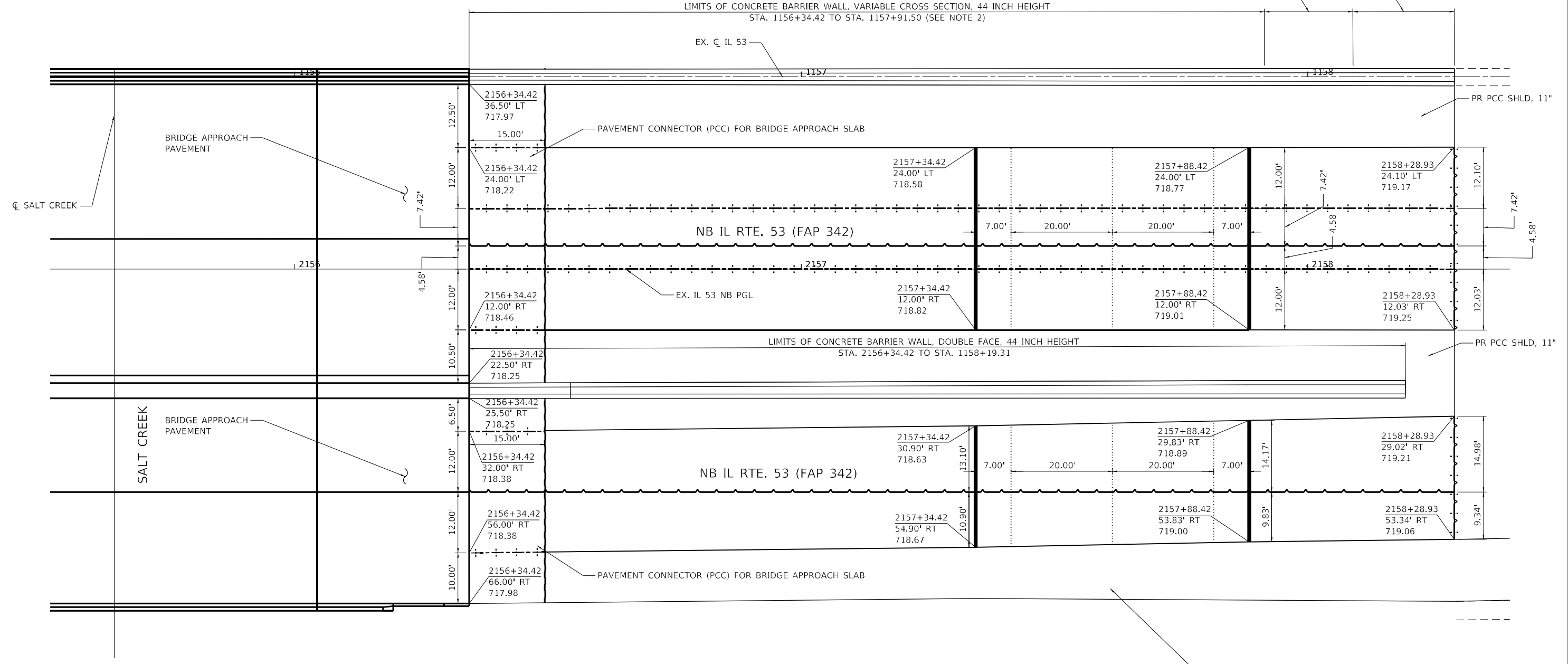


LIMITS OF CONCRETE BARRIER TRANSITION
STA. 1158+08.93 TO STA. 1158+28.93

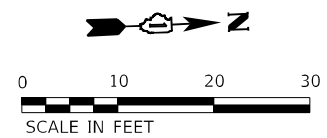
LIMITS OF CONCRETE BARRIER WALL, DOUBLE FACE, 44 INCH HEIGHT
STA. 1157+91.50 TO STA. 1158+08.93

LIMITS OF CONCRETE BARRIER WALL, VARIABLE CROSS SECTION, 44 INCH HEIGHT
STA. 1156+34.42 TO STA. 1157+91.50 (SEE NOTE 2)



LEGEND:

- - - - - LONGITUDINAL SAWED JOINTS No. 6 EPOXY COATED TIE BARS AT 36" CTS
- ~ ~ ~ ~ ~ LONGITUDINAL CONSTRUCTION JOINT DRILL AND GROUT No. 6 EPOXY COATED TIE BARS AT 36" CTS.
- · - · - · TRANSVERSE CONSTRUCTION JOINT, DRILL AND GROUT 9 No. 6 EPOXY COATED TIE BARS EVENLY SPACED ACROSS 12' WIDTH
- ▬ TRANSVERSE EXPANSION JOINT, DRILL AND GROUT DOWEL BARS AT 12" CTS.
- · - · - · TRANSVERSE TERMINAL JOINT
- ⋯ PROPOSED LUG CL



**SN #016-0377 - NB IL 53 OVER SALT CREEK
NORTH APPROACH**

NOTES:

1. SEE STANDARD BD-27 FOR ADDITIONAL MEDIAN BARRIER TRANSITION DETAILS
2. LIGHT POLE FOUNDATION OMISSION STA. 1157+48.00 TO STA. 1157+58.00
3. SEE APPLICABLE HIGHWAY STANDARDS FOR DETAILS OF JOINTS NOT SHOWN

MODEL Path: I:\300-6399\3481\13\Drawings\CAD\Micro-SSA\CAD_Sheets\C2-D\62N91-Int-Appr-Details-07-5.dwg
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Creek-5A.dgn

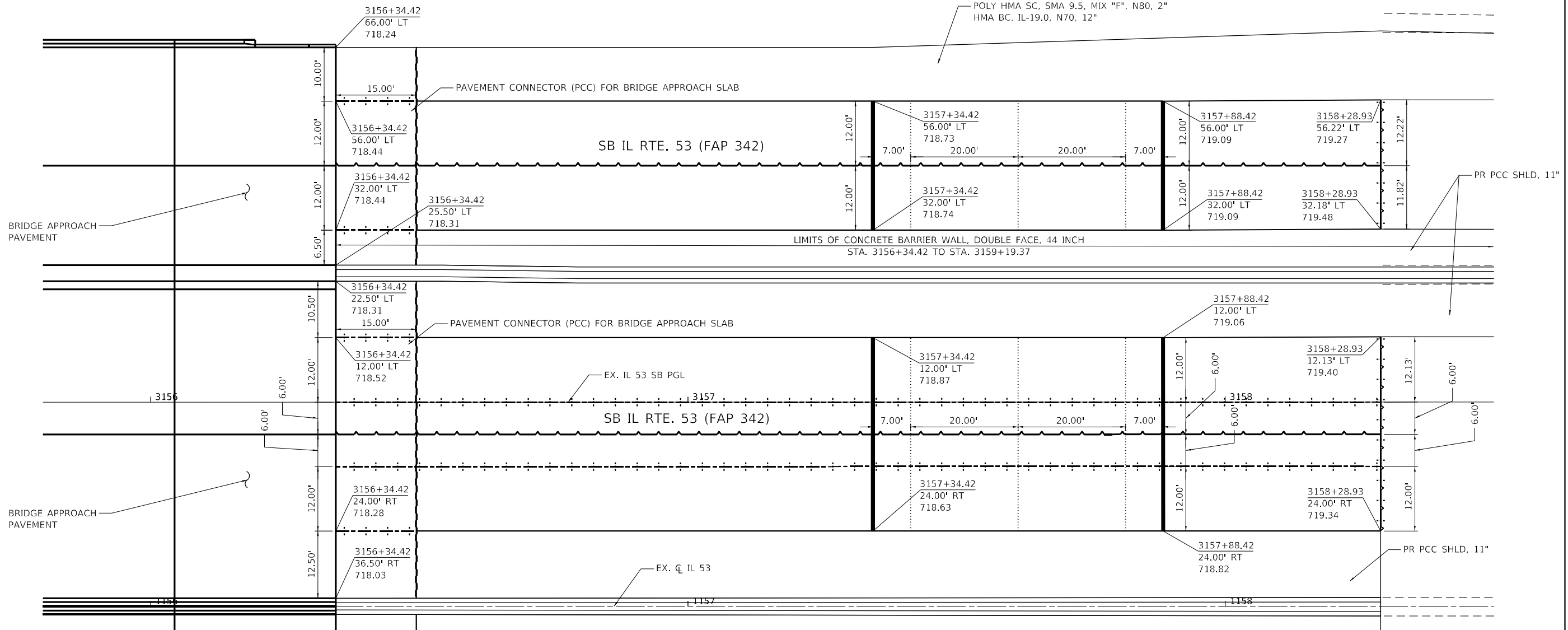
 1170 SOUTH HOUBOLT ROAD JOLIET, ILLINOIS 60431 (815) 744-4200	USER NAME = StevenB	DESIGNED - SRB	REVISED -
		DRAWN - DJW	REVISED -
	PLOT SCALE = 20,0000' / in.	CHECKED - MAG	REVISED -
	PLOT DATE = 12/13/2024	DATE - 12/13/24	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

BRIDGE APPROACH DETAILS	
SCALE: 1" = 10'	SHEET 7 OF 12 SHEETS
STA.	TO STA.

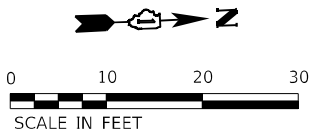
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
342	2018-100-BR	COOK	1351	401
CONTRACT NO. 62N91				
ILLINOIS FED. AID PROJECT				

SALT CREEK



LEGEND:

- - - - - LONGITUDINAL SAWED JOINTS No. 6 EPOXY COATED TIE BARS AT 36" CTS
- - - - - LONGITUDINAL CONSTRUCTION JOINT DRILL AND GROUT No. 6 EPOXY COATED TIE BARS AT 36" CTS.
- - - - - TRANSVERSE CONSTRUCTION JOINT, DRILL AND GROUT 9 No. 6 EPOXY COATED TIE BARS EVENLY SPACED ACROSS 12' WIDTH
- - - - - TRANSVERSE EXPANSION JOINT, DRILL AND GROUT DOWEL BARS AT 12" CTS.
- - - - - TRANSVERSE TERMINAL JOINT
- PROPOSED LUG CL



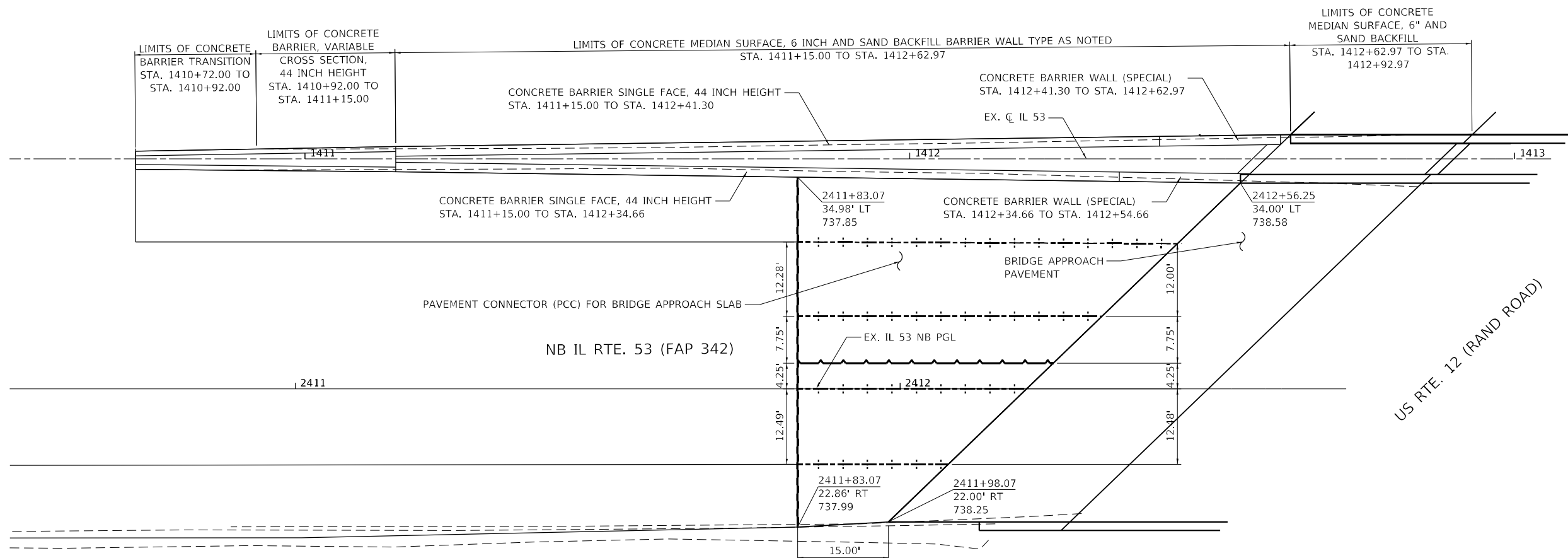
**SN #016-0377 - SB IL 53 OVER SALT CREEK
NORTH APPROACH**

NOTES:

1. SEE STANDARD BD-27 FOR ADDITIONAL MEDIAN BARRIER TRANSITION DETAILS
2. SEE APPLICABLE HIGHWAY STANDARDS FOR DETAILS OF JOINTS NOT SHOWN
3. SEE NB IL 53 OVER SALT CREEK NORTH APPROACH FOR CENTER MEDIAN BARRIER DETAILS ON SHEET 401

MODEL: D:\p\h\1130\Drawings\CAD\Micros-SA\CAD_Sheets\C2-01\B2N91-Nth-Appr-Details-08-Sht-Creek-SA.dwg

<p>1170 SOUTH HOUBOLT ROAD JOLIET, ILLINOIS 60431 (815) 744-4200</p>	USER NAME = StevenB	DESIGNED - SRB	REVISED -	<p align="center">STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</p>	<p align="center">BRIDGE APPROACH DETAILS</p>			F.A.P. RTE. 342	SECTION 2018-100-BR	COUNTY COOK	TOTAL SHEETS 1351	SHEET NO. 402
	PLOT SCALE = 20,0000 * / in.	CHECKED - MAG	REVISED -		SCALE: 1" = 10'	SHEET 8	OF 12 SHEETS	STA.	TO STA.	CONTRACT NO. 62N91		
	PLOT DATE = 12/13/2024	DATE - 12/13/24	REVISED -					ILLINOIS FED. AID PROJECT				



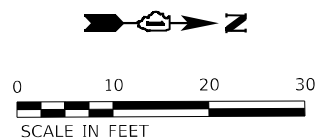
LEGEND:

- LONGITUDINAL SAWED JOINTS No. 6 EPOXY COATED TIE BARS AT 36" CTS
- LONGITUDINAL CONSTRUCTION JOINT DRILL AND GROUT No. 6 EPOXY COATED TIE BARS AT 36" CTS.
- TRANSVERSE CONSTRUCTION JOINT, DRILL AND GROUT 9 No. 6 EPOXY COATED TIE BARS EVENLY SPACED ACROSS 12' WIDTH
- TRANSVERSE EXPANSION JOINT, DRILL AND GROUT DOWEL BARS AT 12" CTS.
- TRANSVERSE TERMINAL JOINT
- PROPOSED LUG C

**SN #016-0973 - NB IL 53 OVER US 12 (RAND ROAD)
SOUTH APPROACH**

NOTES:

1. SEE STANDARD BD-27 FOR ADDITIONAL MEDIAN BARRIER TRANSITION DETAILS
2. SEE APPLICABLE HIGHWAY STANDARDS FOR DETAILS OF JOINTS NOT SHOWN



MODEL: D:\p4\h\1170 South Houbolt Road\1170\Drawings\CADD\MicroSSA\CAD_Sheets\C2-01\B2N91-South-Approach-Detail-20-Rand-Road-SM.dgn

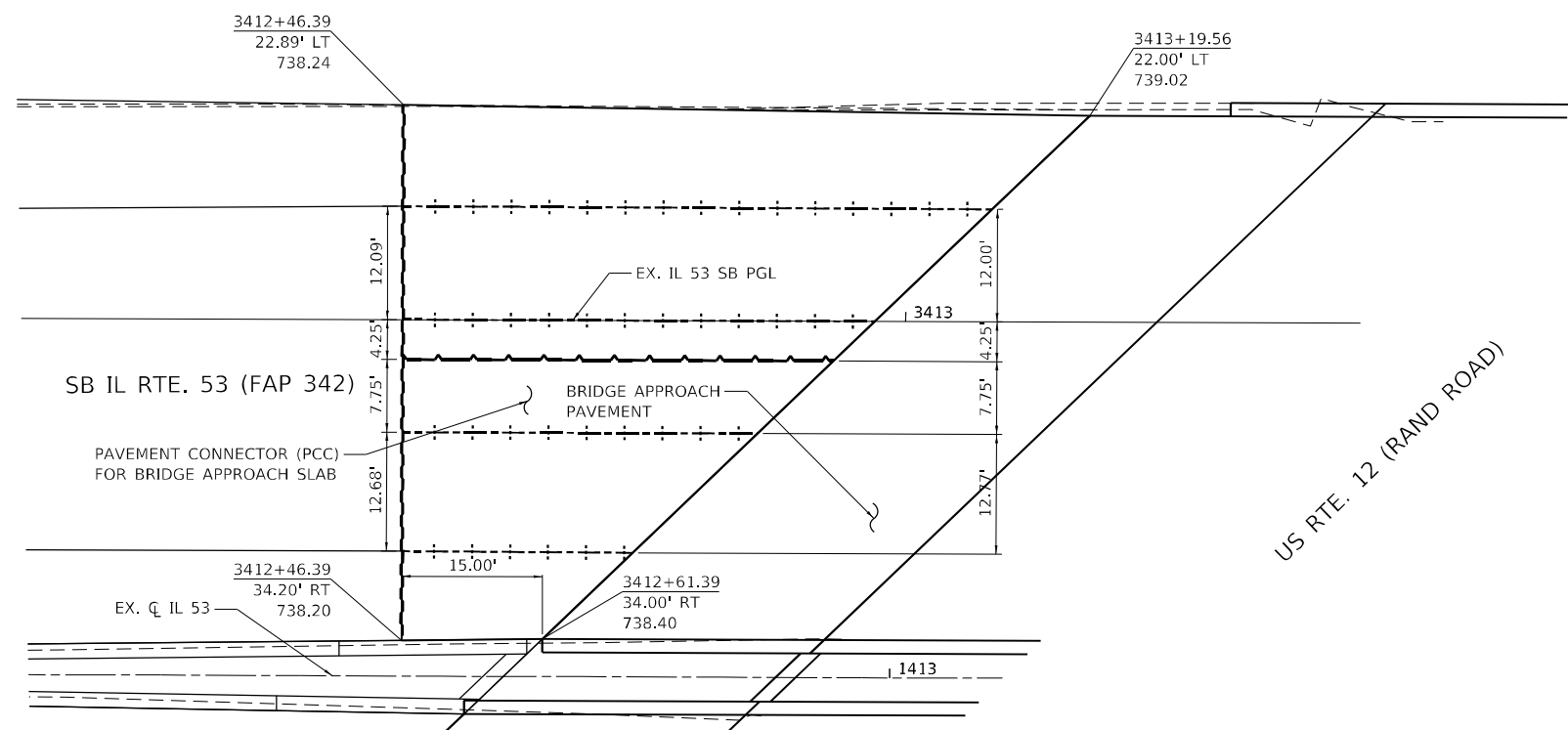


USER NAME = StevenB	DESIGNED - SRB	REVISED -
DRAWN - DJW	REVISOR -	REVISOR -
PLOT SCALE = 20,0000 * / in.	CHECKED - MAG	REVISOR -
PLOT DATE = 12/13/2024	DATE - 12/13/24	REVISOR -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

BRIDGE APPROACH DETAILS			
SCALE: 1" = 10'	SHEET 9	OF 12 SHEETS	STA. TO STA.

F.A.P. RTE. 342	SECTION 2018-100-BR	COUNTY COOK	TOTAL SHEETS 1351	SHEET NO. 403
CONTRACT NO. 62N91				
ILLINOIS FED. AID PROJECT				



LEGEND:

- LONGITUDINAL SAWED JOINTS No. 6 EPOXY COATED TIE BARS AT 36" CTS
- LONGITUDINAL CONSTRUCTION JOINT DRILL AND GROUT No. 6 EPOXY COATED TIE BARS AT 36" CTS.
- TRANSVERSE CONSTRUCTION JOINT, DRILL AND GROUT 9 No. 6 EPOXY COATED TIE BARS EVENLY SPACED ACROSS 12' WIDTH
- TRANSVERSE EXPANSION JOINT, DRILL AND GROUT DOWEL BARS AT 12" CTS.
- TRANSVERSE TERMINAL JOINT
- PROPOSED LUG $\dot{\bar{C}}$

**SN #016-0371 - SB IL 53 OVER US 12 (RAND ROAD)
SOUTH APPROACH**

NOTES:

1. SEE STANDARD BD-27 FOR ADDITIONAL MEDIAN BARRIER TRANSITION DETAILS
2. SEE APPLICABLE HIGHWAY STANDARDS FOR DETAILS OF JOINTS NOT SHOWN
3. SEE NB IL 53 OVER US 12 (RAND ROAD) SOUTH APPROACH FOR BARRIER DETAILS ON SHEET 403



1170 SOUTH HOUBOLT ROAD
JOLIET, ILLINOIS 60431
(815) 744-4200

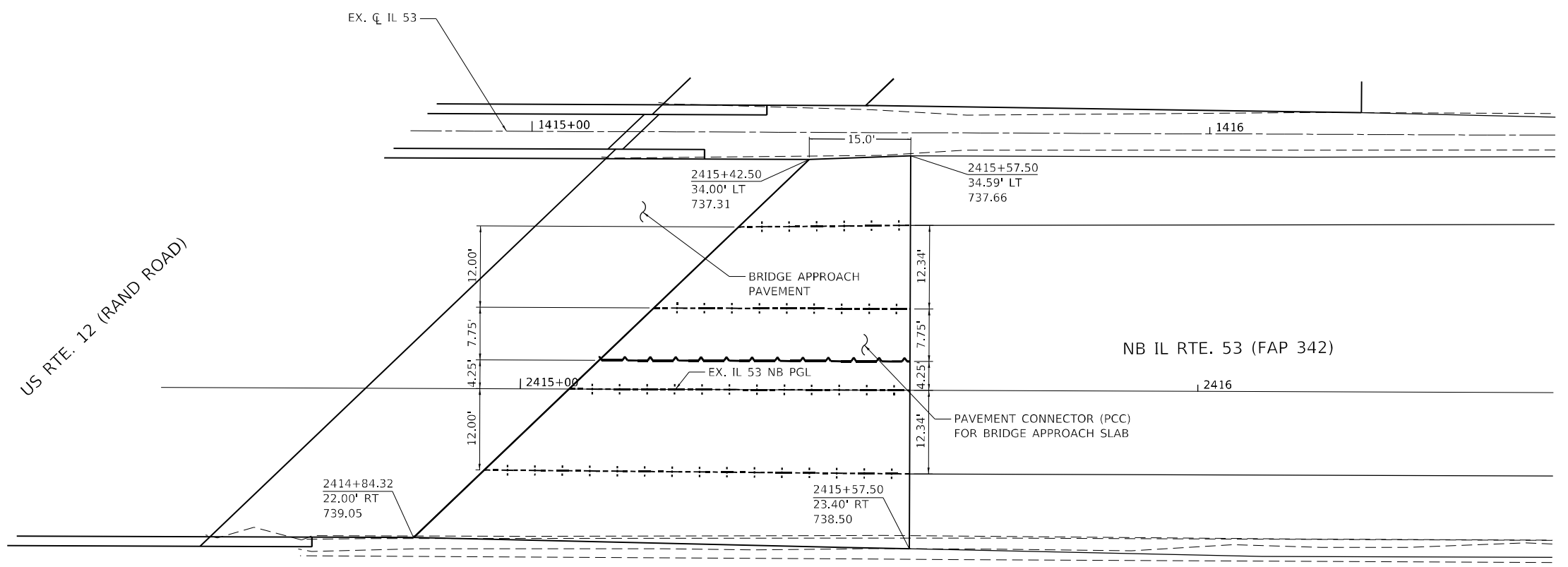
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PLOT DATE = 12/13/2024	CHECKED - MAG	REVISIED -
	DATE - 12/13/24	REVISIED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

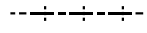

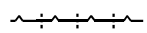

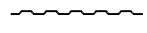
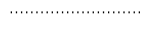
BRIDGE APPROACH DETAILS

SCALE: 1" = 10' SHEET 10 OF 12 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
342	2018-100-BR	COOK	1351	404
CONTRACT NO. 62N91				
ILLINOIS FED. AID PROJECT				



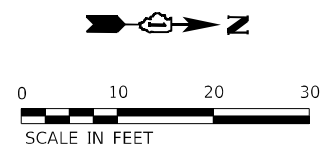
LEGEND:

- 
 LONGITUDINAL SAWED JOINTS No. 6 EPOXY COATED TIE BARS AT 36" CTS
- 
 LONGITUDINAL CONSTRUCTION JOINT DRILL AND GROUT No. 6 EPOXY COATED TIE BARS AT 36" CTS.
- 
 TRANSVERSE CONSTRUCTION JOINT, DRILL AND GROUT 9 No. 6 EPOXY COATED TIE BARS EVENLY SPACED ACROSS 12' WIDTH
- 
 TRANSVERSE EXPANSION JOINT, DRILL AND GROUT DOWEL BARS AT 12" CTS.
- 
 TRANSVERSE TERMINAL JOINT
- 
 PROPOSED LUG CL

**SN #016-0973 - NB IL 53 OVER US 12 (RAND ROAD)
NORTH APPROACH**

NOTES:

1. SEE STANDARD BD-27 FOR ADDITIONAL MEDIAN BARRIER TRANSITION DETAILS
2. SEE APPLICABLE HIGHWAY STANDARDS FOR DETAILS OF JOINTS NOT SHOWN



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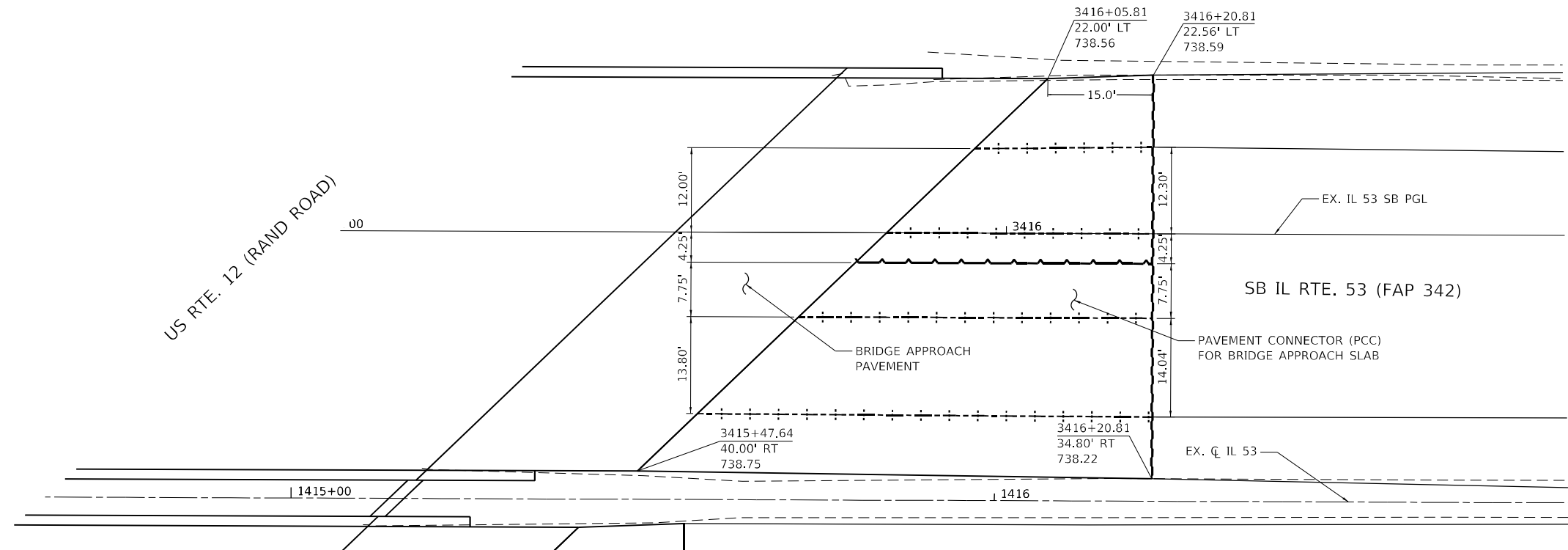


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DRAWN - DJW	REVISIONS	REVISIONS	
PLOT SCALE = 20,0000 * / in.	CHECKED - MAG	REVISIONS	
PLOT DATE = 12/13/2024	DATE - 12/13/24	REVISIONS	

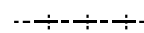

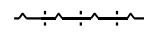

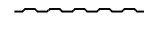

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

BRIDGE APPROACH DETAILS			
SCALE: 1" = 10'	SHEET 11 OF 12 SHEETS	STA. _____	TO STA. _____

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
342	2018-100-BR	COOK	1351	405
CONTRACT NO. 62N91				
ILLINOIS FED. AID PROJECT				



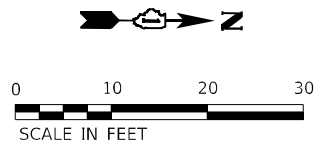
LEGEND:

- 
 LONGITUDINAL SAWED JOINTS No. 6 EPOXY COATED TIE BARS AT 36" CTS
- 
 LONGITUDINAL CONSTRUCTION JOINT DRILL AND GROUT No. 6 EPOXY COATED TIE BARS AT 36" CTS.
- 
 TRANSVERSE CONSTRUCTION JOINT, DRILL AND GROUT 9 No. 6 EPOXY COATED TIE BARS EVENLY SPACED ACROSS 12' WIDTH
- 
 TRANSVERSE EXPANSION JOINT, DRILL AND GROUT DOWEL BARS AT 12" CTS.
- 
 TRANSVERSE TERMINAL JOINT
- 
 PROPOSED LUG CL

**SN #016-0371 - SB IL 53 OVER US 12 (RAND ROAD)
NORTH APPROACH**

NOTES:

1. SEE STANDARD BD-27 FOR ADDITIONAL MEDIAN BARRIER TRANSITION DETAILS
2. SEE APPLICABLE HIGHWAY STANDARDS FOR DETAILS OF JOINTS NOT SHOWN



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USER NAME = StevenB	DESIGNED - SRB	REVISED -
DRAWN - DJW	REVISIONS -	
PLOT SCALE = 20,0000 * / in.	CHECKED - MAG	REVISED -
PLOT DATE = 12/13/2024	DATE - 12/13/24	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

BRIDGE APPROACH DETAILS

SCALE: 1" = 10' SHEET 12 OF 12 SHEETS STA. TO STA.

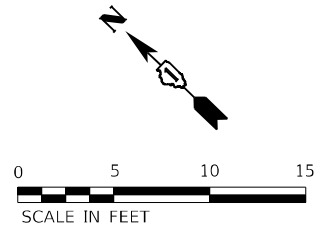
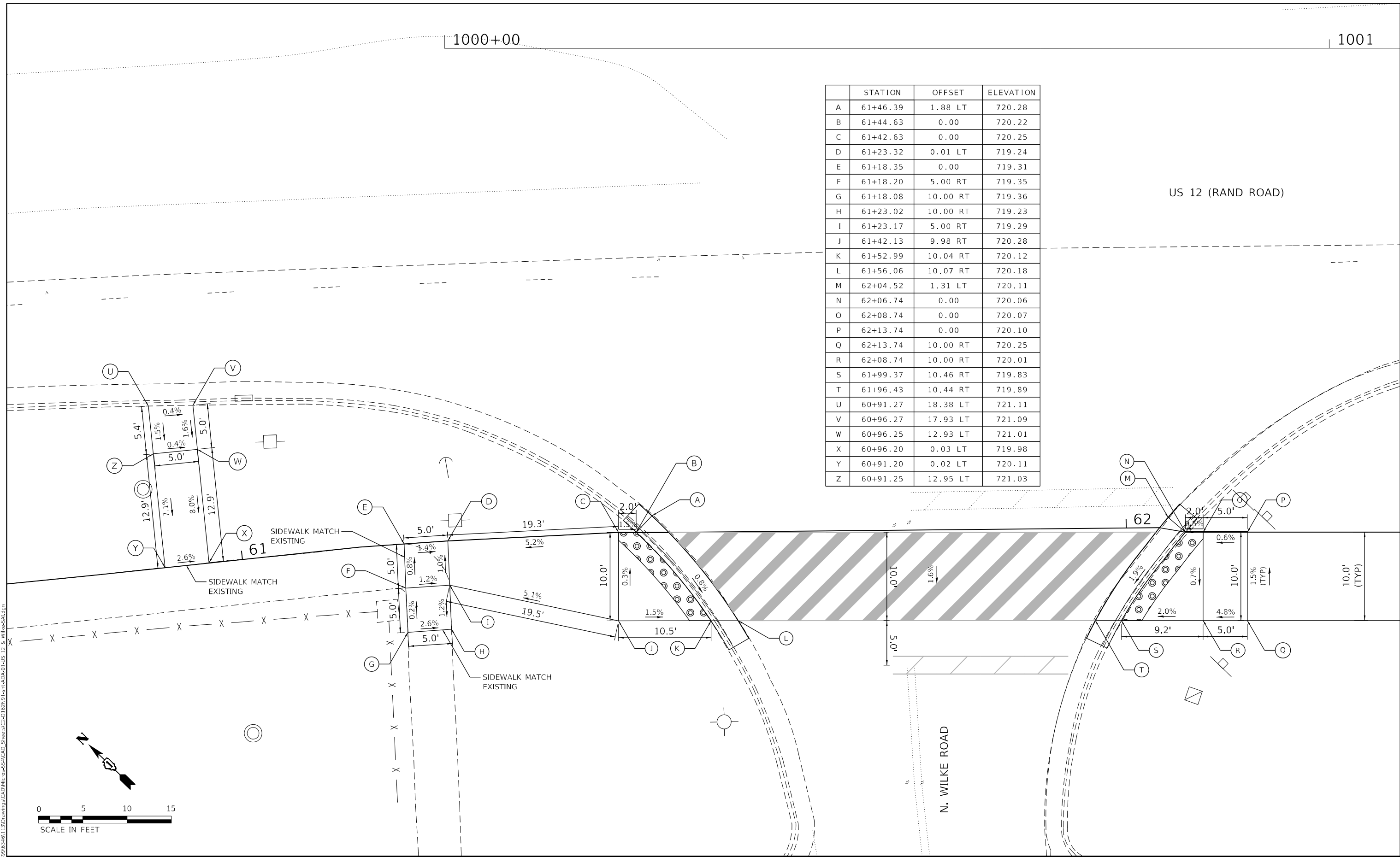
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
342	2018-100-BR	COOK	1351	406
CONTRACT NO. 62N91			ILLINOIS FED. AID PROJECT	

1000+00

1001

	STATION	OFFSET	ELEVATION
A	61+46.39	1.88 LT	720.28
B	61+44.63	0.00	720.22
C	61+42.63	0.00	720.25
D	61+23.32	0.01 LT	719.24
E	61+18.35	0.00	719.31
F	61+18.20	5.00 RT	719.35
G	61+18.08	10.00 RT	719.36
H	61+23.02	10.00 RT	719.23
I	61+23.17	5.00 RT	719.29
J	61+42.13	9.98 RT	720.28
K	61+52.99	10.04 RT	720.12
L	61+56.06	10.07 RT	720.18
M	62+04.52	1.31 LT	720.11
N	62+06.74	0.00	720.06
O	62+08.74	0.00	720.07
P	62+13.74	0.00	720.10
Q	62+13.74	10.00 RT	720.25
R	62+08.74	10.00 RT	720.01
S	61+99.37	10.46 RT	719.83
T	61+96.43	10.44 RT	719.89
U	60+91.27	18.38 LT	721.11
V	60+96.27	17.93 LT	721.09
W	60+96.25	12.93 LT	721.01
X	60+96.20	0.03 LT	719.98
Y	60+91.20	0.02 LT	720.11
Z	60+91.25	12.95 LT	721.03

US 12 (RAND ROAD)



LOCATION: US 12 (RAND ROAD) & N. WILKE ROAD - SE CORNER & SW CORNER

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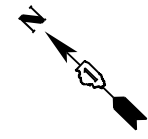
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DRAWN - DJW	REVISIONS -	
PLOT SCALE = 10,0000 * / in.	CHECKED - MAG	REVISED -
PLOT DATE = 12/13/2024	DATE - 12/13/24	REVISED -

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

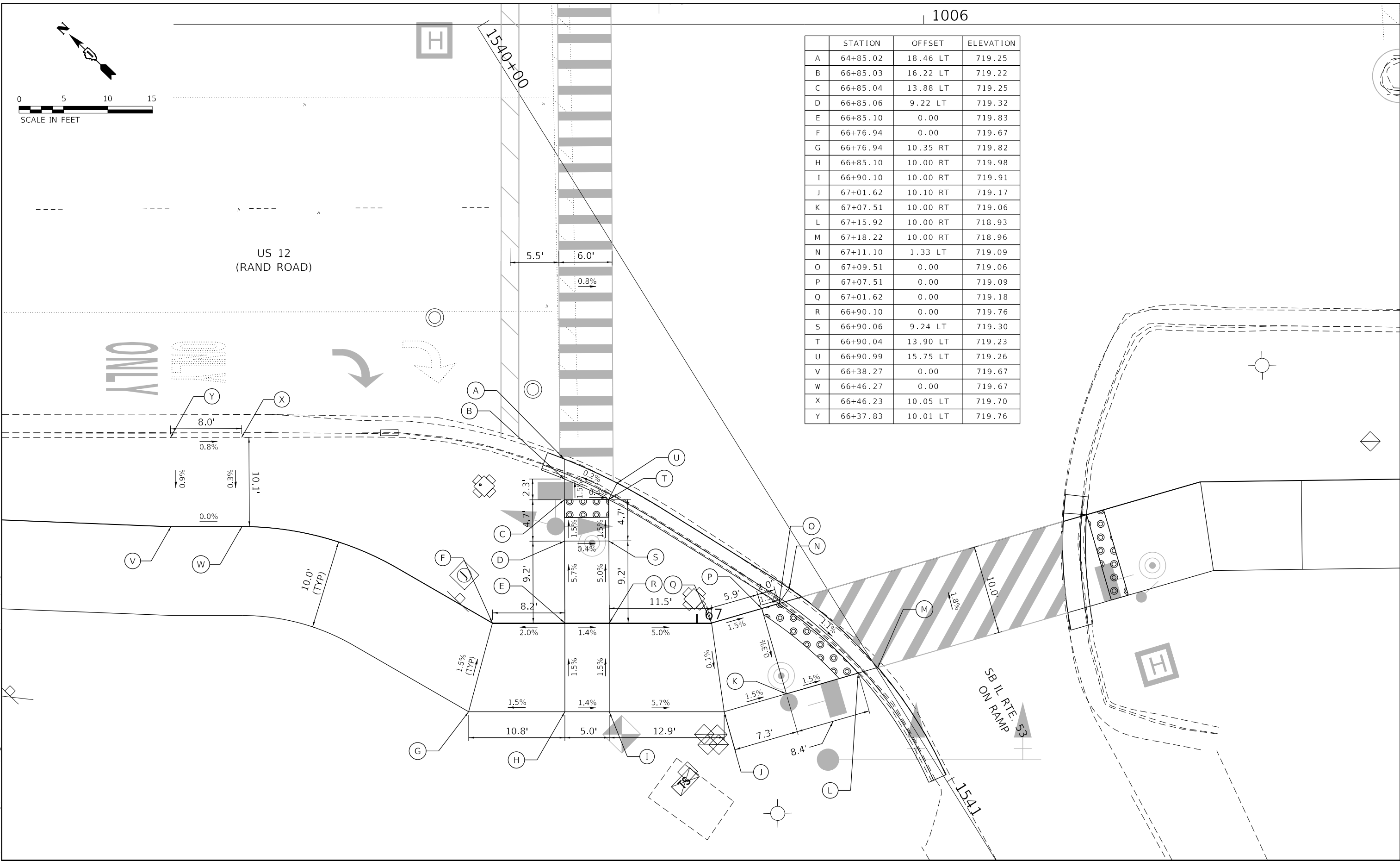
US ROUTE 12 (RAND ROAD) CURB RAMP DETAILS

SCALE: 1" = 5' SHEET 1 OF 4 SHEETS STA. TO STA.

