PRELIMINARY ENGINEERING
LETTING DATE
IM-029-3(166)54--13-78
POTTAWATTAMIE CO.

IOWA DOT

Highway Division

PLANS OF PROPOSED IMPROVEMENT ON THE

INTERSTATE ROAD SYSTEM

POTTAWATTAMIE COUNTY

PRELIMINARY ENGINEERING

I-29 in Council Bluffs from N of UP RR to 0.7 mi N of Ave G and I-480 from E of Missouri River to I-29

SCALES: As Noted

Refer to the Proposal Form for list of applicable specifications.

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

REVISIONS

TOTAL
794
PROJECT IDENTIFICATION NUMBER
04-78-029-010-04
PROJECT NUMBER
IM-029-3(166)54--13-78
R.O.W. PROJECT NUMBER
IMN-029-3(168)53--0E-78

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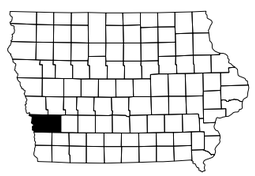
1-800-292-8989
www.iowaonecall.com
811 Know what's below. Call before you dig.

For Index Sheets Refer to Sheet A.2

For Project Location Map Refer to Sheet A.3

MILEAGE SUMMARY

LOCATION		LIN. FT.	MILES
Urban:			
I-29	505+00.00 TO 605+00.00	10,000.00	
Omit Bridge	516+98.00	105.00	
Omit Bridge	538+83.17	203.99	
Omit Bridge	546+77.52	239.00	
Omit Bridge	569+99.11	239.04	
Total I-29		9,215.57	1.745
Total I-480	105+60.40 TO 110+00.00	439.60	0.083
NB I-29 to WB I-480	8529+30.00 TO 8569+41.42	4,011.42	
Omit Bridge	8535+21.00	2,218.00	
Omit Bridge	8557+39.00	269.00	
Total NB I-29 to WB I-480		1,465.42	0.278
SB I-29 to WB I-480	1542+93.29 TO 1559+50.00	1,656.71	
Omit Bridge	1544+71.00	960.00	
Total SB I-29 to WB I-480		696.71	0.132
EB I-480 to SB I-29	3531+71.71 TO 3565+14.85	3,343.14	
Omit Bridge	3539+00.00	1,424.00	
Omit Bridge	3553+24.00	306.00	
Total EB I-480 to SB I-29		1,547.14	0.293
EB I-480 to NB I-29	6542+33.35 TO 6572+00.00	2,966.65	
Omit Bridge	6542+71.00	1,895.00	
Total EB I-480 to NB I-29		1,071.65	0.203
Total Net Length of Roadway in Project		22,417.52	4.246
Total Net Length of Bridge in Project		8,085.43	1.531
Total Net Length of Project		14,332.09	2.714



INTERSTATE 480		
DESIGN DATA		
2015 AADT	48400	V.P.D.
2040 AADT	63000	V.P.D.
2040 DHV	6320	V.P.H.
TRUCKS	5	%
Total Design ESALs		

INTERSTATE 29		
DESIGN DATA		
2015 AADT	38900	V.P.D.
2040 AADT	51700	V.P.D.
2040 DHV	4810	V.P.H.
TRUCKS	12	%
Total Design ESALs		

INDEX OF SEALS		
SHEET NO.	NAME	TYPE
A.1	Project Manager	Primary Signature Block

PRELIMINARY PLANS

Subject to change by final design.

D5 Plans - Date October 26, 2017

FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER A.1

11:53:26 AM 10/26/2017 mplummer pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\78029166-A.sht

INDEX OF SHEETS

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A Sheets	**Title Sheets**
*A.1	Title Sheet
A.2	Index of Sheets
A.3	Locaton Map Sheet
B Sheets	**Typical Cross Sections and Details**
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D Sheets	**Mainline Plan and Profile Sheets**
*D.1	Plan and Profile Legend and Symbol Info Sheet
*D.2-10	I-29
*D.11	I-480
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*E.3-4	EB W Broadway
*E.5-7	W Broadway
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*E.12-17	SB Frontage Rd.
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*E.25	2nd Ave.
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*E.28-29	40th St.
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*E.37	W 2nd Ave.
*E.38	S 38th St.
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*E.40	W Ave. B
*E.41	Ave. B
*E.42	N 38th St.
*E.43	W Ave. D
*E.44	Ave. D
*E.45	Benson St.
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*E.47	35th St.
*E.48	6th Ave. Alley
*E.49	3rd Ave. Alley
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*K.20-25	I-480 Ramp H
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* Color Plan Sheet

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X.99-112	Dodge Riverside Dr.
X.113-115	2nd Ave.
X.116-118	Ave. G
X.119-122	40th St.
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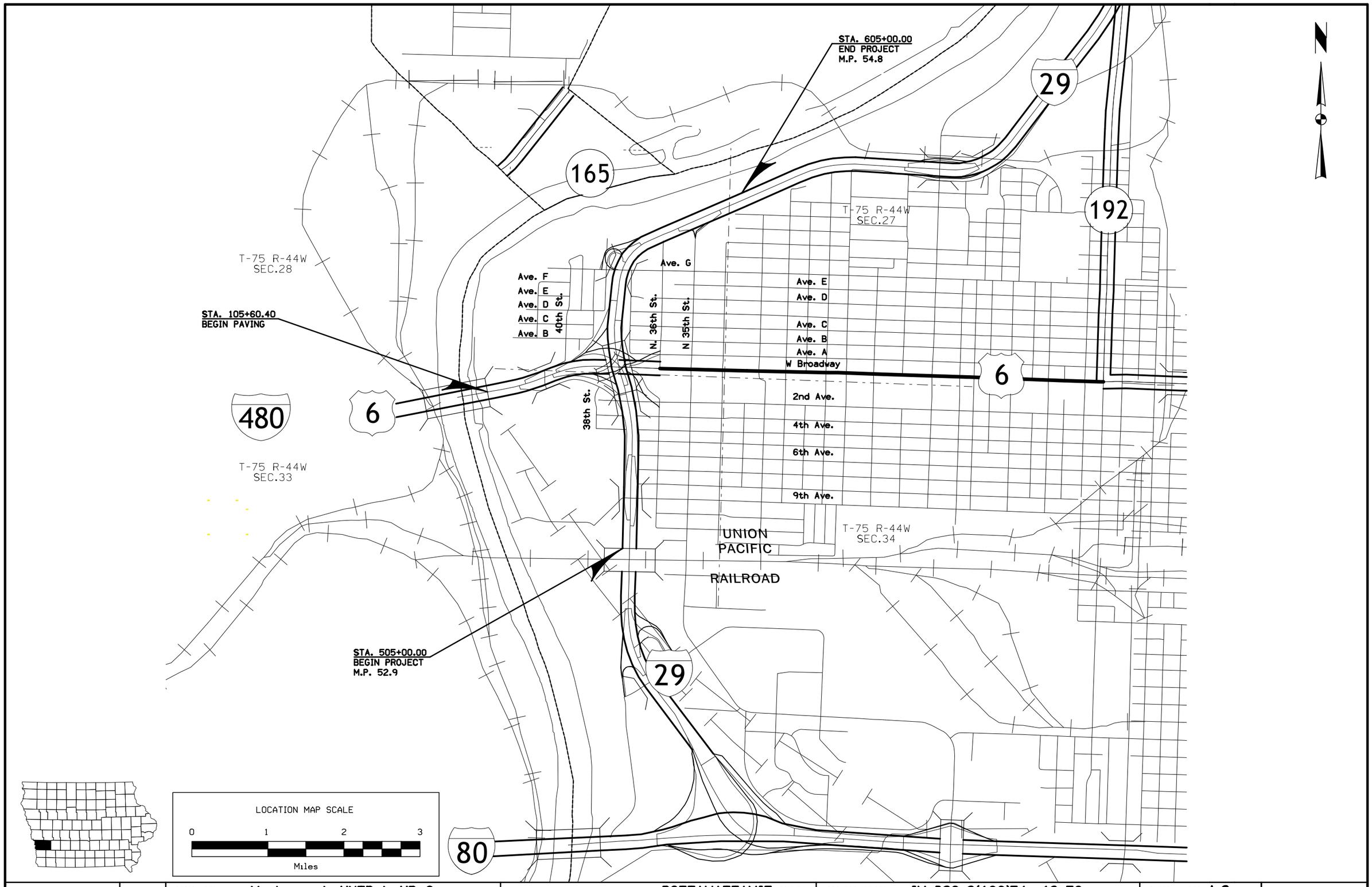
Y.91-96	Ave. G Ramp D

These sheets are not included with this set

* Color Plan Sheet

FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER A.2



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER A.3

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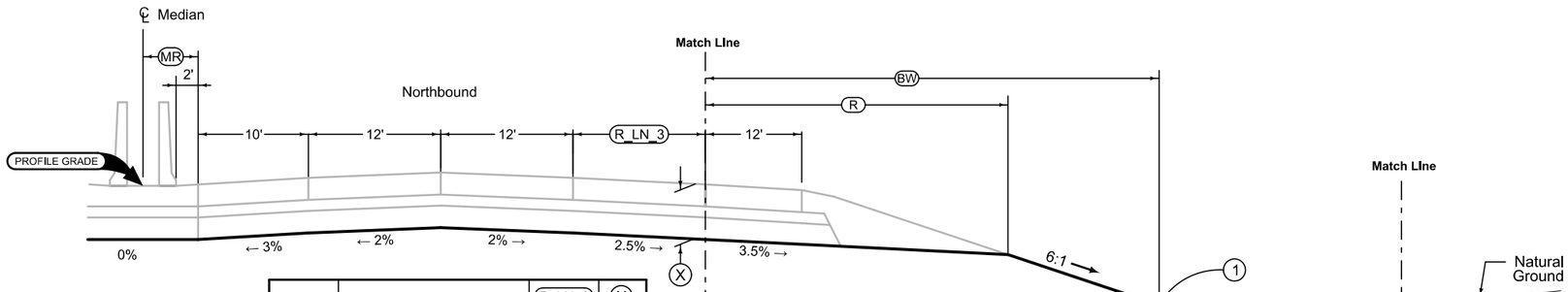
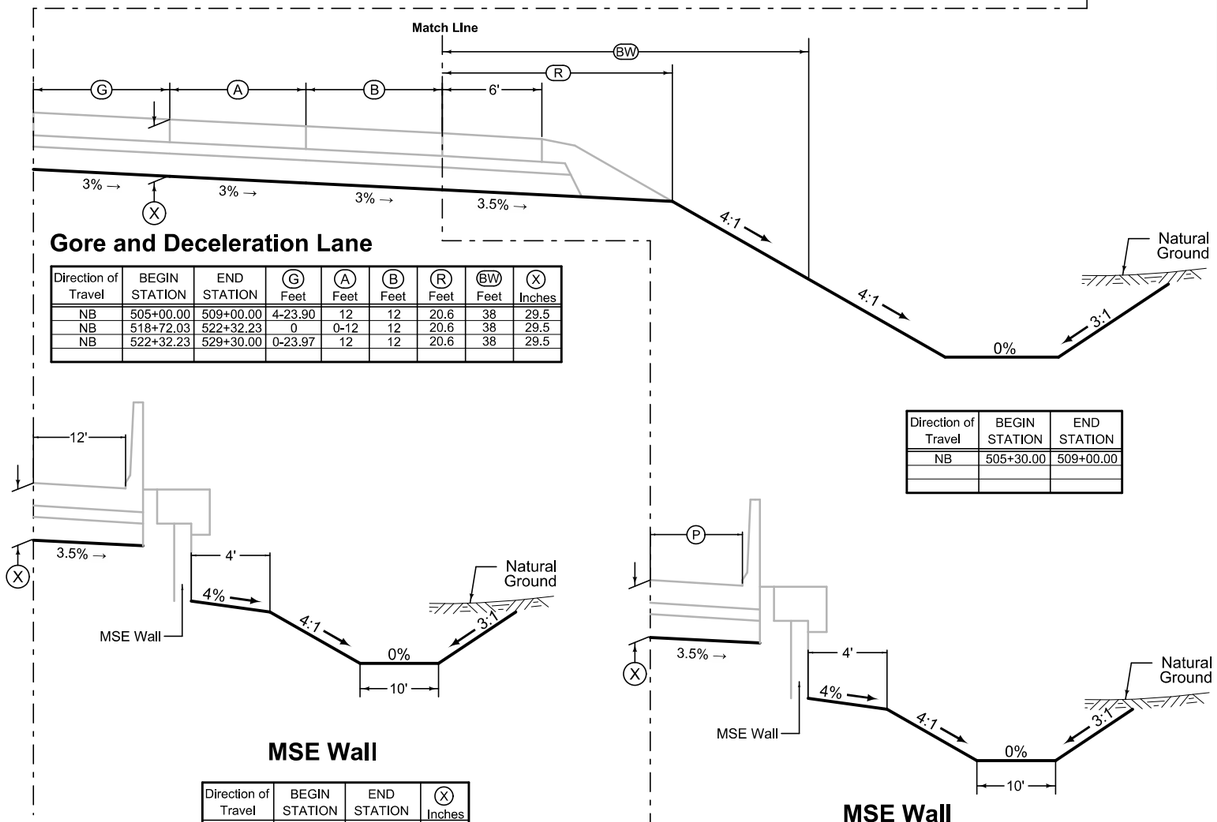


Direction of Travel	BEGIN STATION	END STATION	MR Feet
NB	505+00.00	538+25.00	5
NB	538+25.00	542+00.00	5-9.8
NB	542+00.00	553+55.00	9.8
NB	553+55.00	557+30.00	9.8-5
NB	557+30.00	595+80.00	5

Direction of Travel	STATION TO STATION		R_LN_3 Feet	X Inches
NB	505+00.00	518+72.03	12	29.5
NB	518+72.03	605+00.00	0	29.5

Direction of Travel	BEGIN STATION	END STATION	R Feet	BW Feet
NB	529+30.00	538+60.00	29.6	34
NB	540+90.00	546+35.00	25.3	34
NB	549+15.00	568+65.00	35.5	34



Gore and Deceleration Lane

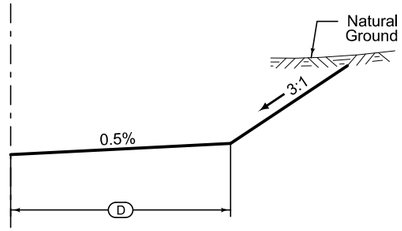
Direction of Travel	BEGIN STATION	END STATION	G Feet	A Feet	B Feet	R Feet	BW Feet	X Inches
NB	505+00.00	509+00.00	4-23.90	12	12	20.6	38	29.5
NB	518+72.03	522+32.23	0	0-12	12	20.6	38	29.5
NB	522+32.23	529+30.00	0-23.97	12	12	20.6	38	29.5

MSE Wall

Direction of Travel	BEGIN STATION	END STATION	X Inches
NB	511+20.00	516+98.00	29.5
NB	518+03.00	518+72.03	29.5

MSE Wall

Direction of Travel	BEGIN STATION	END STATION	P Feet	X Inches
NB	518+72.03	520+51.73	12-6	29.5
NB	520+51.73	529+30.00	6	29.5



Direction of Travel	BEGIN STATION	END STATION
NB	505+30.00	509+00.00

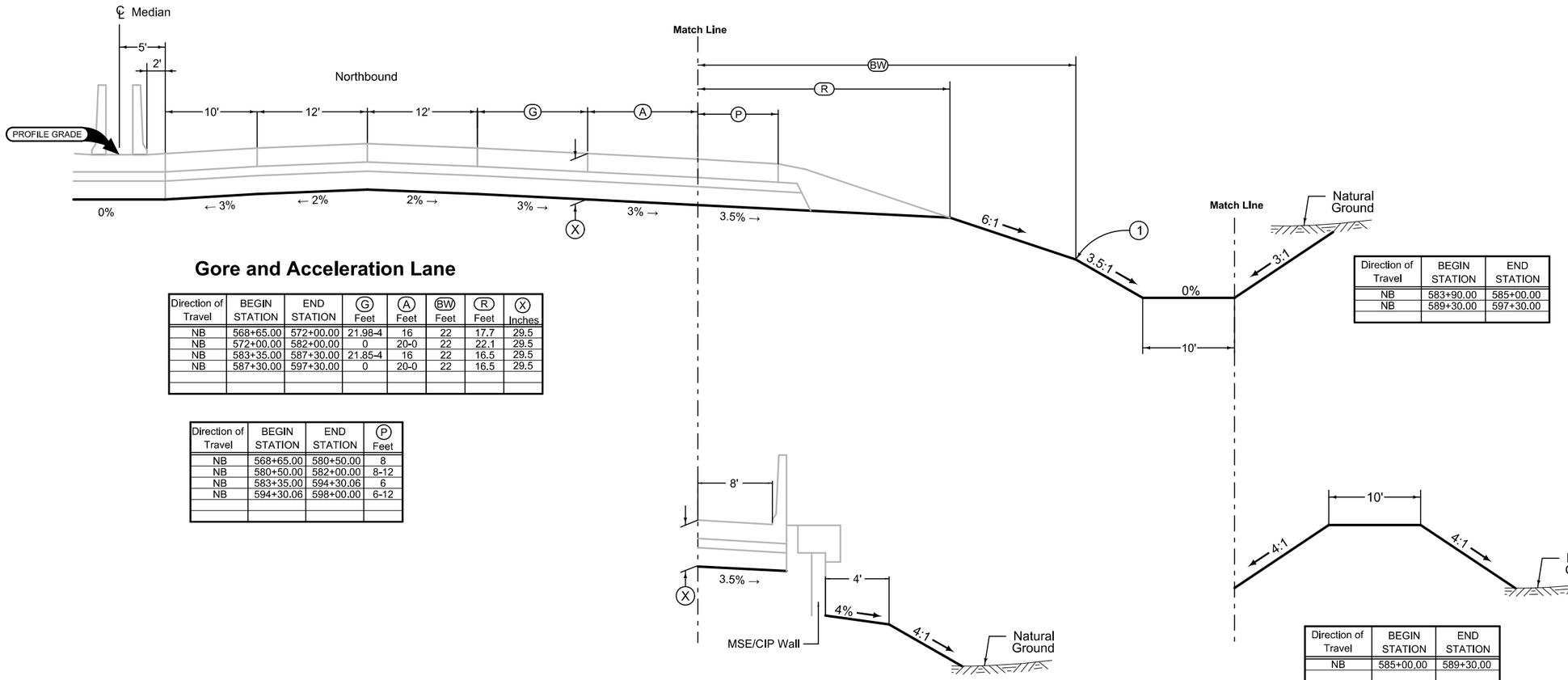
Direction of Travel	BEGIN STATION	END STATION	D Feet
NB	540+90.00	541+15.00	20-0
NB	542+50.00	544+55.00	0-35
NB	544+55.00	546+25.00	35-80
NB	546+25.00	546+85.00	80-0
NB	549+15.00	549+40.00	130-110
NB	549+40.00	555+00.00	110-190
NB	555+00.00	558+35.00	190-160

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.

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

I-29 NB
Grading



Gore and Acceleration Lane

Direction of Travel	BEGIN STATION	END STATION	(G) Feet	(A) Feet	(BW) Feet	(R) Feet	(X) Inches
NB	568+65.00	572+00.00	21.98-4	16	22	17.7	29.5
NB	572+00.00	582+00.00	0	20-0	22	22.1	29.5
NB	583+35.00	587+30.00	21.85-4	16	22	16.5	29.5
NB	587+30.00	597+30.00	0	20-0	22	16.5	29.5

Direction of Travel	BEGIN STATION	END STATION	(P) Feet
NB	568+65.00	580+50.00	8
NB	580+50.00	582+00.00	8-12
NB	583+35.00	594+30.06	6
NB	594+30.06	598+00.00	6-12

Direction of Travel	BEGIN STATION	END STATION
NB	583+90.00	585+00.00
NB	589+30.00	597+30.00

MSE/CIP Wall

Direction of Travel	BEGIN STATION	END STATION	Wall Type	(X) Inches
NB	568+65.00	570+36.52	MSE	29.5
NB	572+85.76	580+00.00	MSE	29.5
NB	583+35.00	583+90.00	CIP	29.5

Direction of Travel	BEGIN STATION	END STATION
NB	585+00.00	589+30.00

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

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

I-29 NB
Grading

FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER B.2

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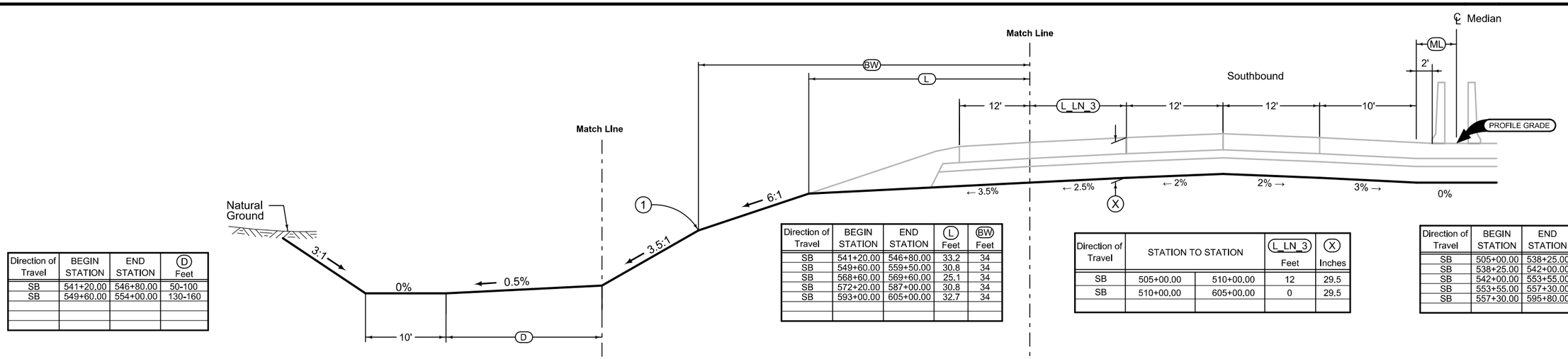


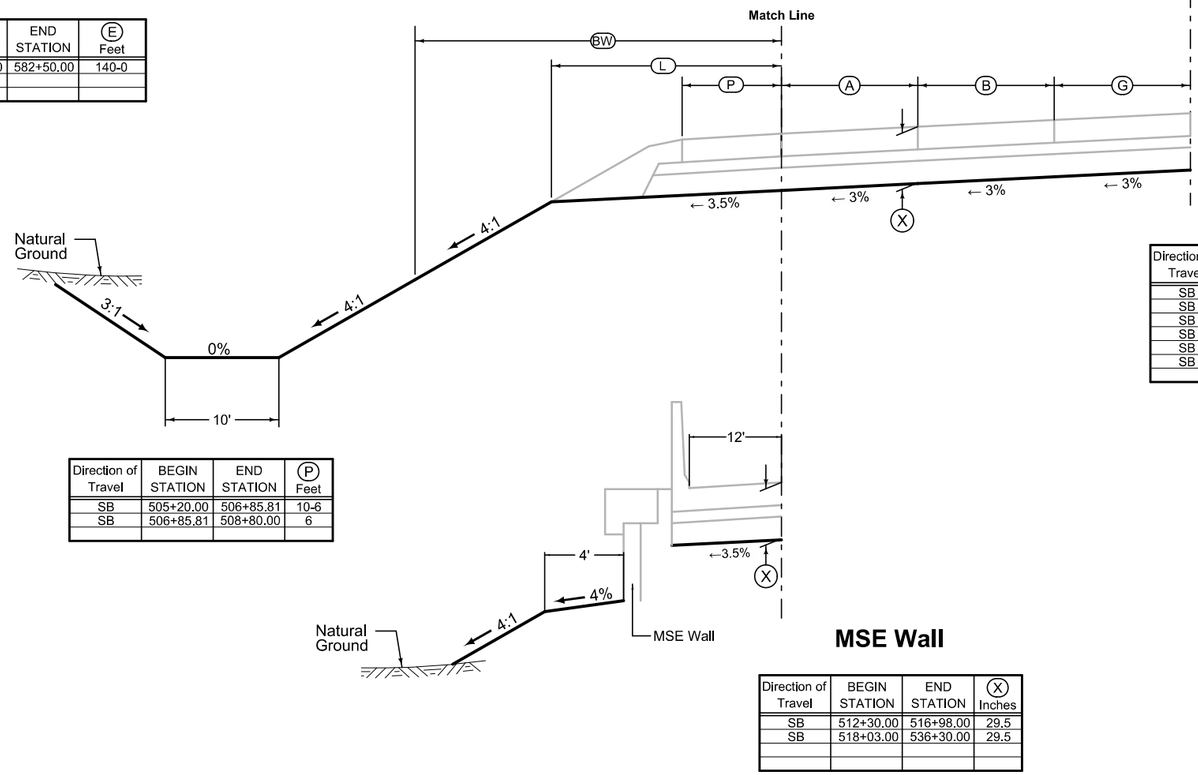
Direction of Travel	BEGIN STATION	END STATION	(D) Feet
SB	541+20.00	546+80.00	50-100
SB	549+60.00	554+00.00	130-160

Direction of Travel	BEGIN STATION	END STATION	(L) Feet	(BW) Feet
SB	541+20.00	546+80.00	33.2	34
SB	549+60.00	559+50.00	30.8	34
SB	568+60.00	569+60.00	25.1	34
SB	572+20.00	587+00.00	30.8	34
SB	593+00.00	605+00.00	32.7	34

Direction of Travel	STATION TO STATION		(L_LN_3) Feet	(X) Inches
SB	505+00.00	510+00.00	12	29.5
SB	510+00.00	605+00.00	0	29.5

Direction of Travel	BEGIN STATION	END STATION	(ML) Feet
SB	505+00.00	538+25.00	5
SB	538+25.00	542+00.00	5-9.8
SB	542+00.00	553+55.00	9.8
SB	553+55.00	557+30.00	9.8-5
SB	557+30.00	595+80.00	5

Direction of Travel	BEGIN STATION	END STATION	(E) Feet
SB	572+20.00	582+50.00	140-0



Direction of Travel	BEGIN STATION	END STATION	(P) Feet
SB	505+20.00	506+85.81	10-6
SB	506+85.81	508+80.00	6

Gore and Acceleration Lane

Direction of Travel	BEGIN STATION	END STATION	(A) Feet	(B) Feet	(G) Feet	(BW) Feet	(L) Feet	(X) Inches
SB	505+00.00	505+20.00	12	0	0	38	16.4	29.5
SB	505+20.00	507+00.00	12-19	0	0	38	16.4	29.5
SB	507+00.00	508+80.00	16	0	3-21.90	38	16.4	29.5
SB	510+00.00	516+00.00	0-12	12	0	38	16.4	29.5
SB	516+00.00	531+71.71	12	12	0	38	16.4	29.5
SB	531+71.71	536+30.00	12	12	0-21.80	38	16.4	29.5

MSE Wall

Direction of Travel	BEGIN STATION	END STATION	(X) Inches
SB	512+30.00	516+98.00	29.5
SB	518+03.00	536+30.00	29.5

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.

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

I-29 SB
Grading

FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER B.3

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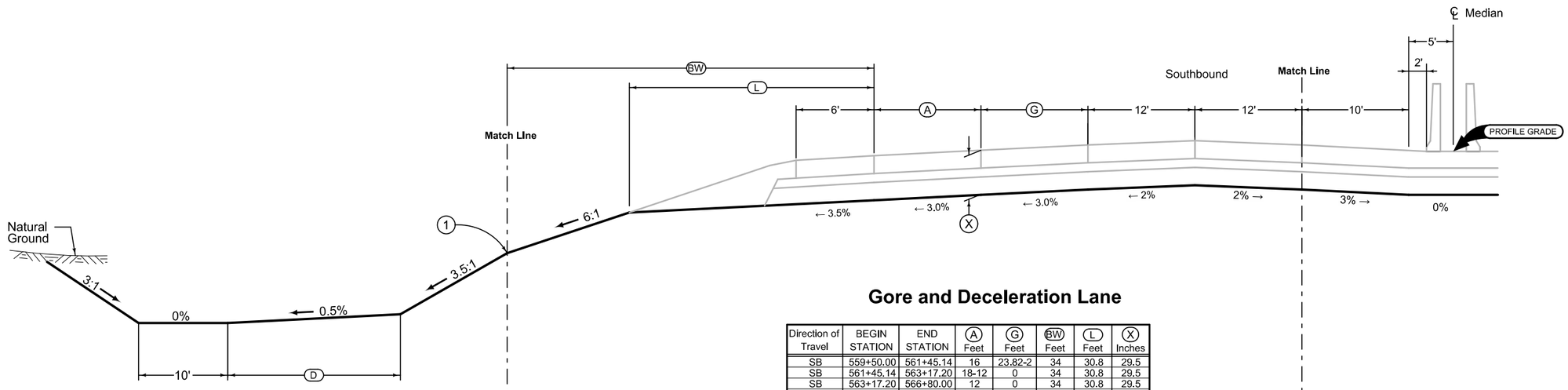
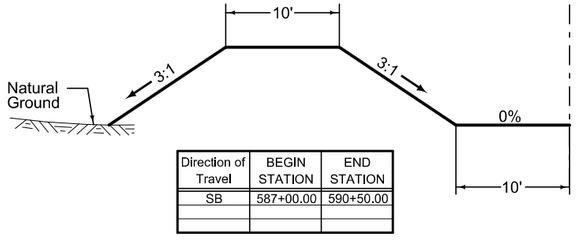


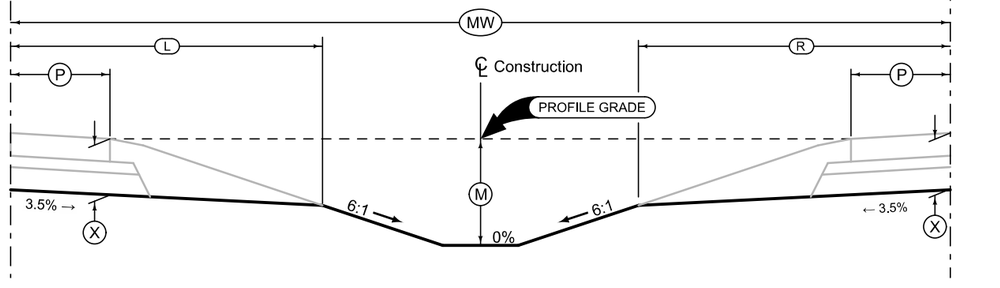
Gore and Deceleration Lane

Direction of Travel	BEGIN STATION	END STATION	(A) Feet	(G) Feet	(BW) Feet	(L) Feet	(X) Inches
SB	559+50.00	561+45.14	16	23.82-2	34	30.8	29.5
SB	561+45.14	563+17.20	18-12	0	34	30.8	29.5
SB	563+17.20	566+80.00	12	0	34	30.8	29.5
SB	566+80.00	568+60.00	12-0	0	34	30.8	29.5
SB	587+00.00	590+20.00	16	23.96-3	34	30.8	29.5
SB	590+20.00	593+00.00	19-0	0	34	30.8	29.5

Direction of Travel	BEGIN STATION	END STATION	(D) Feet
SB	559+50.00	568+60.00	0-55



Direction of Travel	BEGIN STATION	END STATION
SB	587+00.00	590+50.00



Direction of Travel	BEGIN STATION	END STATION	(P) Feet
SB	600+50.00	603+50.00	12
SB	603+50.00	605+00.00	12-6

Direction of Travel	BEGIN STATION	END STATION	(MW) Feet	(M) Feet	(L) Feet	(R) Feet	(X) Inches
NB/SB	600+50.00	605+00.00	37-50	0.5-3.5	22	22	29.5

Direction of Travel	BEGIN STATION	END STATION	(P) Feet
NB	600+50.00	603+50.00	12
NB	603+50.00	605+00.00	12-6

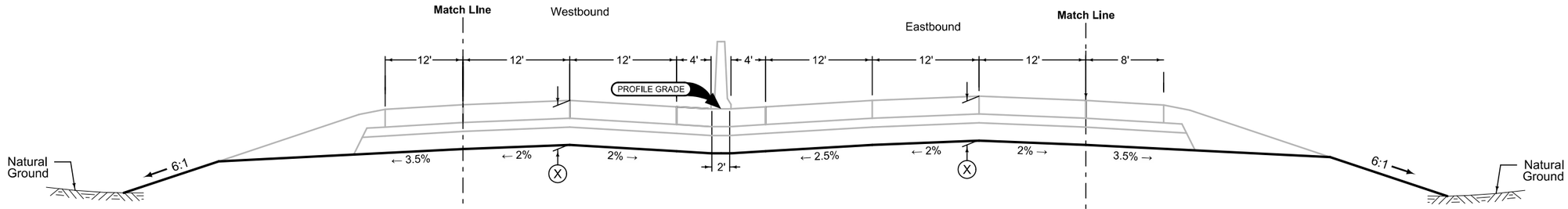
Normal section shown may be modified appropriately in areas of superelevated curves or other locations specifically designated by the Engineer.

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

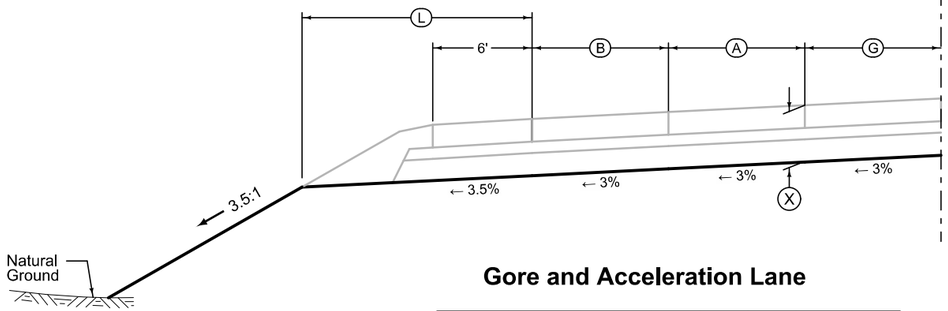
(1) Refer to project plan and cross sections for specific location of foreslope change.

I-29 SB and Median Grading

FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER B.4

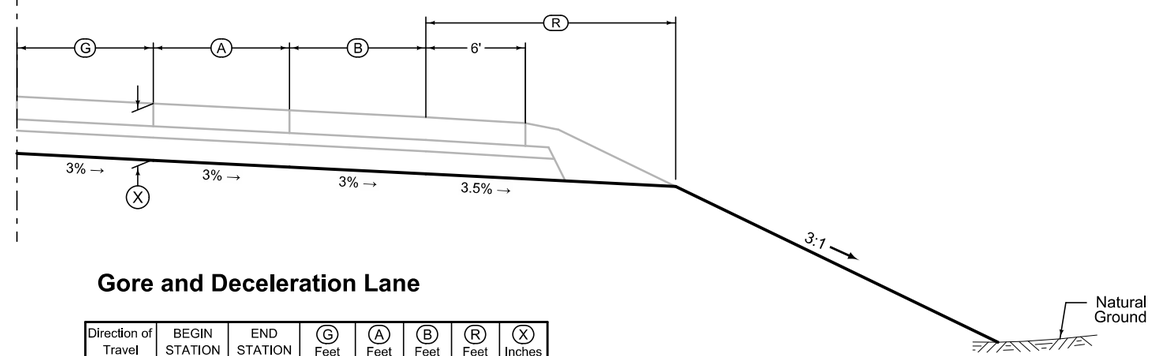


Direction of Travel	STATION TO STATION		(X) Inches
EB/WB	105+60.40	110+00.00	29.5



Gore and Acceleration Lane

Direction of Travel	BEGIN STATION	END STATION	(L) Feet	(B) Feet	(A) Feet	(G) Feet	(X) Inches
WB	105+60.40	107+15.00	20	12	12-14.5	0	29.5
WB	107+15.00	109+65.00	20	12	12	2.5-21.6	29.5



Gore and Deceleration Lane

Direction of Travel	BEGIN STATION	END STATION	(G) Feet	(A) Feet	(B) Feet	(R) Feet	(X) Inches
EB	105+60.40	107+35.00	0	0-14.8	12	18.4	29.5
EB	107+35.00	109+10.00	2.8-23.8	12	12	18.4	29.5

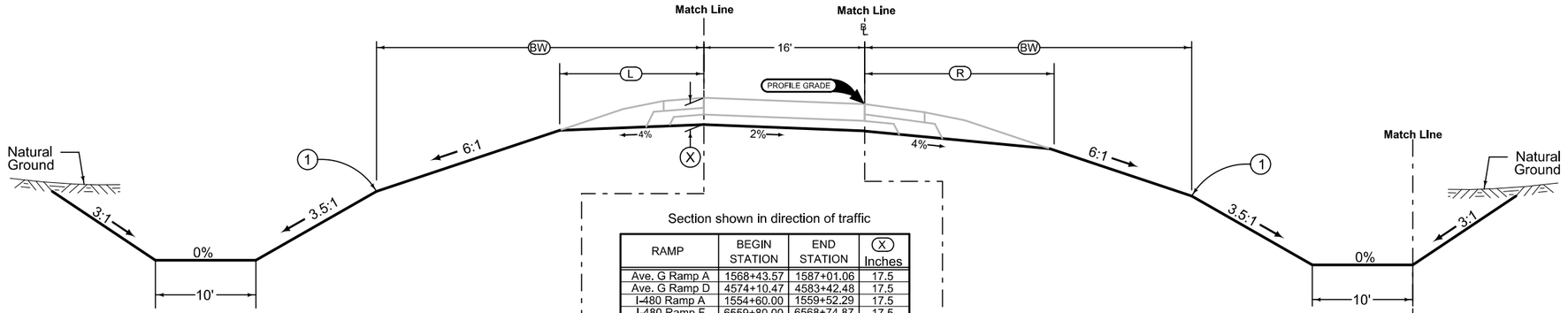
Normal section shown may be modified appropriately in areas of superelevated curves or other locations specifically designated by the Engineer.

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

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

I-480
Grading

FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER B.5

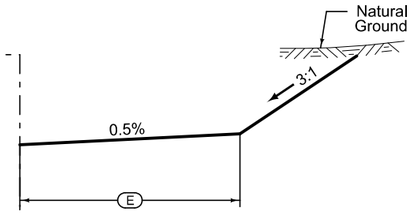


Section shown in direction of traffic

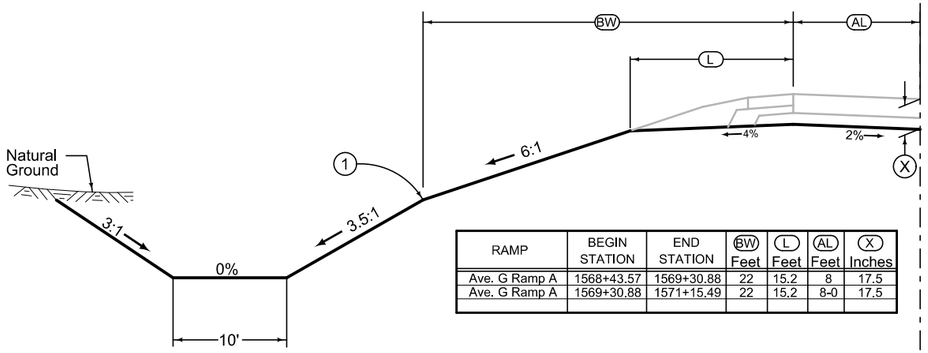
RAMP	BEGIN STATION	END STATION	(X) Inches
Ave. G Ramp A	1568+43.57	1587+01.06	17.5
Ave. G Ramp D	4574+10.47	4583+42.48	17.5
I-480 Ramp A	1554+60.00	1559+52.29	17.5
I-480 Ramp F	6559+80.00	6568+74.87	17.5
9th Ave. Ramp A	1529+03.47	1537+52.27	17.5
9th Ave. Ramp C	3508+79.39	3516+14.89	17.5
9th Ave. Ramp D	4525+36.19	4533+48.07	17.5

RAMP	BEGIN STATION	END STATION	(BW) Feet	(L) Feet
Ave. G Ramp A	1571+15.49	1582+50.00	22	15.2
I-480 Ramp A	1554+60.00	1559+52.29	22	22.1
I-480 Ramp F	6559+80.00	6568+74.87	22	19.7
9th Ave. Ramp D	4525+36.19	4533+48.07	-	8.8

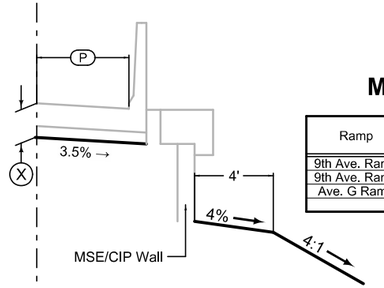
Ramp	BEGIN STATION	END STATION	(BW) Feet	(R) Feet
Ave. G Ramp A	1568+43.57	1587+01.06	22	16.9
Ave. G Ramp D	4574+10.47	4580+50.00	22	16.9
I-480 Ramp A	1554+60.00	1559+52.29	22	22.1
I-480 Ramp F	6559+80.00	6568+74.87	22	15.1
9th Ave. Ramp A	1529+03.47	1532+20.00	-	20.0
9th Ave. Ramp D	4525+36.19	4527+30.00	-	-



Ramp	BEGIN STATION	END STATION	(E) Feet
Ave. G Ramp A	1568+43.57	1569+60.00	200
Ave. G Ramp A	1569+60.00	1571+20.00	200-0

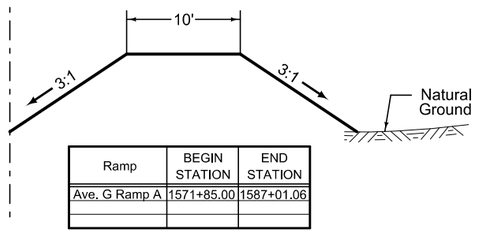


RAMP	BEGIN STATION	END STATION	(BW) Feet	(L) Feet	(AL) Feet	(X) Inches
Ave. G Ramp A	1568+43.57	1569+30.88	22	15.2	8	17.5
Ave. G Ramp A	1569+30.88	1571+15.49	22	15.2	8-0	17.5

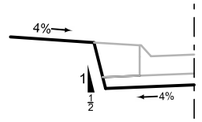


MSE/CIP Wall

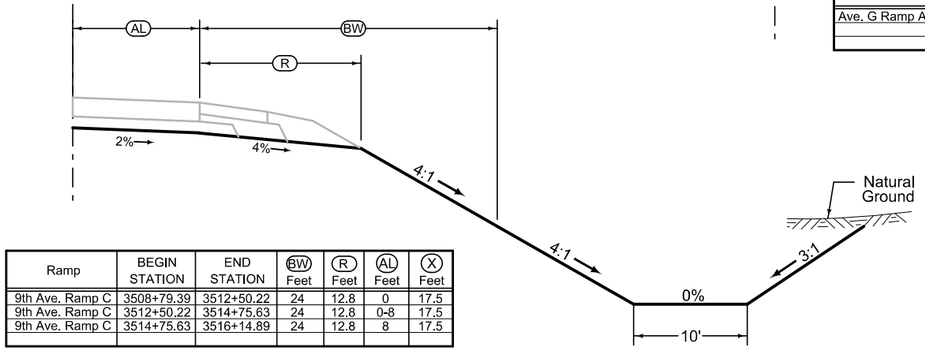
Ramp	BEGIN STATION	END STATION	(P) Feet	(X) Inches
9th Ave. Ramp A	1532+20.00	1537+52.27	8	17.5
9th Ave. Ramp D	4527+30.00	4574+10.47	6	17.5
Ave. G Ramp D	4580+50.00	4583+42.48	6	17.5



Ramp	BEGIN STATION	END STATION
Ave. G Ramp A	1571+85.00	1587+01.06



RAMP	BEGIN STATION	END STATION
9th Ave. Ramp A	1529+03.47	1537+52.27
9th Ave. Ramp C	3508+79.39	3516+14.89
Ave. G Ramp D	4574+10.47	4583+42.48



Ramp	BEGIN STATION	END STATION	(BW) Feet	(R) Feet	(AL) Feet	(X) Feet
9th Ave. Ramp C	3508+79.39	3512+50.22	24	12.8	0	17.5
9th Ave. Ramp C	3512+50.22	3514+75.63	24	12.8	0-8	17.5
9th Ave. Ramp C	3514+75.63	3516+14.89	24	12.8	8	17.5

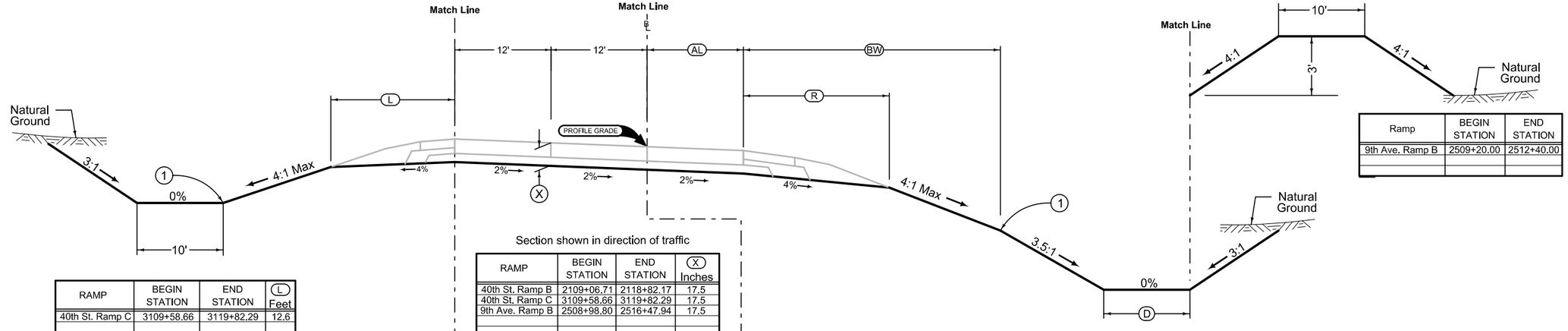
Normal section shown may be modified appropriately in areas of superelevated curves or other locations specifically designated by the Engineer.

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

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

1 Lane Ramp Grading

FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER B.6



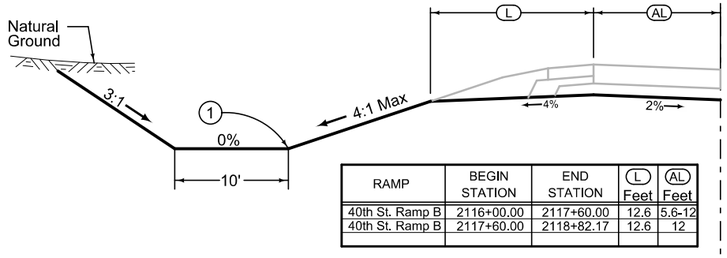
RAMP	BEGIN STATION	END STATION	(L) Feet
40th St. Ramp C	3109+58.66	3119+82.29	12.6

Section shown in direction of traffic

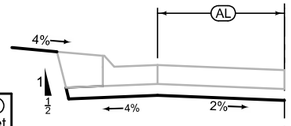
RAMP	BEGIN STATION	END STATION	(X) Inches
40th St. Ramp B	2109+06.71	2118+82.17	17.5
40th St. Ramp C	3109+58.66	3119+82.29	17.5
9th Ave. Ramp B	2508+98.80	2516+47.94	17.5

Ramp	BEGIN STATION	END STATION	(AL) Feet	(BW) Feet	(R) Feet	(D) Feet
40th St Ramp C	3109+58.66	3116+00.00	0	22	12.6	0
9th Ave. Ramp B	2508+98.80	2512+20.00	0	24	14	10
9th Ave. Ramp B	2512+20.00	2514+00.00	0-12	24	14	10
9th Ave. Ramp B	2514+00.00	2516+47.94	12	24	14	10

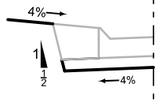
Ramp	BEGIN STATION	END STATION	(E) Feet
9th Ave. Ramp B	2509+20.00	2512+40.00	



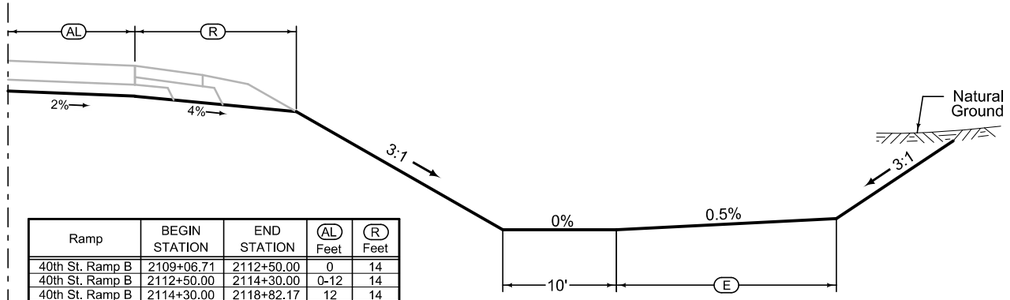
RAMP	BEGIN STATION	END STATION	(L) Feet	(AL) Feet
40th St. Ramp B	2116+00.00	2117+60.00	12.6	5.6-12
40th St. Ramp B	2117+60.00	2118+82.17	12.6	12



RAMP	BEGIN STATION	END STATION	(AL) Feet
40th St. Ramp B	2109+06.71	2115+80.00	0
40th St. Ramp B	2115+80.00	2116+00.00	0-5.6

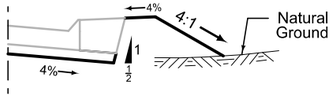


RAMP	BEGIN STATION	END STATION
9th Ave. Ramp B	2508+98.80	2516+47.94



Ramp	BEGIN STATION	END STATION	(AL) Feet	(R) Feet
40th St. Ramp B	2109+06.71	2112+50.00	0	14
40th St. Ramp B	2112+50.00	2114+30.00	0-12	14
40th St. Ramp B	2114+30.00	2118+82.17	12	14

Ramp	BEGIN STATION	END STATION	(E) Feet
40th St. Ramp B	2109+06.71	2110+20.00	0
40th St. Ramp B	2110+20.00	2114+00.00	110-0
40th St. Ramp B	2114+00.00	2118+82.17	0



RAMP	BEGIN STATION	END STATION
40th St Ramp C	3116+00.00	3119+82.29

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

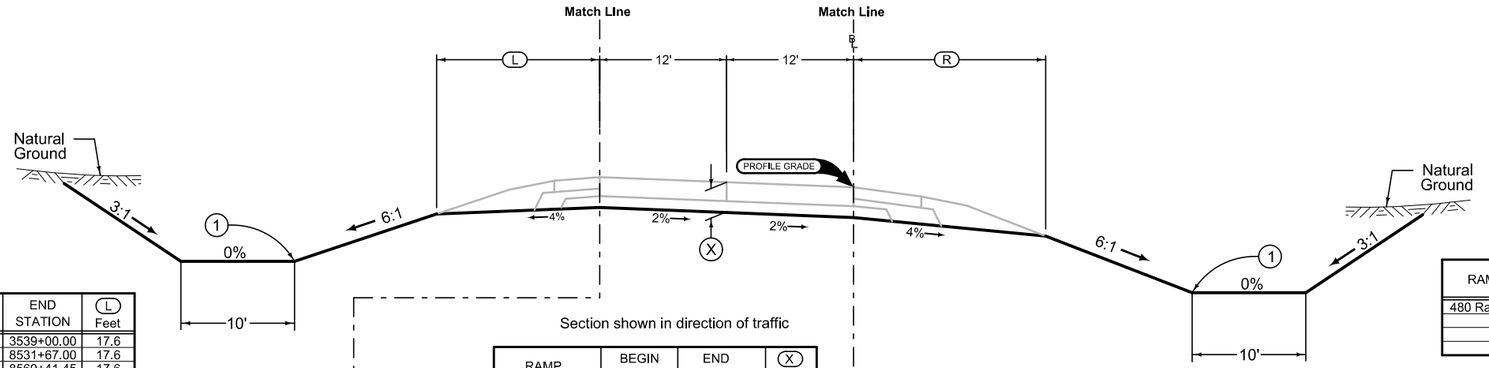
See Plan & Profile sheets and cross sections for additional details of ditches and backslopes.

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

2 Lane Ramp Grading

FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER B.7

8:37:50 AM 10/26/2017 mplummer pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\78029166-B.sht

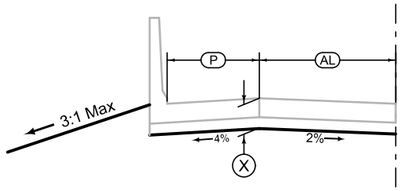


RAMP	BEGIN STATION	END STATION	(L) Feet
480 Ramp C	3536+21.95	3539+00.00	17.6
480 Ramp H	8529+28.83	8531+67.00	17.6
480 Ramp H	8560+15.00	8569+41.45	17.6

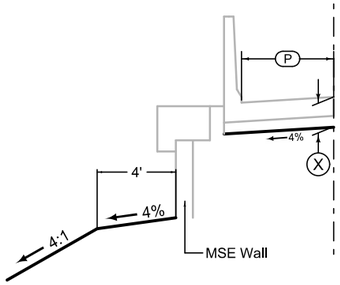
RAMP	BEGIN STATION	END STATION	(R) Feet
480 Ramp C	3536+60.00	3537+51.16	17.6

Section shown in direction of traffic

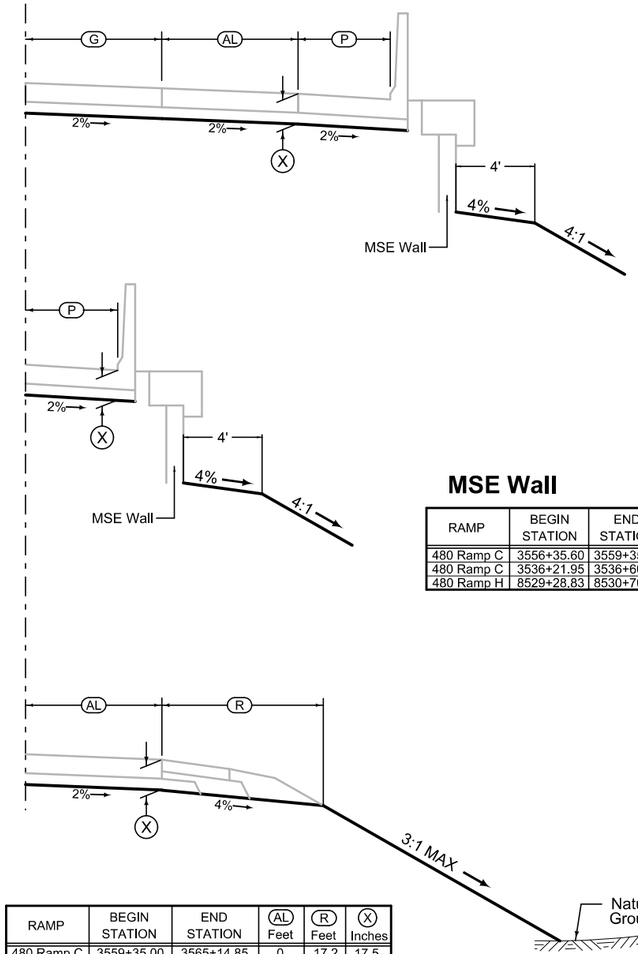
RAMP	BEGIN STATION	END STATION	(X) Inches
480 Ramp C	3536+21.95	3539+00.00	17.5
480 Ramp C	3556+35.60	3565+14.85	17.5
480 Ramp H	8529+28.83	8536+42.00	17.5
480 Ramp H	8560+15.00	8569+41.45	17.5



RAMP	BEGIN STATION	END STATION	(P) Feet	(AL) Feet	(X) Inches
480 Ramp C	3556+35.60	3556+54.24	12	12.2-12	17.5
480 Ramp C	3556+54.24	3556+91.96	12	12	17.5
480 Ramp C	3556+91.96	3560+91.96	12-4	12	17.5
480 Ramp C	3560+91.96	3565+14.85	4	12	17.5



RAMP	BEGIN STATION	END STATION	(P) Feet	(X) Inches
480 Ramp H	8531+67.00	8536+42.00	8	17.5



MSE Wall

RAMP	BEGIN STATION	END STATION	(G) Feet	(AL) Feet	(P) Feet	(X) Inches
480 Ramp C	3537+51.16	3539+00.00	24-14.2	16	8	17.5
480 Ramp H	8533+50.00	8536+42.00	21.8-7	16	6-4	17.5

MSE Wall

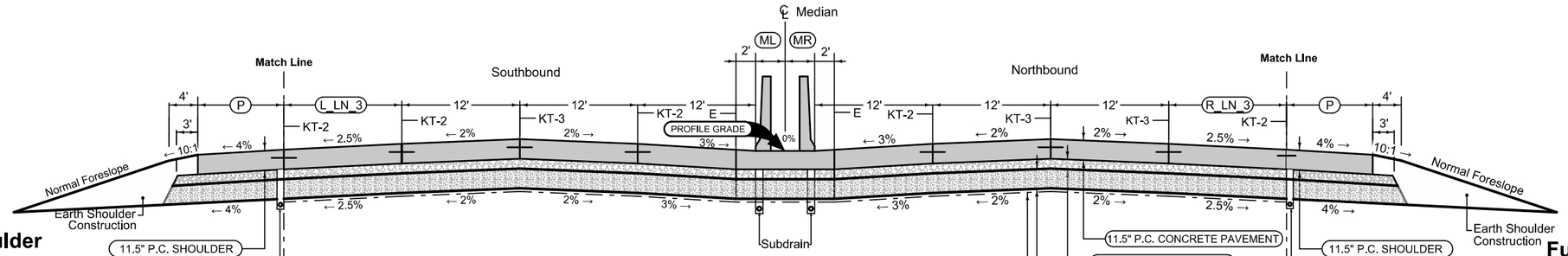
RAMP	BEGIN STATION	END STATION	(P) Feet	(X) Inches
480 Ramp C	3556+35.60	3559+35.00	8	17.5
480 Ramp C	3536+21.95	3536+60.00	12	17.5
480 Ramp H	8529+28.83	8530+70.00	6	17.5

RAMP	BEGIN STATION	END STATION	(AL) Feet	(R) Feet	(X) Inches
480 Ramp C	3559+35.00	3565+14.85	0	17.2	17.5
480 Ramp H	8530+70.00	8533+50.00	0	16.7	17.5
480 Ramp H	8560+15.00	8569+15.61	18-0	20.4	17.5
480 Ramp H	8569+15.61	8569+41.45	0	20.4	17.5

I-480 Ramp C and Ramp H Grading

FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER B.8

8:37:51 AM 10/26/2017 mplummer pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\7802916 6-B.sht



Full Depth PCC Shoulder

Shoulder Jointing:
Longitudinal joint: L-2 or KT-2
Transverse joints: C at 20' spacing

Direction of Travel	BEGIN STATION	END STATION	(P) Feet
SB	505+00.00	505+20.00	12
SB	505+20.00	506+85.81	12-6
SB	506+85.81	508+80.00	6
SB	510+00.00	510+85.00	12

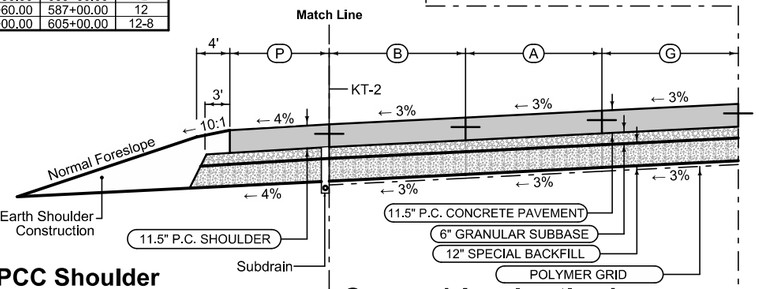
* Median Barrier will transition from 34" to 54" at Bridge Piers

Direction of Travel	STATION TO STATION		(L_LN_3) Feet	(R_LN_3) Feet
NB	505+00.00	518+72.03	0	12
NB	518+72.03	605+00.00	0	0
SB	505+00.00	510+00.00	12	0
SB	510+00.00	605+00.00	0	0

Full Depth PCC Shoulder

Shoulder Jointing:
Longitudinal joint: L-2 or KT-2
Transverse joints: C at 20' spacing

Direction of Travel	BEGIN STATION	END STATION	(P) Feet
NB	509+00.00	518+72.03	12
NB	529+30.00	568+65.00	12
NB	582+00.00	583+35.00	12
NB	597+30.00	605+00.00	12-7



Full Depth PCC Shoulder

Shoulder Jointing:
Longitudinal joint: L-2 or KT-2
Transverse joints: C at 20' spacing

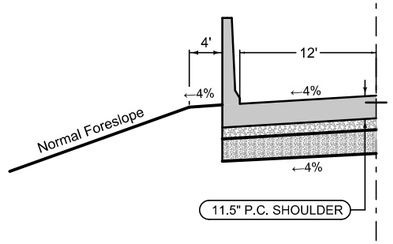
Direction of Travel	BEGIN STATION	END STATION	(P) Feet
SB	505+00.00	505+20.00	12
SB	505+20.00	506+85.81	12-6
SB	506+85.81	508+80.00	6
SB	510+00.00	510+85.00	12

Gore and Acceleration Lane

Shoulder Jointing:
Longitudinal joint: L-2 or KT-2
Transverse joints: C at 20' spacing

Direction of Travel	BEGIN STATION	END STATION	(B) Feet	(A) Feet	(G) Feet
SB	505+00.00	507+00.00	12-19	0	0
SB	507+00.00	508+80.00	16	0	3-21.9
SB	510+00.00	516+00.00	0-12	12	0
SB	516+00.00	531+71.71	12	12	0
SB	531+71.71	536+30.00	12	12	0-21.80

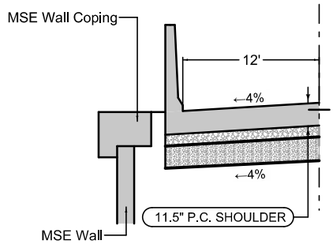
Median Shoulder Transitions				
Direction of Travel	STATION TO STATION		(ML) Feet	(MR) Feet
NB/SB	505+00.00	538+25.00	3	3
NB/SB	538+25.00	542+00.00	3-7.75	3-7.75
NB/SB	542+00.00	553+55.00	7.75	7.75
NB/SB	553+55.00	557+30.00	7.75-3	7.75-3
NB/SB	557+30.00	598+00.00	3	3



Full Depth Reinforced PCC Shoulder

Shoulder Jointing:
Longitudinal joint: L-2 or KT-2
Transverse joints: C at 20' spacing

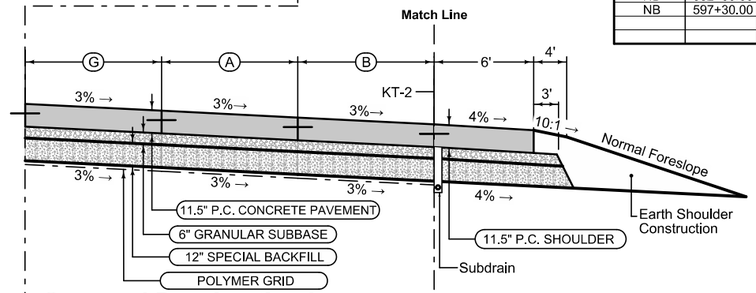
Direction of Travel	BEGIN STATION	END STATION
SB	510+85.00	512+30.00



Full Depth Reinforced PCC Shoulder

Shoulder Jointing:
Longitudinal joint: L-2 or KT-2
Transverse joints: C at 20' spacing

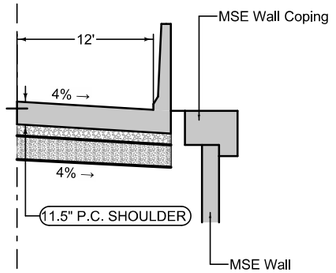
Direction of Travel	BEGIN STATION	END STATION
SB	512+30.00	516+98.00
SB	518+03.00	536+04.00



Gore and Deceleration Lane

Shoulder Jointing:
Longitudinal joint: L-2 or KT-2
Transverse joints: C at 20' spacing

Direction of Travel	BEGIN STATION	END STATION	(G) Feet	(A) Feet	(B) Feet
NB	505+00.00	509+00.00	3.9-23.9	12	12
NB	518+72.03	522+32.23	0	0-12	12
NB	522+32.23	529+30.00	0-24	12	12



Full Depth Reinforced PCC Shoulder

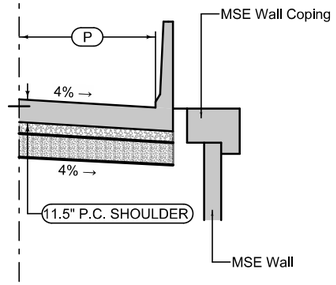
Shoulder Jointing:
Longitudinal joint: L-2 or KT-2
Transverse joints: C at 20' spacing

Direction of Travel	BEGIN STATION	END STATION
NB	511+20.00	516+98.00
NB	518+03.00	518+72.03

Full Depth PCC Shoulder

Shoulder Jointing:
Longitudinal joint: L-2 or KT-2
Transverse joints: C at 20' spacing

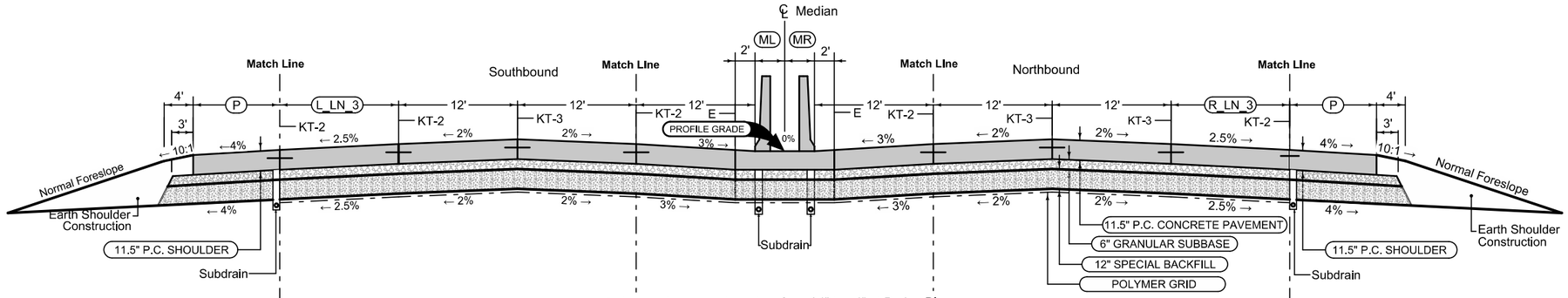
Direction of Travel	BEGIN STATION	END STATION
NB	505+00.00	509+00.00



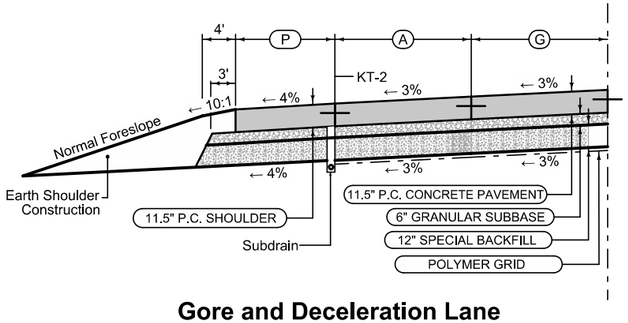
Full Depth Reinforced PCC Shoulder

Shoulder Jointing:
Longitudinal joint: L-2 or KT-2
Transverse joints: C at 20' spacing

Direction of Travel	BEGIN STATION	END STATION	(P) Feet
NB	518+72.03	520+51.73	12-6
NB	520+51.73	529+30.00	6



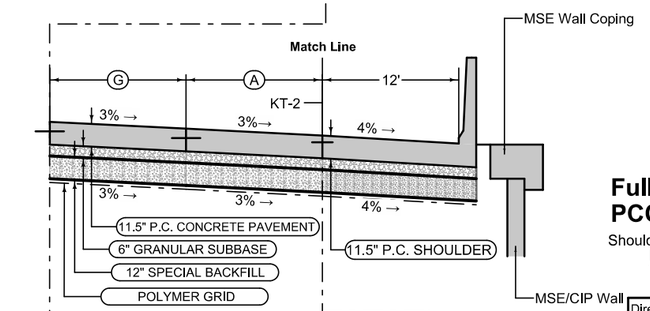
* Median Barrier will transition from 34" to 54" at Bridge Piers



Gore and Deceleration Lane
Full Depth PCC Shoulder

Shoulder Jointing:
Longitudinal joint: L-2 or KT-2
Transverse joints: C at 20' spacing

Direction of Travel	BEGIN STATION	END STATION	(A) Feet	(G) Feet	(P) Feet
SB	559+50.00	561+45.14	16	23.8-2	12
SB	561+45.14	563+17.20	18-12	0	12
SB	563+17.20	566+80.00	12	0	12
SB	566+80.00	568+60.00	12-0	0	12
SB	587+00.00	590+20.00	16	24-2.6	6
SB	590+20.00	593+00.00	18.6-0	0	6-12



Gore and Acceleration Lane

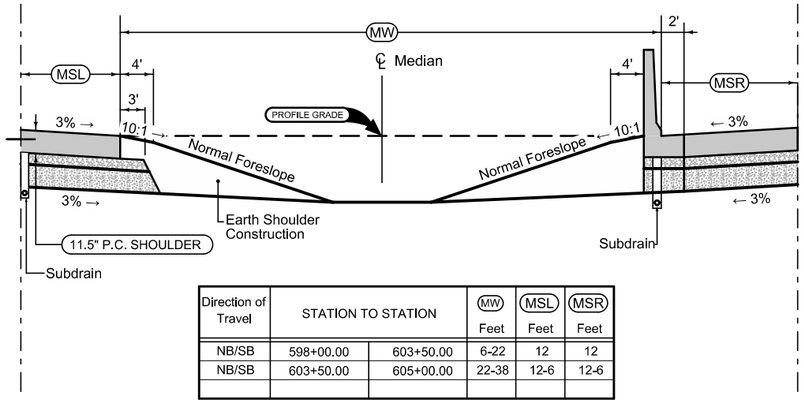
Shoulder Jointing:
Longitudinal joint: L-2 or KT-2
Transverse joints: C at 20' spacing

Direction of Travel	BEGIN STATION	END STATION	(G) Feet	(A) Feet
NB	568+65.00	572+00.00	22-4	16
NB	572+00.00	582+00.00	0	20-0
NB	583+35.00	587+30.00	21.8-4	16
NB	587+30.00	597+30.00	0	20-0

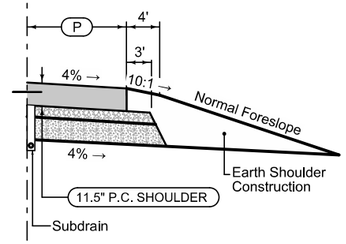
Full Depth Reinforced PCC Shoulder

Shoulder Jointing:
Longitudinal joint: L-2 or KT-2
Transverse joints: C at 20' spacing

Direction of Travel	BEGIN STATION	END STATION	Wall Type
NB	568+65.00	570+39.84	MSE
NB	572+84.13	580+00.00	MSE
NB	583+35.00	583+95.61	CIP



Direction of Travel	STATION TO STATION		(MW) Feet	(MSL) Feet	(MSR) Feet
NB/SB	598+00.00	603+50.00	6-22	12	12
NB/SB	603+50.00	605+00.00	22-38	12-6	12-6



Full Depth PCC Shoulder

Shoulder Jointing:
Longitudinal joint: L-2 or KT-2
Transverse joints: C at 20' spacing

Direction of Travel	BEGIN STATION	END STATION	(P) Feet
NB	583+95.61	594+30.00	6
NB	594+30.00	597+30.00	6-12

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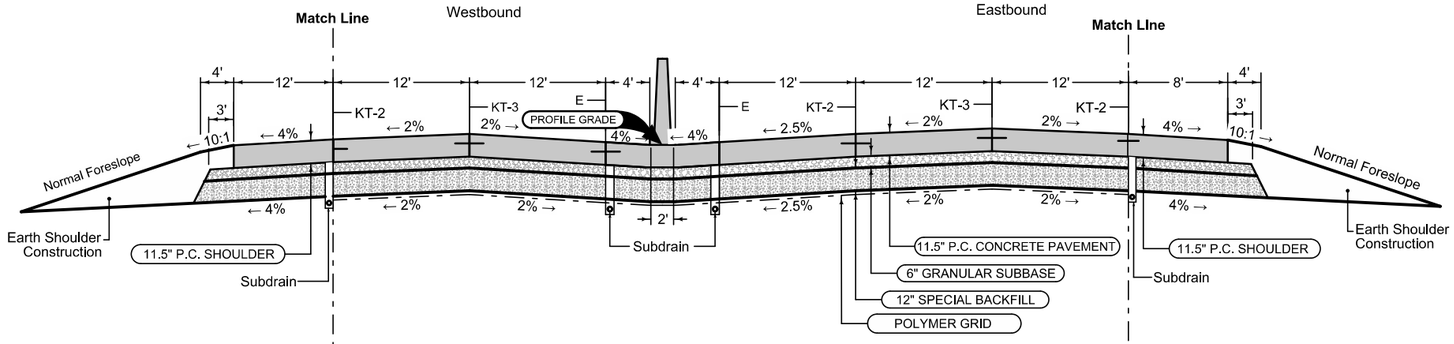


Full Depth PCC Shoulder

Shoulder Jointing:
Longitudinal joint: L-2 or KT-2
Transverse joints: C at 20' spacing

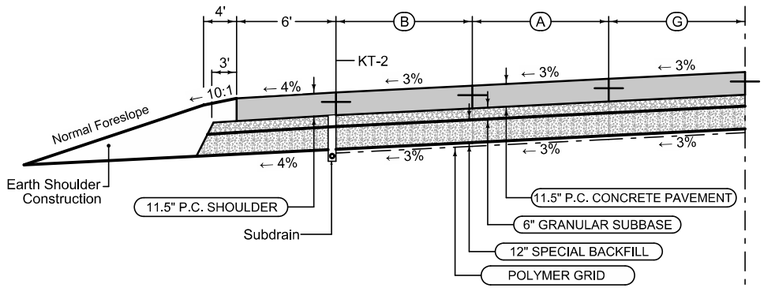
Direction of Travel	BEGIN STATION	END STATION
WB	109+65.00	110+00.00

Direction of Travel	STATION TO STATION	
EB/WB	105+60.40	110+00.00

Full Depth PCC Shoulder

Shoulder Jointing:
Longitudinal joint: L-2 or KT-2
Transverse joints: C at 20' spacing

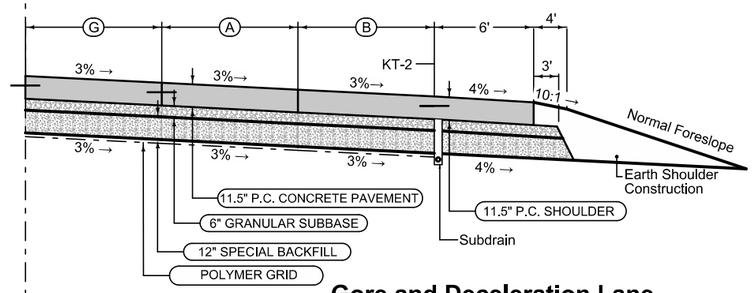
Direction of Travel	BEGIN STATION	END STATION
EB	109+10.00	110+00.00



Gore and Acceleration Lane
Full Depth PCC Shoulder

Shoulder Jointing:
Longitudinal joint: L-2 or KT-2
Transverse joints: C at 20' spacing

Direction of Travel	BEGIN STATION	END STATION	(B) Feet	(A) Feet	(G) Feet
WB	105+60.40	107+15.00	12	12-14.5	0
WB	107+15.00	109+65.00	12	12	2.5-21.6



Gore and Deceleration Lane
Full Depth PCC Shoulder

Shoulder Jointing:
Longitudinal joint: L-2 or KT-2
Transverse joints: C at 20' spacing

Direction of Travel	BEGIN STATION	END STATION	(G) Feet	(A) Feet	(B) Feet
EB	105+60.40	107+35.00	0	0.5-14.8	12
EB	107+35.00	109+10.00	2.8-23.8	12	12

FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER B.11

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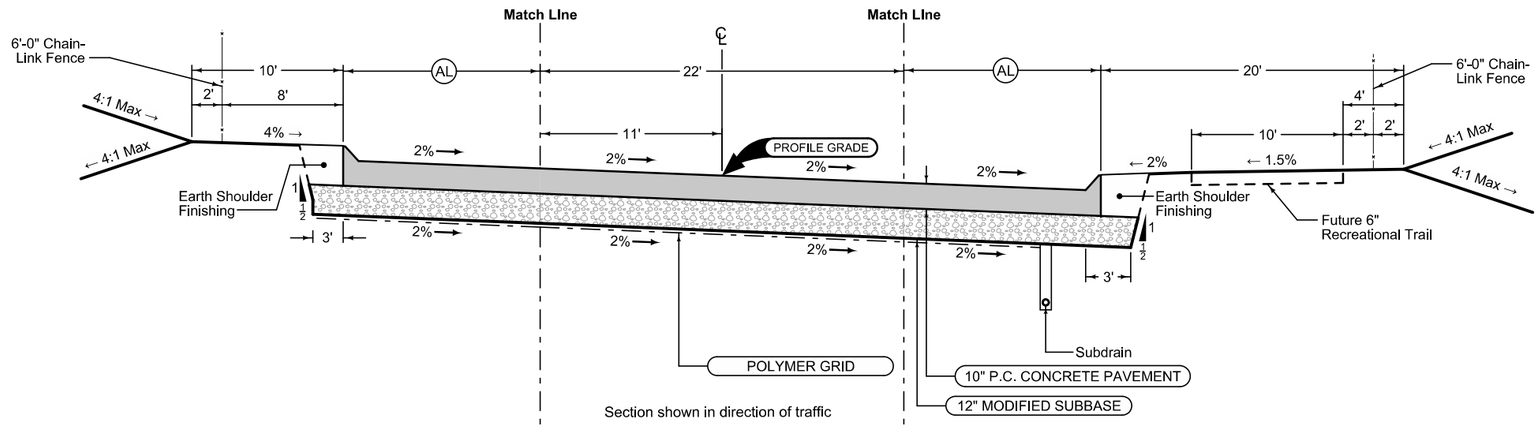
Auxiliary Lane

STATION TO STATION		(AL) Feet
1192+33.57	1193+57.00	11.5
1193+57.00	1195+22.00	11.5-0



Section shown in direction of traffic

Auxiliary Lane

STATION TO STATION		(AL) Feet
1192+33.57	1193+57.00	11.5
1193+57.00	1195+22.00	11.5-0

Mainline Jointing:
Transverse joints: CD at 20' spacing
Longitudinal joint: L-2

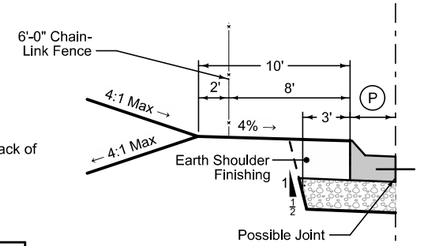
		2P_ 10-18-16
ROAD IDENTIFICATION	BEGIN STATION	END STATION
WB W. Broadway	1192+33.57	1199+07.38

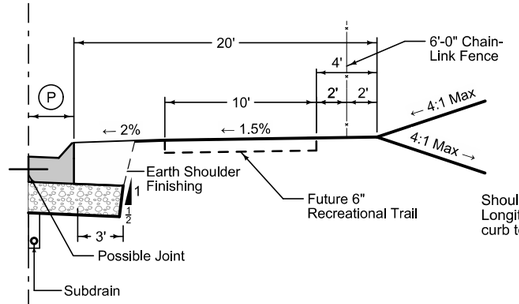
Curbed Shoulder

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

Single pour: L-2
Staged : KT-2
Transverse:C at 20' spacing

			2_Curb_ 04-19-11
STATION TO STATION		(P) Feet	Curb Type See PV-102
1195+22.00	1199+07.38	3	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 : KT-2
Transverse:C at 20' spacing

			2_Curb_ 04-19-11
STATION TO STATION		(P) Feet	Curb Type See PV-102
1195+22.00	1199+07.38	3	6" Standard

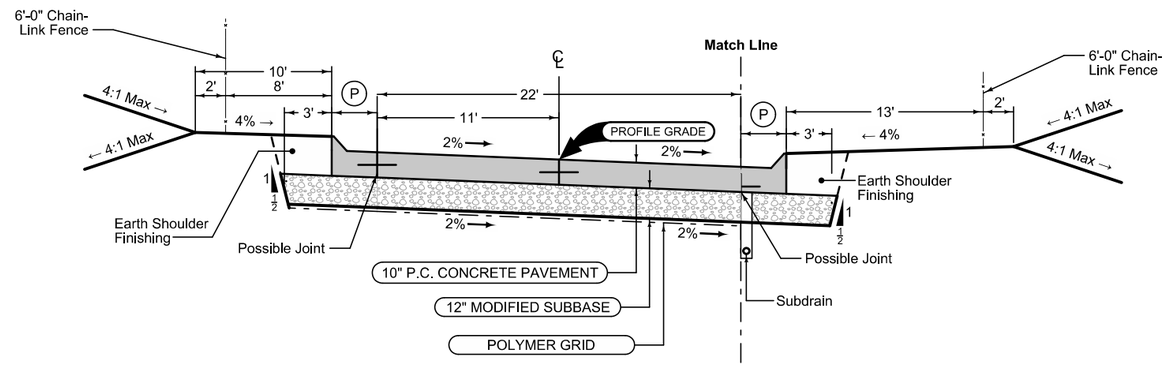
WB W. BROADWAY

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 : KT-2
Transverse:C at 20' spacing

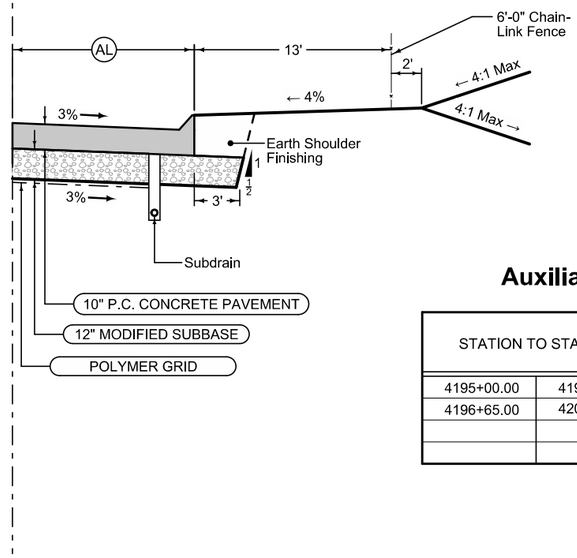
			2_Curb_ 04-19-11
STATION TO STATION		(P) Feet	Curb Type See PV-102
4192+13.33	4200+09.02	3	6" Standard



Section shown in direction of traffic

Mainline Jointing:
Transverse joints: CD at 20' spacing
Longitudinal joint: L-2

			2P_ 10-18-16
ROAD IDENTIFICATION		BEGIN STATION	END STATION
EB W. Broadway		4192+13.33	4200+09.02



Curbed Shoulder

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

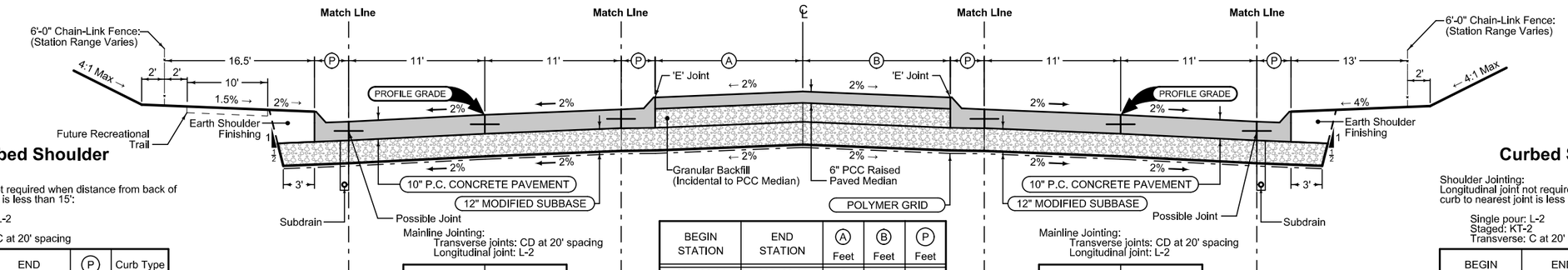
Single pour: L-2
Staged : KT-2
Transverse:C at 20' spacing

			2_Curb_ 04-19-11
STATION TO STATION		(P) Feet	Curb Type See PV-102
4192+13.33	4195+00.00	3	6" Standard

Auxiliary Lane

STATION TO STATION		(AL) Feet
4195+00.00	4196+65.00	0-11.5
4196+65.00	4200+09.02	11.5

EB W. BROADWAY



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: KT-2
Transverse: C at 20' spacing

BEGIN STATION	END STATION	(P) Feet	Curb Type See PV-102
200+77.45	203+03.93	2.5	6" Standard
204+27.50	206+73.61	2.5	6" Standard

Mainline Jointing:
Transverse joints: CD at 20' spacing
Longitudinal joint: L-2

BEGIN STATION	END STATION
200+77.45	206+73.61

BEGIN STATION	END STATION	(A) Feet	(B) Feet	(P) Feet
201+39.31	202+29.31	2	Varies	2.5
205+47.82	206+37.82	Varies	2	2.5

Mainline Jointing:
Transverse joints: CD at 20' spacing
Longitudinal joint: L-2

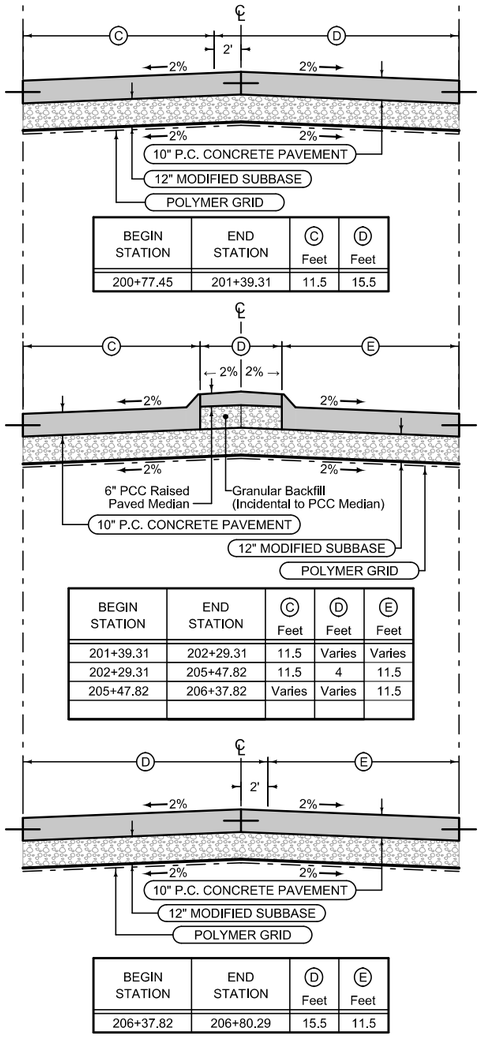
BEGIN STATION	END STATION
201+27.97	206+80.29

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: KT-2
Transverse: C at 20' spacing

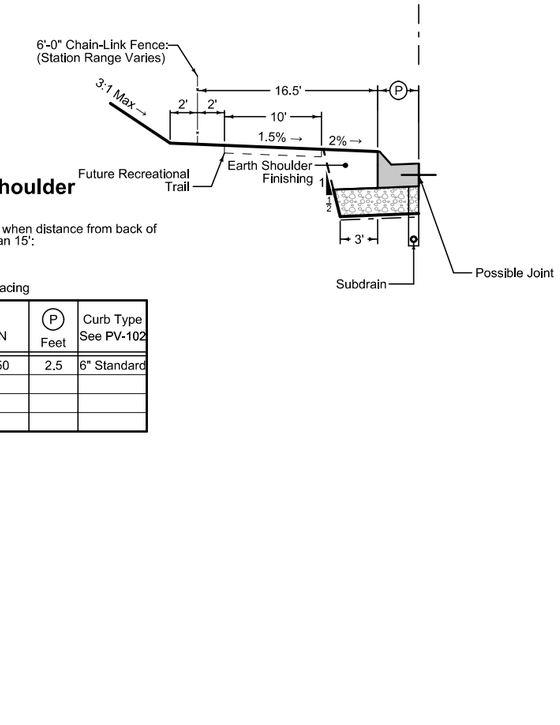
BEGIN STATION	END STATION	(P) Feet	Curb Type See PV-102
201+27.97	203+43.94	2.5	6" Standard
204+67.51	206+80.29	2.5	6" Standard



BEGIN STATION	END STATION	(C) Feet	(D) Feet
200+77.45	201+39.31	11.5	15.5

BEGIN STATION	END STATION	(C) Feet	(D) Feet	(E) Feet
201+39.31	202+29.31	11.5	Varies	Varies
202+29.31	205+47.82	11.5	4	11.5
205+47.82	206+37.82	Varies	Varies	11.5

BEGIN STATION	END STATION	(D) Feet	(E) Feet
206+37.82	206+80.29	15.5	11.5

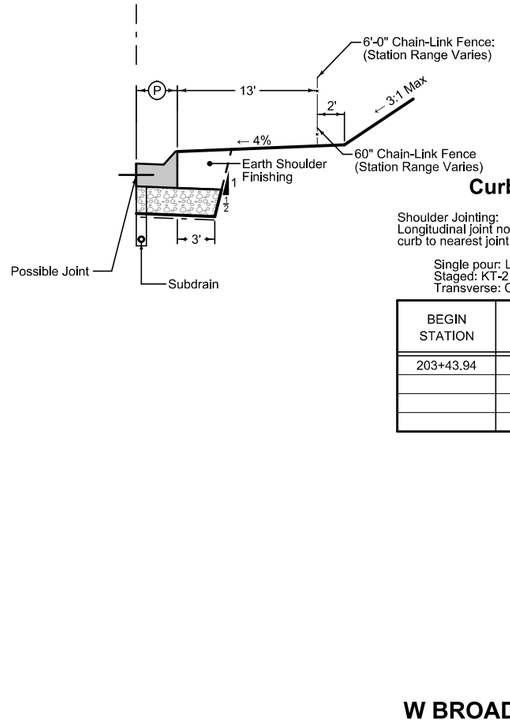


Curbed Shoulder

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

Single pour: L-2
Staged: KT-2
Transverse: C at 20' spacing

BEGIN STATION	END STATION	(P) Feet	Curb Type See PV-102
203+03.93	204+27.50	2.5	6" Standard



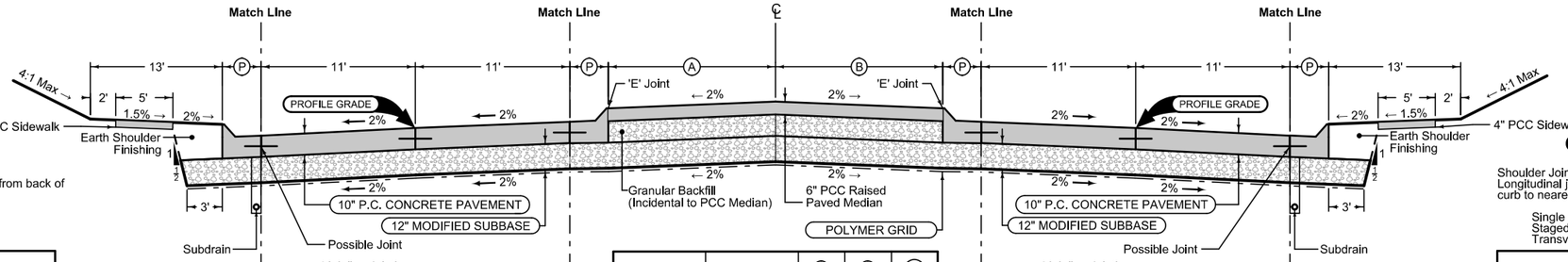
Curbed Shoulder

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

Single pour: L-2
Staged: KT-2
Transverse: C at 20' spacing

BEGIN STATION	END STATION	(P) Feet	Curb Type See PV-102
203+43.94	204+67.51	2.5	6" Standard

W BROADWAY



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: KT-2
Transverse: C at 20' spacing

BEGIN STATION	END STATION	(P) Feet	Curb Type See PV-102
211+03.78	213+07.53	2.5	6" Standard

Mainline Jointing:
Transverse joints: CD at 20' spacing
Longitudinal joint: L-2

BEGIN STATION	END STATION
207+96.56	213+07.53

BEGIN STATION	END STATION	(A) Feet	(B) Feet	(P) Feet
207+96.56	209+03.16	11	11	2.5
209+03.16	209+53.71	Varies	Varies	2.5
209+53.71	211+03.16	Varies	Varies	2.5
211+03.16	213+07.53	3	3	2.5

Mainline Jointing:
Transverse joints: CD at 20' spacing
Longitudinal joint: L-2

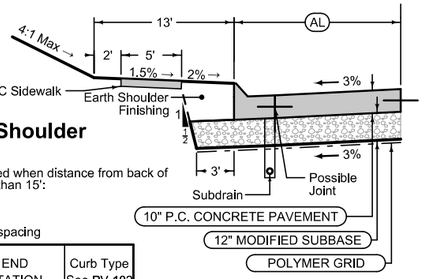
BEGIN STATION	END STATION
208+30.04	213+07.53

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: KT-2
Transverse: C at 20' spacing

BEGIN STATION	END STATION	(P) Feet	Curb Type See PV-102
208+30.04	213+07.53	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: KT-2
Transverse: C at 20' spacing

BEGIN STATION	END STATION	Curb Type See PV-102
207+96.56	211+03.78	6" Standard

Auxiliary Lane

BEGIN STATION	END STATION	(AL) Feet
207+96.56	209+53.71	11.5
209+53.71	211+03.78	Varies

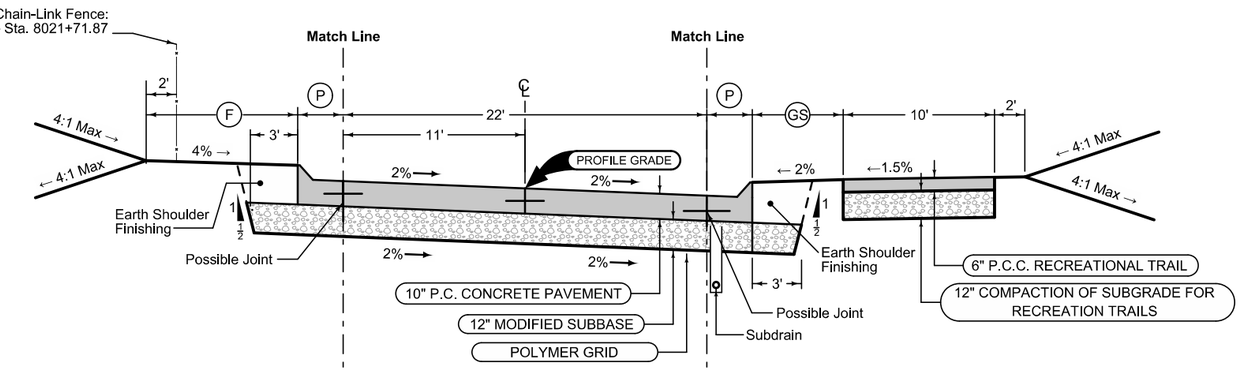
W BROADWAY

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 : KT-2
Transverse:C at 20' spacing

				2_Curb_ 04-19-11
STATION TO STATION		(P) Feet	(F) Feet	Curb Type See PV-102
8008+00.00	8020+81.98	3	10	6" Standard
8020+81.98	8020+99.12	3	10-22	6" Standard
8020+99.12	8021+71.87	3	22	6" Standard



Section shown in direction of traffic

Curbed Shoulder

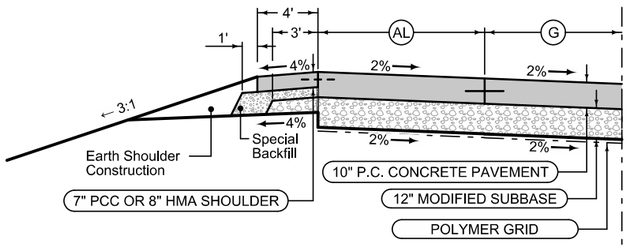
Shoulder Jointing:
Longitudinal joint not required when distance from back of curb to nearest joint is less than 15':

Single pour: L-2
Staged : KT-2
Transverse:C at 20' spacing

				2_Curb_ 04-19-11
STATION TO STATION		(GS) Feet	(P) Feet	Curb Type See PV-102
8010+60.00	8012+78.18	6	3	6" Standard
8013+63.19	8018+55.00	6	3	6" Standard
8018+55.00	8018+75.00	6-4	3	6" Standard
8018+75.00	8020+30.00	4	3	6" Standard
8020+30.00	8020+50.00	4-6	3	6" Standard
8020+50.00	8021+71.87	6	3	6" Standard

Mainline Jointing:
Transverse joints: CD at 20' spacing
Longitudinal joint: L-2

			2P_ 10-18-16
ROAD IDENTIFICATION	BEGIN STATION	END STATION	
NB Frontage Rd.	8001+16.55	8021+71.87	



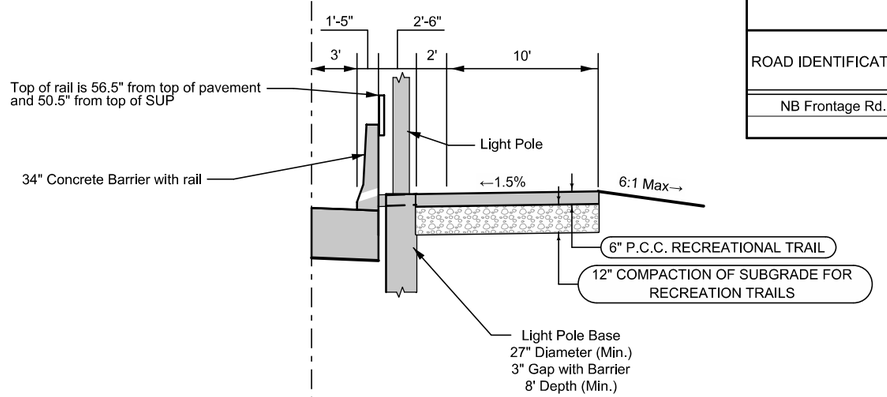
Gore and Acceleration Lane Full Depth PCC Shoulder

Shoulder Jointing:
Longitudinal joint: L-2 or KT-2
Transverse joints: C at 20' spacing

STATION TO STATION		(G) Feet	(AL) Feet
8001+16.55	8002+89.29	0	0
8002+89.29	8005+29.41	0	0-16
8005+29.41	8008+00.00	0-18.1	16

Concrete Barrier Access Control

		2P_ 10-18-16
ROAD IDENTIFICATION	BEGIN STATION	END STATION
NB Frontage Rd.	8001+20.00	8010+60.00



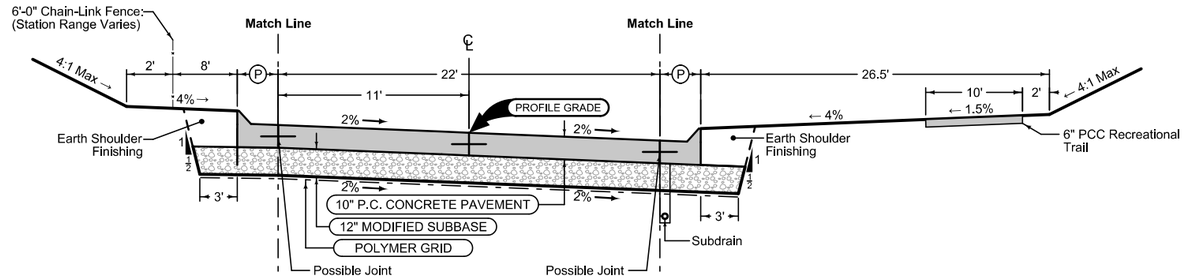
NB FRONTAGE RD.

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: KT-2
Transverse: C at 20' spacing

BEGIN STATION	END STATION	(P) Feet	Curb Type See PV-102
8022+95.20	8023+50.00	3	6" Standard
8031+27.28	8051+98.65	3	6" Standard



Mainline Jointing:
Transverse joints: CD at 20' spacing
Longitudinal joint: L-2

BEGIN STATION	END STATION
8022+95.20	8029+59.49
8031+27.28	8051+98.65

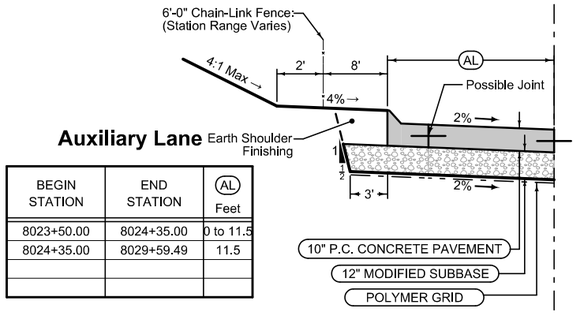
Curbed Shoulder

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

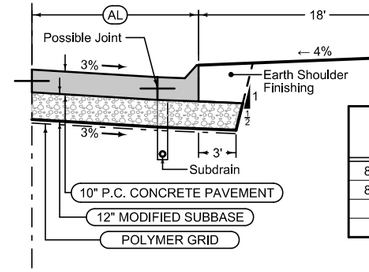
Single pour: L-2
Staged: KT-2
Transverse: C at 20' spacing

BEGIN STATION	END STATION	Curb Type See PV-102
8023+50.00	8029+59.49	6" Standard

Auxiliary Lane



BEGIN STATION	END STATION	(AL) Feet
8023+50.00	8024+35.00	0 to 11.5
8024+35.00	8029+59.49	11.5



Auxiliary Lane

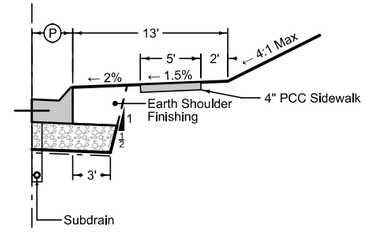
BEGIN STATION	END STATION	(AL) Feet
8025+45.00	8026+30.00	0 to 11.5
8026+30.00	8028+88.58	11.5

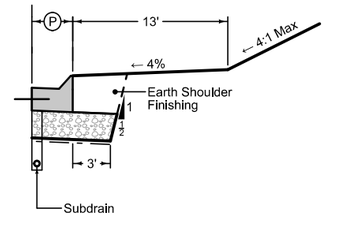
Curbed Shoulder

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

Single pour: L-2
Staged: KT-2
Transverse: C at 20' spacing

BEGIN STATION	END STATION	Curb Type See PV-102
8025+45.00	8028+88.58	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: KT-2
Transverse: C at 20' spacing

BEGIN STATION	END STATION	(P) Feet	Curb Type See PV-102
8023+40.91	8024+27.68	3	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: KT-2
Transverse: C at 20' spacing

BEGIN STATION	END STATION	(P) Feet	Curb Type See PV-102
8031+27.28	8032+90.86	3	6" Standard
8033+94.29	8036+15.12	3	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: KT-2
Transverse: C at 20' spacing

BEGIN STATION	END STATION	(P) Feet	Curb Type See PV-102
8037+06.68	8042+84.58	3	6" Standard
8043+60.59	8051+98.65	3	6" Standard

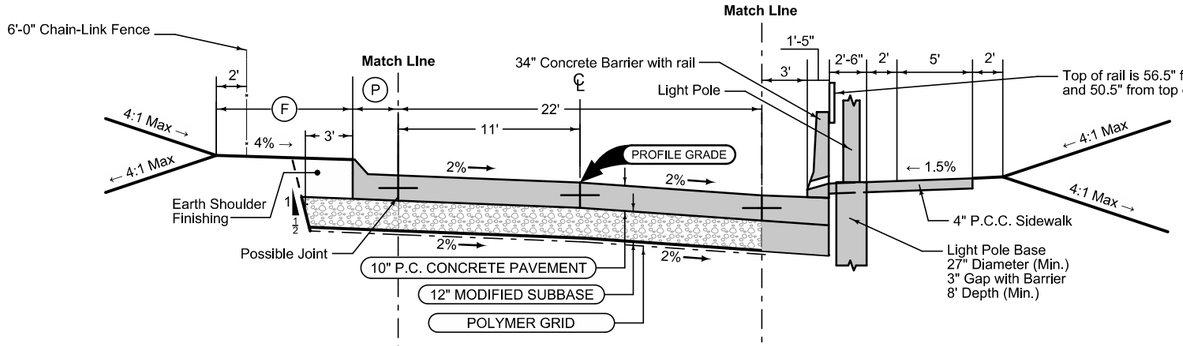
NB FRONTAGE RD.

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 : KT-2
Transverse:C at 20' spacing

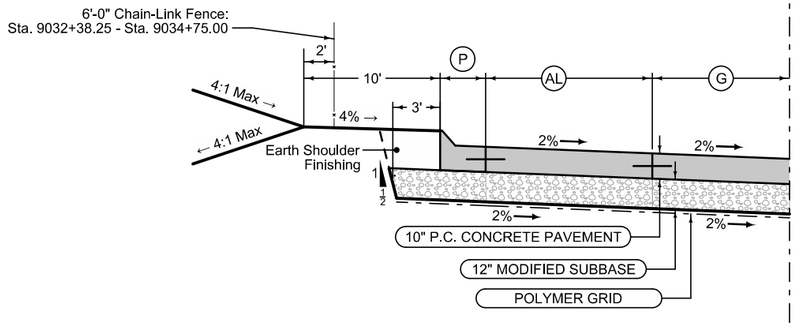
2_Curb_ 04-19-11				
STATION TO STATION		(P) Feet	(F) Feet	Curb Type See PV-102
9011+40.00	9021+72.84	3	10	6" Standard
9023+33.56	9030+13.70	3	10	6" Standard
9034+75.00	9038+54.09	3	10	6" Standard
9038+54.09	9039+54.09	3	10-6	6" Standard
9039+54.09	9053+26.37	3	6	6" Standard



Section shown in direction of traffic

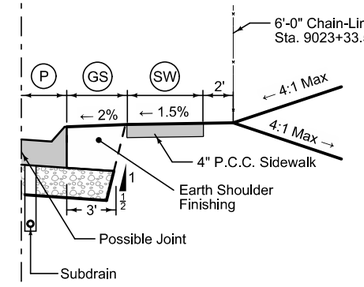
Mainline Jointing:
Transverse joints: CD at 20' spacing
Longitudinal joint: L-2

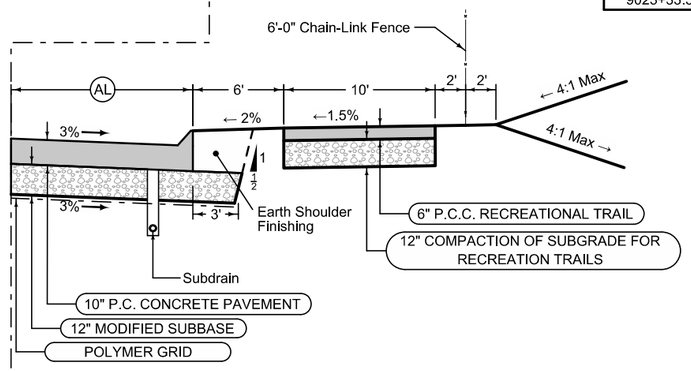
2P_ 10-18-16		
ROAD IDENTIFICATION	BEGIN STATION	END STATION
SB Frontage Rd.	9000+99.02	9021+72.84
SB Frontage Rd.	9023+33.56	9030+13.70
SB Frontage Rd.	9032+38.25	9053+26.36

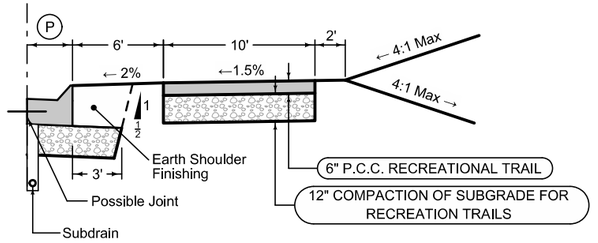


Gore and Auxiliary Lane

2_Curb_ 04-19-11					
STATION TO STATION		(AL) Feet	(G) Feet	(P) Feet	Curb Type See PV-102
9000+99.01	9007+90.08	11	0	5	4" Sloped
9007+90.08	9011+40.00	11-16	0-20.6	5	4" Sloped
9032+38.25	9033+10.00	11.5	0	0.5	6" Standard
9033+10.00	9034+75.00	11.5-0	0	0.5-3	6" Standard







Concrete Barrier Access Control

2P_ 10-18-16		
ROAD IDENTIFICATION	BEGIN STATION	END STATION
SB Frontage Rd.	9001+20.00	9015+00.00

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 : KT-2
Transverse:C at 20' spacing

2_Curb_ 04-19-11					
STATION TO STATION		(GS) Feet	(SW) Feet	(P) Feet	Curb Type See PV-102
9000+99.02	9001+20.00	4	5	3	6" Standard
9015+00.00	9015+45.21	4	5	3	6" Standard
9016+30.13	9018+60.69	4	5	3	6" Standard
9019+50.23	9020+00.00	4	5	3	6" Standard
9020+20.00	9020+40.00	4-0	5-6	3	6" Standard
9020+40.00	9021+72.84	0	6	3	6" Standard
9023+33.56	9030+13.70	4	5	3	6" Standard

Auxiliary Lane

STATION TO STATION		(AL) Feet
9032+38.25	9035+35.00	11.5
9035+35.00	9037+00.00	11.5-0

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 : KT-2
Transverse:C at 20' spacing

2_Curb_ 04-19-11			
STATION TO STATION		(P) Feet	Curb Type See PV-102
9037+00.00	9037+12.57	3	6" Standard
9037+99.37	9043+77.55	3	6" Standard
9044+65.92	9053+26.36	3	6" Standard

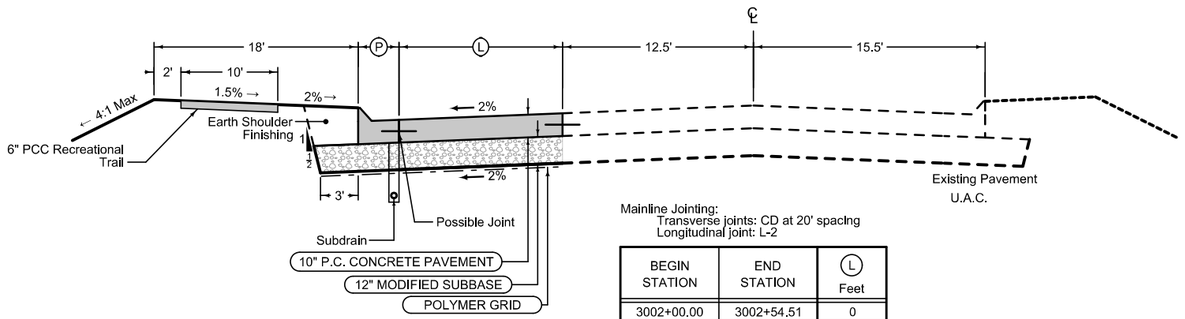
SB FRONTAGE RD.

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: KT-2
Transverse: C at 20' spacing

BEGIN STATION	END STATION	(P) Feet	Curb Type See PV-102
3002+00.00	3005+00.00	3	6" Standard



Mainline Jointing:
Transverse joints: CD at 20' spacing
Longitudinal joint: L-2

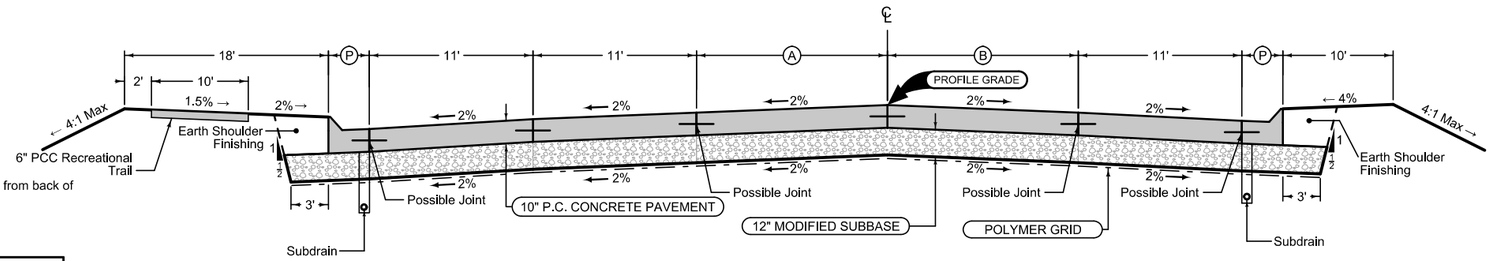
BEGIN STATION	END STATION	(L) Feet
3002+00.00	3002+54.51	0
3002+54.51	3004+80.16	0 to 11
3004+80.16	3005+00.00	11

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: KT-2
Transverse: C at 20' spacing

BEGIN STATION	END STATION	(P) Feet	Curb Type See PV-102
3005+00.00	3006+53.64	3	6" Standard



Mainline Jointing:
Transverse joints: CD at 20' spacing
Longitudinal joint: L-2

BEGIN STATION	END STATION
3005+00.00	3005+53.72

BEGIN STATION	END STATION	(A) Feet	(B) Feet
3005+00.00	3005+12.70	5.5	7
3005+12.70	3005+53.64	5.5 to 6.65	7 to 8.10

Mainline Jointing:
Transverse joints: CD at 20' spacing
Longitudinal joint: L-2

BEGIN STATION	END STATION
3005+00.00	3005+00.00

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: KT-2
Transverse: C at 20' spacing

BEGIN STATION	END STATION	(P) Feet	Curb Type See PV-102
3005+00.00	3005+00.00	3	6" Standard

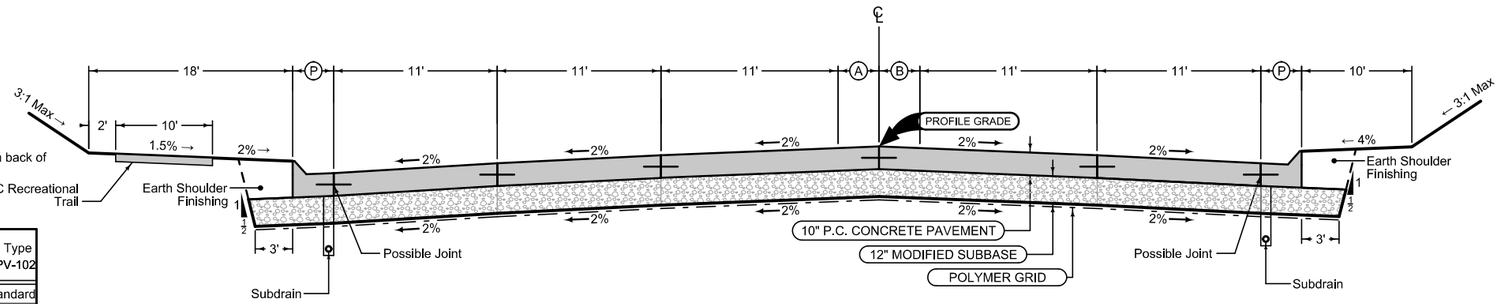
9TH AVE.

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: KT-2
Transverse: C at 20' spacing

BEGIN STATION	END STATION	(P) Feet	Curb Type See PV-102
3007+02.12	3008+99.44	2	6" Standard



Mainline Jointing:
Transverse joints: CD at 20' spacing
Longitudinal joint: L-2

BEGIN STATION	END STATION
3007+02.12	3008+99.44

BEGIN STATION	END STATION	(A) Feet	(B) Feet
3007+01.32	3008+81.27	2	2

Mainline Jointing:
Transverse joints: CD at 20' spacing
Longitudinal joint: L-2

BEGIN STATION	END STATION
3007+01.32	3008+81.27

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: KT-2
Transverse: C at 20' spacing

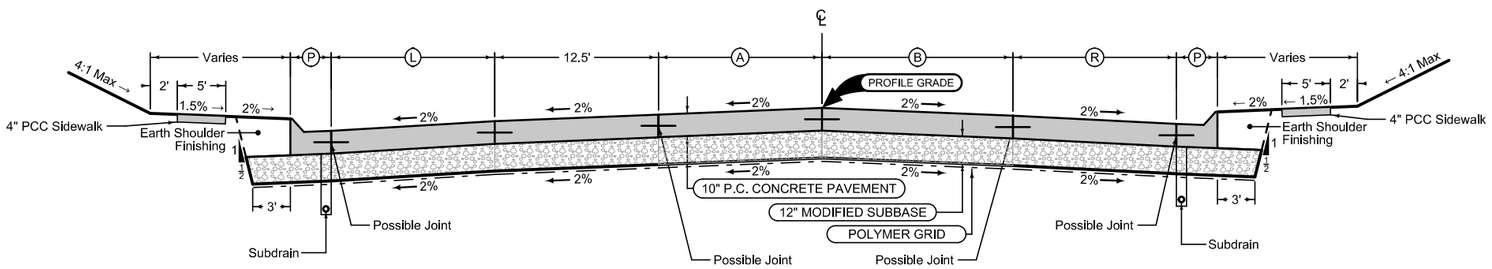
BEGIN STATION	END STATION	(P) Feet	Curb Type See PV-102
3007+01.32	3008+81.27	2	6" Standard

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: KT-2
Transverse: C at 20' spacing

BEGIN STATION	END STATION	(P) Feet	Curb Type See PV-102
3010+01.96	3011+80.00	2	6" Standard



Mainline Jointing:
Transverse joints: CD at 20' spacing
Longitudinal joint: L-2

BEGIN STATION	END STATION	(L) Feet
3010+01.96	3011+80.00	10 to 0

BEGIN STATION	END STATION	(A) Feet	(B) Feet
3010+01.96	3011+80.00	13 to 0	13 to 0

Mainline Jointing:
Transverse joints: CD at 20' spacing
Longitudinal joint: L-2

BEGIN STATION	END STATION	(R) Feet
3009+92.02	3010+99.61	Varies
3010+99.61	3011+80.00	12.5

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: KT-2
Transverse: C at 20' spacing

BEGIN STATION	END STATION	(P) Feet	Curb Type See PV-102
3009+92.02	3011+80.00	2	6" Standard

9TH AVE.

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: KT-2
Transverse: C at 20' spacing

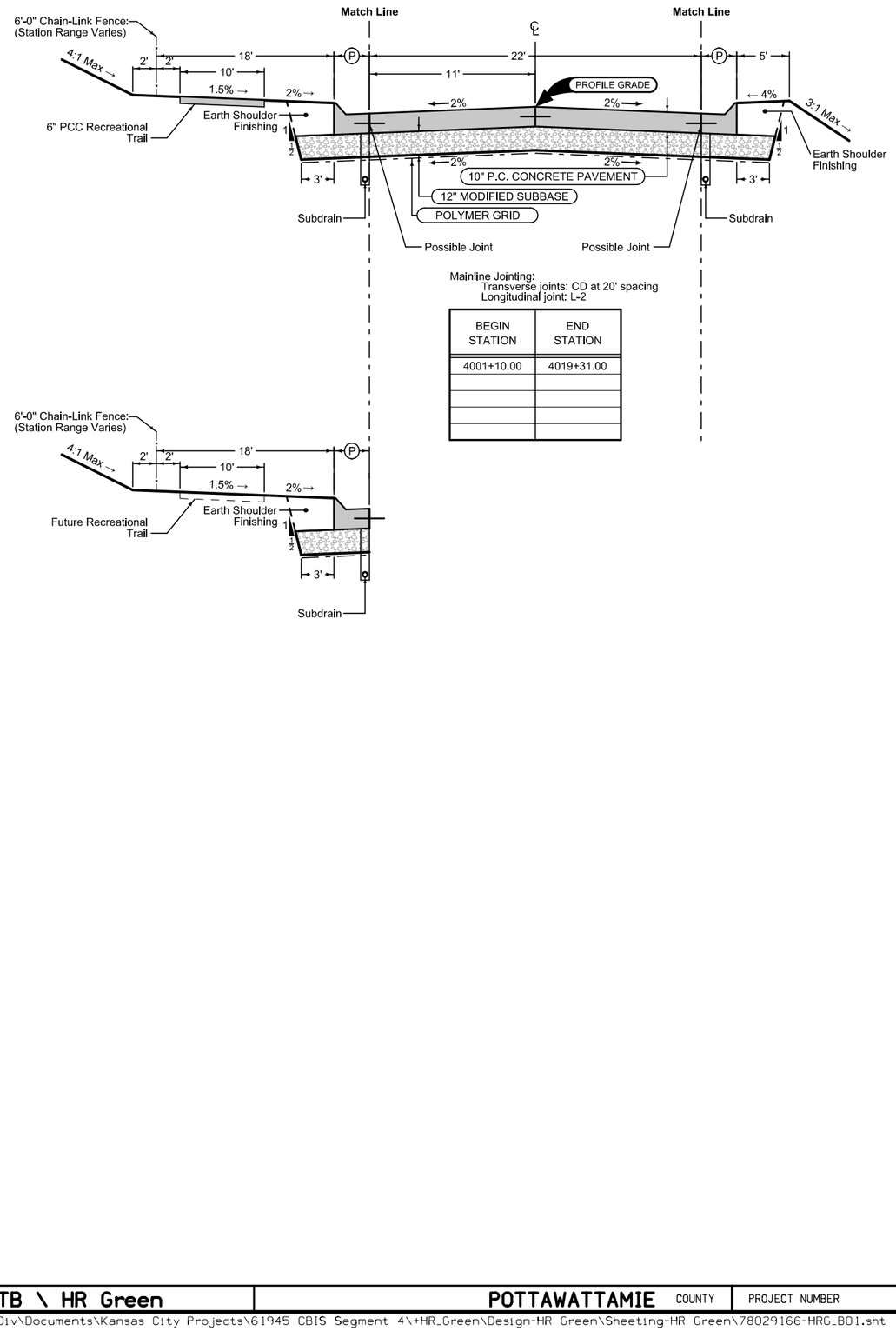
BEGIN STATION	END STATION	(P) Feet	Curb Type See PV-102
4007+60.40	4019+31.00	3	6" Standard

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: KT-2
Transverse: C at 20' spacing

BEGIN STATION	END STATION	(P) Feet	Curb Type See PV-102
4001+10.00	4001+35.00	3	6" Standard
4002+43.00	4005+38.09	3	6" Standard



Mainline Jointing:
Transverse joints: CD at 20' spacing
Longitudinal joint: L-2

BEGIN STATION	END STATION
4001+10.00	4019+31.00

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: KT-2
Transverse: C at 20' spacing

BEGIN STATION	END STATION	(P) Feet	Curb Type See PV-102
4001+10.00	4001+56.60	3	6" Standard
4002+24.60	4014+61.66	3	6" Standard
4015+52.83	4017+94.11	3	6" Standard
4018+85.38	4019+07.58	3	6" Standard
4019+25.68	4019+32.17	3	6" Standard
4019+50.11	4020+10.75	3	6" Standard

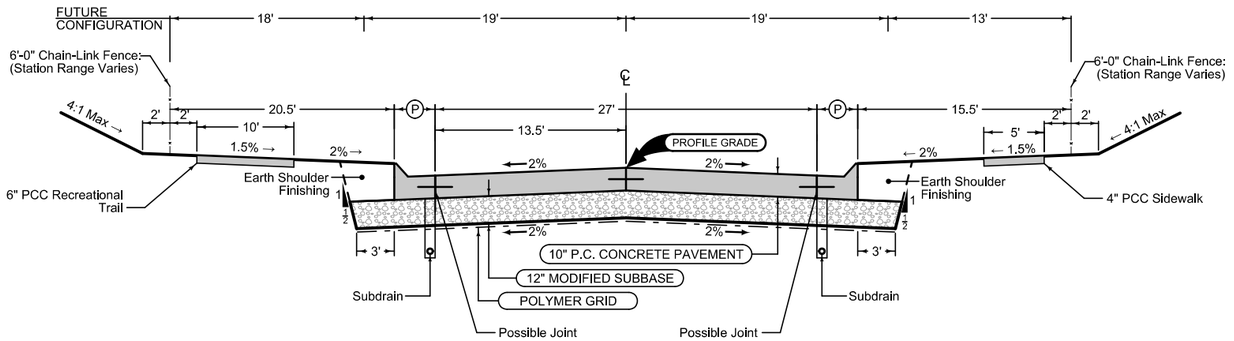
DODGE RIVERSIDE DR.

Curbed Shoulder

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

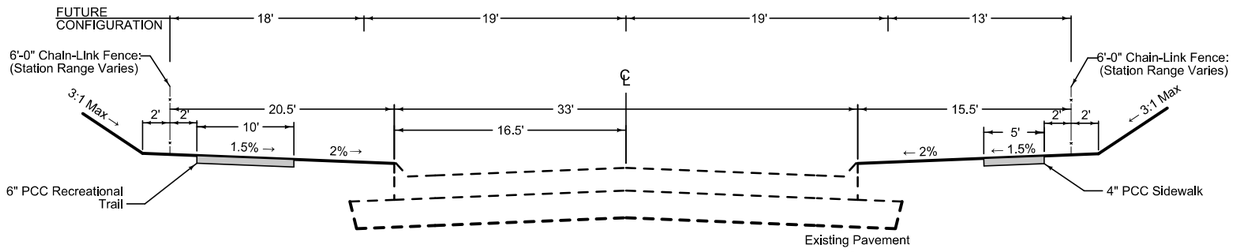
Single pour: L-2
Staged: KT-2
Transverse: C at 20' spacing

BEGIN STATION	END STATION	(P) Feet	Curb Type See PV-102
5000+41.19	5001+00.00	3	6" Standard



Mainline Jointing:
Transverse joints: CD at 20' spacing
Longitudinal joint: L-2

BEGIN STATION	END STATION
5000+82.86	5001+00.00



BEGIN STATION	END STATION
5001+00.00	5003+80.71

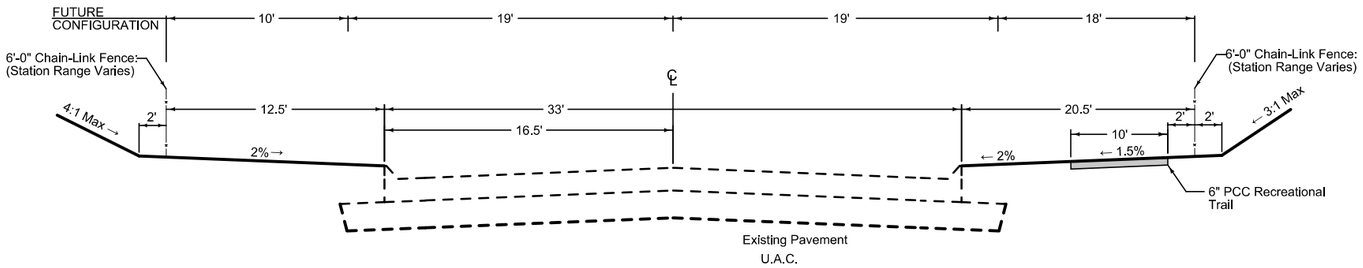
Curbed Shoulder

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

Single pour: L-2
Staged: KT-2
Transverse: C at 20' spacing

BEGIN STATION	END STATION	(P) Feet	Curb Type See PV-102
5000+82.86	5001+00.00	3	6" Standard

2ND AVE.



BEGIN STATION	END STATION
6001+31.09	6002+13.97
6003+45.32	6006+16.44

AVE. G

FILE NO.	ENGLISH	DESIGN TEAM Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER IM-029-3(166)54--13-78	SHEET NUMBER B.23	

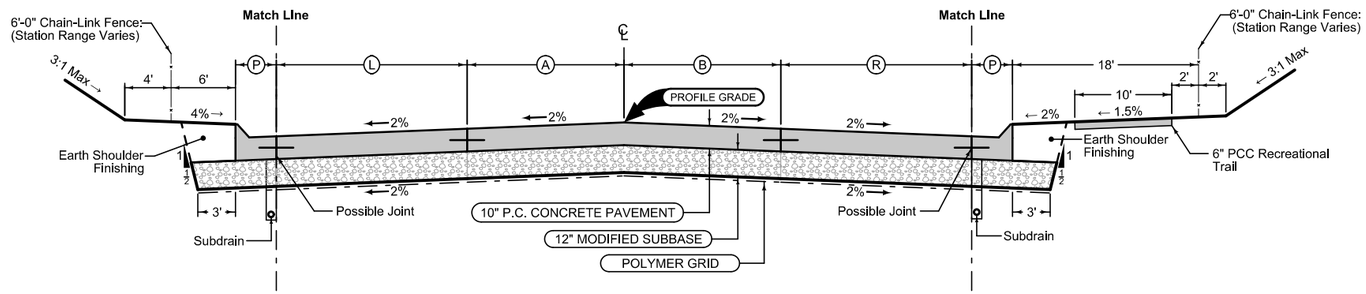
8:38:35 AM 10/26/2017 mplummer pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\+HR_Green\Design-HR Green\Sheeting-HR Green\78029166-HRG_B01.sht

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: KT-2
Transverse: C at 20' spacing

BEGIN STATION	END STATION	(P) Feet	Curb Type See PV-102
7002+12.45	7004+86.83	2	6" Standard



Mainline Jointing:
Transverse joints: CD at 20' spacing
Longitudinal joint: L-2

BEGIN STATION	END STATION	(L) Feet
7000+47.12	7000+94.38	Varies
7002+12.45	7005+95.00	11
7005+95.00	7007+00.00	11 to 10

BEGIN STATION	END STATION	(A) Feet	(B) Feet
7000+47.12	7005+95.00	6	6
7005+95.00	7007+00.00	6 to 0	6 to 0

Mainline Jointing:
Transverse joints: CD at 20' spacing
Longitudinal joint: L-2

BEGIN STATION	END STATION	(R) Feet
7000+47.12	7001+10.25	Varies
7002+22.51	7005+95.00	11
7005+95.00	7007+00.00	11 to 10

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: KT-2
Transverse: C at 20' spacing

BEGIN STATION	END STATION	(P) Feet	Curb Type See PV-102
7002+22.51	7005+09.06	2	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: KT-2
Transverse: C at 20' spacing

BEGIN STATION	END STATION	(P) Feet	Curb Type See PV-102
7000+47.12	7000+94.38	2	6" Standard
7006+07.30	7007+00.00	2	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: KT-2
Transverse: C at 20' spacing

BEGIN STATION	END STATION	(P) Feet	Curb Type See PV-102
7000+58.23	7001+10.25	2	6" Standard
7006+09.72	7007+00.00	2	6" Standard

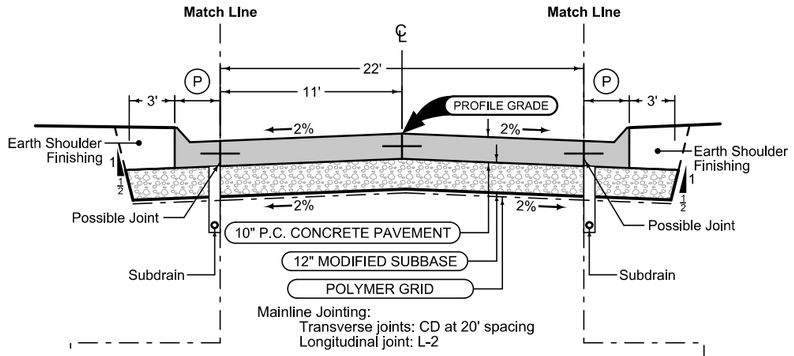
40TH ST.

Curbed Shoulder

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

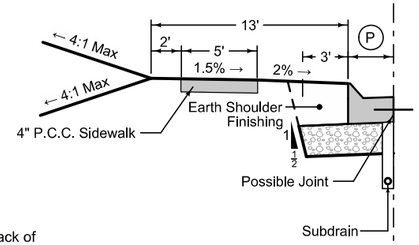
Single pour: L-2
Staged : KT-2
Transverse:C at 20' spacing

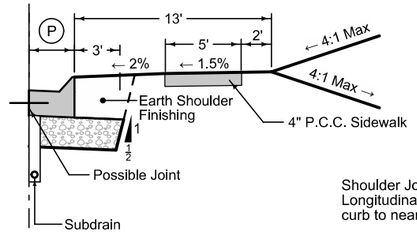
				2_Curb_ 04-19-11
ROAD IDENTIFICATION	STATION TO STATION		(P) Feet	Curb Type See PV-102
8th to 6th Conn.	8099+85.00	8107+50.00	2	6" Standard
4th to 3rd Conn.	8400+00.00	8404+20.00	2	6" Standard



Mainline Jointing:
Transverse joints: CD at 20' spacing
Longitudinal joint: L-2

			2P_ 10-18-16
ROAD IDENTIFICATION	BEGIN STATION	END STATION	
8th - 6th Conn.	8099+85.00	8107+50.00	
7th Ave.	8200+11.00	8200+60.00	
5th Ave.	8300+11.00	8300+70.00	
4th - 3rd Conn.	8400+00.00	8404+20.00	





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 : KT-2
Transverse:C at 20' spacing

				2_Curb_ 04-19-11
ROAD IDENTIFICATION	STATION TO STATION		(P) Feet	Curb Type See PV-102
5th Ave.	8300+11.00	8300+70.00	2	6" Standard
7th Ave.	8200+11.00	8200+60.00	2	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 : KT-2
Transverse:C at 20' spacing

				2_Curb_ 04-19-11
ROAD IDENTIFICATION	STATION TO STATION		(P) Feet	Curb Type See PV-102
7th Ave.	8199+11.00	8200+60.00	2	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 : KT-2
Transverse:C at 20' spacing

				2_Curb_ 04-19-11
ROAD IDENTIFICATION	STATION TO STATION		(P) Feet	Curb Type See PV-102
8th - 6th Conn.	8099+85.00	8107+50.00	2	6" Standard
5th Ave.	8300+11.00	8300+70.00	2	6" Standard
4th - 3rd Conn.	8400+00.00	8404+20.00	2	6" Standard

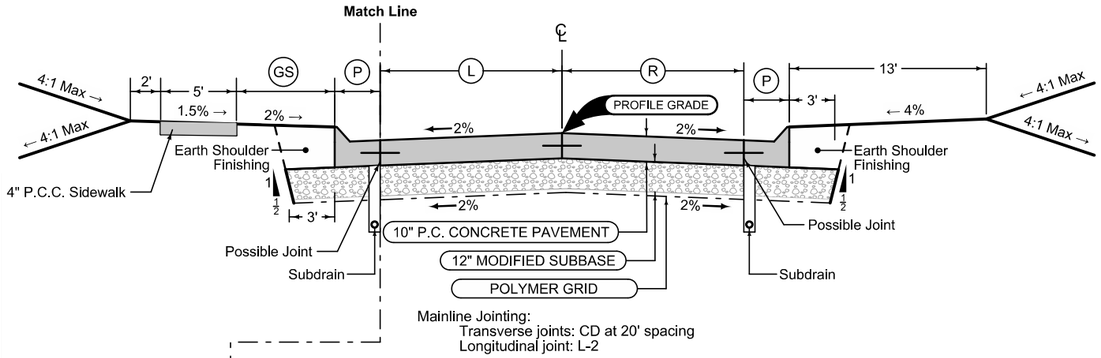
4TH TO 3RD CONN.
5TH AVE.
7TH AVE.
8TH TO 6TH CONN.

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 : KT-2
Transverse:C at 20' spacing

					2_Curb_ 04-19-11
ROAD IDENTIFICATION	STATION TO STATION		(P) Feet	(GS) Feet	Curb Type See PV-102
N 38th St.	9310+40.41	9312+61.00	2	4	6" Standard
W Ave. B	9300+50.00	9301+17.28	3.5	4	6" Standard
W Ave. B	9301+95.28	9302+11.88	3.5	4	6" Standard
W Ave. D	9400+70.00	9401+64.95	2	6	6" Standard



Mainline Jointing:
Transverse joints: CD at 20' spacing
Longitudinal joint: L-2

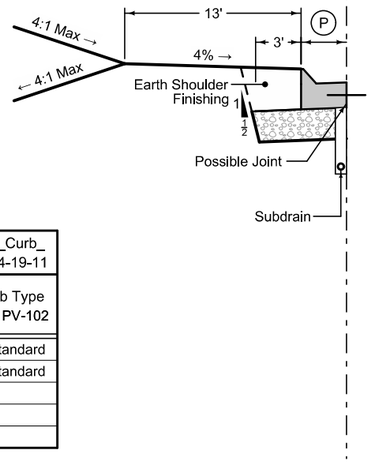
					2P_ 10-18-16
ROAD IDENTIFICATION	BEGIN STATION	END STATION	(L) Feet	(R) Feet	
W 4th Ave.	9100+49.00	9100+88.88	10	10	
W 3rd Ave	9200+45.00	9200+88.88	11	11	
N 38th St.	9310+12.00	9312+61.00	12	12	
W Ave. B	9300+50.00	9302+38.95	12	12	
W Ave. D	9400+70.00	9401+88.72	11	11	

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 : KT-2
Transverse:C at 20' spacing

				2_Curb_ 04-19-11
ROAD IDENTIFICATION	STATION TO STATION		(P) Feet	Curb Type See PV-102
W 4th Ave.	9100+49.00	9100+61.75	2	6" Standard
W 3rd Ave	9200+45.00	9200+61.78	2	6" Standard
N 38th St.	9310+40.59	9312+61.00	2	6" Standard
W Ave. B	9300+50.00	9302+02.08	3.5	6" Standard
W Ave. D	9400+70.00	9401+44.62	2	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 : KT-2
Transverse:C at 20' spacing

				2_Curb_ 04-19-11
ROAD IDENTIFICATION	STATION TO STATION		(P) Feet	Curb Type See PV-102
W 4th Ave.	9100+49.00	9100+49.29	2	6" Standard
W 3rd Ave	9200+45.00	9200+47.86	2	6" Standard

W 4TH AVE.
W 3RD AVE.
N. 38TH ST.
W AVE. B
W AVE. D

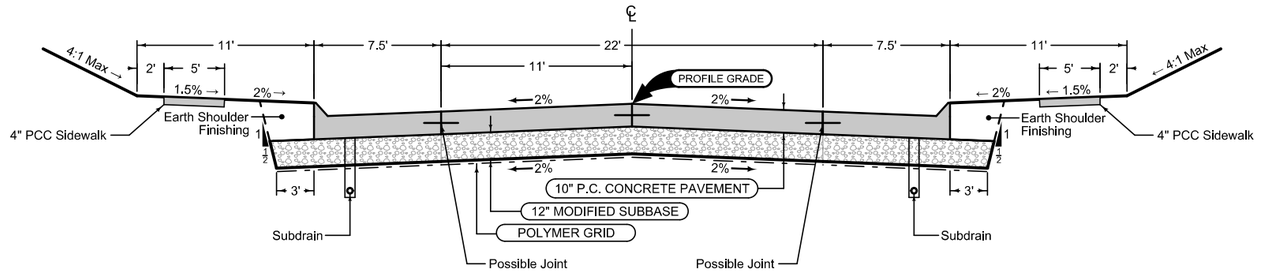
FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER B.26	

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: KT-2
Transverse: C at 20' spacing

BEGIN STATION	END STATION	Curb Type See PV-102
4600+55.60	4600+90.00	6" Standard



Mainline Jointing:
Transverse joints: CD at 20' spacing
Longitudinal joint: L-2

BEGIN STATION	END STATION
4600+55.60	4600+90.00

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: KT-2
Transverse: C at 20' spacing

BEGIN STATION	END STATION	Curb Type See PV-102
4600+55.60	4600+90.00	6" Standard

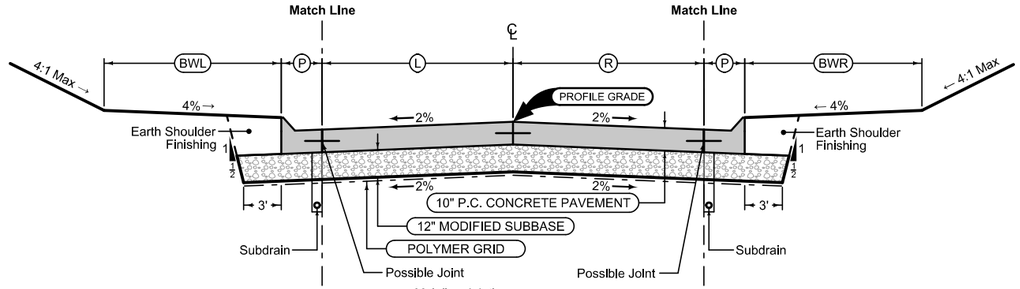
AVE. A

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: KT-2
Transverse: C at 20' spacing

ROAD IDENTIFICATION	BEGIN STATION	END STATION	(BWL)	(P) Feet	Curb Type See PV-102
W 2nd Ave.	4200+50.00	4200+70.45	13	3	6" Standard
Ave. D	4800+38.42	4800+42.83	13	3	6" Standard
N 37th St.	4300+50.00	4300+87.64	5	2	6" Standard



Mainline Jointing:
Transverse joints: CD at 20' spacing
Longitudinal joint: L-2

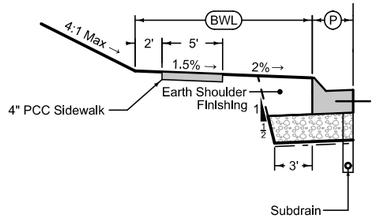
ROAD IDENTIFICATION	BEGIN STATION	END STATION	(L) Feet	(R) Feet
S 38th St.	4100+50.00	4100+57.35	10	10
W 2nd Ave.	4200+50.00	4200+70.45	10	10
Ave. D	4800+39.66	4800+42.76	10	10
N 37th St.	4300+50.00	4300+87.64	11	11
Ave. B	4700+49.30	4700+75.00	12.5	12.5

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: KT-2
Transverse: C at 20' spacing

ROAD IDENTIFICATION	BEGIN STATION	END STATION	(BWL)	(P) Feet	Curb Type See PV-102
Ave. B	4700+49.30	4700+75.00	13	3	6" Standard
S 38th St.	4100+50.00	4100+57.35	18	3	6" Standard
N 37th St.	4300+66.96	4301+99.03	13	3	6" Standard

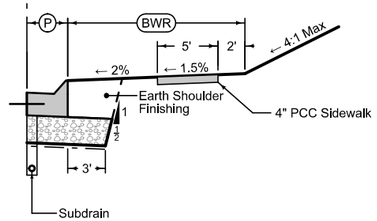


Curbed Shoulder

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

Single pour: L-2
Staged: KT-2
Transverse: C at 20' spacing

ROAD IDENTIFICATION	BEGIN STATION	END STATION	(BWR)	(P) Feet	Curb Type See PV-102
W 2nd Ave.	4200+50.00	4200+70.45	13	3	6" Standard
S 38th St.	4100+50.00	4100+57.35	13	3	6" Standard
Ave. D	4800+39.66	4800+42.76	13	3	6" Standard



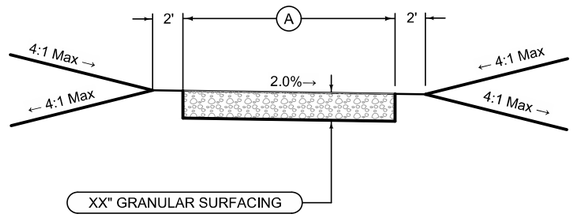
Curbed Shoulder

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

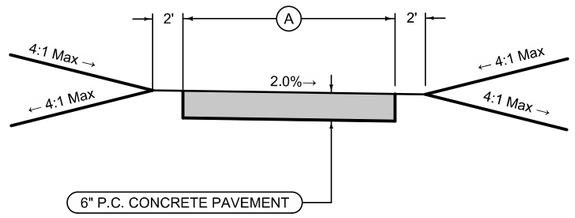
Single pour: L-2
Staged: KT-2
Transverse: C at 20' spacing

ROAD IDENTIFICATION	BEGIN STATION	END STATION	(BWR)	(P) Feet	Curb Type See PV-102
Ave. B	4700+49.30	4700+75.00	13	3	6" Standard
N 37th St.	4300+50.00	4300+87.64	7	2	6" Standard

S 38TH ST.
W 2ND AVE.
AVE. D
N 37TH ST.
AVE. B

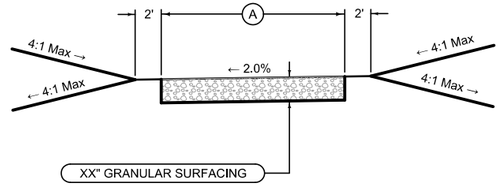


			2P_ 10-18-16
ROAD IDENTIFICATION	BEGIN STATION	END STATION	(A) Feet
6th Ave. Alley	8110+60.00	8112+11.39	14
3rd Ave. Alley	8410+85.00	8412+46.00	10



			2P_ 10-18-16
ROAD IDENTIFICATION	BEGIN STATION	END STATION	(A) Feet
6th Ave. Alley	8110+12.00	8110+60.00	14
3rd Ave. Alley	8410+13.04	8410+85.00	10

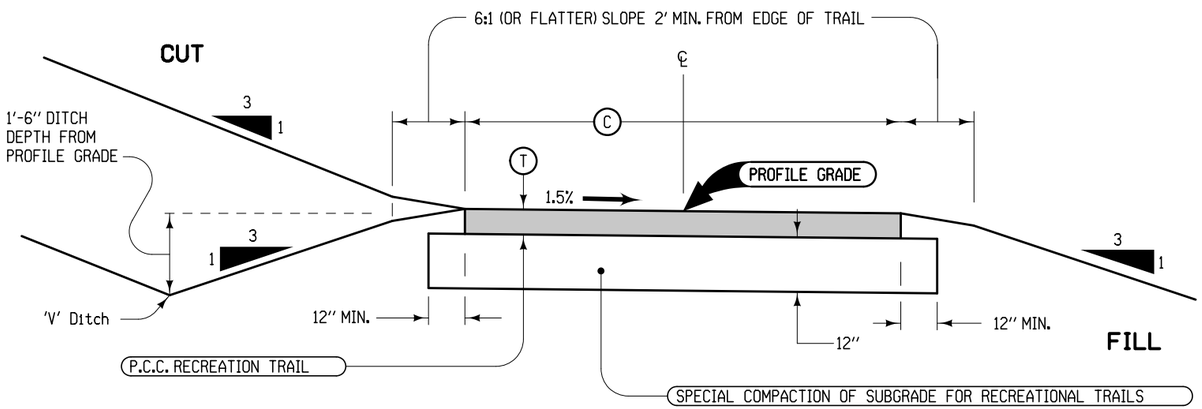
ALLEYS



Section shown in direction of traffic

ROAD IDENTIFICATION	BEGIN STATION	END STATION	(A) Feet
Ave. A Alley	8420+28.50	8421+50.50	12

AVE. A ALLEY



STATION TO STATION		PAVEMENT TYPE PCC, HMA, or option	(C) Feet	(T) Inches	'V' DITCH Left	'V' DITCH Right
		PCC	10	6		

TYPICAL CROSS SECTION RECREATIONAL TRAIL PAVED SURFACE

Paved Shoulder Alternates

PCC Shoulder Jointing:
Longitudinal joint: BT-1 or BT-5
Transverse joints: C at 20' spacing
HMA Shoulder Jointing:
Longitudinal joint: B

1R_P_ALT_ 10-21-14

ROAD IDENTIFICATION	BEGIN STATION	END STATION
9th Ave. Ramp D	4525+36.19	4533+48.07

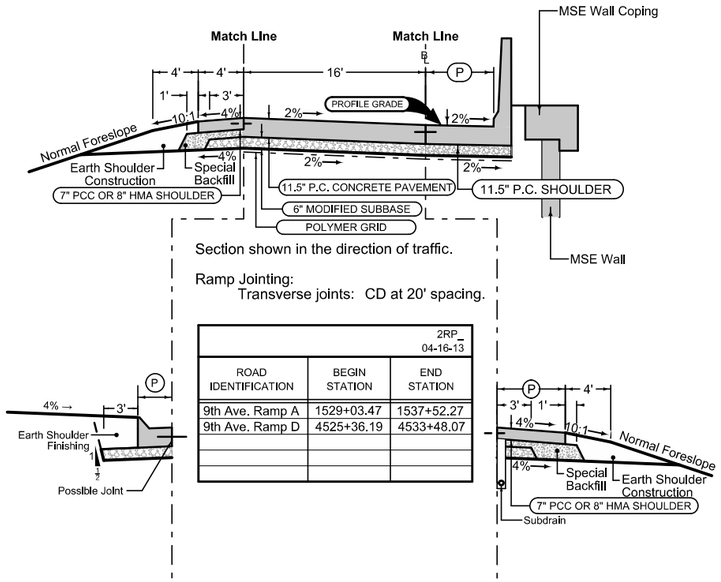
Curbed Shoulder

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

Single pour: L-2
Staged : KT-2
Transverse:C at 20' spacing

2_Curb_ 04-19-11

ROAD IDENTIFICATION	STATION TO STATION		Ⓟ Feet	Curb Type See PV-102
9th Ave. Ramp A	1529+03.47	1537+52.27	5	4" Sloped



2RP_ 04-16-13

ROAD IDENTIFICATION	BEGIN STATION	END STATION
9th Ave. Ramp A	1529+03.47	1537+52.27
9th Ave. Ramp D	4525+36.19	4533+48.07

Full Depth Reinforced PCC Shoulder

Shoulder Jointing:
Longitudinal joint: L-2 or KT-2
Transverse joints: C at 20' spacing

Road Identification	BEGIN STATION	END STATION	Ⓟ Feet
9th Ave. Ramp A	1532+20.00	1537+52.27	8
9th Ave. Ramp D	4527+30.00	4533+48.07	6

Paved Shoulder Alternates

PCC Shoulder Jointing:
Longitudinal joint: BT-1 or BT-5
Transverse joints: C at 20' spacing
HMA Shoulder Jointing:
Longitudinal joint: B

1R_P_ALT_ 10-21-14

Road Identification	BEGIN STATION	END STATION	Ⓟ Feet
9th Ave. Ramp A	1529+03.47	1532+20.00	8
9th Ave. Ramp D	4525+36.19	4527+30.00	6

9TH AVE. RAMP A
9TH AVE. RAMP D

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 : KT-2
Transverse:C at 20' spacing

2_Curb_ 04-19-11

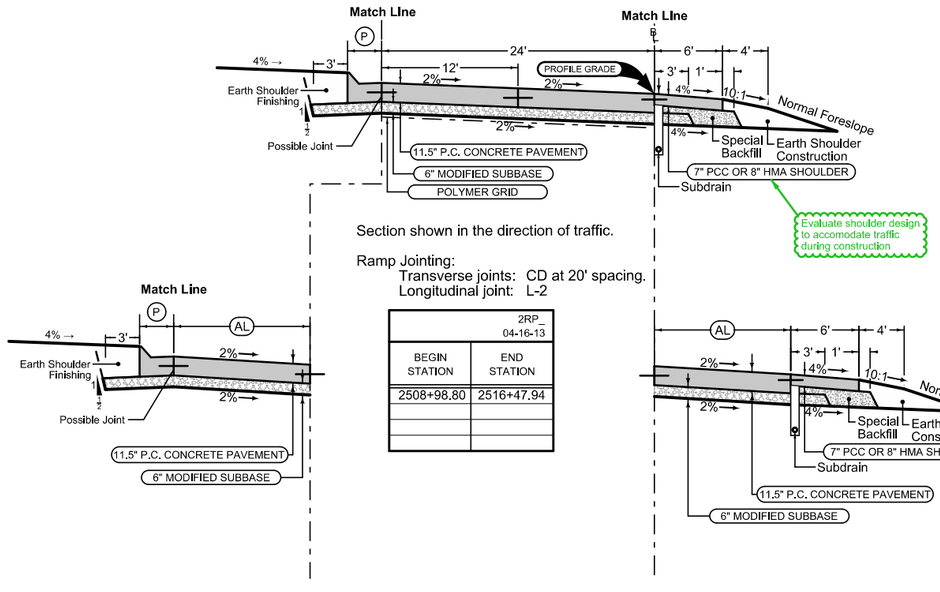
STATION TO STATION		Ⓟ Feet	Curb Type See PV-102
2508+98.80	2513+70.00	5	4" Sloped

Auxiliary Lane

Longitudinal joint: L or KT
Transverse joint: Match Mainline

2_AuxLane_PCC_ 10-18-16
2_Curb_ 04-19-11

STATION TO STATION		Ⓐⓛ Feet	Ⓟ Feet	Curb Type See PV-102
2513+70.00	2515+50.00	0-12	5	4" Sloped
2515+50.00	2516+47.94	12	5	4" Sloped



2RP_ 04-16-13

BEGIN STATION	END STATION
2508+98.80	2516+47.94

Paved Shoulder Alternates

PCC Shoulder Jointing:
Longitudinal joint: BT-1 or BT-5
Transverse joints: C at 20' spacing
HMA Shoulder Jointing:
Longitudinal joint: B

1R_P_ALT_ 10-21-14

BEGIN STATION	END STATION
2508+98.80	2512+20.00

Auxiliary Lane

Longitudinal joint: L or KT
Transverse joint: Match Mainline

2_AuxLane_PCC_ 10-18-16

STATION TO STATION		Ⓐⓛ Feet
2512+20.00	2514+00.00	0-12
2514+00.00	2516+47.94	12

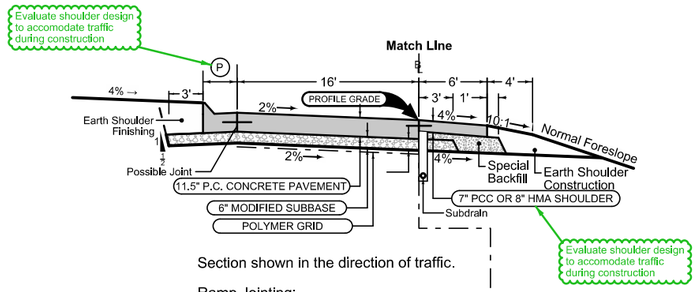
9TH AVE. RAMP B

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 : KT-2
Transverse:C at 20' spacing

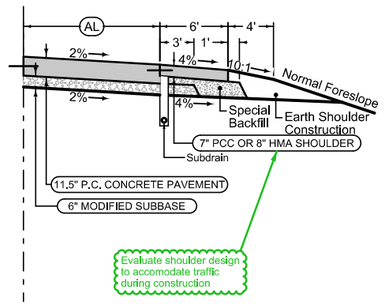
			2_Curb_ 04-19-11
STATION TO STATION		(P) Feet	Curb Type See PV-102
3508+78.10	3515+44.76	5	4" Sloped



Section shown in the direction of traffic.

Ramp Jointing:
Transverse joints: CD at 20' spacing.

	1RP_ 10-19-10
BEGIN STATION	END STATION
3508+79.39	3516+14.89



Paved Shoulder Alternates

PCC Shoulder Jointing:
Longitudinal joint: BT-1 or BT-5
Transverse joints: C at 20' spacing
HMA Shoulder Jointing:
Longitudinal joint: B

	1R_P_ALT_ 10-21-14
BEGIN STATION	END STATION
3508+79.39	3512+50.22

Auxiliary Lane

Longitudinal joint: L or KT
Transverse joint: Match Mainline

		2_AuxLane_PCC_ 10-18-16
STATION TO STATION		(AL) Feet
3512+50.22	3514+75.63	0-8
3514+75.63	3516+14.89	8

9TH AVE. RAMP C

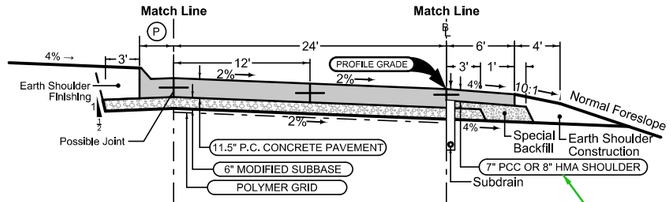
Curbed Shoulder

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

Single pour: L-2
Staged : KT-2
Transverse:C at 20' spacing

2_Curb_ 04-19-11

Road Identification	STATION TO STATION		(P) Feet	Curb Type See PV-102
40th St. Ramp B	2109+06.71	2115+80.00	8	4" Sloped
40th St. Ramp B	2115+80.00	2116+00.00	8-6.7	4" Sloped



Section shown in the direction of traffic.

Ramp Jointing:
Transverse joints: CD at 20' spacing.
Longitudinal joint: L-2

2RP_ 04-16-13

Road Identification	BEGIN STATION	END STATION
40th St. Ramp B	2109+06.71	2118+82.17
40th St. Ramp C	3109+58.66	3119+82.29

Paved Shoulder Alternates

PCC Shoulder Jointing:
Longitudinal joint: BT-1 or BT-5
Transverse joints: C at 20' spacing
HMA Shoulder Jointing:
Longitudinal joint: B

1R_P_ALT_ 10-21-14

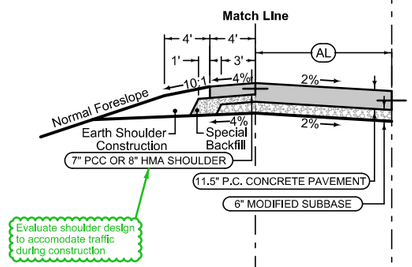
Road Identification	BEGIN STATION	END STATION
40th St. Ramp B	2109+06.71	2112+50.00
40th St. Ramp C	3109+58.66	3116+00.00

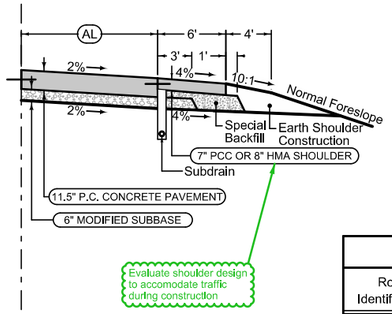
Auxiliary Lane

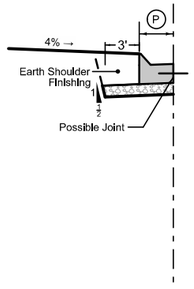
Longitudinal joint: L or KT
Transverse joint: Match
Mainline

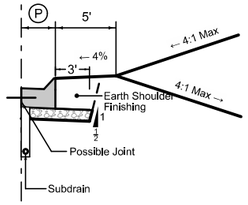
2_AuxLane_PCC_ 10-18-16

Road Identification	STATION TO STATION		(AL) Feet
40th St. Ramp B	2115+80.00	2117+60.00	0-12
40th St. Ramp B	2117+60.00	2118+82.17	12









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 : KT-2
Transverse:C at 20' spacing

2_Curb_ 04-19-11

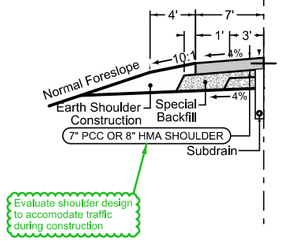
Road Identification	STATION TO STATION		(P) Feet	Curb Type See PV-102
40th St. Ramp B	2115+80.00	2116+00.00	8-6.7	4" Sloped

Paved Shoulder Alternates

PCC Shoulder Jointing:
Longitudinal joint: BT-1 or BT-5
Transverse joints: C at 20' spacing
HMA Shoulder Jointing:
Longitudinal joint: B

1R_P_ALT_ 10-21-14

Road Identification	BEGIN STATION	END STATION
40th St. Ramp C	3109+58.66	3119+82.29



Auxiliary Lane

Longitudinal joint: L or KT
Transverse joint: Match
Mainline

2_AuxLane_PCC_ 10-18-16

Road Identification	STATION TO STATION		(AL) Feet
40th St. Ramp B	2112+50.00	2114+30.00	0-12
40th St. Ramp B	2114+30.00	2118+82.17	12

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 : KT-2
Transverse:C at 20' spacing

2_Curb_ 04-19-11

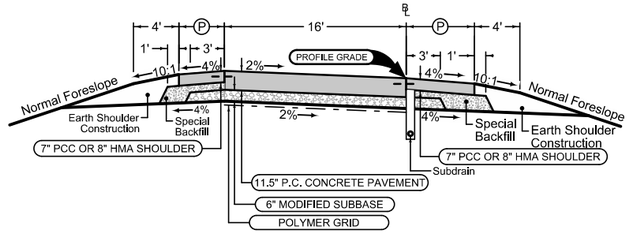
Road Identification	STATION TO STATION		(P) Feet	Curb Type See PV-102
40th St. Ramp C	3116+00.00	3119+82.29	7	4" Sloped

40TH ST. RAMP B
40TH ST. RAMP C

Paved Shoulder Alternates

PCC Shoulder Jointing:
Longitudinal joint: BT-1 or BT-5
Transverse joints: C at 20' spacing
HMA Shoulder Jointing:
Longitudinal joint: B

			1R_P_ALT_ 10-21-14
Road Identification	BEGIN STATION	END STATION	(P) Feet
I-480 Ramp A	1554+31.00	1559+52.29	4
I-480 Ramp F	6559+56.00	6562+00.00	12
I-480 Ramp F	6562+00.00	6565+00.00	12-4
I-480 Ramp F	6565+00.00	6568+74.87	4



Section shown in the direction of traffic.

Ramp Jointing:
Transverse joints: CD at 20' spacing.

		1RP_ 10-19-10
Road Identification	BEGIN STATION	END STATION
I-480 Ramp A	1554+31.00	1559+52.29
I-480 Ramp F	6559+56.00	6568+74.87

Paved Shoulder Alternates

PCC Shoulder Jointing:
Longitudinal joint: BT-1 or BT-5
Transverse joints: C at 20' spacing
HMA Shoulder Jointing:
Longitudinal joint: B

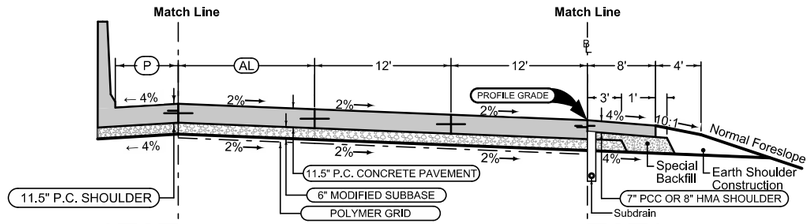
			1R_P_ALT_ 10-21-14
Road Identification	BEGIN STATION	END STATION	(P) Feet
I-480 Ramp A	1554+31.00	1559+52.29	12
I-480 Ramp F	6559+56.00	6562+00.00	4
I-480 Ramp F	6562+00.00	6565+00.00	4-8
I-480 Ramp F	6565+00.00	6568+74.87	8

I-480 RAMP A
I-480 RAMP F

Full Depth Reinforced PCC Shoulder

Shoulder Jointing:
Longitudinal joint: L-2 or KT-2
Transverse joints: C at 20' spacing

BEGIN STATION	END STATION	(P) Feet
3565+30.00	3556+91.96	12
3556+91.96	3560+91.96	12-4
3560+91.96	3565+14.85	4



Section shown in the direction of traffic.

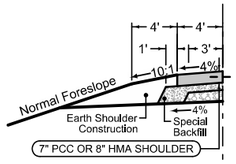
Ramp Jointing:
Transverse joints: CD at 20' spacing.
Longitudinal joint: L-2

BEGIN STATION	END STATION	(AL) Feet
3536+21.95	3539+00.00	0
3556+30.00	3565+14.85	12

Paved Shoulder Alternates

PCC Shoulder Jointing:
Longitudinal joint: BT-1 or BT-5
Transverse joints: C at 20' spacing
HMA Shoulder Jointing:
Longitudinal joint: B

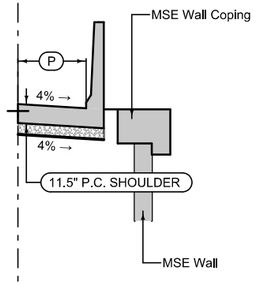
	1R_P_ALT_ 10-21-14
BEGIN STATION	END STATION
3536+60.00	3537+51.16
3559+35.00	3565+14.85



Paved Shoulder Alternates

PCC Shoulder Jointing:
Longitudinal joint: BT-1 or BT-5
Transverse joints: C at 20' spacing
HMA Shoulder Jointing:
Longitudinal joint: B

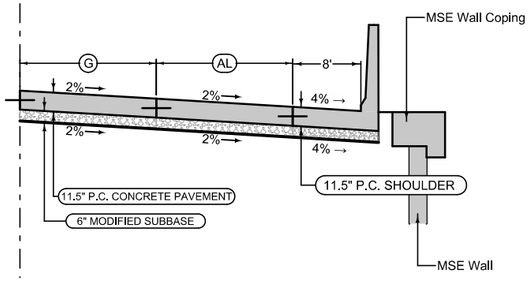
		1R_P_ALT_ 10-21-14
BEGIN STATION	END STATION	
3536+21.95	3539+00.00	



Full Depth Reinforced PCC Shoulder

Shoulder Jointing:
Longitudinal joint: L-2 or KT-2
Transverse joints: C at 20' spacing

BEGIN STATION	END STATION	(P) Feet
3556+30.00	3559+35.00	8
3536+21.95	3536+60.00	12



Gore and Deceleration Lane

Shoulder Jointing:
Longitudinal joint: L-2 or KT-2
Transverse joints: C at 20' spacing

		2_AuxLane_PCC_ 10-18-16	
STATION TO STATION		(G) Feet	(AL) Feet
3537+51.16	3539+00.00	24-14.2	16

I-480 RAMP C

FILE NO.	ENGLISH	DESIGN TEAM Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER IM-029-3(166)54--13-78	SHEET NUMBER B.34

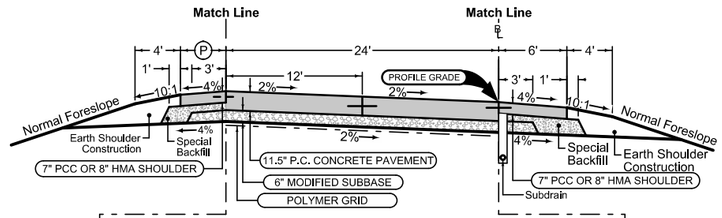
8:39:09 AM 10/26/2017 mplummer pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\7802916 6-B.sht

Paved Shoulder Alternates

PCC Shoulder Jointing:
Longitudinal joint: BT-1 or BT-5
Transverse joints: C at 20' spacing
HMA Shoulder Jointing:
Longitudinal joint: B

1R_P_ALT_ 10-21-14

BEGIN STATION	END STATION	Ⓟ Feet
8529+28.83	8531+67.00	8
8560+08.00	8561+00.00	8
8561+00.00	8563+00.00	8-4
8563+00.00	8569+41.45	4



Section shown in the direction of traffic.

Ramp Jointing:
Transverse joints: CD at 20' spacing.
Longitudinal joint: L-2

2RP_ 04-16-13

BEGIN STATION	END STATION
8529+28.83	8535+42.00
8560+08.00	8569+41.45

Paved Shoulder Alternates

PCC Shoulder Jointing:
Longitudinal joint: BT-1 or BT-5
Transverse joints: C at 20' spacing
HMA Shoulder Jointing:
Longitudinal joint: B

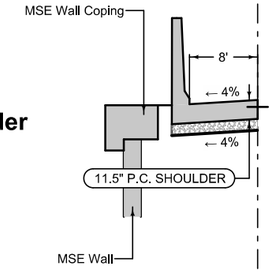
1R_P_ALT_ 10-21-14

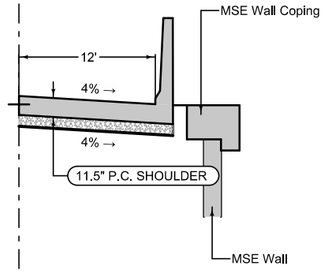
BEGIN STATION	END STATION
8530+70.00	8533+50.00

Full Depth Reinforced PCC Shoulder

Shoulder Jointing:
Longitudinal joint: L-2 or KT-2
Transverse joints: C at 20' spacing

BEGIN STATION	END STATION
8531+67.00	8535+42.00

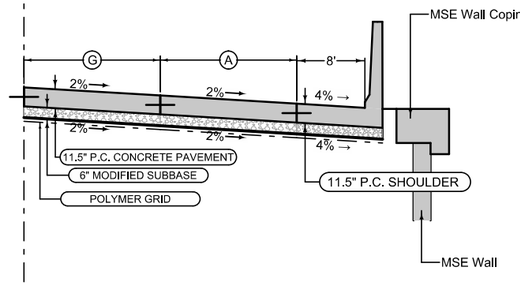




Full Depth Reinforced PCC Shoulder

Shoulder Jointing:
Longitudinal joint: L-2 or KT-2
Transverse joints: C at 20' spacing

BEGIN STATION	END STATION
8529+28.83	8530+70.00

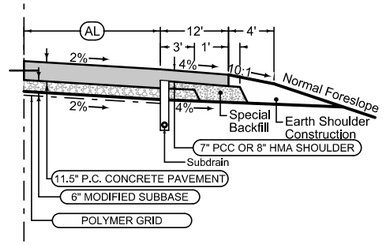


Gore and Acceleration Lane

Shoulder Jointing:
Longitudinal joint: L-2 or KT-2
Transverse joints: C at 20' spacing

2_AuxLane_PCC_ 10-18-16

STATION TO STATION		Ⓖ Feet	Ⓐ Feet
8533+50.00	8536+42.00	21.8-4	16



Auxiliary Lane

Longitudinal joint: L or KT
Transverse joint: Match Mainline

2_AuxLane_PCC_ 10-18-16

STATION TO STATION		Ⓐ Feet
8560+08.00	8569+15.61	18-0
8569+15.61	8569+41.45	0

I-480 RAMP H

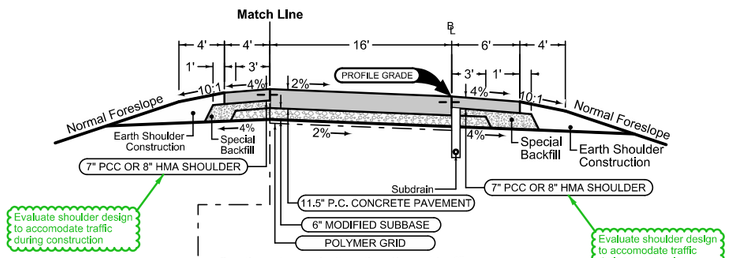
FILE NO.	ENGLISH	DESIGN TEAM Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER IM-029-3(166)54--13-78	SHEET NUMBER B.35

8:39:11 AM 10/26/2017 mplummer pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\78029166-B.sht

Paved Shoulder Alternates

PCC Shoulder Jointing:
Longitudinal joint: BT-1 or BT-5
Transverse joints: C at 20' spacing
HMA Shoulder Jointing:
Longitudinal joint: B

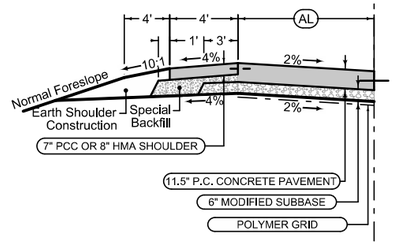
1R_P_ALT_ 10-21-14		
Road Identification	BEGIN STATION	END STATION
Ave. G Ramp A	1571+15.49	1587+01.06



Section shown in the direction of traffic.

Ramp Jointing:
Transverse joints: CD at 20' spacing.

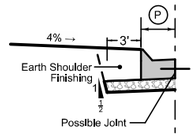
1RP_ 10-19-10		
Road Identification	BEGIN STATION	END STATION
Ave. G Ramp A	1568+43.57	1587+01.06
Ave. G Ramp D	4574+10.47	4583+42.48



Auxiliary Lane

Longitudinal joint: L or KT
Transverse joint: Match
Mainline

2_AuxLane_PCC_ 10-18-16			
Road Identification	STATION TO STATION		(AL) Feet
Ave. G Ramp A	1568+43.57	1569+30.88	8
Ave. G Ramp A	1569+30.88	1571+15.49	8-0



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 : KT-2
Transverse:C at 20' spacing

2_Curb_ 04-19-11				
Road Identification	STATION TO STATION		(P) Feet	Curb Type See PV-102
Ave. G Ramp D	4574+48.52	4583+44.12	5	4" Sloped

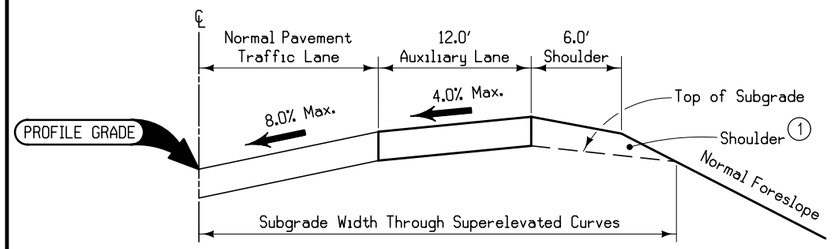
Paved Shoulder Alternates

PCC Shoulder Jointing:
Longitudinal joint: BT-1 or BT-5
Transverse joints: C at 20' spacing
HMA Shoulder Jointing:
Longitudinal joint: B

1R_P_ALT_ 10-21-14		
Road Identification	BEGIN STATION	END STATION
Ave. G Ramp A	1568+43.57	1587+01.06
Ave. G Ramp D	4574+10.47	4583+42.48

AVE. G RAMP A
AVE. G RAMP D

2013
09-29-92



Notes:

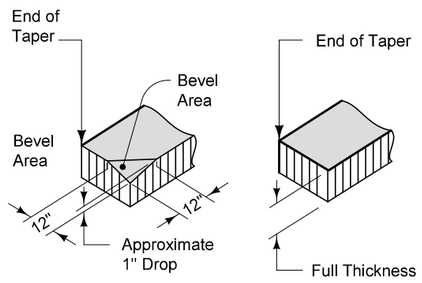
On the high side of superelevated curves, the surface of auxiliary lane pavement shall be maintained at the same slope as the adjacent traffic lane until the superelevation reaches 4.0%. When the traffic lane pavement slope is greater than 4.0%, the auxiliary slope will remain constant at 4.0%.

On the low side of superelevated curves, the surface of auxiliary lane pavement shall slope the same as the adjacent lane pavement.

(1) Refer to other drawings for details of shoulder design and construction.

TYPICAL HALF SECTION OF AUXILIARY LANE THROUGH AREAS OF SUPERELEVATION

7101
10-19-10



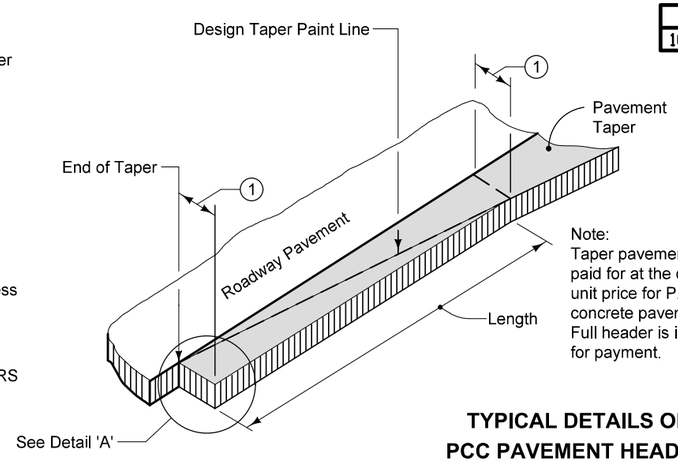
DETAIL 'A'

FOR GRANULAR SHOULDERS

DETAIL 'A'

FOR PAVED SHOULDERS

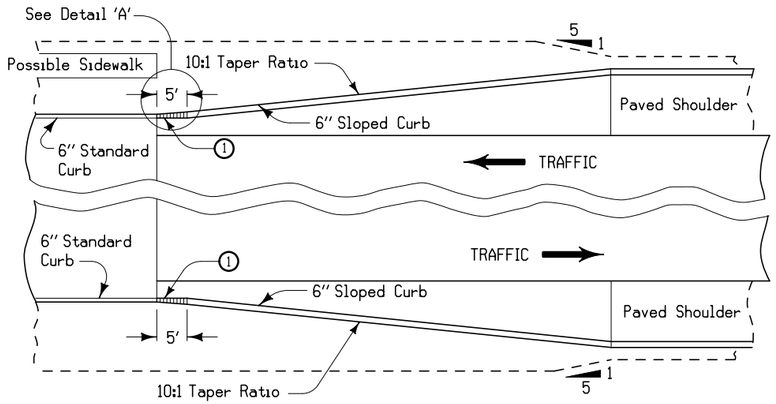
(1) Normal width is 2'-0". Construct 4'-0" width when butting into 4' wide HMA shoulders (See Typical 7154A).

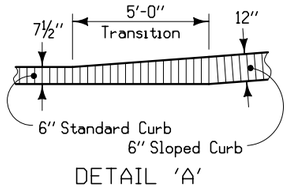


Note:
Taper pavement to be paid for at the contract unit price for P.C. concrete pavement. Full header is included for payment.

TYPICAL DETAILS OF PCC PAVEMENT HEADER

6148
11-10-92



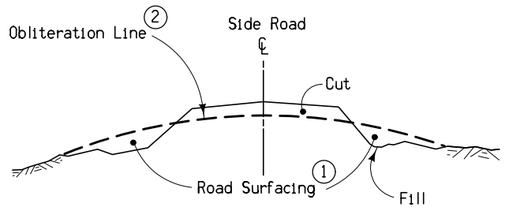


DETAIL 'A'

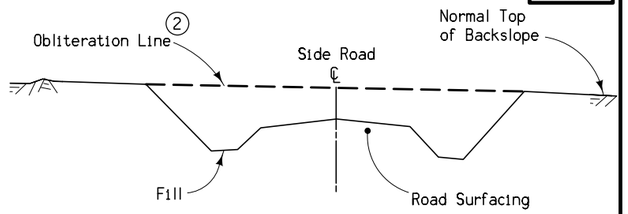
(1) Transition to sloped curb in 5'.

TRANSITION BETWEEN STANDARD CURB AND SLOPED CURB ON SHOULDER

4302
04-03-01



Fill Section



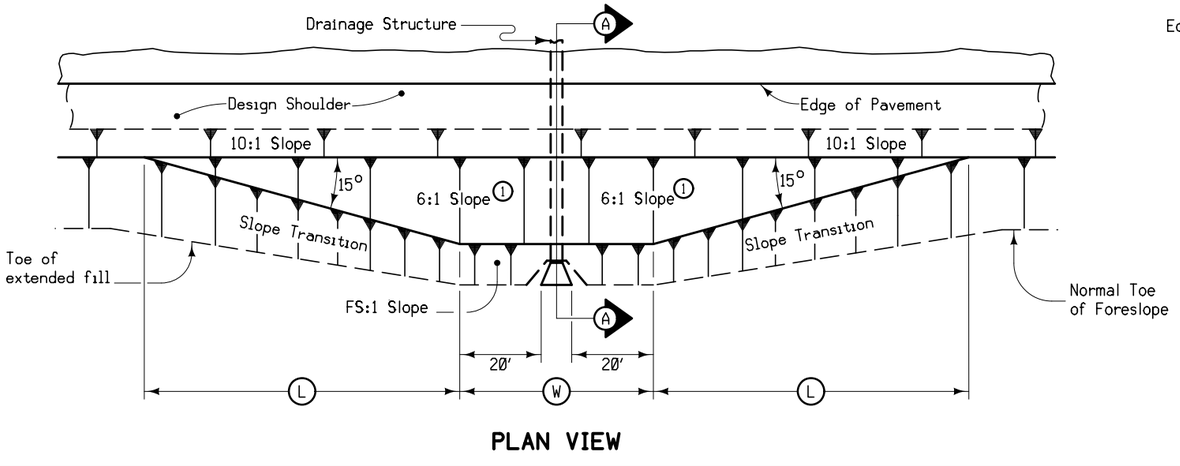
Cut Section

(1) Existing road surfacing (granular material) shall be placed as shown unless otherwise directed by the Engineer or provided for in the detail project plans.

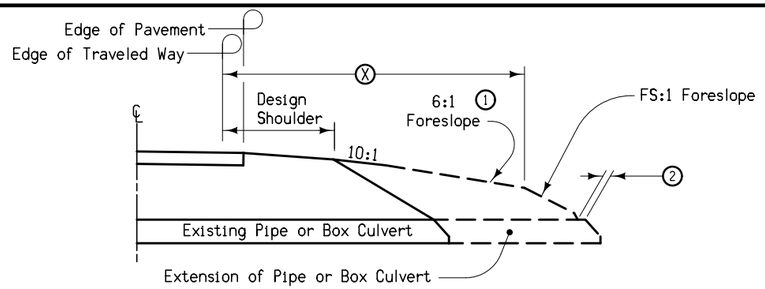
(2) When specified, the upper 1' to be suitable for vegetation (grass or crops).

Note:
The work of obliterating or reshaping old roadbeds shall be done at the direction of the Engineer.

TYPICAL DETAILS FOR OBLITERATION EXISTING ROADBED



PLAN VIEW



SECTION A-A

STRUCTURE LOCATION		(W)	(L)	(X)	(FS)
STATION	SIDE	Feet	Feet	Feet	

DESIGNER INFO

4311
04-18-17

Notes:

At locations where an extended or newly constructed drainage structure extends beyond the normal foreslope cover, flatten the foreslope as indicated so as to cover the structure. Minimum earth cover is 6".

(1) Slope may be flatter than 6:1.

(2) 6" Minimum for pipe installations or to top of headwall on R.C.B.

(W) = Pipe or R.C.B. opening width plus 20 feet each side.

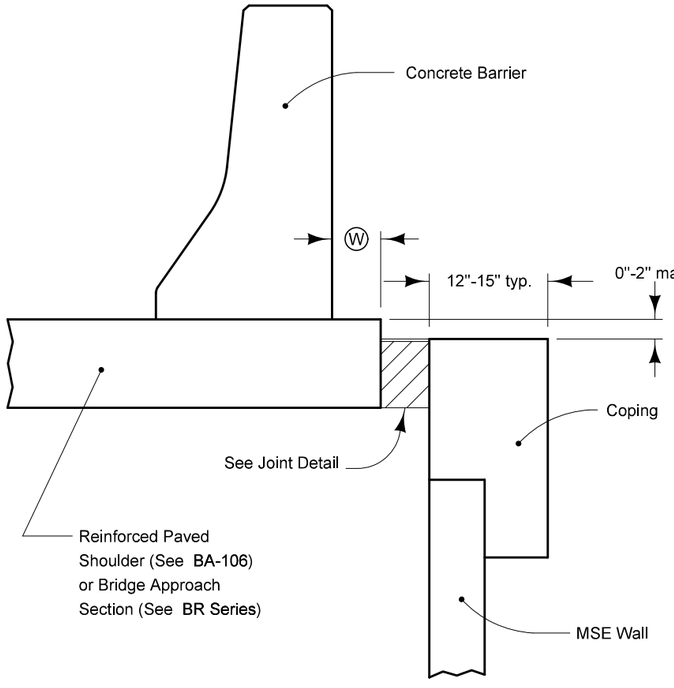
BARNROOF FORESLOPE AT DRAINAGE STRUCTURE

FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER B.37

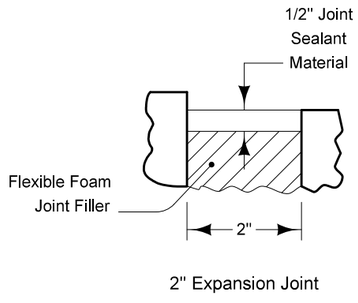
8:39:15 AM 10/26/2017 mplummer pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\78029166-B.sht

8208
04-21-15

DESIGNER INFO

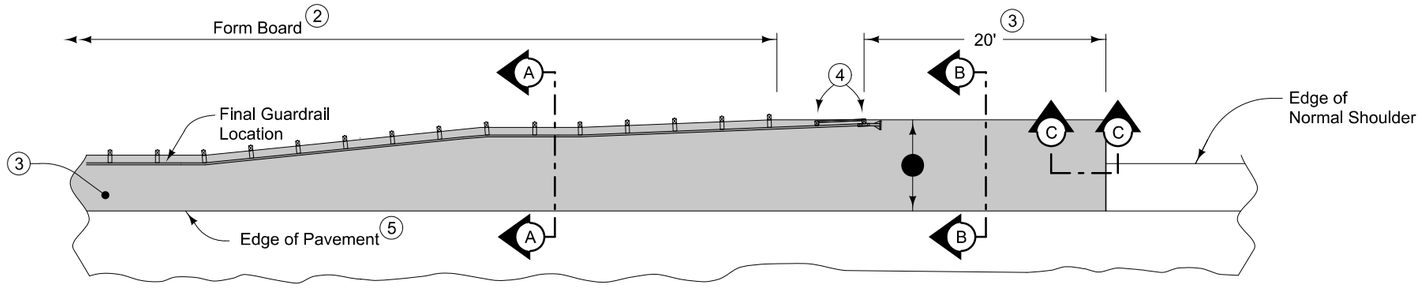


Refer to tabulation 108-20.

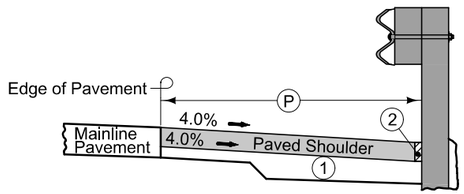


2" Expansion Joint

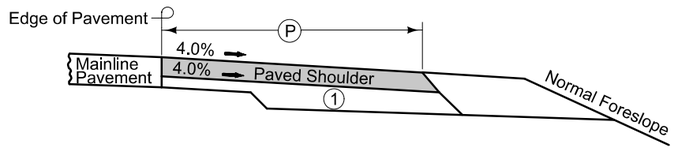
CONCRETE BARRIER WITH MSE WALL



PLAN VIEW

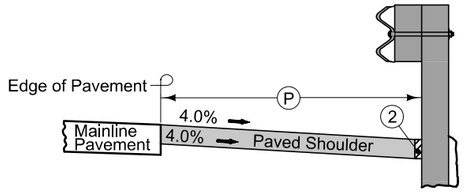


Section A-A

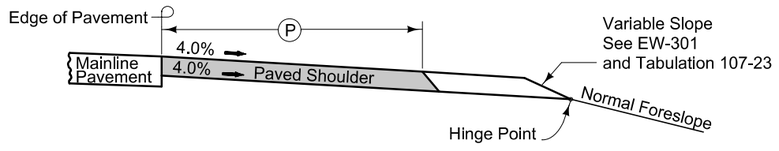


Section B-B

NEW CONSTRUCTION



Section A-A



Section B-B

EXISTING SHOULDER

DESIGNER INFO | 7156 | 04-18-17

9" HMA Paved Shoulder at guardrail. 8" PCC may be substituted with the following jointing layout:

Match mainline pavement joint spacing. When mainline pavement is 8" or greater in thickness, place additional transverse 'C' joints in shoulder at mid-panel of the mainline pavement. Place longitudinal 'C' joint at P/2 from edge of mainline pavement when P is greater than 10' wide. Terminate longitudinal joint at transverse joint less than 10' in length.

Compaction of HMA is required to face of guardrail post. Hand compaction will be allowed under guardrail. Removal and reinstallation of guardrail will be allowed with no additional payment.

Refer to Tabulation 112-9 for shoulder quantities.

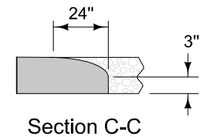
(1) For subgrade treatment, refer to other details in the plan.

(2) PCC option only: When guardrail posts are installed prior to construction of PCC paved shoulder, fasten form board to the face of guardrail posts for the length shown. Refer to note 4 for final 2 posts.

(3) Continue paved shoulder to existing paved shoulder or 20 feet beyond the center of the first post.

(4) Shoulder may be notched for final 2 posts or post sleeves may be installed through pavement. Do not drive posts through pavement.

(5) 'KT-1 joint for PCC shoulder.
'B' joint for HMA shoulder.



Section C-C
Roll down at granular shoulder or earth.

PAVED SHOULDER AT GUARDRAIL

SURVEY SYMBOLS

- IN Storm Sewer Intake
- MH Utility Access (Manhole)
- PIP Pipe Culvert
- MIS Miscellaneous
- INB Storm Sewer Beehive Intake
- PLG Location of General Photo
- OUT Tile Outlet
- BRG Bridge
- CON Concrete or A/C Slab
- CU Back of Curb
- GU Gutter In Front of Curb
- EP Edge of Paved Roads (ML or SR)

- UE Utility Elevation
- WV Water Valve
- FHD Fire Hydrants
- LIN Miscellaneous Line
- SI Sign
- TLNR Tree Line Right
- LUM Luminaire
- UB Utility Box
- FCL Chain Link and Security Fence

- TDC Tree Deciduous
- TPD Telephone Pedestal
- GP Guard Post (Less Than 4 Posts)
- HDG Hedge Row
- RET Retaining Walls
- UV Underground Utility Vault
- GDL Guard Rail Steel
- GPR Guard Post (4 or More Posts)
- FWD Wood Fence
- SHR Shrub
- EB Electrical Box
- TEV Evergeen Tree
- STP Stump
- TLNL Tree Line Left
- FW Wire Fence
- SL Speed Limit Sign
- LC Lot Corner
- SNP Unpaved Shoulder
- SWK Sidewalk
- ENP Edge Paved Entrance & Park Lot
- ENU Edge Unpaved Entrance & Parking
- EG Edge of Gravel Road
- ENT Centerline BL of Entrance
- DU Centerline Draw or Stream (Up)
- TW Top of Water

SURVEYED UTILITY OWNER SYMBOLS

SUB-SURFACE MAPPING QUALITY LEVEL
LEVEL (A) POTHOLE LOCATION OR ACTUAL XYZ Location
LEVEL (B) UTILITY FLAG LOCATION
LEVEL (C) PLOTTED FROM REFERENCE TO GROUND FEATURES
LEVEL (D) PLOTTED FROM UTILITY MAPS OR HEARSAY

- EB Electrical Box
- FHD Fire Hydrant
- GV Gas Valve
- IN Storm Sewer Intake
- LUM Luminaire
- MH Utility Access (Manhole)
- PPA Power Pole
- TCB Traffic Signal Box
- TPC Telephone Pole AT&T
- TPD Telephone Pedestal
- UB Utility Box
- WV Water Valve

F11 / T4
AT&T
Lenny Vohs
1425 Oak Street
Kansas City, MO 64106
816-275-4014
lv2121@att.com

G
Black Hills Energy
Chris Dewey
1414 W. Broadway
P.O. Box 68
Council Bluffs, IA 51502
712-325-3022
chrls.dewey@blackhillscorp.com

T
CenturyLink
Ed Krieger
7404 N. 78th St., Bldg A
Omaha, NE 68112
402-572-5856
edward.krieger@centurylink.com

E3 / F14
City of Council Bluffs - Power/Signals
Mark Franz
Public Works Operations
1001 10th Avenue
Council Bluffs, IA 51503
712-328-4645
mfranz@councilbluffs-ia.gov

San.
City of Council Bluffs - Sanitary Sewer
Dave Vermillion
City of Council Bluffs Public Works
209 Pearl Street
Council Bluffs, IA 51503
712-328-4635 ex 3153#
dvermillion@councilbluffs-ia.gov

St.S. / St.S.2
City of Council Bluffs - Storm Sewer
Dave Vermillion
City of Council Bluffs Public Works
209 Pearl Street
Council Bluffs, IA 51503
712-328-4635 ex 3153#
dvermillion@councilbluffs-ia.gov

W
Council Bluffs Water Works
Brian Cady
2000 N. 25th St.
P.O. Box 309
Council Bluffs, IA 51502
712-328-1006 x.1039
bcady@cbwaterworks.com

F08 / T2 / TV
Cox Communications
Dave Kloch
401 North 117th, Suite 101
Omaha, NE 68154
402-934-0550
dave.kloch@cox.com

F02
Iowa Communications Network
Larry Klawitter
Grimes State Office Bldg
400 E. 14th St.
Des Moines, IA 50319
515-725-4741
larry.klawitter@iowa.gov

E2
Iowa DOT
Tony Arrick
Maintenance Supervisor
3540 South Expressway
Council Bluffs, IA 51501
712-366-0332

E / E
MidAmerican Energy Company
Tim Theobald
3003 S. 11th St.
Council Bluffs, IA 51501
712-366-5668
trtheobald@midamerican.com

F03
Sprint
Dan J. Hilliard
849 Earl Street
St. Paul, MN 55106
651-772-6714
dan.j.hilliard@sprint.com

T5
TeleCom
Unknown

F15
Unite Private Network (UPN)
Shanon Morris
402-575-1239
shanon.morris@upnfiber.com

F12
Windstream
Joe Green
319-790-7510

E4 / T2(C)
Unknown

Indicates Utility As Abandoned

PLAN VIEW COLOR LEGEND OF PLAN AND PROFILE SHEETS

LINEWORK	Design Color No.	
Green	(2)	Existing Topographic Features and Labels
Blue	(1)	Proposed Alignment, Stationing, Tic Marks, and Alignment Annotation
Magenta	(5)	Existing Utilities
SHADING	**Design Color No.**	
Yellow	(4)	Highlight for Critical Notes or Features
Red	(3)	Delineates Restricted Areas
Lavender	(9)	Temporary Pavement Shading
Gray, Light	(48)	Proposed Pavement Shading
Gray, Med	(80)	Proposed Granular Shading
Gray, Dark	(112)	Proposed Grade and Pave Shading "In conjunction with a paving project"
Brown, Light	(236)	Grading Shading
Tan	(8)	Proposed Sidewalk Shading
Blue, Light	(230)	Proposed Sidewalk Landing Shading
Pink	(11)	Proposed Sidewalk Ramp Shading

PROFILE VIEW COLOR LEGEND OF PLAN AND PROFILE SHEETS

LINEWORK	Design Color No.	
Green	(2)	Existing Ground Line Profile
Blue	(1)	Proposed Profile and Annotation
Magenta	(5)	Existing Utilities
Blue, Light	(230)	Proposed Ditch Grades, Left
Black	(0)	Proposed Ditch Grades, Median
Rust	(14)	Proposed Ditch Grades, Right

Reference Point
Station Reference Point
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, & K)

FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER D.1

9:38:39 AM 10/26/2017 mplummer pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\7802916 6-D.sht

KANE TWP
T-75 R-44W
SEC.33

U.P.R.R.

9TH AVE. RAMP C

RETAINING WALL #2010

I-29 (ML029)

RETAINING WALL #2012

9TH AVE. RAMP B

Sta 505+30
Install 2X36"X276' RCP
FL Lt. = 972.44
FL Rt. = 972.46

STA 505+00.00
BEGIN PROJECT
BEGIN PAVING

0 FEET 50

VPI +11.360
Elv 994.44
K = 167
Len 500.00 ft

+1.250%

-1.750%

BEGIN PROJECT
BEGIN PAVING
Sta. 505+00.00
Elv 991.03

-1.750%

+2.480%

+2.480%

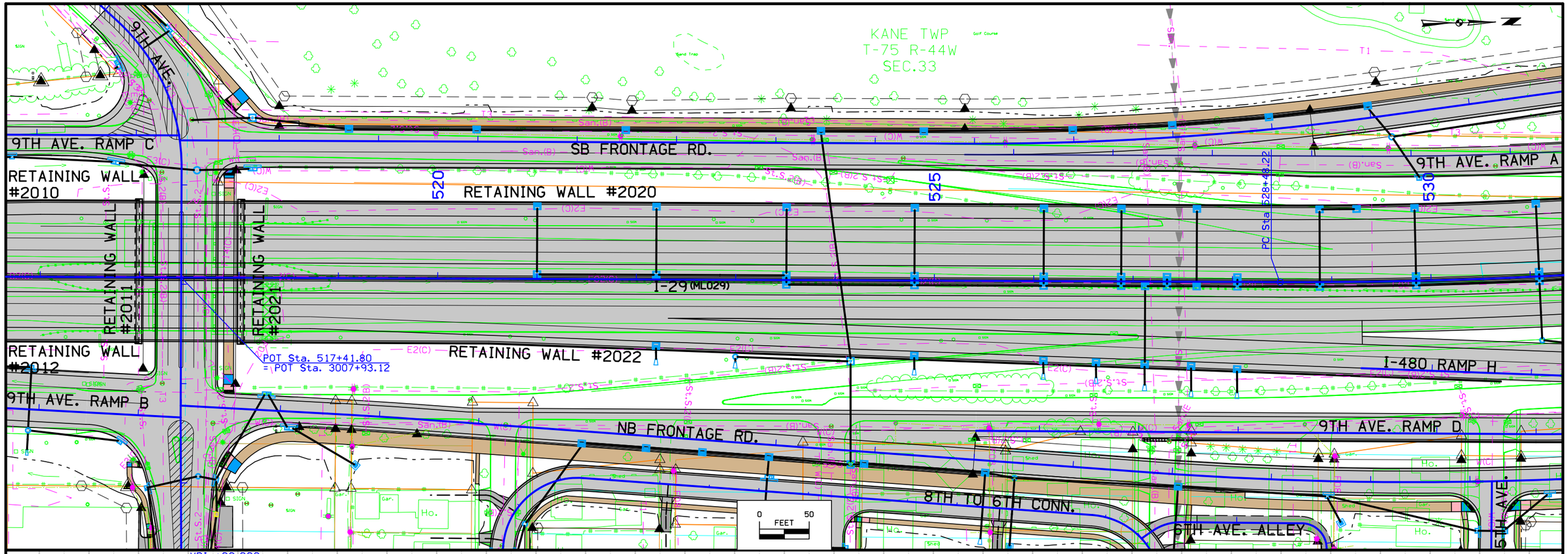
VPI +75.000
Elv 984.58
K = 142
Len 600.00 ft

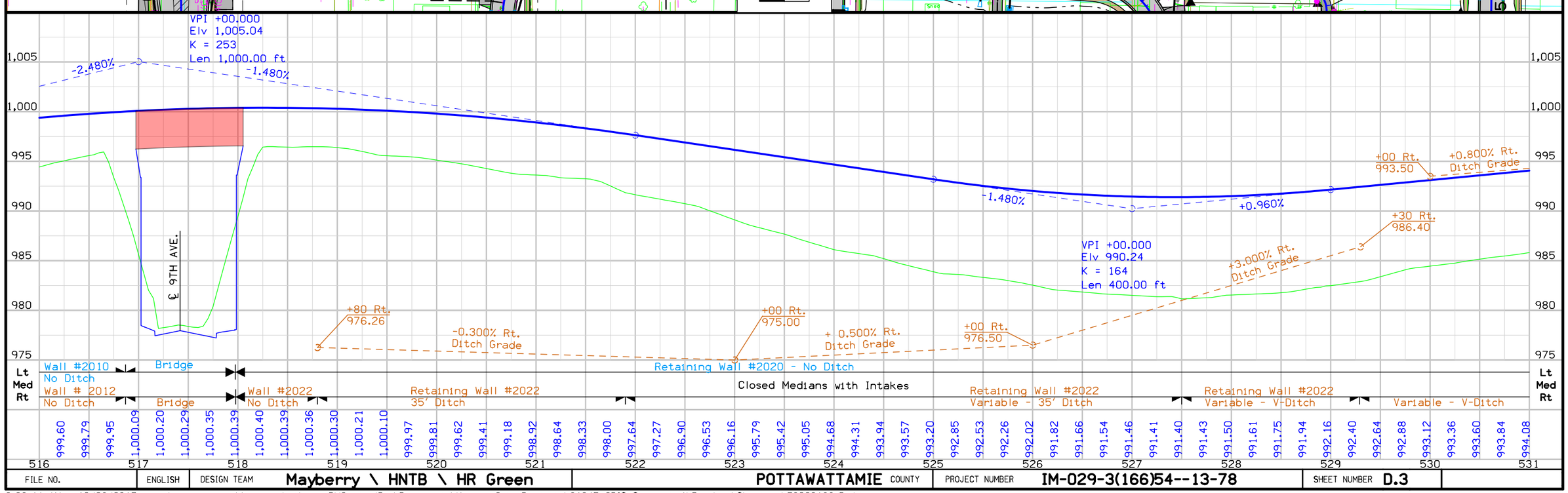
+30 Rt.
972.46

+0.092% Rt.
Ditch Grade

+01 Rt.
972.80

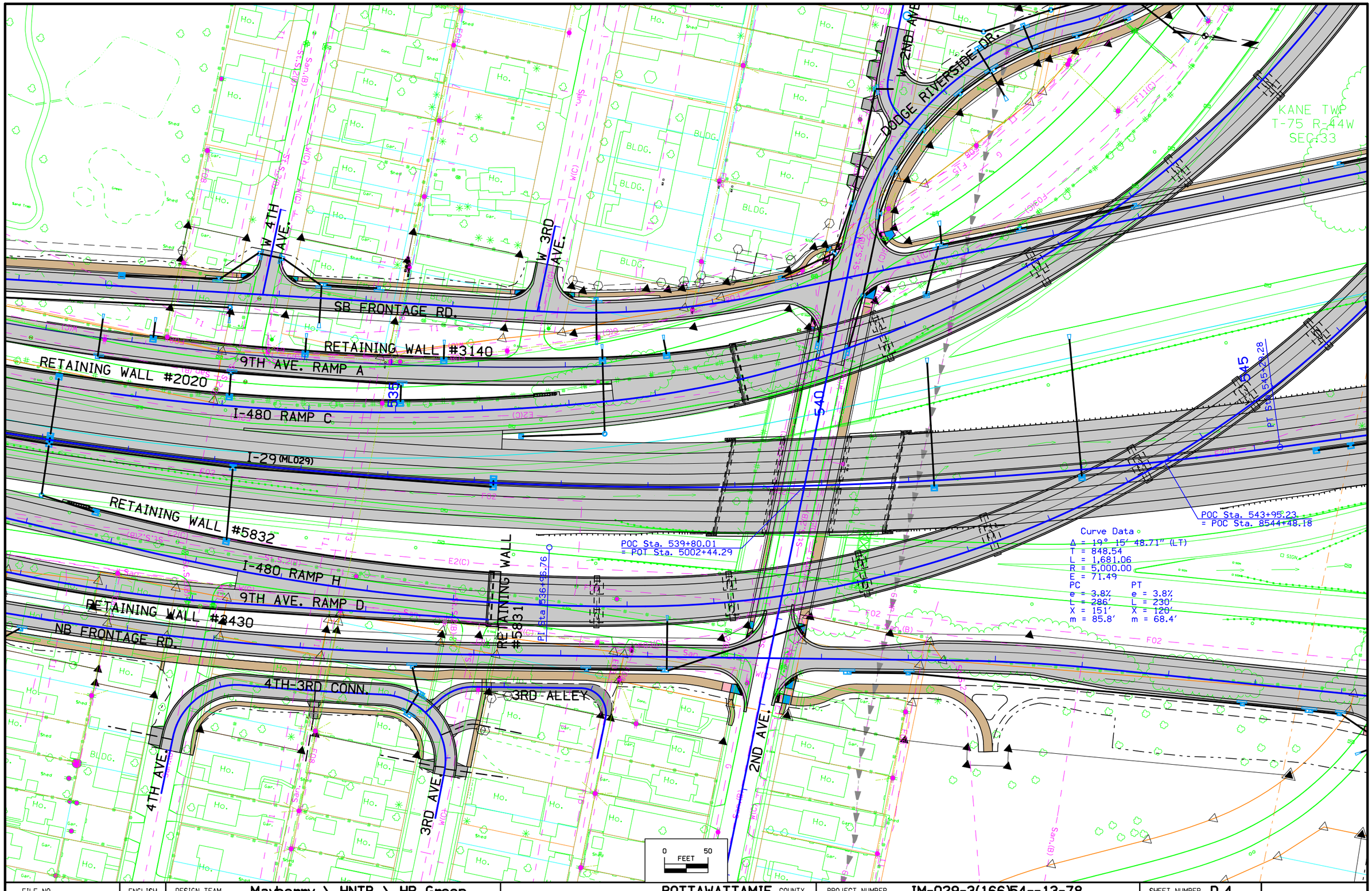
| Lt / Med / Rt | | |





FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER D.3

9:38:44 AM 10/26/2017 mplummer pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\78029166-D.sht



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER	D.4

9:38:47 AM 10/26/2017 mplummer pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\78029166-D.sht



VPI +00.000
Elv 1,006.56
K = 263
Len 600.00 ft

+0.800% Rt. Ditch Grade
+50 Rt. 994.70
-0.802% Rt. Ditch Grade
+12 Rt. 991.00
-4.000% Rt. Ditch Grade
+32 Rt. 990.20
+0.960%
-1.320%
℄ 2ND AVE.
+00 Rt. 980.50
-0.300% Rt. Ditch Grade
+00 Rt. 979.60
-1.000% Rt. Ditch Grade
+0.300% Lt. Ditch Grade
+60 Lt. 973.78

Lt Med Rt

Retaining Wall #2020 - No Ditch | Ramp C - V-Ditch | Bridge | Vari. | Variable - 90' Ditch

Closed Medians with Intakes

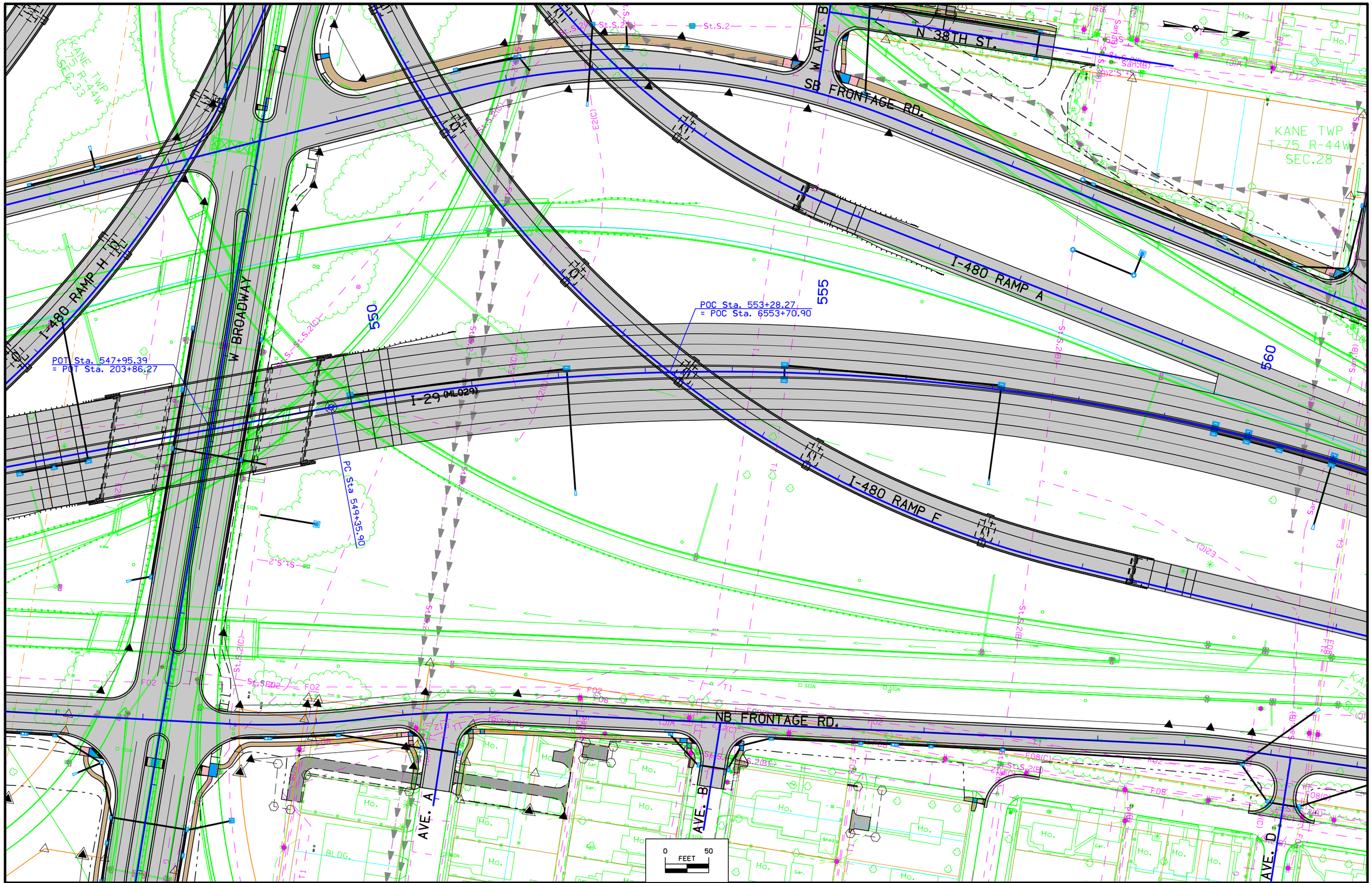
Variable - V-Ditch | NB Frontage Rd. | Bridge | Ditch Grade | Variable - 90' Ditch

994.32 994.56 994.80 995.04 995.28 995.52 995.76 996.00 996.24 996.48 996.72 996.96 997.20 997.44 997.68 997.92 998.16 998.40 998.64 998.88 999.12 999.36 999.60 999.84 1,000.08 1,000.32 1,000.56 1,000.80 1,001.04 1,001.28 1,001.52 1,001.76 1,002.00 1,002.24 1,002.48 1,002.72 1,002.96 1,003.20 1,003.44 1,003.68 1,003.91 1,004.11 1,004.29 1,004.45 1,004.58 1,004.69 1,004.78 1,004.84 1,004.88 1,004.89 1,004.88 1,004.85 1,004.79 1,004.71 1,004.61 1,004.48 1,004.33 1,004.15 1,003.95

531 532 533 534 535 536 537 538 539 540 541 542 543 544 545 546

FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER D.5

9:38:48 AM 10/26/2017 mplummer pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\78029166-D.sht

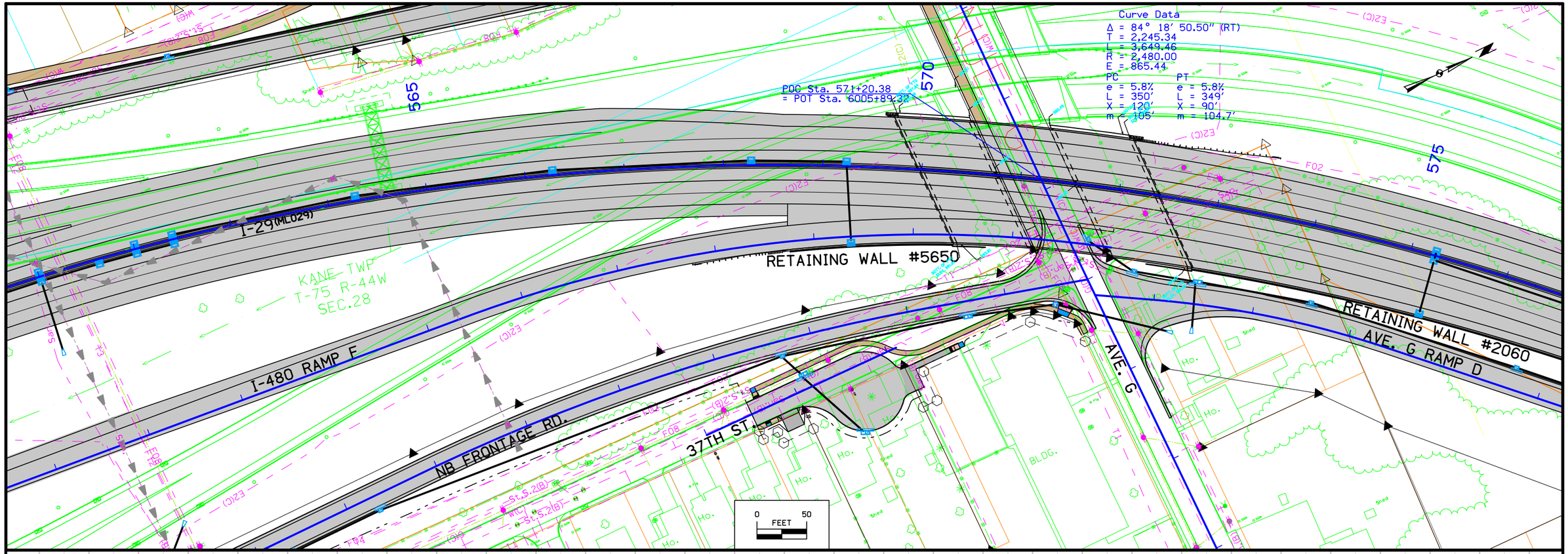


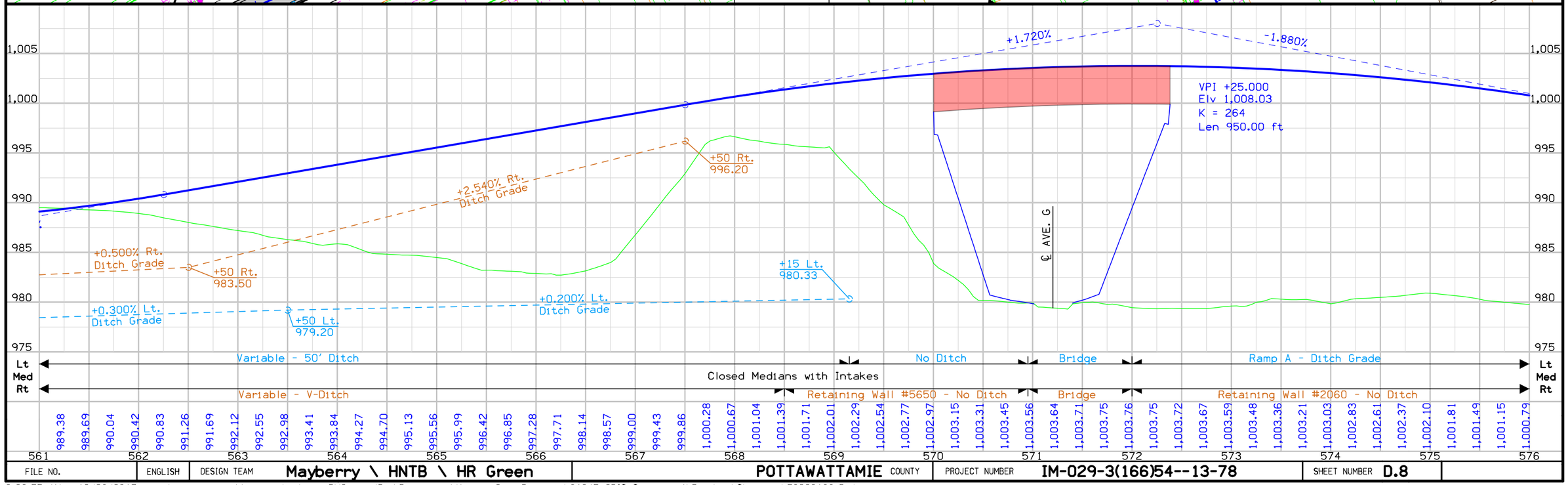
FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER D.6

9:38:51 AM 10/26/2017 mplummer pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\7802916G-D.sht



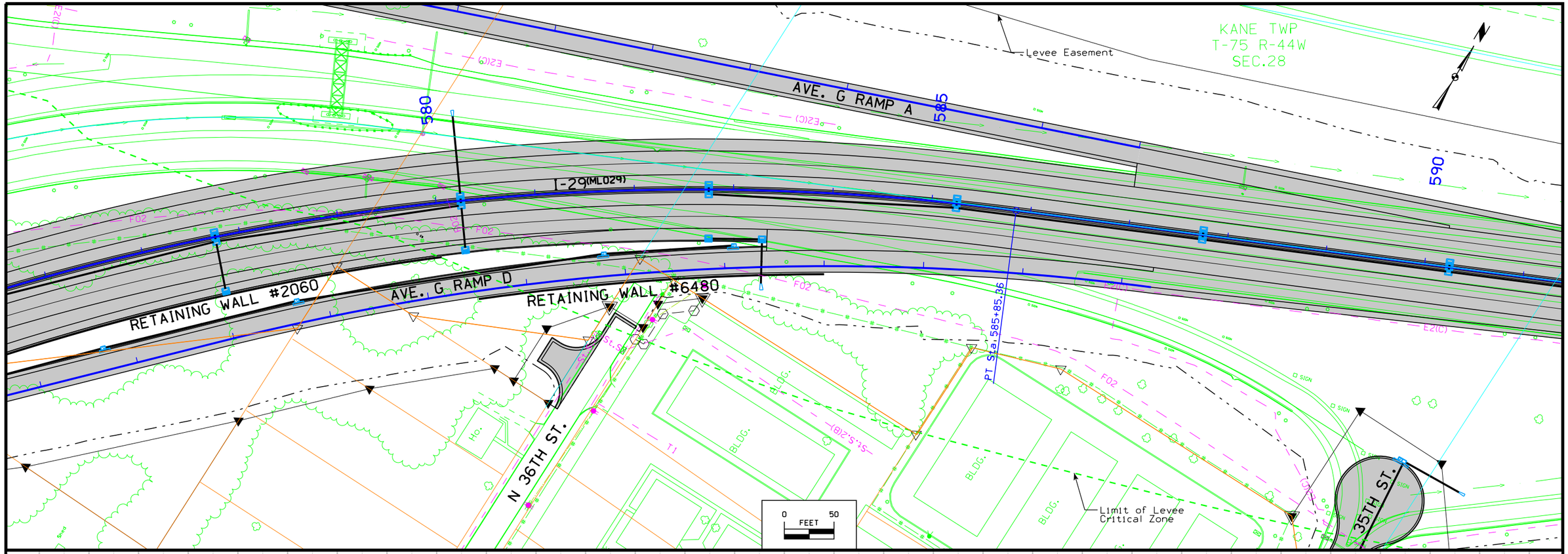
FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER D.7

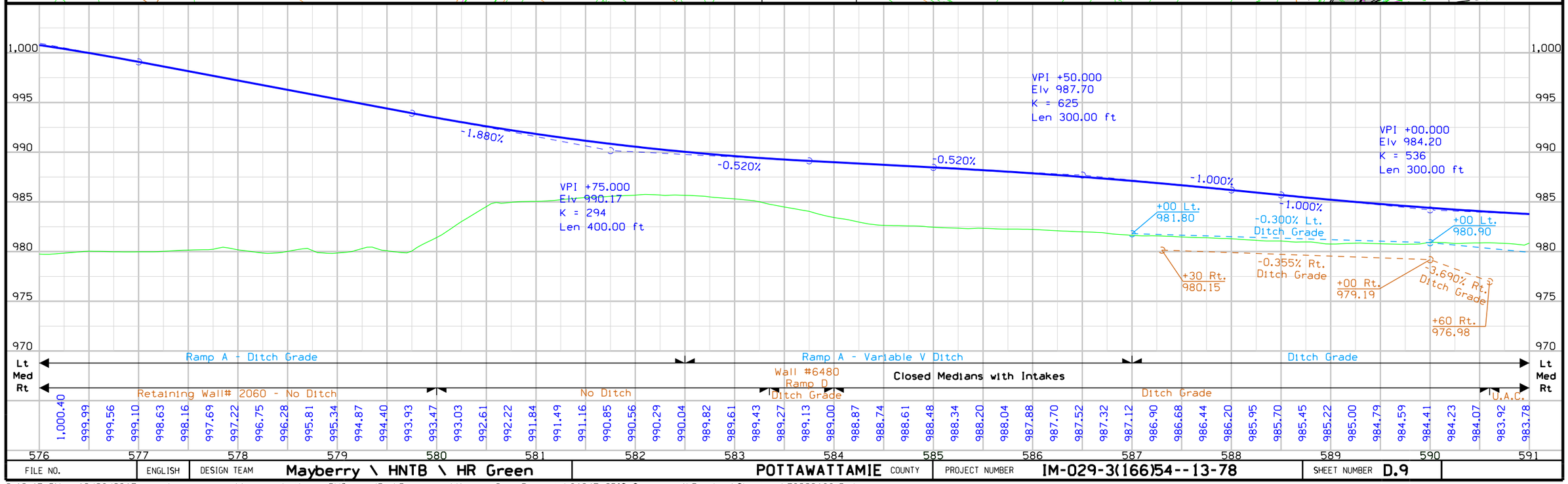




FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER D.8

9:38:55 AM 10/26/2017 mplummer pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\78029166-D.sht





FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER D.9

KANE TWP
T-75 R-44W
SEC.28

Existing Levee

Levee Easement

Sta 604+60
Install 48"X184' RCP
FL Lt. = 973.80
FL Rt. = 974.00

STA 605+00.00
END PROJECT
END PAVING

Sta. 598+00.00
Start Lane Taper

595 600 605

70:1 TAPER

I-29(ML029)

70:1 TAPER

Sta. 605+00.00
End Lane Taper

E2(C) SIGN F02 W G V BLDG. HO.

0 FEET 50

990
985
980
975
970
965

VPI +00.000
Elv 980.68
K = 389
Len 300.00 ft

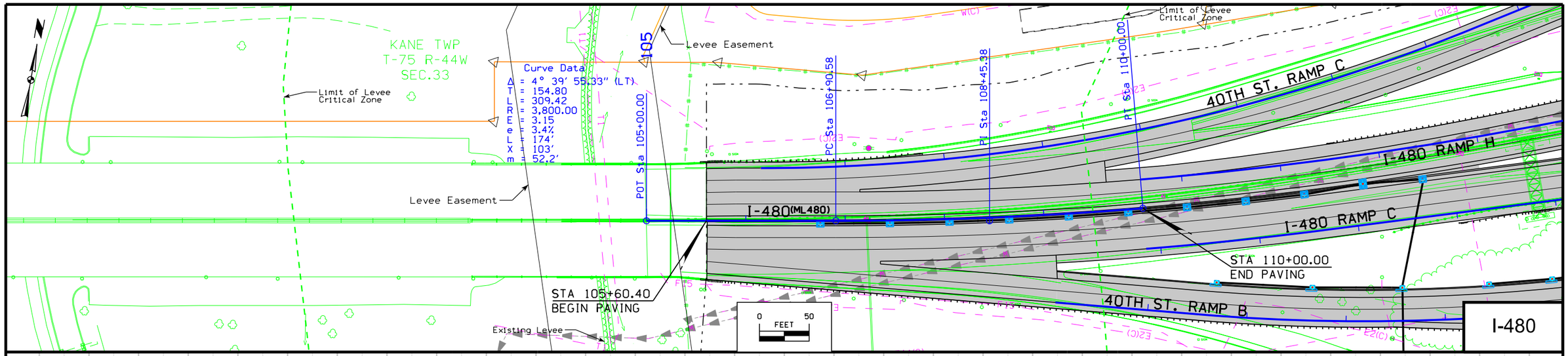
-0.440%
-0.967% Lt. Ditch Grade
-0.273% Lt. Ditch Grade
+00 Lt. 978.00
+60 Lt. 977.84
-0.440%
+0.332%

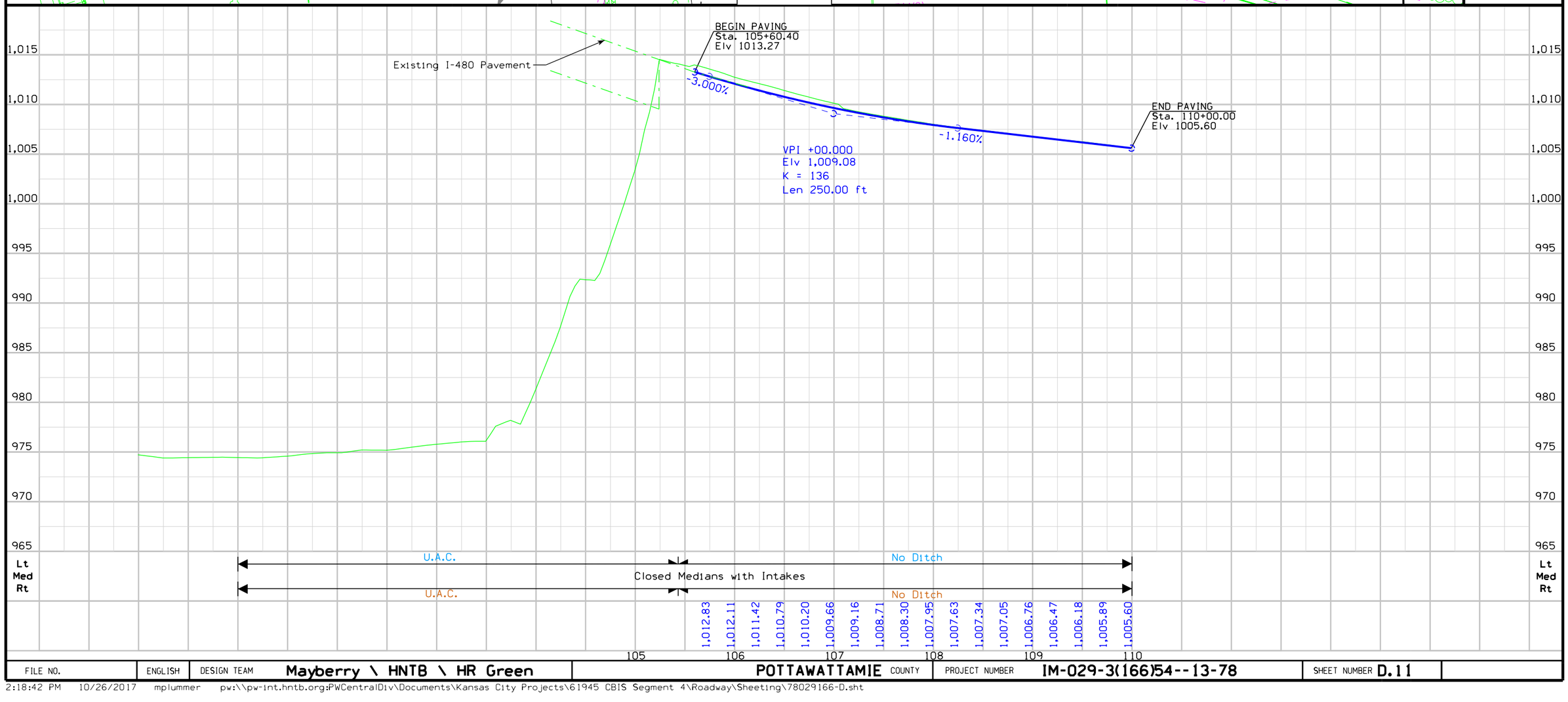
END PROJECT
END PAVING
Sta. 605+00.00
Elv 983.00

Existing I-29 Shoulder Pavement

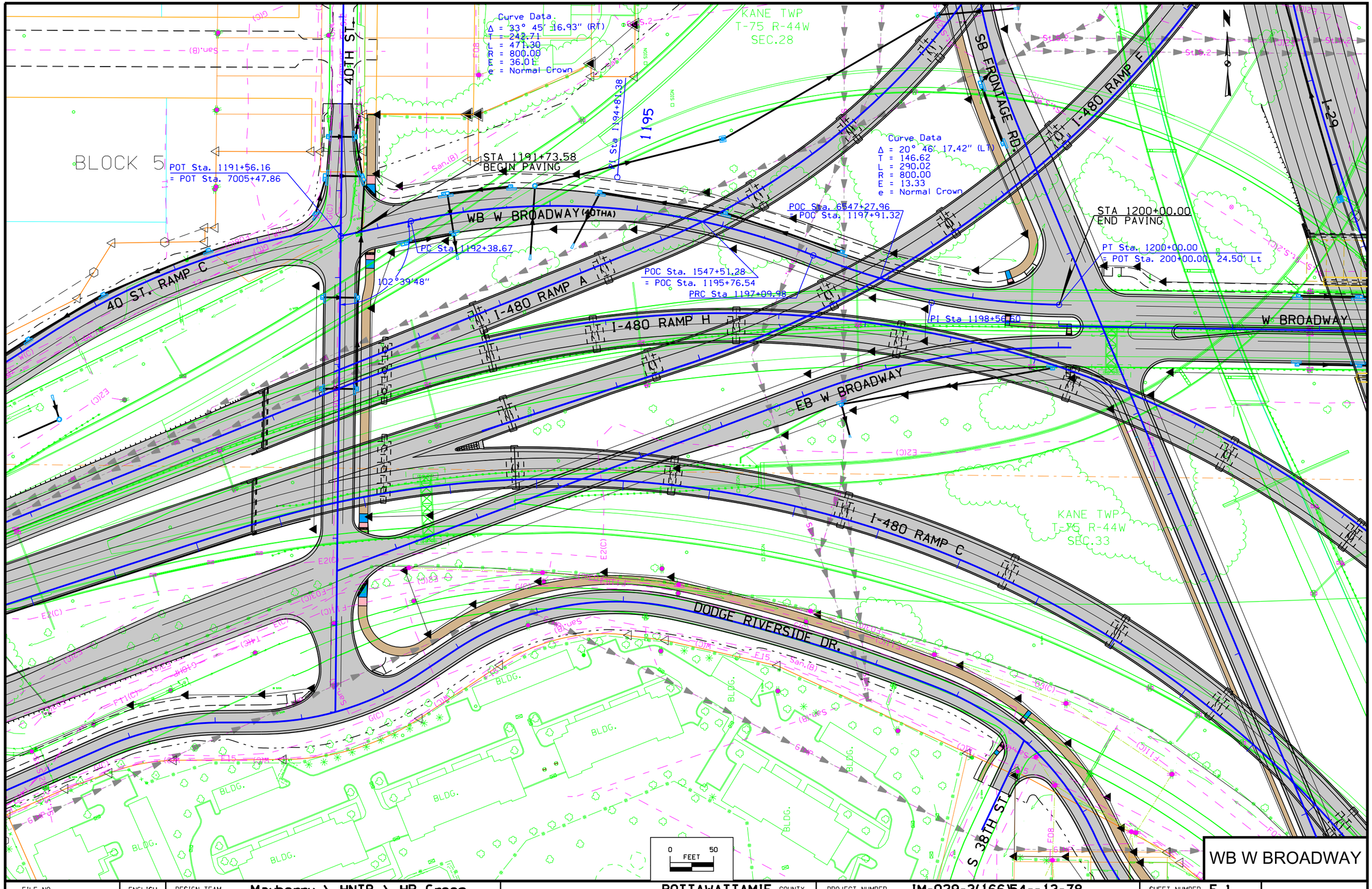
Lt	Ditch Grade		U.A.C.	
Med		Closed Medians with Intakes		Variable - V Ditch
Rt		U.A.C.		

| | | | |



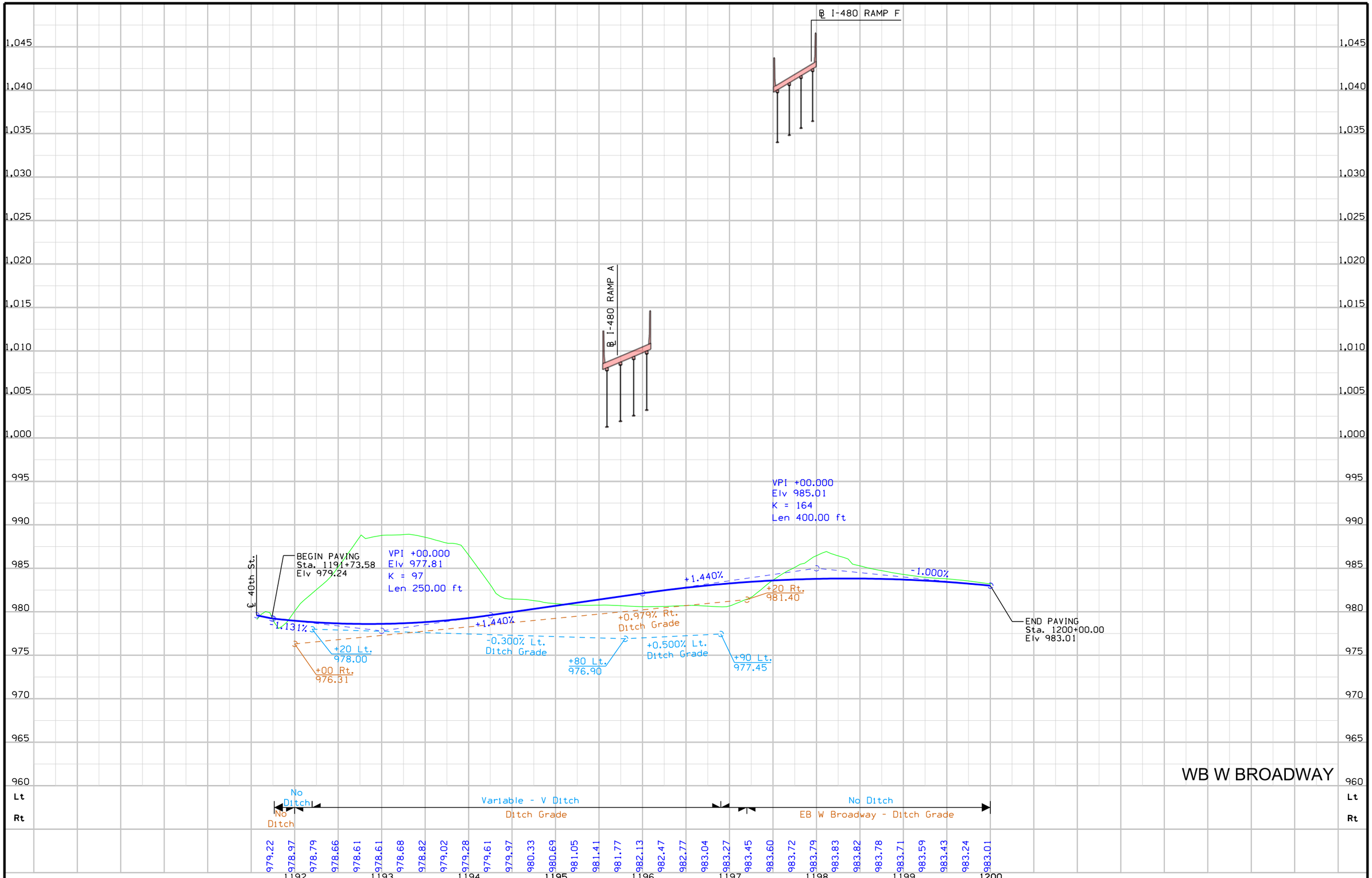


FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER D.11



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER E.1

9:26:43 AM 10/26/2017 mplummer pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\78029166-E.sht



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER E.2

I-480 RAMP A

I-480 RAMP H

WB W BROADWAY

KANE TWP
T-75 R-44W
SEC.28

PI Sta 4198+66.43

STA 4191+44.82
BEGIN PAVING

40TH ST. RAMP B

4195

4200

SB FRONTAGE RD.

STA 4200+14.90
END PAVING

I-29

EB W BROADWAY (40TH ST)

POT STA.4191+26.58
POT STA. 7001+62.40

111°12'45"

POT Sta. 4194+27.57
= POC Sta. 3552+47.70

40TH ST.

I-480 RAMP C

POT Sta. 4197+14.37
= PC Sta. 4197+14.37

POT Sta. 4199+35.85
= POC Sta. 8551+38.87

PI Sta. 4200+14.90
= POT Sta. 200+14.90, 24.50' Rt.

Curve Data
Δ = 21° 31' 26.59" (RT)
T = 152.06
L = 300.53
R = 800.00
E = 14.32
e = Normal Crown

W BROADWAY

DODGE RIVERSIDE DR.

BLDG.

KANE TWP
T-75 R-44W
SEC.33

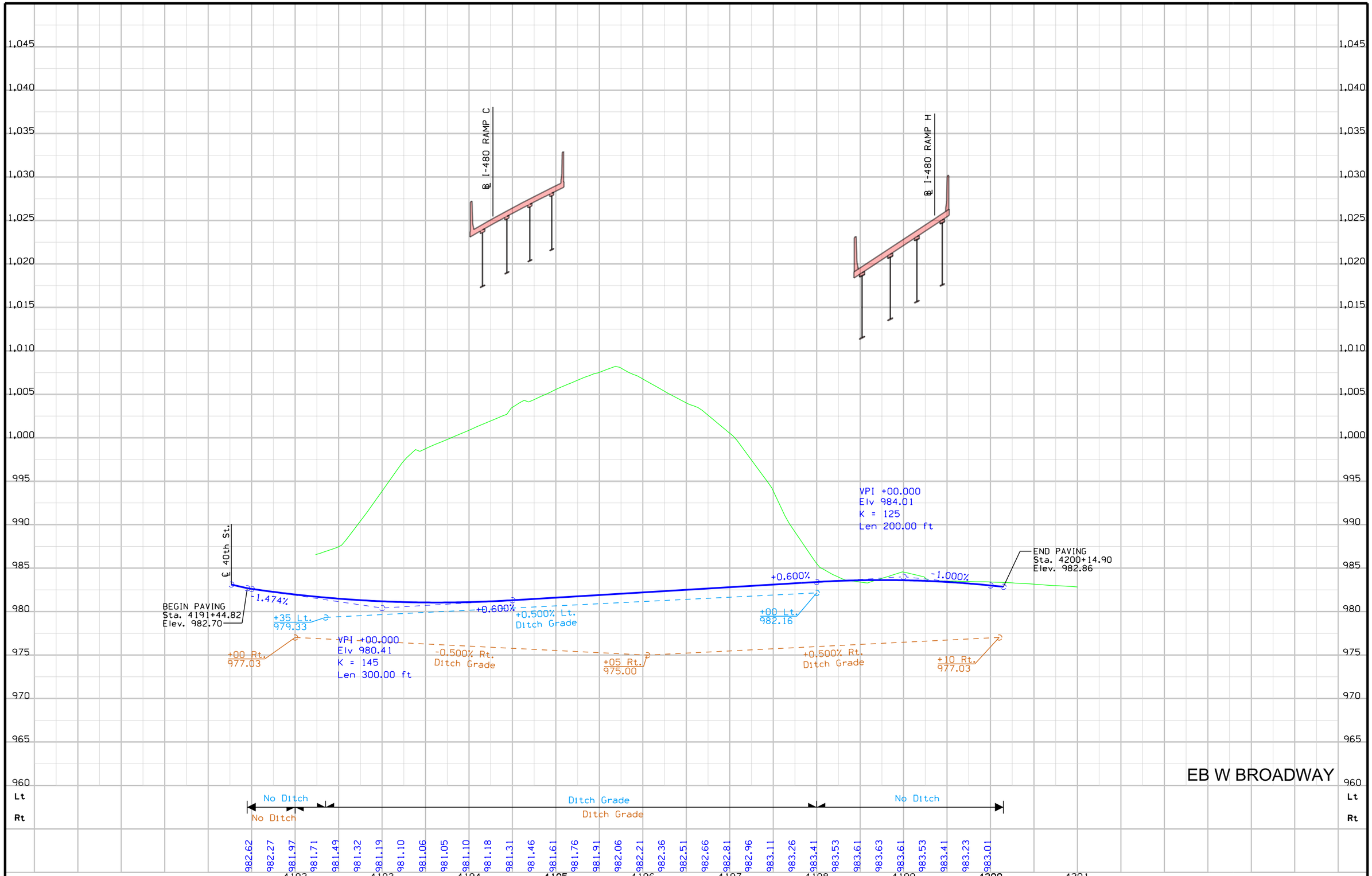
Golf Course

0 FEET 50

EB W BROADWAY

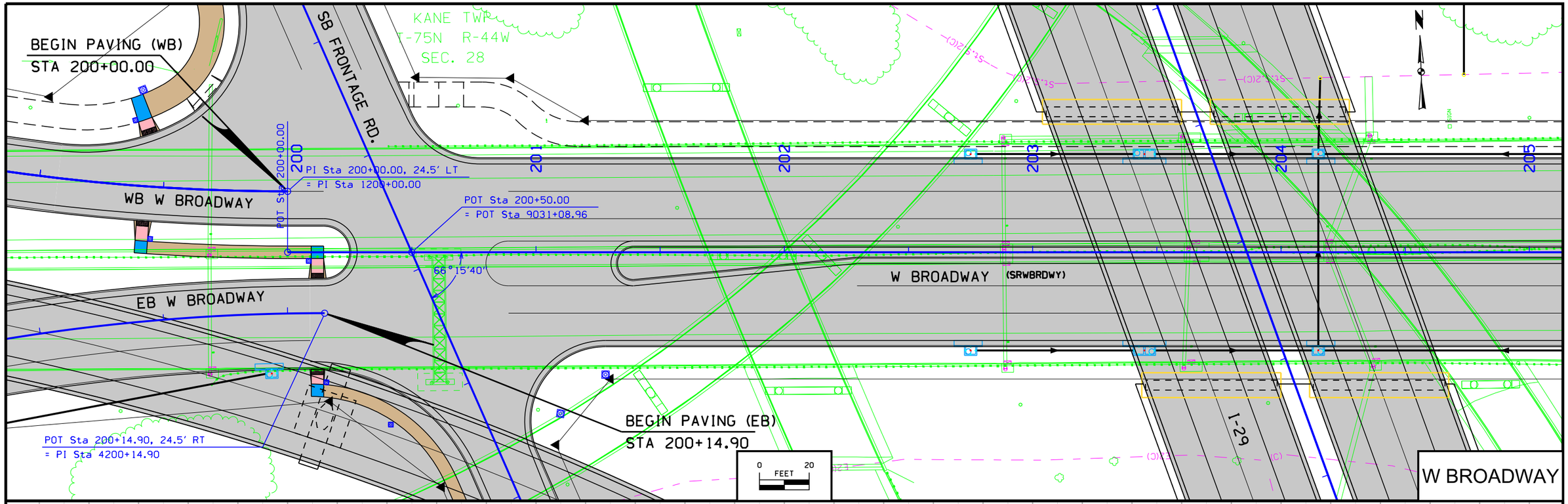
FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER	E.3

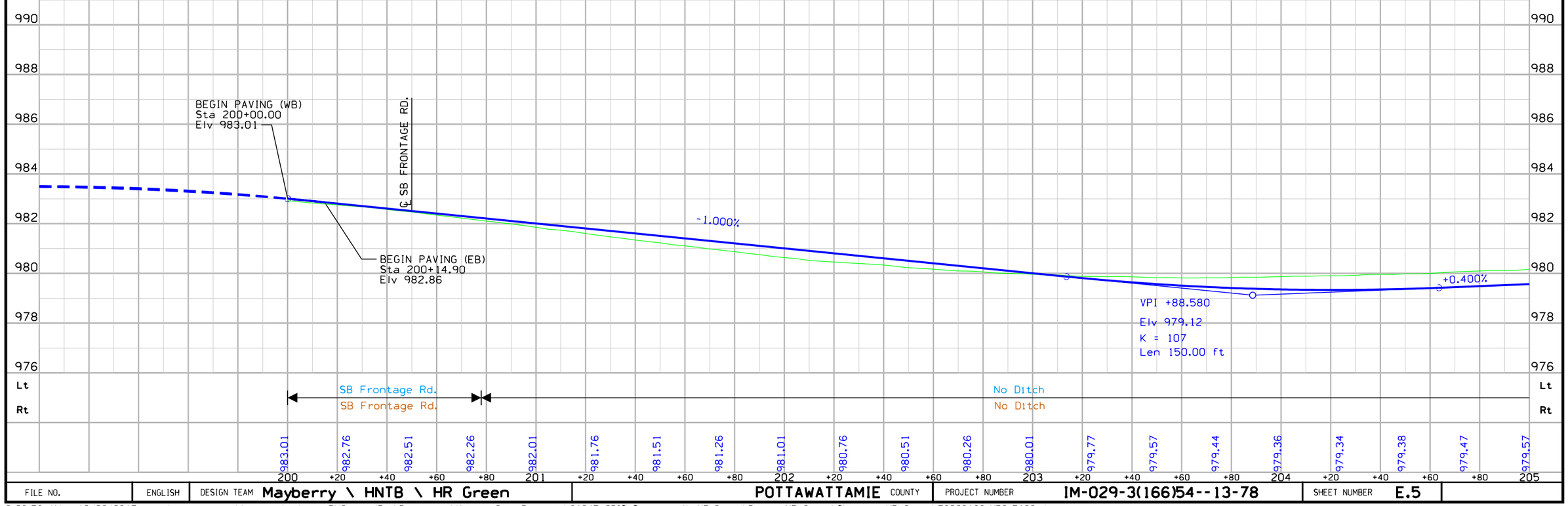
9:26:50 AM 10/26/2017 mplummer pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\78029166-E.sht



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER	E.4

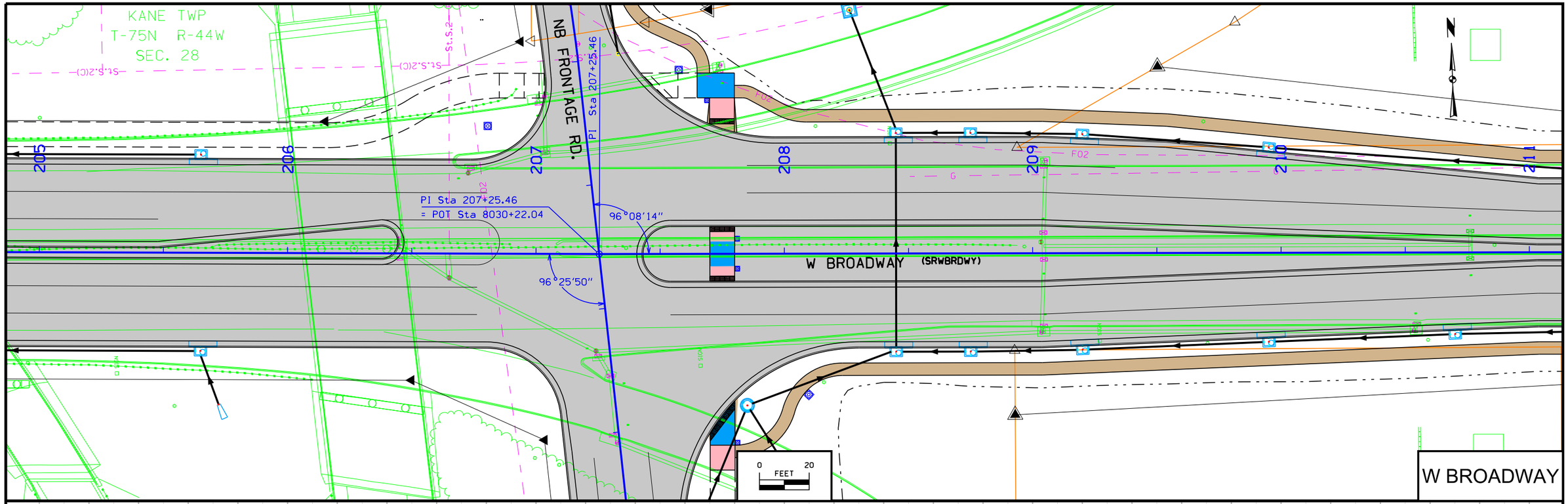
3:13:29 PM 10/26/2017 mplummer pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\78029166-E.sht

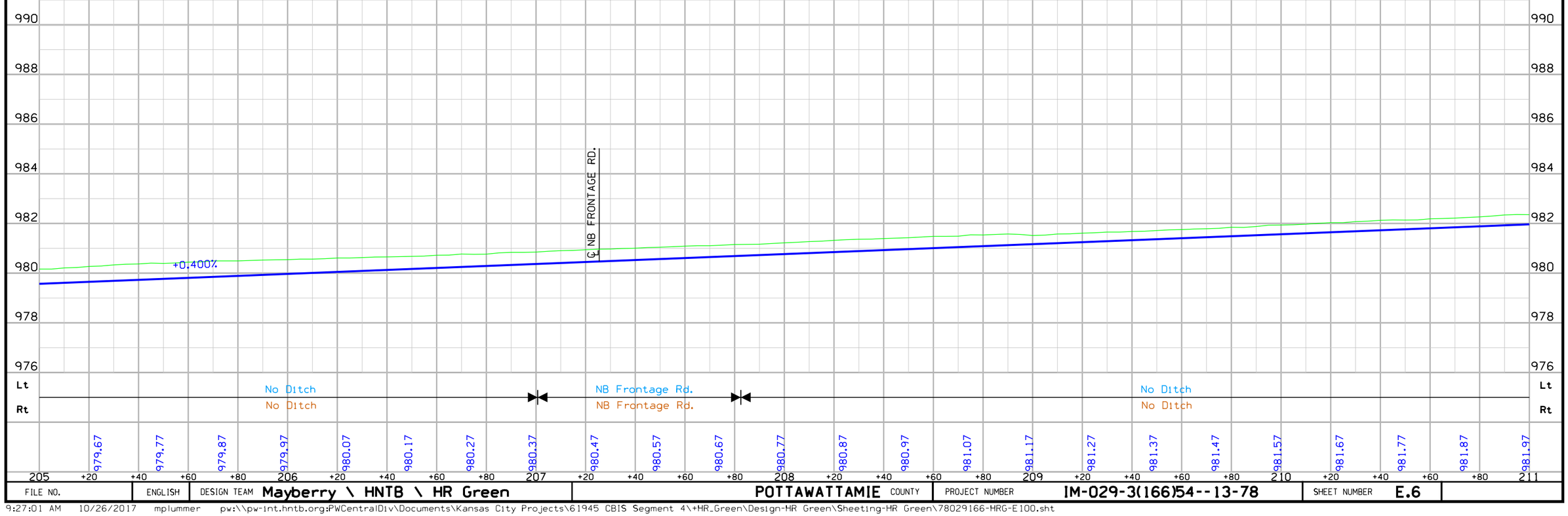




FILE NO.	ENGLISH	DESIGN TEAM Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER IM-029-3(166)54--13-78	SHEET NUMBER E.5

9:26:58 AM 10/26/2017 mplummer pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\+HR_Green\Design-HR Green\Sheeting-HR Green\78029166-HRG-E100.sht





FILE NO.	ENGLISH	DESIGN TEAM Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER IM-029-3(166)54--13-78	SHEET NUMBER E.6

9:27:01 AM 10/26/2017 mplummer pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\+HR_Green\Design-HR Green\Sheeting-HR Green\78029166-HRG-E100.sht

KANE TWP
T-75N R-44W
SEC. 28

N 36TH ST.

W BROADWAY (SRWBRDWY)

211 212 213 214 215

PI Sta 213+07.53

PI Sta 213+45.07

POT Sta 215+00.81

END PAVING
STA 213+07.53

0 FEET 20

W BROADWAY

END PAVING
Sta 213+07.53
Elv 982.80

990 988 986 984 982 980 978 976

Lt No Ditch
Rt No Ditch

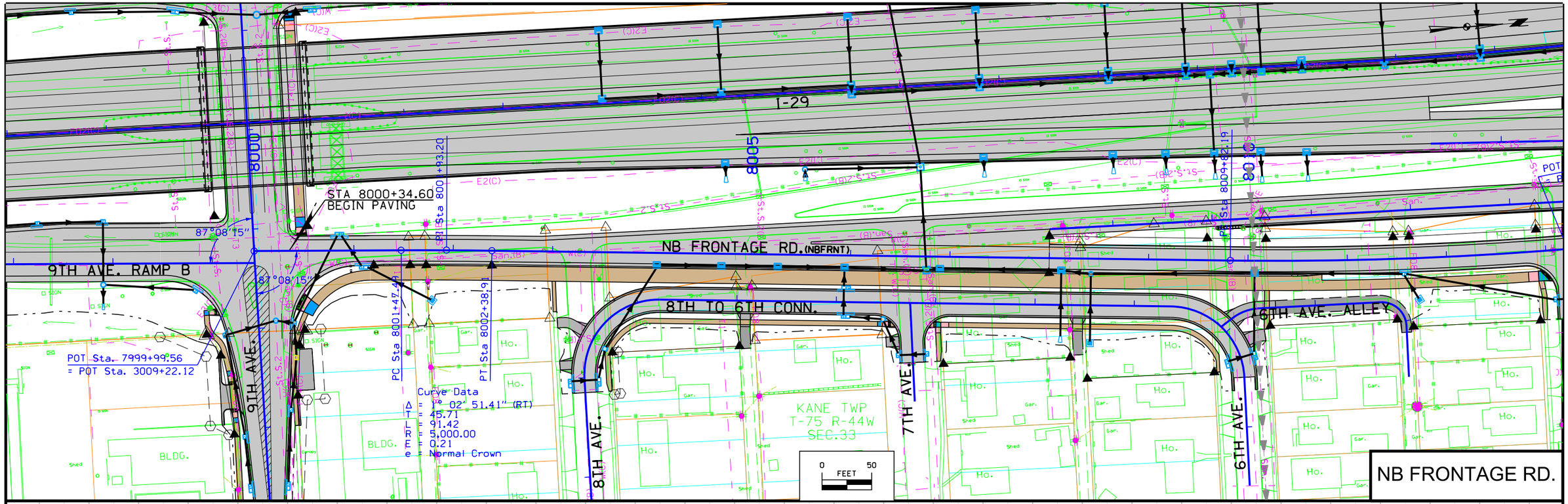
U.A.C.
U.A.C.

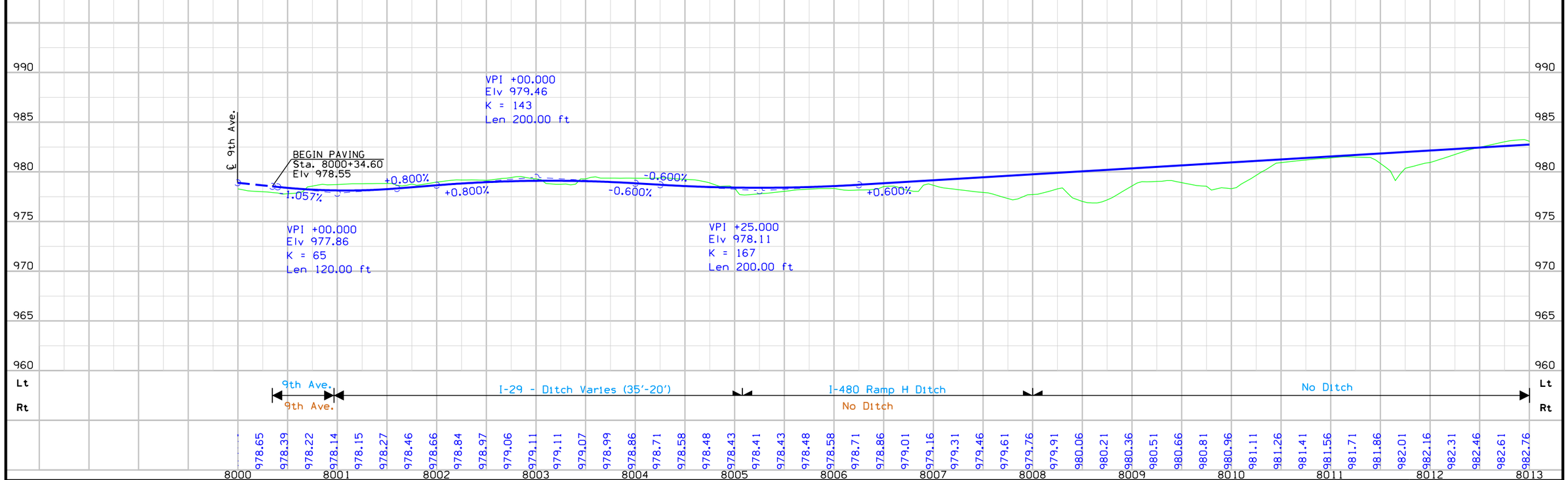
982.07 982.17 982.27 982.37 982.47 982.57 982.67 982.77

211 +20 +40 +60 +80 212 +20 +40 +60 +80 213

FILE NO.	ENGLISH	DESIGN TEAM Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER IM-029-3(166)54--13-78	SHEET NUMBER E.7

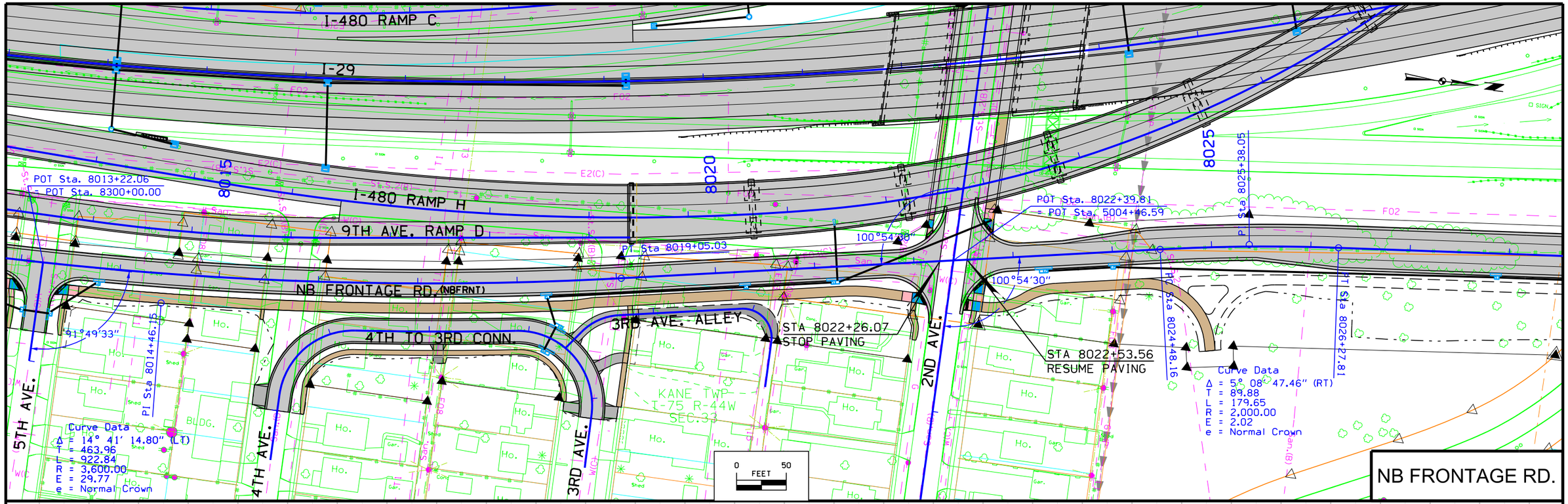
9:27:04 AM 10/26/2017 mplummer pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\+HR_Green\Design-HR Green\Sheeting-HR Green\78029166-HRG-E100.sht

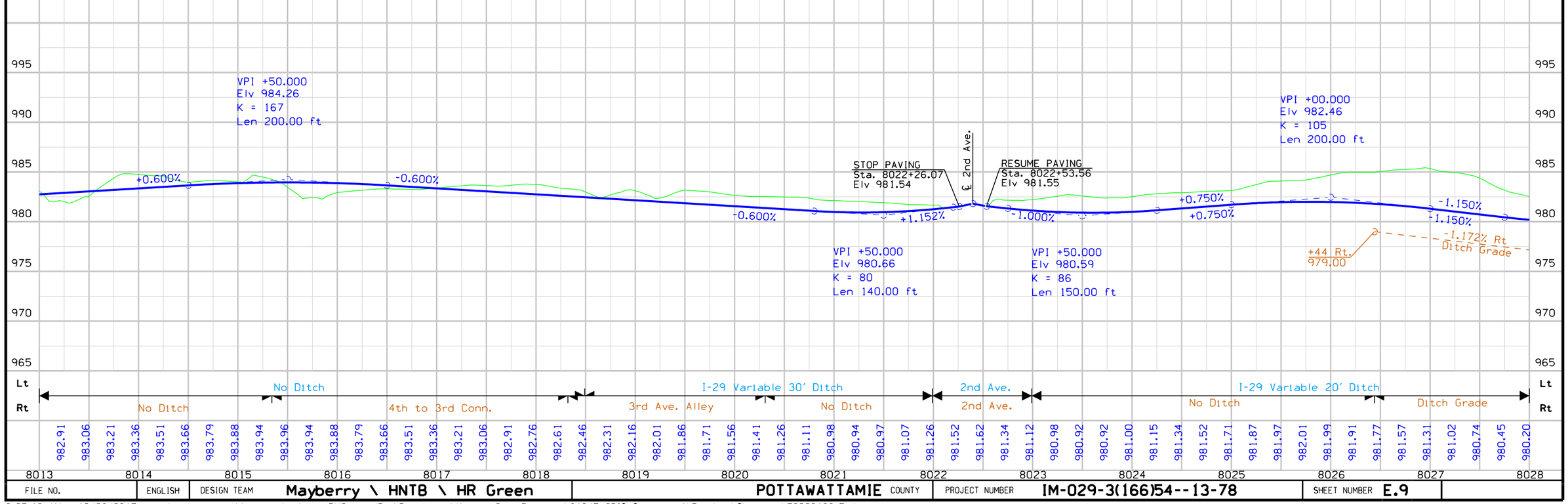




FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER E.8

9:27:09 AM 10/26/2017 mplummer pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\78029166-E.sht





FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER	E.9

KANE TWP
T-75N R-44W
SEC. 28

Curve Data
Δ = 9° 07' 28.77" (LT)
T = 79.80
L = 159.26
R = 1,000.00
E = 3.18
e = Normal Crown

Curve Data
Δ = 9° 39' 15.74" (RT)
T = 84.45
L = 168.50
R = 1,000.00
E = 3.56
e = Normal Crown

Curve Data
Δ = 5° 20' 28.51" (RT)
T = 46.65
L = 93.22
R = 1,000.00
E = 1.09
e = Normal Crown

POT Sta 8043+23.28
= POT Sta 4800+00.00

POT Sta 8036+65.76
= POT Sta 4700+00.00

Sta 8029+58.95
PC Sta 8031+08.21
PRC Sta 8032+61.56
PI Sta 8033+46.01
PT Sta 8034+30.06
Sta 8042+27.93
PC Sta 8041+81.28
Sta 8042+47.51

8030
8035
8040

W BROADWAY
AVE. A ALLEY
AVE. A
AVE. B
AVE. C
AVE. D
NB FRONTAGE RD.
(SRFRT_NB)

83°34'10"
83°51'46"
79°25'24"
83°41'

STOP PAVING
STA 8029+83.79

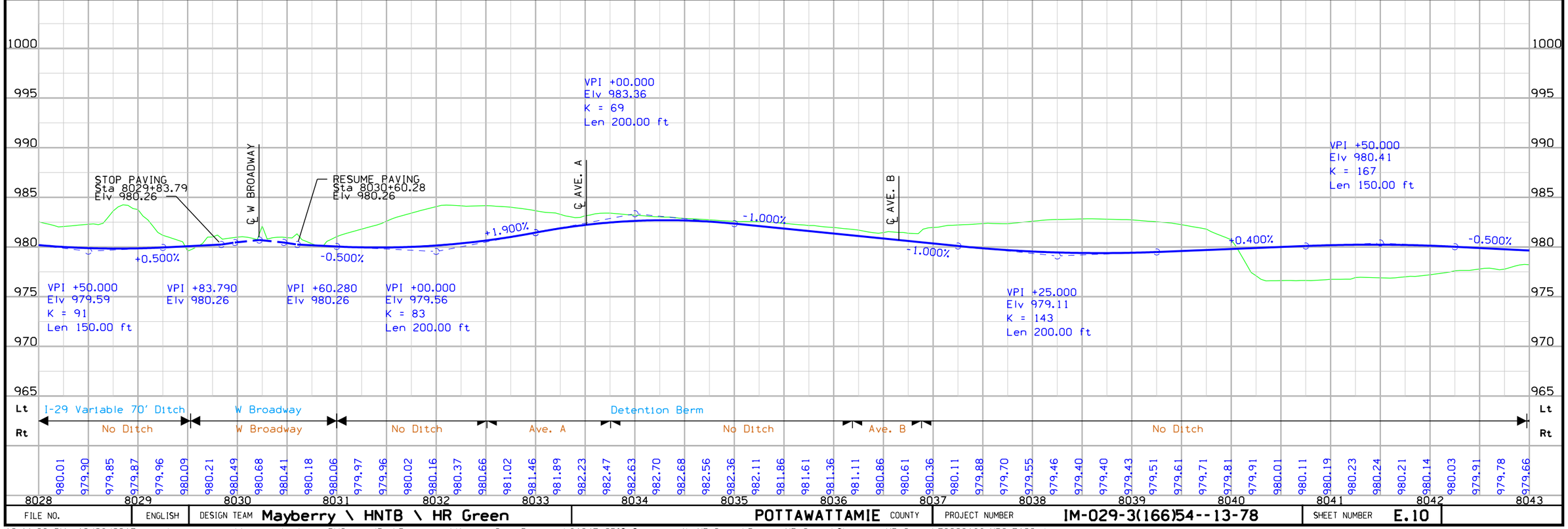
RESUME PAVING
STA 8030+60.28

POT Sta 8030+22.04
= PI Sta 207+25.46

POT Sta 8033+51.44
= POT Sta 4600+00.00

0 FEET 50

NB FRONTAGE RD.



FILE NO.	ENGLISH	DESIGN TEAM Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER IM-029-3(166)54--13-78	SHEET NUMBER E.10

12:11:08 PM 10/26/2017 mplummer pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\+HR_Green\Design-HR Green\Sheeting-HR Green\78029166-HRG-E100.sht

KANE TWP
T-75N R-44W
SEC. 28

I-480 RAMP F

I-29

POT Sta 8043+23.28
= POT Sta 4800+00.00

Curve Data
Δ = 15° 33' 04.96" (RT)
T = 273.10
L = 542.85
R = 2,000.00
E = 18.56
e = Normal Crown

PI Sta 8048+57.82

NB FRONTAGE RD.
(SRFRT_NB)

31°01'20"

PC Sta 8042+74.51

PC Sta 8045+84.72

N 37TH ST.

AVE. D

Type 'B' Case 1 Inlt.

PT Sta 8051+27.57

POT Sta 8052+84.38
= POT Sta 6007+00.05

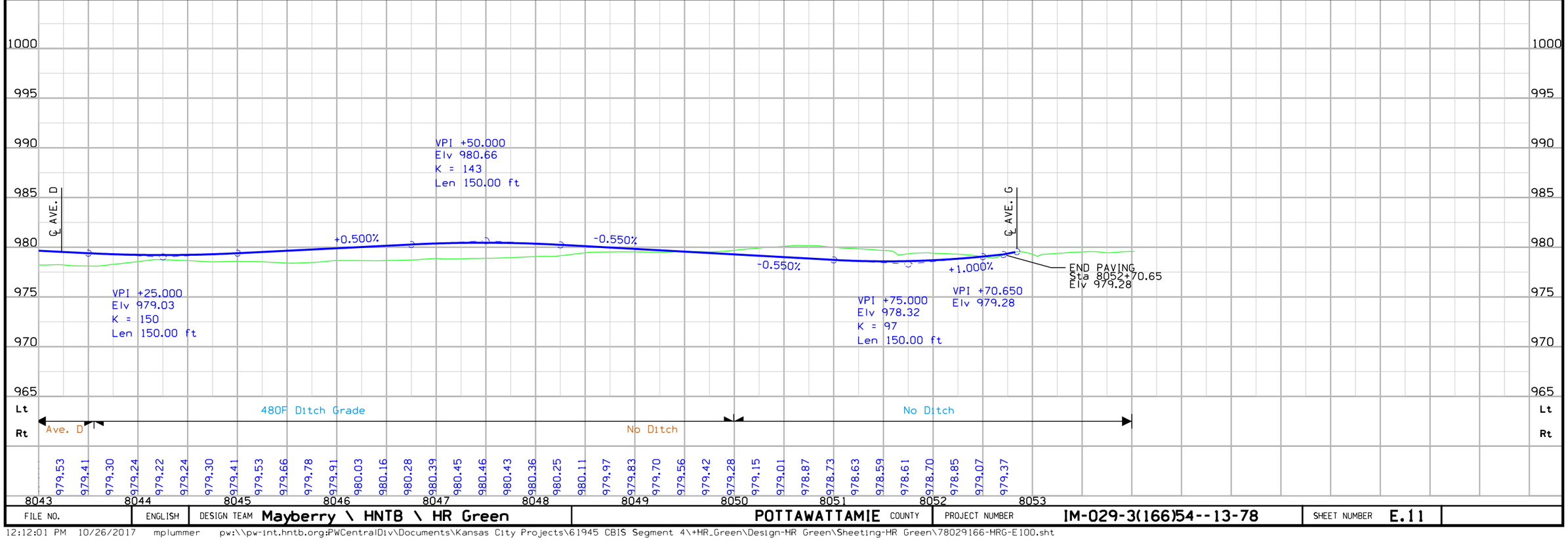
END PAVING
STA 8052+70.65

AVE. G

AVE. G RAMP D

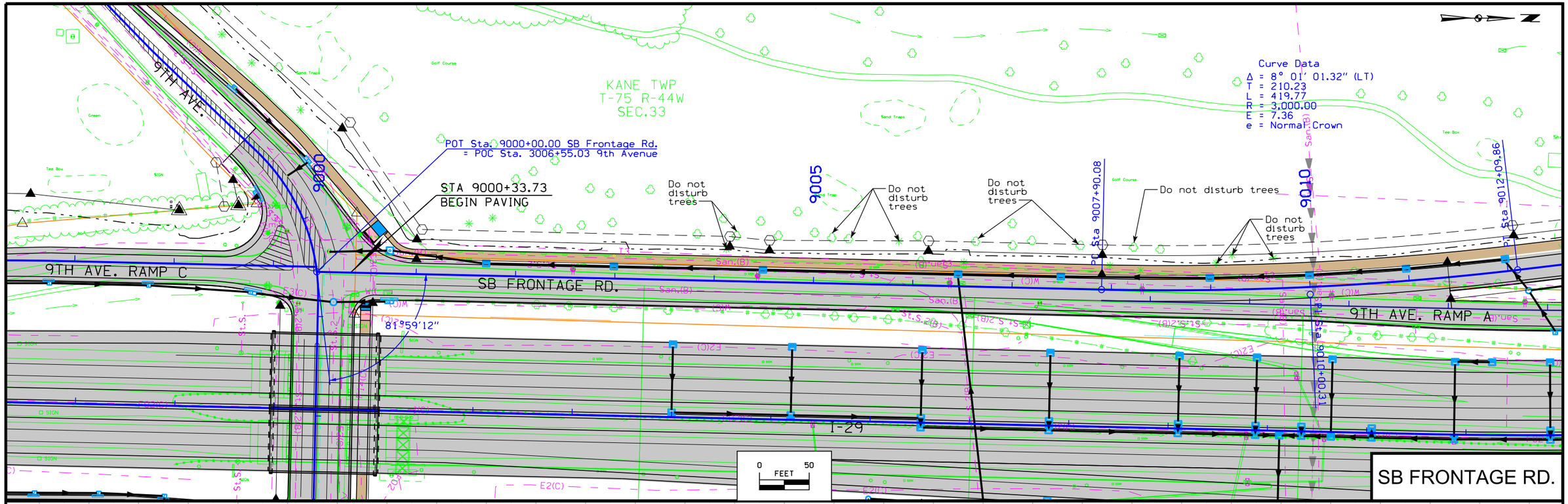
NB FRONTAGE RD.

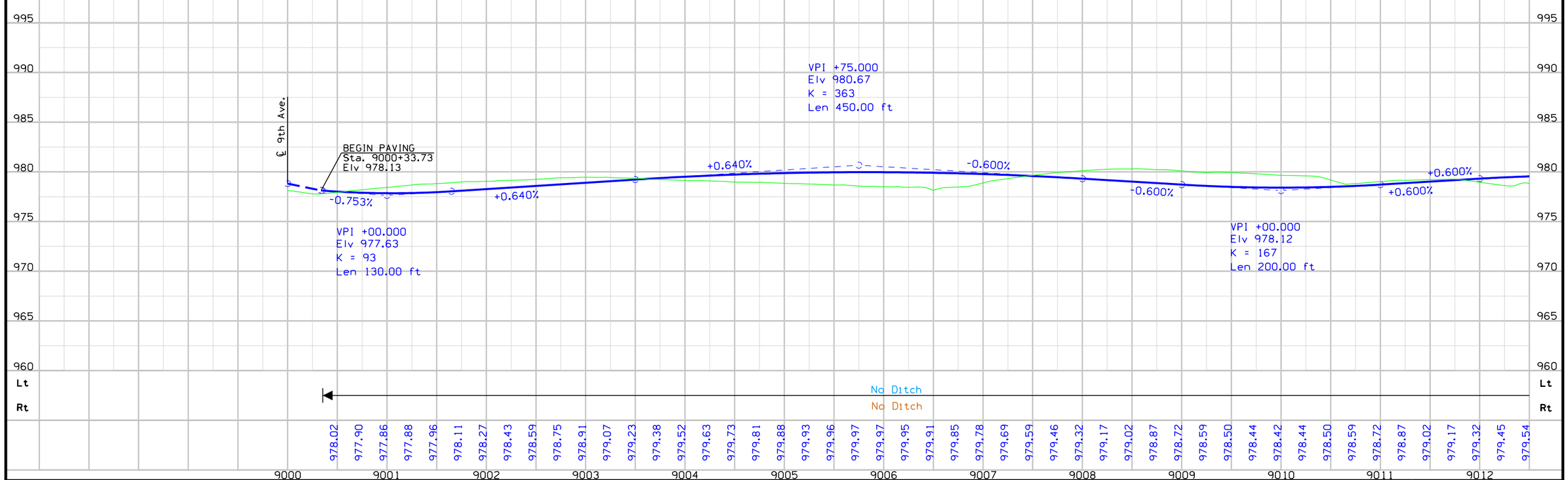
0 FEET 50



FILE NO.	ENGLISH	DESIGN TEAM Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER IM-029-3(166)54--13-78	SHEET NUMBER E.11

12:12:01 PM 10/26/2017 mplummer pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\+HR_Green\Design-HR Green\Sheeting-HR Green\78029166-HRG-E100.sht





FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER E.12

KANE TWP
T-75 R-44W
SEC.33

POT Sta. 9015+81.15
= POT Sta. 9101+00.00

POT Sta 9012+09.86

Do not disturb trees

9015

W 4TH AVE.

POC Sta. 9018+97.76
= POT Sta. 9201+00.00
= PC Sta 9018+95.68

81°33'49"

Sta 9018+95.68

W 3RD AVE.

9020

Curve Data
Δ = 14° 59' 07.77" (LT)
T = 131.52
L = 261.55
R = 1,000.00
E = 8.61
e = Normal Crown

Do not disturb garage

81°37'28"

PI Sta 9021+57.22

113°08'01"

W 2ND AVE.

DODGE RIVERSIDE DR.

9025

POT Sta. 9022+57.35
= POT Sta. 5000+00.00
= POT Sta. 4020+47.51

STA 9022+72.03
RESUME PAVING

POT Sta. 9025+38.55
= POC Sta. 3543+36.03

SB FRONTAGE RD. (SBFRNT)

9TH AVE. RAMP A

I-480 RAMP C

I-29

STA 9022+42.67
STOP PAVING

PI Sta 9020+27.20

I-480 RAMP H

9TH AVE. RAMP D

NB FRONTAGE RD.

4TH TO 3RD CONN.

3RD AVE. ALLEY

5TH AVE.

4TH AVE.

3RD AVE.

2ND AVE.

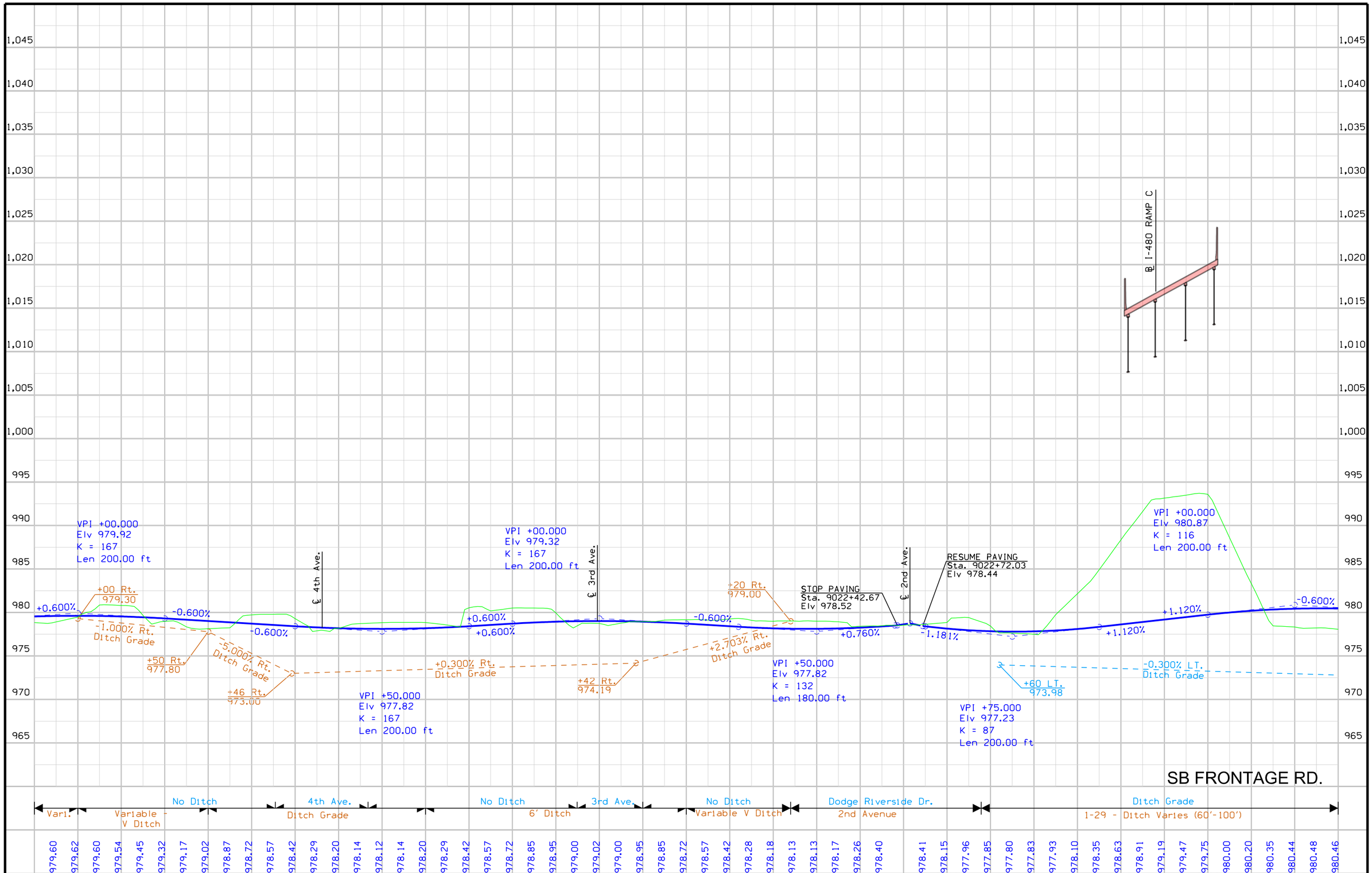
KANE TWP
T-75 R-44W
SEC.33

0 50
FEET

SB FRONTAGE RD.

FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER E.13

9:27:32 AM 10/26/2017 mplummer pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\78029166-E.sht



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER E.14

9:27:34 AM 10/26/2017 mplummer pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\78029166-E.sht

KANE TWP
T-75 R-44W
SEC.33

KANE TWP
T-75 R-44W
SEC.28

STA 9030+68.55
STOP PAVING

STA 9031+46.11
RESUME PAVING

POT Sta. 9030+24.06
= POC Sta. 8549+83.66

POT Sta. 9031+07.33
= POT Sta. 200+50.00

POT Sta. 9033+04.38
= POC Sta. 6549+47.17

POC Sta. 9035+29.88
= POC Sta. 1551+74.37

PI Sta 9036+10.62

POT Sta. 9037+60.58
= POT Sta. 9302+50.00

Sta 9038+54.09

72°27'32"

66°15'40"

66°15'40"

135°45'33"

84°43'13"

Curve Data
Δ = 36° 07' 15.13" (RT)
T = 260.87
L = 504.34
R = 800.00
E = 41.46
e = Normal Crown

9030

9033+49.78

9035

9040

I-480 RAMP C

I-480 RAMP A

I-480 RAMP F

I-480 RAMP H

EB W BROADWAY

WB W BROADWAY

W BROADWAY

W AVE B

N 38TH ST

SB FRONTAGE RD (SBFRNT)

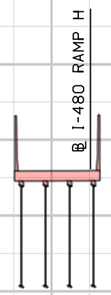
NB FRONTAGE RD.

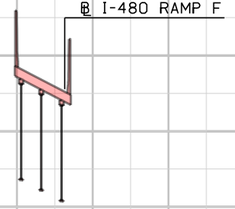
0 FEET 50

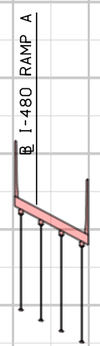
SB FRONTAGE RD.

FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER	E.15

9:27:37 AM 10/26/2017 mplummer pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\78029166-E.sht







1,050 1,045 1,040 1,035 1,030 1,025 1,020 1,015 1,010 1,005 1,000 995 990 985 980 975 970 965

STOP PAVING
Sta. 9030+68.55
Elv 982.02

℄ W Broadway

RESUME PAVING
Sta. 9031+46.11
Elv 982.34

℄ W Ave. B

-0.600%
+2.241%
-1.406%
+0.600%
-0.640%

+1.600% LT. Ditch Grade
+50 LT. 972.81
+20 LT. 977.13

VPI +50.000
Elv 979.37
K = 70
Len 200.00 ft

VPI +00.000
Elv 978.77
K = 100
Len 200.00 ft

+00 LT. 977.45
-0.318% LT. Ditch Grade
+2.250% LT. Ditch Grade
+50 LT. 978.00
+10 LT. 977.10

VPI +00.000
Elv 981.77
K = 161
Len 200.00 ft

SB FRONTAGE RD.

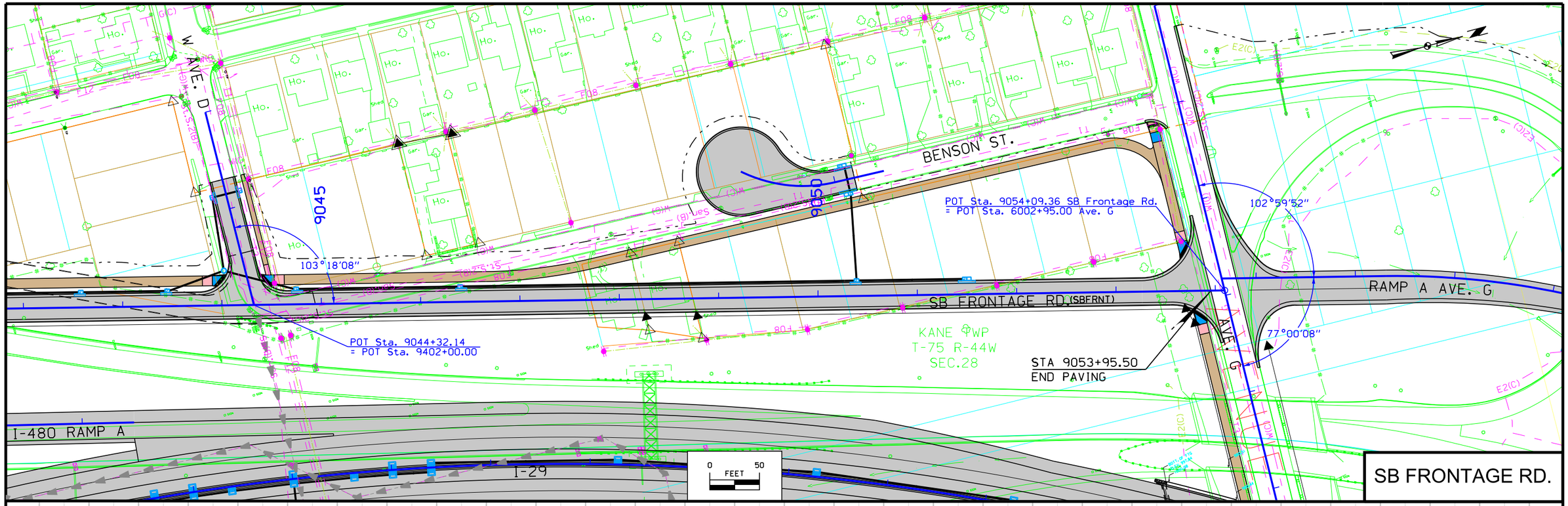
	Ditch Grade	W Broadway	No Ditch	Variable V Ditch	No Ditch	Ave B	No Ditch
Lt	I-29 - Ditch Varies (60'-100')	W Broadway	I-29 - Ditch Varies (130'-170')				480A - Ditch Grade
Rt							

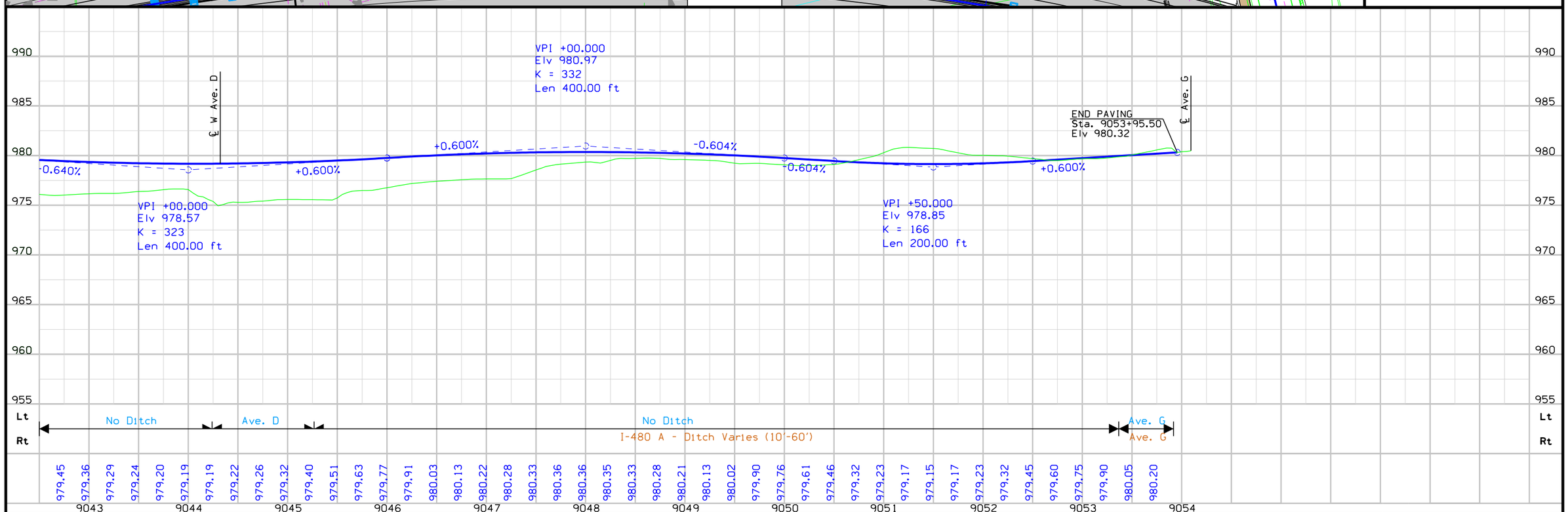
980.39 980.27 980.12 979.97 979.86 979.85 979.92 980.08 980.33 980.67 981.09 981.61 982.28 981.93 981.58 981.23 980.88 980.52 980.17 979.85 979.60 979.40 979.27 979.20 979.19 979.25 979.37 979.52 979.67 979.82 979.97 980.12 980.27 980.42 980.57 980.72 980.87 981.02 981.17 981.30 981.39 981.44 981.46 981.43 981.37 981.27 981.13 980.97 980.81 980.65 980.49 980.33 980.17 980.01 979.85 979.70 979.57

9028 9029 9030 9031 9032 9033 9034 9035 9036 9037 9038 9039 9040 9041 9042

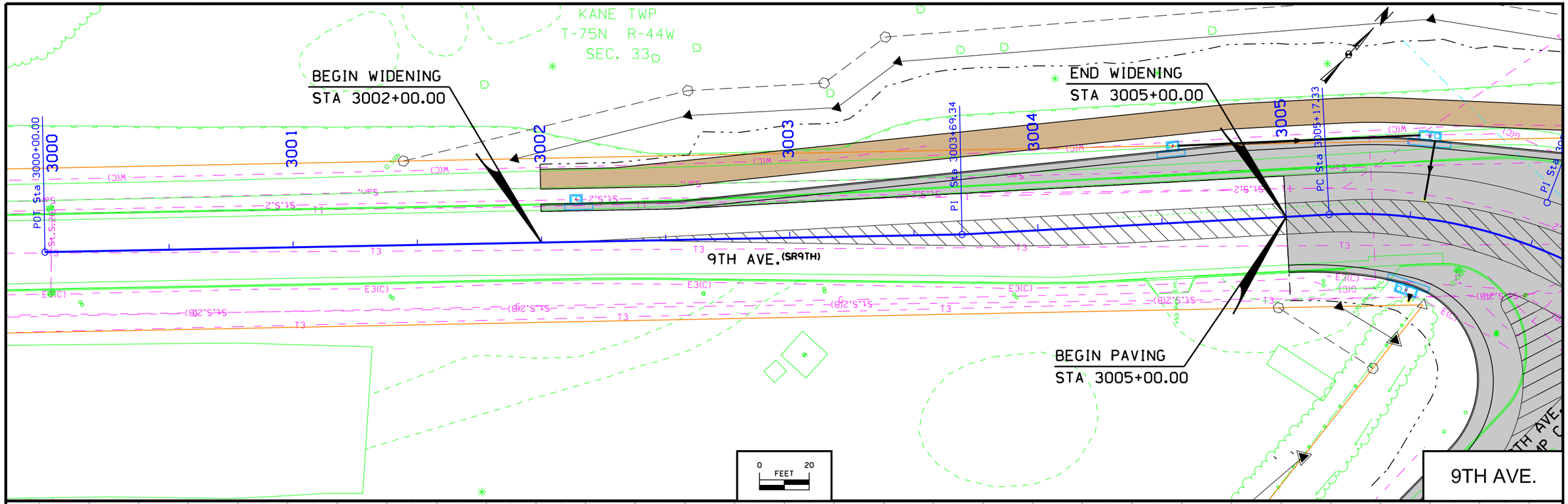
FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER	E.16

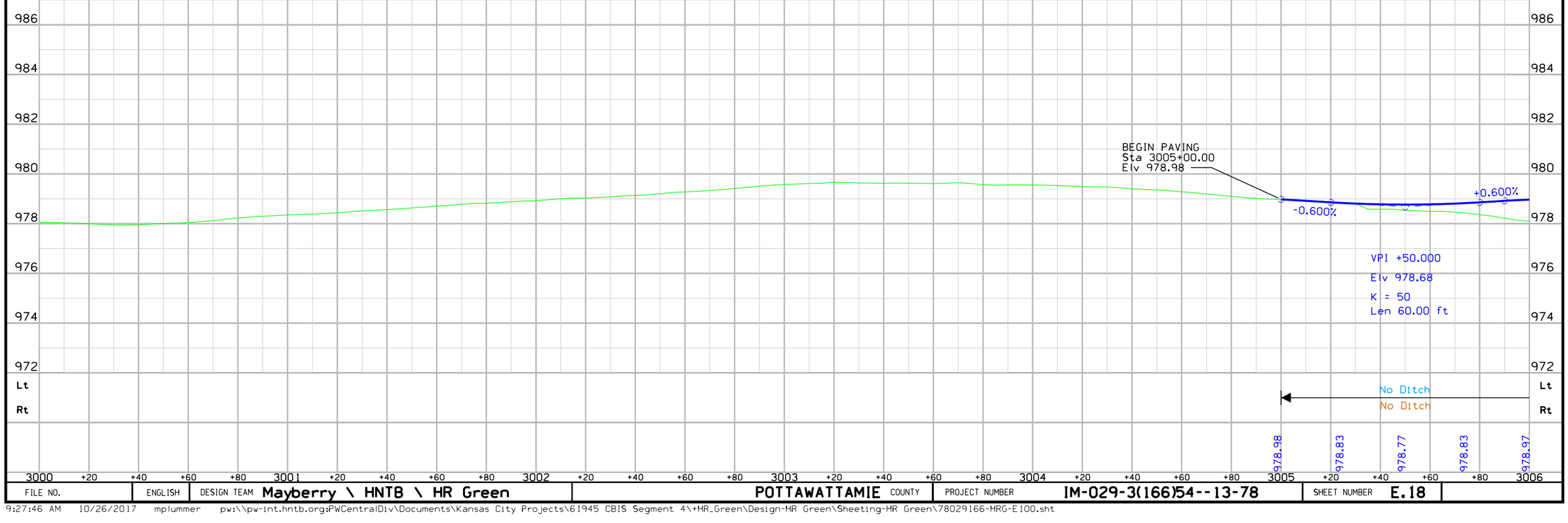
3:16:16 PM 10/26/2017 mplummer pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\78029166-E.sht





FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER E.17





FILE NO.	ENGLISH	DESIGN TEAM Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER IM-029-3(166)54--13-78	SHEET NUMBER E.18

9:27:46 AM 10/26/2017 mplummer pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\+HR_Green\Design-HR Green\Sheeting-HR Green\78029166-HRG-E100.sht

Curve Data
Δ = 47° 27' 39.58" (RT)
T = 87.92
L = 165.67
R = 200.00
E = 18.47
e = Normal Crown

KANE TWP
T-75N R-44W
SEC. 33

SB FRONTAGE RD.
NB FRONTAGE RD.
9TH AVE. RAMP C
9TH AVE. RAMP B
9TH AVE. (SR9TH)
I-29

3005 3006 3007 3008 3009 3010 3011

PC Sta 3005+05.05
PI Sta 3006+83.00
PT Sta 3006+83.00
POC Sta 3006+49.97
= PI Sta 3517+43.07
POC Sta 3006+55.03
= PI Sta 9000+01.17
POT Sta 3007+93.12
= POT Sta 517+41.80
PI Sta 3009+34.14
= PI Sta 8000+00.00
= PI Sta 2517+42.85

81°59'12"
99°27'46"
90°0'0"
92°51'45"
87°08'15"
86°39'16"
93°20'44"

Do not disturb sign
+67 Prop. Type "B" Case 1 Ent.

0 FEET 20

9TH AVE.

VPI +20.000
Elv 979.10
K = 43
Len 60.00 ft

VPI +00.000
Elv 980.22
K = 35
Len 100.00 ft

VPI +50.000
Elv 979.78
K = 54
Len 100.00 ft

VPI +50.000
Elv 978.68
K = 50
Len 60.00 ft

VPI +00.000
Elv 978.46
K = 39
Len 100.00 ft

VPI +50.000
Elv 978.54
K = 42
Len 100.00 ft

-0.600%
+0.600%
-0.800%
+1.760%
-1.120%
+1.240%
-0.600%
+0.3%+0.3%
+1.1%

Lt	No Ditch	SB Frontage Rd.	No Ditch	NB Frontage Rd.	No Ditch
Rt	No Ditch	SB Frontage Rd.	No Ditch	NB Frontage Rd.	No Ditch

978.83 978.77 978.83 978.97 978.99 978.86 978.74 978.78 978.98 979.34 979.69 979.86 979.85 979.66 979.38 979.10 978.89 978.84 978.92 979.16 979.41 979.55 979.57 979.48

3005 +20 +40 +60 +80 3006 +20 +40 +60 +80 3007 +20 +40 +60 +80 3008 +20 +40 +60 +80 3009 +20 +40 +60 +80 3010 +20 +40 +60 +80 3011

FILE NO.	ENGLISH	DESIGN TEAM	COUNTY	PROJECT NUMBER	SHEET NUMBER
		Mayberry \ HNTB \ HR Green	POTTAWATTAMIE	IM-029-3(166)54--13-78	E.19

9:28:07 AM 10/26/2017 mplummer pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\+HR_Green\Design-HR Green\Sheeting-HR Green\78029166-HRG-E100.sht

KANE TWP
T-75N R-44W
SEC. 33

S 36TH ST.

3011 | 3012 | 3013 | 3014

PI Sta 3012+10.00

POT Sta 3014+00.00

9TH AVE. (SR9TH)

END PAVING
STA 3011+80.00

0 FEET 20

9TH AVE.

END PAVING
Sta 3011+80.00
Elv 979.50

-0.600% +0.400%

VPI +30.000
Elv 979.30
K = 60
Len 60.00 ft

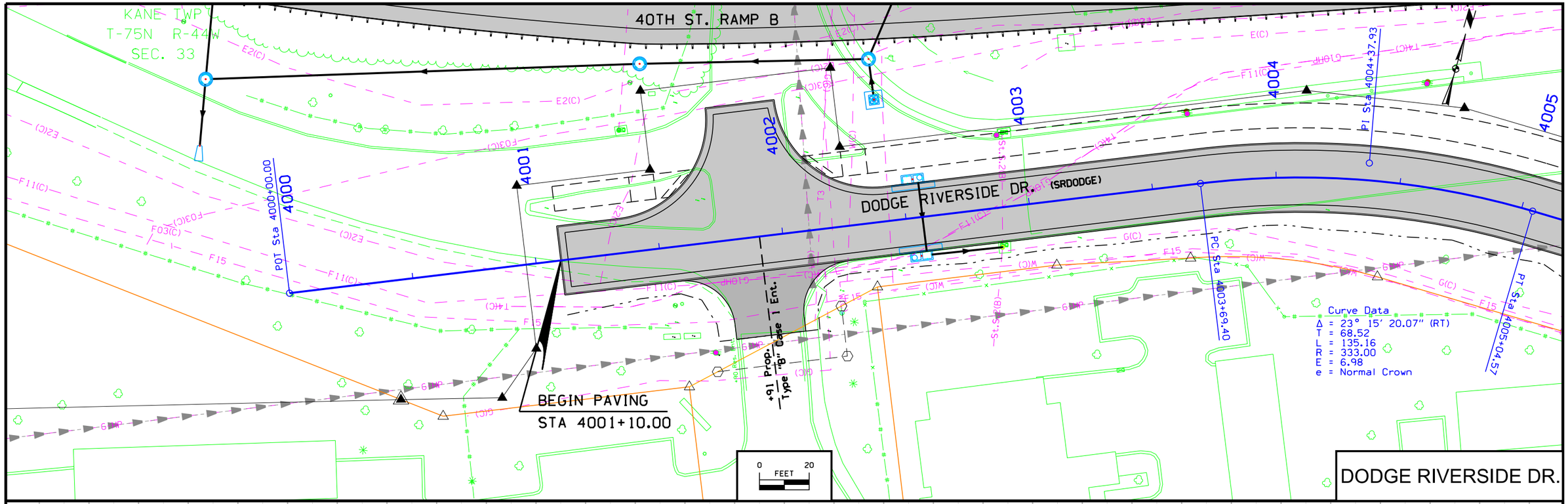
Lt No Ditch
Rt No Ditch

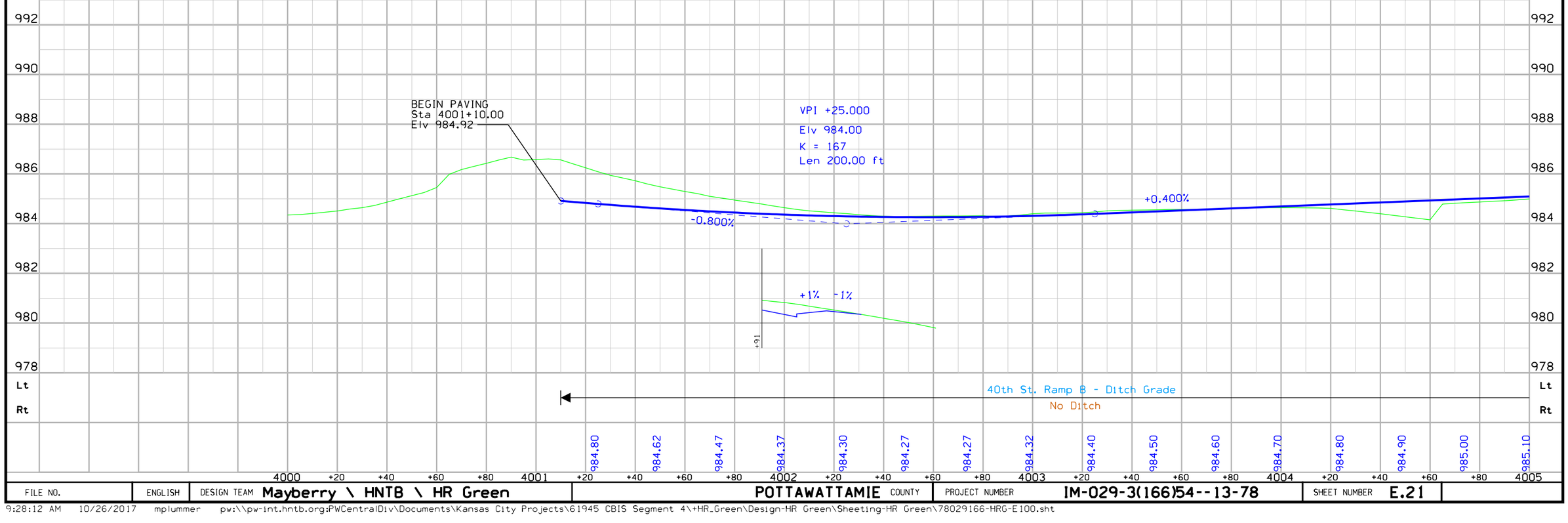
979.38 979.39 979.48

3011 +20 +40 +60 +80 3012 +20 +40 +60 +80 3013 +20 +40 +60 +80 3014

FILE NO.	ENGLISH	DESIGN TEAM Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER IM-029-3(166)54--13-78	SHEET NUMBER E.20

9:28:09 AM 10/26/2017 mplummer pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\+HR_Green\Design-HR Green\Sheeting-HR Green\78029166-HRG-E100.sht





FILE NO.	ENGLISH	DESIGN TEAM Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER IM-029-3(166)54--13-78	SHEET NUMBER E.21

9:28:12 AM 10/26/2017 mplummer pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\+HR_Green\Design-HR Green\Sheeting-HR Green\78029166-HRG-E100.sht

KANE TWP
T-75N R-44W
SEC. 33

40TH ST.

DODGE RIVERSIDE DR. (SRDODGE)

PC Sta 4005+53.09

PT Sta 4005+04.57

74°02'38"

PI Sta 4006+52.01

PDT Sta 4006+39.34
= PI Sta 7000+00.00

PT Sta 4007+45.40

PC Sta 4007+95.94

PI Sta 4009+36.47

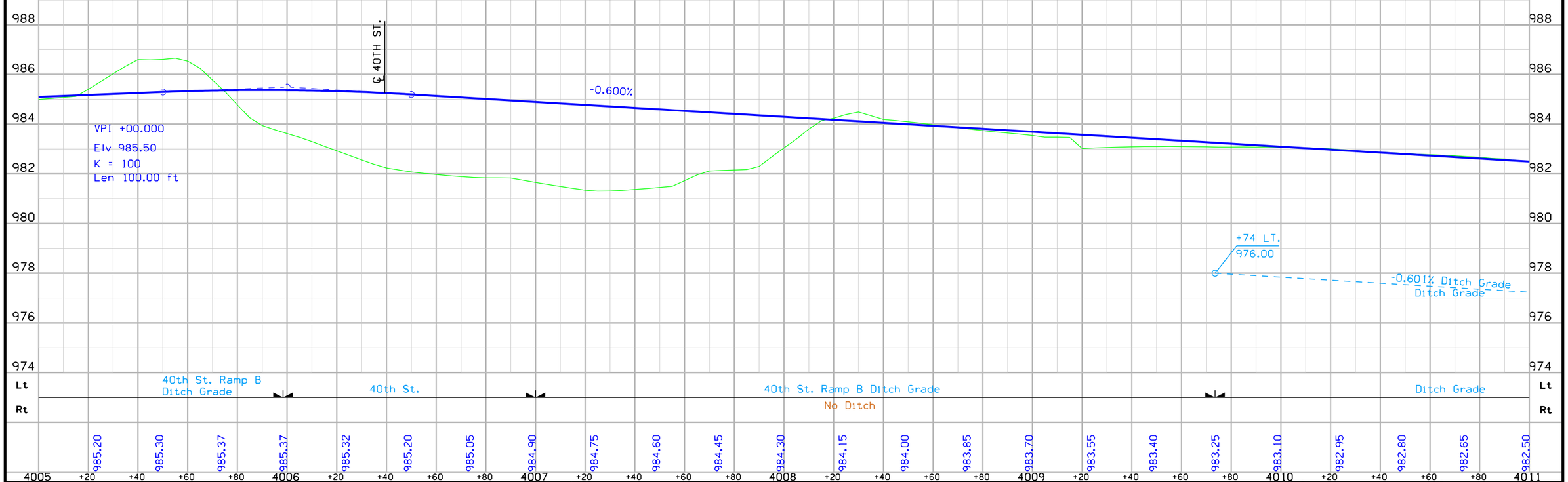
PCC Sta 4010+61.98

Curve Data
Δ = 33° 05' 22.35" (LT)
T = 98.92
L = 192.31
R = 333.00
E = 14.38
e = Normal Crown

Curve Data
Δ = 45° 45' 40.45" (RT)
T = 140.53
L = 265.96
R = 333.00
E = 28.44
e = Normal Crown

0 FEET 20

DODGE RIVERSIDE DR.



FILE NO.	ENGLISH	DESIGN TEAM Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER IM-029-3(166)54--13-78	SHEET NUMBER E.22

9:28:14 AM 10/26/2017 mplummer pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\+HR_Green\Design-HR Green\Sheeting-HR Green\78029166-HRG-E100.sht

KANE TWP
T-75N R-44W
SEC. 33

Curve Data
Δ = 9° 32' 27.67" (RT)
T = 158.56
L = 316.39
R = 1,900.00
E = 6.60
e = Normal Crown

PI Sta 4012+20.46

DODGE RIVERSIDE DR. (SRDODGE)

POC Sta 4014+93.19
= PI Sta 4101+14.00

PCC Sta 4013+78.29

PI Sta 4015+12.40

Curve Data
Δ = 43° 52' 13.04" (RT)
T = 134.10
L = 254.97
R = 333.00
E = 25.99
e = Normal Crown

73°41'49"

S 38TH ST.

PRC Sta 4016+33.27

4011 4012 4013 4014 4015 4016 4017

0 FEET 20

DODGE RIVERSIDE DR.

VPI +75.000
Elv 980.25
K = 167
Len 150.00 ft

-0.600%

-1.500%

℄ S 38TH ST.

+23 Lt.
973.30

-0.601% Ditch Grade

-1.304% Ditch Grade

+38 Lt.
971.80

Ditch Grade

No Ditch

38th St.

SB Frontage Rd. - Ditch Grade

No Ditch

4011	982.35	982.20	982.05	981.90	981.75	981.60	981.45	981.30	981.15	981.00	980.85	980.70	980.53	980.32	980.08	979.80	979.48	979.12	978.75	978.37	978.00	977.62	977.25	976.94
+00	+20	+40	+60	+80	4012	+20	+40	+60	+80	4013	+20	+40	+60	+80	4014	+20	+40	+60	+80	4015	+20	+40	+60	+80	4017

FILE NO.	ENGLISH	DESIGN TEAM Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER IM-029-3(166)54--13-78	SHEET NUMBER E.23

9:28:17 AM 10/26/2017 mplummer pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\+HR_Green\Design-HR Green\Sheeting-HR Green\78029166-HRG-E100.sht

KANE TWP
T-75N R-44W
SEC. 33

Curve Data
Δ = 65° 15' 12.04" (LT)
T = 213.18
L = 379.25
R = 333.00
E = 62.39
e = Normal Crown

POC Sta 4018+55.24
= PI Sta 4201+61.84

PI Sta 4020+47.51
= POT Sta 9022+58.98
= PI Sta 5000+00.00

POT Sta 4020+47.51

PT Sta 4020+12.51

66°51'59"

90°00'00"

DODGE RIVERSIDE DR. (SRDODGE)

W 2ND AVE

2ND AVE.

I-29

I-480 RAMP C

SB FRONTAGE RD.

END PAVING
STA 4020+47.51

+17 Prop. Type "C" Case 2 Entr.

+41 Prop. Type "C" Case 2 Entr.

0 FEET 20

DODGE RIVERSIDE DR.

℄ W 2ND AVE.

℄ SB FRONTAGE

END PAVING
Sta 4020+47.51
Elv 978.75

-1.500%

+0.700%

-2%

-1.9%

VPI +25.000
Elv 976.50
K = 45
Len 100.00 ft

SB Frontage Rd. - Ditch Grade

No Ditch

No Ditch

976.77 976.74 976.85 977.02 977.20 977.37 977.55 977.72 977.90 978.07 978.25 978.42 978.60

4017 +20 +40 +60 +80 4018 +20 +40 +60 +80 4019 +20 +40 +60 +80 4020 +20 +40

FILE NO.	ENGLISH	DESIGN TEAM Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER IM-029-3(166)54--13-78	SHEET NUMBER E.24

9:28:19 AM 10/26/2017 mplummer pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\+HR_Green\Design-HR Green\Sheeting-HR Green\78029166-HRG-E100.sht

KANE TWP
T-75N R-44W
SEC. 33

END PAVING
STA 5001+00.00

5000 5001 5002 5003 5004 5005

PI Sta 5000+00.00
= POT Sta 9022+57.35
= PI Sta 4020+47.51

POT Sta 5000+00.00

DODGE RIVERSIDE DR.

66°51'59"

2ND AVE. (SR2ND)

POT Sta 5002+44.28
POT Sta 539+80.01

76°53'59"

POT Sta 5004+46.59
= POT Sta 8022+39.81

79°05'30"

NB FRONTAGE RD.

SB FRONTAGE RD.

I-480 RAMP C

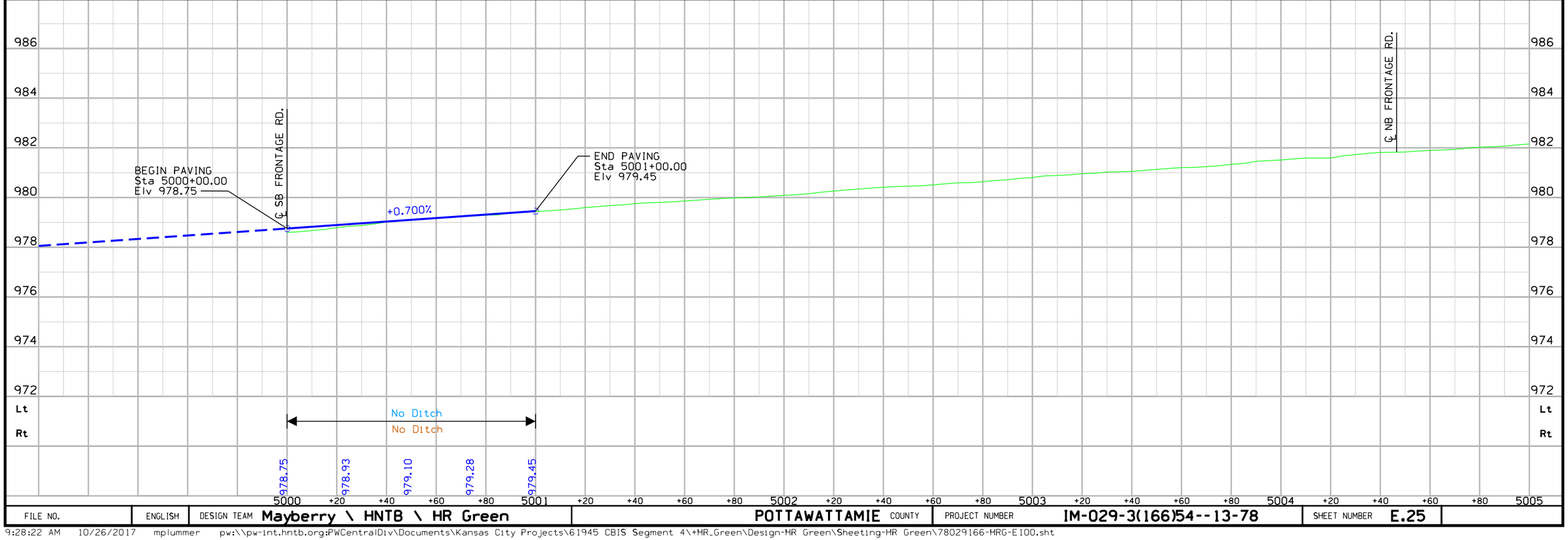
I-29

I-480 RAMP H

BEGIN PAVING
STA 5000+00.00

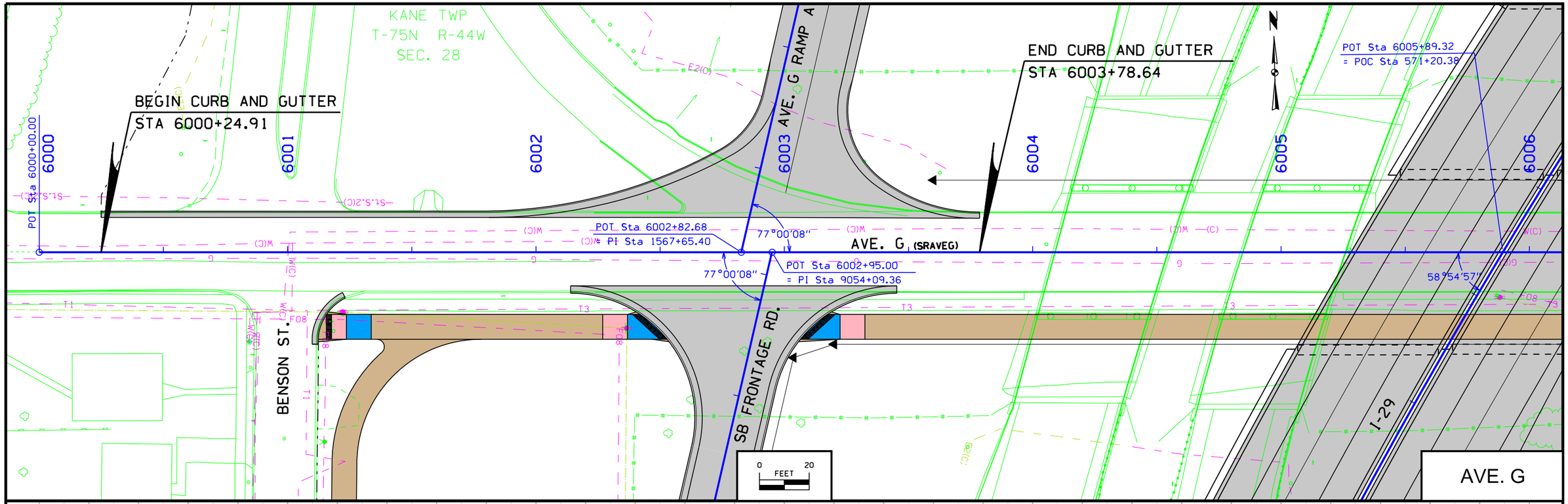
0 FEET 20

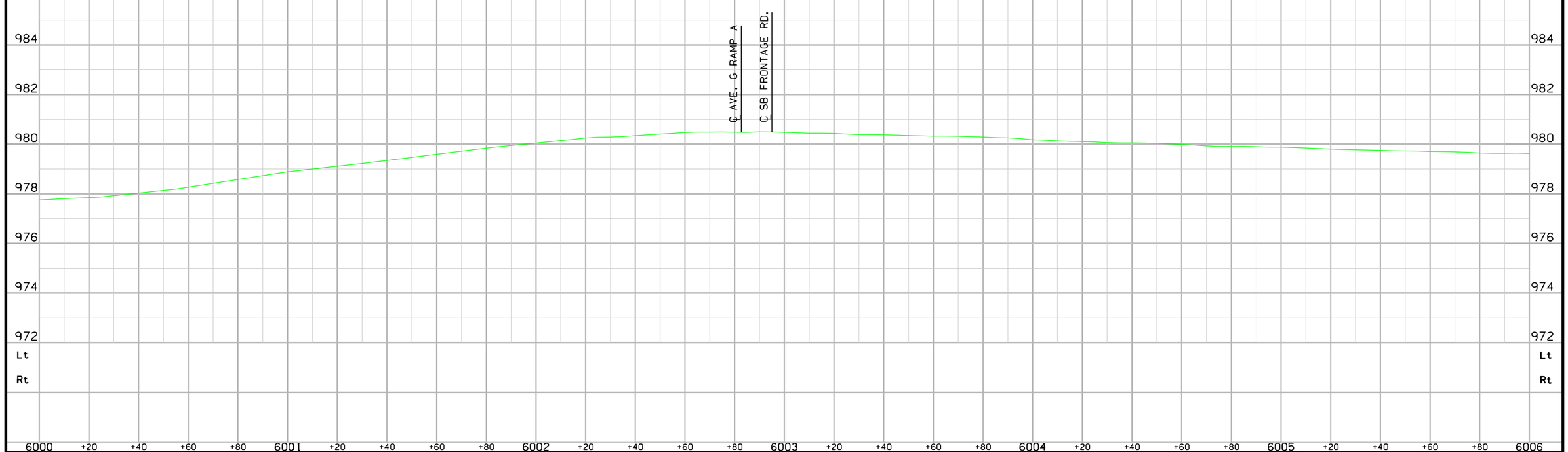
2ND AVE.



FILE NO.	ENGLISH	DESIGN TEAM Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER IM-029-3(166)54--13-78	SHEET NUMBER E.25

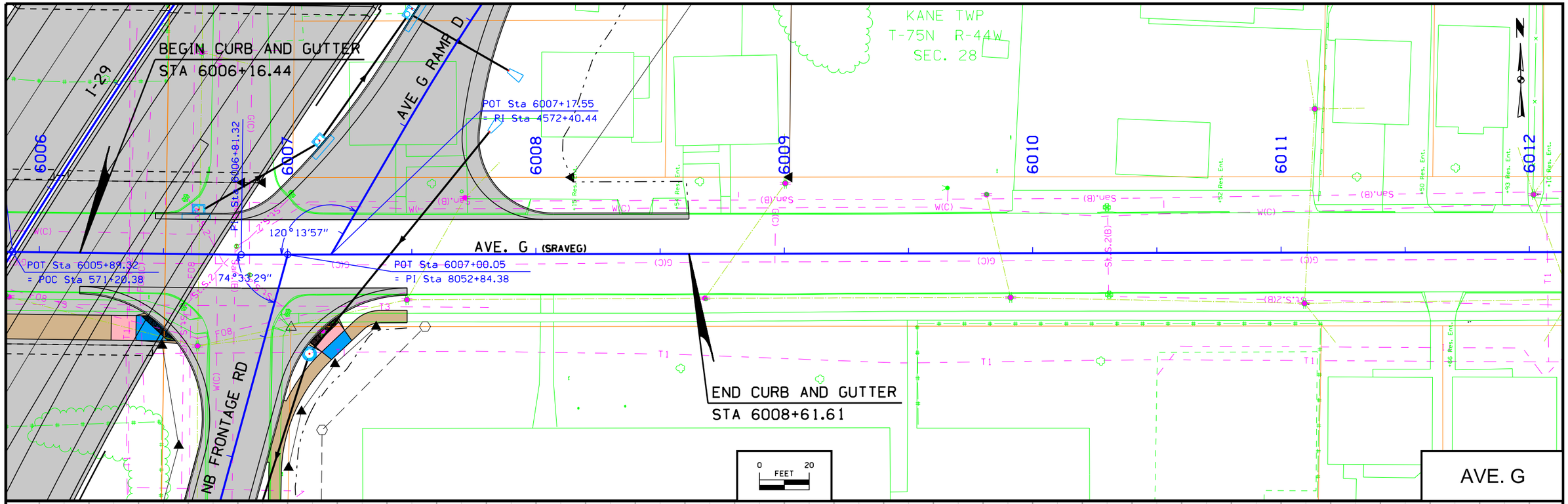
9:28:22 AM 10/26/2017 mplummer pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\+HR_Green\Design-HR Green\Sheeting-HR Green\78029166-HRG-E100.sht

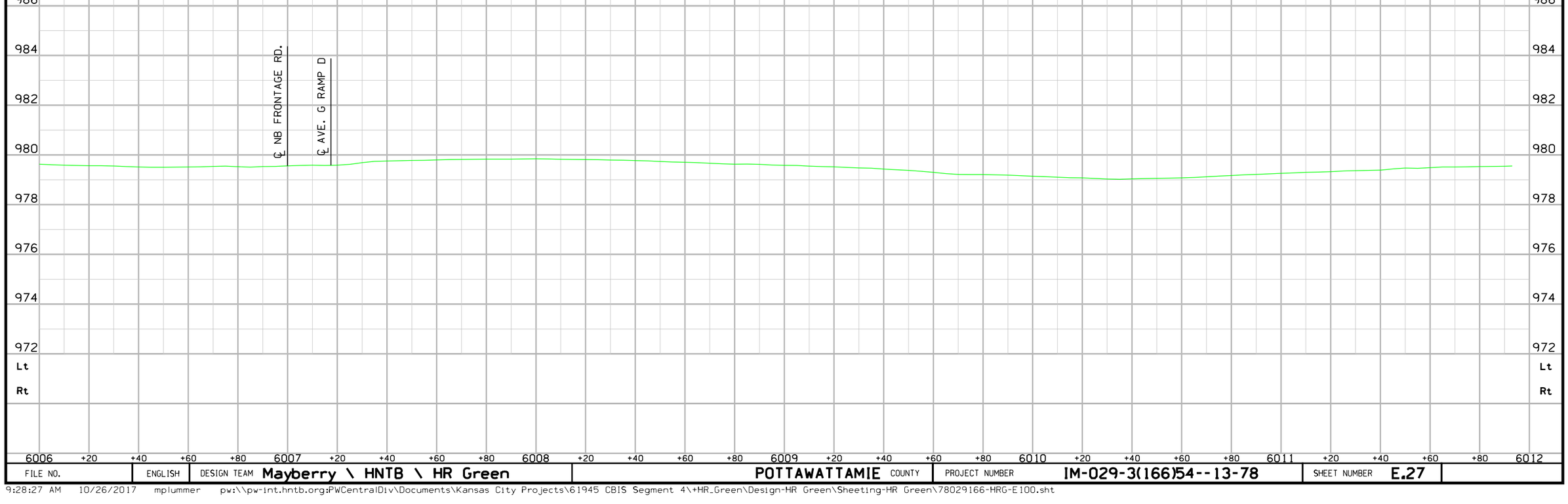




FILE NO.	ENGLISH	DESIGN TEAM Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER IM-029-3(166)54--13-78	SHEET NUMBER E.26

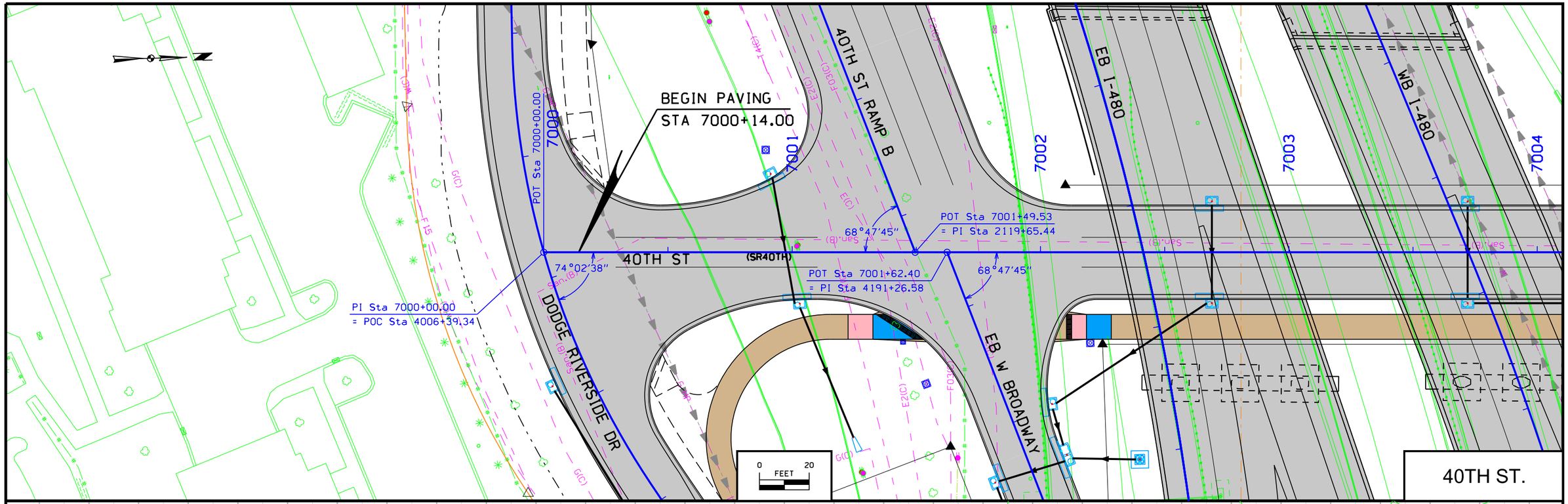
9:28:25 AM 10/26/2017 mplummer pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\+HR_Green\Design-HR Green\Sheeting-HR Green\78029166-HRG-E100.sht

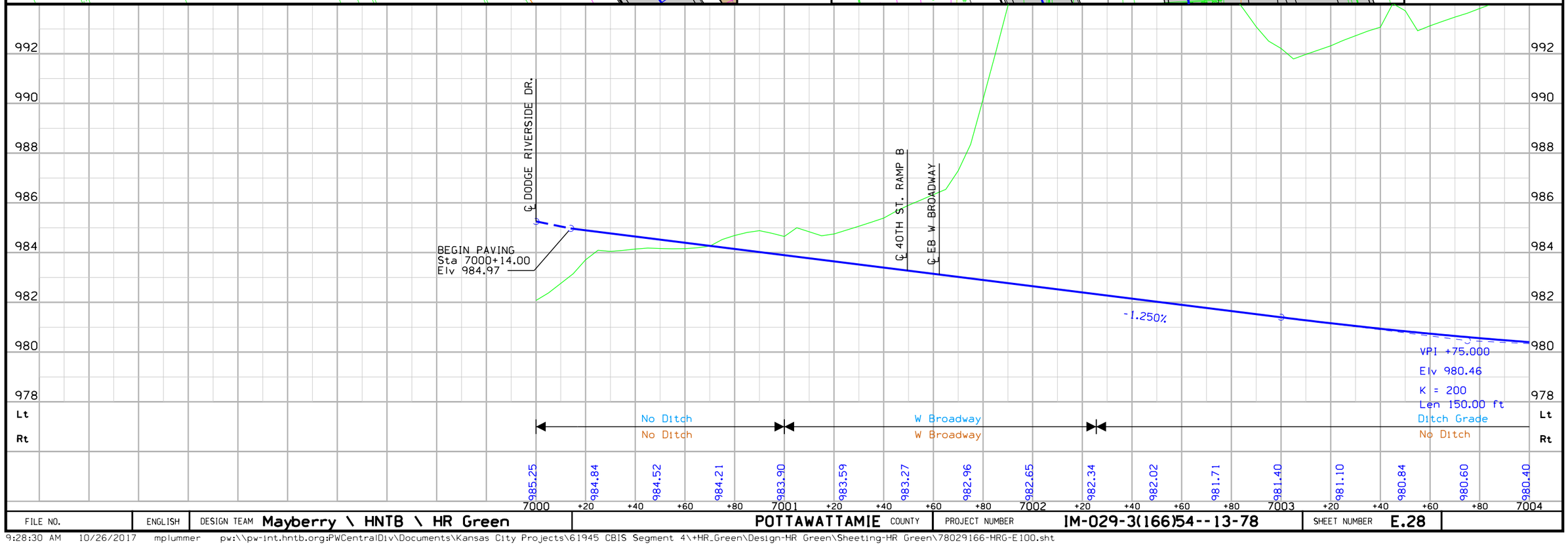




FILE NO.	ENGLISH	DESIGN TEAM Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER IM-029-3(166)54--13-78	SHEET NUMBER E.27

9:28:27 AM 10/26/2017 mplummer pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\+HR_Green\Design-HR Green\Sheeting-HR Green\78029166-HRG-E100.sht





FILE NO.	ENGLISH	DESIGN TEAM Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER IM-029-3(166)54--13-78	SHEET NUMBER E.28

9:28:30 AM 10/26/2017 mplummer pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\+HR_Green\Design-HR Green\Sheeting-HR Green\78029166-HRG-E100.sht

KANE TWP
T-75N R-44W
SEC. 28

40TH ST RAMP C

END PAVING
STA 7007+00.00

POT Sta 7009+30.67

40TH ST (SR40TH)

POT Sta 7005+60.16
= PI Sta 3120+97.45

77°20'12"

77°20'12"

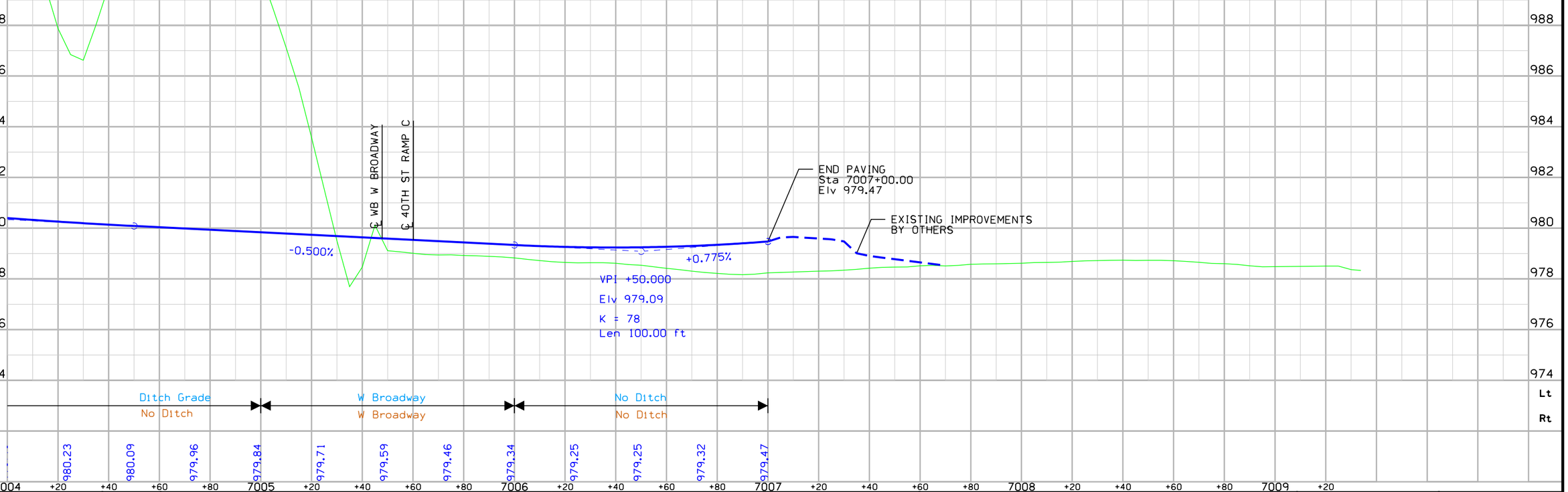
POT Sta 7005+47.86
= PI Sta 1191+56.16

WB W BROADWAY

WB I-480

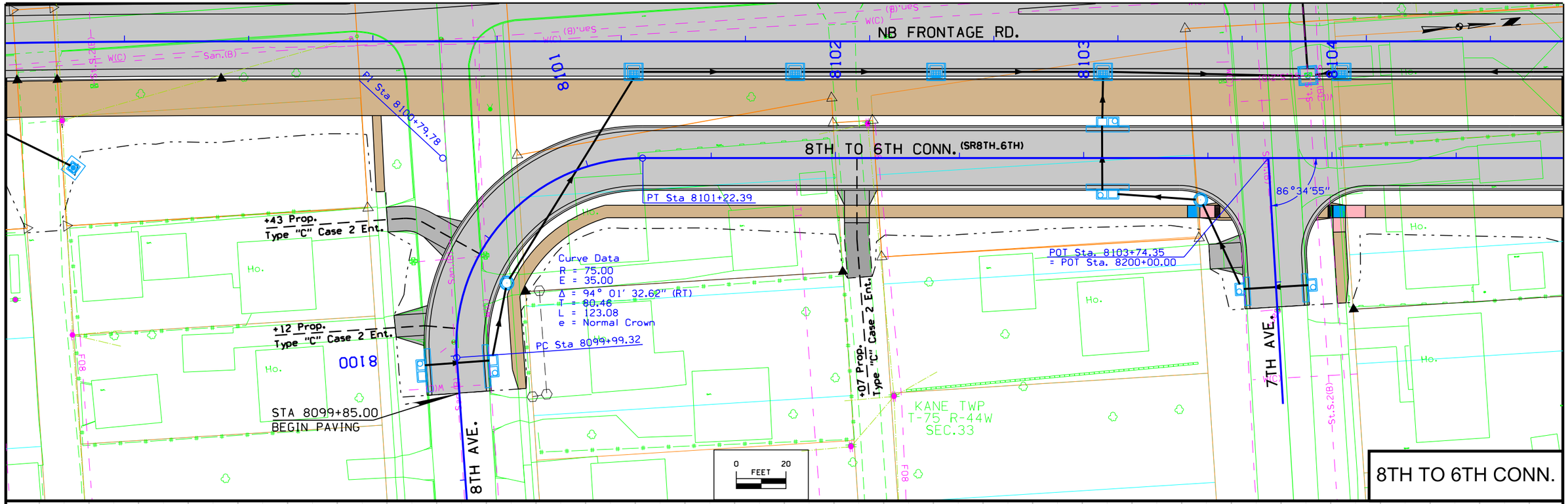
0 FEET 20

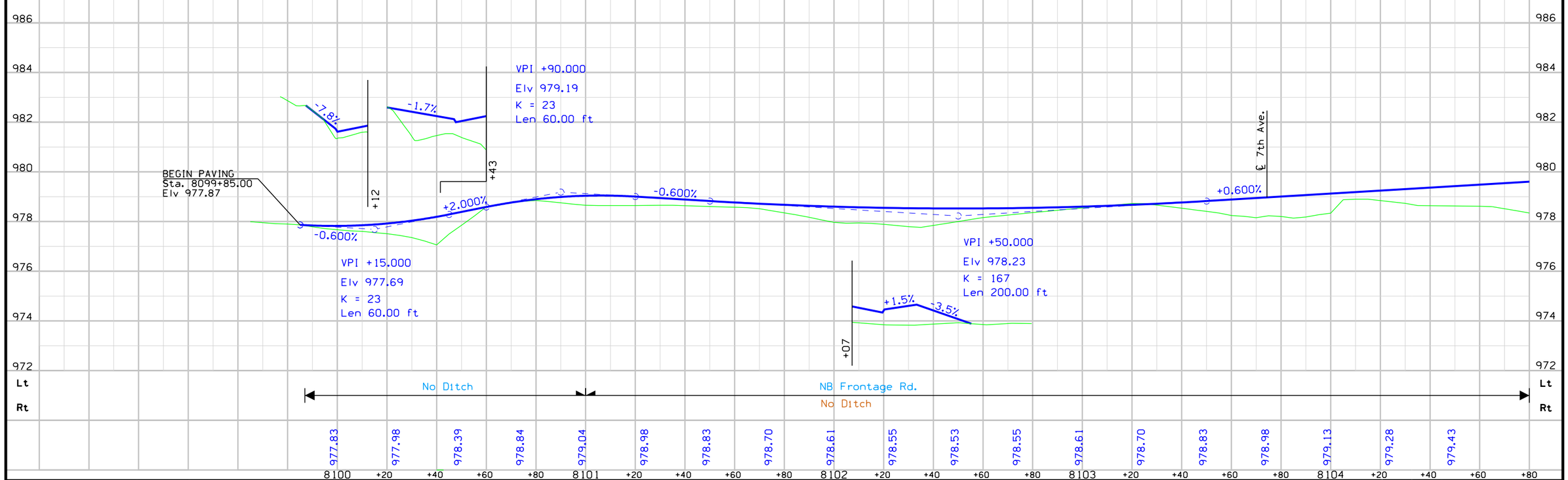
40TH ST.



FILE NO.	ENGLISH	DESIGN TEAM Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER IM-029-3(166)54--13-78	SHEET NUMBER E.29

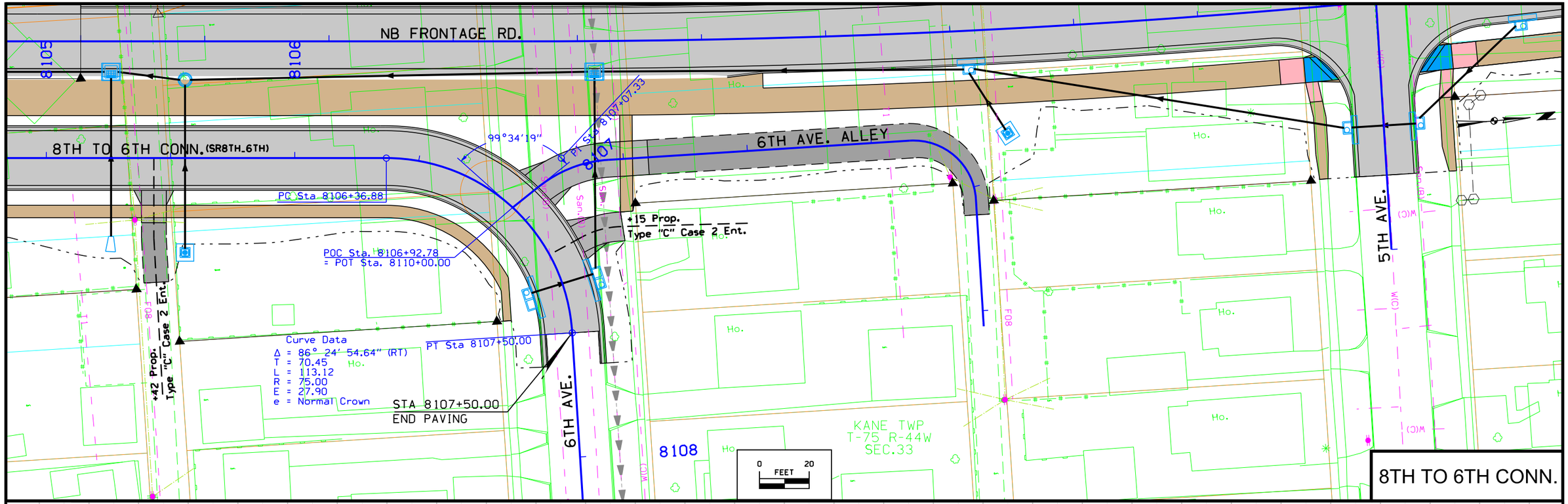
12:14:24 PM 10/26/2017 mplummer pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\+HR_Green\Design-HR Green\Sheeting-HR Green\78029166-HRG-E100.sht

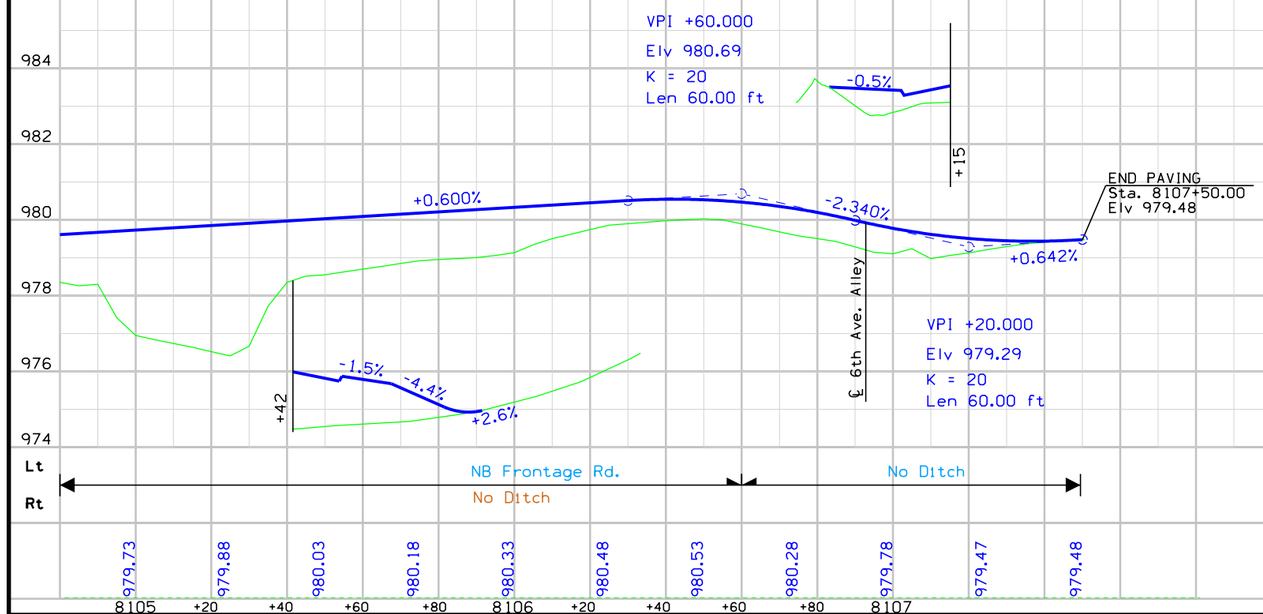




FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER	E.30

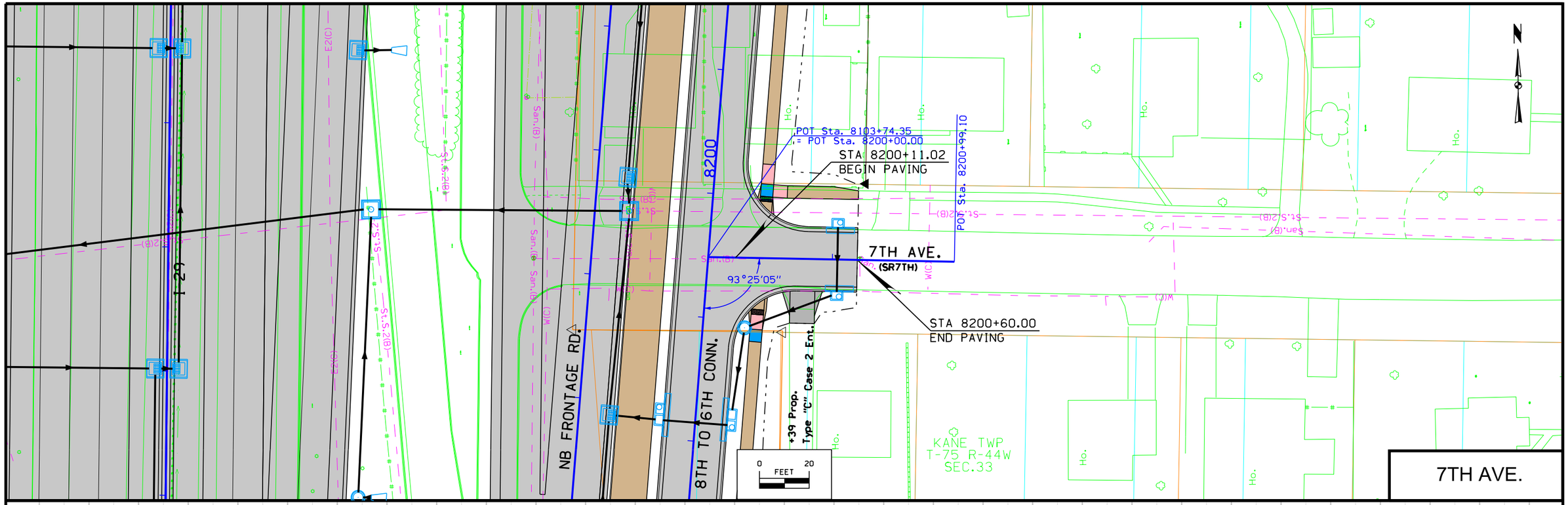
9:28:36 AM 10/26/2017 mplummer pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\78029166-E.sht

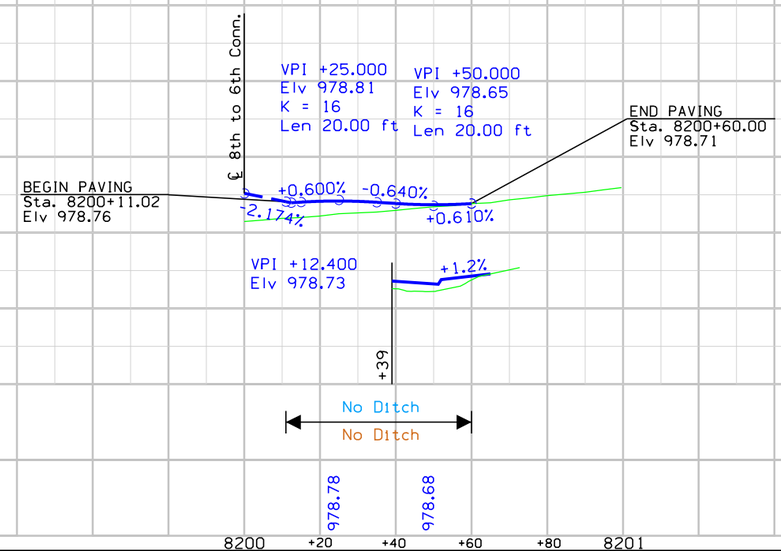




FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER E.31

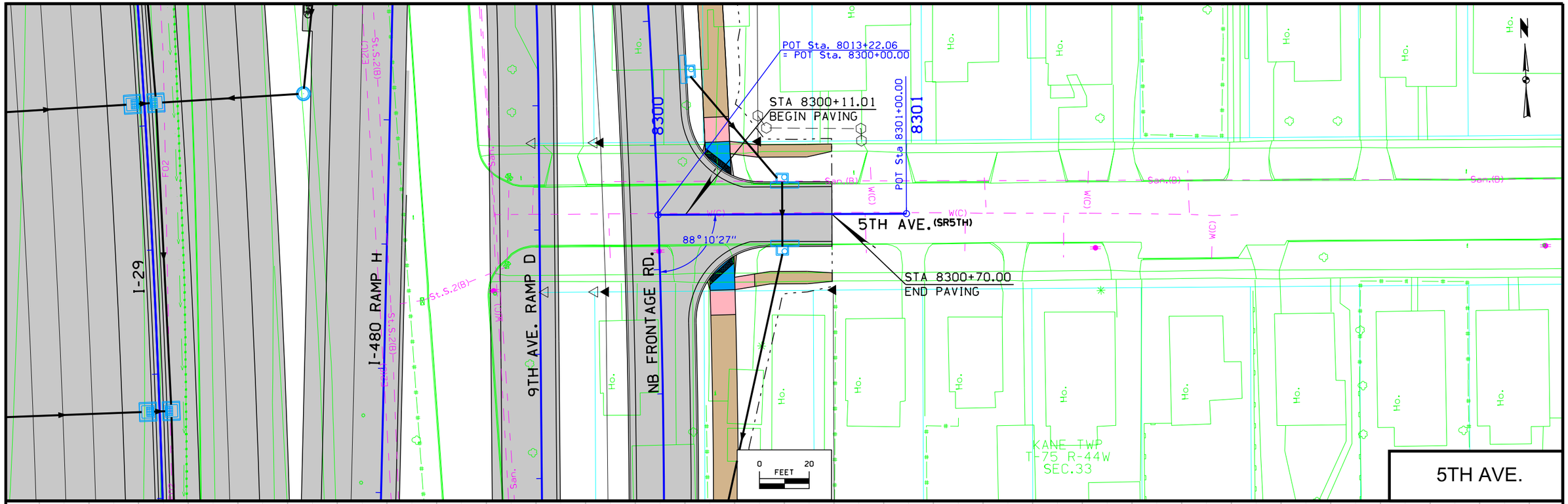
9:28:39 AM 10/26/2017 mplummer pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\78029166-E.sht

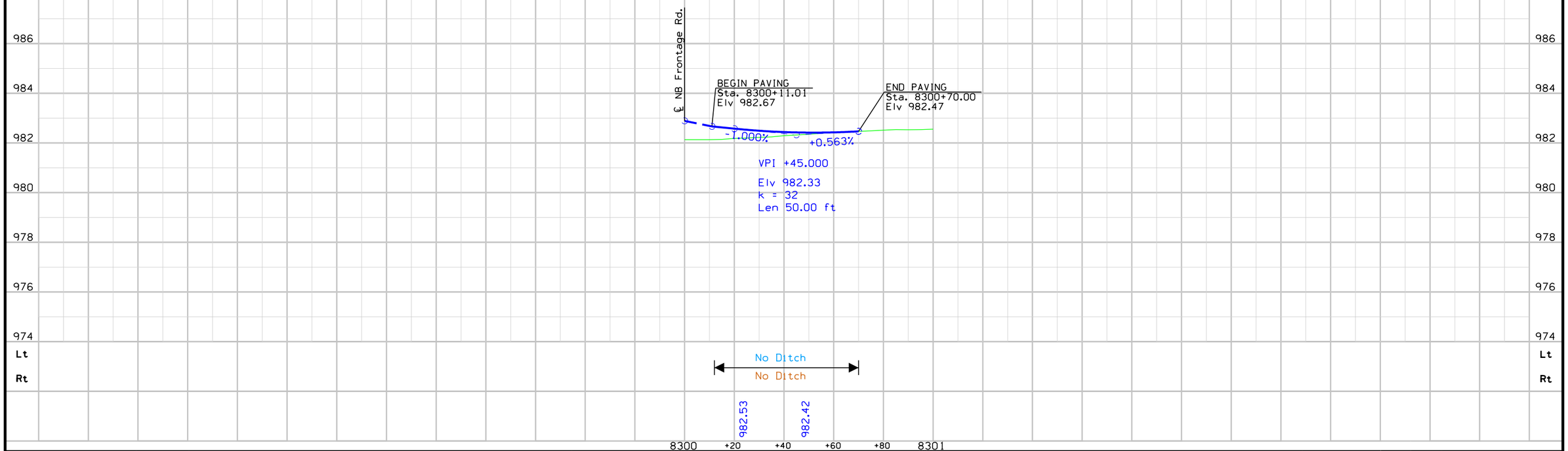




FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER E.32

9:28:41 AM 10/26/2017 mplummer pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\78029166-E.sht





FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER E.33

9:28:43 AM 10/26/2017 mplummer pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\78029166-E.sht

KANE TWP
T-79 R-44W
SEC.33

9100

POT Sta. 9015+82.78
= POT Sta. 9101+00.00

POT Sta 9100+00.00

STA 9100+88.88
END PAVING

W 4TH AVE. (SR4TH)

98°26'11"

STA 9100+49.00
BEGIN PAVING

1016

SB FRONTAGE RD.

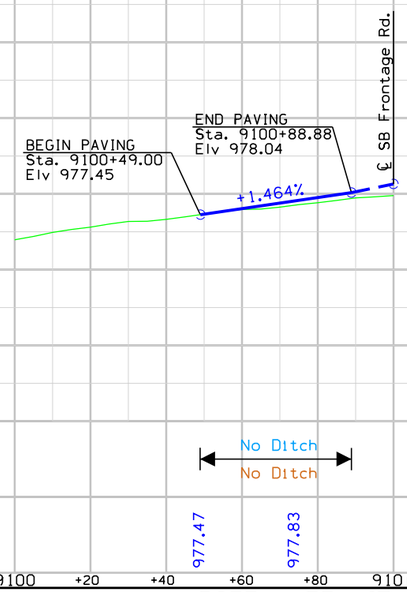
9TH AVE. RAMP A

I-480 RAMP C

I-29

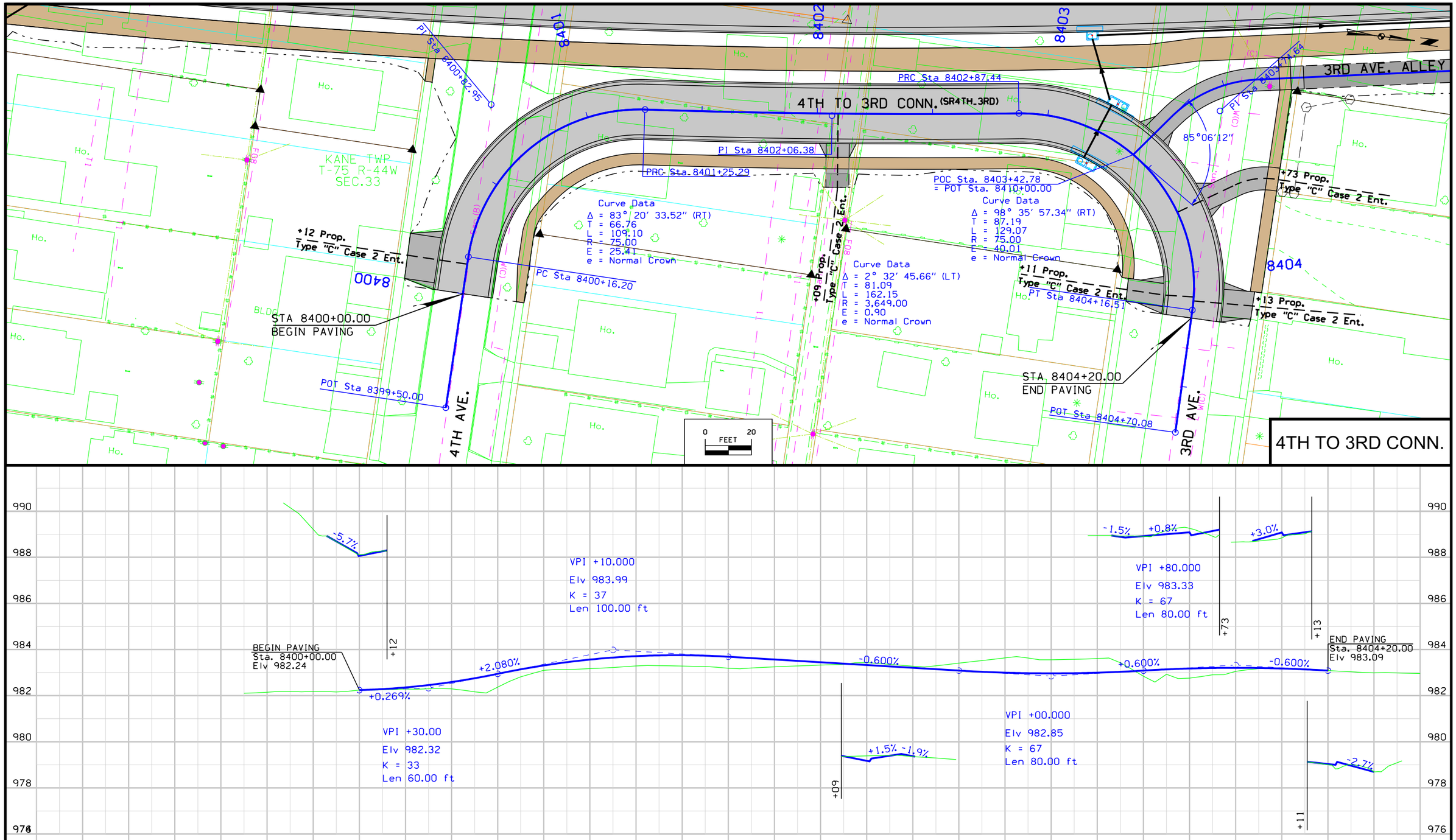
0 FEET 20

W 4TH AVE.



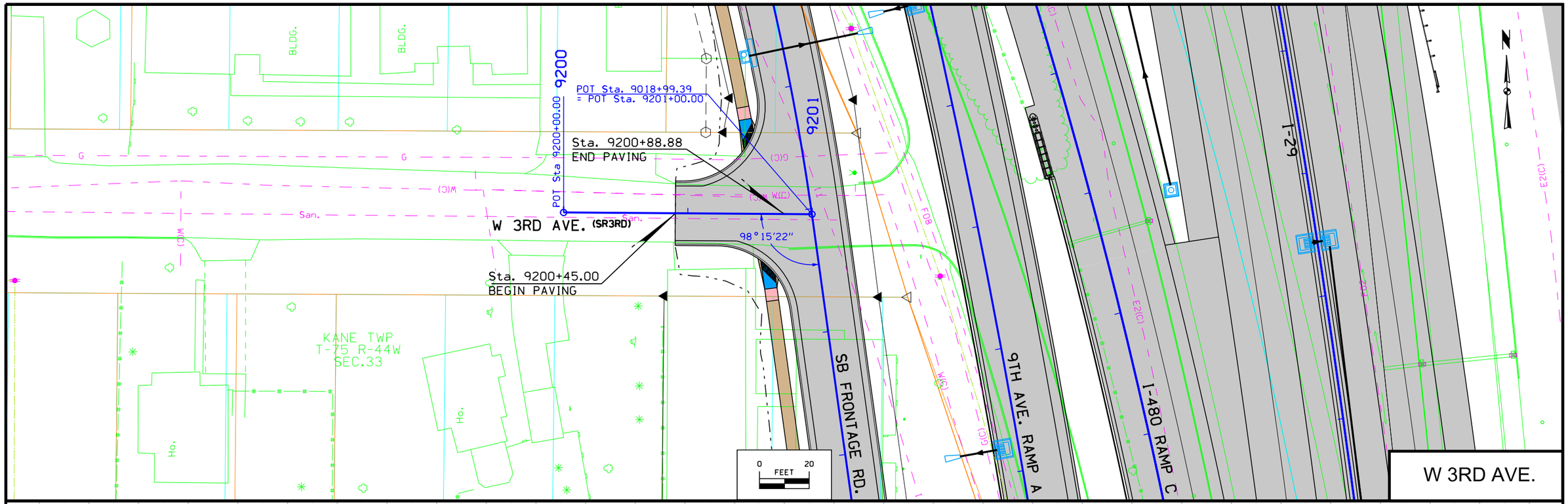
FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER E.34

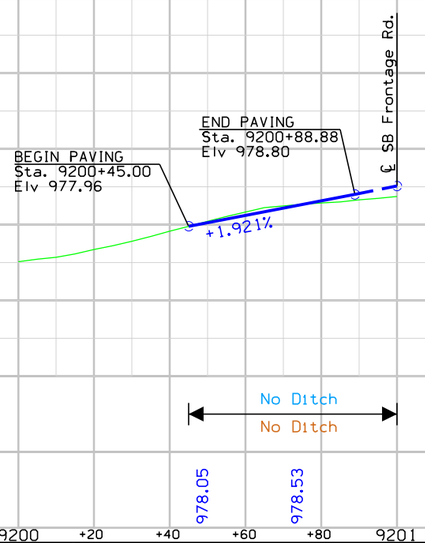
9:28:45 AM 10/26/2017 mplummer pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\78029166-E.sht



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER E.35

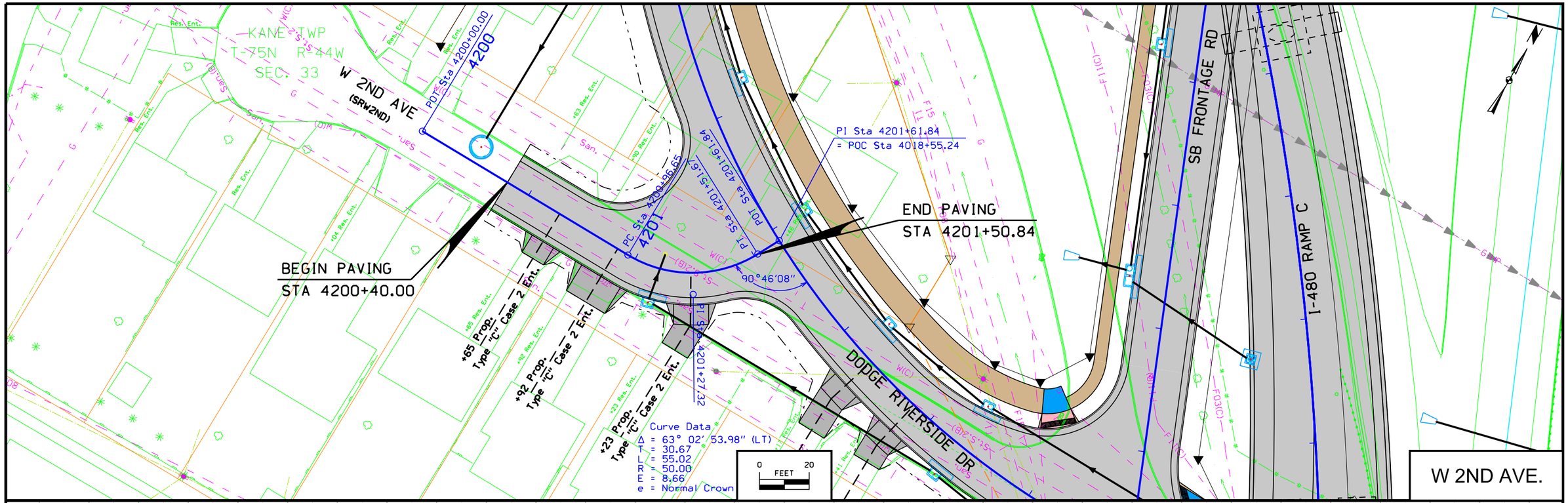
9:28:47 AM 10/26/2017 mplummer pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\78029166-E.sht

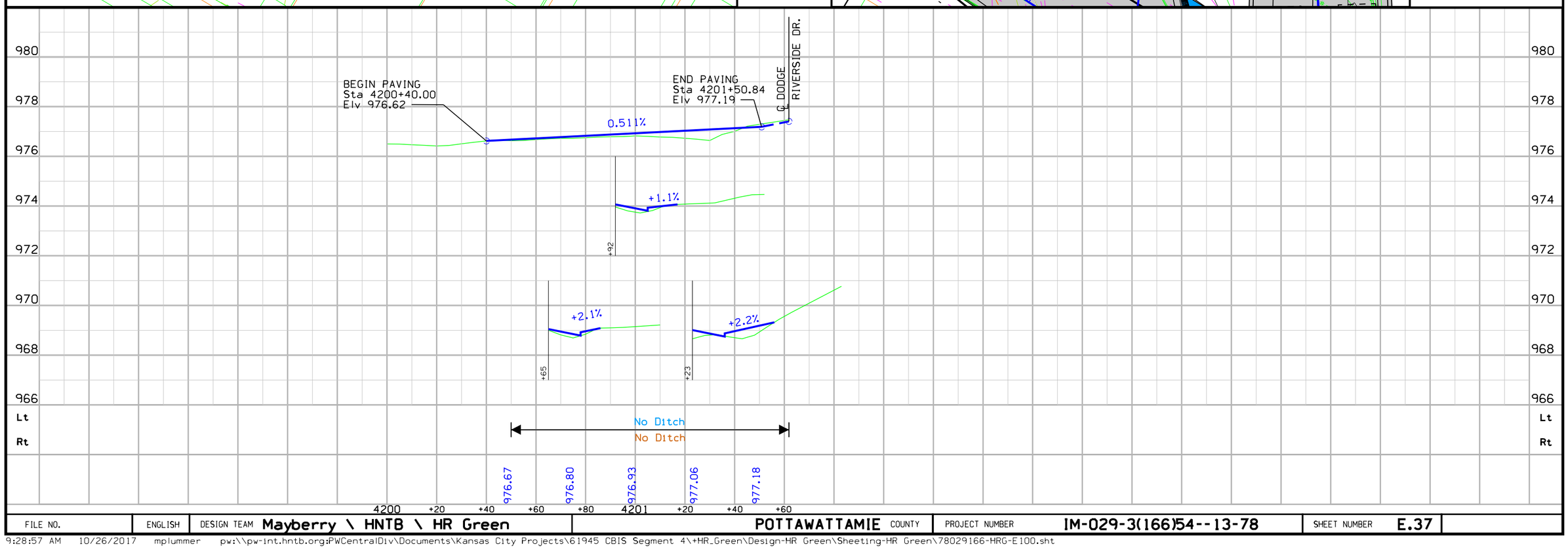




FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER E.36

9:28:49 AM 10/26/2017 mplummer pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\78029166-E.sht





FILE NO.	ENGLISH	DESIGN TEAM Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER IM-029-3(166)54--13-78	SHEET NUMBER E.37

9:28:57 AM 10/26/2017 mplummer pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\+HR_Green\Design-HR Green\Sheeting-HR Green\78029166-HRG-E100.sht

KANE TWP
T-75N R-44W
SEC. 33

END PAVING
STA 4101+02.52

4100

4101

POT Sta 4100+00.00

POT Sta 4101+14.00

PI Sta 4101+14.00 °
= POC Sta 4014+93.19

S 38TH ST
(SRS38TH)

73°41'49"

BEGIN PAVING
STA 4100+50.00

DODGE RIVERSIDE DR

I-480 RAMP C

0 FEET 20

S 38TH ST.

