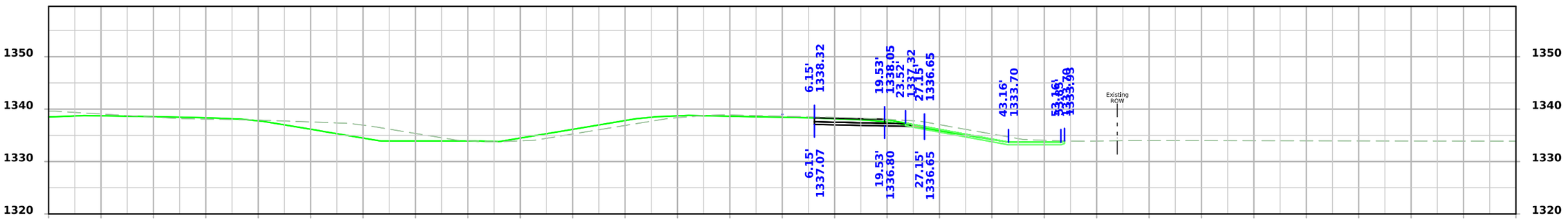
FILE NO.	ENGLISH	DESIGN TEAM Strum/Janus	CLAY COUNTY	PROJECT NUMBER HSIPX-018-2(142)--3H-21	SHEET NUMBER W.86

8:33:31 AM 7/2/2026 ajanus2 pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\2101802023\Design\CADD_Files\Sheet_Files\SHT_21018142_W04.dgn

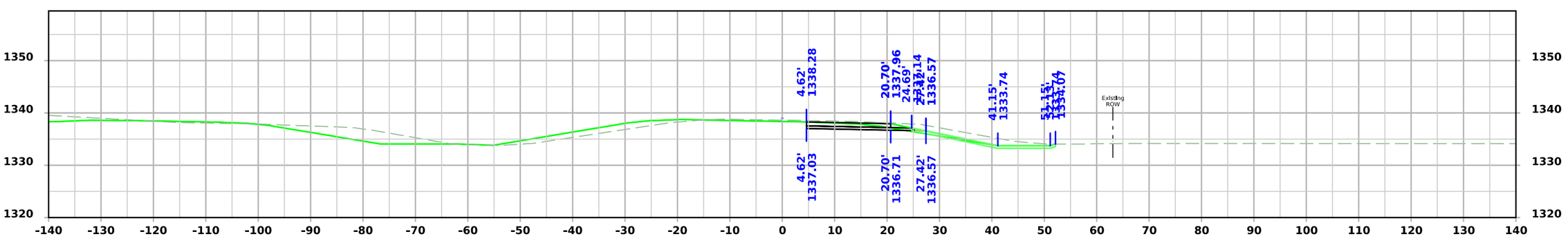
DETOUR US71NB



STA 461+50.00



STA 461+25.00

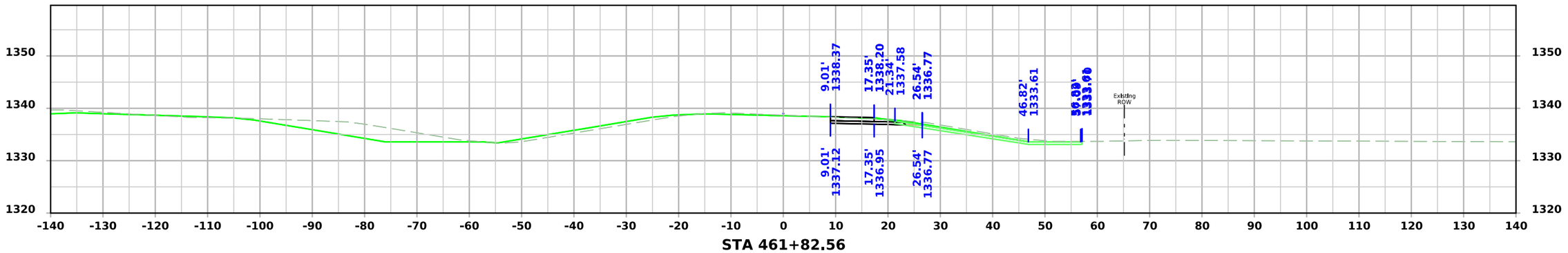


STA 461+00.00

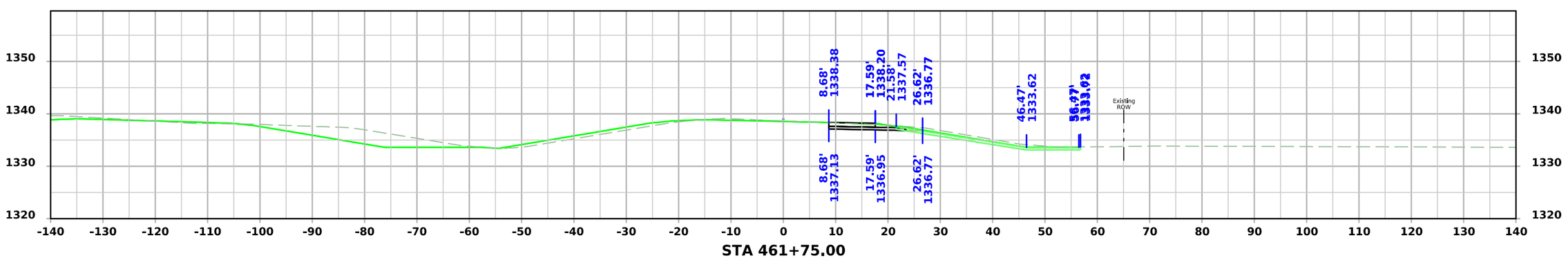
FILE NO.	ENGLISH	DESIGN TEAM Strum/Janus	CLAY COUNTY	PROJECT NUMBER HSIPX-018-2(142)--3H-21	SHEET NUMBER W.87

8:33:31 AM 7/2/2026 ajanus2 pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\2101802023\Design\CADD_Files\Sheet_Files\SHT_21018142_W04.dgn

DETOUR US71NB



STA 461+82.56

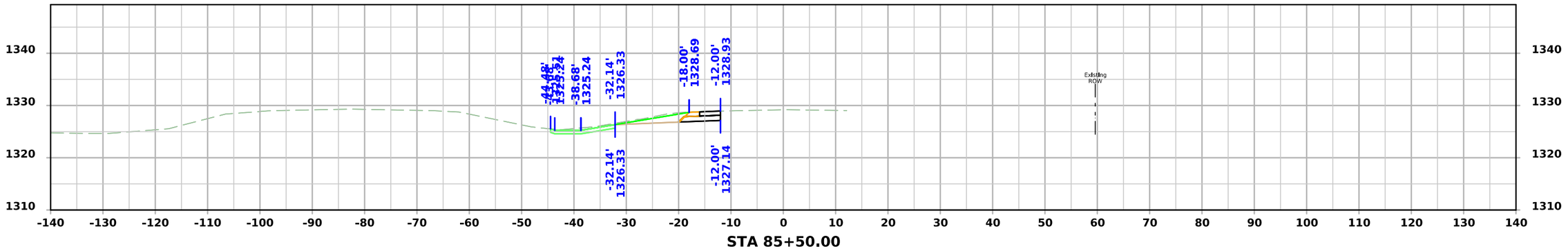


STA 461+75.00

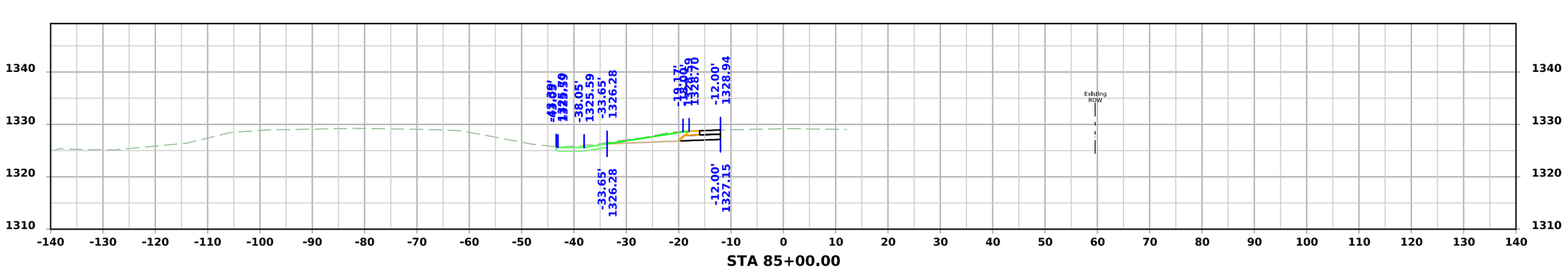
FILE NO.	ENGLISH	DESIGN TEAM Strum/Janus	CLAY COUNTY	PROJECT NUMBER HSIPX-018-2(142)--3H-21	SHEET NUMBER W.88

8:33:31 AM 7/2/2026 ajanus2 pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\2101802023\Design\CADD_Files\Sheet_Files\SHT_21018142_W04.dgn

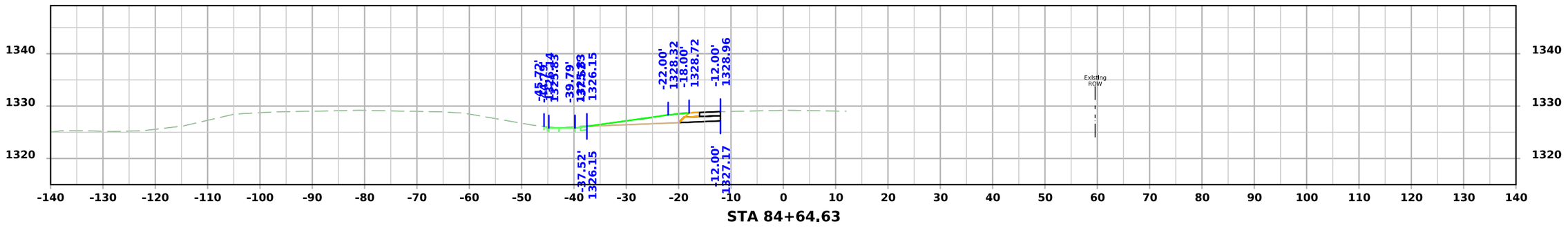
South Crossover Removal



STA 85+50.00



STA 85+00.00

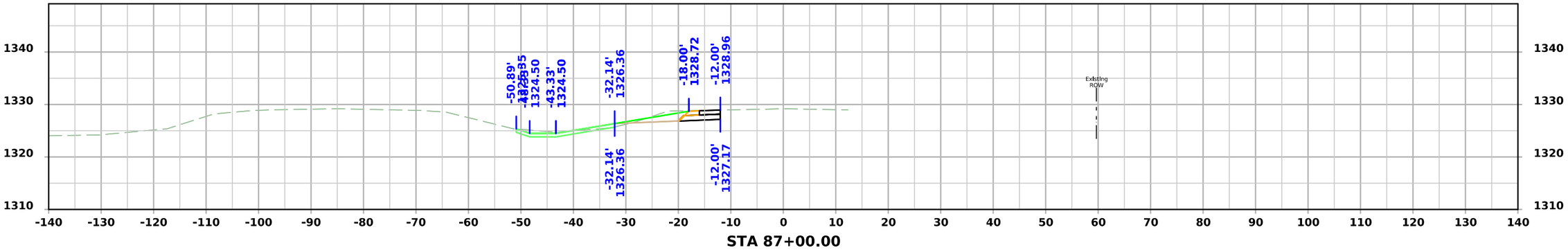


STA 84+64.63

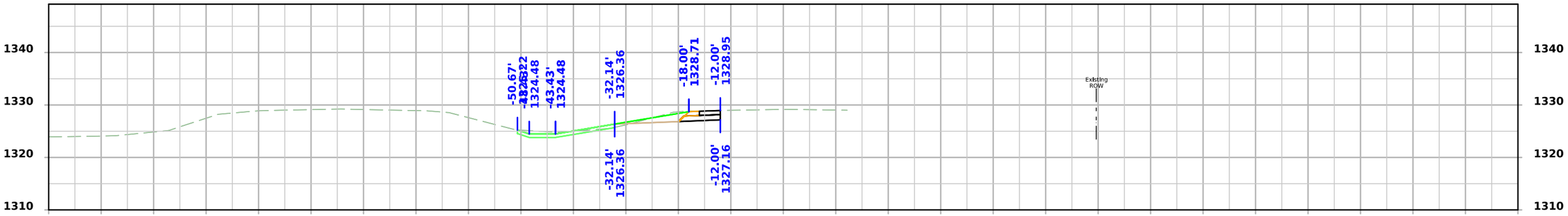
FILE NO.	ENGLISH	DESIGN TEAM Strum/Janus	CLAY COUNTY	PROJECT NUMBER HSIPX-018-2(142)--3H-21	SHEET NUMBER W.89

8:33:38 AM 7/2/2026 ajanus2 pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\2101802023\Design\CADD_Files\Sheet_Files\SHT_21018142_W05.dgn

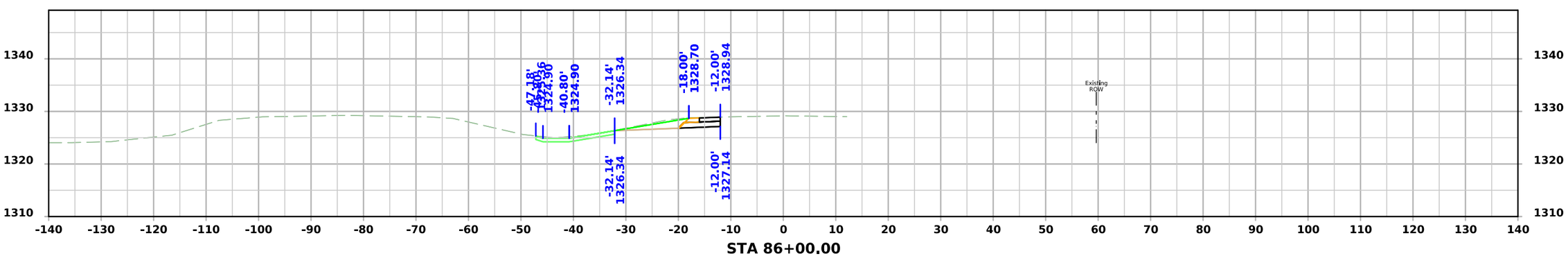
South Crossover Removal



STA 87+00.00



STA 86+50.00

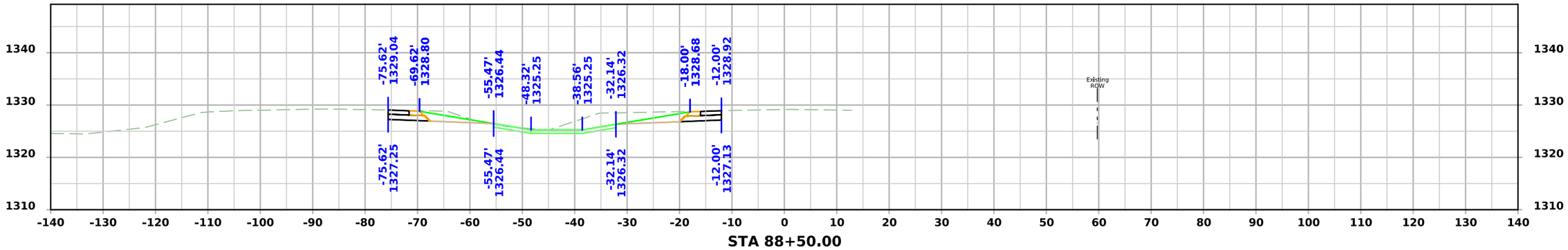


STA 86+00.00

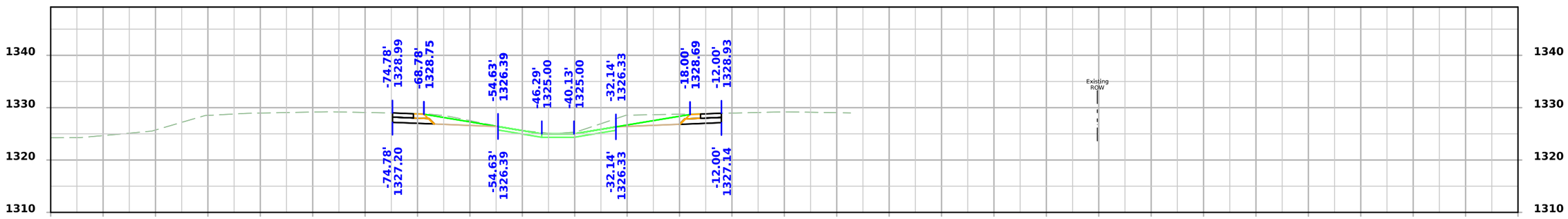
FILE NO.	ENGLISH	DESIGN TEAM Strum/Janus	CLAY COUNTY	PROJECT NUMBER HSIPX-018-2(142)--3H-21	SHEET NUMBER W.90

8:33:39 AM 7/2/2026 ajanus2 pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\2101802023\Design\CADD_Files\Sheet_Files\SHT_21018142_W05.dgn

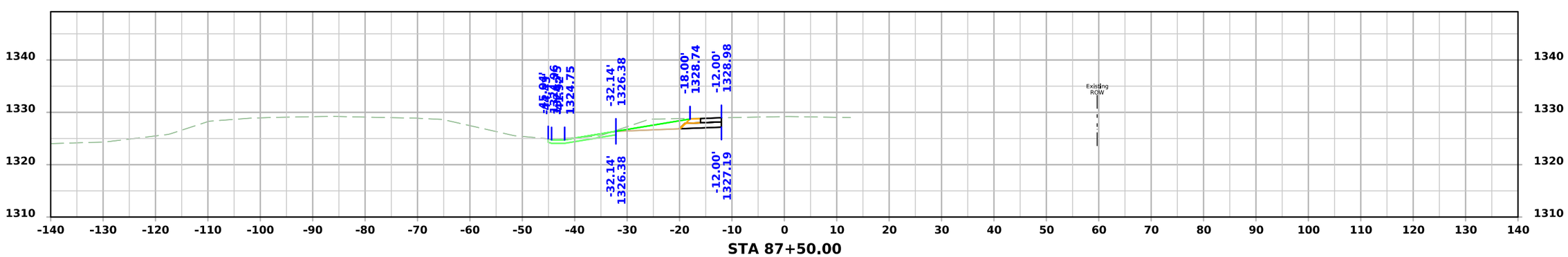
South Crossover Removal



STA 88+50.00



STA 88+00.00

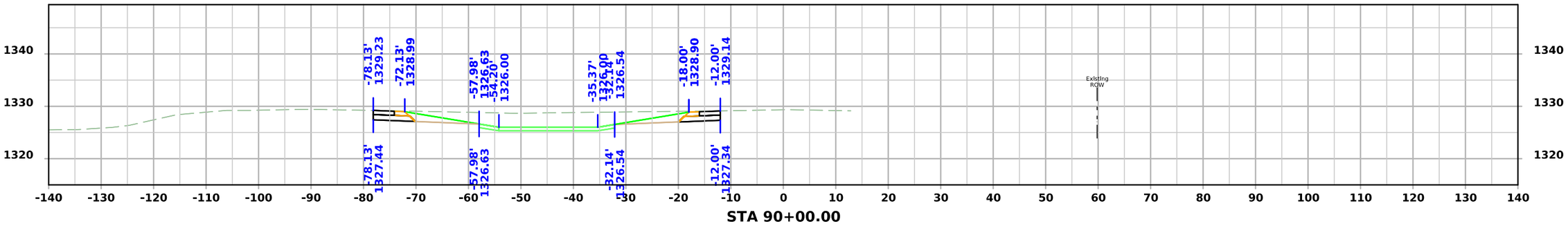


STA 87+50.00

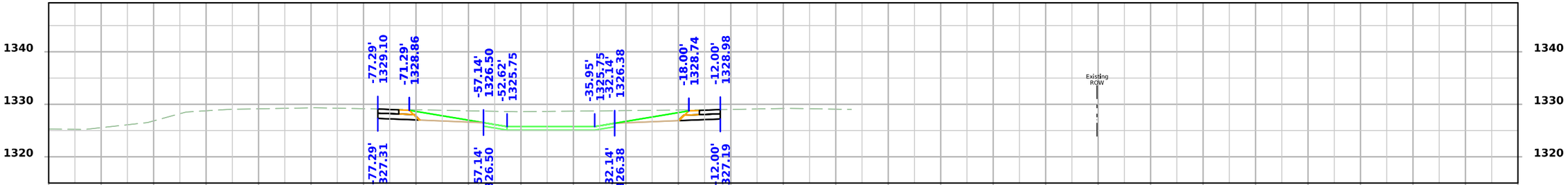
FILE NO.	ENGLISH	DESIGN TEAM Strum/Janus	CLAY COUNTY	PROJECT NUMBER HSIPX-018-2(142)--3H-21	SHEET NUMBER W.91

8:33:40 AM 7/2/2026 ajanus2 pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\2101802023\Design\CADD_Files\Sheet_Files\SHT_21018142_W05.dgn

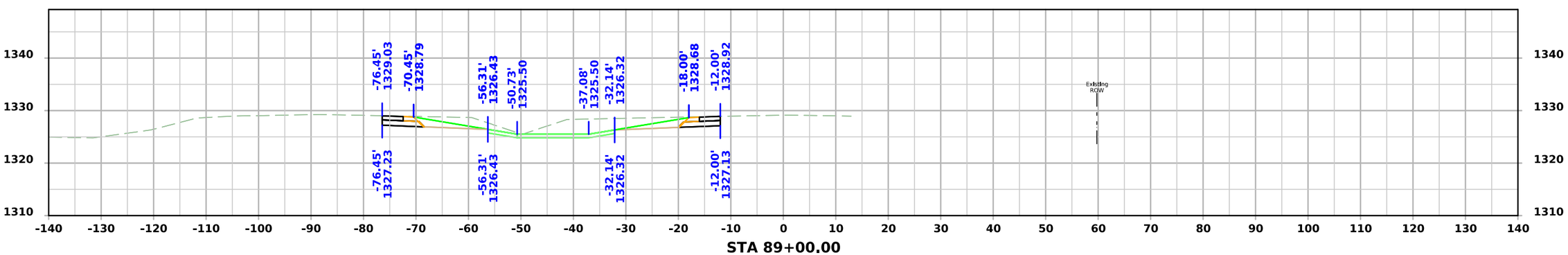
South Crossover Removal



STA 90+00.00



STA 89+50.00

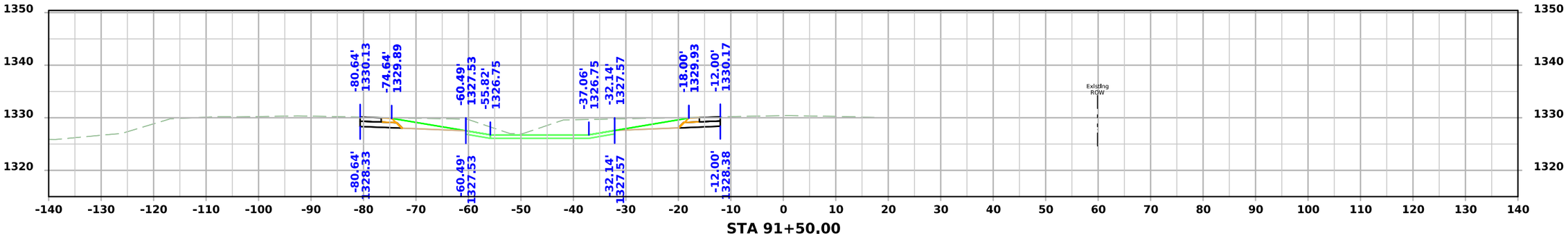


STA 89+00.00

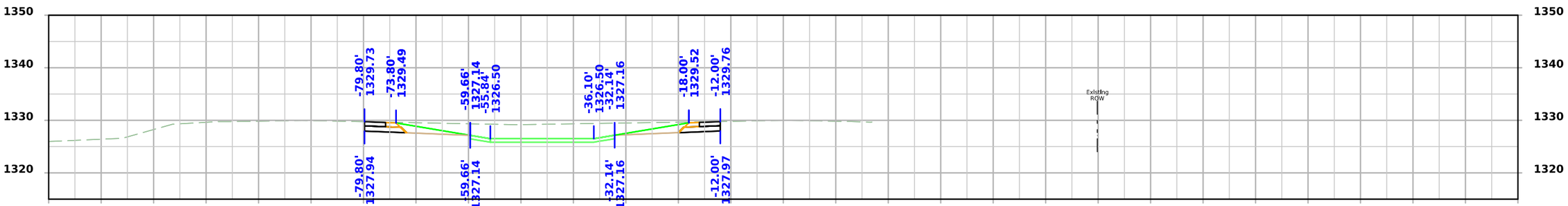
FILE NO.	ENGLISH	DESIGN TEAM Strum/Janus	CLAY COUNTY	PROJECT NUMBER HSIPX-018-2(142)--3H-21	SHEET NUMBER W.92

8:33:41 AM 7/2/2026 ajanus2 pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\2101802023\Design\CADD_Files\Sheet_Files\SHT_21018142_W05.dgn

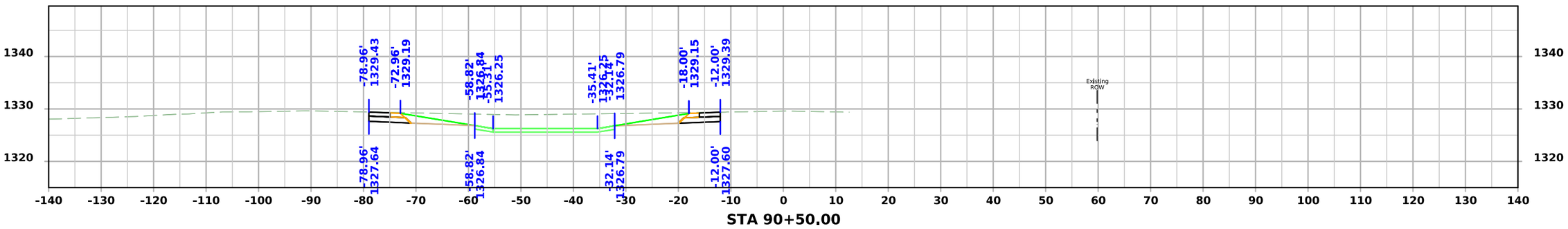
South Crossover Removal



STA 91+50.00



STA 91+00.00

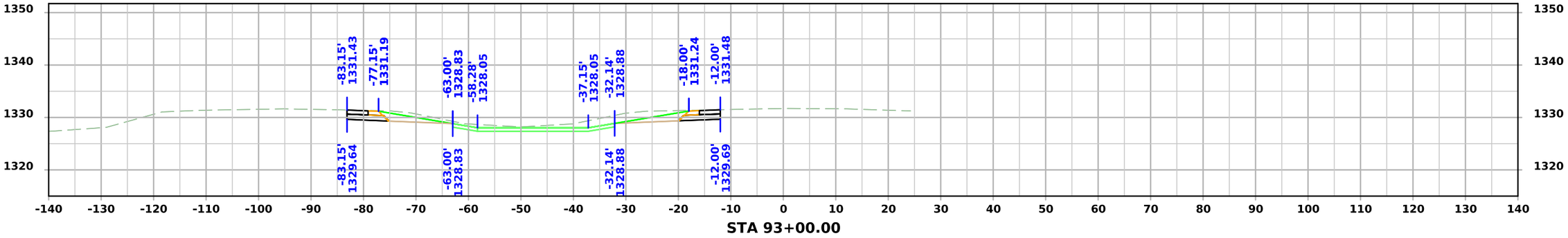


STA 90+50.00

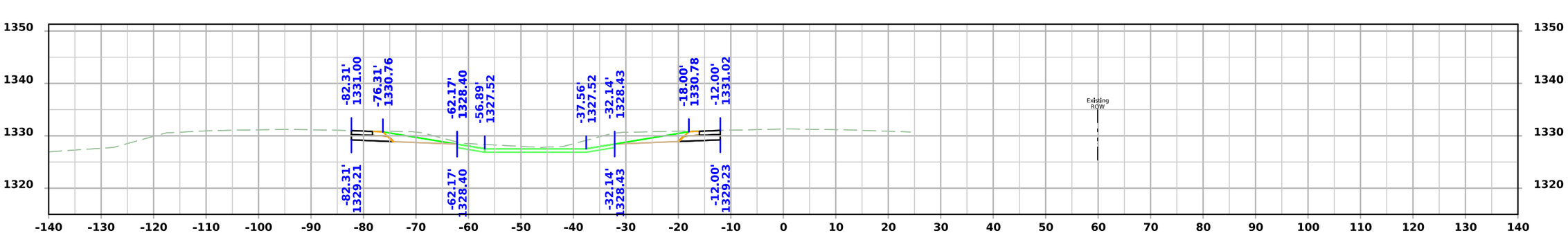
FILE NO.	ENGLISH	DESIGN TEAM Strum/Janus	CLAY COUNTY	PROJECT NUMBER HSIPX-018-2(142)--3H-21	SHEET NUMBER W.93

8:33:42 AM 7/2/2026 ajanus2 pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\2101802023\Design\CADD_Files\Sheet_Files\SHT_21018142_W05.dgn

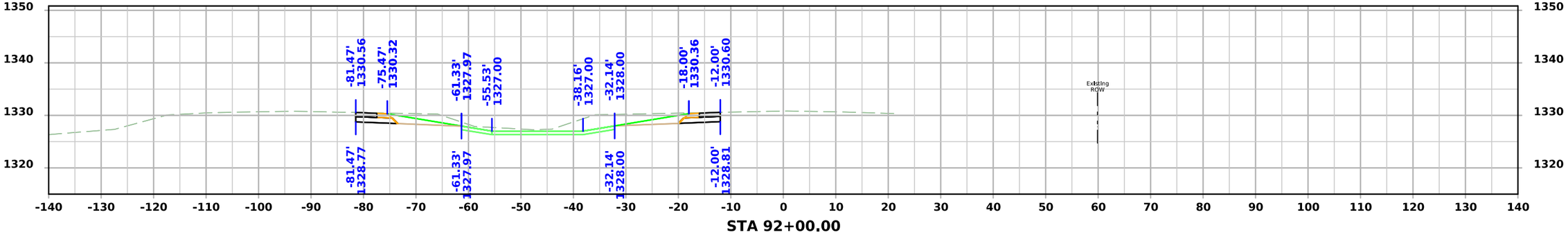
South Crossover Removal



STA 93+00.00



STA 92+50.00

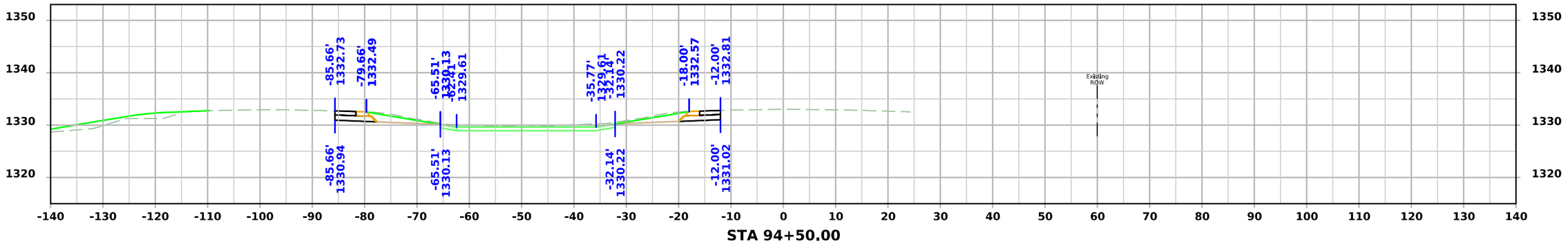


STA 92+00.00

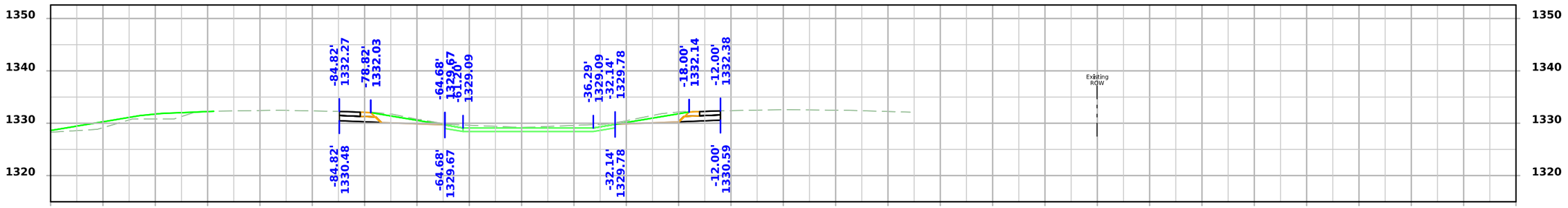
FILE NO.	ENGLISH	DESIGN TEAM Strum/Janus	CLAY COUNTY	PROJECT NUMBER HSIPX-018-2(142)--3H-21	SHEET NUMBER W.94

8:33:43 AM 7/2/2026 ajanus2 pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\2101802023\Design\CADD_Files\Sheet_Files\SHT_21018142_W05.dgn

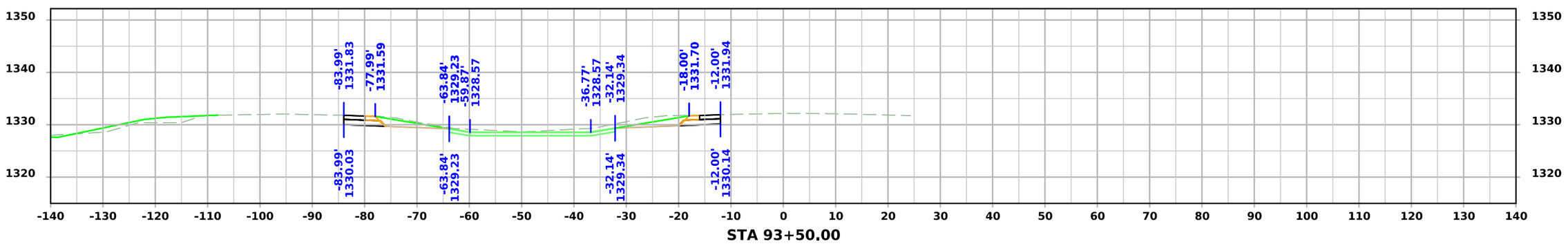
South Crossover Removal



STA 94+50.00



STA 94+00.00

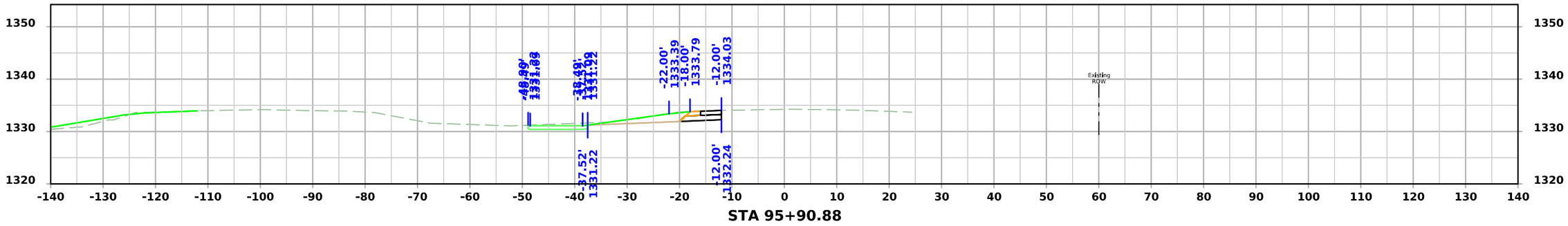


STA 93+50.00

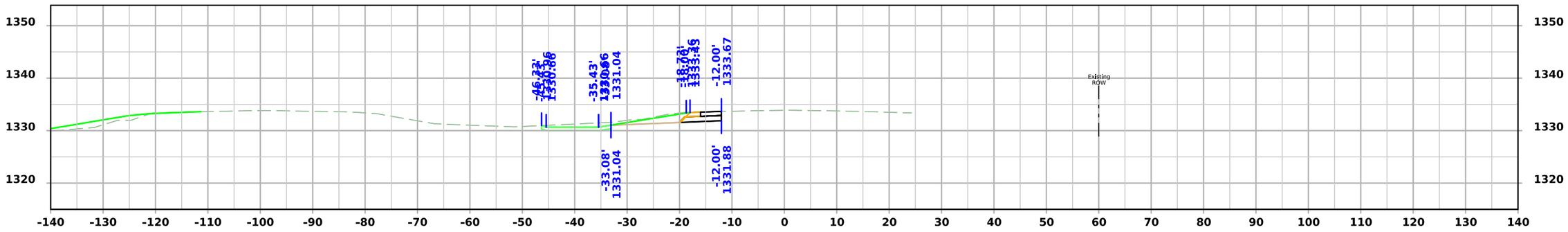
FILE NO.	ENGLISH	DESIGN TEAM Strum/Janus	CLAY COUNTY	PROJECT NUMBER HSIPX-018-2(142)--3H-21	SHEET NUMBER W.95

8:33:44 AM 7/2/2026 ajanus2 pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\2101802023\Design\CADD_Files\Sheet_Files\SHT_21018142_W05.dgn