F.A.P. RTE. 342	SECTION 2018-100-BR	COUNTY COOK	TOTAL SHEETS 1351	SHEET NO. 407
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62N91	



	STATION	OFFSET	ELEVATION
A	64+85.02	18.46 LT	719.25
B	66+85.03	16.22 LT	719.22
C	66+85.04	13.88 LT	719.25
D	66+85.06	9.22 LT	719.32
E	66+85.10	0.00	719.83
F	66+76.94	0.00	719.67
G	66+76.94	10.35 RT	719.82
H	66+85.10	10.00 RT	719.98
I	66+90.10	10.00 RT	719.91
J	67+01.62	10.10 RT	719.17
K	67+07.51	10.00 RT	719.06
L	67+15.92	10.00 RT	718.93
M	67+18.22	10.00 RT	718.96
N	67+11.10	1.33 LT	719.09
O	67+09.51	0.00	719.06
P	67+07.51	0.00	719.09
Q	67+01.62	0.00	719.18
R	66+90.10	0.00	719.76
S	66+90.06	9.24 LT	719.30
T	66+90.04	13.90 LT	719.23
U	66+90.99	15.75 LT	719.26
V	66+38.27	0.00	719.67
W	66+46.27	0.00	719.67
X	66+46.23	10.05 LT	719.70
Y	66+37.83	10.01 LT	719.76



LOCATION: US 12 (RAND ROAD) & SB IL RTE. 53 ON RAMP – SW CORNER

MODEL: D:\p4\1131\Drawings\CAD\MicroStation\CAD\12 & Ramp (SW Corner).SAT.dgn



USER NAME = StevenB
PLOT SCALE = 1/16" = 10,000' * / 1" /
PLOT DATE = 12/13/2024

DESIGNED - SRB
DRAWN - DJW
CHECKED - MAG
DATE - 12/13/24

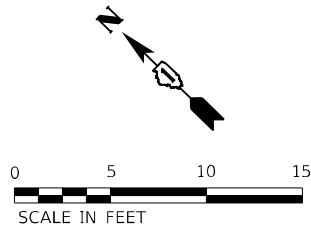
REVISED -
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REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

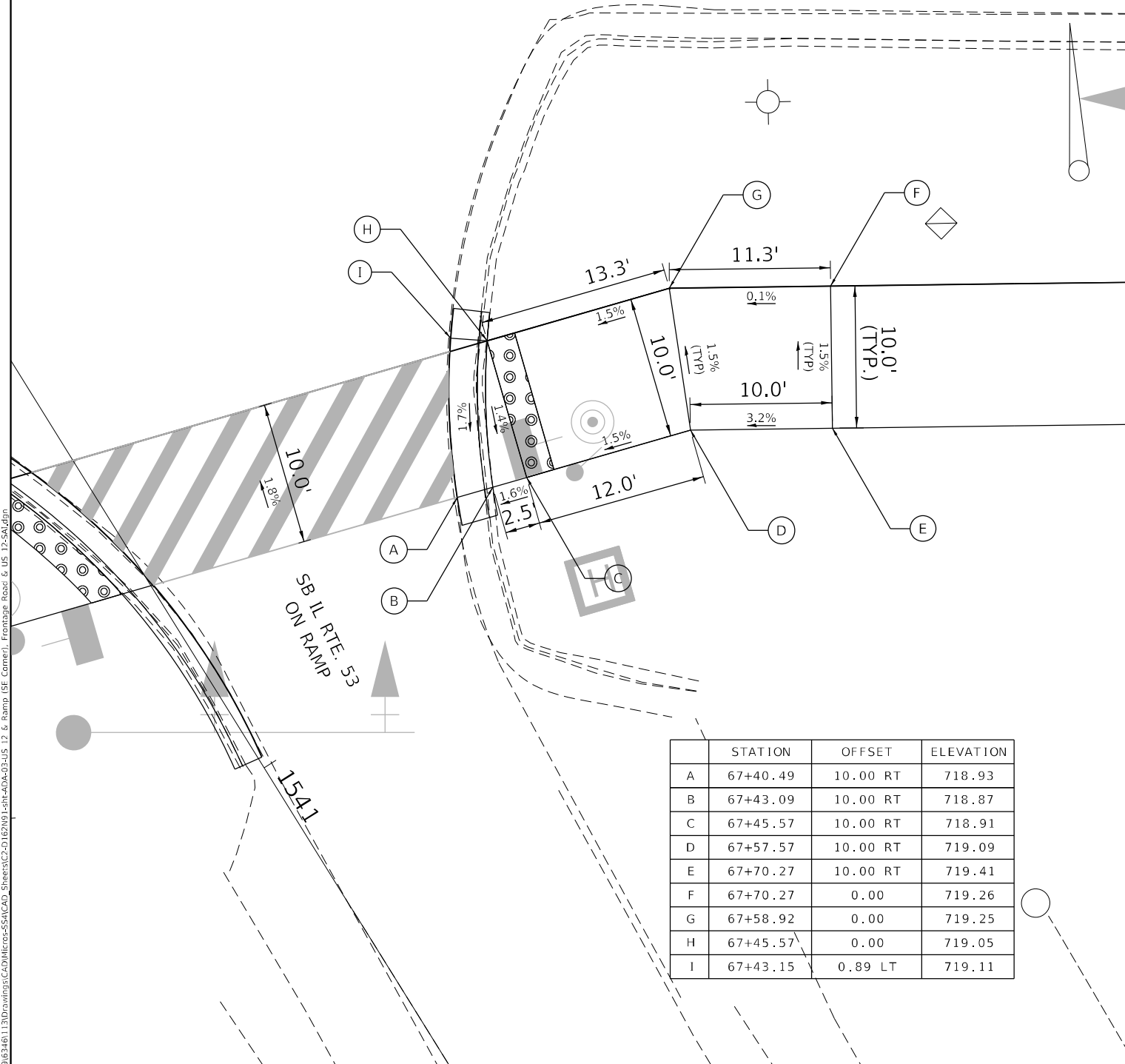
US ROUTE 12 (RAND ROAD)
CURB RAMP DETAILS

SCALE: 1" = 5' SHEET 2 OF 4 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
342	2018-100-BR	COOK	1351	408
CONTRACT NO. 62N91			ILLINOIS FED. AID PROJECT	

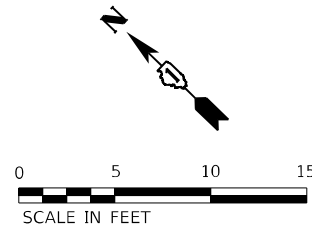


US 12 (RAND ROAD)

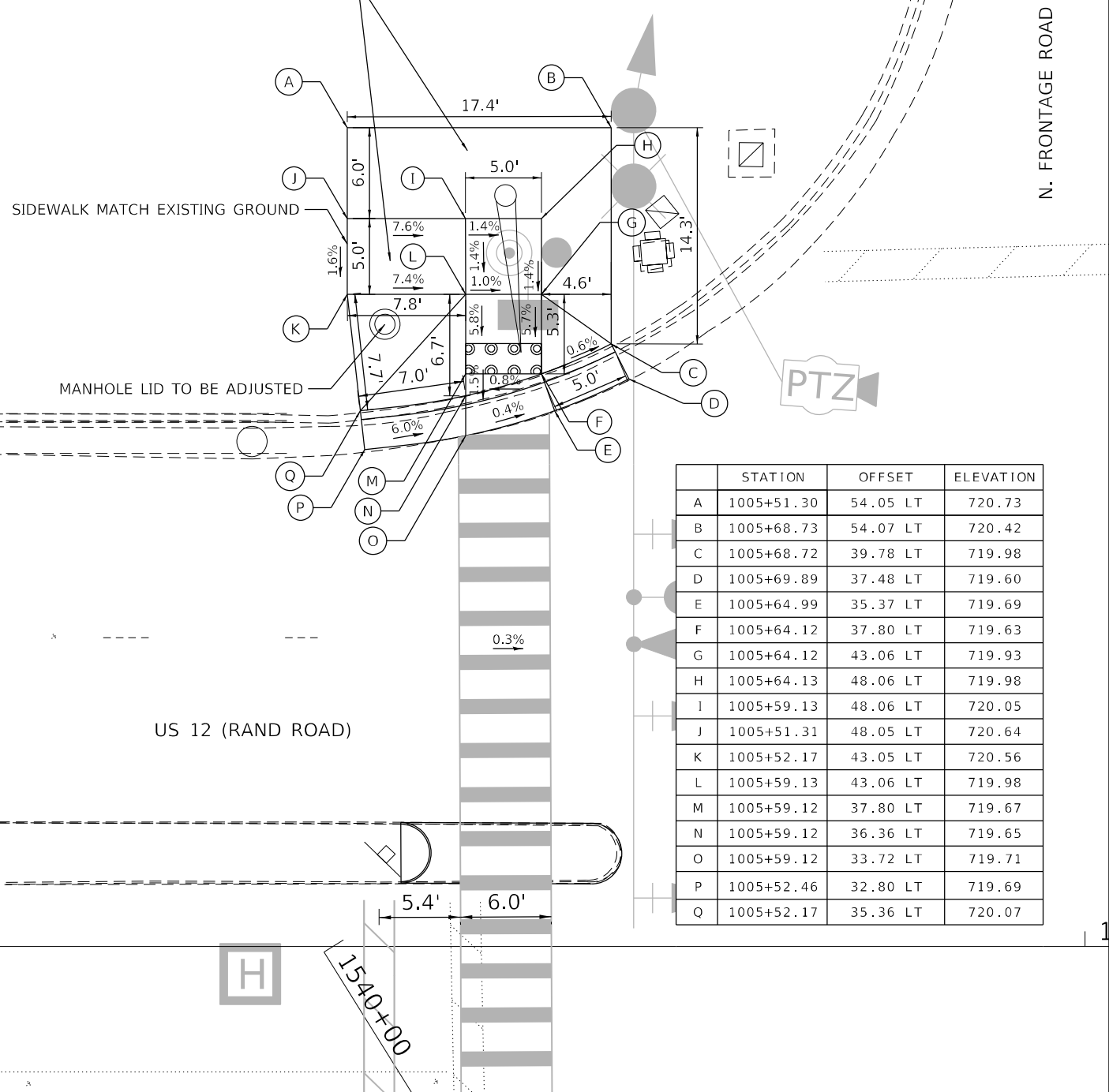


	STATION	OFFSET	ELEVATION
A	67+40.49	10.00 RT	718.93
B	67+43.09	10.00 RT	718.87
C	67+45.57	10.00 RT	718.91
D	67+57.57	10.00 RT	719.09
E	67+70.27	10.00 RT	719.41
F	67+70.27	0.00	719.26
G	67+58.92	0.00	719.25
H	67+45.57	0.00	719.05
I	67+43.15	0.89 LT	719.11

LOCATION: US 12 (RAND ROAD) & SB IL RTE. 53 ON RAMP – SE CORNER



PCC SIDEWALK 5 INCH



	STATION	OFFSET	ELEVATION
A	1005+51.30	54.05 LT	720.73
B	1005+68.73	54.07 LT	720.42
C	1005+68.72	39.78 LT	719.98
D	1005+69.89	37.48 LT	719.60
E	1005+64.99	35.37 LT	719.69
F	1005+64.12	37.80 LT	719.63
G	1005+64.12	43.06 LT	719.93
H	1005+64.13	48.06 LT	719.98
I	1005+59.13	48.06 LT	720.05
J	1005+51.31	48.05 LT	720.64
K	1005+52.17	43.05 LT	720.56
L	1005+59.13	43.06 LT	719.98
M	1005+59.12	37.80 LT	719.67
N	1005+59.12	36.36 LT	719.65
O	1005+59.12	33.72 LT	719.71
P	1005+52.46	32.80 LT	719.69
Q	1005+52.17	35.36 LT	720.07

LOCATION: US 12 (RAND ROAD) & N. FRONTAGE ROAD – NW CORNER



USER NAME = StevenB	DESIGNED - SRB	REVISED -
PLOT SCALE = 10,0000 */ in.	DRAWN - DJW	REVISED -
PLOT DATE = 12/13/2024	CHECKED - MAG	REVISED -
	DATE - 12/13/24	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

US ROUTE 12 (RAND ROAD)
CURB RAMP DETAILS

SCALE: 1" = 5' SHEET 3 OF 4 SHEETS STA. TO STA.

F.A.P. RTE. 342	SECTION 2018-100-BR	COUNTY COOK	TOTAL SHEETS 1351	SHEET NO. 409
CONTRACT NO. 62N91				
ILLINOIS FED. AID PROJECT				

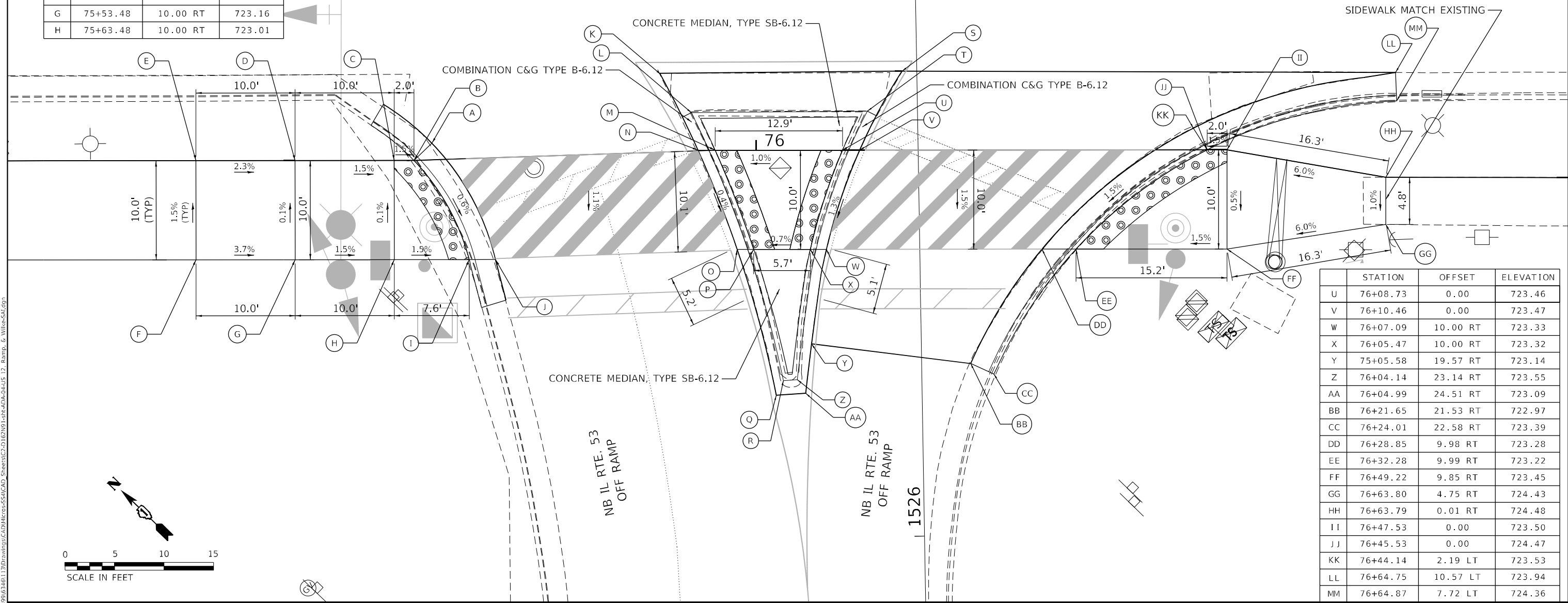
1014

1015+00

STATION	OFFSET	ELEVATION	
A	75+67.33	1.68 LT	723.03
B	75+65.48	0.00 LT	722.97
C	75+63.47	0.00 LT	723.00
D	75+53.47	0.00	723.15
E	75.43.47	0.00	723.38
F	75+43.47	10.00 RT	723.53
G	75+53.48	10.00 RT	723.16
H	75+63.48	10.00 RT	723.01

STATION	OFFSET	ELEVATION	
I	75+70.70	10.18 RT	722.90
J	75+73.35	10.26 RT	722.96
K	75+90.55	7.94 LT	723.32
L	75+93.60	3.87 LT	723.72
M	75+95.88	0.00	723.32
N	75+94.15	0.06 LT	723.33
O	75+98.08	10.00 RT	723.28
P	75+99.76	10.00 RT	723.29
Q	76+02.02	24.71 RT	722.99
R	76+02.74	23.23 RT	723.45
S	76+14.74	7.95 LT	723.63
T	76+11.24	3.93 LT	723.98

US 12 (RAND ROAD)



STATION	OFFSET	ELEVATION	
U	76+08.73	0.00	723.46
V	76+10.46	0.00	723.47
W	76+07.09	10.00 RT	723.33
X	76+05.47	10.00 RT	723.32
Y	75+05.58	19.57 RT	723.14
Z	76+04.14	23.14 RT	723.55
AA	76+04.99	24.51 RT	723.09
BB	76+21.65	21.53 RT	722.97
CC	76+24.01	22.58 RT	723.39
DD	76+28.85	9.98 RT	723.28
EE	76+32.28	9.99 RT	723.22
FF	76+49.22	9.85 RT	723.45
GG	76+63.80	4.75 RT	724.43
HH	76+63.79	0.01 RT	724.48
II	76+47.53	0.00	723.50
JJ	76+45.53	0.00	724.47
KK	76+44.14	2.19 LT	723.53
LL	76+64.75	10.57 LT	723.94
MM	76+64.87	7.72 LT	724.36

LOCATION: US 12 (RAND ROAD) & NB IL RTE. 53 EXIT RAMP



USER NAME = StevenB	DESIGNED - SRB	REVISED -
PLOT SCALE = 10,0000' / in.	DRAWN - DJW	REVISED -
PLOT DATE = 1/24/2025	CHECKED - MAG	REVISED -
	DATE - 12/13/24	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

US ROUTE 12 (RAND ROAD) CURB RAMP DETAILS	
SCALE: 1" = 5'	SHEET 4 OF 4 SHEETS
STA.	TO STA.

F.A.P. RTE. 342	SECTION 2018-100-BR	COUNTY COOK	TOTAL SHEETS 1351	SHEET NO. 410
CONTRACT NO. 62N91				
ILLINOIS FED. AID PROJECT				

MODEL: D:\p4\h...
 FILE NAME: S:\01\6300-6309\B346113\Drawings\CD\Micro\SSA\CAD_Sheets\C2-D1\62N91-INT-04A-014US_12_Ramp_ & Wilkes-SA.dgn

SUBSURFACE UTILITY INVESTIGATION

IL 53 BRIDGES IMPROVEMENT
ARLINGTON HEIGHTS/ROLLING MEADOWS, IL

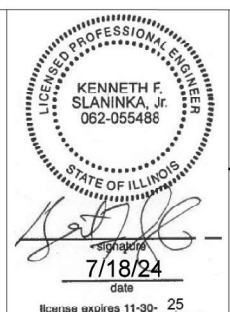



— A — A —	AERIAL
— — — — —	UNKNOWN
— — — — —	TRAFFIC SIGNAL
- - - - -	SANITARY SEWER
— CTV — CTV —	CABLE TV
— T — T —	TELEPHONE
— G — G —	GAS
— E — E —	ELECTRIC
— W — W —	WATER
— FO — FO —	FIBER OPTIC
⊕	T2UE TEST HOLE
⊘	END OF INFORMATION

UTILITY OWNERS	
ELECTRIC - COMED - IDOT	
GAS - NICOR	
FIBER OPTIC - MCI/VERIZON	
FIBER OPTIC - AT&T - COMED	
FIBER OPTIC VIAKOM - IDOT	
FIBER OPTIC - WINDSTREAM - WOW FIBER	
WATER - VILLAGE OF ARLINGTON HEIGHTS	
WATER - CITY OF ROLLING MEADOWS	

UTILITIES SHOWN IN COLOR ON THESE PLANS AS DEPICTED IN THE LEGEND HAVE BEEN INVESTIGATED BY T2UE IN ACCORDANCE WITH SUE INDUSTRY STANDARDS. ALL OTHER INFORMATION SHOWN HAS BEEN PROVIDED TO T2UE BY OTHERS. T2UE'S SUE FIELD INVESTIGATION WAS PERFORMED 6/05/24 THROUGH 7/10/24. CHANGES TO UTILITIES AFTER 7/10/24 MAY HAVE BEEN MADE AND THEREFORE MAY RESULT IN VARIANCES FROM THIS PLAN. CONSIDERATION SHOULD BE GIVEN TO UPDATING THIS PLAN IF DEEMED ADVISABLE PRIOR TO FINAL DESIGN AND CONSTRUCTION.

ALL UTILITIES SHOWN QUALITY LEVEL "B" UNLESS NOTED OTHERWISE.
SEE THE TEST HOLE DATA MATRIX FOR TEST HOLE INFORMATION.
DEPICTIONS OF THE UTILITY DEPTHS, THROUGH ELECTRONIC READINGS (ER), WILL BE BASED ON PROFESSIONAL JUDGEMENT FROM A VARIETY OF INDIRECT MEASUREMENTS AND SOURCES; AND THEREFORE CAN NOT BE GUARANTEED OR HAVE ANY ACCURACY ASSOCIATED WITH THEM EXCEPT AT THOSE SPECIFIC POINTS WHERE DATA ARE LABELED AS UTILITY QUALITY LEVEL A (QLA) IN ACCORDANCE WITH ASCE 38-22.







T2 JOB NO. IL09520845_20930
SUE PLAN PAGE: COVER

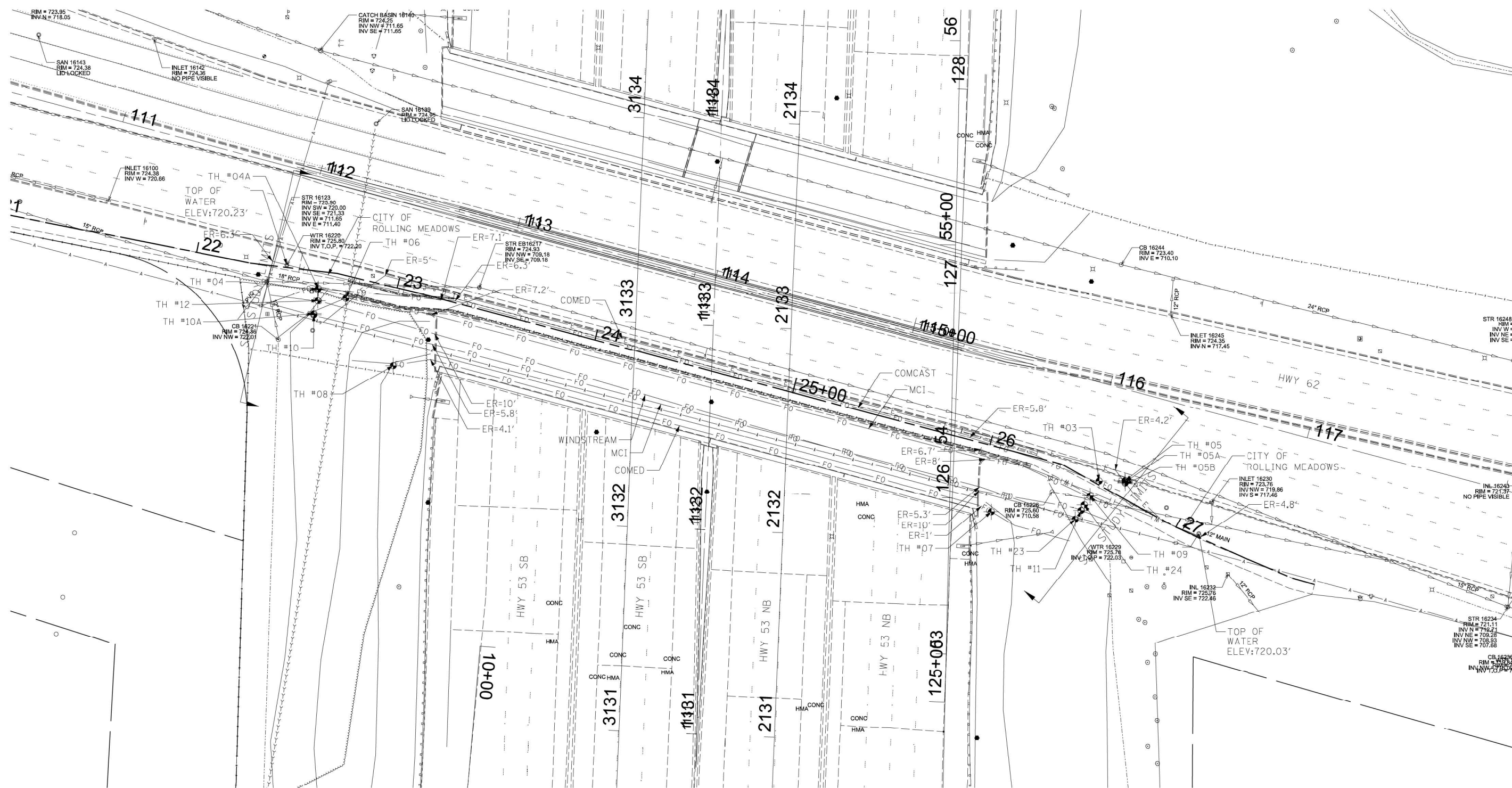
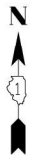
UTILITY QUALITY LEVEL "A" : VISUALLY VERIFIED TEST HOLE
UTILITY QUALITY LEVEL "B" : DESIGNATING
UTILITY QUALITY LEVEL "C" : RESEARCH WITH SURVEY
UTILITY QUALITY LEVEL "D" : RECORDS RESEARCH

DESIGNED	AA
DRAWN	KLC
CHECKED	KFS
DATE	7/18/24

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 53 BRIDGES IMPROVEMENT
ARLINGTON HEIGHTS/ROLLING MEADOWS, IL

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
342	N/A	COOK	1351	411
FED. ROAD DIST. NO.			IDOT WO No. 345 & 630	
			CONTRACT NO. 62N91 & 62W38	



— A — A —	AERIAL
— — — — —	UNKNOWN
— — — — —	TRAFFIC SIGNAL
— — — — —	SANITARY SEWER
— CTV — CTV —	CABLE TV
— T — T —	TELEPHONE
— G — G —	GAS
— E — E —	ELECTRIC
— W — W —	WATER
— FO — FO —	FIBER OPTIC
⊙	T2UE TEST HOLE
⊙	END OF INFORMATION

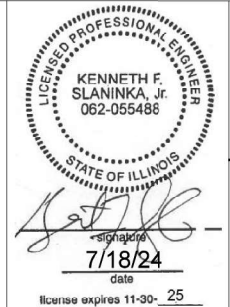
UTILITY OWNERS	
ELECTRIC - COMED - IDOT	
GAS - NICOR	
FIBER OPTIC - MCI/VERIZON	
FIBER OPTIC - AT&T - COMED	
FIBER OPTIC VIAKOM - IDOT	
FIBER OPTIC - WINDSTREAM - WOW FIBER	
WATER - VILLAGE OF ARLINGTON HEIGHTS	
WATER - CITY OF ROLLING MEADOWS	

UTILITIES SHOWN IN COLOR ON THESE PLANS AS DEPICTED IN THE LEGEND HAVE BEEN INVESTIGATED BY T2UE IN ACCORDANCE WITH SUE INDUSTRY STANDARDS. ALL OTHER INFORMATION SHOWN HAS BEEN PROVIDED TO T2UE BY OTHERS. T2UE'S SUE FIELD INVESTIGATION WAS PERFORMED 6/05/24 THROUGH 7/10/24. CHANGES TO UTILITIES AFTER 7/10/24 MAY HAVE BEEN MADE AND THEREFORE MAY RESULT IN VARIANCES FROM THIS PLAN. CONSIDERATION SHOULD BE GIVEN TO UPDATING THIS PLAN IF DEEMED ADVISABLE PRIOR TO FINAL DESIGN AND CONSTRUCTION.

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SEE THE TEST HOLE DATA MATRIX FOR TEST HOLE INFORMATION.

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T2 utility engineers

Accurate GROUP INC.

T2 JOB NO. IL09520845_20930
SUE PLAN PAGE: 1 OF 4

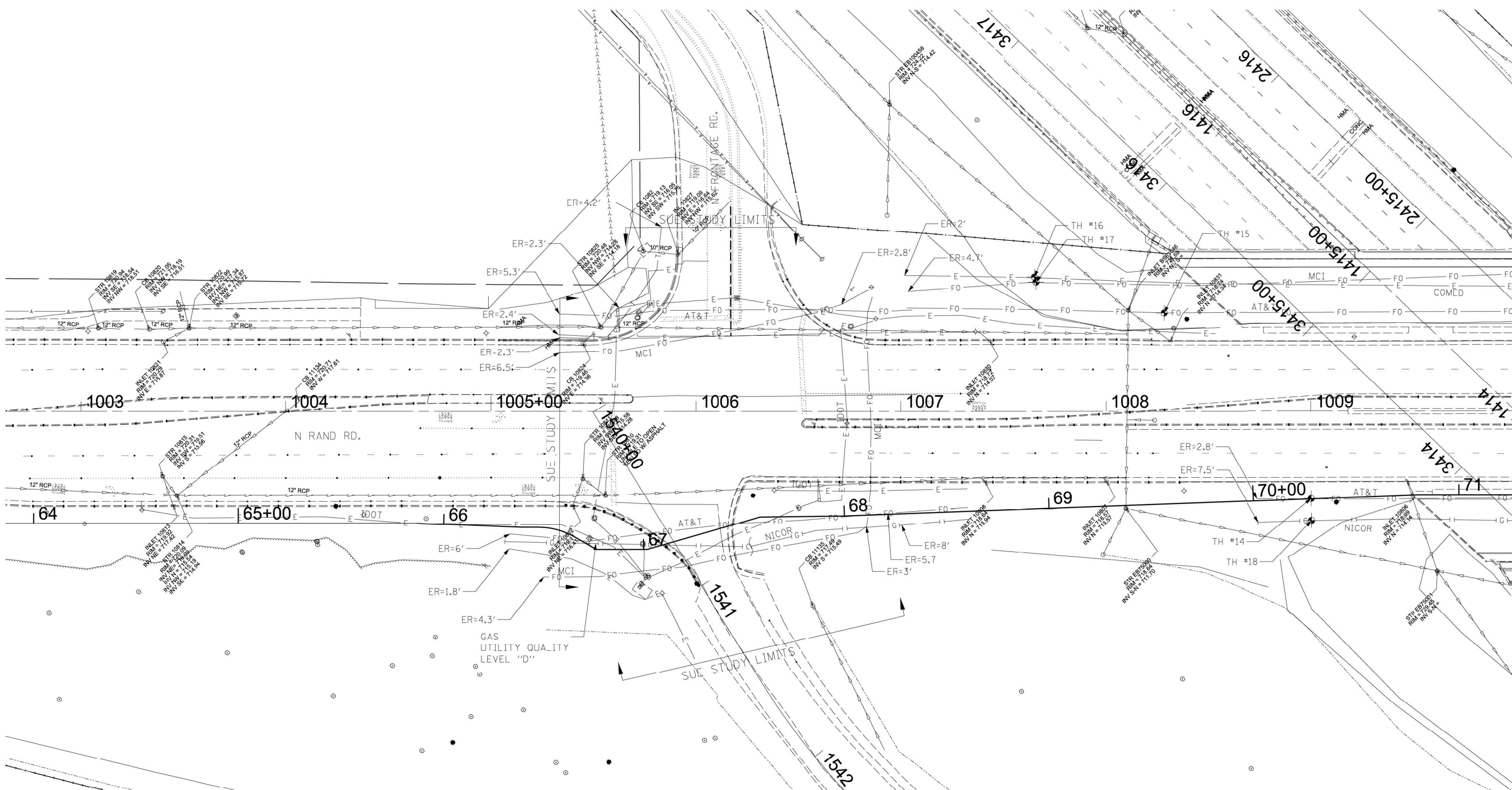
UTILITY QUALITY LEVEL "A" : VISUALLY VERIFIED TEST HOLE
UTILITY QUALITY LEVEL "B" : DESIGNATING
UTILITY QUALITY LEVEL "C" : RESEARCH WITH SURVEY
UTILITY QUALITY LEVEL "D" : RECORDS RESEARCH

DESIGNED AA
DRAWN KLC
CHECKED KFS
DATE 7/18/24

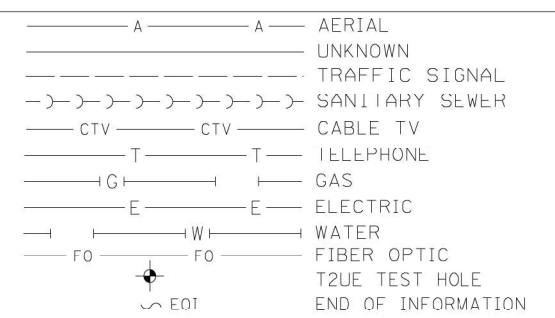
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 53 BRIDGES IMPROVEMENT
ARLINGTON HEIGHTS/ROLLING MEADOWS, IL

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
342	N/A	COOK	1351	412
CONTRACT NO. 62N91 & 62W38				
FED. ROAD DIST. NO.		IDOT WO No. 345 & 630		



MATCH SHEET 3



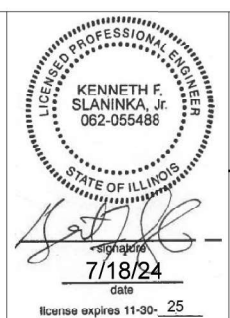
UTILITY OWNERS	
ELECTRIC - COMED - IDOT	
GAS - NICOR	
FIBER OPTIC - MCI/VERIZON	
FIBER OPTIC - AT&T - COMED	
FIBER OPTIC VIAKOM - IDOT	
FIBER OPTIC - WINDSTREAM - WOW FIBER	
WATER - VILLAGE OF ARLINGTON HEIGHTS	
WATER - CITY OF ROLLING MEADOWS	

UTILITIES SHOWN IN COLOR ON THESE PLANS AS DEPICTED IN THE LEGEND HAVE BEEN INVESTIGATED BY T2UE IN ACCORDANCE WITH SUE INDUSTRY STANDARDS. ALL OTHER INFORMATION SHOWN HAS BEEN PROVIDED TO T2UE BY OTHERS. T2UE'S SUE FIELD INVESTIGATION WAS PERFORMED 6/05/24 THROUGH 7/10/24. CHANGES TO UTILITIES AFTER 7/10/24 MAY HAVE BEEN MADE AND THEREFORE MAY RESULT IN VARIANCES FROM THIS PLAN. CONSIDERATION SHOULD BE GIVEN TO UPDATING THIS PLAN IF DEEMED ADVISABLE PRIOR TO FINAL DESIGN AND CONSTRUCTION.

ALL UTILITIES SHOWN QUALITY LEVEL "B" UNLESS NOTED OTHERWISE.

SEE THE TEST HOLE DATA MATRIX FOR TEST HOLE INFORMATION.

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T2 JOB NO. IL09520845_20930
SUE PLAN PAGE: 2 OF 4

UTILITY QUALITY LEVEL "A" : VISUALLY VERIFIED TEST HOLE
UTILITY QUALITY LEVEL "B" : DESIGNATING
UTILITY QUALITY LEVEL "C" : RESEARCH WITH SURVEY
UTILITY QUALITY LEVEL "D" : RECORDS RESEARCH

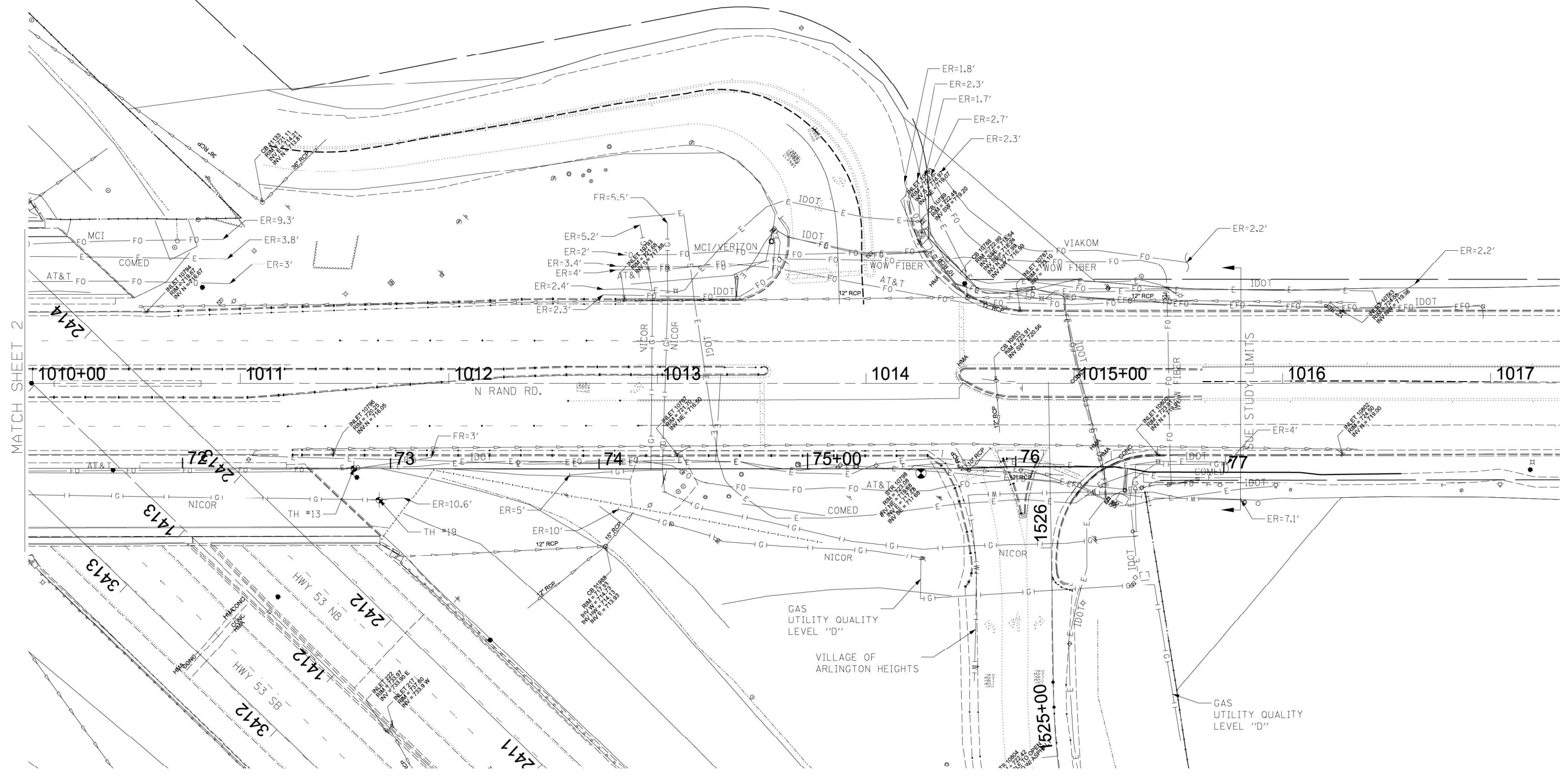
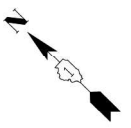
DESIGNED	AA
DRAWN	KLC
CHECKED	KFS
DATE	7/18/24

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 53 BRIDGES IMPROVEMENT
ARLINGTON HEIGHTS/ROLLING MEADOWS, IL

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
342	N/A	COOK	1351	413

CONTRACT NO. 62N91 & 62W38
FED. ROAD DIST. NO. IDOT WO No. 345 & 630



MATCH SHEET 2

— A — A —	AERIAL
— — — — —	UNKNOWN
— — — — —	TRAFFIC SIGNAL
— — — — —	SANITARY SEWER
— CTV — CTV —	CABLE TV
— T — T —	TELEPHONE
— G — G —	GAS
— E — E —	ELECTRIC
— W — W —	WATER
— FO — FO —	FIBER OPTIC
⊙	T2UE TEST HOLE
⊙	END OF INFORMATION

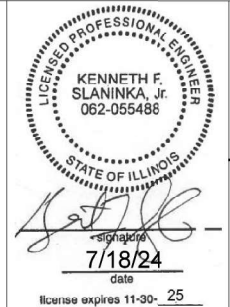
UTILITY OWNERS	
ELECTRIC - COMED - IDOT	
GAS - NICOR	
FIBER OPTIC - MCI/VERIZON	
FIBER OPTIC - AT&T - COMED	
FIBER OPTIC VIAKOM - IDOT	
FIBER OPTIC - WINDSTREAM - WOW FIBER	
WATER - VILLAGE OF ARLINGTON HEIGHTS	
WATER - CITY OF ROLLING MEADOWS	

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T2 JOB NO. IL09520845_20930
SUE PLAN PAGE: 3 OF 4

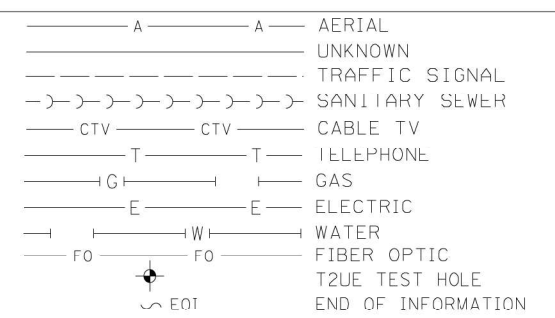
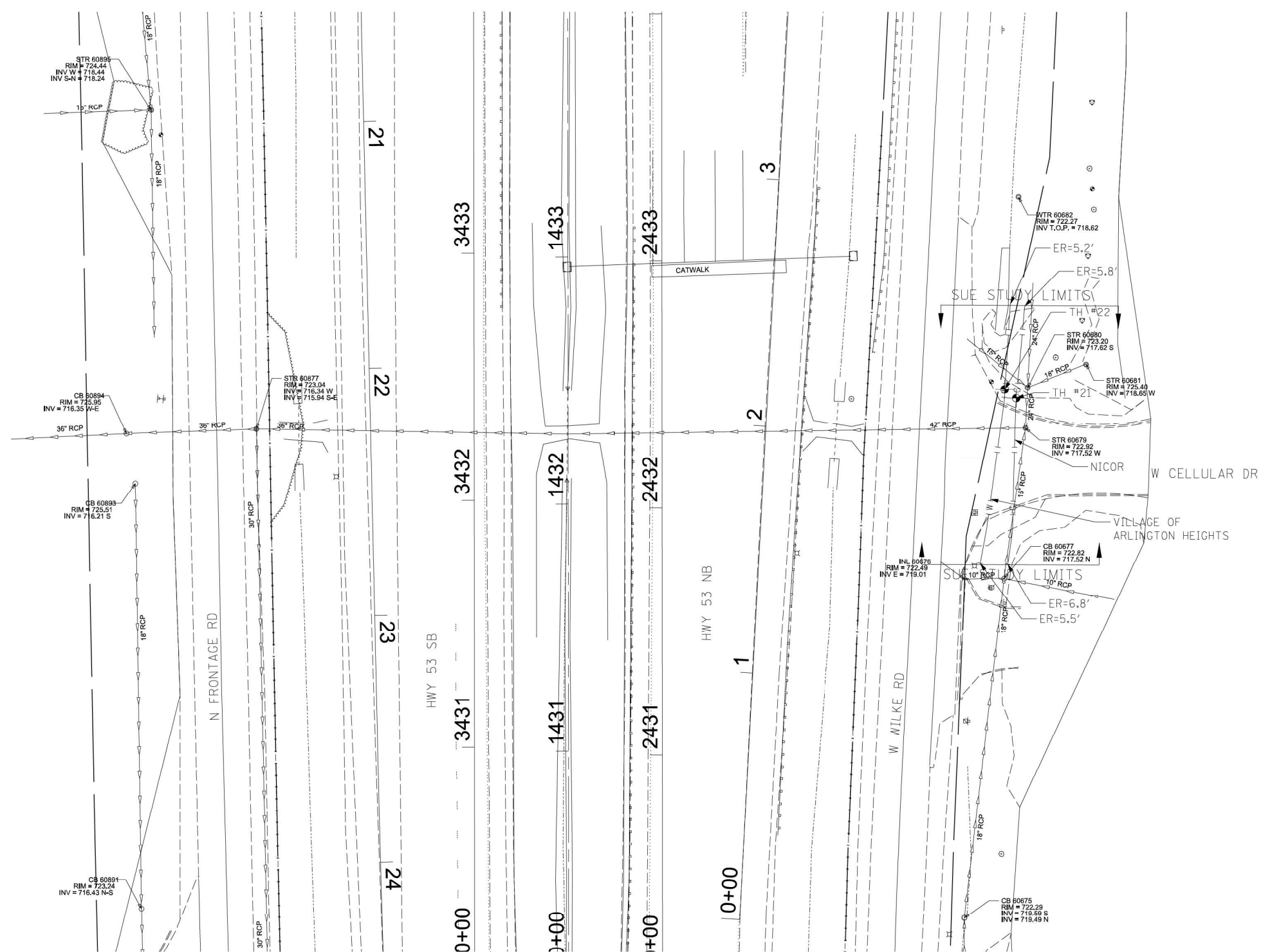
UTILITY QUALITY LEVEL "A" : VISUALLY VERIFIED TEST HOLE
UTILITY QUALITY LEVEL "B" : DESIGNATING
UTILITY QUALITY LEVEL "C" : RESEARCH WITH SURVEY
UTILITY QUALITY LEVEL "D" : RECORDS RESEARCH

DESIGNED AA	
DRAWN KLC	
CHECKED KFS	
DATE 7/18/24	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 53 BRIDGES IMPROVEMENT
ARLINGTON HEIGHTS/ROLLING MEADOWS, IL

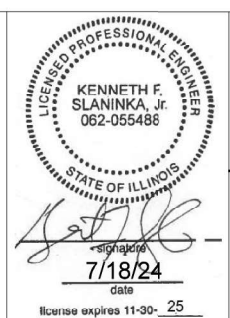
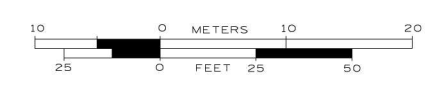
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
342	N/A	COOK	1351	414
FED. ROAD DIST. NO.			IDOT WO No. 345 & 630	



UTILITY OWNERS	
ELECTRIC - COMED - IDOT	
GAS - NICOR	
FIBER OPTIC - MCI/VERIZON	
FIBER OPTIC - AT&T - COMED	
FIBER OPTIC VIAKOM - IDOT	
FIBER OPTIC - WINDSTREAM - WOW FIBER	
WATER - VILLAGE OF ARLINGTON HEIGHTS	
WATER - CITY OF ROLLING MEADOWS	

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T2 utility engineers

Accurate GROUP INC.