℄ DODGE RIVERSIDE DR.

BEGIN PAVING
Sta 4100+50.00
Elv 977.73

+3.685%

END PAVING
Sta 4100+99.39
Elv 979.55

No Ditch
No Ditch

977.73 978.65 979.56

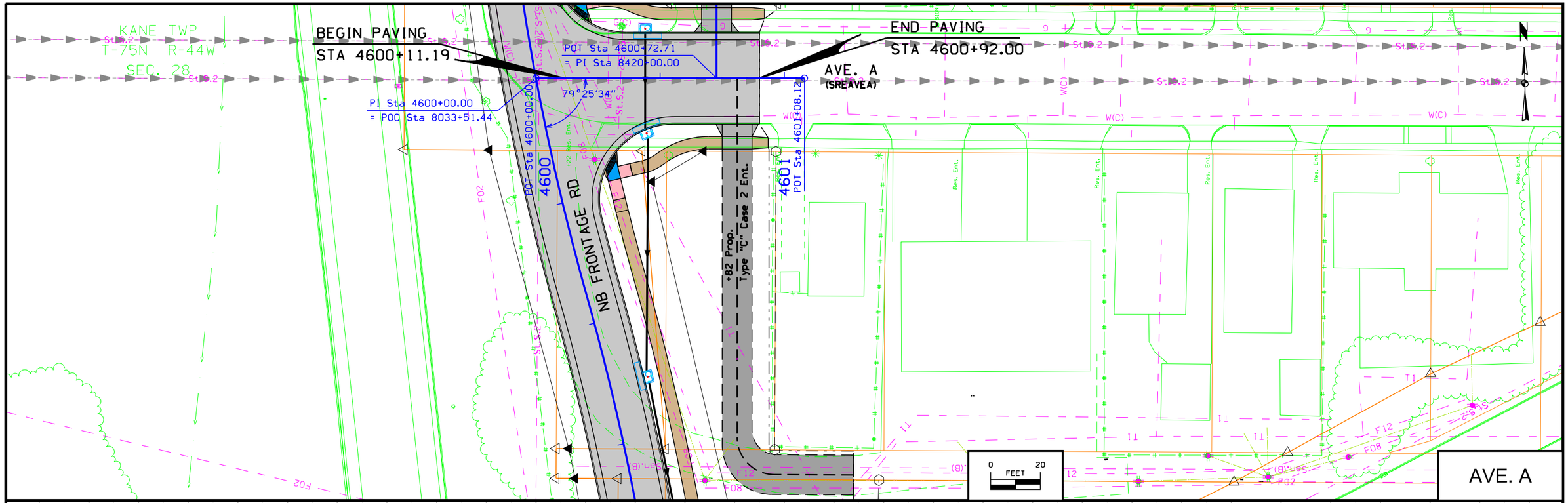
4100 +20 +40 +60 +80 4101 +20

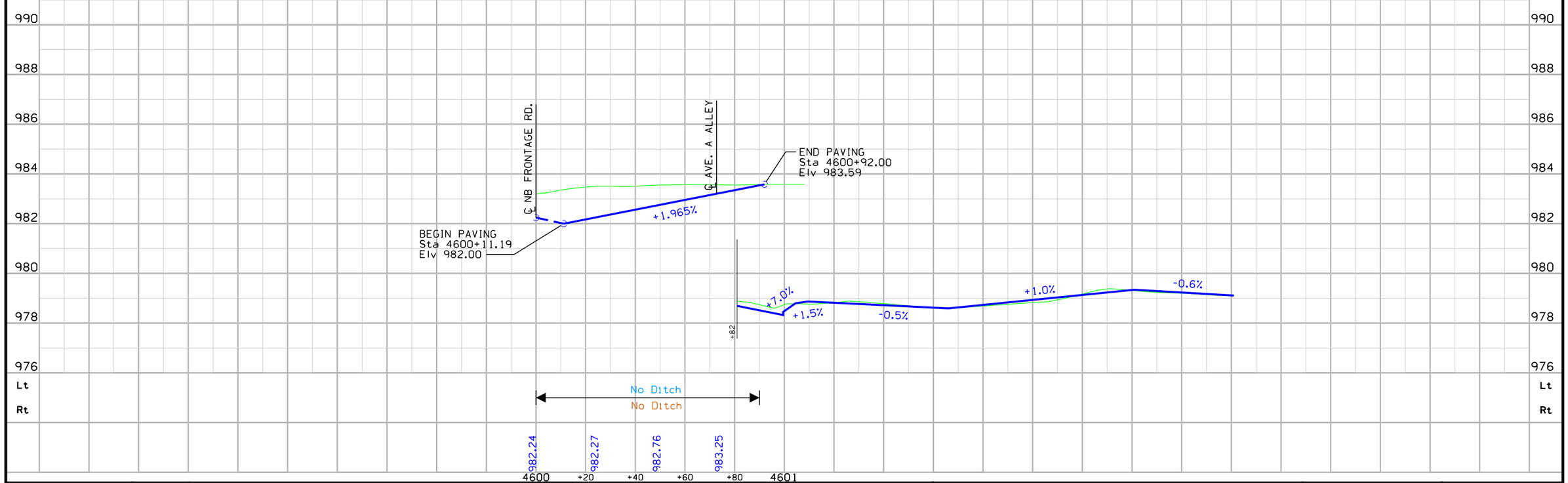
984 982 980 978 976 974 972 970

Lt
Rt

FILE NO.	ENGLISH	DESIGN TEAM Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER IM-029-3(166)54--13-78	SHEET NUMBER E.38

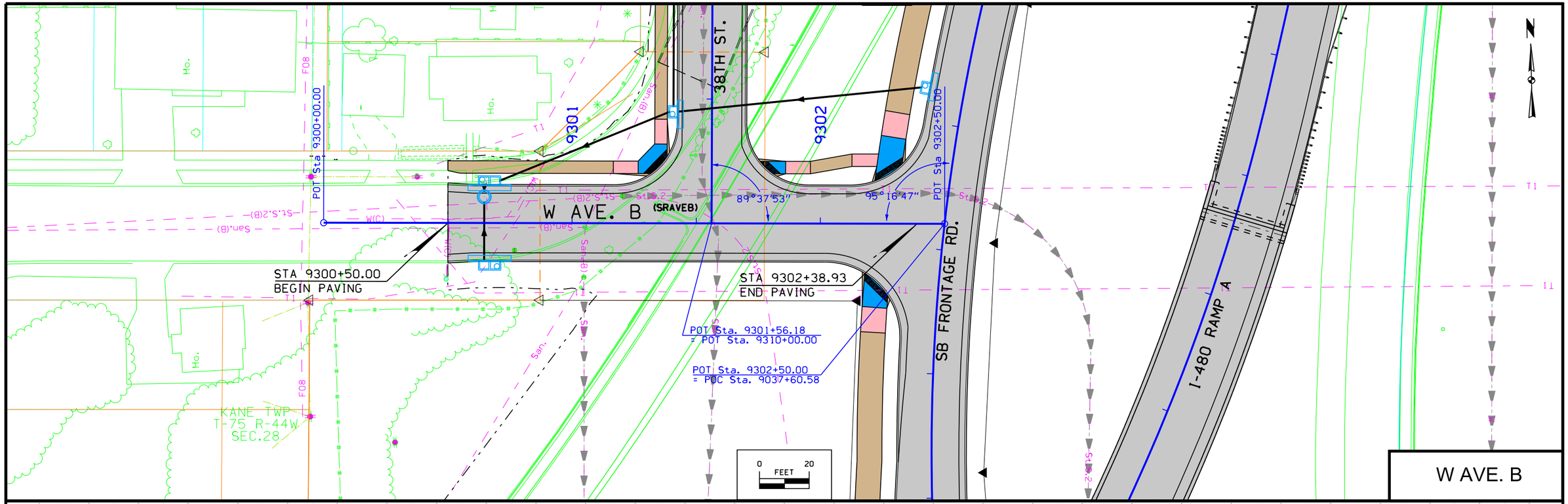
9:29:00 AM 10/26/2017 mplummer pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\+HR_Green\Design-HR Green\Sheeting-HR Green\78029166-HRG-E100.sht

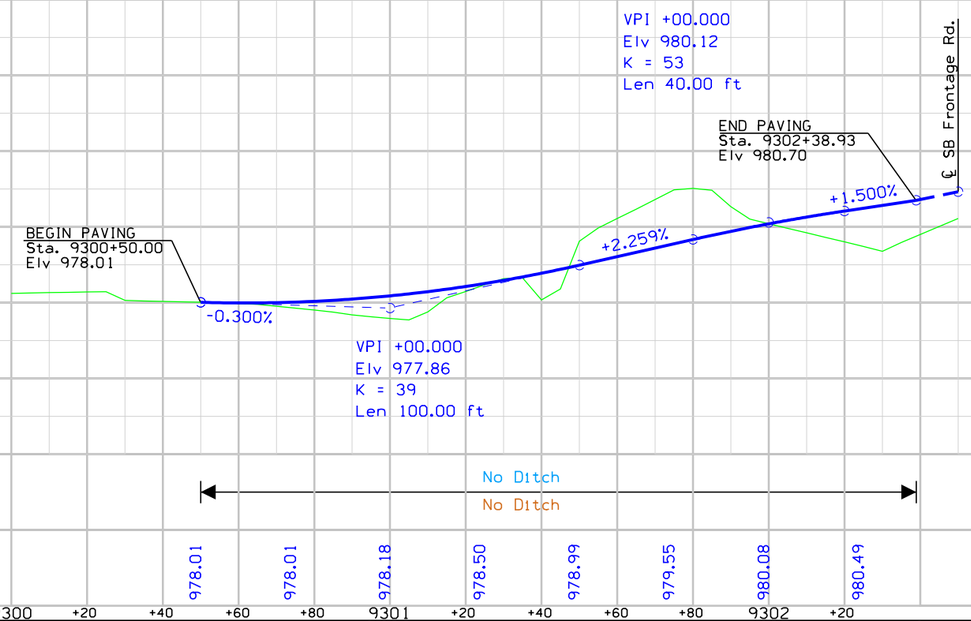




FILE NO.	ENGLISH	DESIGN TEAM Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER IM-029-3(166)54--13-78	SHEET NUMBER E.39

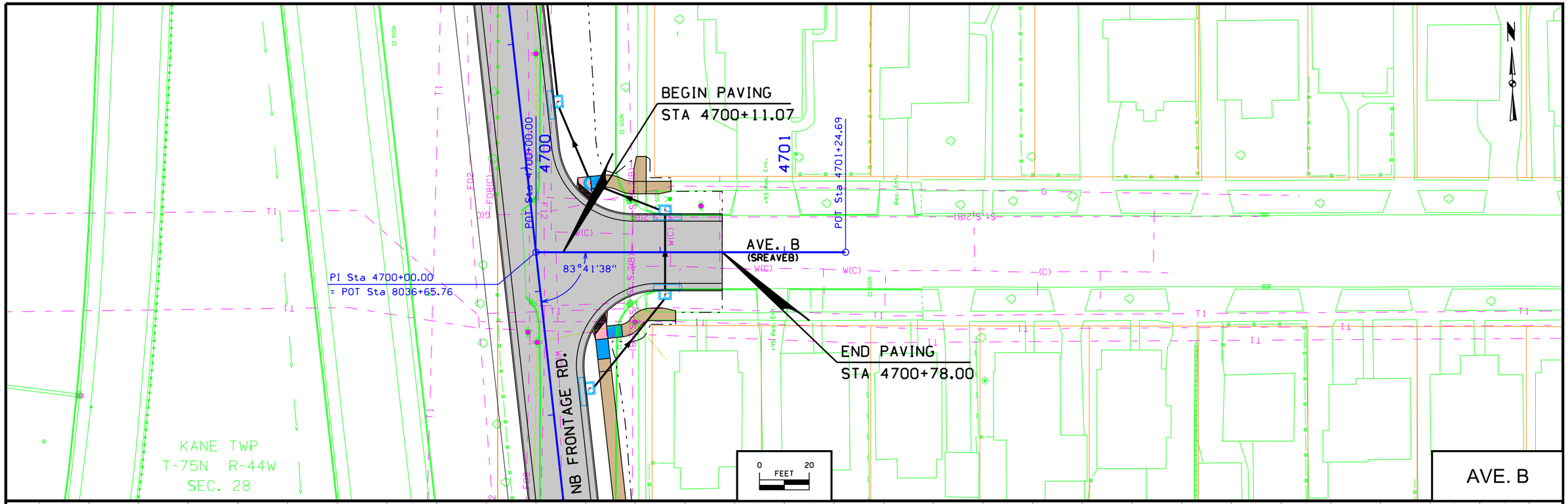
9:29:02 AM 10/26/2017 mplummer pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\+HR_Green\Design-HR Green\Sheeting-HR Green\78029166-HRG-E100.sht

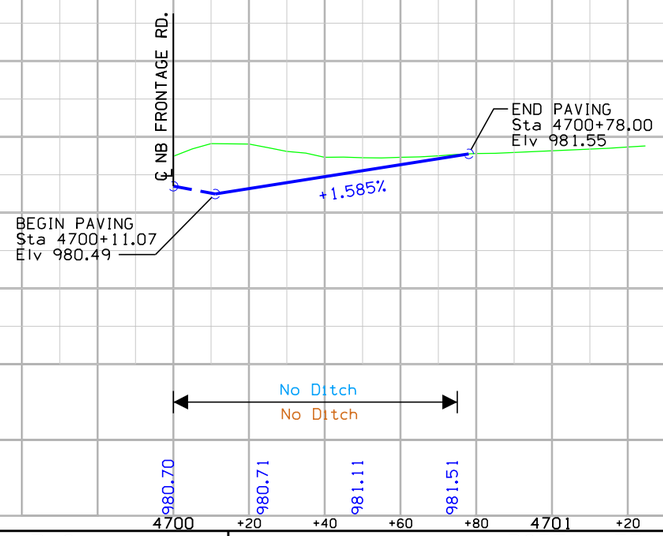




FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER E.40

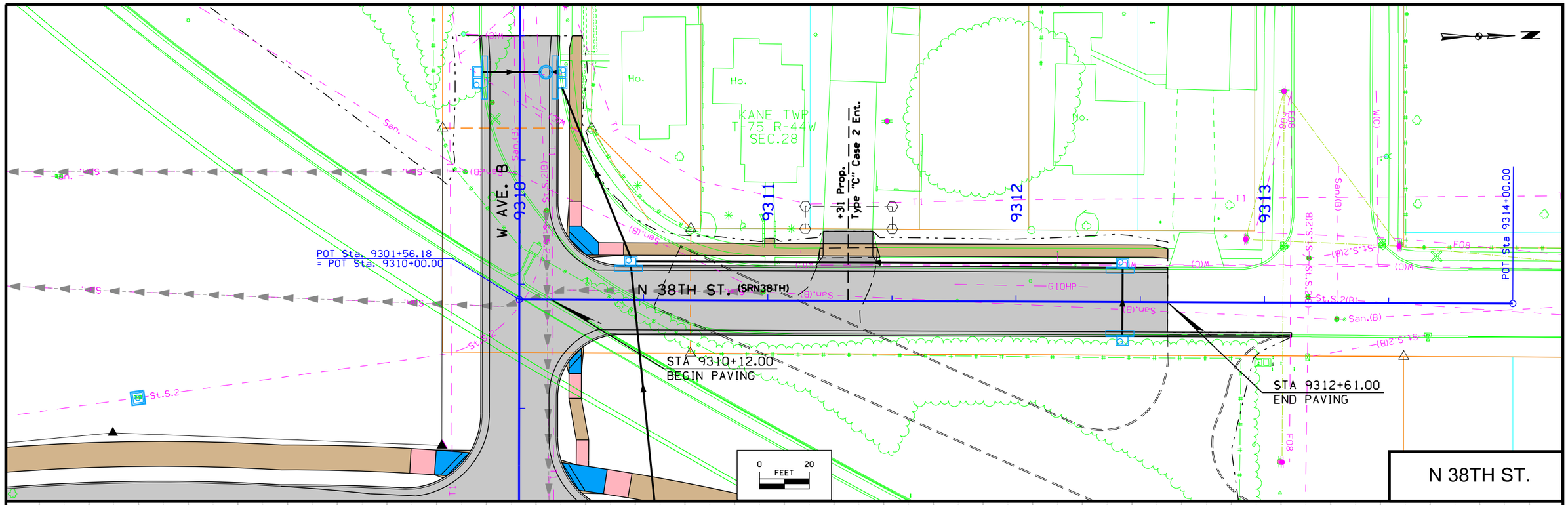
9:29:06 AM 10/26/2017 mplummer pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\78029166-E.sht

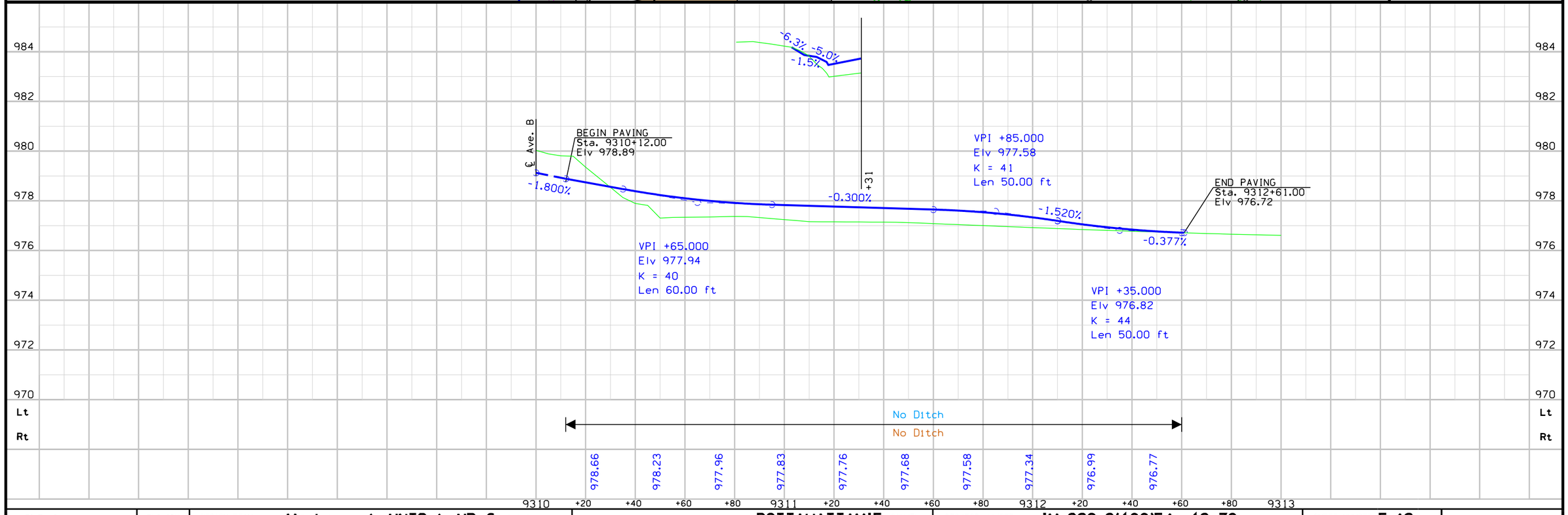




FILE NO.	ENGLISH	DESIGN TEAM Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER IM-029-3(166)54--13-78	SHEET NUMBER E.41

9:29:11 AM 10/26/2017 mplummer pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\+HR_Green\Design-HR Green\Sheeting-HR Green\78029166-HRG-E100.sht





FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER E.42

9:29:14 AM 10/26/2017 mplummer pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\78029166-E.sht

STA 9401+88.70
END PAVING

POT Sta. 9400+00.00

9400

9401

W AVE. D (SRAVED)

STA 9400+70.00
BEGIN PAVING

POT Sta. 9402+00.00
= POC Sta. 9044+32.14

77°04'30"

KANE TWP
T-75 R-44W
SEC.28

SB FRONTAGE RD.

I-29

0 FEET 20

W AVE. D

VPI +60.000
Elv 978.41

END PAVING
Sta. 9401+88.70
Elv 978.97

+1.960%

+2.163%

BEGIN PAVING
Sta. 9400+70.00
Elv 976.47

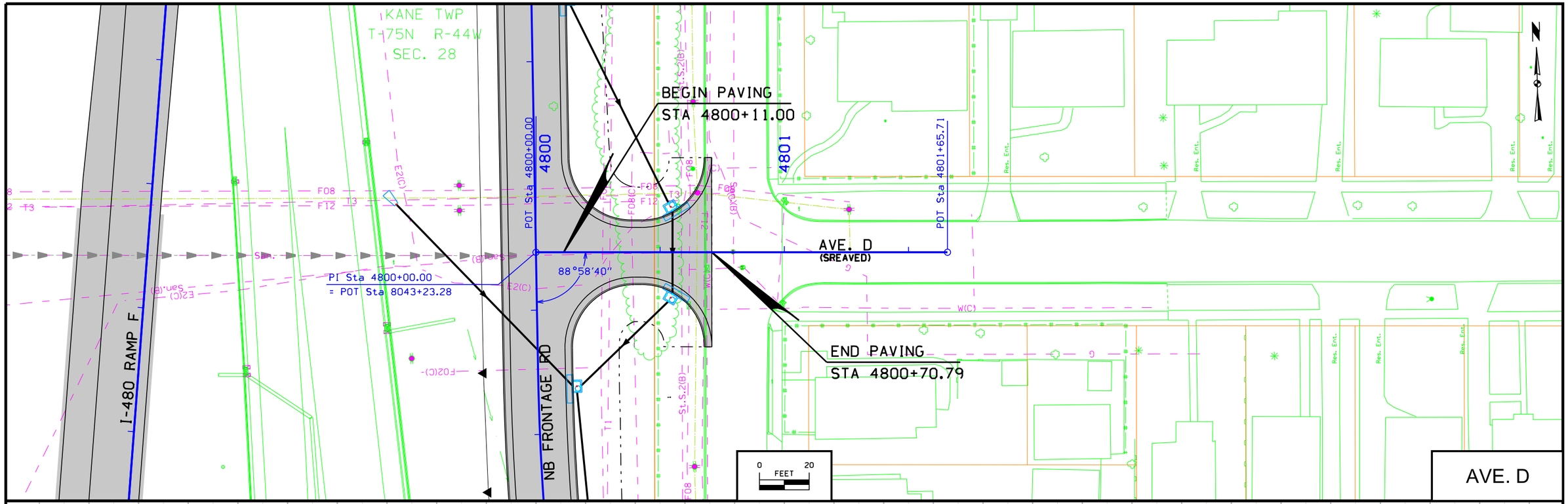
No Ditch
No Ditch

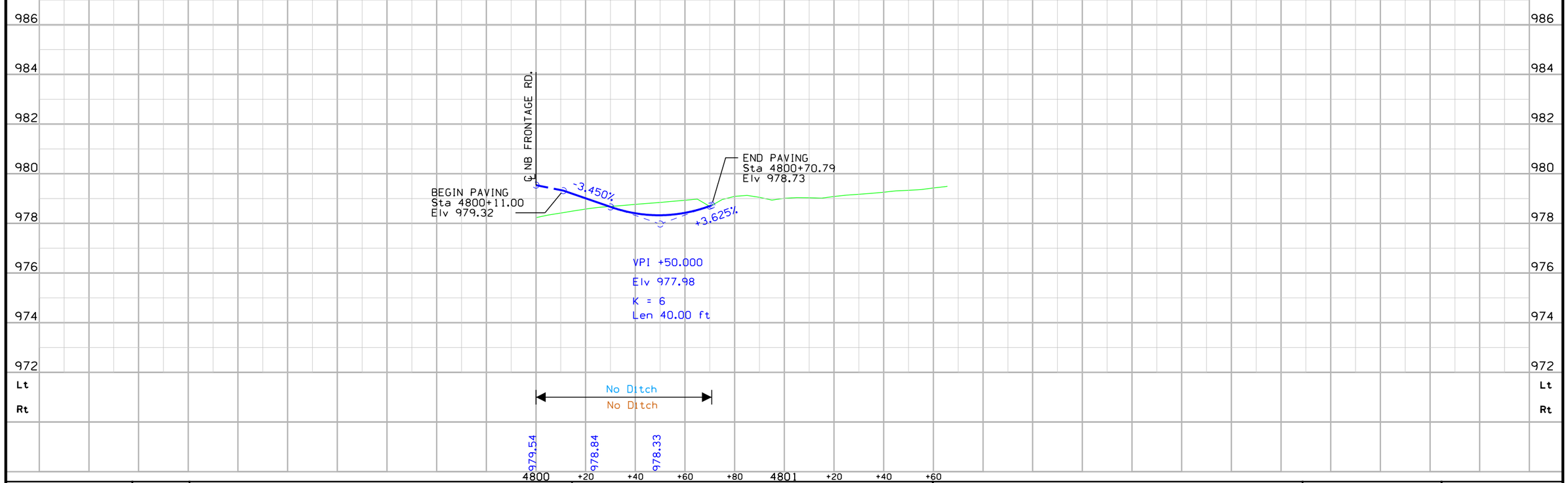
976.57 977.11 977.66 978.20 978.71

+60 +80 9401 +20 +40 +60 +80 9402

FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER E.43

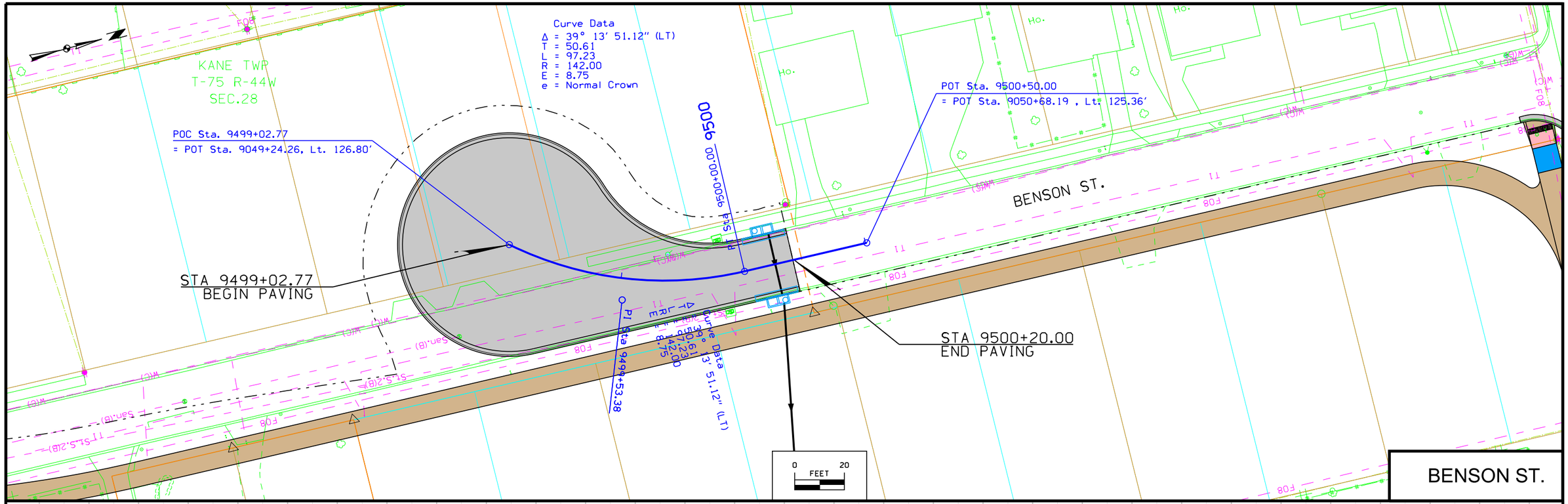
9:29:16 AM 10/26/2017 mplummer pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\78029166-E.sht

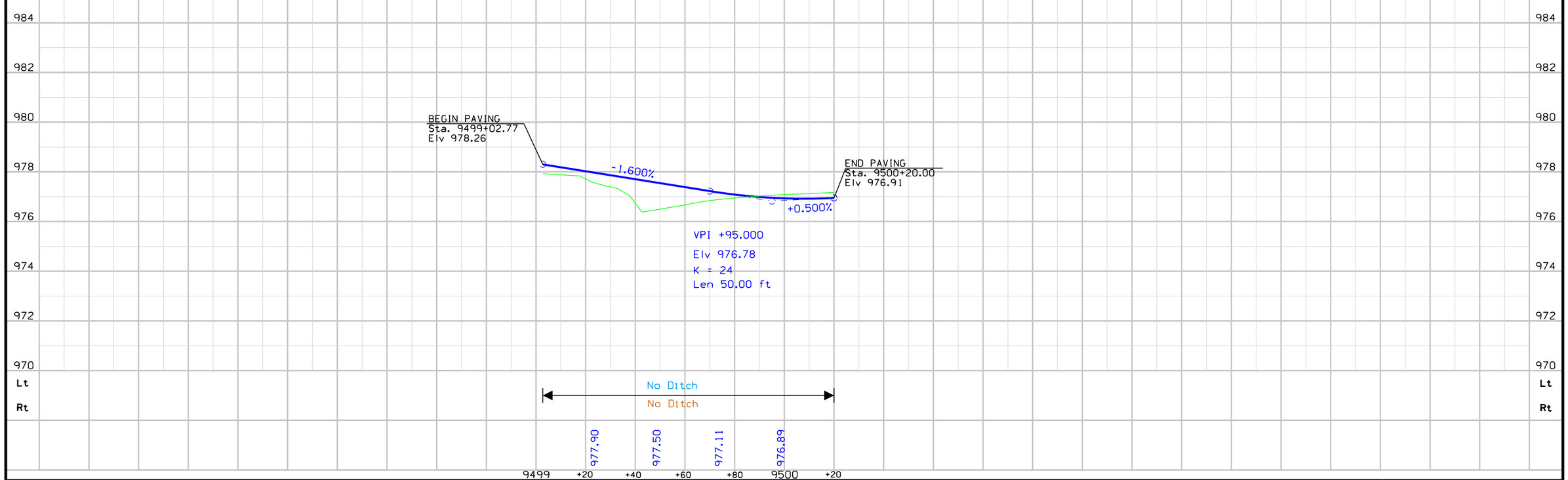




FILE NO.	ENGLISH	DESIGN TEAM Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER IM-029-3(166)54--13-78	SHEET NUMBER E.44

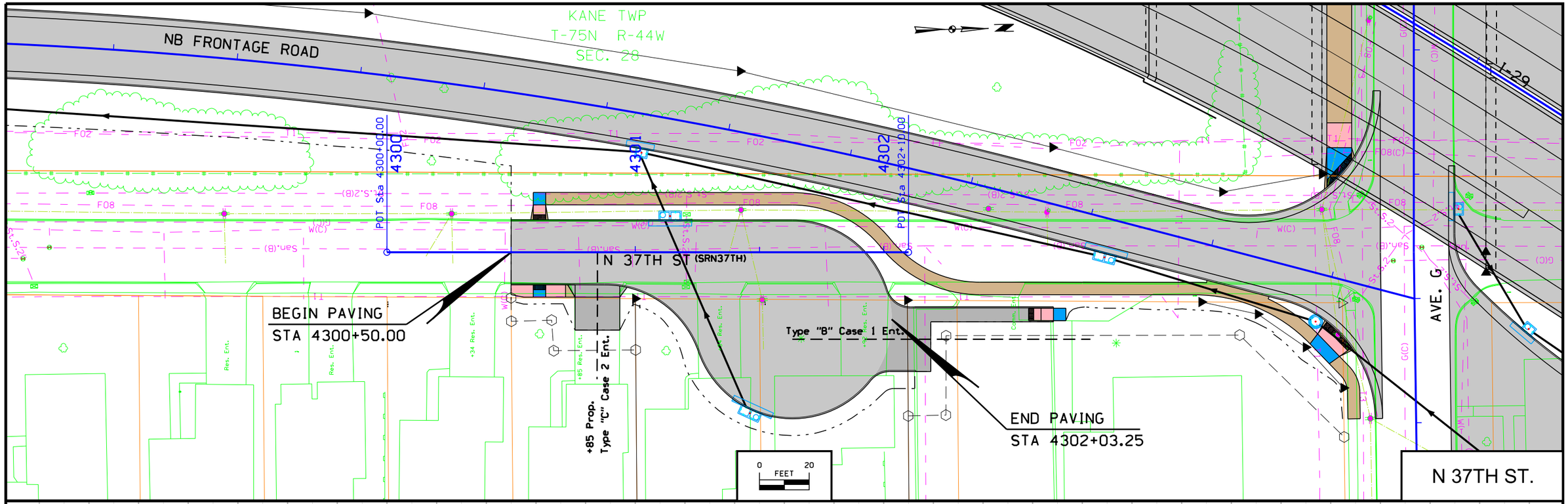
9:29:21 AM 10/26/2017 mplummer pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\+HR_Green\Design-HR Green\Sheeting-HR Green\78029166-HRG-E100.sht





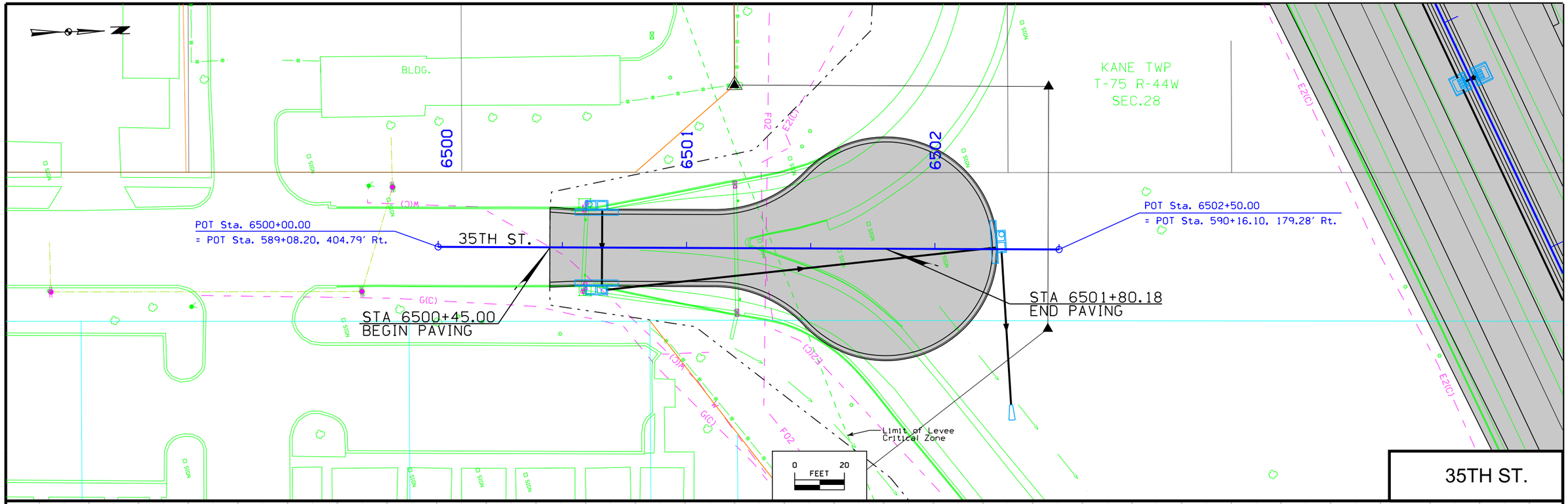
FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER	E.45

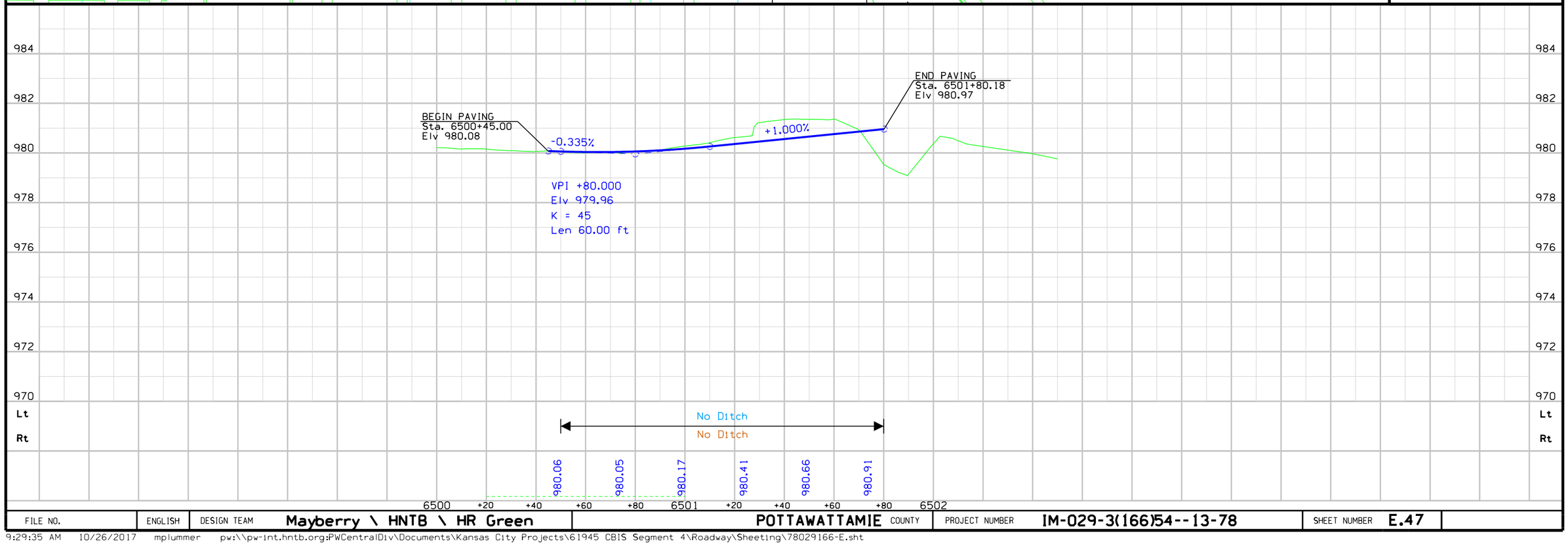
9:29:25 AM 10/26/2017 mplummer pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\78029166-E.sht



FILE NO.	ENGLISH	DESIGN TEAM Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER IM-029-3(166)54--13-78	SHEET NUMBER E.46

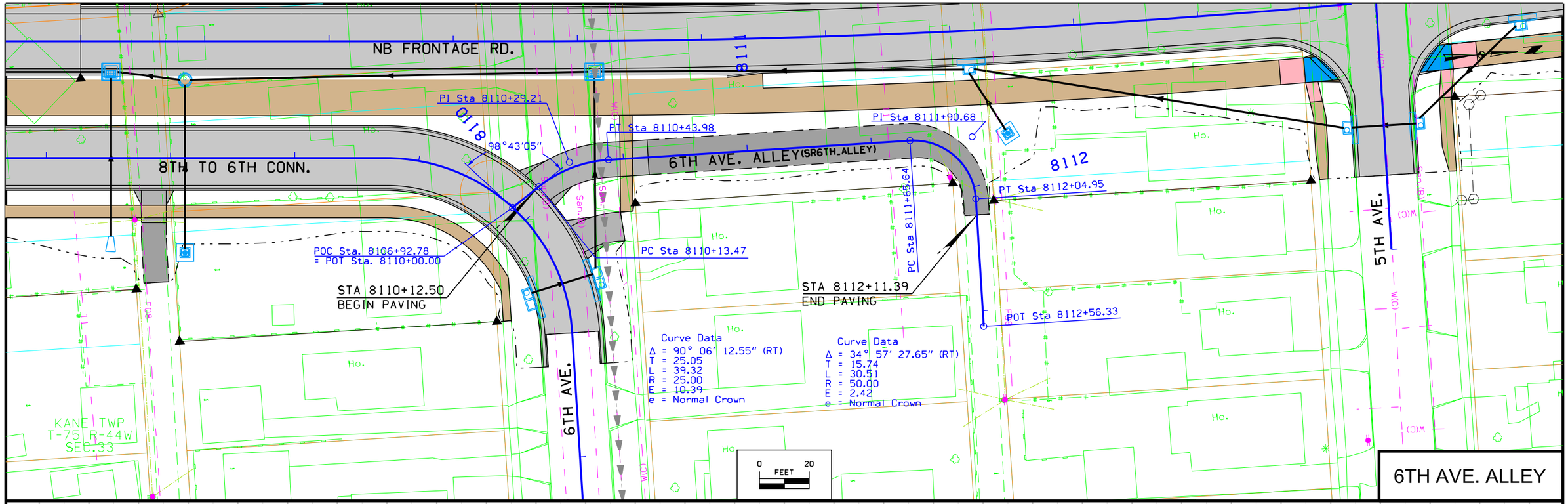
12:22:53 PM 10/26/2017 mplummer pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\+HR_Green\Design-HR Green\Sheeting-HR Green\78029166-HRG-E100.sht

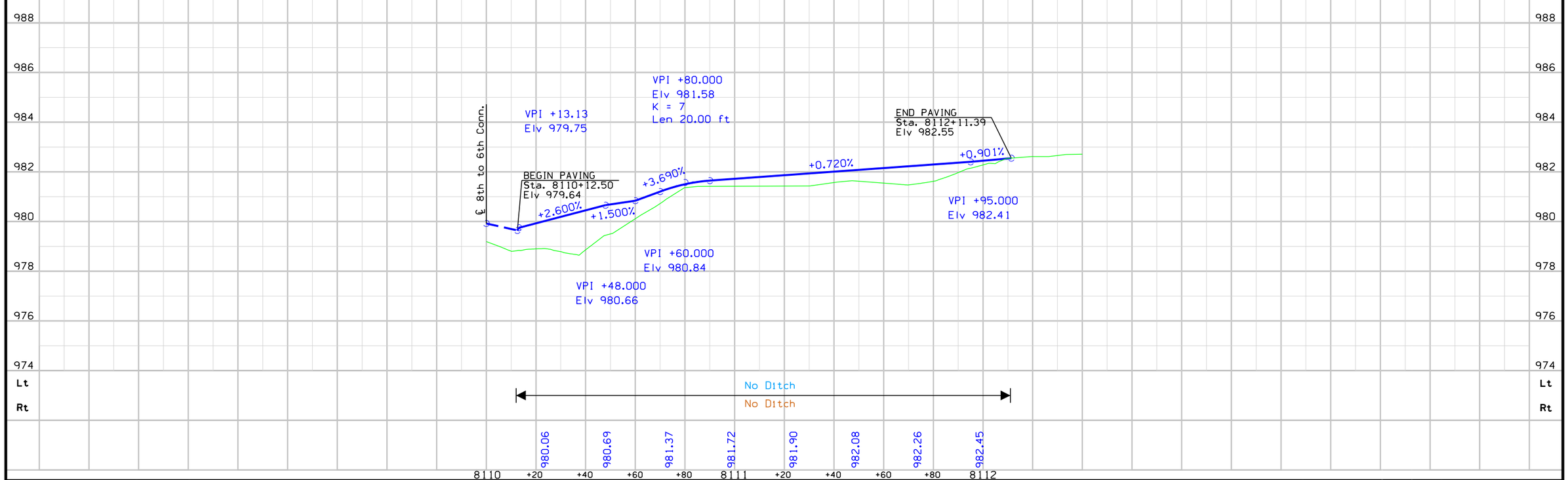




FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER	E.47

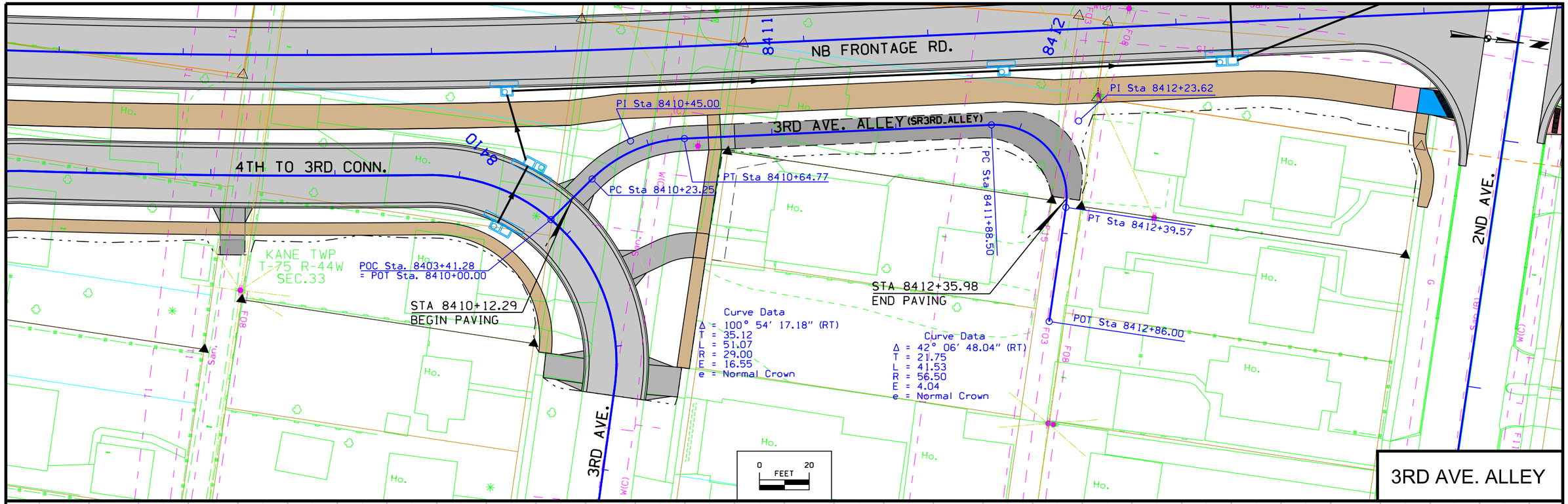
9:29:35 AM 10/26/2017 mplummer pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\78029166-E.sht

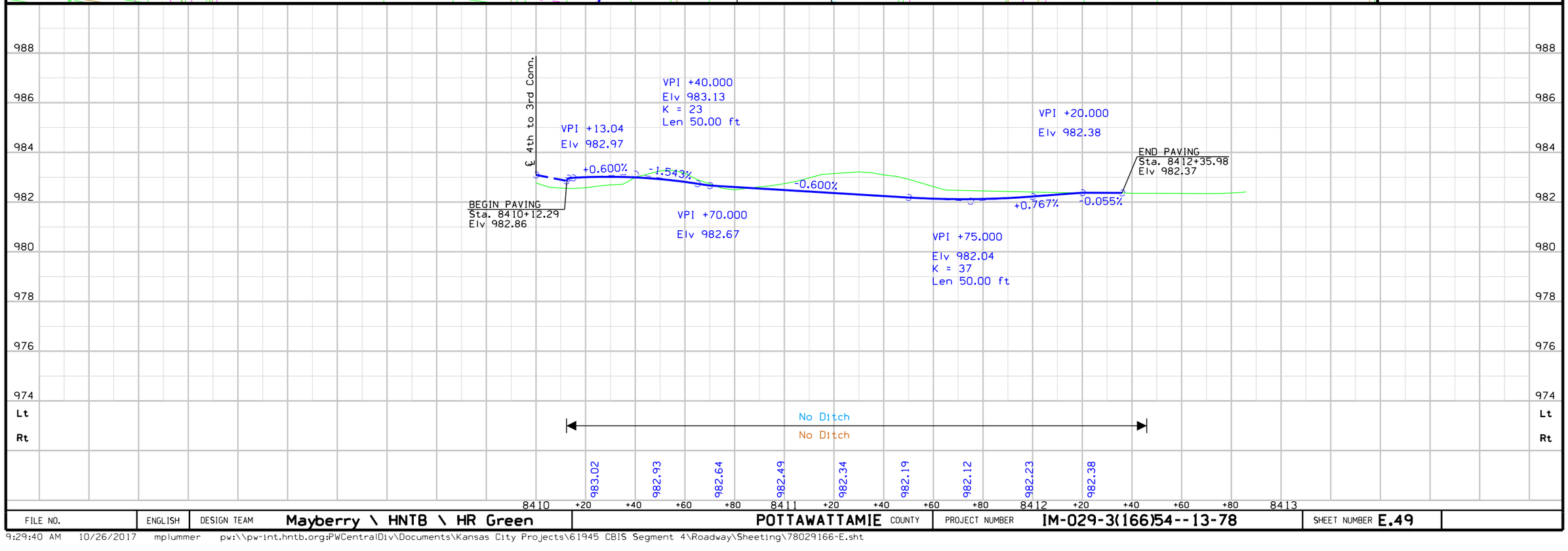




FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER E.48

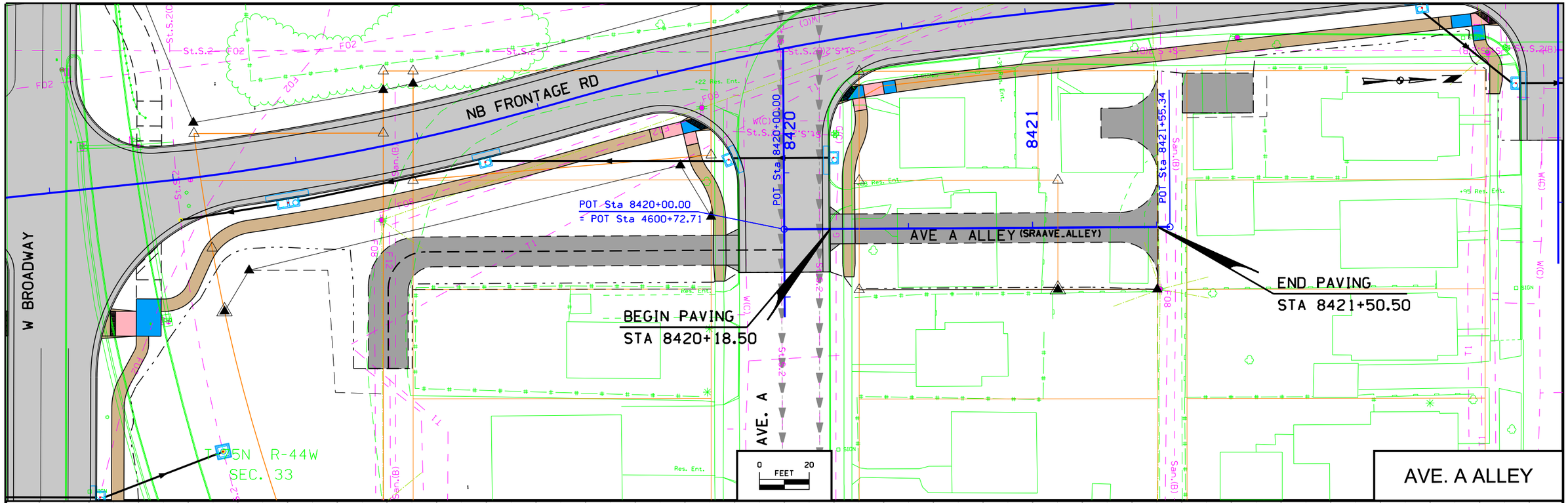
9:29:37 AM 10/26/2017 mplummer pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\78029166-E.sht

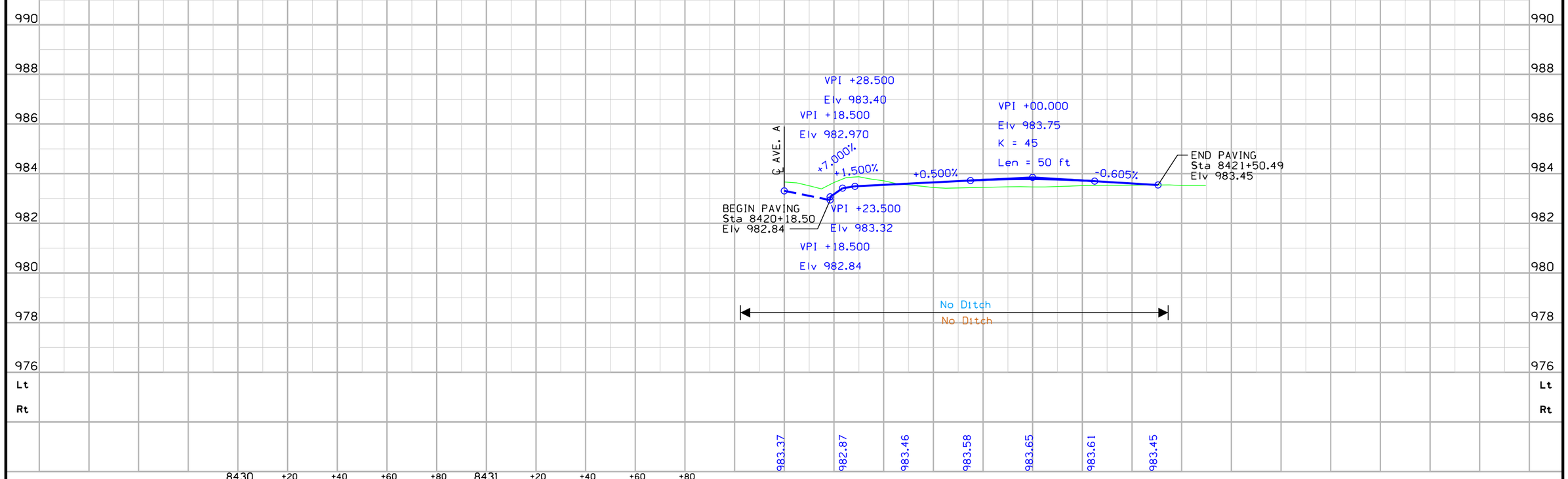




FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER E.49

9:29:40 AM 10/26/2017 mplummer pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\78029166-E.sht





FILE NO.	ENGLISH	DESIGN TEAM Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER IM-029-3(166)54--13-78	SHEET NUMBER E.50

9:29:44 AM 10/26/2017 mplummer pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\+HR_Green\Design-HR Green\Sheeting-HR Green\78029166-HRG-E100.sht

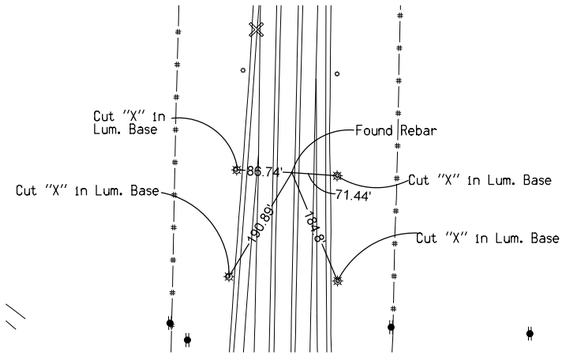
Survey Information

VERTICAL CONTROL

Point	North	East	Elevation	Station	Offset	Feature	Description
BM559	465847.588	978668.375	999.966	516+76.94	-54.729	BM	""FD IHC - SW HNDRL SB BRIDGE"
BM560	465981.395	978781.253	1000.516	518+13.26	55.097	BM	""FD IHC - NE HNDRL NB BRIDGE"
BM561	466913.531	978920.950	981.243	527+48.31	173.694	BM	""CUT X - S. BOLT FIRE HYD"
BM562	468082.729	978759.309	999.075	539+00.79	98.223	BM	""FD IHC - SE WING NB BRIDGE
BM563	468211.543	978554.686	1003.120	540+68.14	-75.977	BM	""CUT X NE HNDRL SB BRIDGE
BM564	468205.027	978481.938	998.037	540+78.05	-148.370	BM	""CUT X NW WING SB BRIDGE
BM565	468817.184	978695.854	1001.394	546+08.34	224.217	BM	""CUT X SE WING NB LANE OVER BROADWAY"
BM566	469008.447	978635.632	999.113	548+08.85	225.936	BM	""FD NAIL NW WING NB LANE BRIDGE OVER BROADWAY"
BM567	469122.869	978384.697	1020.613	549+95.64	21.826	BM	""CUT X NW HNDRL NB LANE BRIDGE 480 N."
BM568	469995.128	978545.237	988.119	559+05.84	278.068	BM	""CUT X NW COR CONC CURB"
BM569	470583.696	978284.546	988.082	564+57.01	-90.628	BM	""CUT X SE SIDE W OVERHEAD CONC SIGN BASE"
BM570	471092.440	978564.990	1000.374	570+22.17	-38.005	BM	""CUT X SE HNDRL NB LANE BRIDGE OF AVE G"
BM571	471226.527	978484.290	1000.891	570+92.41	-176.306	BM	""FD IHC NW WING SB LANE BRIDGE OVER AVE G"
BM574	469279.174	978112.332	1013.041	552+06.14	-204.242	BM	""FD IHC NW WING I-29 SB BRIDGE OVER BROADWAY"
BM629	468954.928	979420.978	985.542	545+17.85	956.482	BM	""FD ARROW TOP FIRE HYDRANT"

Point	North	East	Elevation	Station	Offset	Feature	Description
BM575	473135.994	982278.296	984.316	613+22.48	63.865	BM	""CUT X N SIDE CON LUM BASE"
BM576	473520.994	983812.147	980.294	629+51.21	80.655	BM	""CUT X NW COR 4X4 CONC INTAKE COVER"
BM577	474149.739	983683.820	996.903	628+37.37	-549.242	BM	""FD USGS STAMPED J139-1948 PID=MJ0770"
BM578	473472.186	985047.563	991.235	641+91.26	58.604	BM	""CUT X NW COR CONC INTAKE COVER"
BM579	473429.284	985756.132	1006.473	649+01.13	59.001	BM	""CUT X SW SIDE HNDRL NB LANE BRIDGE OVER 25TH"
BM580	473538.986	985919.977	1009.096			BM	""CUT X NE SIDE HNDRL SB LANE BRIDGE OVER 25TH"
BM581	473645.737	986692.187	1019.422			BM	""CUT X NW HNDRL SB LANE BRIDGE OVER OLD RR"
BM582	473831.518	987230.787	1018.932			BM	""FD IHC NE COR WING NB LANE BRIDGE OVER OLD RR "
BM583	474761.205	988068.089	982.085			BM	""FD IHC RT HEWL 6X8 RCB"
BM584	476321.456	989176.352	975.947			BM	""CUT X INLET 24 IN RCP MEDIAN"
BM585	477058.716	989807.366	1003.653			BM	""FD IHC LT HDWL TWIN 10X10 RCB UNDER NM LANES "
BM586	477314.815	989945.253	1006.540			BM	""CUT X NW HDRL NB LANE BRIDGE OVER 16TH ST."
BM587	478276.826	990211.986	984.641			BM	""FD IHC LT HDWL TWIN 10X10 RCB UNDER NB LANES "
BM588	480360.719	990306.583	979.449			BM	""SET RR SPIKE W. SIDE PP"
BM589	482193.440	990048.845	981.316			BM	""SET RR SPIKE W SIDE PP"
BM590	484143.128	989776.114	977.440			BM	""FD NGS BM B 180 STEEL ROD IN SLEEVE"

GPS STA 495+56.64, 8.78′ RT
GPS FD. REBAR 0.5′ DEEP, GPS POINT G033
N=463726.400, E=978683.950



GPS STA 516+40.75, 7.01′ RT.
GPS FD. REBAR 0.5′ DEEP, GPS POINT G034
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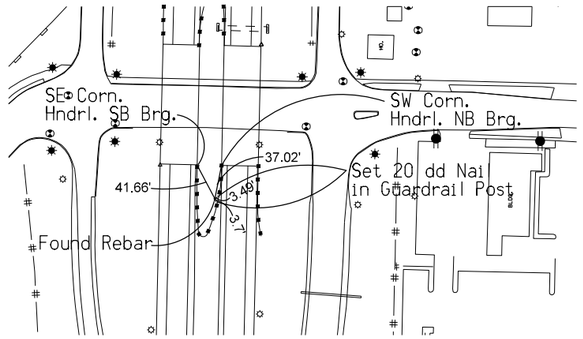

GPS STA 545+69.07, 171.99′ RT.
GPS FD. REBAR 0.5′ DEEP, GPS POINT G035
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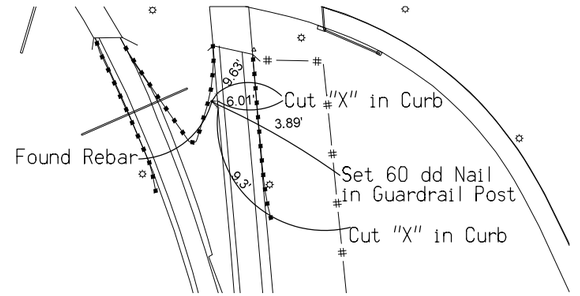

GPS STA 572+03.00, 124.19′ LT.
GPS FD. REBAR 0.5′ DEEP, GPS POINT G036
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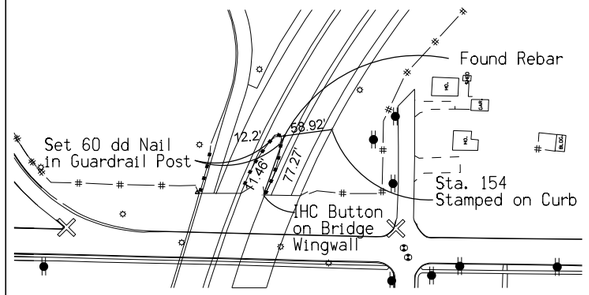

GPS STA 579+67.63, 85.77′ LT.
GPS FD. REBAR 0.5′ DEEP, GPS POINT G037
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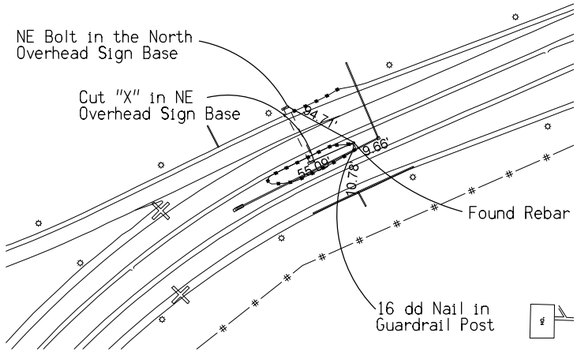
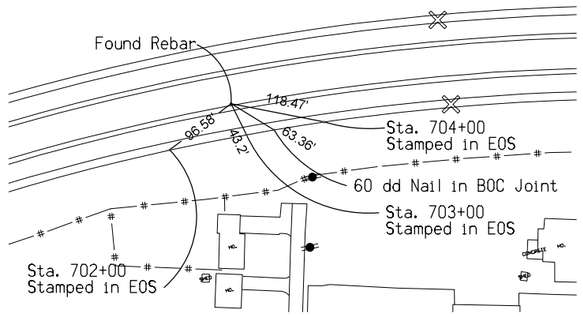


GPS STA 623+95.48, 16.73′ RT.
GPS FD. REBAR 0.5′ DEEP, GPS POINT G038
N=473537.710, E=983263.340



GPS STA 992+31.58, 85.29′ RT.
GPS FD. REBAR 0.5′ DEEP, GPS POINT G039
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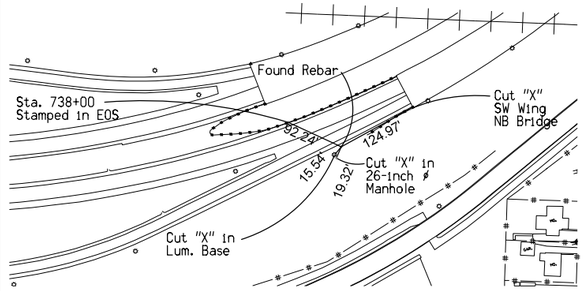

GPS STA 712+58.61, 24.40 RT.
GPS FD. REBAR 0.5′ DEEP, GPS POINT G040
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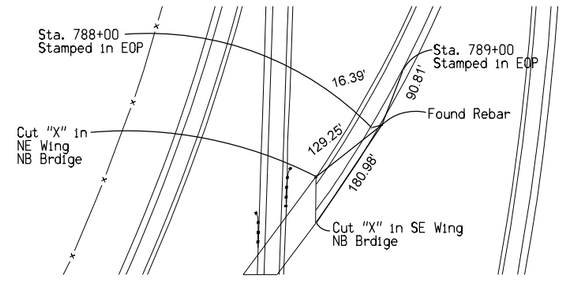

GPS STA 762+00.00, 25.11 RT.
GPS FD. REBAR 0.5′ DEEP, GPS POINT G041
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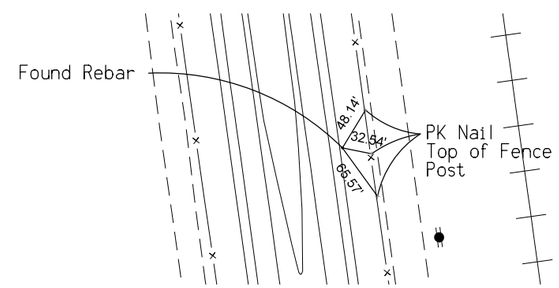

GPS STA 477+13.57, 586.63, RT.
GPS POINT FENO 1
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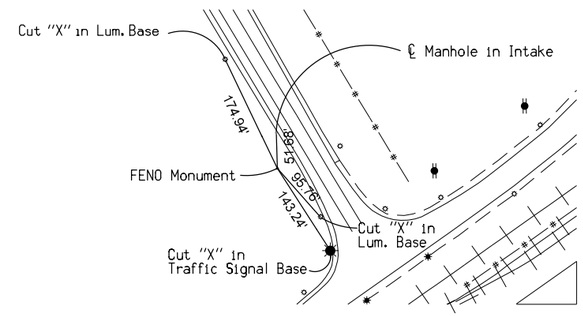
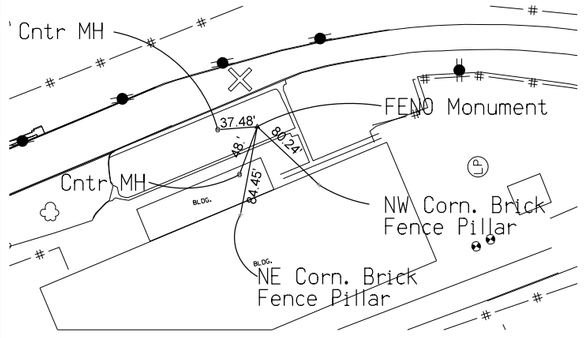
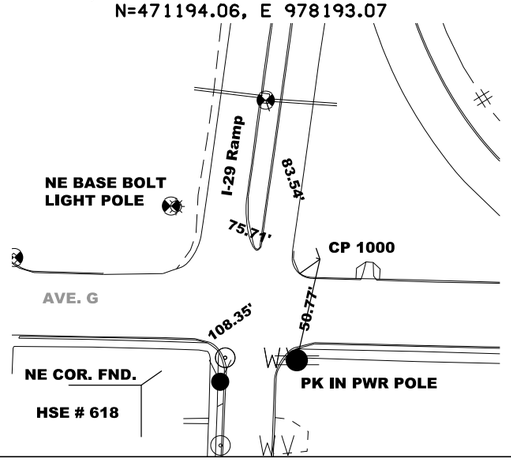


GPS STA 545+49.58, 1425.90, LT.
GPS FENO 2
N=468552.894, E=977231.572

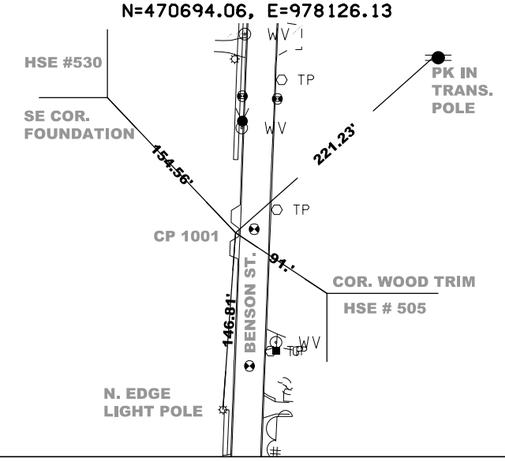


FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER G.2

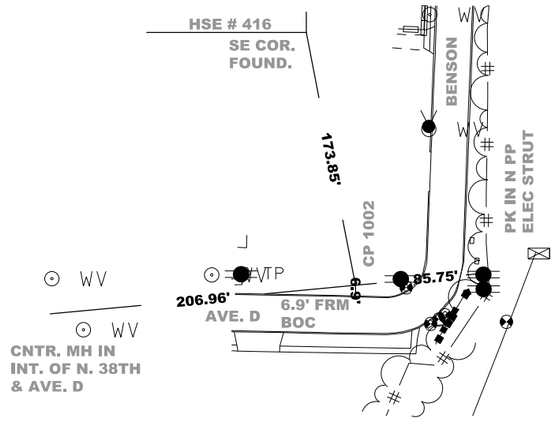
CP No. 1000, 5/8" Rebar In Med., NE Cor. Benson & G
N=471194.06, E 978193.07



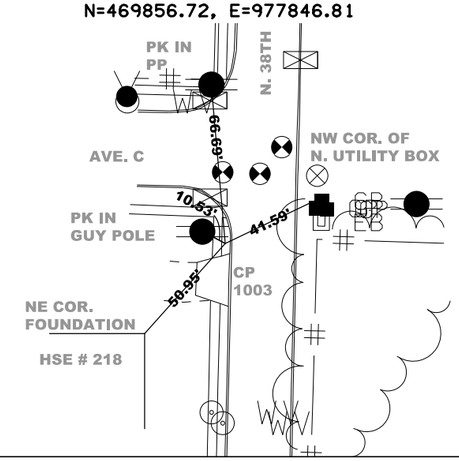
CP No. 1001, 5/8" Rebar, W-Side Benson Betw. D & G
N=470694.06, E=978126.13



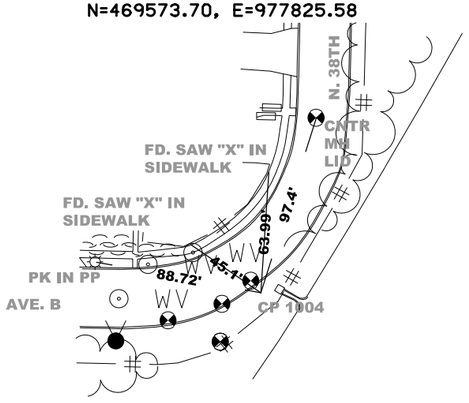
CP No. 1002, 5/8" Rebar, NW Cor. Ave D & Benson
N=470238.93, E=978065.15



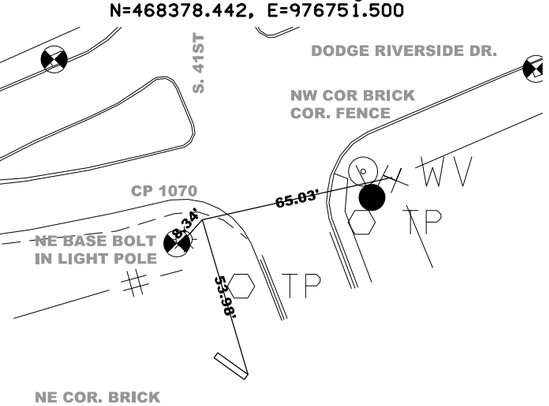
CP No. 1003, 5/8" Rebar, SW Cor. Ave C - 38th
N=469856.72, E=977846.81



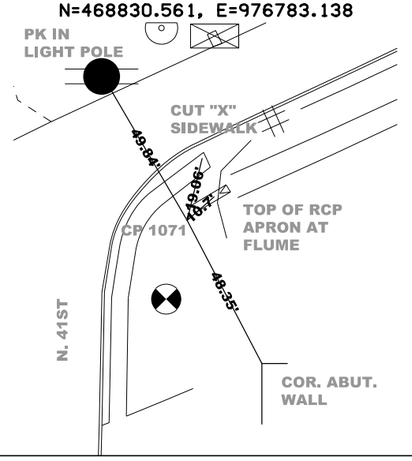
CP No. 1004, 5/8" Rebar, 4' E Of Curb, Ave B 38th St
N=469573.70, E=977825.58



CP No. 1070, 5/8" Rebar, SW Cor Dogde Riv. Dr./S. 41
N=468378.442, E=976751.500



CP No. 1071, 5/8" Rebar, SE Cor 41st / Park Ent.
N=468830.561, E=976783.138



ALIGNMENT COORDINATES

101-16
10-20-09

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)
I-29																			
20000		495+00.00	463,669.97	978,673.90															
20001		505+00.00	464,669.72	978,696.49															
20002								528+48.22	467,017.34	978,749.56	536+96.76	467,865.66	978,768.73	545+29.28	468,672.81	978,506.96			
20003								549+35.90	469,059.60	978,381.52	571+81.24	471,195.42	977,688.84	585+85.36	472,096.30	979,745.53			
20004								617+40.93	473,362.39	982,635.97	624+27.46	473,637.84	983,264.82	630+88.32	473,596.73	983,950.11			
20005		649+74.32	473,483.80	985,832.73															
I-480																			
21000		105+00.00	468,417.91	975,761.16															
21001								106+90.58	468,449.83	975,949.05	108+45.38	468,475.76	976,101.65	110+00.00	468,514.01	976,251.65			
W Broadway																			
22000		200+00.00	468,939.64	978,038.84															
22001		207+25.46	468,913.92	978,763.84															
22002		213+07.53	468,896.27	979,345.64															
22003		213+45.07	468,894.37	979,383.14															
22004		215+00.81	468,894.78	979,538.87															
WB W Broadway																			
71000		1191+56.16	469,058.42	977,214.97															
71001								1192+38.67	469,074.10	977,295.98	1194+81.38	469,120.21	977,534.27	1197+09.98	469,026.14	977,758.01			
71002								1197+09.98	469,026.14	977,758.01	1198+56.60	468,969.32	977,893.17	1200+00.00	468,964.12	978,039.70			
EB W Broadway																			
74000		4191+26.58	468,673.14	977,203.46															
74001								4197+14.37	468,869.27	977,757.55	4198+66.43	468,920.01	977,900.90	4200+14.90	468,914.62	978,052.86			
NB Frontage Rd																			
80000		7999+99.56	465,908.29	978,853.53															
80001								8001+47.49	466,055.83	978,864.25	8001+93.20	466,101.42	978,867.57	8002+38.91	466,146.94	978,871.71			
80002								8009+82.19	466,887.16	978,939.14	8014+46.15	467,349.21	978,981.23	8019+05.03	467,806.83	978,904.80			
80003								8024+48.16	468,342.55	978,815.32	8025+38.05	468,431.20	978,800.51	8026+27.81	468,520.83	978,793.71			
80004		8029+58.95	468,851.03	978,768.68															
80005								8031+02.31	468,993.95	978,757.68	8031+82.10	469,073.40	978,750.24	8032+61.56	469,150.66	978,730.28			
80006								8032+61.56	469,150.66	978,730.28	8033+46.01	469,232.43	978,709.17	8034+30.06	469,316.58	978,702.07			
80007								8041+81.28	470,065.14	978,638.89	8042+27.93	470,111.62	978,634.97	8042+74.51	470,158.27	978,635.39			
80008								8045+84.72	470,468.47	978,638.19	8048+57.82	470,741.56	978,640.65	8051+27.57	471,003.99	978,716.24			
80009		8052+84.38	471,154.68	978,759.64															
SB Frontage Rd																			
90000		9000+00.00	465,912.37	978,586.55															
90001								9007+90.08	466,702.25	978,604.40	9010+00.31	466,912.43	978,609.15	9012+09.86	467,121.21	978,584.54			
90002								9018+95.68	467,802.32	978,504.26	9020+27.20	467,932.94	978,488.87	9021+57.22	468,055.13	978,440.22			
90003								9033+49.75	469,163.09	977,999.14	9036+10.62	469,405.46	977,902.65	9038+54.09	469,658.12	977,967.59			
90004		9054+09.36	471,164.43	978,354.71															
9th Ave.																			
30000		3000+00.00	465,488.17	978,098.25															
30001		3003+69.34	465,745.51	978,363.19															
30002								3005+17.33	465,852.26	978,465.67	3006+05.25	465,915.68	978,526.57	3006+83.00	465,913.69	978,614.46			
30003		3009+34.14	465,908.02	978,865.54															
30004		3012+10.00	465,904.11	979,141.38															
30005		3014+00.00	465,897.98	979,331.28															

FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER	G.4

ALIGNMENT COORDINATES

101-16
10-20-09

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)
Dodge Riverside Dr.																			
40000		4000+00.00	468,333.09	976,592.04															
40001								4003+69.40	468,475.41	976,932.93	4004+37.93	468,501.81	976,996.16	4005+04.57	468,501.09	977,064.68			
40002								4005+53.09	468,500.59	977,113.20	4006+52.01	468,499.56	977,212.12	4007+45.40	468,552.70	977,295.55			
40003								4007+95.94	468,579.85	977,338.18	4009+36.47	468,655.34	977,456.71	4010+61.90	468,623.09	977,593.49			
40004								4010+61.90	468,623.09	977,593.49	4012+20.46	468,586.70	977,747.82	4013+78.29	468,525.23	977,893.99			
40005								4013+78.29	468,525.23	977,893.99	4015+12.40	468,473.24	978,017.60	4016+33.27	468,350.10	978,070.69			
40006								4016+33.27	468,350.10	978,070.69	4018+46.45	468,154.33	978,155.08	4020+12.51	468,149.03	978,368.20			
40007		4020+47.51	468,148.16	978,403.19															
50000		5000+00.00	468,148.16	978,403.19															
50001		5008+50.78	468,126.99	979,253.71															
Ave. G																			
60000		6000+00.00	471,171.72	978,059.80															
60001		6006+81.32	471,154.89	978,740.92															
60002		6013+07.14	471,148.05	979,366.70															
70000		7000+00.00	468,510.81	977,198.61															
70001		7009+30.67	469,441.06	977,226.40															
81000		8098+50.00	466,226.81	979,156.35															
81001								8099+99.31	466,229.88	979,007.06	8100+79.78	466,231.54	978,926.62	8101+22.39	466,311.67	978,933.92			
81002								8106+36.88	466,824.04	978,980.59	8107+07.33	466,894.20	978,986.98	8107+50.00	466,892.20	979,057.40			
81003		8108+59.05	466,889.12	979,166.41															
7th Ave.																			
82000		8200+00.00	466,562.59	978,956.77															
82001		8200+99.10	466,559.50	979,055.82															
5th Ave.																			
83000		8300+00.00	467,226.58	978,953.97															
83001		8301+00.00	467,223.75	979,053.93															
4th Ave.																			
91000		9100+00.00	467,492.94	978,441.13															
91001		9101+00.00	467,489.95	978,541.08															
84000		8399+50.00	467,476.16	979,125.86															
84001								8400+16.20	467,477.98	979,059.69	8400+82.95	467,479.82	978,992.96	8401+25.29	467,546.32	978,987.05			
84002								8401+25.29	467,546.32	978,987.05	8402+06.38	467,627.09	978,979.88	8402+87.44	467,707.46	978,969.12			
84003								8402+87.44	467,707.46	978,969.12	8403+74.64	467,793.88	978,957.56	8404+16.51	467,792.40	979,044.74			
84004		8404+70.08	467,791.48	979,098.31															
3rd Ave.																			
92000		9200+00.00	467,807.06	978,404.05															
92001		9201+00.00	467,804.39	978,504.02															
W 2nd Ave.																			
42000		4200+00.00	468,156.76	978,070.90															
42001								4200+96.65	468,154.17	978,167.52	4201+27.32	468,153.35	978,198.18	4201+51.67	468,180.30	978,212.80			
42002		4201+61.84	468,189.24	978,217.66															
S 38th St.																			
93100		9310+00.00	469,568.42	977,855.85															
93101		9314+00.00	469,968.31	977,865.49															
Ave. A																			
46000		4600+00.00	469,238.58	978,711.75															
46001		4601+08.12	469,236.23	978,819.84															
W Ave. B																			
93000		9300+00.00	469,571.81	977,699.71															
93001		9302+50.00	469,566.39	977,949.65															

FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER	G.5

ALIGNMENT COORDINATES

101-16
10-20-09

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)
47000		4700+00.00	469,551.45	978,682.24															
47001		4701+24.69	469,548.22	978,806.90															
N 38th St.																			
93100		9310+00.00	469,568.42	977,855.85															
93101		9314+00.00	469,968.31	977,865.49															
94000		9400+00.00	470,221.85	977,911.51															
94001		9402+00.00	470,217.97	978,111.47															
Ave. D																			
48000		4800+00.00	470,207.04	978,635.83															
48001		4801+65.71	470,202.59	978,801.48															
Benson St. (cds)																			
95000								9499+02.77	470,726.17	978,111.16	9499+53.38	470,764.15	978,144.60	9500+00.00	470,814.72	978,146.49			
95001		9500+50.52	470,865.20	978,148.38															
N 37th St. (cds)																			
43000		4300+00.00	470,741.54	978,730.73															
43001		4302+10.00	470,951.48	978,735.94															
N 35th St. (cds)																			
651000								6510+00.00	471,965.84	980,222.86	6510+21.44	471,987.27	980,223.58	6510+40.50	472,001.52	980,239.59			
651001								6510+40.50	472,001.52	980,239.59	6510+83.34	471,973.04	980,207.60	6512+54.78	472,003.59	980,177.58			
651002								6512+54.78	472,003.59	980,177.58	6512+76.21	471,988.30	980,192.60	6512+95.28	471,966.88	980,191.88			
6th Ave. Alley																			
81100		8110+00.00	466,872.89	979,005.01															
81101								8110+13.47	466,884.14	978,997.60	8110+29.21	466,897.29	978,988.94	8110+43.98	466,913.02	978,989.37			
81102								8111+65.64	467,034.64	978,992.73	8111+90.68	467,059.67	978,993.43	8112+04.95	467,058.94	979,018.46			
81103		8112+56.33	467,057.42	979,069.81															
84100		8410+00.00	467,758.81	978,980.93															
84101								8410+23.25	467,773.25	978,962.71	8410+45.00	467,786.76	978,945.66	8410+64.77	467,808.22	978,942.08			
84102								8411+88.50	467,930.26	978,921.70	8412+23.62	467,964.90	978,915.91	8412+39.57	467,964.02	978,951.02			
84103		8412+86.00	467,962.87	978,997.43															
Ave. A Alley																			
84200		8420+00.00	469,237.00	978,784.45															
84201		8421+55.34	469,392.30	978,787.82															

ALIGNMENT COORDINATES (RAMPS)

101-16
10-20-09

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)
9th St. Ramp A																			
31000		1525+50.67	466,702.00	978,615.40															
31001								1529+51.28	467,102.51	978,624.45	1533+45.30	467,496.43	978,633.36	1537+36.02	467,882.47	978,554.45			
31002								1537+36.02	467,882.47	978,554.45	1537+44.15	467,890.43	978,552.83	1537+52.27	467,898.37	978,551.09			
9th St. Ramp B																			
32000		2508+98.80	465,066.18	978,804.35															
32001		2517+42.86	465,908.02	978,865.54															
9th St. Ramp C																			
33000								3505+20.00	464,691.13	978,633.96	3506+49.75	464,820.85	978,636.89	3507+79.22	464,950.07	978,625.22			
33001								3512+50.22	465,419.19	978,583.09	3513+63.05	465,531.55	978,572.94	3514+75.63	465,644.34	978,575.49			
33002		3517+43.07	465,911.71	978,581.53															
9th St. Ramp D																			
34000		4525+36.19	466,708.36	978,893.67															
34001								4530+99.81	467,271.82	978,907.28	4532+23.84	467,395.81	978,910.28	4533+47.48	467,519.04	978,896.24			
34002		4536+41.36	467,811.03	978,862.98															
40th St. Ramp B																			
72000		2109+06.71	468,405.76	976,180.74															
72001								2110+51.36	468,418.06	976,324.87	2113+07.83	468,439.86	976,580.41	2115+61.52	468,525.44	976,822.18			
72002		2119+65.56	468,660.27	977,203.07															
40th St. Ramp C																			
73000								3106+15.00	468,489.43	975,865.65	3109+86.88	468,551.71	976,232.28	3113+49.47	468,747.62	976,548.37			
73001								3117+37.89	468,952.24	976,878.52	3118+84.99	469,029.73	977,003.55	3120+28.84	469,057.68	977,147.98			
73002		3120+97.45	469,070.71	977,215.34															
Ave. G Ramp A																			
61000		1567+65.39	471,164.73	978,342.40															
61001								1569+30.88	471,325.01	978,383.59	1573+53.98	471,734.79	978,488.91	1577+09.24	471,878.39	978,886.89			
61002		1587+01.06	472,215.02	979,819.84															
Ave. G Ramp D																			
64000		4572+40.44	471,154.49	978,777.14															
64001								4572+96.89	471,202.94	978,806.10	4574+18.89	471,307.67	978,868.67	4575+39.69	471,394.29	978,954.60			
64002								4577+88.62	471,571.01	979,129.91	4582+64.95	471,909.17	979,465.37	4587+30.00	472,100.29	979,901.69			
I-480 Ramp A																			
51000		1542+93.19	468,902.16	977,204.09															
51001								1546+83.48	469,040.75	977,568.94	1551+19.47	469,195.58	977,976.52	1554+86.82	469,618.73	978,081.58			
51002		1559+52.29	470,070.49	978,193.75															
I-480 Ramp C																			
53000								3531+71.71	467,338.10	978,683.46	3534+64.77	467,630.90	978,671.13	3537+54.94	467,912.13	978,588.70			
53001								3537+54.94	467,912.13	978,588.70	3549+69.37	469,077.53	978,247.13	3556+54.24	468,722.06	977,085.89			
53002								3563+32.94	468,523.39	976,436.92	3564+23.91	468,496.76	976,349.93	3565+14.85	468,474.28	976,261.78			
I-480 Ramp F																			
56000		6542+36.07	468,830.91	977,373.16															
56001								6544+81.62	468,902.79	977,607.95	6552+78.07	469,135.92	978,369.52	6558+87.91	469,928.24	978,450.48			
56002								6565+38.32	470,575.29	978,516.60	6568+76.16	470,911.38	978,550.94	6572+00.00	471,190.33	978,741.51			
I-480 Ramp H																			
58000		8529+28.83	467,097.37	978,837.67															
58001								8532+34.91	467,402.98	978,854.78	8535+29.37	467,696.97	978,871.23	8538+20.89	467,986.22	978,816.13			
58002								8538+20.89	467,986.22	978,816.13	8552+51.38	469,391.45	978,548.45	8559+15.61	468,883.46	977,211.20			
58003								8565+14.07	468,670.94	976,651.74	8567+27.99	468,594.97	976,451.76	8569+41.45	468,542.11	976,244.48			

FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER	G.7

9:45:20 AM 10/26/2017 mplummer pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\78029166-G.sht

ALIGNMENT COORDINATES (WALLS)

101-16
10-20-09

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)
Wall #2010																			
20100		201010+00.00	465,171.19	978,642.39															
20101		201015+99.86	465,771.04	978,643.95															
20102		201016+95.67	465,866.83	978,646.12															
20103		201016+97.00	465,866.86	978,644.78															
20104		201017+51.33	465,921.18	978,646.01															
Wall #2011																			
20110		201115+90.00	465,874.39	978,613.70															
20111		201117+90.00	465,869.88	978,813.64															
Wall# 2012																			
20120		201210+00.00	465,168.11	978,773.19															
20121		201216+95.67	465,863.60	978,788.91															
20122		201216+97.00	465,863.57	978,790.25															
20123		201217+51.33	465,917.89	978,791.47															
Wall #2020																			
20200		202017+23.67	465,896.18	978,645.45															
20201		202018+04.00	465,976.49	978,647.26															
20202		202018+05.33	465,976.46	978,648.59															
20203								202028+48.22	467,019.09	978,672.16	202030+07.52	467,178.34	978,675.76	202031+66.70	467,337.50	978,669.06			
20204								202031+66.70	467,337.50	978,669.06	202034+30.63	467,601.19	978,657.95	202036+92.42	467,856.08	978,589.47			
Wall #2021																			
20210		202116+90.00	465,970.37	978,615.86															
20211		202118+90.00	465,965.85	978,815.81															
Wall #2022																			
20220		202217+23.67	465,892.89	978,790.91															
20221		202218+04.00	465,973.20	978,792.72															
20222		202218+05.33	465,973.23	978,791.39															
20223		202220+51.69	466,219.53	978,796.96															
20224		202232+07.51	467,373.54	978,861.56															
Wall #2060																			
20600								206572+00.00	471,183.80	978,751.07	206572+41.68	471,218.50	978,774.16	206572+83.36	471,252.42	978,798.39			
20601								206572+84.52	471,253.09	978,797.45	206576+34.99	471,538.27	979,001.16	206579+80.99	471,757.07	979,274.94			
Wall #3140																			
31400								314531+70.00	467,320.63	978,612.16	314534+52.86	467,603.26	978,600.89	314537+34.48	467,880.39	978,544.25			
31401								314537+34.48	467,880.39	978,544.25	314538+11.64	467,955.99	978,528.79	314538+88.58	468,028.90	978,503.52			
31402								314538+89.92	468,028.46	978,502.25	314539+61.63	468,096.21	978,478.77	314540+33.15	468,160.57	978,447.16			
Wall #3430																			
34300		343025+00.00	466,771.97	978,903.62															
34301								343029+99.79	467,271.62	978,915.70	343031+24.40	467,396.19	978,918.71	343032+48.62	467,520.00	978,904.60			
34302		343034+00.74	467,671.14	978,887.38															
34303		343035+01.08	467,770.60	978,874.04															
34304		343035+40.85	467,810.11	978,869.54															
34305		343035+42.19	467,810.26	978,870.87															
34306								343035+43.93	467,811.99	978,870.67	343035+57.22	467,825.17	978,868.91	343035+70.52	467,838.33	978,867.01			
Wall #5650																			
56500								565568+00.00	470,827.51	978,578.28	565569+19.71	470,941.95	978,613.42	565570+38.76	471,048.19	978,668.59			
56501								565570+39.93	471,047.65	978,669.62	565570+94.55	471,096.13	978,694.80	565571+49.11	471,142.36	978,723.89			
Wall #5831																			
58310		583135+00.00	467,813.27	978,786.46															
58311		583136+00.00	467,825.05	978,885.76															
Wall #5832																			
58320		583231+50.00	467,320.14	978,815.67															
58321								583232+34.89	467,404.90	978,820.41	583234+34.83	467,604.53	978,831.59	583236+33.83	467,803.21	978,809.10			
58322								583236+35.16	467,803.05	978,807.77	583236+49.33	467,817.13	978,806.18	583236+63.50	467,831.19	978,804.42			
Wall #5370																			
53700								537555+49.67	468,736.71	977,189.21	537555+92.05	468,727.87	977,147.76	537556+34.40	468,716.09	977,107.05			
53701								537556+35.73	468,717.37	977,106.68	537556+44.99	468,714.80	977,097.79	537556+54.24	468,712.09	977,088.94			
53702		537562+00.00	468,552.34	976,567.08															

FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER	G.8

SPIRAL OR CIRCULAR CURVE DATA

101-17
04-19-11

Name	Location	Δ_{scs}	Horizontal Alignment Data												Remarks
			Spiral Data							Curve Data					
			θs	Ls	Ts	Es	Xc	Yc	L.T.	S.T.	Δ_c	T	L	R	E	
I-29																
20002											19° 15′ 48.71″ LT	848.54′	1,681.06′	5,000.00′	71.49′	
20003											84° 18′ 50.50″ RT	2,245.34′	3,649.46′	2,480.00′	865.44′	
20004											27° 05′ 15.00″ RT	686.53′	1,347.38′	2,850.00′	81.52′	
I-480																
21001											4° 39′ 55.33″ LT	154.80′	309.42′	3,800.00′	3.15′	
WB W Broadway																
71001											33° 45′ 16.93″ RT	242.71′	471.30′	800.00′	36.01′	
71002											20° 46′ 17.42″ LT	146.62′	290.02′	800.00′	13.33′	
EB W Broadway																
74001											21° 31′ 26.59″ RT	152.06′	300.53′	800.00′	14.32′	
NB Frontage Rd.																
80001											1° 02′ 51.41″ RT	45.71′	91.42′	5,000.00′	0.21′	
80002											14° 41′ 14.80″ LT	463.96′	922.84′	3,600.00′	29.77′	
80003											5° 08′ 47.46″ RT	89.88′	179.65′	2,000.00′	2.02′	
80005											9° 07′ 28.77″ LT	79.80′	159.26′	1,000.00′	3.18′	
80006											9° 39′ 15.74″ RT	84.45′	168.50′	1,000.00′	3.56′	
80007											5° 20′ 28.51″ RT	46.65′	93.22′	1,000.00′	1.09′	
80008											15° 33′ 04.96″ RT	273.10′	542.85′	2,000.00′	18.56′	
SB Frontage Rd.																
90001											8° 01′ 01.32″ LT	210.23′	419.77′	3,000.00′	7.36′	
90002											14° 59′ 07.77″ LT	131.52′	261.55′	1,000.00′	8.61′	
90003											36° 07′ 15.13″ RT	260.87′	504.34′	800.00′	41.46′	
9th Ave.																
30002											47° 27′ 39.58″ RT	87.92′	165.67′	200.00′	18.47′	
Dodge Riverside Dr.																
40001											23° 15′ 20.07″ RT	68.52′	135.16′	333.00′	6.98′	
40002											33° 05′ 22.35″ LT	98.92′	192.31′	333.00′	14.38′	
40003											45° 45′ 40.45″ RT	140.53′	265.96′	333.00′	28.44′	
40004											9° 32′ 27.67″ RT	158.56′	316.39′	1,900.00′	6.60′	
40005											43° 52′ 13.04″ RT	134.10′	254.97′	333.00′	25.99′	
40006											65° 15′ 12.04″ LT	213.18′	379.25′	333.00′	62.39′	
8th to 6th Conn.																
81001											94° 01′ 32.62″ RT	80.46′	123.08′	75.00′	35.00′	
81002											86° 24′ 54.64″ RT	70.45′	113.12′	75.00′	27.90′	
4th to 3rd Conn.																
84001											83° 20′ 33.52″ RT	66.76′	109.10′	75.00′	25.41′	
84002											2° 32′ 45.66″ LT	81.09′	162.15′	3,649.00′	0.90′	
84003											98° 35′ 57.34″ RT	87.19′	129.07′	75.00′	40.01′	
Benson St. (cds)																
95000											39° 13′ 51.12″ LT	50.61′	97.23′	142.00′	8.75′	
6th Ave. Alley																
81101											34° 57′ 27.65″ RT	15.74′	30.51′	50.00′	2.42′	
81102											90° 06′ 12.55″ RT	25.05′	39.32′	25.00′	10.39′	
3rd Ave. Alley																
84101											42° 06′ 48.04″ RT	21.75′	41.53′	56.50′	4.04′	
84102											100° 54′ 17.18″ RT	35.12′	51.07′	29.00′	16.55′	
W 2nd Ave.																
42001											63° 02′ 53.98″ LT	30.67′	55.02′	50.00′	8.66′	
Shared Used Path																
ETRL2											89° 48′ 52.00″ LT	54.82′	86.22′	55.00′	22.66′	
ETRL3											29° 27′ 45.00″ RT	47.33′	92.56′	180.00′	6.12′	
ETRL4											48° 00′ 09.00″ RT	51.20′	96.35′	115.00′	10.88′	
ETRL5											20° 06′ 12.00″ LT	35.45′	70.17′	200.00′	3.12′	
ETRL6											53° 31′ 25.00″ RT	50.43′	93.42′	100.00′	12.00′	

SPIRAL OR CIRCULAR CURVE DATA (RAMPS)

101-17
04-19-11

Name	Location	Δ_{scs}	Horizontal Alignment Data												Remarks
			Spiral Data								Curve Data				
			θs	Ls	Ts	Es	Xc	Yc	L.T.	S.T.	Δ_c	T	L	R	E	
9th St. Ramp A															
31001											12° 50′ 47.04″ LT	394.02′	784.74′	3,500.00′	22.11′	
31002											0° 47′ 27.29″ LT	8.13′	16.25′	1,177.32′	0.03′	
9th St. Ramp C																
33000											6° 27′ 26.61″ LT	129.75′	259.22′	2,300.00′	3.66′	
33001											6° 27′ 26.61″ RT	112.82′	225.41′	2,000.00′	3.18′	
9th St. Ramp D																
34001											7° 53′ 00.24″ LT	124.03′	247.66′	1,800.00′	4.27′	
40th St. Ramp B																
72001											14° 36′ 53.29″ LT	256.47′	510.15′	2,000.00′	16.38′	
40th St. Ramp C																
73000											22° 08′ 54.77″ LT	371.88′	734.47′	1,900.00′	36.05′	
73001											20° 50′ 17.68″ RT	147.10′	290.96′	800.00′	13.41′	
Ave. G Ramp A																
61001											55° 44′ 46.42″ RT	423.10′	778.36′	800.00′	104.99′	
Ave. G Ramp D																
64001											13° 54′ 41.78″ RT	122.00′	242.80′	1,000.00′	7.41′	
64002											21° 34′ 29.47″ RT	476.33′	941.38′	2,500.00′	44.97′	
I-480 Ramp A																
51001											55° 15′ 21.05″ LT	436.00′	803.34′	833.00′	107.20′	
I-480 Ramp C																
53000											13° 55′ 24.97″ LT	293.06′	583.23′	2,400.00′	17.83′	
53001											90° 41′ 05.42″ LT	1,214.43′	1,899.30′	1,200.00′	507.29′	
53002											2° 42′ 48.70″ RT	90.97′	181.91′	3,841.00′	1.08′	
I-480 Ramp F																
56001											67° 08′ 42.72″ LT	796.45′	1,406.29′	1,200.00′	240.26′	
56002											28° 30′ 17.23″ RT	337.84′	661.68′	1,330.00′	42.24′	
I-480 Ramp H																
58001											13° 59′ 21.11″ LT	294.45′	585.98′	2,400.00′	18.00′	
58002											100° 00′ 54.81″ LT	1,430.49′	2,094.71′	1,200.00′	667.16′	
58003											6° 29′ 36.43″ RT	213.92′	427.38′	3,771.00′	6.06′	

SPIRAL OR CIRCULAR CURVE DATA (WALLS)

101-17
04-19-11

Name	Location	Δ_{scs}	Horizontal Alignment Data												Remarks
			Spiral Data								Curve Data				
			θs	Ls	Ts	Es	Xc	Yc	L.T.	S.T.	Δ_c	T	L	R	E	
Wall #2020																
20203											3° 42′ 24.85″ LT	159.30′	318.48′	4,922.58′	2.58′	
20204											12° 37′ 35.12″ LT	263.93′	525.72′	2,385.58′	14.56′	
Wall #2060																
20600											1° 53′ 43.64″ RT	41.68′	83.36′	2,519.69′	0.34′	
20601											15° 49′ 47.59″ RT	350.47′	696.47′	2,520.85′	24.25′	
Wall# 3140																
31400											9° 16′ 05.46″ LT	282.86′	564.48′	3,489.58′	11.44′	
31401											7° 34′ 00.05″ LT	77.16′	154.11′	1,166.90′	2.55′	
31402											7° 02′ 26.77″ LT	71.70′	143.23′	1,165.55′	2.20′	
Wall #3430																
34301											7° 53′ 00.24″ LT	124.61′	248.82′	1,808.42′	4.29′	
34306											0° 37′ 41.15″ LT	13.30′	26.59′	2,425.67′	0.04′	
Wall #5370																
53700											4° 05′ 08.40″ LT	42.38′	84.73′	1,188.25′	0.76′	
53701											0° 53′ 29.01″ LT	9.25′	18.51′	1,189.58′	0.04′	
Wall #5650																
56500											10° 22′ 01.10″ RT	119.71′	238.76′	1,319.58′	5.42′	
56501											4° 44′ 41.67″ RT	54.62′	109.18′	1,318.42′	1.13′	
Wall #5832																
58321											9° 39′ 44.86″ LT	199.94′	398.94′	2,365.58′	8.43′	
58322											0° 41′ 11.89″ LT	14.17′	28.33′	2,364.25′	0.04′	

FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER G.11

9:45:26 AM 10/26/2017 mplummer pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\78029166-G.sht

PARCEL	OWNER
400	City of Council Bluffs
401	Bass Courtyard, L.L.C., a Nebraska limited liability company
402	Four T Properties, LLC
404	Harvey's Iowa Management Company, Inc.

Exising Permanent Easement

505+15±P
℄ 175'

505+15±
℄ 160'
(Ex. R/W Corner)

KANE TWP
T-75 R-44W
SEC.33

508+00
℄ 175'

511+00
℄ 210'

514+50
℄ 210'

516+00
℄ 197'±
(Ex. R/W)

404

405

505

510

515

9TH AVE. RAMP C

I-29(ML029)

SB FRONTAGE RD.

9TH AVE.

NB FRONTAGE RD.

9TH AVE. RAMP B

505+18±
℄ 160'
(Ex. R/W Corner)

Existing Permanent Easement

505+18±P
℄ 190'

509+19±P
℄ 178'

510+00
℄ 183'

511+00
℄ 186'

512+39±P
℄ 187'

513+74±
℄ 198'
(Ex. R/W Corner)

508+75
℄ 190'

509+19±P
℄ 190'

509+19±P
℄ 230'

512+39±P
℄ 200'

512+38±P
℄ 230'

512+65
℄ 200'±R/W

400

401

402

403A

407

TEMPORARY EASEMENT TO SHAPE

TEMPORARY EASEMENT TO RELOCATE BERM

TEMPORARY EASEMENT TO SHAPE

BROWN'S SUBDIVISION

BLOCK 43

BLOCK 44

AKSHAR SUBDIVISION

LOT 2

LOT 1

LOT 3

SWAMI

BROWN'S SUBDIVISION 2

BLOCK 46

9TH AVENUE

0 50
FEET

NOTE:
See HE Sheets for additional right of way information.

Right of Way Design Information

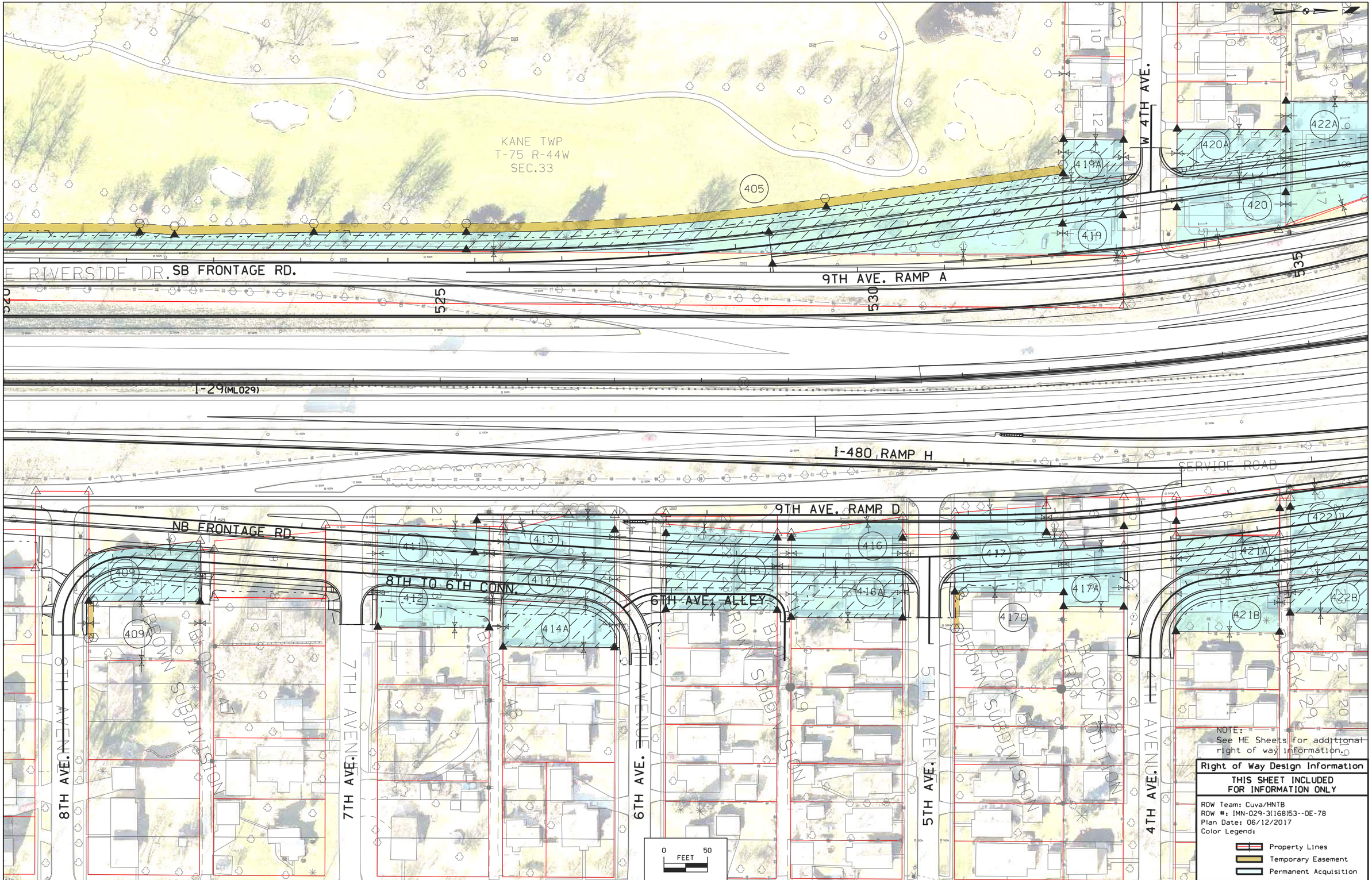
THIS SHEET INCLUDED FOR INFORMATION ONLY

ROW Team: Cuva/HNTB
ROW #: IMN-029-3(168)53--0E-78
Plan Date: 06/12/2017
Color Legend:

- Property Lines
- Temporary Easement
- Permanent Acquisition

FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER	H.1

9:53:04 AM 10/26/2017 mplummer pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\78029166-H.sht



NOTE:
See HE Sheets for additional right of way information.

Right of Way Design Information

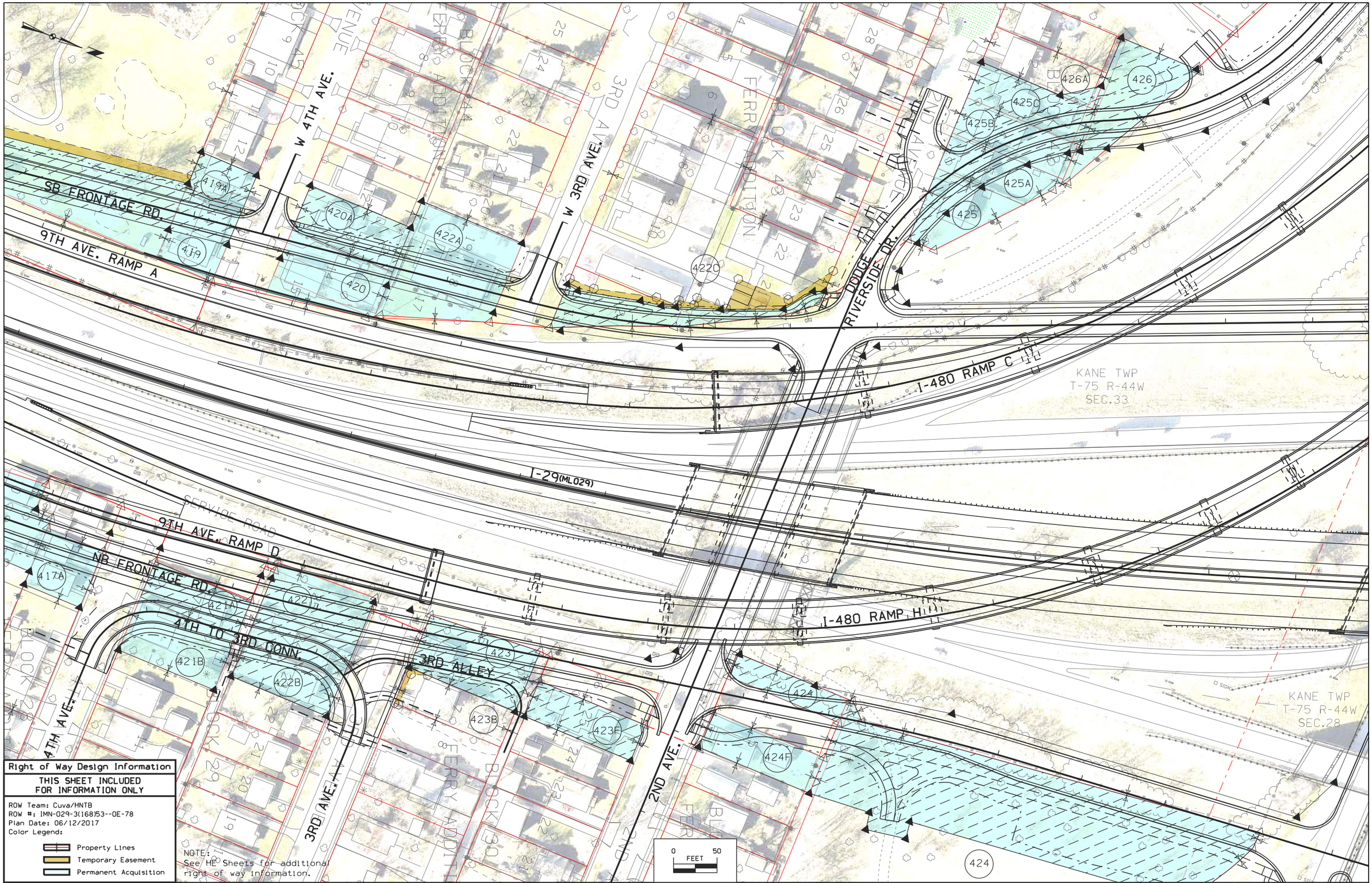
THIS SHEET INCLUDED FOR INFORMATION ONLY

ROW Team: Cuva/HNTB
ROW #: IMN-029-3(168)53--OE-78
Plan Date: 06/12/2017
Color Legend:

- Property Lines
- Temporary Easement
- Permanent Acquisition

FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER	H.2

3:26:34 PM 10/26/2017 mplummer pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\78029166-H.sht



Right of Way Design Information

THIS SHEET INCLUDED FOR INFORMATION ONLY

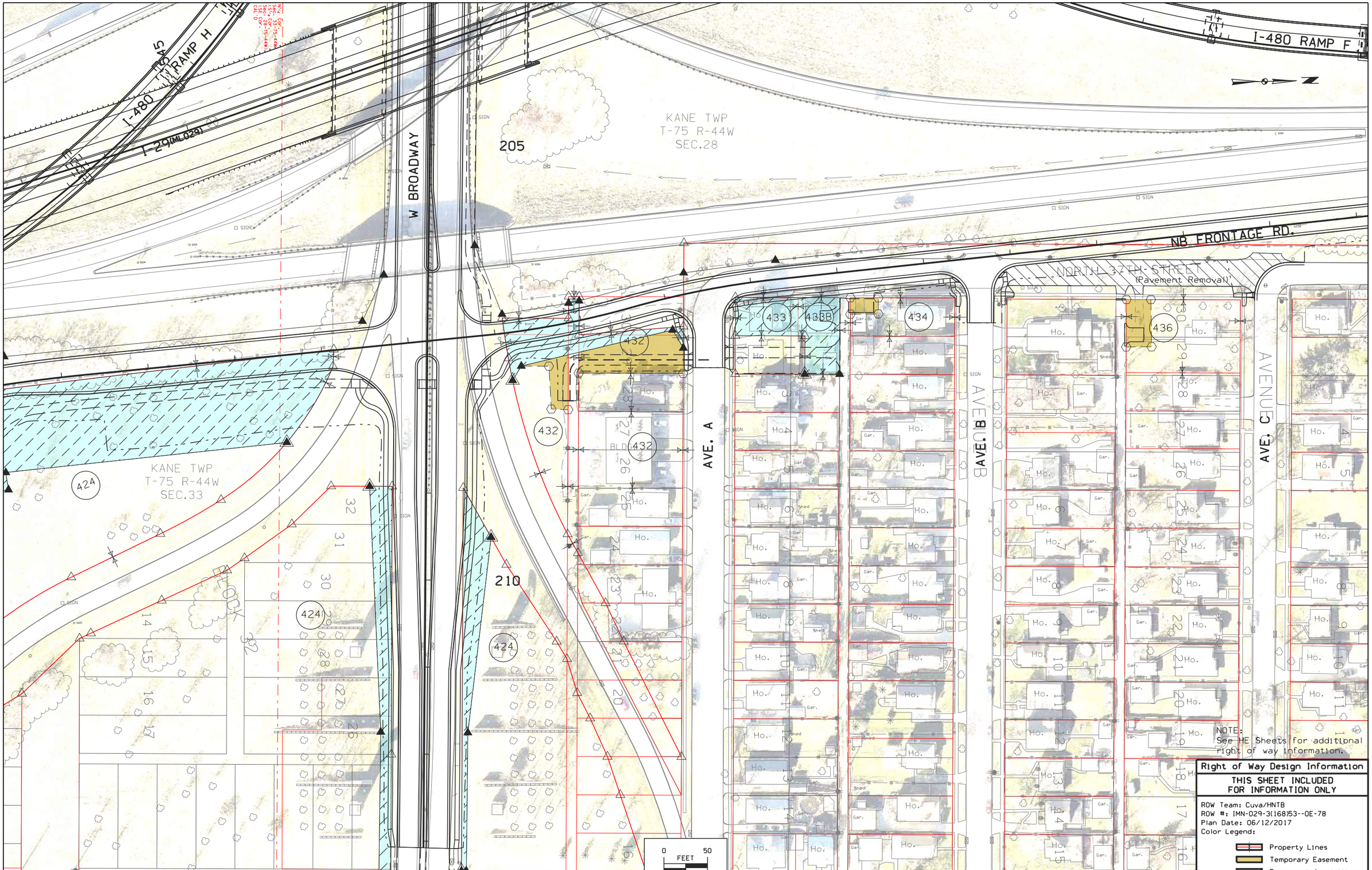
ROW Team: Cuva/HNTB
ROW #: IMN-029-3(168)53--0E-78
Plan Date: 06/12/2017
Color Legend:

- Property Lines
- Temporary Easement
- Permanent Acquisition

NOTE:
See HE Sheets for additional right of way information.

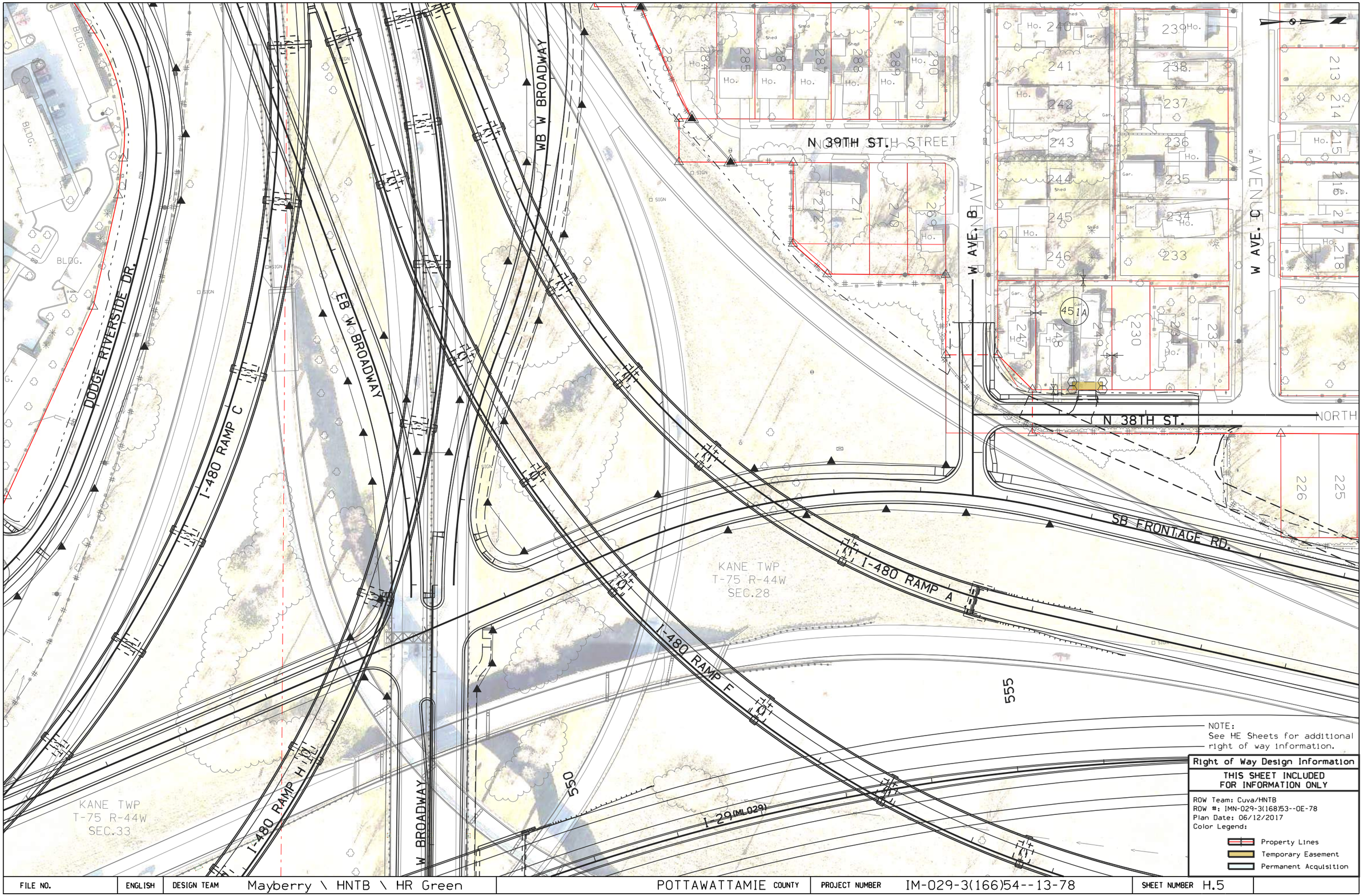
FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER H.3

3:32:50 PM 10/26/2017 mplummer pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\78029166-H.sht



FILE NO.	ENGLISH	DESIGN TEAM Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER IM-029-3(166)54--13-78	SHEET NUMBER H.4

3:36:36 PM 10/26/2017 mplummer pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\78029166-H.sht



NOTE:
See HE Sheets for additional right of way information.

Right of Way Design Information

THIS SHEET INCLUDED FOR INFORMATION ONLY

ROW Team: Cuva/HNTB
ROW #: IMN-029-3(168)53--0E-78
Plan Date: 06/12/2017
Color Legend:

- Property Lines
- Temporary Easement
- Permanent Acquisition

FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER	H.5

9:53:24 AM 10/26/2017 mplummer pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\78029166-H.sht

W AVE. D

452

457

BENSON ST.

I-480 RAMP A

560

SB FRONTAGE RD.

565

I-29(ML029)

VACATED STUART ST.

AVE. G RAMP A

VACATED STUART ST.

570

AVE. G

I-480 RAMP F

KANE TWP
T-75 R-44W
SEC.28

NB FRONTAGE RD.

NORTH 37TH STREET

37TH ST.

AVE. D

AVE. E

WILLOW

443A

443

444

445

446

447

448

AVE. G RAMP D

0 FEET 50

NOTE:
See HE Sheets for additional right of way information.

Right of Way Design Information

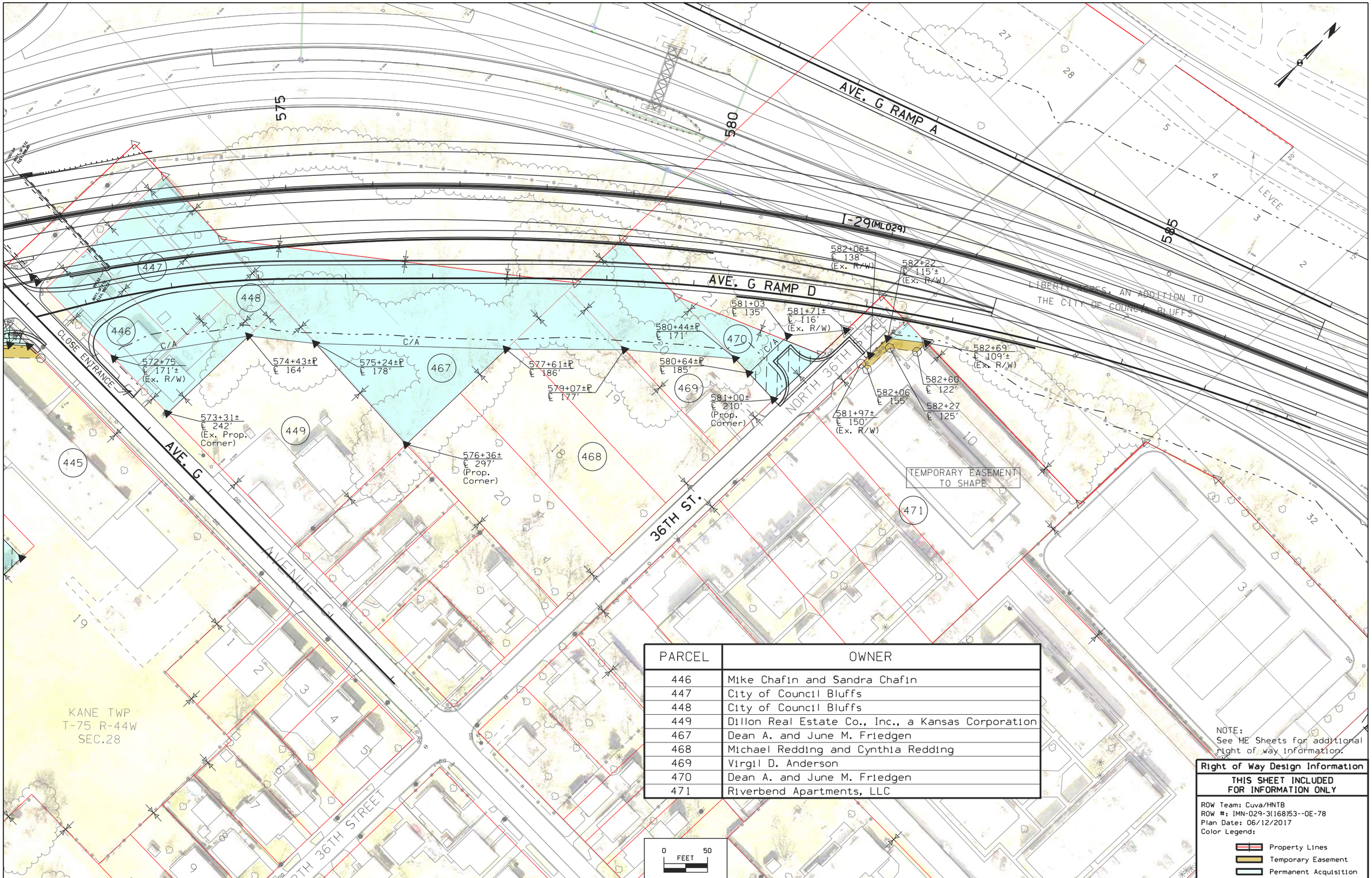
THIS SHEET INCLUDED FOR INFORMATION ONLY

ROW Team: Cuva/HNTB
ROW #: IMN-029-3(168)53--0E-78
Plan Date: 06/12/2017
Color Legend:

- Property Lines
- Temporary Easement
- Permanent Acquisition

FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER	H.6

3:38:41 PM 10/26/2017 mplummer pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\78029166-H.sht



PARCEL	OWNER
446	Mike Chafin and Sandra Chafin
447	City of Council Bluffs
448	City of Council Bluffs
449	Dillon Real Estate Co., Inc., a Kansas Corporation
467	Dean A. and June M. Friedgen
468	Michael Redding and Cynthia Redding
469	Virgil D. Anderson
470	Dean A. and June M. Friedgen
471	Riverbend Apartments, LLC

NOTE:
See HE Sheets for additional right of way information.

Right of Way Design Information

THIS SHEET INCLUDED FOR INFORMATION ONLY

ROW Team: Cuva/HNTB
ROW #: IMN-029-3(168)53--0E-78
Plan Date: 06/12/2017
Color Legend:

- Property Lines
- Temporary Easement
- Permanent Acquisition

FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER H.7

9:53:33 AM 10/26/2017 mplummer pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\78029166-H.sht

KANE TWP
T-75 R-44W
SEC.33

KANE TWP
T-75 R-44W
SEC.28

BLOCK 7

BLOCK 6

BLOCK 2

BLOCK 3

BLOCK 5

429A

429

428

427

I-480

40TH ST. RAMP C

I-480 RAMP H

I-480 RAMP C

40TH ST. RAMP B

DODGE RIVERSIDE DR.

40TH ST.

WB W BROADWAY

EB W BROADWAY

I-480 RAMP A

I-480 RAMP F

176
177
178
179
180
181
182
183
184
185
186
187
188
189
190
191
192
193
194
195

BLDG.

0 FEET 50

NOTE:
See HE Sheets for additional right of way information.

Right of Way Design Information

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ROW Team: Cuva/HNTB
ROW #: IMN-029-3(168)53--0E-78
Plan Date: 06/12/2017
Color Legend:

- Property Lines
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- Permanent Acquisition

FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER	H.8

9:53:38 AM 10/26/2017 mplummer pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\78029166-H.sht

PARCEL	OWNER
403A	3312 West Broadway Properties, LLC, an Iowa limited liability company
407	Danco II 1512 Council Bluffs, LLC, a Nebraska limited liability company

TEMPORARY EASEMENT TO CONSTRUCT SIDEWALK, INLET, & SHAPE

FUEL STORAGE ACCESS (TYP)

DO NOT DISTURB EXIST. SIGN AND FOOTINGS

DO NOT DISTURB STORAGE TANK ACCESS AND VALVES

3010+05± ℄ 62′ (Ex. R/W)

3010+75 ℄ 62′

3010+75 ℄ 44′

3011+80 ℄ 34′± (Ex. R/W)

3010+04± ℄ 46′ (Ex. R/W)

3010+20 ℄ 40′

REMOVE EXISTING LIGHT POLE

REMOVE ENTRANCE

3010+70 ℄ 35′± (Ex. R/W)

W=28′

3010+25 ℄ 40′

3010+25 ℄ 55′

3011+05 ℄ 31′± (Ex. R/W)

3011+05 ℄ 37′

3010+95 ℄ 55′

3011+80± ℄ 32′ (Ex. Prop. Corner)

3011+80±℄ 37′

3010+03± ℄ 53′ (Ex. R/W)

3010+02± ℄ 100′ (Ex. R/W)

+67 Prop. Type "B" Case 1 Ent.

TEMPORARY EASEMENT TO SHAPE & CONSTRUCT ENTRANCE, SIDEWALK

0 20 FEET

Right of Way Design Information

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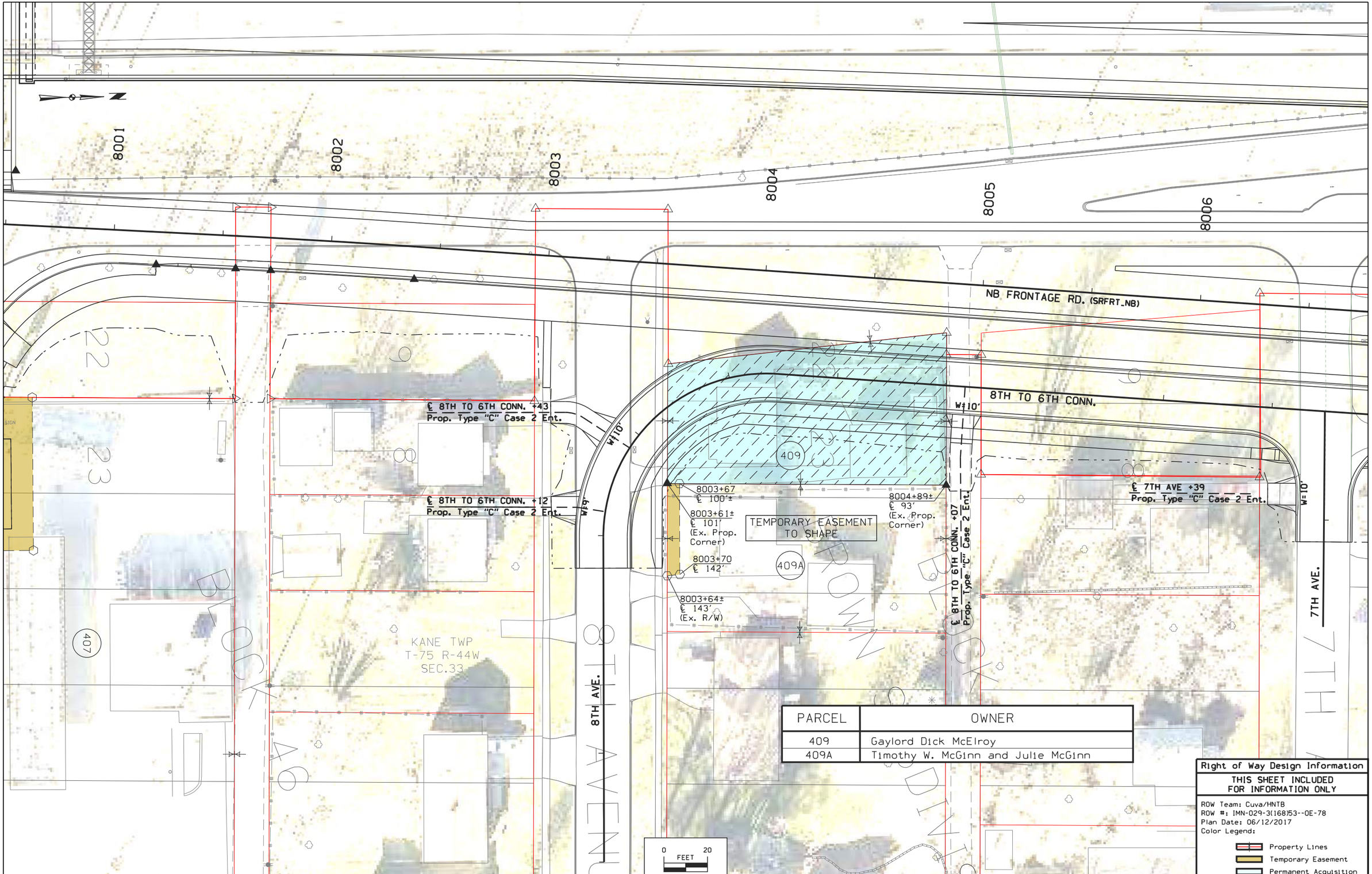
ROW Team: Cuva/HNTB
ROW #: IMN-029-3(168)53--0E-78
Plan Date: 06/12/2017
Color Legend:

Property Lines
Temporary Easement
Permanent Acquisition

FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER HE.1

9:53:45 AM 10/26/2017 mplummer pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\78029166-HE.sht



PARCEL	OWNER
409	Gaylord Dick McElroy
409A	Timothy W. McGinn and Julie McGinn

Right of Way Design Information

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ROW Team: Cuva/HNTB
ROW #: IMN-029-3(168)53--OE-78
Plan Date: 06/12/2017
Color Legend:

- Property Lines
- Temporary Easement
- Permanent Acquisition

FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER	HE.2

9:53:48 AM 10/26/2017 mplummer pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\78029166-HE.sht

I-480 RAMP H

8007 8008 8009 8010 8011 8012 8013

9TH AVE. RAMP D

8010+18±℄ 22'

8011+47±℄ 22'

C/A

STR LINE

NB FRONTAGE RD. (SRFRT_NB)

8TH TO 6TH CONN.

W=10'

W=14'

W=12'

6TH ALLEY

6TH AVE.

411 412 413 414 414A 415 416 416A

℄ 8TH TO 6TH CONN. +42
Prop. Type "C" Case 2 Ent.

℄ 8TH TO 6TH CONN. +15
Prop. Type "C" Case 2 Ent.

8006+95±
℄ 108'
(Ex. Prop. Corner)

8008+22±
℄ 100'
(Ex. Prop. Corner)

8008+40±
℄ 121'
(Ex. Prop. Corner)

8009+68±
℄ 113'
(Ex. Prop. Corner)

8010+23±
℄ 65'
(Ex. Prop. Corner)

8011+48±
℄ 61'
(Ex. Prop. Corner)

8011+64±
℄ 69'
(Ex. Prop. Corner)

8012+90±
℄ 69'
(Ex. Prop. Corner)

KANE TWP
T-75 R-44W
SEC.33

PARCEL	OWNER
411	Richard P. Redman
412	Robert J. SR. and Cynthia S. Eckes
413	Richard A. Swanger
414	Florida V. Dizon Bilello
414A	Ygnacio C. Meza and Davine R. Meza
415	John M. Roth and Beverly A. Roth
416	Patrick S. Opal
416A	Wesley D. and Sandra C. Franks

0 20
FEET

Right of Way Design Information

THIS SHEET INCLUDED FOR INFORMATION ONLY

ROW Team: Cuva/HNTB
ROW #: IMN-029-3(168)53--0E-78
Plan Date: 06/12/2017
Color Legend:

Property Lines
Temporary Easement
Permanent Acquisition

FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER HE.3

9:53:52 AM 10/26/2017 mplummer pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\78029166-HE.sht

I-480 RAMP H

SERVICE ROAD

9TH AVE. RAMP D

NB FRONTAGE RD.(SRTFRT_NB)

8013

8014

8015

8016

8017

8018

417

417A

417C

421A

421B

422

422B

8013+60
℄ 42'±

8013+55
℄ 45'

8013+50±
℄ 41'
(Ex. Prop. Corner)

8013+53
℄ 83'

8013+48±
℄ 83'
(Ex. R/W)

8014+73±
℄ 48'
(Ex. Prop. Corner)

8014+72±
℄ 64'
(Ex. Prop. Corner)

8015+39±
℄ 70'
(Ex. Prop. Corner)

8015+95±
℄ 104'
(Ex. Prop. Corner)

8017+10±
℄ 119'
(Ex. Prop. Corner)

8017+24±
℄ 98'
(Ex. Prop. Corner)

8017+41±P
℄ 22'

8018+38±
℄ 117'
(Ex. Prop. Corner)

8018+63±P
℄ 22'

STR LINE

C/A

TEMPORARY EASEMENT TO SHAPE

℄ 4TH TO 3RD CONN. +12
Prop. Type "C" Case 2 Ent.

℄ 4TH TO 3RD CONN. +11
Prop. Type "C" Case 2 Ent.

4TH TO 3RD CONN.

W=10'

W=20'

W=110'

5TH AVE.

4TH AVE.

3RD AVE.

KANE TWP
T-75 R-44W
SEC.33

PARCEL	OWNER
417	Lloyd W. Groat's Revokable Living Trust
417A	Jeffrey A. and Tracy A. Rice
417C	Jeffrey J. and Shirley Marie Juhl
421A	BGC Corp. an Iowa Corporation
421B	Leonard C. and Kaye A. Swanson
422	Norma F. Golden
422B	Mark Colburn Olmstead

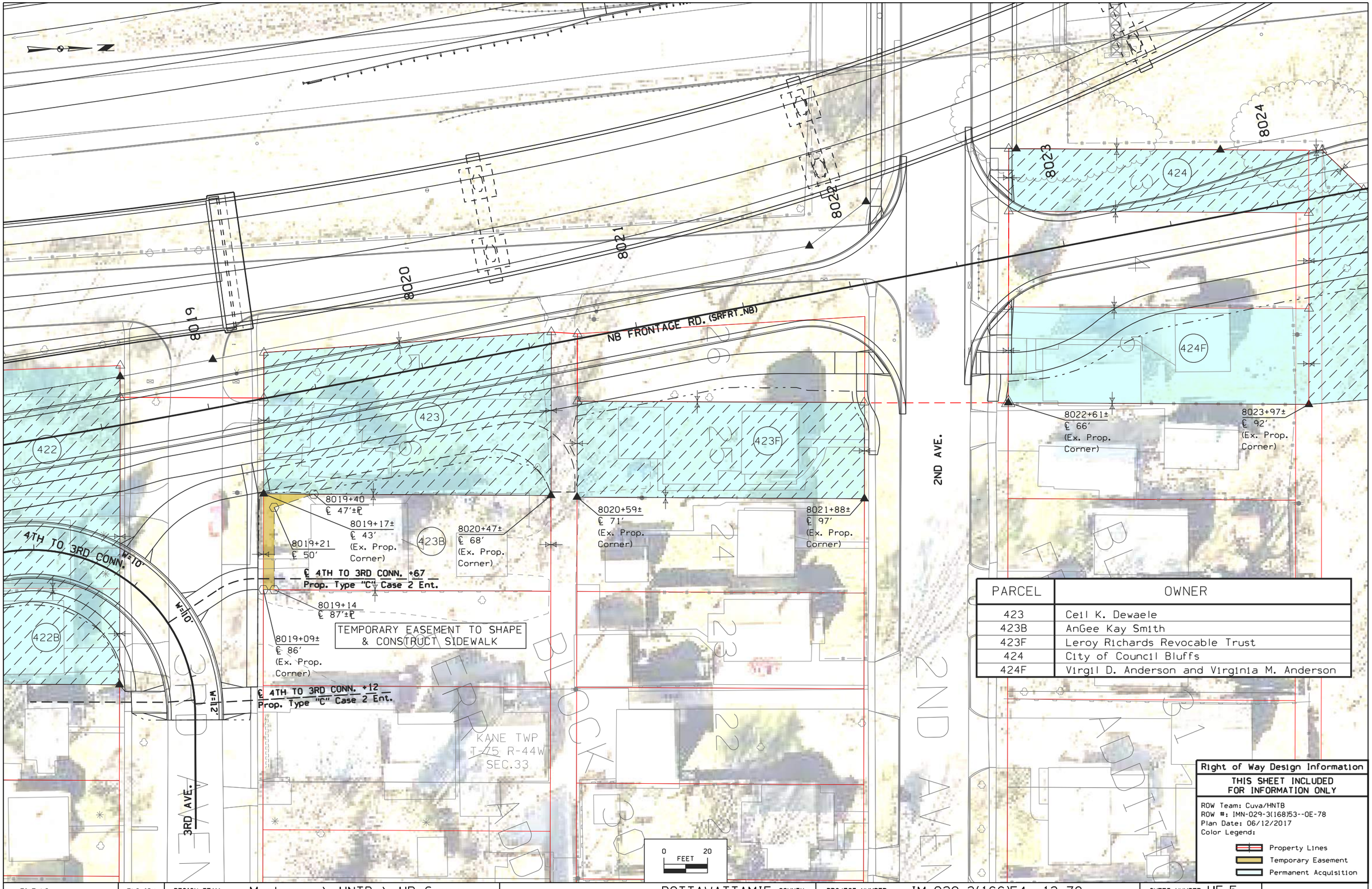
0 20
FEET

Right of Way Design Information

THIS SHEET INCLUDED FOR INFORMATION ONLY

ROW Team: Cuva/HNTB
ROW #: IMN-029-3(168)53--0E-78
Plan Date: 06/12/2017
Color Legend:

Property Lines
Temporary Easement
Permanent Acquisition



PARCEL	OWNER
423	Ceil K. Dewaele
423B	AnGee Kay Smith
423F	Leroy Richards Revocable Trust
424	City of Council Bluffs
424F	Virgil D. Anderson and Virginia M. Anderson

Right of Way Design Information

THIS SHEET INCLUDED FOR INFORMATION ONLY

ROW Team: Cuva/HNTB
ROW #: IMN-029-3(168)53--0E-78
Plan Date: 06/12/2017
Color Legend:

- Property Lines
- Temporary Easement
- Permanent Acquisition

FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER HE.5

9:53:59 AM 10/26/2017 mplummer pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\78029166-HE.sht

8025
8026
8027
8028
8029
8030
NB FRONTAGE RD. (SRFRT_NB)
8023+97±
℄ 92'
(Ex. Prop.
Corner)
8024+70
℄ 100'
8024+70
℄ 120'
8025+20
℄ 100'
8025+20
℄ 120'
8028+50±
℄ 100'
(Ex. R/W)
424
KANE TWP
T-75 R-44W
SEC.33
KANE TWP
T-75 R-44W
SEC.28
W BROADWAY
32
31
30
SIGN

PARCEL	OWNER
424	City of Council Bluffs

0 20
FEET

Right of Way Design Information

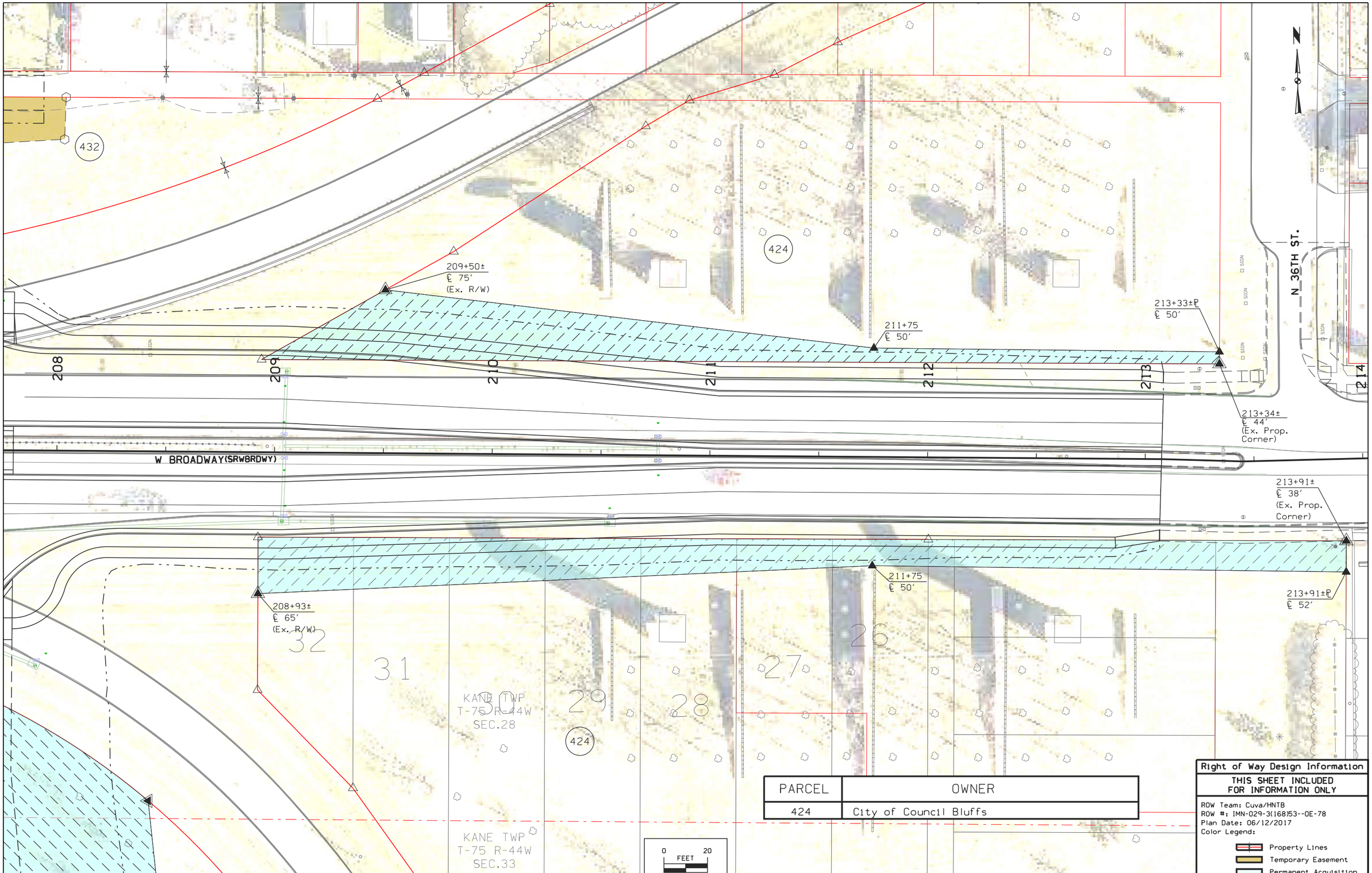
THIS SHEET INCLUDED
FOR INFORMATION ONLY

ROW Team: Cuva/HNTB
ROW #: IMN-029-3(168)53--0E-78
Plan Date: 06/12/2017
Color Legend:

Property Lines
Temporary Easement
Permanent Acquisition

FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER HE.6

9:54:03 AM 10/26/2017 mplummer pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\78029166-HE.sht



PARCEL	OWNER
424	City of Council Bluffs

Right of Way Design Information

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ROW Team: Cuva/HNTB
ROW #: IMN-029-3(168)53--0E-78
Plan Date: 06/12/2017
Color Legend:

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- Permanent Acquisition

FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER HE.7

9:54:06 AM 10/26/2017 mplummer pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\78029166-HE.sht

8031
8032
8033
8034
8035
8036
NB FRONTAGE RD. (SRFRT_NB)
C/A STR LINE
8031+90±P
℄ 22'
8032+03±P
℄ 22'
8033+00
℄ 37'
8033+08±
℄ 60'
(Ex. R/W)
℄ AVE A +81 Prop.
Type "C" Case 2 Ent.
8031+25
℄ 40'
8031+55
℄ 45'
8031+13±
℄ 55'
(Ex. R/W)
8031+50
℄ 94'
8031+86±
℄ 59'
(Ex. Lot
Corner)
8033+00±
℄ 88'
(Ex. Lot
Corner)
8031+67±P
℄ 98'
TEMPORARY EASEMENT TO
SHAPE & CONSTRUCT ENTRANCE
W=12'
AVE. A
W BROADWAY
CLOSE ALLEY
CLOSE ENTRANCE
8035+12±
℄ 30'
(Ex. Prop.
Corner)
26'
Type "C" Ent.
(Gravel)
W=16'
PROPOSED ENTRANCE
8035+44
℄ 34'±℄
8035+42
℄ 52'
8035+10
℄ 49'±℄
TEMPORARY EASEMENT TO
SHAPE & CONSTRUCT ENTRANCE
℄ AVE A +73 Prop.
Type "C" Case 2 Ent.
8034+51±
℄ 112'
(Ex. Prop.
Corner)
8034+90±
℄ 116'
(Ex. Prop.
Corner)
AVE. B
KANE TWP
T-75 R-44W
SEC.28
432
433
433B
434
2732
2826
2827
2828
0 20
FEET

PARCEL	OWNER
432	Shawn T Russell and Donna L Russell
433	Series A of Coats Investments, LLC
433B	George E. and Linda M. Hicks
434	Ronald and Sharon Peterson

Right of Way Design Information

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ROW Team: Cuva/HNTB
ROW #: IMN-029-3(168)53--0E-78
Plan Date: 06/12/2017
Color Legend:

Property Lines
Temporary Easement
Permanent Acquisition

FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER HE.8

9:54:09 AM 10/26/2017 mplummer pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\78029166-HE.sht

8037 8038 8039 8040 8041 8042

NB FRONTAGE RD.(SRFRT_NB)

NORTH 37TH STREET

N. 37TH ST.

CLOSE ALLEY

CLOSE ENTRANCE

(Pavement Removal)

8038+27±
℄ 66'
(Ex. Prop.
Corner)

8038+55
℄ 69'±
(Ex. R/W)

22'

W=16'

Type "C" Ent.
(Gravel)

8038+50
℄ 123'

8038+21±P
℄ 120'

436

TEMPORARY EASEMENT TO
CONSTRUCT ENTRANCE

AVE. B

AVE. C

AVENUE C

KANE TWP.
T-75 R-44W
SEC.28

28 26 25 5 1

PARCEL	OWNER
436	MAC Investments, Inc.

0 20
FEET

Right of Way Design Information

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ROW Team: Cuva/HNTB
ROW #: IMN-029-3(168)53--0E-78
Plan Date: 06/12/2017
Color Legend:

Property Lines
Temporary Easement
Permanent Acquisition

FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER HE.9

9:54:13 AM 10/26/2017 mplummer pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\78029166-HE.sht

AVE. G (SRAVEG)

6006 | 6007 | 6008 | 6009 | 6010 | 6011

AVENUE C

8052

8051

8050

8049

993.81

BOTT. OF FTG ELEV. 991.81

8052+71±
℄ 61'
(Ex. R/W)

8052+66±
℄ 42'
(Ex. R/W)

8052+47
℄ 30'

8052+25
℄ 22'

8052+20
℄ 32'

8052+02±℄
℄ 23'

445

TEMPORARY EASEMENT TO CONSTRUCT ENTRANCE, CURB, & SHAPE

Type "B" Case 1 Ent.

CLOSE ENTRANCE

8051+05
℄ 62'

8051+13
℄ 93'

8050+98±℄
℄ 97'

8051+41±
℄ 251'
(Ex. Prop. Corner)

8050+86±
℄ 52'
(Ex. Prop. Corner)

KANE TWP
T-75 R-44W
SEC.28

444

443

443A

8050+20±
℄ 276'
(Ex. Prop. Corner)

8049+75±
℄ 74'
(Ex. Prop. Corner)

8049+79±℄
℄ 94'

℄ 37TH ST +85 Prop.
Type "C" Case 2 Ent.

W=18'

N. 37TH ST.

NB FRONTAGE RD. (SRFRT_NB)

8049+45
℄ 100'

8049+42
℄ 88'

8049+25±℄
℄ 91'

8049+24±
℄ 82'
(Ex. Prop. Corner)

TEMPORARY EASEMENT TO CONSTRUCT ENTRANCE & SIDEWALK

0 FEET 20

1 2 3 19

*66 Res. Ent.

PARCEL	OWNER
443	Brian H. Kohlhaas and Alexandra A. Kohlhaas
443A	Angel Zepeda Arreola
444	Ruben Toledo
445	Prospect Park Baptist Church

NOTE:
ALL STATIONS AND OFFSETS FROM NB FRONTAGE RD. UNLESS OTHERWISE NOTED.

Right of Way Design Information

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ROW #: IMN-029-3(168)53--0E-78
Plan Date: 06/12/2017
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FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER HE.10

9:54:17 AM 10/26/2017 mplummer pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\78029166-HE.sht

PARCEL	OWNER
405	City of Council Bluffs
404	Harvey's Iowa Management Company, Inc.

KANE TWP
T-75 R-44W
SEC.33

405

404

TEMPORARY EASEMENT
TO SHAPE

TEMPORARY EASEMENT
TO SHAPE

DO NOT DISTURB TREES

DO NOT DISTURB TREE

3001+45
℄ 34'±
(Ex. R/W)

3001+90
℄ 34'±
(Ex. R/W)

3002+60
℄ 50'

3002+60
℄ 60'

3003+15
℄ 62'

3003+20
℄ 52'

3003+40
℄ 80'

3003+45
℄ 70'

3004+95
℄ 36'±
(Ex. R/W)

3005+20
℄ 37'±
(Ex. R/W)

3005+38±
℄ 62'
(Ex. R/W)

3005+49±
℄ 50'
(Ex. R/W)

3005+50
℄ 90'

3005+50
℄ 80'

3001

3002

3003

3004

3006

℄ 3006

9TH AVE. (SR9TH)

9TH AVE. RAMP C

SB FRONTAGE RD.

CLOSE
ENTRANCE

0 20
FEET

Right of Way Design Information

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ROW Team: Cuva/HNTB
ROW #: IMN-029-3(168)53--0E-78
Plan Date: 06/12/2017
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FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER HE.11

9:54:21 AM 10/26/2017 mplummer pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\78029166-HE.sht

PARCEL	OWNER
405	City of Council Bluffs

KANE TWP
T-75 R-44W
SEC.33

405

TEMPORARY EASEMENT
TO SHAPE

9001+05
℄ 45'

9001+00
℄ 35'

9001

9002

9003

9000

C/A

SB FRONTAGE RD. (SRFRT_SB)

9001+00
℄ 15'

DODGE RIVE

I-29

SIGN

0 FEET 20

Right of Way Design Information

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FOR INFORMATION ONLY

ROW Team: Cuva/HNTB
ROW #: IMN-029-3(168)53--0E-78
Plan Date: 06/12/2017
Color Legend:

- Property Lines
- Temporary Easement
- Permanent Acquisition

FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER HE.12

9:54:24 AM 10/26/2017 mplummer pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\78029166-HE.sht

PARCEL	OWNER
405	City of Council Bluffs

KANE TWP
T-75 R-44W
SEC.33

405

9004+15
℄ 45′
9004+15
℄ 35′
DO NOT DISTURB TREES
9004+55
℄ 42′
9004+55
℄ 32′
DO NOT DISTURB TREES
9006+15
℄ 45′
9006+15
℄ 35′
DO NOT DISTURB TREES
TEMPORARY EASEMENT
TO SHAPE
9007+90±PC
℄ 45′
DO NOT DISTURB TREES
DO NOT DISTURB TREES
CONCENTRIC R=2955′
CONCENTRIC R=2965′
CONCENTRIC R=2985′

9004 9005 9006 9007 9008 9009

C/A C/A C/A

9007+90±PC
℄ 15′
9007+90±PC
℄ 35′

SB FRONTAGE RD.(SRFRT_SB)

RSIDE DR.

I-29

0 20
FEET

Right of Way Design Information

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ROW Team: Cuva/HNTB
ROW #: IMN-029-3(168)53--0E-78
Plan Date: 06/12/2017
Color Legend:

- Property Lines
- Temporary Easement
- Permanent Acquisition

FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER HE.13

9:54:27 AM 10/26/2017 mplummer pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\78029166-HE.sht

PARCEL	OWNER
405	City of Council Bluffs
419	Brian S. Scoles and Jamie N. Emerson
419A	RE Rental Properties, LLC, an Iowa limited liability company

KANE TWP
T-75 R-44W
SEC.33

TEMPORARY EASEMENT TO SHAPE

DO NOT DISTURB TREE

DO NOT DISTURB TREES

CONCENTRIC R=2955'

CONCENTRIC R=2965'

CONCENTRIC R=2985'

9010

9011

9012

9013

9014

9015

9012+10±PT
℄ 45'

9012+10±PT
℄ 35'

9011+40
℄ 15'

9011+40
℄ 22'

9014+90±
℄ 74'
(Ex. Prop. Corner)

9015+59±
℄ 63'
(Ex. Prop. Corner)

9014+86±℄
℄ 45'

9014+85±℄
℄ 35'

9015+46±℄
℄ 22'

9014+76±℄
℄ 22'

405

419A

419

C/A

STR LINE

SB FRONTAGE RD.(SRFRT_SB)

9TH ST. RAMP A

W 4TH AVE.

I-29

0 20
FEET

Right of Way Design Information

THIS SHEET INCLUDED FOR INFORMATION ONLY

ROW Team: Cuva/HNTB
ROW #: IMN-029-3(168)53--0E-78
Plan Date: 06/12/2017
Color Legend:

- Property Lines
- Temporary Easement
- Permanent Acquisition

FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER HE.14

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PARCEL	OWNER
420	Koy R. Behrens and Jessica L. Behrens
420A	John B. and Paula S. Dingman
422A	T-M Family LLC
422C	T-M Family LLC

KANE TWP
T-75 R-44W
SEC.33

W 3RD AVE.

SB FRONTAGE RD.(SRFRT_SB)

9TH AVE. RAMP A

I-480 RAMP C

I-29

9016+21±
℄ 68′
(Ex. Prop. Corner)

9017+50±
℄ 82′
(Ex. Prop. Corner)

9017+45±
℄ 49′
(Ex. Prop. Corner)

9018+73±
℄ 63′
(Ex. Prop. Corner)

DO NOT DISTURB
EXISTING UTILITY CABINETS

TEMPORARY EASEMENT TO
RECONFIGURE PARKING,
CONSTRUCT SIDEWALK, & SHAPE

DO NOT DISTURB TREE

9019+38±℄ 37′
9019+36±℄ 30′
9019+50
℄ 25′
9019+68
℄ 31′

9020+50
℄ 22′
9020+43
℄ 31′
9020+25
℄ 25′
9020+68
℄ 24′
9020+67
℄ 22′
9020+70
℄ 30′
9020+91
℄ 34′
9020+88
℄ 26′

9021+40
℄ 57′
9021+98
℄ 33′
9021+93
℄ 22′
9021+26
℄ 23′
9021+20
℄ 22′

9022+50
℄ 65′±℄
9022+40±℄
℄ 42′
9022+27
℄ 42′

STR LINE
(Removal)

0 20
FEET

Right of Way Design Information

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FOR INFORMATION ONLY

ROW Team: Cuva/HNTB
ROW #: IMN-029-3(168)53--0E-78
Plan Date: 06/12/2017
Color Legend:

- Property Lines
- Temporary Easement
- Permanent Acquisition

FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER HE.15

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PARCEL	OWNER
425	Oscar A. Hernandez Hernandez
425A	Bradley S. Knott and Janice I. Knott Trustees
425B	Robert J. and James R. Meyer
425C	Maria A. Rodarte
426	Pottawattamie County
426A	Old Lincoln Investments, LLC, an Iowa limited liability company

4014
4015
4016
4017
4018
4019
4020
C/A
STR LINE
4016+36±℄ 32'
4016+70±℄ 32'
4016+86±℄ 32'
4017+39±℄ 32'
4018+04±℄ 32'
4018+60 ℄ 32'
4019+13±℄ 32'
4015+14± ℄ 36' (Ex. R/W Corner)
4016+07± ℄ 94' (Ex. Prop. Corner)
4016+39±℄ 40'
4016+82±℄ 35'
4017+46± ℄ 97' (Ex. Prop. Corner)
425
425A
425B
425C
426
426A
427
I-480 RAMP C
SB FRONTAGE RD.
DODGE RIVERSIDE DR. (SRDODGE)
S 38TH ST.
W 2ND AVE.
KANE TWP
T-75 R-44W
SEC.33
W=12'
W=14'
W=18'
W=10'
℄ W 2ND AVE +41 Prop. Type "C" Case 2 Ent.
℄ W 2ND AVE +7 Prop. Type "C" Case 2 Ent.
℄ W 2ND AVE +23 Prop. Type "C" Case 2 Ent.
℄ W 2ND AVE +92 Prop. Type "C" Case 2 Ent.
℄ W 2ND AVE +65 Prop. Type "C" Case 2 Ent.
0 20 FEET

Right of Way Design Information

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ROW Team: Cuva/HNTB
ROW #: IMN-029-3(168)53--0E-78
Plan Date: 06/12/2017
Color Legend:

- Property Lines
- Temporary Easement
- Permanent Acquisition

FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER HE.16

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I-480 RAMP C

2110

2111

2112

2113

2114

2115

40TH ST. RAMP B (40THB)

KANE TWP
T-75 R-44W
SEC.33

PARCEL	OWNER
427	River Park Apartments, LLC
428	Council Bluffs Apartments, LLC

POTENTIAL FUTURE TRAIL

DODGE RIVERSIDE DR. (SRDODGE)

W=128'

2109+65
℄ 141'±
(Ex. R/W)

DRAINAGE DETENTION AREA

428

2111+65
℄ 185'

2110+05
℄ 270'

2113+40
℄ 163'±
(Ex. R/W)

4001+67±
℄ 52'
(Ex. R/W)
Dodge
Riverside
Dr

℄ DODGE RIVERSIDE DR. +91 Prop. Type "B" Case 1 Ent.

4002+20
℄ 32'±
(Ex. R/W)
Dodge
Riverside
Dr

4002+20
℄ 52'
Dodge
Riverside
Dr

427

TEMPORARY EASEMENT TO CONSTRUCT ENTRANCE

0 20
FEET

NOTE:
ALL STATIONS AND OFFSETS FROM 40TH ST. RAMP B UNLESS OTHERWISE NOTED.

Right of Way Design Information

THIS SHEET INCLUDED FOR INFORMATION ONLY

ROW Team: Cuva/HNTB
ROW #: IMN-029-3(168)53--0E-78
Plan Date: 06/12/2017
Color Legend:

- Property Lines
- Temporary Easement
- Permanent Acquisition

FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER HE.17

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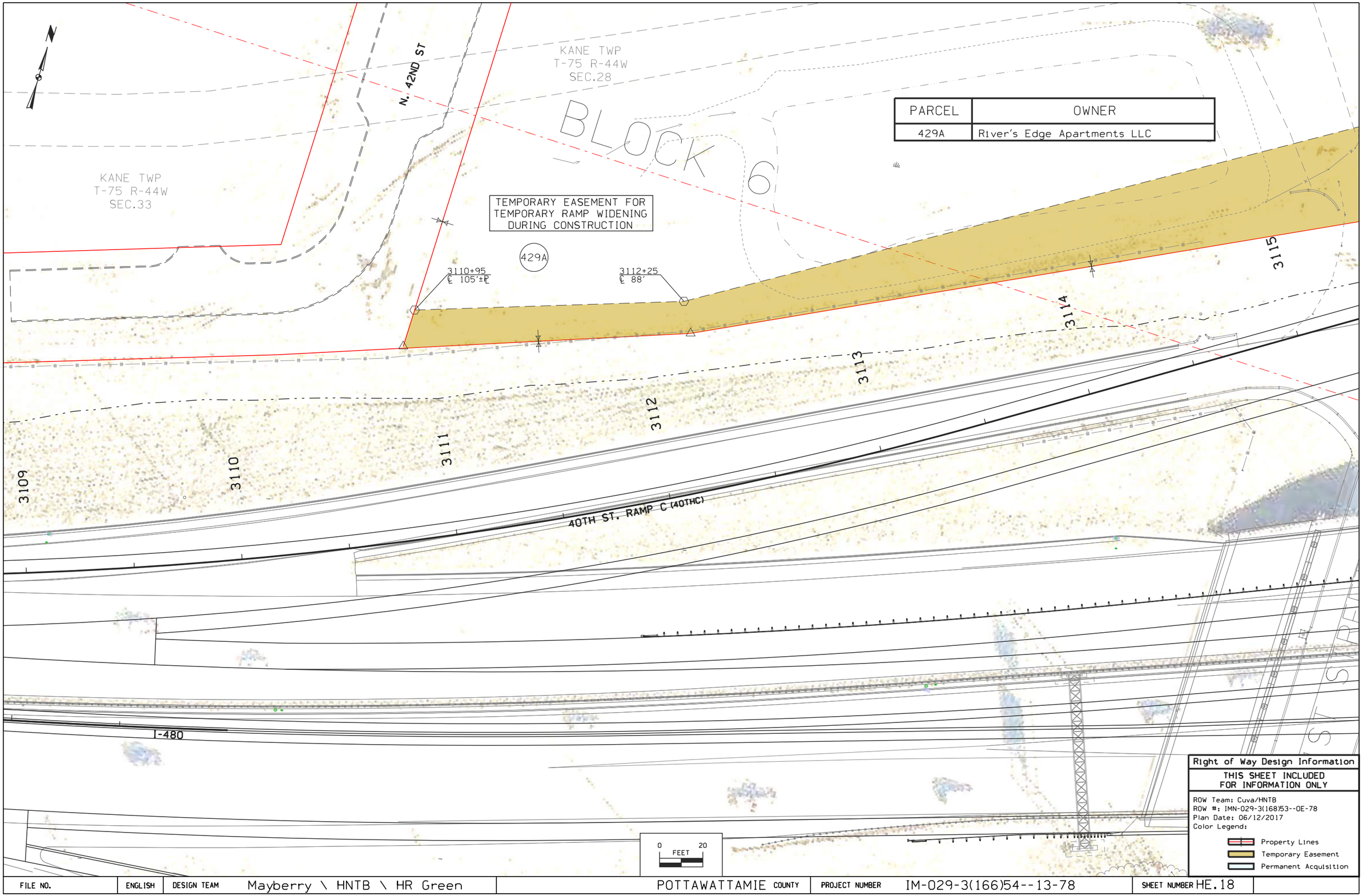

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9:54:47 AM 10/26/2017 mplummer pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\78029166-HE.sht

PARCEL	OWNER
429	City of Council Bluffs
429A	River's Edge Apartments LLC

TEMPORARY EASEMENT FOR TEMPORARY RAMP WIDENING DURING CONSTRUCTION

TEMPORARY EASEMENT TO SHAPE

BLOCK 5

429

429A

N. 41ST ST

KANE TWP
T-75 R-44W
SEC.28

3115+90
℄ 85'±℄

3116+45±
℄ 34'
(Ex. R/W Corner)

3116

3117

3118+15
℄ 36'±
(Ex. R/W)

3118

3119

3119+47±
℄ 34'
(Ex. R/W Corner)

3119+00
℄ 34'±
(Ex. R/W)

3120

180

181

182

183

184

185

186

40TH ST.

40TH ST. RAMP C (40THC)

WB W BROADWAY

0 20
FEET

Right of Way Design Information

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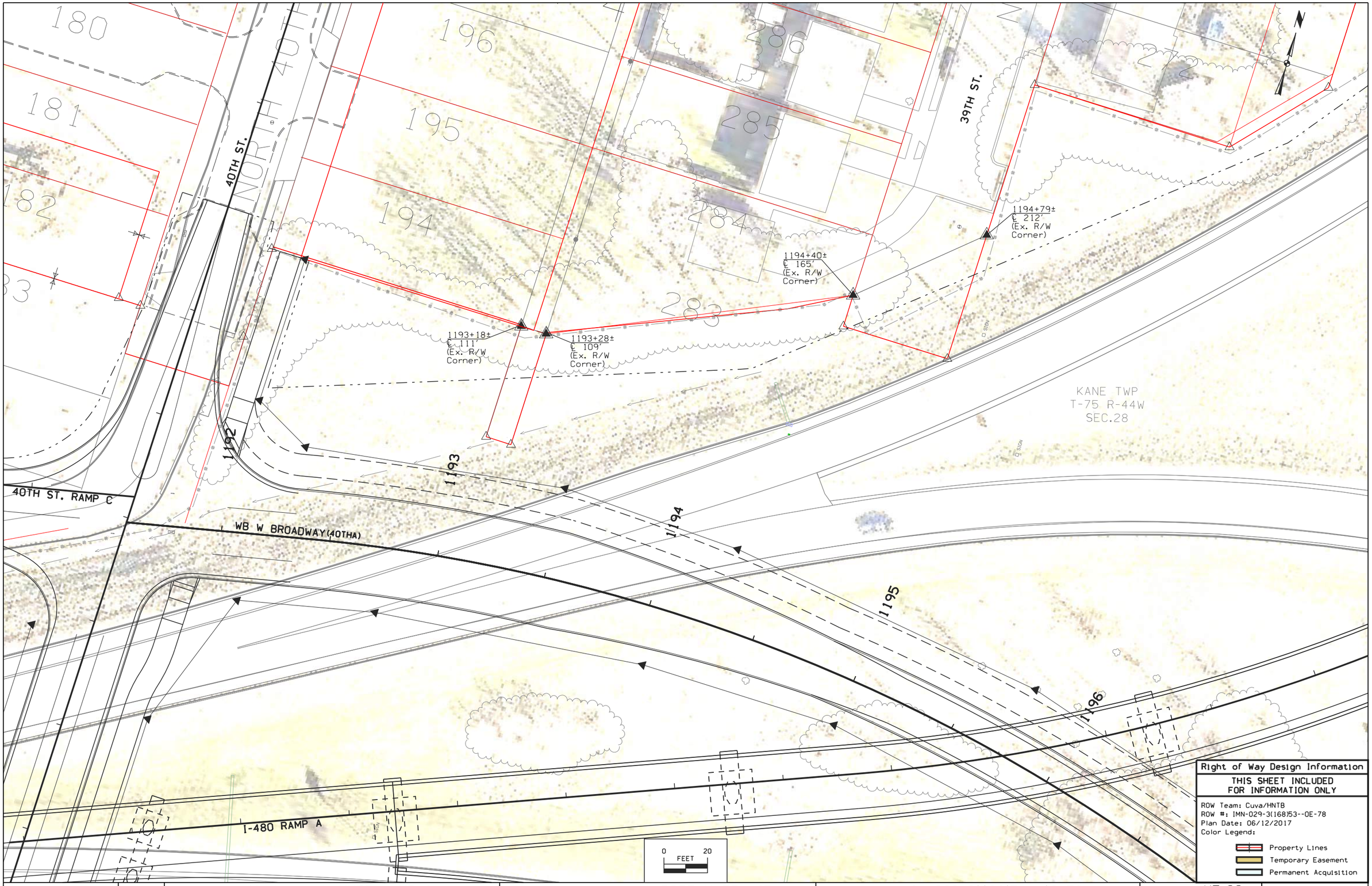
ROW Team: Cuva/HNTB
ROW #: IMN-029-3(168)53--0E-78
Plan Date: 06/12/2017
Color Legend:

- Property Lines
- Temporary Easement
- Permanent Acquisition

FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER HE.19

9:54:51 AM 10/26/2017 mplummer pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\78029166-HE.sht



Right of Way Design Information

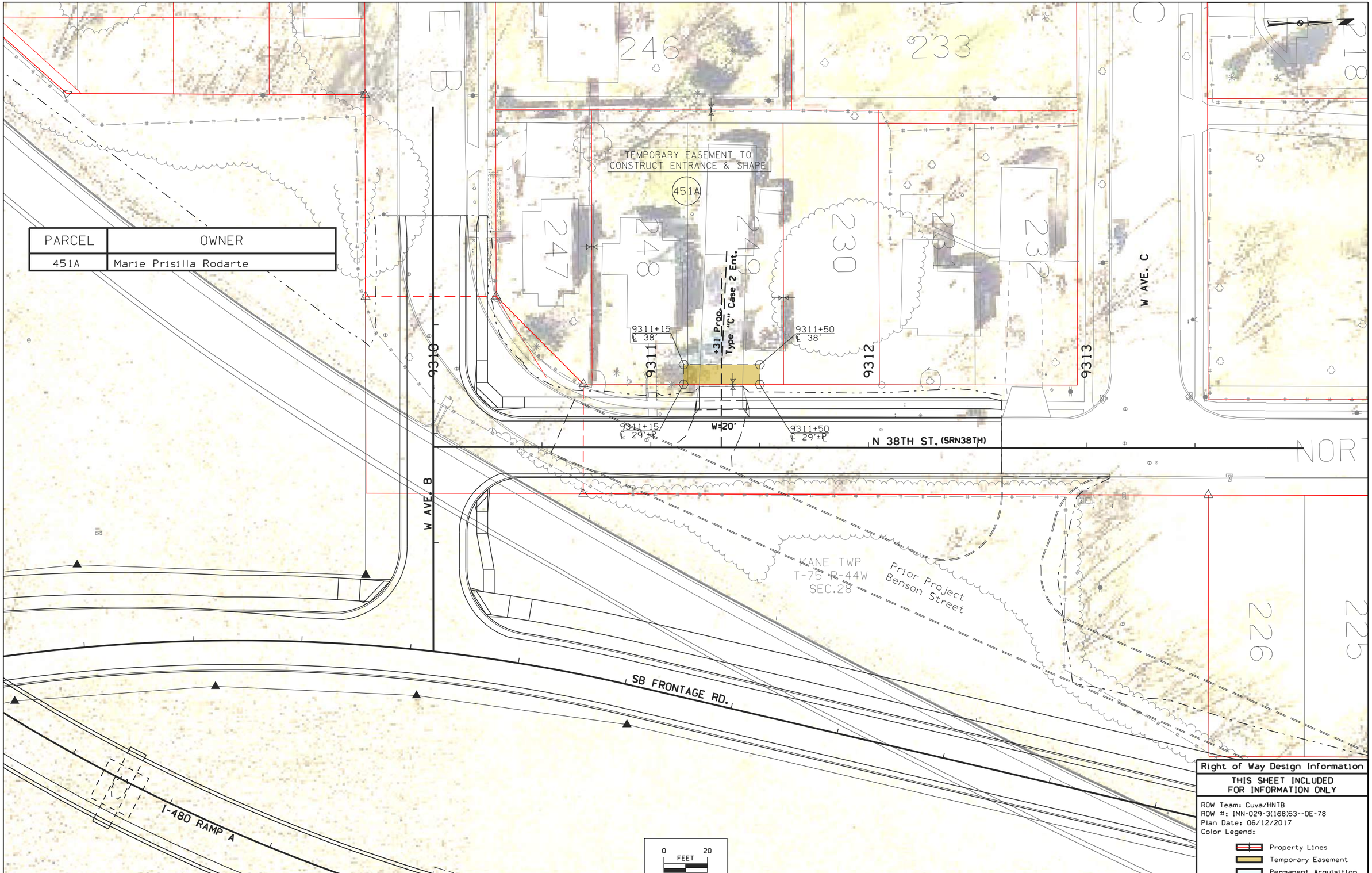
THIS SHEET INCLUDED FOR INFORMATION ONLY

ROW Team: Cuva/HNTB
ROW #: IMN-029-3(168)53--0E-78
Plan Date: 06/12/2017
Color Legend:

- Property Lines
- Temporary Easement
- Permanent Acquisition

FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER HE.20

9:54:55 AM 10/26/2017 mplummer pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\78029166-HE.sht



PARCEL	OWNER
451A	Marie Prisilla Rodarte

Right of Way Design Information

THIS SHEET INCLUDED FOR INFORMATION ONLY

ROW Team: Cuva/HNTB
ROW #: IMN-029-3(168)53--OE-78
Plan Date: 06/12/2017
Color Legend:

- Property Lines
- Temporary Easement
- Permanent Acquisition

FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER	HE.21

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PARCEL	OWNER
452	Aileen B. Steward and Kay Steinauer
457	Claude D. Pleas

AVENUE D

W. AVE. D

19 20 21 22 23 24 25 26 27 28

18 17 16 14 13 12 11 10

9044 9045 9046 9047 9048 9049

9045+80±
℄ 160'
(Ex. R/W
Corner)

9046+34±
℄ 169'
(Ex. R/W
Corner)

452

457

SB FRONTAGE RD. (SRFRT-SB)

BENSON ST.

KANE TWP
T-75 R-44W
SEC.28

C/A

9048+27±P
℄ 18'

9048+78±P
℄ 18'

0 20
FEET

Right of Way Design Information

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FOR INFORMATION ONLY

ROW Team: Cuva/HNTB
ROW #: IMN-029-3(168)53--0E-78
Plan Date: 06/12/2017
Color Legend:

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- Temporary Easement
- Permanent Acquisition

FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER HE.22

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108-23A
08-01-08

TRAFFIC CONTROL PLAN

Scenario 3 has been selected as the preferred construction staging scenario for this project, which allows for full closures of both I-29N and I-29S. An approximate construction schedule and conceptual staging plans are included in these plans for review.

Index (J-Sheets)
Sheet J.2-J.16 Scenario 3 Construction Staging Schedule and Concept

COLOR LEGEND OF TRAFFIC CONTROL AND STAGING SHEETS

Brown	Grading
Orange	Proposed Roadway Construction
Red	Proposed Bridge Construction
Purple	Proposed Temporary Pavement
Blue	Previously Constructed Roadway/Bridge

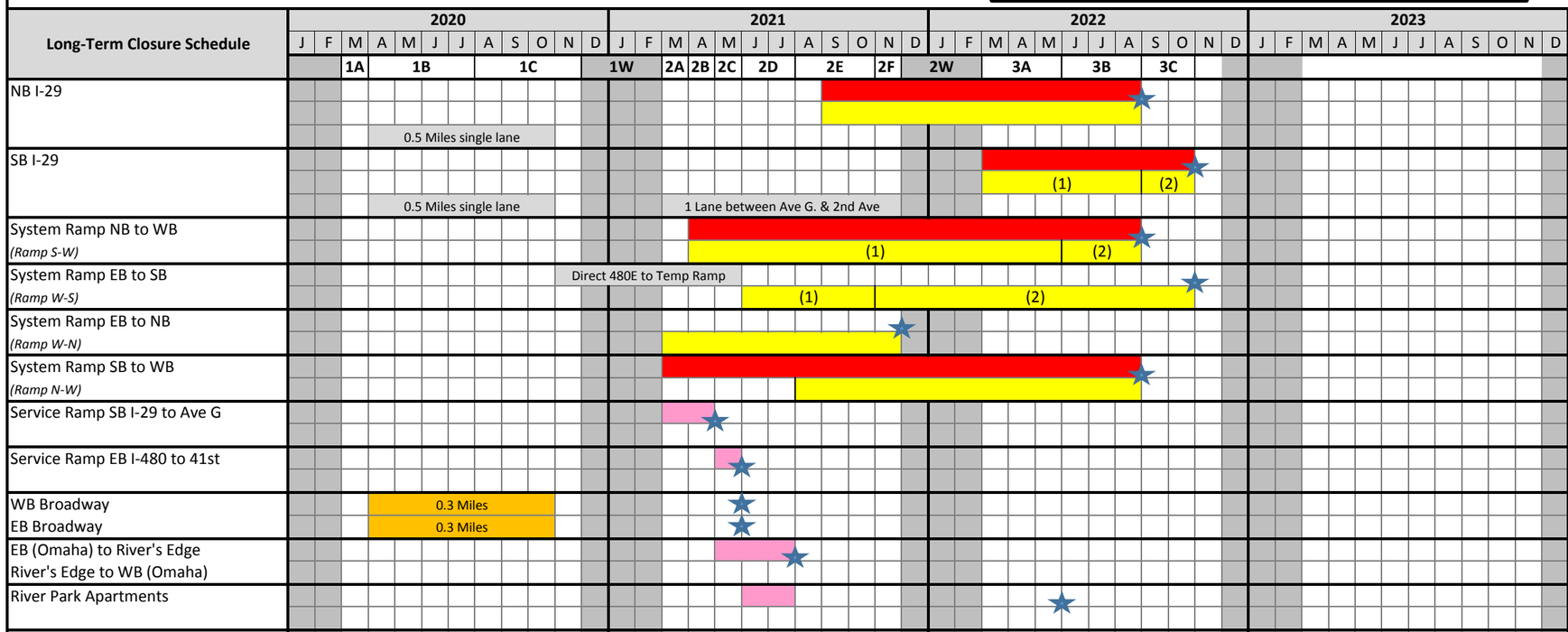
SCENARIO 3 - I-29 Full Closure
Construction Duration: 3 years
October 26, 2017

Guiding Design / MOT Principles

1. Reduce overall construction timeline to approximately 3 years
2. Reduce duration of traffic impacts, driver user costs, and safety risks
   a. Full closure of I-29 (NB & SB) allowed for efficiency of construction
   b. Construct NB/SB Frontage Roads before closing NB/SB I-29, respectively, to facilitate local detours
   c. Maintain connection to EB/WB W. Broadway
   d. Avoid single-lane head-to-head configurations on I-29
   e. Maintain access to Harrah's Casino and River's Edge Development as much as possible
3. Improve construction efficiency, reduce constructability issues, and minimize temporary construction

THIS SCHEDULE IS PRELIMINARY, SUBJECT TO CHANGE, AND CONTINGENT ON AVAILABLE FUNDING

LEGEND
- Length — Head to Head Traffic
- Local Street — Detoured within project
- Frontage Road — Detoured within project
- CLOSED — Global Detour
- Bridge Substructure Only
- Bridge Substructure & Superstructure
- ★ Completed and open to traffic



Long-Term Closure Schedule	Duration of Traffic Impact	Detour
NB I-29	12	*signed:* I-80E to I-680W, or I-80W to I-680E
	12	Completed NB Frontage Rd
	7	1 Lane north of G. Traffic separated on respective sides
SB I-29	8	*signed:* I-680E to I-80W, or I-680W to I-80E
	6+2	(1) SB Frontage Rd; (2) SB Frontage Rd or WB I-480 into Omaha
	16	Year 1: North of G; Year 2: 1 Lane between Ave G. & 2nd Ave.
System Ramp NB to WB	17	*signed:* I-80W to I-480N
(Ramp S-W)	14+3	(1) NB Frontage Rd/WB Broadway; (2) NB Frontage Rd/Flyover
System Ramp EB to SB	9	*Consider signing* I-480N/S to I-80E
(Ramp W-S)	5+12	(1) Exit 40th to Temp Ramp; (2) New Flyover to SB Frontage Rd
System Ramp EB to NB		*Consider signing* I-480N/S to I-80E
(Ramp W-N)	9	EB Broadway to NB Frontage Rd
System Ramp SB to WB	18	*signed:* I-29 SB to I-80 WB to I-480 NB
(Ramp N-W)	13	SB Frontage Rd to WB Broadway
Service Ramp SB I-29 to Ave G	2	Exit early 25th St to Ave G
Service Ramp EB I-480 to 41st	1	EB Broadway to 35th St/2nd Ave or NB Frontage/Ave G
WB Broadway	7	
EB Broadway	7	
EB (Omaha) to River's Edge	3	EB Broadway, NB Frontage, Ave G, 40th St
River's Edge to WB (Omaha)		
River Park Apartments	2	38th/3rd Ave Entrance. *Exploring alternatives.*

Bridge Construction	Bents	Area (S.Y.)	Notes	
1A	2	1614	SB I-29 over 9th Ave	No Skew, Tangent
1B	2	1614	NB I-29 over 9th Ave	No Skew, Tangent
2A	4	2320	SB I-29 over 2nd Ave	Skewed, Tangent
2B	4	2320	NB I-29 over 2nd Ave	Skewed, Tangent
3A	4	2718	SB I-29 over Broadway	Skewed, Tangent
3B	4	2718	NB I-29 over Broadway	Skewed, Tangent
4A	4	3165	SB I-29 over Ave G	Skewed, Curved
4B	4	3165	NB I-29 over Ave G	Skewed, Curved
5	3	2543	EB I-480 over 40th	Skewed, Curved, Var. Width
6	8.5	7107	W-S Ramp (EB to SB)	2 Units
7	9.5	6556	W-N Ramp (EB to NB)	Level 3, 3 Units
8	3	2081	WB I-480 over 40th	Skewed, Curved, Var. Width
9	13.5	10172	S-W Ramp (NB to WB)	2 Units, Var. Width
10	6.5	3765	N-W Ramp (SB to WB)	2 Units

CBIS Segment 4
Construction Staging
Scenario 3 Concept

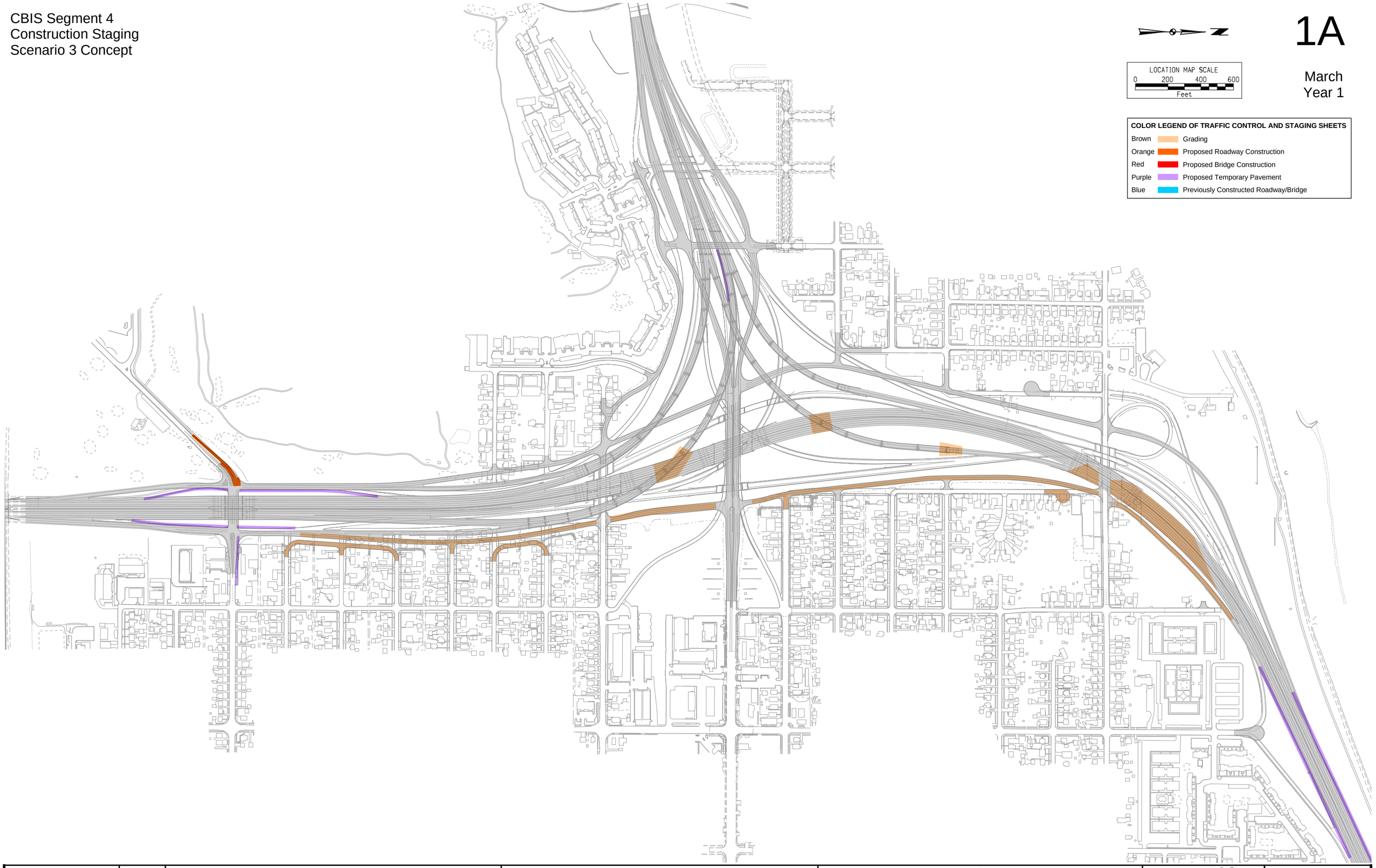
1A

March
Year 1

LOCATION MAP SCALE
0 200 400 600
Feet

COLOR LEGEND OF TRAFFIC CONTROL AND STAGING SHEETS

Brown	Grading
Orange	Proposed Roadway Construction
Red	Proposed Bridge Construction
Purple	Proposed Temporary Pavement
Blue	Previously Constructed Roadway/Bridge



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER J.3

CBIS Segment 4
Construction Staging
Scenario 3 Concept

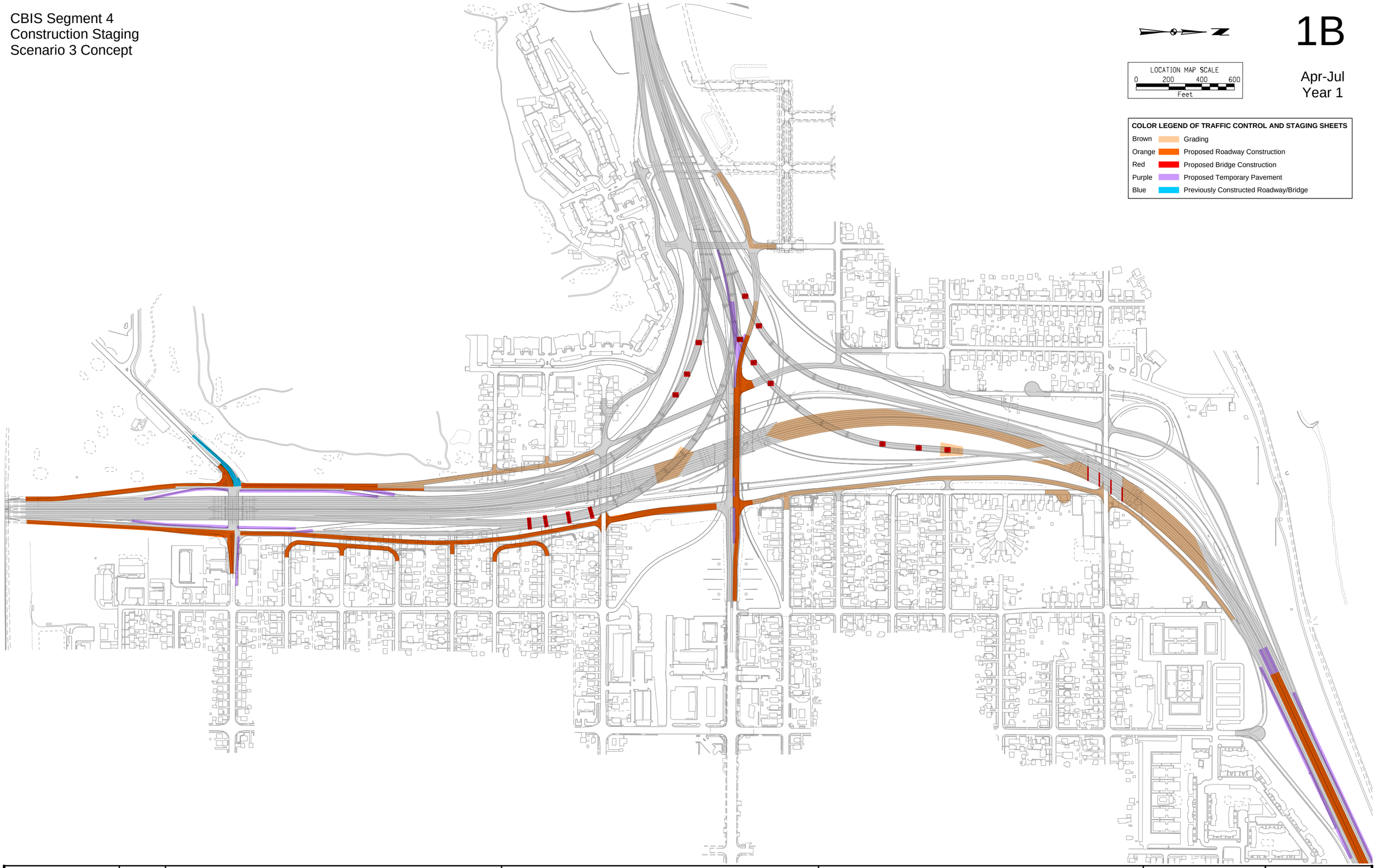
1B

Apr-Jul
Year 1

LOCATION MAP SCALE
0 200 400 600
Feet

COLOR LEGEND OF TRAFFIC CONTROL AND STAGING SHEETS

Brown	Grading
Orange	Proposed Roadway Construction
Red	Proposed Bridge Construction
Purple	Proposed Temporary Pavement
Blue	Previously Constructed Roadway/Bridge



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER J.4

CBIS Segment 4
Construction Staging
Scenario 3 Concept

1C

Aug-Nov
Year 1

LOCATION MAP SCALE
0 200 400 600
Feet

COLOR LEGEND OF TRAFFIC CONTROL AND STAGING SHEETS

Brown	Grading
Orange	Proposed Roadway Construction
Red	Proposed Bridge Construction
Purple	Proposed Temporary Pavement
Blue	Previously Constructed Roadway/Bridge

substage intersections

FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER	J.5

CBIS Segment 4
Construction Staging
Scenario 3 Concept

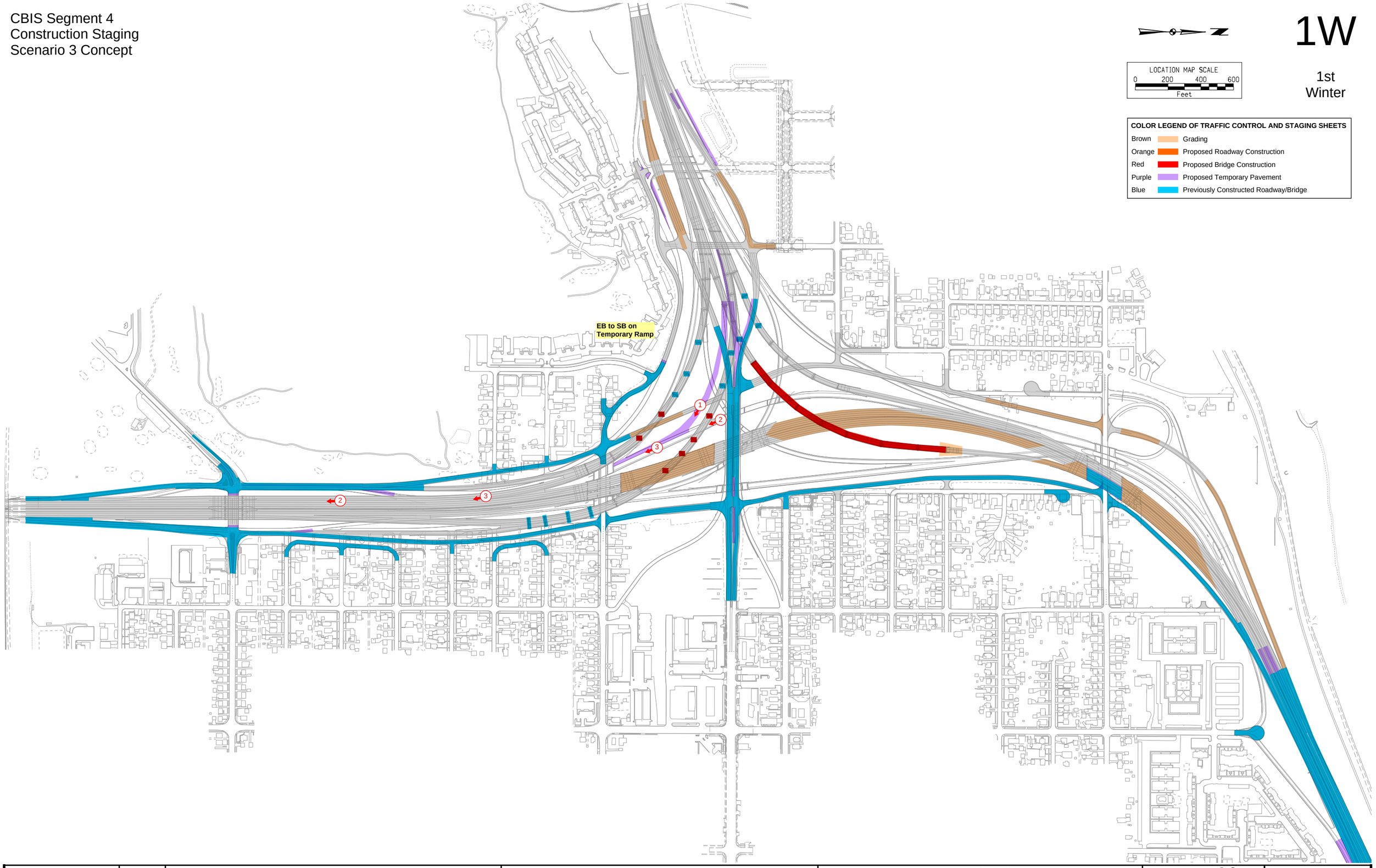
1W

1st
Winter

LOCATION MAP SCALE
0 200 400 600
Feet

COLOR LEGEND OF TRAFFIC CONTROL AND STAGING SHEETS

Brown	Grading
Orange	Proposed Roadway Construction
Red	Proposed Bridge Construction
Purple	Proposed Temporary Pavement
Blue	Previously Constructed Roadway/Bridge



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER J.6

CBIS Segment 4
Construction Staging
Scenario 3 Concept

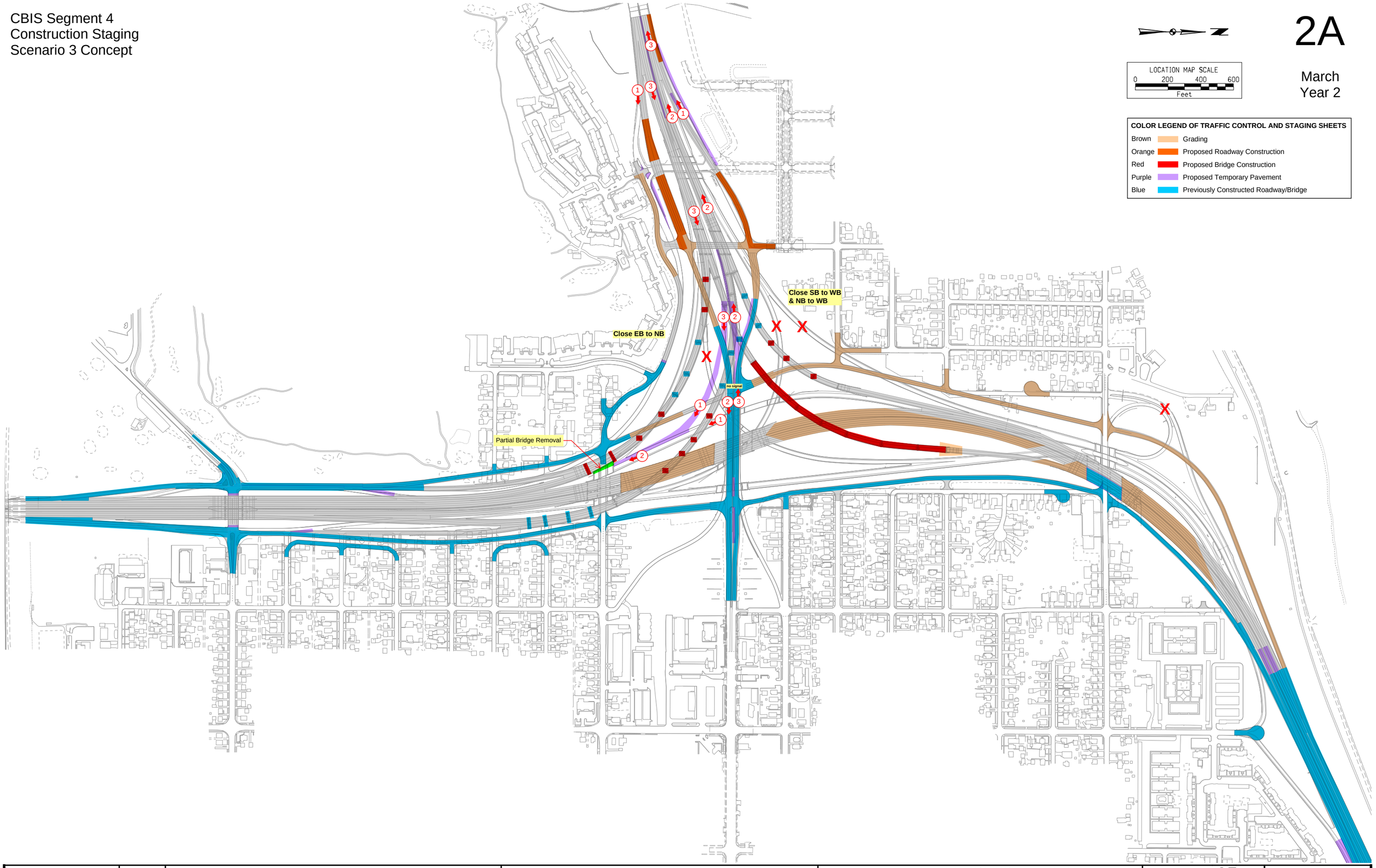
2A

March
Year 2

LOCATION MAP SCALE
0 200 400 600
Feet

COLOR LEGEND OF TRAFFIC CONTROL AND STAGING SHEETS

Brown	Grading
Orange	Proposed Roadway Construction
Red	Proposed Bridge Construction
Purple	Proposed Temporary Pavement
Blue	Previously Constructed Roadway/Bridge



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER J.7

CBIS Segment 4
Construction Staging
Scenario 3 Concept

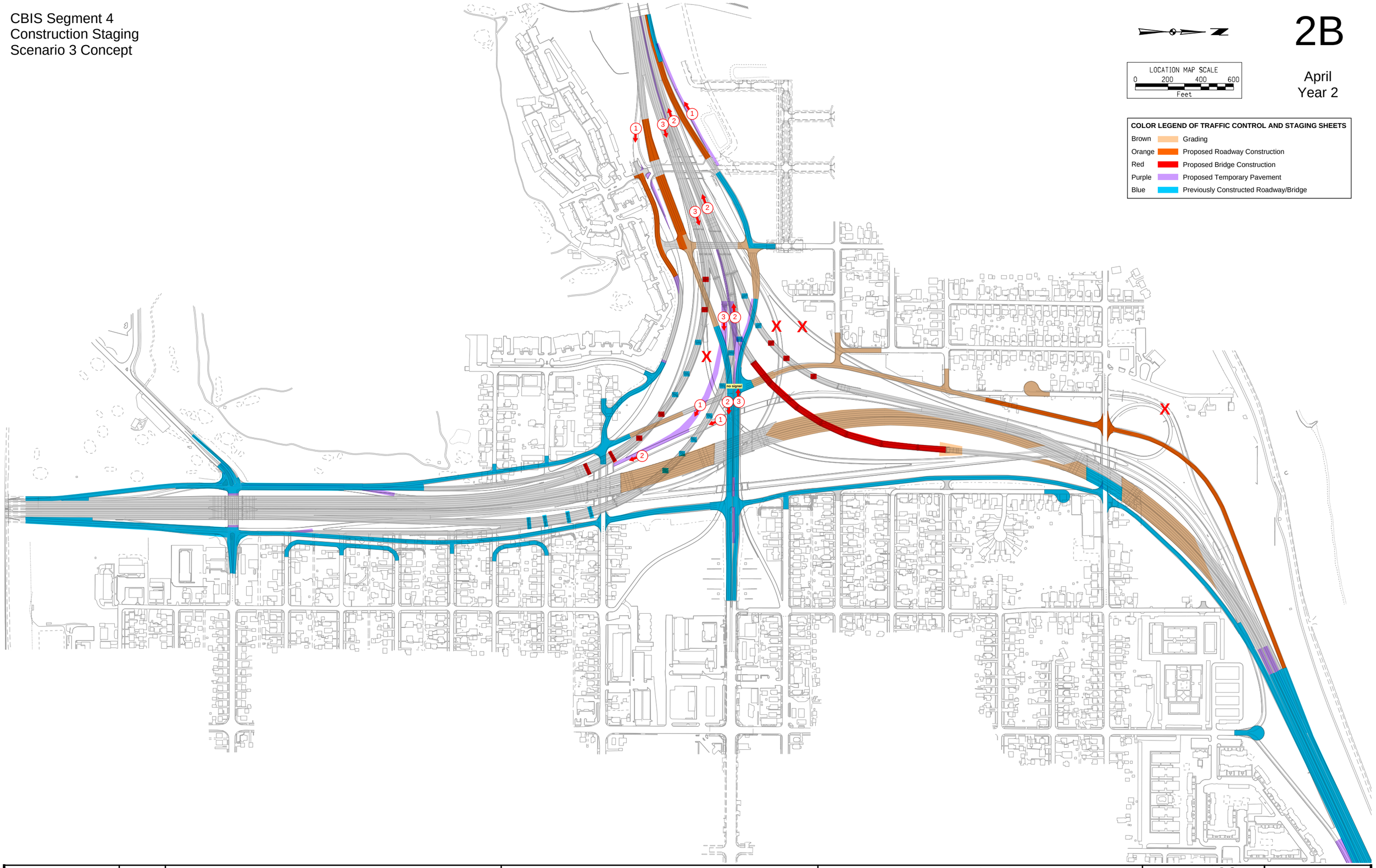
2B

April
Year 2

LOCATION MAP SCALE
0 200 400 600
Feet

COLOR LEGEND OF TRAFFIC CONTROL AND STAGING SHEETS

Brown	Grading
Orange	Proposed Roadway Construction
Red	Proposed Bridge Construction
Purple	Proposed Temporary Pavement
Blue	Previously Constructed Roadway/Bridge



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER J.8

CBIS Segment 4
Construction Staging
Scenario 3 Concept

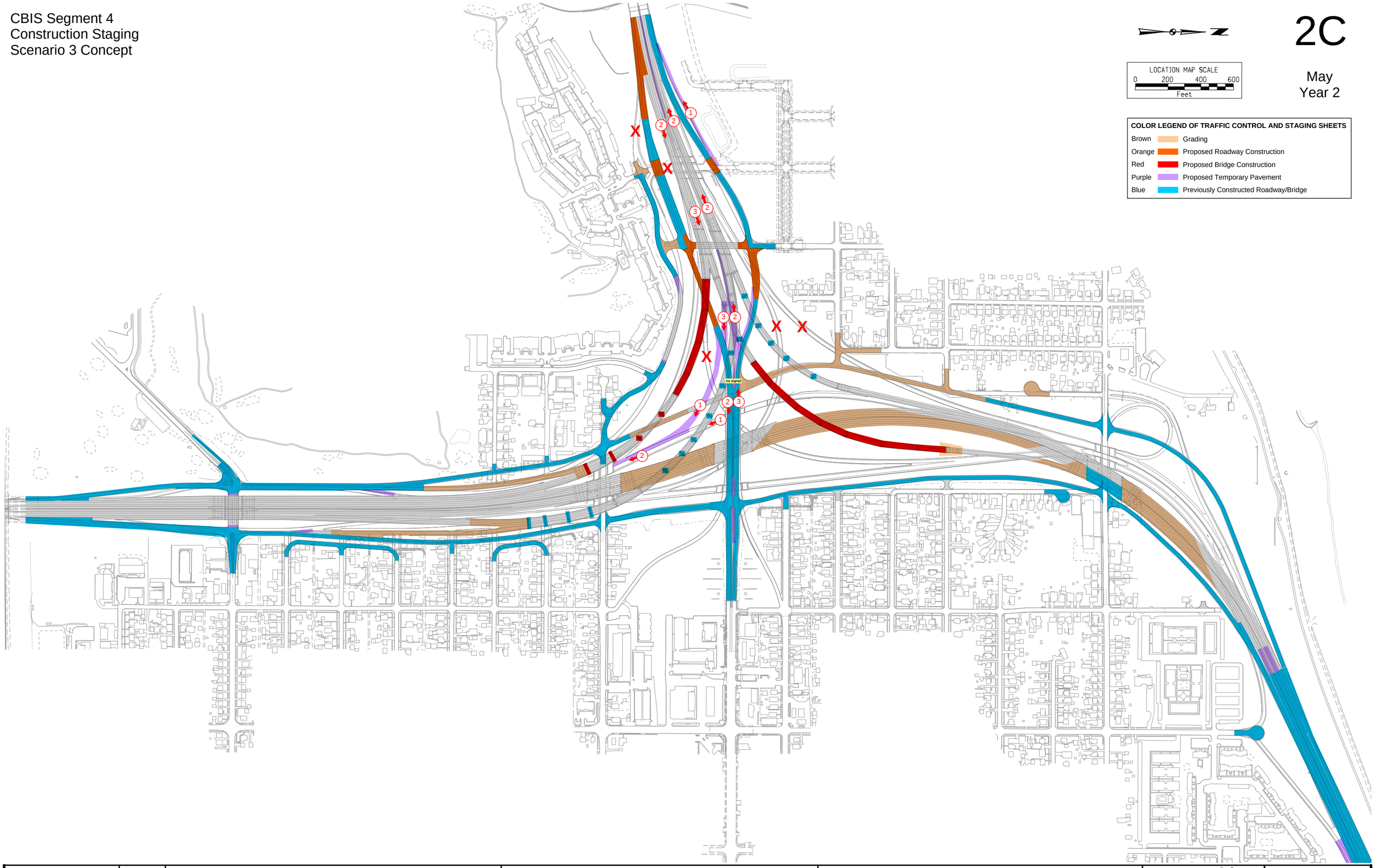
2C

May
Year 2

LOCATION MAP SCALE
0 200 400 600
Feet

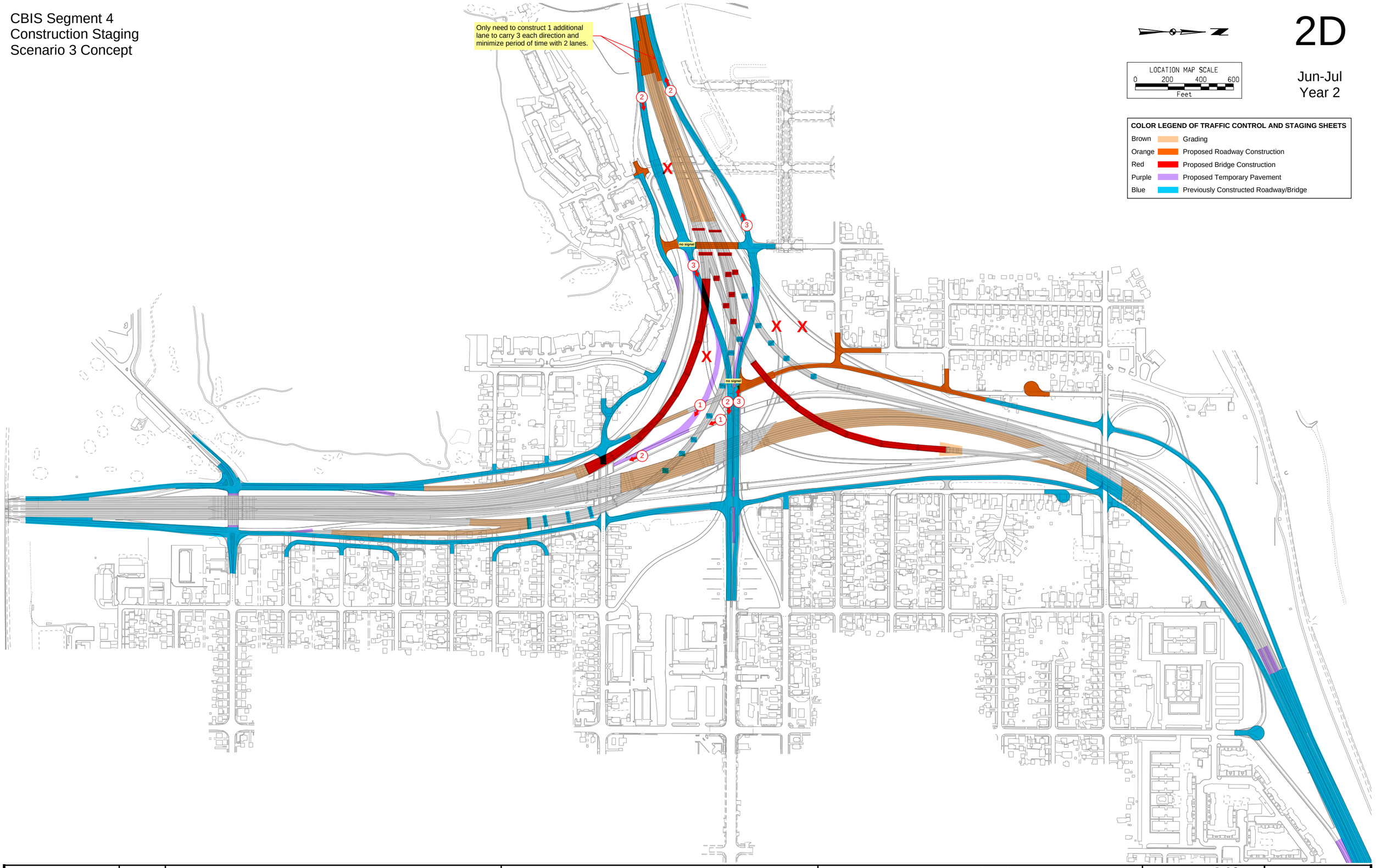
COLOR LEGEND OF TRAFFIC CONTROL AND STAGING SHEETS

Brown	Grading
Orange	Proposed Roadway Construction
Red	Proposed Bridge Construction
Purple	Proposed Temporary Pavement
Blue	Previously Constructed Roadway/Bridge



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER J.9

CBIS Segment 4
Construction Staging
Scenario 3 Concept



2D

LOCATION MAP SCALE
0 200 400 600
Feet

Jun-Jul
Year 2

COLOR LEGEND OF TRAFFIC CONTROL AND STAGING SHEETS

Brown	Grading
Orange	Proposed Roadway Construction
Red	Proposed Bridge Construction
Purple	Proposed Temporary Pavement
Blue	Previously Constructed Roadway/Bridge

FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER J.10

CBIS Segment 4
Construction Staging
Scenario 3 Concept

2E

Aug-Oct
Year 1

LOCATION MAP SCALE
0 200 400 600
Feet

COLOR LEGEND OF TRAFFIC CONTROL AND STAGING SHEETS

Brown	Grading
Orange	Proposed Roadway Construction
Red	Proposed Bridge Construction
Purple	Proposed Temporary Pavement
Blue	Previously Constructed Roadway/Bridge

NB mainline I-29 full closure start date is flexible- targeting September

FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER J.11

CBIS Segment 4
Construction Staging
Scenario 3 Concept

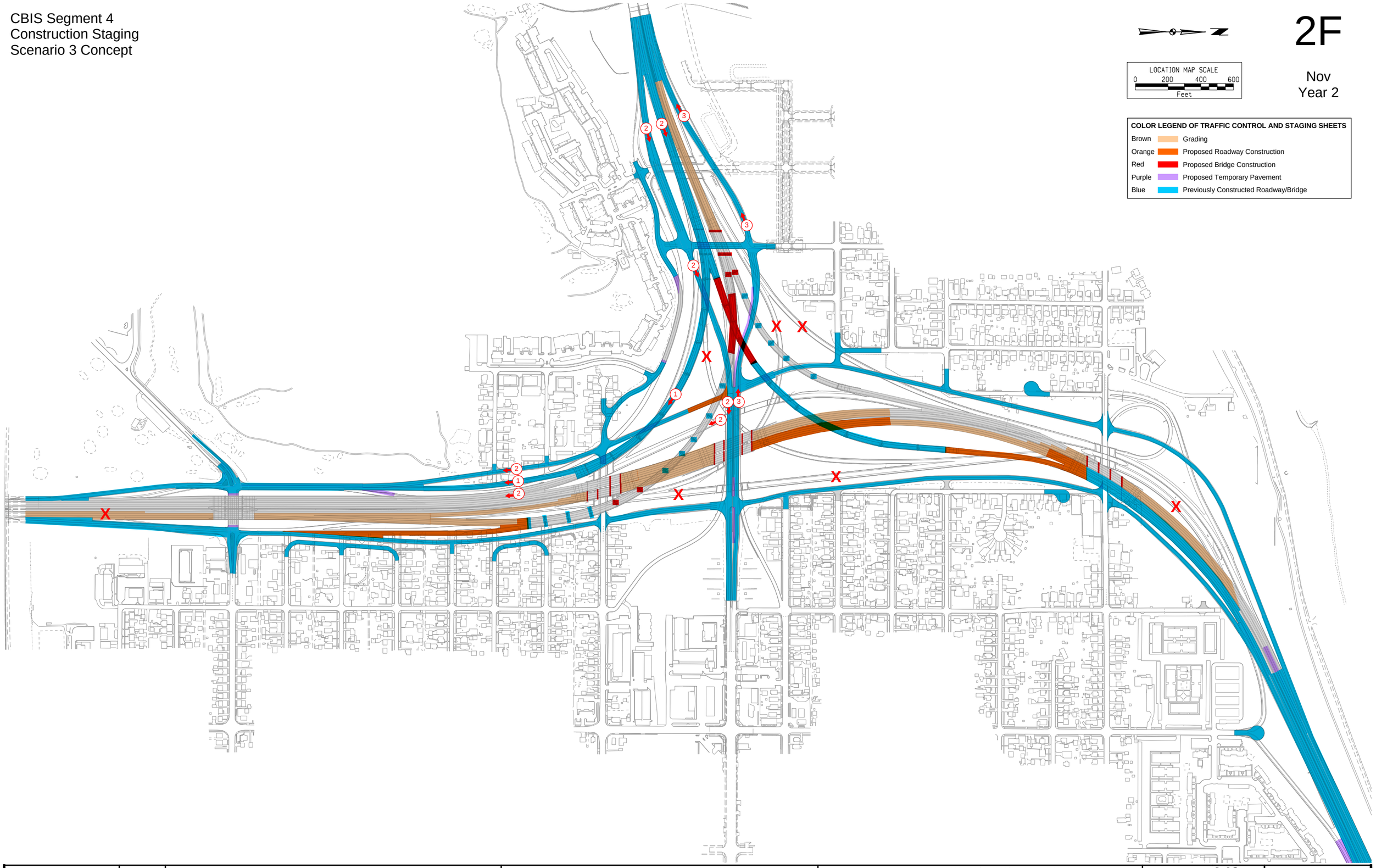
2F

LOCATION MAP SCALE
0 200 400 600
Feet

Nov
Year 2

COLOR LEGEND OF TRAFFIC CONTROL AND STAGING SHEETS

Brown	Grading
Orange	Proposed Roadway Construction
Red	Proposed Bridge Construction
Purple	Proposed Temporary Pavement
Blue	Previously Constructed Roadway/Bridge



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER J.12

CBIS Segment 4
Construction Staging
Scenario 3 Concept

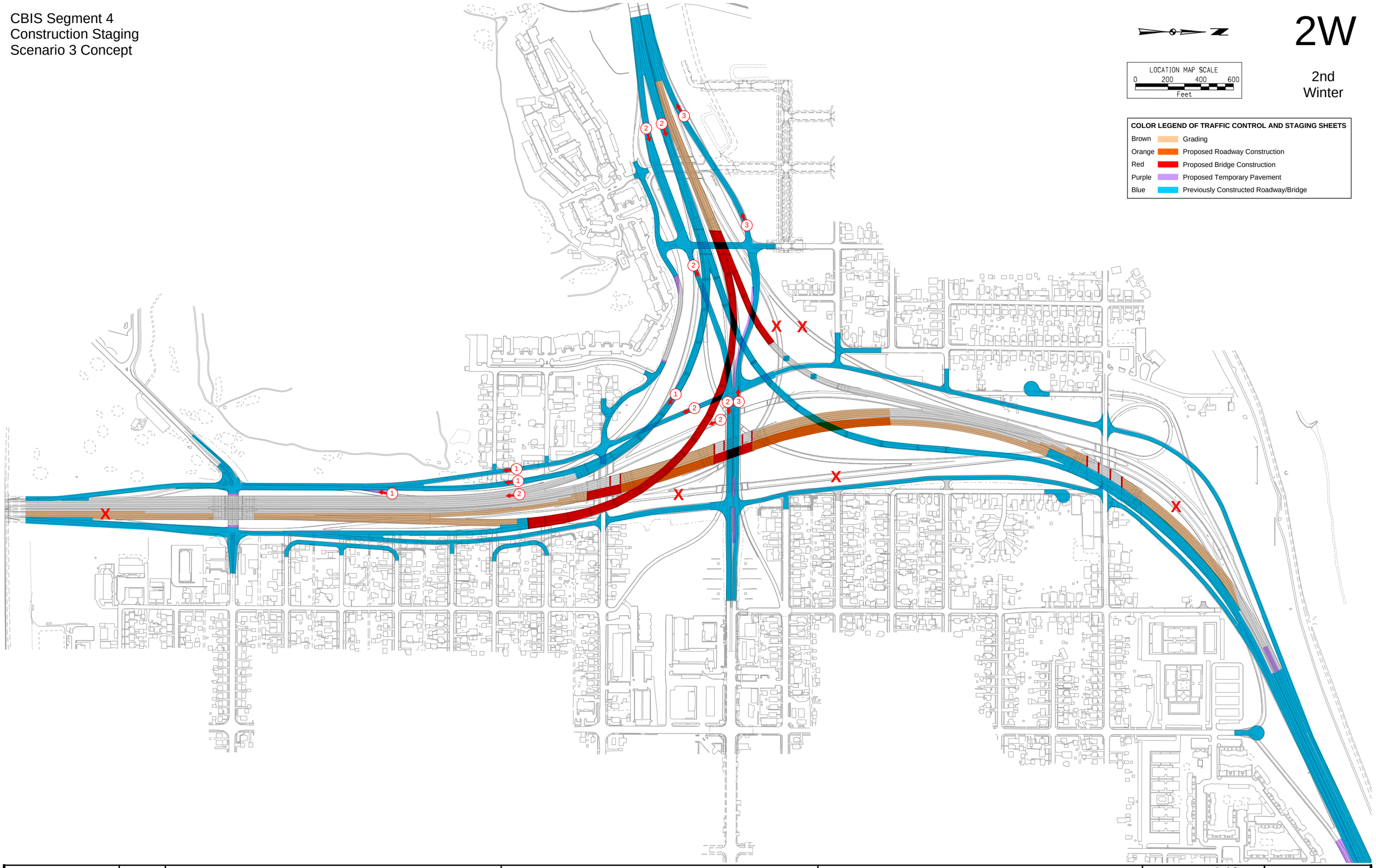
2W

2nd
Winter

LOCATION MAP SCALE
0 200 400 600
Feet

COLOR LEGEND OF TRAFFIC CONTROL AND STAGING SHEETS

Brown	Grading
Orange	Proposed Roadway Construction
Red	Proposed Bridge Construction
Purple	Proposed Temporary Pavement
Blue	Previously Constructed Roadway/Bridge



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER J.13

CBIS Segment 4
Construction Staging
Scenario 3 Concept

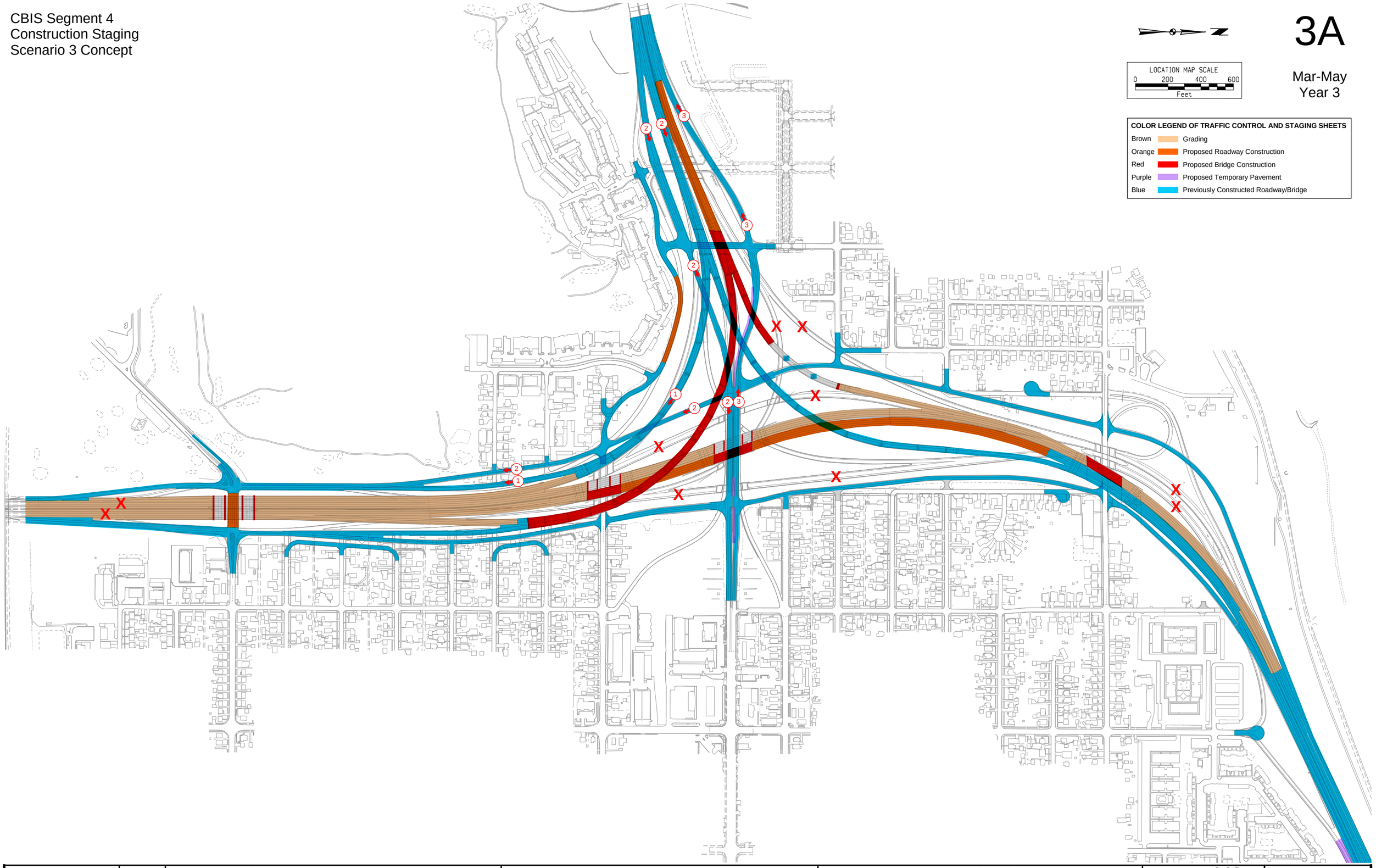
3A

Mar-May
Year 3

LOCATION MAP SCALE
0 200 400 600
Feet

COLOR LEGEND OF TRAFFIC CONTROL AND STAGING SHEETS

Brown	Grading
Orange	Proposed Roadway Construction
Red	Proposed Bridge Construction
Purple	Proposed Temporary Pavement
Blue	Previously Constructed Roadway/Bridge



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER J.14

CBIS Segment 4
Construction Staging
Scenario 3 Concept

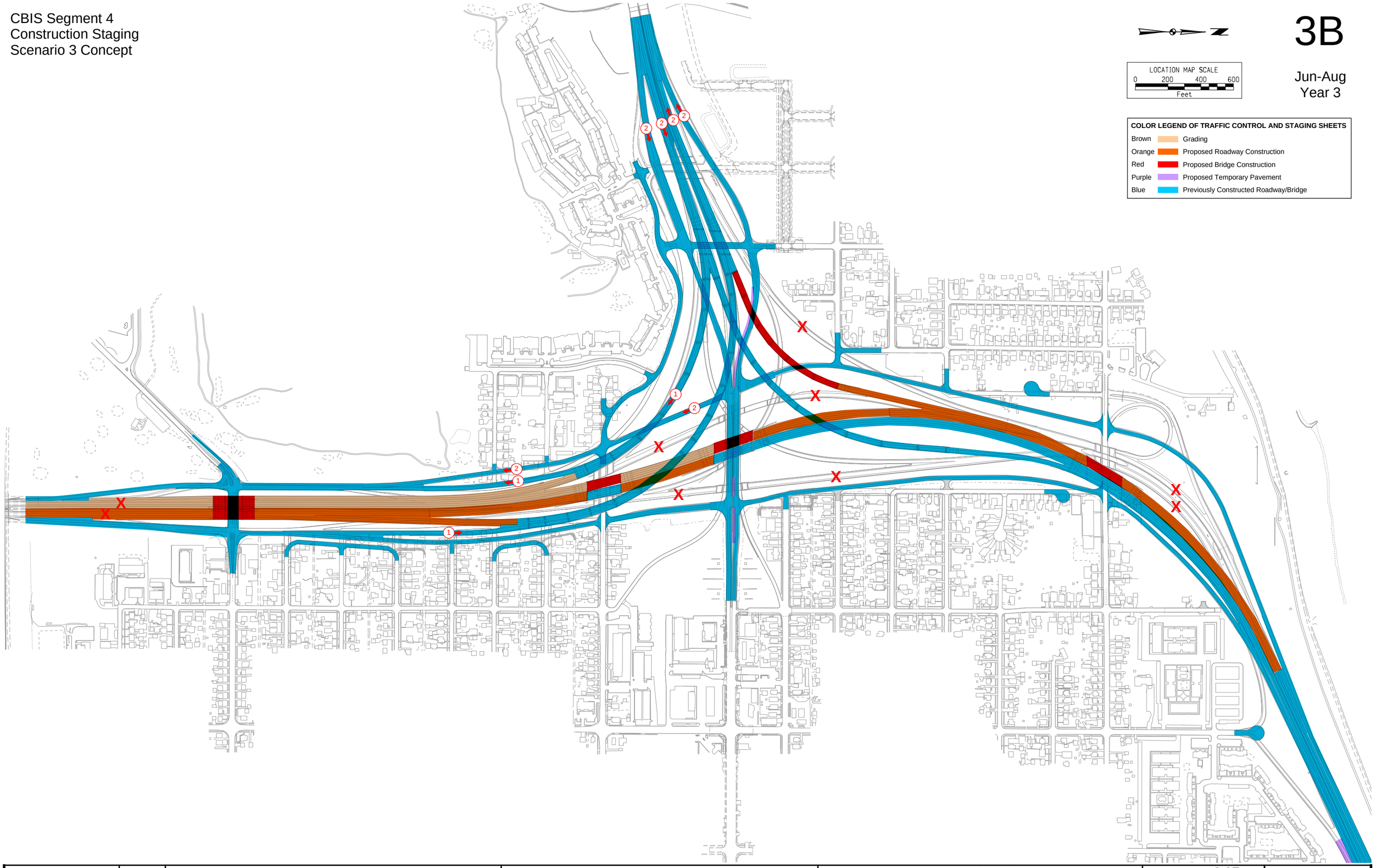
3B

LOCATION MAP SCALE
0 200 400 600
Feet

Jun-Aug
Year 3

COLOR LEGEND OF TRAFFIC CONTROL AND STAGING SHEETS

Brown	Grading
Orange	Proposed Roadway Construction
Red	Proposed Bridge Construction
Purple	Proposed Temporary Pavement
Blue	Previously Constructed Roadway/Bridge



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER J.15

CBIS Segment 4
Construction Staging
Scenario 3 Concept

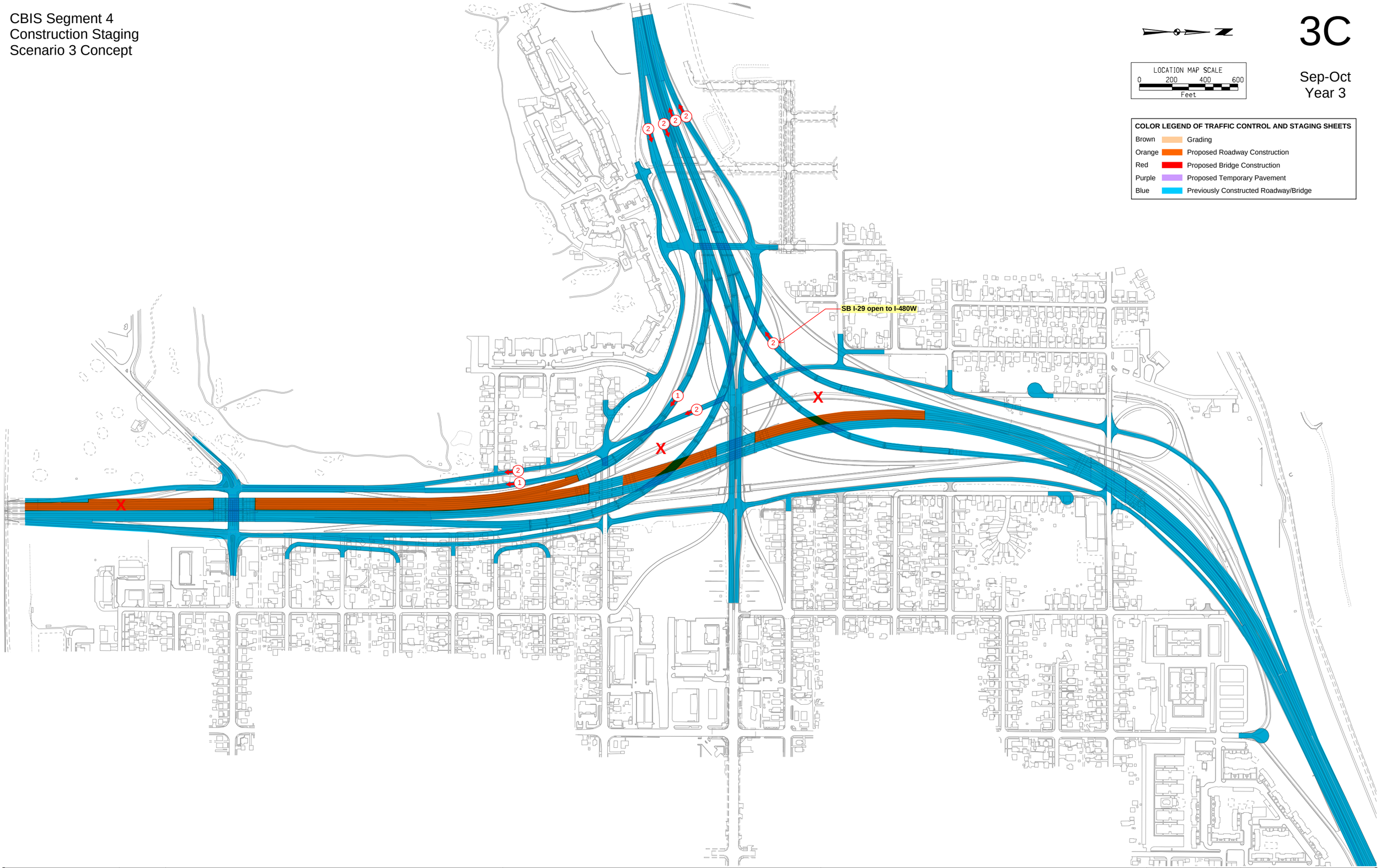
3C

Sep-Oct
Year 3

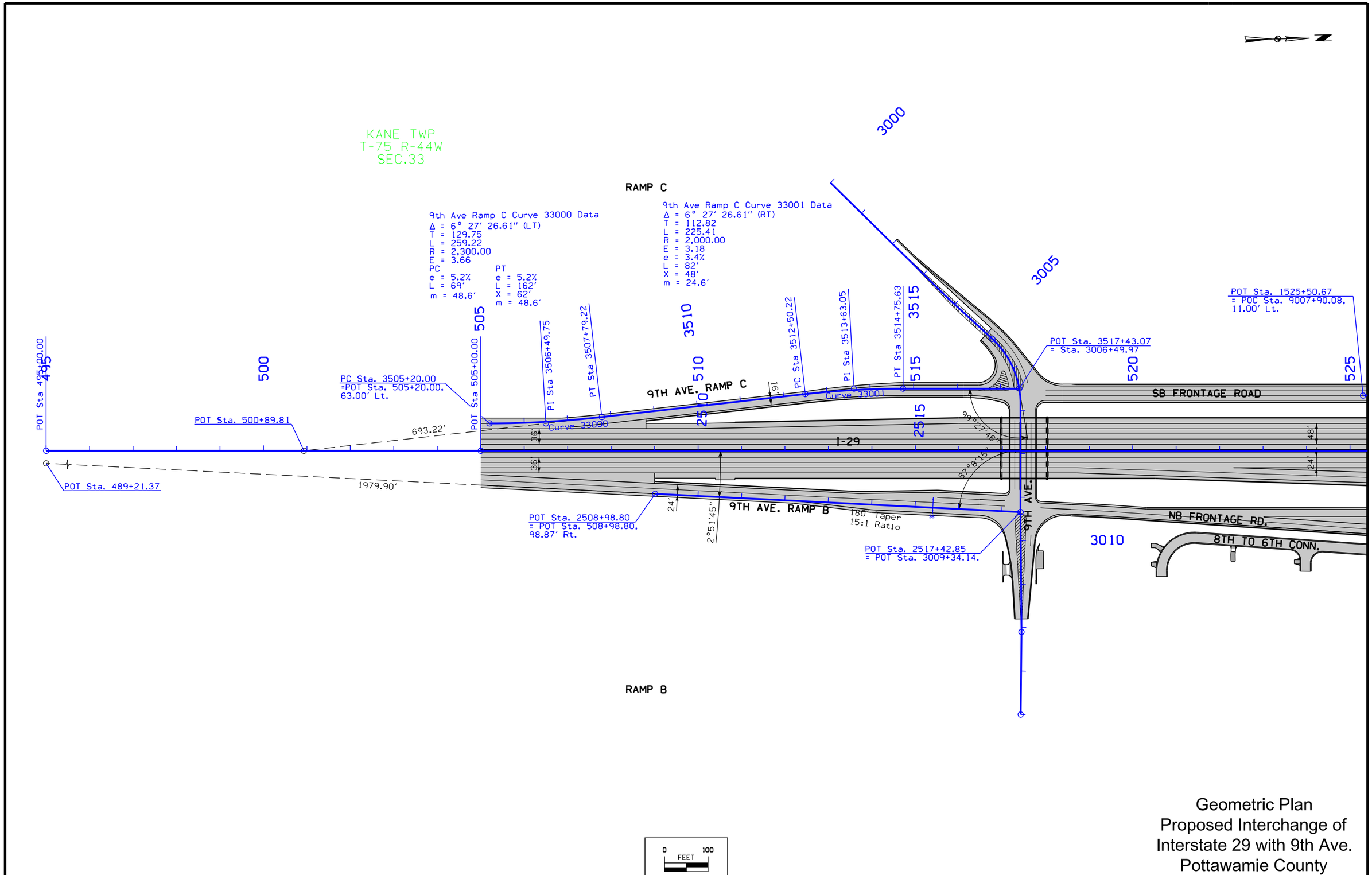
LOCATION MAP SCALE
0 200 400 600
Feet

COLOR LEGEND OF TRAFFIC CONTROL AND STAGING SHEETS

Brown	Grading
Orange	Proposed Roadway Construction
Red	Proposed Bridge Construction
Purple	Proposed Temporary Pavement
Blue	Previously Constructed Roadway/Bridge



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER J.16



Geometric Plan
Proposed Interchange of
Interstate 29 with 9th Ave.
Pottawamie County

FILE NO.	ENGLISH	DESIGN TEAM Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER IM-029-3(166)54--13-78	SHEET NUMBER K.1

1:37:03 PM 10/25/2017 mplummer pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\78029166-K.sht

9th Ave. Ramp A
Curve 31001 Data
Δ = 12° 50' 47.04" (LT)
T = 394.02
L = 784.74
R = 3,500.00
E = 22.11
e = 3.0%
L = 84'
X = 56'
m = 25.2'

KANE TWP
T-75 R-44W
SEC.33

9th Ave. Ramp A
Curve 31002 Data
Δ = 0° 47' 27.29" (LT)
T = 8.13
L = 16.25
R = 1,177.32
E = 0.03
e = 5.0%
L = 56'

I-480 Ramp C
Curve 53001 Data
Δ = 90° 41' 05.42" (LT)
T = 1,214.43
L = 1,899.30
R = 1,200.00
E = 507.29
e = 5.0%
L = 256'
X = 128'
m = 76.8'

I-480 Ramp C
Curve 53000 Data
Δ = 13° 55' 24.97" (LT)
T = 293.06
L = 583.23
R = 2,400.00
E = 17.83
e = 5.0%
L = 200'
X = 80'
m = 60'

I-29 Curve 20002 Data
Δ = 19° 15' 48.71" (LT)
T = 848.54
L = 1,681.06
R = 5,000.00
E = 71.49
PC: e = 3.8%, L = 285', X = 188', m = 28.5'
PT: e = 3.8%, L = 228', X = 150', m = 91.2'

PT Sta. 1537+5152.27
= POC Sta. 3537+52.27, 39.96' Lt.

PC Sta. 3531+71.71
= POC Sta. 531+71.71, 63.00' Lt.

POC Sta. 532+11.28

POT Sta. 503+41.83

POT Sta. 4525+36.19
= POC Sta. 8008+00.00, 29.07' Lt.

POT Sta. 8529+28.83
= POC Sta. 529+28.83, 86.94' Rt.

POT Sta. 4536+41.36
= POC Sta. 8536+41.36, 20.00' Lt.

9th Ave. Ramp D
Curve 34001 Data
Δ = 7° 53' 00.24" (LT)
T = 124.03
L = 247.66
R = 1,800.00
E = 4.27
e = 5.0%
L = 140'
X = 56'
m = 42'

I-480 Ramp H
Curve 58001 Data
Δ = 13° 59' 21.11" (LT)
T = 294.45
L = 585.98
R = 2,400.00
E = 18.00
e = 5.0%
L = 200'
X = 80'
m = 60'

I-480 Ramp H
Curve 58002 Data
Δ = 100° 00' 54.81" (LT)
T = 1,430.49
L = 2,094.71
R = 1,200.00
E = 667.16
e = 5.0%
L = 192'
X = 77'
m = 57.6'

I-480 Ramp F
Curve 56001 Data
Δ = 67° 08' 42.72" (LT)
T = 796.45
L = 1,406.29
R = 1,200.00
E = 240.26
e = 5.6%
L = 157'
X = 56'
m = 47.1'

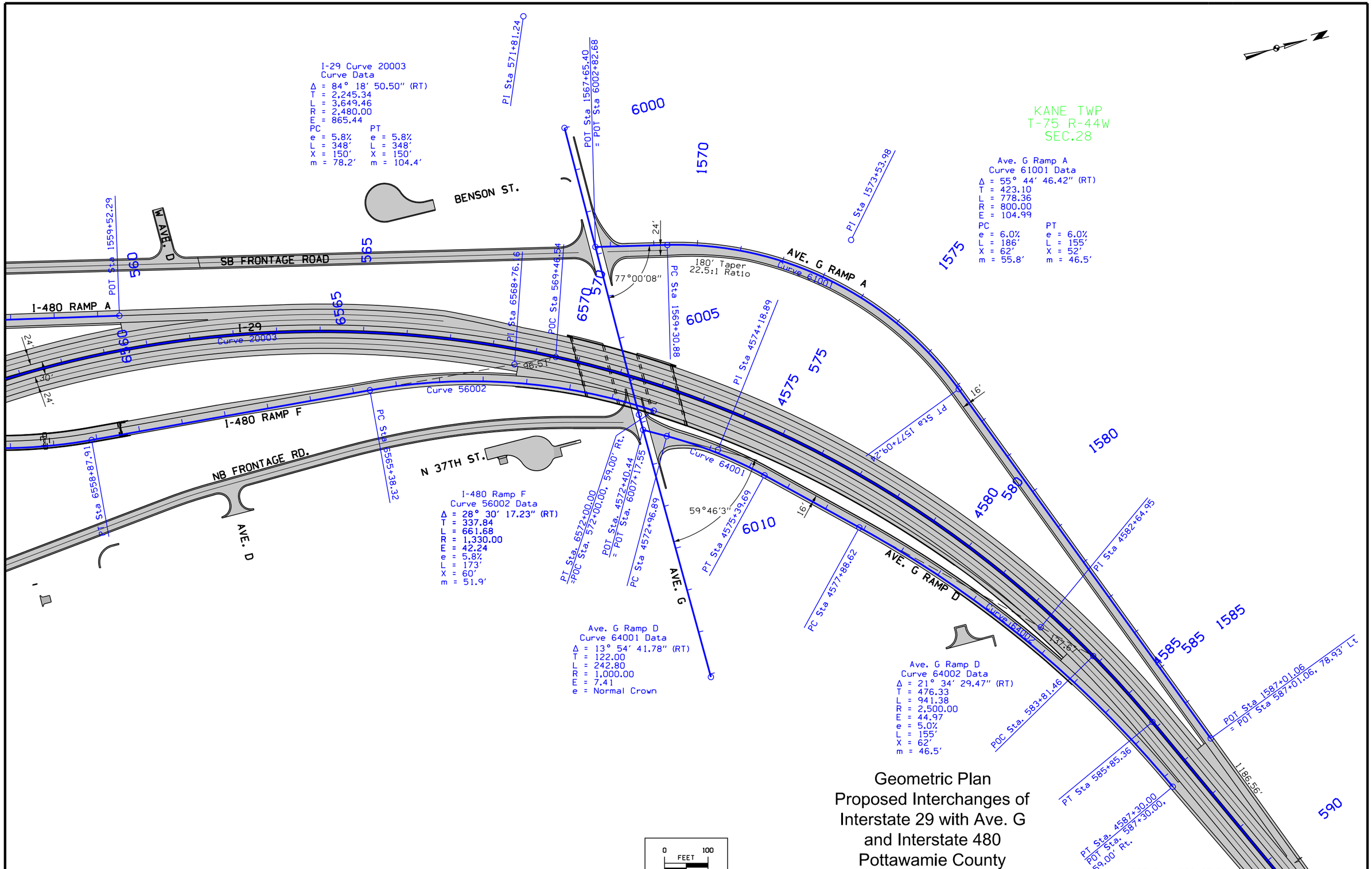
KANE TWP
T-75 R-44W
SEC.28

0 100 FEET

Geometric Plan
Proposed Interchanges of Interstate 29 with 9th Ave. and Interstate 480
Pottawamie County

FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER K.2

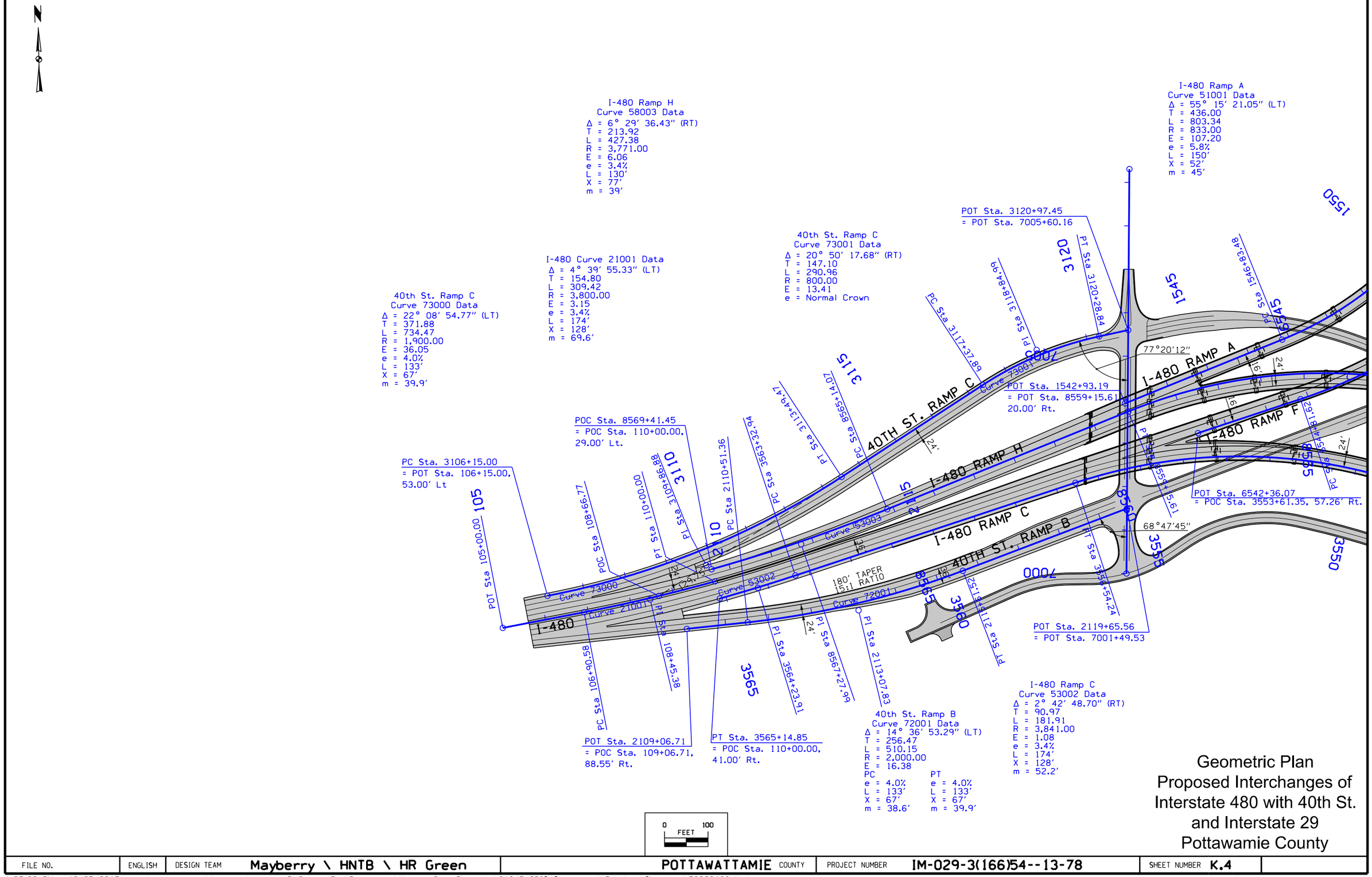
1:37:06 PM 10/25/2017 mplummer pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\78029166-K.sht



Geometric Plan
Proposed Interchanges of
Interstate 29 with Ave. G
and Interstate 480
Pottawamie County

FILE NO.	ENGLISH	DESIGN TEAM Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER IM-029-3(166)54--13-78	SHEET NUMBER K.3

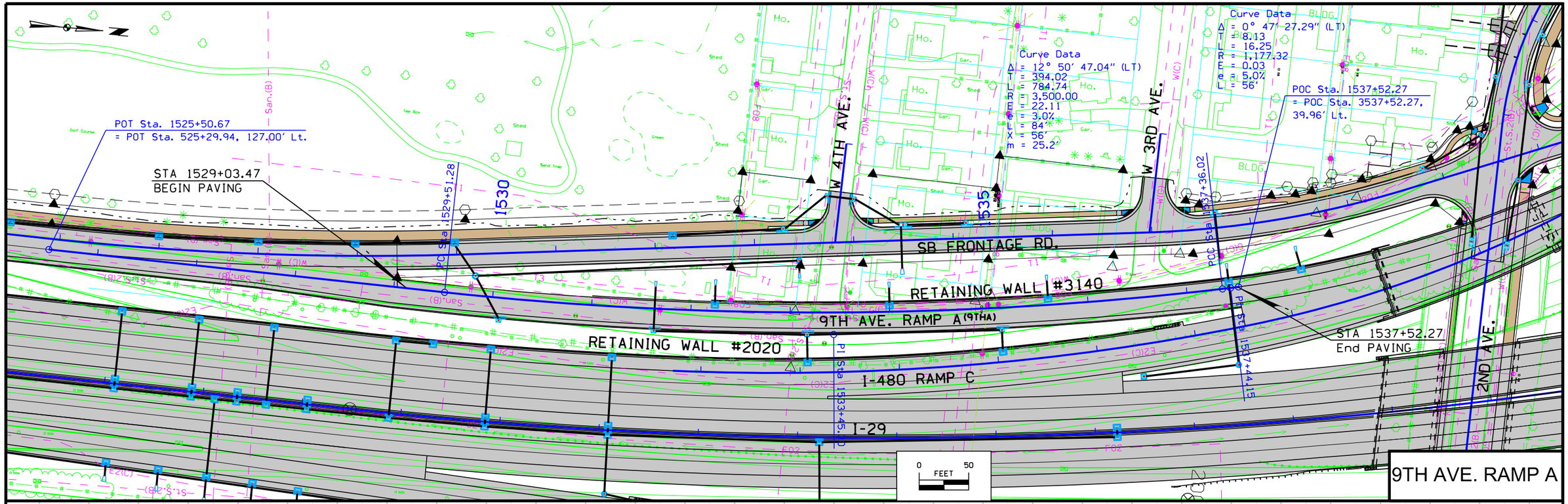
1:37:07 PM 10/25/2017 mplummer pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\78029166-K.sht

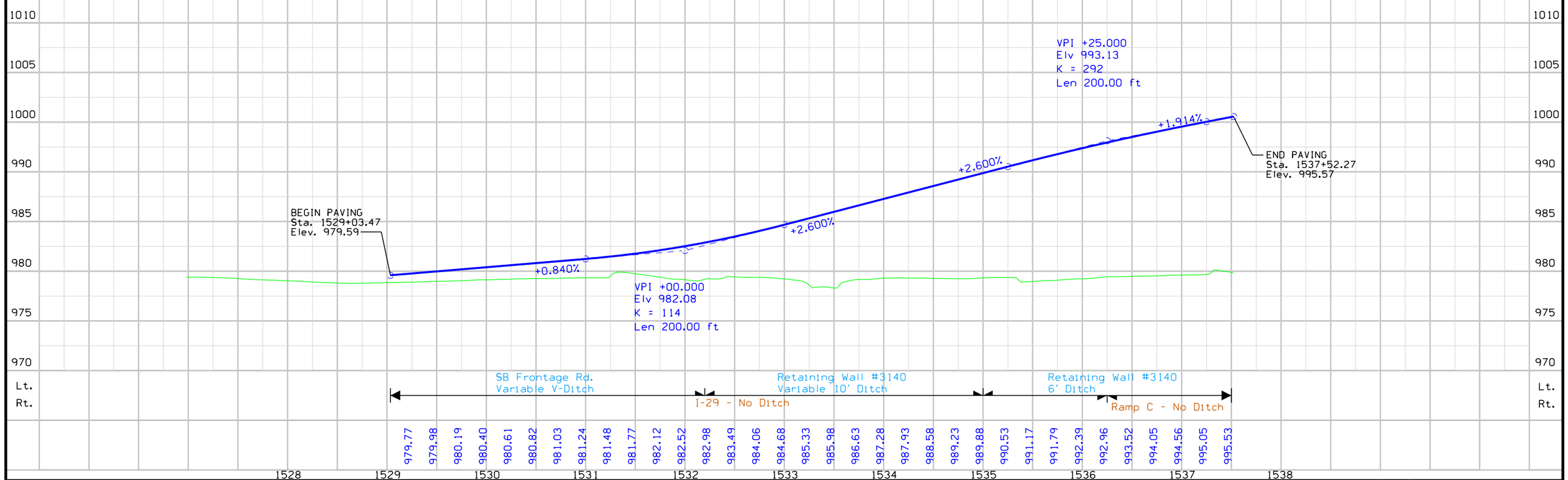


Geometric Plan
Proposed Interchanges of Interstate 480 with 40th St. and Interstate 29
Pottawamie County

FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER K.4

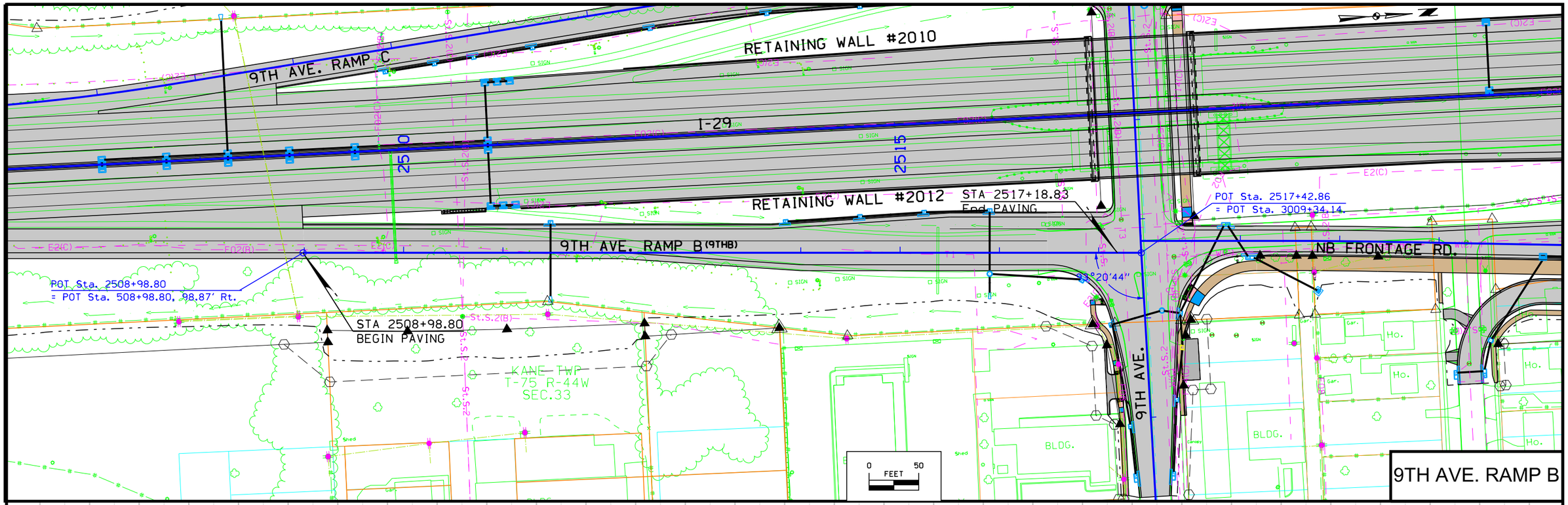
1:37:09 PM 10/25/2017 mplummer pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\78029166-K.sht

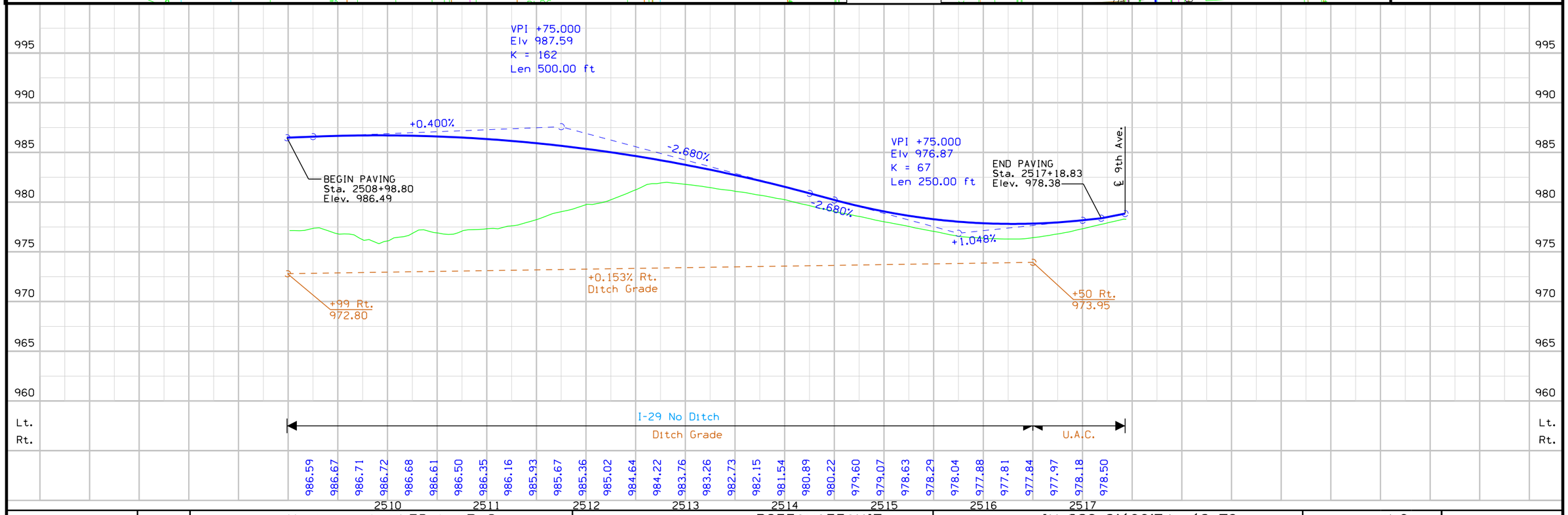




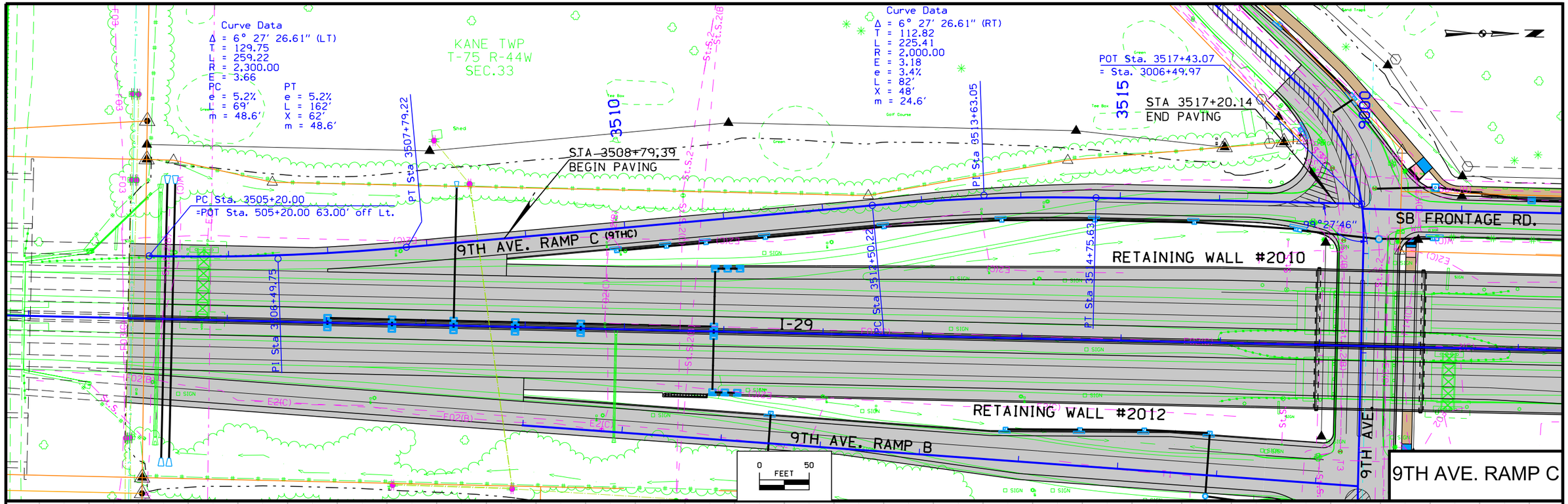
FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER K.5

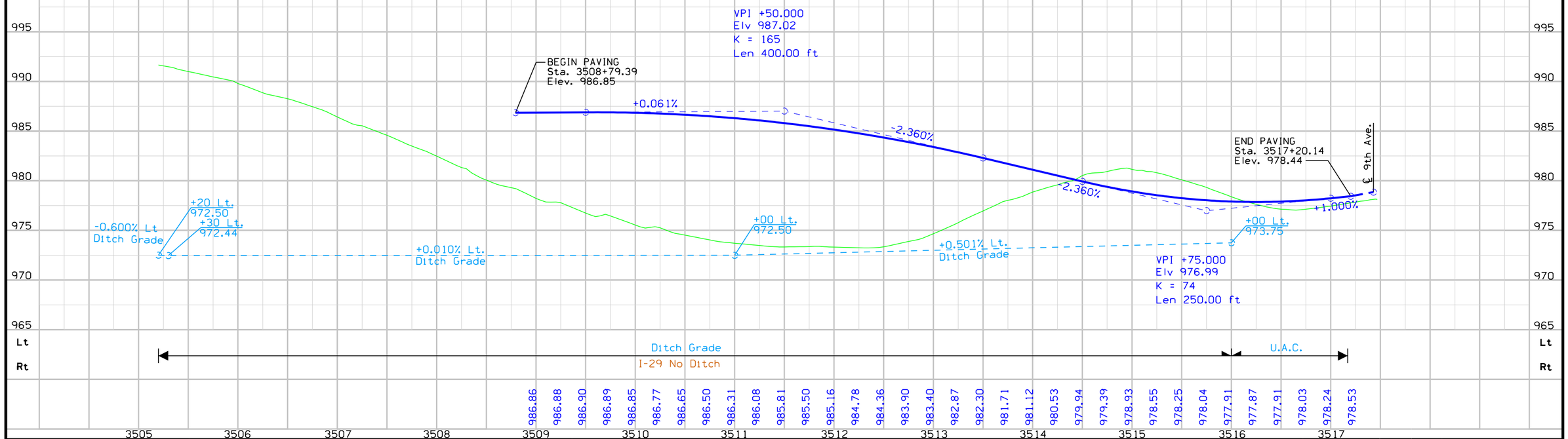
1:37:13 PM 10/25/2017 mplummer pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\78029166-K.sht





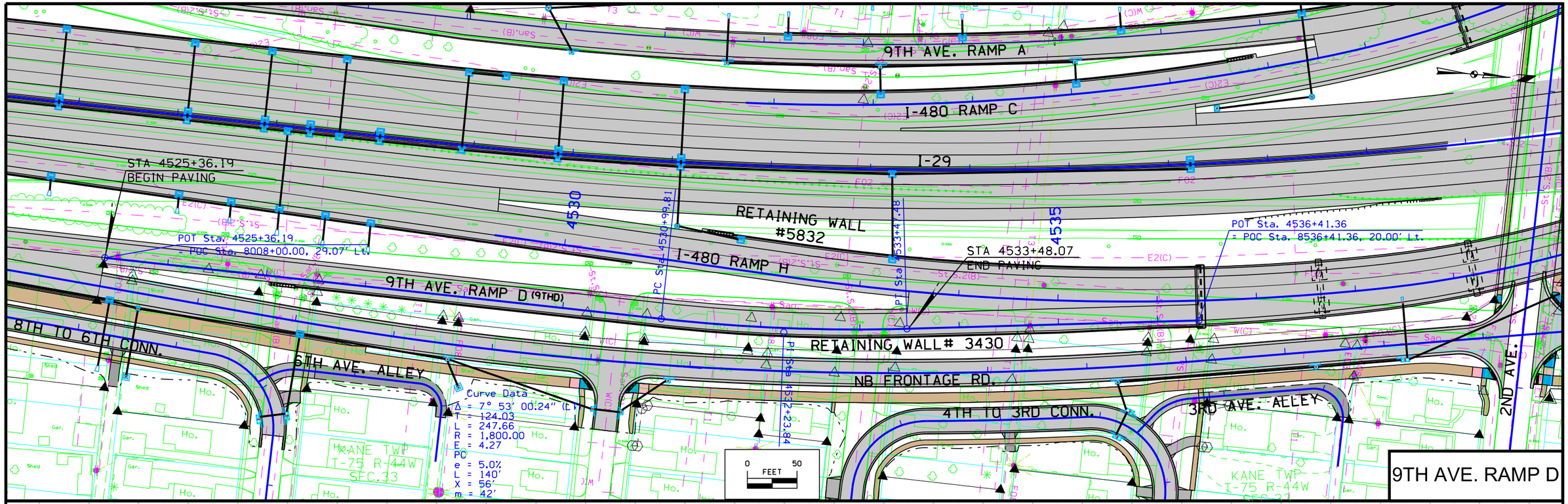
FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER K.6

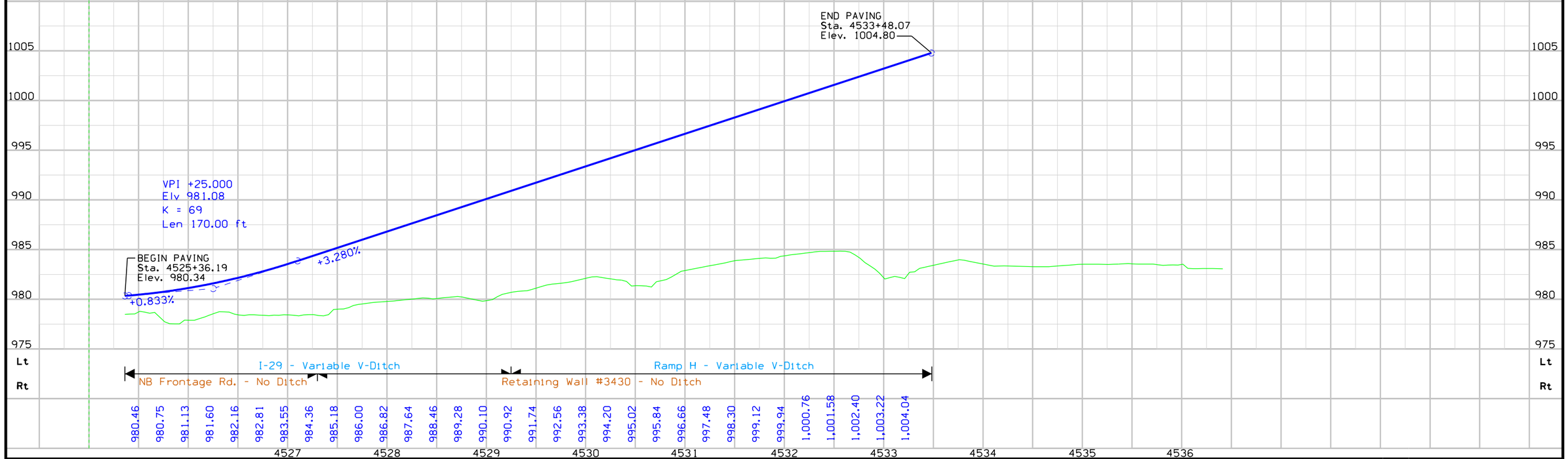




FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER K.7

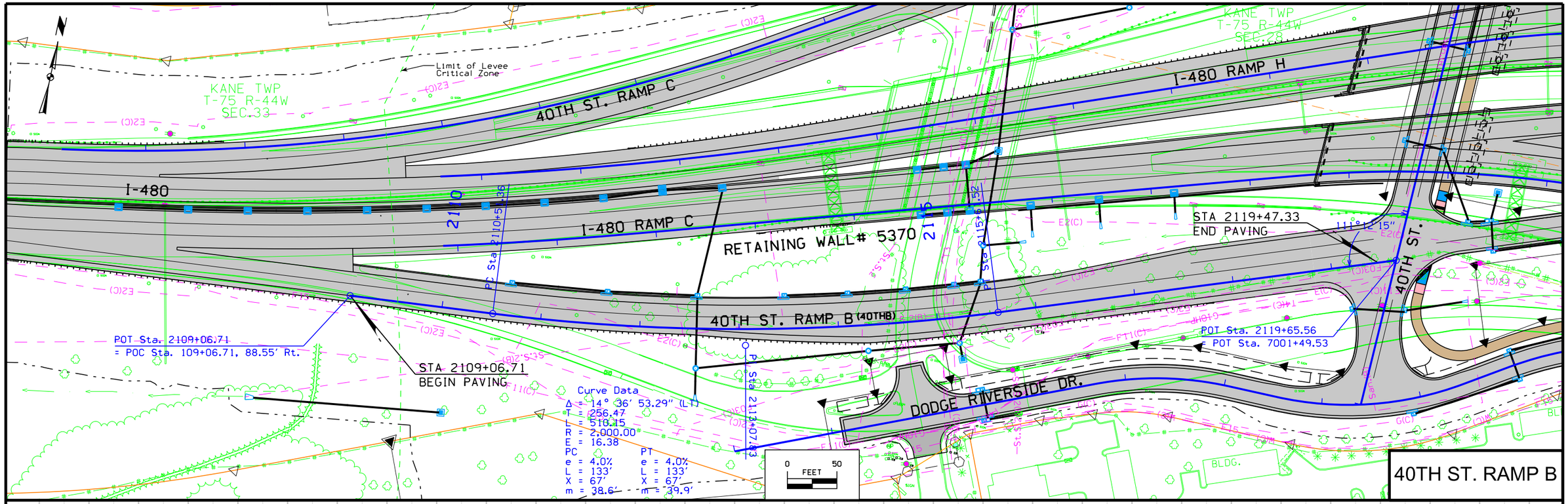
1:37:18 PM 10/25/2017 mplummer pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\78029166-K.sht

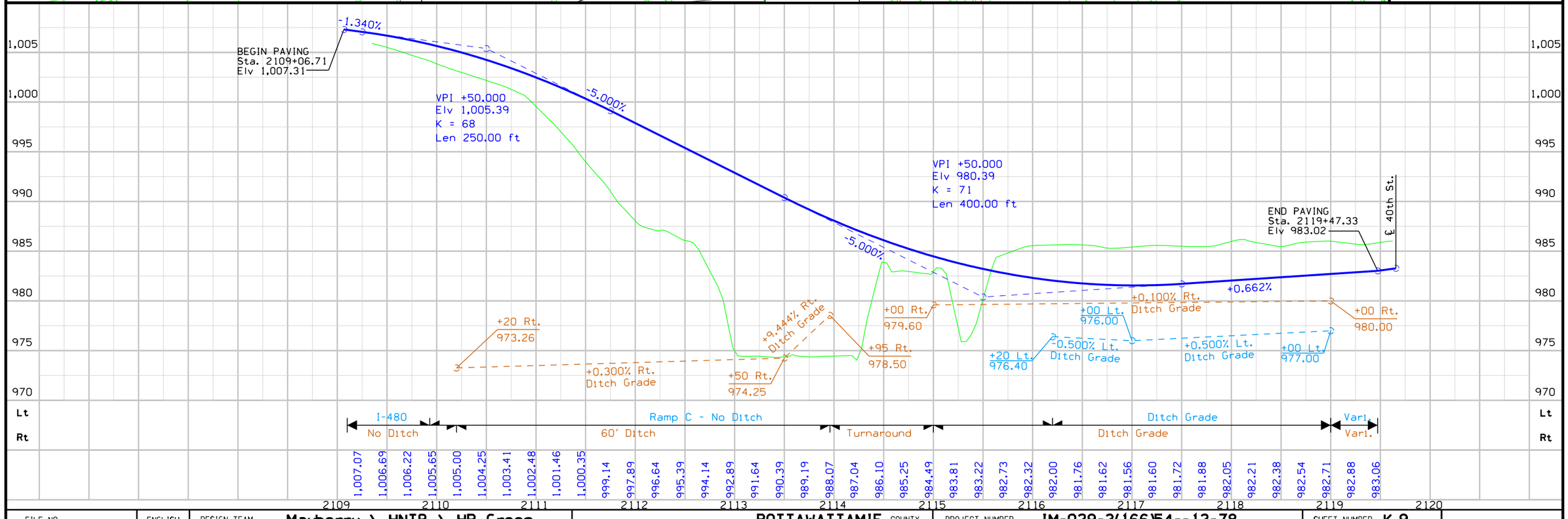




FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER K.8

1:37:21 PM 10/25/2017 mplummer pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\78029166-K.sht





FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER K.9

1:37:24 PM 10/25/2017 mplummer pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\78029166-K.sht

KANE TWP
I-75 R-44W
SEC.33

KANE TWP
T-75 R-44W
SEC.28

Curve Data
Δ = 22° 08' 54.77" (LT)
T = 371.88
L = 734.47
R = 1,900.00
E = 36.05
e = 4.0%
L = 133'
X = 67'
m = 39.9'

Limit of Levee
Critical Zone

PC Sta. 3106+15.00
= POC Sta. 106+15.00, 53.00' Lt

STA 3109+58.66
BEGIN PAVING

PT Sta 3118+49.44

PI Sta 3109+36.88

PI Sta 3118+84.99

POT Sta. 3120+97.45
= POT Sta. 7005+60.16

STA 3120+80.03
END PAVING

PC Sta 3117+37.89

PT Sta 3120+28.84

Curve Data
Δ = 20° 50' 17.68" (RT)
T = 147.10
L = 290.96
R = 800.00
E = 13.41

7°20'12"

3110
3115
3120

I-480

40TH ST. RAMP C(40THC)

I-480 RAMP H

I-480 RAMP C

40TH ST. RAMP B

40TH ST.

I-480
RAMP A

0 FEET 50

40TH ST. RAMP C

-1.600%
+00 Rt.
1003.40
-3.000% Rt.
Ditch Grade
+00 Rt.
1000.40
-4.775% Rt.
Ditch Grade
+00 Rt.
990.85
-5.850% Rt.
Ditch Grade
+30 Rt.
983.25
-2.498% Rt.
Ditch Grade
+00 Rt.
976.50
+0.300% Rt.
Ditch Grade
+90 Rt.
977.37

BEGIN PAVING
Sta. 3109+58.66
Elv 1003.53

VPI +00.000
Elv 1,001.27
K = 74
Len 250.00 ft

VPI +00.000
Elv 981.27
K = 91
Len 400.00 ft

VPI +00.000
Elv 978.27
K = 84
Len 150.00 ft

END PAVING
Sta. 3120+80.03
Elv 979.22

-5.000%
-0.600%
+0.600%
+1.187%

℄ 40th St.

1,005
1,000
995
990
985
980
975
970

Lt
Rt

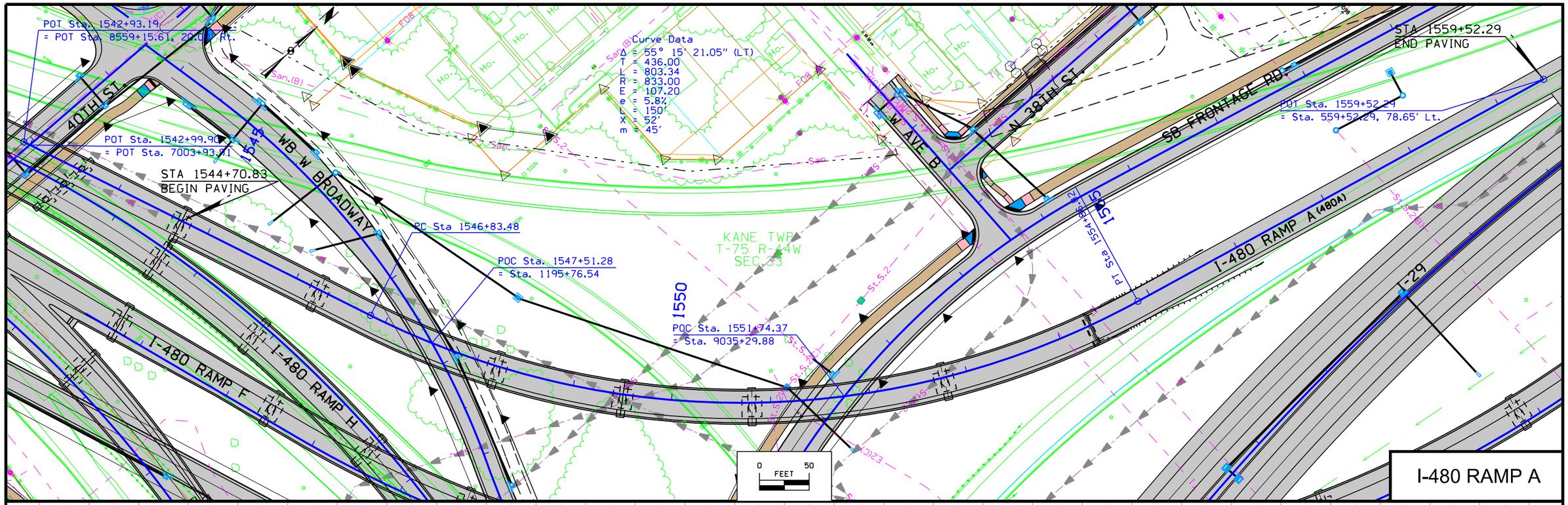
I-480 | Variable - V Ditch | No Ditch | 20' Ditch | 40' Ditch | Vari.

1003.27 1002.82 1002.30 1001.68 1000.99 1000.20 999.34 998.38 997.35 996.22 995.02 993.77 992.52 991.27 990.05 988.90 987.83 986.82 985.88 985.00 984.20 983.47 982.80 982.20 981.68 981.22 980.83 980.50 980.25 980.07 979.92 979.77 979.62 979.47 979.32 979.17 979.02 978.87 978.72 978.60 978.56 978.60 978.71 978.90 979.16

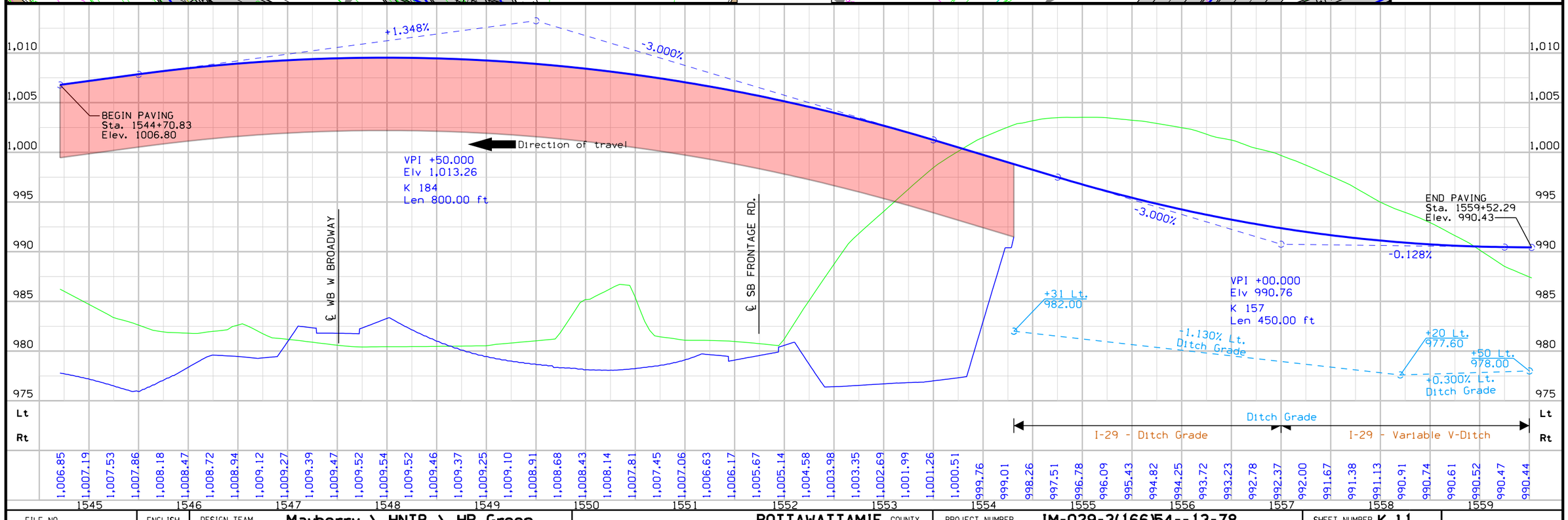
3109 3110 3111 3112 3113 3114 3115 3116 3117 3118 3119 3120

FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER K.10

1:37:28 PM 10/25/2017 mplummer pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\78029166-K.sht

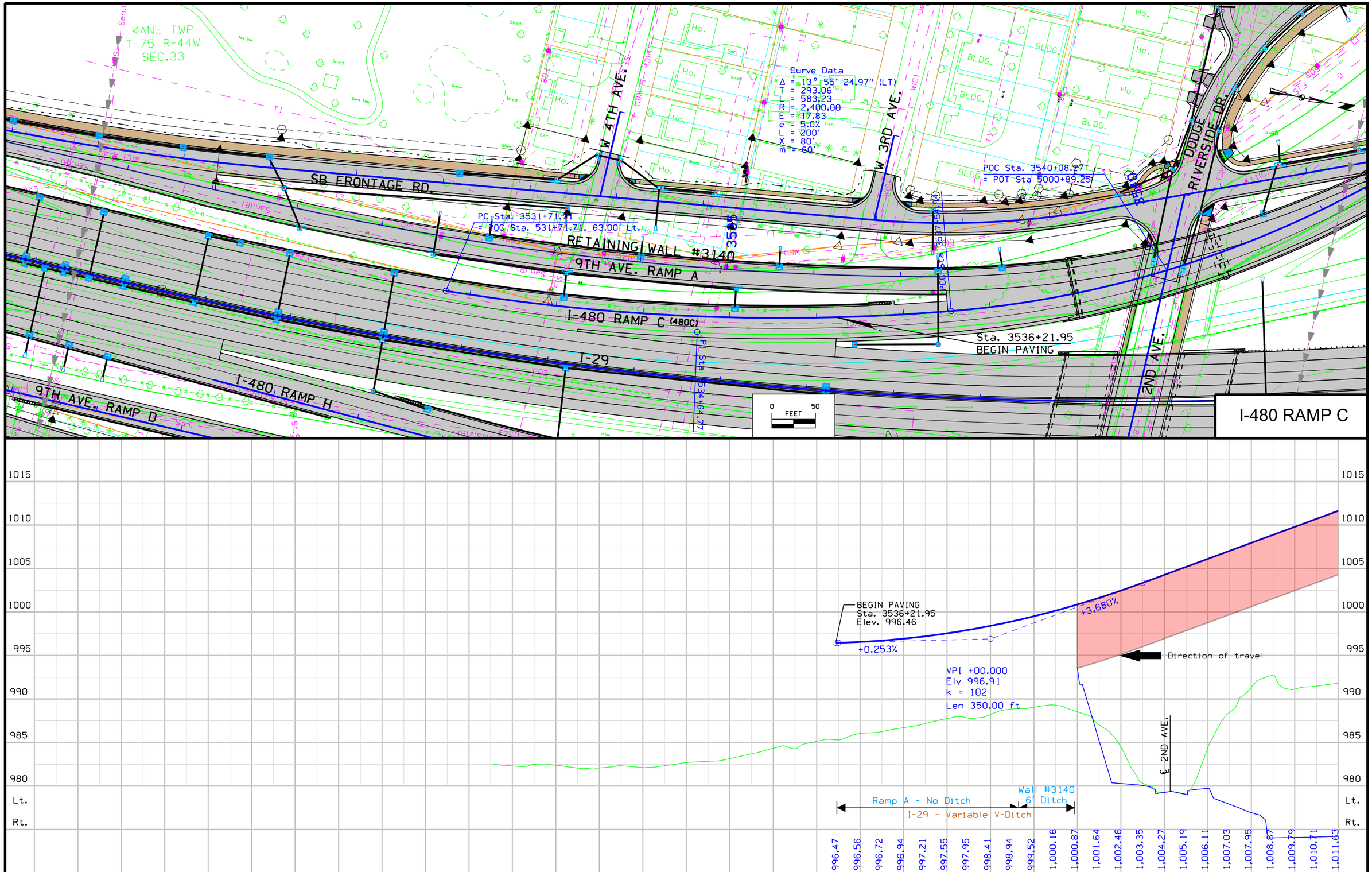


I-480 RAMP A



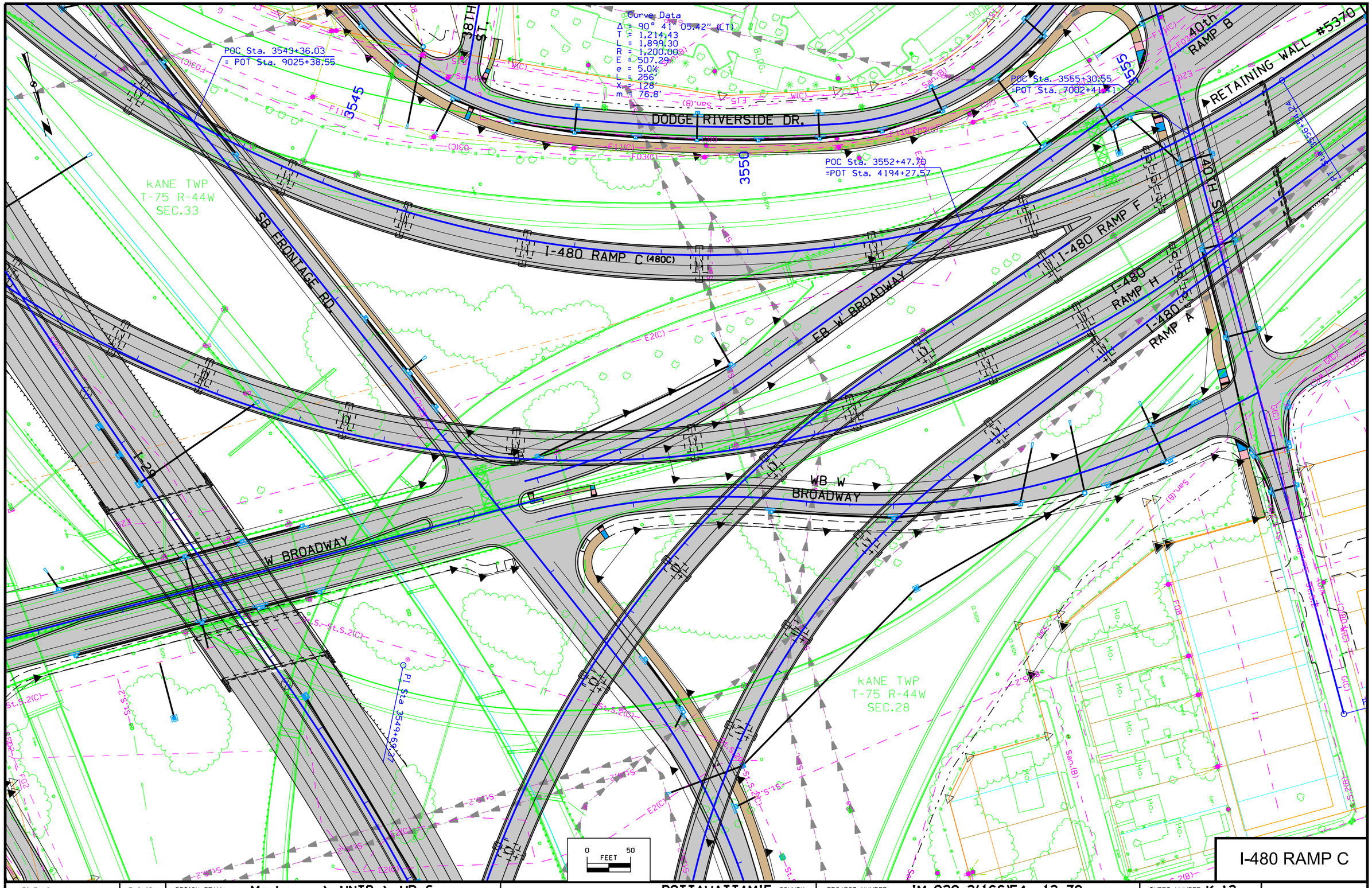
FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER K.11

2:01:05 PM 10/26/2017 mplummer pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\78029166-K.sht



FILE NO.	ENGLISH	DESIGN TEAM Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER IM-029-3(166)54--13-78	SHEET NUMBER K.12

1:37:37 PM 10/25/2017 mplummer pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\78029166-K.sht



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER K.13

1:37:40 PM 10/25/2017 mplummer pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\78029166-K.sht

VPI +50.000
Elv 1,039.23
k = 91
Len 750.00 ft

+3.680%

-4.600%

Direction of travel

℄ SB FRONTAGE RD.

℄ EB W BROADWAY

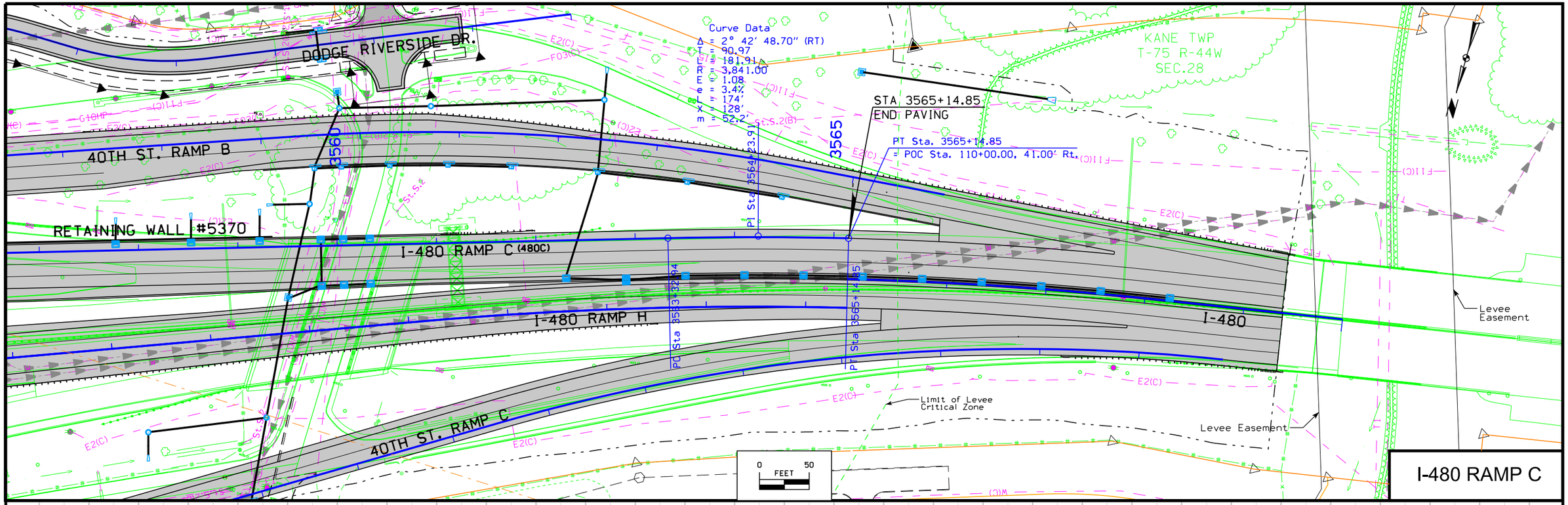
℄ 40TH ST.

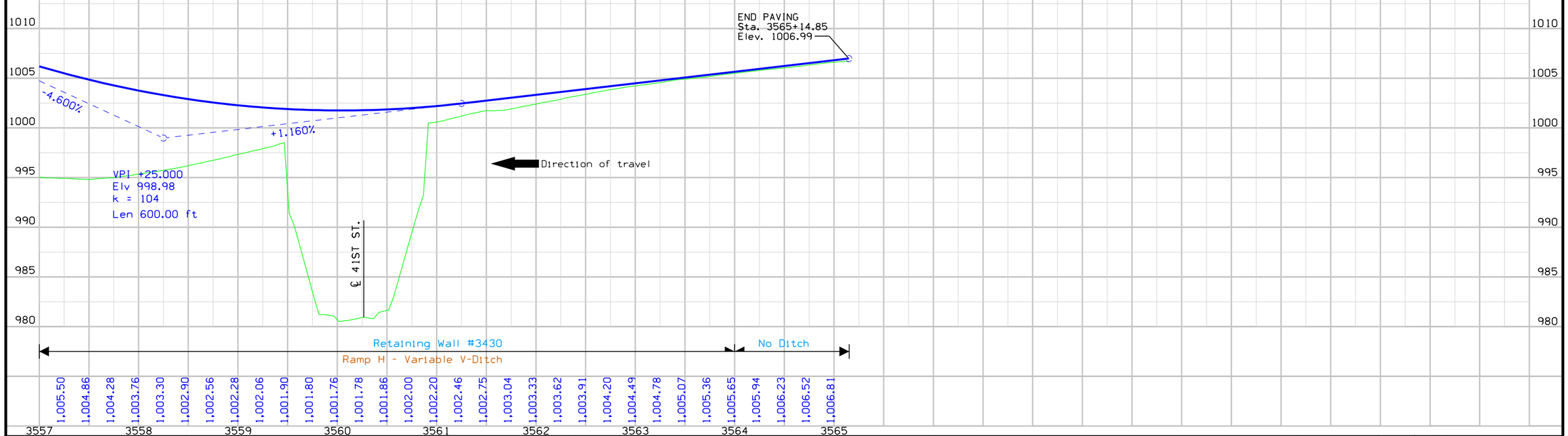
I-480 RAMP C

Wall #5370
Variable
V-ditch

FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER IM-029-3(166)54--13-78	SHEET NUMBER K.14

1:37:42 PM 10/25/2017 mplummer pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\7802916 6-K.sht





FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER K.15

1:37:44 PM 10/25/2017 mplummer pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\78029166-K.sht

40TH ST.

SB FRONTAGE RD.

I-480 RAMP A

I-480 RAMP F(480F)

I-480 RAMP C

I-480 RAMP H

EB W BROADWAY

WB W BROADWAY

W BROADWAY

I-29

NB FRONTAGE RD.

DODGE RIVERSIDE DR.

POT Sta. 6542+36.07
= POC Sta. 3553+58.83
57.93' Rt.

STA 6542+36.07
BEGIN PAVING

POC Sta. 6546+33.64
= POC Sta. 8553+67.02

POC Sta. 6547+27.96
= POC Sta. 1197+91.32

POC Sta. 6553+70.90
= POC Sta. 553+28.27

POC Sta. 6549+47.17
= POT Sta. 9033+04.38

Curve Data
Δ = 67° 08' 42.72" (LT)
T = 796.45
L = 1,406.29
R = 1,200.00
E = 240.26
e = 5.6%
L = 157'
X = 56'
m = 47.1'

PI Sta. 6552+78.07

KANE TWP
T-75 R-44W
SEC.28

KANE TWP
T-75 R-44W
SEC.33

6545

6550

6555

0 FEET 50

I-480 RAMP F

FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER K.16

1:37:47 PM 10/25/2017 mplummer pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\7802916 6-K.sht

+5.000%

-4.760%

VPI +75.000
Elv 1,054.59
K = 87
Len 850.00 ft

Direction of travel

BEGIN PAVING
Sta. 6542+36.07
Elev. 1022.65

℄ I-480 RAMP H

℄ WB W BROADWAY

℄ SB FRONTAGE RD.

℄ I-29

I-480 RAMP F

| | | |

SB FRONTAGE RD.

AVE. G RAMP A

I-480 RAMP A

I-29

KANE TWP
T-75 R-44W
SEC.28

6560

6565

6570

RT Sta 6558+87.91

I-480 RAMP F(480F)

PC Sta 6565+88.32

O PI Sta 6568+76.16

STA 6568+74.87
END PAVING

NB FRONTAGE RD.

37TH ST.

AVE. D

AVE. G

POC Sta. 6571+58.19
PDI Sta. 6006+58.87
PT Sta. 6572+00.00
POC Sta. 572+00.00, 59.00'

Curve Data
Δ = 28° 30' 17.23" (RT)
T = 337.84
L = 661.68
R = 1,330.00
E = 42.24
e = 5.8%
L = 173'
X = 60'
m = 51.9'

0 FEET 50

I-480 RAMP F

FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER K.18	

1:37:51 PM 10/25/2017 mplummer pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\78029166-K.sht

END PAVING
Sta. 6568+74.87
Elev. 997.43

Direction of travel

-4.760%

+1.581%

VPI +75.000
Elv 987.95
K = 142
Len 900.00 ft

+77 Rt.
980.20

+0.600% Rt.
Ditch Grade

+55 Rt.
974.67

I-480 RAMP F

I-29 - Ditch Grade
Ditch Grade

Lt	1,014.13	1,012.94	1,011.75	1,010.56	1,009.37	1,008.20	1,007.08	1,006.00	1,004.96	1,003.97	1,003.02	1,002.12	1,001.26	1,000.45	999.67	998.95	998.26	997.62	997.03	996.48	995.97	995.50	995.09	994.71	994.38	994.09	993.85	993.65	993.49	993.38	993.32	993.29	993.31	993.38	993.49	993.64	993.84	994.08	994.36	994.69	995.07	995.46	995.86	996.25	996.65	997.04
Rt																																														

6557 6558 6559 6560 6561 6562 6563 6564 6565 6566 6567 6568 6569 6570 6571 6572

FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER K.19

1:37:53 PM 10/25/2017 mplummer pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\78029166-K.sht

SB FRONTAGE RD.

RETAINING WALL #3140

9TH AVE. RAMP A

RETAINING WALL #2020

I-480 RAMP C

8530

I-29

8535

8540

POT Sta. 8529+28.83
= POC Sta. 529+28.83, 86.94' Rt.

STA 8529+28.83
BEGIN PAVING

POC Sta 8532+39.91

RETAINING WALL #5832

I-480 RAMP H (480H)

9TH AVE. RAMP D

POC Sta 8538+20.80

POC Sta. 8539+78.71
= POT Sta. 5003+73.44

NB FRONTAGE RD.

6TH AVE. ALLEY

5TH AVE.

4TH TO 3RD CONN.

3RD AVE. ALLEY

2ND AVE.

KANE TWP
T-75 R-44W
SEC.33

Curve Data
Δ = 13° 59' 21.11" (LT)
T = 294.45'
L = 585.98'
R = 2,400.00'
D = 18.00
e = 5.0%
Lt = 200'
X = 80'
m = 60'

0 50
FEET

I-480 RAMP H

FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER K.20

1:37:56 PM 10/25/2017 mplummer pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\78029166-K.sht

VPI +00.000
Elv 995.29
K = 138
Len 530.00 ft

+50 Rt.
1004.00
+6.000% Rt.
Ditch Grade

+00 Rt.
1001.00

+4.760%

BEGIN PAVING
Sta. 8529+28.83
Elev. 992.81

+0.914%

+30 Rt.
986.40
+3.000% Rt.
Ditch Grade

+4.400% Rt.
Ditch Grade

+50 Rt.
990.00

Direction of travel

℄ 2ND AVE.

I-480 RAMP H

I-29 Variable - V Ditch
Variable - V Ditch
No Ditch

FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER K.21

1:37:58 PM 10/25/2017 mplummer pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\78029166-K.sht

DODGE RIVERSIDE DR.

I-480 RAMP C

SB FRONTAGE RD.

EB W BROADWAY

I-480 RAMP F

I-480 RAMP H

I-480 RAMP A

WB W BROADWAY

I-29

NB FRONTAGE RD

W BROADWAY

8545

8550

8555

POC Sta. 543+95.23
= POC Sta. 8544+48.18

POC Sta. 8551+38.87
= POC Sta. 4199+35.85

POC Sta. 8553+67.02
= POC Sta. 6546+33.64

POT Sta. 9030+24.06
= POC 8549+83.66

KANE TWP
T-75 R-44W
SEC.33

KANE TWP
T-75 R-44W
SEC.28

Curve Data
Δ = 100° 00' 54.81" (LT)
T = 1,430.49
L = 2,094.71
R = 1,200.00
E = 667.16
e = 5.0%
L = 192'
X = 77'
m = 57.6'

0 50
FEET

I-480 RAMP H

FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER K.22

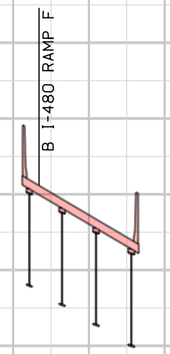
1:38:00 PM 10/25/2017 mplummer pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\78029166-K.sht

+4.760%

VPI +00.000
Elv 1,057.17
K = 102
Len 1,000.00 ft

-5.000%

Direction of travel



VPI +50.000
Elv 1,009.67
K = 100
Len 400.00 ft

-5.000%

-1.000%

℄ I-29

℄ SB FRONTAGE RD.

℄ EB W BROADWAY

I-480 RAMP H

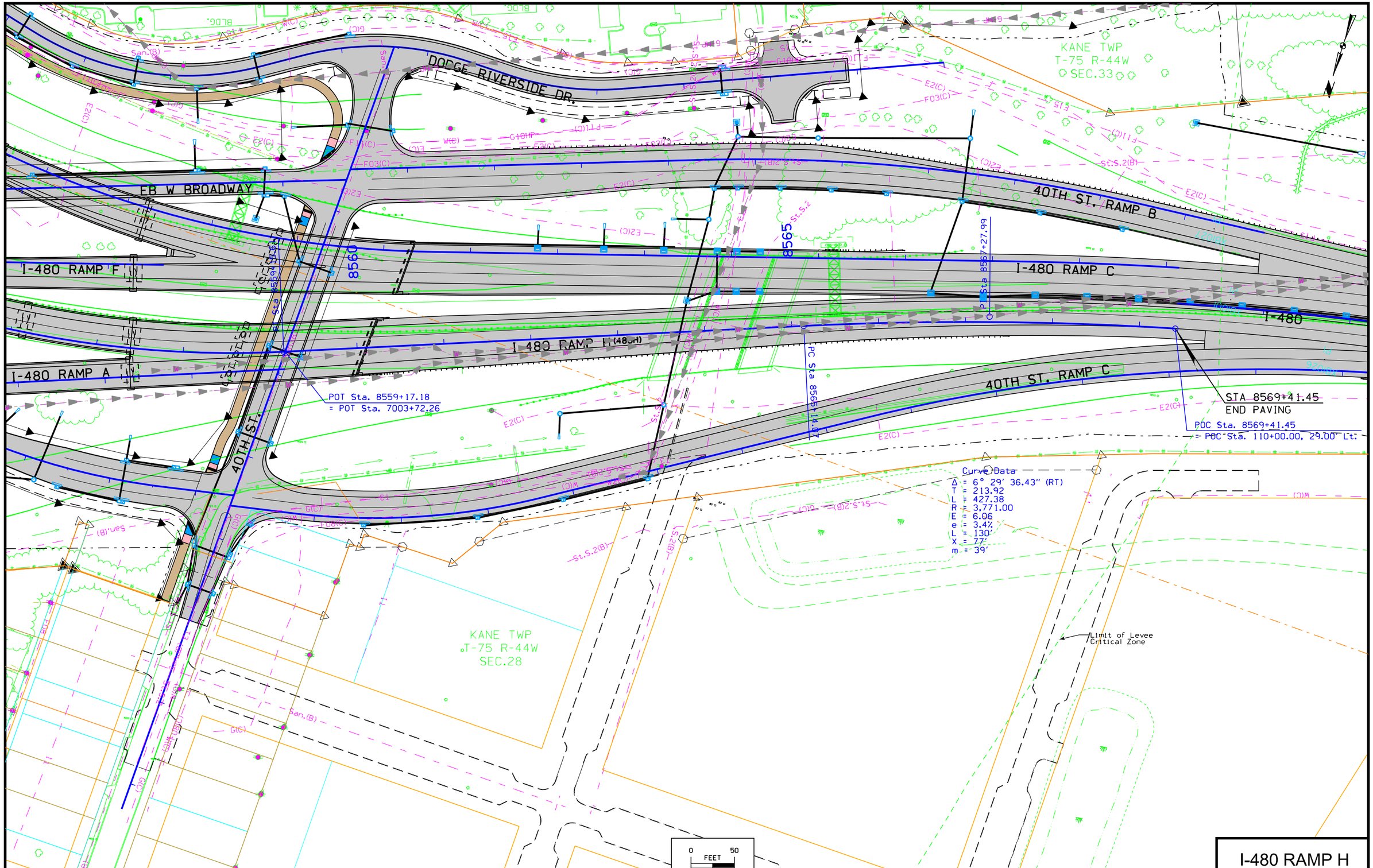
1060 1055 1050 1045 1040 1035 1030 1025 1020 1015 1010 1005 1000 995 990 985 980 975

1,042.76 1,043.25 1,043.68 1,044.05 1,044.35 1,044.60 1,044.78 1,044.90 1,044.96 1,044.97 1,044.90 1,044.78 1,044.60 1,044.36 1,044.05 1,043.69 1,043.26 1,042.77 1,042.22 1,041.62 1,040.94 1,040.21 1,039.42 1,038.57 1,037.65 1,036.68 1,035.64 1,034.54 1,033.38 1,032.17 1,030.92 1,029.67 1,028.42 1,027.17 1,025.92 1,024.67 1,023.42 1,022.17 1,020.92 1,019.67 1,018.45 1,017.29 1,016.20 1,015.17 1,014.20 1,013.29 1,012.45 1,011.67 1,010.95 1,010.29 1,009.70 1,009.17 1,008.70 1,008.29 1,007.95 1,007.67 1,007.42 1,007.17 1,006.92 1,006.67

8543 8544 8545 8546 8547 8548 8549 8550 8551 8552 8553 8554 8555 8556 8557

FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER K.23

1:38:02 PM 10/25/2017 mplummer pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\78029166-K.sht



I-480 RAMP H

FILE NO.	ENGLISH	DESIGN TEAM Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER IM-029-3(166)54--13-78	SHEET NUMBER K.24

1:38:04 PM 10/25/2017 mplummer pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\78029166-K.sht

End Paving
Sta. 8569+41.45
Elev. 1004.95

-1.000%

+1.186%

VPI +75.000
Elv 999.42
K = 137
Len 300.00 ft

Direction of travel

℄ 40TH ST.

℄ 41ST ST.

I-480 RAMP H

Lt
Rt

Variable - V-Ditch

40th St. Ramp C Variable - V-Ditch

No Ditch

1,006.67	1,006.42	1,006.17	1,005.92	1,005.67	1,005.42	1,005.17	1,004.92	1,004.67	1,004.42	1,004.17	1,003.92	1,003.67	1,003.42	1,003.17	1,002.92	1,002.67	1,002.42	1,002.17	1,001.92	1,001.67	1,001.42	1,001.17	1,000.92	1,000.69	1,000.51	1,000.37	1,000.28	1,000.23	1,000.23	1,000.28	1,000.37	1,000.51	1,000.69	1,000.92	1,001.19	1,001.49	1,001.79	1,002.08	1,002.38	1,002.68	1,002.97	1,003.27	1,003.57	1,003.86	1,004.16	1,004.45	1,004.75
8558							8559								8560								8561								8562								8563								8564								8565								8566								8567								8568								8569							

FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER K.25

1:34:06 PM 10/25/2017 mplummer pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\78029166-K.sht

Sta. 1570+75
24" Dia. x 97' Length
F.L. = Lt. = 975.47
Rt. = 975.13

PI Sta 1573+53.98

AVE. G

AVE. G RAMP A (AVEGA)

BENSON ST.

SB FRONTAGE RD.

POT Sta. 1567+65.39
= POT Sta. 6002+82.68

102°59'52"

102°59'52"

STA 1567+79.76
BEGIN PAVING

Curve Data
Δ = 55° 44' 46.42" (RT)
T = 423.10
L = 778.36
R = 800.00
E = 104.99

PC
e = 6.0%
L = 186'
X = 62'
m = 55.8'

PT
e = 6.0%
L = 155'
X = 52'
m = 46.5'

PT Sta 1577+09.24

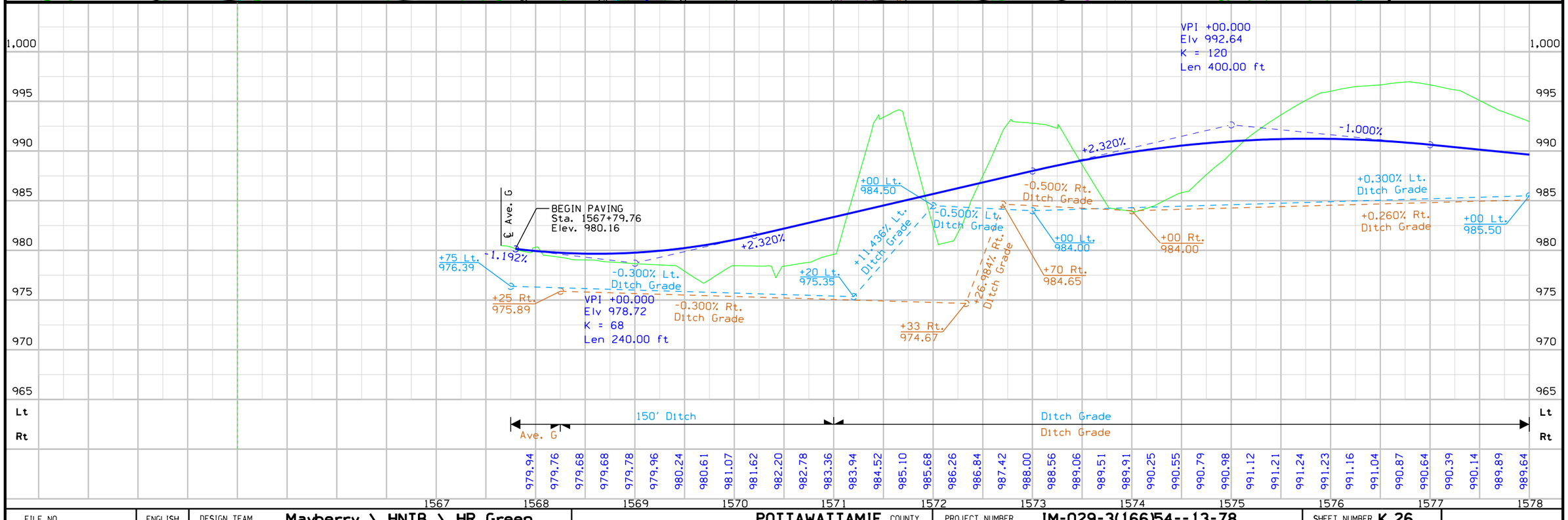
Levee Easement

Limit of Levee Critical Zone

KANE TWP
T-75 R-44W
SEC.28

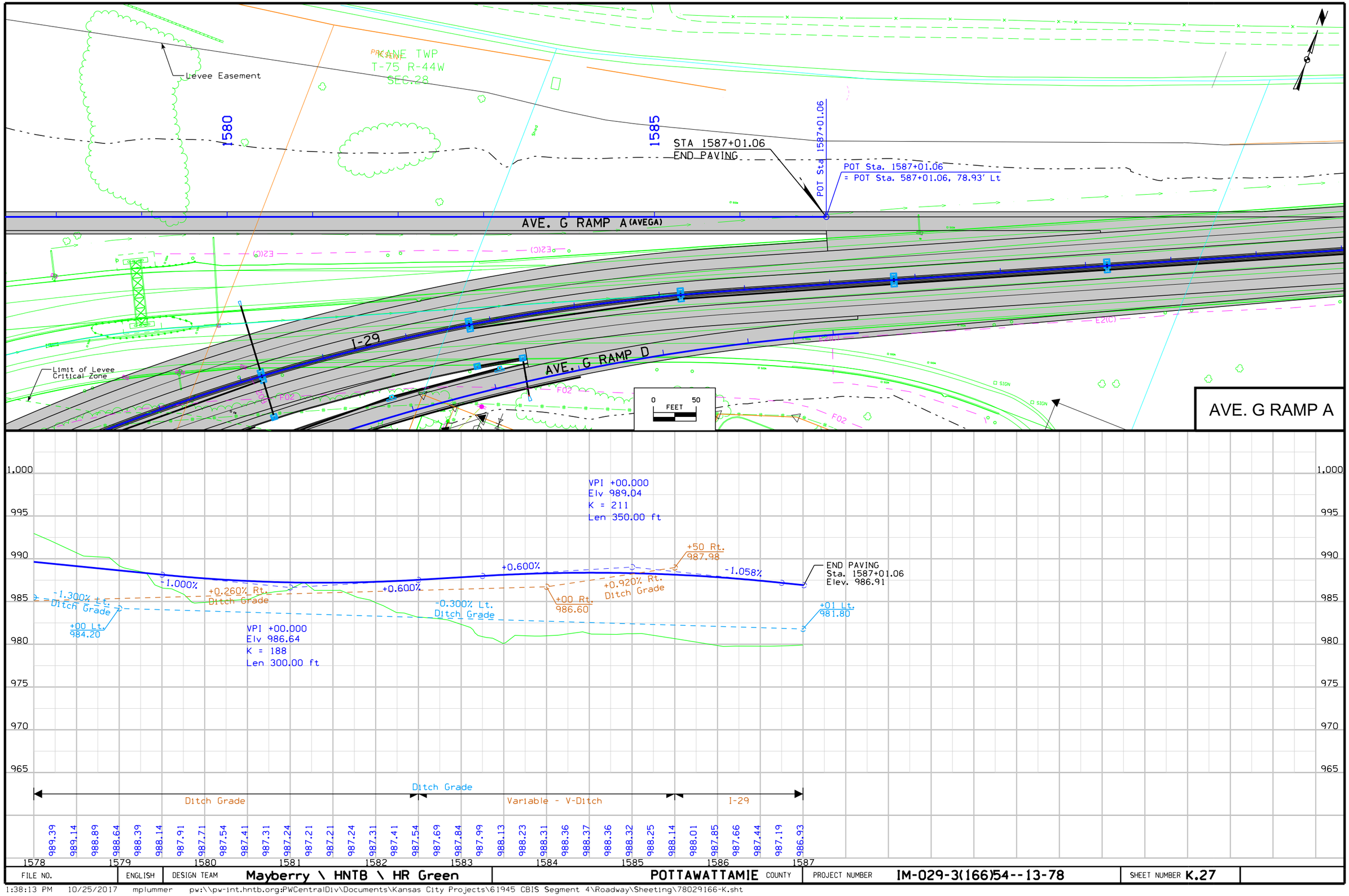
0 FEET 50

AVE. G RAMP A



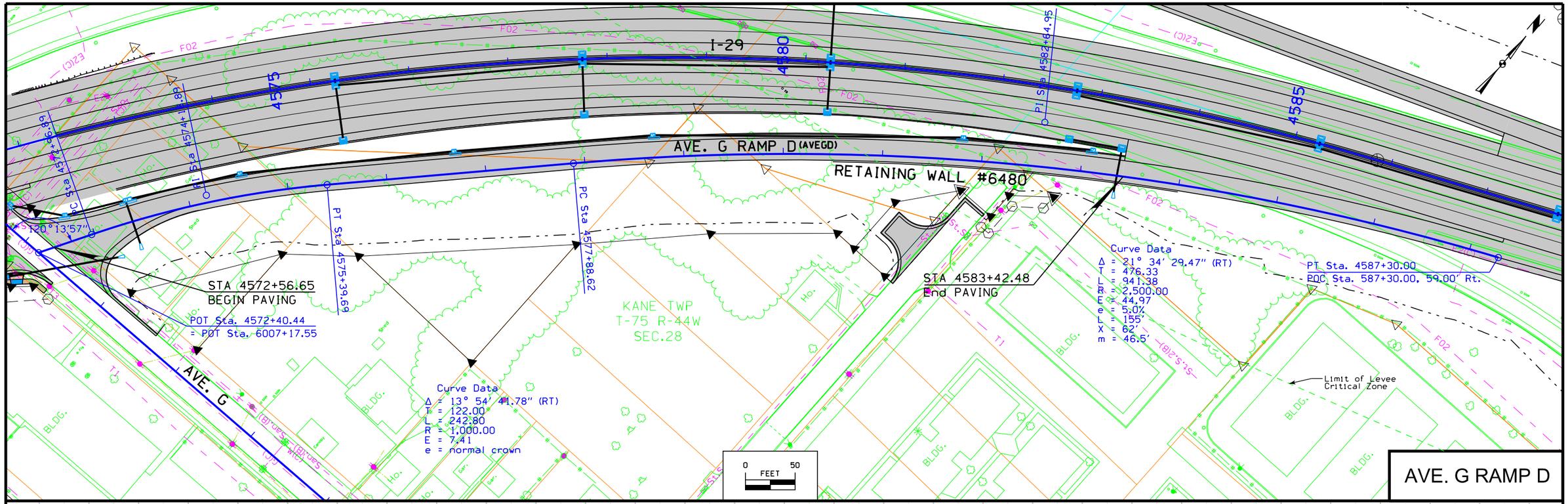
FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER K.26

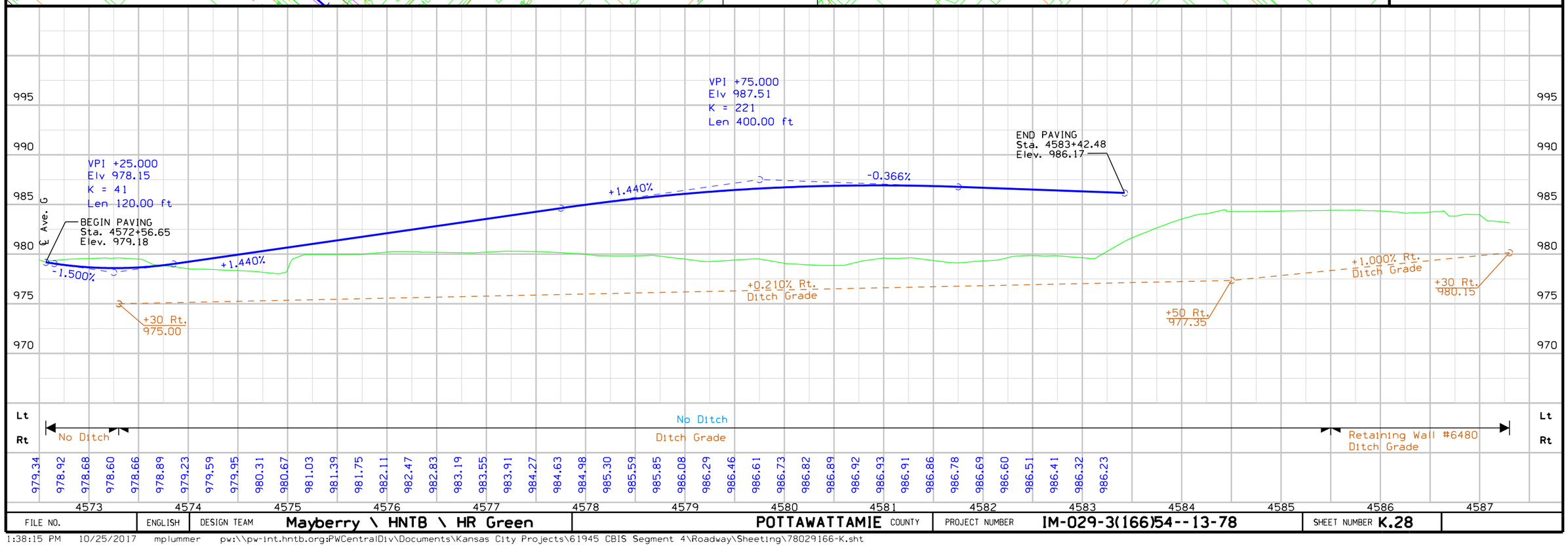
1:38:10 PM 10/25/2017 mplummer pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\78029166-K.sht



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER K.27

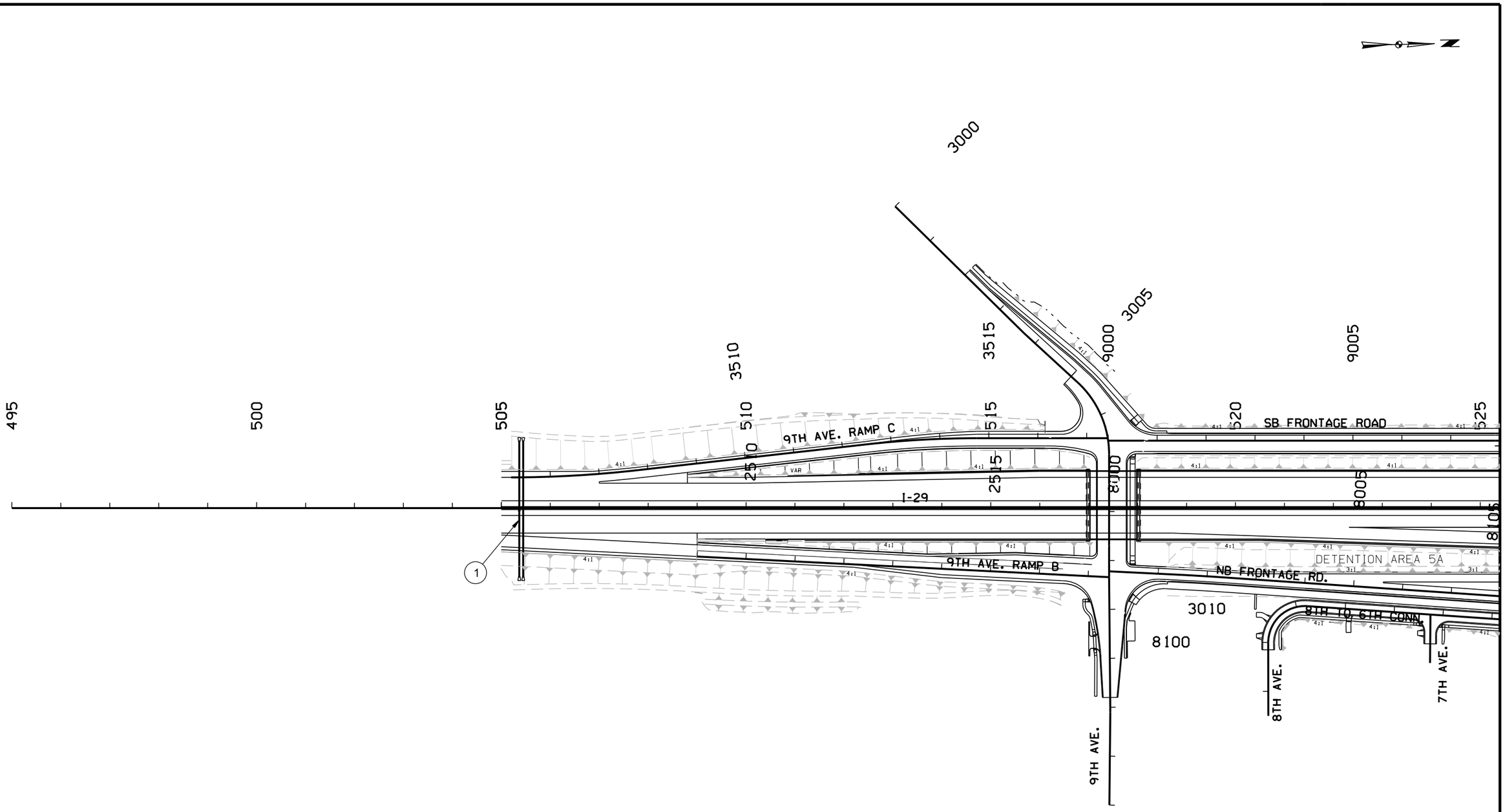
1:38:13 PM 10/25/2017 mplummer pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\78029166-K.sht





FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER K.28

1:38:15 PM 10/25/2017 mplummer pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\78029166-K.sht

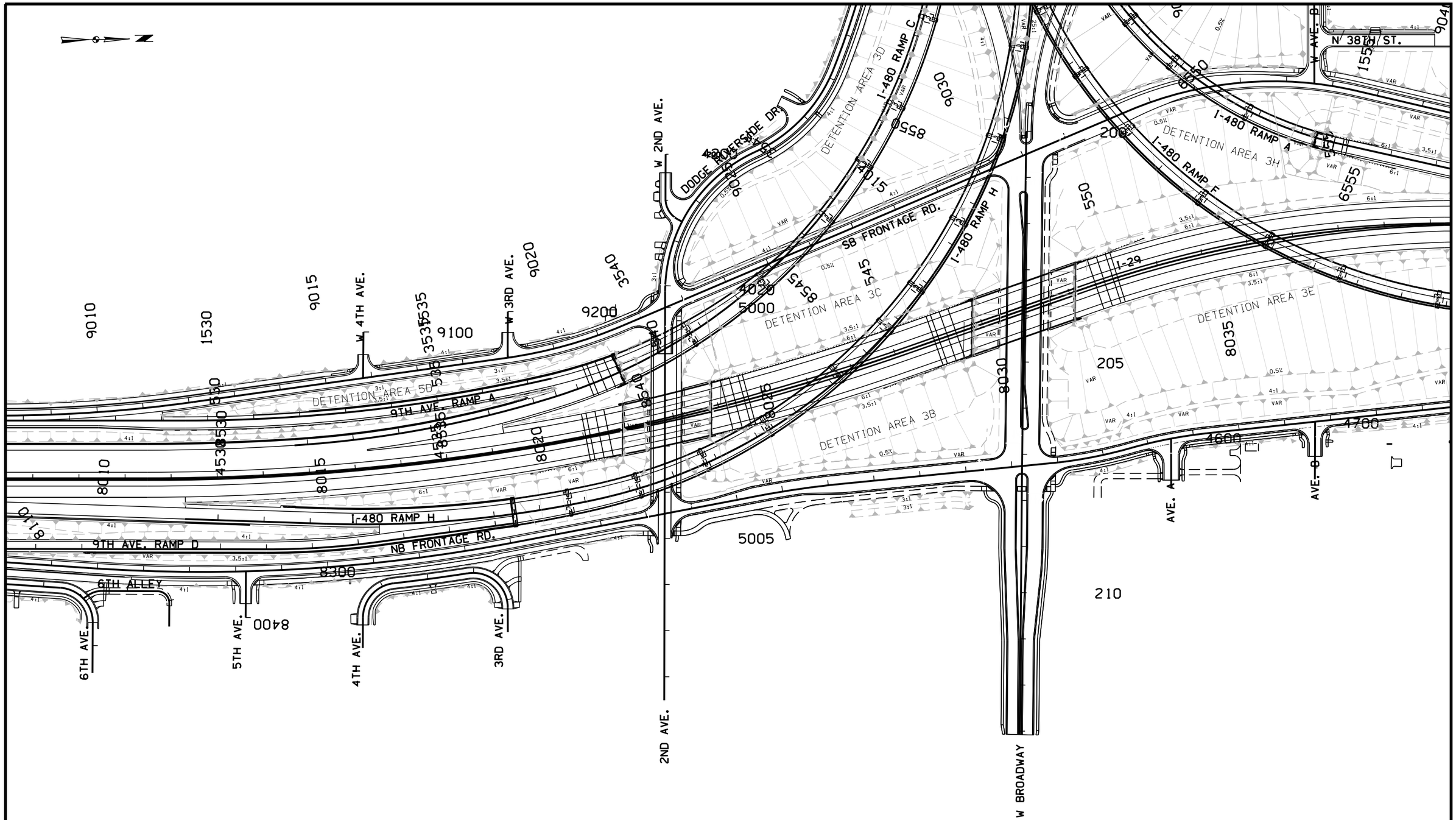


TABULATION OF PROPOSED DRAINAGE STRUCTURES						
NO.	STATION	SIZE	TYPE	FLOWLINES		
				LEFT	RIGHT	OTHER
1	505+30	2-36"	R.C.P.	972.44'	972.46'	

0 100
FEET

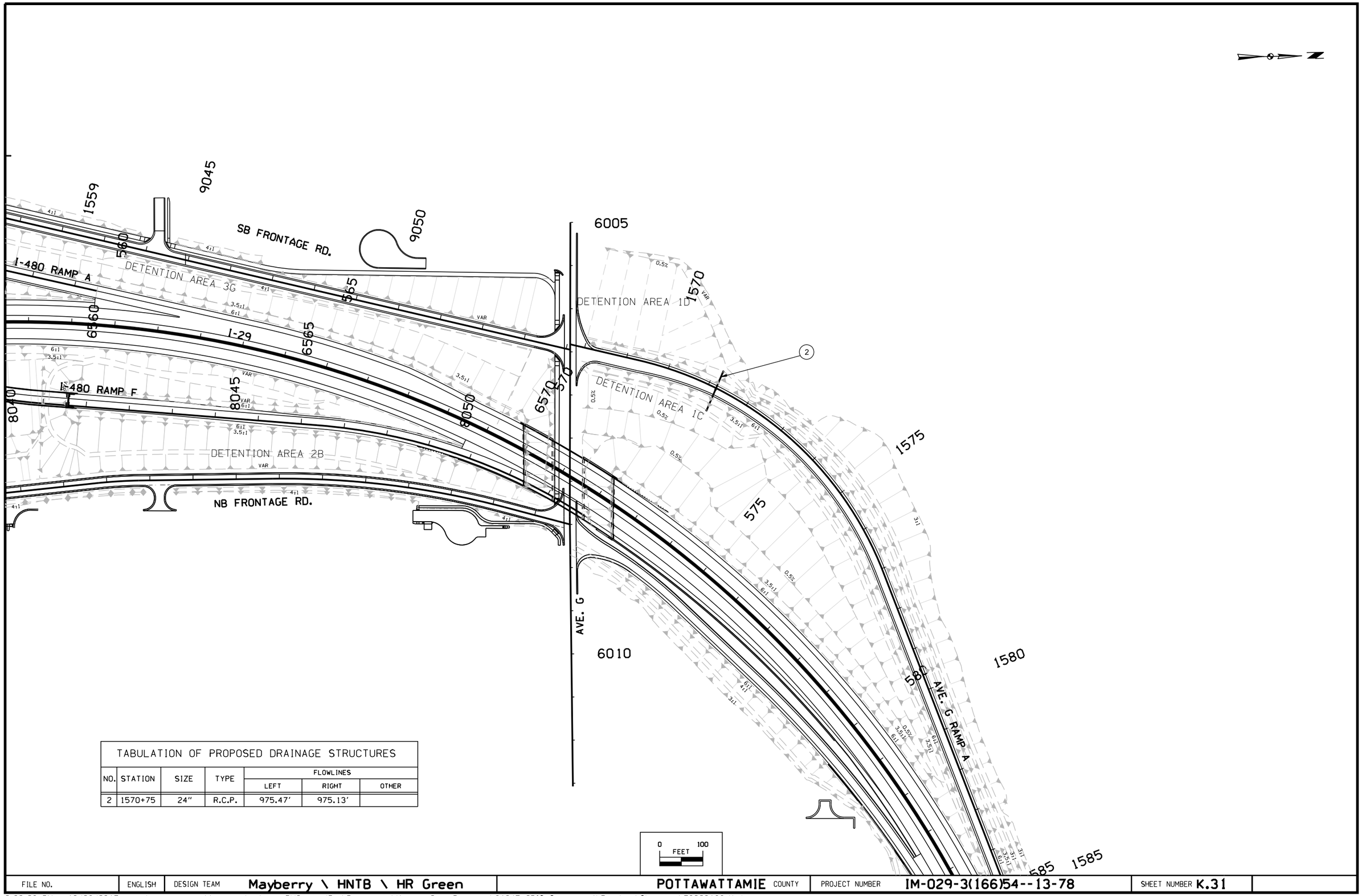
FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER K.29

1:38:17 PM 10/25/2017 mplummer pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\78029166-K.sht



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER K.30

1:38:20 PM 10/25/2017 mplummer pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\78029166-K.sht

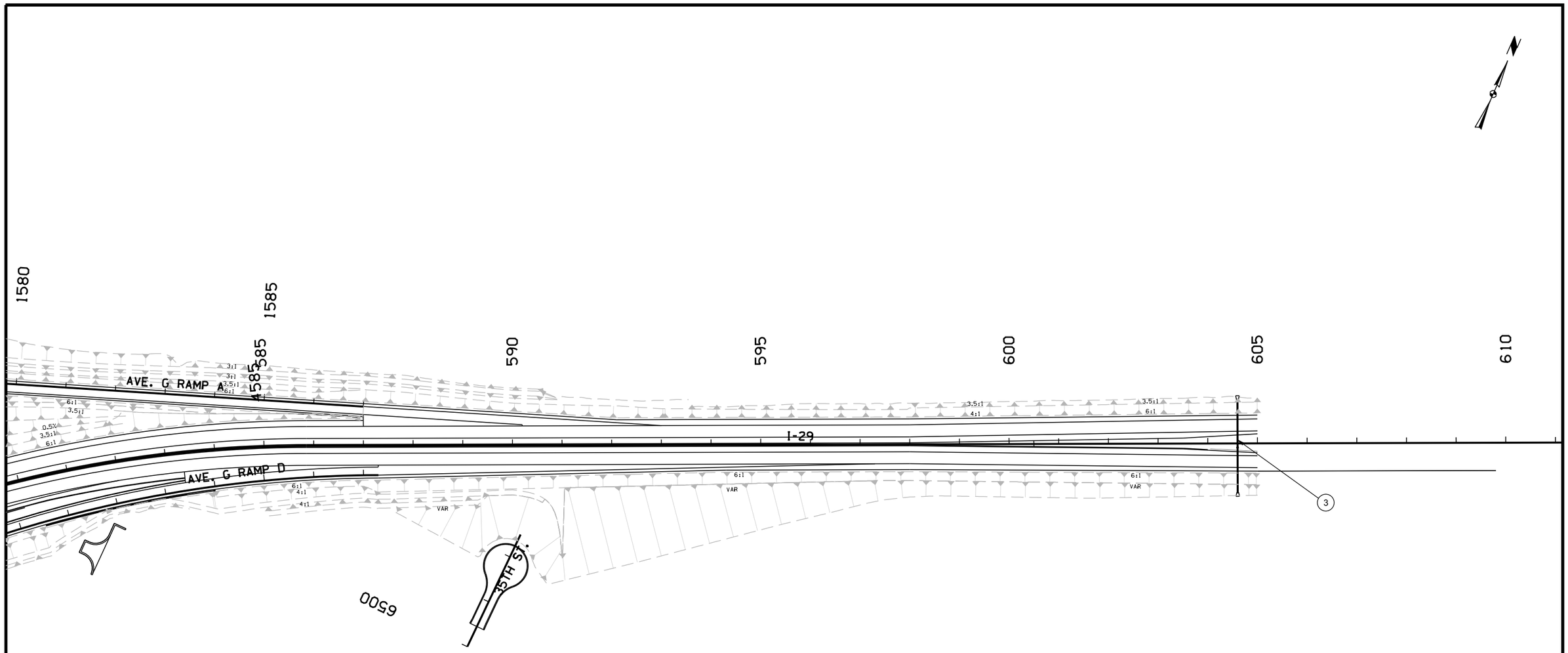


TABULATION OF PROPOSED DRAINAGE STRUCTURES

NO.	STATION	SIZE	TYPE	FLOWLINES		
				LEFT	RIGHT	OTHER
2	1570+75	24"	R.C.P.	975.47'	975.13'	

FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER K.31

2:03:28 PM 10/26/2017 mplummer pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\7802916G-K.sht

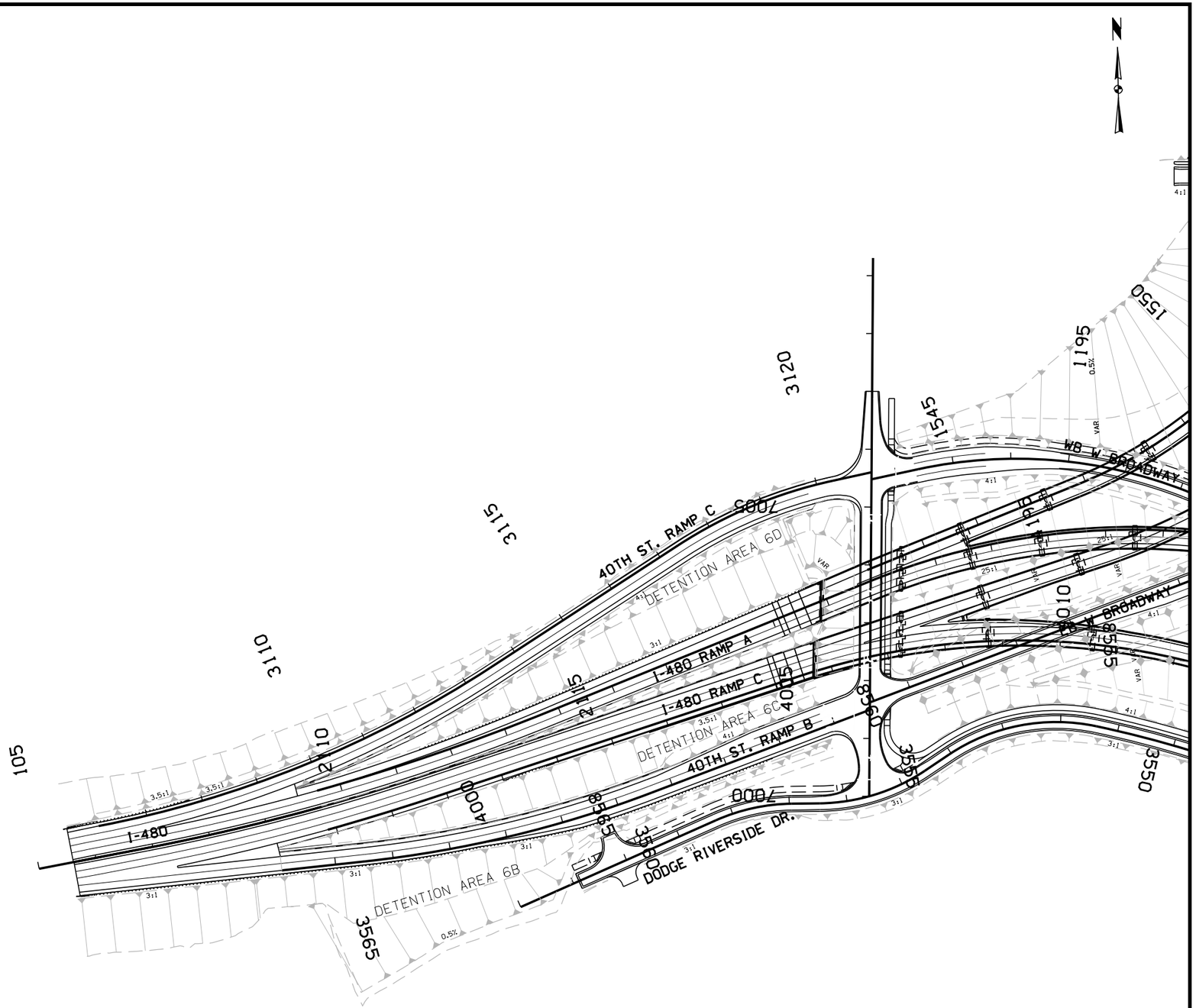


TABULATION OF PROPOSED DRAINAGE STRUCTURES						
NO.	STATION	SIZE	TYPE	FLOWLINES		
				LEFT	RIGHT	OTHER
3	604+60	48"	R.C.P.	973.80'	974.00'	

0 FEET 100

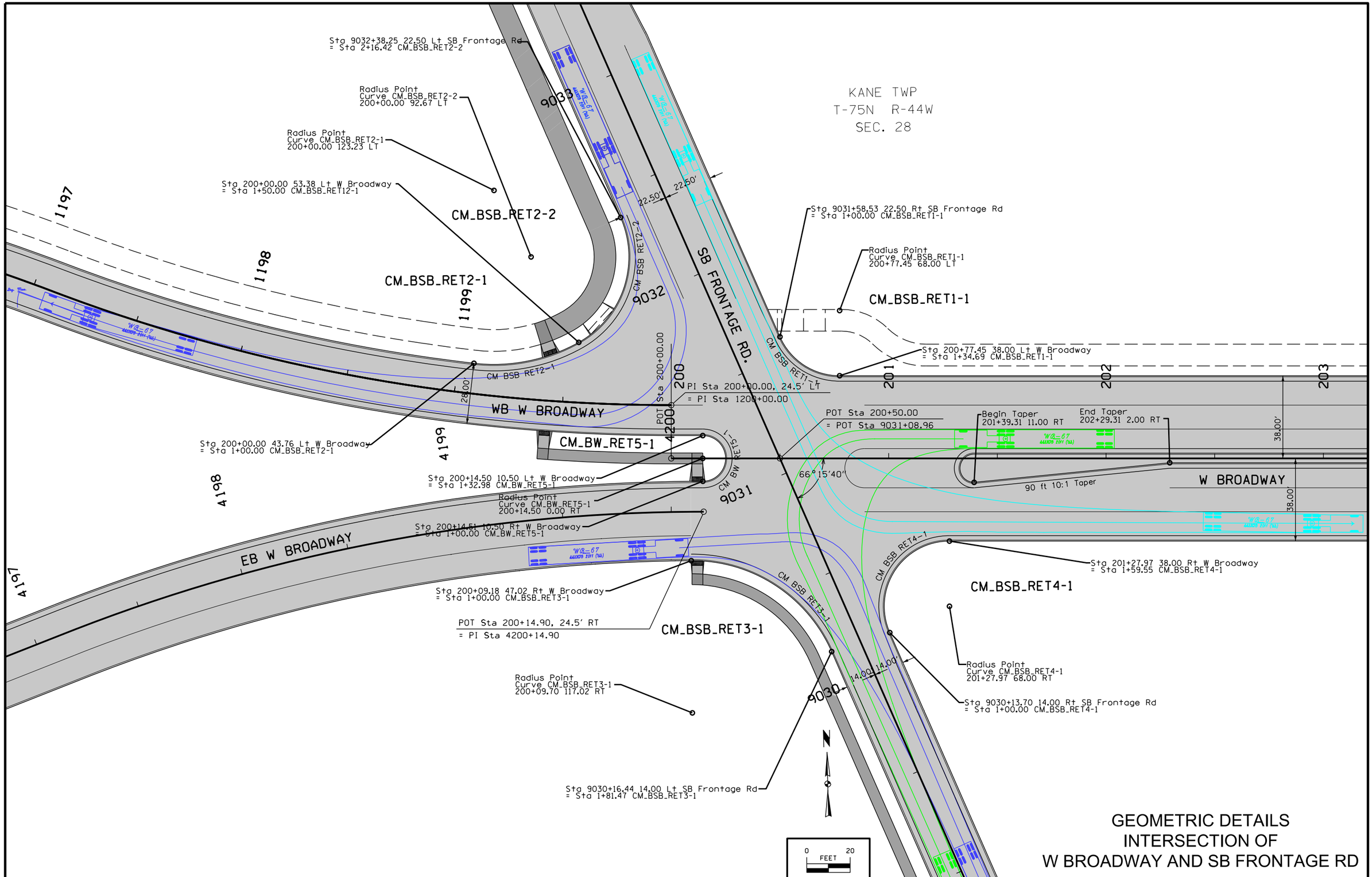
FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER K.32

1:38:24 PM 10/25/2017 mplummer pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\78029166-K.sht



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER K.33	

1:38:26 PM 10/25/2017 mplummer pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\7802916G-K.sht



GEOMETRIC DETAILS
INTERSECTION OF
W BROADWAY AND SB FRONTAGE RD

FILE NO.	ENGLISH	DESIGN TEAM Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER IM-029-3(166)54--13-78	SHEET NUMBER L.1

10:38:00 AM 10/26/2017 jlastov pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\+HR_Green\Design-HR Green\Sheeting-HR Green\78029166-HRG-L10.sht

KANE TWP
T-75N R-44W
SEC. 28

14.00' 14.00

8032

Sta 8031+27.28 14.00 Rt NB Frontage Rd
= Sta 1+00.00 CM_BNB_RET1-1

Radius Point
Curve CM_BNB_RET1-1
207+96.56 117.00 LT

Sta 8030+95.43 14.00 Lt NB Frontage Rd
= Sta 1+21.49 CM_BNB_RET2-1

CM_BNB_RET2-1

CM_BNB_RET1-1

NB FRONTAGE RD.

8031

Radius Point
Curve CM_BNB_RET2-1
206+73.52 68.00 LT

Sta 206+73.52 38.00 Lt W Broadway
= Sta 1+00.00 CM_BNB_RET2-1

Sta 207+96.56 47.00 Lt W Broadway
= Sta 1+99.54 CM_BNB_RET1-1

Begin Taper
209+03.88 47.00 LT

End 25:1 Taper
Begin 10:1 Taper
Sta 209+53.71 45.01 LT

End Taper
211+03.78 30.00 LT

205 206 207 208 209 210 211

50 ft 25:1 Taper

150 ft 10:1 Taper

End Taper
206+37.69 13.50 LT

PI Sta 207+25.46
= POT Sta 8030+22.04

90 ft 10:1 Taper

4.00' 38.00' 18.00' 22.00' 47.00' 6.00'

96°08'14"

200 ft 25:1 Taper

End Taper
211+03.16 3.00 LT

Begin Taper
209+03.16 11.00 LT

W BROADWAY

Begin Taper
205+47.70 4.50 LT

96°25'50"

Begin Taper
209+03.16 11.00 RT

200 ft 25:1 Taper

End Taper
211+03.16 3.00 RT

38.00' 38.00'

8030

200 ft 25:1 Taper

Sta 206+80.29 38.00 Rt W Broadway
= Sta 1+00.00 CM_BNB_RET3-1

CM_BNB_RET3-1

Sta 208+30.04 38.00 Rt W Broadway
= Sta 2+17.38 CM_BNB_RET4-1

Begin Taper
209+03.70 38.00 RT

End Taper
211+03.70 30.00 RT

CM_BNB_RET4-1

Radius Point
Curve CM_BNB_RET3-1
206+80.29 68.00 RT

Sta 8029+59.49 22.50 Lt NB Frontage Rd
= Sta 1+08.07 CM_BNB_RET3-1

Radius Point
Curve CM_BNB_RET4-1
208+30.04 108.00 RT

8029

Sta 8029+03.58 22.50 Rt NB Frontage Rd
= Sta 1+00.00 CM_BNB_RET4-1

22.50' 22.50'

0 20
FEET

GEOMETRIC DETAILS
INTERSECTION OF
W BROADWAY AND NB FRONTAGE RD

FILE NO.	ENGLISH	DESIGN TEAM Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER IM-029-3(166)54--13-78	SHEET NUMBER L.2

10:38:02 AM 10/26/2017 jlastov pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\+HR_Green\Design-HR Green\Sheeting-HR Green\78029166-HRG-L10.sht

KANE TWP
T-75N R-44W
SEC. 33

Radius Point
Curve CM_9SB_RET2-1
9000+97.90 85.42 LT

CM_9SB_RET2-1

Sta 9000+97.90 15.42 Lt SB Frontage Rd
= Sta 2+54.48 CM_9SB_RET2-1

Sta 9000+43.41 41.48 Lt SB Frontage Rd
= Sta 1+92.02 CM_9SB_RET2-1

POC Sta 3006+55.03
= PI Sta 9000+01.17

9001

15.42'

27.00'

16.00'

SB FRONTAGE RD.

Sta 9000+58.95 27.00 Rt SB Frontage Rd
= Sta 1+00.00 CM_9SB_RET1-1

Radius Point
Curve CM_9SB_RET1-1
3007+02.12 57.00 Lt

CM_9SB_RET1-1

Sta 3007+02.12 37.00 Lt 9th Ave
= Sta 1+31.42 CM_9SB_RET1-1

CM 9SB RET2-1

CM 9SB RET1-1

3007

3008

3006

9000

14.00'

11.00'

37.00'

4.00'

81°59'12"

99°27'46"

26.00'

9TH AVE.

11.00'

3517

Sta 3007+01.32 26.00 Rt 9th Ave
= Sta 2+07.24 CM_9C_RET4-2

CM 9C RET4-2

1-29

CM_9C_RET4-2

Radius Point
Curve CM_9C_RET4-2
Sta 3007+01.32 46.00 Rt

End Taper
Sta 3004+80.16 30.50 LT

3005

CM 9C RET3-1

POC Sta 3006+49.97
= PI Sta 3517+43.07

CM_9C_RET3-1

Sta 3517+05.14 31.93 Rt 9th Ave Ramp C
= Sta 1+81.24 CM_9C_RET4-1

CM 9C RET4-1

9TH AVE. RAMP C

Sta 3516+24.89 21.00 Rt
= Sta 1+00.00 CM_9C_RET4-1

CM_9C_RET4-1

Radius Point
Curve CM_9C_RET4-1
Sta 3516+24.89 321.00 Rt

3004

9TH AVE.

11.00'

18.00'

17.00'

21.00'

14.00'

3516

Sta 3005+48.98 26.69 Rt
= Sta 1+00.00 CM_9C_RET3-1

RADIUS POINT
CURVE CM_9C_RET3-1
3005+41.55 66.29 RT

Sta 3516+47.43 14.00 Lt 9th Ave Ramp C
= Sta 1+84.66 CM_9C_RET3-1

Sta 3005+00.00 22.50 Rt

Begin Taper
Sta 3002+54.51 15.50 LT

3003

225 ft 20:1 Taper

3515

3002

0 20
FEET

GEOMETRIC DETAILS
INTERSECTION OF
9TH AVE AND 9TH AVE RAMP C

FILE NO.	ENGLISH	DESIGN TEAM Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER IM-029-3(166)54--13-78	SHEET NUMBER L.3

10:38:05 AM 10/26/2017 jlastov pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\+HR_Green\Design-HR Green\Sheeting-HR Green\78029166-HRG-L10.sht

KANE TWP
T-75N R-44W
SEC. 33

8002

Sta 8001+02.11 26.00 Rt NB Frontage Rd
= Sta 1+00.00 CM_9NB_RET1-1

Radius Point
Curve CM_9NB_RET1-1
3010+08.43 98.48 Lt

CM_9NB_RET2-1

15.00'

26.98'

3.46'

15.42'

8001

Sta 8000+46.01 2.00 Lt NB Frontage Rd
= Sta 1+15.21 CM_9NB_RET2-1

Radius Point
Curve CM_9NB_RET2-1
Sta 3008+99.44 47.00 LT

Sta 3008+99.44 37.00 Lt 9th Ave
= Sta 1+00.00 CM_9NB_RET2-1

NB FRONTAGE RD.

CM_9NB_RET1-1

PI Sta 3009+22.12
= PI Sta 7999+99.56

Sta 3010+01.96 33.80 Lt 9th Ave
= Sta 1+99.42 CM_9NB_RET1-1

CM_9NB_RET2-1

CM_9NB_RET1-1

3009

3010

3011

3012

3013

3014

167 ft 10:1 Taper

37.00'

9TH AVE.

92°51'45"

86°39'16"

8000

87°08'15"

93°20'44"

26.00'

16.00'

16.00'

9TH AVE.

POT Sta 3014+00.00

CM_9B_RET4-2

Sta 3010+99.61 20.02 Rt 9th Ave
= Sta 2+89.80 CM_9B_RET4-2

CM_9B_RET4-2

Sta 3009+92.02 36.17 Rt 9th Ave
= Sta 1+80.83 CM_9B_RET4-2

CM_9B_RET4-1

CM_9B_RET4-1

Sta 3008+81.27 26.00 Rt 9th Ave
= Sta 1+16.21 CM_9B_RET3-1

Radius Point
Curve CM_9B_RET3-1
3008+81.27 36.00 Rt

Sta 3008+91.26 36.50 Rt 9th St
= Sta 1+00.00 CM_9B_RET3-1

CM_9B_RET3-1

2517

9TH AVE. RAMP B

PI Sta 3009+34.14
= PI Sta 2517+42.85

Radius Point
Curve CM_9B_RET4-2
3011+27.08 569.33 Rt

Radius Point
Curve CM_9B_RET4-1
2516+52.92 78.00 Rt

17.00'

24.00'

18.00'

Sta 2516+52.92 18.00 Rt 9th Ave Ramp B
= Sta 1+04.97 CM_9B_RET4-1

2516

N

0 20
FEET

GEOMETRIC DETAILS
INTERSECTION OF
9TH AVE AND 9TH AVE RAMP B

FILE NO.	ENGLISH	DESIGN TEAM Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER IM-029-3(166)54--13-78	SHEET NUMBER L.4

10:38:07 AM 10/26/2017 jlastov pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\+HR_Green\Design-HR Green\Sheeting-HR Green\78029166-HRG-L10.sht

KANE TWP
T-75N R-44W
SEC. 33

Radius Point
Curve CM_D2_RET2-1
4019+31.00 114.00 LT

Sta 4019+31.00 14.00 Lt Dodge Riverside Rd
= Sta 1+00.00 CM_D2_RET2-1

Sta 4019+82.63 22.52 Lt Dodge Riverside Rd
= Sta 1+50.00 CM_D2_RET2-1

Sta 9023+33.56 14.00 Lt SB Frontage Rd
= Sta 2+01.58 CM_D2_RET2-2

Sta 9023+02.32 14.00 Rt SB Frontage Rd
= Sta 1+00.00 CM_D2_RET1-1

Radius Point
Curve CM_D2_RET1-1
5000+41.19 66.50 LT

Sta 5000+41.19 16.50 Lt 2nd Ave
= Sta 1+58.35 CM_D2_RET1-1

CM_D2_RET2-2

Radius Point
Curve CM_D2_RET2-2
4019+70.66 50.57 LT

CM_D2_RET2-1

CM_D2_RET1-1

9024

9023

5000

5001

5002

14.00' 14.00'

CM_D2_RET2-1

PI Sta 5000+00.00
= POT Sta 9022+57.35
= PI Sta 4020+47.51

DODGE RIVERSIDE DR.

16.50' 16.50'

66°51'59"

2ND AVE.

CM_D2_RET3-1

CM_D2_RET3-2

CM_D2_RET4-1

SB FRONTAGE RD.

Sta 4020+10.72 14.03 Rt Dodge Riverside Rd
= Sta 1+00.00 CM_D2_RET3-1

Radius Ponit
Curve CM_D2_RET3-1
4020+10.75 44.00 RT

Sta 4020+31.67 22.72 Rt Dodge Riverside Rd
= Sta 1+23.31 CM_D2_RET3-2

Sta 5000+82.86 16.50 Rt 2nd Ave
= Sta 1+78.98 CM_D2_RET4-1

Radius Point
Curve CM_D2_RET4-1
5000+82.86 56.50 RT

9022

14.00'

Sta 9021+72.84 14.00 Rt SB Frontage Rd
= Sta 1+00.00 CM_D2_RET4-1

Sta 9021+93.91 14.00 Lt SB Frontage Rd
= Sta 1+73.31 CM_D2_RET3-2

Radius Point
Curve CM_D2_RET3-2
4019+59.08 120.74 RT

9021

N

0 20
FEET

GEOMETRIC DETAILS
INTERSECTION OF
2ND AVE AND SB FRONTAGE RD

FILE NO.	ENGLISH	DESIGN TEAM Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER IM-029-3(166)54--13-78	SHEET NUMBER L.5

10:38:09 AM 10/26/2017 jlastov pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\+HR_Green\Design-HR Green\Sheeting-HR Green\78029166-HRG-L10.sht

KANE TWP
T-75N R-44W
SEC. 33

End Taper
8024+35.00 22.50 LT

8024

85 ft 10:1 Taper

Begin Taper
8023+50.00 14.00 LT

Sta 8023+07.76 14.00 Lt NB Frontage Rd
= Sta 1+70.45 CM_2NB_RET2-1

14.00 14.00

NB FRONTAGE RD.