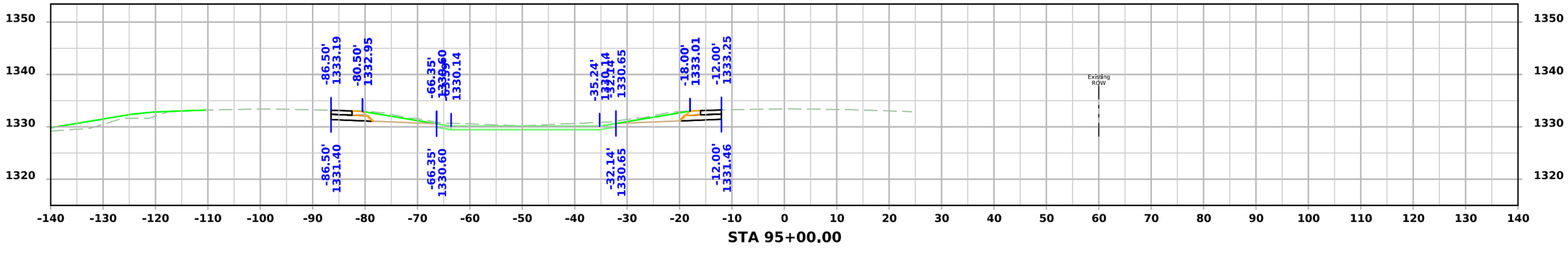
South Crossover Removal



STA 95+90.88



STA 95+50.00

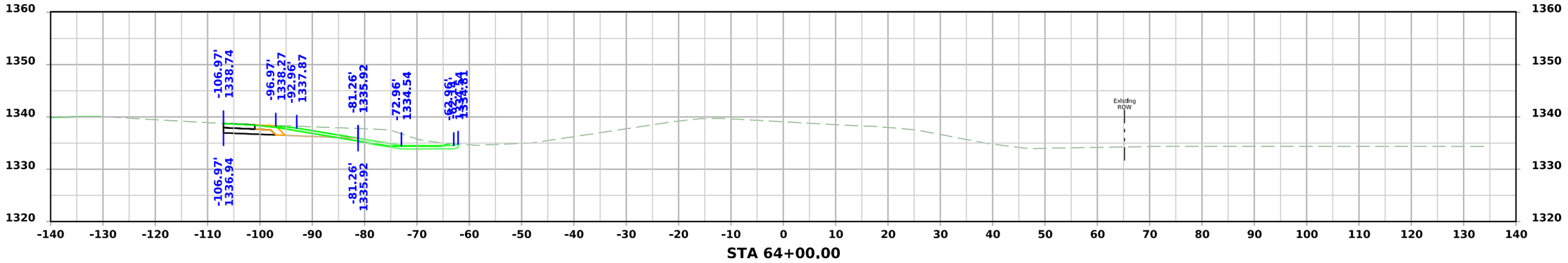


STA 95+00.00

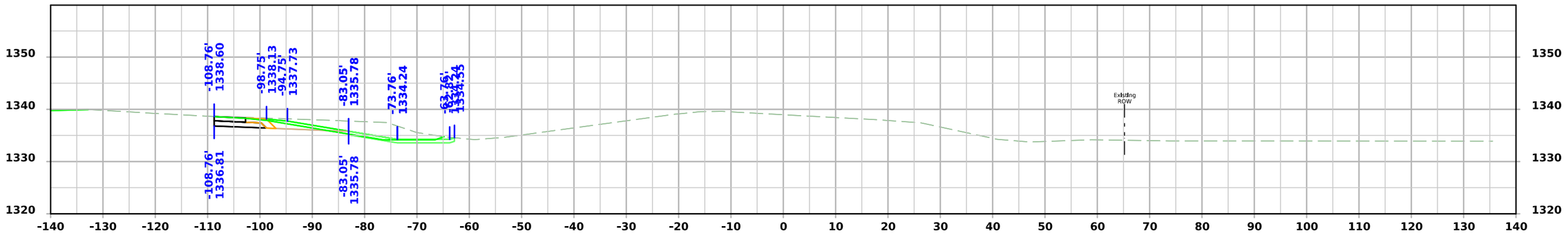
FILE NO.	ENGLISH	DESIGN TEAM Strum/Janus	CLAY COUNTY	PROJECT NUMBER HSIPX-018-2(142)--3H-21	SHEET NUMBER W.96

8:33:45 AM 7/2/2026 ajanus2 pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\2101802023\Design\CADD_Files\Sheet_Files\SHT_21018142_W05.dgn

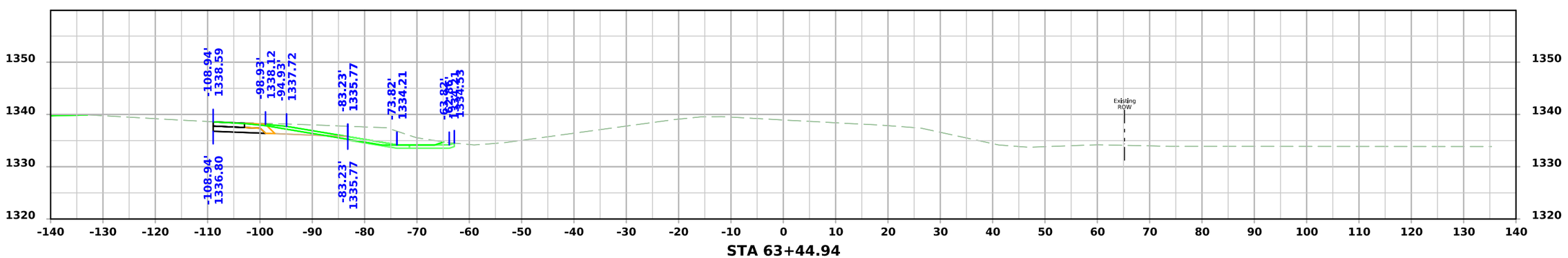
North Crossover removal



STA 64+00.00



STA 63+50.00

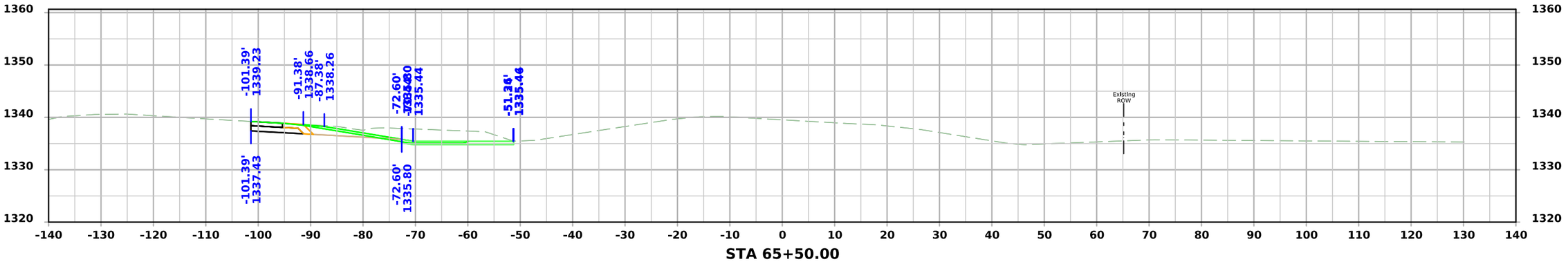


STA 63+44.94

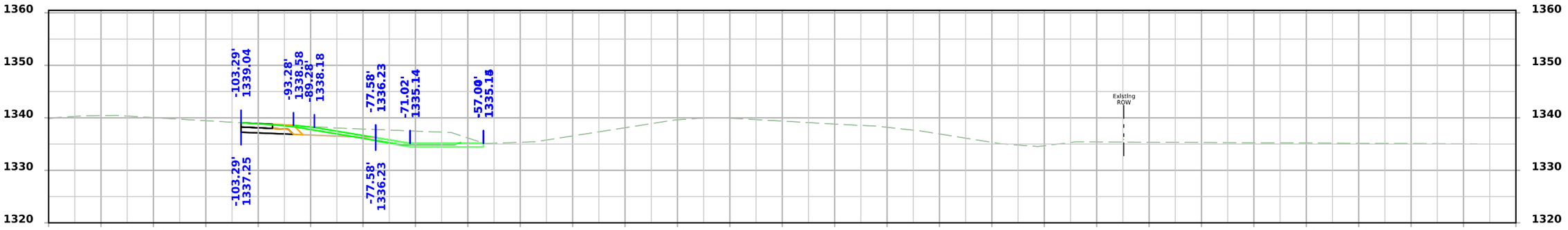
FILE NO.	ENGLISH	DESIGN TEAM Strum/Janus	CLAY COUNTY	PROJECT NUMBER HSIPX-018-2(142)--3H-21	SHEET NUMBER W.97

8:33:46 AM 7/2/2026 ajanus2 pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\2101802023\Design\CADD_Files\Sheet_Files\SHT_21018142_W05.dgn

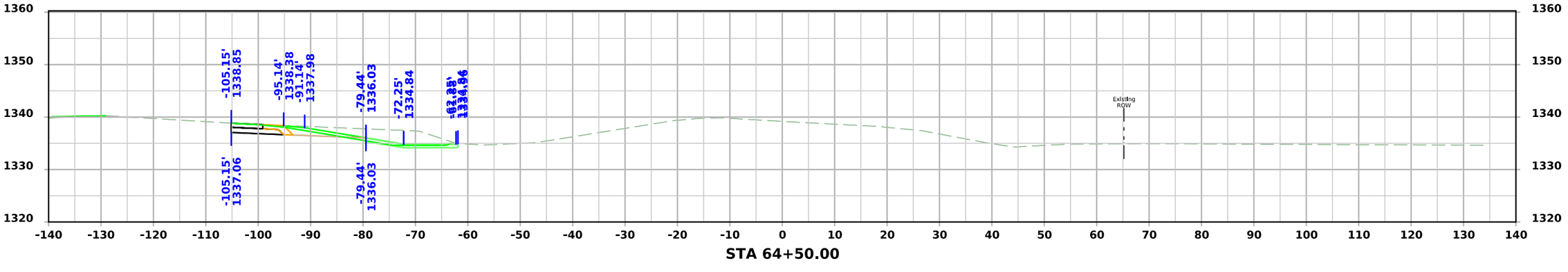
North Crossover removal



STA 65+50.00



STA 65+00.00

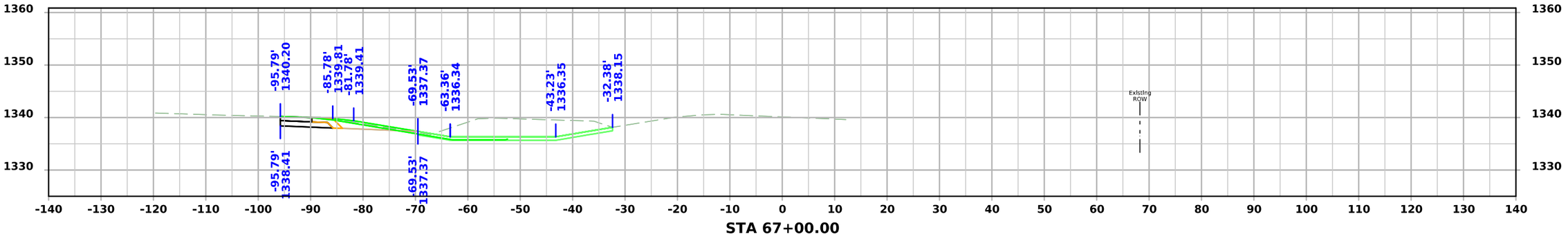


STA 64+50.00

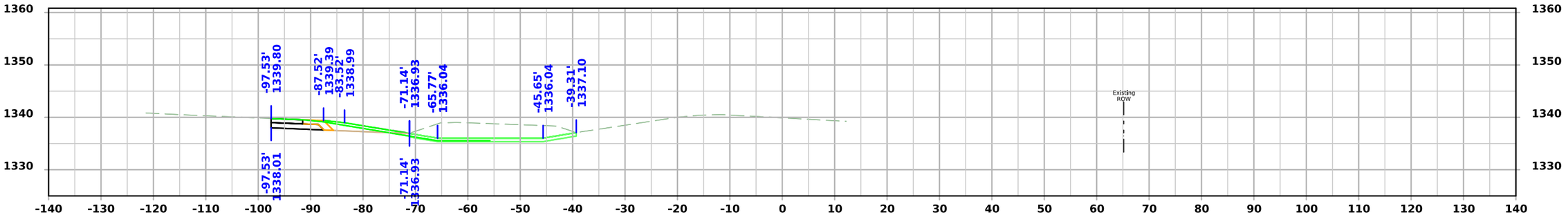
FILE NO.	ENGLISH	DESIGN TEAM Strum/Janus	CLAY COUNTY	PROJECT NUMBER HSIPX-018-2(142)--3H-21	SHEET NUMBER W.98

8:33:47 AM 7/2/2026 ajanus2 pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\2101802023\Design\CADD_Files\Sheet_Files\SHT_21018142_W05.dgn

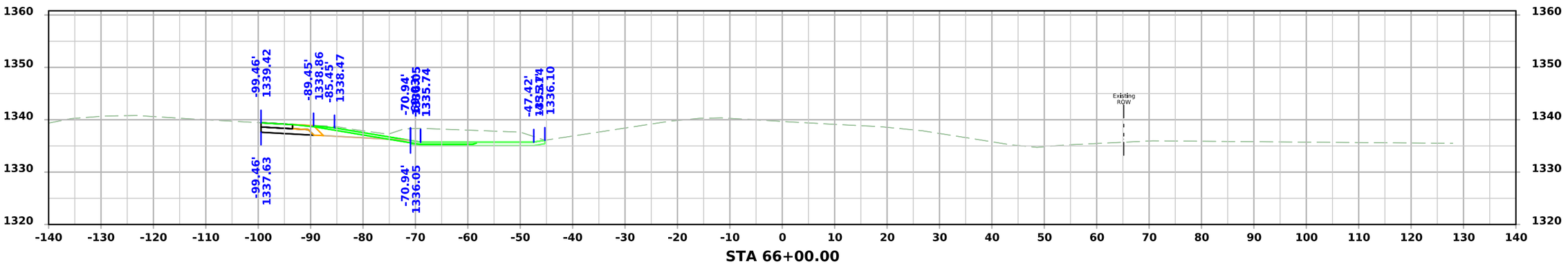
North Crossover removal



STA 67+00.00



STA 66+50.00

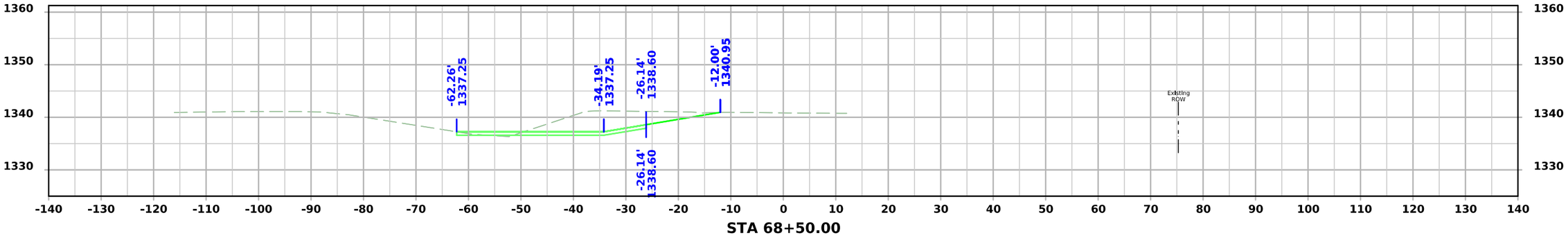


STA 66+00.00

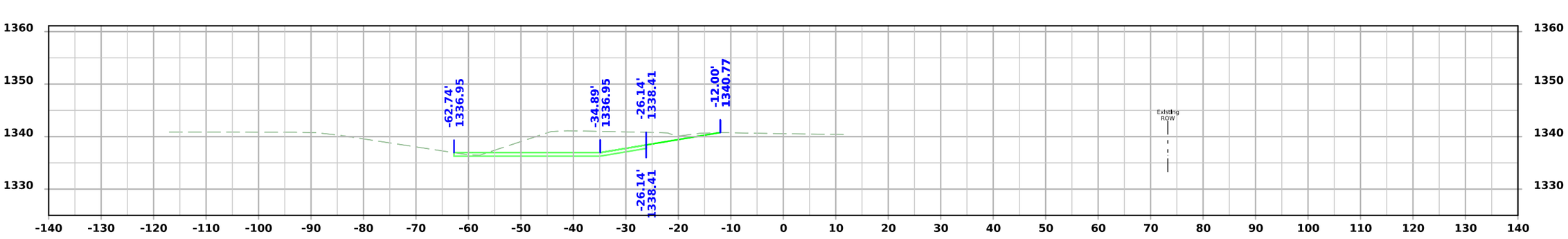
FILE NO.	ENGLISH	DESIGN TEAM Strum/Janus	CLAY COUNTY	PROJECT NUMBER HSIPX-018-2(142)--3H-21	SHEET NUMBER W.99

8:33:48 AM 7/2/2026 ajanus2 pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\2101802023\Design\CADD_Files\Sheet_Files\SHT_21018142_W05.dgn

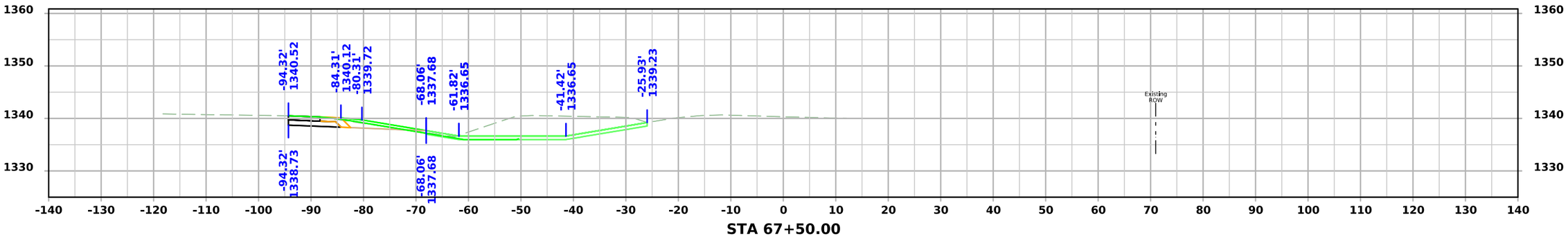
North Crossover removal



STA 68+50.00



STA 68+00.00

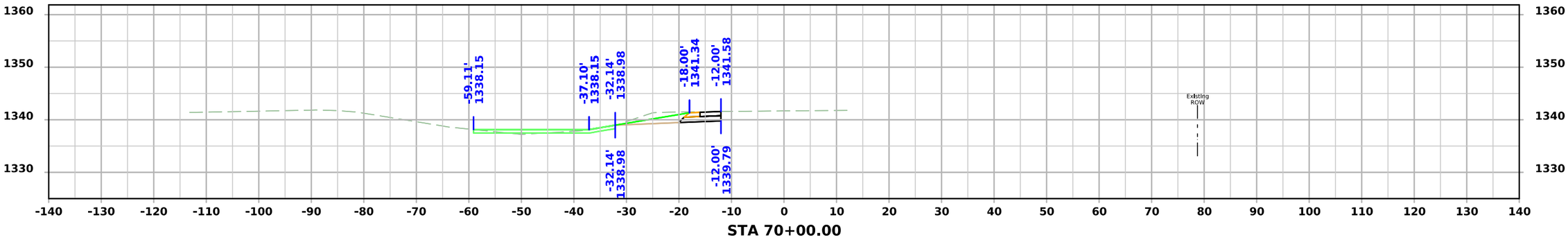


STA 67+50.00

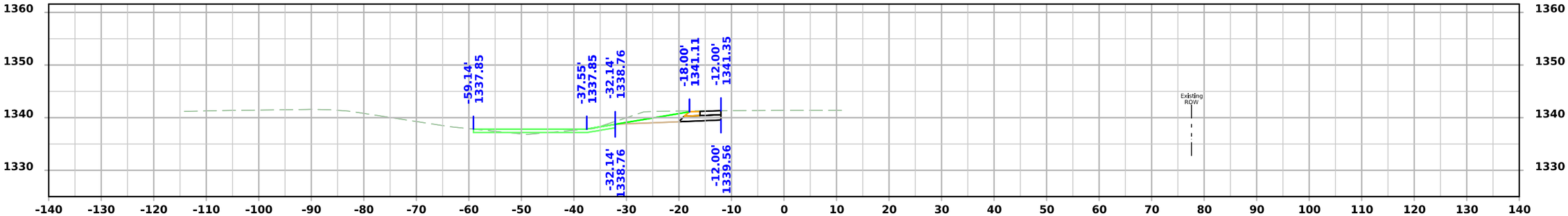
FILE NO.	ENGLISH	DESIGN TEAM Strum/Janus	CLAY COUNTY	PROJECT NUMBER HSIPX-018-2(142)--3H-21	SHEET NUMBER W.100

8:33:49 AM 7/2/2026 ajanus2 pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\2101802023\Design\CADD_Files\Sheet_Files\SHT_21018142_W05.dgn

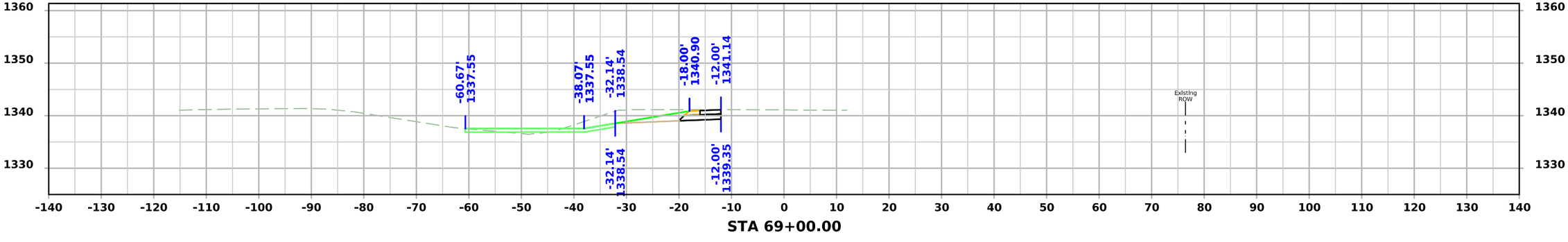
North Crossover removal



STA 70+00.00



STA 69+50.00

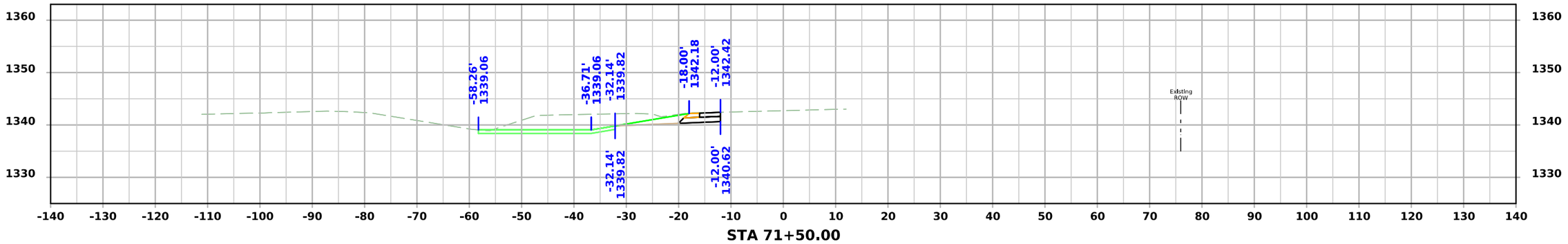


STA 69+00.00

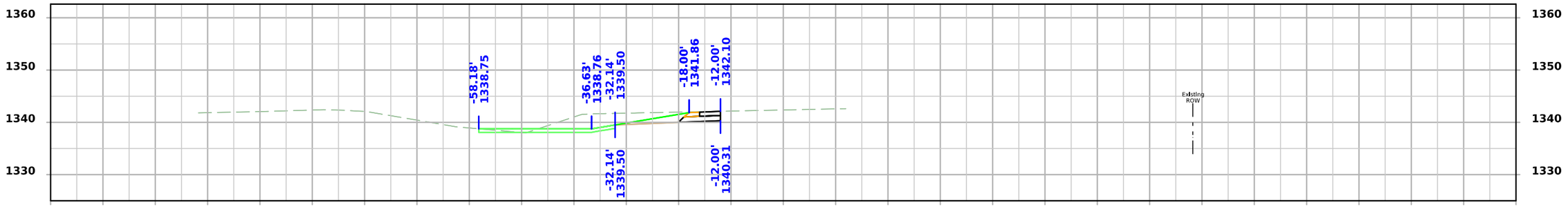
FILE NO.	ENGLISH	DESIGN TEAM Strum/Janus	CLAY COUNTY	PROJECT NUMBER HSIPX-018-2(142)--3H-21	SHEET NUMBER W.101

8:33:50 AM 7/2/2026 ajanus2 pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\2101802023\Design\CADD_Files\Sheet_Files\SHT_21018142_W05.dgn

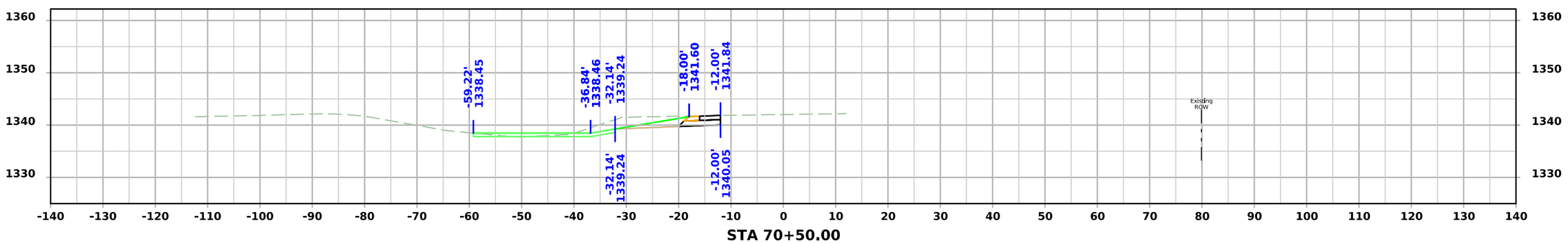
North Crossover removal



STA 71+50.00



STA 71+00.00

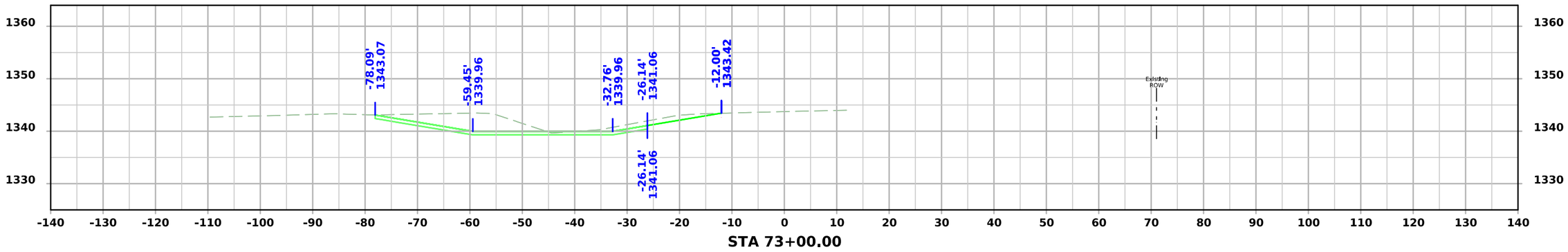


STA 70+50.00

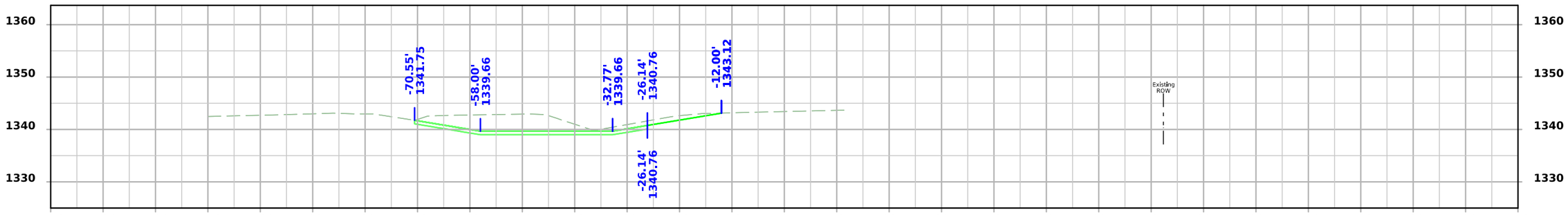
FILE NO.	ENGLISH	DESIGN TEAM Strum/Janus	CLAY COUNTY	PROJECT NUMBER HSIPX-018-2(142)--3H-21	SHEET NUMBER W.102

8:33:51 AM 7/2/2026 ajanus2 pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\2101802023\Design\CADD_Files\Sheet_Files\SHT_21018142_W05.dgn

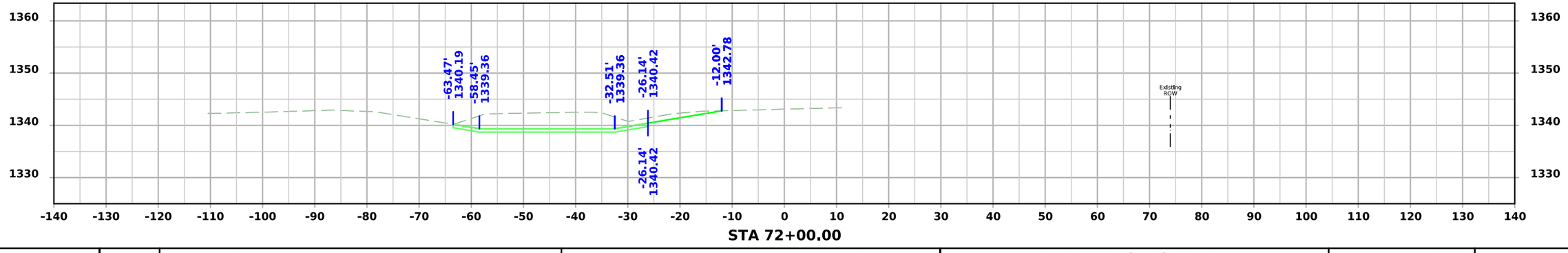
North Crossover removal



STA 73+00.00



STA 72+50.00

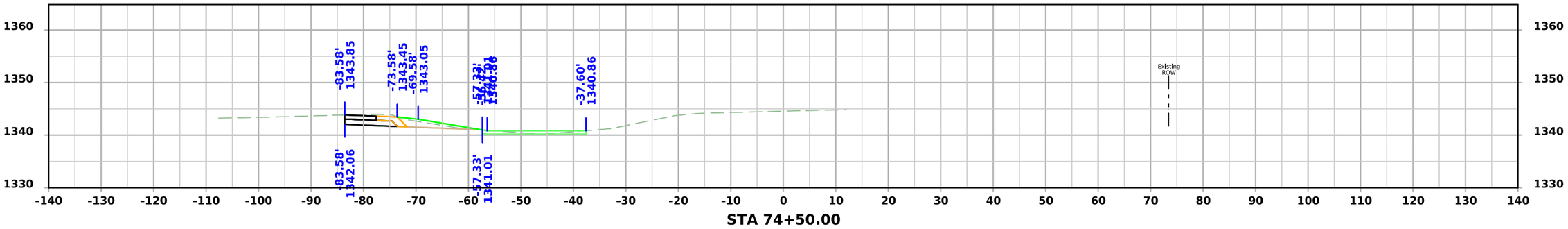


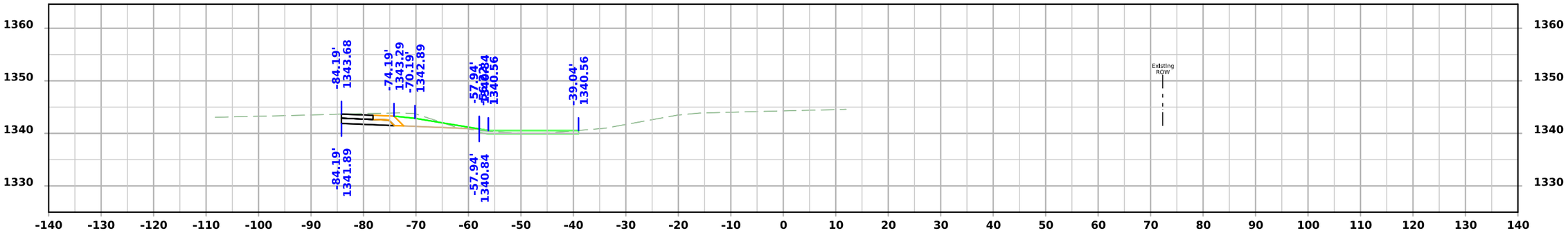
STA 72+00.00

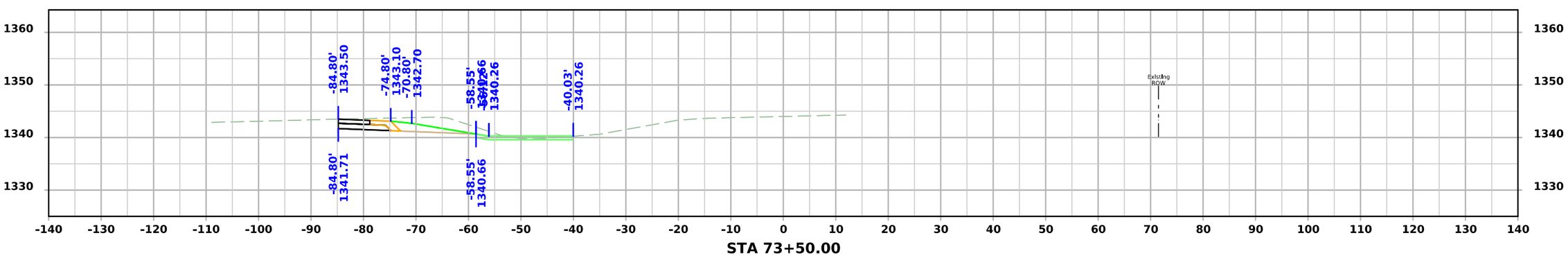
FILE NO.	ENGLISH	DESIGN TEAM Strum/Janus	CLAY COUNTY	PROJECT NUMBER HSIPX-018-2(142)--3H-21	SHEET NUMBER W.103	

8:33:52 AM 7/2/2026 ajanus2 pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\2101802023\Design\CADD_Files\Sheet_Files\SHT_21018142_W05.dgn

North Crossover removal



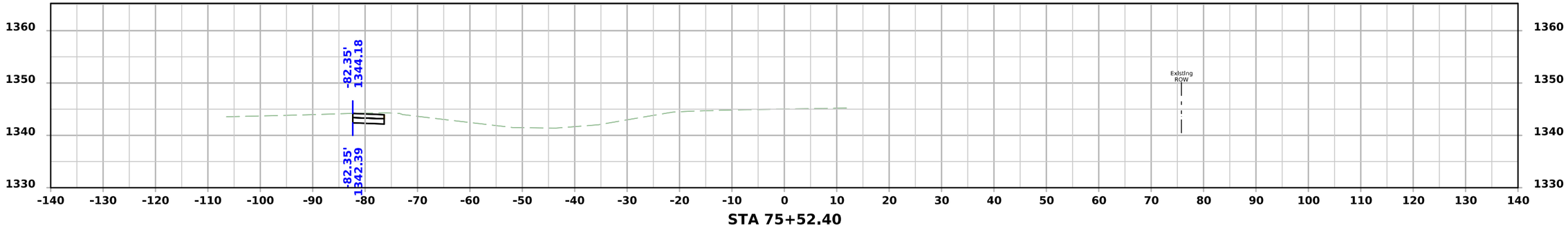




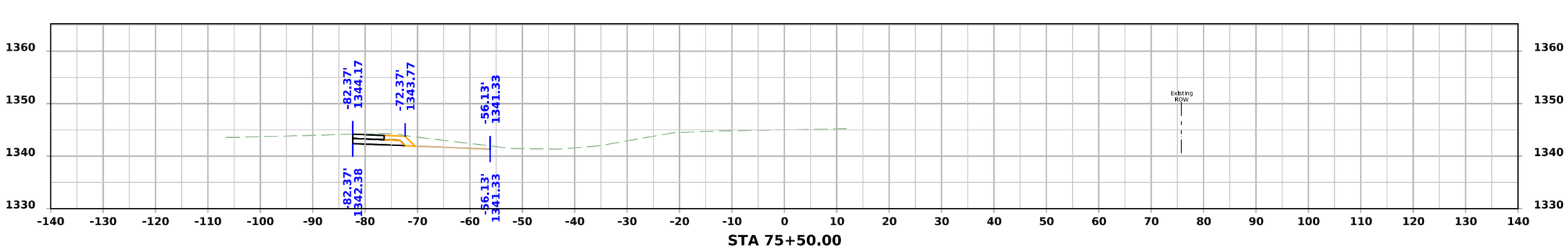
FILE NO.	ENGLISH	DESIGN TEAM Strum/Janus	CLAY COUNTY	PROJECT NUMBER HSIPX-018-2(142)--3H-21	SHEET NUMBER W.104

8:33:52 AM 7/2/2026 ajanus2 pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\2101802023\Design\CADD_Files\Sheet_Files\SHT_21018142_W05.dgn

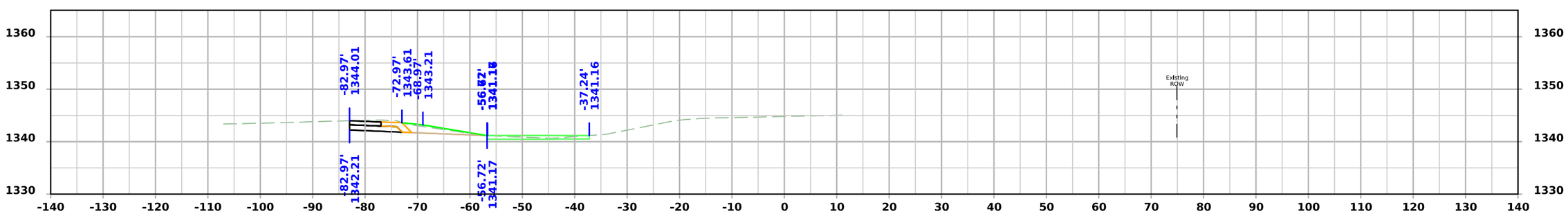
North Crossover removal



STA 75+52.40



STA 75+50.00

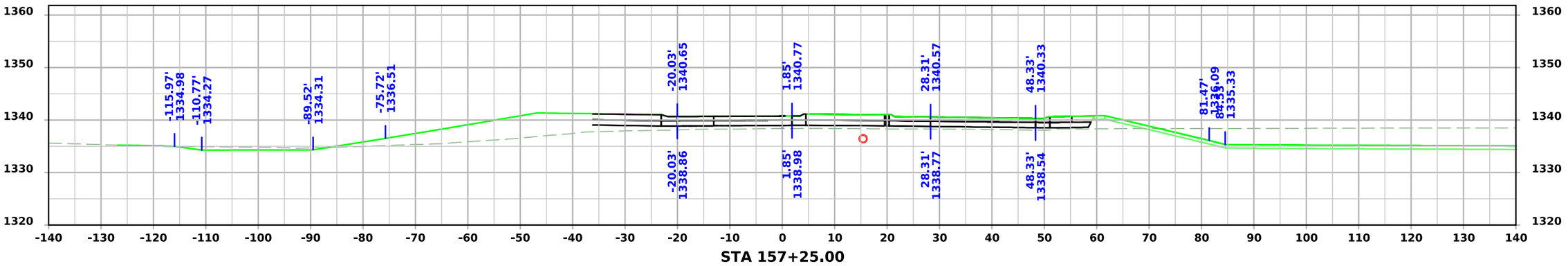


STA 75+00.00

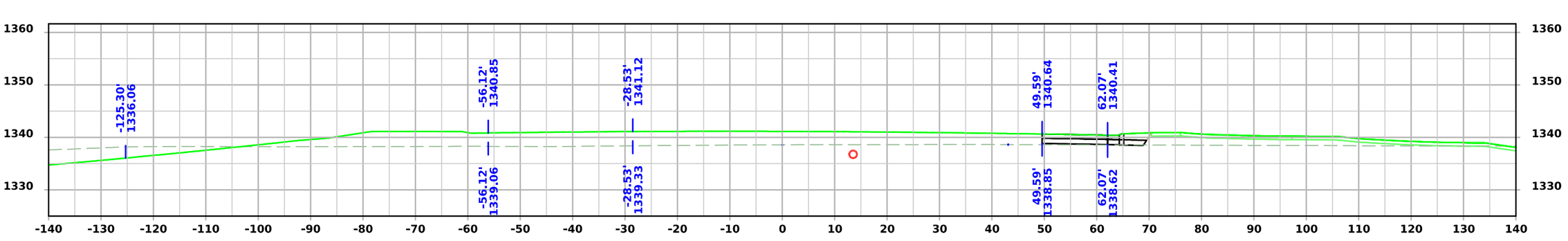
FILE NO.	ENGLISH	DESIGN TEAM Strum/Janus	CLAY COUNTY	PROJECT NUMBER HSIPX-018-2(142)--3H-21	SHEET NUMBER W.105