T2 JOB NO. IL09520845_20930
SUE PLAN PAGE: 4 OF 4

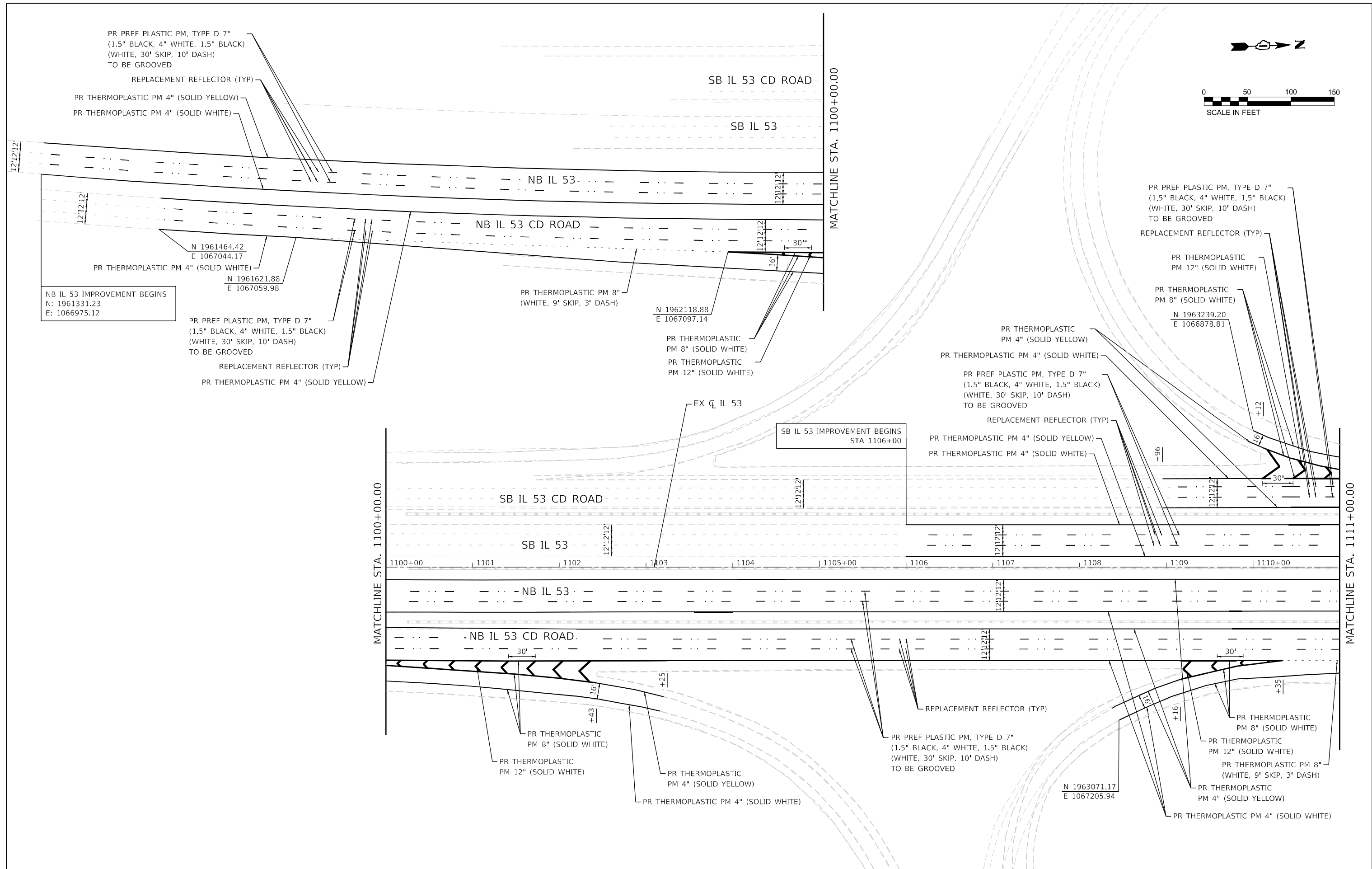
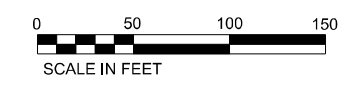
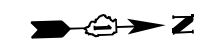
UTILITY QUALITY LEVEL "A" : VISUALLY VERIFIED TEST HOLE
UTILITY QUALITY LEVEL "B" : DESIGNATING
UTILITY QUALITY LEVEL "C" : RESEARCH WITH SURVEY
UTILITY QUALITY LEVEL "D" : RECORDS RESEARCH

DESIGNED AA	
DRAWN KLC	
CHECKED KFS	
DATE 7/18/24	

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

IL 53 BRIDGES IMPROVEMENT
ARLINGTON HEIGHTS/ROLLING MEADOWS, IL

F.A.P. RTE. 342	SECTION N/A	COUNTY COOK	TOTAL SHEETS 1351	SHEET NO. 415
FED. ROAD DIST. NO.			IDOT WO No. 345 & 630	

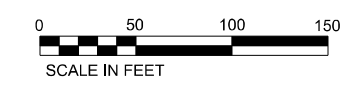
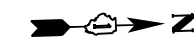


USER NAME = jxenn	DESIGNED - JK	REVISED -
DRAWN - JK	REVISED -	
PLOT SCALE = 100,0000' / in.	CHECKED - RC	REVISED -
PLOT DATE = \$DATE\$	DATE - 12/2024	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

IL 53 PAVEMENT MARKING PLAN	
SCALE: 1"=50'	SHEET 1 OF 20 SHEETS
STA. 1099+62.00 TO STA. 1111+00.00	

F.A.P. RTE. 342	SECTION 2018-100-BR	COUNTY COOK	TOTAL SHEETS 1351	SHEET NO. 416
CONTRACT NO. 62N91				
ILLINOIS FED. AID PROJECT				



EX I-90 WB ENTRANCE RAMP

PR THERMOPLASTIC PM 8" (SOLID WHITE)

PR THERMOPLASTIC PM 12" (SOLID WHITE)

PR THERMOPLASTIC PM 4" (SOLID YELLOW)

PR THERMOPLASTIC PM 4" (SOLID WHITE)

PR THERMOPLASTIC PM 12" (SOLID WHITE)

PR THERMOPLASTIC PM 8" (SOLID WHITE)

PR RAISED REF PVMT MARKERS (TYP.)

PR PREF PLASTIC PM, TYPE D 5" (WHITE, 30' SKIP, 10' DASH) TO BE GROOVED

PR THERMOPLASTIC PM 4" (SOLID YELLOW)

PR THERMOPLASTIC PM 8" (SOLID WHITE)

PR THERMOPLASTIC PM 12" (SOLID WHITE)

REPLACEMENT REFLECTOR (TYP.)

SB IL 53 CD ROAD

SB IL 53

NB IL 53

NB IL 53 CD ROAD

REPLACEMENT REFLECTOR (TYP.)

PR THERMOPLASTIC PM 8" (WHITE, 9' SKIP, 3' DASH)

PR RAISED REF PVMT MARKERS (TYP.)

PR PREF PLASTIC PM, TYPE D 5" (WHITE, 30' SKIP, 10' DASH) TO BE GROOVED

PR THERMOPLASTIC PM 8" (SOLID WHITE)

PR THERMOPLASTIC PM 12" (SOLID WHITE)

PR THERMOPLASTIC PM 8" (SOLID WHITE)

PR THERMOPLASTIC PM 4" (SOLID YELLOW)

PR THERMOPLASTIC PM 4" (SOLID WHITE)

PR THERMOPLASTIC PM 4" (SOLID YELLOW)

PR THERMOPLASTIC PM 4" (SOLID WHITE)

EX I-90 WB EXIT RAMP

MATCHLINE STA. 1111+00.00

MATCHLINE STA. 1126+00.00



USER NAME = jxenn

PLOT SCALE = 100,0000' / in.

PLOT DATE = \$DATE\$

DESIGNED - JK

DRAWN - JK

CHECKED - RC

DATE - 12/2024

REVISED -

REVISED -

REVISED -

REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

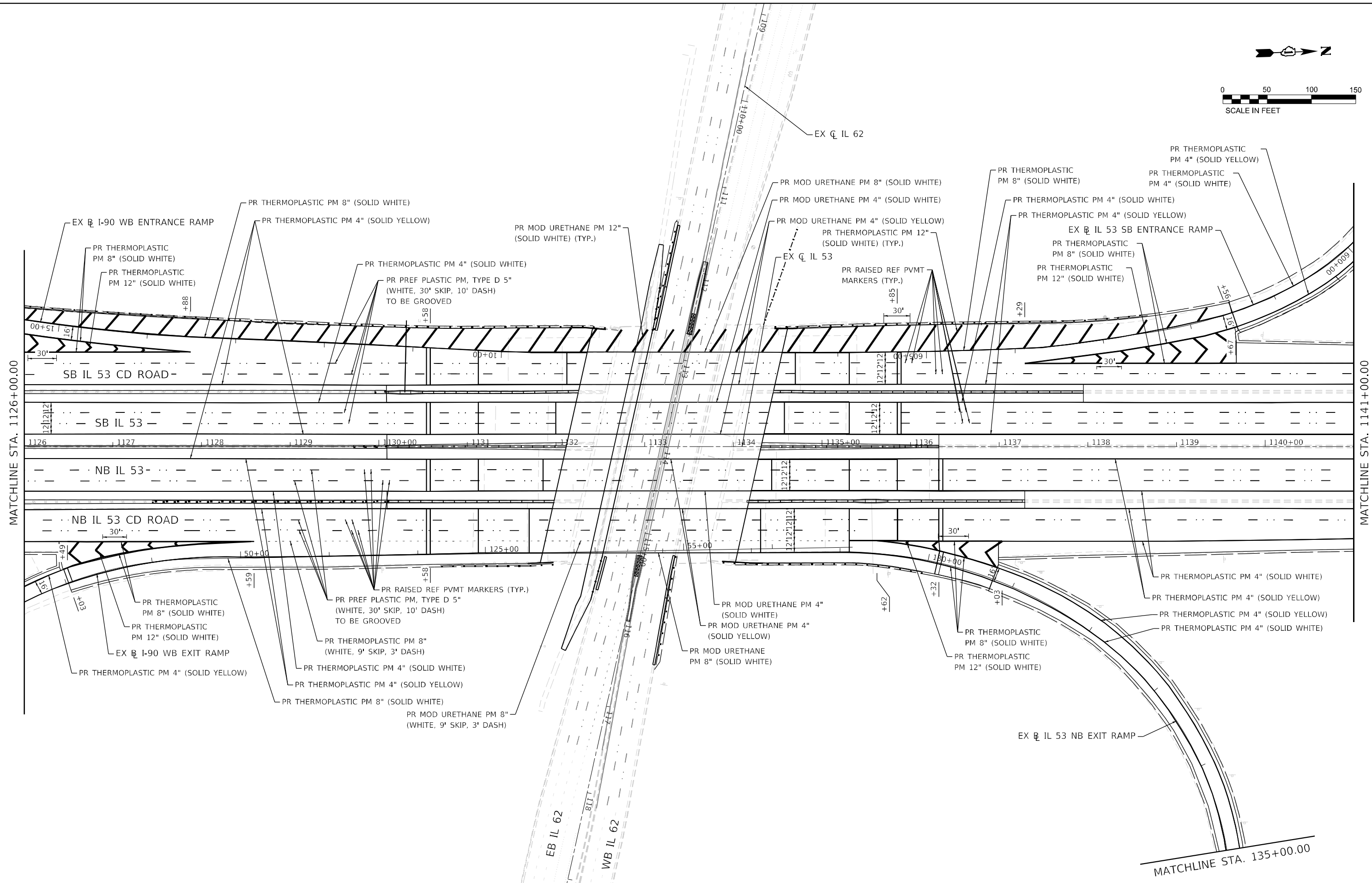
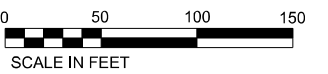
IL 53
PAVEMENT MARKING PLAN

SCALE: 1"=50'

SHEET 2 OF 20 SHEETS

STA. 1111+00.00 TO STA. 1126+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
342	2018-100-BR	COOK	1351	417
CONTRACT NO. 62N91				
ILLINOIS FED. AID PROJECT				



MATCHLINE STA. 1126+00.00

MATCHLINE STA. 1141+00.00

MATCHLINE STA. 135+00.00

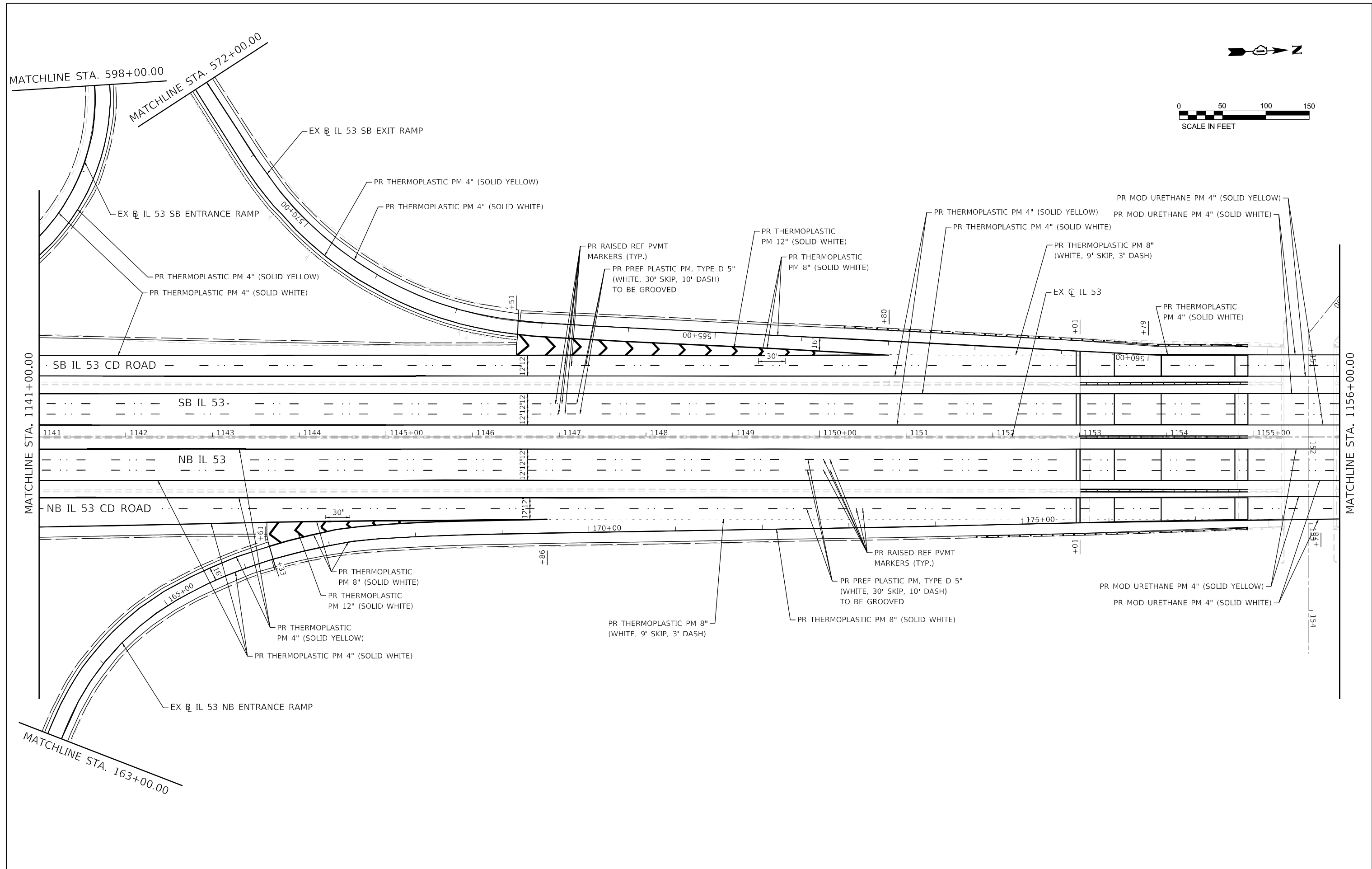
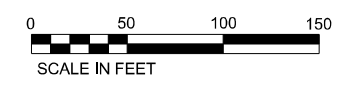
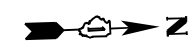


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PLOT DATE = \$DATE\$	DATE - 12/2024	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

IL 53 PAVEMENT MARKING PLAN	
SCALE: 1"=50'	SHEET 3 OF 20 SHEETS
STA. 1126+00.00 TO STA. 1141+00.00	

F.A.P. RTE. 342	SECTION 2018-100-BR	COUNTY COOK	TOTAL SHEETS 1351	SHEET NO. 418
CONTRACT NO. 62N91				
ILLINOIS FED. AID PROJECT				



LIN ENGINEERING, LTD.
Consulting Engineers
Westmont, Illinois

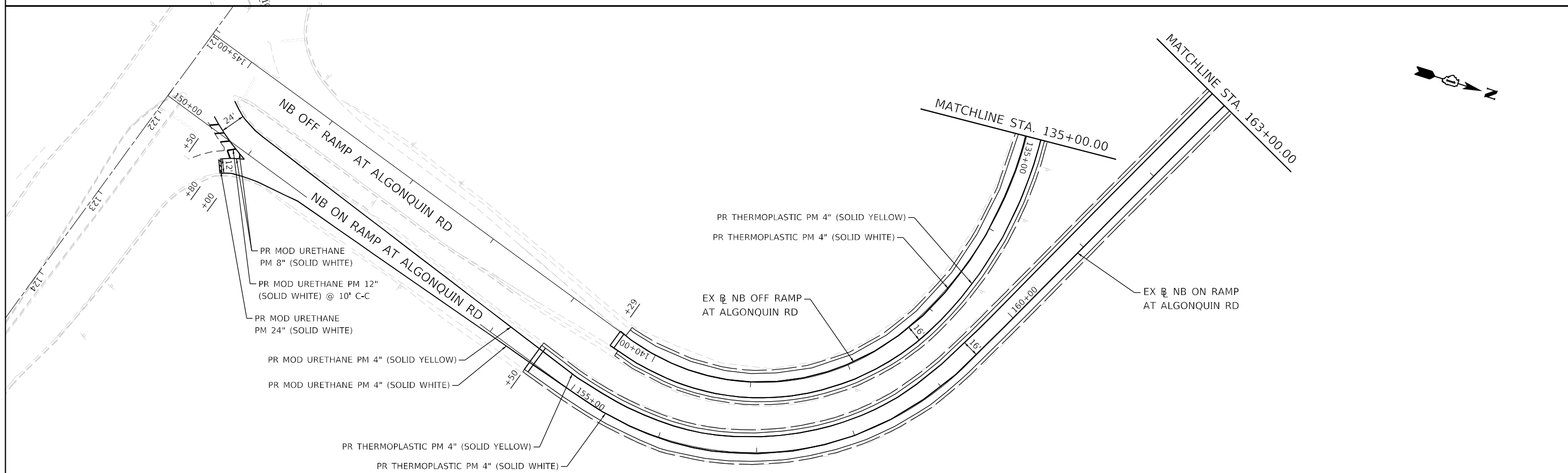
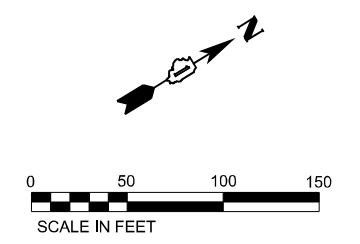
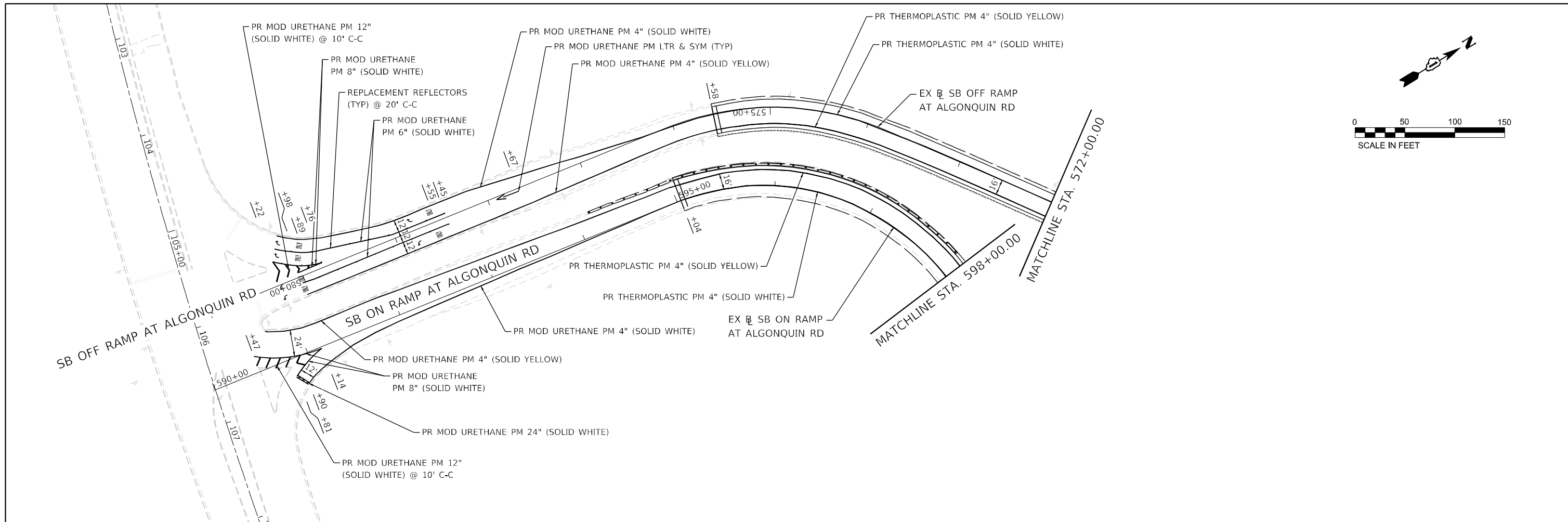
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	DATE - 12/2024	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

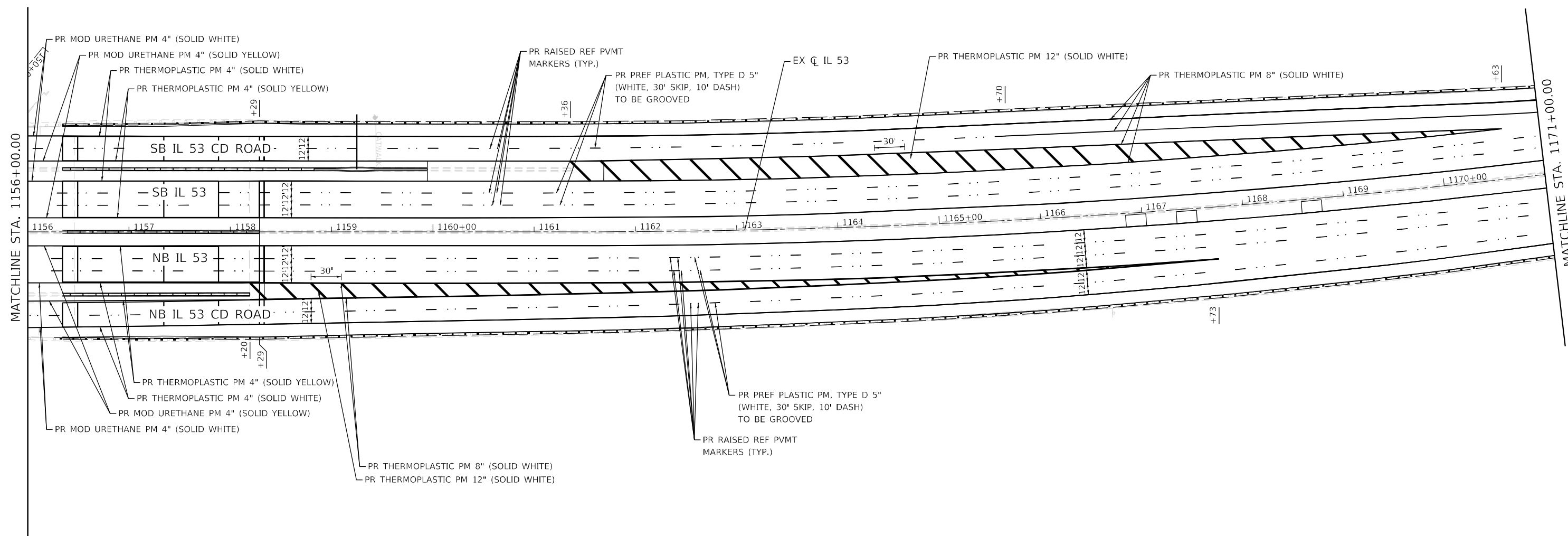
IL 53
PAVEMENT MARKING PLAN

SCALE: 1"=50' SHEET 4 OF 20 SHEETS STA. 1141+00.00 TO STA. 1156+00.00

F.A.P. RTE. 342	SECTION 2018-100-BR	COUNTY COOK	TOTAL SHEETS 1351	SHEET NO. 419
CONTRACT NO. 62N91				
ILLINOIS FED. AID PROJECT				



LIN ENGINEERING, LTD. Consulting Engineers Westmont, Illinois	USER NAME = jxehh	DESIGNED - JK	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL 53 PAVEMENT MARKING PLAN	F.A.P. RTE. = 342	SECTION = 2018-100-BR	COUNTY = COOK	TOTAL SHEETS = 1351	SHEET NO. = 420			
	PLOT SCALE = 100,0000' / in.	CHECKED - RC	REVISED -			SCALE: 1"=50'	SHEET 5 OF 20 SHEETS	STA. 154+50.00 TO STA. 163+00.00	CONTRACT NO. 62N91				
	PLOT DATE = \$DATE\$	DATE - 12/2024	REVISED -			ILLINOIS FED. AID PROJECT							



USER NAME = jxenn
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 PLOT DATE = \$DATE\$

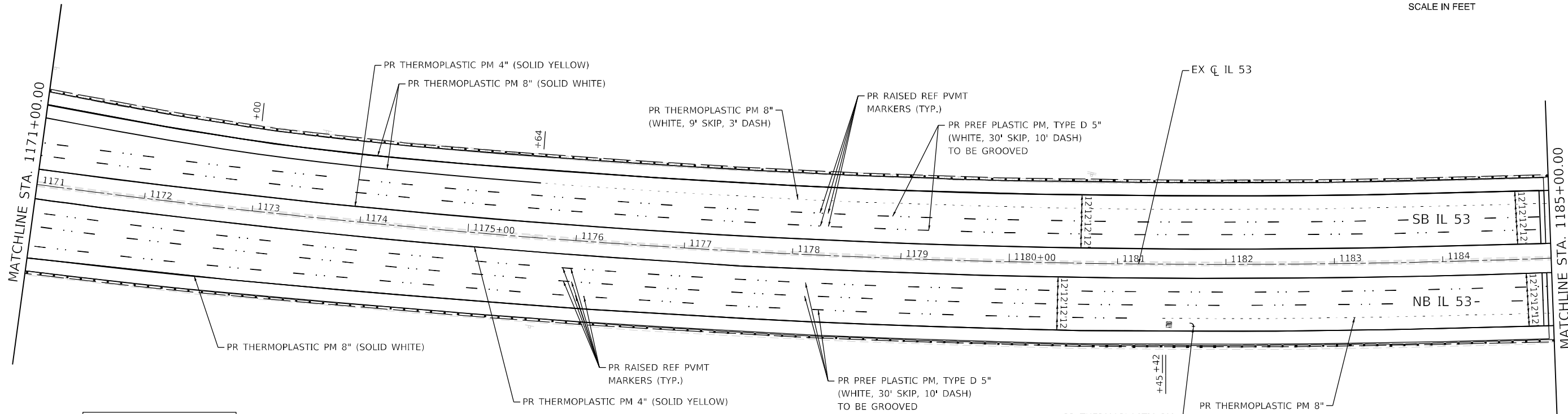
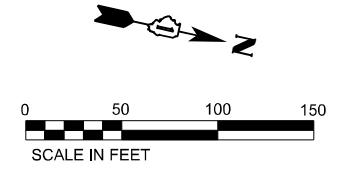
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 CHECKED - RC
 DATE - 12/2024

REVISED -
 REVISED -
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 REVISED -

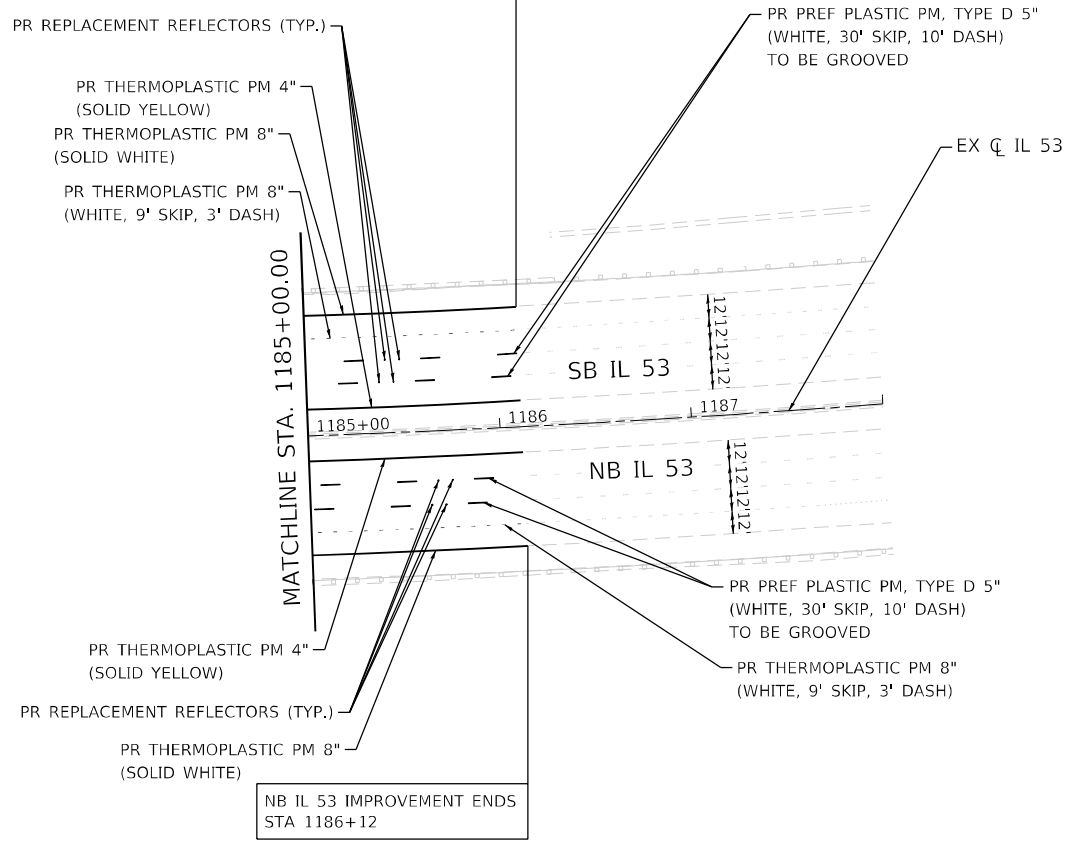
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**IL 53
 PAVEMENT MARKING PLAN**
 SCALE: 1"=50' SHEET 6 OF 20 SHEETS STA. 1156+00.00 TO STA. 1171+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
342	2018-100-BR	COOK	1351	421
CONTRACT NO. 62N91				
ILLINOIS FED. AID PROJECT				



SB IL 53 IMPROVEMENT ENDS STA 1186+12



NB IL 53 IMPROVEMENT ENDS STA 1186+12

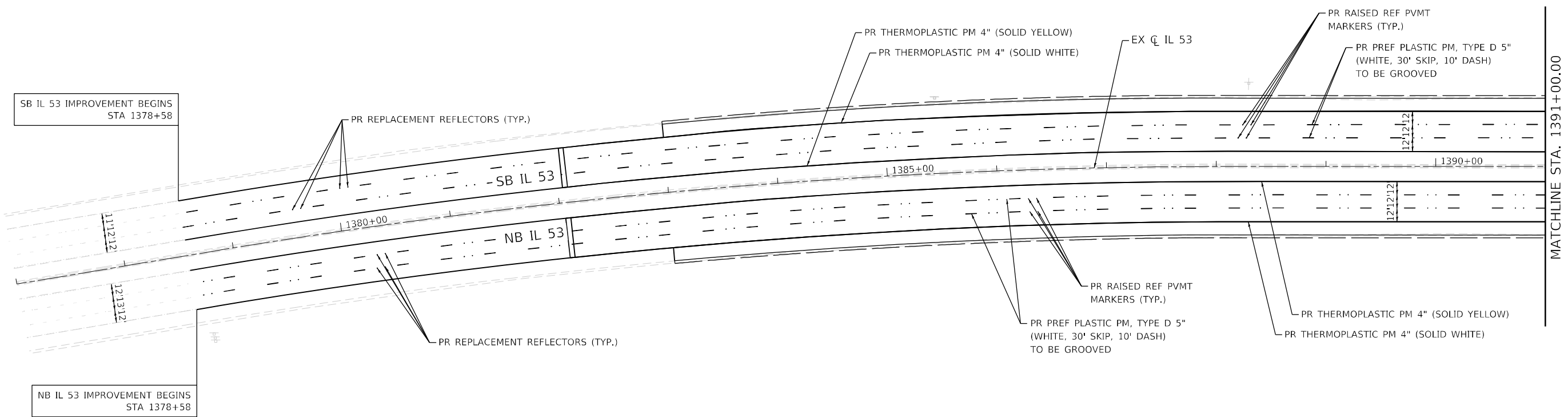
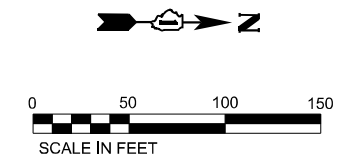


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	DRAWN - JK	REVISED -
PLOT SCALE = 100,0000' / in.	CHECKED - RC	REVISED -
PLOT DATE = \$DATE\$	DATE - 12/2024	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

IL 53 PAVEMENT MARKING PLAN		
SCALE: 1"=50'	SHEET 7 OF 20 SHEETS	STA. 1171+00.00 TO STA. 1186+12.00

F.A.P. RTE. 342	SECTION 2018-100-BR	COUNTY COOK	TOTAL SHEETS 1351	SHEET NO. 422
CONTRACT NO. 62N91				
ILLINOIS FED. AID PROJECT				



SB IL 53 IMPROVEMENT BEGINS
STA 1378+58

NB IL 53 IMPROVEMENT BEGINS
STA 1378+58



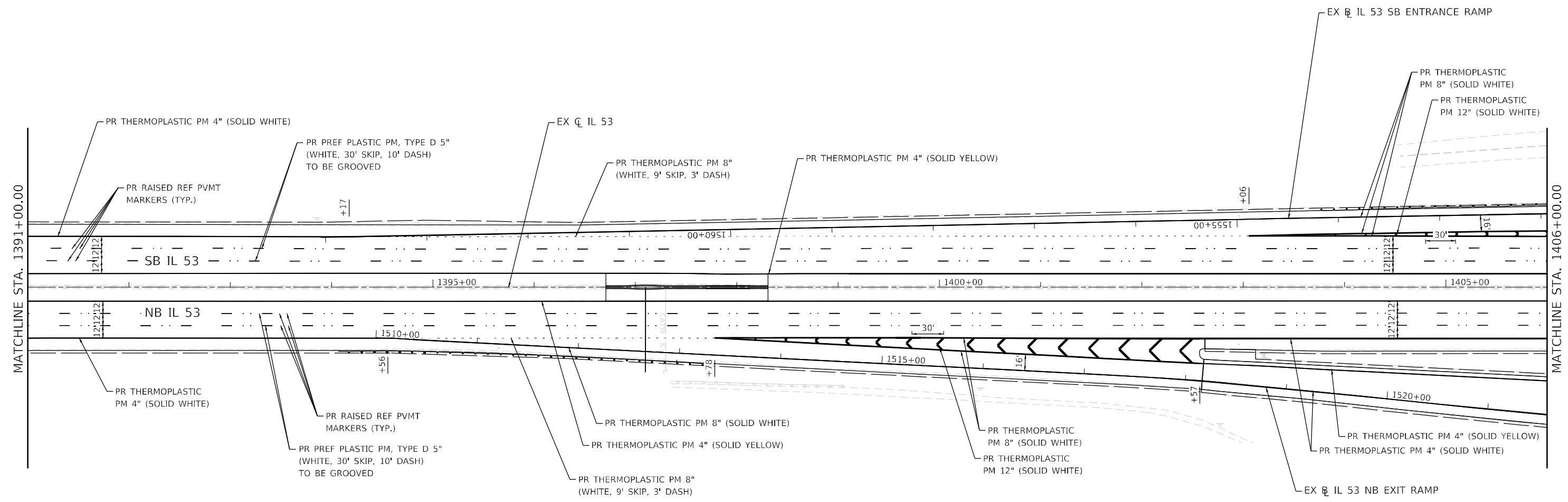
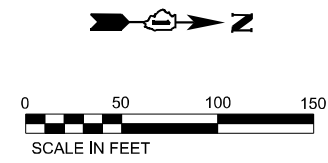
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PLOT SCALE = 100,0000' / in.	CHECKED - RC	REVISED -
PLOT DATE = \$DATE\$	DATE - 12/2024	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

IL 53 PAVEMENT MARKING PLAN	
SCALE: 1"=50'	SHEET 8 OF 20 SHEETS
STA. 1378+58.00 TO STA. 1391+00.00	

F.A.P. RTE. 342	SECTION 2018-100-BR	COUNTY COOK	TOTAL SHEETS 1351	SHEET NO. 423
CONTRACT NO. 62N91				
ILLINOIS FED. AID PROJECT				

MATCHLINE STA. 1391+00.00

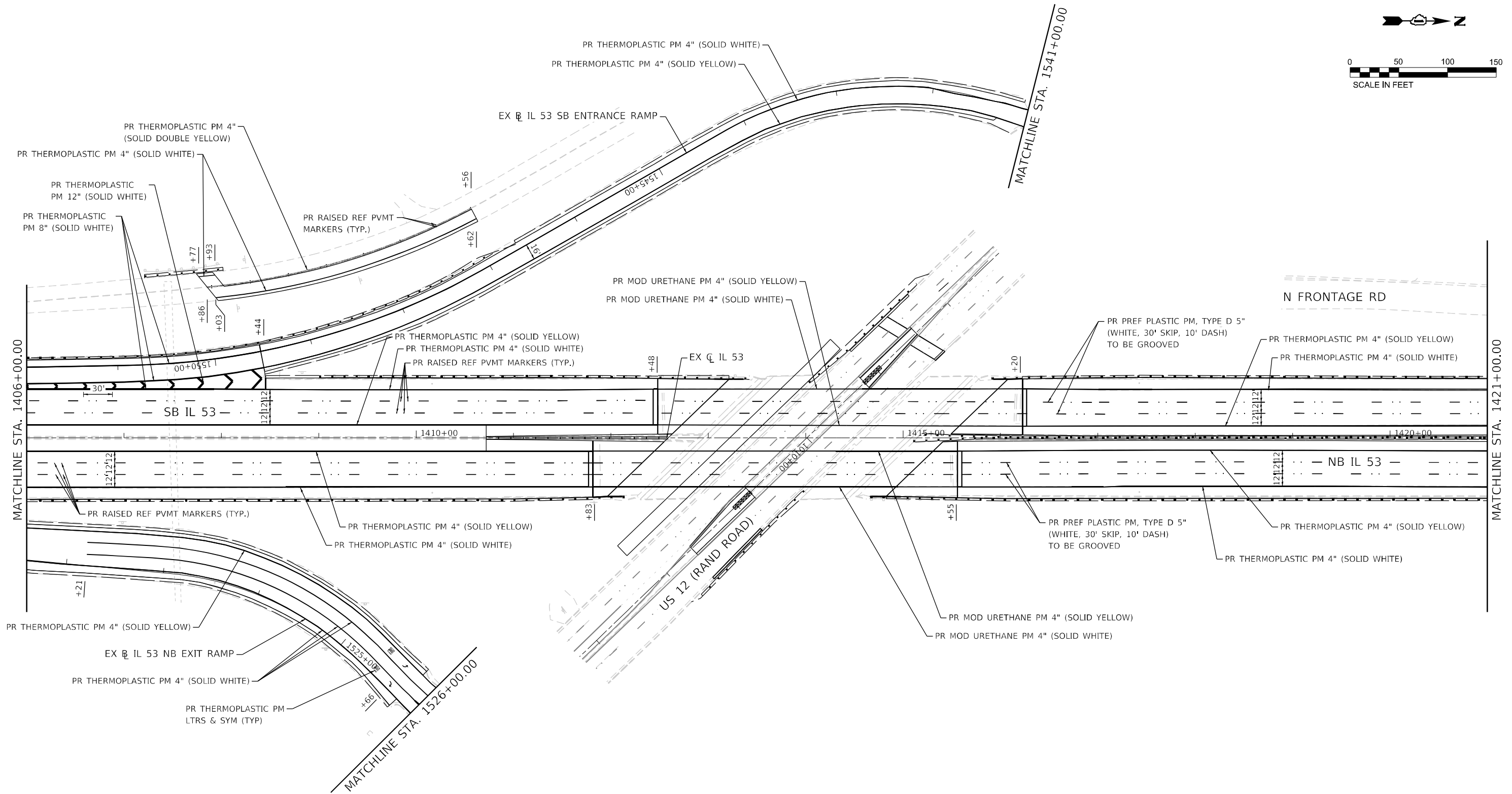
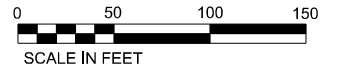
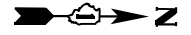