Sta 8022+95.20 14.00 Rt NB Frontage Rd
= Sta 1+00.00 CM_2NB_RET1-1

Radius Point
Curve CM_2NB_RET1-1
5004+98.95 66.50 LT

CM_2NB_RET2-1

Radius Point
Curve CM_2NB_RET2-1
5003+80.71 56.50 LT

Sta 5003+80.71 16.50 Lt 2nd Ave
= Sta 1+00.00 CM_2NB_RET2-1

8023

CM_2NB_RET1-1

5003 5004 5005 5006 5007 5008

CM_2NB_RET2-1

CM_2NB_RET1-1

Sta 5004+98.95 16.52 Lt 2nd Ave
= Sta 1+69.02 CM_2NB_RET1-1

16.50'

2ND AVE.

POT Sta 5004+46.59
= POT Sta 8022+39.81

79°05'30"

16.50'

Sta 5005+12.47 16.50 Rt 2nd Ave
= Sta 1+70.45 CM_2NB_RET4-1

CM_2NB_RET4-1

Sta 5003+94.23 16.50 Rt 2nd Ave
= Sta 1+00.00 CM_2NB_RET3-1

CM_2NB_RET3-1

8022

CM_2NB_RET4-1

14.00 14.00

Radius Point
Curve CM_2NB_RET4-1
5005+12.47 56.50 RT

Radius Point
Curve CM_2NB_RET3-1
5003+94.23 66.50 RT

Sta 8021+71.87 14.00 Rt NB Frontage Rd
= Sta 1+00.00 CM_2NB_RET4-1

Sta 8021+84.42 14.00 Lt NB Frontage Rd
= Sta 1+69.02 CM_2NB_RET3-1

8021

N

0 20
FEET

GEOMETRIC DETAILS
INTERSECTION OF
2ND AVE AND NB FRONTAGE RD

FILE NO.	ENGLISH	DESIGN TEAM Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER IM-029-3(166)54--13-78	SHEET NUMBER L.6

10:38:11 AM 10/26/2017 jlastov pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\+HR_Green\Design-HR Green\Sheeting-HR Green\78029166-HRG-L10.sht

Radius Point
CM_AGA_RET2-1
6001+77.46 216.50 LT

KANE TWP
T-75N R-44W
SEC. 28

I569

Sta 6002+91.35 64.20 Lt Ave G
= Sta 2+30.31 CM_AGA_RET2-2

Radius Point
CM_AGA_RET2-2
6002+57.24 72.02 LT

CM_AGA_RET2-2

Sta 6002+74.17 41.44 Lt Ave G
= Sta 2+00.94 CM_AGA_RET2-1

I569

6000 6001 6002 6003 6004 6005

Sta 6001+77.46 16.50 Lt Ave G
= Sta 1+00.00 CM_AGA_RET2-1

CM_AGA_RET2-1

CM AGA RET2-1

AVE. G RAMP A

Sta 6003+26.43 65.03 Lt Ave G
= Sta 1+00.00 CM_AGA_RET1-1

Radius Point
Curve CM_AGA_RET1-2
6003+78.51 81.18 LT

Radius Point
Curve CM_AGA_RET1-1
6003+60.54 57.16 LT

CM_AGA_RET1-1

CM AGA RET1-1

Sta 6003+39.57 29.14 Lt Ave G
= Sta 1+40.43 CM_AGA_RET1-2

Sta 6003+78.64 16.18 Lt Ave G
= Sta 1+82.32 CM_AGA_RET1-2

CM AGA RET1-2

CM_AGA_RET1-2

POT Sta 6002+82.68
= PI Sta 1567+65.40

77°00'08"

AVE. G

9054

77°00'08"

POT Sta 6002+95.00
= PI Sta 9054+09.36

CM SBG RET3-1

CM SBG RET4-1

BENSON ST.

SB FRONTAGE RD.

Sta 6002+13.97 16.50 Rt Ave G
= 1+00.00 CM_SBG_RET3-1

CM_SBG_RET3-1

Sta 6003+45.32 16.50 Rt Ave G
= Sta 1+68.35 CM_SBG_RET4-1

CM_SBG_RET4-1

Radius Point
CM_SBG_RET4-1
6003+45.32 66.50 RT

Sta 9053+54.73 14.00 Rt SB Frontage Rd
= 1+00.00 CM_SBG_RET4-1

Radius Point
CM_SBG_RET3-1
6002+13.97 66.50 RT

9053

Sta 9053+26.36 14.00 Lt SB Frontage Rd
= 1+89.86 CM_SBG_RET3-1

0 20
FEET

GEOMETRIC DETAILS
INTERSECTION OF
AVE G AND SB FRONTAGE RD

FILE NO.	ENGLISH	DESIGN TEAM Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER IM-029-3(166)54--13-78	SHEET NUMBER L.7

10:38:14 AM 10/26/2017 jlastov pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\+HR_Green\Design-HR Green\Sheeting-HR Green\78029166-HRG-L10.sht

KANE TWP
T-75N R-44W
SEC. 28

6006
6007
6008
6009
6010
6011

4574
4573

AVE G RAMP D

AVE. G

POT Sta 6007+00.05
= PI Sta 8052+84.38

120°13'57"

POT Sta 6007+17.55
= PI Sta 4572+40.44

74°33'29"

CM_NFG_RET3-1

CM_NFG_RET4-1

Sta 6006+16.44 16.50 Rt Ave G
= Sta 1+00.00 CM_NFG_RET3-1

Sta 6007+48.08 16.50 Rt Ave G
= Sta 1+65.06 CM_NFG_RET4-1

CM_NFG_RET3-1

CM_NFG_RET4-1

NB FRONTAGE RD

8052

8051

Radius Point
Curve CM_NFG_RET3-1
6006+16.44 66.50 RT

Radius Point
Curve CM_NFG_RET4-1
6007+48.08 66.50 RT

Sta 8052+33.07 14.00 Rt NB Frontage Rd
= Sta 1+00.00 CM_NFG_RET4-1

Sta 8051+98.65 14.00 Lt NB Frontage Rd
= Sta 1+91.33 CM_NFG_RET3-1

N

0 20
FEET

GEOMETRIC DETAILS
INTERSECTION OF
AVE G AND SB FRONTAGE RD

FILE NO.	ENGLISH	DESIGN TEAM Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER IM-029-3(166)54--13-78	SHEET NUMBER L.8

10:38:16 AM 10/26/2017 jlastov pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\+HR_Green\Design-HR Green\Sheeting-HR Green\78029166-HRG-L10.sht

KANE TWP
T-75N R-44W
SEC. 28

4005
4006
4007
4008
7000
7001
7002
7003
2118
2119
CM_40B_RET2-1
CM_40B_RET3-1
CM_40D_RET4-1
CM_40D_RET1-1
CM_40D_RET1-2
40TH ST RAMP B
40TH ST (SR40TH)
DODGE RIVERSIDE DR
EB W BROADWAY
CM 40B RET3-1
CM 40B RET2-1
CM 40D RET4-1
CM 40D RET1-1
CM 40D RET1-2
40.00'
19.00'
14.00'
68°47'45"
74°02'38"

Sta 2118+86.69 14.00 Rt 40th St Ramp B
= Sta 1+00.00 CM_40B_RET3-1

Radius Point
Curve CM_40B_RET3-1
7000+80.00 57.57 LT

Sta 7000+94.38 31.24 Lt 40th St
= Sta 1+43.23 CM_40B_RET3-1

Sta 2119+32.49 38.00 LT 40th St Ramp B
= Sta 1+00.00 CM_40B_RET2-1

Sta 7002+10.30 59.00 LT

Sta 7002+10.30 19.00 Lt 40th St
= Sta 1+48.03 CM_40B_RET2-1

POT Sta 7001+49.53
= PI Sta 2119+65.44

POT Sta 7001+62.40
= PI Sta 4191+26.58

PI Sta 7000+00.00
= POC Sta 4006+39.34

Sta 7001+10.25 19.00 Rt 40th St
= Sta 1+04.08 CM_40D_RET4-1

Sta 4191+86.03 14.00 Rt 40th St Ramp D
= Sta 1+82.13 CM_40D_RET4-1

Radius Point
Curve CM_40D_RET4-1
7001+10.25 84.00 RT

Sta 7002+22.51 19.00 Rt 40th St
= Sta 1+00.00 CM_40D_RET1-1

Radius Point
Curve CM_40D_RET1-2
4192+13.33 74.00 LT

Radius Point
Curve CM_40D_RET1-1
7002+22.51 34.00 RT

Sta 7002+09.13 27.17 Rt 40th St
= Sta 1+16.61 CM_40D_RET1-1

Sta 4192+13.33 14.00 Lt 40th St Ramp D
= Sta 1+66.61 CM_40D_RET1-2

0 FEET 20

GEOMETRIC DETAILS
INTERSECTION OF
40TH ST AND 40TH ST RAMP B

FILE NO.	ENGLISH	DESIGN TEAM Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER IM-029-3(166)54--13-78	SHEET NUMBER L.9

10:38:32 AM 10/26/2017 jlastov pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\+HR_Green\Design-HR Green\Sheeting-HR Green\78029166-HRG-L10.sht

KANE TWP
T-75N R-44W
SEC. 28

Sta 3120+10.31 26.00 Rt 40th St Ramp C
= Sta 1+00.00 CM_40C_RET3-1
End Taper

CM_40C_RET3-1

Sta 3120+49.80 34.05 Rt 40th St Ramp C
= Sta 1+40.33 CM_40C_RET3-1

Radius Point
Curve CM_40C_RET3-1
7004+28.28 56.93 LT

CM_40C_RET3-2

Radius Point
Curve CM_40C_RET3-2
7004+91.98 44.00 LT

Sta 7004+91.98 19.00 Lt 40th St
= Sta 1+74.59 CM_40C_RET3-1

7.00'
31.00'

40TH ST RAMP C

3120

Sta 3120+31.03 2.00 Lt 40th Ramp C
= Sta 1+00.00 CM_40C_RET2-1

Radius Point
Curve CM_40C_RET2-1
7006+06.09 78.39 LT

CM_40C_RET2-1

Sta 7006+02.10 18.53 Lt 40th St
= Sta 1+76.99 CM_40C_RET2-1

7004 7005 7006 7007 7008 7009

CM 40C RET3-1
CM 40C RET3-2
CM 40C RET2-1

19.00'

POT Sta 7005+60.16
= PI Sta 3120+97.45

77°20'12"

12.00'

40TH ST

POT Sta 7005+47.86
= PI Sta 1191+56.16

77°20'12"

CM 40A RET1-1
CM 40A RET1-2
CM 40A RET4-1

CM_40A_RET1-1

Sta 7006+50.00 15.33 Rt 40th St
= Sta 1+00.00 CM_40A_RET1-1

CM_40A_RET1-2

Sta 7006+09.72 25.20 Rt 40th St
= Sta 1+41.68 CM_40A_RET1-1

Sta 1191+66.19 42.02 Rt 40th St
= Sta 1+00.00 CM_40A_RET4-1

CM_40A_RET4-1

Radius Point
Curve CM_40A_RET4-1
1191+90.58 47.50 RT

Sta 1191+90.58 22.50 Rt 40th St
= Sta 1+33.74 CM_40A_RET4-1

WB W BROADWAY

45.00'

Radius Point
Curve CM_40A_RET1-1
7006+57.98 135.07 RT

Radius Point
Curve CM_40A_RET1-2
7006+25.81 61.82 RT

Sta 1192+33.57 22.50 Lt 40th St Ramp A
= Sta 1+96.80 CM_40A_RET1-2

1193

0 20
FEET

GEOMETRIC DETAILS
INTERSECTION OF
40TH ST AND 40TH ST RAMP C

FILE NO.	ENGLISH	DESIGN TEAM Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER IM-029-3(166)54--13-78	SHEET NUMBER L.10

10:38:34 AM 10/26/2017 jlastov pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\+HR_Green\Design-HR Green\Sheeting-HR Green\78029166-HRG-L10.sht

SURVEY SYMBOLS

- IN Storm Sewer Intake
- MH Utility Access (Manhole)
- PIP Pipe Culvert
- MIS Miscellaneous
- INB Storm Sewer Beehive Intake
- PLG Location of General Photo
- OUT Tile Outlet
- BRG Bridge
- CON Concrete or A/C Slab
- CU Back of Curb
- GU Gutter In Front of Curb
- EP Edge of Paved Roads (ML or SR)

- UE Utility Elevation
- WV Water Valve
- FHD Fire Hydrants
- LIN Miscellaneous Line
- SI Sign
- TLNR Tree Line Right
- LUM Luminaire
- UB Utility Box
- FCL Chain Link and Security Fence

- TDC Tree Deciduous
- TPD Telephone Pedestal
- GP Guard Post (Less Than 4 Posts)
- HDG Hedge Row
- RET Retaining Walls
- UV Underground Utility Vault
- GDL Guard Rail Steel
- GPR Guard Post (4 or More Posts)
- FWD Wood Fence
- SHR Shrub
- EB Electrical Box
- TEV Evergeen Tree
- STP Stump
- TLNL Tree Line Left
- FW Wire Fence
- SL Speed Limit Sign
- LC Lot Corner
- SNP Unpaved Shoulder
- SWK Sidewalk
- ENP Edge Paved Entrance & Park Lot
- ENU Edge Unpaved Entrance & Parking
- EG Edge of Gravel Road
- ENT Centerline BL of Entrance
- DU Centerline Draw or Stream (Up)
- TW Top of Water

SURVEYED UTILITY OWNER SYMBOLS

SUB-SURFACE MAPPING QUALITY LEVEL
LEVEL (A) POTHOLE LOCATION OR ACTUAL XYZ Location
LEVEL (B) UTILITY FLAG LOCATION
LEVEL (C) PLOTTED FROM REFERENCE TO GROUND FEATURES
LEVEL (D) PLOTTED FROM UTILITY MAPS OR HEARSAY

- EB Electrical Box
- FHD Fire Hydrant
- GV Gas Valve
- IN Storm Sewer Intake
- LUM Luminaire
- MH Utility Access (Manhole)
- PPA Power Pole
- TCB Traffic Signal Box
- TPC Telephone Pole AT&T
- TPD Telephone Pedestal
- UB Utility Box
- WV Water Valve

E
F11
T4

AT&T
Lenny Vohs
1425 Oak Street
Kansas City, MO 64106
816-275-4014
lv2121@att.com

G

Black Hills Energy
Chris Dewey
1414 W. Broadway
P.O. Box 68
Council Bluffs, IA 51502
712-325-3022
chris.dewey@blackhillscorp.com

T1

CenturyLink
Ed Krieger
7404 N. 78th St., Bldg A
Omaha, NE 68112
402-572-5856
edward.krieger@centurylink.com

E3
F14

City of Council Bluffs - Power/Signals
Mark Franz
Public Works Operations
1001 10th Avenue
Council Bluffs, IA 51503
712-328-4645
mfranz@councilbluffs-ia.gov

San.

City of Council Bluffs - Sanitary Sewer
Dave Vermillion
City of Council Bluffs Public Works
209 Pearl Street
Council Bluffs, IA 51503
712-328-4635 ex 3153#
dvermillion@councilbluffs-ia.gov

St.S.
St.S.2

City of Council Bluffs - Storm Sewer
Dave Vermillion
City of Council Bluffs Public Works
209 Pearl Street
Council Bluffs, IA 51503
712-328-4635 ex 3153#
dvermillion@councilbluffs-ia.gov

W

Council Bluffs Water Works
Brian Cady
2000 N. 25th St.
P.O. Box 309
Council Bluffs, IA 51502
712-328-1006 x.1039
bcady@cbwaterworks.com

F08
T2
TV

Cox Communications
Dave Kloch
401 North 117th, Suite 101
Omaha, NE 68154
402-934-0550
dave.kloch@cox.com

F02

Iowa Communications Network
Larry Klawitter
Grimes State Office Bldg
400 E. 14th St.
Des Moines, IA 50319
515-725-4741
larry.klawitter@iowa.gov

E2

Iowa DOT
Tony Arrick
Maintenance Supervisor
3540 South Expressway
Council Bluffs, IA 51501
712-366-0332

E
E1

MidAmerican Energy Company
Tim Theobald
3003 S. 11th St.
Council Bluffs, IA 51501
712-366-5668
trtheobald@midamerican.com

F03

Sprint
Dan J. Hilliard
849 Earl Street
St. Paul, MN 55106
651-772-6714
dan.j.hilliard@sprint.com

T5

TeleCom
Unknown

F15

Unite Private Network (UPN)
Shanon Morris
402-575-1239
shanon.morris@upnfiber.com

F12

Windstream
Joe Green
319-790-7510

E4
T2(C)

Unknown

Indicates Utility As Abandoned

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

KANE TWP
T-75 R-44W
SEC.33

9TH AVE. RAMP C

9TH AVE. RAMP B

I-29

505 POT Sta 505+00.00

506 507 508 509 510

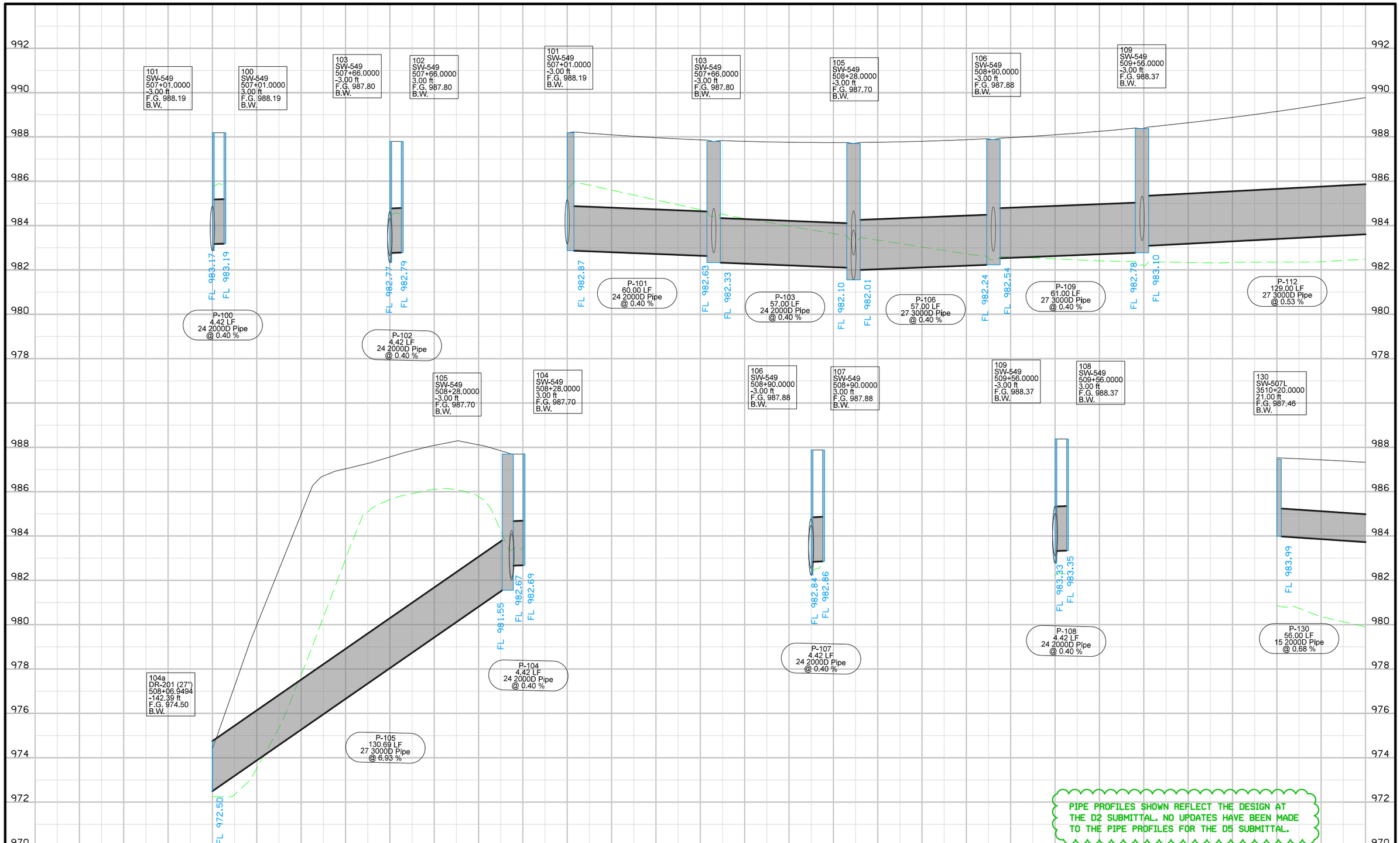
100 101 102 103 104 105 106 107 108 109

104a 130 130a

0 20
FEET

FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER M.2

10:23:58 AM 10/26/2017 mplummer pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\78029166-M.sht



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER M.3

10:24:00 AM 10/26/2017 mplummer pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\78029166-M.sht

KANE TWP
T-75 R-44W
SEC.33

9TH AVE. RAMP C

131 132 133 134 135 137

113 117 118

511 512 513 514 515 516

I-29

112 111

110 114 115

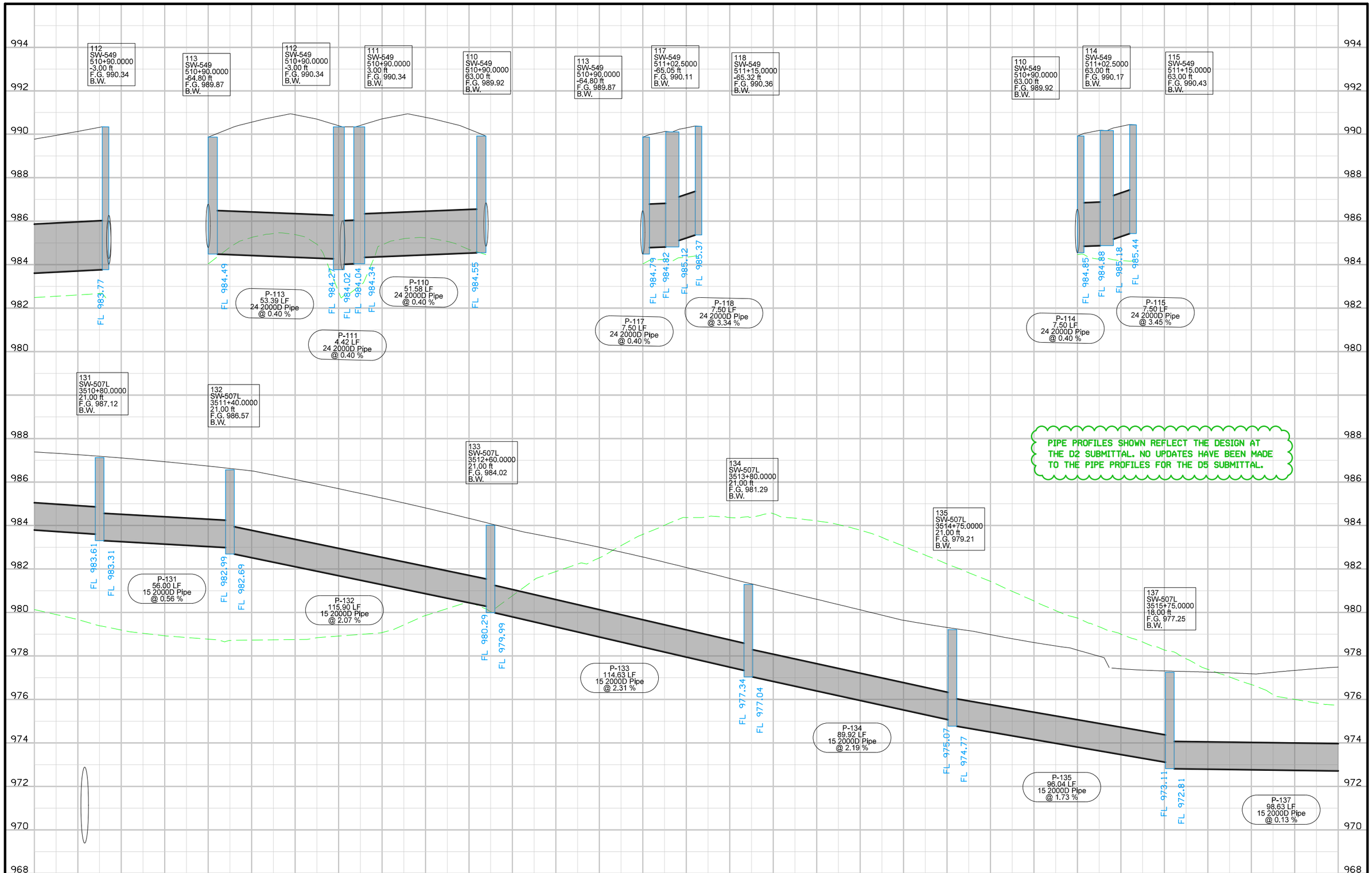
9TH AVE. RAMP B

SIGN

0 20
FEET

FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER M.4

10:24:05 AM 10/26/2017 mplummer pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\78029166-M.sht



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER M.5

KANE TWP
T-75 R-44W
SEC.33

9TH AVE. RAMP C

SB FRONTAGE RD.

I-29

9TH AVE.

9TH AVE. RAMP B

NB FRONTAGE RD.

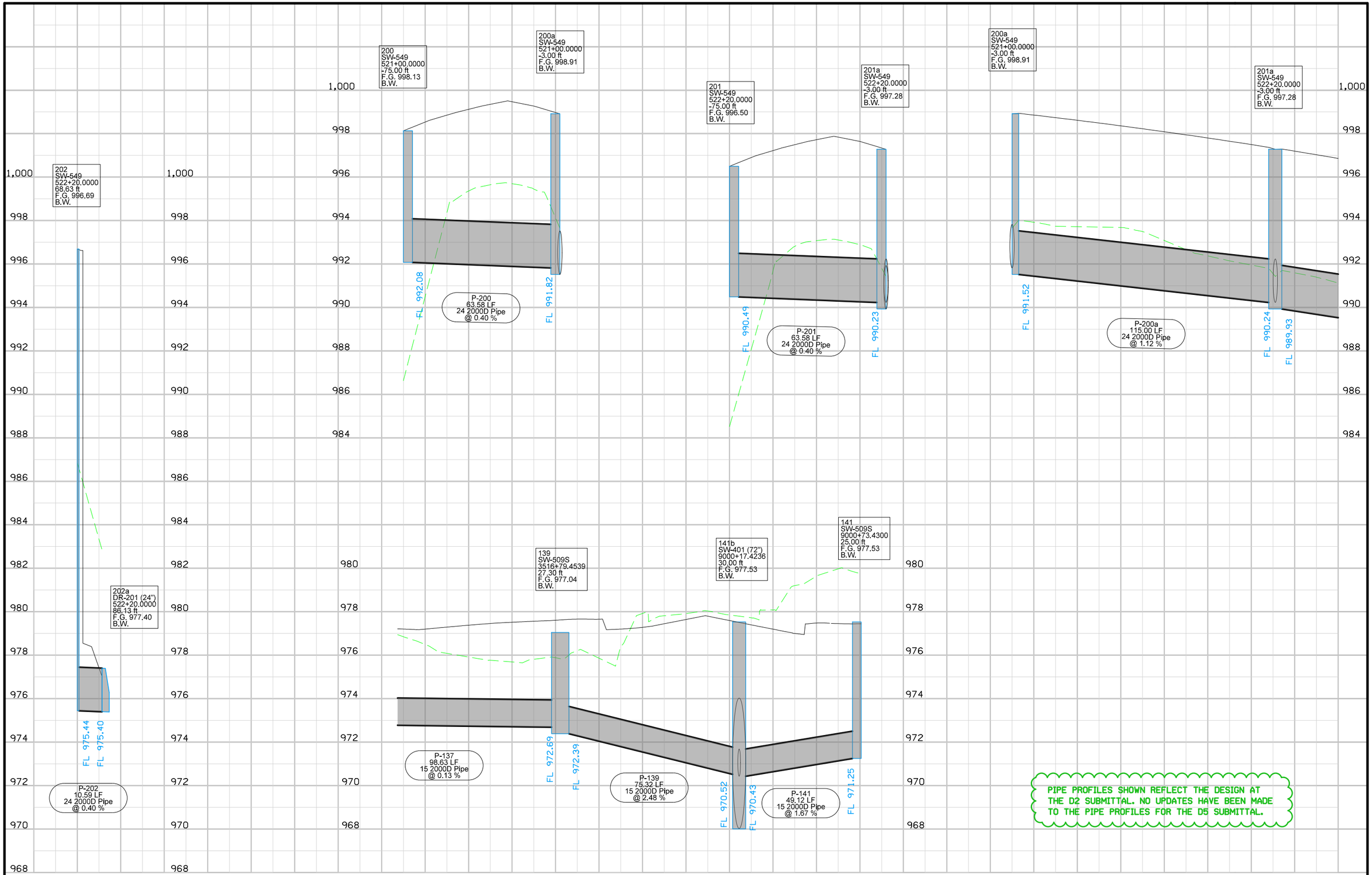
158 158a 150a 151 152 139 141b 141 200 201 200a 201a 202 202a

517 518 519 520 521 522

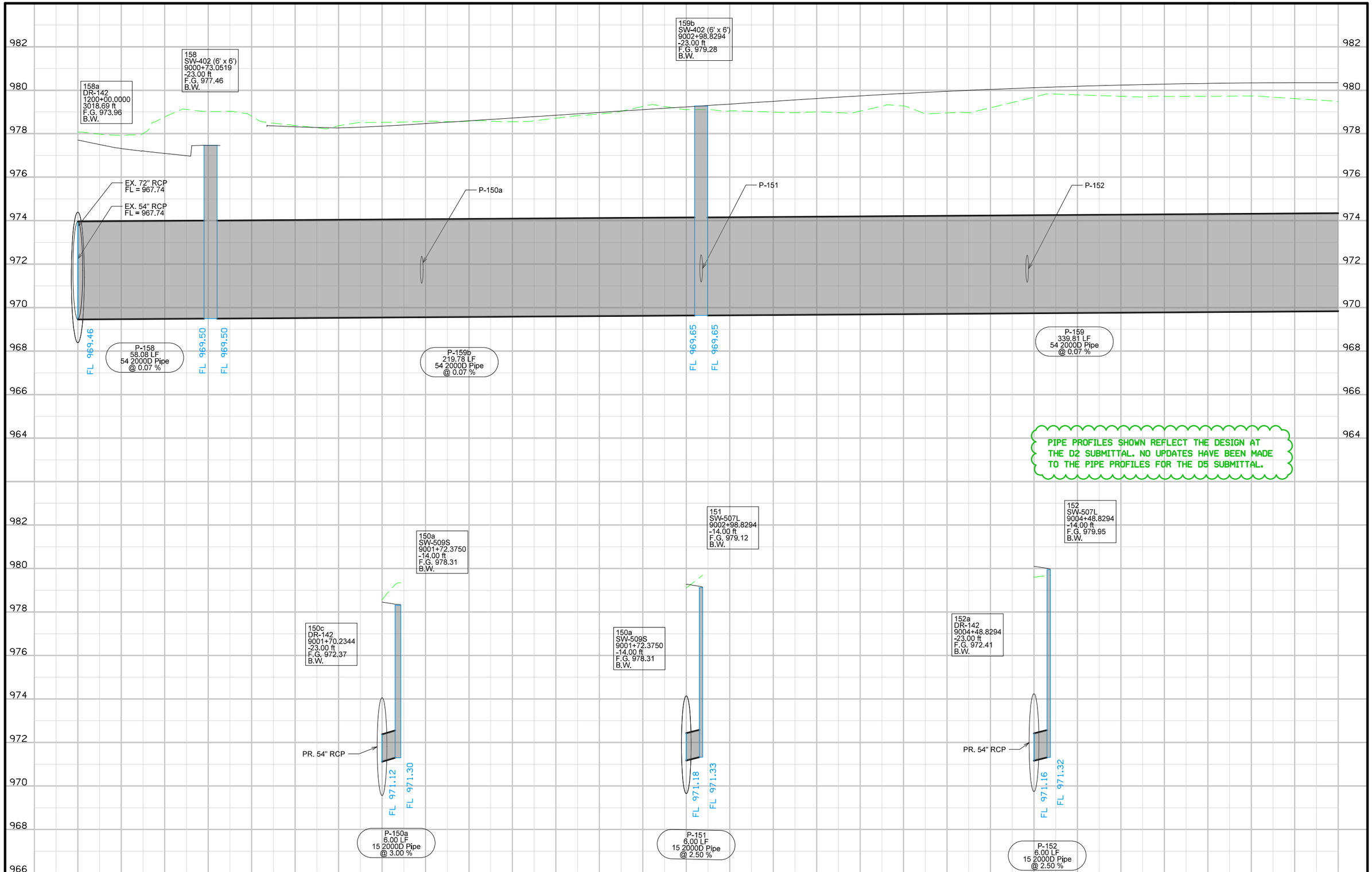
0 FEET 20

FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER M.6

10:24:09 AM 10/26/2017 mplummer pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\78029166-M.sht



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER M.7



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER M.8

SB FRONTAGE RD.

I-29

NB FRONTAGE RD.

9TH AVE. RAMP D

KANE TWP
T-75 R-44W
SEC.33

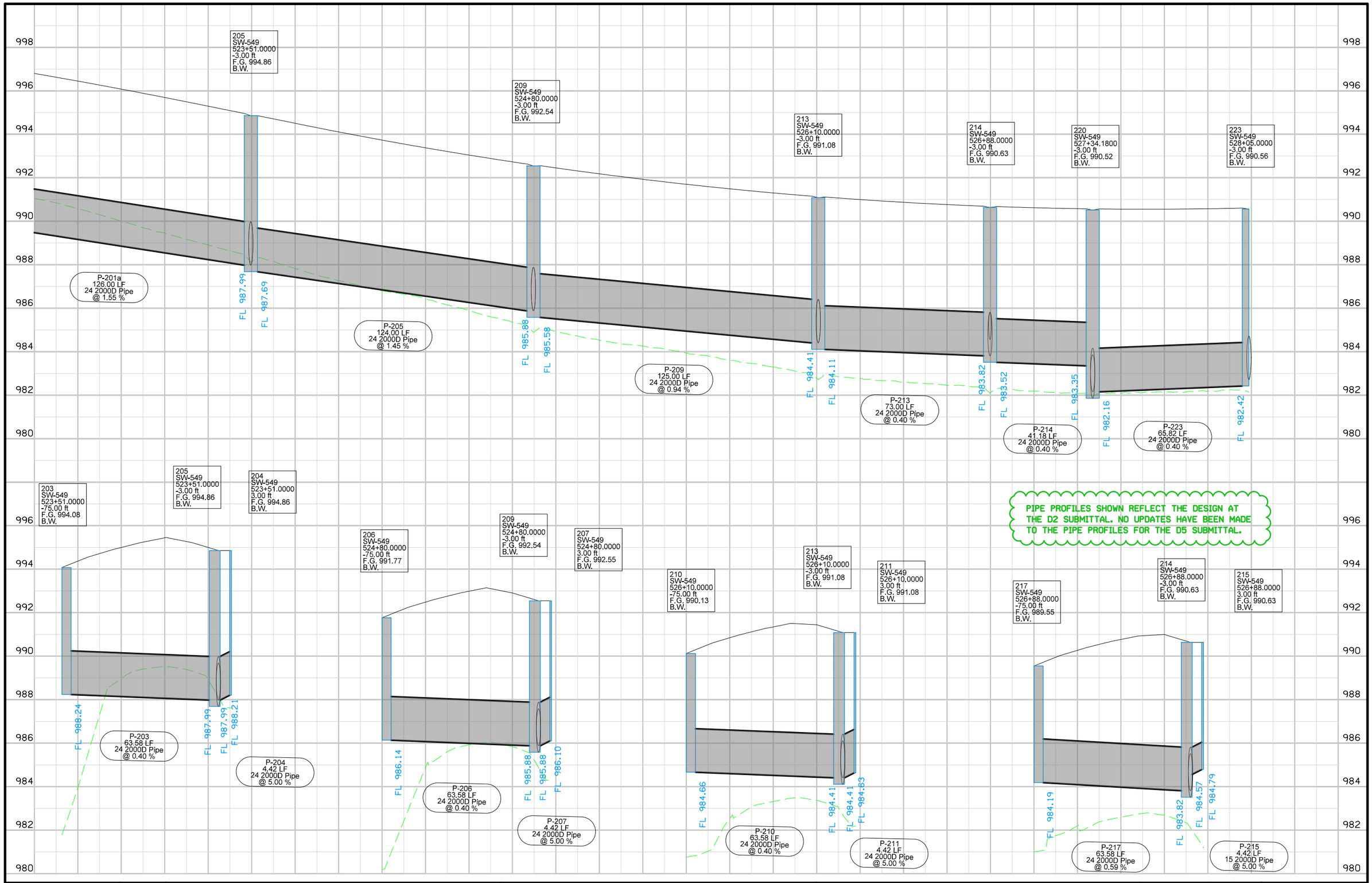
523 524 525 526 527 528

PC Sta 528+48.22

0 20
FEET

FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER	M.9

10:24:15 AM 10/26/2017 mplummer pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\7802916 6-M.sht



PIPE PROFILES SHOWN REFLECT THE DESIGN AT THE D2 SUBMITTAL. NO UPDATES HAVE BEEN MADE TO THE PIPE PROFILES FOR THE D5 SUBMITTAL.

FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER M.10

10:24:17 AM 10/26/2017 mplummer pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\78029166-M.sht

PIPE PROFILES SHOWN REFLECT THE DESIGN AT THE D2 SUBMITTAL. NO UPDATES HAVE BEEN MADE TO THE PIPE PROFILES FOR THE D5 SUBMITTAL.

221
SW-549
527+64.0000
-75.00 ft
F.G. 989.30
B.W.

220
SW-549
527+34.1800
-3.00 ft
F.G. 990.52
B.W.

219
SW-549
527+34.1800
3.00 ft
F.G. 990.52
B.W.

218
SW-549
527+12.0000
85.01 ft
F.G. 989.82
B.W.

218a
DR-201 (27")
527+12.0000
110.00 ft
F.G. 978.90
B.W.

FL 982.44
FL 982.16
FL 981.86
FL 981.84
FL 981.59
FL 981.29
FL 977.44
FL 976.90

P-221
70.23 LF
24 2000D Pipe
@ 0.40 %

P-220
4.42 LF
24 2000D Pipe
@ 0.40 %

P-219
76.82 LF
27 2000D Pipe
@ 0.40 %

P-218
18.07 LF
27 2000D Pipe
@ 3.00 %

222
SW-549
527+58.8055
86.57 ft
F.G. 989.79
B.W.

222a
SW-549
528+05.0000
89.53 ft
F.G. 989.95
B.W.

223
SW-549
528+05.0000
-3.00 ft
F.G. 990.56
B.W.

224
SW-549
528+05.0000
3.00 ft
F.G. 990.56
B.W.

222b
DR-201 (24")
527+58.8055
115.70 ft
F.G. 979.78
B.W.

222c
DR-201 (24")
528+05.0000
117.30 ft
F.G. 981.70
B.W.

FL 978.26
FL 977.70
FL 980.22
FL 979.70
FL 982.72
FL 982.74

P-222
22.21 LF
24 2000D Pipe
@ 2.50 %

P-222a
20.86 LF
24 2000D Pipe
@ 2.50 %

P-224
4.42 LF
24 2000D Pipe
@ 0.40 %

159
SW-402 (6' x 6')
9006+44.6346
-23.00 ft
F.G. 980.42
B.W.

PR. 24" RCP

159a
SW-402 (6' x 6')
524+15.9702
81.46 ft
F.G. 978.18
B.W.

304c
SW-402 (6' x 6')
8006+76.4991
13.76 ft
F.G. 979.24
B.W.

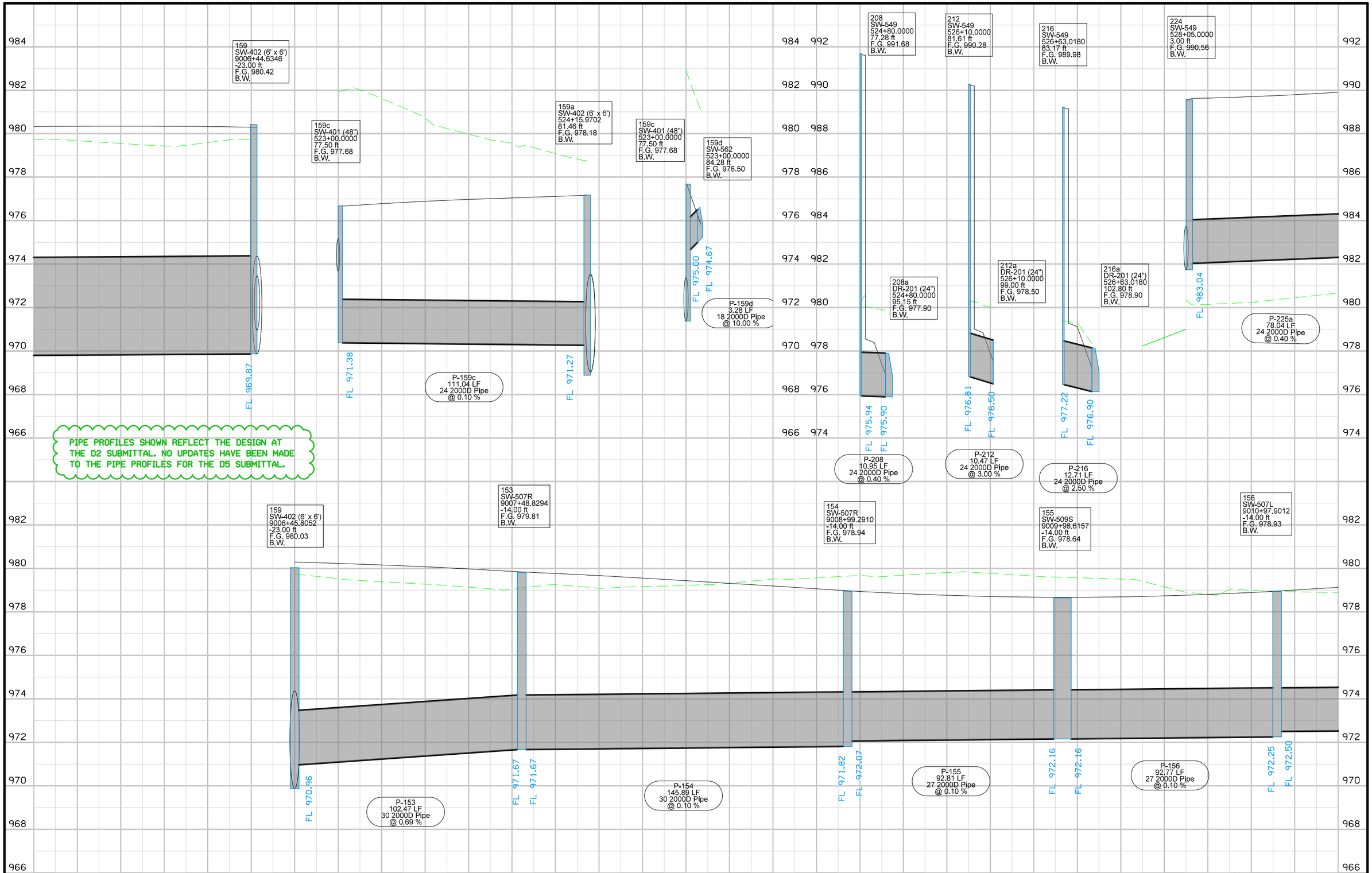
EX. 54" RCP
FL = 970.10

FL 969.87
FL 970.03
FL 970.03
FL 970.10

P-159a
238.54 LF
54 2000D Pipe
@ 0.07 %

P-304b
97.91 LF
54 2000D Pipe
@ 0.07 %

FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER M.11



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER M.12

KANE TWP
T-75 R-44W
SEC.33

SB FRONTAGE RD.

9TH AVE. RAMP A

I-480 RAMP C

I-29

I-480 RAMP H

0 20 FEET

FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER M.13

10:24:23 AM 10/26/2017 mplummer pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\78029166-M.sht

PIPE PROFILES SHOWN REFLECT THE DESIGN AT THE D2 SUBMITTAL. NO UPDATES HAVE BEEN MADE TO THE PIPE PROFILES FOR THE D5 SUBMITTAL.

225a
SW-549
528+88.0000
3.00 ft
F.G. 990.94
B.W.

227
SW-549
529+85.0000
3.00 ft
F.G. 991.85
B.W.

230
SW-549
531+09.0000
3.00 ft
F.G. 993.54
B.W.

234
SW-549
533+22.0000
3.00 ft
F.G. 996.53
B.W.

235
SW-549
8533+30.0000
-32.00 ft
F.G. 999.75
B.W.

FL 983.35
FL 983.65
FL 984.02
FL 984.32
FL 985.75
FL 986.05
FL 988.58
FL 988.88

P-227
92.09 LF
24 2000D Pipe
@ 0.40 %

P-230
119.11 LF
24 2000D Pipe
@ 1.20 %

P-234
208.19 LF
24 2000D Pipe
@ 1.21 %

225
SW-549
528+88.0000
-75.00 ft
F.G. 989.29
B.W.

225a
SW-549
528+88.0000
3.00 ft
F.G. 990.94
B.W.

226
SW-549
529+85.0000
-75.00 ft
F.G. 989.91
B.W.

228
SW-549
529+85.0000
-3.00 ft
F.G. 991.85
B.W.

227
SW-549
529+85.0000
3.00 ft
F.G. 991.85
B.W.

231
SW-549
531+09.0000
-3.00 ft
F.G. 993.54
B.W.

230
SW-549
531+09.0000
3.00 ft
F.G. 993.54
B.W.

232a
SW-401 (48")
8531+09.7278
-35.00 ft
F.G. 994.06
B.W.

229
SW-549
531+09.0000
-75.00 ft
F.G. 991.60
B.W.

234
SW-549
533+22.0000
3.00 ft
F.G. 996.53
B.W.

FL 984.19
FL 983.90
FL 984.89
FL 984.64
FL 984.34
FL 984.32
FL 986.62
FL 986.37
FL 986.07
FL 986.05
FL 988.99
FL 990.01
FL 989.63
FL 989.95

P-225
73.00 LF
24 2000D Pipe
@ 0.40 %

P-226
63.58 LF
24 2000D Pipe
@ 0.40 %

P-228
4.42 LF
24 2000D Pipe
@ 0.40 %

P-229
63.58 LF
24 2000D Pipe
@ 0.40 %

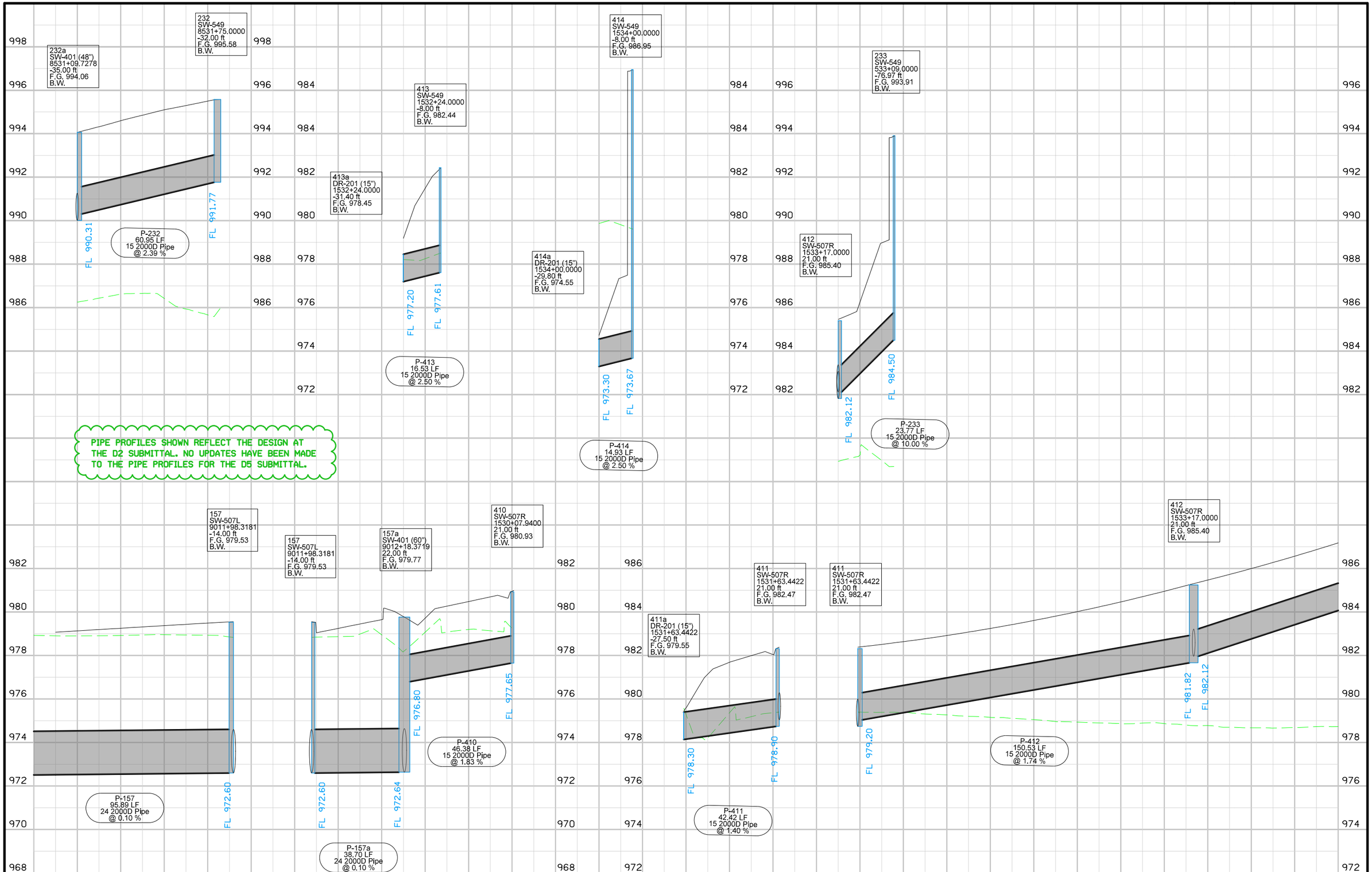
P-231
4.42 LF
24 2000D Pipe
@ 0.40 %

P-232a
55.00 LF
15 2000D Pipe
@ 1.85 %

P-235
80.73 LF
15 2000D Pipe
@ 0.40 %

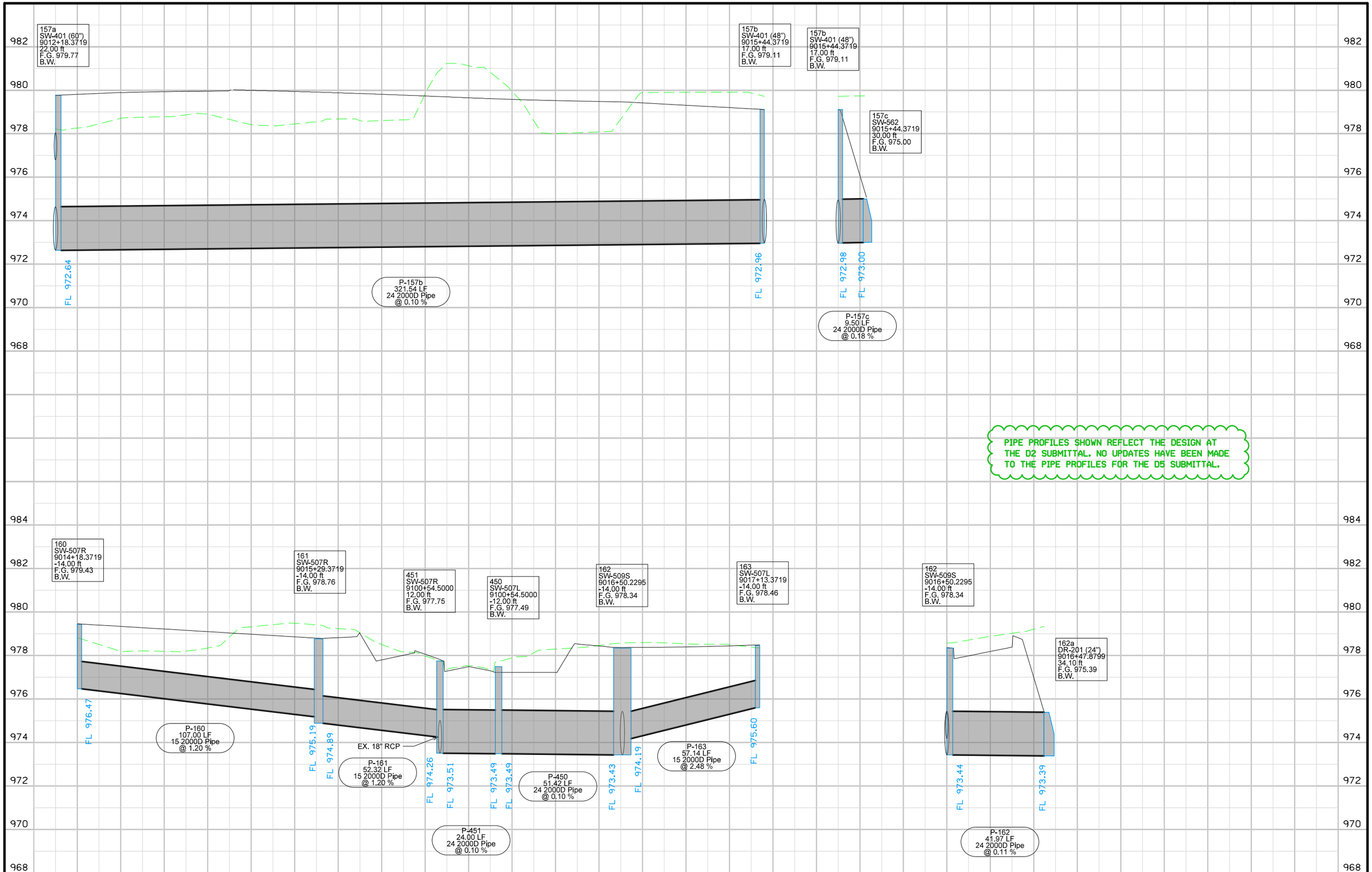
FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER M.14

10:24:26 AM 10/26/2017 mplummer pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\78029166-M.sht



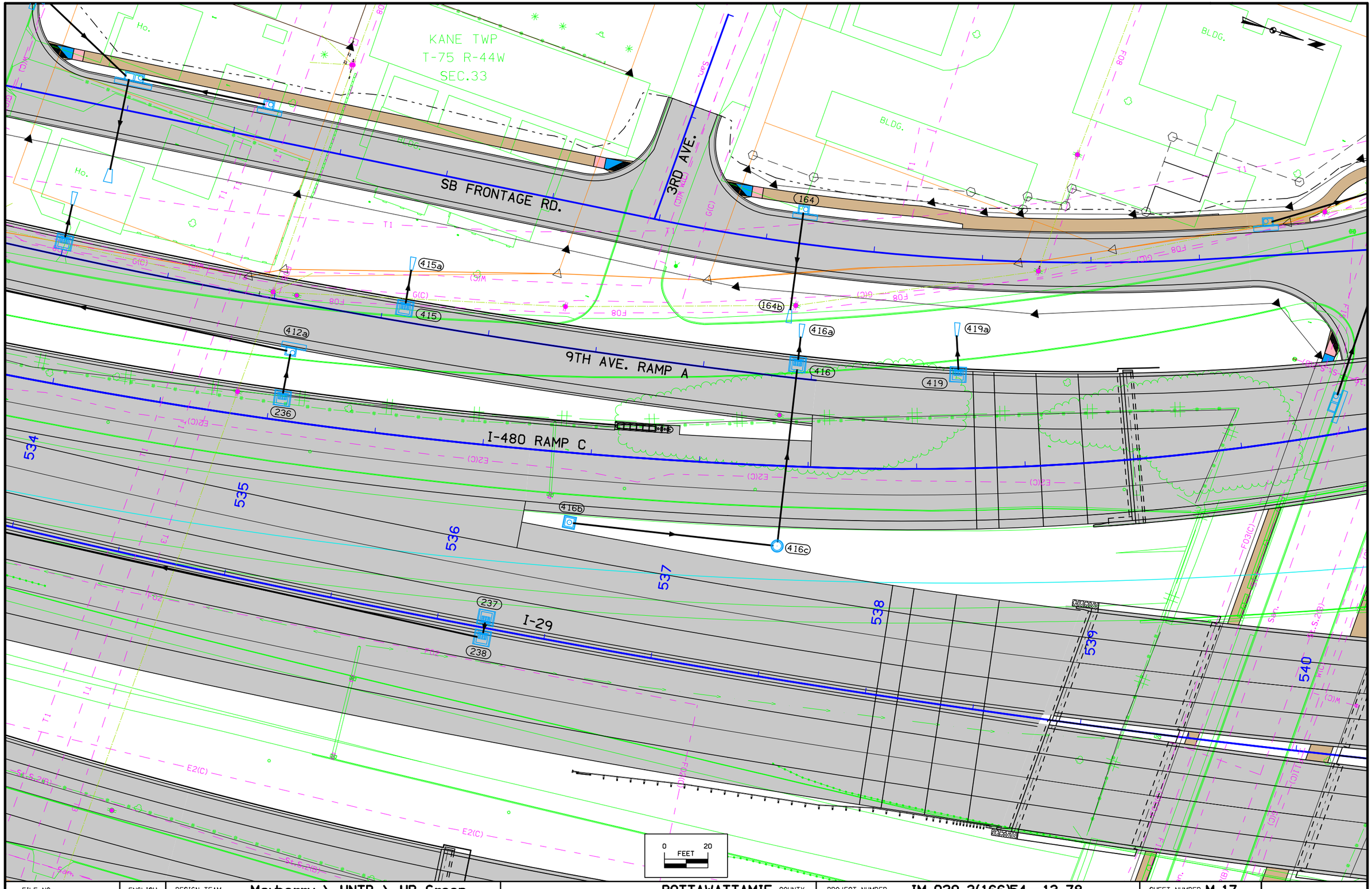
FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER M.15

10:24:28 AM 10/26/2017 mplummer pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\78029166-M.sht



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER M.16

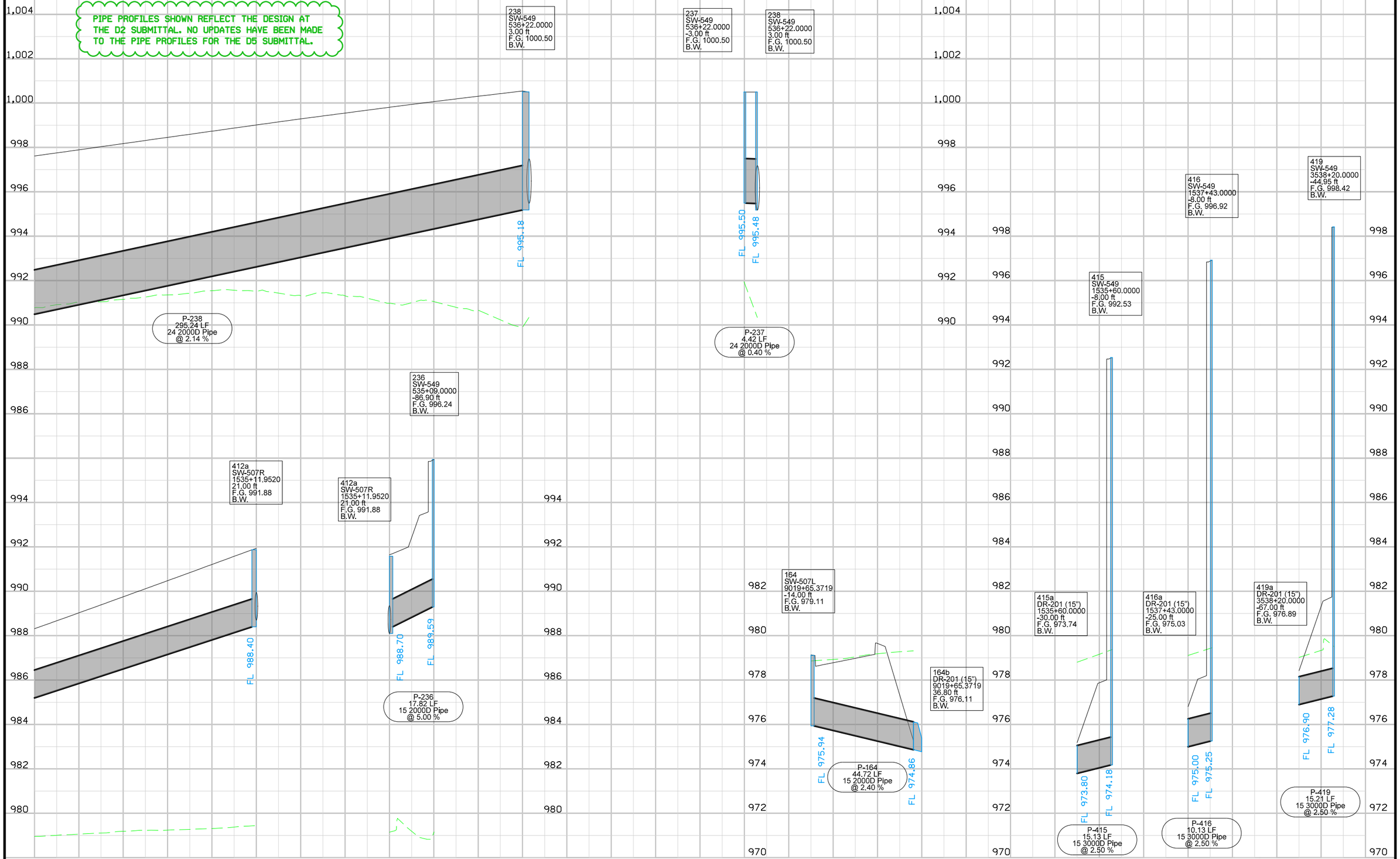
10:24:30 AM 10/26/2017 mplummer pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\78029166-M.sht



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER M.17

10:24:33 AM 10/26/2017 mplummer pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\78029166-M.sht

PIPE PROFILES SHOWN REFLECT THE DESIGN AT THE D2 SUBMITTAL. NO UPDATES HAVE BEEN MADE TO THE PIPE PROFILES FOR THE D5 SUBMITTAL.



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER M.18	

SB FRONTAGE RD.

2ND AVE.

I-480 RAMP C

KANE TWP
T-75 R-44W
SEC.33

250a

252a

253a

541

542

543

544

545

546

I-29

I-480 RAMP H

250

252

251

254

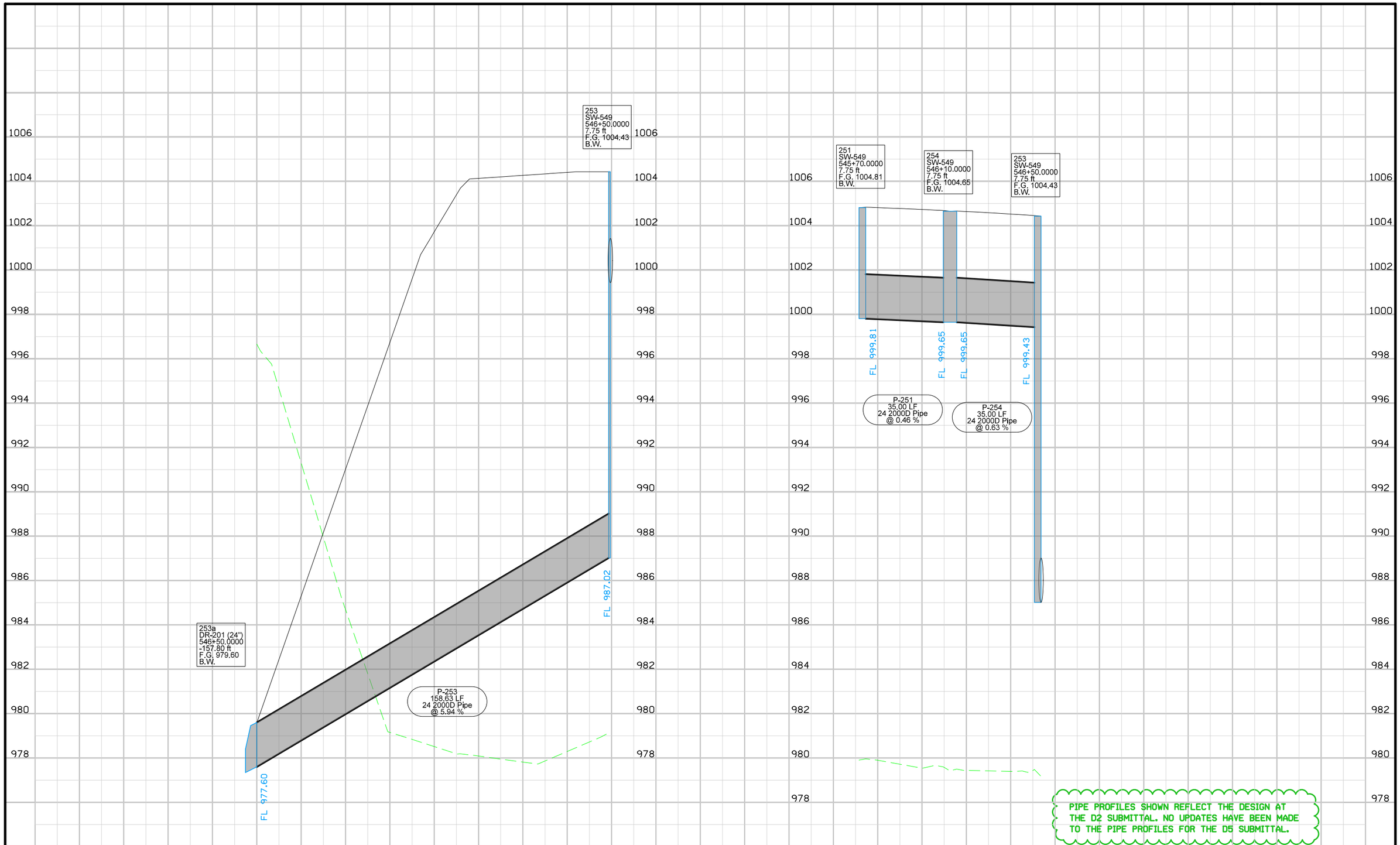
253

0 FEET 20

KANE TWP
T-75 R-44W
SEC.28

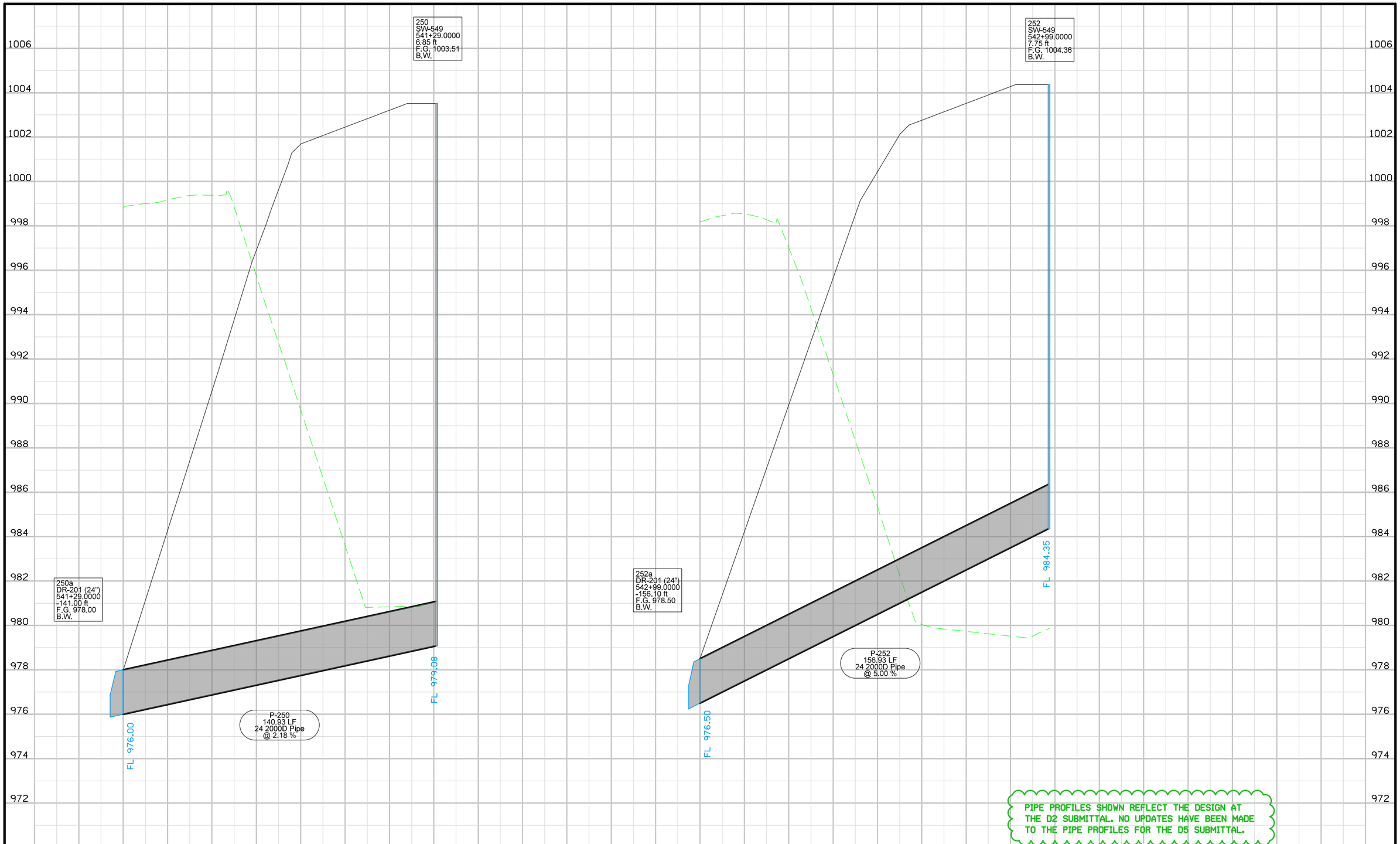
FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER M.19

10:24:39 AM 10/26/2017 mplummer pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\78029166-M.sht

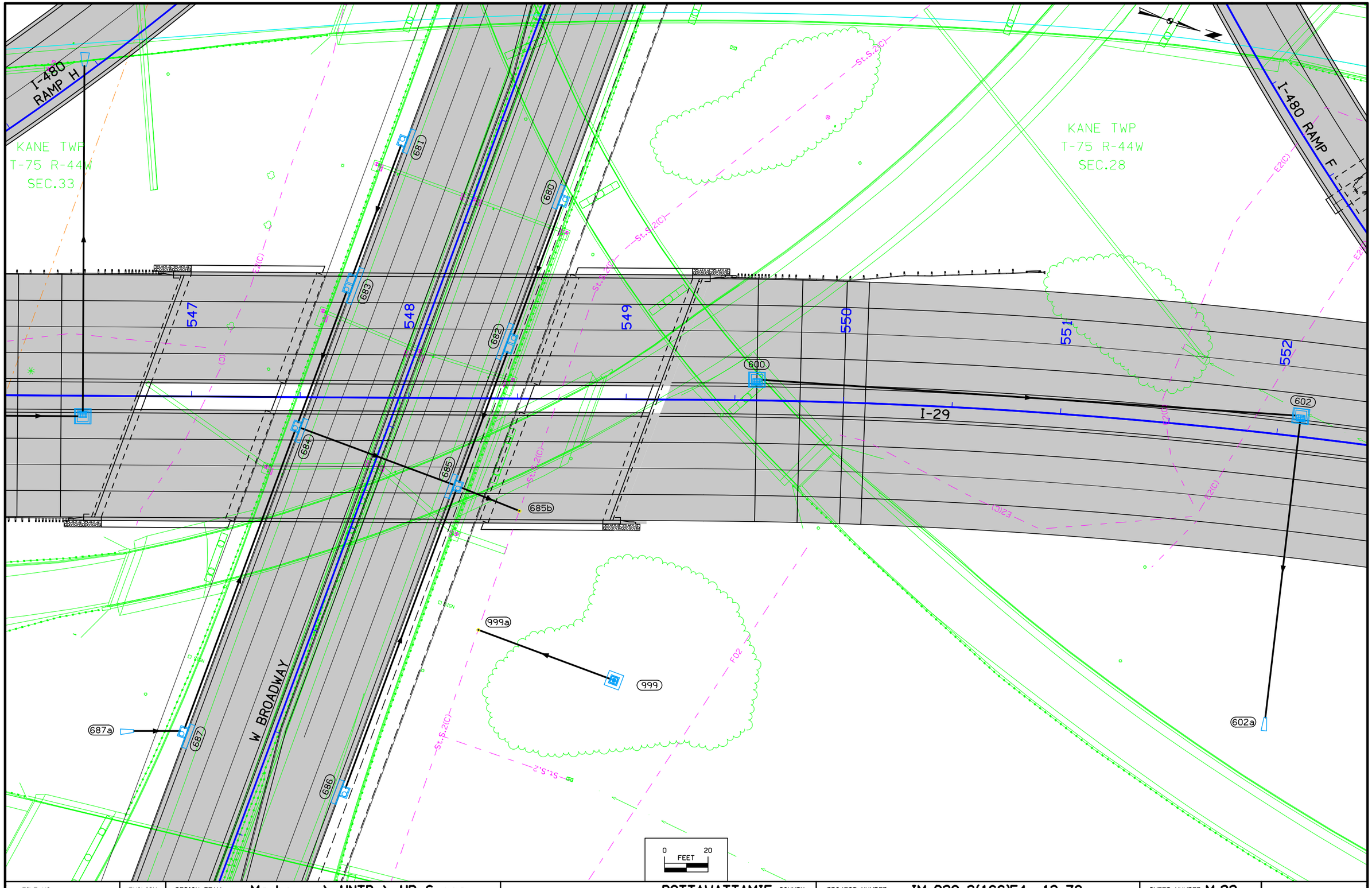


PIPE PROFILES SHOWN REFLECT THE DESIGN AT THE D2 SUBMITTAL. NO UPDATES HAVE BEEN MADE TO THE PIPE PROFILES FOR THE D5 SUBMITTAL.

FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER M.20

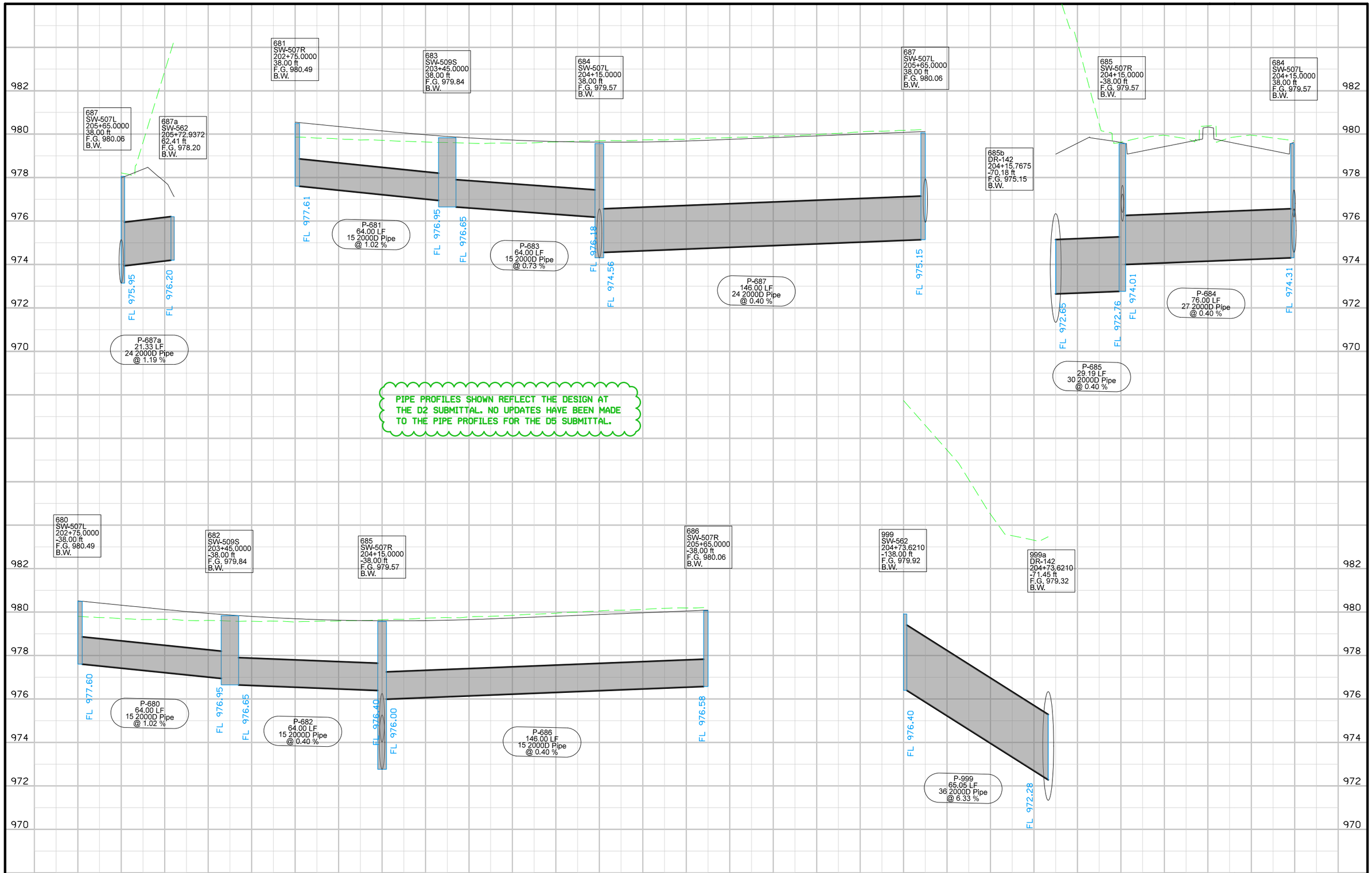


FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER M.21



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER M.22

10:24:45 AM 10/26/2017 mplummer pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\78029166-M.sht



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER M.23

PIPE PROFILES SHOWN REFLECT THE DESIGN AT THE D2 SUBMITTAL. NO UPDATES HAVE BEEN MADE TO THE PIPE PROFILES FOR THE D5 SUBMITTAL.

1006
1004
1002
1000
998
996
994
992
990
988
986
984
982
980
978
976

600
SW-549
549+60.0000
-7.75 ft
F.G. 1001.52
B.W.

FL 998.27

P-600
245.85 LF
15 3000D Pipe
@ 1.02 %

602
SW-549
552+10.0000
-7.75 ft
F.G. 999.02
B.W.

FL 995.77

602
SW-549
552+10.0000
-7.75 ft
F.G. 999.02
B.W.

602a
DR-201 (15")
552+10.0000
136.20 ft
F.G. 978.55
B.W.

FL 982.55

P-602
137.08 LF
15 3000D Pipe
@ 3.83 %

FL 977.30

FILE NO.	ENGLISH	DESIGN TEAM Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER IM-029-3(166)54--13-78	SHEET NUMBER M.24

10:24:46 AM 10/26/2017 mplummer pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\78029166-M.sht

I-480 RAMP A

SIGN

KANE TWP
T-75 R-44W
SEC.28

552 553 554 555 556 557 558

I-29

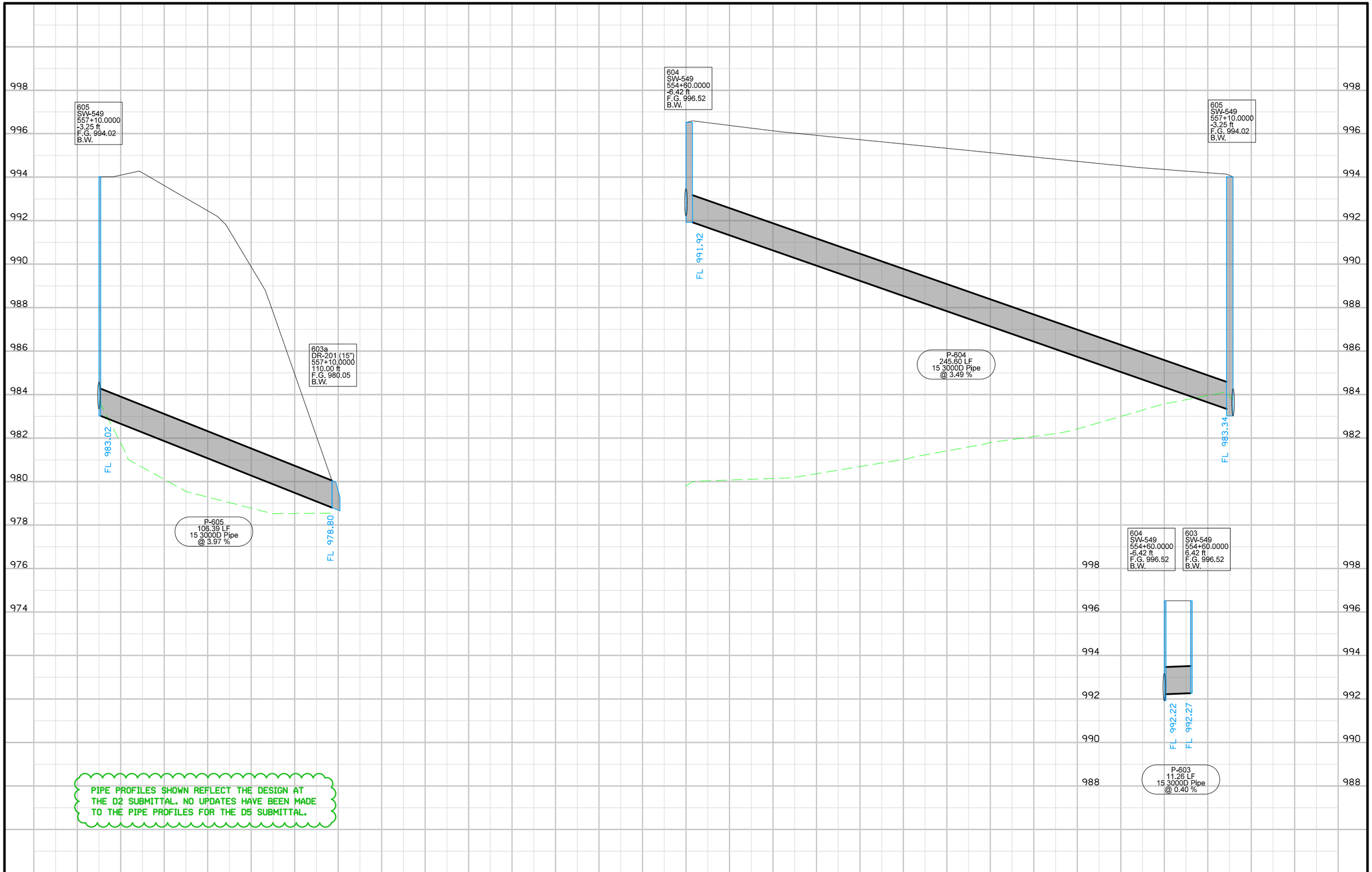
604 603 605 603a

I-480 RAMP F

0 20
FEET

FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER M.25

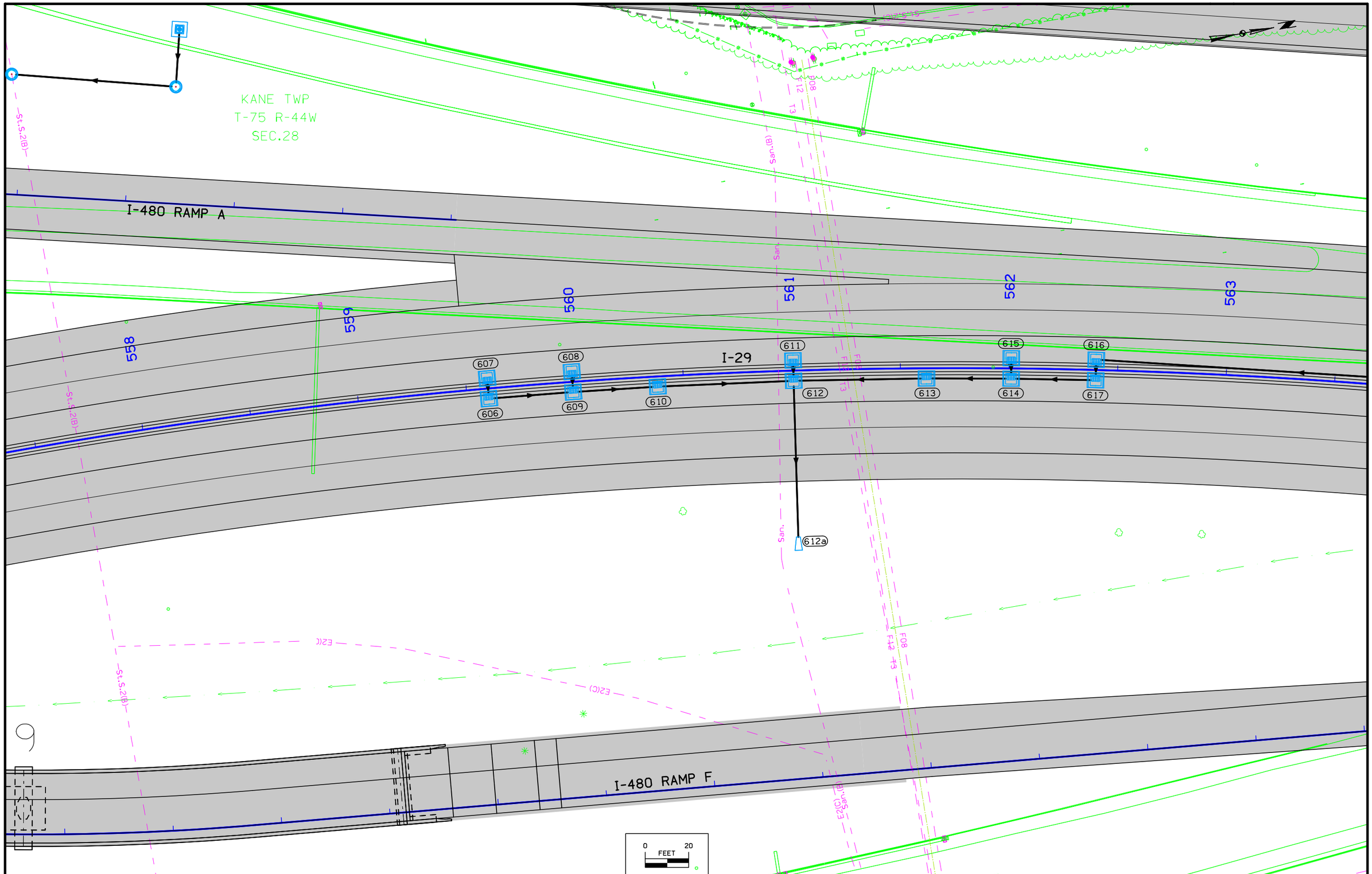
10:24:50 AM 10/26/2017 mplummer pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\78029166-M.sht



PIPE PROFILES SHOWN REFLECT THE DESIGN AT THE D2 SUBMITTAL. NO UPDATES HAVE BEEN MADE TO THE PIPE PROFILES FOR THE D5 SUBMITTAL.

FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER M.26

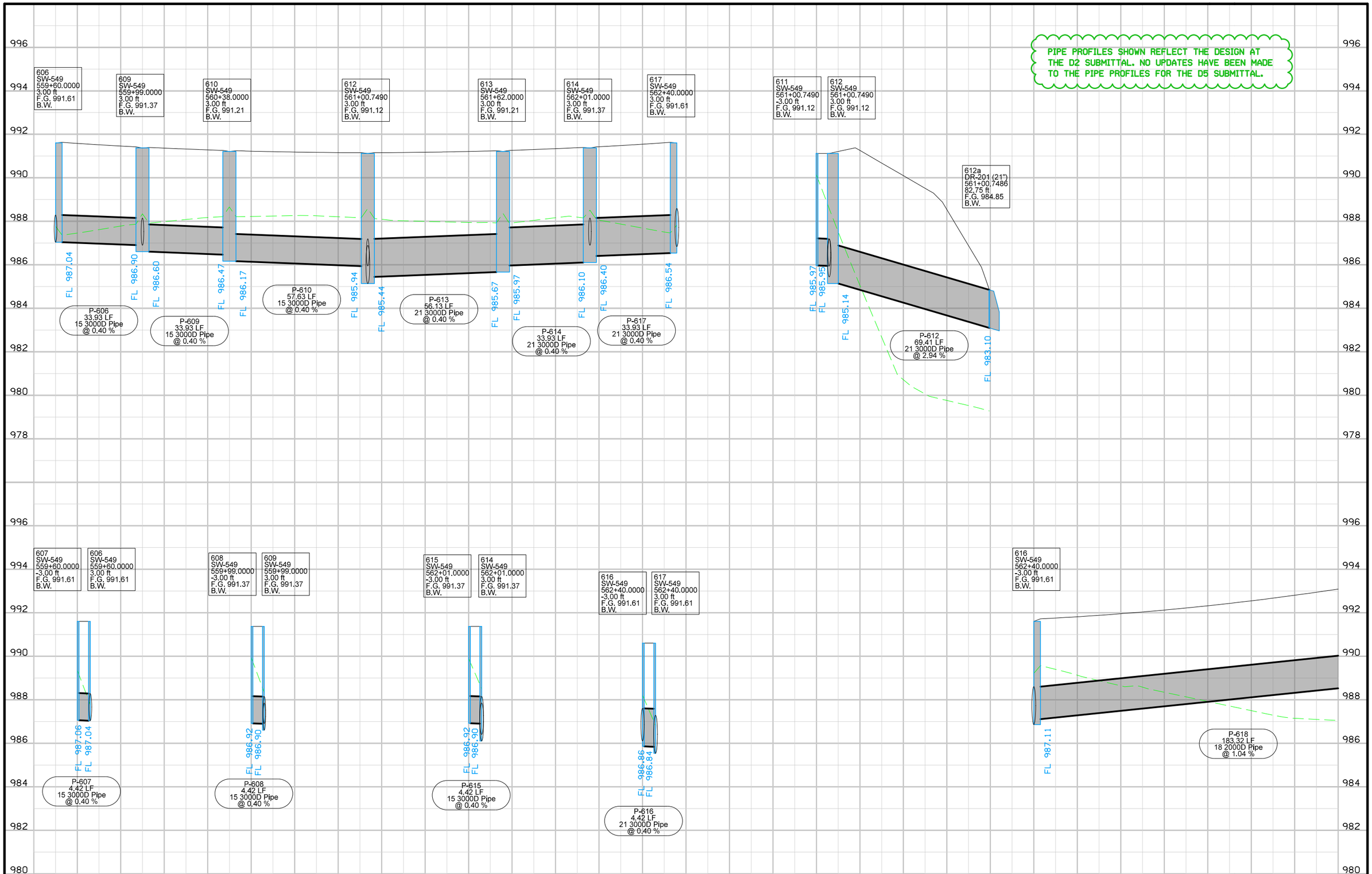
10:24:51 AM 10/26/2017 mplummer pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\78029166-M.sht



FILE NO.	ENGLISH	DESIGN TEAM Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER IM-029-3(166)54--13-78	SHEET NUMBER M.27

10:24:54 AM 10/26/2017 mplummer pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\78029166-M.sht

PIPE PROFILES SHOWN REFLECT THE DESIGN AT THE D2 SUBMITTAL. NO UPDATES HAVE BEEN MADE TO THE PIPE PROFILES FOR THE D5 SUBMITTAL.



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER M.28

10:24:56 AM 10/26/2017 mplummer pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\78029166-M.sht

KANE TWP
T-75 R-44W
SEC.28

564
565
566
567
568
569

618
619
620
621
621a

I-29

I-480 RAMP F

NB FRONTAGE RD.

0 FEET 20

FILE NO.	ENGLISH	DESIGN TEAM Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER IM-029-3(166)54--13-78	SHEET NUMBER M.29

10:24:58 AM 10/26/2017 mplummer pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\78029166-M.sht

PIPE PROFILES SHOWN REFLECT THE DESIGN AT THE D2 SUBMITTAL. NO UPDATES HAVE BEEN MADE TO THE PIPE PROFILES FOR THE D5 SUBMITTAL.

618
SW-549
564+28.0000
-3.00 ft
F.G. 993.81
B.W.

619
SW-549
566+28.0000
-3.00 ft
F.G. 997.68
B.W.

620
SW-549
568+28.0000
-3.00 ft
F.G. 1001.35
B.W.

621
SW-549
569+24.0000
-3.00 ft
F.G. 1002.59
B.W.

P-619
195.33 LF
15 3000D Pipe
@ 1.06 %

P-620
195.33 LF
15 3000D Pipe
@ 0.40 %

P-621
91.18 LF
15 3000D Pipe
@ 0.40 %

FL 989.01
FL 989.56
FL 991.63
FL 991.93
FL 992.71
FL 993.01
FL 993.38

621
SW-549
569+24.0000
-3.00 ft
F.G. 1002.59
B.W.

621a
SW-549
569+31.2473
78.68 ft
F.G. 998.24
B.W.

P-621a
76.99 LF
15 2000D Pipe
@ 0.40 %

FL 993.68
FL 993.99

FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER M.30

10:25:00 AM 10/26/2017 mplummer pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\78029166-M.sht

KANE TWP
T-75 R-44W
SEC.28

575
576
577
578
579
580

F02

I-29

AVE. G RAMP D

650
651
652
653
654
655
656
656a
657
658
737
738

0 20
FEET

FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER M.31

10:25:02 AM 10/26/2017 mplummer pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\78029166-M.sht

PIPE PROFILES SHOWN REFLECT THE DESIGN AT THE D2 SUBMITTAL. NO UPDATES HAVE BEEN MADE TO THE PIPE PROFILES FOR THE D5 SUBMITTAL.

652a
SW-549
573+85.0000
3.00 ft
F.G. 1003.43
B.W.

652
SW-549
575+25.0000
3.00 ft
F.G. 1002.00
B.W.

655
SW-549
577+75.0000
3.00 ft
F.G. 997.62
B.W.

1004
1002
1000
998
996
994
992
990
988
986
984
982
980
978
976
974

FL 976.30

P-652
134.72 LF
24 2000D Pipe
@ 0.40 %

FL 976.83
FL 976.83

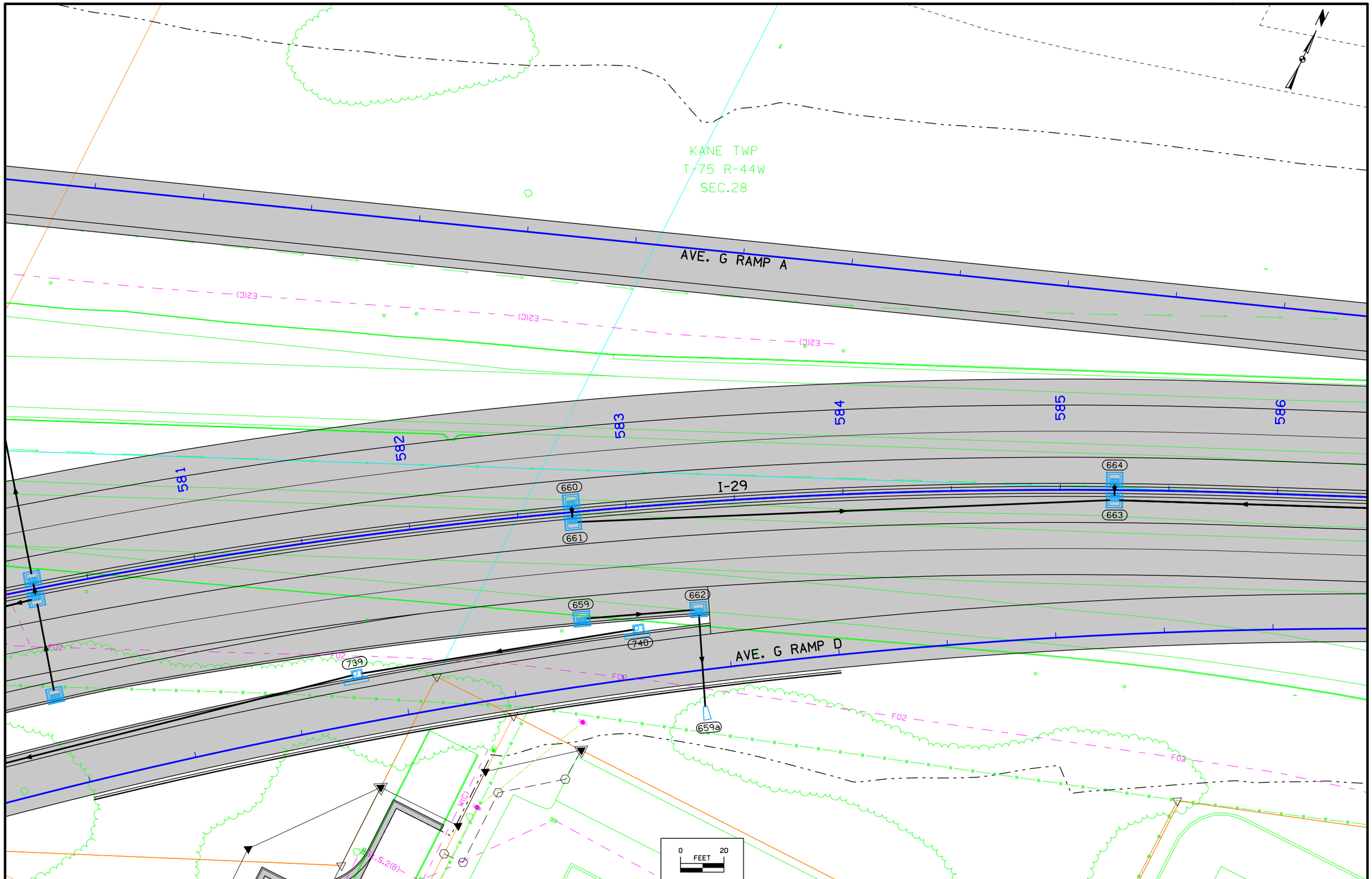
P-655
244.43 LF
24 2000D Pipe
@ 0.40 %

FL 977.81
FL 978.06

P-657
244.43 LF
24 3000D Pipe
@ 0.40 %

FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER M.32

10:25:03 AM 10/26/2017 mplummer pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\78029166-M.sht



FILE NO.	ENGLISH	DESIGN TEAM Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER IM-029-3(166)54--13-78	SHEET NUMBER M.33

10:25:05 AM 10/26/2017 mplummer pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\78029166-M.sht

PIPE PROFILES SHOWN REFLECT THE DESIGN AT THE D2 SUBMITTAL. NO UPDATES HAVE BEEN MADE TO THE PIPE PROFILES FOR THE D5 SUBMITTAL.

657
SW-549
580+25.0000
3.00 ft
F.G. 992.63
B.W.

661
SW-549
582+75.0000
3.00 ft
F.G. 989.04
B.W.

994
992
990
988
986
984
982
980
978

FL 979.04
FL 979.29
FL 980.27
FL 980.52

P-657
244.43 LF
24 3000D Pipe
@ 0.40 %

P-661
244.43 LF
24 3000D Pipe
@ 0.40 %

P-663
244.43 LF
21 3000D Pipe
@ 0.40 %

986
984
982
980
978
976
974

FL 977.46
FL 977.20

P-662
42.21 LF
24 3000D Pipe
@ 0.63 %

FL 982.71
FL 982.24

P-659
48.91 LF
24 3000D Pipe
@ 0.97 %

986
984
982
980
978
976
974

660
SW-549
582+75.0000
-3.00 ft
F.G. 989.04
B.W.

661
SW-549
582+75.0000
3.00 ft
F.G. 989.04
B.W.

664
SW-549
585+25.0000
-3.00 ft
F.G. 987.49
B.W.

663
SW-549
585+25.0000
3.00 ft
F.G. 987.49
B.W.

990
988
986
984
982
980

FL 985.29
FL 985.28

P-660
4.42 LF
15 2000D Pipe
@ 0.10 %

FL 983.77
FL 983.75

P-664
4.42 LF
15 2000D Pipe
@ 0.40 %

FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER M.34

AVE. G RAMP A

587 588 589 590 591 592

666 665 668 667

I-29

AVE. G RAMP D

E2(C) E2(C) E2(C) E2(C) E2(C) E2(C)

F02 F02

KANE TWP
T-75 R-44W
SEC.28

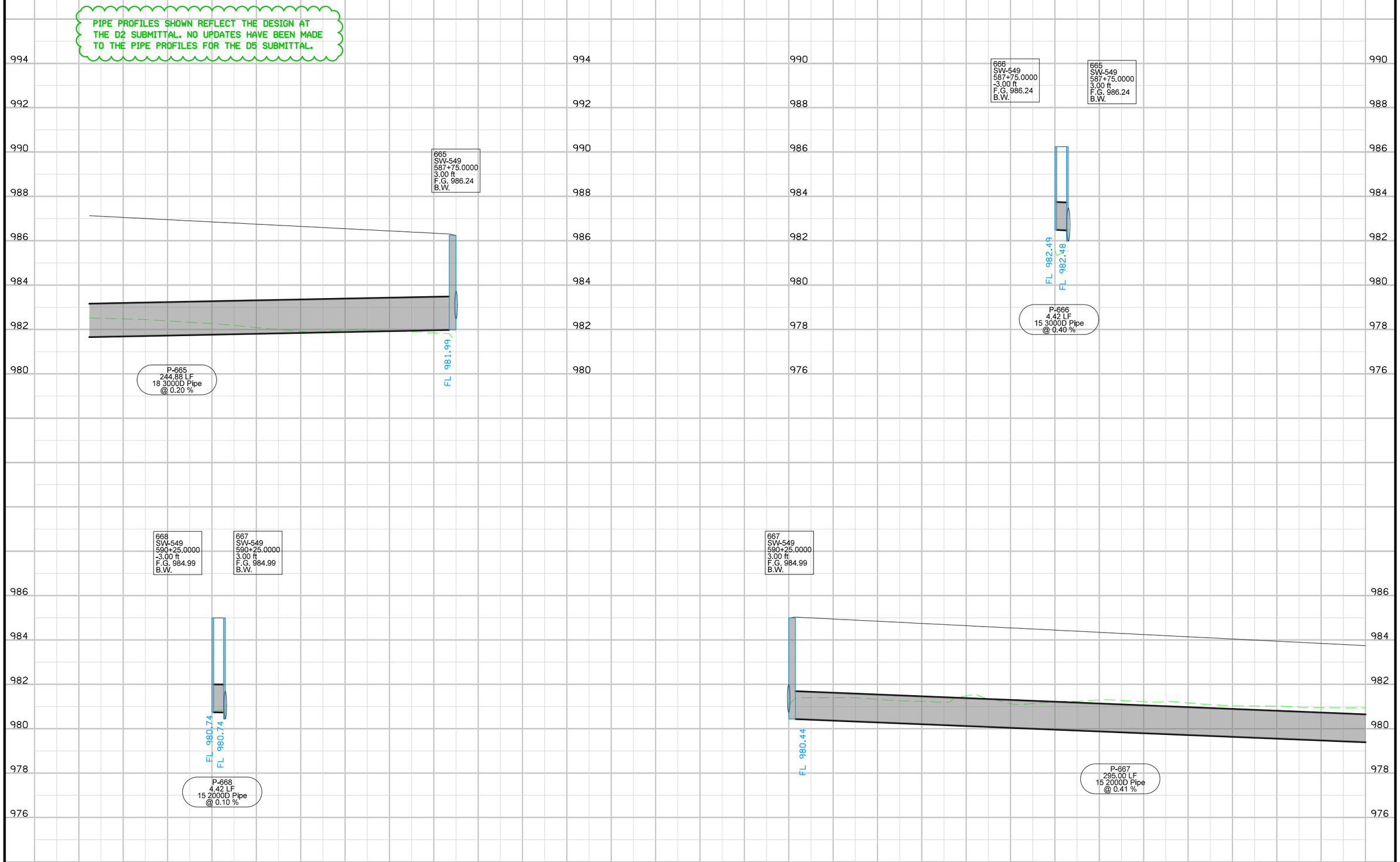
35TH ST.

0 20
FEET

FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER M.35

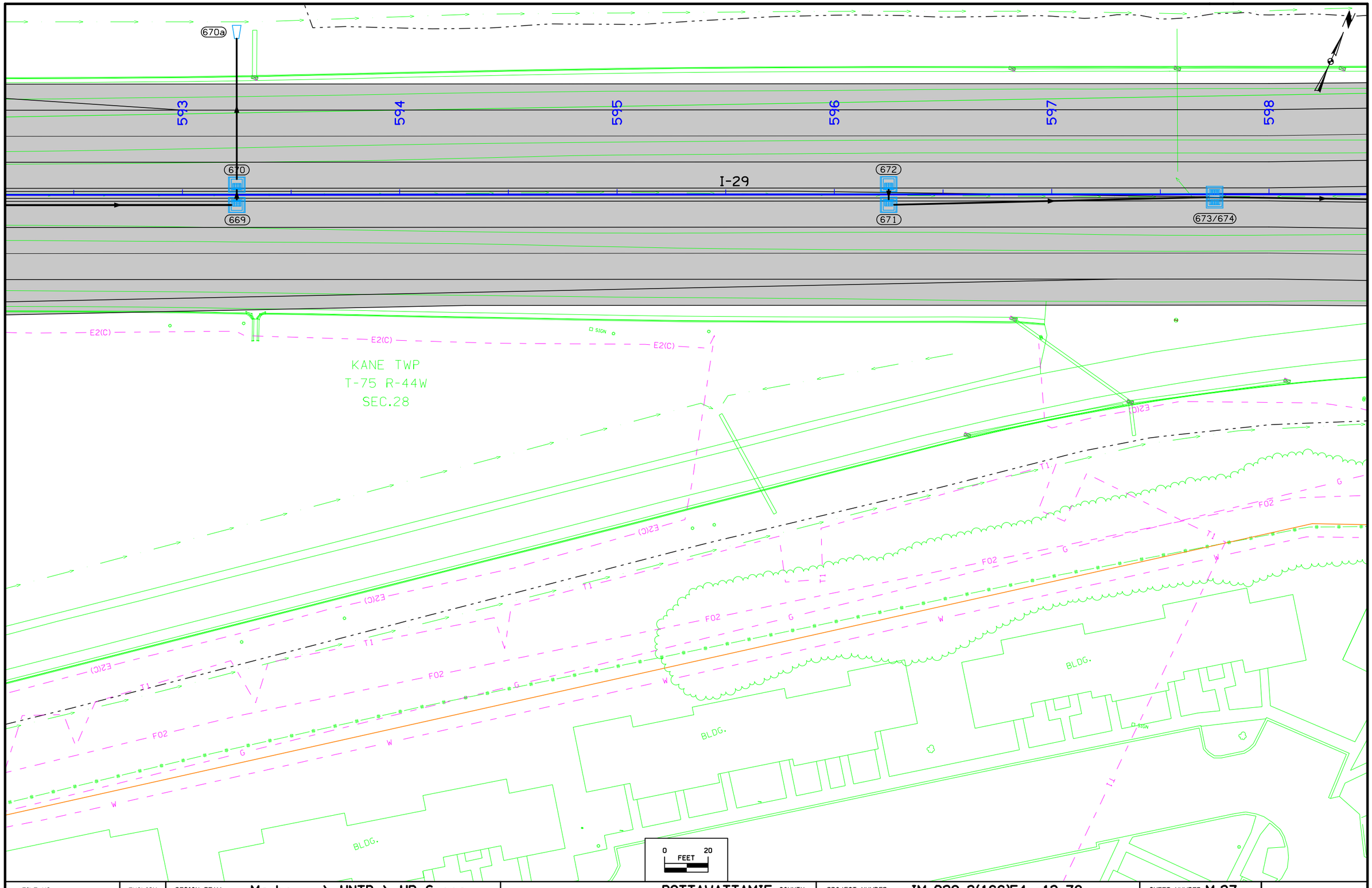
10:25:08 AM 10/26/2017 mplummer pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\78029166-M.sht

PIPE PROFILES SHOWN REFLECT THE DESIGN AT THE D2 SUBMITTAL. NO UPDATES HAVE BEEN MADE TO THE PIPE PROFILES FOR THE D5 SUBMITTAL.



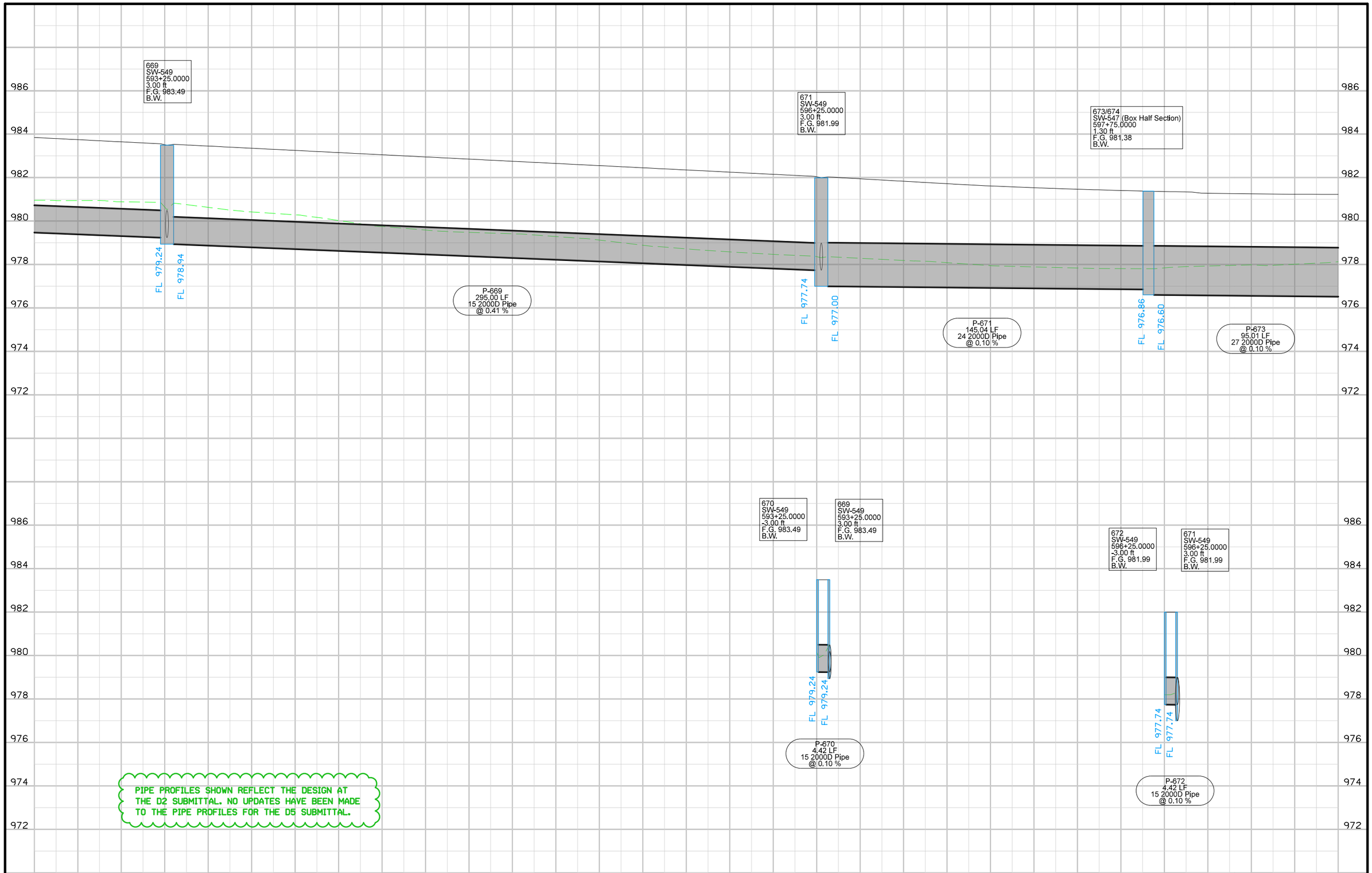
FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER M.36

10:25:12 AM 10/26/2017 mplummer pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\78029166-M.sht



FILE NO.	ENGLISH	DESIGN TEAM Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER IM-029-3(166)54--13-78	SHEET NUMBER M.37

10:25:14 AM 10/26/2017 mplummer pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\78029166-M.sht



PIPE PROFILES SHOWN REFLECT THE DESIGN AT THE D2 SUBMITTAL. NO UPDATES HAVE BEEN MADE TO THE PIPE PROFILES FOR THE D5 SUBMITTAL.

FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER M.38

KANE TWP
T-75 R-44W
SEC.28

KANE TWP
T-75 R-44W
SEC.27

677a

599

600

601

602

603

604

I-29

675/676

677/678

678a

F02

SIGN

E2(C)

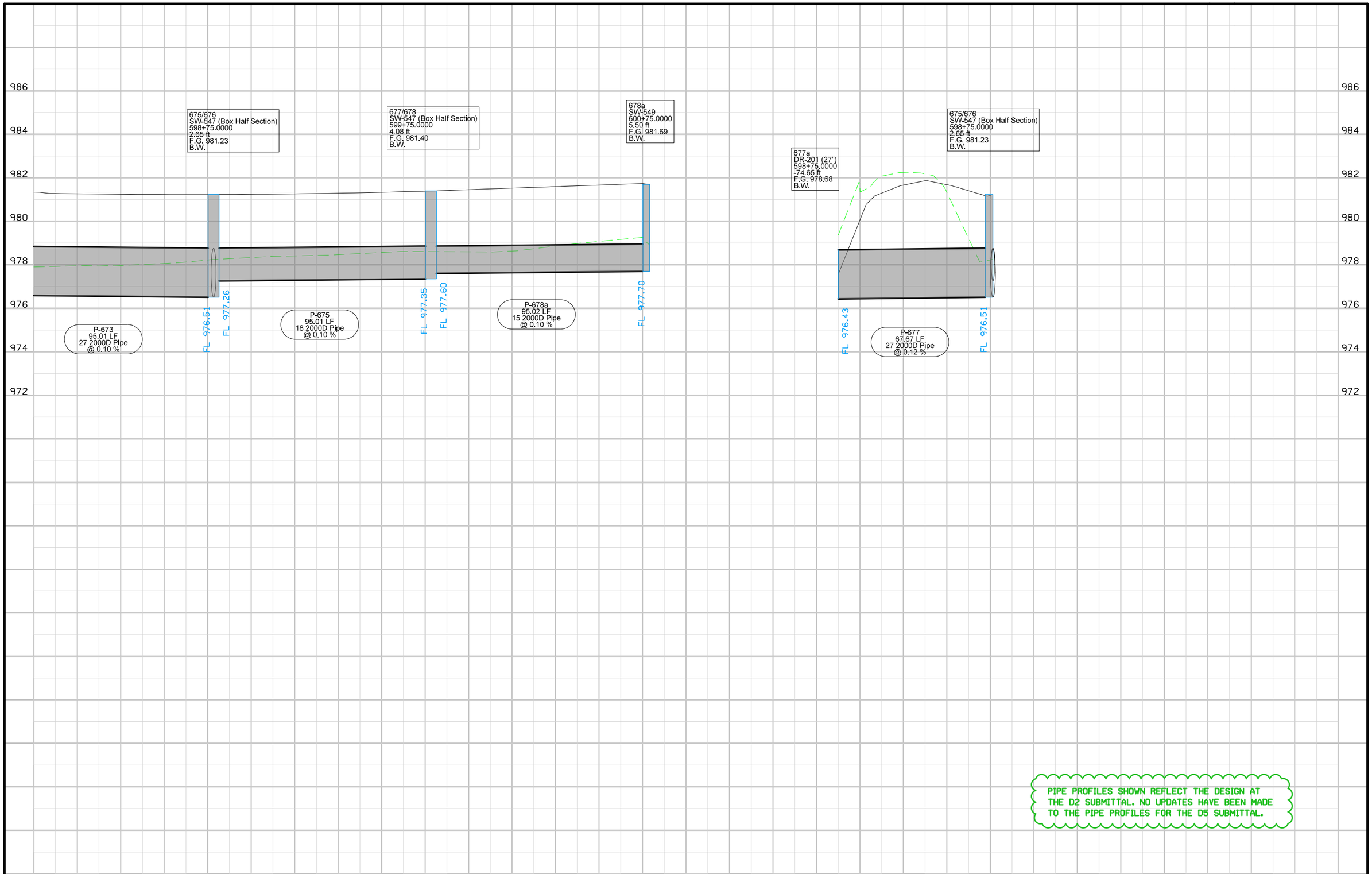
G

W

0 FEET 20

FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER M.39

10:25:17 AM 10/26/2017 mplummer pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\78029166-M.sht



PIPE PROFILES SHOWN REFLECT THE DESIGN AT THE D2 SUBMITTAL. NO UPDATES HAVE BEEN MADE TO THE PIPE PROFILES FOR THE D5 SUBMITTAL.

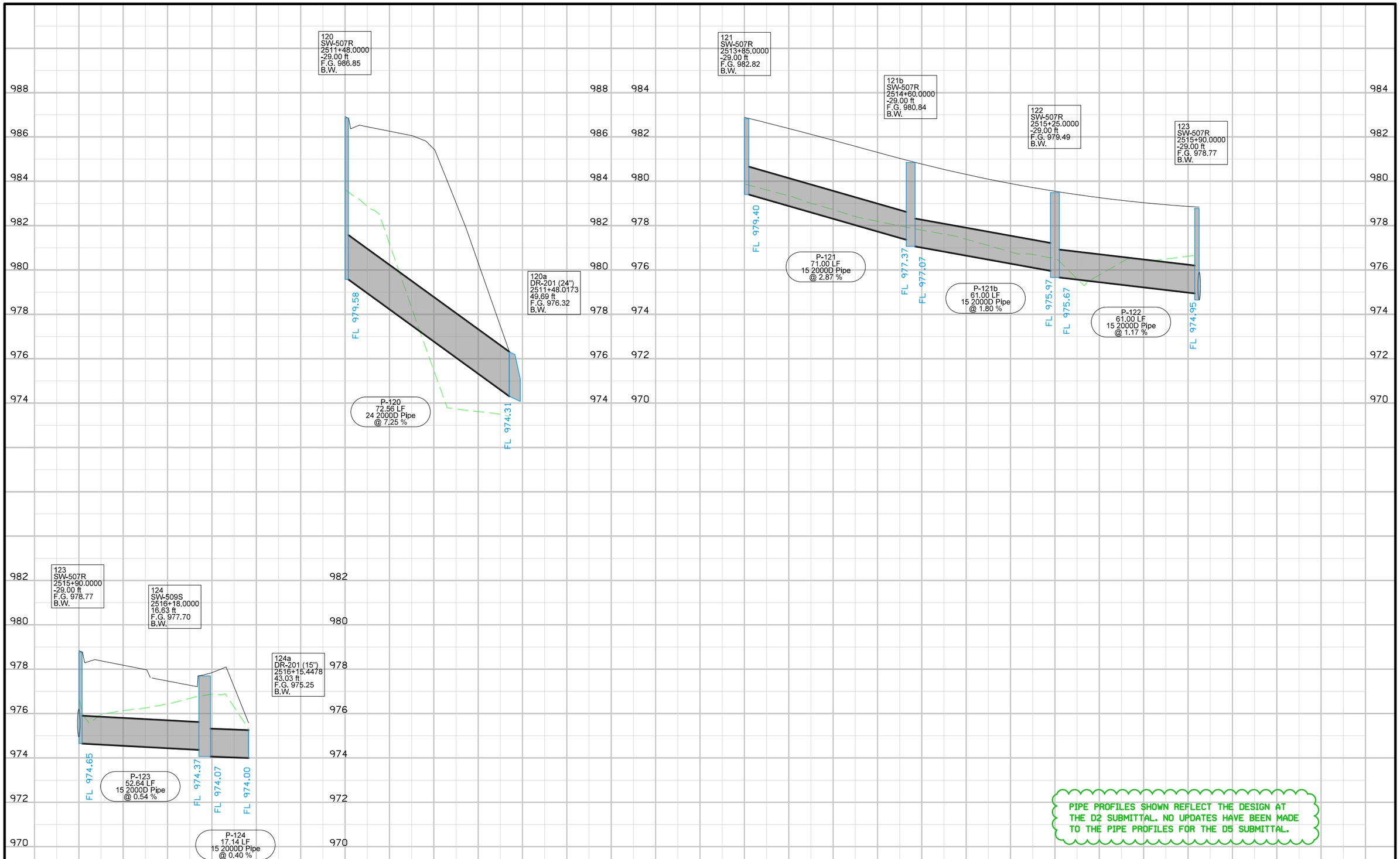
FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER M.40

10:25:19 AM 10/26/2017 mplummer pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\78029166-M.sht

511
512
513
514
515
516
I-29
9TH AVE. RAMP B
120
120a
121
121b
122
123
124
124a
KANE TWP
T-75 R-44W
SEC.33
St.S.2(B)
St.S.2(C)
St.S.2
E2(B)
E2(C)
E2(E)
SIGN
0 FEET 20

FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER M.41

10:25:21 AM 10/26/2017 mplummer pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\78029166-M.sht



PIPE PROFILES SHOWN REFLECT THE DESIGN AT THE D2 SUBMITTAL. NO UPDATES HAVE BEEN MADE TO THE PIPE PROFILES FOR THE D5 SUBMITTAL.

FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER M.42

10:25:22 AM 10/26/2017 mplummer pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\78029166-M.sht

KANE TWP
T-75 R-44W
SEC.33

3001
3002
3003
3004
3005
3006
3007

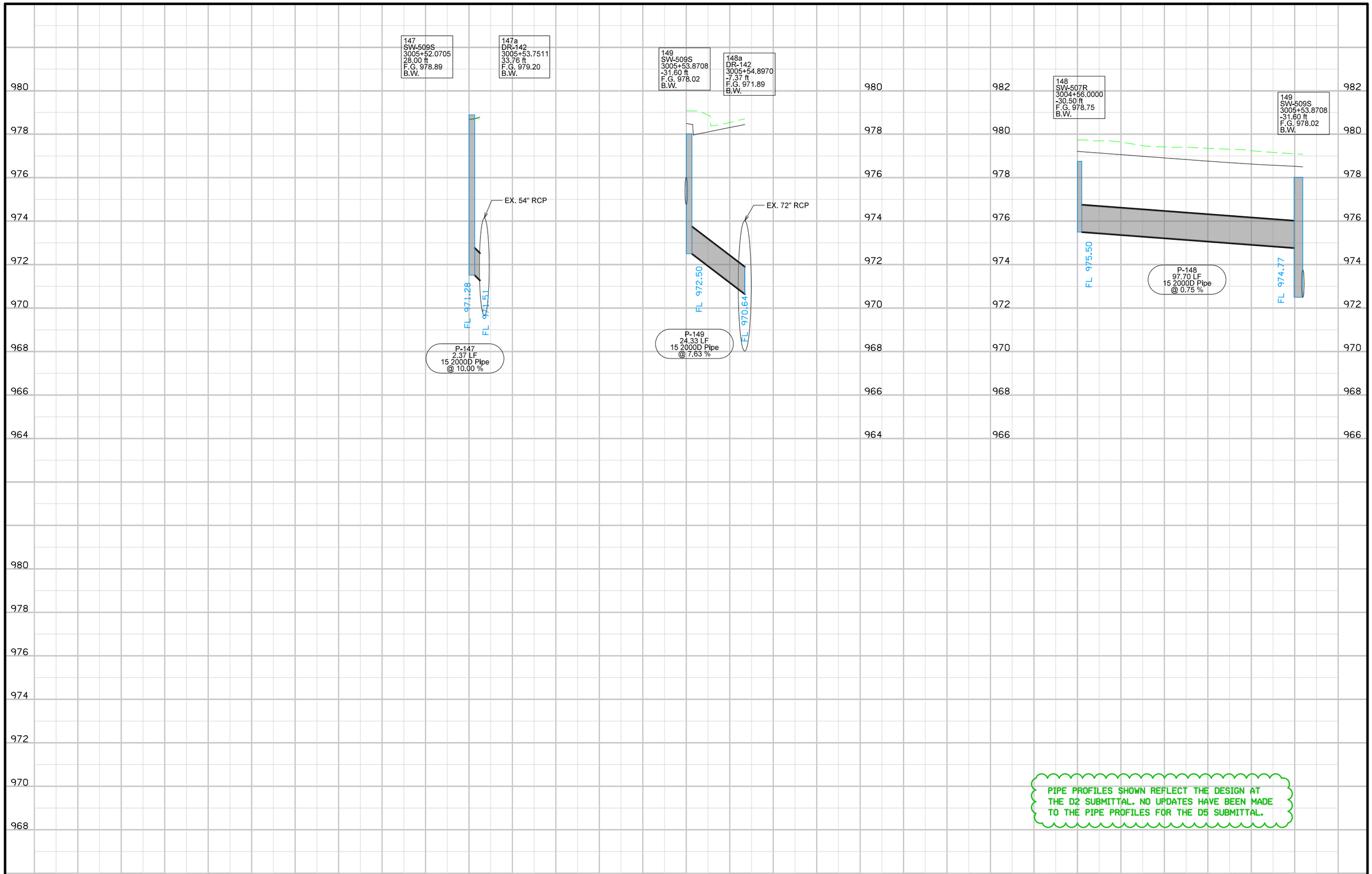
148
149
148a
147
147a
143

9TH AVE.
9TH AVE. RAMP C
SB FRONTAGE RD.
I-29

0 20
FEET

FILE NO.	ENGLISH	DESIGN TEAM Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER IM-029-3(166)54--13-78	SHEET NUMBER M.43

10:25:25 AM 10/26/2017 mplummer pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\78029166-M.sht



PIPE PROFILES SHOWN REFLECT THE DESIGN AT THE D2 SUBMITTAL. NO UPDATES HAVE BEEN MADE TO THE PIPE PROFILES FOR THE D5 SUBMITTAL.

9TH AVE. RAMP B

NB FRONTAGE RD.

8TH TO 6TH CONN.

9TH AVE.

8TH AVE.

KANE TWP
T-75 R-44W
SEC.33

BLDG.

Ho.

8000 8001 8002 8003 8004 8005 8100 8101 8102

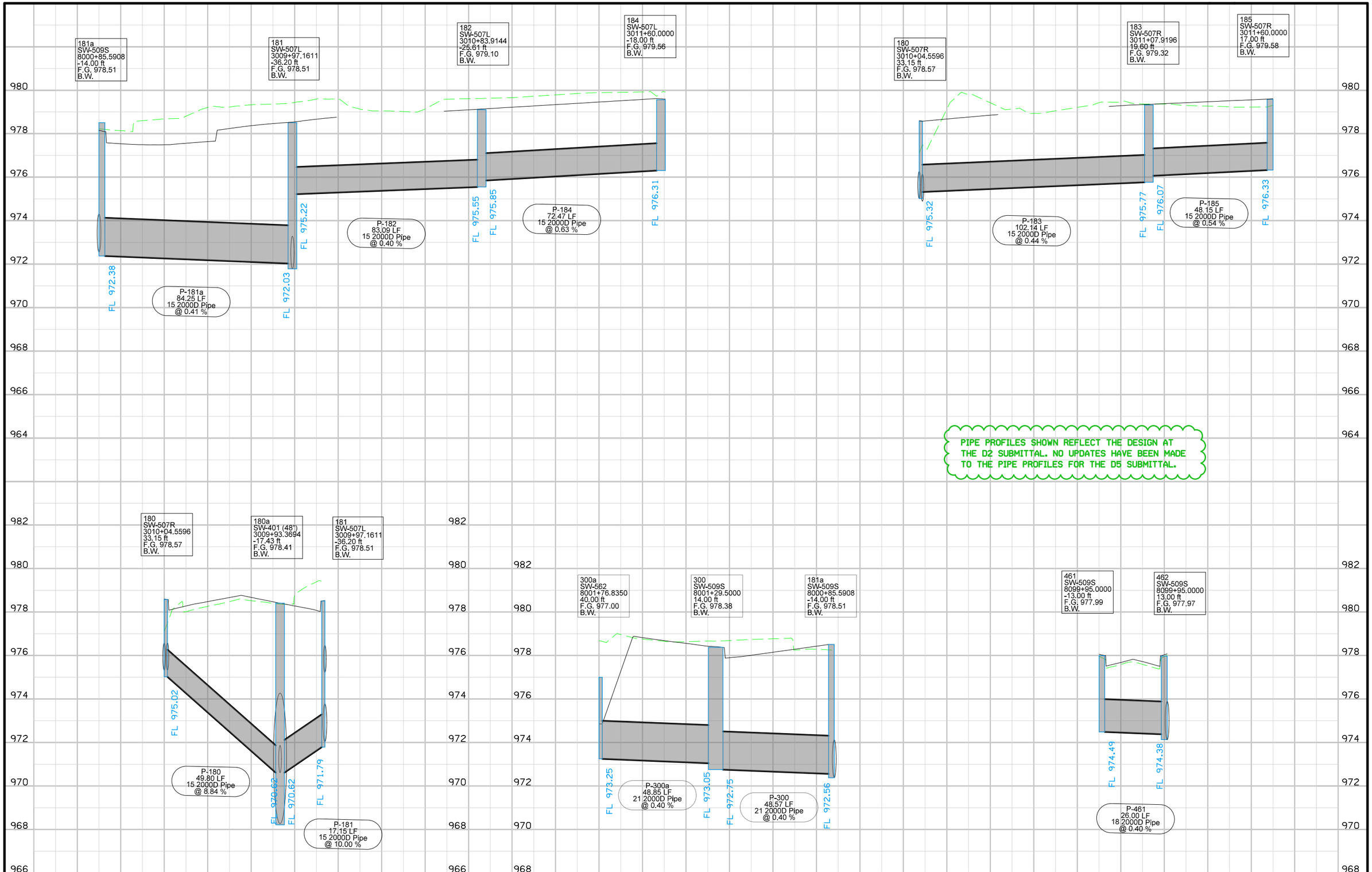
3009 3010 3011 3012 6608

124b 180 180a 181a 182 182a 183 184 185 300 300a 302 303 304 461 462 462a

0 FEET 20

FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER M.45

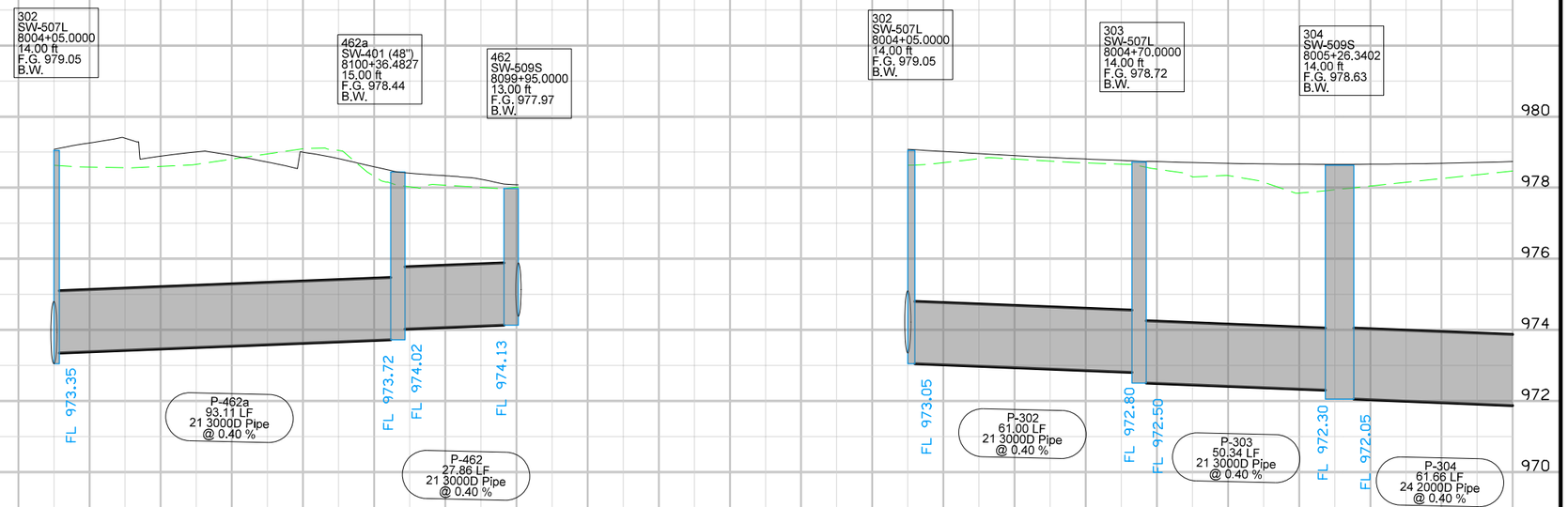
10:25:28 AM 10/26/2017 mplummer pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\78029166-M.sht



PIPE PROFILES SHOWN REFLECT THE DESIGN AT THE D2 SUBMITTAL. NO UPDATES HAVE BEEN MADE TO THE PIPE PROFILES FOR THE D5 SUBMITTAL.

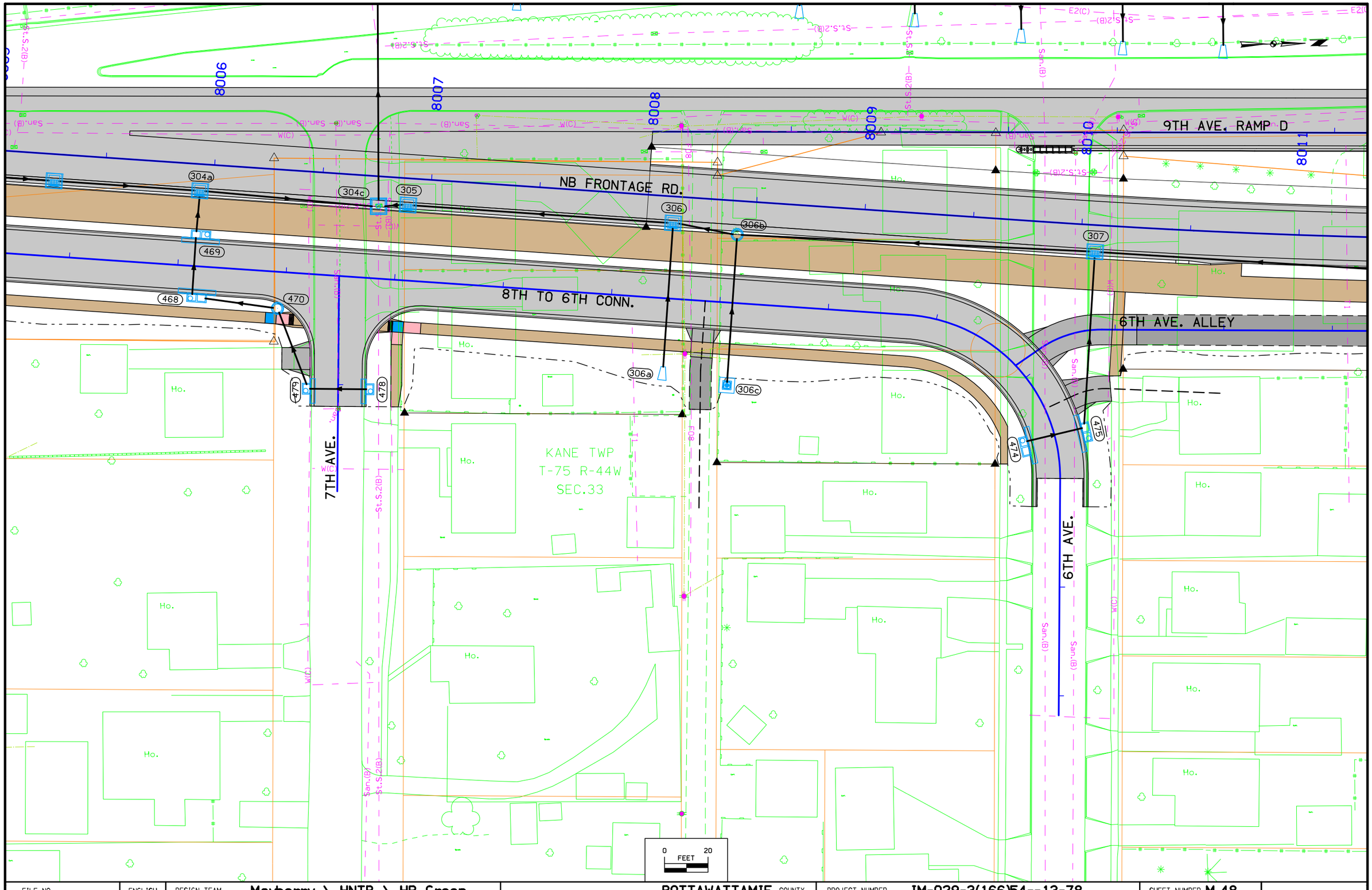
FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER M.46

10:25:30 AM 10/26/2017 mplummer pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\78029166-M.sht



PIPE PROFILES SHOWN REFLECT THE DESIGN AT THE D2 SUBMITTAL. NO UPDATES HAVE BEEN MADE TO THE PIPE PROFILES FOR THE D5 SUBMITTAL.

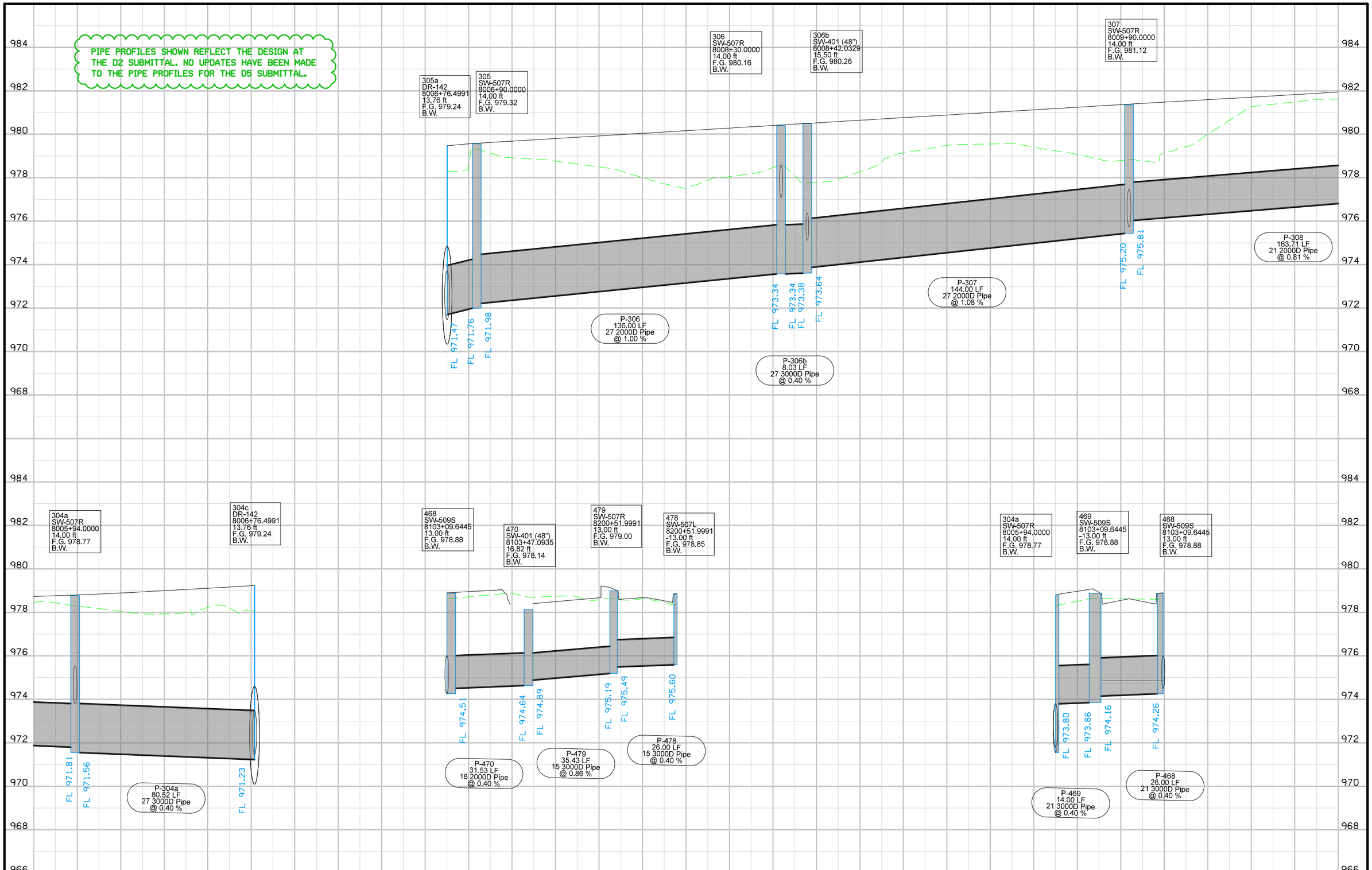
FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER M.47



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER M.48

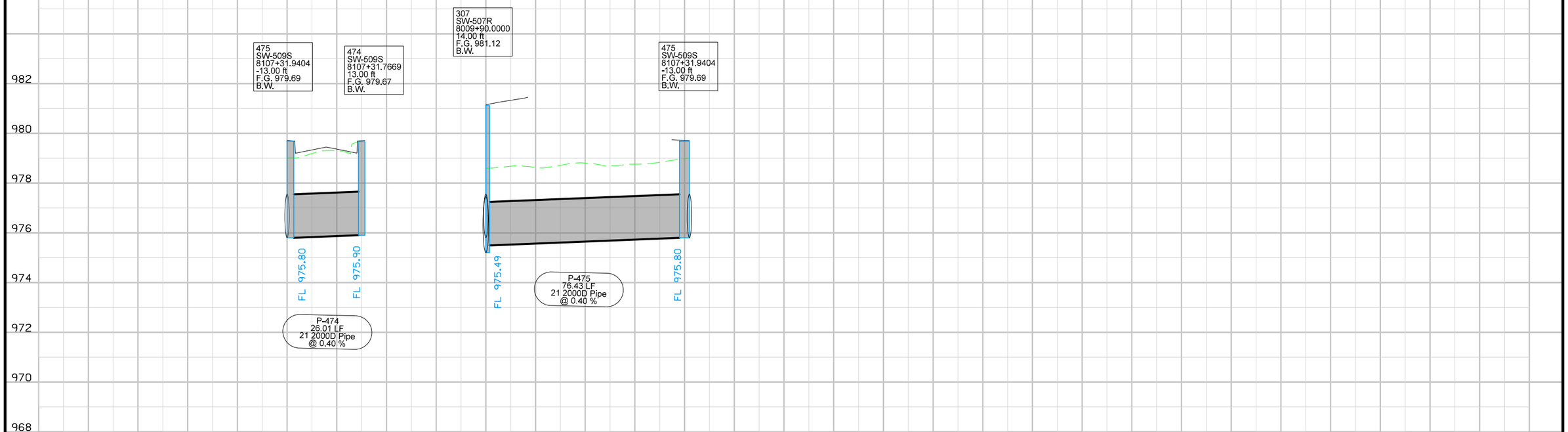
10:25:33 AM 10/26/2017 mplummer pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\78029166-M.sht

PIPE PROFILES SHOWN REFLECT THE DESIGN AT THE D2 SUBMITTAL. NO UPDATES HAVE BEEN MADE TO THE PIPE PROFILES FOR THE D5 SUBMITTAL.



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER M.49

PIPE PROFILES SHOWN REFLECT THE DESIGN AT THE D2 SUBMITTAL. NO UPDATES HAVE BEEN MADE TO THE PIPE PROFILES FOR THE D5 SUBMITTAL.



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER M.50

I-29

I-480 RAMP H

9TH AVE. RAMP D

NB FRONTAGE RD.

4TH TO 3RD CONN.

6TH AVE.

5TH AVE.

4TH AVE.

308

308a

309

454

455

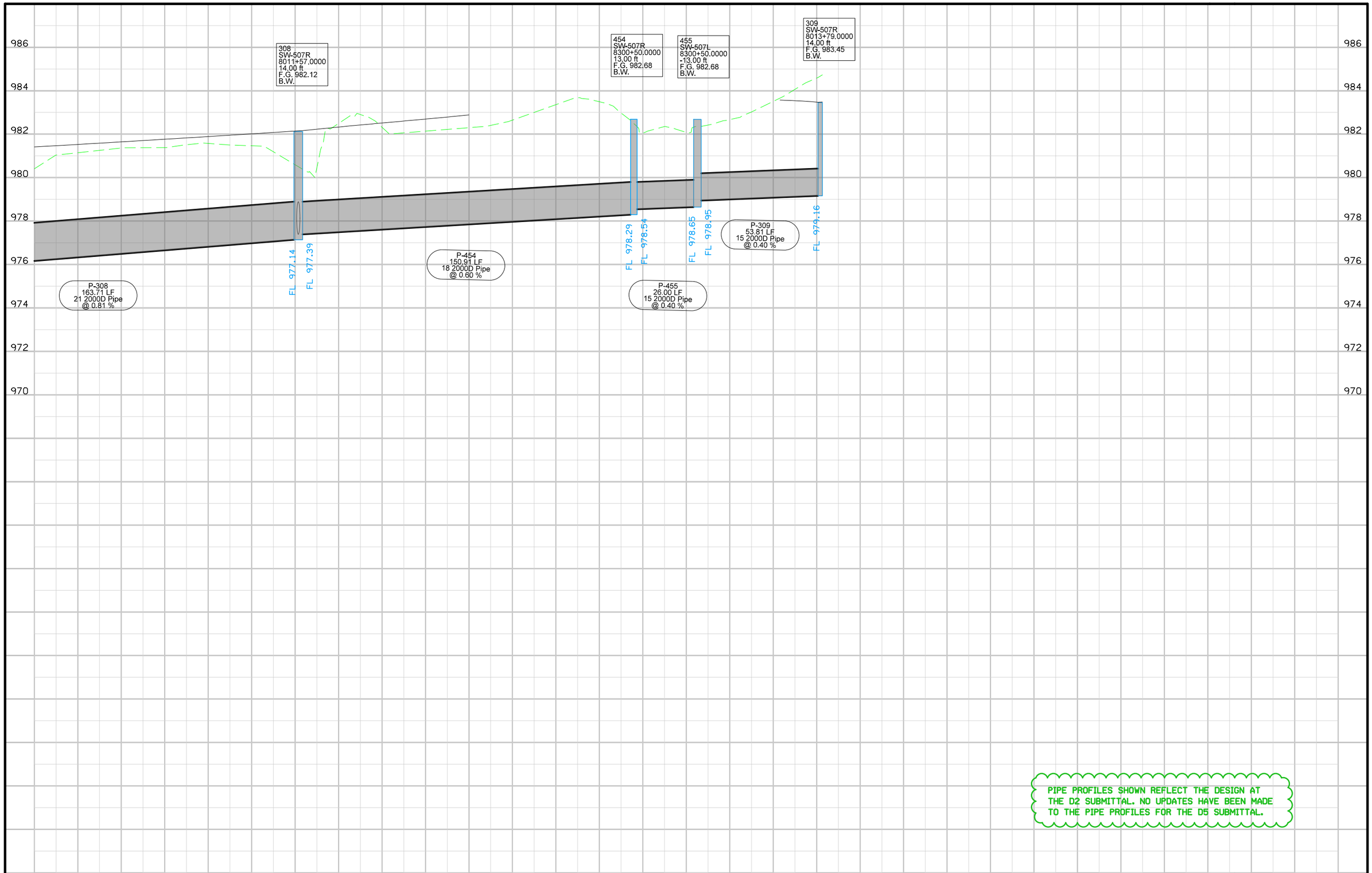
KANE TWP
T-75 R-44W
SEC.33

BLDG.

0 20
FEET

FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER M.51

10:25:39 AM 10/26/2017 mplummer pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\78029166-M.sht



PIPE PROFILES SHOWN REFLECT THE DESIGN AT THE D2 SUBMITTAL. NO UPDATES HAVE BEEN MADE TO THE PIPE PROFILES FOR THE D5 SUBMITTAL.

FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER M.52

I-29

KANE TWP
T-75 R-44W
SEC.33

9TH AVE. RAMP D

I-480 RAMP H

8017

8018

8019

8020

8021

8022

313b

313a

311

312

313

NB FRONTAGE RD.

4TH TO 3RD CONN.

484

483

3RD AVE. ALLEY

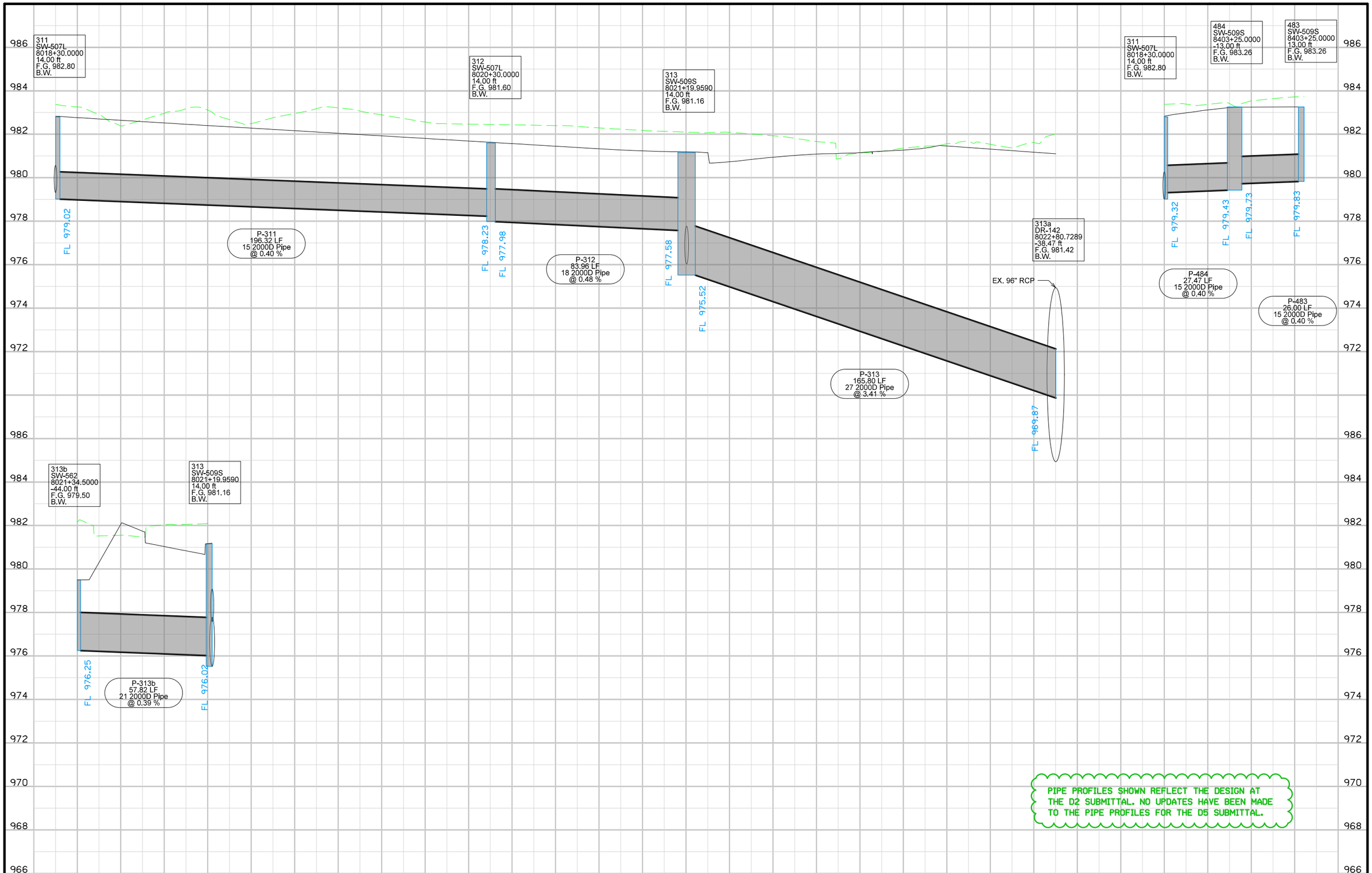
3RD AVE.

2ND AVE.

0 FEET 20

FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER M.53

10:25:42 AM 10/26/2017 mplummer pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\78029166-M.sht



PIPE PROFILES SHOWN REFLECT THE DESIGN AT THE D2 SUBMITTAL. NO UPDATES HAVE BEEN MADE TO THE PIPE PROFILES FOR THE D5 SUBMITTAL.

FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER M.54

I-480 RAMP H

NB FRONTAGE RD.

8023
8024
8025
8026
8027
8028

St.S.2
San.(B)
F02
T1
Ho.
SIGN

314
315
318
319

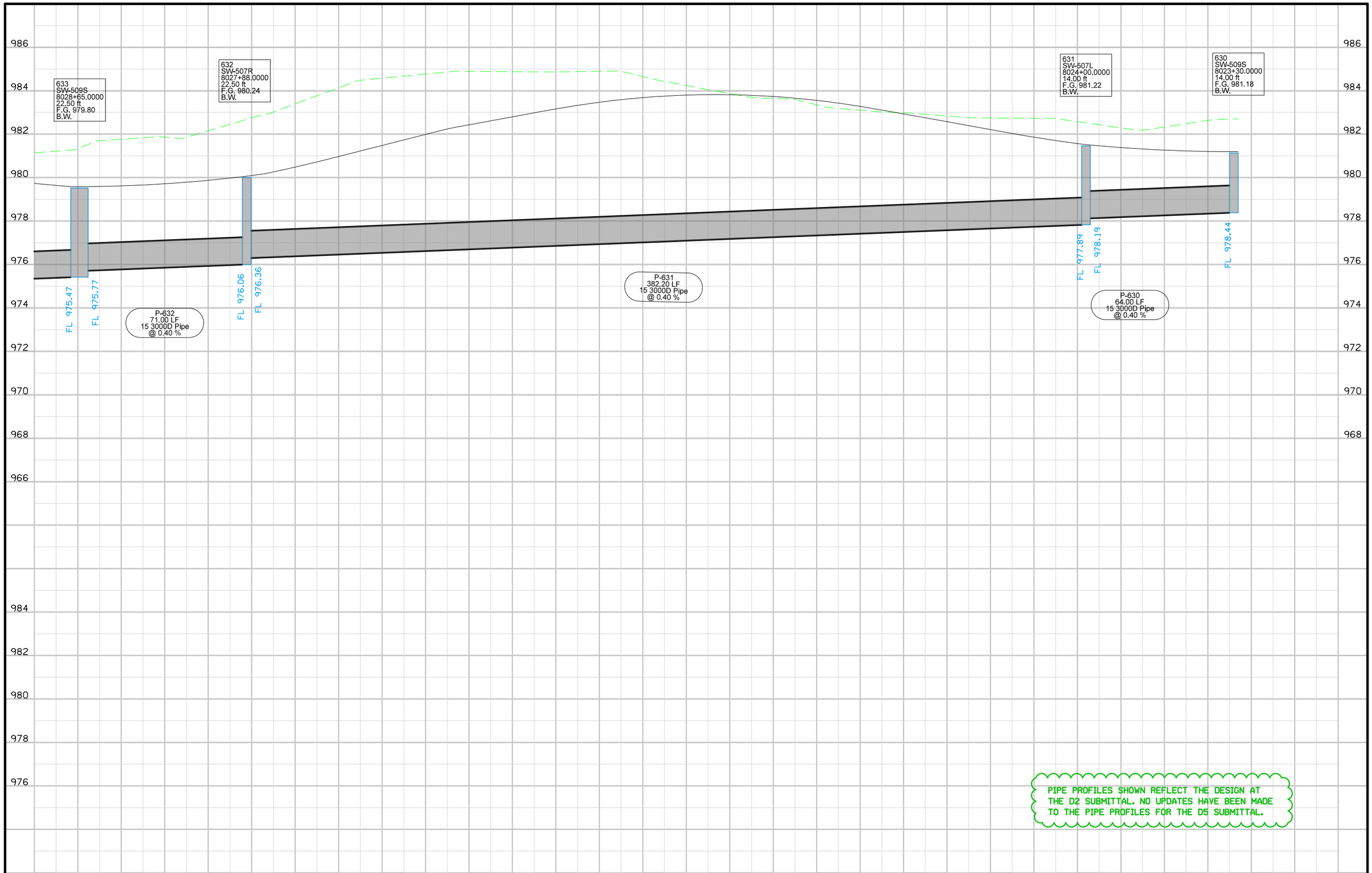
KANE TWP
T-75 R-44W
SEC.33

KANE TWP
T-75 R-44W
SEC.28

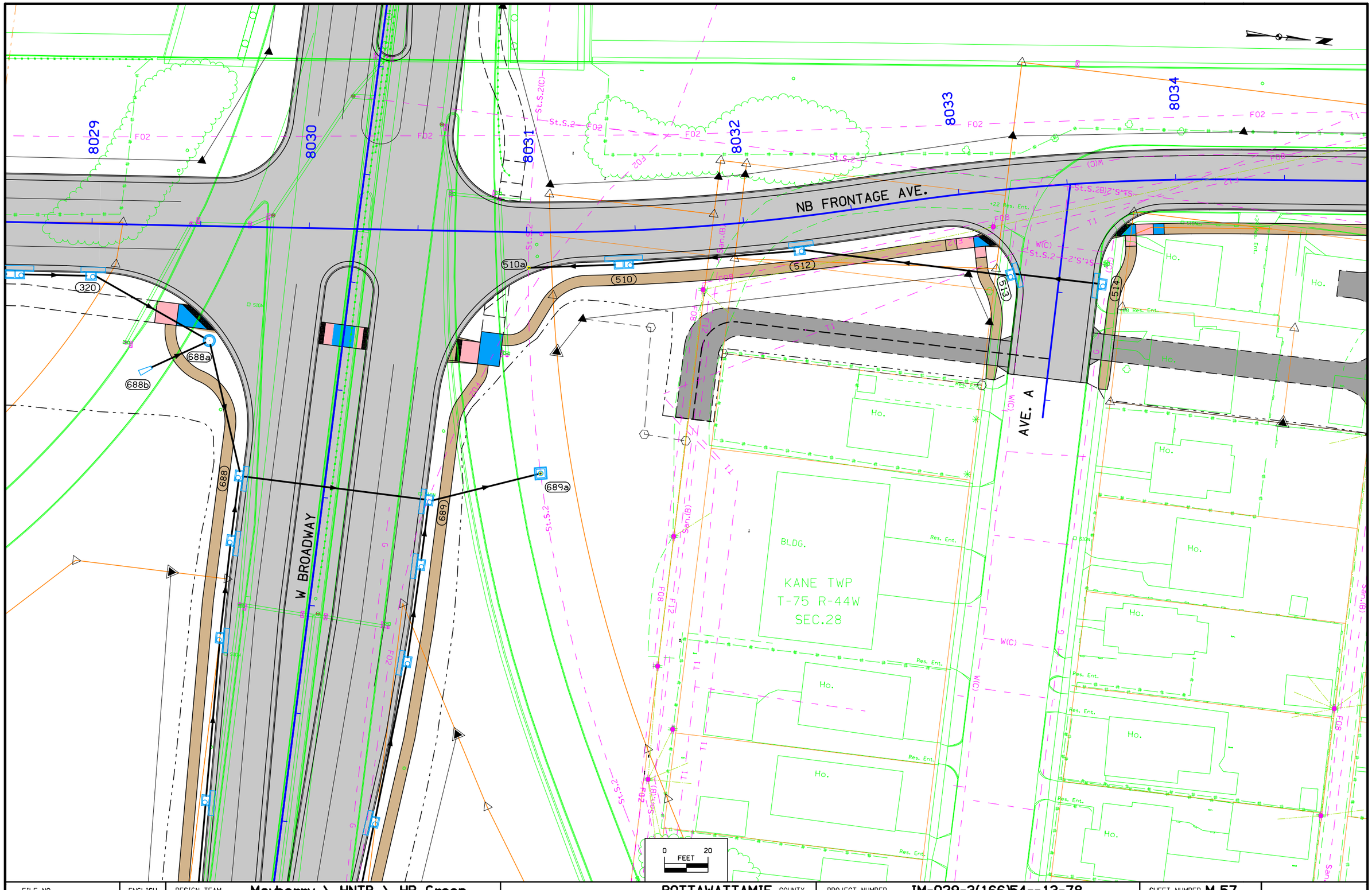
0 FEET 20

FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER M.55

10:25:48 AM 10/26/2017 mplummer pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\78029166-M.sht

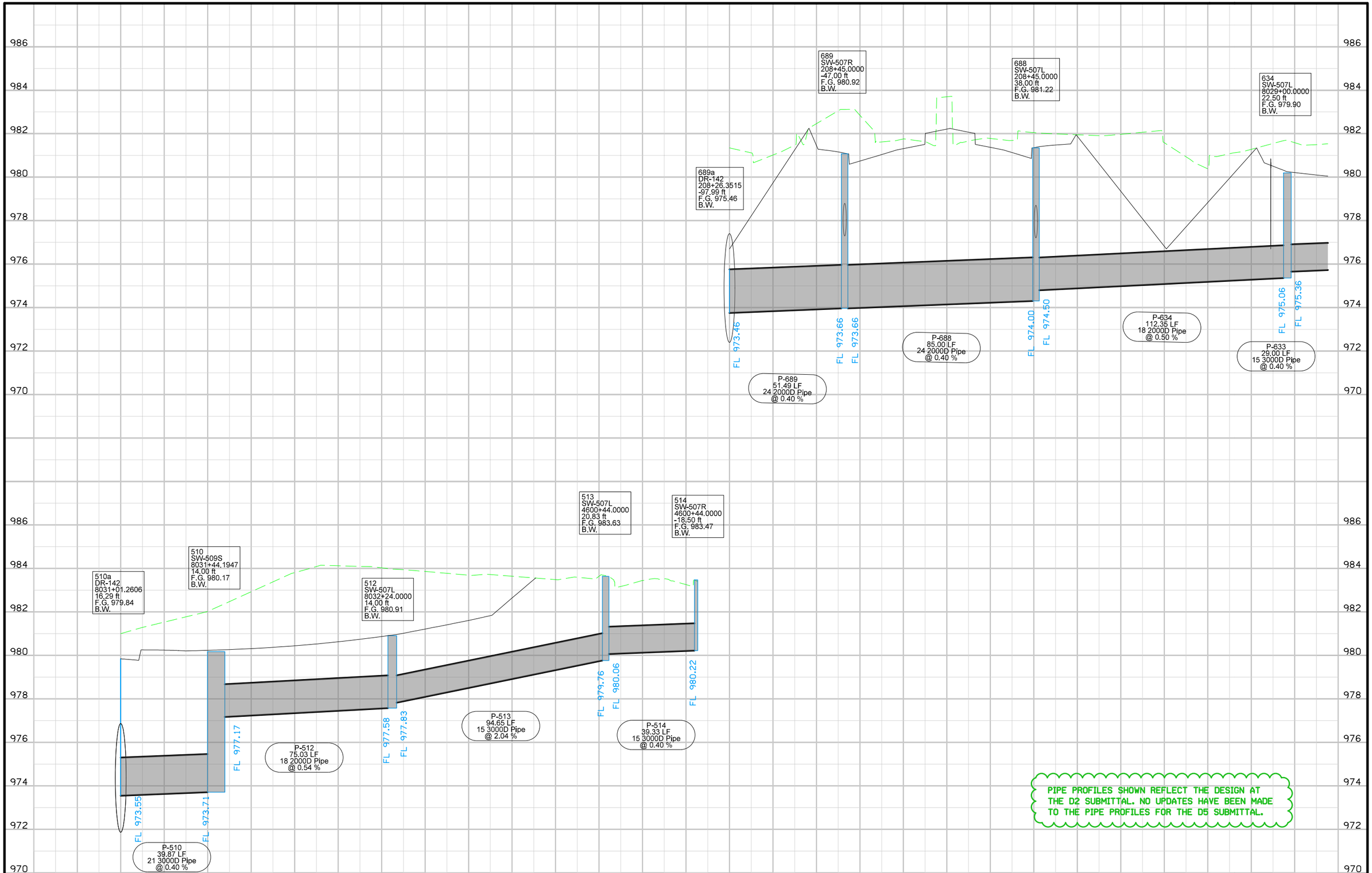


FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER M.56



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER M.57

10:25:52 AM 10/26/2017 mplummer pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\78029166-M.sht



PIPE PROFILES SHOWN REFLECT THE DESIGN AT THE D2 SUBMITTAL. NO UPDATES HAVE BEEN MADE TO THE PIPE PROFILES FOR THE D5 SUBMITTAL.

KANE TWP
T-75 R-44W
SEC.28

I-480 RAMP F

NB FRONTAGE RD.

37TH ST.

AVE. B

AVE. C

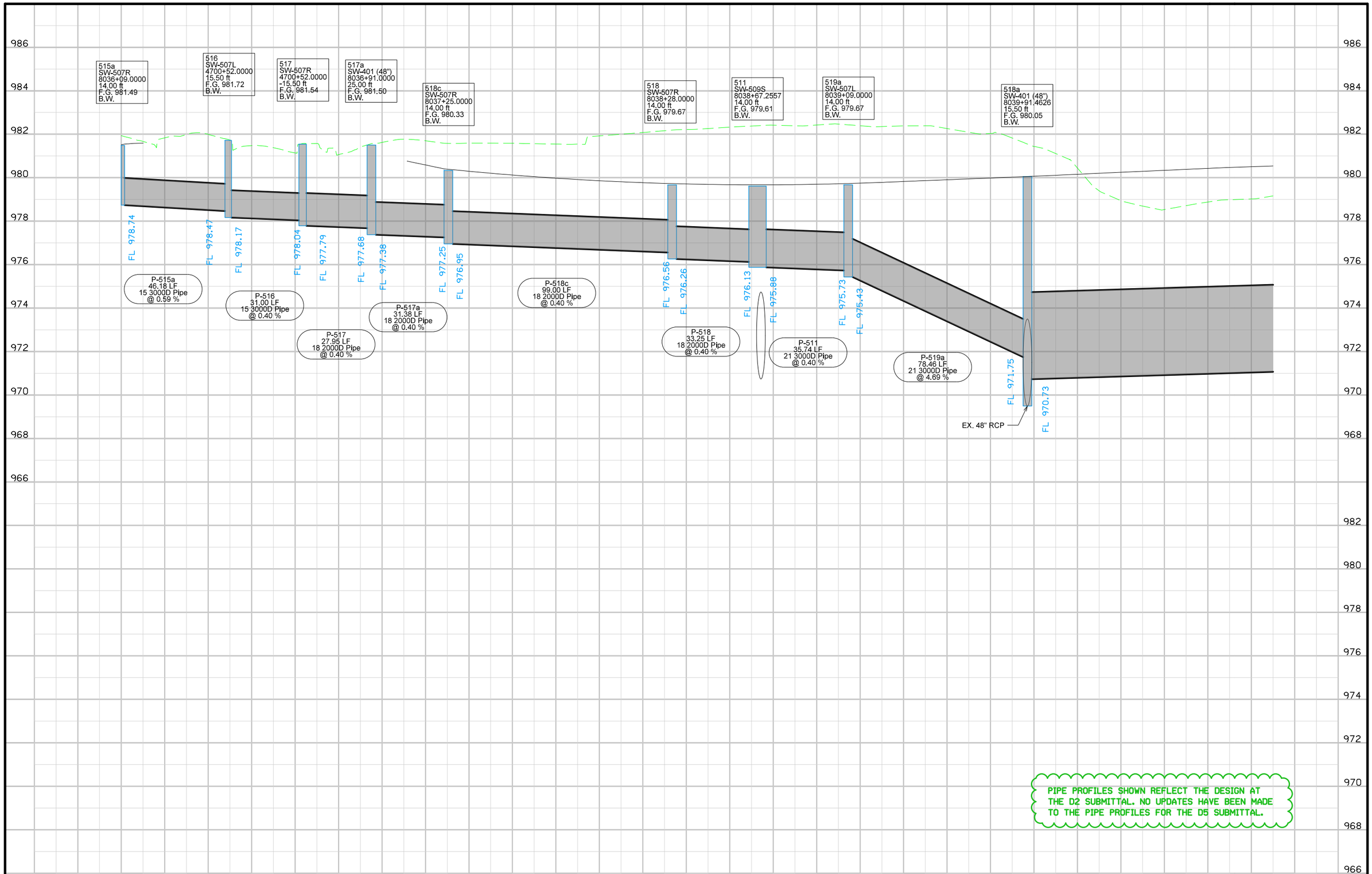
8036 8037 8038 8039 8040 8041

515a 516 517 517a 518c 518 511 519a 518a

0 20
FEET

FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER M.59

10:25:55 AM 10/26/2017 mplummer pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\78029166-M.sht



PIPE PROFILES SHOWN REFLECT THE DESIGN AT THE D2 SUBMITTAL. NO UPDATES HAVE BEEN MADE TO THE PIPE PROFILES FOR THE D5 SUBMITTAL.

FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER M.60

10:25:57 AM 10/26/2017 mplummer pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\78029166-M.sht

KANE TWP
T-75 R-44W
SEC.28

I-480 RAMP F

8042 8043 8044 8045 8046 8047

549

NB FRONTAGE RD.

524 521 525

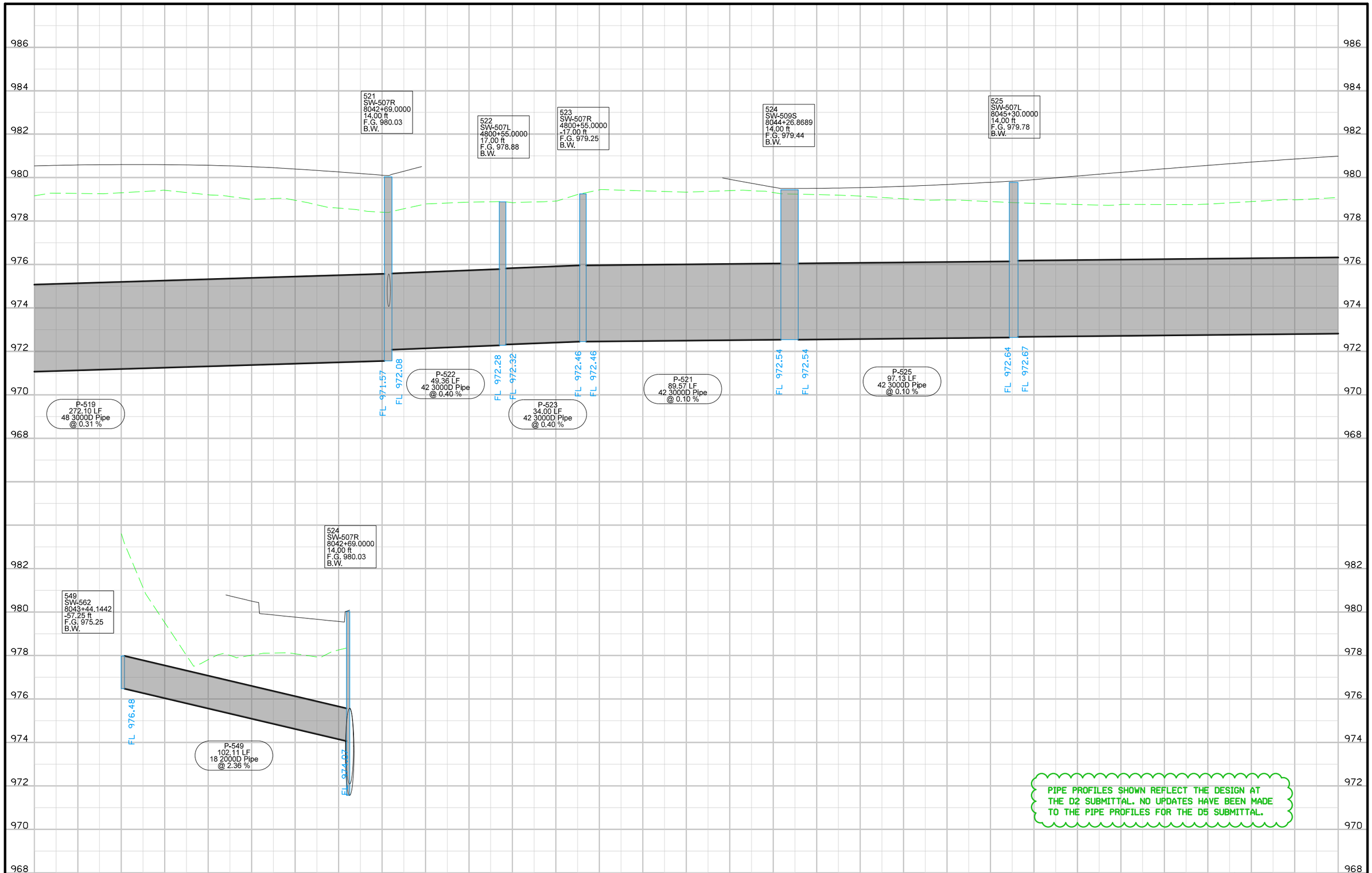
AVE. D

522 523

0 FEET 20

FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER M.61

10:25:59 AM 10/26/2017 mplummer pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\78029166-M.sht



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER M.62

I-480 RAMP F

I-29

KANE TWP
T-75 R-44W
SEC.28

8048

8049

8050

8051

8052

NB FRONTAGE RD.

37TH ST.

AVE. G

526

526a

526b

527

527a

548

BOTT. OF FTG
ELEV. 991.81

980.49

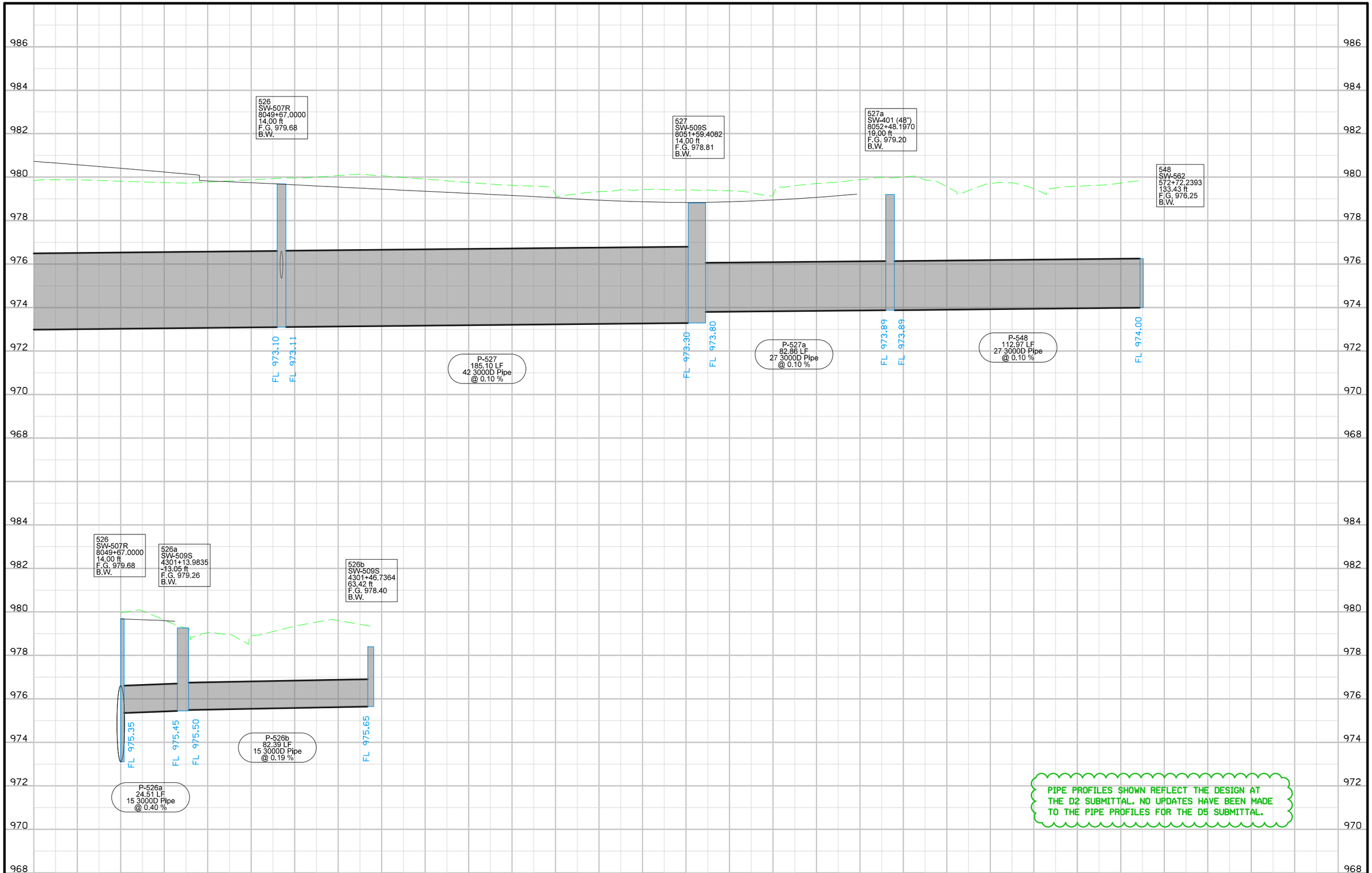
BLDG.

Ho.

0 FEET 20

FILE NO.	ENGLISH	DESIGN TEAM Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER IM-029-3(166)54--13-78	SHEET NUMBER M.63

10:26:02 AM 10/26/2017 mplummer pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\78029166-M.sht



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER M.64

KANE TWP
T-75 R-44W
SEC.33

KANE TWP
T-75 R-44W
SEC.28

9029
9030
9031
9032
9033
9034

174a
173
174
175
500
501
501a

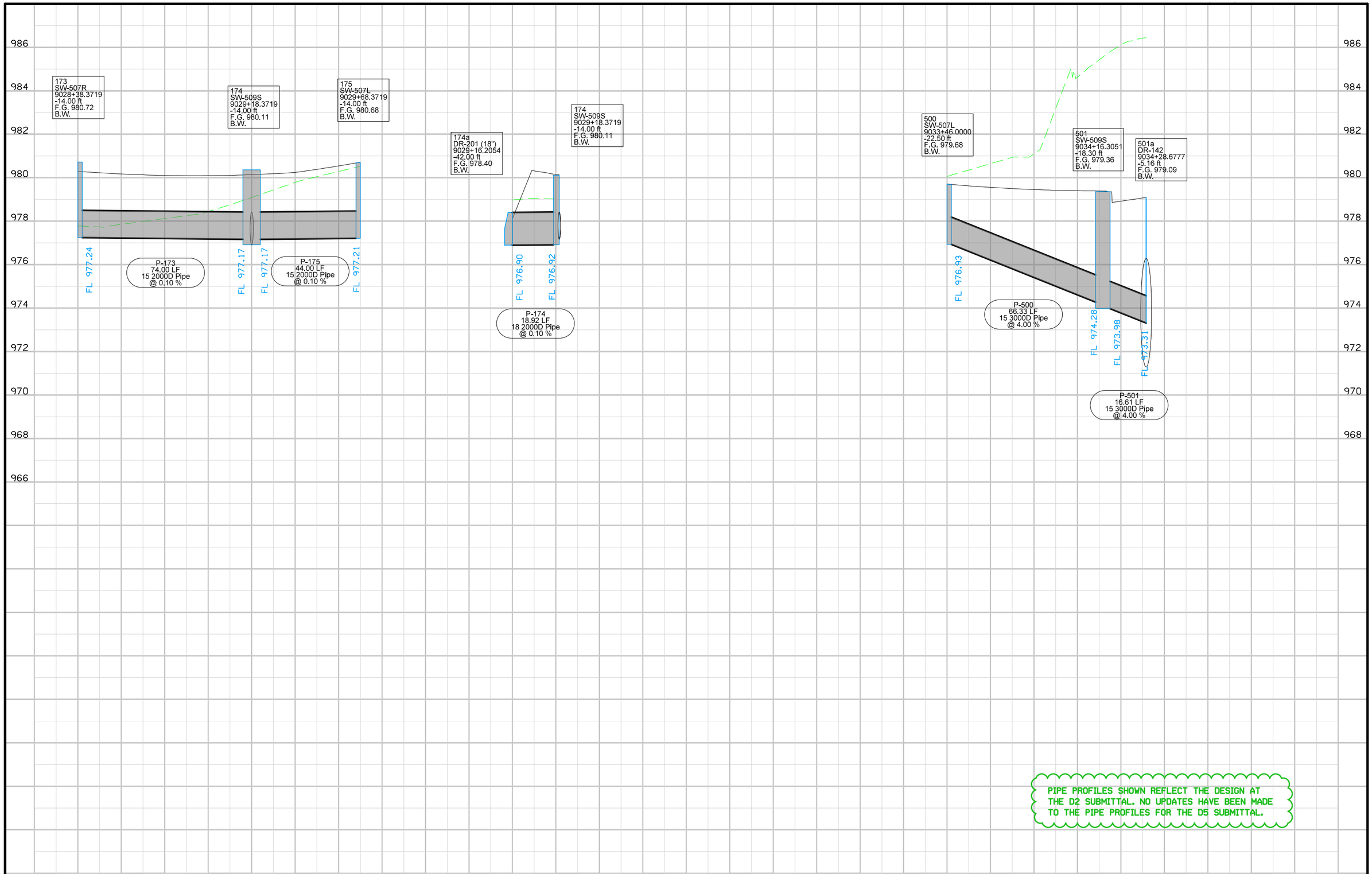
SB FRONTAGE RD.
W BROADWAY
I-480 RAMP H
I-480 RAMP F
I-29

E2(C)
St.S.2(C)

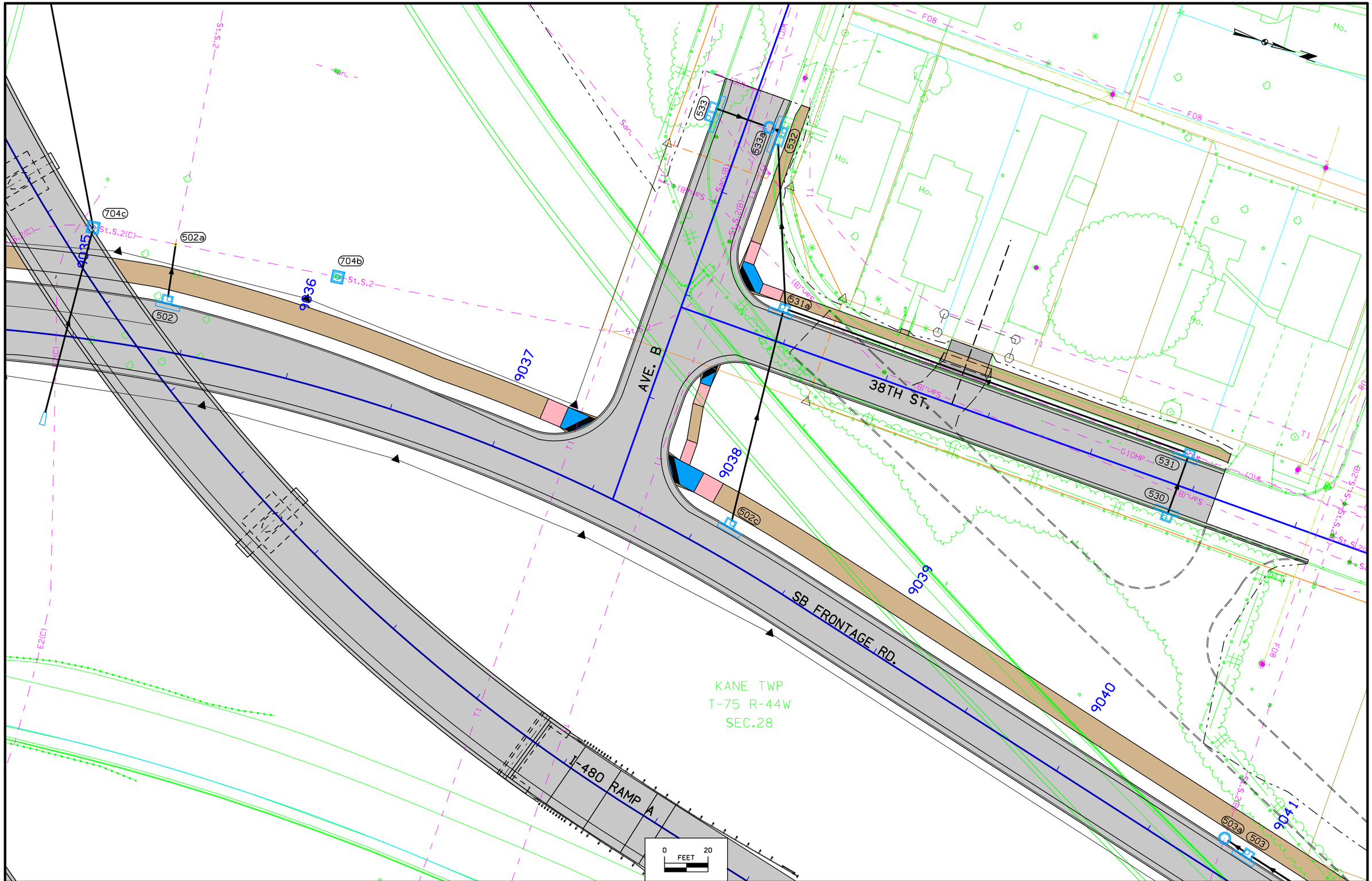
0 20
FEET

FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER M.65

10:26:06 AM 10/26/2017 mplummer pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\78029166-M.sht



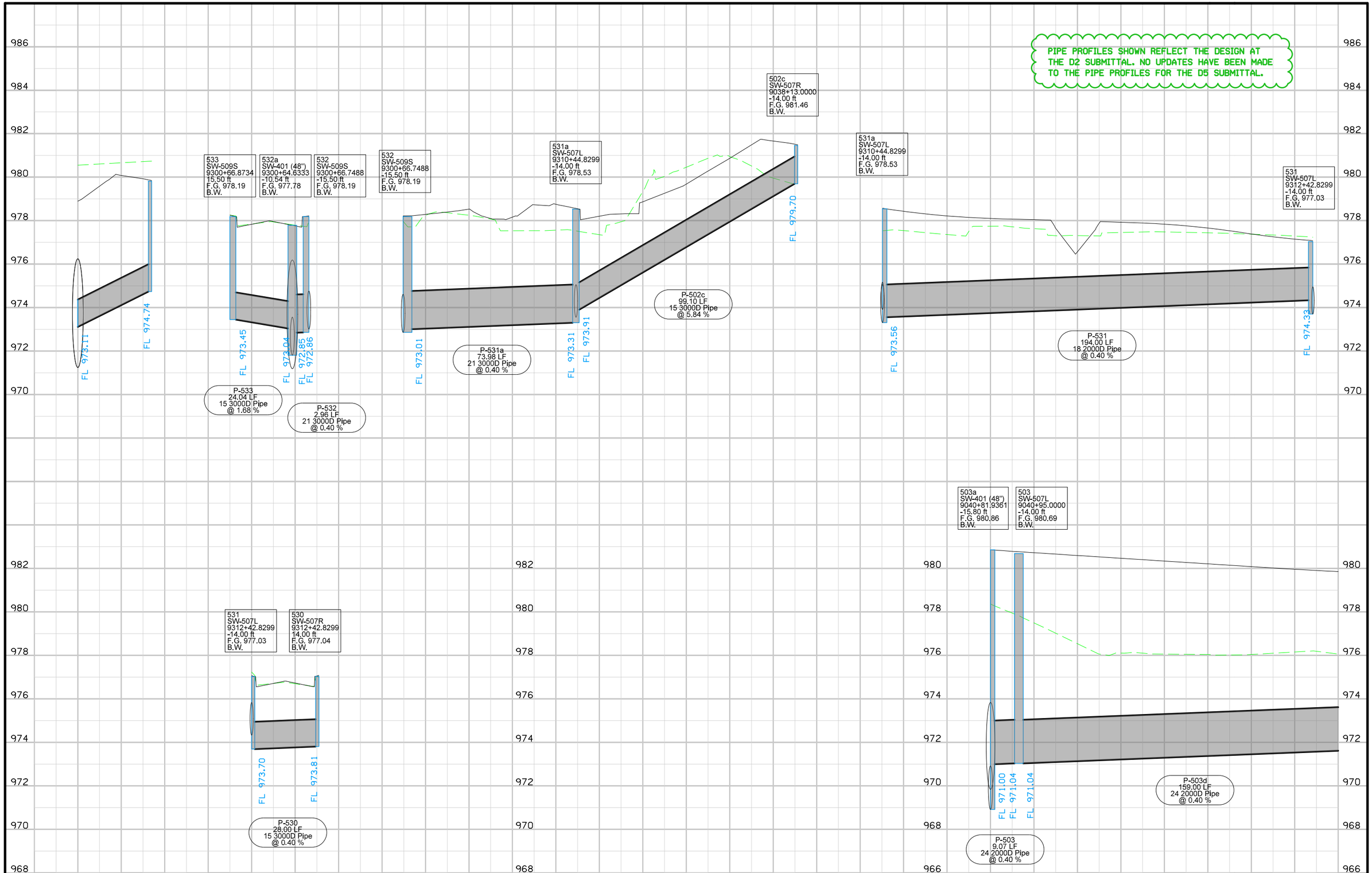
PIPE PROFILES SHOWN REFLECT THE DESIGN AT THE D2 SUBMITTAL. NO UPDATES HAVE BEEN MADE TO THE PIPE PROFILES FOR THE D5 SUBMITTAL.



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER M.67

10:26:10 AM 10/26/2017 mplummer pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\78029166-M.sht

PIPE PROFILES SHOWN REFLECT THE DESIGN AT THE D2 SUBMITTAL. NO UPDATES HAVE BEEN MADE TO THE PIPE PROFILES FOR THE D5 SUBMITTAL.



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER M.68

10:26:12 AM 10/26/2017 mplummer pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\78029166-M.sht

AVE. D

SB FRONTAGE RD.

I-480 RAMP A

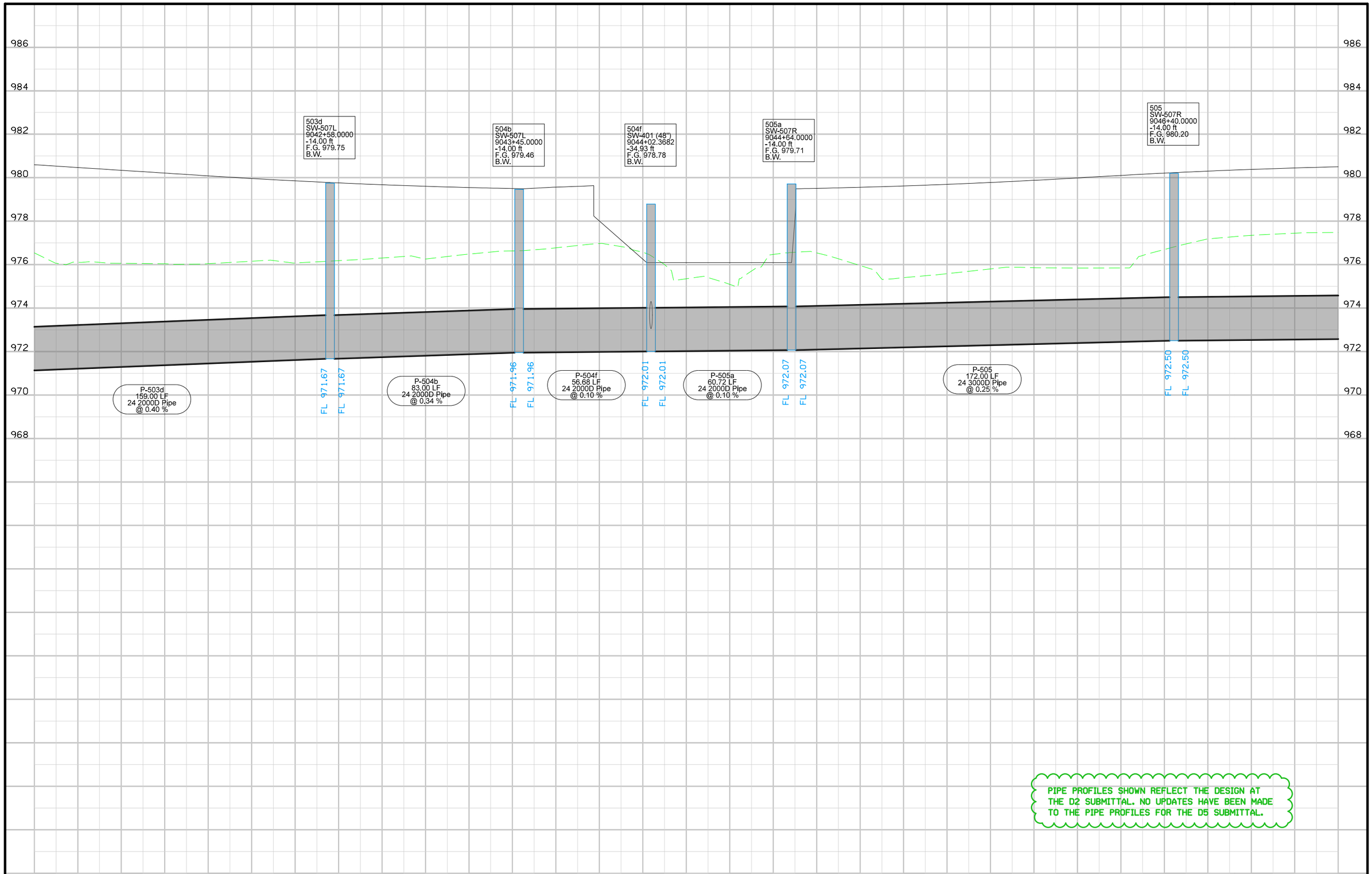
9042 9043 9044 9045 9046 9047

503d 504b 504f 505a 505 504 504a 504c

0 FEET 20

FILE NO.	ENGLISH	DESIGN TEAM Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER IM-029-3(166)54--13-78	SHEET NUMBER M.69

10:26:14 AM 10/26/2017 mplummer pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\78029166-M.sht



PIPE PROFILES SHOWN REFLECT THE DESIGN AT THE D2 SUBMITTAL. NO UPDATES HAVE BEEN MADE TO THE PIPE PROFILES FOR THE D5 SUBMITTAL.

FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER M.70

KANE TWP
T-75 R-44W
SEC.28

BENSON ST.

AVE. G

SB FRONTAGE RD.

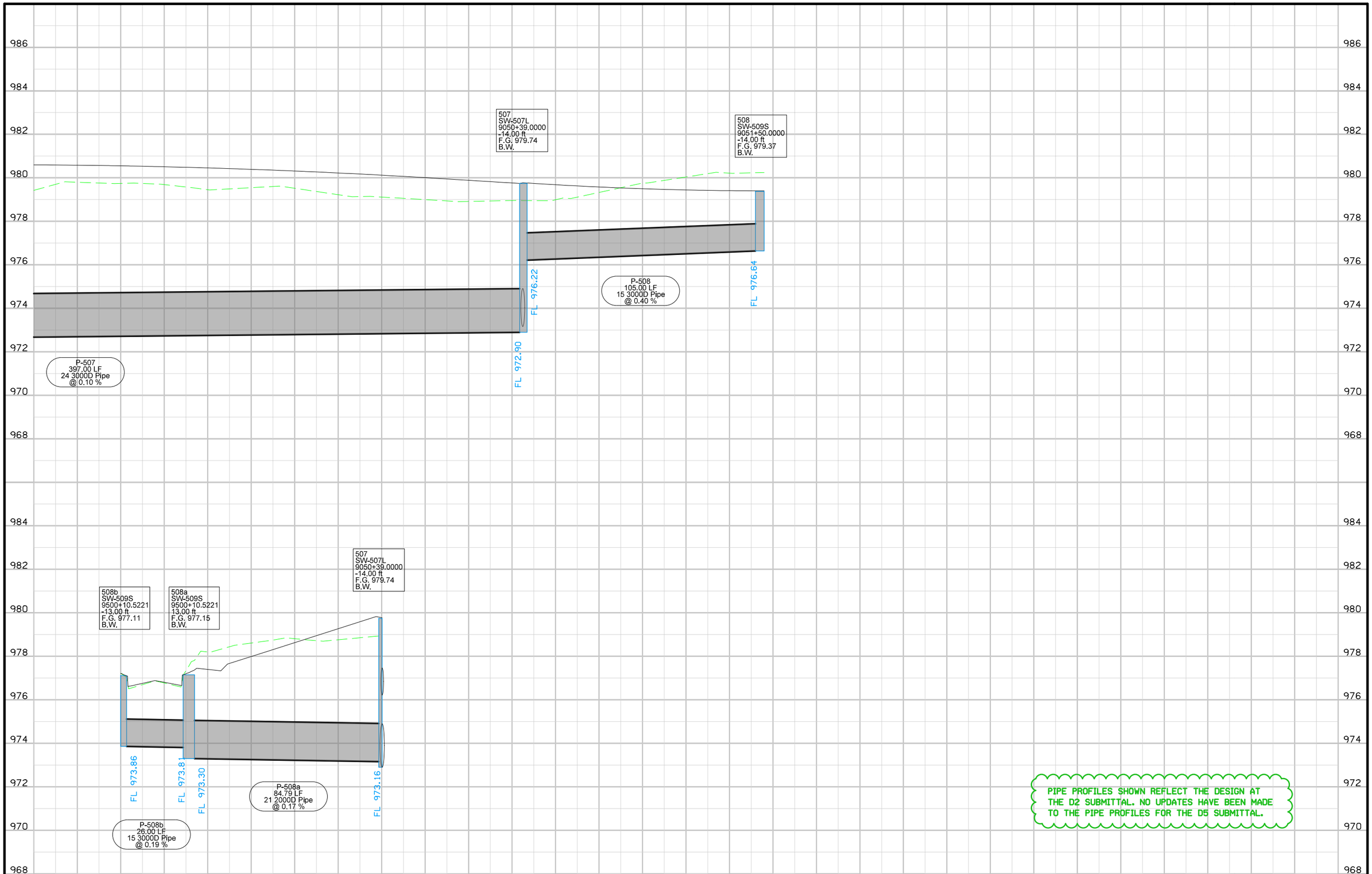
9048 9049 9050 9051 9052 9053

507 508 508a 508b

0 20
FEET

FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER M.71

10:26:20 AM 10/26/2017 mplummer pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\78029166-M.sht

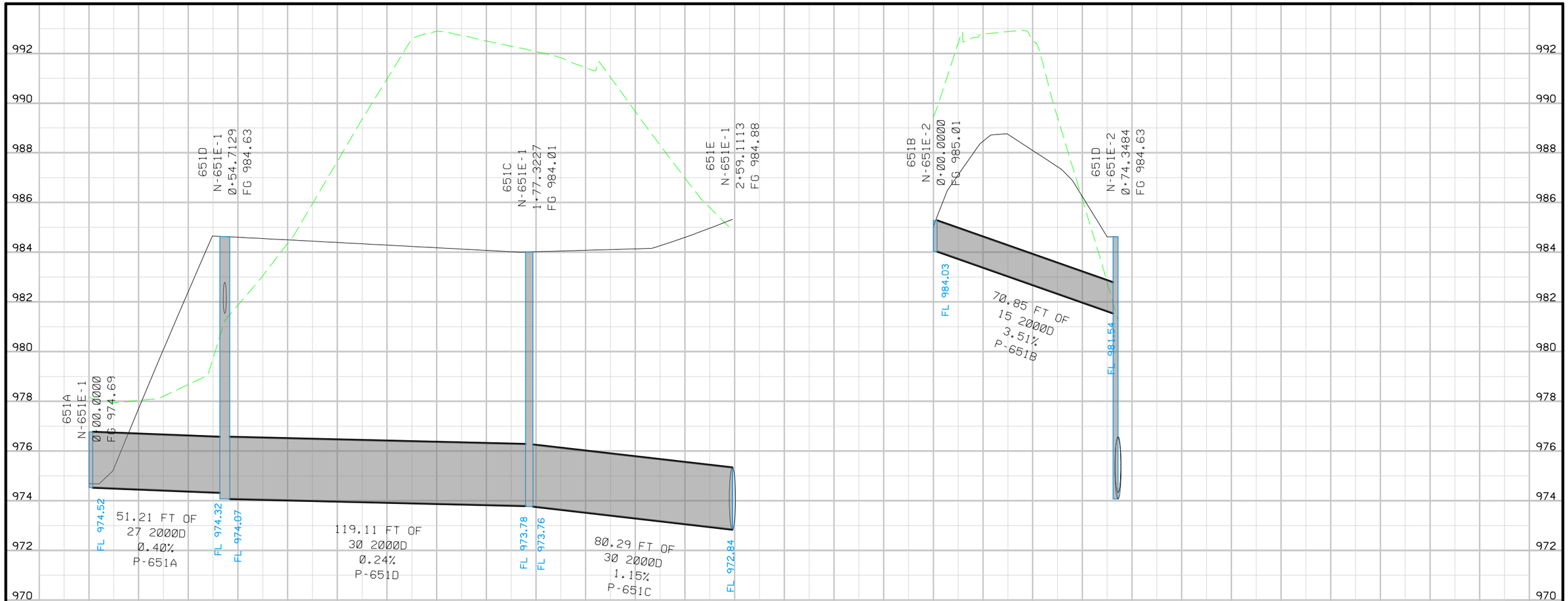


FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER M.72

1571
1572
1573
1574
1575
1576
651a
651b
651c
651d
651e
AVE. G RAMP A
E2(C)
S1,S2
0 20
FEET

FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER M.73

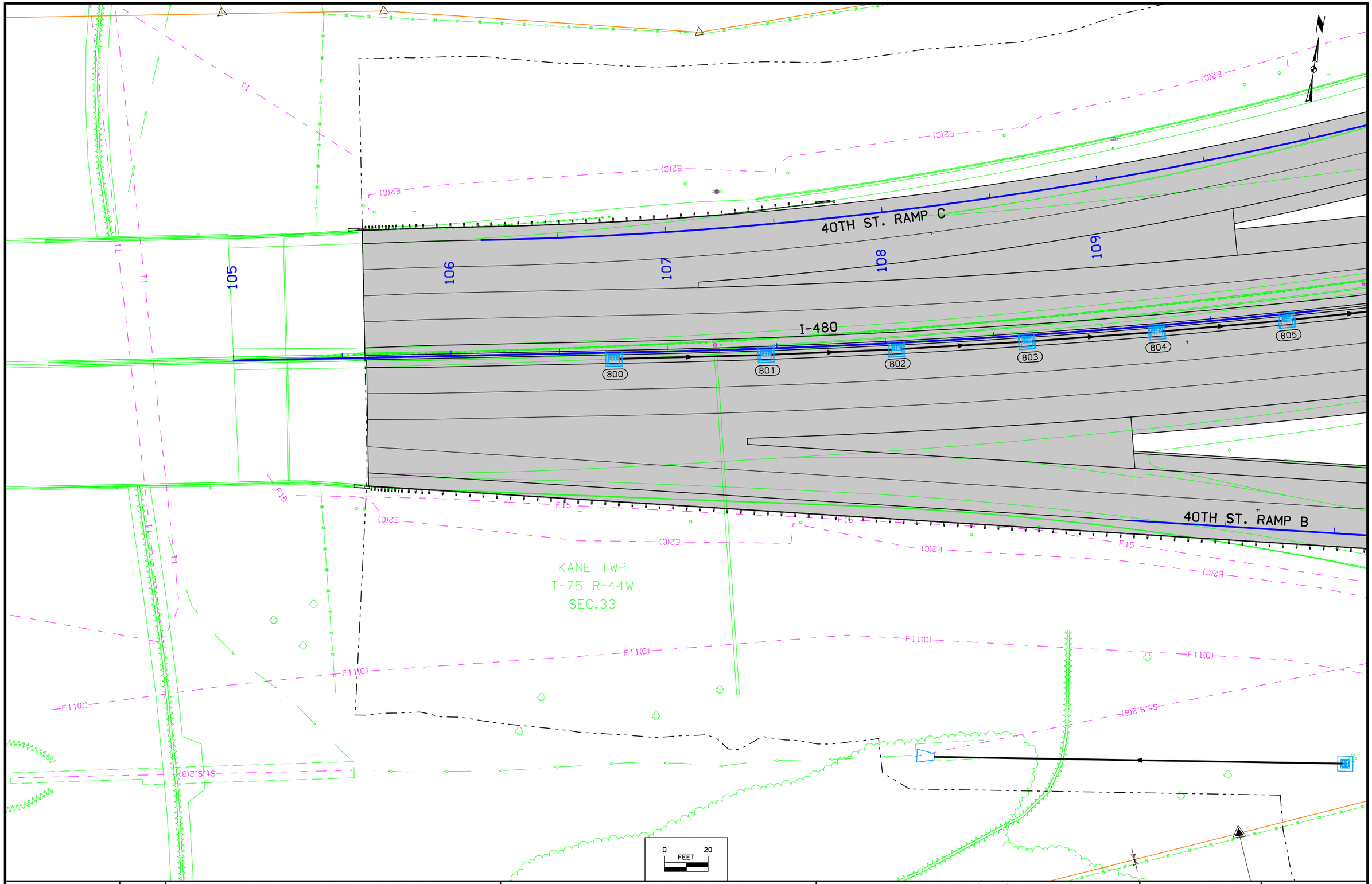
10:26:23 AM 10/26/2017 mplummer pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\78029166-M.sht



PIPE PROFILES SHOWN REFLECT THE DESIGN AT THE D2 SUBMITTAL. NO UPDATES HAVE BEEN MADE TO THE PIPE PROFILES FOR THE D5 SUBMITTAL.

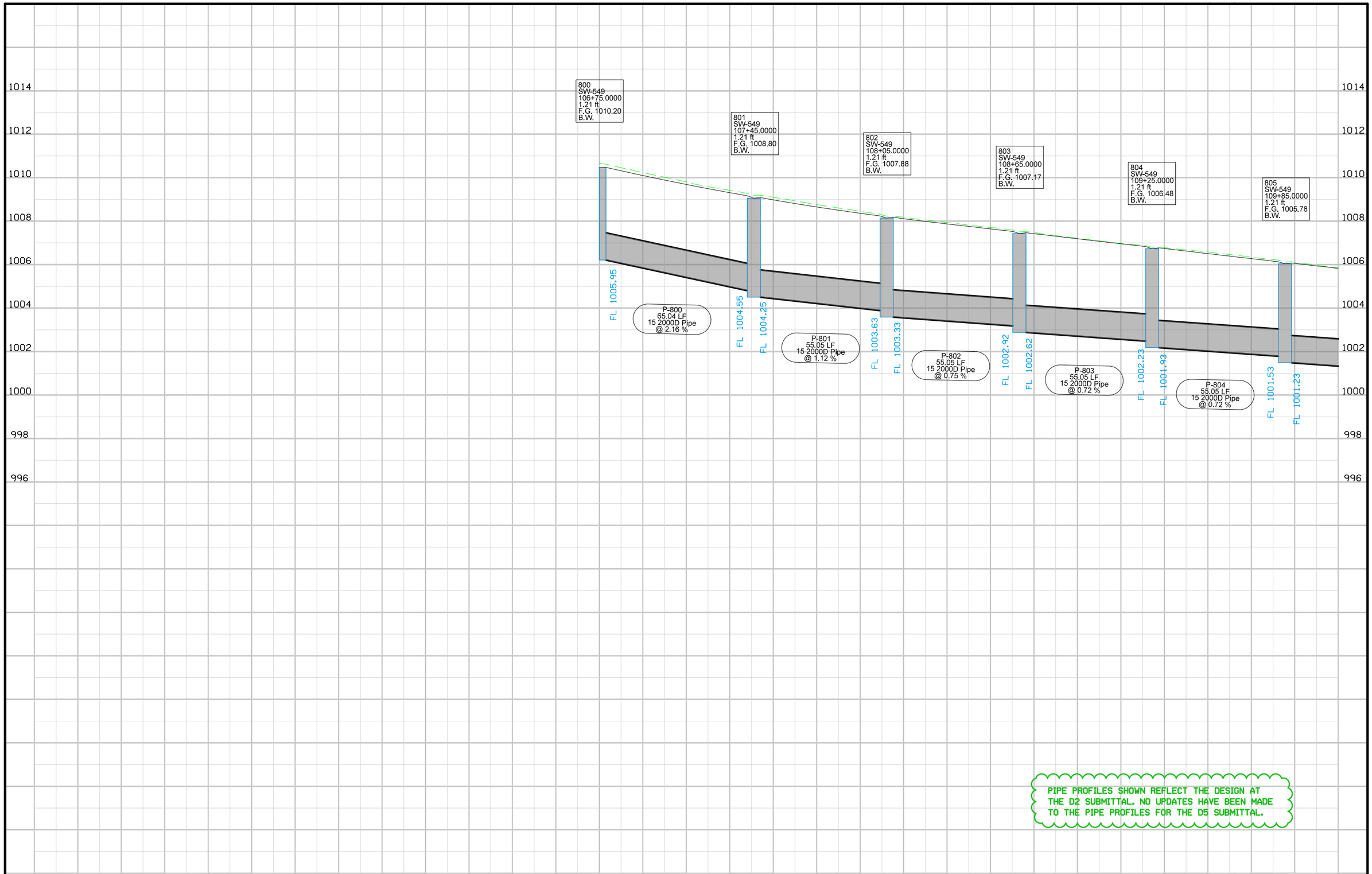
FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER M.74

10:26:25 AM 10/26/2017 mplummer pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\78029166-M.sht



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER M.75

10:26:27 AM 10/26/2017 mplummer pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\78029166-M.sht



PIPE PROFILES SHOWN REFLECT THE DESIGN AT THE D2 SUBMITTAL. NO UPDATES HAVE BEEN MADE TO THE PIPE PROFILES FOR THE D5 SUBMITTAL.

FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER M.76

40TH ST. RAMP C

I-480 RAMP H

I-480

I-480 RAMP C

40TH ST. RAMP B

DODGE RIVERSIDE DR.

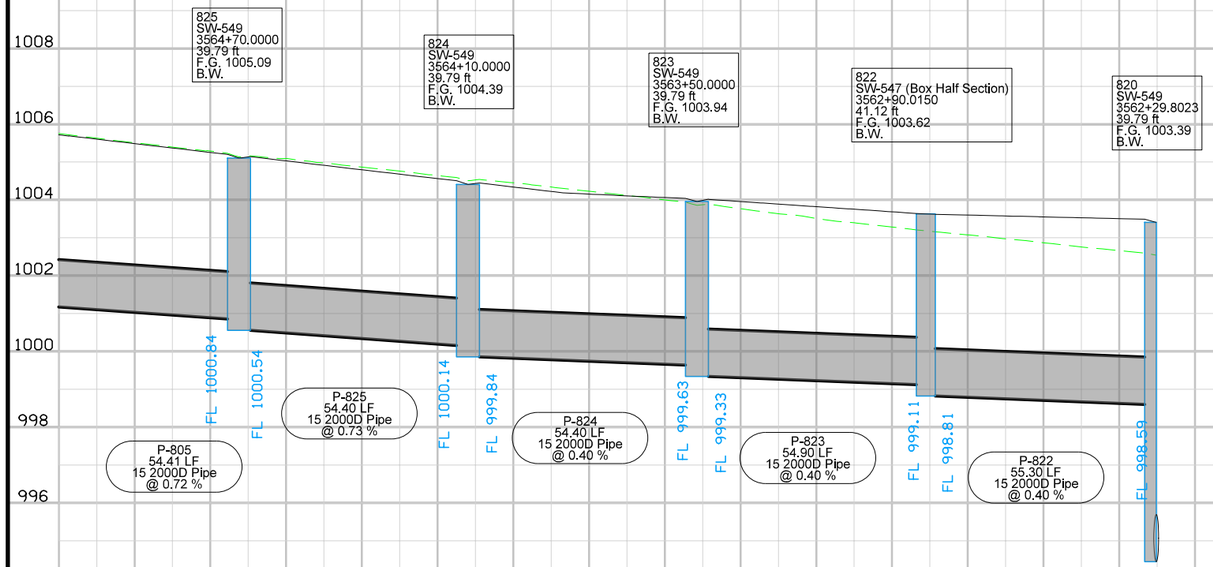
KANE TWP
T-75 R-44W
SEC.33

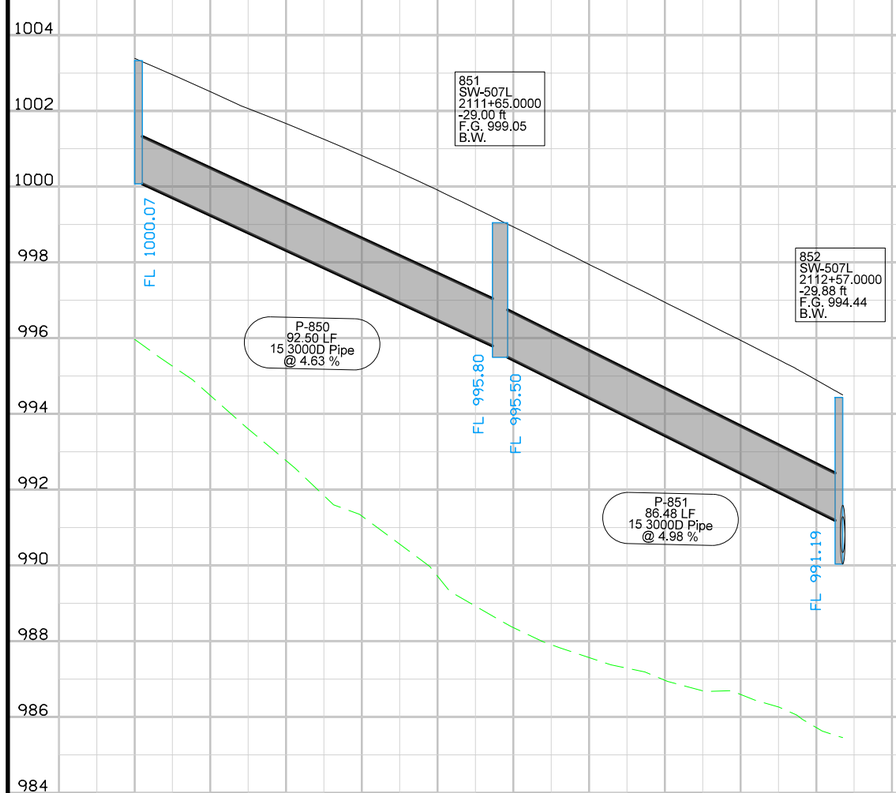
0 FEET 20

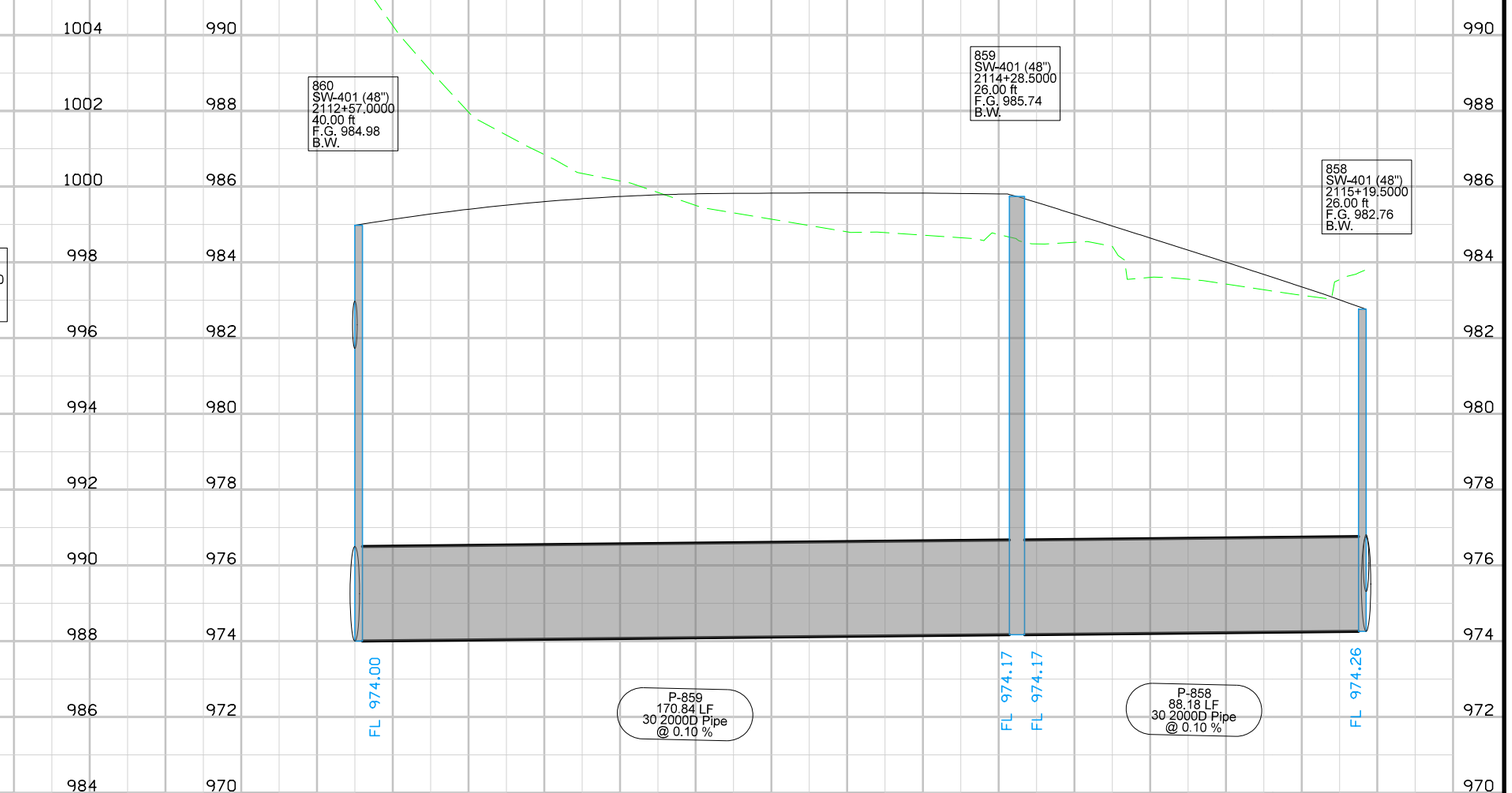
FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER M.77

10:26:30 AM 10/26/2017 mplummer pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\78029166-M.sht

PIPE PROFILES SHOWN REFLECT THE DESIGN AT THE D2 SUBMITTAL. NO UPDATES HAVE BEEN MADE TO THE PIPE PROFILES FOR THE D5 SUBMITTAL.







FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER M.78

PIPE PROFILES SHOWN REFLECT THE DESIGN AT THE D2 SUBMITTAL. NO UPDATES HAVE BEEN MADE TO THE PIPE PROFILES FOR THE D5 SUBMITTAL.

820
SW-549
3562+29.8023
39.79 ft
F.G. 1003.39
B.W.

FL 994.43

P-820
109.33 LF
15 2000D Pipe
@ 3.74 %

852
SW-507L
2112+57.0000
-29.88 ft
F.G. 994.44
B.W.

FL 990.34

FL 990.04

P-852
67.88 LF
15 3000D Pipe
@ 12.25 %

860
SW-401 (48")
2112+57.0000
40.00 ft
F.G. 984.98
B.W.

FL 981.73

860a
DR-201 (21")
2112+57.0000
73.00 ft
F.G. 973.98
B.W.

FL 974.00

FL 973.98

P-860
24.67 LF
30 2000D Pipe
@ 0.10 %

853
SW-507L
2113+45.0000
-35.75 ft
F.G. 989.82
B.W.

FL 986.57

P-853
59.86 LF
15 3000D Pipe
@ 5.28 %

854
SW-507L
2114+10.0000
-40.08 ft
F.G. 986.66
B.W.

FL 983.41

FL 983.11

P-854
54.85 LF
15 3000D Pipe
@ 3.59 %

855
SW-507L
2114+70.0000
-41.00 ft
F.G. 984.39
B.W.

FL 981.14

FL 980.84

P-855
44.94 LF
15 3000D Pipe
@ 2.37 %

856
SW-507L
2115+20.0000
-41.00 ft
F.G. 983.03
B.W.

FL 979.78

FL 979.48

P-856
22.92 LF
15 3000D Pipe
@ 0.49 %

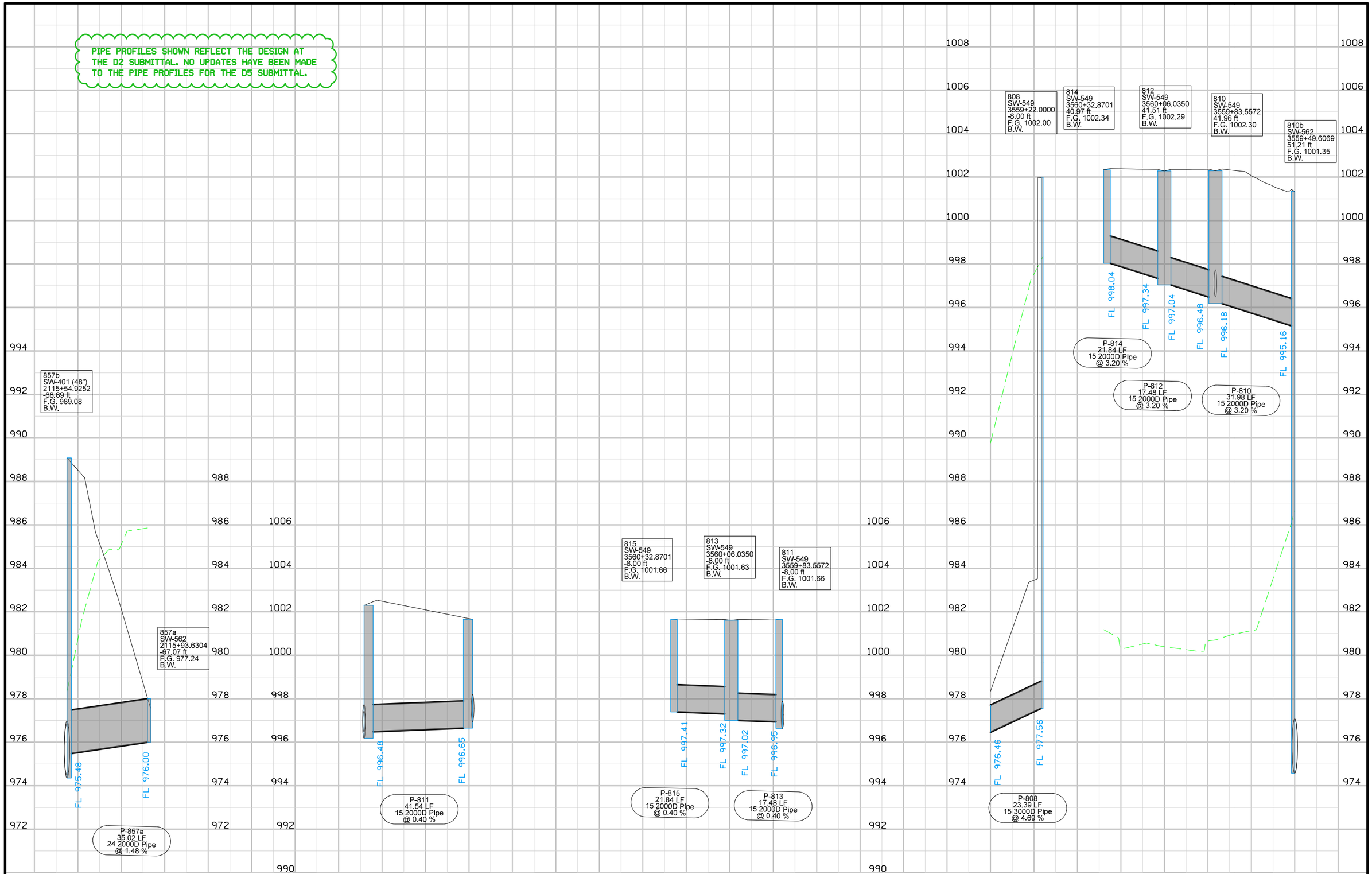
857
SW-507L
2115+47.5000
-41.00 ft
F.G. 982.62
B.W.

FL 979.37

FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER M.79

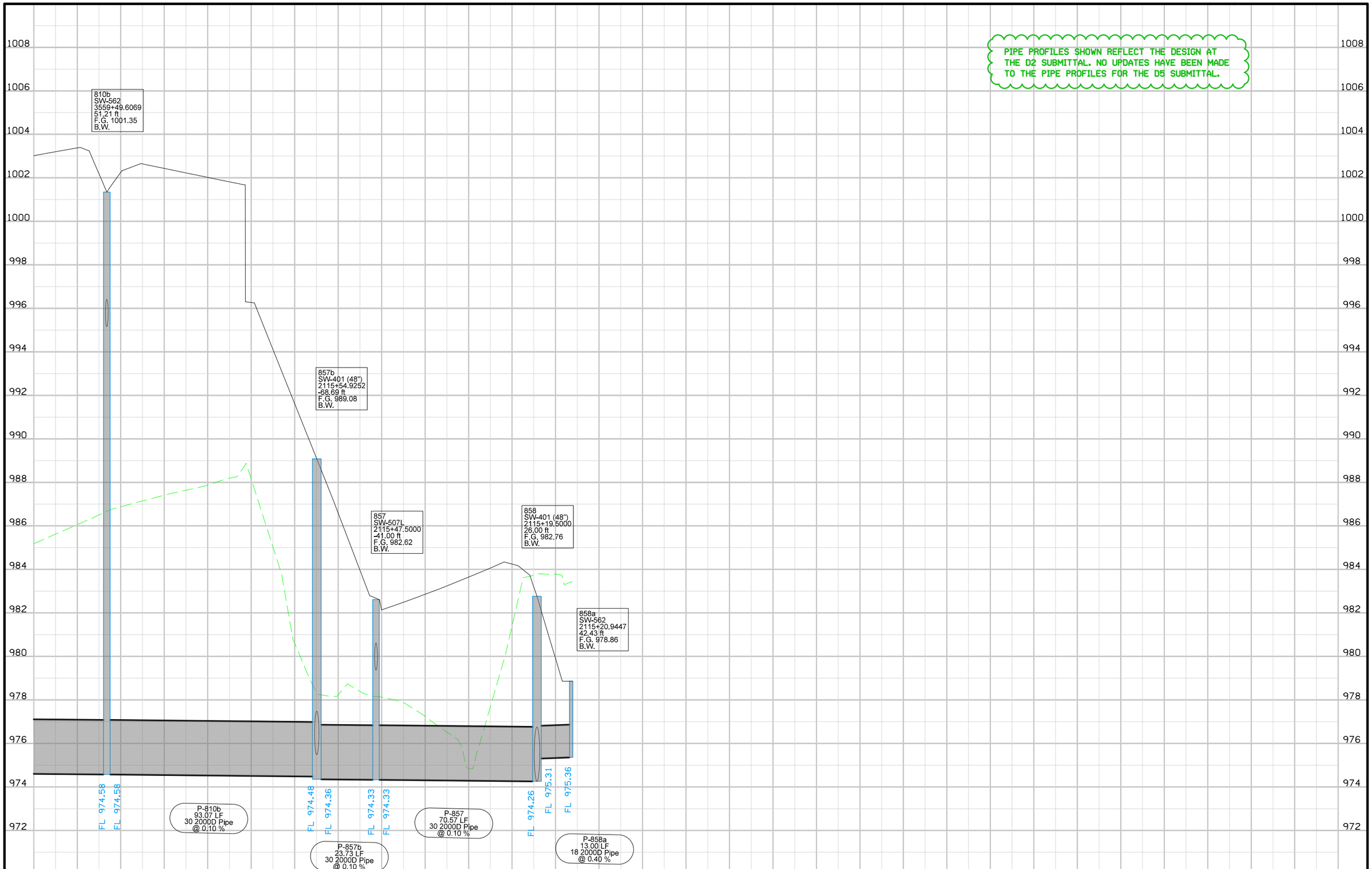
10:26:34 AM 10/26/2017 mplummer pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\78029166-M.sht

PIPE PROFILES SHOWN REFLECT THE DESIGN AT THE D2 SUBMITTAL. NO UPDATES HAVE BEEN MADE TO THE PIPE PROFILES FOR THE D5 SUBMITTAL.



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER M.80

PIPE PROFILES SHOWN REFLECT THE DESIGN AT THE D2 SUBMITTAL. NO UPDATES HAVE BEEN MADE TO THE PIPE PROFILES FOR THE D5 SUBMITTAL.



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER M.81

KANE TWP
T-75 R-44W
SEC.28

KANE TWP
T-75 R-44W
SEC.33

3114
3115
3116
3117
3118
3119

830
830a
831
832
810c
810d
810e

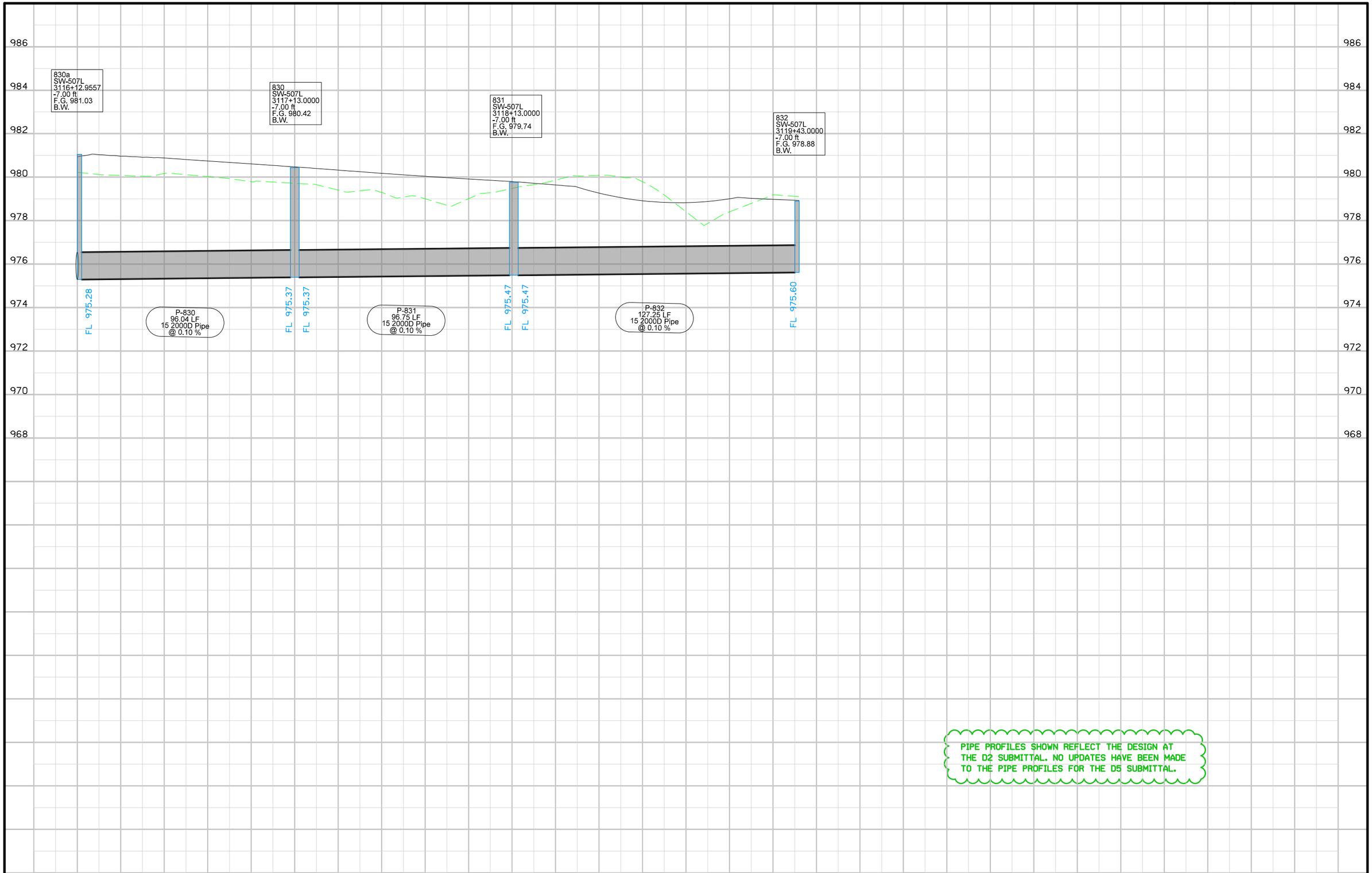
40TH ST. RAMP C

I-480 RAMP H

0 20
FEET

FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER M.82

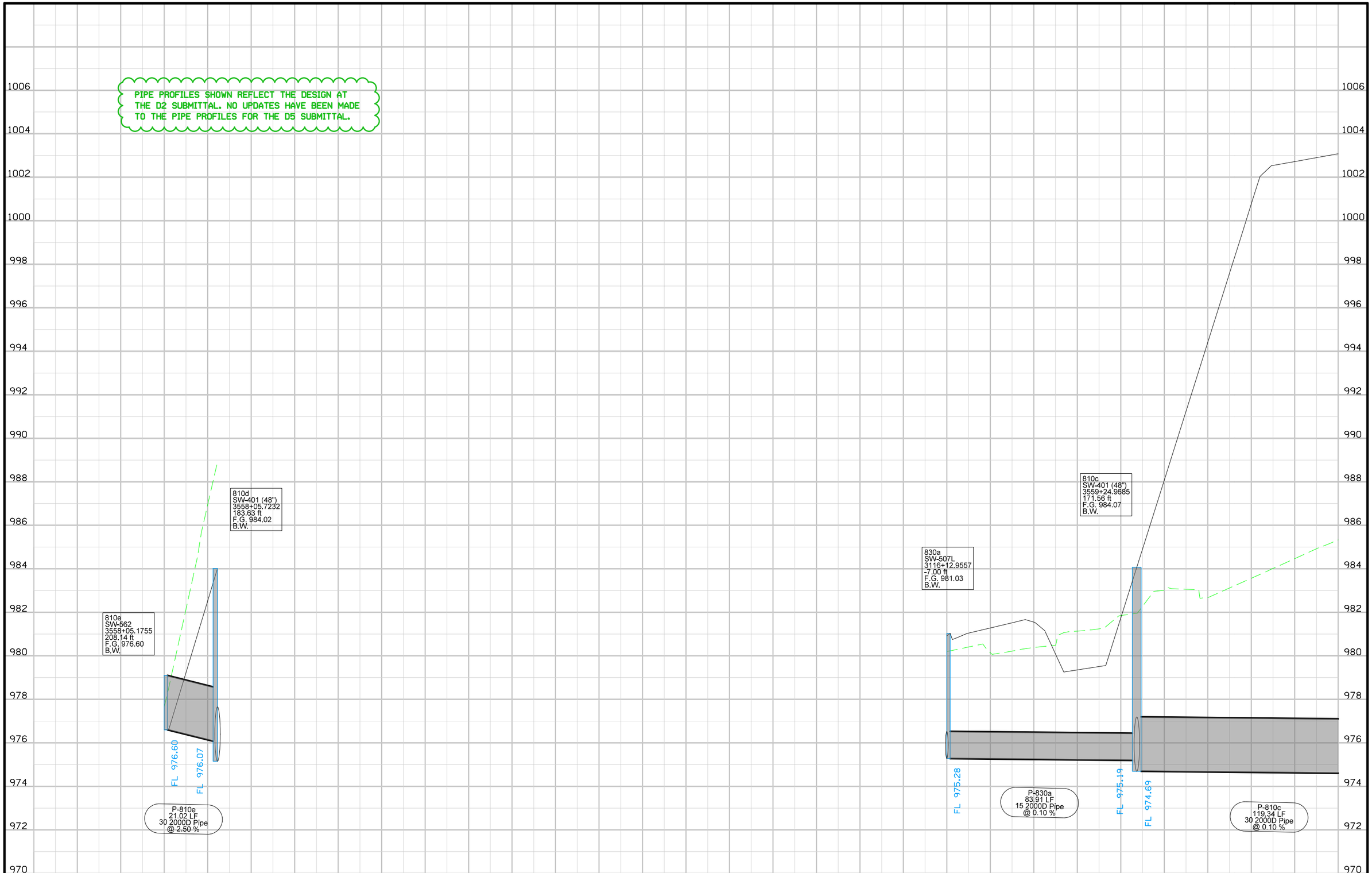
10:26:39 AM 10/26/2017 mplummer pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\78029166-M.sht



PIPE PROFILES SHOWN REFLECT THE DESIGN AT THE D2 SUBMITTAL. NO UPDATES HAVE BEEN MADE TO THE PIPE PROFILES FOR THE D5 SUBMITTAL.

FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER M.83

PIPE PROFILES SHOWN REFLECT THE DESIGN AT THE D2 SUBMITTAL. NO UPDATES HAVE BEEN MADE TO THE PIPE PROFILES FOR THE D5 SUBMITTAL.



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER M.84

10:26:42 AM 10/26/2017 mplummer pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\78029166-M.sht

I-480 RAMP H

I-480 RAMP C

40TH ST. RAMP B

EB W. BROADWAY

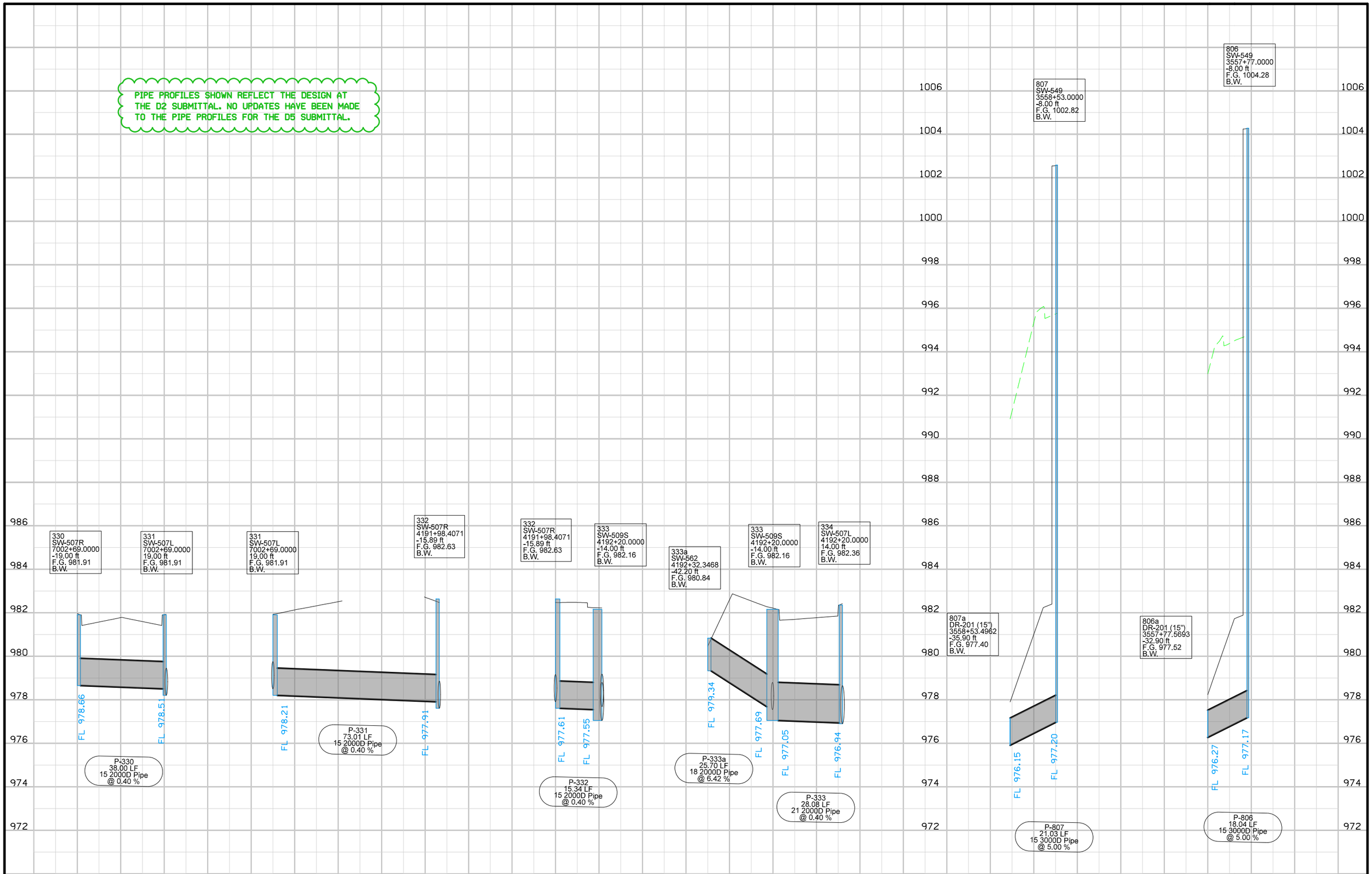
40TH ST.

0 FEET 20

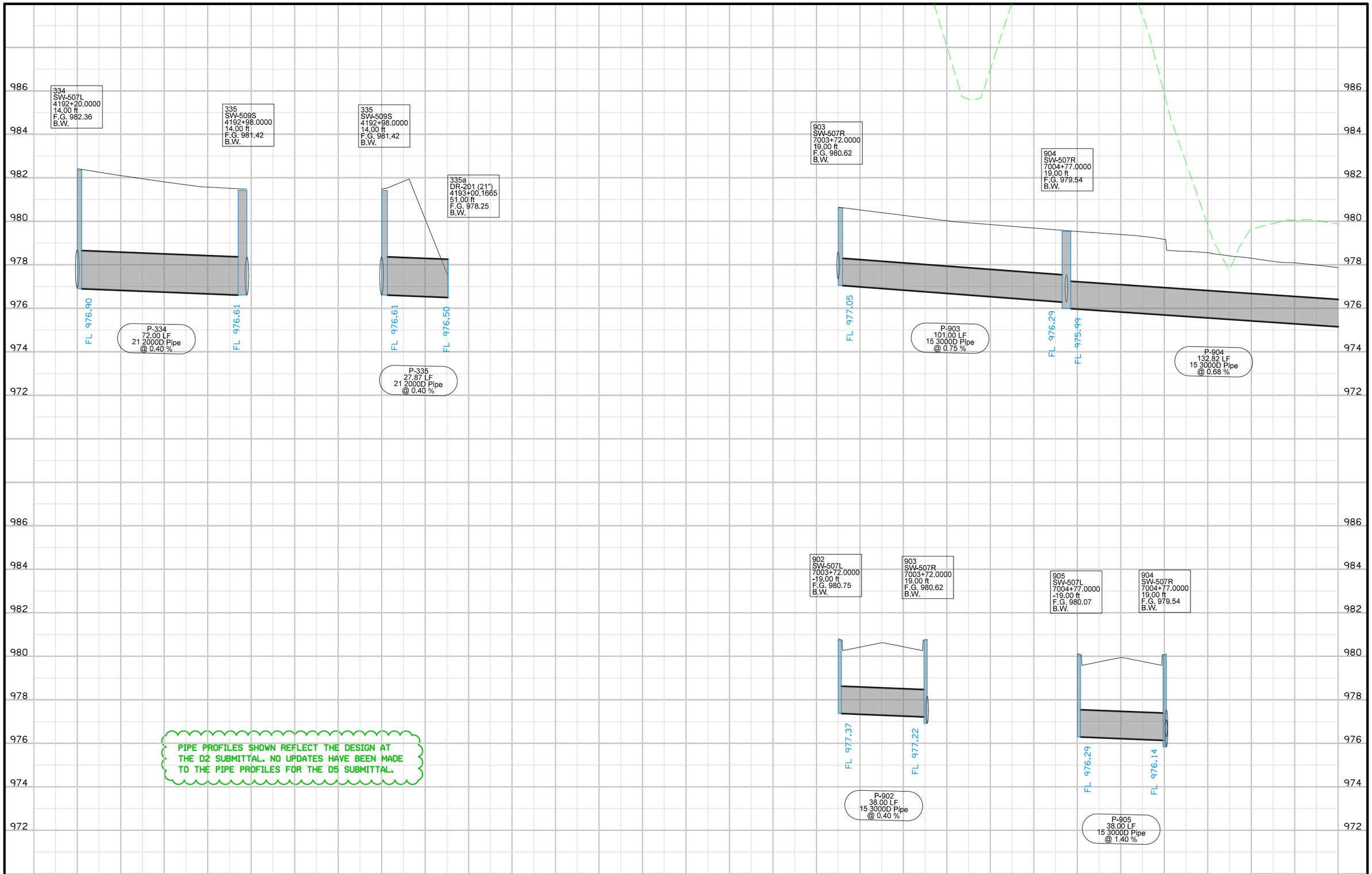
FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER M.85

10:26:44 AM 10/26/2017 mplummer pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\78029166-M.sht

PIPE PROFILES SHOWN REFLECT THE DESIGN AT THE D2 SUBMITTAL. NO UPDATES HAVE BEEN MADE TO THE PIPE PROFILES FOR THE D5 SUBMITTAL.



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER M.86



PIPE PROFILES SHOWN REFLECT THE DESIGN AT THE D2 SUBMITTAL. NO UPDATES HAVE BEEN MADE TO THE PIPE PROFILES FOR THE D5 SUBMITTAL.

FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER M.87

KANE TWP
T-75 R-44W
SEC.33

41ST ST.

40TH ST. RAMP C

WB W BROADWAY

I-480 RAMP A

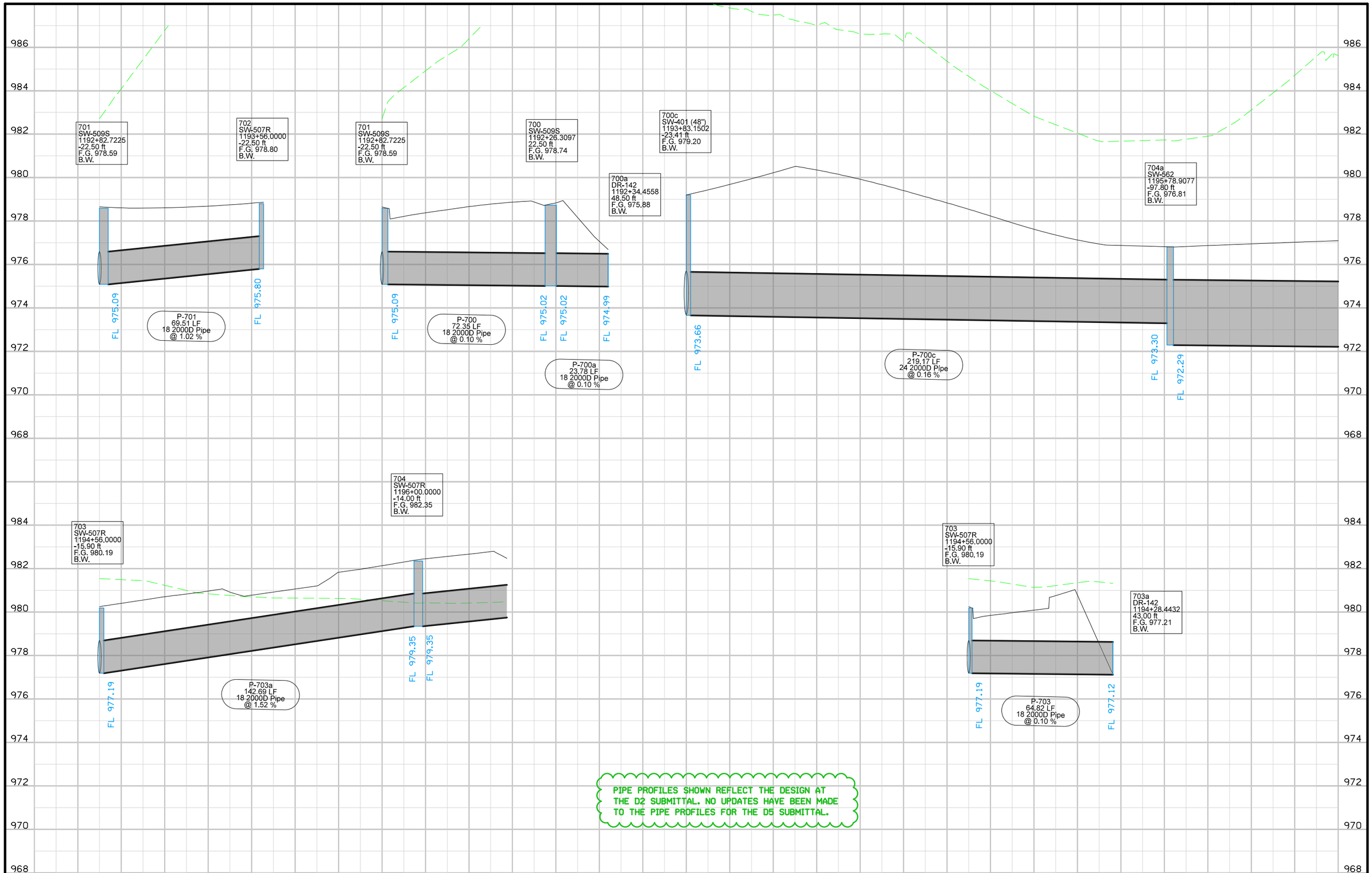
7008
7007
7006
7005
7004

1193
1194
1195
1196

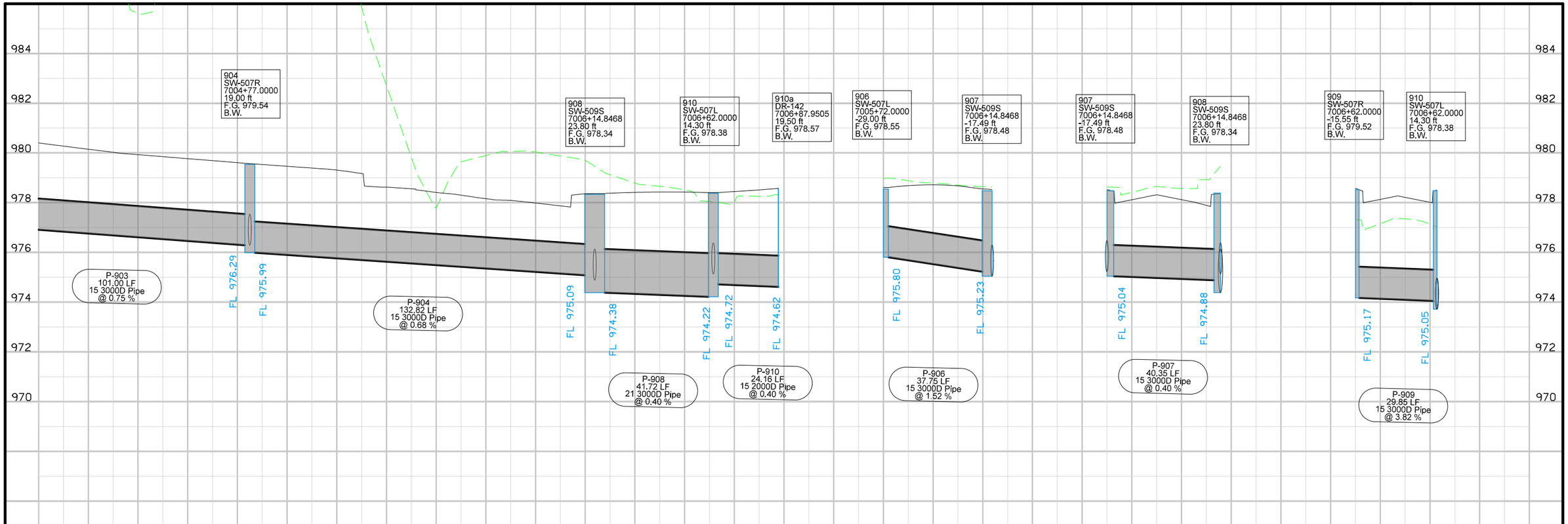
0 FEET 20

FILE NO.	ENGLISH	DESIGN TEAM Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER IM-029-3(166)54--13-78	SHEET NUMBER M.88

10:26:50 AM 10/26/2017 mplummer pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\78029166-M.sht



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER M.89



PIPE PROFILES SHOWN REFLECT THE DESIGN AT THE D2 SUBMITTAL. NO UPDATES HAVE BEEN MADE TO THE PIPE PROFILES FOR THE D5 SUBMITTAL.

FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER M.90

I-480 RAMP A

WB W. BROADWAY

I-480 RAMP H

I-480 RAMP F

SB FRONTAGE RD.

KANE TWP
T-75 R-44W
SEC.28

704

705

8556

8555

8554

8553

8552

8551

EB W BROADWAY

713

713a

714

336

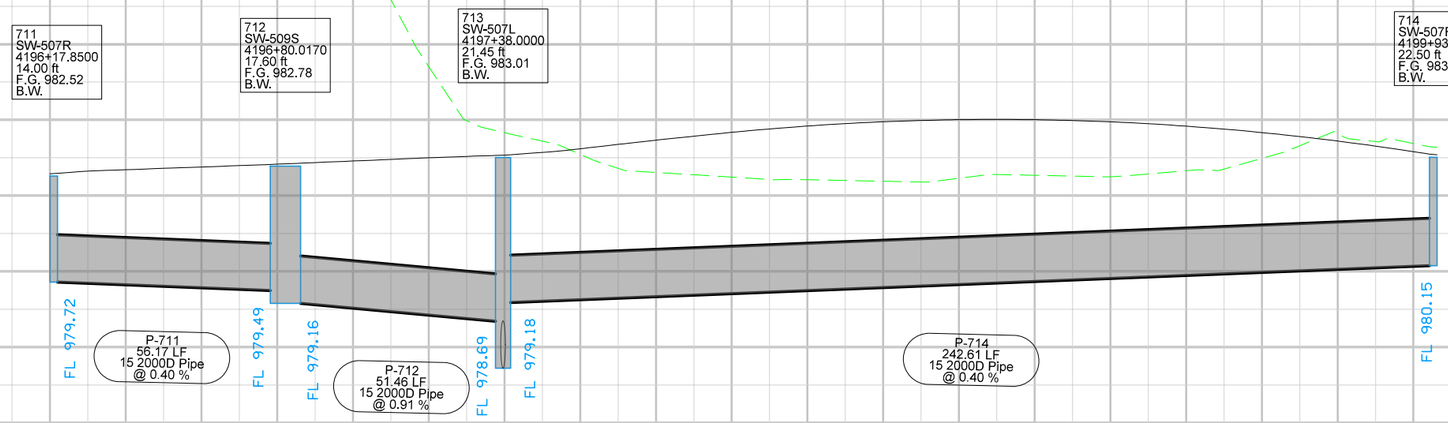
I-480 RAMP C

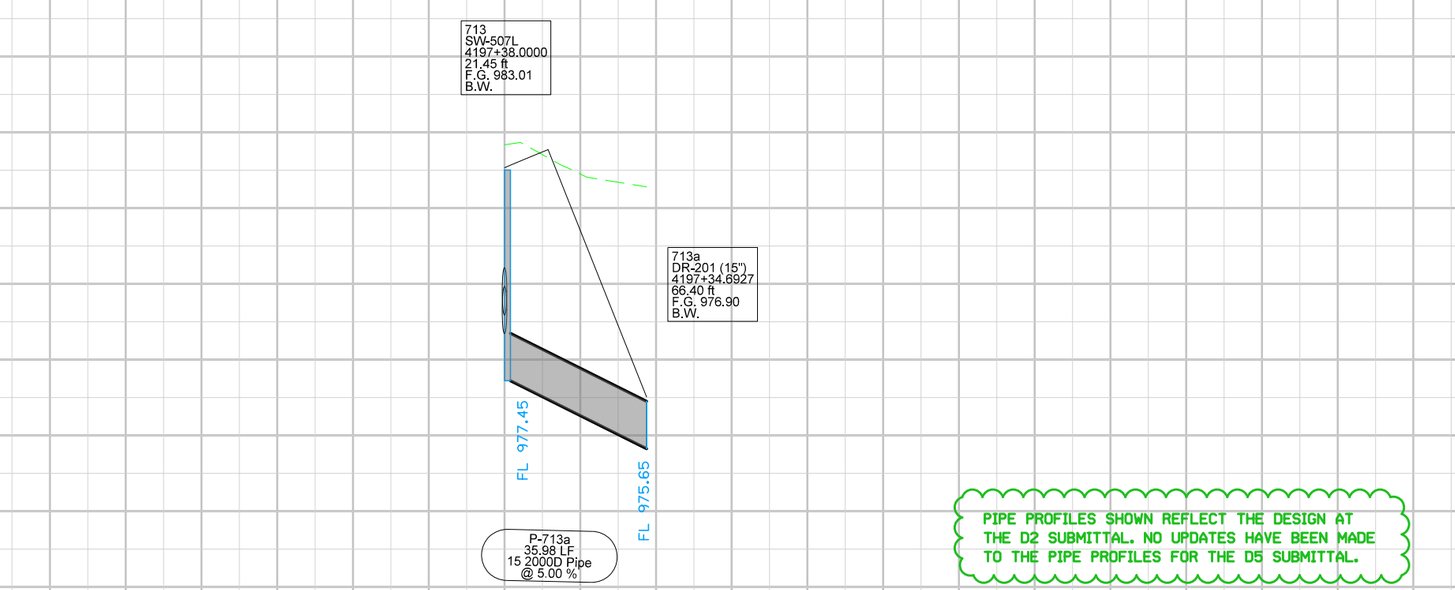
KANE TWP
T-75 R-44W
SEC.33

0 20
FEET

FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER M.91

10:26:57 AM 10/26/2017 mplummer pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\78029166-M.sht





FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER M.92

I-480 RAMP C

40TH ST. RAMP B

40TH ST.

EB W. BROADWAY

DODGE RIVERSIDE DR

4003

4004

4005

4006

4007

4008

290

291

291a

363a

390

391

Ex Str

360

361

362

363

KANE TWP
T-75 R-44W
SEC.33

BLDG.

BLDG.

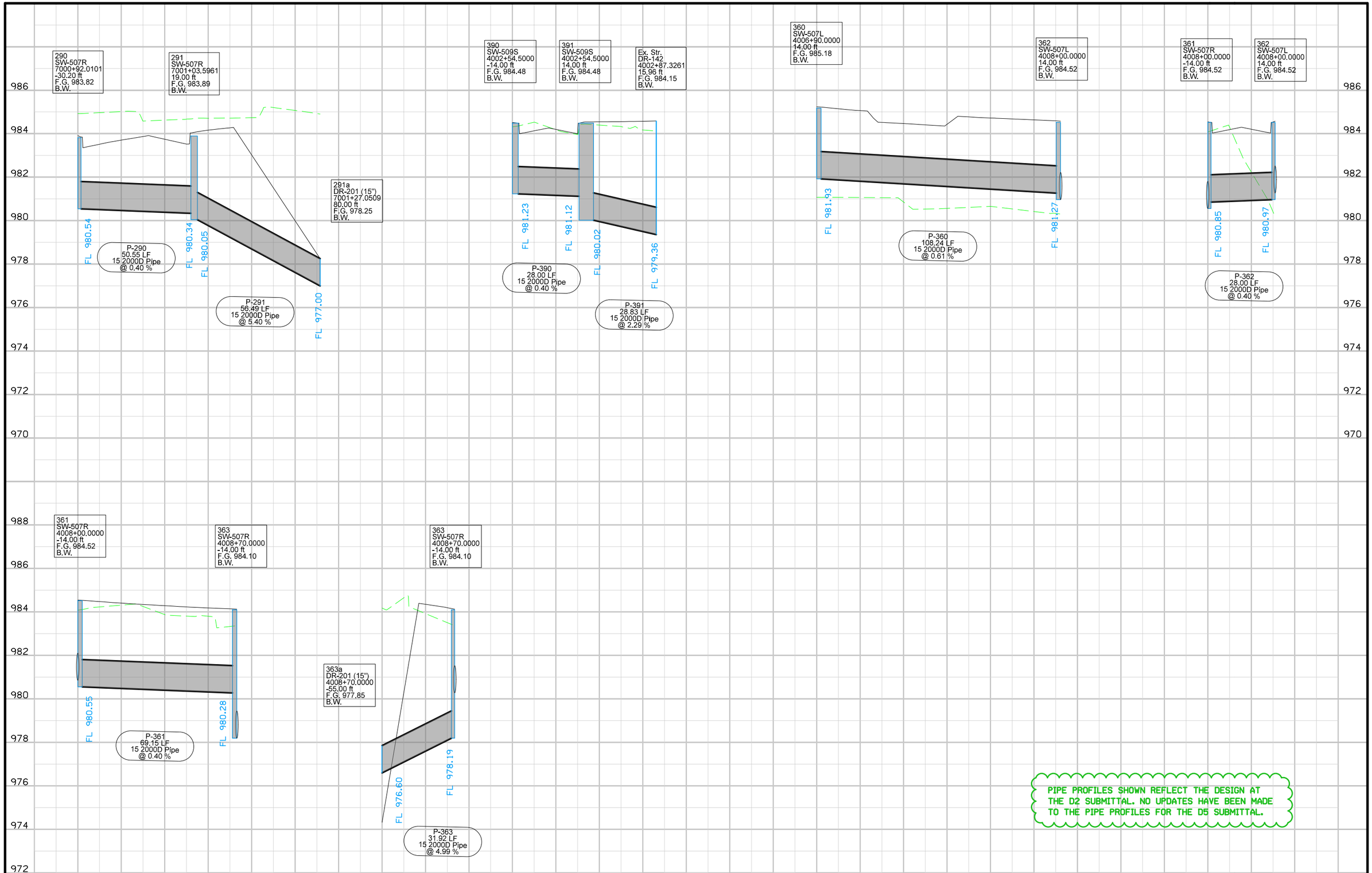
BLDG.

BLDG.

0 FEET 20

FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER M.93

10:27:01 AM 10/26/2017 mplummer pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\7802916 6-M.sht



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER M.94

I-480 RAMP C

DODGE RIVERSIDE DR

4010 4011 4012 4013 4014 4015

365 366 367 368 369 370 371 372 373 374 375 377 377a

KANE TWP
T-75 R-44W
SEC.33

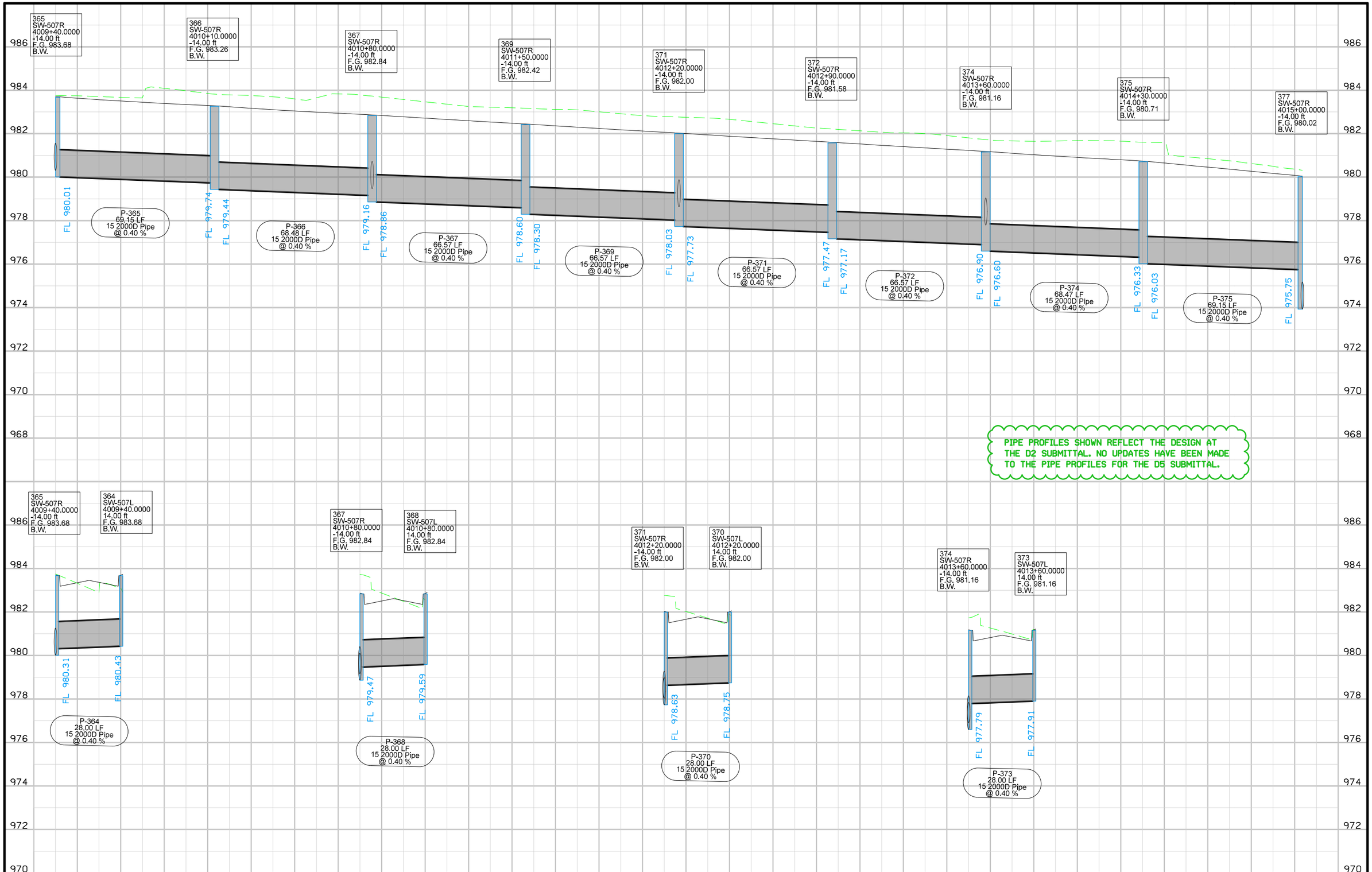
37TH ST.

BLDG.

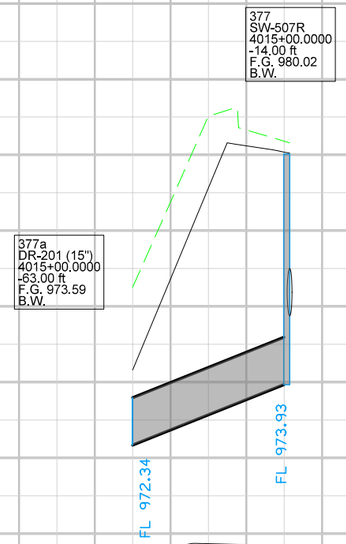
0 20
FEET

FILE NO.	ENGLISH	DESIGN TEAM Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER IM-029-3(166)54--13-78	SHEET NUMBER M.95

10:27:04 AM 10/26/2017 mplummer pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\78029166-M.sht



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER M.96



PIPE PROFILES SHOWN REFLECT THE DESIGN AT THE D2 SUBMITTAL. NO UPDATES HAVE BEEN MADE TO THE PIPE PROFILES FOR THE D5 SUBMITTAL.

FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER M.97

I-480 RAMP C

SB FRONTAGE RD.

DODGE RIVERSIDE DR

2ND AVE.

2ND AVE.

KANE TWP
T-75 R-44W
SEC.33

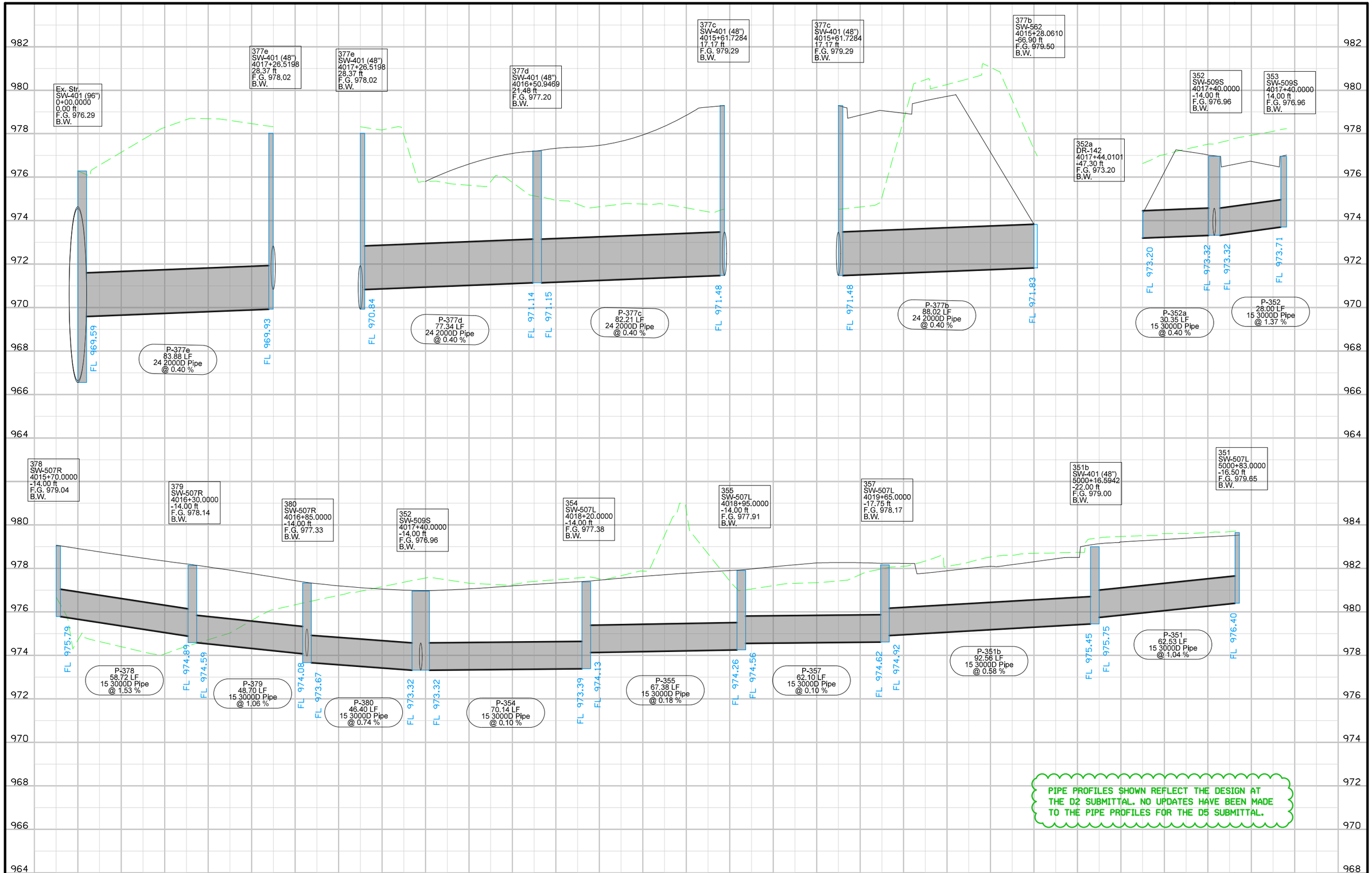
4016
4017
4018
4019
4020

377b
377c
377d
377e
378
379
380
381
352
352a
353
354
354a
355
356
356b
357
358
358a
350
351
351b
165
Ex

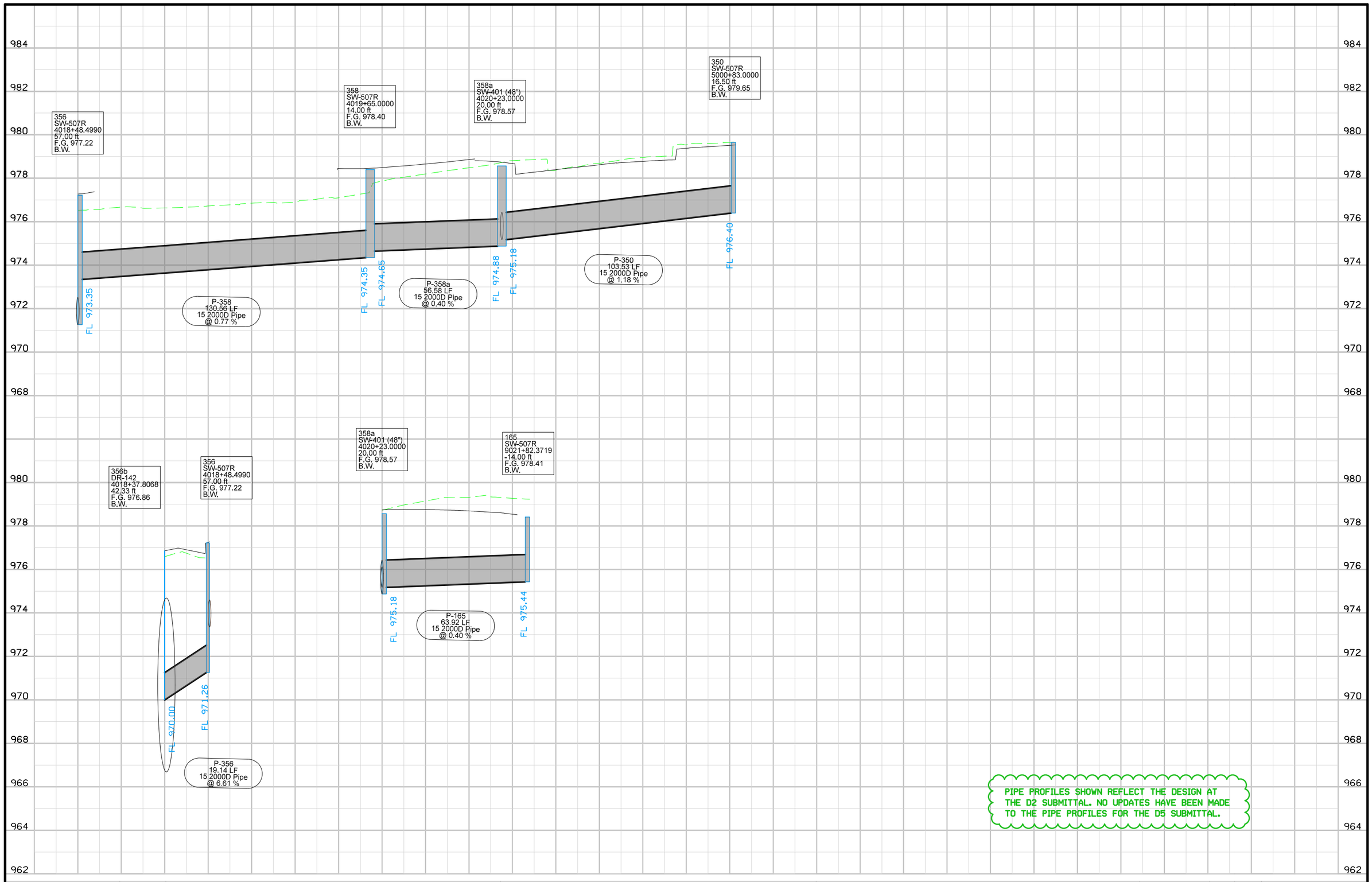
0 20
FEET

FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER M.98	

10:27:10 AM 10/26/2017 mplummer pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\78029166-M.sht



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER M.99



PIPE PROFILES SHOWN REFLECT THE DESIGN AT THE D2 SUBMITTAL. NO UPDATES HAVE BEEN MADE TO THE PIPE PROFILES FOR THE D5 SUBMITTAL.

FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER M.100

10:27:13 AM 10/26/2017 mplummer pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\78029166-M.sht

NB FRONTAGE RD.

W BROADWAY

KANE TWP
T-75N R-44W
SEC. 33

207 208 209 210 211 212 213

688 689 691 692 693 694 695 696 697 698

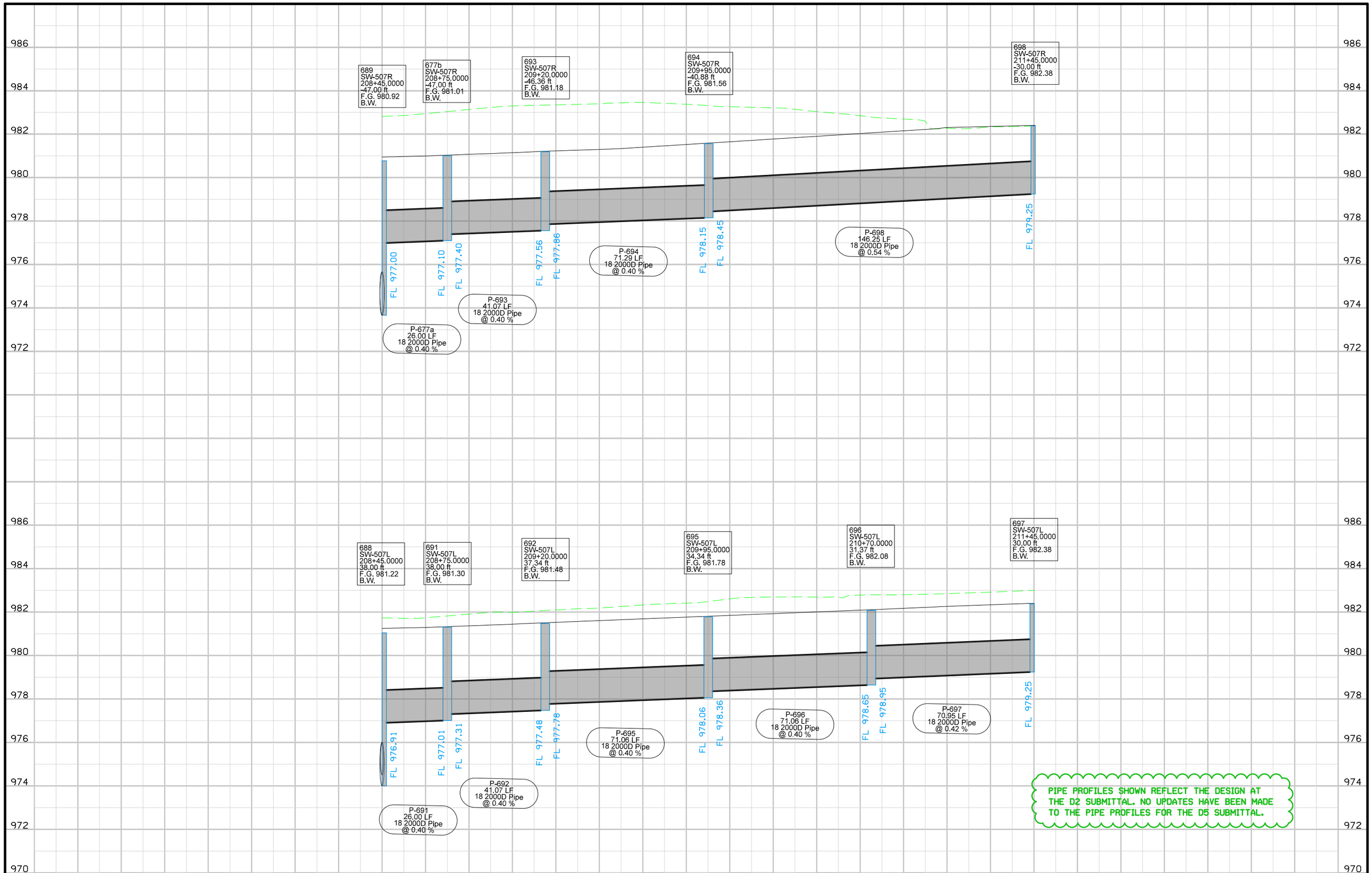
677b

N

0 20
FEET

FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER M.101

10:27:32 AM 10/26/2017 mplummer pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\78029166-M.sht



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER M.102

TRAFFIC SIGNAL GENERAL NOTES

SIGNAL LEGEND

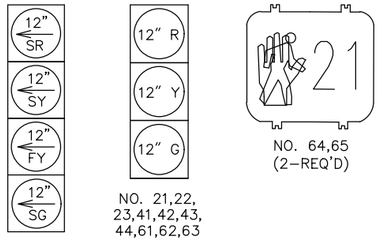
PROPOSED

- CABINET AND CONTROLLER
- POWER SOURCE
- METER
- 1 — TRAFFIC SIGNAL POLE, FOOTING SYMBOL, AND IDENTIFYING NUMBER
- 3 — PEDESTAL POLE, FOOTING SYMBOL, AND IDENTIFYING NUMBER
- 3 — TEMPORARY SIGNAL POLE AND IDENTIFYING NUMBER
- UTILITY POLE
- 81 — TRAFFIC SIGNAL HEAD WITH BACKPLATE SYMBOL AND IDENTIFYING NUMBER
- 23 — TRAFFIC SIGNAL HEAD SYMBOL AND IDENTIFYING NUMBER
- 25 — PEDESTRIAN HEAD SYMBOL AND IDENTIFYING NUMBER
- 201 — PEDESTRIAN PUSHBUTTON IDENTIFYING NUMBER
- C — MAST ARM MOUNTED SIGN SYMBOL AND IDENTIFYING NUMBER
- VIDEO DETECTION CAMERA
- DOME STYLE PAN/TILT/ZOOM CCTV CAMERA
- EMERGENCY VEHICLE PREEMPTION
- LUMINAIRE
- 4 — 24" HANDHOLE SYMBOL AND IDENTIFYING NUMBER – TYPE I
- 1 — "TUB" HANDHOLE SYMBOL AND IDENTIFYING NUMBER – TYPE 2 OR 3
- TRENCHED SIGNAL CONDUIT
- PUSHED SIGNAL CONDUIT
- SIGNAL INTERCONNECT CONDUIT

ABBREVIATIONS

SIG	SIGNAL HEAD CABLE
PED HD	PEDESTRIAN HEAD CABLE
PED PB	PEDESTRIAN PUSHBUTTON CABLE
CNTRL	CONTROLLER
LUM	LUMINAIRE
N	NEUTRAL
LN1	POWER – LINE 1
LN2	POWER – LINE 2
GR	GROUND WIRE 1c #6
TR	TRACER WIRE 1c #10
PR	PULL ROPE
Y1	FUSED WYE CONNECTOR FOR STREET LIGHTING
Y2	NON–FUSED WYE CONNECTOR FOR STREET LIGHTING
Y3	NON–FUSED WYE CONNECTOR FOR STREET LIGHTING
L1	FUSED IN–LINE CONNECTOR FOR STREET LIGHTING
L2	NON–FUSED IN–LINE CONNECTOR FOR STREET LIGHTING
DET	SHIELDED LOOP DETECTOR LEAD–IN
LOOP	DETECTOR LOOP WIRE IN TUBING
HH	HANDHOLE
EVP	EMERGENCY VEHICLE PREEMPT DETECTOR CABLE
FY	FLASHING YELLOW
SY	STEADY YELLOW
FO	FIBER OPTIC CABLE
SM	SINGLE MODE

TRAFFIC SIGNAL FACES



NO. 11
(1–REQ'D)

NO. 21,22,
23,41,42,43,
44,61,62,63
(10–REQ'D)

NO. 64,65
(2–REQ'D)

ALL SIGNAL FACES SHALL BE LED.

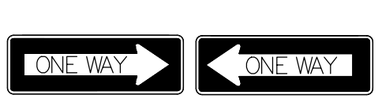
STREET NAME SIGNS



18"X VARIES
(2–REQ'D)



18"X VARIES
(1–REQ'D)



C R6–1R 12"X36" (1–REQ'D)
E 18"X54" (1–REQ'D)

D R6–1L 12"X36" (1–REQ'D)
F 18"X54" (1–REQ'D)



R10–27 MODIFIED
30"X36"
(1–REQ'D)



R3–5L
30"X36"
(1–REQ'D)



R3–6R
30"X36"
(1–REQ'D)



R3–5R
30"X36"
(1–REQ'D)

** NOTE:
THE CONTRACTOR IS TO PROVIDE
ALL TRAFFIC SIGNAL RELATED SIGN PANELS.
CONTRACTOR TO SUPPLY MOUNTING
BRACKETS AND INSTALL SIGNS.

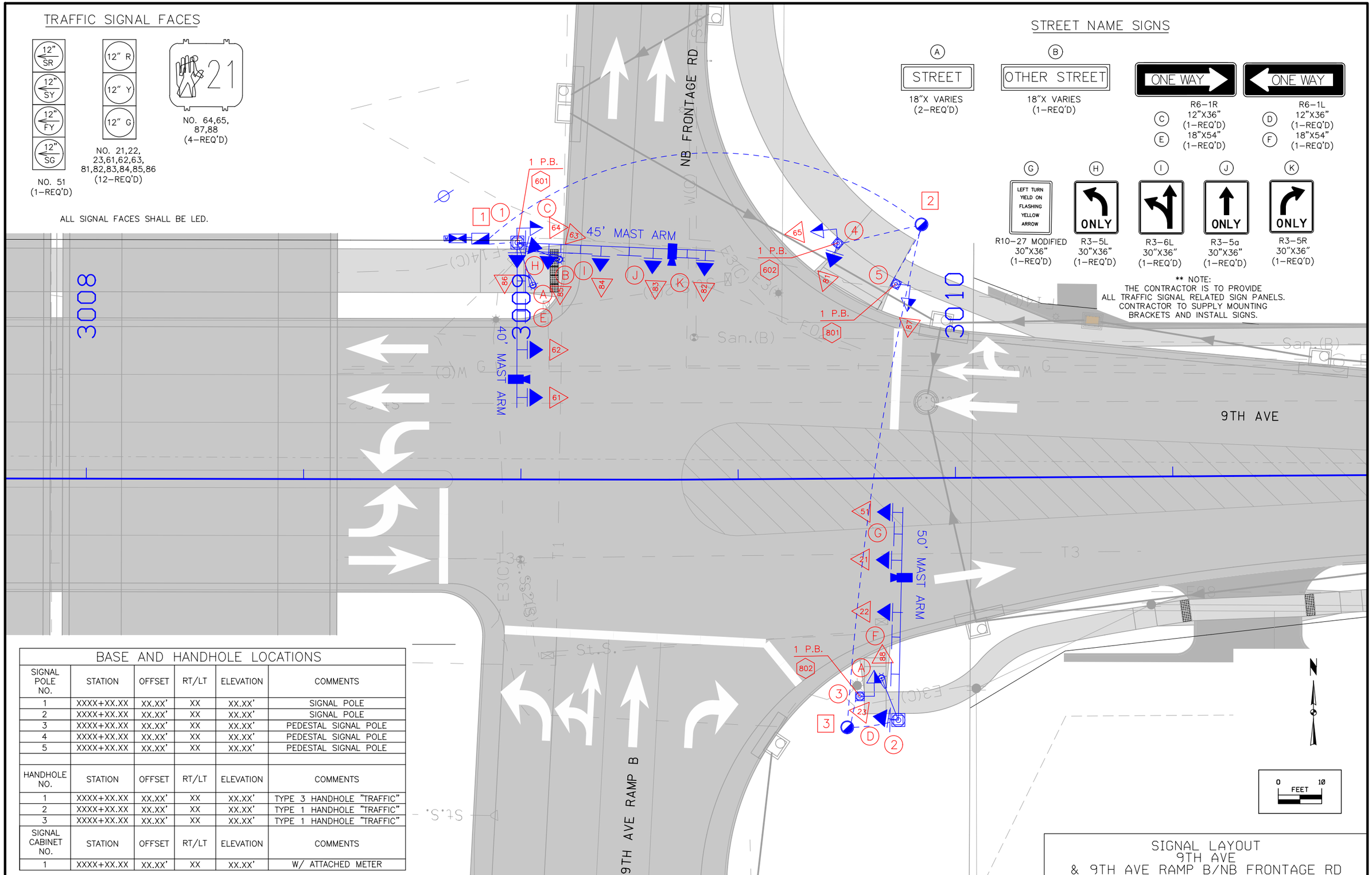
BASE AND HANDHOLE LOCATIONS

SIGNAL POLE NO.	STATION	OFFSET	RT/LT	ELEVATION	COMMENTS
1	XXXX+XX.XX	XX.XX'	XX	XX.XX'	SIGNAL POLE
2	XXXX+XX.XX	XX.XX'	XX	XX.XX'	SIGNAL POLE
3	XXXX+XX.XX	XX.XX'	XX	XX.XX'	PEDESTAL SIGNAL POLE
4	XXXX+XX.XX	XX.XX'	XX	XX.XX'	PEDESTAL SIGNAL POLE
HANDHOLE NO.	STATION	OFFSET	RT/LT	ELEVATION	COMMENTS
1	XXXX+XX.XX	XX.XX'	XX	XX.XX'	TYPE 3 HANDHOLE "TRAFFIC"
2	XXXX+XX.XX	XX.XX'	XX	XX.XX'	TYPE 1 HANDHOLE "TRAFFIC"
3	XXXX+XX.XX	XX.XX'	XX	XX.XX'	TYPE 1 HANDHOLE "TRAFFIC"
SIGNAL CABINET NO.	STATION	OFFSET	RT/LT	ELEVATION	COMMENTS
1	XXXX+XX.XX	XX.XX'	XX	XX.XX'	W/ ATTACHED METER

SIGNAL LAYOUT
9TH AVE &
9TH AVE RAMP C/SB FRONTAGE RD

FILE NO.	ENGLISH	DESIGN TEAM Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER IM-029-3(166)54--13-78	SHEET NUMBER N.2

11:31:30 AM 10/26/2017 jlastov j:\projectwise\jlastov\hntb\d0144711\78029166-HRG-N10.sht.dgn



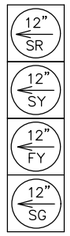
BASE AND HANDHOLE LOCATIONS					
SIGNAL POLE NO.	STATION	OFFSET	RT/LT	ELEVATION	COMMENTS
1	XXXX+XX.XX	XX.XX'	XX	XX.XX'	SIGNAL POLE
2	XXXX+XX.XX	XX.XX'	XX	XX.XX'	SIGNAL POLE
3	XXXX+XX.XX	XX.XX'	XX	XX.XX'	PEDESTAL SIGNAL POLE
4	XXXX+XX.XX	XX.XX'	XX	XX.XX'	PEDESTAL SIGNAL POLE
5	XXXX+XX.XX	XX.XX'	XX	XX.XX'	PEDESTAL SIGNAL POLE
HANDHOLE NO.	STATION	OFFSET	RT/LT	ELEVATION	COMMENTS
1	XXXX+XX.XX	XX.XX'	XX	XX.XX'	TYPE 3 HANDHOLE "TRAFFIC"
2	XXXX+XX.XX	XX.XX'	XX	XX.XX'	TYPE 1 HANDHOLE "TRAFFIC"
3	XXXX+XX.XX	XX.XX'	XX	XX.XX'	TYPE 1 HANDHOLE "TRAFFIC"
SIGNAL CABINET NO.	STATION	OFFSET	RT/LT	ELEVATION	COMMENTS
1	XXXX+XX.XX	XX.XX'	XX	XX.XX'	W/ ATTACHED METER

SIGNAL LAYOUT
9TH AVE
& 9TH AVE RAMP B/NB FRONTAGE RD

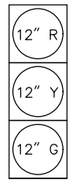
FILE NO.	ENGLISH	DESIGN TEAM Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER IM-029-3(166)54--13-78	SHEET NUMBER N.3

11:31:32 AM 10/26/2017 jlastov j:\projectwise\jlastov\hntb\d0144711\78029166-HRG-N10.sht.dgn

TRAFFIC SIGNAL FACES



NO. 11,12
(2–REQ'D)



NO. 21,22,
23,24,25,26,41,
42,43,44,45,46,
47,48,61,62,63
(17–REQ'D)



NO. 491,492,
81,82
(4–REQ'D)

ALL SIGNAL FACES SHALL BE LED.

STREET NAME SIGNS



(A) 18"X VARIES (2–REQ'D)



(B) 18"X VARIES (1–REQ'D)



(C) (E) R6–1R 12"X36" (1–REQ'D) 18"X54" (1–REQ'D)



(D) (F) R6–1L 12"X36" (1–REQ'D) 18"X54" (1–REQ'D)



(G) R10–27 MODIFIED 30"X36" (1–REQ'D)



(H) R3–5L 30"X36" (1–REQ'D)



(I) R3–5a 30"X36" (2–REQ'D)



(J) R3–5R 30"X36" (1–REQ'D)

** NOTE:
THE CONTRACTOR IS TO PROVIDE
ALL TRAFFIC SIGNAL RELATED SIGN PANELS.
CONTRACTOR TO SUPPLY MOUNTING
BRACKETS AND INSTALL SIGNS.

BASE AND HANDHOLE LOCATIONS

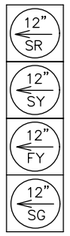
SIGNAL POLE NO.	STATION	OFFSET	RT/LT	ELEVATION	COMMENTS
1	XXXX+XX.XX	XX.XX'	XX	XX.XX'	SIGNAL POLE
2	XXXX+XX.XX	XX.XX'	XX	XX.XX'	SIGNAL POLE
3	XXXX+XX.XX	XX.XX'	XX	XX.XX'	SIGNAL POLE
4	XXXX+XX.XX	XX.XX'	XX	XX.XX'	PEDESTAL SIGNAL POLE
5	XXXX+XX.XX	XX.XX'	XX	XX.XX'	PEDESTAL SIGNAL POLE
6	XXXX+XX.XX	XX.XX'	XX	XX.XX'	PEDESTAL SIGNAL POLE
7	XXXX+XX.XX	XX.XX'	XX	XX.XX'	PEDESTAL SIGNAL POLE
HANDHOLE NO.	STATION	OFFSET	RT/LT	ELEVATION	COMMENTS
1	XXXX+XX.XX	XX.XX'	XX	XX.XX'	TYPE 3 HANDHOLE "TRAFFIC"
2	XXXX+XX.XX	XX.XX'	XX	XX.XX'	TYPE 1 HANDHOLE "TRAFFIC"
3	XXXX+XX.XX	XX.XX'	XX	XX.XX'	TYPE 1 HANDHOLE "TRAFFIC"
4	XXXX+XX.XX	XX.XX'	XX	XX.XX'	TYPE 1 HANDHOLE "TRAFFIC"
SIGNAL CABINET NO.	STATION	OFFSET	RT/LT	ELEVATION	COMMENTS
1	XXXX+XX.XX	XX.XX'	XX	XX.XX'	W/ ATTACHED METER

SIGNAL LAYOUT
W BROADWAY & SB FRONTAGE RD

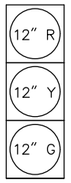
FILE NO.	ENGLISH	DESIGN TEAM Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER IM-029-3(166)54--13-78	SHEET NUMBER N.4

11:31:34 AM 10/26/2017 jlastov j:\projectwise\jlastov\hntb\d0144711\78029166-HRG-N10.sht.dgn

TRAFFIC SIGNAL FACES



NO. 51
(1–REQ'D)



NO. 21,22,
23,61,62,63,64,
81,82,83,84,85,86
(13–REQ'D)



NO. 41,42,
87,88
(4–REQ'D)

ALL SIGNAL FACES SHALL BE LED.

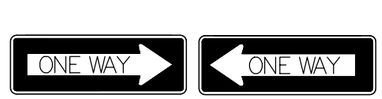
STREET NAME SIGNS



18"X VARIES
(2–REQ'D)



18"X VARIES
(1–REQ'D)



C R6–1R 12"X36" (1–REQ'D)
E 18"X54" (1–REQ'D)

D R6–1L 12"X36" (1–REQ'D)
F 18"X54" (1–REQ'D)



R10–27 MODIFIED
30"X36"
(1–REQ'D)



R3–5L
30"X36"
(1–REQ'D)



R3–5a
30"X36"
(2–REQ'D)



R3–5R
30"X36"
(1–REQ'D)

** NOTE:
THE CONTRACTOR IS TO PROVIDE
ALL TRAFFIC SIGNAL RELATED SIGN PANELS.
CONTRACTOR TO SUPPLY MOUNTING
BRACKETS AND INSTALL SIGNS.

BASE AND HANDHOLE LOCATIONS

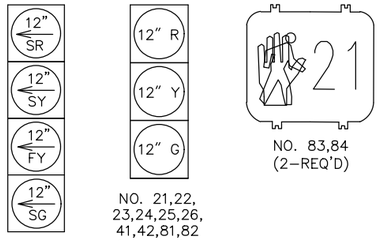
SIGNAL POLE NO.	STATION	OFFSET	RT/LT	ELEVATION	COMMENTS
1	XXXX+XX.XX	XX.XX'	XX	XX.XX'	SIGNAL POLE
2	XXXX+XX.XX	XX.XX'	XX	XX.XX'	SIGNAL POLE
3	XXXX+XX.XX	XX.XX'	XX	XX.XX'	SIGNAL POLE
4	XXXX+XX.XX	XX.XX'	XX	XX.XX'	PEDESTAL SIGNAL POLE
5	XXXX+XX.XX	XX.XX'	XX	XX.XX'	PEDESTAL SIGNAL POLE
6	XXXX+XX.XX	XX.XX'	XX	XX.XX'	PEDESTAL SIGNAL POLE
7	XXXX+XX.XX	XX.XX'	XX	XX.XX'	PEDESTAL SIGNAL POLE
HANDHOLE NO.	STATION	OFFSET	RT/LT	ELEVATION	COMMENTS
1	XXXX+XX.XX	XX.XX'	XX	XX.XX'	TYPE 3 HANDHOLE "TRAFFIC"
2	XXXX+XX.XX	XX.XX'	XX	XX.XX'	TYPE 1 HANDHOLE "TRAFFIC"
3	XXXX+XX.XX	XX.XX'	XX	XX.XX'	TYPE 1 HANDHOLE "TRAFFIC"
4	XXXX+XX.XX	XX.XX'	XX	XX.XX'	TYPE 1 HANDHOLE "TRAFFIC"
SIGNAL CABINET NO.	STATION	OFFSET	RT/LT	ELEVATION	COMMENTS
1	XXXX+XX.XX	XX.XX'	XX	XX.XX'	W/ ATTACHED METER

SIGNAL LAYOUT
W BROADWAY & NB FRONTAGE RD

FILE NO.	ENGLISH	DESIGN TEAM Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER IM-029-3(166)54--13-78	SHEET NUMBER N.5

11:31:36 AM 10/26/2017 jlastov j:\projectwise\jlastov\hntb\d0144711\78029166-HRG-N10.sht.dgn

TRAFFIC SIGNAL FACES



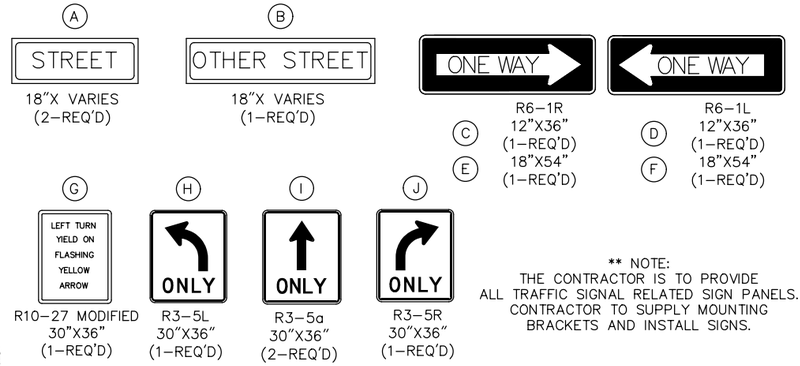
NO. 71
(1–REQ'D)

NO. 21,22,
23,24,25,26,
41,42,81,82
(10–REQ'D)

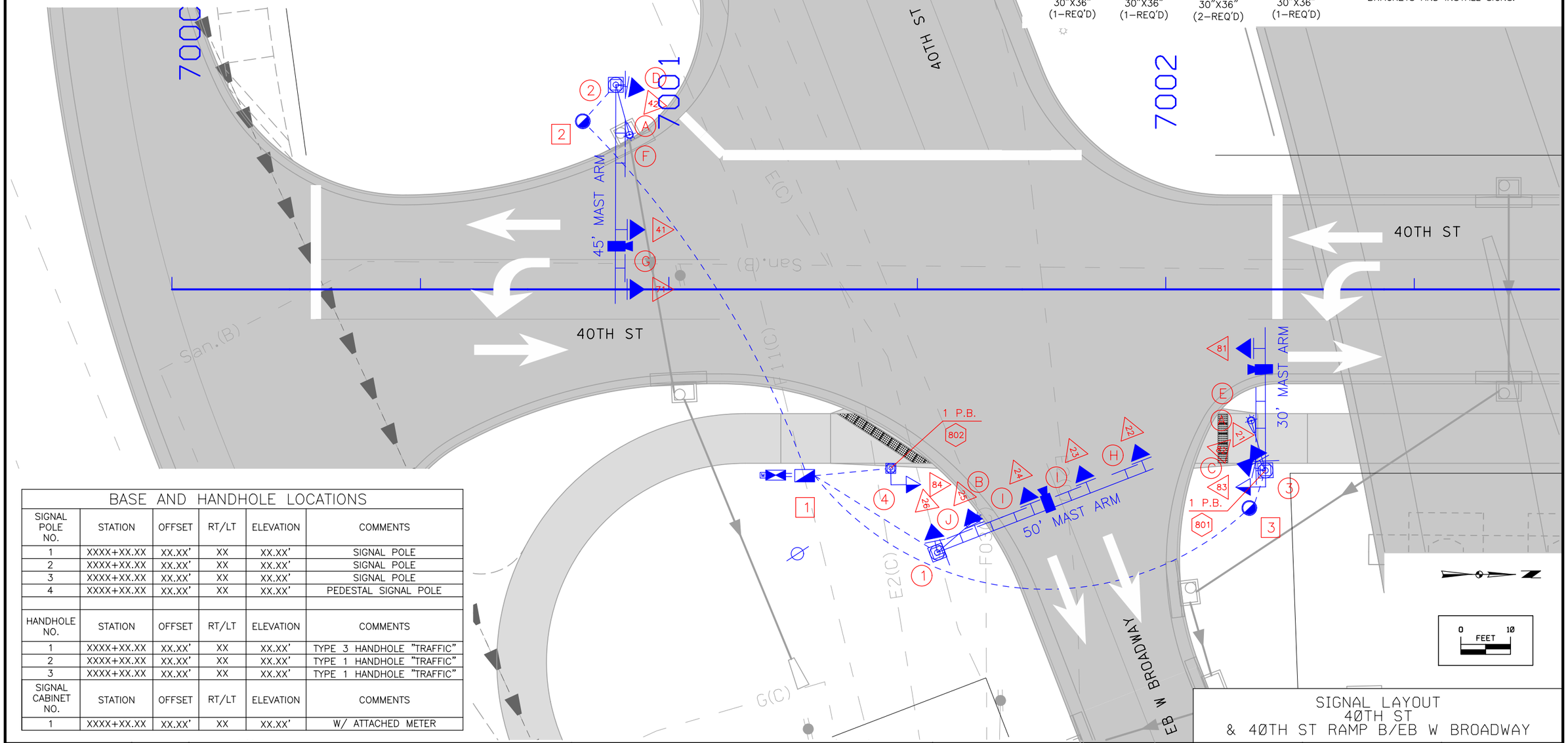
NO. 83,84
(2–REQ'D)

ALL SIGNAL FACES SHALL BE LED.

STREET NAME SIGNS



** NOTE:
THE CONTRACTOR IS TO PROVIDE ALL TRAFFIC SIGNAL RELATED SIGN PANELS. CONTRACTOR TO SUPPLY MOUNTING BRACKETS AND INSTALL SIGNS.



BASE AND HANDHOLE LOCATIONS

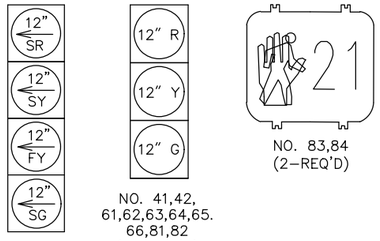
SIGNAL POLE NO.	STATION	OFFSET	RT/LT	ELEVATION	COMMENTS
1	XXXX+XX.XX	XX.XX'	XX	XX.XX'	SIGNAL POLE
2	XXXX+XX.XX	XX.XX'	XX	XX.XX'	SIGNAL POLE
3	XXXX+XX.XX	XX.XX'	XX	XX.XX'	SIGNAL POLE
4	XXXX+XX.XX	XX.XX'	XX	XX.XX'	PEDESTAL SIGNAL POLE
HANDHOLE NO.	STATION	OFFSET	RT/LT	ELEVATION	COMMENTS
1	XXXX+XX.XX	XX.XX'	XX	XX.XX'	TYPE 3 HANDHOLE "TRAFFIC"
2	XXXX+XX.XX	XX.XX'	XX	XX.XX'	TYPE 1 HANDHOLE "TRAFFIC"
3	XXXX+XX.XX	XX.XX'	XX	XX.XX'	TYPE 1 HANDHOLE "TRAFFIC"
SIGNAL CABINET NO.	STATION	OFFSET	RT/LT	ELEVATION	COMMENTS
1	XXXX+XX.XX	XX.XX'	XX	XX.XX'	W/ ATTACHED METER

SIGNAL LAYOUT
40TH ST
& 40TH ST RAMP B/EB W BROADWAY

FILE NO.	ENGLISH	DESIGN TEAM Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER IM-029-3(166)54--13-78	SHEET NUMBER N.6

11:31:38 AM 10/26/2017 jlastov j:\projectwise\jlastov\hntb\d0144711\78029166-HRG-N10.sht.dgn

TRAFFIC SIGNAL FACES



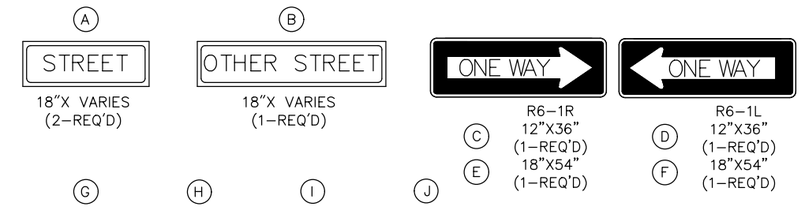
NO. 31
(1–REQ'D)

NO. 41,42,
61,62,63,64,65.
66,81,82
(10–REQ'D)

NO. 83,84
(2–REQ'D)

ALL SIGNAL FACES SHALL BE LED.

STREET NAME SIGNS



** NOTE:
THE CONTRACTOR IS TO PROVIDE ALL TRAFFIC SIGNAL RELATED SIGN PANELS. CONTRACTOR TO SUPPLY MOUNTING BRACKETS AND INSTALL SIGNS.

BASE AND HANDHOLE LOCATIONS

SIGNAL POLE NO.	STATION	OFFSET	RT/LT	ELEVATION	COMMENTS
1	XXXX+XX.XX	XX.XX'	XX	XX.XX'	SIGNAL POLE
2	XXXX+XX.XX	XX.XX'	XX	XX.XX'	SIGNAL POLE
3	XXXX+XX.XX	XX.XX'	XX	XX.XX'	SIGNAL POLE
4	XXXX+XX.XX	XX.XX'	XX	XX.XX'	PEDESTRIAN PUSHBUTTON POLE
5	XXXX+XX.XX	XX.XX'	XX	XX.XX'	PEDESTAL SIGNAL POLE
HANDHOLE NO.	STATION	OFFSET	RT/LT	ELEVATION	COMMENTS
1	XXXX+XX.XX	XX.XX'	XX	XX.XX'	TYPE 3 HANDHOLE "TRAFFIC"
2	XXXX+XX.XX	XX.XX'	XX	XX.XX'	TYPE 1 HANDHOLE "TRAFFIC"
3	XXXX+XX.XX	XX.XX'	XX	XX.XX'	TYPE 1 HANDHOLE "TRAFFIC"
4	XXXX+XX.XX	XX.XX'	XX	XX.XX'	TYPE 1 HANDHOLE "TRAFFIC"
SIGNAL CABINET NO.	STATION	OFFSET	RT/LT	ELEVATION	COMMENTS
1	XXXX+XX.XX	XX.XX'	XX	XX.XX'	W/ ATTACHED METER

SIGNAL LAYOUT
40TH ST
& 40TH ST RAMP C/WB W BROADWAY

FILE NO.	ENGLISH	DESIGN TEAM Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER IM-029-3(166)54--13-78	SHEET NUMBER N.7

11:31:40 AM 10/26/2017 jlastov j:\projectwise\jlastov\hntb\d0144711\78029166-HRG-N10.sht.dgn

LEGEND

- HIGH MAST TOWER LIGHT/POLE
- SINGLE-ARM COBRAHEAD LIGHT/POLE
- TWIN-ARM COBRAHEAD LIGHT/POLE
- UNDERDECK LIGHT ASSEMBLY
- EXISTING LIGHT/POLE

NOTE: PROPOSED GRADING CONTOURS ARE SHOWN.

HIGH MAST TOWER LIGHTING

ALL LUMINAIRES ARE 400W HIGH PRESSURE SODIUM.
ALL ARE IES TYPE 2, MEDIUM CUTOFF LIGHT DISTRIBUTION.
ALL LUMINAIRES ON A TOWER ARE OPTICALLY AIMED PERPENDICULAR TO THE INDICATED ROADWAY ALLIGNMENT

TOWER LABEL:

STA 000+00.00, 00.00 RT/LT
HM1-140FT-8LTS

- NO. OF LUMINAIRES
- TOWER HEIGHT
- TAG NO.

COBRAHEAD LIGHTING

ALL LUMINAIRES ARE PHILIPS LUMEC ROADFOCUS BRAND/MODEL UTILIZING LED LIGHT SOURCES EMITTING 4000K NEUTRAL WHITE LIGHT. THE LUMINAIRES SHALL BE CONSTRUCTED USING 64 LEDS AT 145W (250W HPS EQUIVALENT), OR 32 LEDS AT 72W (150W HPS EQUIVALENT).

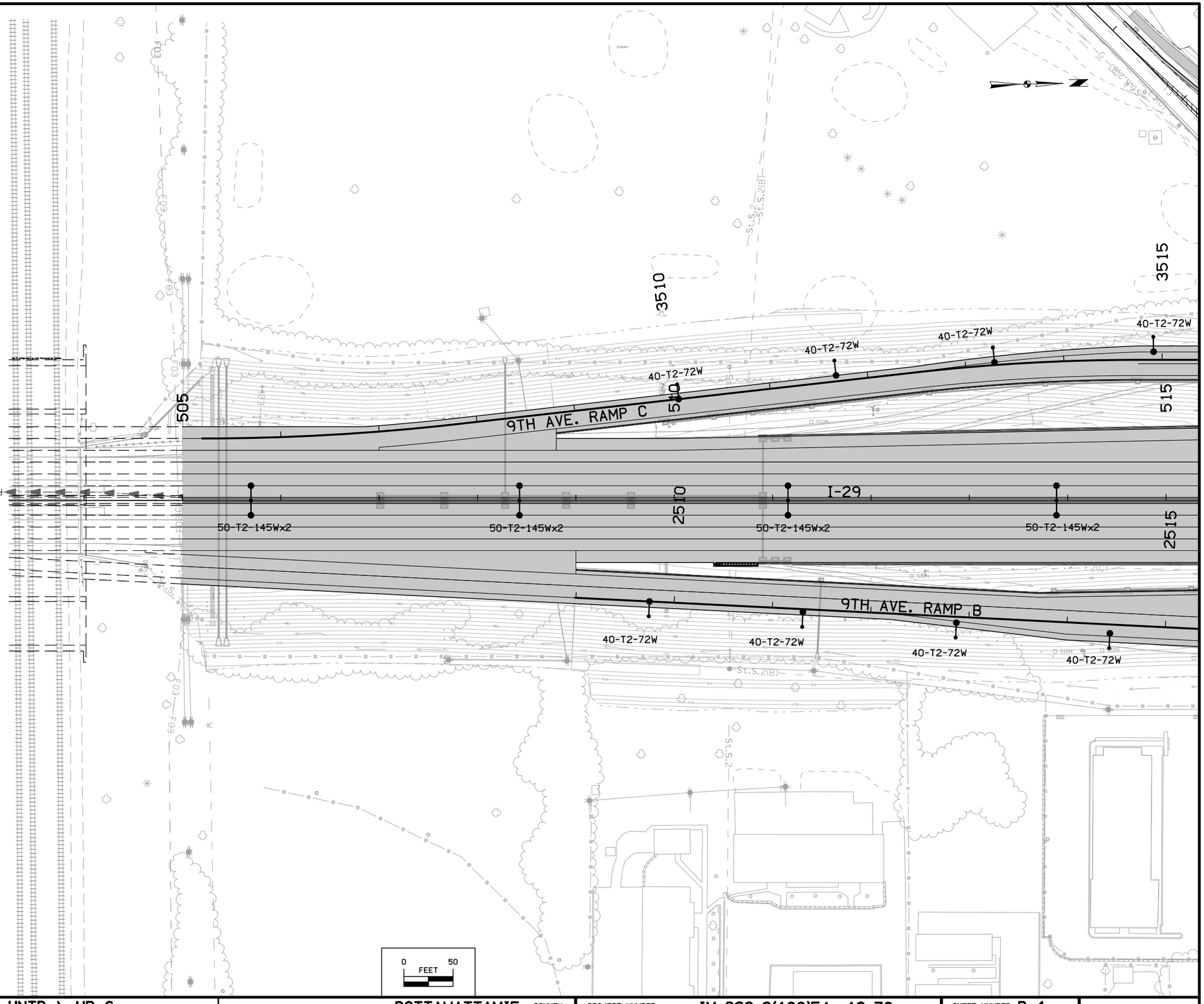
COBRAHEAD LABEL:

50-T2-145Wx2

- X2 FOR TWIN-ARM
- LUMINAIRE WATTAGE
- IES LIGHT DISTRIBUTION
- LUMINAIRE MOUNTING HEIGHT

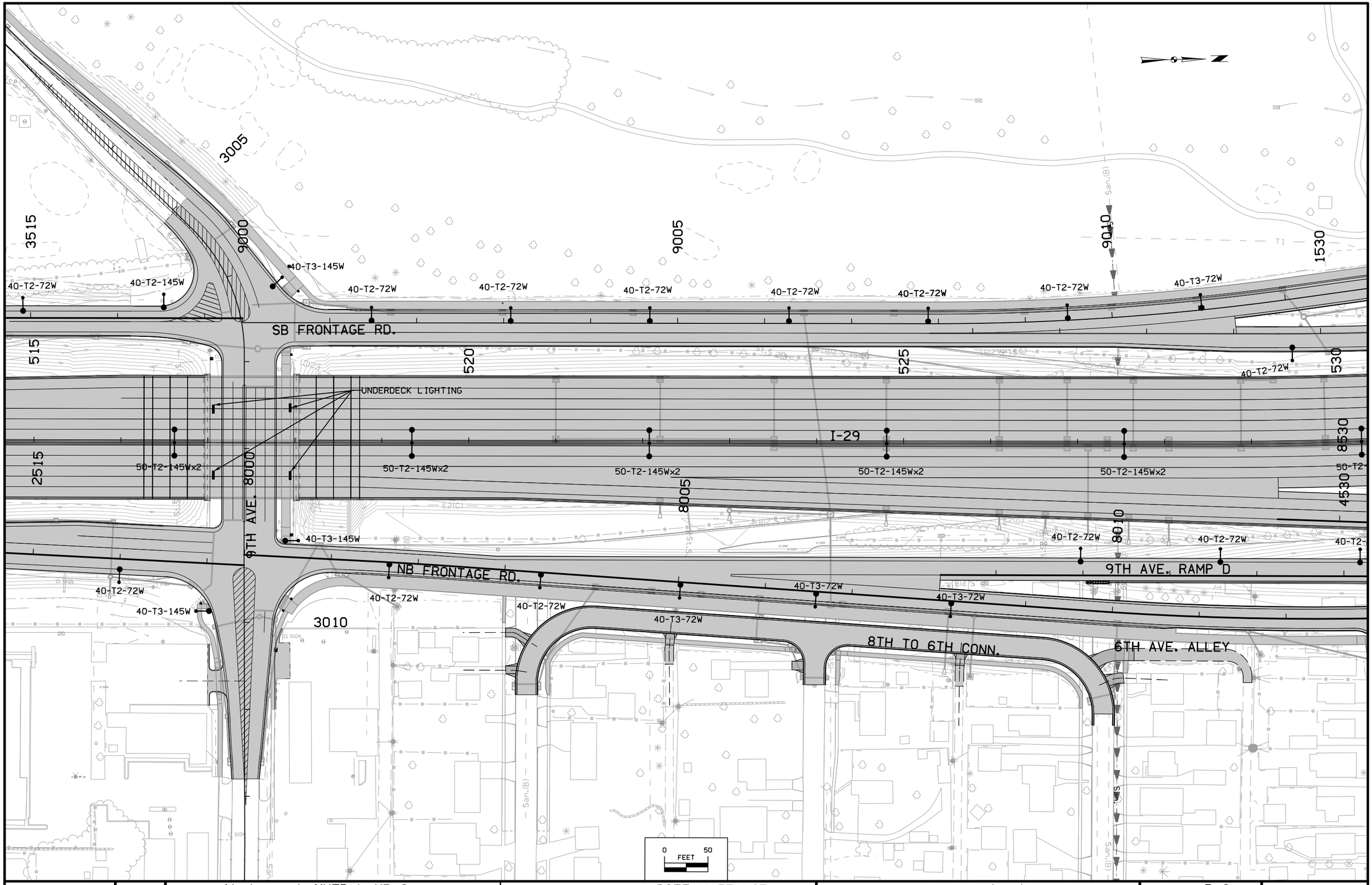
UNDERDECK LIGHTING

ALL LUMINAIRES ARE LED LIGHT SOURCES EMITTING 4000K NEUTRAL WHITE LIGHT.
THE LUMINAIRES ARE RATED AT 50W.



FILE NO.	ENGLISH	DESIGN TEAM Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER IM-029-3(166)54--13-78	SHEET NUMBER P.1

11:05:55 AM 10/26/2017 jangus j:\projectwise\jangus\hntb\d0156164\78029166_HRG_P.1_050.sht



FILE NO.	ENGLISH	DESIGN TEAM Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER IM-029-3(166)54--13-78	SHEET NUMBER P.2

11:05:58 AM 10/26/2017 jangus j:\projectwise\jangus\hntb\d0156164\78029166_HRG_P.1_050.sht

SB FRONTAGE RD.

9TH AVE. RAMP A

I-480 RAMP C

I-29

I-480 RAMP H

9TH AVE. RAMP D

NB FRONTAGE RD.

4TH TO 3RD CONN.

3RD AVE. ALLEY

DODGE RIVERSIDE DR.

2ND AVE.

UNDERDECK LIGHTING

STA 537+96.13, 68.99 RT
HM1-140FT-8LTS

40-T2-72W

50-T2-145Wx2

40-T2-145W

0 FEET 50

FILE NO.	ENGLISH	DESIGN TEAM Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER IM-029-3(166)54--13-78	SHEET NUMBER P.3

11:06:02 AM 10/26/2017 jangus j:\projectwise\jangus\hntb\d0156164\78029166_HRG_P.1_050.sht

STA 3546+14.97, 79.63 RT
HM6-140FT-8LTS

STA 9034+47.52, 29.94 RT
HM7-140FT-8LTS

UNDERDECK LIGHTING

STA 545+24.13, 95.55 RT
HM2-140FT-8LTS

STA 553+23.12, 102.61 RT
HM3-140FT-8LTS

SB FRONTAGE RD.

I-480 RAMP F

I-480 RAMP H

I-480 RAMP A

W BROADWAY

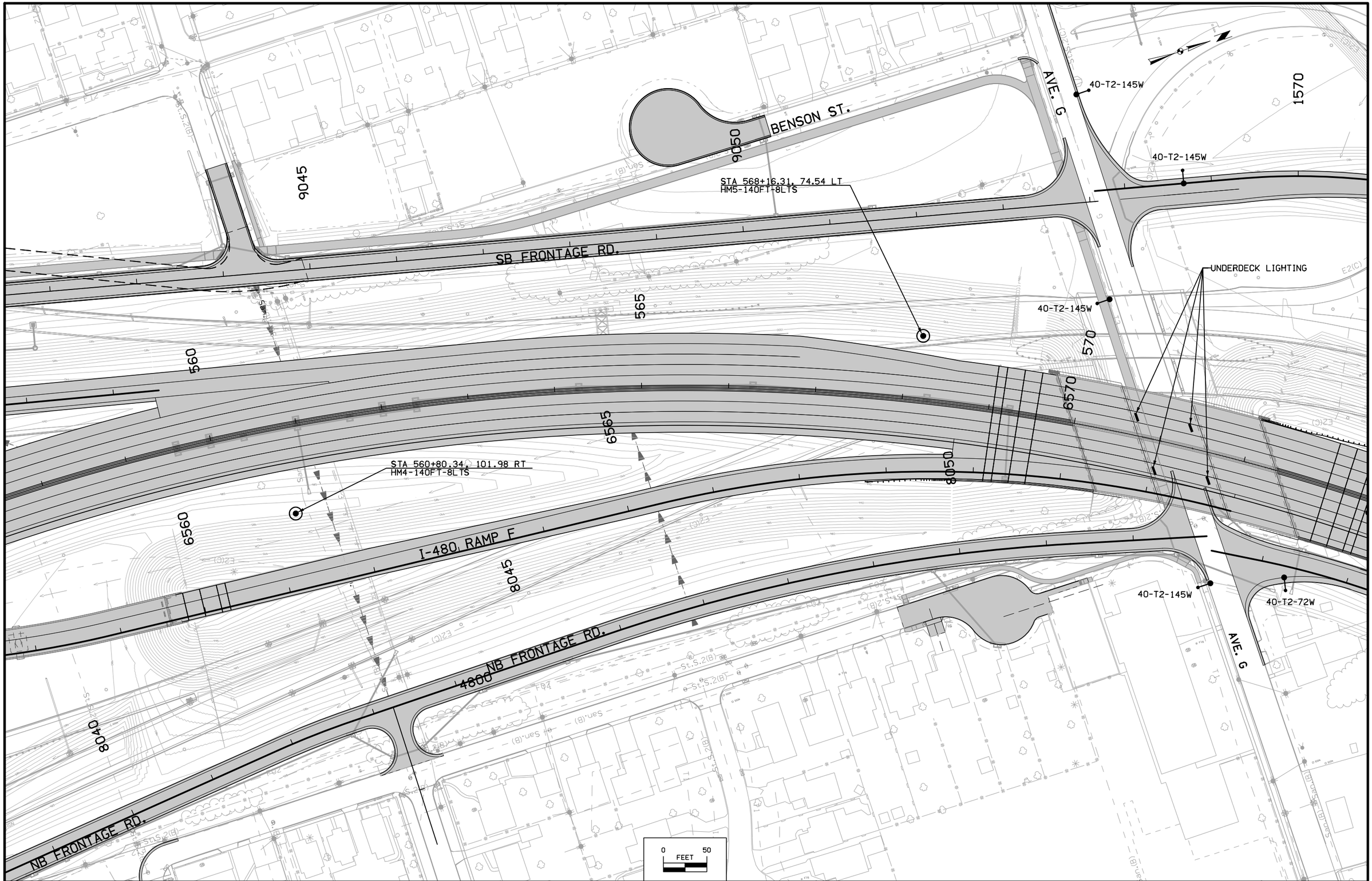
I-29

NB FRONTAGE RD.

0 FEET 50

FILE NO.	ENGLISH	DESIGN TEAM Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER IM-029-3(166)54--13-78	SHEET NUMBER P.4

11:06:06 AM 10/26/2017 jangus j:\projectwise\jangus\hntb\d0156164\78029166_HRG_P.1_050.sht



FILE NO.	ENGLISH	DESIGN TEAM Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER IM-029-3(166)54--13-78	SHEET NUMBER P.5

11:06:09 AM 10/26/2017 jangus j:\projectwise\jangus\hntb\d0156164\78029166_HRG_P.1_050.sht

AVE. G RAMP A

AVE. G RAMP D

I-29

AVE. G

UNDERDECK LIGHTING

LEVEE CRITICAL ZONE

40-T2-145W

40-T2-72W

50-T2-145Wx2

1570

1575

1580

1585

570

575

580

585

0 FEET 50

FILE NO.	ENGLISH	DESIGN TEAM Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER IM-029-3(166)54--13-78	SHEET NUMBER P.6

11:06:12 AM 10/26/2017 jangus j:\projectwise\jangus\hntb\d0156164\78029166_HRG_P.1_050.sht

LEVEE CRITICAL ZONE

1585

590

595

40-T2-145W

585

AVE. G RAMP A

1585

I-29

50-T2-145Wx2

50-T2-145Wx2

50-T2-145Wx2

50-T2-145Wx2

50-T2-145Wx2

AVE. G RAMP D

F02

E2(C)

SIGN

BLDG.

0 50
FEET

FILE NO.	ENGLISH	DESIGN TEAM Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER IM-029-3(166)54--13-78	SHEET NUMBER P.7

11:06:14 AM 10/26/2017 jangus j:\projectwise\jangus\hntb\d0156164\78029166_HRG_P.1_050.sht

LEVEE CRITICAL ZONE

600

605

610

I-29(ML029)

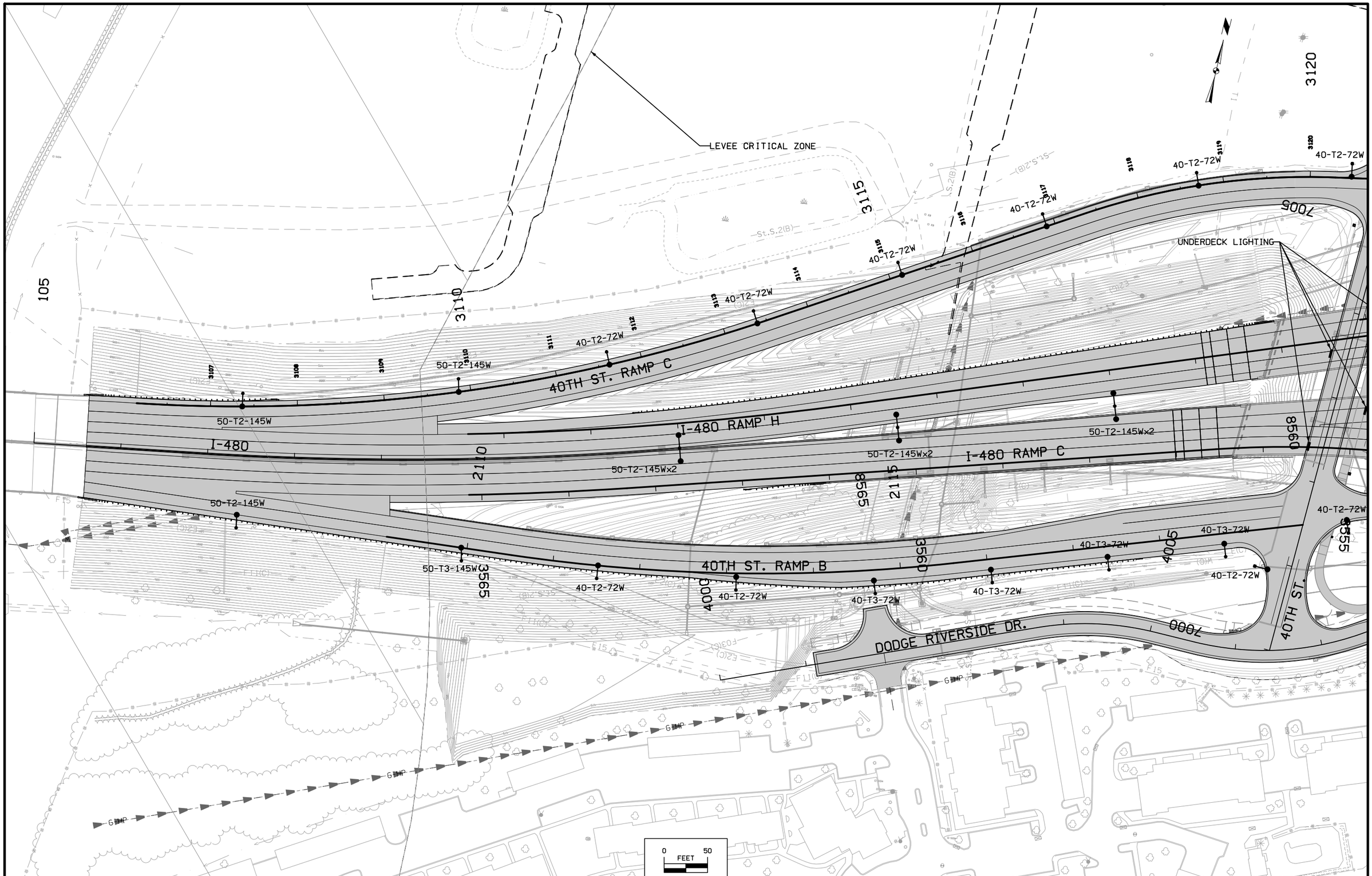
50-T2-145Wx2

50-T2-145Wx2

0 FEET 50

FILE NO.	ENGLISH	DESIGN TEAM Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER IM-029-3(166)54--13-78	SHEET NUMBER P.8

11:06:17 AM 10/26/2017 jangus j:\projectwise\jangus\hntb\d0156164\78029166_HRG_P.1_050.sht



FILE NO.	ENGLISH	DESIGN TEAM Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER IM-029-3(166)54--13-78	SHEET NUMBER P.9

11:06:20 AM 10/26/2017 jangus j:\projectwise\jangus\hntb\d0156164\78029166_HRG_P.1_050.sht

UNDERDECK LIGHTING

STA 553+23.12, 102.61 RT
HM3-140FT-8LTS

STA 9034+47.52, 29.94 RT
HM7-140FT-8LTS

40-T2-72W

40-T2-72W

UNDERDECK LIGHTING

UNDERDECK LIGHTING

STA 3552+16.58, 47.99 RT
HM8-140FT-8LTS

STA 3546+14.97, 79.63 RT
HM6-140FT-8LTS

STA 545+24.13, 95.55 RT
HM2-140FT-8LTS

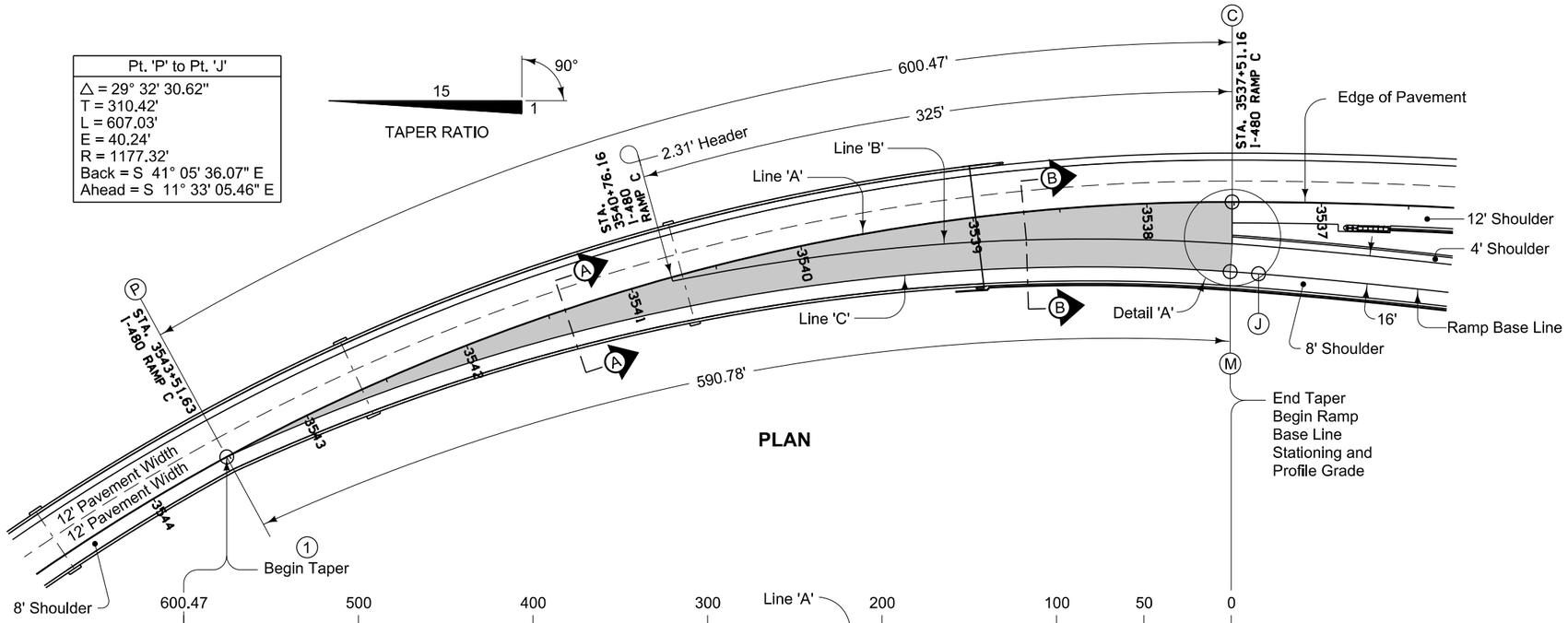
UNDERDECK LIGHTING

0 50
FEET

FILE NO.	ENGLISH	DESIGN TEAM Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER IM-029-3(166)54--13-78	SHEET NUMBER P.10	

11:06:23 AM 10/26/2017 jangus j:\projectwise\jangus\hntb\d0156164\78029166_HRG_P.1_050.sht

Pt. 'P' to Pt. 'J'
△ = 29° 32' 30.62"
T = 310.42'
L = 607.03'
E = 40.24'
R = 1177.32'
Back = S 41° 05' 36.07" E
Ahead = S 11° 33' 05.46" E



Points on bridge shown for information only. See Bridge Plans.

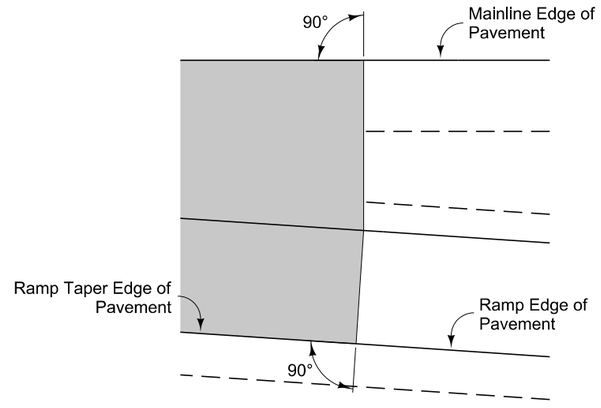
Construct ramp exit pavement the same thickness as mainline pavement.

Ramp exit pavement shown by shaded area is 1320 square yards.

See L-Sheets for jointing details

① For header construction details at the beginning of taper, see Typical 7101 or Typical 7102.

② Construct subbase for ramp exit pavement the same thickness as mainline subbase.



DETAIL A

TABLE OF OFFSETS AND DROPS FOR 16' RAMP TAPER																									
DISTANCE FROM POINT Ⓒ ALONG LINE 'A' (Ft.)		600.47	575	550	525	500	475	450	425	400	375	350	325	300	275	250	225	200	175	150	125	100	75	50	25	0
From Line 'A' To Line 'B'	OFFSET (Ft.)												2.31	3.99	5.68	7.36	9.04	10.72	12.40	14.07	15.74	17.41	19.06	20.71	22.36	24.00
	SLOPE (%)												← Constant 5.0% Slope →													
	DROP (Ft.)												0.12	0.20	0.28	0.37	0.45	0.54	0.62	0.70	0.79	0.87	0.95	1.04	1.12	1.20
From Line 'B' To Line 'C'	OFFSET (Ft.)												← Constant 16' Offset →													
	SLOPE (%)												← Constant 5.0% Slope →													
	DROP (Ft.)												0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80
From Line 'A' To Line 'C'	OFFSET (Ft.)	0.00	1.67	3.31	4.96	6.62	8.28	9.95	11.62	13.30	14.98	16.66														
	SLOPE (%)	← Constant 5.0% Slope →																								
	DROP (Ft.)	0.00	0.08	0.17	0.25	0.33	0.41	0.50	0.58	0.67	0.75	0.83	0.92	1.00	1.08	1.17	1.25	1.34	1.42	1.50	1.59	1.67	1.75	1.84	1.92	2.00
DISTANCE FROM POINT Ⓜ ALONG LINE 'C' (Ft.)		590.78	565.28	540.27	515.30	490.37	465.50	440.60	415.77	390.97	366.79	341.48	317.87	293.22	268.59	244.01	219.45	194.94	170.45	146.01	121.59	98.21	72.87	48.56	24.28	0

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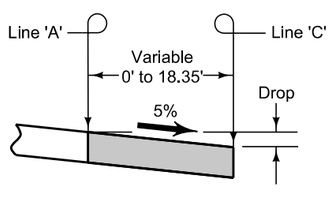
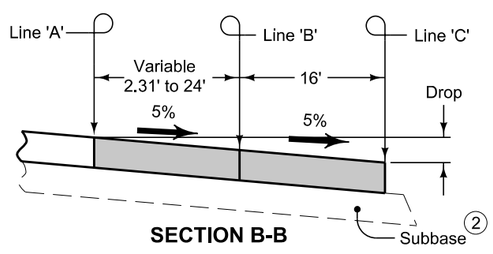


SECTION A-A



SECTION B-B

MODIFIED

STANDARD ROAD PLAN

REVISION	
3	10-17-17

PV-410

SHEET 1 of 2

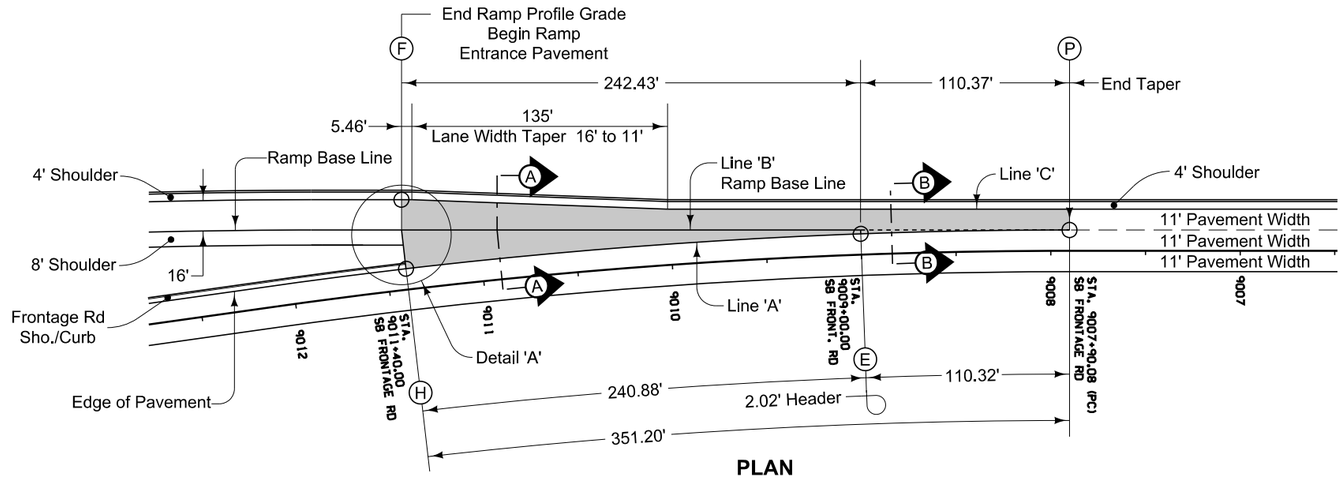
MODIFICATIONS: Revised plan view, offsets, and drops table, and selections to match conditions at Ramp A

APPROVED BY DESIGN METHODS ENGINEER

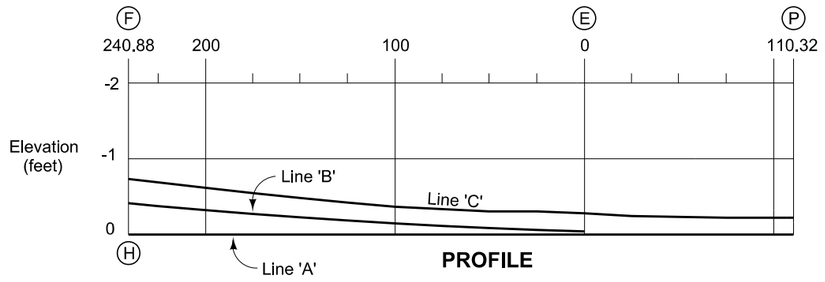
I-480 RAMP C TO 9TH AVE. RAMP A 16' EXIT RAMP

FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER U.1

3:58:44 PM 10/26/2017 mplummer pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\78029166-U.sht



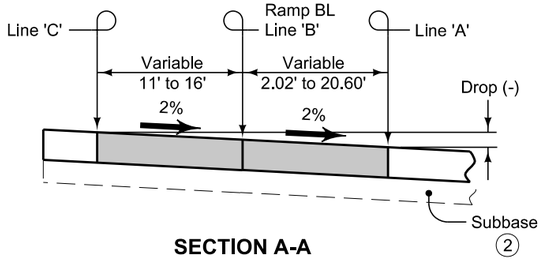
PLAN



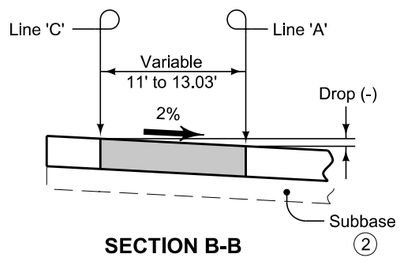
PROFILE

TABLE OF OFFSETS AND DROPS FOR 16' RAMP																	
DISTANCE FROM POINT (E) ALONG LINE 'A' (Ft.)		240.88	225	200	175	150	125	100	75	50	25	0	25	50	75	100	110.32
From Line 'A' To Line 'B'	OFFSET (Ft.)	20.60	18.77	16.06	13.57	11.29	9.22	7.36	5.71	4.27	3.04						
	SLOPE (%)	← Constant -2.0% Slope →															
	DROP (Ft.)	-0.41	-0.38	-0.32	-0.27	-0.23	-0.18	-0.15	-0.11	-0.09	-0.06						
From Line 'B' To Line 'C'	OFFSET (Ft.)	16.00	15.61	14.67	13.73	12.80	11.87	11.00	11.00	11.00	11.00						
	SLOPE (%)	← Constant -2.0% Slope →															
	DROP (Ft.)	-0.32	-0.31	-0.29	-0.27	-0.26	-0.24	-0.22	-0.22	-0.22	-0.22						
From Line 'A' To Line 'C'	OFFSET (Ft.)											13.03	12.21	11.61	11.21	11.02	11.00
	SLOPE (%)											← Constant -2.0% Slope →					
	DROP (Ft.)	-0.73	-0.69	-0.61	-0.55	-0.48	-0.42	-0.37	-0.33	-0.31	-0.28	-0.26	-0.24	-0.23	-0.22	-0.22	-0.22
DISTANCE FROM POINT (E) ALONG LINE 'B' (Ft.)		242.43	226.34	201.05	175.81	150.60	125.43	100.29	75.19	50.10	25.04	0					

F E P H



SECTION A-A



SECTION B-B

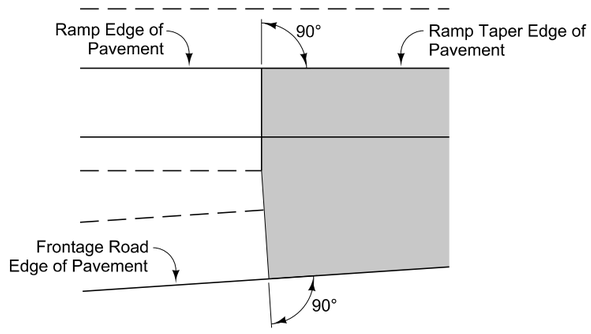
Construct ramp entrance pavement the same thickness as mainline pavement.

Ramp entrance pavement shown by shaded area is 740 square yards.

See L-Sheets for jointing details

For header construction details at the end of taper, see Typical 7101 or Typical 7102.

(2) Construct subbase for ramp entrance pavement the same thickness as mainline subbase.



DETAIL A

MODIFIED STANDARD ROAD PLAN

REVISION	
3	10-17-17

PV-411

SHEET 1 of 2

MODIFICATIONS: Revised plan view, offsets, and drops table, and selections to match conditions at Ramp A

APPROVED BY DESIGN METHODS ENGINEER

9TH AVE. RAMP A TO SB FRONTAGE RD. 16' ENTRANCE RAMP

FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER U.2

3:58:46 PM 10/26/2017 mplummer pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\78029166-U.sht

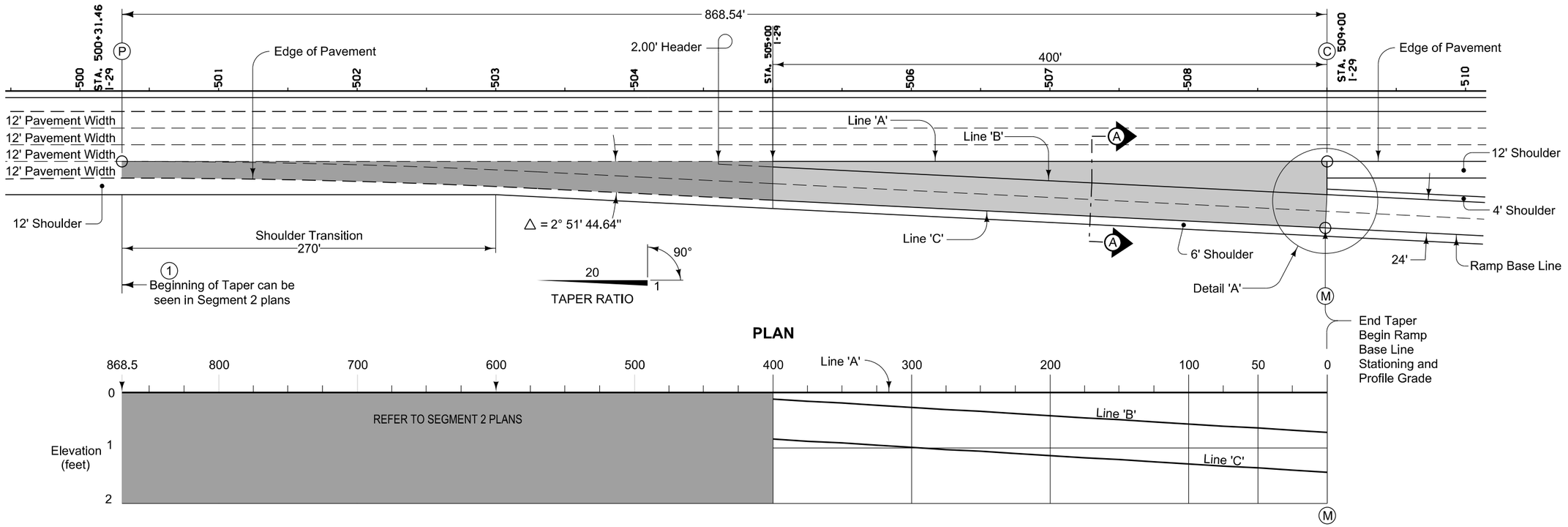


TABLE OF OFFSETS AND DROPS FOR 24' RAMP TAPER

DISTANCE FROM POINT Ⓒ ALONG LINE 'A' (Ft.)		868.5	850	825	800	775	750	725	700	675	650	625	600	575	550	525	500	475	450	425	400	375	350	320	300	275	250	225	200	175	150	125	100	75	50	25	0
From Line 'A' To Line 'B'	OFFSET (Ft.)	REFER TO SEGMENT 2 PLANS																			3.90	5.15	6.40	7.65	8.90	10.15	11.40	12.65	13.90	15.15	16.40	17.65	18.90	20.15	21.40	22.65	23.90
	SLOPE (%)																				Constant 3.0% Slope →															
	DROP (Ft.)																				0.12	0.15	0.19	0.23	0.27	0.30	0.34	0.38	0.42	0.45	0.49	0.53	0.57	0.60	0.64	0.68	0.72
From Line 'B' To Line 'C'	OFFSET (Ft.)																				← Constant 24' Offset →																
	SLOPE (%)																				← Constant 3.0% Slope →															
	DROP (Ft.)																				0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72
From Line 'A' To Line 'C'	OFFSET (Ft.)																																				
	SLOPE (%)																																				
	DROP (Ft.)																				0.84	0.87	0.91	0.95	0.99	1.02	1.06	1.10	1.14	1.17	1.21	1.25	1.29	1.32	1.36	1.40	1.44

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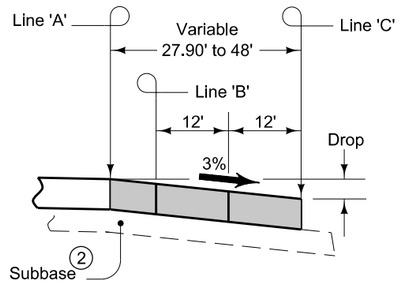
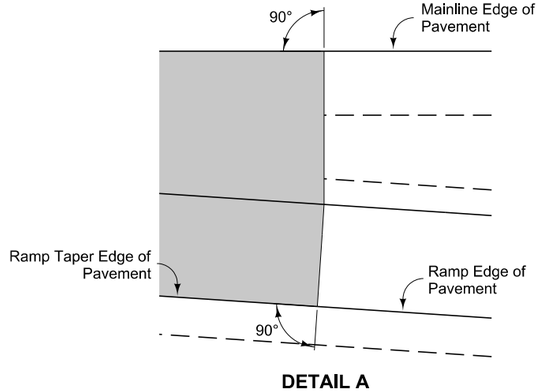
Ⓜ



SECTION A-A



DETAIL A

Construct ramp exit pavement the same thickness as mainline pavement.

Ramp exit pavement shown by shaded area for the Segment 4 Project is 1684 square yards.

See L-Sheets for jointing details

For header construction details at the beginning of taper, see Typical 7101 or Typical 7102.

② Construct subbase for ramp exit pavement the same thickness as mainline subbase.

MODIFIED

STANDARD ROAD PLAN

REVISION 3 10-17-17

PV-410

SHEET 1 of 2

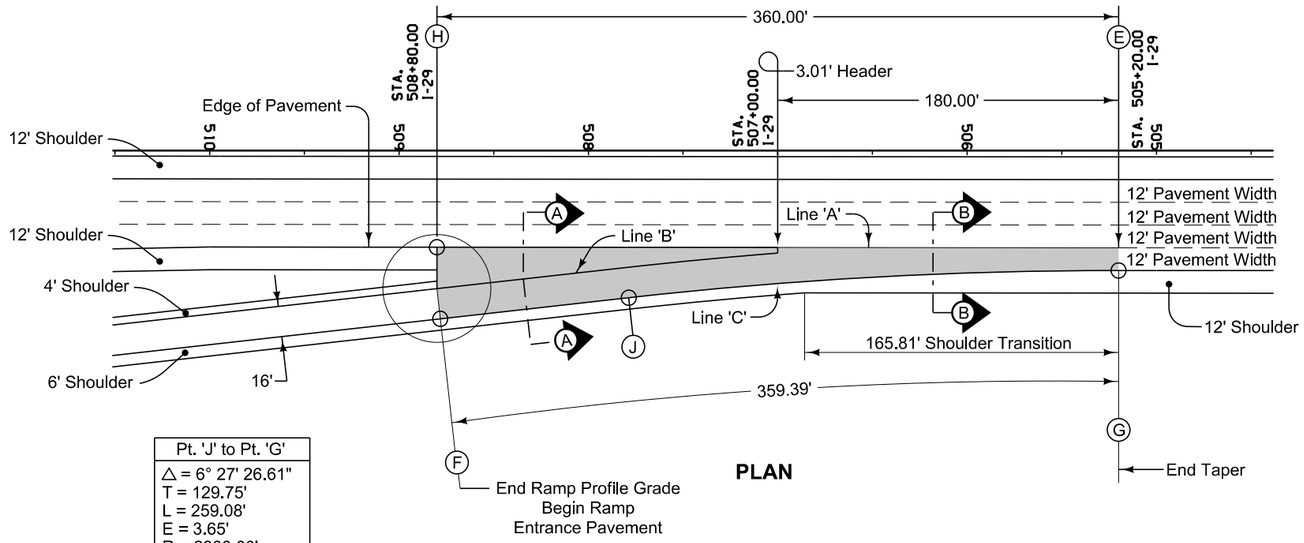
MODIFICATIONS: Revised plan view, offsets, drops table, and selections to match conditions at Ramp B

APPROVED BY DESIGN METHODS ENGINEER

NORTHBOUND I-29 TO 9TH AVE. RAMP B 24' EXIT RAMP

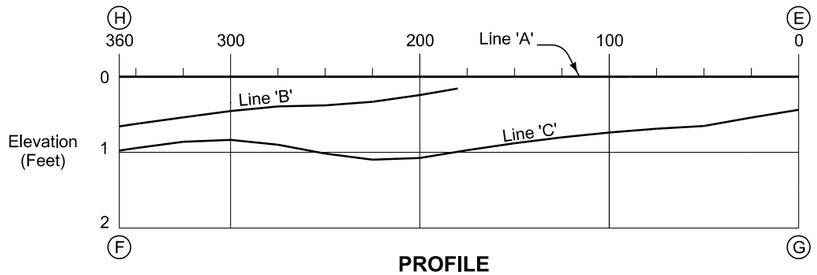
FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER U.3

3:58:47 PM 10/26/2017 mplummer pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\78029166-U.sht



PLAN

Pt. 'J' to Pt. 'G'
△ = 6° 27' 26.61"
T = 129.75'
L = 259.08'
E = 3.65'
R = 2300.00'

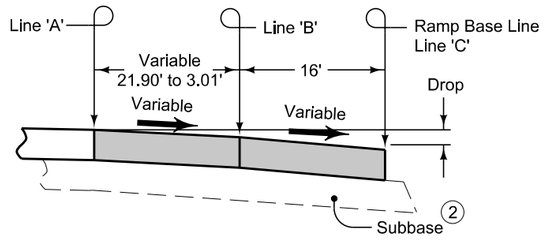


PROFILE

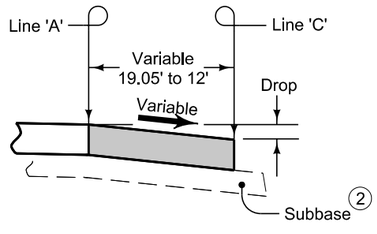
H E

TABLE OF OFFSETS AND DROPS FOR 16' RAMP																		
Distance From Point (E) Along Line 'A' (Ft.)		360	350	325	300	275	250	225	200	180	175	150	125	100	75	50	25	0
From Line 'A' To Line 'B'	Offset (Ft.)	21.90	20.78	17.96	15.15	12.33	9.53	6.96	4.65									
	Slope (%)	← Constant 3.0% Slope →				3.18	3.98	4.77	5.20									
	Drop (Ft.)	0.66	0.62	0.54	0.45	0.39	0.38	0.33	0.24									
From Line 'B' To Line 'C'	Offset (Ft.)	← Constant 16.0' Offset →																
	Slope (%)	2.00	2.00	2.00	2.38	3.17	3.98	4.78	5.20									
	Drop (Ft.)	0.32	0.32	0.32	0.38	0.51	0.64	0.76	0.83									
From Line 'A' To Line 'C'	Offset (Ft.)									19.05	18.67	16.90	15.40	14.17	13.22	12.54	12.14	12.00
	Slope (%)									← Constant 5.2% Slope →							4.44	3.64
	Drop (Ft.)	0.98	0.94	0.86	0.84	0.90	1.02	1.10	1.07	0.99	0.97	0.88	0.80	0.74	0.69	0.65	0.54	0.44
Distance From Point (G) Along Line 'C' (Ft.)		359.39	349.32	324.17	299.01	273.85	248.76	223.80	198.87	180.18	175.17	150.11	125.06	100.03	75.01	50.00	25.00	0.00

F P



SECTION A-A



SECTION B-B

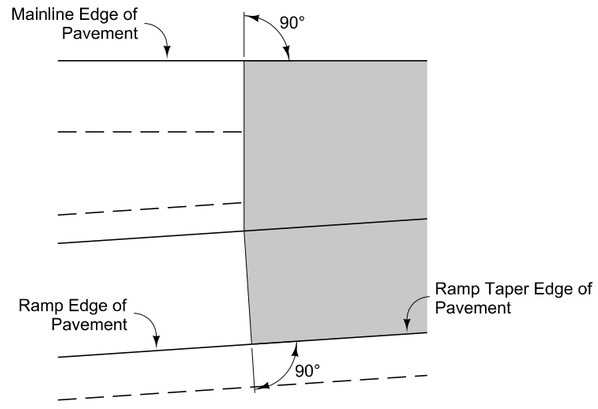
Construct ramp entrance pavement the same thickness as mainline pavement.

Ramp entrance pavement shown by shaded area is 847 square yards.

See L-Sheets for jointing details

For header construction details at the end of taper, see Typical 7101 or Typical 7102.

(2) Construct subbase for ramp entrance pavement the same thickness as mainline subbase.



DETAIL A

MODIFIED

STANDARD ROAD PLAN

REVISION	
3	10-17-17

PV-411

SHEET 1 of 2

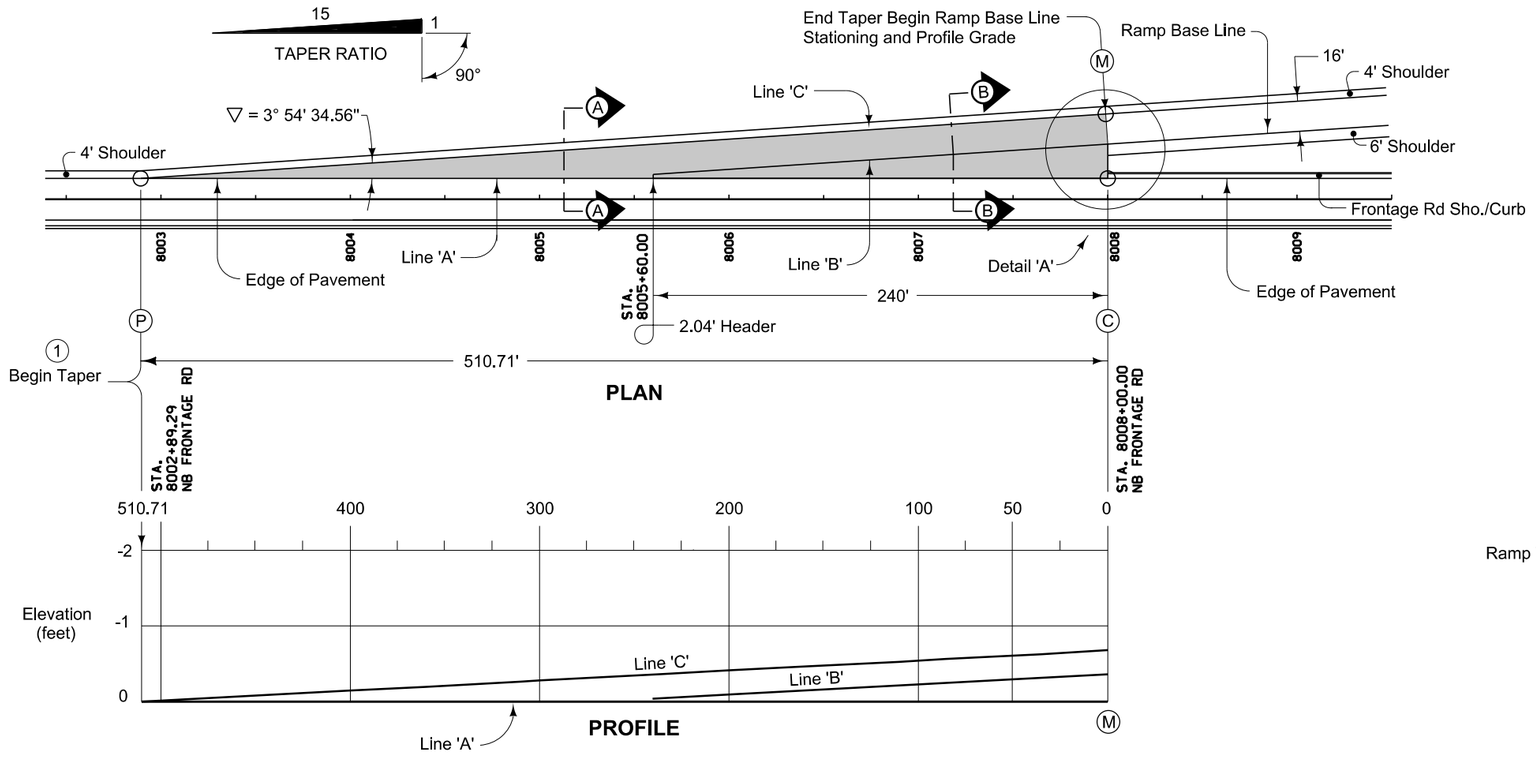
MODIFICATIONS: Revised plan view, offsets, and drops table, and selections to match conditions at Ramp C

APPROVED BY DESIGN METHODS ENGINEER

9TH AVE RAMP C TO SOUTHBOUND I-29 16' ENTRANCE RAMP

FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER U.4

3:58:48 PM 10/26/2017 mplummer pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\78029166-U.sht



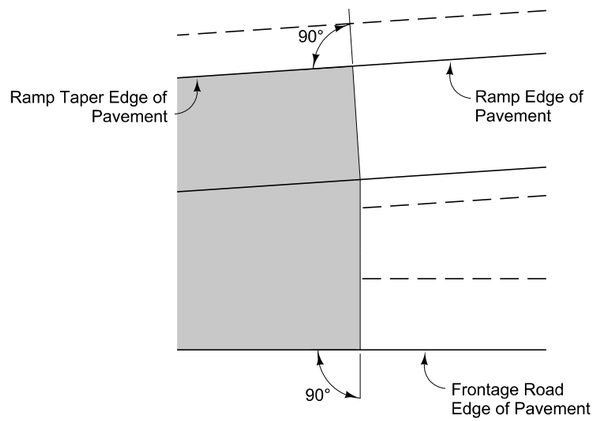
Construct ramp exit pavement the same thickness as mainline pavement.