8:33:53 AM 7/2/2026 ajanus2 pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\2101802023\Design\CADD_Files\Sheet_Files\SHT_21018142_W05.dgn

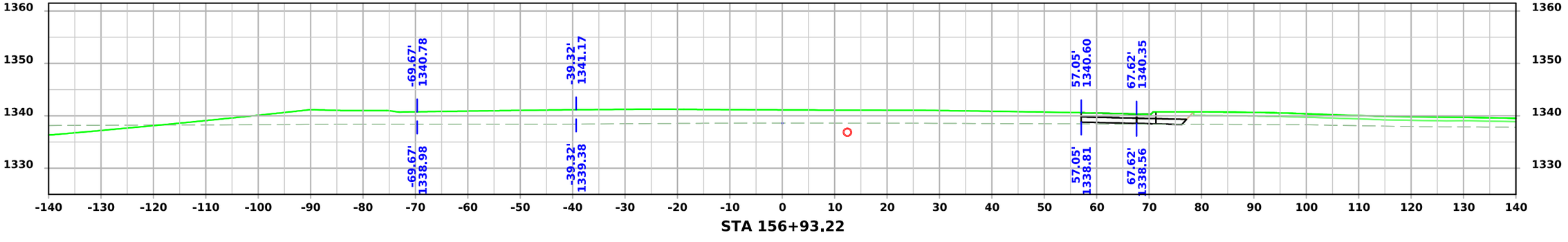
320th St



STA 157+25.00



STA 157+00.00

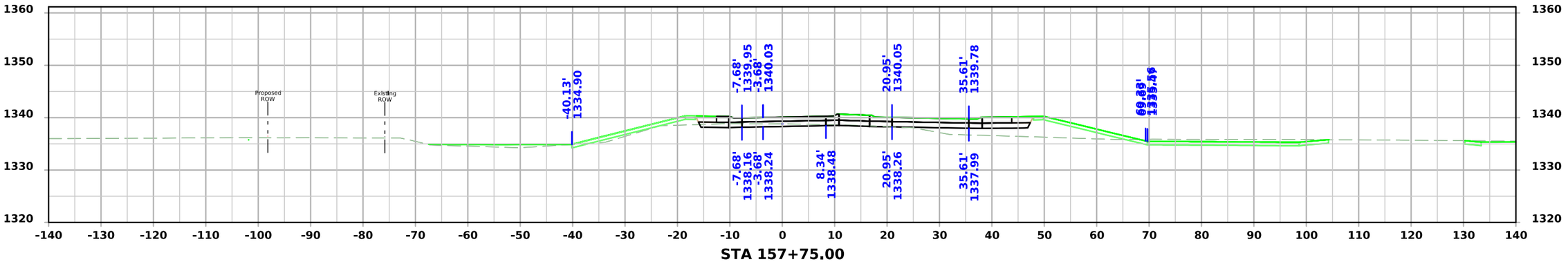


STA 156+93.22

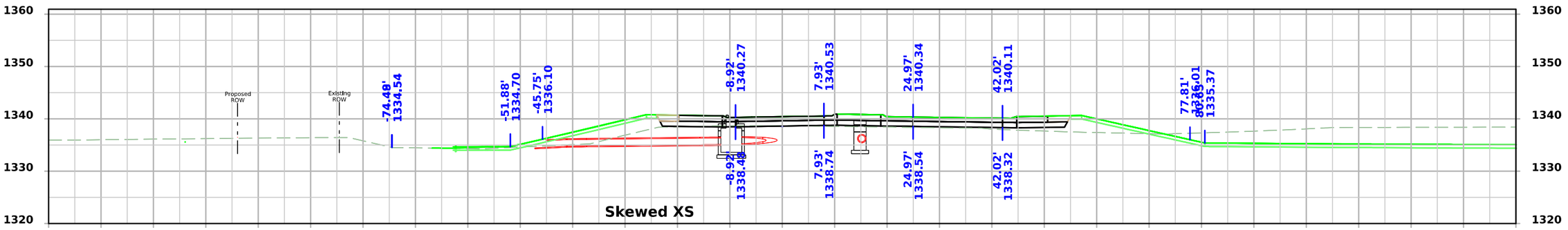
FILE NO.	ENGLISH	DESIGN TEAM **Strum/Janus**	**CLAY** COUNTY	PROJECT NUMBER **HSIPX-018-2(142)--3H-21**	SHEET NUMBER **X.1**

8:39:05 AM 7/2/2026 ajanus2 pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\2101802023\Design\CADD_Files\Sheet_Files\SHT_21018142_X01.dgn

320th St

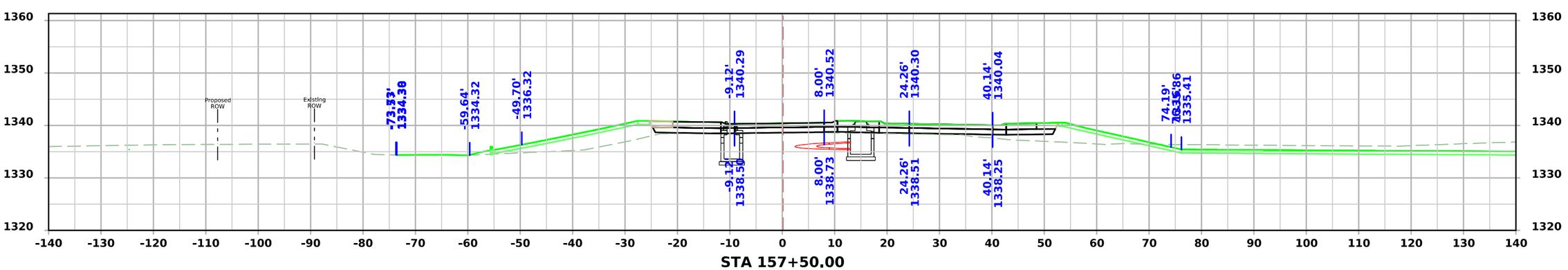


STA 157+75.00



Skewed XS

STA 157+50.02

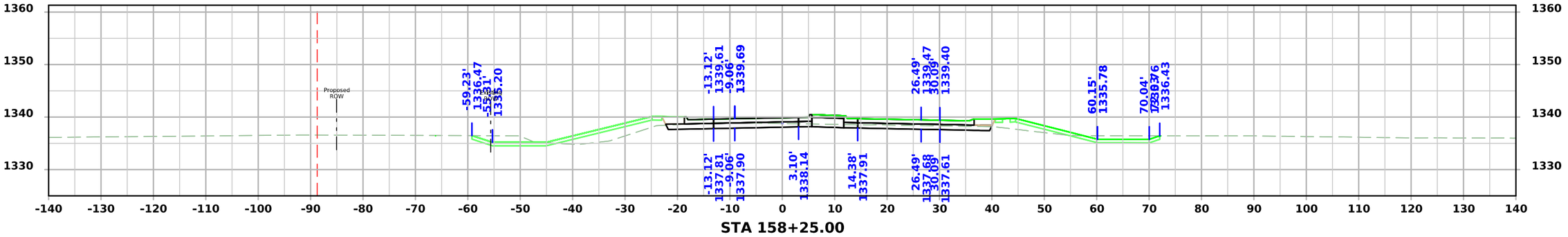


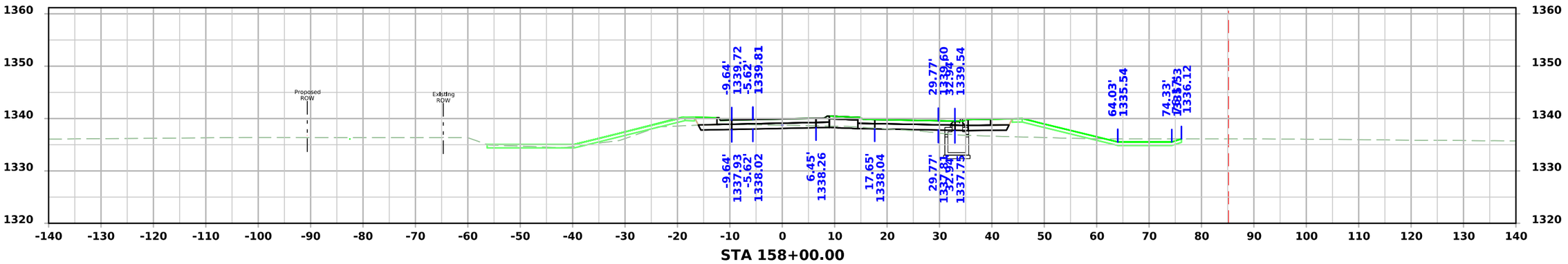
STA 157+50.00

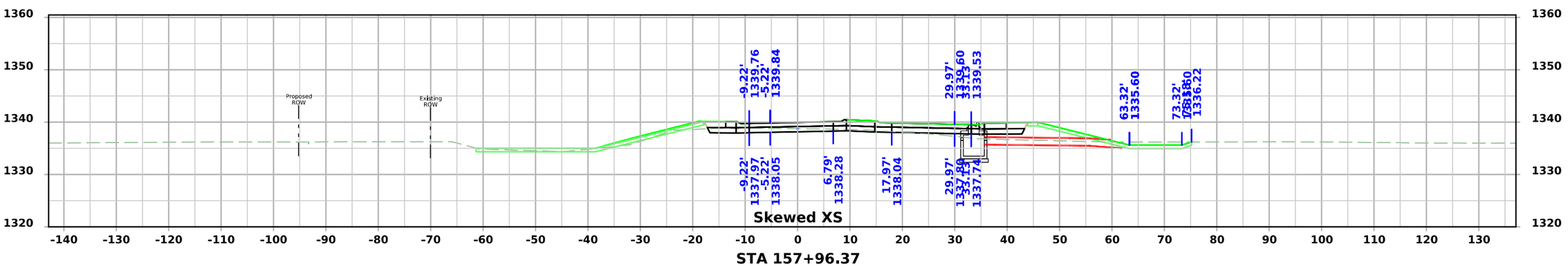
FILE NO.	ENGLISH	DESIGN TEAM Strum/Janus	CLAY COUNTY	PROJECT NUMBER HSIPX-018-2(142)--3H-21	SHEET NUMBER X.2

9:57:18 AM 8/4/2026 ajanus2 pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\2101802023\Design\CADD_Files\Sheet_Files\SHT_21018142_X01.dgn

320th St



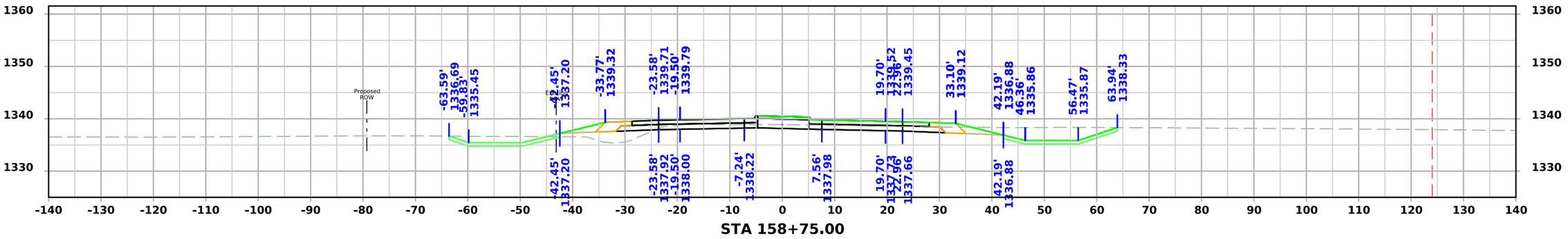


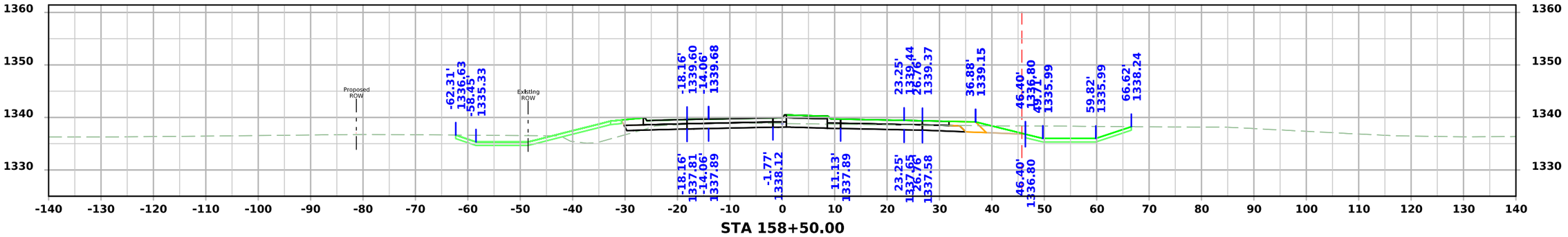


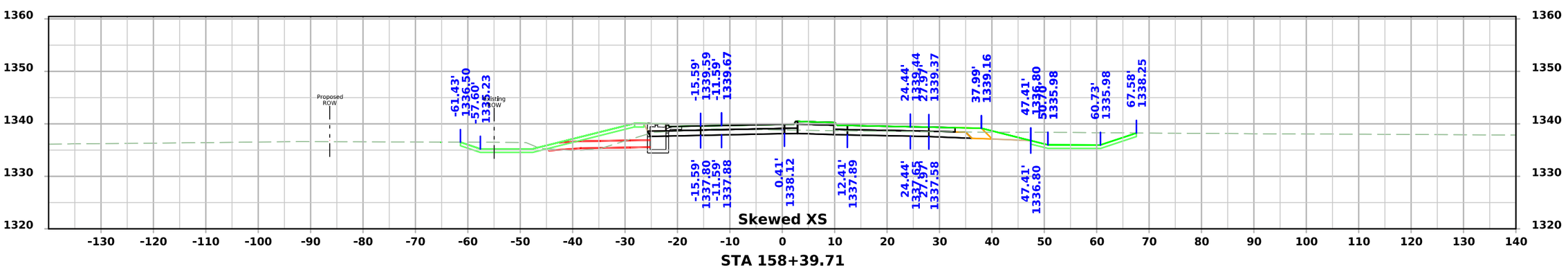
FILE NO.	ENGLISH	DESIGN TEAM Strum/Janus	CLAY COUNTY	PROJECT NUMBER HSIPX-018-2(142)--3H-21	SHEET NUMBER X.3

8:39:08 AM 7/2/2026 ajanus2 pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\2101802023\Design\CADD_Files\Sheet_Files\SHT_21018142_X01.dgn

320th St



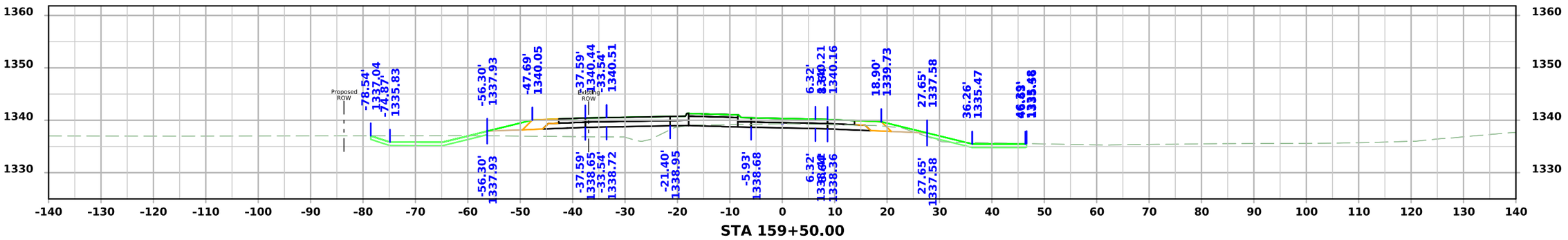


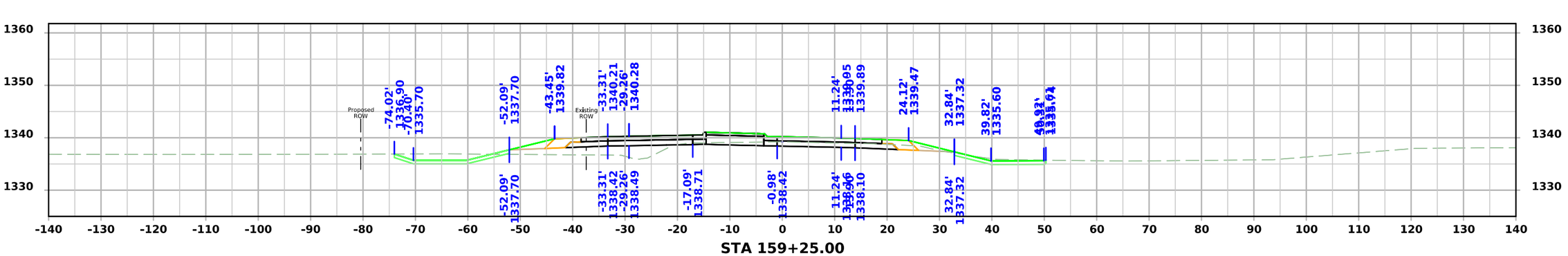


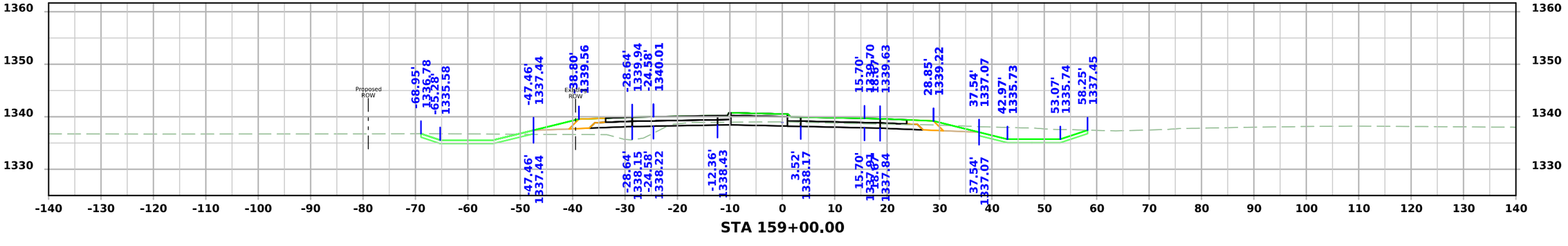
FILE NO.	ENGLISH	DESIGN TEAM Strum/Janus	CLAY COUNTY	PROJECT NUMBER HSIPX-018-2(142)--3H-21	SHEET NUMBER X.4

8:39:09 AM 7/2/2026 ajanus2 pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\2101802023\Design\CADD_Files\Sheet_Files\SHT_21018142_X01.dgn

320th St



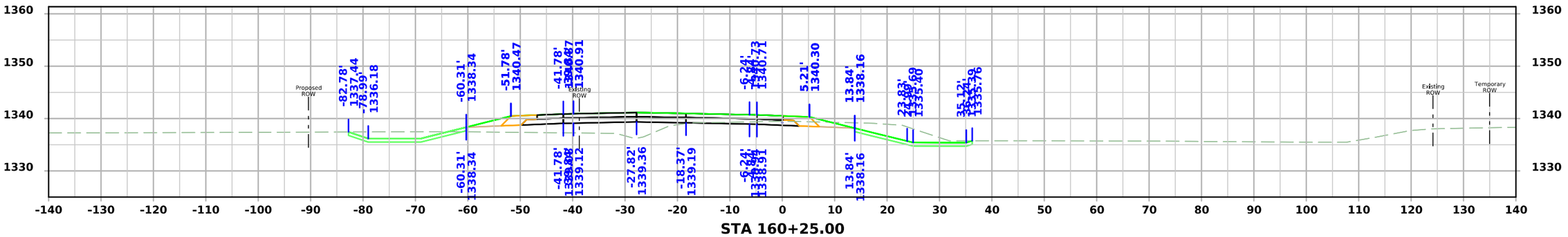




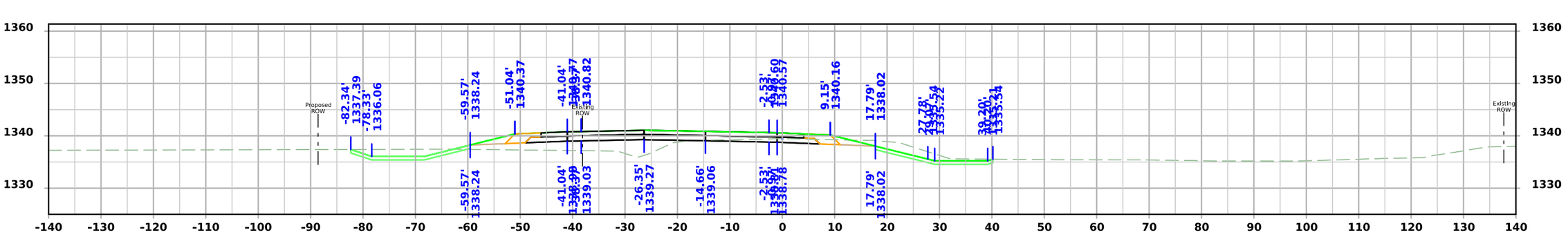
FILE NO.	ENGLISH	DESIGN TEAM **Strum/Janus**	**CLAY** COUNTY	PROJECT NUMBER **HSIPX-018-2(142)--3H-21**	SHEET NUMBER **X.2**

8:39:10 AM 7/2/2026 ajanus2 pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\2101802023\Design\CADD_Files\Sheet_Files\SHT_21018142_X01.dgn

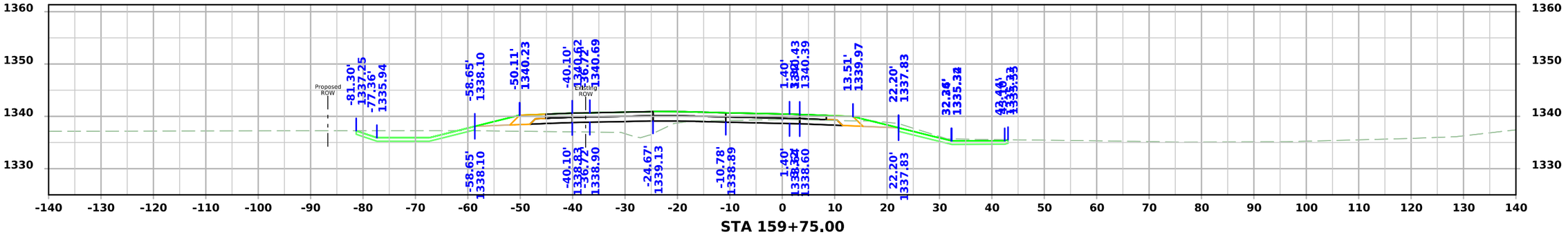
320th St



STA 160+25.00



STA 160+00.00

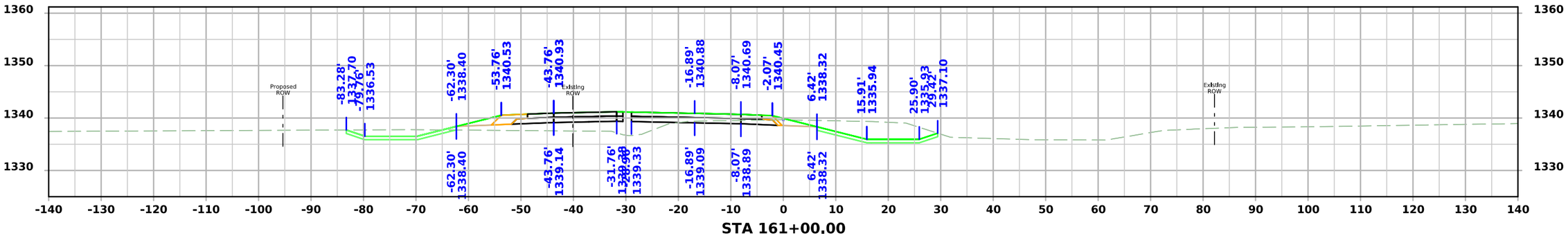


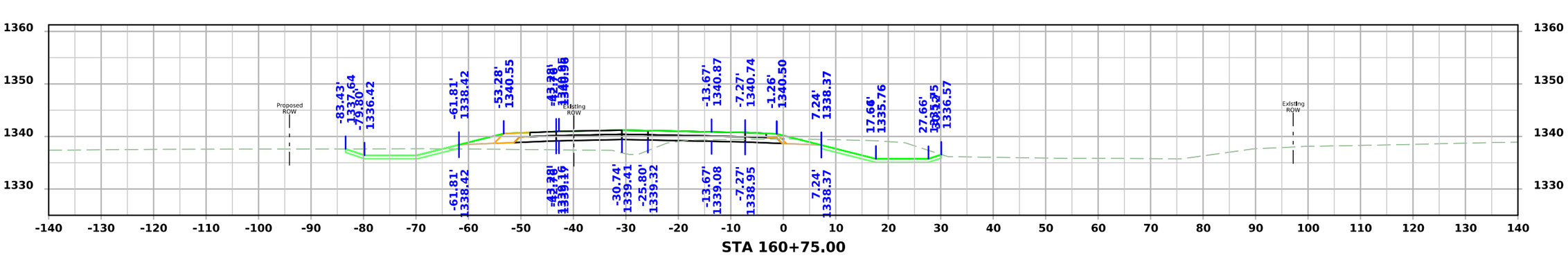
STA 159+75.00

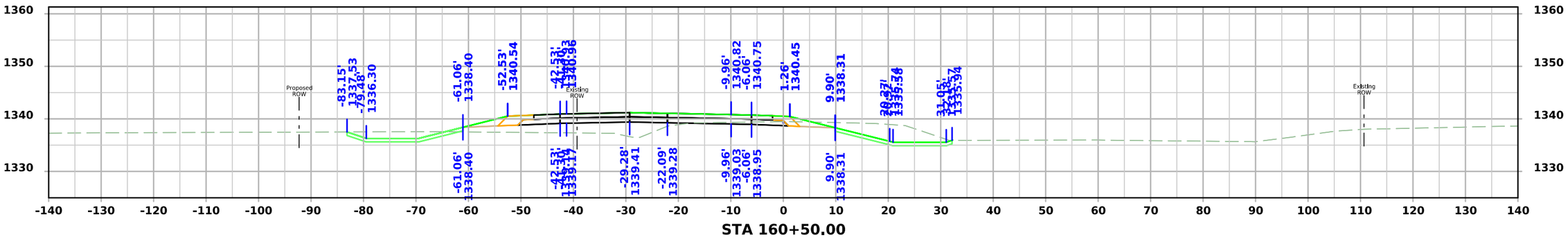
FILE NO.	ENGLISH	DESIGN TEAM **Strum/Janus**	**CLAY** COUNTY	PROJECT NUMBER **HSIPX-018-2(142)--3H-21**	SHEET NUMBER **X.3**

8:39:11 AM 7/2/2026 ajanus2 pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\2101802023\Design\CADD_Files\Sheet_Files\SHT_21018142_X01.dgn

320th St



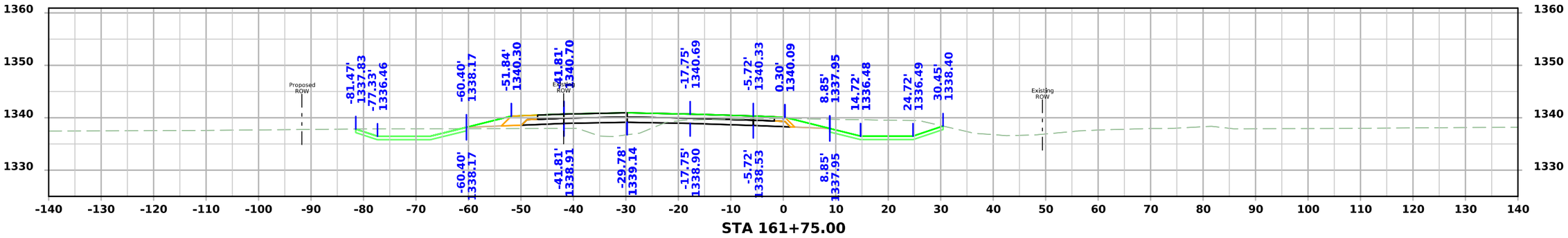




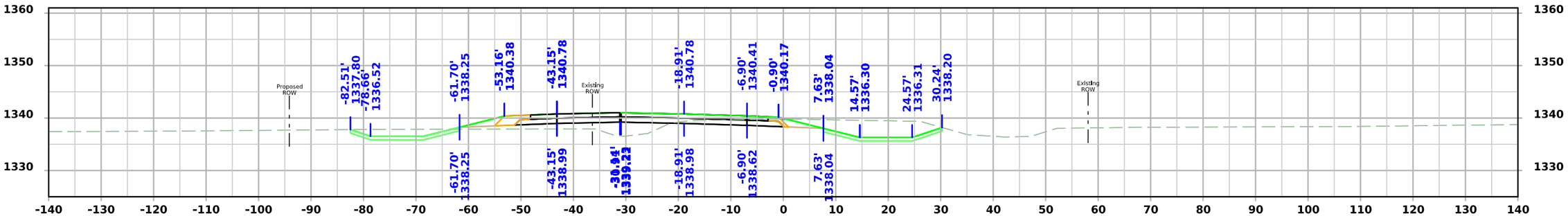
FILE NO.	ENGLISH	DESIGN TEAM **Strum/Janus**	**CLAY** COUNTY	PROJECT NUMBER **HSIPX-018-2(142)--3H-21**	SHEET NUMBER **X.4**

8:39:12 AM 7/2/2026 ajanus2 pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\2101802023\Design\CADD_Files\Sheet_Files\SHT_21018142_X01.dgn

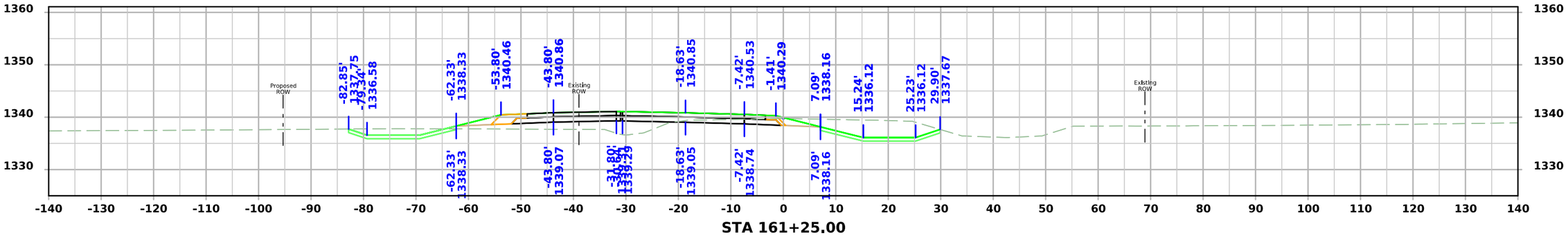
320th St



STA 161+75.00



STA 161+50.00

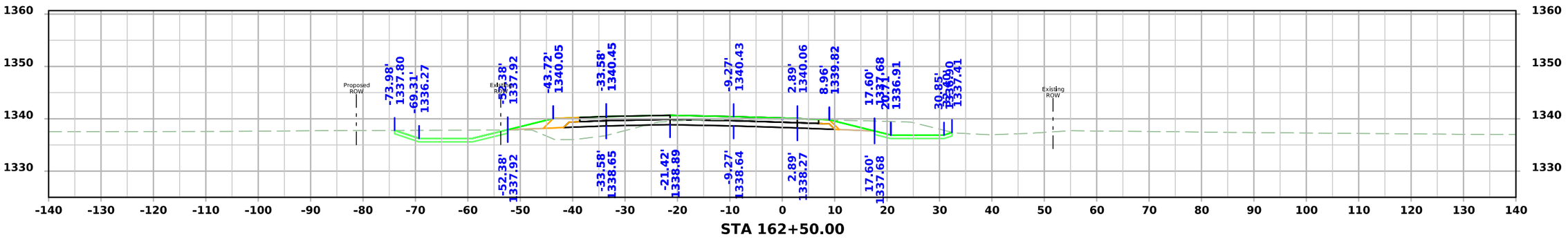


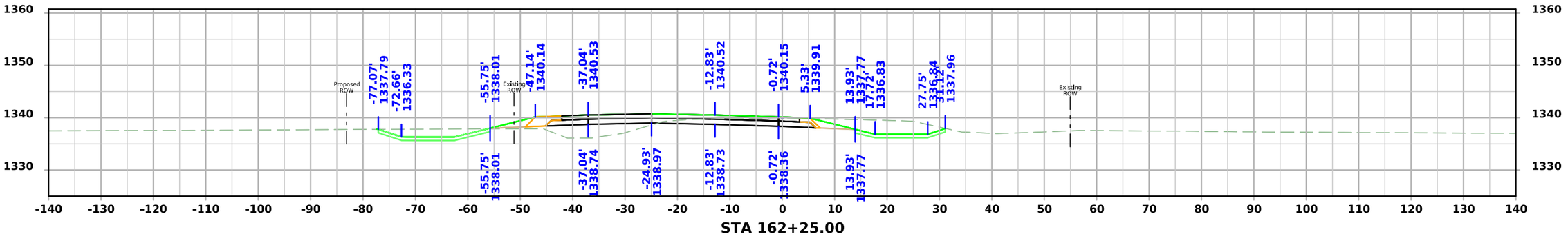
STA 161+25.00

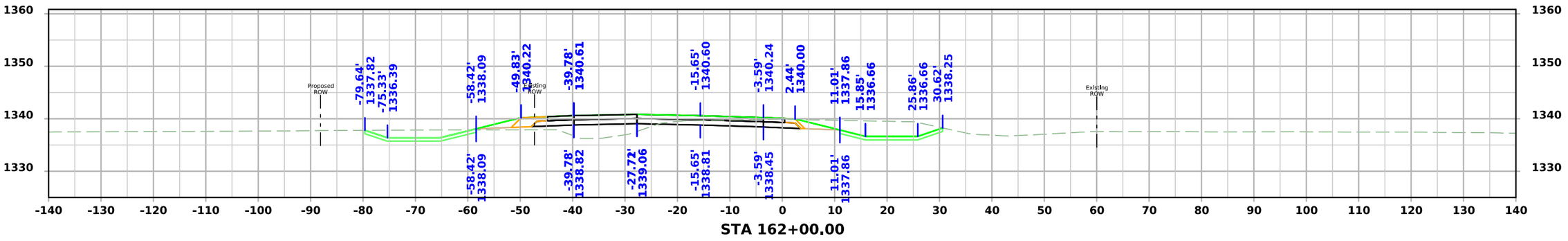
FILE NO.	ENGLISH	DESIGN TEAM **Strum/Janus**	**CLAY** COUNTY	PROJECT NUMBER **HSIPX-018-2(142)--3H-21**	SHEET NUMBER **X.5**

8:39:13 AM 7/2/2026 ajanus2 pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\2101802023\Design\CADD_Files\Sheet_Files\SHT_21018142_X01.dgn

320th St



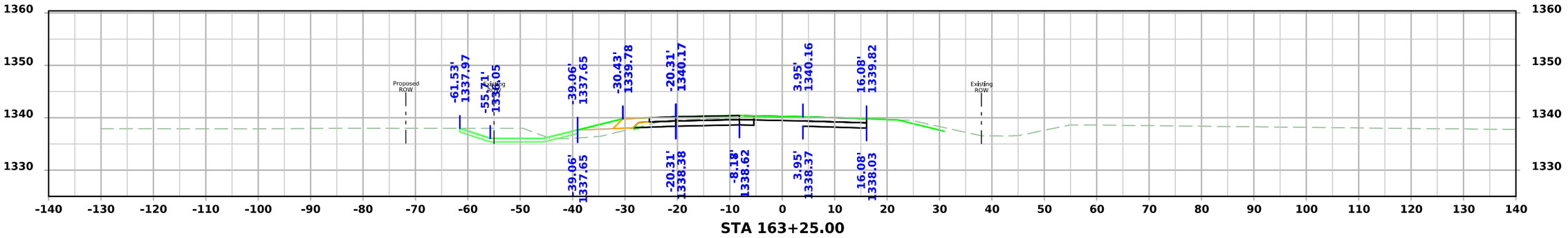




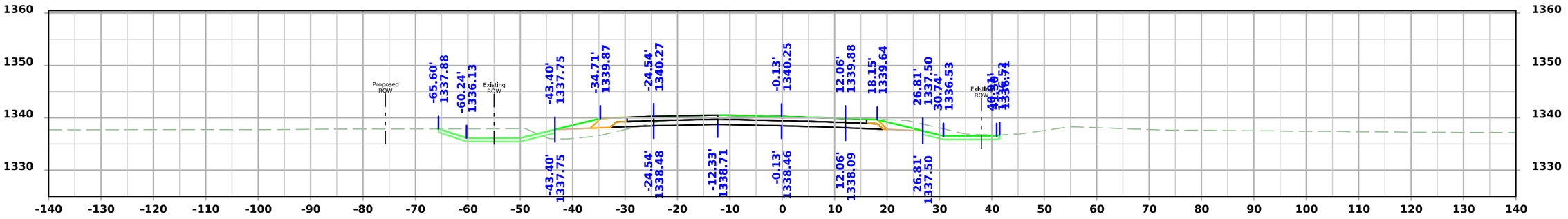
FILE NO.	ENGLISH	DESIGN TEAM **Strum/Janus**	**CLAY** COUNTY	PROJECT NUMBER **HSIPX-018-2(142)--3H-21**	SHEET NUMBER **X.6**