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PLOT DATE = \$DATE\$	DATE - 12/2024	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

IL 53 PAVEMENT MARKING PLAN		
SCALE: 1"=50'	SHEET 9 OF 20 SHEETS	STA. 1391+00.00 TO STA. 1406+00.00

F.A.P. RTE. 342	SECTION 2018-100-BR	COUNTY COOK	TOTAL SHEETS 1351	SHEET NO. 424
CONTRACT NO. 62N91				
ILLINOIS FED. AID PROJECT				



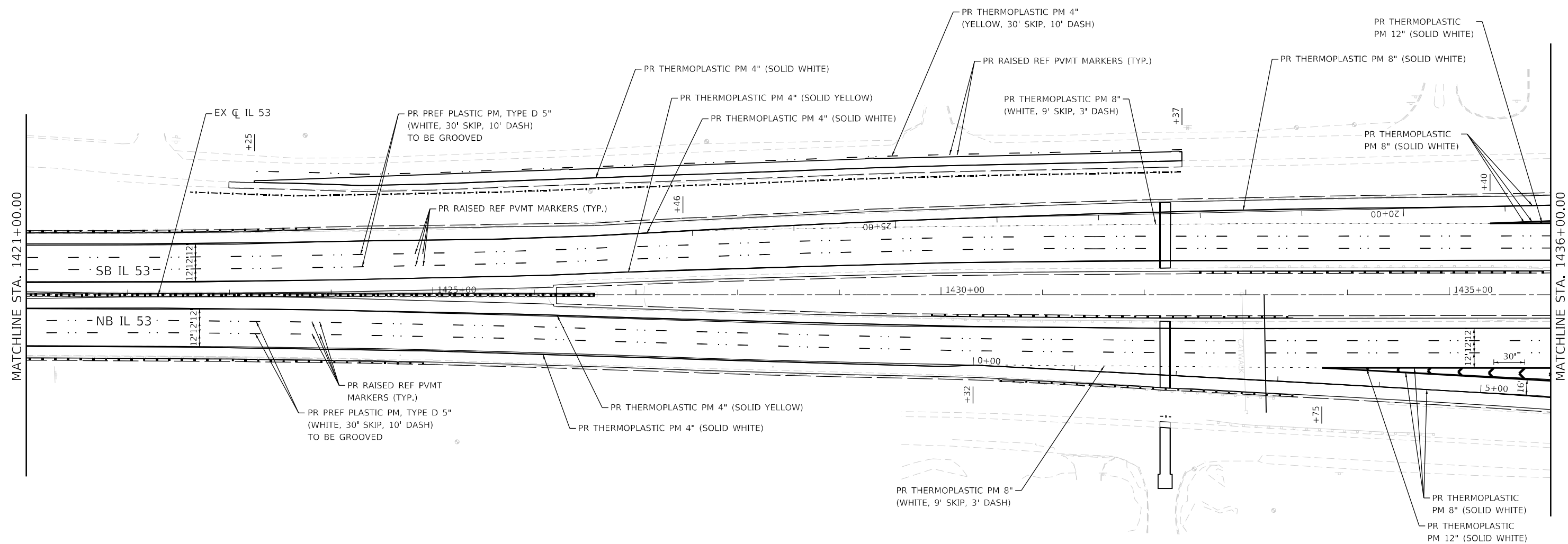
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PLOT DATE = \$DATE\$	DATE - 12/2024	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**IL 53
PAVEMENT MARKING PLAN**

SCALE: 1"=50' SHEET 10 OF 20 SHEETS STA. 1406+00.00 TO STA. 1421+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
342	2018-100-BR	COOK	1351	425
CONTRACT NO. 62N91				
ILLINOIS FED. AID PROJECT				



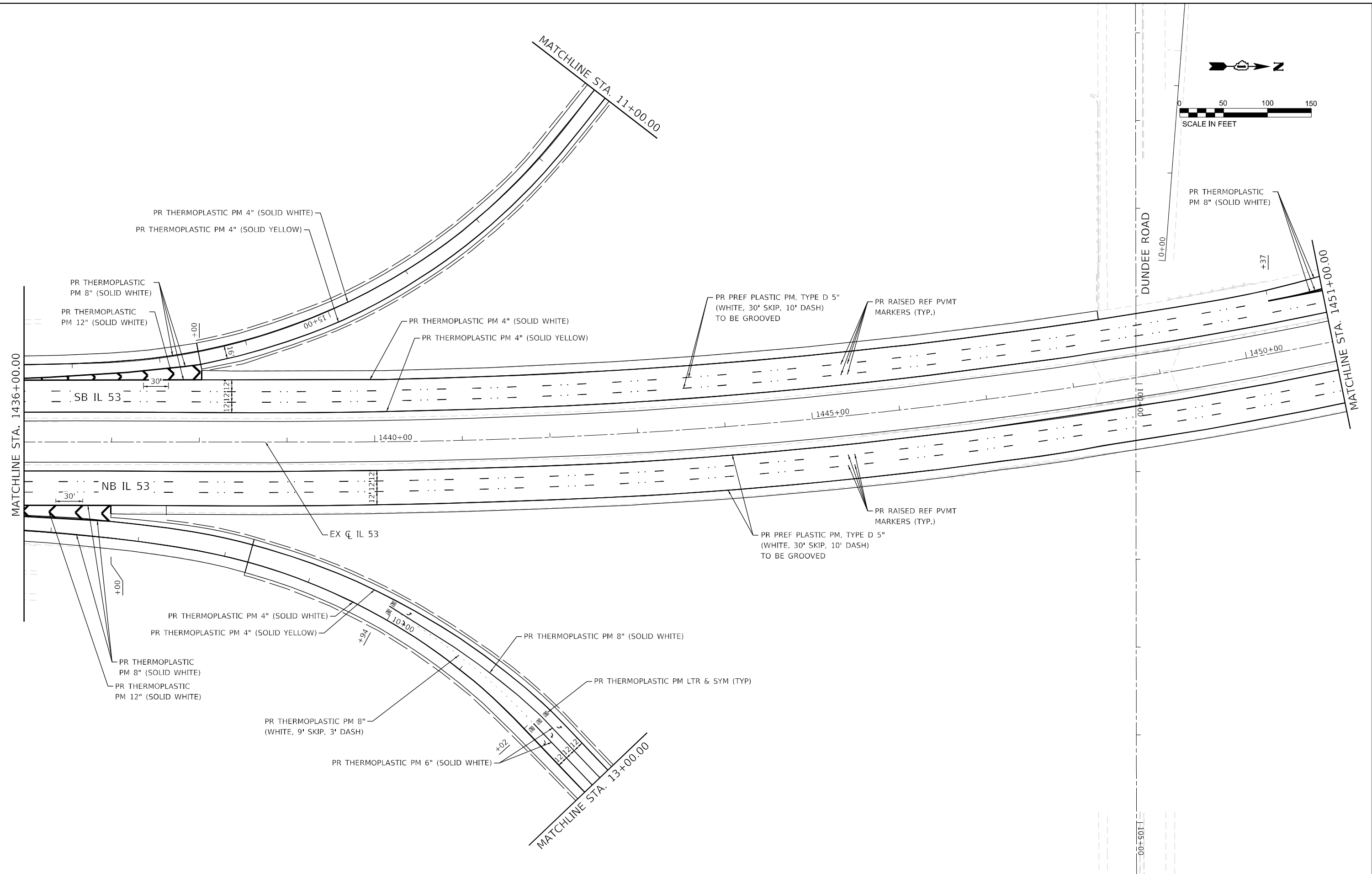
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PLOT DATE = \$DATE\$	DATE - 12/2024	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**IL 53
PAVEMENT MARKING PLAN**

SCALE: 1"=50' SHEET 11 OF 20 SHEETS STA. 1421+00.00 TO STA. 1436+00.00

F.A.P. RTE. 342	SECTION 2018-100-BR	COUNTY COOK	TOTAL SHEETS 1351	SHEET NO. 426
CONTRACT NO. 62N91				
ILLINOIS FED. AID PROJECT				

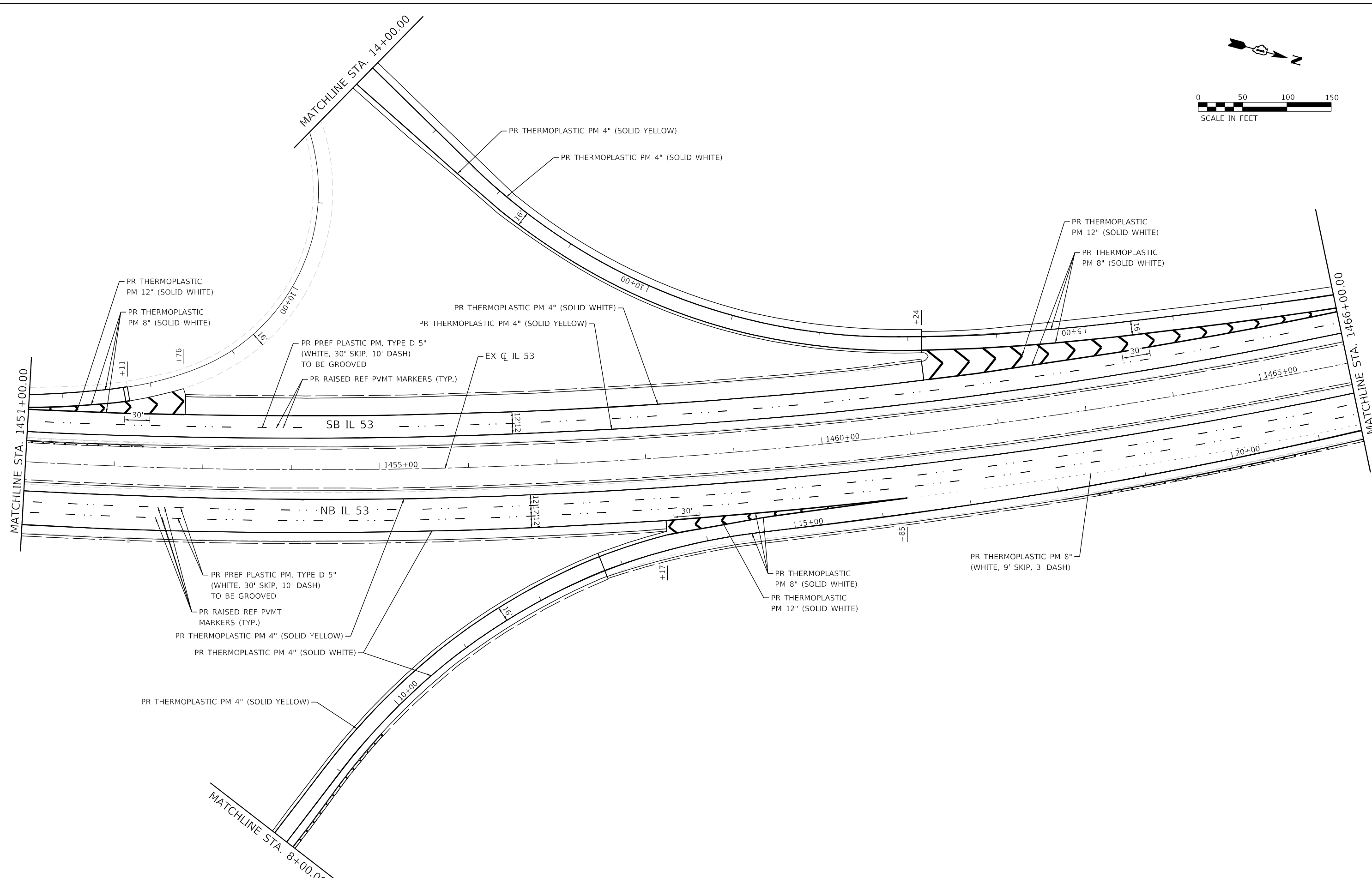
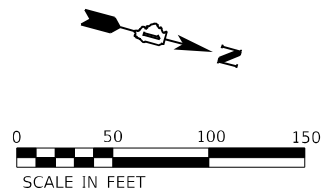


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PLOT SCALE = 100,0000' / in.	CHECKED - RC	REVISED -
PLOT DATE = \$DATE\$	DATE - 12/2024	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

IL 53 PAVEMENT MARKING PLAN	
SCALE: 1"=50'	SHEET 12 OF 20 SHEETS
STA. 1436+00.00 TO STA. 1451+00.00	

F.A.P. RTE. 342	SECTION 2018-100-BR	COUNTY COOK	TOTAL SHEETS 1351	SHEET NO. 427
CONTRACT NO. 62N91				
ILLINOIS FED. AID PROJECT				



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 Consulting Engineers
 Westmont, Illinois

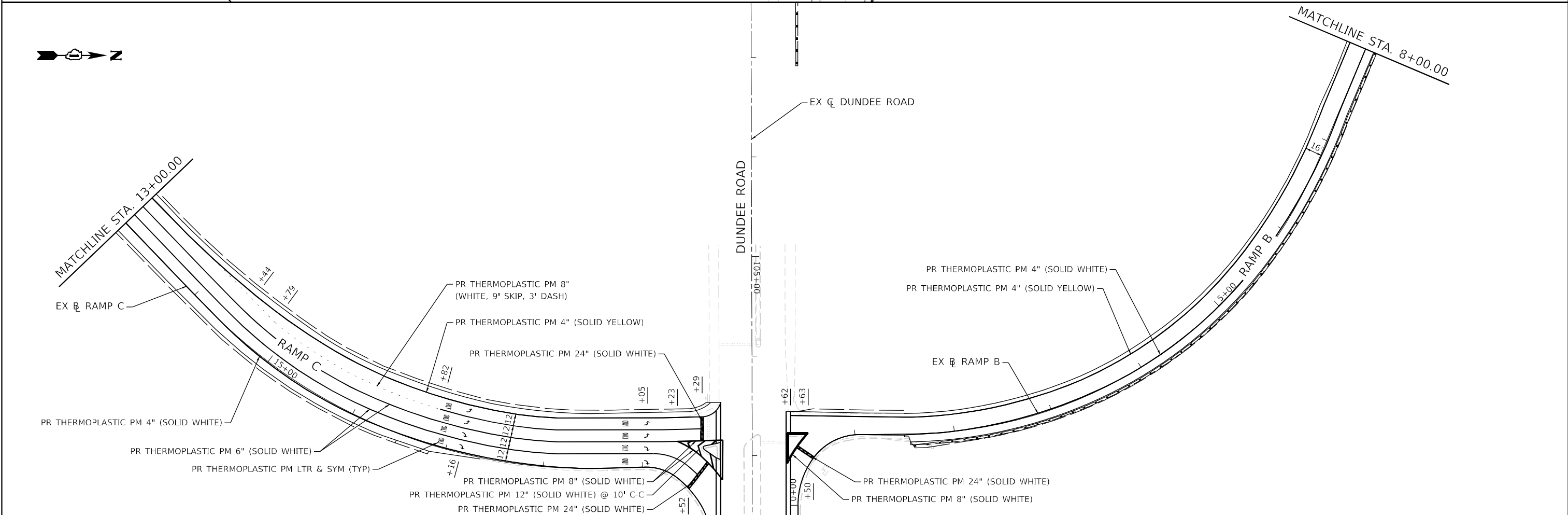
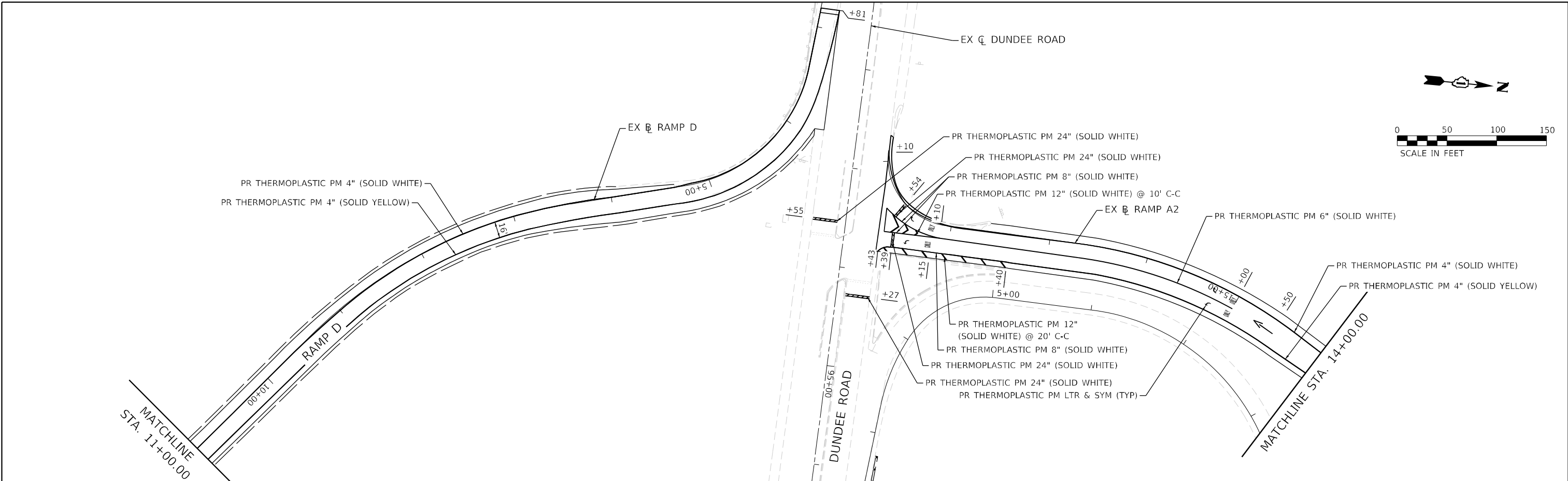
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DRAWN - JK	REVISED -	
PLOT SCALE = 100,0000' / in.	CHECKED - RC	REVISED -
PLOT DATE = \$DATE\$	DATE - 12/2024	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

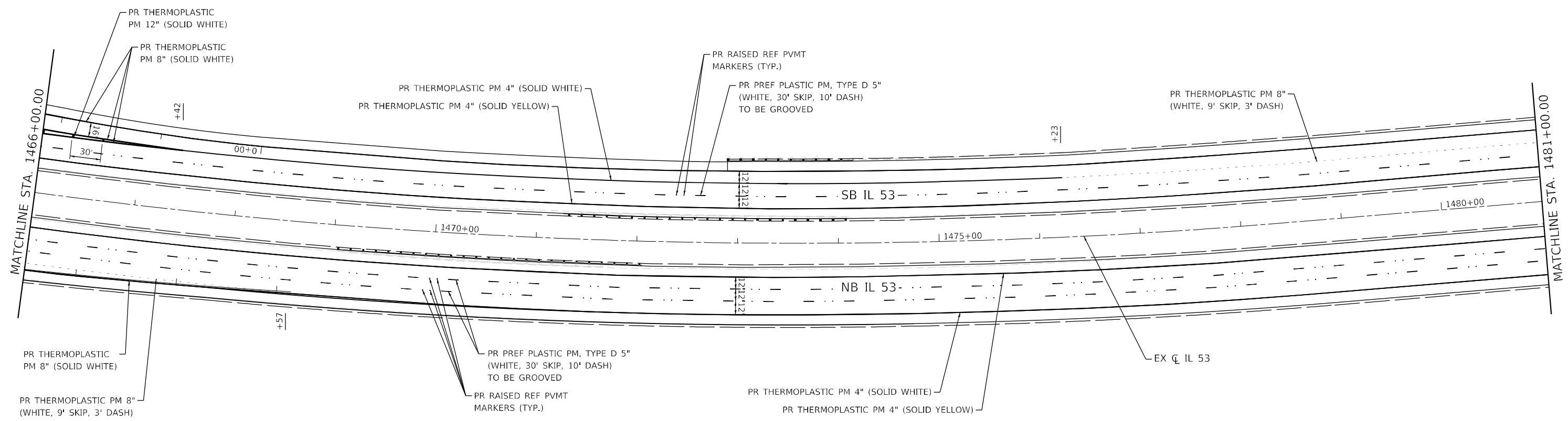
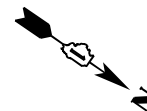
**IL 53
 PAVEMENT MARKING PLAN**

SCALE: 1"=50' SHEET 13 OF 20 SHEETS STA. 1451+00.00 TO STA. 1466+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
342	2018-100-BR	COOK	1351	428
CONTRACT NO. 62N91				
ILLINOIS FED. AID PROJECT				



<p>LIN ENGINEERING, LTD. Consulting Engineers Westmont, Illinois</p>	USER NAME = jkenn	DESIGNED - JK	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DUNDEE ROAD PAVEMENT MARKING PLAN	F.A.P. RTE. = 342	SECTION = 2018-100-BR	COUNTY = COOK	TOTAL SHEETS = 1351	SHEET NO. = 429			
	PLOT SCALE = 100,0000' / in.	CHECKED - RC	REVISED -			SCALE: 1"=50'	SHEET 14 OF 20 SHEETS	STA. 1451+00.00 TO STA. 1466+00.00	ILLINOIS FED. AID PROJECT				
	PLOT DATE = \$DATE\$	DATE - 12/2024	REVISED -										
	CONTRACT NO. 62N91												



Lin Engineering, Ltd.
Consulting Engineers
Westmont, Illinois

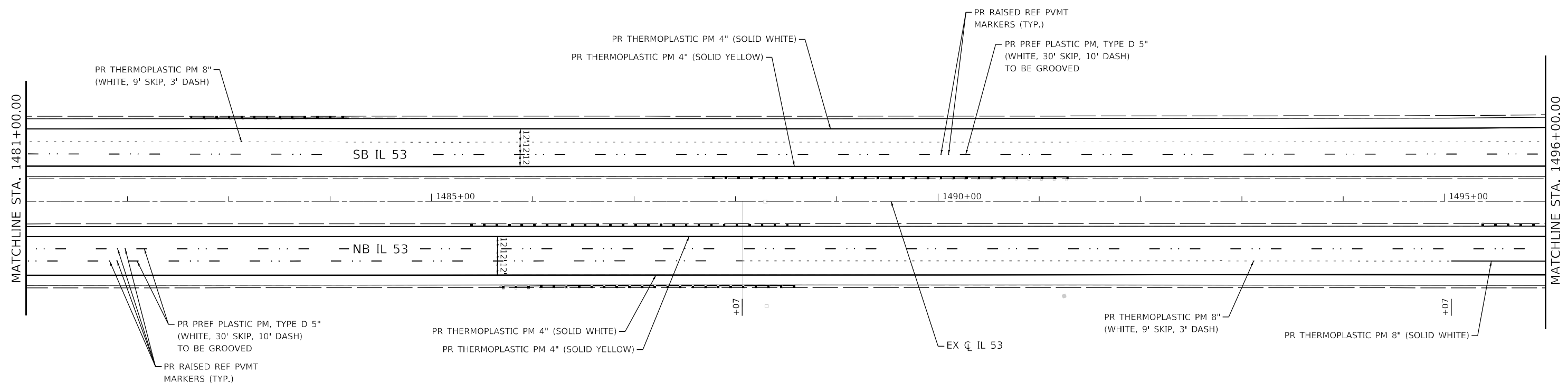
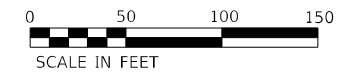
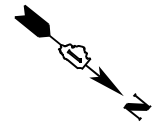
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PLOT DATE = \$DATE\$	DATE - 12/2024	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**IL 53
PAVEMENT MARKING PLAN**

SCALE: 1"=50' SHEET 15 OF 20 SHEETS STA. 1466+00.00 TO STA. 1481+00.00

F.A.P. RTE. 342	SECTION 2018-100-BR	COUNTY COOK	TOTAL SHEETS 1351	SHEET NO. 430
			CONTRACT NO. 62N91	
ILLINOIS FED. AID PROJECT				

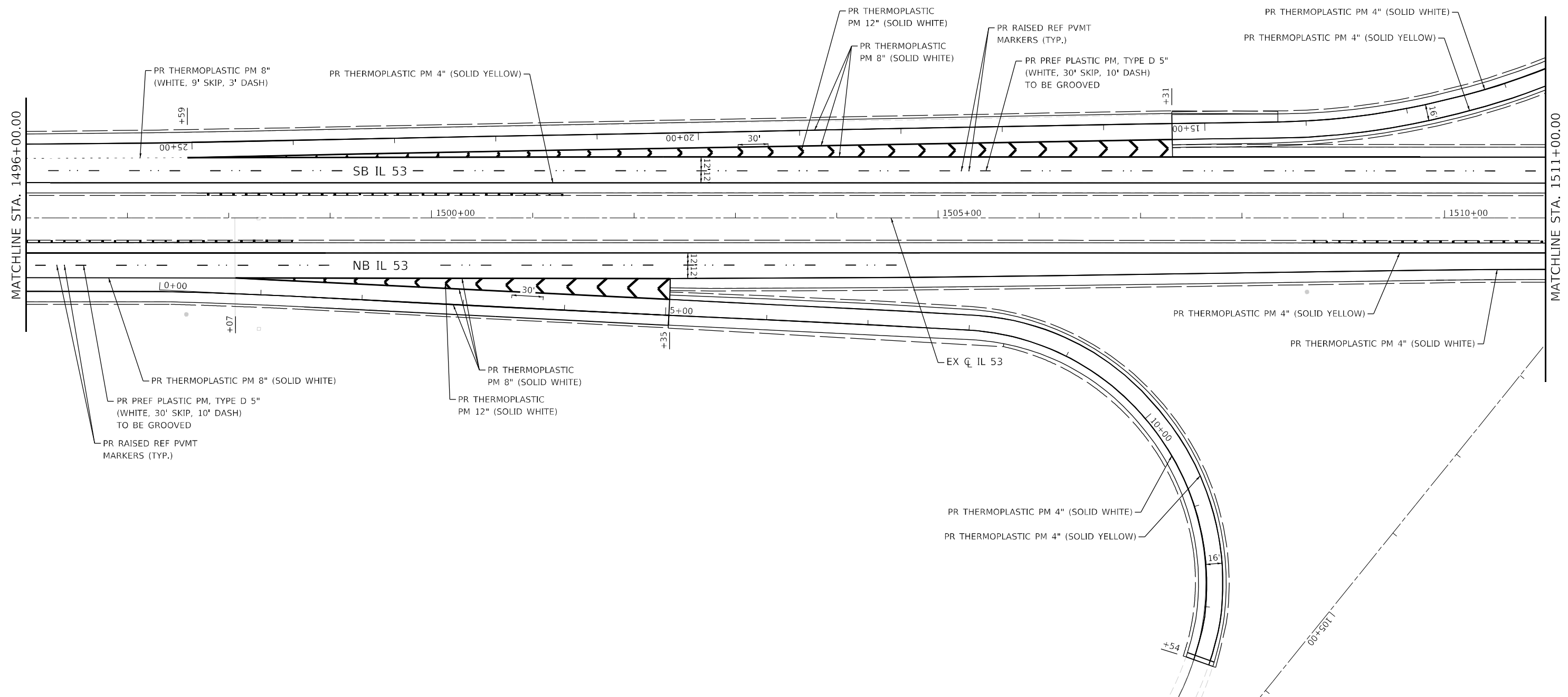
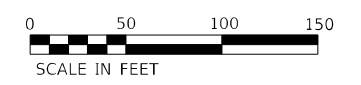
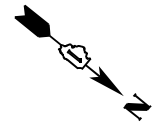


USER NAME = jxehh	DESIGNED - JK	REVISED -
	DRAWN - JK	REVISED -
PLOT SCALE = 100,0000' / in.	CHECKED - RC	REVISED -
PLOT DATE = \$DATE\$	DATE - 12/2024	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

IL 53 PAVEMENT MARKING PLAN	
SCALE: 1"=50'	SHEET 16 OF 20 SHEETS STA. 1481+00.00 TO STA. 1496+00.00

F.A.P. RTE. 342	SECTION 2018-100-BR	COUNTY COOK	TOTAL SHEETS 1351	SHEET NO. 431
			CONTRACT NO. 62N91	
ILLINOIS FED. AID PROJECT				

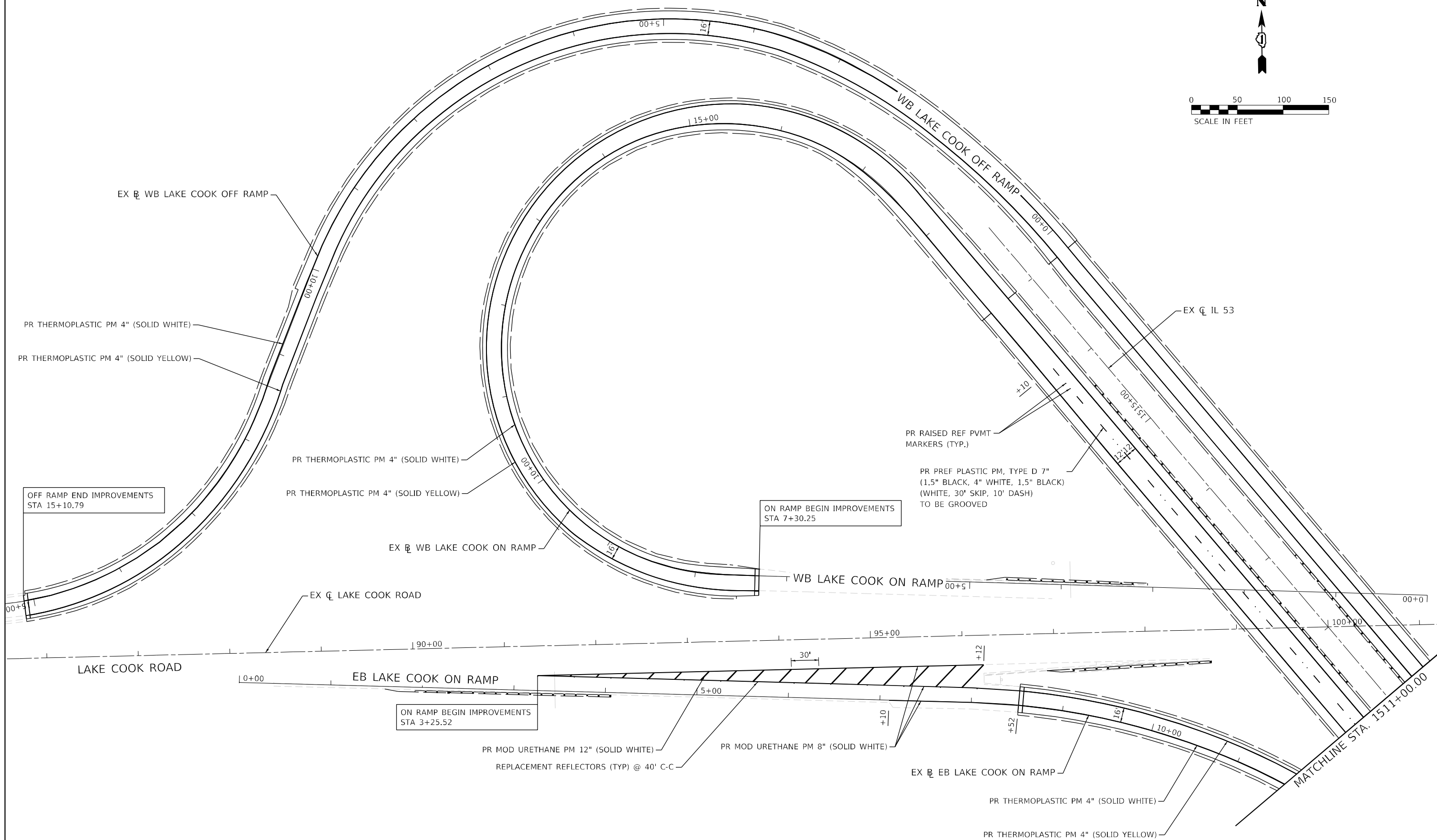


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	DRAWN - JK	REVISED -
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PLOT DATE = \$DATE\$	DATE - 12/2024	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

IL 53 PAVEMENT MARKING PLAN	
SCALE: 1"=50'	SHEET 17 OF 20 SHEETS
STA. 1496+00.00 TO STA. 1511+00.00	

F.A.P. RTE. 342	SECTION 2018-100-BR	COUNTY COOK	TOTAL SHEETS 1351	SHEET NO. 432
CONTRACT NO. 62N91				
ILLINOIS FED. AID PROJECT				

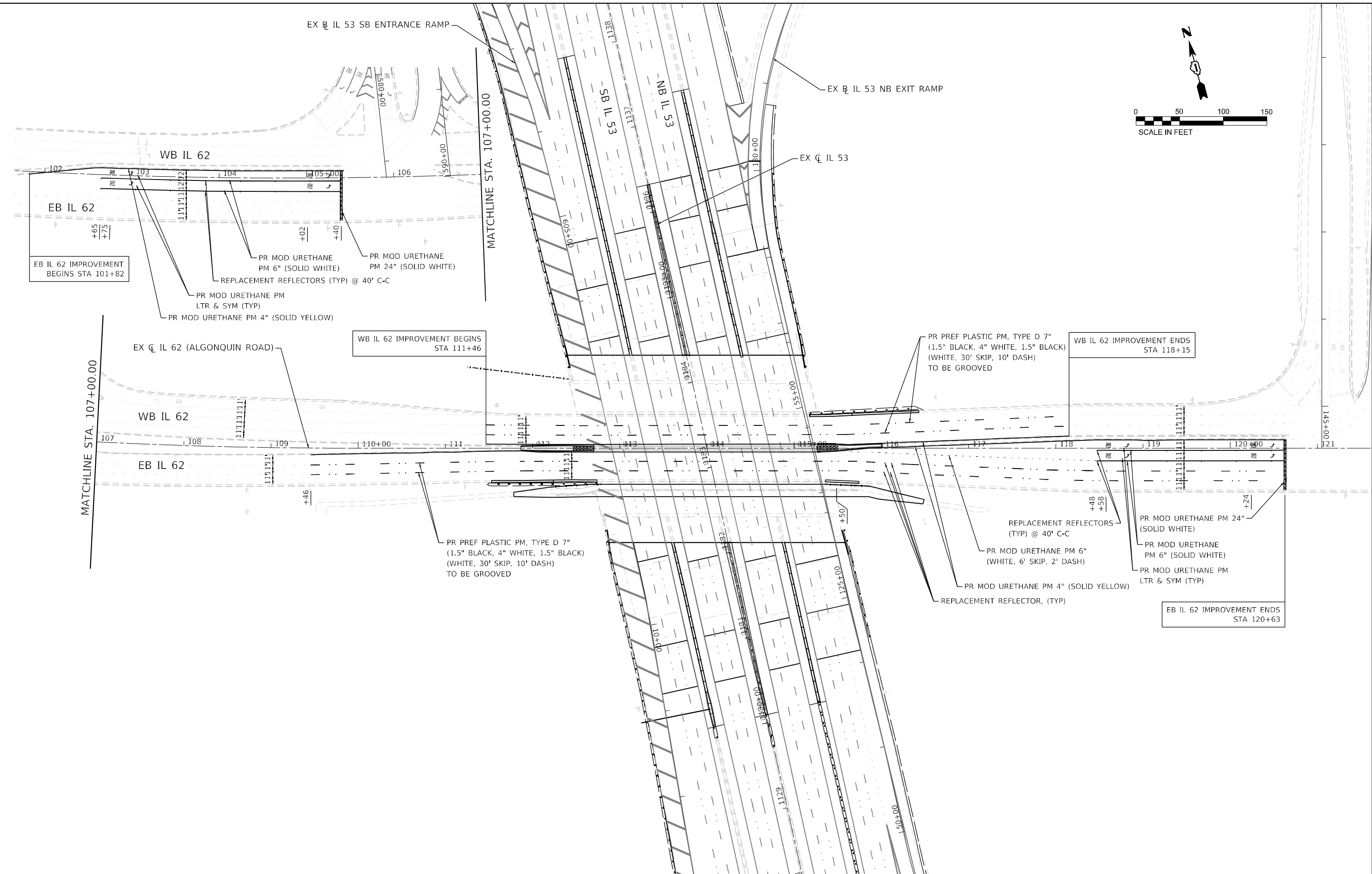
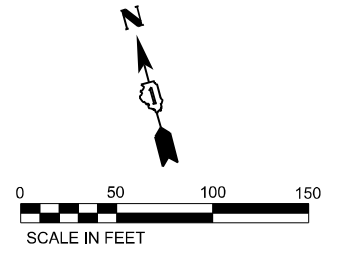


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	DRAWN - JK	REVISED -
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PLOT DATE = \$DATE\$	DATE - 12/2024	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

IL 53 PAVEMENT MARKING PLAN		
SCALE: 1"=50'	SHEET 18 OF 20 SHEETS	STA. 1511+00.00 TO STA. 1517+74.08

F.A.P. RTE. 342	SECTION 2018-100-BR	COUNTY COOK	TOTAL SHEETS 1351	SHEET NO. 433
			CONTRACT NO. 62N91	
ILLINOIS FED. AID PROJECT				

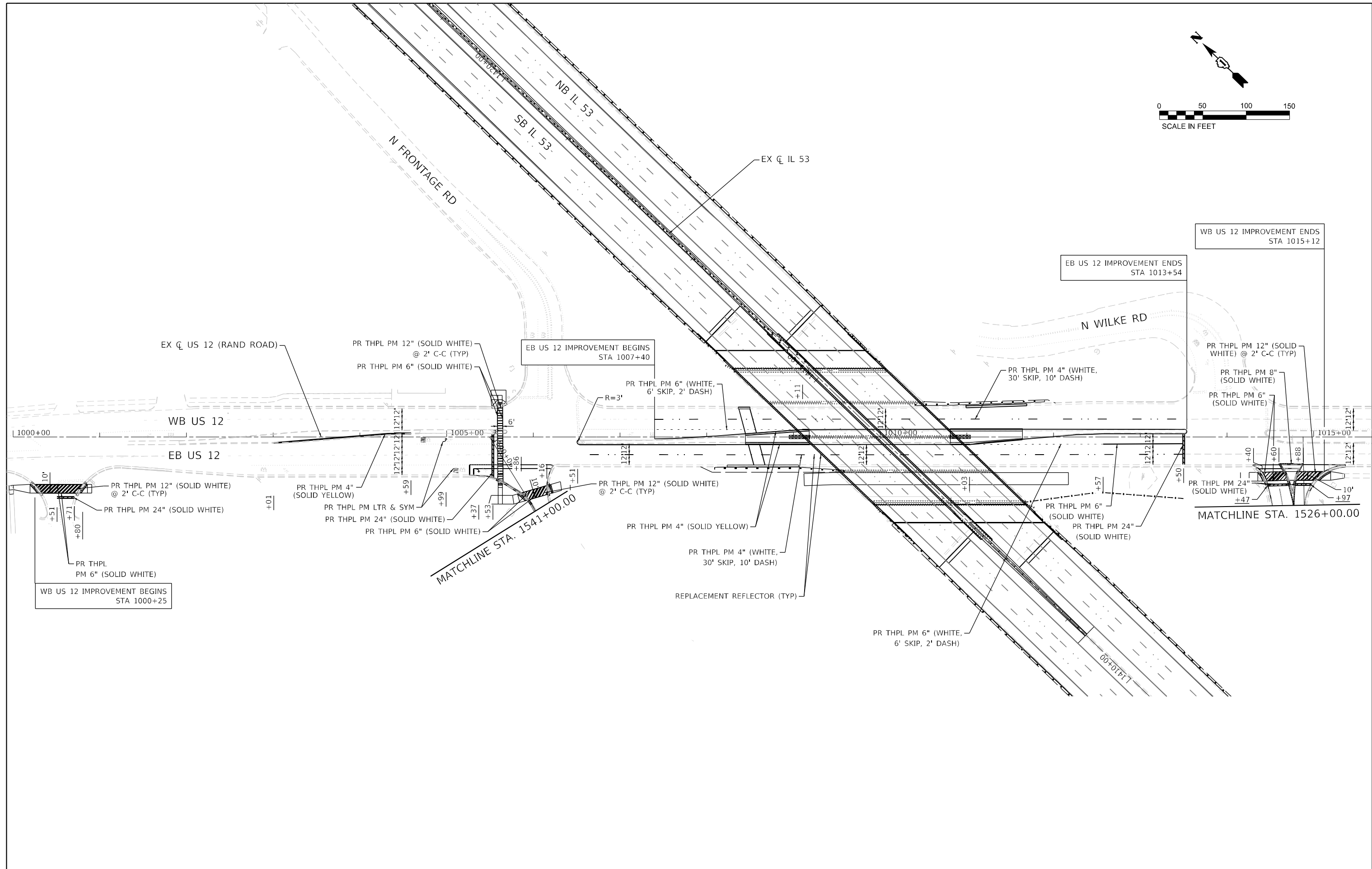
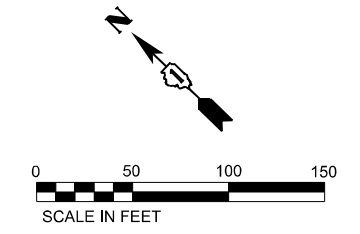


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PLOT SCALE = 100,0000' / in.	CHECKED - RC	REVISED -
PLOT DATE = \$DATE\$	DATE - 12/2024	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

IL RTE 62 (ALGONQUIN ROAD) PAVEMENT MARKING PLAN	
SCALE: 1"=50'	SHEET 19 OF 20 SHEETS
STA. 109+46.00	TO STA. 118+15.00

F.A.P. RTE. 342	SECTION 2018-100-BR	COUNTY COOK	TOTAL SHEETS 1351	SHEET NO. 434
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62N91	