Ramp exit pavement shown by shaded area is 967 square yards.

See L-Sheets for jointing details

(1) For header construction details at the beginning of taper, see Typical 7101 or Typical 7102.

(2) Construct subbase for ramp exit pavement the same thickness as mainline subbase.

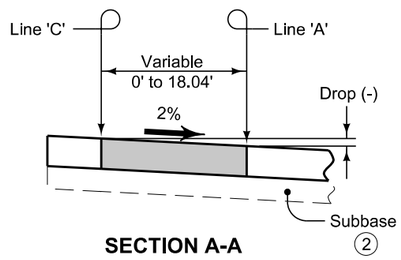


DETAIL A

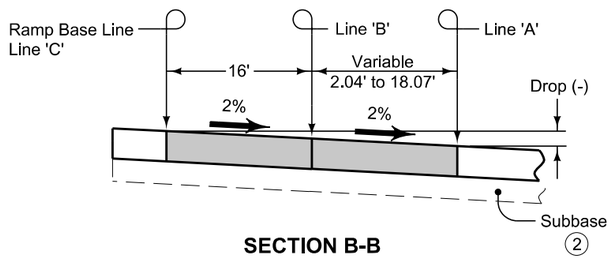
Ⓟ Ⓒ

TABLE OF OFFSETS AND DROPS FOR 16' RAMP TAPER																								
DISTANCE FROM POINT Ⓒ ALONG LINE 'A' (Ft.)		510.71	500	475	450	425	400	375	350	325	300	275	250	240	225	200	175	150	125	100	75	50	25	0
From Line 'A' To Line 'B'	OFFSET (Ft.)													2.04	3.04	4.71	6.38	8.05	9.72	11.39	13.06	14.73	16.40	18.07
	SLOPE (%)													← Constant -2.0% Slope →										
	DROP (Ft.)													-0.04	-0.06	-0.09	-0.13	-0.16	-0.19	-0.23	-0.26	-0.29	-0.33	-0.36
From Line 'B' To Line 'C'	OFFSET (Ft.)													← Constant 16' Offset →										
	SLOPE (%)													← Constant -2.0% Slope →										
	DROP (Ft.)													-0.32	-0.32	-0.32	-0.32	-0.32	-0.32	-0.32	-0.32	-0.32	-0.32	-0.32
From Line 'A' To Line 'C'	OFFSET (Ft.)	0	0.72	2.38	4.05	5.72	7.39	9.06	10.73	12.40	14.07	15.74	17.41											
	SLOPE (%)	← Constant -2.0% Slope →																						
	DROP (Ft.)	0	-0.01	-0.05	-0.08	-0.11	-0.15	-0.18	-0.21	-0.25	-0.28	-0.31	-0.35	-0.36	-0.38	-0.41	-0.45	-0.48	-0.51	-0.55	-0.58	-0.61	-0.65	-0.68

Ⓜ



SECTION A-A



SECTION B-B

MODIFIED

STANDARD ROAD PLAN

REVISION	
3	10-17-17

PV-410

SHEET 1 of 2

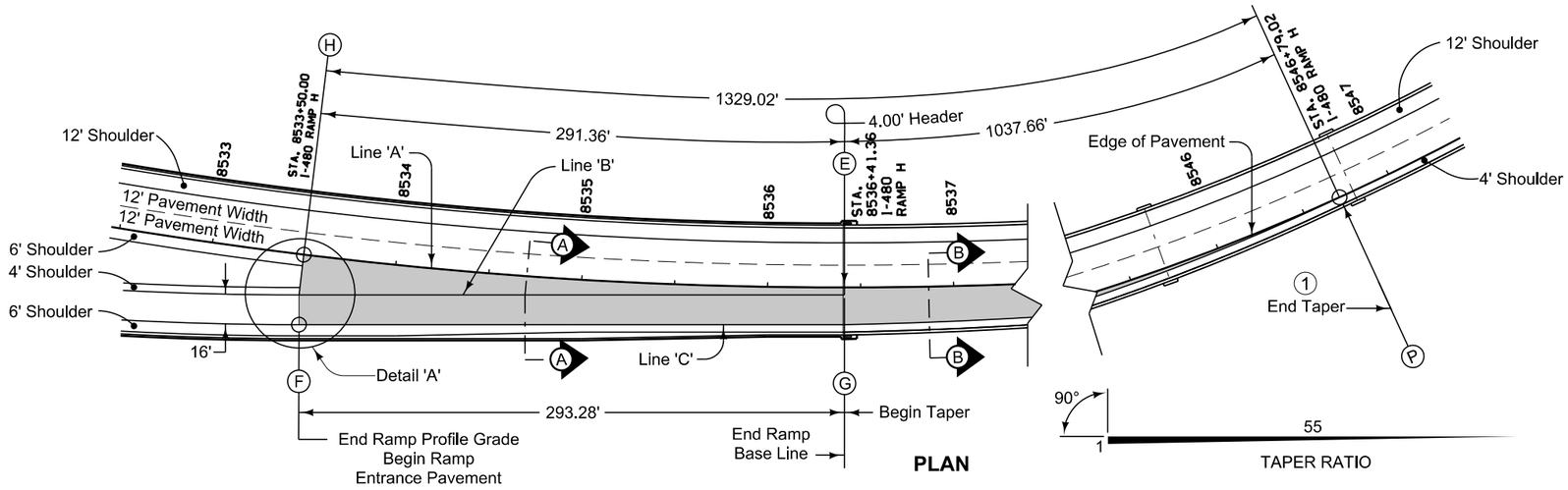
MODIFICATIONS: Revised plan view, offsets, and drops table, and selections to match conditions at Ramp D

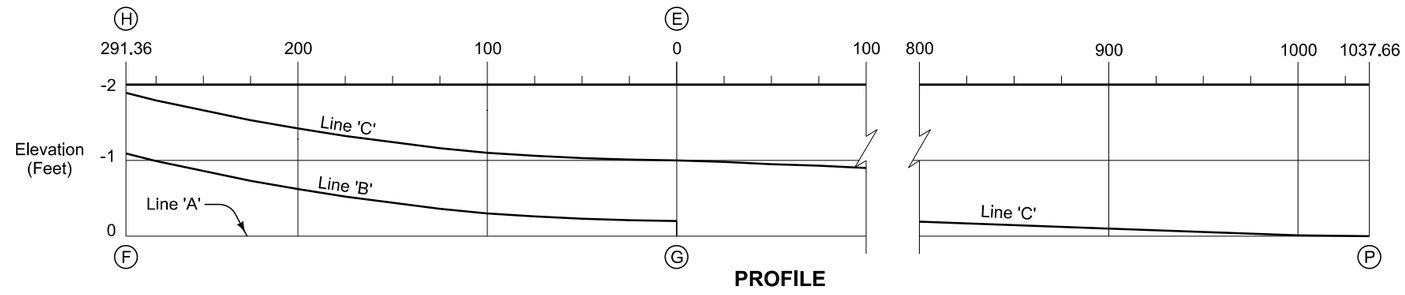
APPROVED BY DESIGN METHODS ENGINEER

NB FRONTAGE RD. TO 9TH AVE. RAMP D 16' EXIT RAMP

FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER U.5

3:58:50 PM 10/26/2017 mplummer pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\78029166-U.sht





PROFILE

Points on bridge shown for information only. See Bridge Plans.

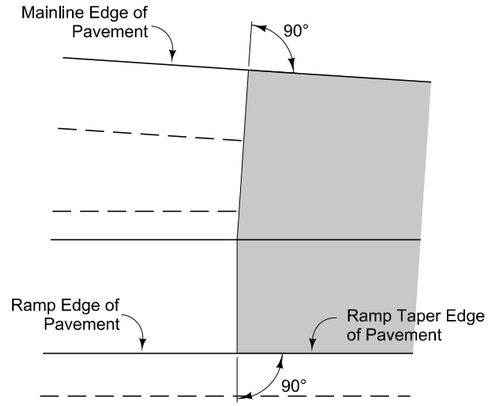
Construct ramp entrance pavement the same thickness as mainline pavement.

Ramp entrance pavement shown by shaded area is 1988 square yards.

See L-Sheets for jointing details

(1) For header construction details at the end of taper, see Typical 7101 or Typical 7102.

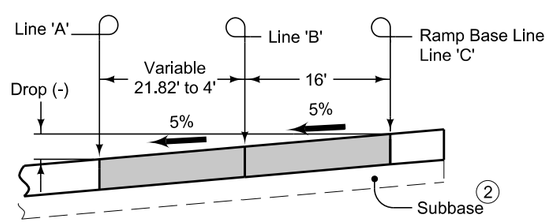
(2) Construct subbase for ramp entrance pavement the same thickness as mainline subbase.



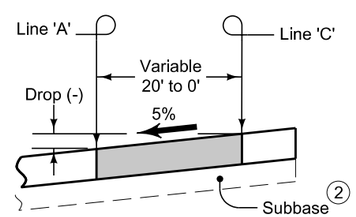
DETAIL A

		TABLE OF OFFSETS AND DROPS FOR 16' RAMP TAPER																										
Distance From Point (E) Along Line 'A' (Ft.)		291.36	275	250	225	200	175	150	125	100	75	50	25	0	25	50	75	100	200	300	400	500	600	700	800	900	1000	1037.66
From Line 'A' To Line 'B'	Offset (Ft.)	21.82	19.87	17.10	14.60	12.37	10.41	8.70	7.26	6.09	5.17	4.52	4.13	4.00														
	Slope (%)	Constant -5.0% Slope																										
	Drop (Ft.)	-1.09	-0.99	-0.86	-0.73	-0.62	-0.52	-0.44	-0.36	-0.30	-0.26	-0.23	-0.21	-0.20														
From Line 'B' To Line 'C'	Offset (Ft.)	Constant 16.0' Offset																										
	Slope (%)	Constant -5.0% Slope																										
	Drop (Ft.)	-0.80	-0.80	-0.80	-0.80	-0.80	-0.80	-0.80	-0.80	-0.80	-0.80	-0.80	-0.80	-0.80														
From Line 'A' To Line 'C'	Offset (Ft.)														19.52	19.04	18.55	18.07	16.14	14.18	12.20	10.21	8.23	6.28	4.35	2.48	0.66	0.00
	Slope (%)														Constant -5.0% Slope													
	Drop (Ft.)	-1.89	-1.79	-1.66	-1.53	-1.42	-1.32	-1.24	-1.16	-1.10	-1.06	-1.03	-1.01	-1.00	-0.98	-0.95	-0.93	-0.90	-0.81	-0.71	-0.61	-0.51	-0.41	-0.31	-0.22	-0.12	-0.03	0.00
Distance From Point (G) Along Line 'C' (Ft.)		293.28	276.67	251.33	226.04	200.80	175.60	150.45	125.32	100.22	75.15	50.09	25.04	0.00														

(H) (E) (F) (G) (P)



SECTION A-A



SECTION B-B

MODIFIED

STANDARD ROAD PLAN

REVISION 3 10-17-17

PV-411

SHEET 1 of 2

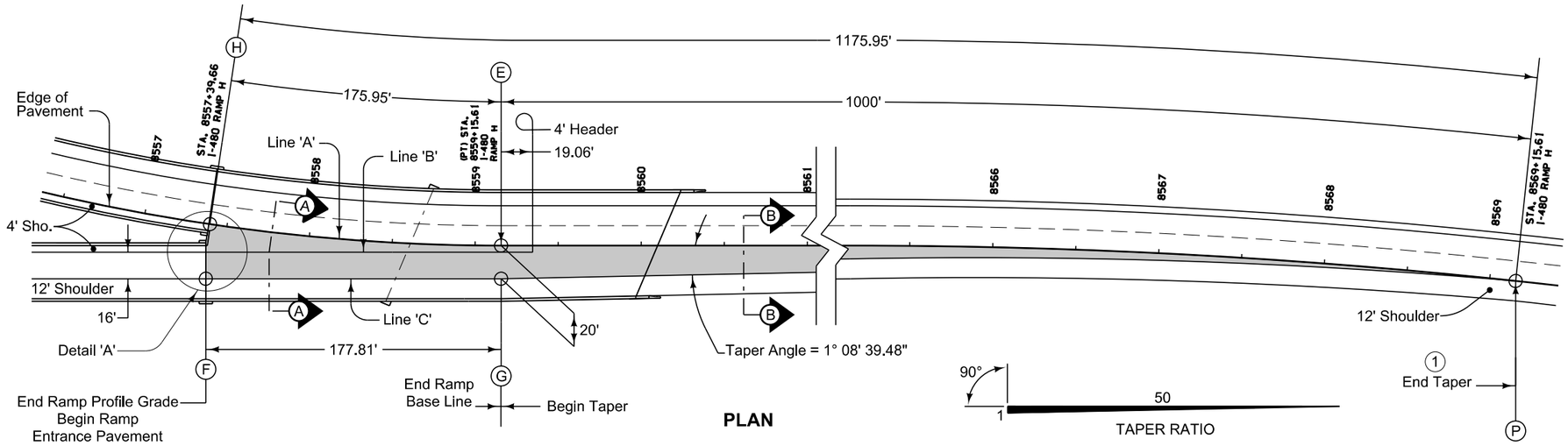
MODIFICATIONS: Revised plan view, offsets, and drops table, and selections to match conditions at Ramp D

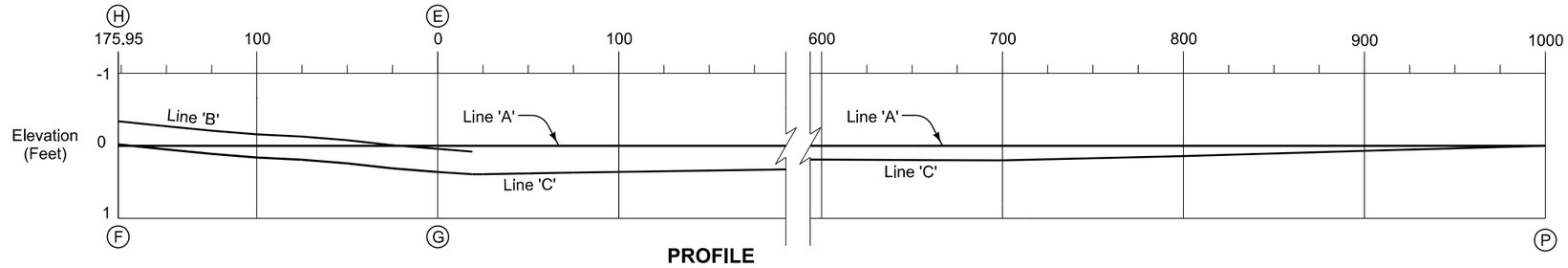
APPROVED BY DESIGN METHODS ENGINEER

9TH AVE. RAMP D TO I-480 RAMP H 16' ENTRANCE RAMP

FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER U.6

3:58:51 PM 10/26/2017 mplummer pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\78029166-U.sht





Points on bridge shown for information only. See Bridge Plans.

Construct ramp entrance pavement the same thickness as mainline pavement.

Ramp entrance pavement shown by shaded area is 1591 square yards.

See L-Sheets for jointing details

(1) For header construction details at the end of taper, see Typical 7101 or Typical 7102.

(2) Construct subbase for ramp entrance pavement the same thickness as mainline subbase.

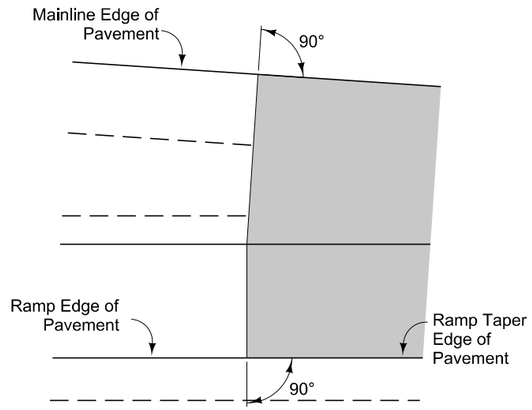
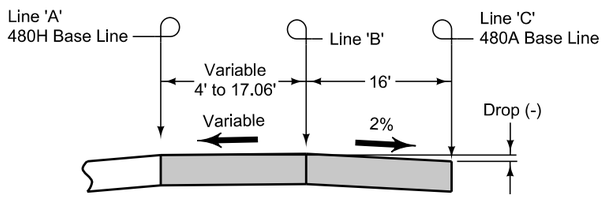
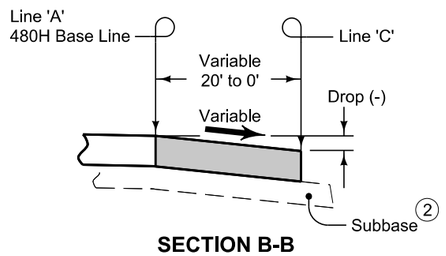


TABLE OF OFFSETS AND DROPS FOR 16' RAMP TAPER

Distance From Point (E) Along Line 'A' (Ft.)		175.95	150	125	100	75	50	25	0	19.06	25	50	75	100	200	300	400	500	600	700	800	900	1000
From Line 'A' To Line 'B'	Offset (Ft.)	17.06	13.47	10.56	8.19	6.36	5.05	4.26	4.0														
	Slope (%)	← Constant -2.0% Slope →					-1.60	-0.30	1.01														
	Drop (Ft.)	-0.34	-0.27	-0.21	-0.16	-0.13	-0.08	-0.01	0.04														
From Line 'B' To Line 'C'	Offset (Ft.)	← Constant 16.0' Offset →																					
	Slope (%)	← Constant 2.0% Slope →																					
	Drop (Ft.)	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32														
From Line 'A' To Line 'C'	Offset (Ft.)									19.62	19.50	19.00	18.50	18.00	16.00	14.00	12.00	10.00	8.00	6.00	4.00	2.00	0.00
	Slope (%)									2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.41	3.40	3.40	3.40	3.40
	Drop (Ft.)	-0.02	0.05	0.11	0.16	0.19	0.24	0.31	0.36	0.39	0.39	0.38	0.37	0.36	0.32	0.28	0.24	0.20	0.19	0.20	0.14	0.07	0.00
Distance From Point (G) Along Line 'C' (Ft.)		177.81	151.29	125.87	100.57	75.35	50.20	25.09	0.00														





MODIFIED STANDARD ROAD PLAN

REVISION 3 10-17-17

PV-411

SHEET 1 of 2

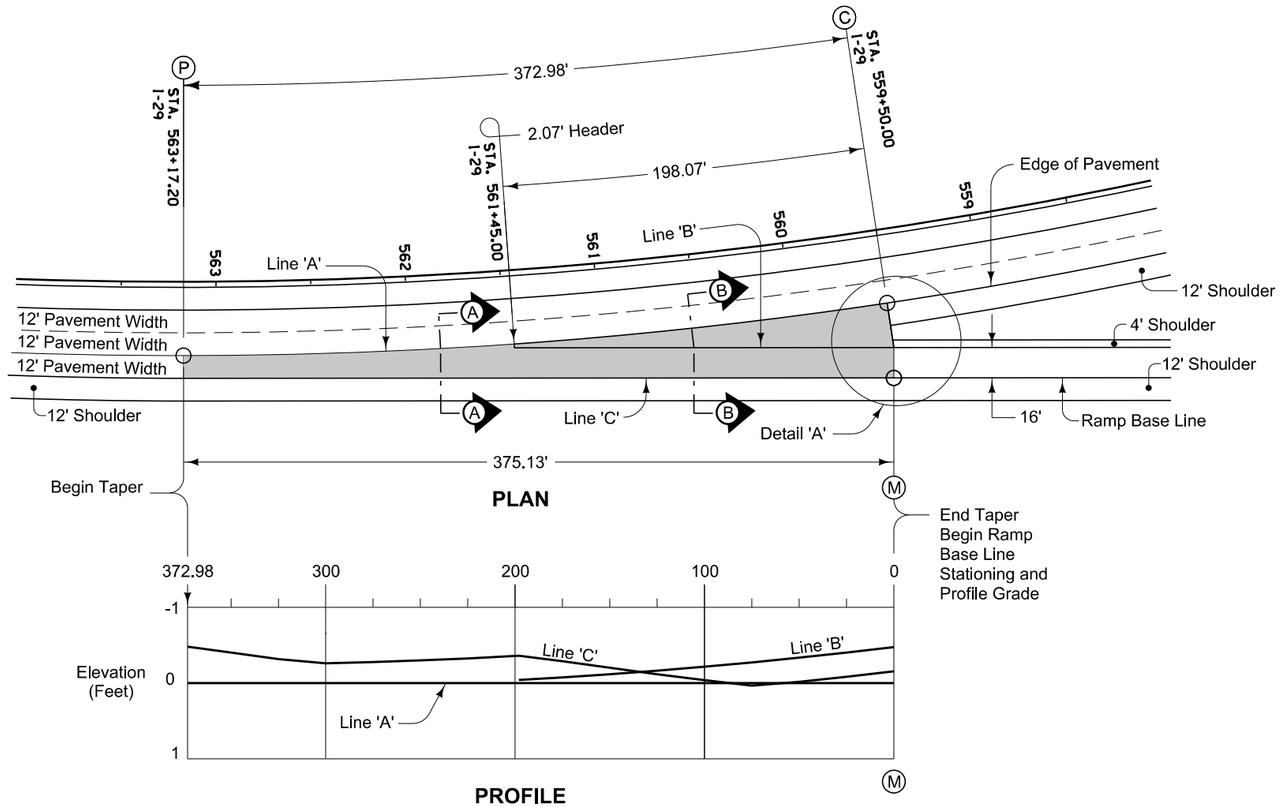
MODIFICATIONS: Revised plan view, offsets, and drops table, and selections to match conditions at Ramp A

APPROVED BY DESIGN METHODS ENGINEER

I-480 RAMP A TO WESTBOUND I-480 16' ENTRANCE RAMP

FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER U.7

3:58:52 PM 10/26/2017 mplummer pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\78029166-U.sht

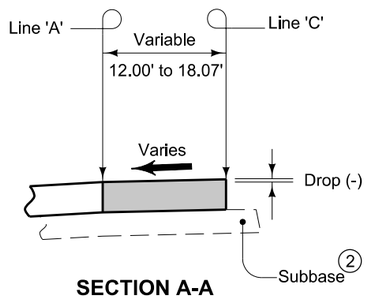


PLAN

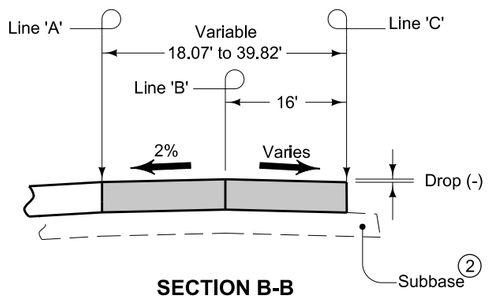
PROFILE

TABLE OF OFFSETS AND DROPS FOR 16' RAMP TAPER																	
Distance From Point Ⓒ Along Line 'A' (Ft.)		372.98	350	325	300	275	250	225	198.07	175	150	125	100	75	50	25	0
From Line 'A' To Line 'B'	Offset (Ft.)								2.07	3.79	5.89	8.24	10.84	13.70	16.82	20.19	23.82
	Slope (%)								← Constant -2.0% Slope →								
	Drop (Ft.)								-0.04	-0.08	-0.12	-0.17	-0.22	-0.28	-0.34	-0.40	-0.48
From Line 'B' To Line 'C'	Offset (Ft.)								← Constant 16' Offset →								
	Slope (%)								-2.00	-1.33	-0.53	0.29	1.10	1.92	2.00	2.00	2.00
	Drop (Ft.)								-0.32	-0.21	-0.08	0.05	0.18	0.31	0.32	0.32	0.32
From Line 'A' To Line 'C'	Offset (Ft.)	12.00	12.10	12.46	13.06	13.91	15.00	16.35									
	Slope (%)	-4.00	-3.34	-2.55	← Constant -2.0% Slope →												
	Drop (Ft.)	-0.48	-0.40	-0.32	-0.26	-0.28	-0.30	-0.33	-0.36	-0.29	-0.20	-0.12	-0.04	0.03	-0.02	-0.08	-0.16
Distance From Point Ⓜ Along Line 'C' (Ft.)		375.13	352.15	327.16	302.16	277.24	252.20	227.24	200.36	177.06	151.92	126.74	101.51	76.23	50.89	25.48	0.00

Ⓟ Ⓒ Ⓜ



SECTION A-A



SECTION B-B

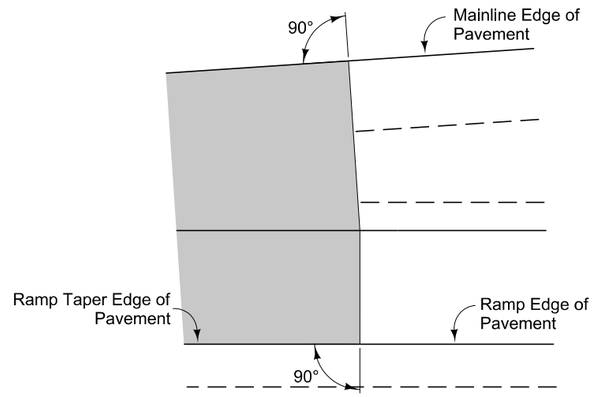
Construct ramp exit pavement the same thickness as mainline pavement.

Ramp exit pavement shown by shaded area is 885 square yards.

See L-Sheets for jointing details

For header construction details at the beginning of taper, see Typical 7101 or Typical 7102.

② Construct subbase for ramp exit pavement the same thickness as mainline subbase.



DETAIL A

MODIFIED

STANDARD ROAD PLAN

REVISION 3 10-17-17

PV-410

SHEET 1 of 2

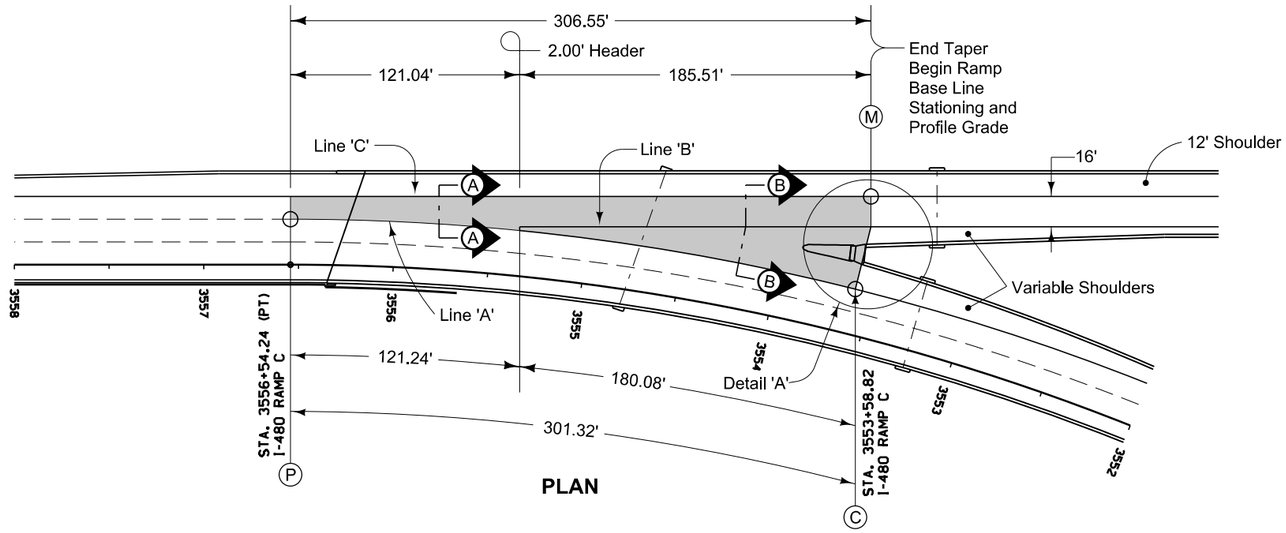
MODIFICATIONS: Revised plan view, offsets, and drops table, and selections to match conditions at Ramp A

APPROVED BY DESIGN METHODS ENGINEER

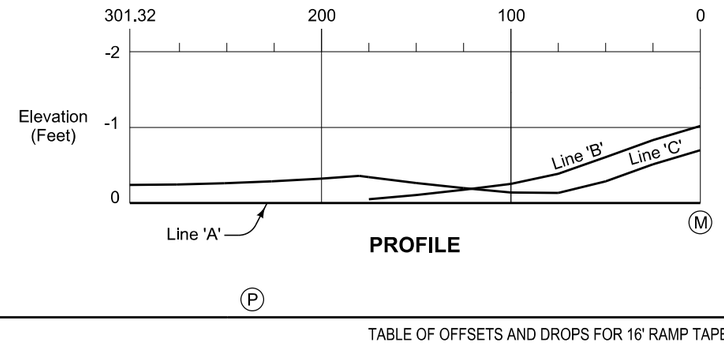
SOUTHBOUND I-29 TO I-480 RAMP A 16' EXIT RAMP

FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER U.8

3:58:54 PM 10/26/2017 mplummer pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\78029166-U.sht

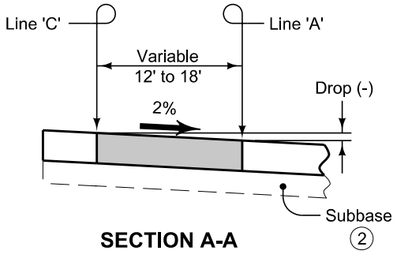


PLAN

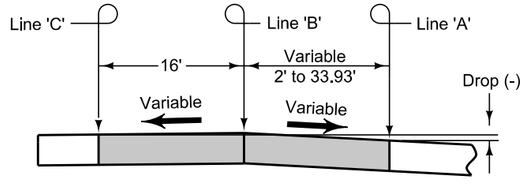


PROFILE

TABLE OF OFFSETS AND DROPS FOR 16' RAMP TAPER															
Distance From Point Ⓒ Along Line 'A' (Ft.)		301.32	275	250	225	200	180.08	175	150	125	100	75	50	25	0
From Line 'A' To Line 'B'	Offset (Ft.)							2.53	5.38	8.77	12.69	17.16	22.18	27.76	33.93
	Slope (%)							← Constant -2.0% Slope →				-2.25	-2.74	-3.00	-3.00
	Drop (Ft.)							-0.05	-0.11	-0.18	-0.25	-0.39	-0.61	-0.83	-1.02
From Line 'B' To Line 'C'	Offset (Ft.)							← Constant 16.0' Offset →							
	Slope (%)							-1.82	-0.98	-0.14	0.71	1.57	2.00	2.00	2.00
	Drop (Ft.)							-0.29	-0.16	-0.02	0.11	0.25	0.32	0.32	0.32
From Line 'A' To Line 'C'	Offset (Ft.)	12.00	12.28	13.08	14.38	16.19	18.00								
	Slope (%)	← Constant -2.0% Slope →													
	Drop (Ft.)	-0.24	-0.25	-0.26	-0.29	-0.32	-0.36	-0.34	-0.26	-0.20	-0.14	-0.13	-0.29	-0.51	-0.70
Distance From Point Ⓜ Along Line 'C' (Ft.)		306.55	280.24	255.25	230.28	205.35	185.51	180.20	154.95	129.58	104.06	78.37	52.47	26.36	0.00



SECTION A-A



SECTION B-B

Points on bridge shown for information only. See Bridge Plans.

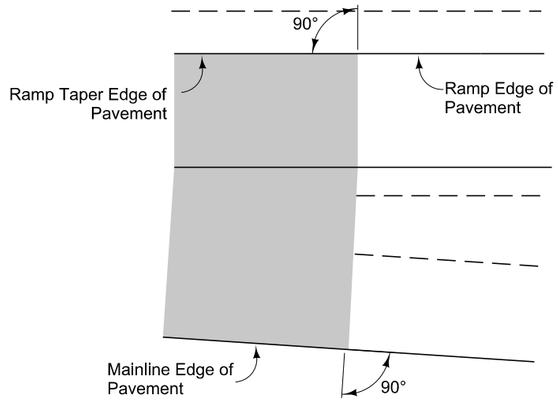
Construct ramp exit pavement the same thickness as mainline pavement.

Ramp exit pavement shown by shaded area is 833 square yards.

See L-Sheets for jointing details

For header construction details at the beginning of taper, see Typical 7101 or Typical 7102.

(2) Construct subbase for ramp exit pavement the same thickness as mainline subbase.



DETAIL A

MODIFIED

STANDARD ROAD PLAN

REVISION	
3	10-17-17

PV-410

SHEET 1 of 2

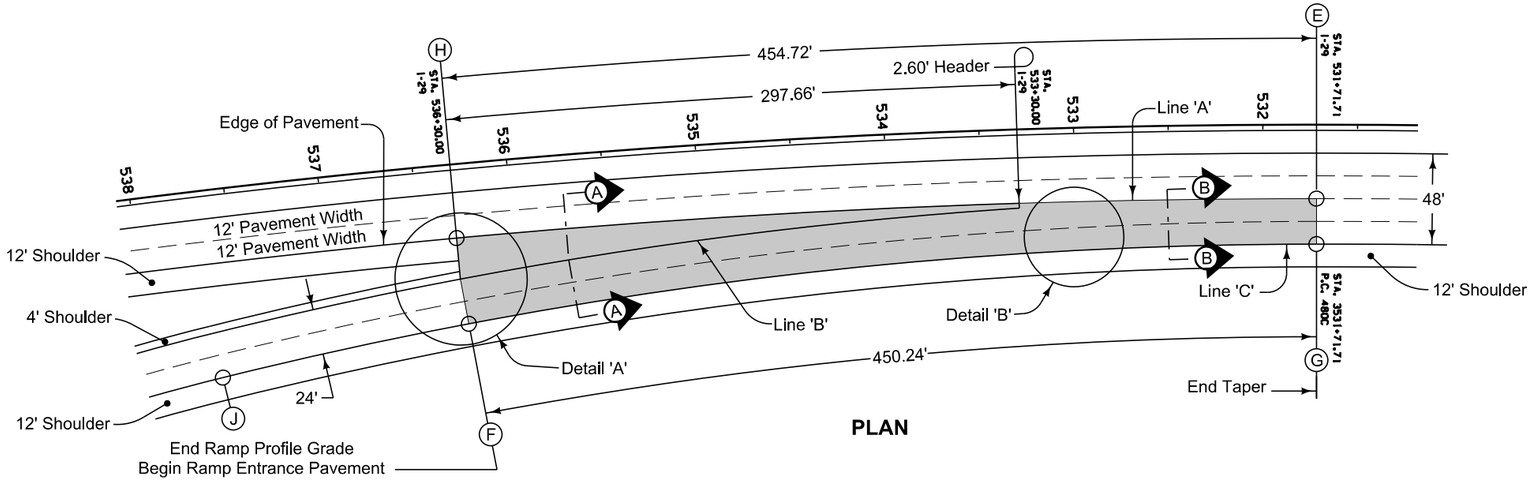
MODIFICATIONS: Revised plan view, offsets, and drops table, and selections to match conditions at Ramp F

APPROVED BY DESIGN METHODS ENGINEER

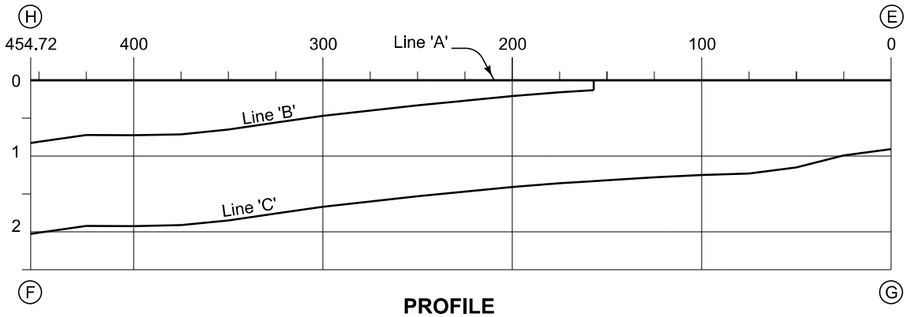
EASTBOUND I-480 TO I-480 RAMP F 16' EXIT RAMP

FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER U.9

3:58:55 PM 10/26/2017 mplummer pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\78029166-U.sht



PLAN



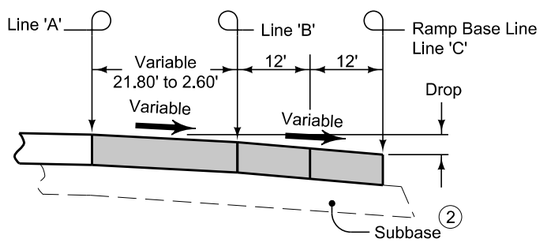
PROFILE

Pt. 'J' to Pt. 'G'
△ = 13° 55' 24.97"
T = 293.06'
L = 583.23'
E = 17.83'
R = 2400.00'

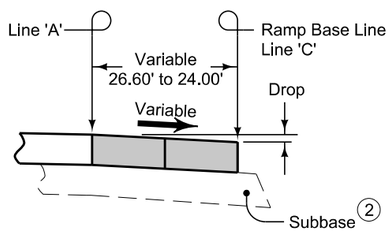
H E

		TABLE OF OFFSETS AND DROPS FOR 24' RAMP GORE																			
Distance From Point (E) Along Line 'A' (Ft.)		454.72	450	425	400	375	350	325	300	275	250	225	200	175	157.06	150	125	100	75	50	25	0
From Line 'A' To Line 'B'	Offset (Ft.)	21.80	21.35	19.04	16.87	14.83	12.92	11.14	9.49	7.98	6.59	5.34	4.22	3.23	2.60							
	Slope (%)	3.80	3.80	3.80	4.30	4.81	← Constant 5.0% Slope →															
	Drop (Ft.)	0.83	0.81	0.72	0.73	0.71	0.65	0.56	0.47	0.40	0.33	0.27	0.21	0.16	0.13							
From Line 'B' To Line 'C'	Offset (Ft.)	← Constant 24.0' Offset →																				
	Slope (%)	← Constant 5.0% Slope →																				
	Drop (Ft.)	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20							
From Line 'A' To Line 'C'	Offset (Ft.)															26.37	25.65	25.05	24.59	24.26	24.07	24.00
	Slope (%)															5.00	5.00	5.00	5.00	4.74	4.12	3.80
	Drop (Ft.)	2.03	2.01	1.92	1.93	1.91	1.85	1.76	1.67	1.60	1.53	1.47	1.41	1.36	1.33	1.32	1.28	1.25	1.23	1.15	0.99	0.91
Distance From Point (G) Along Line 'C' (Ft.)		450.24	445.57	420.82	396.06	371.30	346.55	321.79	297.04	272.28	247.53	222.78	198.02	173.27	155.42	148.44	123.72	98.99	74.25	49.50	24.75	0.00

F G



SECTION A-A



SECTION B-B

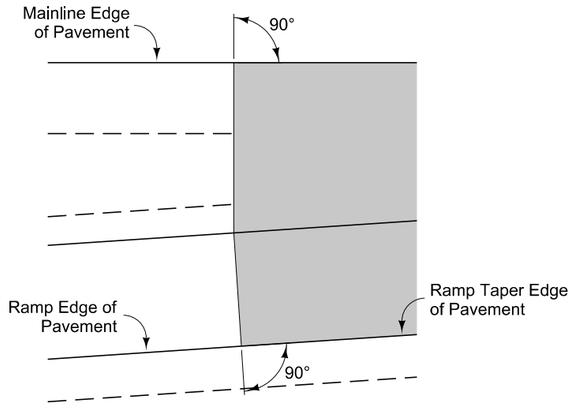
Construct ramp entrance pavement the same thickness as mainline pavement.

Ramp entrance pavement shown by shaded area is 1573 square yards.

See L-Sheets for jointing details.

For header construction details at the end of taper, see Typical 7101 or Typical 7102.

(2) Construct subbase for ramp entrance pavement the same thickness as mainline subbase.



DETAIL A

MODIFIED STANDARD ROAD PLAN

REVISION 3 10-17-17

PV-411

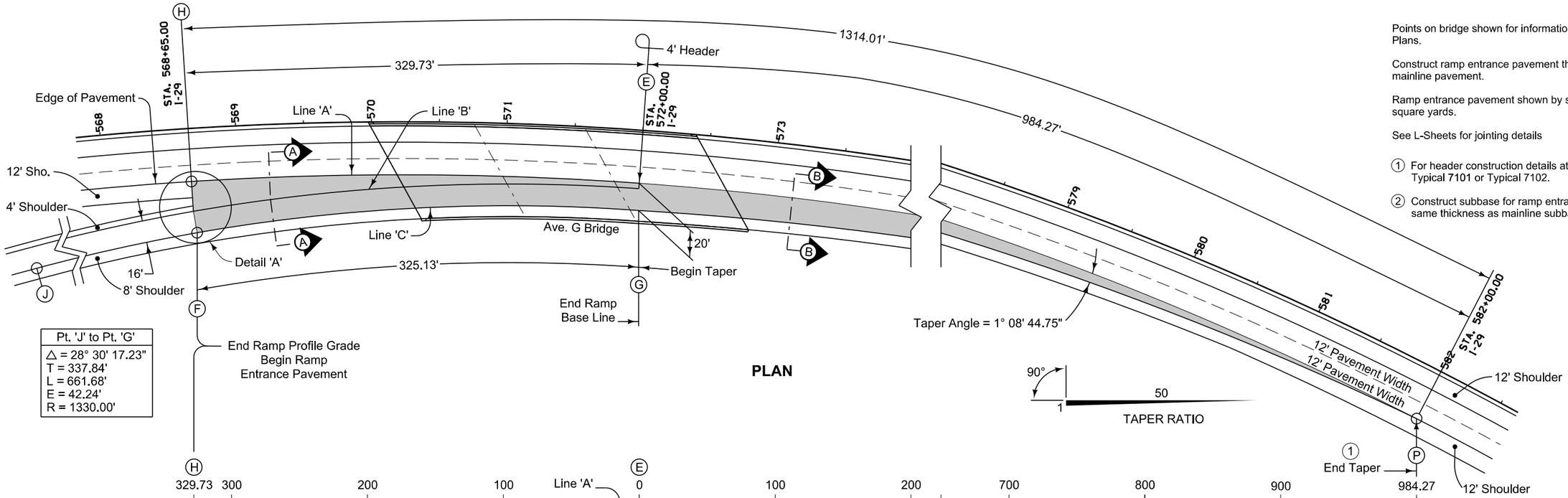
SHEET 1 of 2

MODIFICATIONS: Revised plan view, offsets, and drops table, and selections to match Ramp C.

APPROVED BY DESIGN METHODS ENGINEER

I-480 RAMP C TO SOUTHBOUND I-29 24' ENTRANCE RAMP

FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER U.10



PLAN

Points on bridge shown for information only. See Bridge Plans.

Construct ramp entrance pavement the same thickness as mainline pavement.

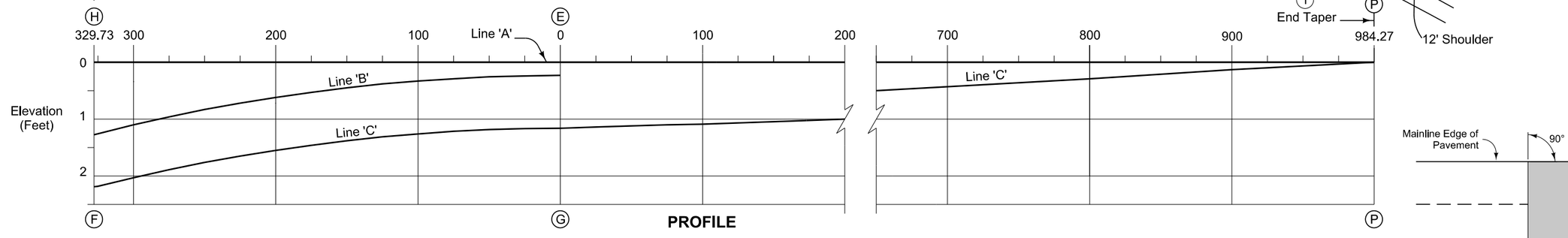
Ramp entrance pavement shown by shaded area is 2183 square yards.

See L-Sheets for jointing details

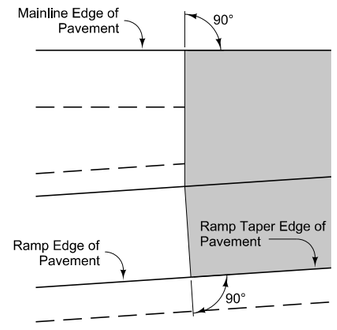
(1) For header construction details at the end of taper, see Typical 7101 or Typical 7102.

(2) Construct subbase for ramp entrance pavement the same thickness as mainline subbase.

Pt. 'J' to Pt. 'G'
△ = 28° 30' 17.23"
T = 337.84'
L = 661.68'
E = 42.24'
R = 1330.00'

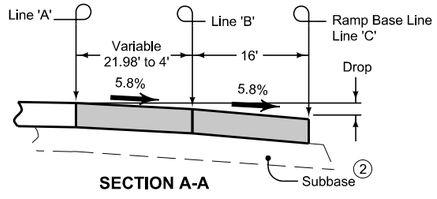


PROFILE

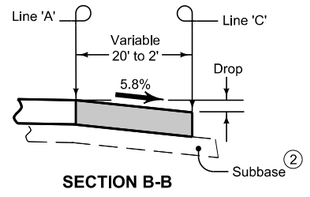


DETAIL A

		TABLE OF OFFSETS AND DROPS FOR 16' RAMP TAPER																										
Distance From Point (E) Along Line 'A' (Ft.)		329.73	325	300	275	250	225	200	175	150	125	100	75	50	25	0	25	50	75	100	200	300	400	500	600	700	800	900	984.27
From Line 'A' To Line 'B'	Offset (Ft.)	21.98	21.47	18.89	16.52	14.35	12.38	10.62	9.07	7.73	6.59	5.66	4.93	4.41	4.10	4.00													
	Slope (%)	← Constant 5.8% Slope →																										
	Drop (Ft.)	1.27	1.25	1.10	0.96	0.83	0.72	0.62	0.53	0.45	0.38	0.33	0.29	0.26	0.24	0.23													
From Line 'B' To Line 'C'	Offset (Ft.)	← Constant 16.0' Offset →																										
	Slope (%)	← Constant 5.8% Slope →																										
	Drop (Ft.)	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93													
From Line 'A' To Line 'C'	Offset (Ft.)																19.70	19.38	19.05	18.71	17.25	15.62	13.81	11.84	9.70	7.40	4.94	2.32	0.00
	Slope (%)																← Constant 5.8% Slope →												
	Drop (Ft.)	2.20	2.17	2.02	1.89	1.76	1.65	1.54	1.45	1.38	1.31	1.26	1.21	1.18	1.17	1.16	1.14	1.12	1.10	1.09	1.00	0.91	0.80	0.69	0.56	0.43	0.29	0.13	0.0
Distance From Point (G) Along Line 'C' (Ft.)		325.13	320.46	295.83	271.20	246.56	221.91	197.26	172.61	147.96	123.30	98.65	73.99	49.32	24.66	0.00													
		F														G												P



SECTION A-A



SECTION B-B

MODIFIED

STANDARD ROAD PLAN

REVISION	
3	10-17-17

PV-411

SHEET 1 of 2

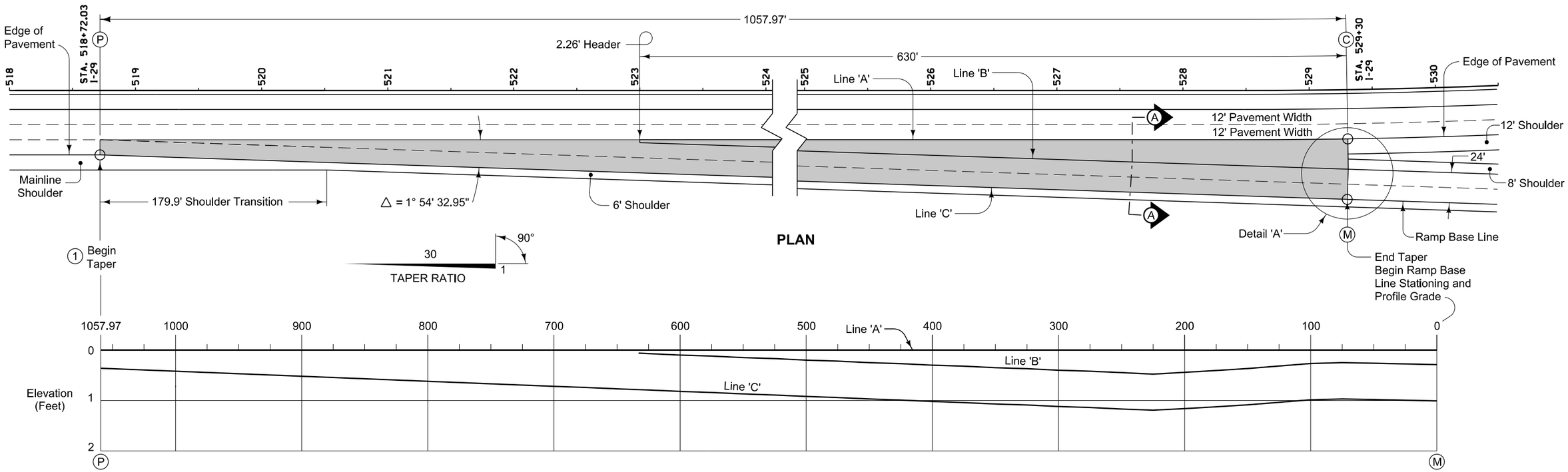
MODIFICATIONS: Revised plan view, offsets, and drops table, and selections to match conditions at Ramp F

APPROVED BY DESIGN METHODS ENGINEER

I-480 RAMP F TO NORTHBOUND I-29 16' ENTRANCE RAMP

FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER U.11

3:58:58 PM 10/26/2017 mplummer pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\78029166-U.sht

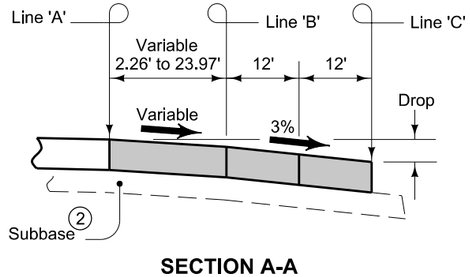


C

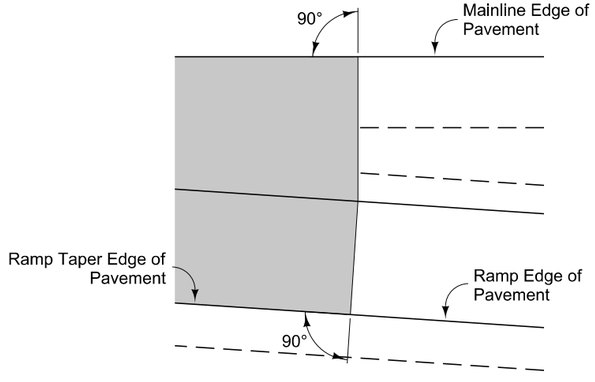
TABLE OF OFFSETS AND DROPS FOR 24' RAMP TAPER

Distance From Point (C) Along Line 'A' (Ft.)		1057.97	1050	1000	950	900	850	800	750	700	650	630	600	575	550	525	500	475	450	425	400	375	350	325	300	275	250	225	200	175	150	125	100	75	50	25	0
From Line 'A' To Line 'B'	Offset (Ft.)											2.26	3.26	4.09	4.93	5.76	6.59	7.43	8.26	9.09	9.93	10.76	11.59	12.43	13.26	14.09	14.93	15.76	16.59	17.43	18.26	19.09	19.93	20.77	21.71	22.78	23.97
	Slope (%)											← Constant 3.0% Slope →																2.99	2.66	2.33	2.00	1.66	1.33	← Constant 1.2% Slope →			
	Drop (Ft.)											0.07	0.10	0.12	0.15	0.17	0.20	0.22	0.25	0.27	0.30	0.32	0.35	0.37	0.40	0.42	0.45	0.47	0.44	0.41	0.37	0.32	0.27	0.25	0.26	0.27	0.29
From Line 'B' To Line 'C'	Offset (Ft.)											← Constant 24.0' Offset →																									
	Slope (%)											← Constant 3.0% Slope →																									
	Drop (Ft.)											0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72
From Line 'A' To Line 'C'	Offset (Ft.)	12.00	12.27	13.94	15.61	17.27	18.94	20.61	22.27	23.94	25.61																										
	Slope (%)	← Constant 3.0% Slope →																																			
	Drop (Ft.)	0.36	0.37	0.42	0.47	0.52	0.57	0.62	0.67	0.72	0.77	0.79	0.82	0.84	0.87	0.89	0.92	0.94	0.97	0.99	1.02	1.04	1.07	1.09	1.12	1.14	1.17	1.19	1.16	1.13	1.09	1.04	0.99	0.97	0.98	0.99	1.01

P M



SECTION A-A



DETAIL A

Construct ramp entrance pavement the same thickness as mainline pavement.

Ramp entrance pavement shown by shaded area is 3490 square yards.

See L-Sheets for jointing details.

For header construction details at the end of taper, see Typical 7101 or Typical 7102.

(2) Construct subbase for ramp entrance pavement the same thickness as mainline subbase.

MODIFIED

STANDARD ROAD PLAN

REVISION	
3	10-17-17

PV-410

SHEET 1 of 2

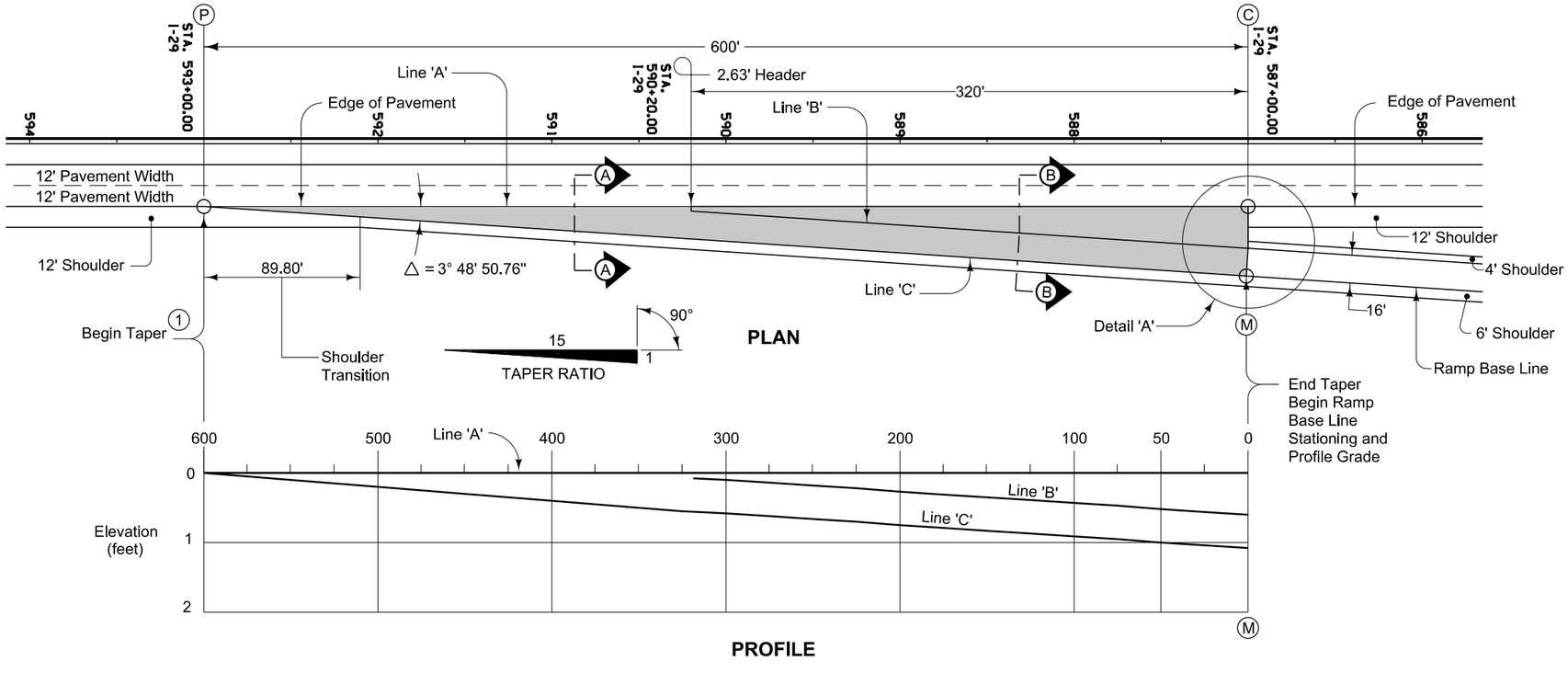
MODIFICATIONS: Revised plan view, offsets, and drops table, and selections to match Ramp H.

APPROVED BY DESIGN METHODS ENGINEER

NORTHBOUND I-29 TO I-480 RAMP H 24' EXIT RAMP

FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER U.12

3:58:59 PM 10/26/2017 mplummer pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\78029166-U.sht



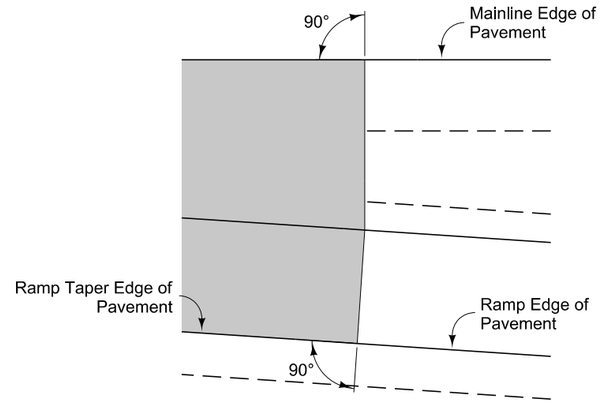
Construct ramp exit pavement the same thickness as mainline pavement.

Ramp exit pavement shown by shaded area is 1332 square yards.

See L-Sheets for jointing details

(1) For header construction details at the beginning of taper, see Typical 7101 or Typical 7102.

(2) Construct subbase for ramp exit pavement the same thickness as mainline subbase.



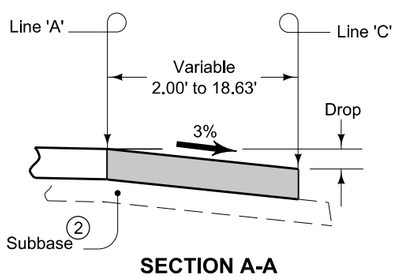
DETAIL A

TABLE OF OFFSETS AND DROPS FOR 16' RAMP TAPER

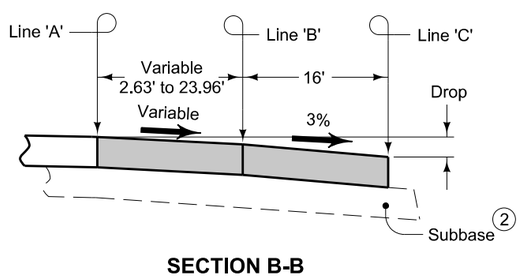
DISTANCE FROM POINT (C) ALONG LINE 'A' (Ft.)		600	575	550	525	500	475	450	425	400	375	350	325	320	300	275	250	225	200	175	150	125	100	75	50	25	0
From Line 'A' To Line 'B'	OFFSET (Ft.)														3.96	5.63	7.30	8.96	10.63	12.30	13.96	15.63	17.30	18.96	20.63	22.30	23.96
	SLOPE (%)														3.00	3.00	3.00	← Constant 2.5% Slope →									
	DROP (Ft.)														0.12	0.17	0.19	0.22	0.27	0.31	0.35	0.39	0.43	0.47	0.52	0.56	0.60
From Line 'B' To Line 'C'	OFFSET (Ft.)														← Constant 16' Offset →												
	SLOPE (%)														← Constant 3.0% Slope →												
	DROP (Ft.)														0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48
From Line 'A' To Line 'C'	OFFSET (Ft.)	0	1.67	3.33	5.00	6.67	8.33	10.00	11.67	13.33	15.00	16.67	18.33	18.67													
	SLOPE (%)	← Constant 3.0% Slope →																									
	DROP (Ft.)	0	0.05	0.10	0.15	0.20	0.25	0.30	0.35	0.40	0.45	0.50	0.55	0.56	0.60	0.65	0.67	0.70	0.75	0.79	0.83	0.87	0.91	0.95	1.00	1.04	1.08

(C)

(M)



SECTION A-A



SECTION B-B

MODIFIED

STANDARD ROAD PLAN

REVISION	
3	10-17-17

PV-410

SHEET 1 of 2

MODIFICATIONS: Revised plan view, offsets, and drop table, and selections to match conditions at Ramp A

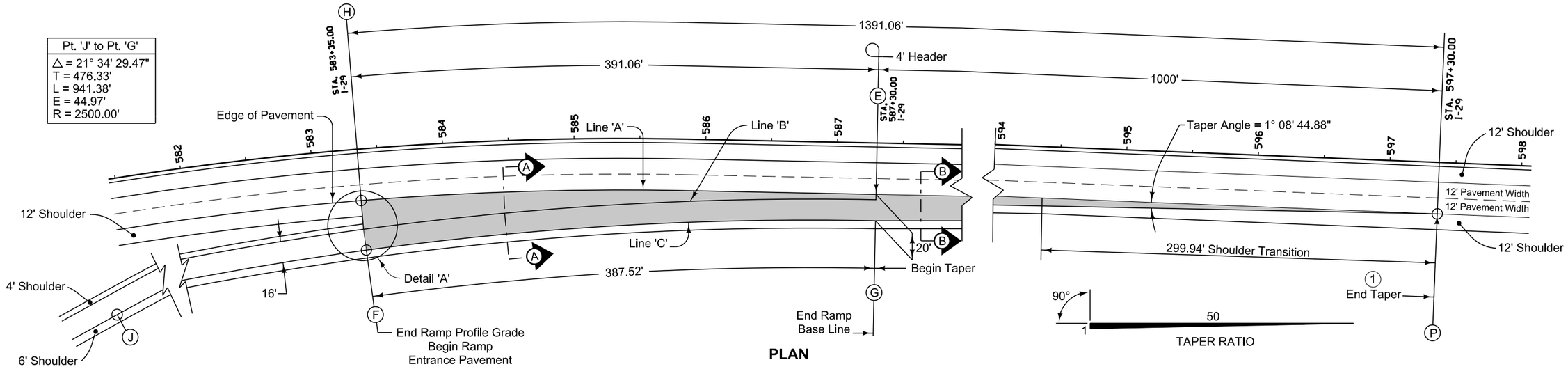
APPROVED BY DESIGN METHODS ENGINEER

SOUTHBOUND I-29 TO AVE. G RAMP A 16' EXIT RAMP

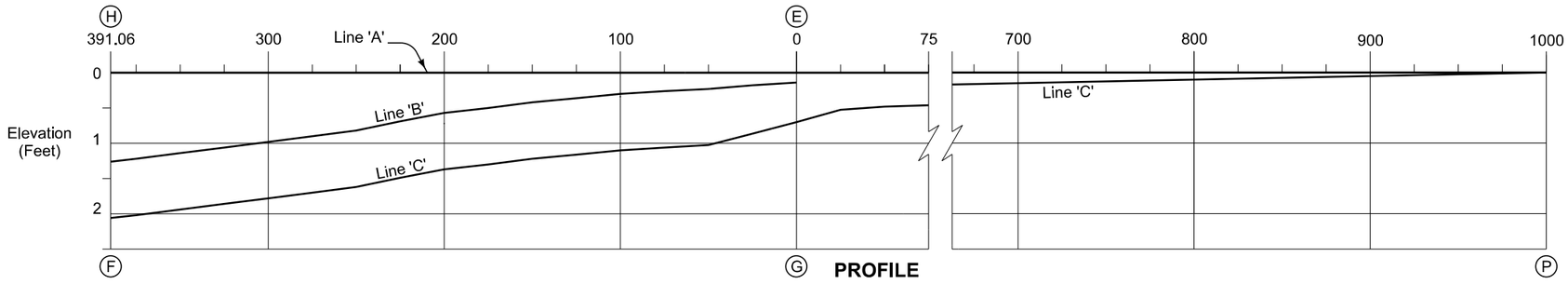
FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER U.13

3:59:01 PM 10/26/2017 mplummer pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\78029166-U.sht

Pt. 'J' to Pt. 'G'
△ = 21° 34' 29.47"
T = 476.33'
L = 941.38'
E = 44.97'
R = 2500.00'



PLAN

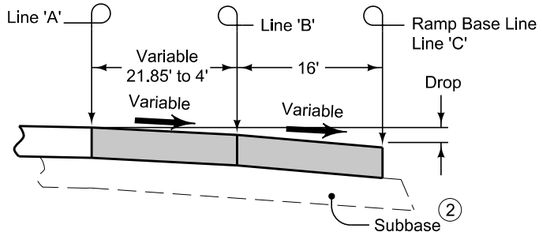


PROFILE

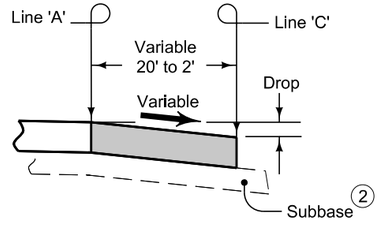
DETAIL A

		TABLE OF OFFSETS AND DROPS FOR 16' RAMP TAPER																												
Distance From Point (E) Along Line 'A' (Ft.)		391.06	375	350	325	300	275	250	225	200	175	150	125	100	75	50	25	0	25	50	75	100	200	300	400	500	600	700	800	900	1000
From Line 'A' To Line 'B'	Offset (Ft.)	21.85	20.99	19.63	18.27	16.90	15.52	14.13	12.73	11.32	9.90	8.47	7.11	5.99	5.12	4.50	4.12	4.00													
	Slope (%)	5.80	5.80	5.80	5.80	5.80	5.80	5.80	5.42	5.00	5.00	5.00	5.00	5.00	5.00	5.00	4.30	3.50													
	Drop (Ft.)	1.27	1.22	1.14	1.06	0.98	0.90	0.82	0.69	0.57	0.50	0.42	0.36	0.30	0.26	0.23	0.18	0.14													
From Line 'B' To Line 'C'	Offset (Ft.)	← Constant 16.0' Offset →																													
	Slope (%)	← Constant 5.0% Slope →															4.30	3.50													
	Drop (Ft.)	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.69	0.56													
From Line 'A' To Line 'C'	Offset (Ft.)																		19.50	19.00	18.50	18.00	16.00	14.00	12.00	10.00	8.00	6.00	4.00	2.00	0.00
	Slope (%)																		2.69	← Constant 2.5% Slope →											
	Drop (Ft.)	2.07	2.02	1.94	1.86	1.78	1.70	1.62	1.49	1.37	1.30	1.22	1.16	1.10	1.06	1.03	0.87	0.70	0.52	0.48	0.46	0.45	0.40	0.35	0.30	0.25	0.20	0.15	0.10	0.05	0.0
Distance From Point (G) Along Line 'C' (Ft.)		387.52	371.68	347.01	322.32	297.62	272.91	248.18	223.44	198.68	173.90	149.12	124.26	99.39	74.53	49.69	24.84	0.00													

(H) (E) (F) (G) (P)



SECTION A-A



SECTION B-B

Construct ramp entrance pavement the same thickness as mainline pavement.

Ramp entrance pavement shown by shaded area is 2300 square yards.

See L-Sheets for jointing details

(1) For header construction details at the end of taper, see Typical 7101 or Typical 7102.

(2) Construct subbase for ramp entrance pavement the same thickness as mainline subbase.

MODIFIED

STANDARD ROAD PLAN

REVISION	
3	10-17-17

PV-411

SHEET 1 of 2

MODIFICATIONS: Revised plan view, offsets, and drops tables, and selections to match conditions at Ramp D

APPROVED BY DESIGN METHODS ENGINEER

AVE. G RAMP D TO NORTHBOUND I-29 16' ENTRANCE RAMP

FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER U.14

3:59:02 PM 10/26/2017 mplummer pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\7802916 6-U.sht

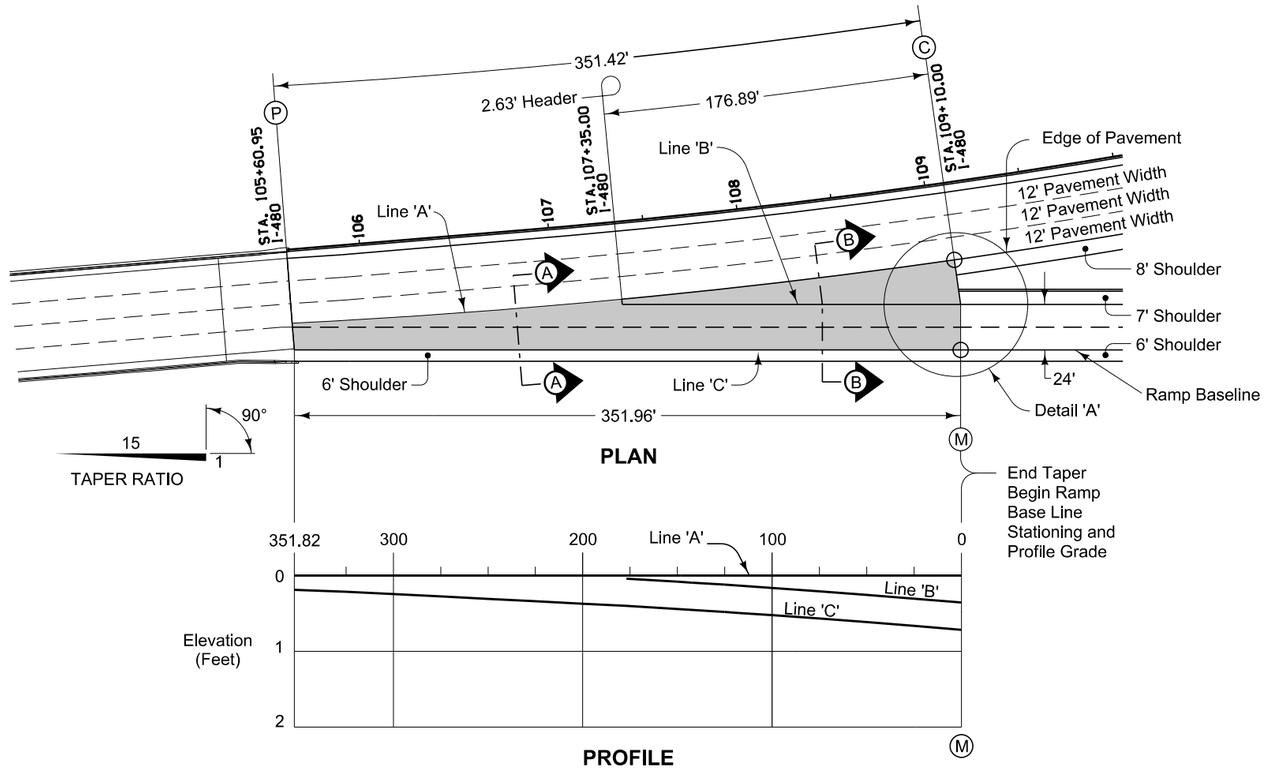
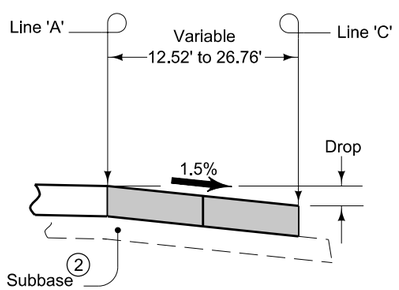
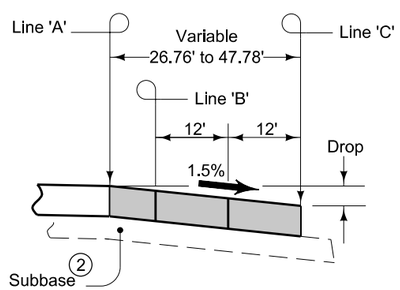


		TABLE OF OFFSETS AND DROPS FOR 24' RAMP TAPER															
Distance From Point (C) Along Line 'A' (Ft.)		351.42	350	325	300	275	250	225	200	176.89	150	125	100	75	50	25	0
From Line 'A' To Line 'B'	Offset (Ft.)									2.76	5.42	8.06	10.87	13.84	16.99	20.30	23.78
	Slope (%)									← Constant 1.5% Slope →							
	Drop (Ft.)									0.04	0.08	0.12	0.16	0.21	0.25	0.30	0.36
From Line 'B' To Line 'C'	Offset (Ft.)									← Constant 24.0' Offset →							
	Slope (%)									← Constant 1.5% Slope →							
	Drop (Ft.)									0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36
From Line 'A' To Line 'C'	Offset (Ft.)	12.52	12.61	14.26	16.32	18.41	20.49	22.57	24.73								
	Slope (%)	← Constant 1.5% Slope →															
	Drop (Ft.)	0.19	0.19	0.21	0.24	0.28	0.31	0.34	0.37	0.40	0.44	0.48	0.52	0.57	0.61	0.66	0.72
Distance From Point (M) Along Line 'C' (Ft.)		351.96	350.68	325.62	300.29	275.21	250.12	225.03	199.81	178.72	151.68	126.49	101.28	76.02	50.72	25.38	0.00



SECTION A-A



SECTION B-B

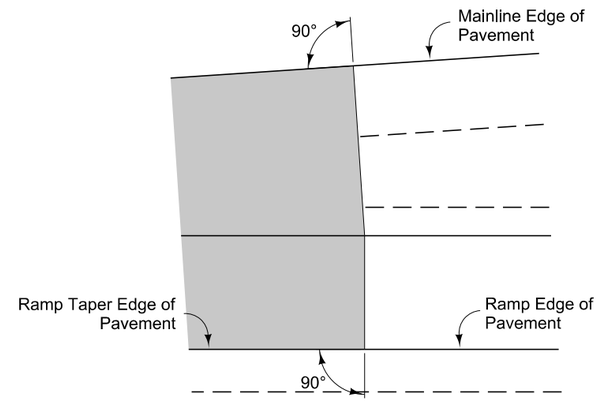
Construct ramp exit pavement the same thickness as mainline pavement.

Ramp exit pavement shown by shaded area is 1097 square yards.

For joint details, see L-Sheets for jointing details.

For header construction details, see Typical 7101 or Typical 7102.

(2) Construct subbase for ramp exit pavement the same thickness as mainline subbase.



DETAIL A

MODIFIED STANDARD ROAD PLAN

REVISION	
3	10-17-17

PV-410

SHEET 1 of 2

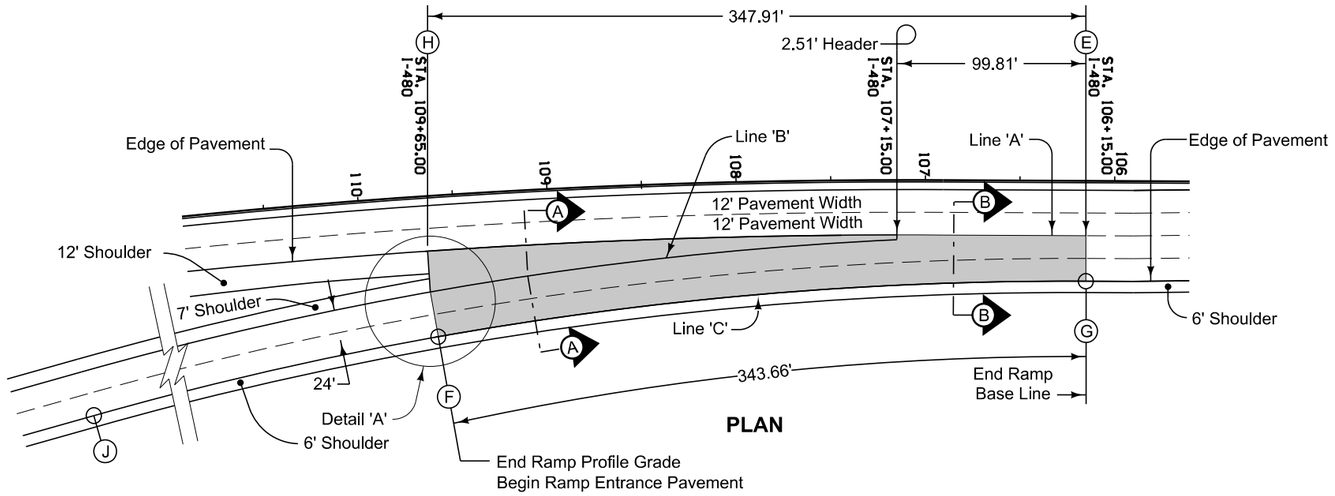
MODIFICATIONS: Revised plan view, offsets, and drops table, and selections to match conditions at Ramp B

APPROVED BY DESIGN METHODS ENGINEER

EASTBOUND I-480 TO 40TH ST. RAMP B 24' EXIT RAMP

FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER U.15

3:59:03 PM 10/26/2017 mplummer pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\78029166-U.sht



Pt. 'J' to Pt. 'G'
△ = 22° 08' 54.77"
T = 371.88'
L = 734.47'
E = 36.05'
R = 1900.00'

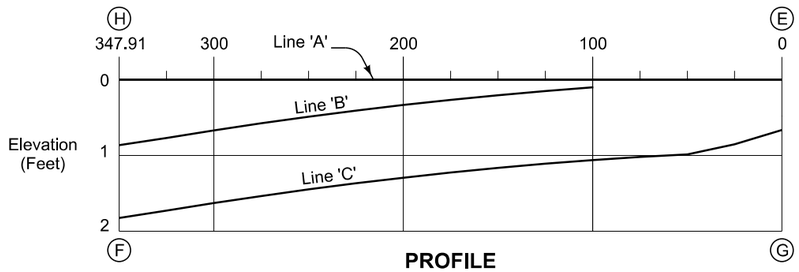
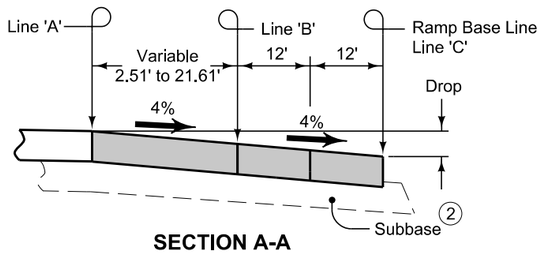
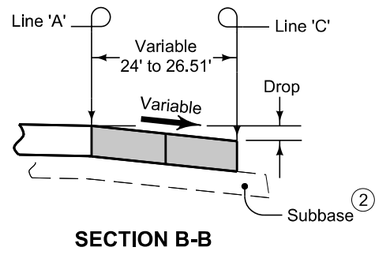


TABLE OF OFFSETS AND DROPS FOR 24' RAMP															
Distance From Point (E) Along Line 'A' (Ft.)		347.91	325	300	275	250	225	200	175	150	125	99.81	75	50	25	0
From Line 'A' To Line 'B'	Offset (Ft.)	21.61	19.20	16.71	14.38	12.21	10.20	8.34	6.65	5.11	3.74	2.51				
	Slope (%)	← Constant 4.0% Slope →														
	Drop (Ft.)	0.86	0.77	0.67	0.58	0.49	0.41	0.33	0.27	0.20	0.15	0.10				
From Line 'B' To Line 'C'	Offset (Ft.)	← Constant 24.0' Offset →														
	Slope (%)	← Constant 4.0% Slope →														
	Drop (Ft.)	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96				
From Line 'A' To Line 'C'	Offset (Ft.)												25.48	24.66	24.16	24.00
	Slope (%)												4.00	4.00	3.53	2.77
	Drop (Ft.)	1.82	1.73	1.63	1.54	1.45	1.37	1.29	1.23	1.16	1.11	1.06	1.02	0.99	0.85	0.66
Distance From Point (G) Along Line 'C' (Ft.)		343.66	321.04	296.35	271.65	246.96	222.26	197.57	172.87	148.17	123.48	98.60	75.02	50.01	25.00	0.00

H F E G



SECTION A-A



SECTION B-B

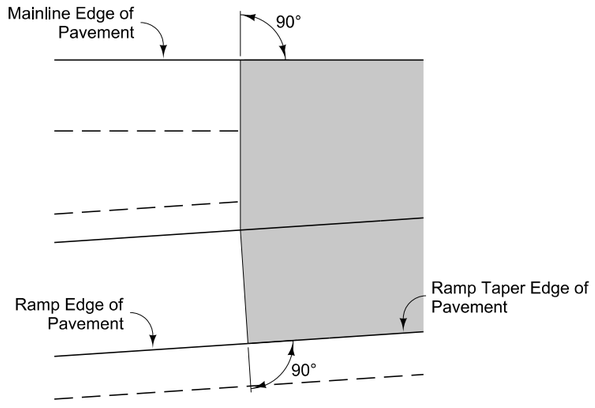
Construct ramp entrance pavement the same thickness as mainline pavement.

Ramp entrance pavement shown by shaded area is 1228 square yards.

See L-Sheets for jointing details

For header construction details at the end of taper, see Typical 7101 or Typical 7102.

(2) Construct subbase for ramp entrance pavement the same thickness as mainline subbase.



DETAIL A

MODIFIED

STANDARD ROAD PLAN

REVISION	
3	10-17-17

PV-411

SHEET 1 of 2

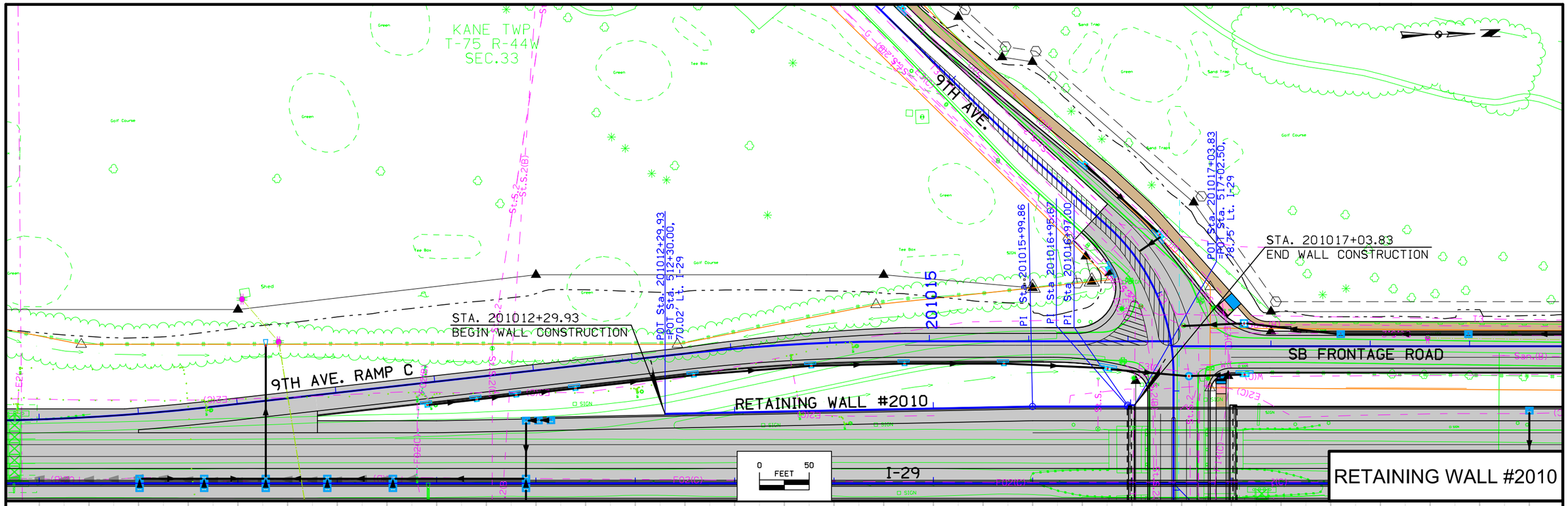
MODIFICATIONS: Revised plan view, offsets, and drops table, and selections to match conditions at Ramp C

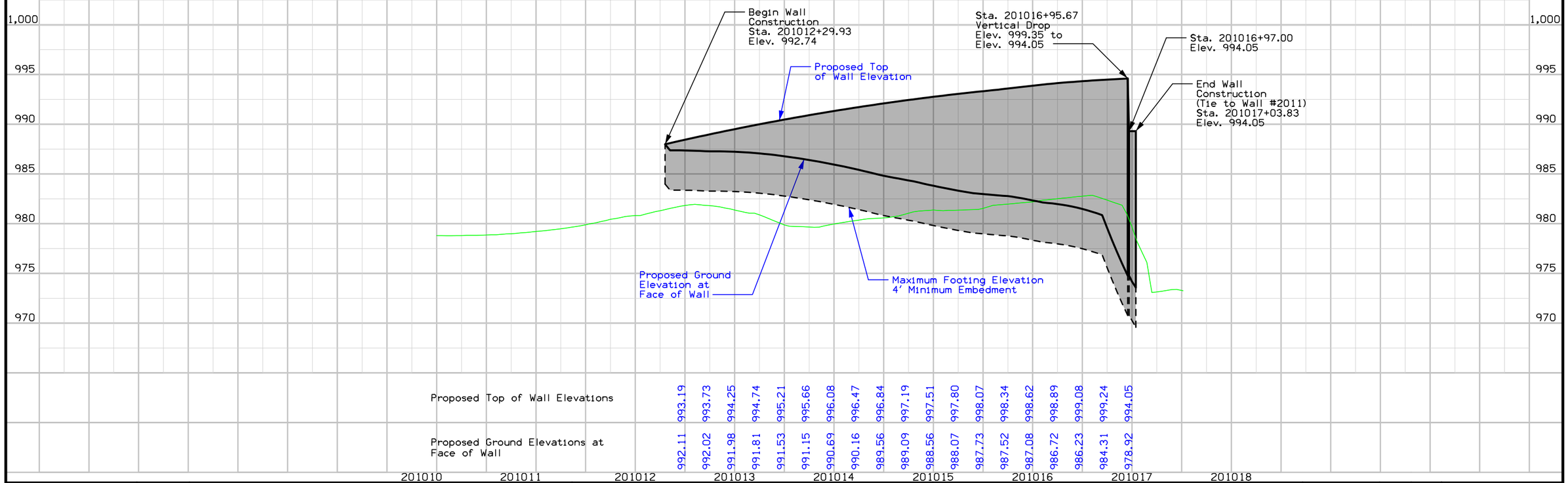
APPROVED BY DESIGN METHODS ENGINEER

40TH ST RAMP C TO WESTBOUND I-480 24' ENTRANCE RAMP

FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER U.16

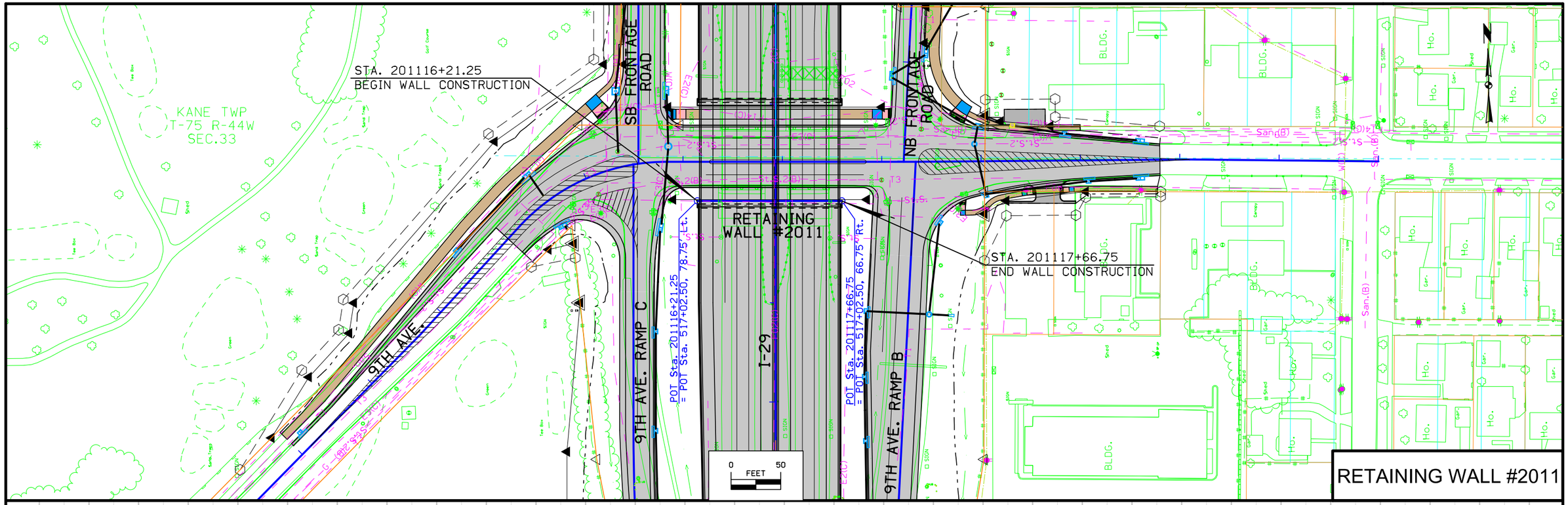
3:59:05 PM 10/26/2017 mplummer pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\78029166-U.sht

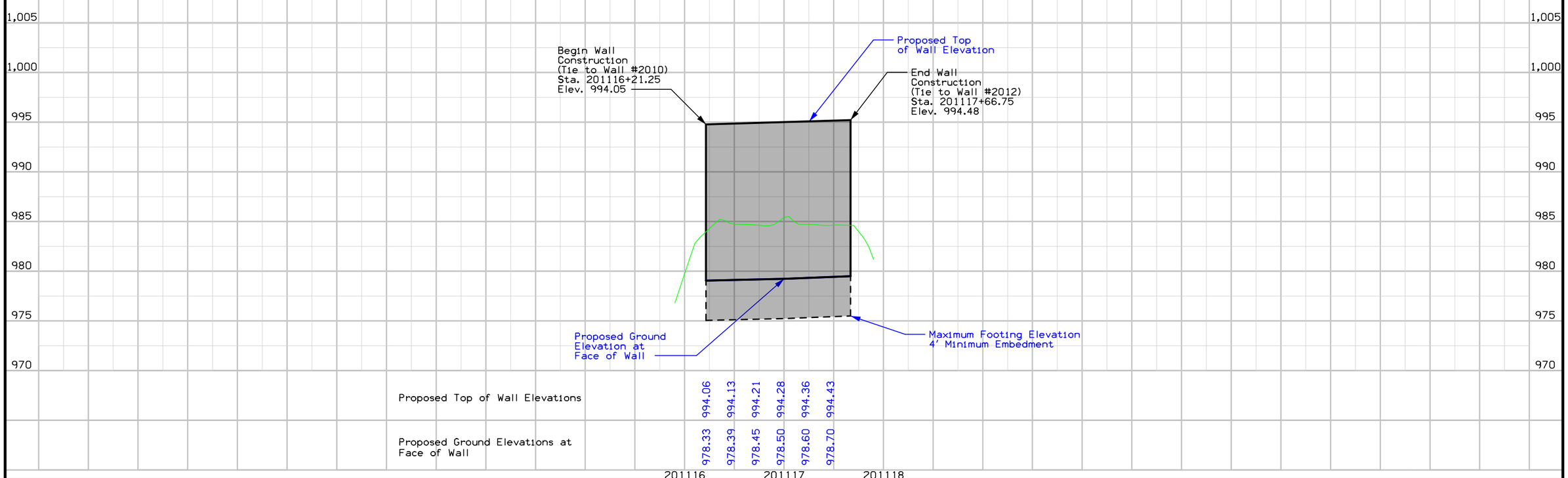




Proposed Top of Wall Elevations	993.19	993.73	994.25	994.74	995.21	995.66	996.08	996.47	996.84	997.19	997.51	997.80	998.07	998.34	998.62	998.89	999.08	999.24	994.05
Proposed Ground Elevations at Face of Wall	992.11	992.02	991.98	991.81	991.53	991.15	990.69	990.16	989.56	989.09	988.56	988.07	987.73	987.52	987.08	986.72	986.23	984.31	978.92

FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER V.39





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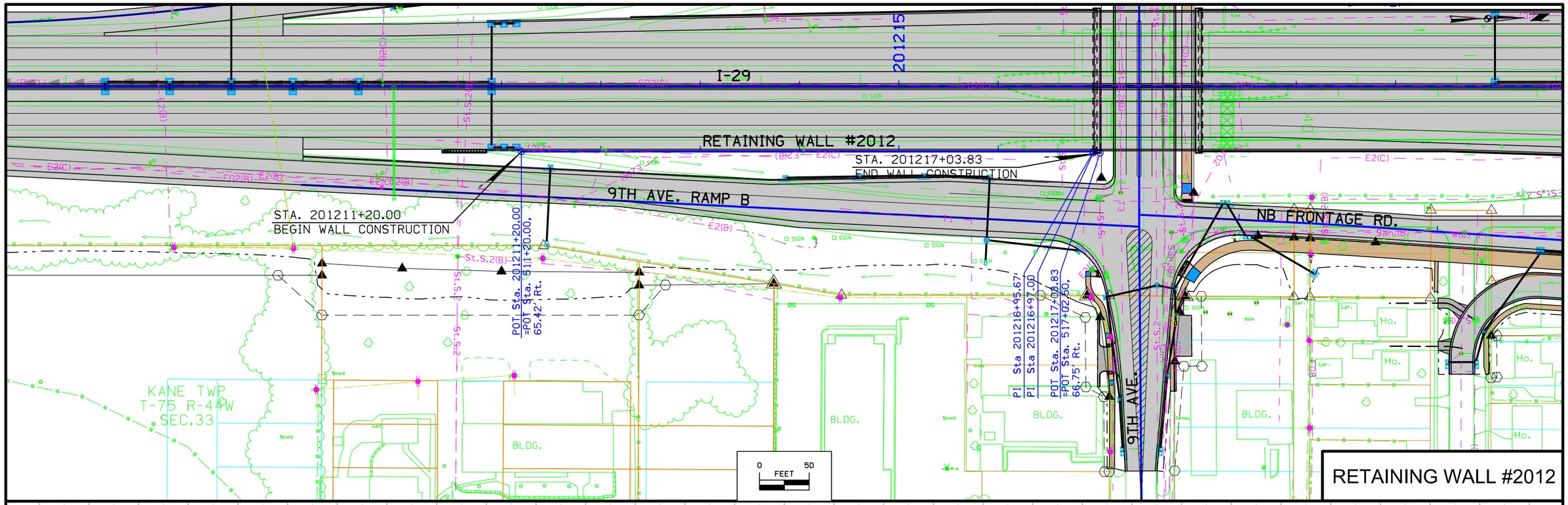
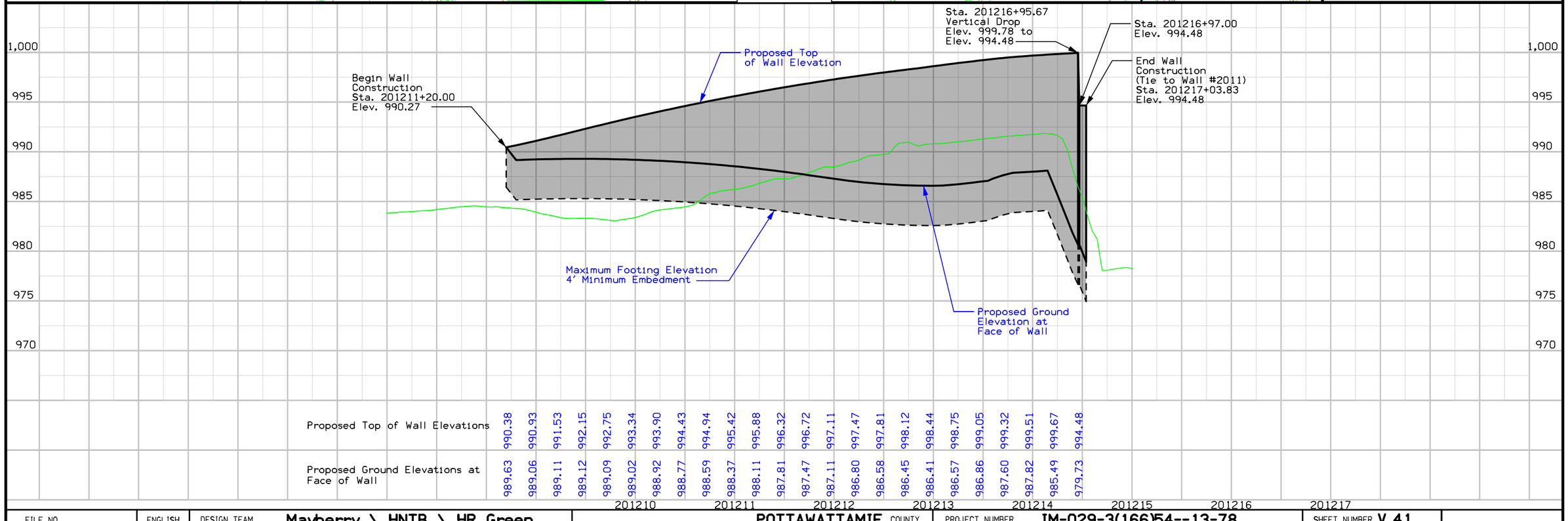
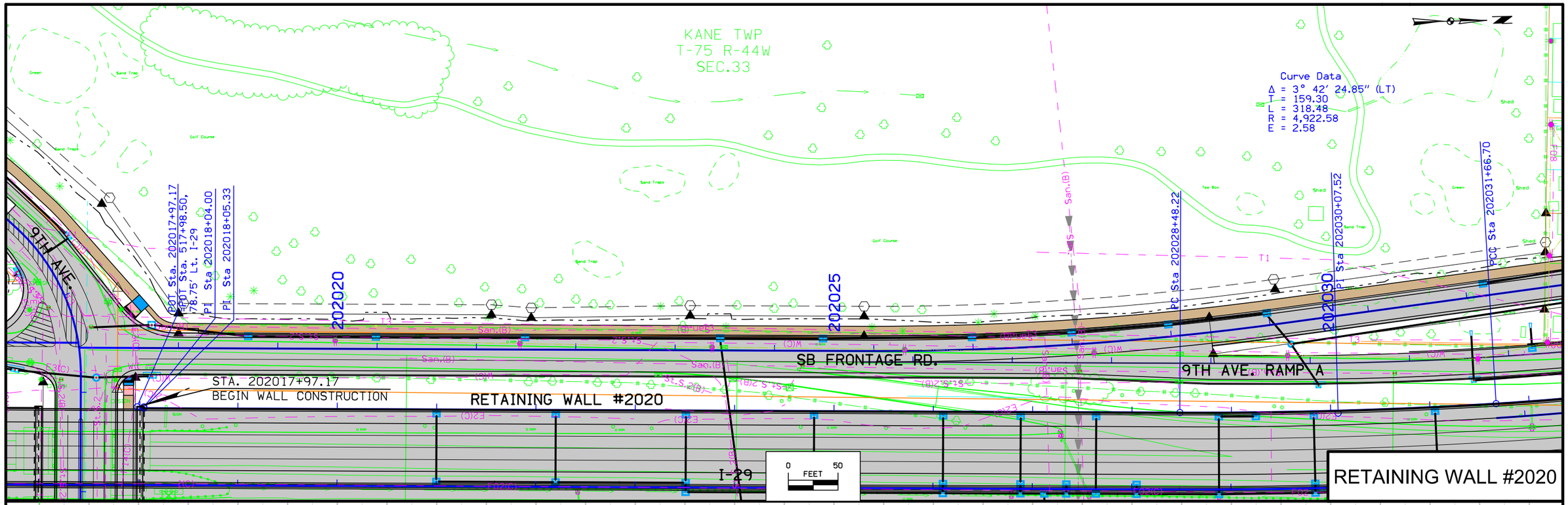
11:00:21 AM 10/26/2017 mplummer pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\78029166-V.sht

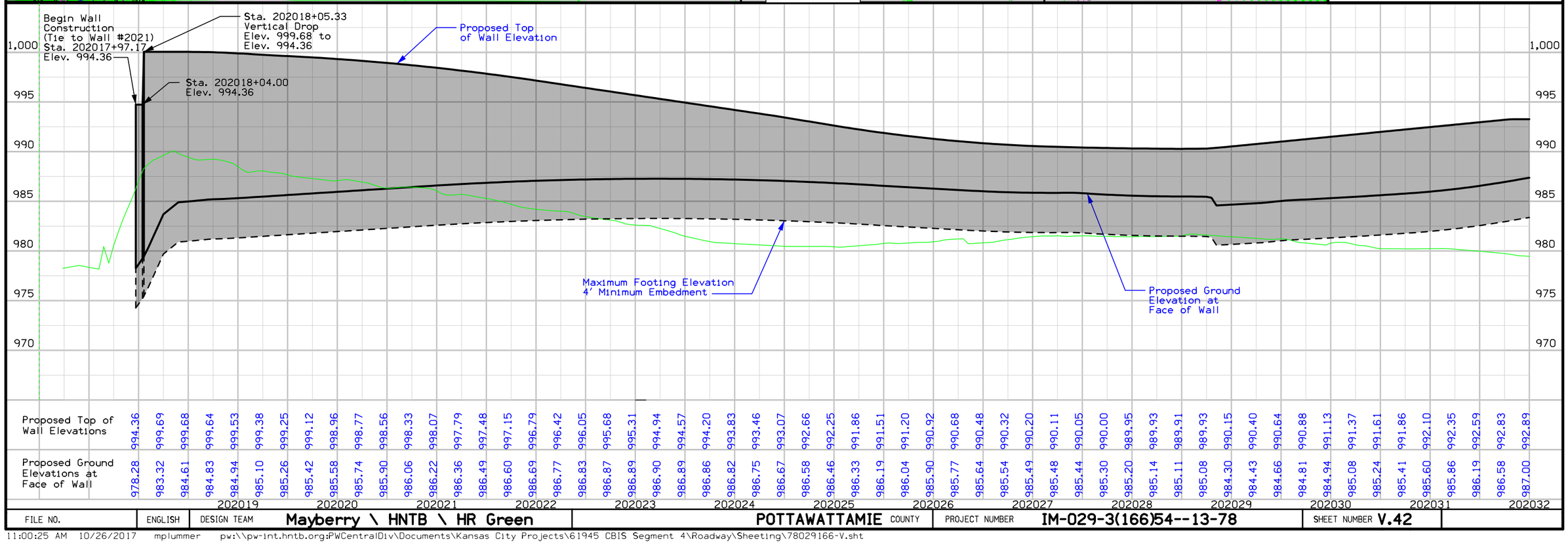




Proposed Top of Wall Elevations	990.38	990.93	991.53	992.15	992.75	993.34	993.90	994.43	994.94	995.42	995.88	996.32	996.72	997.11	997.47	997.81	998.12	998.44	998.75	999.05	999.32	999.51	999.67	994.48
Proposed Ground Elevations at Face of Wall	989.63	989.06	989.11	989.12	989.09	989.02	988.92	988.77	988.59	988.37	988.11	987.81	987.47	987.11	986.80	986.58	986.45	986.41	986.57	986.86	987.60	987.82	985.49	979.73

FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER V.41

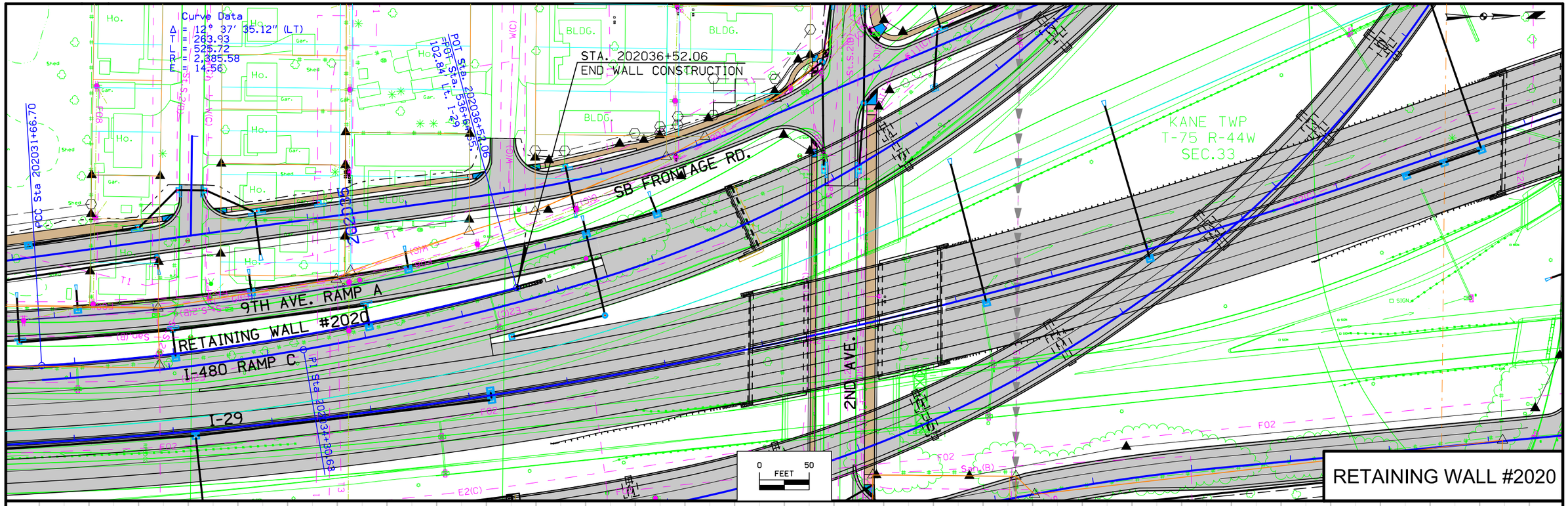


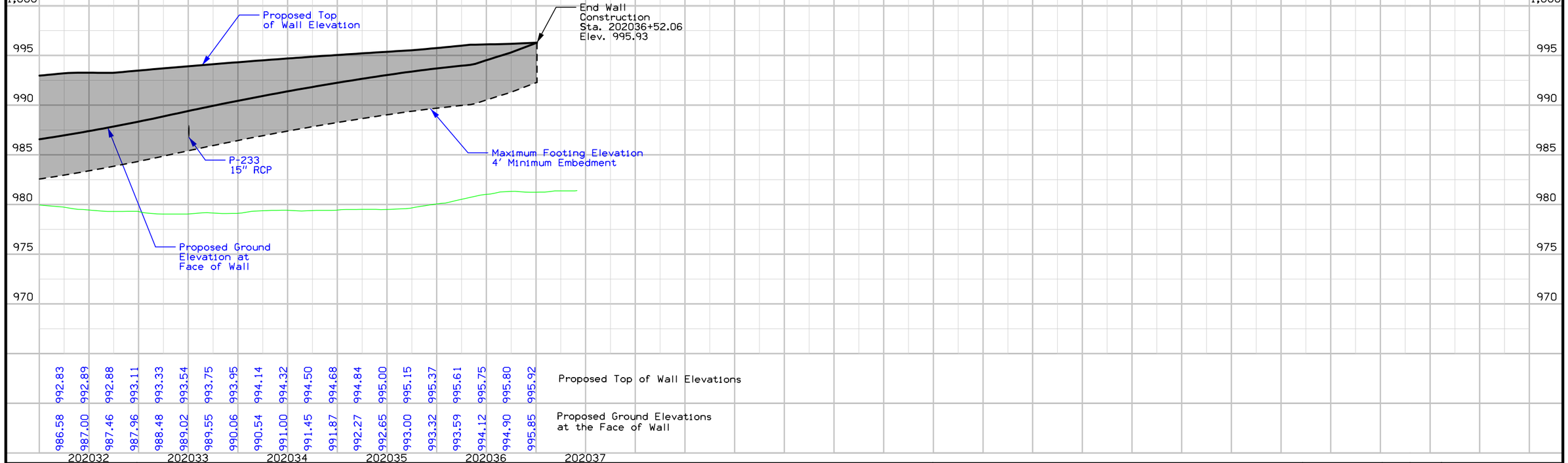


	202019	202020	202021	202022	202023	202024	202025	202026	202027	202028	202029	202030	202031	202032
Proposed Top of Wall Elevations	994.36	999.69	999.68	999.64	999.53	999.38	999.25	999.12	998.96	998.77	998.56	998.33	998.07	997.79
	997.48	997.15	996.79	996.42	996.05	995.68	995.31	994.94	994.57	994.20	993.83	993.46	993.07	992.66
	992.25	991.86	991.51	991.20	990.92	990.68	990.48	990.32	990.20	990.11	990.05	990.00	989.95	989.93
	989.91	989.93	990.15	990.40	990.64	990.88	991.13	991.37	991.61	991.86	992.10	992.35	992.59	992.83
Proposed Ground Elevations at Face of Wall	978.28	983.32	984.61	984.83	984.94	985.10	985.26	985.42	985.58	985.74	985.90	986.06	986.22	986.36
	986.49	986.60	986.69	986.77	986.83	986.87	986.89	986.90	986.89	986.86	986.82	986.75	986.67	986.58
	986.46	986.33	986.19	986.04	985.90	985.77	985.64	985.54	985.49	985.48	985.44	985.30	985.20	985.14
	985.11	985.08	984.30	984.43	984.66	984.81	984.94	985.08	985.24	985.41	985.60	985.86	986.19	986.58
	987.00													

FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER V.42

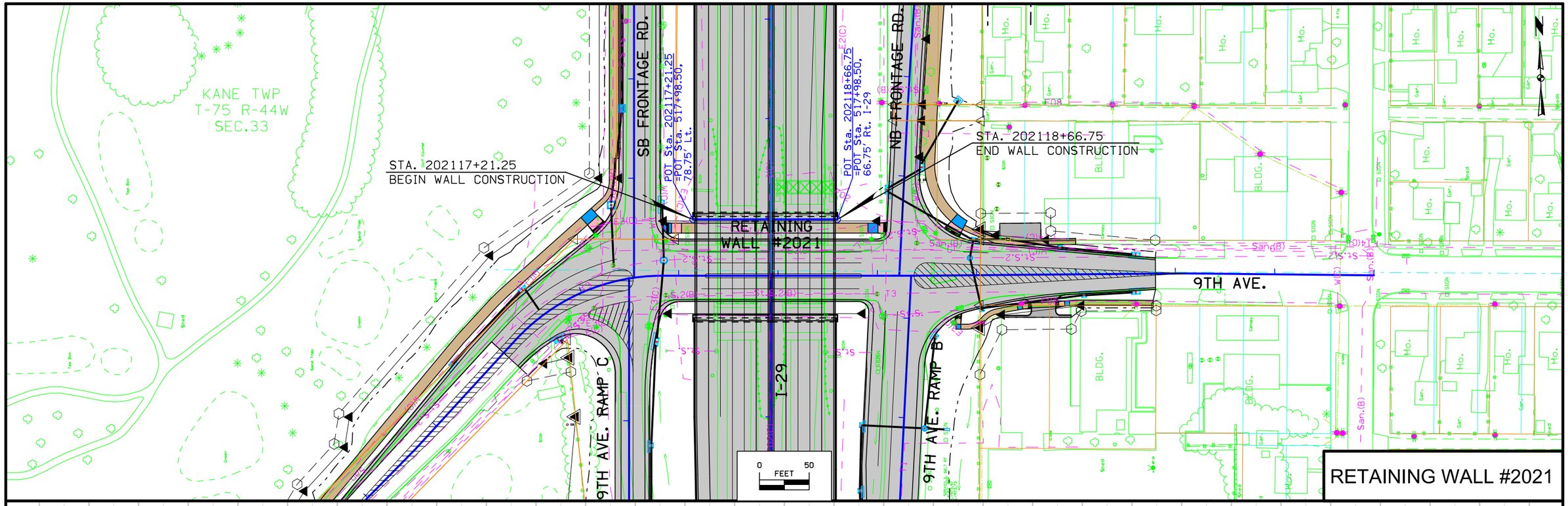
11:00:25 AM 10/26/2017 mplummer pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\78029166-V.sht

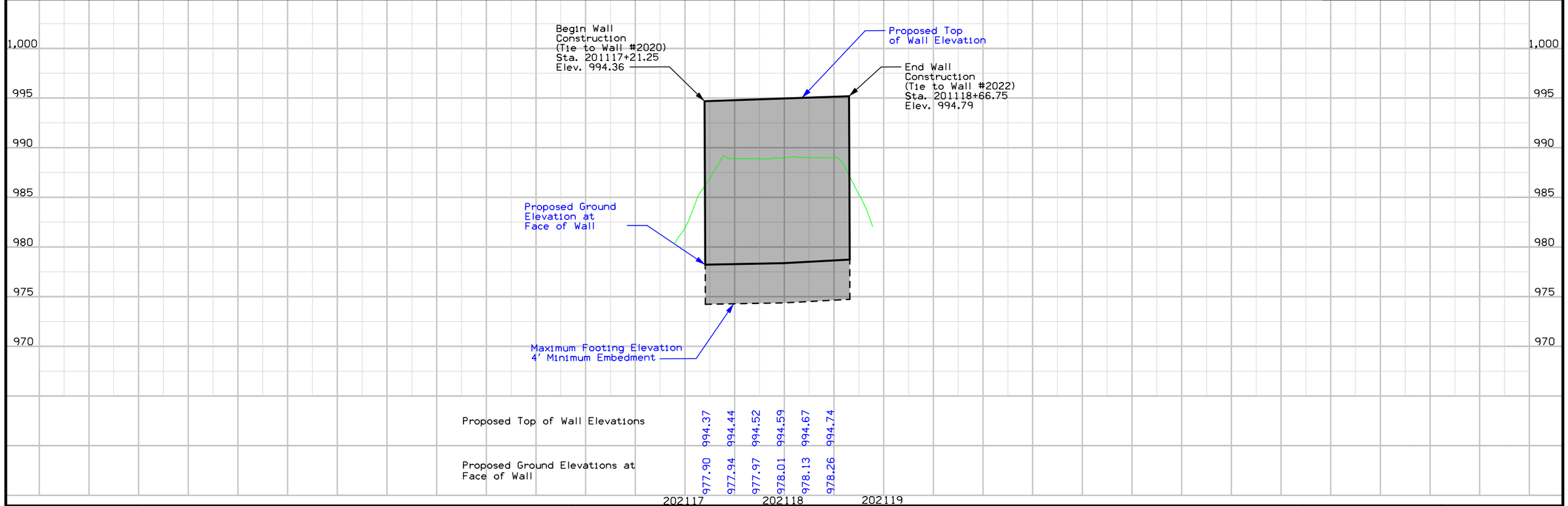




Proposed Top of Wall Elevations	992.83	992.89	992.88	993.11	993.33	993.54	993.75	993.95	994.14	994.32	994.50	994.68	994.84	995.00	995.15	995.37	995.61	995.75	995.80	995.92
Proposed Ground Elevations at the Face of Wall	986.58	987.00	987.46	987.96	988.48	989.02	989.55	990.06	990.54	991.00	991.45	991.87	992.27	992.65	993.00	993.32	993.59	994.12	994.90	995.85

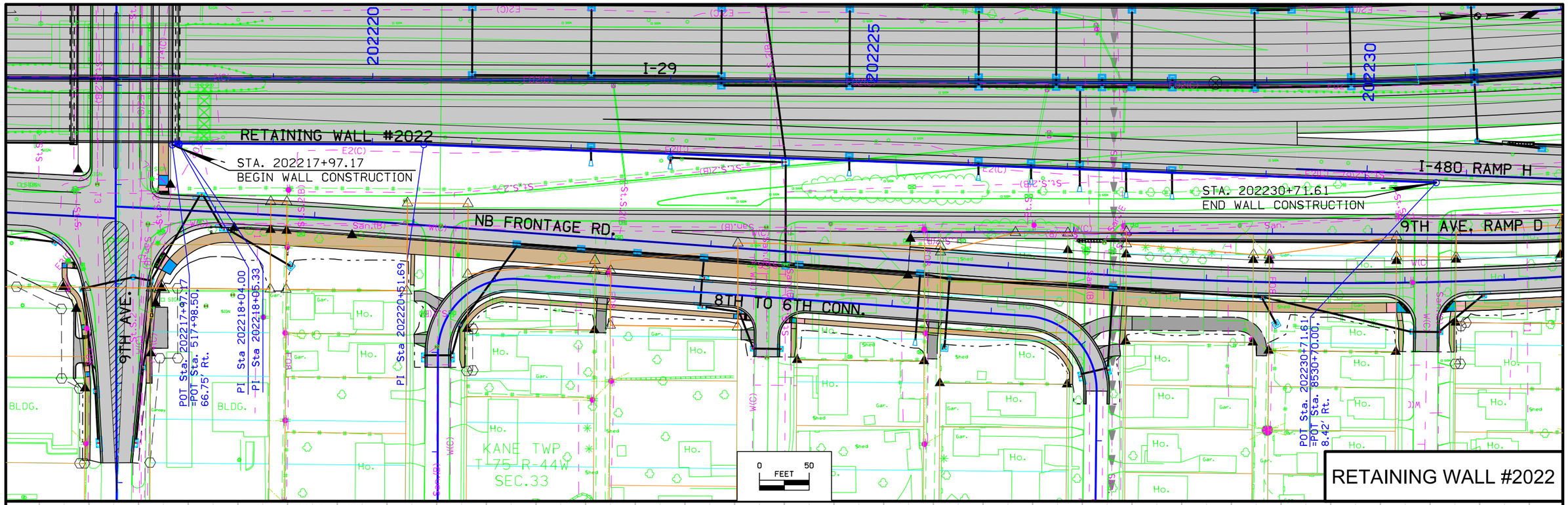
FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER V.43

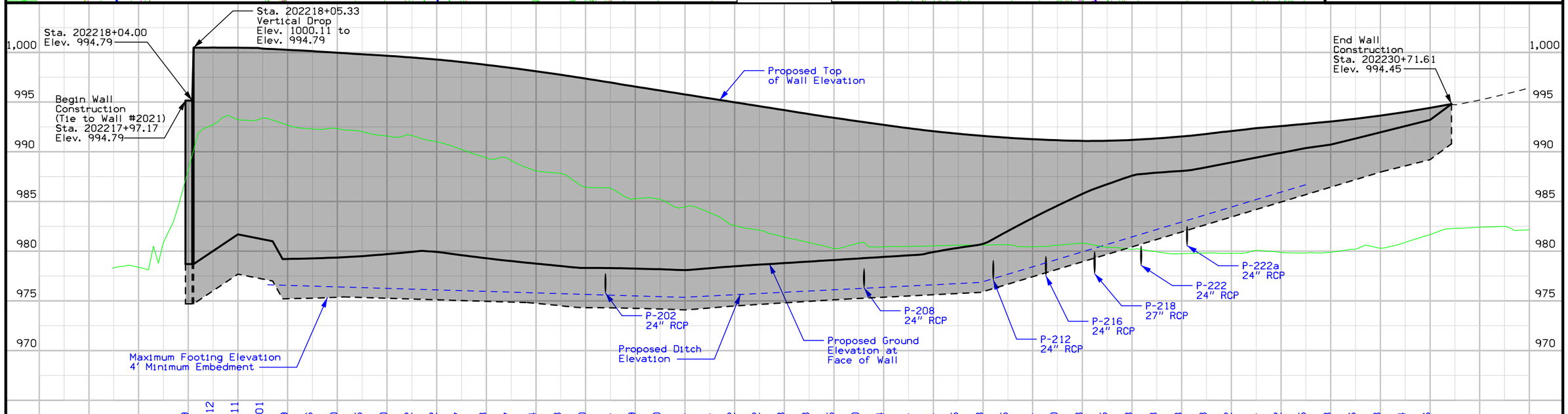




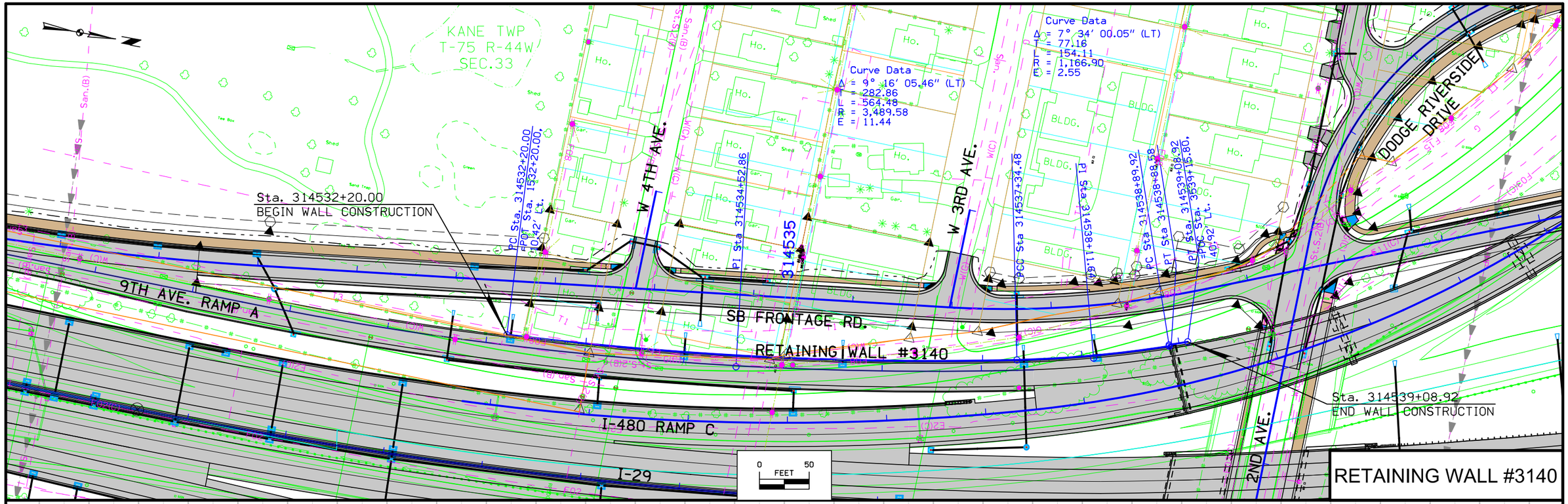
FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER V.44

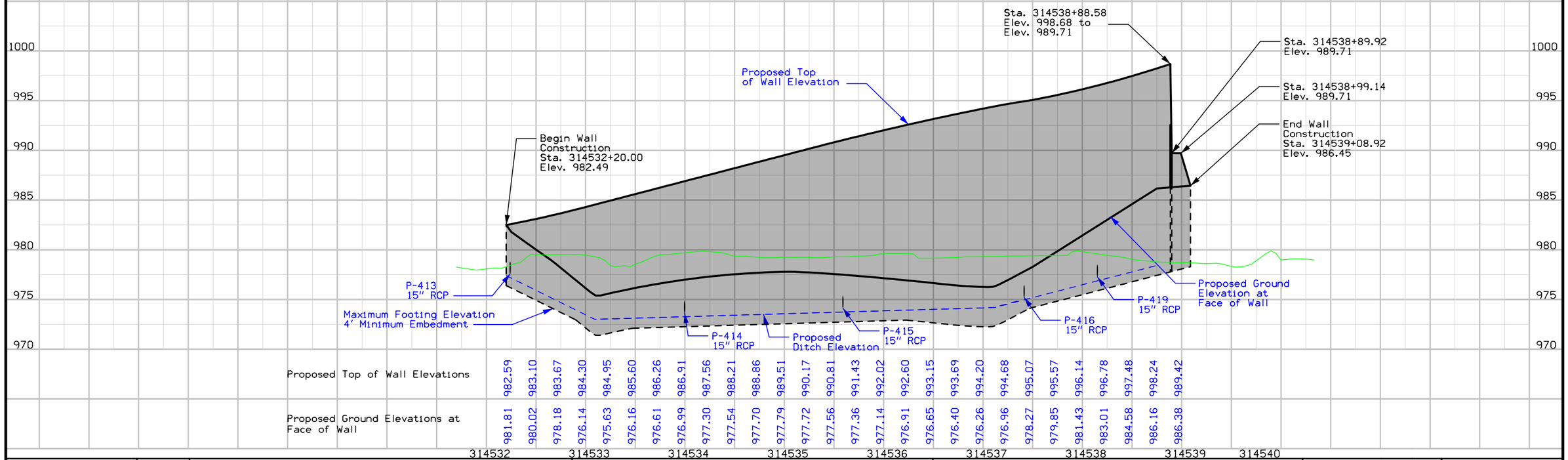
11:00:30 AM 10/26/2017 mplummer pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\78029166-V.sht


202220
202225
202230
I-29
RETAINING WALL #2022
STA. 202217+97.17
BEGIN WALL CONSTRUCTION
STA. 202230+71.61
END WALL CONSTRUCTION
I-480 RAMP H
NB FRONTAGE RD.
9TH AVE. RAMP D
8TH TO 6TH CONN.
9TH AVE.
POT Sta. 202217+97.17
=POT Sta. 517+98.50
66.75' Rt.
PI Sta 202218+04.00
PI Sta 202218+05.33
PI Sta 202220+51.69
POT Sta. 202230+71.61
=POT Sta. 8530+70.00
8.42' Rt.
KANE TWP
T 75 R-44W
SEC.33
BLDG.
0 FEET 50
RETAINING WALL #2022


Sta. 202218+04.00
Elev. 994.79
Sta. 202218+05.33
Vertical Drop
Elev. 1000.11 to
Elev. 994.79
End Wall
Construction
Sta. 202230+71.61
Elev. 994.45
Begin Wall
Construction
(Tie to Wall #2021)
Sta. 202217+97.17
Elev. 994.79
Proposed Top
of Wall Elevation
1,000
995
990
985
980
975
970
P-202
24" RCP
P-208
24" RCP
P-212
24" RCP
P-216
24" RCP
P-218
27" RCP
P-222
24" RCP
P-222a
24" RCP
Proposed Ditch
Elevation
Proposed Ground
Elevation at
Face of Wall
Maximum Footing Elevation
4' Minimum Embedment

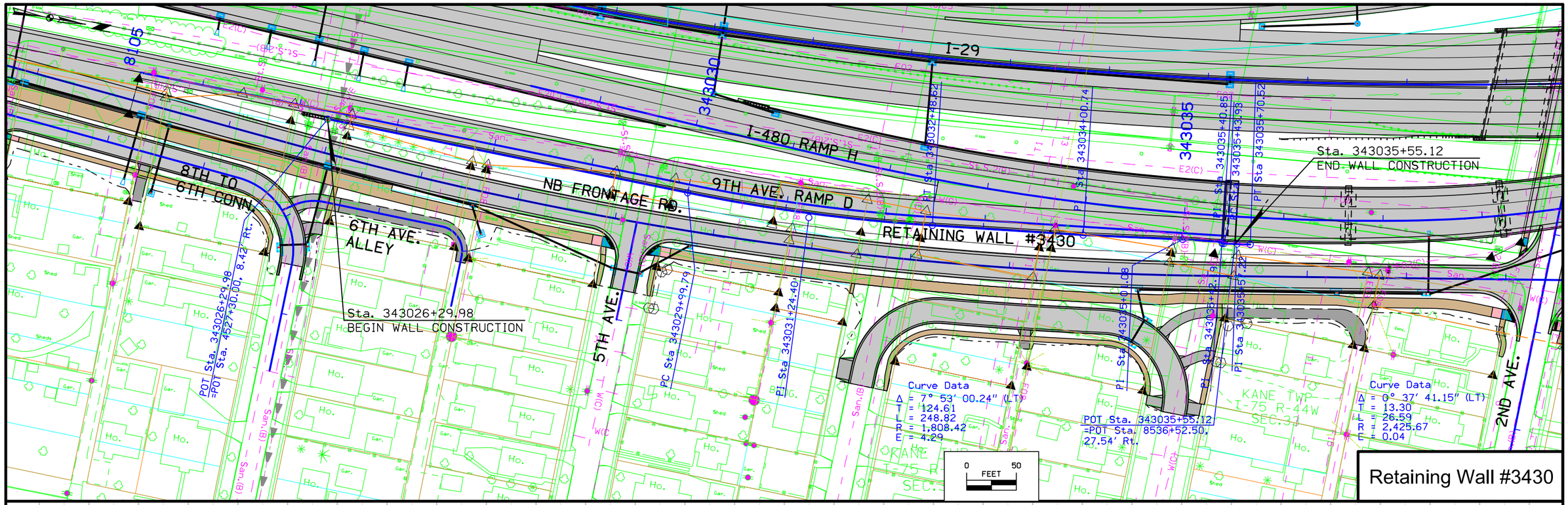
| | | |

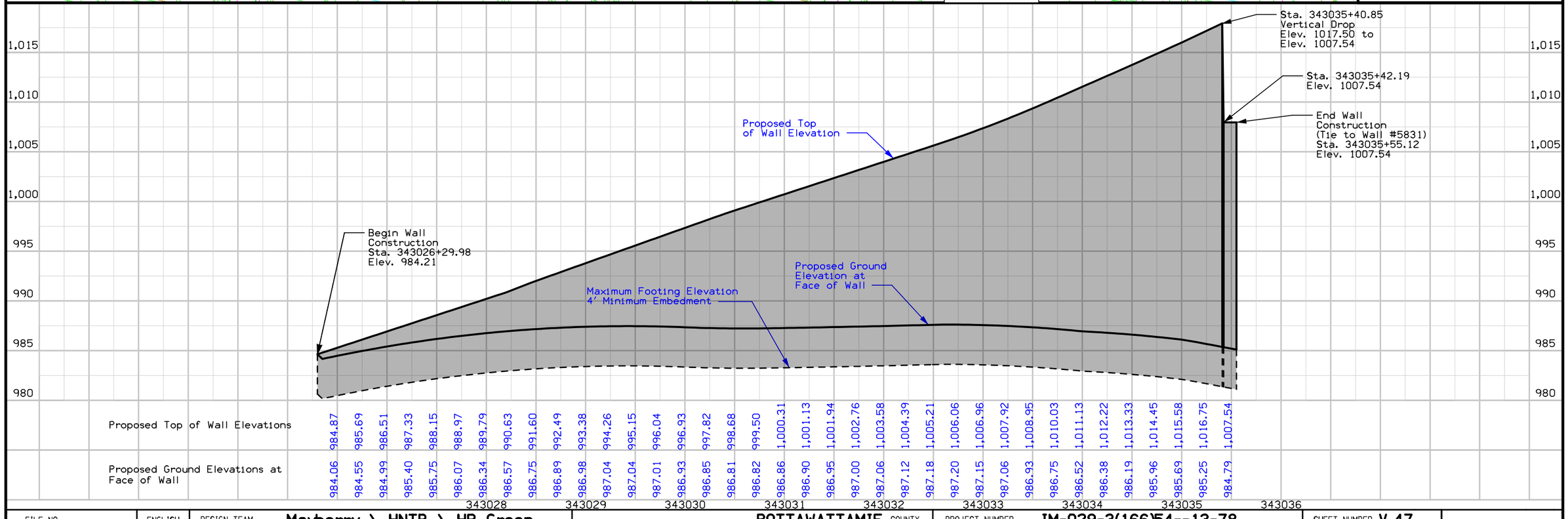




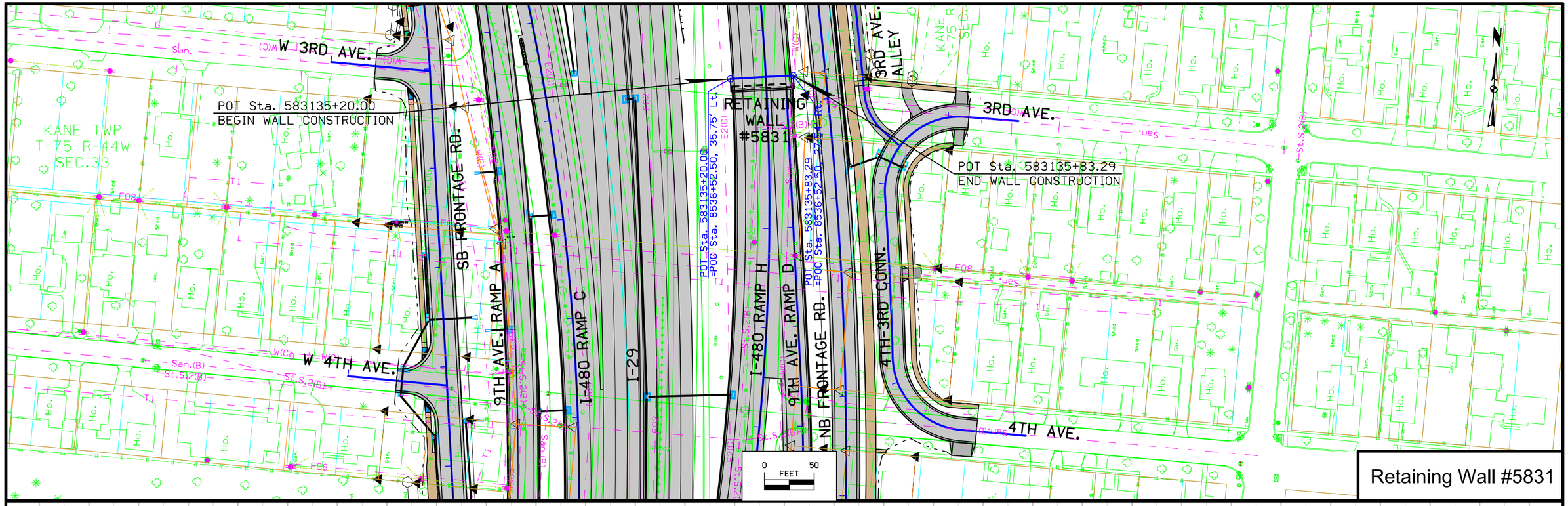
FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER V.46

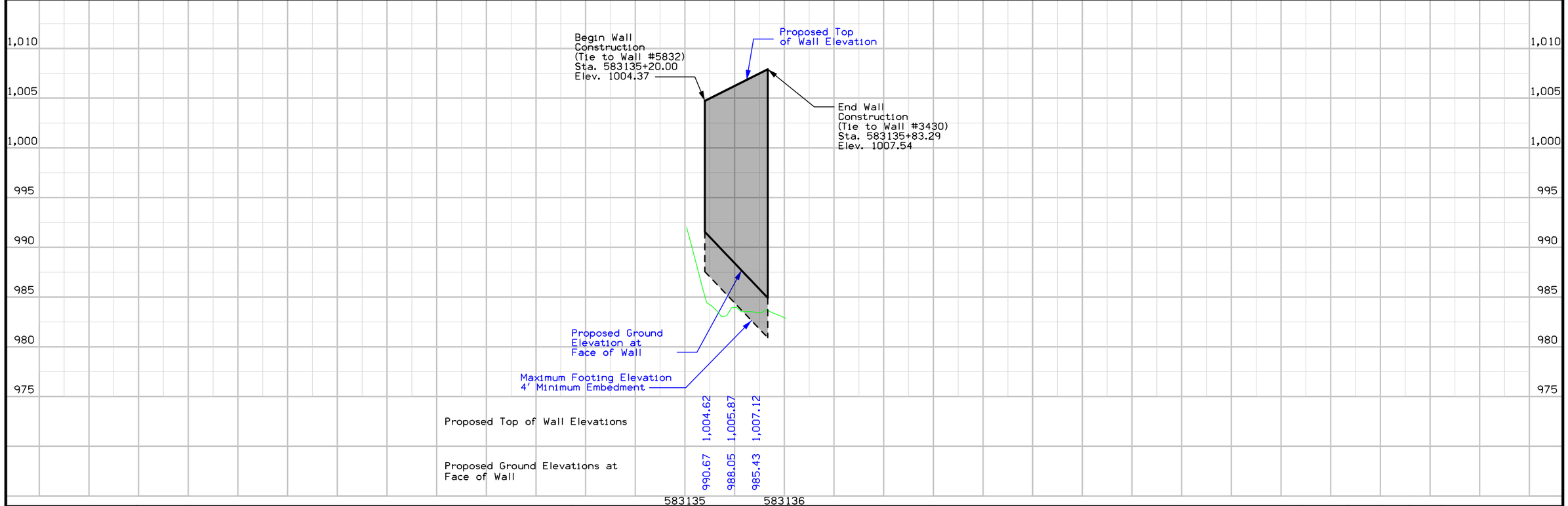
11:00:35 AM 10/26/2017 mplummer pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\78029166-V.sht





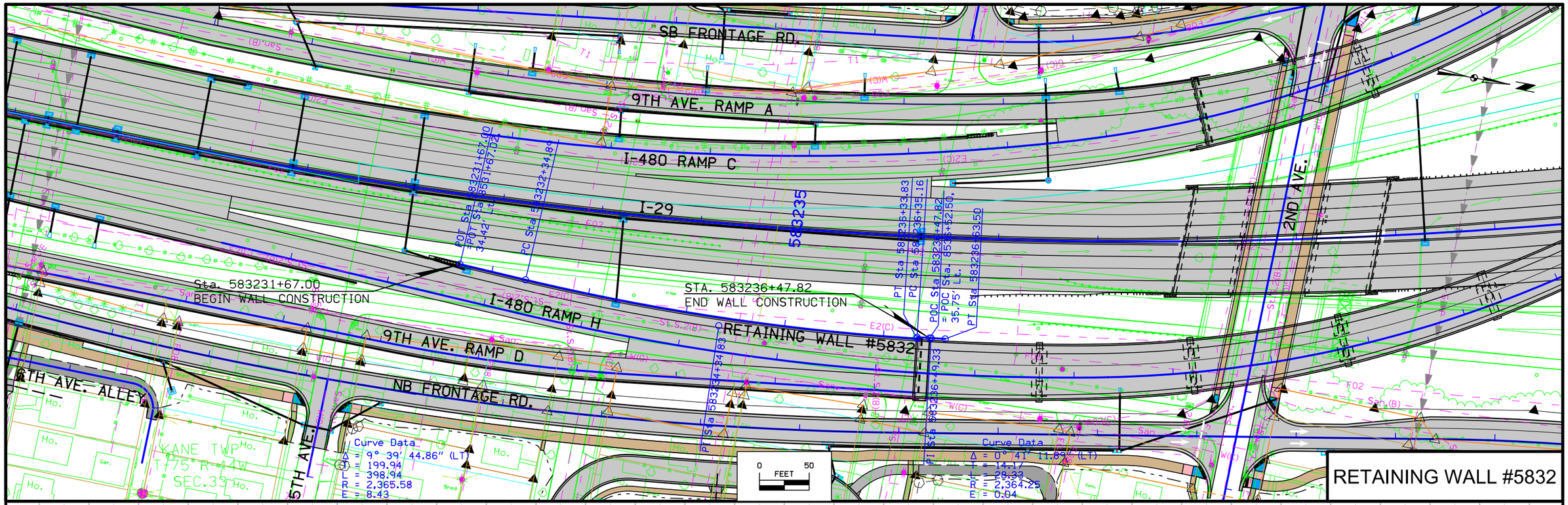
FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER V.47

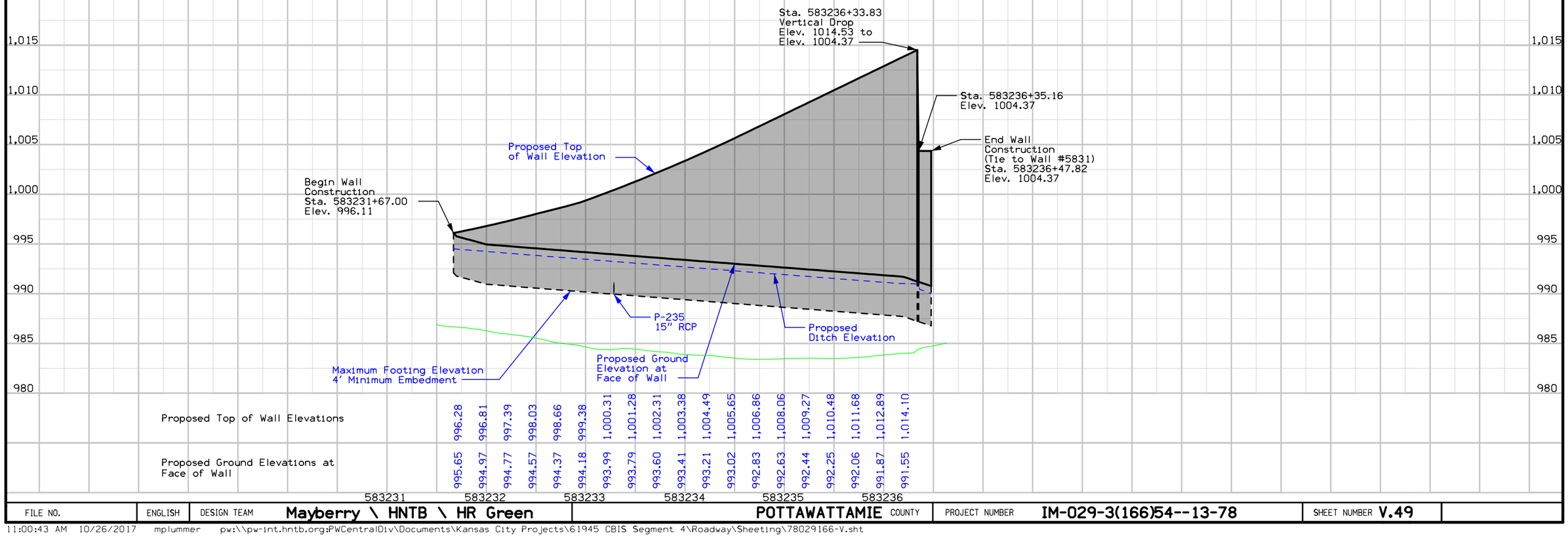




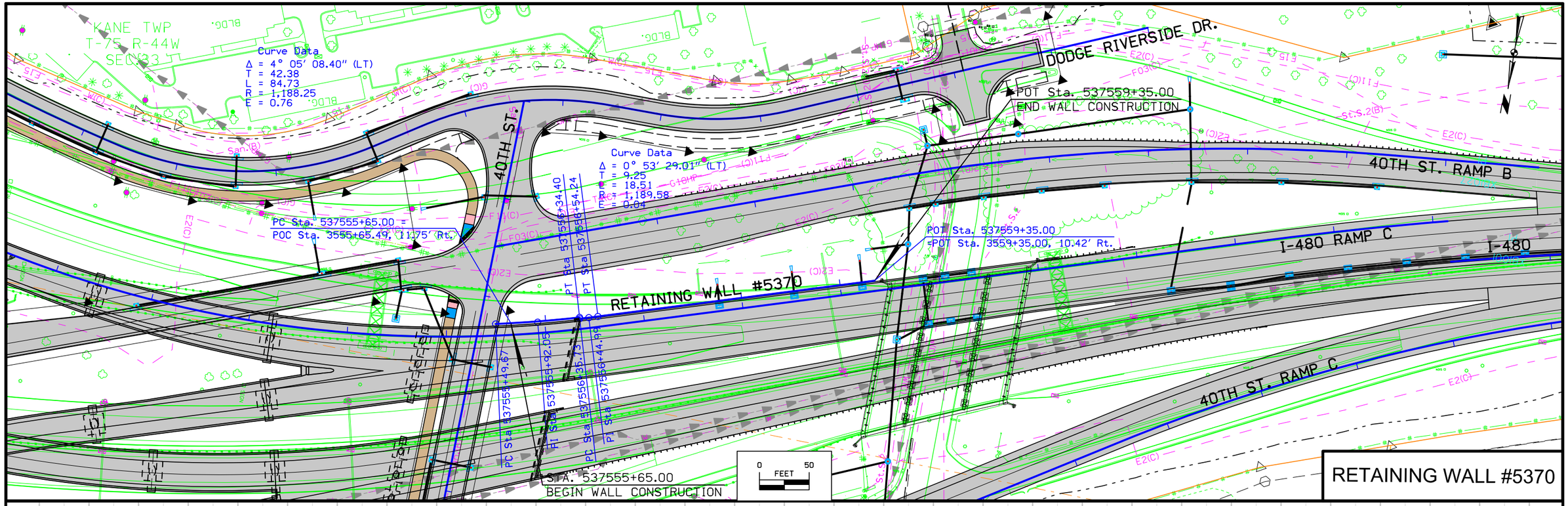
FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER V.48

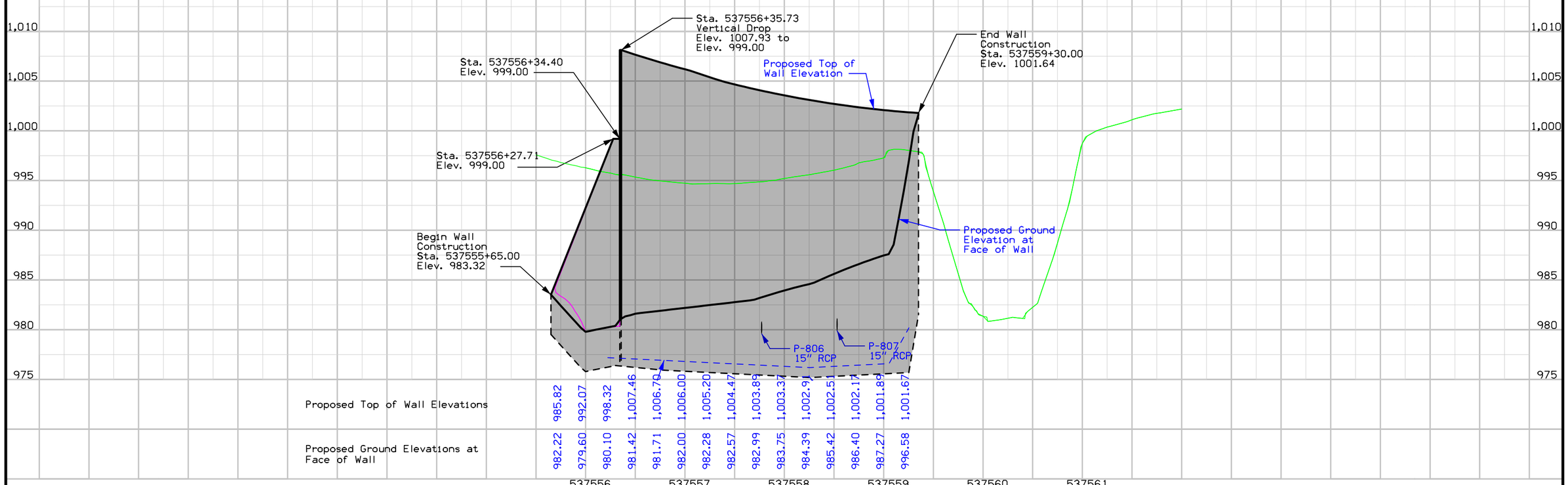
11:00:40 AM 10/26/2017 mplummer pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\78029166-V.sht



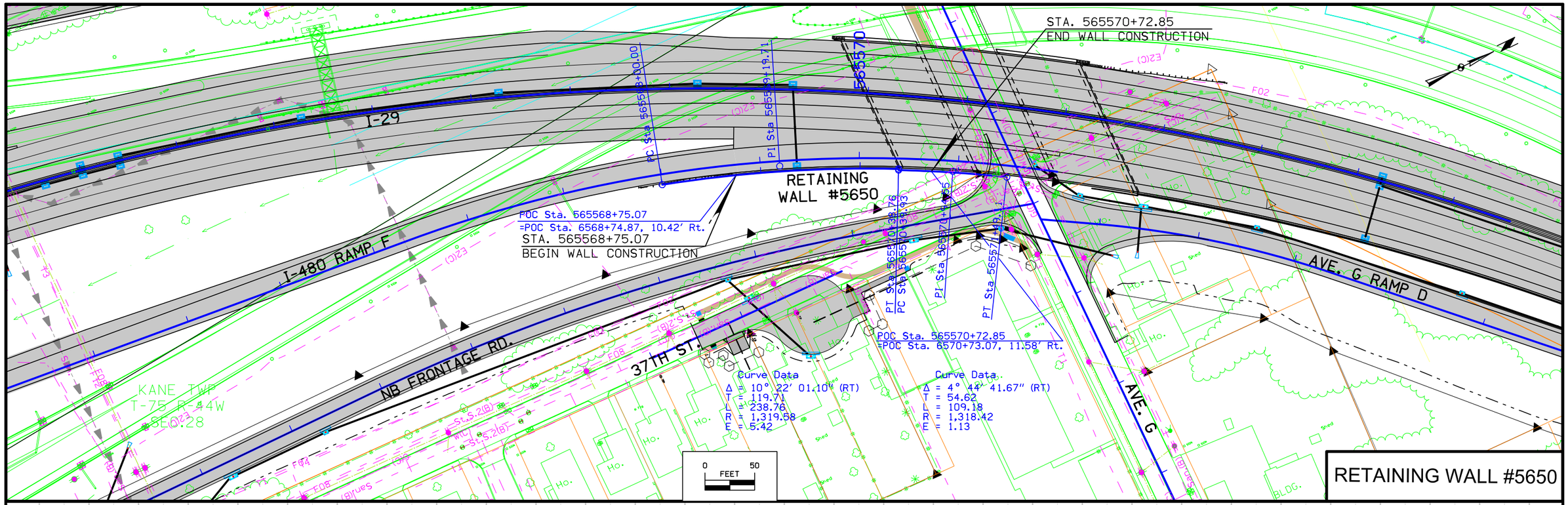


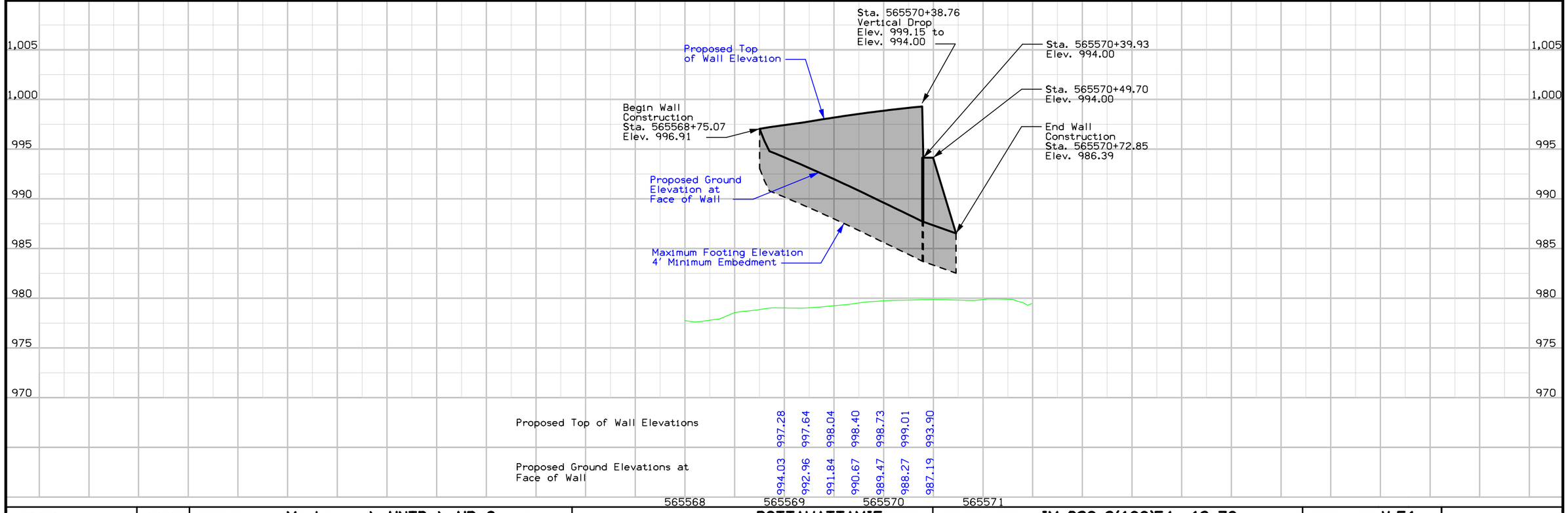
FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER V.49



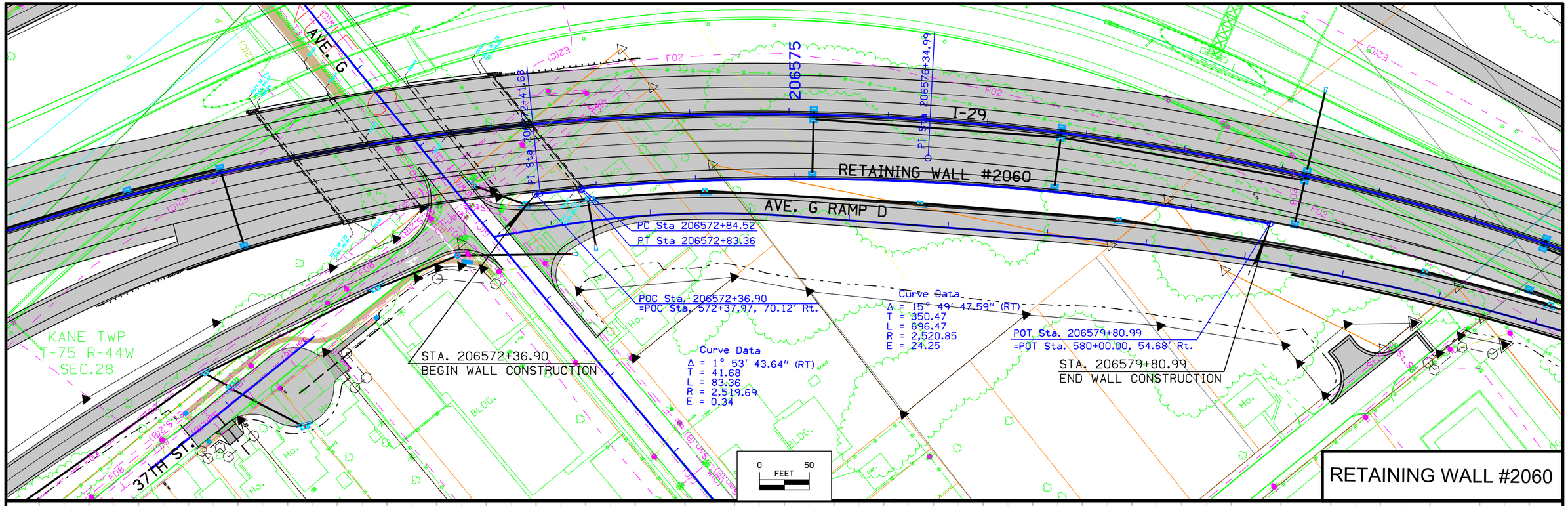


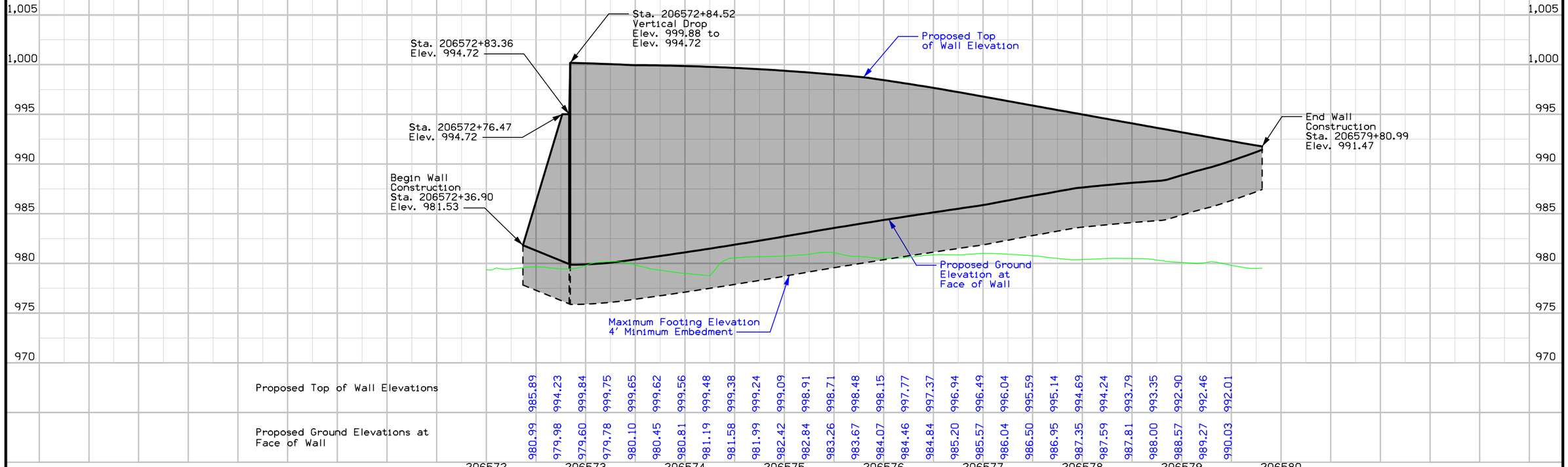
FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER V.50





FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER V.51





Proposed Top of Wall Elevations	985.89	994.23	999.84	999.75	999.65	999.62	999.56	999.48	999.38	999.24	999.09	998.91	998.71	998.48	998.15	997.77	997.37	996.94	996.49	996.04	995.59	995.14	994.69	994.24	993.79	993.35	992.90	992.46	992.01
Proposed Ground Elevations at Face of Wall	980.99	979.98	979.60	979.78	980.10	980.45	980.81	981.19	981.58	981.99	982.42	982.84	983.26	983.67	984.07	984.46	984.84	985.20	985.57	986.04	986.50	986.95	987.35	987.59	987.81	988.00	988.57	989.27	990.03

FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER V.52

LINE STYLE LEGEND OF CROSS SECTION SHEETS (ROAD)

- **Existing Ground Line**
- **Proposed Template**
- **Proposed Topsoil Placement**
- **Additional Topsoil Removal**
- **Subrade Treatment**
- **Granular Shoulder**
- **Pavement**
- **Existing Pipe\RCB**
- **Proposed Pipe\RCB**
- **Proposed Dike**
- **All Elements Associated with Proposed Entrances**

LINE STYLE LEGEND OF CROSS SECTION SHEETS (SOILS)

- TS — **Topsoil (Class 10)**
- SLOPE DRESSING — **Slope Dressing Only**
- CL 10 — **Class 10 Materials**
- SEL LO — **Select Loams And Clay-Loams**
- SEL SA — **Select Sand**
- UNS A — **Unsuitable Type A Disposal**
- UNS B — **Unsuitable Type B Disposal**
- UNS C — **Unsuitable Type C Disposal**
- SHALE — **Shale**
- WASTE — **Waste**
- B&W LS — **Broken and Weathered Rock**
- ROCK — **Solid Rock**
- BLDRS — **Boulders**

Note: All layer lines and descriptions identify layers above the line.

Note: Vertical or near vertical lines connecting soil layers at edges of cross sections are only for the purpose of calculating template quantities and do not depict soil stratification.

SYMBOL LEGEND OF CROSS SECTION SHEETS

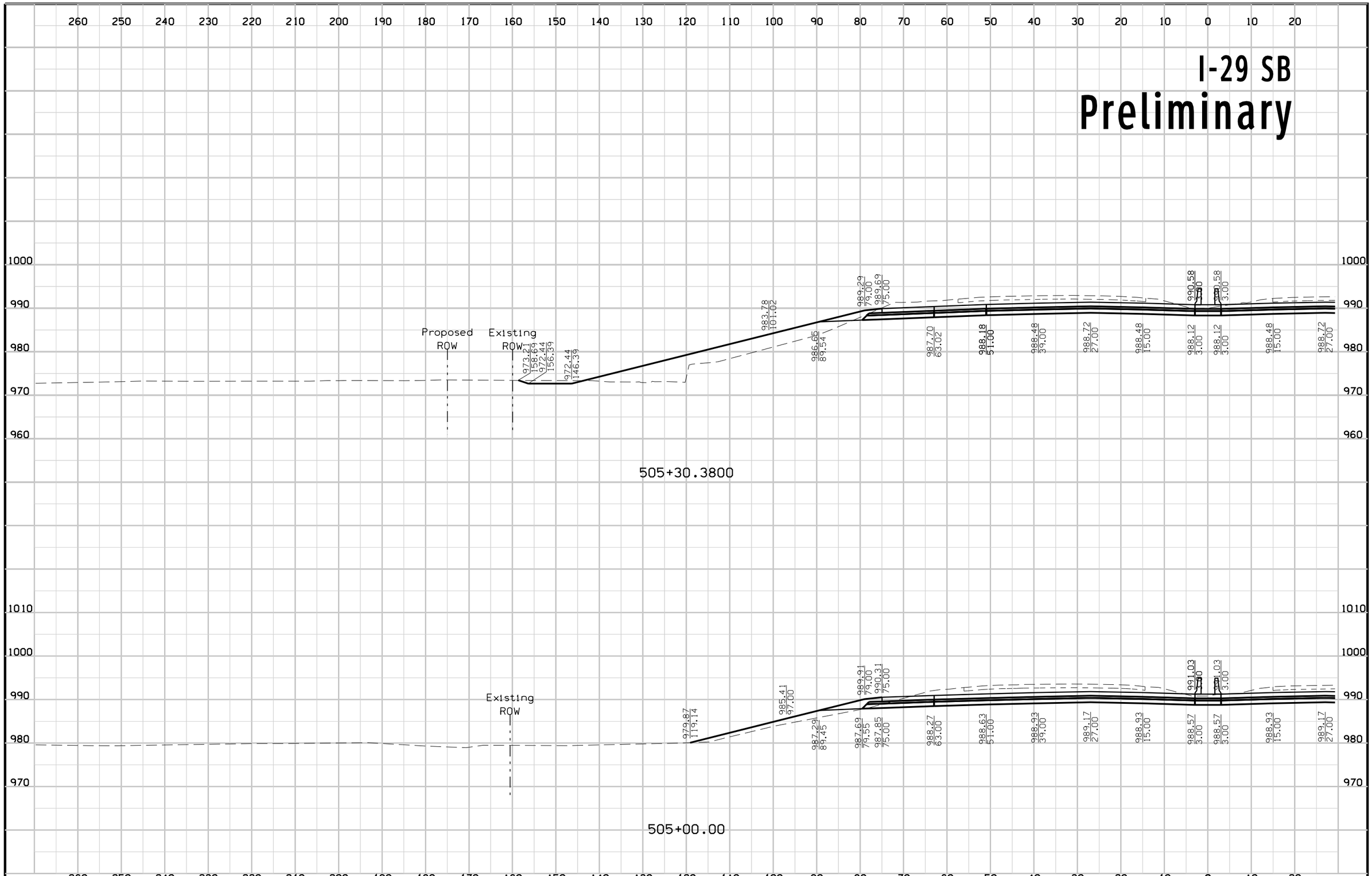
Existing ROW — **Existing Right-of-Way Limit**

Proposed ROW — **Proposed Right-of-Way Limit**

Temporary ROW — **Temporary Right-of-Way Limit**

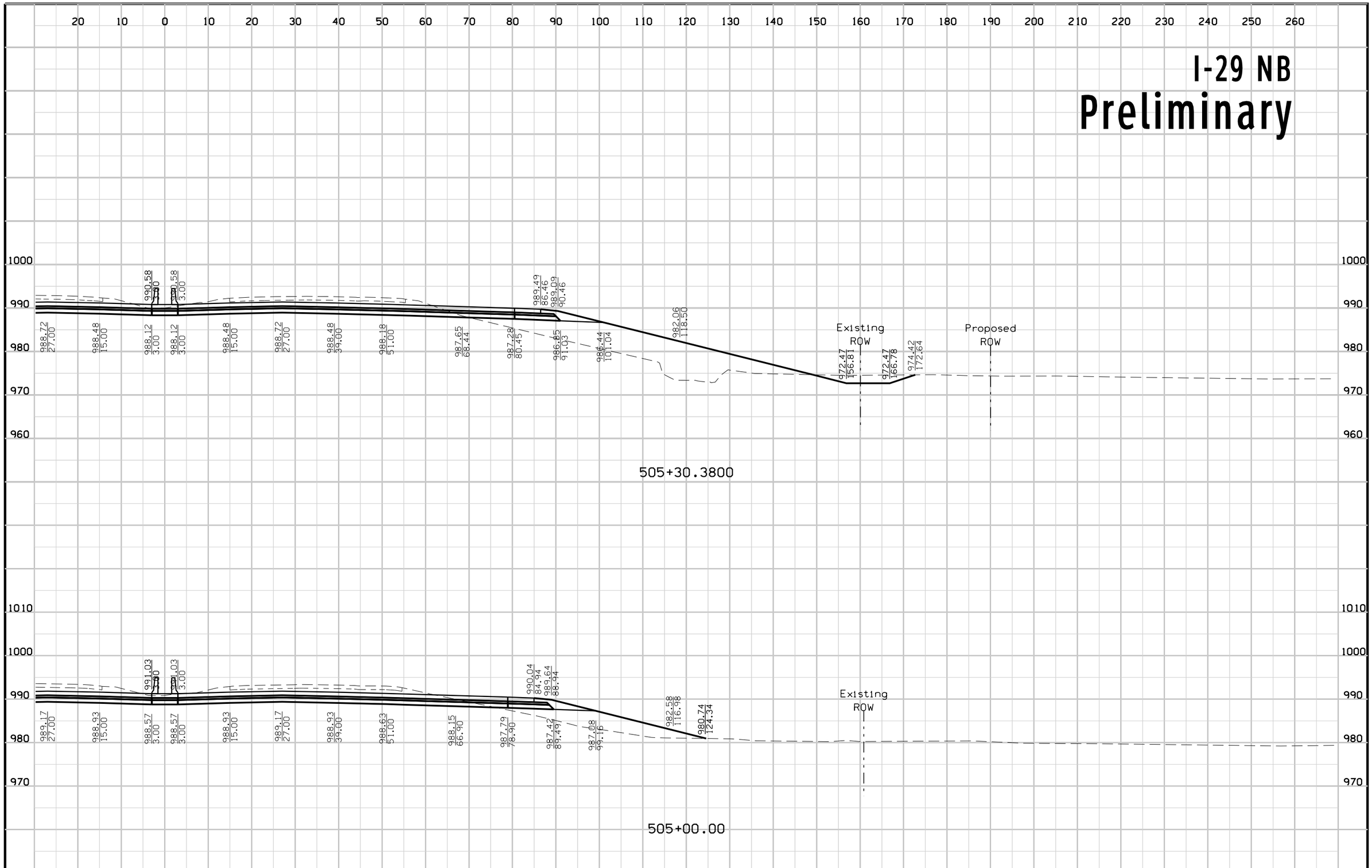
Proposed C/A — **Proposed Access Control**

I-29 SB
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER	W.2

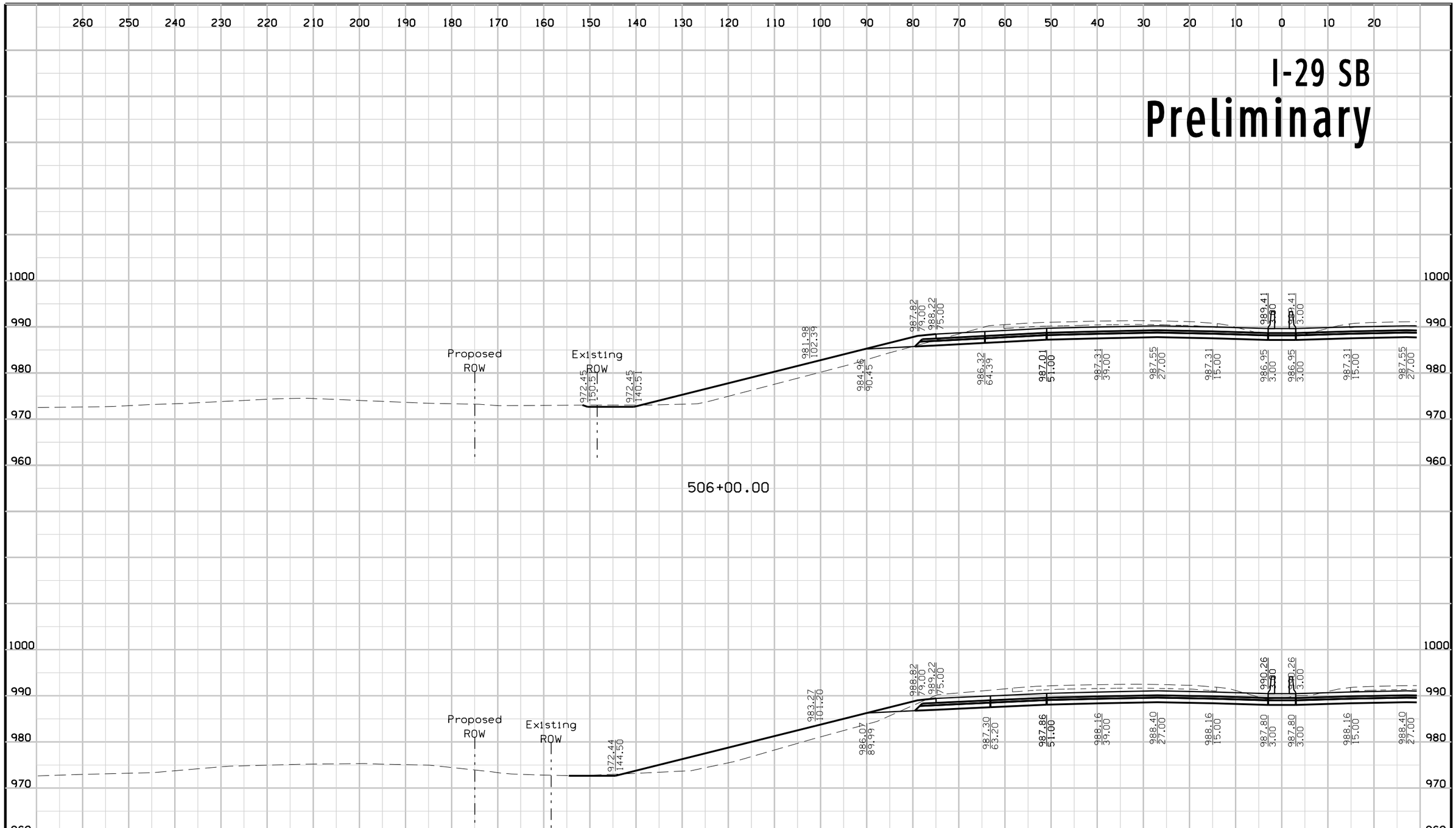
I-29 NB
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER	W.3

2:43:39 PM 10/23/2017 mtoapanta pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\XSSHT_ML029.sht

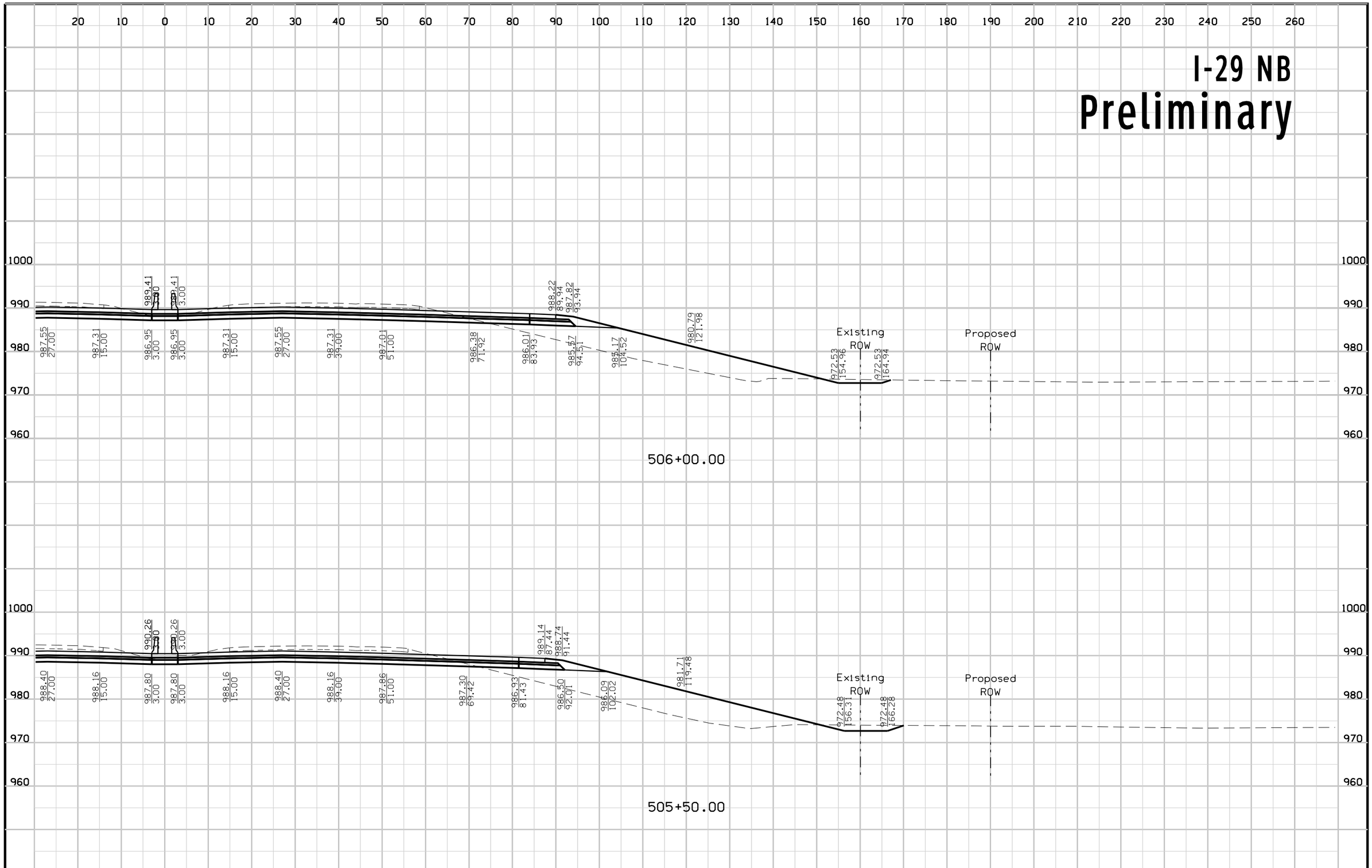
I-29 SB
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER	W.4

2:43:42 PM 10/23/2017 mtoapanta pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\XSSHT_ML029.sht

I-29 NB
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER	W.5

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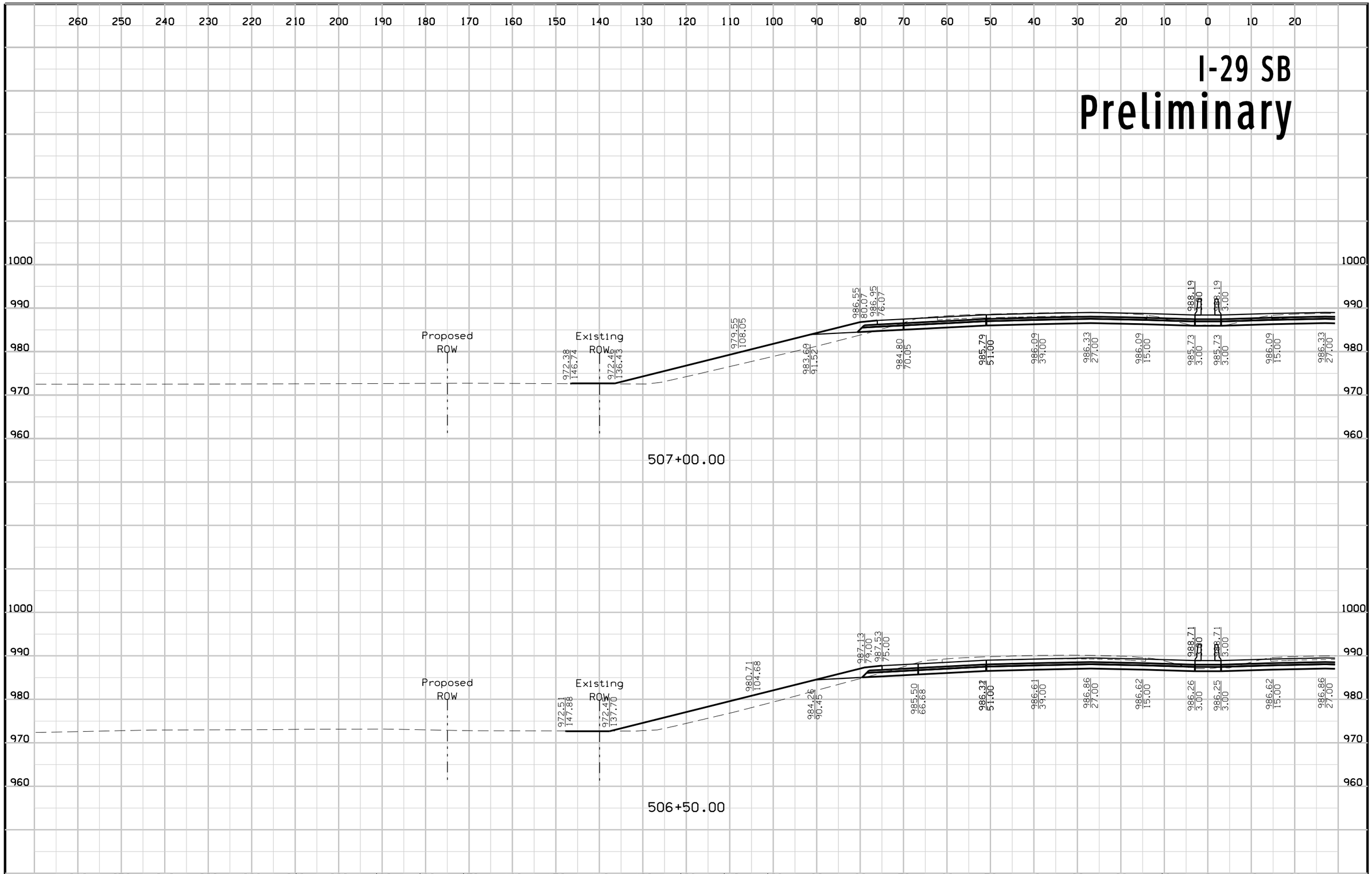
I-29 SB
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER	W.6

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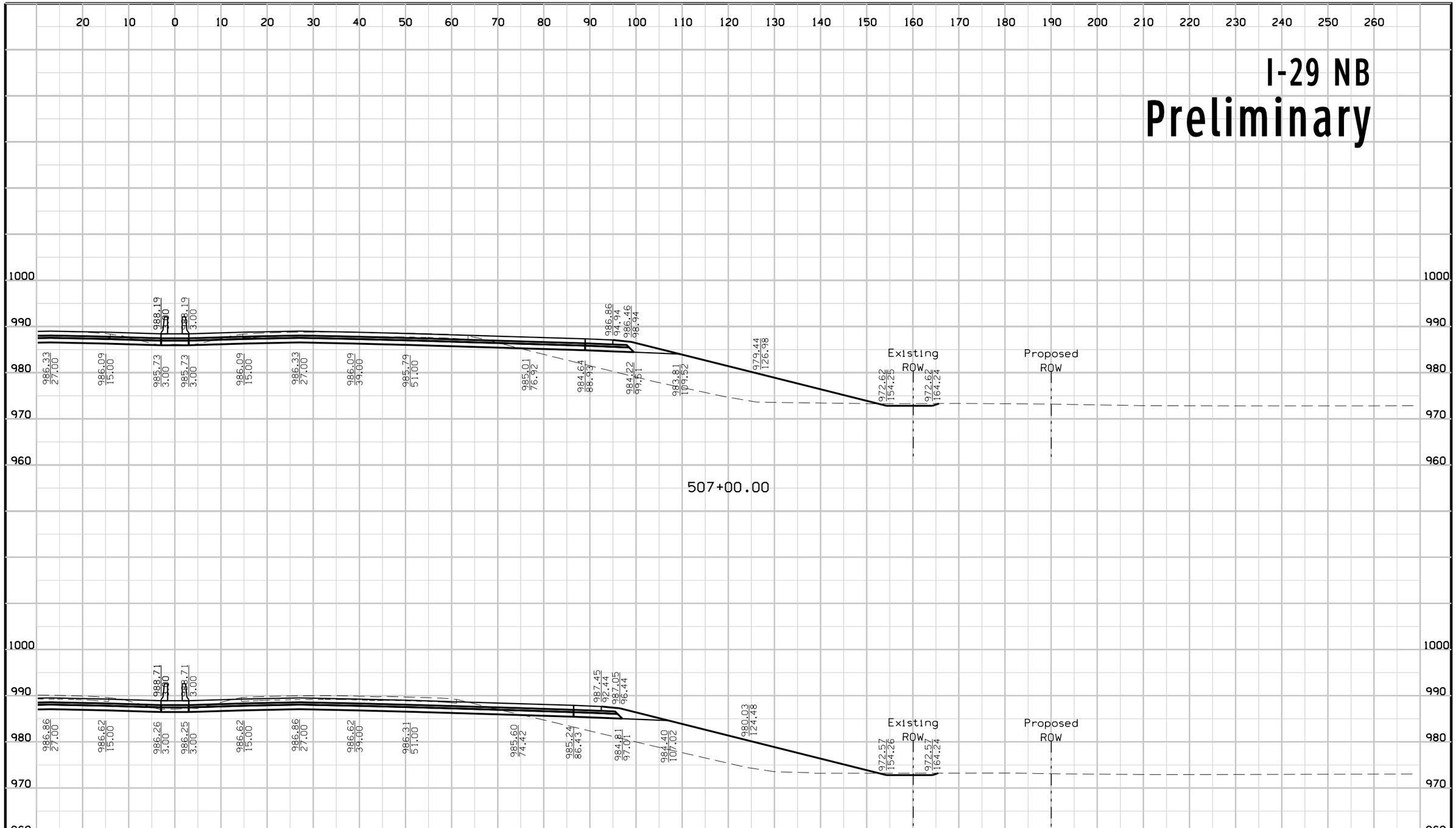
I-29 NB
Preliminary



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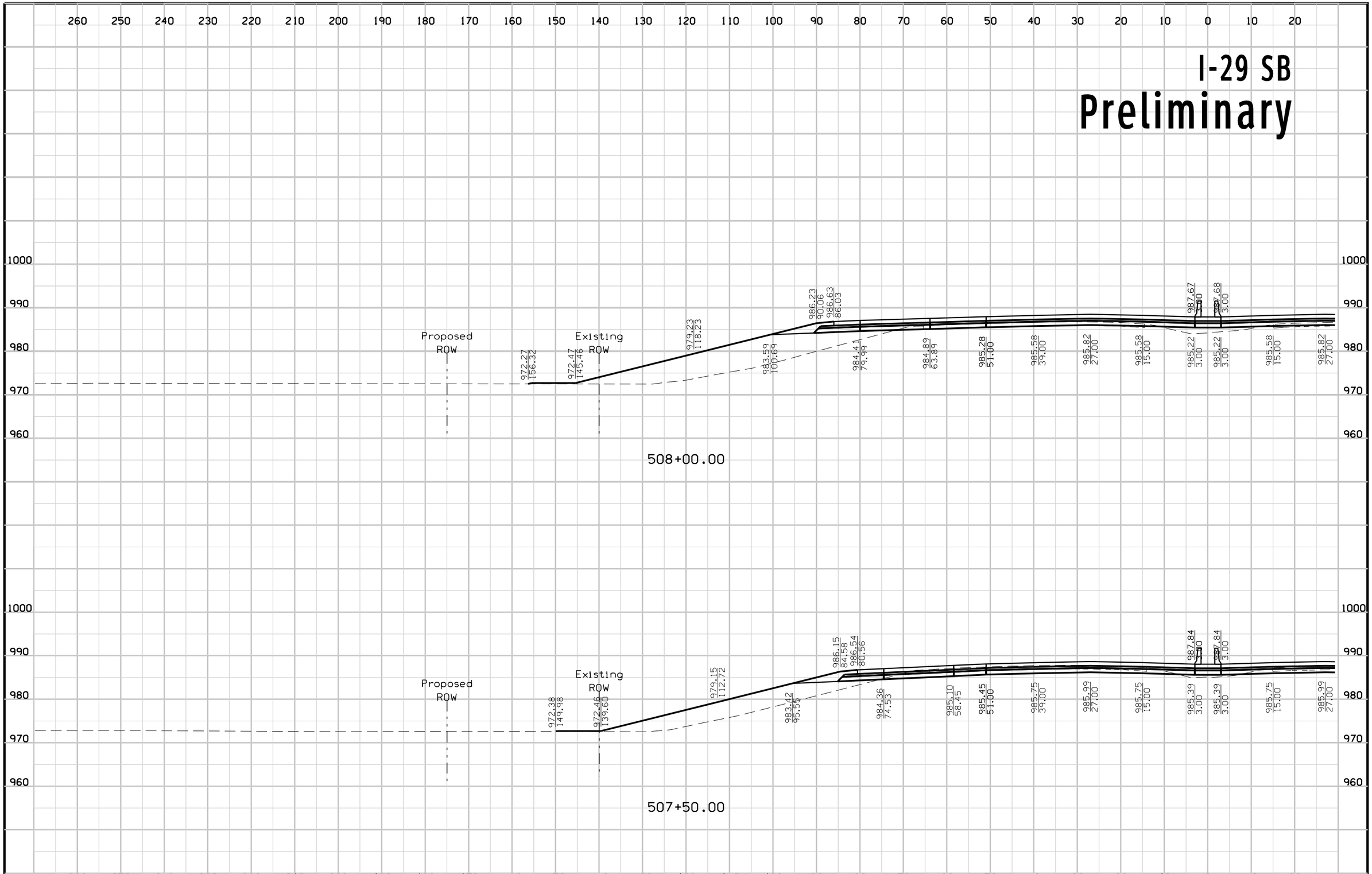
I-29 SB
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER	W.8

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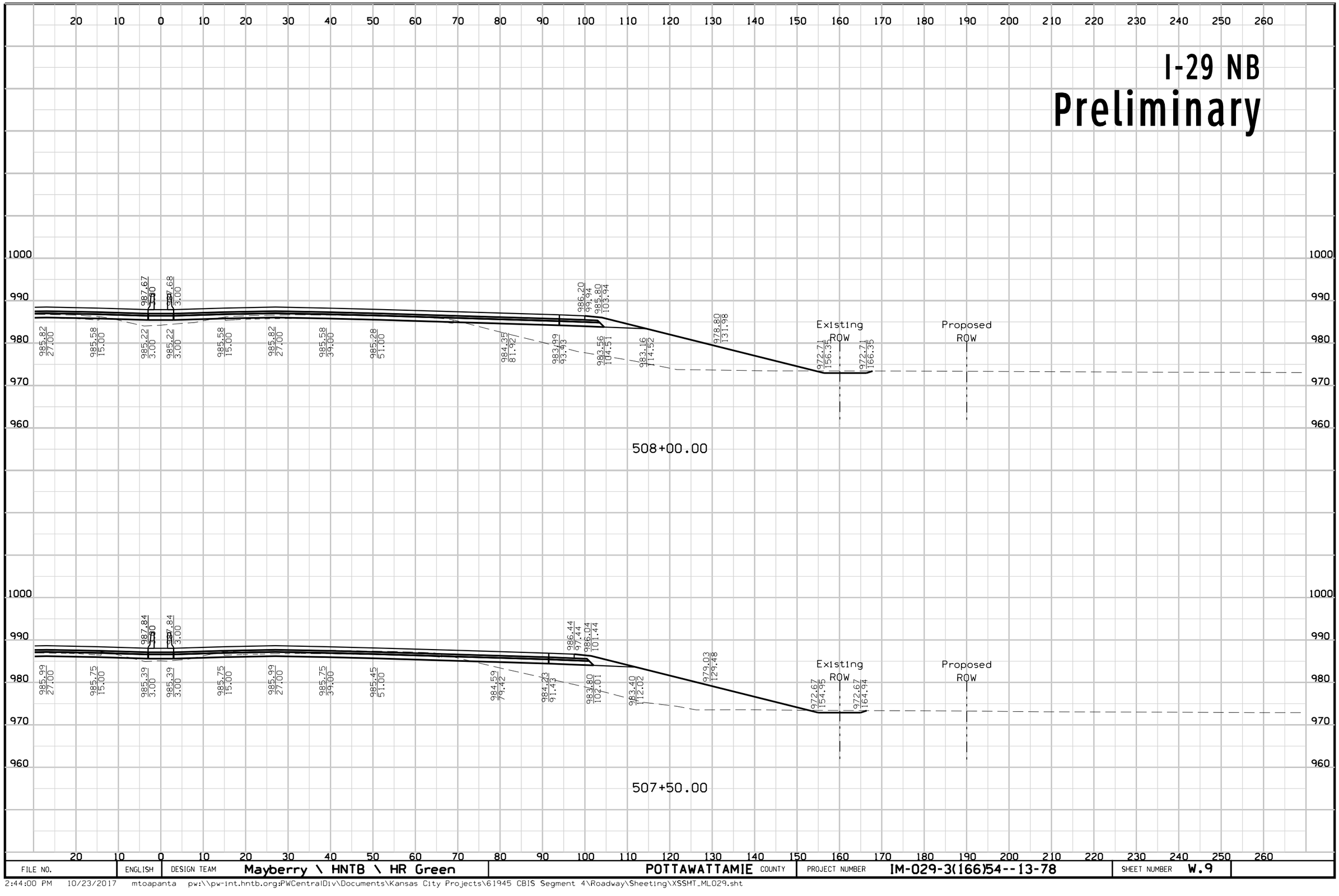
I-29 NB
Preliminary



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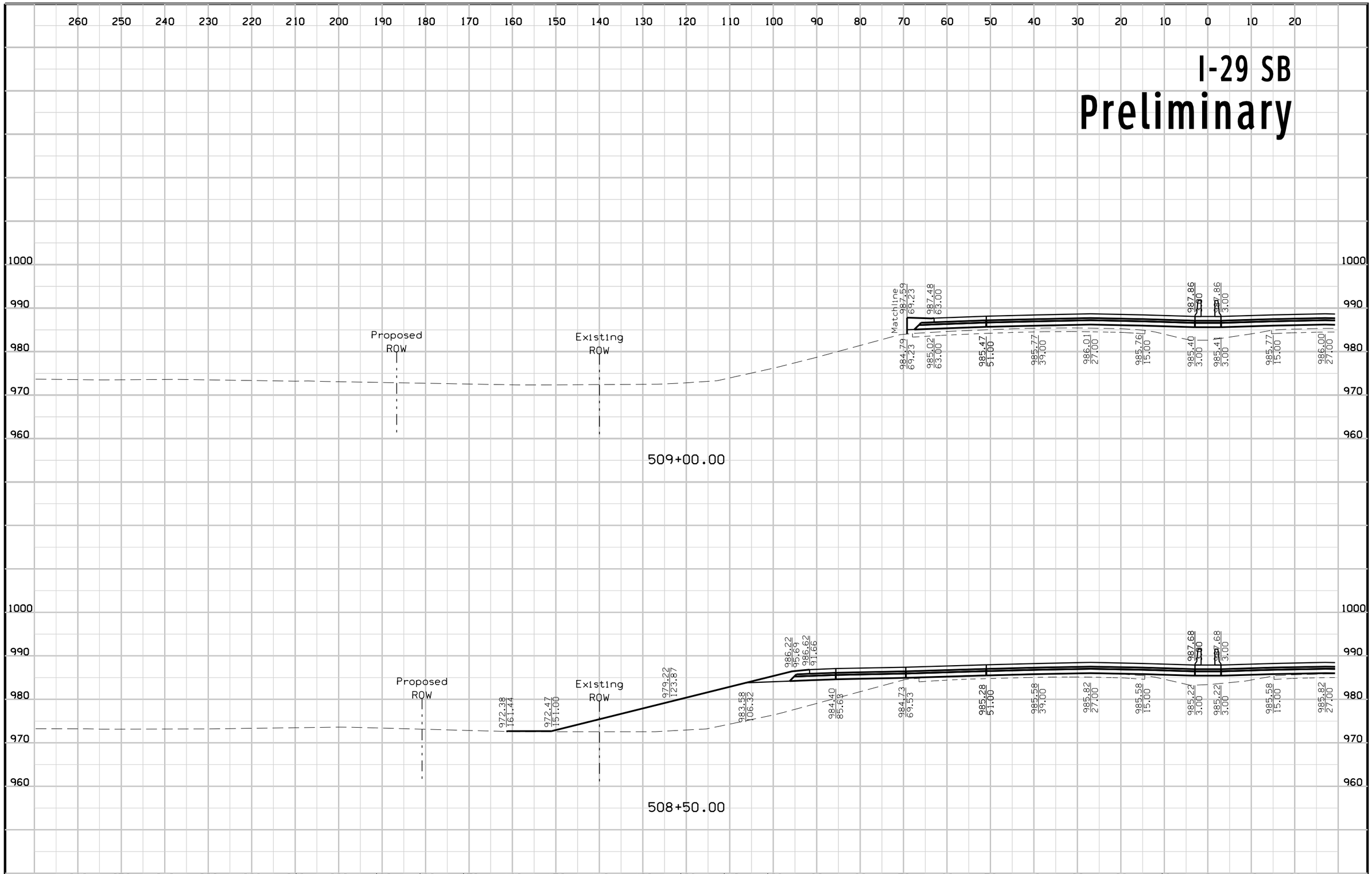
2:44:00 PM 10/23/2017 mtoapanta pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\XSSHT_ML029.sht

I-29 SB
Preliminary



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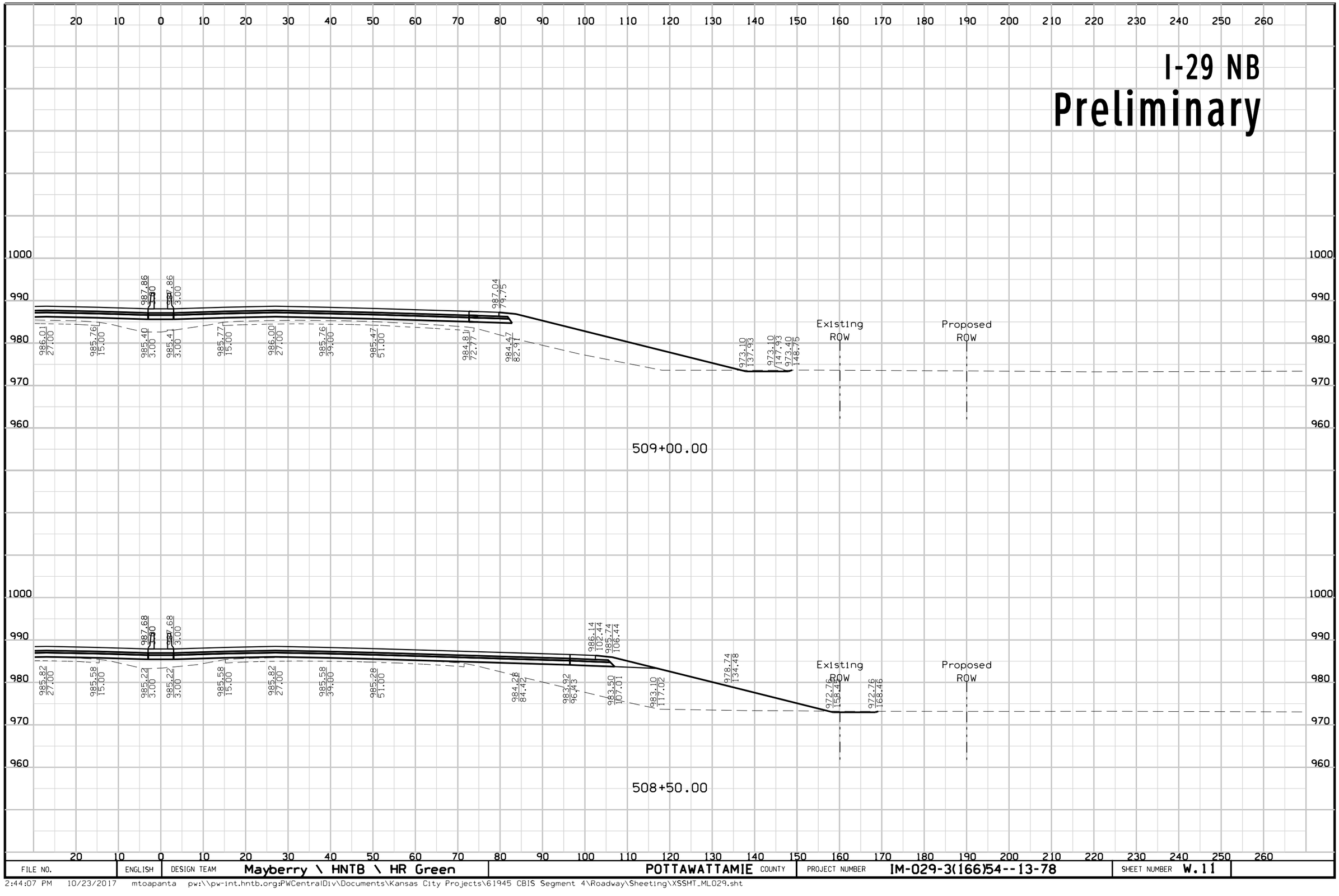
I-29 NB
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM		COUNTY	PROJECT NUMBER	SHEET NUMBER
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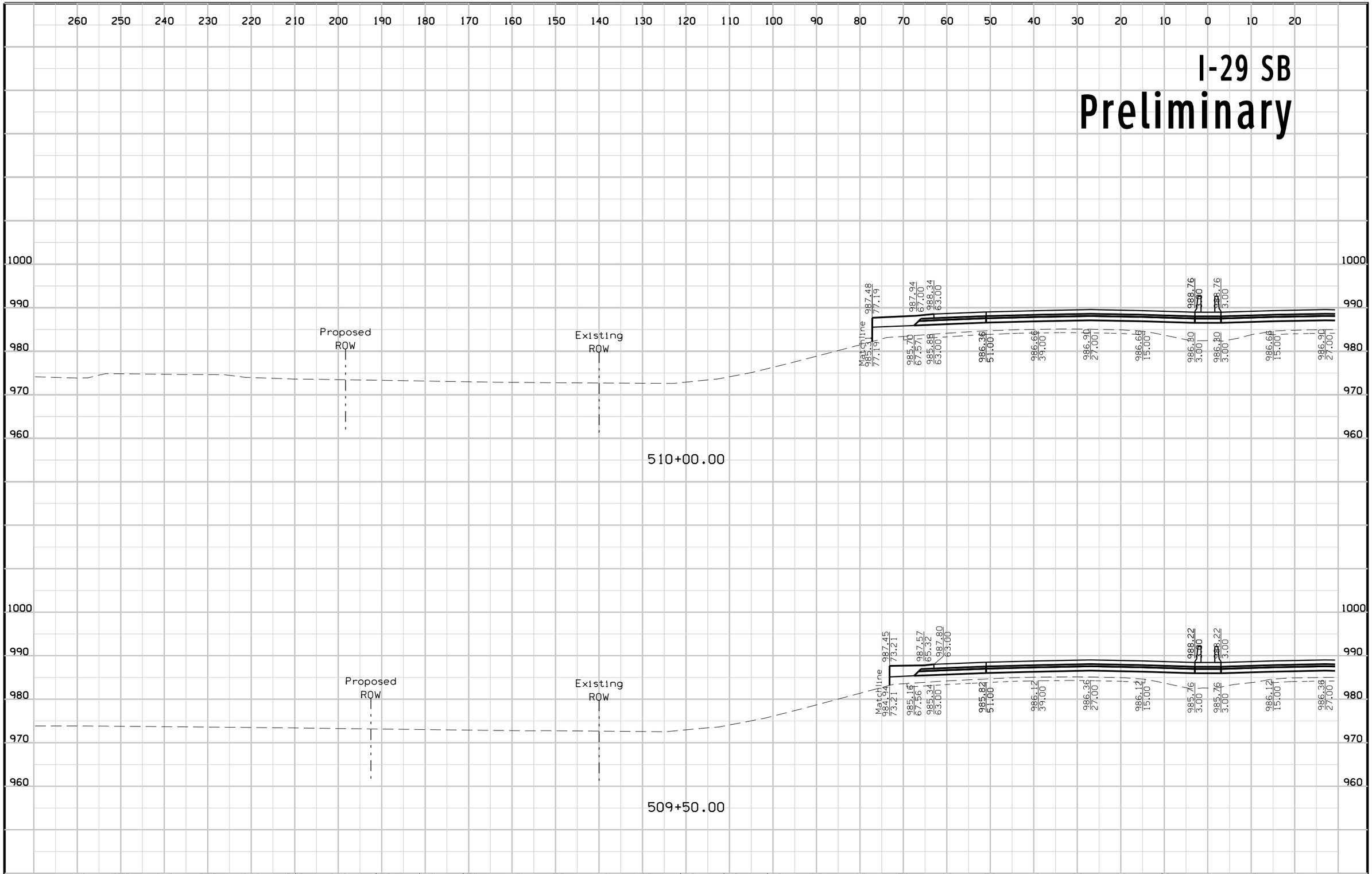
2:44:07 PM 10/23/2017 mtoapanta pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\XSSHT_ML029.sht

I-29 SB
Preliminary



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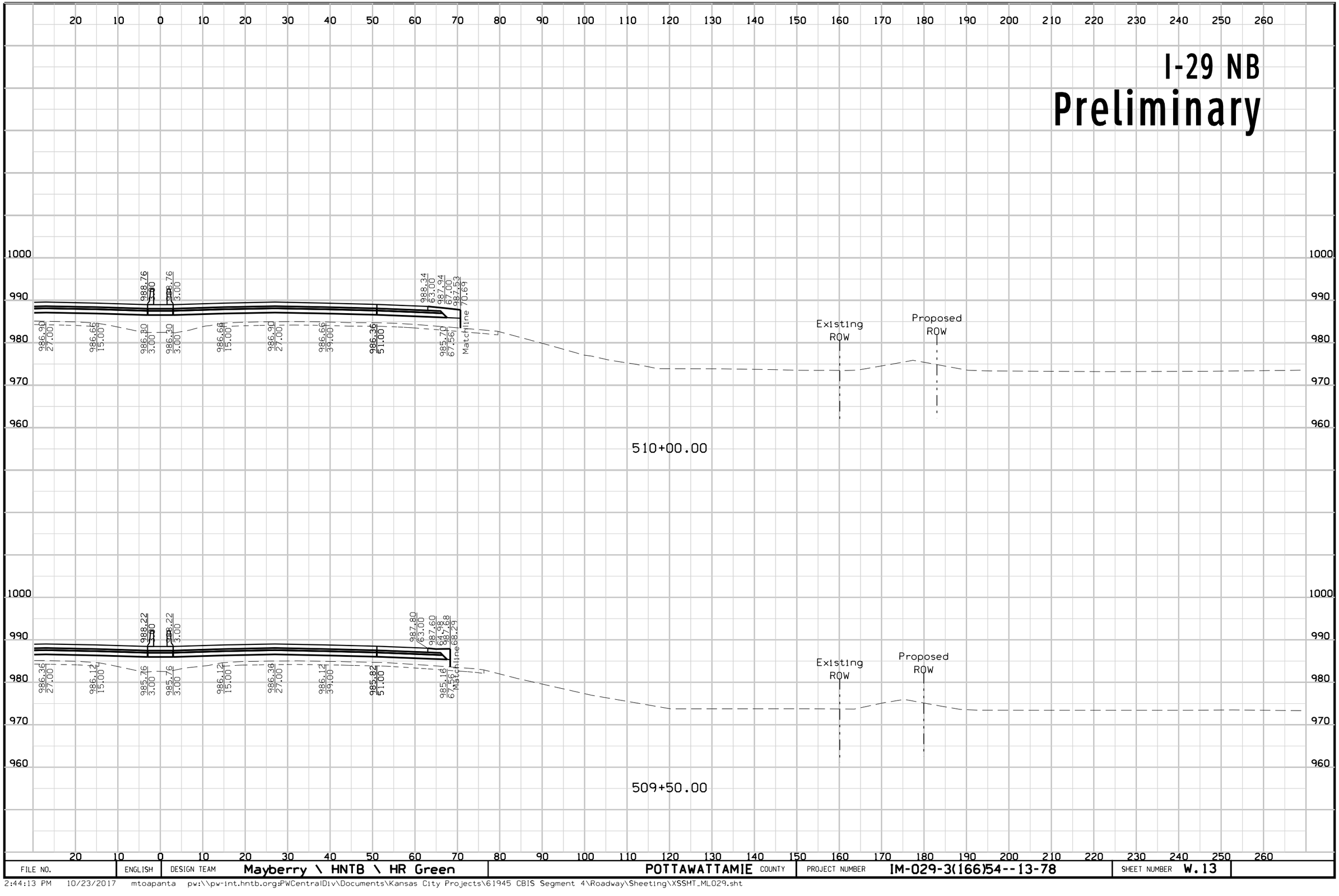
I-29 NB
Preliminary



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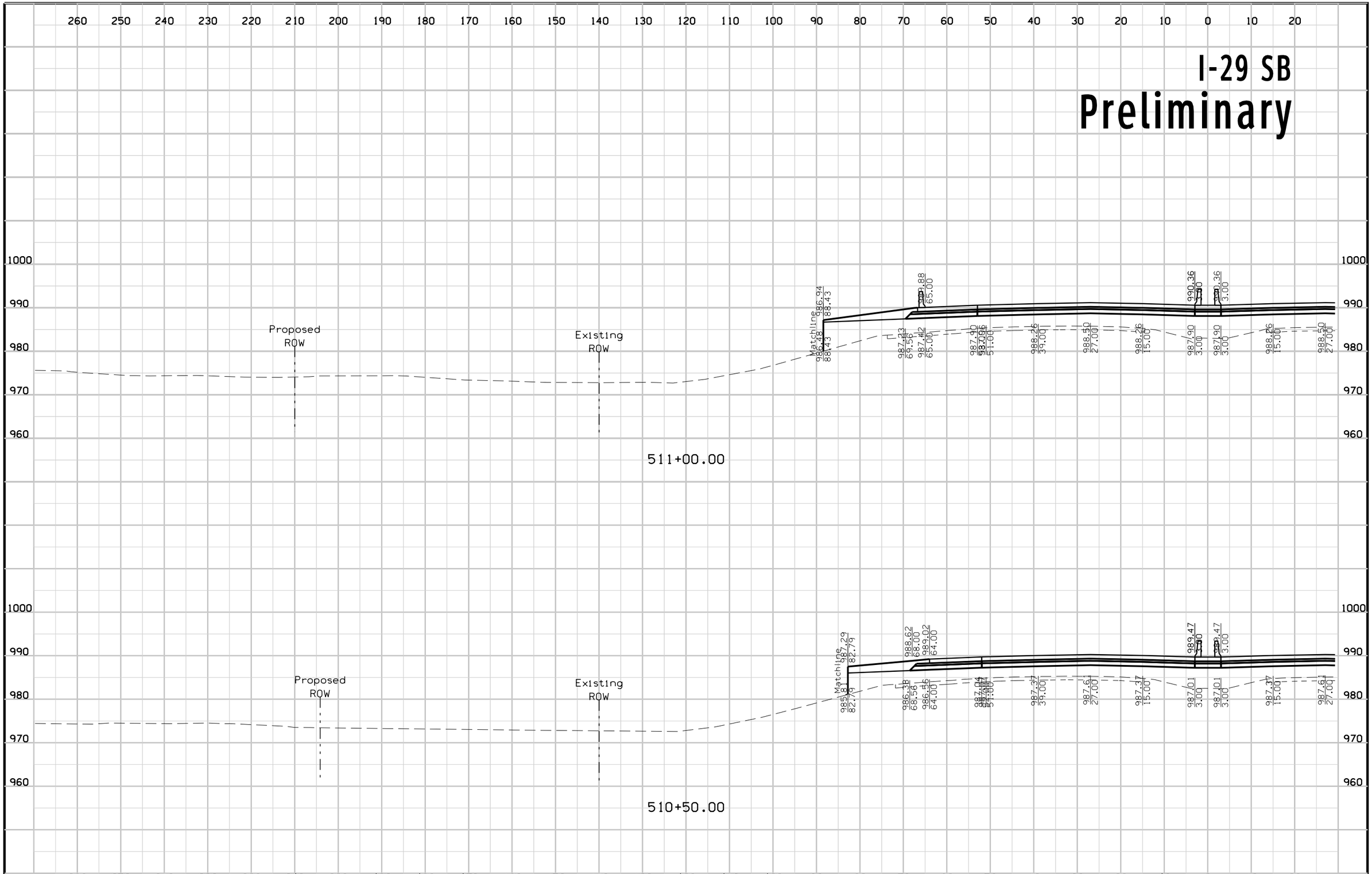
2:44:13 PM 10/23/2017 mtoapanta pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\XSSHT_ML029.sht

I-29 SB

Preliminary



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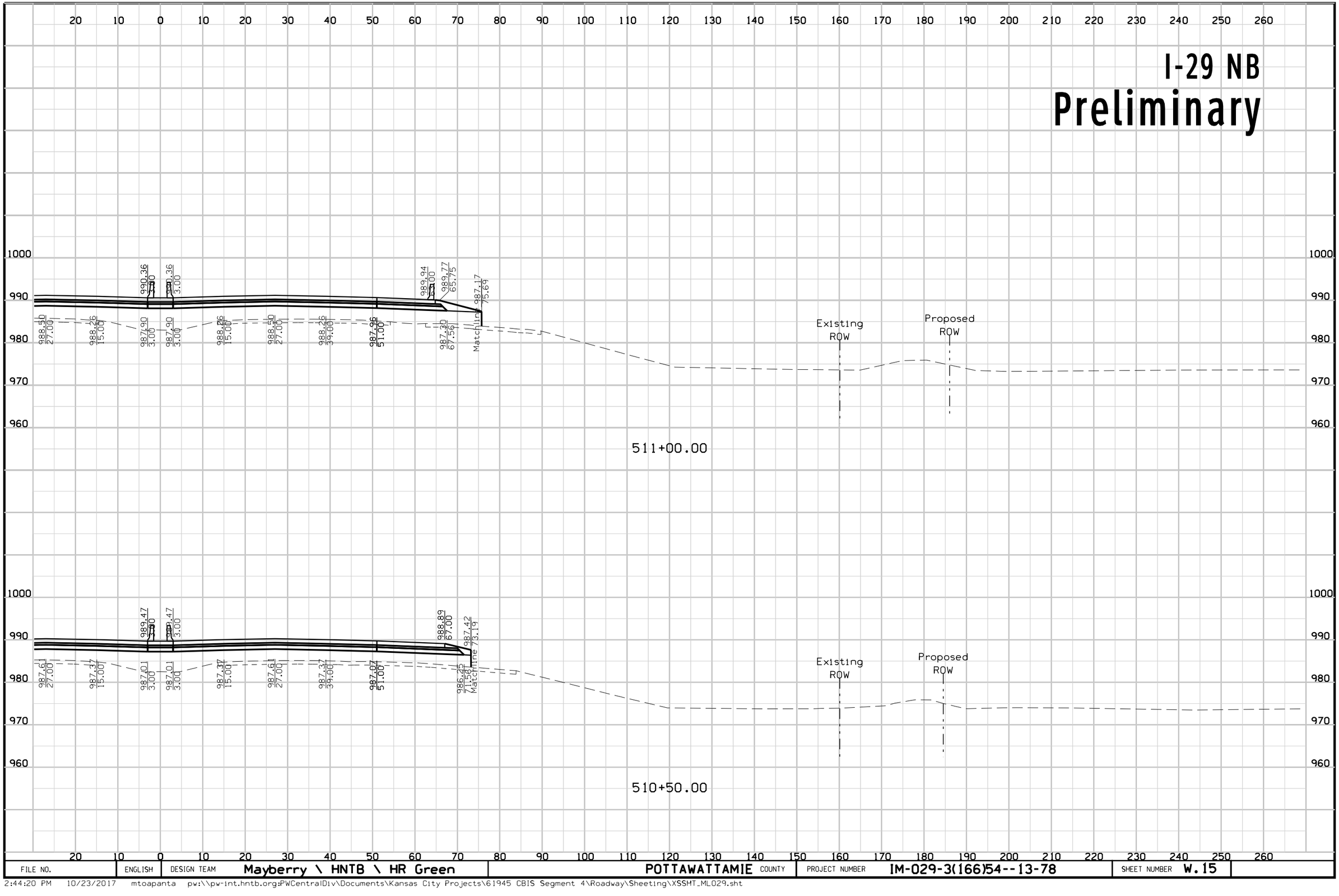
I-29 NB
Preliminary



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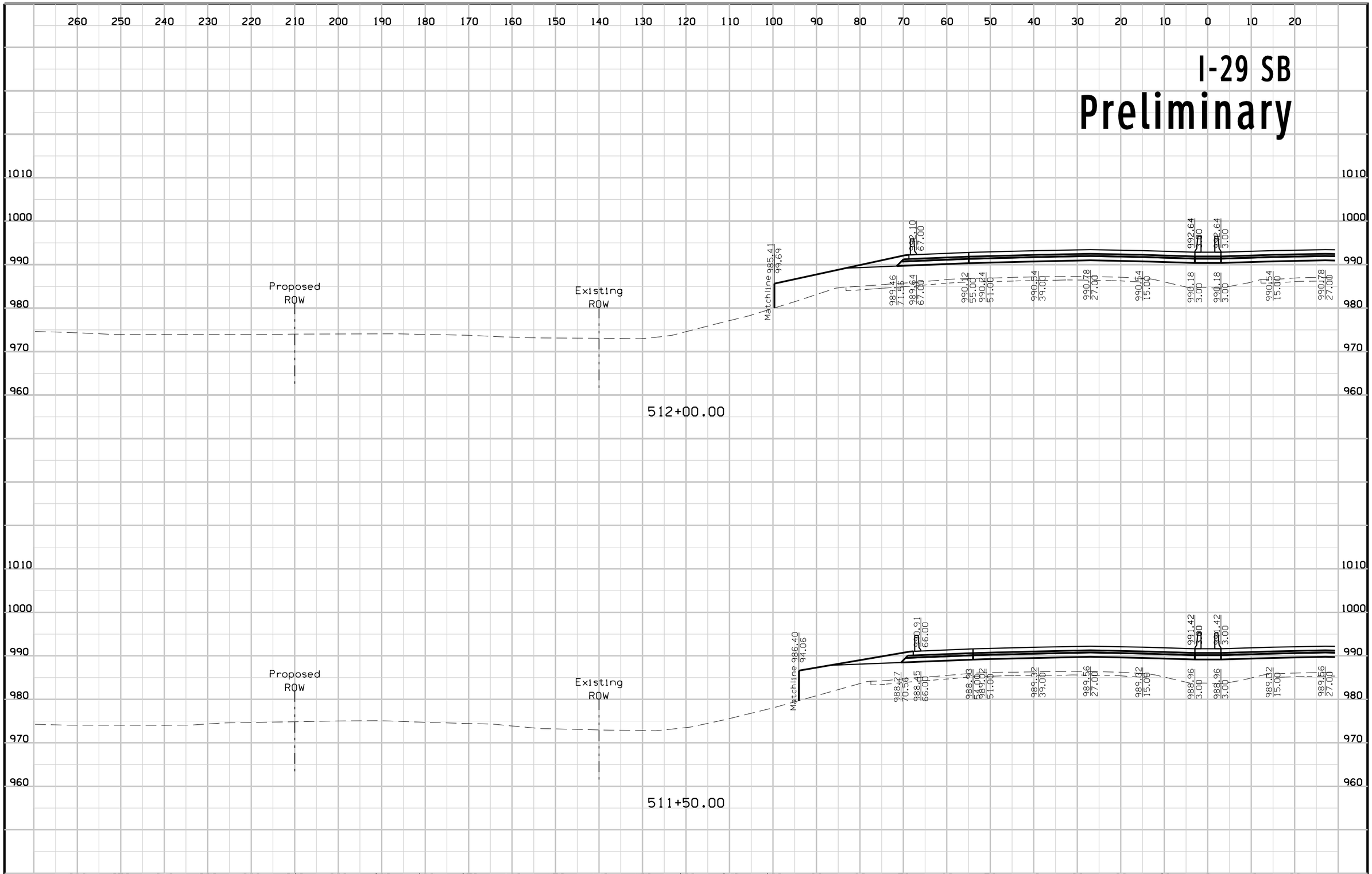
I-29 SB
Preliminary



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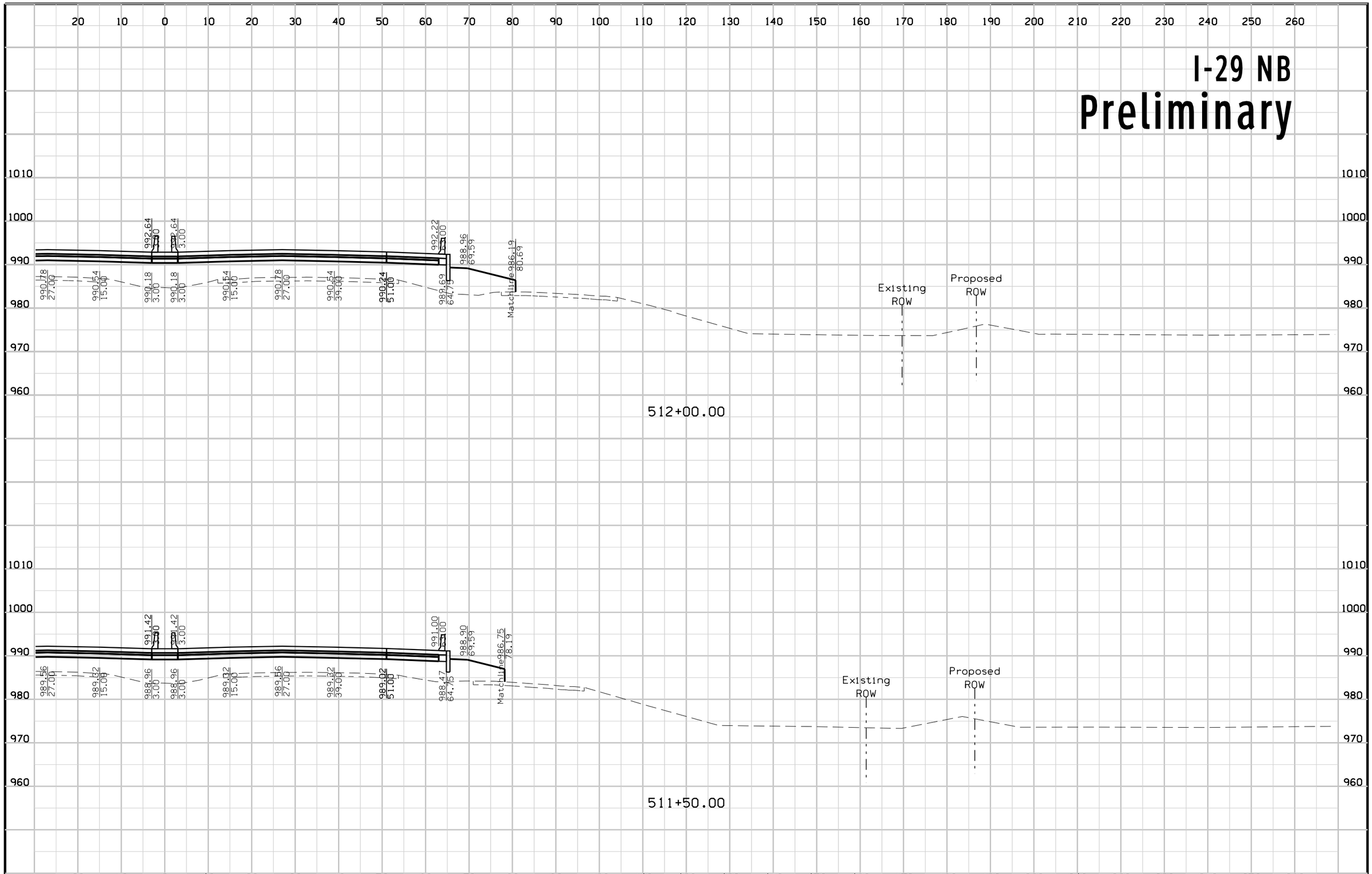
2:44:23 PM 10/23/2017 mtoapanta pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\XSSHT_ML029.sht

I-29 NB
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM		COUNTY	PROJECT NUMBER	SHEET NUMBER
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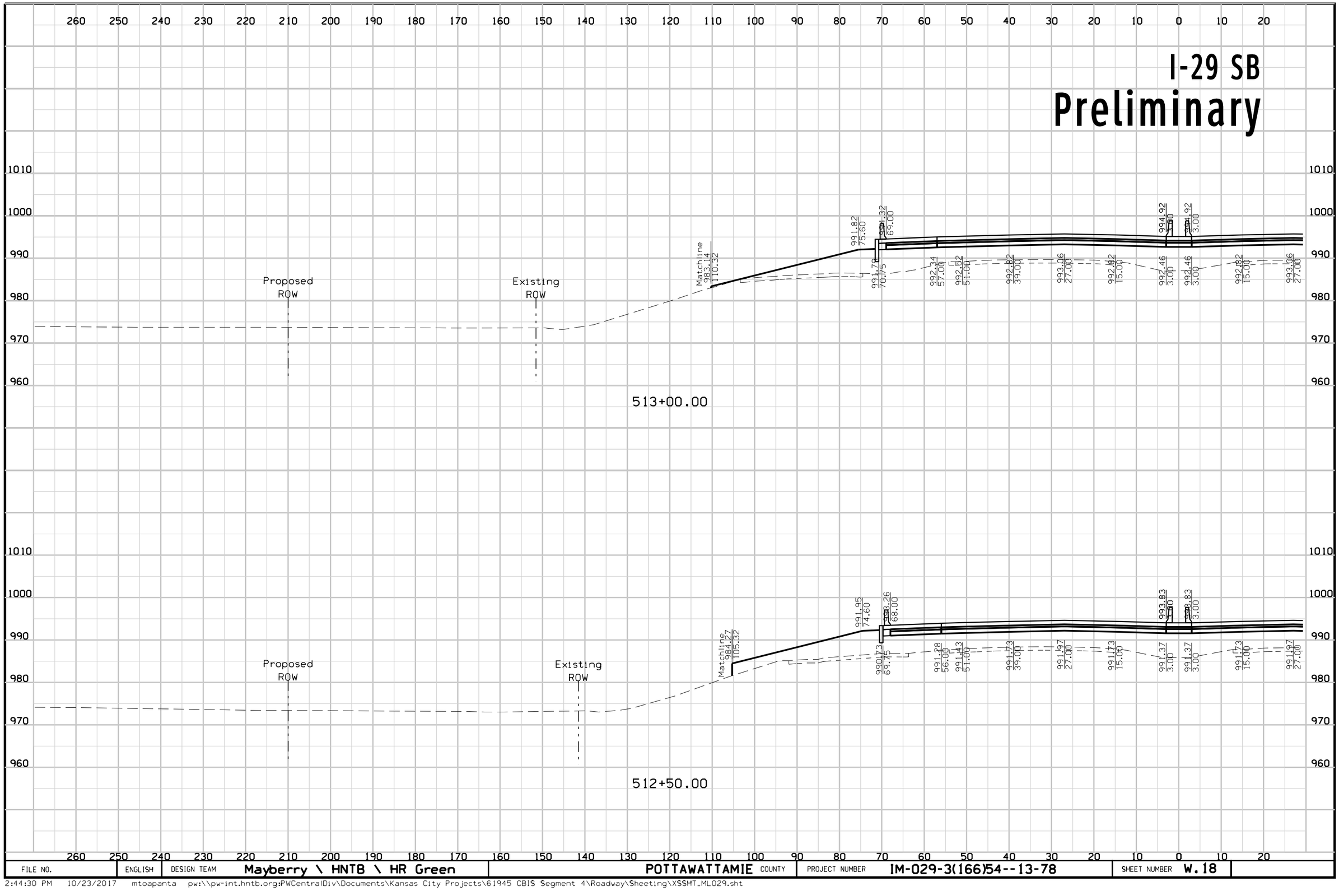
I-29 SB
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER	W.18

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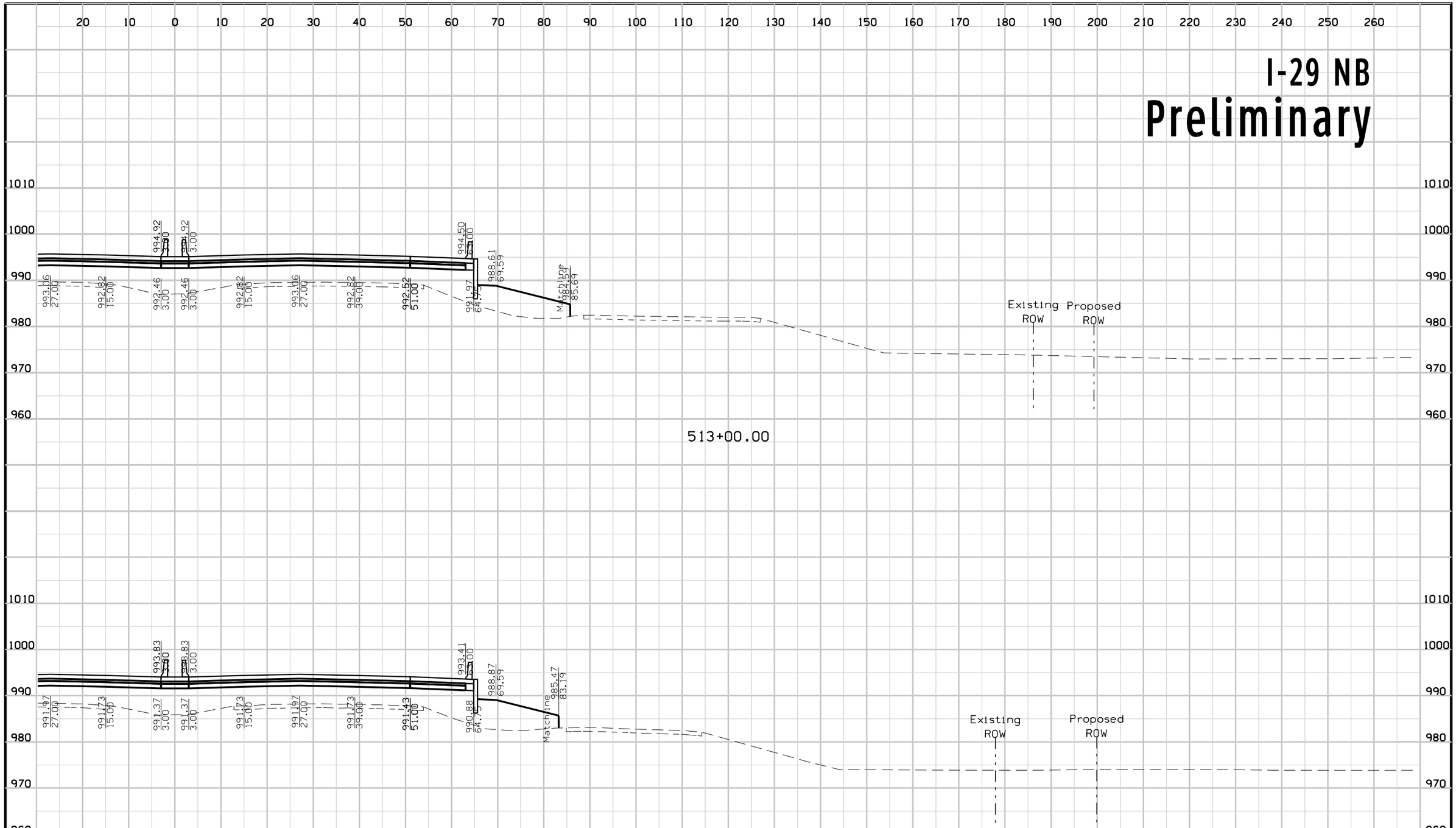
I-29 NB
Preliminary



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I-29 SB
Preliminary

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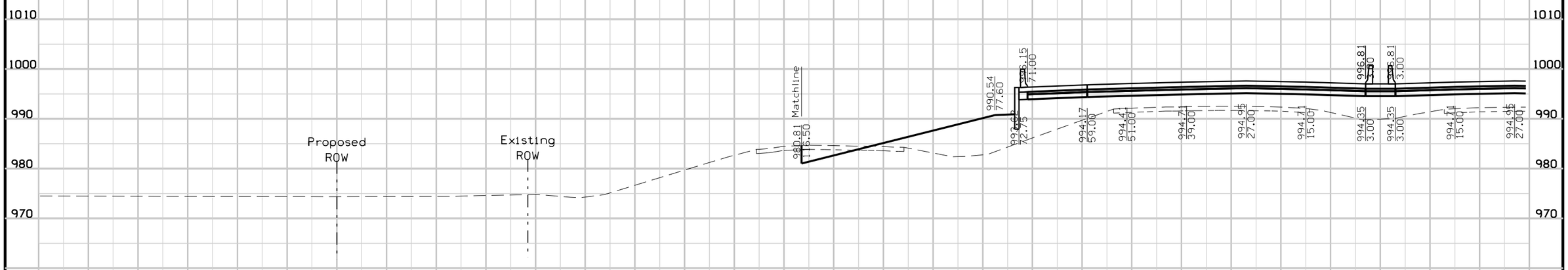

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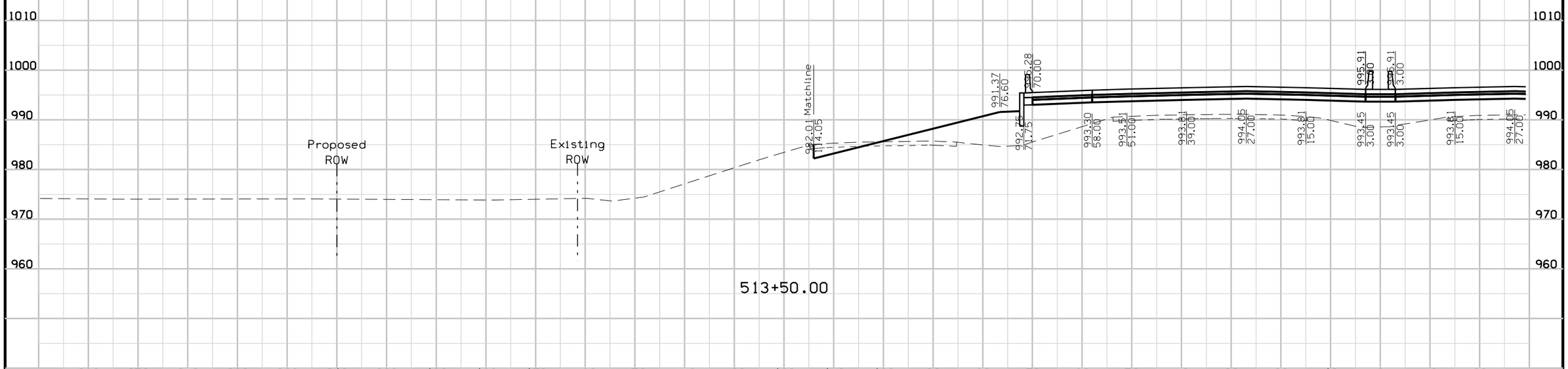

FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER	W.20

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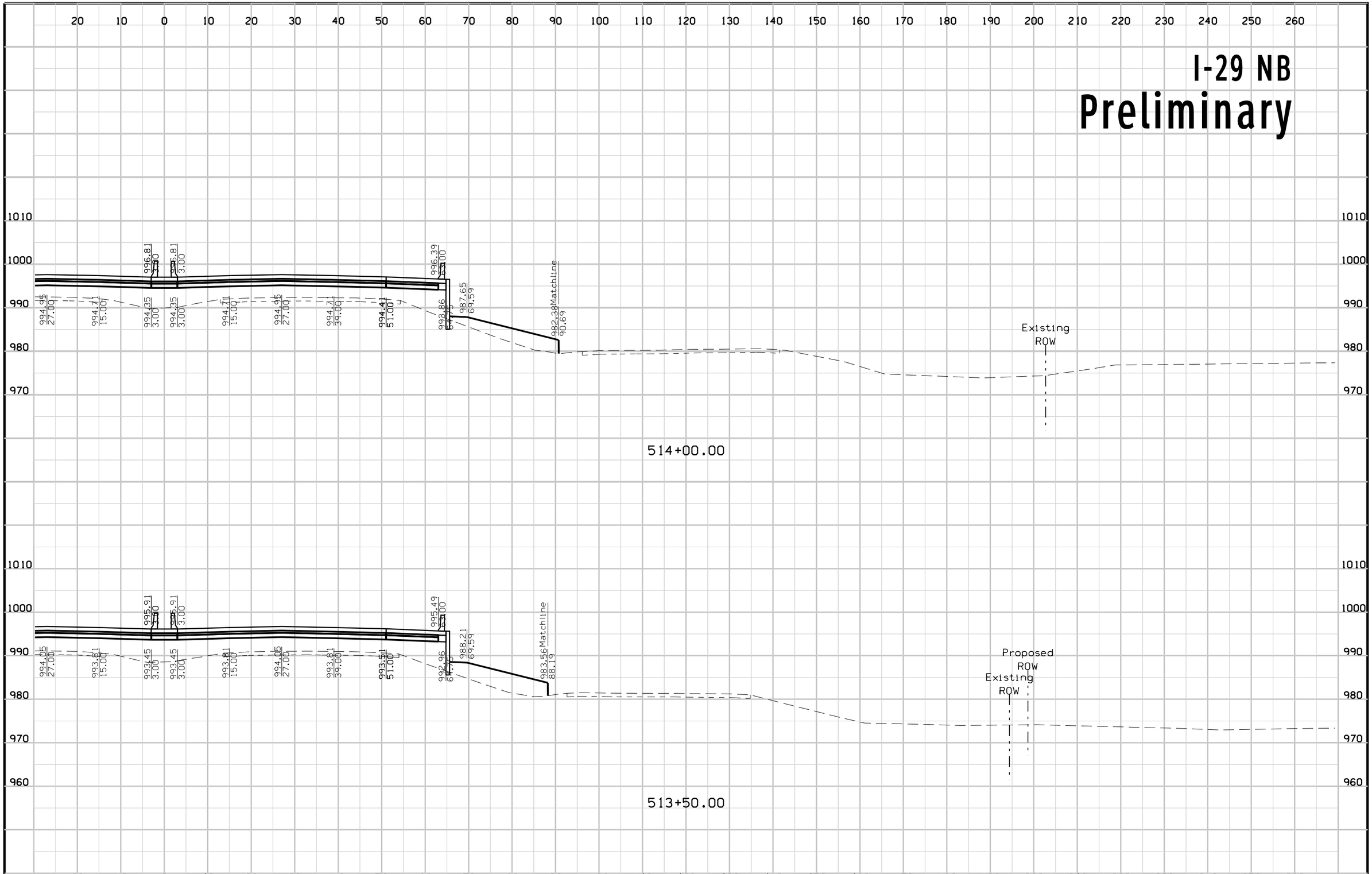
I-29 NB
Preliminary



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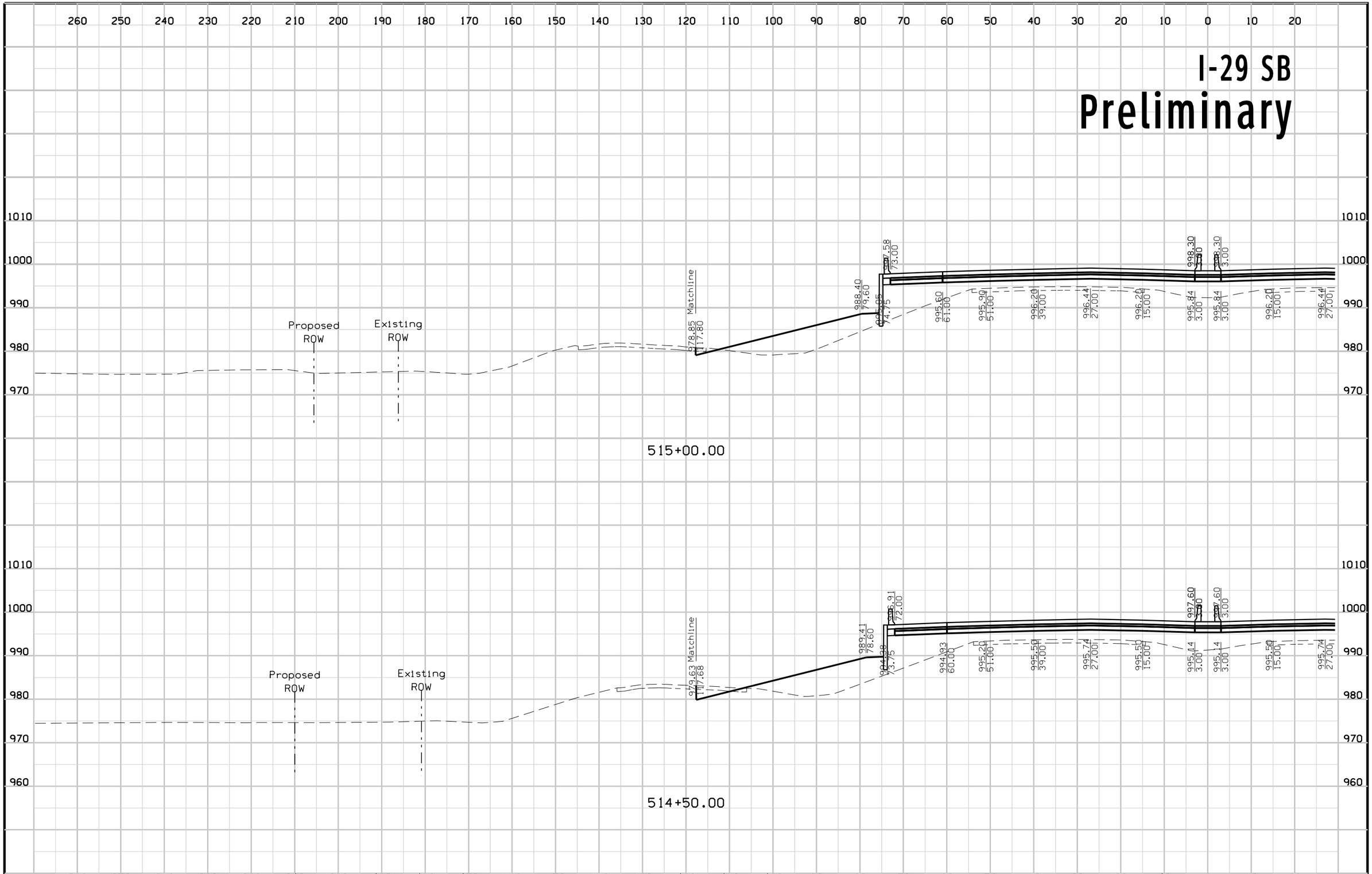
I-29 SB
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER	W.22

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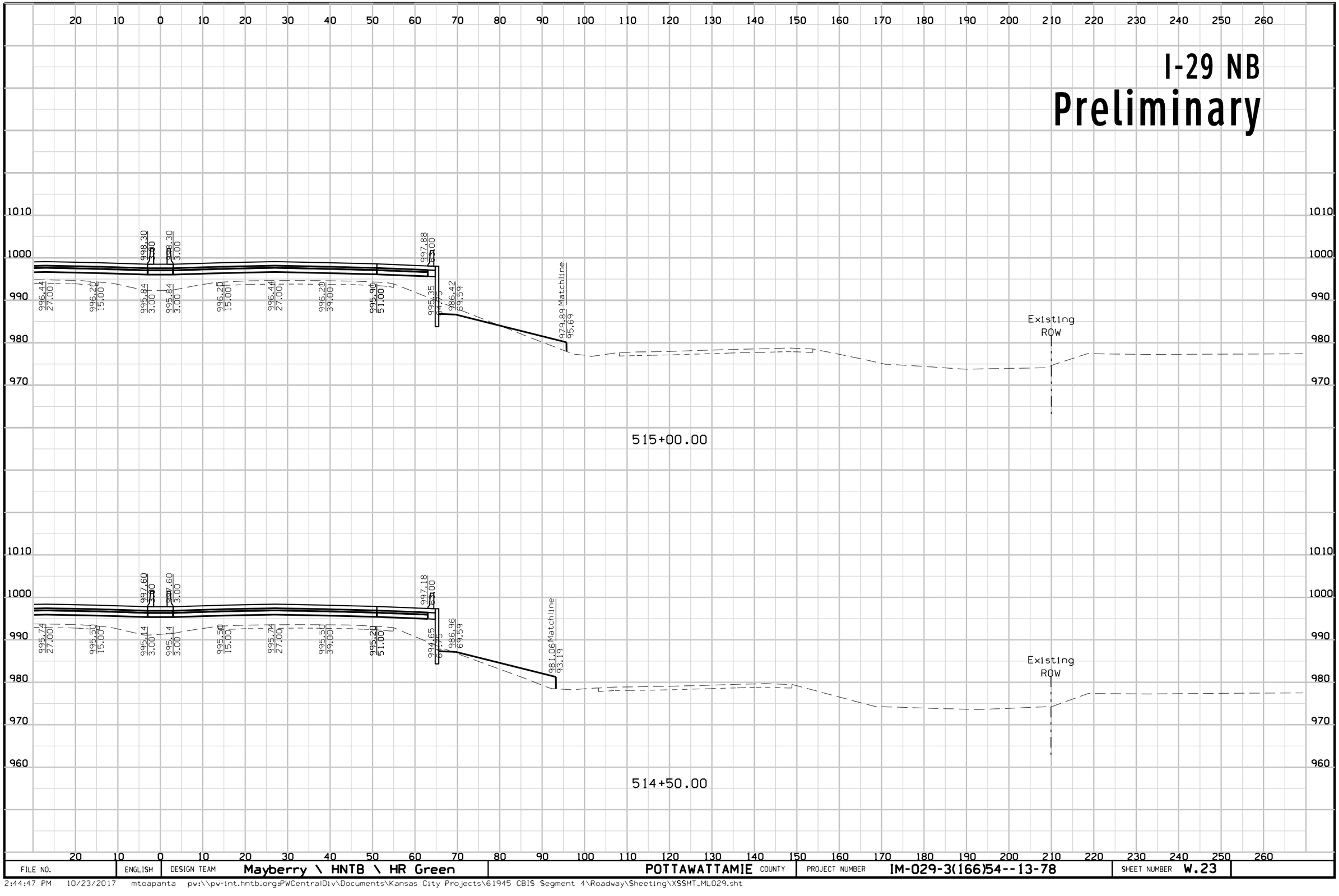
I-29 NB
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER	W.23

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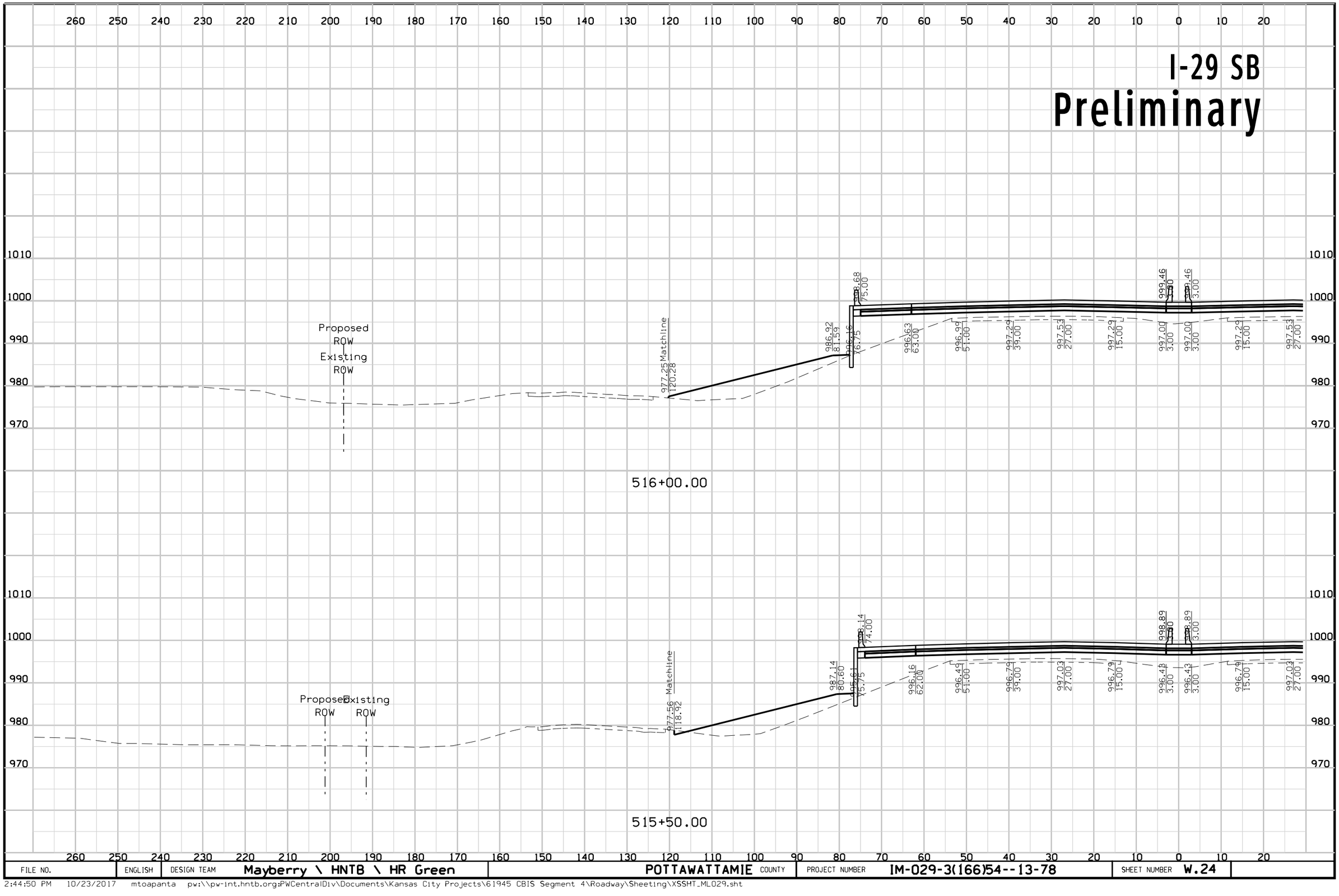
I-29 SB
Preliminary



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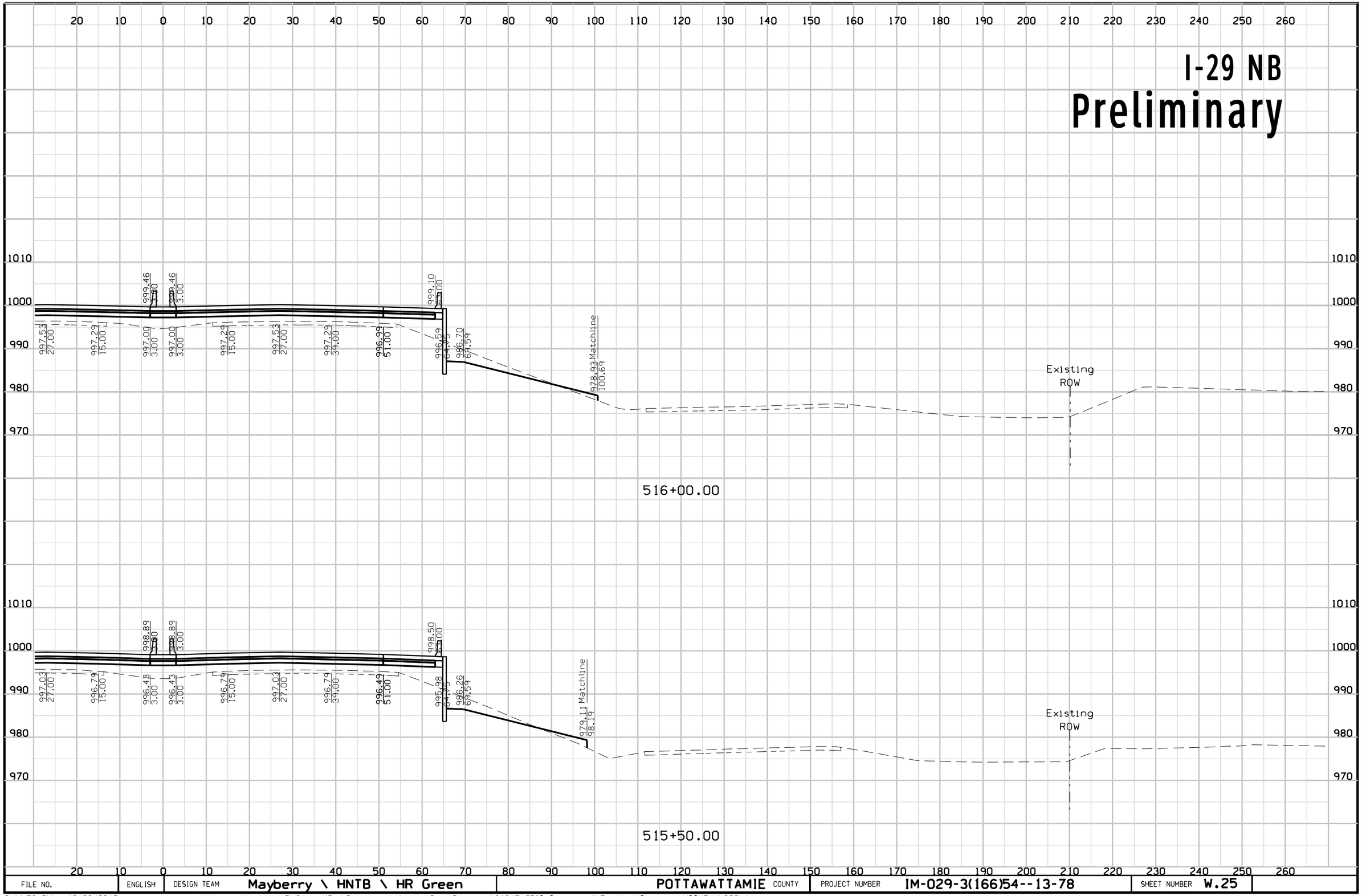
I-29 NB
Preliminary



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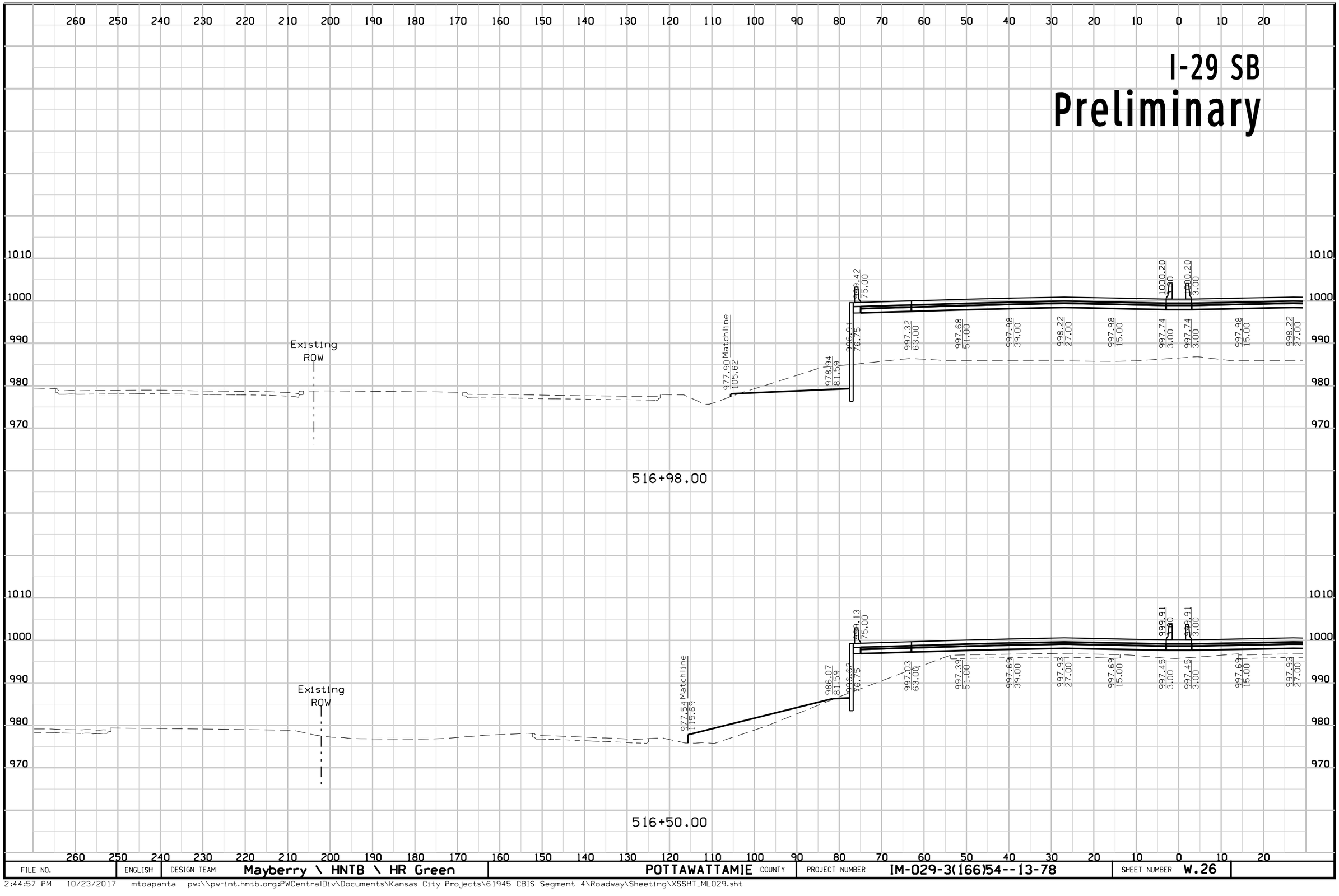
I-29 SB
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER W.26

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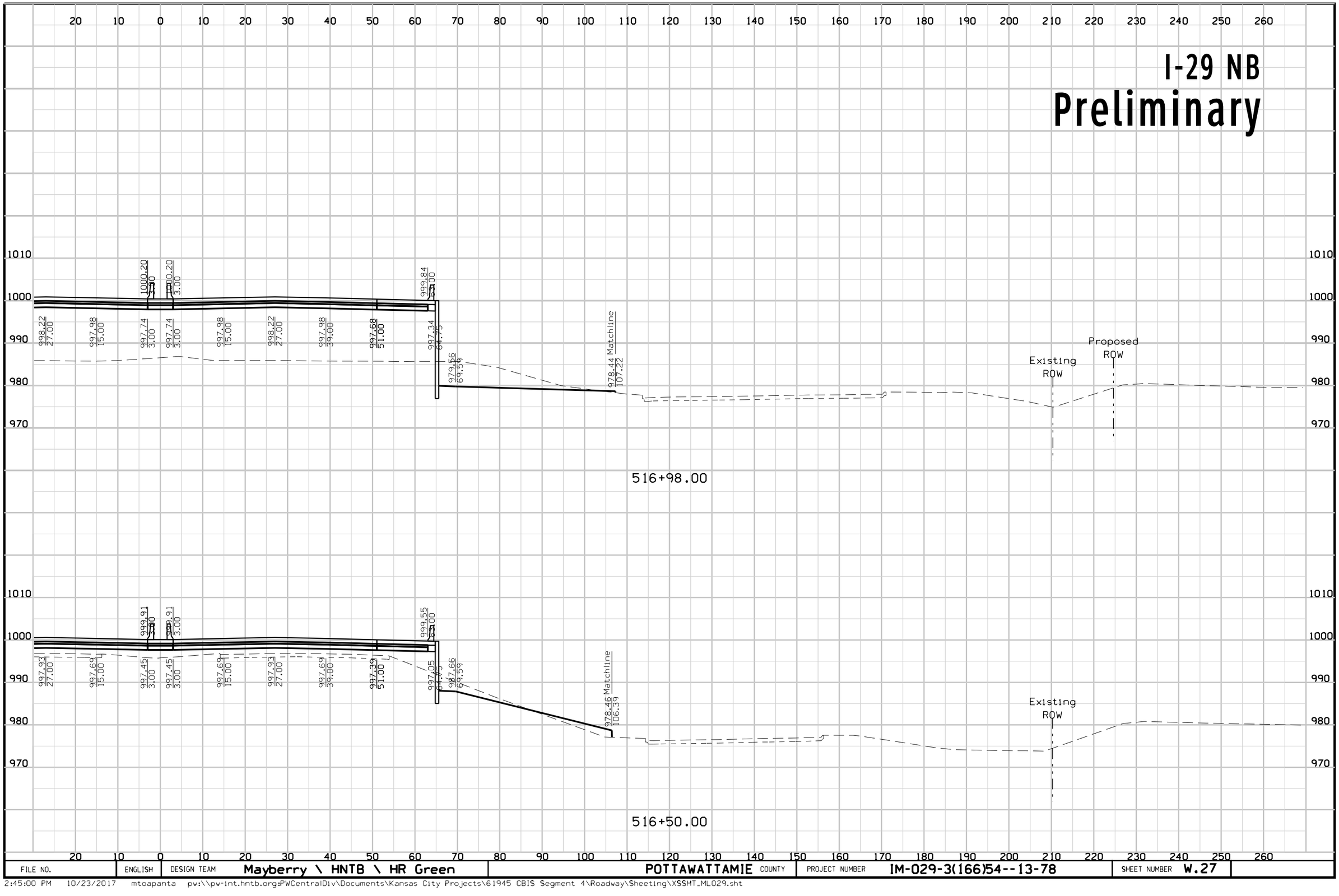
I-29 NB
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER W.27

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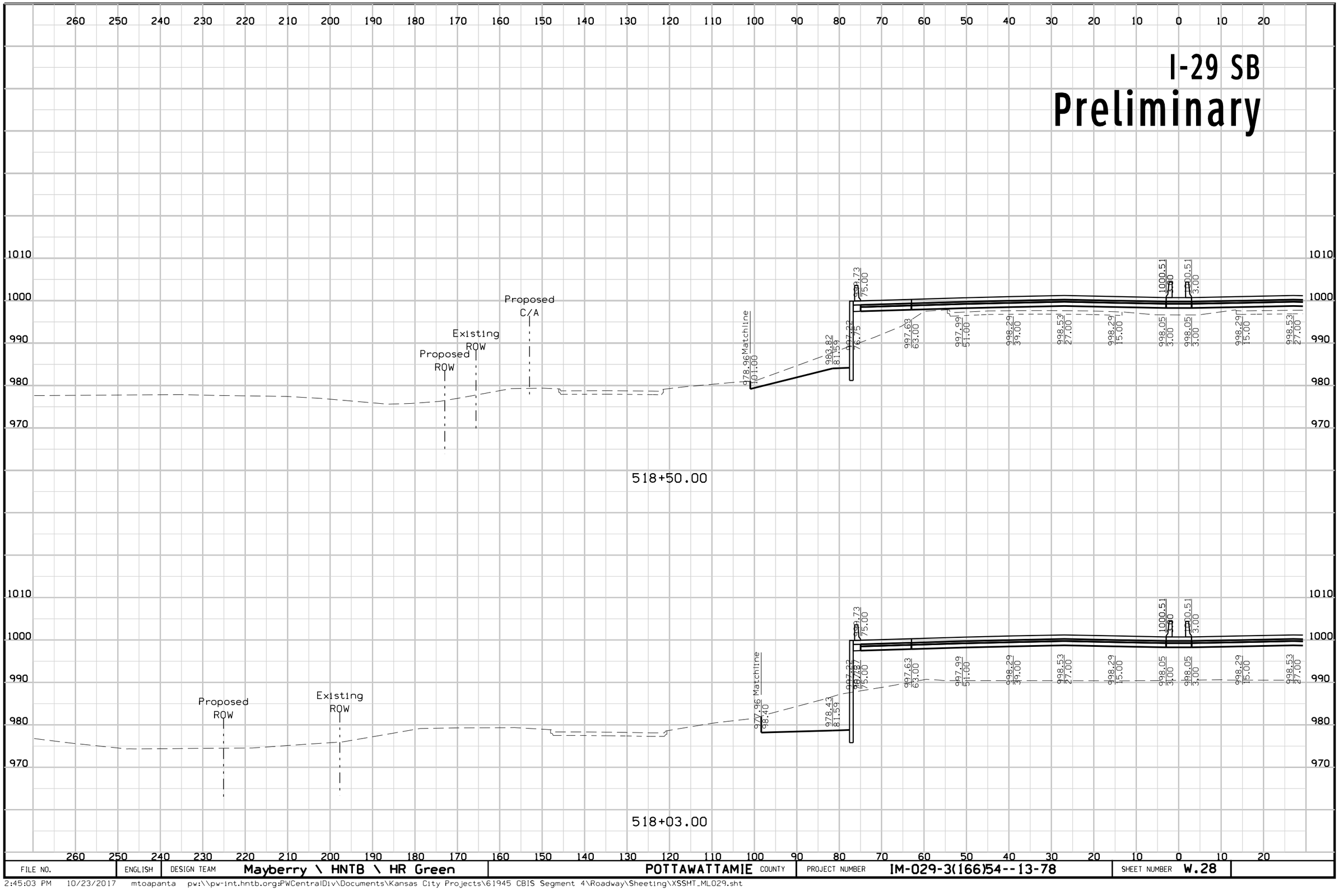
I-29 SB
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER W.28

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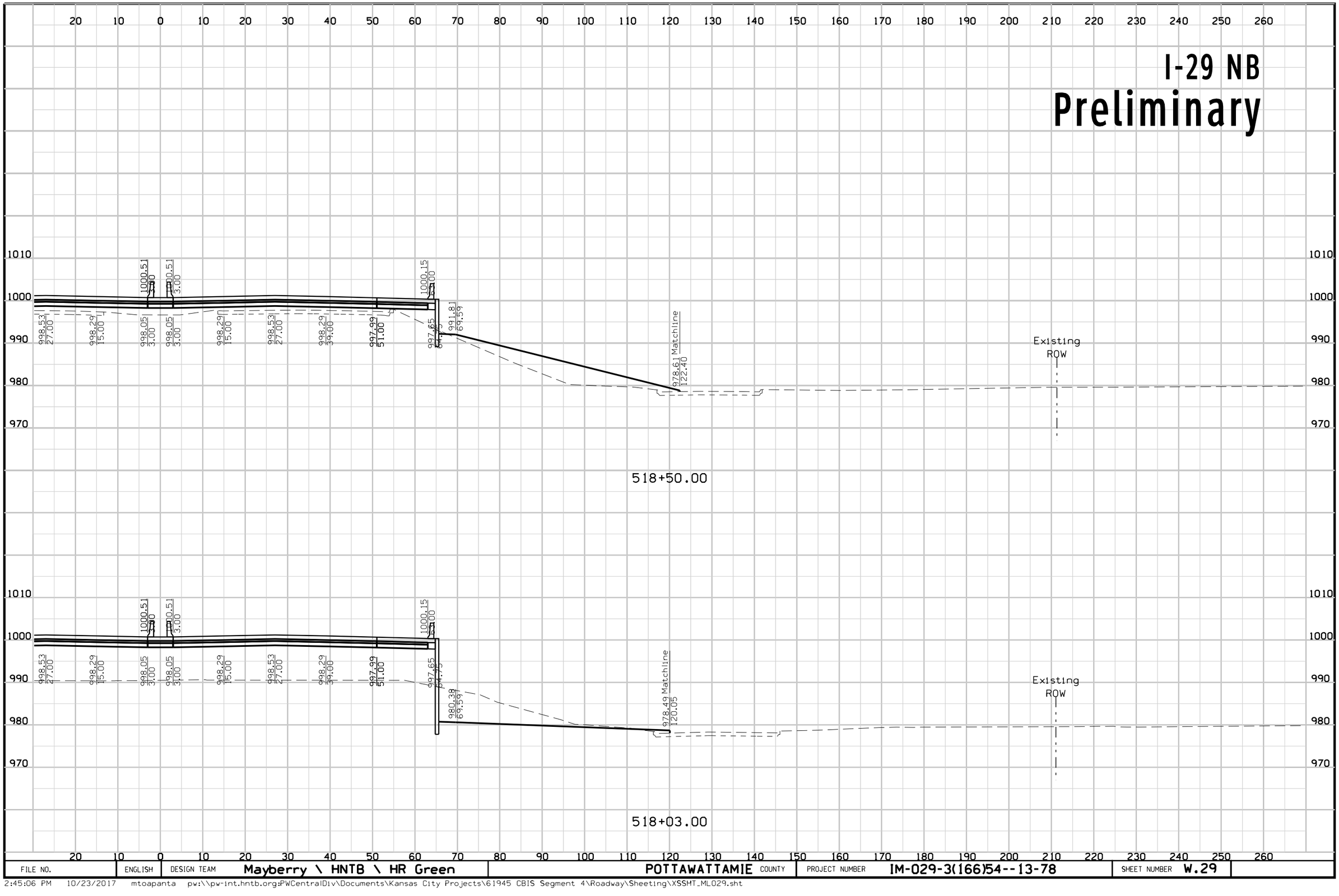
I-29 NB
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER W.29

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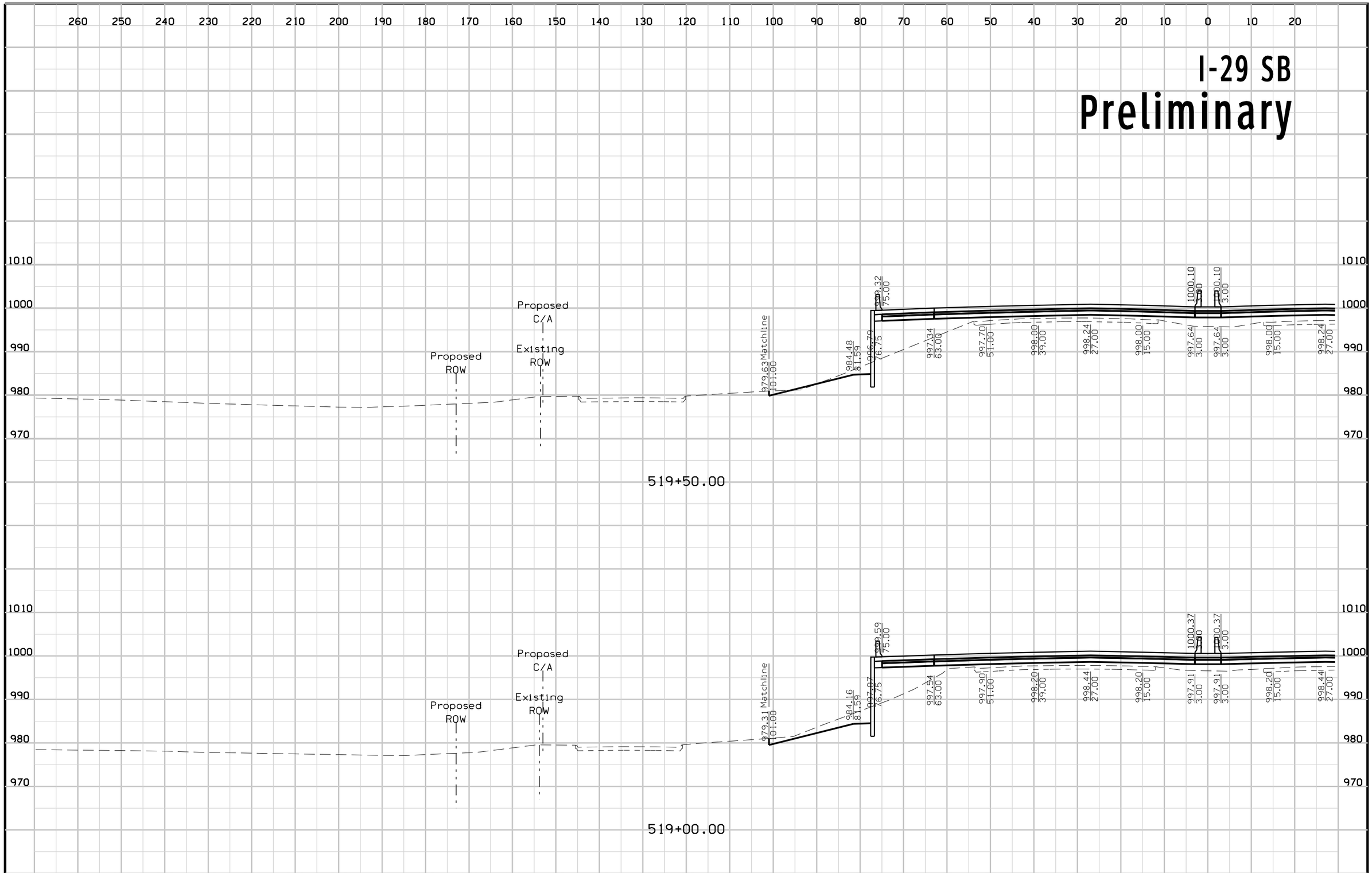
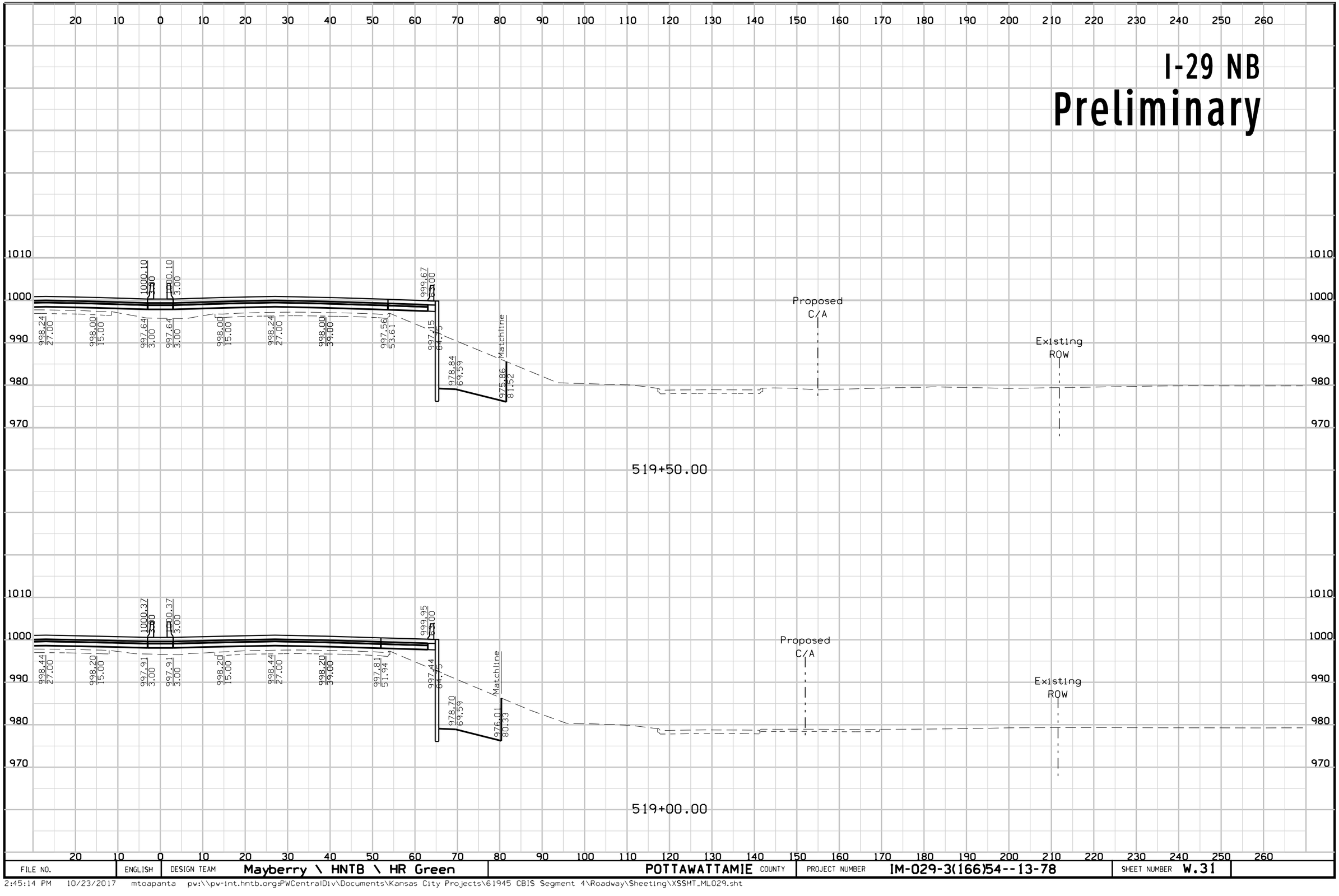
I-29 SB
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER	W.30

2:45:10 PM 10/23/2017 mtoapanta pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\XSSHT_ML029.sht

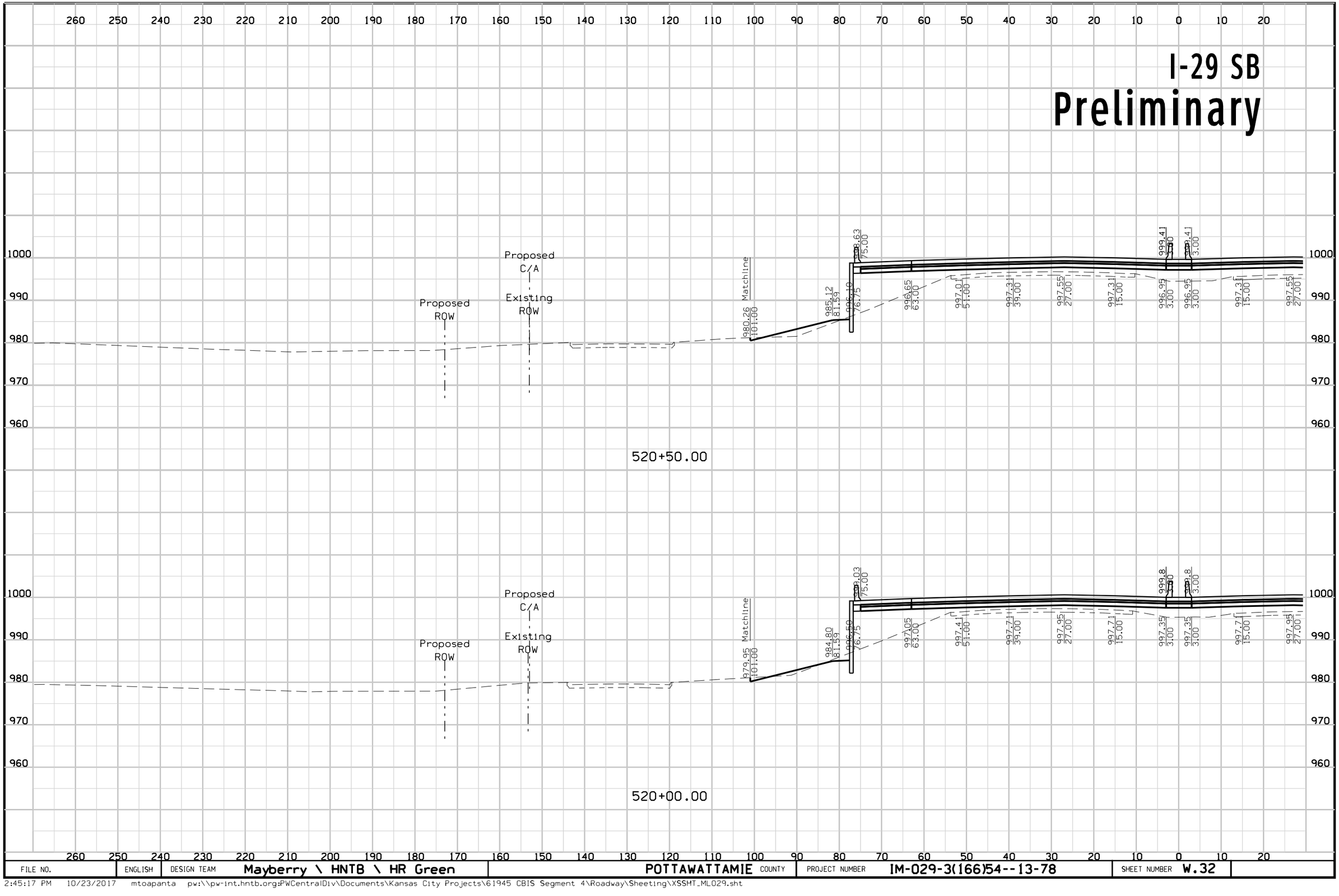
I-29 NB
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER W.31

2:45:14 PM 10/23/2017 mtoapanta pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\XSSHT_ML029.sht

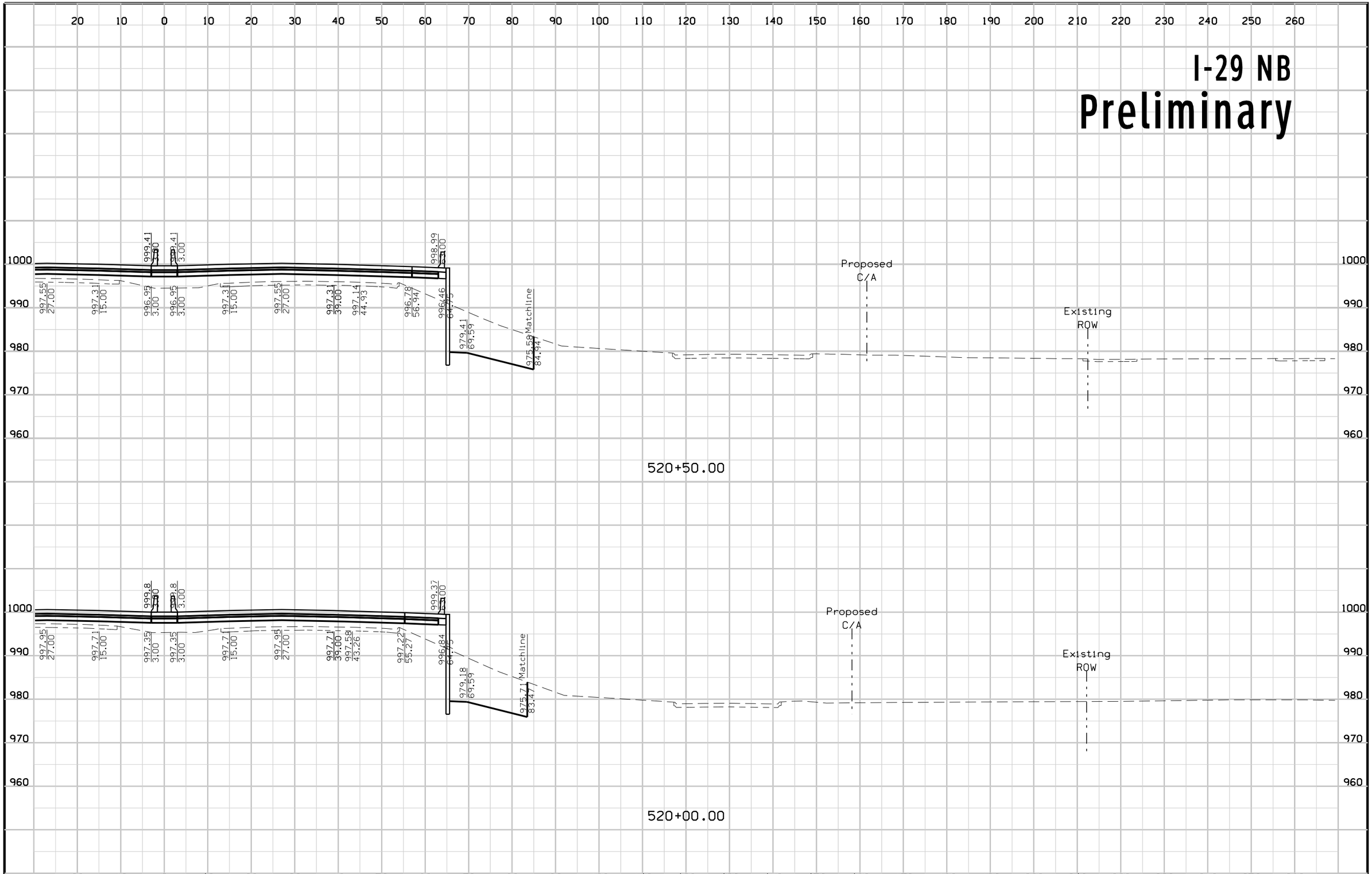
I-29 SB
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER W.32

2:45:17 PM 10/23/2017 mtoapanta pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\XSSHT_ML029.sht

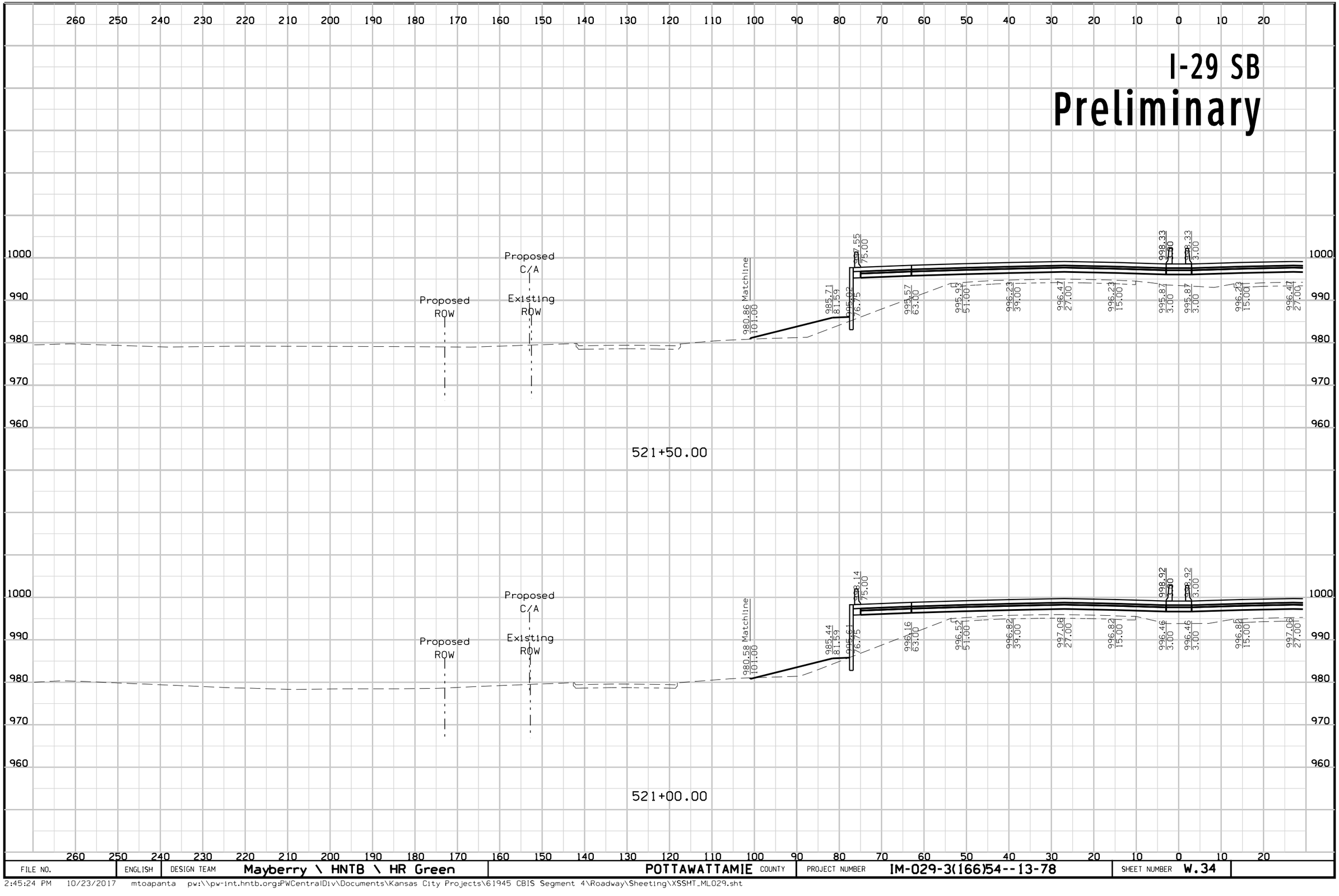
I-29 NB
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER	W.33

2:45:20 PM 10/23/2017 mtoapanta pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\XSSHT_ML029.sht

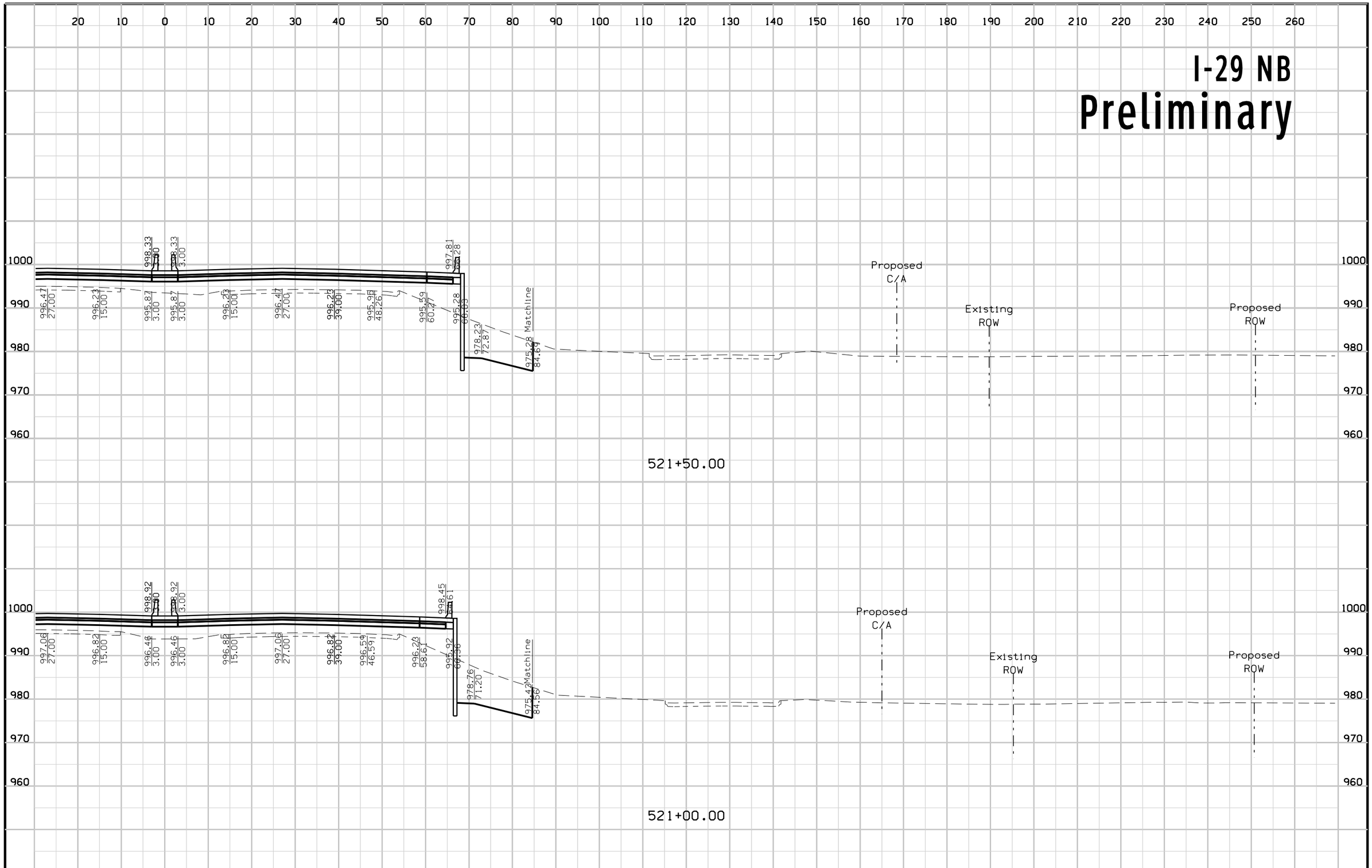
I-29 SB
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER	W.34

2:45:24 PM 10/23/2017 mtoapanta pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\XSSHT_ML029.sht

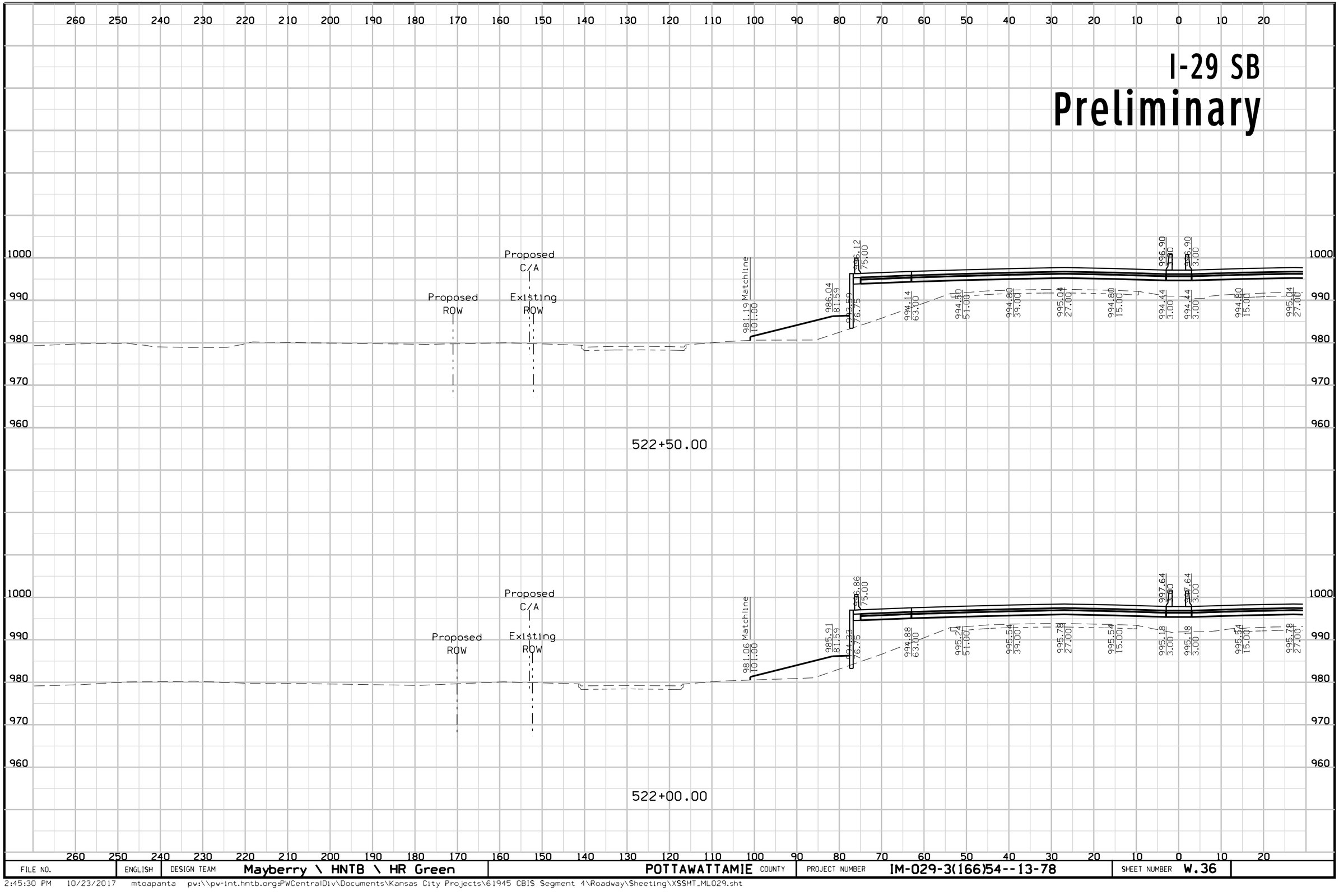
I-29 NB
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER W.35

2:45:27 PM 10/23/2017 mtoapanta pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\XSSHT_ML029.sht

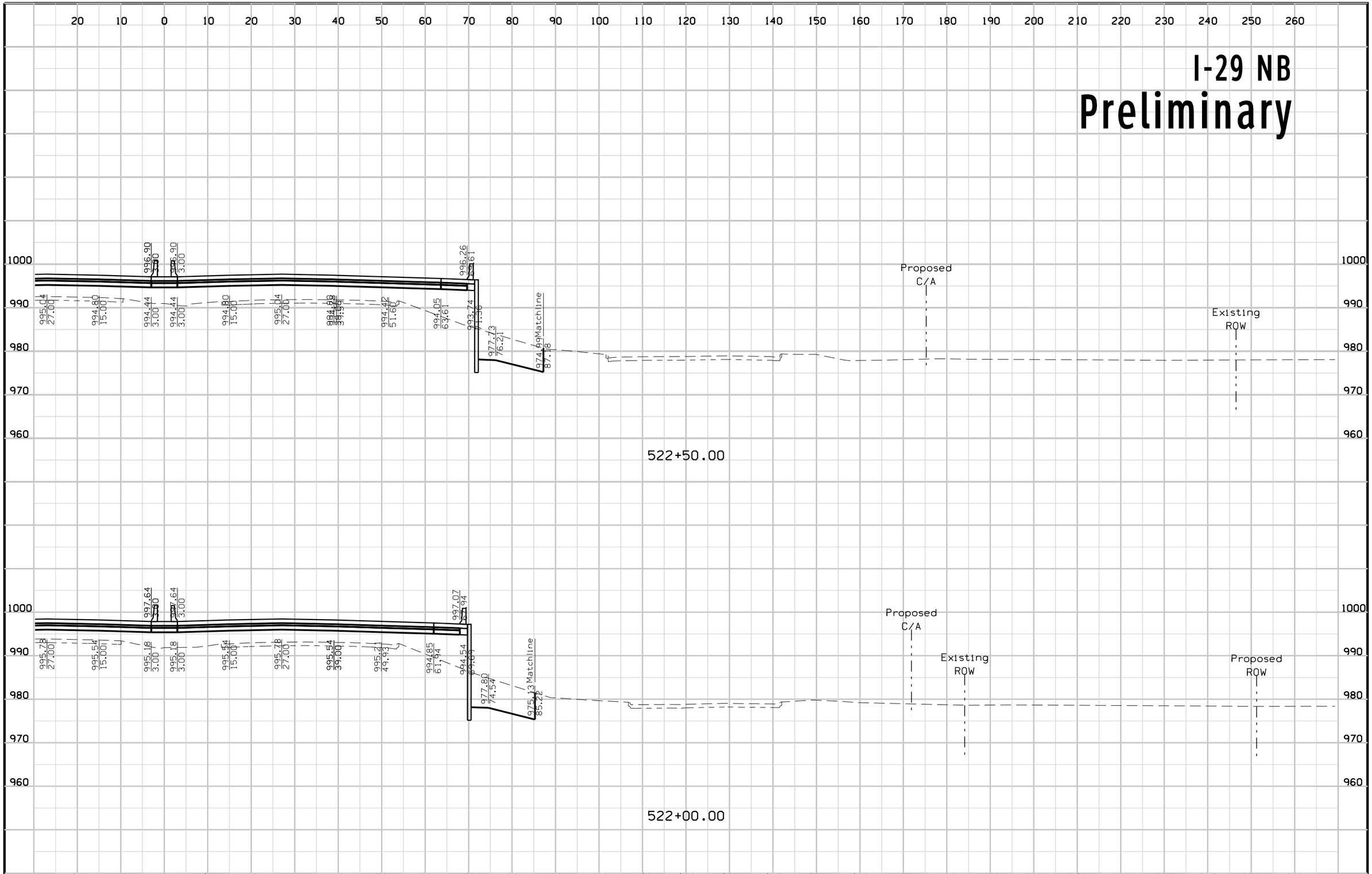
I-29 SB
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER	W.36

2:45:30 PM 10/23/2017 mtoapanta pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\XSSHT_ML029.sht

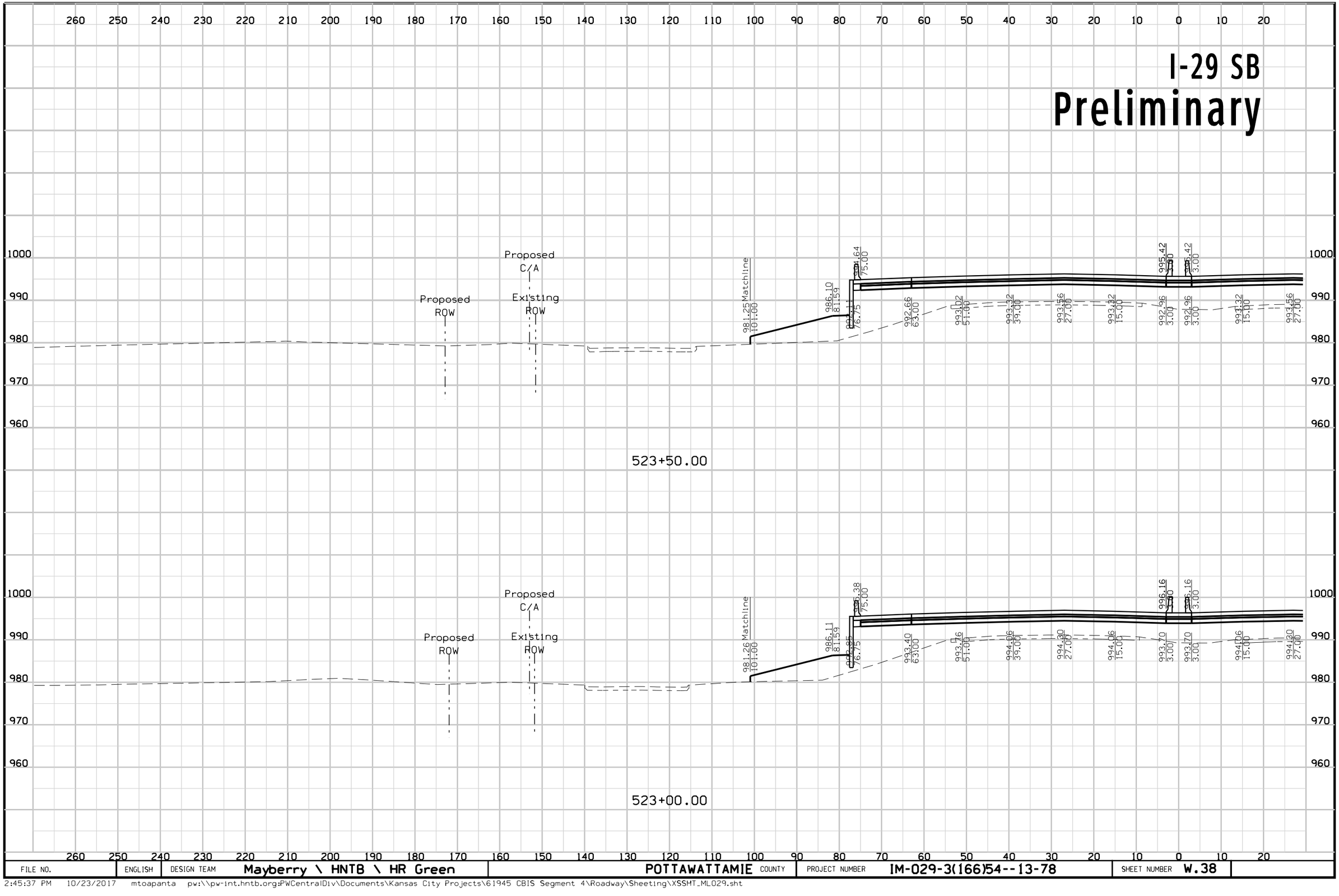
I-29 NB
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER	W.37

2:45:34 PM 10/23/2017 mtoapanta pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\XSSHT_ML029.sht

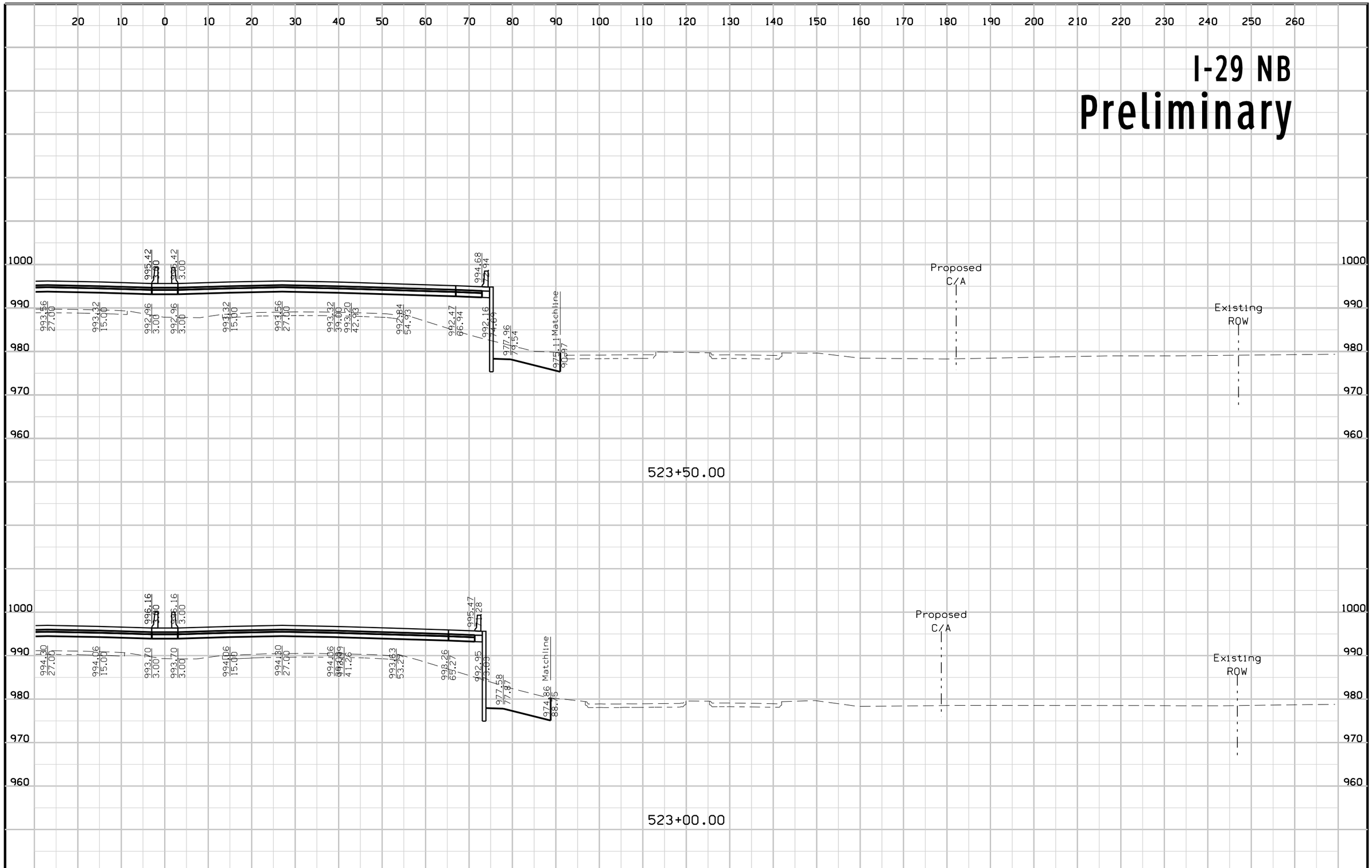
I-29 SB
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER	W.38

2:45:37 PM 10/23/2017 mtoapanta pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\XSSHT_ML029.sht

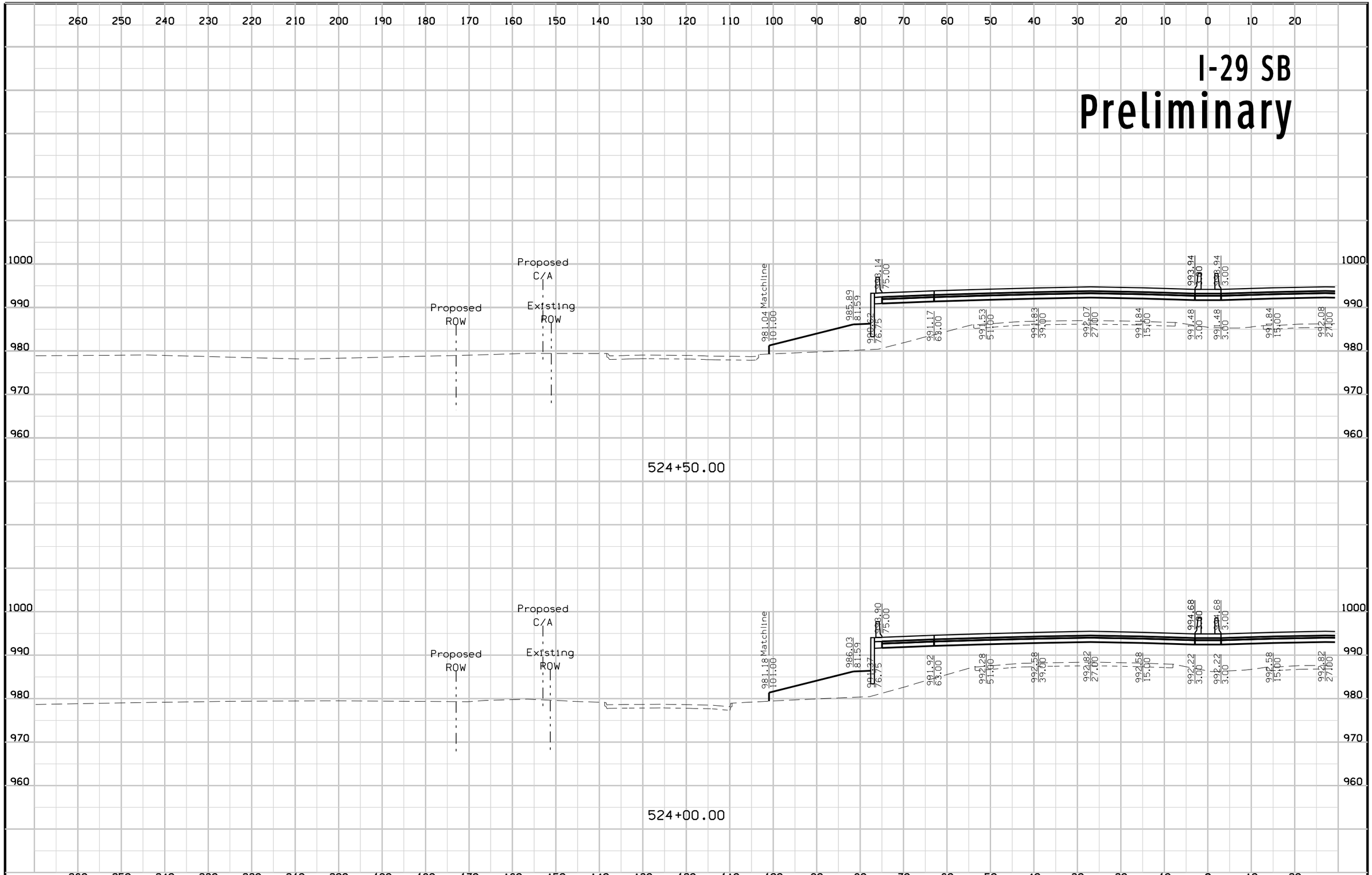
I-29 NB
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER W.39

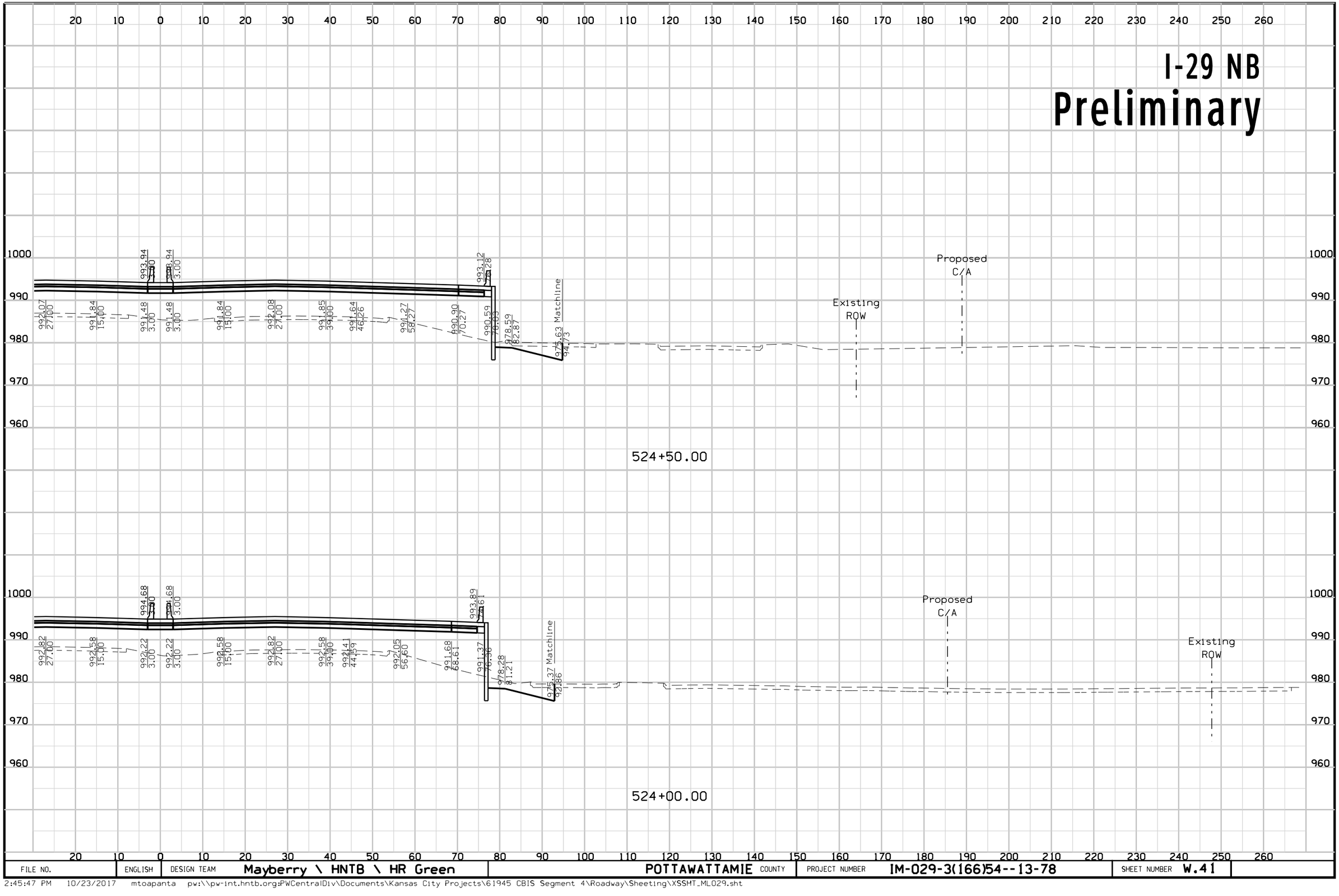
2:45:40 PM 10/23/2017 mtoapanta pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\XSSHT_ML029.sht

I-29 SB
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER	W.40

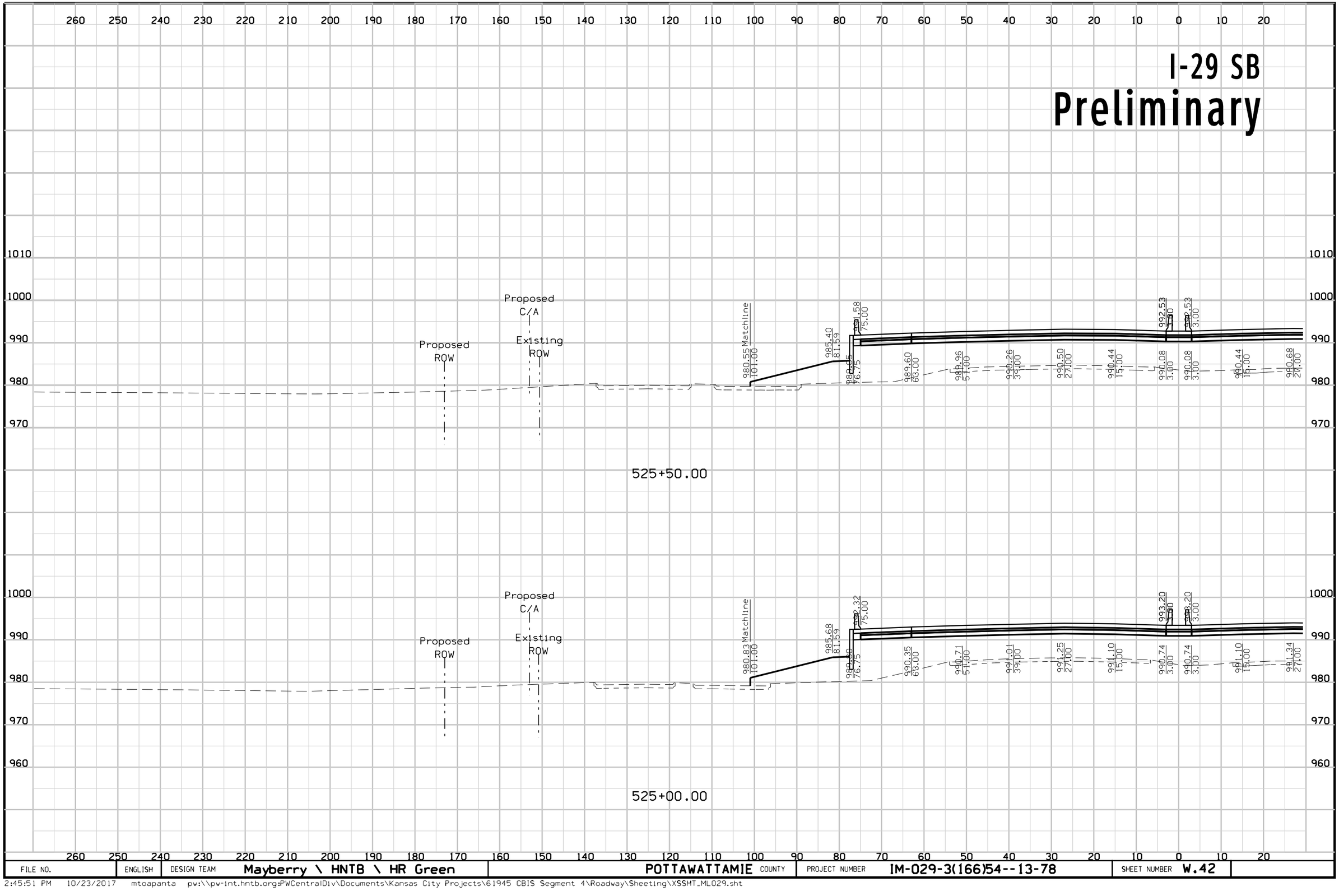
I-29 NB
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER W.41

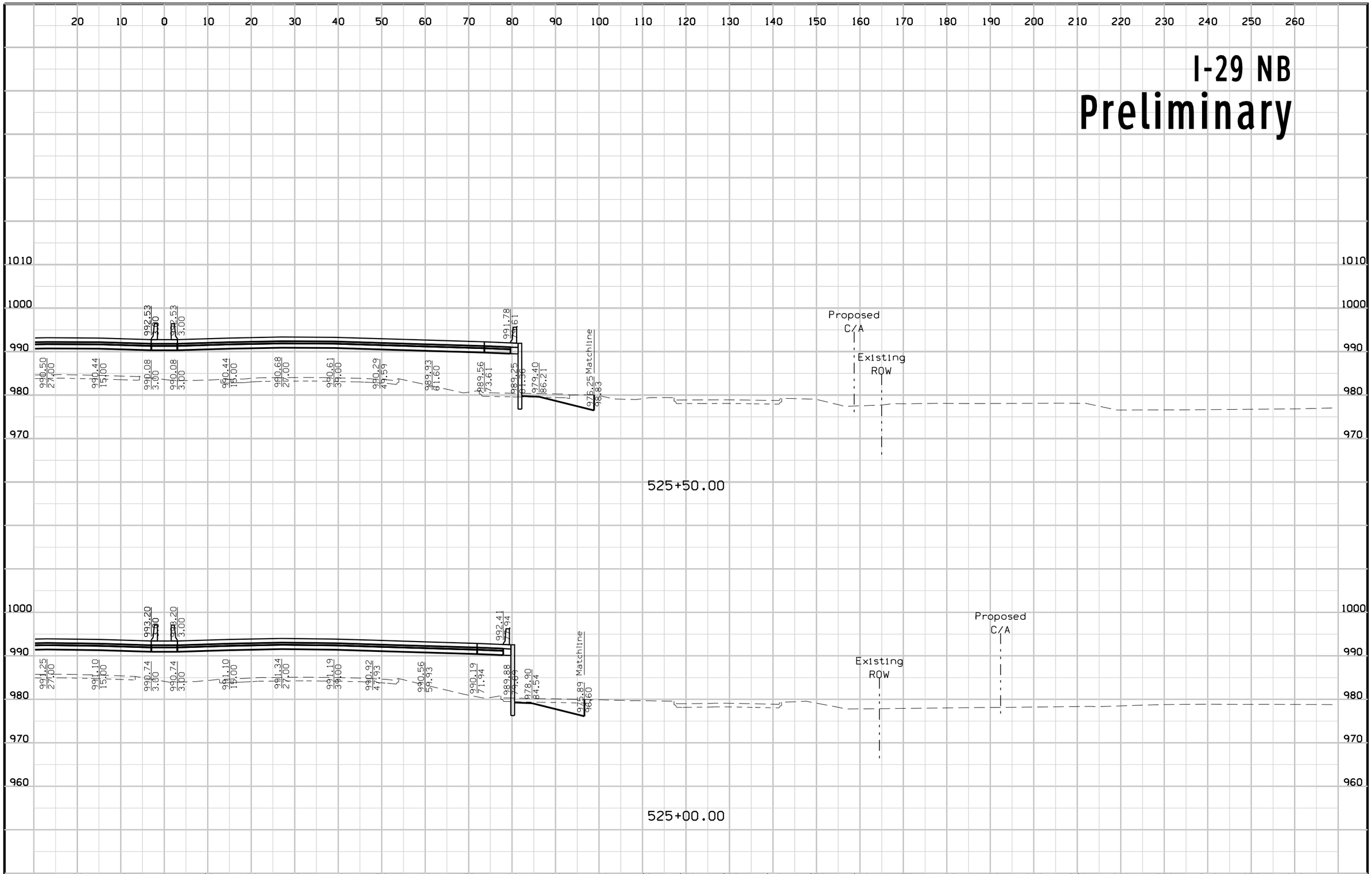
2:45:47 PM 10/23/2017 mtoapanta pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\XSSHT_ML029.sht

I-29 SB
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER	W.42

I-29 NB
Preliminary

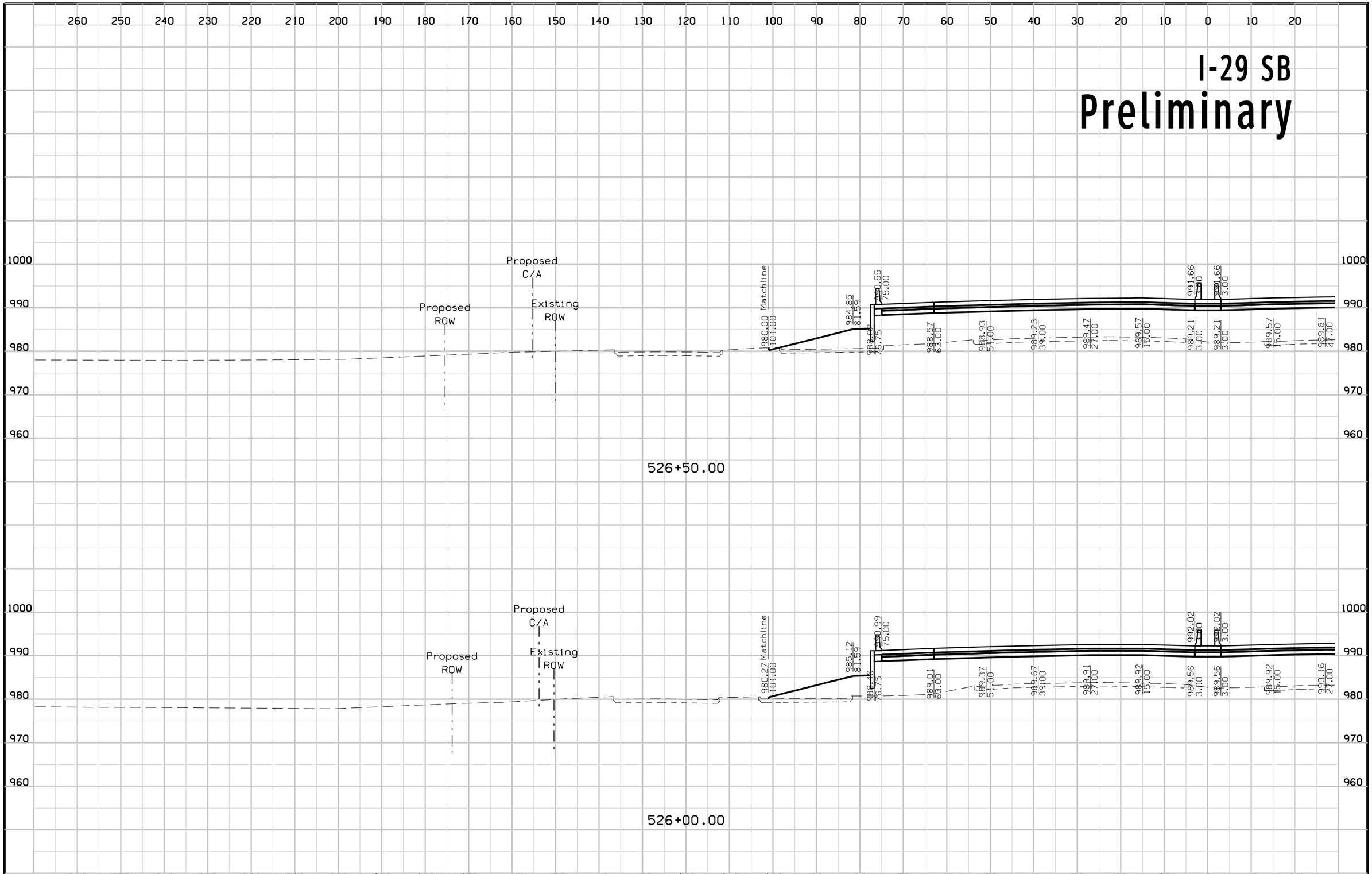


FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER W.43

2:45:54 PM 10/23/2017 mtoapanta pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\XSSHT_ML029.sht

I-29 SB

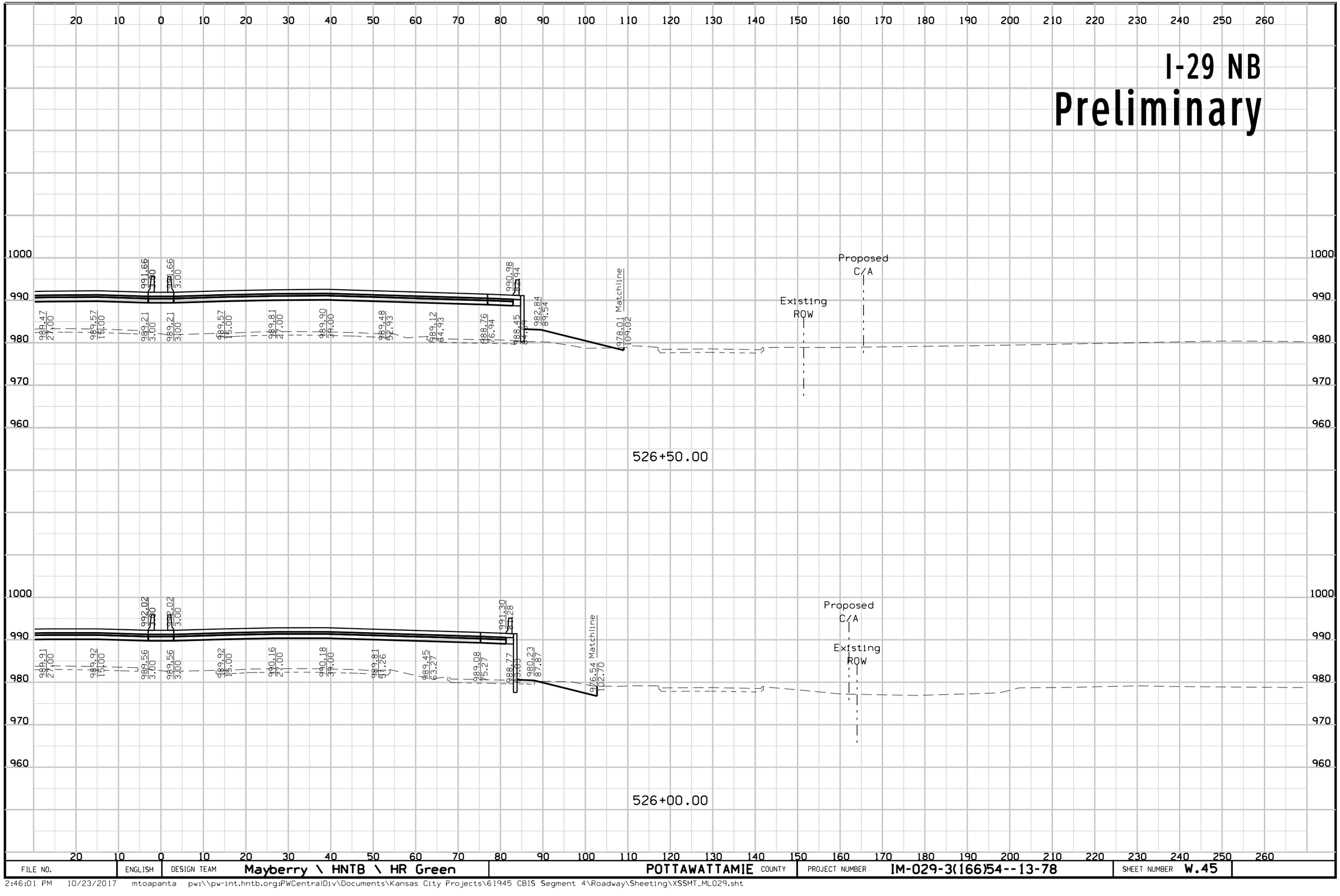
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER	W.44

2:45:57 PM 10/23/2017 mtoapanta pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\XSSHT_ML029.sht

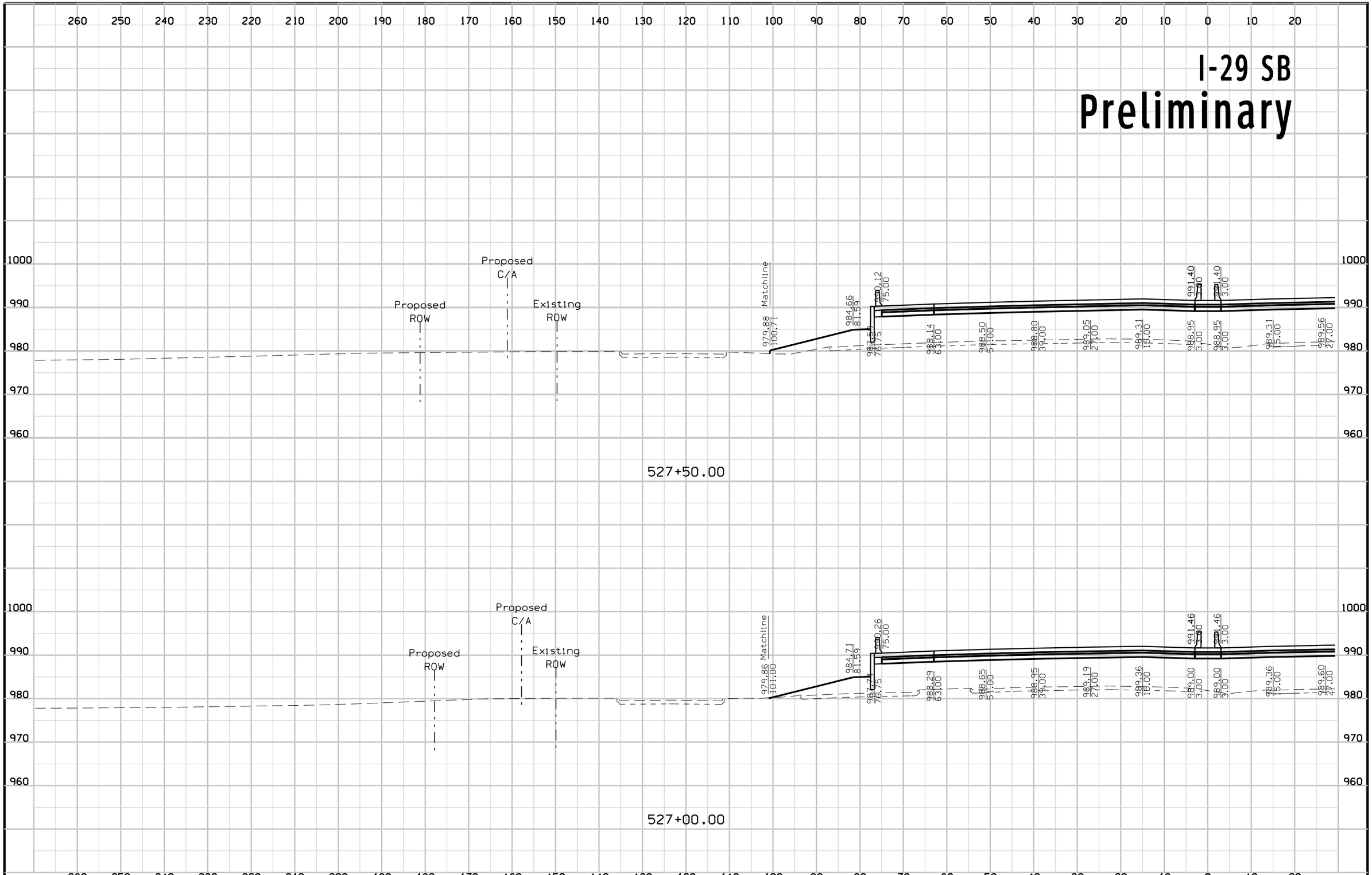
I-29 NB
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER W.45

2:46:01 PM 10/23/2017 mtoapanta pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\XSSHT_ML029.sht

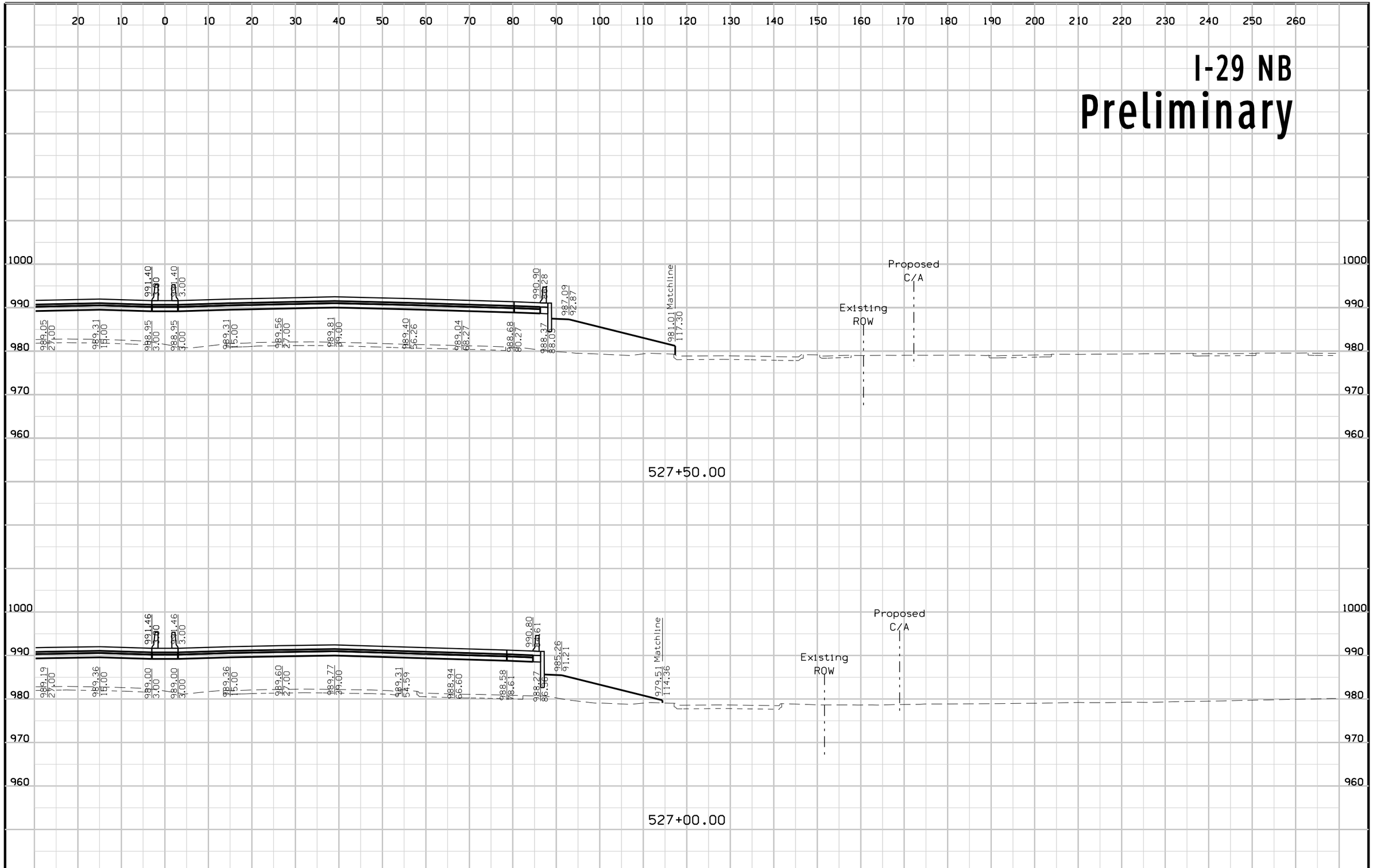
I-29 SB
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER W.46

2:46:04 PM 10/23/2017 mtoapanta pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\XSSHT_ML029.sht

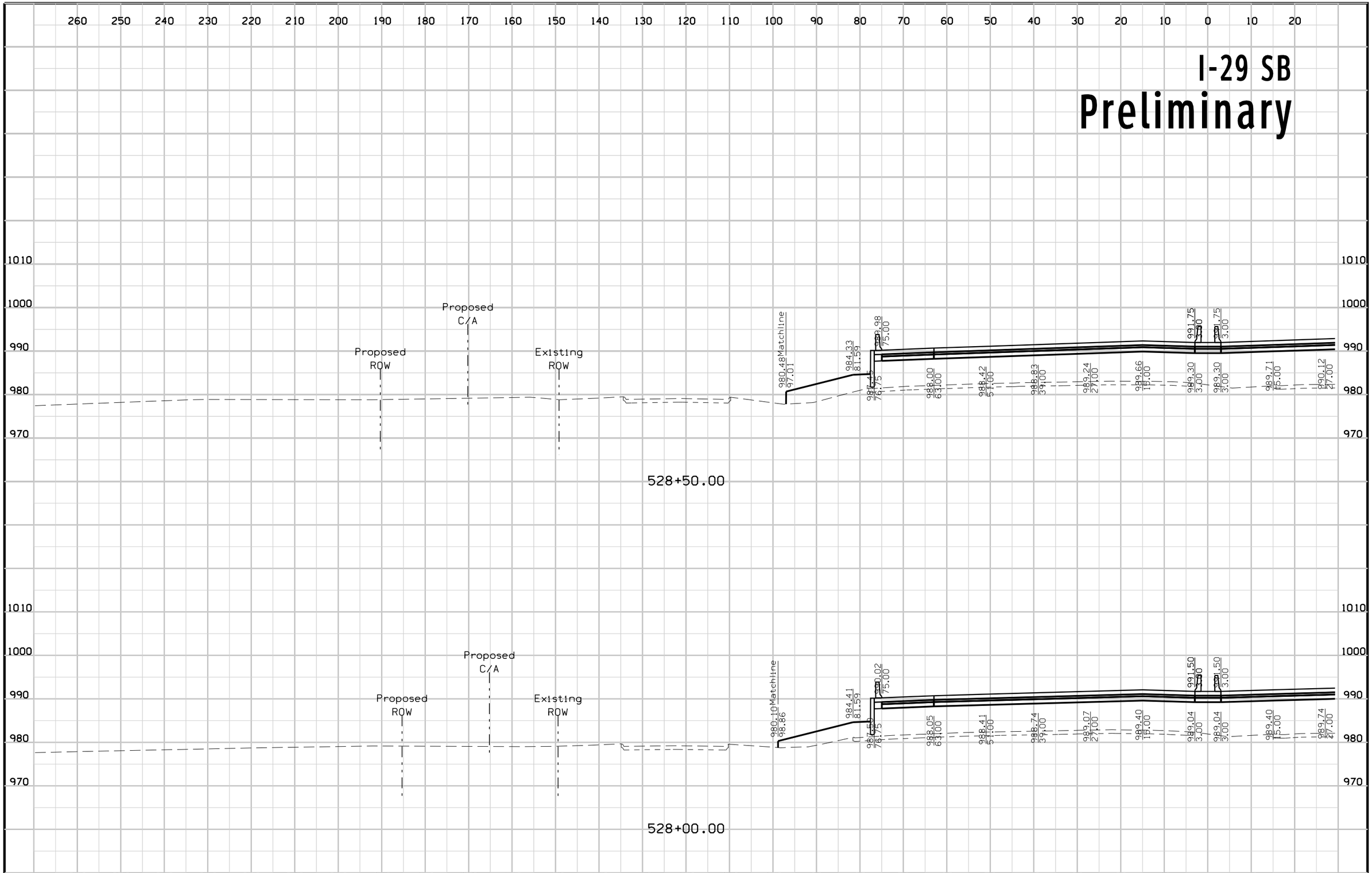
I-29 NB
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM		COUNTY	PROJECT NUMBER	SHEET NUMBER
		Mayberry \ HNTB \ HR Green	POTTAWATTAMIE		IM-029-3(166)54--13-78	W.47

2:46:07 PM 10/23/2017 mtoapanta pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\XSSHT_ML029.sht

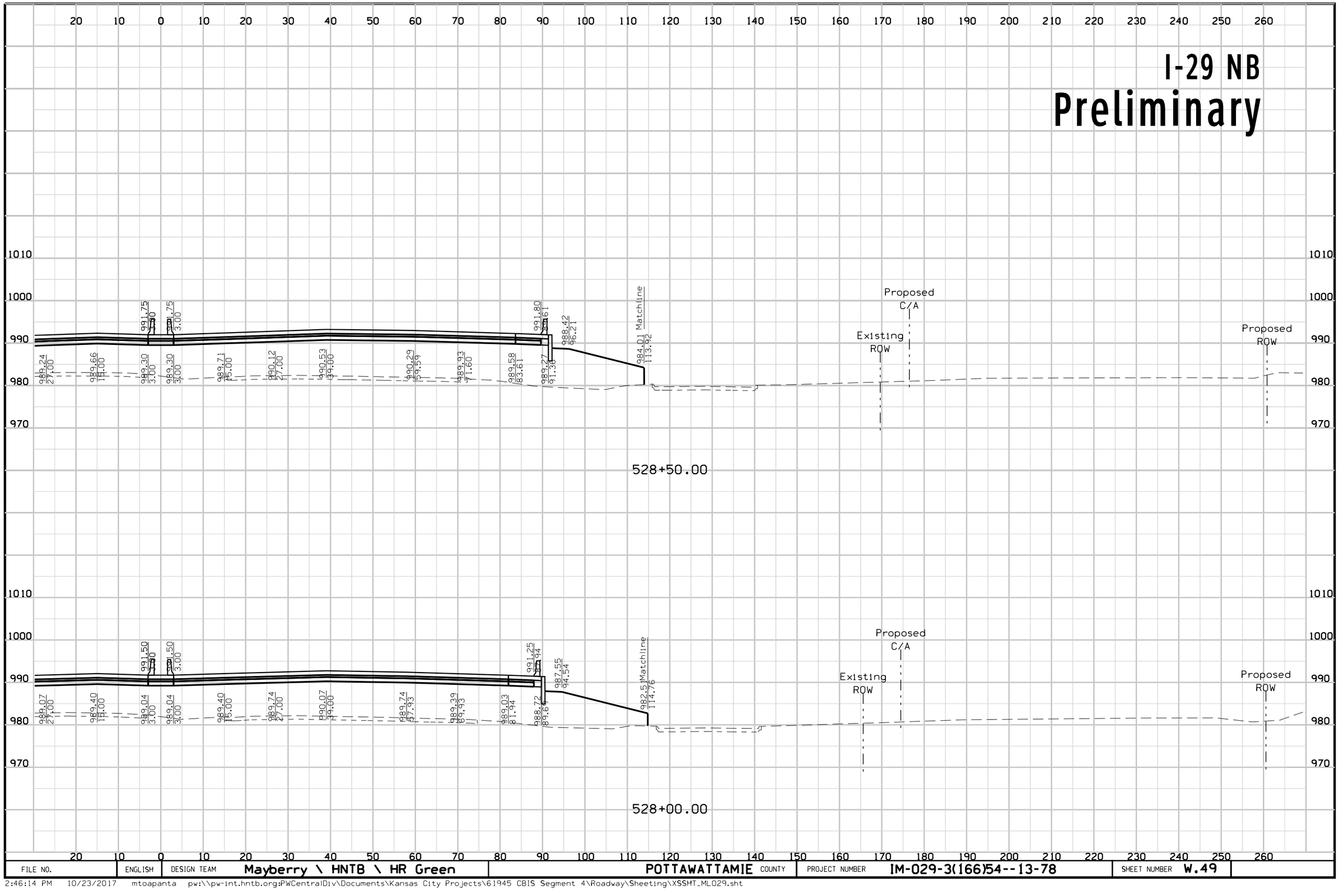
I-29 SB
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER	W.48

2:46:10 PM 10/23/2017 mtoapanta pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\XSSHT_ML029.sht

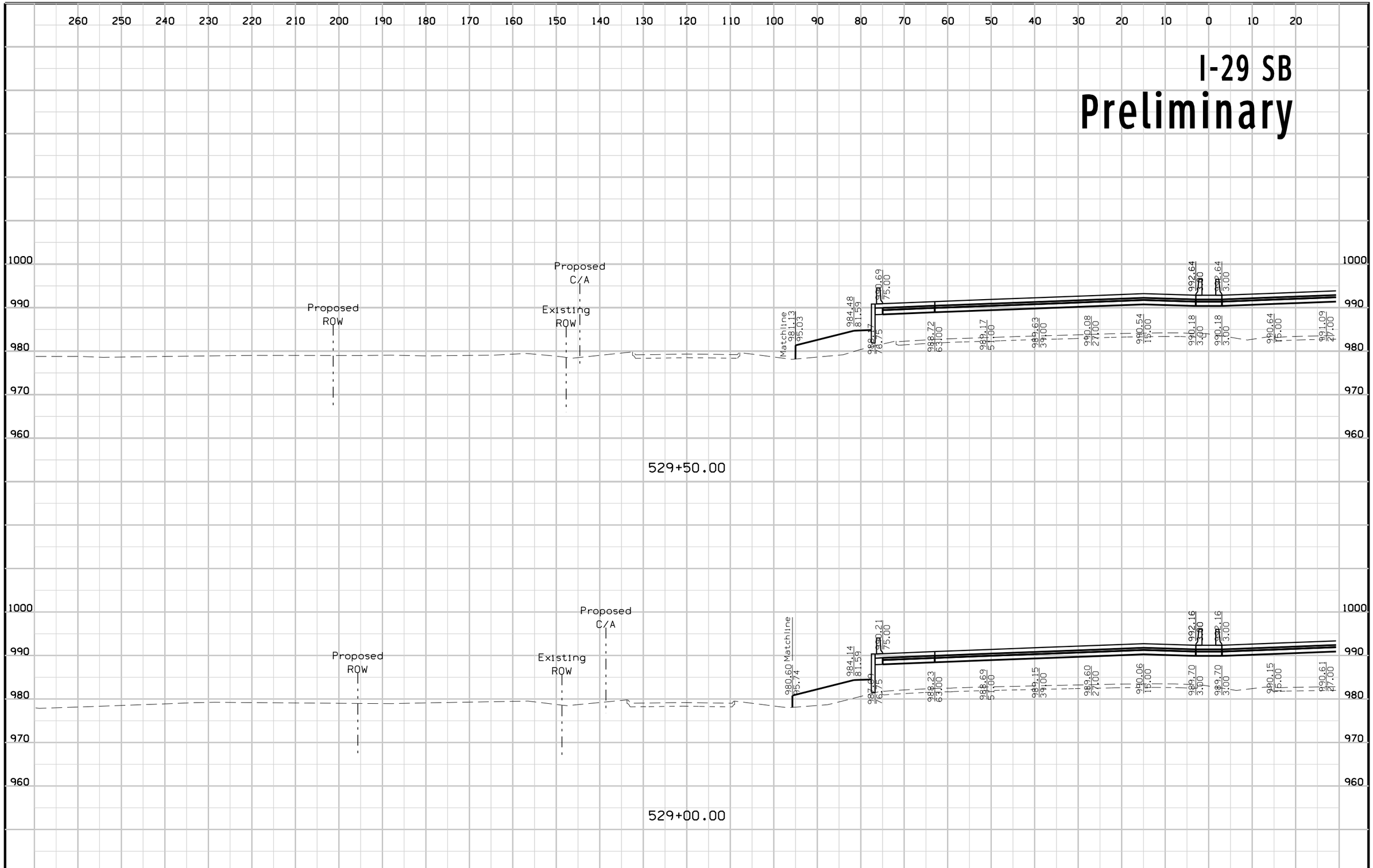
I-29 NB
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER W.49

2:46:14 PM 10/23/2017 mtoapanta pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\XSSHT_ML029.sht

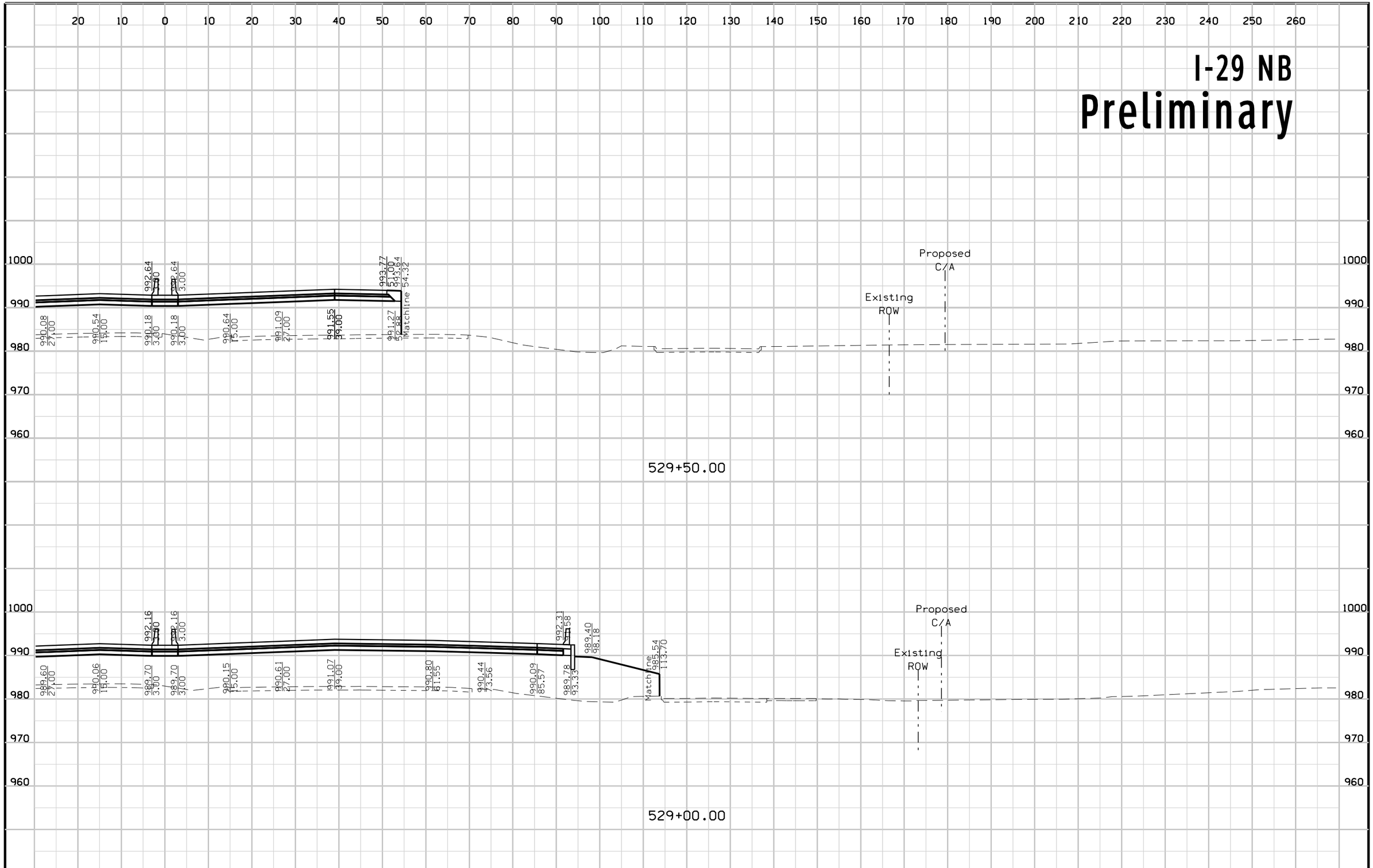
I-29 SB
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER	W.50

2:46:17 PM 10/23/2017 mtoapanta pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\XSSHT_ML029.sht

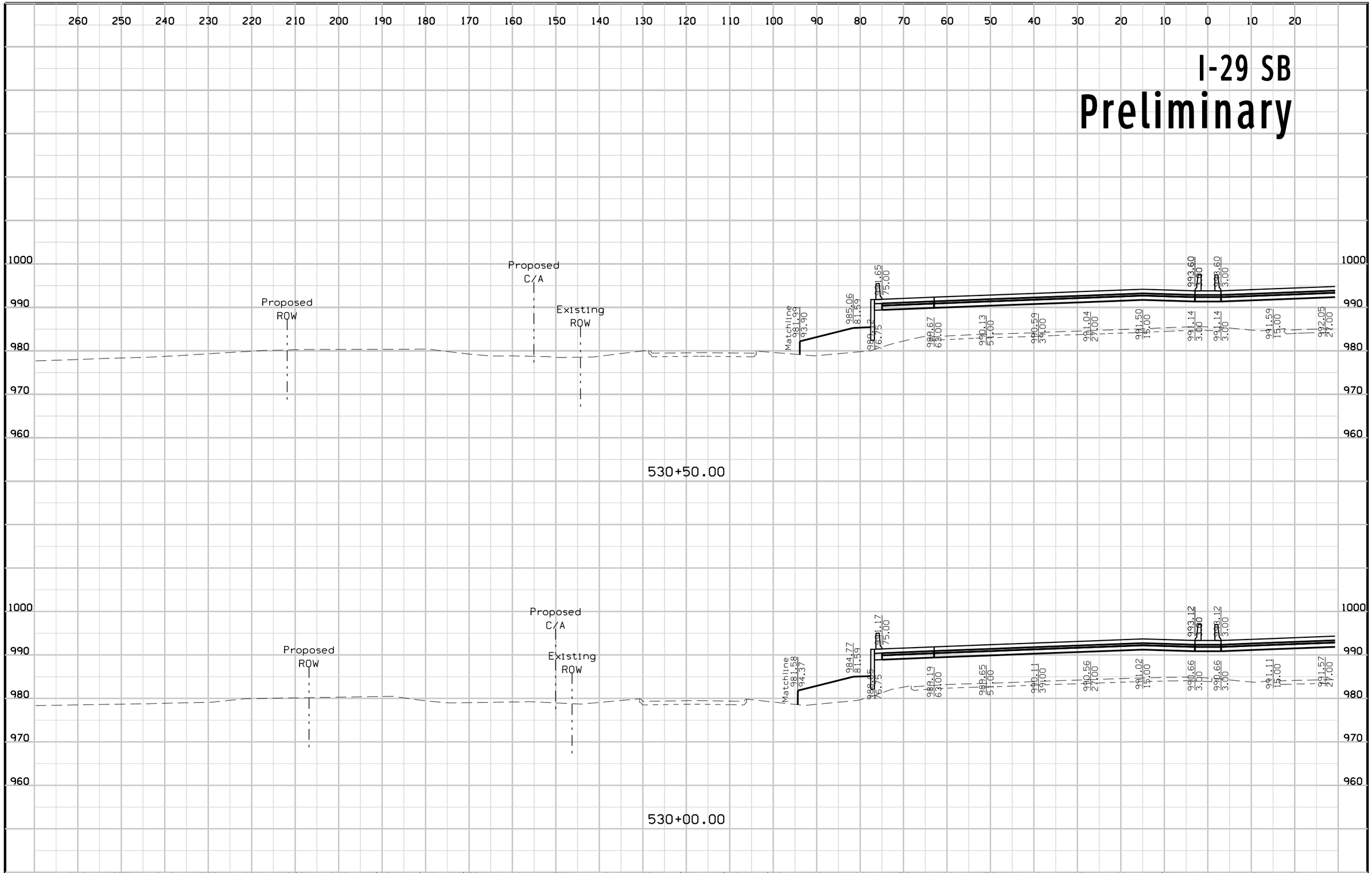
I-29 NB
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM		COUNTY	PROJECT NUMBER	SHEET NUMBER
		Mayberry \ HNTB \ HR Green	POTTAWATTAMIE		IM-029-3(166)54--13-78	W.51

2:46:20 PM 10/23/2017 mtoapanta pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\XSSHT_ML029.sht

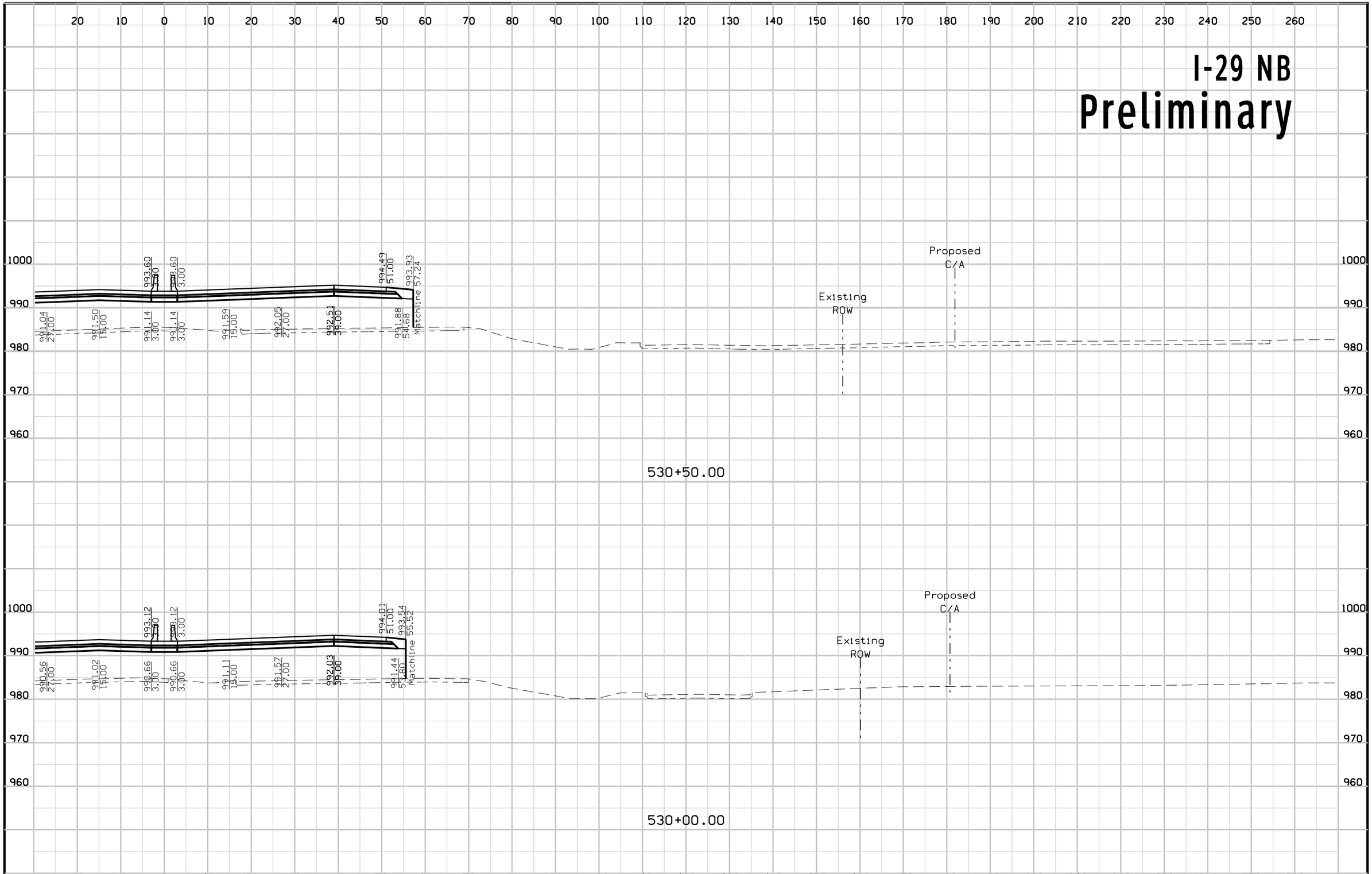
I-29 SB
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER W.52

2:46:23 PM 10/23/2017 mtoapanta pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\XSSHT_ML029.sht