8:39:14 AM 7/2/2026 ajanus2 pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\2101802023\Design\CADD_Files\Sheet_Files\SHT_21018142_X01.dgn

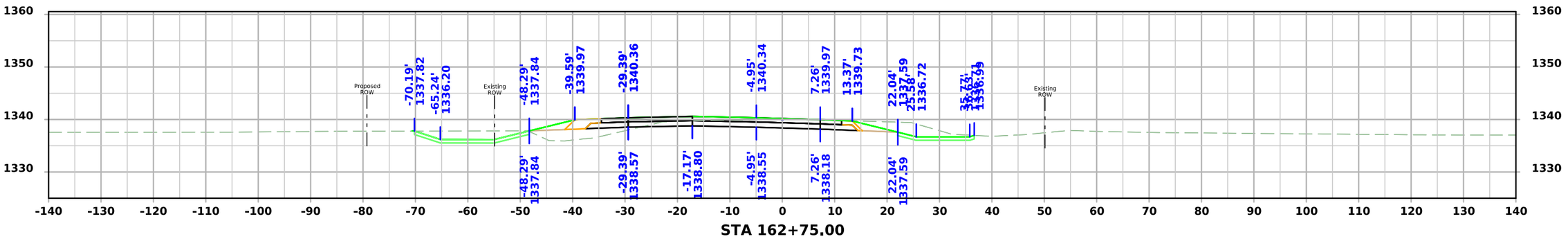
320th St



STA 163+25.00



STA 163+00.00

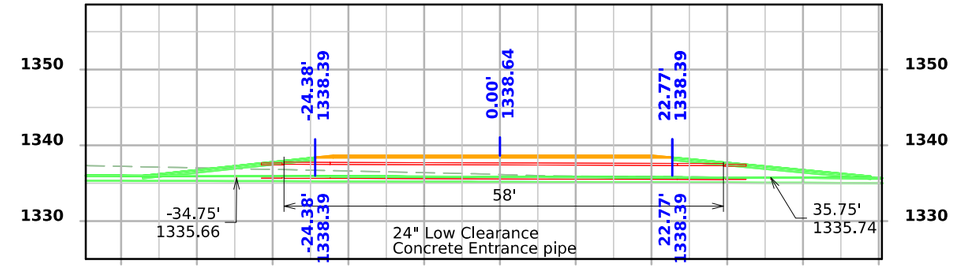


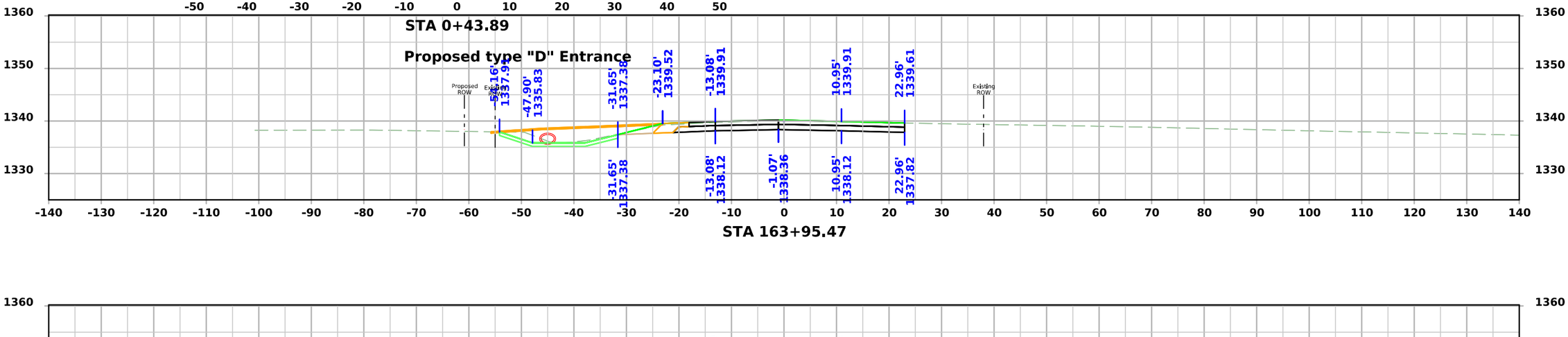
STA 162+75.00

FILE NO.	ENGLISH	DESIGN TEAM **Strum/Janus**	**CLAY** COUNTY	PROJECT NUMBER **HSIPX-018-2(142)--3H-21**	SHEET NUMBER **X.7**

8:39:14 AM 7/2/2026 ajanus2 pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\2101802023\Design\CADD_Files\Sheet_Files\SHT_21018142_X01.dgn

320th St

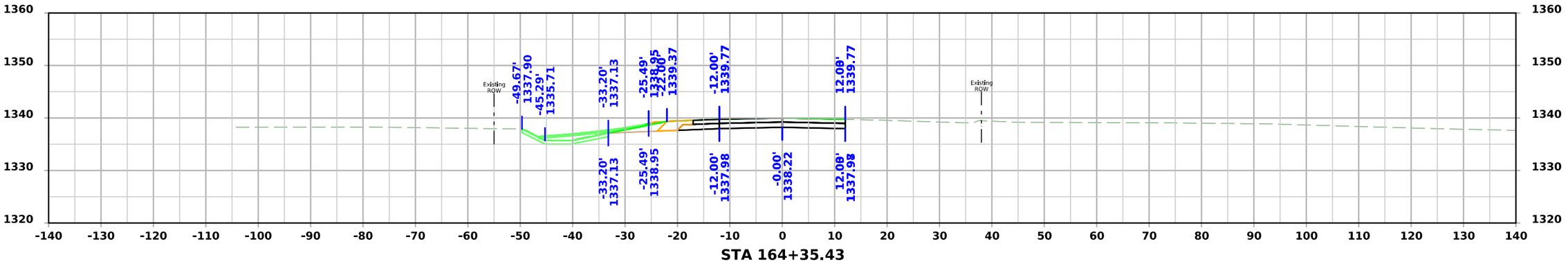




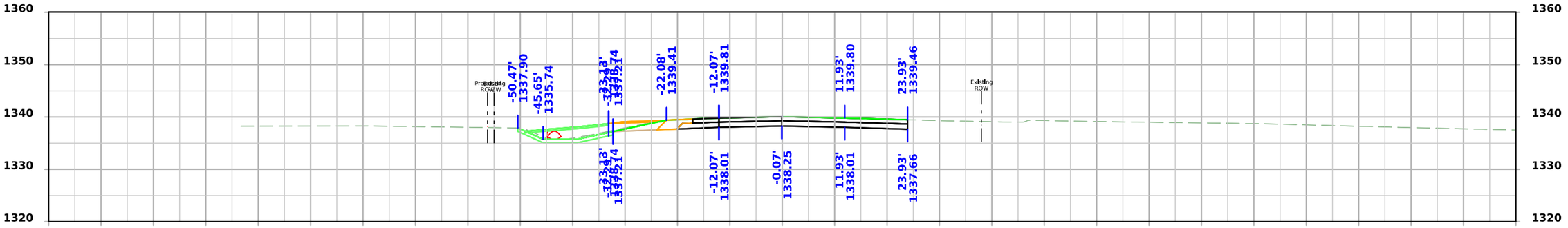
FILE NO.	ENGLISH	DESIGN TEAM Strum/Janus	CLAY COUNTY	PROJECT NUMBER HSIPX-018-2(142)--3H-21	SHEET NUMBER X.11

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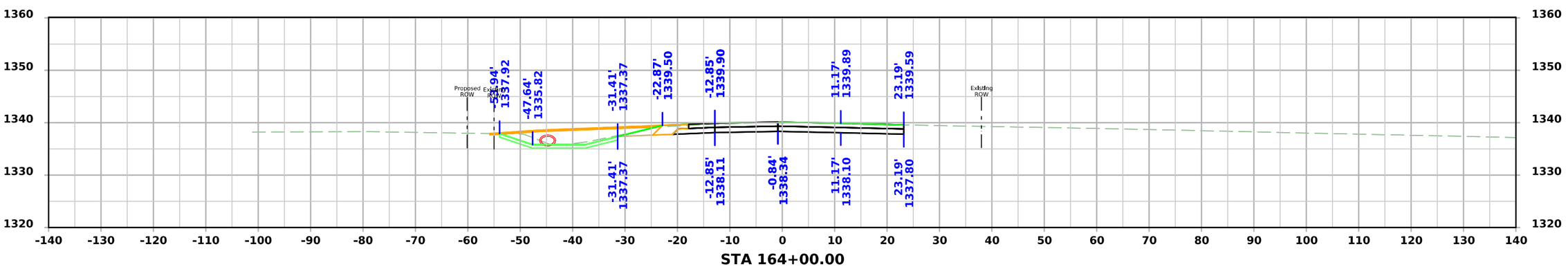
320th St



STA 164+35.43



STA 164+25.00

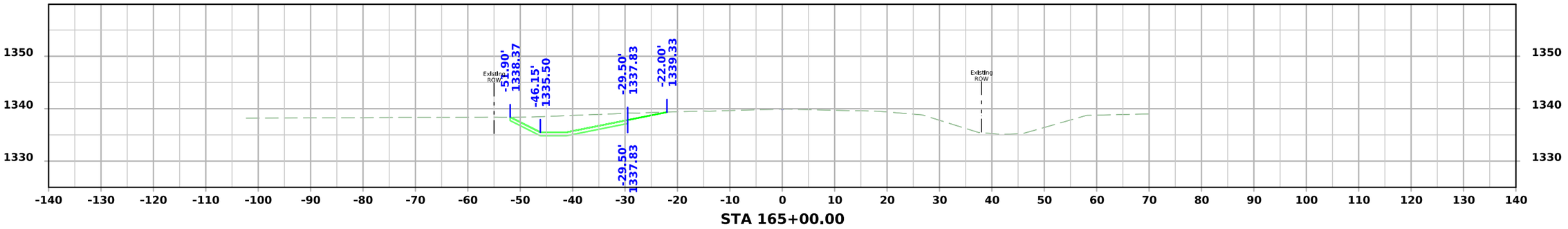


STA 164+00.00

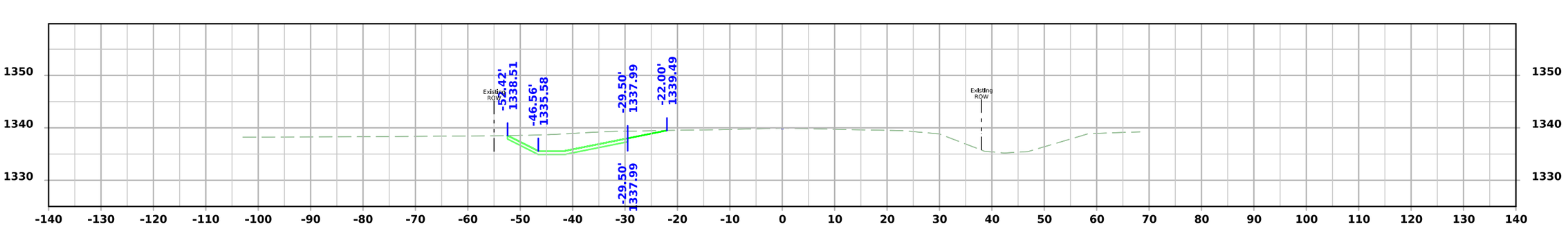
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8:39:16 AM 7/2/2026 ajanus2 pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\2101802023\Design\CADD_Files\Sheet_Files\SHT_21018142_X01.dgn

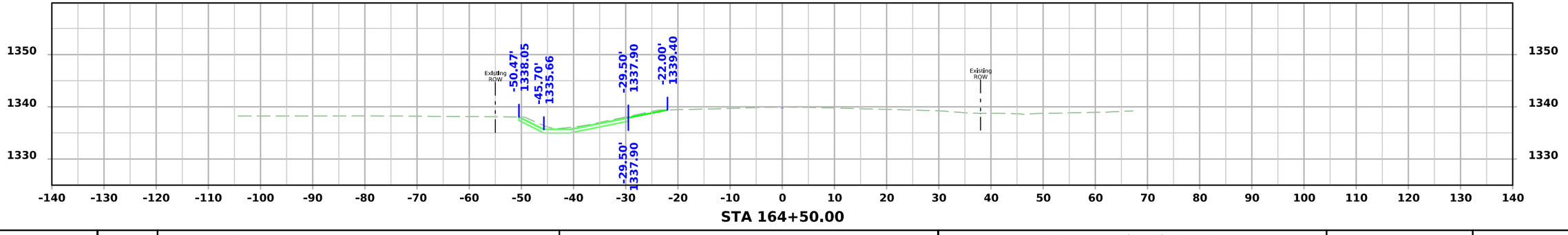
320th St



STA 165+00.00



STA 164+75.00

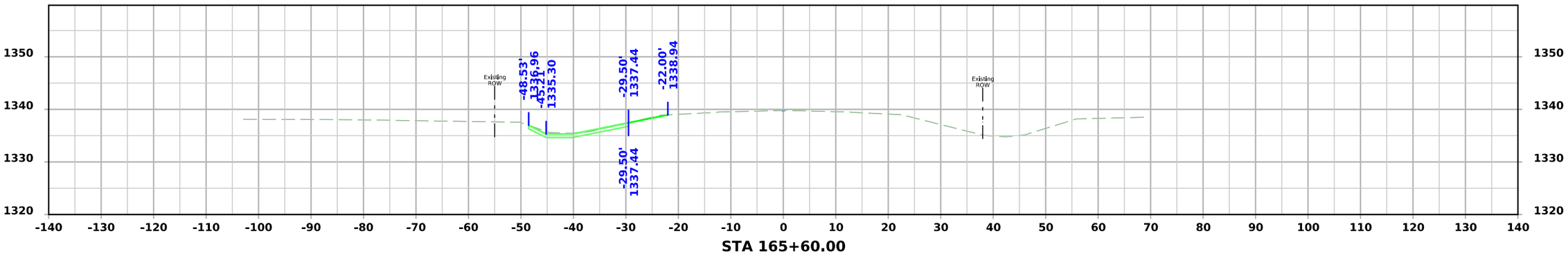


STA 164+50.00

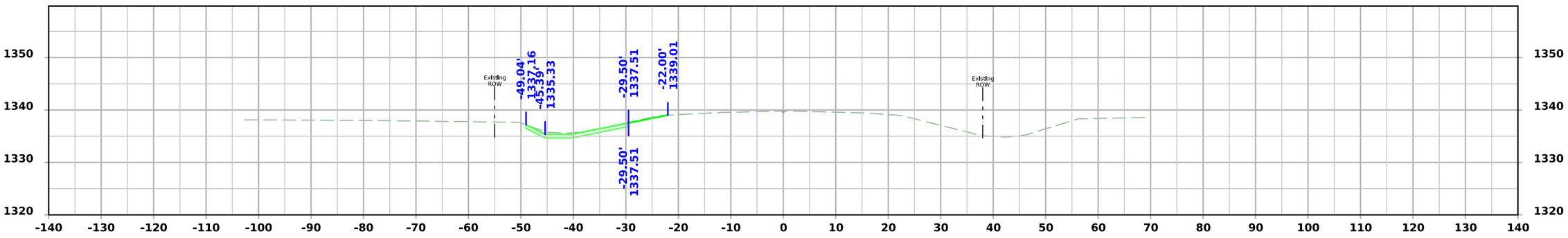
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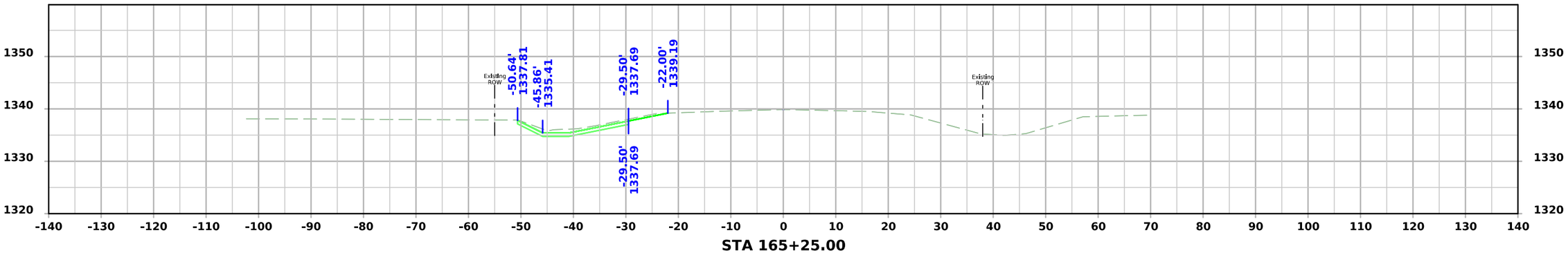
320th St



STA 165+60.00



STA 165+50.00

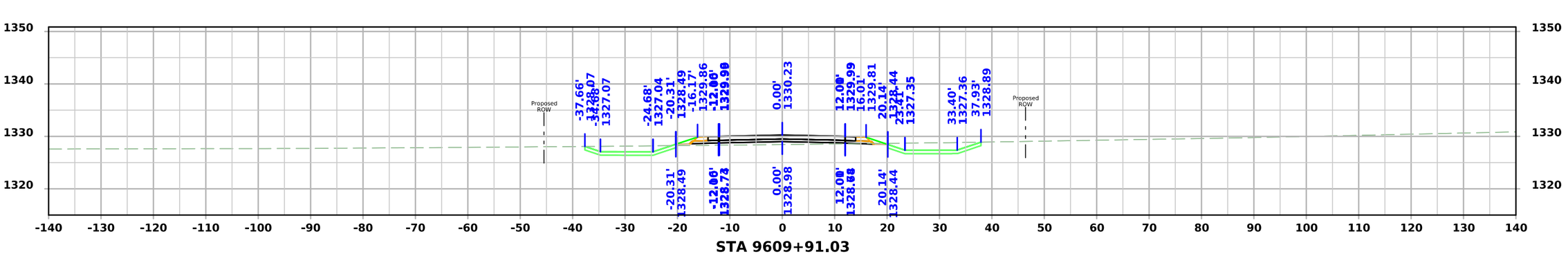


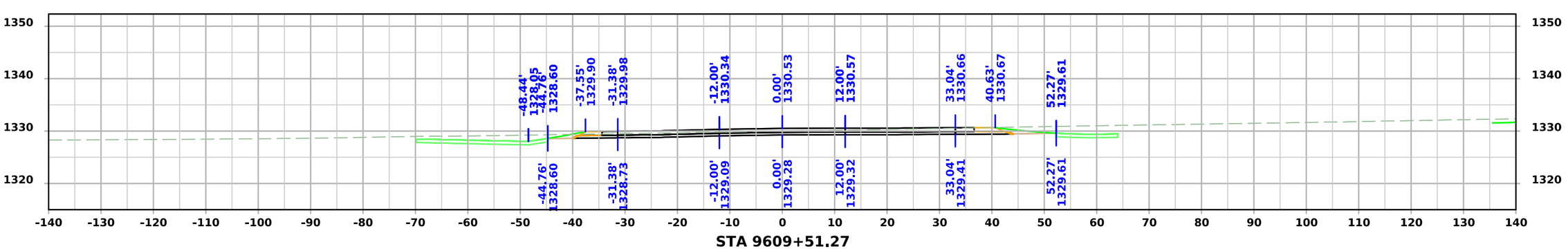
STA 165+25.00

FILE NO.	ENGLISH	DESIGN TEAM Strum/Janus	CLAY COUNTY	PROJECT NUMBER HSIPX-018-2(142)--3H-21	SHEET NUMBER X.11	

8:39:18 AM 7/2/2026 ajanus2 pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\2101802023\Design\CADD_Files\Sheet_Files\SHT_21018142_X01.dgn

W 43rd St

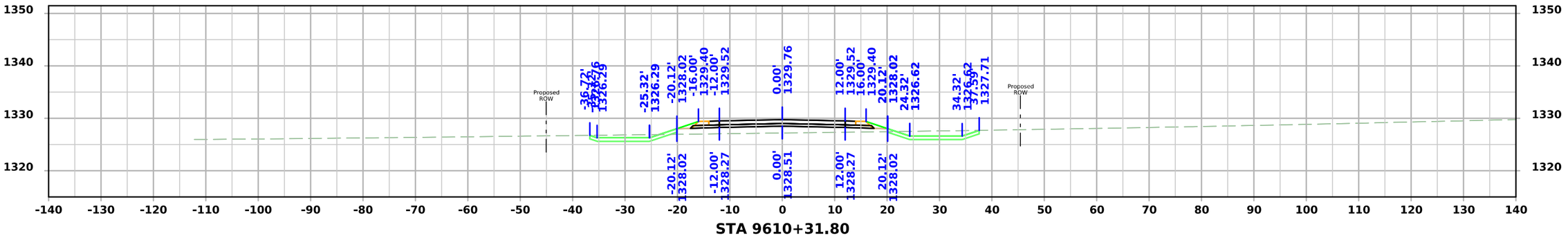




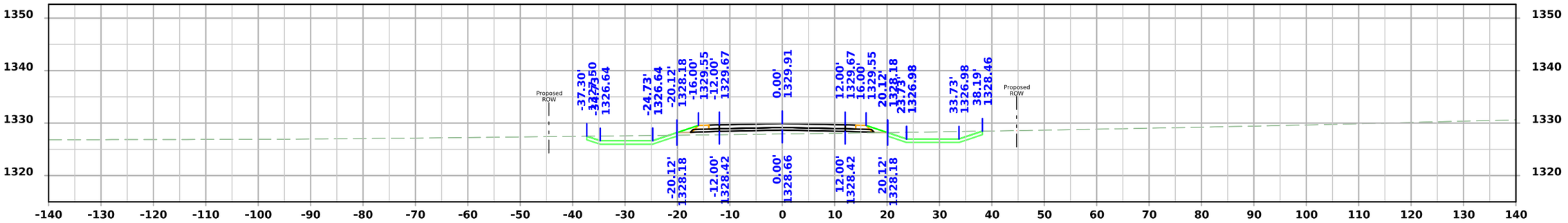
FILE NO.	ENGLISH	DESIGN TEAM Strum/Janus/Gunderson	CLAY COUNTY	PROJECT NUMBER HSIPX-018-2(142)--3L-21	SHEET NUMBER X.14

8:39:24 AM 7/2/2026 ajanus2 pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\2101802023\Design\CADD_Files\Sheet_Files\SHT_21018142_X02_W43RD_.dgn

W 43rd St



STA 9610+31.80

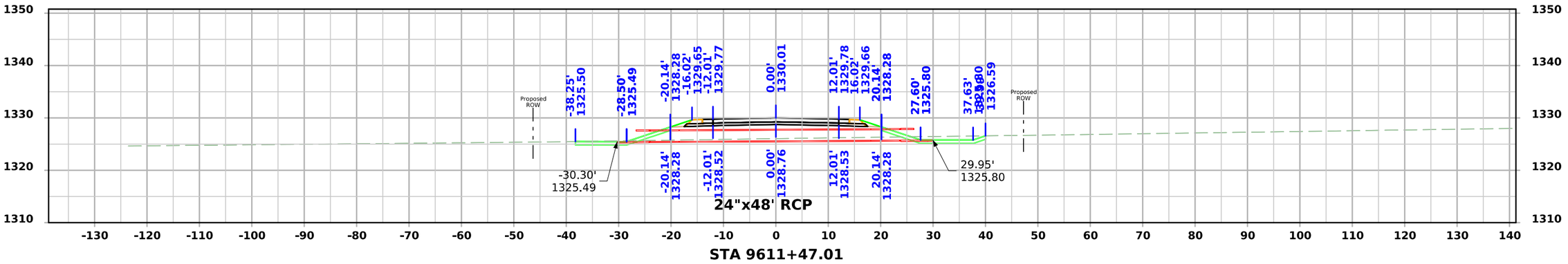


STA 9609+81.80

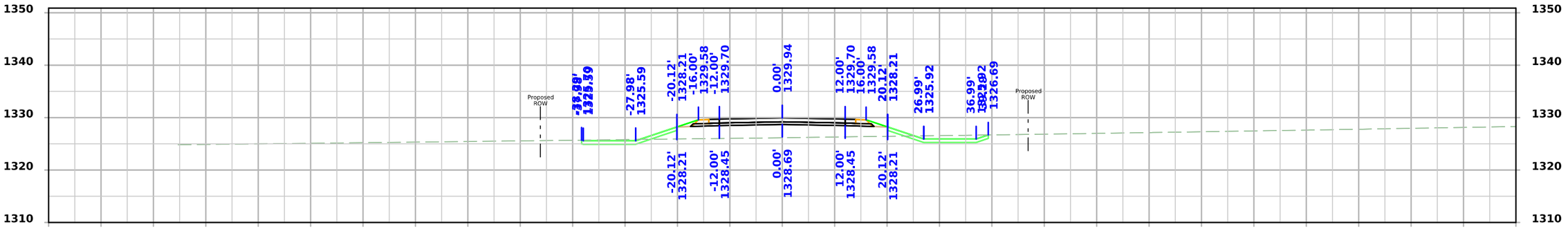
FILE NO.	ENGLISH	DESIGN TEAM Strum/Janus/Gunderson	CLAY COUNTY	PROJECT NUMBER HSIPX-018-2(142)--3L-21	SHEET NUMBER X.15

8:39:24 AM 7/2/2026 ajanus2 pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\2101802023\Design\CADD_Files\Sheet_Files\SHT_21018142_X02_W43RD_.dgn

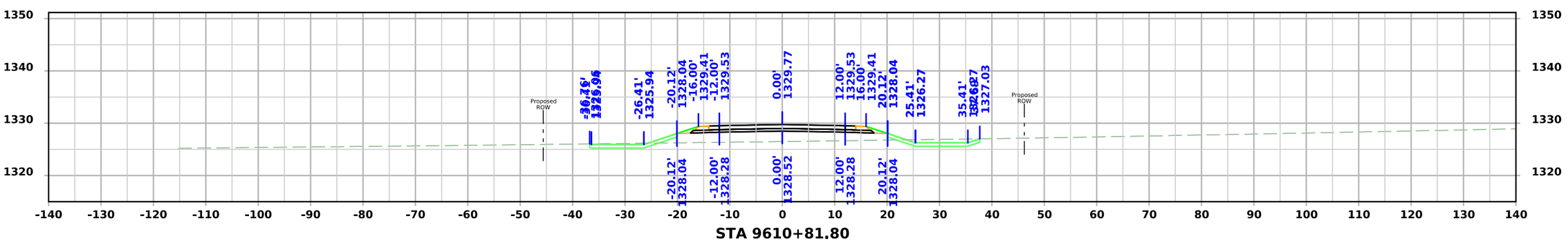
W 43rd St



STA 9611+47.01



STA 9611+31.80

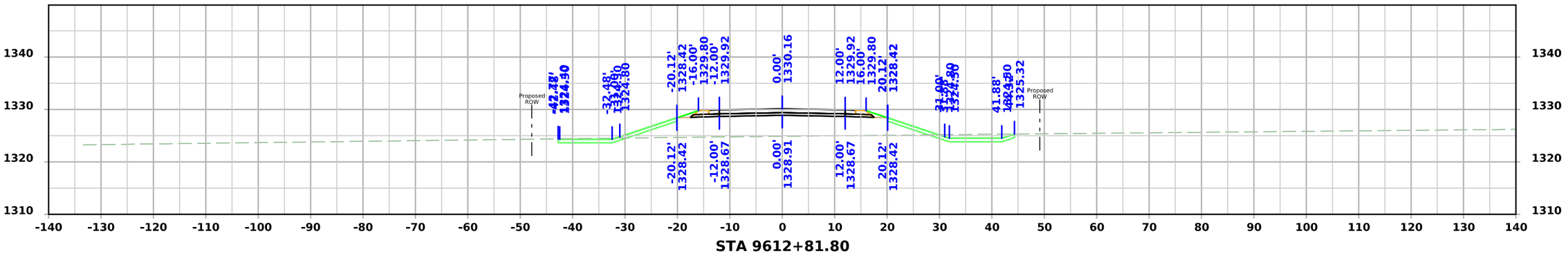


STA 9610+81.80

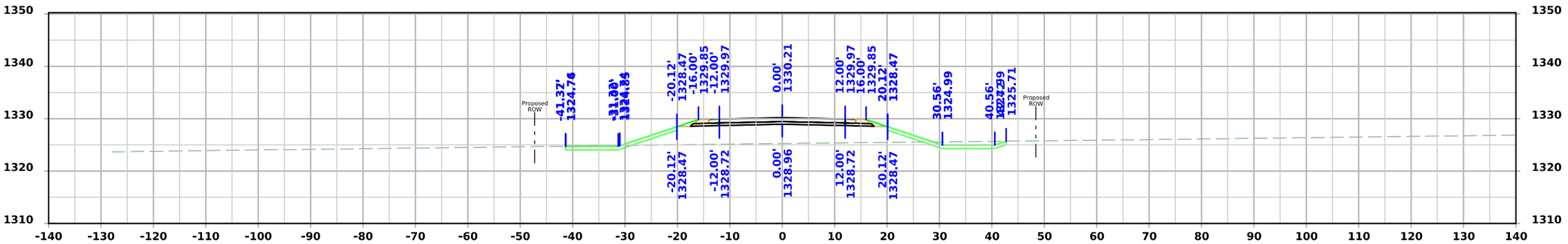
FILE NO.	ENGLISH	DESIGN TEAM Strum/Janus/Gunderson	CLAY COUNTY	PROJECT NUMBER HSIPX-018-2(142)--3L-21	SHEET NUMBER X.16

8:39:25 AM 7/2/2026 ajanus2 pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\2101802023\Design\CADD_Files\Sheet_Files\SHT_21018142_X02_W43RD_.dgn

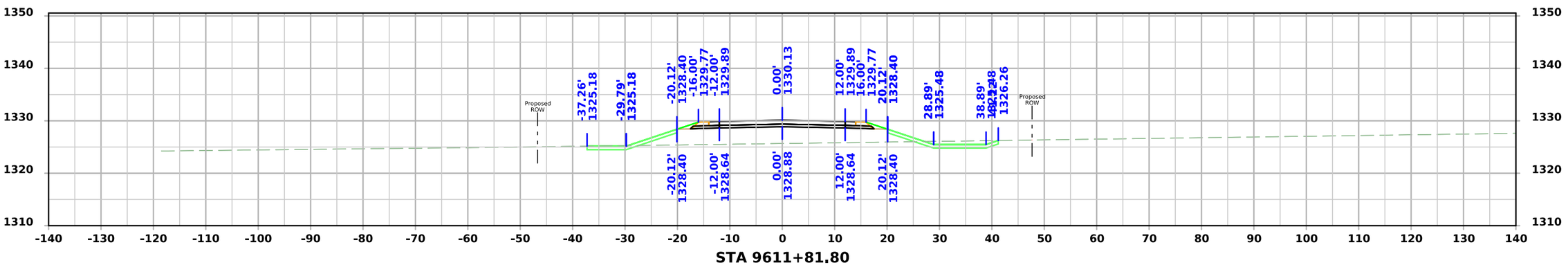
W 43rd St



STA 9612+81.80



STA 9612+31.80

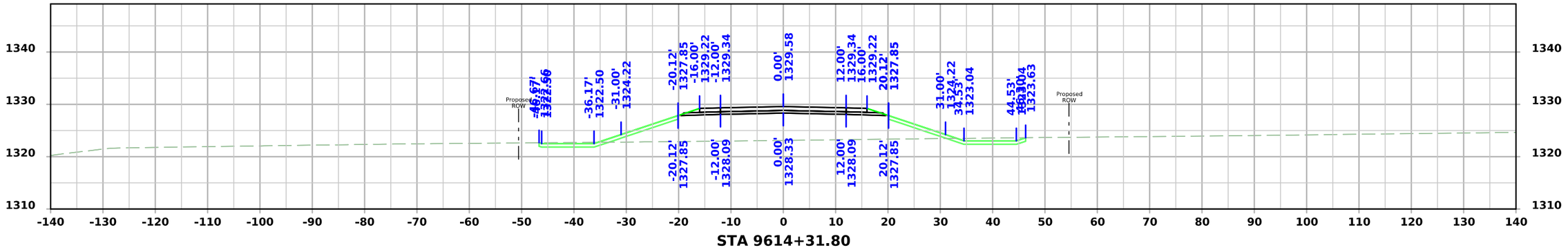


STA 9611+81.80

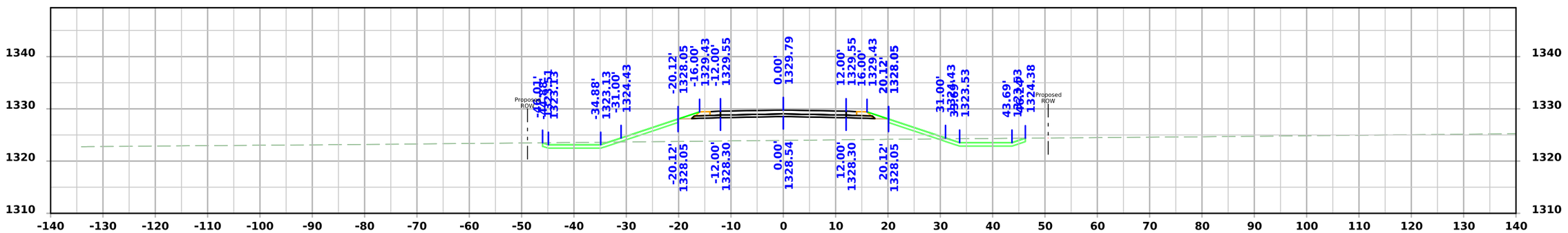
FILE NO.	ENGLISH	DESIGN TEAM Strum/Janus/Gunderson	CLAY COUNTY	PROJECT NUMBER HSIPX-018-2(142)--3L-21	SHEET NUMBER X.17

8:39:26 AM 7/2/2026 ajanus2 pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\2101802023\Design\CADD_Files\Sheet_Files\SHT_21018142_X02_W43RD_.dgn

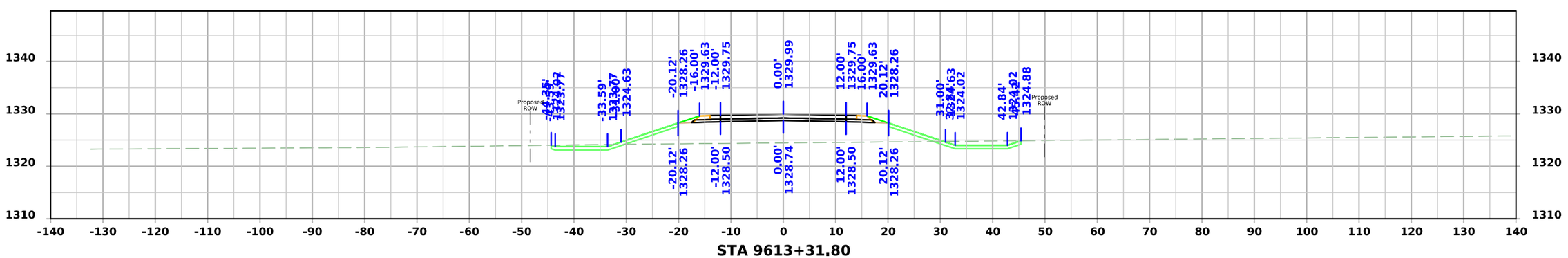
W 43rd St



STA 9614+31.80



STA 9613+81.80

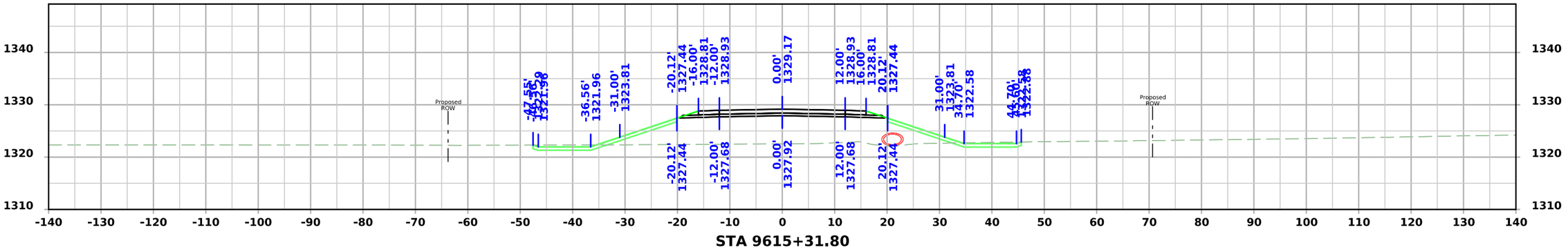


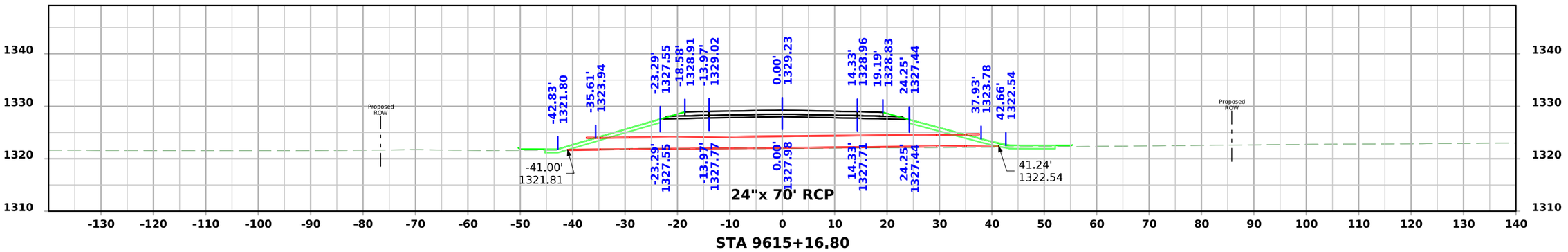
STA 9613+31.80

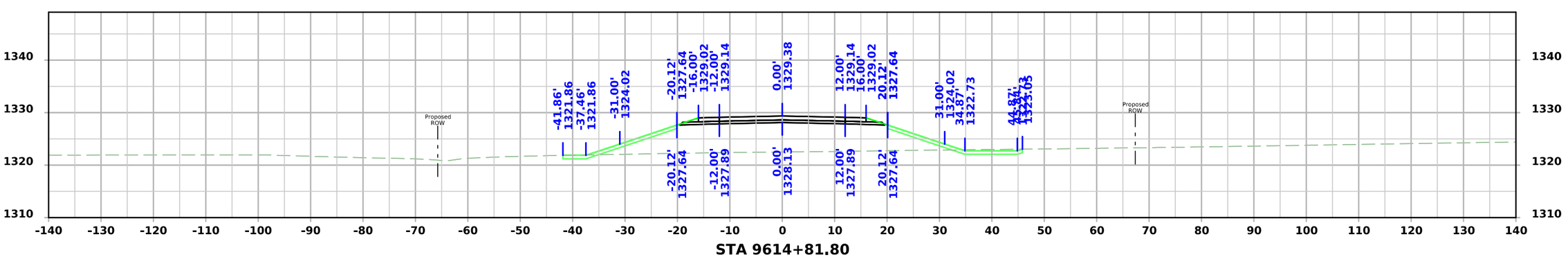
FILE NO.	ENGLISH	DESIGN TEAM Strum/Janus/Gunderson	CLAY COUNTY	PROJECT NUMBER HSIPX-018-2(142)--3L-21	SHEET NUMBER X.18