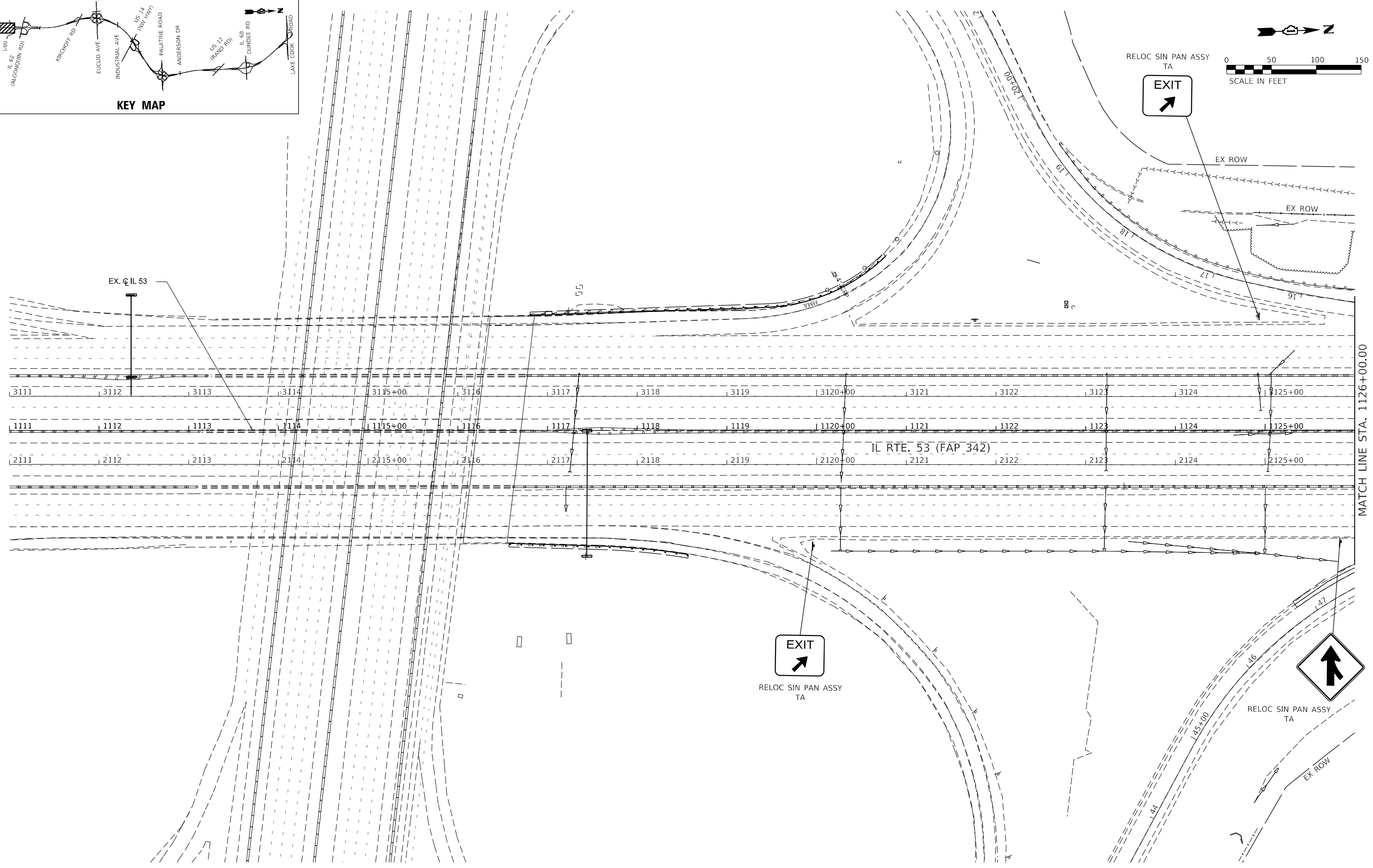
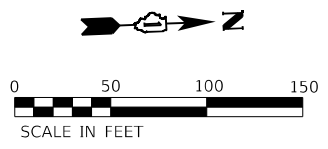
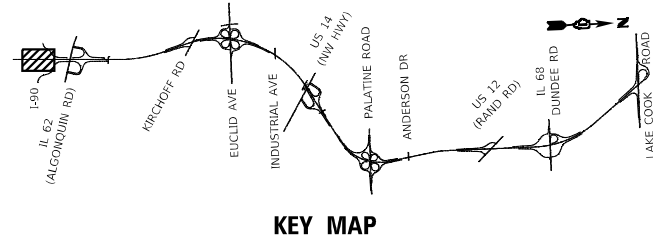
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PLOT DATE = \$DATE\$	DATE - 12/2024	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**US 12 (RAND ROAD)
PAVEMENT MARKING PLAN**

SCALE: 1"=50' SHEET 20 OF 20 SHEETS STA. 106+71.00 TO STA. 120+65.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
342	2018-100-BR	COOK	1351	435
CONTRACT NO. 62N91				
ILLINOIS FED. AID PROJECT				



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 USER: khalique
 DATE: 12/12/2024

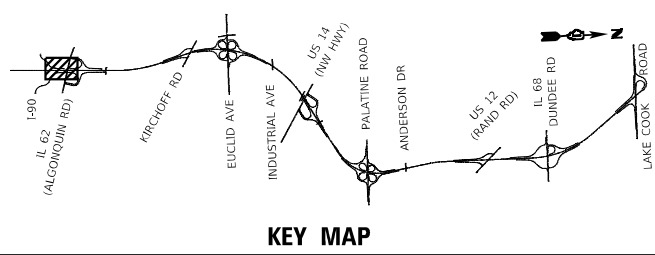
1016 W. JACKSON BLVD.
 CHICAGO, ILLINOIS 60607
 (312) 776-5591
PINPOINT
 PRECISION ENGINEERING

USER NAME = Abdul Khalique	DESIGNED - AK	REVISED -
DRAWN - MMA	REVISOR -	
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PLOT DATE = 12/12/2024	DATE -	REVISED -

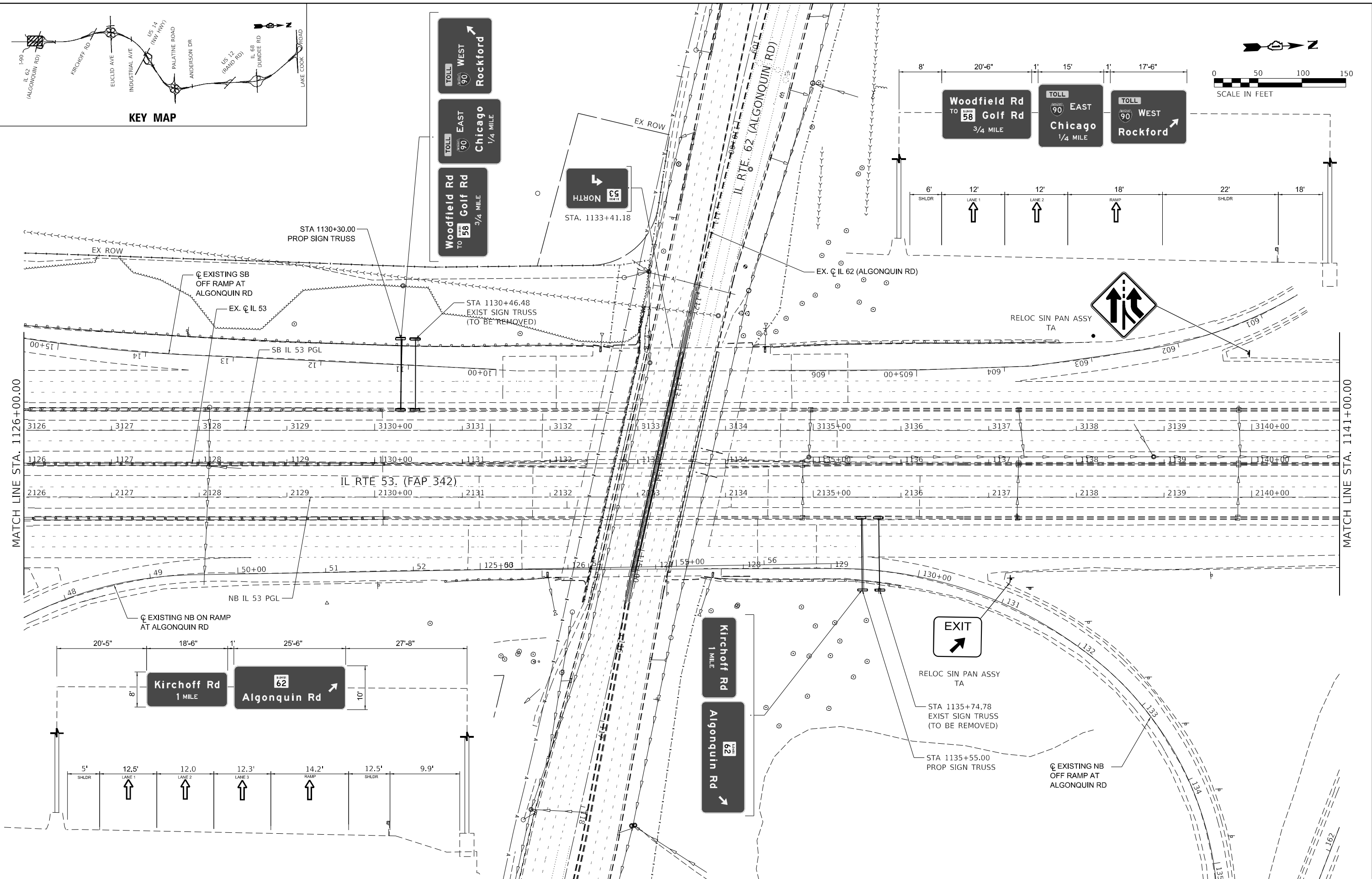
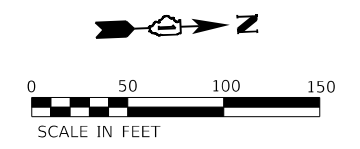
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL ROUTE 53		
SIGNING PLAN		
SCALE: 1" = 50'	SHEET 1 OF 9 SHEETS	STA. 1111+00.00 TO STA. 1126+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
342	2018-100-BR	COOK	1351	436
CONTRACT NO. 62N91				
ILLINOIS FED. AID PROJECT				



KEY MAP



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 DATE: 12/12/2024

1016 W. JACKSON BLVD.
 CHICAGO, ILLINOIS 60607
 (312) 776-6591
PIN POINT
 PRECISION ENGINEERING

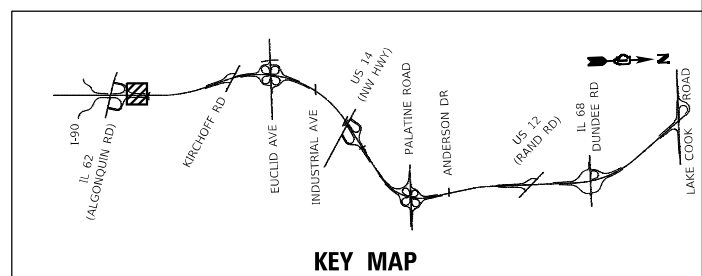
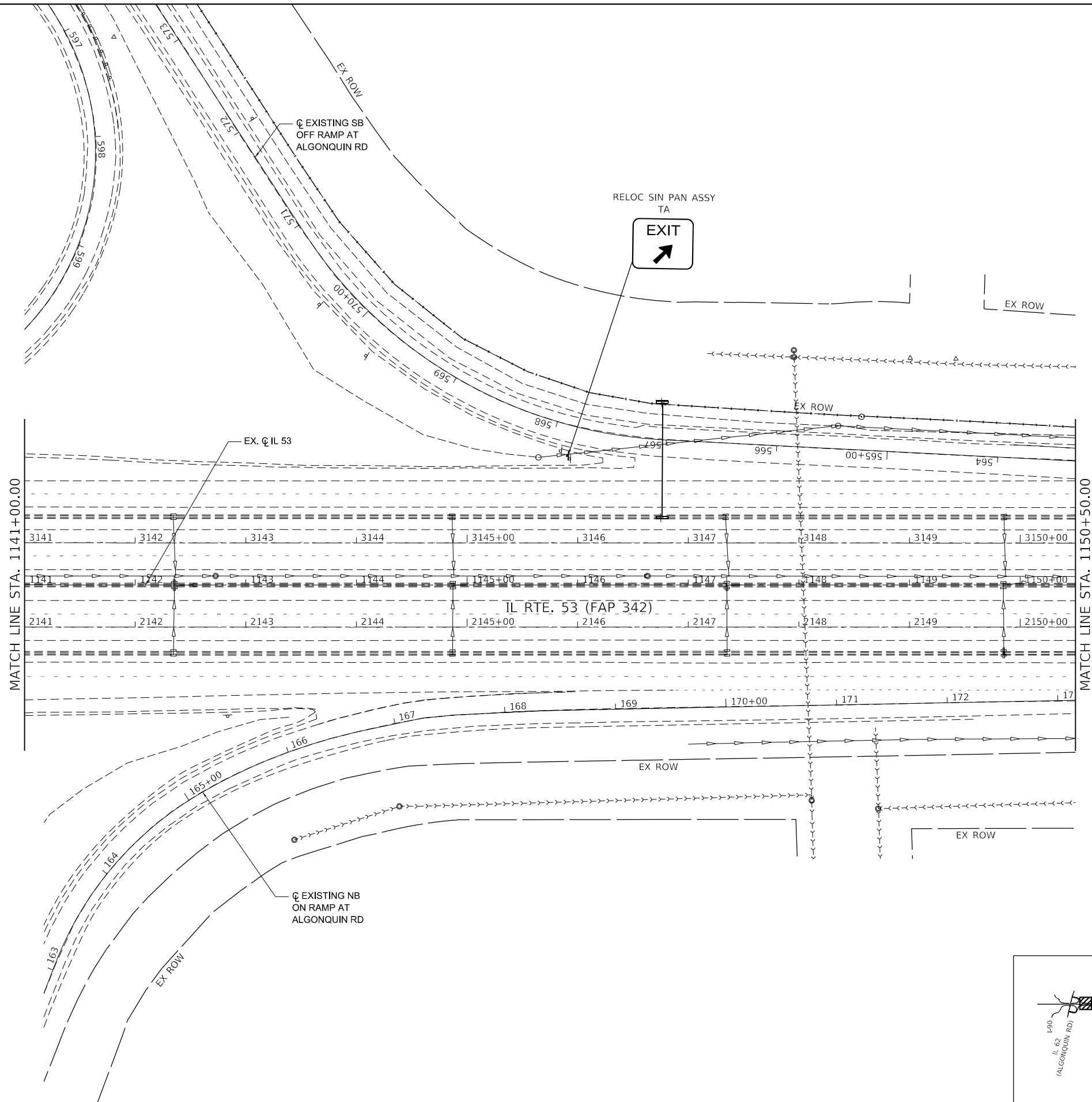
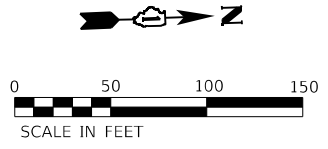
USER NAME = Abdul Khalique	DESIGNED - AK	REVISED -
DRAWN - MMA	REVISOR -	REVISION -
CHECKED - AAS	REVISOR -	REVISION -
DATE -	REVISOR -	REVISION -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL ROUTE 53
SIGNING PLAN

SCALE: 1" = 50' SHEET 2 OF 9 SHEETS STA. 1126+00.00 TO STA. 1141+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
342	2018-100-BR	COOK	1351	437
CONTRACT NO. 62N91				
ILLINOIS FED. AID PROJECT				



MODEL: D:\p\pinpoint\1141669696R\1141669696R.dwg
 FILE NAME: C:_project\1141669696R\1141669696R.dwg
 USER: AAS
 DATE: 12/12/2024

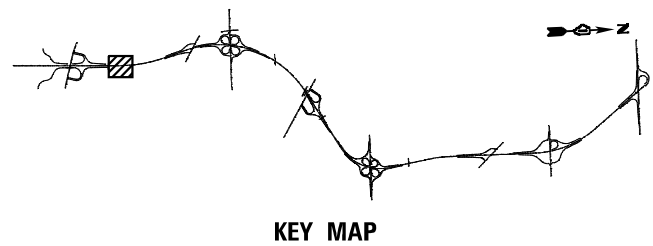
PIN POINT
 PRECISION ENGINEERING
 1016 W. JACKSON BLVD.
 CHICAGO, ILLINOIS 60607
 (312) 776-5591

USER NAME = Abdul Khaliq	DESIGNED - AK	REVISED -
DRAWN - MMA	REVISIONS -	
PLOT SCALE = 50,0000' / in.	CHECKED - AAS	REVISED -
PLOT DATE = 12/12/2024	DATE -	REVISED -

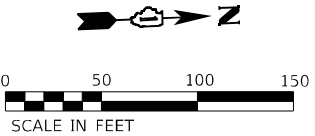
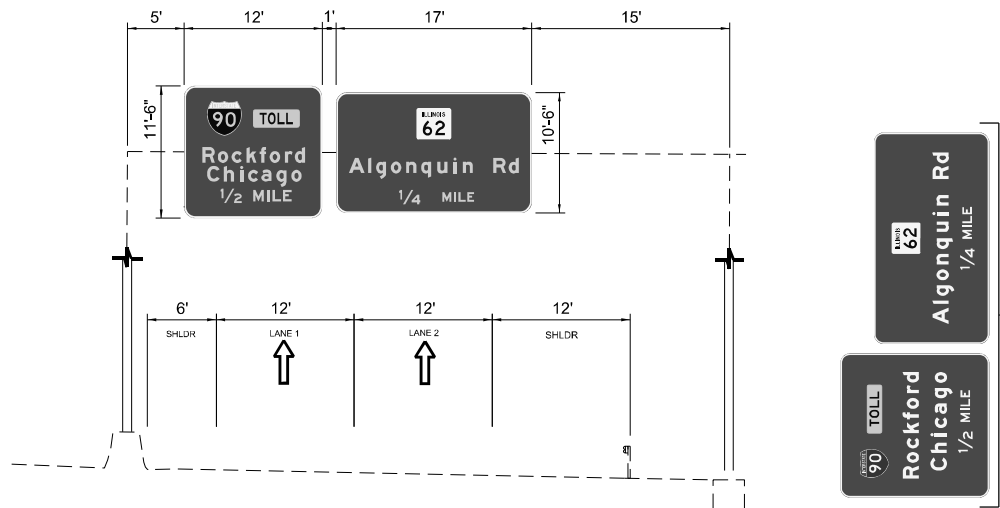
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL ROUTE 53 SIGNING PLAN		
SCALE: 1" = 50'	SHEET 3 OF 9 SHEETS	STA. 1141+00.00 TO STA. 1150+50.00

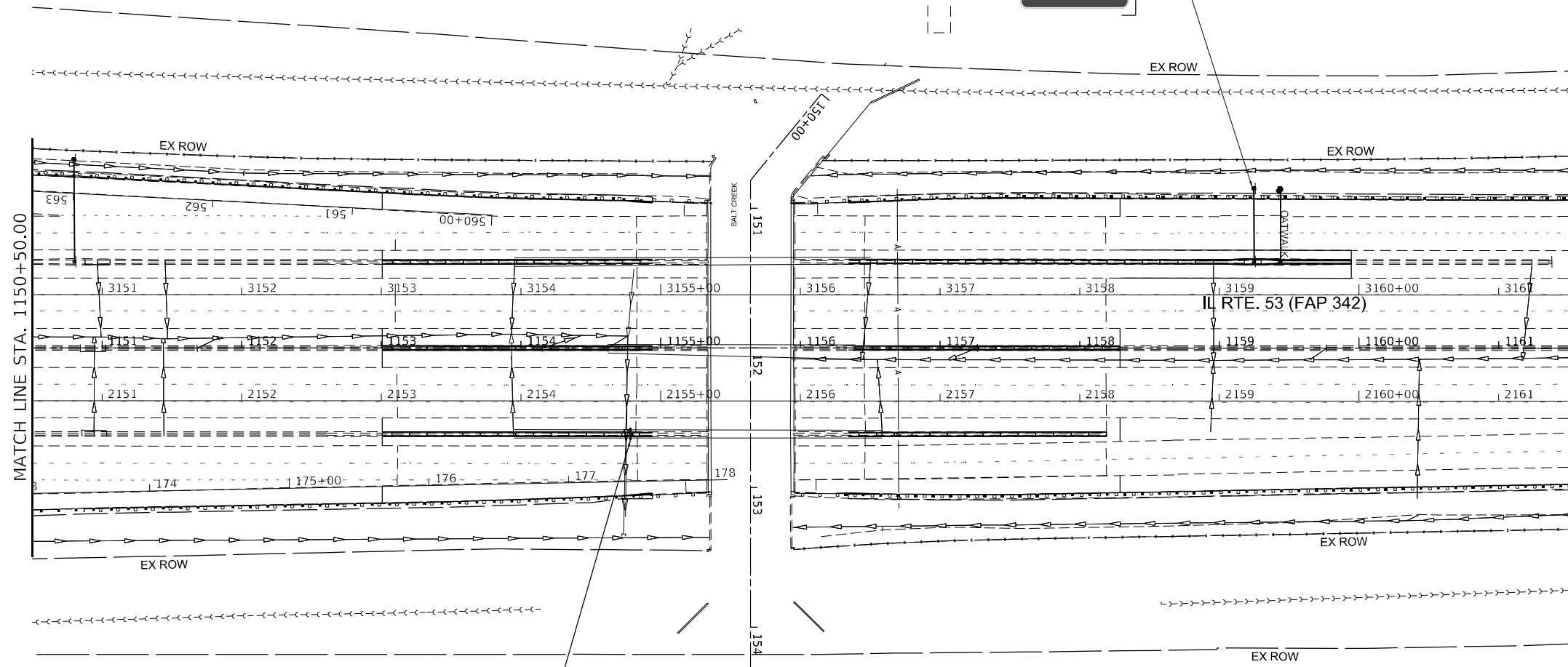
F.A.P. RTE. 342	SECTION 2018-100-BR	COUNTY COOK	TOTAL SHEETS 1351	SHEET NO. 438
CONTRACT NO. 62N91			ILLINOIS FED. AID PROJECT	



KEY MAP



SCALE IN FEET



MODEL: D:\p\full
 FILE NAME: G:\projects\2018\2018-100-01\1150+00\1150+00.dwg
 PROJECT: 2018-100-01
 SHEET: 4 OF 9
 DATE: 12/12/2024

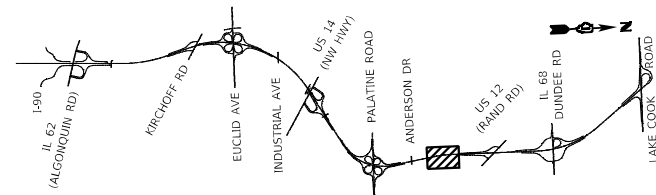
1016 W. JACKSON BLVD.
 CHICAGO, ILLINOIS 60607
PIN POINT
 PRECISION ENGINEERING
 (312) 776-5591

USER NAME = Abdul Khalique	DESIGNED - AK	REVISED -
DRAWN - MMA	REVISOR -	
PLOT SCALE = 100,0000' / in.	CHECKED - AAS	REVISED -
PLOT DATE = 12/12/2024	DATE -	REVISED -

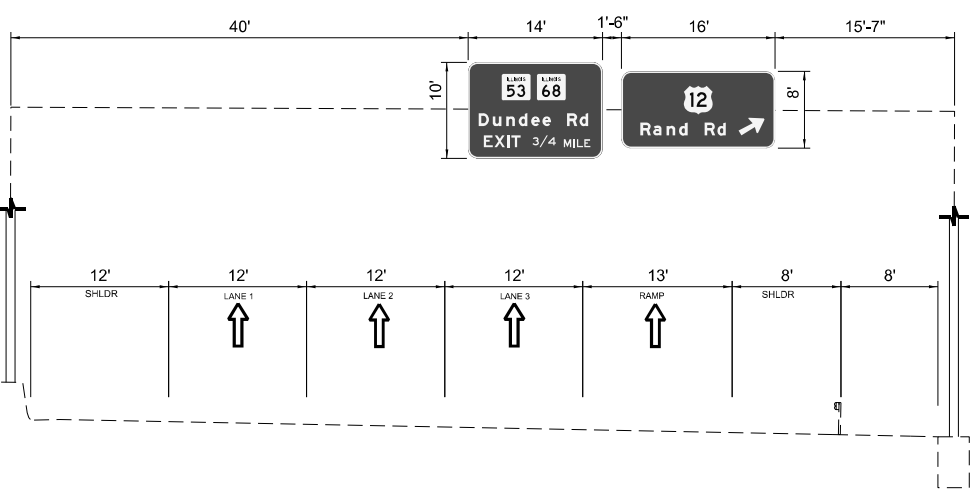
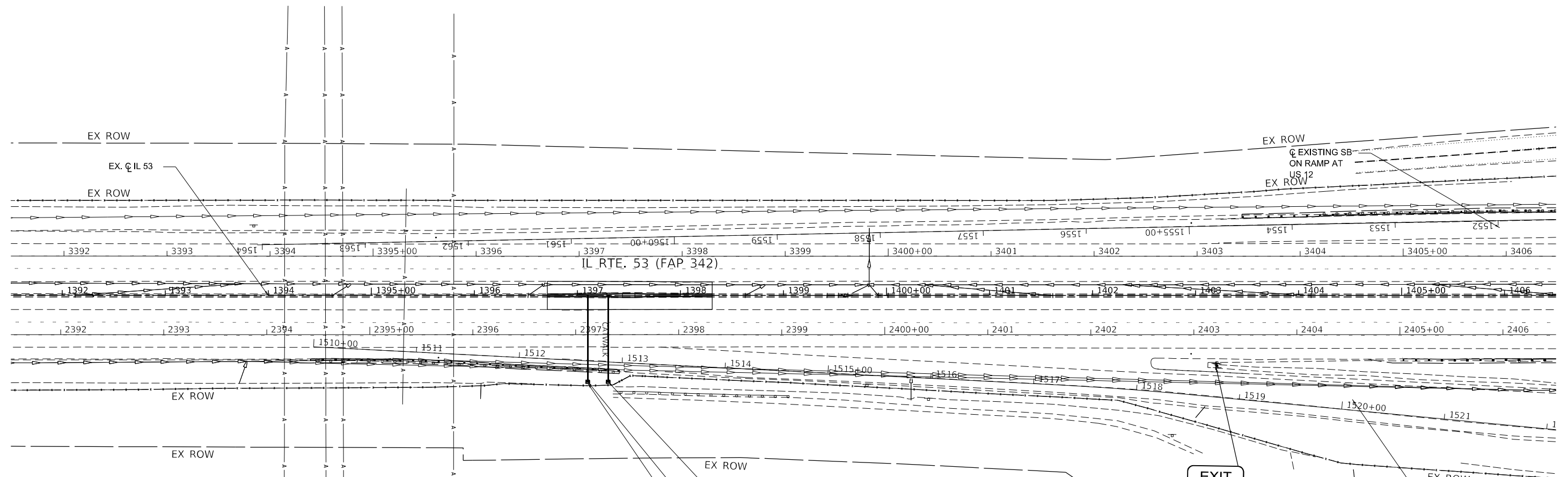
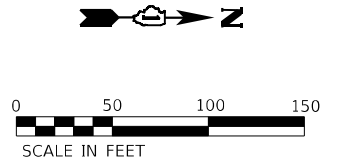
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL ROUTE 53
SIGNING PLAN
 SCALE: 1" = 50' SHEET 4 OF 9 SHEETS STA. 1150+50.00 TO STA. 1161+50.00

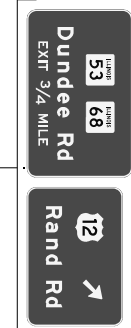
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
342	2018-100-BR	COOK	1351	439
CONTRACT NO. 62N91			ILLINOIS FED. AID PROJECT	



KEY MAP



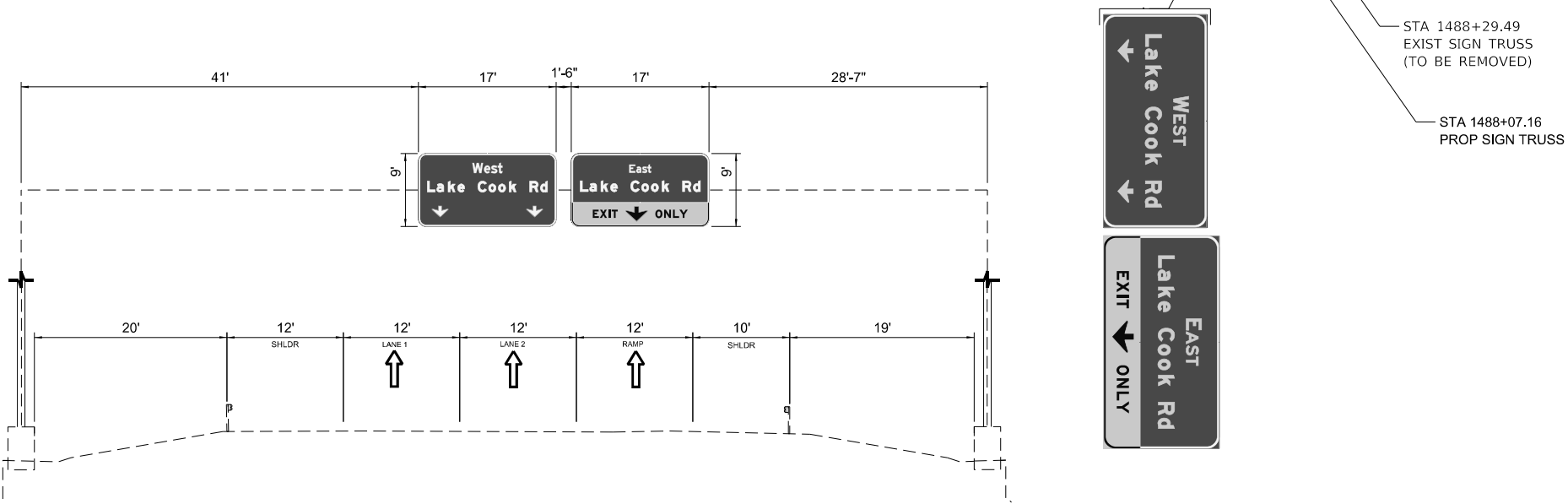
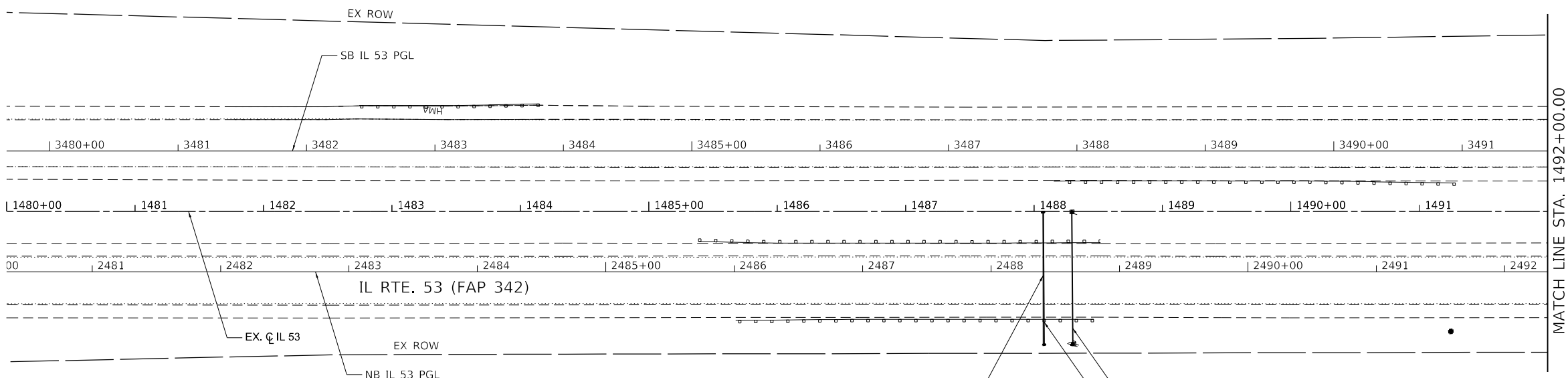
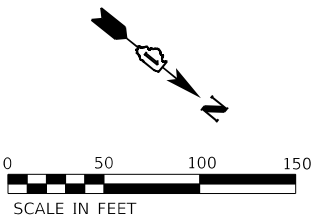
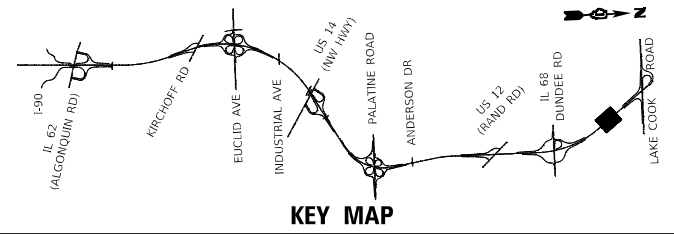
EX ROW
 STA 1397+29.76
 EXIST SIGN TRUSS
 (TO BE REMOVED)
 STA 1397+10.00
 PROP SIGN TRUSS



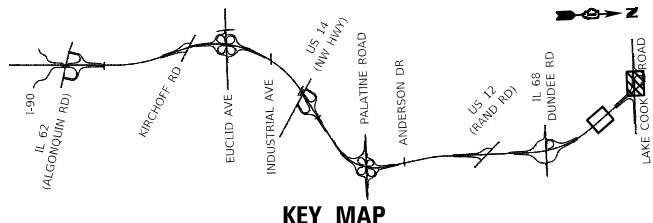
RELOC SIGN PAN ASSY
 TA

EX ROW
 Q. EXISTING NB
 OFF RAMP AT
 US 12

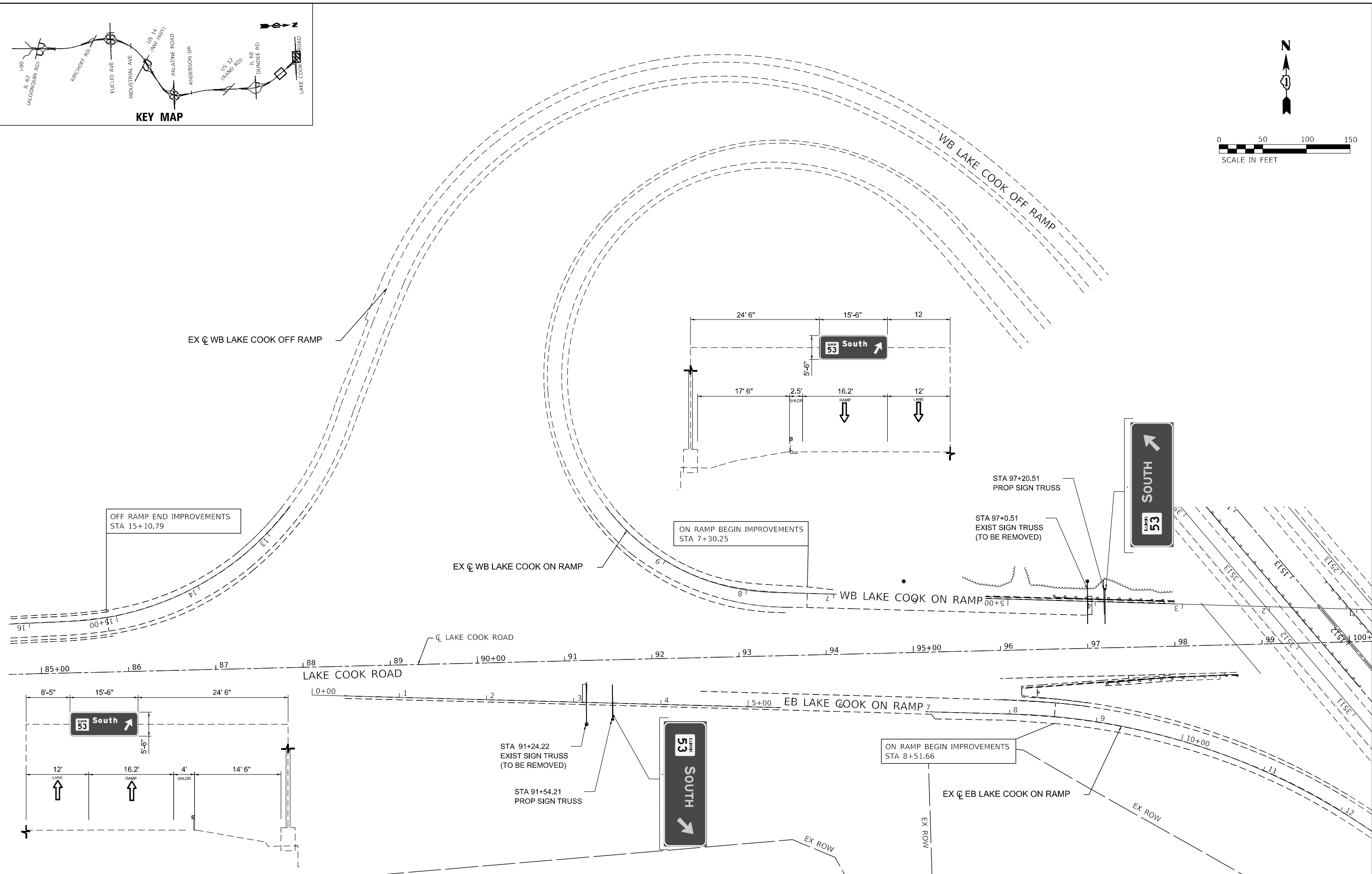
MODEL: D:\draft\1016 W. JACKSON BLVD. CHICAGO, ILLINOIS 60607
 FILE NAME: C:\projects\2018-100-BR\181222\DOT_Stand\Assemblies\Drawings\CAD\Drawings\C2-D\181222-D\181222-D\181222-D.dwg
 1016 W. JACKSON BLVD.
 CHICAGO, ILLINOIS 60607
 (312) 776-6591
 STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 IL ROUTE 53
 SIGNING PLAN
 SCALE: 1" = 50'
 SHEET 5 OF 9 SHEETS
 STA. 1391+50.00 TO STA. 1406+50.00
 F.A.P. RTE. 342 SECTION 2018-100-BR COUNTY COOK TOTAL SHEETS 1351 SHEET NO. 440 CONTRACT NO. 62N91 ILLINOIS FED. AID PROJECT



MODEL: Default; FILE NAME: C:\Users\khalique\Documents\Projects\182022\182022-1\DOT-Stand-Associates\Drawings\CADD\Sheets\C2-3\182N91-182-182-182.dwg



KEY MAP



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1016 W. JACKSON BLVD.
 CHICAGO, ILLINOIS 60607
 (312) 776-6591
PINPOINT
PRECISION ENGINEERING

USER NAME = Abdul Khalique
PLOT SCALE = 50.0000' / in.
PLOT DATE = 12/12/2024

DESIGNED - AK	DESIGNED - AK
DRAWN - MMA	REVIS
CHECKED - AAS	REVIS
DATE -	REVIS

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

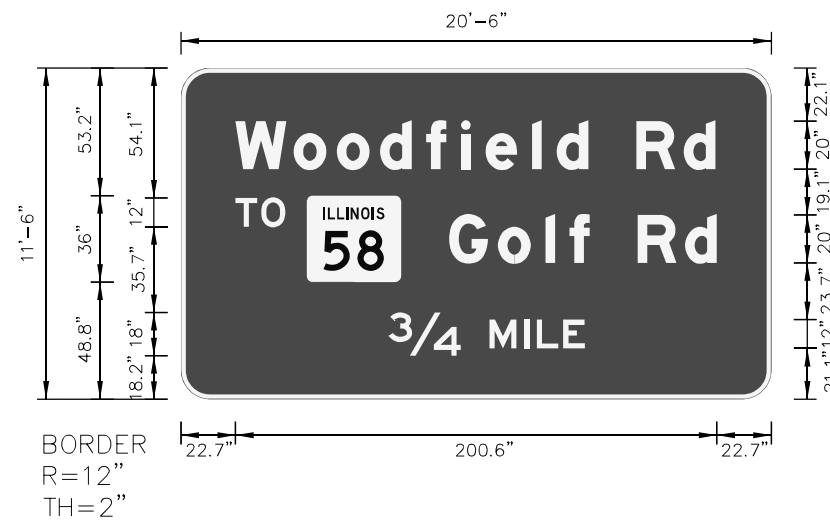
ILLINOIS ROUTE 53
SIGNING PLAN

SCALE: SHEET 9 OF 9 SHEETS STA. 1517+00.00 TO STA. 12+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
342	2018-100-BR	COOK	1351	444
CONTRACT NO. 62N91			ILLINOIS FED. AID PROJECT	

SIGN DETAIL

1:75



Panel Style: guide_exp_advance_a.ssi
Dimensions are in inches.tenths

Panel Style: guide_exp_advance_a.ssi
M.U.T.C.D.: 2009 Edition

Letter locations are panel edge to lower left corner

SIGN NUMBER	name
WIDTH x HGHT.	20'-6" x 11'-6"
BORDER WIDTH	2"
CORNER RADIUS	12"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective COLOR: Green
LEGEND/BORDER	TYPE: Reflective COLOR: WhiteWhite

SYMBOL	ROT	X	Y	WID	HT
M1-1100A-2-22-100	0	52.4	48.8	39.3	36

LETTER POSITIONS (X)

LENGTH SERIESIZE

Letter	X	Y	W	H
W	22.7	48.8	46.9	36
o	64.9	48.8	36	36
o	102.1	48.8	36	36
d	146.3	48.8	36	36
f	189.7	48.8	36	36
i	209.5	48.8	36	36
e	209.5	53.2	36	36
l	209.5	53.2	36	36
d	209.5	53.2	36	36
R	209.5	53.2	36	36
d	209.5	53.2	36	36
T	22.7	18.2	33.4	20.8
O	33.4	18.2	33.4	20.8
G	111.7	18.2	36	20.8
o	151.9	18.2	36	20.8
l	190.3	18.2	36	20.8
f	210.1	18.2	36	20.8
R	210.1	18.2	36	20.8
d	210.1	18.2	36	20.8
3/4	86.6	18.2	36	18,12
M	128.5	18.2	36	18,12
I	142.9	18.2	36	18,12
L	148.2	18.2	36	18,12
E	159.3	18.2	36	18,12

MODEL: D:\p1\...
 FILE NAME: C:\...
 PROJECT: ...
 DATE: ...