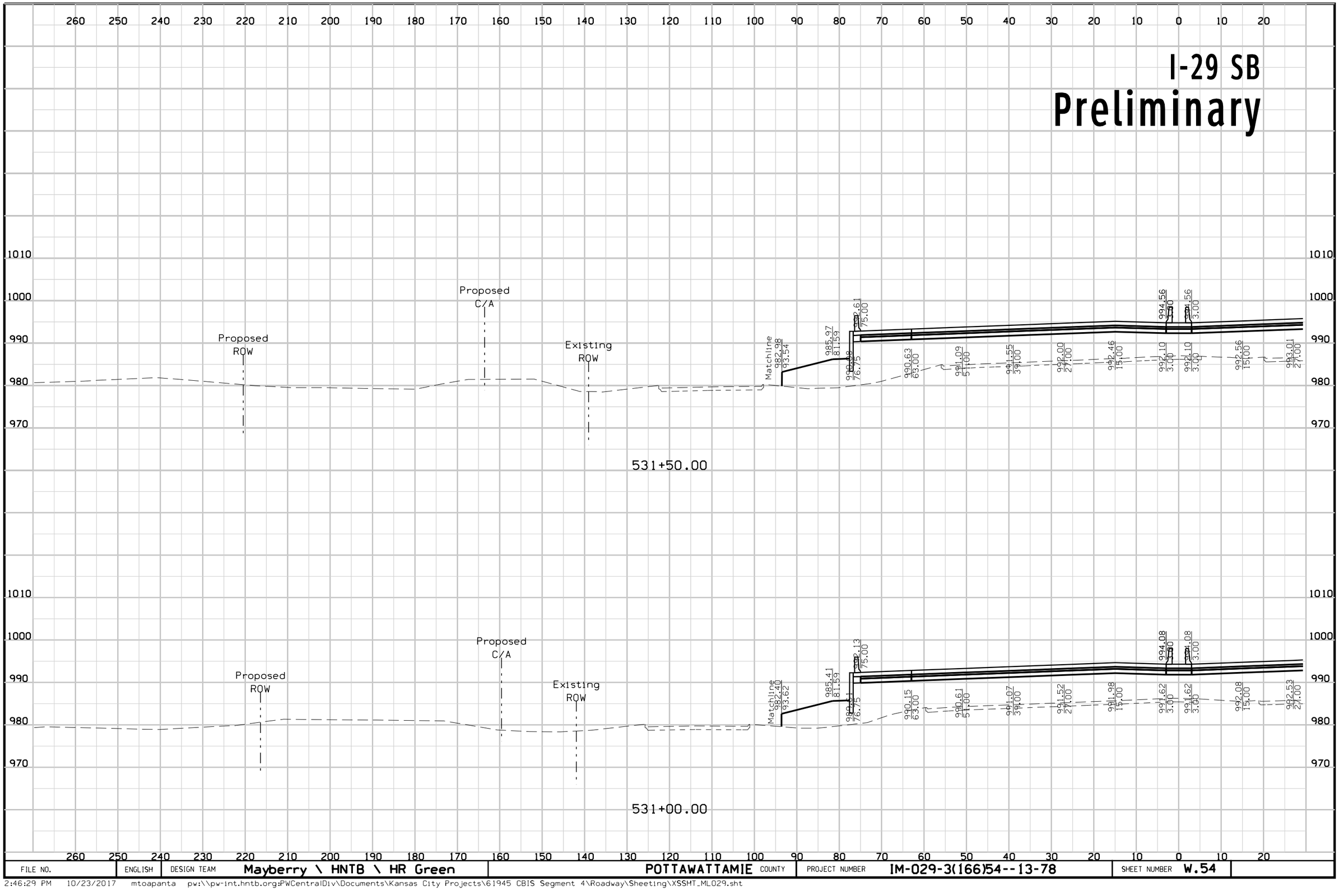
I-29 NB
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER W.53

2:46:26 PM 10/23/2017 mtoapanta pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\XSSHT_ML029.sht

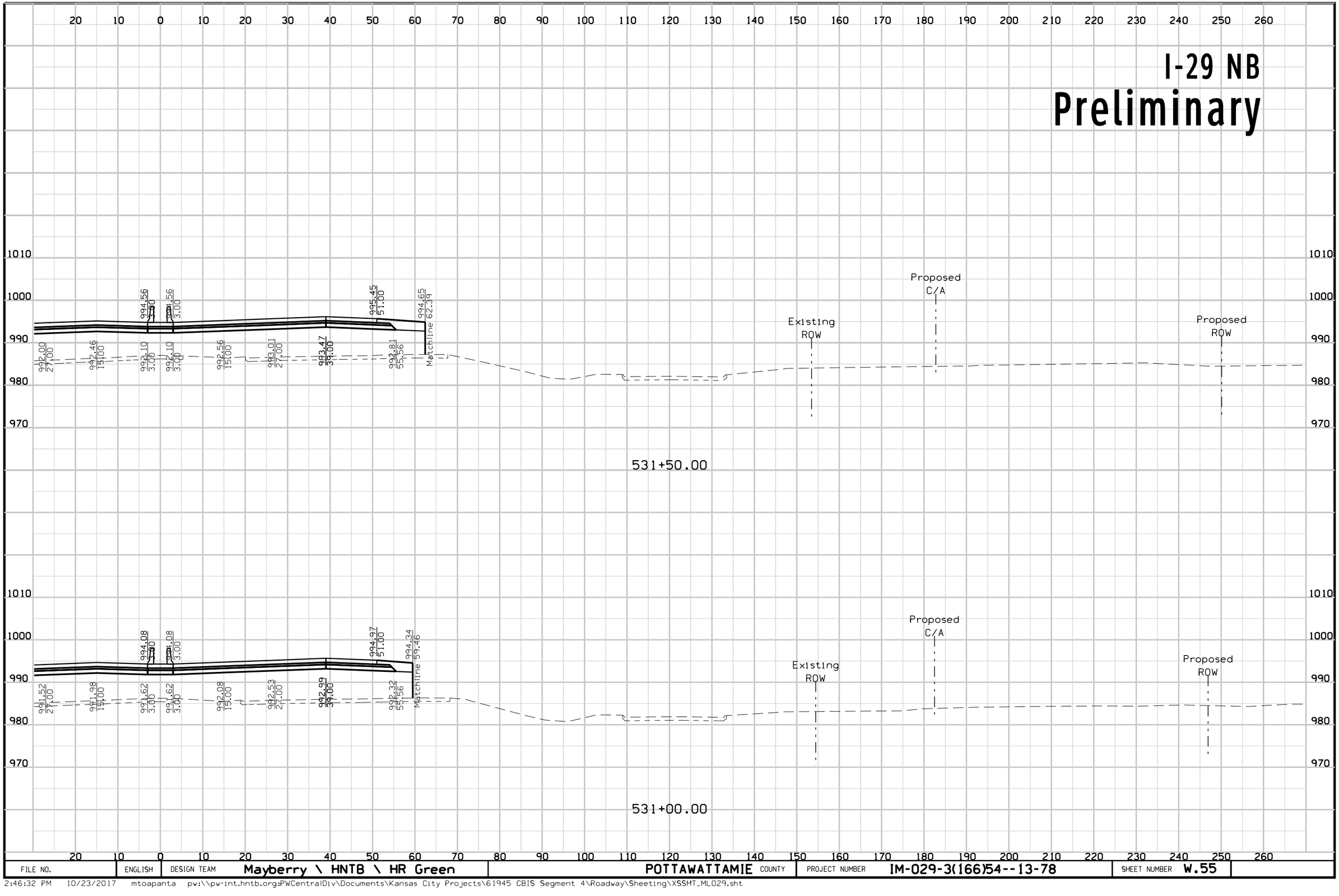
I-29 SB
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER	W.54

2:46:29 PM 10/23/2017 mtoapanta pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\XSSHT_ML029.sht

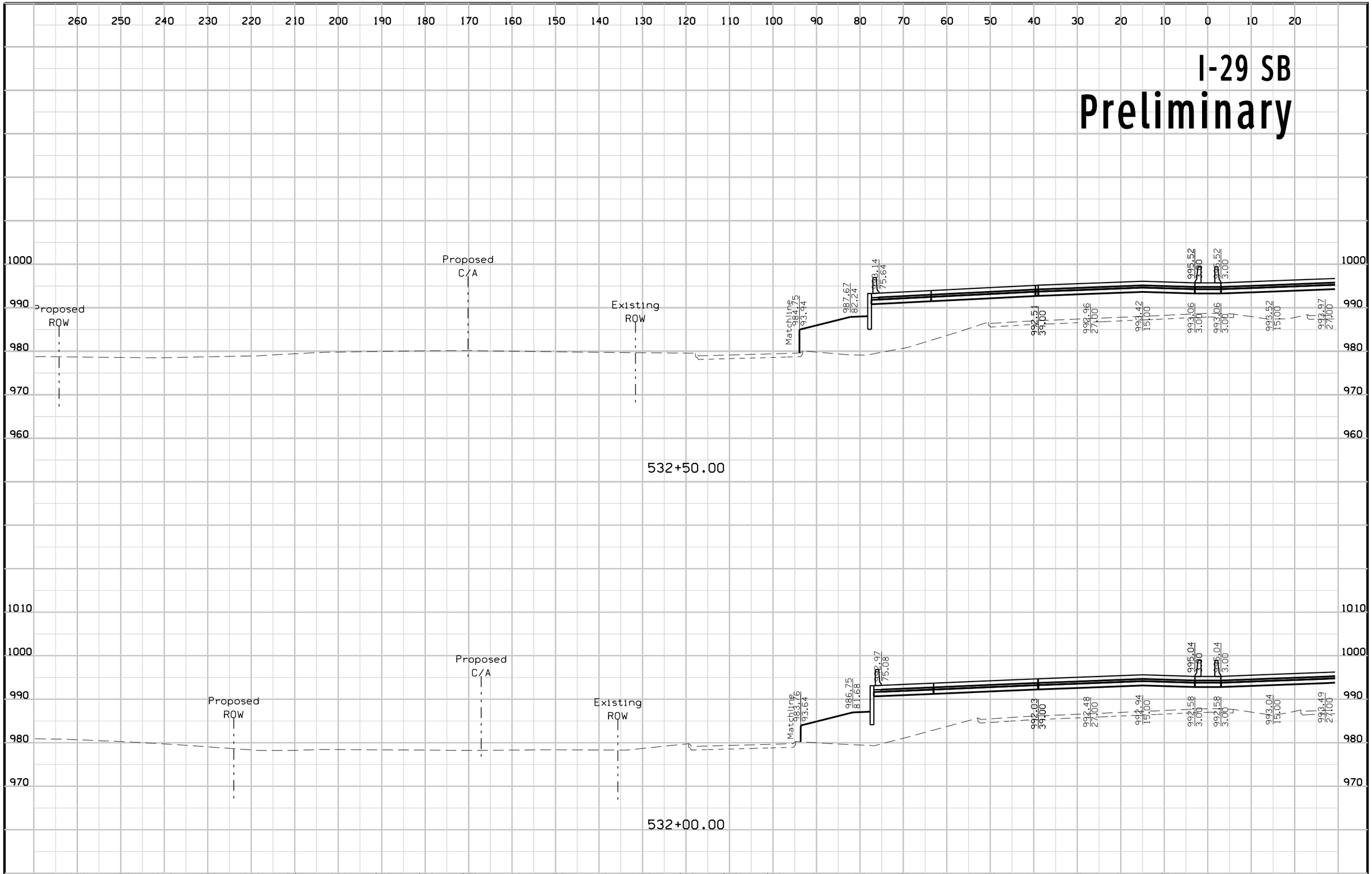
I-29 NB
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER	W.55

2:46:32 PM 10/23/2017 mtoapanta pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\XSSHT_ML029.sht

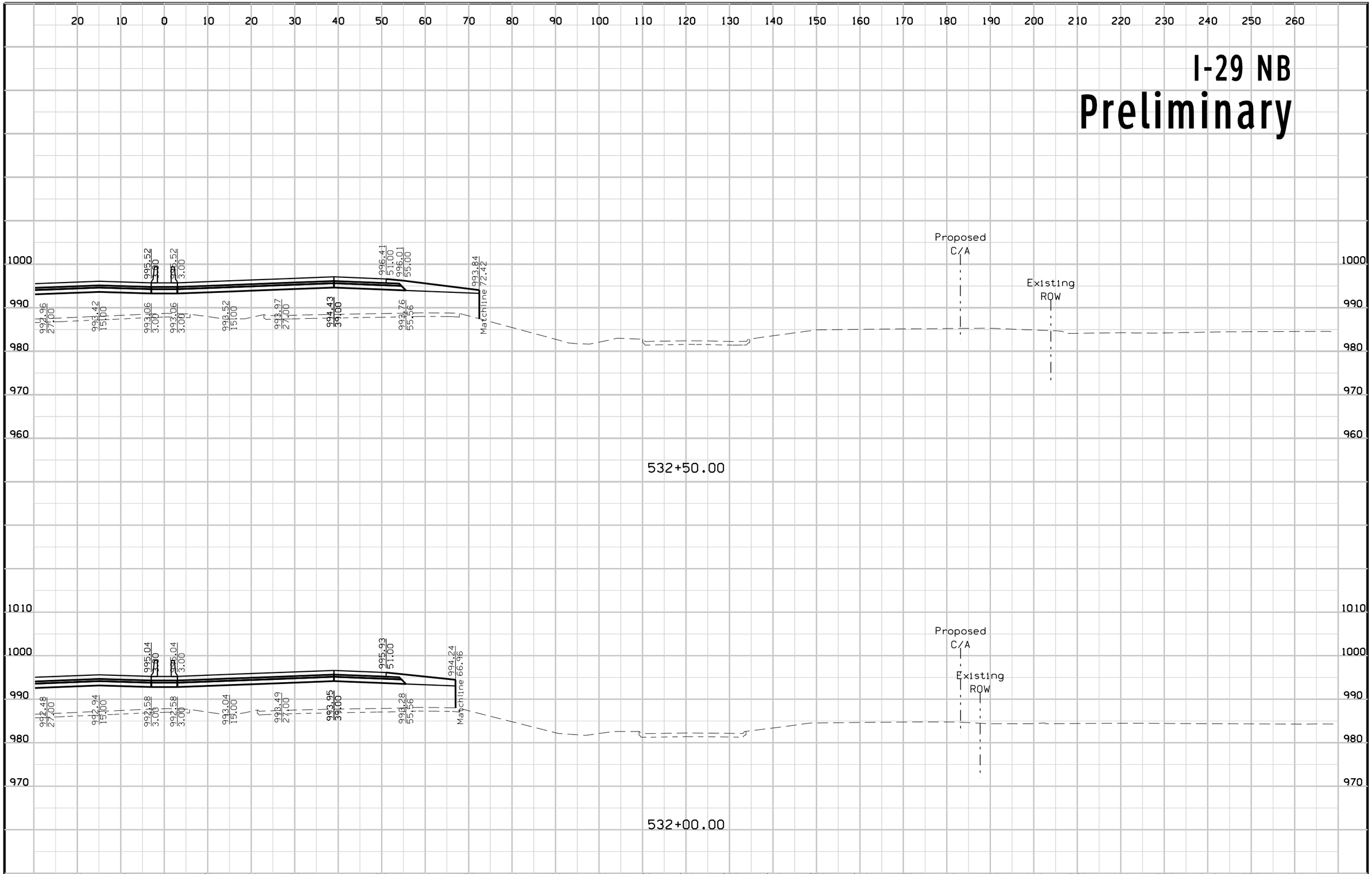
I-29 SB
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER	W.56

2:46:35 PM 10/23/2017 mtoapanta pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\XSSHT_ML029.sht

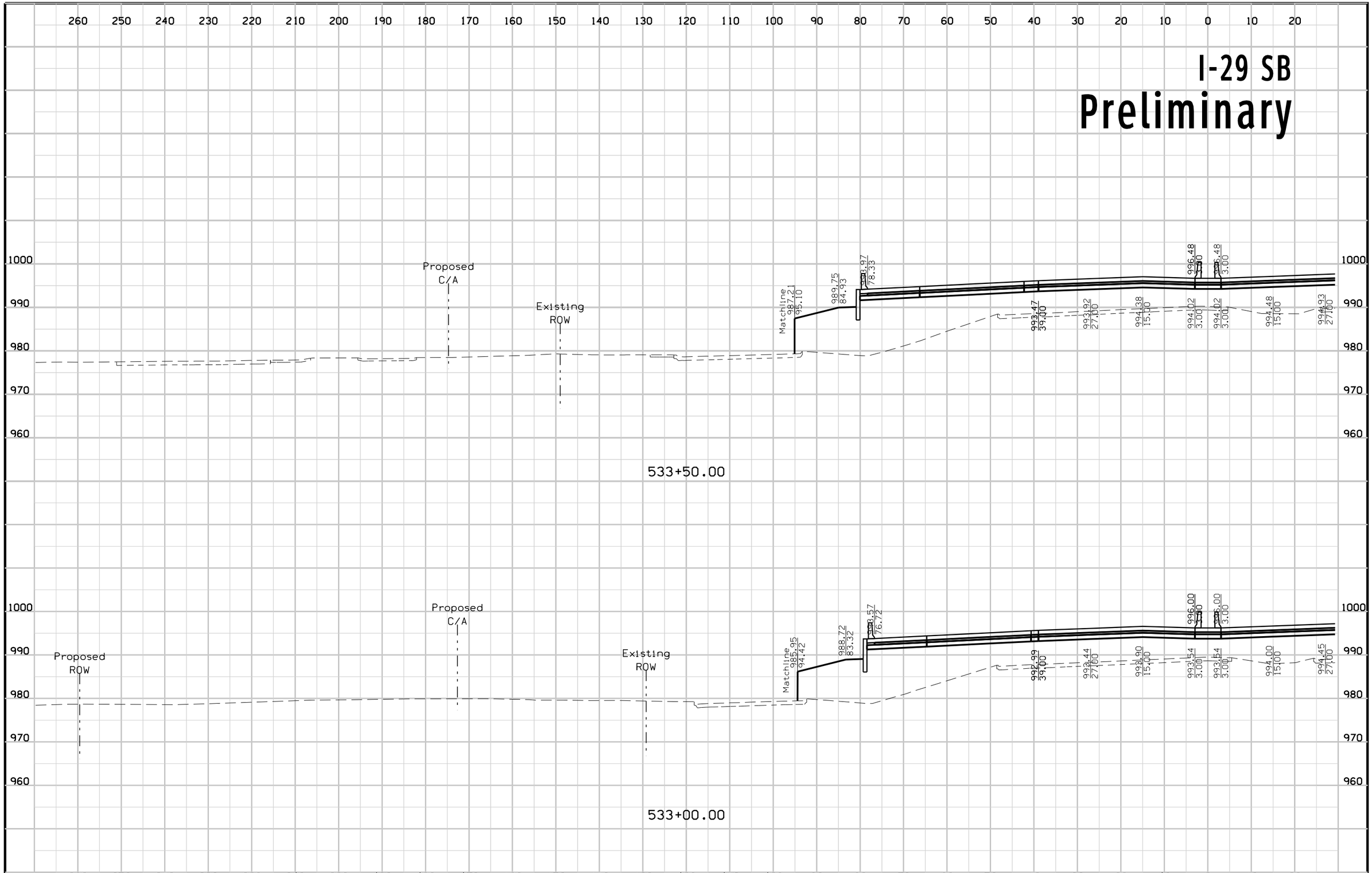
I-29 NB
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER	W.57

2:46:38 PM 10/23/2017 mtoapanta pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\XSSHT_ML029.sht

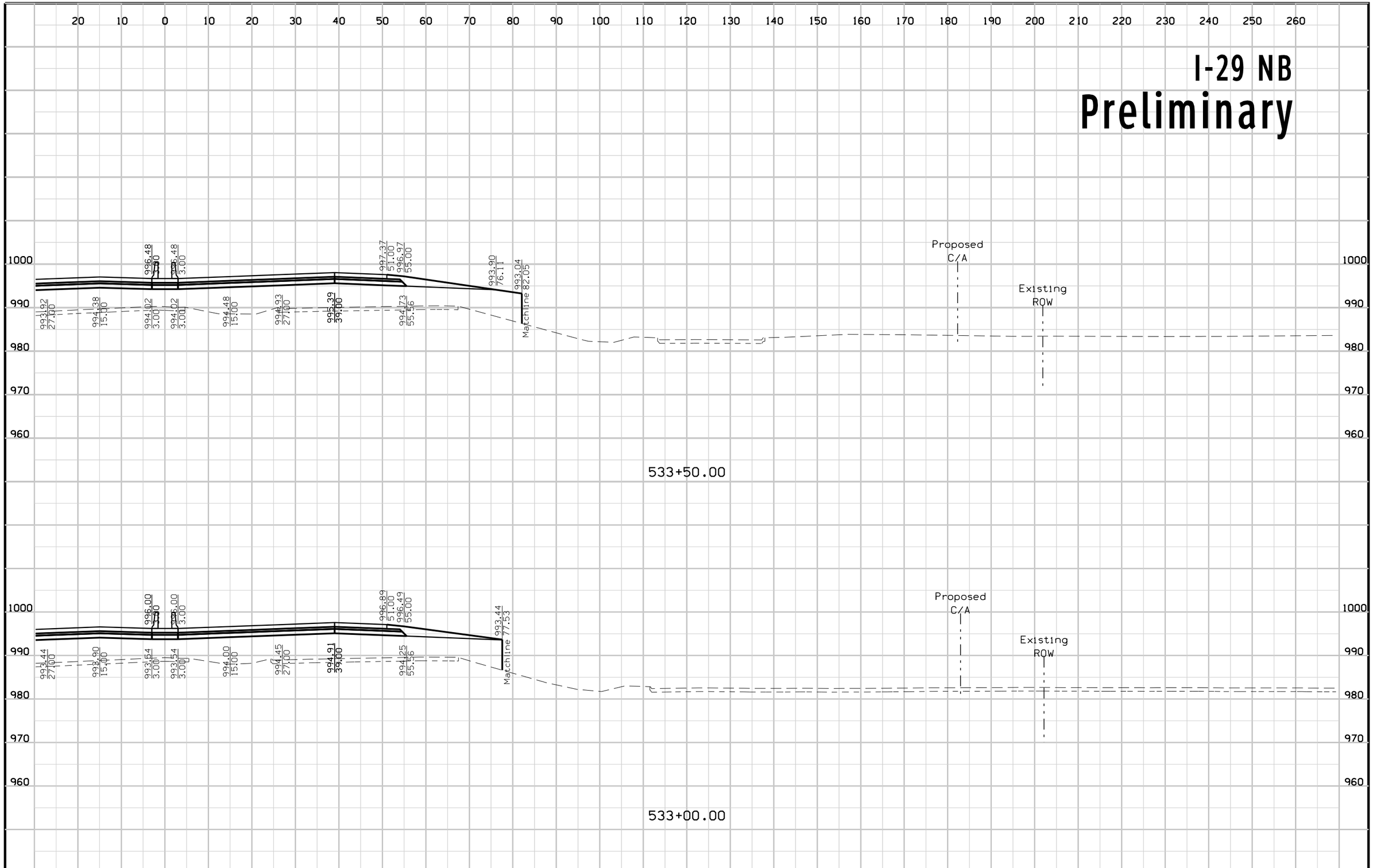
I-29 SB
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER	W.58

2:46:41 PM 10/23/2017 mtoapanta pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\XSSHT_ML029.sht

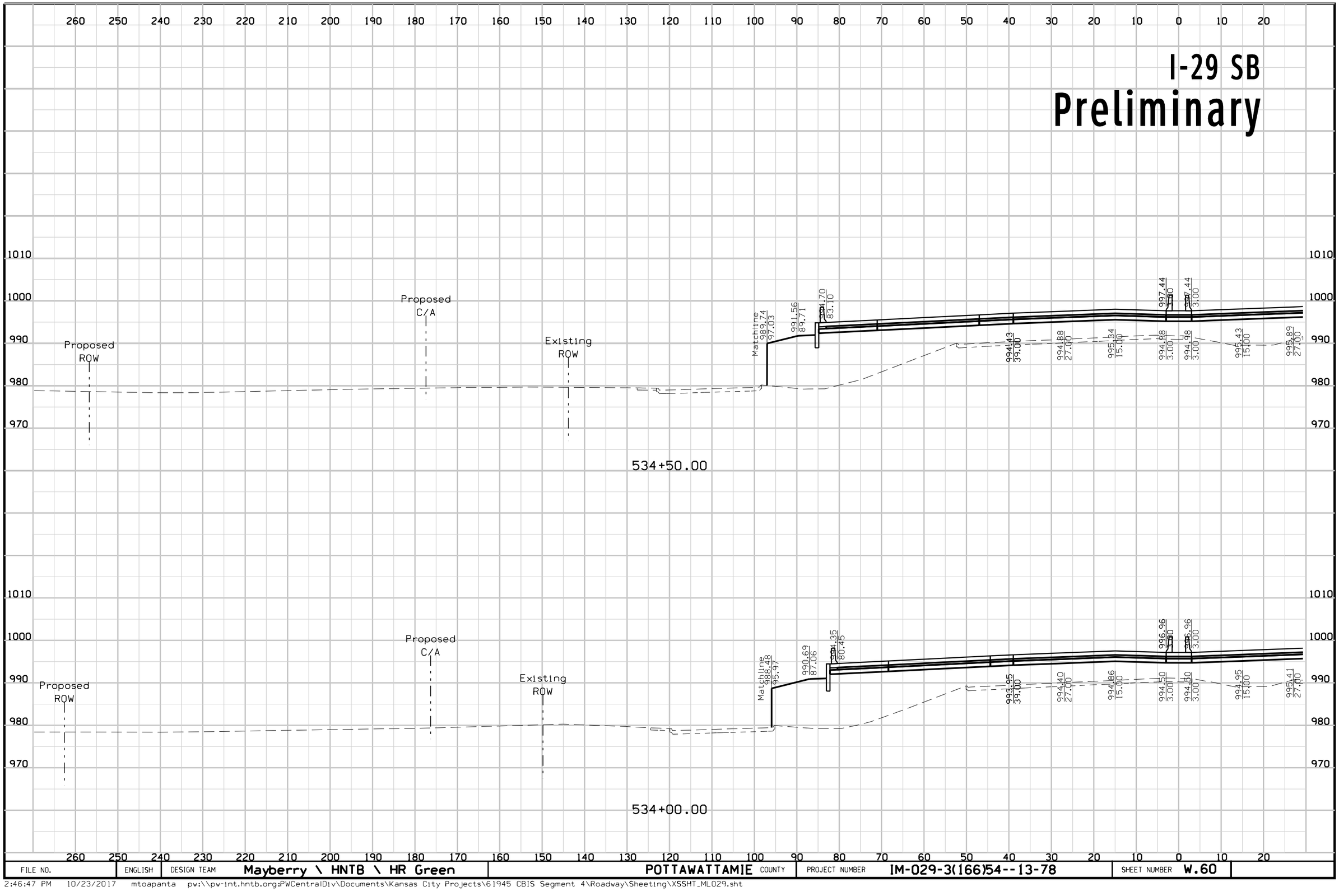
I-29 NB
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM		COUNTY	PROJECT NUMBER	SHEET NUMBER
		Mayberry \ HNTB \ HR Green	POTTAWATTAMIE		IM-029-3(166)54--13-78	W.59

2:46:44 PM 10/23/2017 mtoapanta pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\XSSHT_ML029.sht

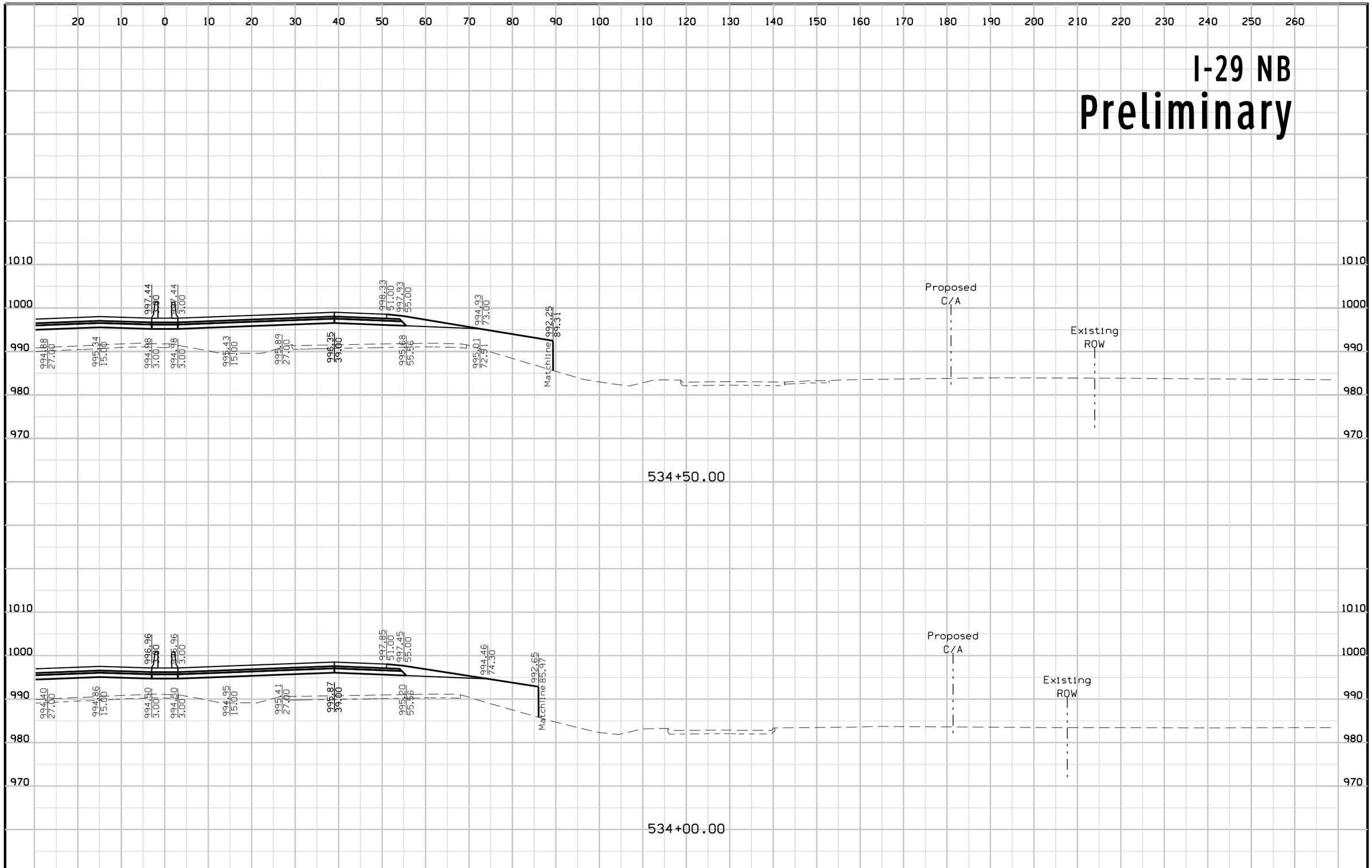
I-29 SB
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER	W.60

2:46:47 PM 10/23/2017 mtoapanta pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\XSSHT_ML029.sht

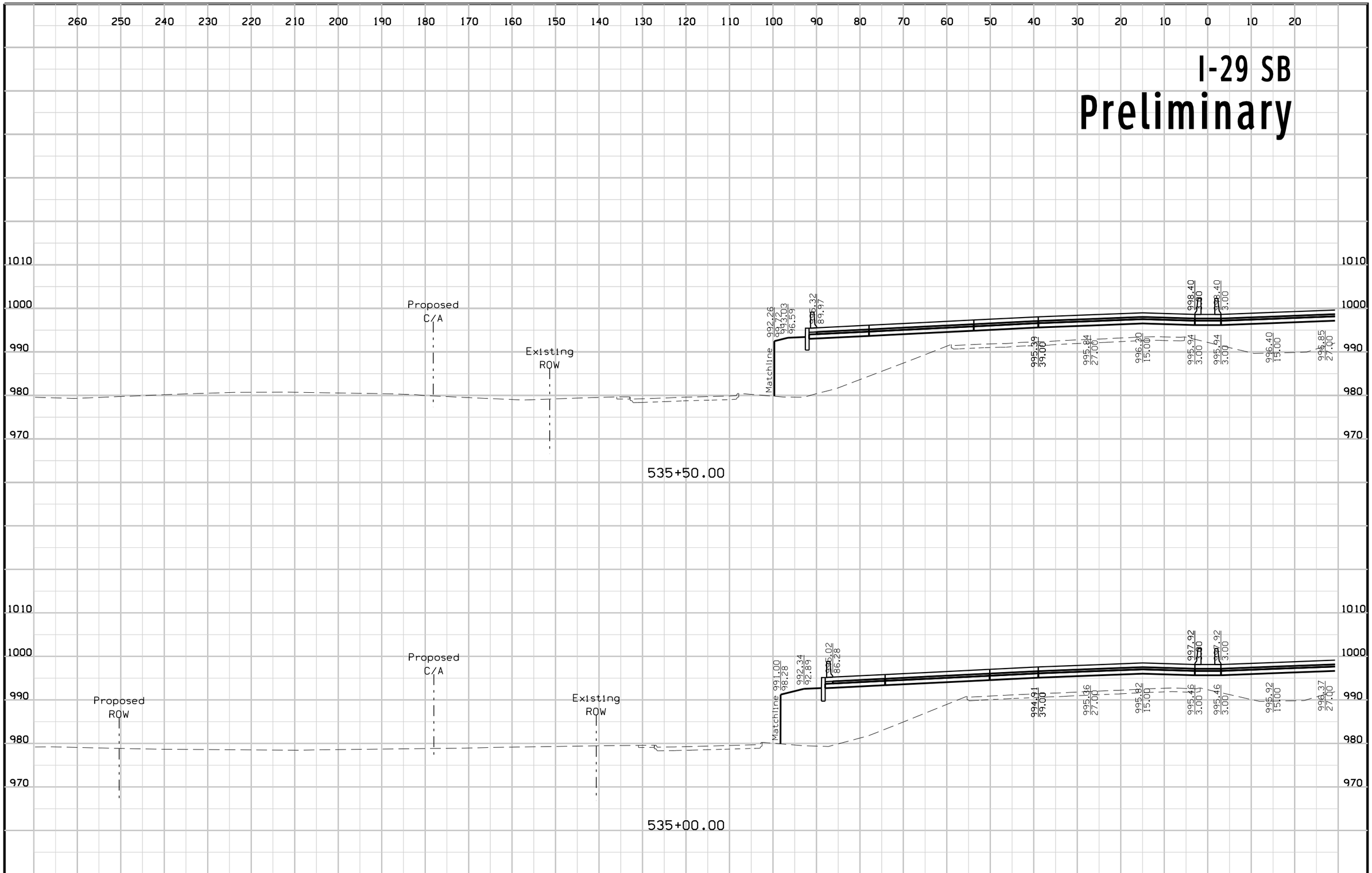
I-29 NB
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM			PROJECT NUMBER	SHEET NUMBER
		Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY		IM-029-3(166)54--13-78	W.61

2:46:50 PM 10/23/2017 mtoapanta pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\XSSHT_ML029.sht

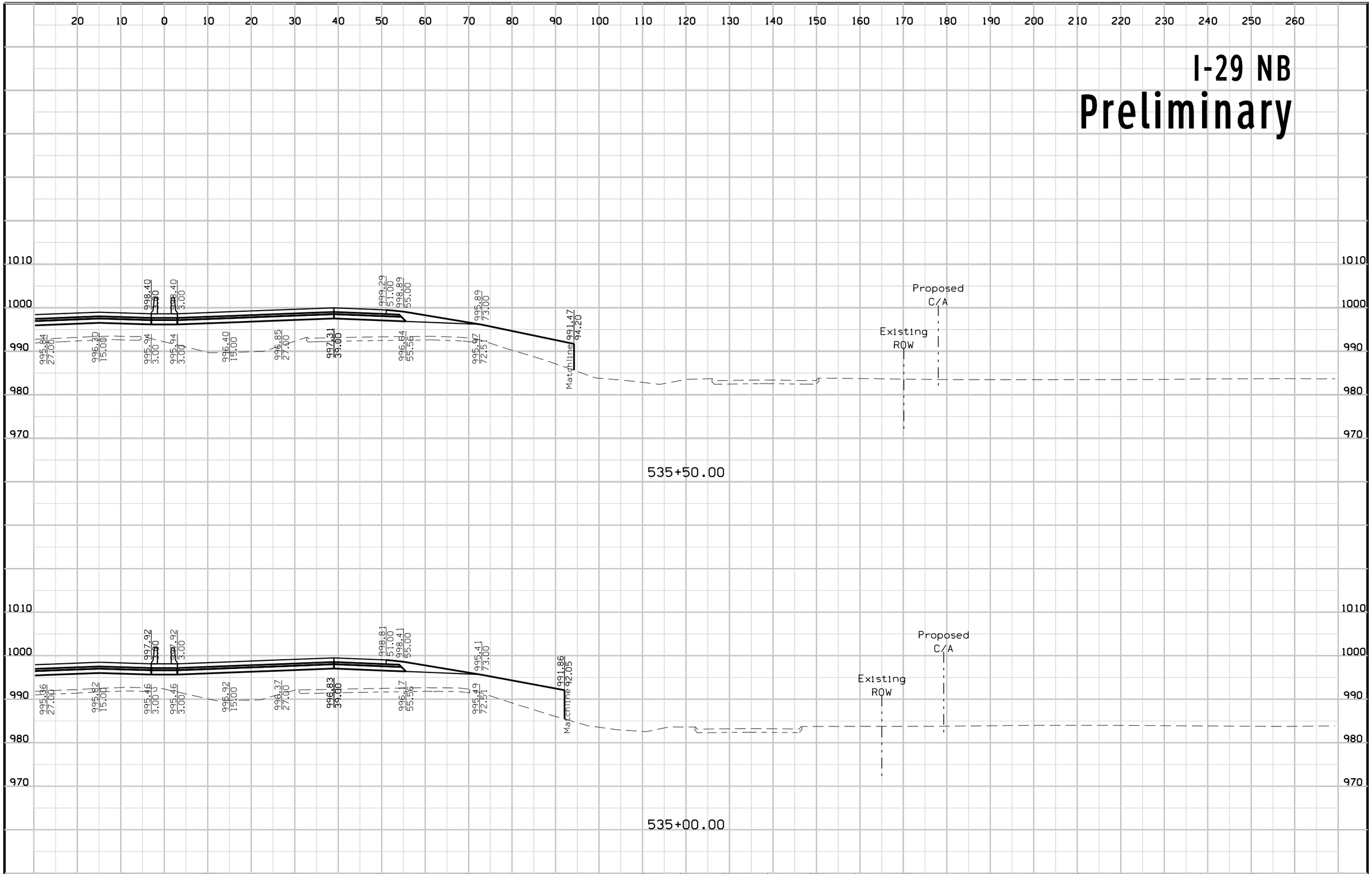
I-29 SB
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER W.62

2:46:53 PM 10/23/2017 mtoapanta pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\XSSHT_ML029.sht

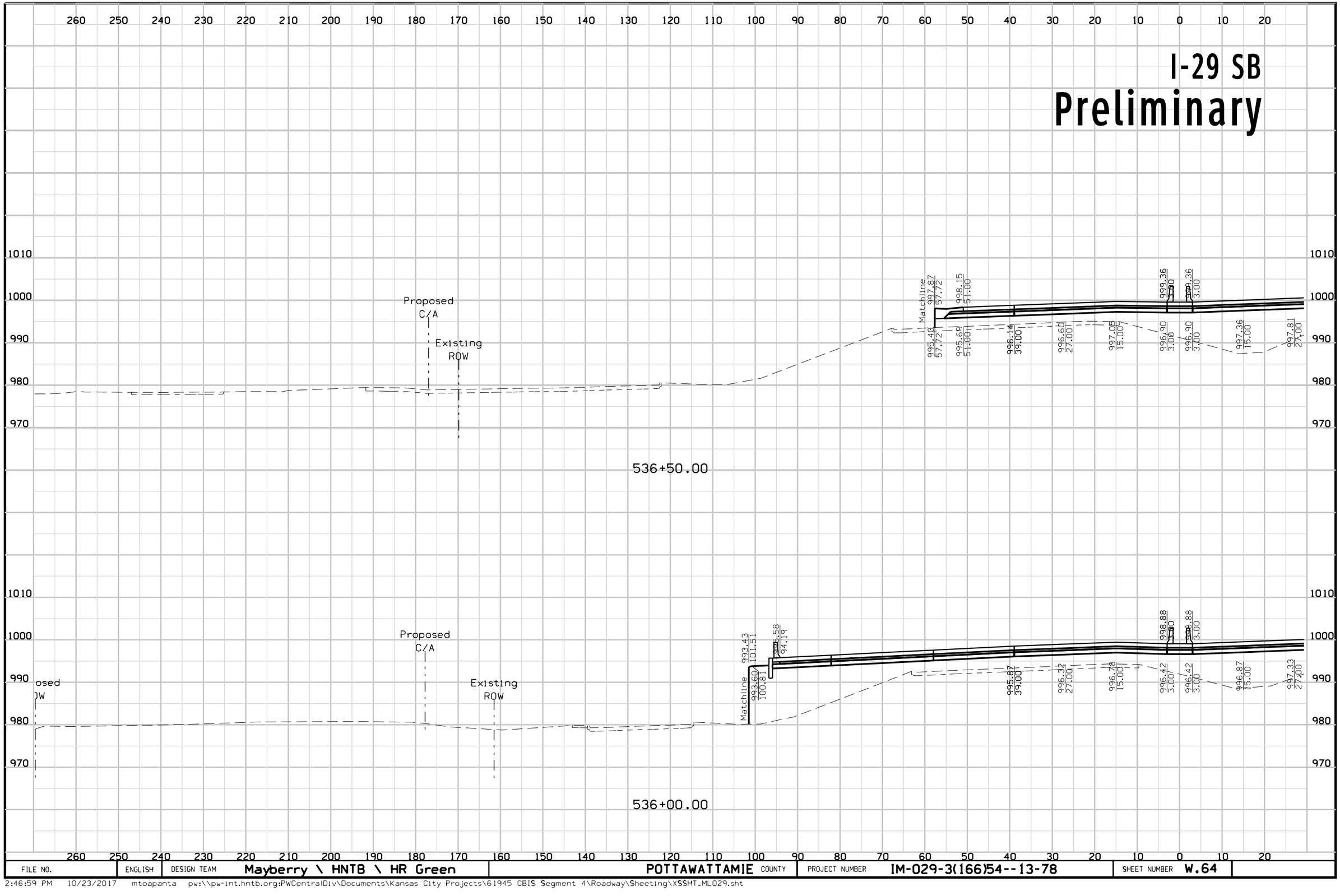
I-29 NB
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM				
		Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER IM-029-3(166)54--13-78	SHEET NUMBER W.63	

2:46:56 PM 10/23/2017 mtoapanta pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\XSSHT_ML029.sht

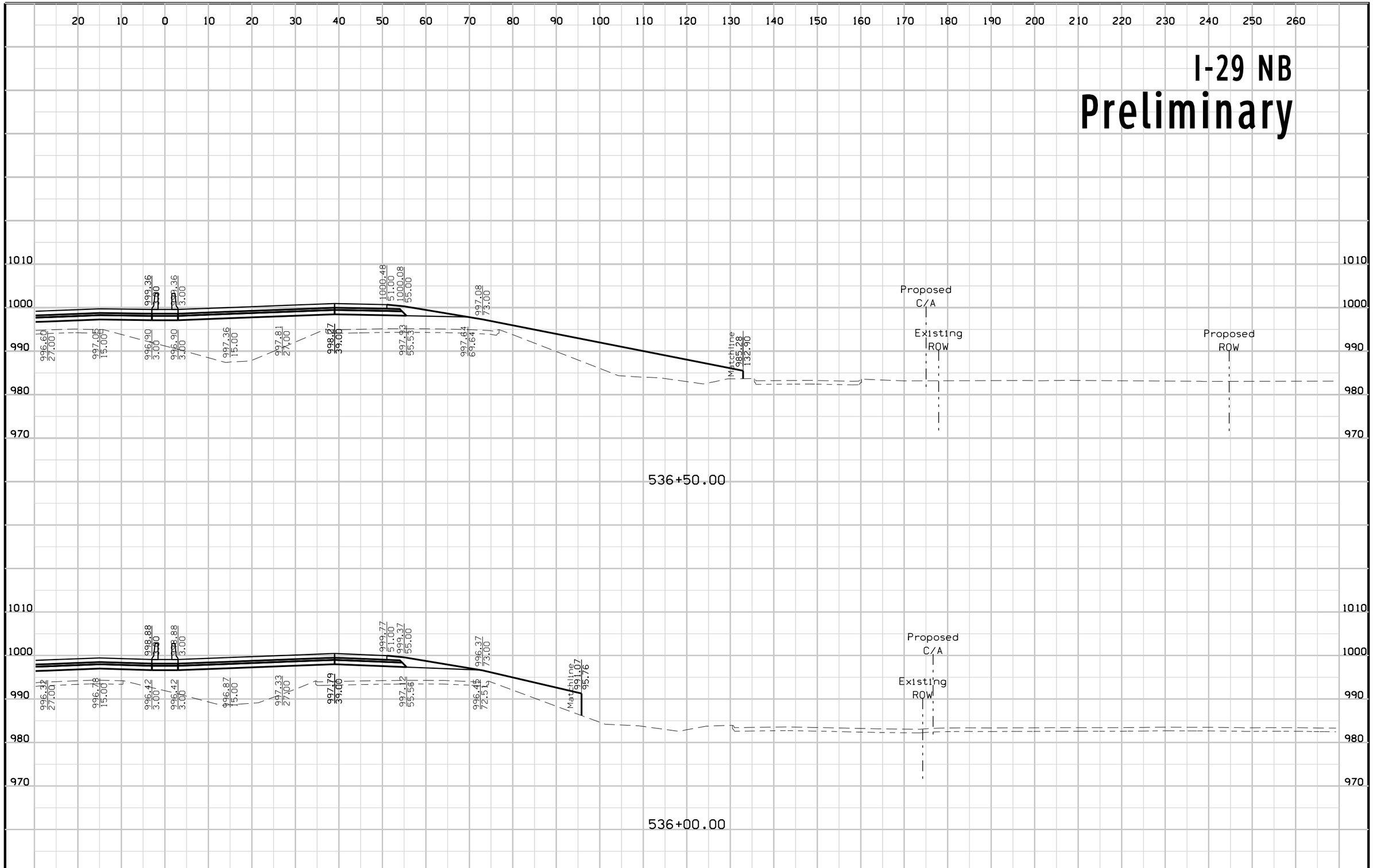
I-29 SB
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER	W.64

2:46:59 PM 10/23/2017 mtoapanta pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\XSSHT_ML029.sht

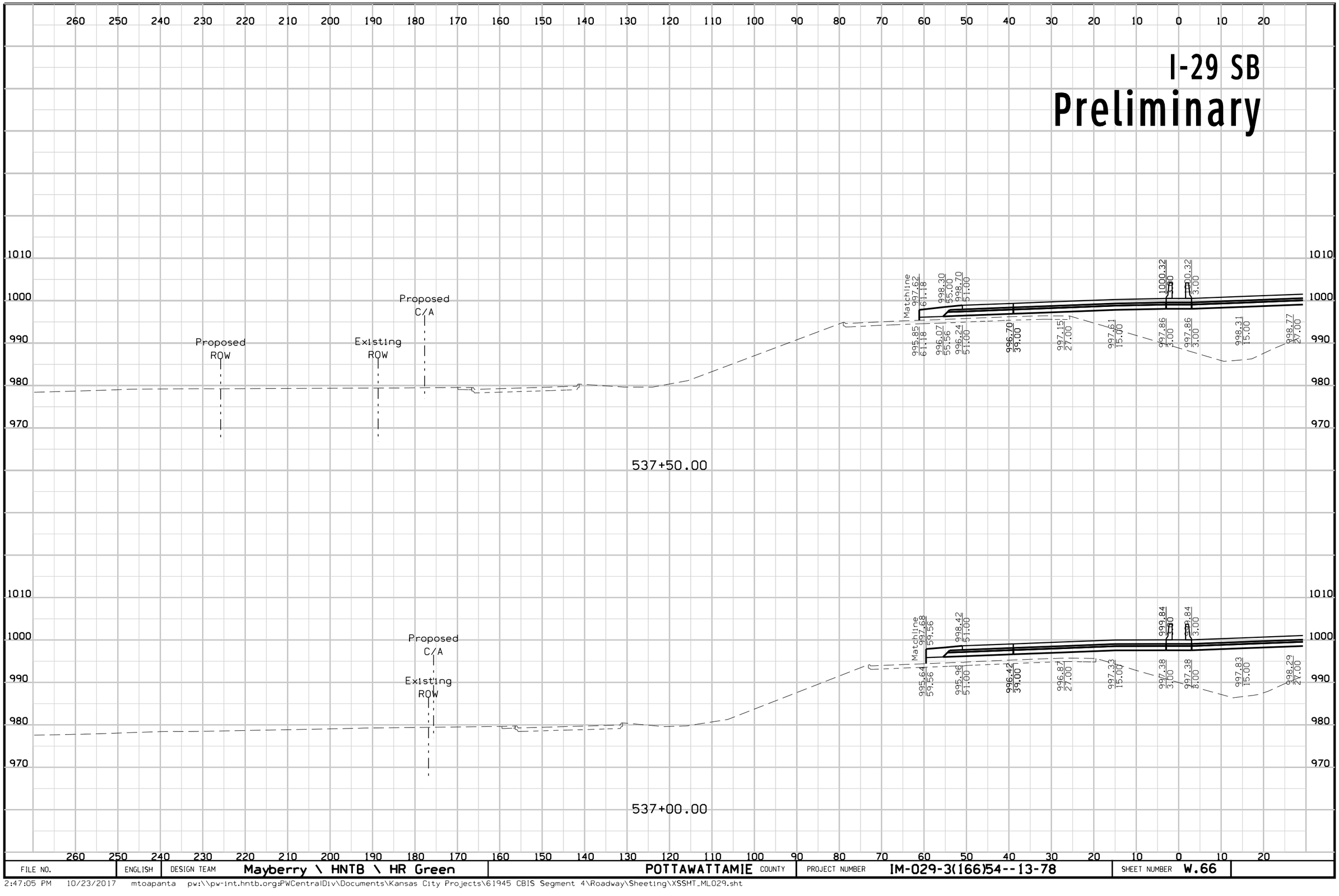
I-29 NB
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM	COUNTY	PROJECT NUMBER	SHEET NUMBER
		Mayberry \ HNTB \ HR Green	POTTAWATTAMIE	IM-029-3(166)54--13-78	W.65

2:47:02 PM 10/23/2017 mtoapanta pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\XSSHT_ML029.sht

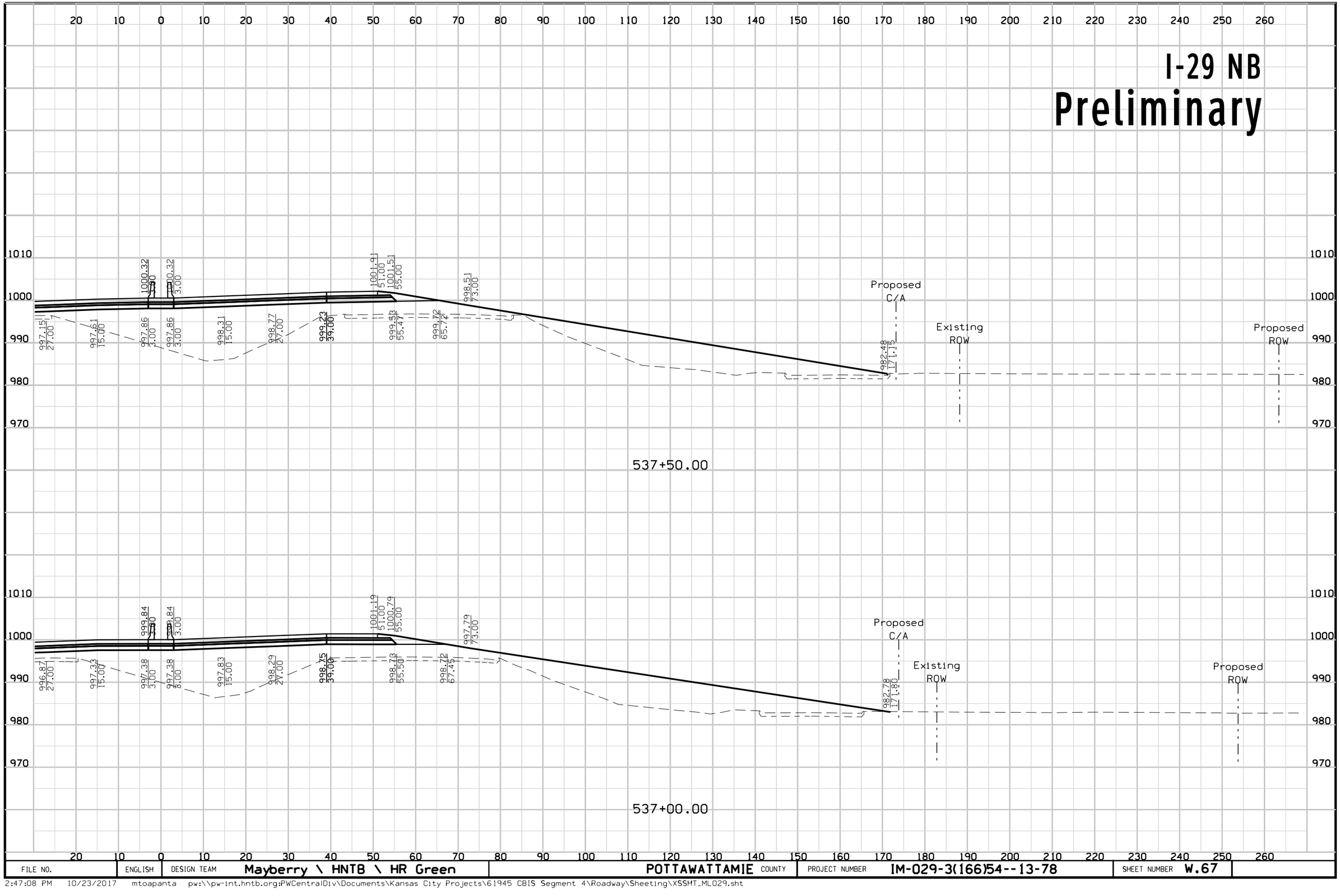
I-29 SB
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER	W.66

2:47:05 PM 10/23/2017 mtoapanta pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\XSSHT_ML029.sht

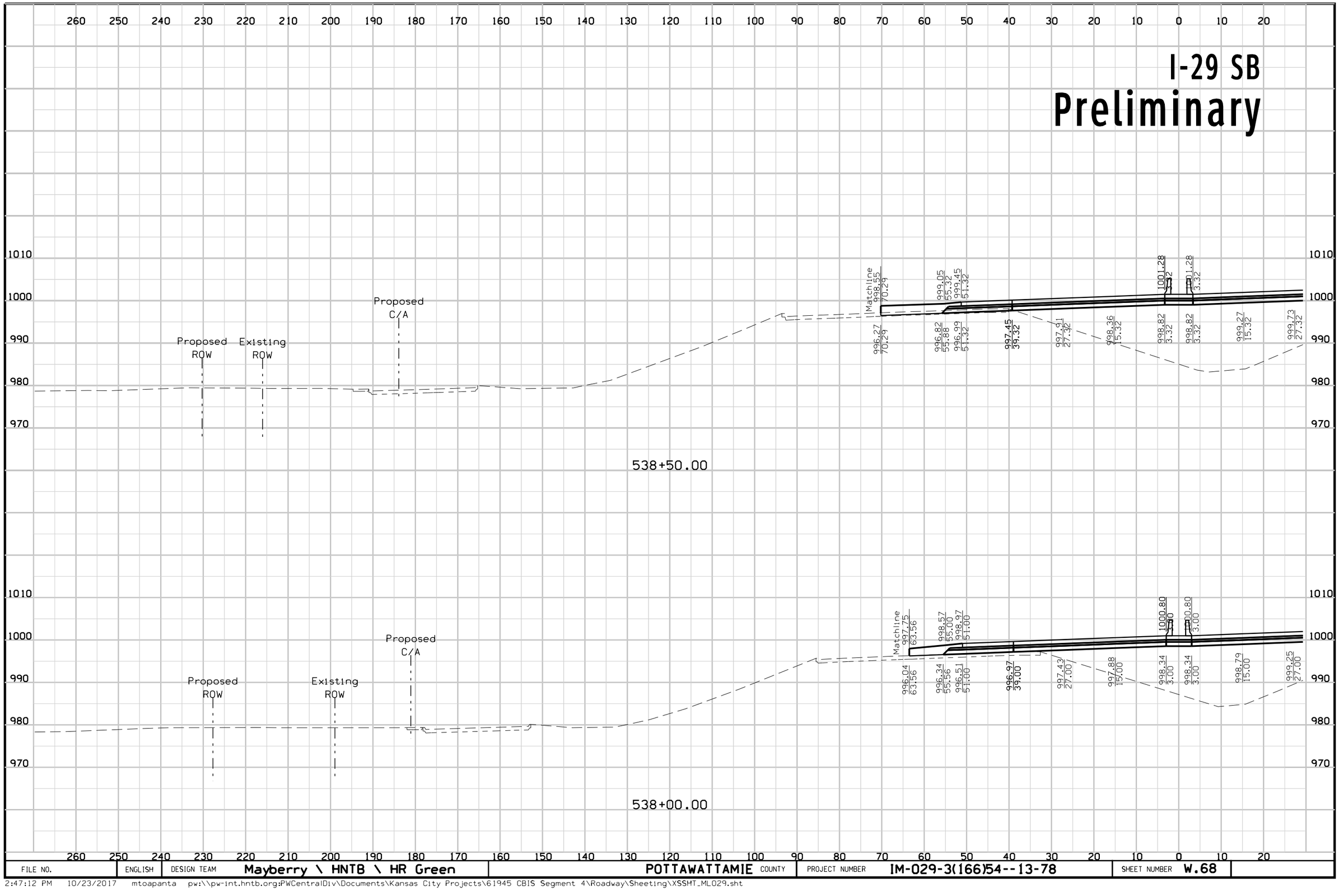
I-29 NB
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM				
		Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER IM-029-3(166)54--13-78	SHEET NUMBER W.67	

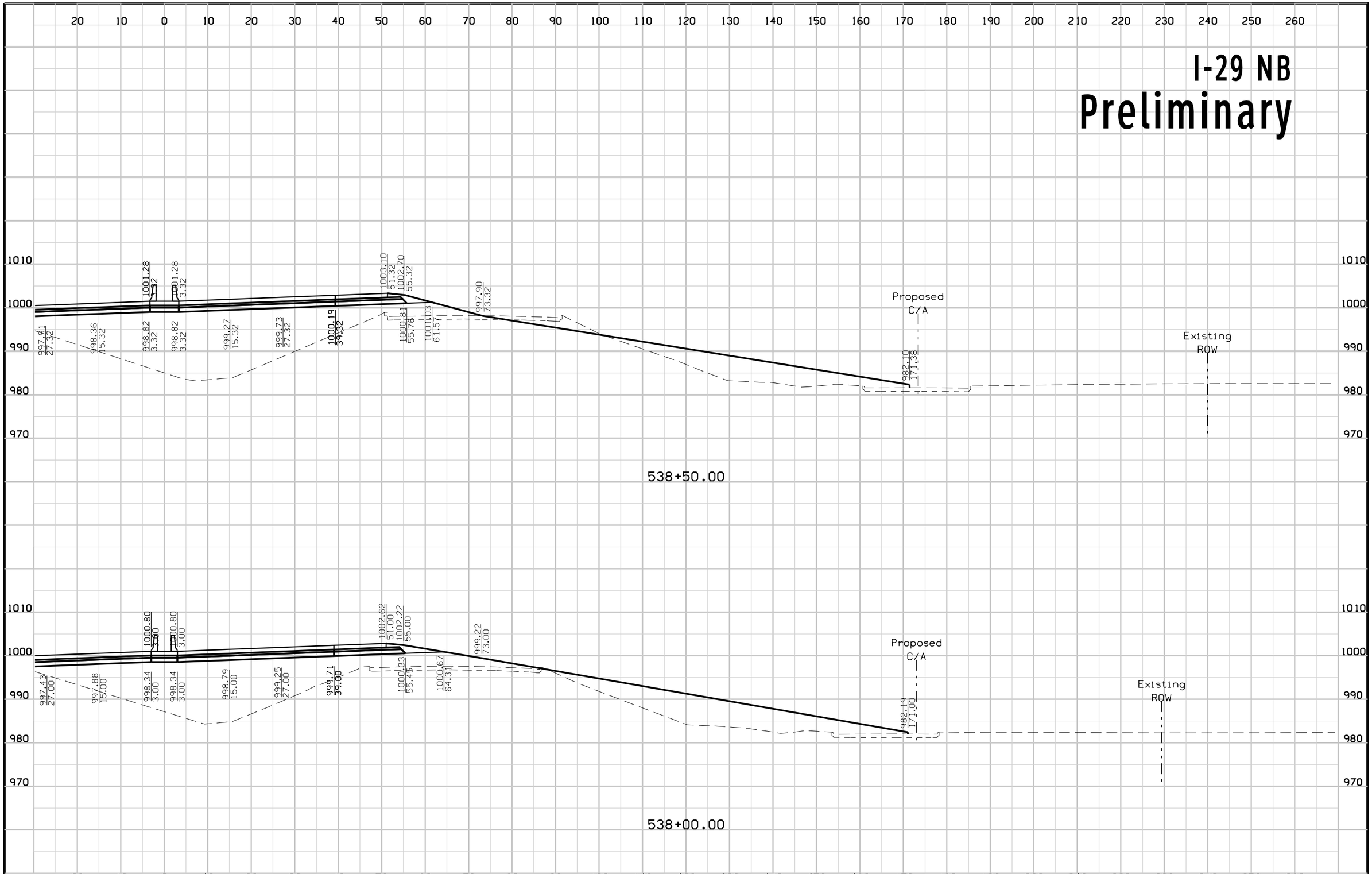
2:47:08 PM 10/23/2017 mtoapanta pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\XSSHT_ML029.sht

I-29 SB
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER W.68

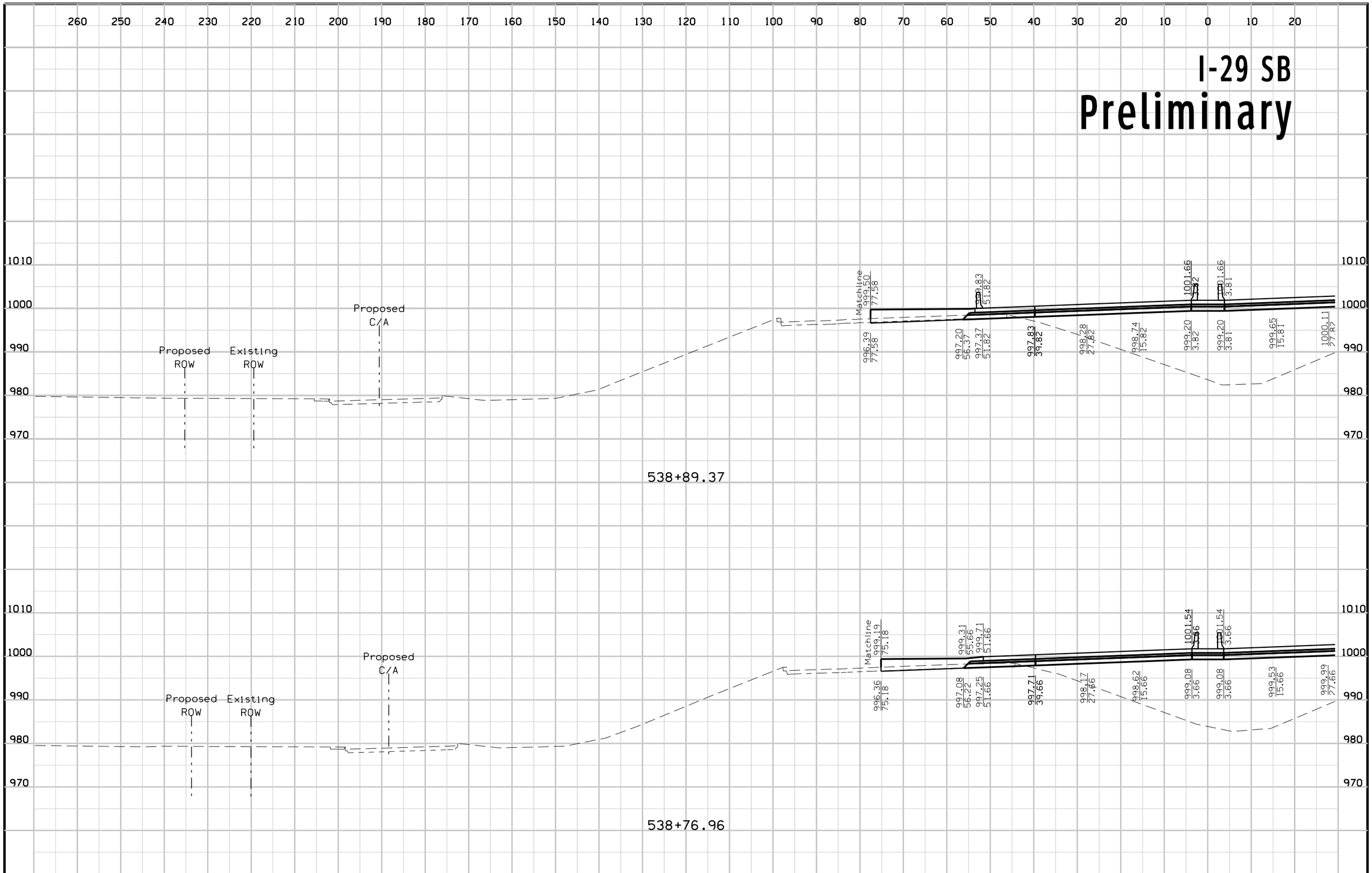
I-29 NB
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER	W.69

2:47:15 PM 10/23/2017 mtoapanta pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\XSSHT_ML029.sht

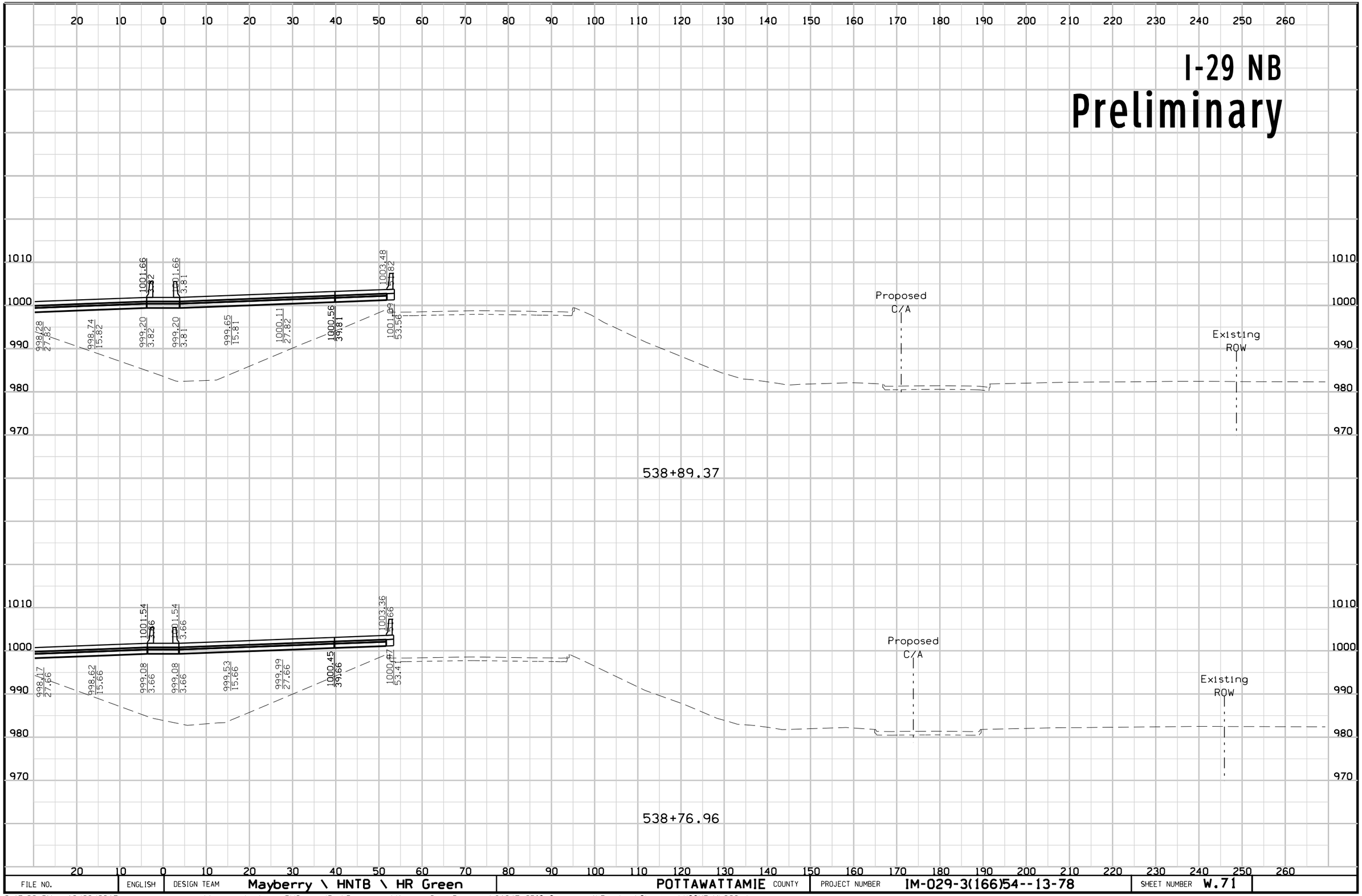
I-29 SB
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER	W.70

2:47:19 PM 10/23/2017 mtoapanta pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\XSSHT_ML029.sht

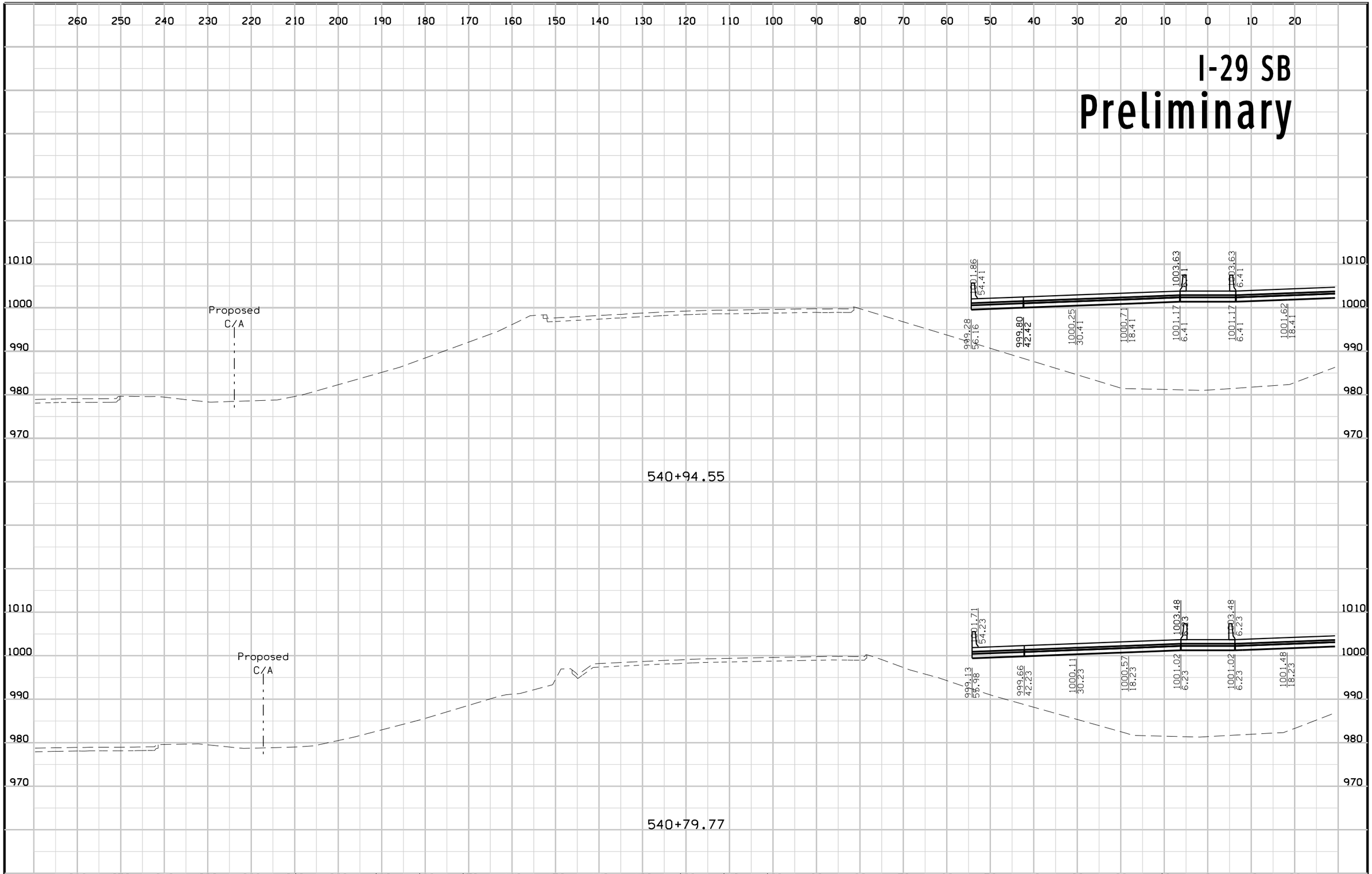
I-29 NB
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER W.71

2:47:22 PM 10/23/2017 mtoapanta pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\XSSHT_ML029.sht

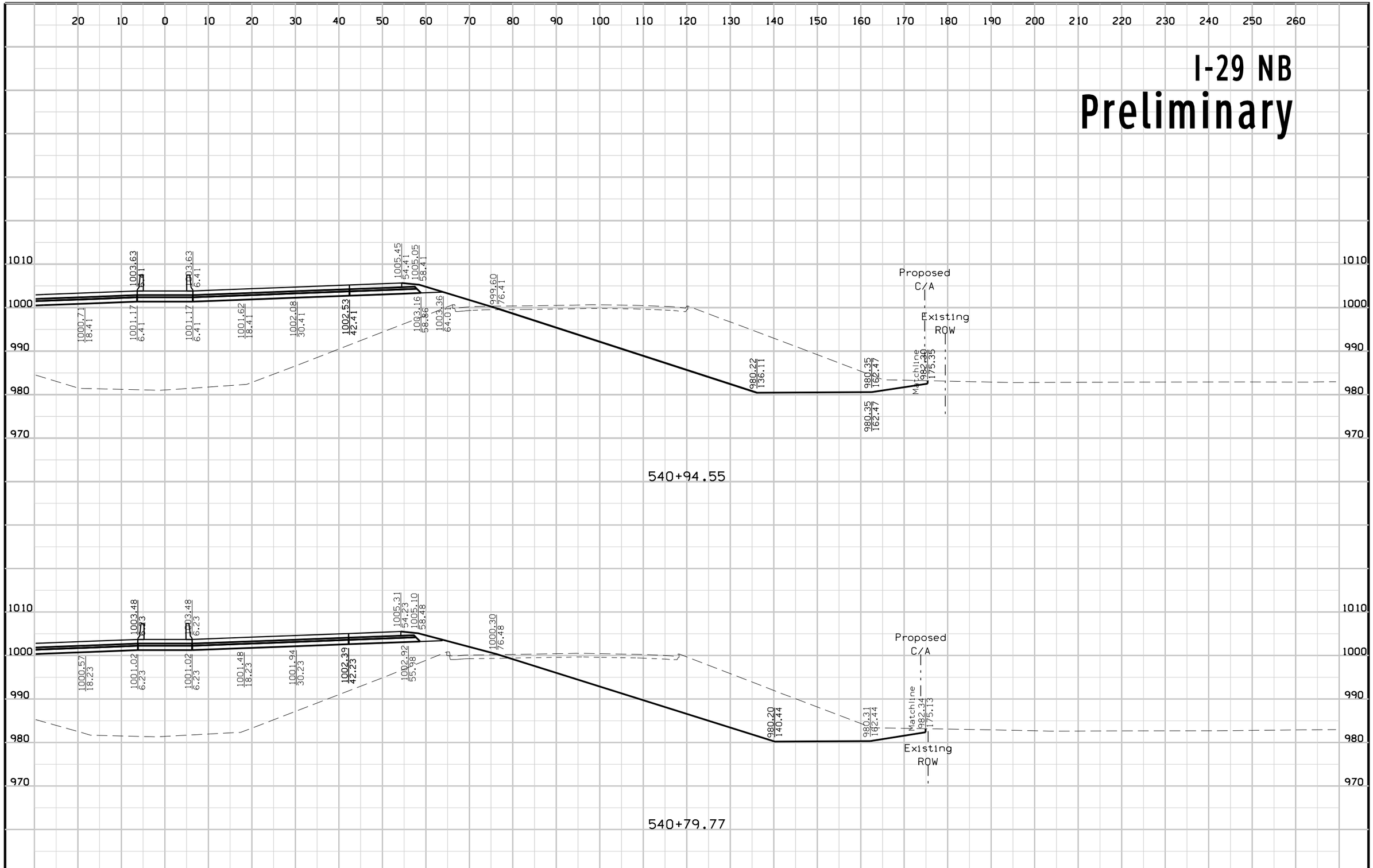
I-29 SB
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER W.72

3:05:16 PM 10/24/2017 mtoapanta pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\XSSHT_ML029.sht

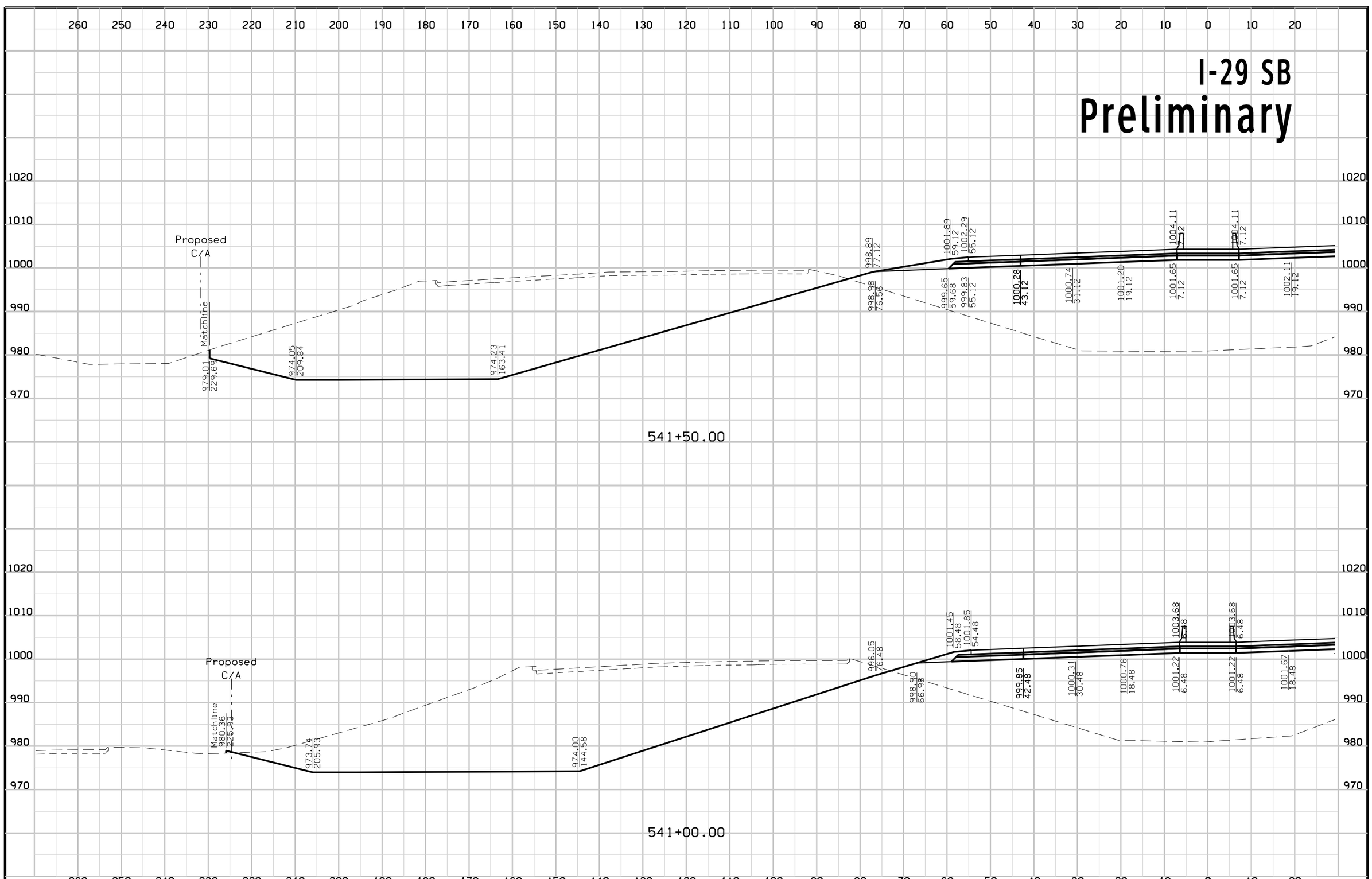
I-29 NB
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER	W.73

3:06:43 PM 10/24/2017 mtoapanta pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\XSSHT_ML029.sht

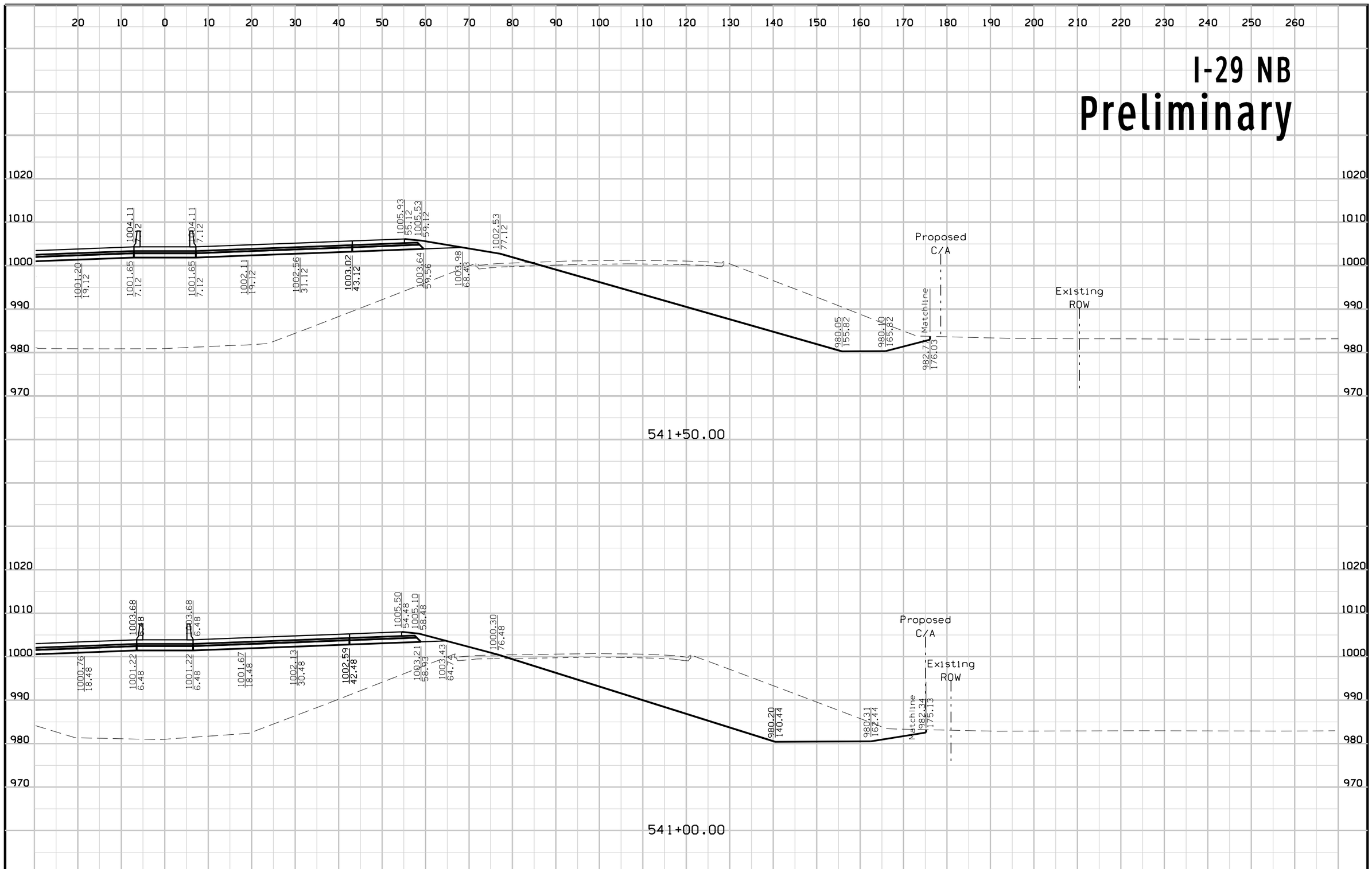
I-29 SB
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER	W.74

2:47:32 PM 10/23/2017 mtoapanta pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\XSSHT_ML029.sht

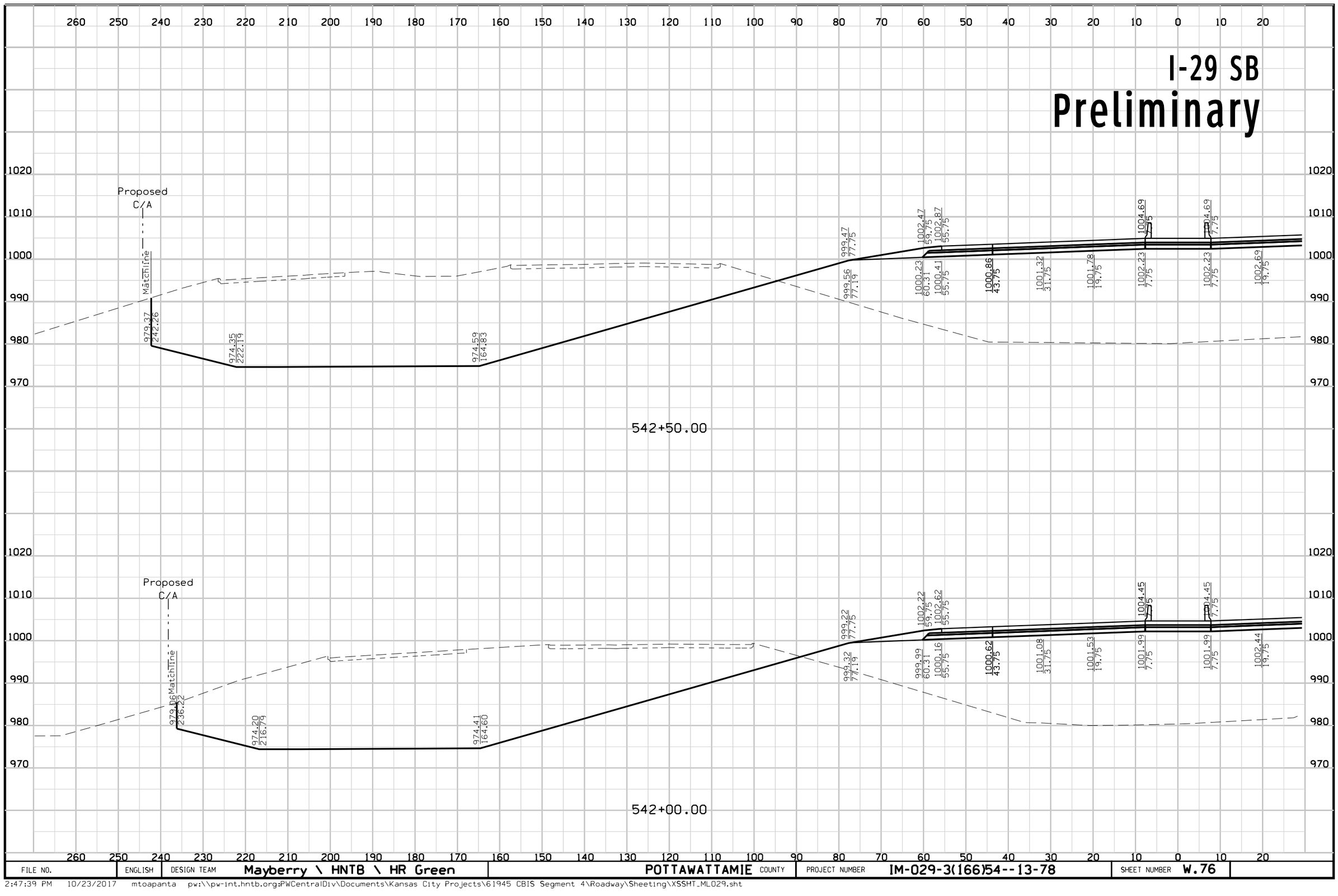
I-29 NB
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER W.75

2:47:36 PM 10/23/2017 mtoapanta pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\XSSHT_ML029.sht

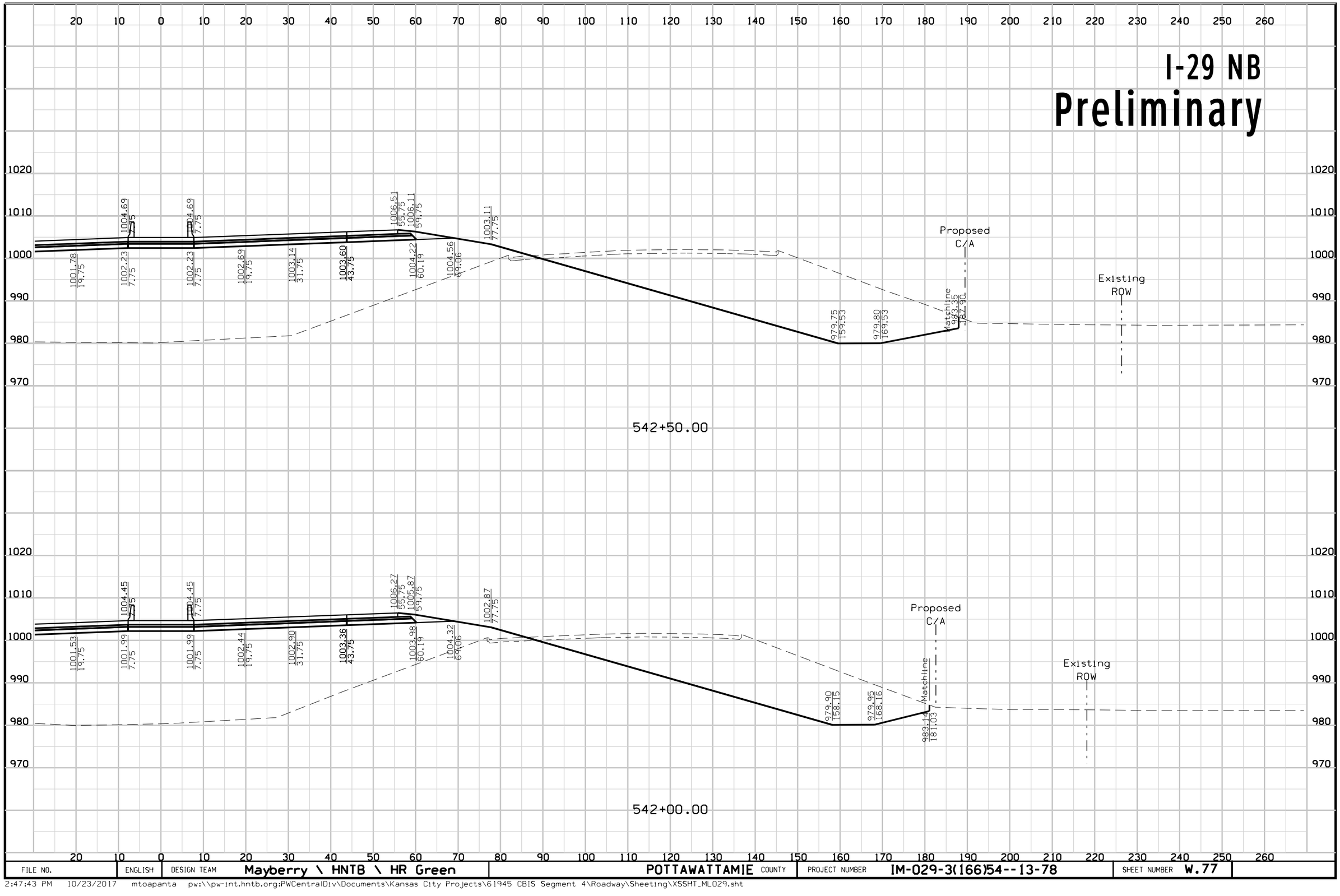
I-29 SB
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER	W.76

2:47:39 PM 10/23/2017 mtoapanta pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\XSSHT_ML029.sht

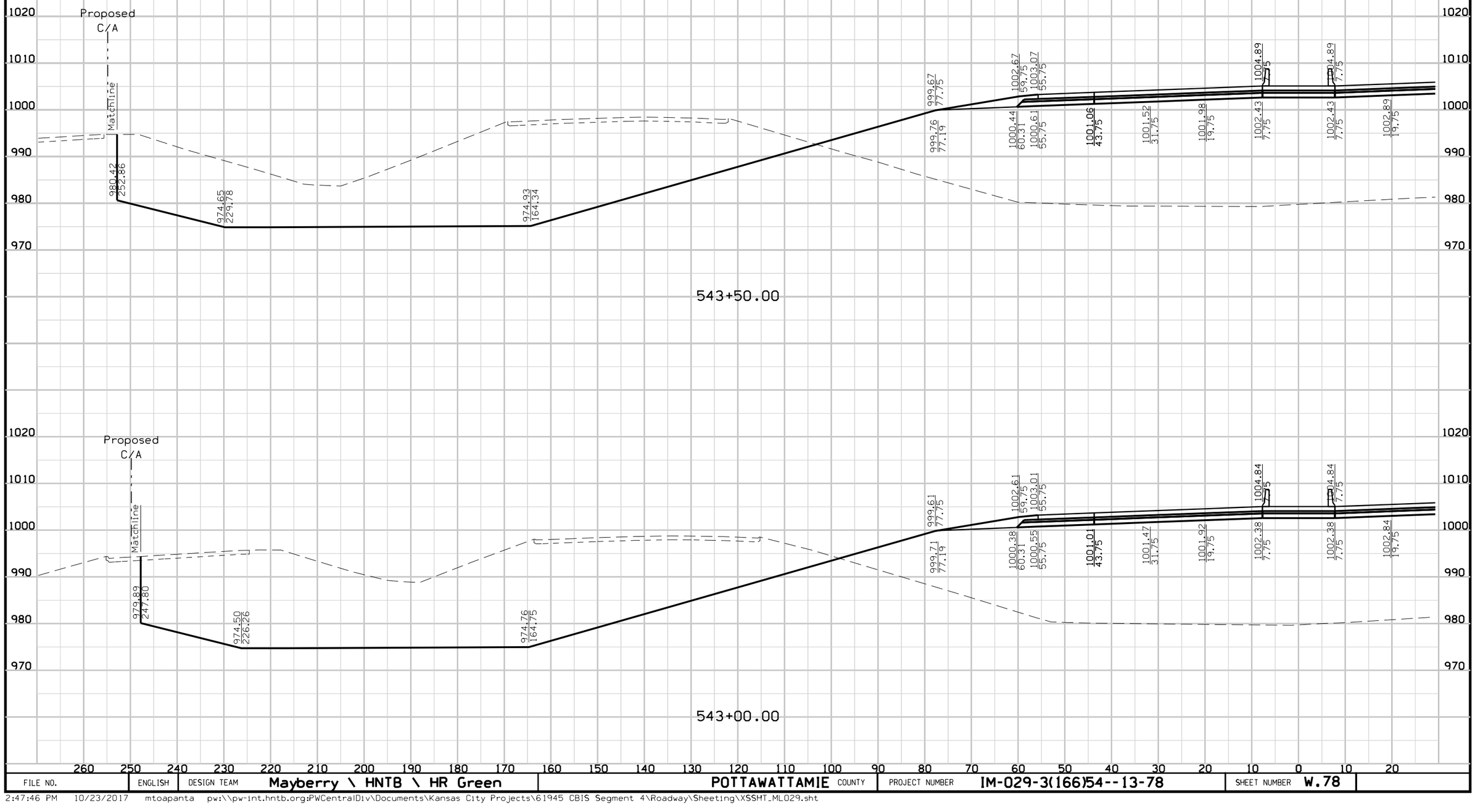
I-29 NB
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER W.77

2:47:43 PM 10/23/2017 mtoapanta pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\XSSHT_ML029.sht

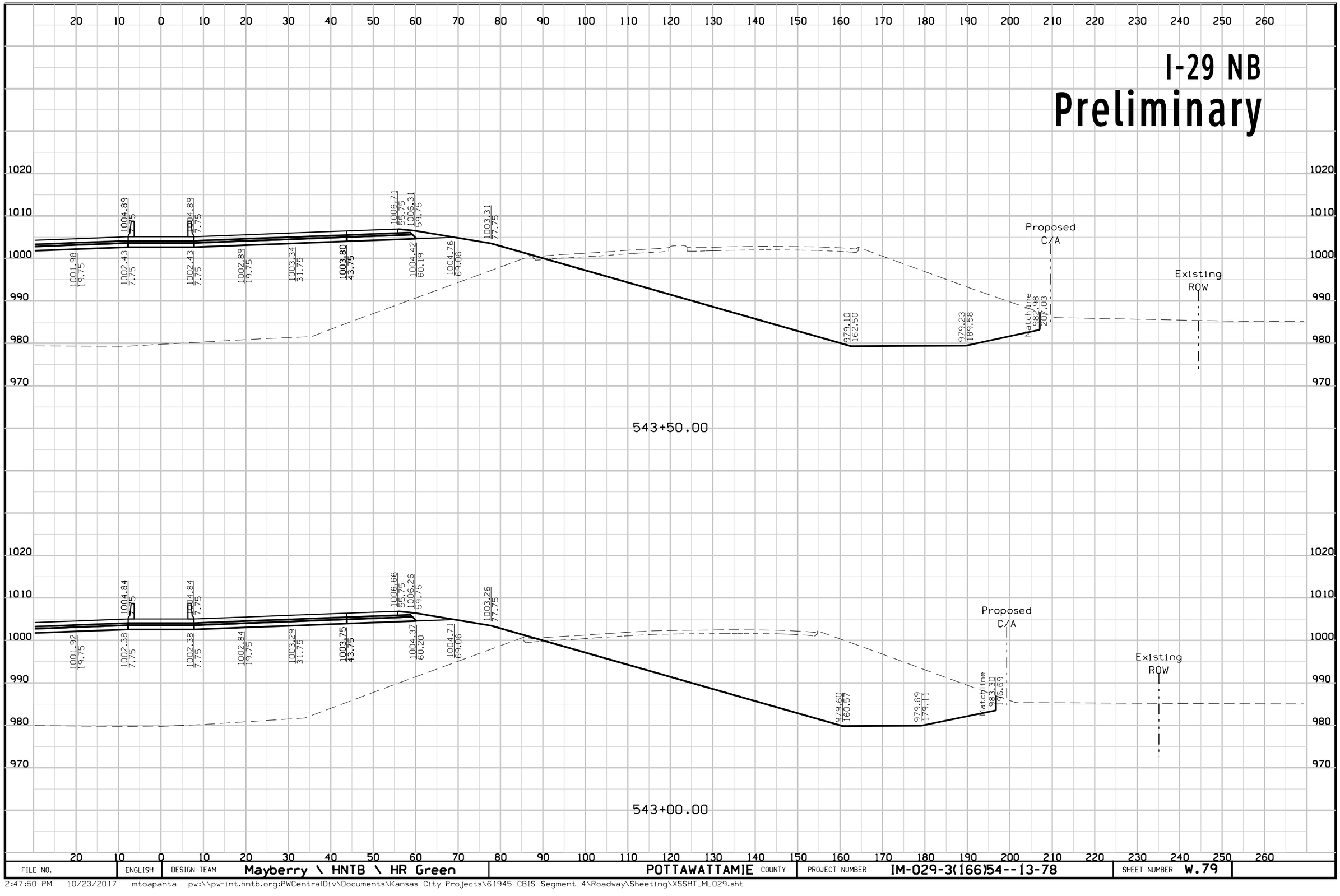
I-29 SB
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER	W.78

2:47:46 PM 10/23/2017 mtoapanta pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\XSSHT_ML029.sht

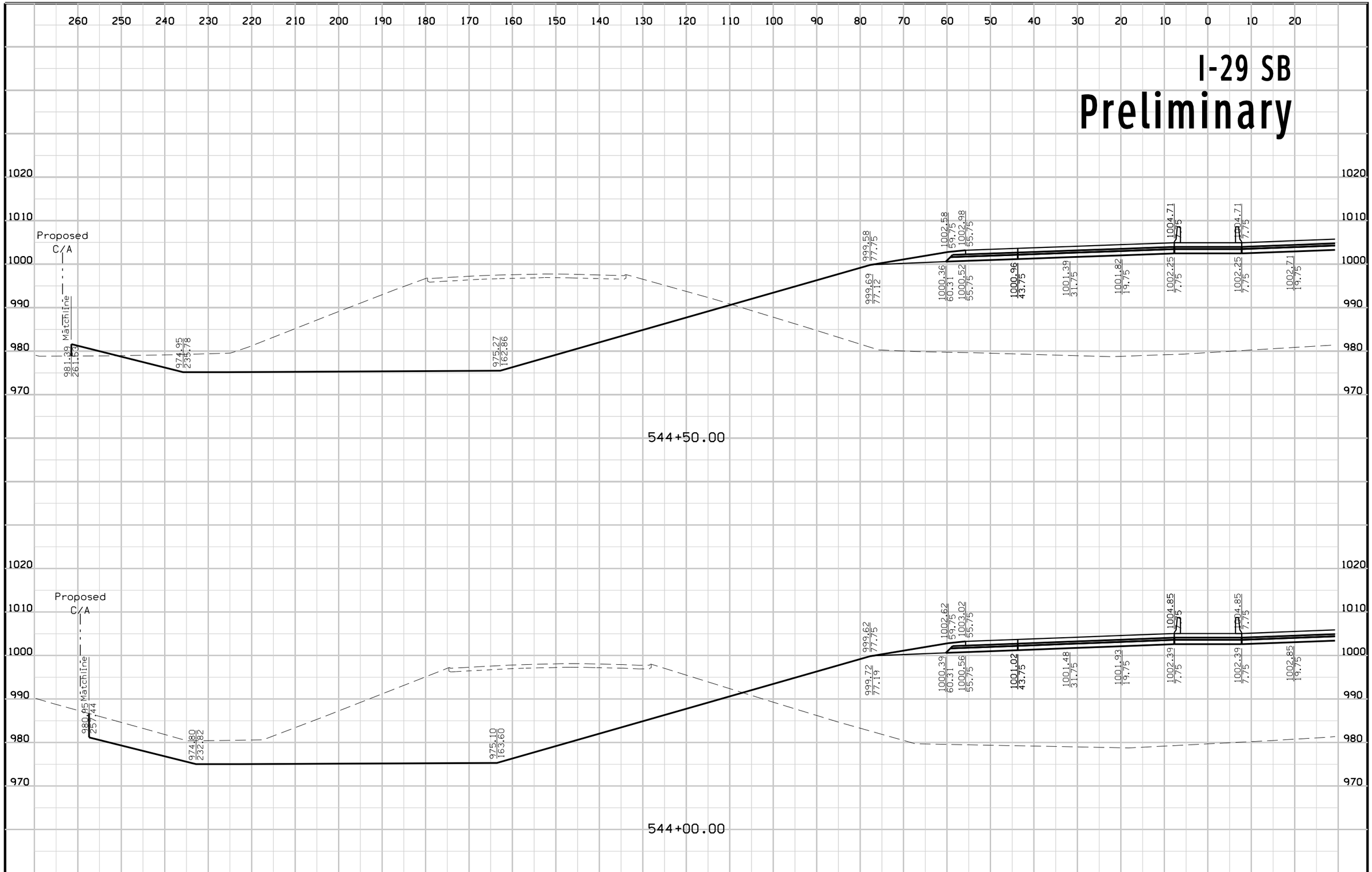
I-29 NB
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER W.79

2:47:50 PM 10/23/2017 mtoapanta pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\XSSHT_ML029.sht

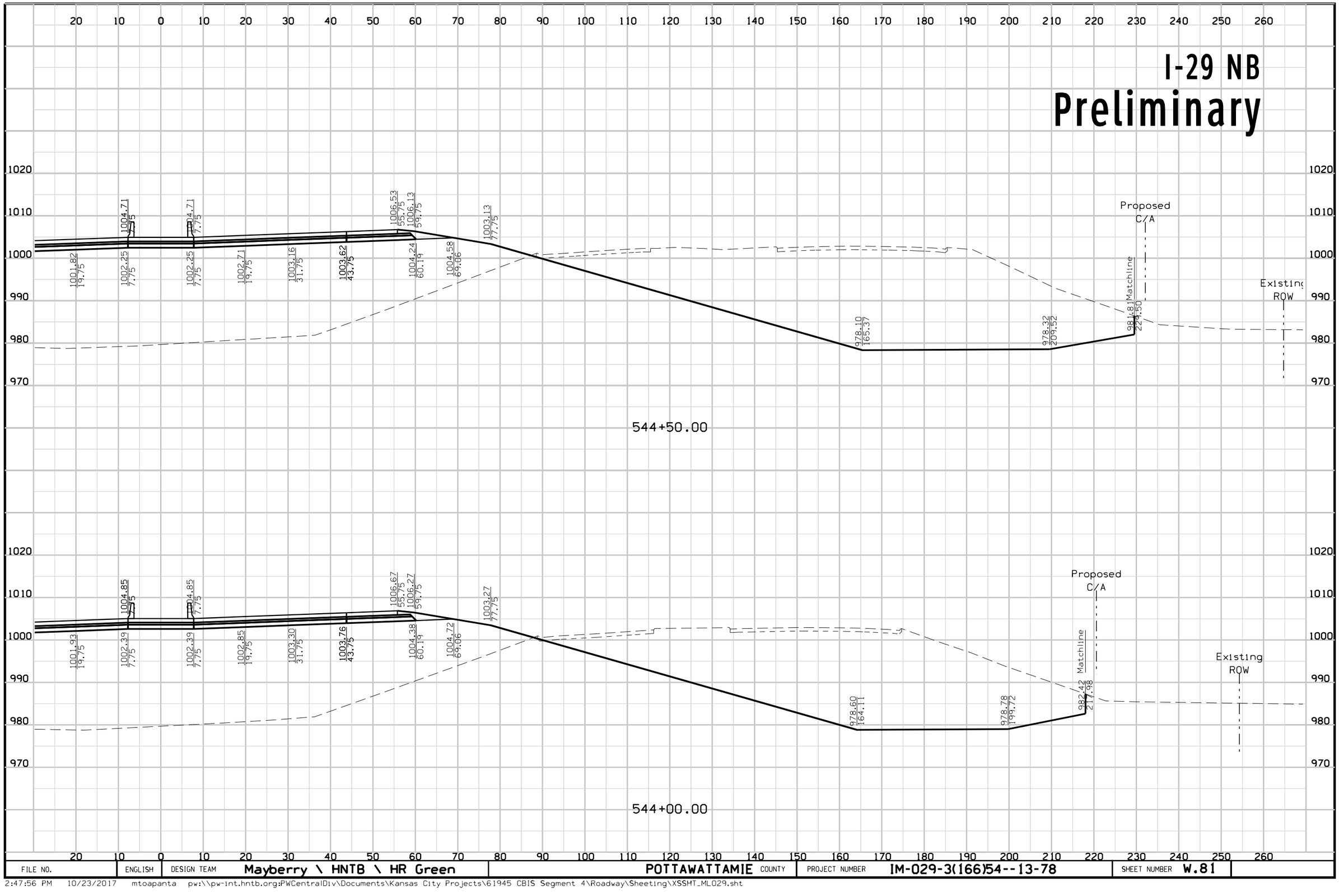
I-29 SB
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER	W.80

2:47:53 PM 10/23/2017 mtoapanta pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\XSSHT_ML029.sht

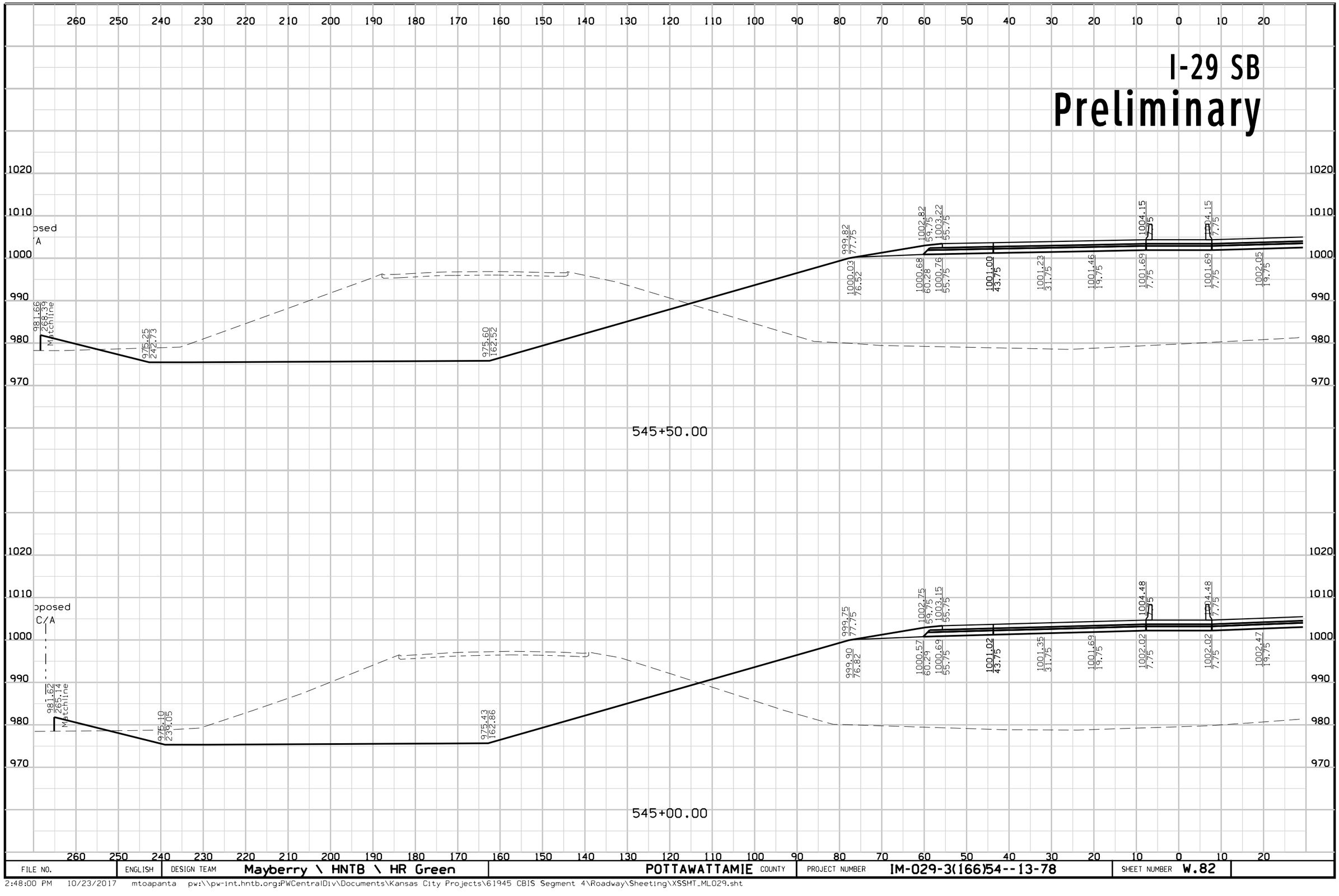
I-29 NB
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER W.81

2:47:56 PM 10/23/2017 mtoapanta pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\XSSHT_ML029.sht

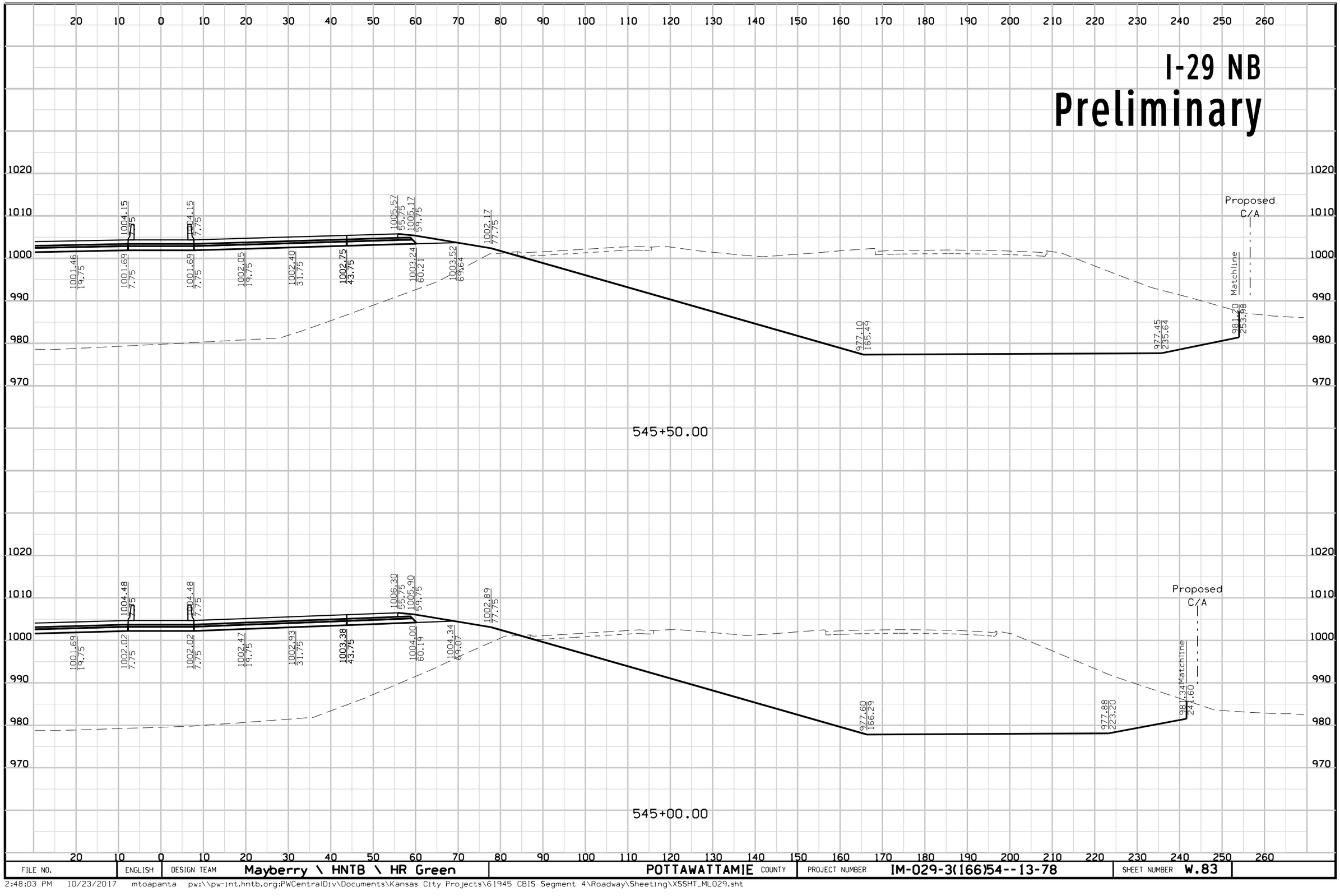
I-29 SB
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER	W.82

2:48:00 PM 10/23/2017 mtoapanta pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\XSSHT_ML029.sht

I-29 NB
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER W.83

2:48:03 PM 10/23/2017 mtoapanta pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\XSSHT_ML029.sht

I-29 SB
Preliminary

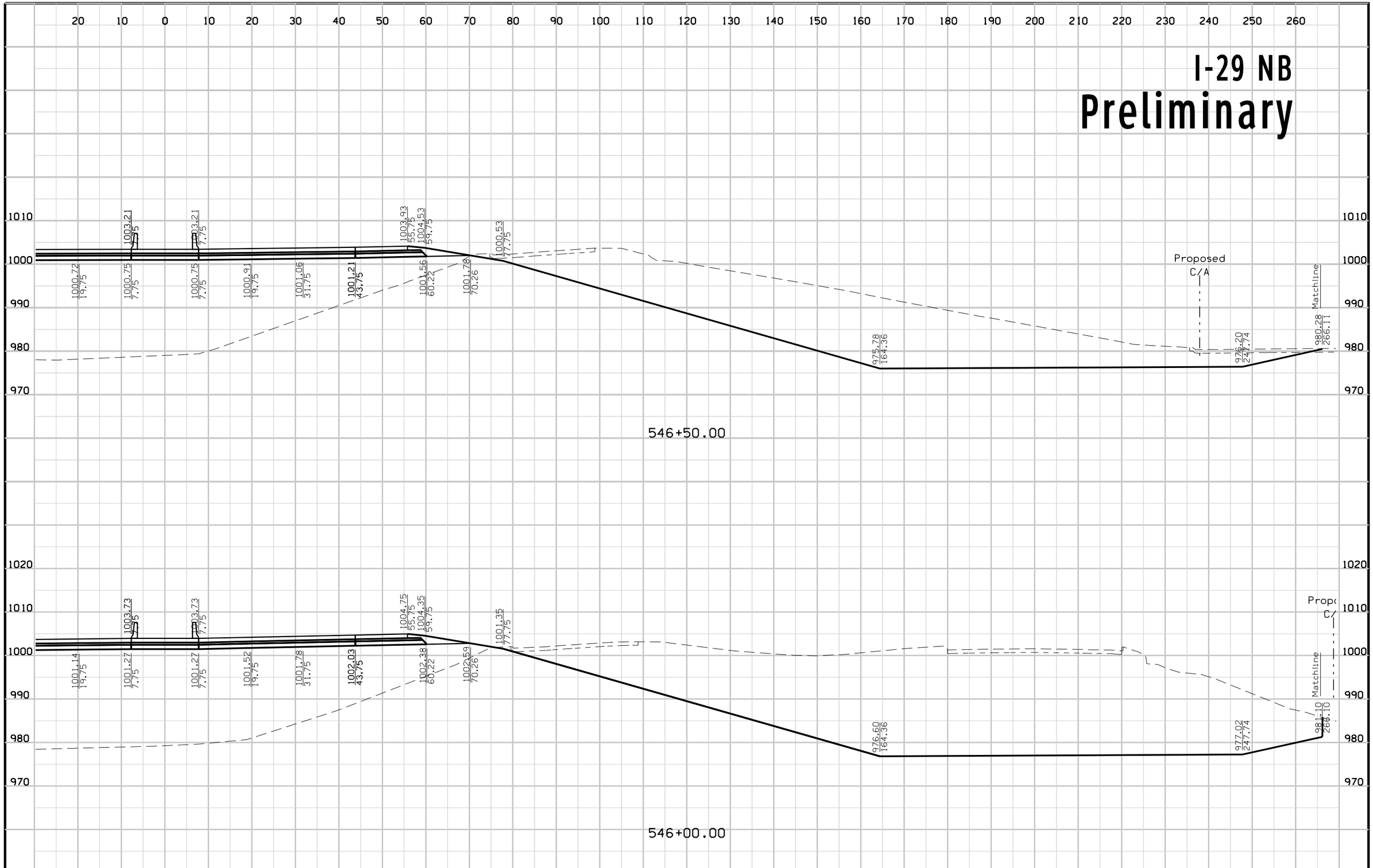
546+50.00

546+00.00

FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER	W.84

2:48:07 PM 10/23/2017 mtoapanta pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\XSSHT_ML029.sht

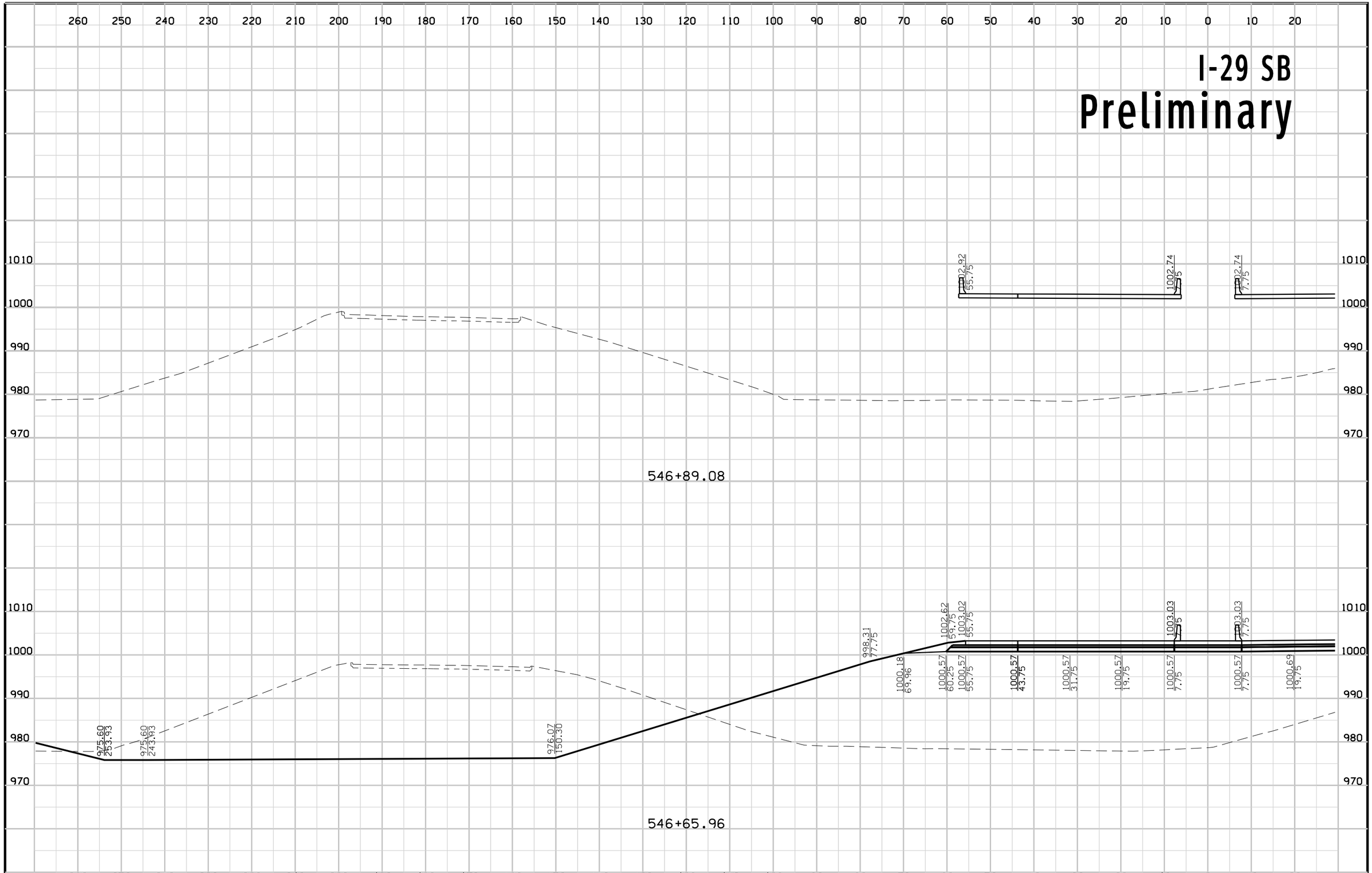
I-29 NB
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER W.85

2:48:10 PM 10/23/2017 mtoapanta pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\XSSHT_ML029.sht

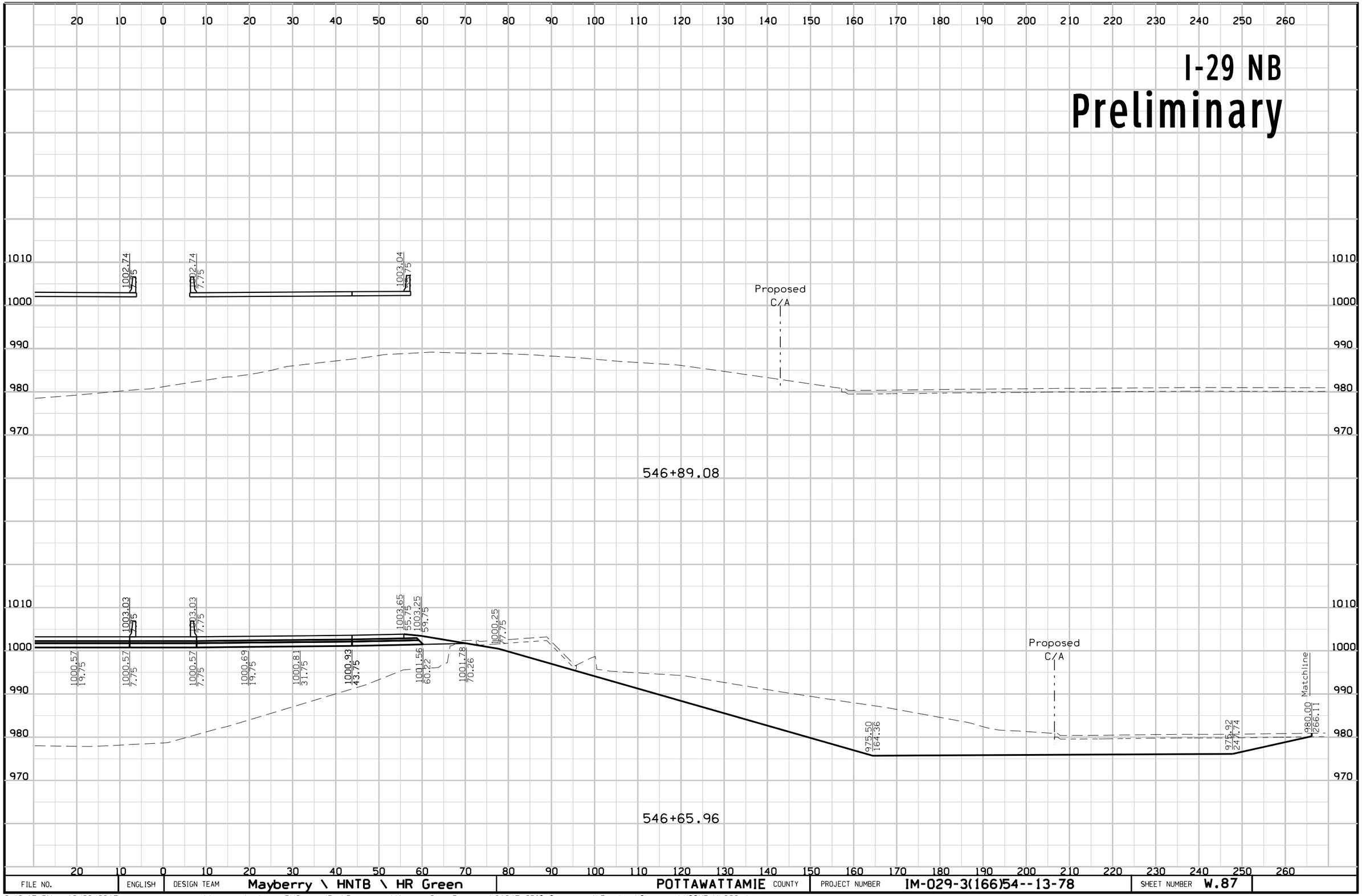
I-29 SB
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER	W.86

2:48:13 PM 10/23/2017 mtoapanta pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\XSSHT_ML029.sht

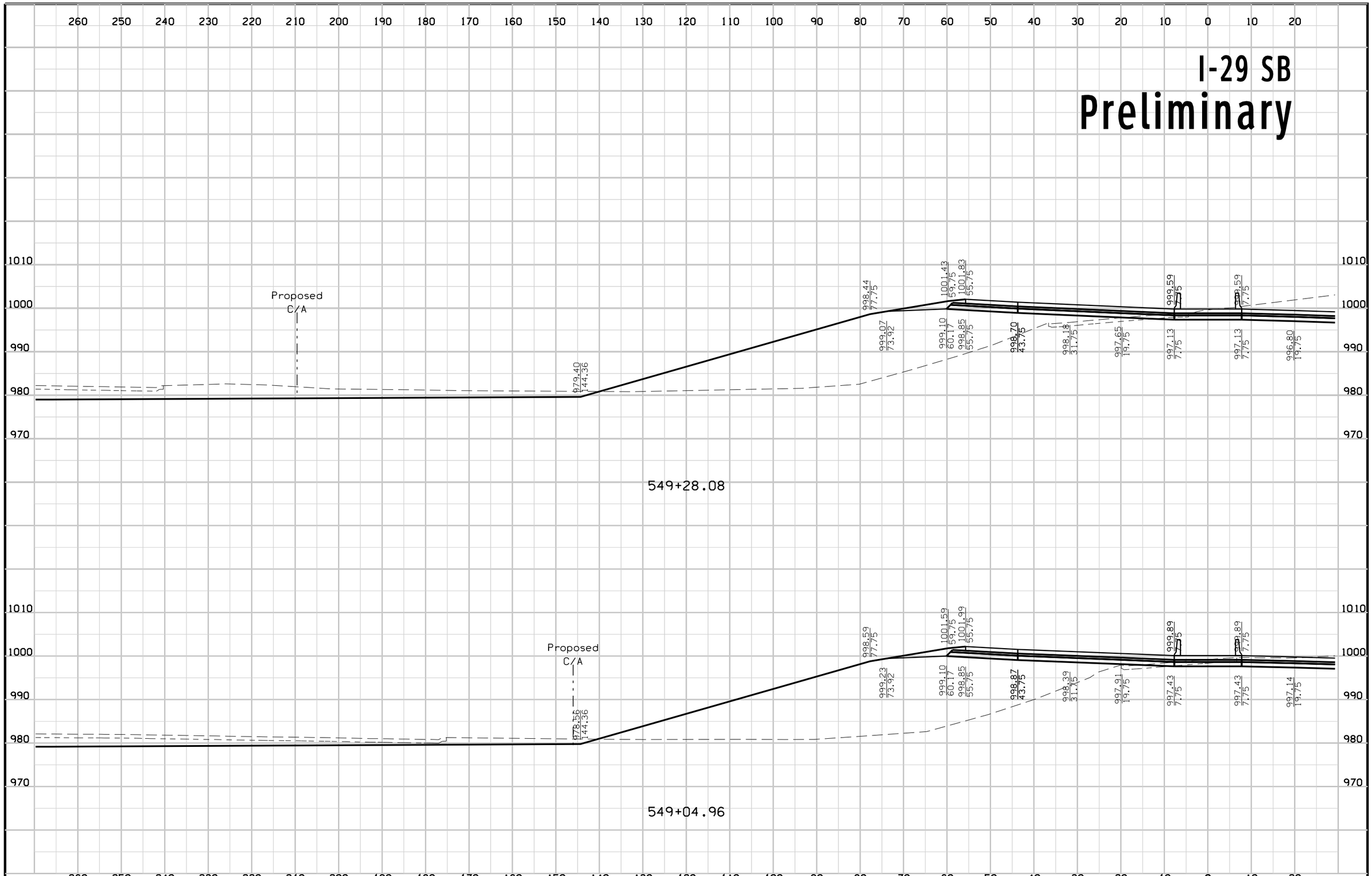
I-29 NB
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER W.87

2:48:17 PM 10/23/2017 mtoapanta pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\XSSHT_ML029.sht

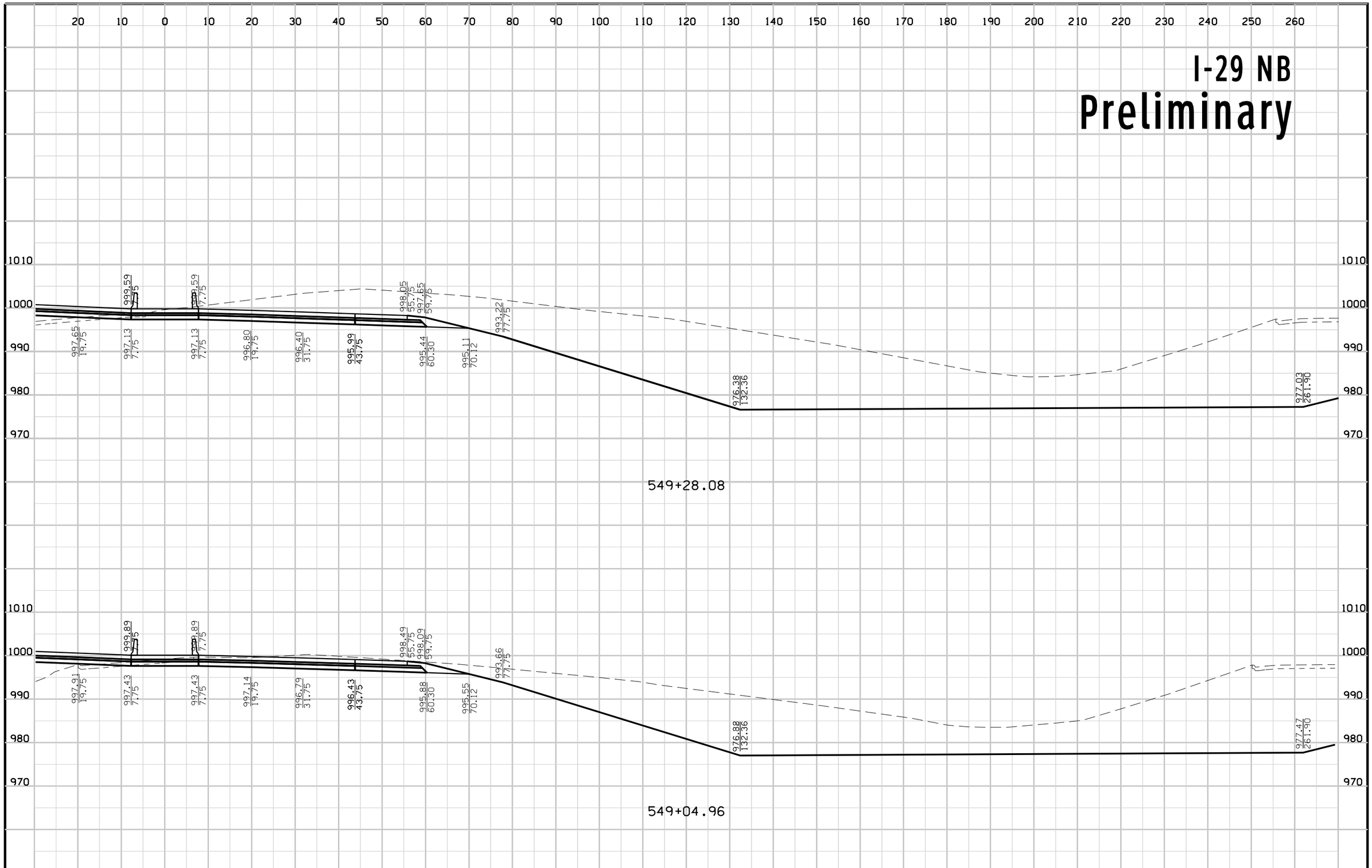
I-29 SB
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER W.88

2:48:20 PM 10/23/2017 mtoapanta pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\XSSHT_ML029.sht

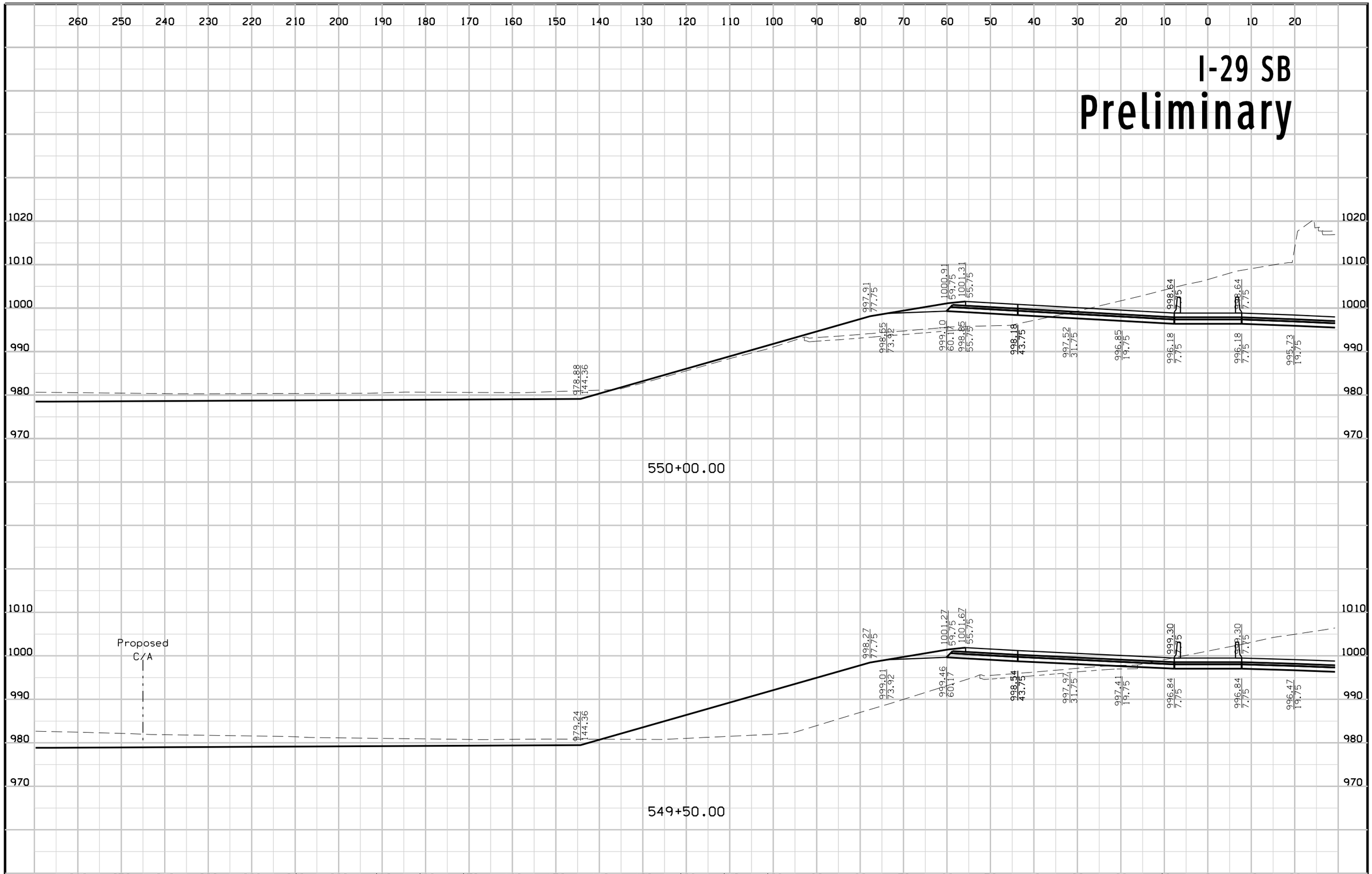
I-29 NB
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER	W.89

2:48:24 PM 10/23/2017 mtoapanta pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\XSSHT_ML029.sht

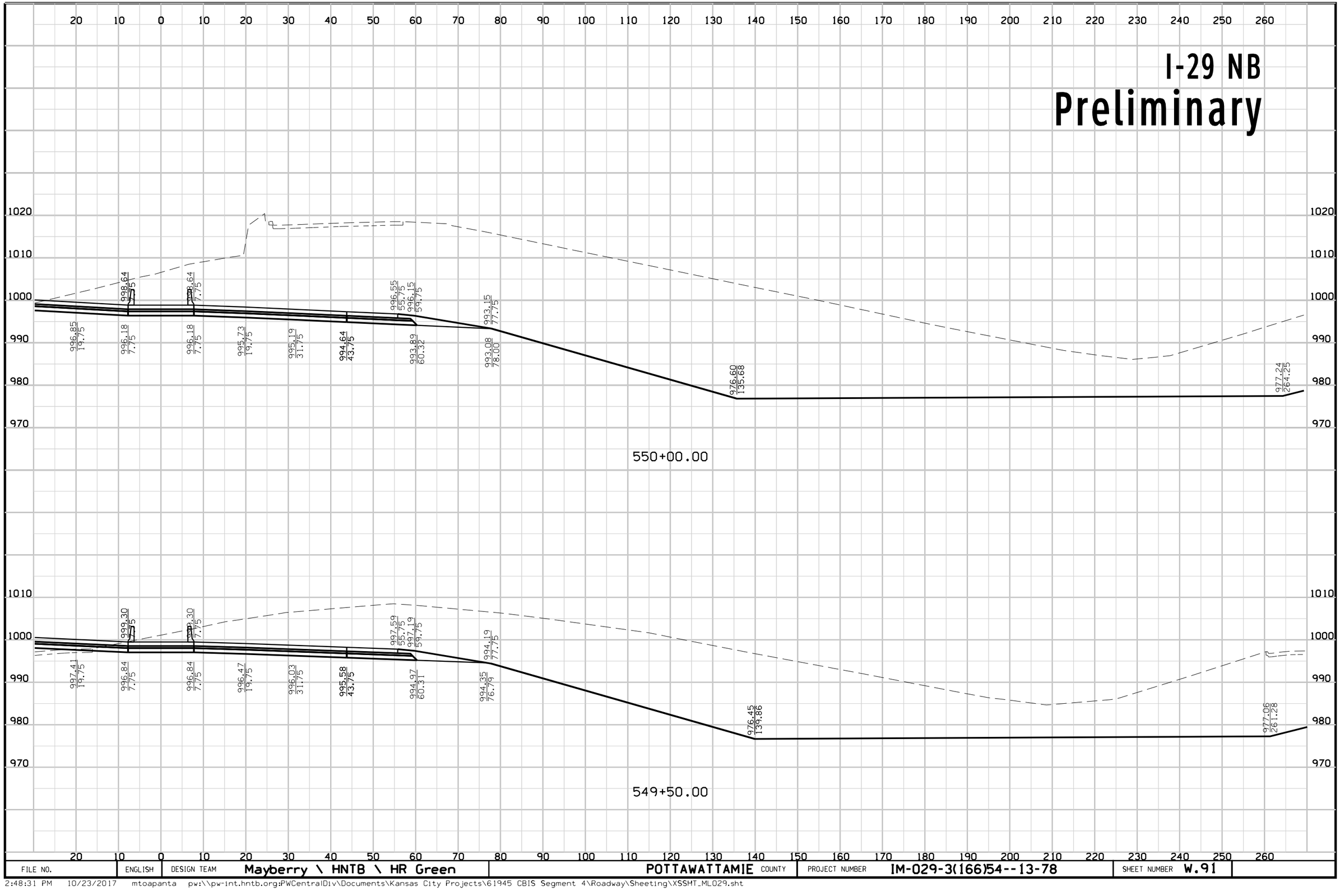
I-29 SB
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER W.90

2:48:27 PM 10/23/2017 mtoapanta pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\XSSHT_ML029.sht

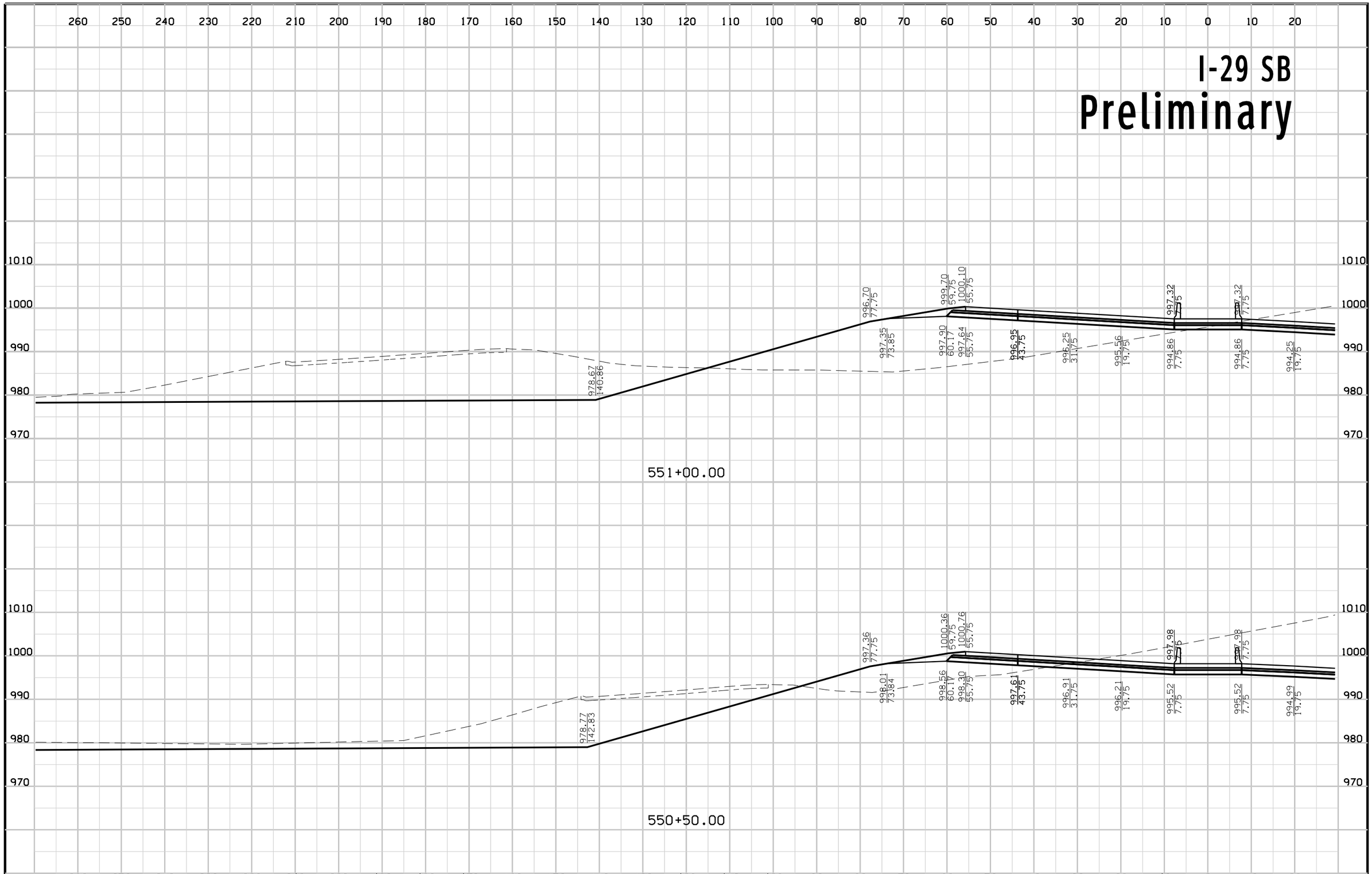
I-29 NB
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER W.91

2:48:31 PM 10/23/2017 mtoapanta pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\XSSHT_ML029.sht

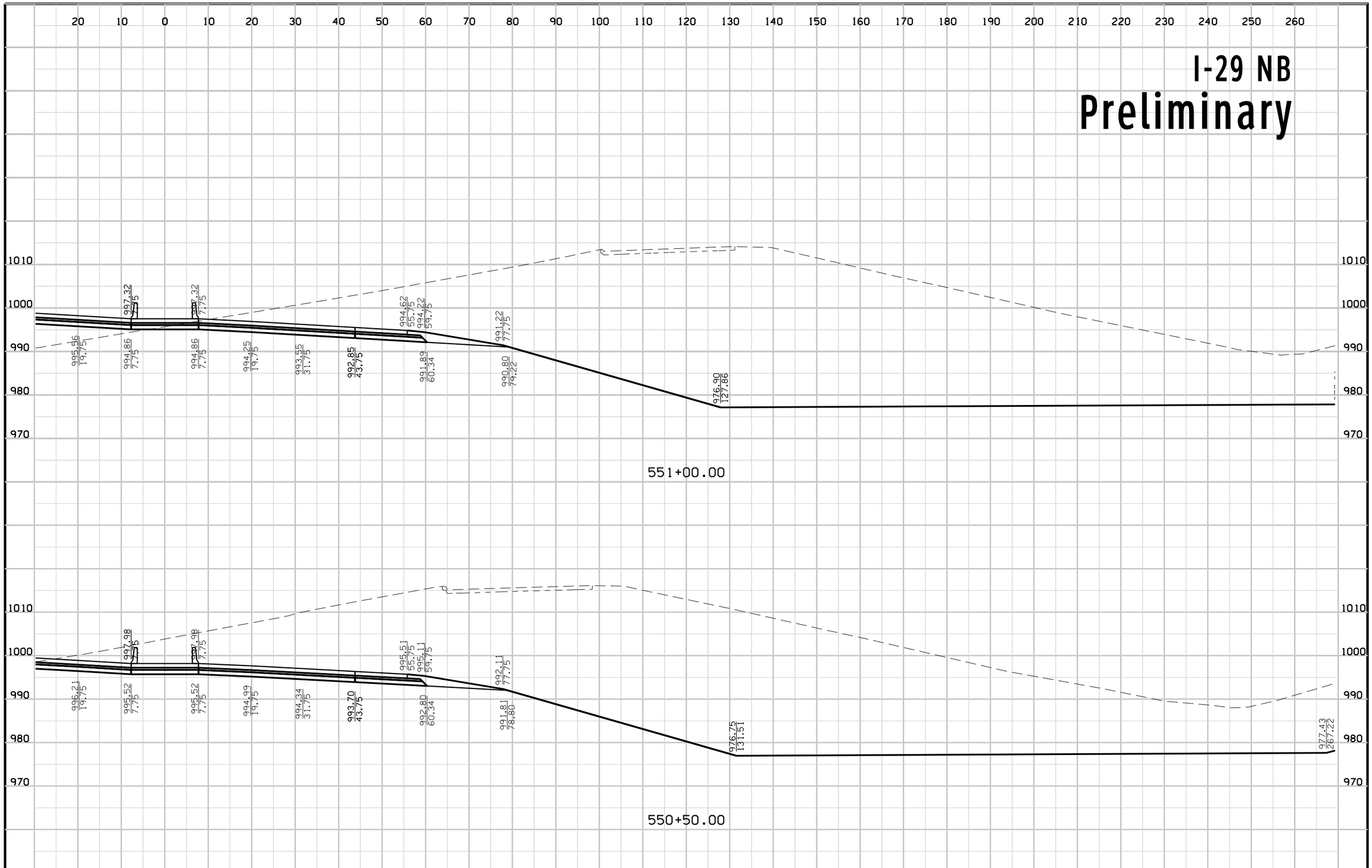
I-29 SB
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER	W.92

2:48:34 PM 10/23/2017 mtoapanta pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\XSSHT_ML029.sht

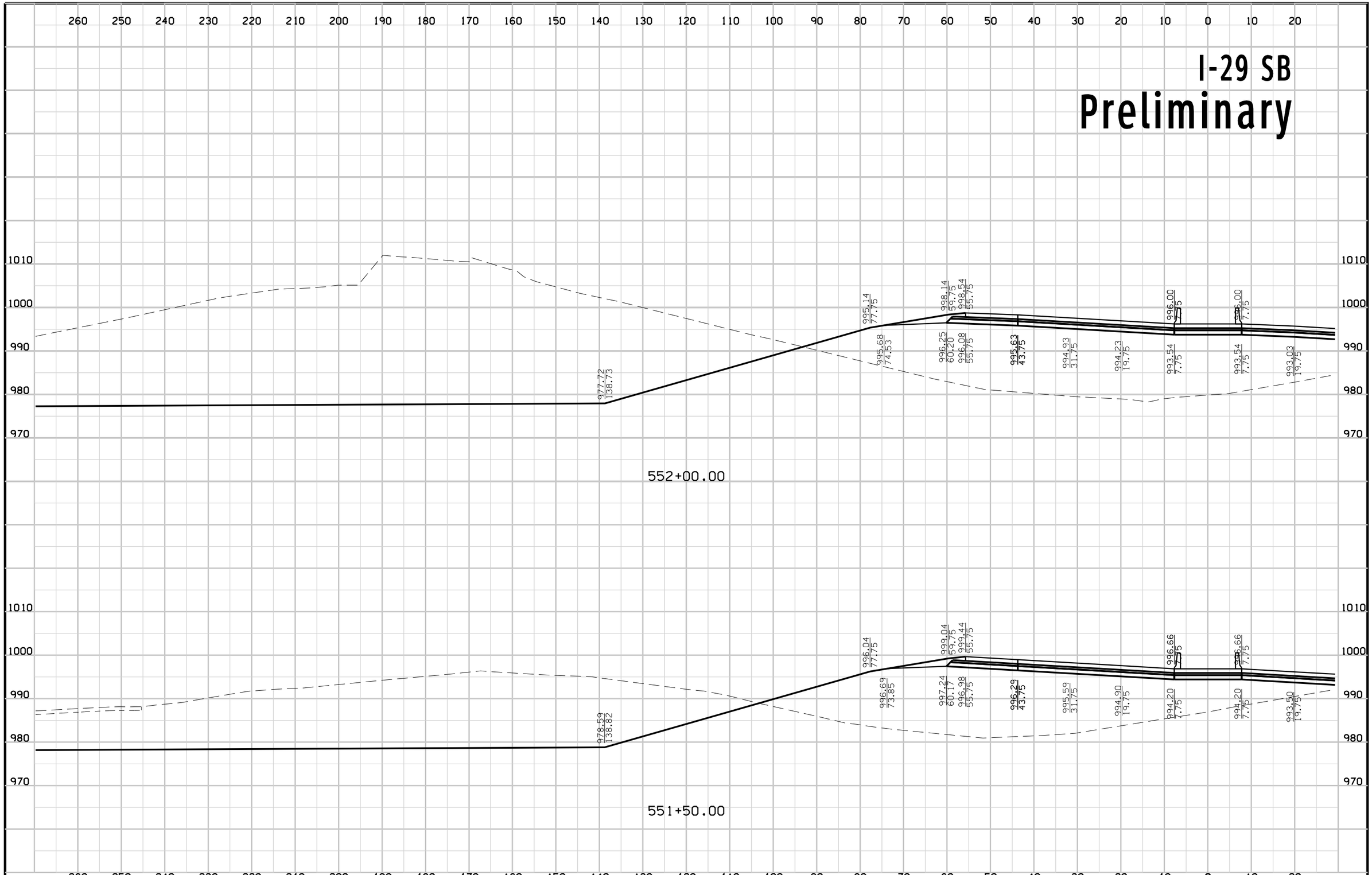
I-29 NB
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER IM-029-3(166)54--13-78	SHEET NUMBER W.93

2:48:38 PM 10/23/2017 mtoapanta pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\XSSHT_ML029.sht

I-29 SB
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER	W.94

2:48:41 PM 10/23/2017 mtoapanta pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\XSSHT_ML029.sht

I-29 NB
Preliminary

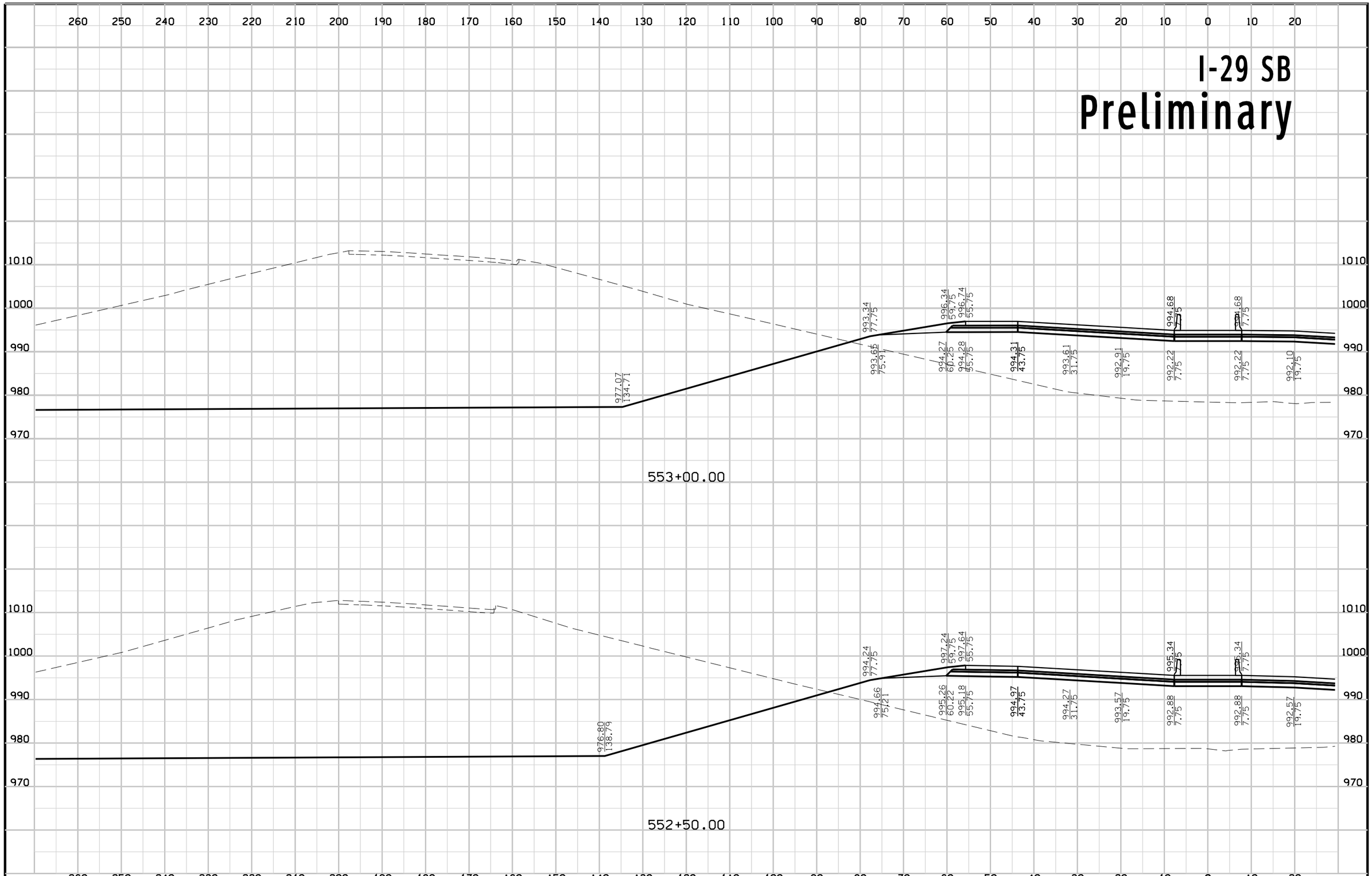
552+00.00

551+50.00

FILE NO.	ENGLISH	DESIGN TEAM	PROJECT NUMBER	SHEET NUMBER
		Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY IM-029-3(166)54--13-78	W.95

2:48:45 PM 10/23/2017 mtoapanta pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\XSSHT_ML029.sht

I-29 SB
Preliminary

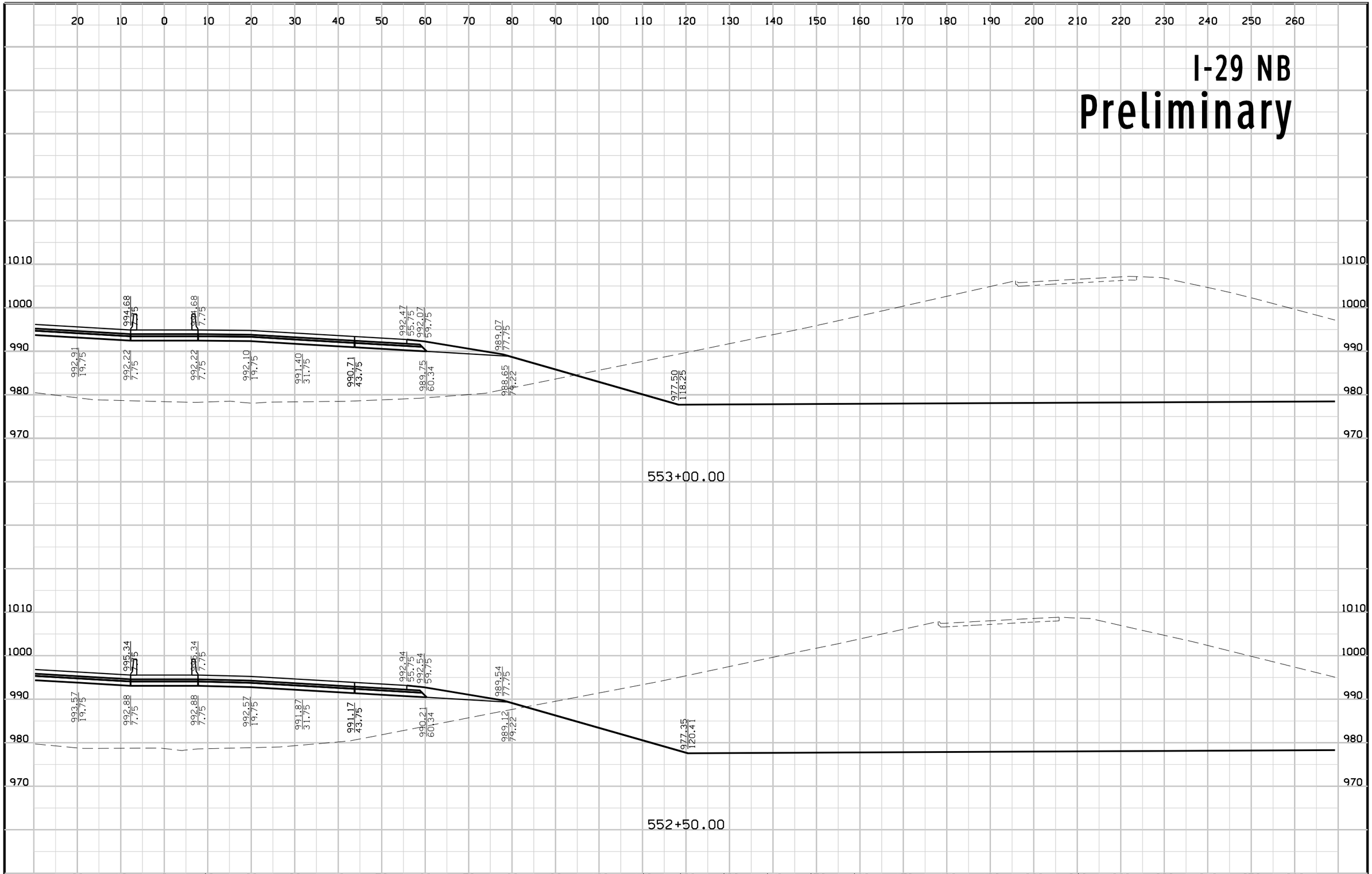


FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER	W.96

2:48:48 PM 10/23/2017 mtoapanta pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\XSSHT_ML029.sht

I-29 NB

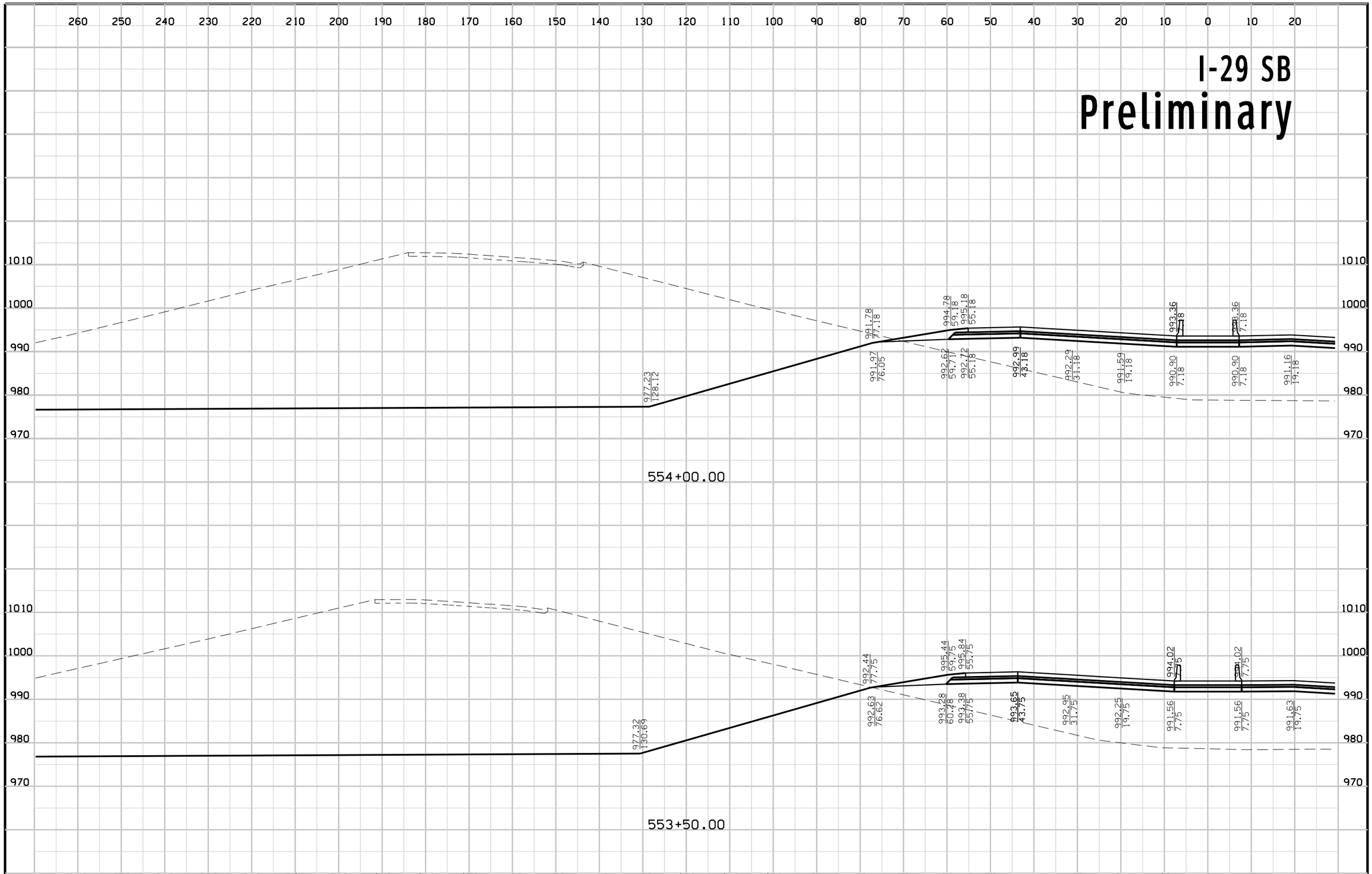
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER W.97

2:48:52 PM 10/23/2017 mtoapanta pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\XSSHT_ML029.sht

I-29 SB
Preliminary

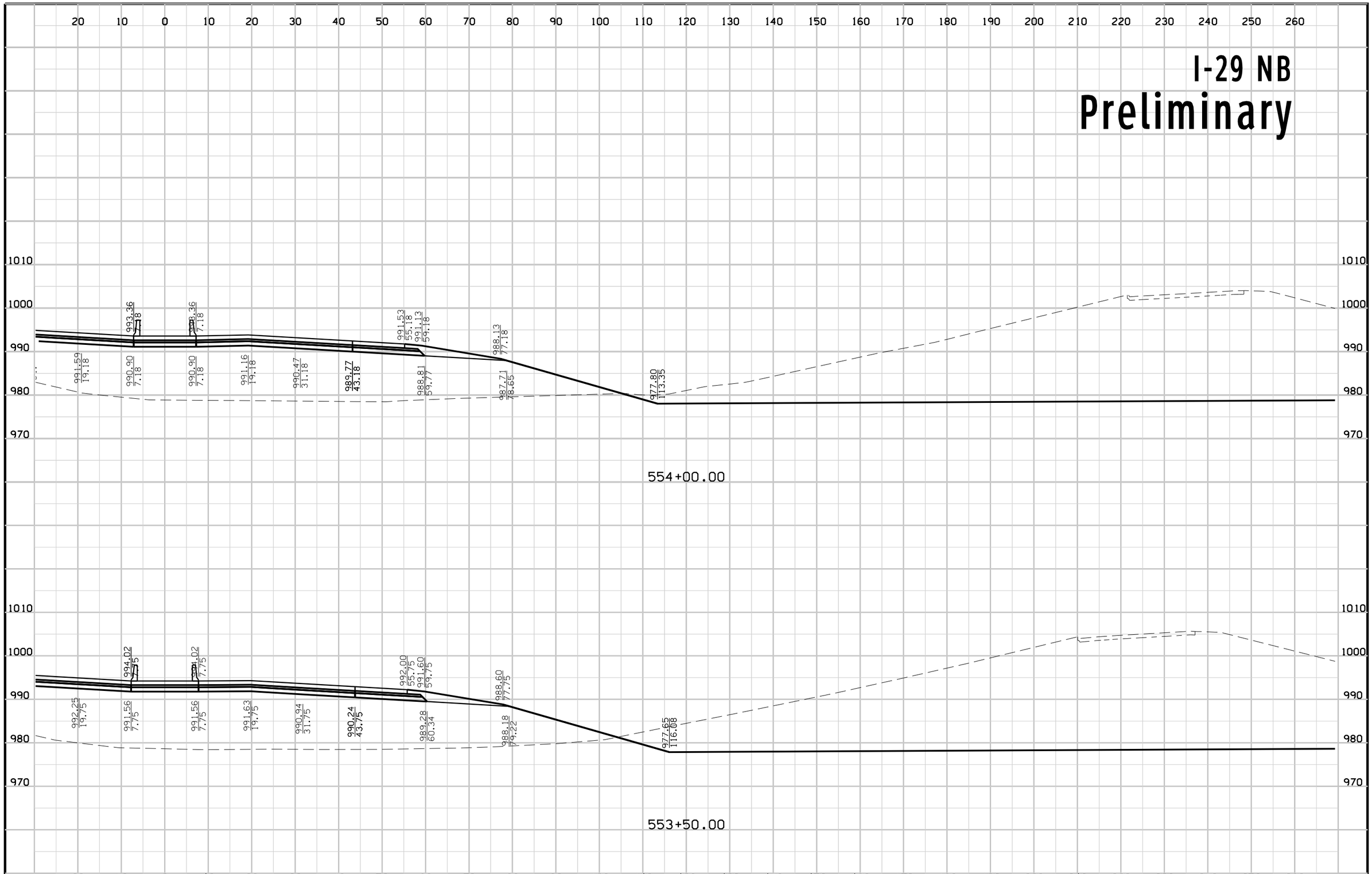


FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER	W.98

2:48:55 PM 10/23/2017 mtoapanta pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\XSSHT_ML029.sht

I-29 NB

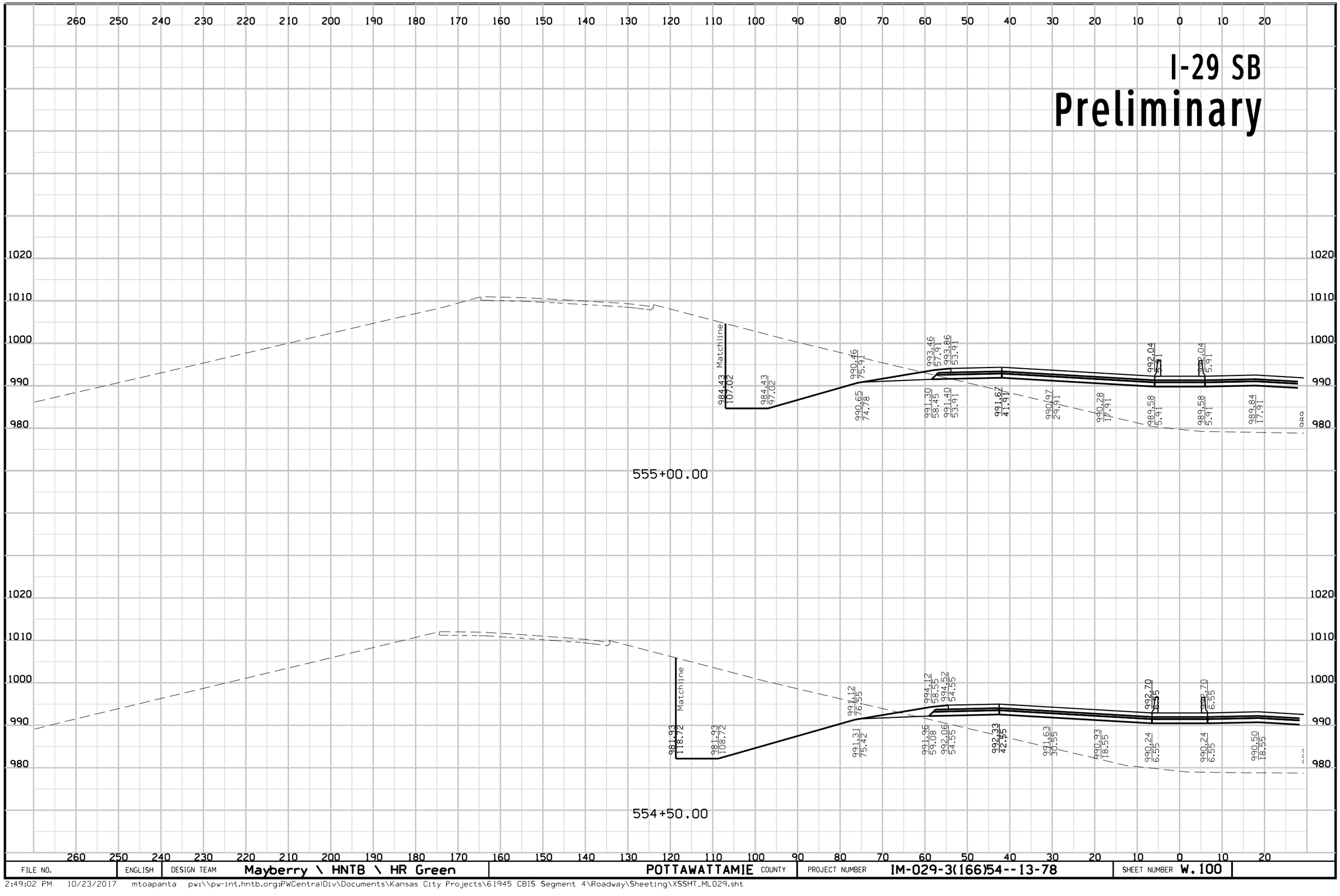
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER W.99

2:48:59 PM 10/23/2017 mtoapanta pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\XSSHT_ML029.sht

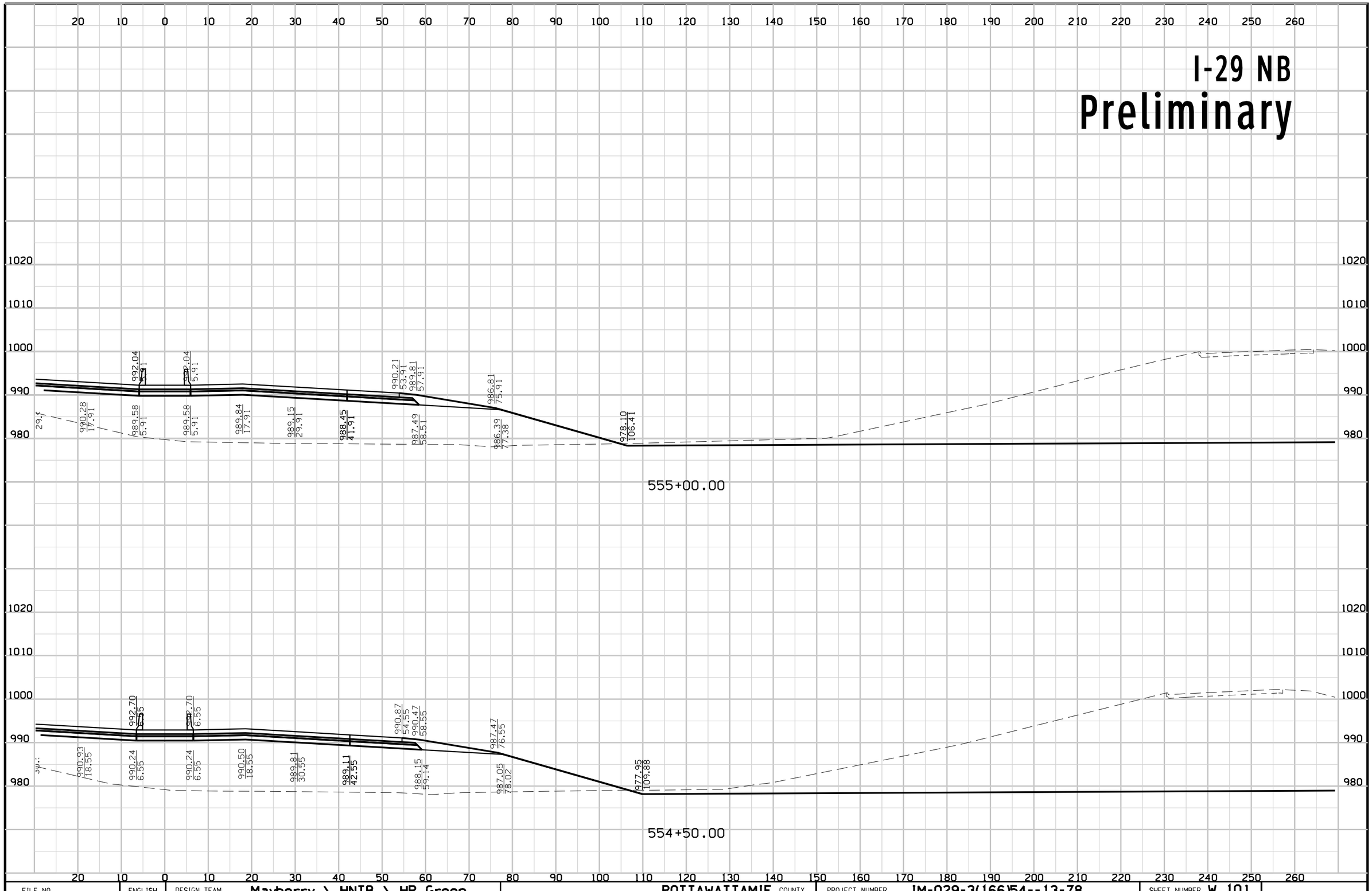
I-29 SB
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER W.100

2:49:02 PM 10/23/2017 mtoapanta pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\XSSHT_ML029.sht

I-29 NB
Preliminary

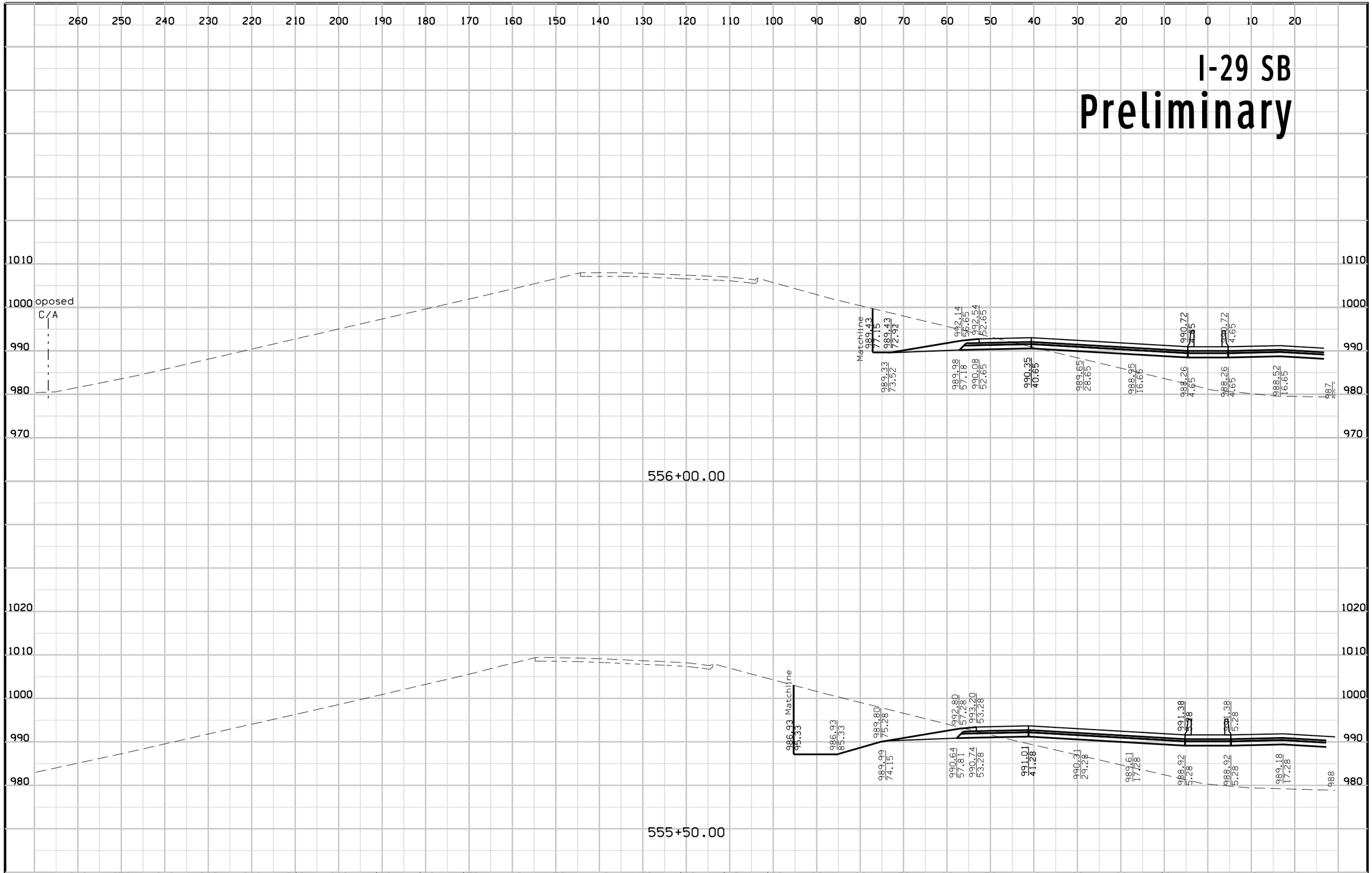


FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER W.101

2:49:05 PM 10/23/2017 mtoapanta pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\XSSHT_ML029.sht

I-29 SB

Preliminary

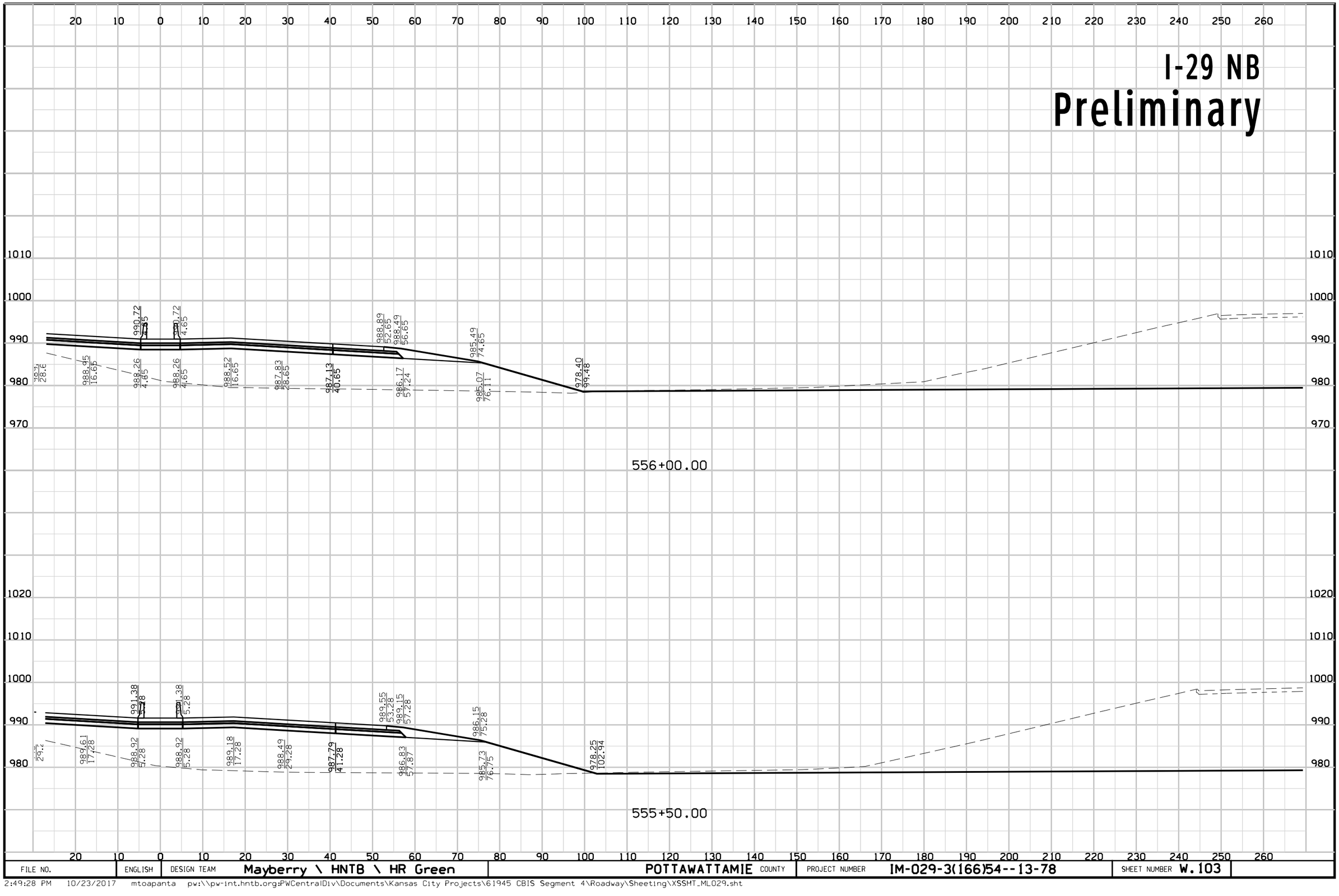


FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER W.102

2:49:24 PM 10/23/2017 mtoapanta pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\XSSHT_ML029.sht

I-29 NB

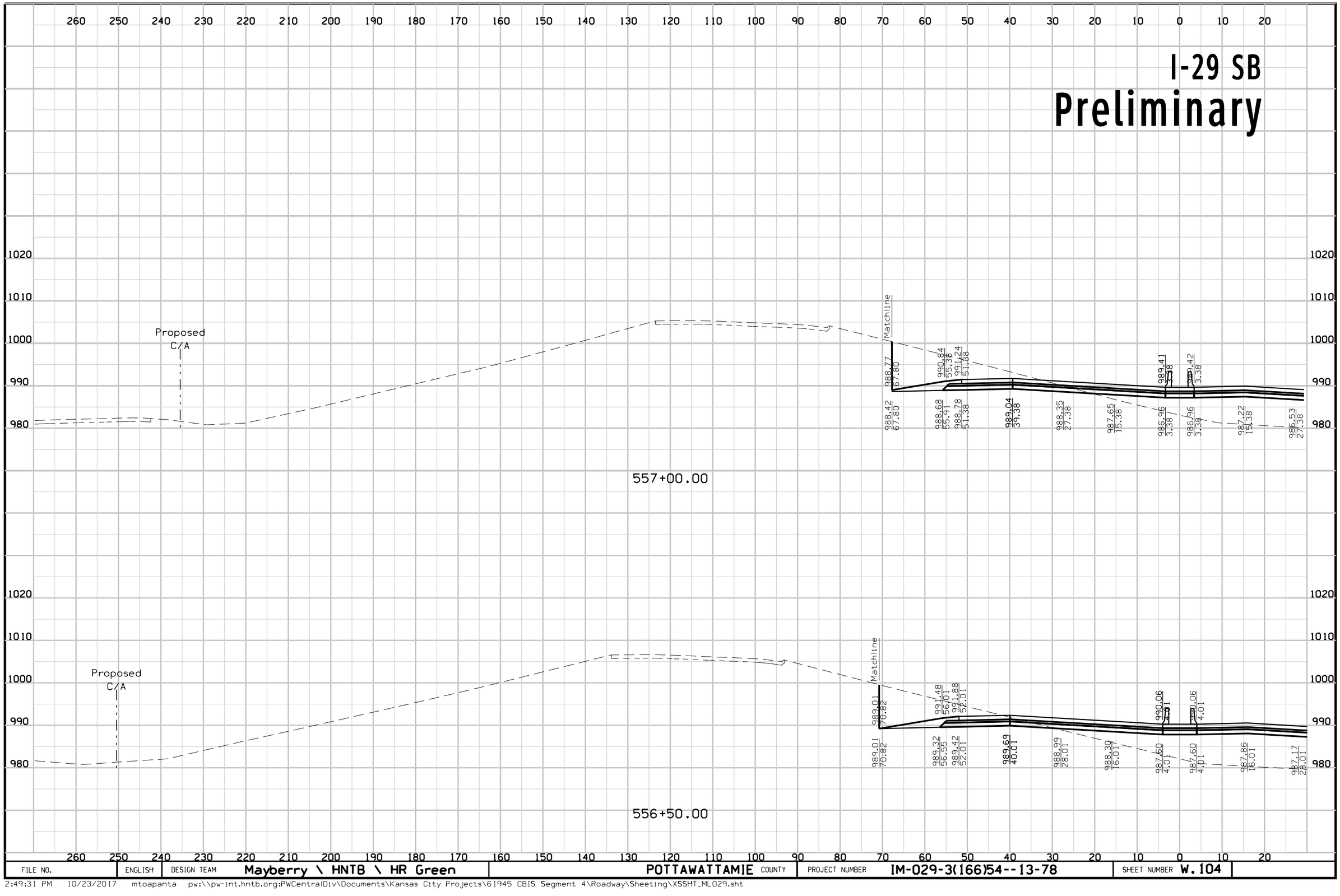
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER W.103

2:49:28 PM 10/23/2017 mtoapanta pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\XSSHT_ML029.sht

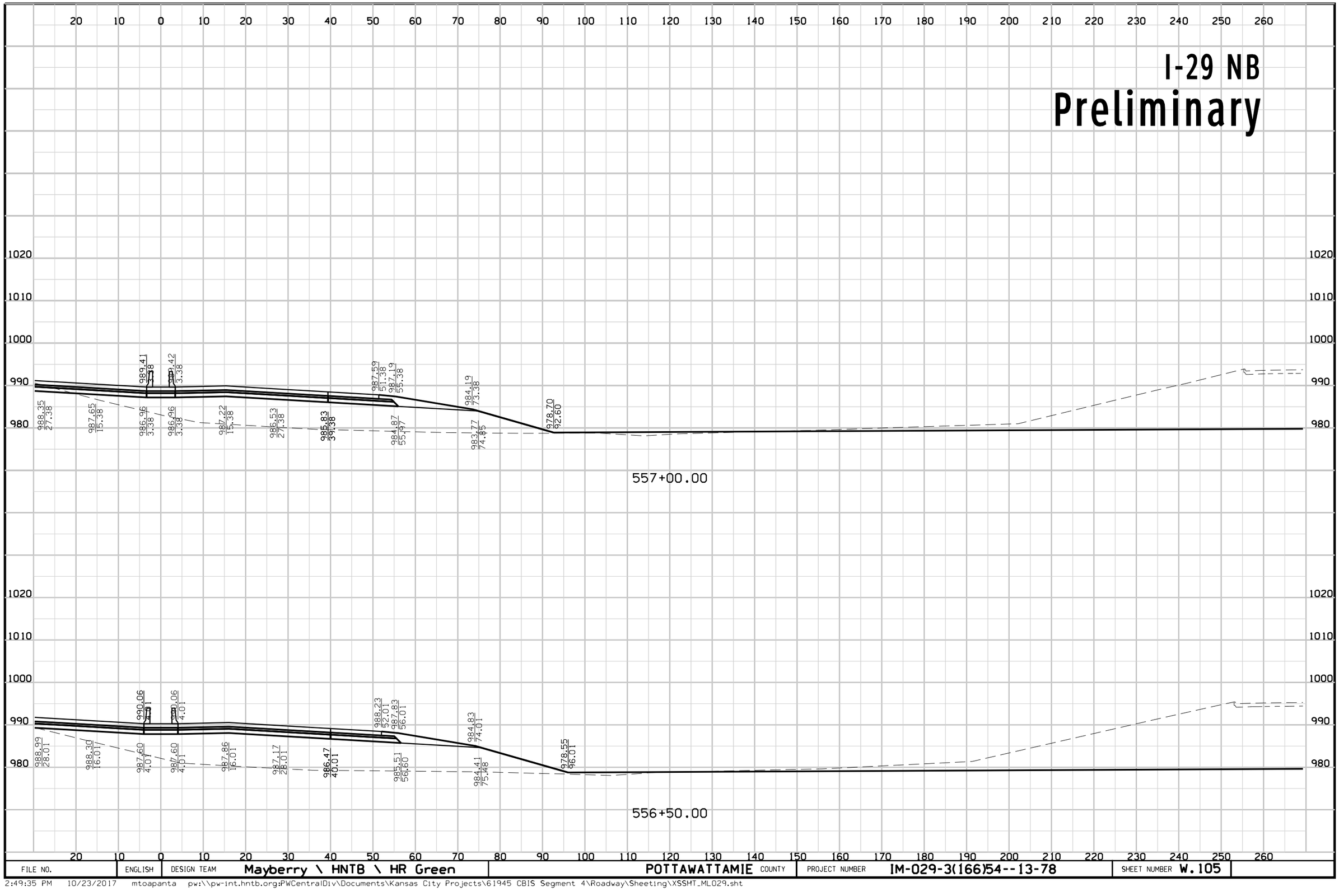
I-29 SB
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER W.104

2:49:31 PM 10/23/2017 mtoapanta pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\XSSHT_ML029.sht

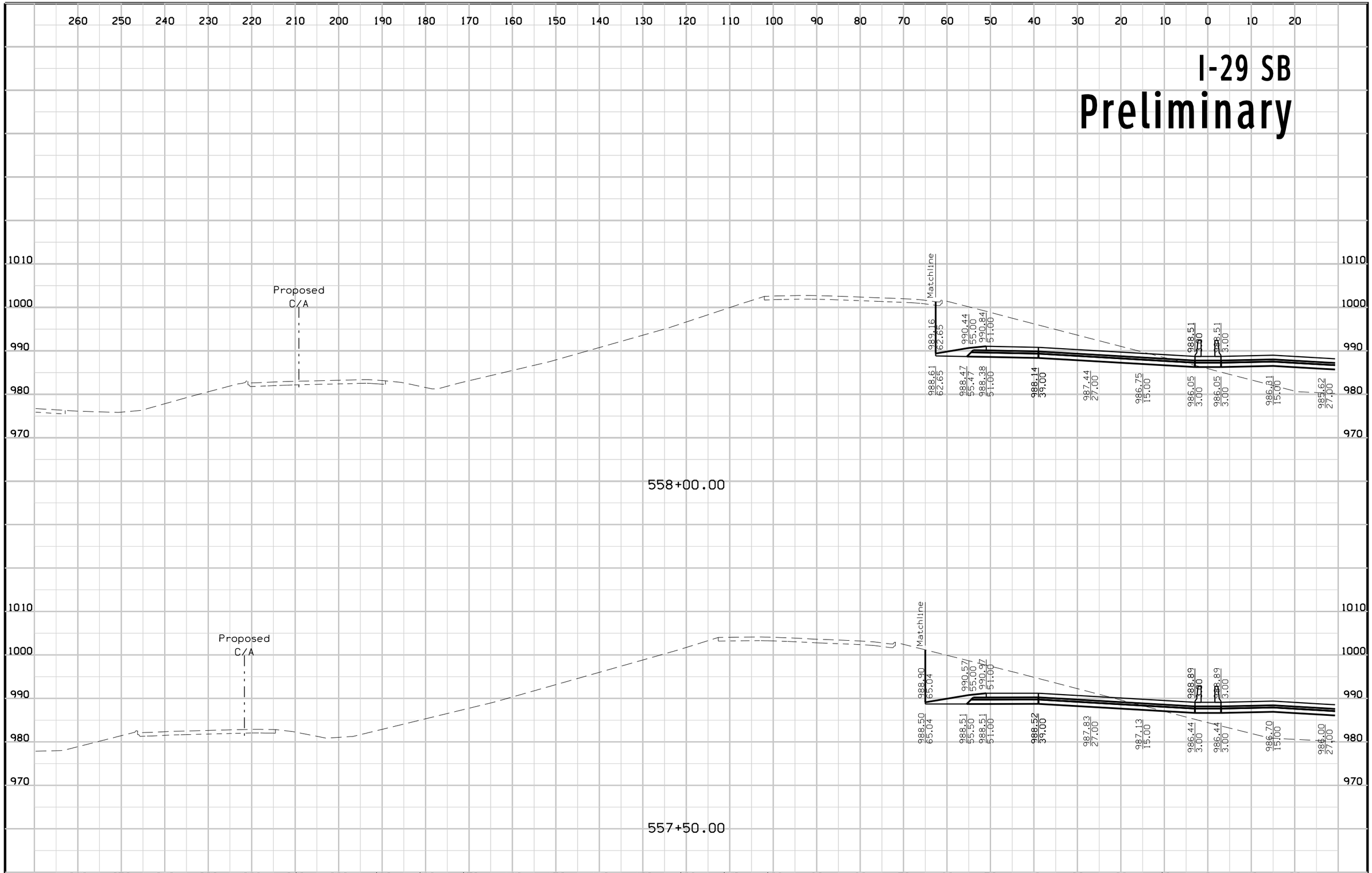
I-29 NB
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER W.105

2:49:35 PM 10/23/2017 mtoapanta pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\XSSHT_ML029.sht

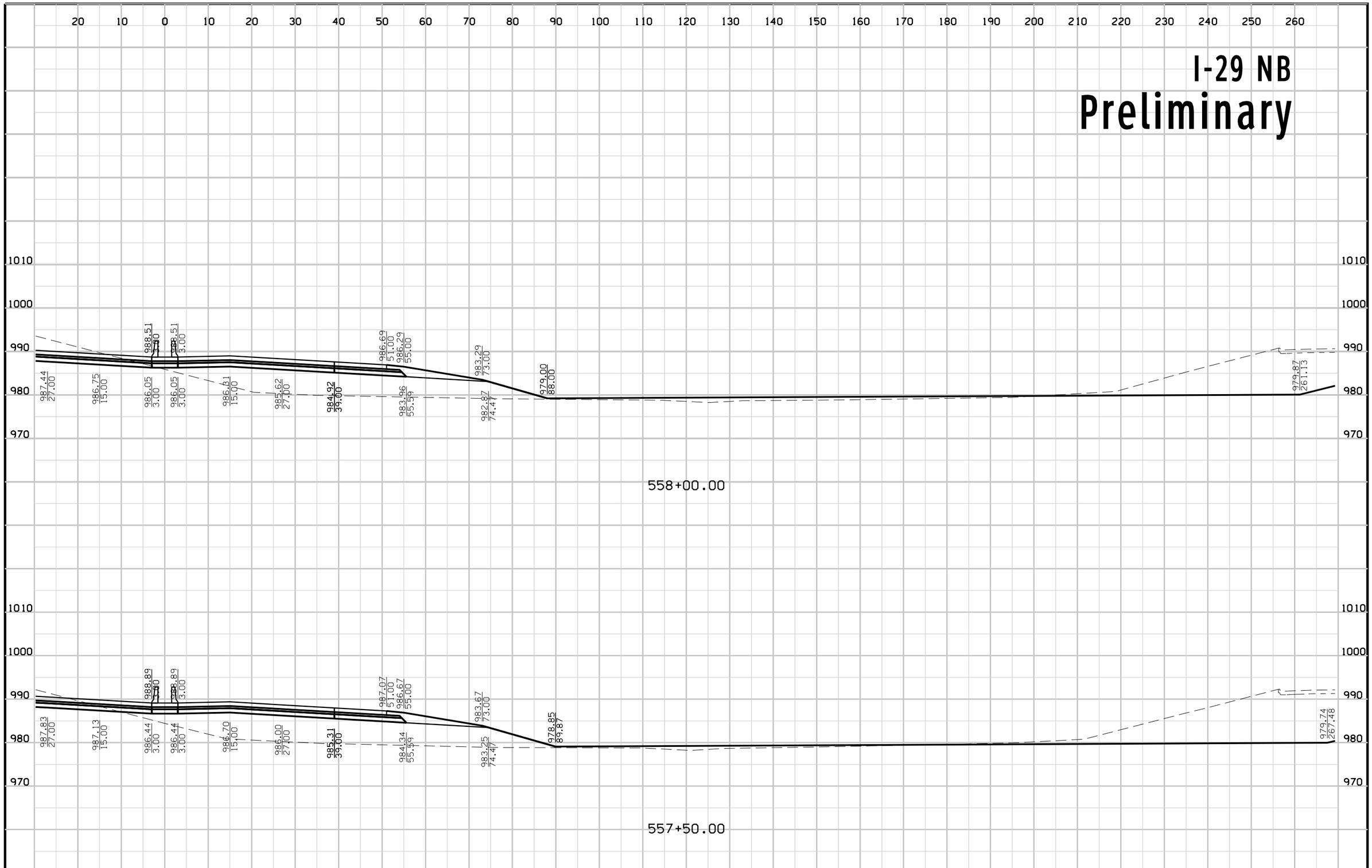
I-29 SB
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER W.106

2:49:38 PM 10/23/2017 mtoapanta pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\XSSHT_ML029.sht

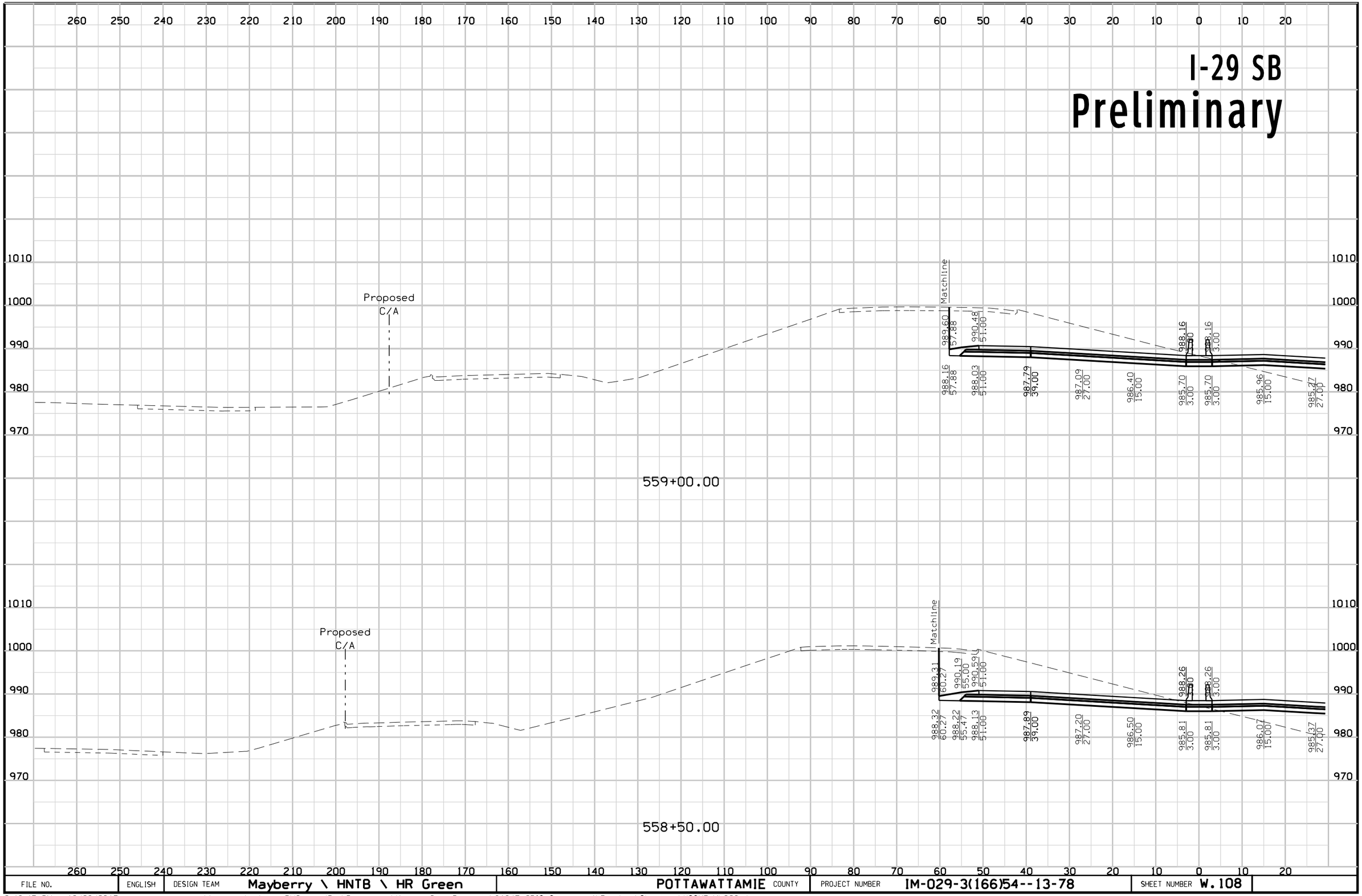
I-29 NB
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER W.107

2:49:42 PM 10/23/2017 mtoapanta pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\XSSHT_ML029.sht

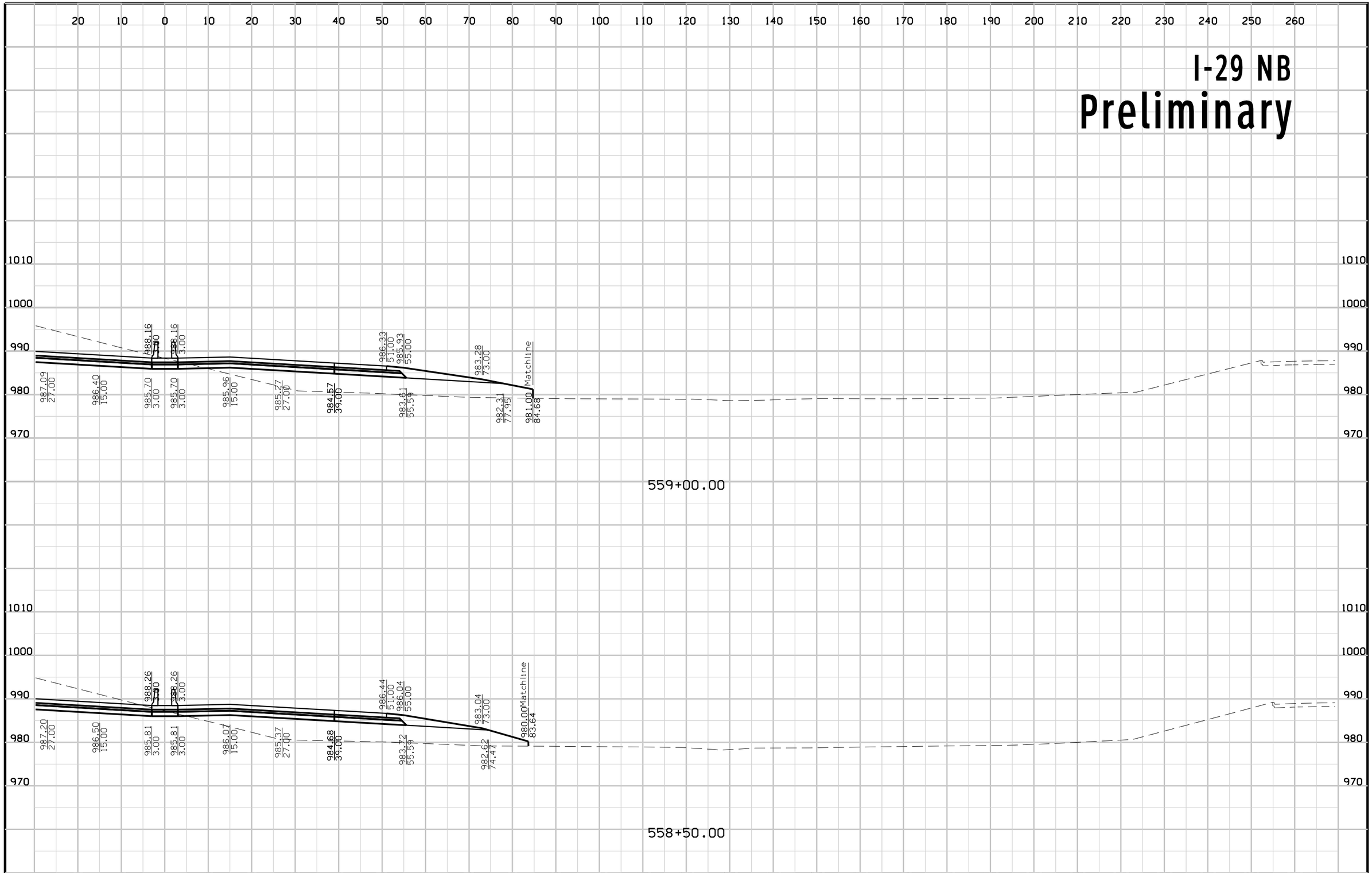
I-29 SB
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER W.108

2:49:45 PM 10/23/2017 mtoapanta pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\XSSHT_ML029.sht

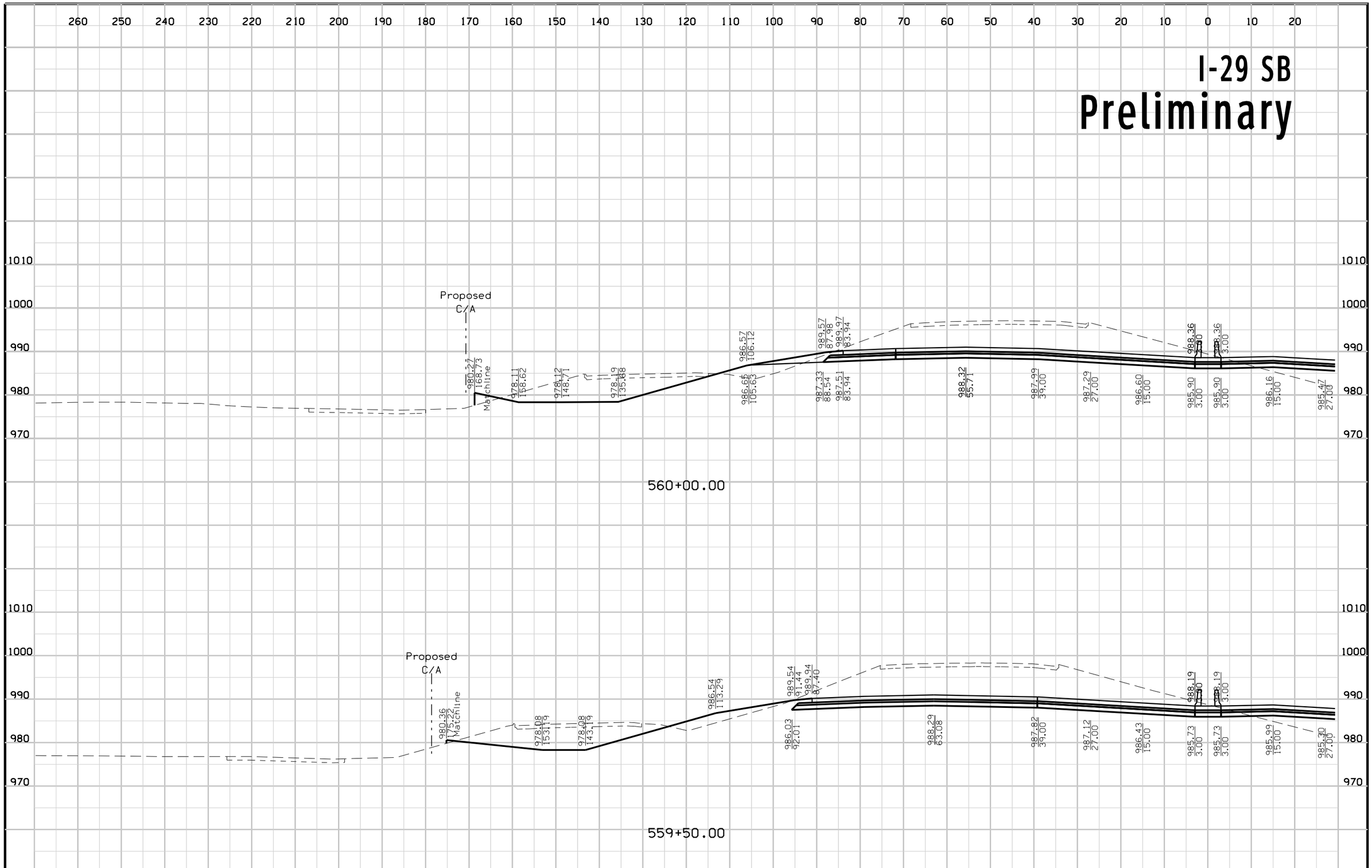
I-29 NB
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER W.109

2:49:48 PM 10/23/2017 mtoapanta pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\XSSHT_ML029.sht

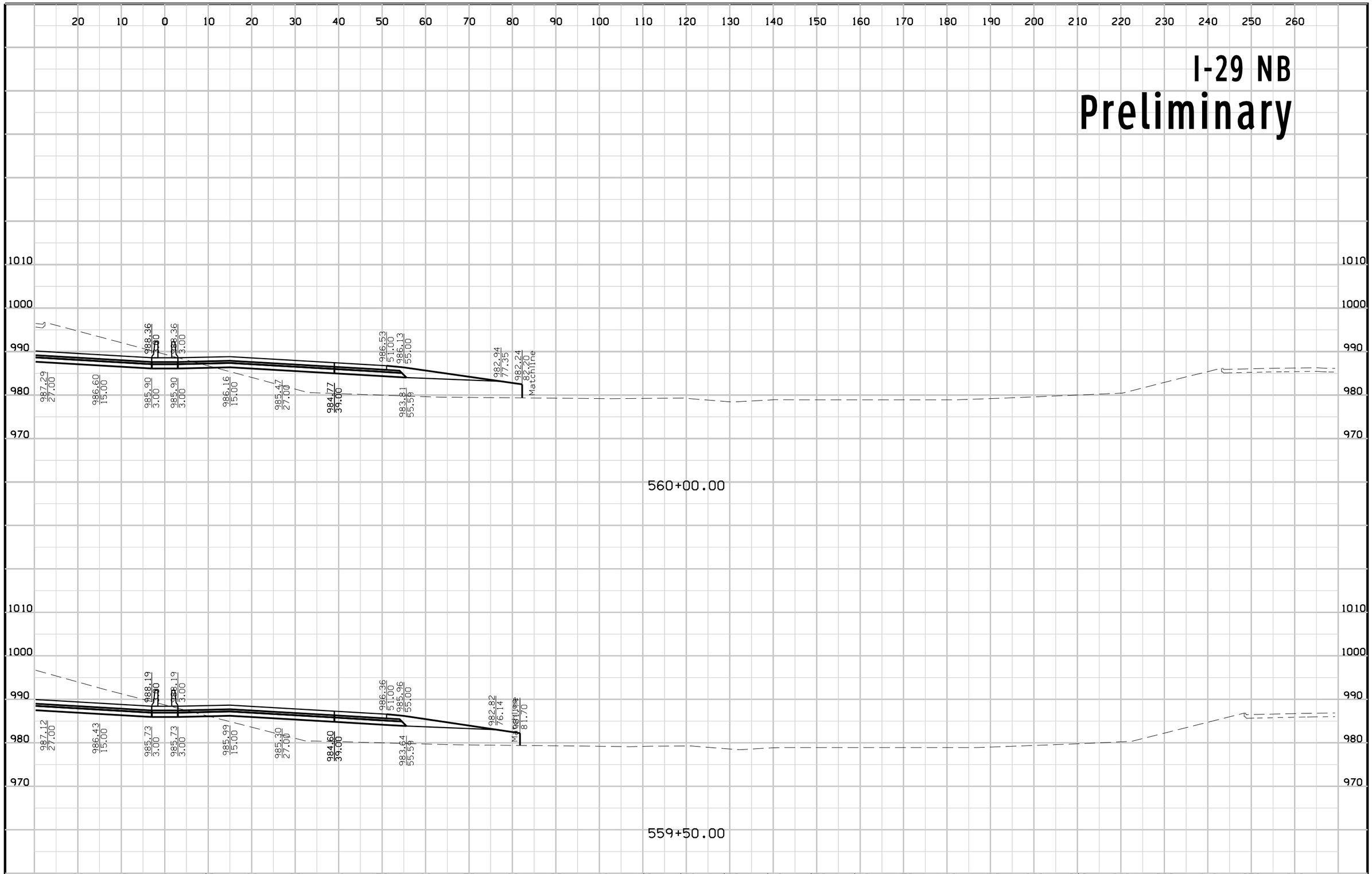
I-29 SB
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER W.110

2:49:52 PM 10/23/2017 mtoapanta pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\XSSHT_ML029.sht

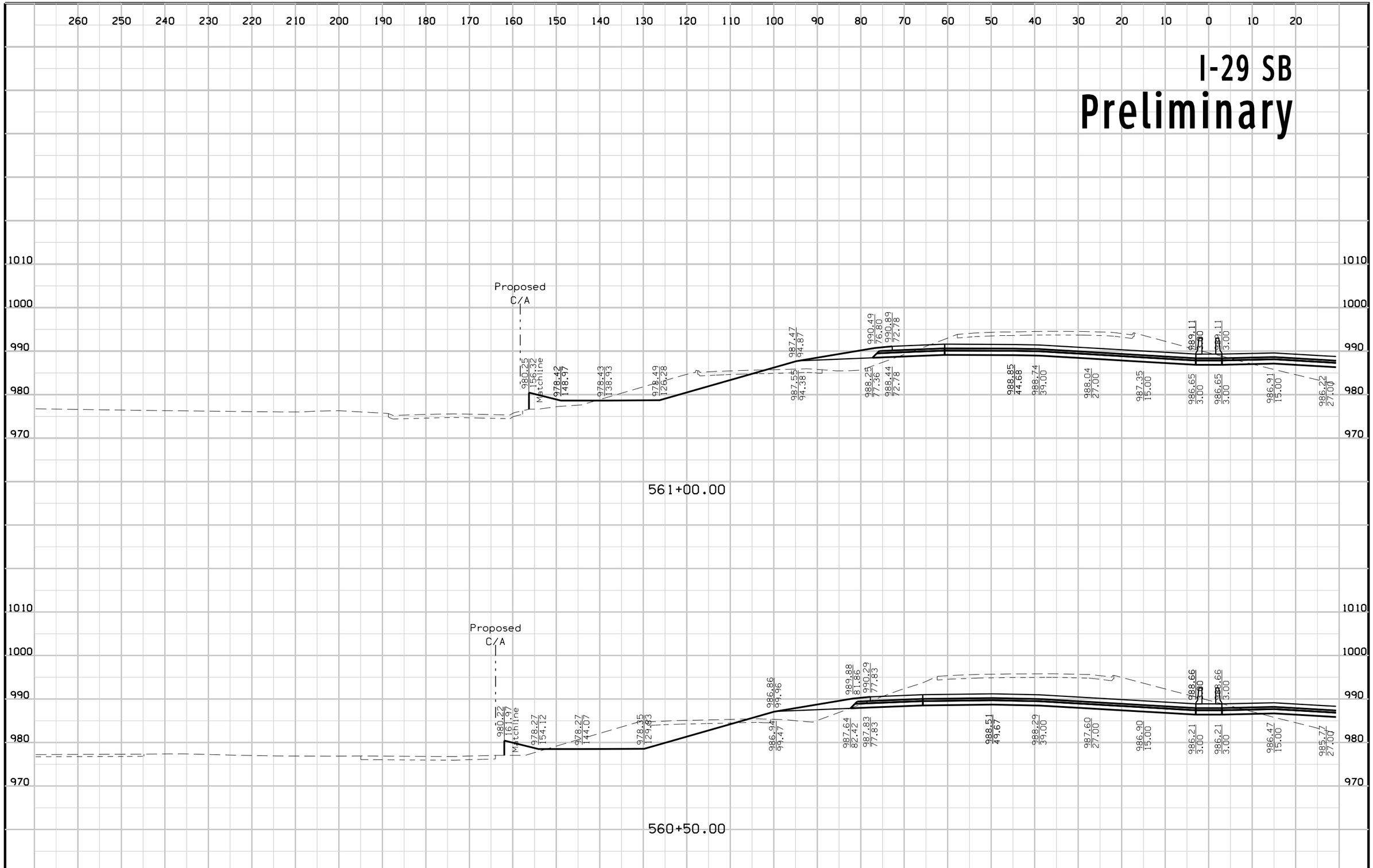
I-29 NB
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER W.111

2:49:56 PM 10/23/2017 mtoapanta pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\XSSHT_ML029.sht

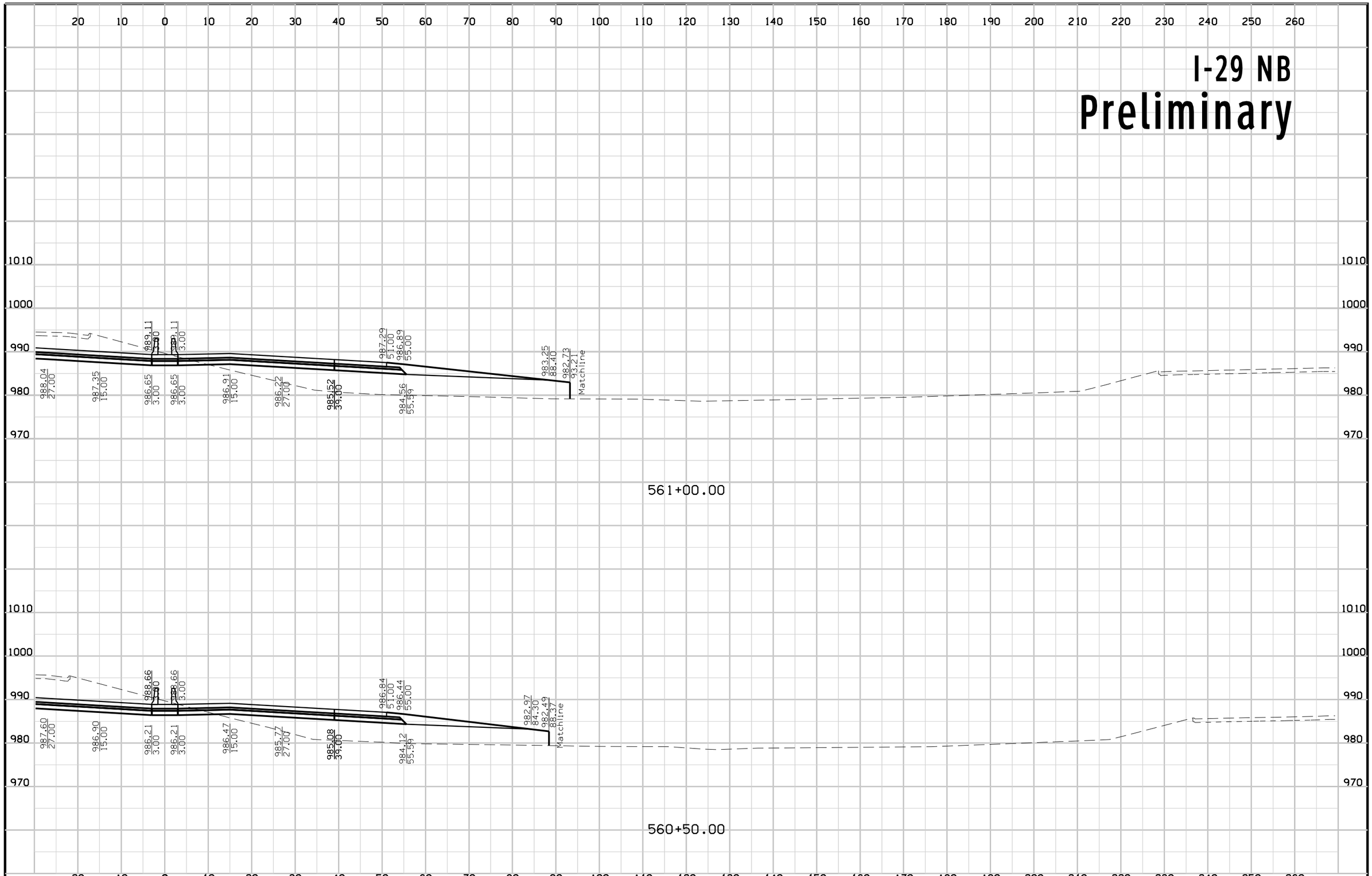
I-29 SB
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER W.112

2:49:59 PM 10/23/2017 mtoapanta pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\XSSHT_ML029.sht

I-29 NB
Preliminary

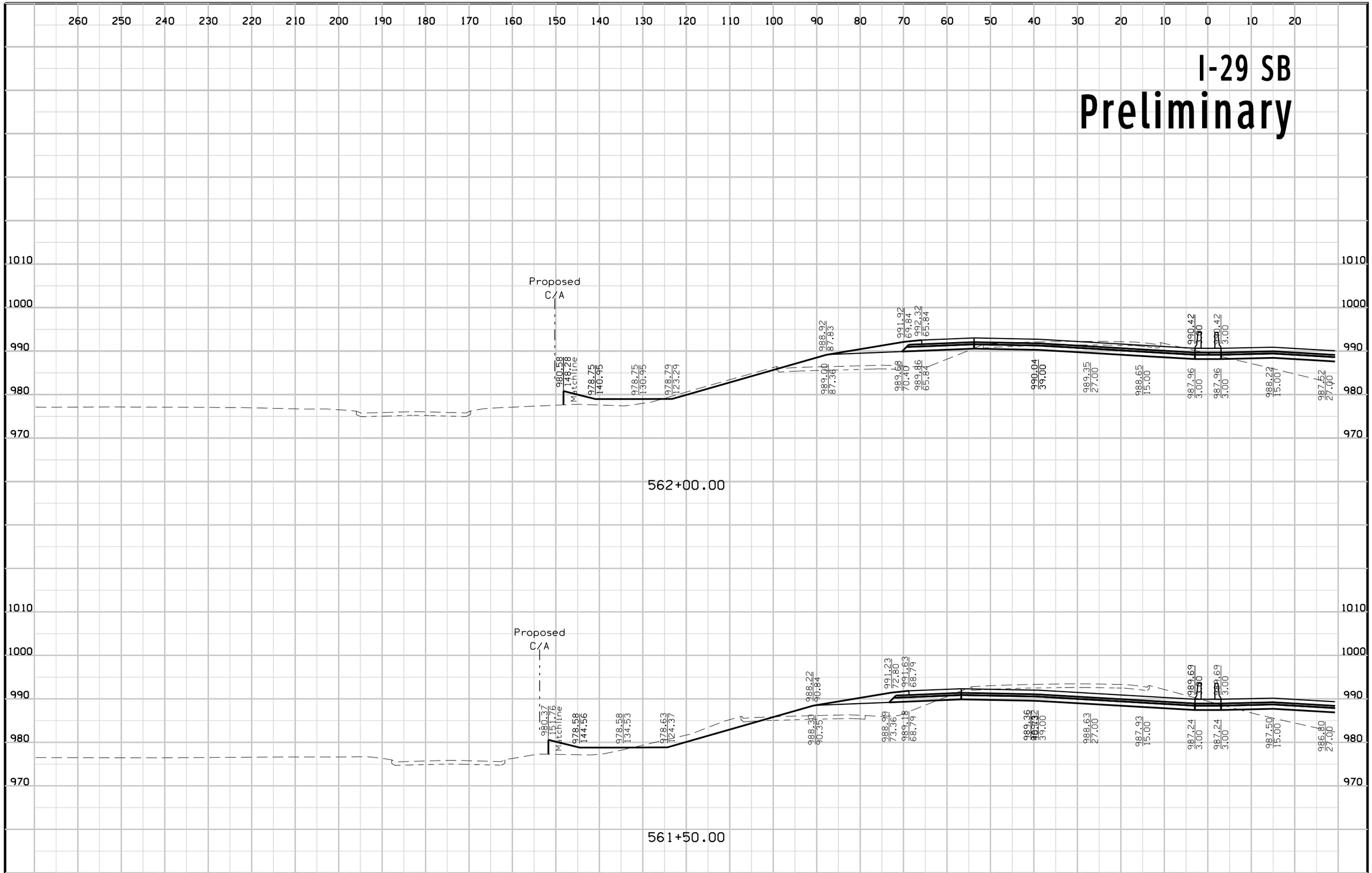


FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER W.113

2:50:03 PM 10/23/2017 mtoapanta pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\XSSHT_ML029.sht

I-29 SB

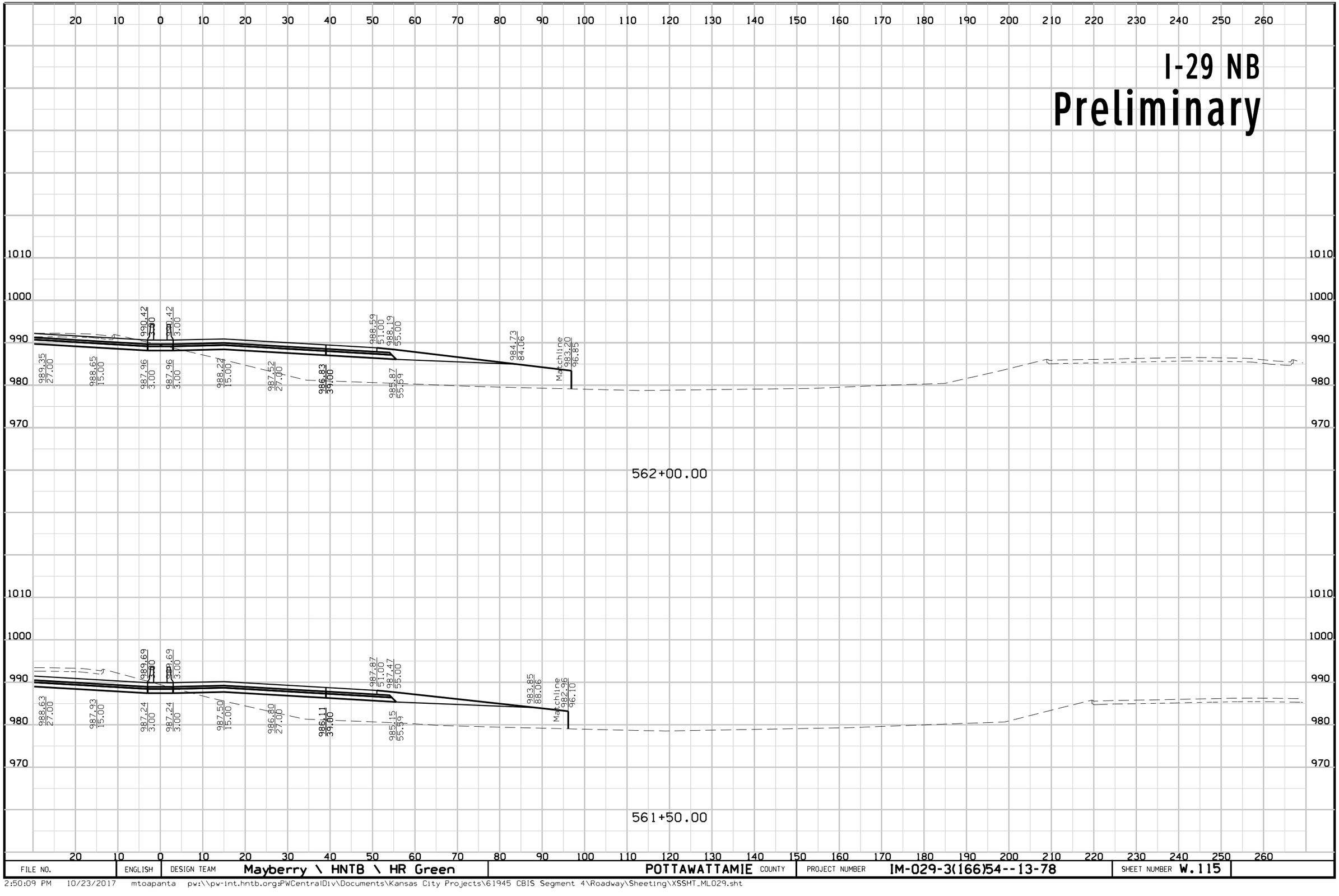
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER W.114

2:50:06 PM 10/23/2017 mtoapanta pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\XSSHT_ML029.sht

I-29 NB
Preliminary

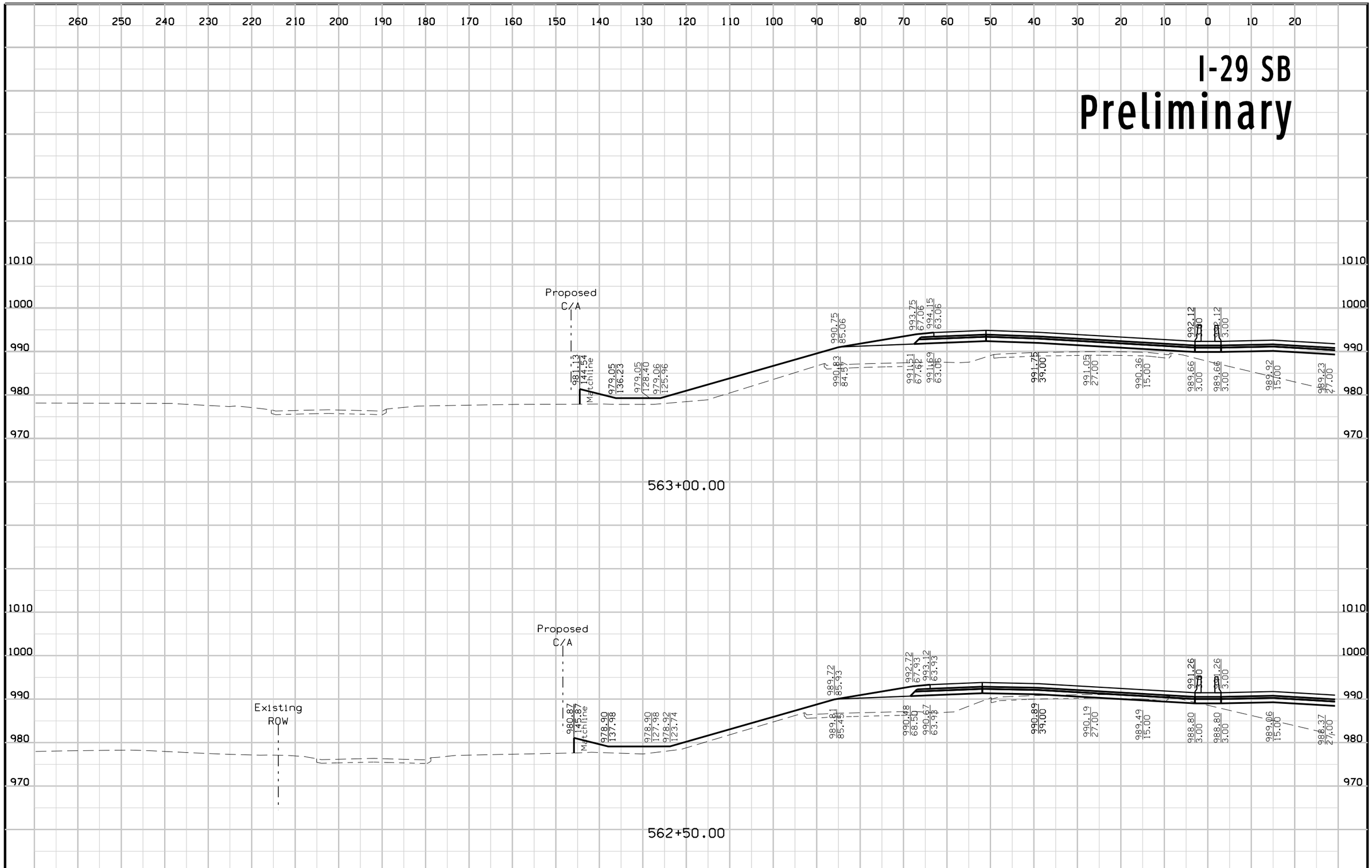


FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER W.115

2:50:09 PM 10/23/2017 mtoapanta pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\XSSHT_ML029.sht

I-29 SB

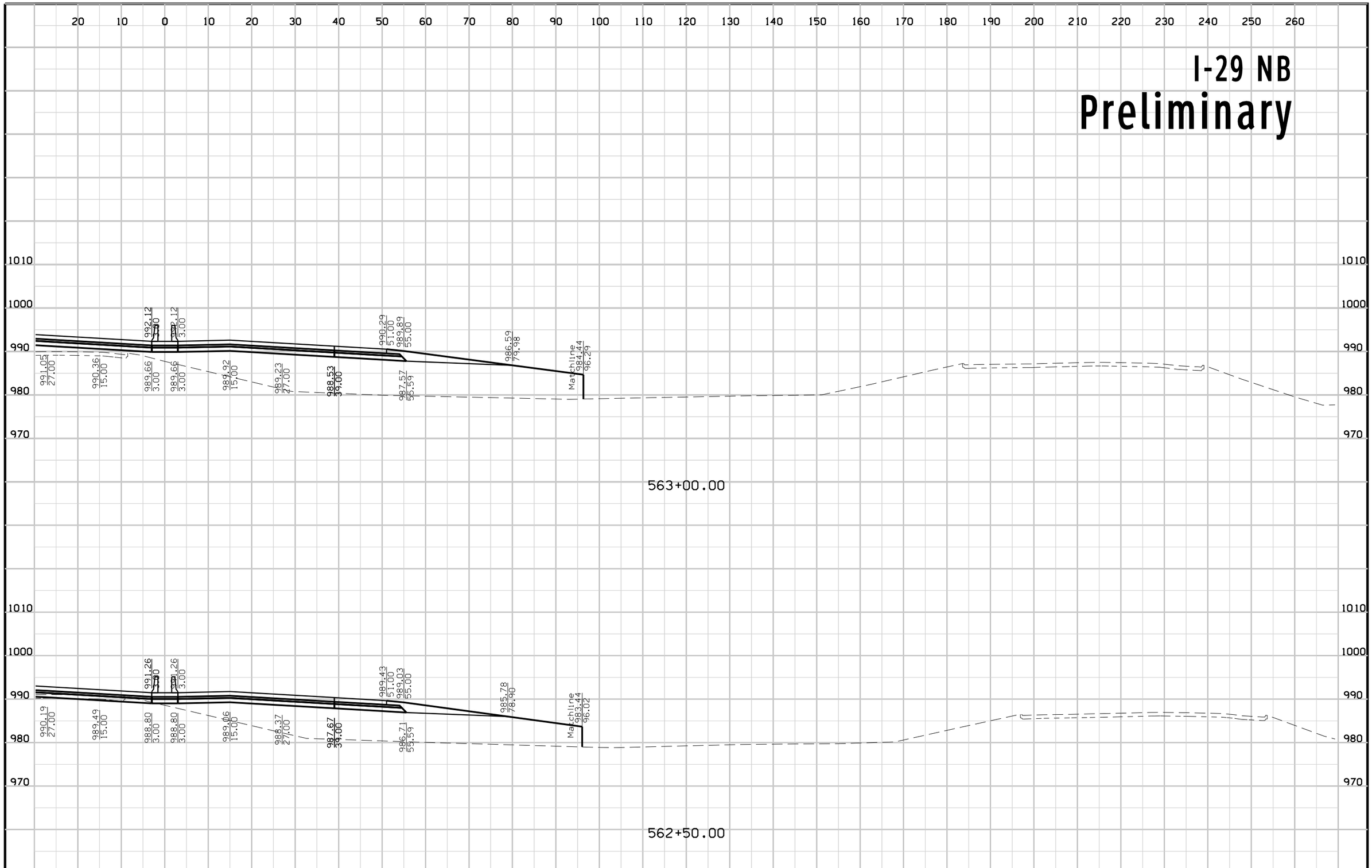
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER W.116

2:50:12 PM 10/23/2017 mtoapanta pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\XSSHT_ML029.sht

I-29 NB
Preliminary

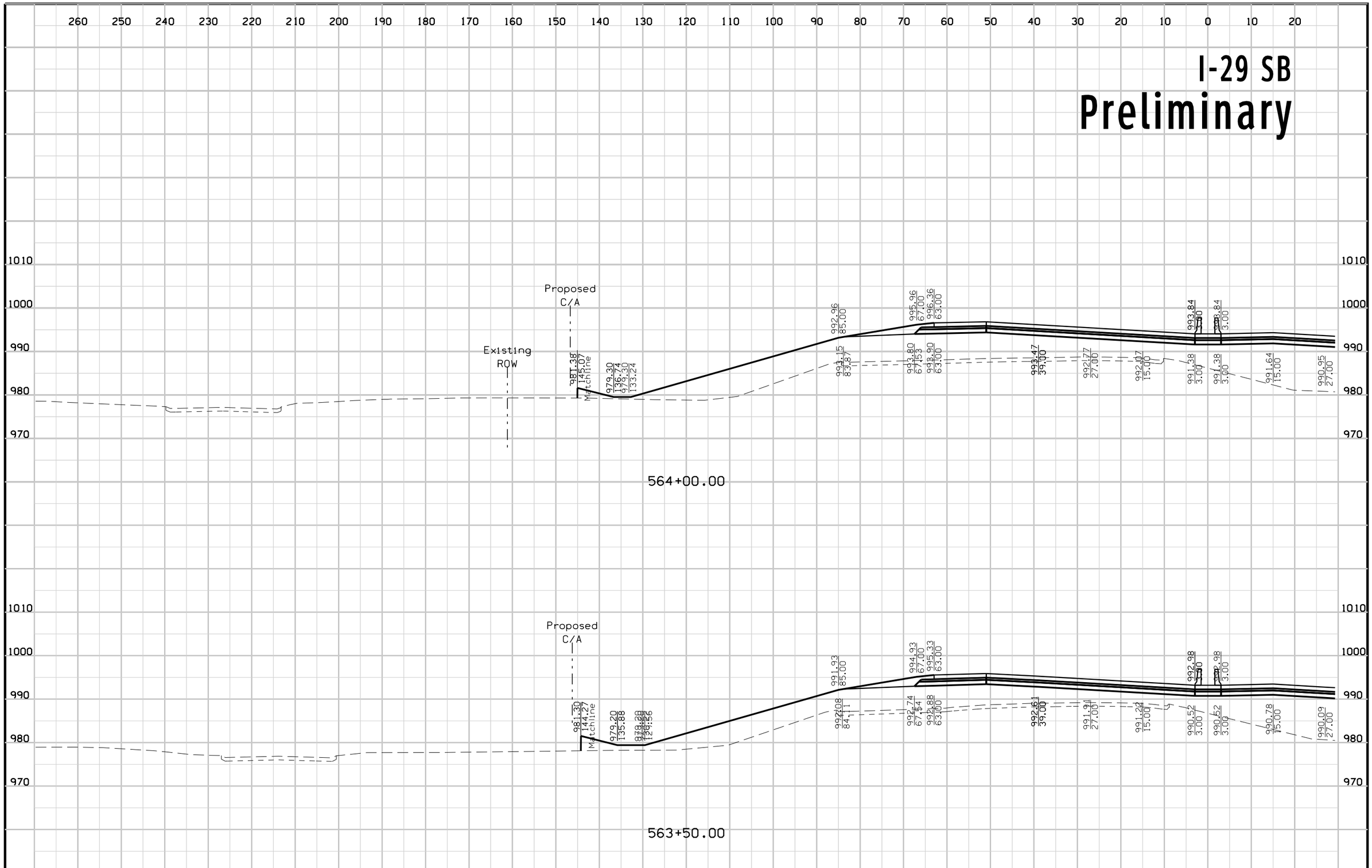


FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER W.117

2:50:15 PM 10/23/2017 mtoapanta pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\XSSHT_ML029.sht

I-29 SB

Preliminary



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER W.118

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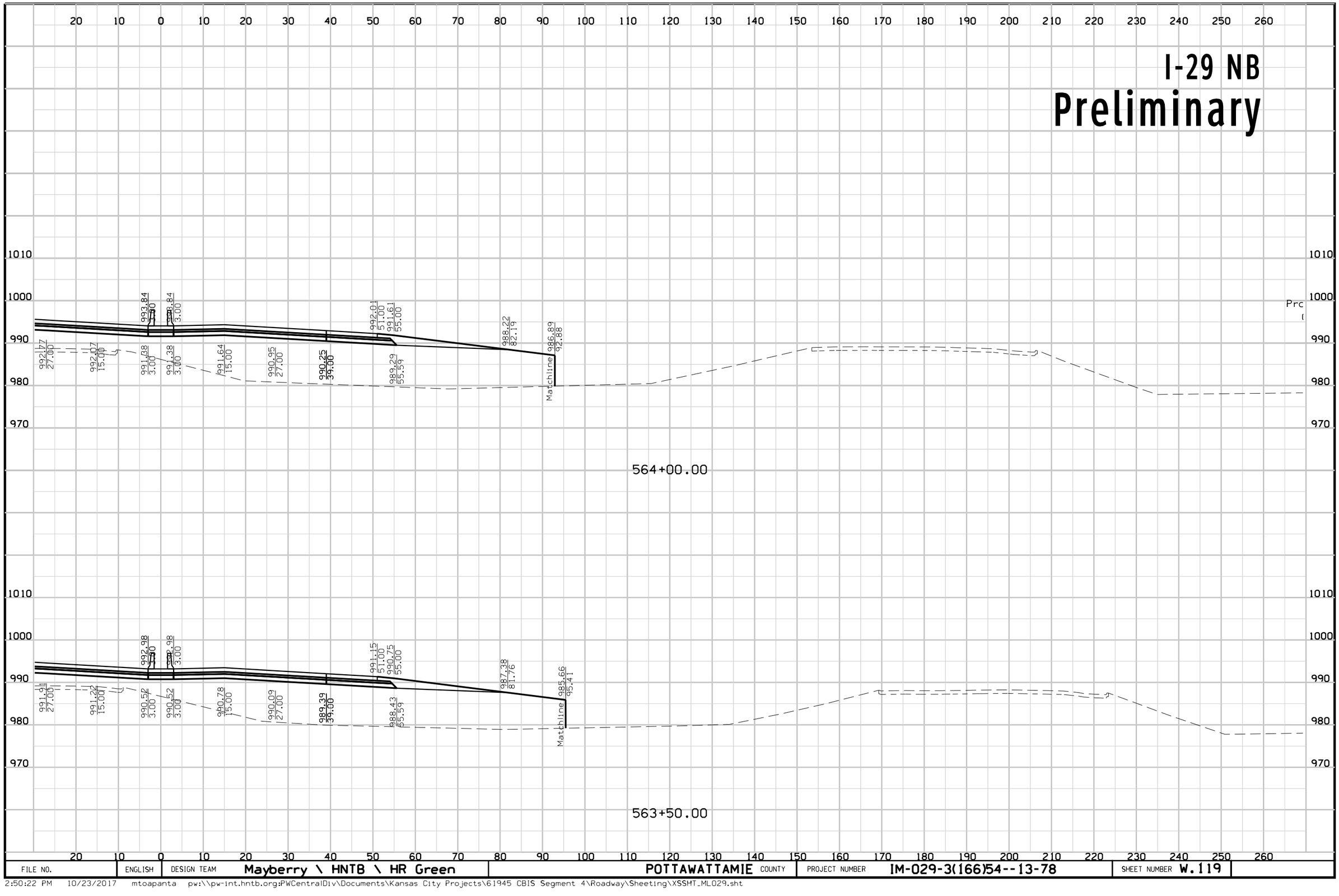
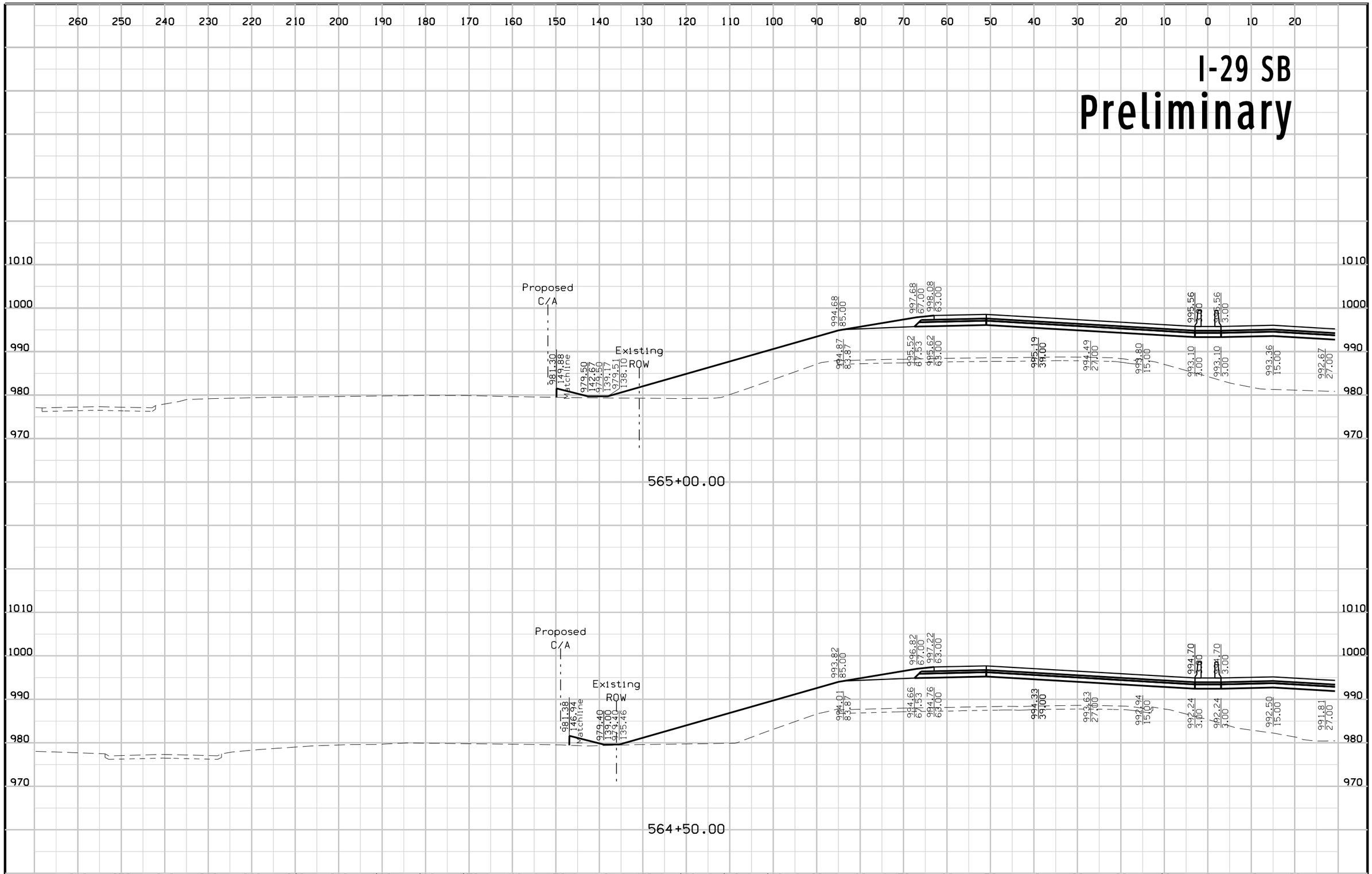
I-29 NB
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER W.119

2:50:22 PM 10/23/2017 mtoapanta pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\XSSHT_ML029.sht

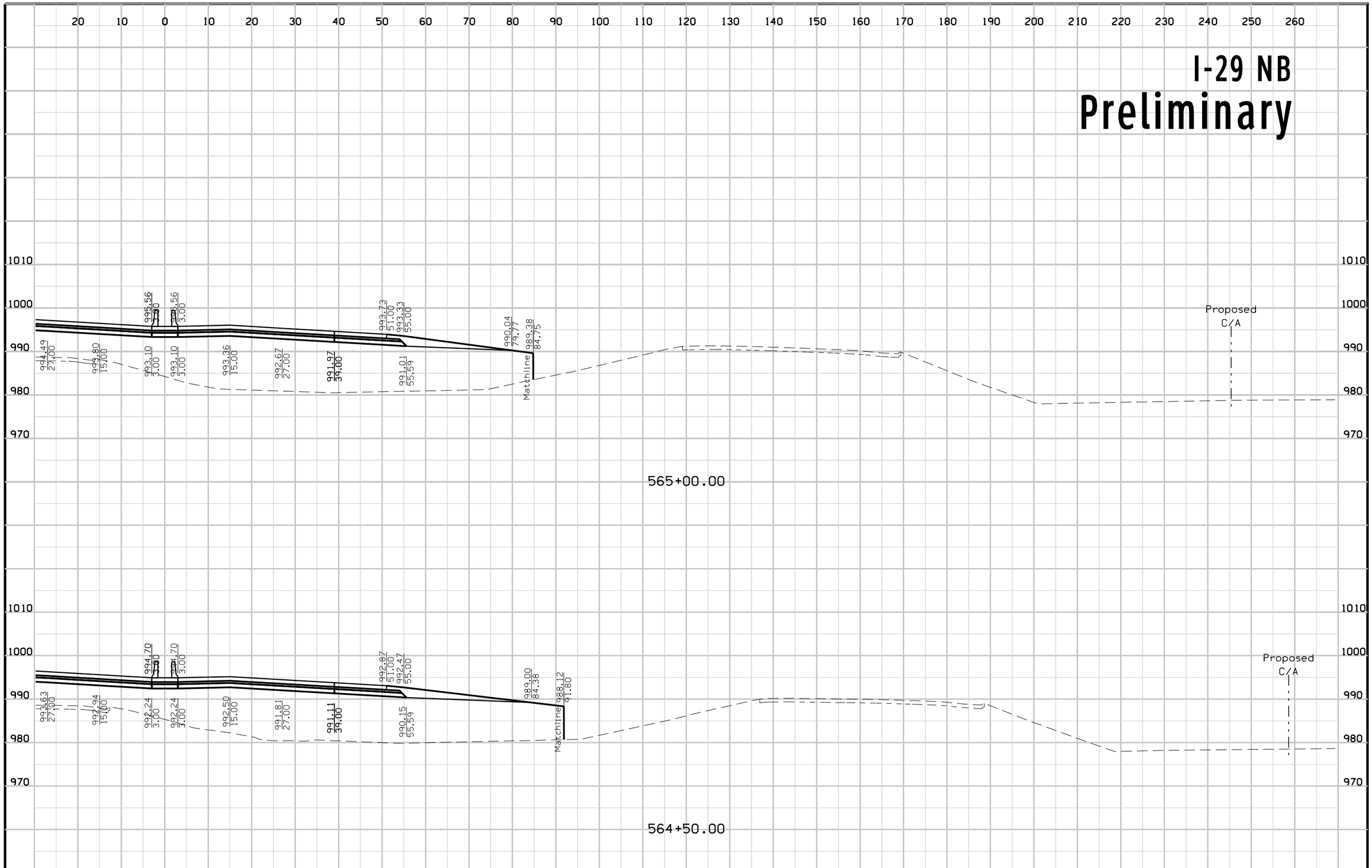
I-29 SB
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER W.120

2:50:25 PM 10/23/2017 mtoapanta pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\XSSHT_ML029.sht

I-29 NB
Preliminary

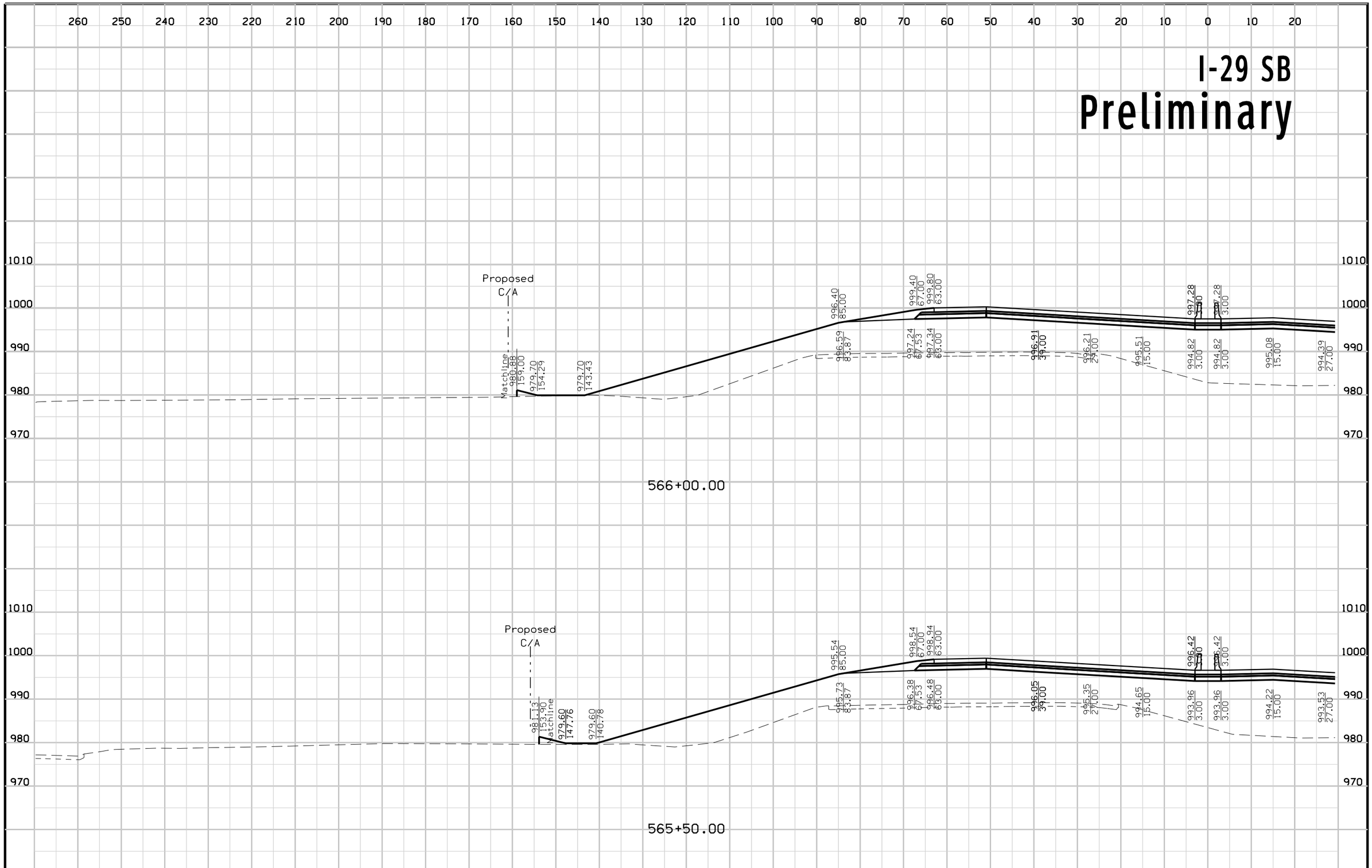


FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER W.121

2:50:28 PM 10/23/2017 mtoapanta pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\XSSHT_ML029.sht

I-29 SB

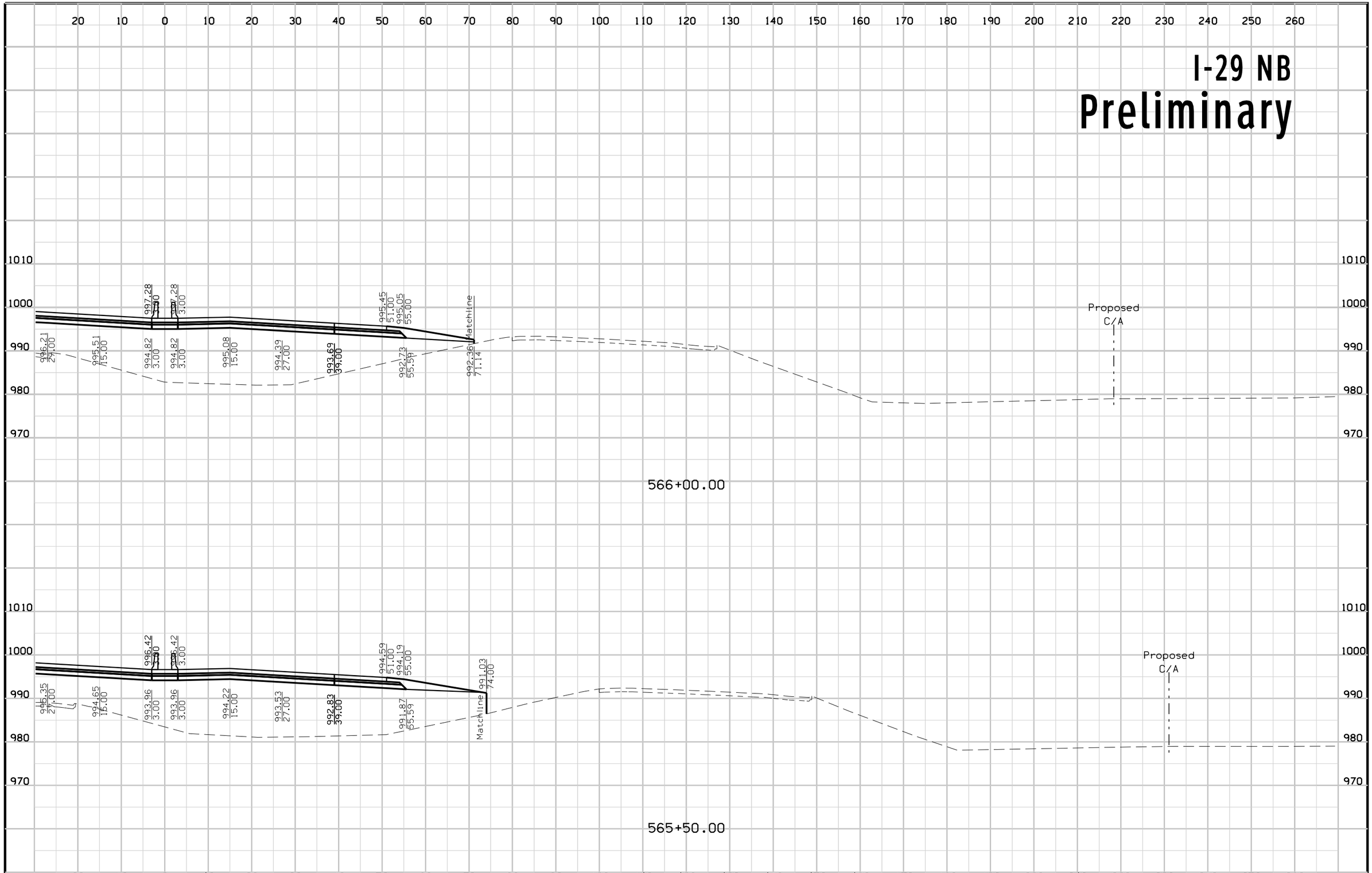
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER W.122

2:50:32 PM 10/23/2017 mtoapanta pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\XSSHT_ML029.sht

I-29 NB
Preliminary

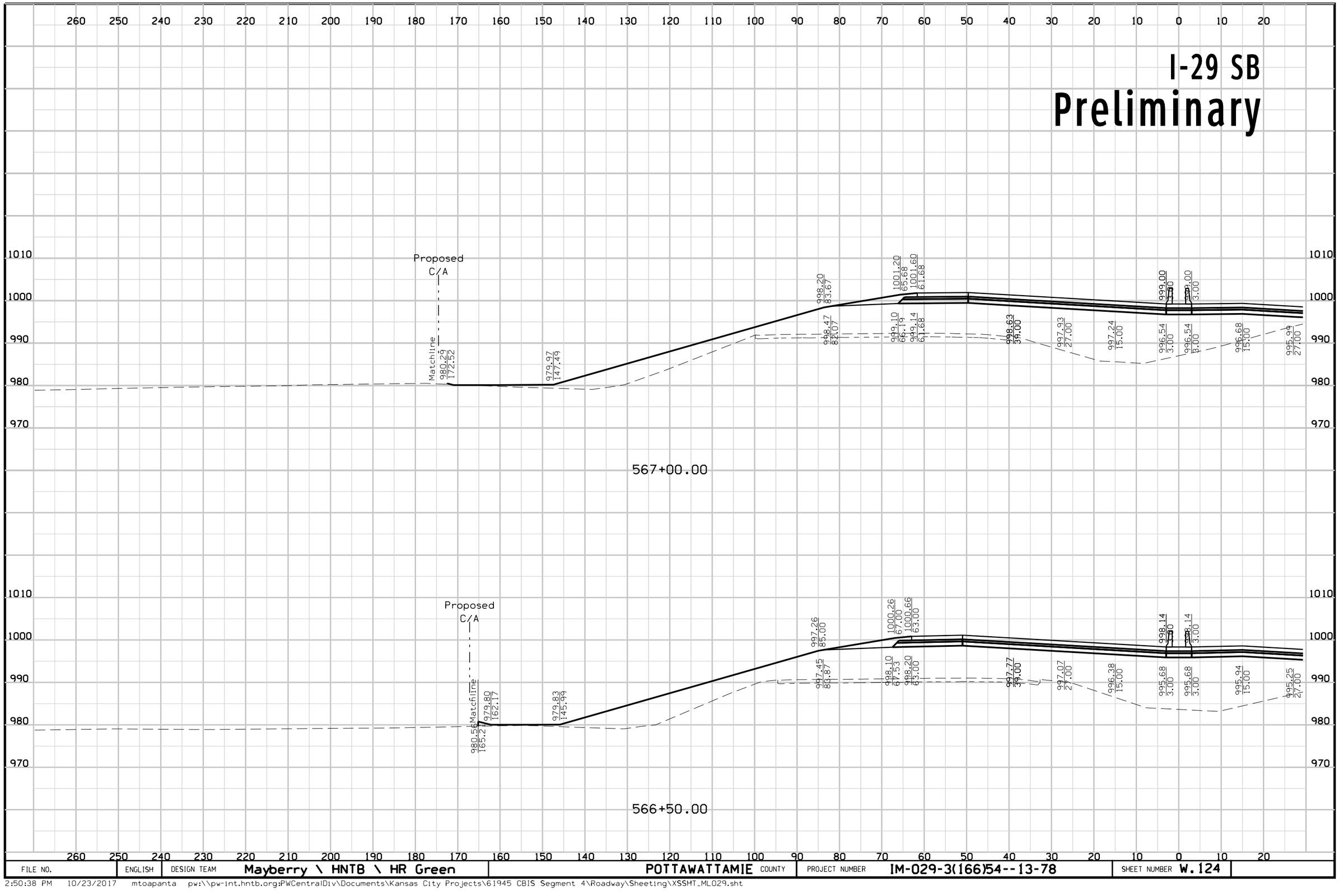


FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER W.123

2:50:35 PM 10/23/2017 mtoapanta pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\XSSHT_ML029.sht

I-29 SB

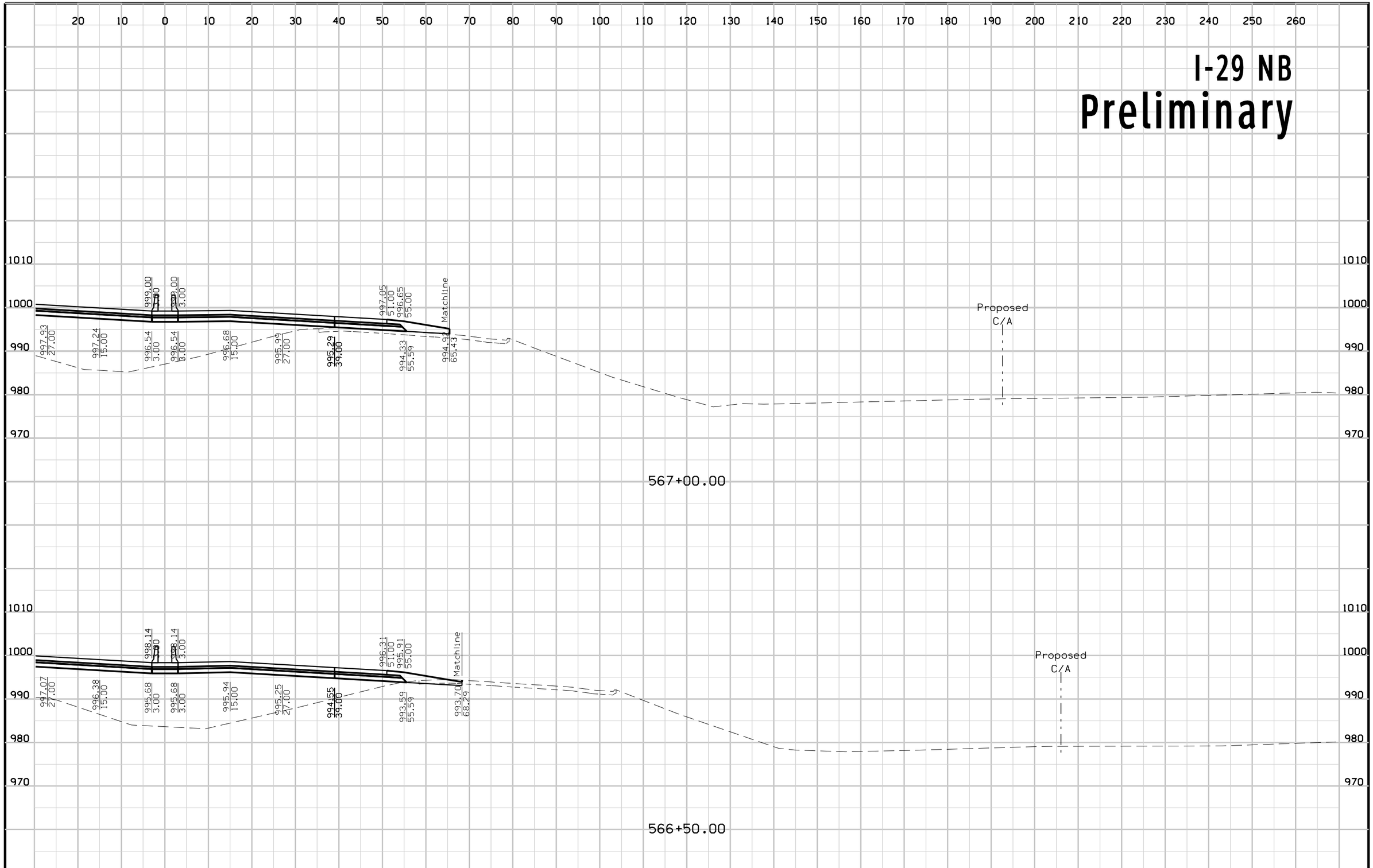
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER W.124

2:50:38 PM 10/23/2017 mtoapanta pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\XSSHT_ML029.sht

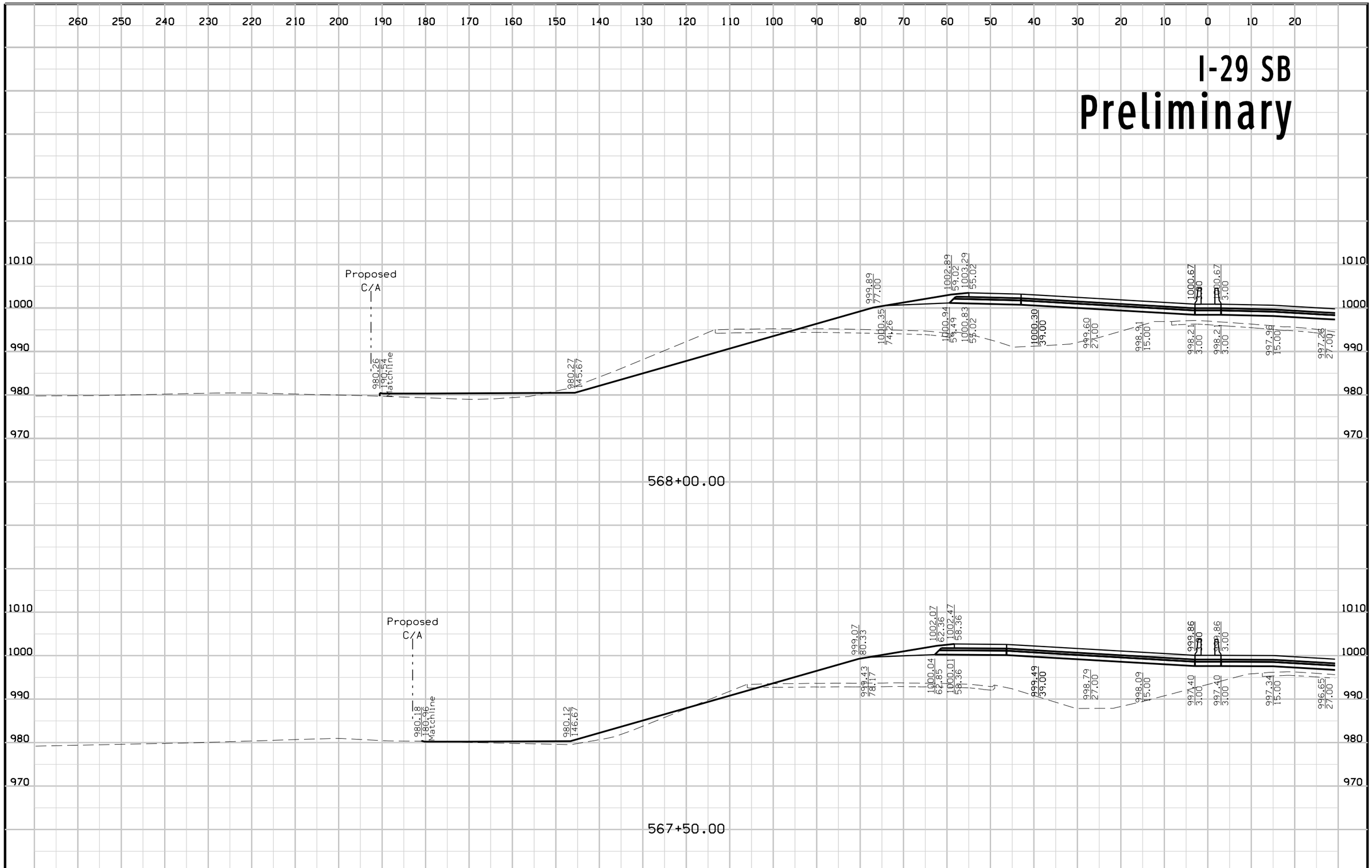
I-29 NB
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER W.125

2:50:41 PM 10/23/2017 mtoapanta pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\XSSHT_ML029.sht

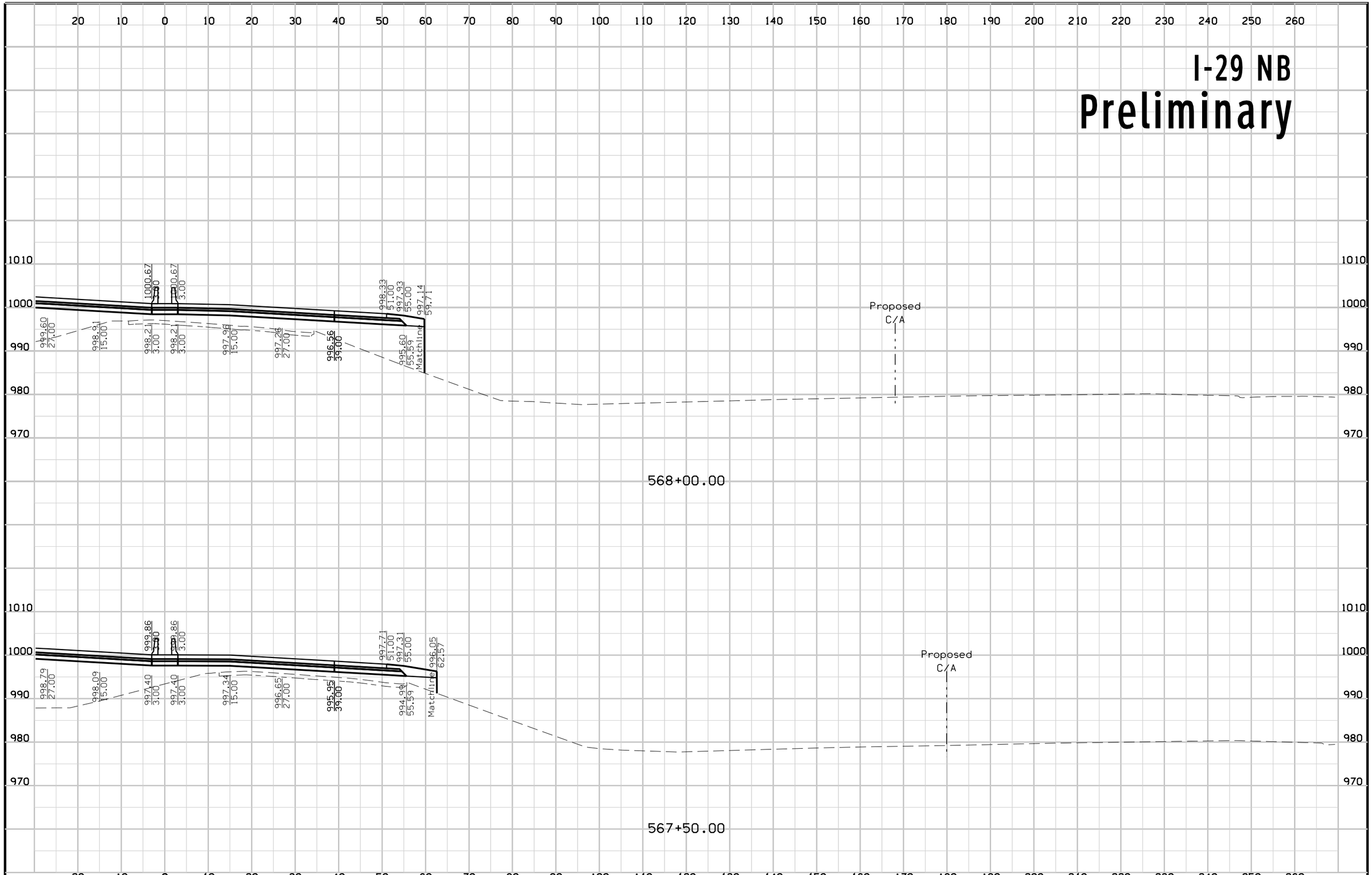
I-29 SB
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER W.126

2:50:44 PM 10/23/2017 mtoapanta pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\XSSHT_ML029.sht

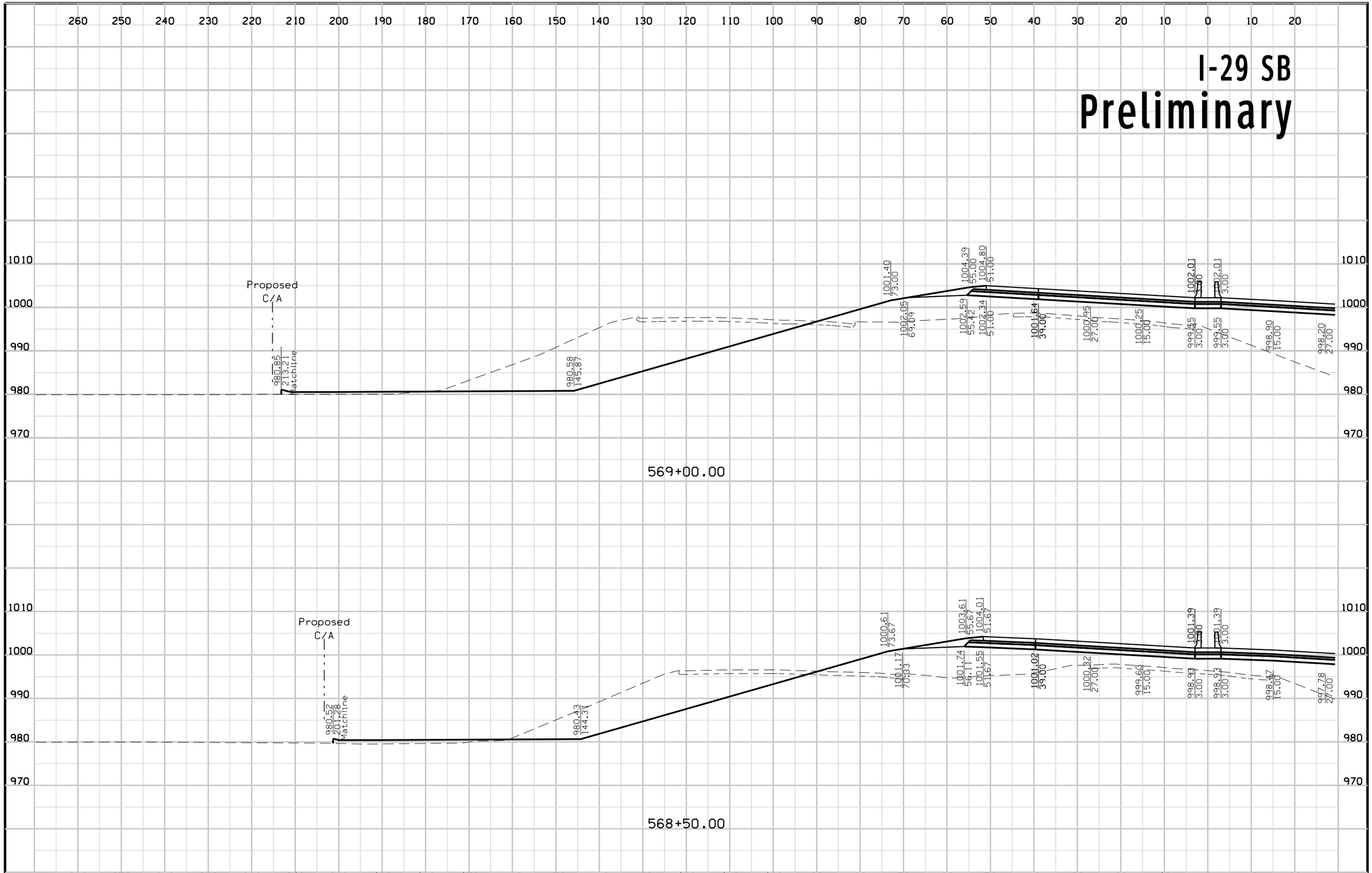
I-29 NB
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM					
		Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER	W.127

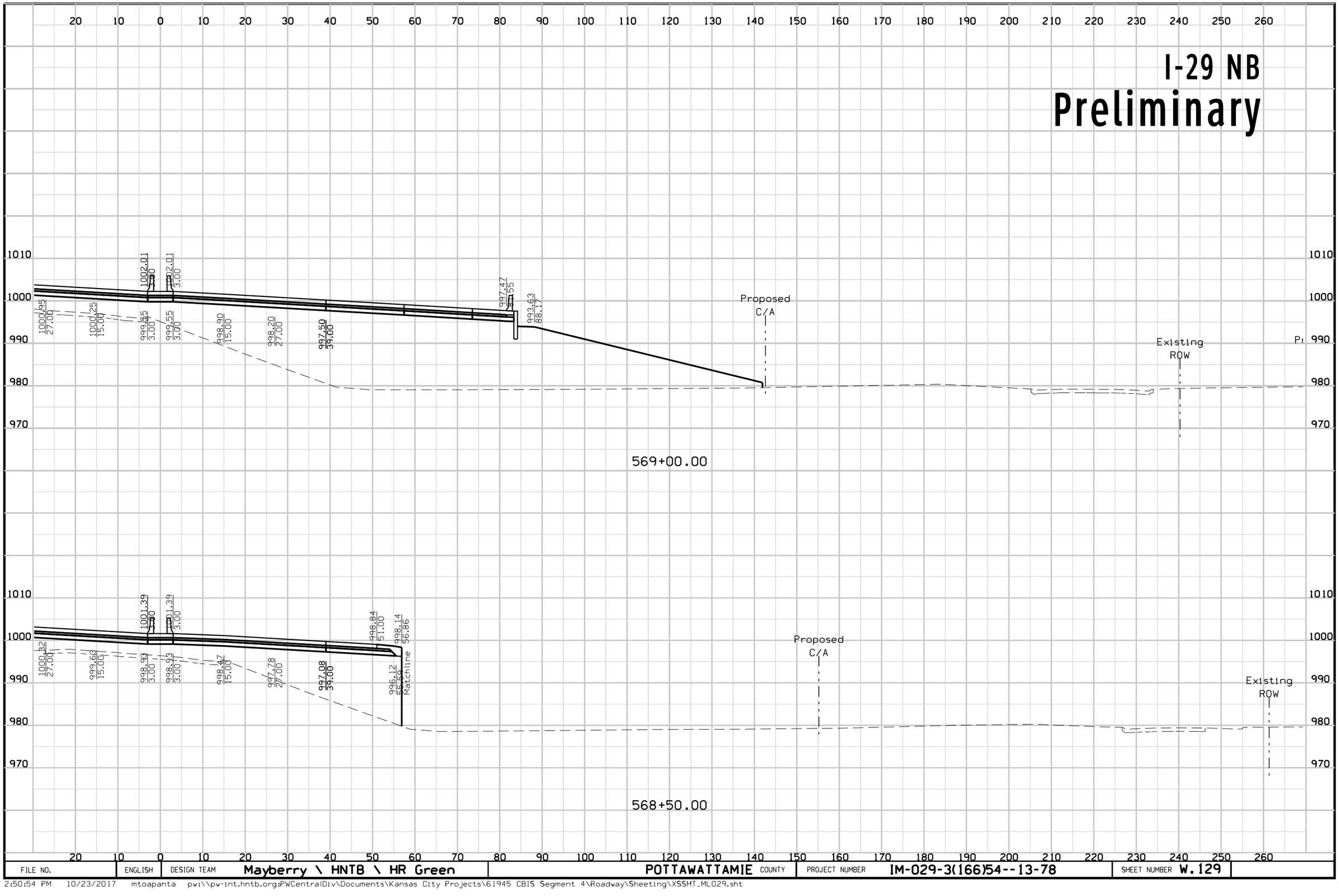
2:50:48 PM 10/23/2017 mtoapanta pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\XSSHT_ML029.sht

I-29 SB
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER W.128

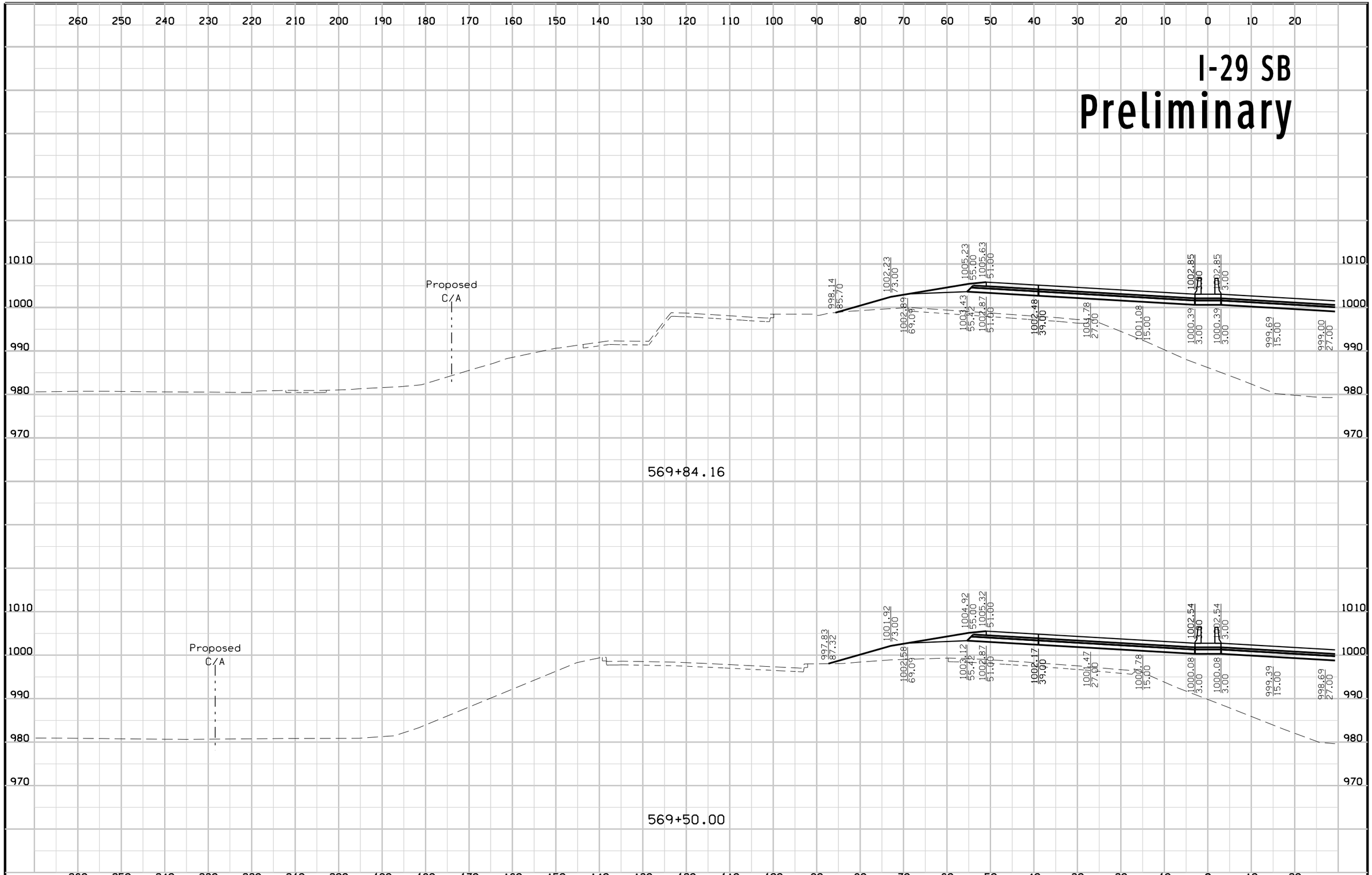
I-29 NB
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER W.129

2:50:54 PM 10/23/2017 mtoapanta pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\XSSHT_ML029.sht

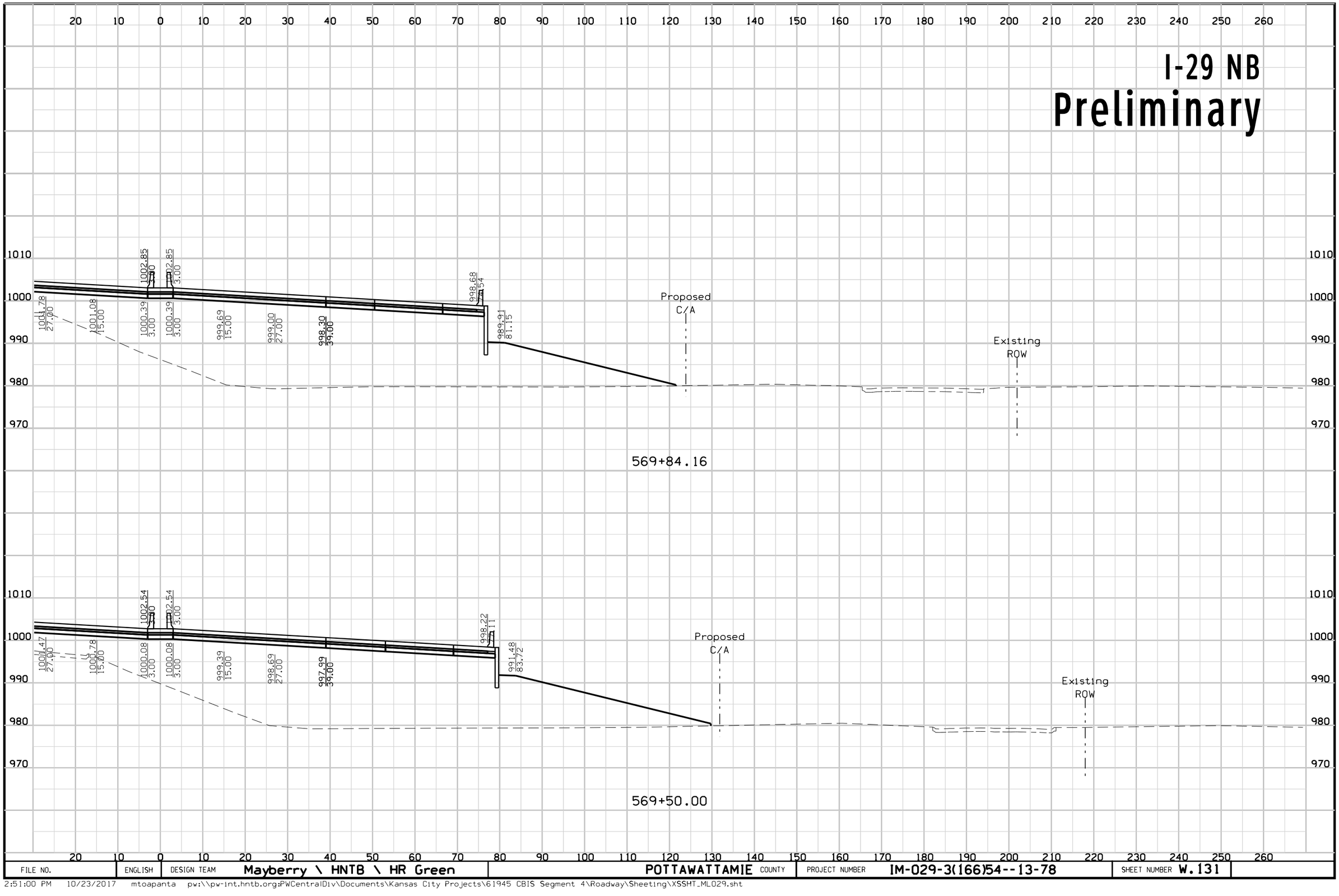
I-29 SB
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER W.130

2:50:57 PM 10/23/2017 mtoapanta pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\XSSHT_ML029.sht

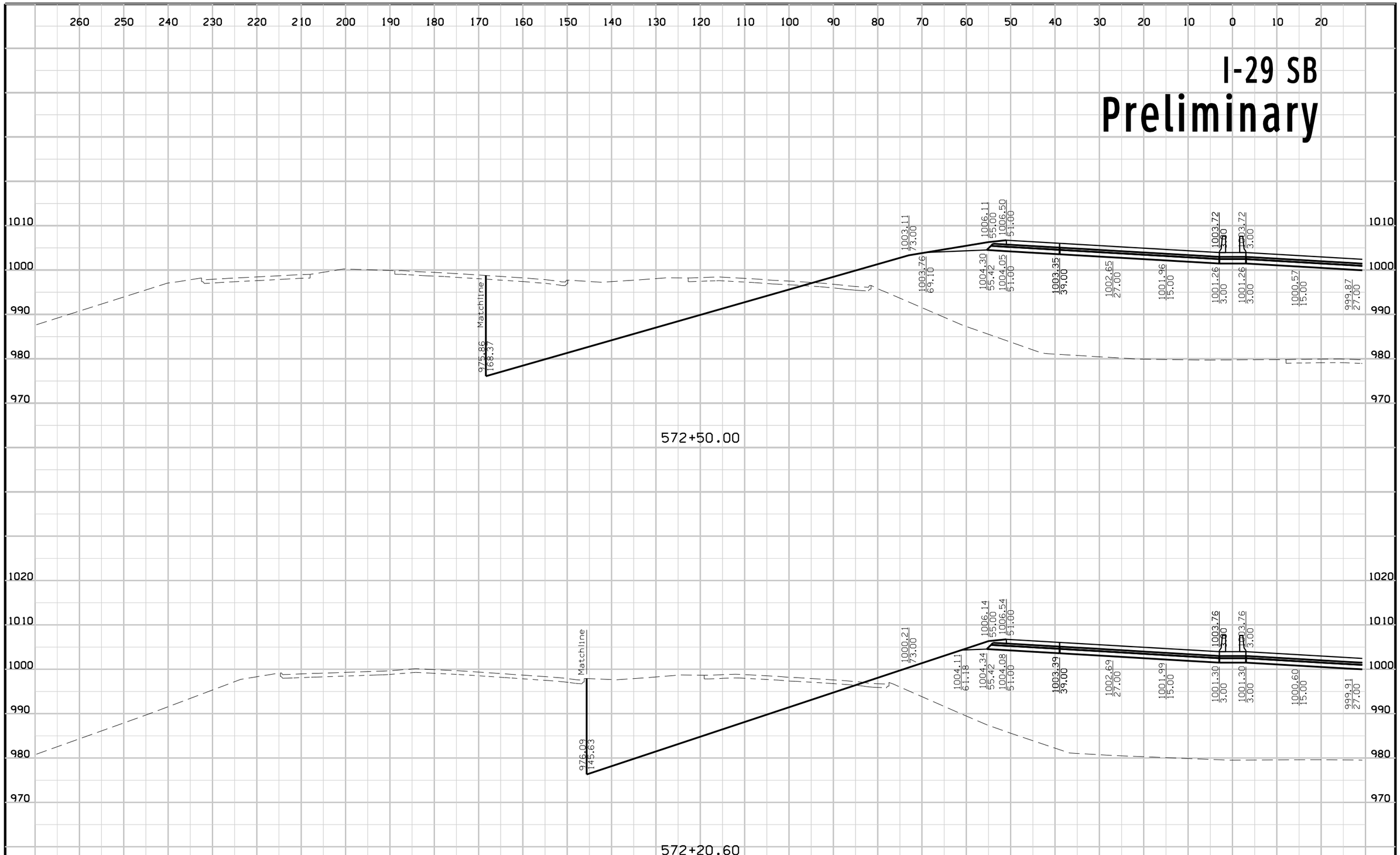
I-29 NB
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER W.131

2:51:00 PM 10/23/2017 mtoapanta pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\XSSHT_ML029.sht

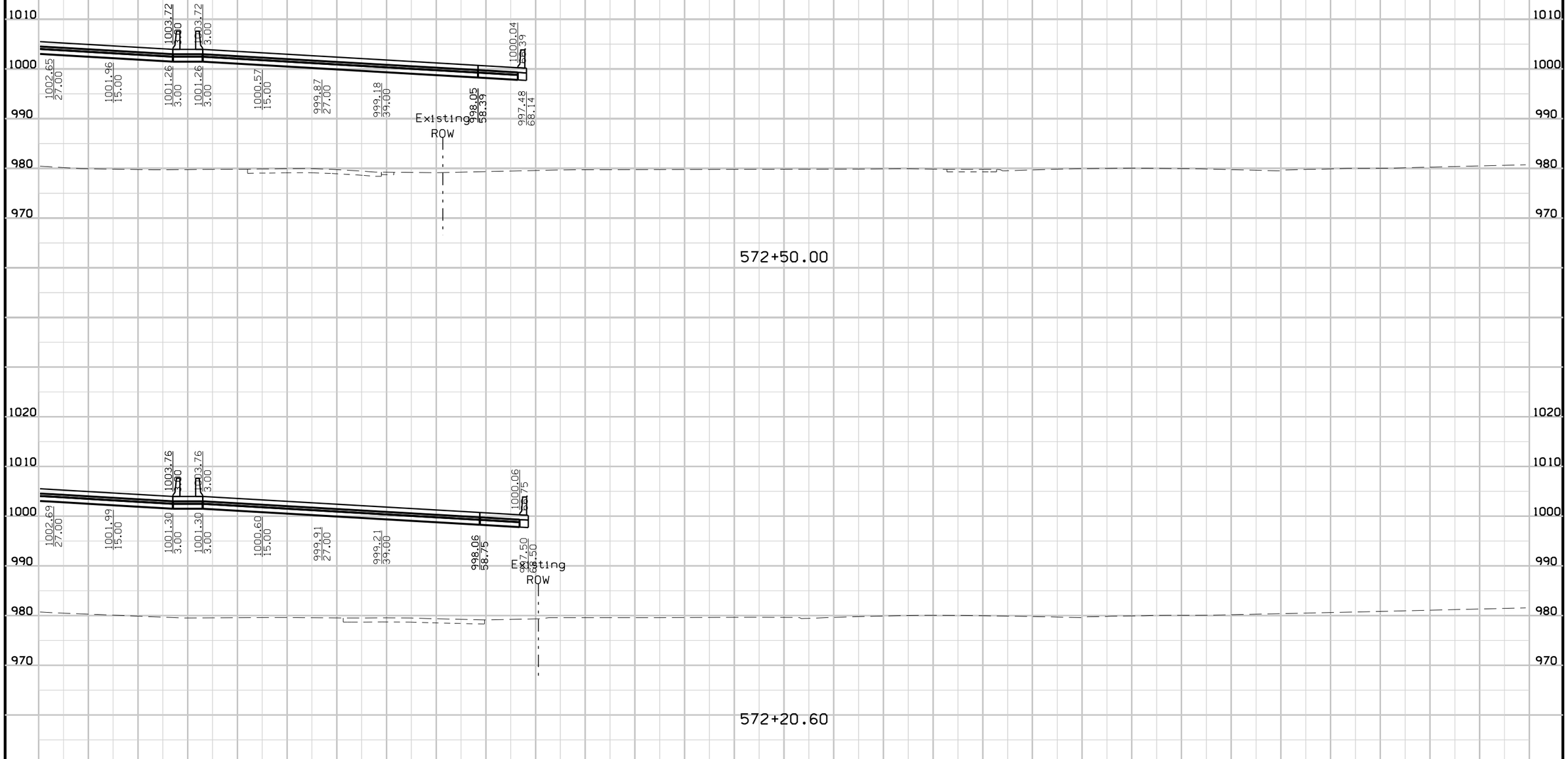
I-29 SB
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER W.132

2:51:03 PM 10/23/2017 mtoapanta pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\XSSHT_ML029.sht

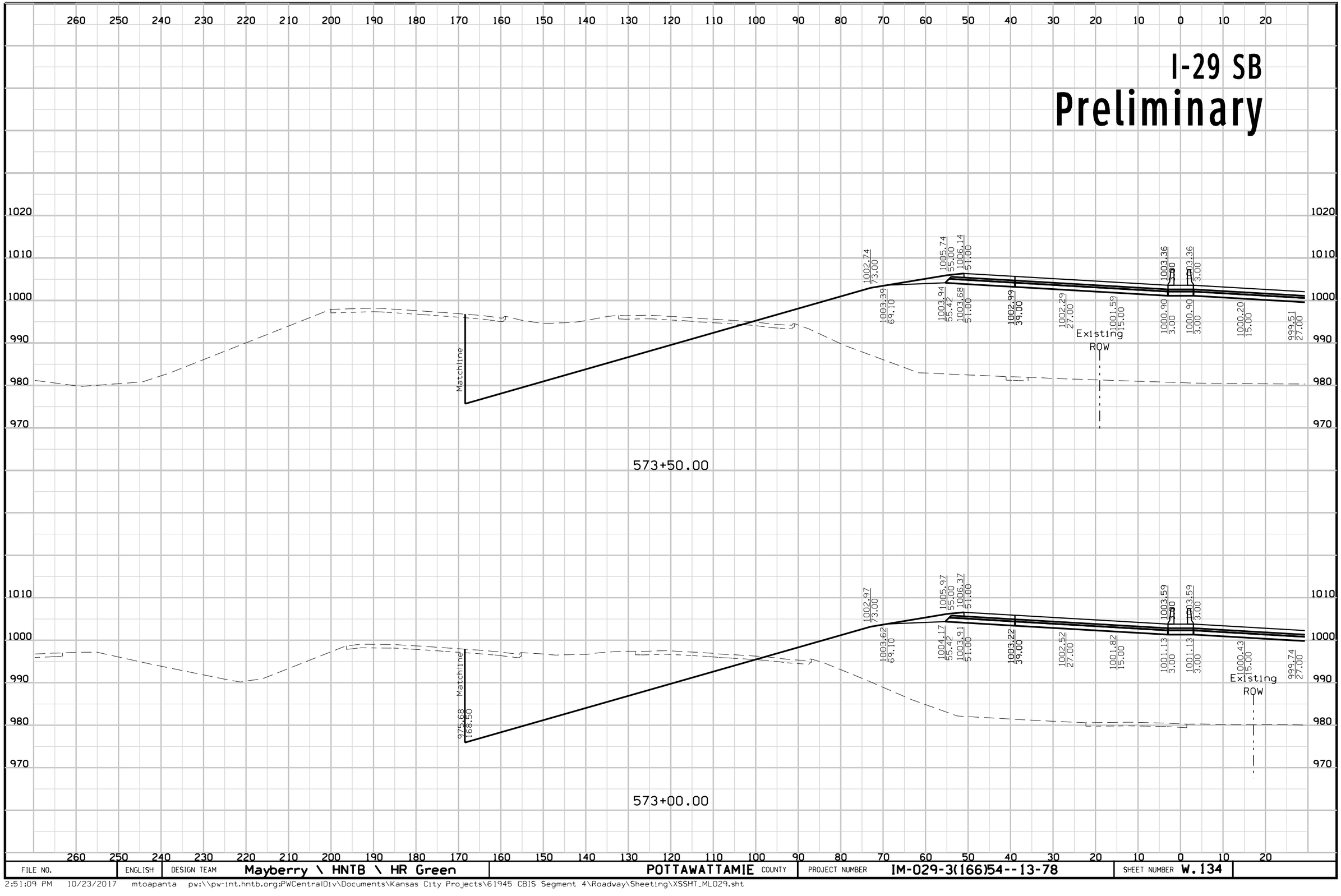
I-29 NB
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM				
		Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER IM-029-3(166)54--13-78	SHEET NUMBER W.133	

2:51:06 PM 10/23/2017 mtoapanta pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\XSSHT_ML029.sht

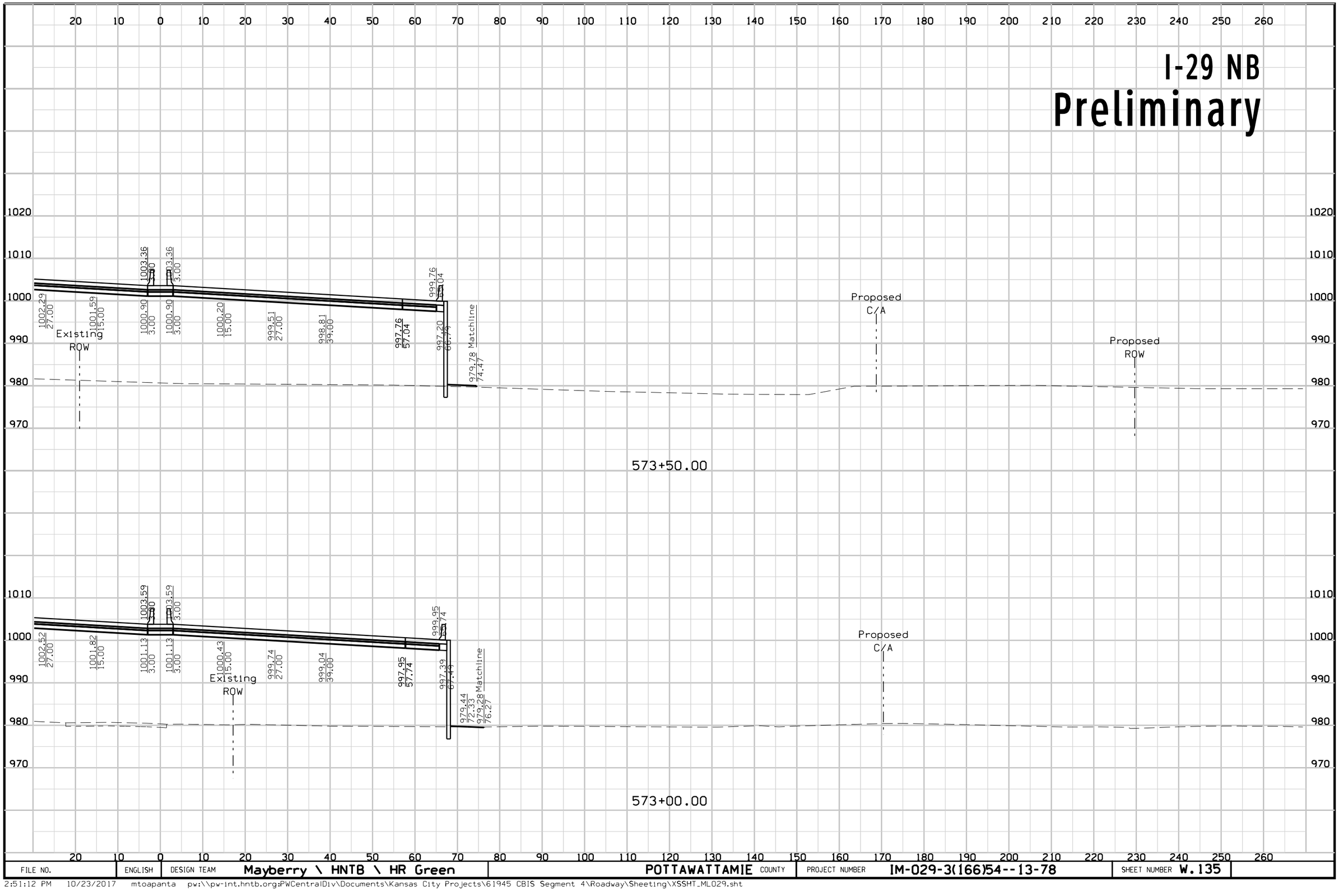
I-29 SB
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER W.134

2:51:09 PM 10/23/2017 mtoapanta pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\XSSHT_ML029.sht

I-29 NB
Preliminary

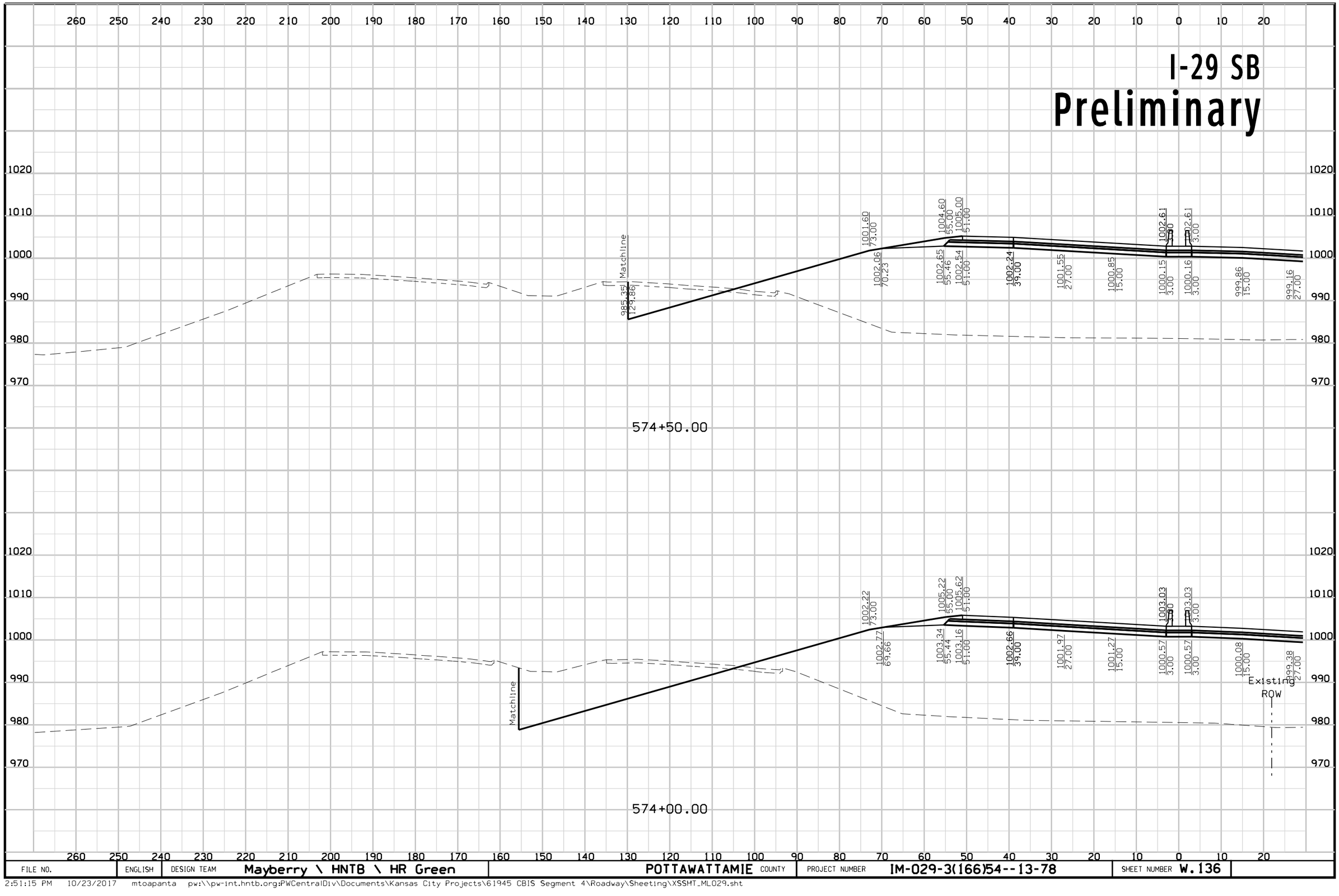


FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER W.135

2:51:12 PM 10/23/2017 mtoapanta pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\XSSHT_ML029.sht

I-29 SB

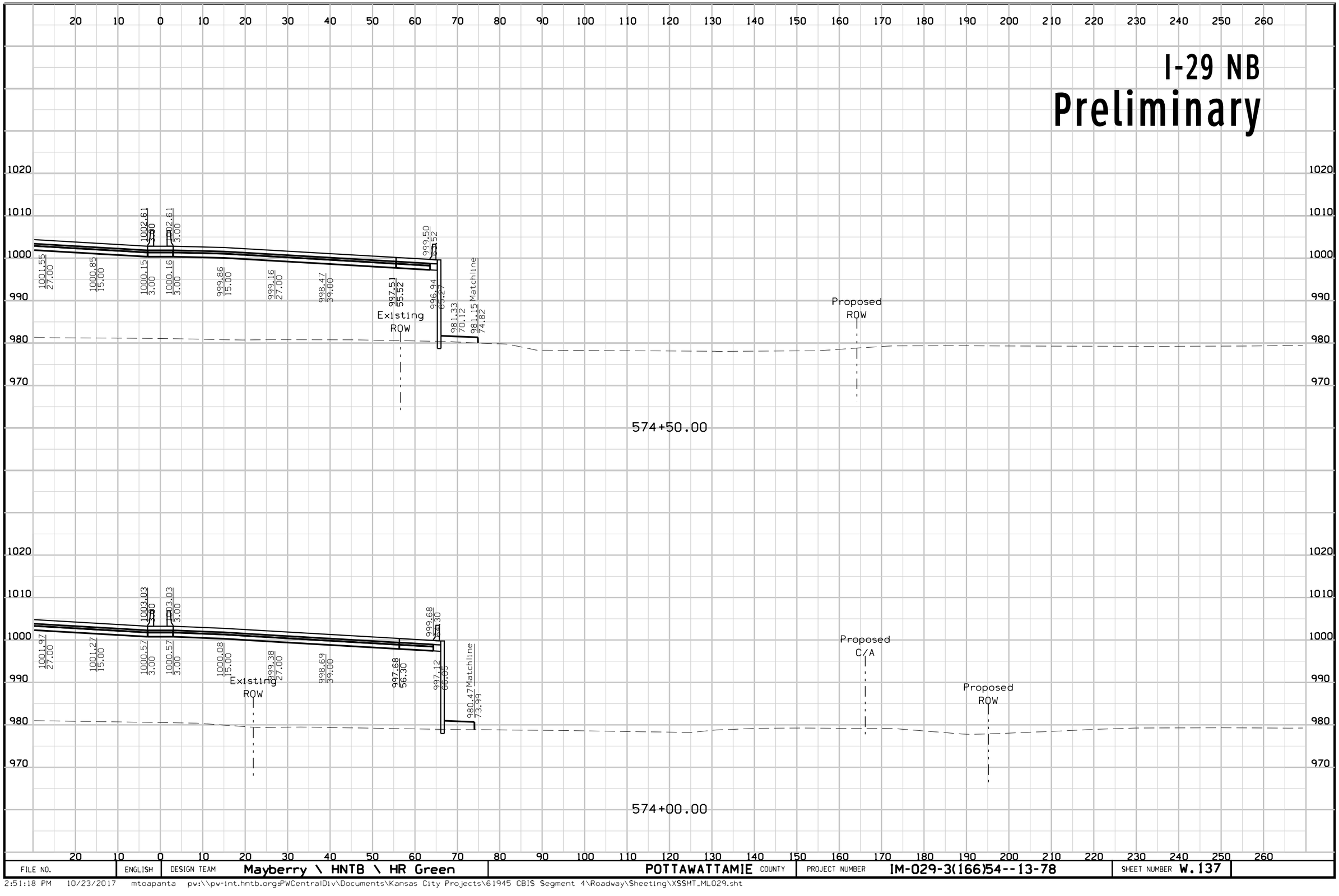
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER W.136

2:51:15 PM 10/23/2017 mtoapanta pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\XSSHT_ML029.sht

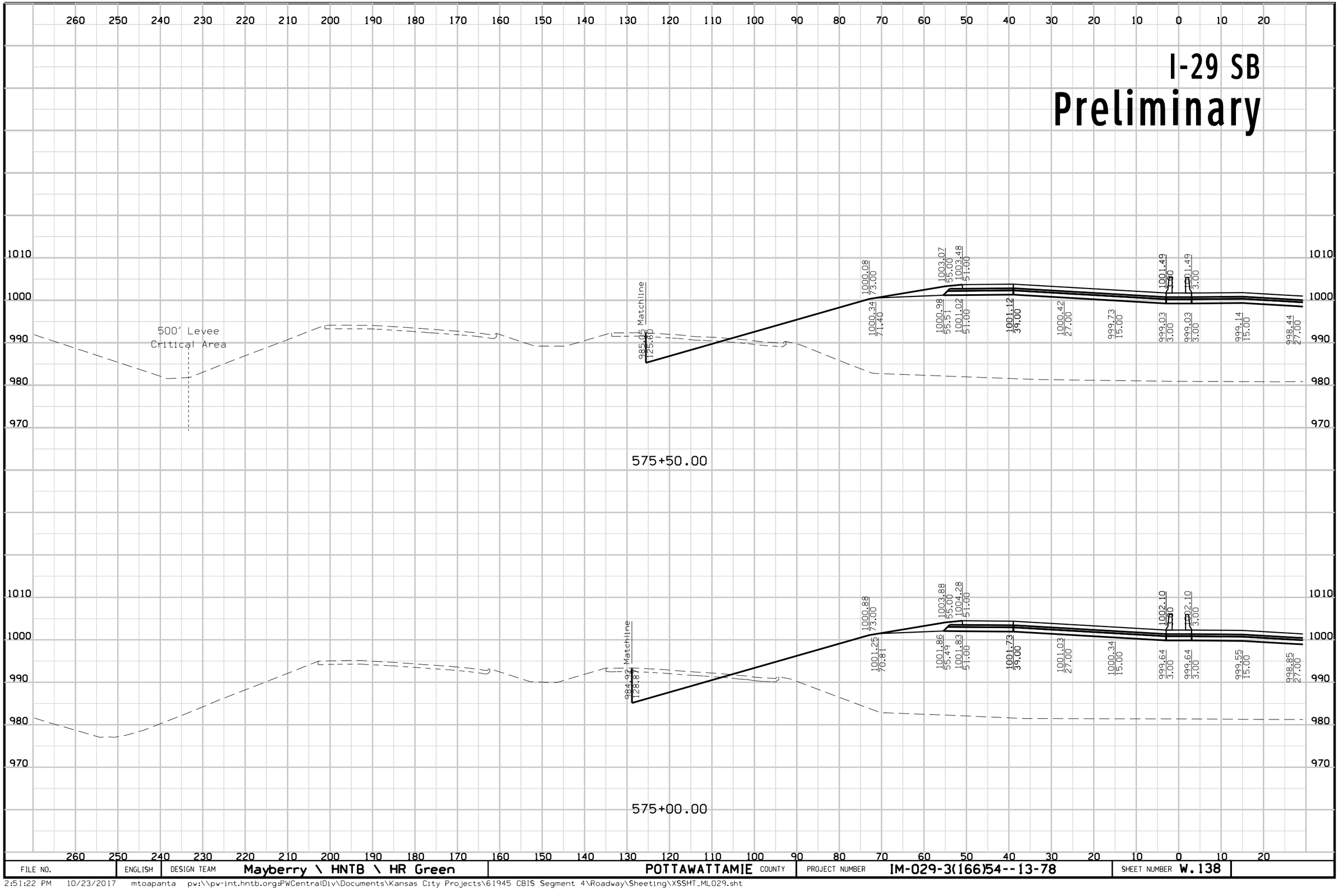
I-29 NB
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER W.137

2:51:18 PM 10/23/2017 mtoapanta pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\XSSHT_ML029.sht

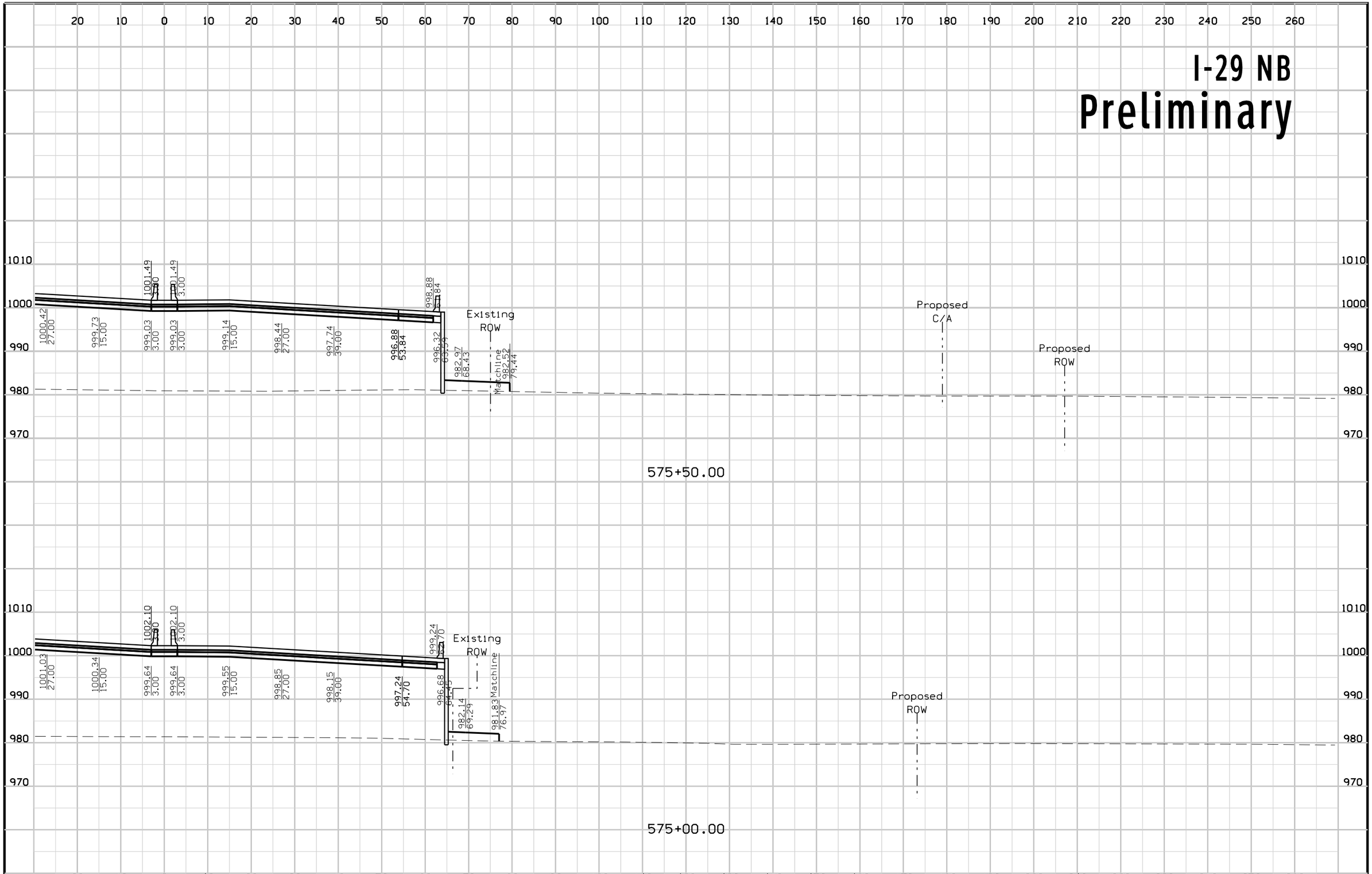
I-29 SB
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER W.138

2:51:22 PM 10/23/2017 mtoapanta pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\XSSHT_ML029.sht

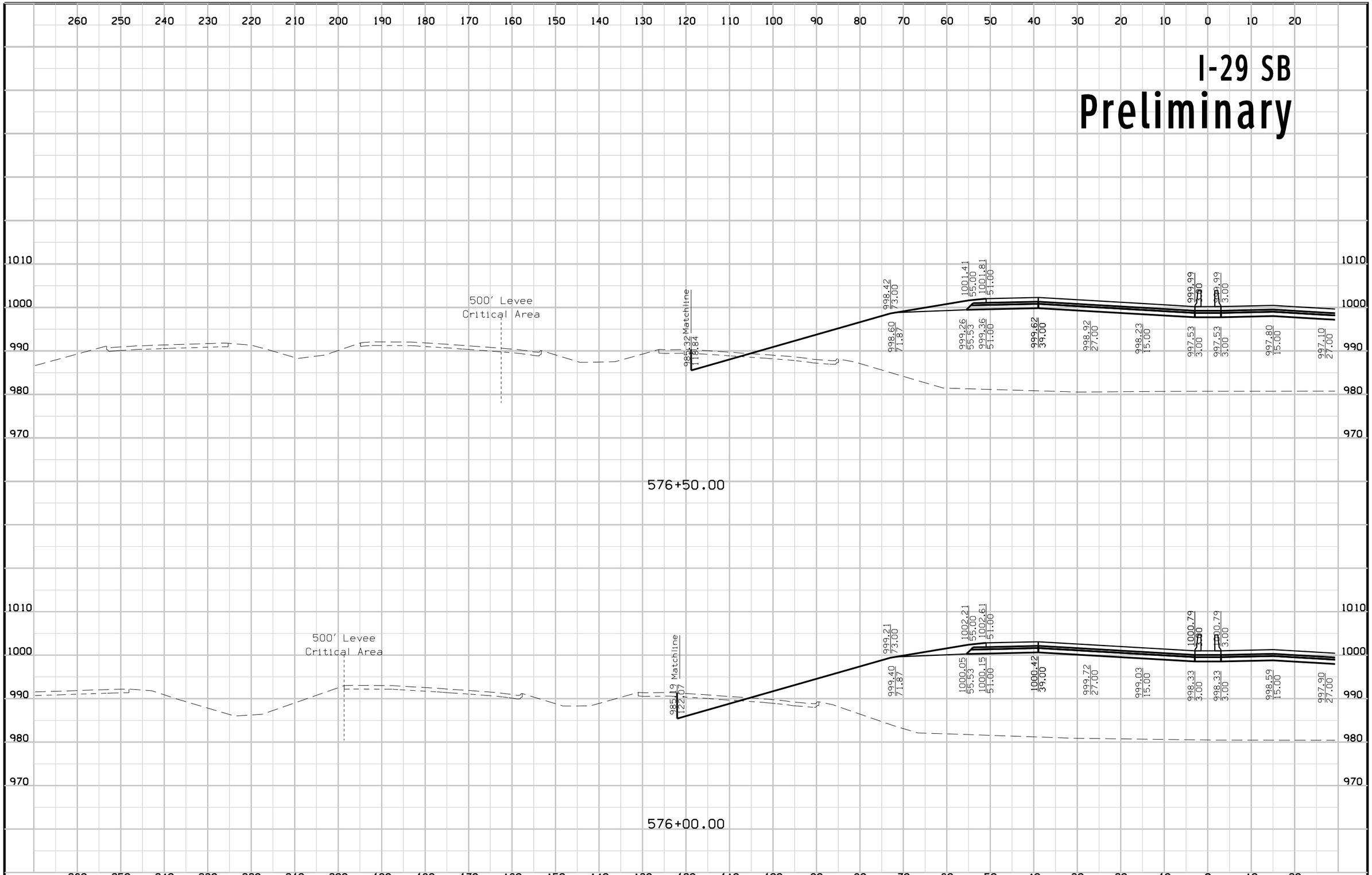
I-29 NB
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM			PROJECT NUMBER	SHEET NUMBER
		Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY		IM-029-3(166)54--13-78	W.139

2:51:25 PM 10/23/2017 mtoapanta pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\XSSHT_ML029.sht

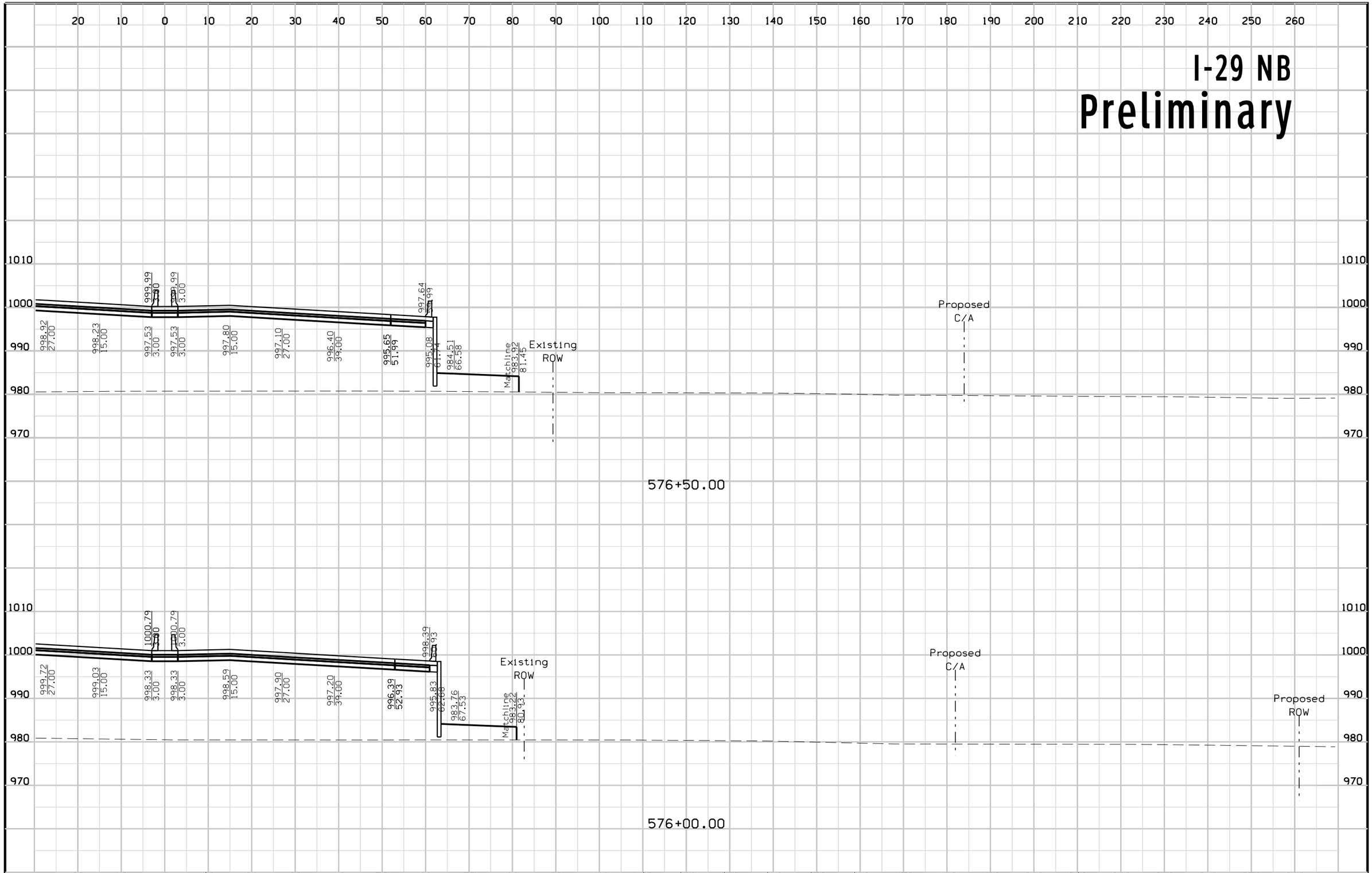
I-29 SB
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER W.140

2:51:28 PM 10/23/2017 mtoapanta pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\XSSHT_ML029.sht

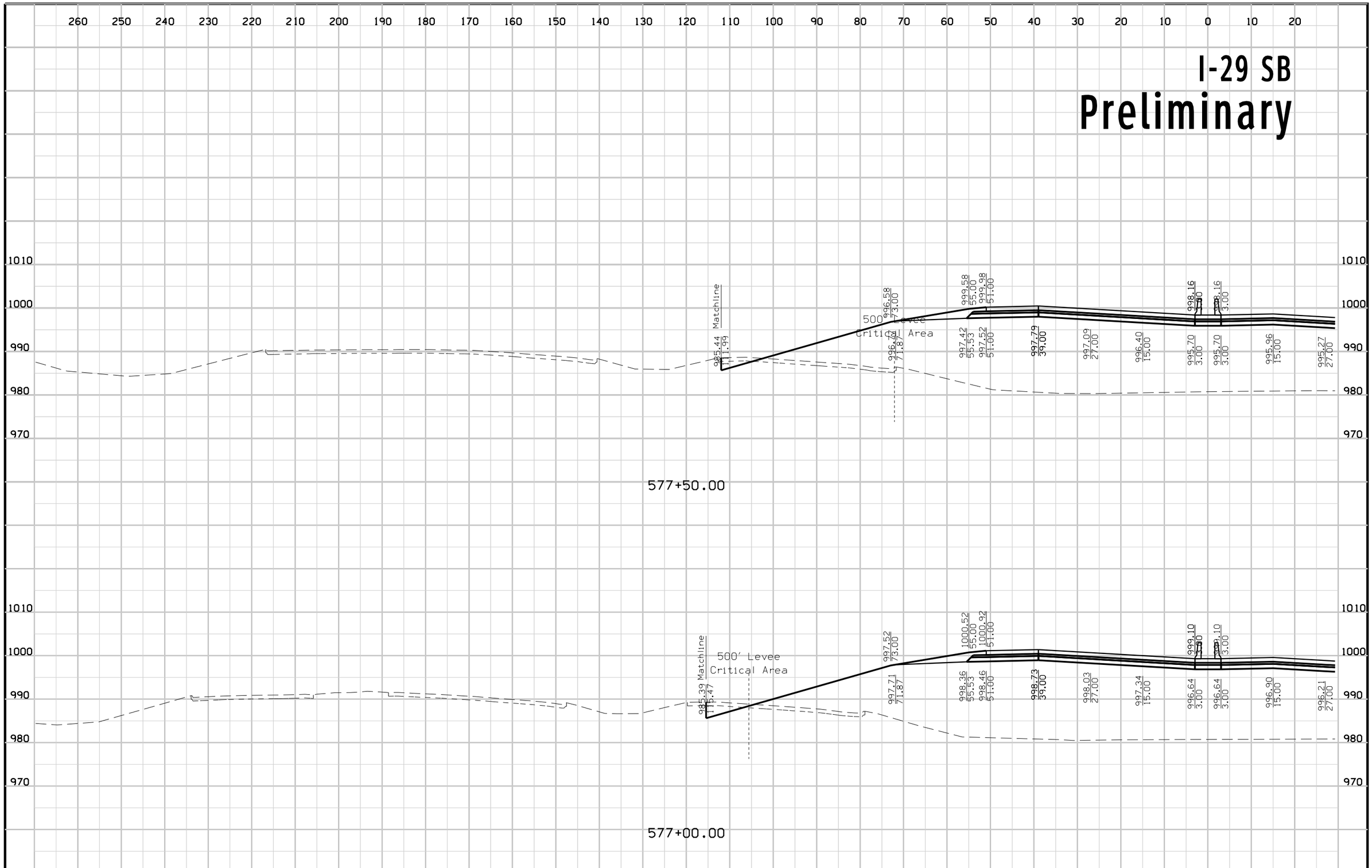
I-29 NB
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM					
		Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER IM-029-3(166)54--13-78	SHEET NUMBER W.141		

2:51:31 PM 10/23/2017 mtoapanta pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\XSSHT_ML029.sht

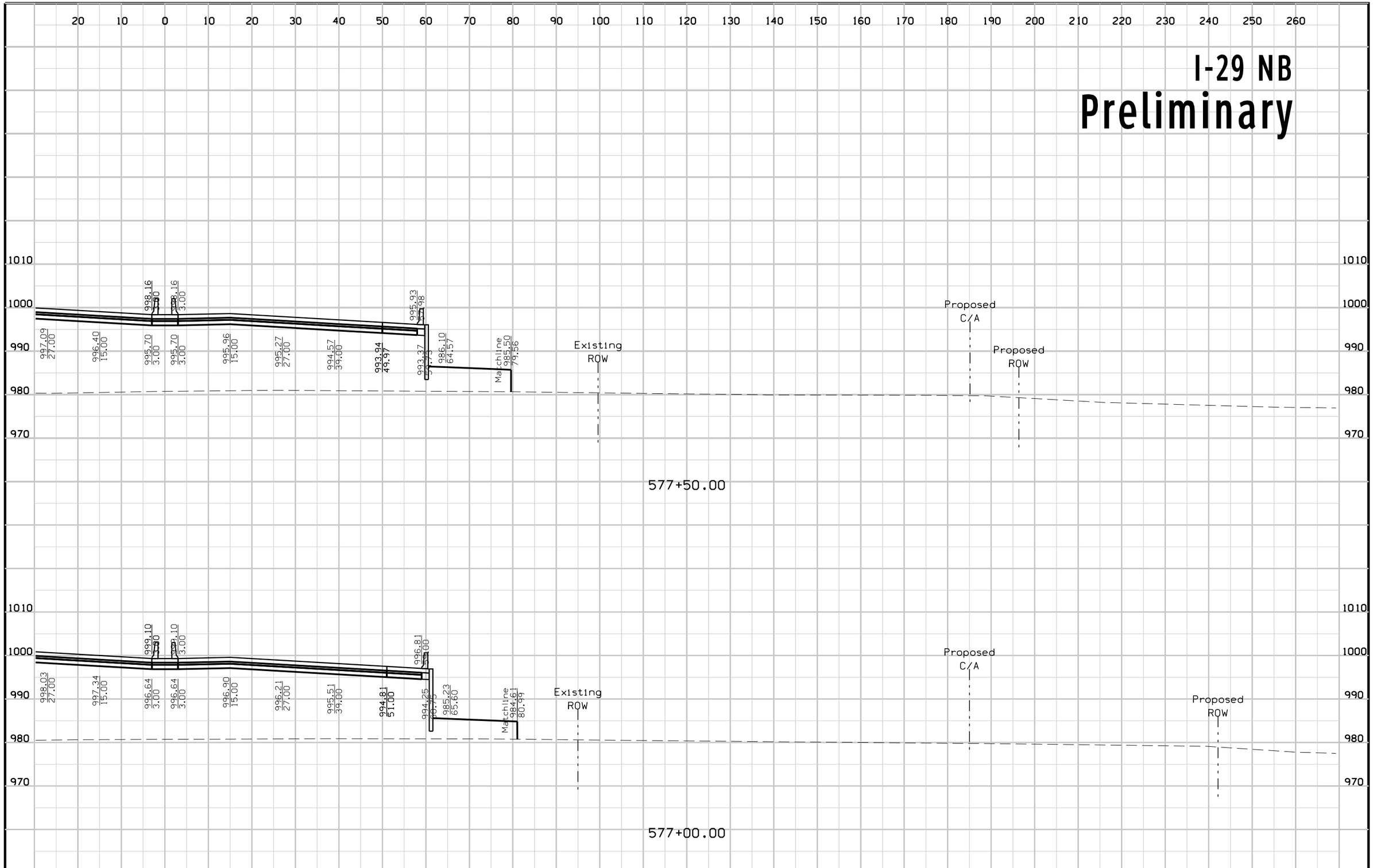
I-29 SB
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER W.142

2:51:34 PM 10/23/2017 mtoapanta pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\XSSHT_ML029.sht

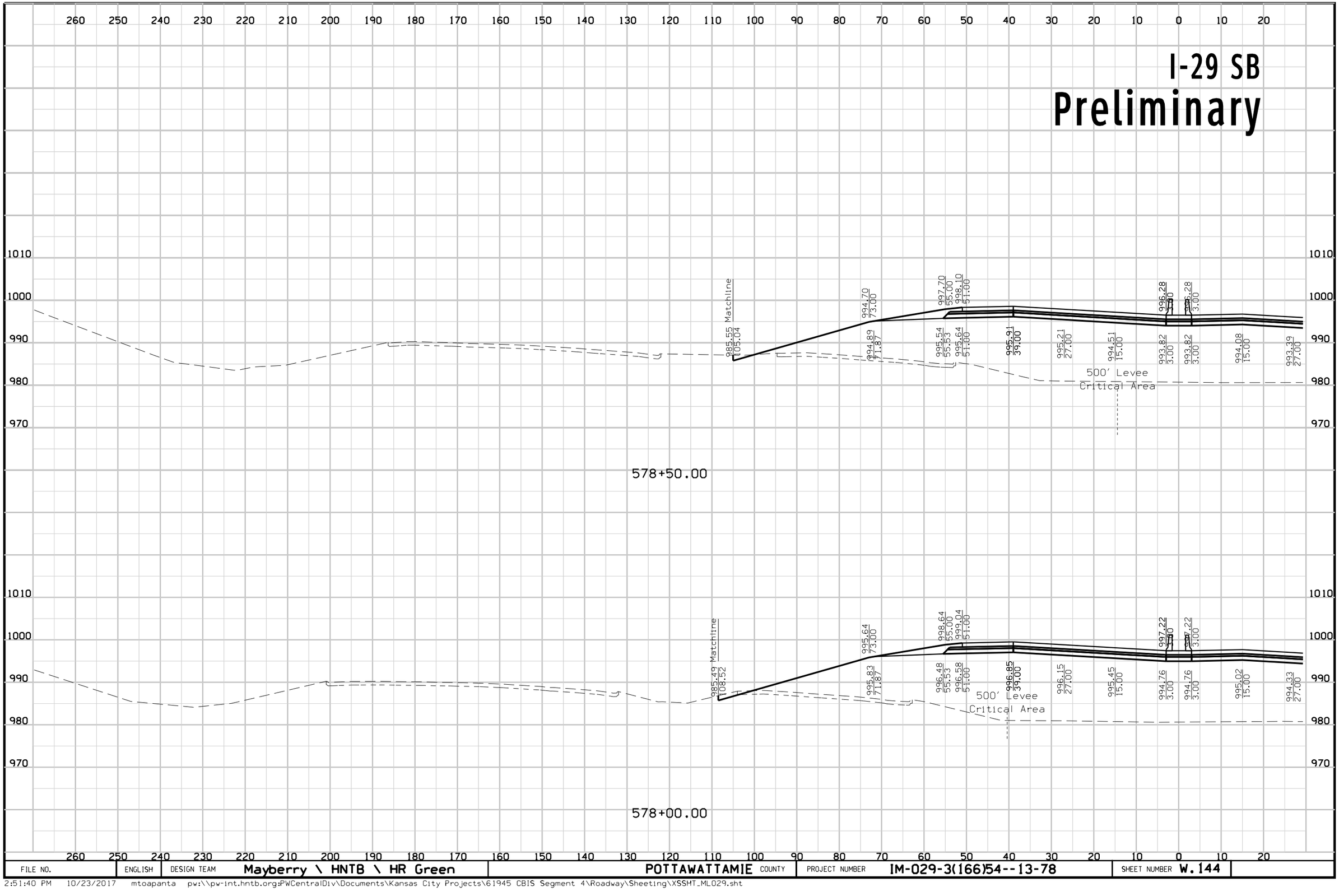
I-29 NB
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER IM-029-3(166)54--13-78	SHEET NUMBER W.143

2:51:37 PM 10/23/2017 mtoapanta pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\XSSHT_ML029.sht

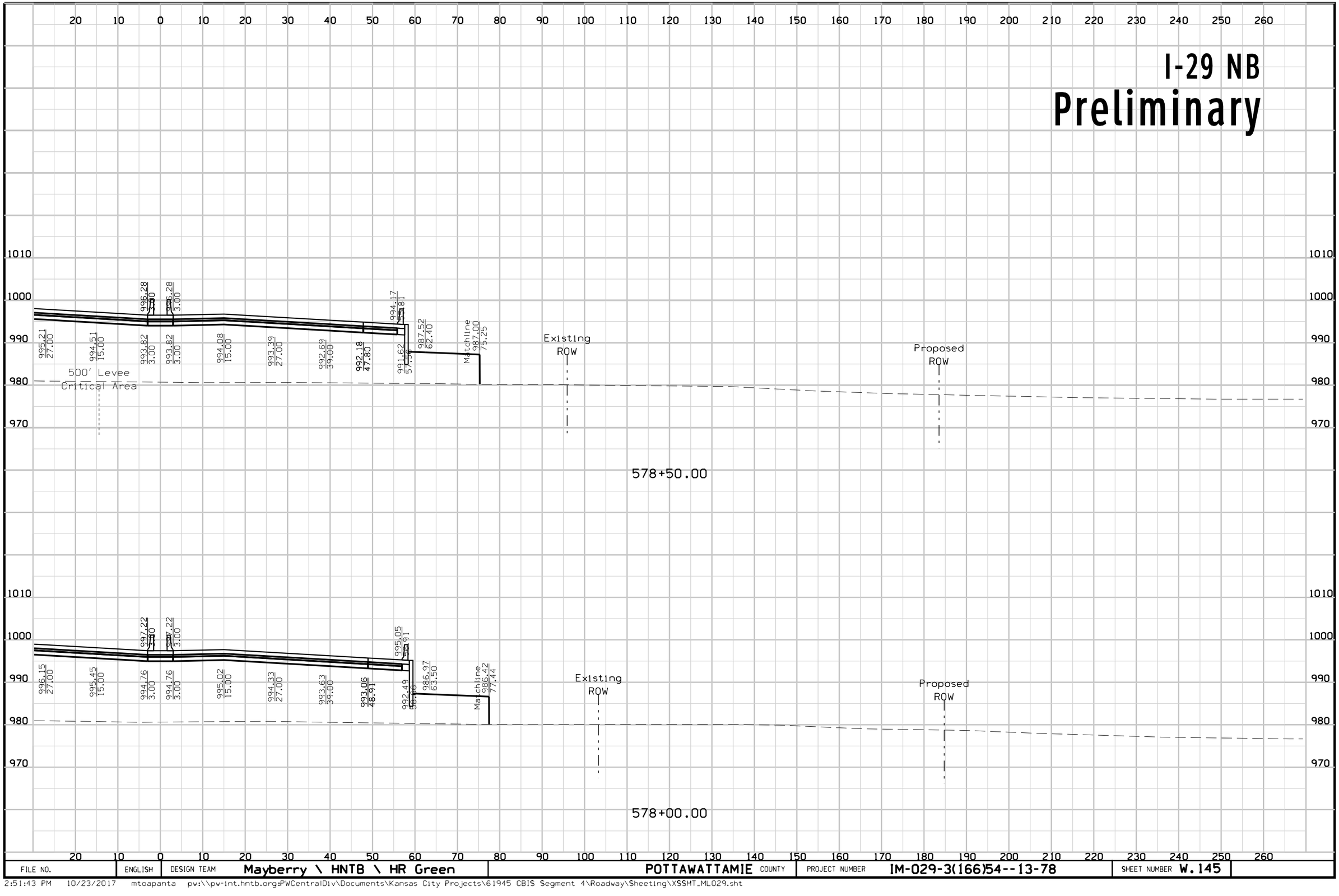
I-29 SB
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER W.144

2:51:40 PM 10/23/2017 mtoapanta pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\XSSHT_ML029.sht

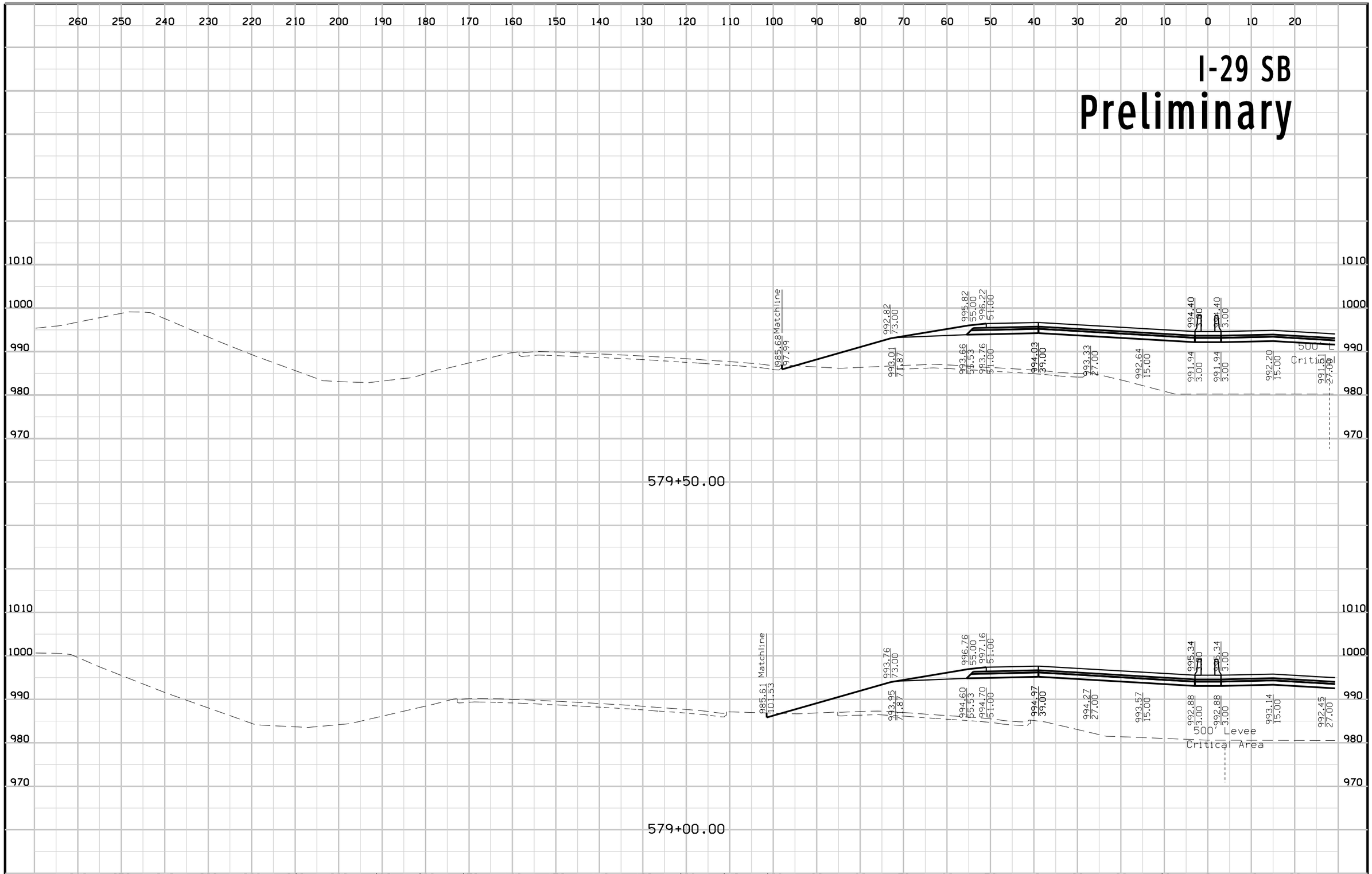
I-29 NB
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM		COUNTY	PROJECT NUMBER	SHEET NUMBER
		Mayberry \ HNTB \ HR Green	POTTAWATTAMIE		IM-029-3(166)54--13-78	W.145

2:51:43 PM 10/23/2017 mtoapanta pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\XSSHT_ML029.sht

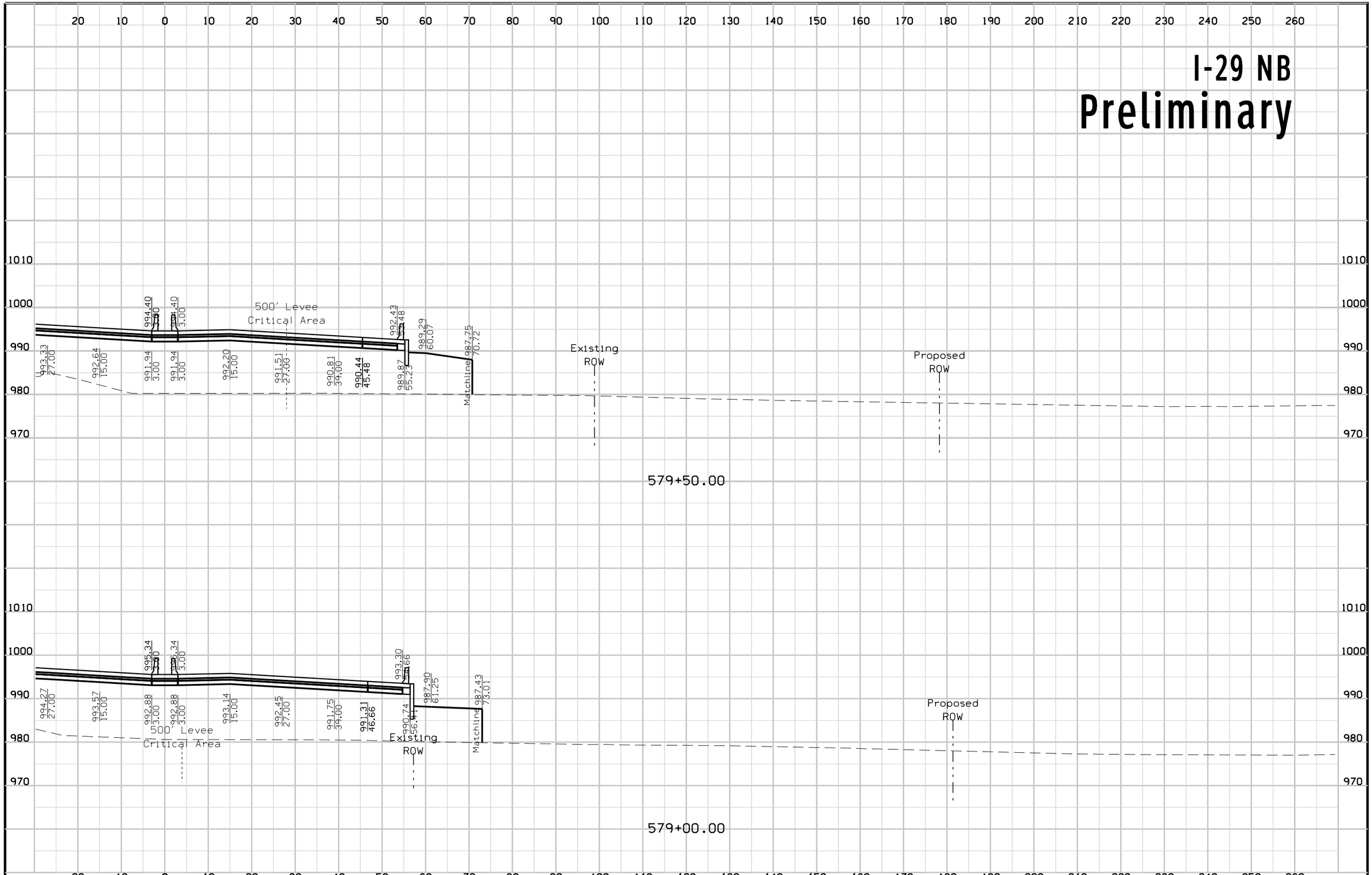
I-29 SB
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER W.146

2:51:46 PM 10/23/2017 mtoapanta pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\XSSHT_ML029.sht

I-29 NB
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER W.147

3:12:30 PM 10/24/2017 mtoapanta pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\XSSHT_ML029.sht

I-29 SB
Preliminary

260 250 240 230 220 210 200 190 180 170 160 150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20

1010 1000 990 980 970

985.84 Matchline
994.18
991.04
73.00
994.04
55.00
994.44
51.00
992.61
3.00
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991.27
15.00
990.58
27.00

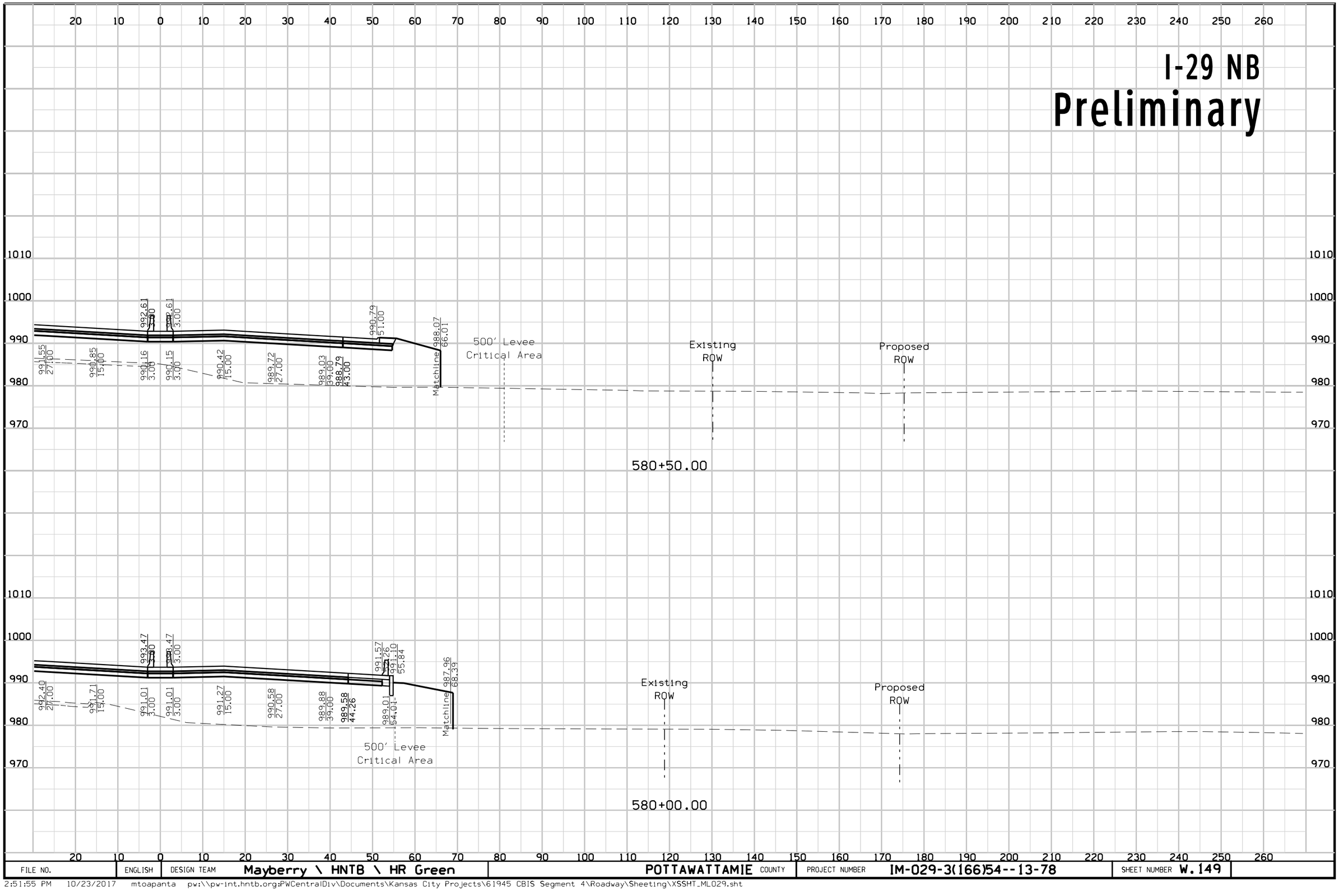
580+00.00

260 250 240 230 220 210 200 190 180 170 160 150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20

FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER W.148

2:51:52 PM 10/23/2017 mtoapanta pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\XSSHT_ML029.sht