8:39:26 AM 7/2/2026 ajanus2 pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\2101802023\Design\CADD_Files\Sheet_Files\SHT_21018142_X02_W43RD_.dgn

W 43rd St



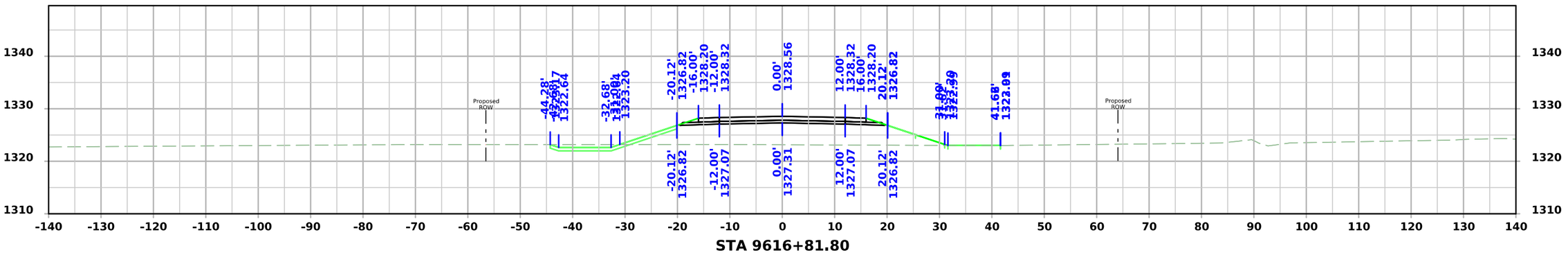




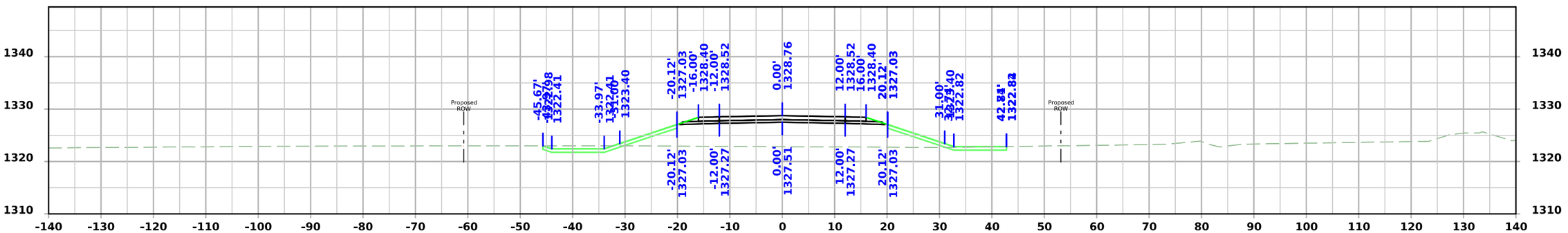
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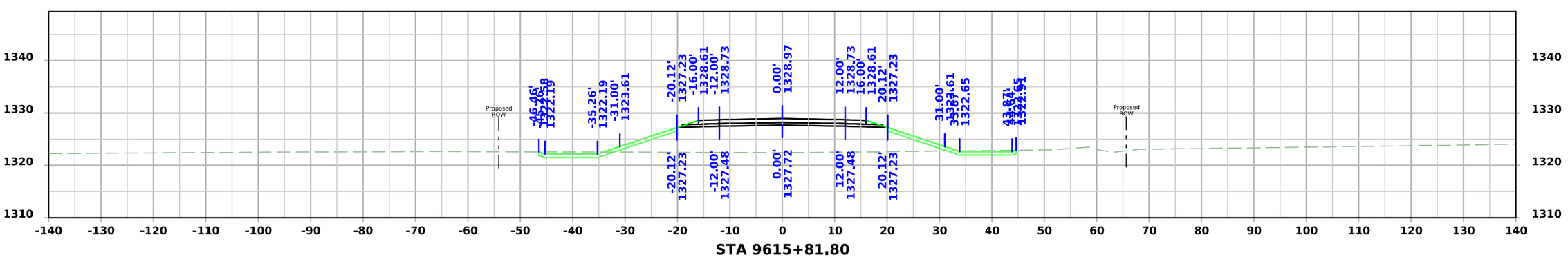
W 43rd St



STA 9616+81.80



STA 9616+31.80

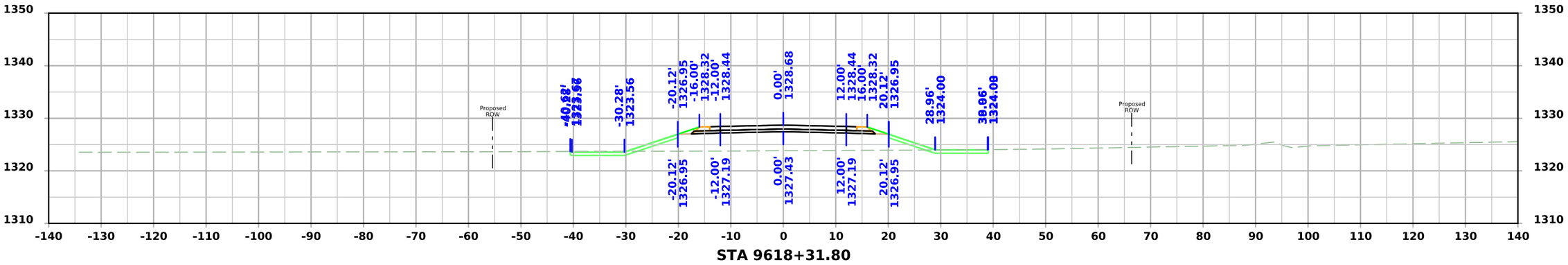


STA 9615+81.80

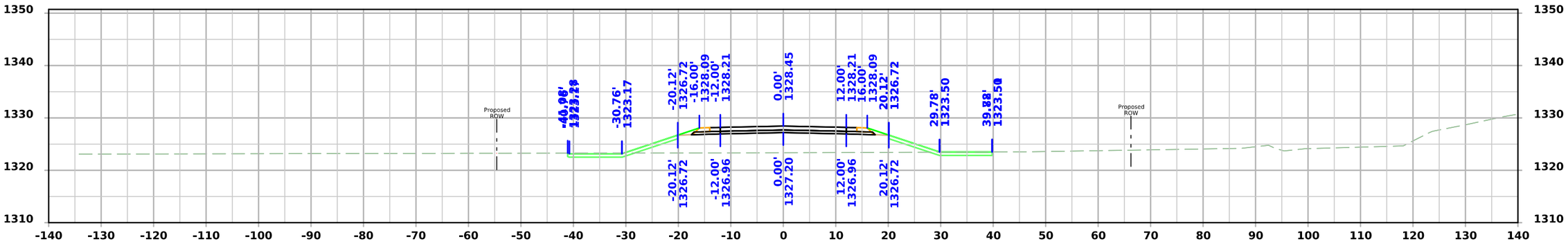
FILE NO.	ENGLISH	DESIGN TEAM Strum/Janus/Gunderson	CLAY COUNTY	PROJECT NUMBER HSIPX-018-2(142)--3L-21	SHEET NUMBER X.20

8:39:29 AM 7/2/2026 ajanus2 pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\2101802023\Design\CADD_Files\Sheet_Files\SHT_21018142_X02_W43RD_.dgn

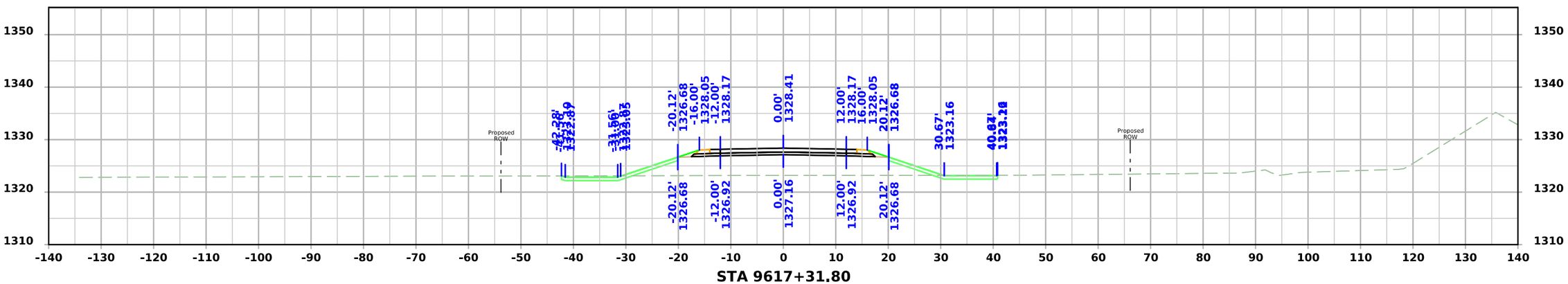
W 43rd St



STA 9618+31.80



STA 9617+81.80

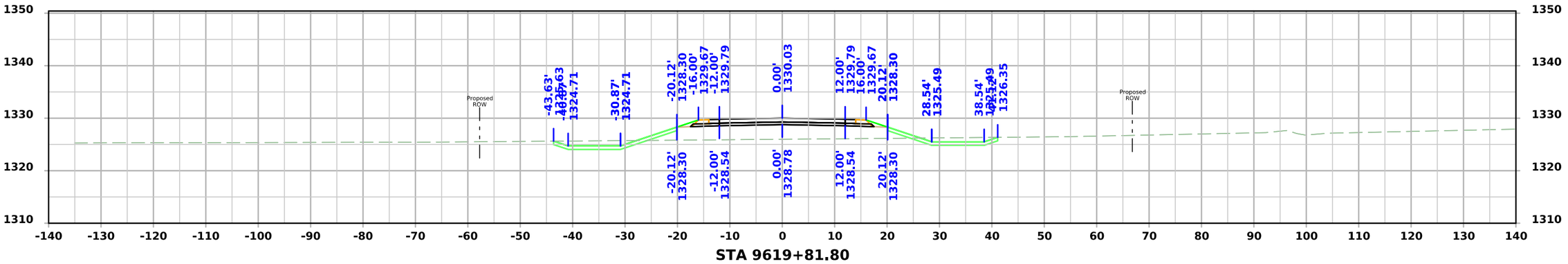


STA 9617+31.80

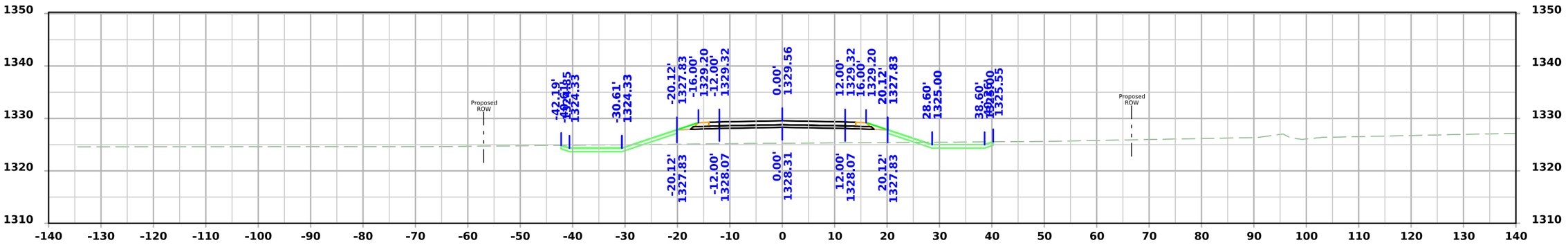
FILE NO.	ENGLISH	DESIGN TEAM Strum/Janus/Gunderson	CLAY COUNTY	PROJECT NUMBER HSIPX-018-2(142)--3L-21	SHEET NUMBER X.21

8:39:30 AM 7/2/2026 ajanus2 pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\2101802023\Design\CADD_Files\Sheet_Files\SHT_21018142_X02_W43RD_.dgn

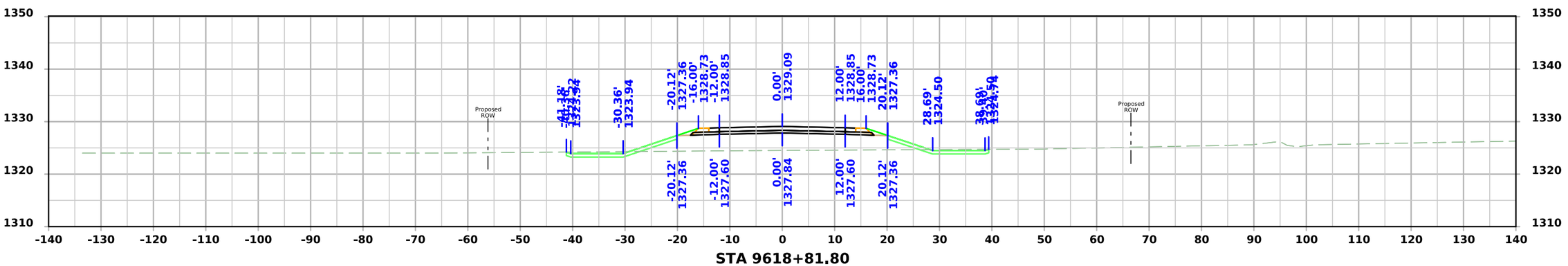
W 43rd St



STA 9619+81.80



STA 9619+31.80

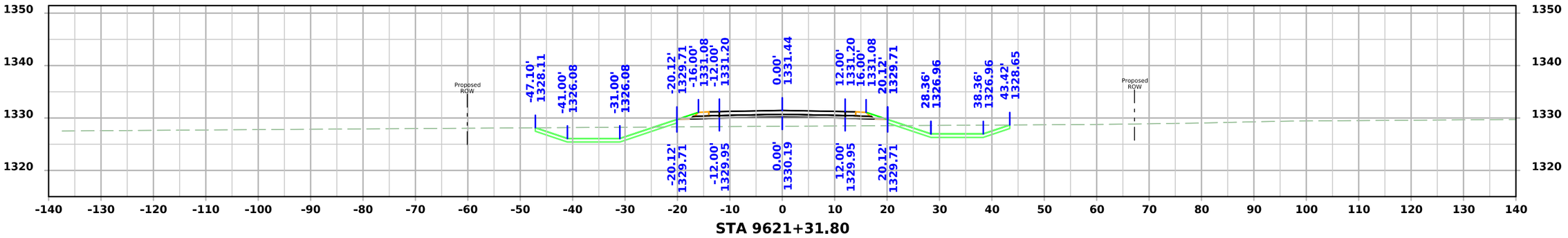


STA 9618+81.80

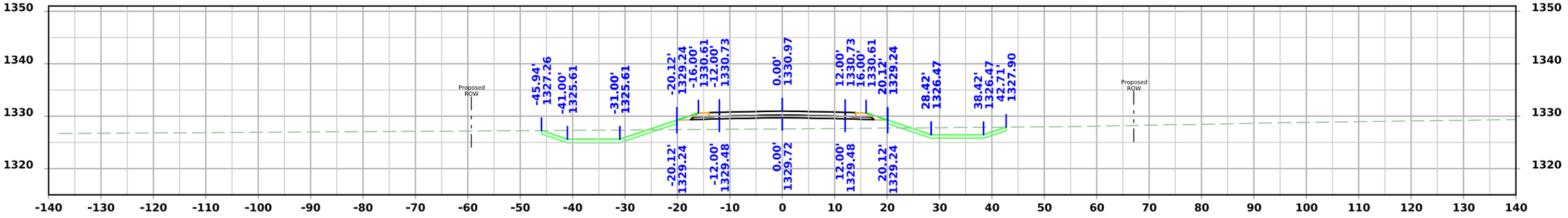
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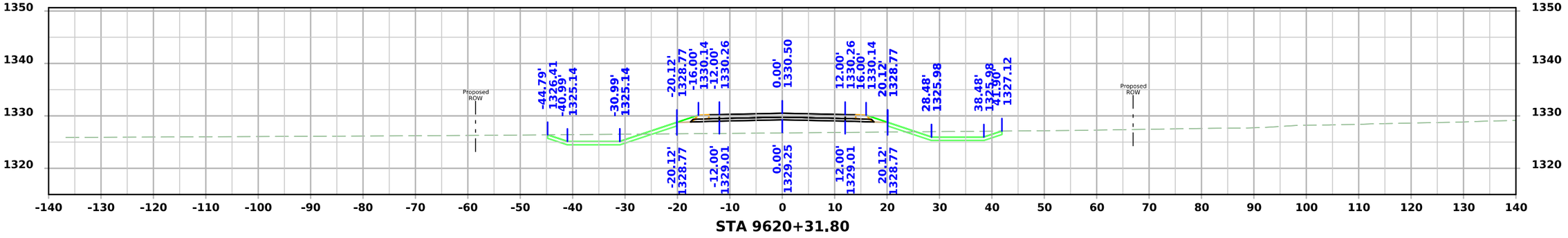
W 43rd St



STA 9621+31.80



STA 9620+81.80

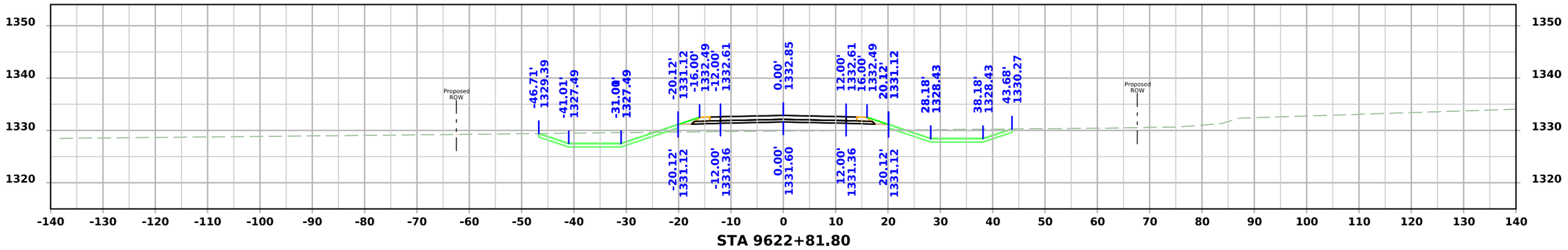


STA 9620+31.80

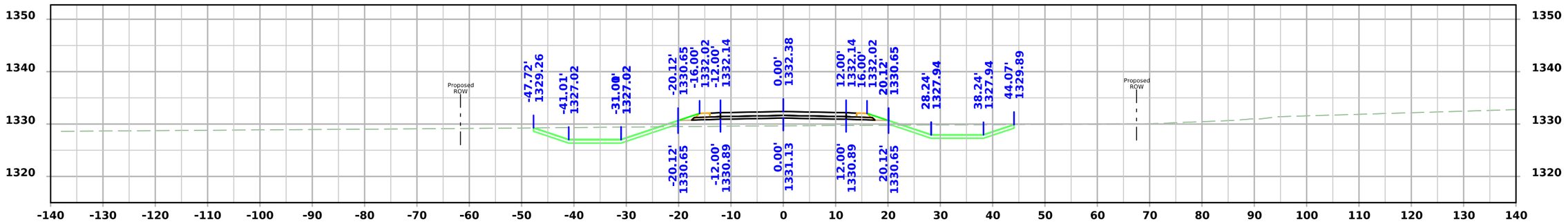
FILE NO.	ENGLISH	DESIGN TEAM Strum/Janus/Gunderson	CLAY COUNTY	PROJECT NUMBER HSIPX-018-2(142)--3L-21	SHEET NUMBER X.23

8:39:31 AM 7/2/2026 ajanus2 pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\2101802023\Design\CADD_Files\Sheet_Files\SHT_21018142_X02_W43RD_.dgn

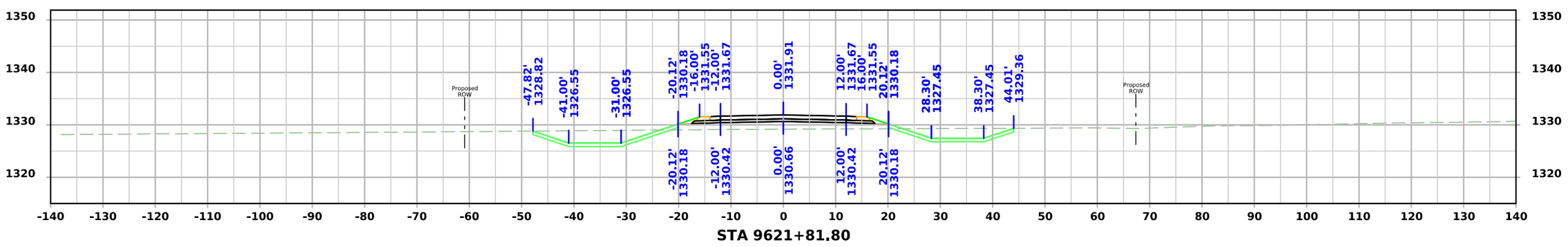
W 43rd St



STA 9622+81.80



STA 9622+31.80

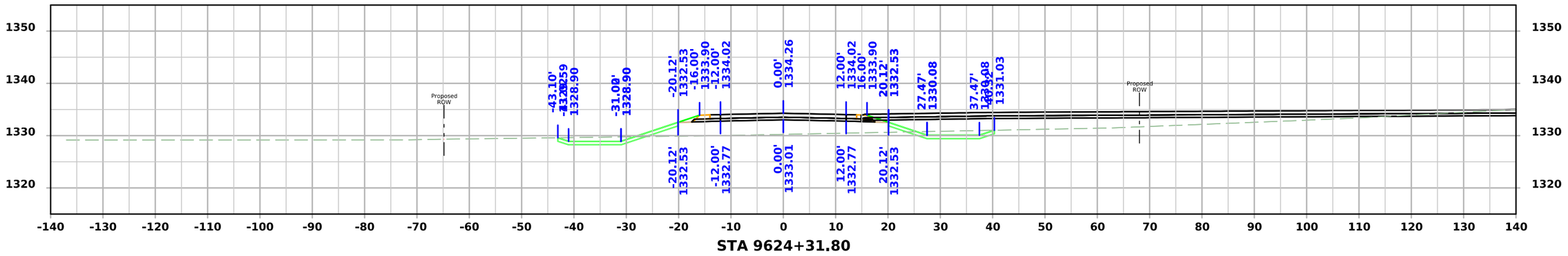


STA 9621+81.80

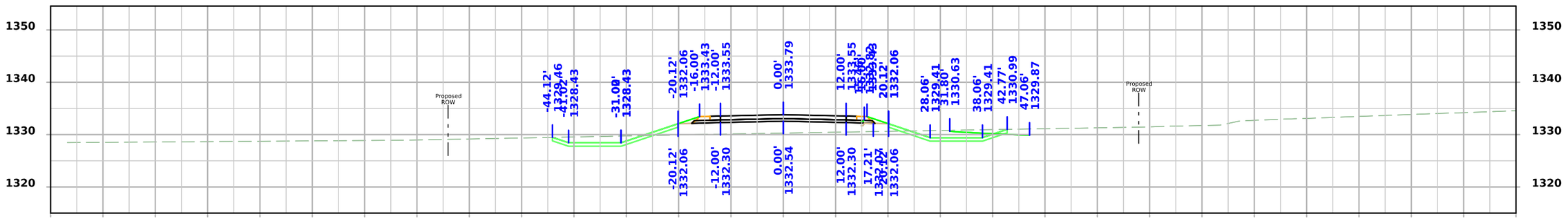
FILE NO.	ENGLISH	DESIGN TEAM Strum/Janus/Gunderson	CLAY COUNTY	PROJECT NUMBER HSIPX-018-2(142)--3L-21	SHEET NUMBER X.24

8:39:32 AM 7/2/2026 ajanus2 pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\2101802023\Design\CADD_Files\Sheet_Files\SHT_21018142_X02_W43RD_.dgn

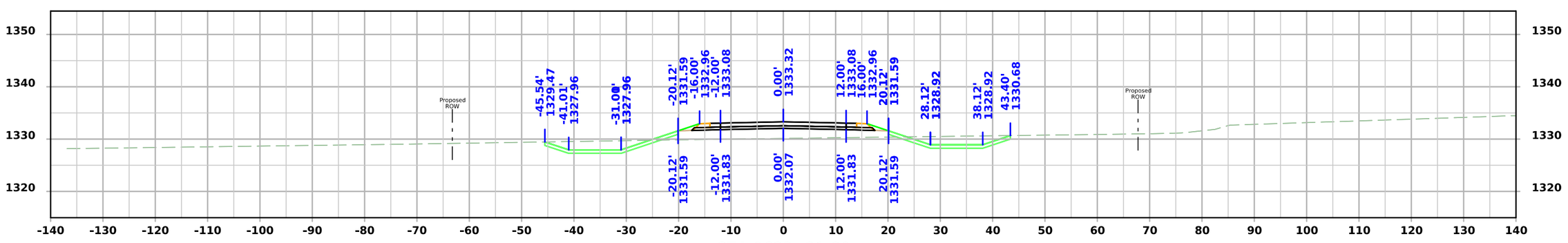
W 43rd St



STA 9624+31.80



STA 9623+81.80

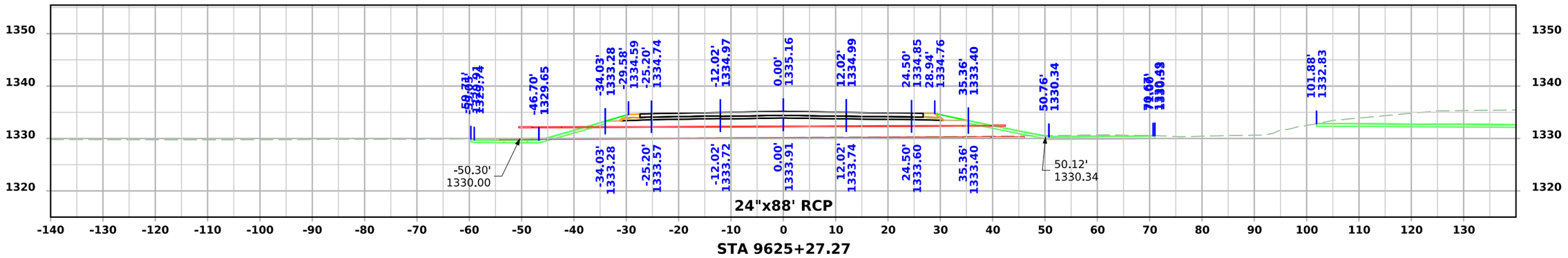


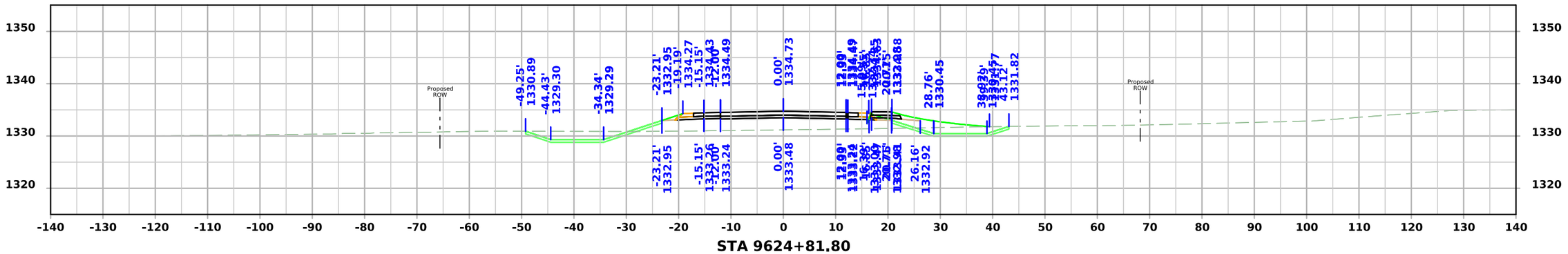
STA 9623+31.80

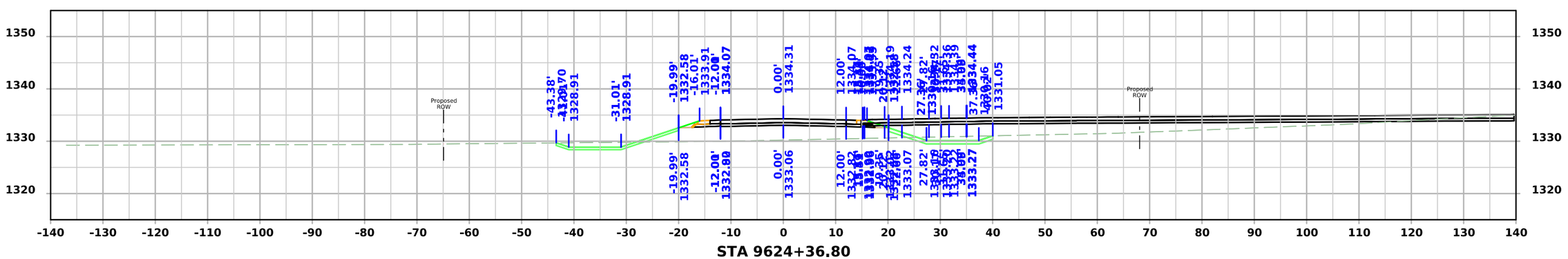
FILE NO.	ENGLISH	DESIGN TEAM Strum/Janus/Gunderson	CLAY COUNTY	PROJECT NUMBER HSIPX-018-2(142)--3L-21	SHEET NUMBER X.25

8:39:33 AM 7/2/2026 ajanus2 pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\2101802023\Design\CADD_Files\Sheet_Files\SHT_21018142_X02_W43RD_.dgn

W 43rd St



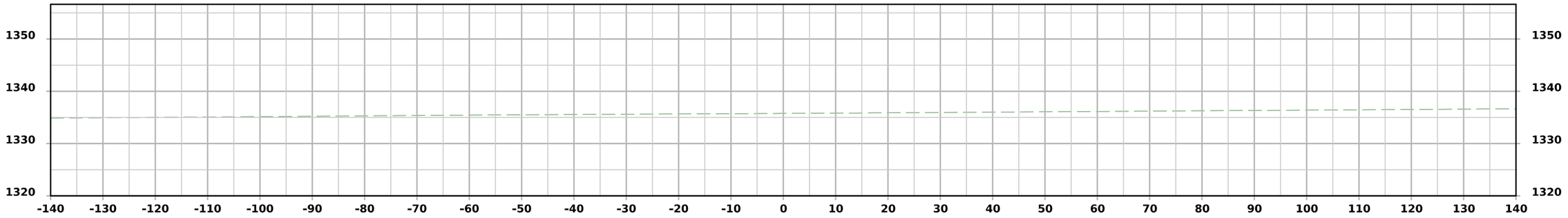




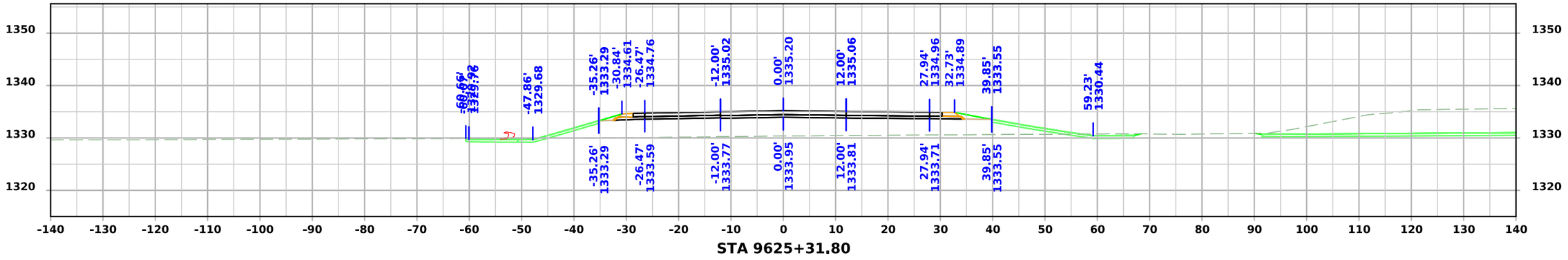
FILE NO.	ENGLISH	DESIGN TEAM Strum/Janus/Gunderson	CLAY COUNTY	PROJECT NUMBER HSIPX-018-2(142)--3L-21	SHEET NUMBER X.26

8:39:33 AM 7/2/2026 ajanus2 pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\2101802023\Design\CADD_Files\Sheet_Files\SHT_21018142_X02_W43RD_.dgn

W 43rd St



STA 9625+81.80

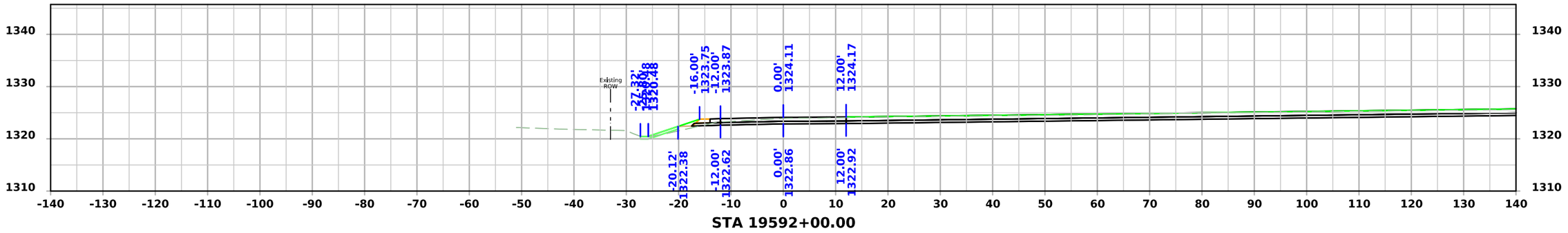


STA 9625+31.80

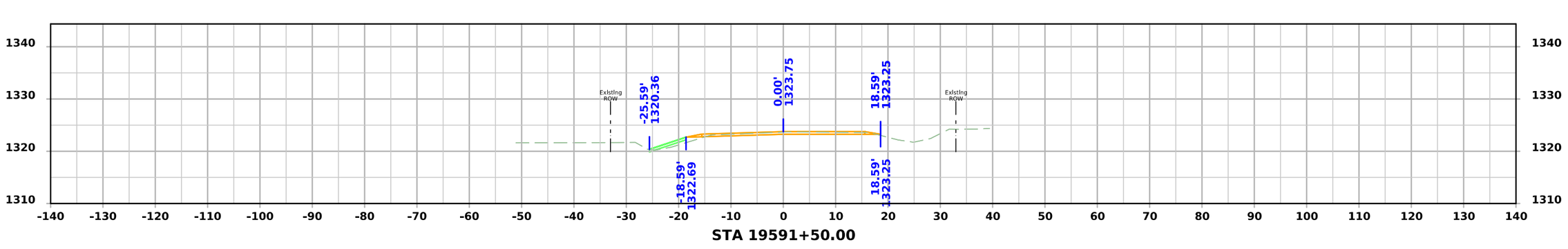
FILE NO.	ENGLISH	DESIGN TEAM Strum/Janus/Gunderson	CLAY COUNTY	PROJECT NUMBER HSIPX-018-2(142)--3L-21	SHEET NUMBER X.27

8:39:34 AM 7/2/2026 ajanus2 pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\2101802023\Design\CADD_Files\Sheet_Files\SHT_21018142_X02_W43RD_.dgn

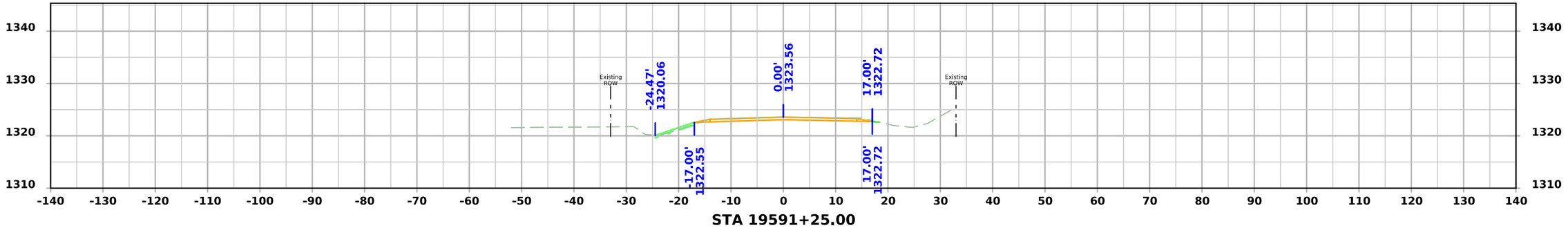
4th Ave W



STA 19592+00.00



STA 19591+50.00

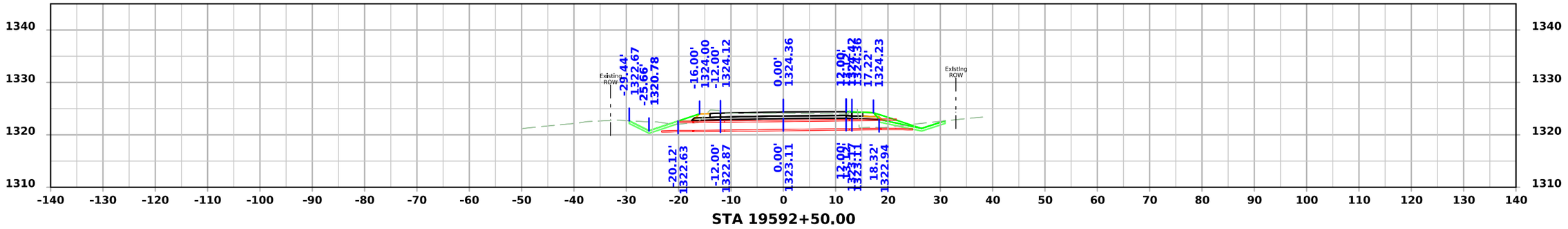


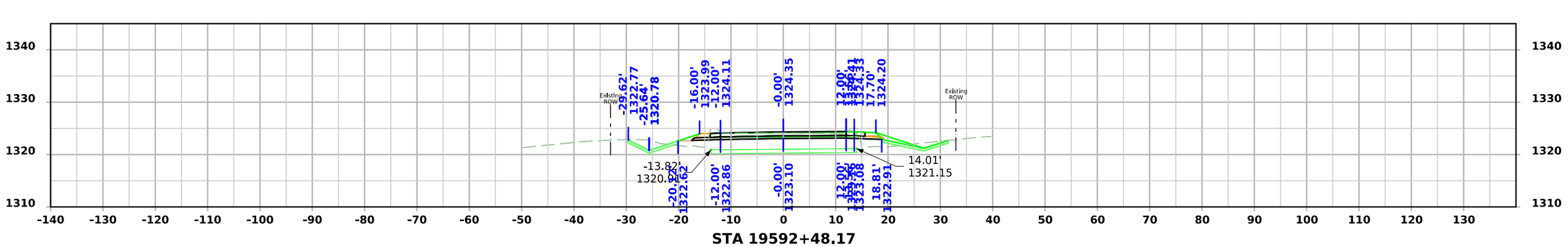
STA 19591+25.00

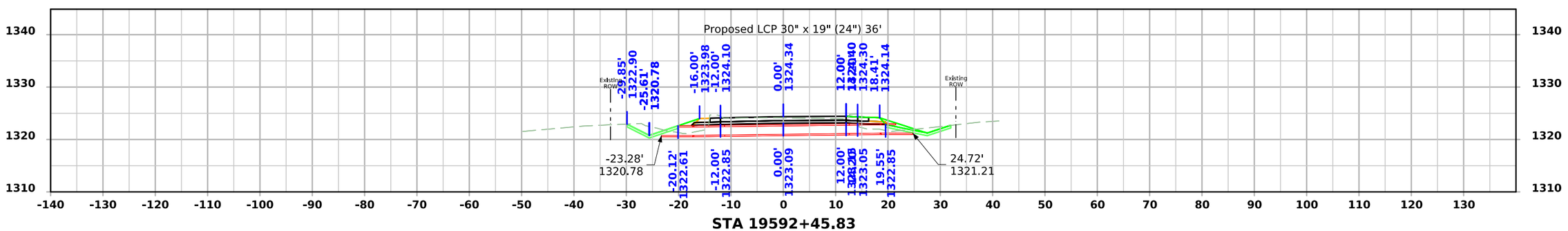
FILE NO.	ENGLISH	DESIGN TEAM Strum/Janus/Gunderson	CLAY COUNTY	PROJECT NUMBER HSIPX-018-2(142)--3L-21	SHEET NUMBER X.28