SIGN DETAIL

1:75



SIGN NUMBER	name
WIDTH x HGHT.	15'-0" x 14'-6"
BORDER WIDTH	2"
CORNER RADIUS	12"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective
	COLOR: Green
LEGEND/BORDER	TYPE: Reflective
	COLOR: White/Black/White

SYMBOL	ROT	X	Y	WID	HT
M1_1	0	34.4	85.9	36	36

Panel Style: guide_exp_advance_a.ssi
 Dimensions are in inches.tenths

Panel Style: guide_exp_advance_a.ssi
 M.U.T.C.D.: 2009 Edition

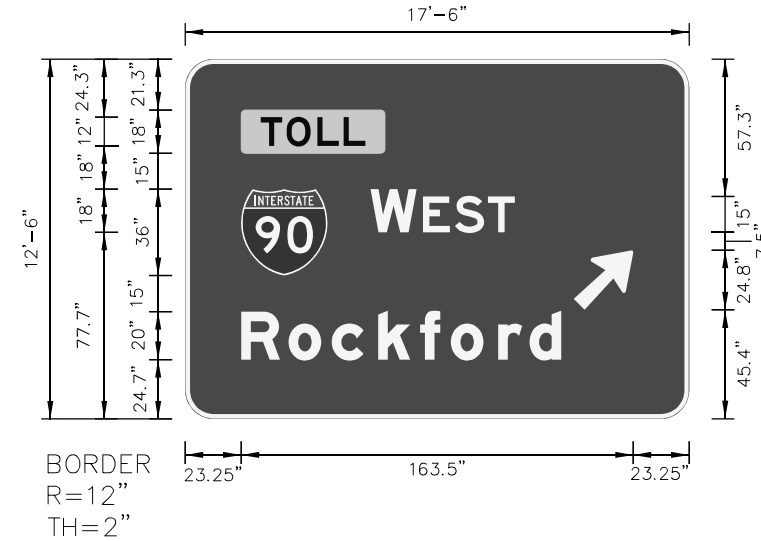
Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)

LETTER	POSITION (X)	LENGTH	SERIES/SIZE
T	30.6	43.6	E 2000
O	41.3	12	
L	54.1		
L	65.2		
E	88.4	57.4	E 2000
A	103.8		18,15
S	120.7		
T	134.5		
C	34.4	123.2	EM 2000
h	56.2		20/15
i	77.4		
c	87.6		
a	105.2		
g	124.6		
o	144		
1/4	57	78.1	E 2000
M	95.3		18,12
I	109.7		
L	115		
E	126		

MODEL: D:\pilot... FILE: NAME: C:\projects\route53\... USER: AK

SIGN DETAIL
1:75



SIGN NUMBER	name
WIDTH x HGHT.	17'-6" x 12'-6"
BORDER WIDTH	2"
CORNER RADIUS	12"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective COLOR: Green
LEGEND/BORDER	TYPE: Reflective COLOR: White/Black/White

SYMBOL	ROT	X	Y	WID	HT
M1_1	0	23.3	59.7	36	36
AR_Type A	315	161.9	45.5	20	31.5

Panel Style: guide_exp_advance_a.ssi
Dimensions are in inches.tenths

Panel Style: guide_exp_advance_a.ssi
M.U.T.C.D.: 2009 Edition

Letter locations are panel edge to lower left corner

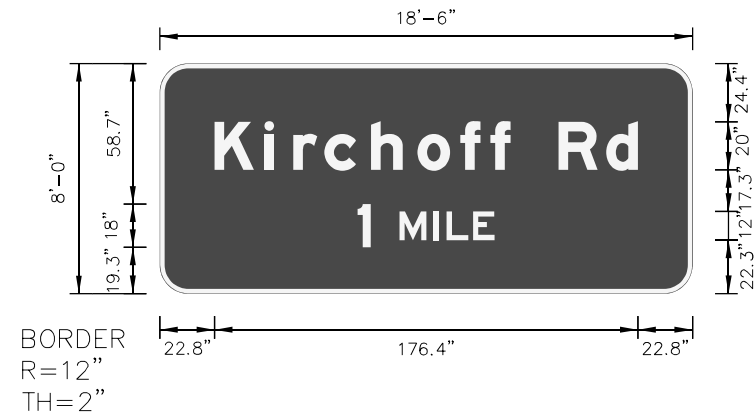
LETTER POSITIONS (X)

																							LENGTH	SERIESIZE
T	O	L	L																					E 2000
31.5	42.2	55	66																				43.6	12
W	E	S	T																					E 2000
77.3	99	112.4	126.2																				60.2	18,15
R	o	c	k	f	o	r	d																	EM 2000
23.3	43.1	61.1	80.5	97.9	110.7	130.5	143.5																133.4	20/15

MODEL: D:\p\m\... FILE NAME: ...

SIGN DETAIL

1:75



Panel Style: guide_exp_advance_a.ssi
Dimensions are in inches.tenths

Panel Style: guide_exp_advance_a.ssi
M.U.T.C.D.: 2009 Edition

Letter locations are panel edge to lower left corner

SIGN NUMBER	name
WIDTH x HGHT.	18'-6" x 8'-0"
BORDER WIDTH	2"
CORNER RADIUS	12"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective COLOR: Green
LEGEND/BORDER	TYPE: Reflective COLOR: WhiteWhite

SYMBOL	ROT	X	Y	WID	HT

LETTER POSITIONS (X)

											LENGTH	SERIES/SIZE
K	i	r	c	h	o	f	f		R	d		EM 2000
22.8	43.6	55.6	68.6	88	107.4	125.2	137.8	146.2	166.2	186	176.4	20/15
1	M	I	L	E								E 2000
82.4	99.8	114.2	119.5	130.6							57.1	18,12

PIN POINT	1016 W. JACKSON BLVD. CHICAGO, ILLINOIS 60607 (312) 776-5591	USER NAME = Abdul Khaliq	DESIGNED - AK DRAWN - MMA	REVISED -	REVISED -
		PLOT SCALE = 50.0000 ' / in.	CHECKED - AAS	REVISED -	REVISED -
		PLOT DATE = 12/12/2024	DATE -	REVISED -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

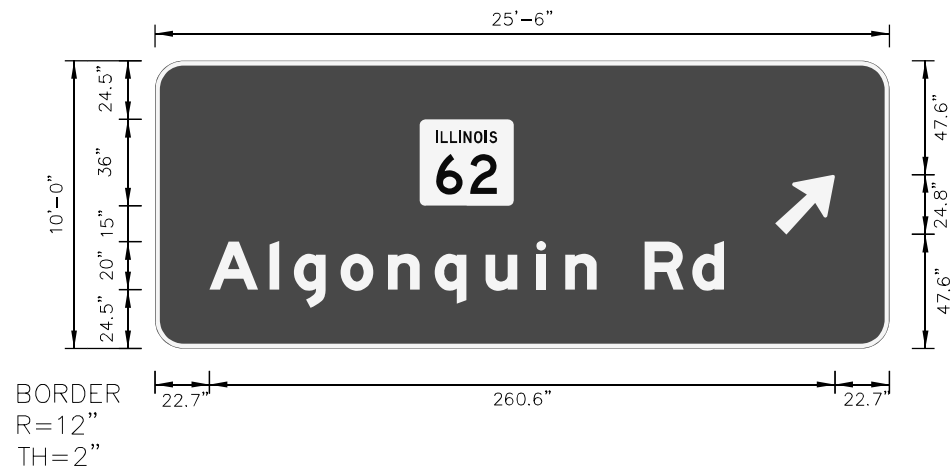
**IL ROUTE 53
SIGNING DETAIL**

SCALE: 1" = 50' SHEET 4 OF 18 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
342	2018-100-BR	COOK	1351	448
CONTRACT NO. 62N91				
ILLINOIS FED. AID PROJECT				

SIGN DETAIL

1:75



SIGN NUMBER	name
WIDTH x HGHT.	25'-6" x 10'-0"
BORDER WIDTH	2"
CORNER RADIUS	12"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective
	COLOR: Green
LEGEND/BORDER	TYPE: Reflective
	COLOR: WhiteWhite

SYMBOL	ROT	X	Y	WID	HT
M1-I100A-2-22-100.3		100.3	59.5	39.3	36
AR_Type A	315	258.5	47.6	20	31.5

Panel Style: guide_exp_advance_a.ssi
 Dimensions are in inches.tenths

Panel Style: guide_exp_advance_a.ssi
 M.U.T.C.D.: 2009 Edition

Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)

											LENGTH	SERIESIZE	
A	I	g	o	n	q	u	i	n		R	d		EM 2000
22.7	47.7	57.9	77.3	97.1	116.5	137.7	158.9	170.9	184.1	204.1	223.9		214.4 20/15

MODEL: D:\draft
 FILE NAME: C:\projects\route34\11666969\01\m8151\04\11666969.dgn
 USER: Abdul Khalique
 PROJECT: IL ROUTE 53 SIGNING DETAIL

1016 W. JACKSON BLVD.
 CHICAGO, ILLINOIS 60607
 (312) 776-5591

USER NAME = Abdul Khalique	DESIGNED - AK	REVISED -
DRAWN - MMA	CHECKED - AAS	REVISED -
PLOT SCALE = 50.0000 1 / in.	DATE -	REVISED -
PLOT DATE = 12/12/2024		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

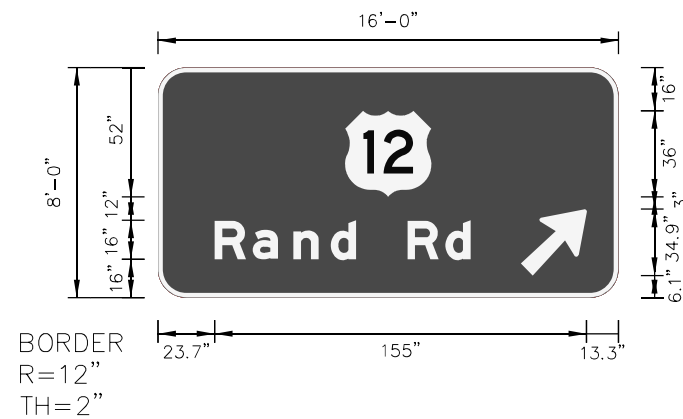
IL ROUTE 53
SIGNING DETAIL

SCALE: 1" = 50' SHEET 5 OF 18 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
342	2018-100-BR	COOK	1351	449
CONTRACT NO. 62N91				
ILLINOIS		FED. AID PROJECT		

SIGN DETAIL

1:75



BORDER
R=12"
TH=2"

Panel Style: guide_exp_overhead.ssi
M.U.T.C.D.: 2009 Edition

Panel Style: guide_exp_overhead.ssi
Dimensions are in inches.tenths

Letter locations are panel edge to lower left corner

SIGN NUMBER	name
WIDTH x HGHT.	16'-0" x 8'-0"
BORDER WIDTH	2"
CORNER RADIUS	12"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective
	COLOR: Green
LEGEND/BORDER	TYPE: Reflective
	COLOR: WhiteWhite

SYMBOL	ROT	X	Y	WID	HT
M1_4	0	50.7	44	36	36
AR_Type A	315	134.5	16	22.24	34.9

LETTER POSITIONS (X)

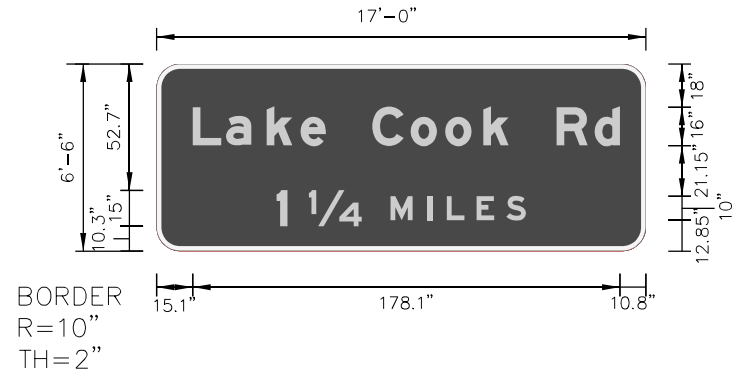
																LENGTH	SERIES SIZE	
R	a	n	d		R	d											EM 2000	
23.7	39.54	56.5	72.02	85.78	104.02	119.86											101.32	1612

MODEL: D:\p\it\... FILE: NAME: ...

USER NAME = Abdul Khalique	DESIGNED - AK	REVISED -
PLOT SCALE = 50.0000 ' / in.	DRAWN - MMA	REVISED -
PLOT DATE = 12/12/2024	CHECKED - AAS	REVISED -
	DATE -	REVISED -

SIGN DETAIL

1:75



Panel Style: guide_exp_advance_a.ssi
M.U.T.C.D.: 2009 Edition

Panel Style: guide_exp_advance_a.ssi
Dimensions are in inches, tenths

Letter locations are panel edge to lower left corner

SIGN NUMBER	name
WIDTH x HGHT.	17'-0" x 6'-6"
BORDER WIDTH	2"
CORNER RADIUS	12"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective
	COLOR: Green
LEGEND/BORDER	TYPE: Reflective
	COLOR: RGB[204,204,204] White

SYMBOL	ROT	X	Y	WID	HT

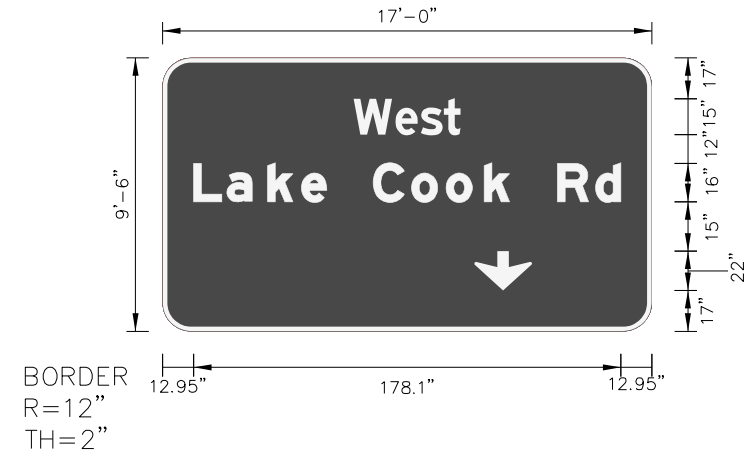
LETTER POSITIONS (X)

LENGTH SERIES/SIZE

Letter	Position (X)	Length	Series/Size
L	15.11	170.8	EM 2000
a	29.03	1612	
k	45.99		
e	60.07		
C	72.39		
o	89.99		
o	105.99		
k	120.39		
R	148.55		
d	166.79		
1	50.06	103.9	EM 2000
4	63.56	15.10	
M	97.53		
I	112.94		
L	121.04		
E	133.35		
S	145.86		

MODEL: D:\pilot\...
 FILE NAME: G:\projects\route342\122022\DOT_Stand_Associates\Drawings\CAD\Sheet\C2-3\62N91_sht-signingdetail-10-13-24.dgn

SIGN DETAIL
1:75



SIGN NUMBER	name		
WIDTH x HGHT.	17'-0" x 9'-6"		
BORDER WIDTH	2"		
CORNER RADIUS	12"		
MOUNTING	Overhead		
BACKGROUND	TYPE:	Reflective	
	COLOR:	Green	
LEGEND/BORDER	TYPE:	Reflective	
	COLOR:	WhiteWhite	

SYMBOL	ROT	X	Y	WID	HT
ARDOWN	0	130	17	32	22

Panel Style: guide_exp_overhead.ssi
 Dimensions are in inches.tenths

Panel Style: guide_exp_overhead.ssi
 M.U.T.C.D.: 2009 Edition

Letter locations are panel edge to lower left corner

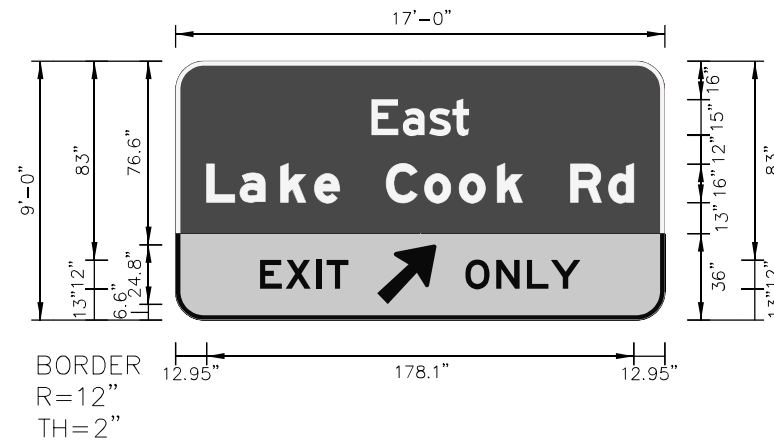
LETTER POSITIONS (X)

														LENGTH	SERIESSIZE					
W	e	s	t																E 2000	
79.73	97.13	107.63	117.38																44.55	15,12
L	a	k	e		C	o	o	k		R	d									EM 2000
12,96	26,88	43,84	57,92	70,24	87,84	103,84	118,24	134,08	146,4	164,64	180,48								170,8	1612

MODEL: D:\draft\... CHICAGO, ILLINOIS 60607 (312) 776-5591

SIGN DETAIL

1:75



BORDER
R=12"
TH=2"

Panel Style: guide_exp_overhead.ssi
M.U.T.C.D.: 2009 Edition

Panel Style: guide_exp_overhead.ssi
Dimensions are in inches, tenths

Letter locations are panel edge to lower left corner

SIGN NUMBER	name
WIDTH x HGHT.	17'-0" x 9'-0"
BORDER WIDTH	2"
CORNER RADIUS	12"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective
	COLOR: Green
LEGEND/BORDER	TYPE: Reflective
	COLOR: White/White

SYMBOL	ROT	X	Y	WID	HT
AR_Type A	315	86	6.6	22.14	35.6

LETTER POSITIONS (X)

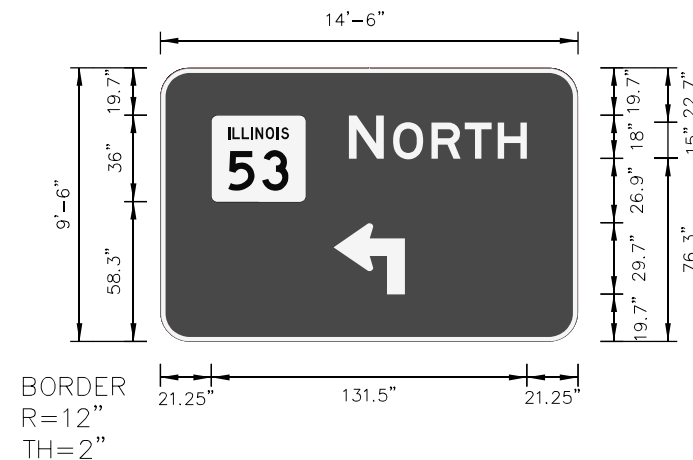
LENGTH SERIESIZE

Letter	X	Y	Length	Seriesize
E	81.68	115.43	40.65	E 2000
a	94.73	115.43	15.12	15,12
s	105.68	115.43	15.12	15,12
t	115.43	115.43	15.12	15,12
C	70.24	180.48	170.8	EM 2000
o	87.84	180.48	16.12	16,12
o	103.84	180.48	16.12	16,12
k	118.24	180.48	16.12	16,12
R	146.4	180.48	16.12	16,12
d	164.64	180.48	16.12	16,12
E	35.3	63.02	39.522	E 2000
X	45.98	63.02	12	12
I	58.82	63.02	12	12
T	63.02	63.02	12	12
O	120.82	156.46	47.787	E 2000
N	133.66	156.46	12	12
L	146.5	156.46	12	12
Y	156.46	156.46	12	12

MODEL: D:\p\c\...
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 PIN POINT PRECISION ENGINEERING

SIGN DETAIL

1:75



Panel Style: guide_exp_advance_a.ssi
 Dimensions are in inches.tenths

Panel Style: guide_exp_advance_a.ssi
 M.U.T.C.D.: 2009 Edition

Letter locations are panel edge to lower left corner

SIGN NUMBER	name
WIDTH x HGHT.	14'-6" x 9'-6"
BORDER WIDTH	2"
CORNER RADIUS	12"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective
	COLOR: Green
LEGEND/BORDER	TYPE: Reflective
	COLOR: White/White

SYMBOL	ROT	X	Y	WID	HT
M1-I100A-2-02-10D3		58.3	39.3	36	
AR90L1	0	72.2	19.7	29.7	29.7

LETTER POSITIONS (X)

LETTER POSITIONS (X)															LENGTH	SERIESSIZE			
N	O	R	T	H														E 2000	
78.5	96.9	113	126.8	140.6														74.2	18,15

MODEL: D:\work\10669698\plan\m8154\plan\m8154\plan\CADD\sheet\C2-012202.dwg
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GENERAL NOTES

DESIGN: AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaires and Traffic Signals. ("AASHTO Specifications")

CONSTRUCTION: Current (at time of letting) Illinois Department of Transportation Standard Specifications for Road and Bridge Construction, Supplemental Specifications and Special Provisions. ("Standard Specifications")

LOADING: 90 M.P.H. WIND VELOCITY

WALKWAY LOADING: Dead load plus 500 lbs. concentrated live load.

DESIGN STRESSES:
Field Units
f'c = 3,500 p.s.i.
fy = 60,000 p.s.i. (reinforcement)

WELDING: All welds to be continuous unless otherwise shown. All welding to be done in accordance with current AWS D1.1 and D1.2 Structural Welding Codes (Steel and Aluminum) and the Standard Specifications.

MATERIALS: Aluminum Alloys as shown throughout plans. All Structural Steel Pipe shall be ASTM A53 Grade B or A500 Grade B or C. If A500 pipe is substituted for A53, then the outside diameter shall be as detailed and wall thickness greater than or equal to A53. All Structural Steel Plates and Shapes shall conform to AASHTO M270 Gr. 36, Gr. 50 or Gr. 50W*. Stainless steel for shims, sleeves and handhole covers shall be ASTM A240, Type 302 or 304, or another alloy suitable for exterior exposure and acceptable to the Engineer.

The steel pipe and stiffening ribs at the base plate for the column shall have a minimum longitudinal Charpy V-Notch (CVN) energy of 15 lb.-ft. at 40° F. (Zone 2) before galvanizing.

FASTENERS FOR ALUMINUM TRUSSES: All bolts noted as "high strength" must satisfy the requirements of AASHTO M164 (ASTM A325), or approved alternate, and must have matching lock nuts. Threaded studs for splices (if Members interfere) must satisfy the requirements of ASTM A449, ASTM A193, Grade B7, or approved alternate, and must have matching lock nuts. Bolts and lock nuts not required to be high strength must satisfy the requirements of ASTM A307. All bolts and lock nuts must be hot dip galvanized per AASHTO M232. The lock nuts must have nylon or steel inserts. A stainless steel flat washer conforming to ASTM A240 Type 302 or 304, is required under both head and nut or under both nuts where threaded studs are used. High strength bolt installation shall conform to Article 505.04 (f) (2)d of the IDOT Standard Specifications for Road and Bridge Construction. Rotational capacity ("ROCAP") testing of bolts will not be required.

U-BOLTS AND EYEBOLTS: U-Bolts and Eyebolts must be produced from ASTM A276 Type 304, 304L, 316 or 316L, Condition A, cold finished stainless steel, or an equivalent material acceptable to the Engineer. All nuts for U-Bolts and Eyebolts must be lock nuts equivalent to ASTM A307 with nylon or steel inserts and hot dip galvanized per AASHTO M232. A stainless steel flat washer conforming to ASTM A240, Type 302 or 304, is required under each U-Bolt and Eyebolt lock nut.

GALVANIZING: All Steel Grating, Plates, Shapes and Pipe shall be Hot Dip Galvanized after fabrication in accordance with AASHTO M111. Painting is not permitted.

ANCHOR RODS: Shall conform to ASTM F1554 Gr. 105.

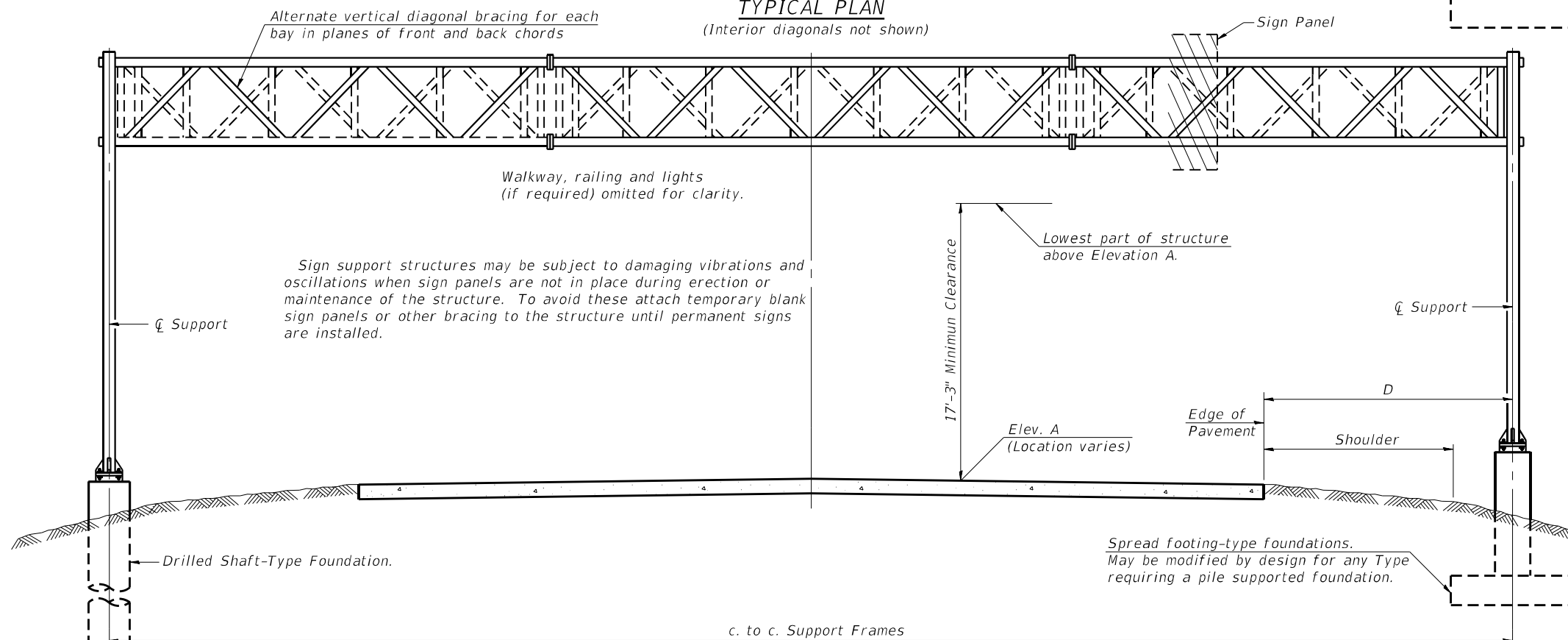
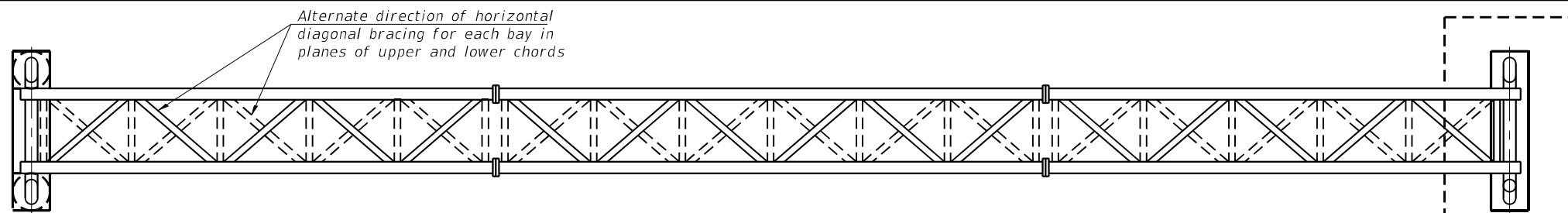
CONCRETE SURFACES: All concrete surfaces above an elevation 6" below the lowest final ground line at each foundation shall be cleaned and coated with Concrete Sealer in accordance with the Standard Specifications.

REINFORCEMENT BARS: Reinforcement Bars designated (E) shall be epoxy coated in accordance with the Standard Specifications.

FOUNDATIONS: The contract unit price for Concrete Foundations and Drilled Shaft Concrete Foundations shall include reinforcement bars complete in place.

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
OVERHEAD SIGN STRUCTURE SPAN TYPE I-A	FOOT	220
OVERHEAD SIGN STRUCTURE SPAN TYPE II-A	FOOT	116
OVERHEAD SIGN STRUCTURE SPAN TYPE III-A	FOOT	296
DRILLED SHAFT CONCRETE FOUNDATIONS	Cu. Yds.	197



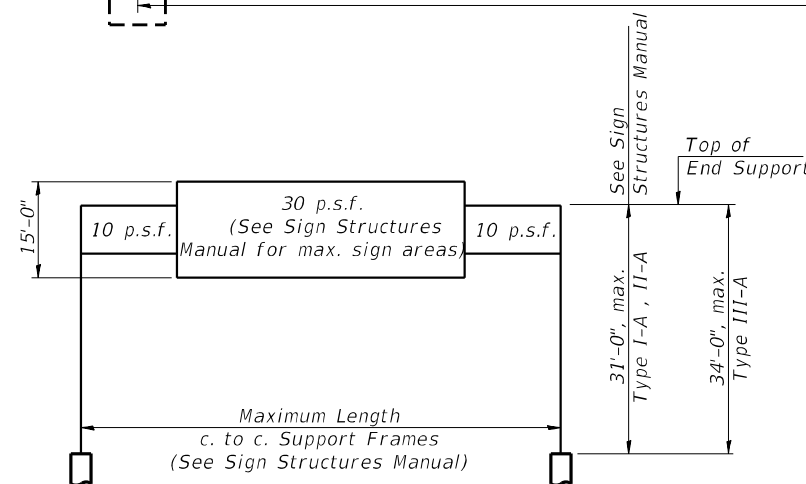
TYPICAL ELEVATION
(Looking at Face of Signs**)

Elev. A = Elevation at point of minimum clearance to sign, walkway support or truss.

Structure Number	Station	Design Truss Type	c. to c. Supports	Elev. A	Dim. D	Height of Tallest Sign	Total Sign Area
1S0161290R000.0-000	1130+30.00	III-A	82'	744.1	31'	14'-6"	669 SF
1S016S053L000.0-000	1135+55.00	I-A	82'	742.3	23'	10'-0"	401 SF
1S016S053R000.0-007	1159+25.00	I-A	54'	719.9	22'	13'-0"	337 SF
1S016S053L000.0-006	1397+10.00	I-A	84'	721.9	20'	10'-0"	266 SF
1S016S053L000.0-007	1433+18.00	II-A	116'	724.7	32'	8'-0"	249 SF
1S016S053L000.0-008	1488+07.00	III-A	104'	734.5	32'	9'-0"	304 SF
1S016S053L000.0-009	1498+06.00	III-A	110'	738.8	36'	9'-6"	400 SF

**Looking upstation for structures with signs both sides.

* If M270 Gr. 50W (M222) steel is proposed, chemistry for plate to be used shall first be approved by the Engineer as suitable for galvanizing and welding.



DESIGN WIND LOADING DIAGRAM

Parameters shown are basis for I.D.O.T. Standards and Sign Manual Tables. Installations not within dimensional limits shown require special analysis for all components.

05-A-1 2-17-2017



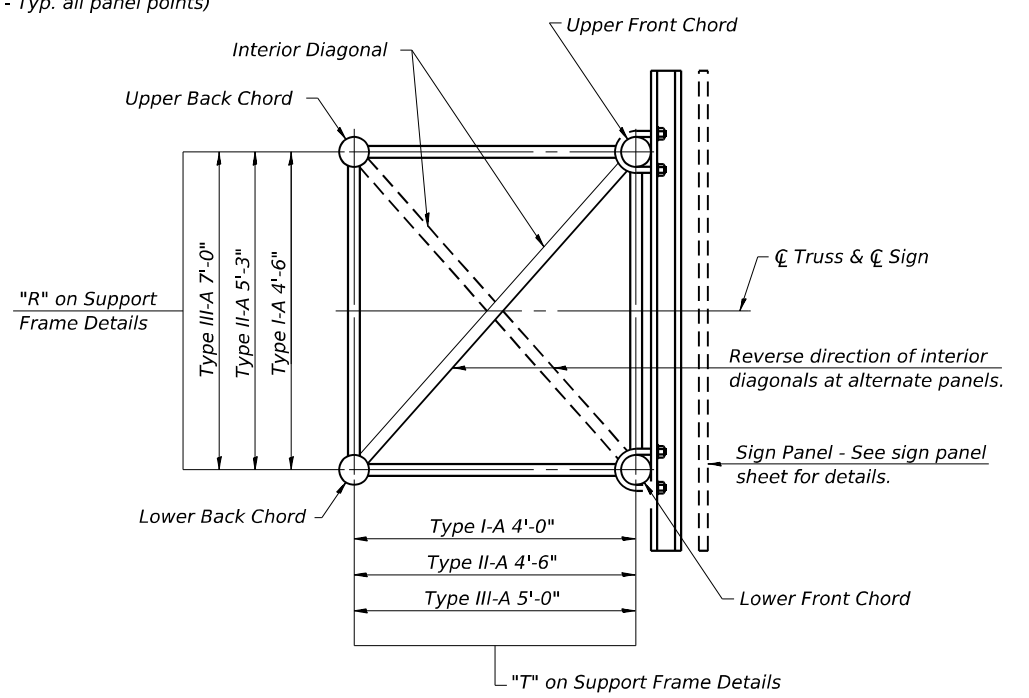
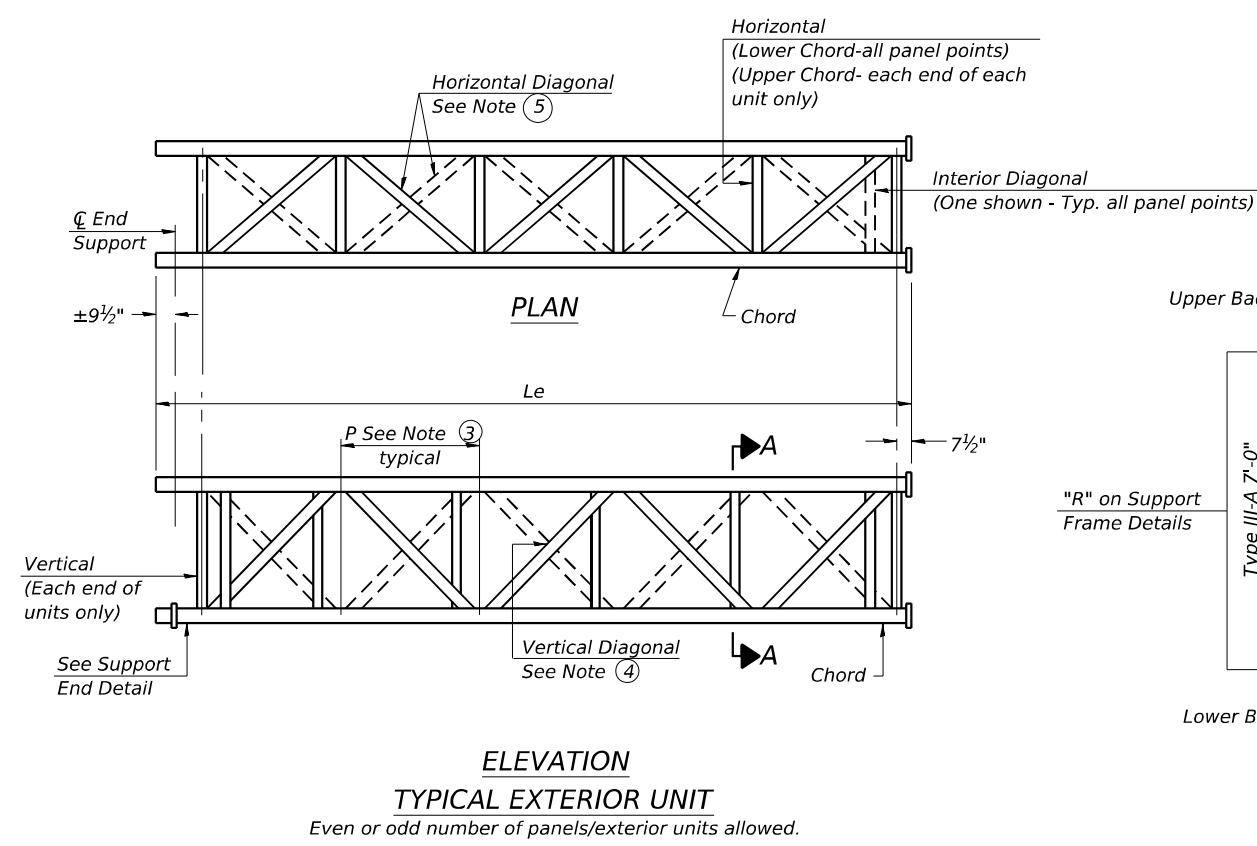
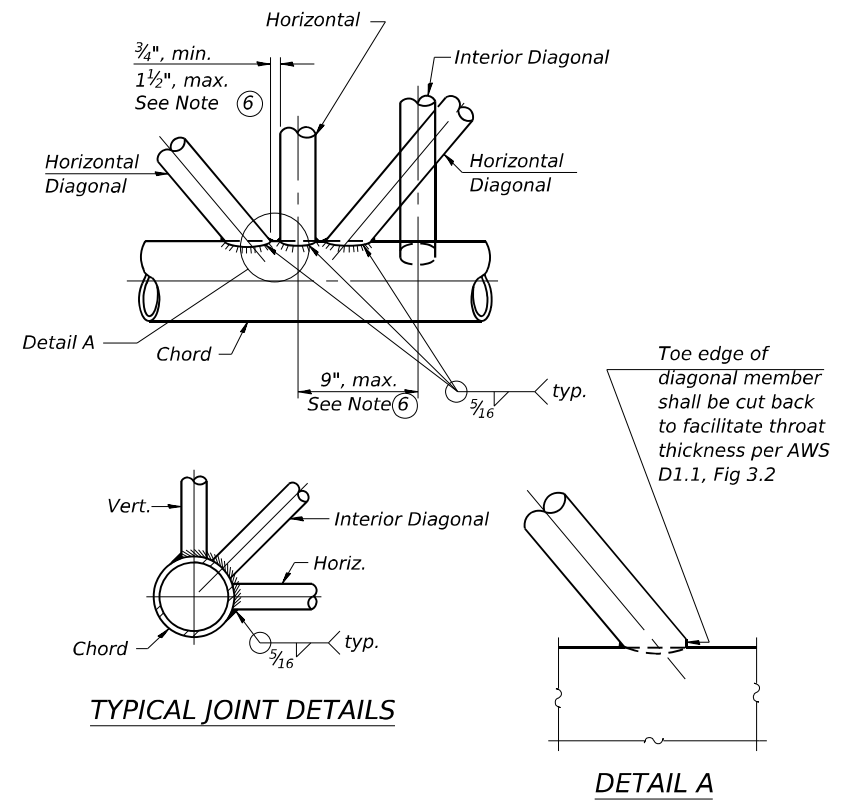
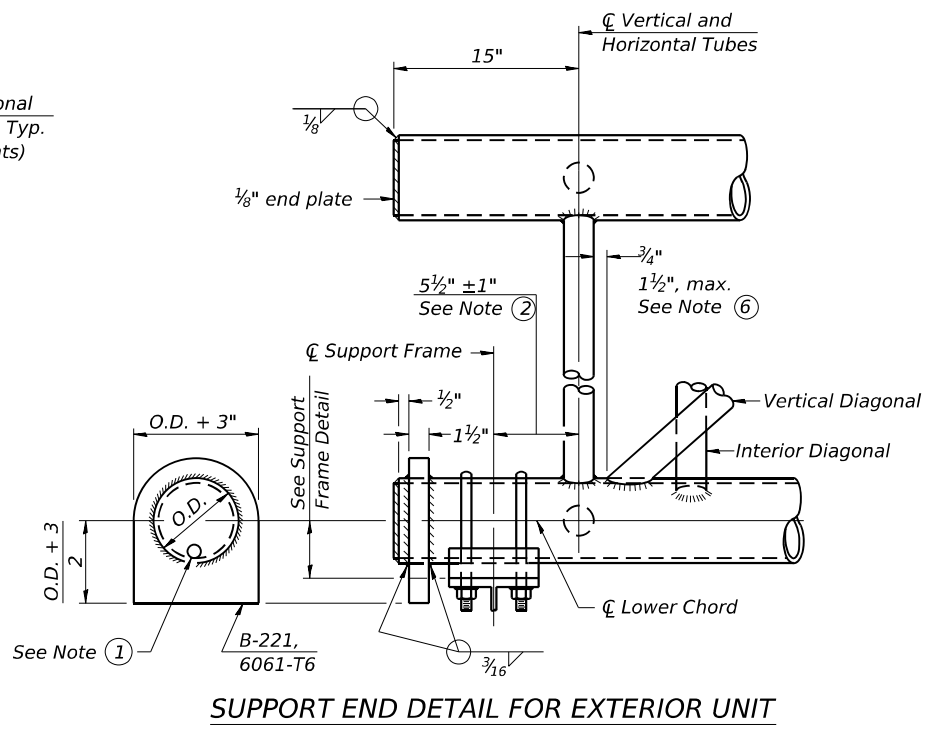
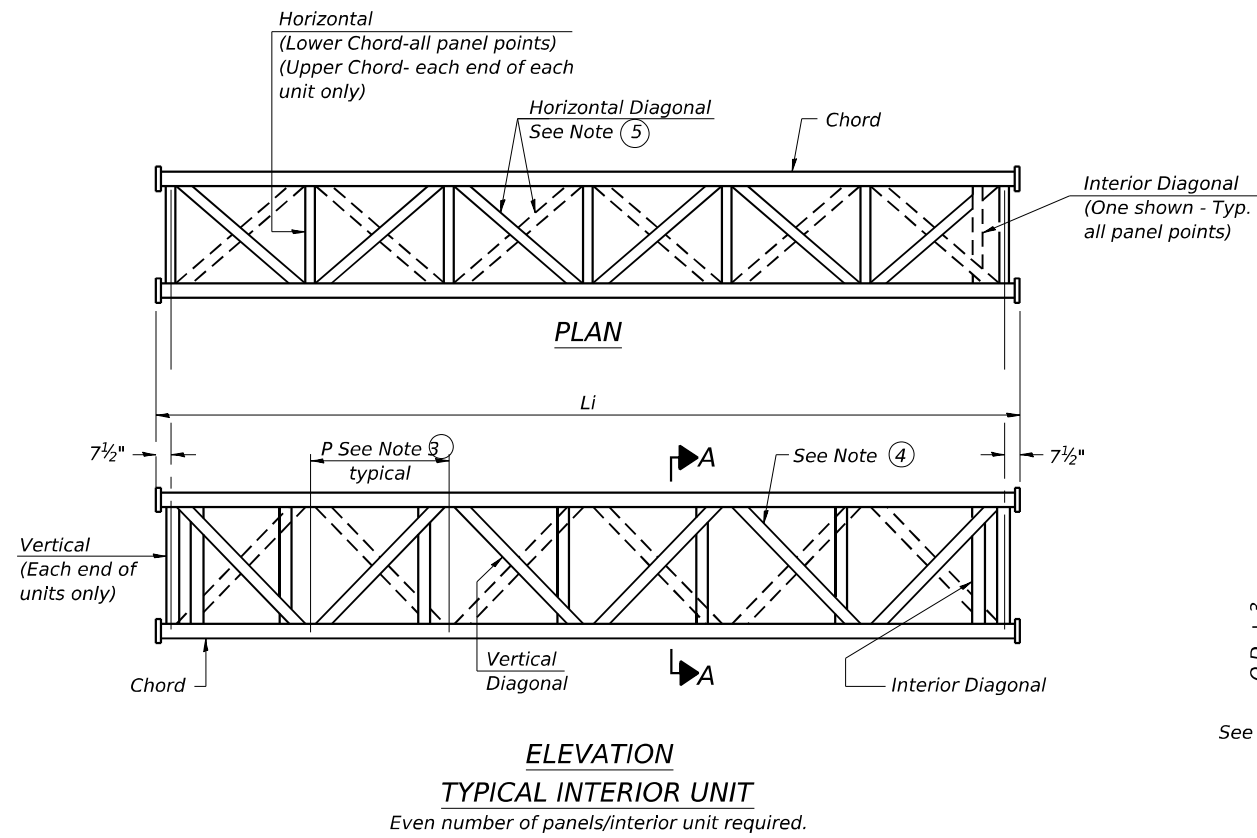
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PLOT SCALE = 0.1667' / in.	DRAWN - DJW	REVISED -
PLOT DATE = 12/13/2024	CHECKED - MAG	REVISED -
	DATE - 12/13/24	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

OVERHEAD SIGN STRUCTURES - GENERAL PLAN &
ELEVATION - ALUMINUM TRUSS & STEEL SUPPORTS

SCALE: SHEET 1 OF 25 SHEETS STA. TO STA.