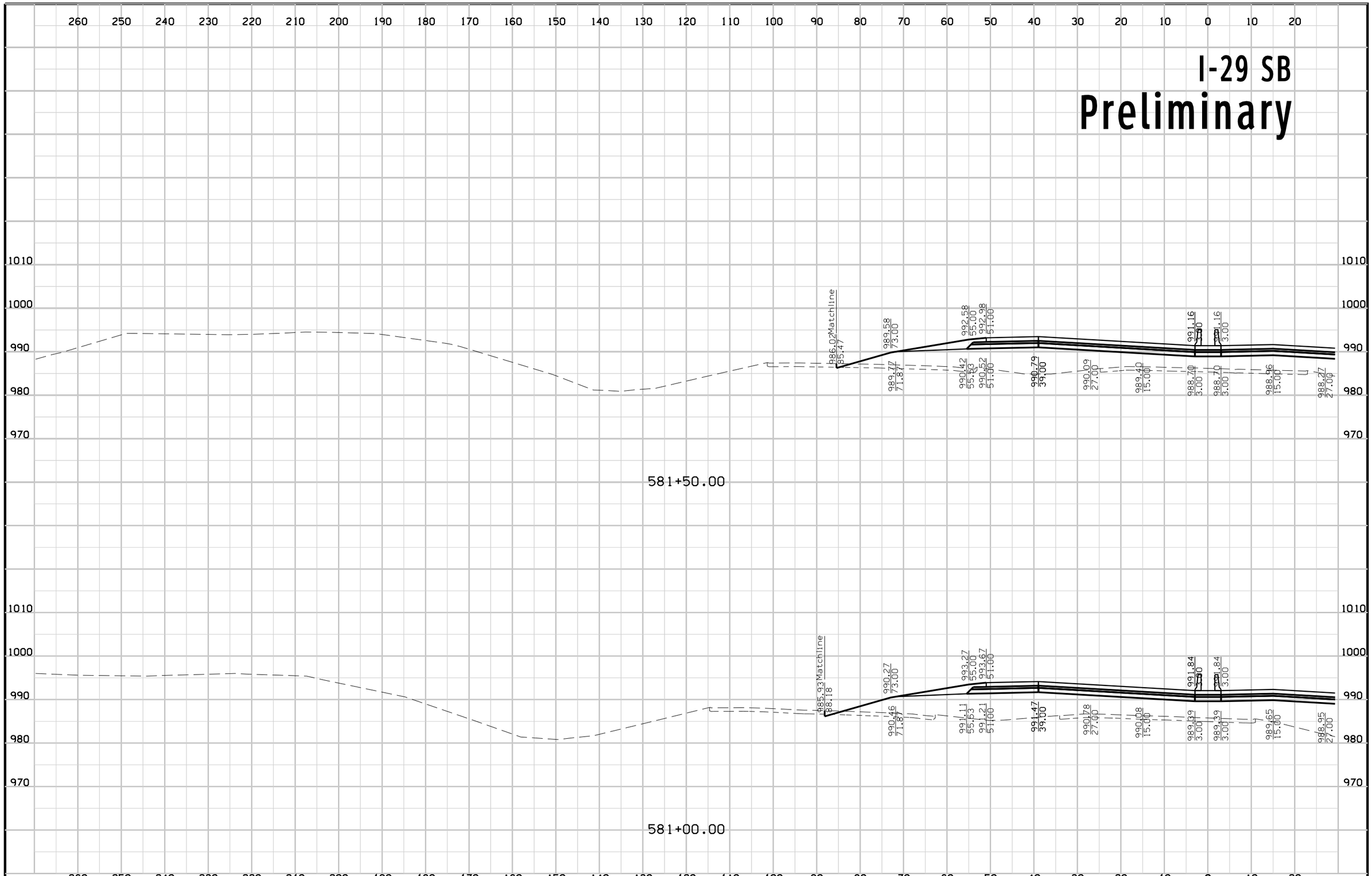
I-29 NB
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER W.149

2:51:55 PM 10/23/2017 mtoapanta pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\XSSHT_ML029.sht

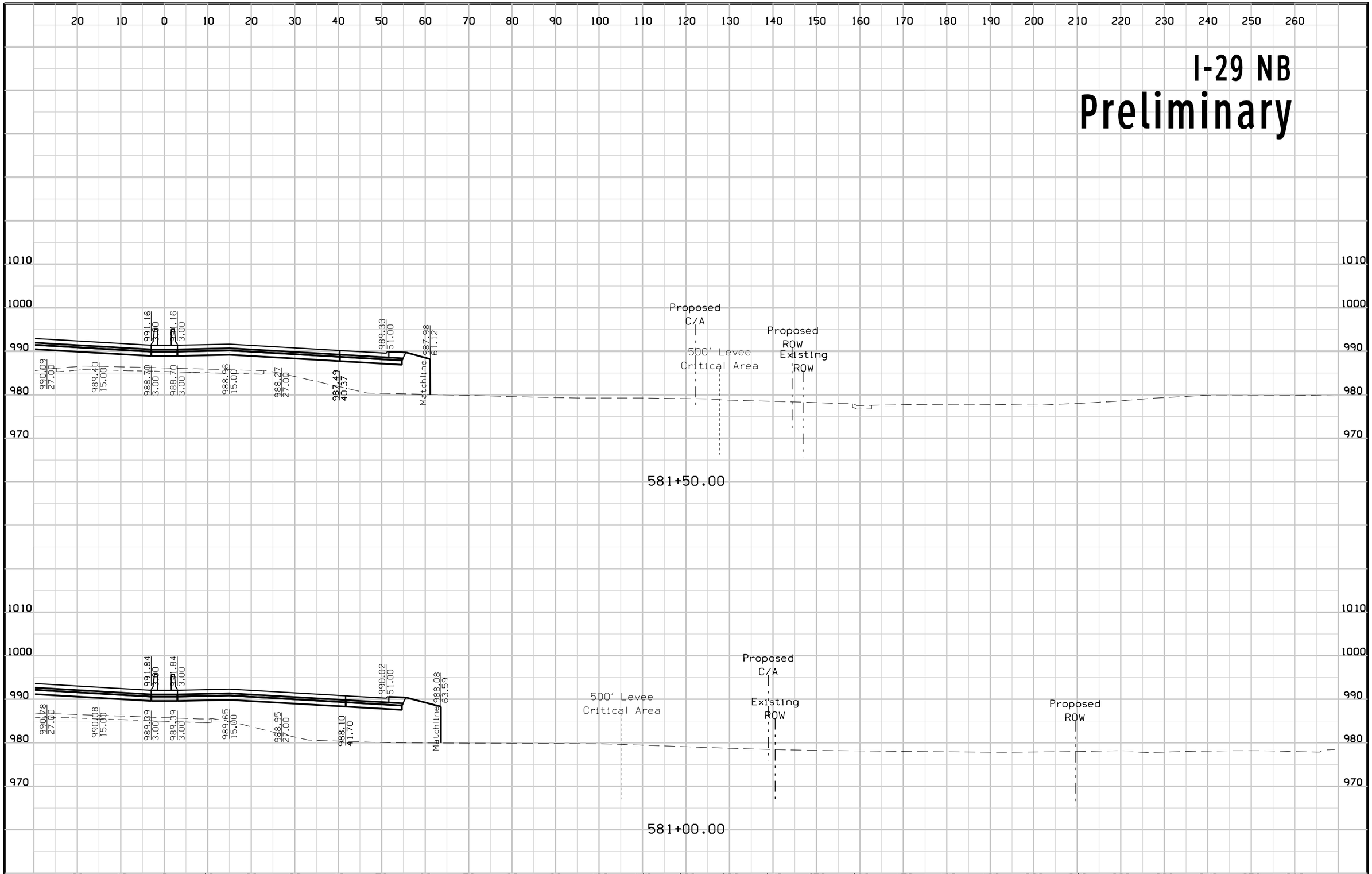
I-29 SB
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER W.150

2:51:58 PM 10/23/2017 mtoapanta pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\XSSHT_ML029.sht

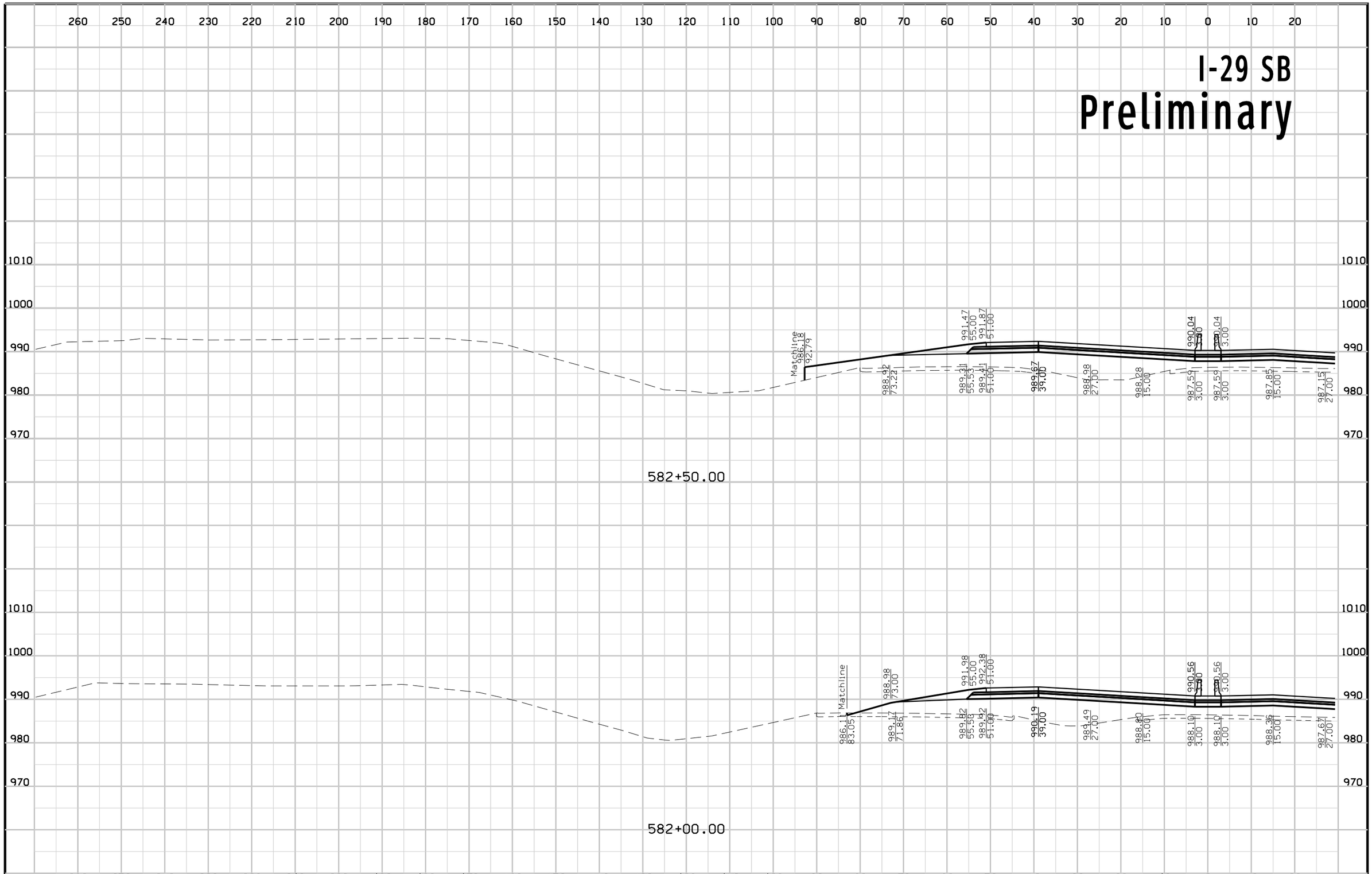
I-29 NB
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER W.151

3:10:38 PM 10/23/2017 mtoapanta pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\XSSHT_ML029.sht

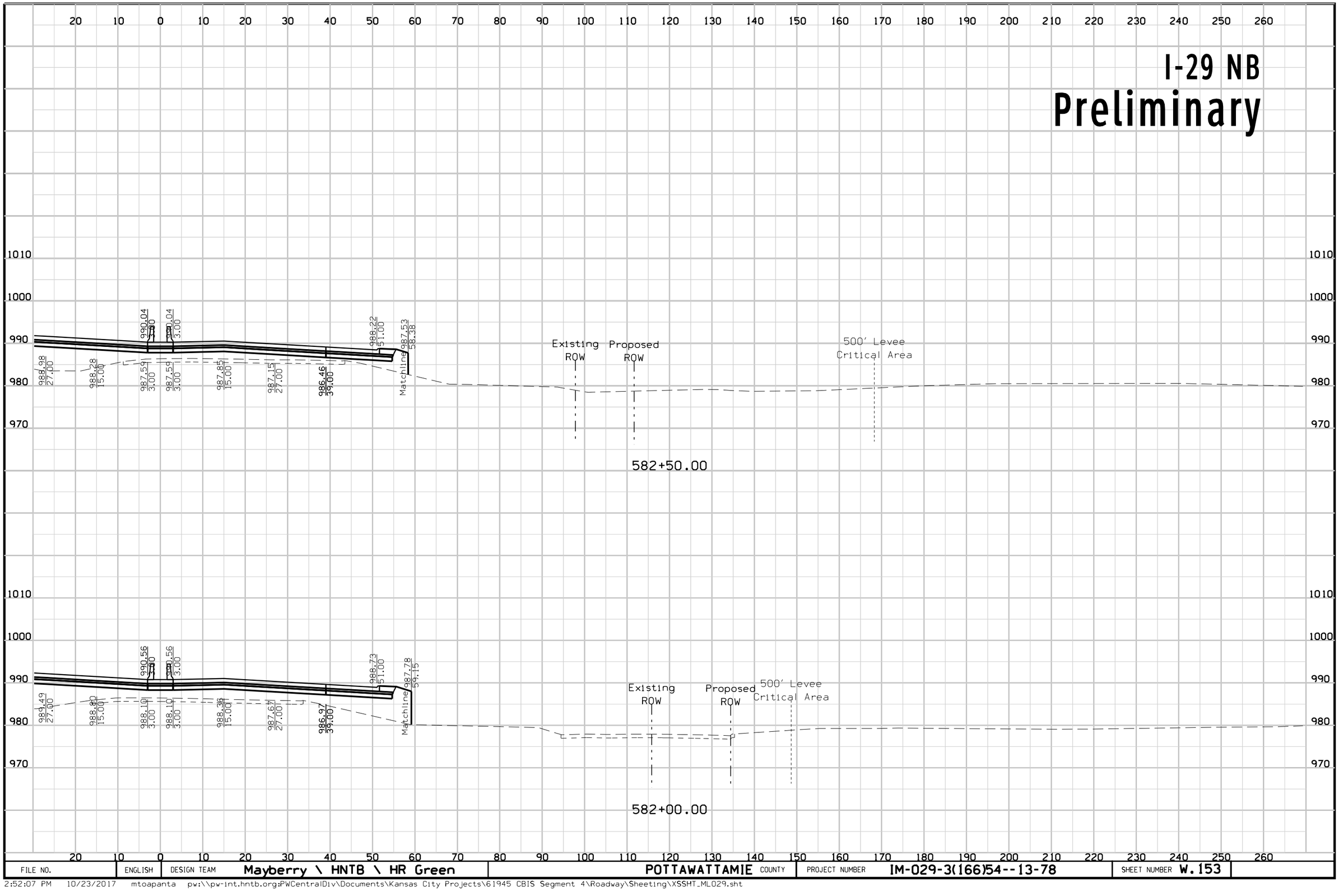
I-29 SB
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER W.152

2:52:04 PM 10/23/2017 mtoapanta pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\XSSHT_ML029.sht

I-29 NB
Preliminary

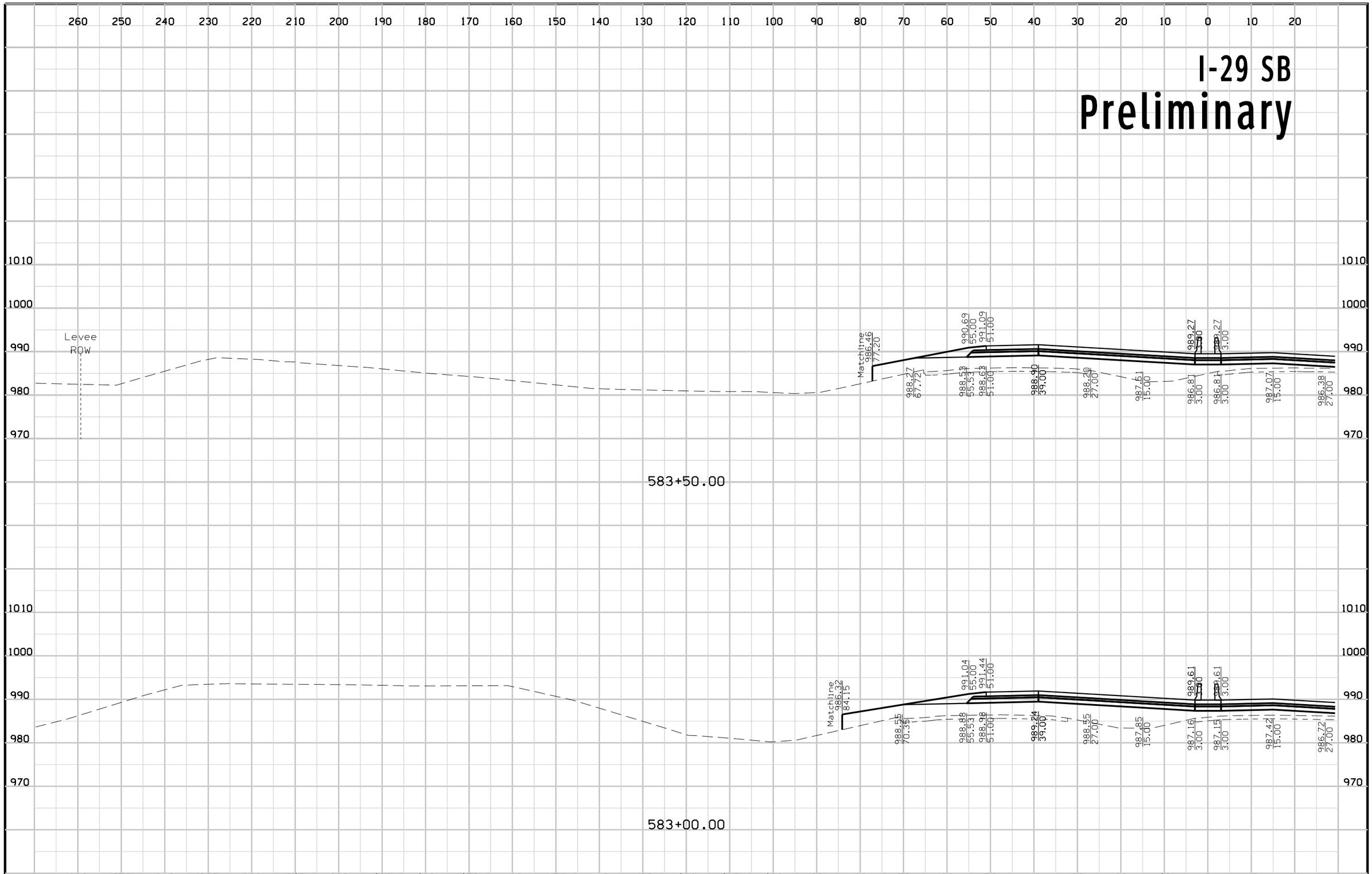


FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER W.153

2:52:07 PM 10/23/2017 mtoapanta pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\XSSHT_ML029.sht

I-29 SB

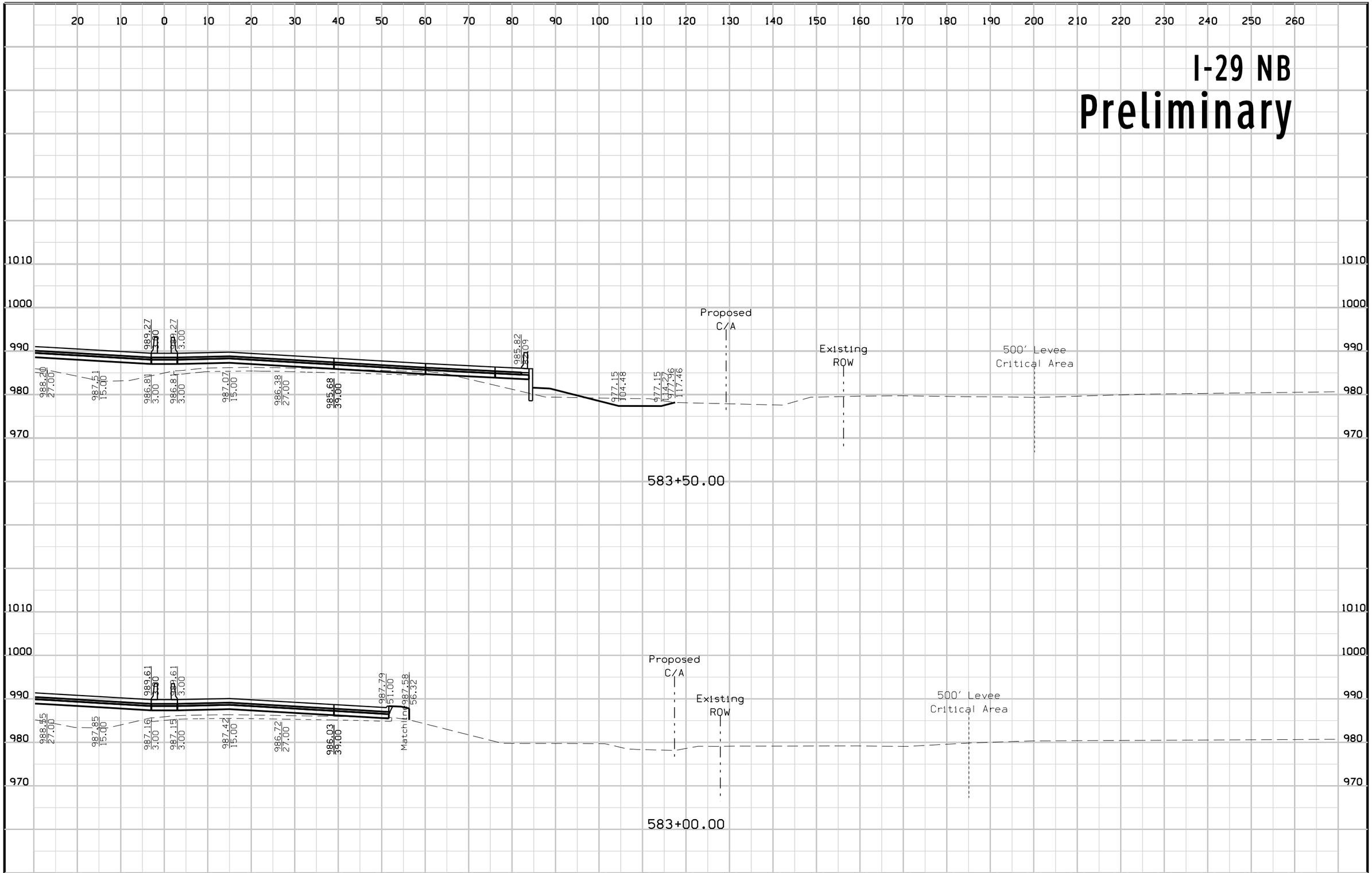
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER W.154

2:52:10 PM 10/23/2017 mtoapanta pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\XSSHT_ML029.sht

I-29 NB
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER W.155

2:52:13 PM 10/23/2017 mtoapanta pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\XSSHT_ML029.sht

I-29 SB
Preliminary

260 250 240 230 220 210 200 190 180 170 160 150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20

1010
1000
990
980
970

Levee
ROW

Matchline
987.04
69.09

987.78
65.75

990.16
55.00
990.56
51.00

988.00
55.53
988.10
51.00

988.37
39.00

987.67
27.00

986.97
15.00

988.74
3.00
988.74
3.00

986.28
3.000
986.28
3.00

986.54
15.00

985.85
27.00

584+50.00

Levee
ROW

Matchline
986.59
71.95

988.04
65.52

990.42
55.00
990.82
51.00

988.26
55.53
988.36
51.00

988.63
39.00

987.93
27.00

987.23
15.00

989.00
3.00
989.00
3.00

986.54
3.00
986.54
3.00

986.80
15.00

986.11
27.00

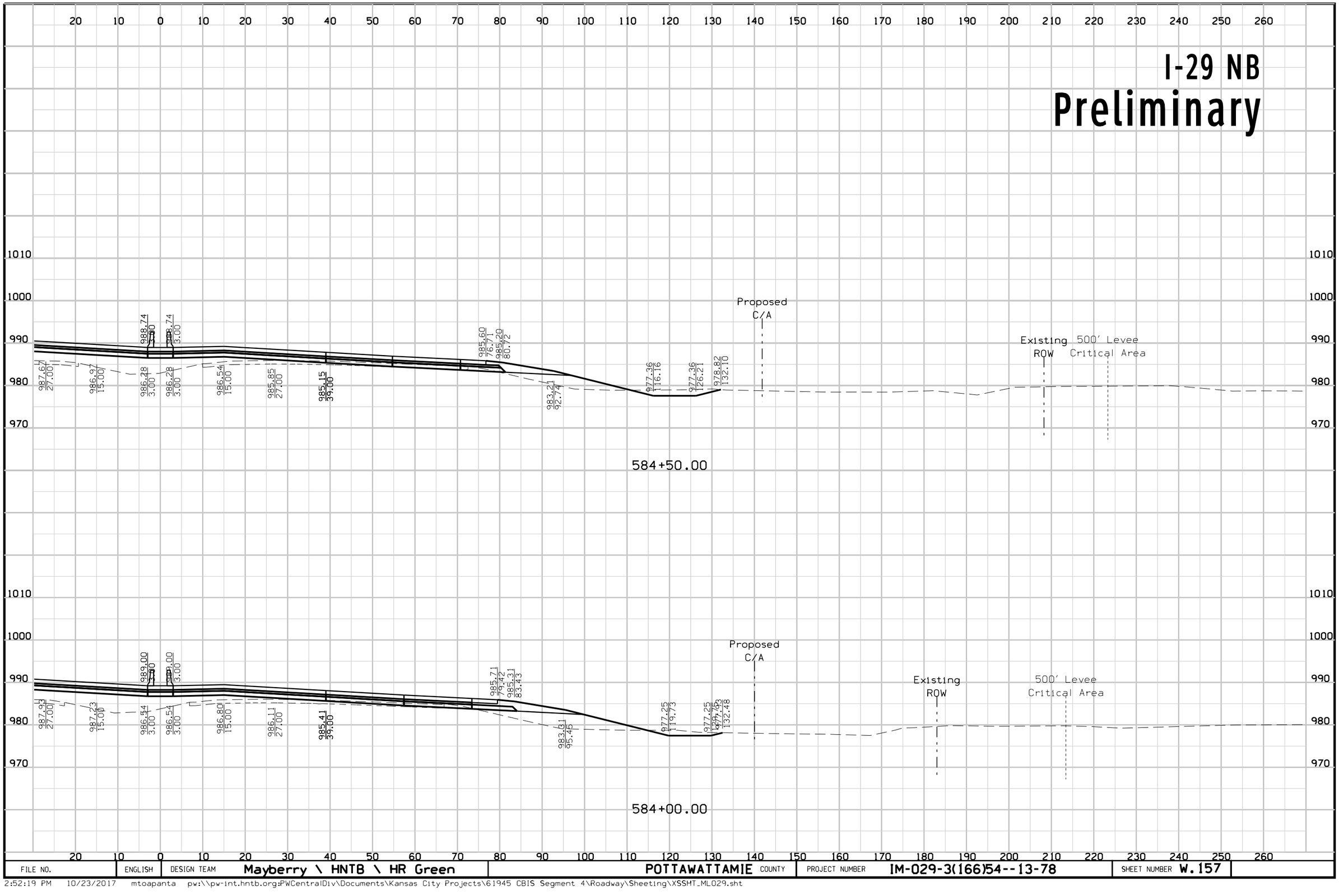
584+00.00

260 250 240 230 220 210 200 190 180 170 160 150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20

FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER W.156

2:52:16 PM 10/23/2017 mtoapanta pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\XSSHT_ML029.sht

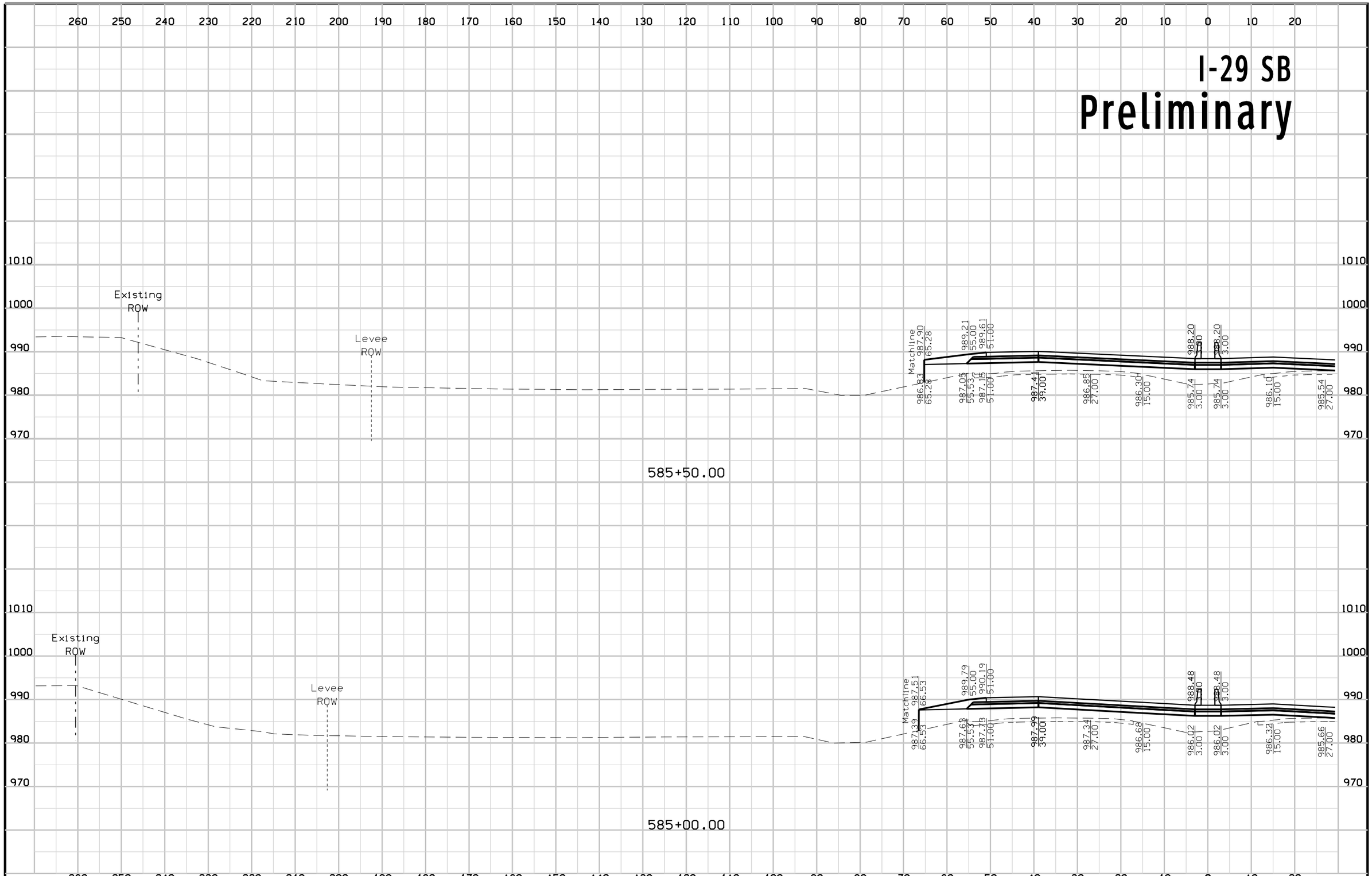
I-29 NB
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER W.157

2:52:19 PM 10/23/2017 mtoapanta pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\XSSHT_ML029.sht

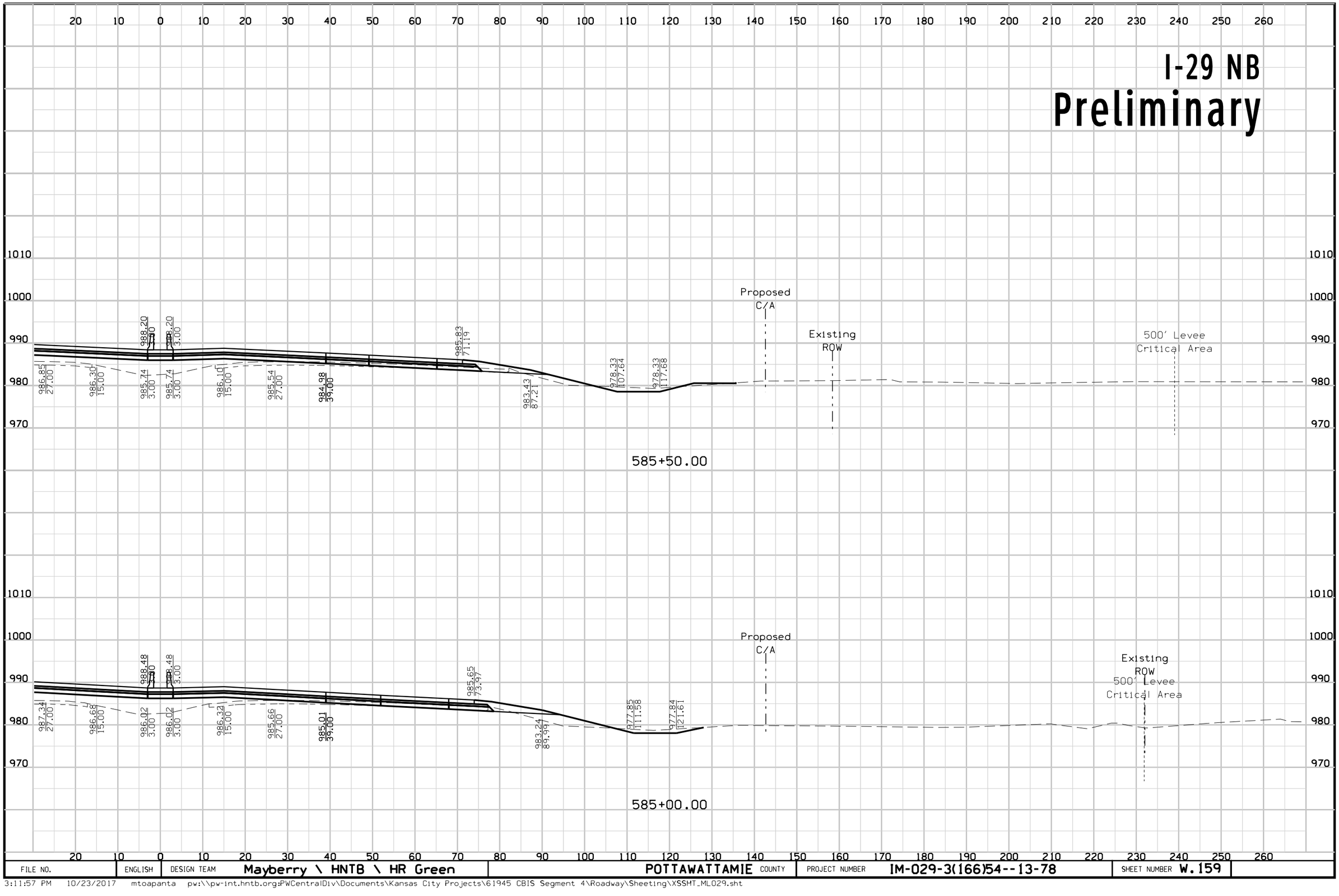
I-29 SB
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER W.158

2:52:22 PM 10/23/2017 mtoapanta pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\XSSHT_ML029.sht

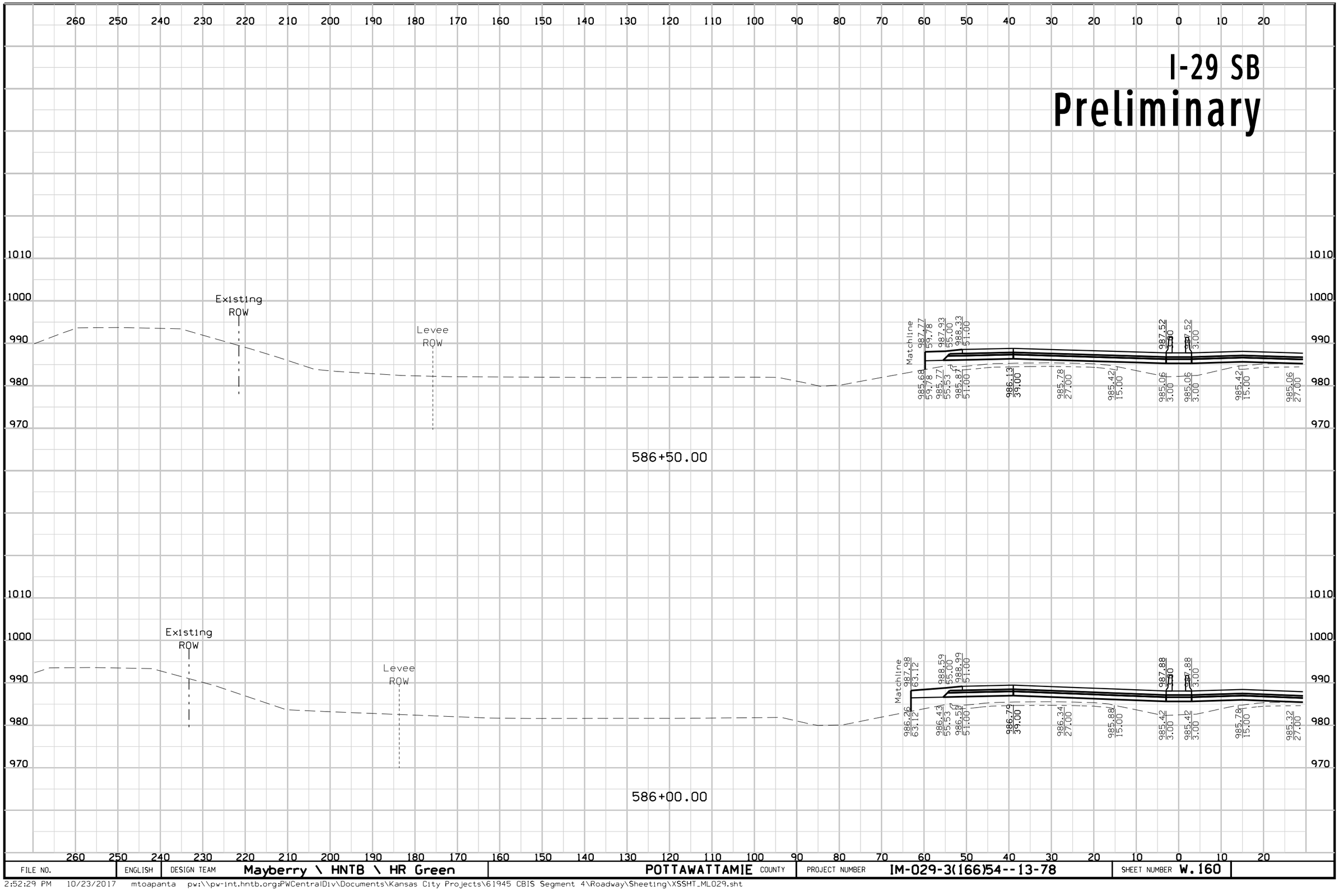
I-29 NB
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER W.159

3:11:57 PM 10/23/2017 mtoapanta pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\XSSHT_ML029.sht

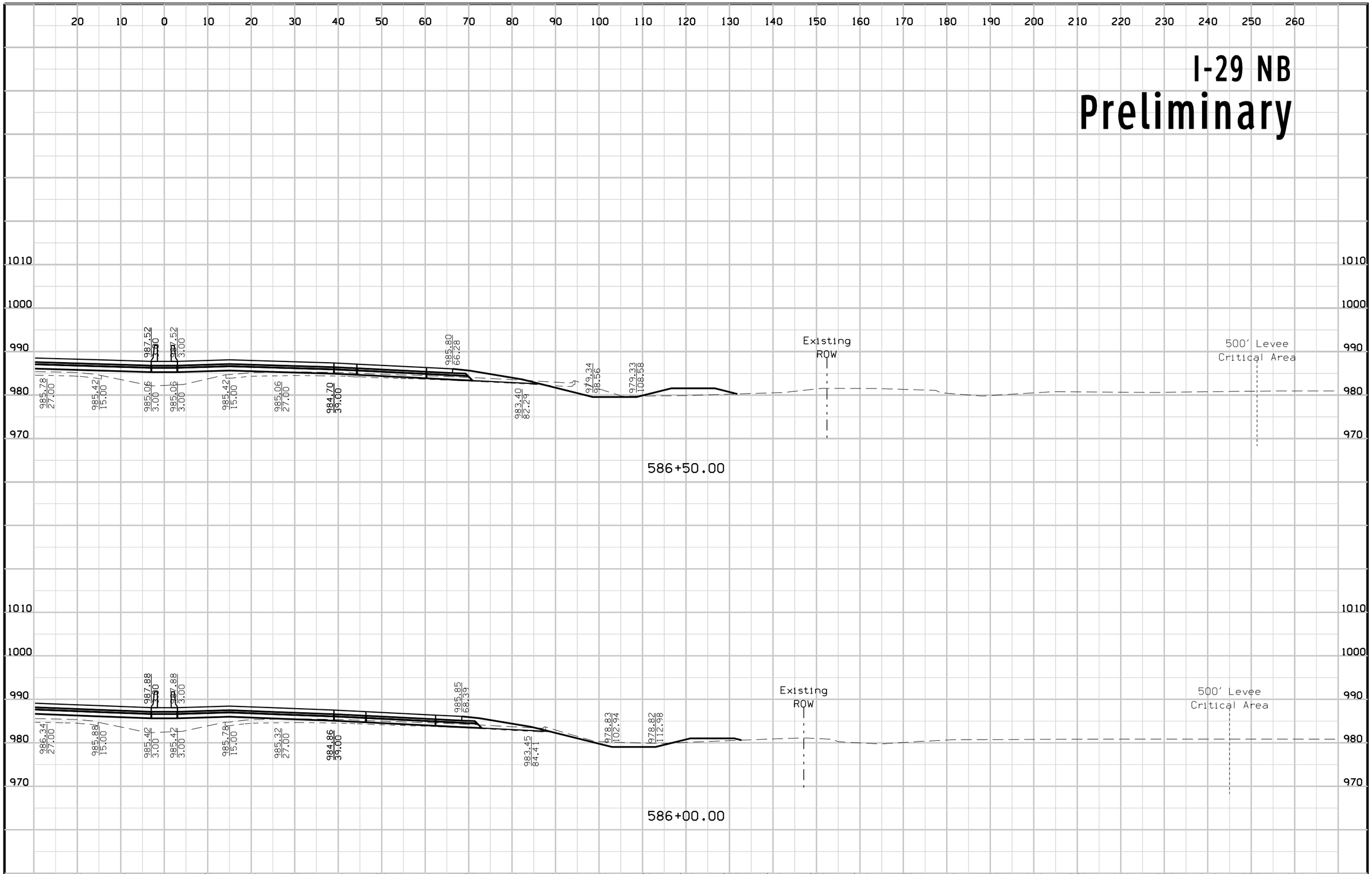
I-29 SB
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER W.160

2:52:29 PM 10/23/2017 mtoapanta pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\XSSHT_ML029.sht

I-29 NB
Preliminary

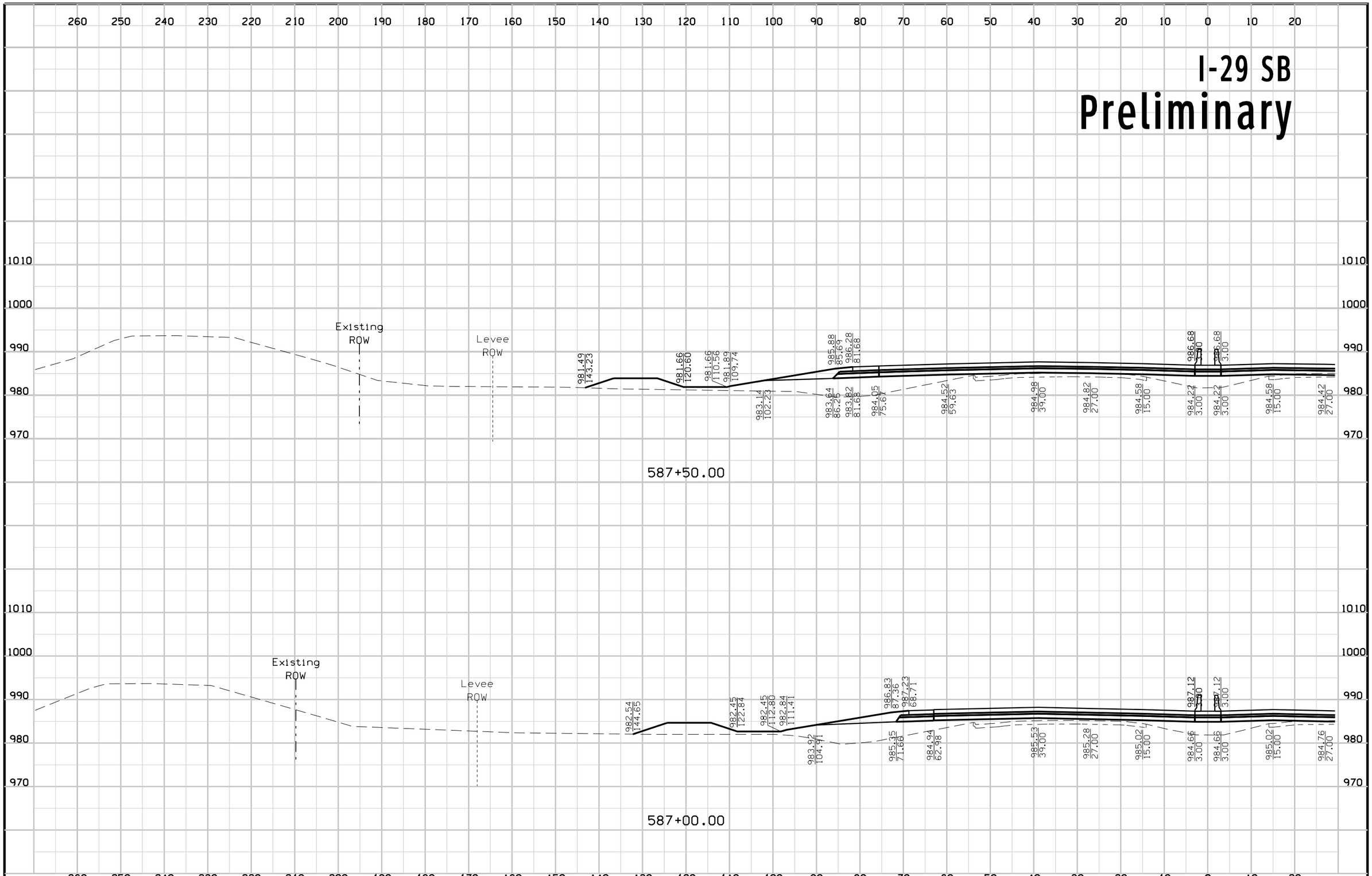


FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER W.161

2:52:32 PM 10/23/2017 mtoapanta pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\XSSHT_ML029.sht

I-29 SB

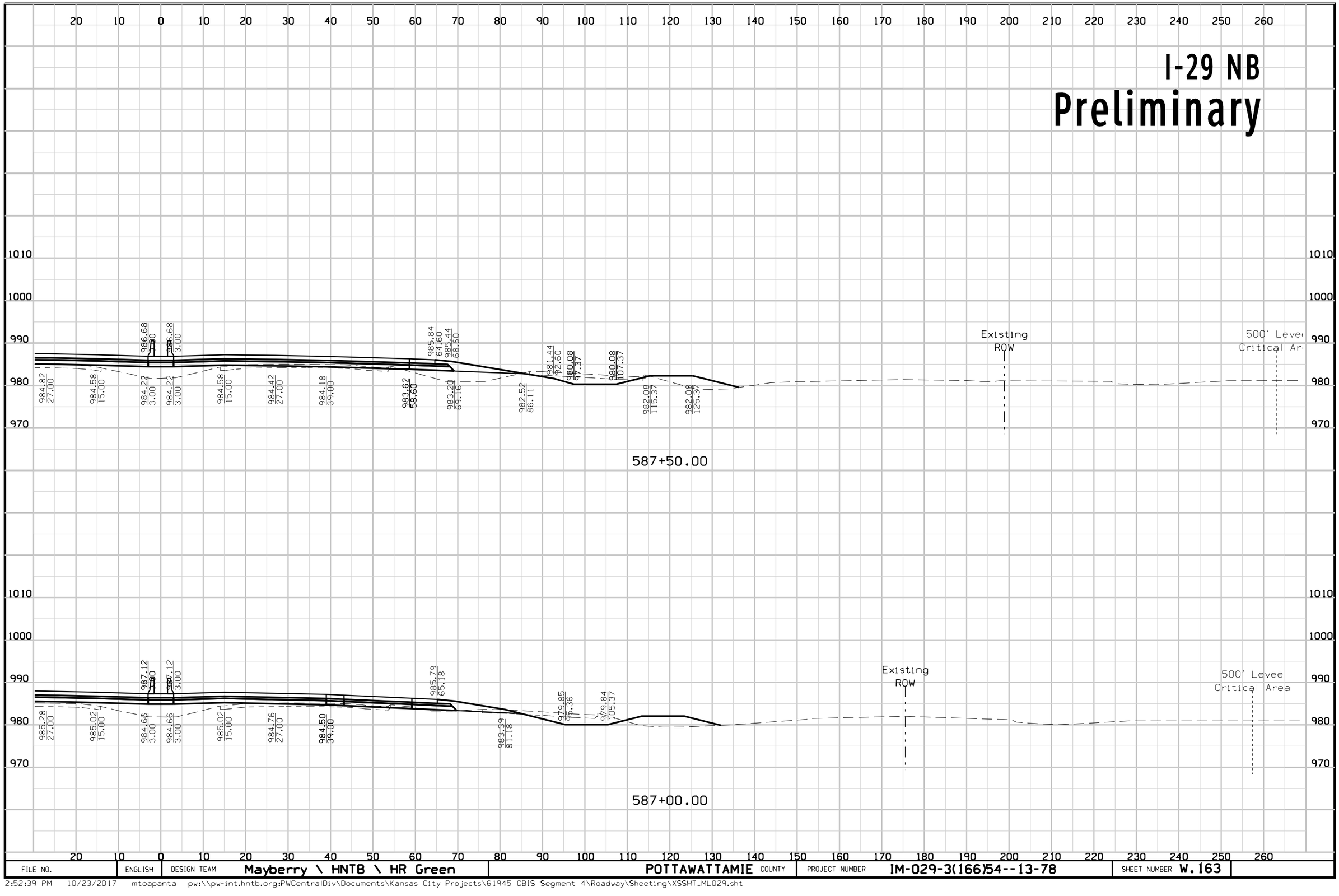
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER W.162

2:52:35 PM 10/23/2017 mtoapanta pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\XSSHT_ML029.sht

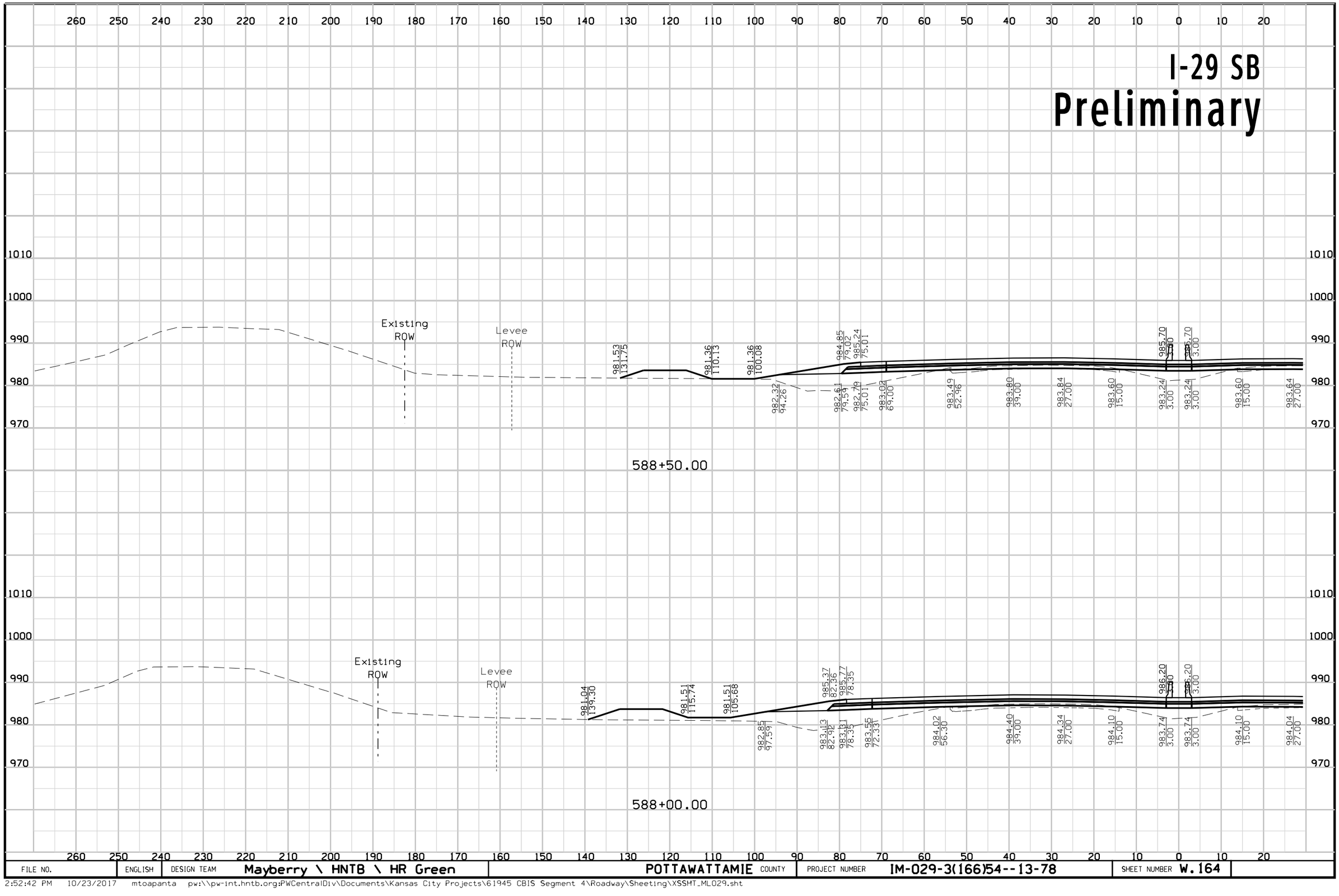
I-29 NB
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER W.163

2:52:39 PM 10/23/2017 mtoapanta pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\XSSHT_ML029.sht

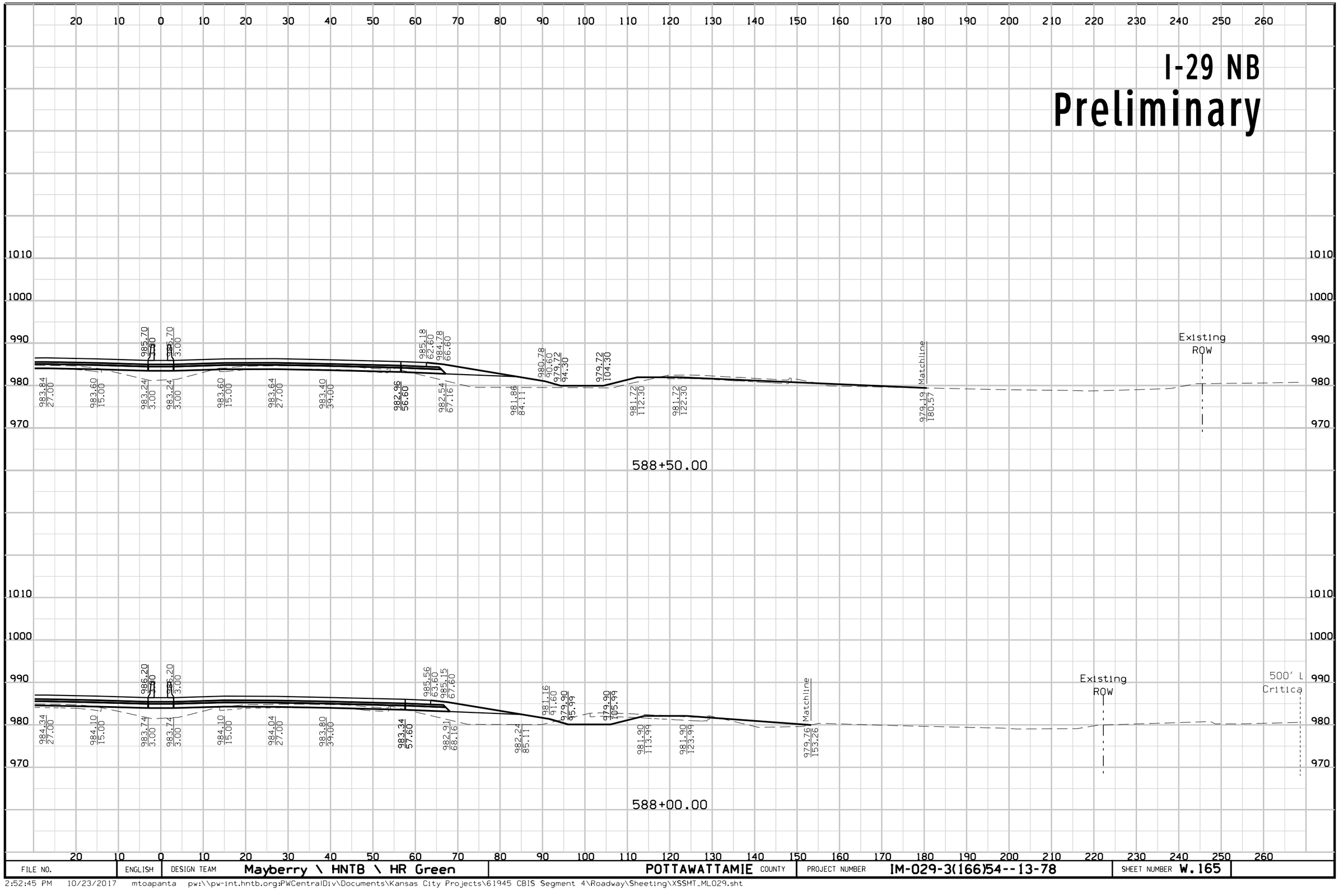
I-29 SB
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER W.164

2:52:42 PM 10/23/2017 mtoapanta pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\XSSHT_ML029.sht

I-29 NB
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER W.165

2:52:45 PM 10/23/2017 mtoapanta pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\XSSHT_ML029.sht

I-29 SB
Preliminary

260 250 240 230 220 210 200 190 180 170 160 150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20

1010
1000
990
980
970

Existing ROW
Levee ROW

981.93 / 118.93
981.06 / 99.45
981.06 / 89.40
983.88 / 72.36
984.28 / 68.35
984.79 / 3.00
984.79 / 3.00
981.36 / 87.59
981.64 / 72.92
981.82 / 68.35
982.06 / 62.33
982.53 / 46.30
982.69 / 39.00
982.93 / 27.00
982.69 / 15.00
982.33 / 3.00
982.33 / 3.00
982.69 / 15.00
982.93 / 27.00

589+50.00

1010
1000
990
980
970

Existing ROW
Levee ROW

981.99 / 124.43
981.21 / 104.65
981.21 / 94.60
984.34 / 75.69
984.74 / 71.68
985.22 / 3.00
985.22 / 3.00
981.82 / 90.92
982.10 / 76.25
982.28 / 71.68
982.52 / 65.67
982.99 / 49.63
983.22 / 39.00
983.36 / 27.00
983.12 / 15.00
982.76 / 3.00
982.76 / 3.00
983.12 / 15.00
983.27 / 27.00

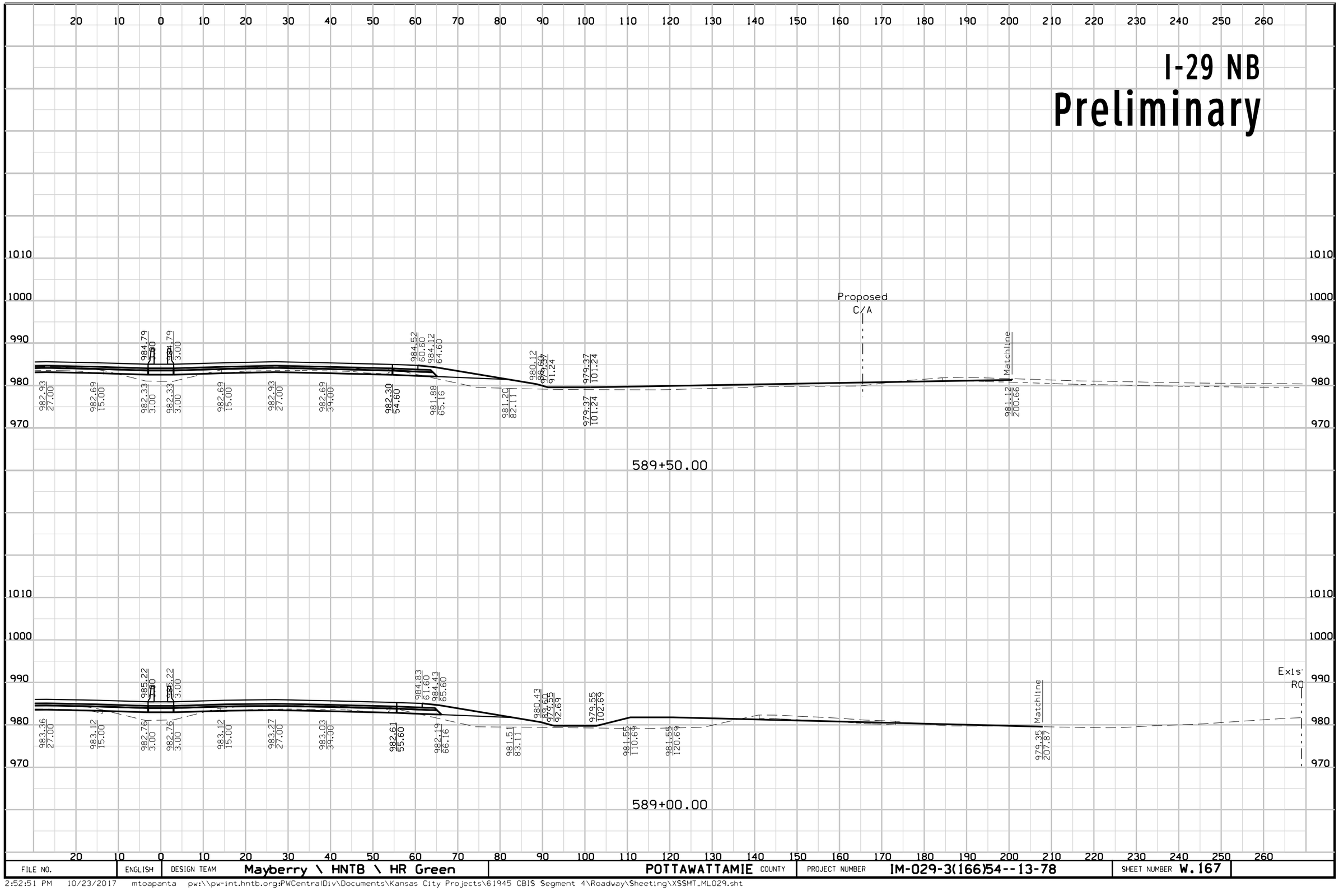
589+00.00

260 250 240 230 220 210 200 190 180 170 160 150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20

FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER W.166

2:52:48 PM 10/23/2017 mtoapanta pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\XSSHT_ML029.sht

I-29 NB
Preliminary

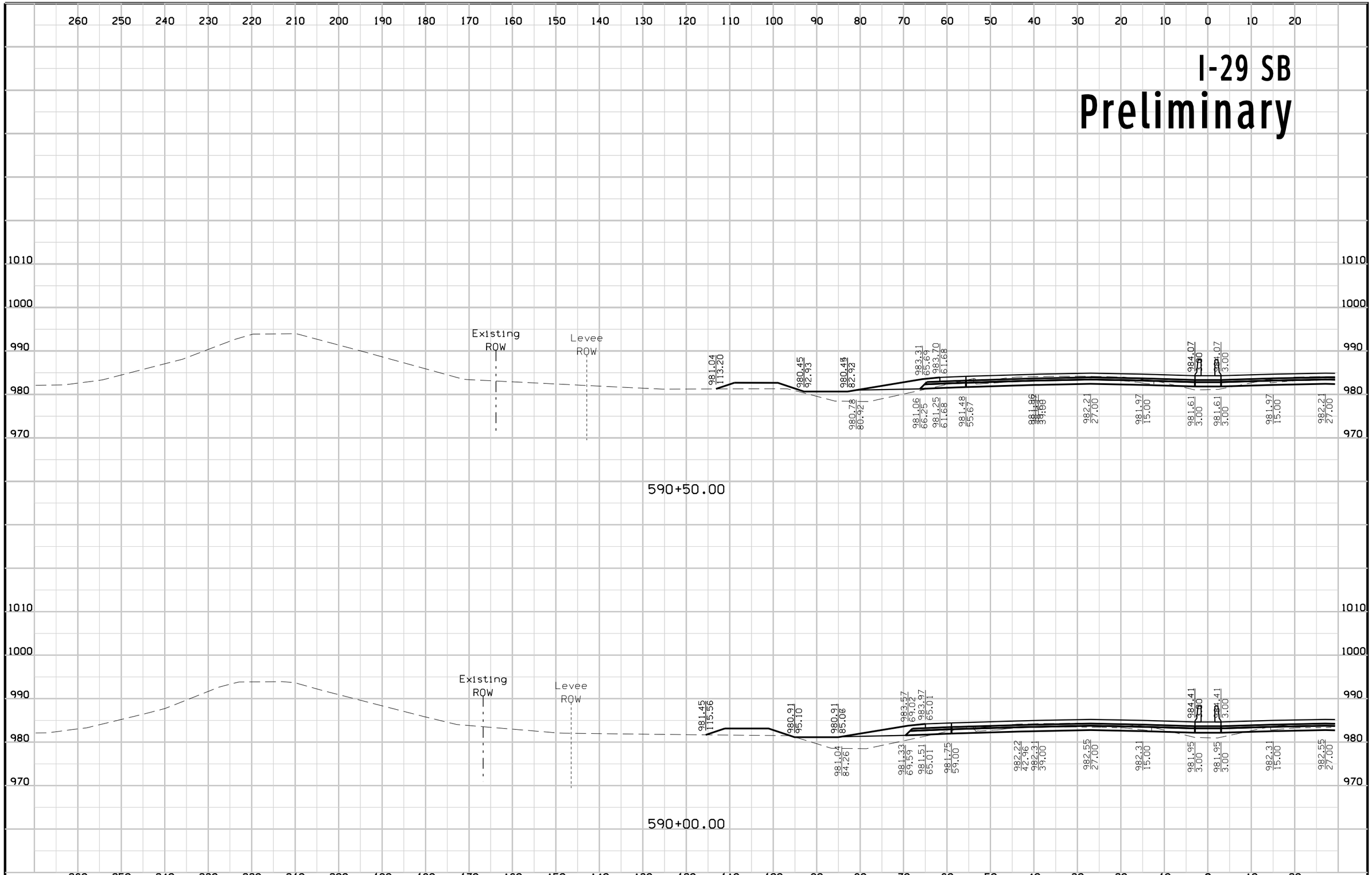


FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER W.167

2:52:51 PM 10/23/2017 mtoapanta pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\XSSHT_ML029.sht

I-29 SB

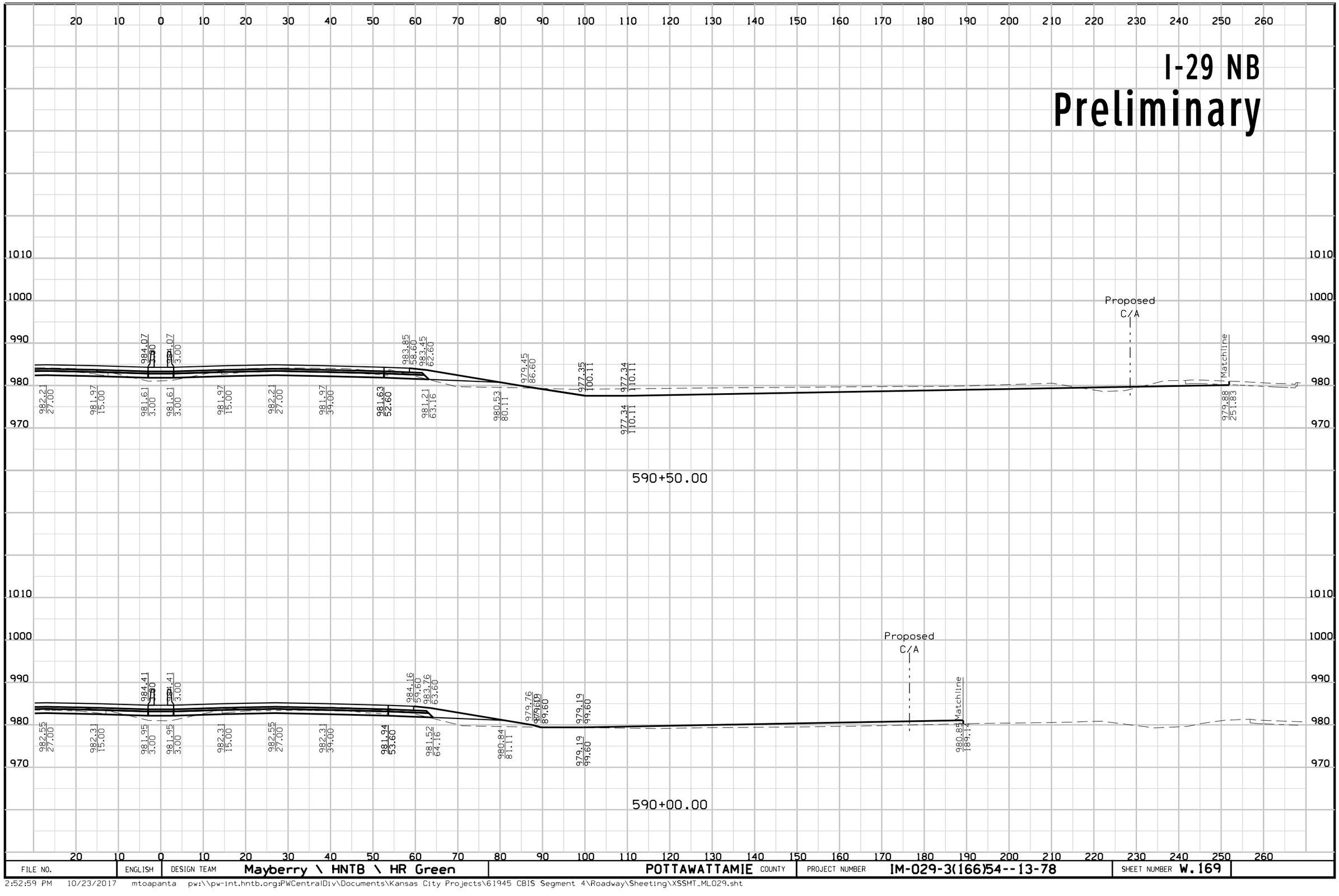
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER W.168

2:52:55 PM 10/23/2017 mtoapanta pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\XSSHT_ML029.sht

I-29 NB
Preliminary

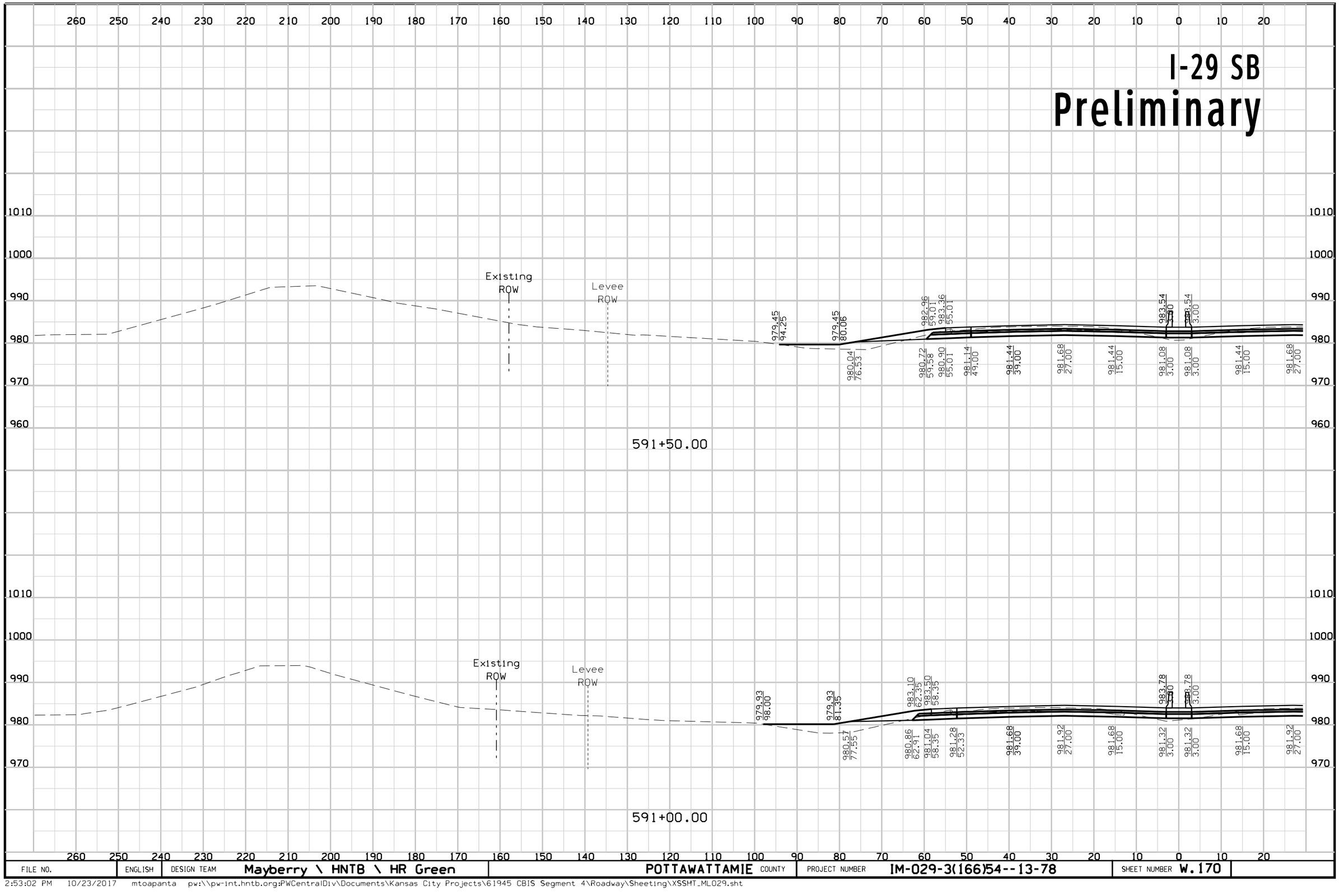


FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER W.169

2:52:59 PM 10/23/2017 mtoapanta pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\XSSHT_ML029.sht

I-29 SB

Preliminary

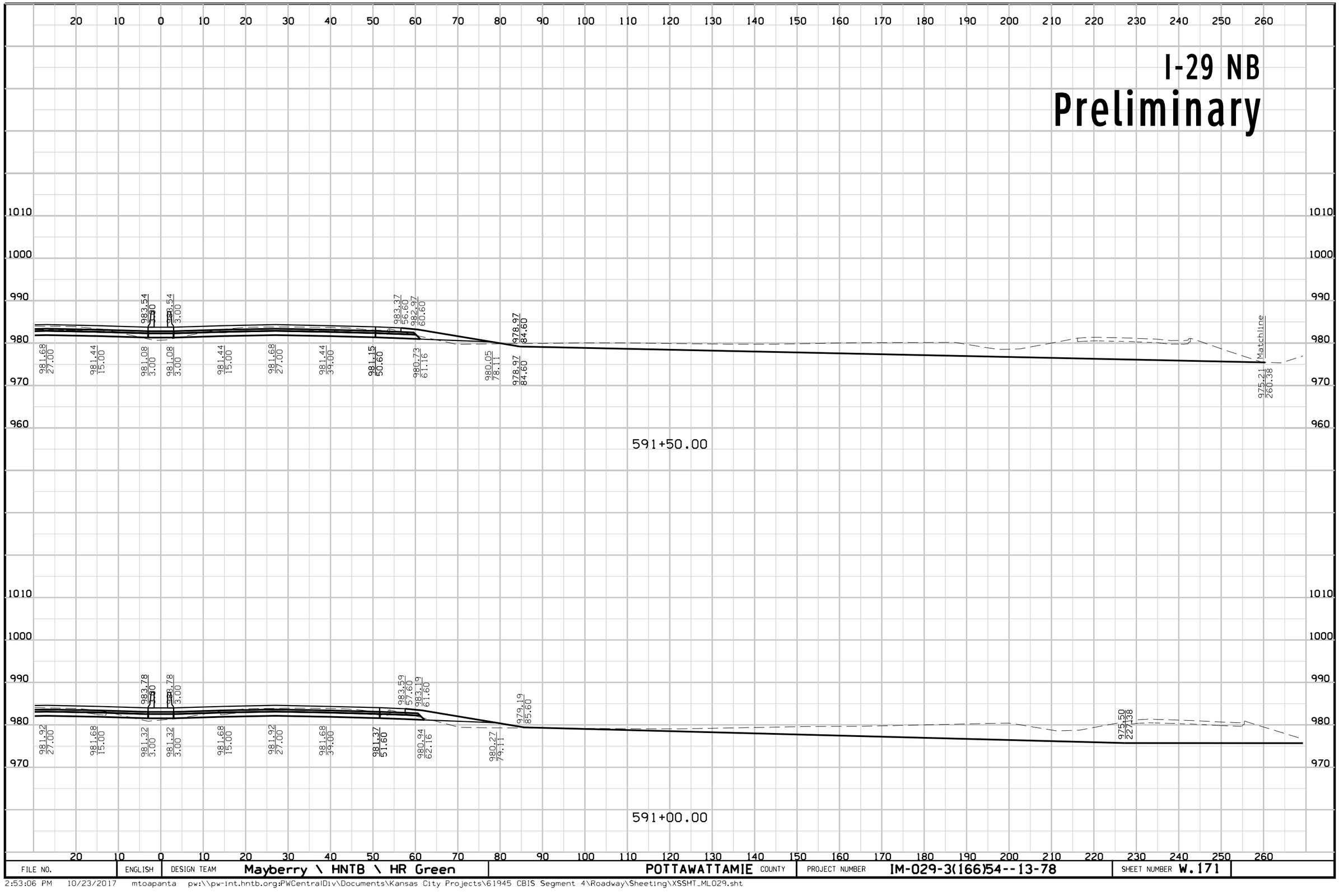


FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER W.170

2:53:02 PM 10/23/2017 mtoapanta pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\XSSHT_ML029.sht

I-29 NB

Preliminary



FILE NO.	ENGLISH	DESIGN TEAM				
			Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER IM-029-3(166)54--13-78	SHEET NUMBER W.171

2:53:06 PM 10/23/2017 mtoapanta pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\XSSHT_ML029.sht

I-29 SB
Preliminary

260 250 240 230 220 210 200 190 180 170 160 150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20

1010 1000 990 980 970 960

Existing ROW

Levee ROW

978.48 89.11

978.48 78.06

979.69 72.51

982.61 55.00

983.01 51.00

980.37 55.56

980.55 51.00

980.90 42.33

981.00 39.00

981.24 27.00

981.00 15.00

983.10 3.00

980.64 3.00

983.10 3.00

980.64 3.00

981.00 15.00

981.24 27.00

592+50.00

978.97 91.17

978.97 78.90

979.92 73.19

982.84 55.68

983.24 51.68

980.60 56.24

980.78 51.68

981.02 45.67

981.22 39.00

981.46 27.00

981.22 15.00

983.32 3.00

980.86 3.00

983.32 3.00

980.86 3.00

981.22 15.00

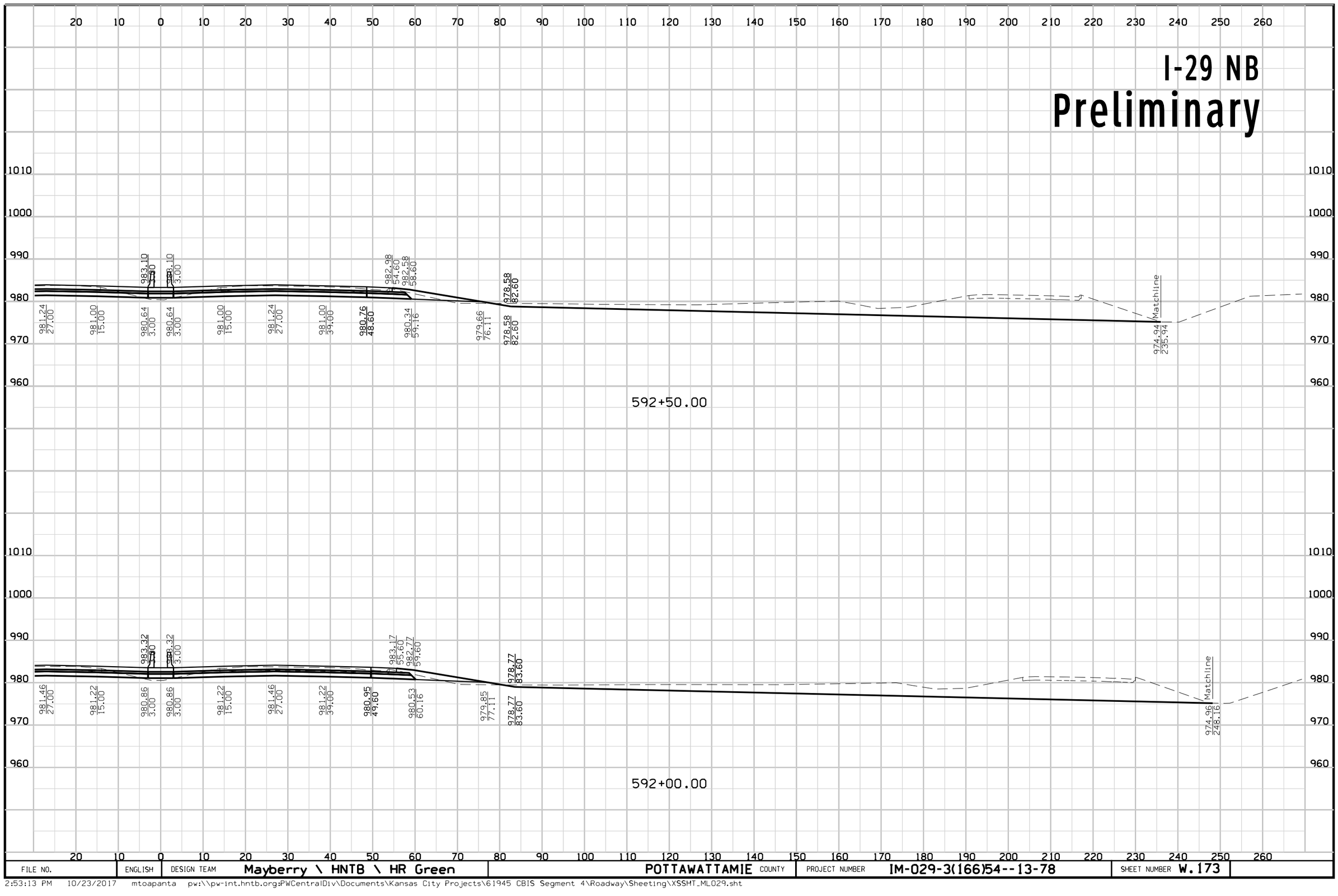
981.46 27.00

592+00.00

FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER W.172

2:53:10 PM 10/23/2017 mtoapanta pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\XSSHT_ML029.sht

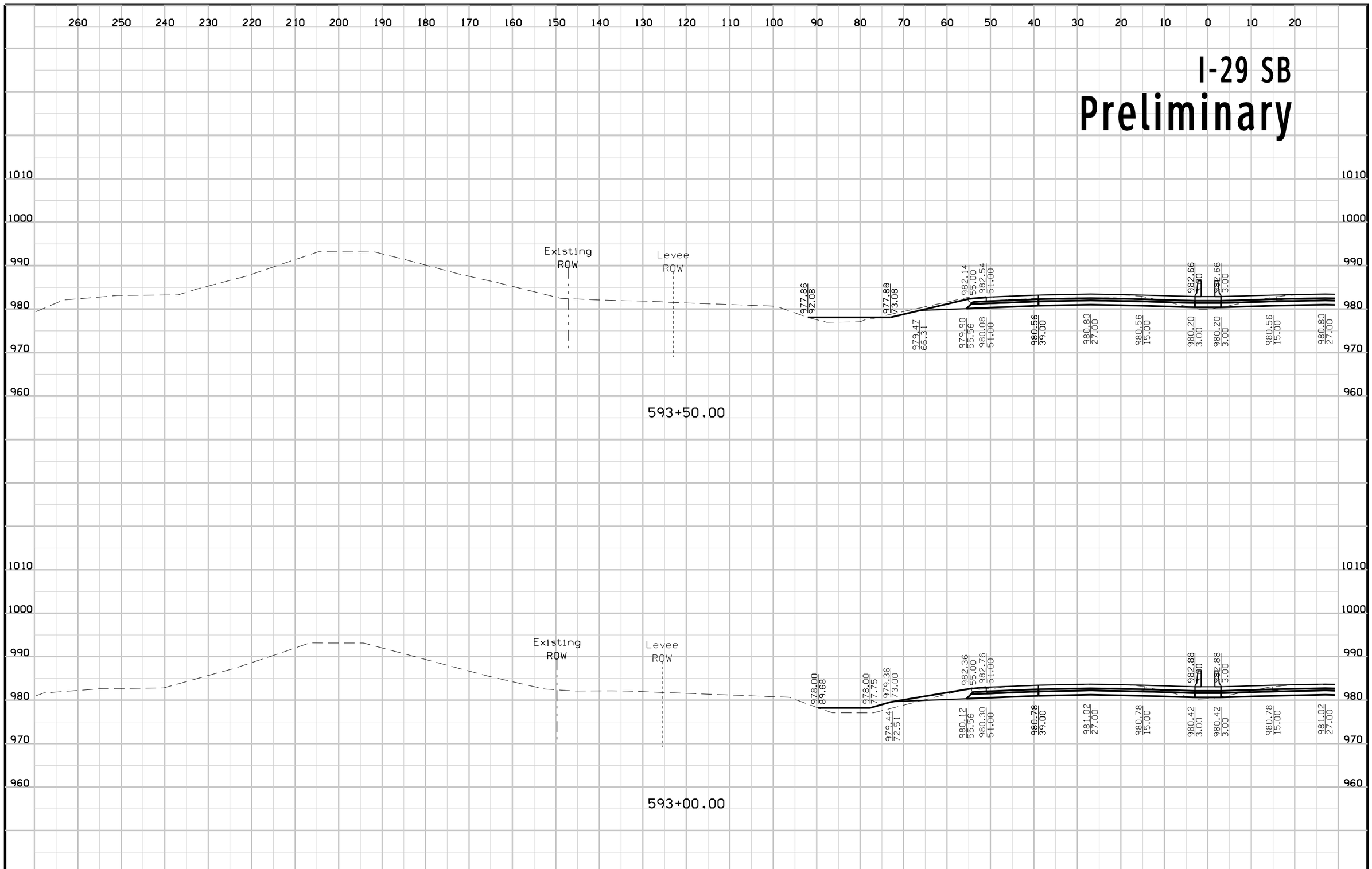
I-29 NB
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM		COUNTY	PROJECT NUMBER	SHEET NUMBER
		Mayberry \ HNTB \ HR Green	POTTAWATTAMIE		IM-029-3(166)54--13-78	W.173

2:53:13 PM 10/23/2017 mtoapanta pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\XSSHT_ML029.sht

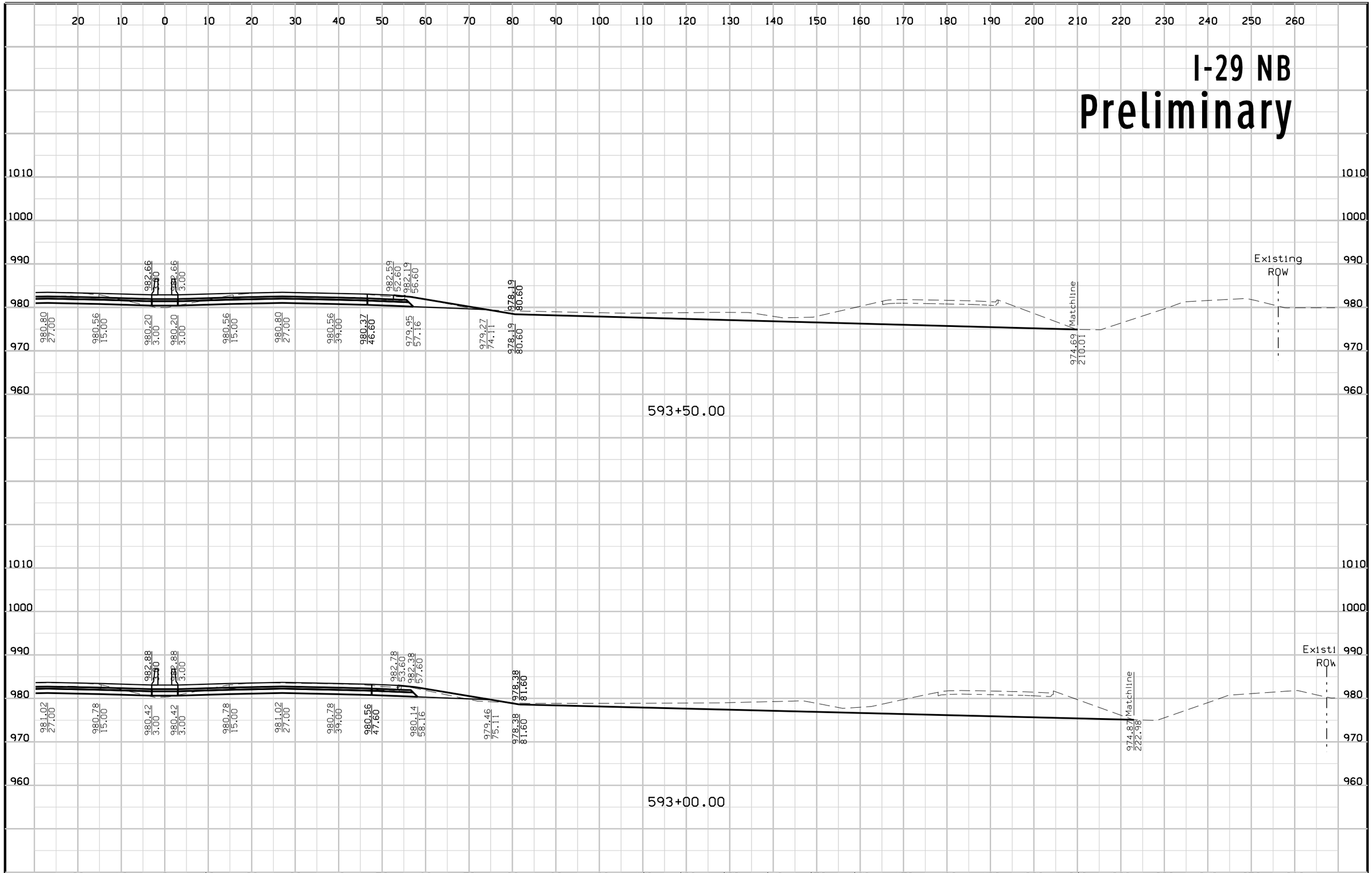
I-29 SB
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER W.174

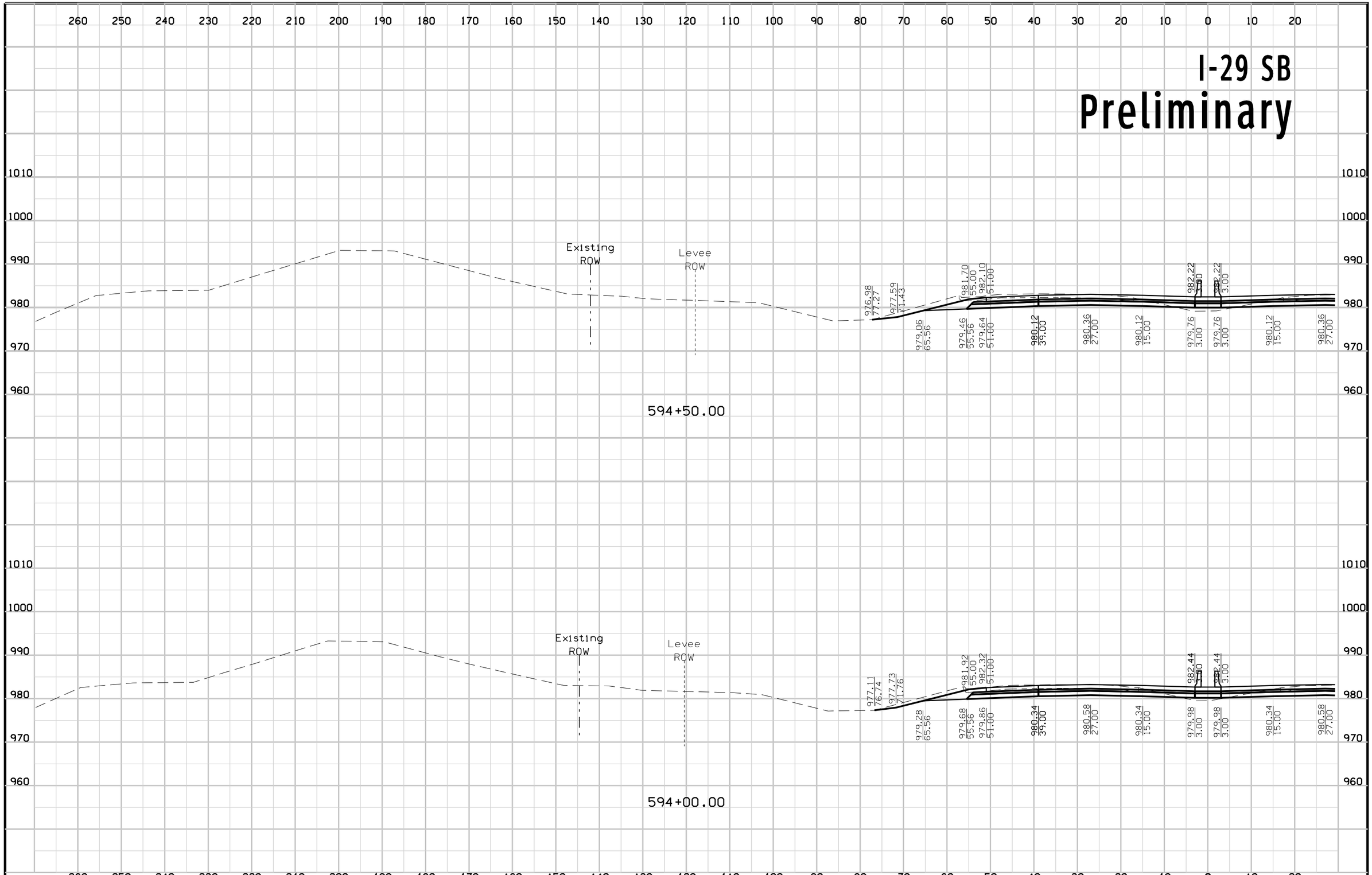
2:53:17 PM 10/23/2017 mtoapanta pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\XSSHT_ML029.sht

I-29 NB
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM		COUNTY	PROJECT NUMBER	SHEET NUMBER
		Mayberry \ HNTB \ HR Green	POTTAWATTAMIE		IM-029-3(166)54--13-78	W.175

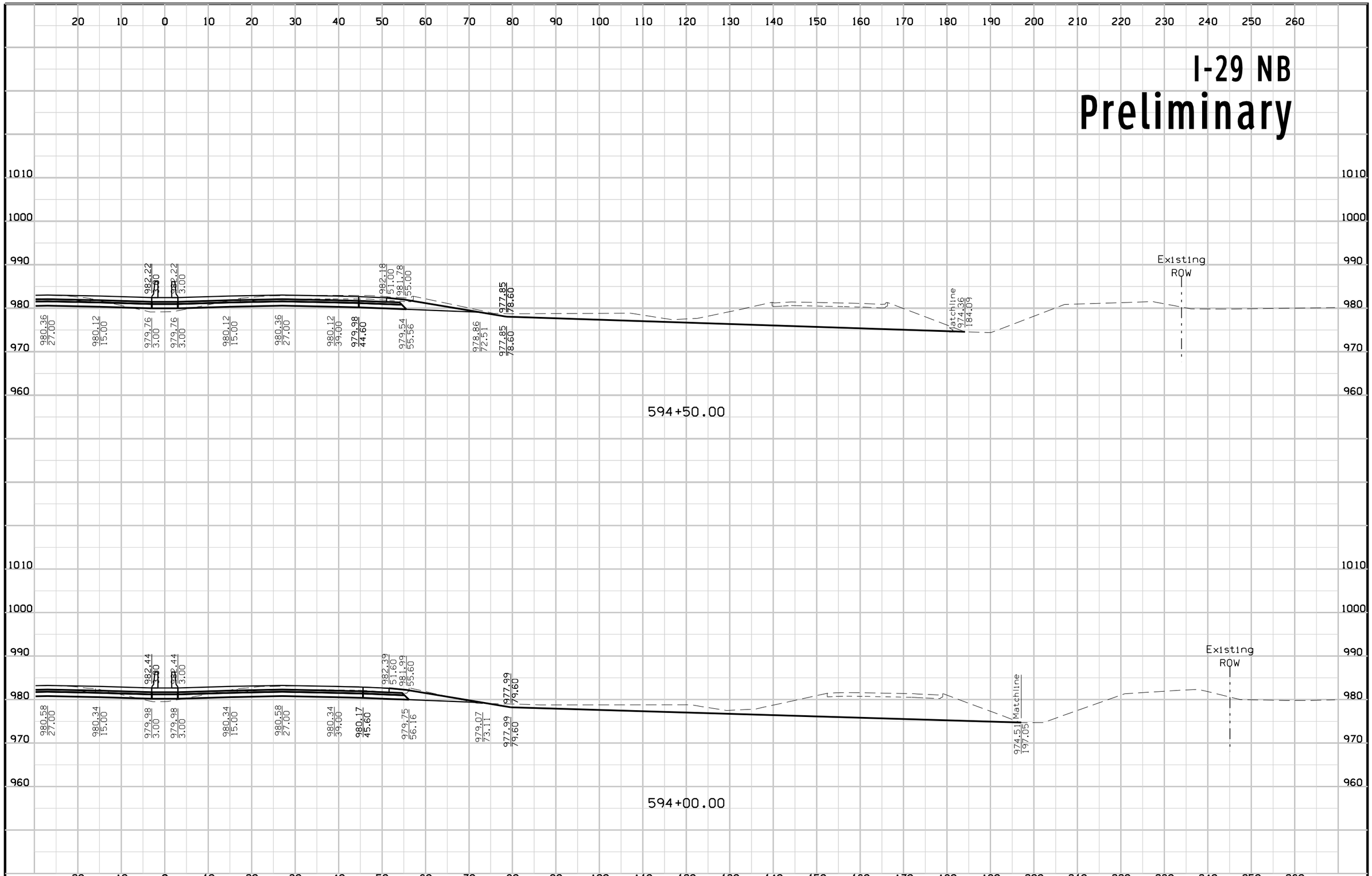
I-29 SB
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER W.176

2:53:24 PM 10/23/2017 mtoapanta pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\XSSHT_ML029.sht

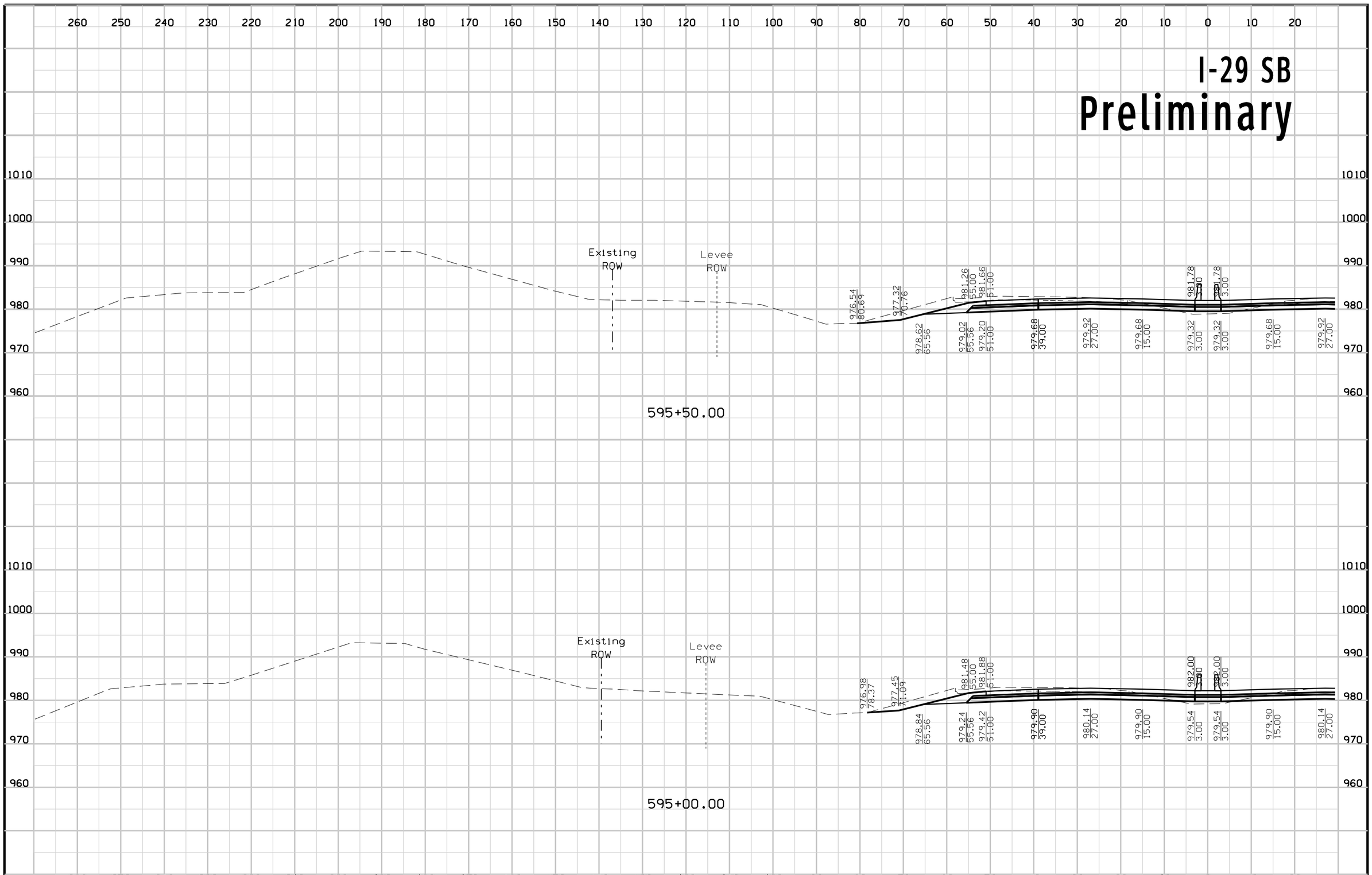
I-29 NB
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER W.177

2:53:27 PM 10/23/2017 mtoapanta pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\XSSHT_ML029.sht

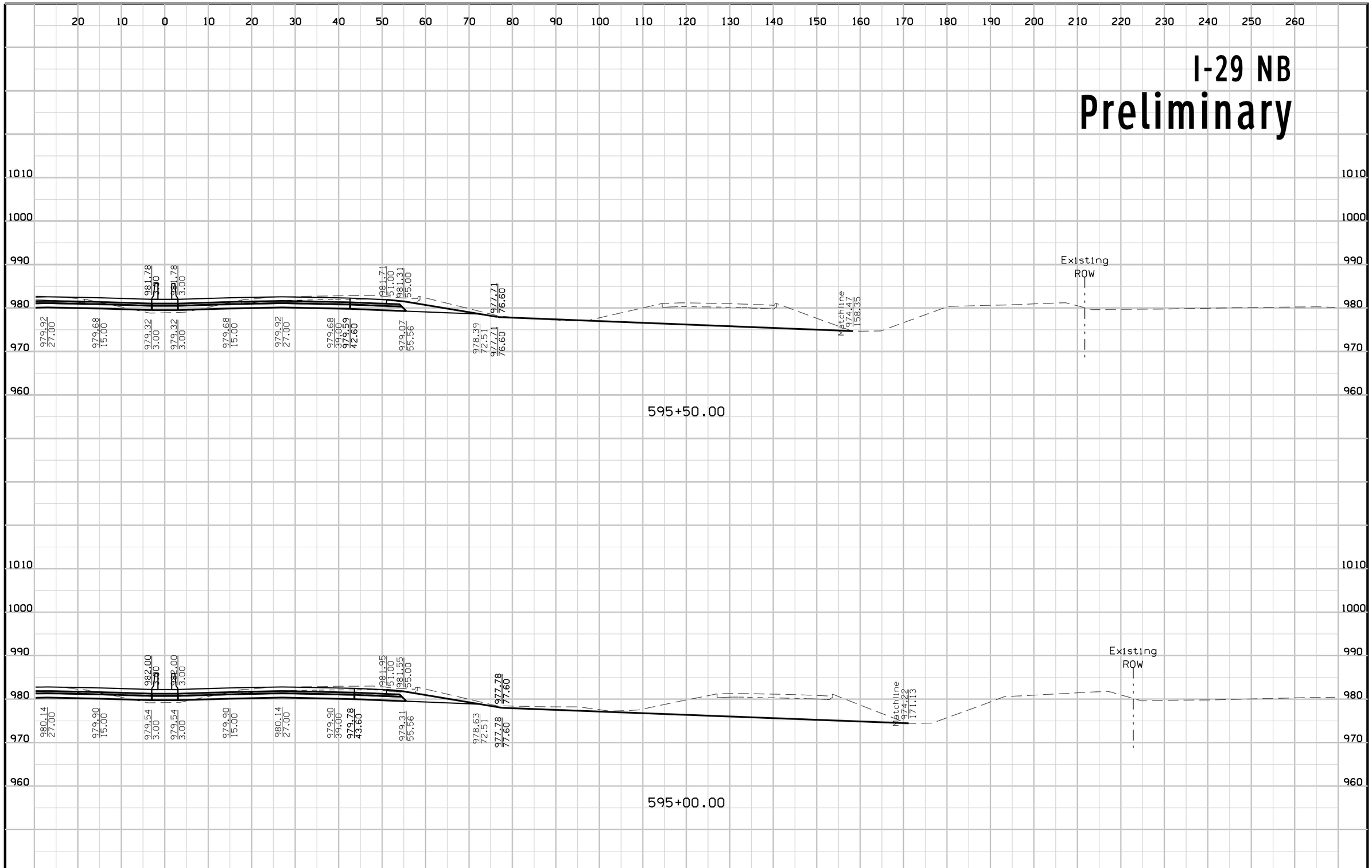
I-29 SB
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER W.178

2:53:31 PM 10/23/2017 mtoapanta pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\XSSHT_ML029.sht

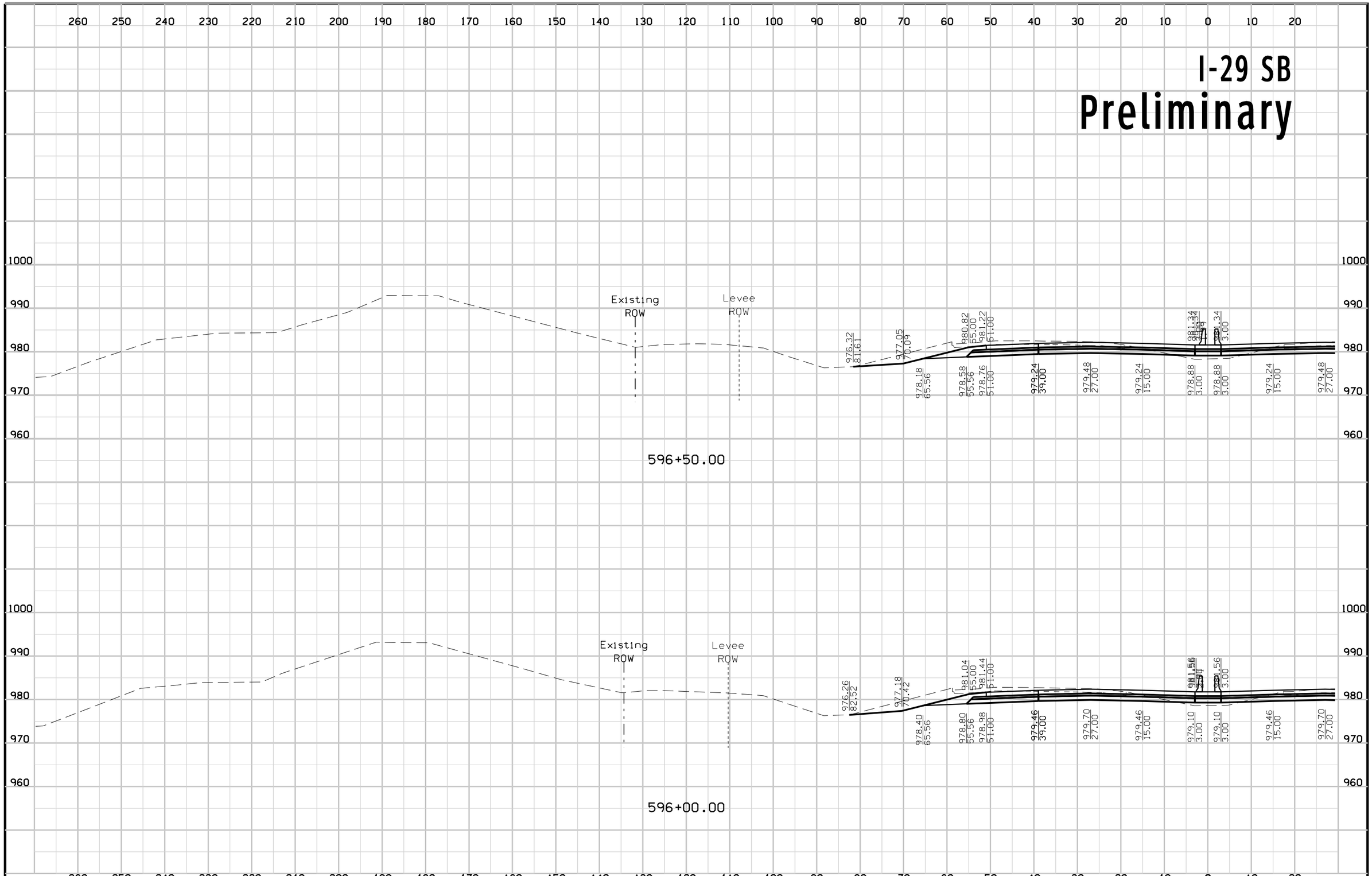
I-29 NB
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM				
		Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER IM-029-3(166)54--13-78	SHEET NUMBER W.179	

2:53:34 PM 10/23/2017 mtoapanta pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\XSSHT_ML029.sht

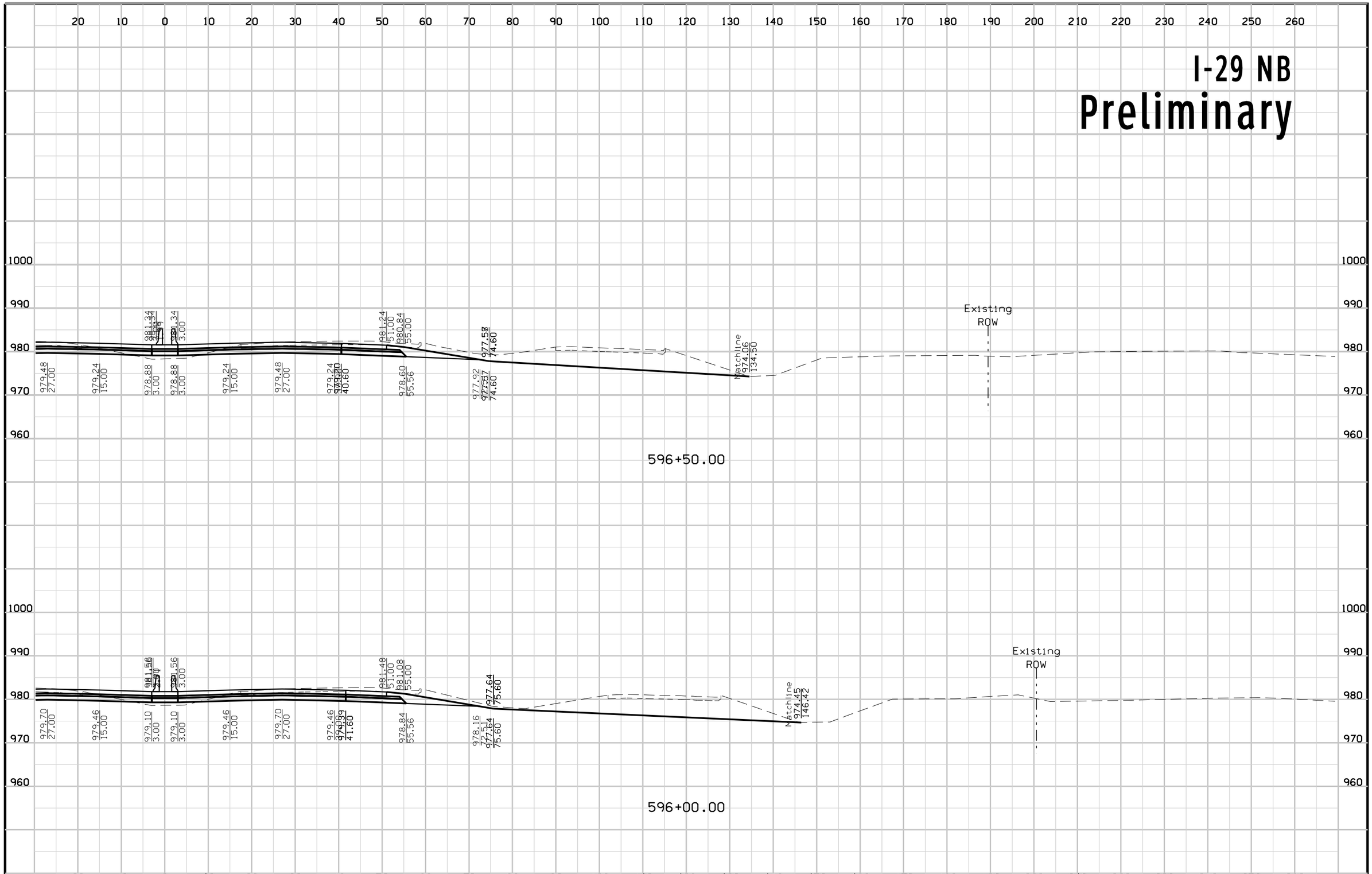
I-29 SB
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER W.180

2:53:37 PM 10/23/2017 mtoapanta pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\XSSHT_ML029.sht

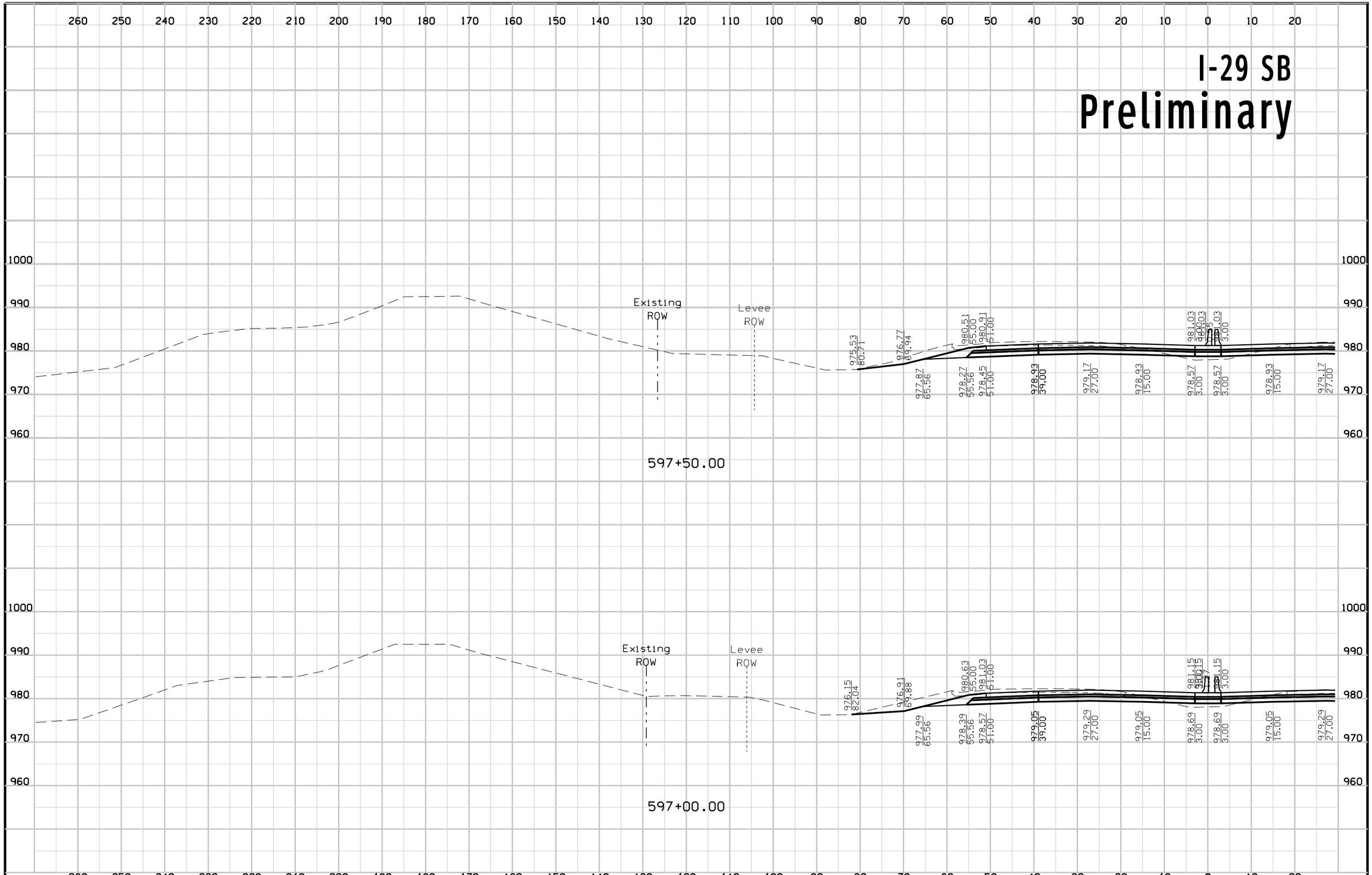
I-29 NB
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER W.181

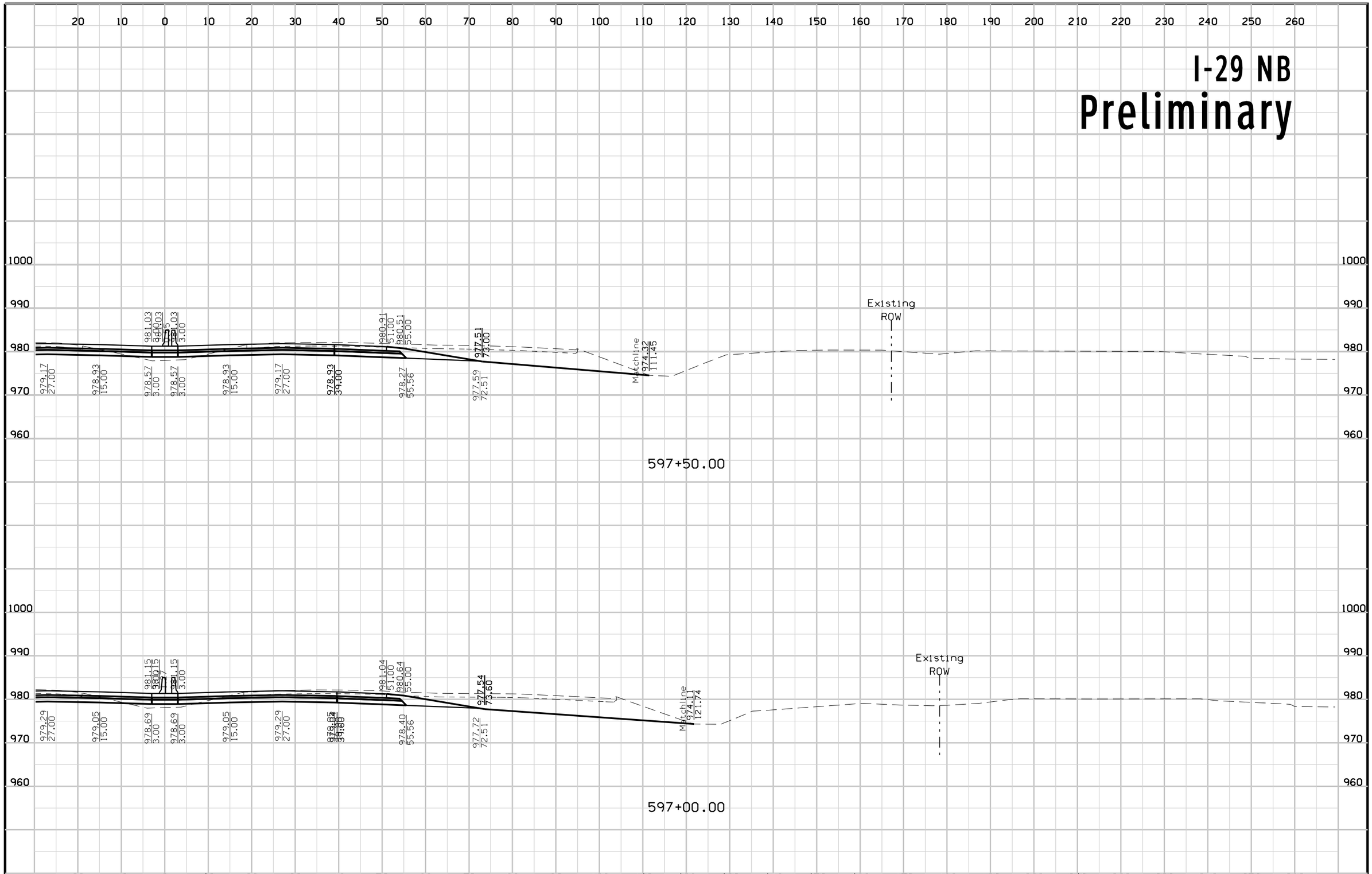
2:53:40 PM 10/23/2017 mtoapanta pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\XSSHT_ML029.sht

I-29 SB
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER W.182

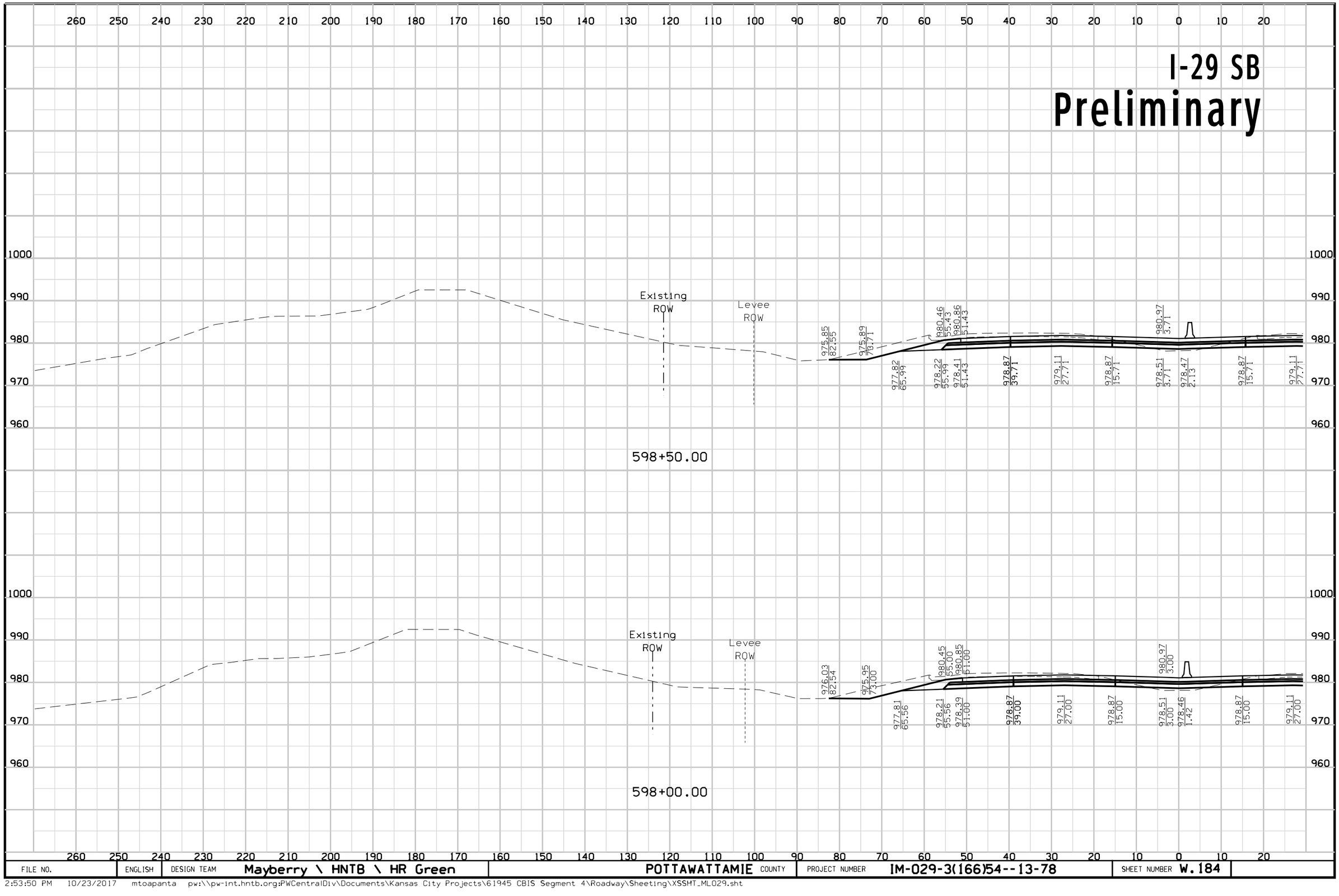
I-29 NB
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER W.183

2:53:47 PM 10/23/2017 mtoapanta pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\XSSHT_ML029.sht

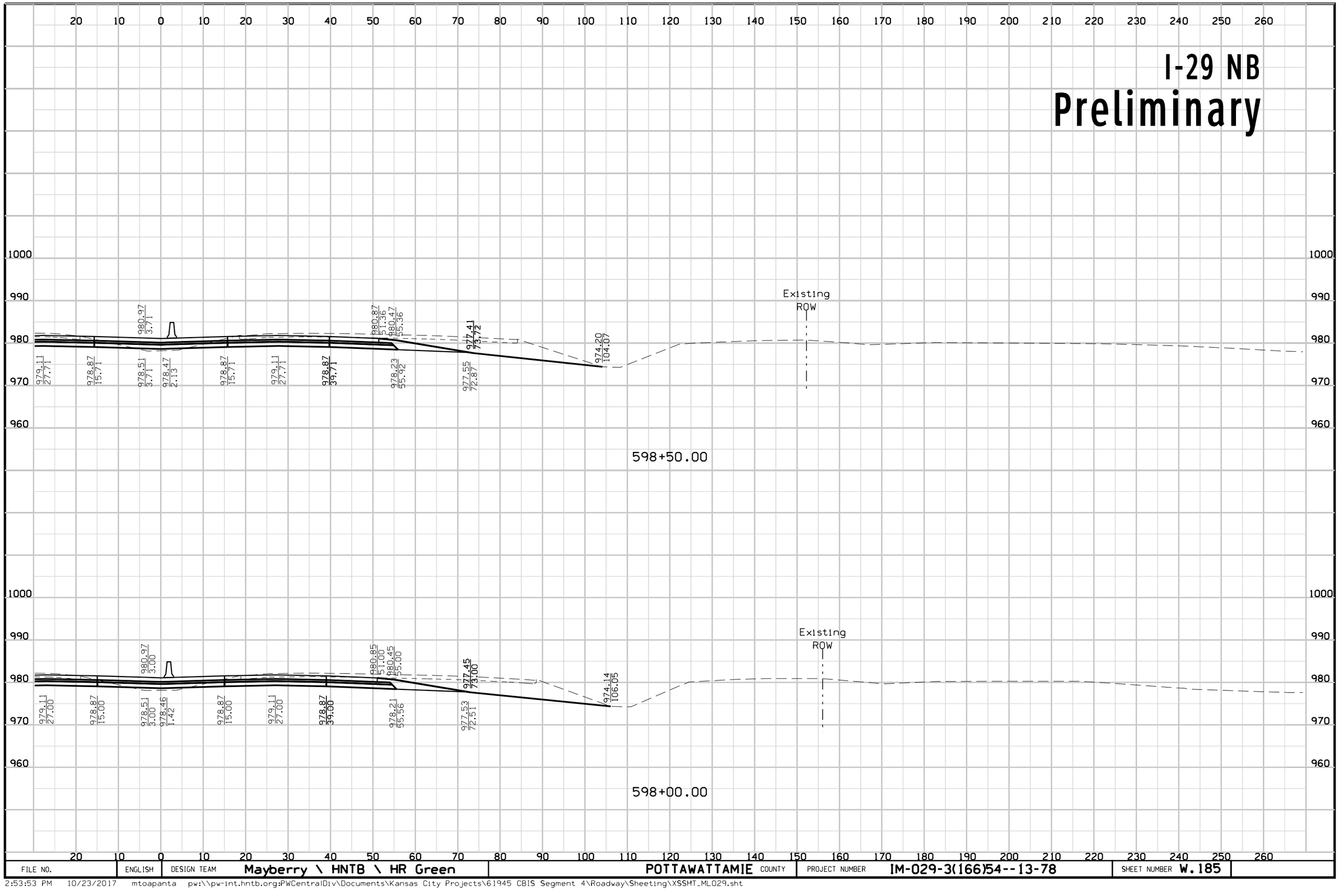
I-29 SB
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER W.184

2:53:50 PM 10/23/2017 mtoapanta pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\XSSHT_ML029.sht

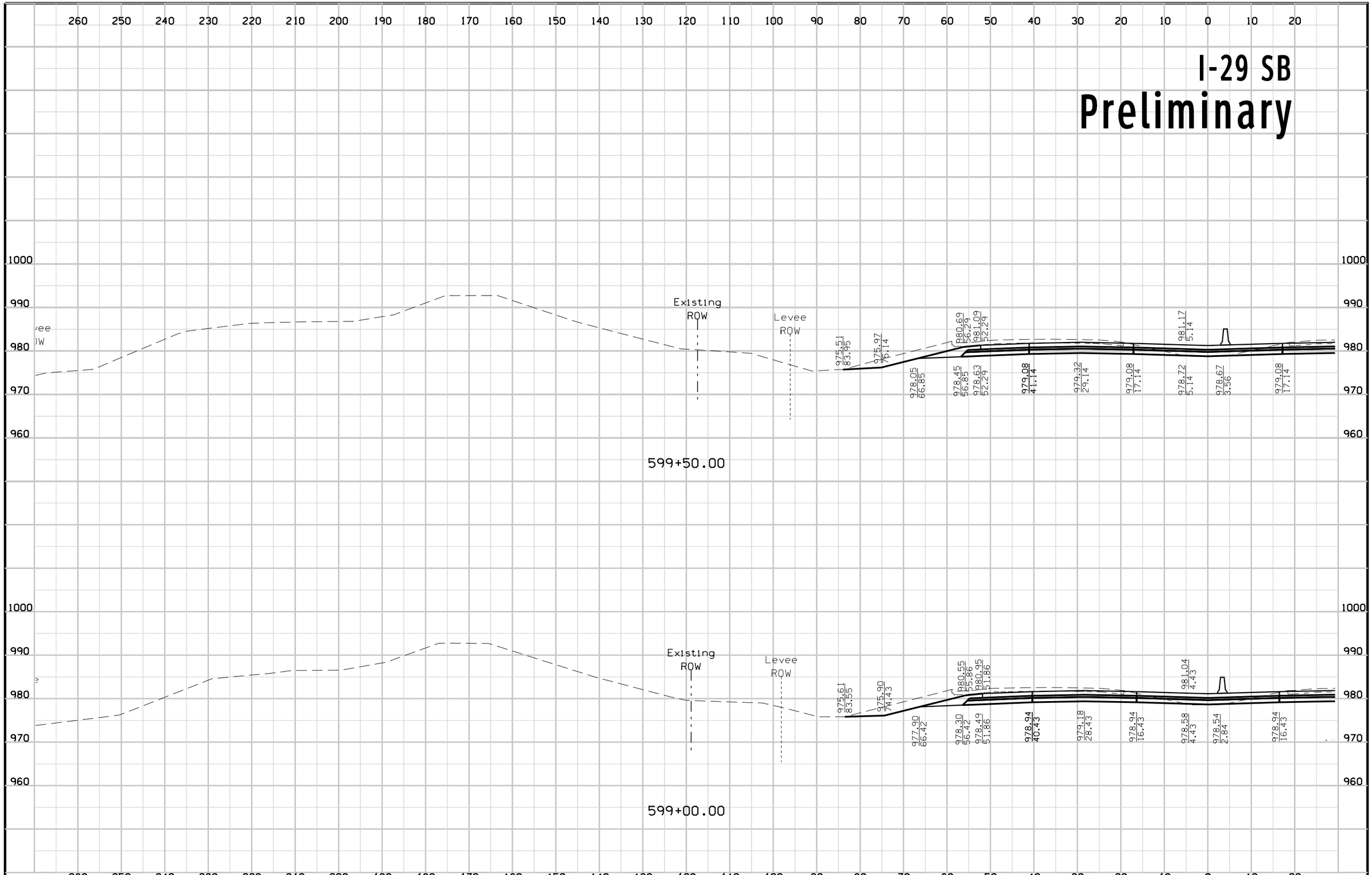
I-29 NB
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER W.185

2:53:53 PM 10/23/2017 mtoapanta pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\XSSHT_ML029.sht

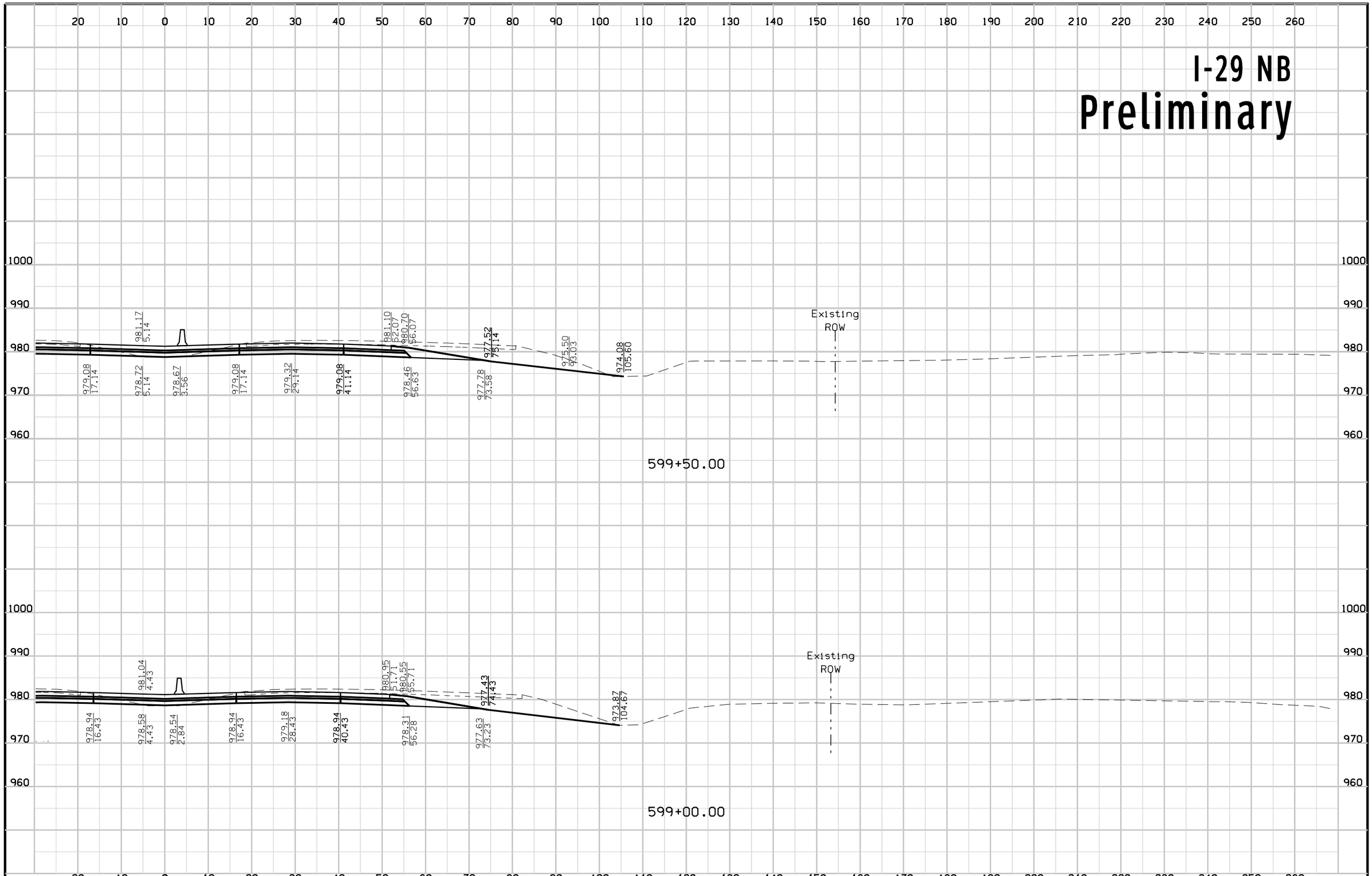
I-29 SB
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER W.186

2:53:57 PM 10/23/2017 mtoapanta pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\XSSHT_ML029.sht

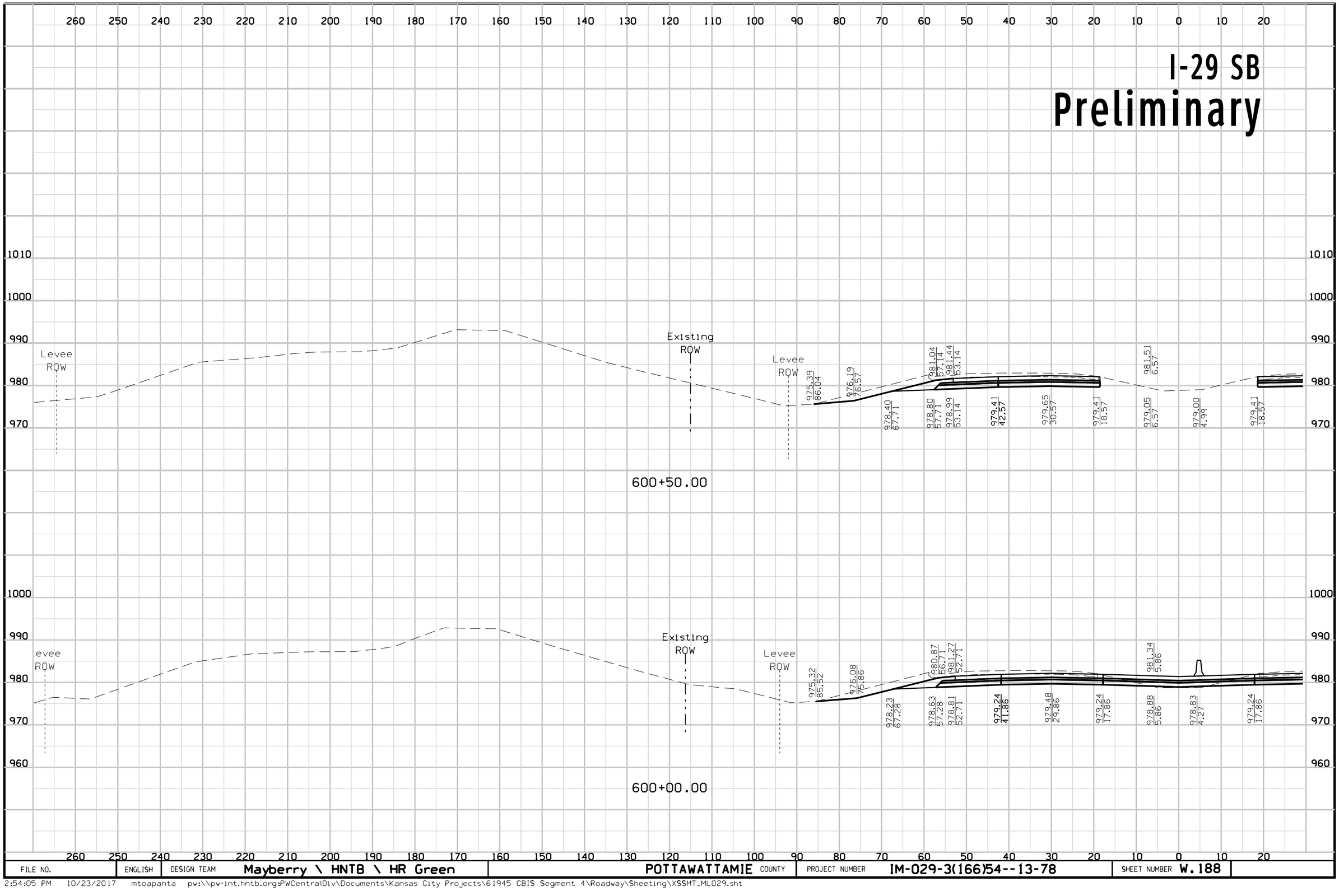
I-29 NB
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER W.187

2:54:01 PM 10/23/2017 mtoapanta pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\XSSHT_ML029.sht

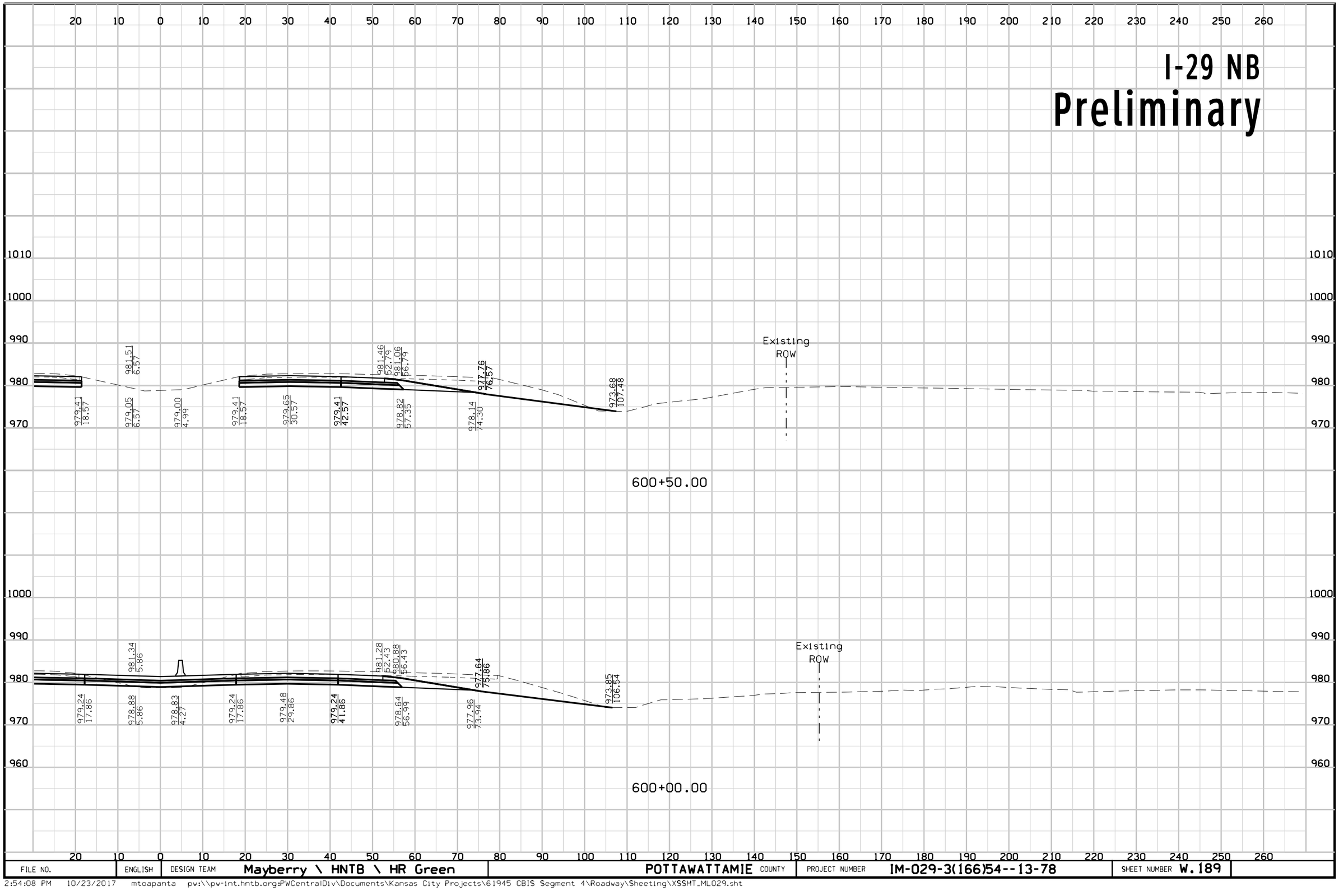
I-29 SB
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER W.188

2:54:05 PM 10/23/2017 mtoapanta pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\XSSHT_ML029.sht

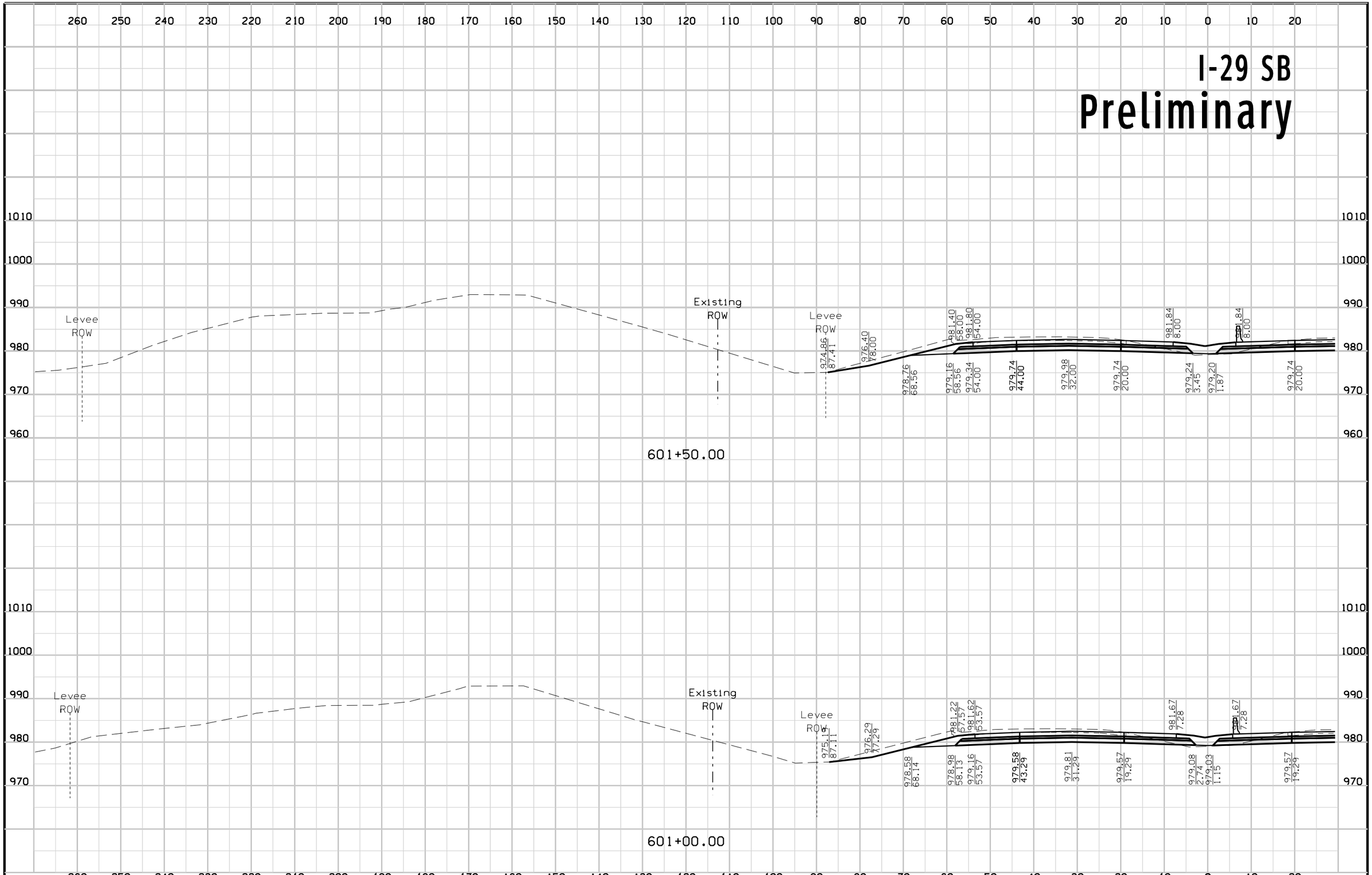
I-29 NB
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER W.189

2:54:08 PM 10/23/2017 mtoapanta pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\XSSHT_ML029.sht

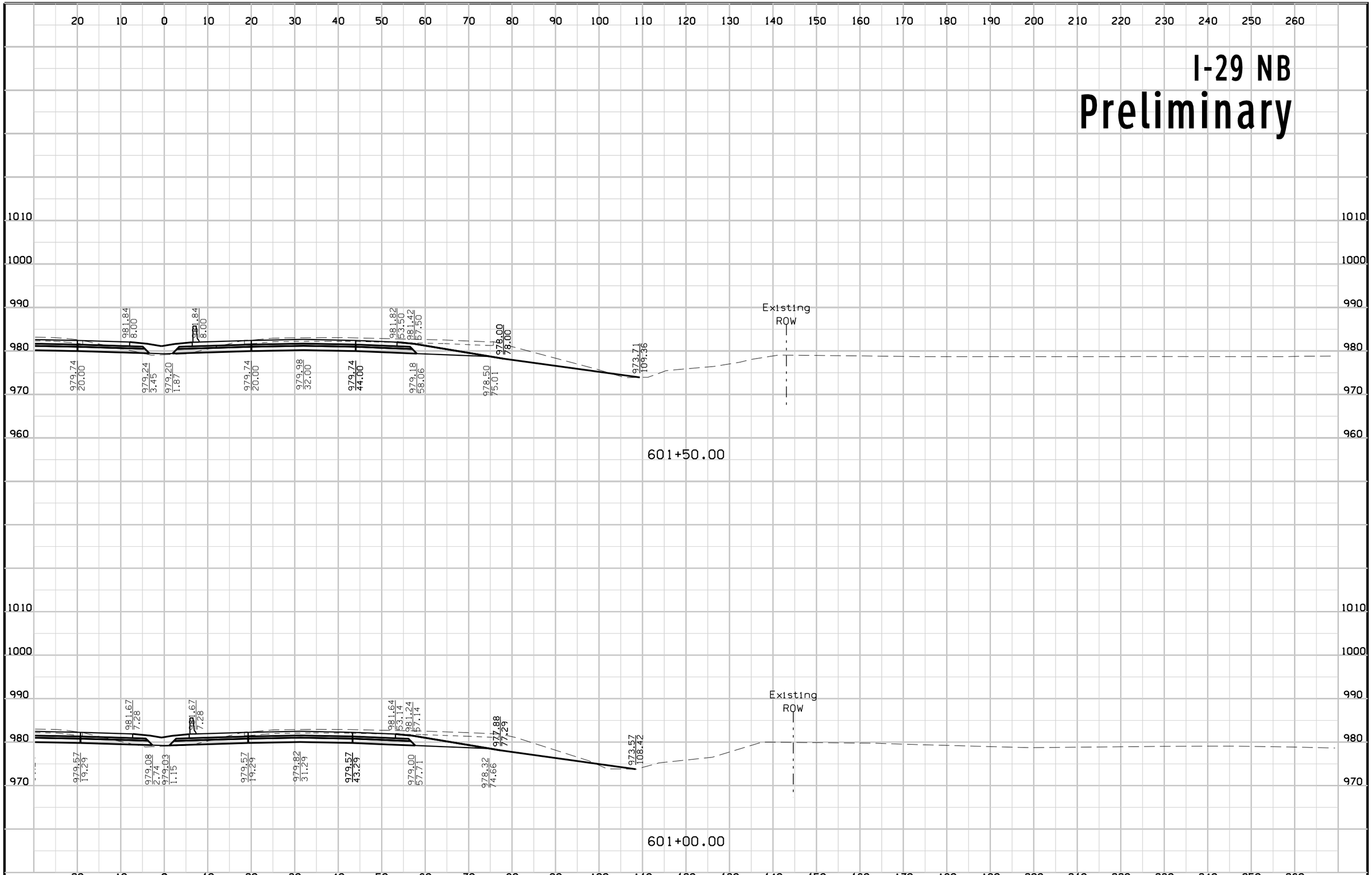
I-29 SB
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER W.190

2:54:12 PM 10/23/2017 mtoapanta pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\XSSHT_ML029.sht

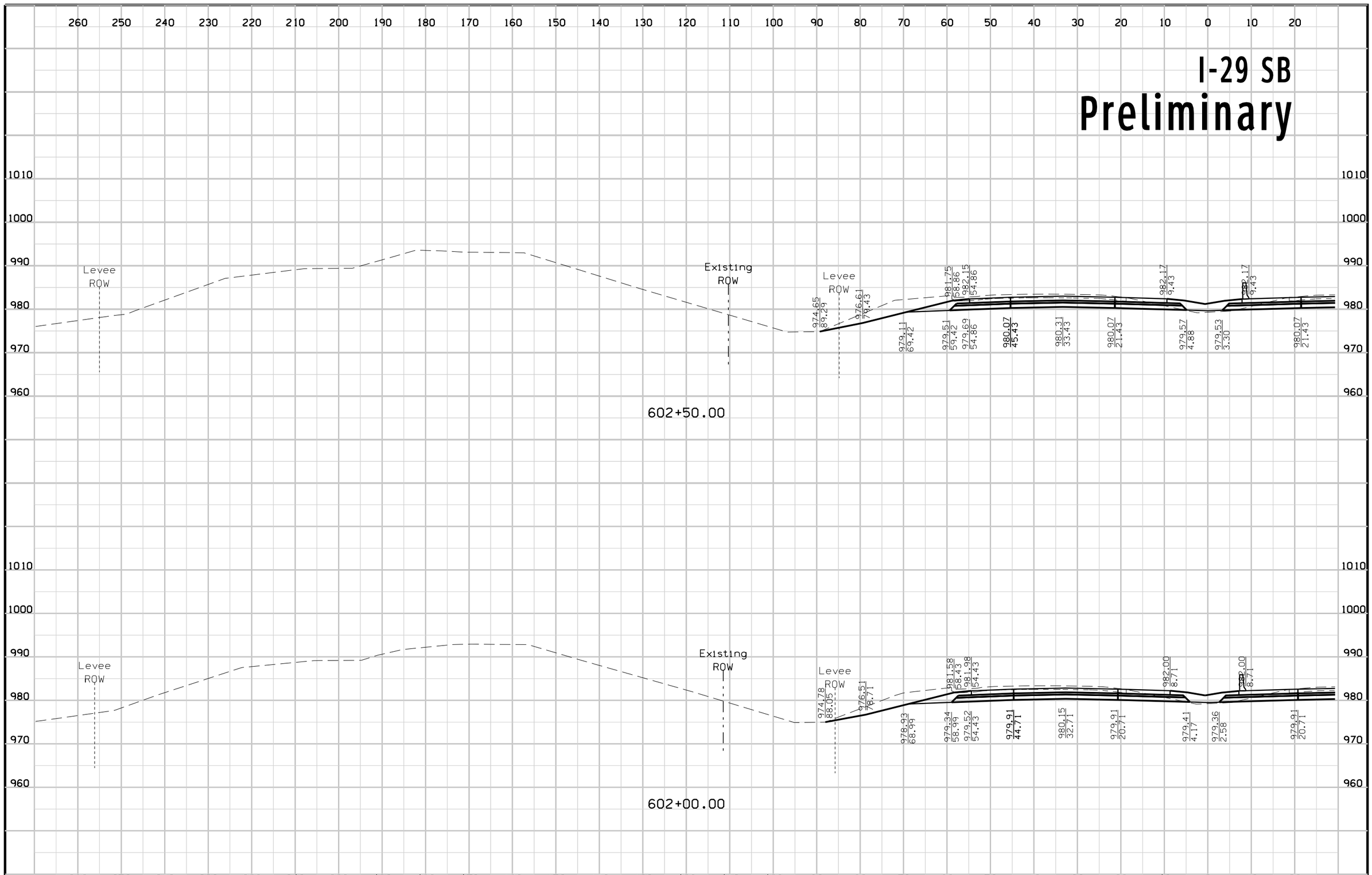
I-29 NB
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER W.191

2:54:15 PM 10/23/2017 mtoapanta pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\XSSHT_ML029.sht

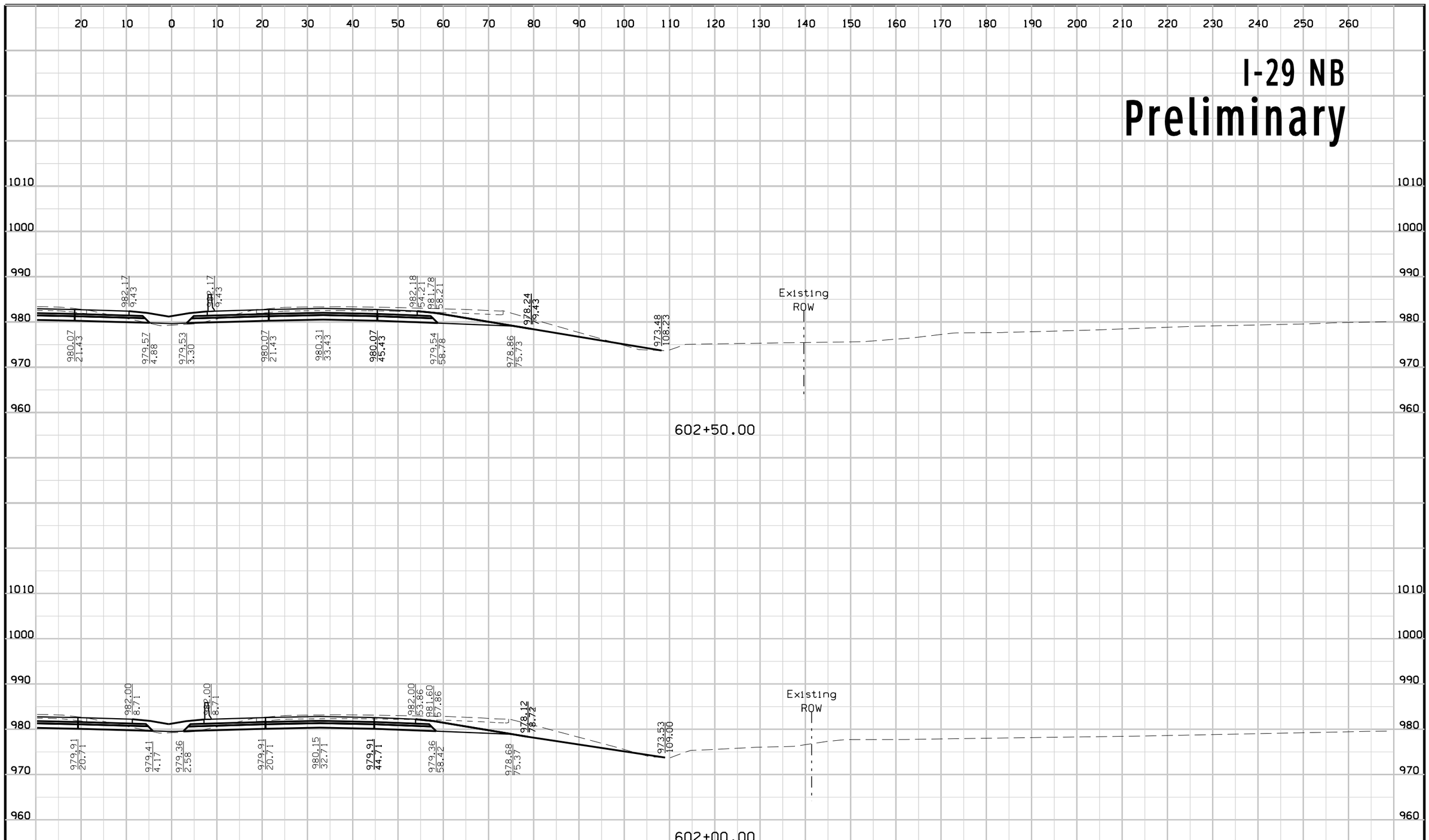
I-29 SB
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER W.192

2:54:18 PM 10/23/2017 mtoapanta pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\XSSHT_ML029.sht

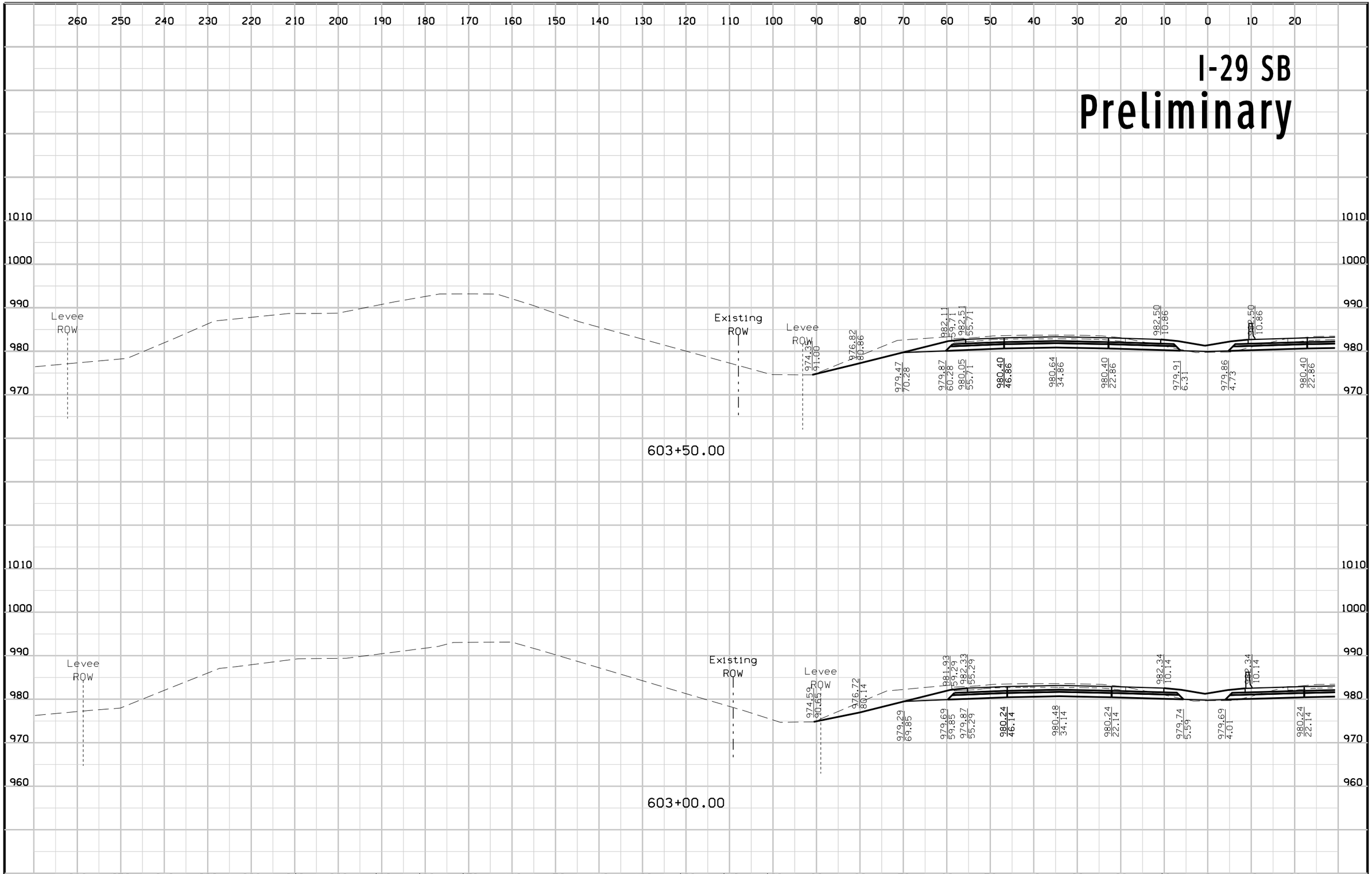
I-29 NB
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER W.193

2:54:21 PM 10/23/2017 mtoapanta pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\XSSHT_ML029.sht

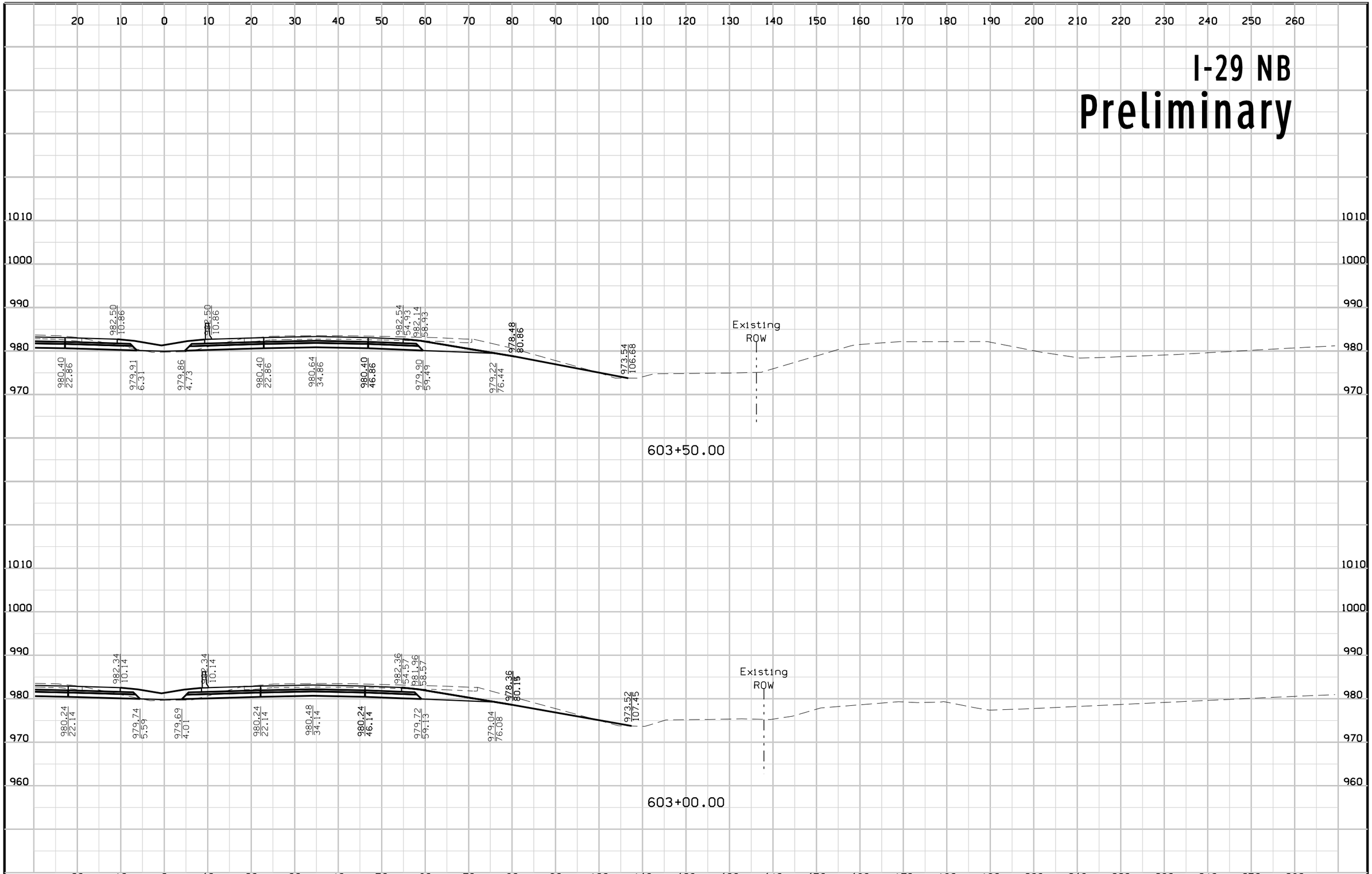
I-29 SB
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER W.194

2:54:25 PM 10/23/2017 mtoapanta pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\XSSHT_ML029.sht

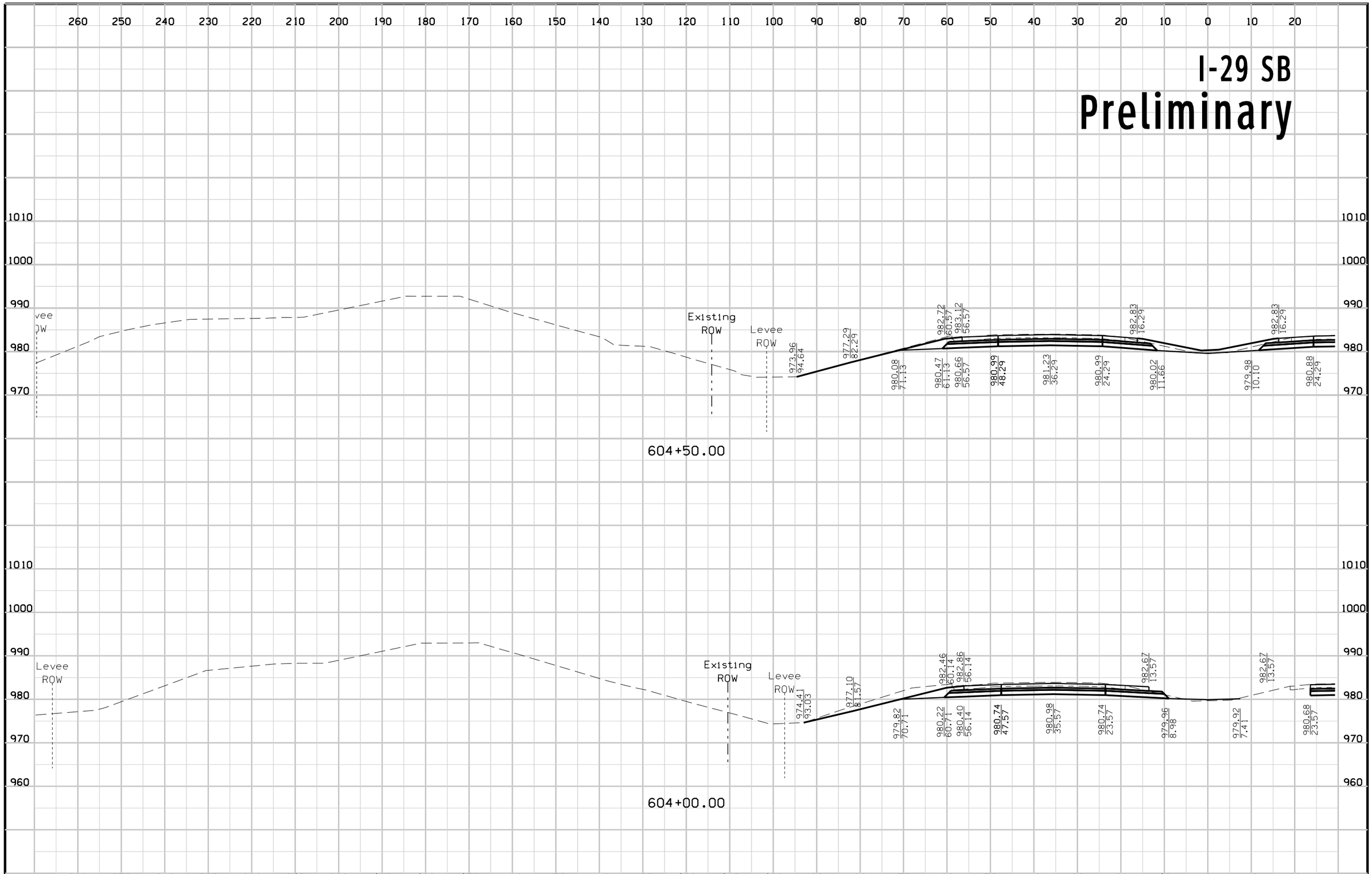
I-29 NB
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER W.195

2:54:29 PM 10/23/2017 mtoapanta pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\XSSHT_ML029.sht

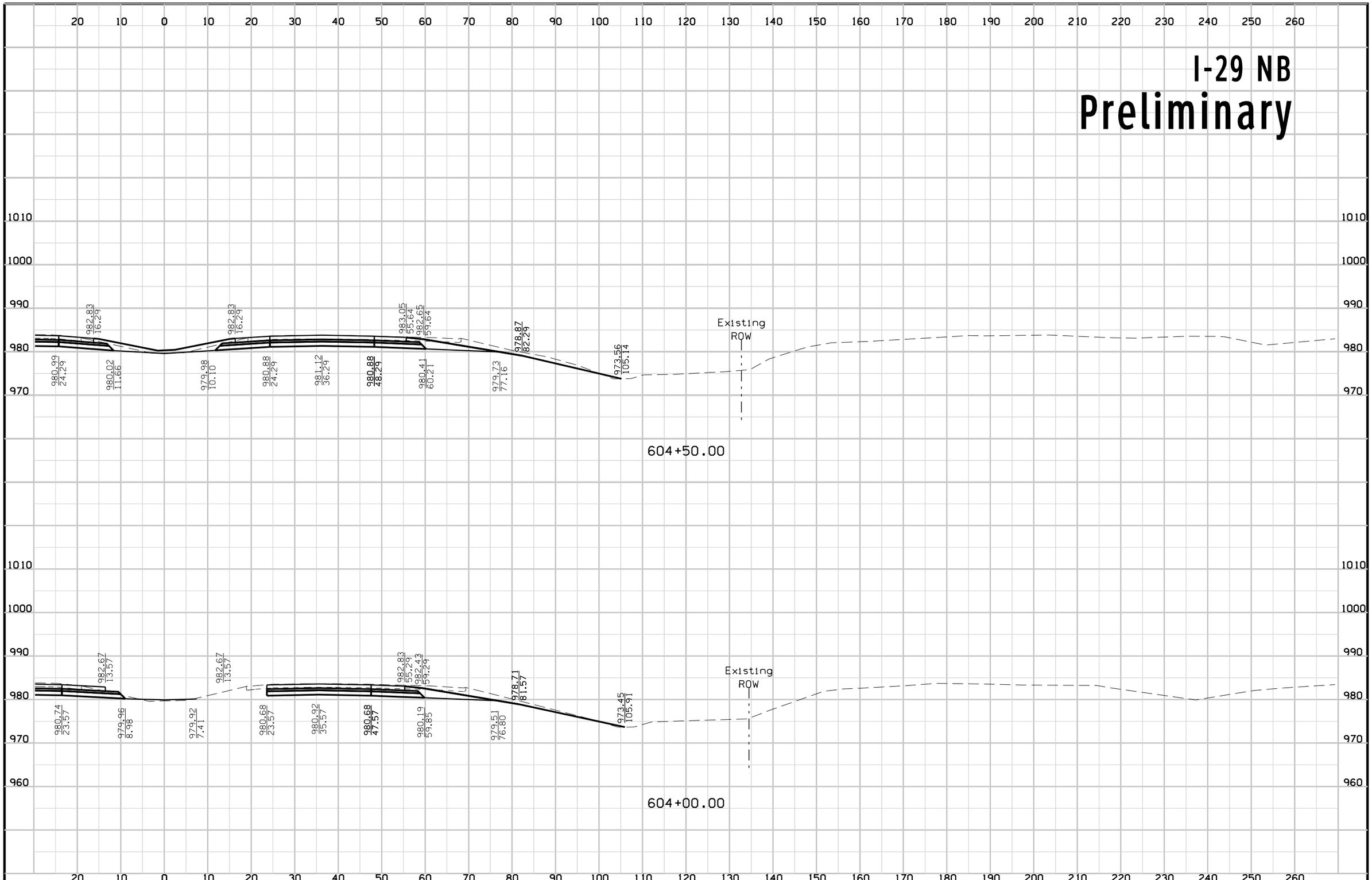
I-29 SB
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER W.196

2:54:33 PM 10/23/2017 mtoapanta pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\XSSHT_ML029.sht

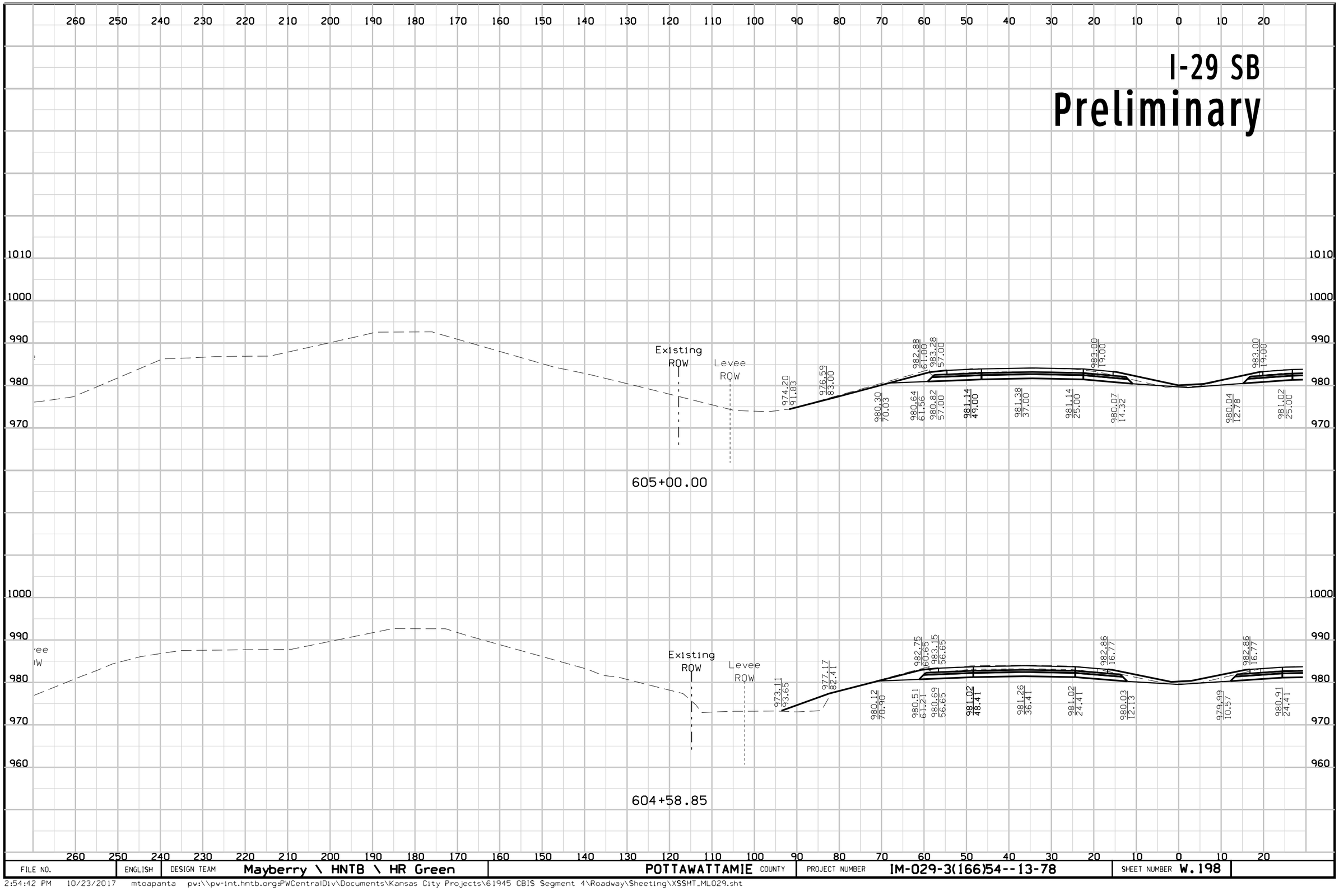
I-29 NB
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER W.197

2:54:38 PM 10/23/2017 mtoapanta pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\XSSHT_ML029.sht

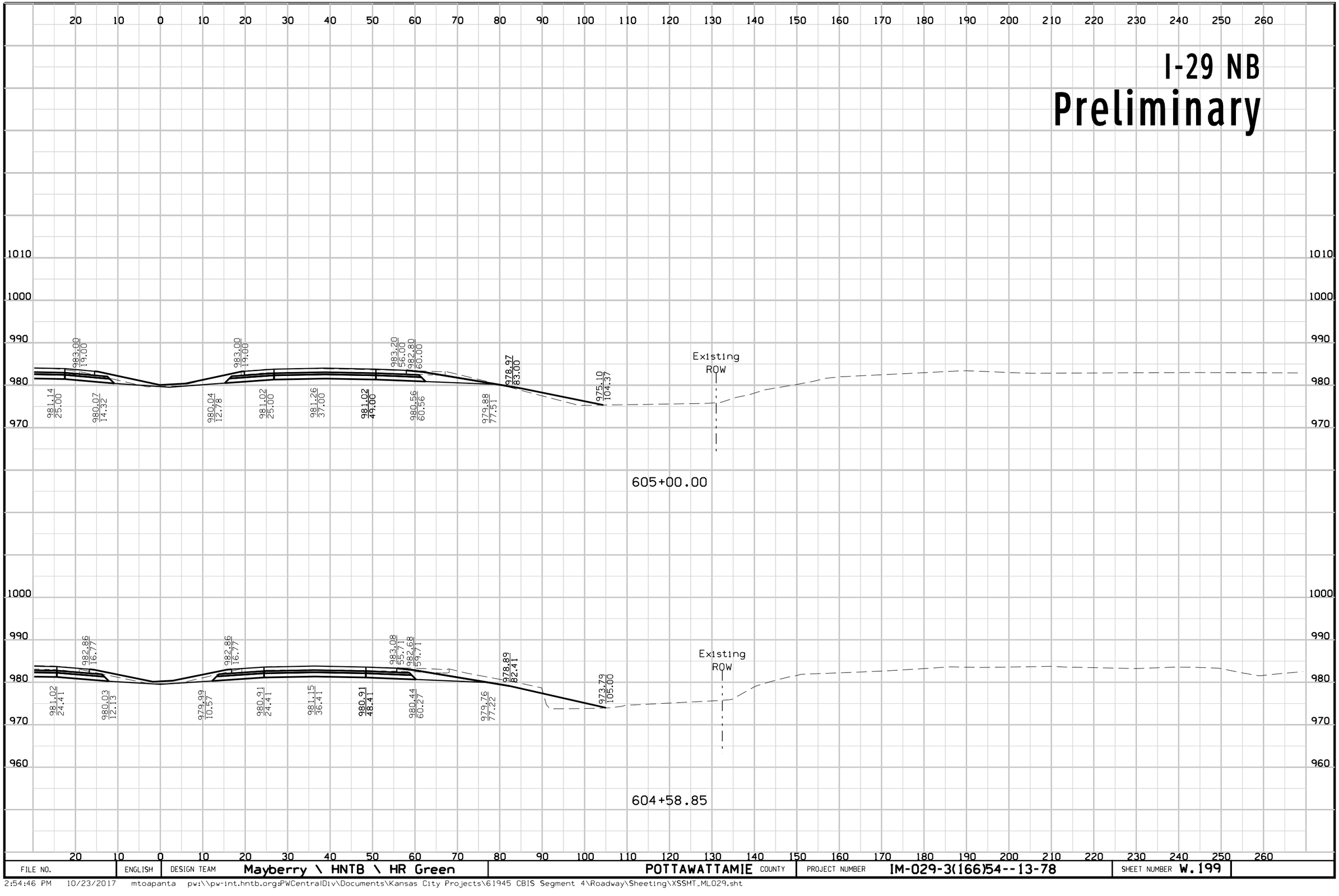
I-29 SB
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER W.198

2:54:42 PM 10/23/2017 mtoapanta pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\XSSHT_ML029.sht

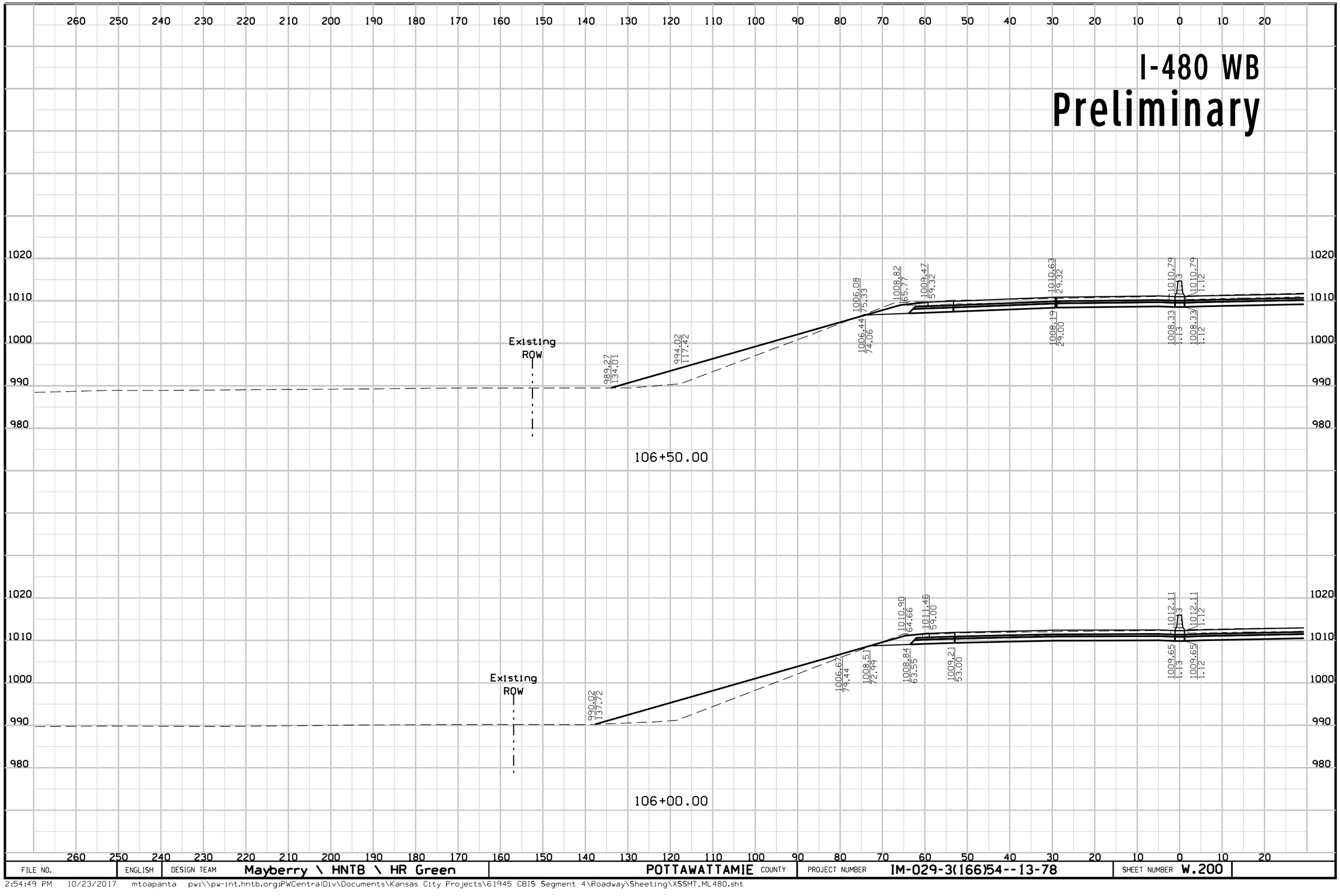
I-29 NB
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER W.199

2:54:46 PM 10/23/2017 mtoapanta pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\XSSHT_ML029.sht

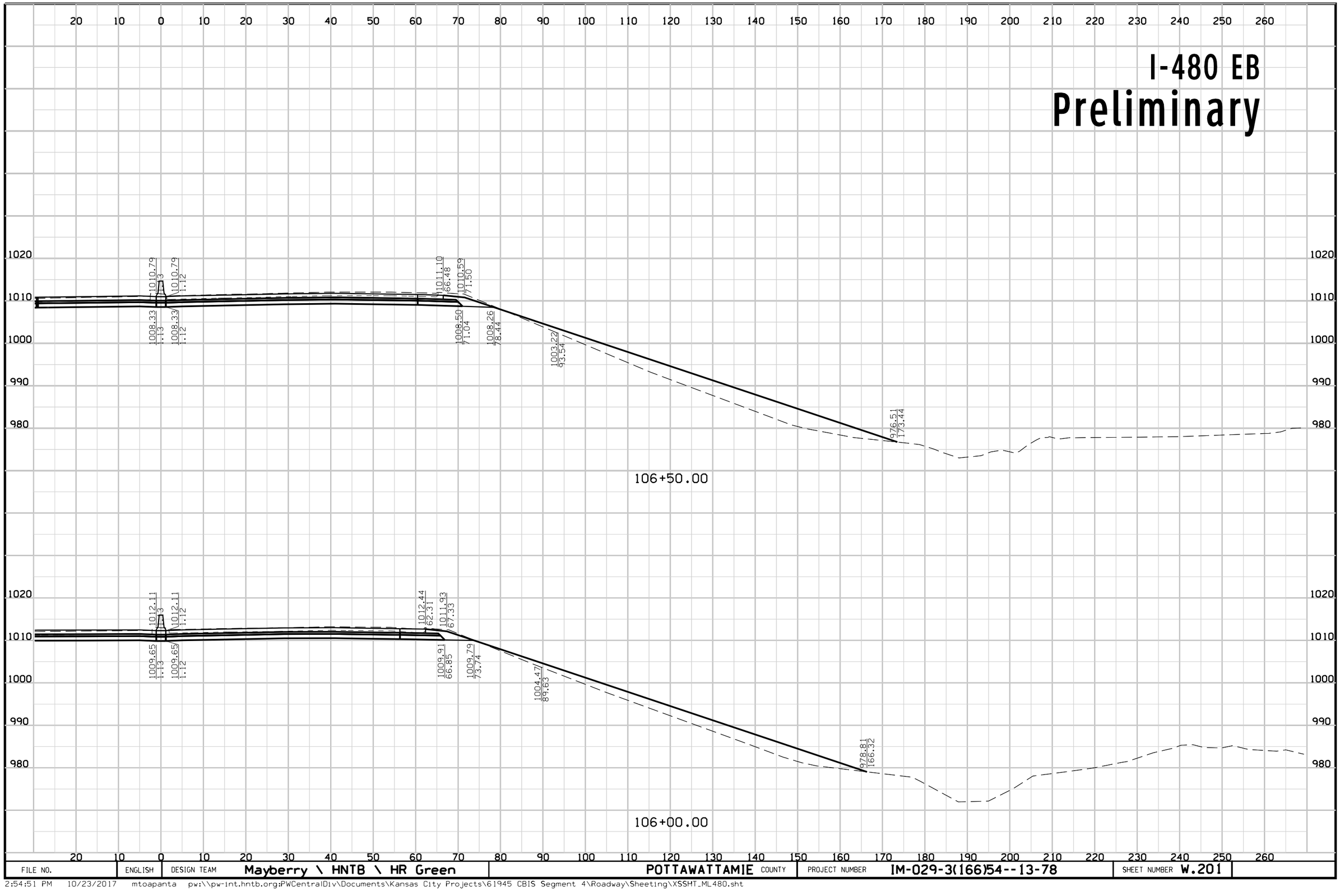
I-480 WB
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER W.200

2:54:49 PM 10/23/2017 mtoapanta pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\XSSHT_ML480.sht

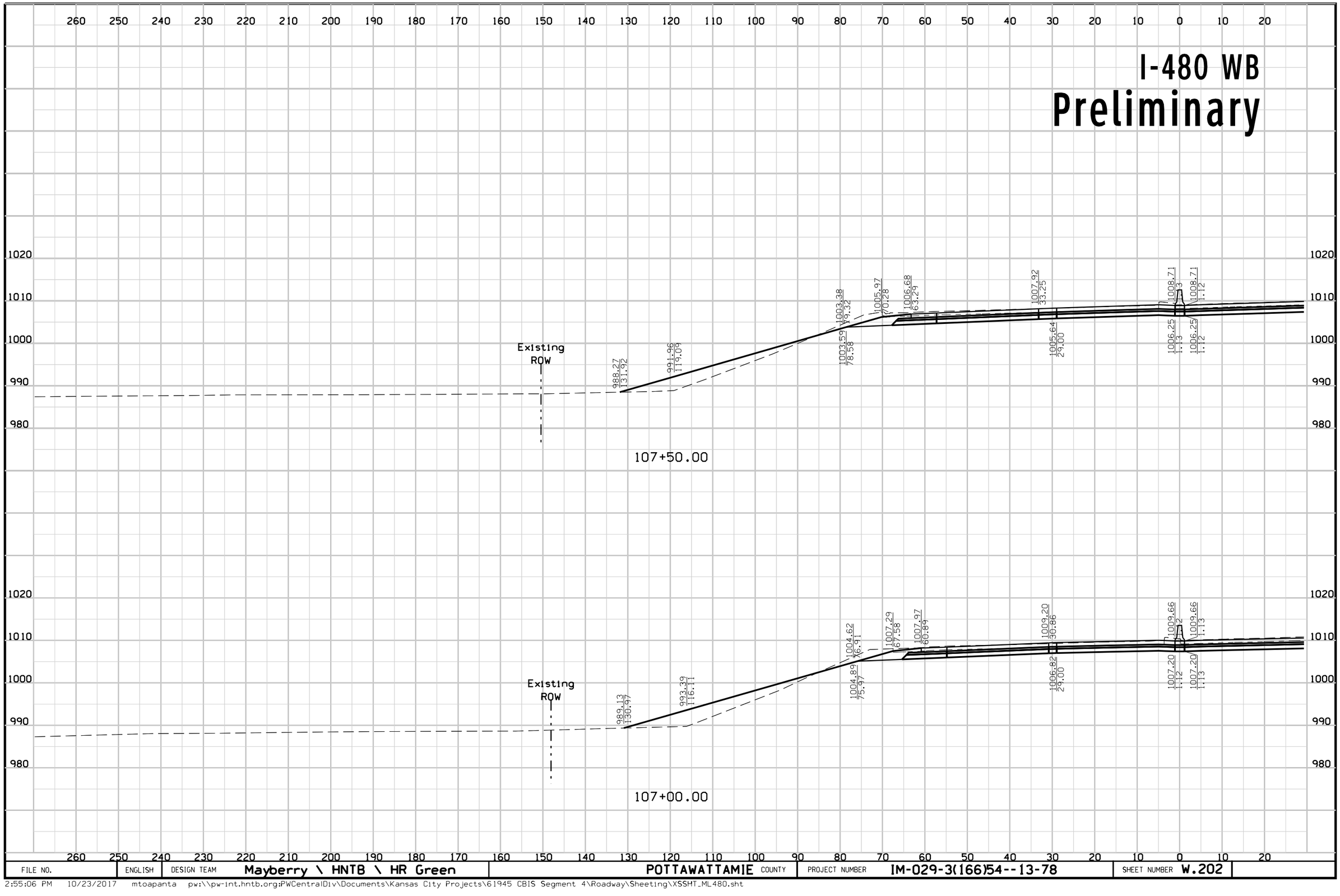
I-480 EB
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER W.201

2:54:51 PM 10/23/2017 mtoapanta pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\XSSHT_ML480.sht

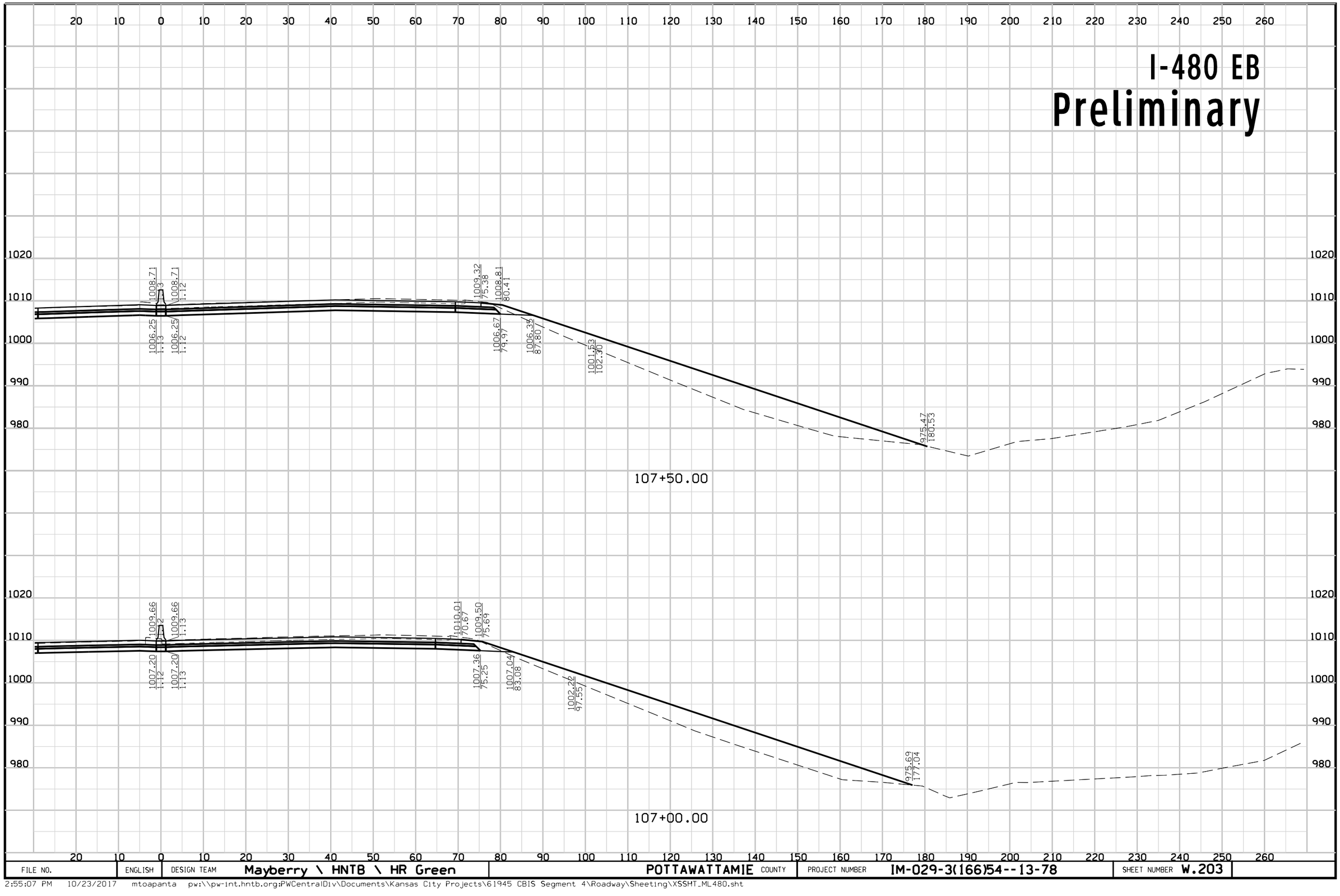
I-480 WB
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER W.202

2:55:06 PM 10/23/2017 mtoapanta pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\XSSHT_ML480.sht

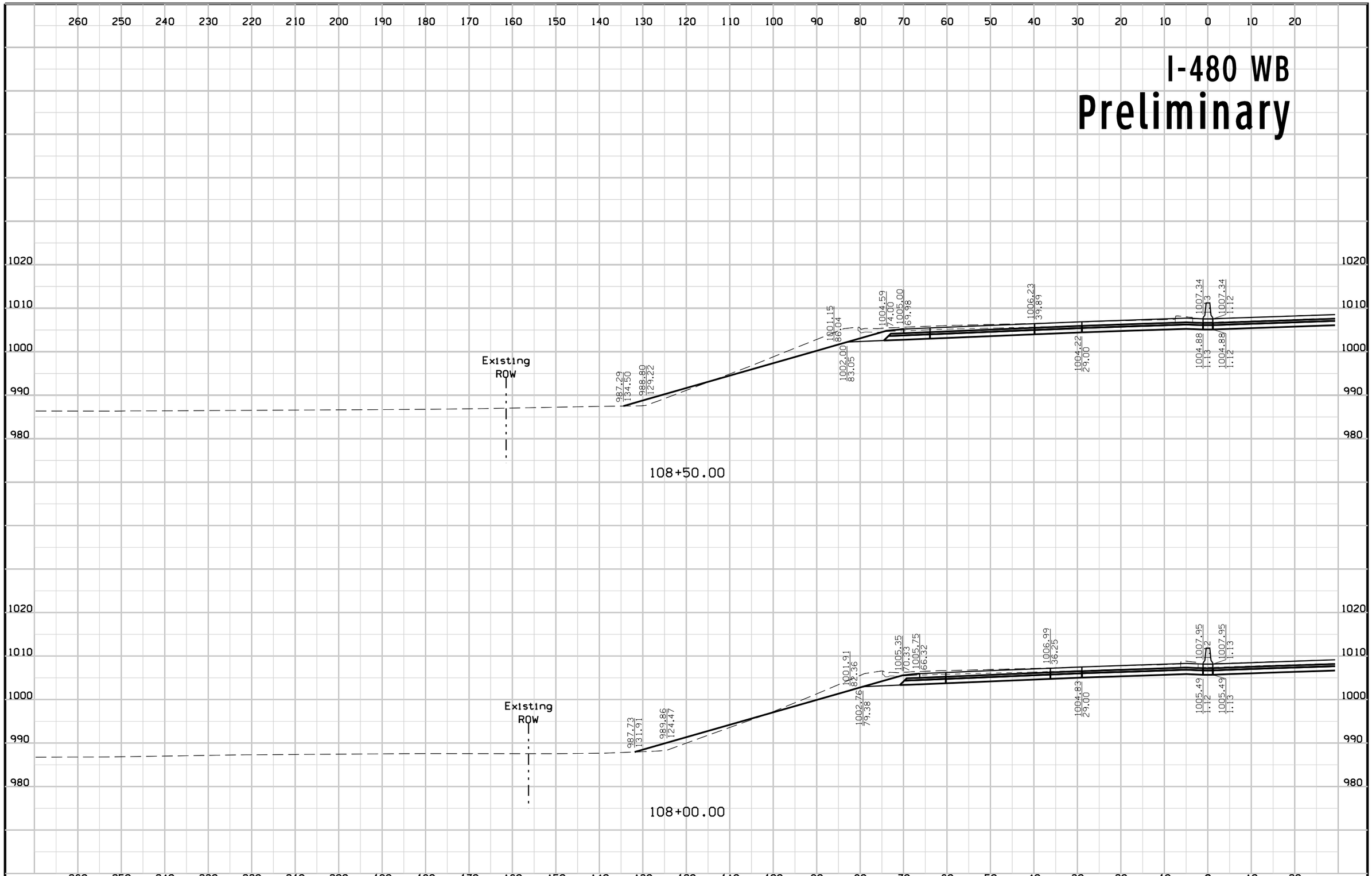
I-480 EB
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER W.203

2:55:07 PM 10/23/2017 mtoapanta pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\XSSHT_ML480.sht

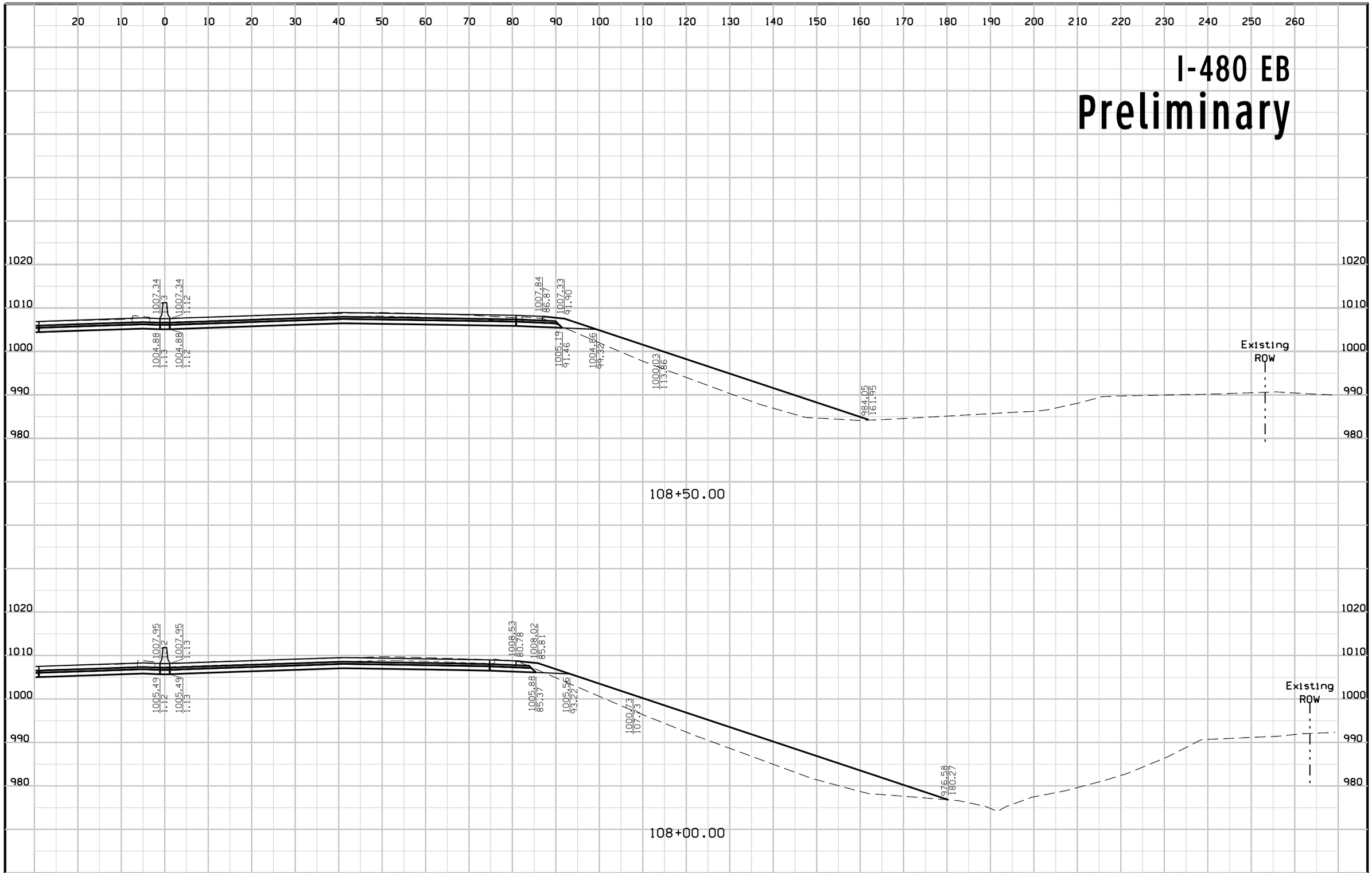
I-480 WB
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER W.204

2:55:08 PM 10/23/2017 mtoapanta pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\XSSHT_ML480.sht

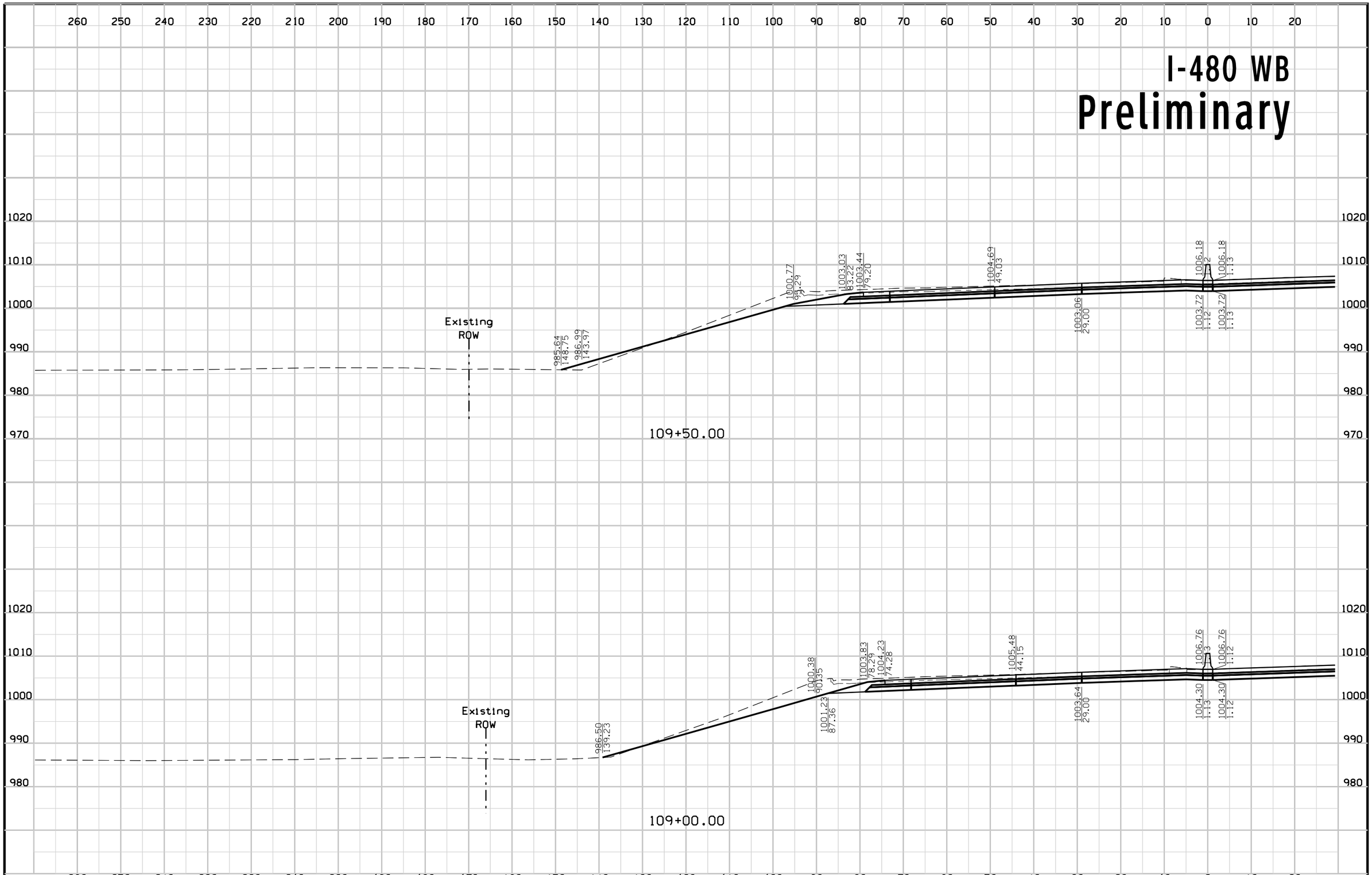
I-480 EB
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER W.205

2:55:09 PM 10/23/2017 mtoapanta pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\XSSHT_ML480.sht

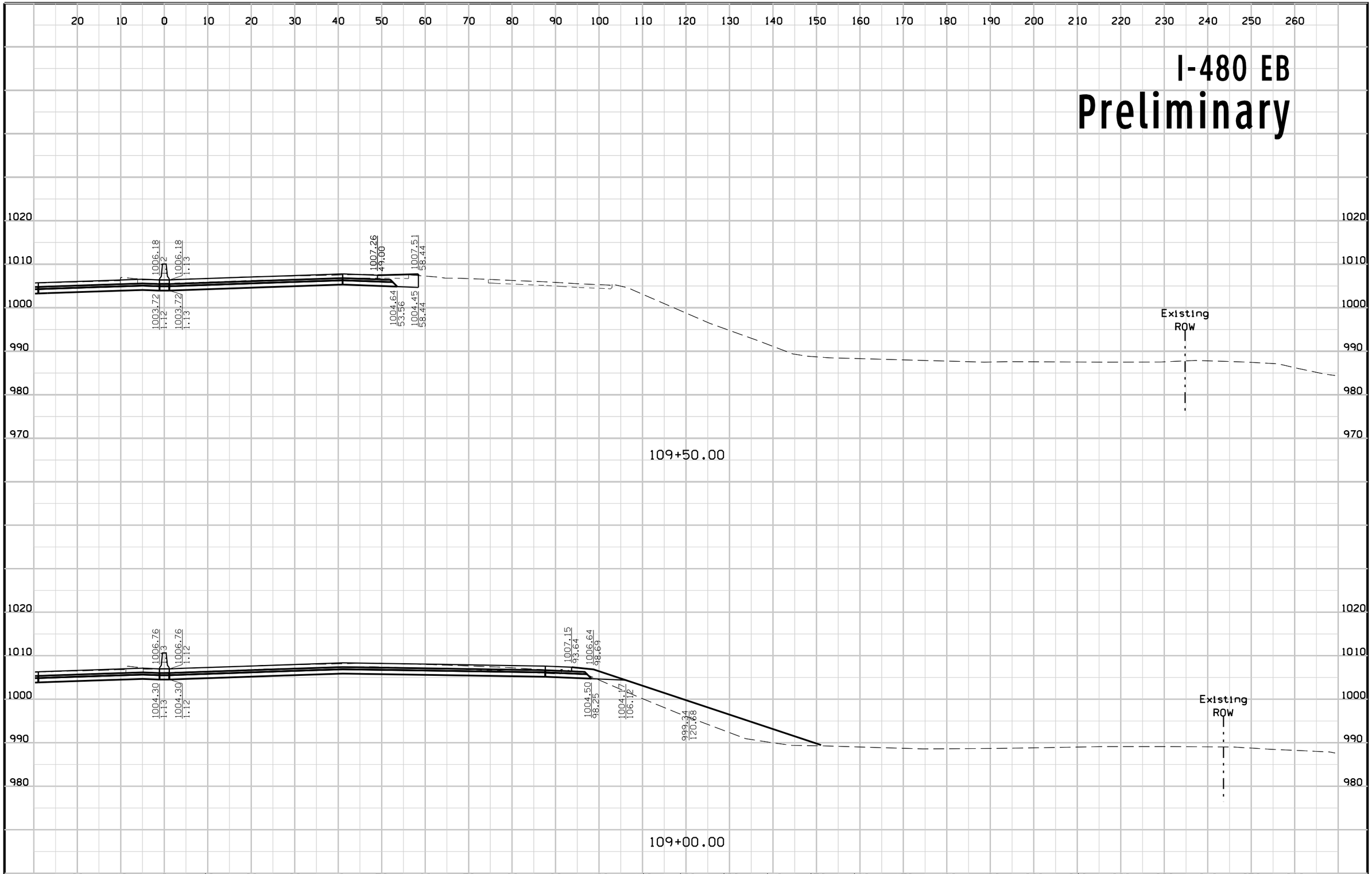
I-480 WB
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER W.206

2:55:11 PM 10/23/2017 mtoapanta pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\XSSHT_ML480.sht

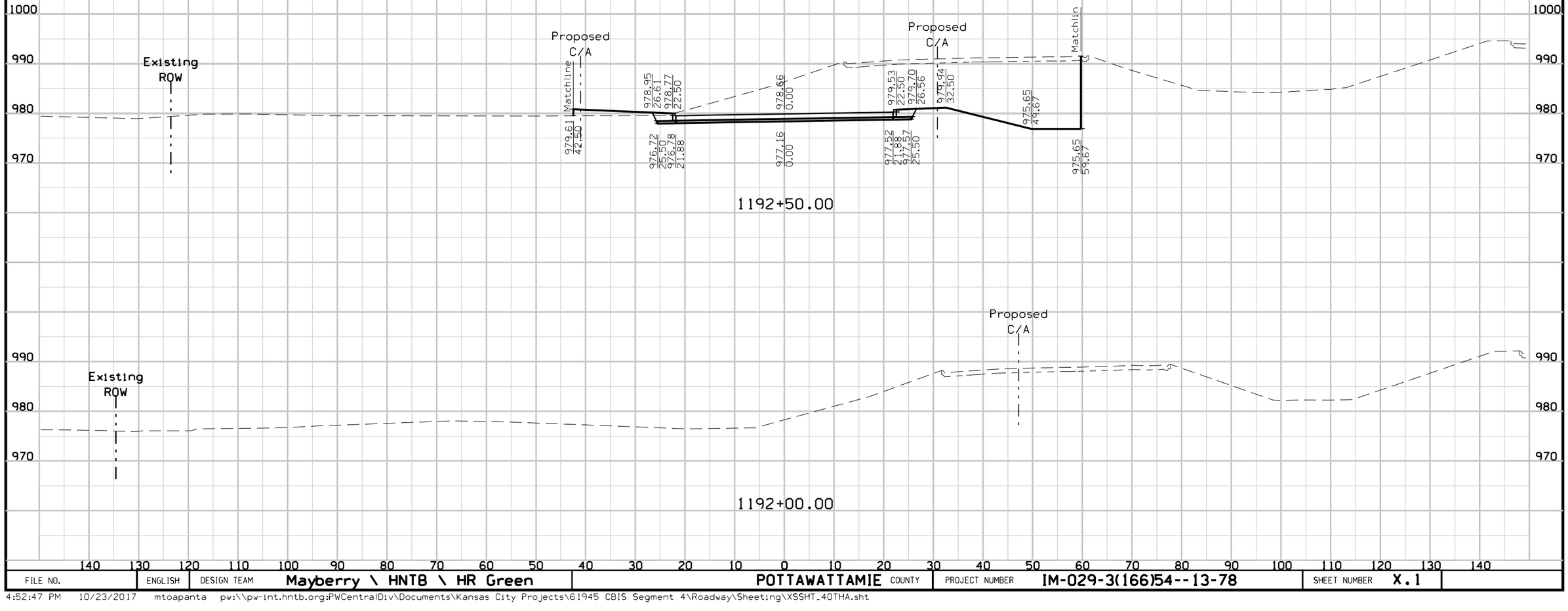
I-480 EB
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER W.207

2:55:12 PM 10/23/2017 mtoapanta pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\XSSHT_ML480.sht

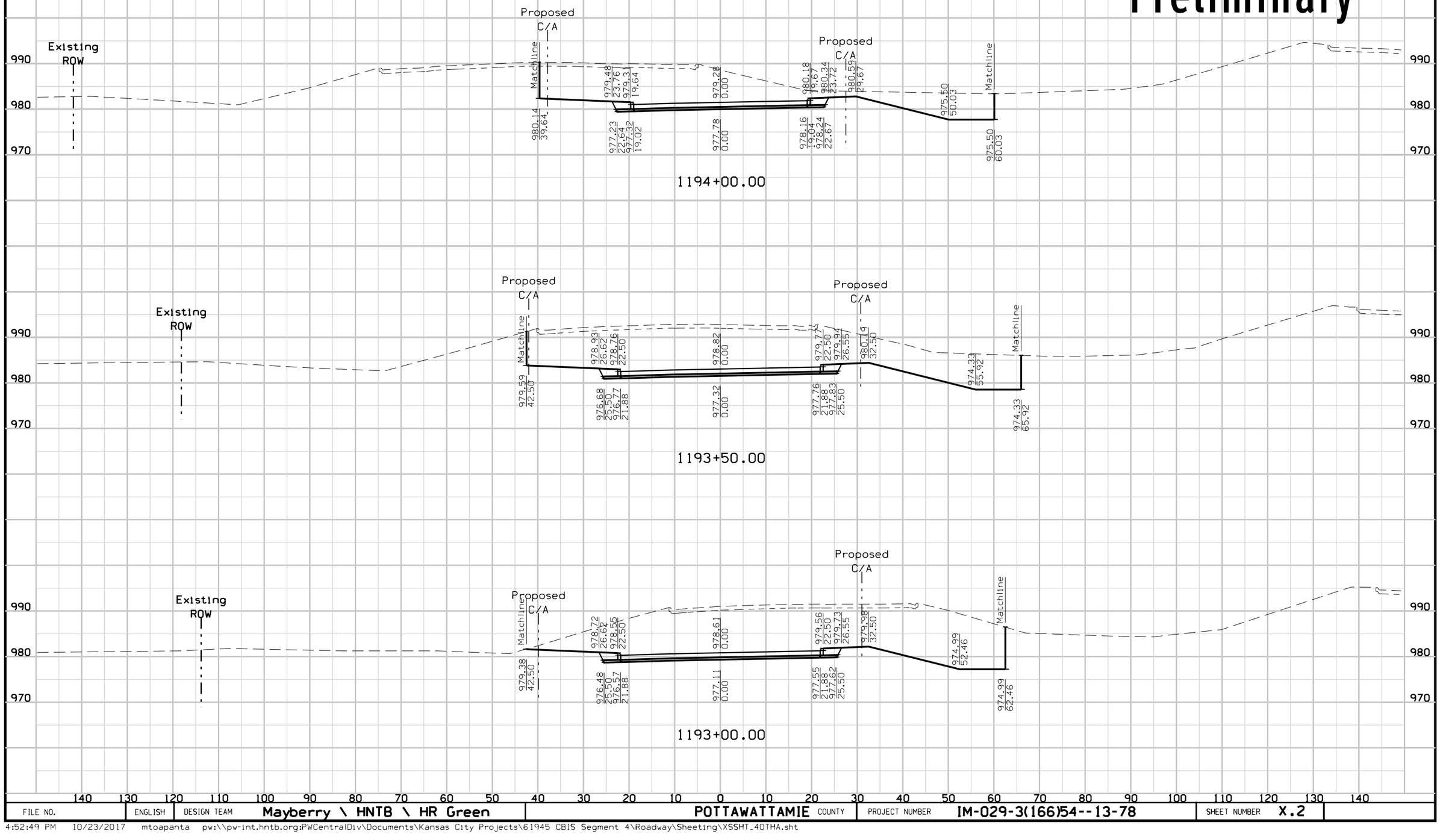
WB W BROADWAY
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER	X.1

4:52:47 PM 10/23/2017 mtoapanta pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\XSSHT_40THA.sht

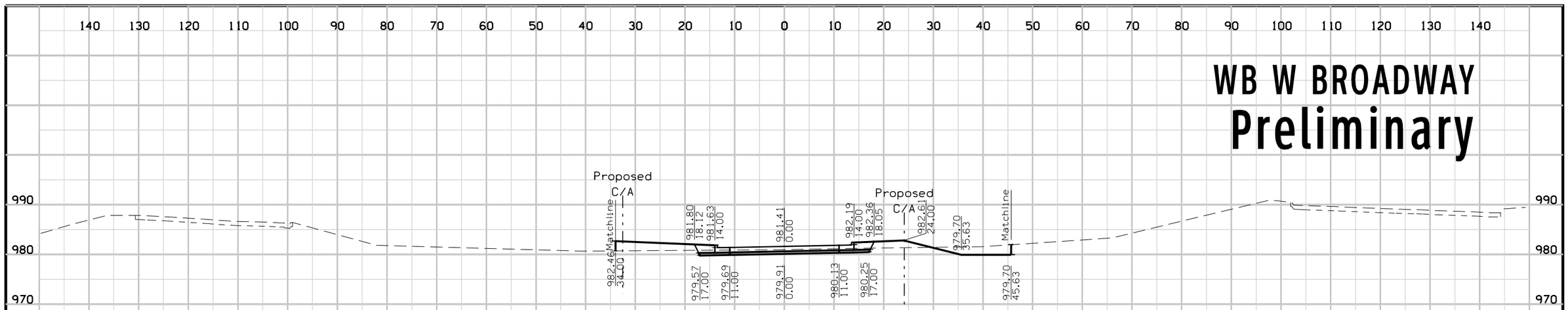
WB W BROADWAY
Preliminary

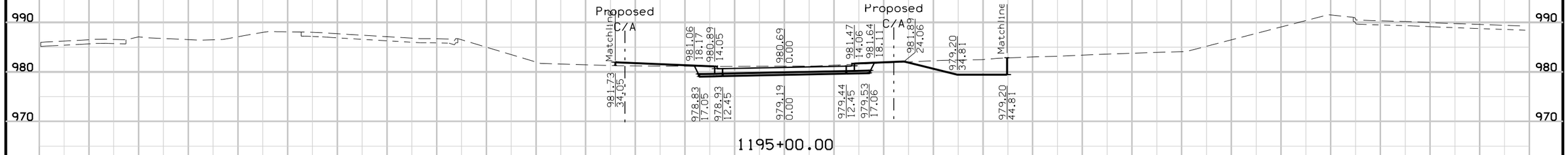


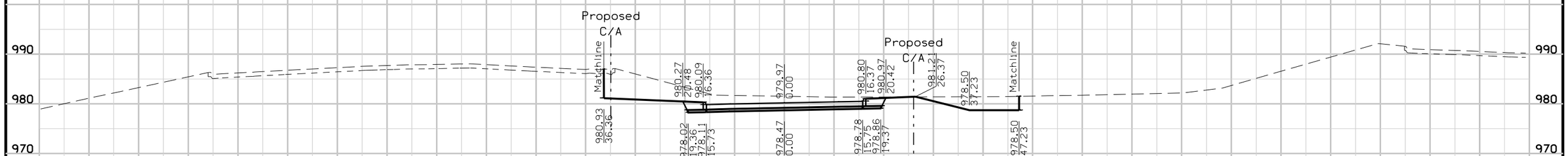
FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER	X.2

4:52:49 PM 10/23/2017 mtoapanta pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\XSSHT_40THA.sht

WB W BROADWAY
Preliminary



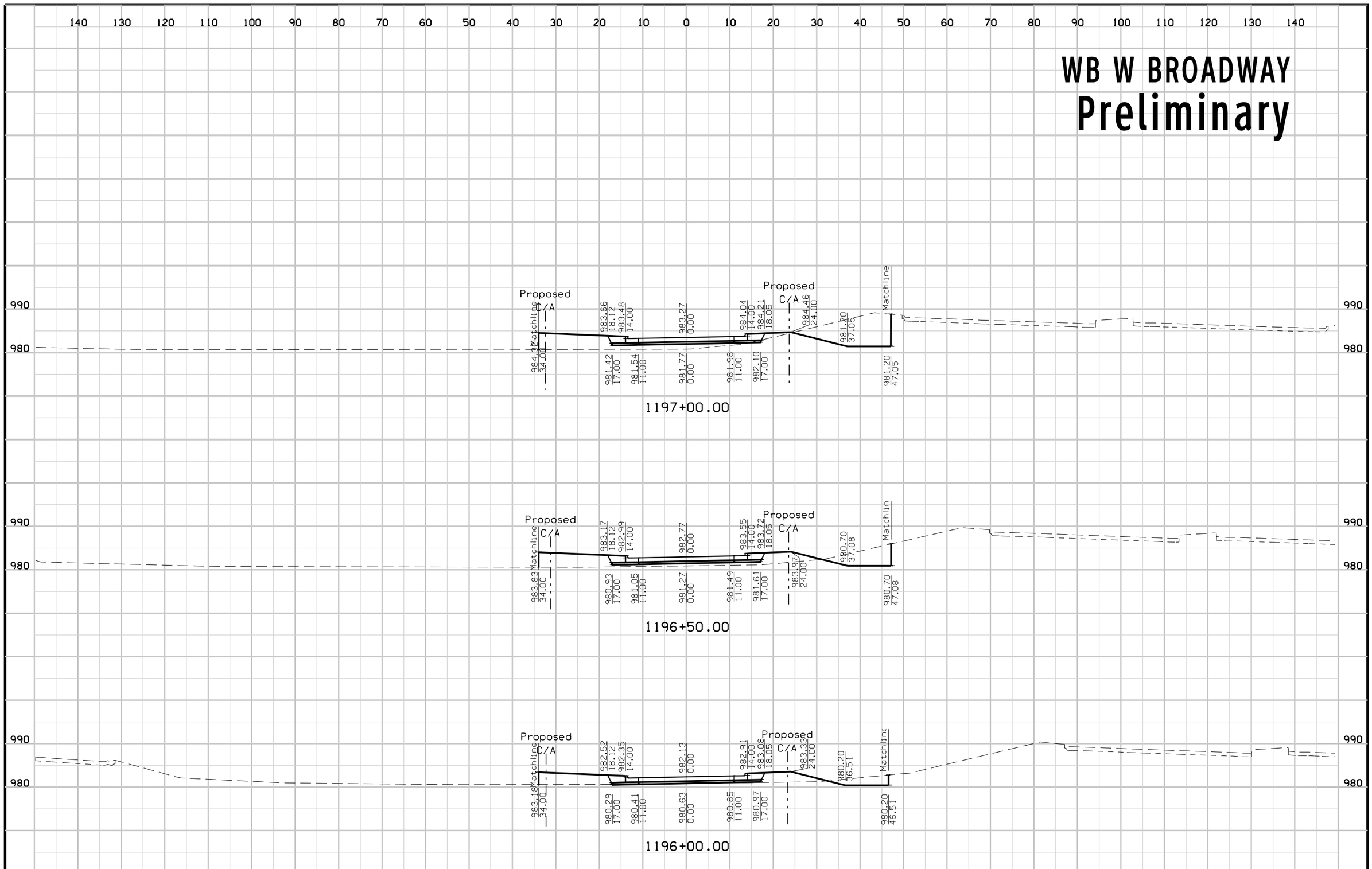




FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER	X.3

4:52:50 PM 10/23/2017 mtoapanta pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\XSSHT_40THA.sht

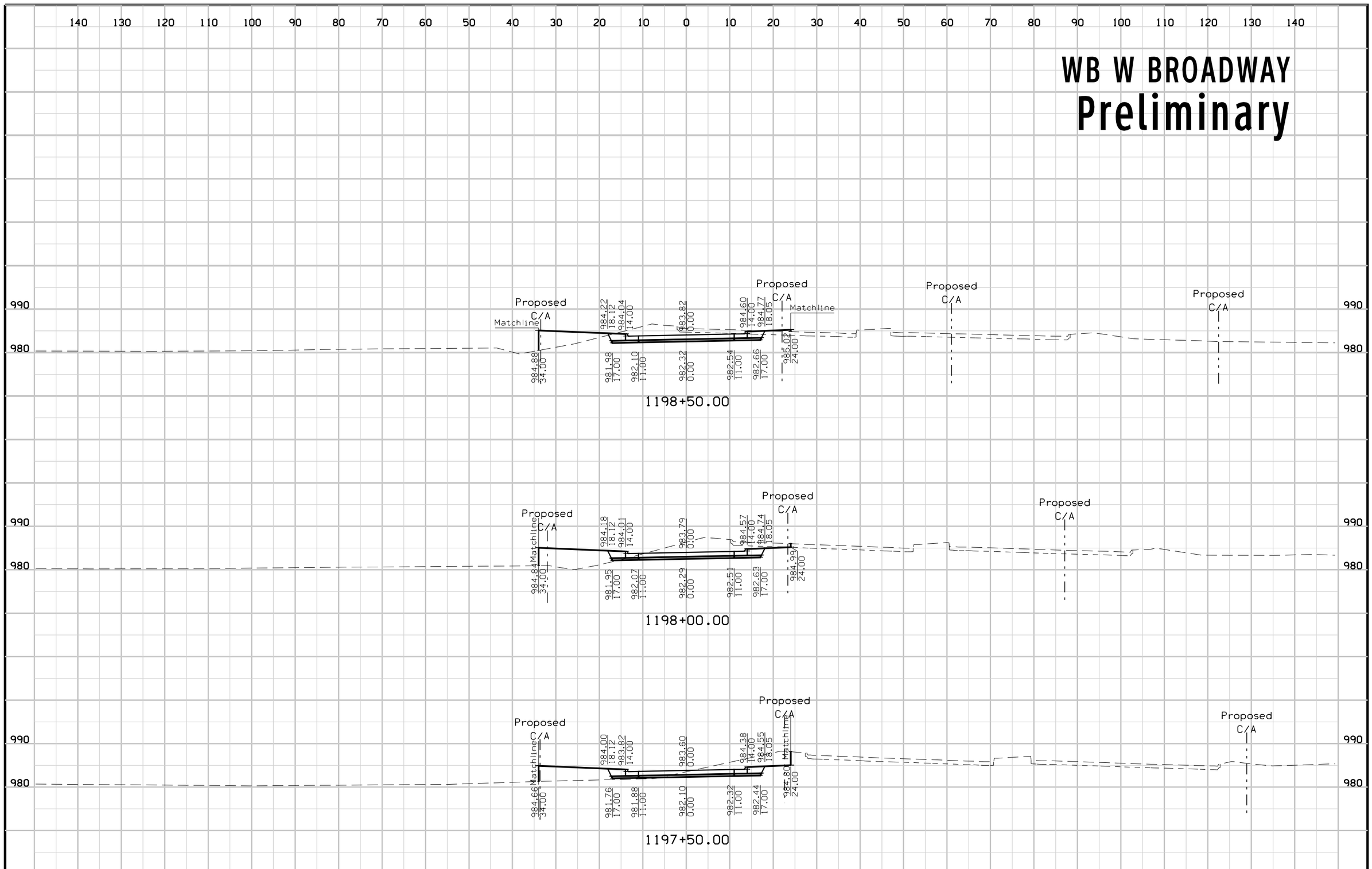
WB W BROADWAY
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER	X.4

4:52:51 PM 10/23/2017 mtoapanta pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\XSSHT_40THA.sht

WB W BROADWAY
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER	X.5

4:52:52 PM 10/23/2017 mtoapanta pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\XSSHT_40THA.sht

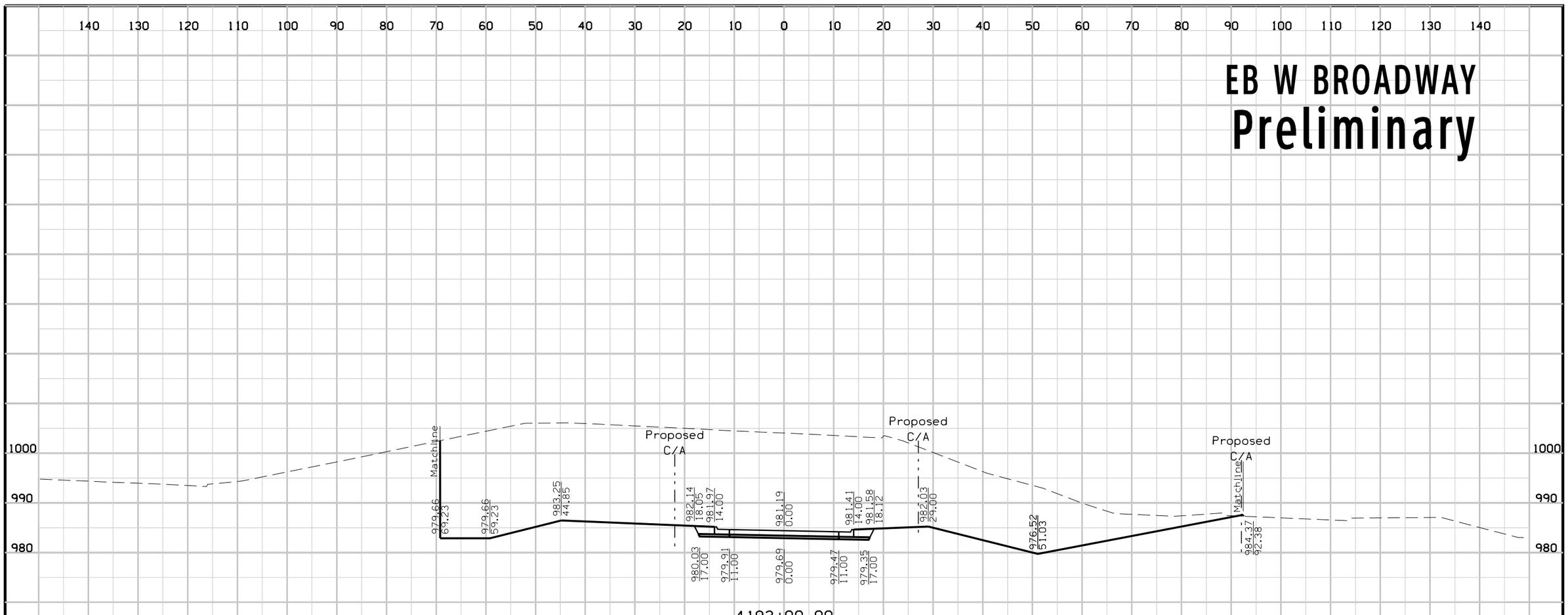
WB W BROADWAY
Preliminary

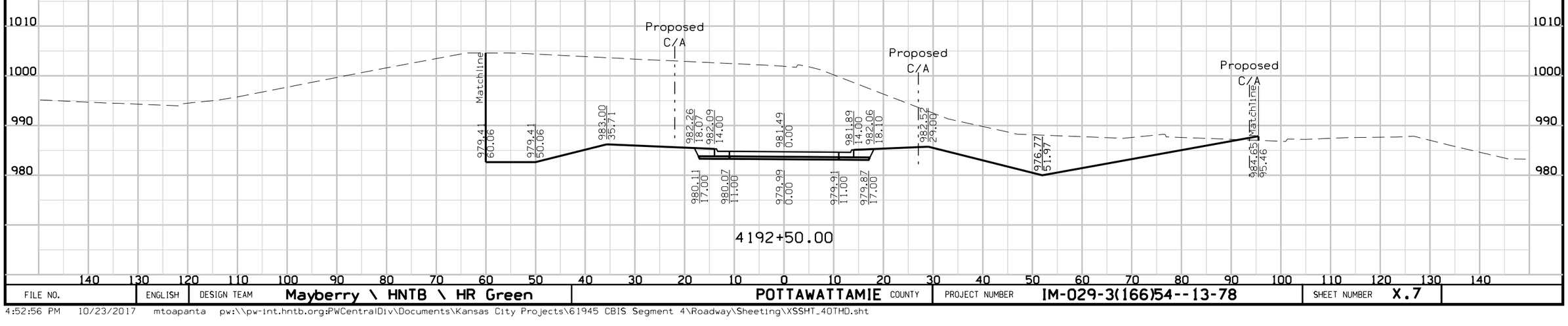


FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER	X.6

4:52:53 PM 10/23/2017 mtoapanta pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\XSSHT_40THA.sht

EB W BROADWAY
Preliminary





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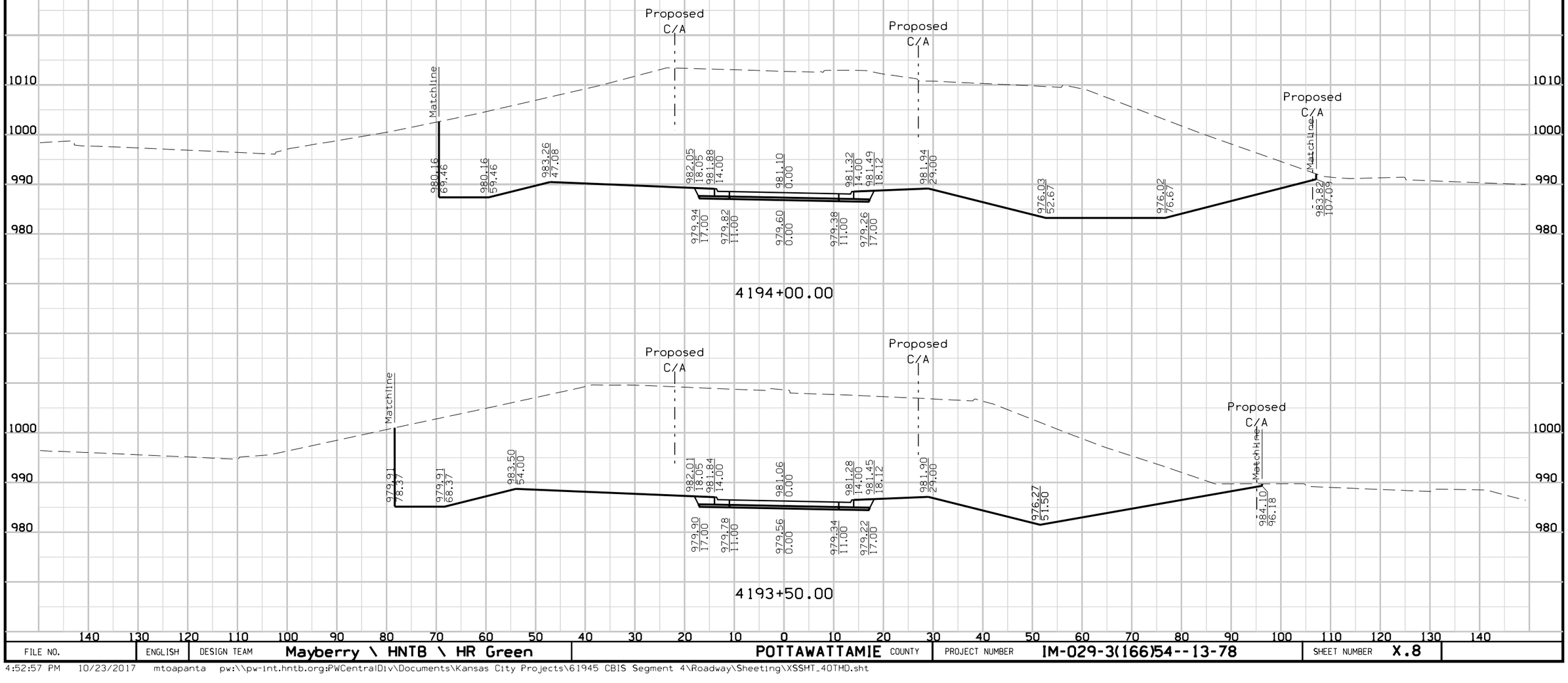
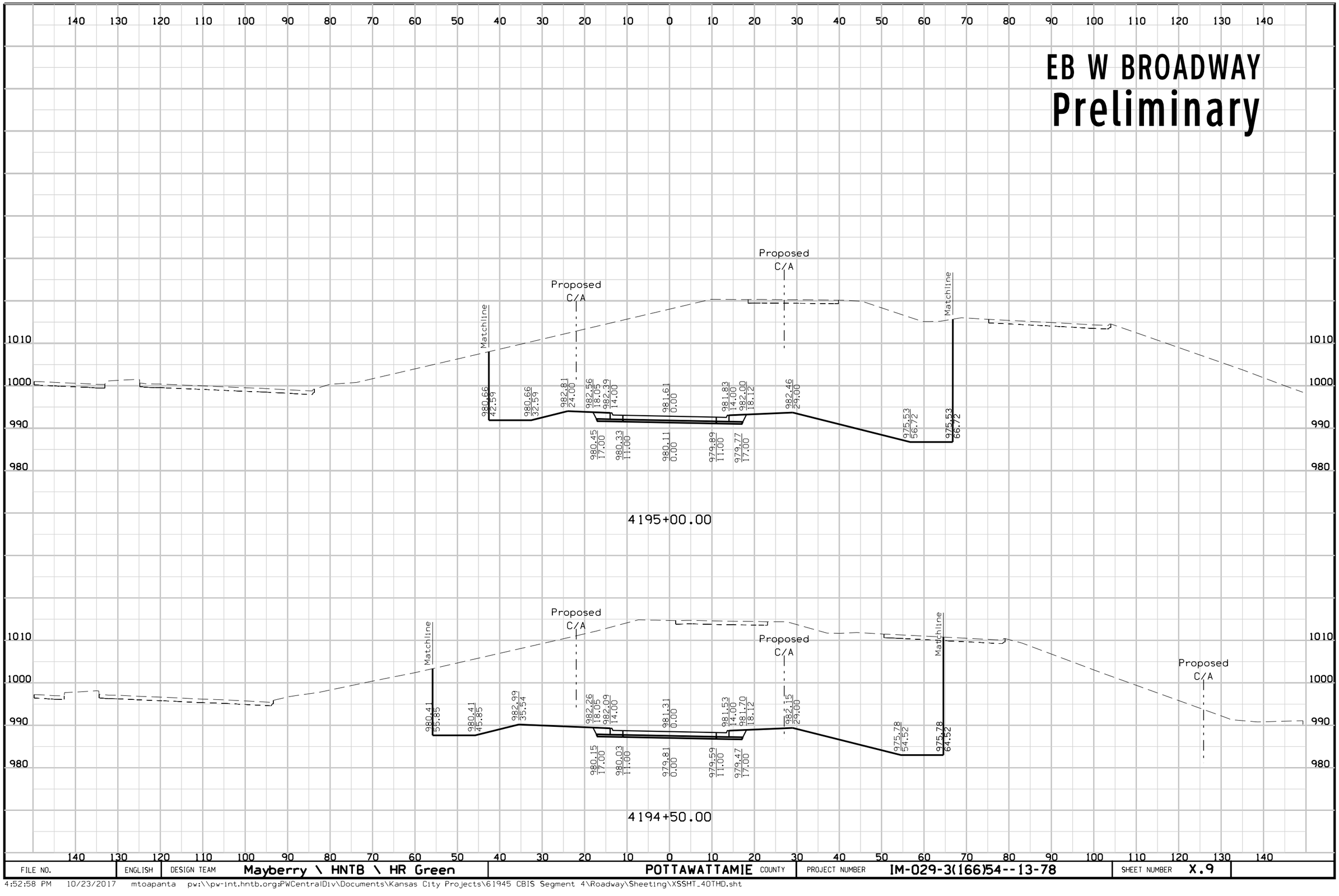
4:52:56 PM 10/23/2017 mtoapanta pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\XSSHT_40THD.sht

EB W BROADWAY
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER	X.8

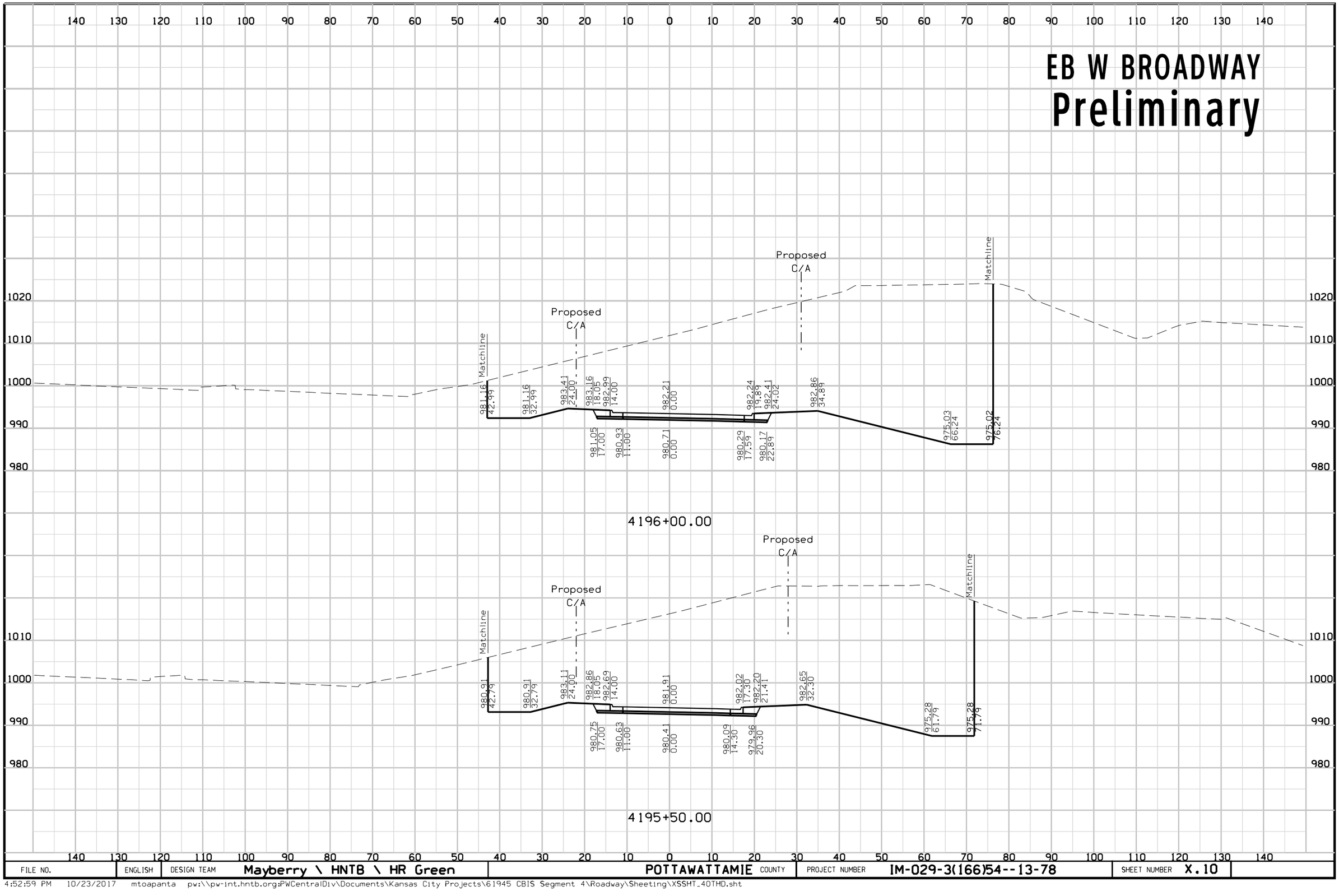
EB W BROADWAY
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER X.9

4:52:58 PM 10/23/2017 mtoapanta pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\XSSHT_40THD.sht

EB W BROADWAY
Preliminary



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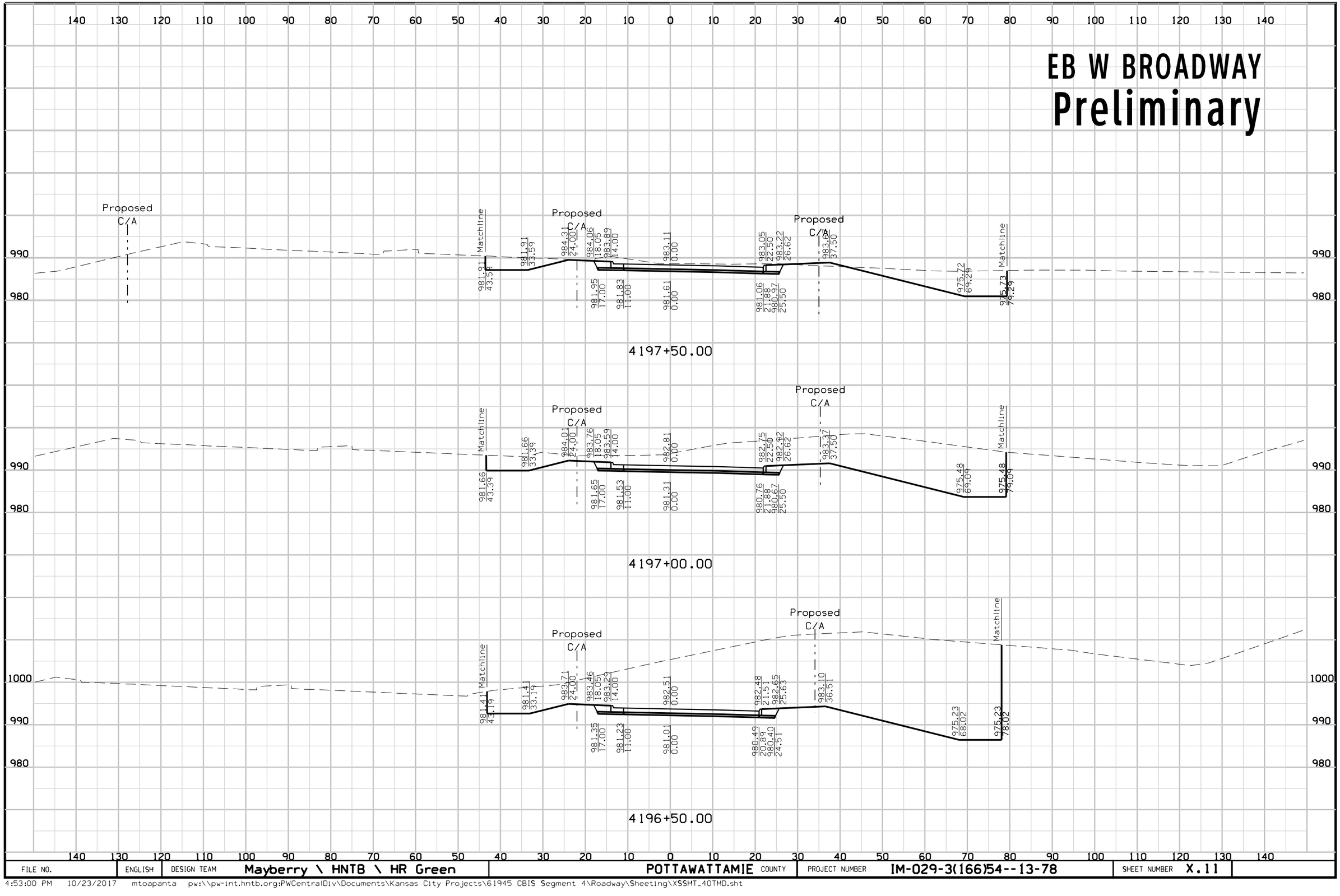
4:52:59 PM 10/23/2017 mtoapanta pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\XSSHT_40THD.sht

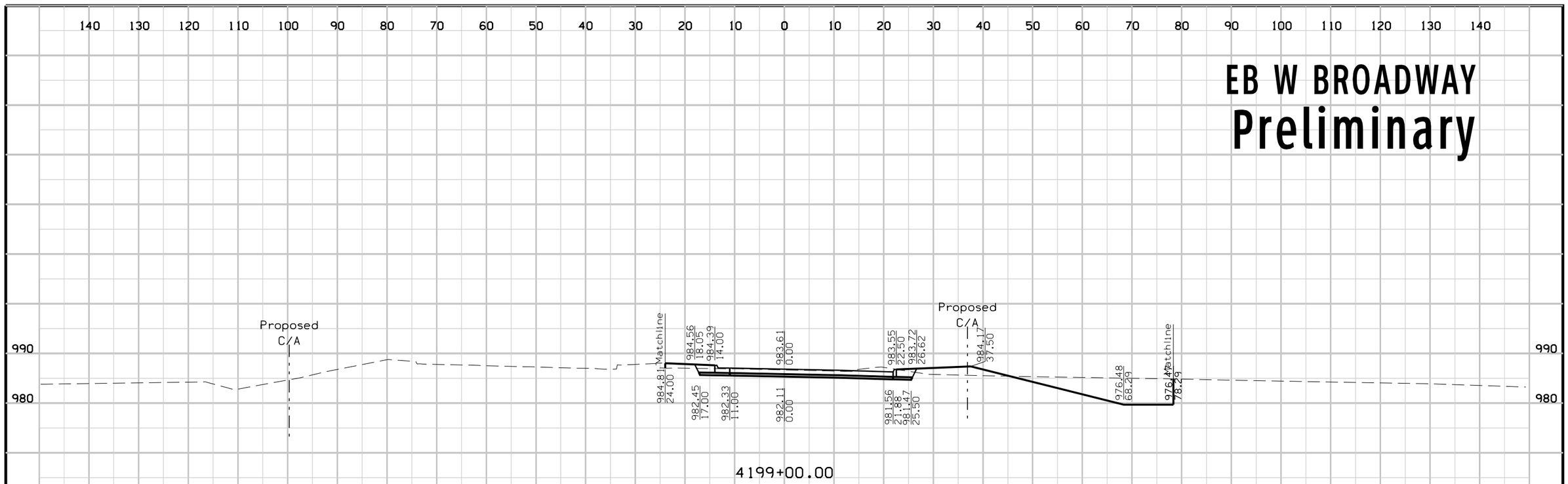
EB W BROADWAY
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER X.11

4:53:00 PM 10/23/2017 mtoapanta pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\XSSHT_40THD.sht

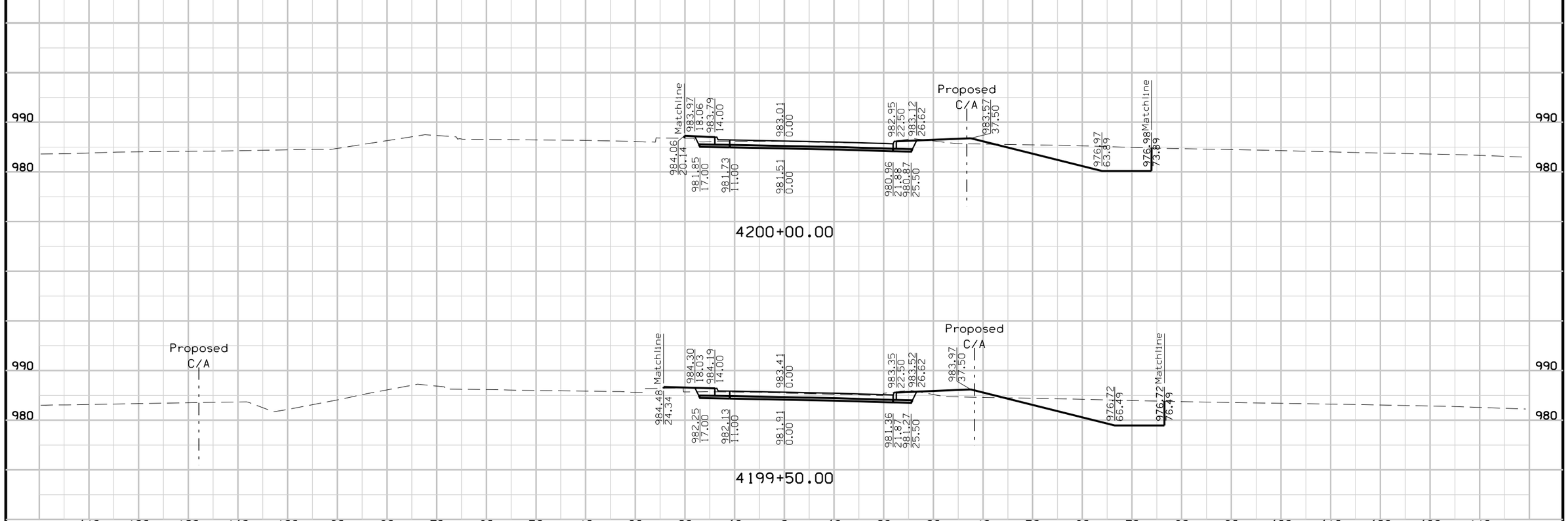
EB W BROADWAY
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER X.12

4:53:01 PM 10/23/2017 mtoapanta pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\XSSHT_40THD.sht

EB W BROADWAY
Preliminary



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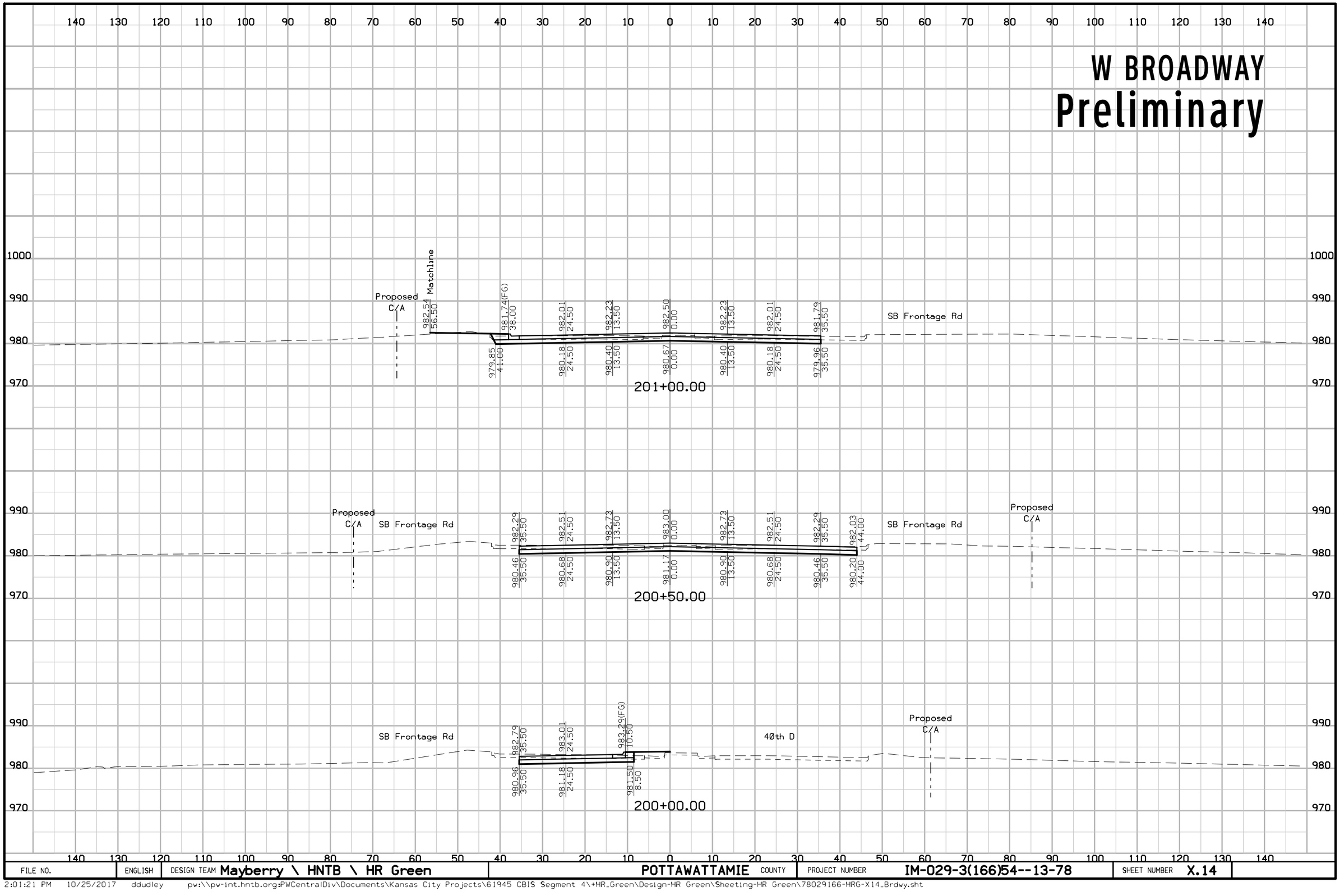
4:53:02 PM 10/23/2017 mtoapanta pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\XSSHT_40THD.sht

W BROADWAY

Preliminary



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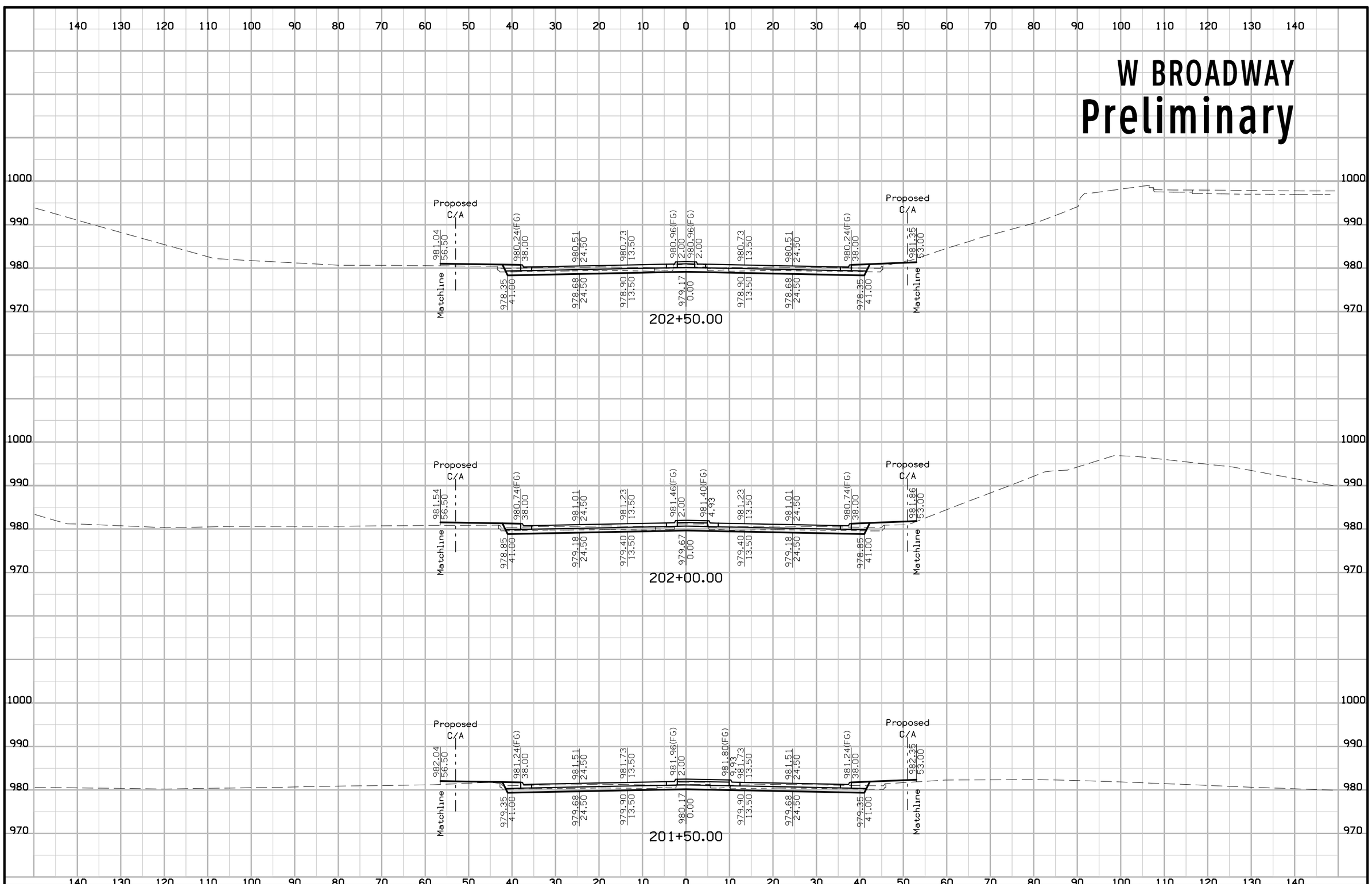
2:01:21 PM 10/25/2017 ddudley pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\+HR_Green\Design-HR Green\Sheeting-HR Green\78029166-HRG-X14_Brdwy.sht

W BROADWAY
Preliminary



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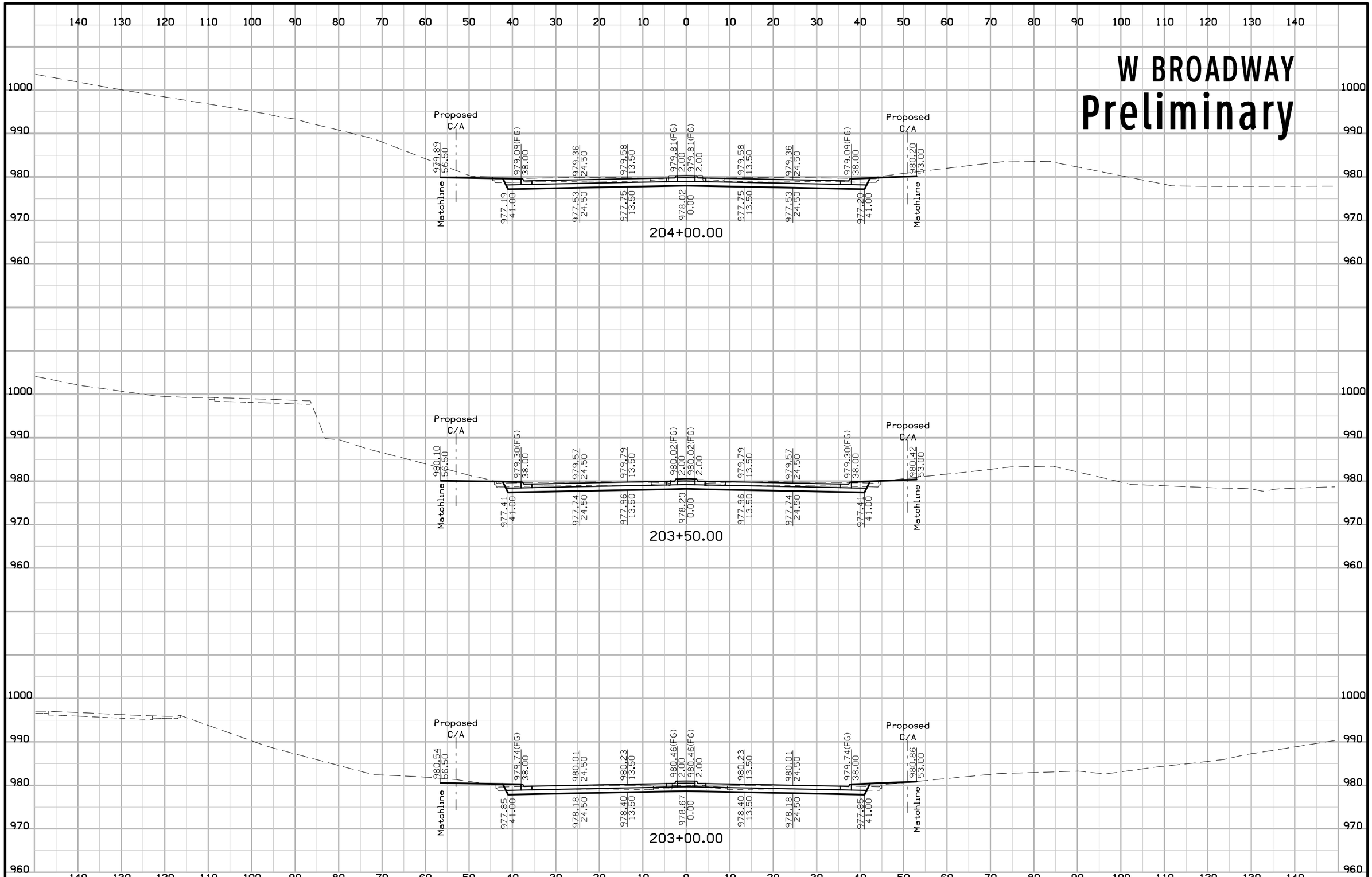
2:01:22 PM 10/25/2017 ddudley pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\+HR_Green\Design-HR Green\Sheeting-HR Green\78029166-HRG-X14_Brdwy.sht

W BROADWAY

Preliminary



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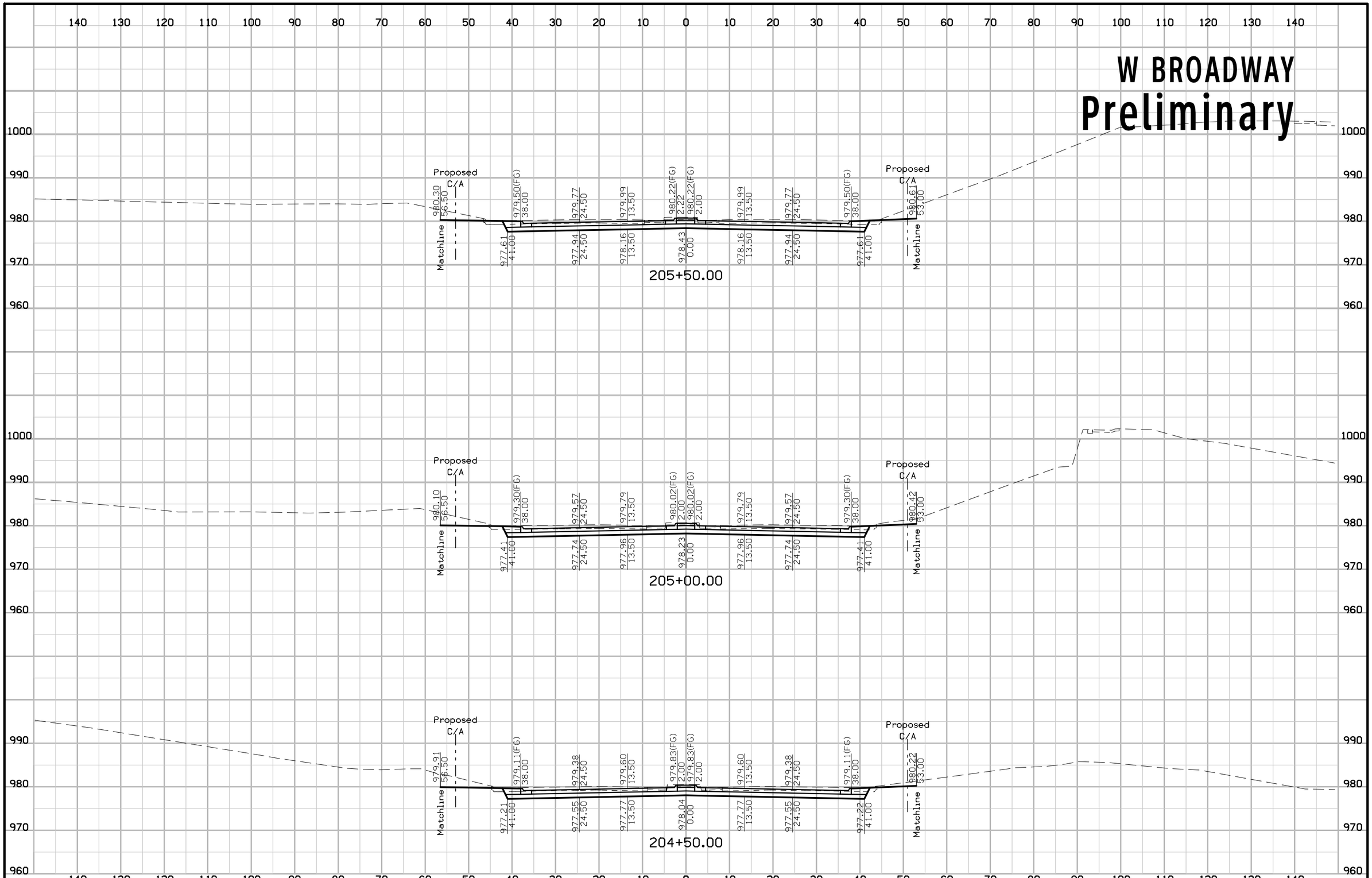
W BROADWAY

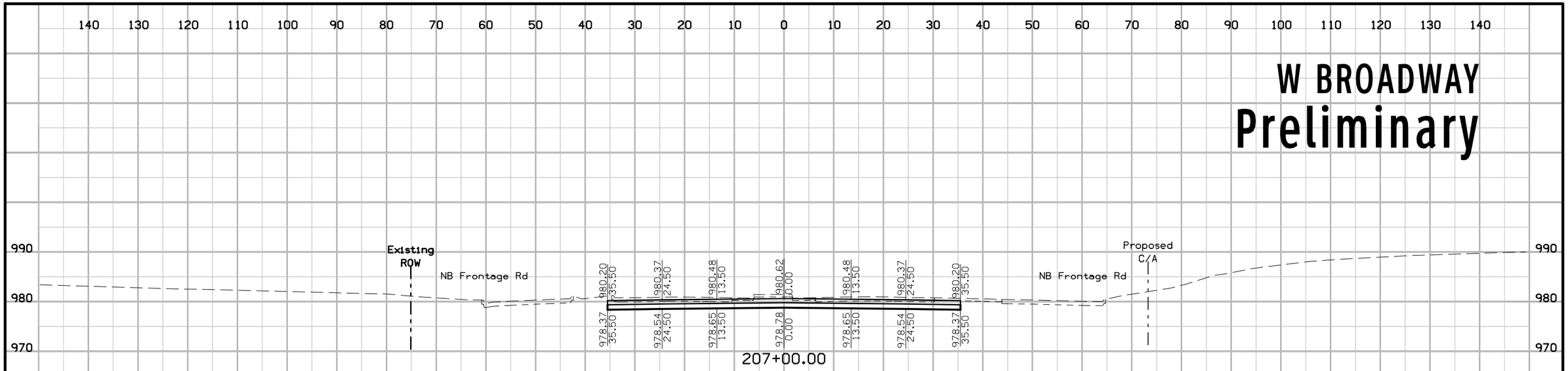
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER IM-029-3(166)54--13-78	SHEET NUMBER X.17

2:01:25 PM 10/25/2017 ddudley pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\+HR_Green\Design-HR Green\Sheeting-HR Green\78029166-HRG-X14_Brdwy.sht

W BROADWAY
Preliminary



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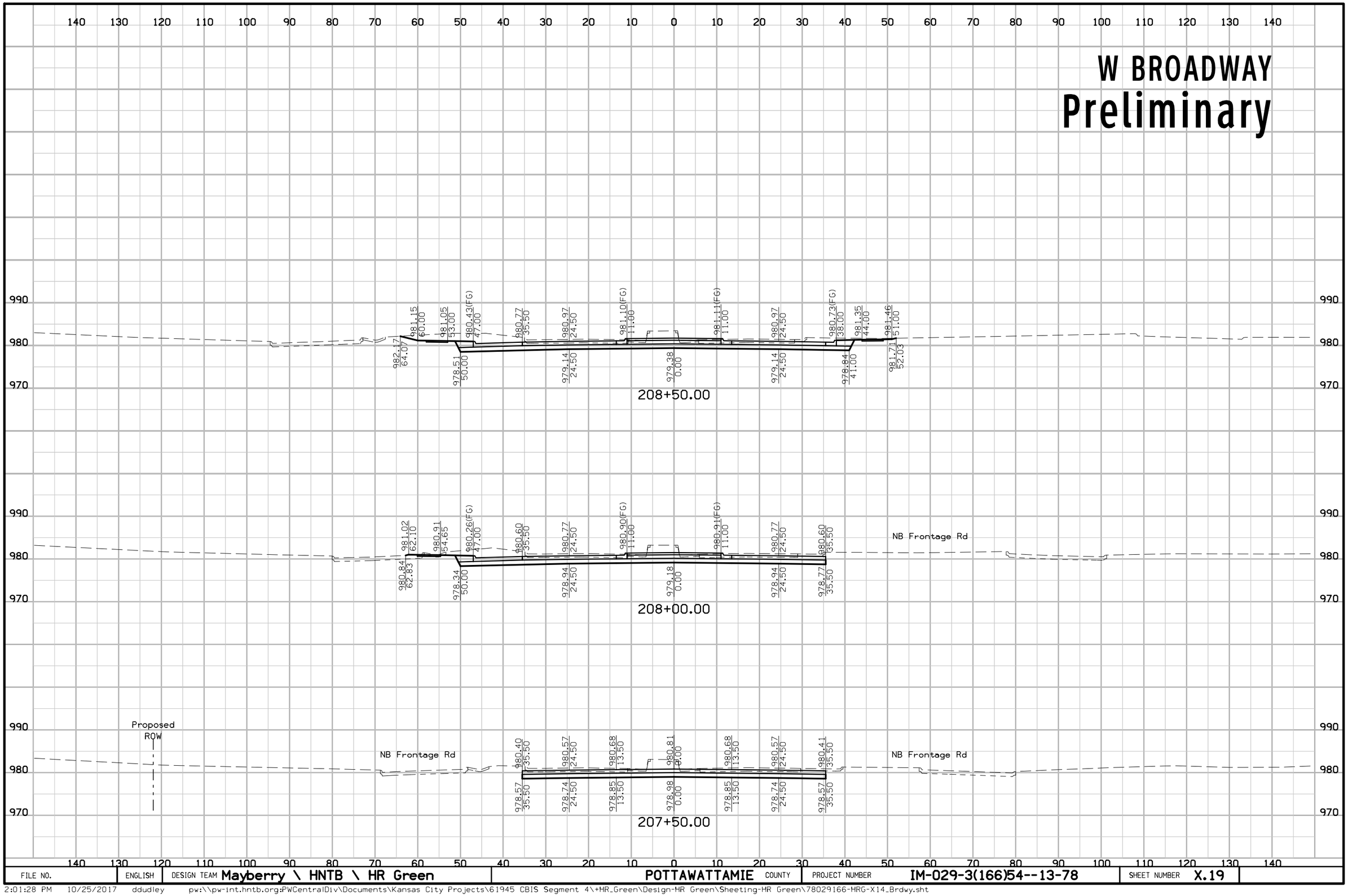
W BROADWAY
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER IM-029-3(166)54--13-78	SHEET NUMBER X.19

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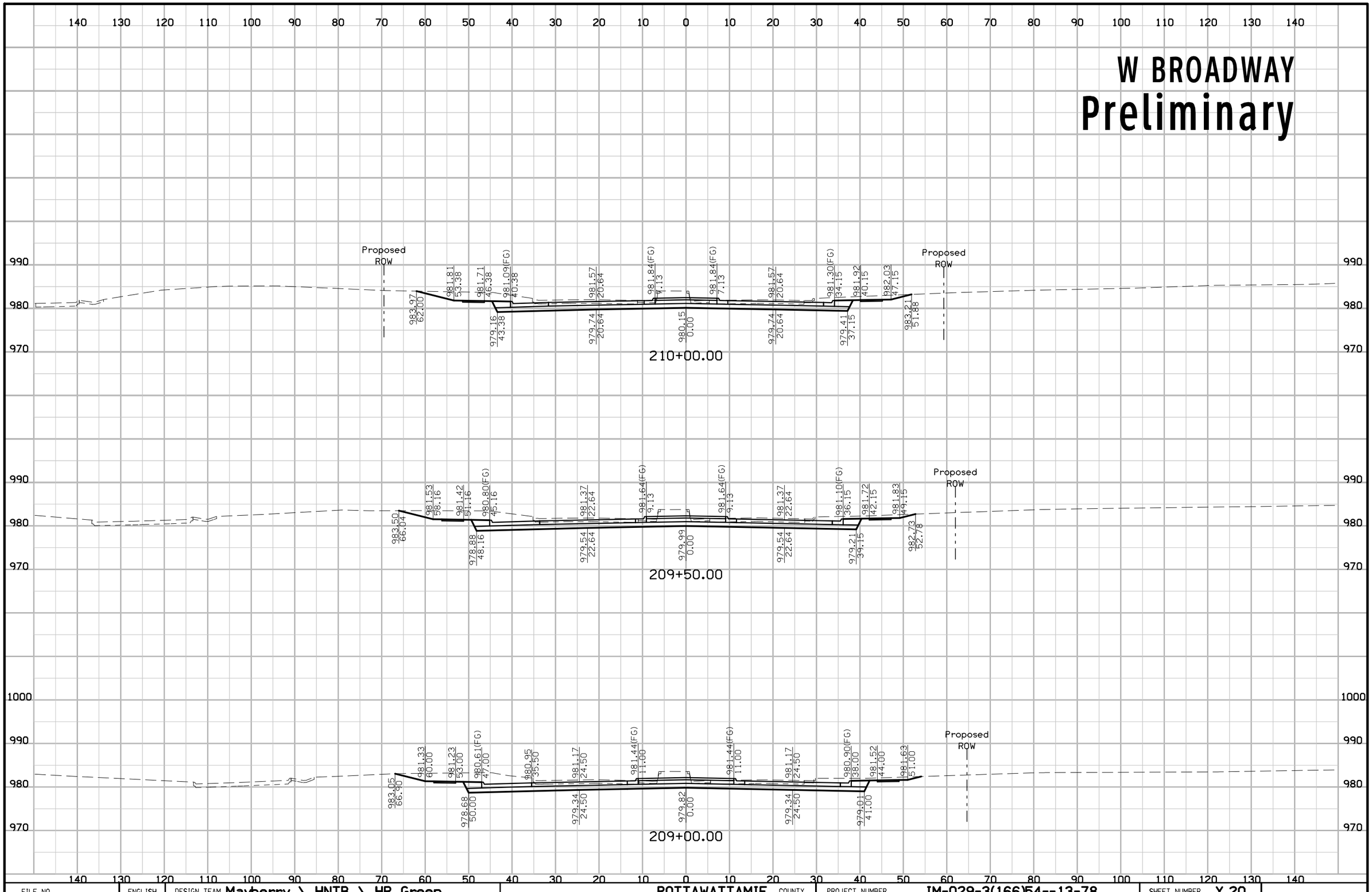
W BROADWAY

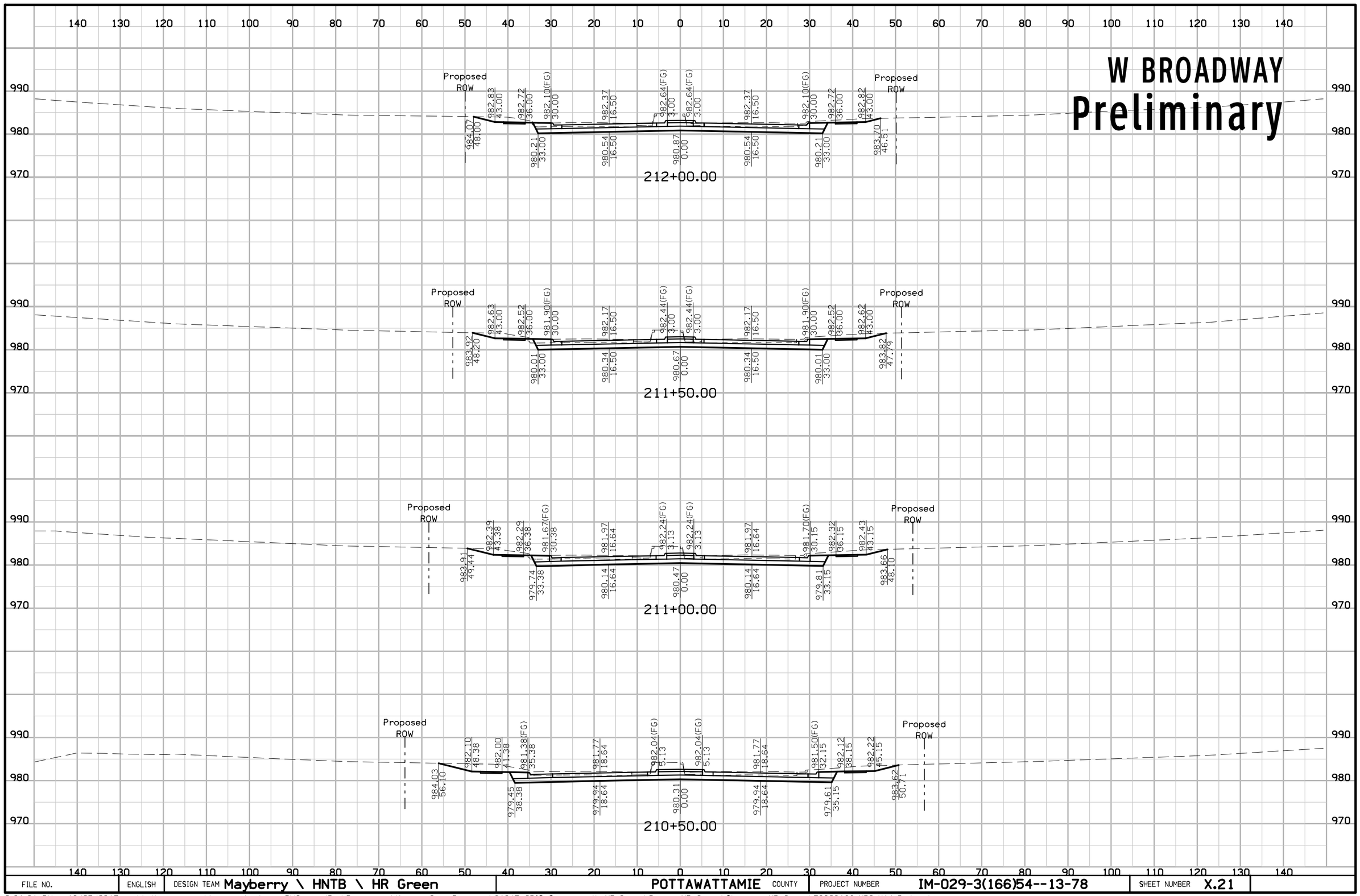
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER IM-029-3(166)54--13-78	SHEET NUMBER X.20

2:01:29 PM 10/25/2017 ddudley pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\+HR_Green\Design-HR Green\Sheeting-HR Green\78029166-HRG-X14_Brdwy.sht

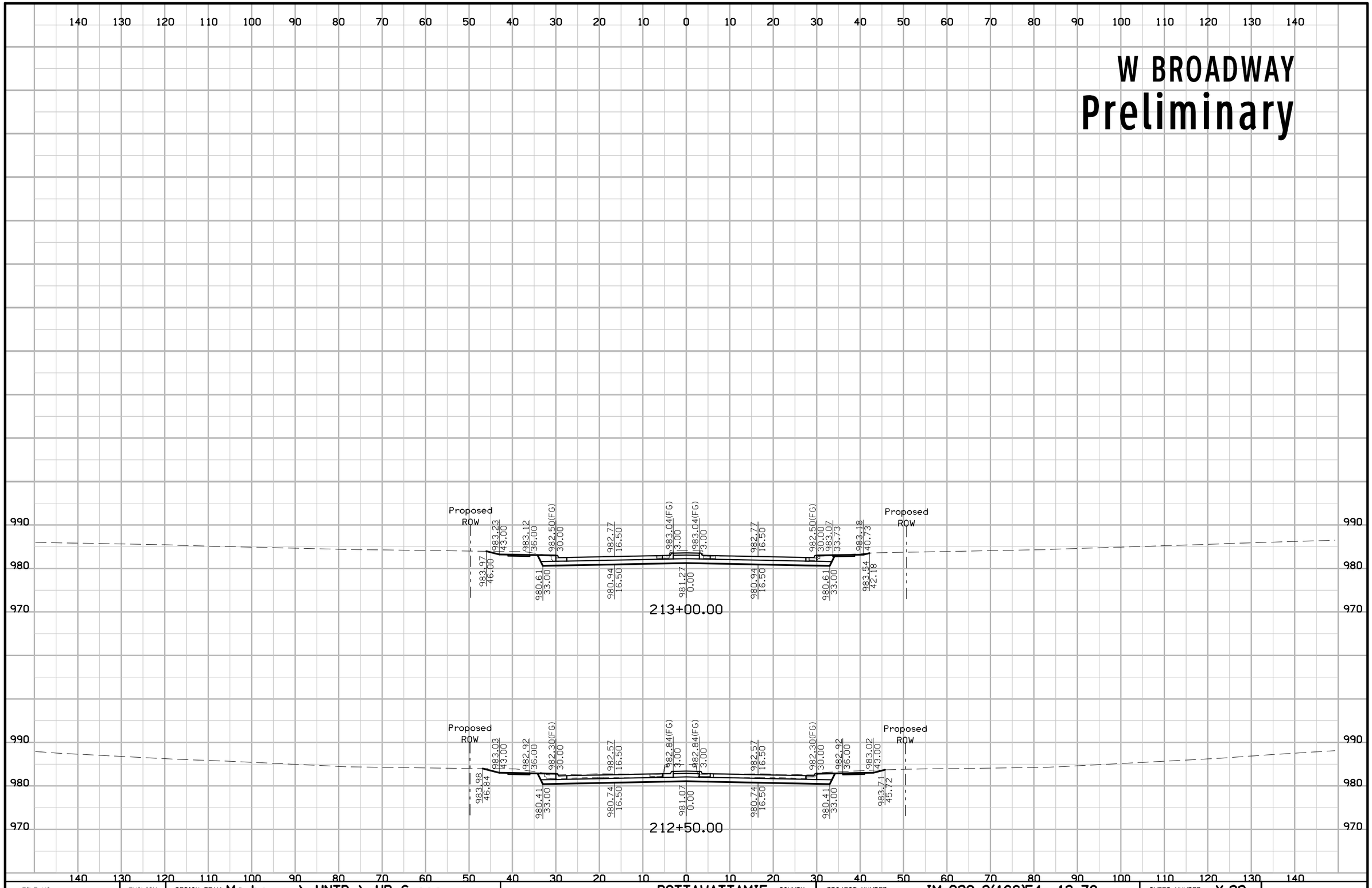
W BROADWAY
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER IM-029-3(166)54--13-78	SHEET NUMBER X.21

2:01:31 PM 10/25/2017 ddudley pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\+HR_Green\Design-HR Green\Sheeting-HR Green\78029166-HRG-X14_Brdwy.sht

W BROADWAY
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER IM-029-3(166)54--13-78	SHEET NUMBER X.22

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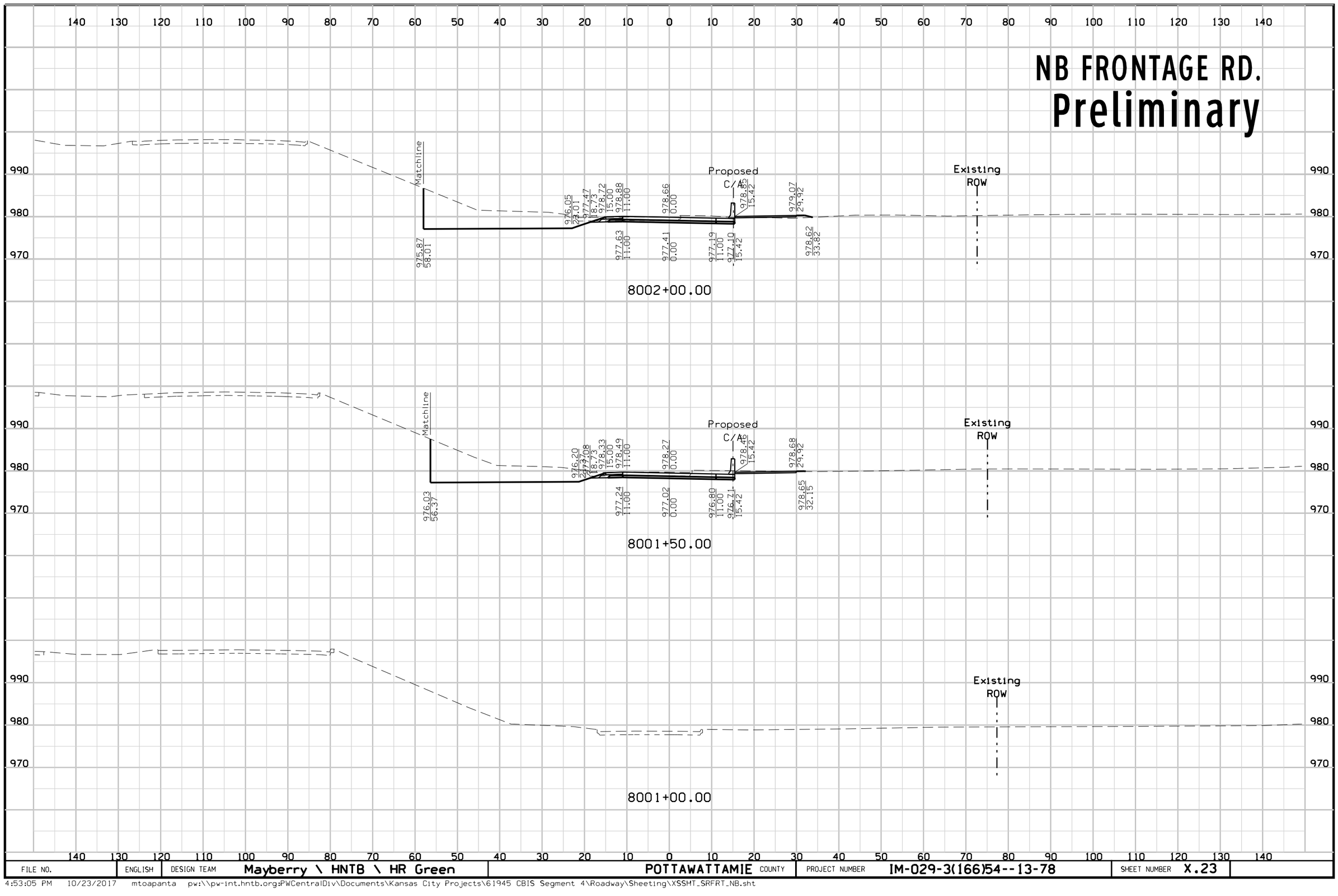
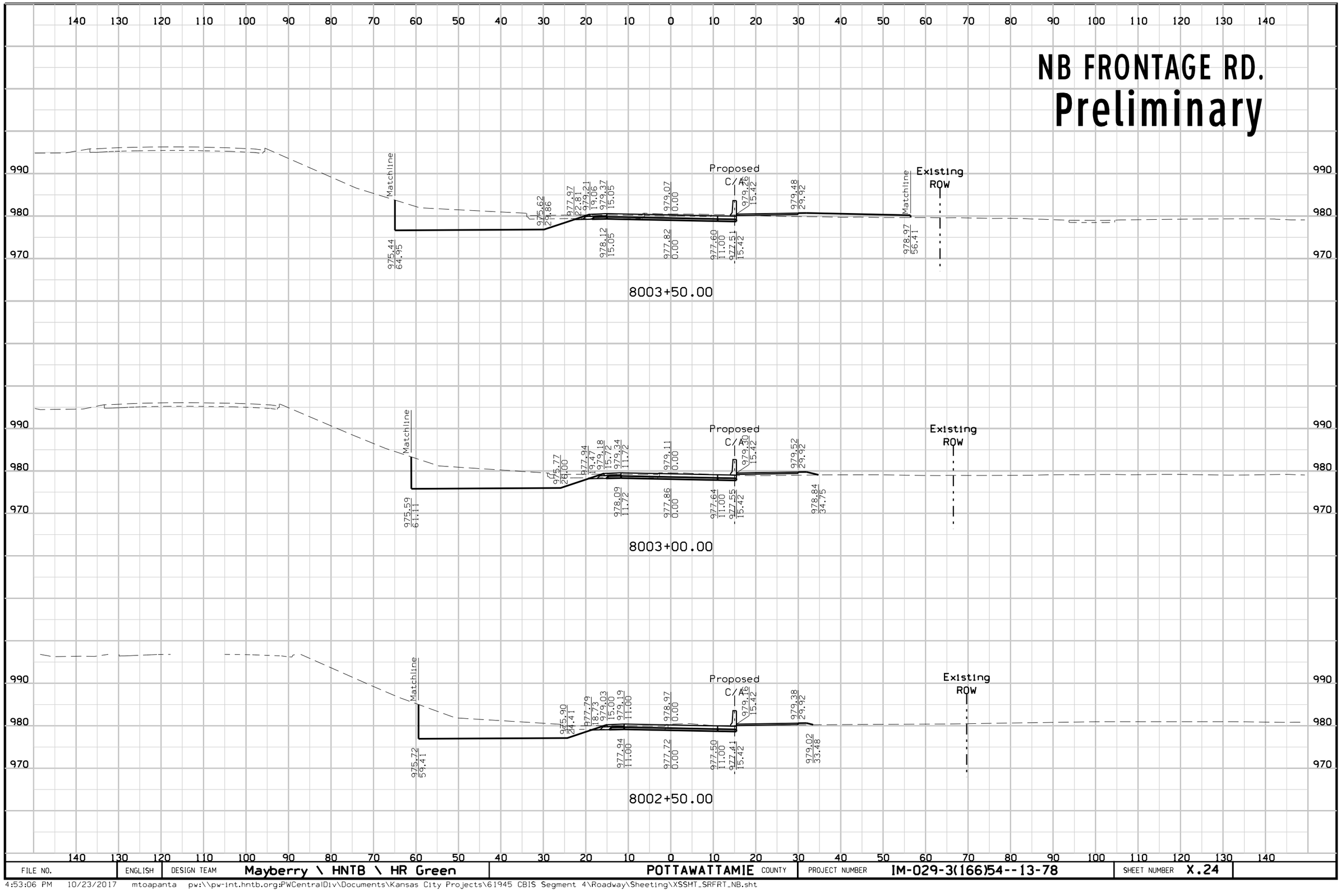
NB FRONTAGE RD.
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER	X.23

4:53:05 PM 10/23/2017 mtoapanta pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\XSSHT_SRFRT_NB.sht

NB FRONTAGE RD.
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER	X.24

4:53:06 PM 10/23/2017 mtoapanta pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\XSSHT_SRFRT_NB.sht

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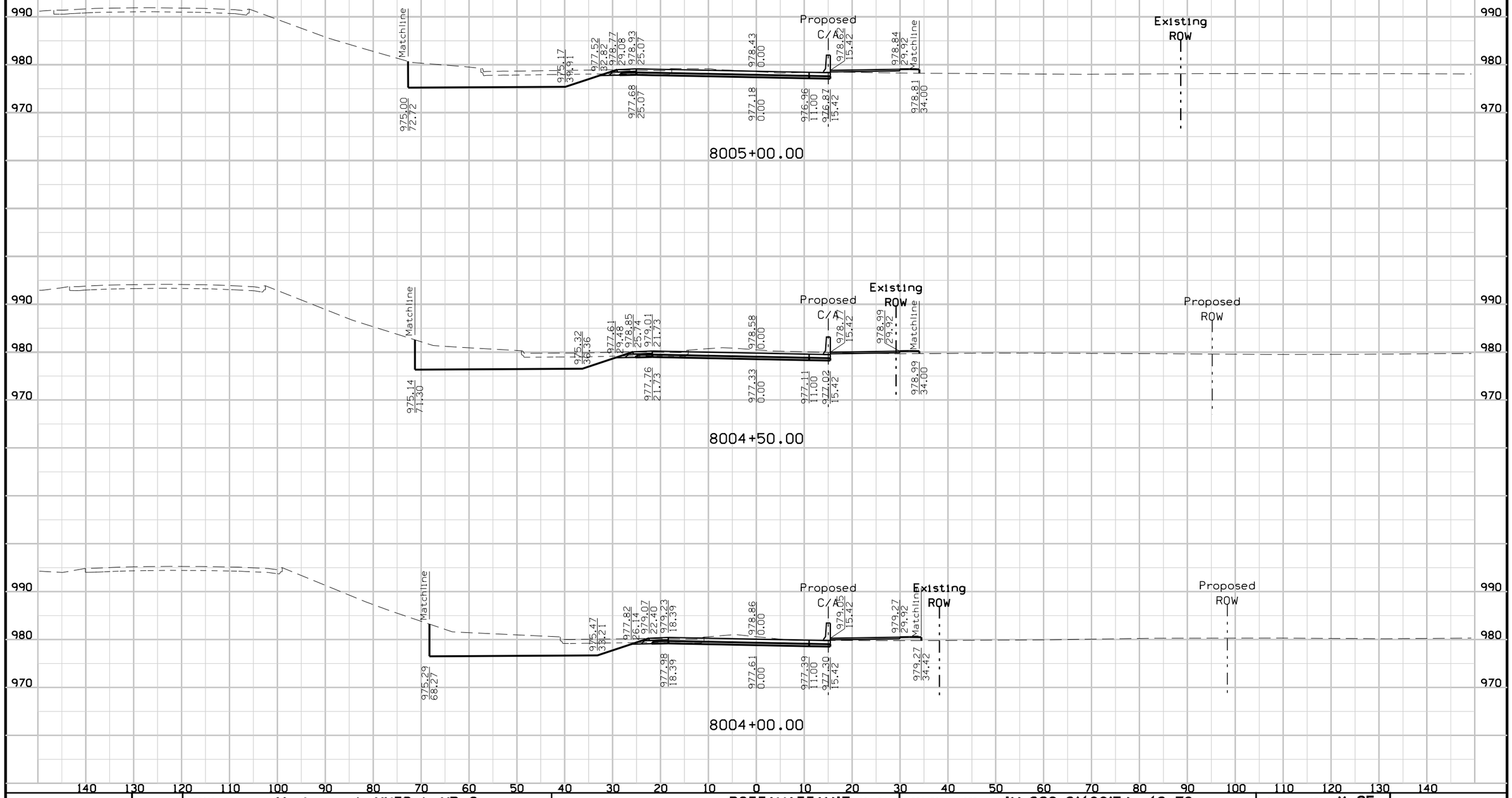
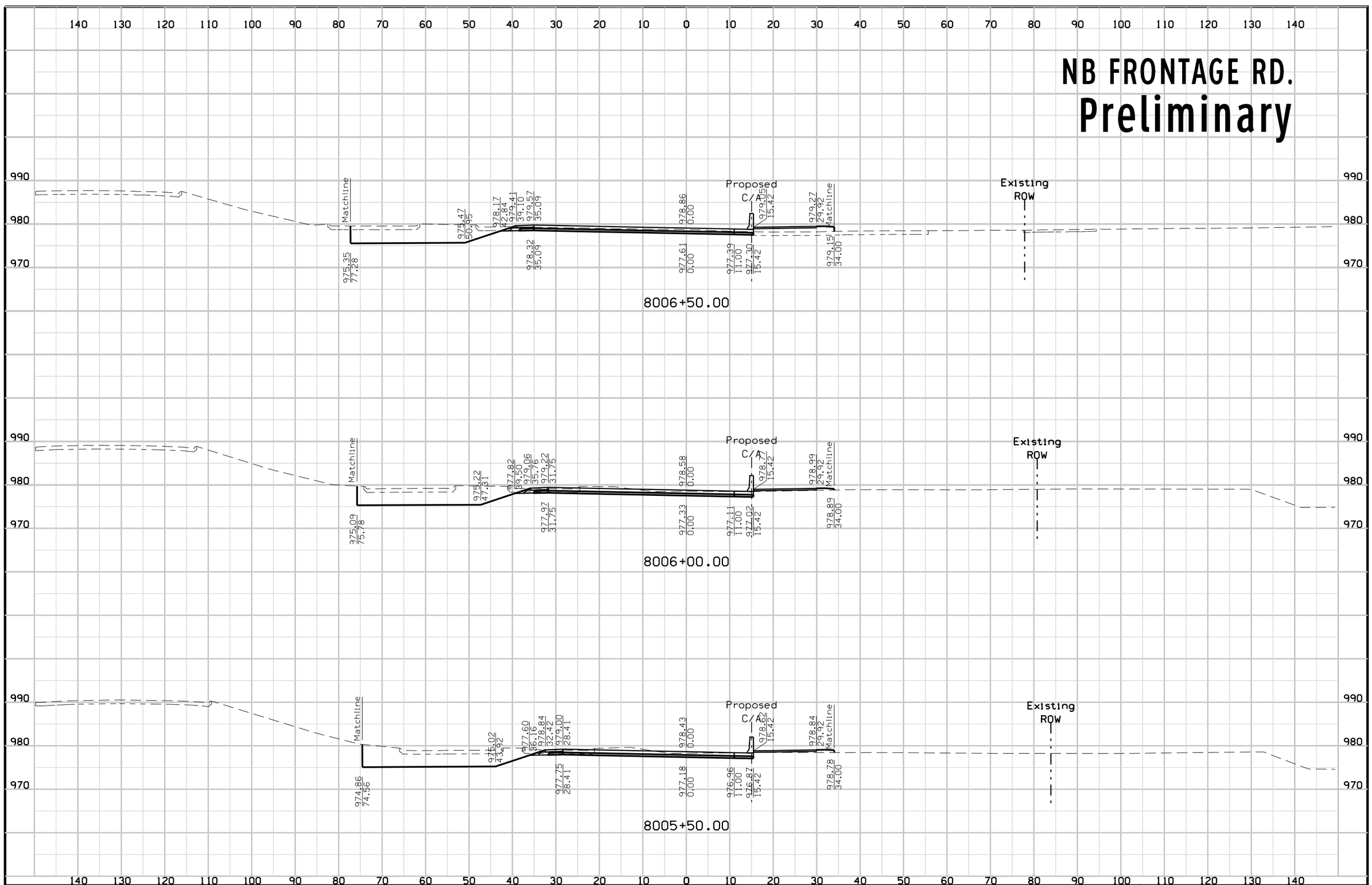
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER	X.25

4:53:07 PM 10/23/2017 mtoapanta pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\XSSHT_SRFRT_NB.sht

NB FRONTAGE RD.
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER	X.26

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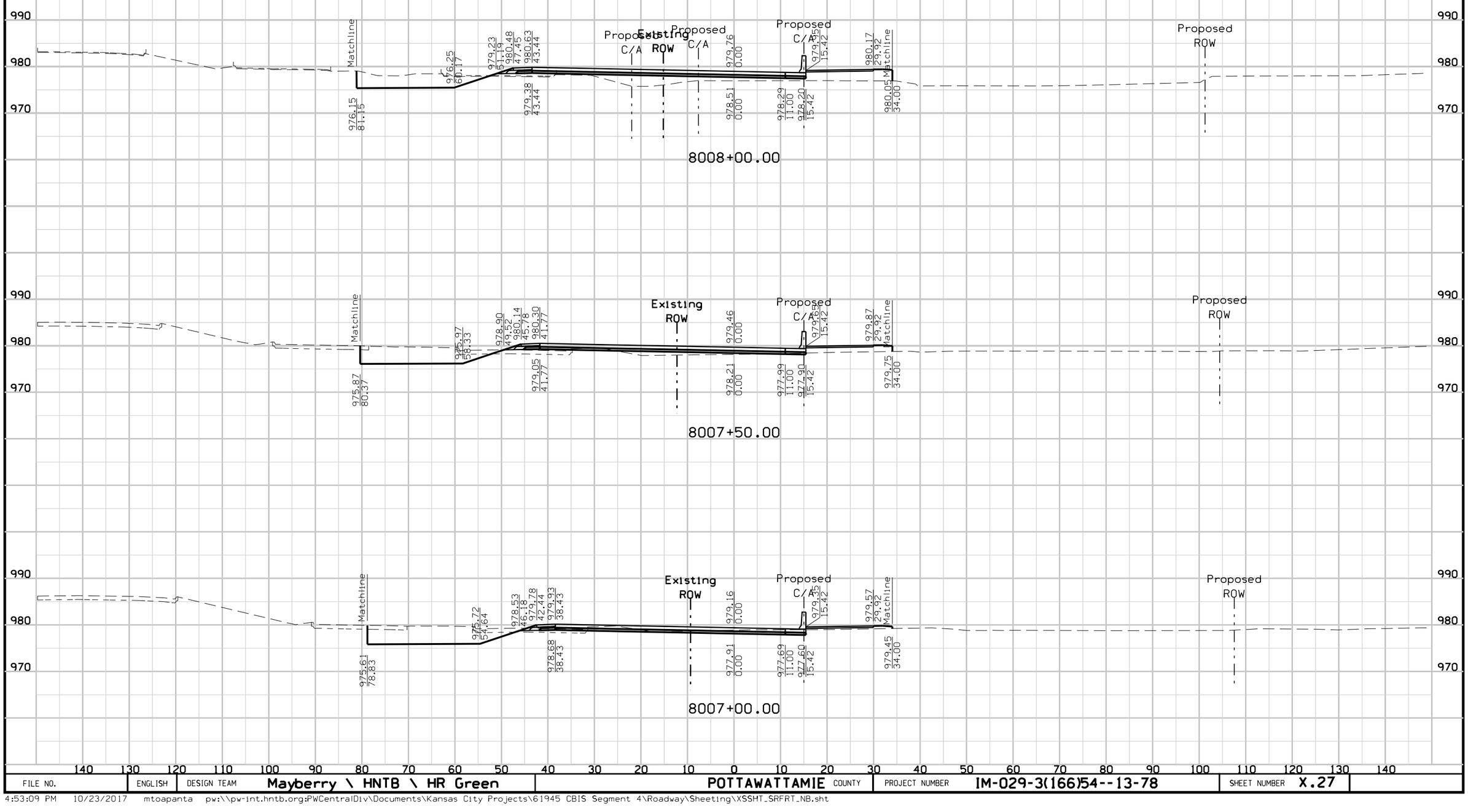

FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER	X.27

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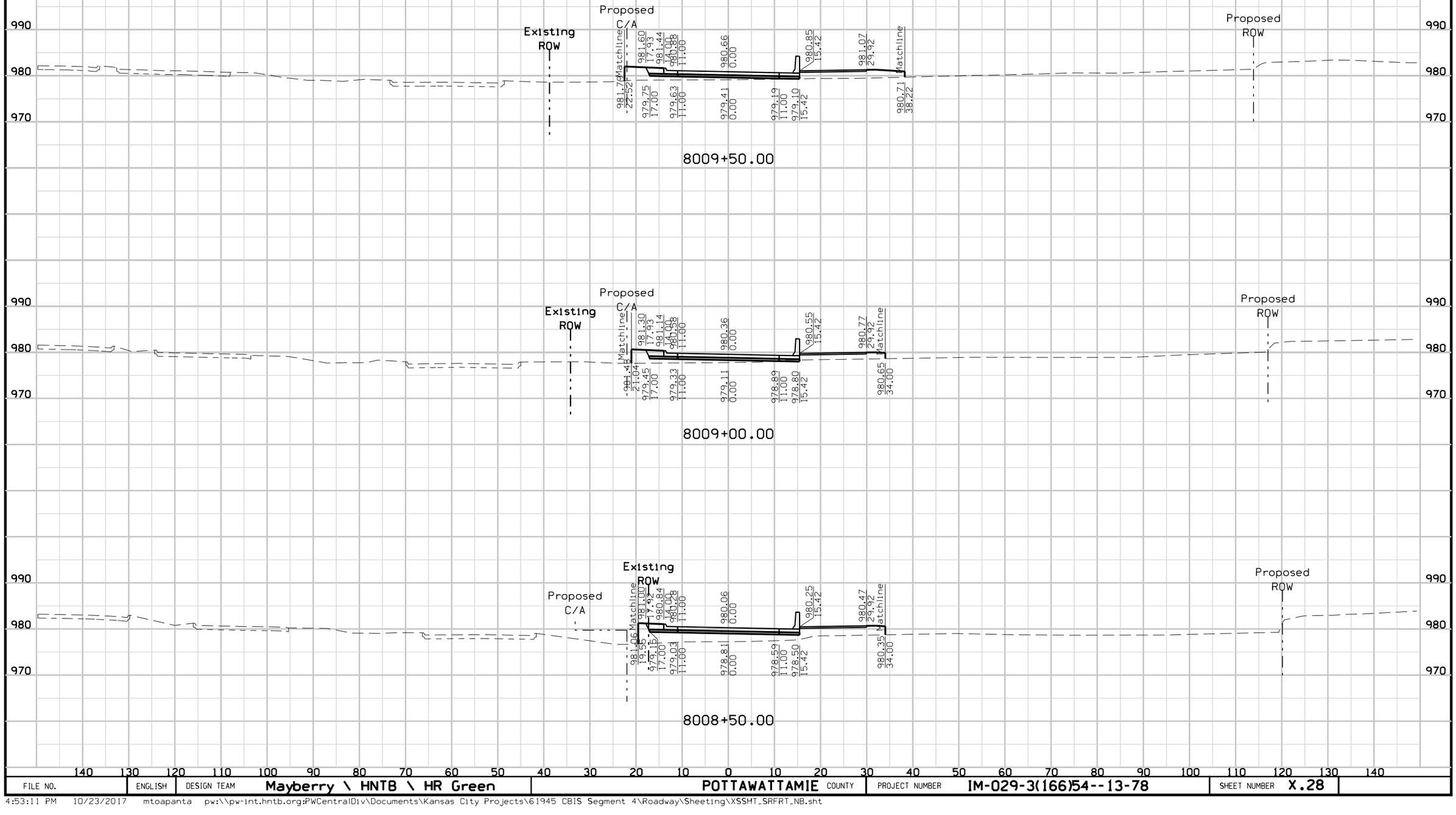

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4:53:11 PM 10/23/2017 mtoapanta pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\XSSHT_SRFRT_NB.sht

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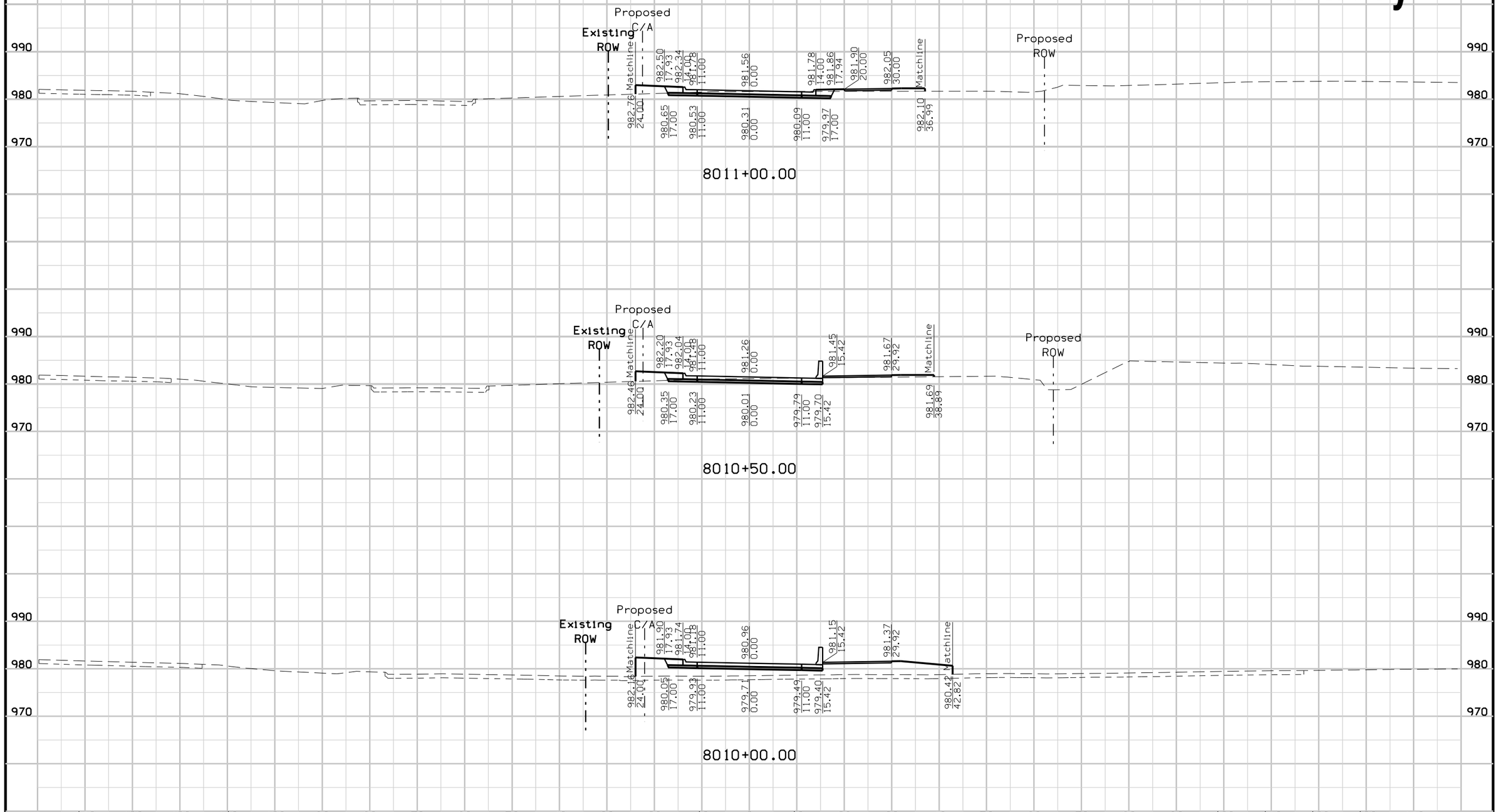

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4:53:12 PM 10/23/2017 mtoapanta pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\XSSHT_SRFRT_NB.sht

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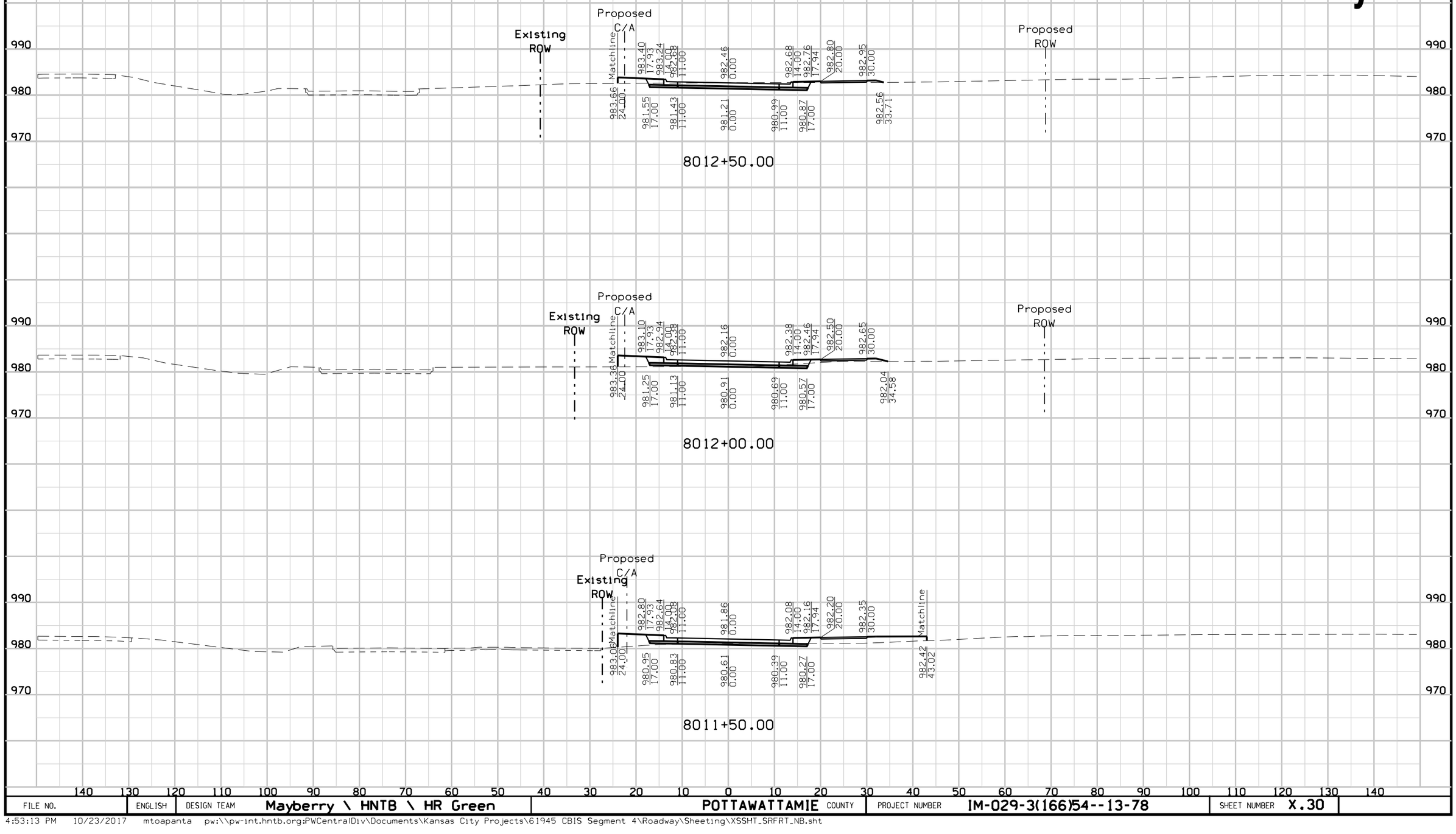
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER	X.30

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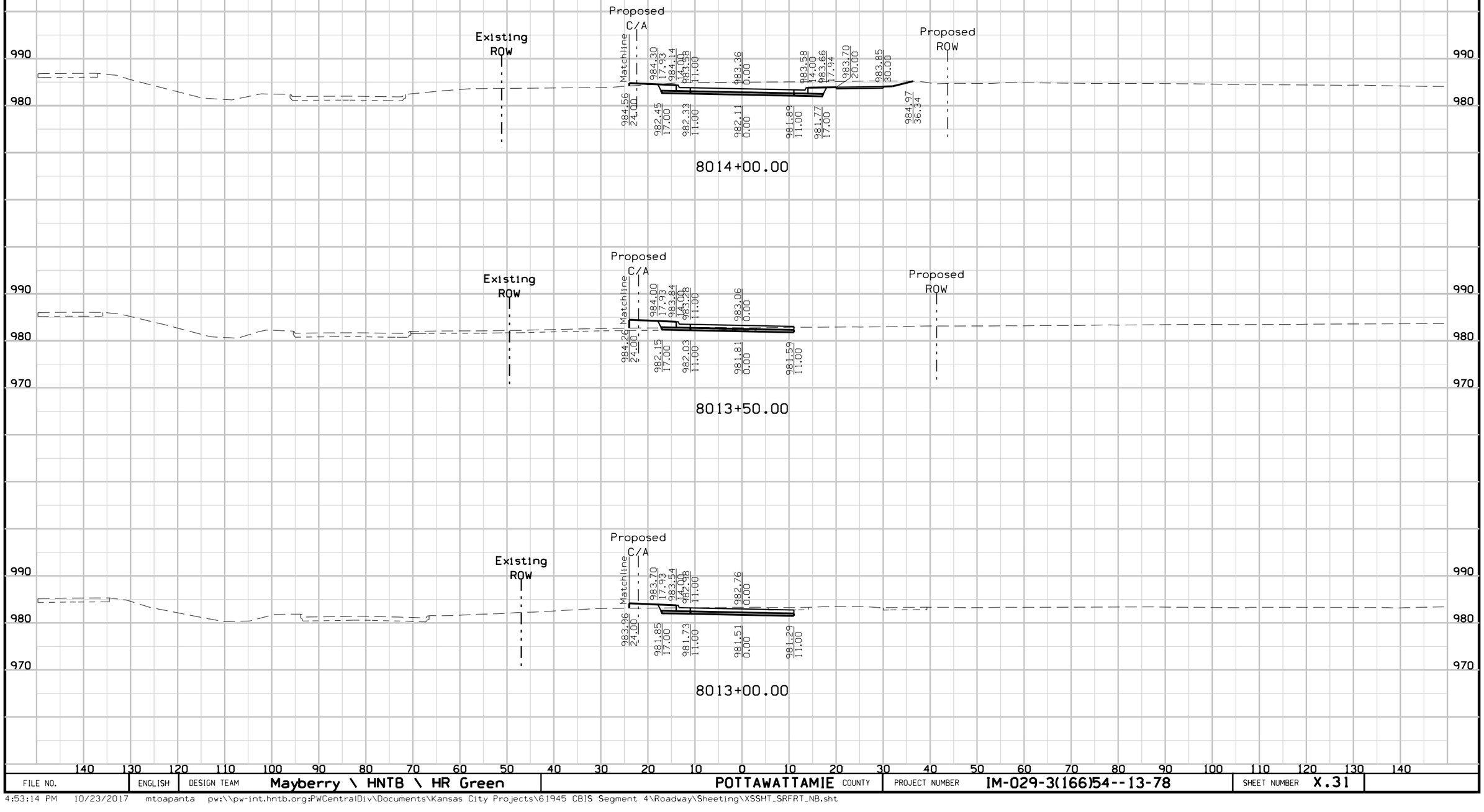
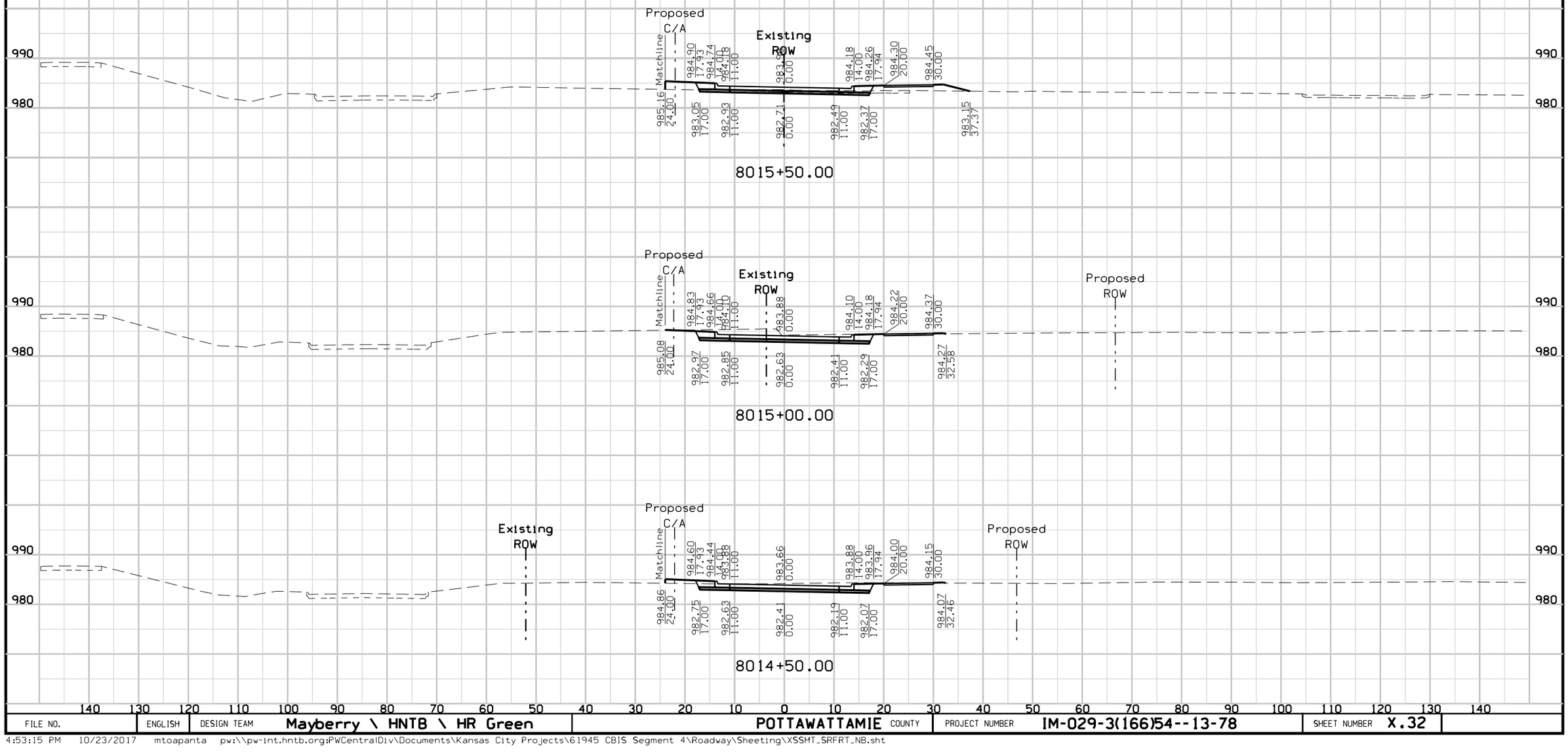


FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER	X.31

NB FRONTAGE RD.