8:39:40 AM 7/2/2026 ajanus2 pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\2101802023\Design\CADD_Files\Sheet_Files\SHT_21018142_X03_4thW.dgn

4th Ave W



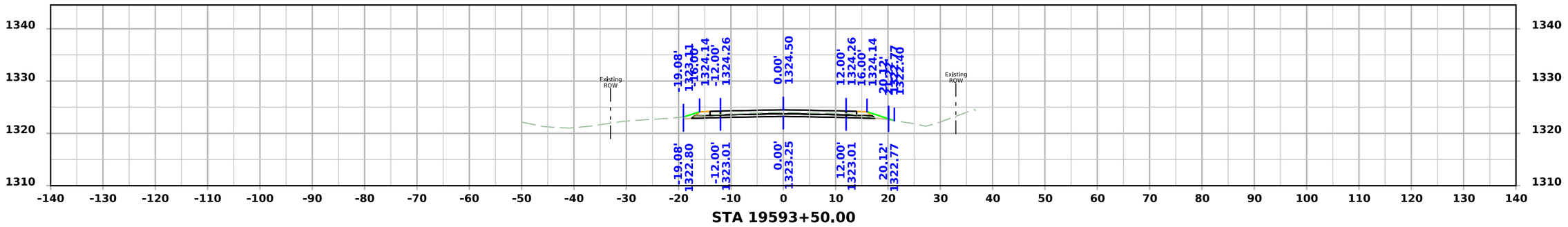


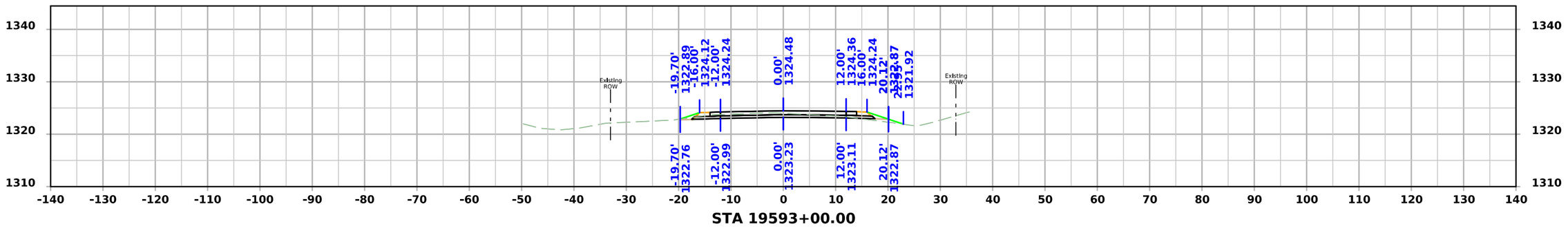


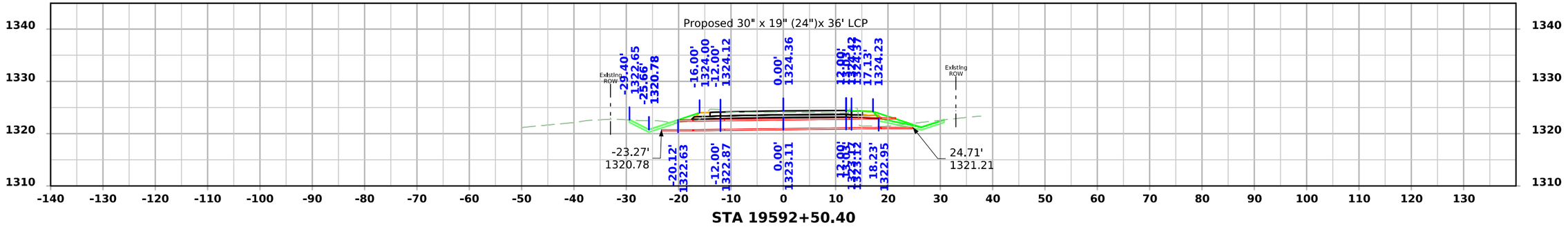
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8:39:41 AM 7/2/2026 ajanus2 pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\2101802023\Design\CADD_Files\Sheet_Files\SHT_21018142_X03_4thW.dgn

4th Ave W



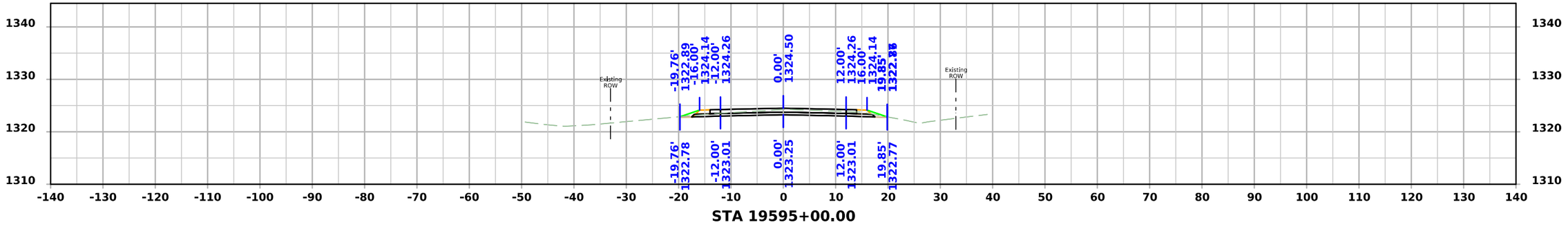




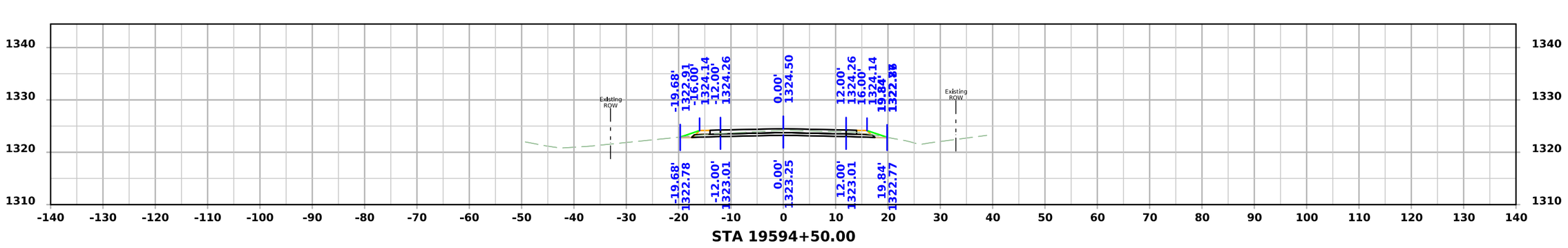
FILE NO.	ENGLISH	DESIGN TEAM Strum/Janus/Gunderson	CLAY COUNTY	PROJECT NUMBER HSIPX-018-2(142)--3L-21	SHEET NUMBER X.30

8:39:42 AM 7/2/2026 ajanus2 pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\2101802023\Design\CADD_Files\Sheet_Files\SHT_21018142_X03_4thW.dgn

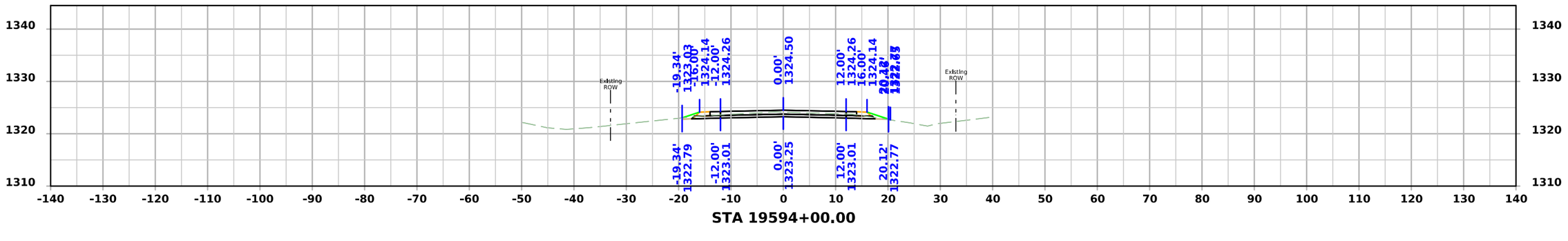
4th Ave W



STA 19595+00.00



STA 19594+50.00

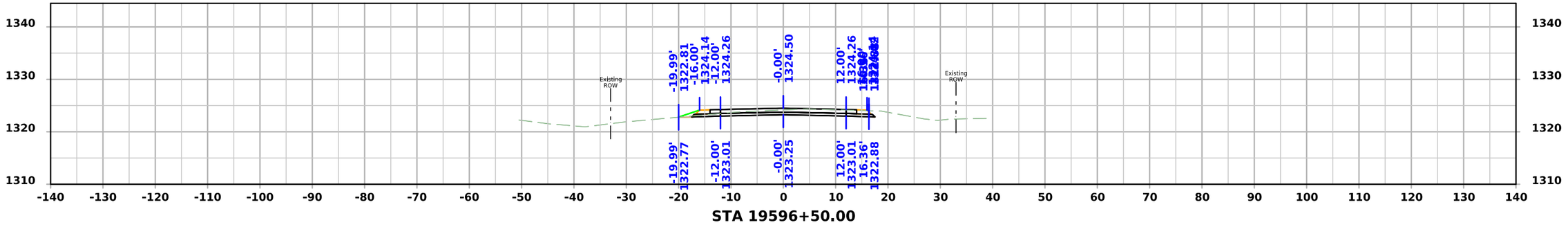


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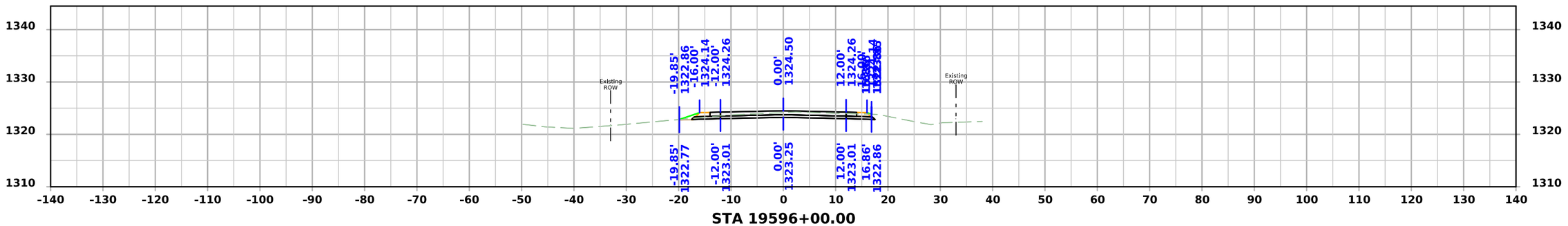
FILE NO.	ENGLISH	DESIGN TEAM Strum/Janus/Gunderson	CLAY COUNTY	PROJECT NUMBER HSIPX-018-2(142)--3L-21	SHEET NUMBER X.31

8:39:42 AM 7/2/2026 ajanus2 pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\2101802023\Design\CADD_Files\Sheet_Files\SHT_21018142_X03_4thW.dgn

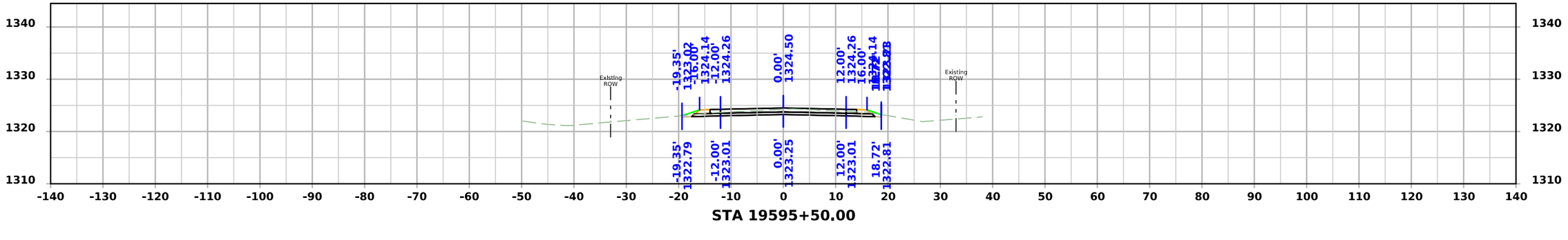
4th Ave W



STA 19596+50.00



STA 19596+00.00

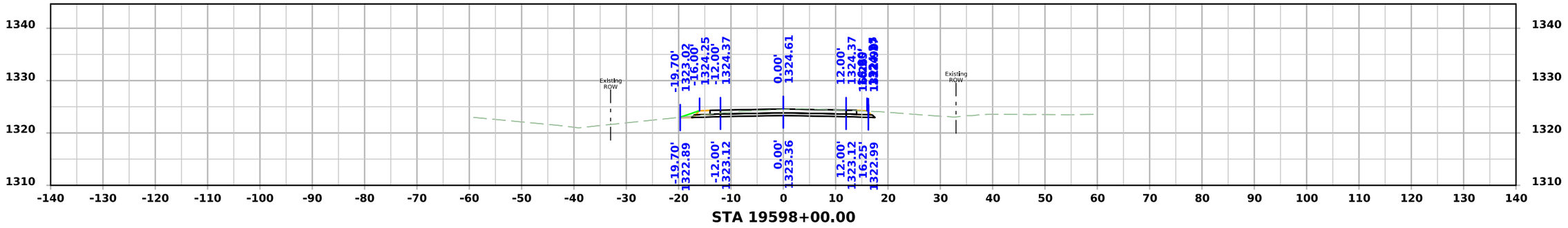


STA 19595+50.00

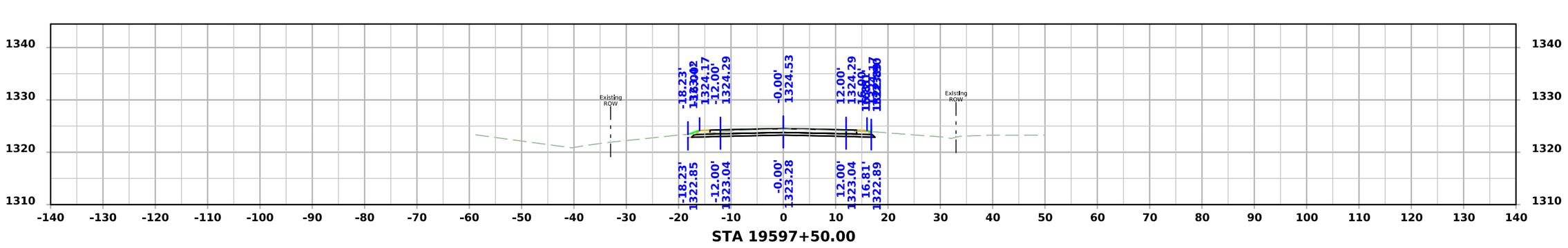
FILE NO.	ENGLISH	DESIGN TEAM Strum/Janus/Gunderson	CLAY COUNTY	PROJECT NUMBER HSIPX-018-2(142)--3L-21	SHEET NUMBER X.32

8:39:43 AM 7/2/2026 ajanus2 pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\2101802023\Design\CADD_Files\Sheet_Files\SHT_21018142_X03_4thW.dgn

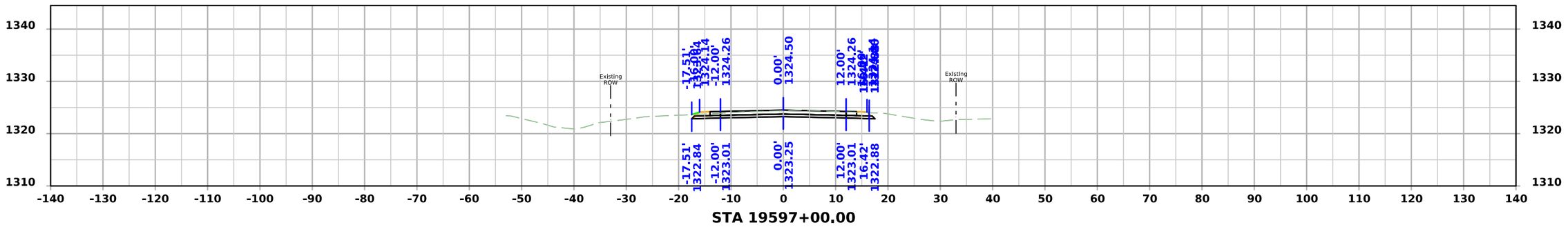
4th Ave W



STA 19598+00.00



STA 19597+50.00

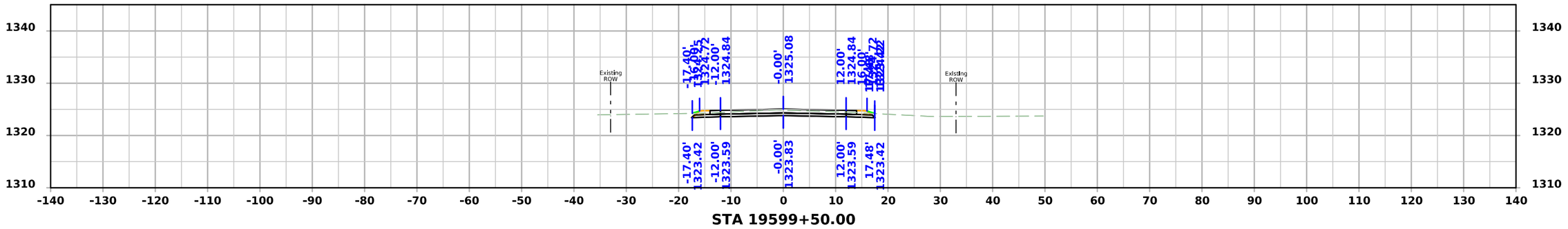


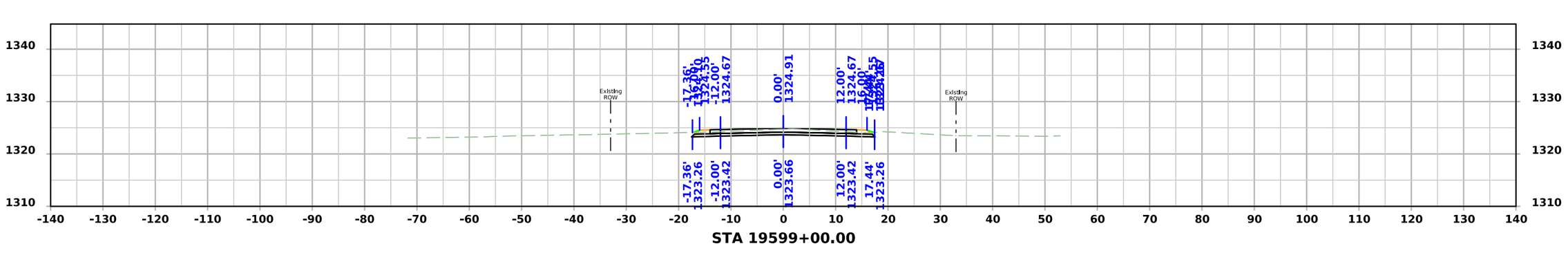
STA 19597+00.00

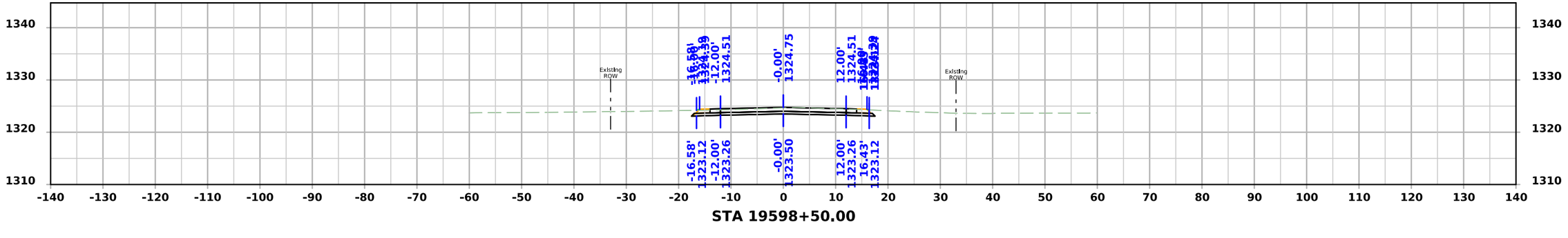
FILE NO.	ENGLISH	DESIGN TEAM Strum/Janus/Gunderson	CLAY COUNTY	PROJECT NUMBER HSIPX-018-2(142)--3L-21	SHEET NUMBER X.33

8:39:44 AM 7/2/2026 ajanus2 pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\2101802023\Design\CADD_Files\Sheet_Files\SHT_21018142_X03_4thW.dgn

4th Ave W



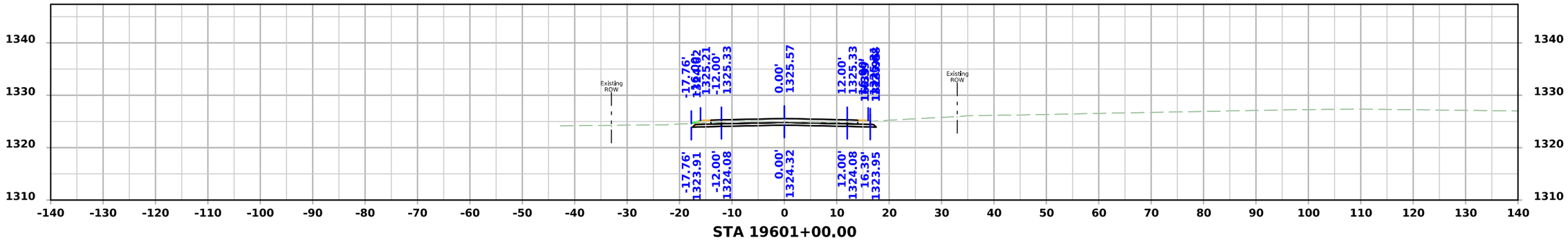


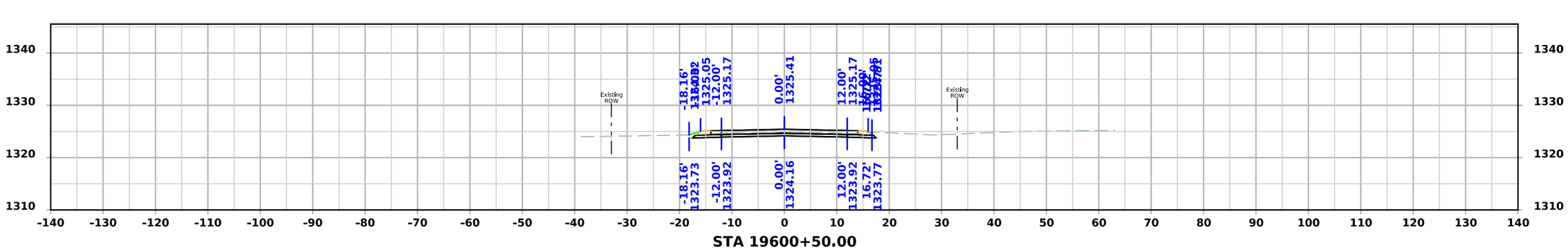


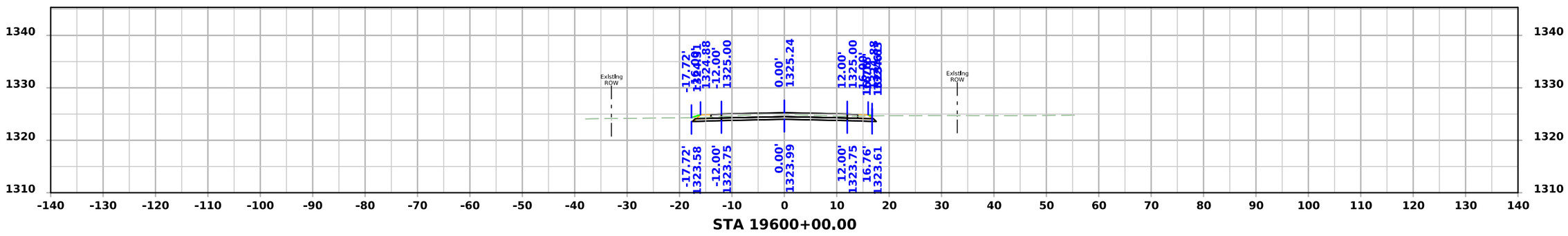
FILE NO.	ENGLISH	DESIGN TEAM Strum/Janus/Gunderson	CLAY COUNTY	PROJECT NUMBER HSIPX-018-2(142)--3L-21	SHEET NUMBER X.34

8:39:44 AM 7/2/2026 ajanus2 pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\2101802023\Design\CADD_Files\Sheet_Files\SHT_21018142_X03_4thW.dgn

4th Ave W



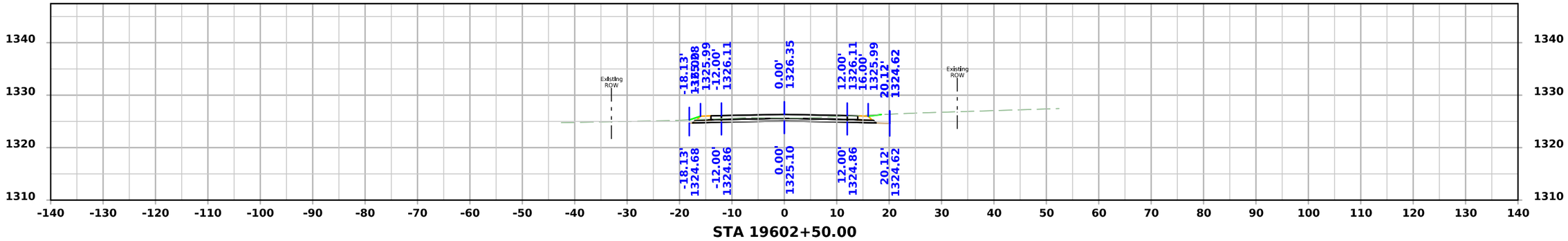




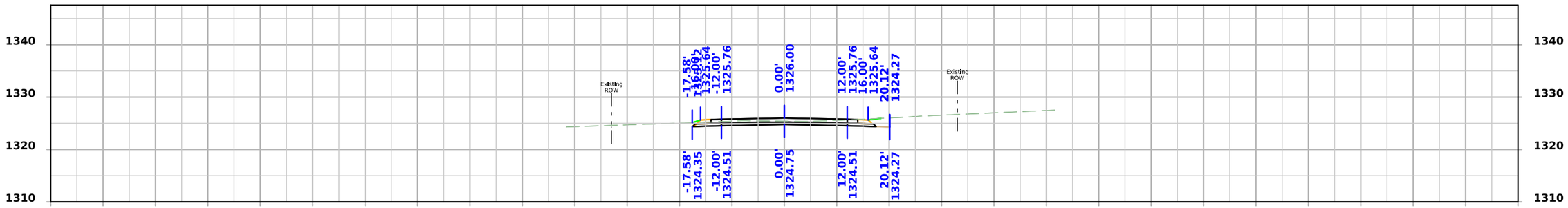
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8:39:45 AM 7/2/2026 ajanus2 pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\2101802023\Design\CADD_Files\Sheet_Files\SHT_21018142_X03_4thW.dgn

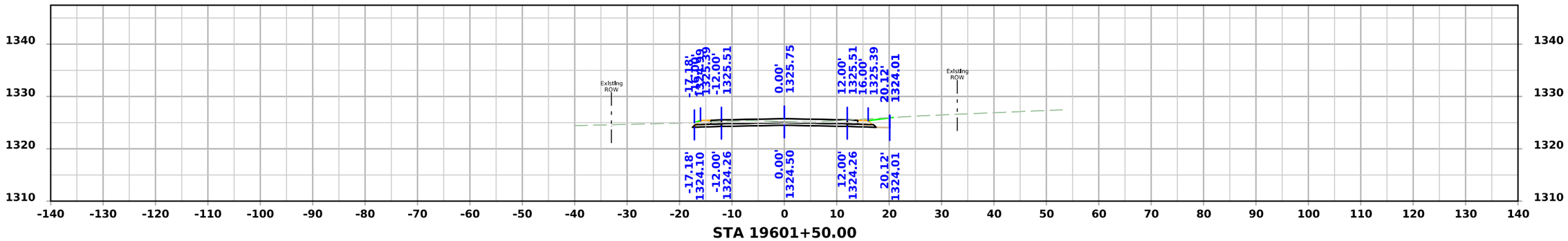
4th Ave W



STA 19602+50.00



STA 19602+00.00

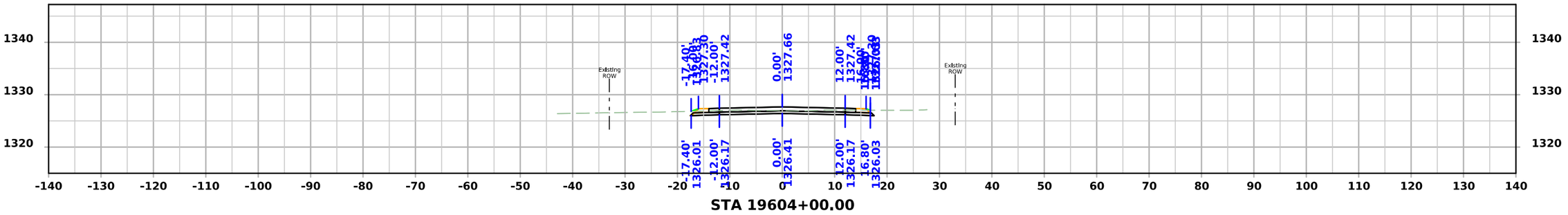


STA 19601+50.00

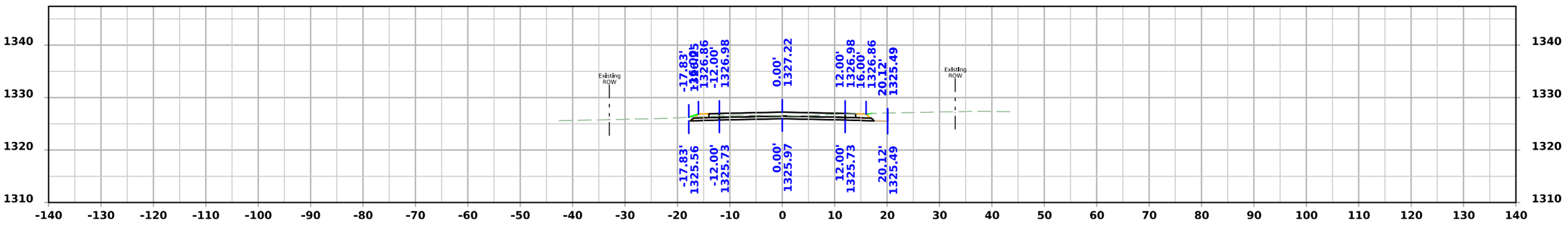
FILE NO.	ENGLISH	DESIGN TEAM Strum/Janus/Gunderson	CLAY COUNTY	PROJECT NUMBER HSIPX-018-2(142)--3L-21	SHEET NUMBER X.36

8:39:45 AM 7/2/2026 ajanus2 pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\2101802023\Design\CADD_Files\Sheet_Files\SHT_21018142_X03_4thW.dgn

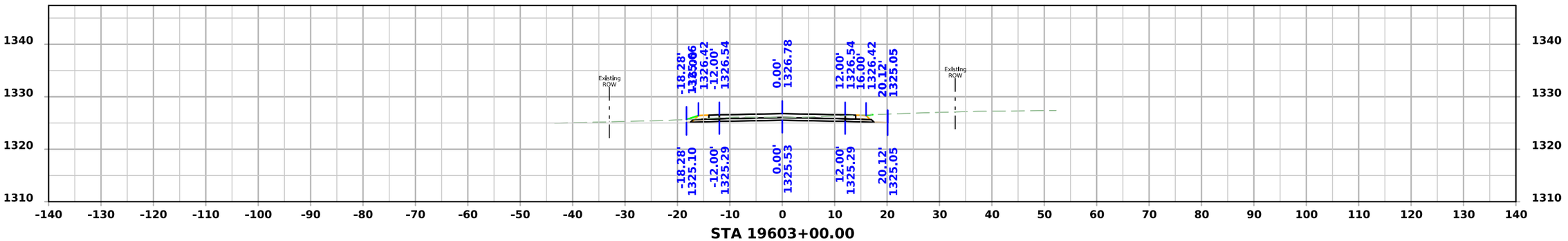
4th Ave W



STA 19604+00.00



STA 19603+50.00

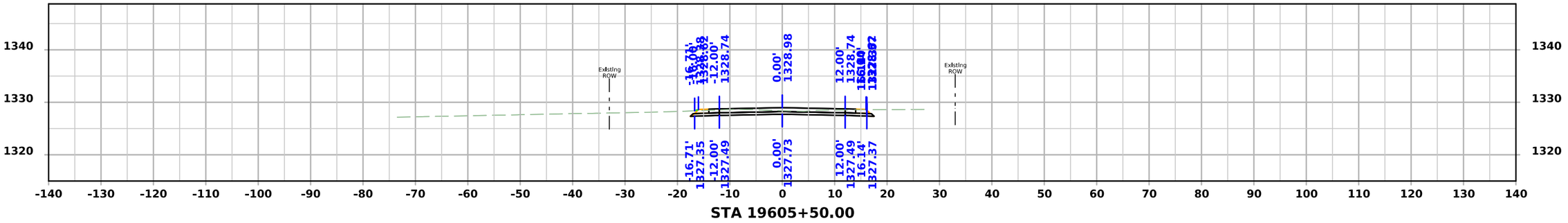


STA 19603+00.00

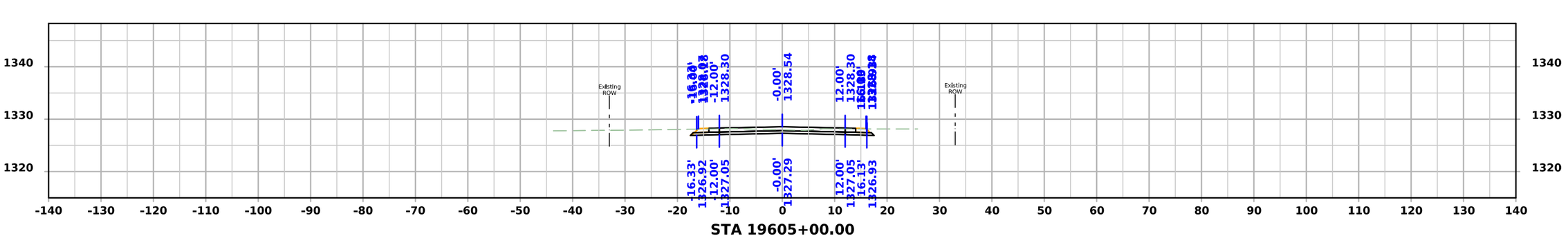
FILE NO.	ENGLISH	DESIGN TEAM Strum/Janus/Gunderson	CLAY COUNTY	PROJECT NUMBER HSIPX-018-2(142)--3L-21	SHEET NUMBER X.37

8:39:46 AM 7/2/2026 ajanus2 pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\2101802023\Design\CADD_Files\Sheet_Files\SHT_21018142_X03_4thW.dgn