F.A.P. RTE. 342	SECTION 2018-100-BR	COUNTY COOK	TOTAL SHEETS 1351	SHEET NO. 463
ILLINOIS			CONTRACT NO. 62N91	
FED. AID PROJECT				



- ① Contractor may alternatively use standard aluminum drive-fit cap to close end. 1/2" Ø drain hole in end plate/drive-fit cap. (Typ. at ends of all chords)
- ② 5 1/2" end dimension may vary by ±1" to provide uniform panel spacing (P).
- ③ Panel spacing (P) shall be uniform for entire truss and between 4'-0" and 5'-0" for Type I-A or 4'-0" and 5'-6" for Types II-A and III-A.
- ④ Vertical Diagonals in front and back face shall alternate.
- ⑤ Hidden lines show wind bracing alternates direction between planes of top and bottom chords.
- ⑥ All diagonals shall be detailed for minimum offset from the panel point based on the following: Offset shall be such as to provide a 3/4" minimum to 1 1/2" maximum clearance between any diagonal and any horizontal or vertical member, and to provide clearance for U-bolt connections of signs or walkway brackets.

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OS-A-2
1170 SOUTH HOUBOLT ROAD
JOLIET, ILLINOIS 60431
STRAND ASSOCIATES
(815) 744-4200

USER NAME = StevenB	DESIGNED - TCH	REVISED -
PLOT SCALE = 0.1667' / in.	DRAWN - DJW	REVISED -
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

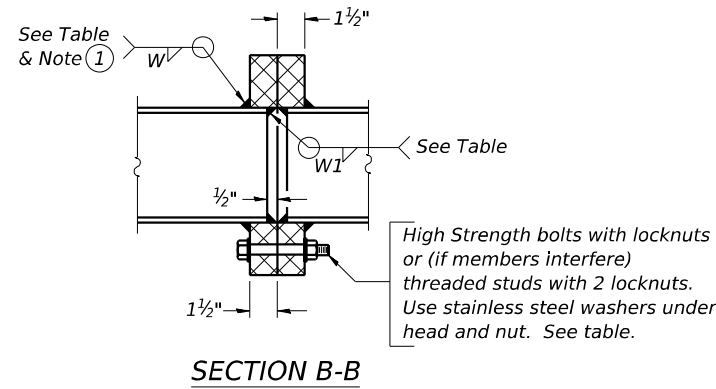
**OVERHEAD SIGN STRUCTURES - ALUMINUM TRUSS
DETAILS FOR TRUSS TYPES I-A, II-A AND III-A**

F.A.P. RTE. 342	SECTION 2018-100-BR	COUNTY COOK	TOTAL SHEETS 1351	SHEET NO. 464
CONTRACT NO. 62N91				
ILLINOIS FED. AID PROJECT				

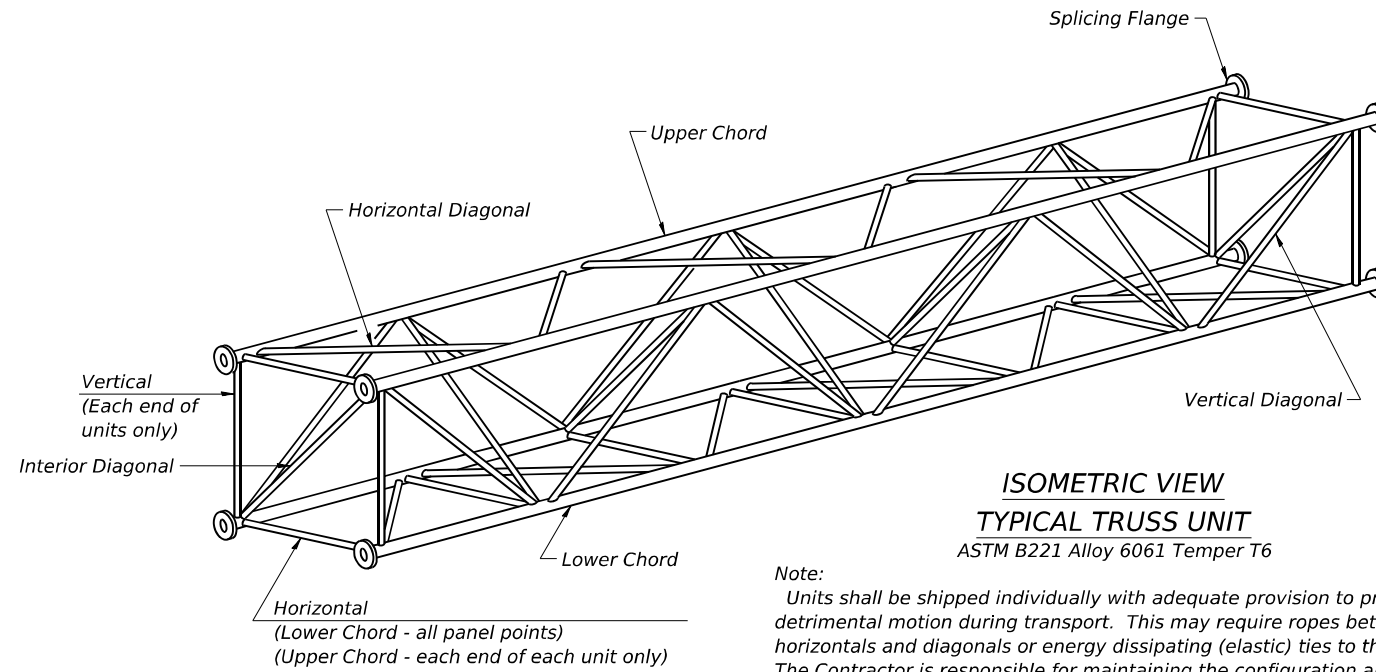
SCALE: SHEET 2 OF 25 SHEETS STA. TO STA.

TRUSS UNIT TABLE

Structure Number	Station	Design Truss Type	Exterior Units (2)			Interior Unit			Upper & Lower Chord		Verticals; Horizontals; Vertical; Horizontal, and Interior Diagonals		Camber at Midspan	Splicing Flange						
			No. Panels per Unit	Unit Lgth. (Le)	Panel Lgth. (P)	No. Req'd.	No. Panels per Unit	Unit Lgth. (Li)	Panel Lgth. (P)	O.D.	Wall	O.D.		Wall	Bolts		Weld Sizes		A	B
															No./Splice	Dia.	W	W1		
1S016I290R000.0-000	1130+30.00	III-A	5	26'-5 1/2"	4'-11"	1	6	30'-9"	4'-11"	7"	5/16"	3 1/4"	5/16"	1"	6	1"	7/16"	5/16"	11 1/2"	15"
1S016S053L000.0-000	1135+55.00	I-A	5	26'-5 1/2"	4'-11"	1	6	30'-9"	4'-11"	5"	5/16"	2 1/2"	5/16"	2 5/16"	6	7/8"	5/16"	1/4"	8 3/4"	11 3/4"
1S016S053R000.0-007	1159+25.00	I-A	6	27'-10 1/2"	4'-3"	0	-	-	-	5"	5/16"	2 1/2"	5/16"	5/8"	6	7/8"	5/16"	1/4"	8 3/4"	11 3/4"
1S016S053L000.0-006	1397+10.00	I-A	6	28'-9"	4'-5 3/4"	1	6	28'-1 1/2"	4'-5 3/4"	5"	5/16"	2 1/2"	5/16"	2 7/16"	6	7/8"	5/16"	1/4"	8 3/4"	11 3/4"
1S016S053L000.0-007	1433+18.00	II-A	8	39'-4 1/2"	4'-8 1/4"	1	8	38'-9"	4'-8 1/4"	7"	5/16"	3"	5/16"	4"	6	1"	3/8"	1/4"	11 1/2"	15"
1S016S053L000.0-008	1488+07.00	III-A	7	37'-0 1/4"	5'-0 1/4"	1	6	31'-4 1/2"	5'-0 1/4"	7"	5/16"	3 1/4"	5/16"	2 1/2"	6	1"	7/16"	5/16"	11 1/2"	15"
1S016S053L000.0-009	1498+06.00	III-A	7	39'-2 1/2"	5'-4"	1	6	33'-3"	5'-4"	7"	5/16"	3 1/4"	5/16"	2 3/4"	6	1"	7/16"	5/16"	11 1/2"	15"

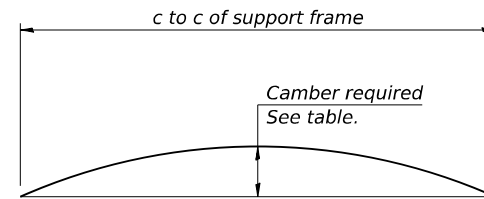


① Splicing Flanges shall be attached to each truss unit with the truss shop assembled to camber shown. Truss units shall be in proper alignment and flange surfaces shall be shop bolted into full contact before welding. Sufficient external welds or tacks shall be made to secure flanges until remaining welds are made after disassembly. Adjacent flanges shall be "match marked" to insure proper field assembly.



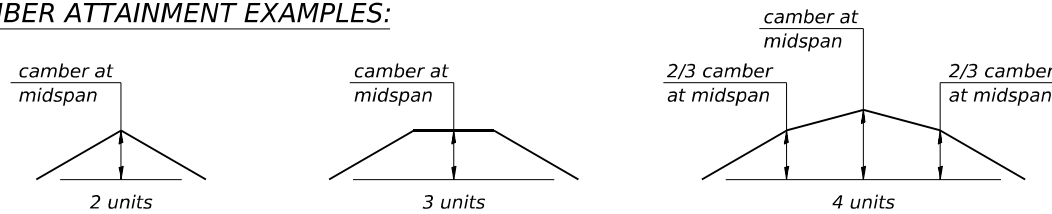
**ISOMETRIC VIEW
TYPICAL TRUSS UNIT**
ASTM B221 Alloy 6061 Temper T6

Note:
Units shall be shipped individually with adequate provision to prevent detrimental motion during transport. This may require ropes between horizontals and diagonals or energy dissipating (elastic) ties to the vehicle. The Contractor is responsible for maintaining the configuration and protection of the units.

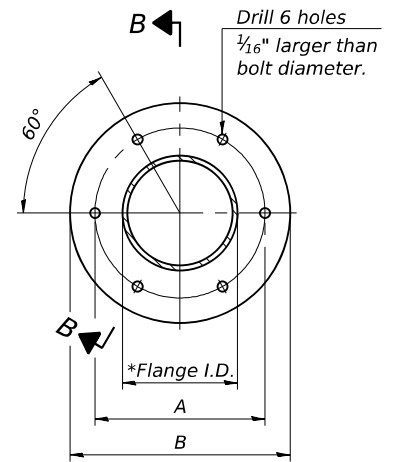


CAMBER DIAGRAM
Camber curve shown is theoretical. Actual camber attained by slope changes at splices between units.

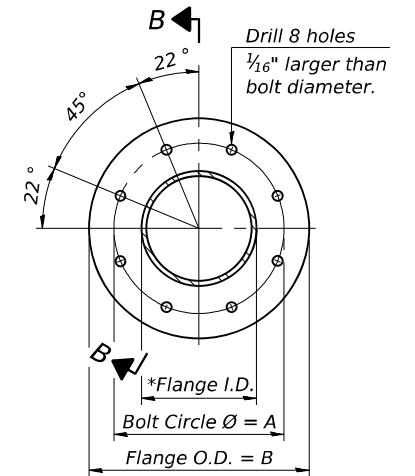
CAMBER ATTAINMENT EXAMPLES:



Camber shown is for fabrication only, measured with truss fully supported. (No-load condition)



TRUSS TYPES I-A, II-A, & III-A



**TRUSS TYPES II-A & III-A
SPlicing FLANGES**

ASTM B221, Alloy 6061-T6
or ASTM B209, Alloy 6061-T651
*To fit O.D. of Chord with maximum gap of 1/16".

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OS4-A-2

5-15-2023



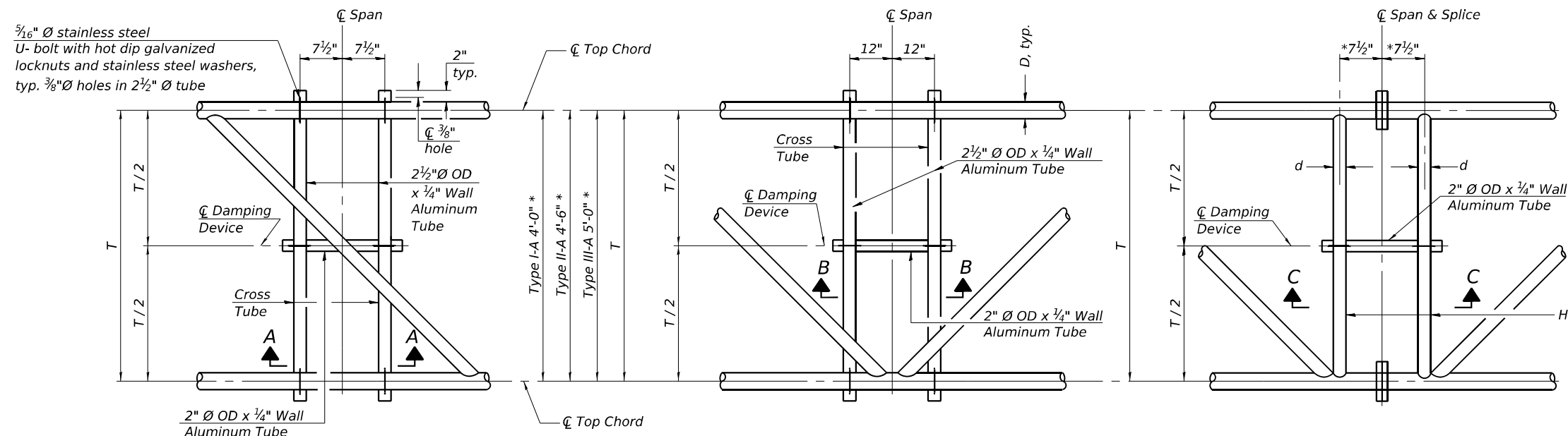
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	DATE - 12/13/24	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**OVERHEAD SIGN STRUCTURES - ALUMINUM TRUSS DETAILS
FOR TRUSS TYPES I-A, II-A AND III-A**

SCALE: SHEET 3 OF 25 SHEETS STA. TO STA.

F.A.P. RTE. 342	SECTION 2018-100-BR	COUNTY COOK	TOTAL SHEETS 1351	SHEET NO. 465
			CONTRACT NO. 62N91	
ILLINOIS FED. AID PROJECT				



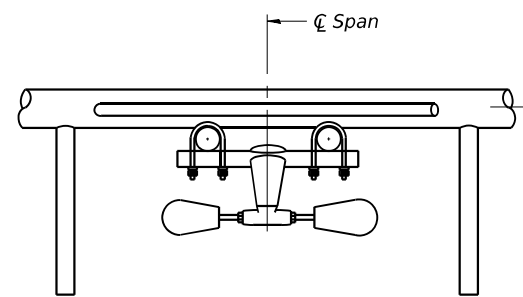
PLAN DETAIL "A"
 ☐ Span between Panel Points

PLAN DETAIL "B"
 ☐ Span at Panel Point

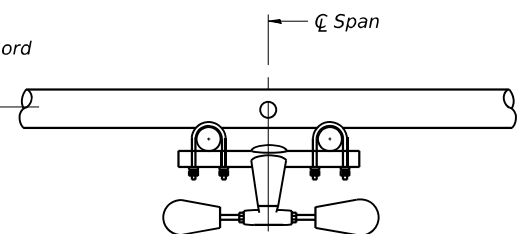
PLAN DETAIL "C"
 ☐ Span at ☐ Chord Splice

* Center of horizontal to center of splice dimension may vary. Verify before drilling holes in mounting tube.

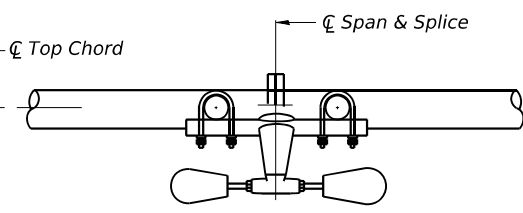
- NOTES**
- Damper: One damper per truss. (31 lbs. minimum Stockbridge-Type Aluminum - 29" minimum between ends of weights) Cost included in Overhead Sign Structure...
 - Materials: Aluminum tubes shall be ASTM B221 alloy 6061 temper T6. Cost included in Overhead Sign Structure...



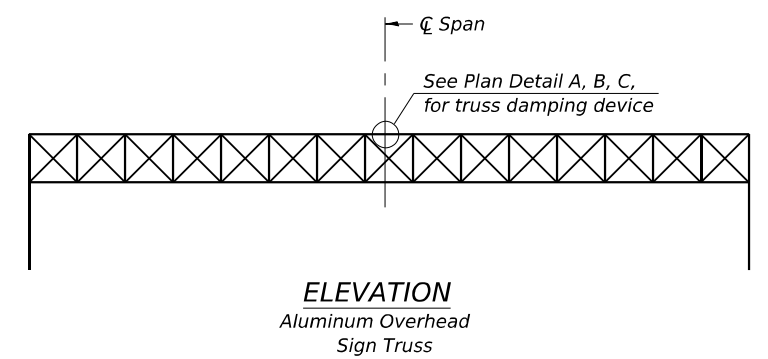
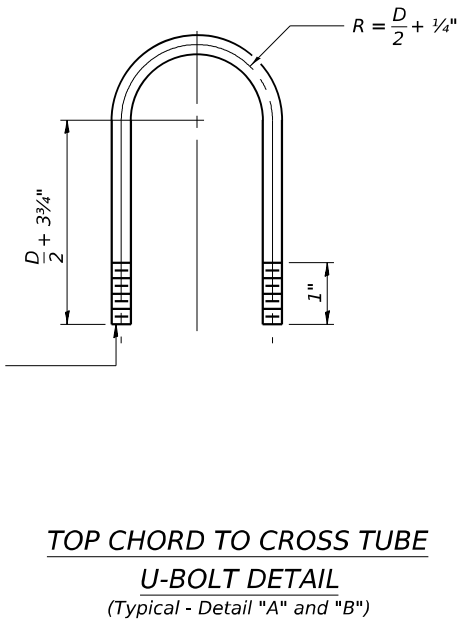
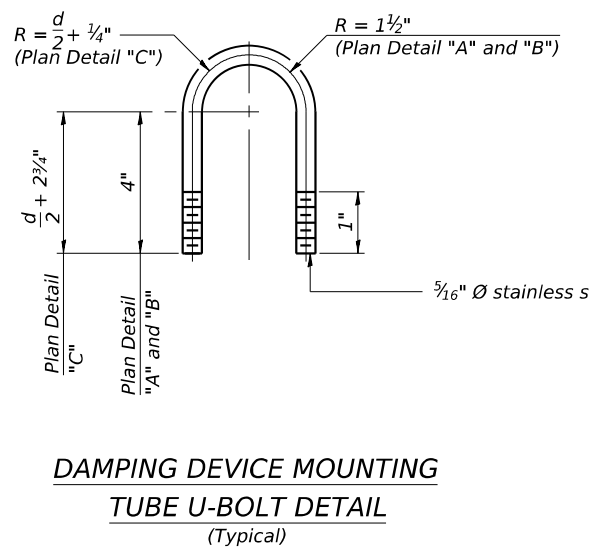
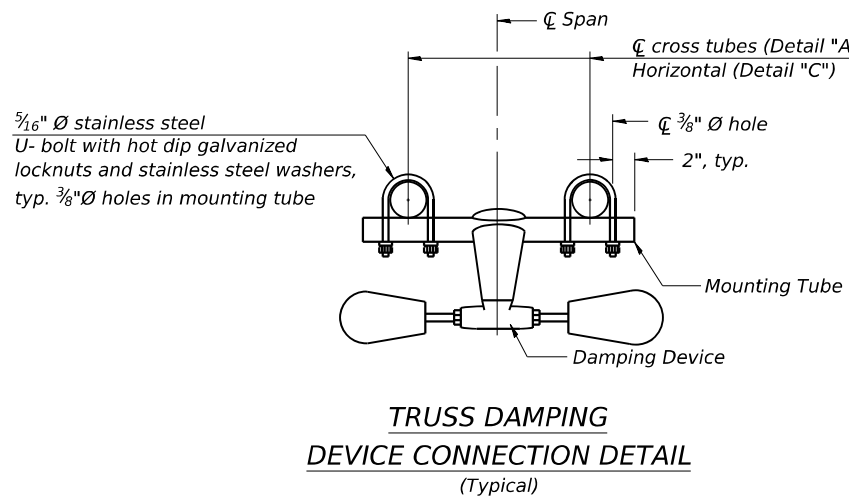
SECTION A-A



SECTION B-B



SECTION C-C



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OS-A-D
 1170 SOUTH HOUBOLT ROAD
 JOLIET, ILLINOIS 60431
STRAND ASSOCIATES
 (815) 744-4200

5-15-2023

USER NAME = StevenB	DESIGNED - TCH	REVISED -
	DRAWN - DJW	REVISED -
PLOT SCALE = 0.1667' / in.	CHECKED - MAG	REVISED -
PLOT DATE = 12/13/2024	DATE - 12/13/24	REVISED -

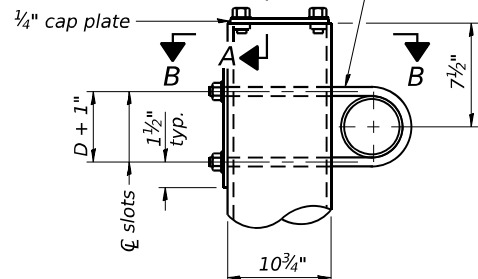
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

OVERHEAD SIGN STRUCTURE
DAMPING DEVICE

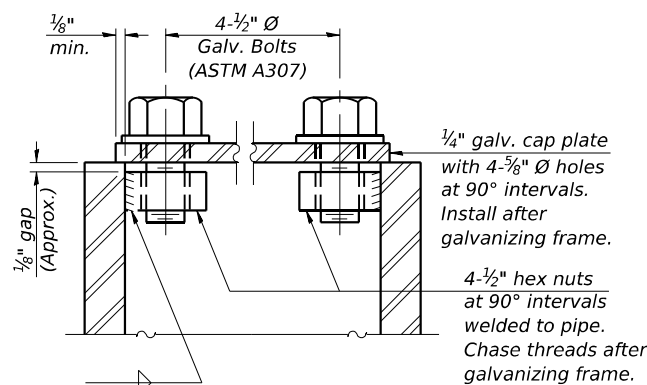
SCALE: SHEET 4 OF 25 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
342	2018-100-BR	COOK	1351	466
CONTRACT NO. 62N91				
ILLINOIS FED. AID PROJECT				

3/4" Ø stainless steel U-bolt.
Provide two washers and two hexagon locknuts. (4)
1 3/16" x 2" slots on 10" Ø pipe.
(4 slots required per pipe)

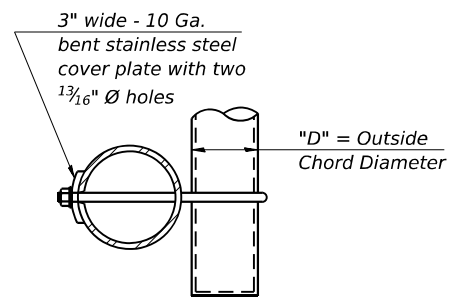


DETAIL A

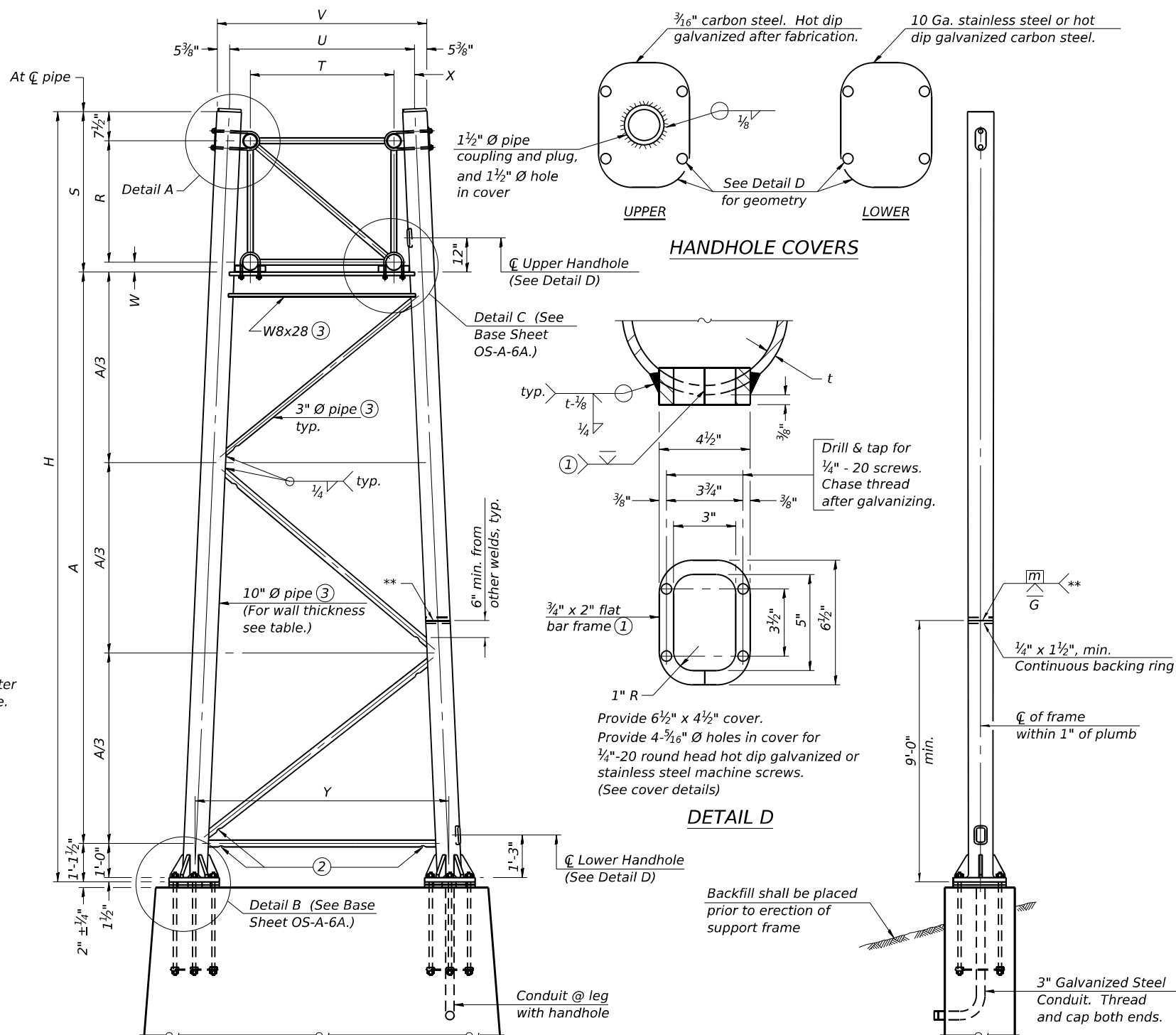


SECTION A-A

As an alternate to bolts, may use galvanized drive-fit caps installed after galvanizing frame.



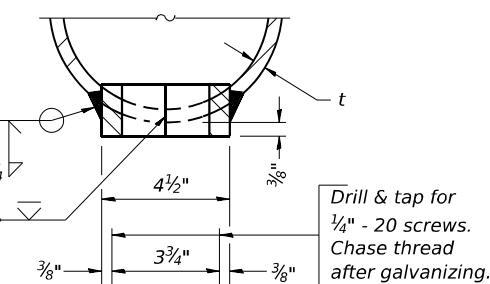
SECTION B-B



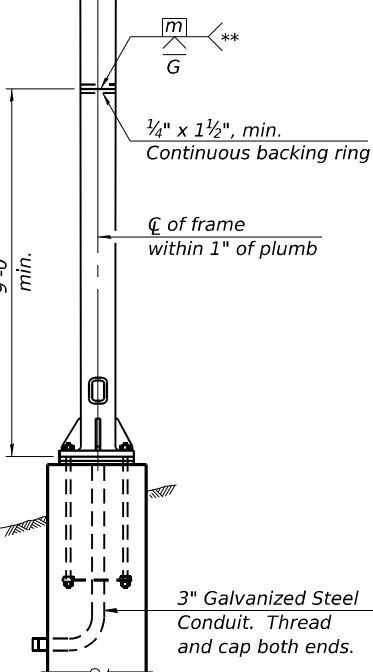
For Foundation Details, see base sheet OS-F3 (Spread Footing) or OS4-F3 (Drilled Shaft).

SIDE ELEVATION

HANDHOLE COVERS



DETAIL D



END ELEVATION

Support Design Loads: See Base Sheet OS-A-1 for design and loading criteria.

Load combinations checked include deadload plus:
a) 100% wind normal to sign, 20% parallel to sign
b) 60% wind normal to sign, 30% parallel to sign

- ① In lieu of fabricated handhole frame as shown, may cut from 2" plate (rolling direction vertical). All cut faces to be ground to ANSI Roughness of 500µ in or less.
- ② Galvanizing vent holes of adequate size shall be provided on underside at each end of bracing pipes. Alternately, holes may be provided in wall of pipe column. All vent holes shall be drilled and de-burred, typ.
- ③ Steel pipe, plate, carbon steel handhole covers and rolled sections shall be hot dip galvanized after fabrication. Painting is not permitted. See Base Sheet OS-A-1.
- ④ See General Notes for fasteners.
- ⑤ Dimensions shown are based on selection criteria in the Sign Structures Manual. Nonstandard applications must have dimensions verified or amended as appropriate.
- ⑥ "H" based on 15'-0" or actual sign height, whichever is greater.

Truss Type	Dimensions							
	R	S	T	U	V	W	X	Y
I-A	4'-6"	5'-5 1/2"	4'-0"	5'-6"	6'-4 3/4"	4"	9"	8'-3"
II-A ⑤	5'-3"	6'-3 3/4"	4'-6"	6'-1"	6'-11 3/4"	4 3/4"	9 1/2"	8'-3"

10" Ø PIPE TRUSS SUPPORT FRAME

** One butt welded joint is allowed only on one post per support frame. If used, weld procedure must be pre-approved by Engineer and joint shall receive 100% RT or UT (tension criteria) at Contractor's expense.

Structure Number	Station	Support		Truss Type	Pipe Wall Thickness	H ⑥	A
		Left	Right				
1S016S053L000.0-000	1135+55.00	X		I-A	0.279	25'-11 1/16"	19'-4 1/16"
1S016S053L000.0-000	1135+55.00		X	I-A	0.279	30'-3 3/4"	23'-8 3/4"
1S016S053R000.0-007	1159+25.00	X		I-A	0.279	25'-8 7/8"	19'-1 7/8"
1S016S053R000.0-007	1159+25.00		X	I-A	0.279	30'-10 11/16"	24'-3 11/16"
1S016S053L000.0-006	1397+10.00	X		I-A	0.279	26'-0"	19'-5"
1S016S053L000.0-006	1397+10.00		X	I-A	0.279	30'-7 5/16"	24'-0 5/16"
1S016S053L000.0-007	1433+18.00	X	X	II-A	0.365	30'-9 3/4"	23'-5"

OS-A-6

5-15-2023



USER NAME = StevenB	DESIGNED - TCH	REVISED -
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	DATE - 12/13/24	REVISED -

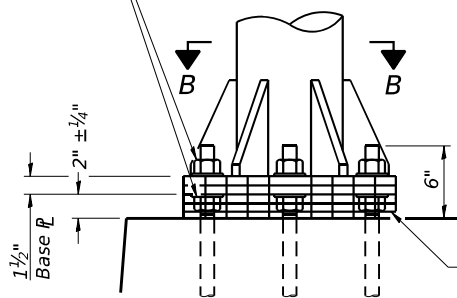
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

OVERHEAD SIGN STRUCTURES
SUPPORT FRAME FOR ALUMINUM TRUSS

SCALE: SHEET 5 OF 25 SHEETS STA. TO STA.

F.A.P. RTE. 342	SECTION 2018-100-BR	COUNTY COOK	TOTAL SHEETS 1351	SHEET NO. 467
CONTRACT NO. 62N91				
ILLINOIS FED. AID PROJECT				

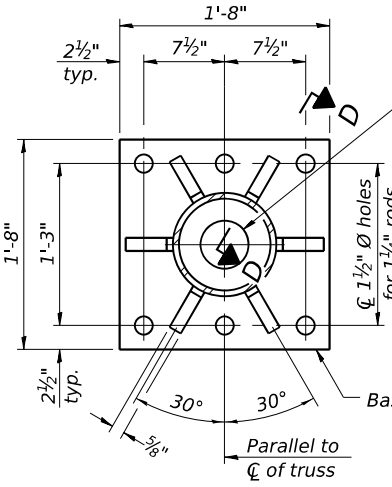
Hexagon locknut and washer (top), leveling nut and washer (bottom). Galvanize per AASHTO M232. Nuts shall each be tightened against base plate with 200 lb.-ft. minimum torque.



DETAIL B

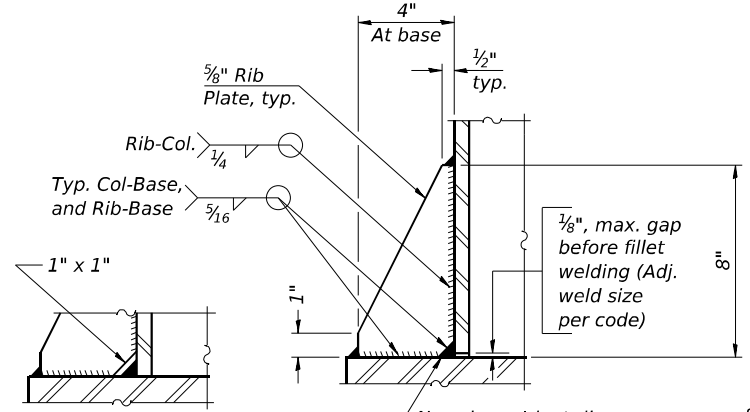
Ribs shall be cut to fit slope of pipe.

Stainless Steel Standard Grade Wire Cloth, 3" wide, 1/4" maximum opening with a minimum wire diameter of AWG. No. 16 with a minimum 2" lap. Secure to base plate after erection with 3/4" stainless steel banding.



SECTION B-B

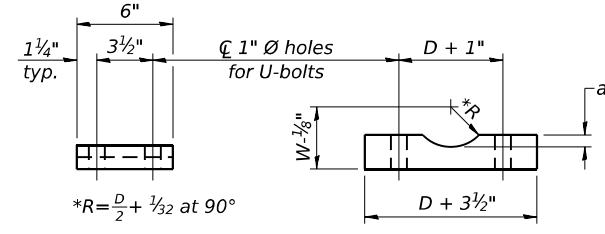
Base plate 1 1/2" x 1'-8" x 1'-8"



SECTION D-D

** Alternate detail if welding col. to base plate first, then snip inside corner of ribs. Terminate weld on rib 1/4" from snip.

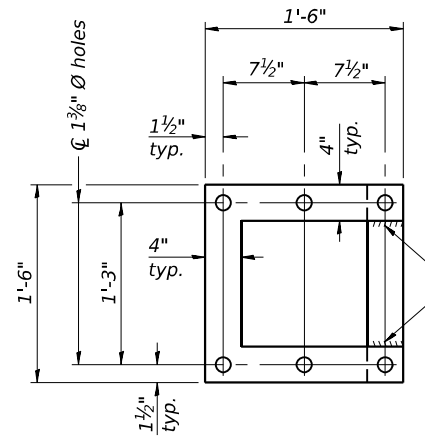
No snip req'd. at rib inside corner if placed before col. to base plate welding.**



SADDLE SHIM DETAIL

ASTM B26 Alloy 356-F or ASTM B209 Alloy 6061-T651 (4 required per sign truss)

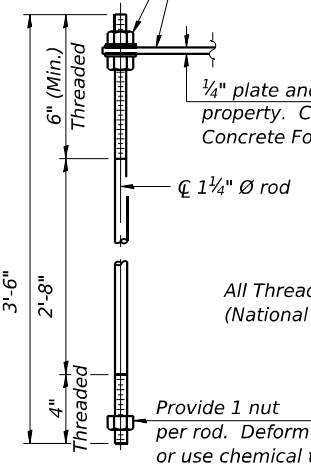
Truss Chord Nominal Dia.	a
5"	3/4"
5 1/2"	13/16"
6"	7/8"
6 1/2"	15/16"
7"	1"



POSITIONING PLATE(S)

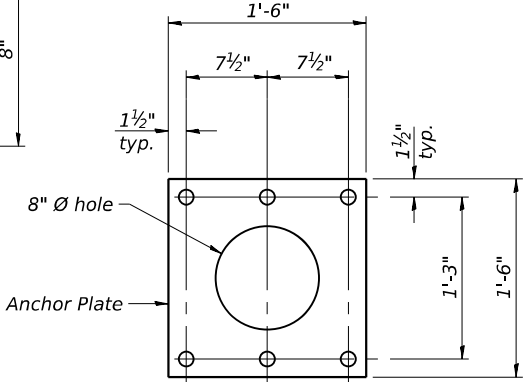
Optionally may use four (4) separate bars. Weld to maintain perpendicularity.

At each location, provide 1/4" thick positioning plate(s) and six (6) additional nuts to be used with leveling nuts to maintain anchor bolts position during concrete placement.



ANCHOR ROD DETAIL

Drilled Shaft Foundation



ANCHOR ROD DETAIL

Spread Footing Foundation

Provide 2 uncoated nuts per rod. Nuts shall be "snug tight" against anchor plate.

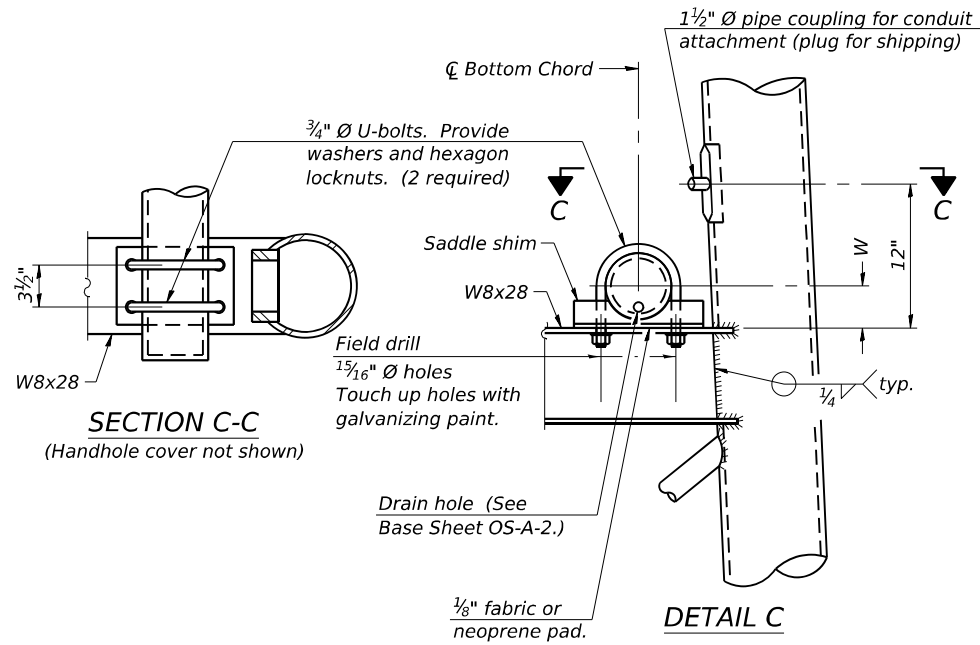
All Thread = NC (National Coarse)

Provide 1 nut per rod. Deform thread or use chemical thread lock to secure.

All Thread = NC (National Coarse)

Anchor rods shall conform to ASTM F1554 Grade 105. Galvanize upper 12" minimum per AASHTO M232. No welding shall be permitted on rods.

10" Ø PIPE SUPPORT FRAME DETAILS



SECTION C-C

(Handhole cover not shown)

DETAIL C

OS-A-6A

5-15-2023



USER NAME = StevenB	DESIGNED - TCH	REVISED -
PLOT SCALE = 0.1667' / in.	DRAWN - DJW	REVISED -
PLOT DATE = 12/13/2024	CHECKED - MAG	REVISED -
	DATE - 12/13/24	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

OVERHEAD SIGN STRUCTURES
SUPPORT FRAME DETAILS - ALUMINUM TRUSS

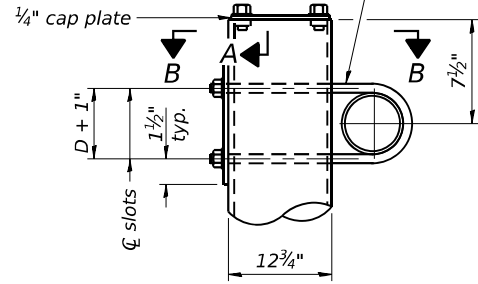
SCALE: SHEET 6 OF 25 SHEETS STA. TO STA.