Preliminary



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER	X.32

4:53:15 PM 10/23/2017 mtoapanta pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\XSSHT_SRFRT_NB.sht

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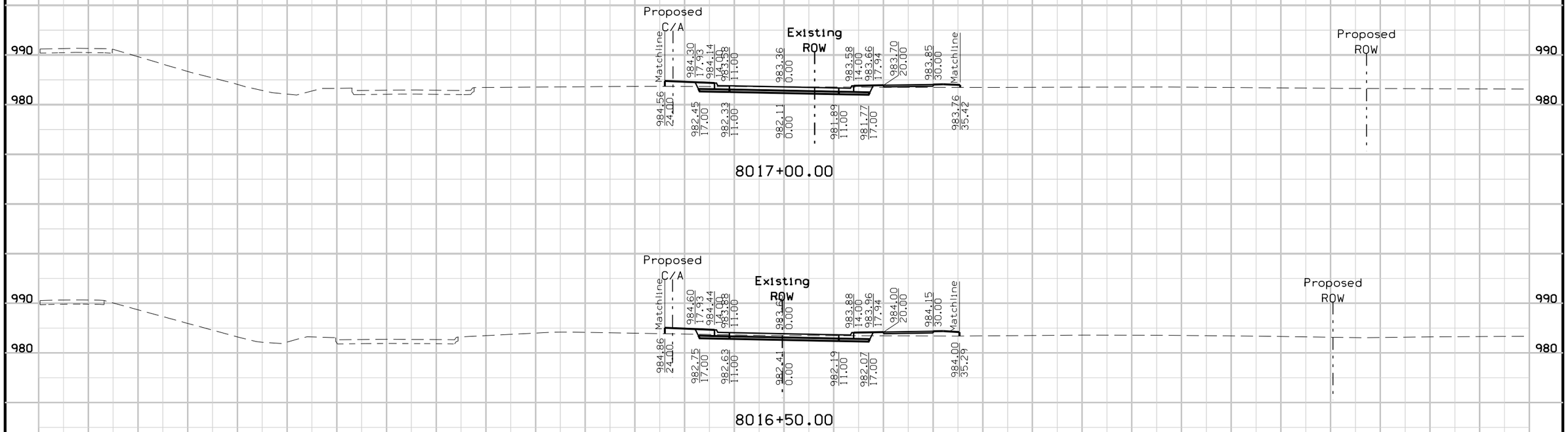

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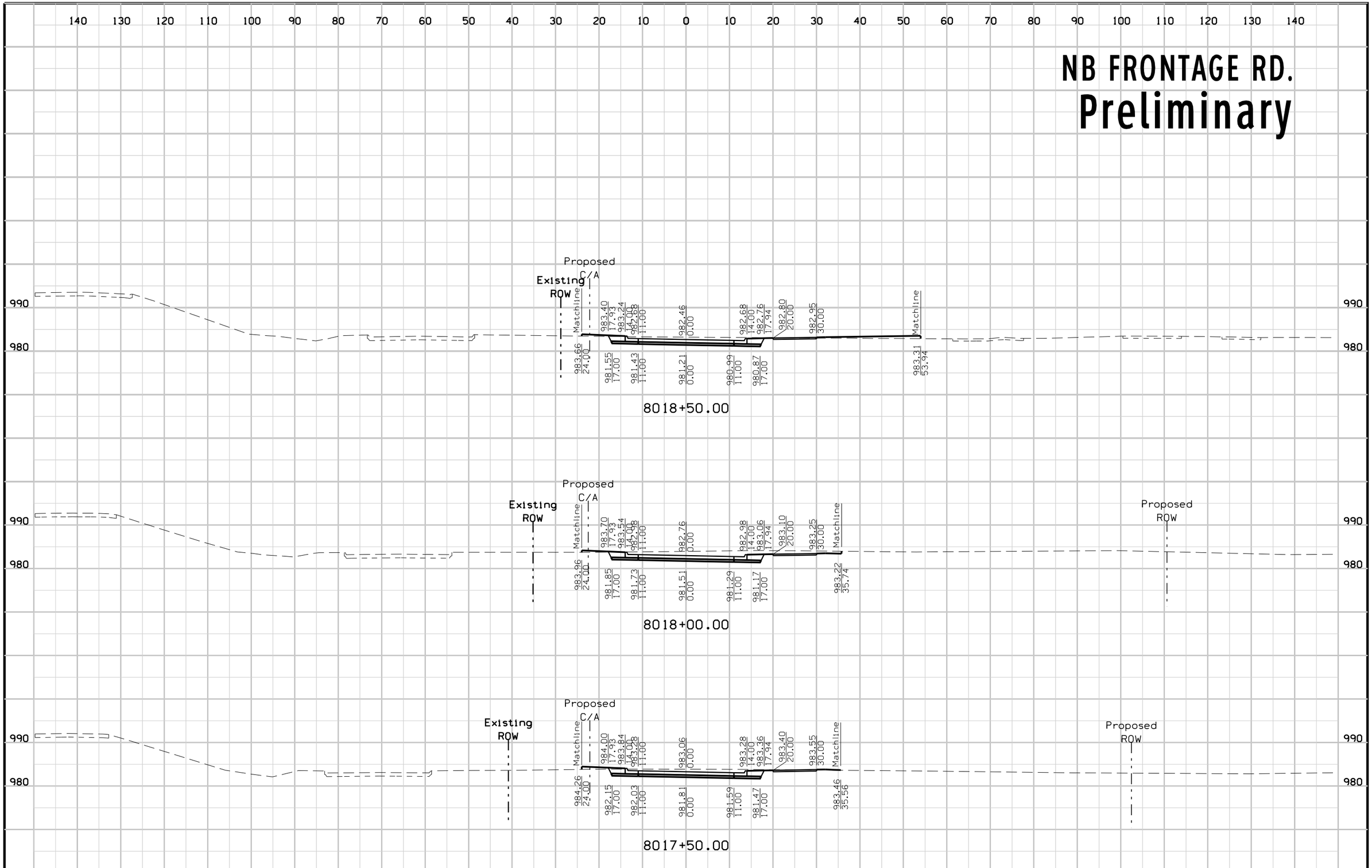
NB FRONTAGE RD.
Preliminary



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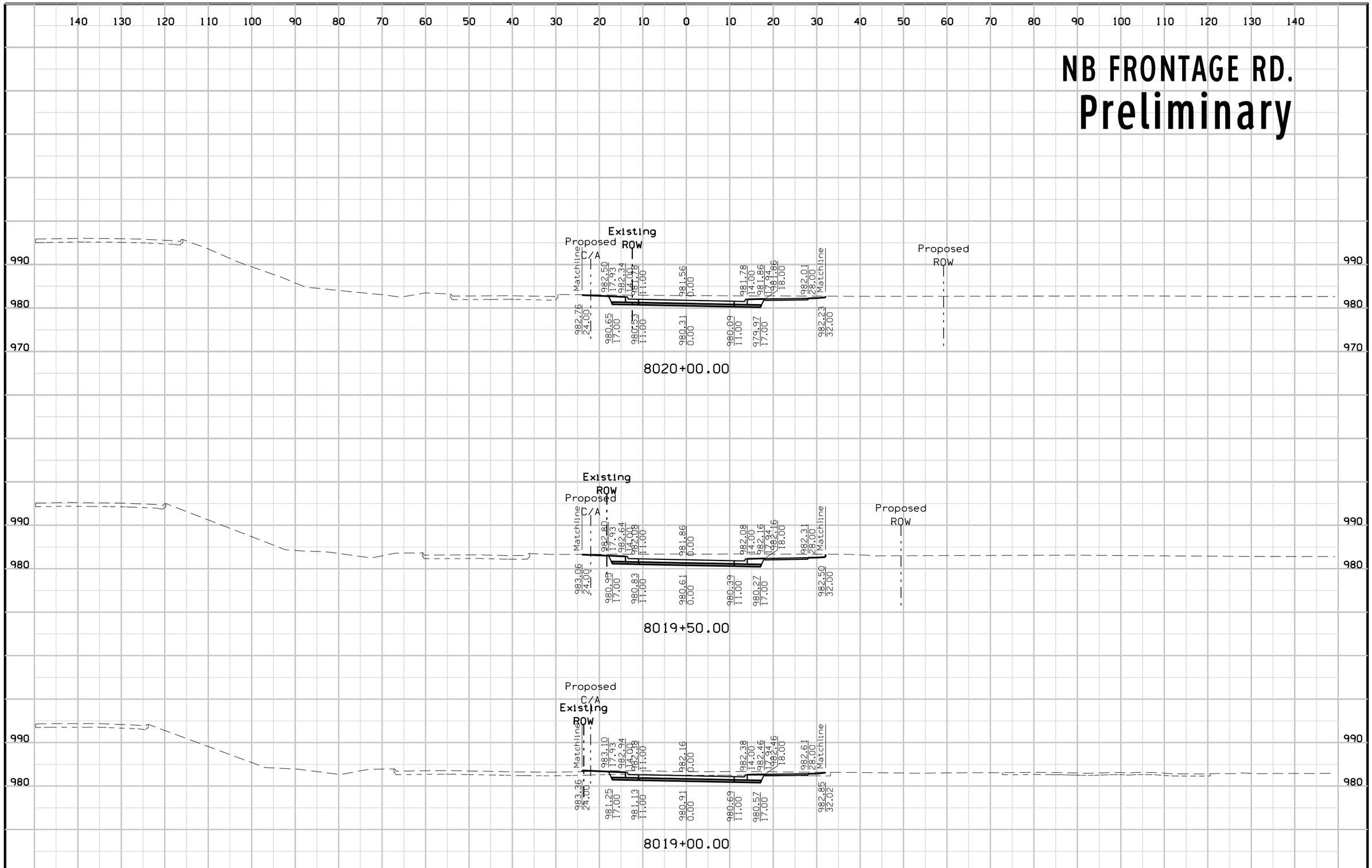
Preliminary



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4:53:19 PM 10/23/2017 mtoapanta pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\XSSHT_SRFRT_NB.sht

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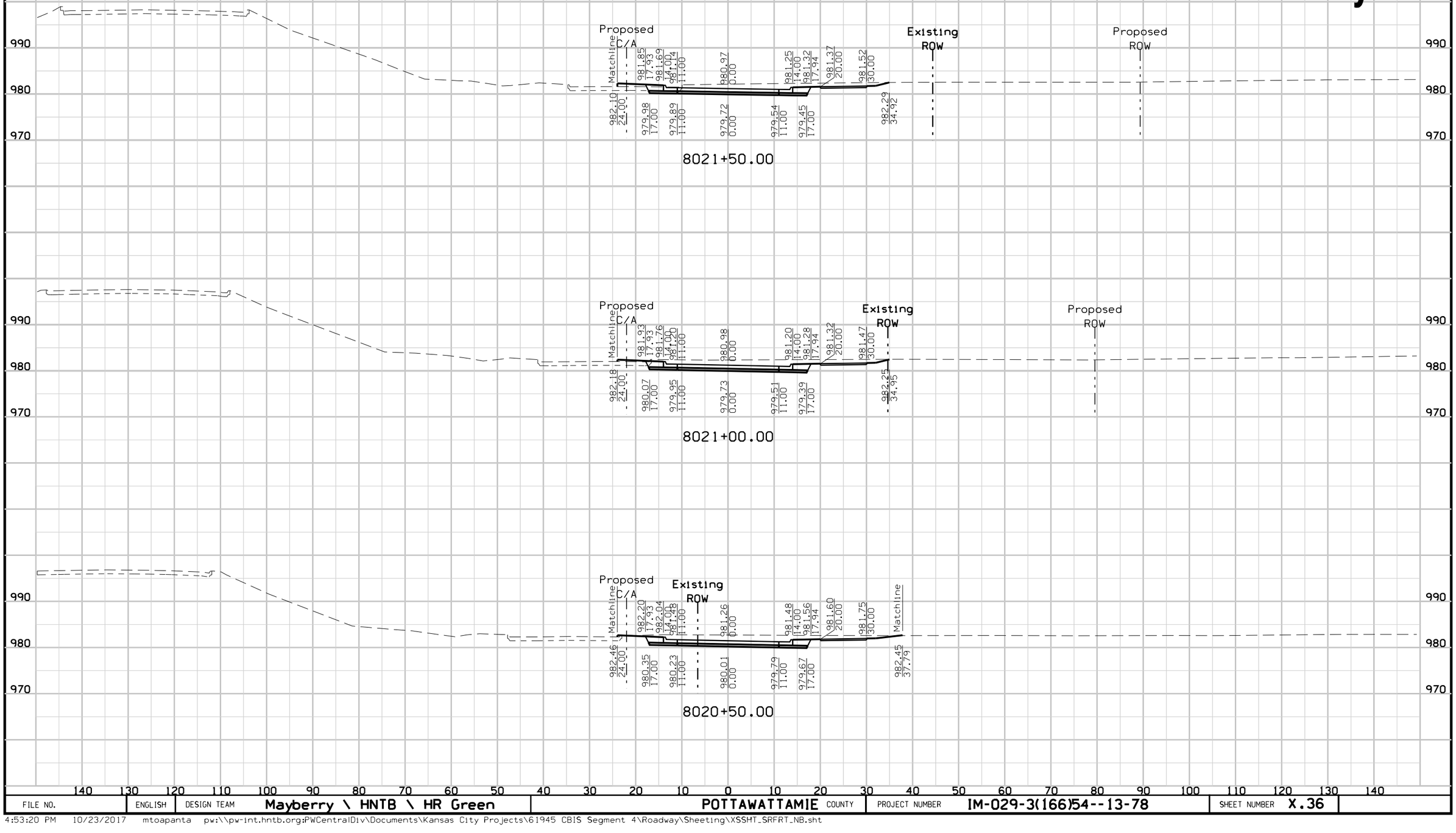

FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER	X.36

4:53:20 PM 10/23/2017 mtoapanta pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\XSSHT_SRFRT_NB.sht

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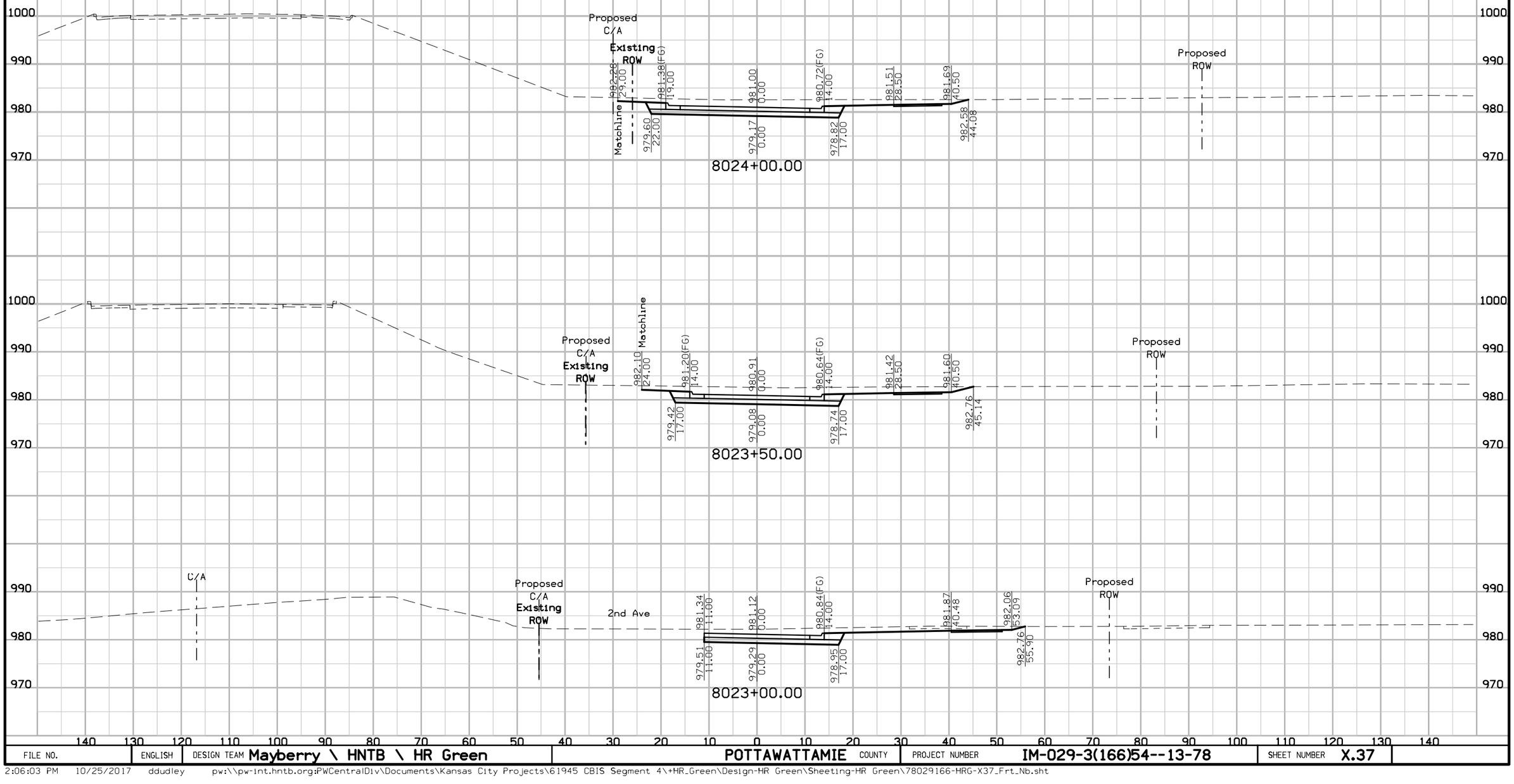
Preliminary



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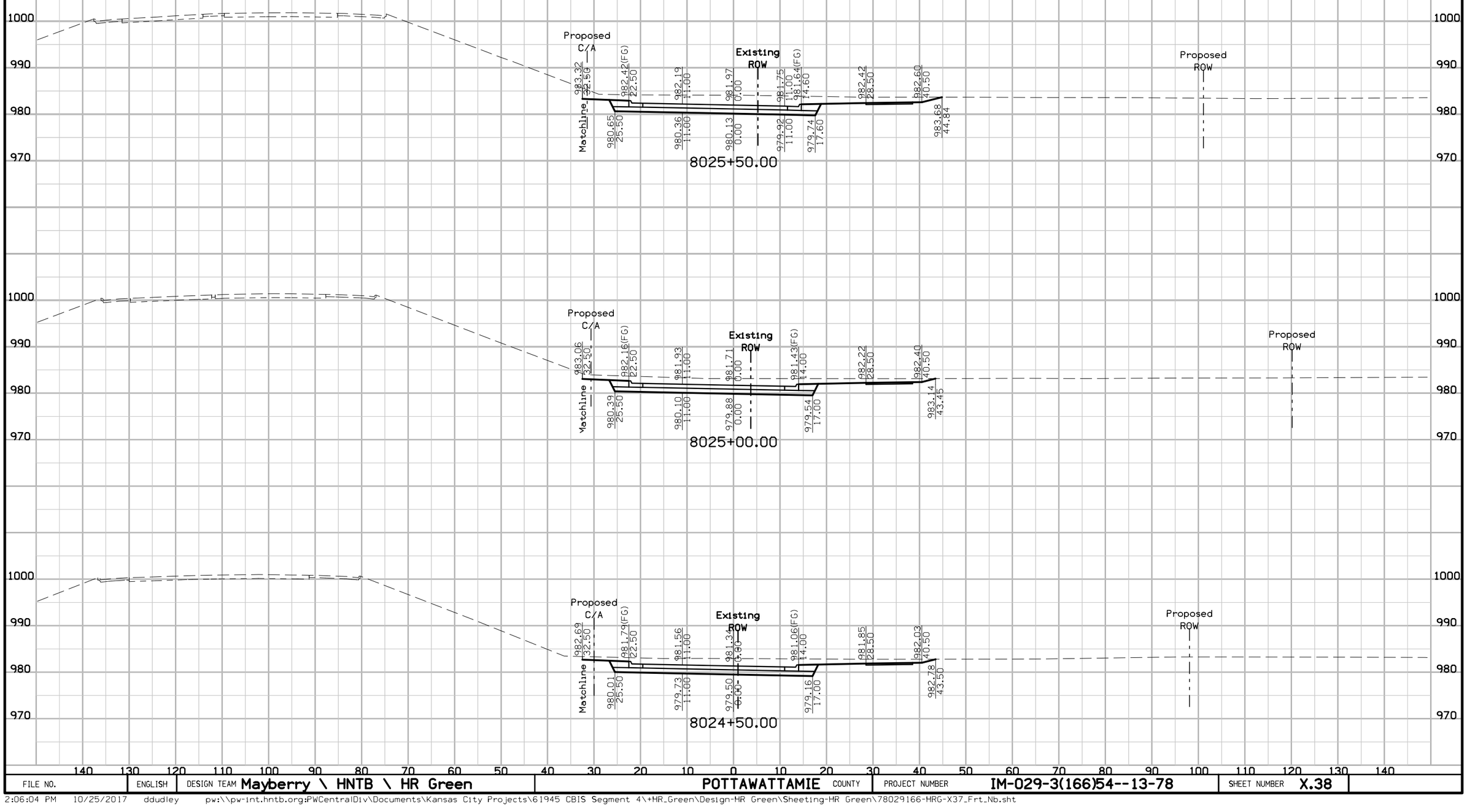
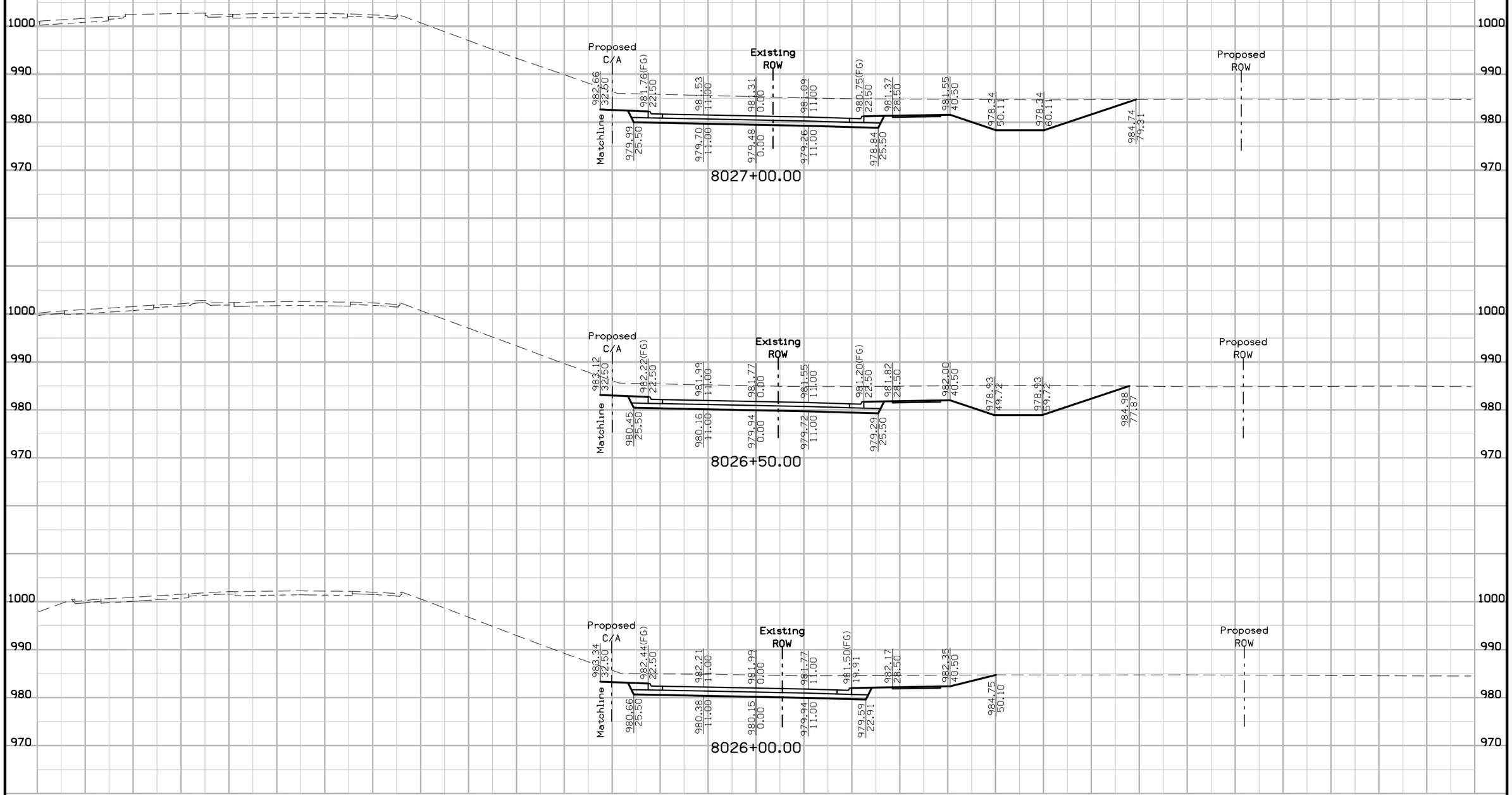
NB FRONTAGE RD
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER IM-029-3(166)54--13-78	SHEET NUMBER X.38

2:06:04 PM 10/25/2017 ddudley pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\+HR_Green\Design-HR Green\Sheeting-HR Green\78029166-HRG-X37_Frt_Nb.sht

NB FRONTAGE RD
Preliminary



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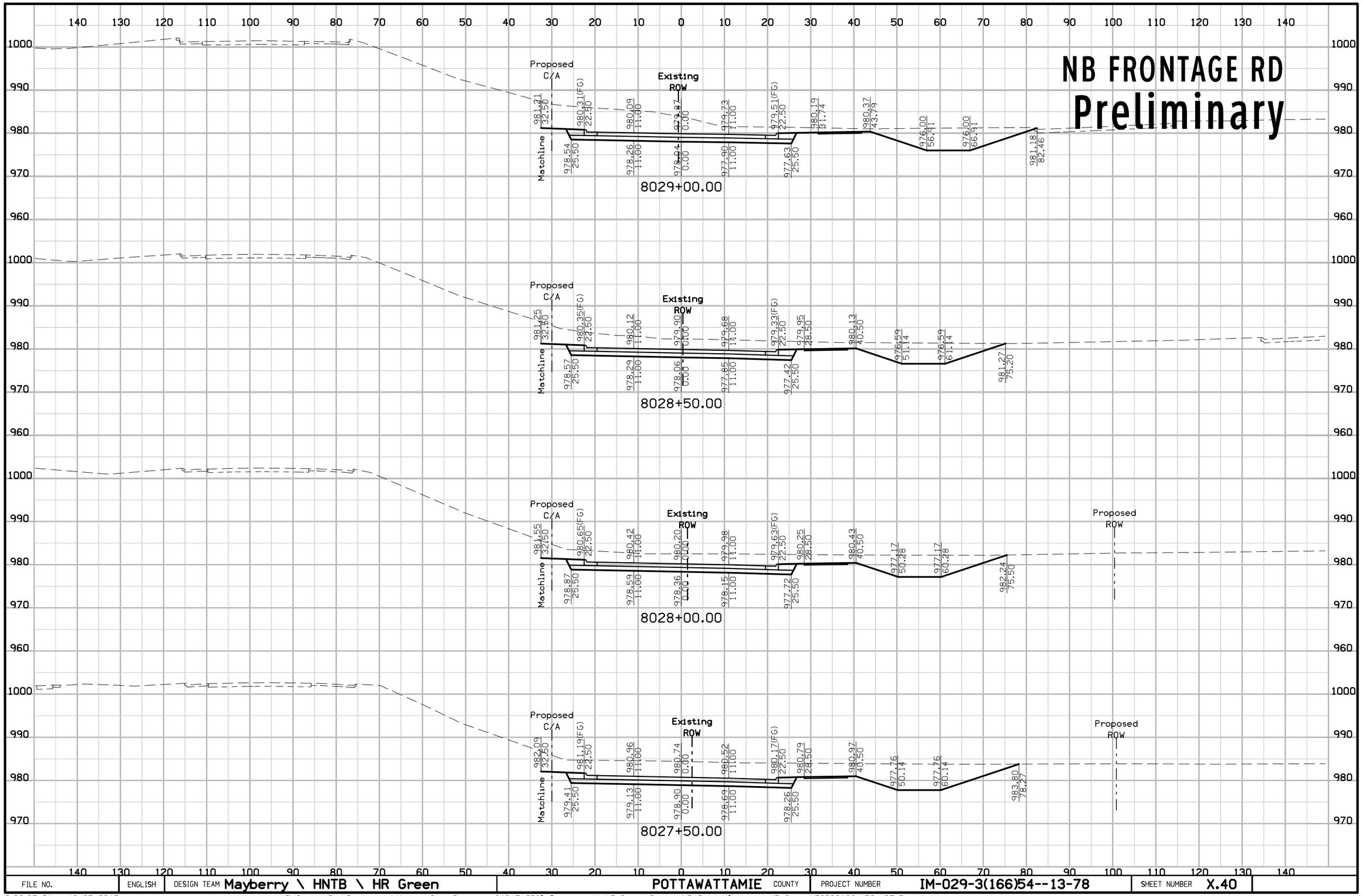
NB FRONTAGE RD

Preliminary



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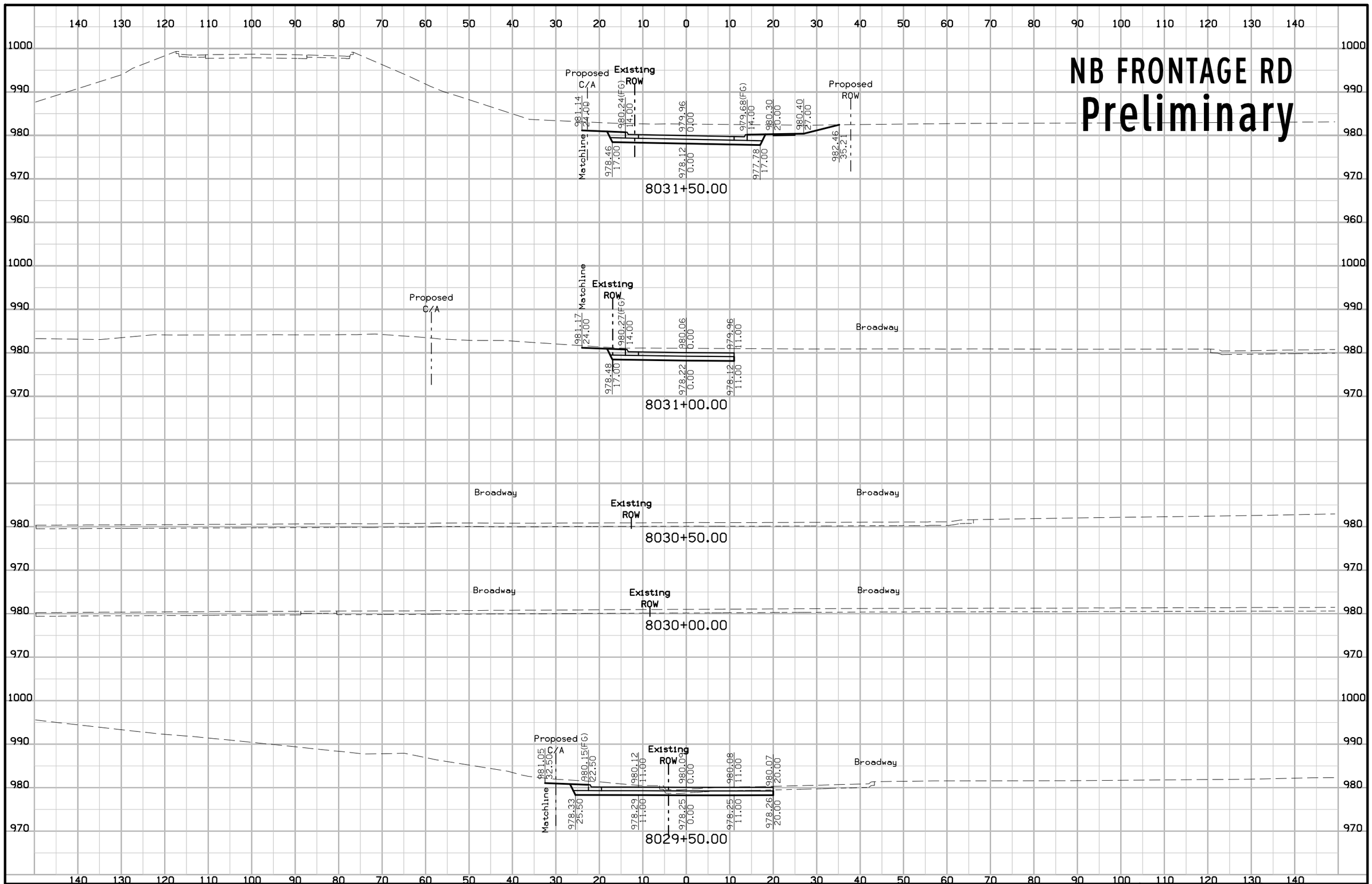
NB FRONTAGE RD
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER IM-029-3(166)54--13-78	SHEET NUMBER X.41

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NB FRONTAGE RD
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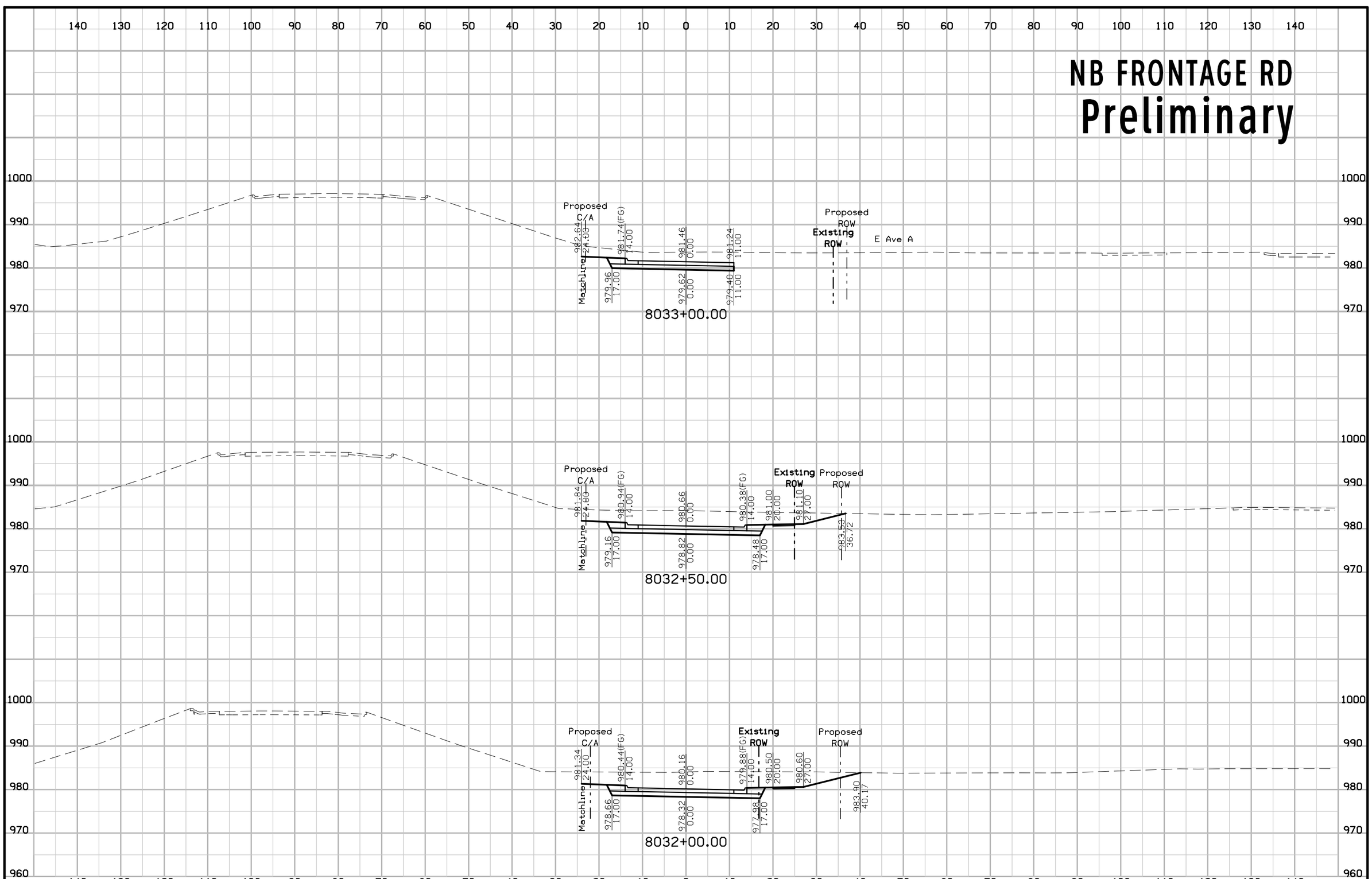
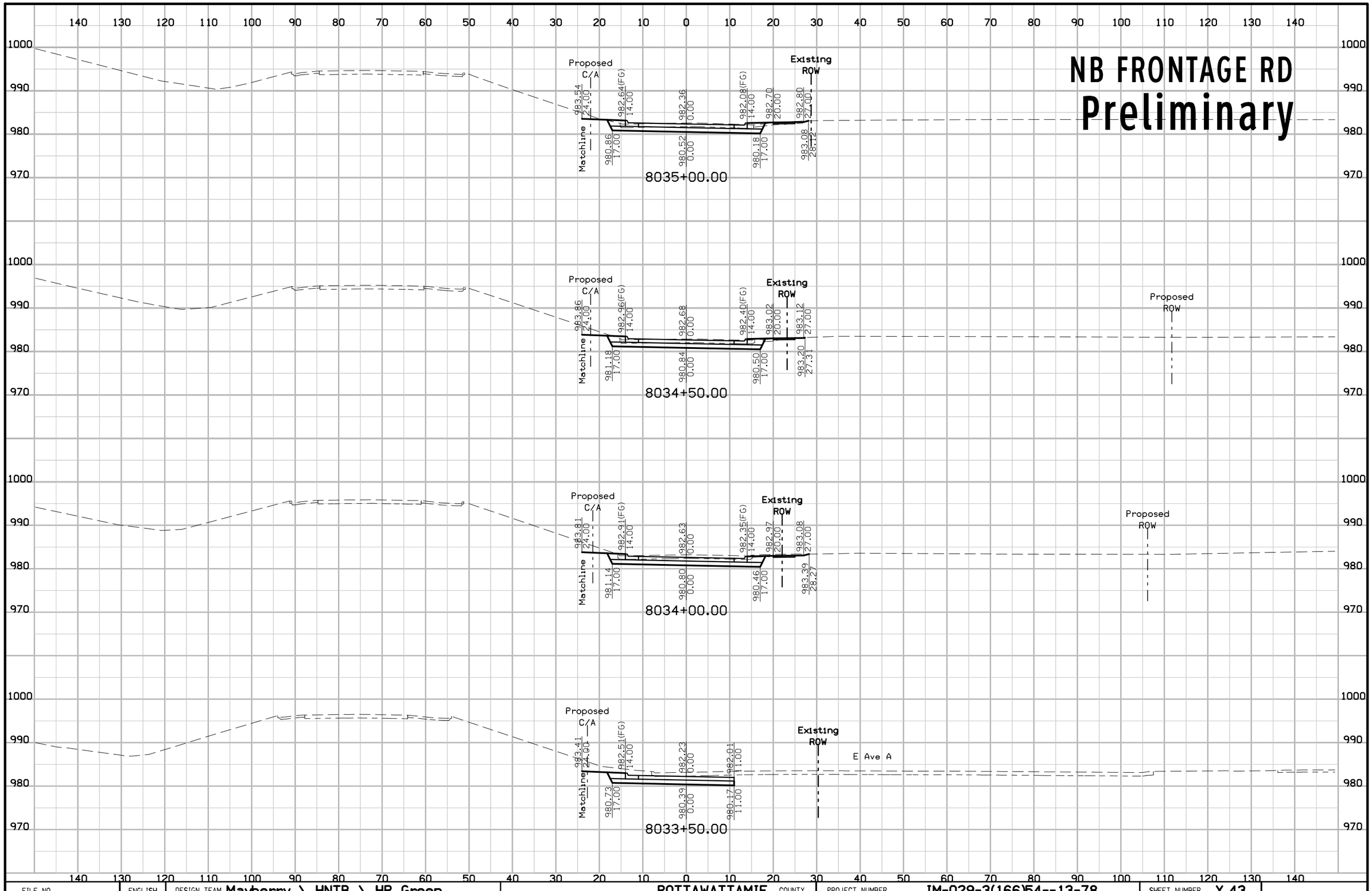


FILE NO.	ENGLISH	DESIGN TEAM Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER IM-029-3(166)54--13-78	SHEET NUMBER X.42

NB FRONTAGE RD
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER IM-029-3(166)54--13-78	SHEET NUMBER X.43

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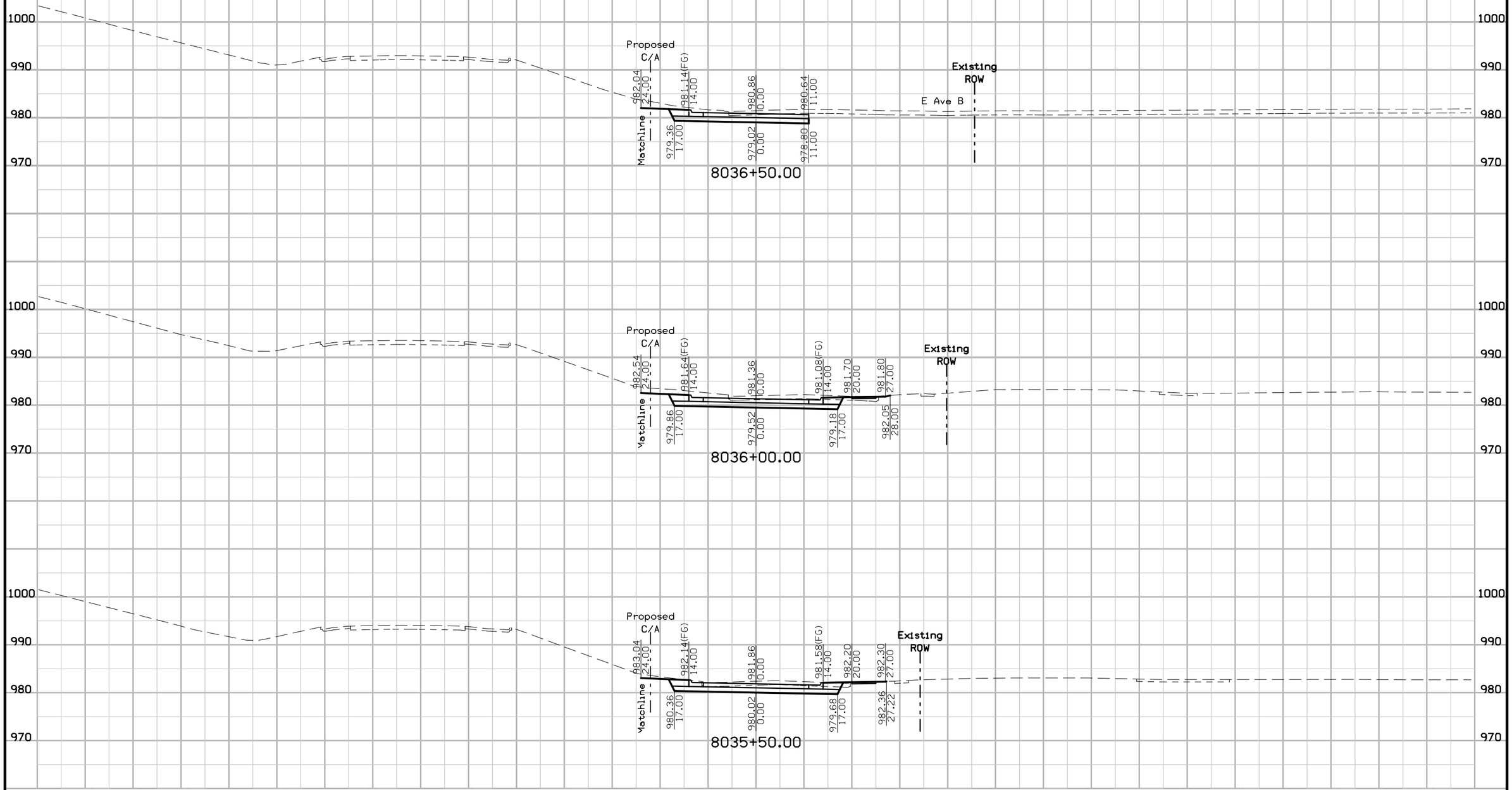
NB FRONTAGE RD
Preliminary



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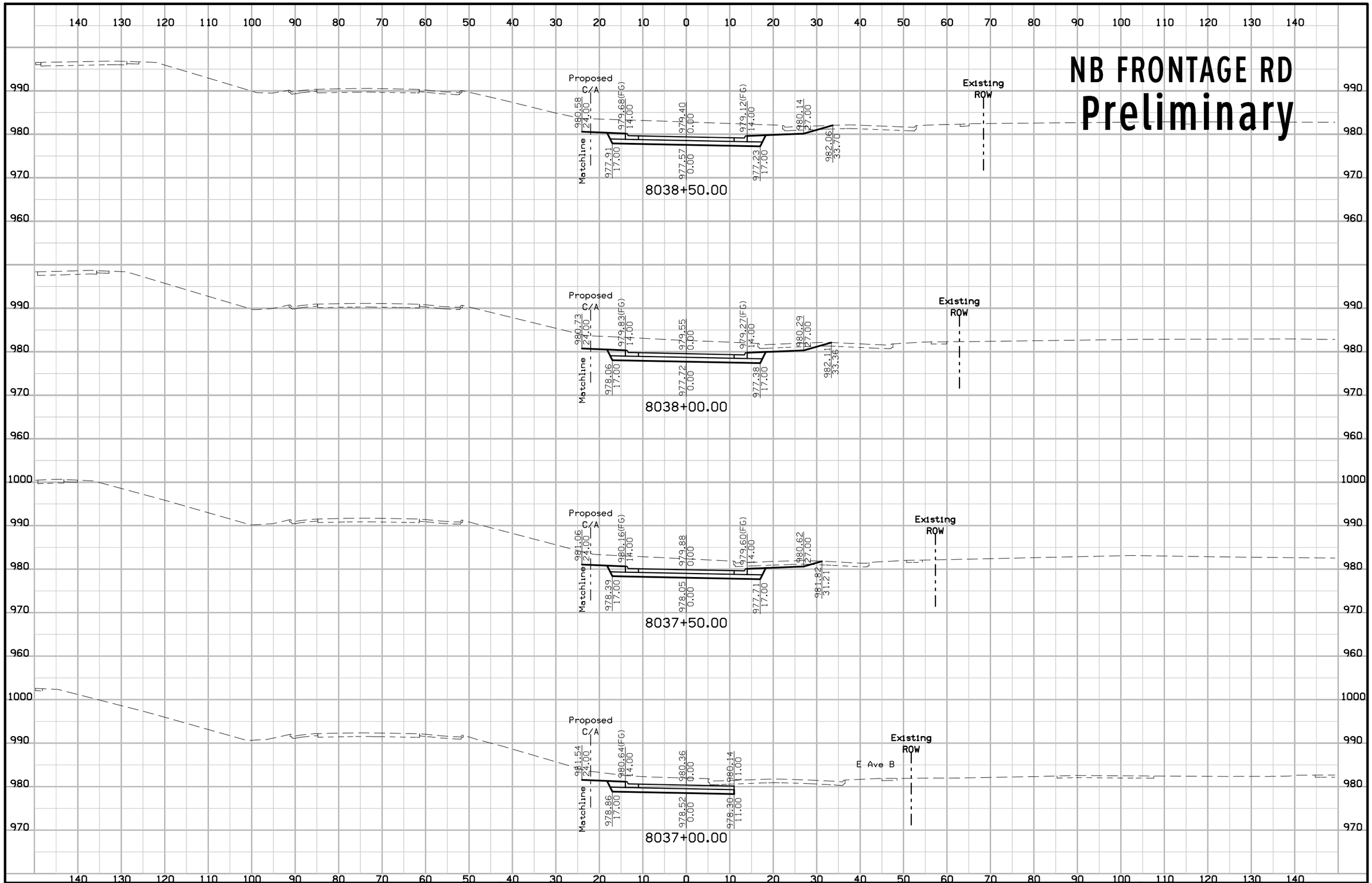
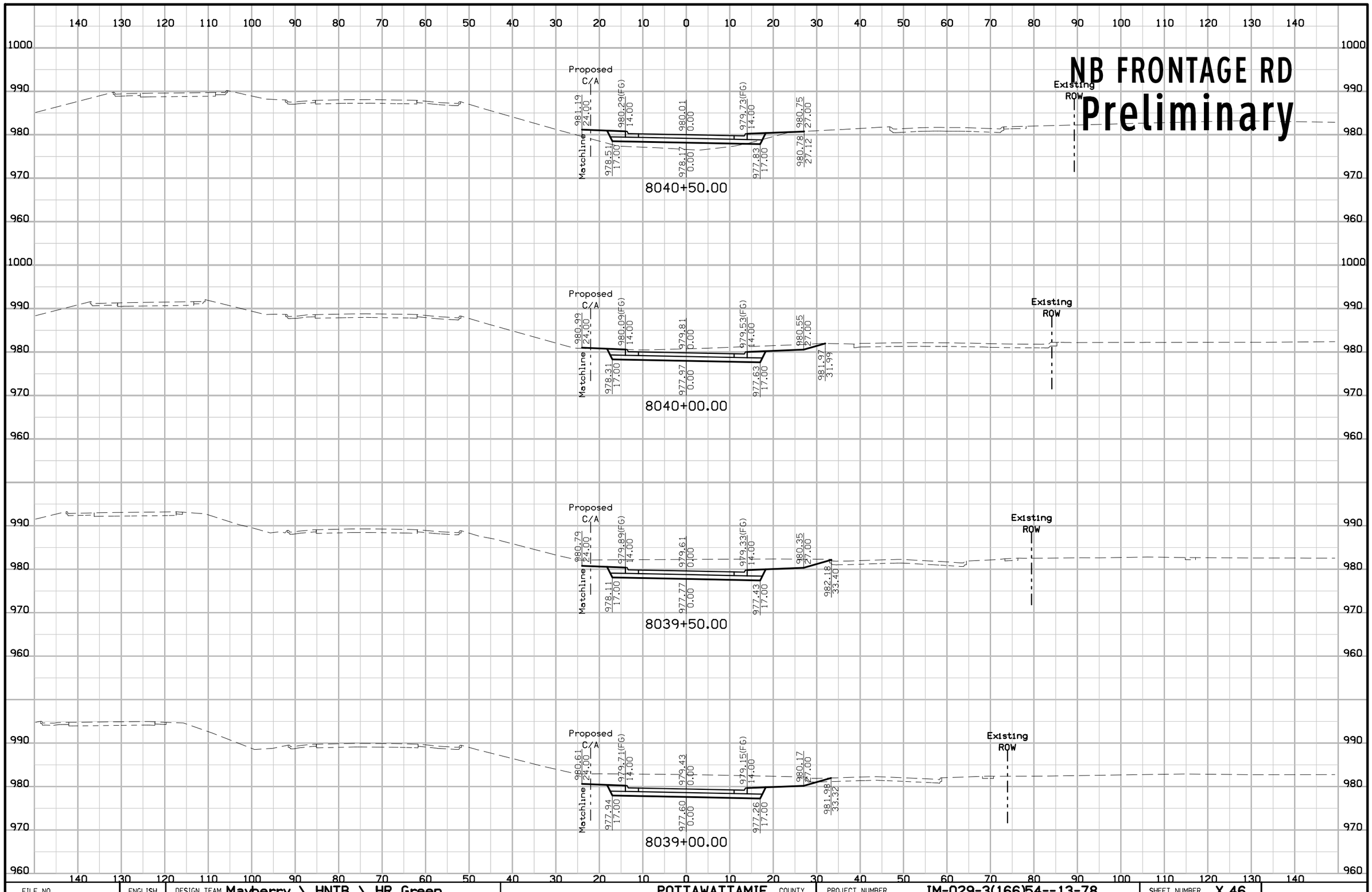


FILE NO.	ENGLISH	DESIGN TEAM Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER IM-029-3(166)54--13-78	SHEET NUMBER X.45

2:06:13 PM 10/25/2017 ddudley pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\+HR_Green\Design-HR Green\Sheeting-HR Green\78029166-HRG-X37_Frt_Nb.sht

NB FRONTAGE RD

Preliminary



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NB FRONTAGE RD
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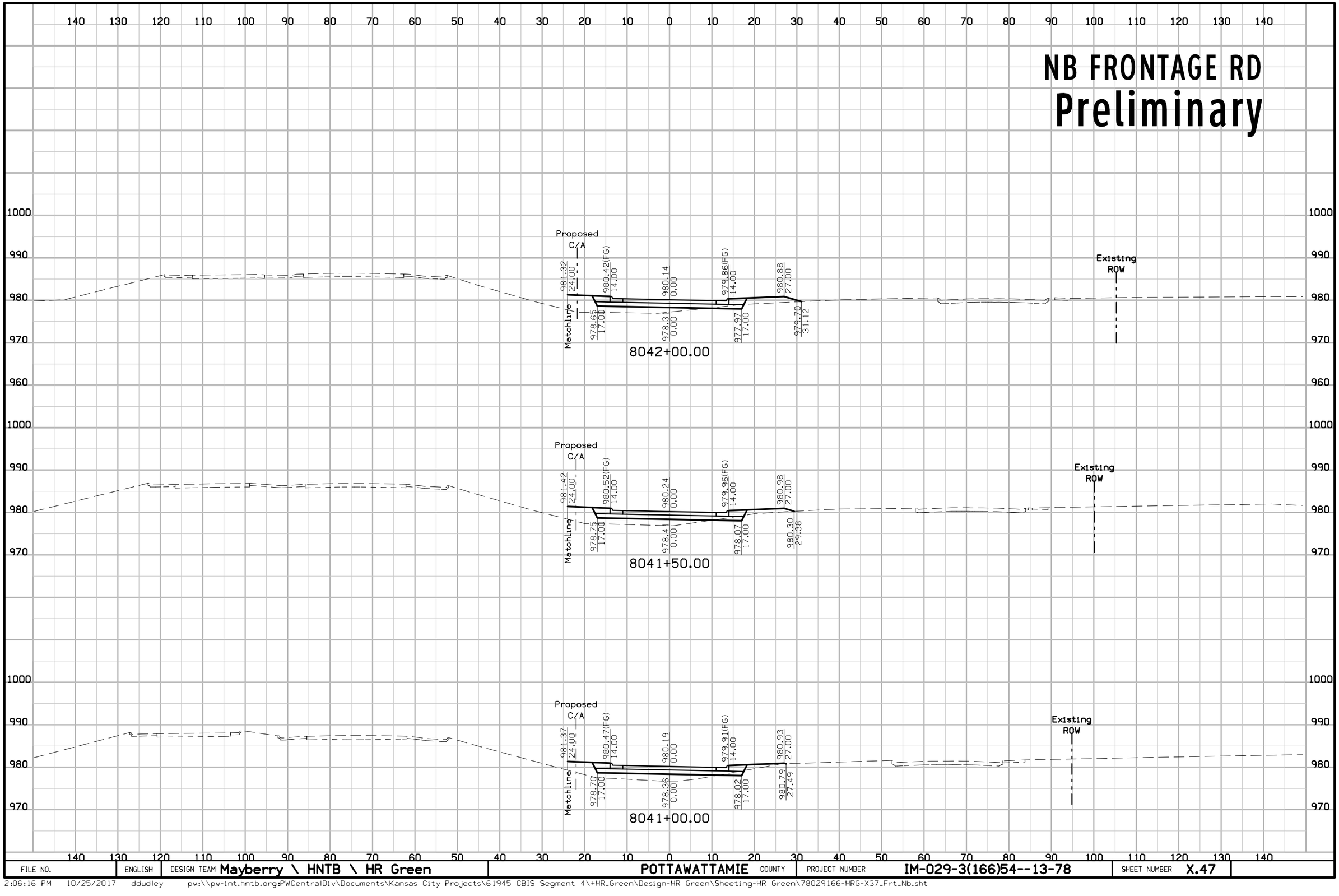
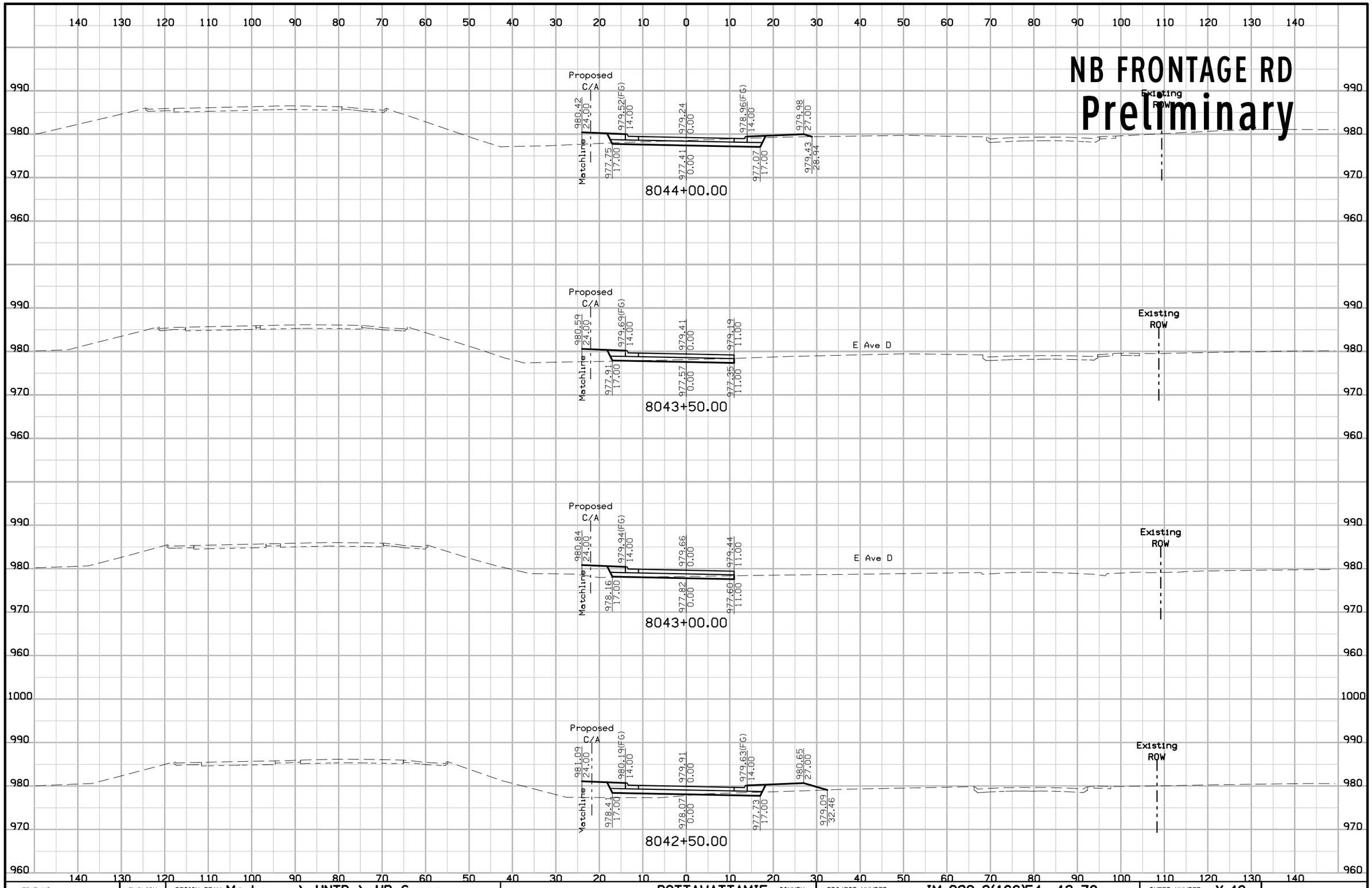


FILE NO.	ENGLISH	DESIGN TEAM Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER IM-029-3(166)54--13-78	SHEET NUMBER X.47

2:06:16 PM 10/25/2017 ddudley pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\+HR_Green\Design-HR Green\Sheeting-HR Green\78029166-HRG-X37_Frt_Nb.sht

NB FRONTAGE RD

Preliminary



FILE NO.	ENGLISH	DESIGN TEAM Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER IM-029-3(166)54--13-78	SHEET NUMBER X.48

2:06:17 PM 10/25/2017 ddudley pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\+HR_Green\Design-HR Green\Sheeting-HR Green\78029166-HRG-X37_Frt_Nb.sht

NB FRONTAGE RD

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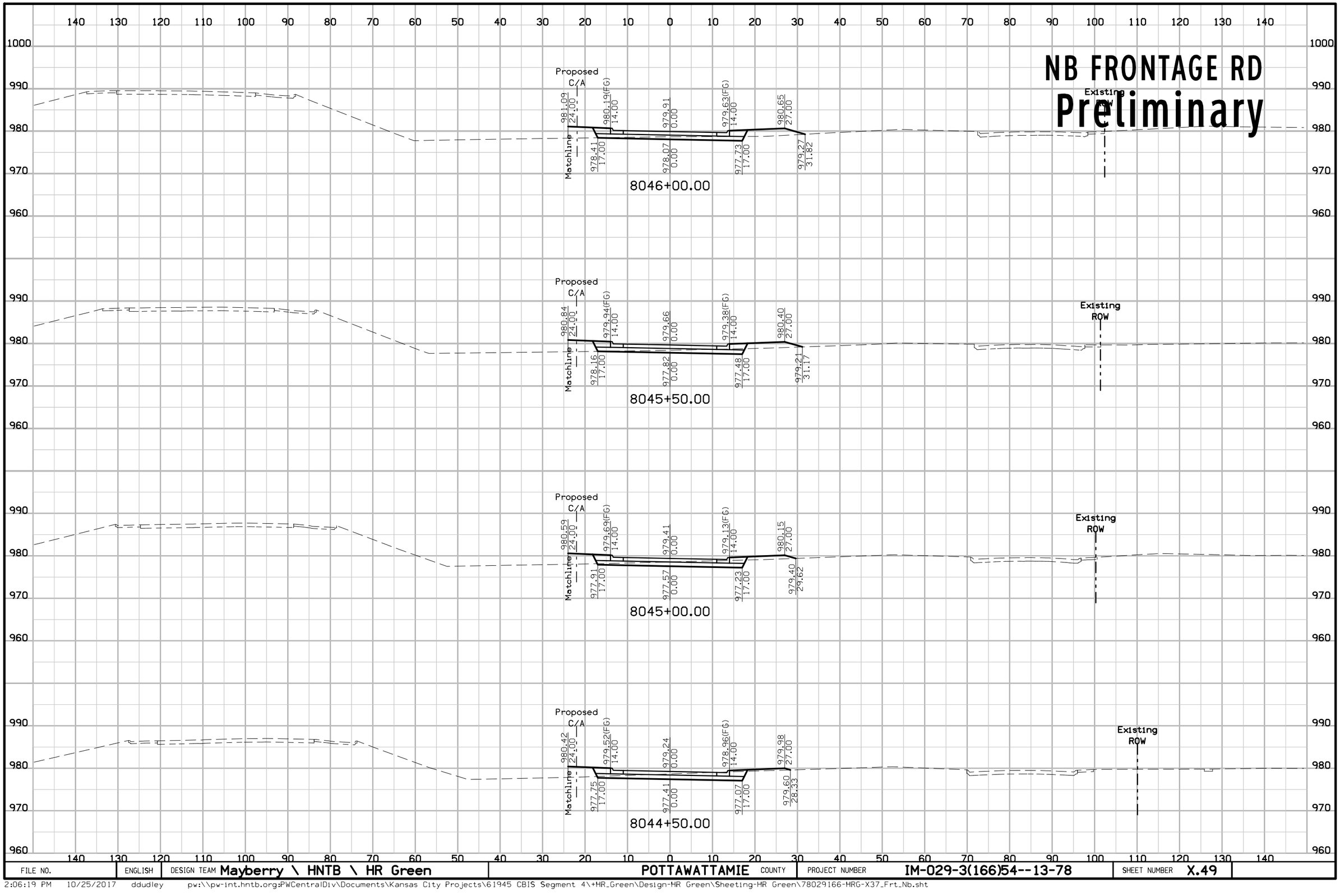

FILE NO.	ENGLISH	DESIGN TEAM Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER IM-029-3(166)54--13-78	SHEET NUMBER X.49

2:06:19 PM 10/25/2017 ddudley pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\+HR_Green\Design-HR Green\Sheeting-HR Green\78029166-HRG-X37_Frt_Nb.sht

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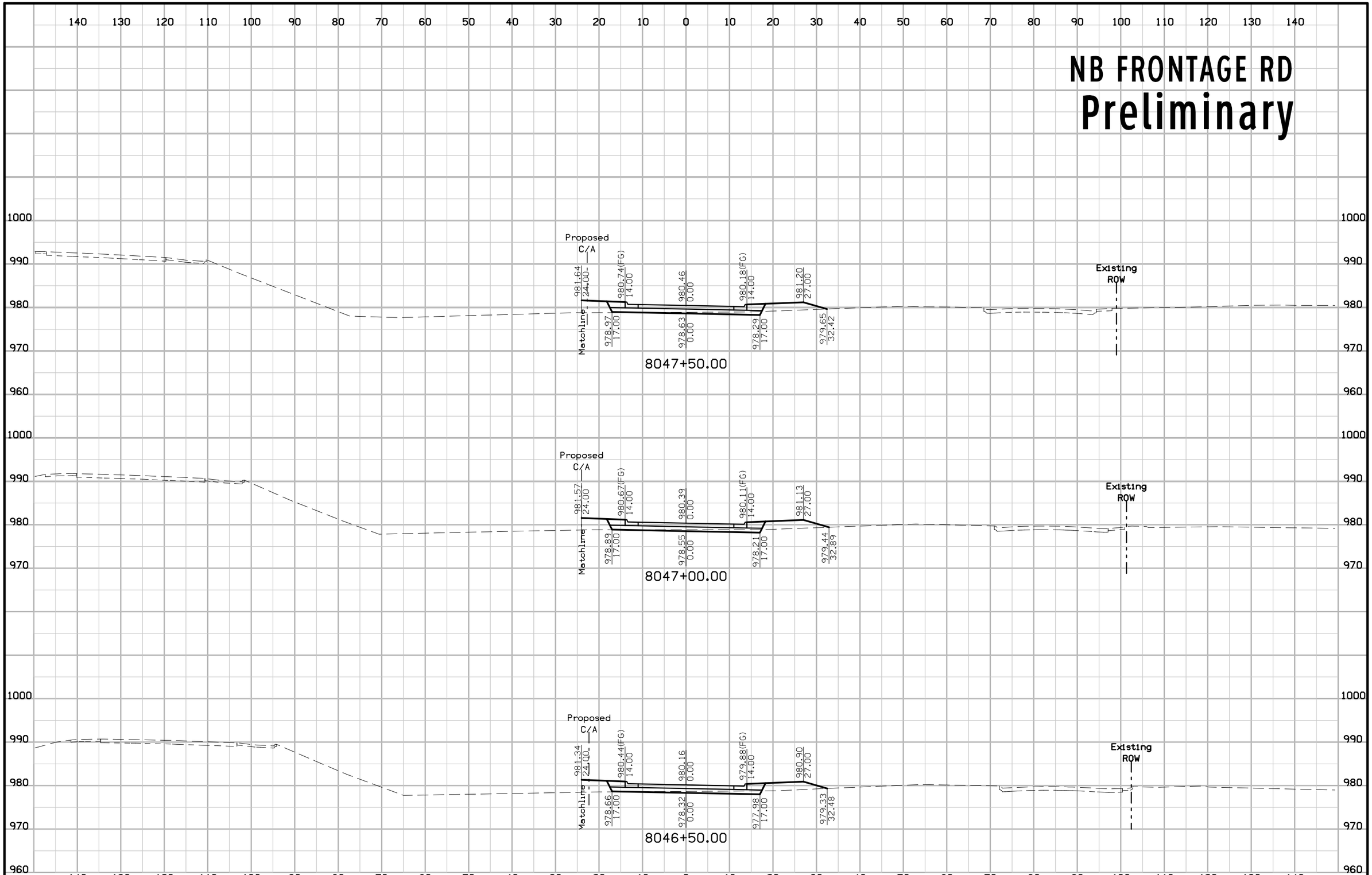

FILE NO.	ENGLISH	DESIGN TEAM Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER IM-029-3(166)54--13-78	SHEET NUMBER X.50

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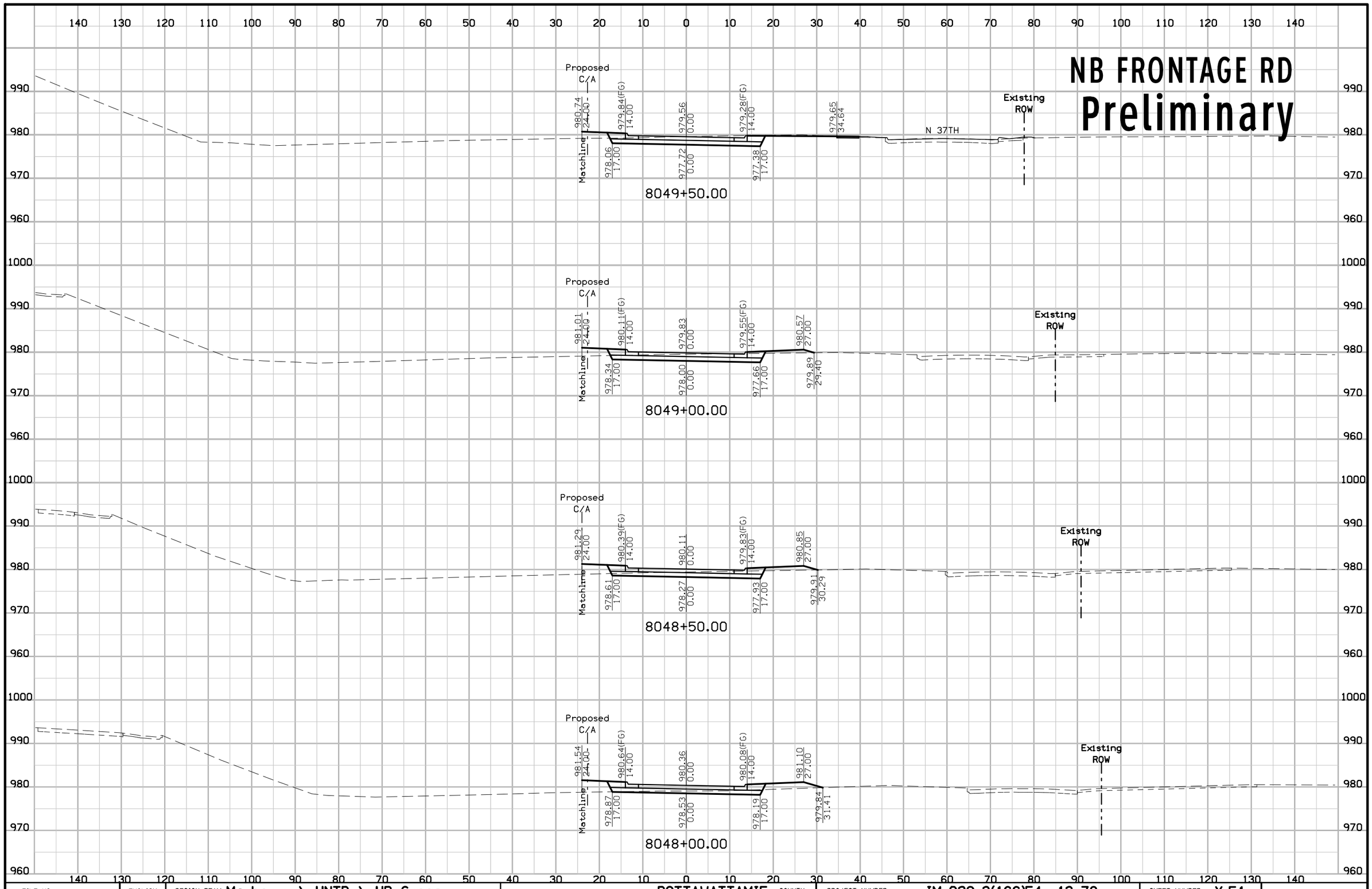

FILE NO.	ENGLISH	DESIGN TEAM Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER IM-029-3(166)54--13-78	SHEET NUMBER X.51

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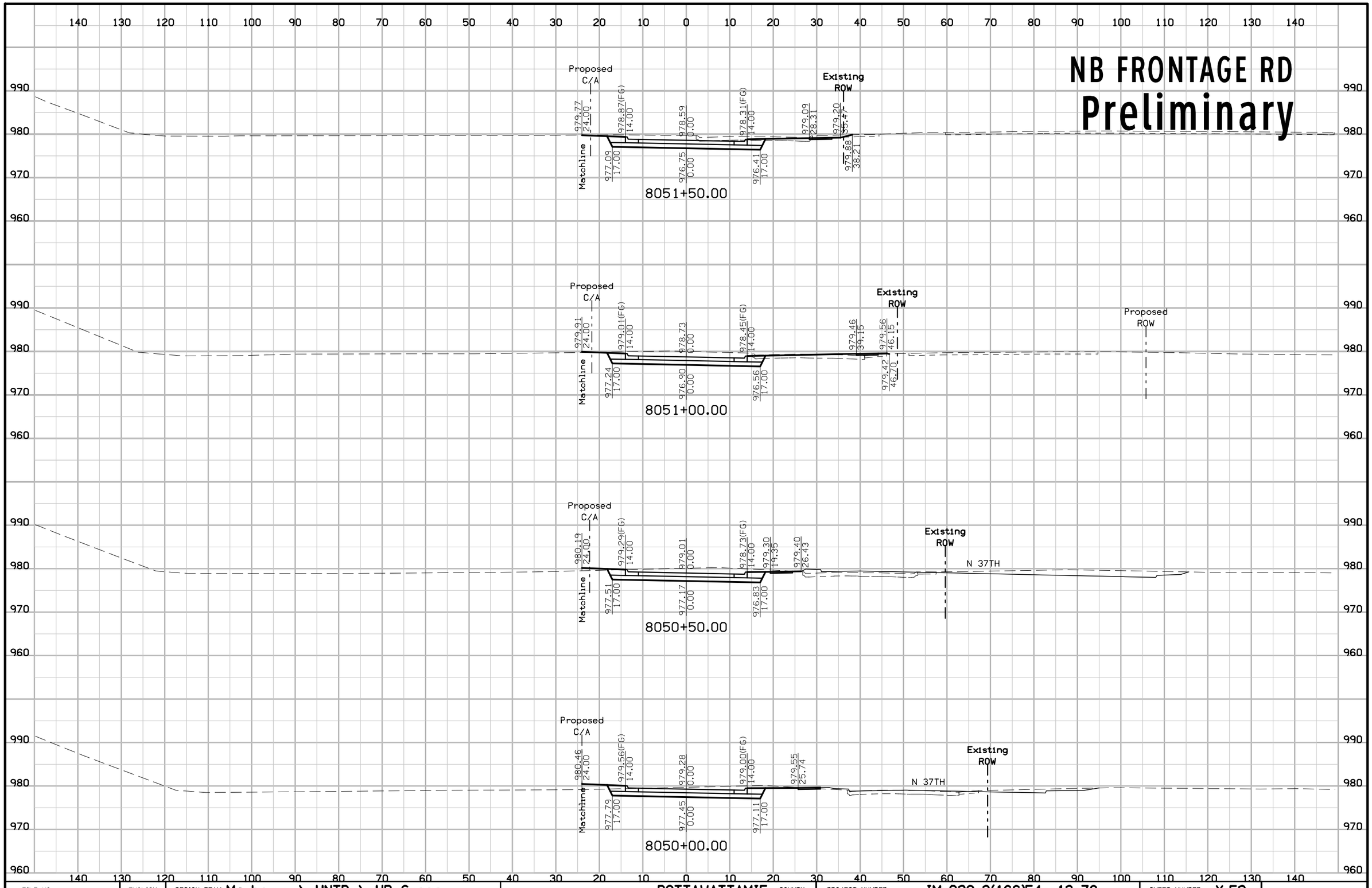
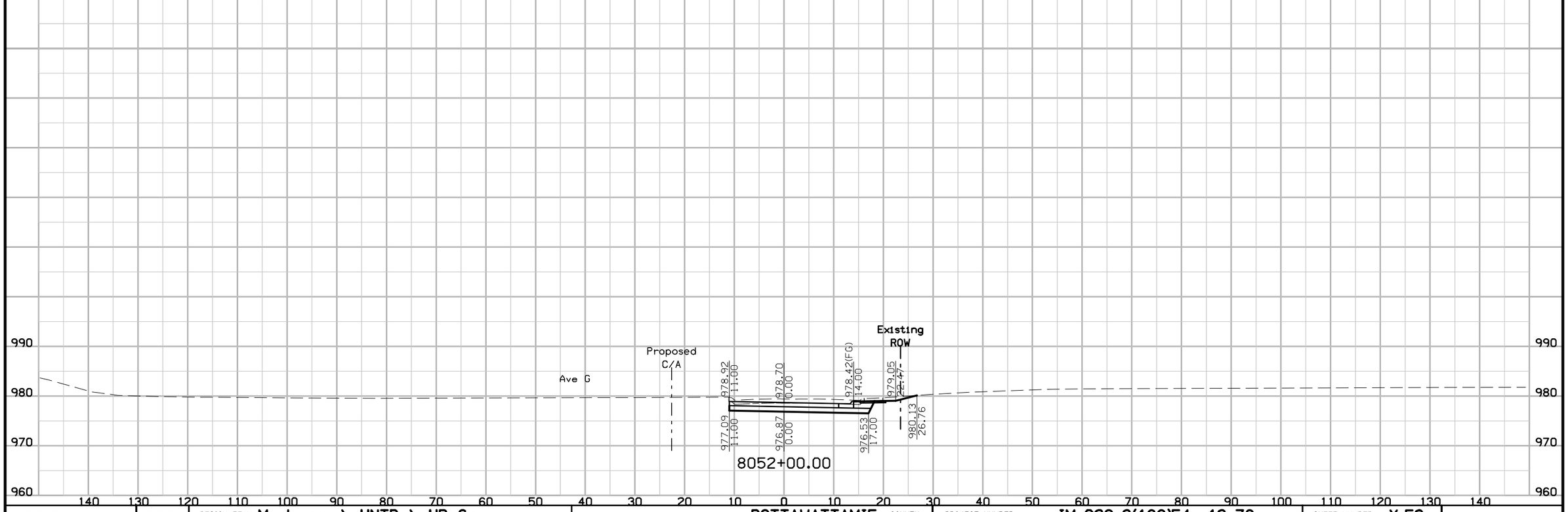


FILE NO.	ENGLISH	DESIGN TEAM Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER IM-029-3(166)54--13-78	SHEET NUMBER X.52

2:06:22 PM 10/25/2017 ddudley pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\+HR_Green\Design-HR Green\Sheeting-HR Green\78029166-HRG-X37_Frt_Nb.sht

NB FRONTAGE RD

Preliminary



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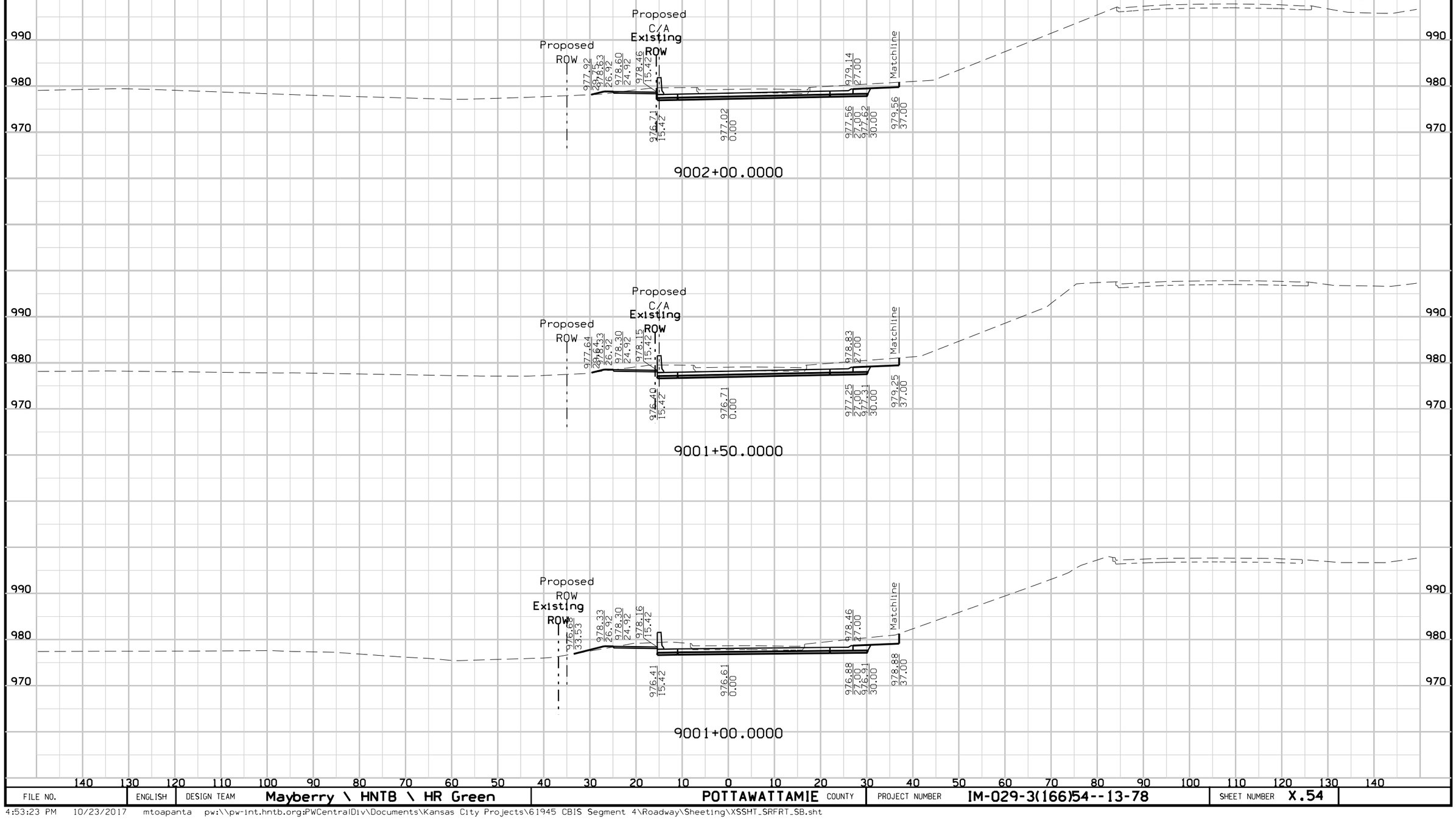
SB FRONTAGE RD.

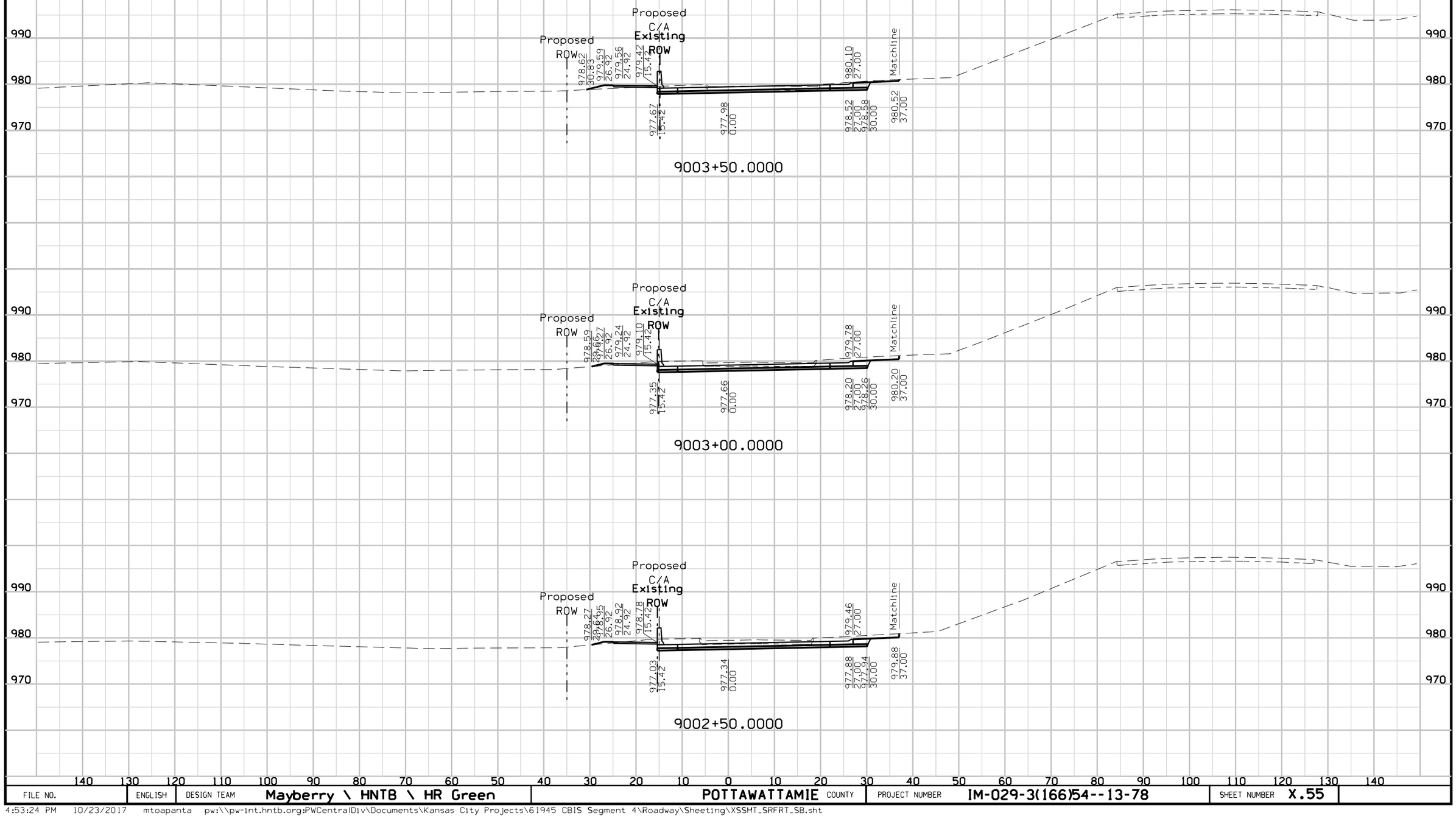
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER	X.54

SB FRONTAGE RD.

Preliminary



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER	X.55

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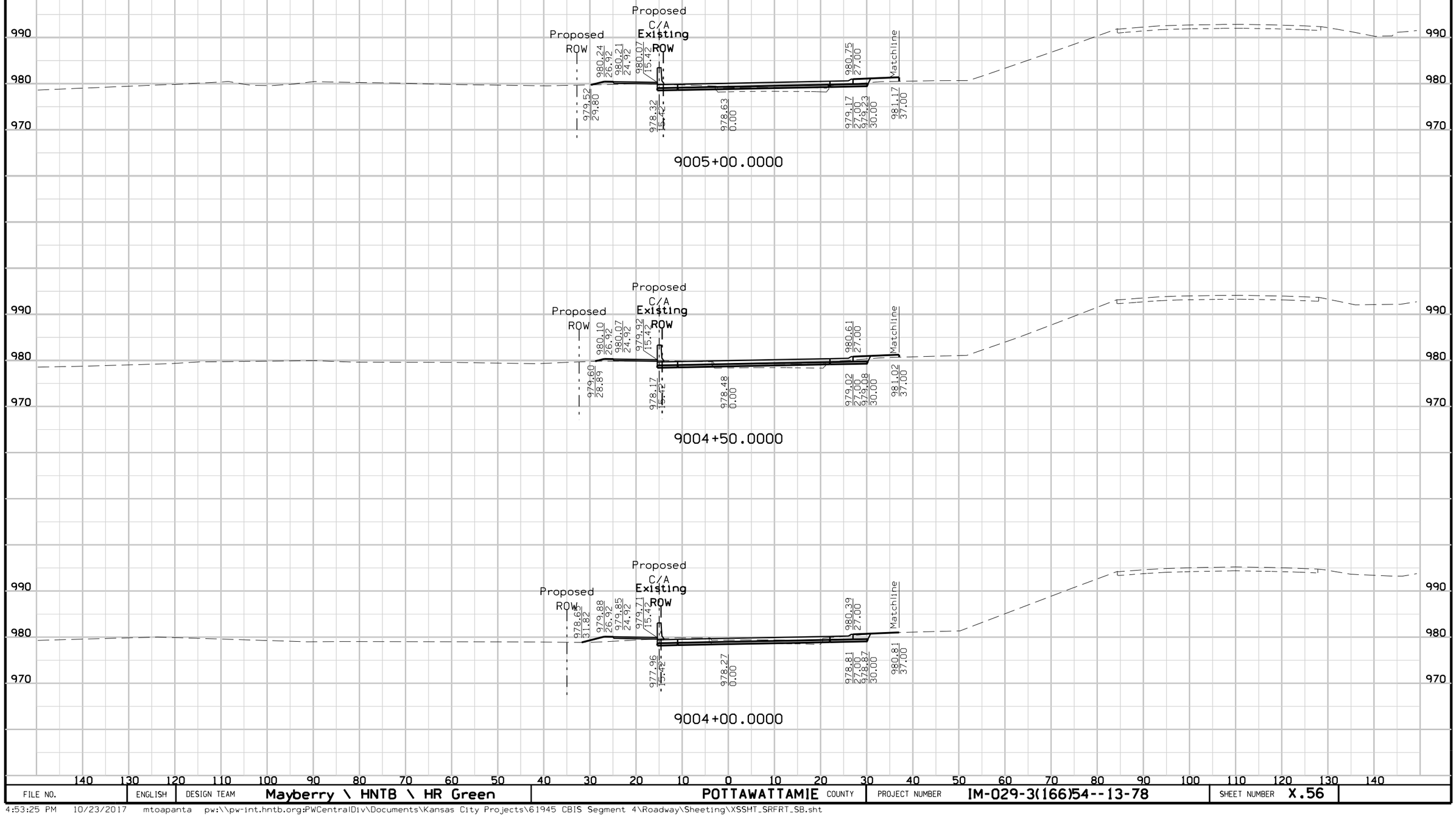
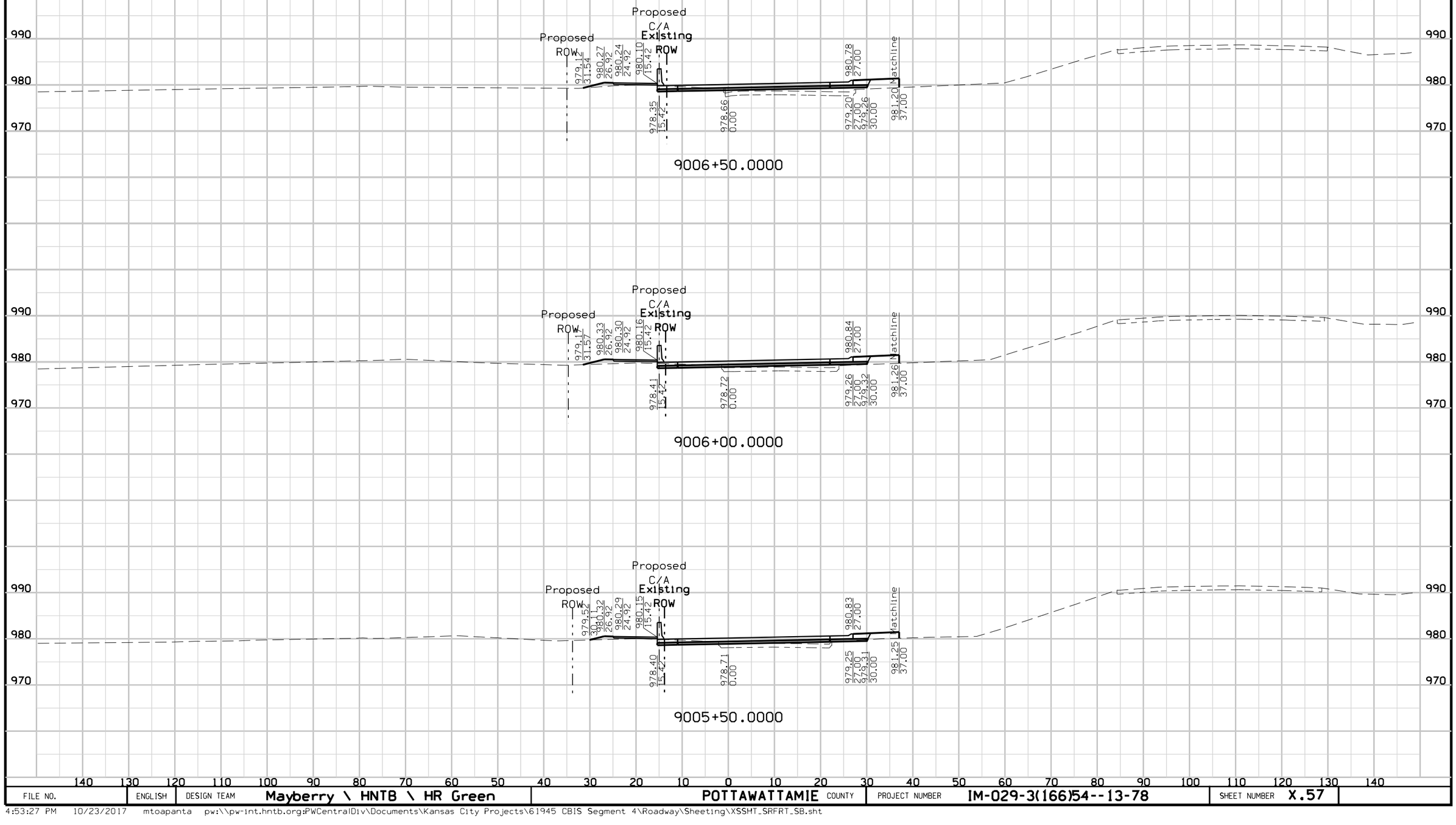
SB FRONTAGE RD.
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER	X.56

4:53:25 PM 10/23/2017 mtoapanta pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\XSSHT_SRFRT_SB.sht

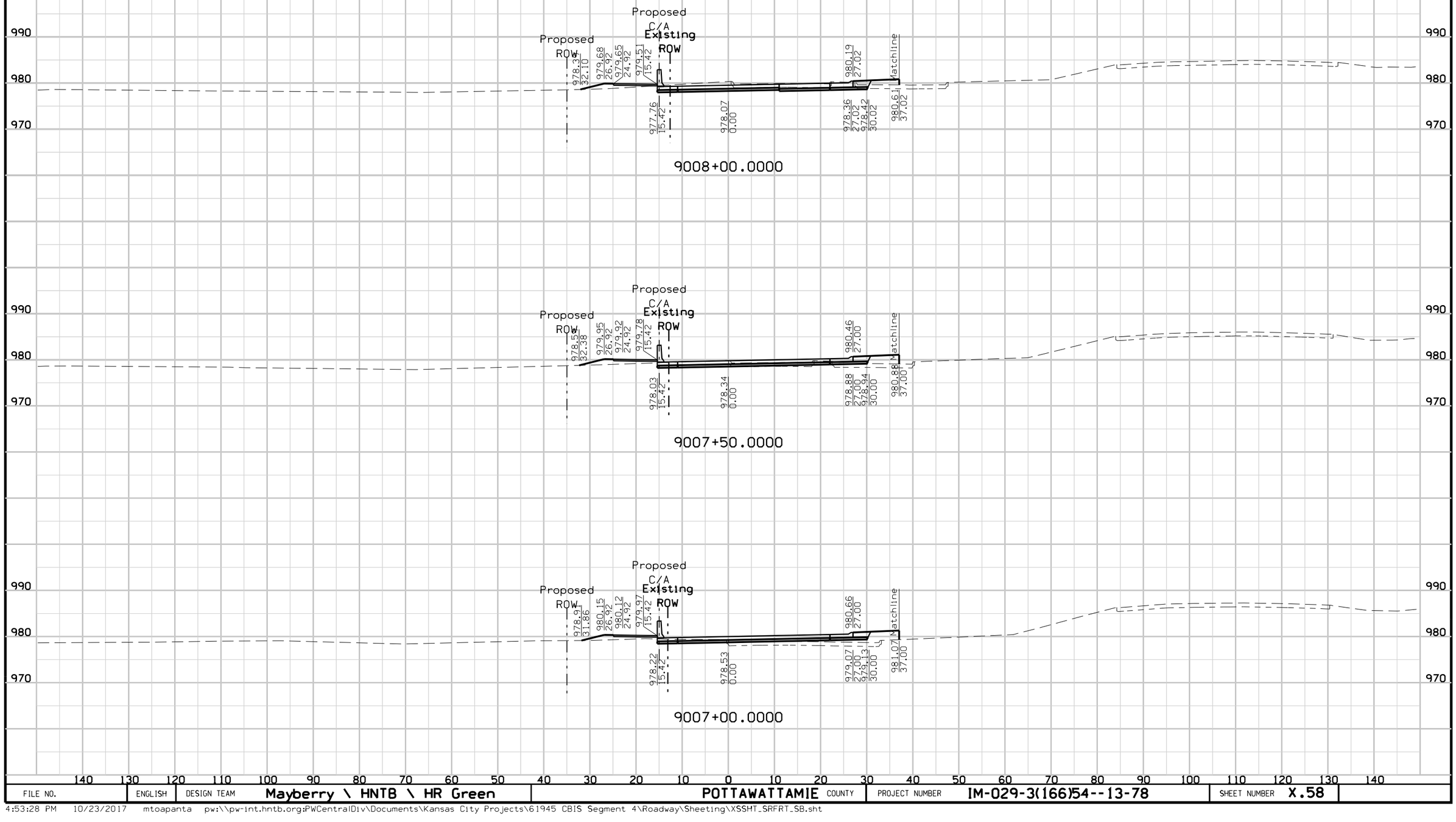
SB FRONTAGE RD.
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER X.57

4:53:27 PM 10/23/2017 mtoapanta pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\XSSHT_SRFRT_SB.sht

SB FRONTAGE RD.
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM		COUNTY	PROJECT NUMBER	SHEET NUMBER
		Mayberry \ HNTB \ HR Green	POTTAWATTAMIE		IM-029-3(166)54--13-78	X.58

4:53:28 PM 10/23/2017 mtoapanta pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\XSSHT_SRFRT_SB.sht

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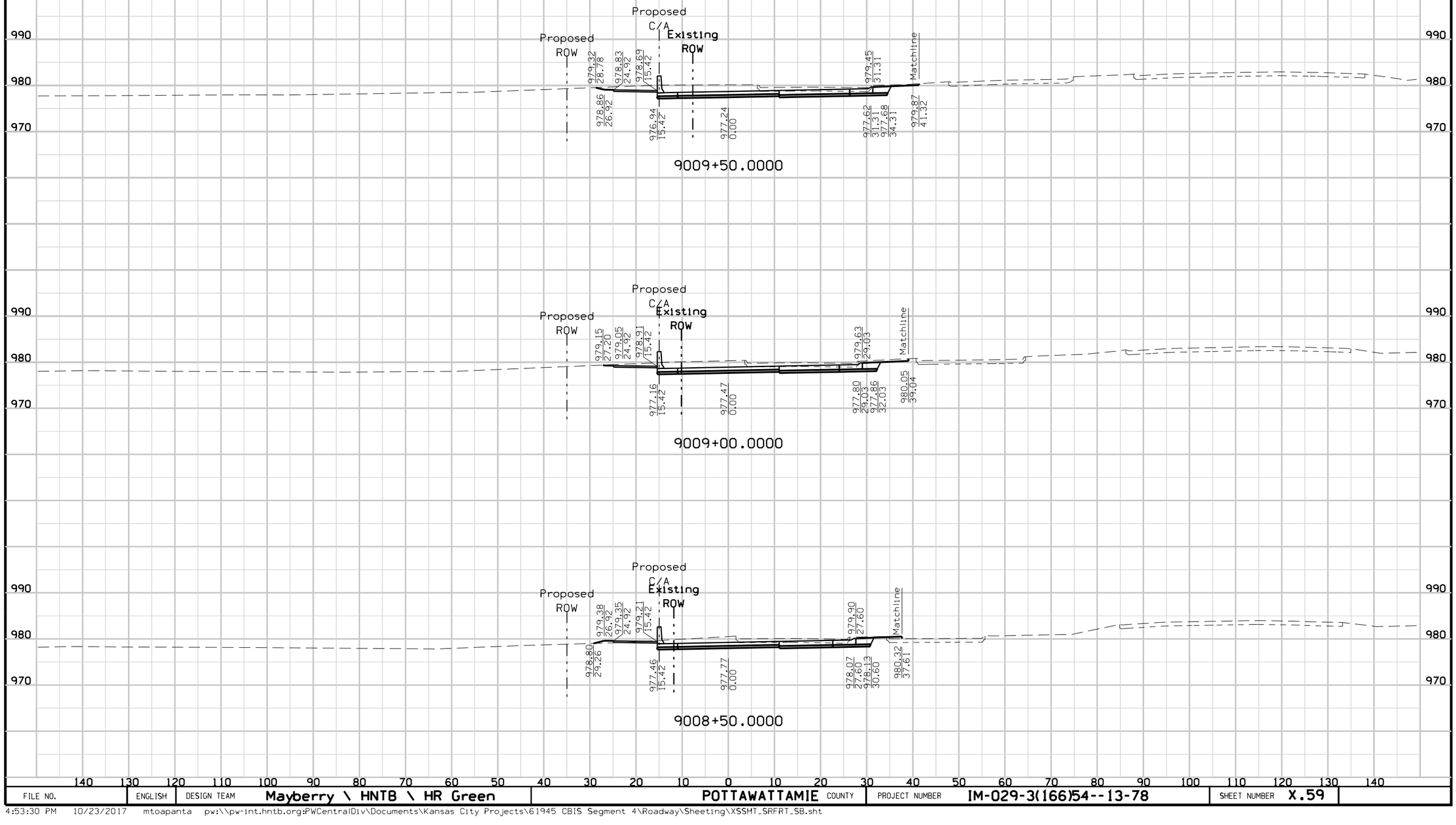
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER	X.59

4:53:30 PM 10/23/2017 mtoapanta pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\XSSHT_SRFRT_SB.sht

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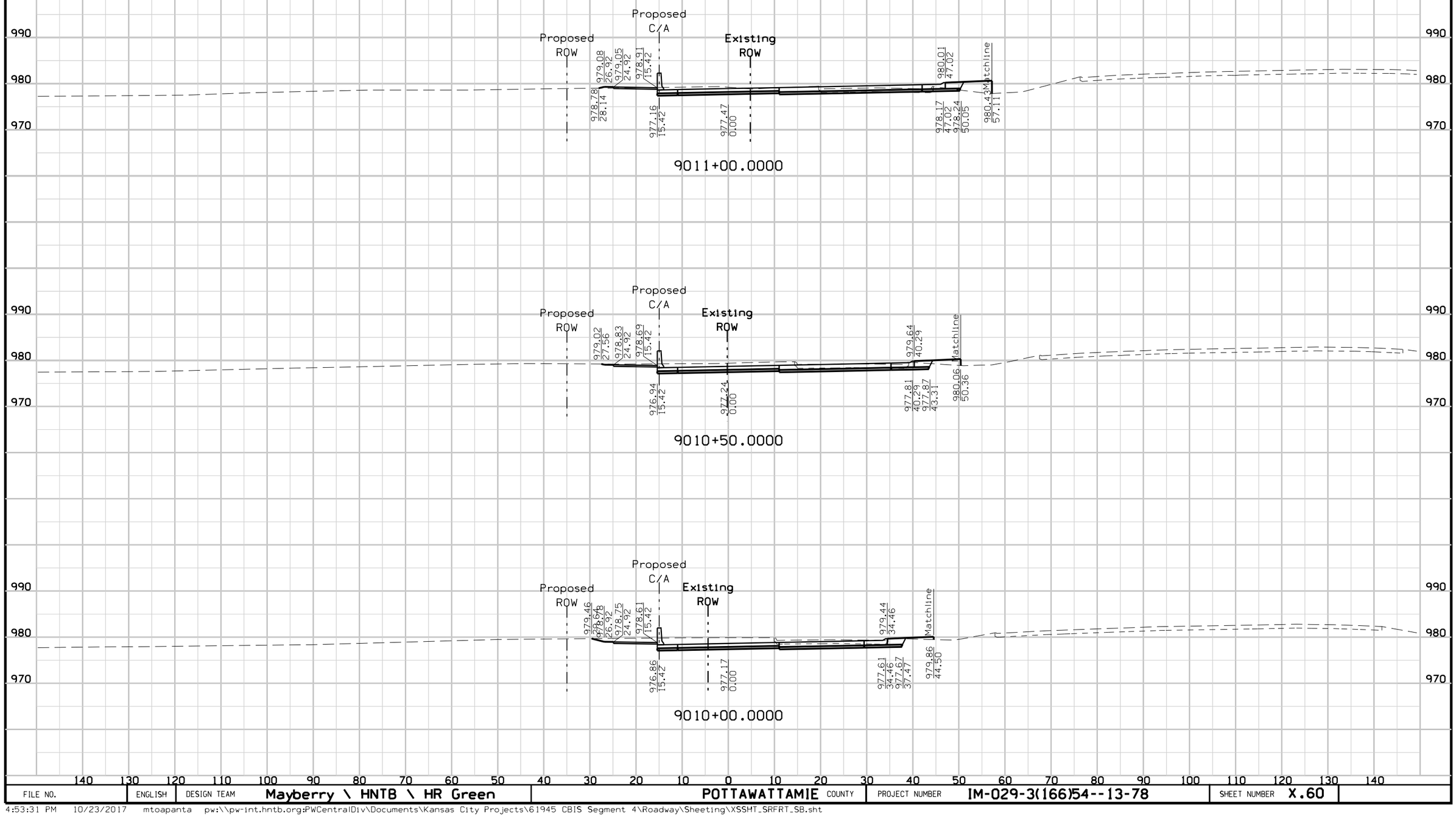
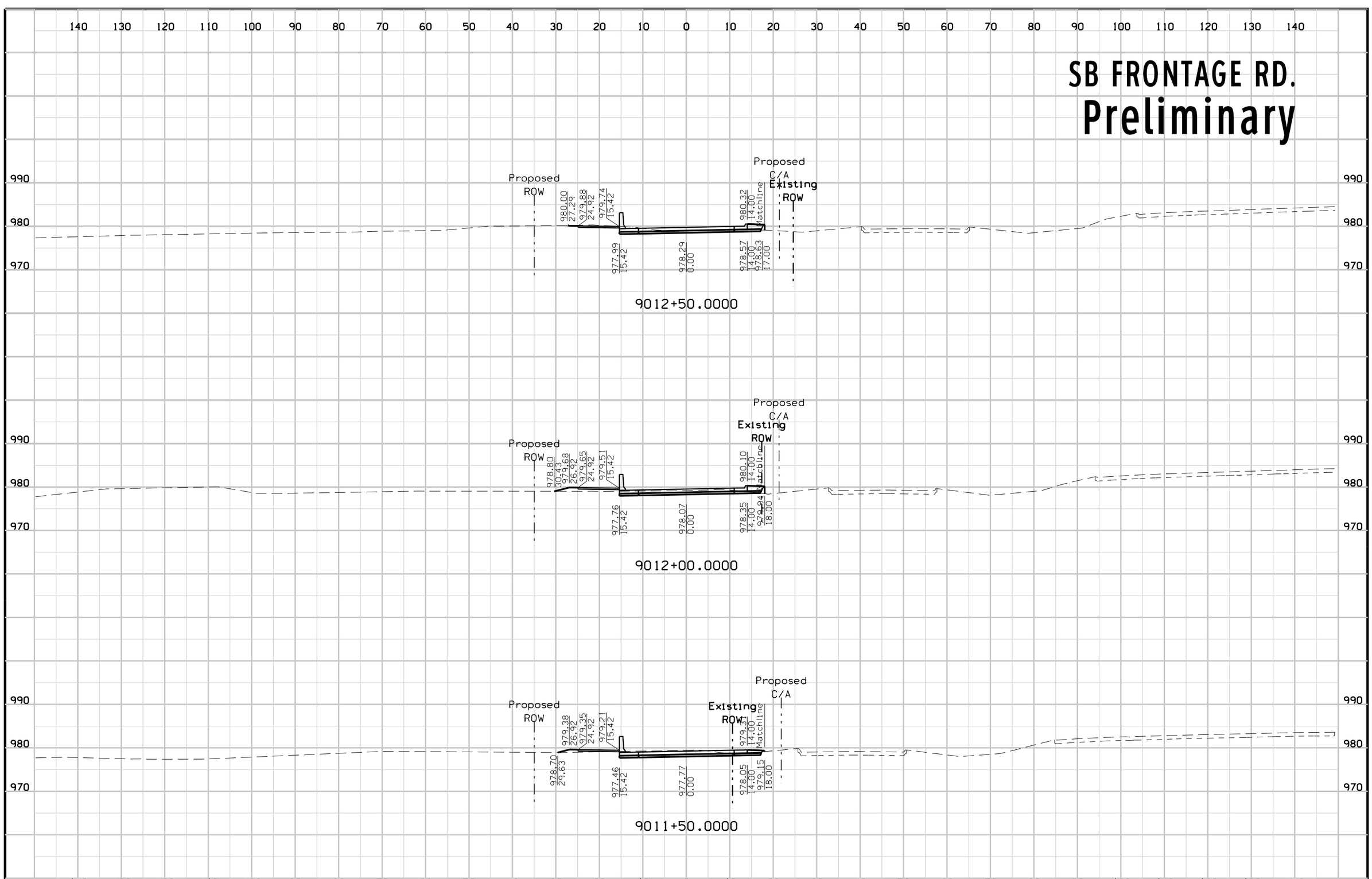
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER	X.60

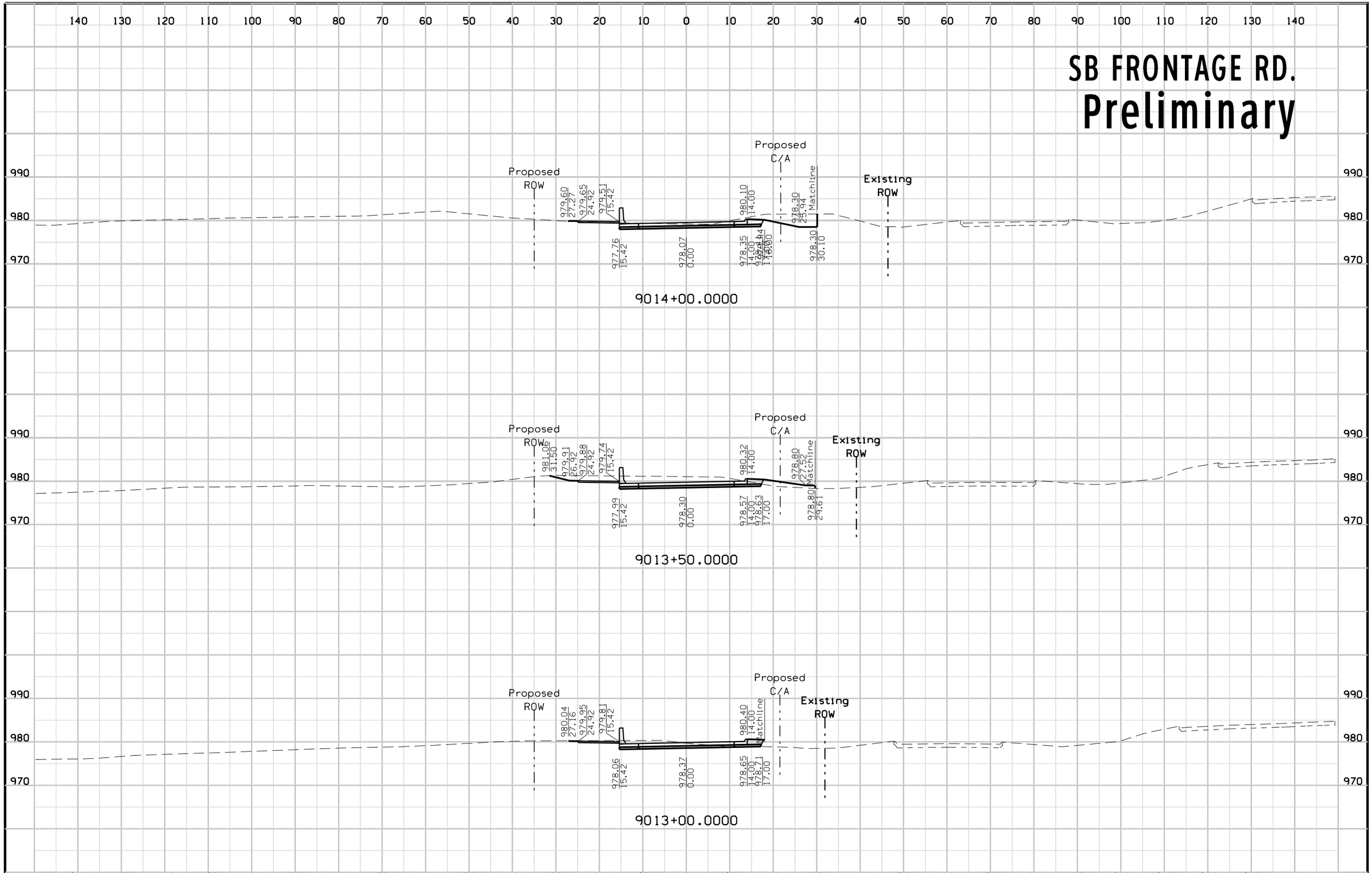
SB FRONTAGE RD.
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER	X.61

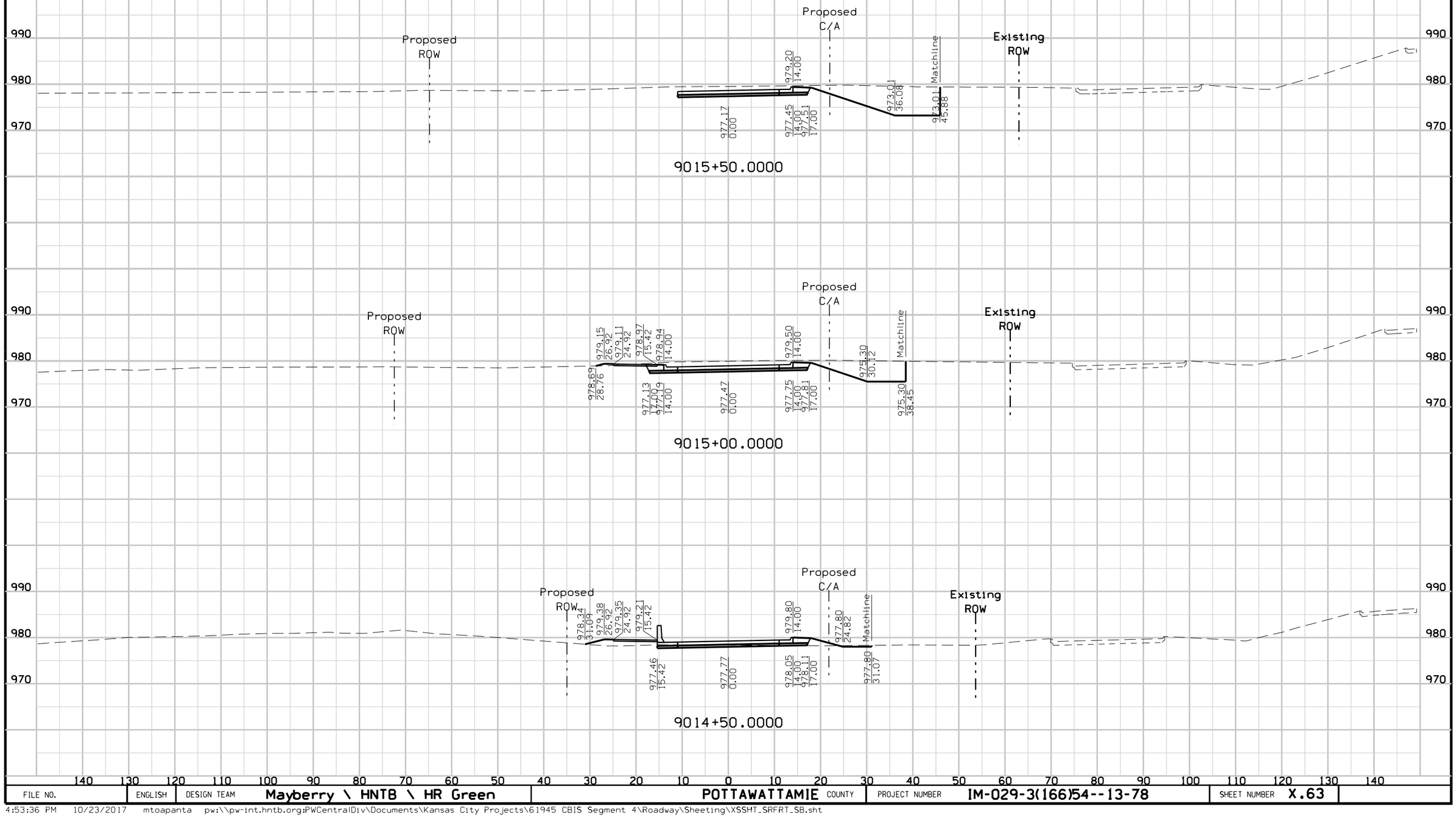
4:53:33 PM 10/23/2017 mtoapanta pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\XSSHT_SRFRT_SB.sht

SB FRONTAGE RD.
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER X.62

SB FRONTAGE RD.
Preliminary



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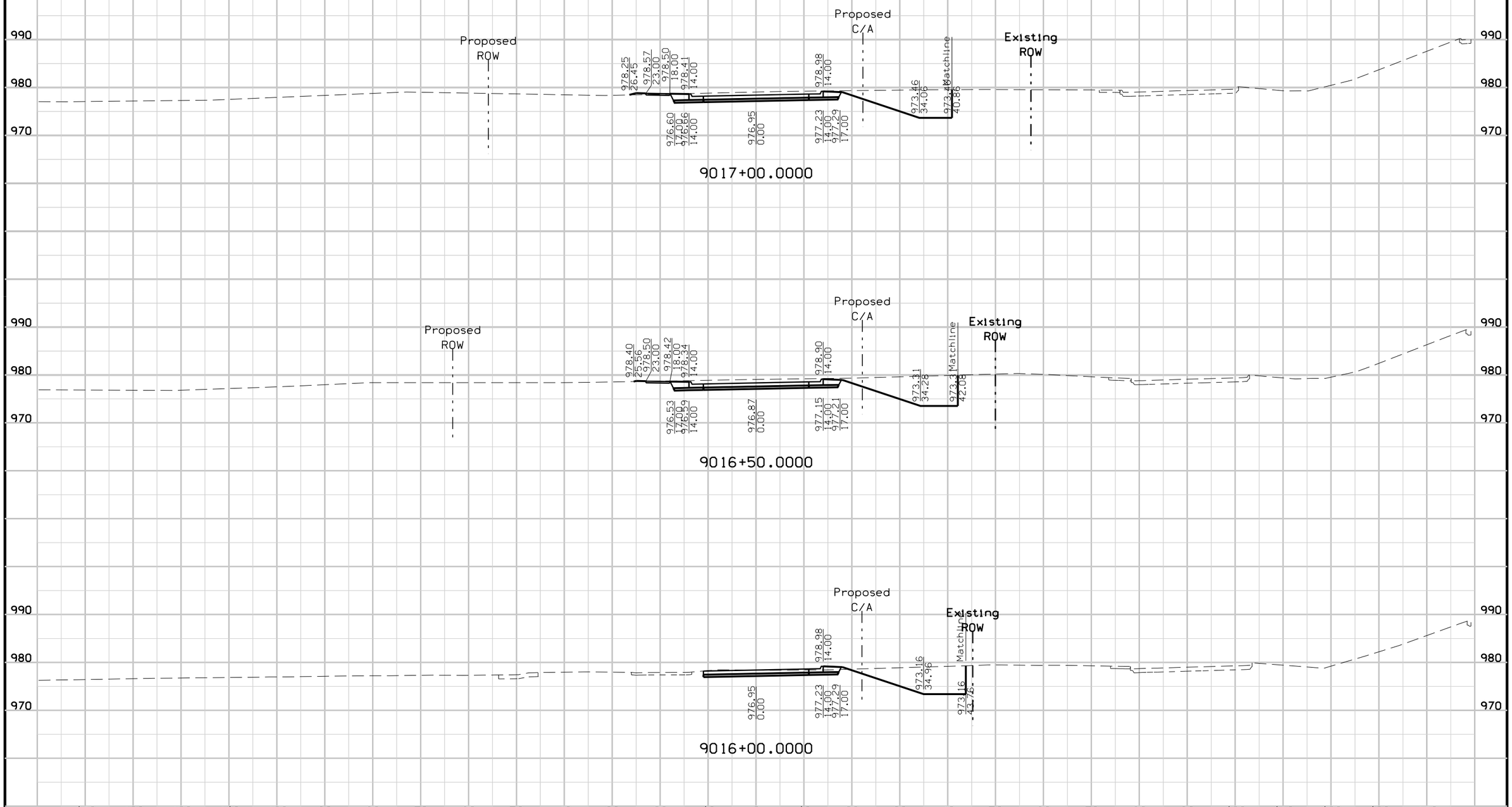
4:53:36 PM 10/23/2017 mtoapanta pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\XSSHT_SRFRT_SB.sht

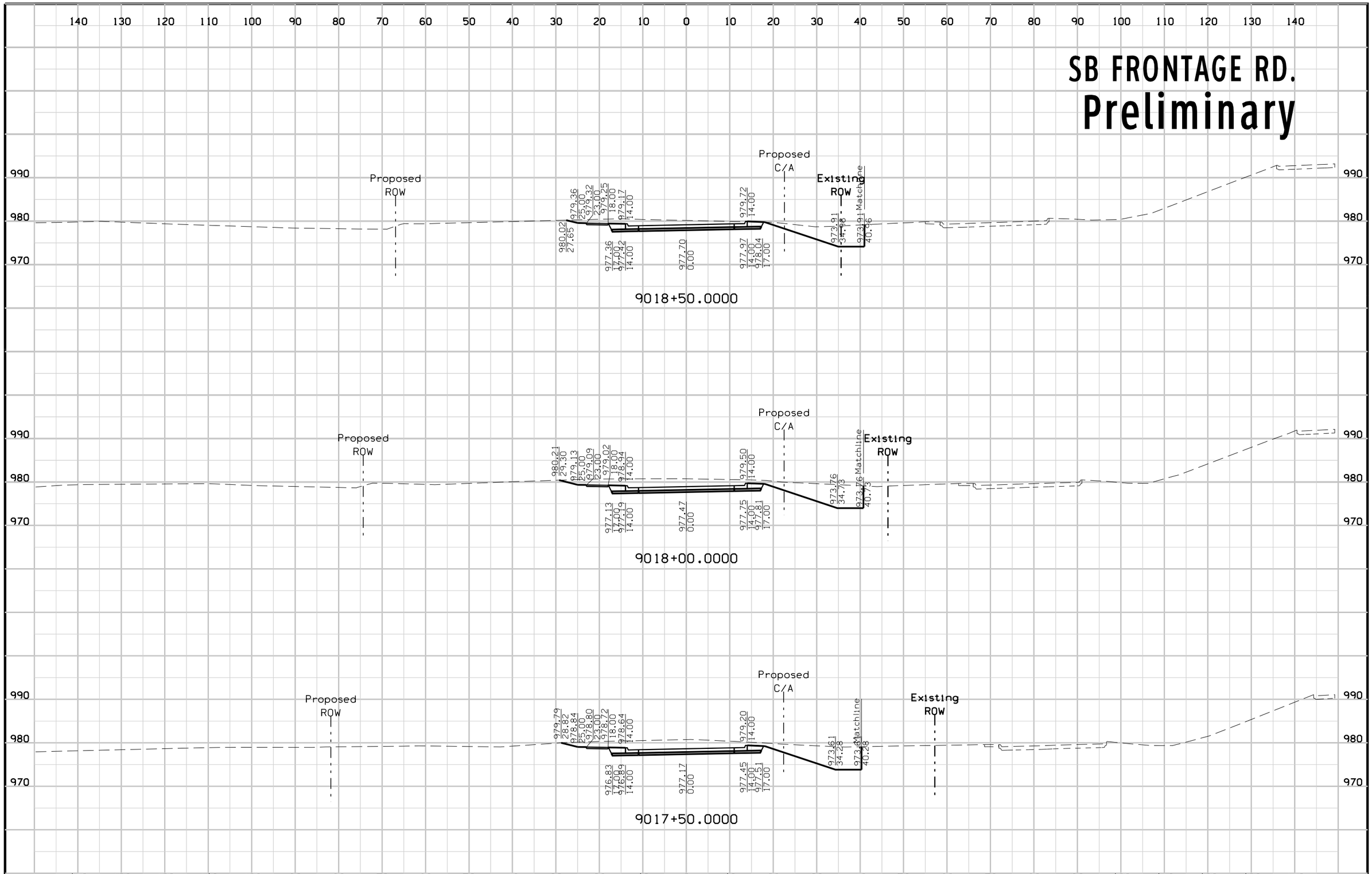
SB FRONTAGE RD.
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER	X.64

4:53:37 PM 10/23/2017 mtoapanta pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\XSSHT_SRFRT_SB.sht

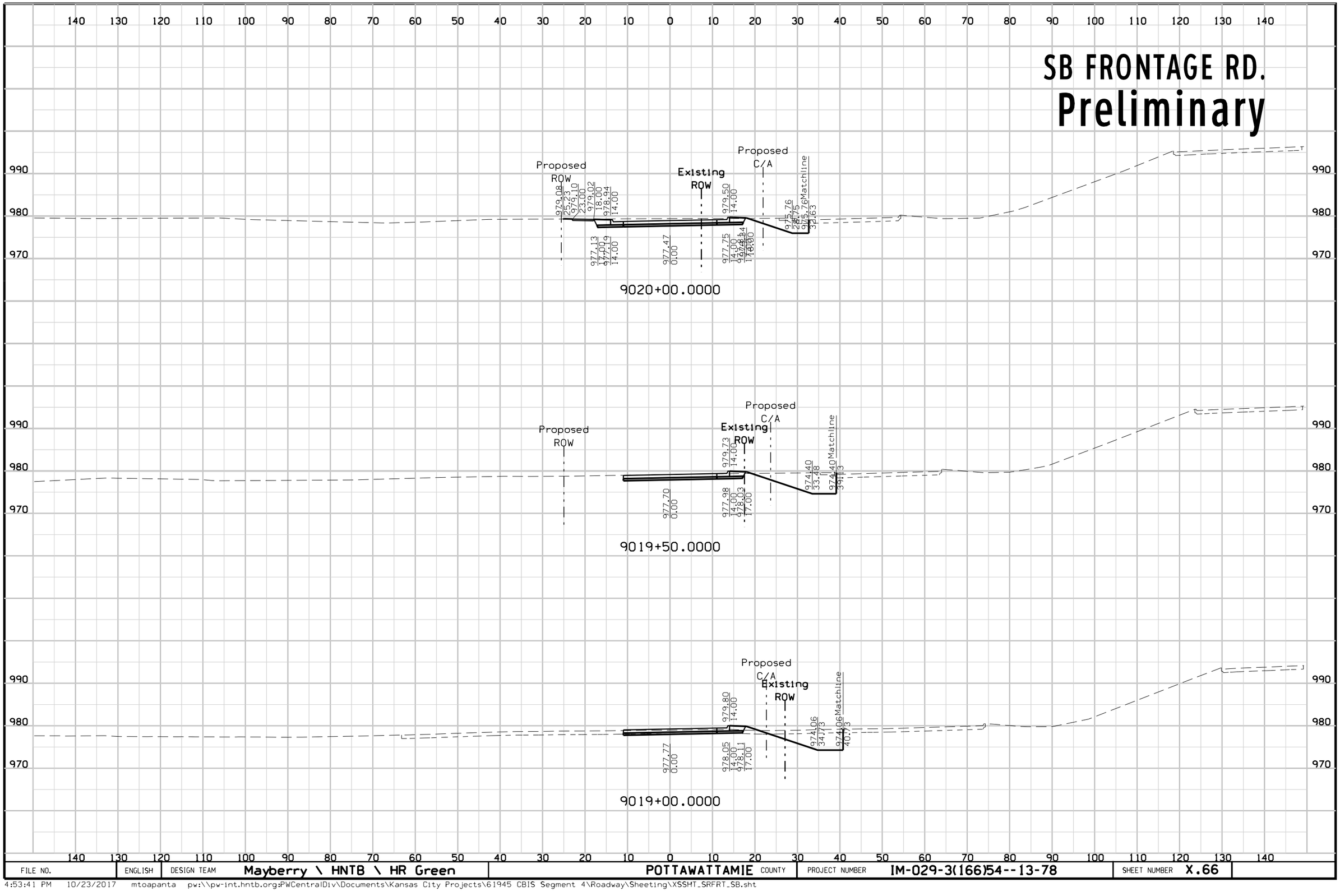
SB FRONTAGE RD.
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER	X.65

4:53:39 PM 10/23/2017 mtoapanta pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\XSSHT_SRFRT_SB.sht

SB FRONTAGE RD.
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER	X.66

4:53:41 PM 10/23/2017 mtoapanta pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\XSSHT_SRFRT_SB.sht

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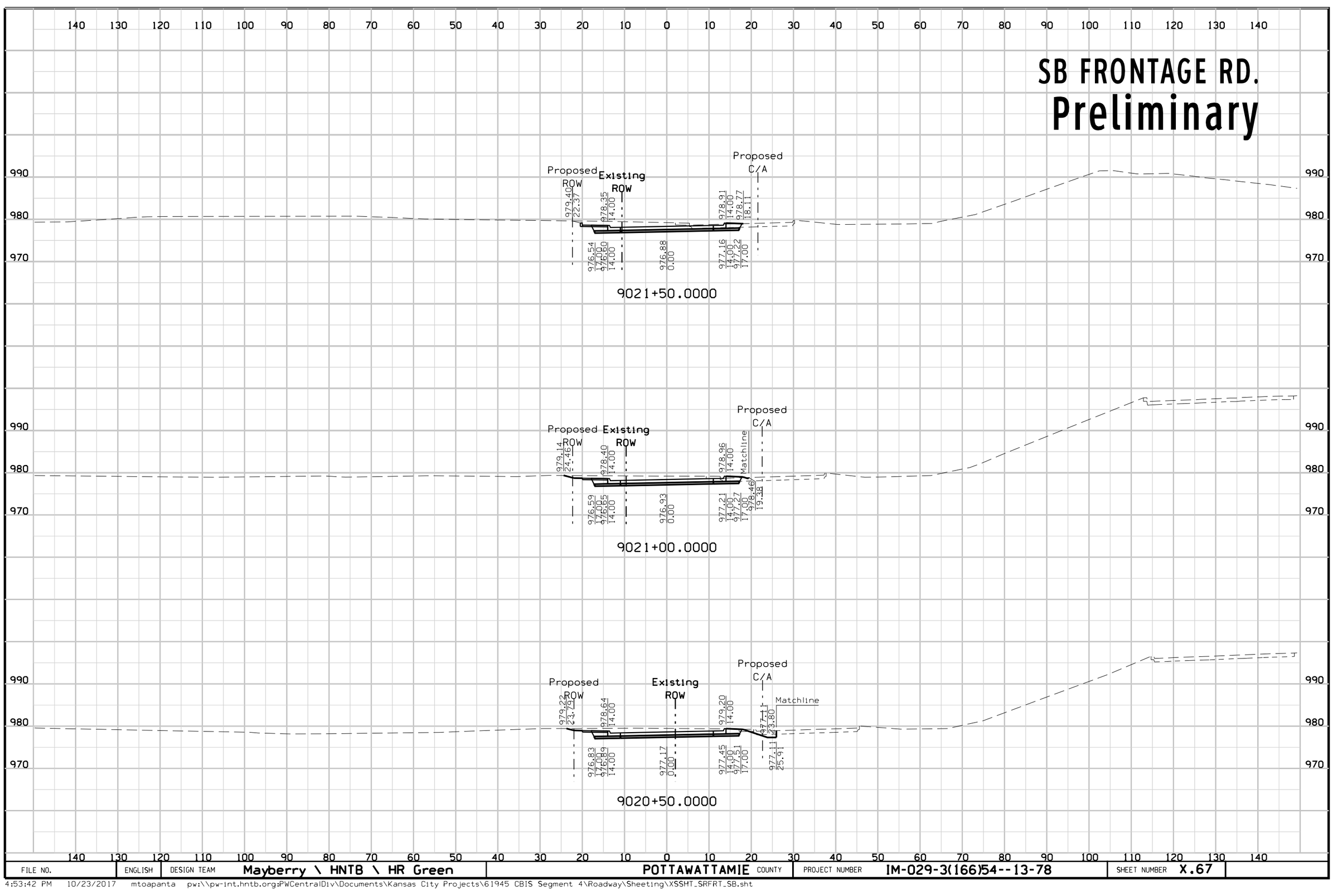
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER	X.67

4:53:42 PM 10/23/2017 mtoapanta pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\XSSHT_SRFRT_SB.sht

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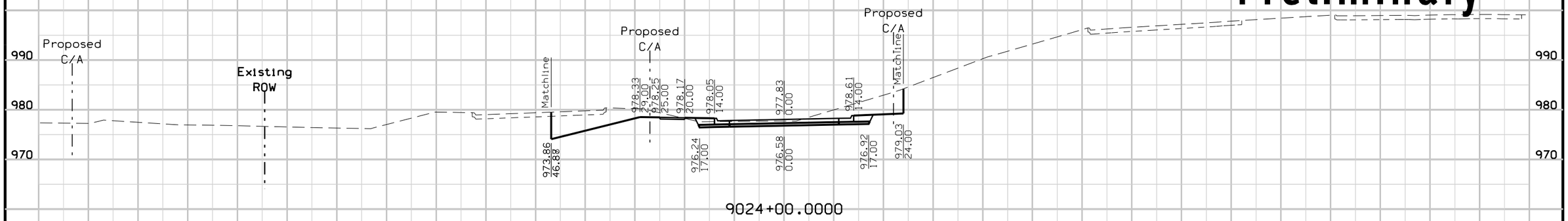
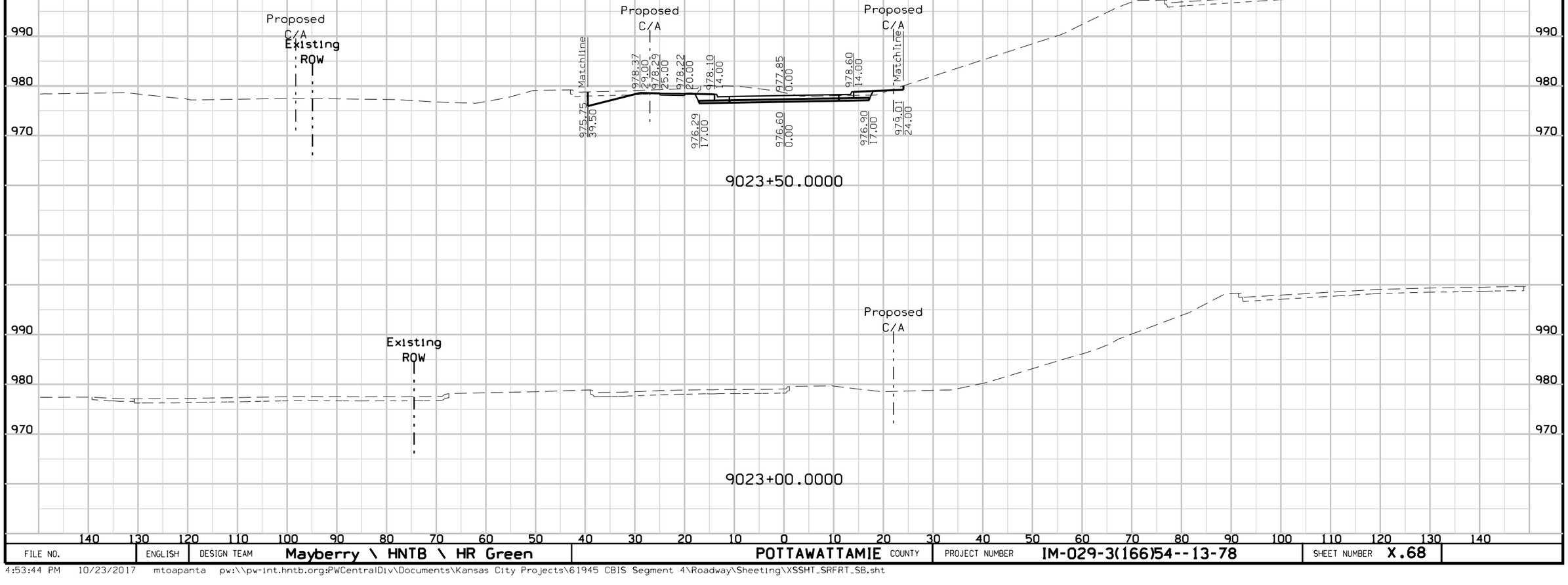
Preliminary



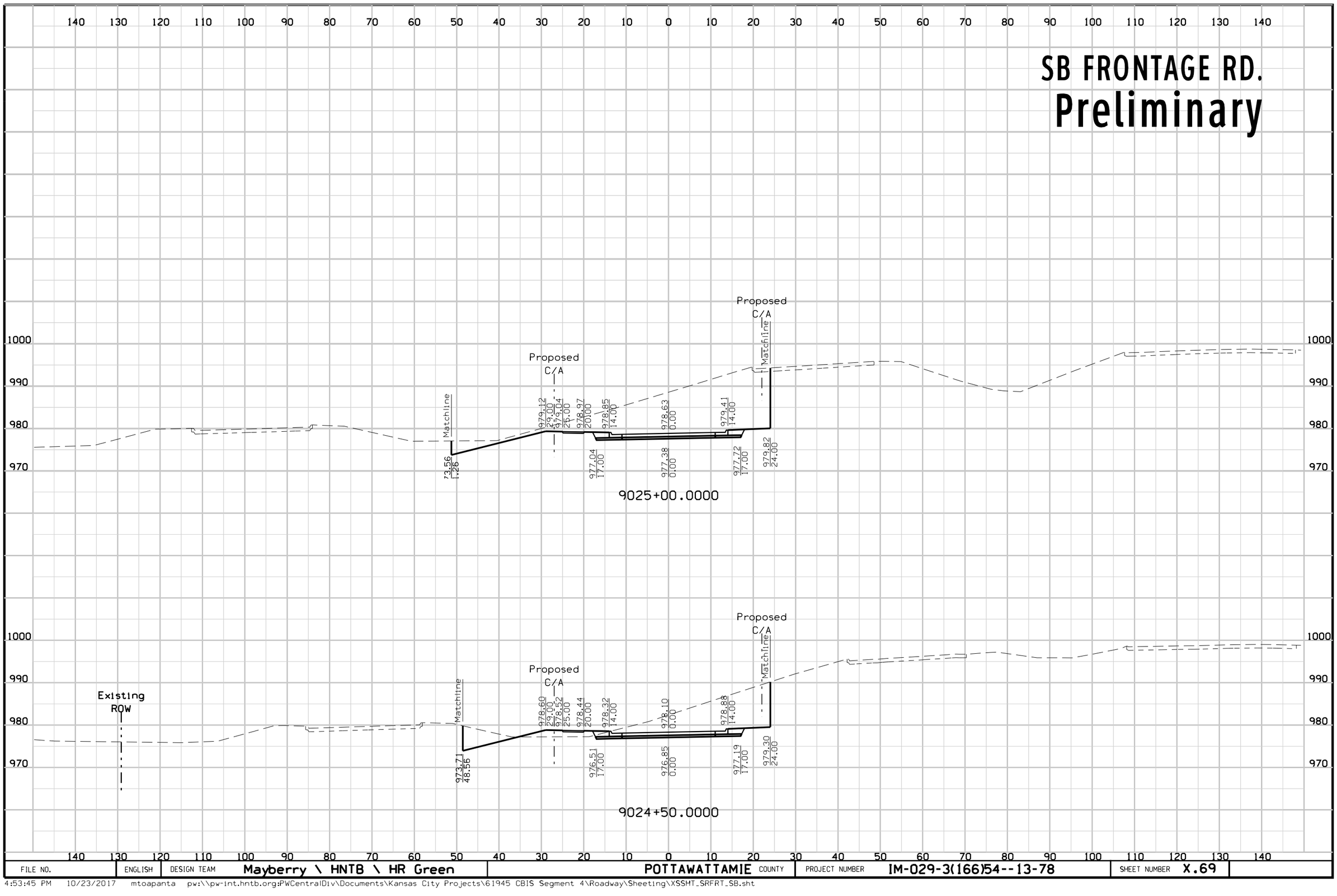


FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER	X.68

4:53:44 PM 10/23/2017 mtoapanta pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\XSSHT_SRFRT_SB.sht

SB FRONTAGE RD.

Preliminary



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER	X.69

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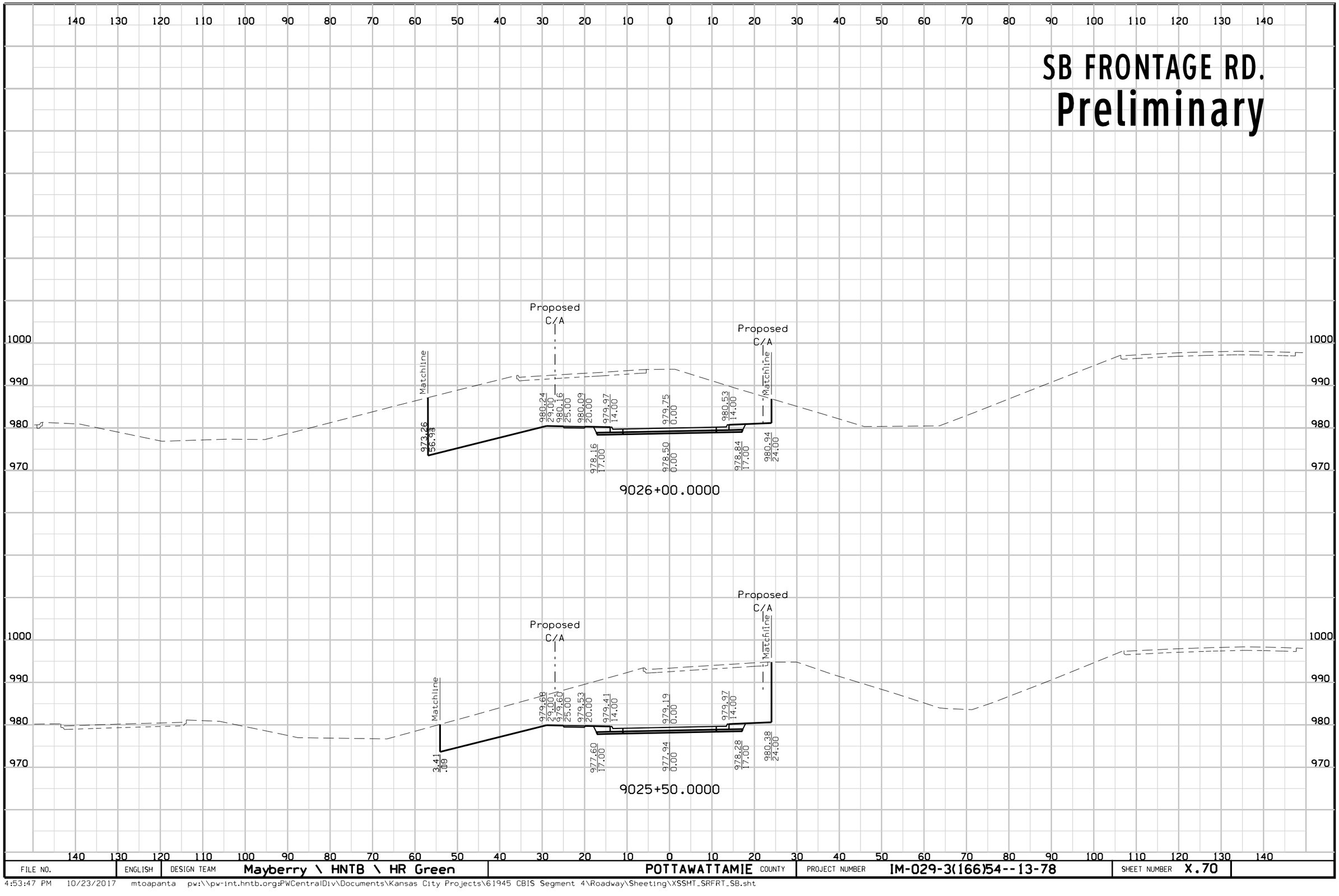
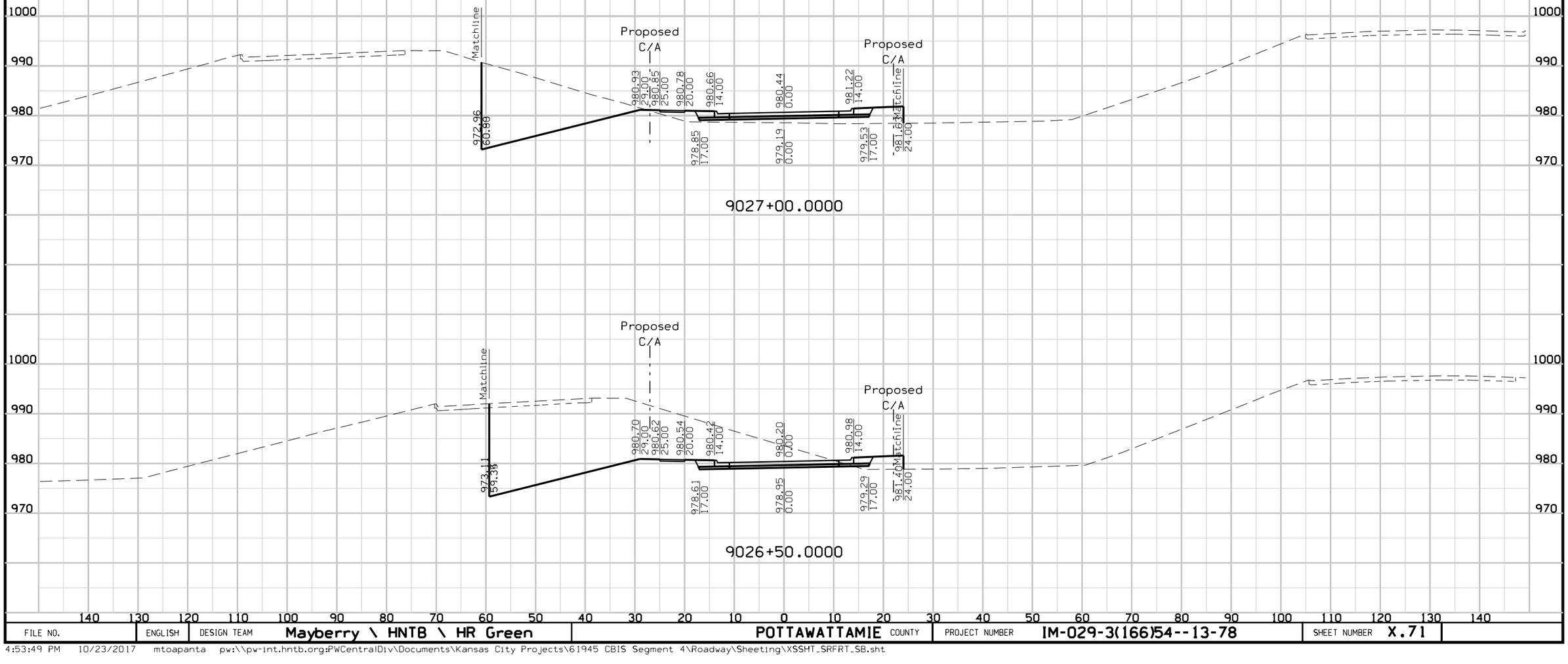
SB FRONTAGE RD.
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER X.70

4:53:47 PM 10/23/2017 mtoapanta pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\XSSHT_SRFRT_SB.sht

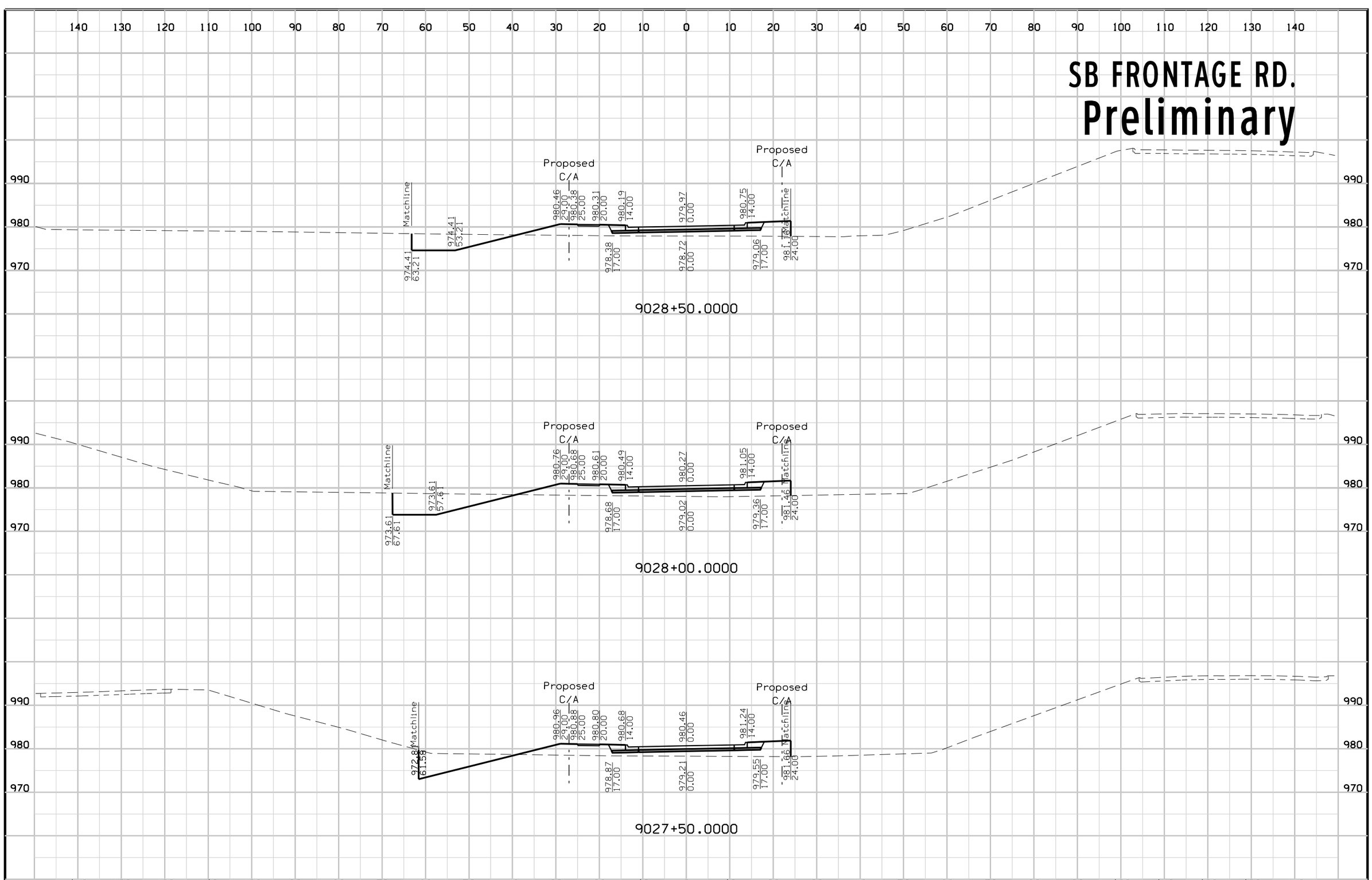
SB FRONTAGE RD.
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER	X.71

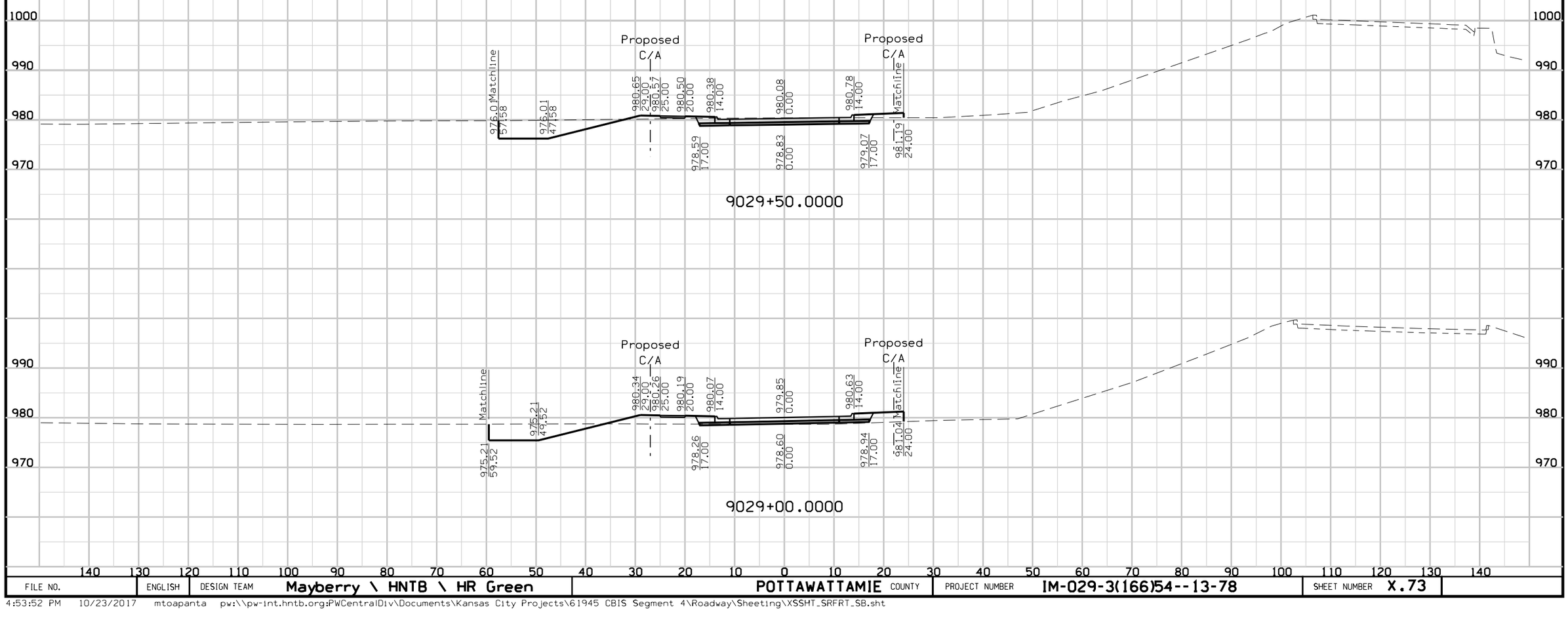
4:53:49 PM 10/23/2017 mtoapanta pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\XSSHT_SRFRT_SB.sht

SB FRONTAGE RD.
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER	X.72

SB FRONTAGE RD.
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER	X.73

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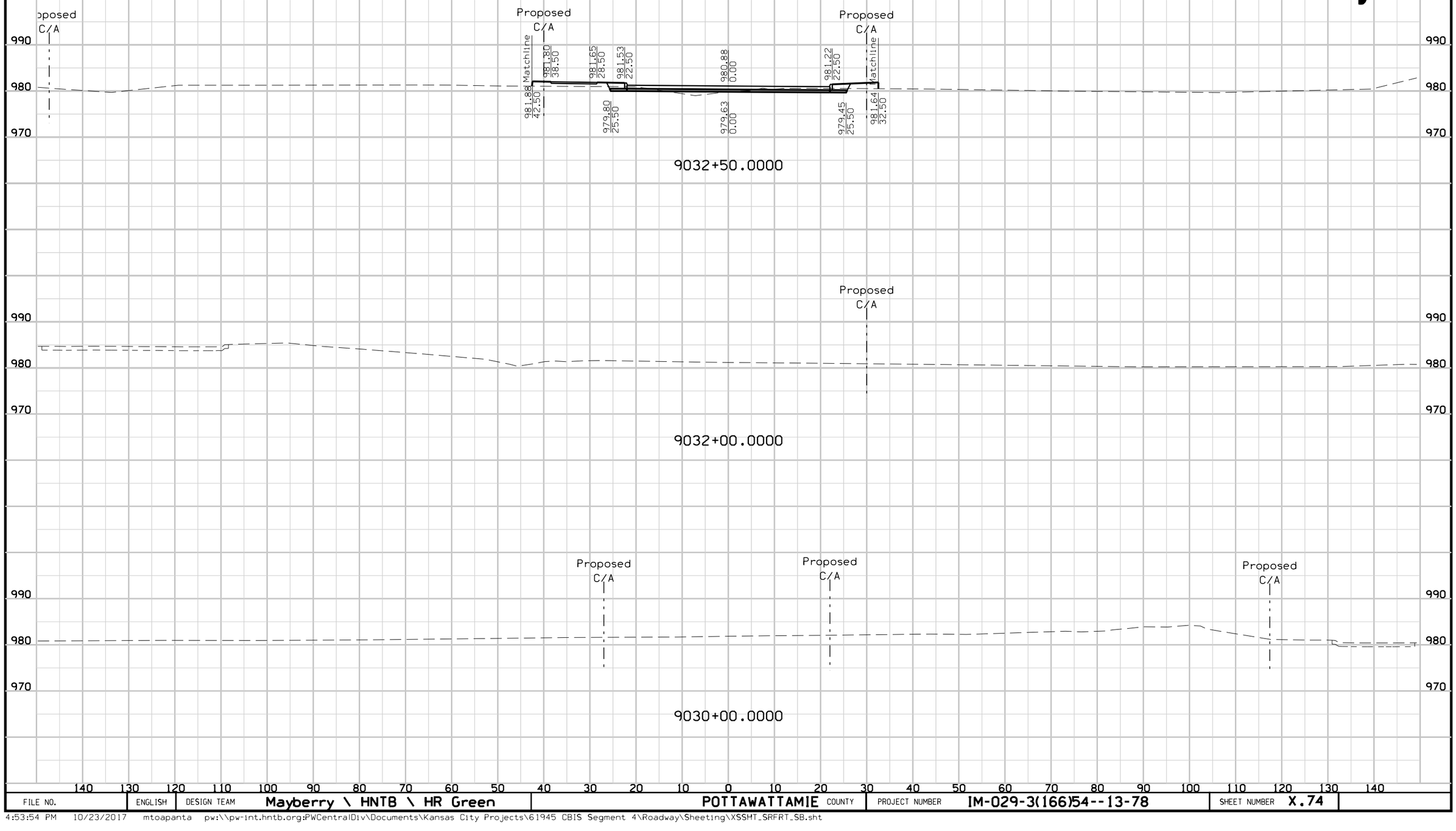
SB FRONTAGE RD.
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER	X.74

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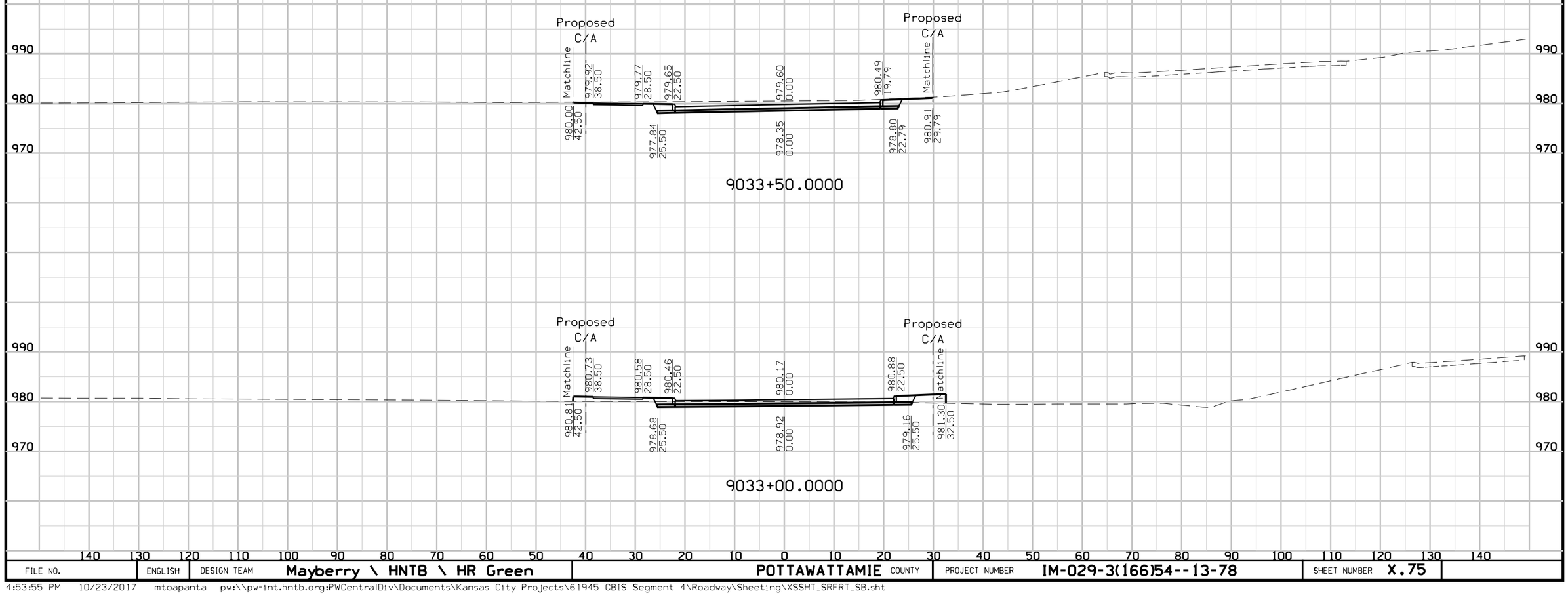
Preliminary



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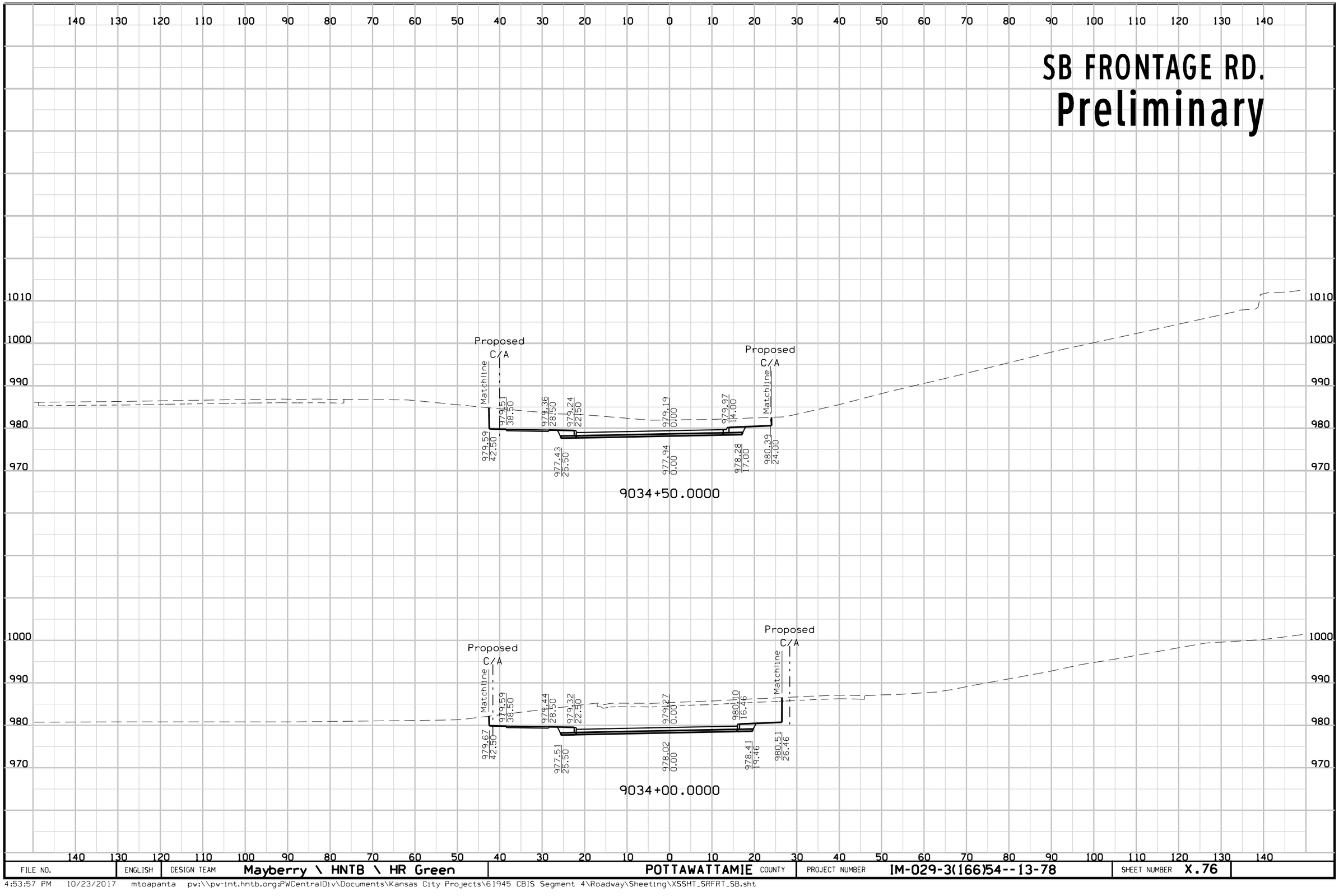

FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER	X.76

4:53:57 PM 10/23/2017 mtoapanta pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\XSSHT_SRFRT_SB.sht

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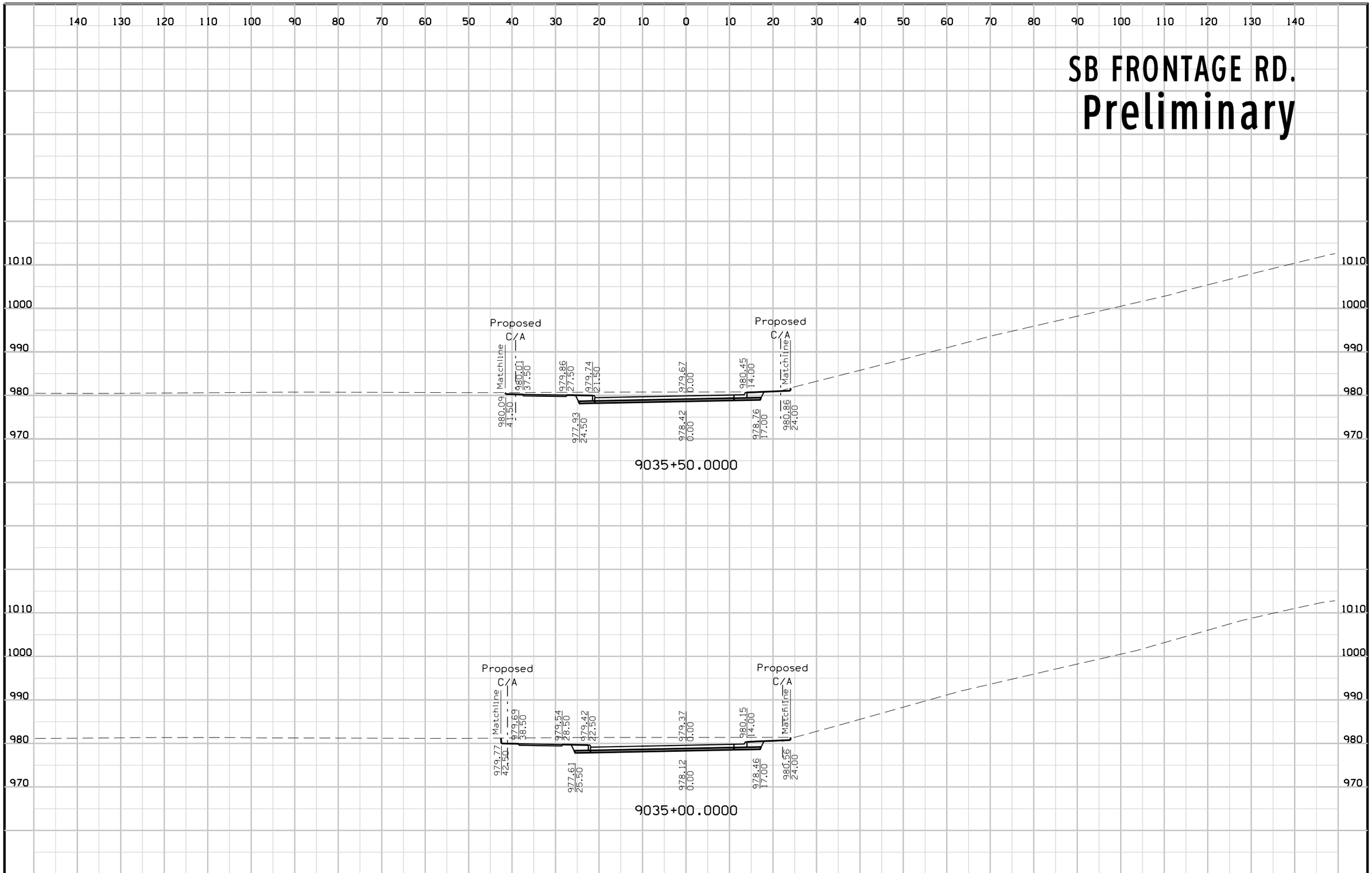
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER	X.77

4:53:59 PM 10/23/2017 mtoapanta pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\XSSHT_SRFRT_SB.sht

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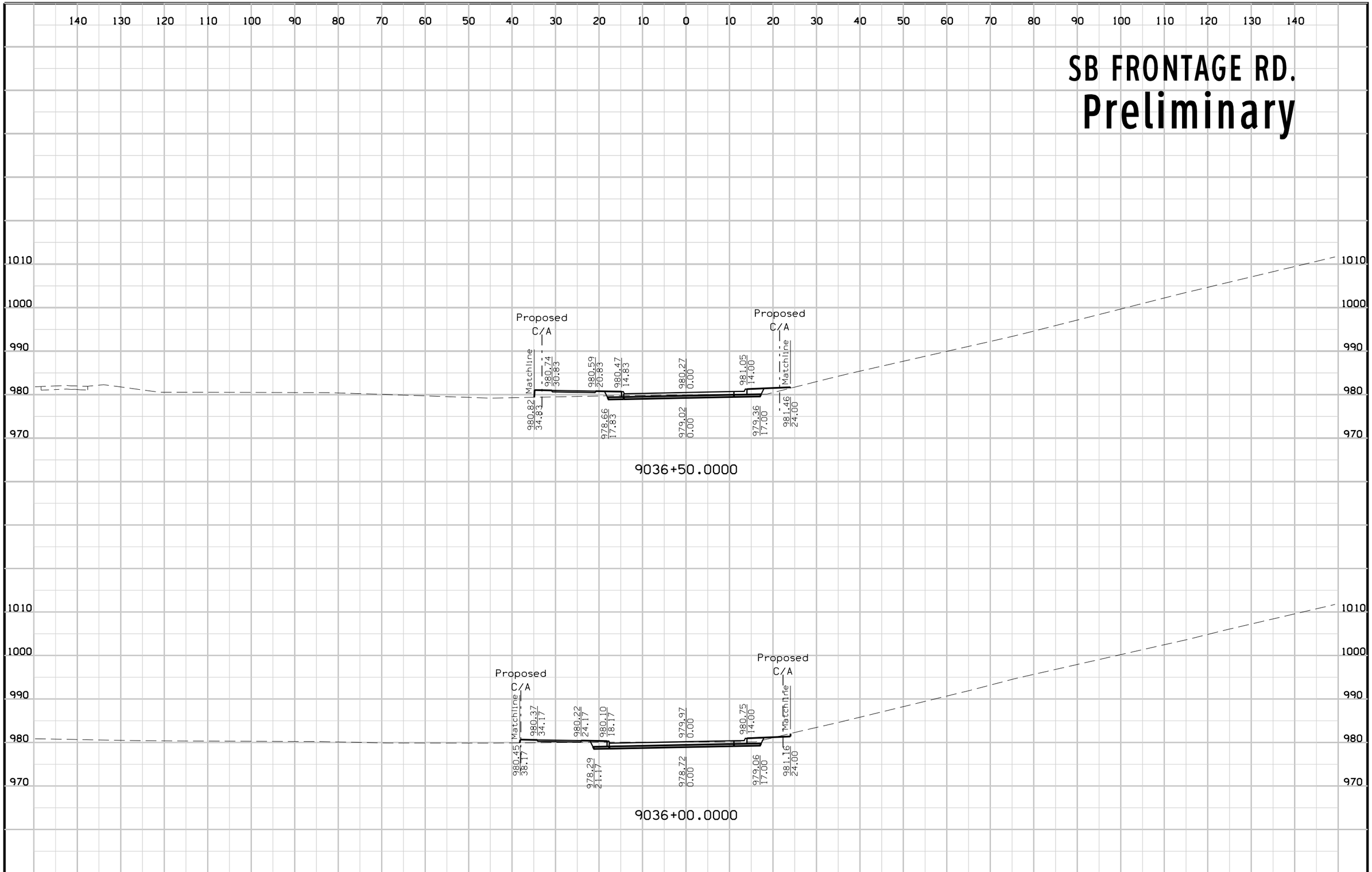
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER	X.78

4:54:00 PM 10/23/2017 mtoapanta pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\XSSHT_SRFRT_SB.sht

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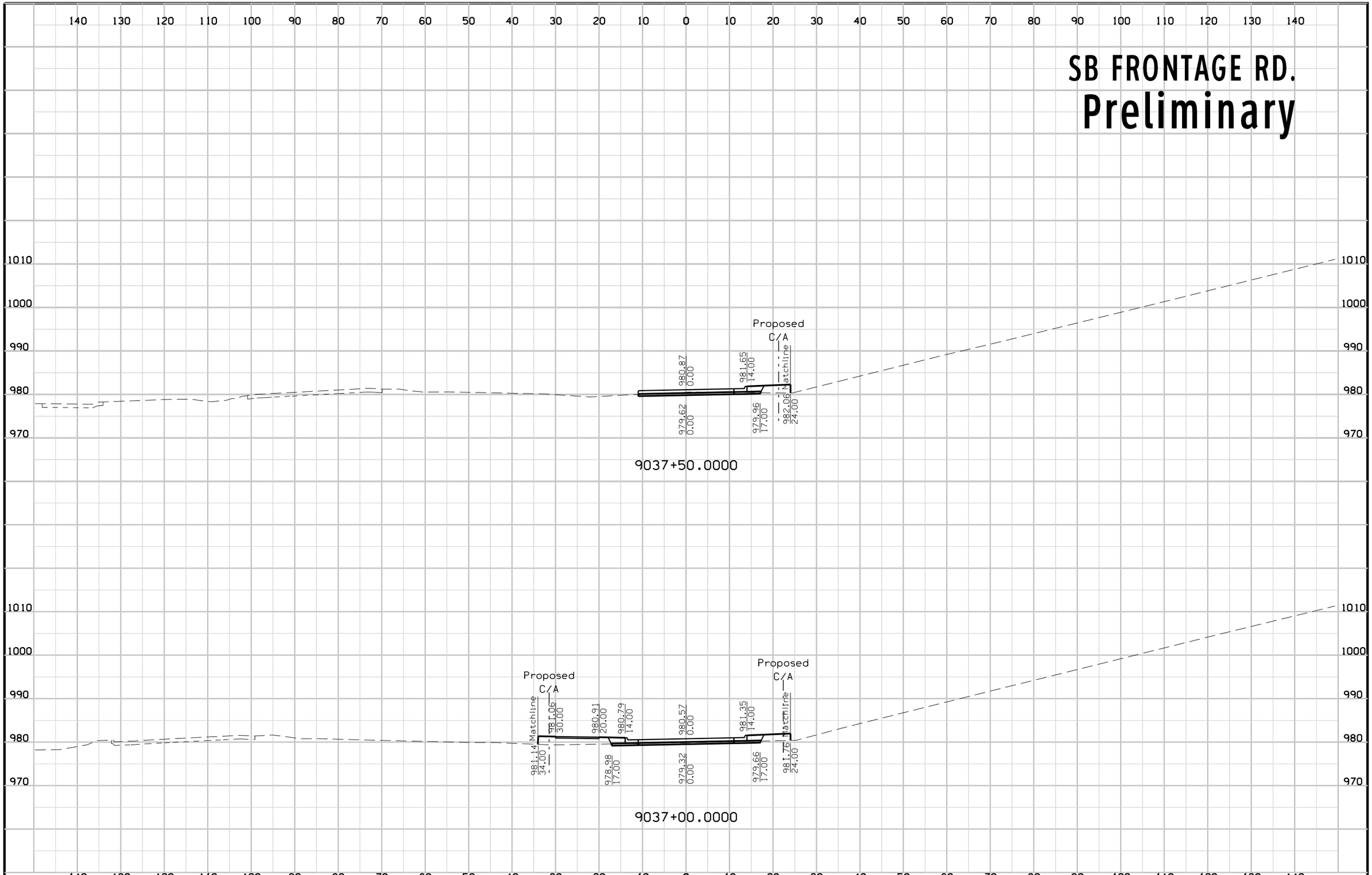
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER	X.79

4:54:02 PM 10/23/2017 mtoapanta pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\XSSHT_SRFRT_SB.sht

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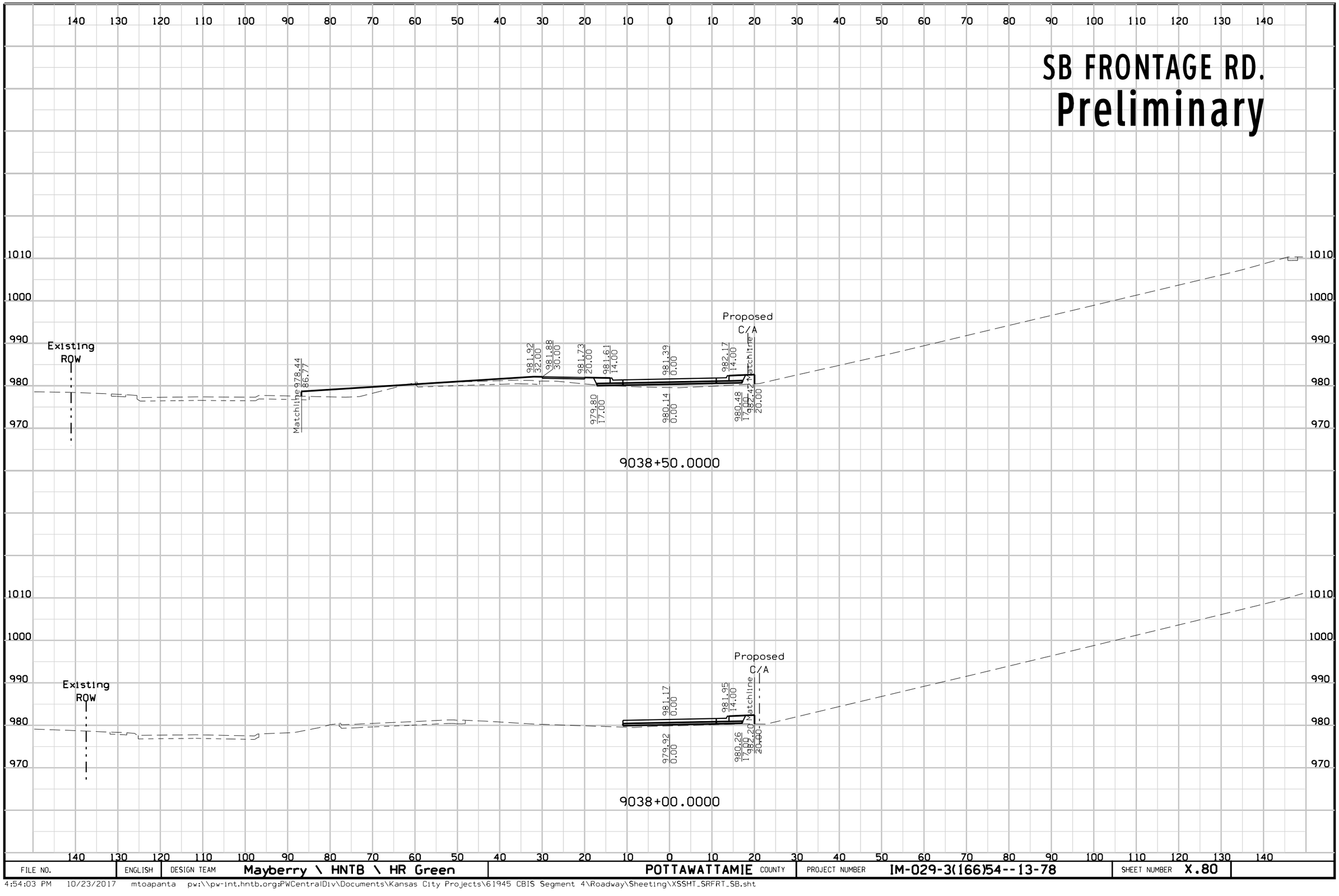

FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER X.80

4:54:03 PM 10/23/2017 mtoapanta pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\XSSHT_SRFRT_SB.sht

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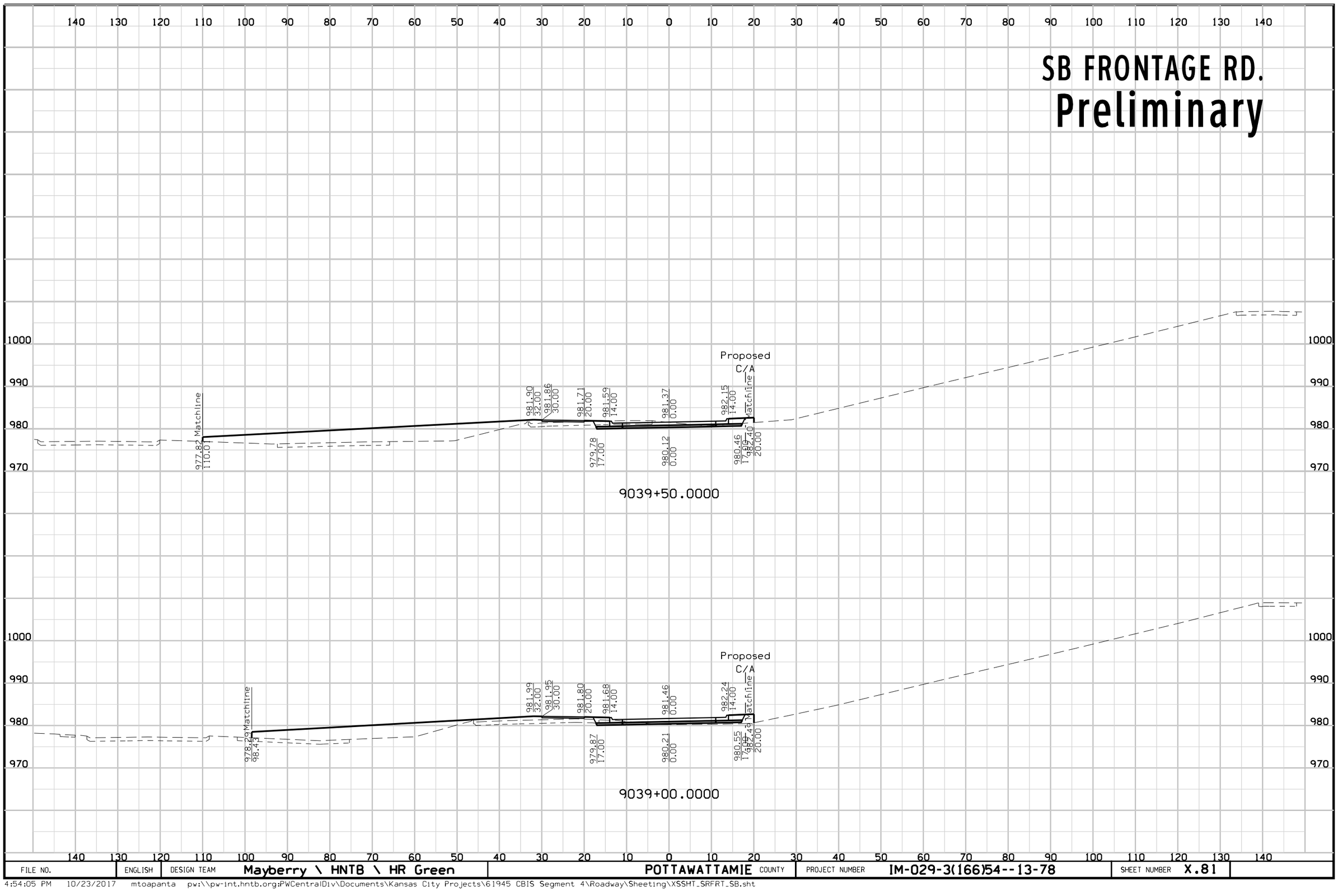
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER	X.81

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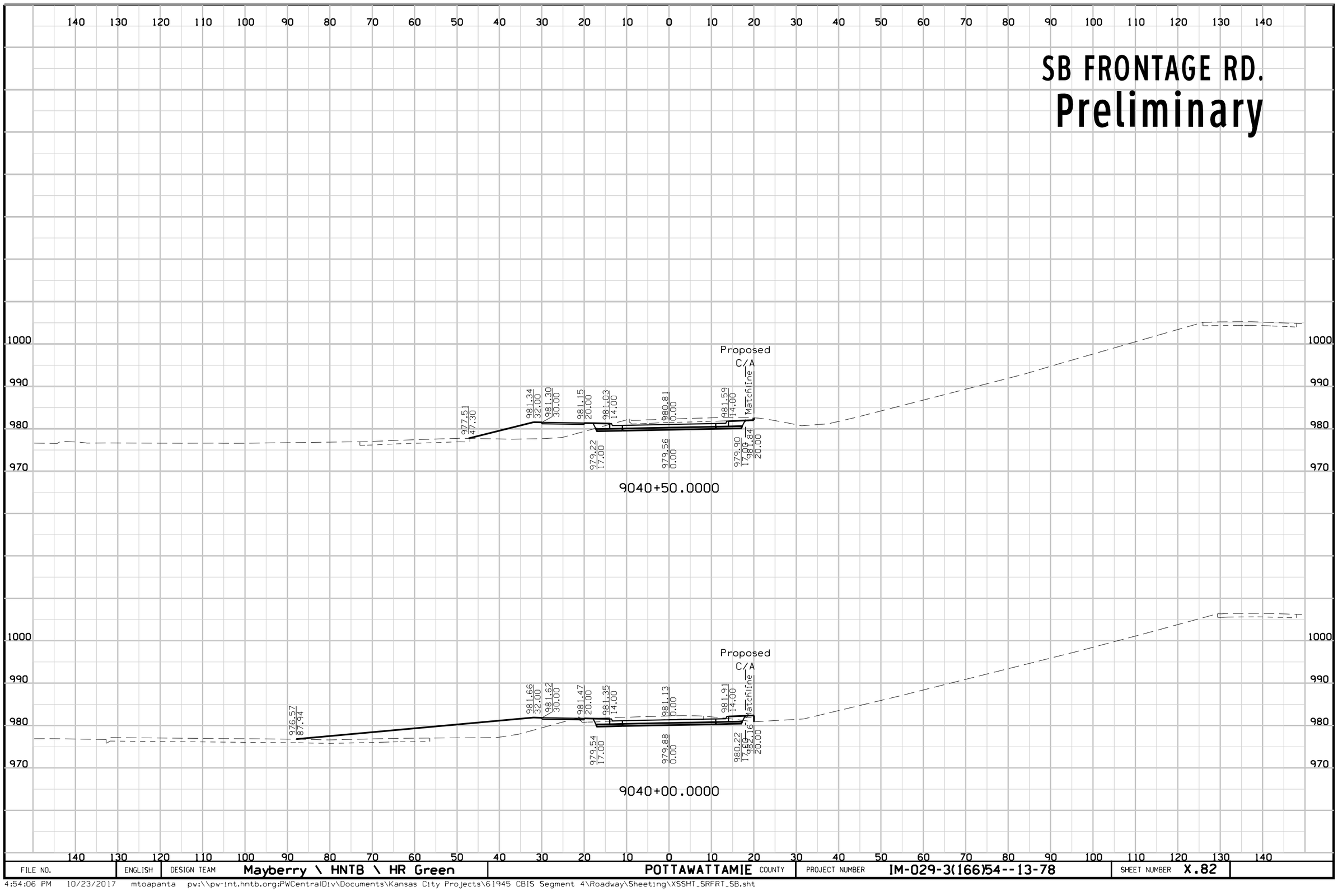
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER	X.82

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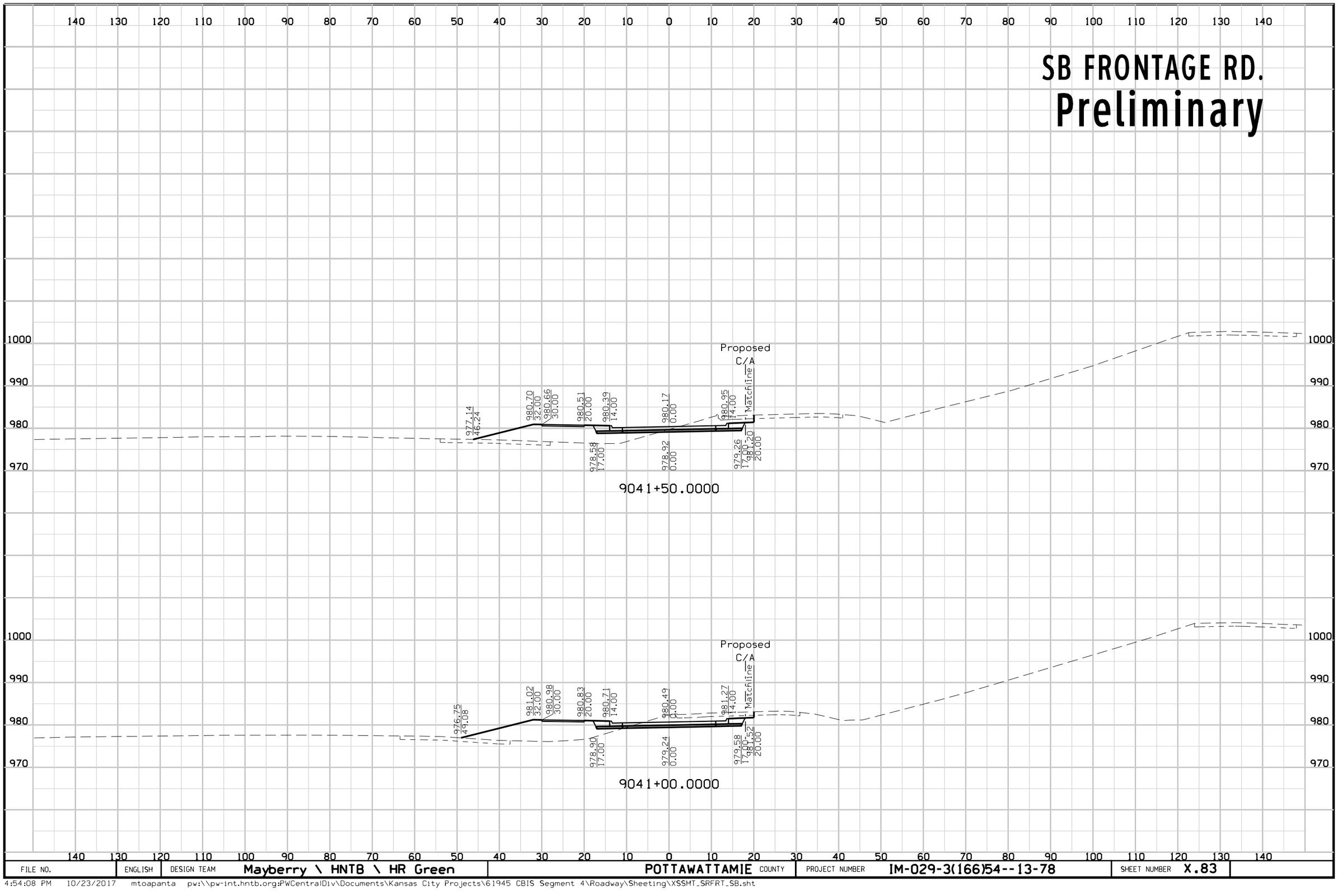

FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER	X.83

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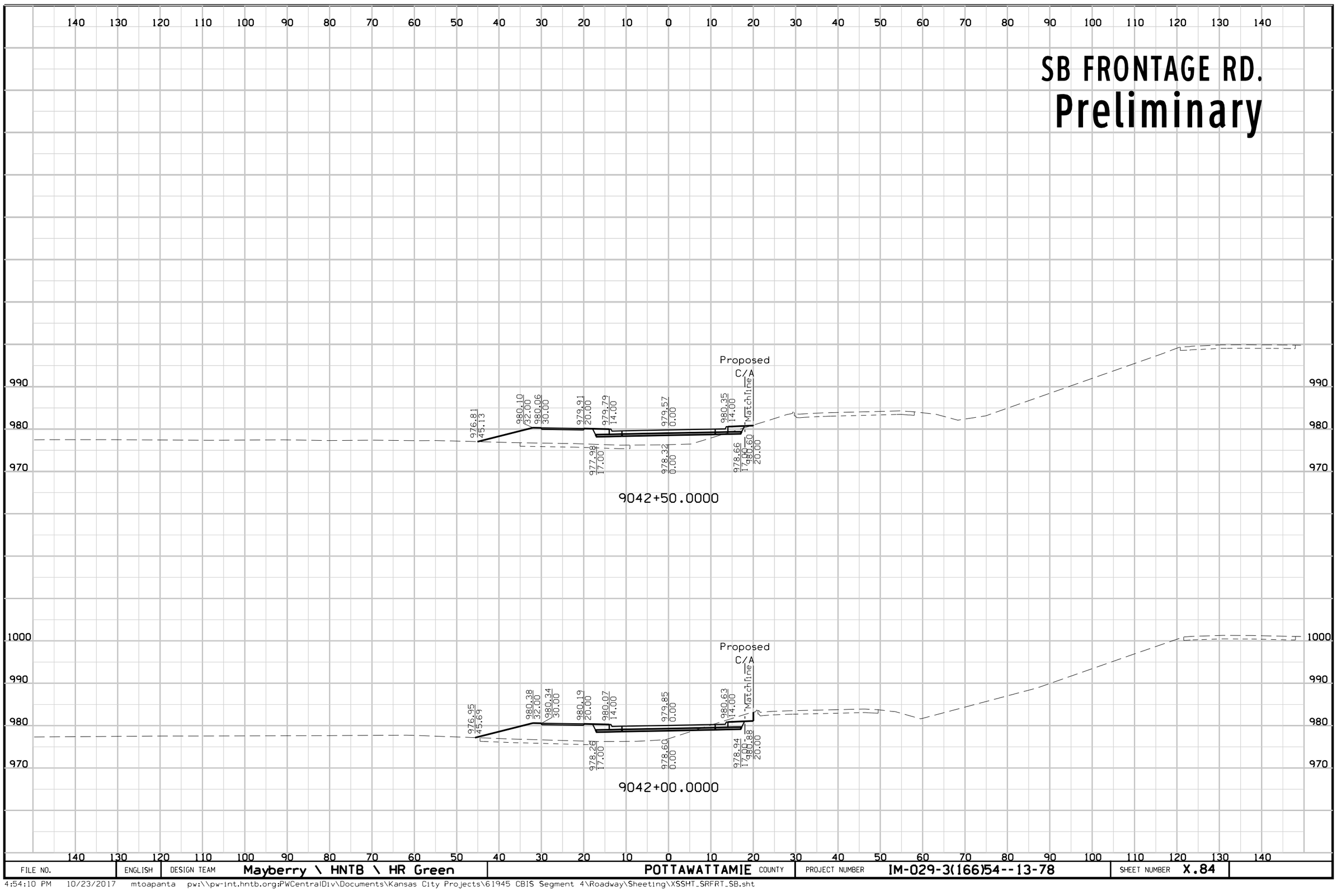
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER	X.84

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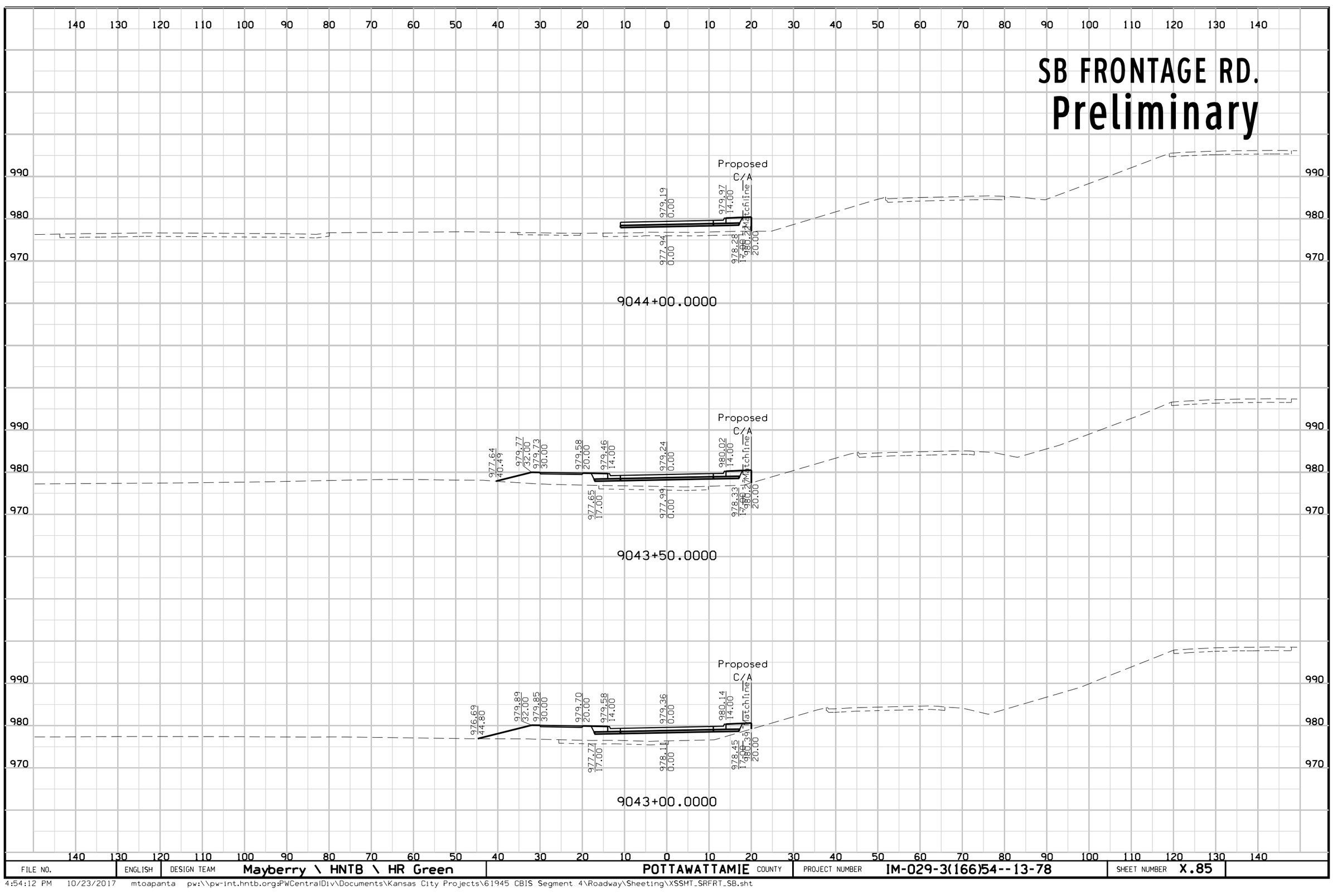
SB FRONTAGE RD.

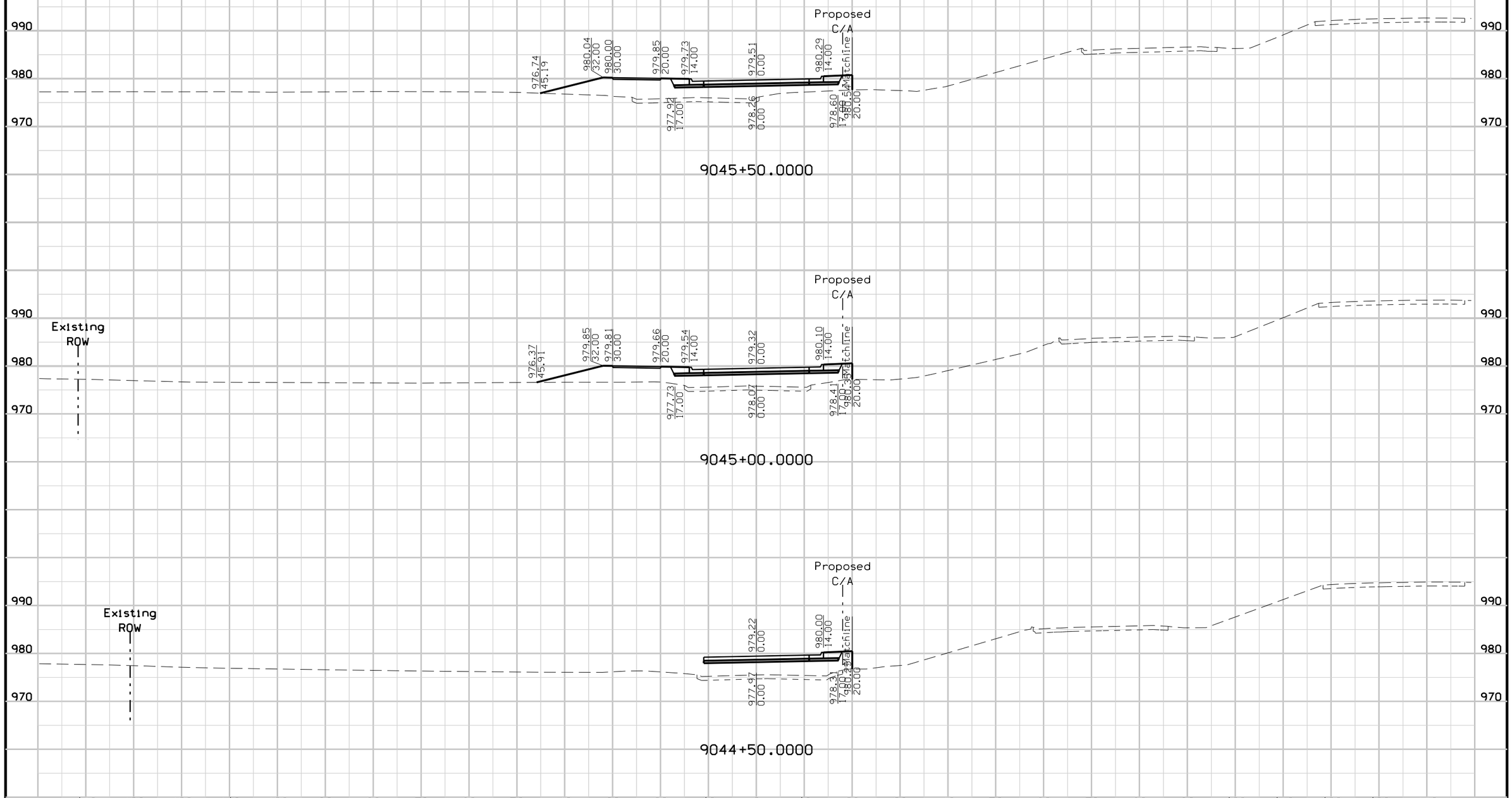
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER	X.85

4:54:12 PM 10/23/2017 mtoapanta pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\XSSHT_SRFRT_SB.sht

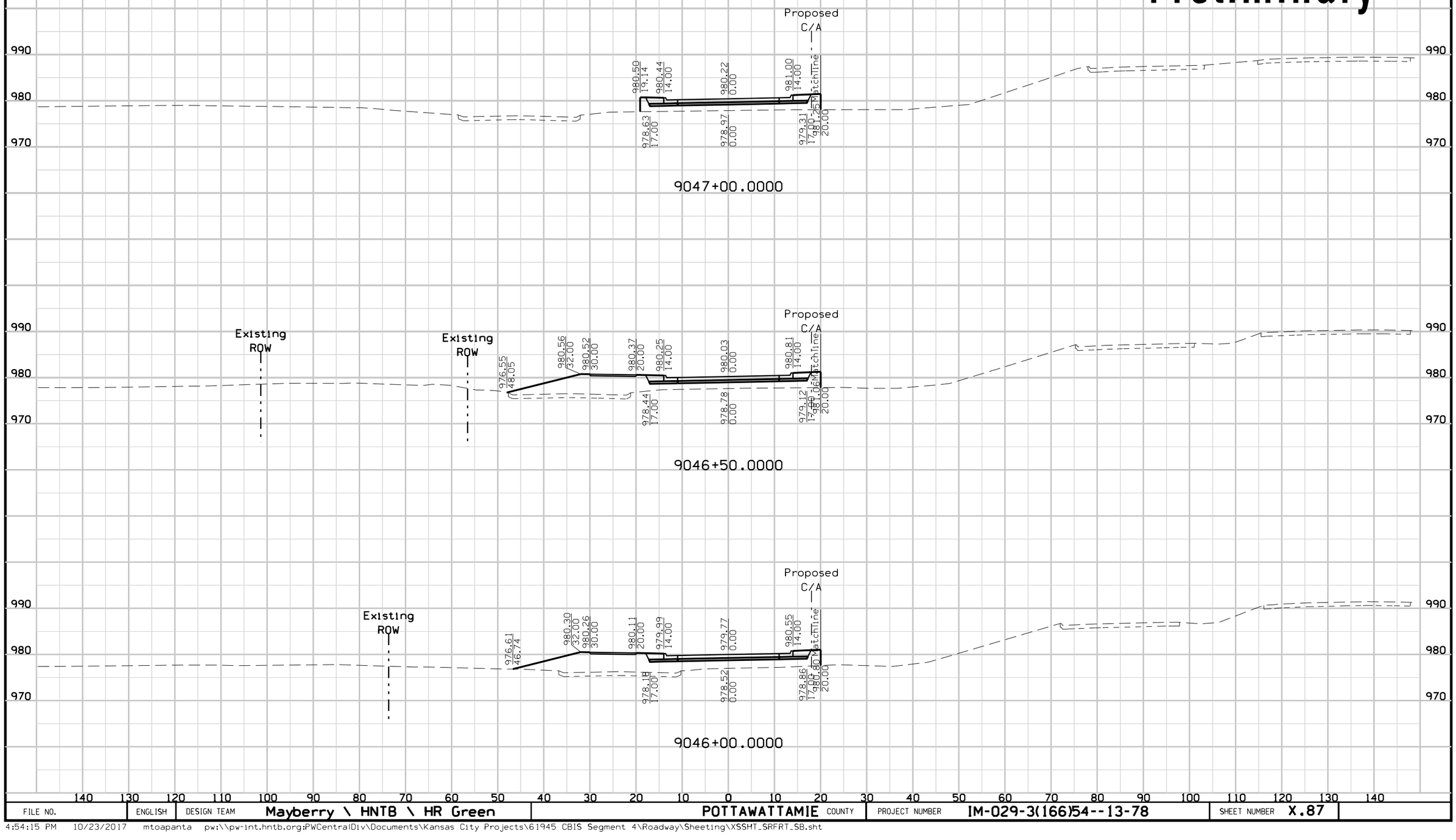
SB FRONTAGE RD.
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER	X.86

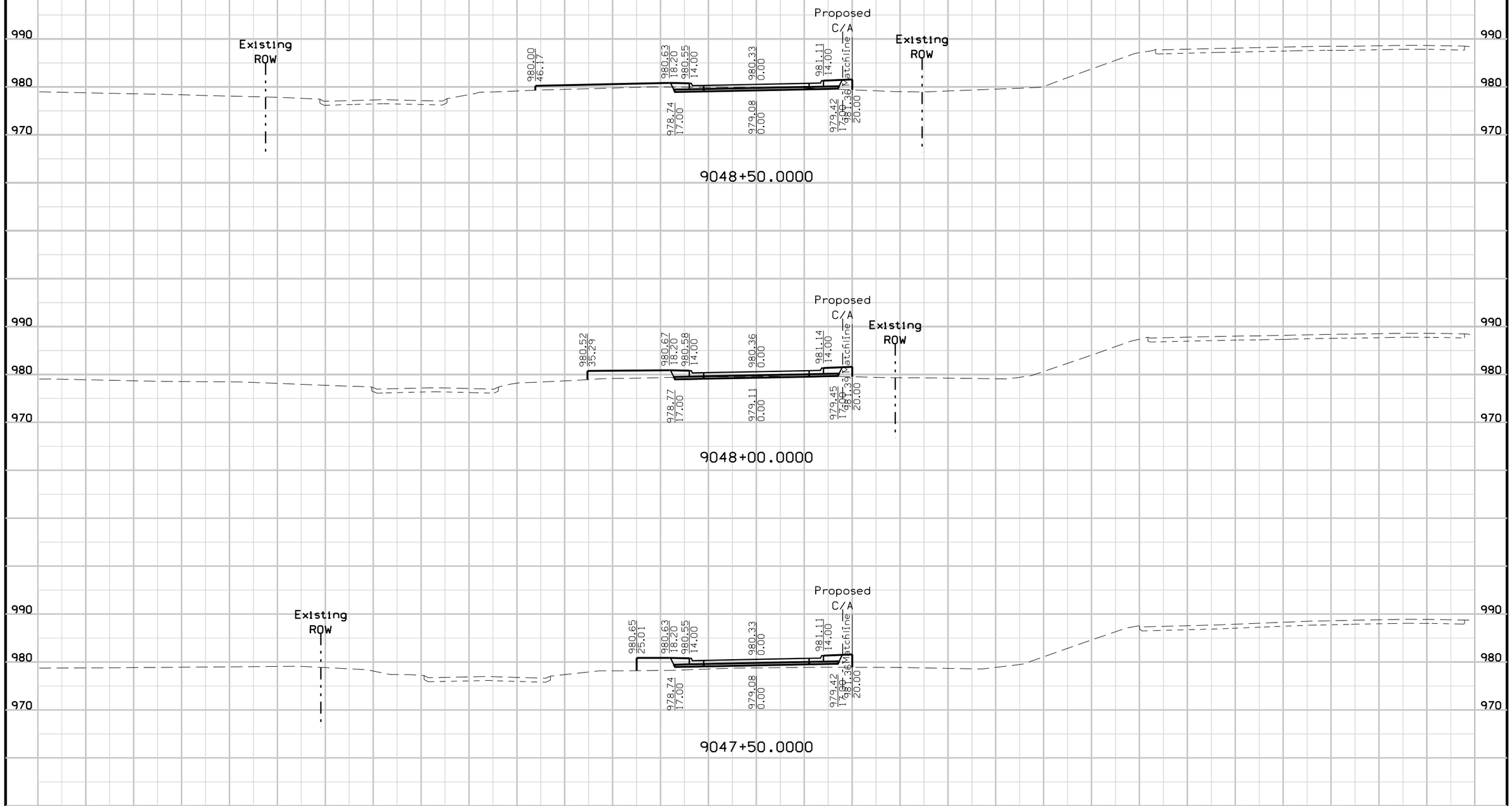
4:54:13 PM 10/23/2017 mtoapanta pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\XSSHT_SRFRT_SB.sht

SB FRONTAGE RD.
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER	X.87

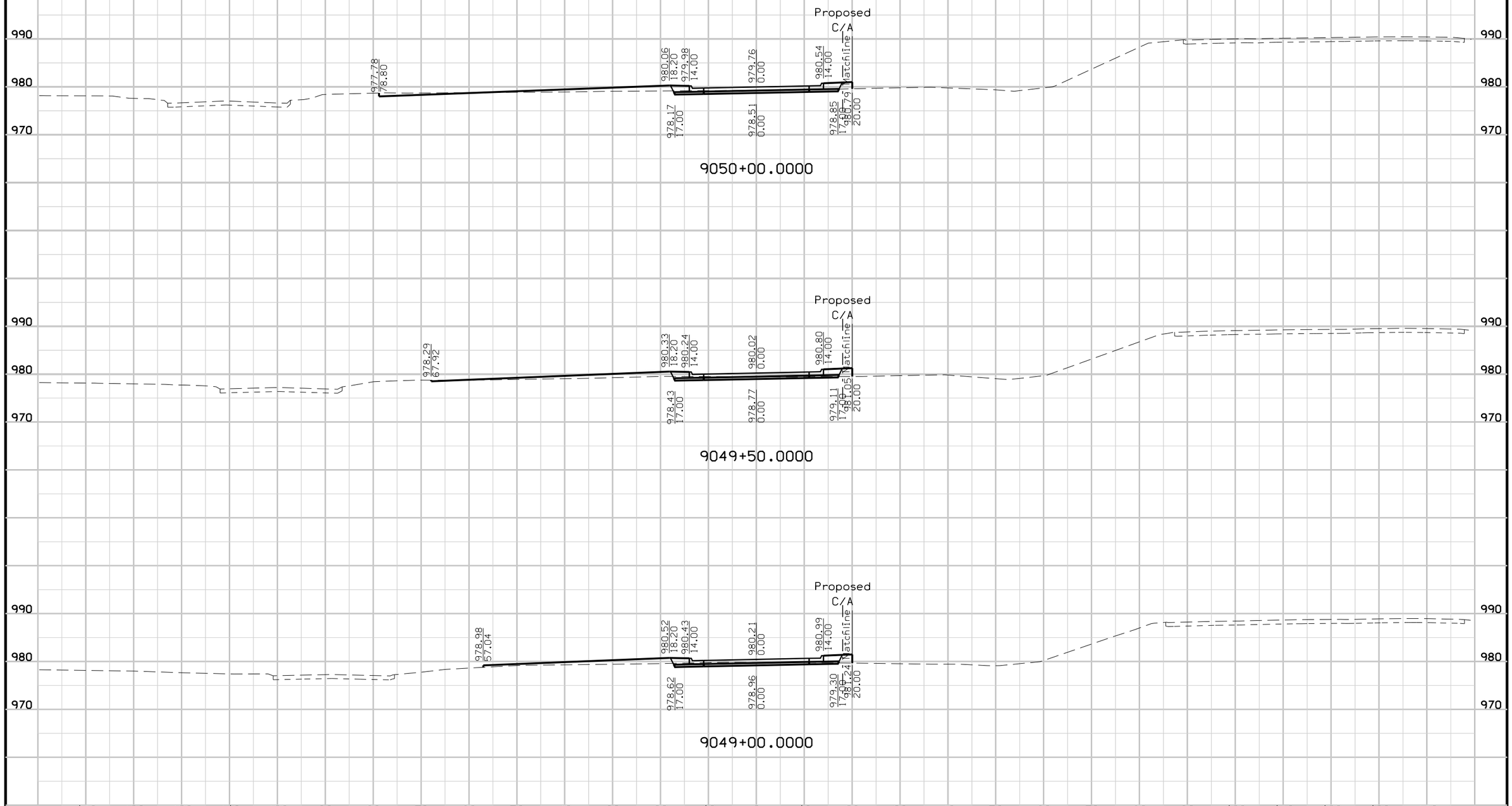
SB FRONTAGE RD.
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER X.88

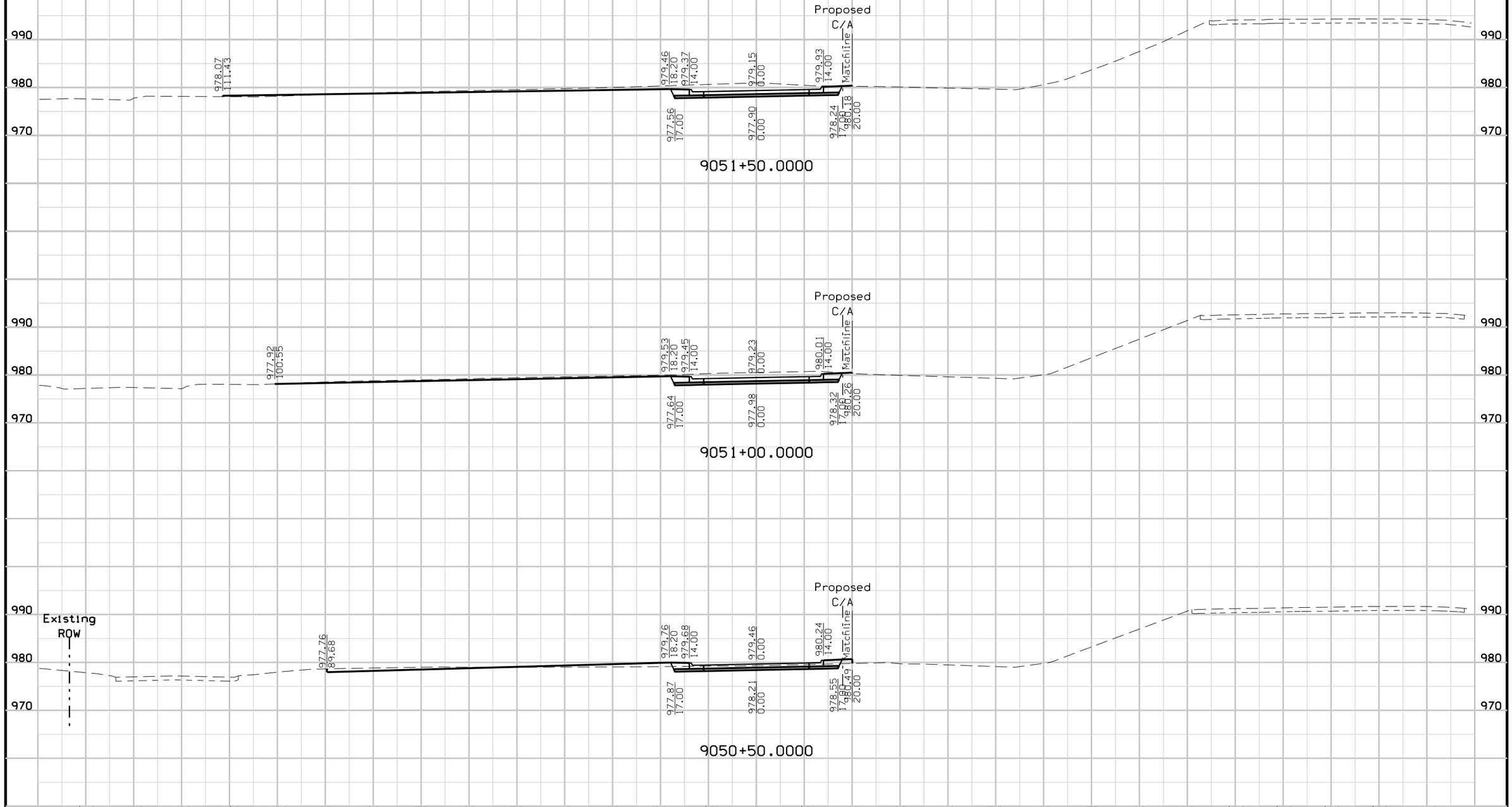
4:54:17 PM 10/23/2017 mtoapanta pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\XSSHT_SRFRT_SB.sht

SB FRONTAGE RD.
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER X.89

SB FRONTAGE RD.
Preliminary

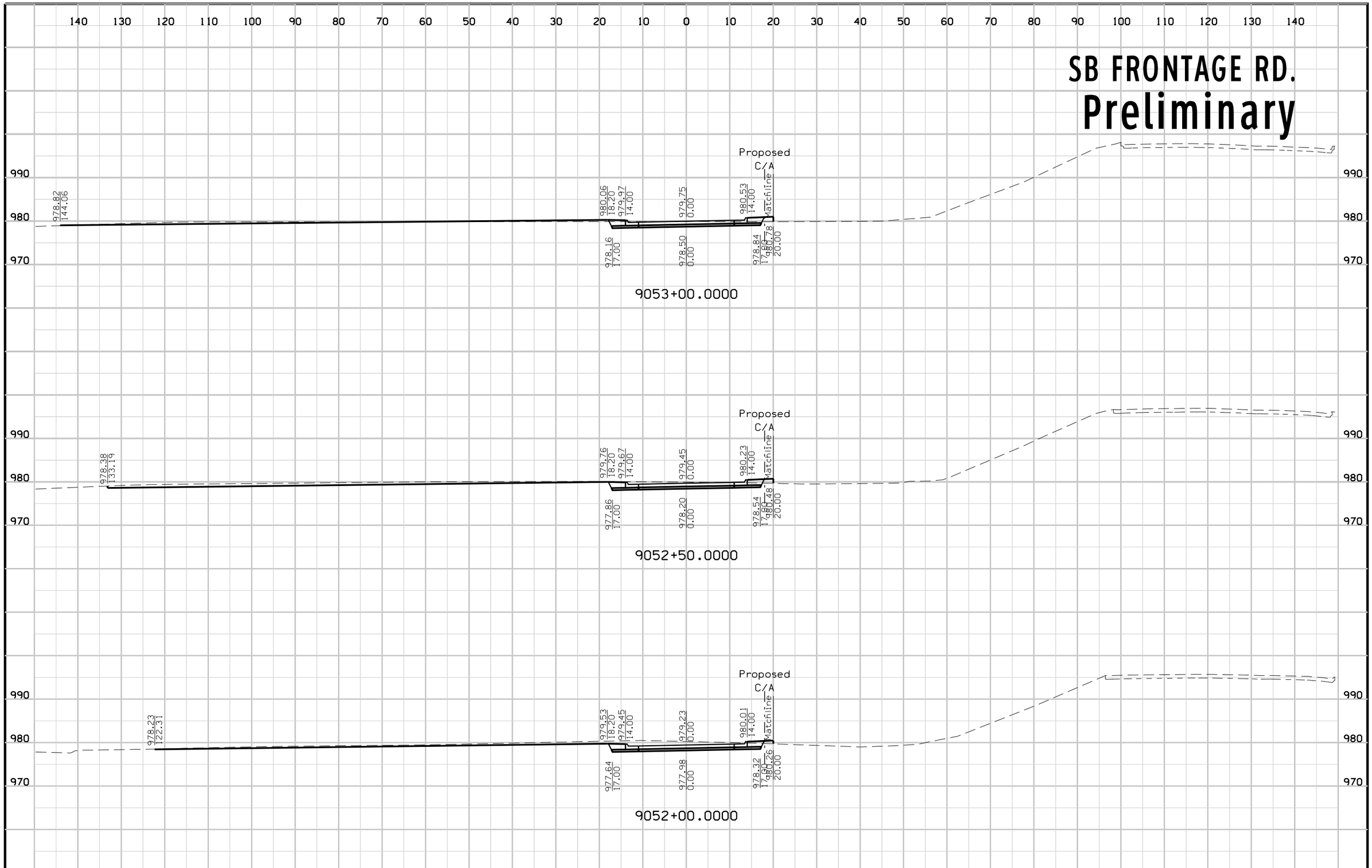


FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER	X.90

4:54:20 PM 10/23/2017 mtoapanta pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\XSSHT_SRFRT_SB.sht

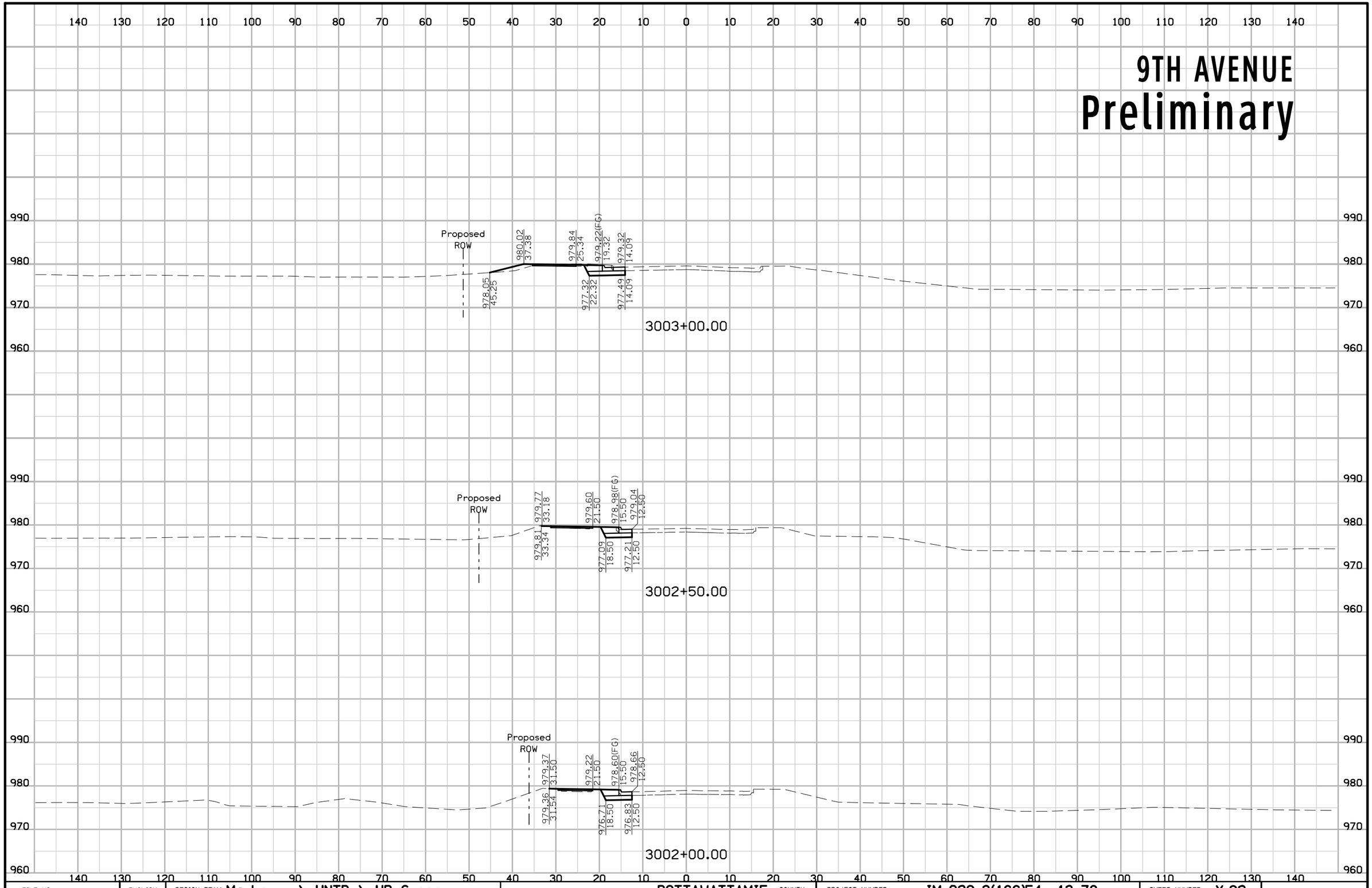
SB FRONTAGE RD.

Preliminary



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER	X.91

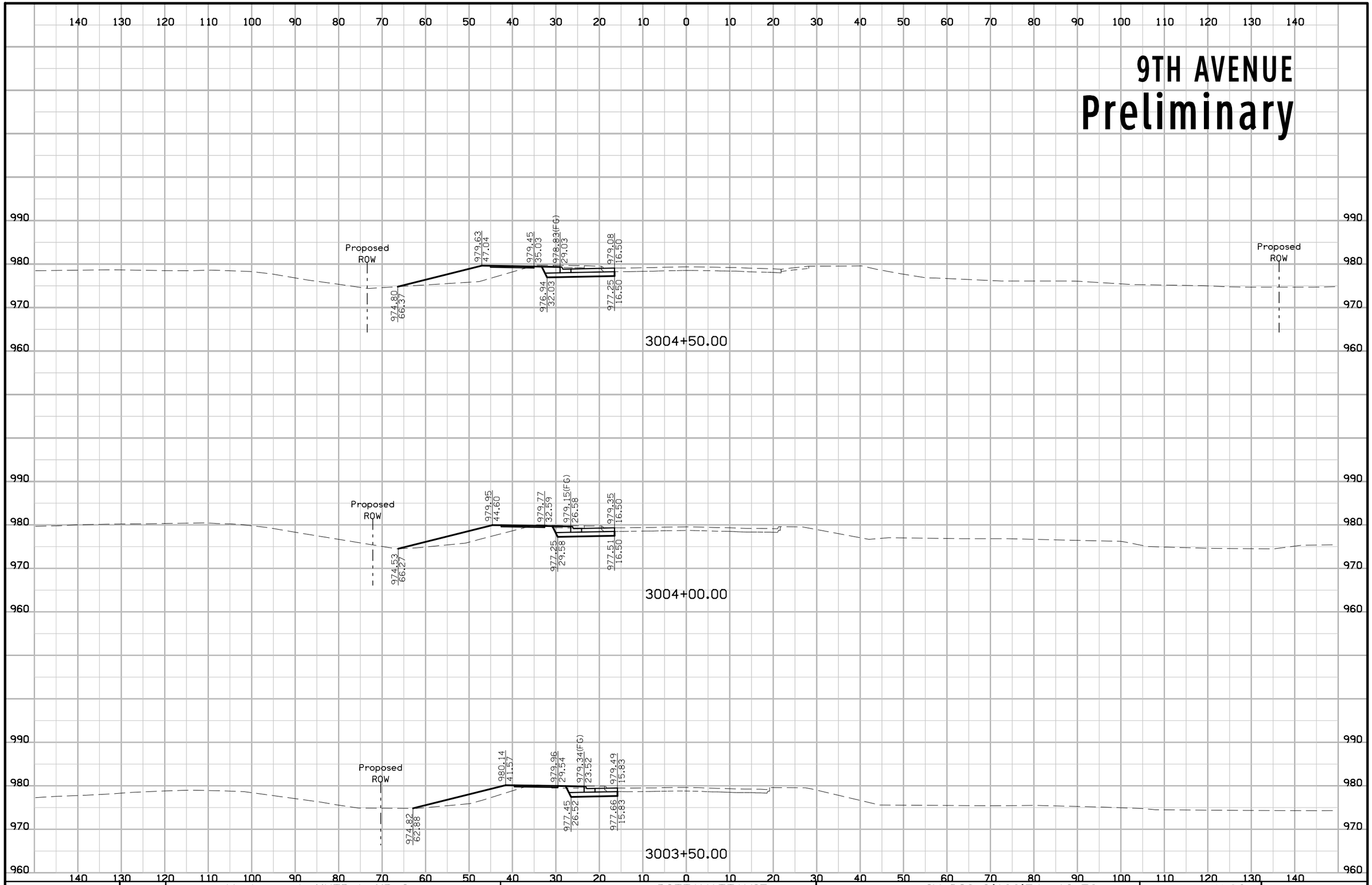
9TH AVENUE
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER IM-029-3(166)54--13-78	SHEET NUMBER X.92

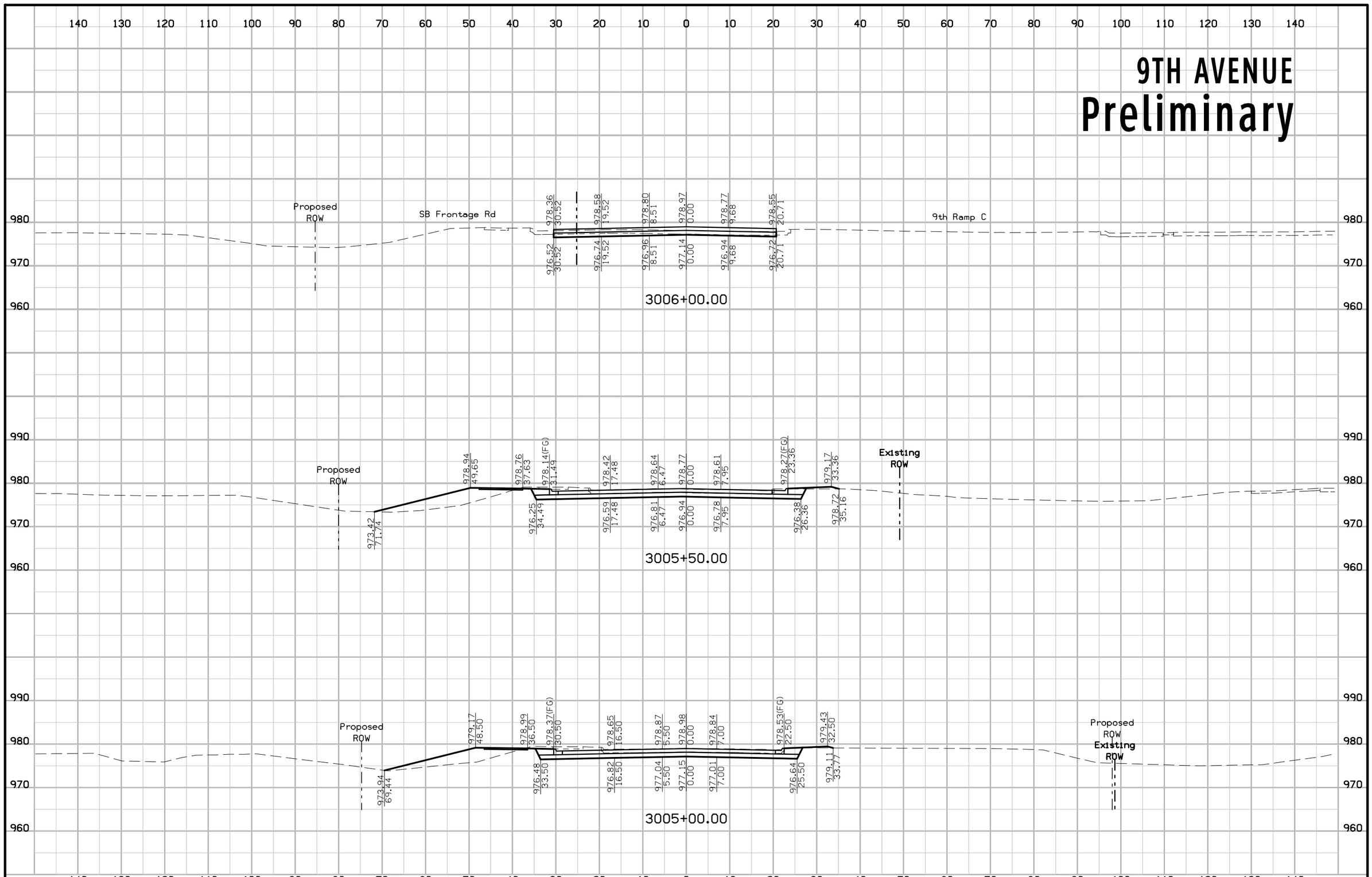
2:07:58 PM 10/25/2017 ddudley pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\+HR_Green\Design-HR Green\Sheeting-HR Green\78029166-HRG-X92_9th.sht

9TH AVENUE
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER IM-029-3(166)54--13-78	SHEET NUMBER X.93

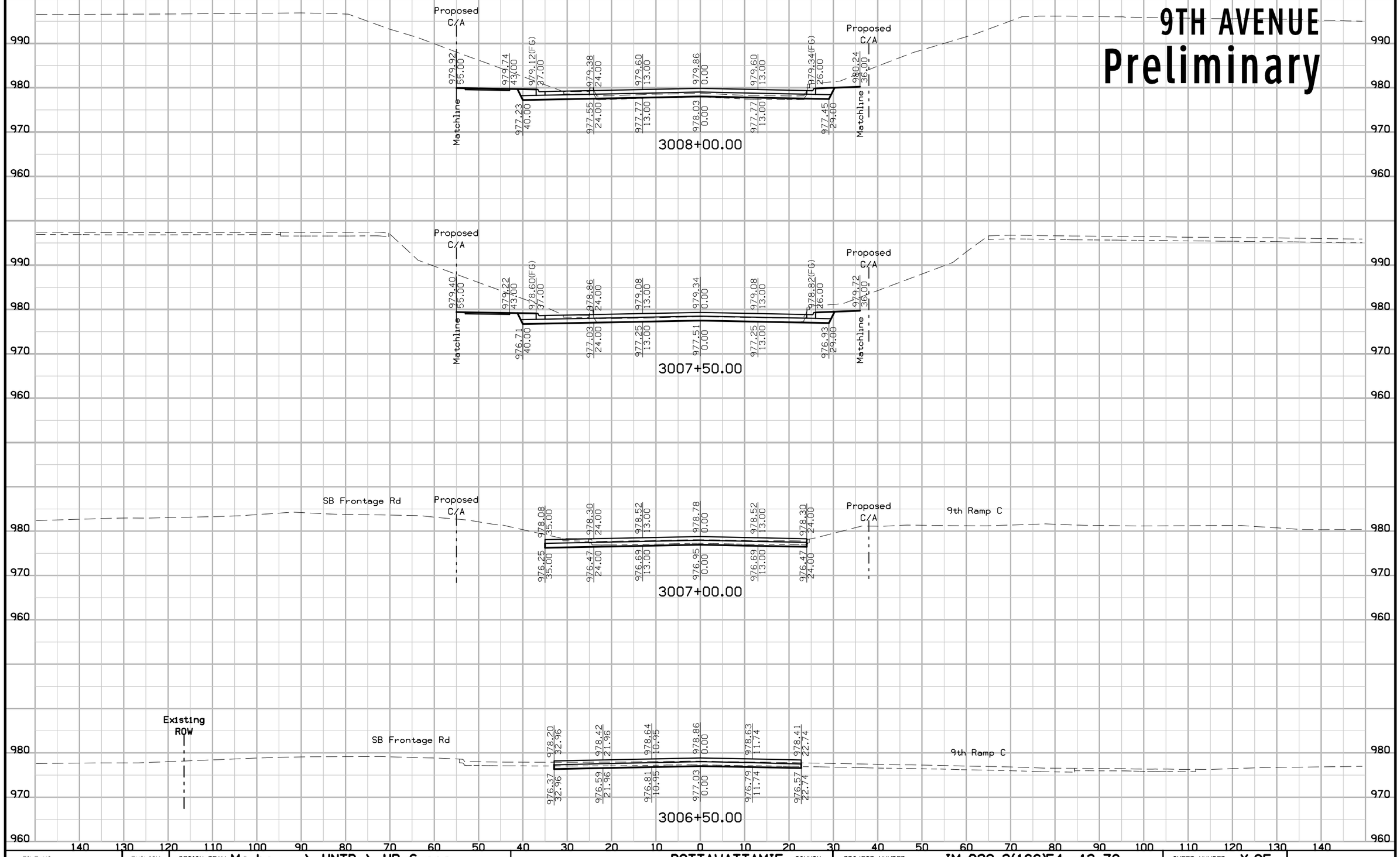
9TH AVENUE
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER IM-029-3(166)54--13-78	SHEET NUMBER X.94

2:08:01 PM 10/25/2017 ddudley pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\+HR_Green\Design-HR Green\Sheeting-HR Green\78029166-HRG-X92_9th.sht

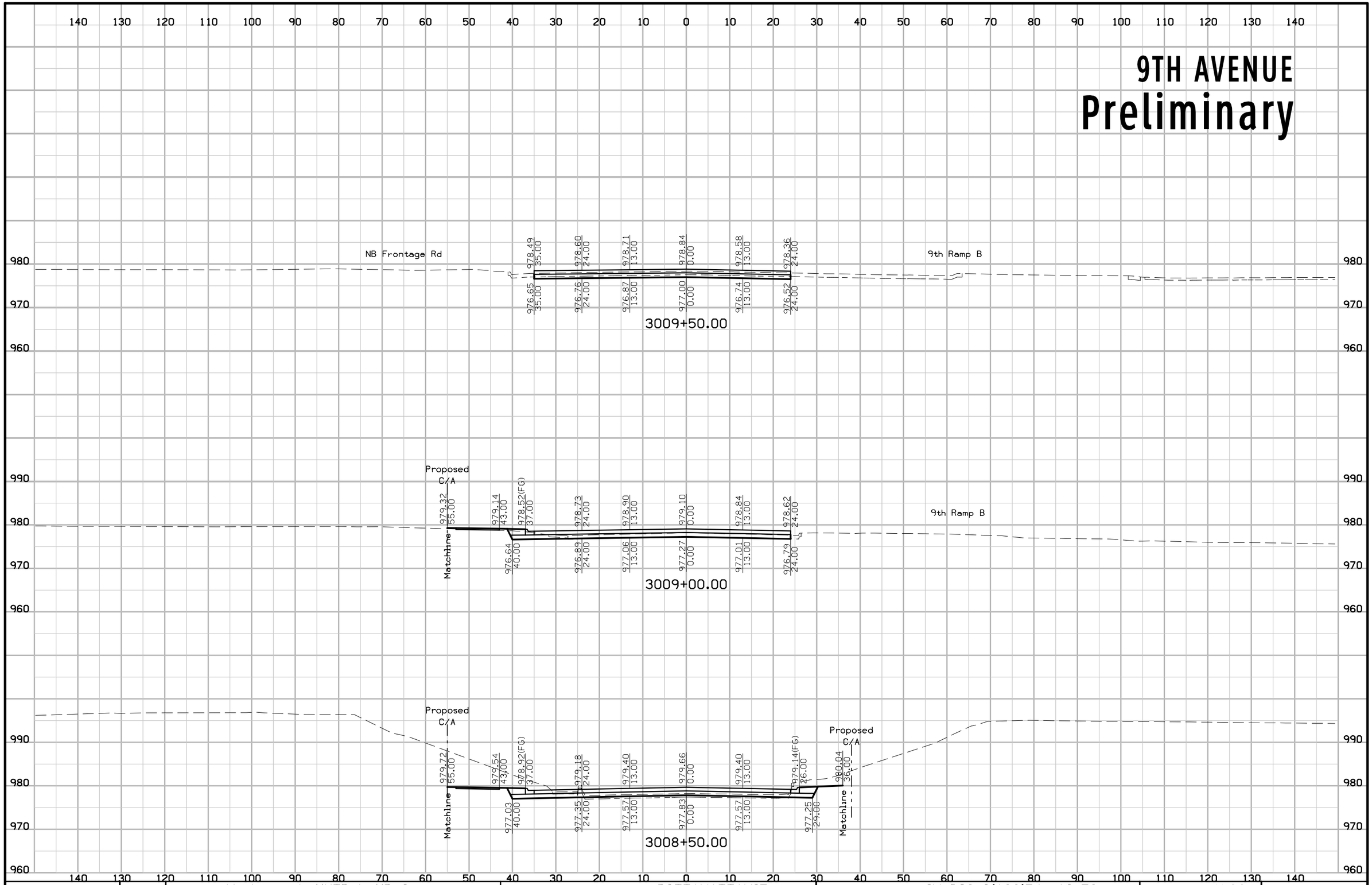
9TH AVENUE
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER IM-029-3(166)54--13-78	SHEET NUMBER X.95

2:08:03 PM 10/25/2017 ddudley pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\+HR_Green\Design-HR Green\Sheeting-HR Green\78029166-HRG-X92_9th.sht

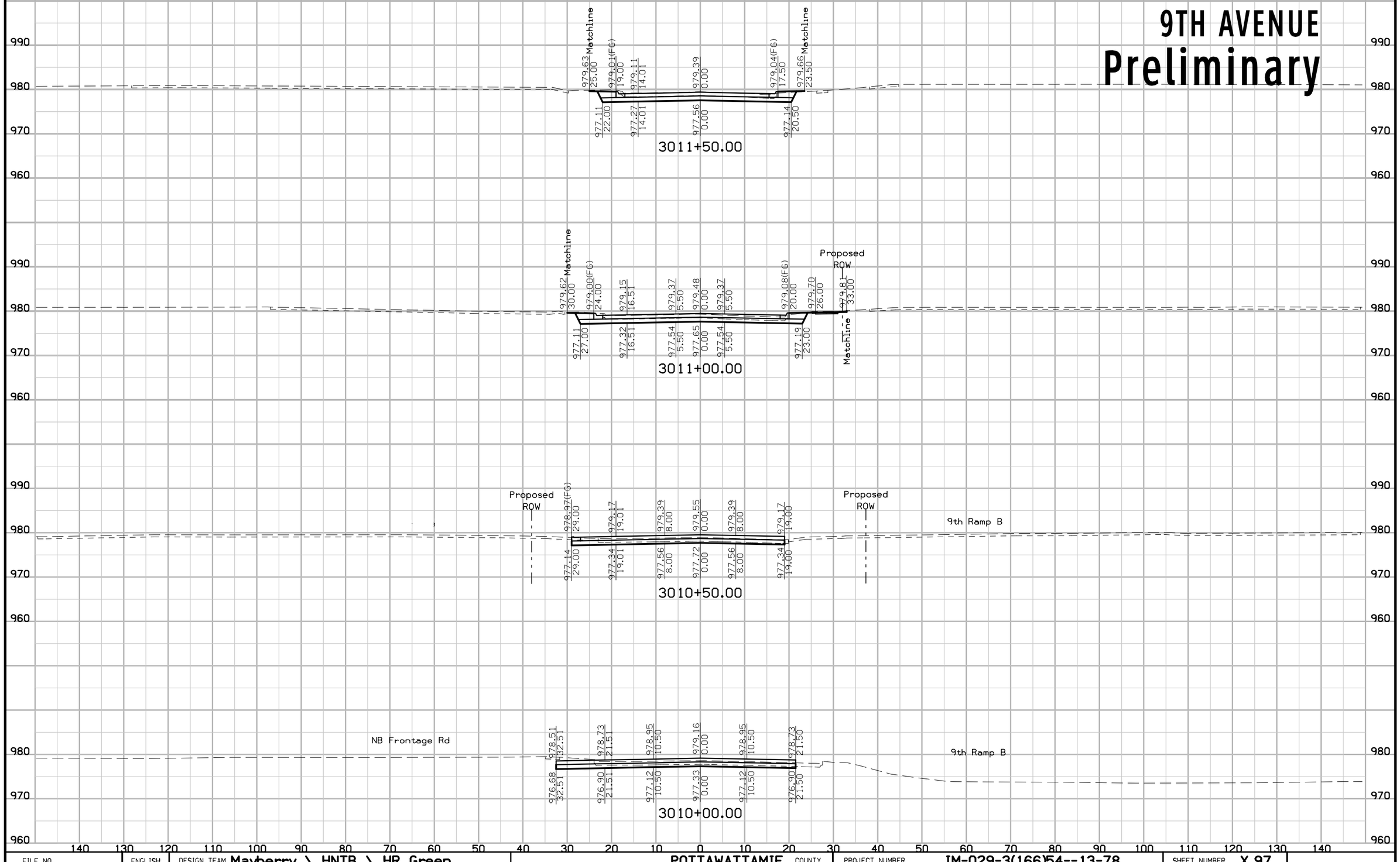
9TH AVENUE
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER IM-029-3(166)54--13-78	SHEET NUMBER X.96

2:08:04 PM 10/25/2017 ddudley pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\+HR_Green\Design-HR Green\Sheeting-HR Green\78029166-HRG-X92_9th.sht

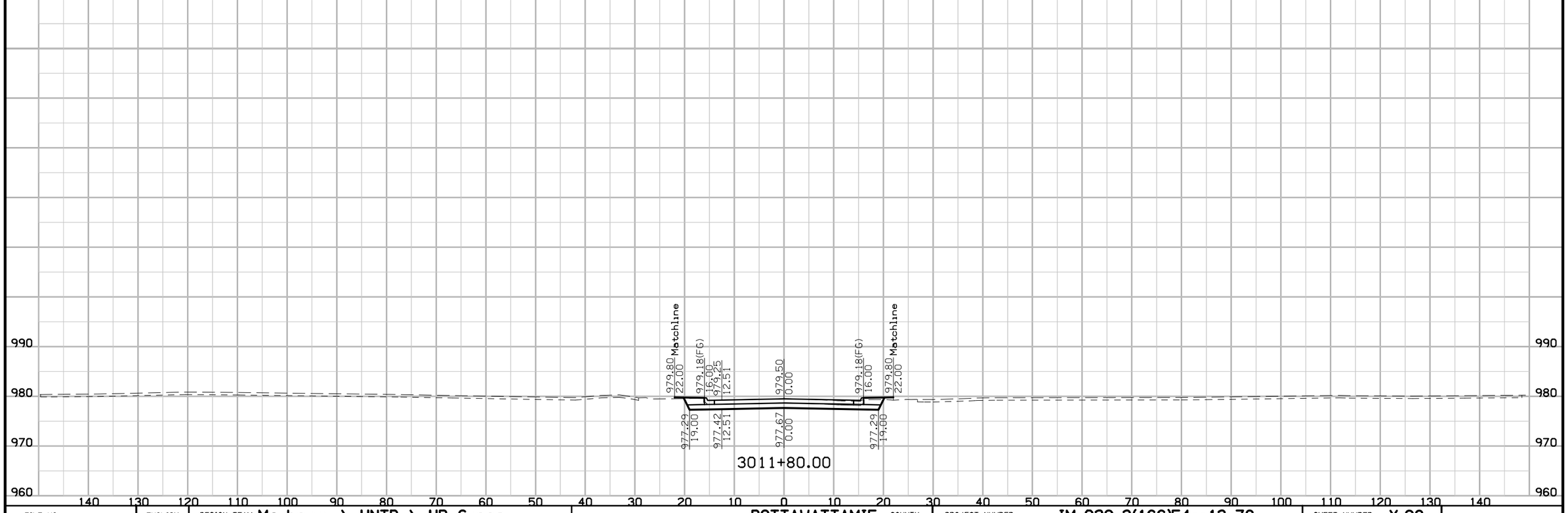
9TH AVENUE
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER IM-029-3(166)54--13-78	SHEET NUMBER X.97

2:08:05 PM 10/25/2017 ddudley pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\+HR_Green\Design-HR Green\Sheeting-HR Green\78029166-HRG-X92_9th.sht

9TH AVENUE
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER IM-029-3(166)54--13-78	SHEET NUMBER X.98

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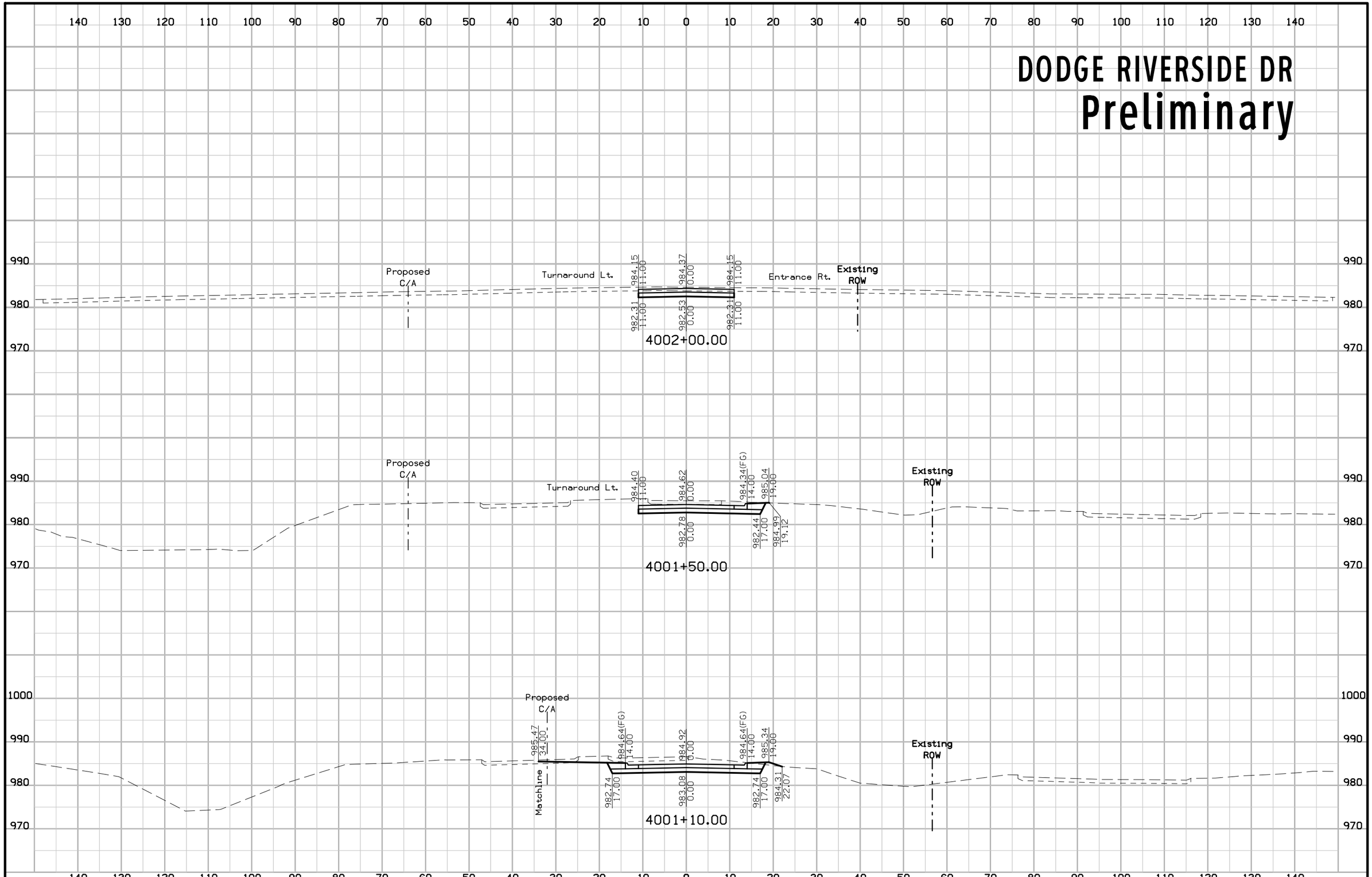
DODGE RIVERSIDE DR

Preliminary

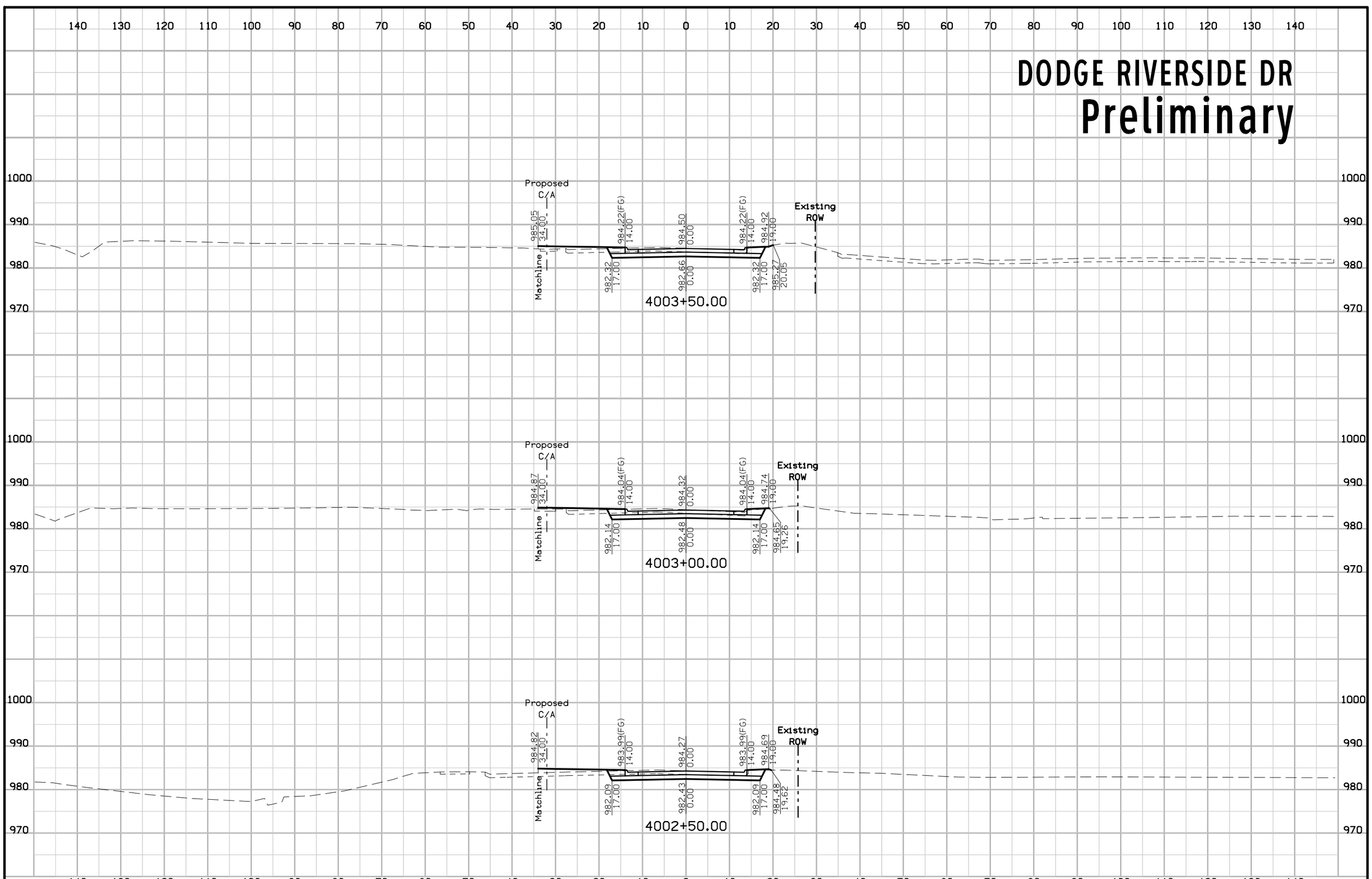


FILE NO.	ENGLISH	DESIGN TEAM Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER IM-029-3(166)54--13-78	SHEET NUMBER X.99

2:10:04 PM 10/25/2017 ddudley pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\+HR_Green\Design-HR Green\Sheeting-HR Green\78029166-HRG-X99_Dodge.sht

DODGE RIVERSIDE DR

Preliminary

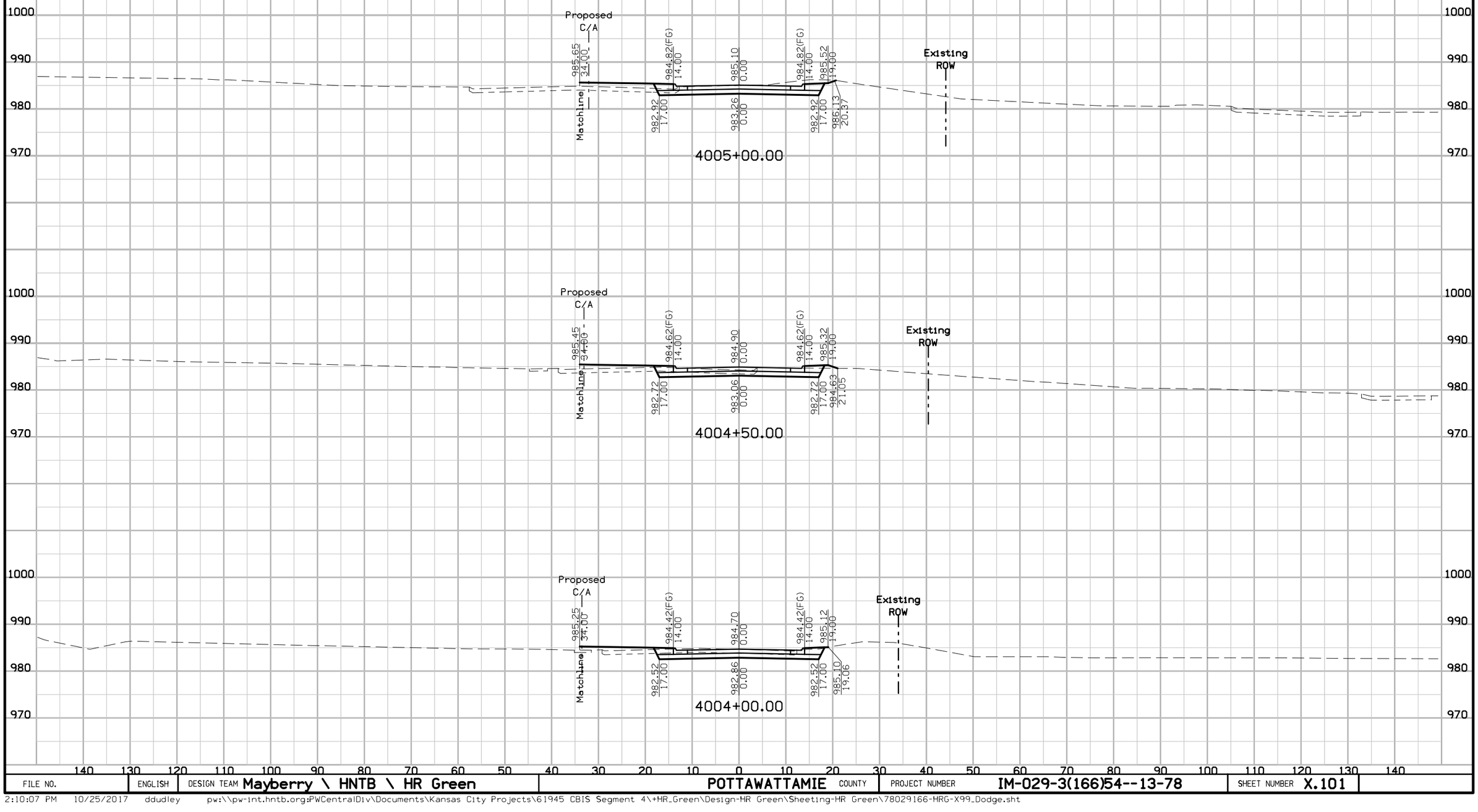


FILE NO.	ENGLISH	DESIGN TEAM Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER IM-029-3(166)54--13-78	SHEET NUMBER X.100

2:10:05 PM 10/25/2017 ddudley pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\+HR_Green\Design-HR Green\Sheeting-HR Green\78029166-HRG-X99_Dodge.sht

DODGE RIVERSIDE DR

Preliminary

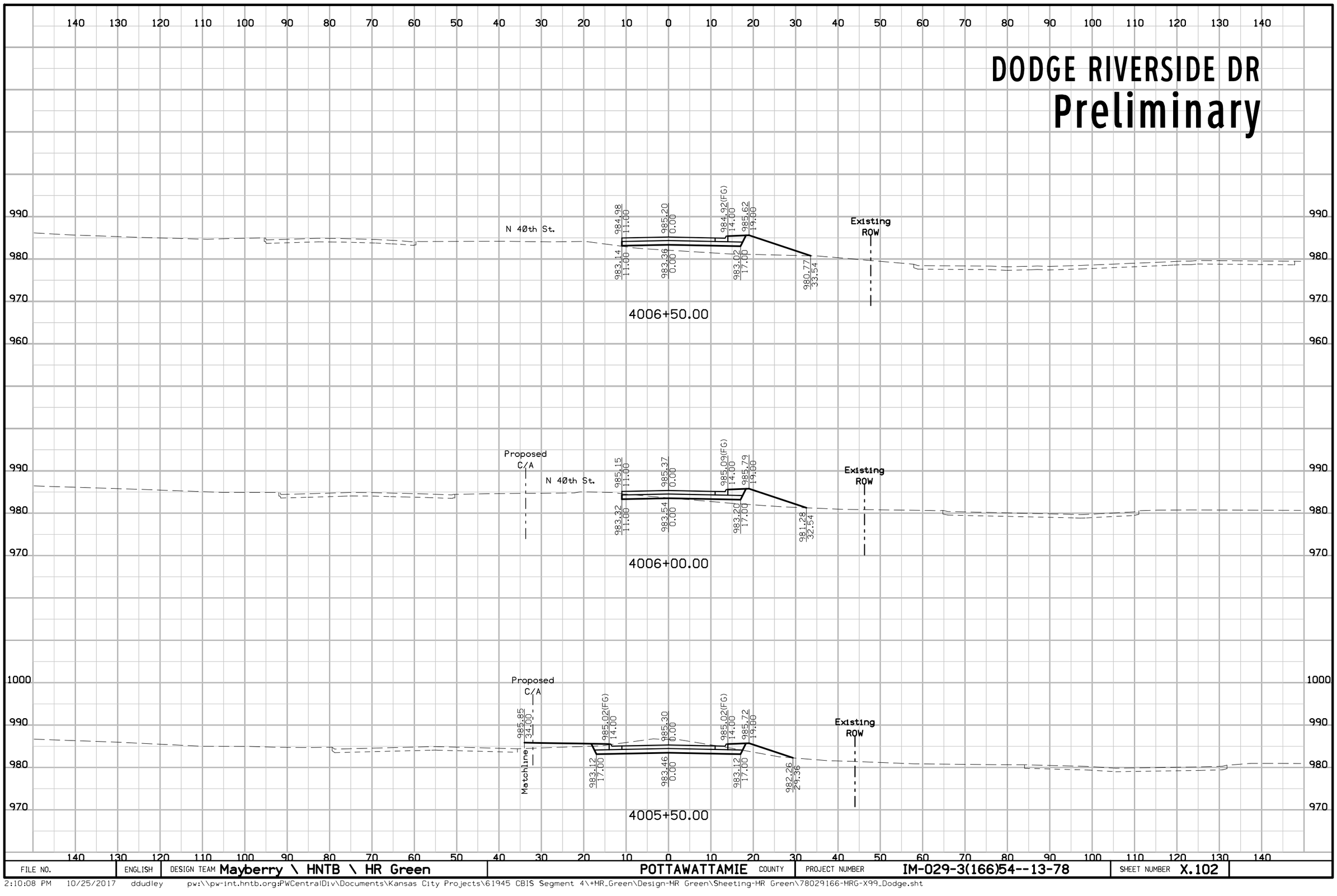


FILE NO.	ENGLISH	DESIGN TEAM Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER IM-029-3(166)54--13-78	SHEET NUMBER X.101

2:10:07 PM 10/25/2017 ddudley pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\+HR_Green\Design-HR Green\Sheeting-HR Green\78029166-HRG-X99_Dodge.sht

DODGE RIVERSIDE DR

Preliminary

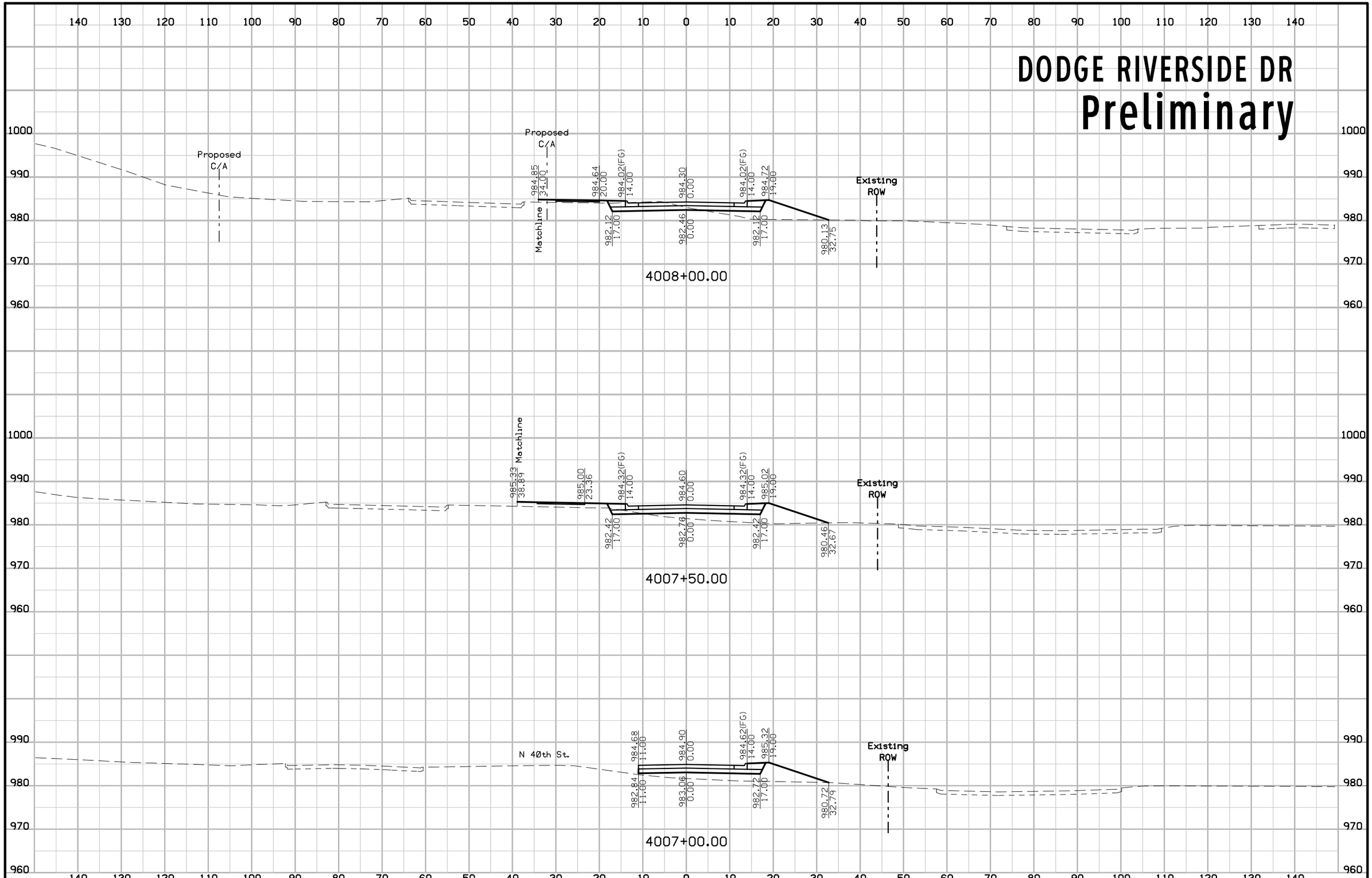


FILE NO.	ENGLISH	DESIGN TEAM Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER IM-029-3(166)54--13-78	SHEET NUMBER X.102

2:10:08 PM 10/25/2017 ddudley pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\+HR_Green\Design-HR Green\Sheeting-HR Green\78029166-HRG-X99_Dodge.sht

DODGE RIVERSIDE DR

Preliminary

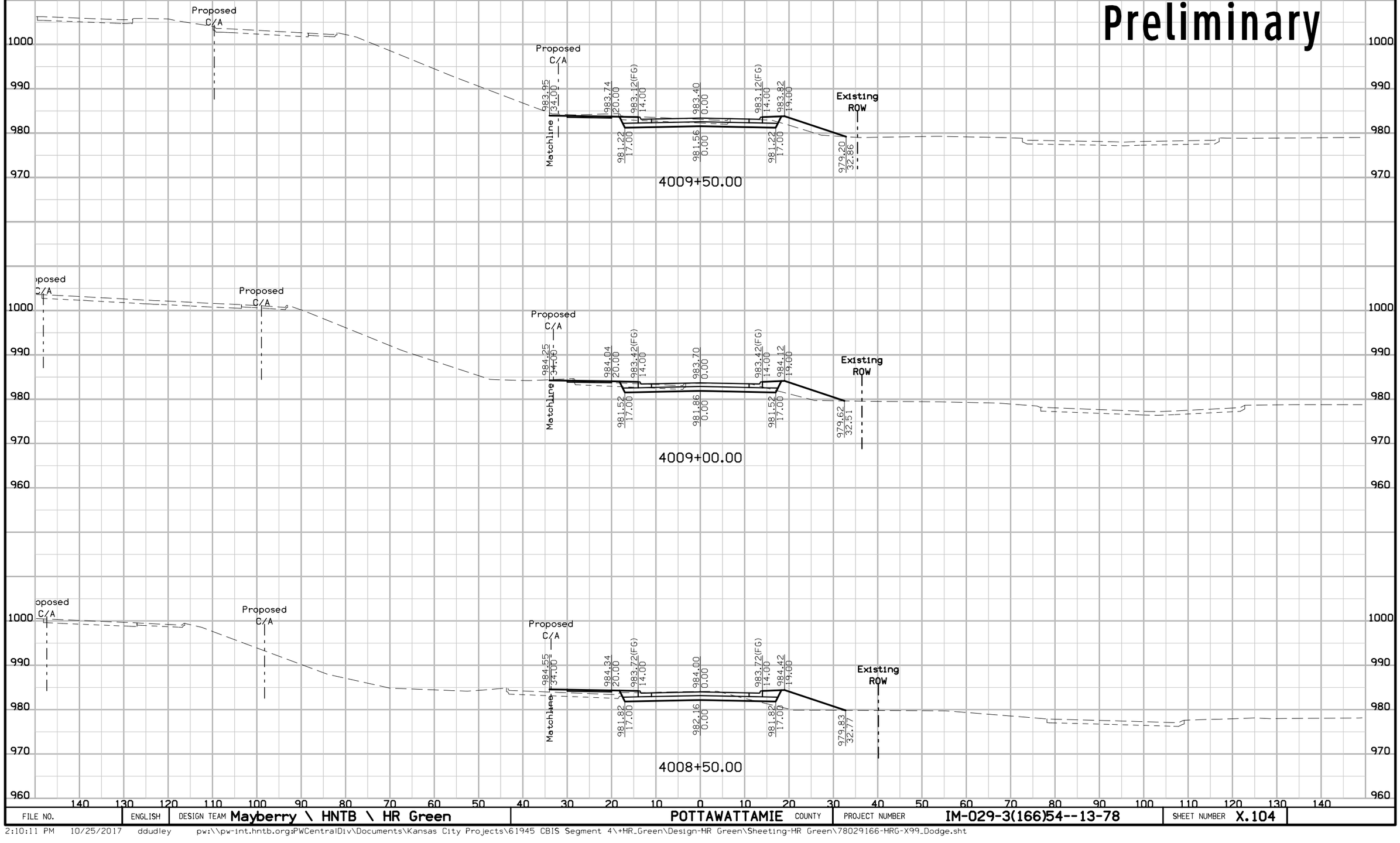


FILE NO.	ENGLISH	DESIGN TEAM Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER IM-029-3(166)54--13-78	SHEET NUMBER X.103

2:10:10 PM 10/25/2017 ddudley pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\+HR_Green\Design-HR Green\Sheeting-HR Green\78029166-HRG-X99_Dodge.sht

DODGE RIVERSIDE DR

Preliminary

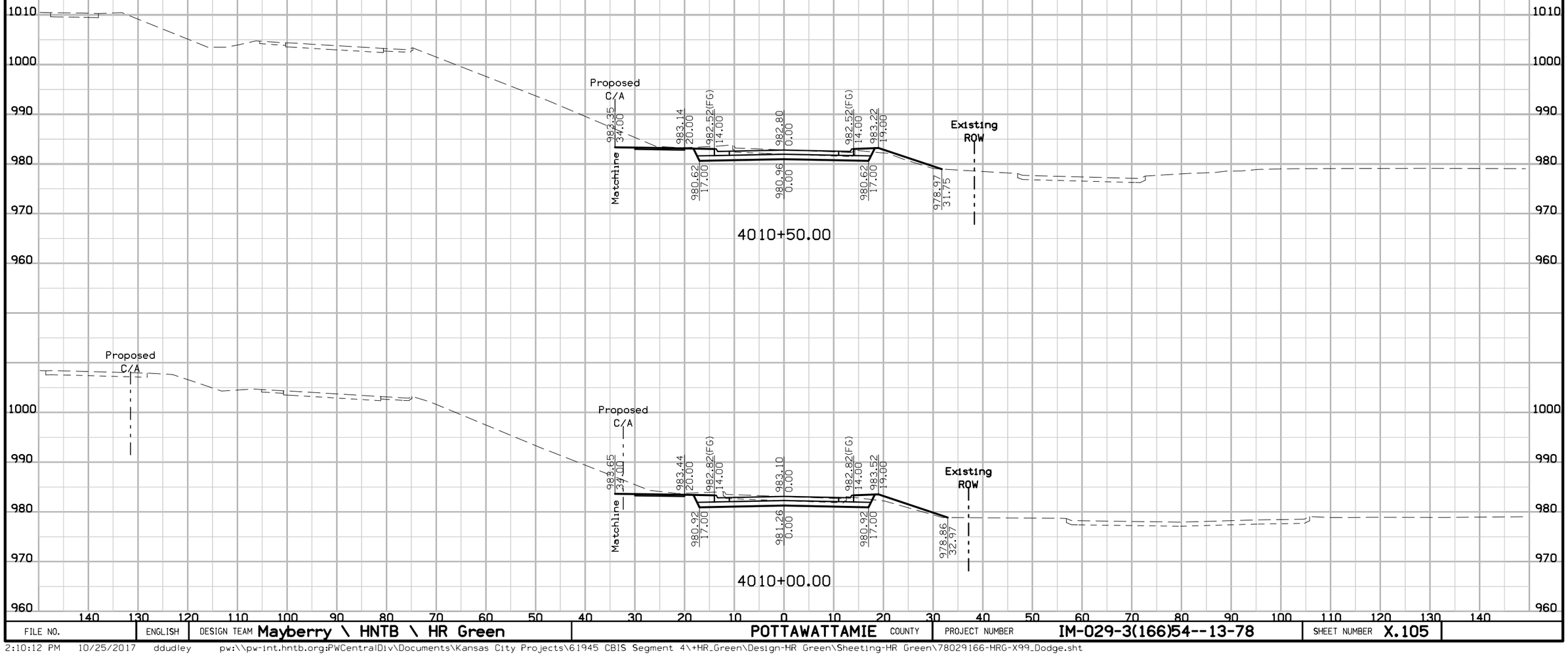


FILE NO.	ENGLISH	DESIGN TEAM Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER IM-029-3(166)54--13-78	SHEET NUMBER X.104

2:10:11 PM 10/25/2017 ddudley pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\+HR_Green\Design-HR Green\Sheeting-HR Green\78029166-HRG-X99_Dodge.sht

DODGE RIVERSIDE DR

Preliminary

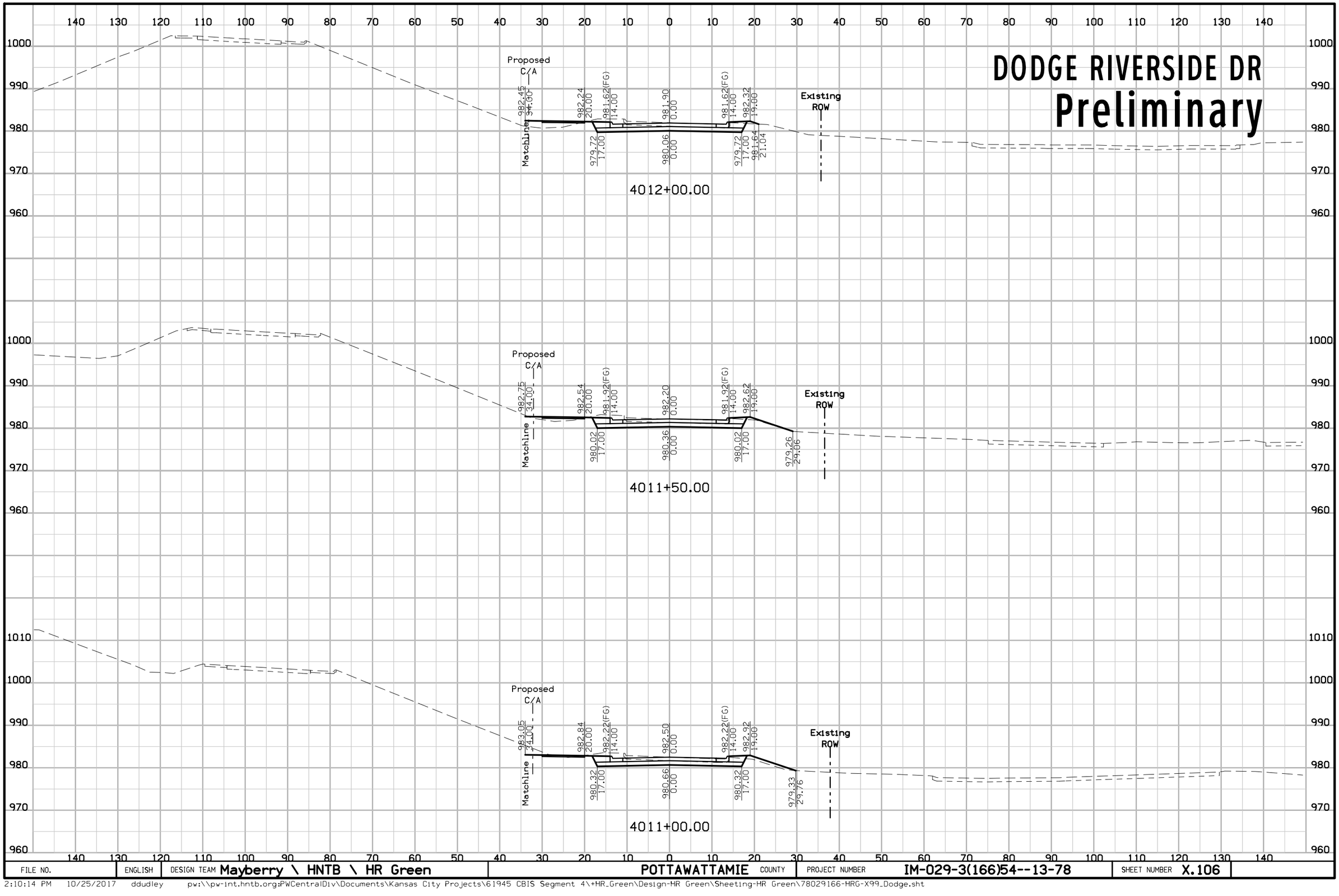


FILE NO.	ENGLISH	DESIGN TEAM Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER IM-029-3(166)54--13-78	SHEET NUMBER X.105

2:10:12 PM 10/25/2017 ddudley pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\+HR_Green\Design-HR Green\Sheeting-HR Green\78029166-HRG-X99_Dodge.sht

DODGE RIVERSIDE DR

Preliminary

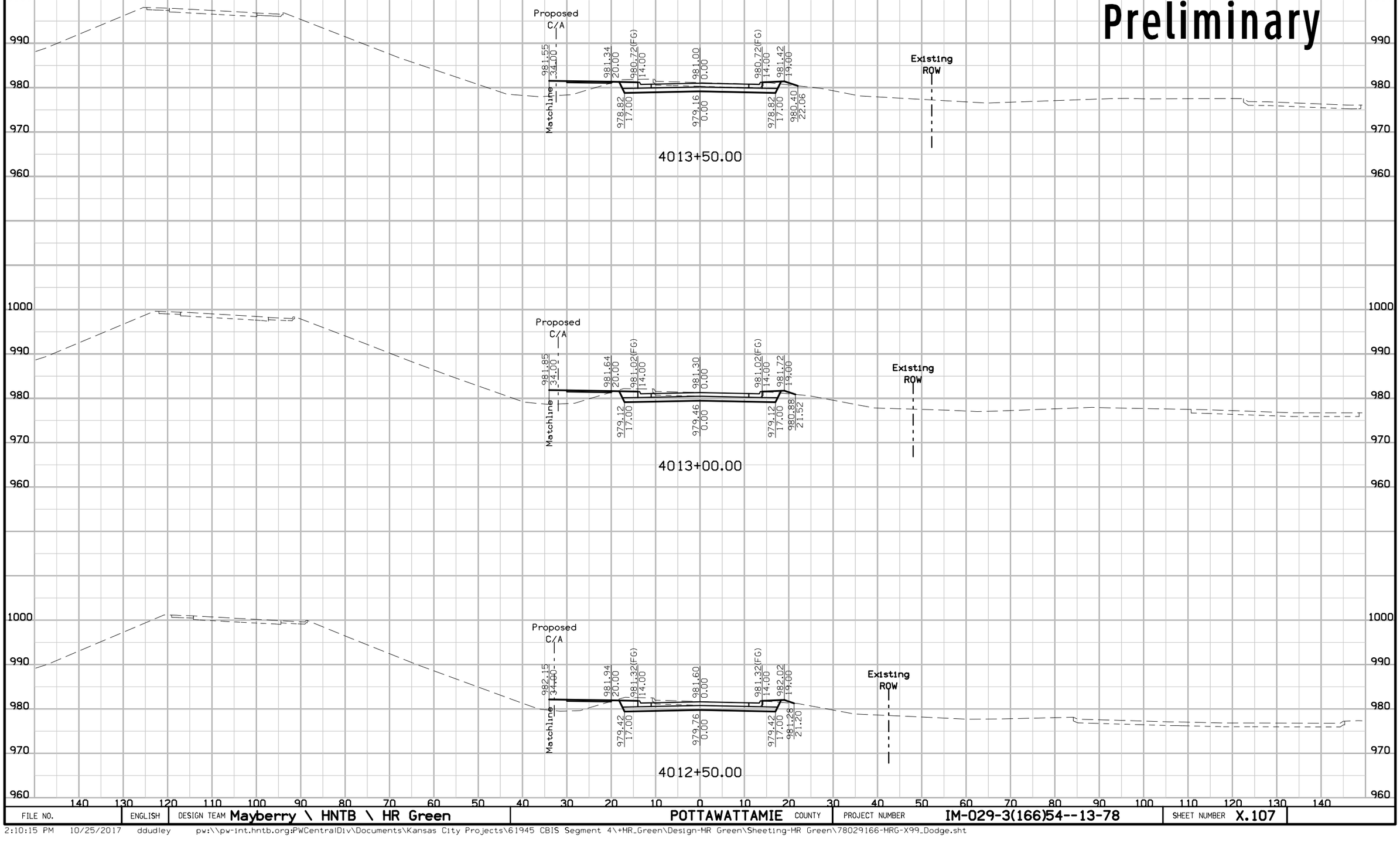


FILE NO.	ENGLISH	DESIGN TEAM Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER IM-029-3(166)54--13-78	SHEET NUMBER X.106

2:10:14 PM 10/25/2017 ddudley pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\+HR_Green\Design-HR Green\Sheeting-HR Green\78029166-HRG-X99_Dodge.sht

DODGE RIVERSIDE DR

Preliminary

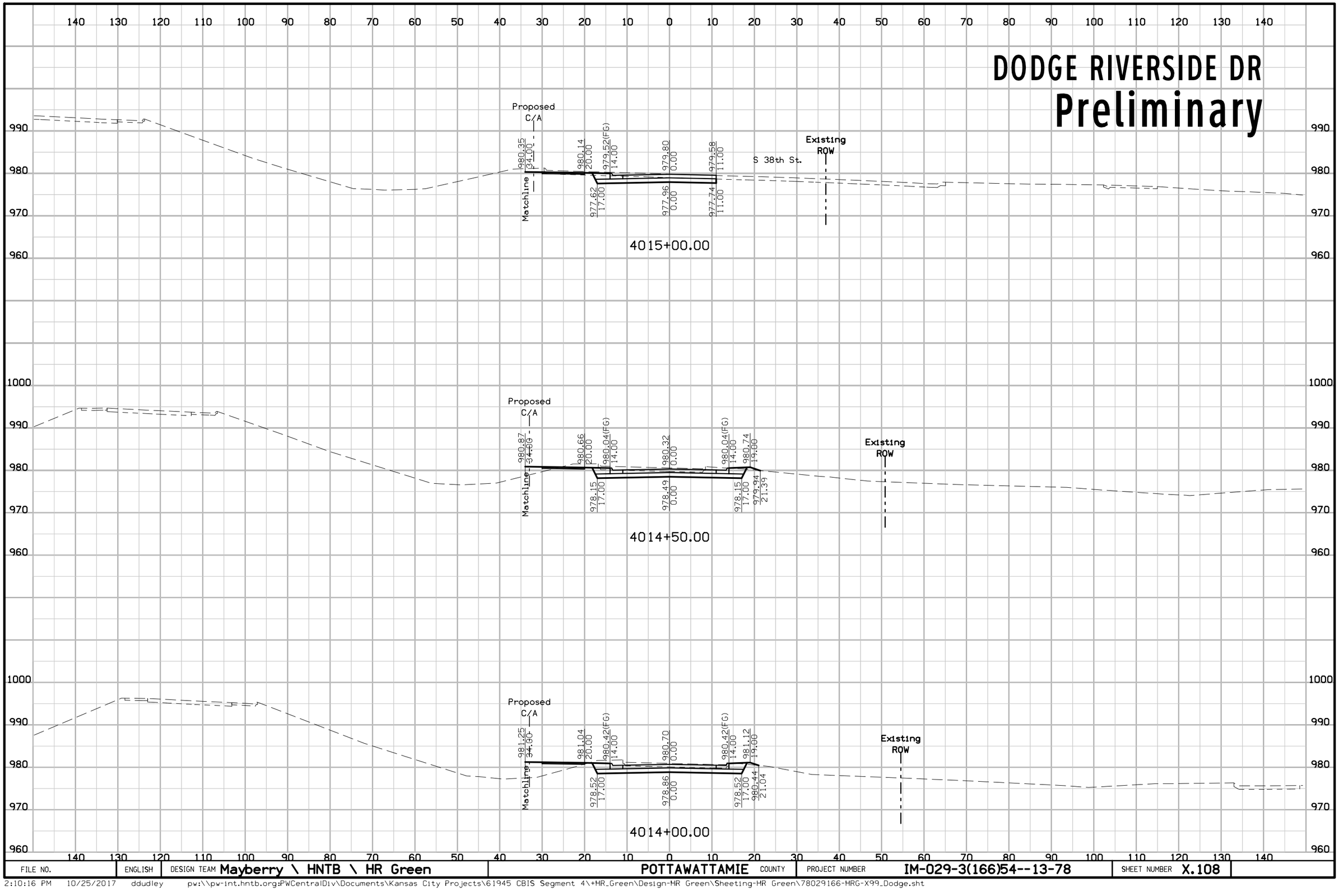


FILE NO.	ENGLISH	DESIGN TEAM Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER IM-029-3(166)54--13-78	SHEET NUMBER X.107

2:10:15 PM 10/25/2017 ddudley pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\+HR_Green\Design-HR Green\Sheeting-HR Green\78029166-HRG-X99_Dodge.sht

DODGE RIVERSIDE DR

Preliminary

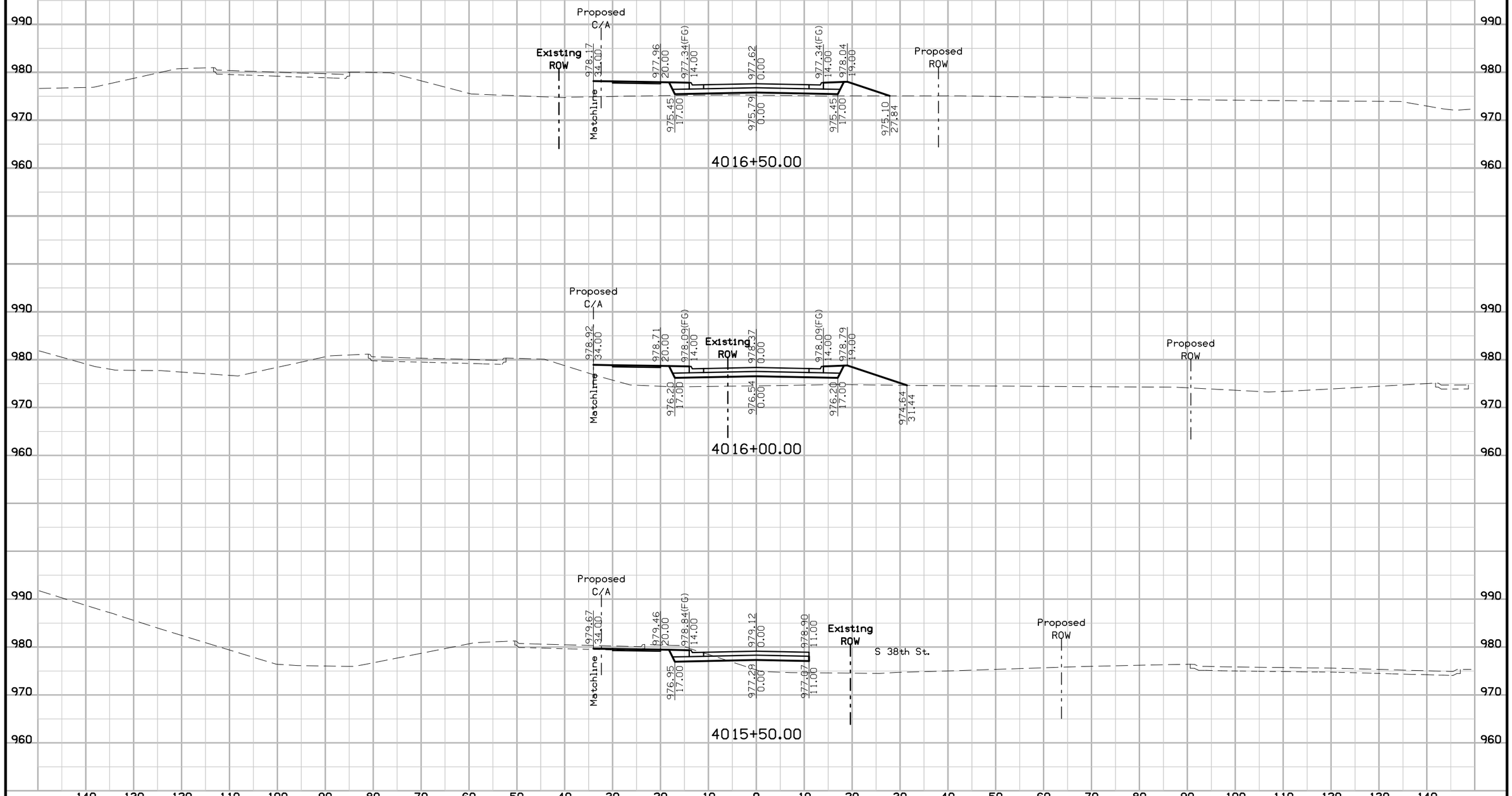


FILE NO.	ENGLISH	DESIGN TEAM Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER IM-029-3(166)54--13-78	SHEET NUMBER X.108

2:10:16 PM 10/25/2017 ddudley pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\+HR_Green\Design-HR Green\Sheeting-HR Green\78029166-HRG-X99_Dodge.sht

DODGE RIVERSIDE DR

Preliminary

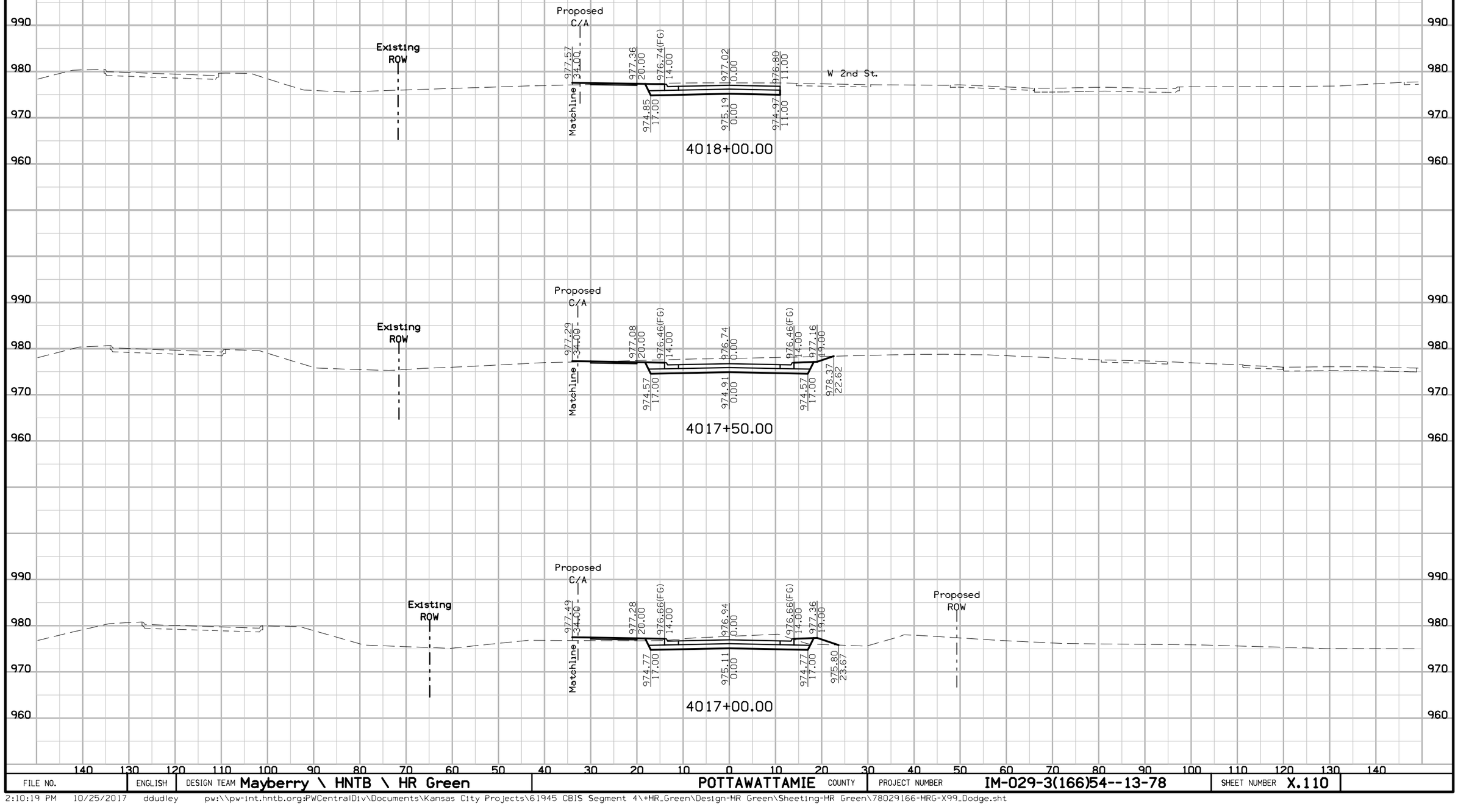


FILE NO.	ENGLISH	DESIGN TEAM Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER IM-029-3(166)54--13-78	SHEET NUMBER X.109

2:10:18 PM 10/25/2017 ddudley pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\+HR_Green\Design-HR Green\Sheeting-HR Green\78029166-HRG-X99_Dodge.sht

DODGE RIVERSIDE DR

Preliminary

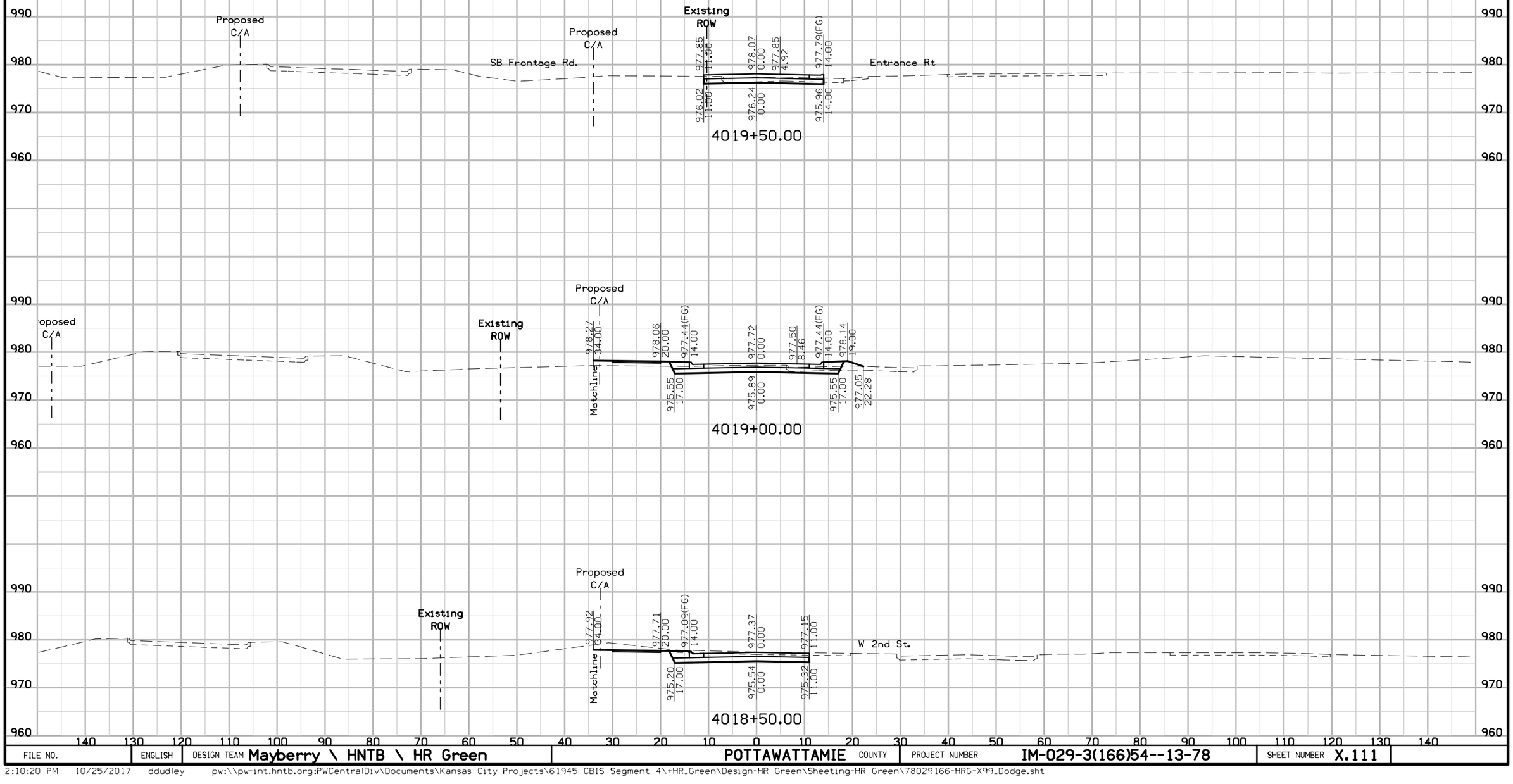


FILE NO.	ENGLISH	DESIGN TEAM Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER IM-029-3(166)54--13-78	SHEET NUMBER X.110

2:10:19 PM 10/25/2017 ddudley pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\+HR_Green\Design-HR Green\Sheeting-HR Green\78029166-HRG-X99_Dodge.sht

DODGE RIVERSIDE DR

Preliminary

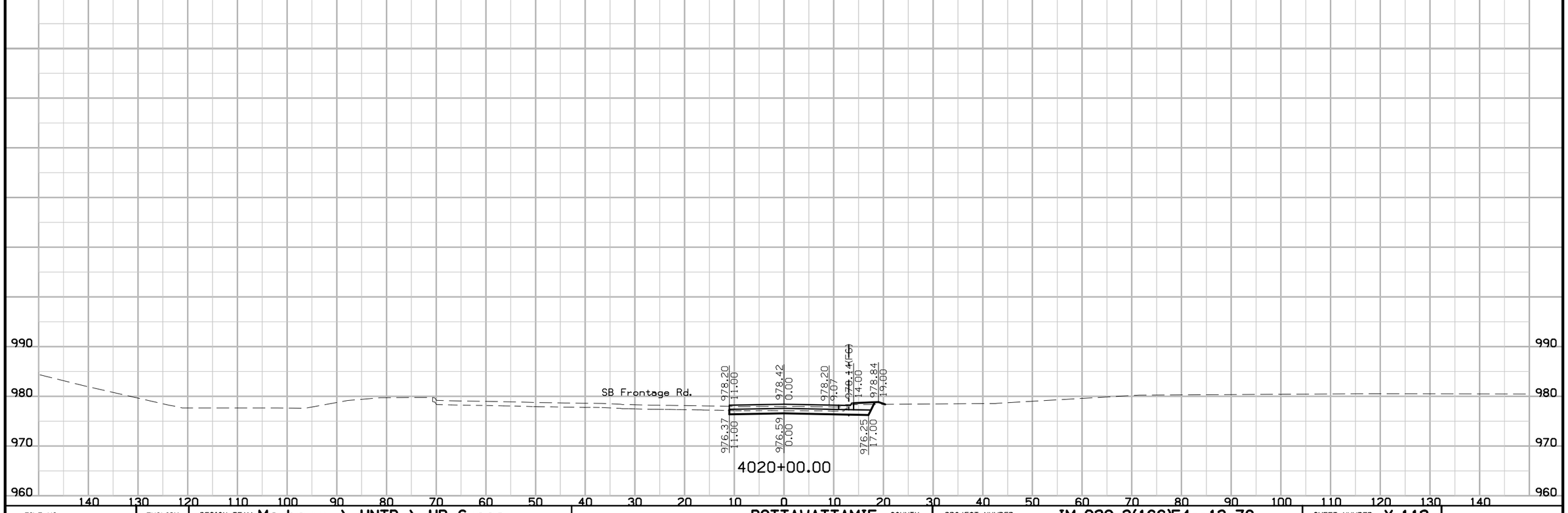


FILE NO.	ENGLISH	DESIGN TEAM Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER IM-029-3(166)54--13-78	SHEET NUMBER X.111

2:10:20 PM 10/25/2017 ddudley pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\+HR_Green\Design-HR Green\Sheeting-HR Green\78029166-HRG-X99_Dodge.sht

DODGE RIVERSIDE DR

Preliminary



FILE NO.	ENGLISH	DESIGN TEAM Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER IM-029-3(166)54--13-78	SHEET NUMBER X.112

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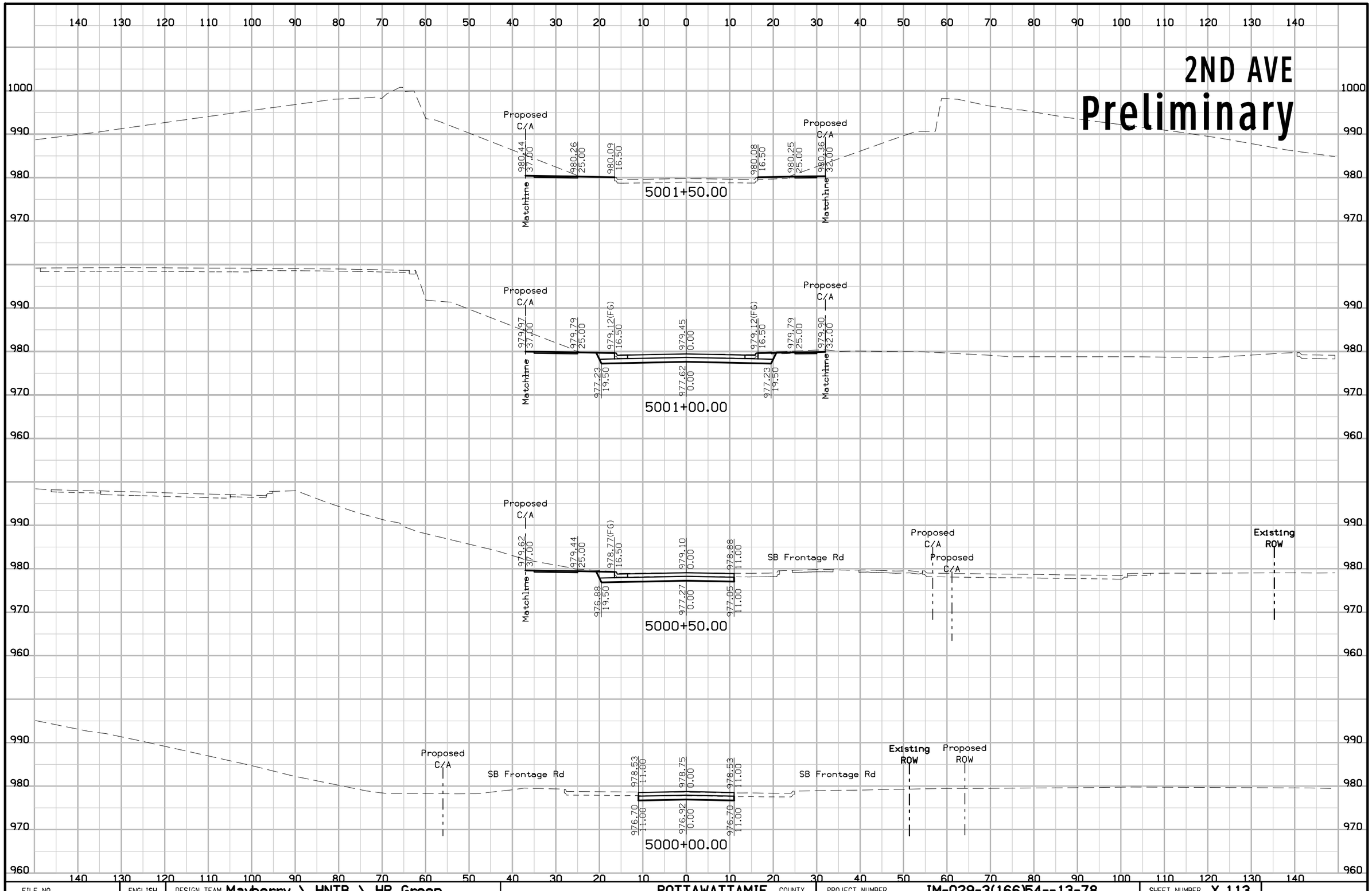
2ND AVE
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER IM-029-3(166)54--13-78	SHEET NUMBER X.113

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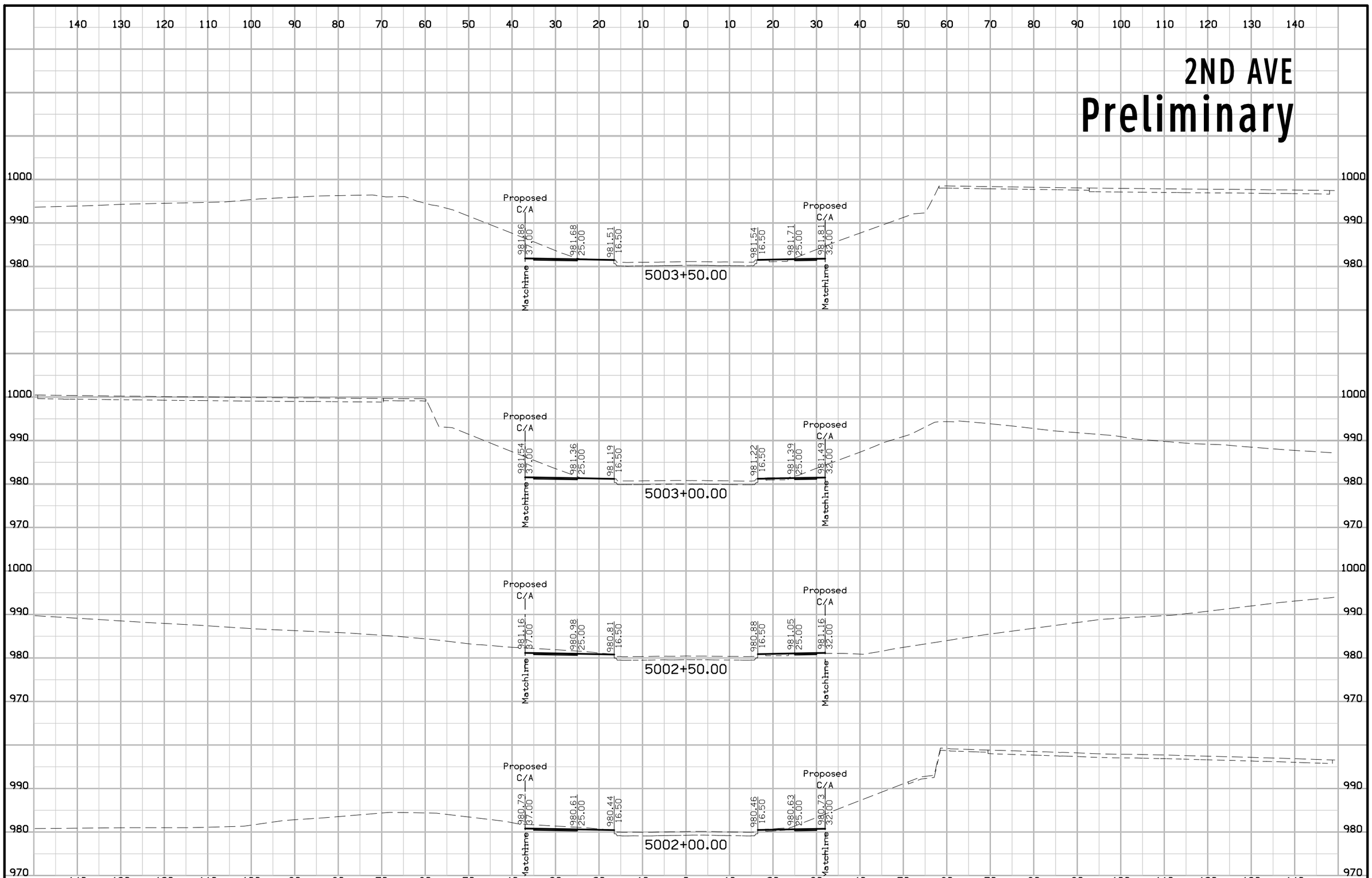
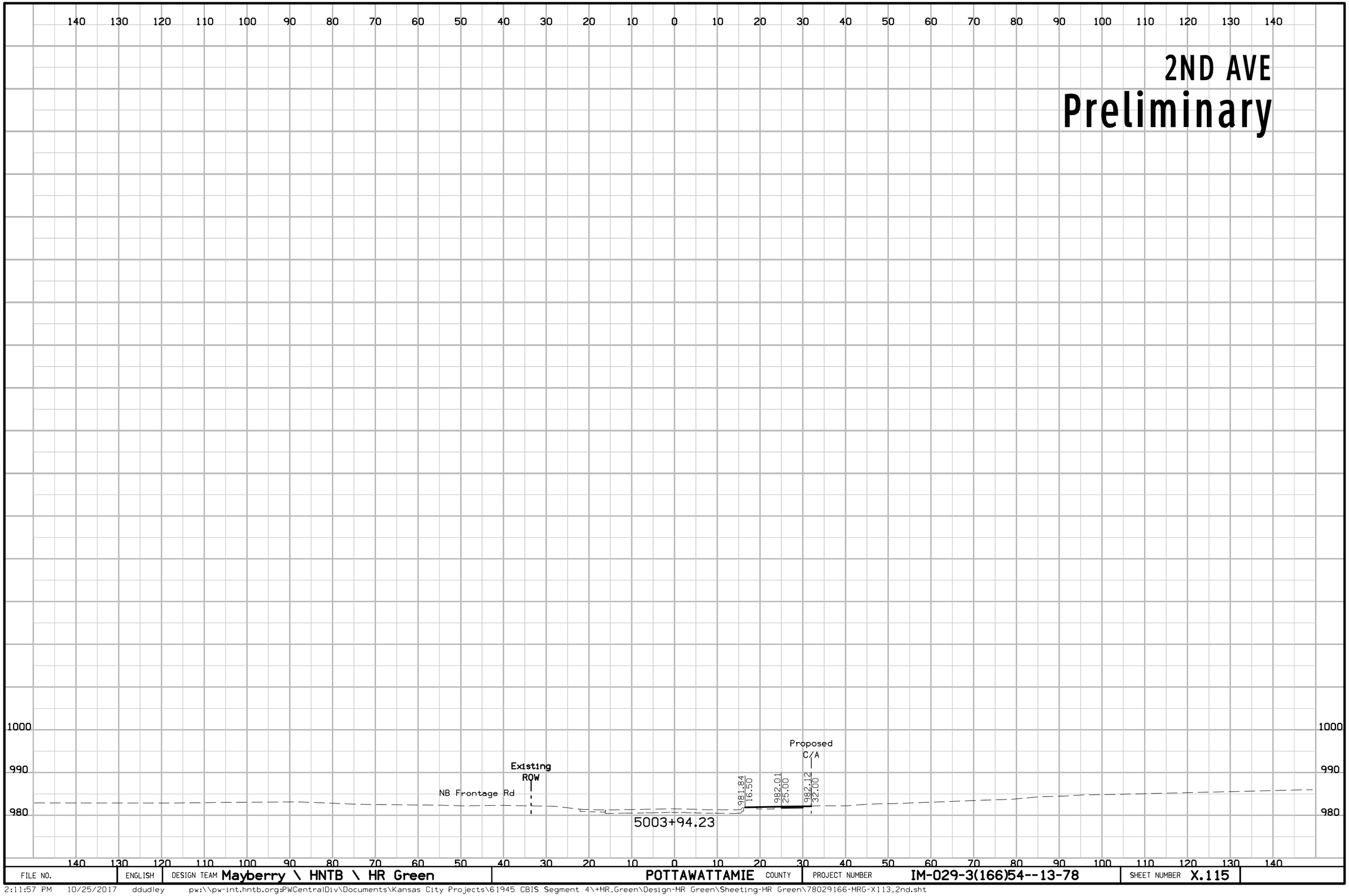
2ND AVE
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER IM-029-3(166)54--13-78	SHEET NUMBER X.114

2:11:56 PM 10/25/2017 ddudley pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\+HR_Green\Design-HR Green\Sheeting-HR Green\78029166-HRG-X113_2nd.sht

2ND AVE
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER IM-029-3(166)54--13-78	SHEET NUMBER X.115

2:11:57 PM 10/25/2017 ddudley pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\+HR_Green\Design-HR Green\Sheeting-HR Green\78029166-HRG-X113_2nd.sht

AVENUE G

Preliminary

140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140

980

Ave G Ramp A

SB Frontage Rd

Proposed C/A

6003+00.00

980

Ave G Ramp A

SB Frontage Rd

6002+50.00

990

980

Ave G Ramp A

980.11 16.50

980.28 25.00

980.46 37.00 Matchline

6002+00.00

990

980

970

980.41 29.00 Matchline

979.41(FG) 16.50

979.46 14.00

977.52 19.50

977.63 14.00

979.58 16.50

979.75 25.00

979.93 37.00 Matchline

6001+50.00

990

980

970

979.93 29.00 Matchline

978.93(FG) 16.50

978.98 14.00

977.03 19.50

977.14 14.00

Benson St

6001+00.00

990

980

970

979.00 29.00 Matchline

978.00(FG) 16.50

978.05 14.00

976.10 19.50

976.21 14.00

Existing ROW

6000+50.00

140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140

FILE NO.	ENGLISH	DESIGN TEAM Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER IM-029-3(166)54--13-78	SHEET NUMBER X.116

2:14:34 PM 10/25/2017 ddudley pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\+HR_Green\Design-HR Green\Sheeting-HR Green\78029166-HRG-X116_AveG.sht

AVENUE G
Preliminary

140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140

990
980

Proposed C/A
980.40 29.00 Matchline
979.90 16.50
979.88 16.50
980.05 25.00
Proposed C/A
980.23 37.00 Matchline

6005+50.00

990
980

Proposed C/A
980.53 29.00 Matchline
980.03 16.50
979.95 16.50
980.12 25.00
Proposed C/A
980.30 37.00 Matchline

6005+00.00

1000
990
980

Proposed C/A
980.64 29.00 Matchline
980.14 16.50
980.18 16.50
980.35 25.00
Proposed C/A
980.53 37.00 Matchline

6004+50.00

990
980

Proposed C/A
980.75 29.00 Matchline
980.25 16.50
980.40 16.50
980.57 25.00
Proposed C/A
980.75 37.00 Matchline

6004+00.00

1000
990
980

Ave G Ramp A

Proposed C/A
980.56 16.50
980.73 25.00
980.91 37.00 Matchline

6003+50.00

140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140

FILE NO.	ENGLISH	DESIGN TEAM Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER IM-029-3(166)54--13-78	SHEET NUMBER X.117

2:14:35 PM 10/25/2017 ddudley pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\+HR_Green\Design-HR Green\Sheeting-HR Green\78029166-HRG-X116_AveG.sht

AVENUE G
Preliminary

140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140

990
980
970

Proposed C/A

980.08 Matchline 29.00
979.08(FG) 16.50
979.18 14.00
977.62 19.50
977.84 14.00

6008+45.82

Ave G Ramp D

6008+00.00

Ave G Ramp D

6007+50.00

Ave G Ramp D

NB Frontage Rd

Existing ROW

6007+00.00

Proposed C/A

980.15 29.00
979.15(FG) 16.50
979.20 14.00
977.26 19.50
977.37 14.00
Matchline

NB Frontage Rd

Proposed C/A

Proposed C/A

6006+50.00

Proposed C/A

980.41 29.00
979.91 16.50
979.85 16.50
980.02 25.00
980.20 37.00
Matchline

Proposed C/A

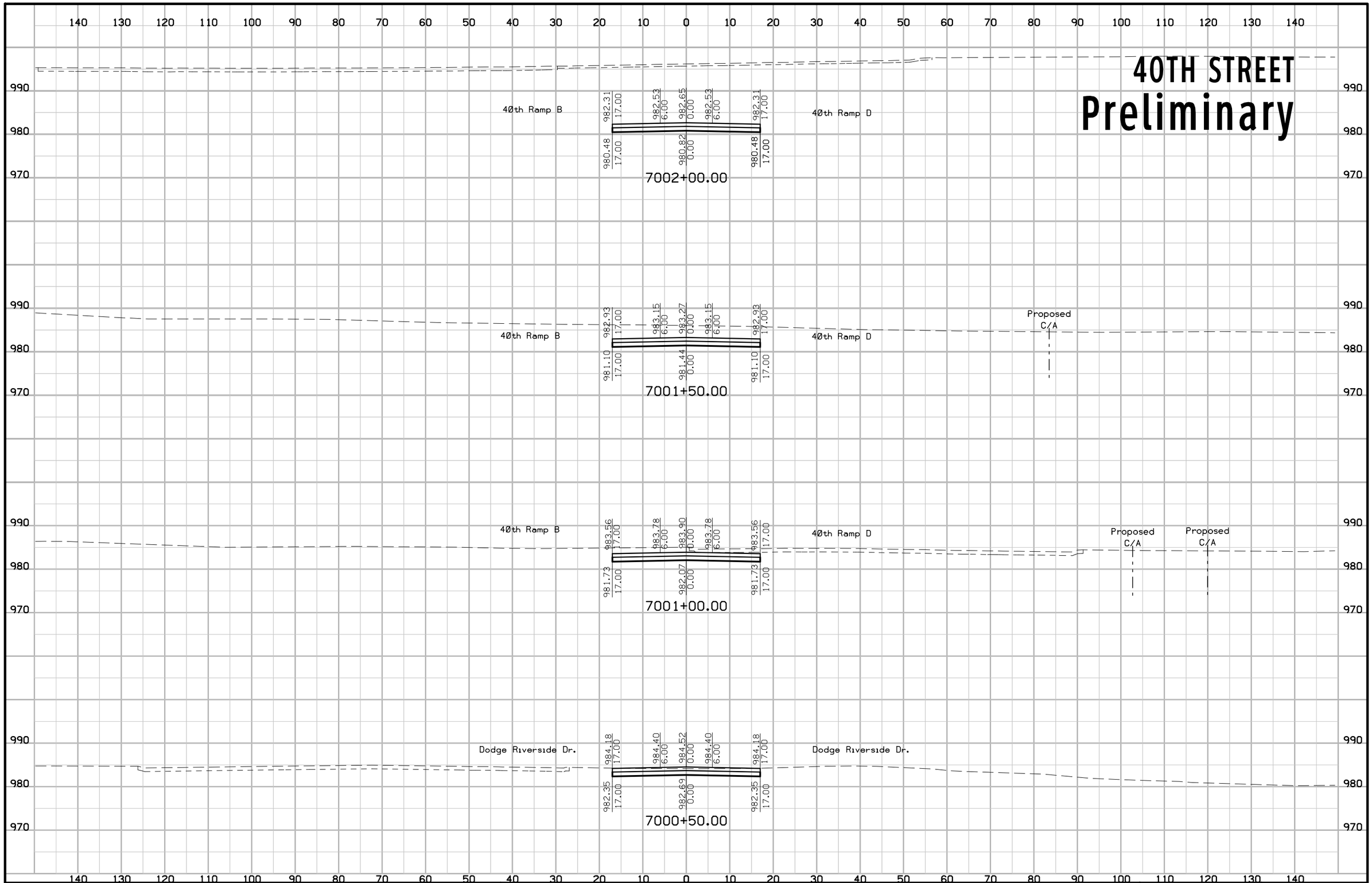
6006+00.00

140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140

FILE NO.	ENGLISH	DESIGN TEAM Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER IM-029-3(166)54--13-78	SHEET NUMBER X.118

2:14:37 PM 10/25/2017 ddudley pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\+HR_Green\Design-HR Green\Sheeting-HR Green\78029166-HRG-X116_AveG.sht

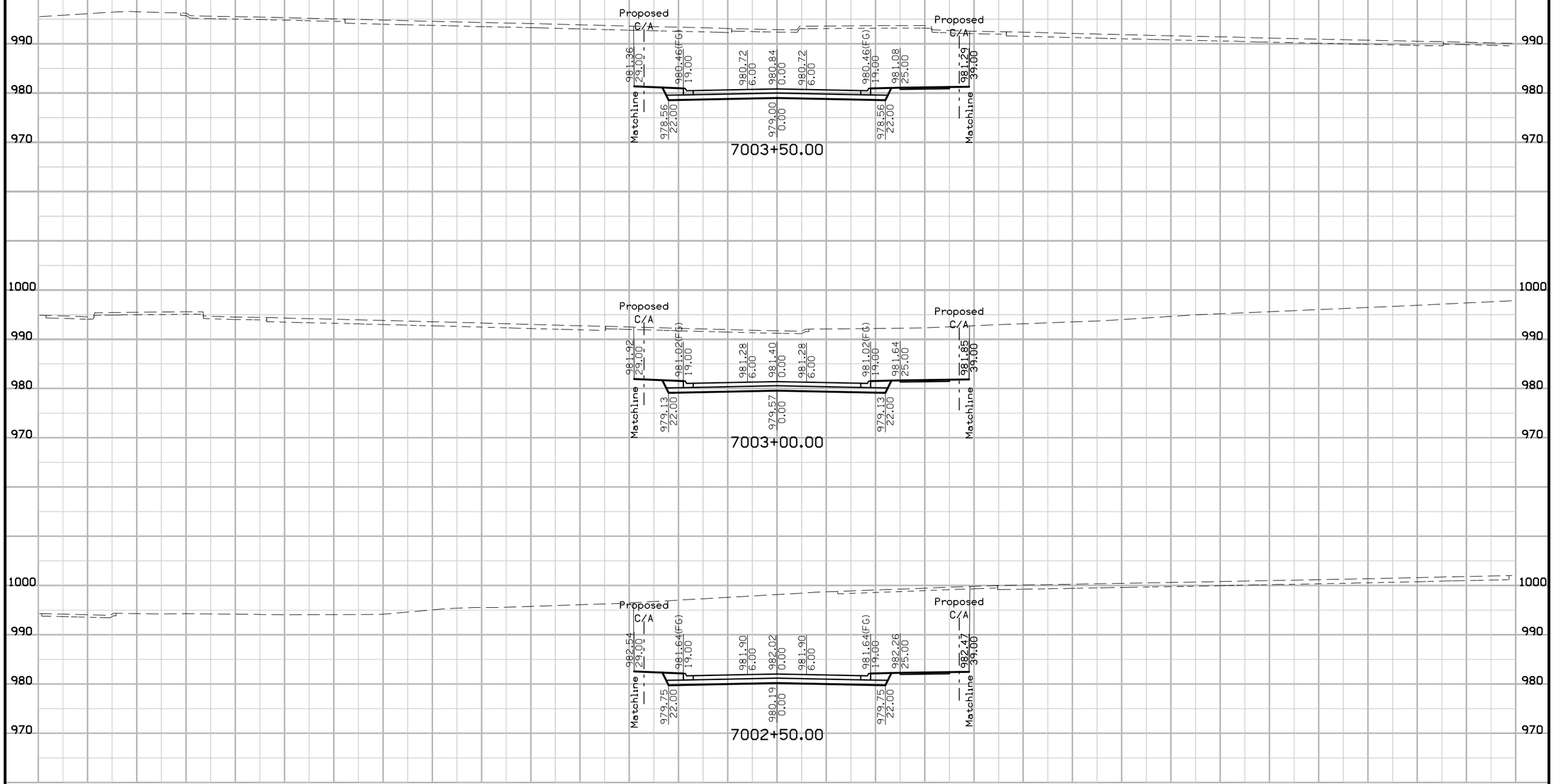
40TH STREET
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER IM-029-3(166)54--13-78	SHEET NUMBER X.119

2:16:00 PM 10/25/2017 ddudley pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\+HR_Green\Design-HR Green\Sheeting-HR Green\78029166-HRG-X119_40th.sht

40TH STREET
Preliminary

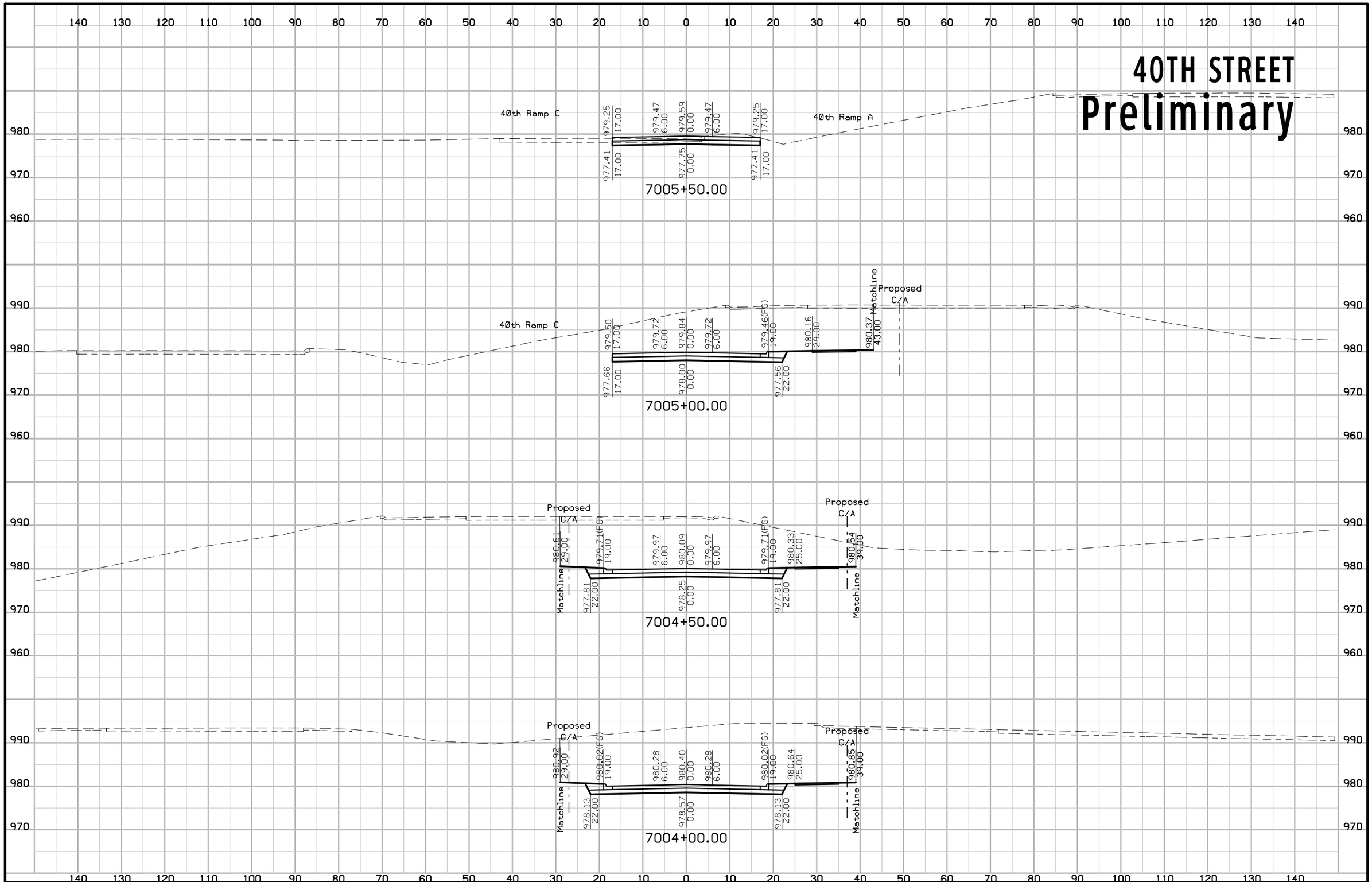


FILE NO.	ENGLISH	DESIGN TEAM Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER IM-029-3(166)54--13-78	SHEET NUMBER X.120

2:16:02 PM 10/25/2017 ddudley pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\+HR_Green\Design-HR Green\Sheeting-HR Green\78029166-HRG-X119_40th.sht

40TH STREET

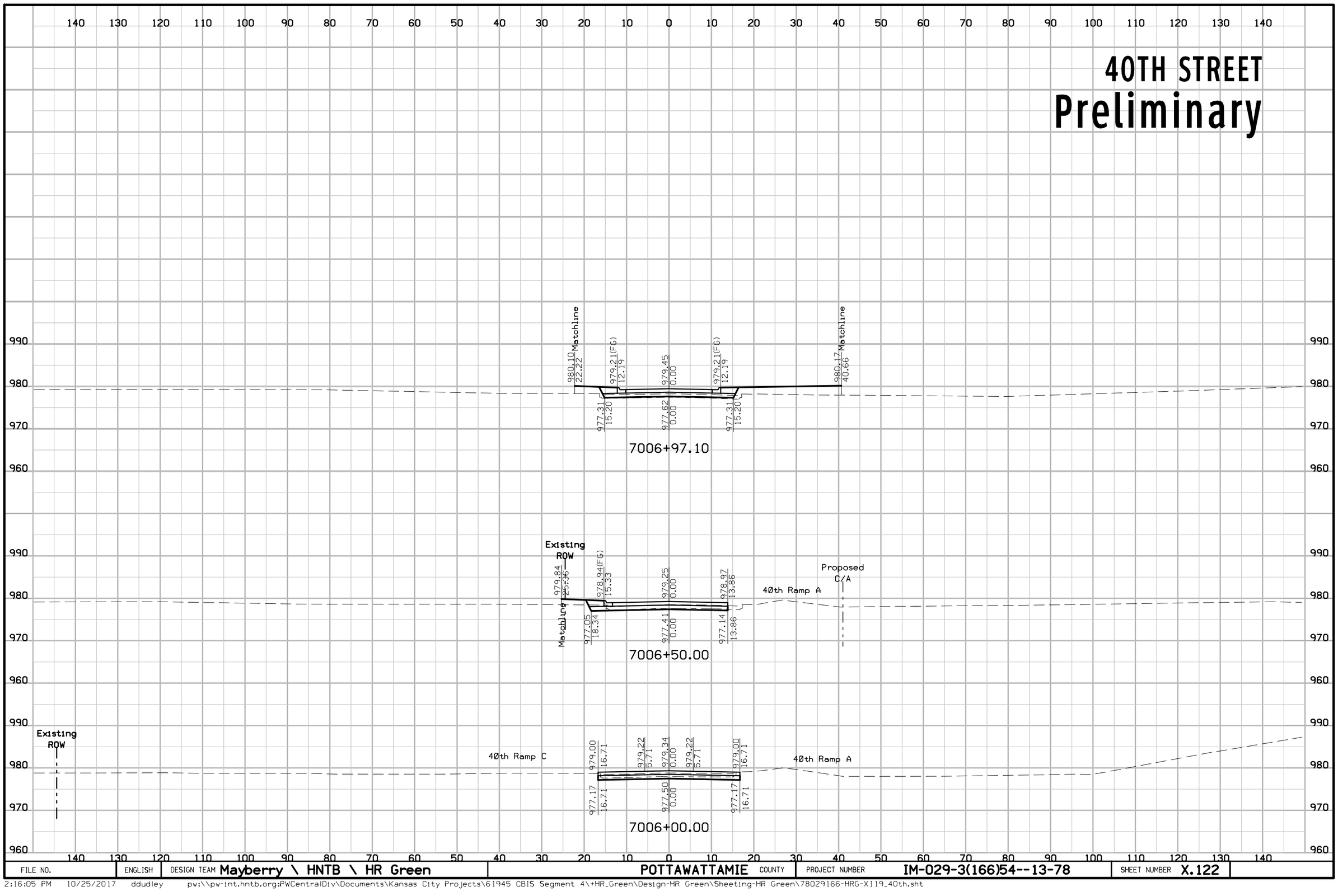
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER IM-029-3(166)54--13-78	SHEET NUMBER X.121

2:16:03 PM 10/25/2017 ddudley pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\+HR_Green\Design-HR Green\Sheeting-HR Green\78029166-HRG-X119_40th.sht

40TH STREET
Preliminary

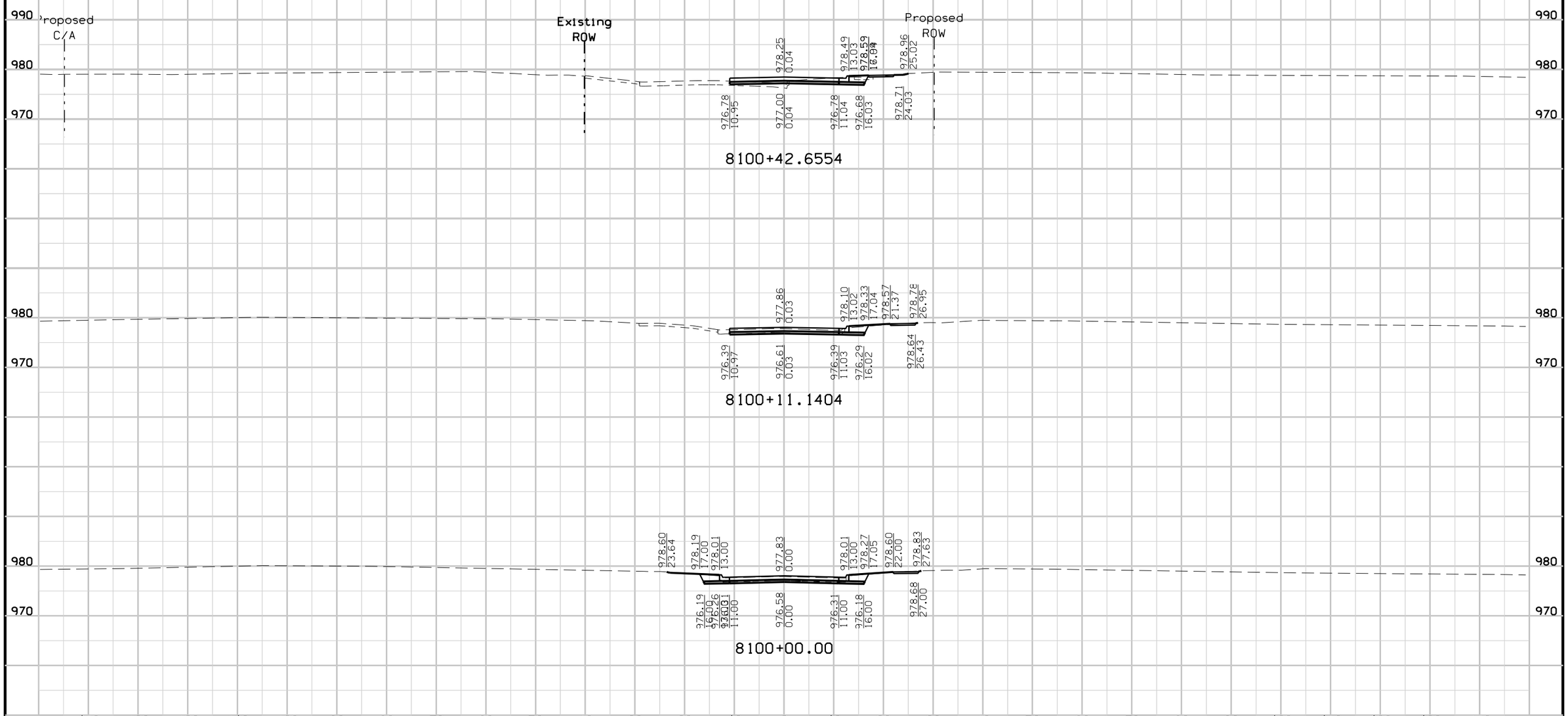


FILE NO.	ENGLISH	DESIGN TEAM Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER IM-029-3(166)54--13-78	SHEET NUMBER X.122

2:16:05 PM 10/25/2017 ddudley pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\+HR_Green\Design-HR Green\Sheeting-HR Green\78029166-HRG-X119_40th.sht

8TH TO 6TH CONN.

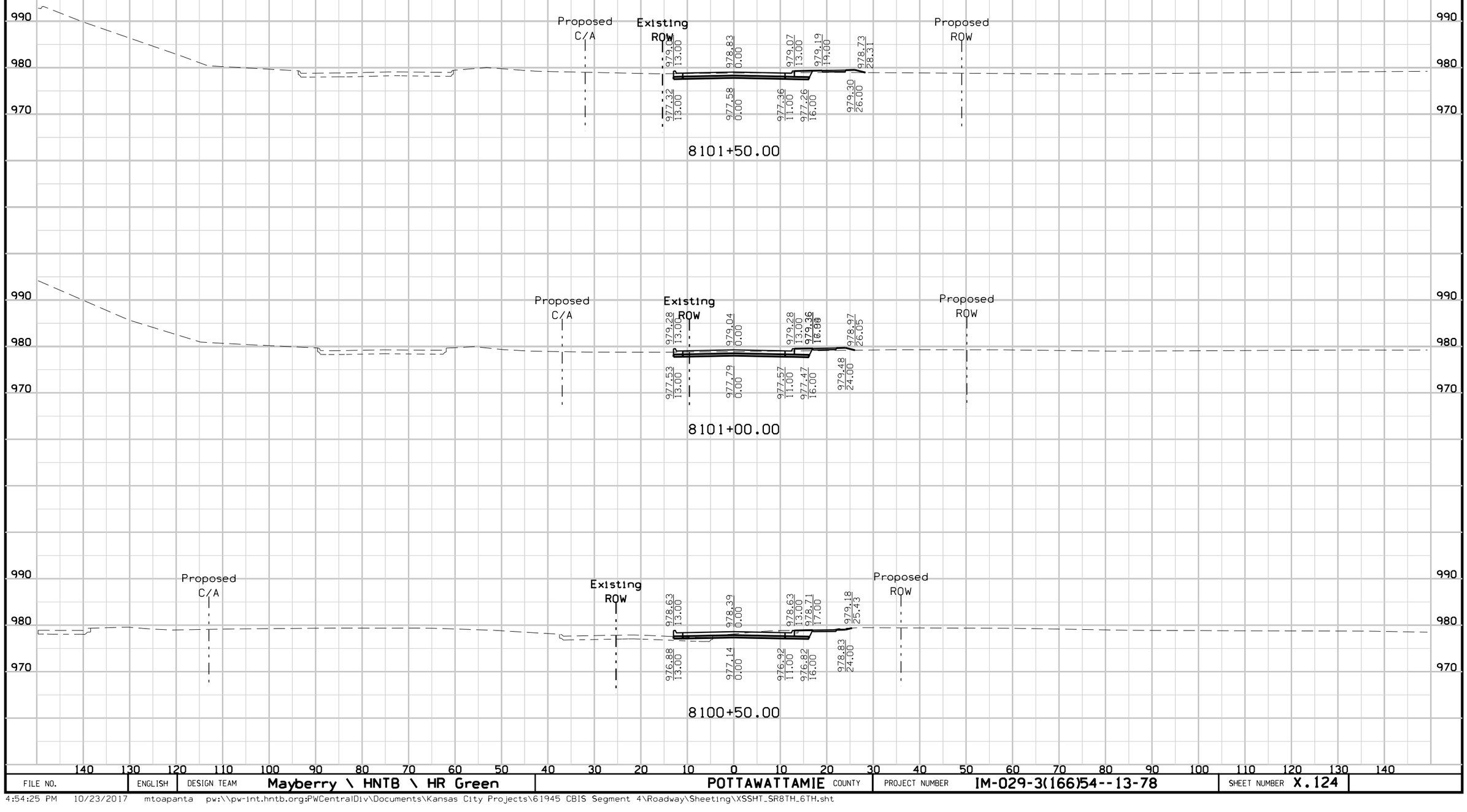
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER X.123

4:54:24 PM 10/23/2017 mtoapanta pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\XSSHT_SR8TH_6TH.sht

8TH TO 6TH CONN.
Preliminary

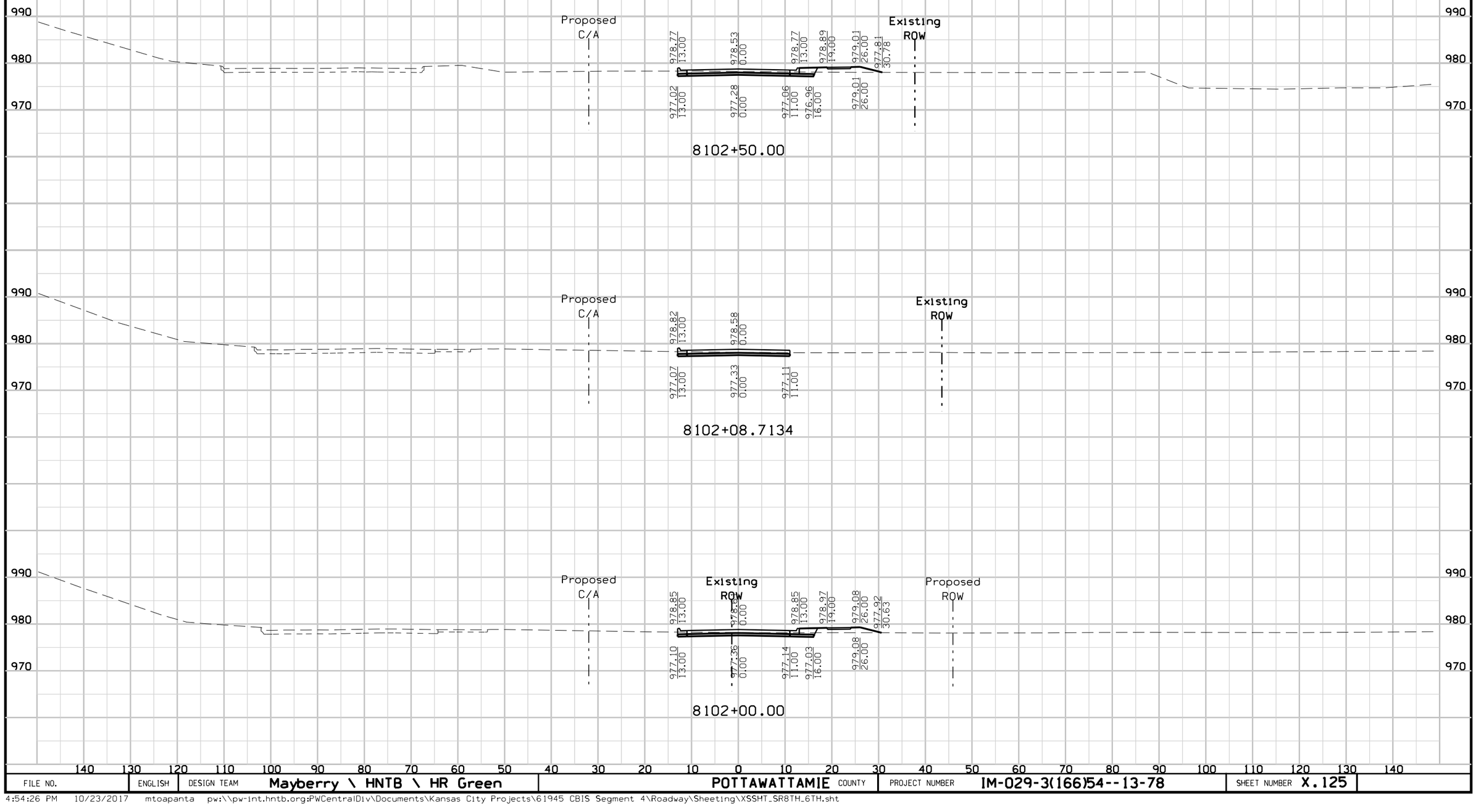


FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER X.124

4:54:25 PM 10/23/2017 mtoapanta pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\XSSHT_SR8TH_6TH.sht

8TH TO 6TH CONN.

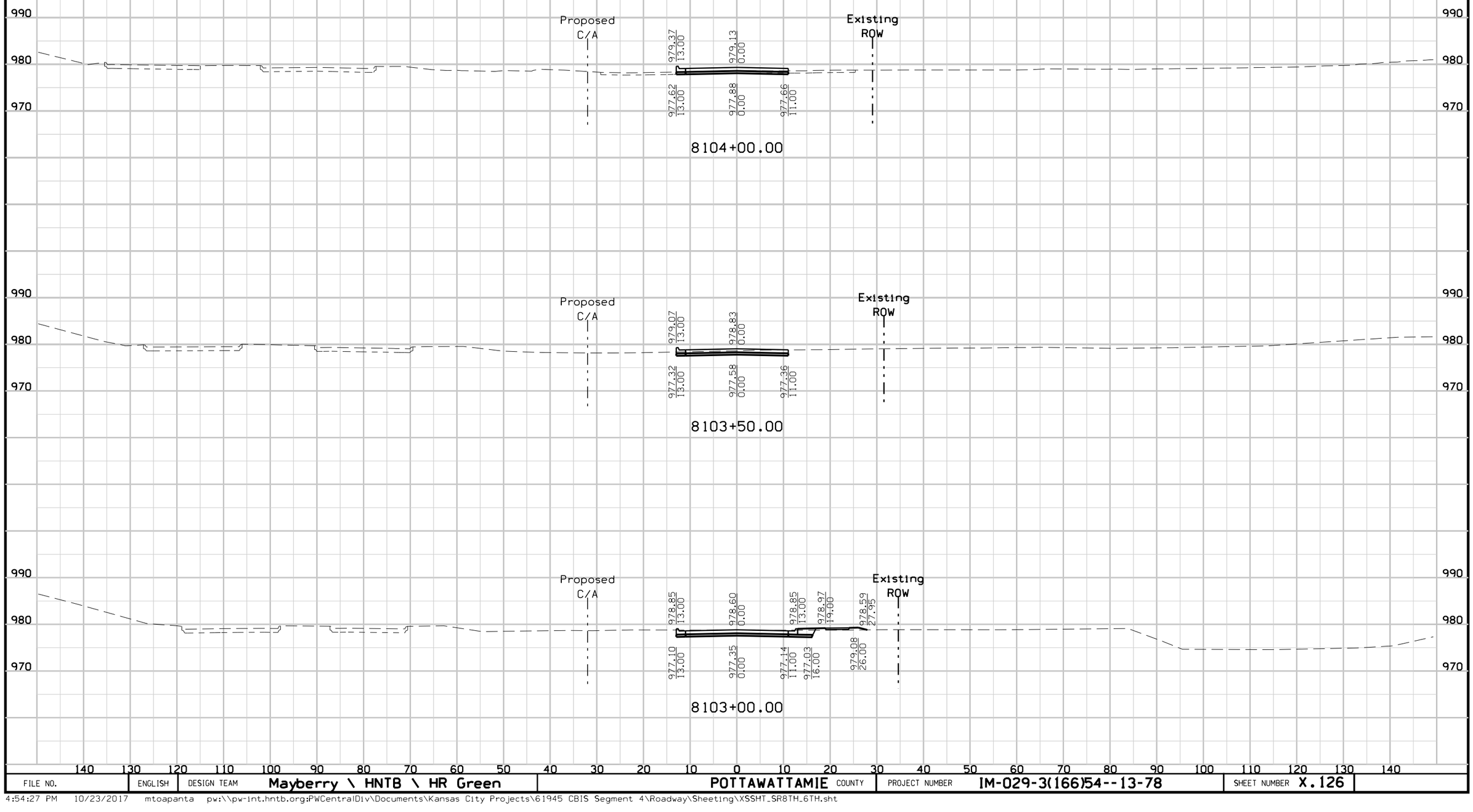
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER X.125

4:54:26 PM 10/23/2017 mtoapanta pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\XSSHT_SR8TH_6TH.sht

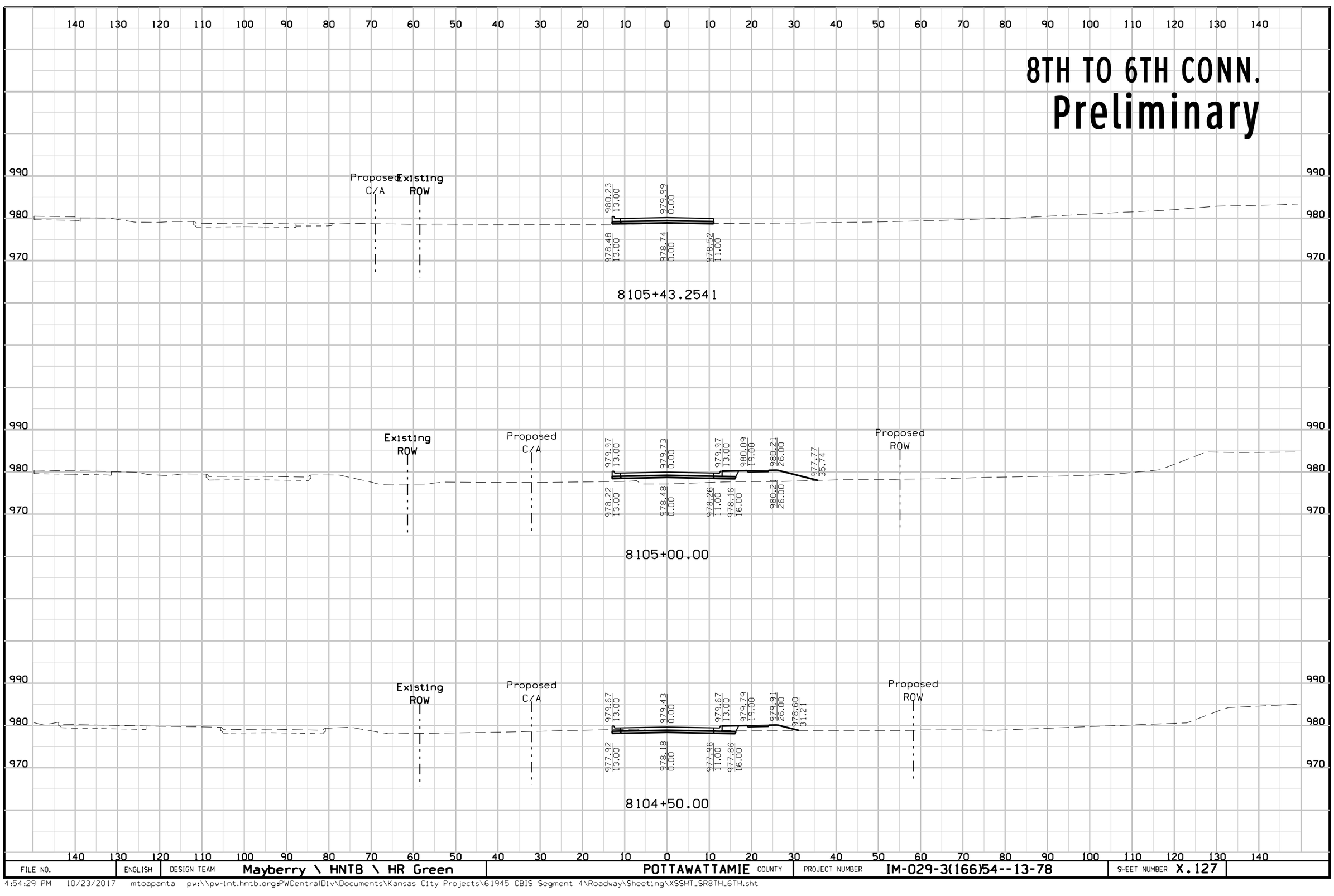
8TH TO 6TH CONN.
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER X.126

4:54:27 PM 10/23/2017 mtoapanta pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\XSSHT_SR8TH_6TH.sht

8TH TO 6TH CONN.
Preliminary

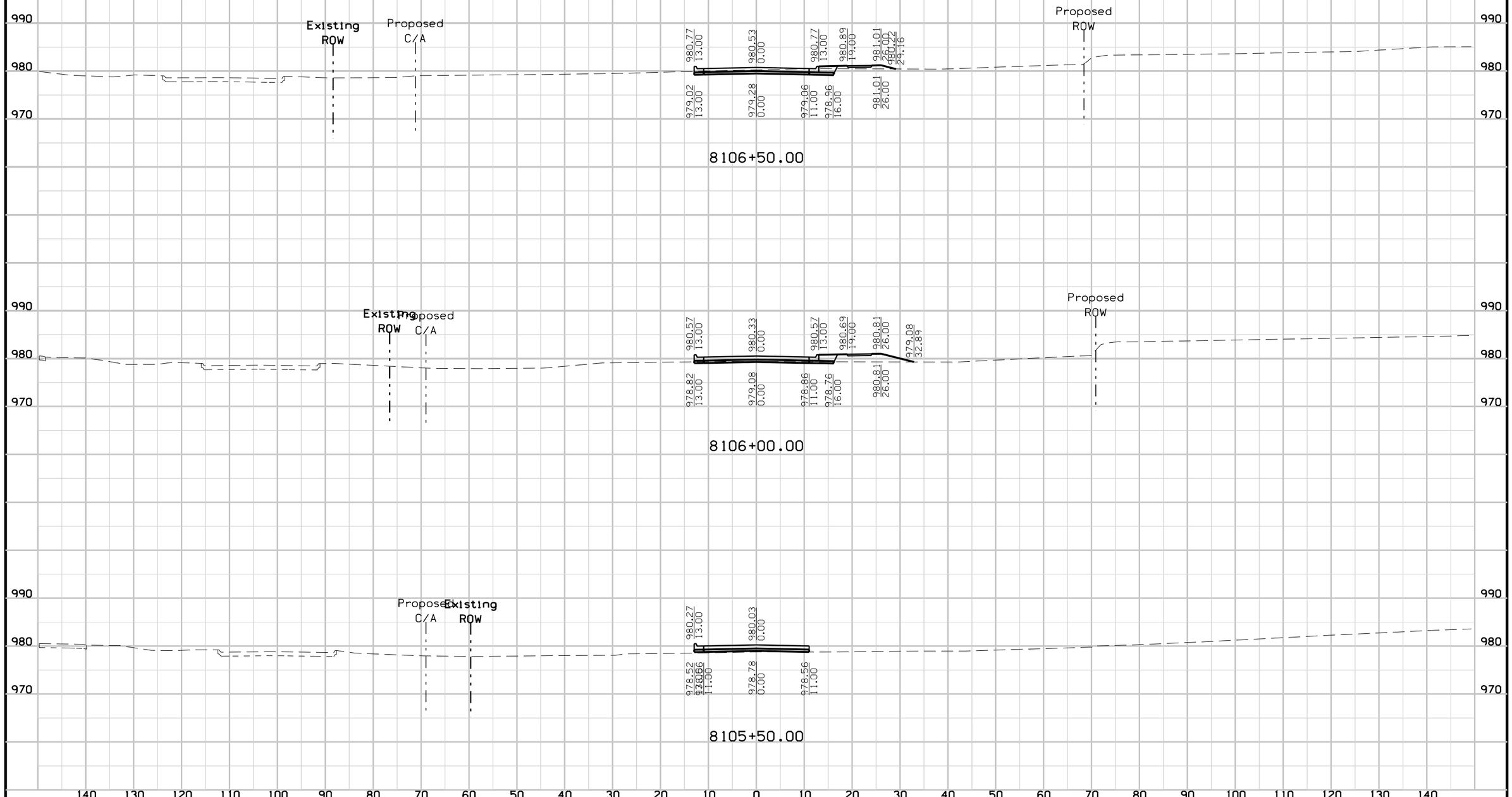


FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER X.127

4:54:29 PM 10/23/2017 mtoapanta pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\XSSHT_SR8TH_6TH.sht

8TH TO 6TH CONN.

Preliminary

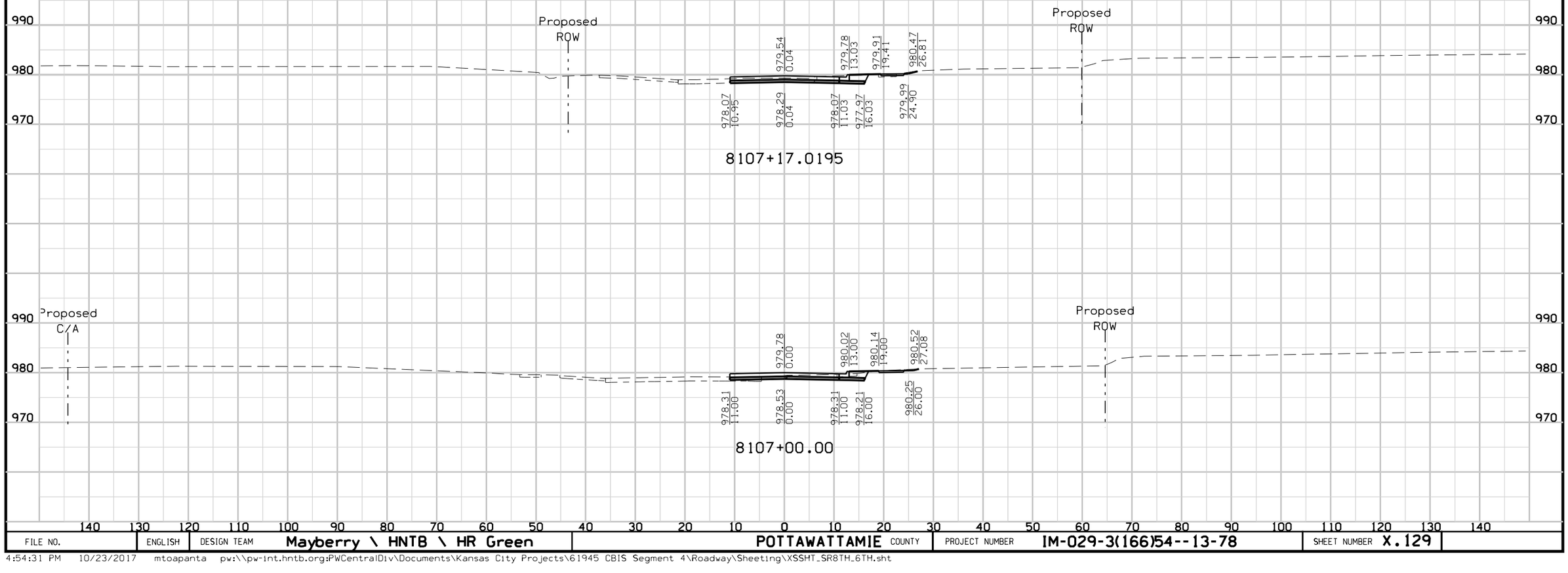


FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER X.128

4:54:30 PM 10/23/2017 mtoapanta pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\XSSHT_SR8TH_6TH.sht

8TH TO 6TH CONN.

Preliminary

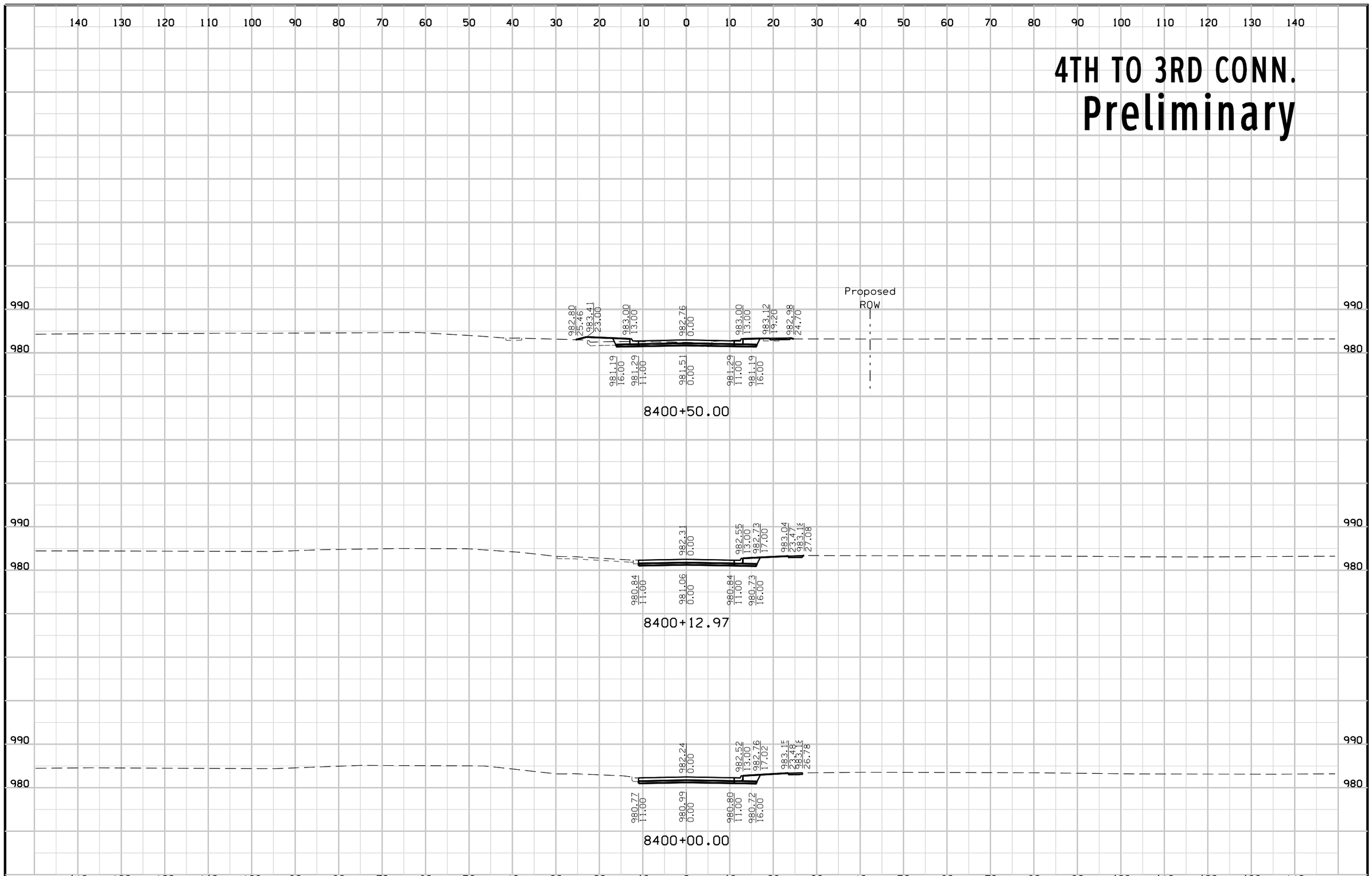


FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER X.129

4:54:31 PM 10/23/2017 mtoapanta pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\XSSHT_SR8TH_6TH.sht

4TH TO 3RD CONN.

Preliminary

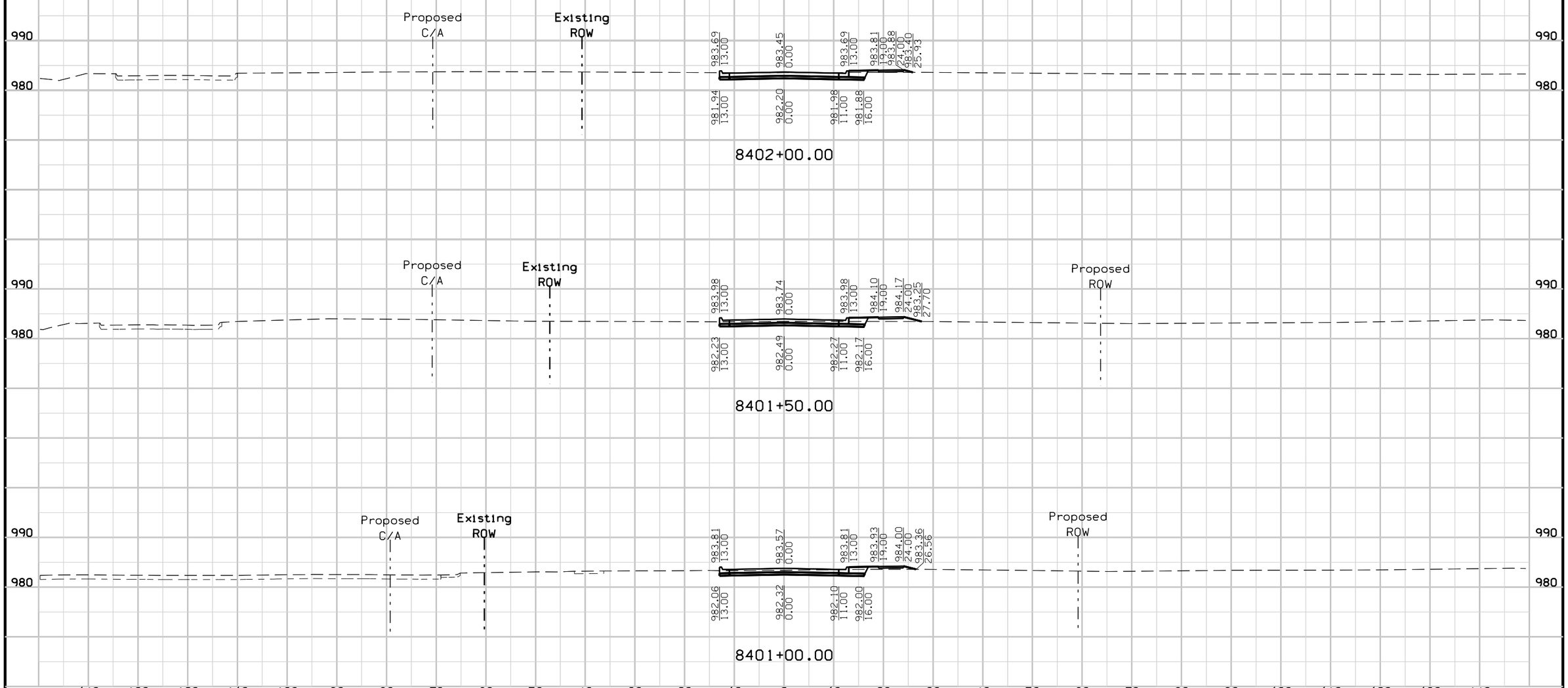


FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER X.130

4:54:34 PM 10/23/2017 mtoapanta pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\XSSHT_SR4TH_3RD.sht

4TH TO 3RD CONN.

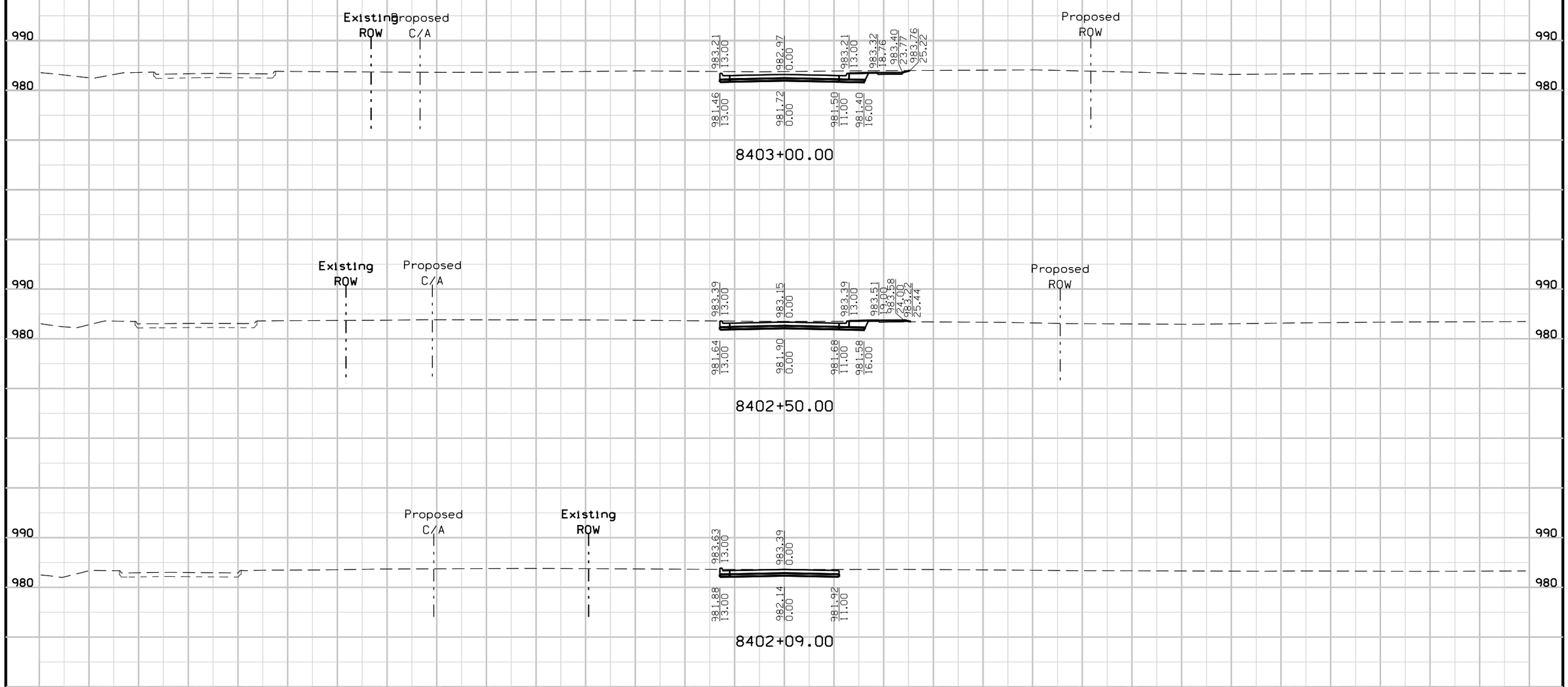
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER X.131

4:54:35 PM 10/23/2017 mtoapanta pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\XSSHT_SR4TH_3RD.sht

4TH TO 3RD CONN.
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER X.132

4:54:37 PM 10/23/2017 mtoapanta pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\XSSHT_SR4TH_3RD.sht

4TH TO 3RD CONN.

Preliminary

140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140

990
980

983.18 0.00
981.73 11.00
981.93 0.00
981.74 11.00

8404+00.00

Proposed ROW

983.20 0.04
983.44 13.03
983.52 16.98
983.64 22.85
983.50 28.80
981.73 10.95
981.95 0.04
981.73 11.03
981.63 16.03

8403+73.00

Proposed ROW

Proposed C/A

Existing ROW

983.14 0.00
983.38 13.00
983.53 20.62
983.57 25.79
981.67 11.00
981.89 0.00
981.67 11.00
981.57 16.00

8403+50.00

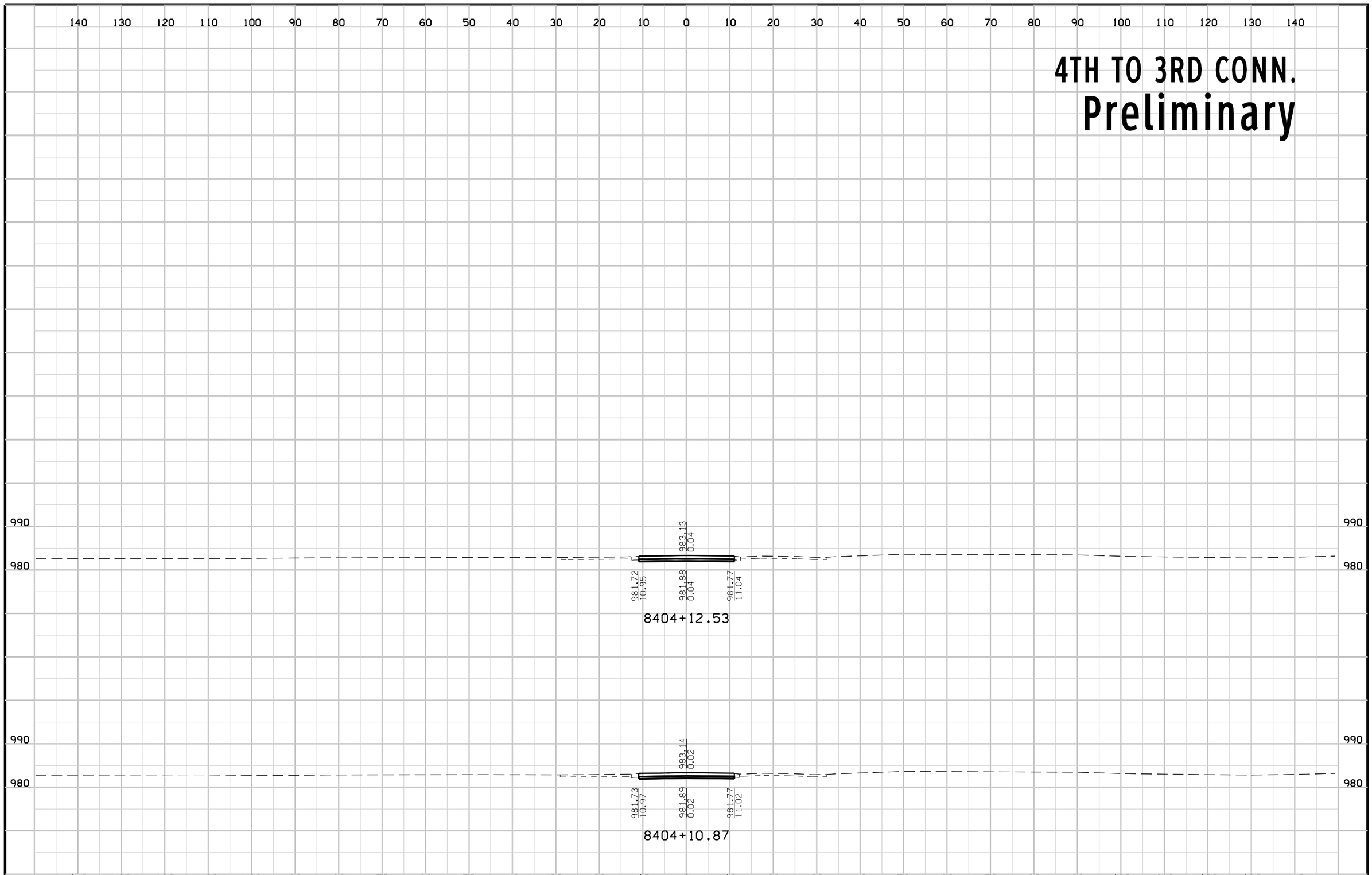
140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140

FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER X.133

4:54:38 PM 10/23/2017 mtoapanta pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\XSSHT_SR4TH_3RD.sht

4TH TO 3RD CONN.