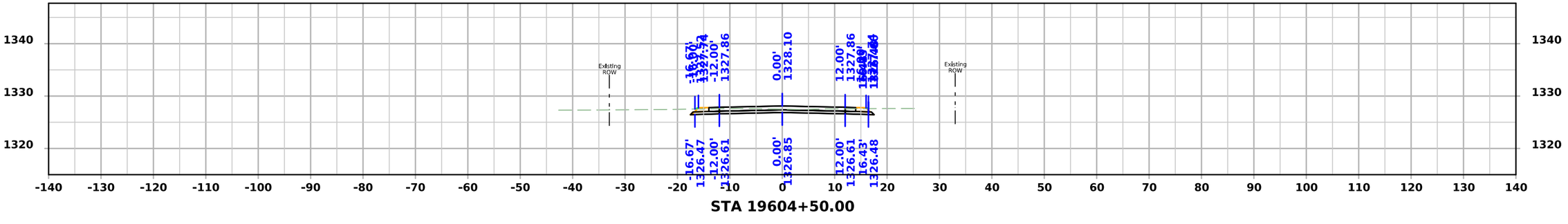
4th Ave W



STA 19605+50.00



STA 19605+00.00

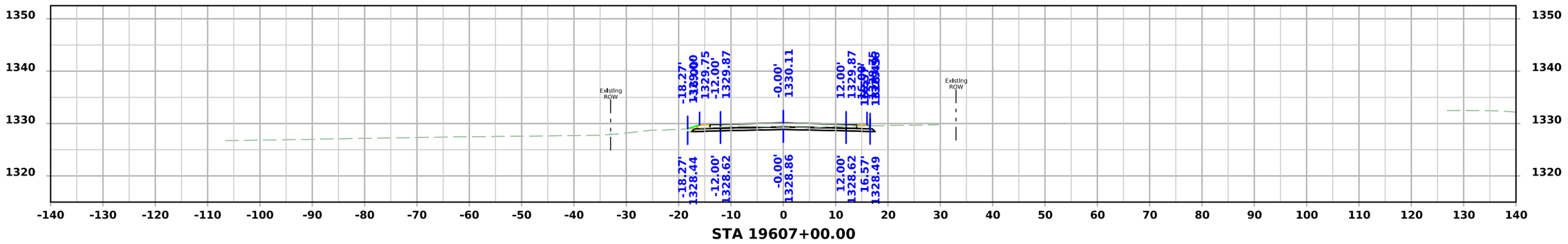


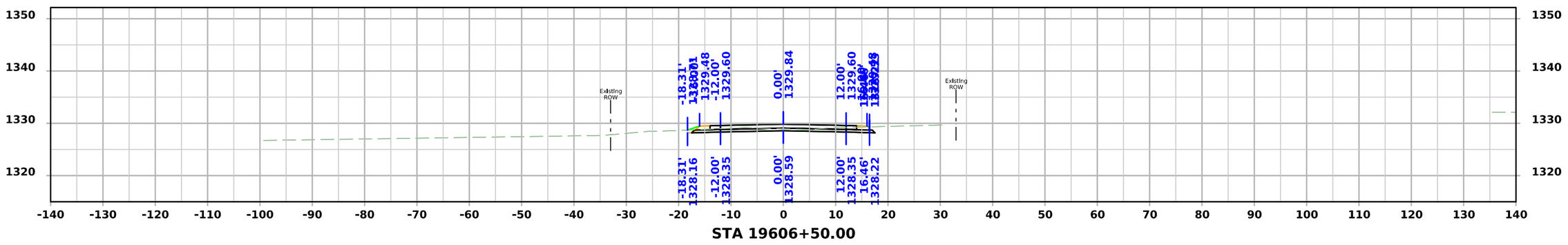
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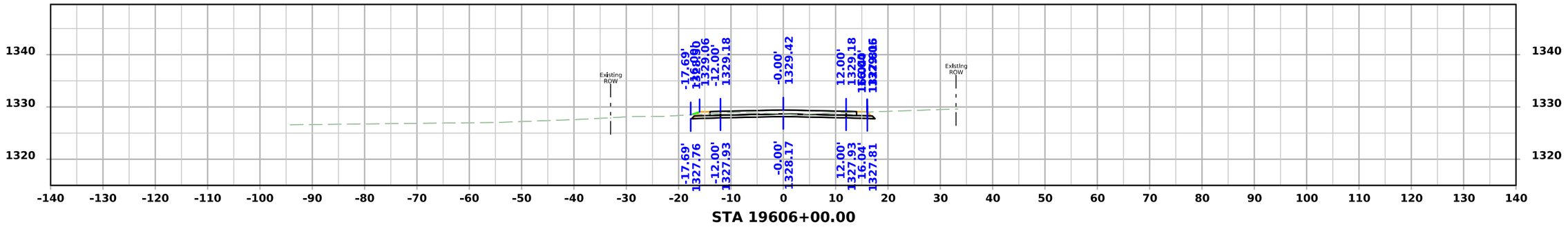
FILE NO.	ENGLISH	DESIGN TEAM Strum/Janus/Gunderson	CLAY COUNTY	PROJECT NUMBER HSIPX-018-2(142)--3L-21	SHEET NUMBER X.38

8:39:47 AM 7/2/2026 ajanus2 pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\2101802023\Design\CADD_Files\Sheet_Files\SHT_21018142_X03_4thW.dgn

4th Ave W



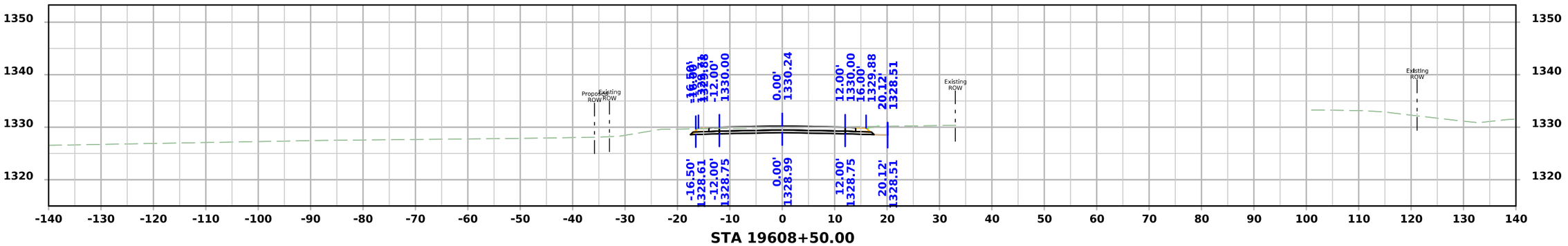




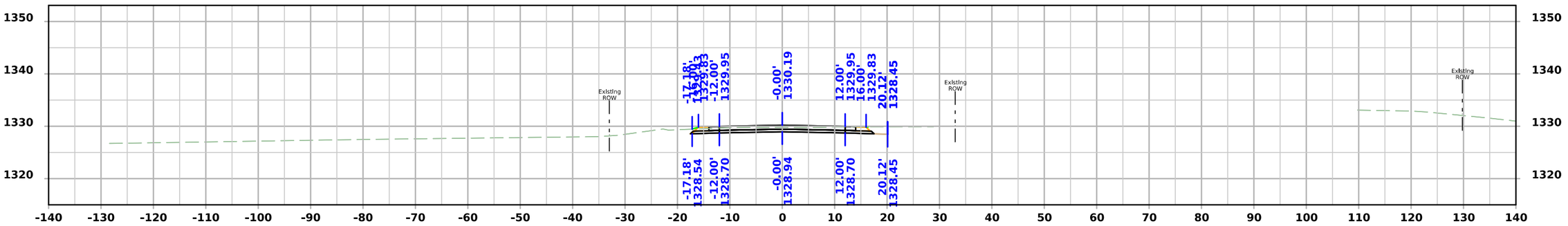
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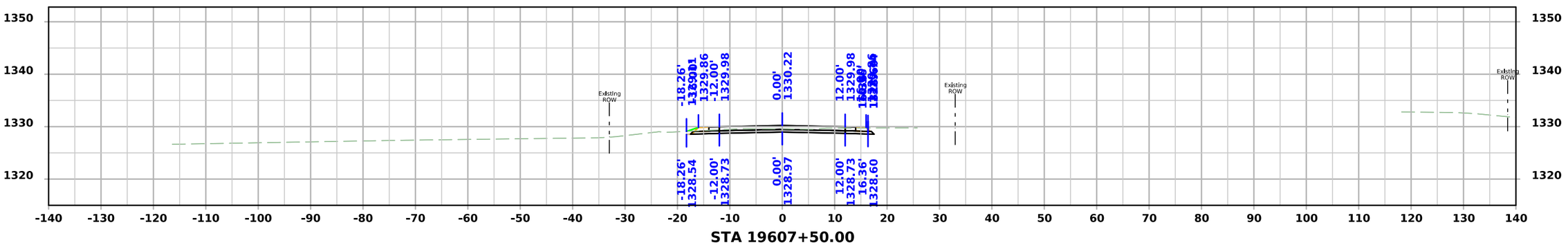
4th Ave W



STA 19608+50.00



STA 19608+00.00

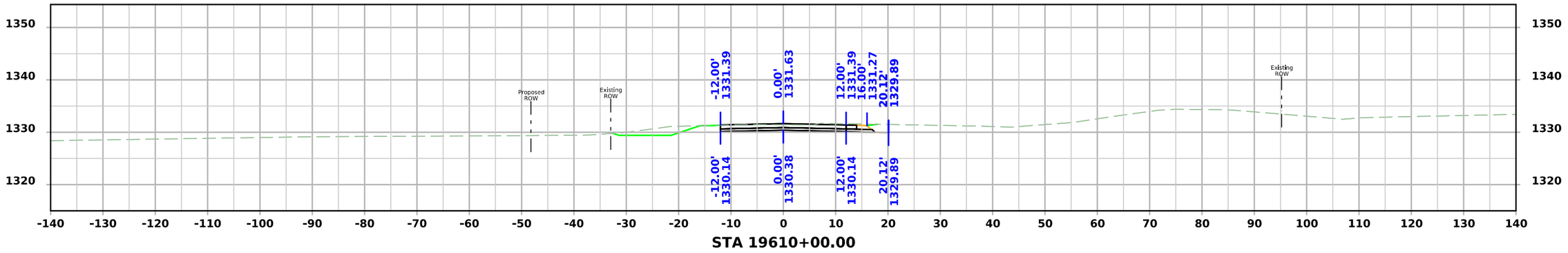


STA 19607+50.00

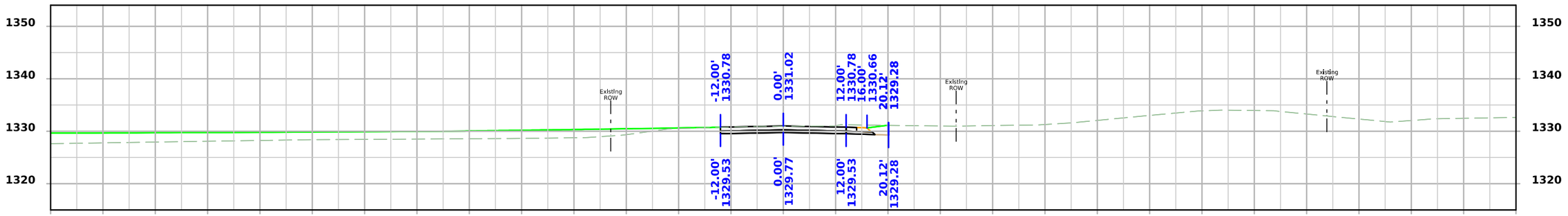
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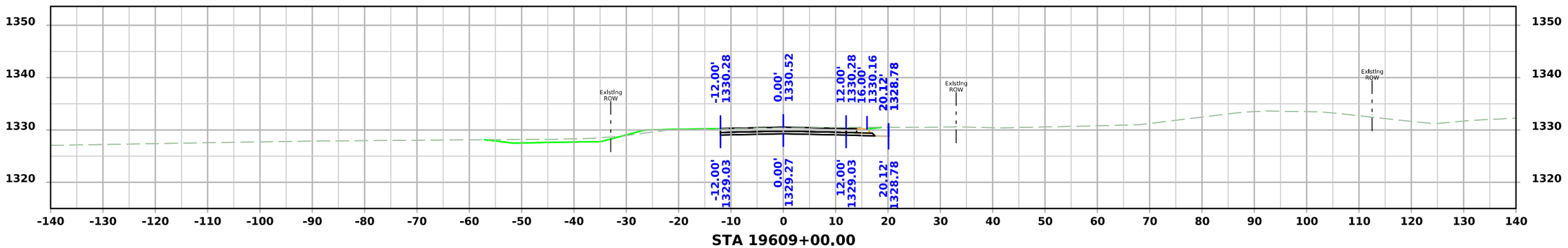
4th Ave W



STA 19610+00.00



STA 19609+50.00

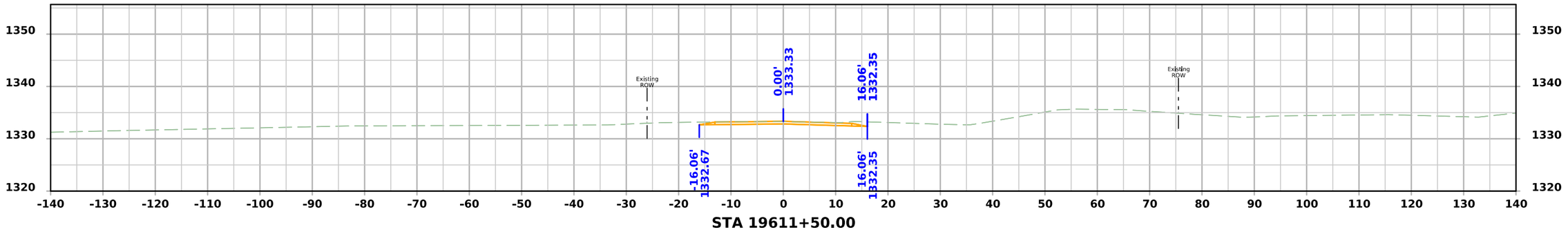


STA 19609+00.00

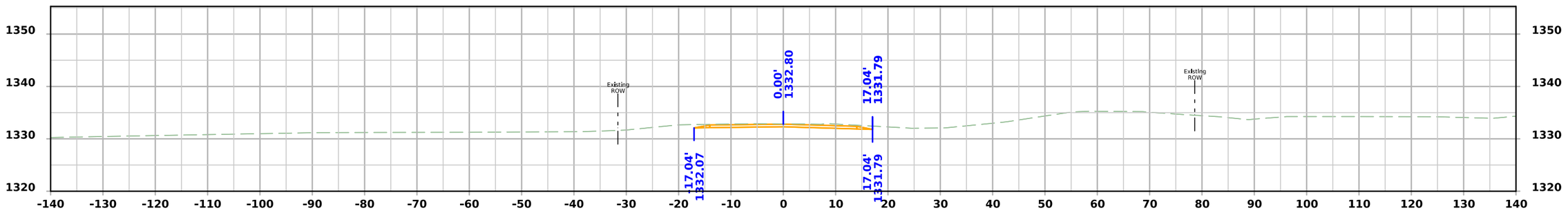
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8:39:48 AM 7/2/2026 ajanus2 pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\2101802023\Design\CADD_Files\Sheet_Files\SHT_21018142_X03_4thW.dgn

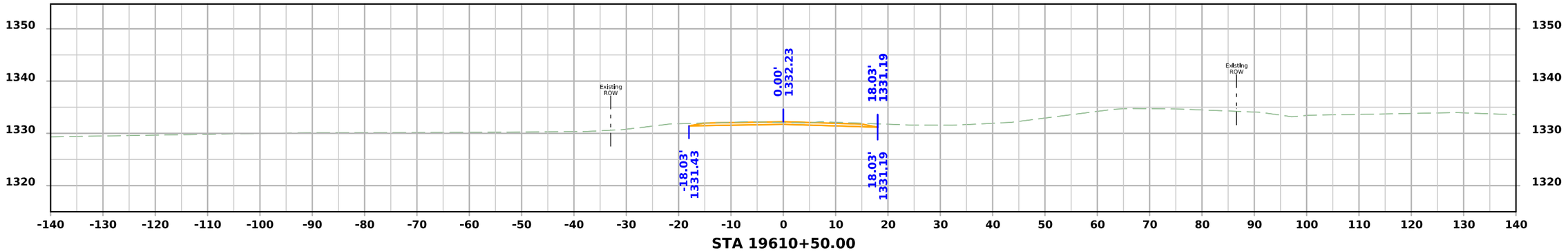
4th Ave W



STA 19611+50.00



STA 19611+00.00

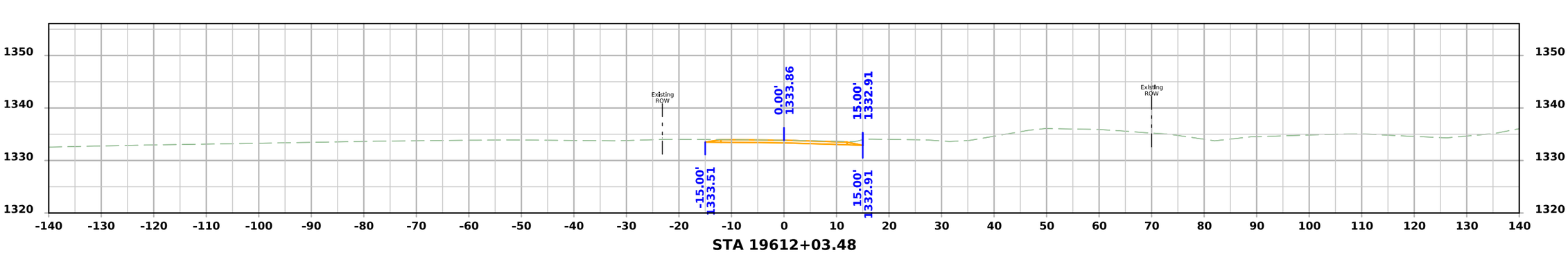


STA 19610+50.00

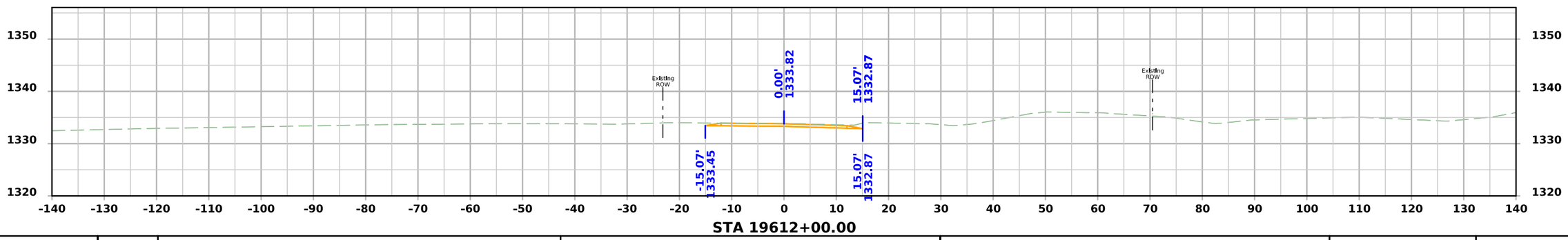
FILE NO.	ENGLISH	DESIGN TEAM Strum/Janus/Gunderson	CLAY COUNTY	PROJECT NUMBER HSIPX-018-2(142)--3L-21	SHEET NUMBER X.42

8:39:49 AM 7/2/2026 ajanus2 pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\2101802023\Design\CADD_Files\Sheet_Files\SHT_21018142_X03_4thW.dgn

4th Ave W



STA 19612+03.48

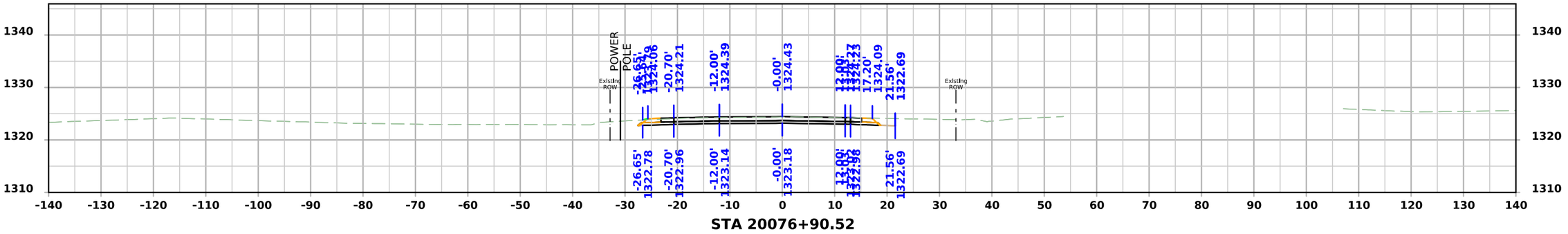


STA 19612+00.00

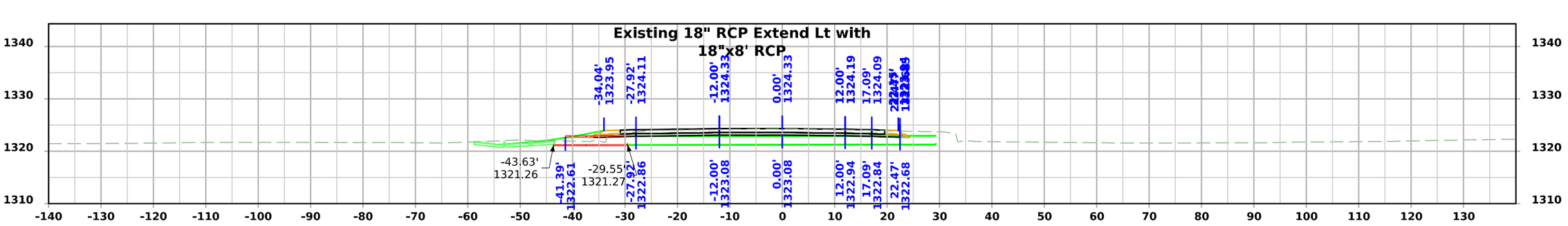
FILE NO.	ENGLISH	DESIGN TEAM Strum/Janus	CLAY COUNTY	PROJECT NUMBER HSIPX-018-2(142)--3H-21	SHEET NUMBER X.43

8:39:49 AM 7/2/2026 ajanus2 pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\2101802023\Design\CADD_Files\Sheet_Files\SHT_21018142_X03_4thW.dgn

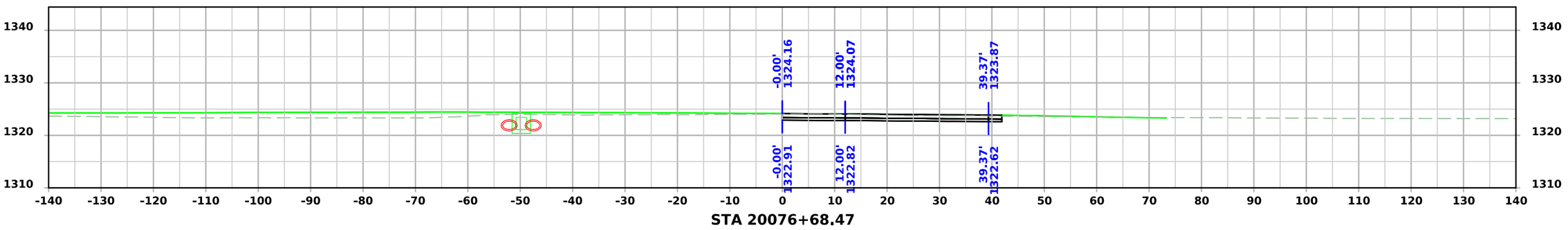
W 37th St



STA 20076+90.52



STA 20076+81.80

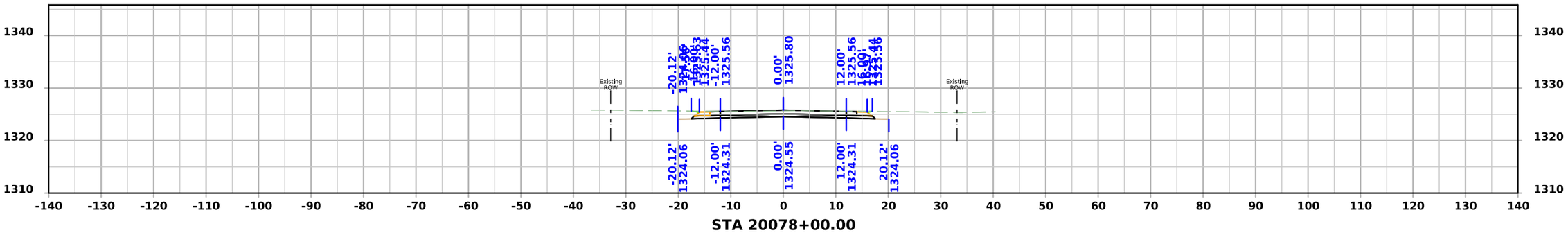


STA 20076+68.47

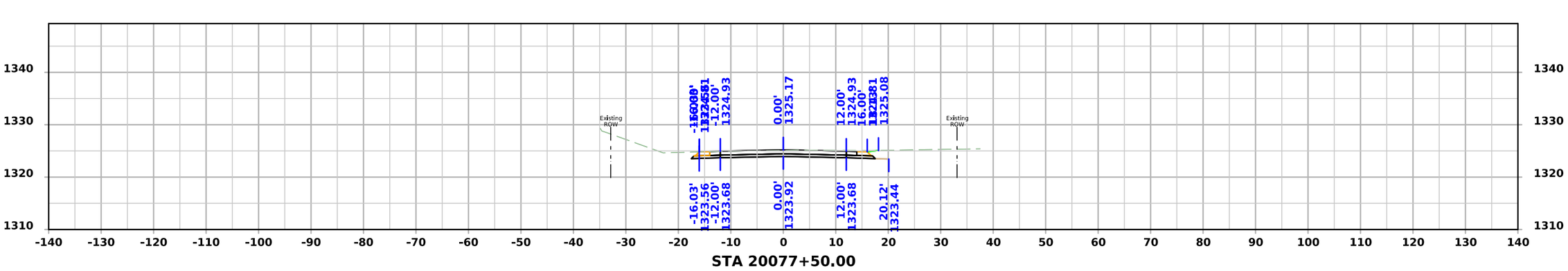
FILE NO.	ENGLISH	DESIGN TEAM Strum/Janus/Gunderson	CLAY COUNTY	PROJECT NUMBER HSIPX-018-2(142)--3L-21	SHEET NUMBER X.44

8:39:54 AM 7/2/2026 ajanus2 pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\2101802023\Design\CADD_Files\Sheet_Files\SHT_21018142_X04_W37th.dgn

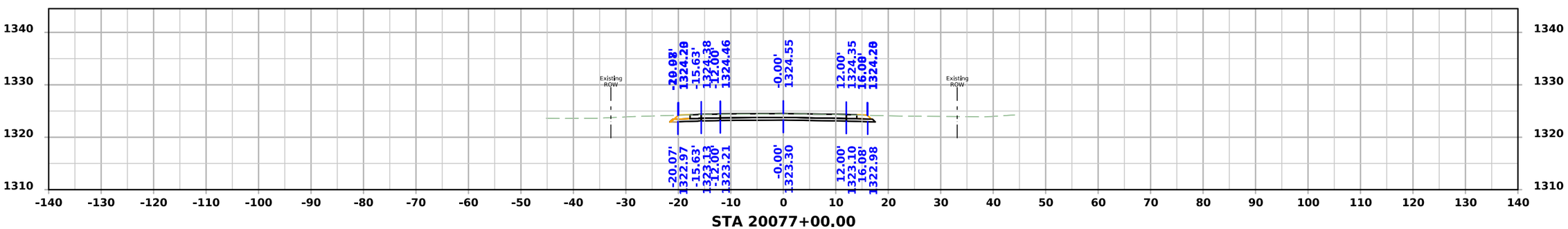
W 37th St



STA 20078+00.00



STA 20077+50.00

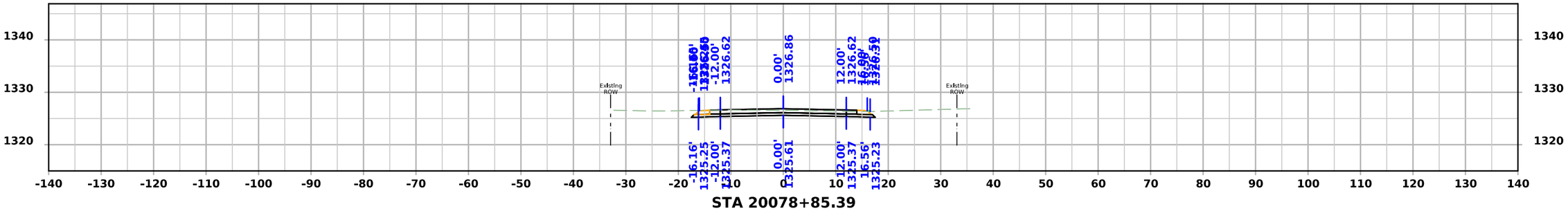


STA 20077+00.00

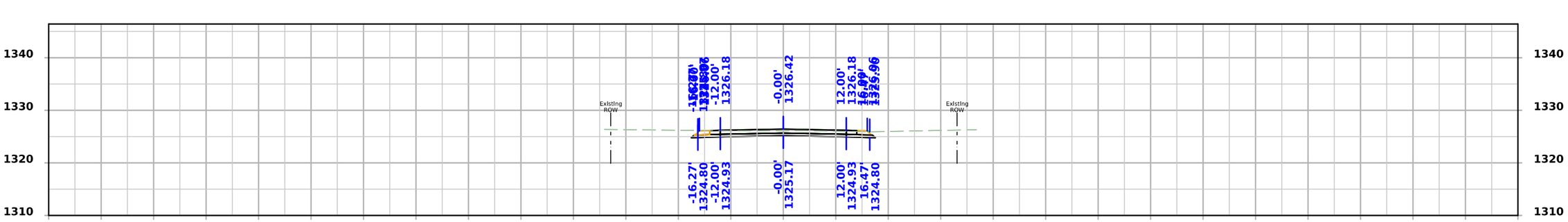
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8:39:55 AM 7/2/2026 ajanus2 pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\2101802023\Design\CADD_Files\Sheet_Files\SHT_21018142_X04_W37th.dgn

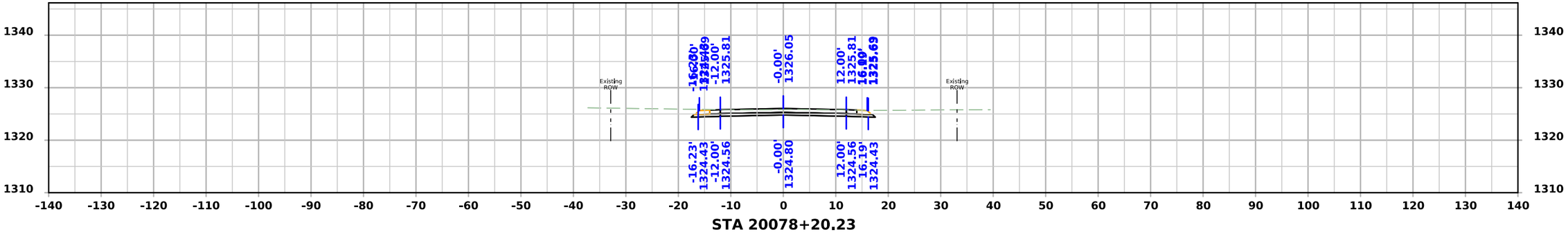
W 37th St



STA 20078+85.39



STA 20078+50.00

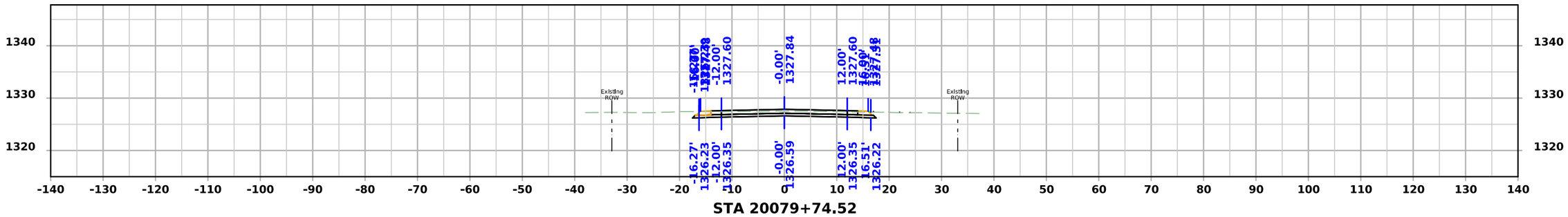


STA 20078+20.23

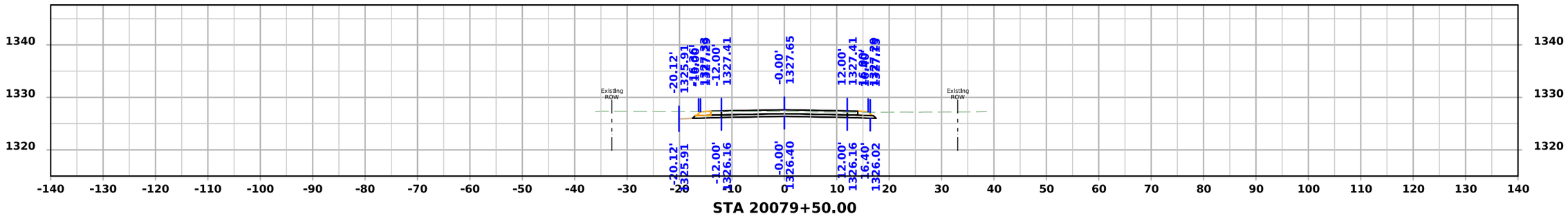
FILE NO.	ENGLISH	DESIGN TEAM Strum/Janus/Gunderson	CLAY COUNTY	PROJECT NUMBER HSIPX-018-2(142)--3L-21	SHEET NUMBER X.46

8:39:56 AM 7/2/2026 ajanus2 pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\2101802023\Design\CADD_Files\Sheet_Files\SHT_21018142_X04_W37th.dgn

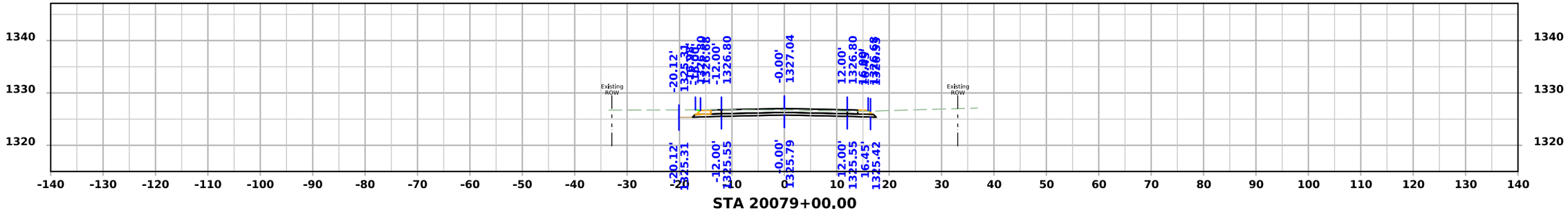
W 37th St



STA 20079+74.52



STA 20079+50.00

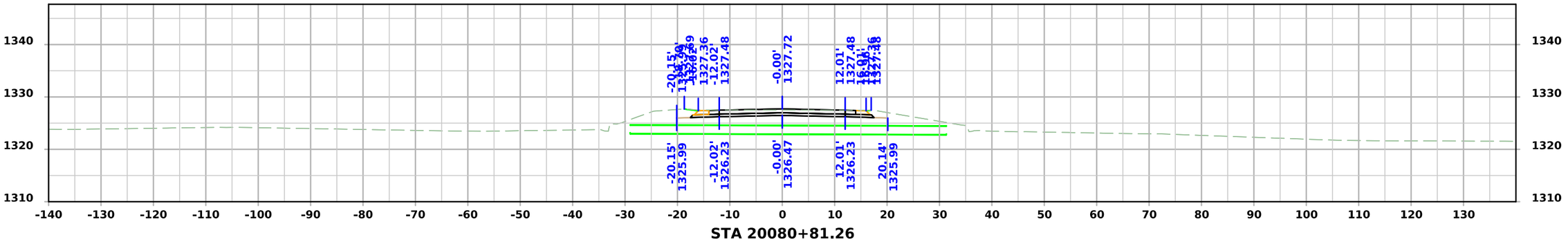


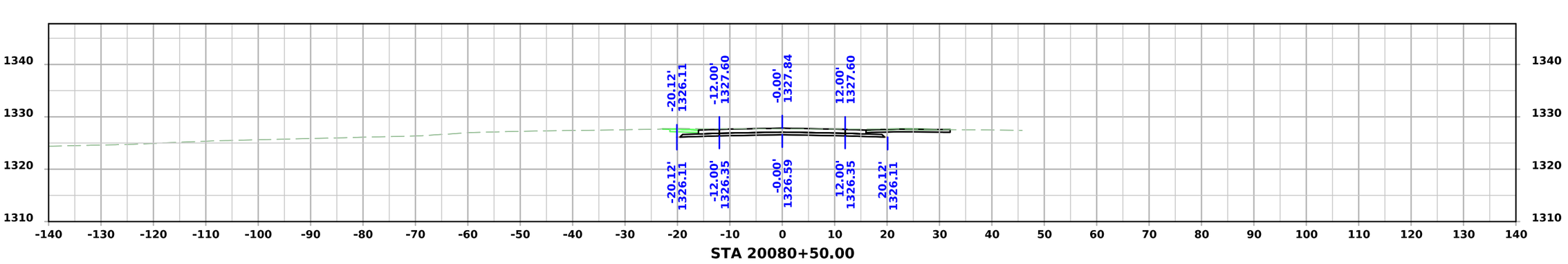
STA 20079+00.00

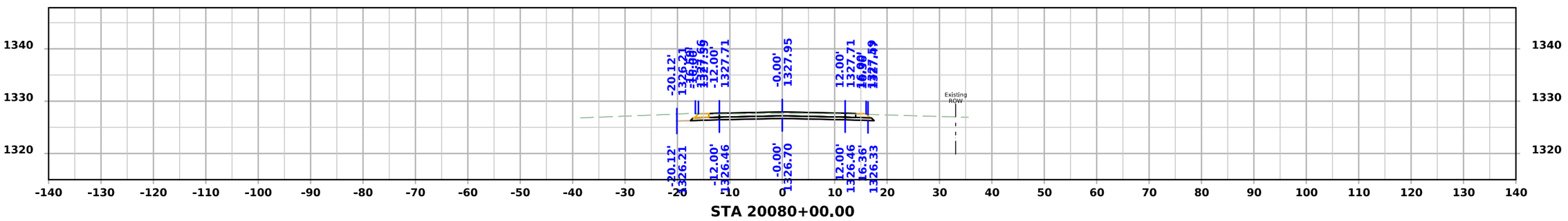
FILE NO.	ENGLISH	DESIGN TEAM Strum/Janus/Gunderson	CLAY COUNTY	PROJECT NUMBER HSIPX-018-2(142)--3L-21	SHEET NUMBER X.47

8:39:56 AM 7/2/2026 ajanus2 pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\2101802023\Design\CADD_Files\Sheet_Files\SHT_21018142_X04_W37th.dgn