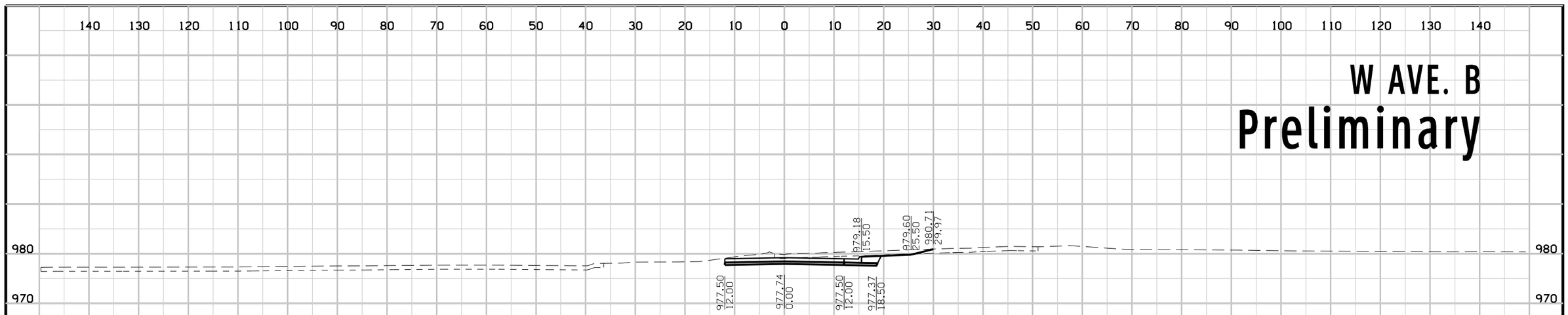
Preliminary

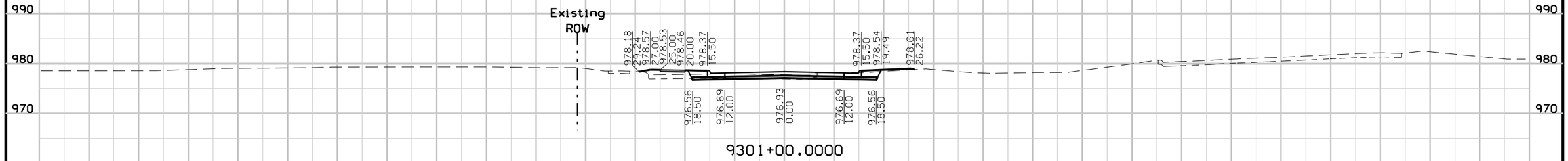


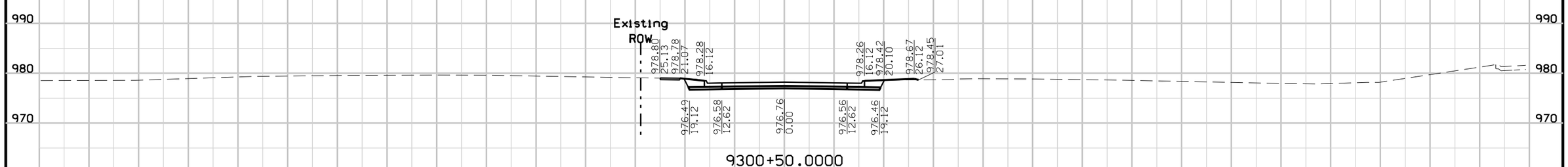
FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER X.134

4:54:39 PM 10/23/2017 mtoapanta pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\XSSHT_SR4TH_3RD.sht

W AVE. B
Preliminary



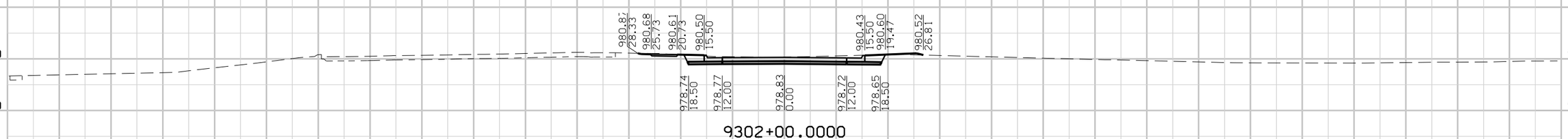




FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER X.135

4:54:42 PM 10/23/2017 mtoapanta pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\XSSHT_SRAVEB.sht

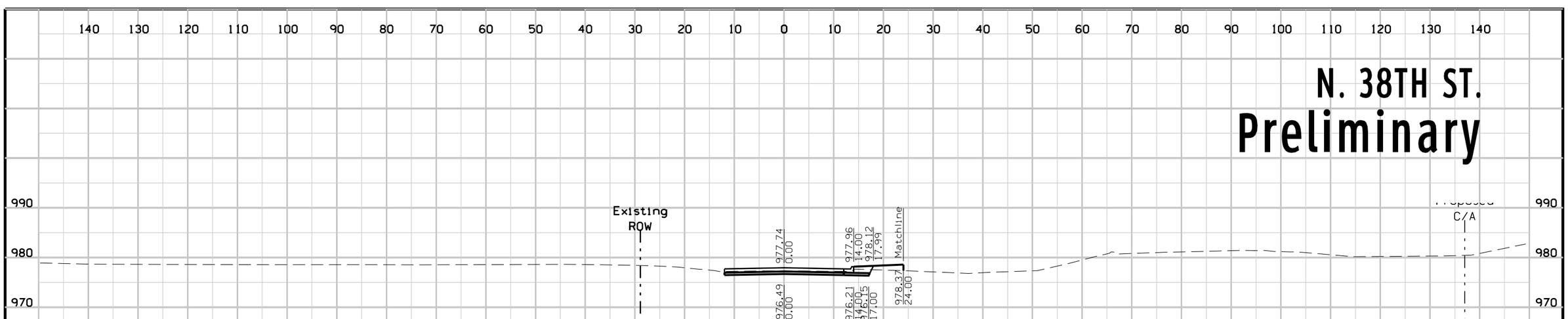
W AVE. B
Preliminary

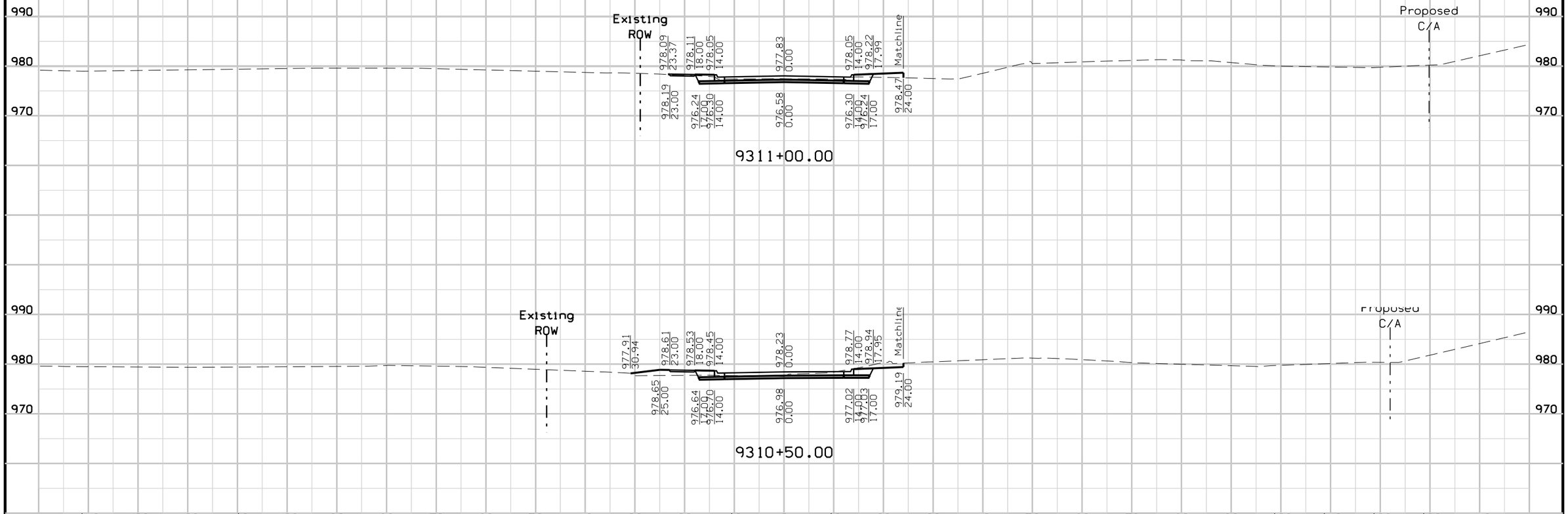


FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER X.136

4:54:43 PM 10/23/2017 mtoapanta pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\XSSHT_SRAVEB.sht

N. 38TH ST.
Preliminary

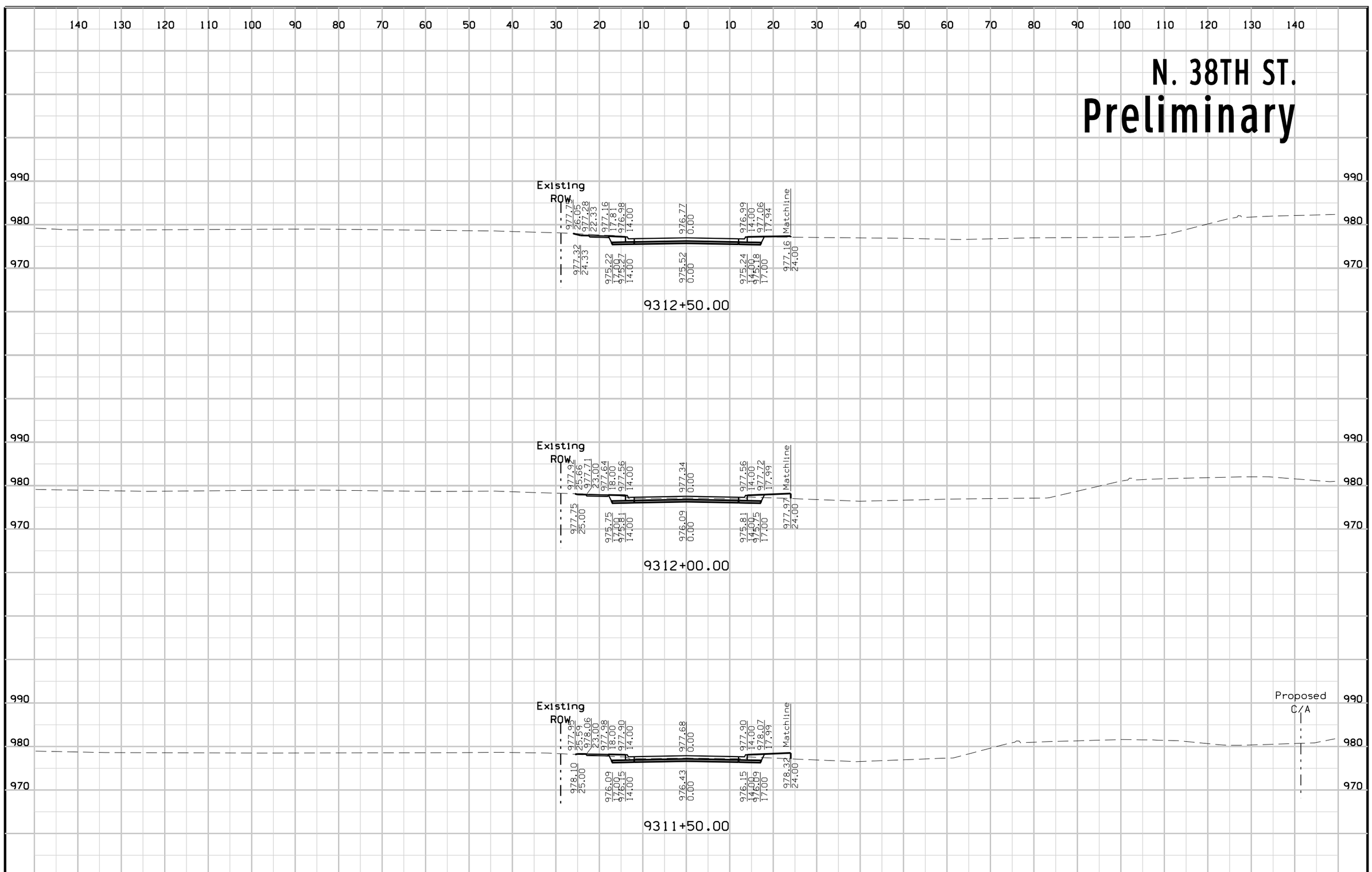




FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER X.137

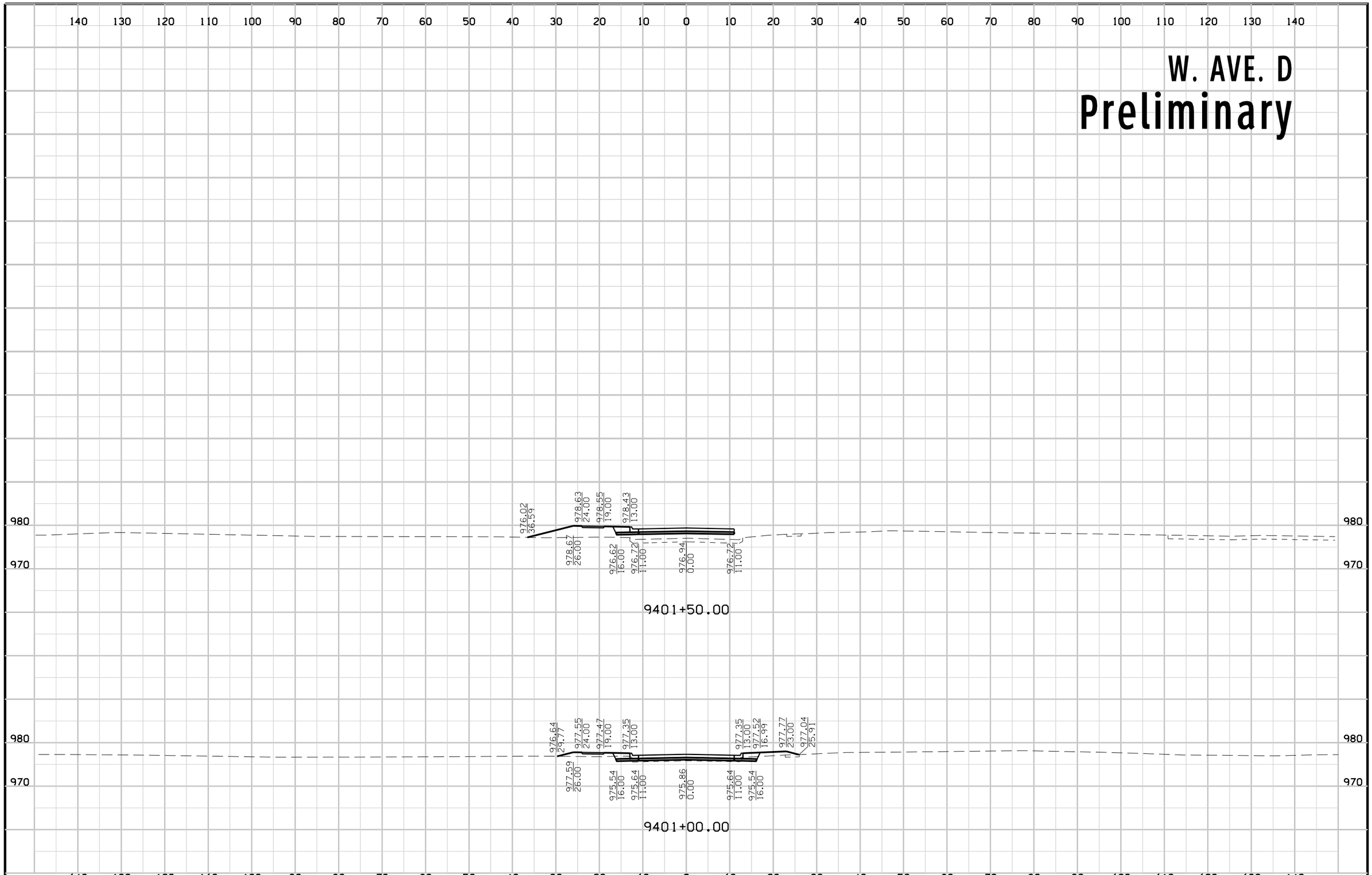
4:54:46 PM 10/23/2017 mtoapanta pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\XSSHT_SRN38TH.sht

N. 38TH ST.
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER X.138

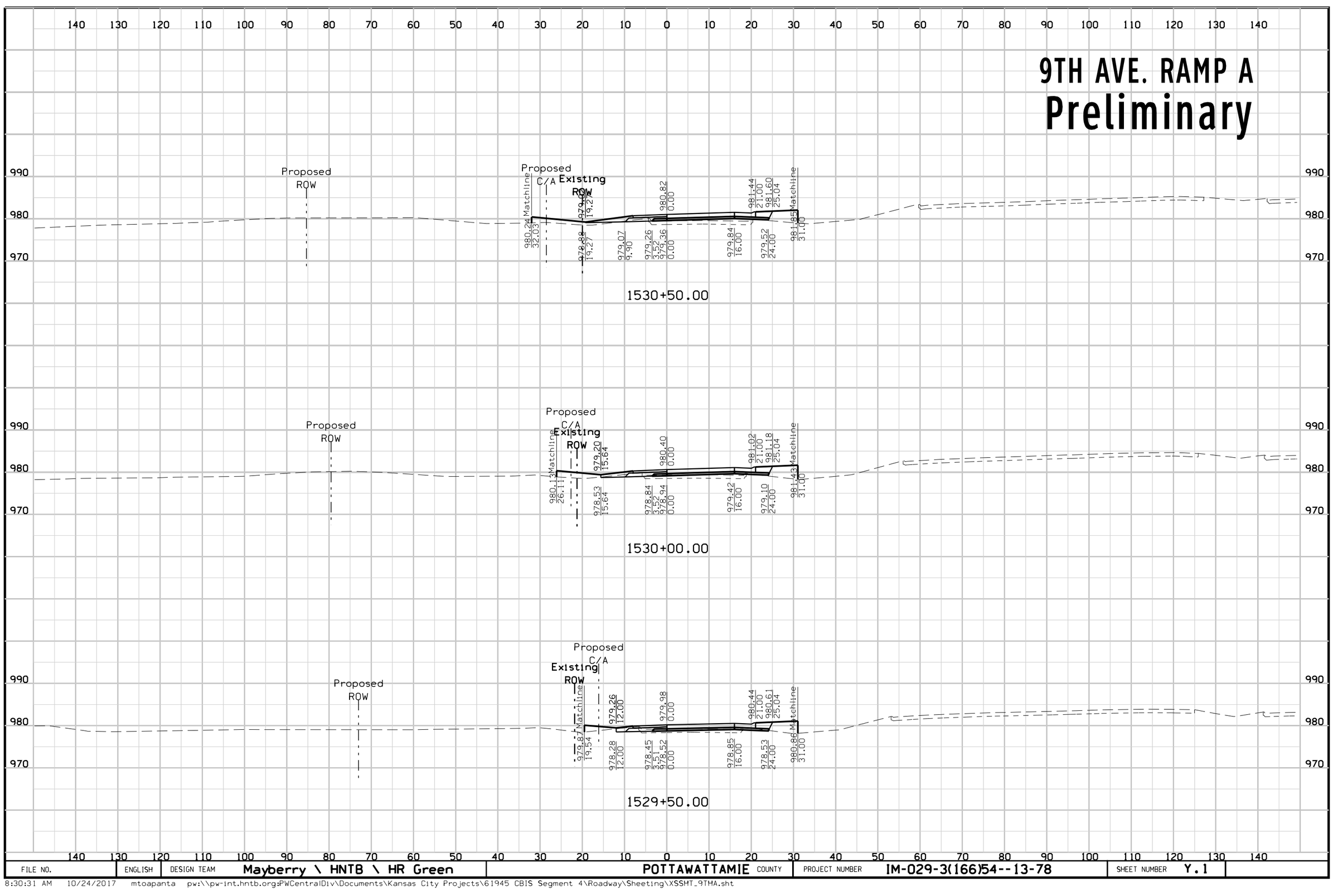
4:54:47 PM 10/23/2017 mtoapanta pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\XSSHT_SRN38TH.sht



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER	X.139

4:54:49 PM 10/23/2017 mtoapanta pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\XSSHT_SRAVED.sht

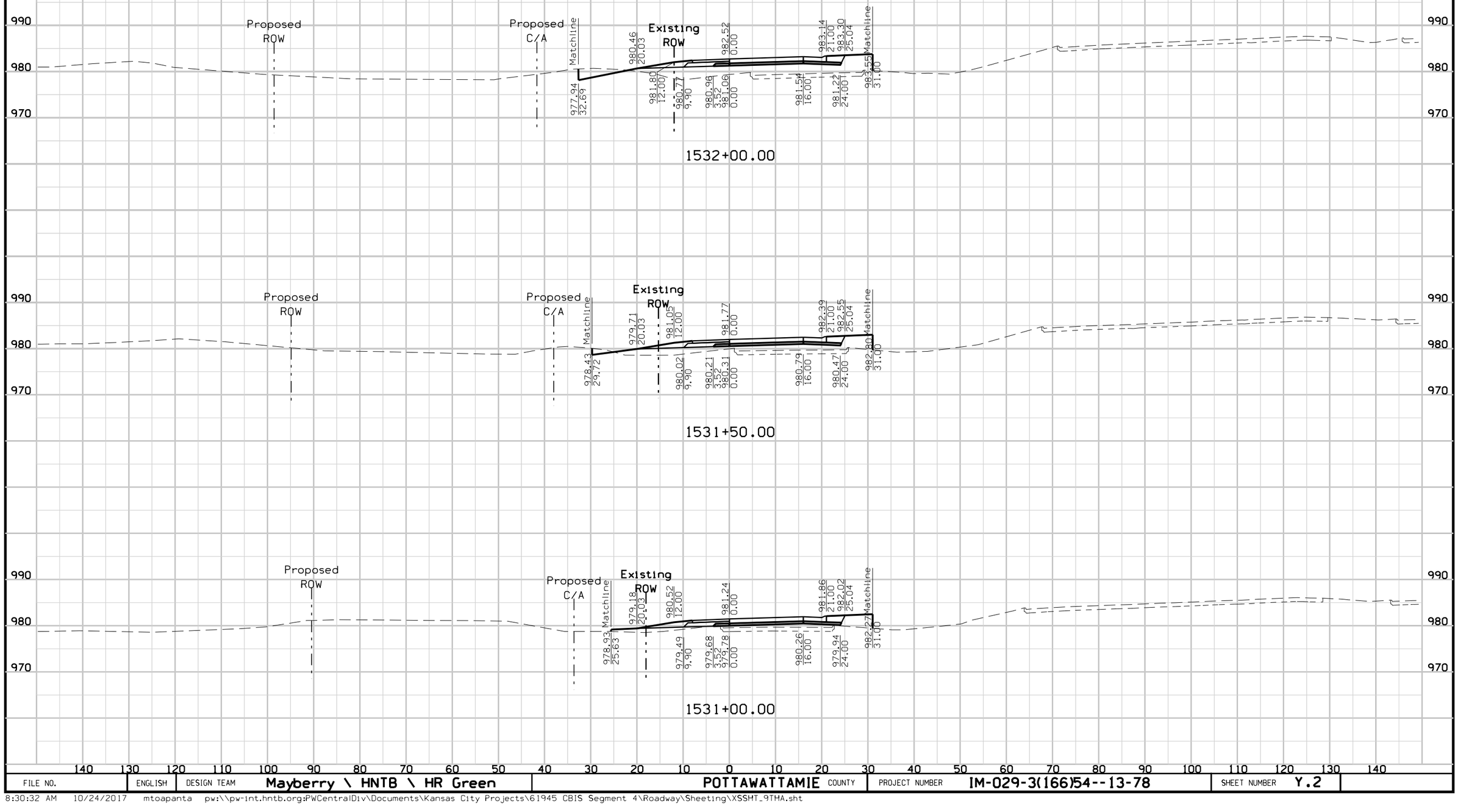
9TH AVE. RAMP A
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER	Y.1

8:30:31 AM 10/24/2017 mtoapanta pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\XSSHT_9THA.sht

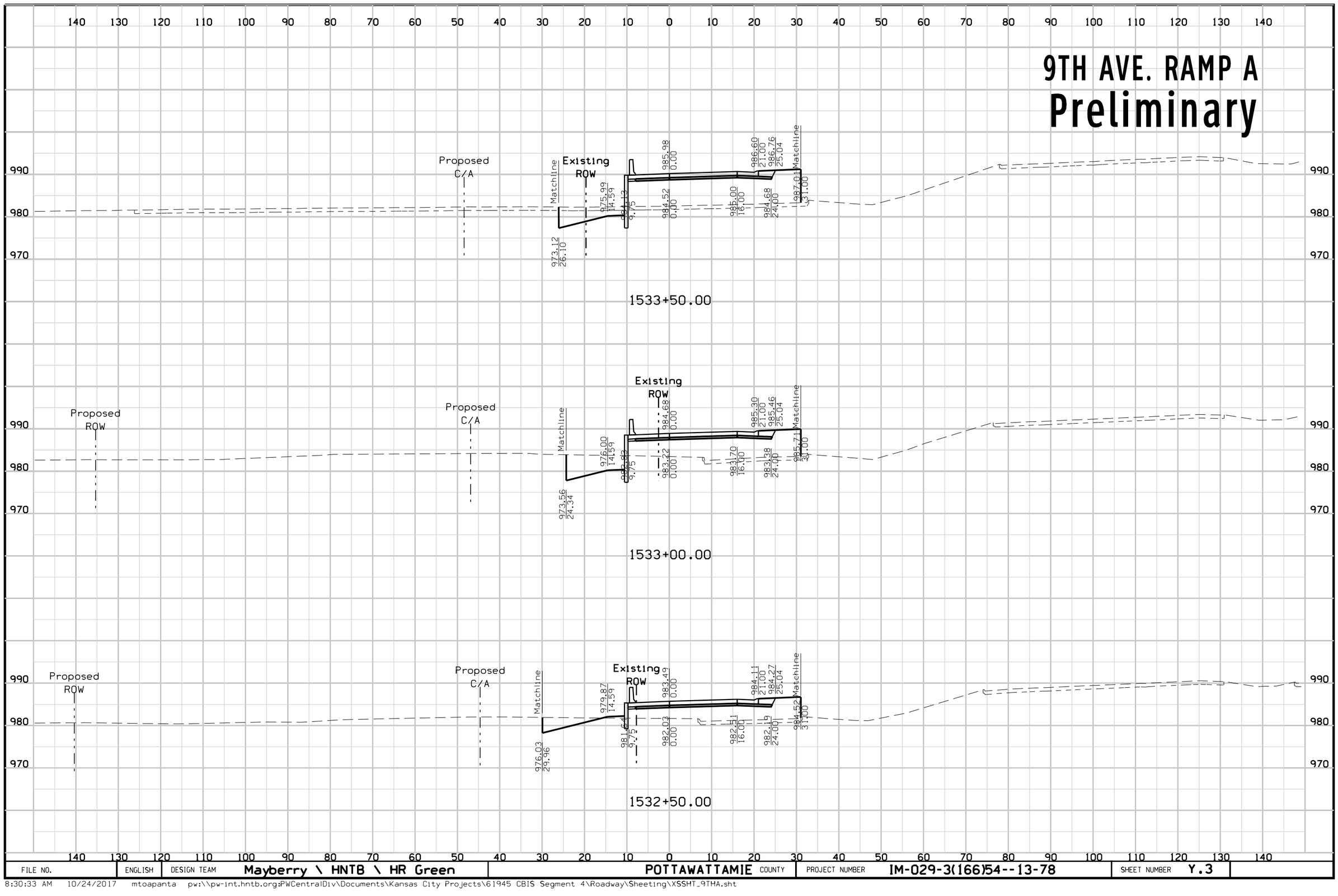
9TH AVE. RAMP A
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER	Y.2

8:30:32 AM 10/24/2017 mtoapanta pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\XSSHT_9THA.sht

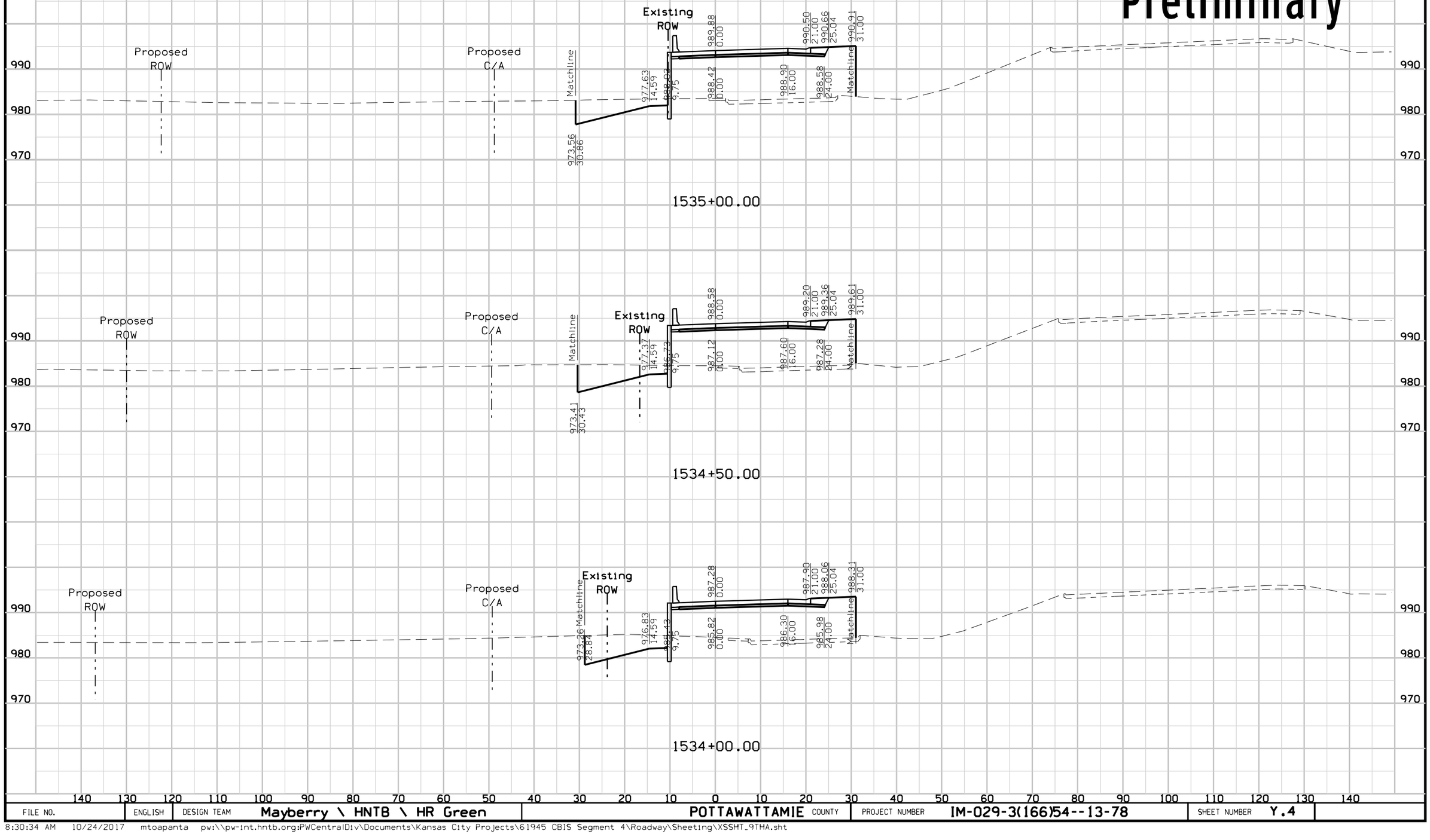
9TH AVE. RAMP A
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER	Y.3

8:30:33 AM 10/24/2017 mtoapanta pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\XSSHT_9THA.sht

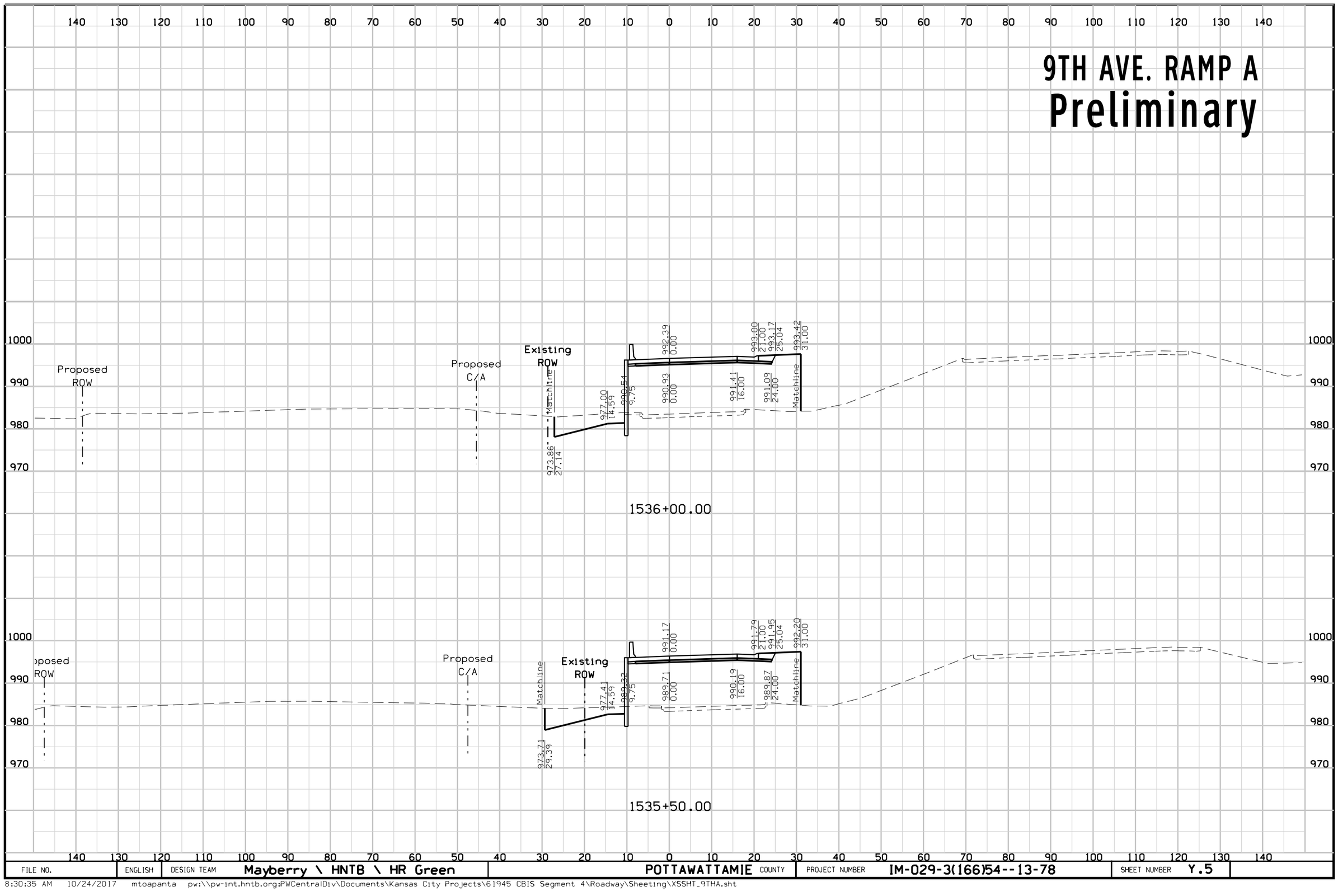
9TH AVE. RAMP A
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER	Y.4

8:30:34 AM 10/24/2017 mtoapanta pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\XSSHT_9THA.sht

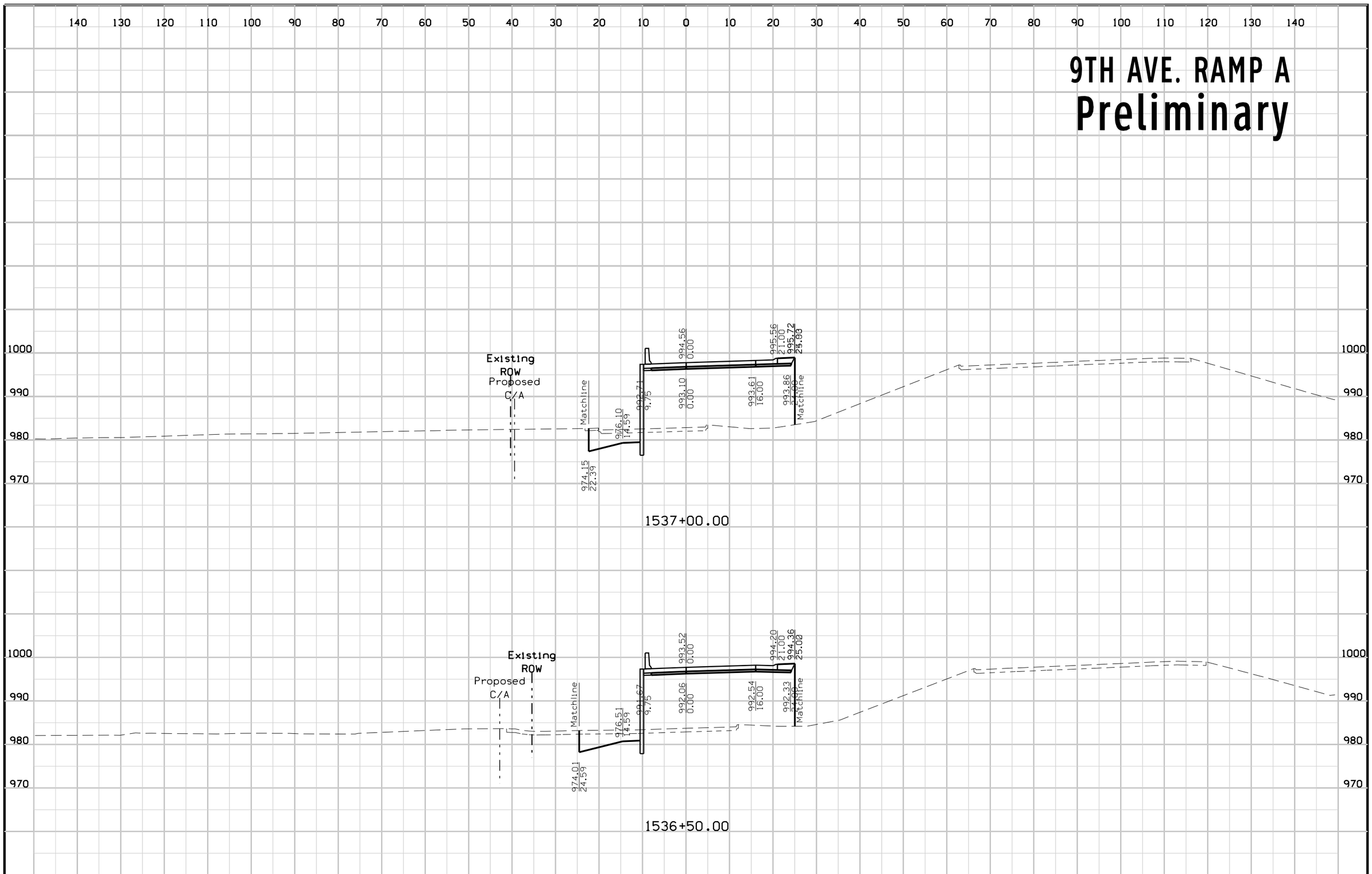
9TH AVE. RAMP A
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER	Y.5

8:30:35 AM 10/24/2017 mtoapanta pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\XSSHT_9THA.sht

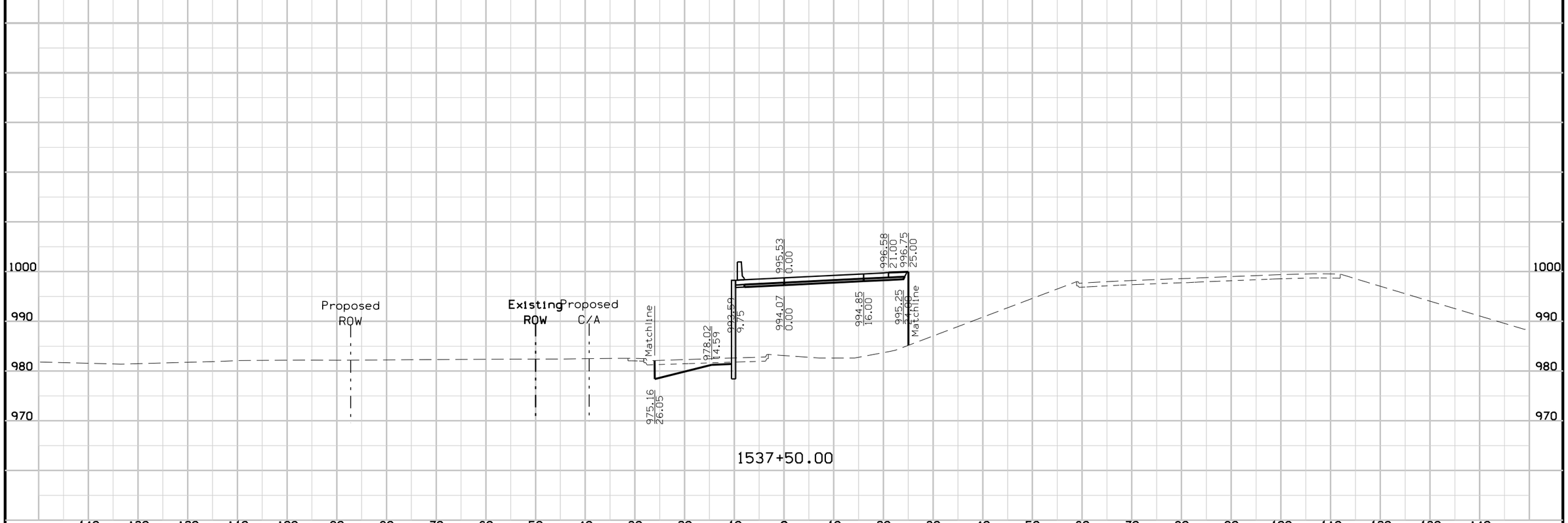
9TH AVE. RAMP A
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER	Y.6

8:30:36 AM 10/24/2017 mtoapanta pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\XSSHT_9THA.sht

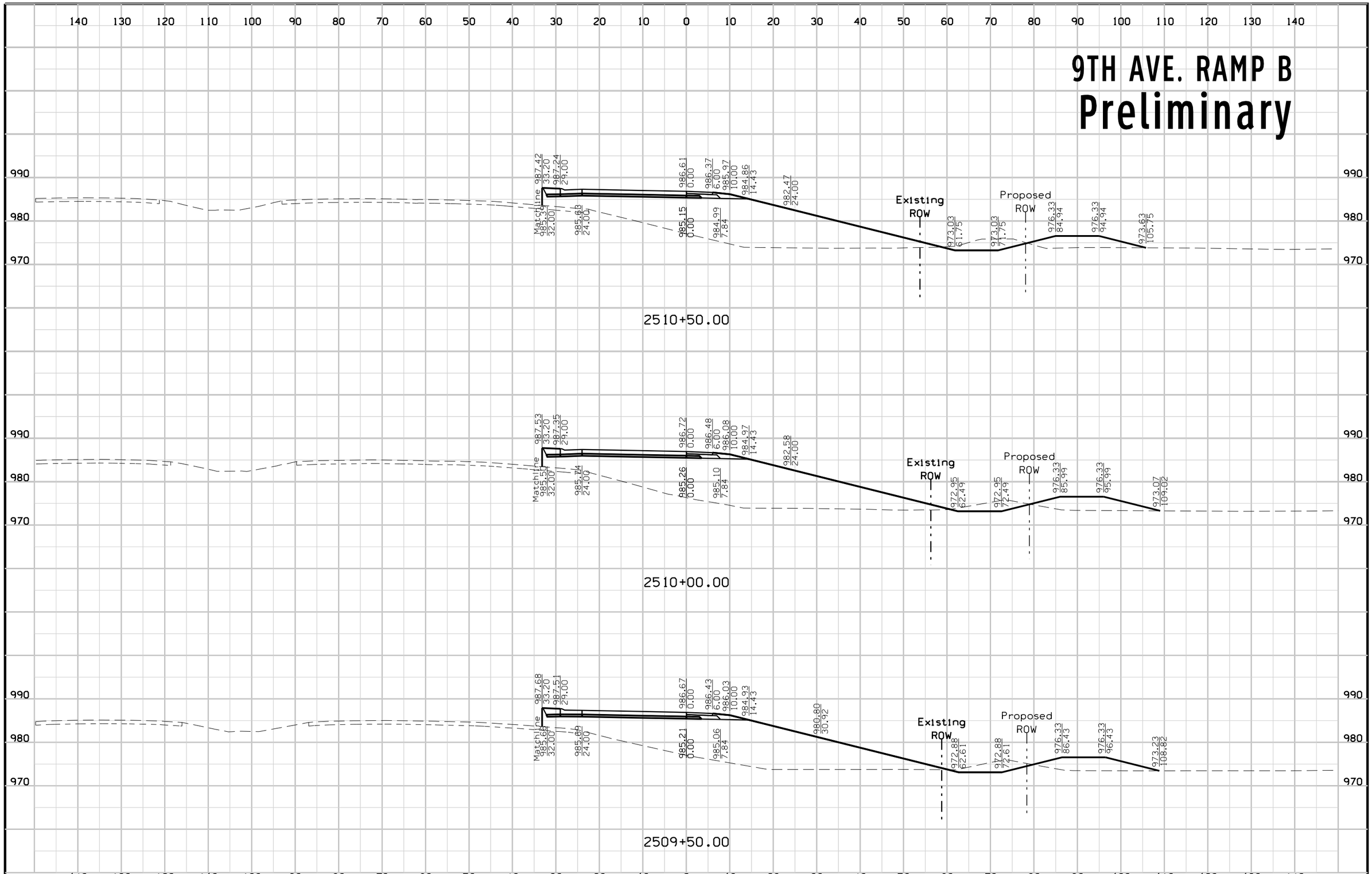
9TH AVE. RAMP A
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER	Y.7

8:30:37 AM 10/24/2017 mtoapanta pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\XSSHT_9THA.sht

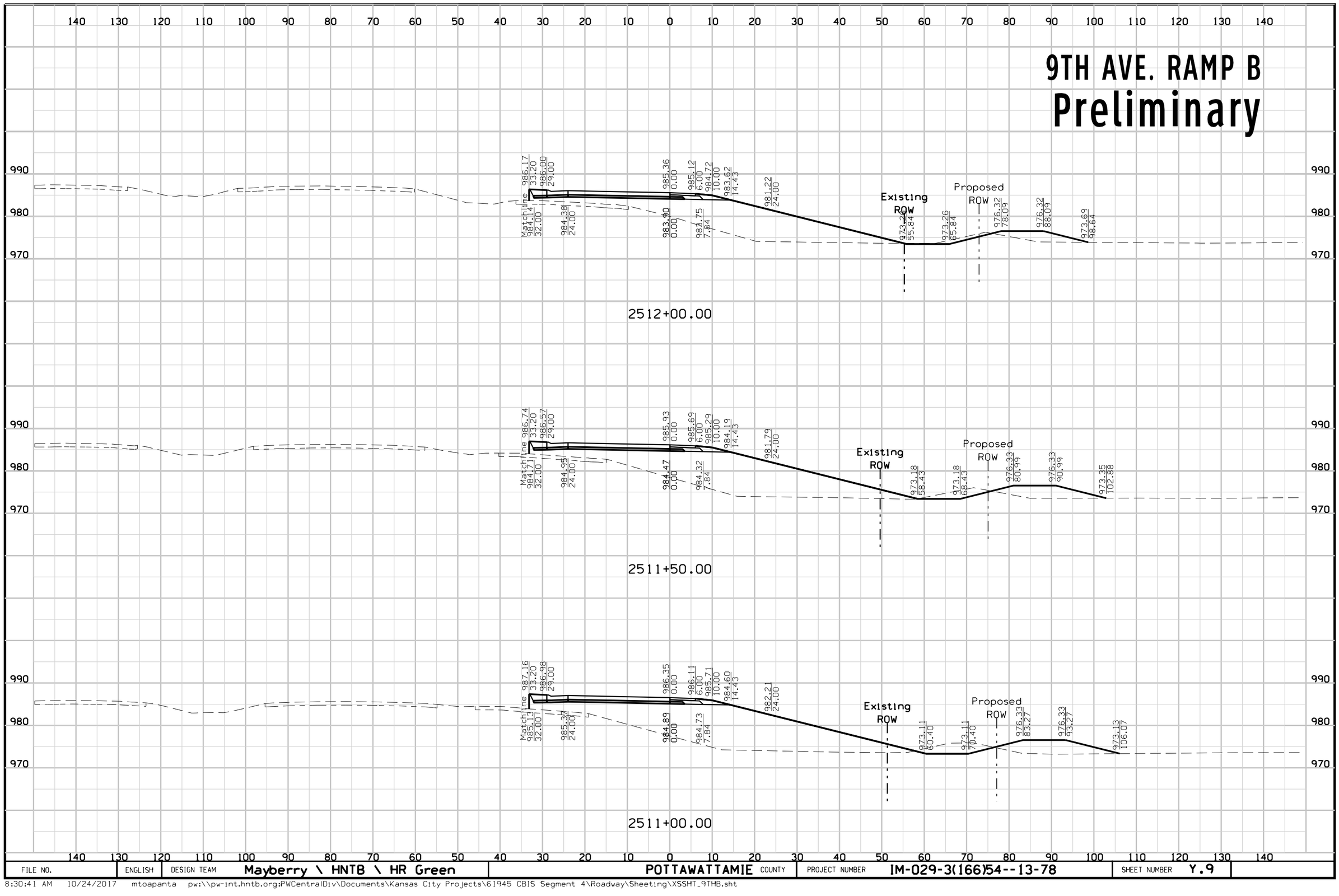
9TH AVE. RAMP B
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER	Y.8

8:30:39 AM 10/24/2017 mtoapanta pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\XSSHT_9THB.sht

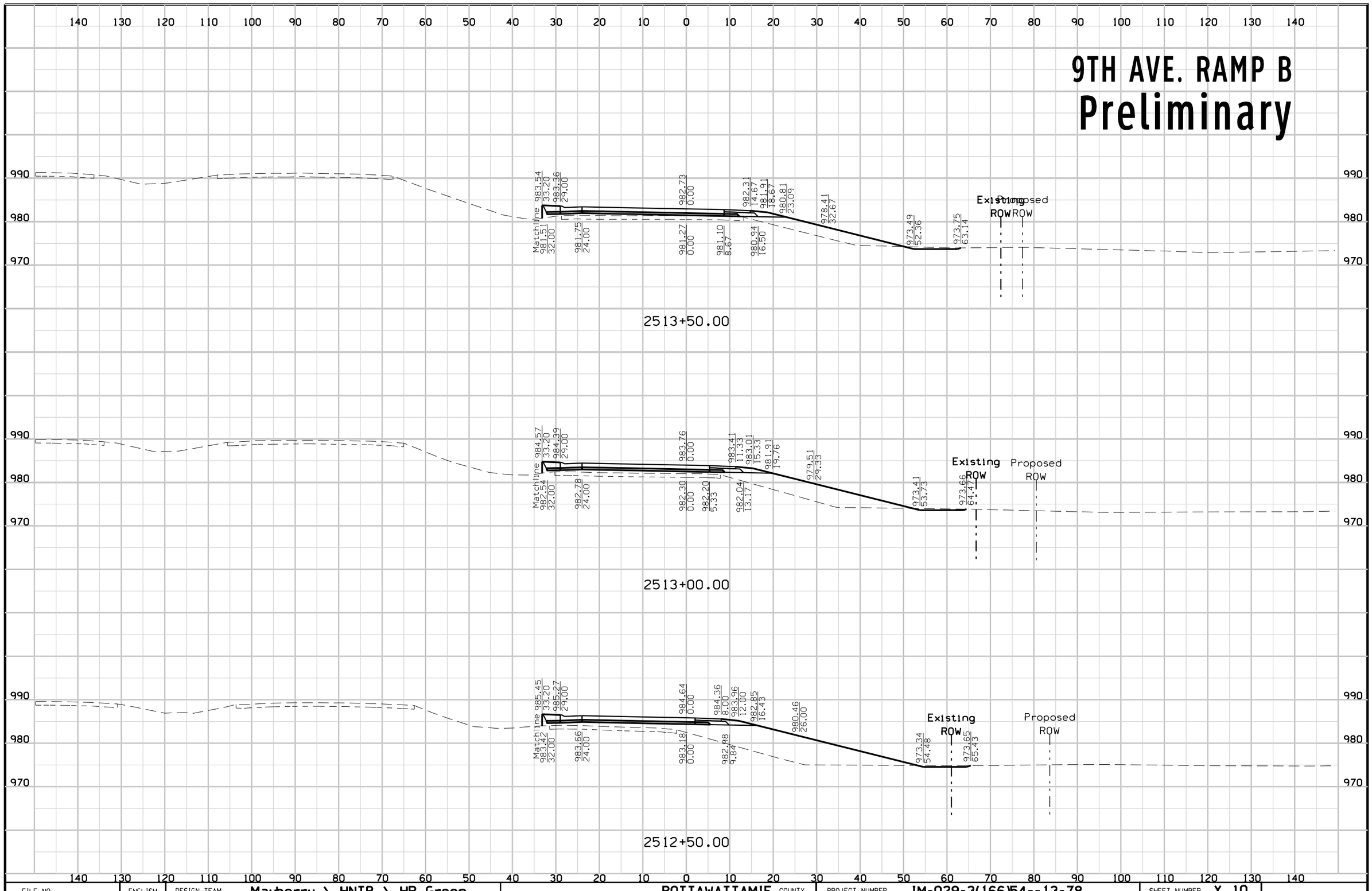
9TH AVE. RAMP B
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER	Y.9

8:30:41 AM 10/24/2017 mtoapanta pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\XSSHT_9THB.sht

9TH AVE. RAMP B
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM		COUNTY	PROJECT NUMBER	SHEET NUMBER
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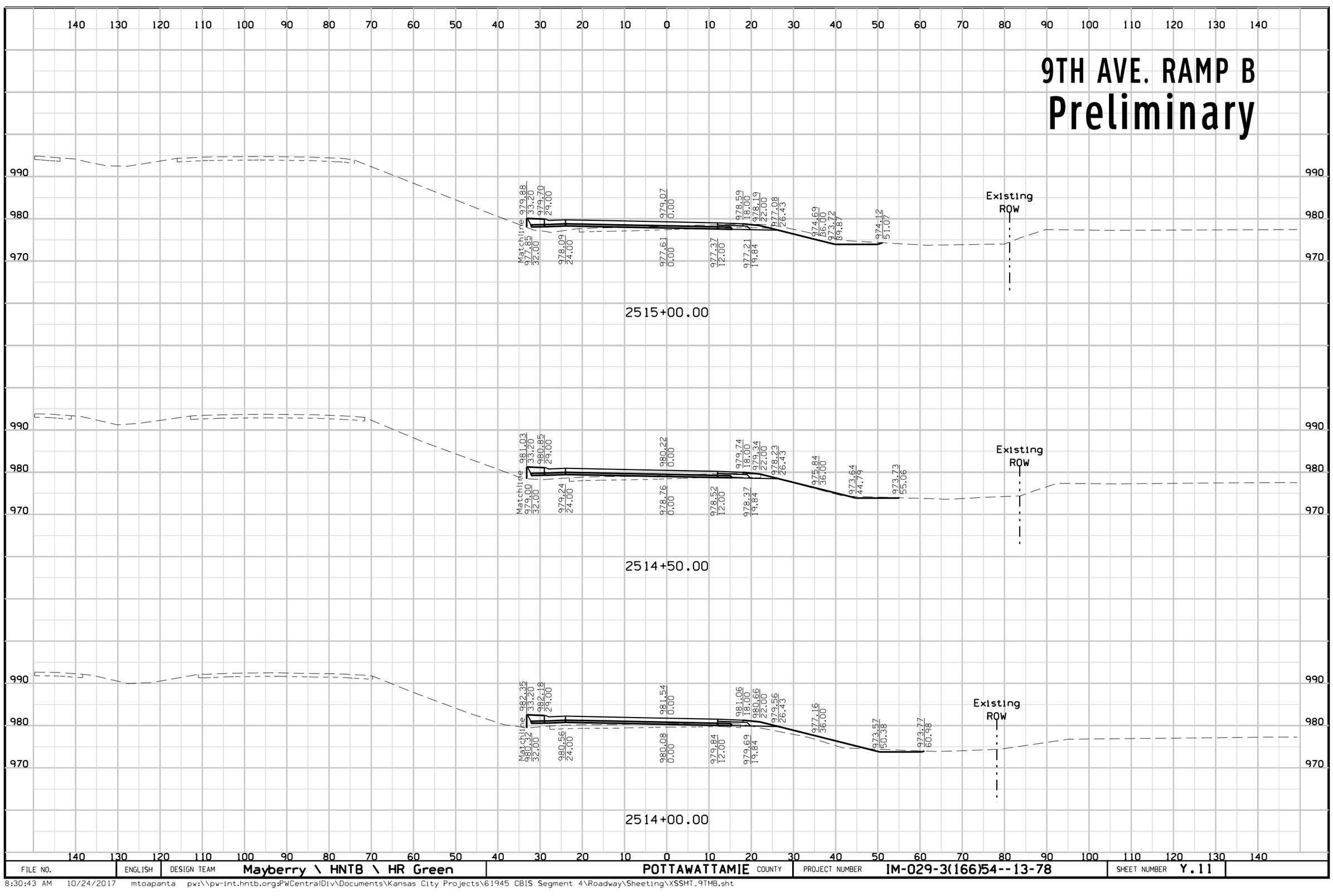
8:30:42 AM 10/24/2017 mtoapanta pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\XSSHT_9THB.sht

9TH AVE. RAMP B
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER	Y.11

8:30:43 AM 10/24/2017 mtoapanta pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\XSSHT_9THB.sht

9TH AVE. RAMP B
Preliminary

140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140

990
980
970

Existing ROW

2516+50.00

Matchline 978.93 33.20 978.75 29.00 977.88 0.00 977.40 18.00 977.00 22.00 975.85 28.64 974.57 36.00 973.87 40.02 974.12 50.75
976.90 32.00 976.90 24.00 976.42 0.00 976.18 12.00 976.02 19.84

Existing ROW

2516+00.00

Matchline 979.10 33.20 978.92 29.00 978.29 0.00 977.81 18.00 977.41 22.00 976.30 26.43 973.80 36.44 974.20 47.63
977.07 32.00 977.31 24.00 976.83 0.00 976.59 12.00 976.43 19.84

Existing ROW

2515+50.00

140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140

FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER	Y.12

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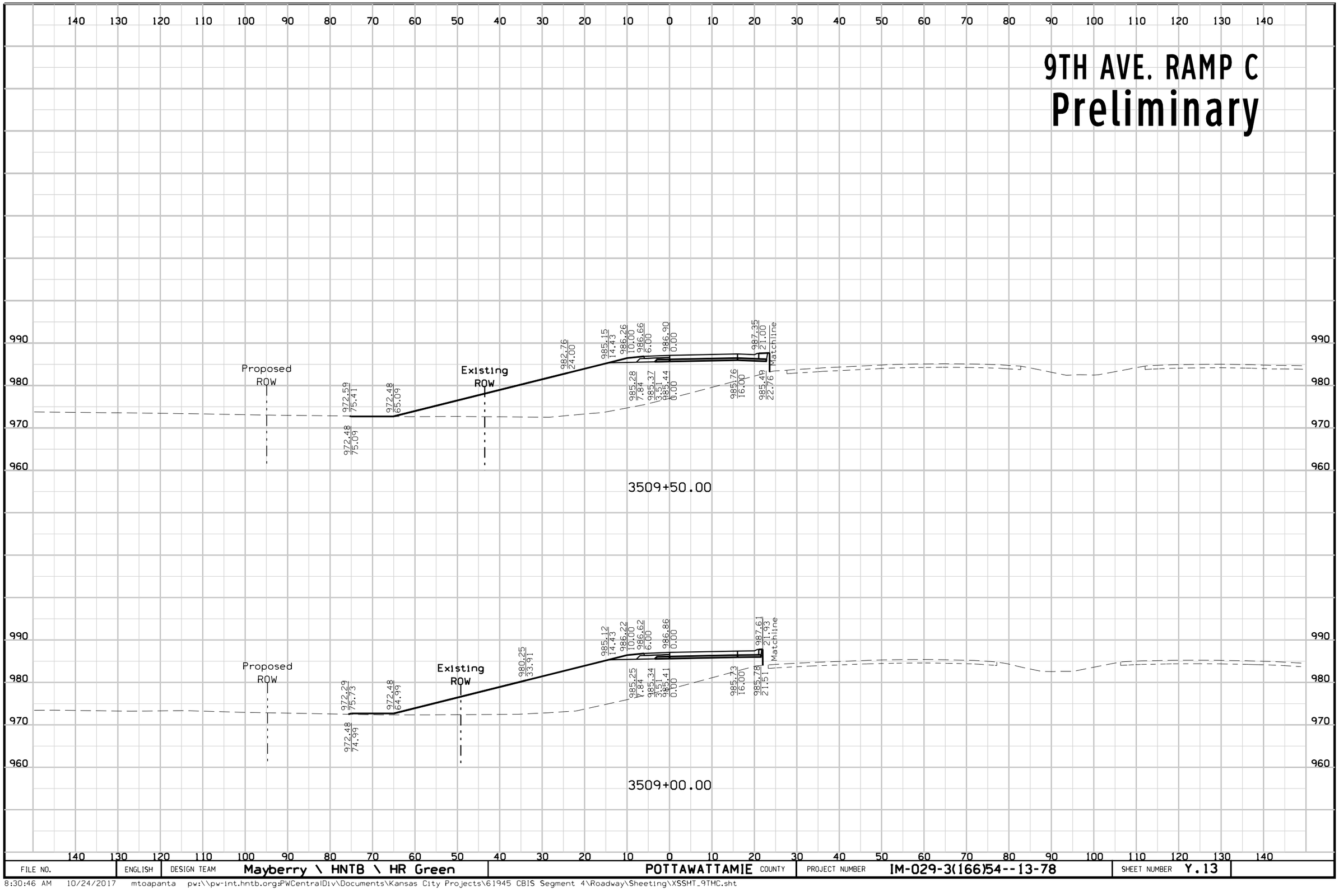
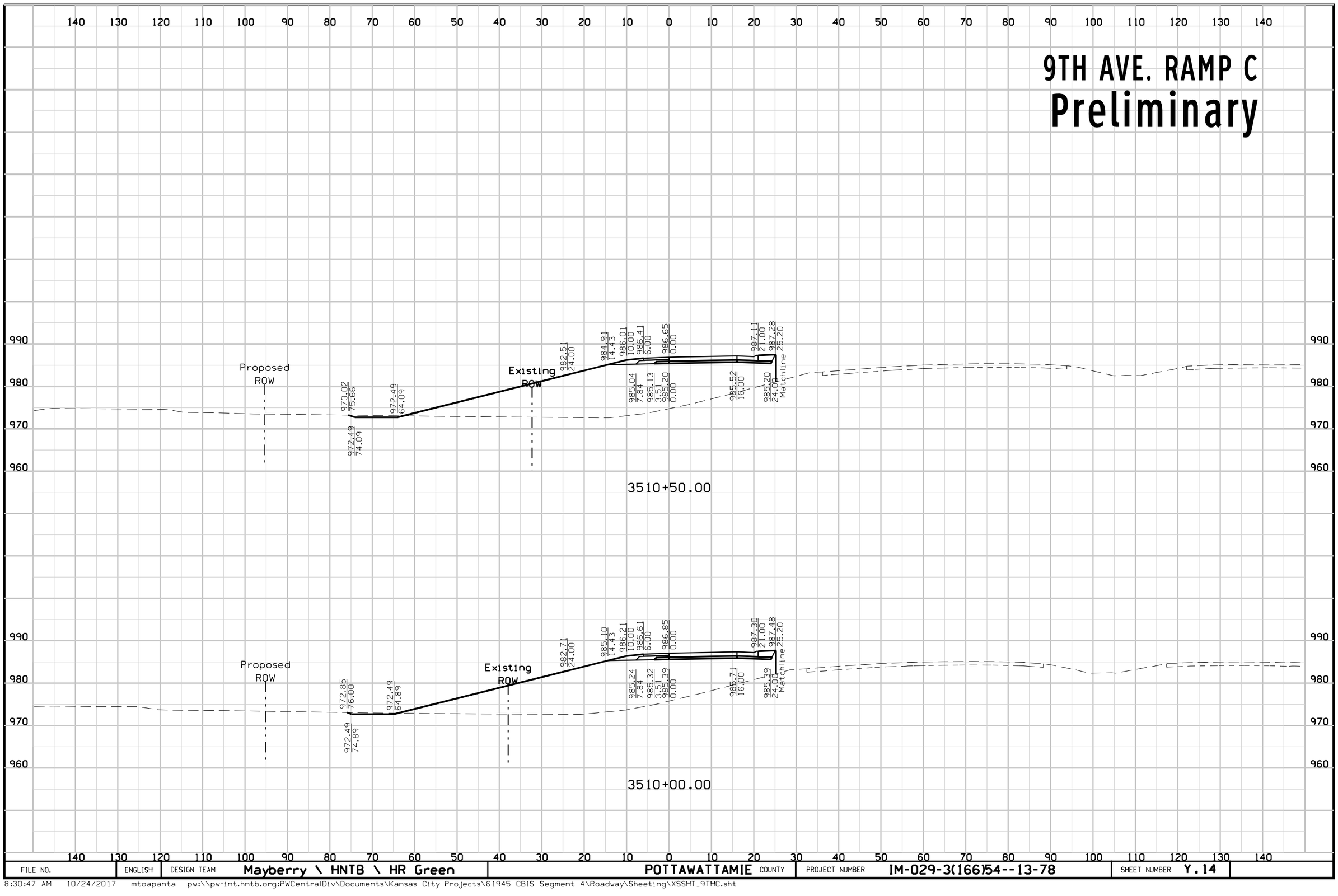
9TH AVE. RAMP C
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER	Y.13

8:30:46 AM 10/24/2017 mtoapanta pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\XSSHT_9THC.sht

9TH AVE. RAMP C
Preliminary



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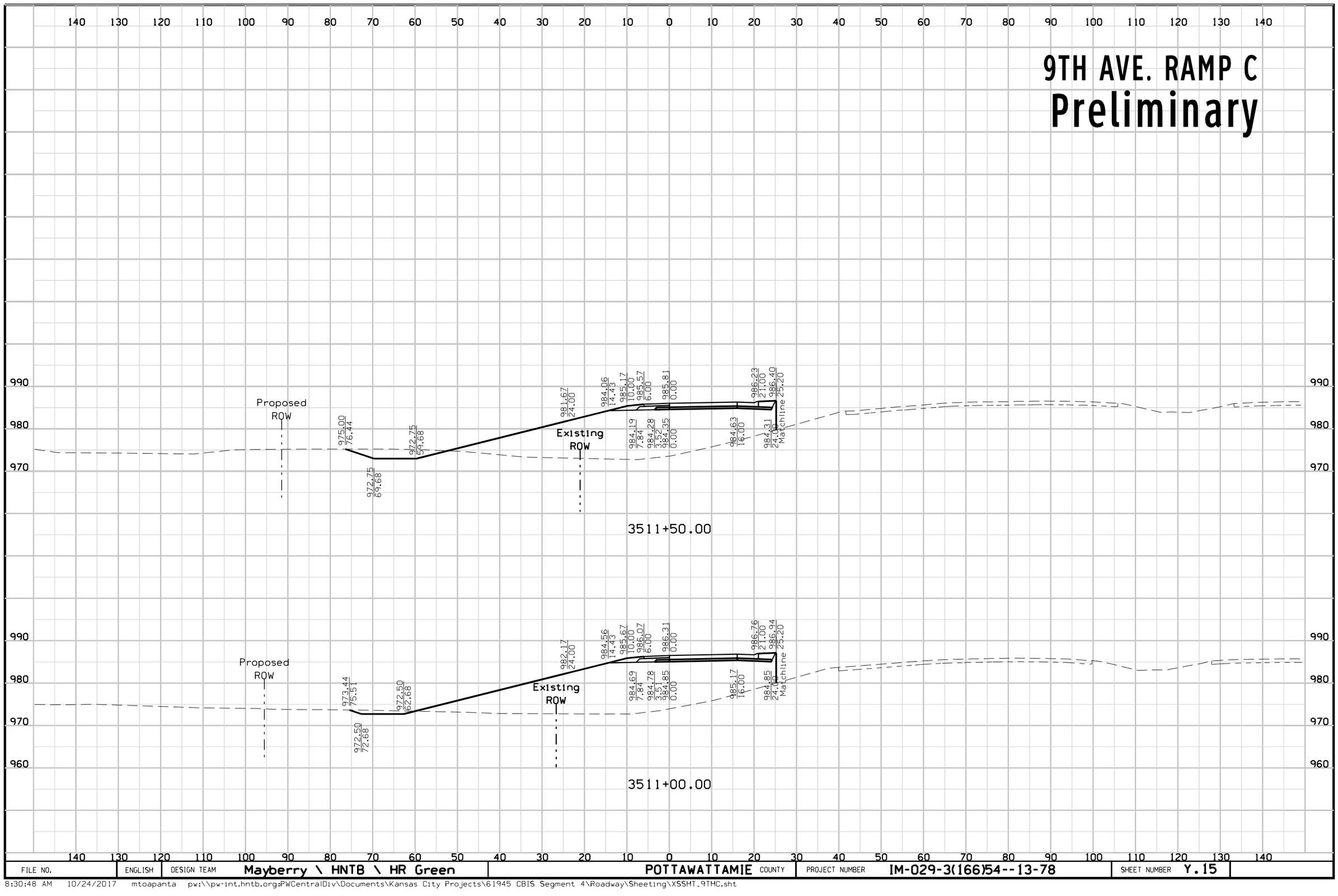
8:30:47 AM 10/24/2017 mtoapanta pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\XSSHT_9THC.sht

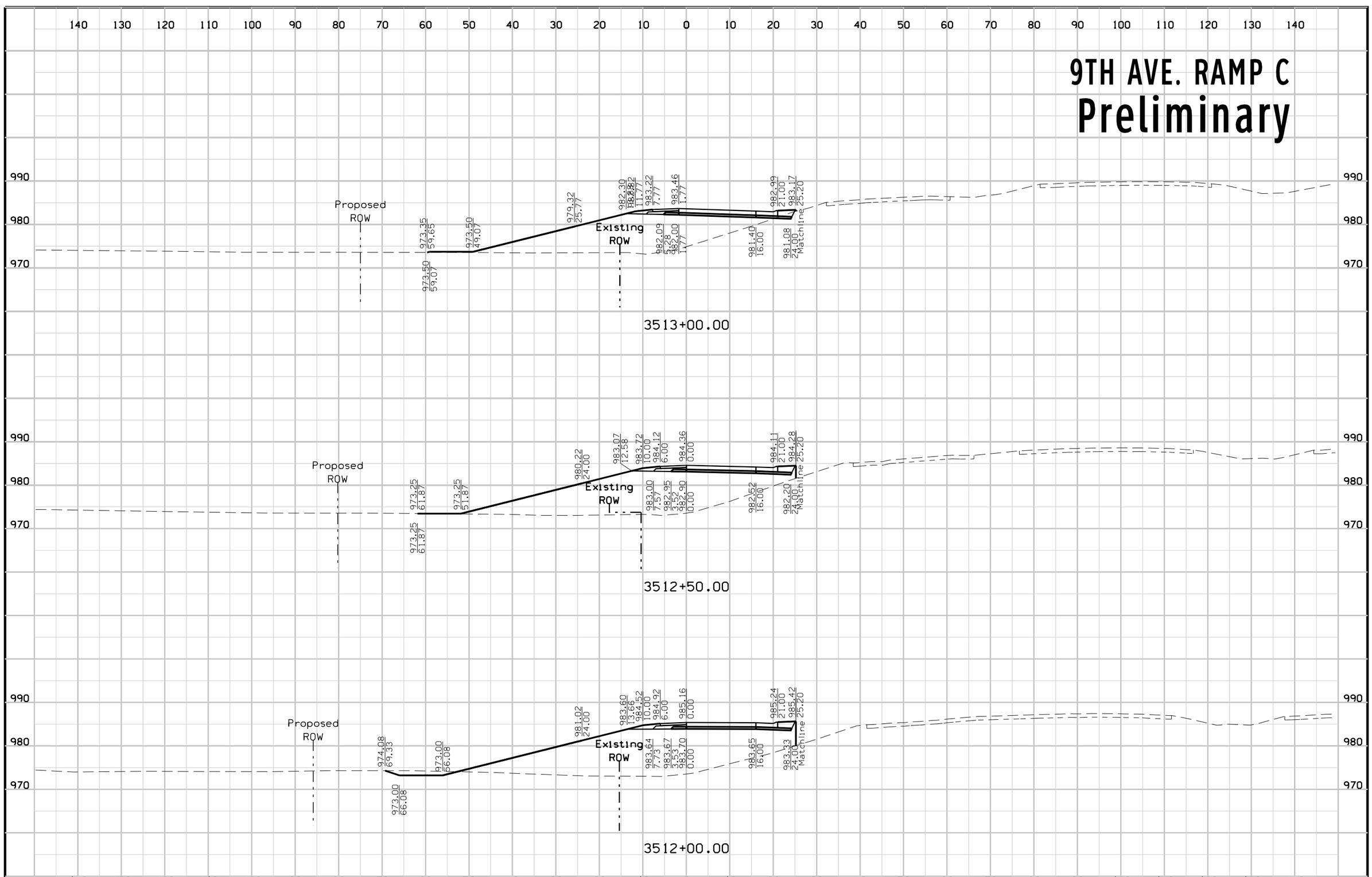
9TH AVE. RAMP C
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER	Y.15

8:30:48 AM 10/24/2017 mtoapanta pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\XSSHT_9THC.sht

9TH AVE. RAMP C
Preliminary



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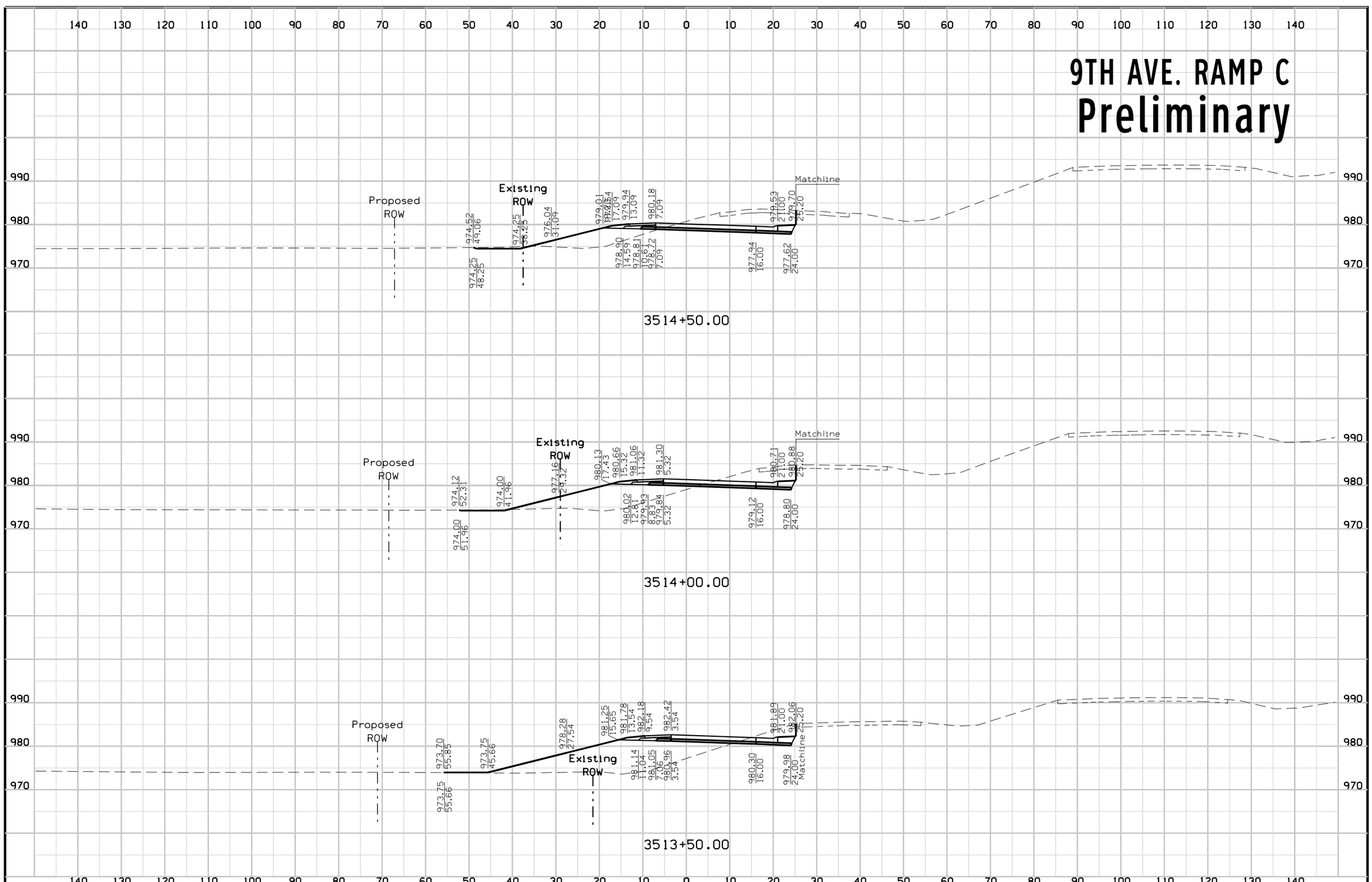
9TH AVE. RAMP C
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER	Y.17

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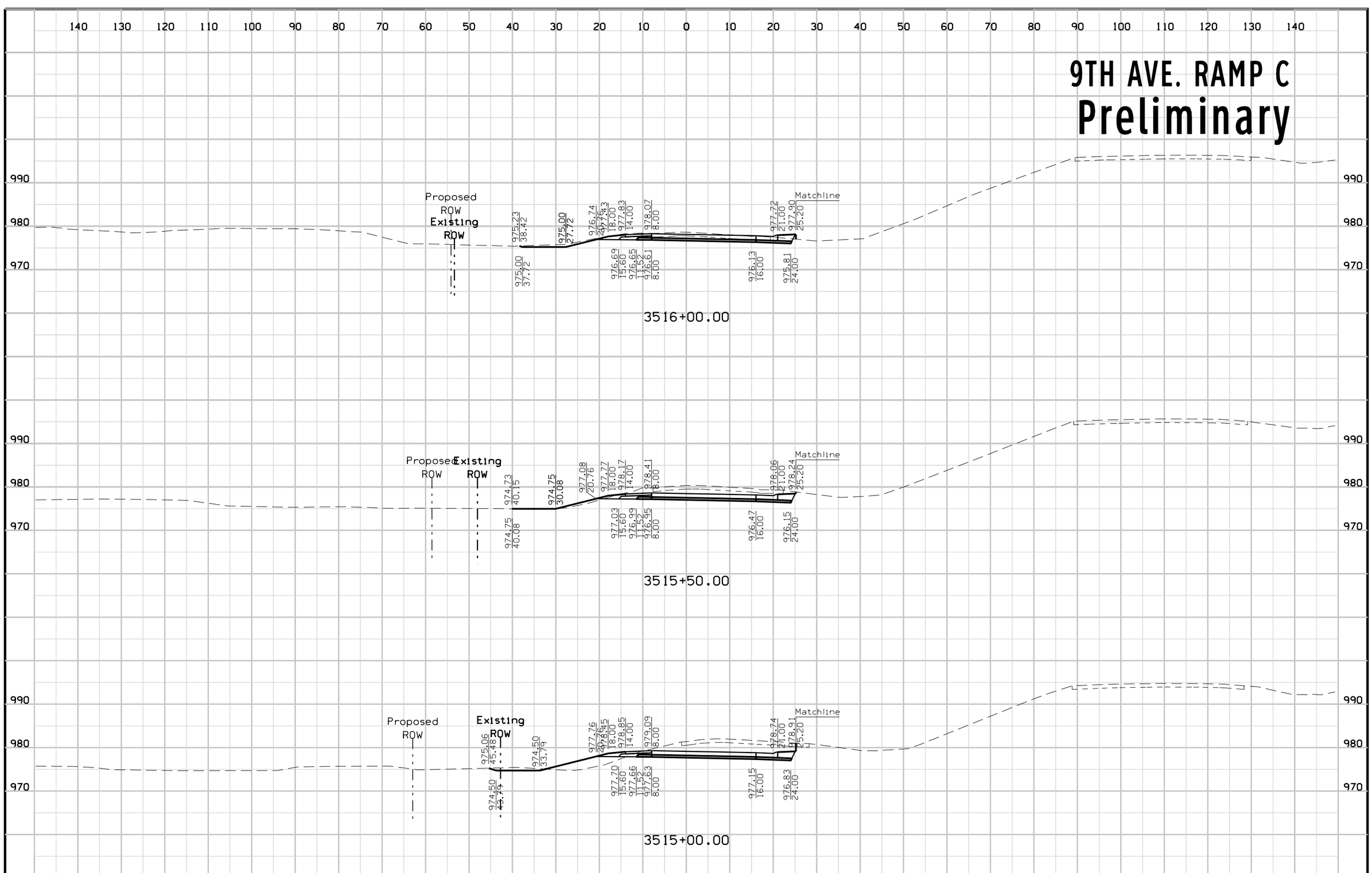
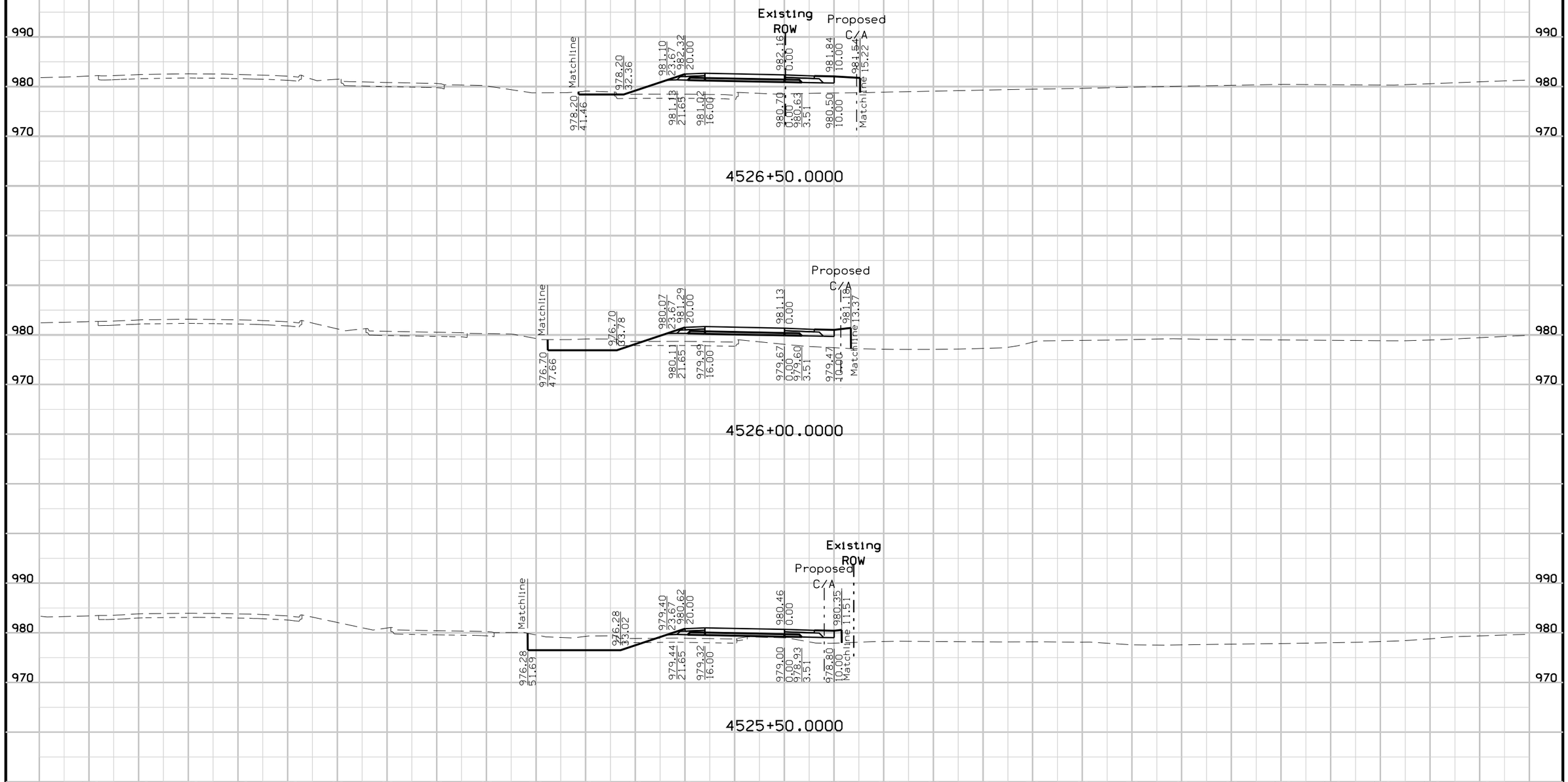
9TH AVE. RAMP C
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER	Y.18

8:30:51 AM 10/24/2017 mtoapanta pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\XSSHT_9THC.sht

9TH AVE. RAMP D
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER	Y.19

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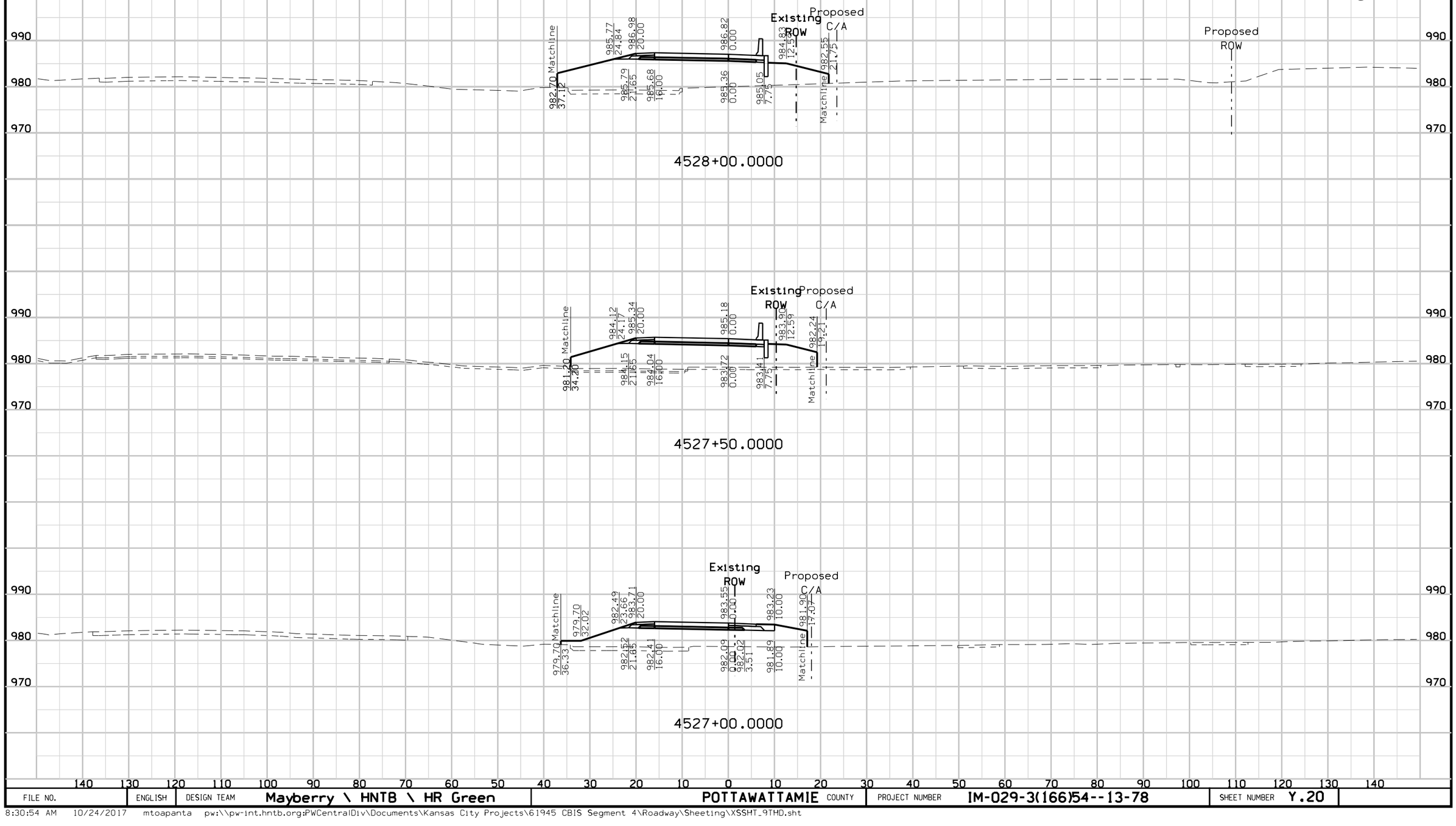
9TH AVE. RAMP D
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER	Y.20

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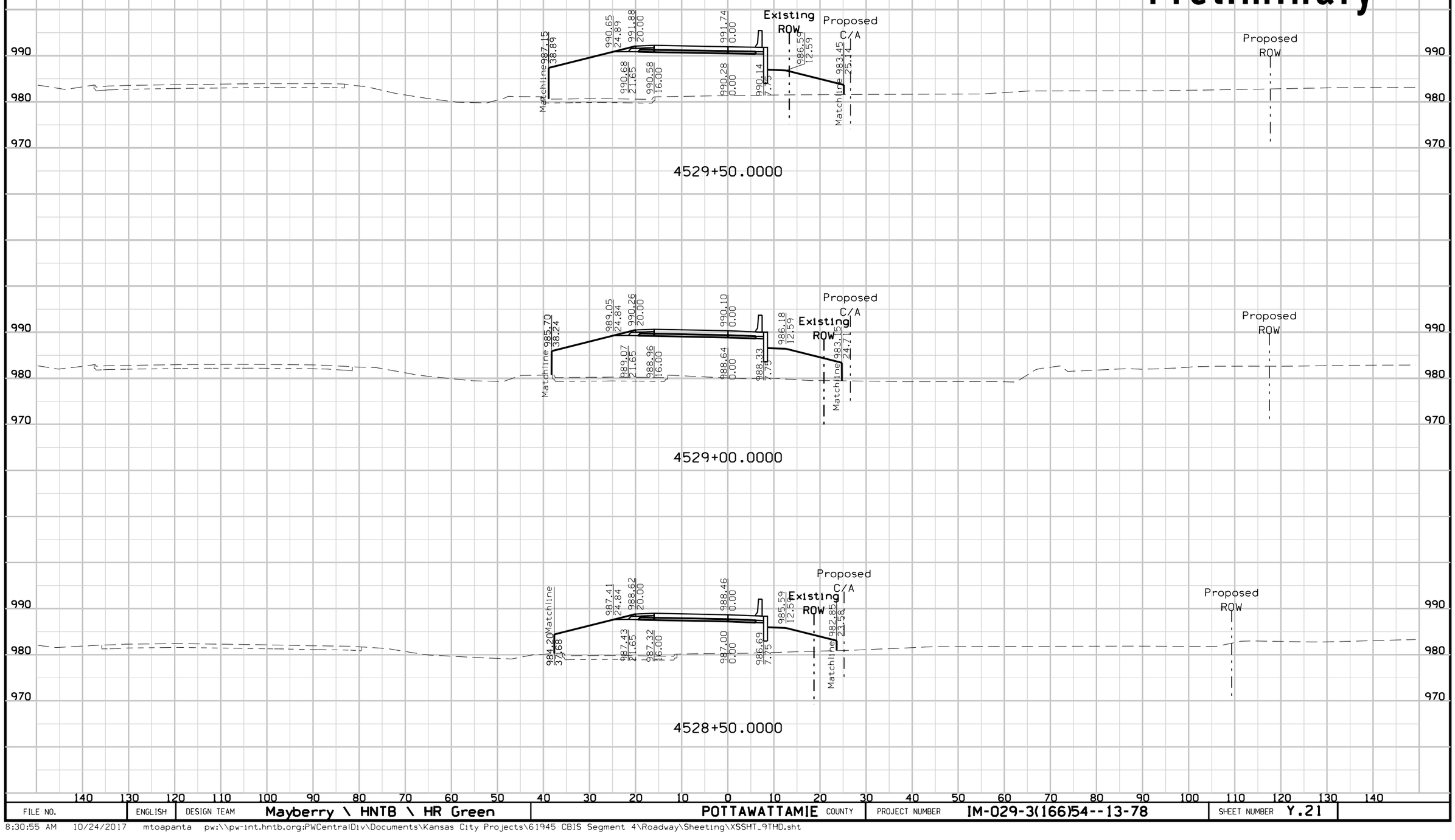
9TH AVE. RAMP D

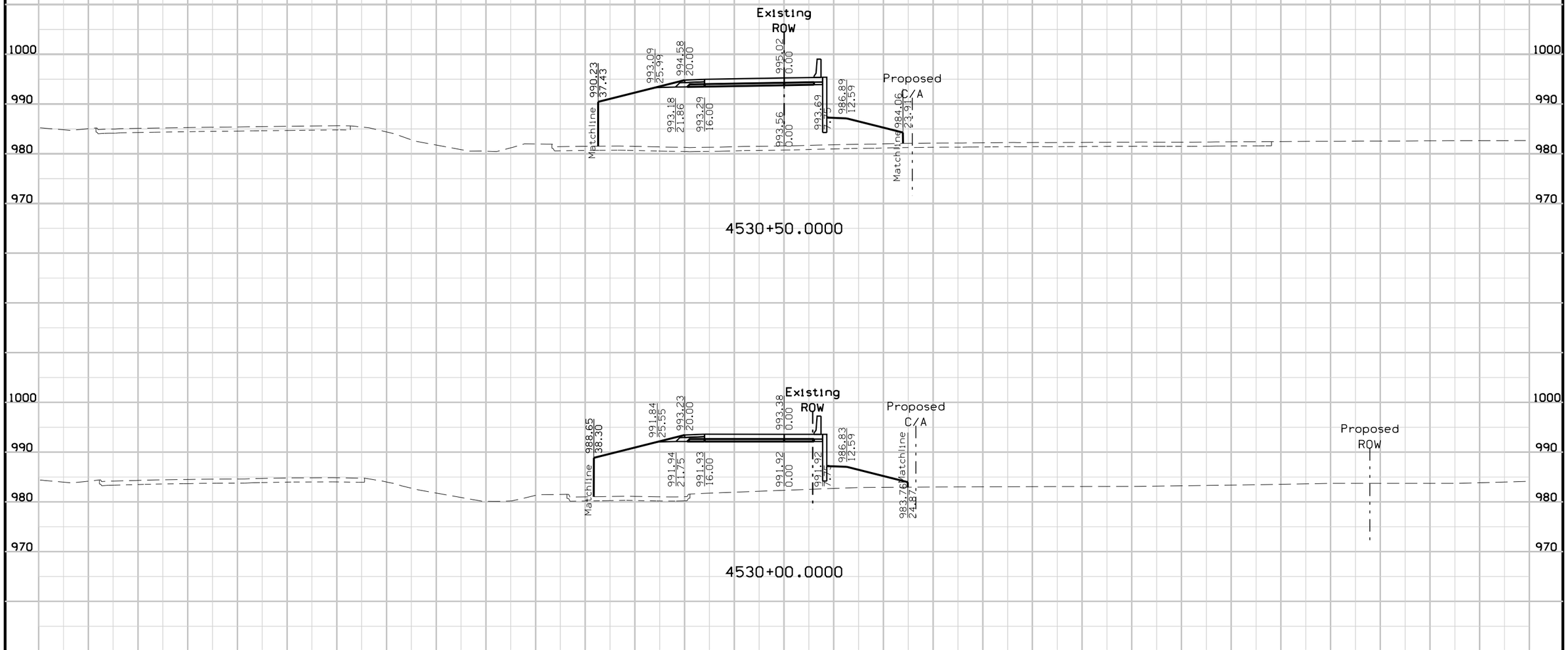
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER	Y.21

8:30:55 AM 10/24/2017 mtoapanta pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\XSSHT_9THD.sht

9TH AVE. RAMP D
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER	Y.22

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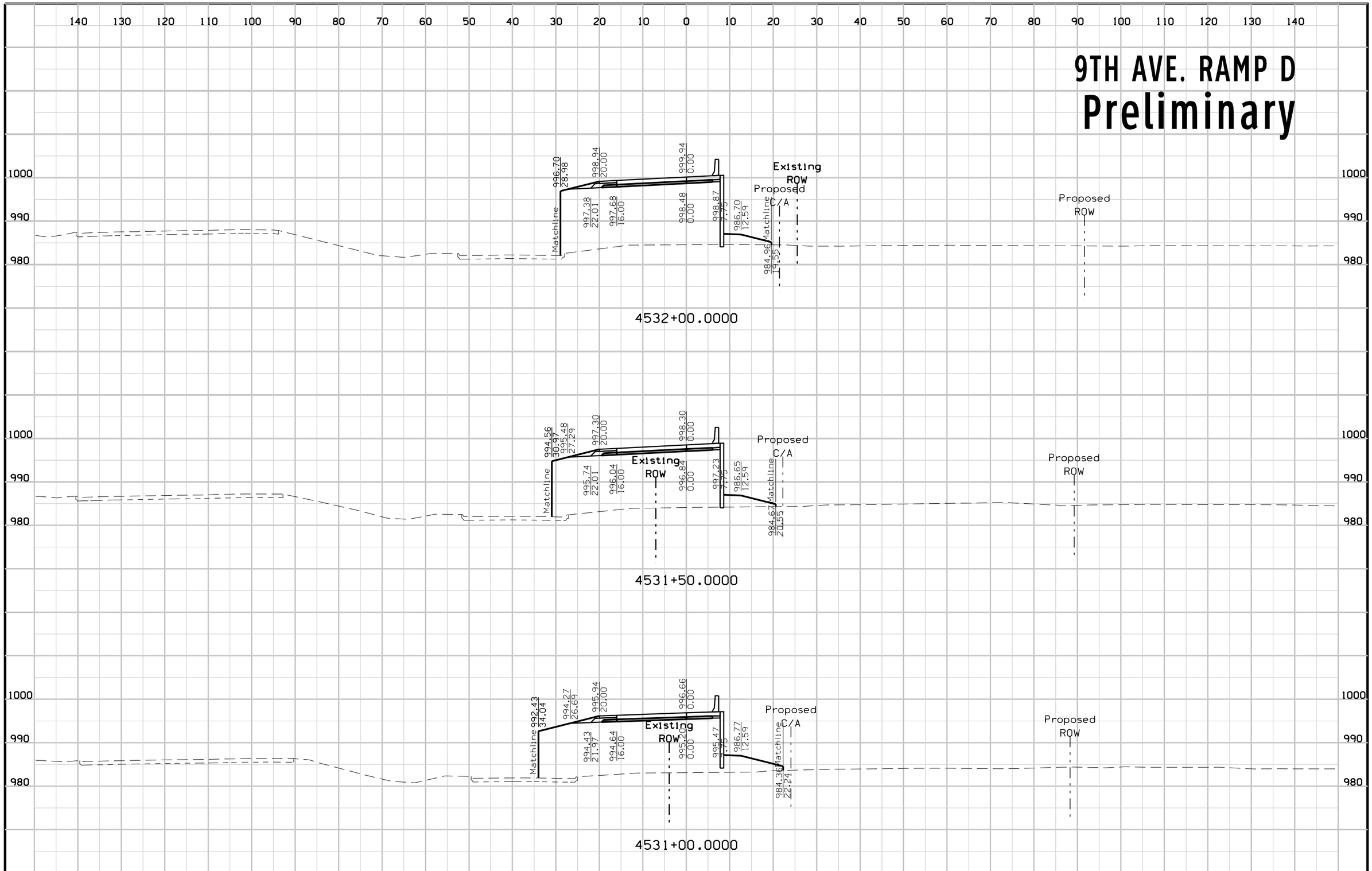
9TH AVE. RAMP D
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER	Y.23

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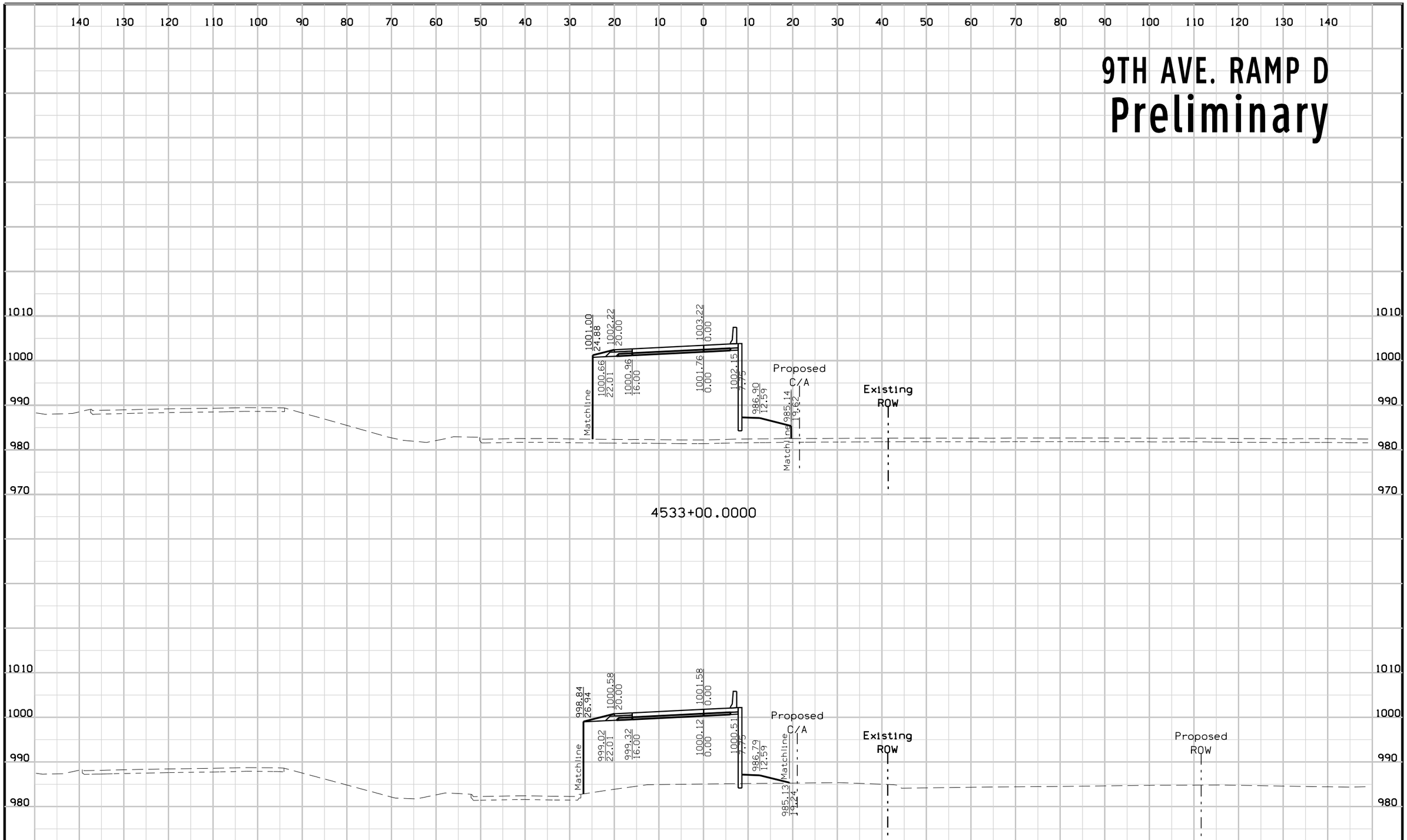
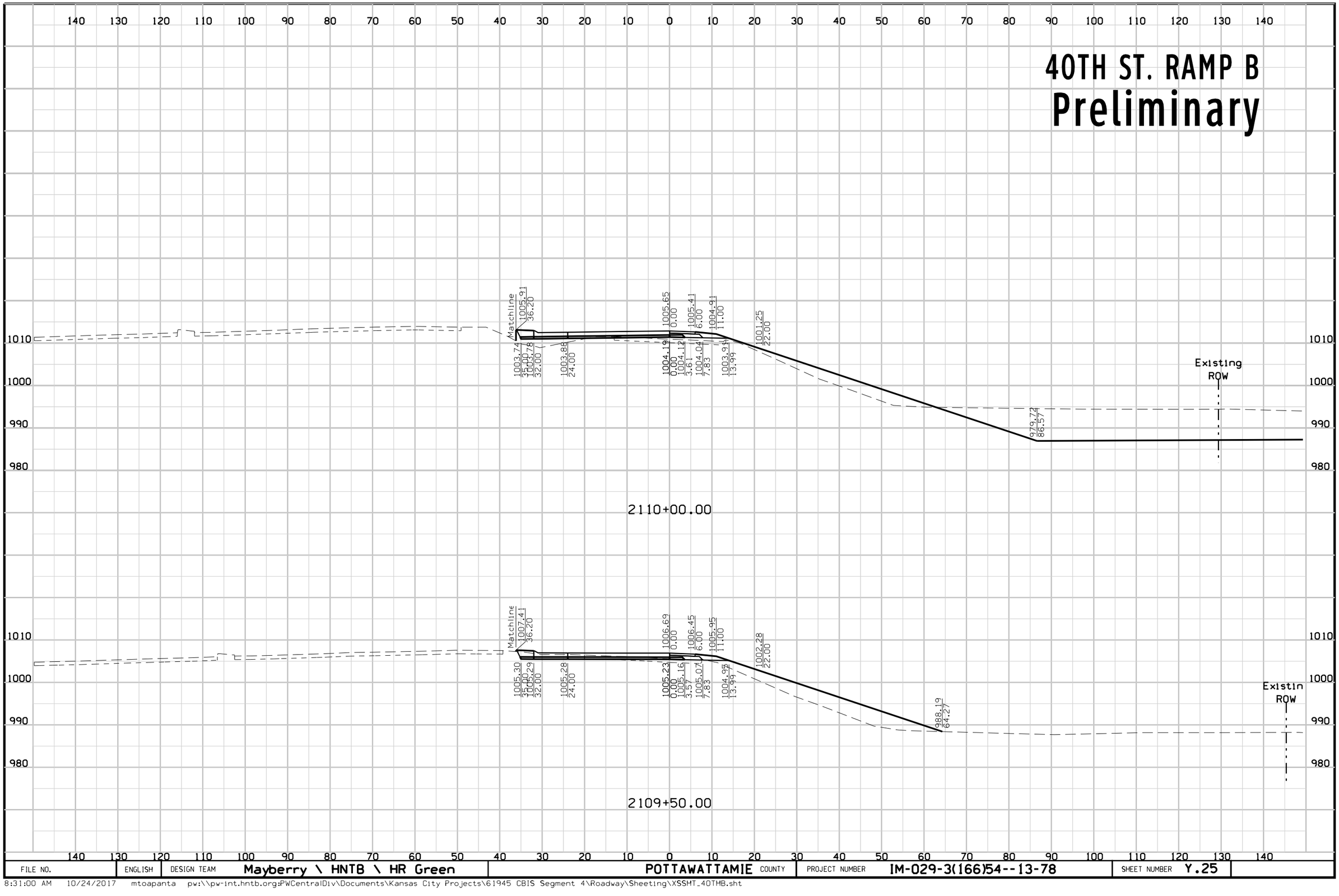
9TH AVE. RAMP D
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER	Y.24

8:30:58 AM 10/24/2017 mtoapanta pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\XSSHT_9THD.sht

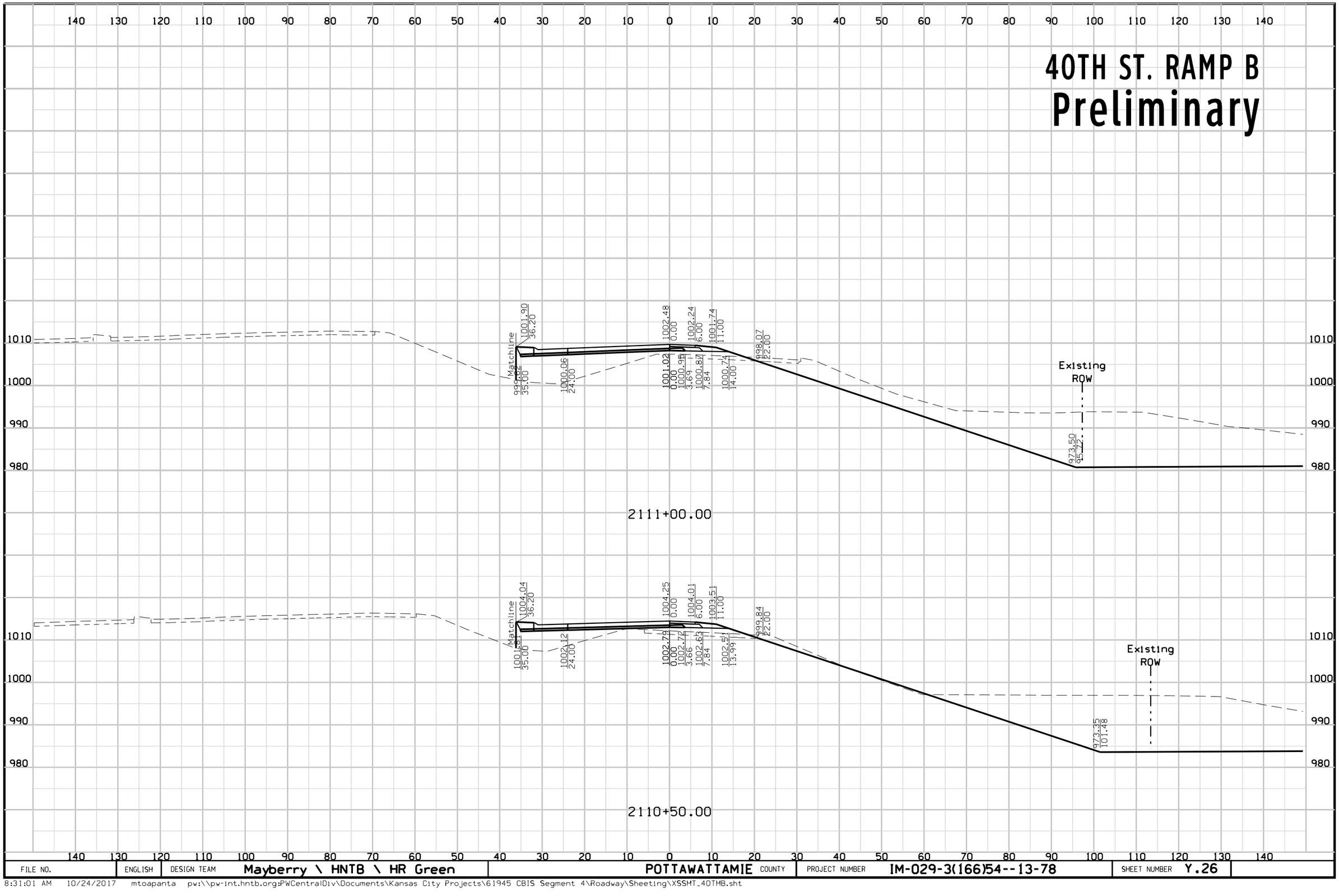
40TH ST. RAMP B
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER	Y.25

8:31:00 AM 10/24/2017 mtoapanta pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\XSSHT_40THB.sht

40TH ST. RAMP B
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER	Y.26

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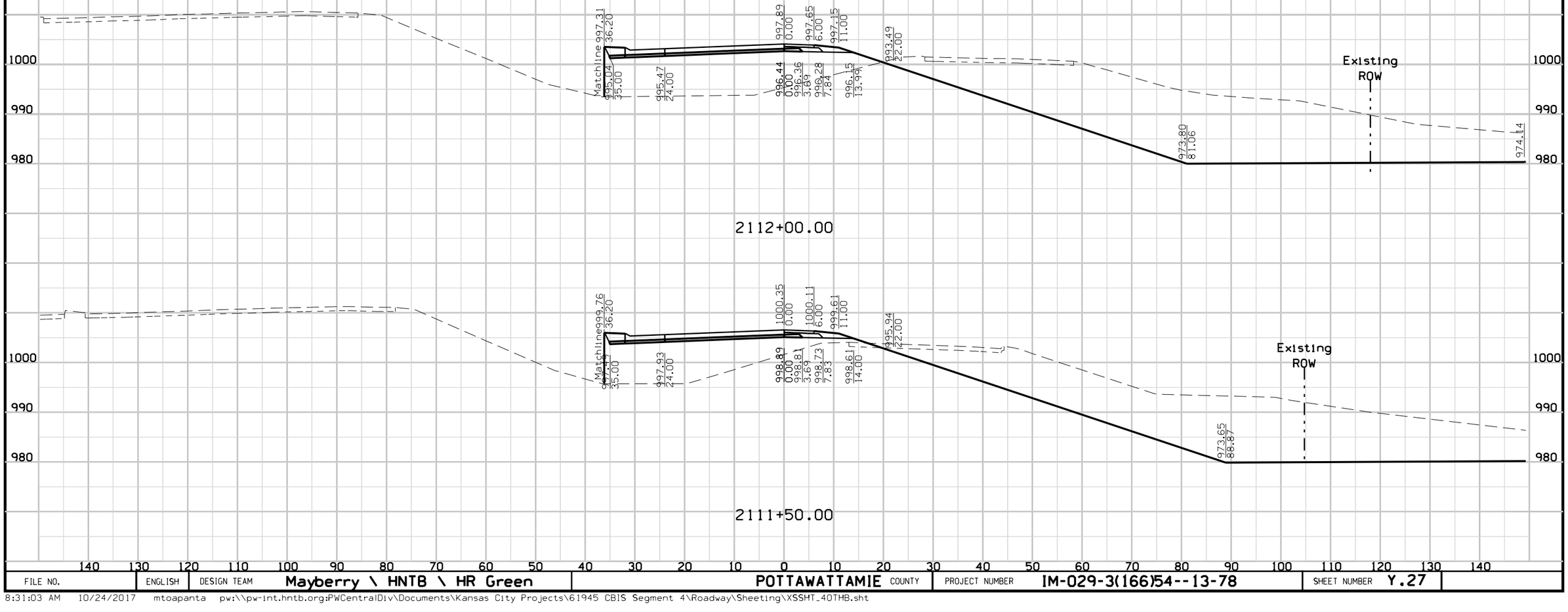
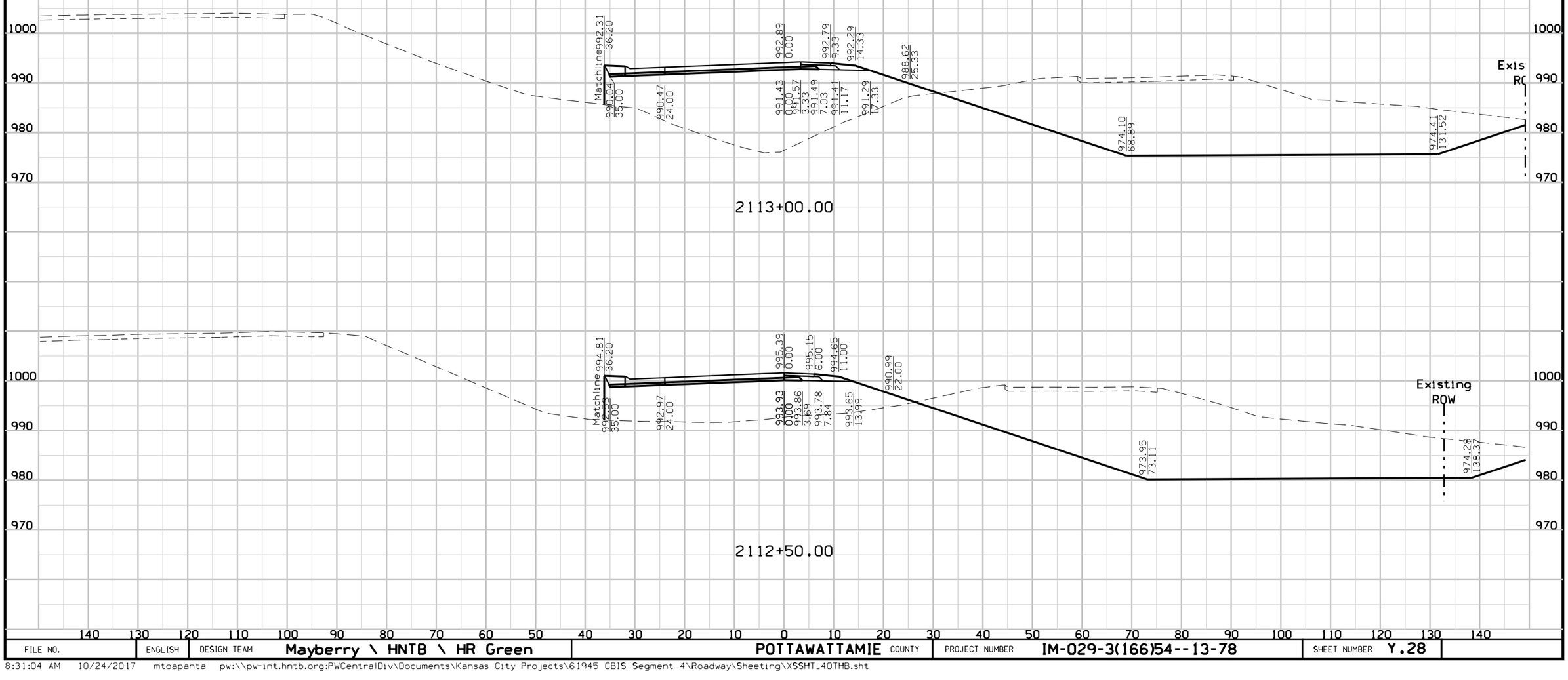
40TH ST. RAMP B
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER	Y.27

8:31:03 AM 10/24/2017 mtoapanta pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\XSSHT_40THB.sht

40TH ST. RAMP B
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER	Y.28

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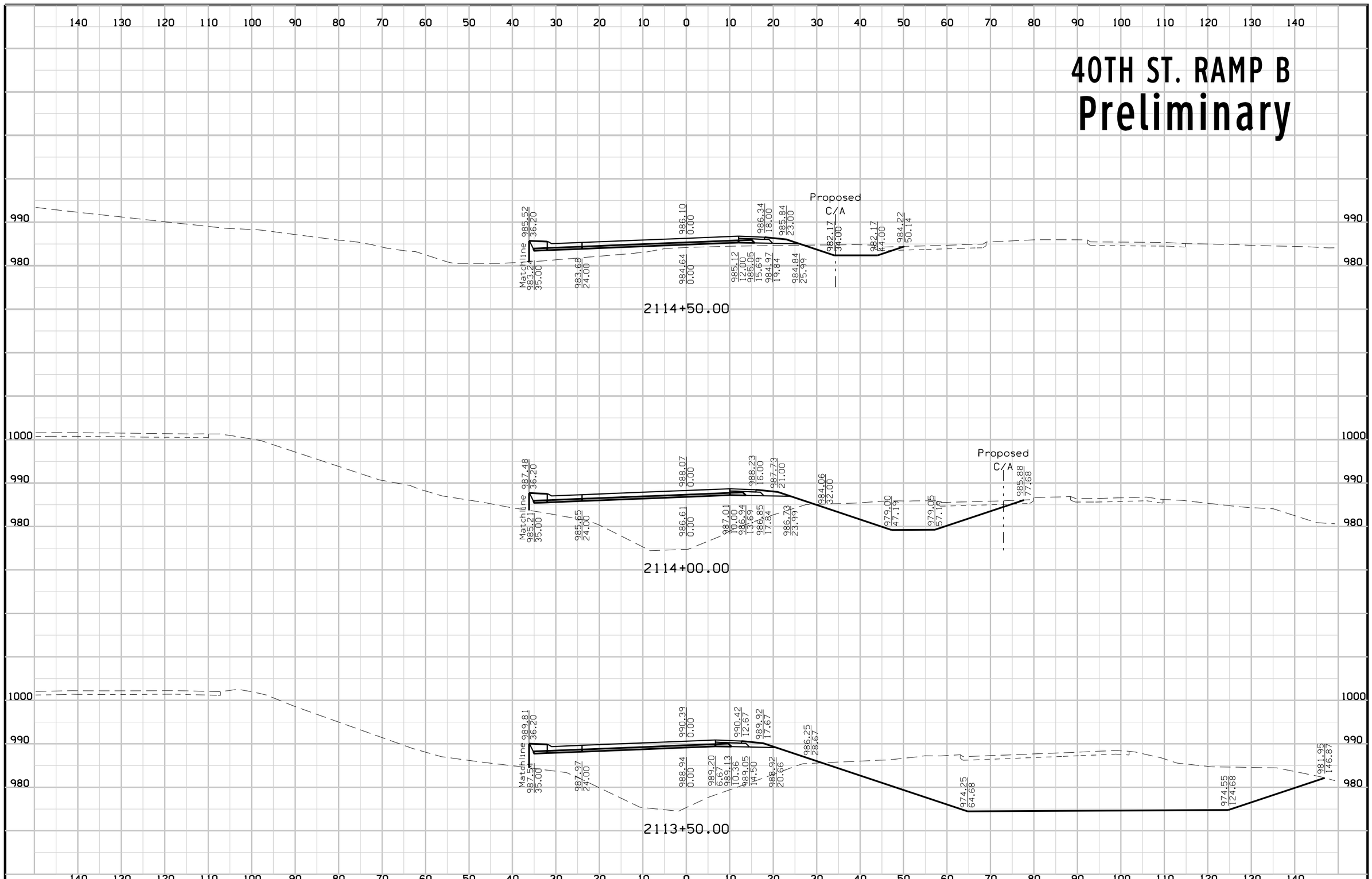
40TH ST. RAMP B
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER	Y.29

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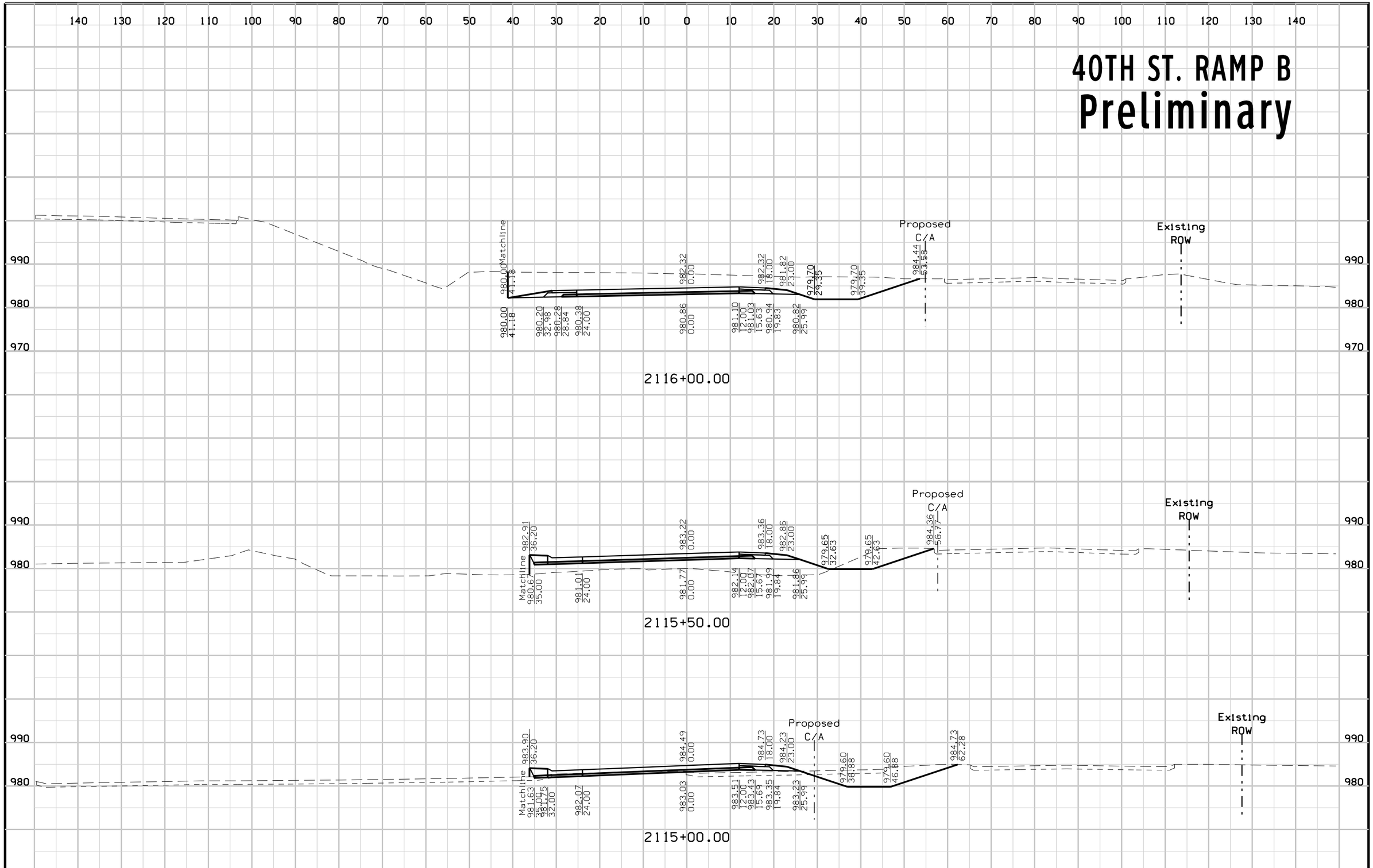
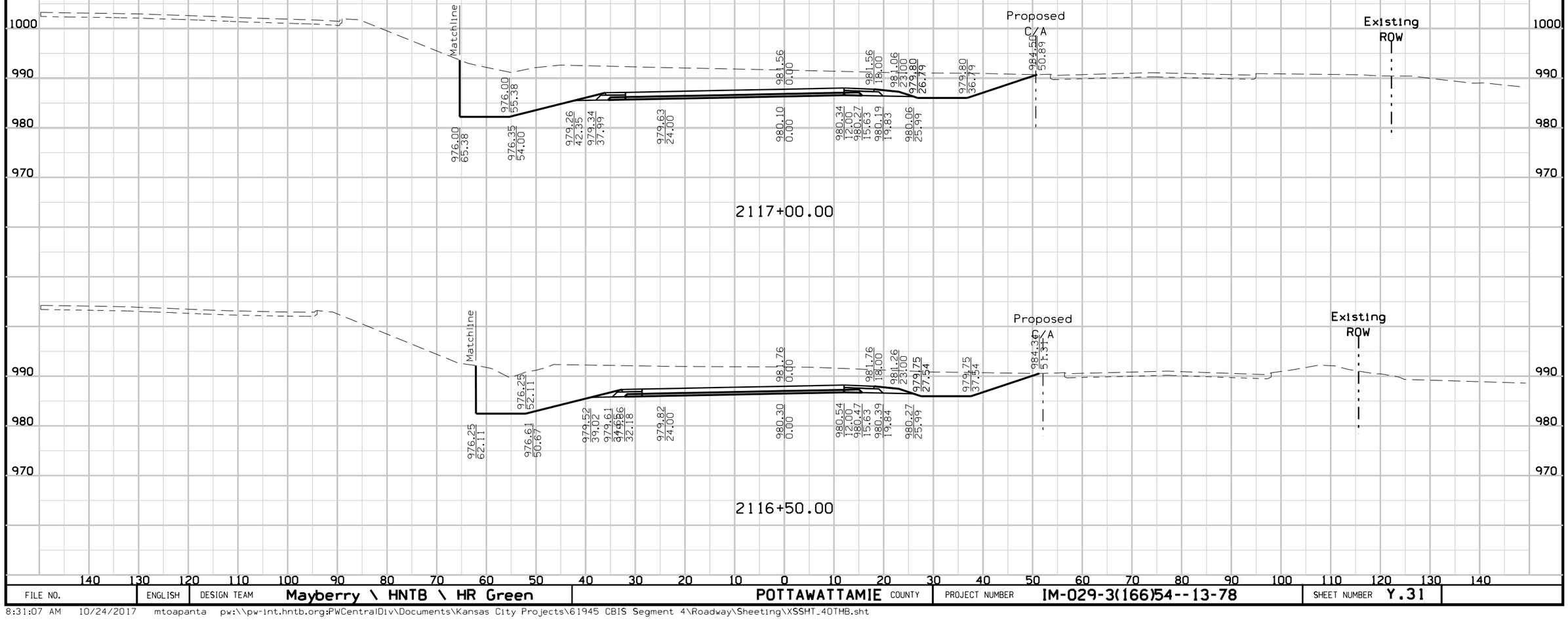
40TH ST. RAMP B
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER	Y.30

8:31:06 AM 10/24/2017 mtoapanta pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\XSSHT_40THB.sht

40TH ST. RAMP B
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER	Y.31

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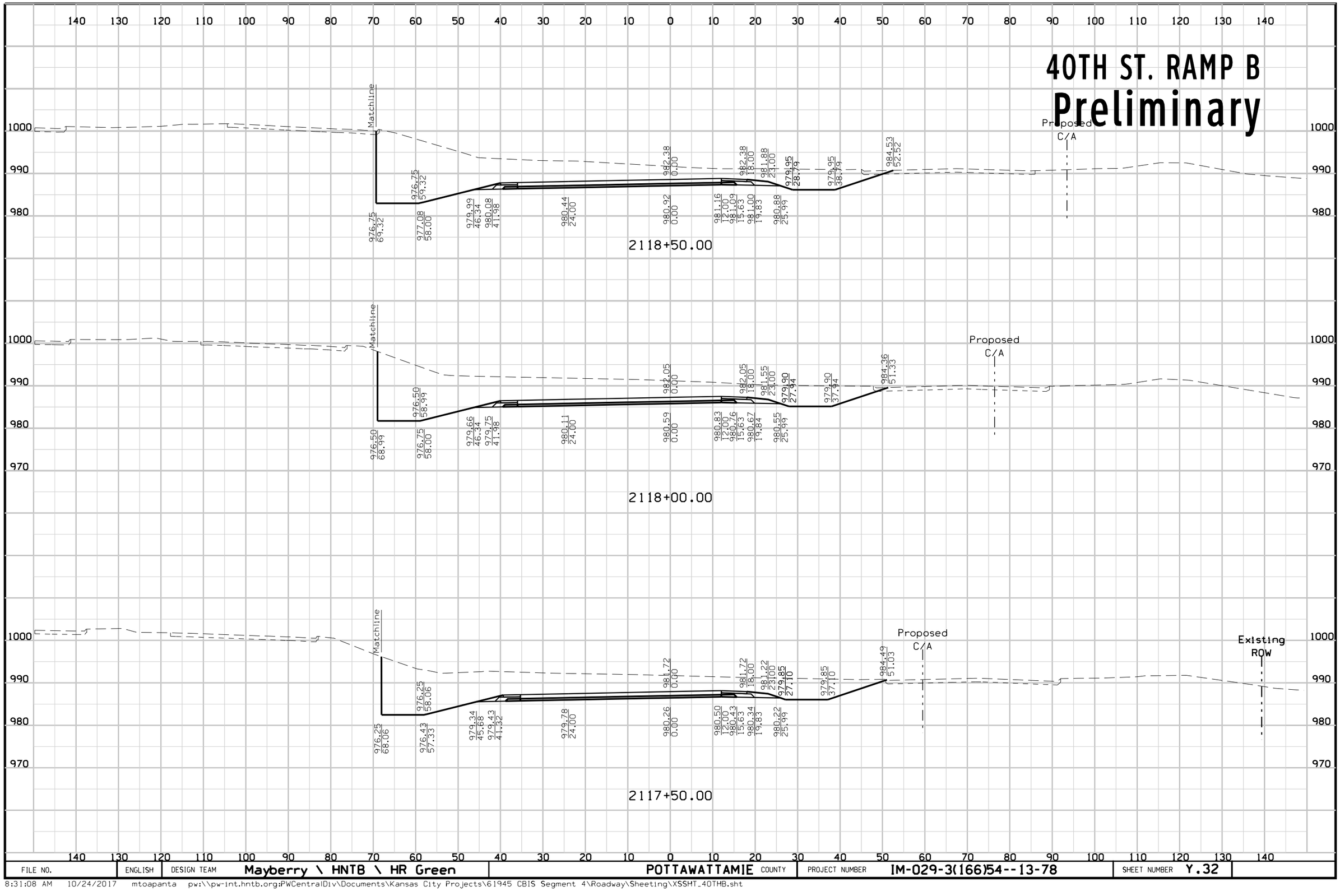
40TH ST. RAMP B
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER	Y.32

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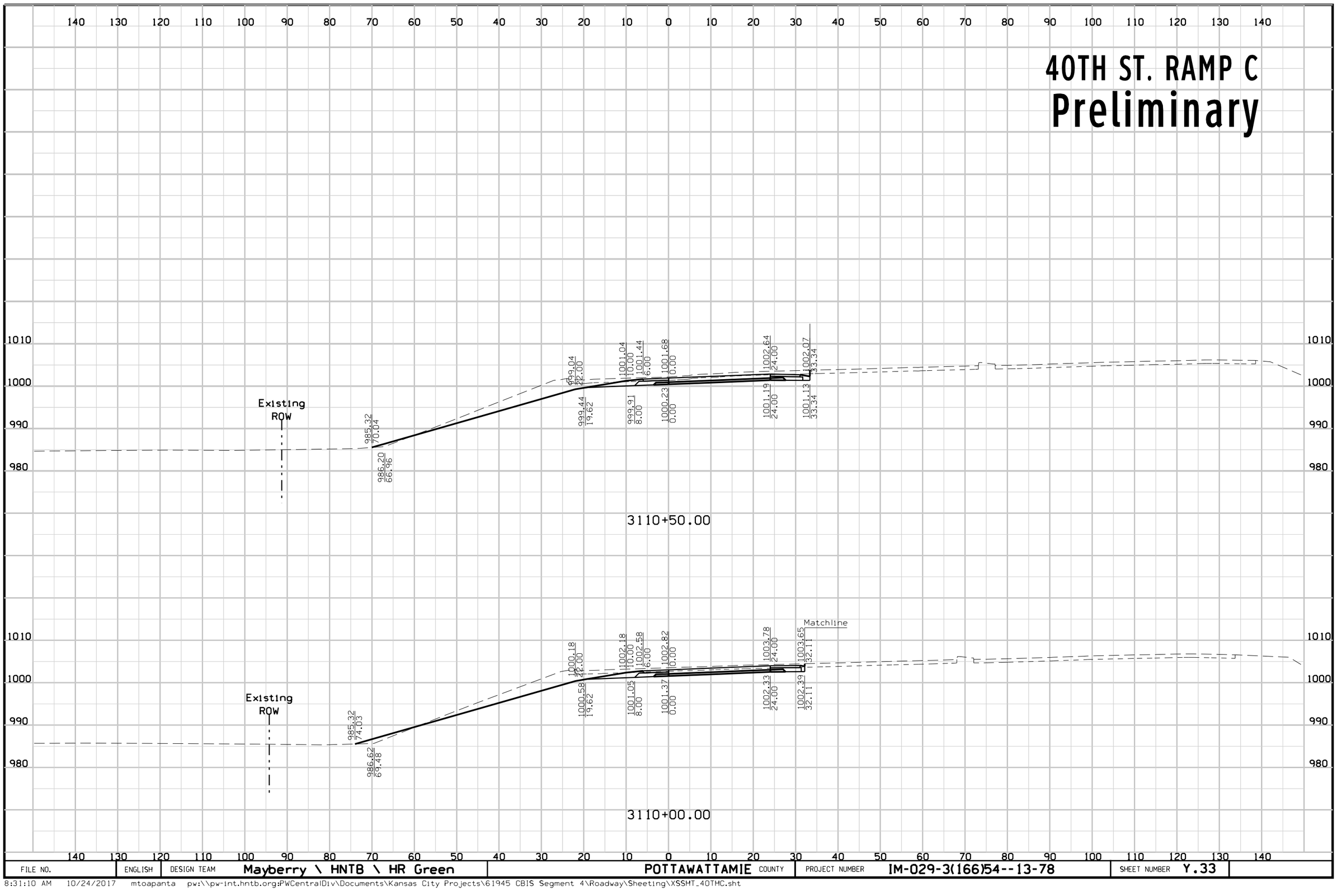
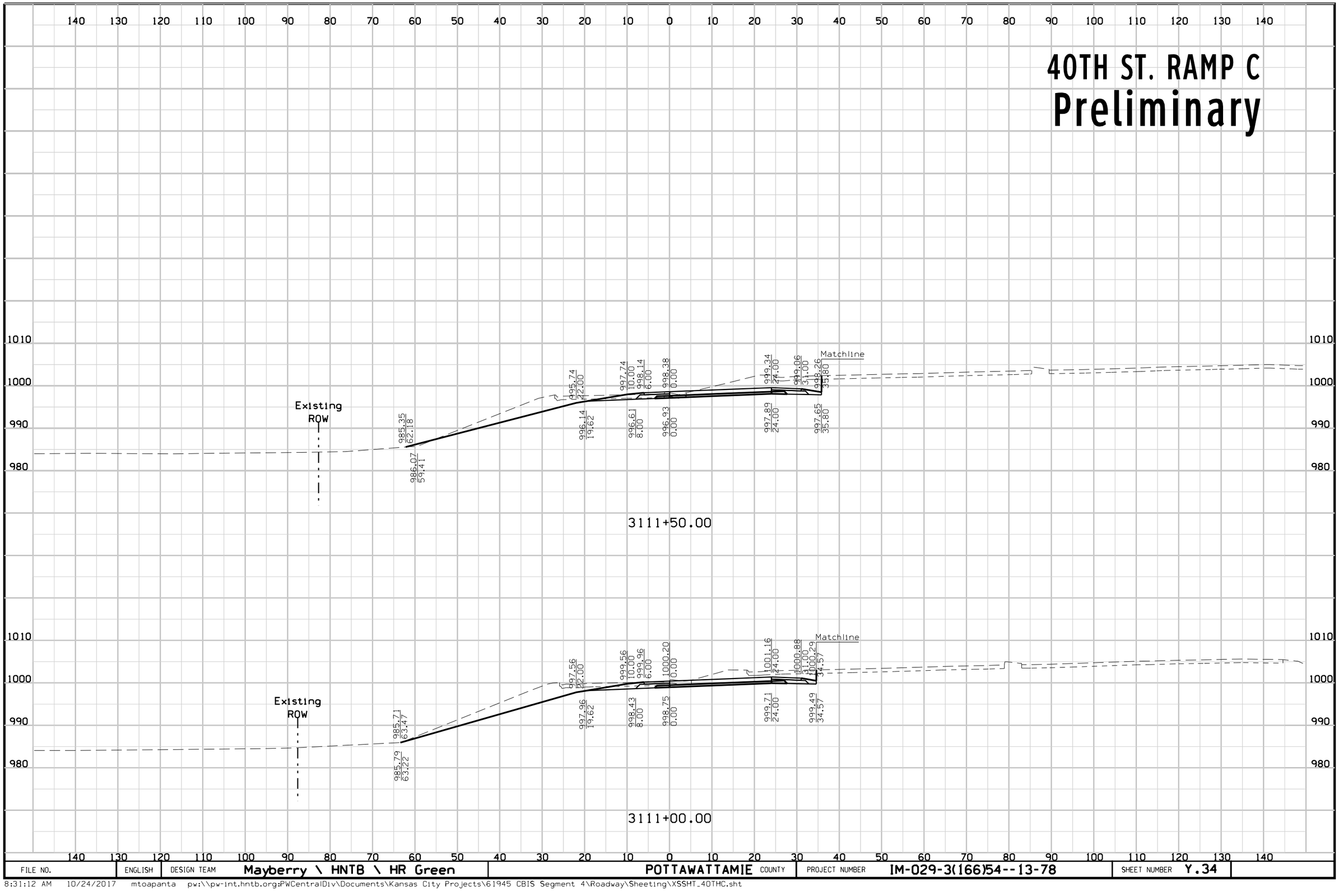
40TH ST. RAMP C
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER	Y.33

8:31:10 AM 10/24/2017 mtoapanta pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\XSSHT_40THC.sht

40TH ST. RAMP C
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER	Y.34

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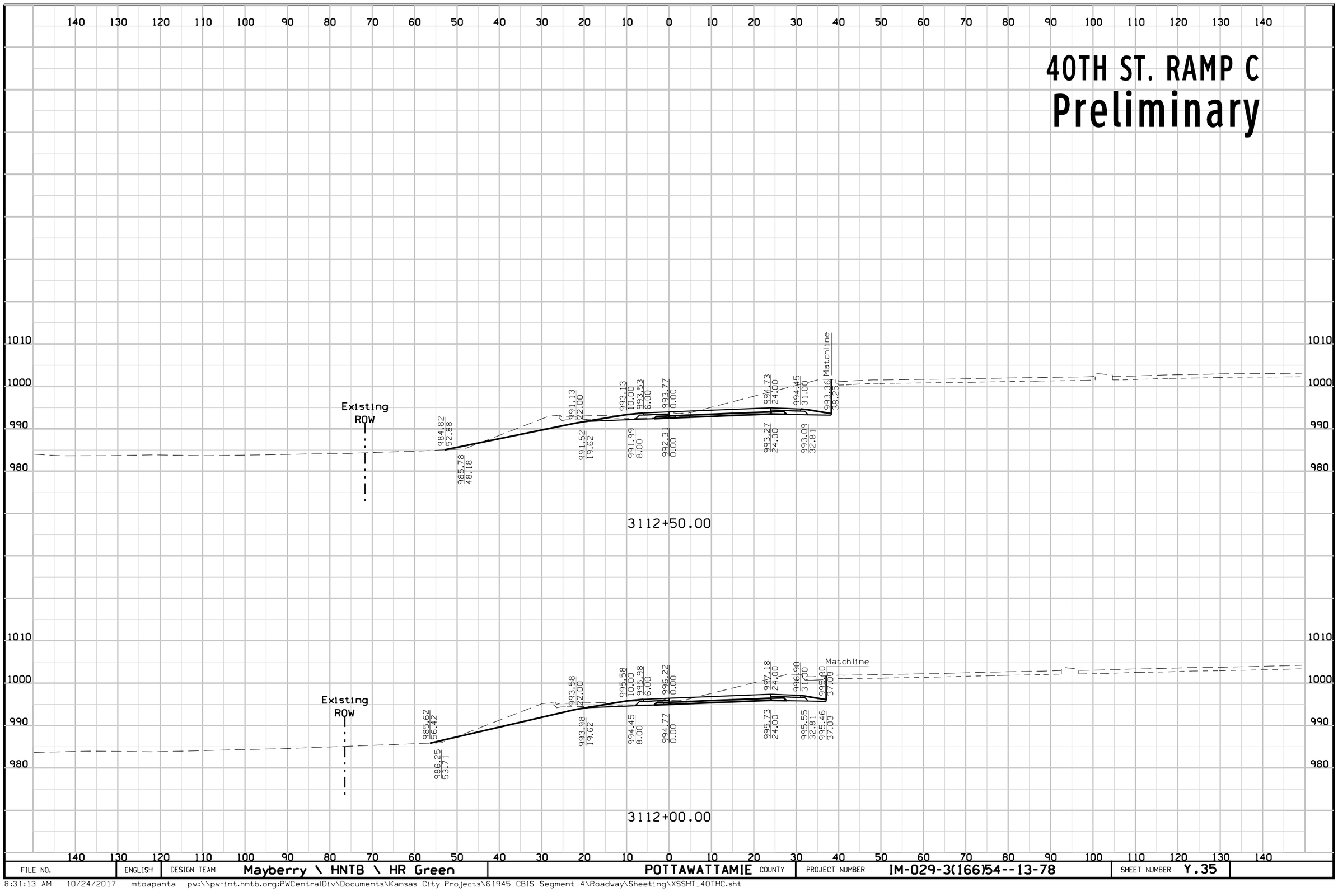
40TH ST. RAMP C
Preliminary

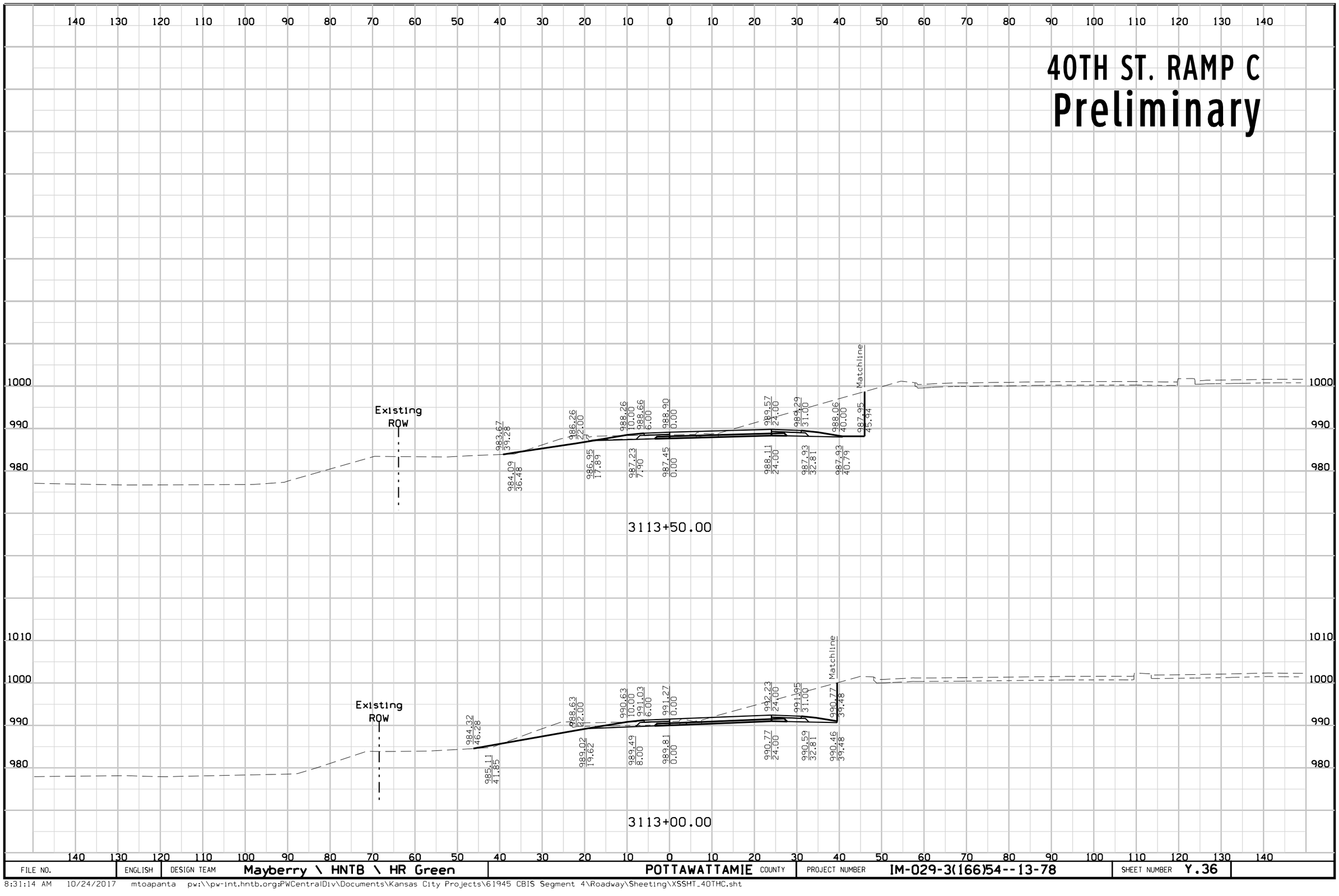


FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER	Y.35

8:31:13 AM 10/24/2017 mtoapanta pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\XSSHT_40THC.sht

40TH ST. RAMP C

Preliminary



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER	Y.36

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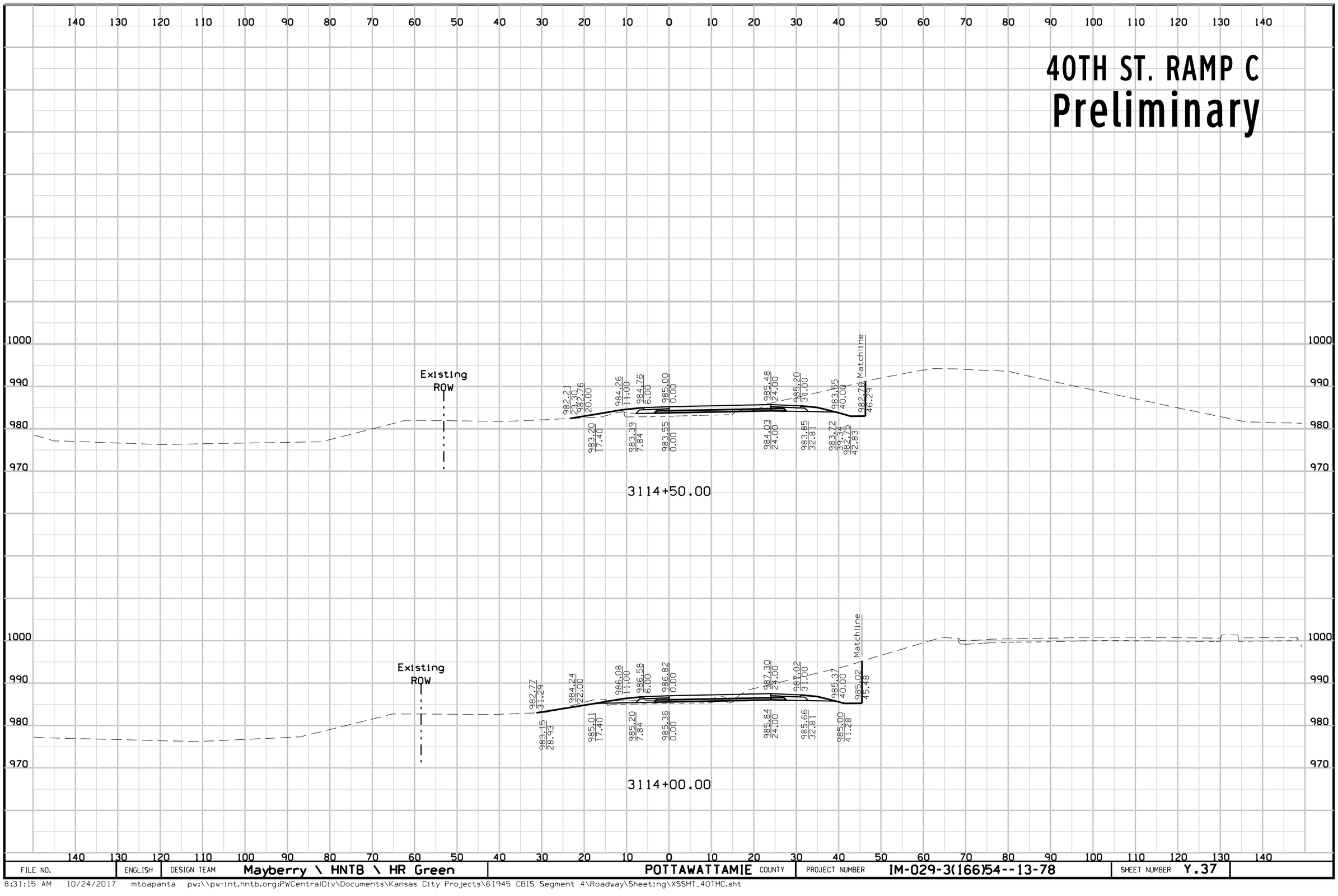
40TH ST. RAMP C
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER	Y.37

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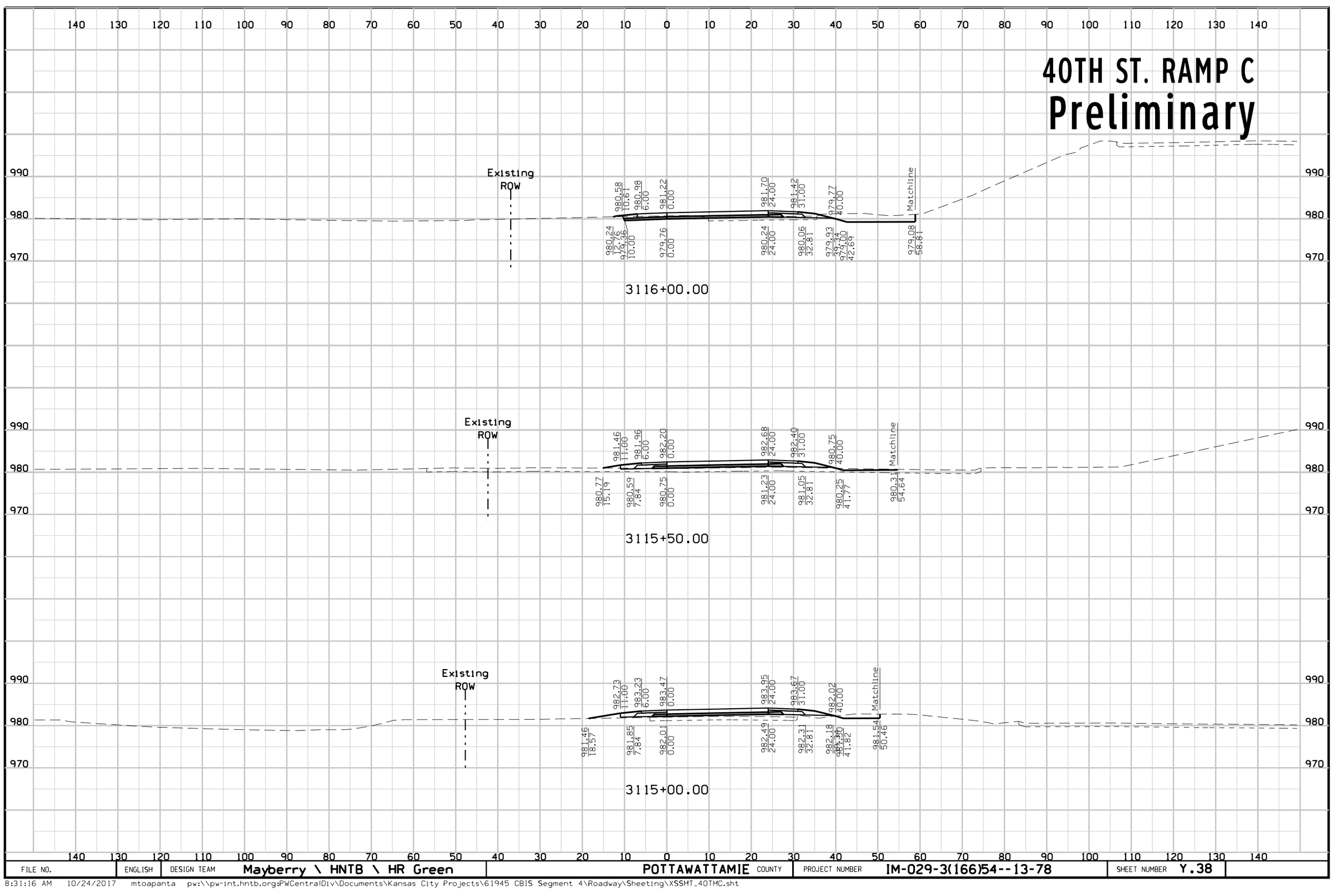
Preliminary

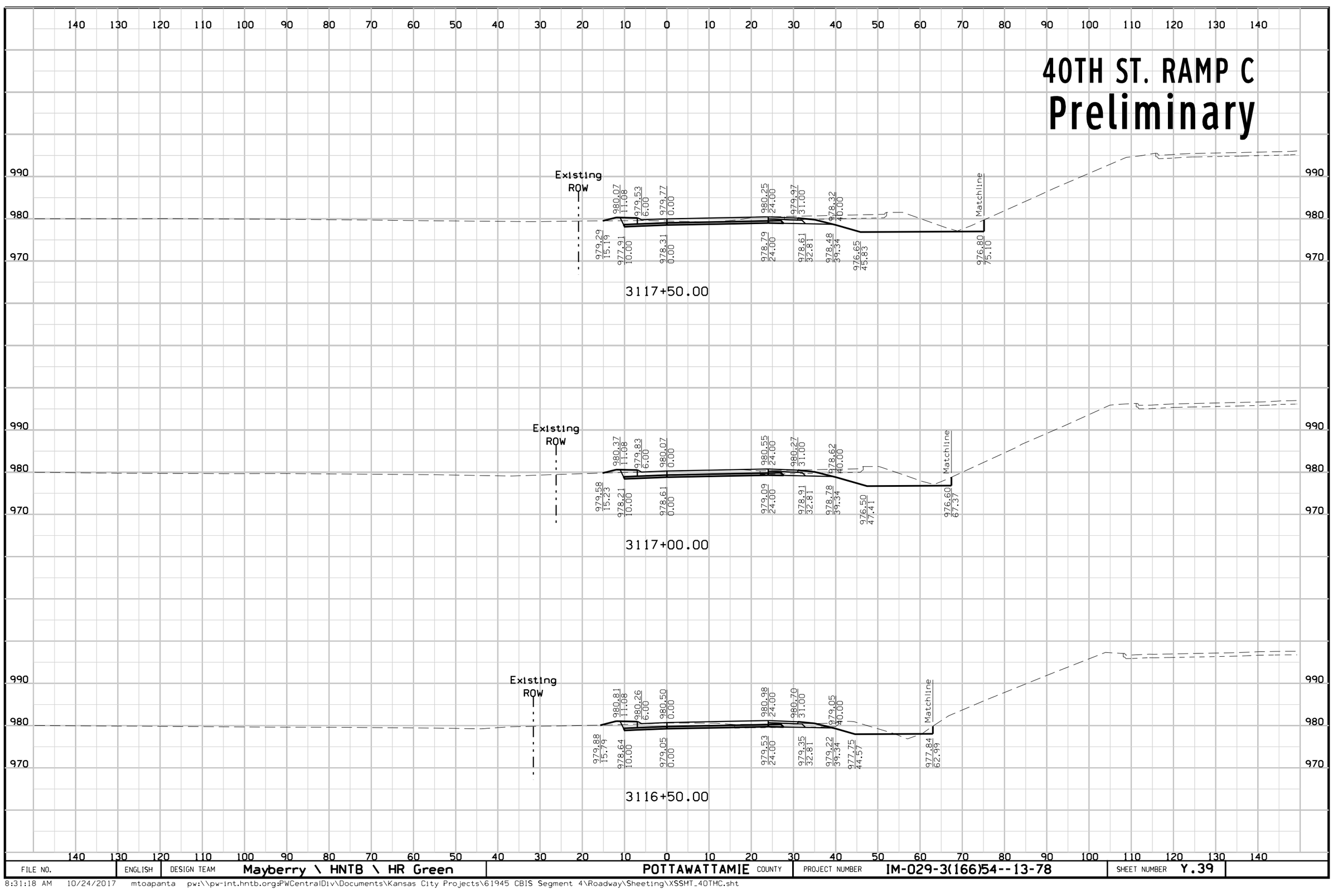


FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER Y.38

8:31:16 AM 10/24/2017 mtoapanta pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\XSSHT_40THC.sht

40TH ST. RAMP C

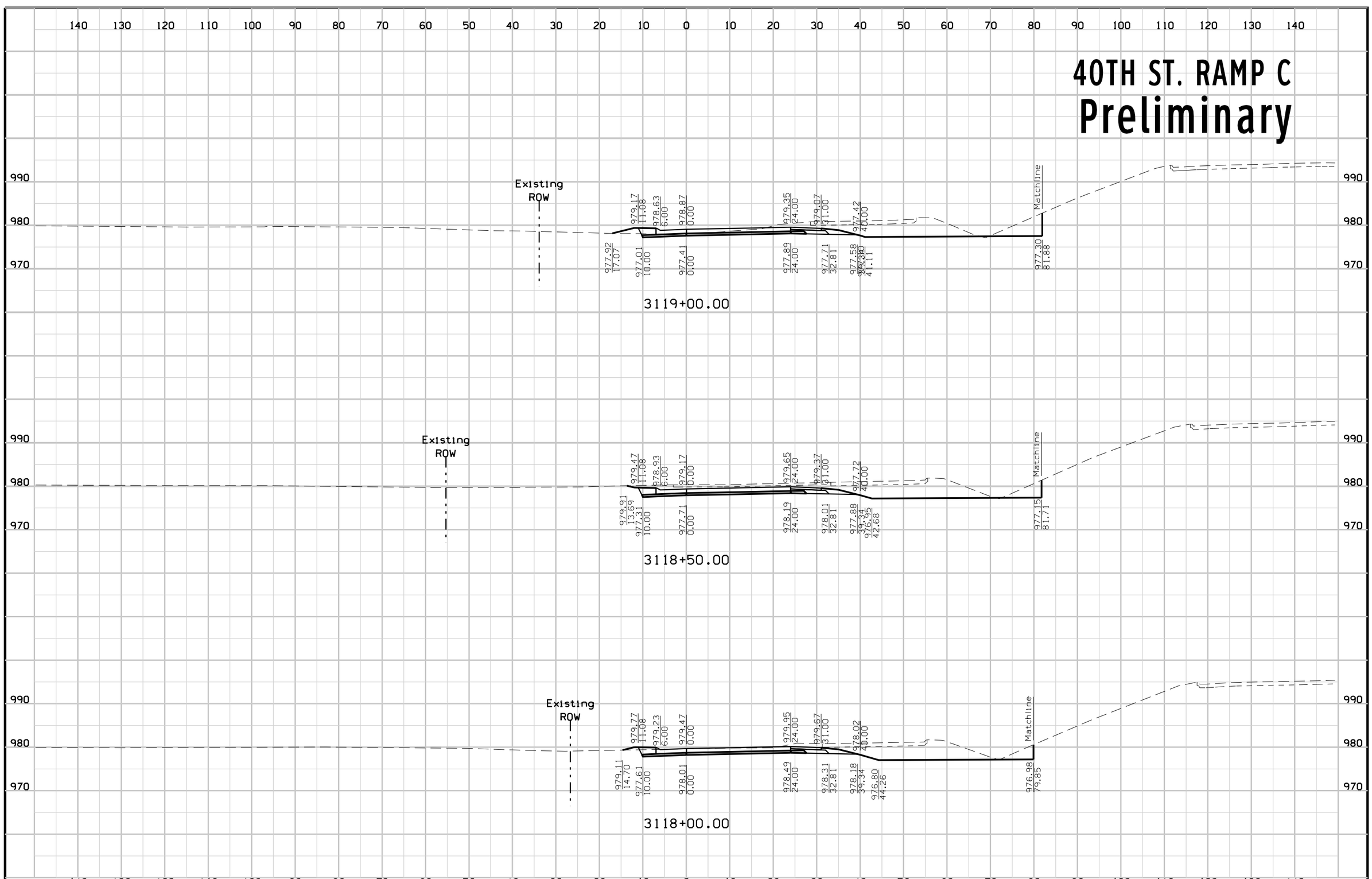
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER	Y.39

8:31:18 AM 10/24/2017 mtoapanta pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\XSSHT_40THC.sht

40TH ST. RAMP C
Preliminary

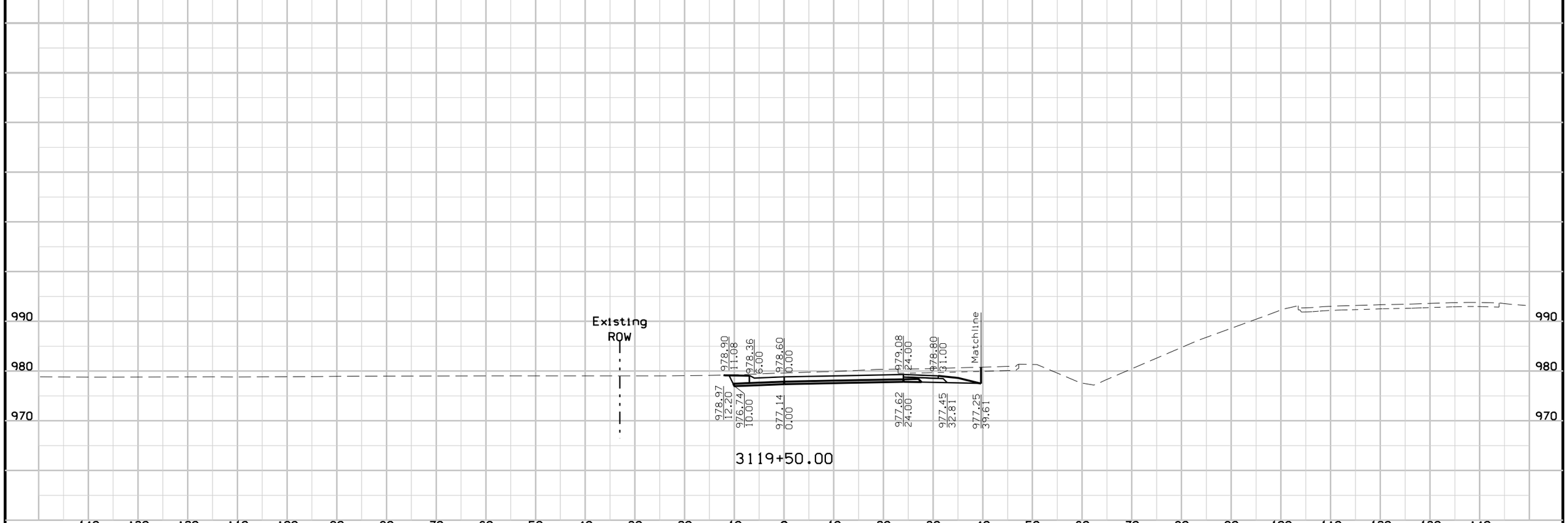


FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER Y.40

8:31:19 AM 10/24/2017 mtoapanta pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\XSSHT_40THC.sht

40TH ST. RAMP C

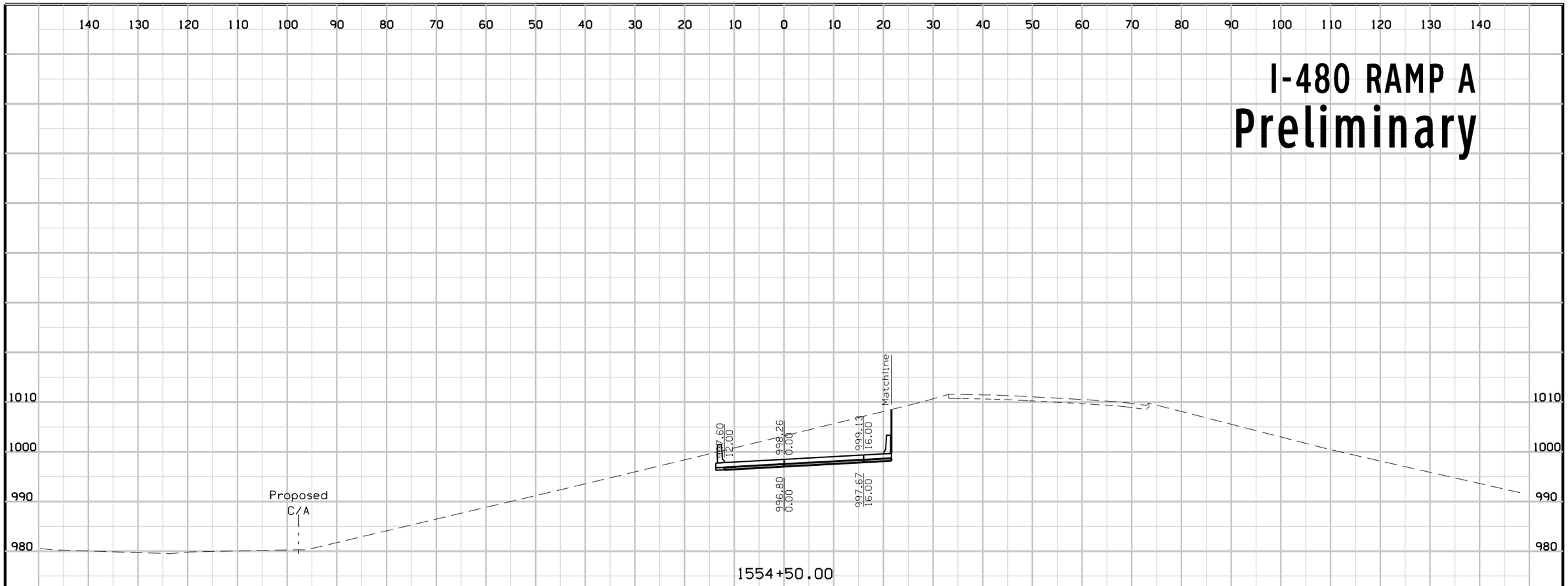
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER	Y.41

8:31:20 AM 10/24/2017 mtoapanta pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\XSSHT_40THC.sht

I-480 RAMP A
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER	Y.42

8:31:22 AM 10/24/2017 mtoapanta pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\XSSHT_480A.sht

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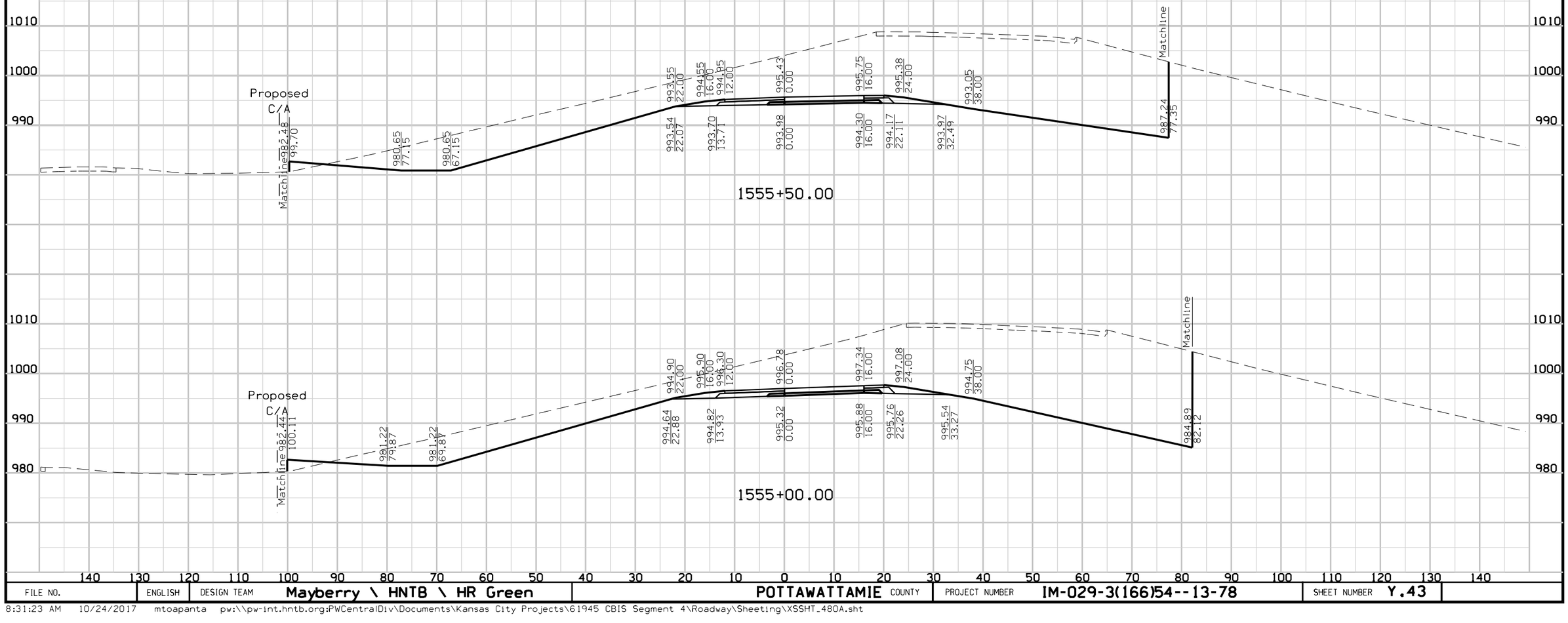
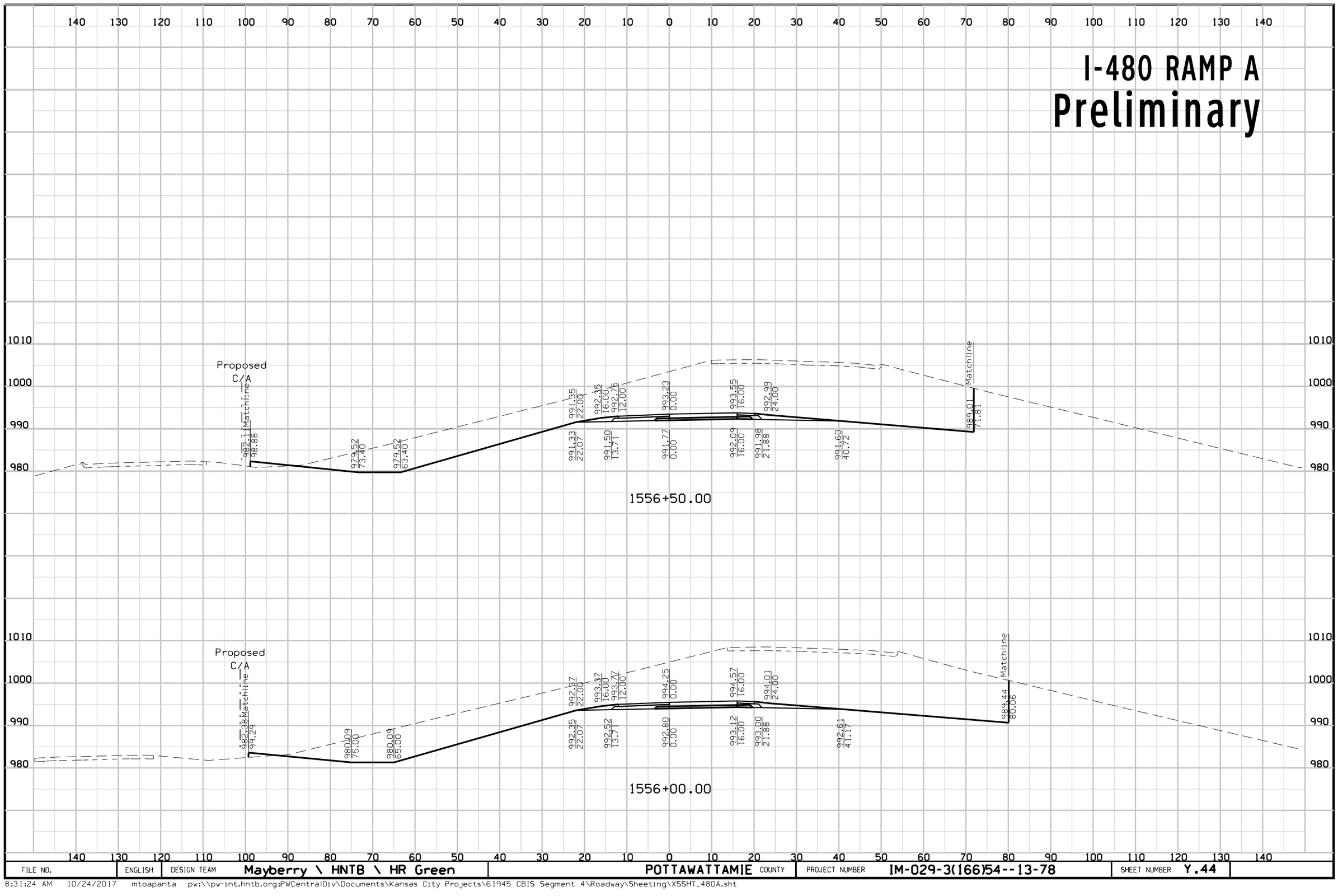
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER Y.43

8:31:23 AM 10/24/2017 mtoapanta pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\XSSHT_480A.sht

I-480 RAMP A
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER Y.44

8:31:24 AM 10/24/2017 mtoapanta pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\XSSHT_480A.sht

I-480 RAMP A
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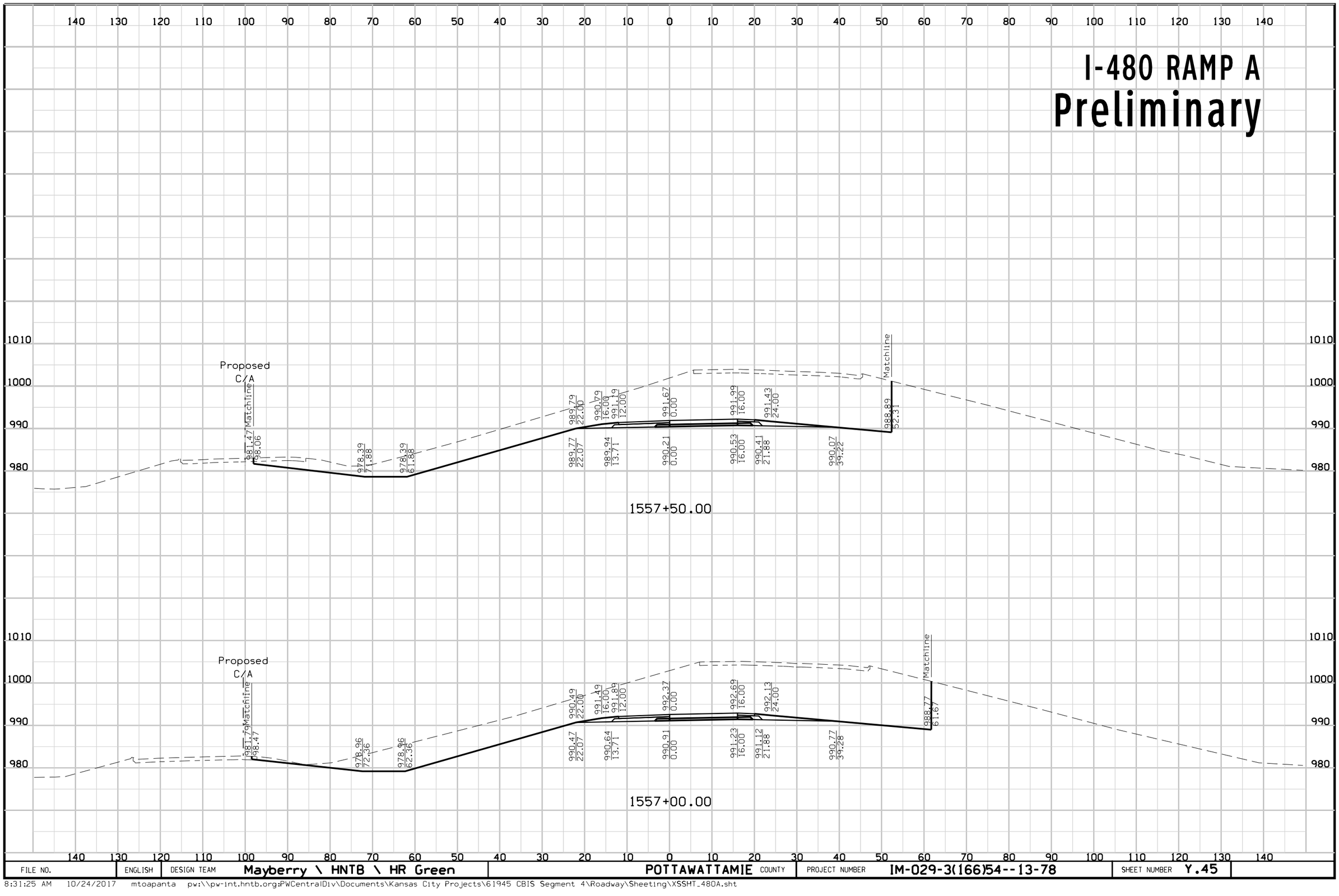
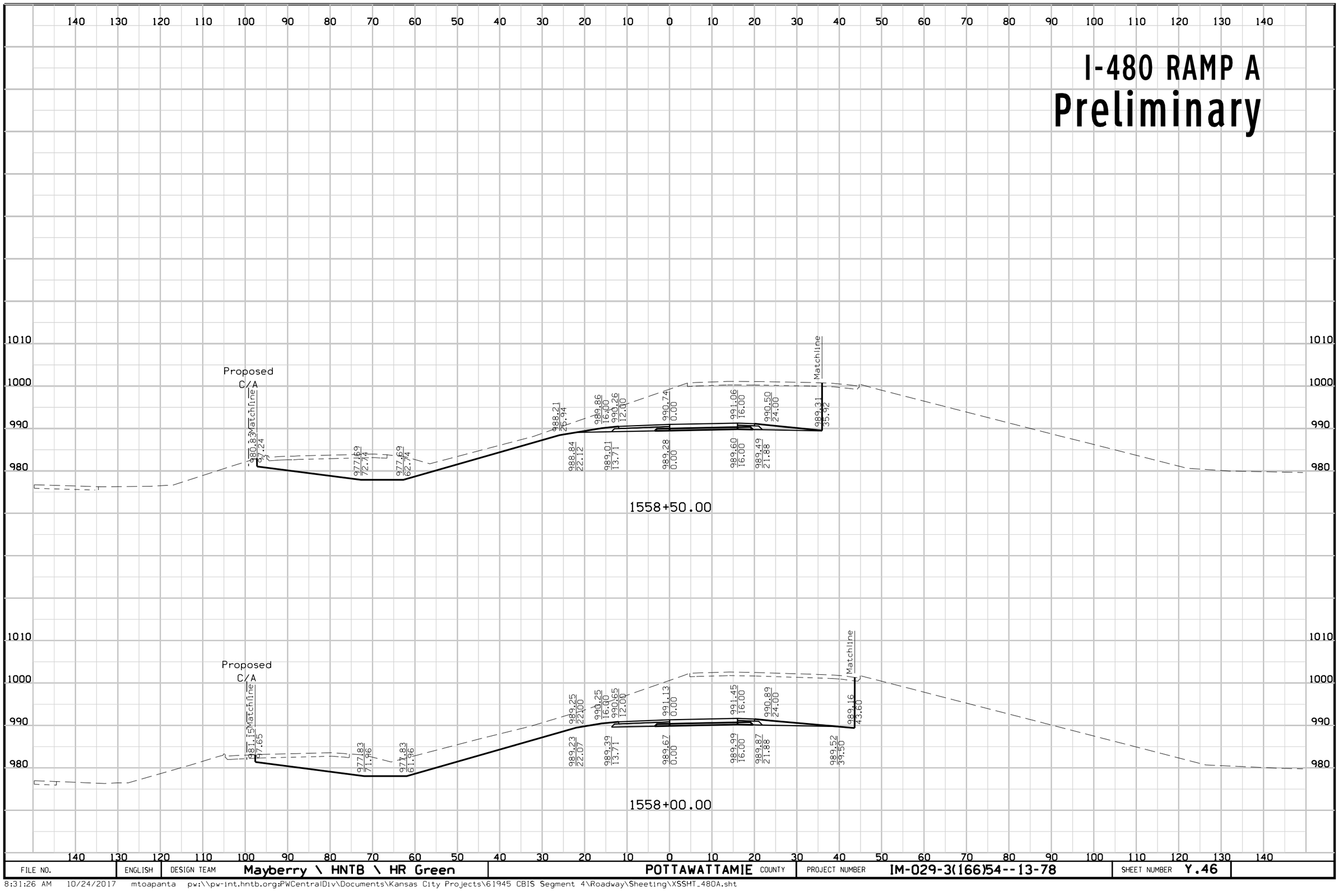


FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER	Y.45

8:31:25 AM 10/24/2017 mtoapanta pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\XSSHT_480A.sht

I-480 RAMP A
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER	Y.46

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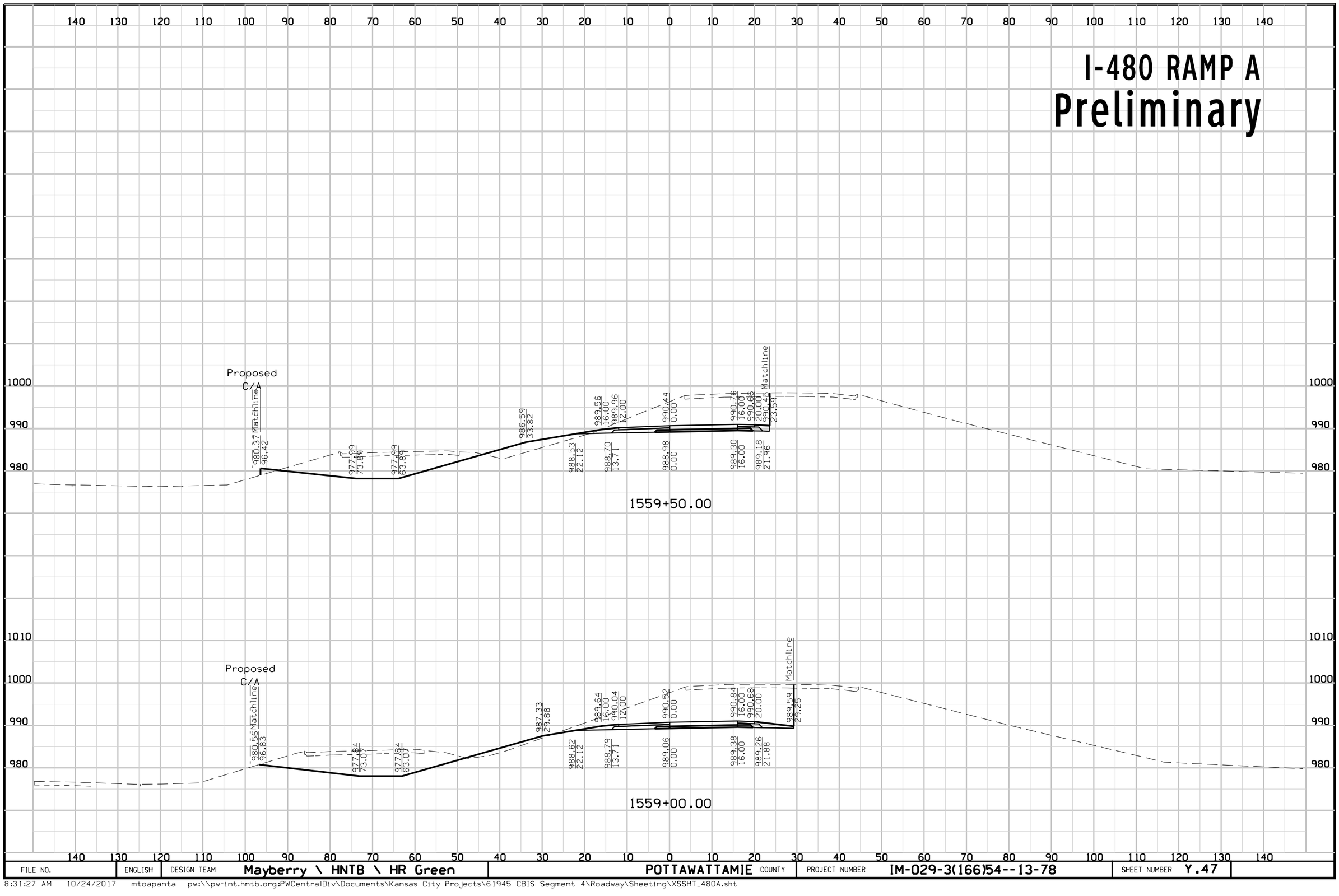
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER	Y.47

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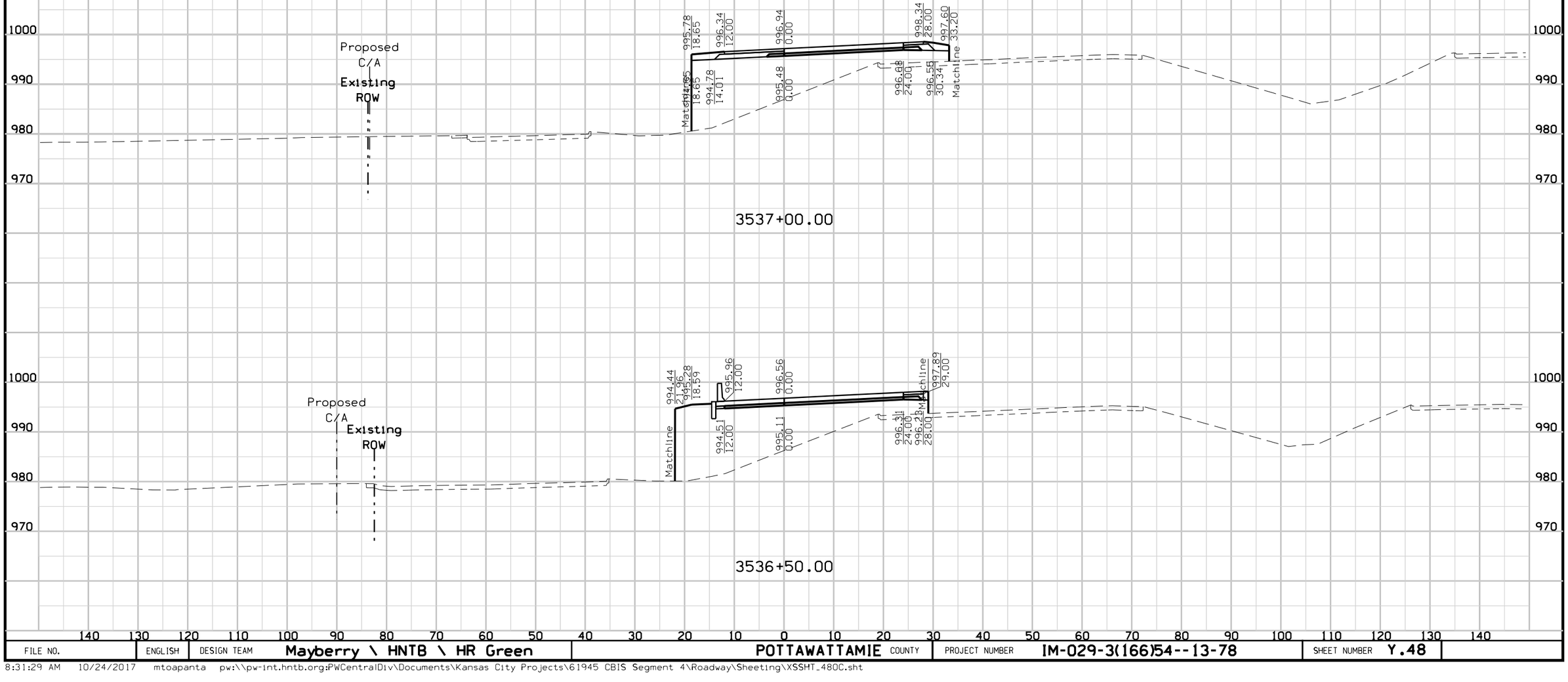
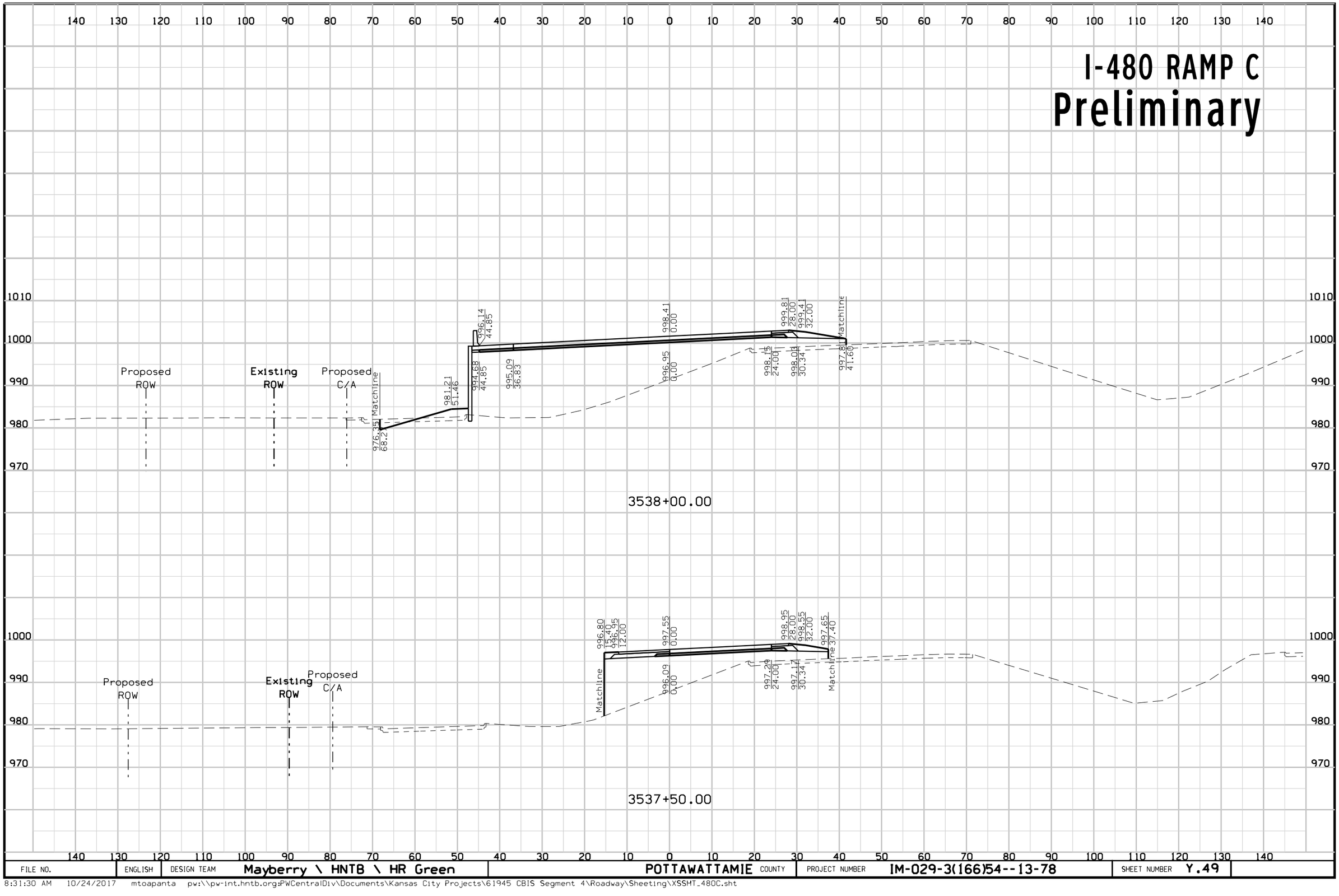
I-480 RAMP C
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER	Y.48

8:31:29 AM 10/24/2017 mtoapanta pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\XSSHT_480C.sht

I-480 RAMP C
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER	Y.49

8:31:30 AM 10/24/2017 mtoapanta pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\XSSHT_480C.sht

I-480 RAMP C
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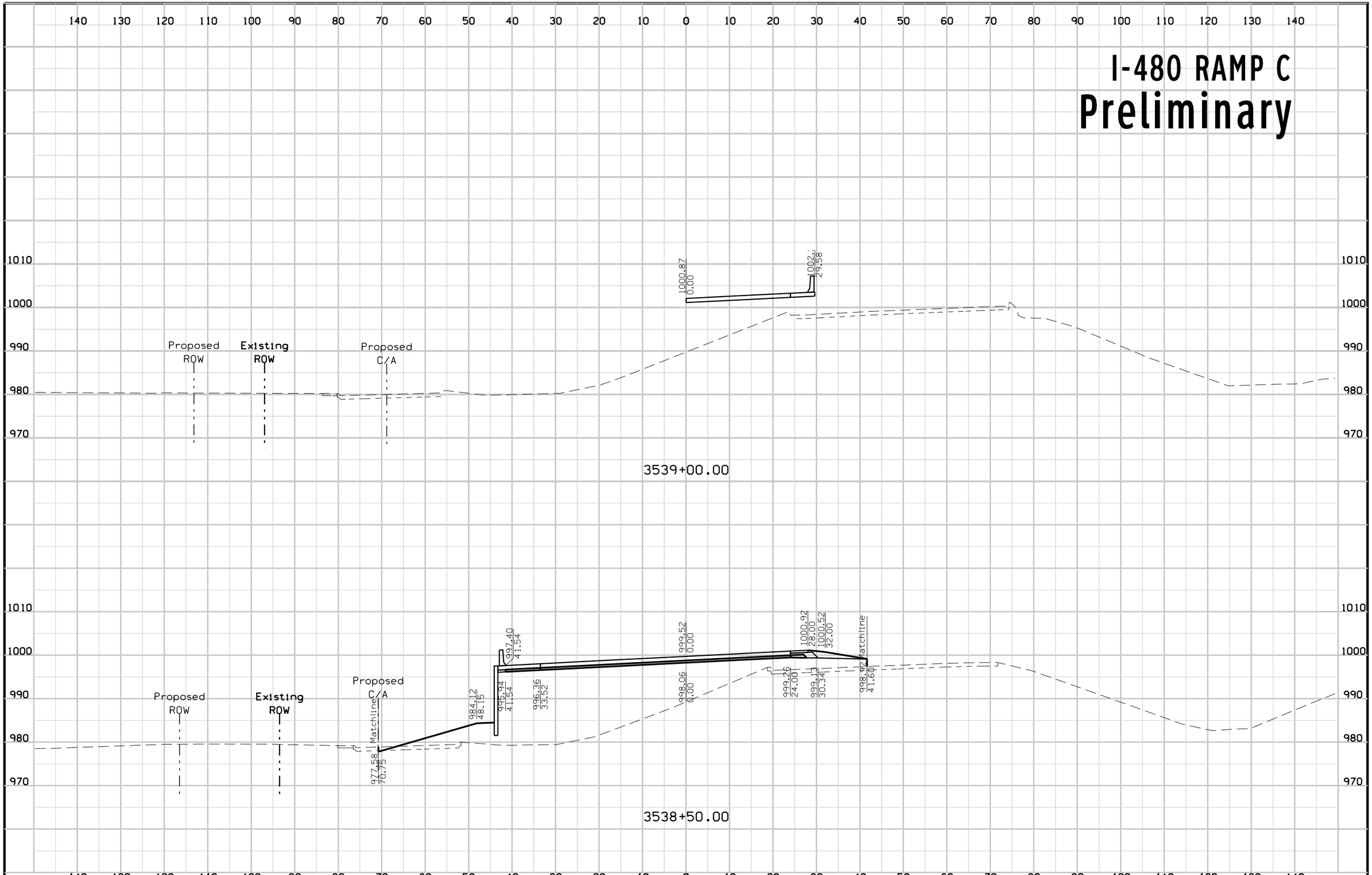

FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER	Y.50

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I-480 RAMP F
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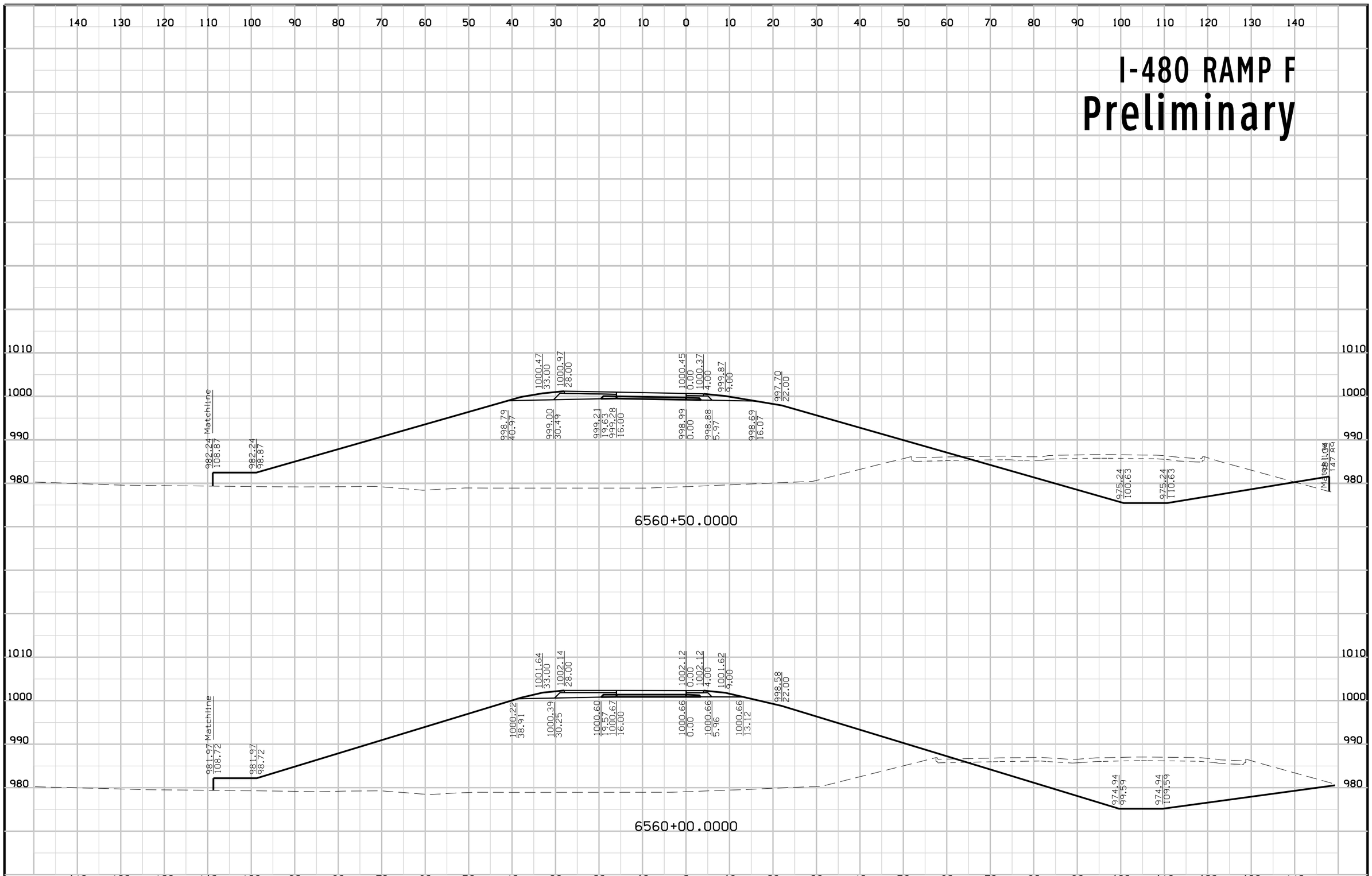

FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER	Y.51

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I-480 RAMP F
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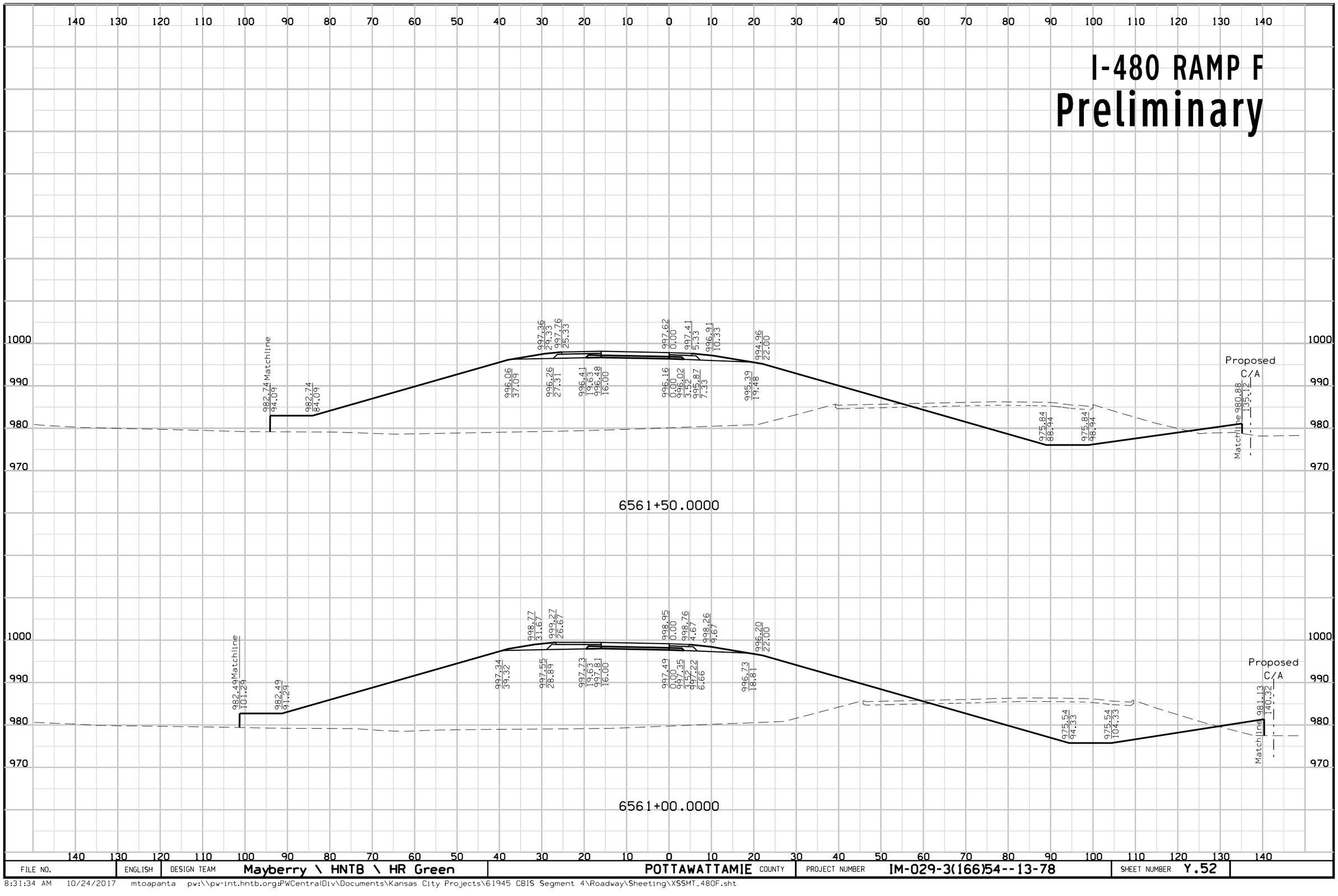

FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER	Y.52

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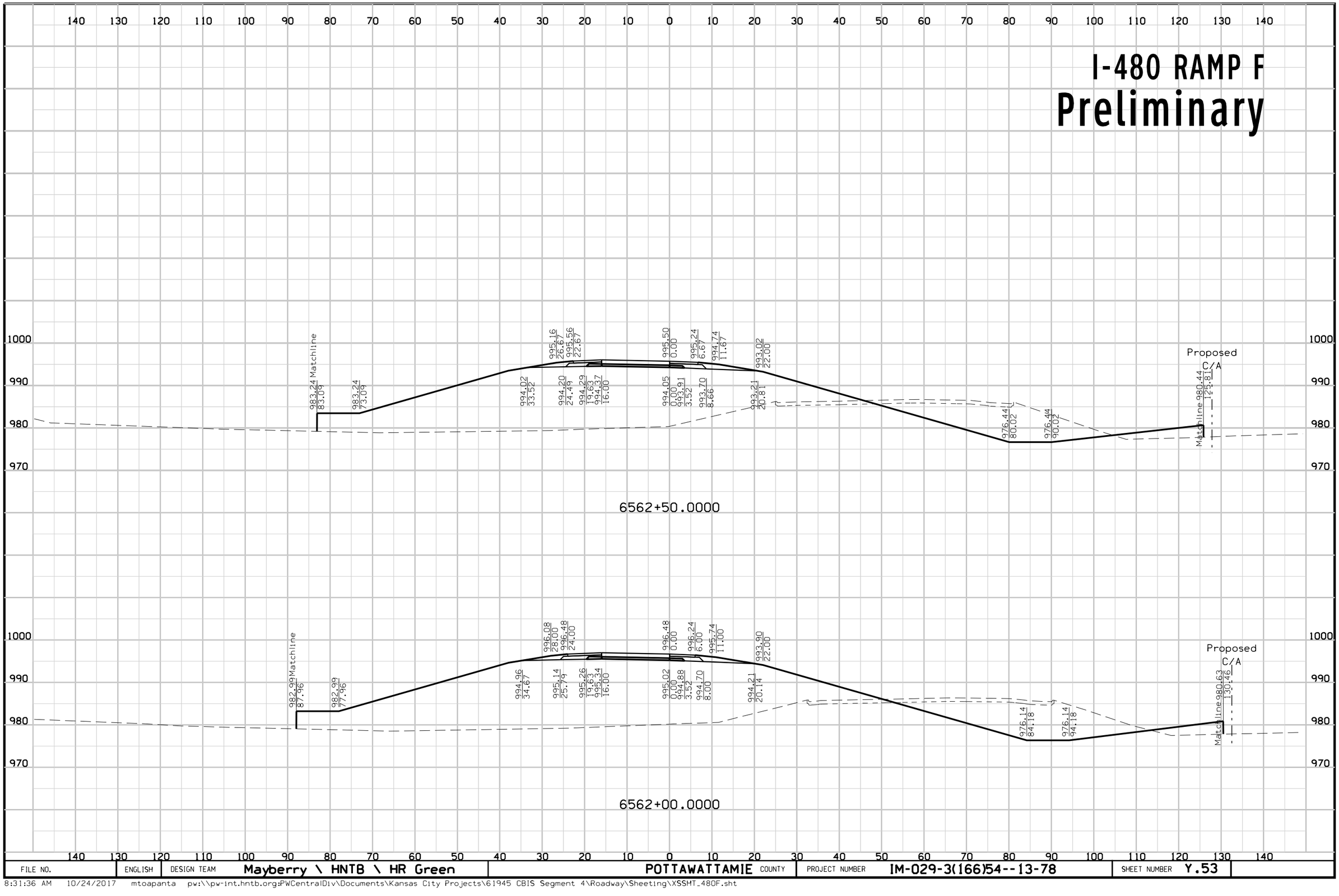
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER	Y.53

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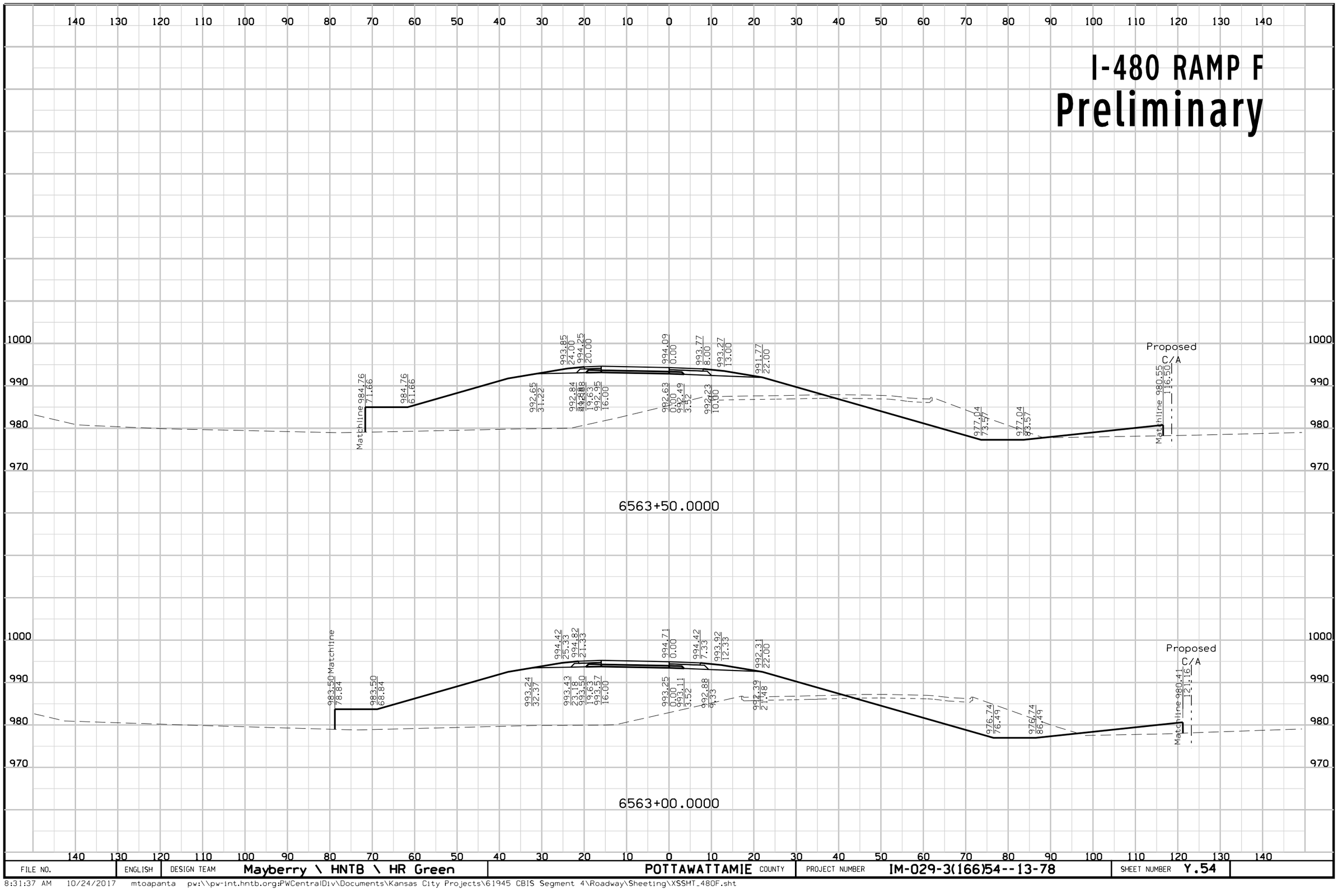

FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER	Y.54

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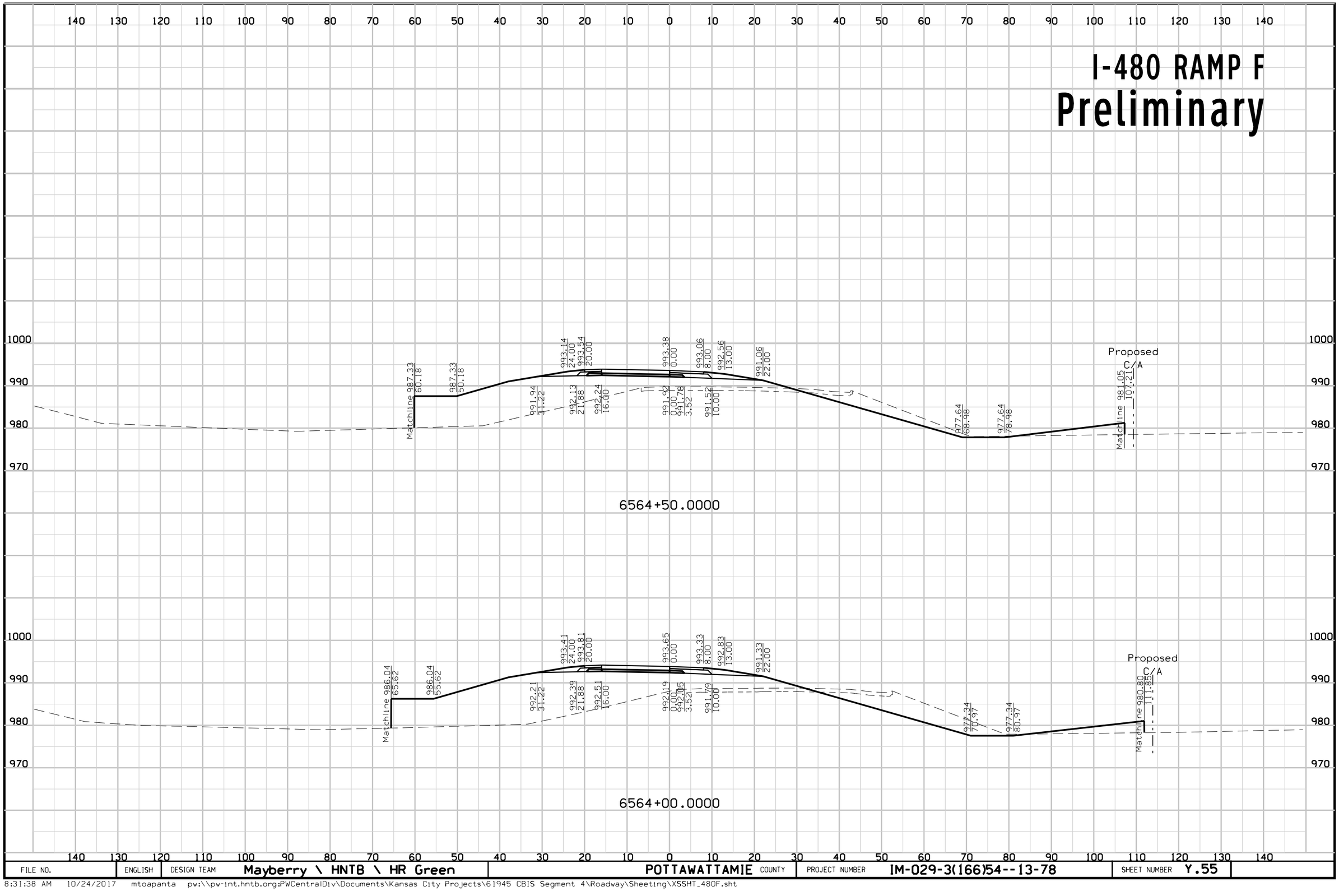

FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER	Y.55

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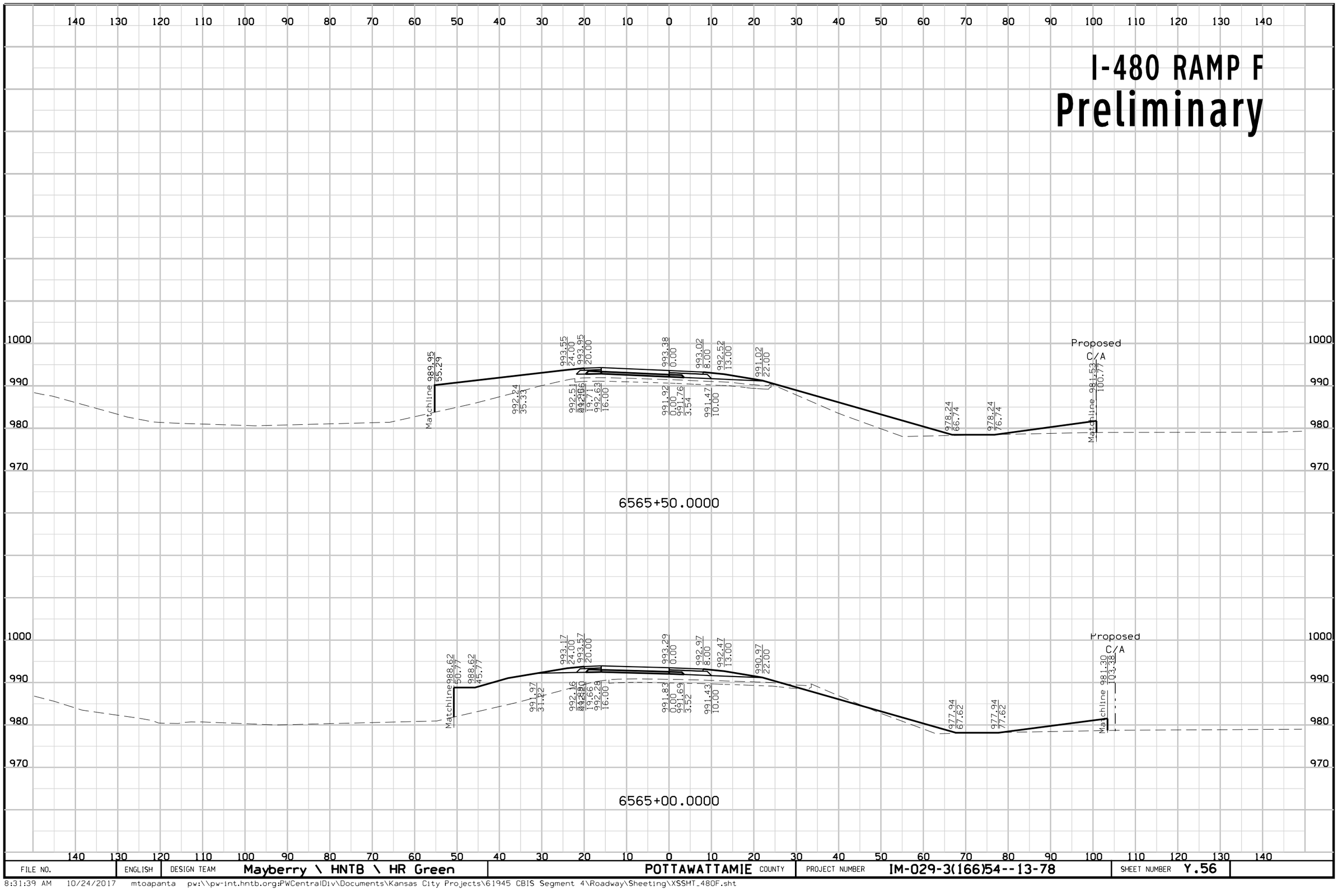
I-480 RAMP F
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER	Y.56

8:31:39 AM 10/24/2017 mtoapanta pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\XSSHT_480F.sht

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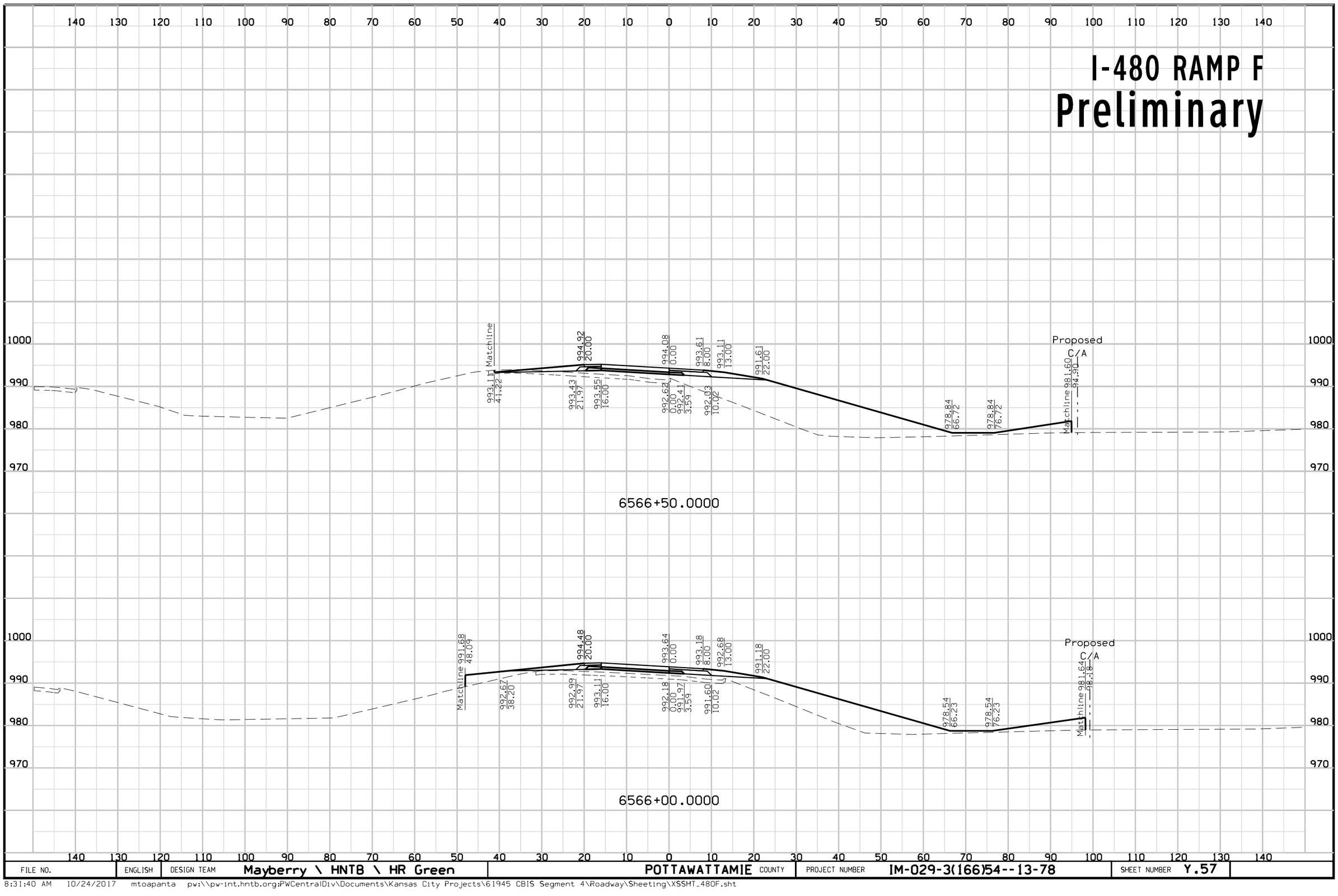
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER	Y.57

8:31:40 AM 10/24/2017 mtoapanta pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\XSSHT_480F.sht

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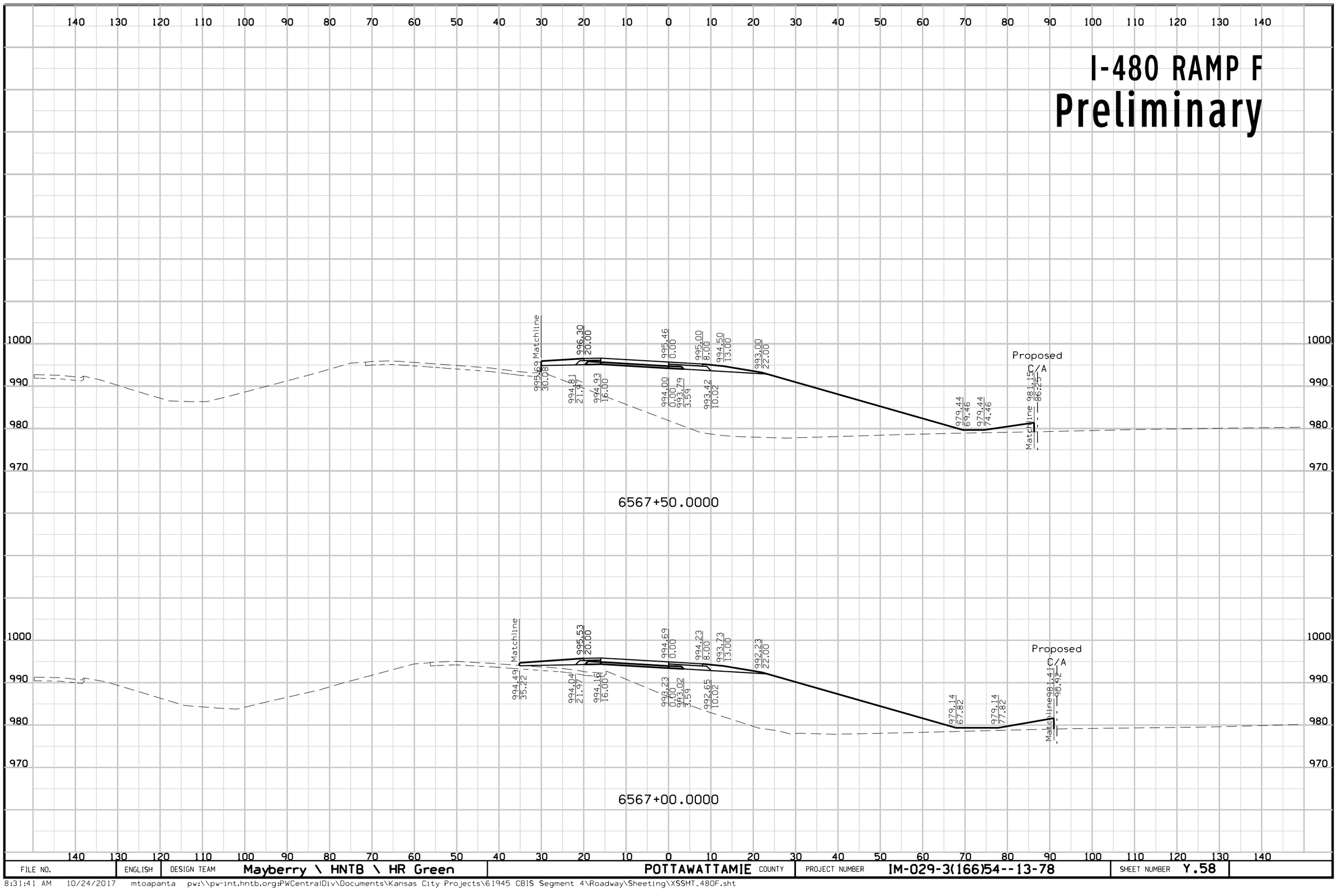
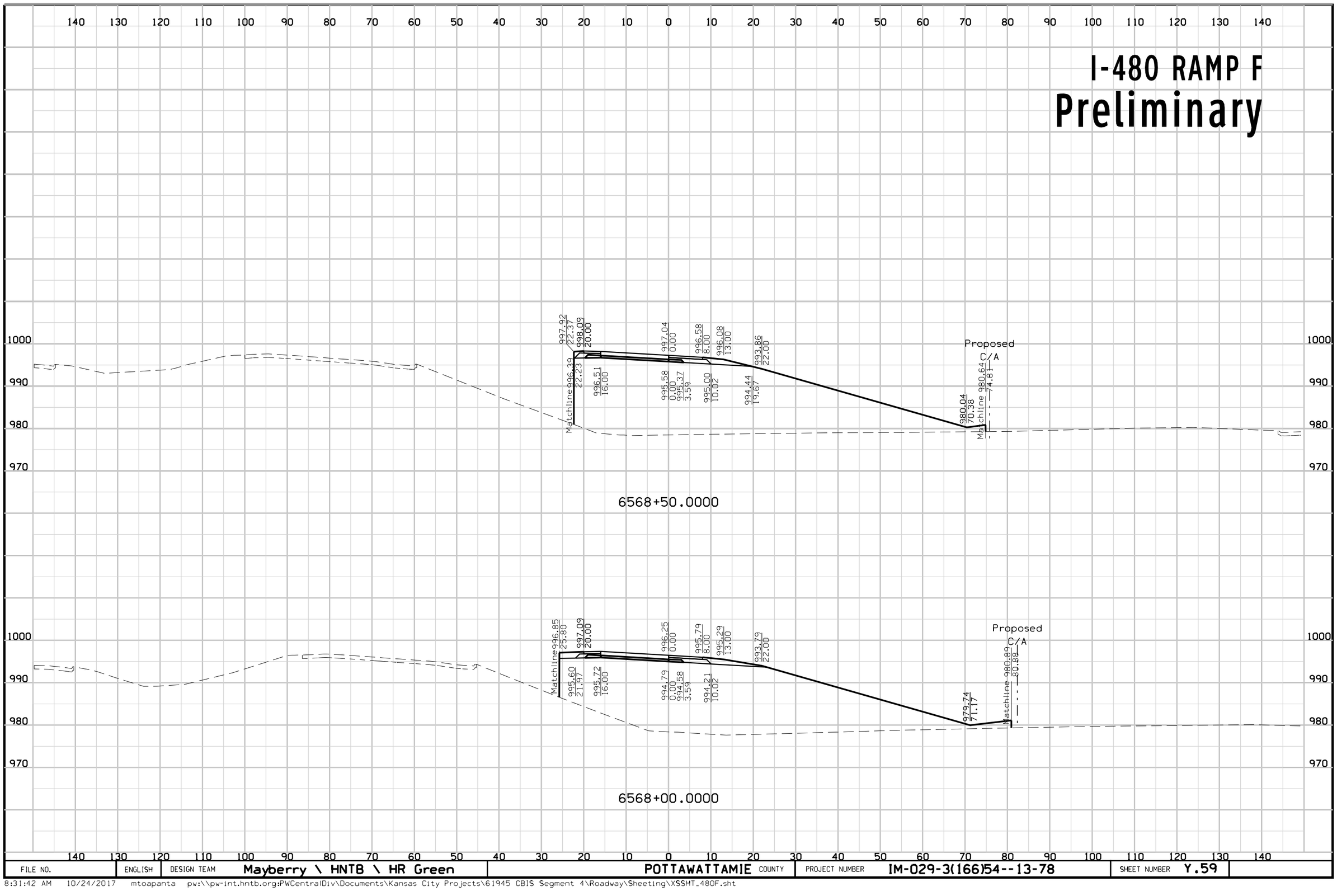
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER	Y.58

8:31:41 AM 10/24/2017 mtoapanta pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\XSSHT_480F.sht

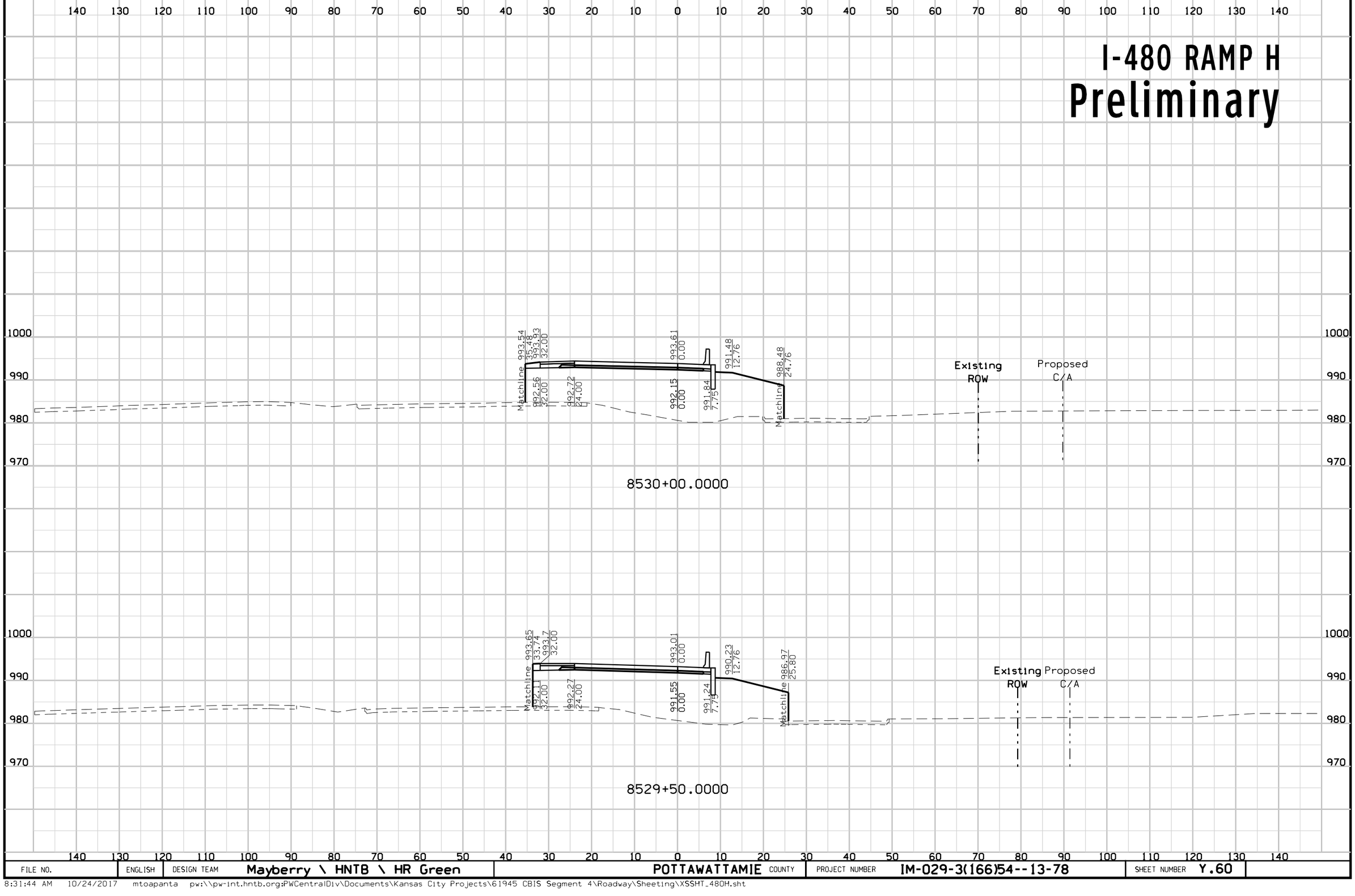
I-480 RAMP F
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER	Y.59

8:31:42 AM 10/24/2017 mtoapanta pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\XSSHT_480F.sht

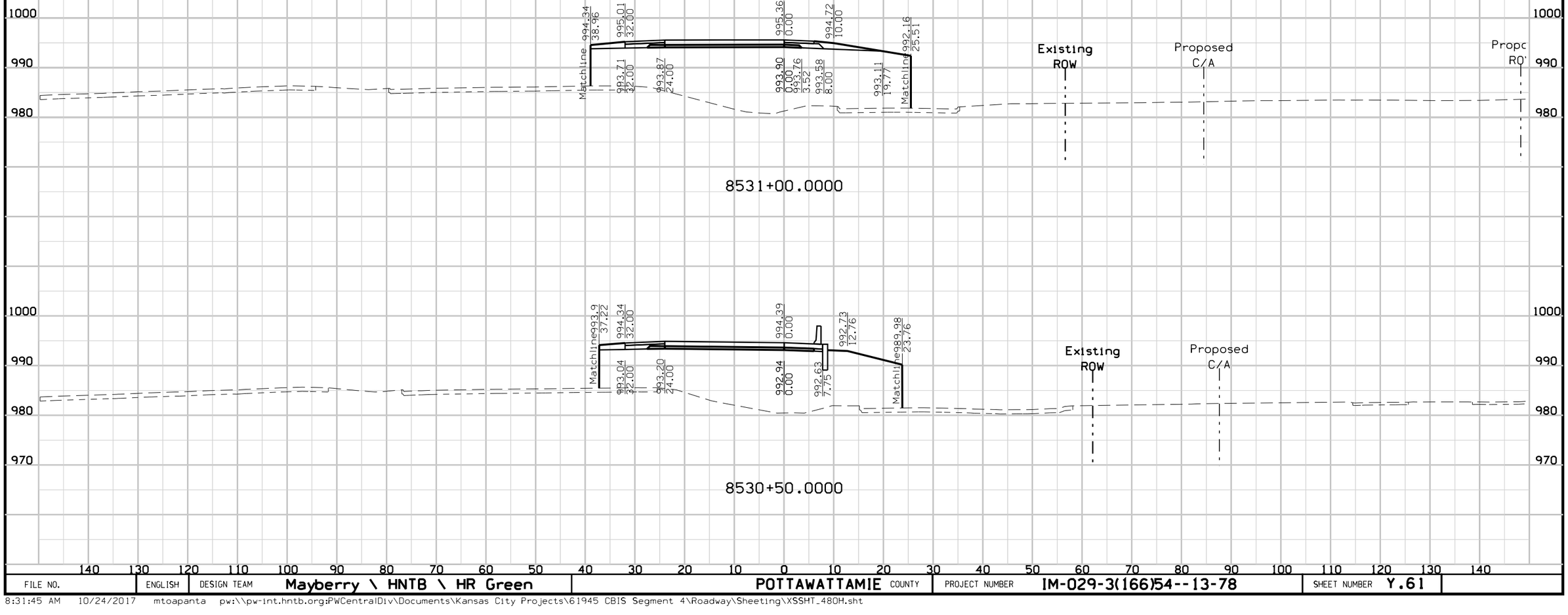
I-480 RAMP H
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER	Y.60

8:31:44 AM 10/24/2017 mtoapanta pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\XSSHT_480H.sht

I-480 RAMP H
Preliminary



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8:31:45 AM 10/24/2017 mtoapanta pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\XSSHT_480H.sht

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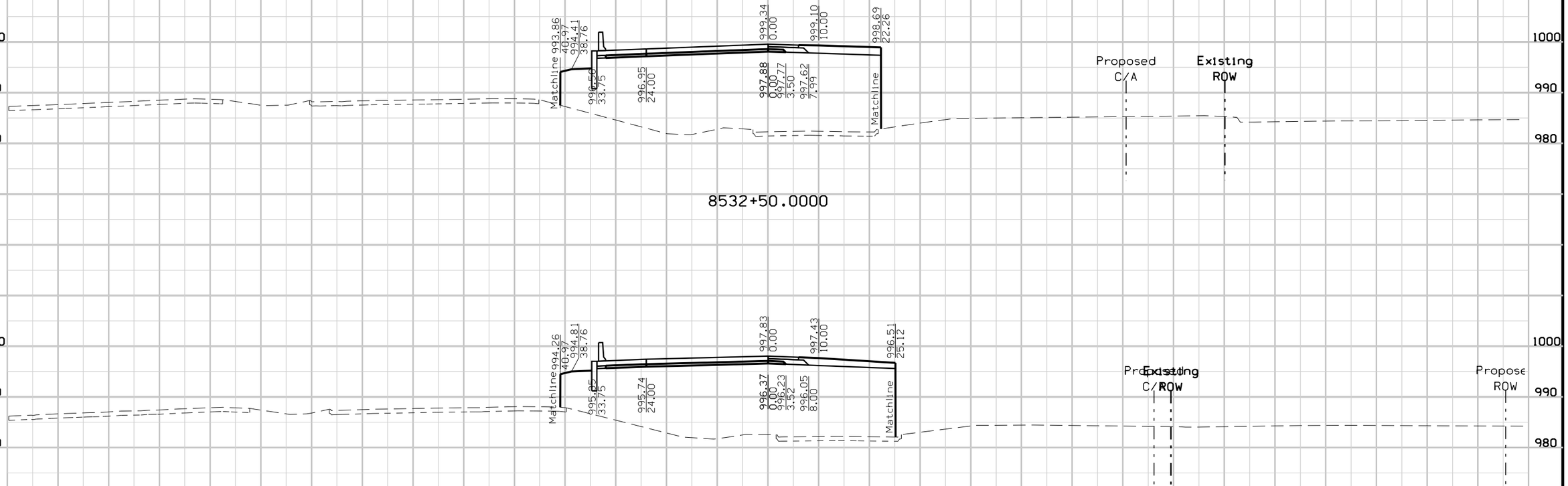
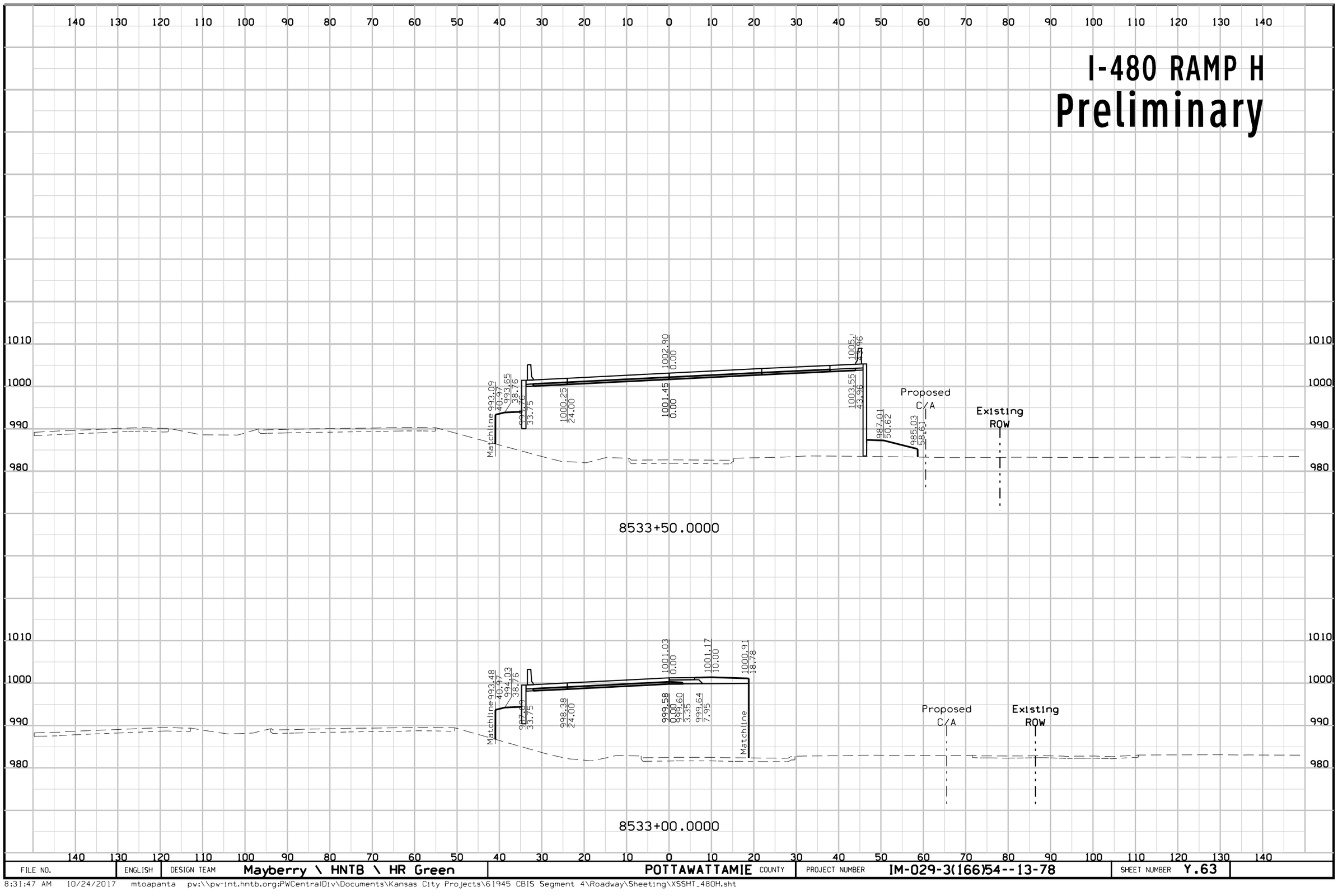
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER	Y.62

8:31:46 AM 10/24/2017 mtoapanta pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\XSSHT_480H.sht

I-480 RAMP H
Preliminary



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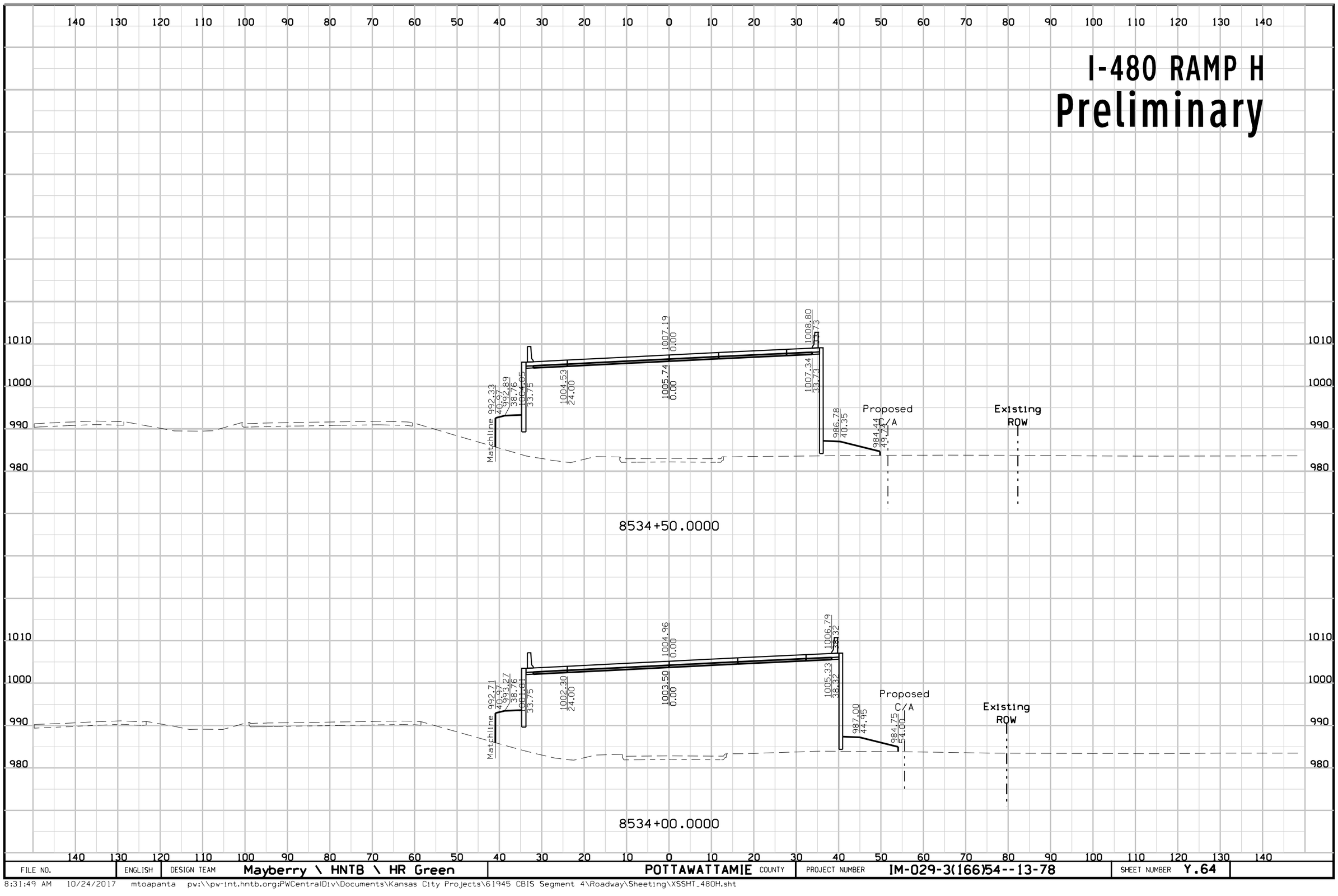
I-480 RAMP H
Preliminary



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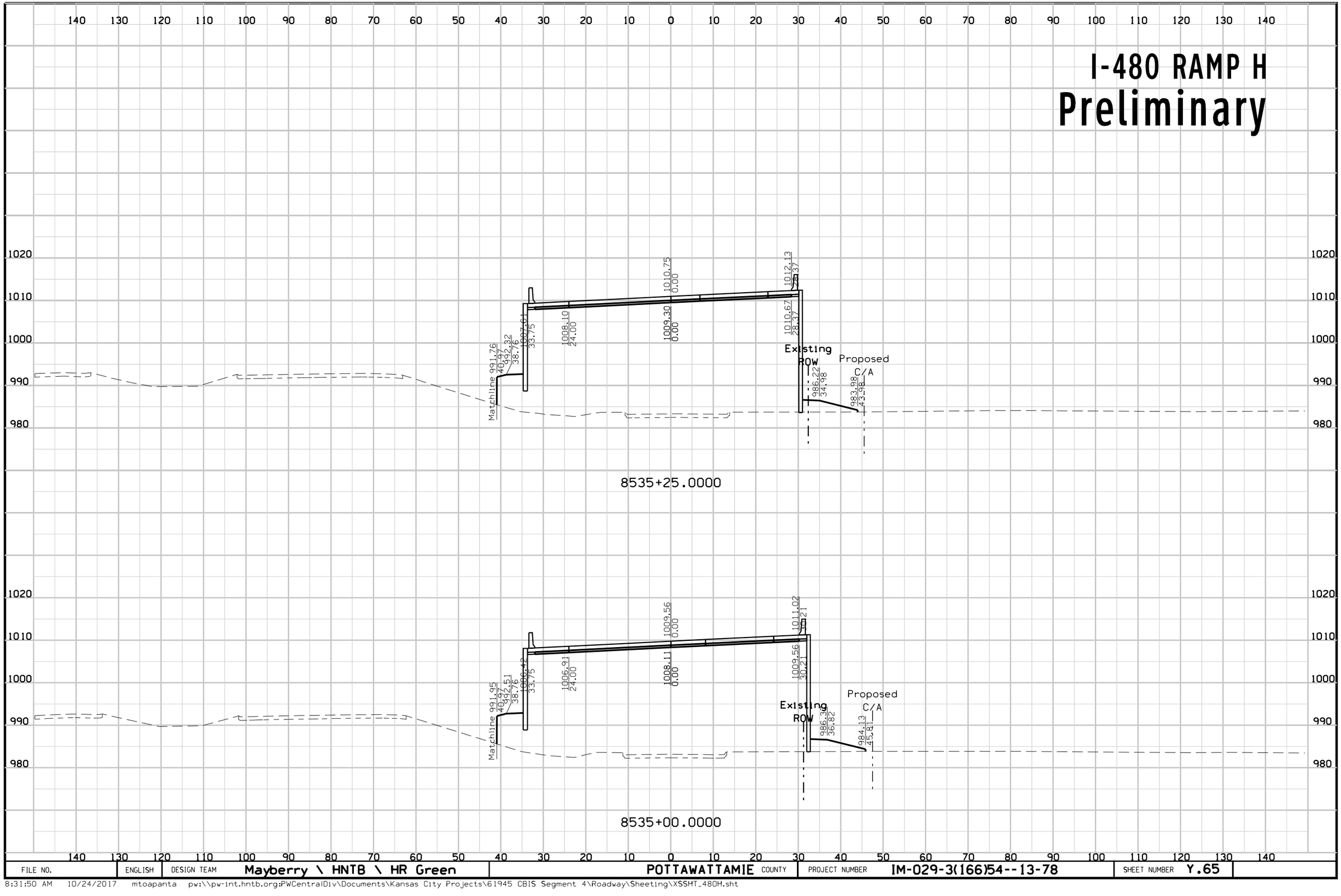
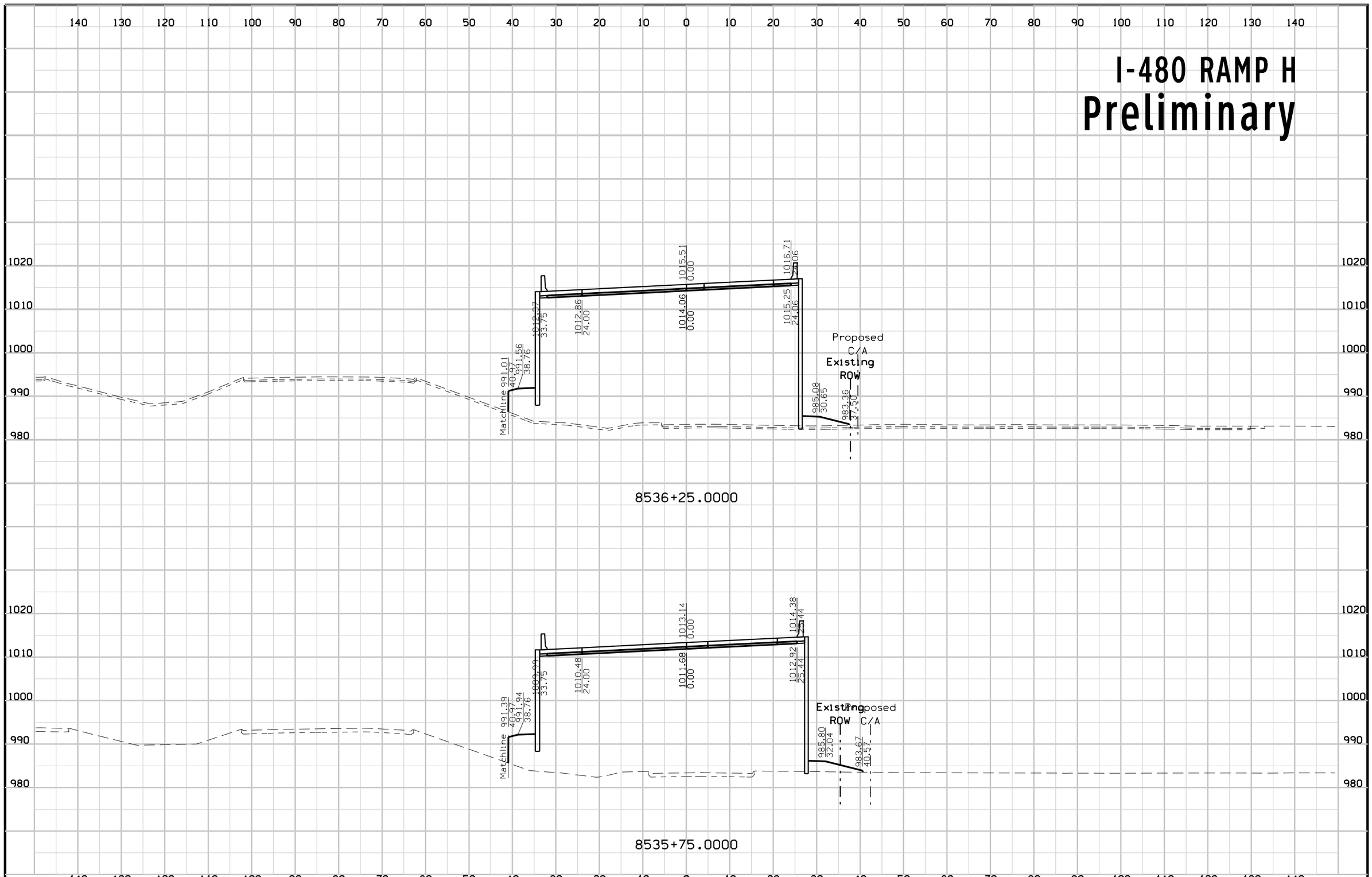
I-480 RAMP H
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER	Y.65

8:31:50 AM 10/24/2017 mtoapanta pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\XSSHT_480H.sht

I-480 RAMP H
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER	Y.66

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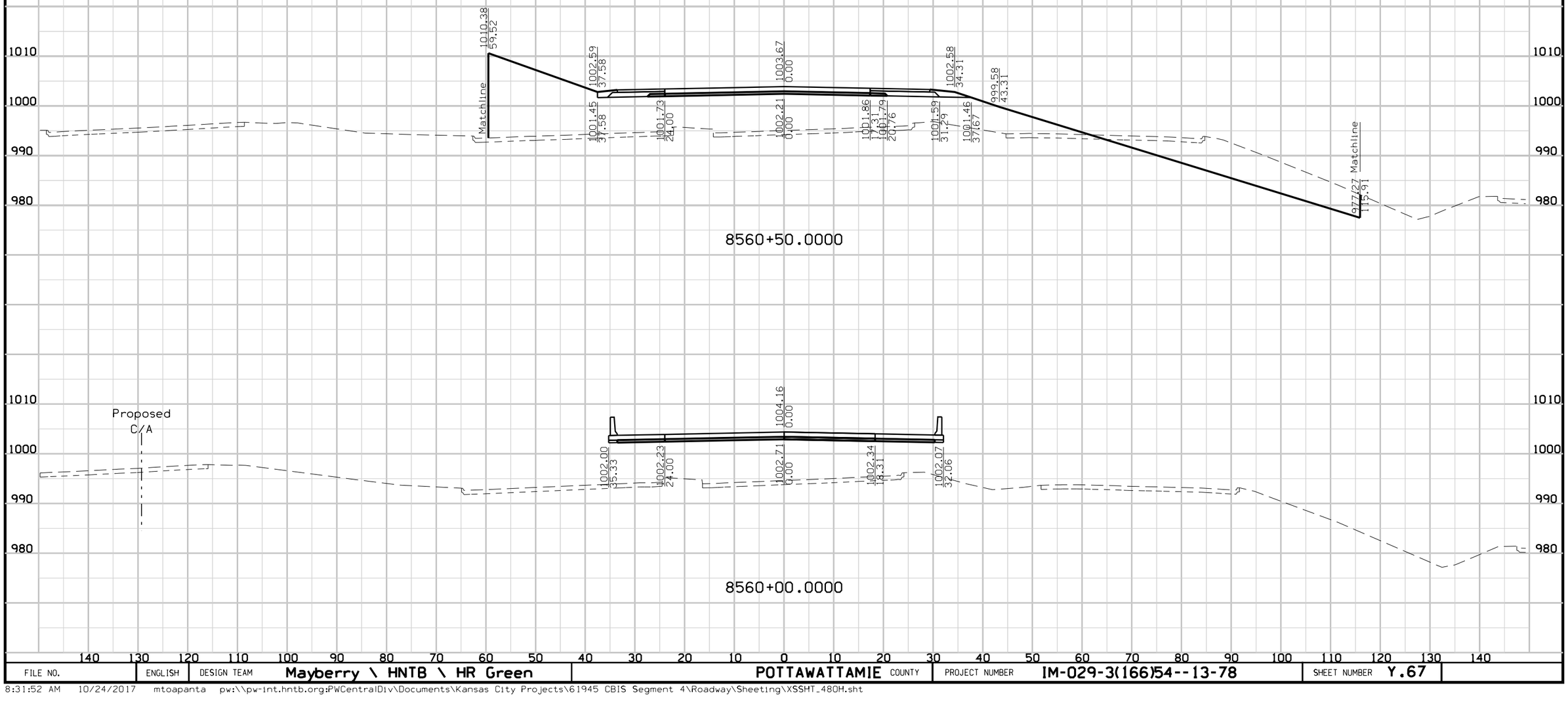
Preliminary



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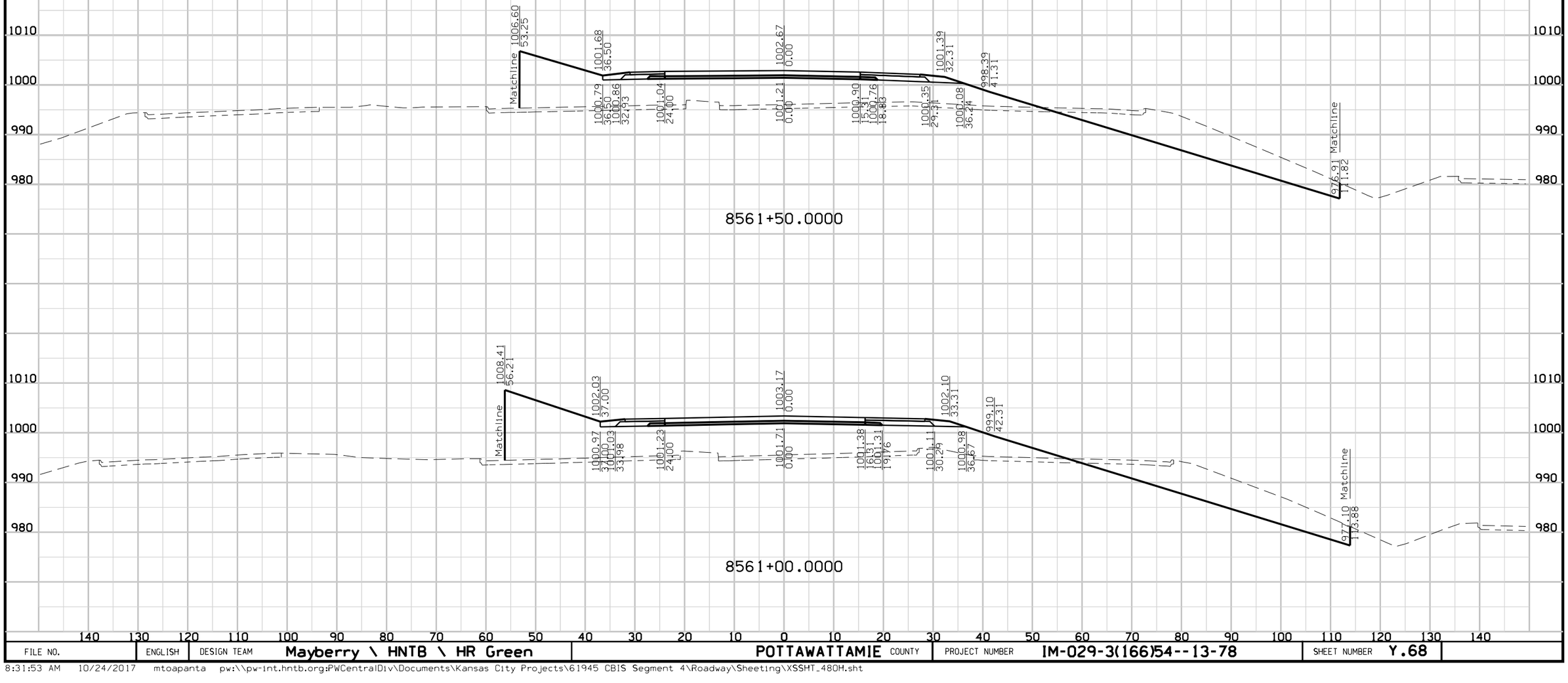
8:31:52 AM 10/24/2017 mtoapanta pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\XSSHT_480H.sht

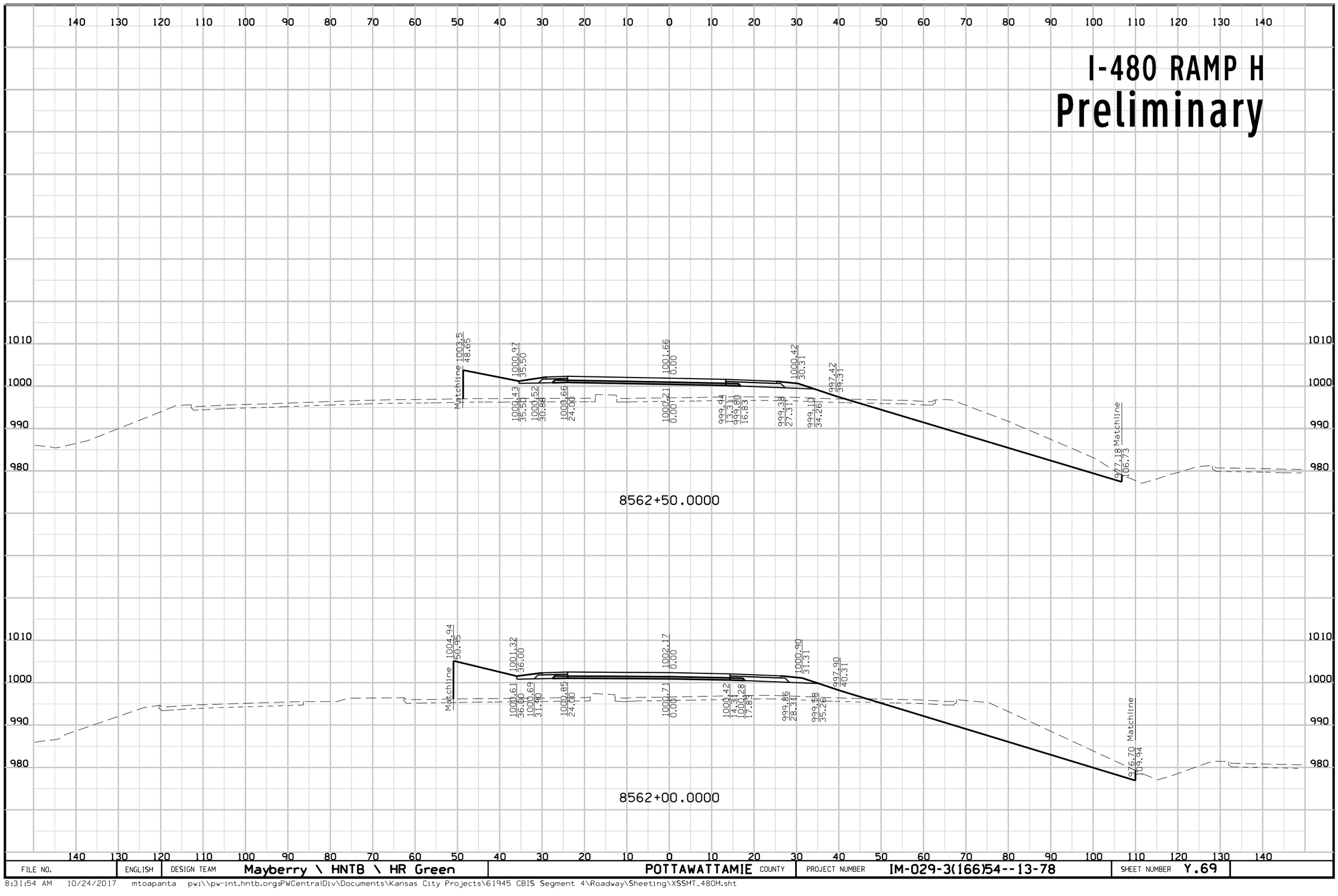
I-480 RAMP H
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER	Y.68

8:31:53 AM 10/24/2017 mtoapanta pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\XSSHT_480H.sht

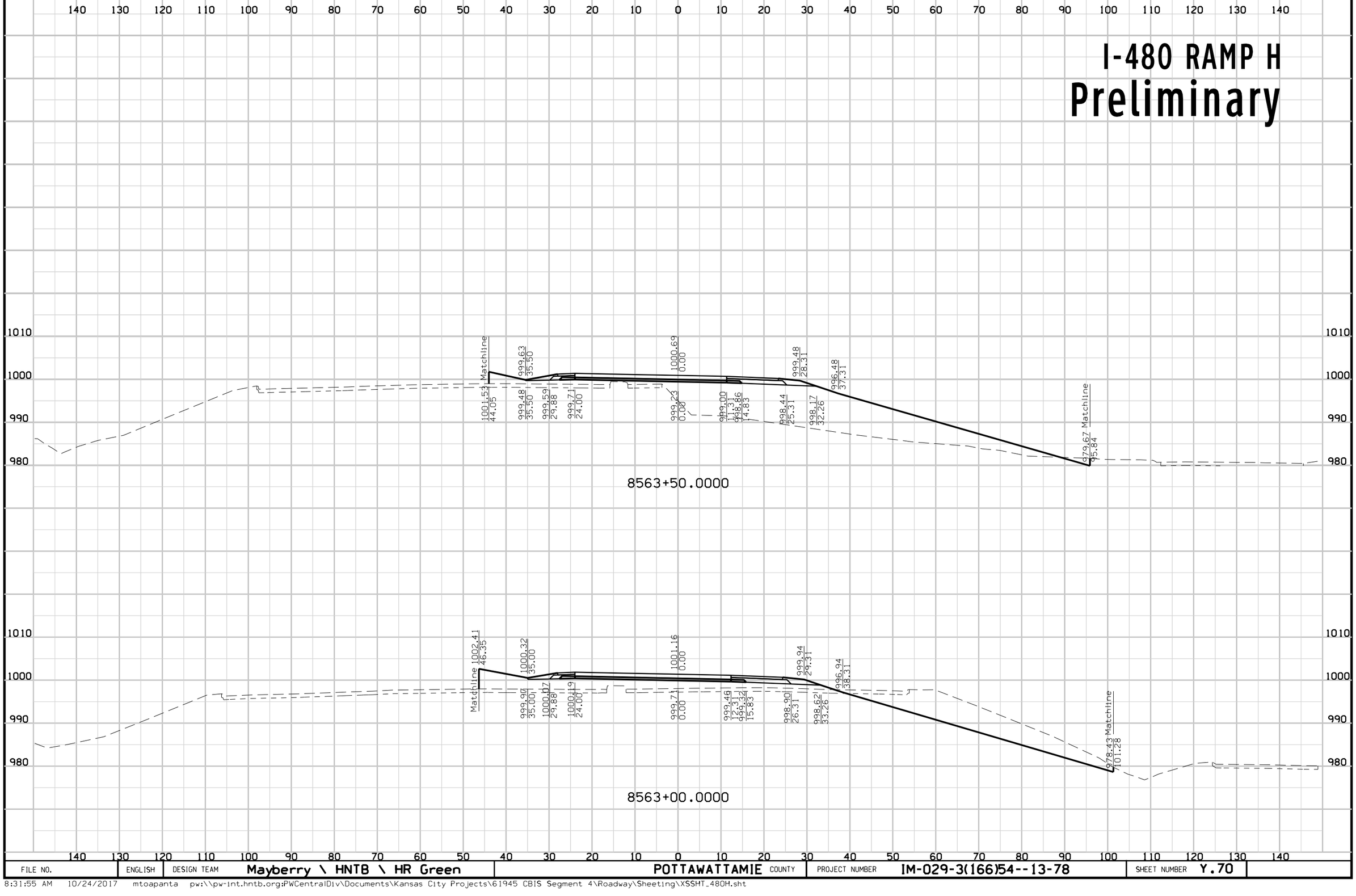
I-480 RAMP H
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER	Y.69

8:31:54 AM 10/24/2017 mtoapanta pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\XSSHT_480H.sht

I-480 RAMP H
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER	Y.70

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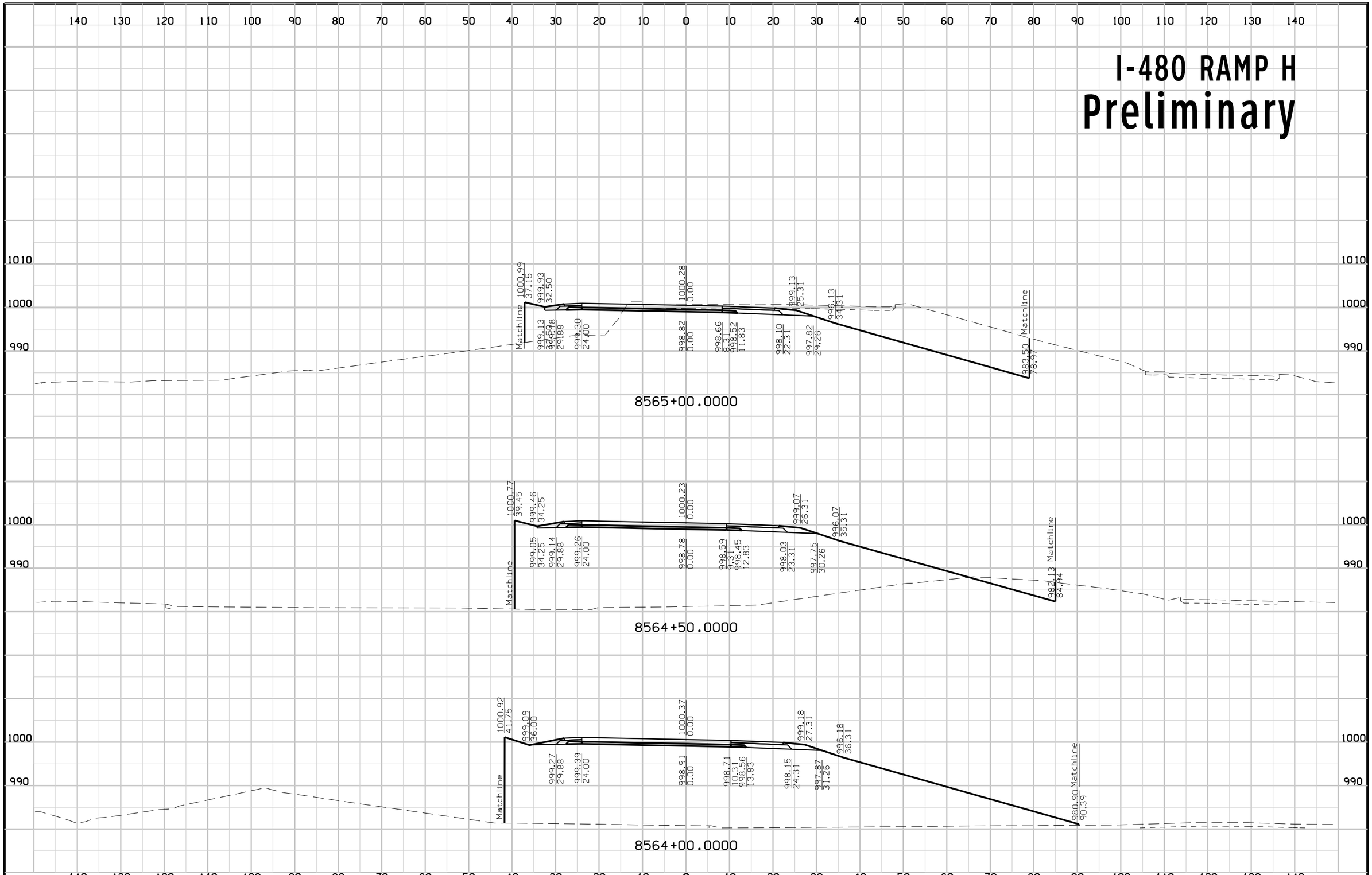
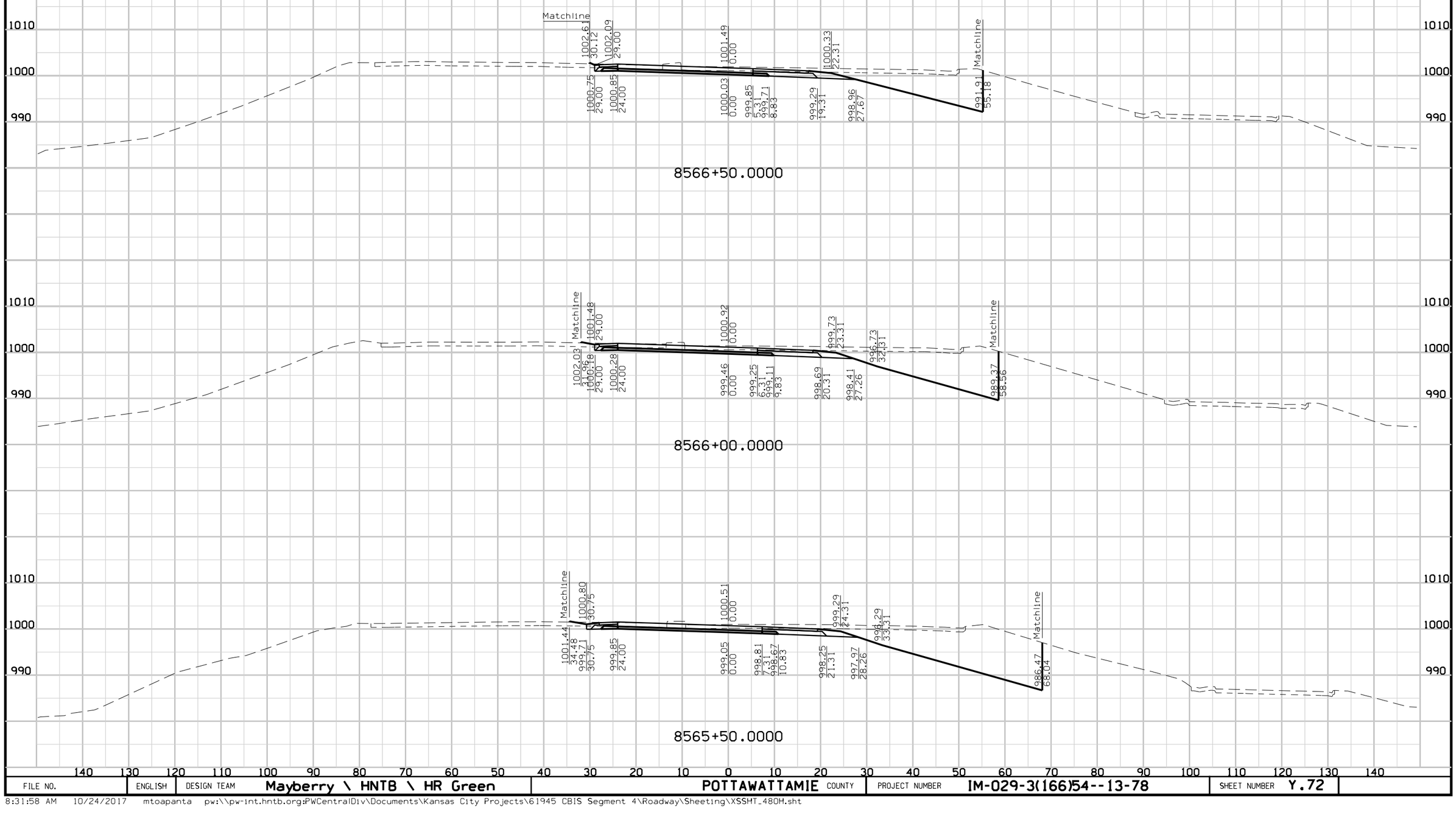
I-480 RAMP H
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER	Y.71

8:31:56 AM 10/24/2017 mtoapanta pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\XSSHT_480H.sht

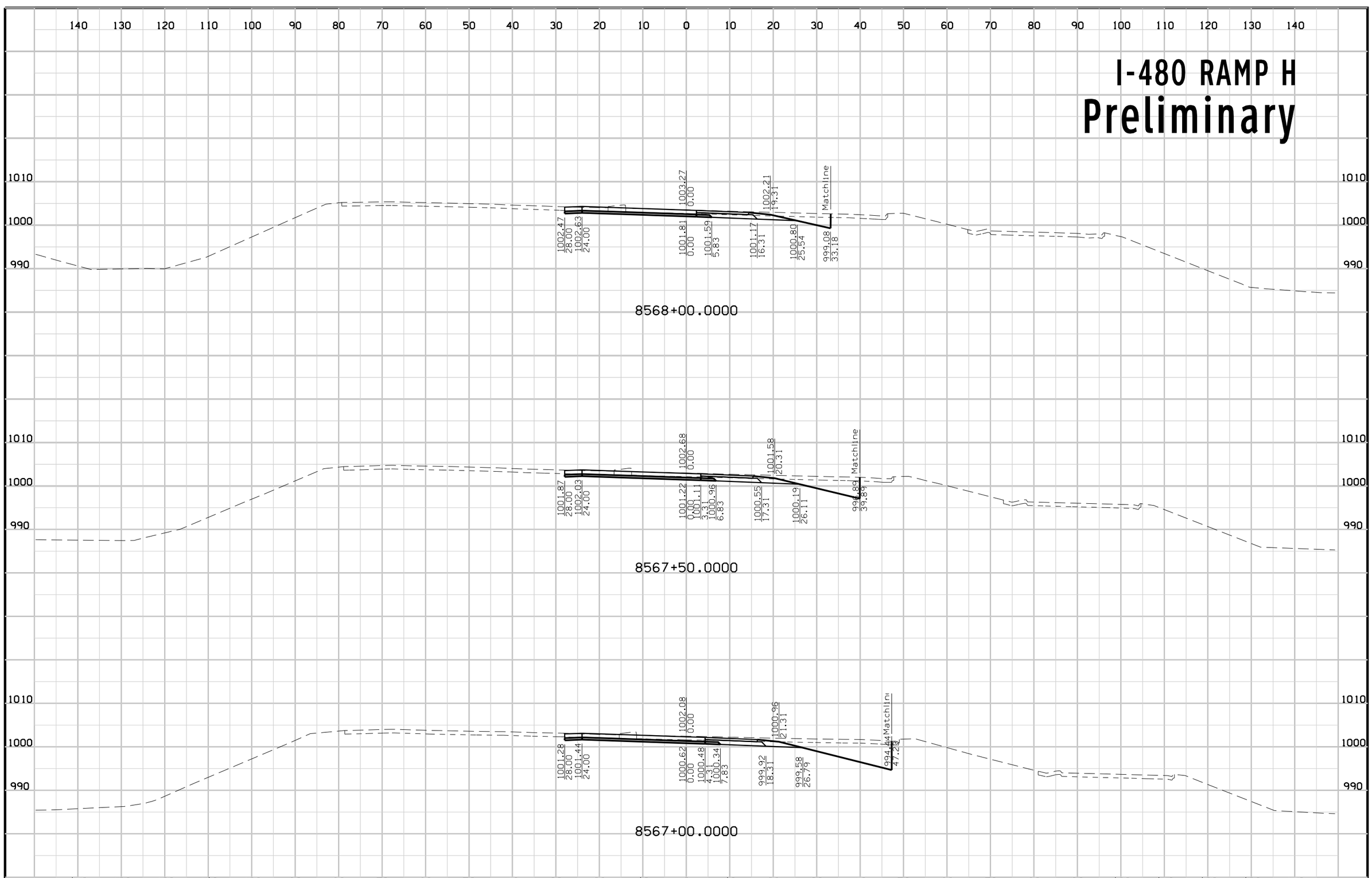
I-480 RAMP H
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER	Y.72

8:31:58 AM 10/24/2017 mtoapanta pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\XSSHT_480H.sht

I-480 RAMP H
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER	Y.73

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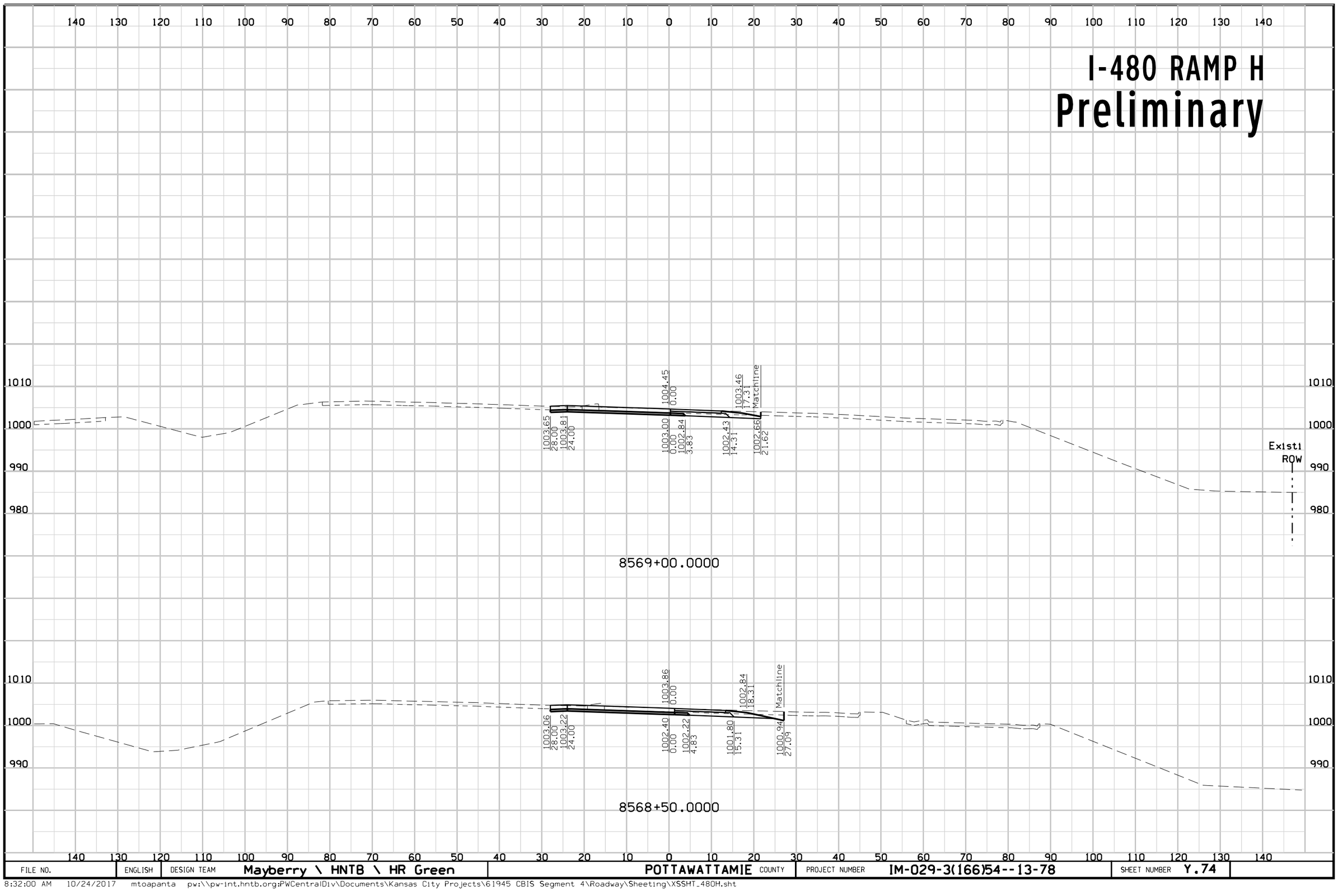
Preliminary

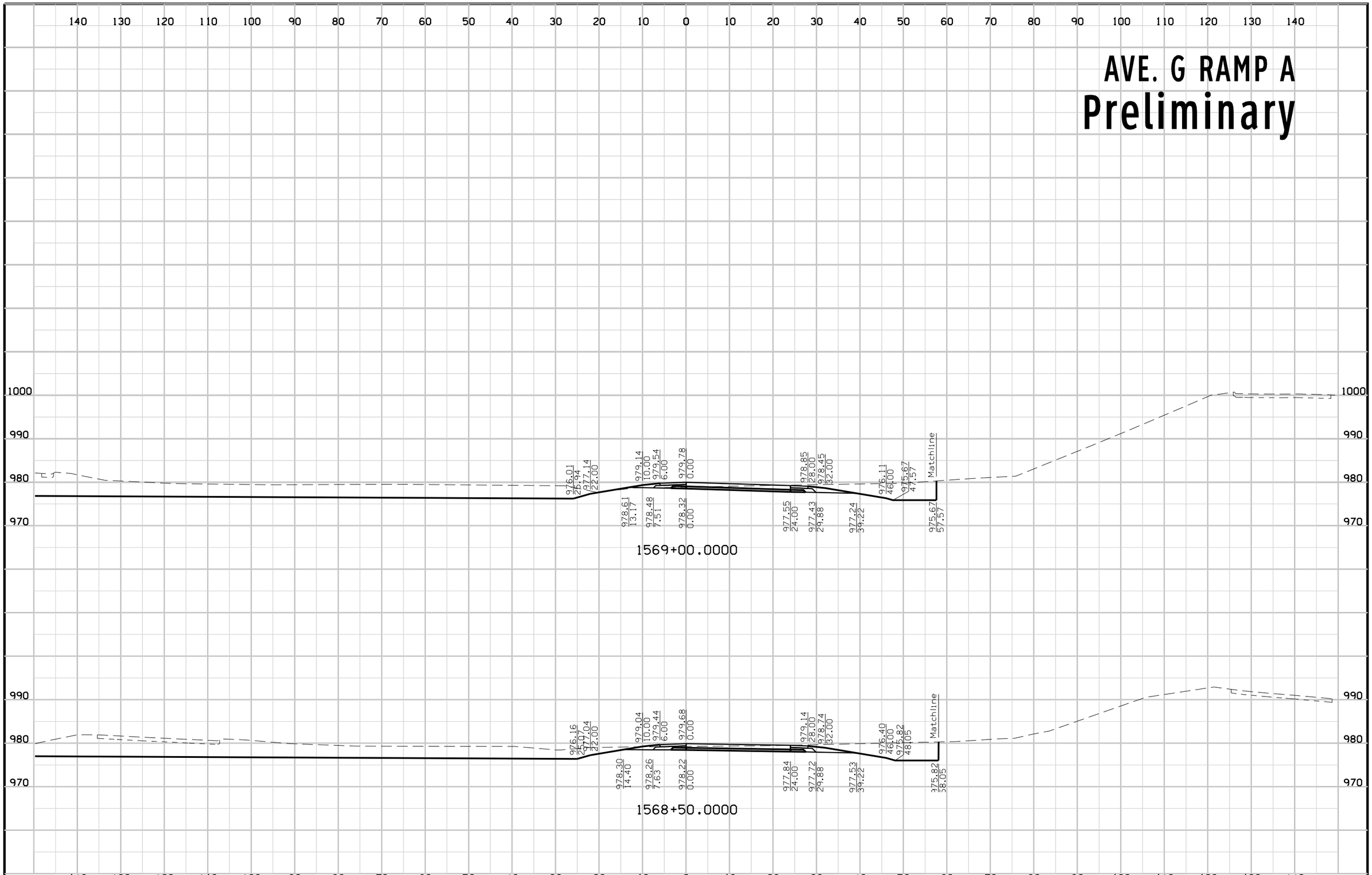


FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER	Y.74

8:32:00 AM 10/24/2017 mtoapanta pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\XSSHT_480H.sht

AVE. G RAMP A

Preliminary



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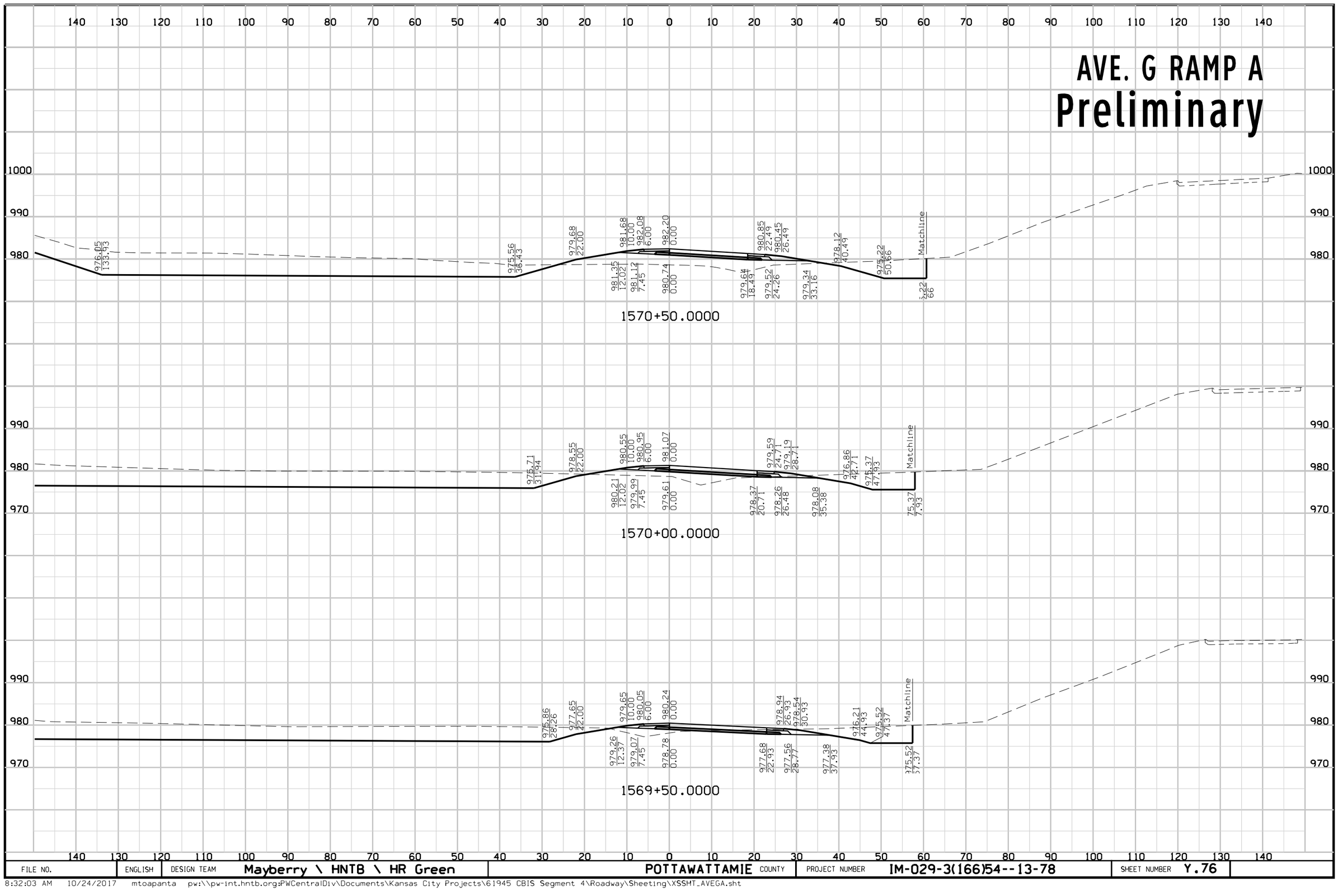
AVE. G RAMP A

Preliminary



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER	Y.76

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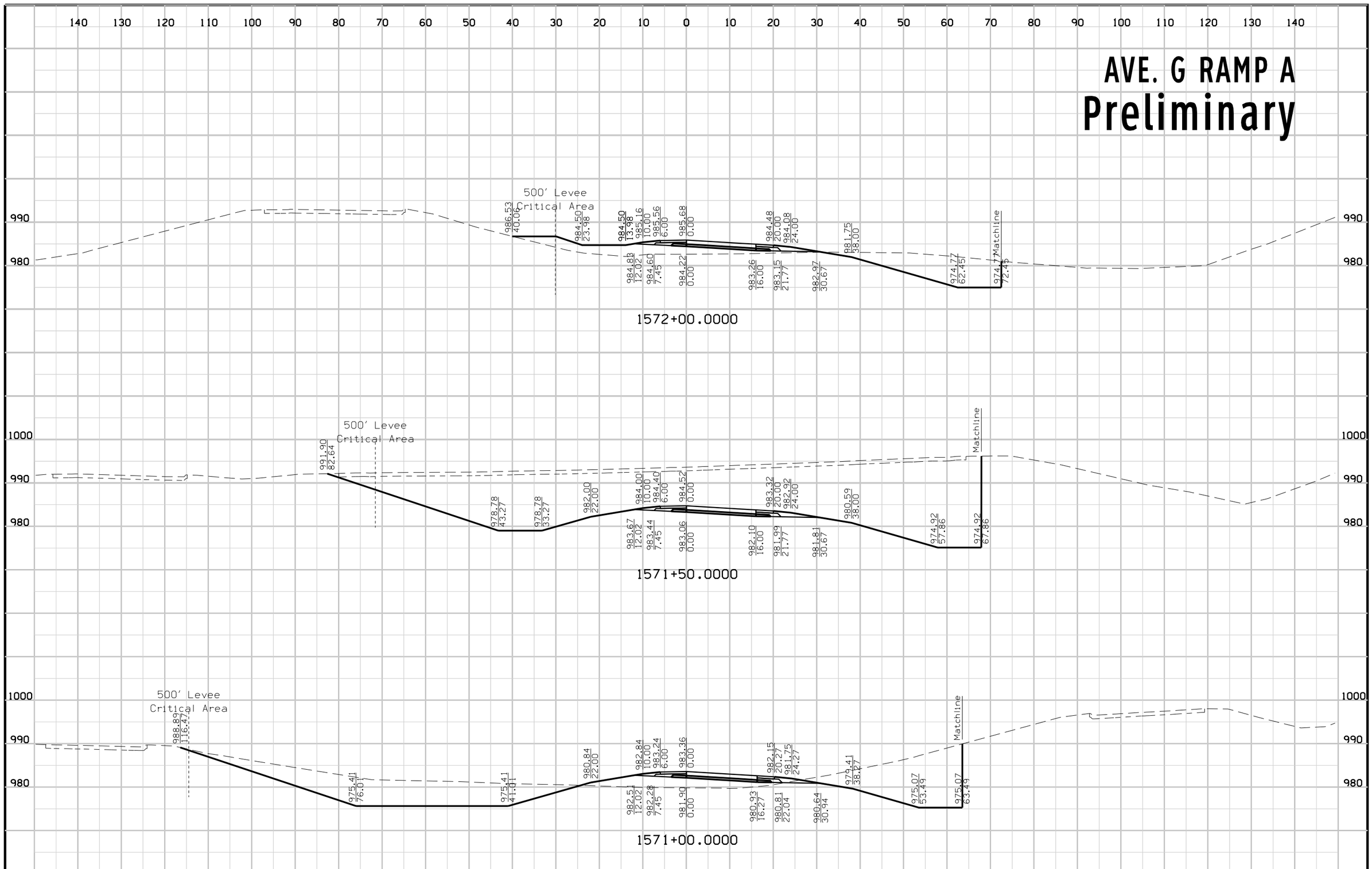
AVE. G RAMP A
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER	Y.77

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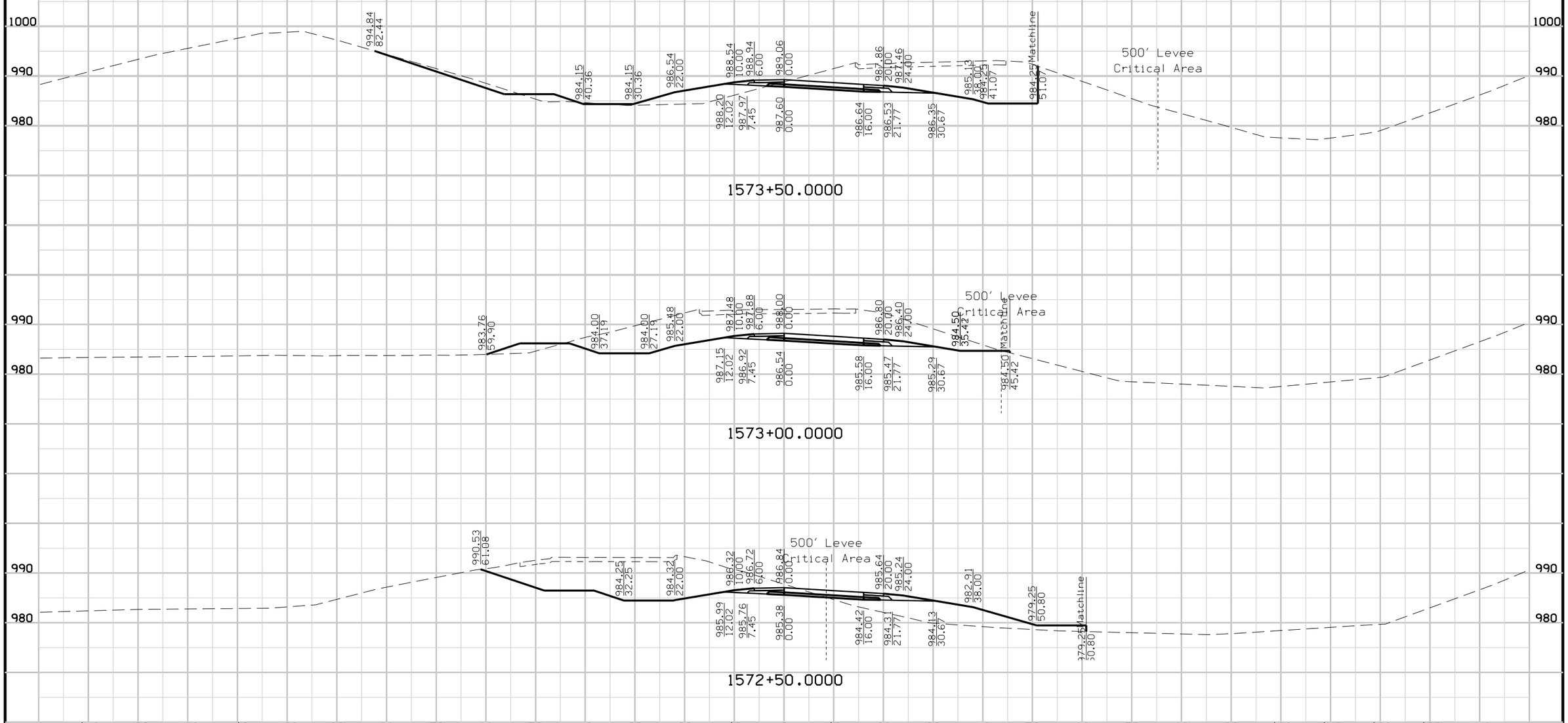
AVE. G RAMP A
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER	Y.78

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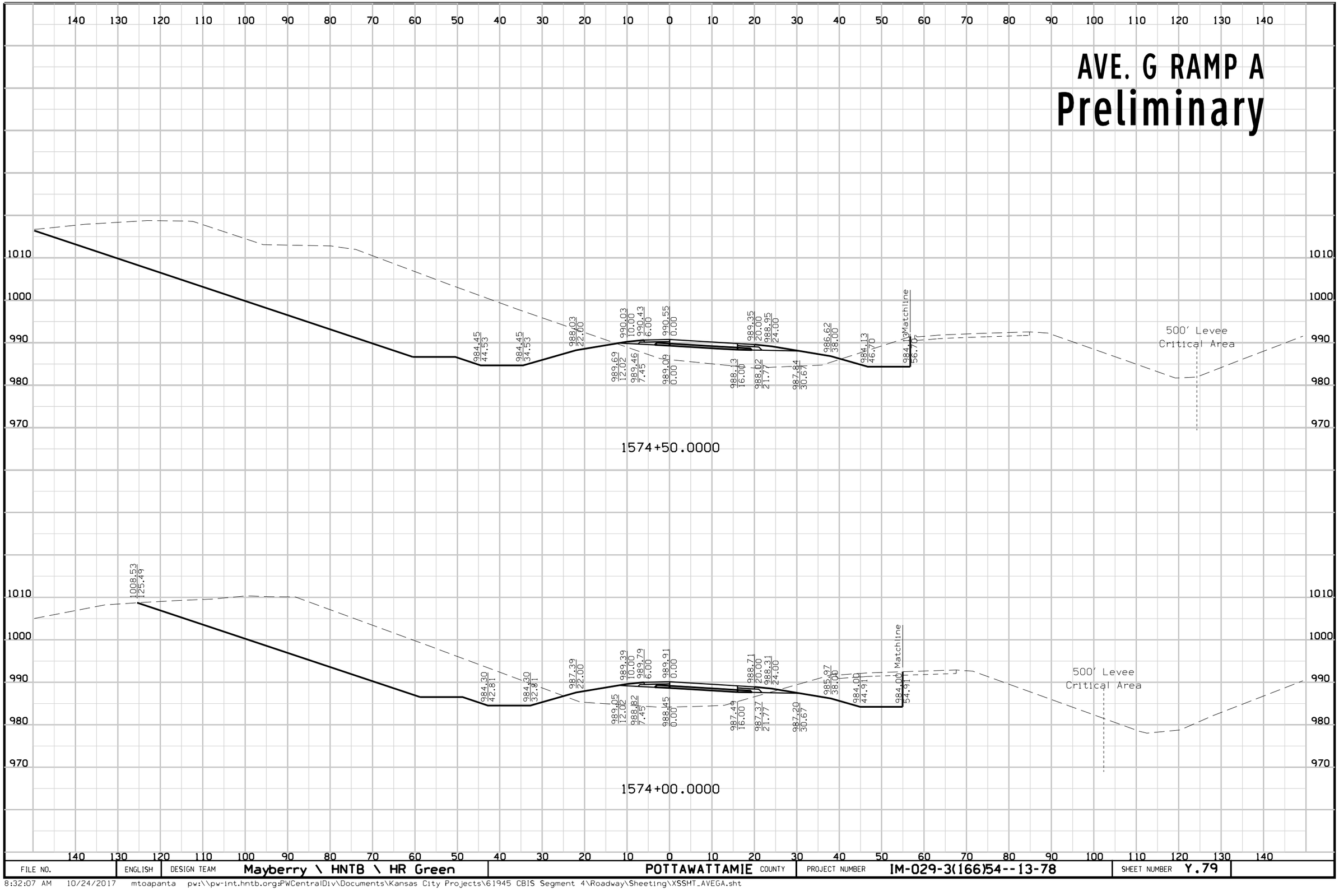
AVE. G RAMP A
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER	Y.79

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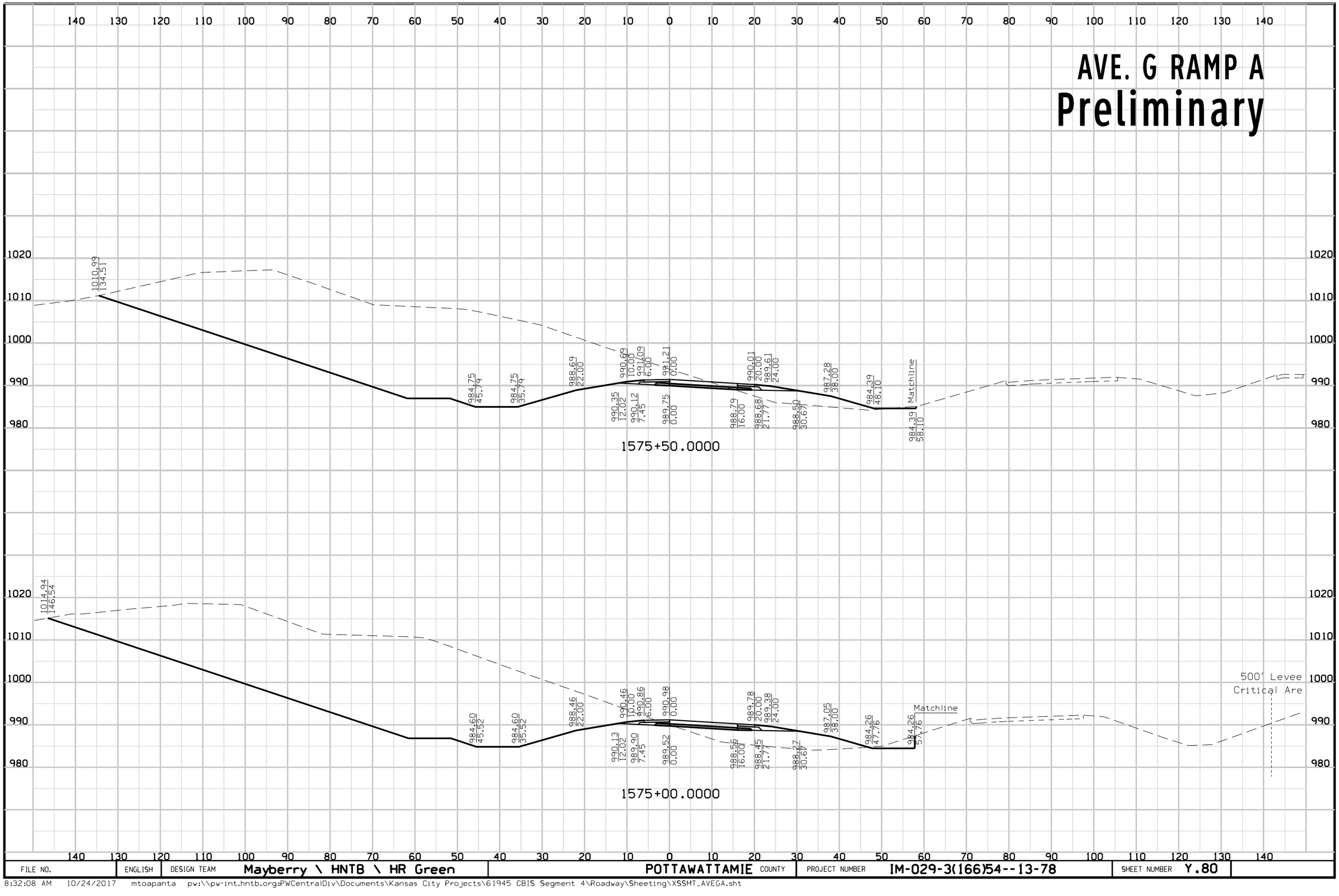
AVE. G RAMP A

Preliminary

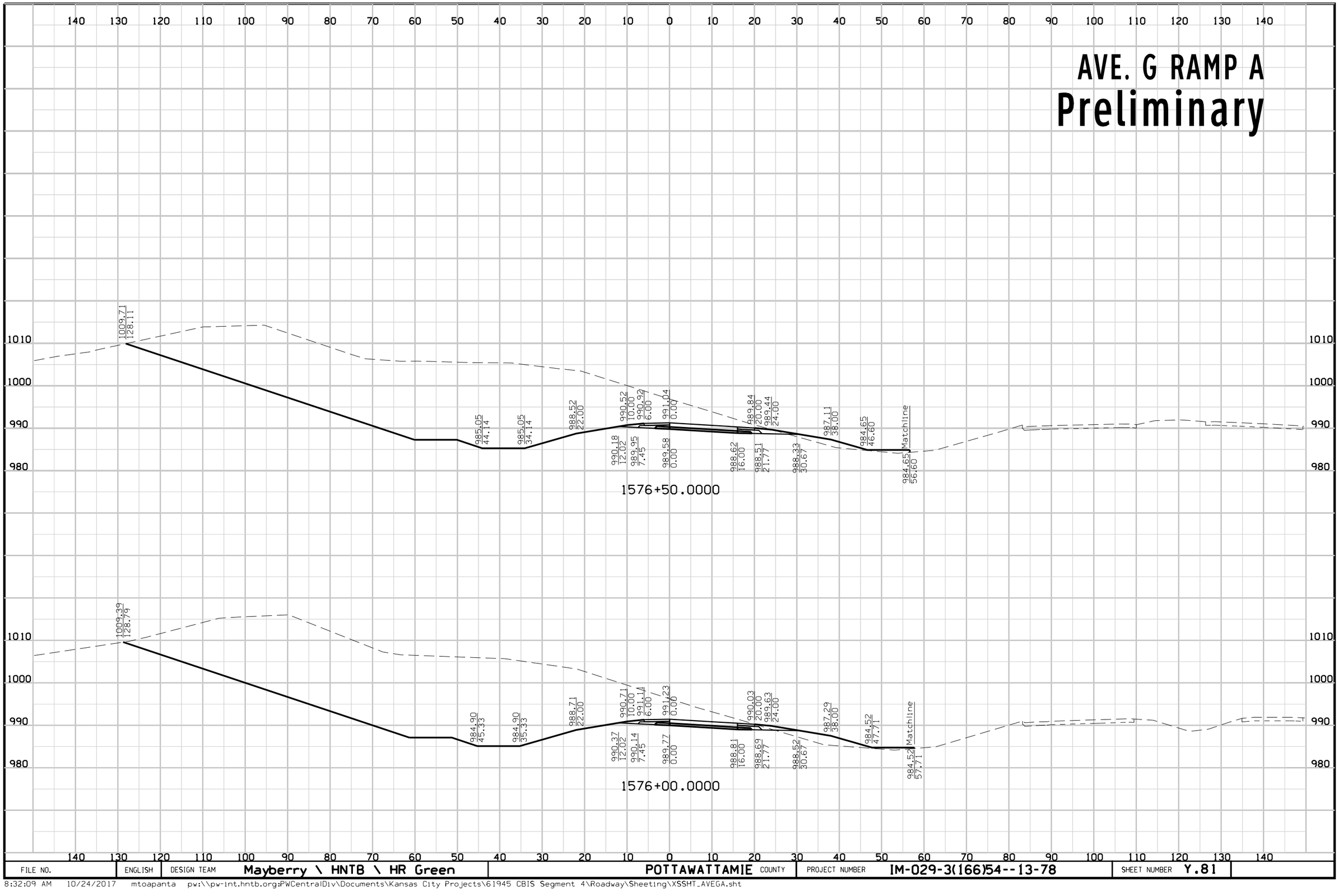


FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER	Y.80

8:32:08 AM 10/24/2017 mtoapanta pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\XSSHT_AVEGA.sht

AVE. G RAMP A

Preliminary



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER	Y.81

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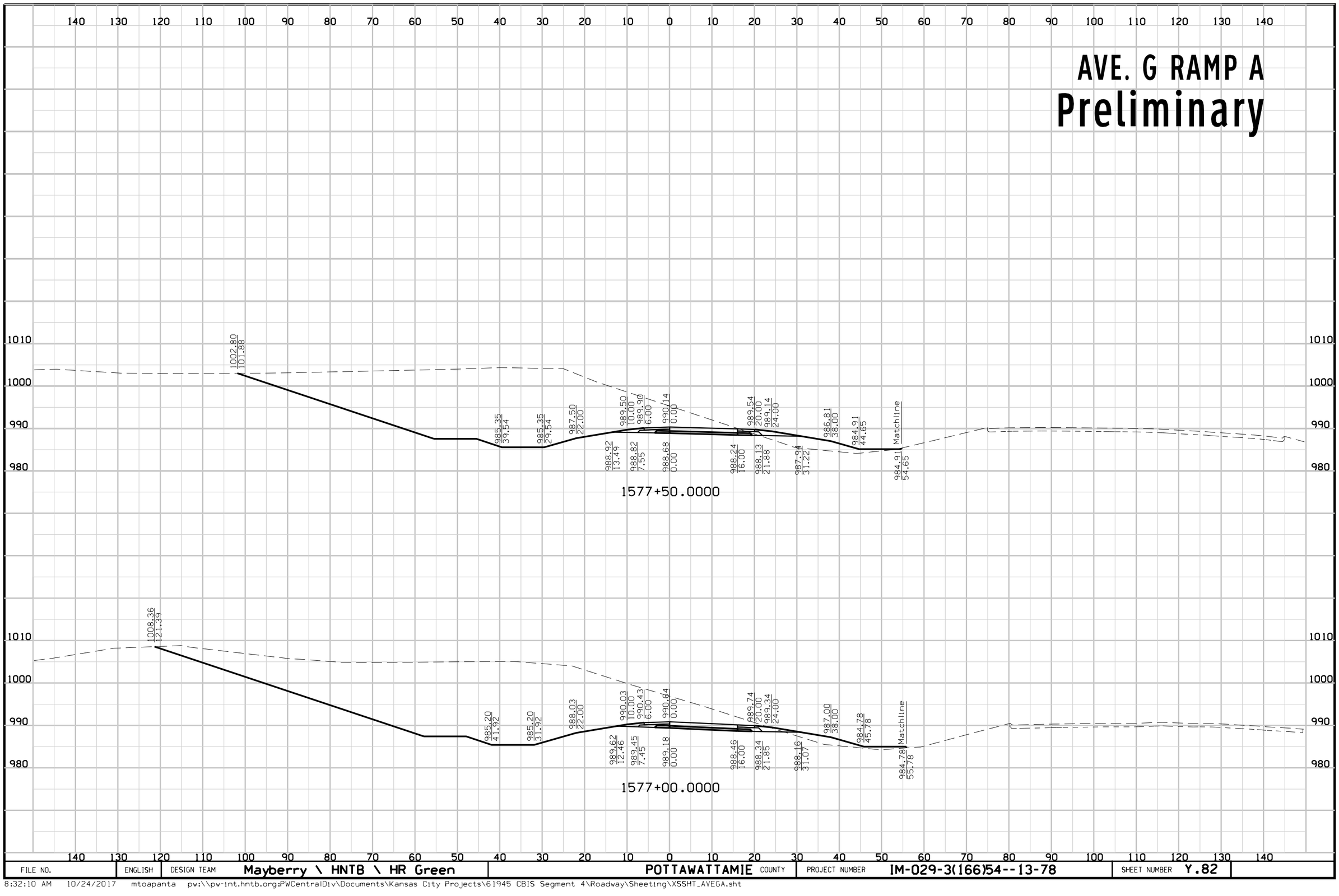
AVE. G RAMP A

Preliminary



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER	Y.82

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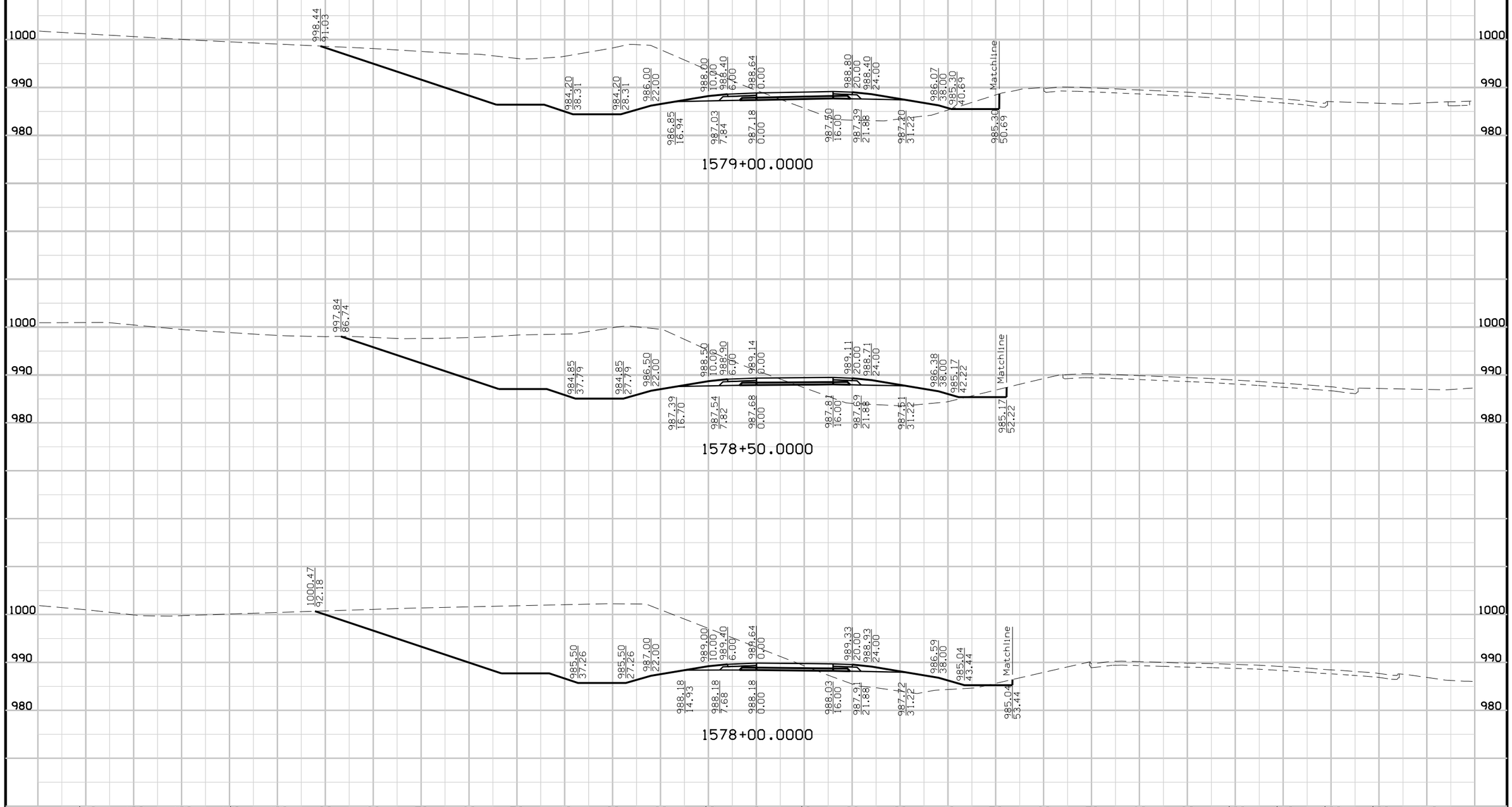
AVE. G RAMP A

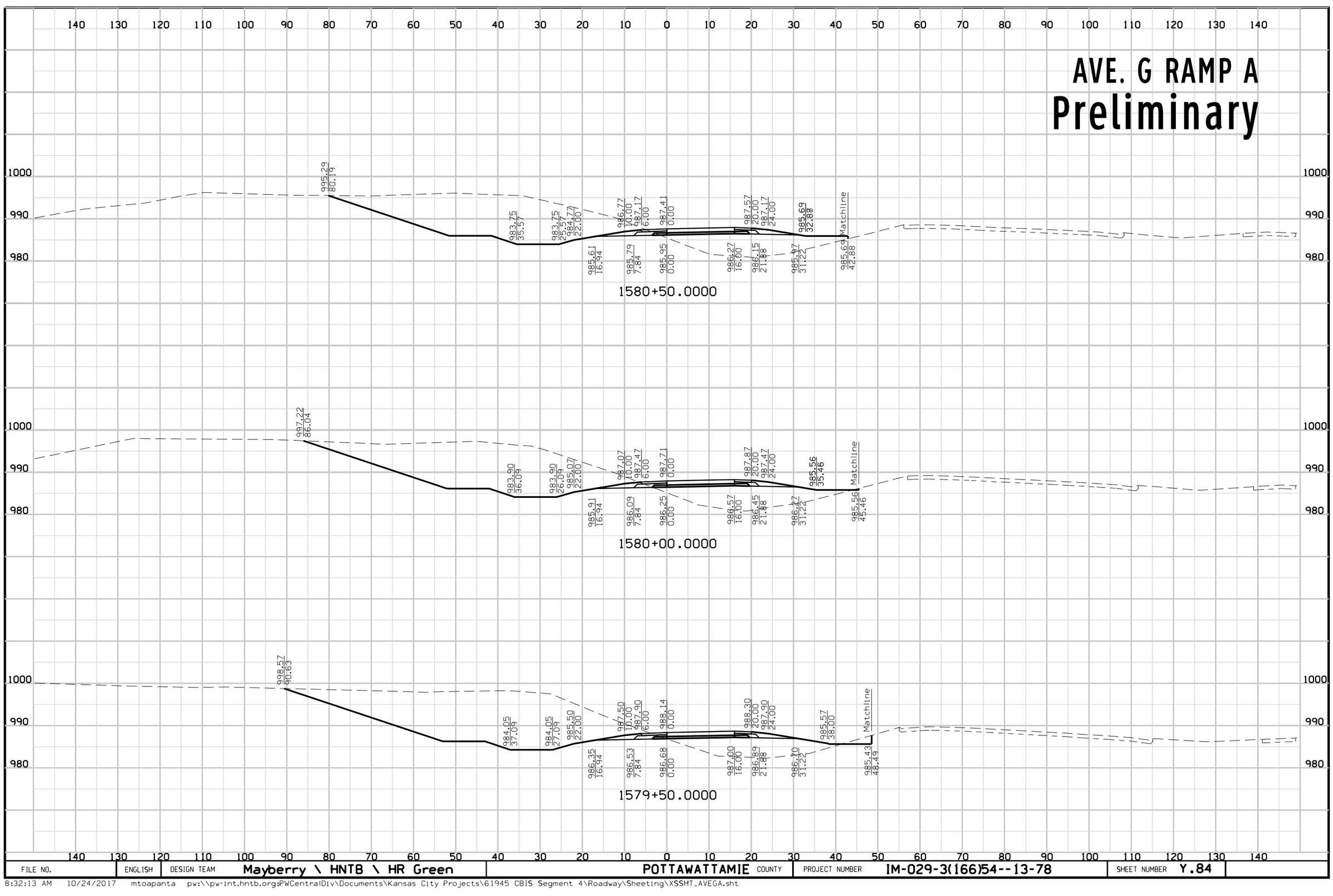
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER	Y.83

8:32:11 AM 10/24/2017 mtoapanta pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\XSSHT_AVEGA.sht

AVE. G RAMP A
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER	Y.84

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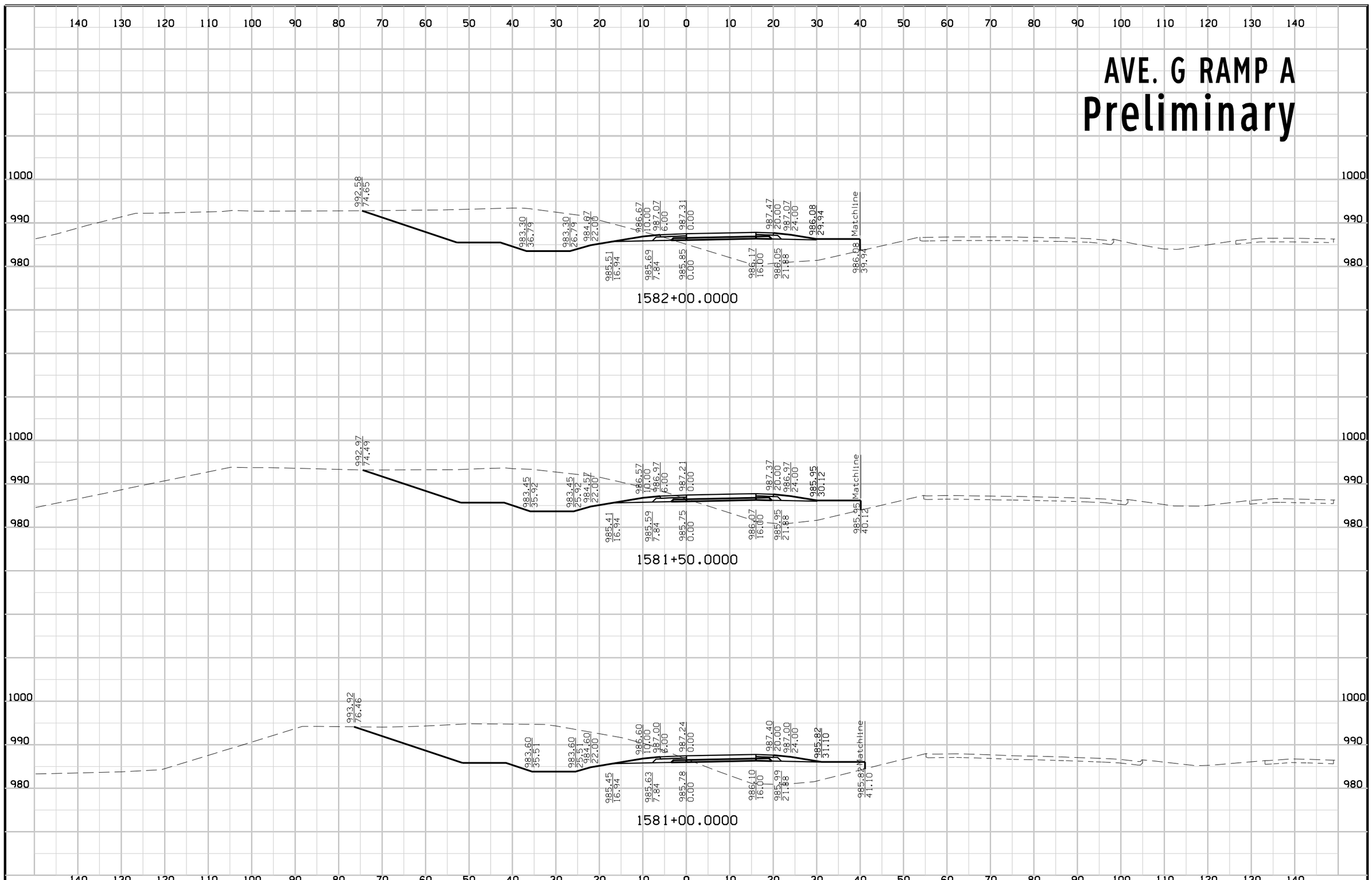
AVE. G RAMP A

Preliminary

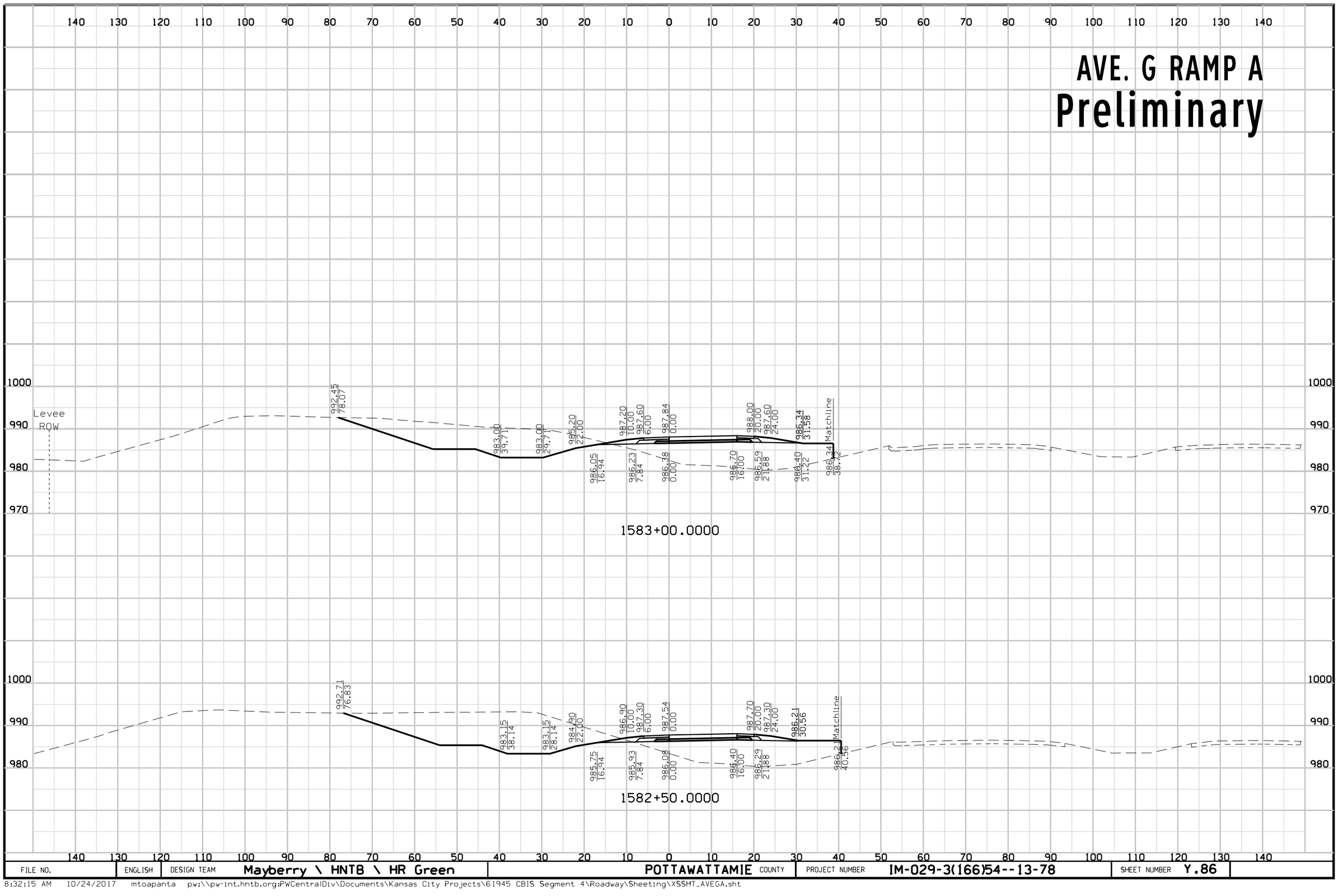


FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER	Y.85

8:32:14 AM 10/24/2017 mtoapanta pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\XSSHT_AVEGA.sht

AVE. G RAMP A

Preliminary



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER	Y.86

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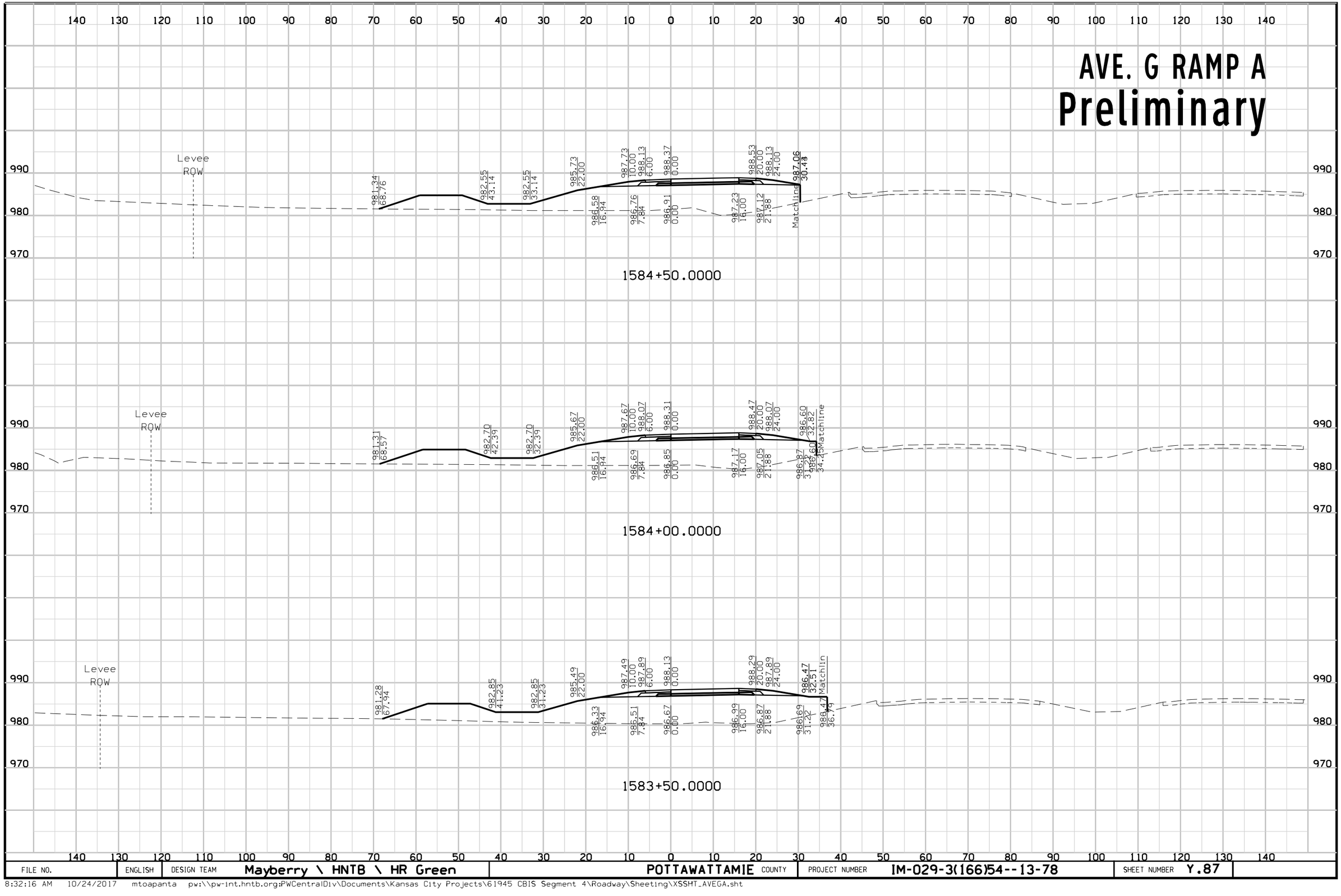
AVE. G RAMP A
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER	Y.87

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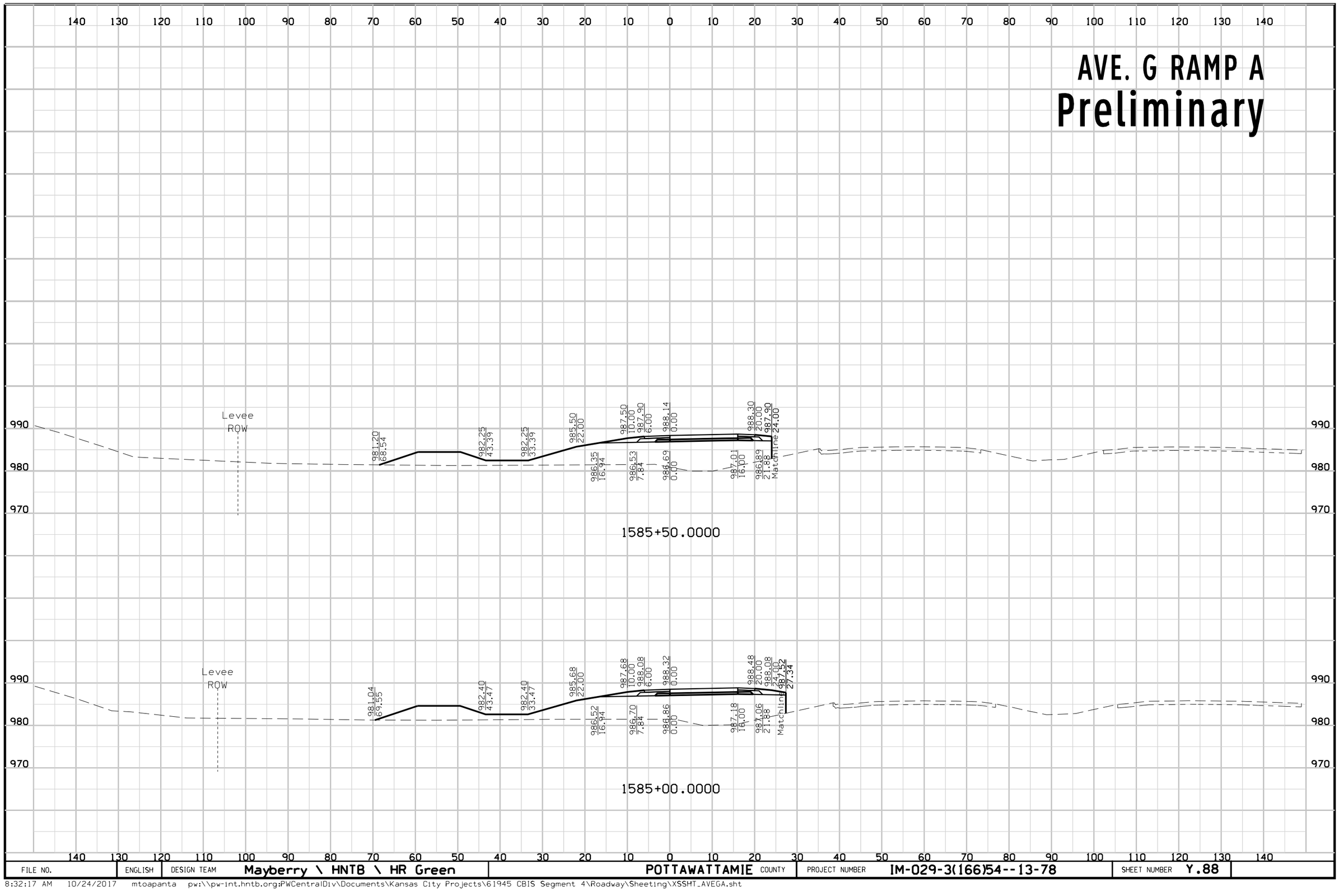
AVE. G RAMP A

Preliminary



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER	Y.88

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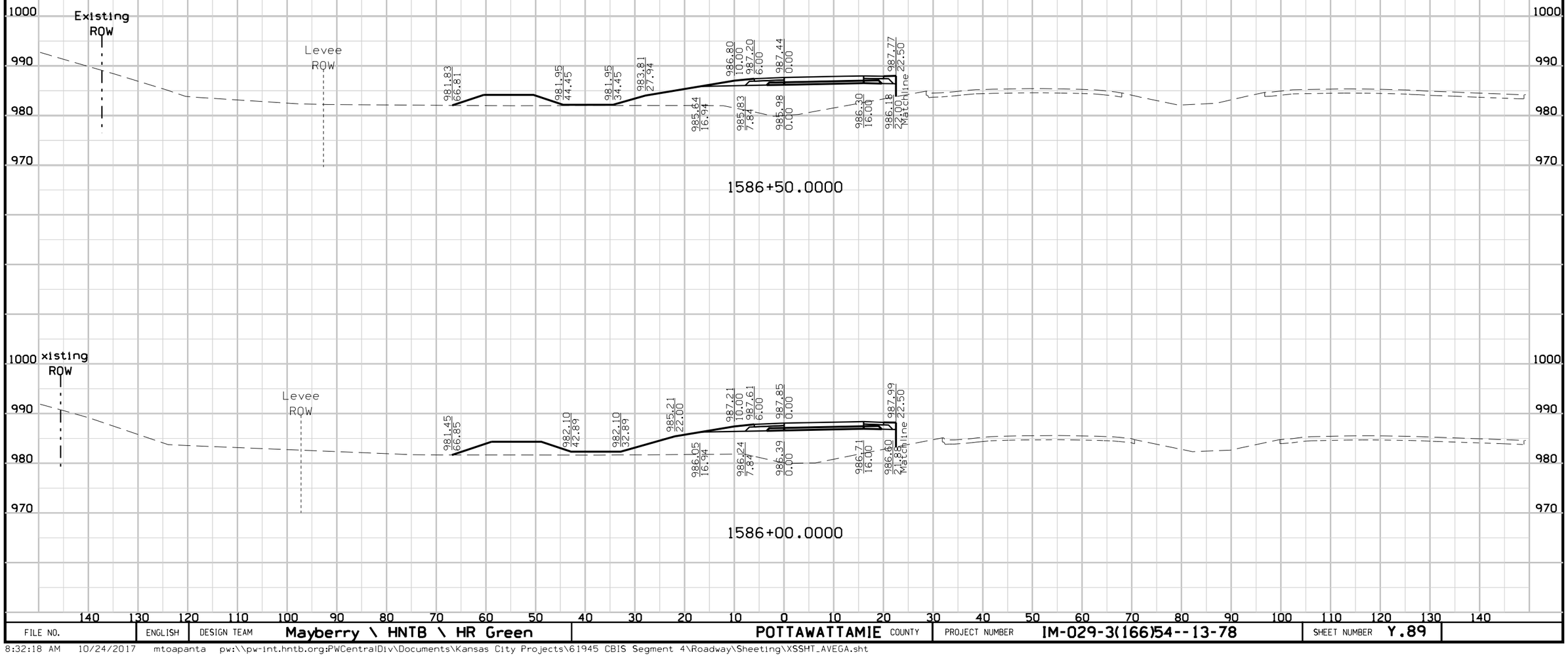
AVE. G RAMP A
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER	Y.89

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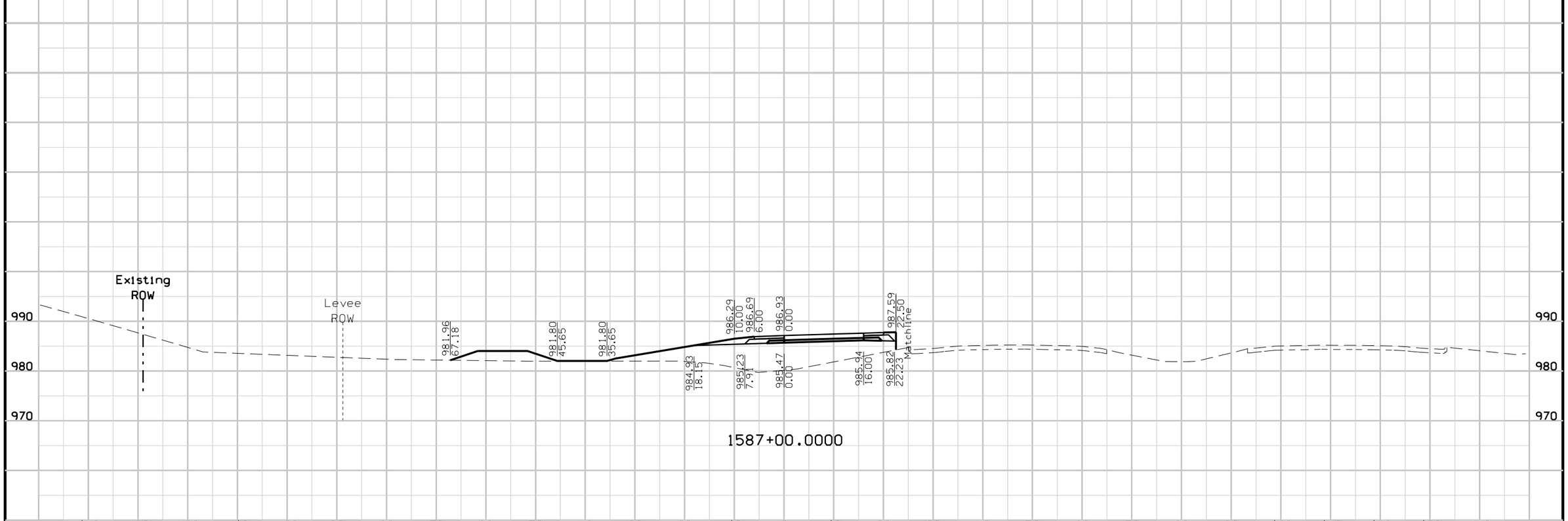
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER	Y.90

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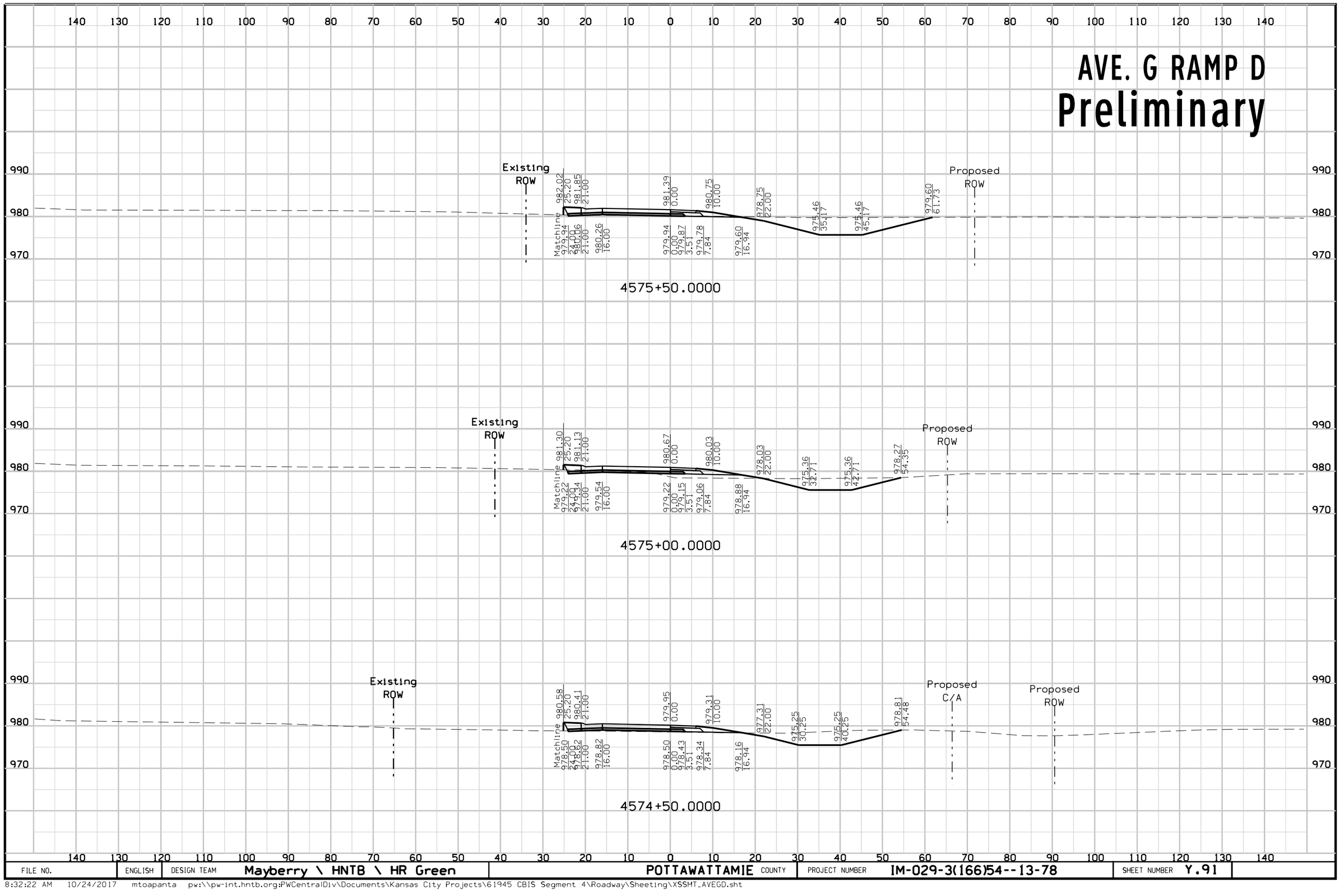
AVE. G RAMP D

Preliminary



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER	Y.91

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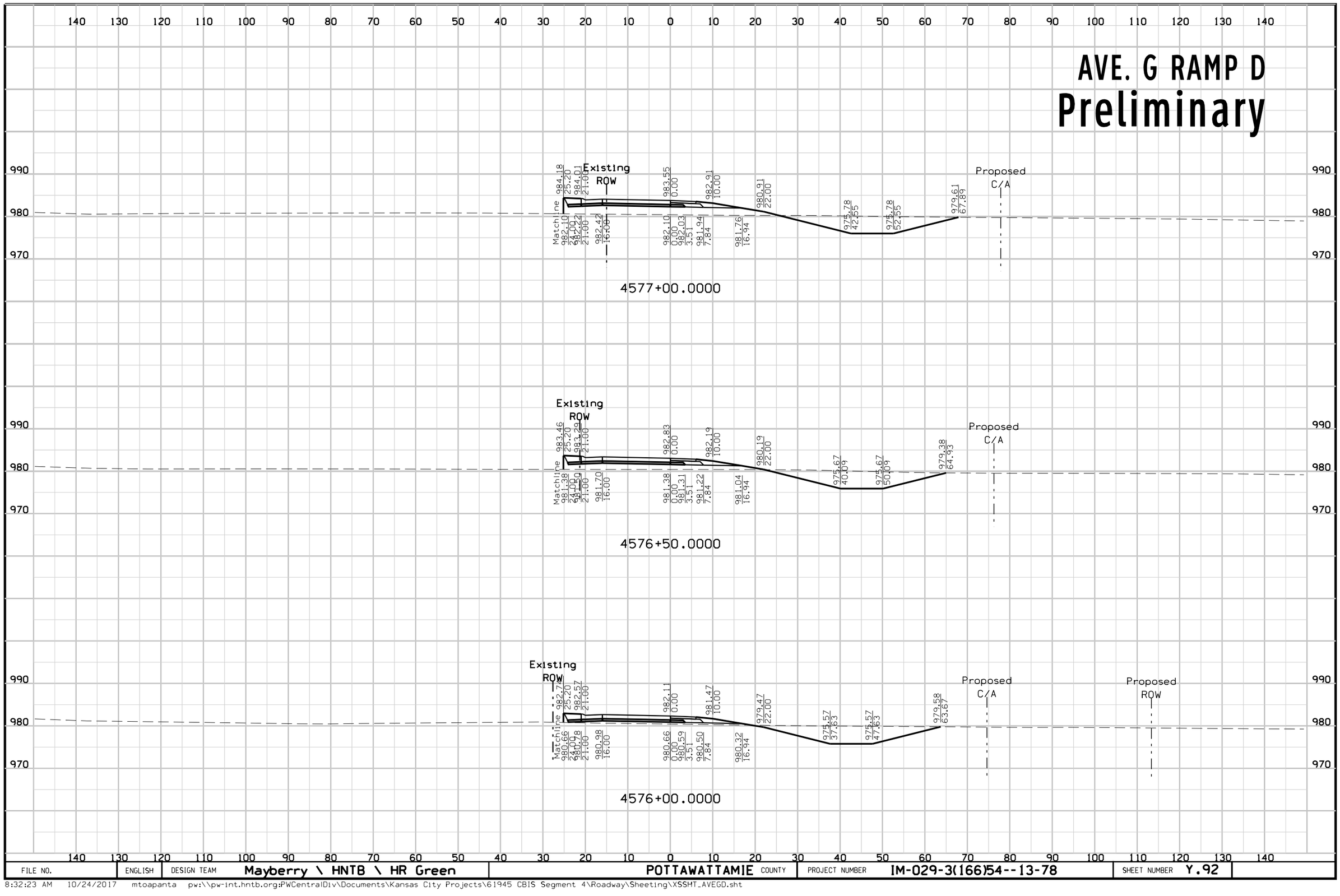
AVE. G RAMP D

Preliminary



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER	Y.92

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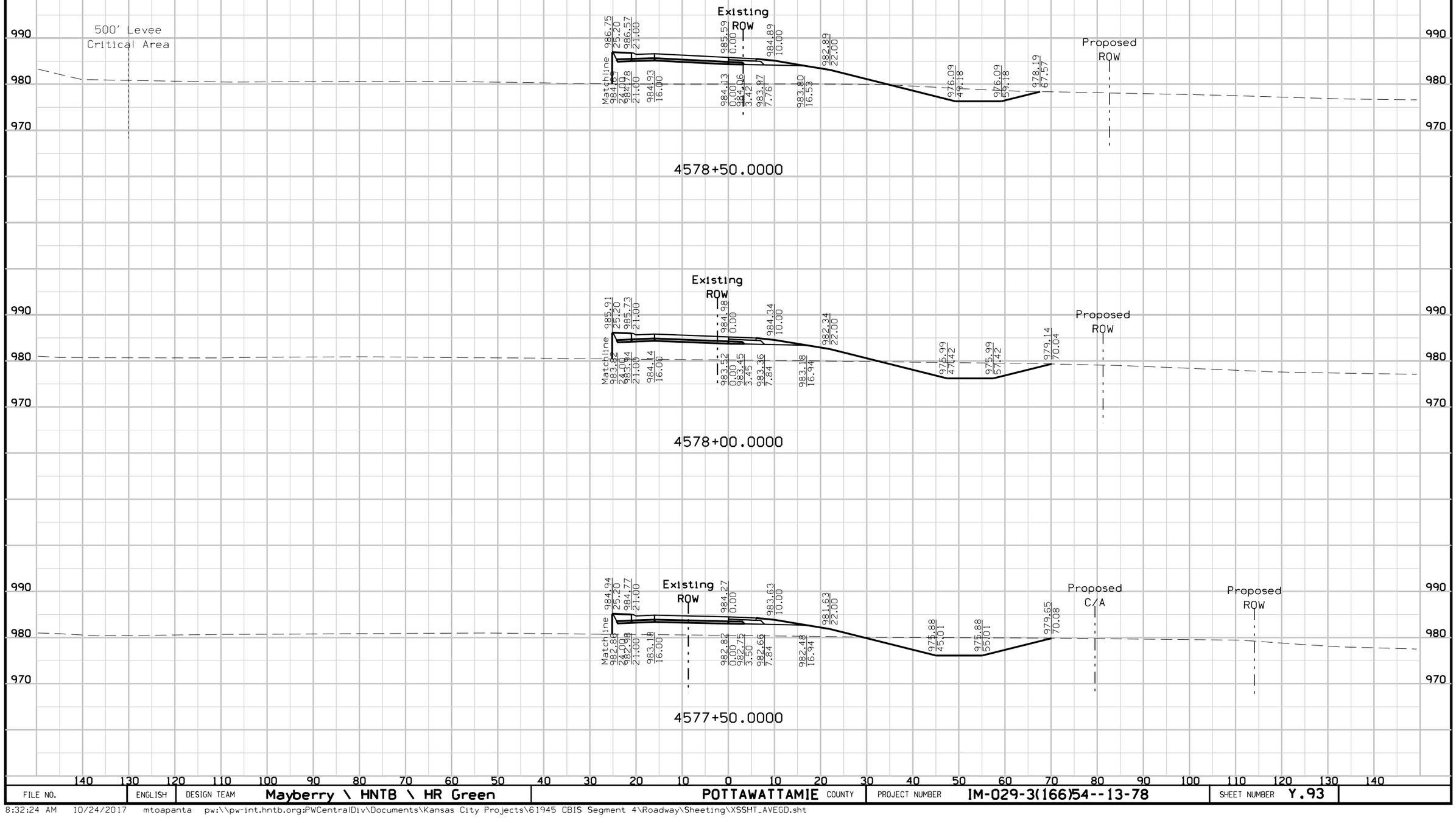
Preliminary

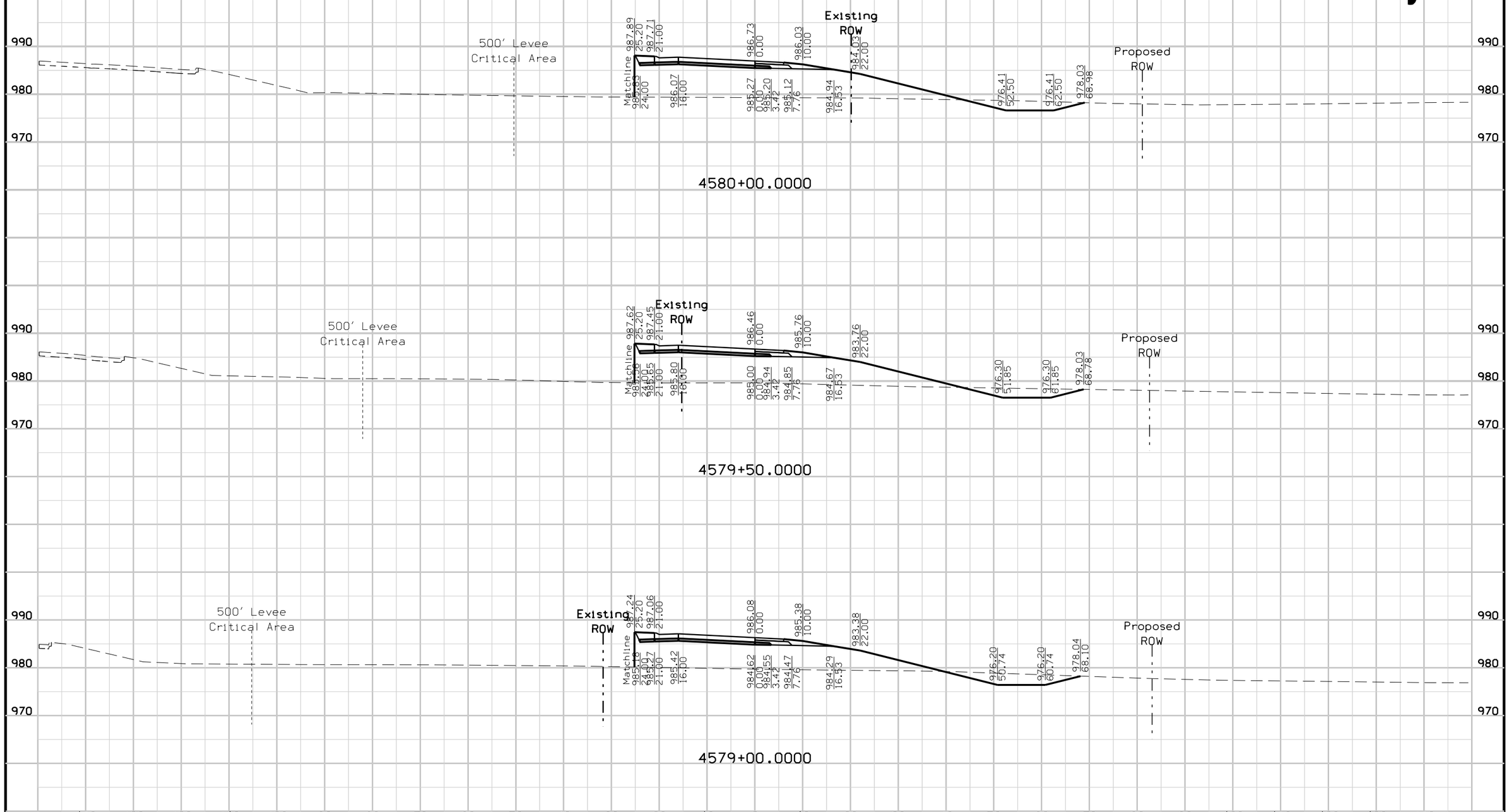


FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER	Y.93

8:32:24 AM 10/24/2017 mtoapanta pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\XSSHT_AVEGD.sht

AVE. G RAMP D

Preliminary



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER	Y.94

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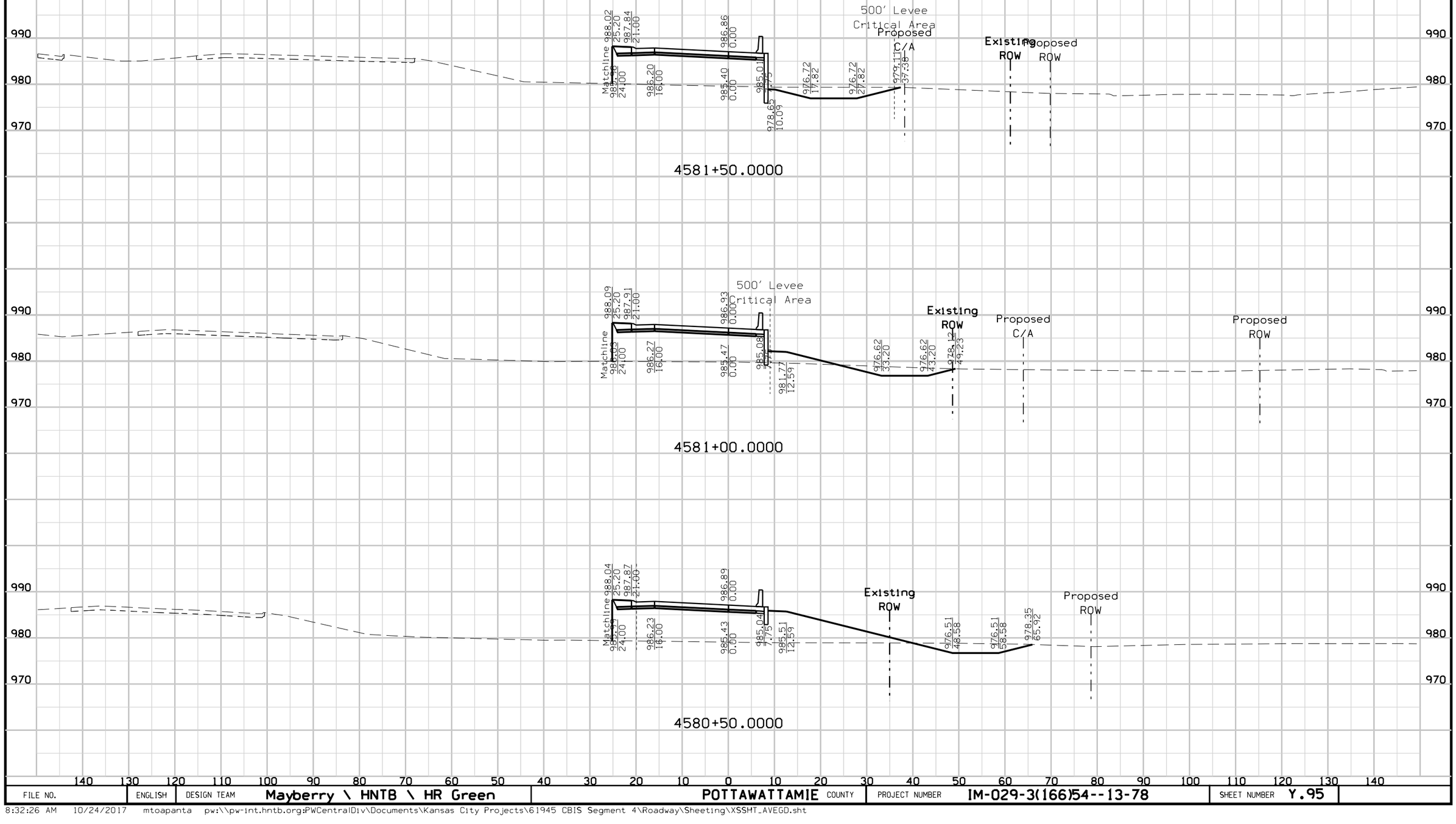
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER	Y.95

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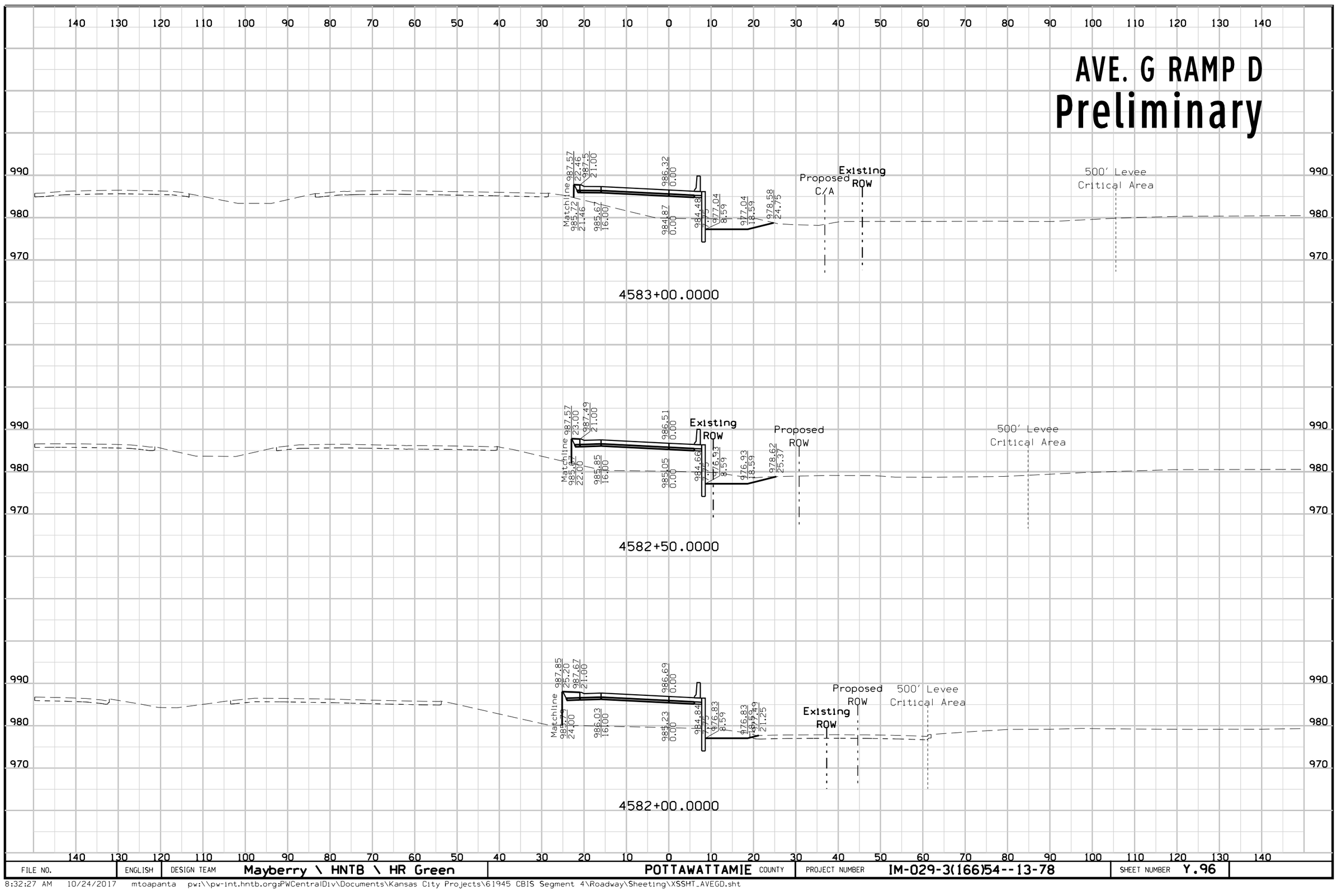
Preliminary



FILE NO.	ENGLISH	DESIGN TEAM	Mayberry \ HNTB \ HR Green	POTTAWATTAMIE COUNTY	PROJECT NUMBER	IM-029-3(166)54--13-78	SHEET NUMBER	Y.96

8:32:27 AM 10/24/2017 mtoapanta pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Kansas City Projects\61945 CBIS Segment 4\Roadway\Sheeting\XSSHT_AVEGD.sht