W 37th St



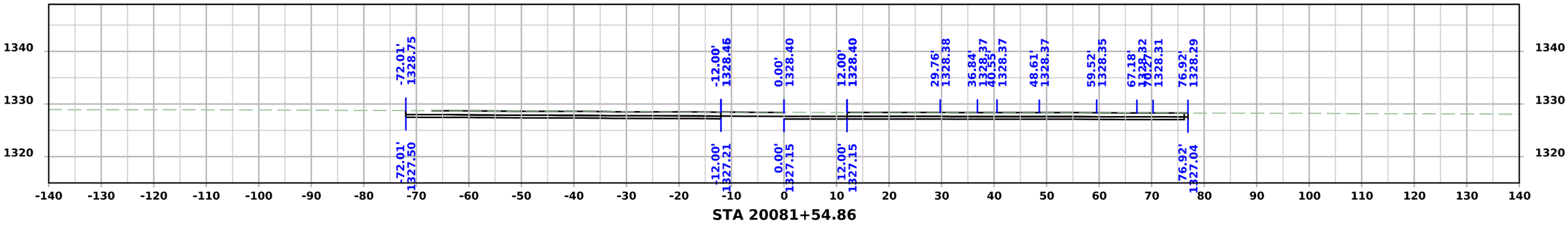




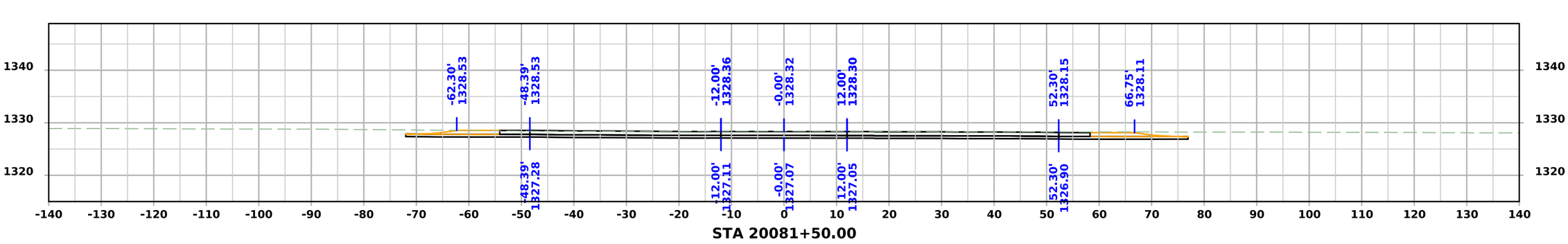
FILE NO.	ENGLISH	DESIGN TEAM Strum/Janus/Gunderson	CLAY COUNTY	PROJECT NUMBER HSIPX-018-2(142)--3L-21	SHEET NUMBER X.48

8:39:57 AM 7/2/2026 ajanus2 pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\2101802023\Design\CADD_Files\Sheet_Files\SHT_21018142_X04_W37th.dgn

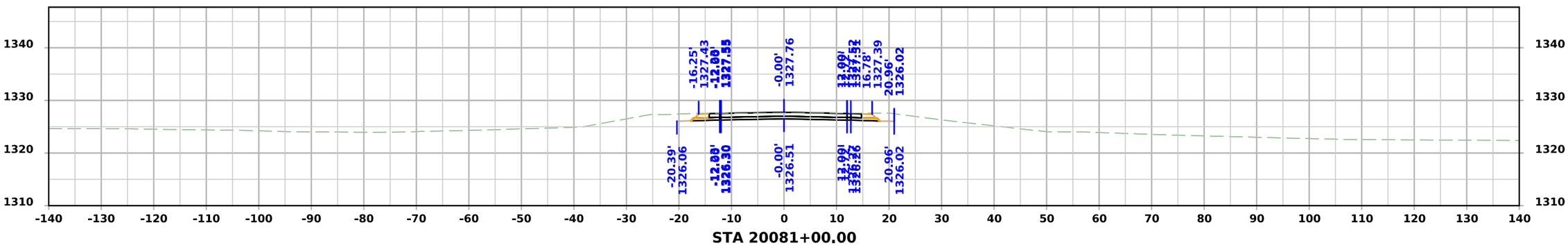
W 37th St



STA 20081+54.86



STA 20081+50.00

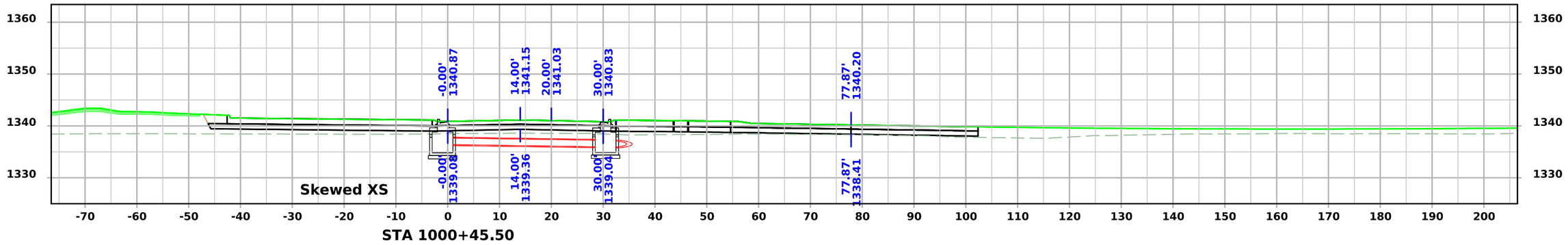


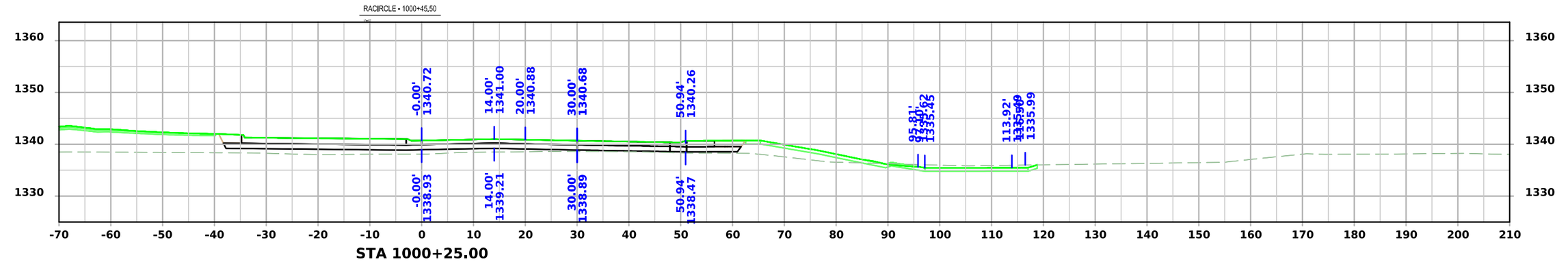
STA 20081+00.00

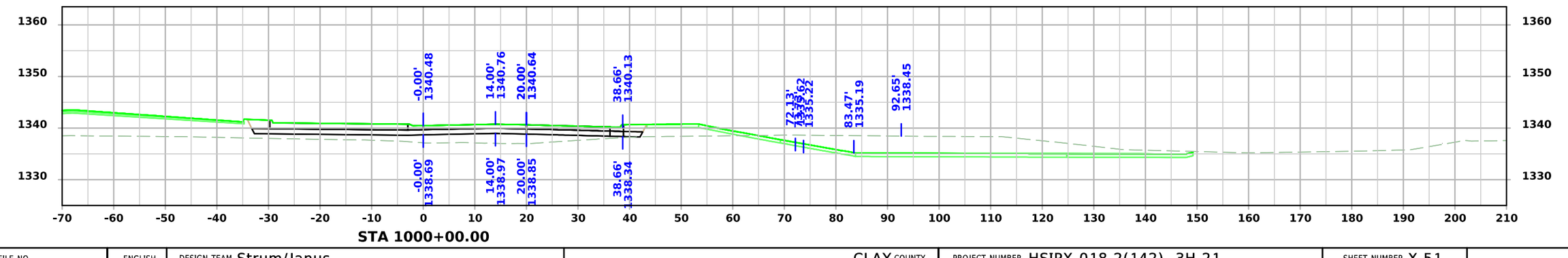
FILE NO.	ENGLISH	DESIGN TEAM Strum/Janus	CLAY COUNTY	PROJECT NUMBER HSIPX-018-2(142)--3H-21	SHEET NUMBER X.49

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RACIRCLE



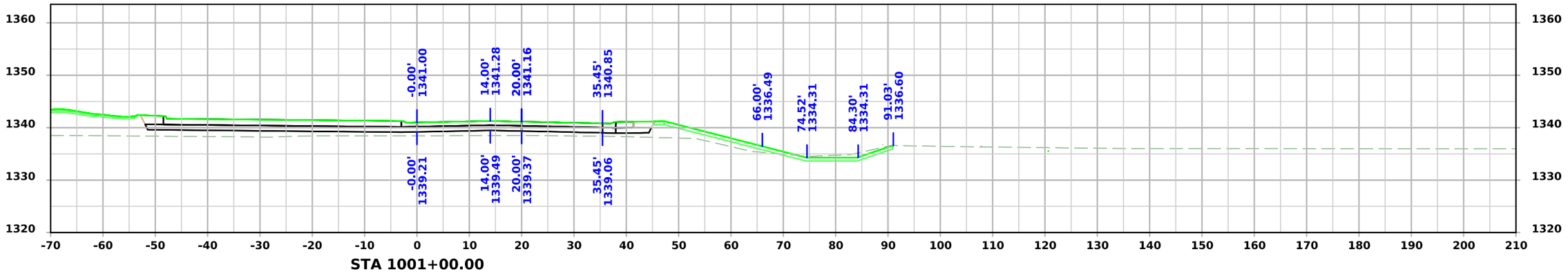




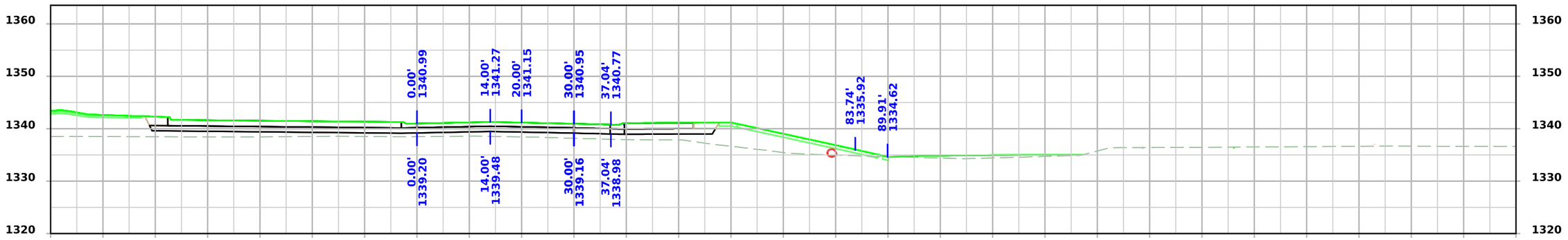
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8:40:06 AM 7/2/2026 ajanus2 pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\2101802023\Design\CADD_Files\Sheet_Files\SHT_21018142_X05.dgn

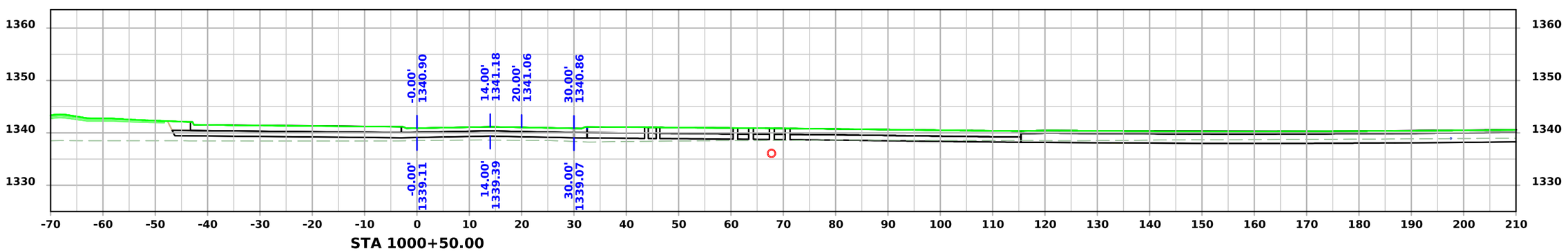
RACIRCLE



STA 1001+00.00



STA 1000+75.00

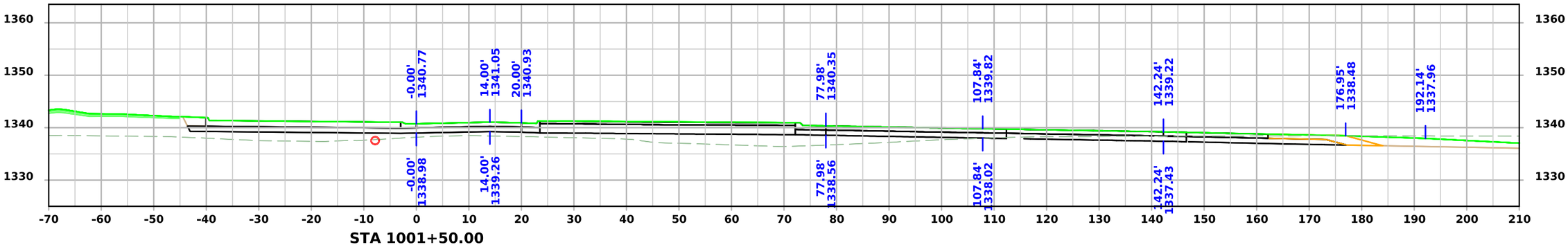


STA 1000+50.00

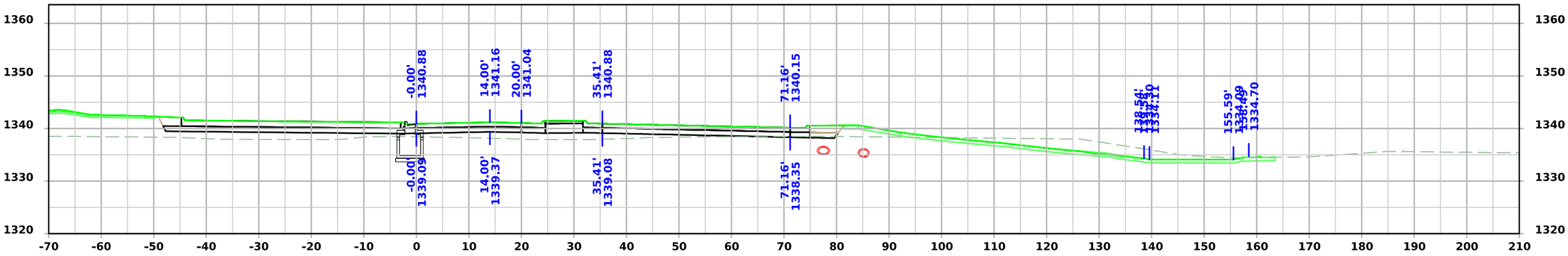
FILE NO.	ENGLISH	DESIGN TEAM Strum/Janus	CLAY COUNTY	PROJECT NUMBER HSIPX-018-2(142)--3H-21	SHEET NUMBER X.52

8:40:09 AM 7/2/2026 ajanus2 pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\2101802023\Design\CADD_Files\Sheet_Files\SHT_21018142_X05.dgn

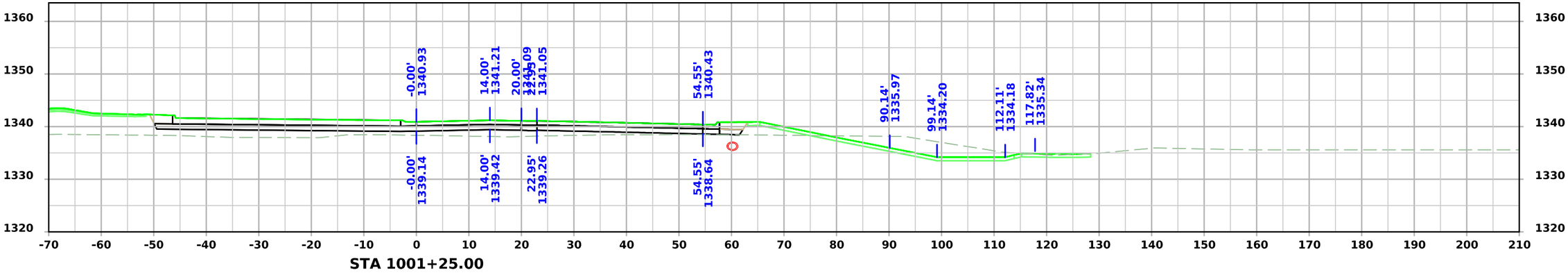
RACIRCLE



STA 1001+50.00



STA 1001+34.16

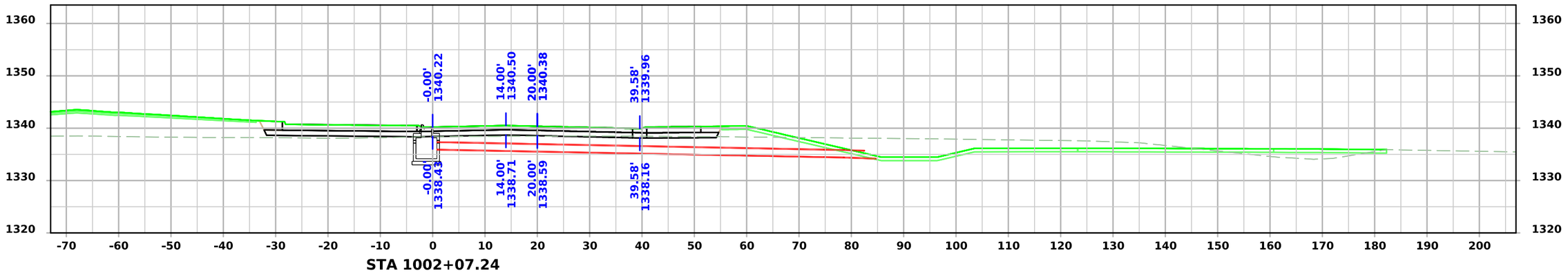


STA 1001+25.00

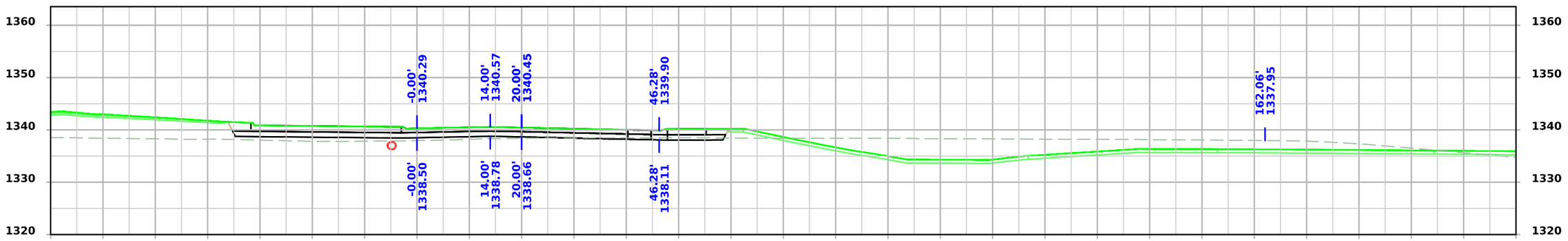
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8:40:12 AM 7/2/2026 ajanus2 pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\2101802023\Design\CADD_Files\Sheet_Files\SHT_21018142_X05.dgn

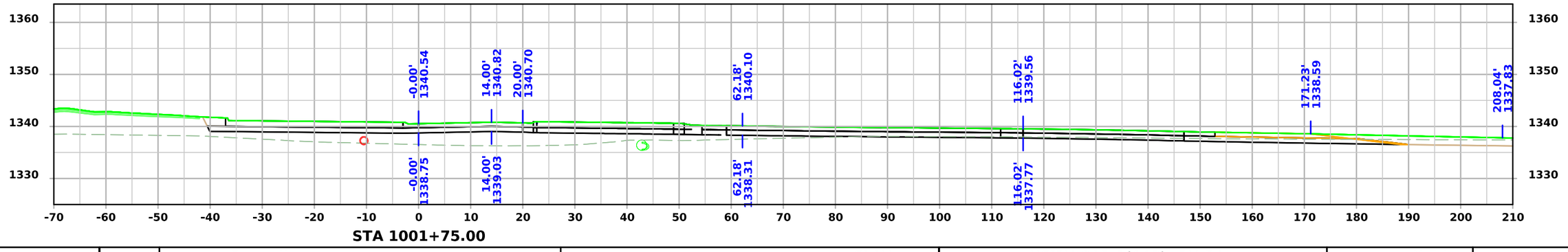
RACIRCLE



STA 1002+07.24



STA 1002+00.00

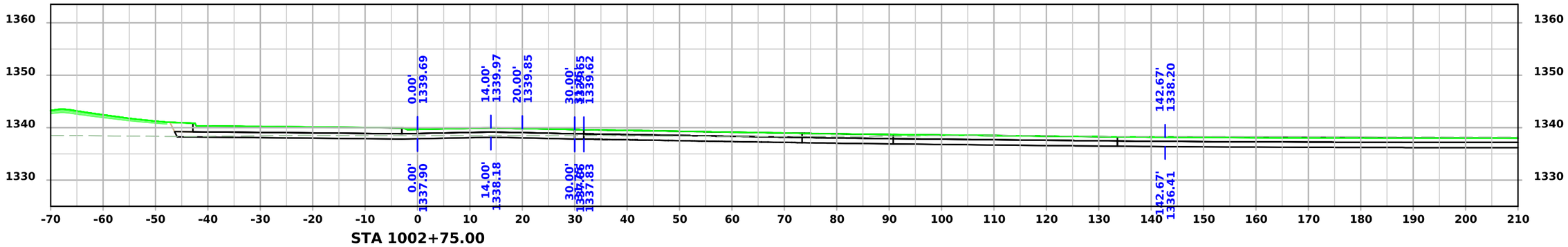


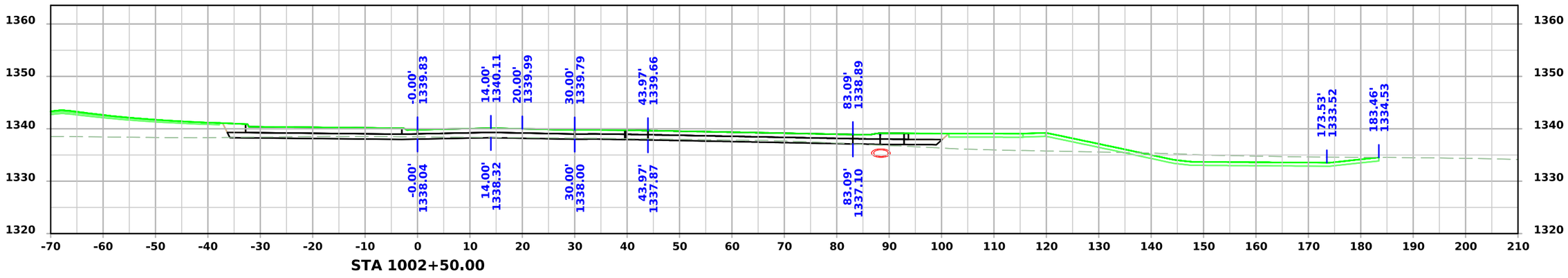
STA 1001+75.00

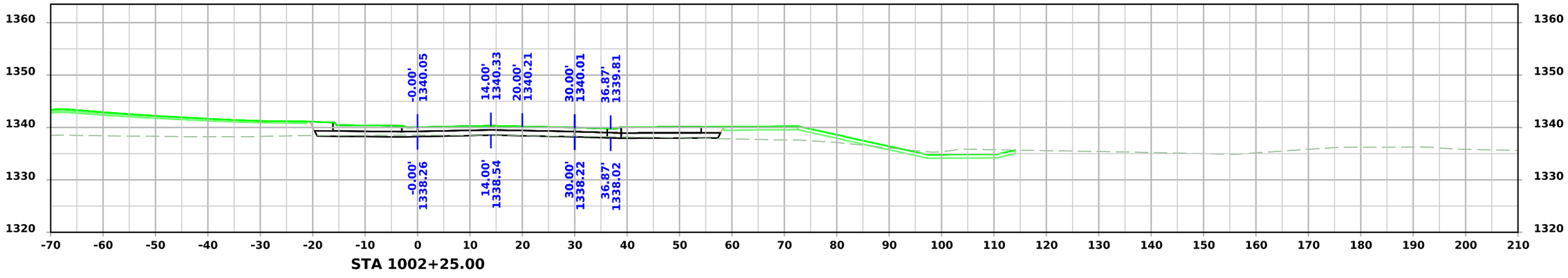
FILE NO.	ENGLISH	DESIGN TEAM Strum/Janus	CLAY COUNTY	PROJECT NUMBER HSIPX-018-2(142)--3H-21	SHEET NUMBER X.54

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RACIRCLE



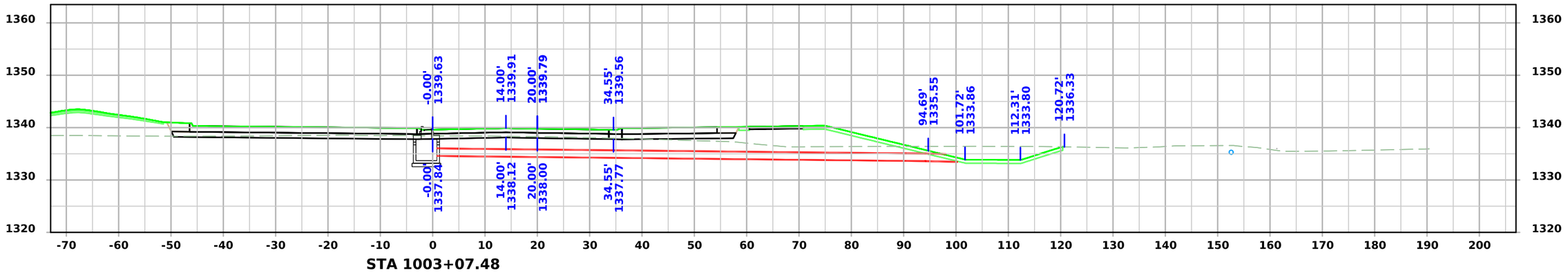




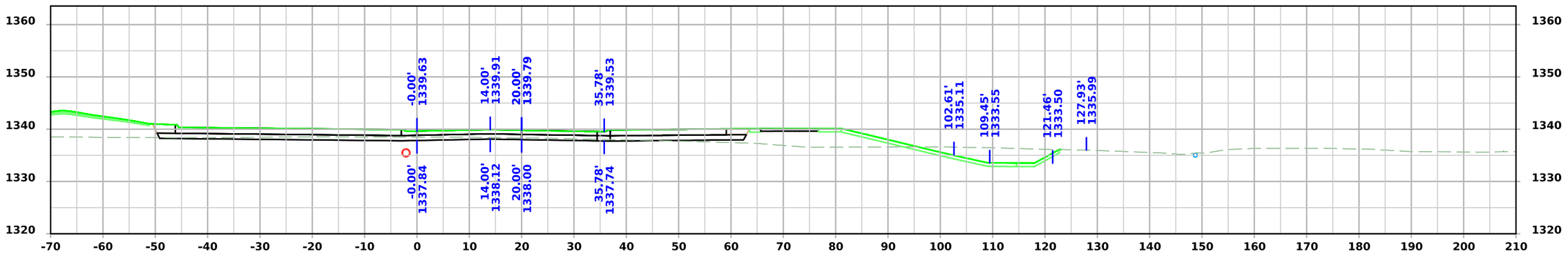
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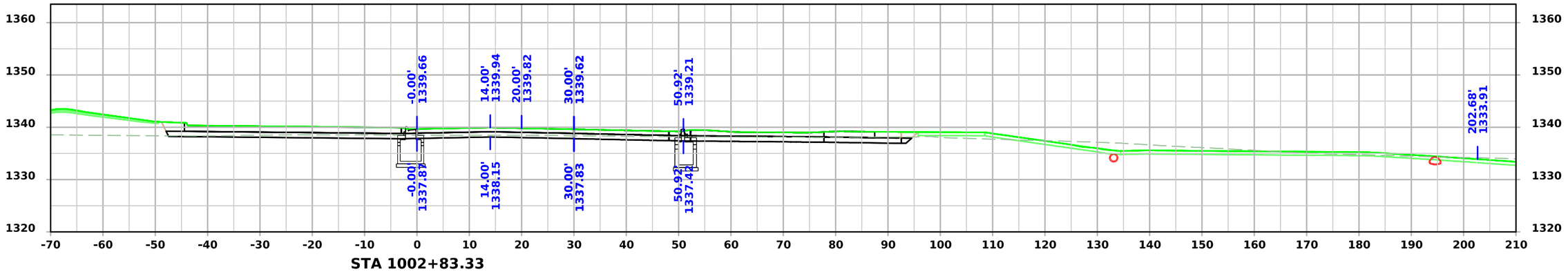
RACIRCLE



STA 1003+07.48



STA 1003+00.00

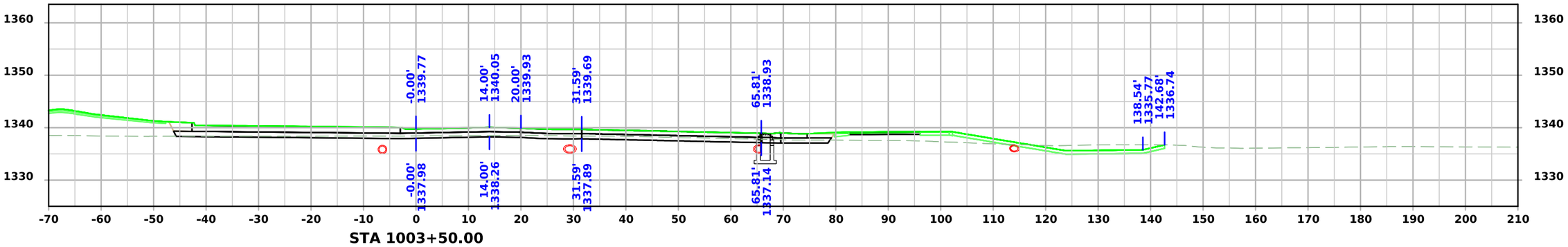


STA 1002+83.33

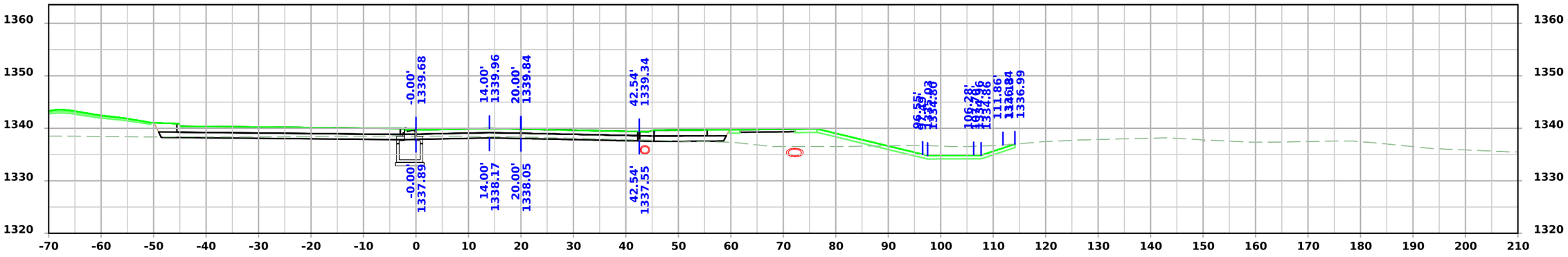
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8:40:17 AM 7/2/2026 ajanus2 pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\2101802023\Design\CADD_Files\Sheet_Files\SHT_21018142_X05.dgn

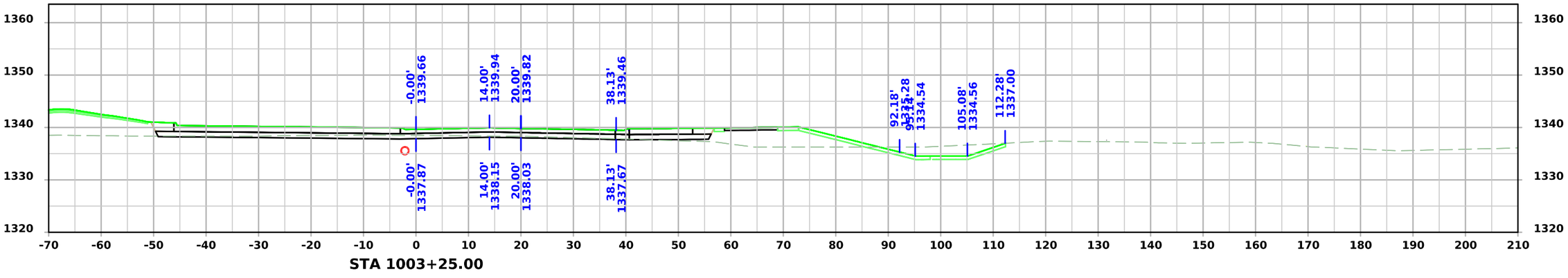
RACIRCLE



STA 1003+50.00



STA 1003+32.16

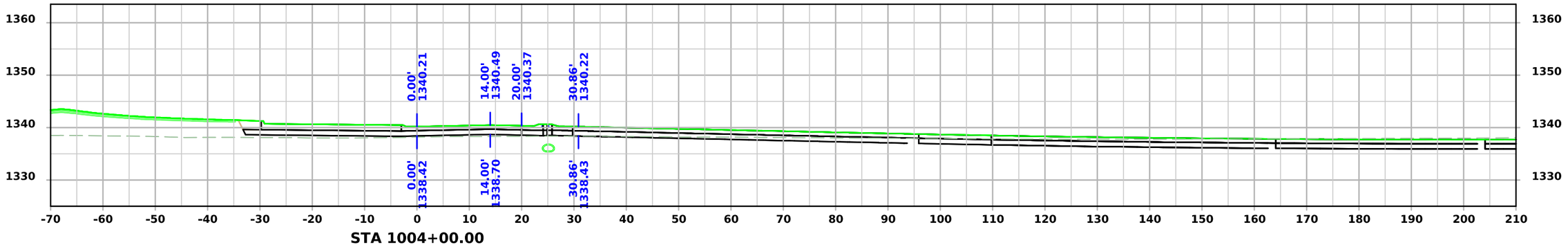


STA 1003+25.00

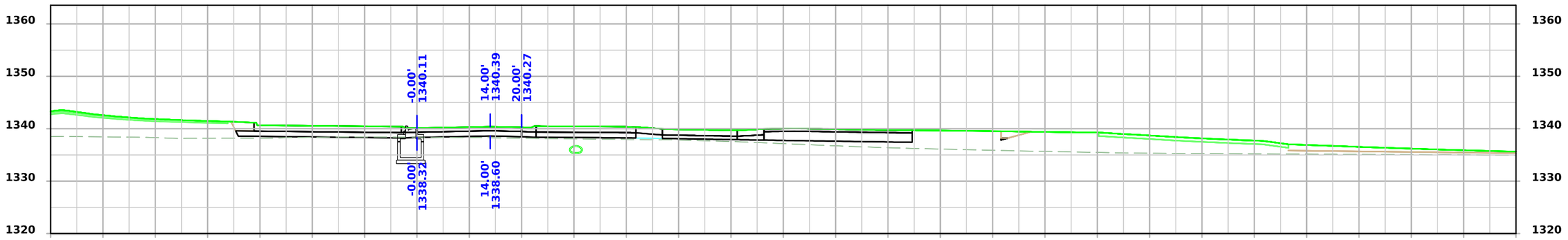
FILE NO.	ENGLISH	DESIGN TEAM Strum/Janus	CLAY COUNTY	PROJECT NUMBER HSIPX-018-2(142)--3H-21	SHEET NUMBER X.57

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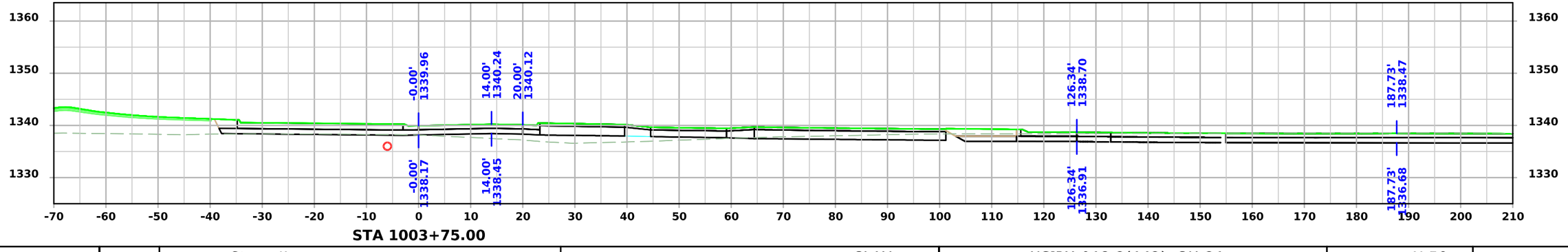
RACIRCLE



STA 1004+00.00



STA 1003+90.42

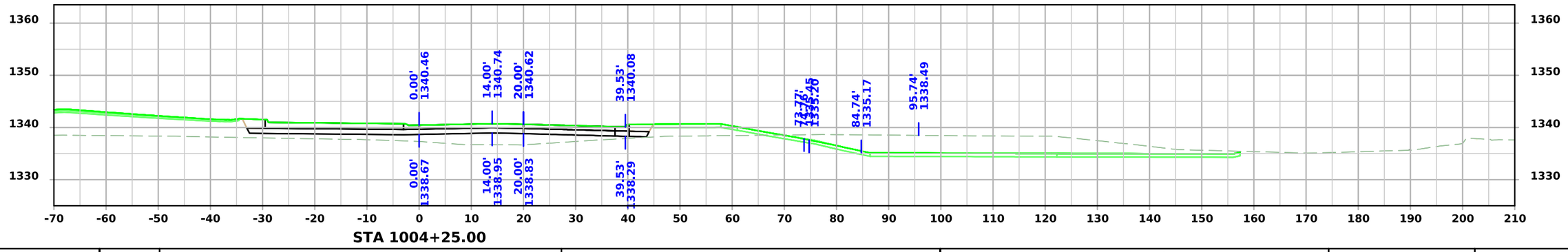


STA 1003+75.00

FILE NO.	ENGLISH	DESIGN TEAM Strum/Janus	CLAY COUNTY	PROJECT NUMBER HSIPX-018-2(142)--3H-21	SHEET NUMBER X.58

8:40:22 AM 7/2/2026 ajanus2 pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\2101802023\Design\CADD_Files\Sheet_Files\SHT_21018142_X05.dgn

RACIRCLE



FILE NO.	ENGLISH	DESIGN TEAM Strum/Janus	CLAY COUNTY	PROJECT NUMBER HSIPX-018-2(142)--3H-21	SHEET NUMBER X.59

8:40:24 AM 7/2/2026 ajanus2 pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\2101802023\Design\CADD_Files\Sheet_Files\SHT_21018142_X05.dgn