F.A.P. RTE. 342	SECTION 2018-100-BR	COUNTY COOK	TOTAL SHEETS 1351	SHEET NO. 468
			CONTRACT NO. 62N91	

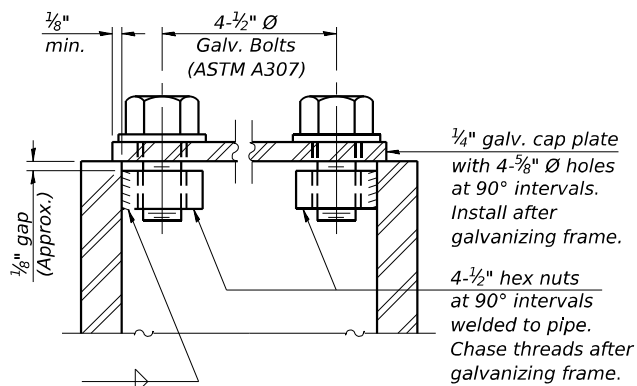
ILLINOIS FED. AID PROJECT

MODEL: D:\p\h\1130\Drawings\CAD\Micro-SSA\CAD_Sheets\C2-0162\N91-1-rib-sign structure details-SA6.dgn

3/4" Ø stainless steel U-bolt.
Provide two washers and two hexagon locknuts. (4)
1 3/16" x 2" slots on 12" Ø pipe.
(4 slots required per pipe)

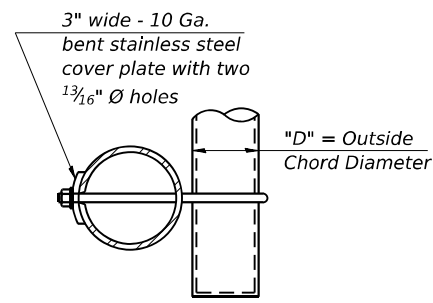


DETAIL A

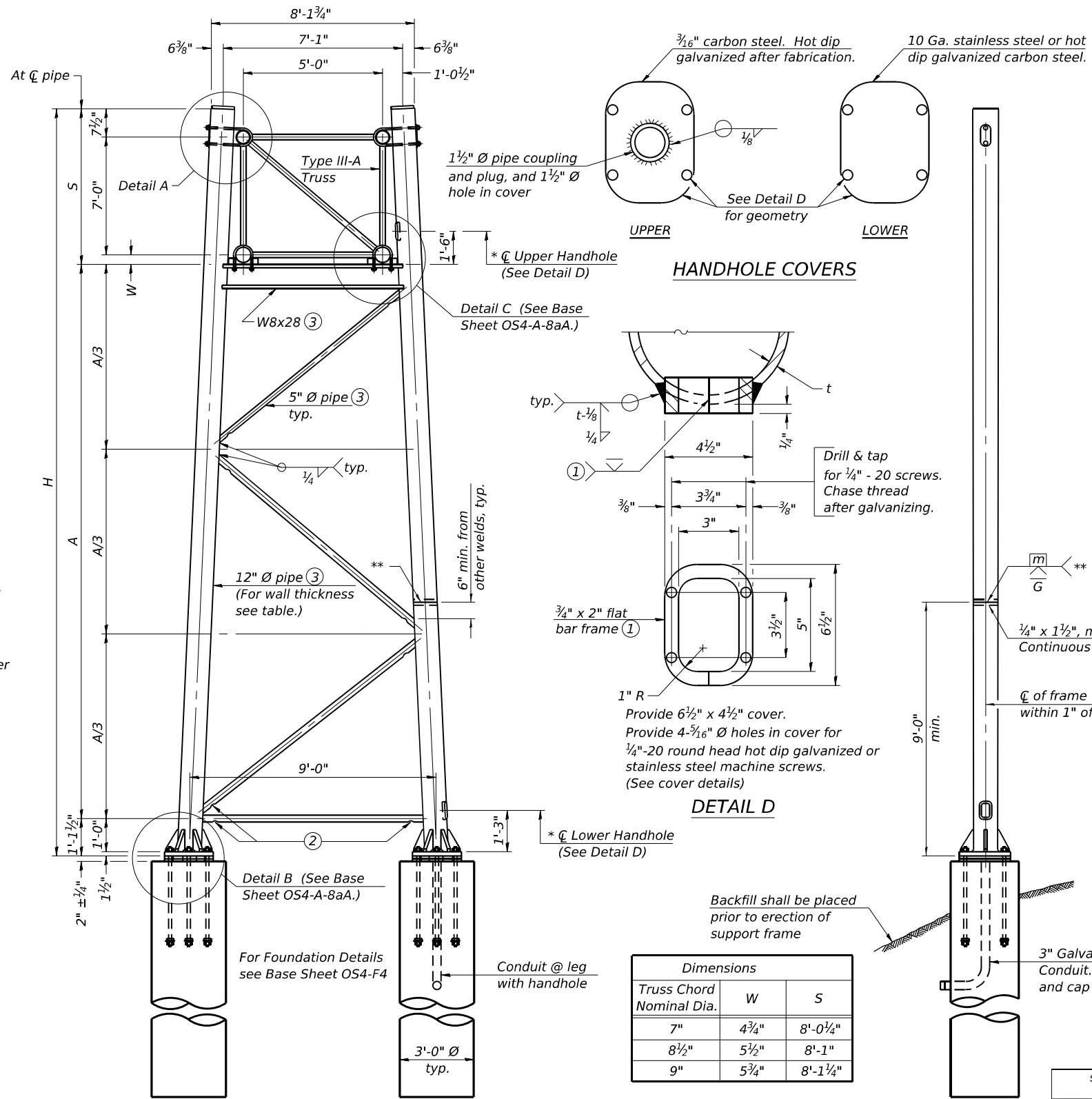


SECTION A-A

As an alternate to bolts, may use galvanized drive-fit caps installed after galvanizing frame.



SECTION B-B



SIDE ELEVATION

END ELEVATION

Dimensions		
Truss Chord Nominal Dia.	W	S
7"	4 3/4"	8'-0 1/4"
8 1/2"	5 1/2"	8'-1"
9"	5 3/4"	8'-1 1/4"

TRUSS SUPPORT DETAILS

(12" Ø Pipe-Type III-A Truss)

** One butt welded joint is allowed only on one post per support frame. If used, weld procedure must be pre-approved by Engineer and joint shall receive 100% RT or UT (tension criteria) at Contractor's expense.

Support Design Loads: See Base Sheet OS-A-1 for design and loading criteria.

Load combinations checked include deadload plus:
a) 100% wind normal to sign, 20% parallel to sign
b) 60% wind normal to sign, 30% parallel to sign

- In lieu of fabricated handhole frame as shown, may cut from 2" plate (rolling direction vertical). All cut faces to be ground to ANSI Roughness of 500 µin or less.
- Galvanizing vent holes of adequate size shall be provided on underside at each end of bracing pipes. Alternately, holes may be provided in wall of pipe column. All vent holes shall be drilled and de-burred, typ.
- Steel pipe, plate, carbon steel handhole covers and rolled sections shall be hot dip galvanized after fabrication. Painting is not permitted. See Base Sheet OS-A-1.
- See General Notes for fasteners.
- Dimensions shown are based on selection criteria in the Sign Structures Manual. Nonstandard applications must have dimensions verified or amended as appropriate.
- "H" based on 15'-0" or actual sign height, whichever is greater.

* For dynamic message sign installations, provide upper and lower handholes in both legs of each support frame.

Structure Number	Station	Support		Truss Type	Pipe Wall Thickness	H	A
		Left	Right				
1S0161290R000.0-000	1130+30.00	X		III-A	0.33	26'-9 5/8"	17'-7 7/8"
1S0161290R000.0-000	1130+30.00		X	III-A	0.33	29'-11 3/4"	20'-10"
1S016S053L000.0-008	1488+07.00	X		III-A	0.33	28'-0 1/4"	18'-10 1/2"
1S016S053L000.0-008	1488+07.00		X	III-A	0.33	33'-5 3/16"	24'-3 7/16"
1S016S053L000.0-009	1498+06.00	X	X	III-A	0.33	32'-8 7/8"	23'-7 1/8"

OS4-A-8a

5-15-2023



USER NAME = StevenB	DESIGNED - TCH	REVISED -
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	DATE - 12/13/24	REVISED -

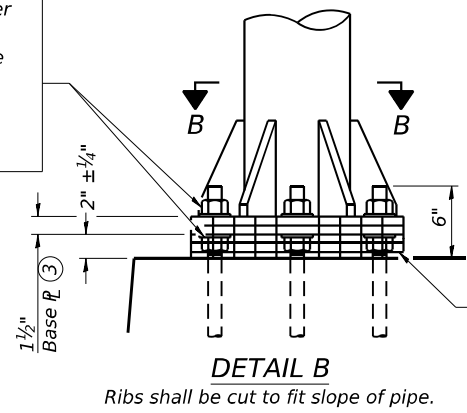
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

OVERHEAD SIGN STRUCTURES - SUPPORT FRAME
FOR TYPE III-A ALUMINUM TRUSS

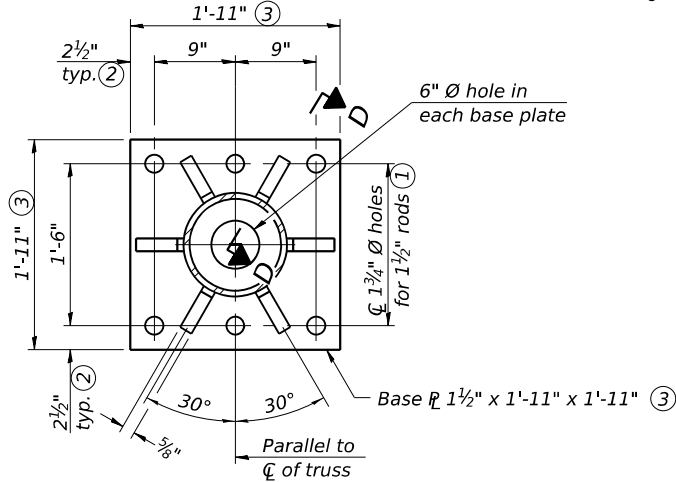
SCALE: SHEET 7 OF 25 SHEETS STA. TO STA.

F.A.P. RTE. 342	SECTION 2018-100-BR	COUNTY COOK	TOTAL SHEETS 1351	SHEET NO. 469
CONTRACT NO. 62N91				
ILLINOIS FED. AID PROJECT				

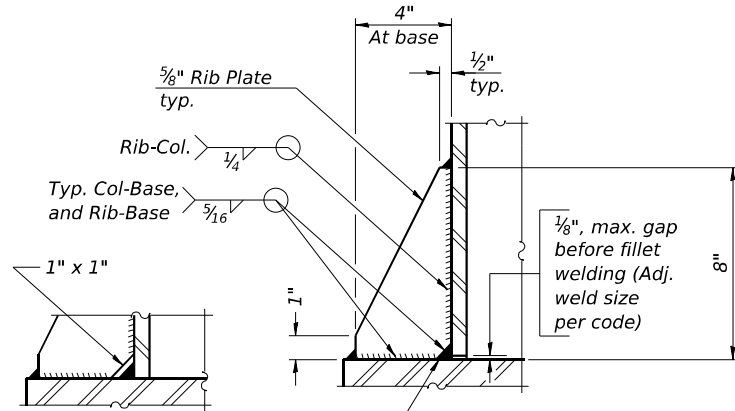
Hexagon locknut and washer (top), leveling nut and washer (bottom). Galvanize per AASHTO M232. Nuts shall each be tightened against base plate with 200 lb.-ft. minimum torque.



Stainless Steel Standard Grade Wire Cloth, 3" wide, 1/4" maximum opening with a minimum wire diameter of AWG. No. 16 with a minimum 2" lap. Secure to base plate after erection with 3/4" stainless steel banding.

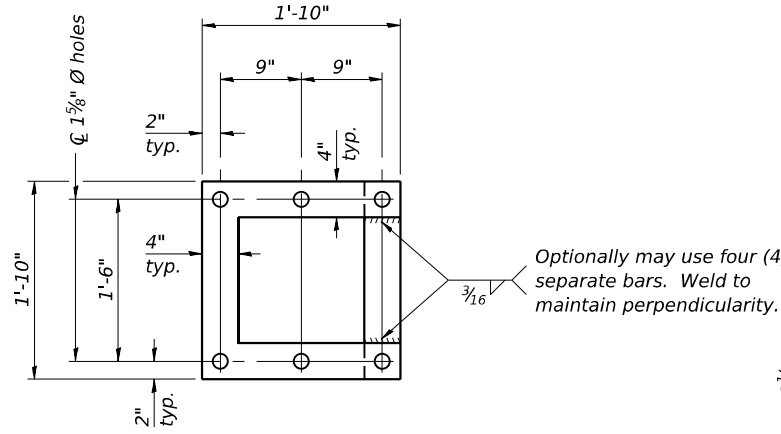


SECTION B-B

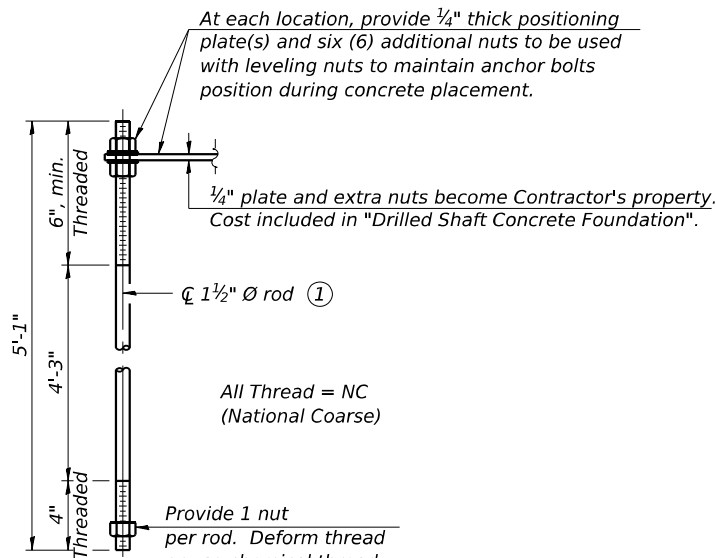


** Alternate detail if welding col. to base plate first, then snip inside corner of ribs. Terminate weld on rib 1/4" from snip.

SECTION D-D



POSITIONING PLATE(S)



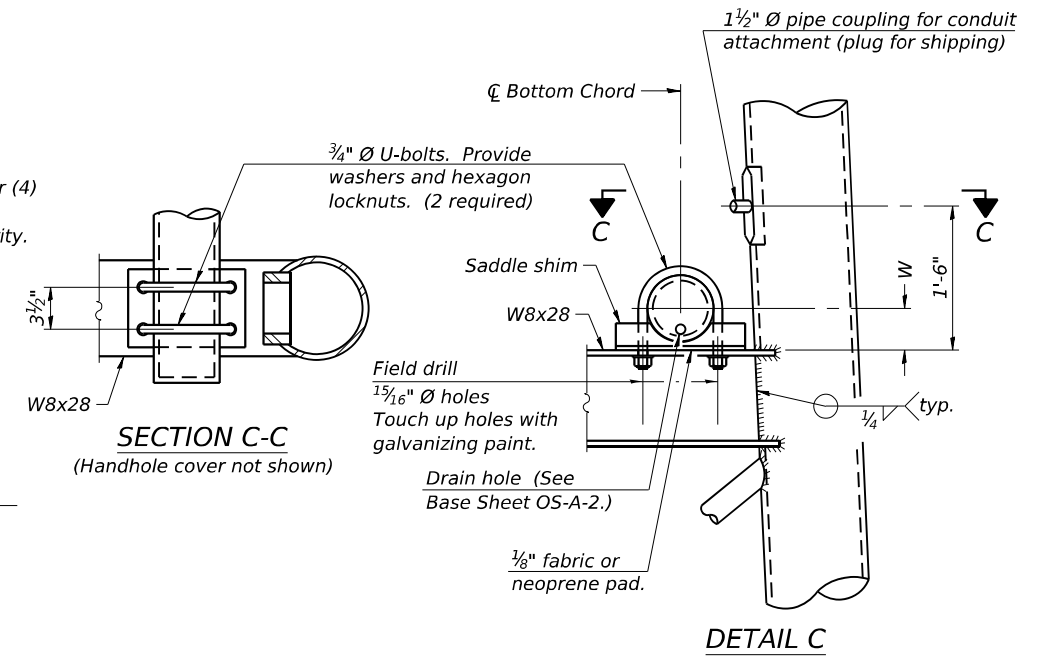
ANCHOR ROD DETAIL

Anchor rods shall conform to ASTM F1554 Grade 105 Galvanize upper 12" minimum per AASHTO M232. No welding shall be permitted on rods.

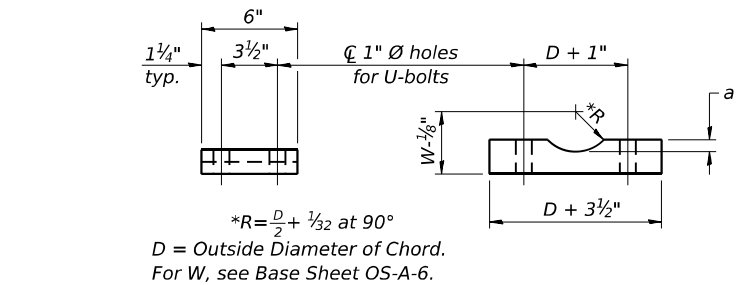
**TYPE III-A TRUSS
12" Ø PIPE SUPPORT FRAME DETAILS**

Notes:
For Type III-A Truss spans greater than 150 ft, and up to 160 ft.:

- ① 1 3/4" Ø rod, 2" Ø holes
- ② 2 3/4" edge distance
- ③ Base \square 1 5/8" x 1'-11 1/2" x 1'-11 1/2"



DETAIL C



Truss Chord Nominal Dia.	a
7"	1"
8 1/2"	1 1/4"
9"	1 3/8"

SADDLE SHIM DETAIL
ASTM B26 Alloy 356-F
or
ASTM B209 Alloy 6061-T651
(4 required per sign truss)

OS4-A-8aA

5-15-2023



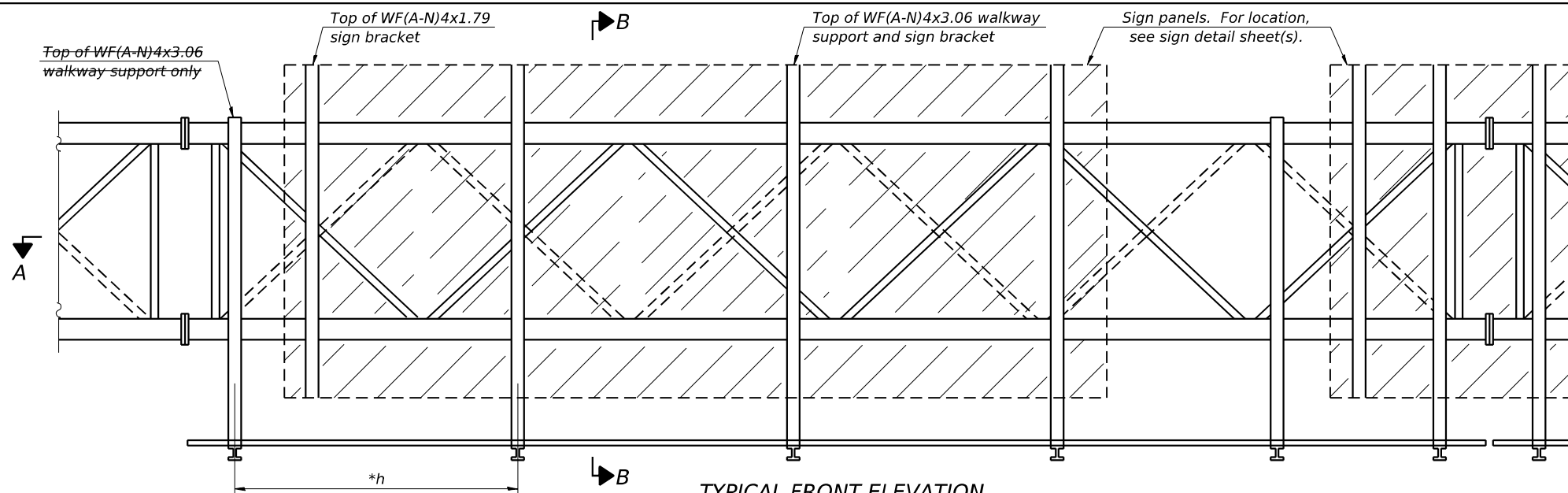
USER NAME = StevenB	DESIGNED - TCH	REVISED -
PLOT SCALE = 0.1667' / in.	DRAWN - DJW	REVISED -
PLOT DATE = 12/13/2024	CHECKED - MAG	REVISED -
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

OVERHEAD SIGN STRUCTURES
SUPPORT FRAME FOR TYPE III-A ALUMINUM TRUSS

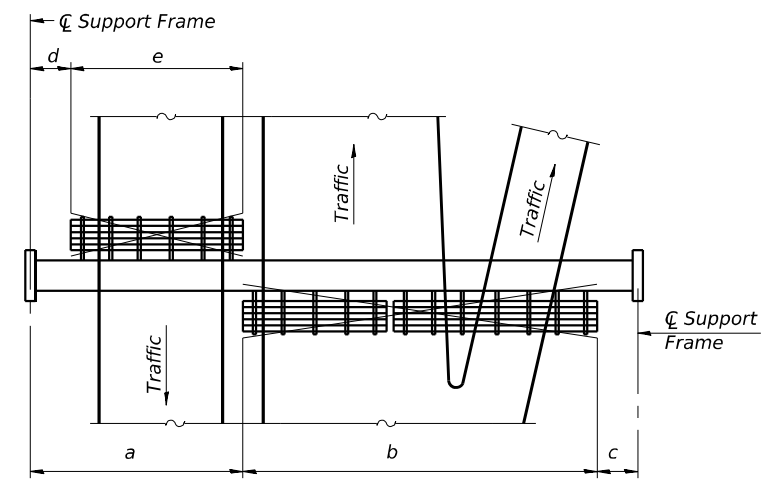
SCALE: SHEET 8 OF 25 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
342	2018-100-BR	COOK	1351	470
			CONTRACT NO. 62N91	
ILLINOIS FED. AID PROJECT				



TYPICAL FRONT ELEVATION

With lights and handrail omitted for clarity.
For Section B-B, see Base Sheet OS-A-10.



PLAN
WALKWAY AND HANDRAIL SKETCH
(Road plan beneath truss varies)

BRACKET TABLE

WF(A-N)4x1.79 or WF(A-N)4x3.06 ASTM B308, Alloy 6061-T6		
Sign Width		Number Brackets Required
Greater Than	Less Than or Equal To	
	8'-0"	2
8'-0"	14'-0"	3
14'-0"	20'-0"	4
20'-0"	26'-0"	5
26'-0"	32'-0"	6

Notes:

* Space walkway brackets WF(A-N)4x3.06 and sign brackets WF(A-N)4x1.79 for efficiency and within limits shown:

f = 12" maximum, 4" minimum (End of sign to $\text{\textcircled{C}}$ of nearest bracket)
g = 12" maximum, 4" minimum (End of walkway grating to $\text{\textcircled{C}}$ of nearest support bracket)

h = 6'-0" maximum ($\text{\textcircled{C}}$ to $\text{\textcircled{C}}$ sign and/or walkway support brackets, WF(A-N)4x1.79 or WF(A-N)4x3.06)

k = 2" maximum gap between adjacent walkway grating sections and handrail ends

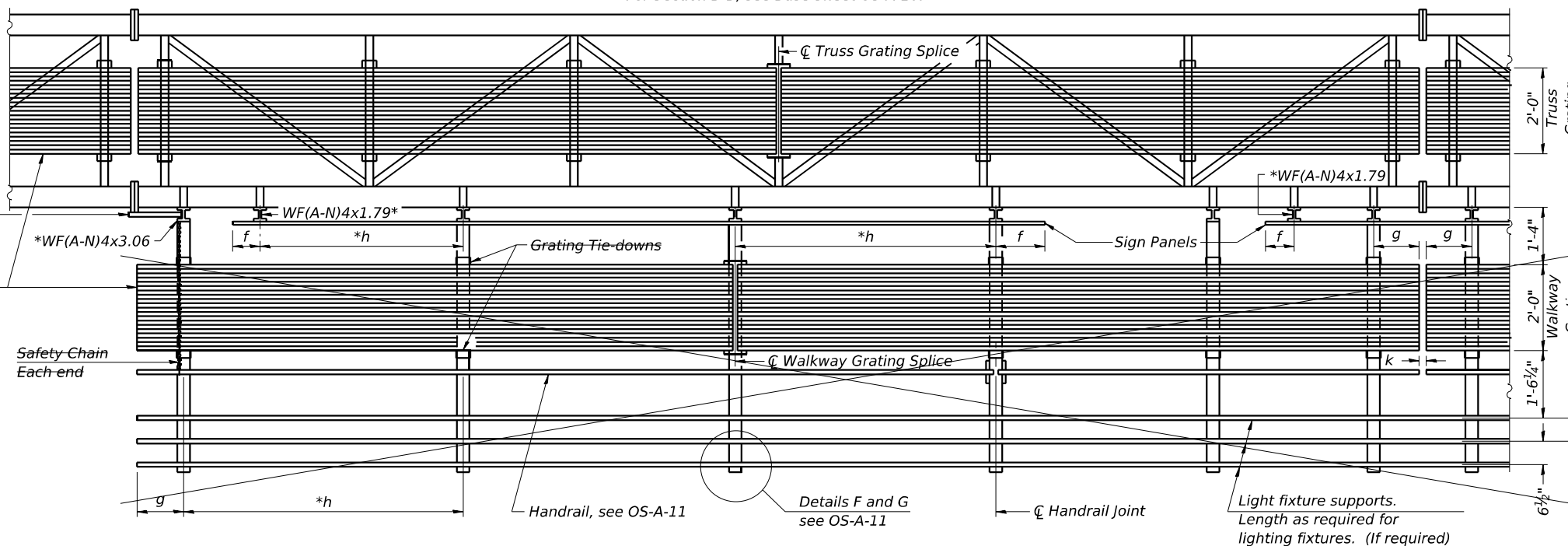
** If walkway bracket at safety chain location is behind sign, add angle to bracket, see Alternate Safety Chain Attachment on Base Sheet OS-A-11.

For Details T and W, Section B-B and Grating Splice Details see Base Sheet OS-A-10.

For Handrail Details see Base Sheet OS-A-11.

** Alternate angle for safety chain attachment

Standard Aluminum Grating, see Details T and W



SECTION A-A

Handrail and walkway shall span a minimum of three brackets between splices and/or gap joints. Place all sign and walkway brackets as close to panel points as practical. Handrail joints, grating, and light support splices placed as needed.

Truss grating to facilitate inspection shall run full length (center to center of support frames) $\pm 12"$ on overhead trusses. Cost of truss grating is included in "Overhead Sign Structure".

Walkway and Truss Grating width dimensions are nominal and may vary $\pm 1/2"$ based on available standard widths.

Structure Number	Station	a	b	c	d	e	Walkway Grating and Handrail Lengths
1S016I290R000.0-000	1130+30.00	N/A	N/A	N/A	N/A	N/A	N/A
1S016S053L000.0-000	1135+55.00	N/A	N/A	N/A	N/A	N/A	N/A
1S016S053R000.0-007	1159+25.00	N/A	N/A	N/A	N/A	N/A	N/A
1S016S053L000.0-006	1397+10.00	N/A	N/A	N/A	N/A	N/A	N/A
1S016S053L000.0-007	1433+18.00	N/A	N/A	N/A	N/A	N/A	N/A
1S016S053L000.0-008	1488+07.00	N/A	N/A	N/A	N/A	N/A	N/A
1S016S053L000.0-009	1498+06.00	N/A	N/A	N/A	N/A	N/A	N/A

OS-A-9 5-15-2023



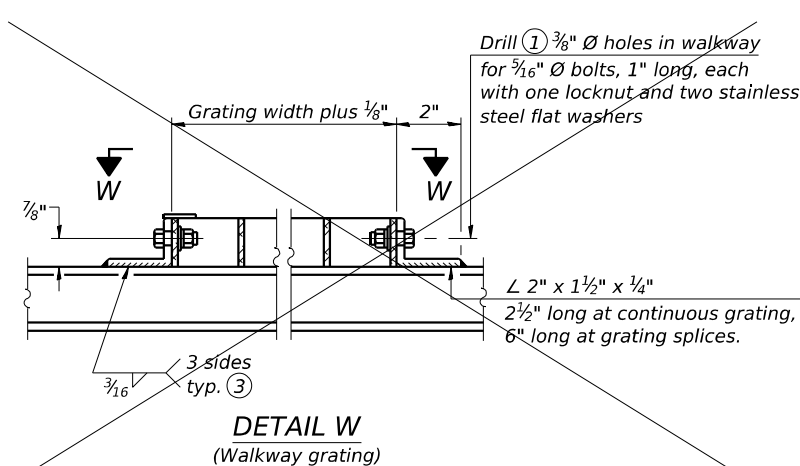
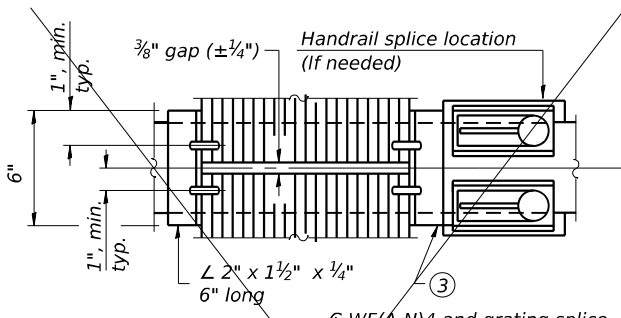
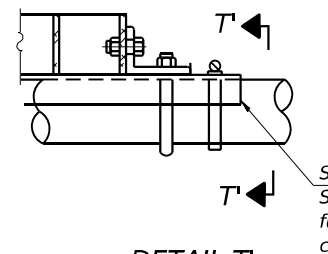
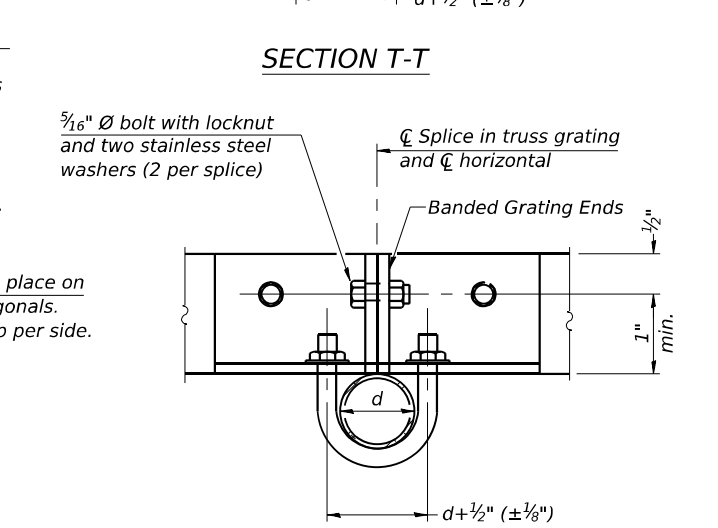
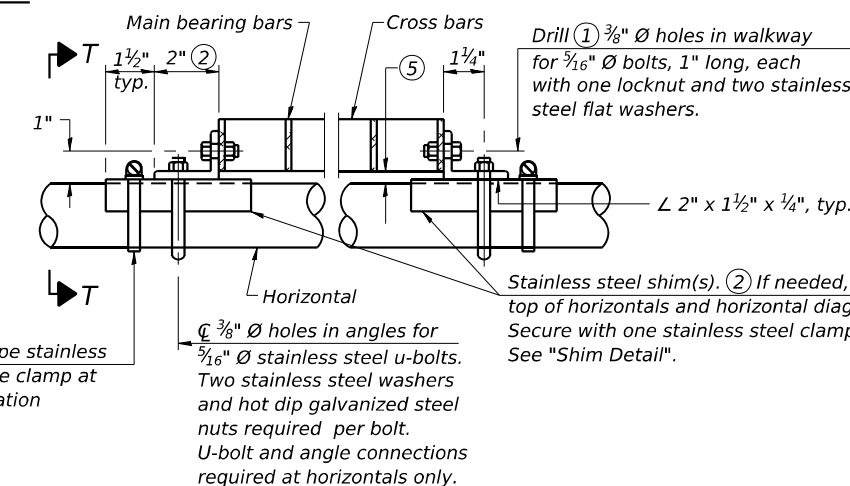
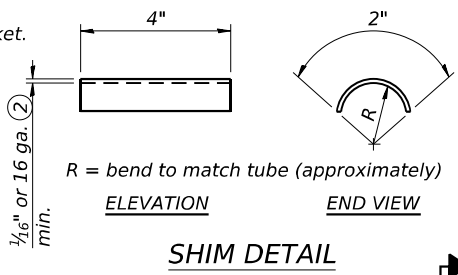
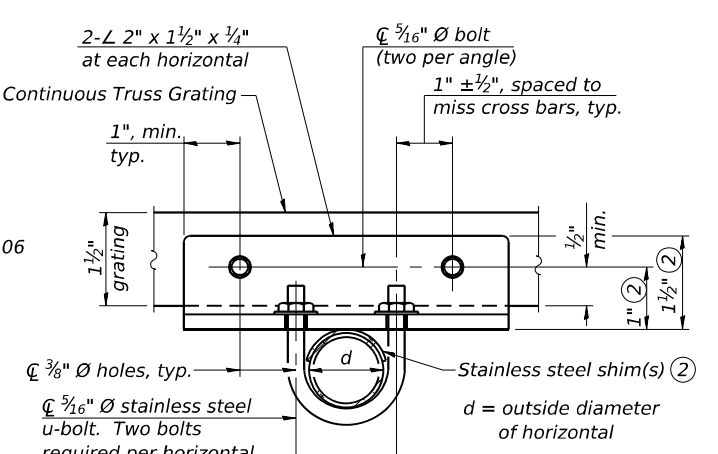
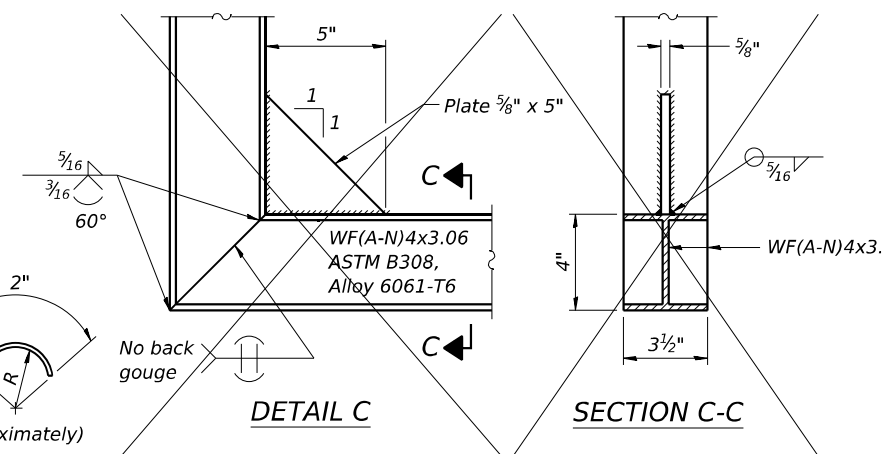
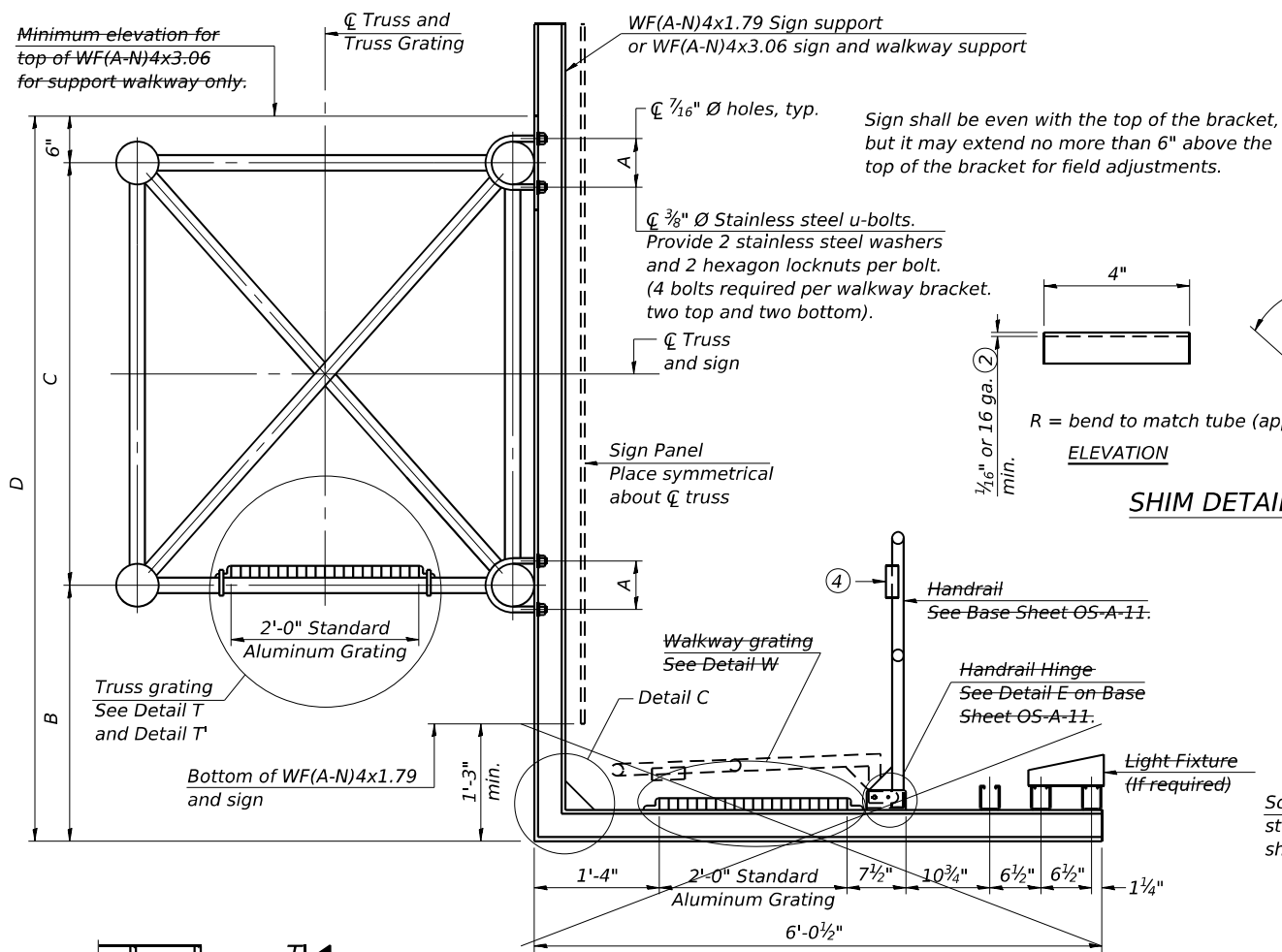
USER NAME = StevenB	DESIGNED - TCH	REVISED -
PLOT SCALE = 0.1667' / in.	DRAWN - DJW	REVISED -
PLOT DATE = 12/13/2024	CHECKED - MAG	REVISED -
	DATE - 12/13/24	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

OVERHEAD SIGN STRUCTURES
ALUMINUM WALKWAY DETAILS

SCALE: SHEET 9 OF 25 SHEETS STA. TO STA.

F.A.P. RTE. 342	SECTION 2018-100-BR	COUNTY COOK	TOTAL SHEETS 1351	SHEET NO. 471
CONTRACT NO. 62N91			ILLINOIS FED. AID PROJECT	



SPECIFICATIONS FOR STANDARD ALUMINUM GRATING

Main Bearing Bars shall be 3/16" x 1 1/2" on 1 3/16" centers and conform to ASTM B221 Alloy 6061-T6.

Cross bars shall be 3/16" x 1 1/2" on 4" centers and conform to ASTM B221 Alloy 6063-T5 or 6061-T6.

OR

Aluminum Grating with modified "t" sections for main bearing bars shall meet the following requirements:

Main bars shall conform to ASTM B221 Alloy 6061-T6 and have a minimum section modulus equal to 0.0705 in.³ per bar, a depth of 1 1/2", spaced on 1 3/16" centers.

Cross bars shall conform to ASTM B221 Alloy 6063-T5 or T-42 and spaced on 4" centers.

Structure Number	Station	A	⊕B	C	⊕D
1S016I290R000.0-000	1130+30.00	12 7/8"	3'-9"	7'-0"	11'-3"
1S016S053L000.0-000	1135+55.00	9 1/8"	2'-9"	4'-6"	7'-9"
1S016S053R000.0-007	1159+25.00	9 1/8"	4'-3"	4'-6"	9'-3"
1S016S053L000.0-006	1397+10.00	9 1/8"	2'-9"	4'-6"	7'-9"
1S016S053L000.0-007	1433+18.00	11 7/8"	1'-4 1/2"	5'-3"	7'-1 1/2"
1S016S053L000.0-008	1488+07.00	11 7/8"	1'-0"	7'-0"	8'-6"
1S016S053L000.0-009	1498+06.00	11 7/8"	1'-3"	7'-0"	8'-9"

- Drilling holes in grating may be done in shop or field, based on Contractor's preference and subject to accurate alignment.
- Stainless steel shims shall be placed as shown in Detail T if needed to compensate for alignment variations between horizontal and diagonal pipes beyond adjustment provided by angles. Thicker shims may be used subject to shims performing properly.
- If Handrail Joint present, weld angle to WF(A-N)4 and 1/4" extension bars. (See Base Sheet OS-A-11.)
- 1/2" x 1/2" x 2" welded to handrail posts to protect locations that contact grating.
- Tube to grating gap may vary from 0 to 1/2", max. to align walkway, allow for camber, etc.
- Based on actual height of tallest sign given on OS-A-1.

OS-A-10

5-15-2023



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PLOT SCALE = 0.1667' / in.	DRAWN - DJW	REVISED -
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	DATE - 12/13/24	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

OVERHEAD SIGN STRUCTURES
ALUMINUM WALKWAY DETAILS

SCALE: SHEET 10 OF 25 SHEETS STA. TO STA.

F.A.P. RTE. 342	SECTION 2018-100-BR	COUNTY COOK	TOTAL SHEETS 1351	SHEET NO. 472
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62N91	

BAR LIST - EACH FOUNDATION

Bar	Number	Size	Length	Shape
v4(E)	16	#9	F less 5"	—
#4 bar spiral (E) - see Side Elevation				

NOTES:

The foundation dimensions shown are based on the presence of mostly cohesive soils with an average Unconfined Compressive Strength (Qu) of at least 1.25 tsf, which must be determined by previous soil investigations at the jobsite. When other conditions are indicated, the boring data will be included in the plans and the foundation dimensions shown will be the result of site specific designs.

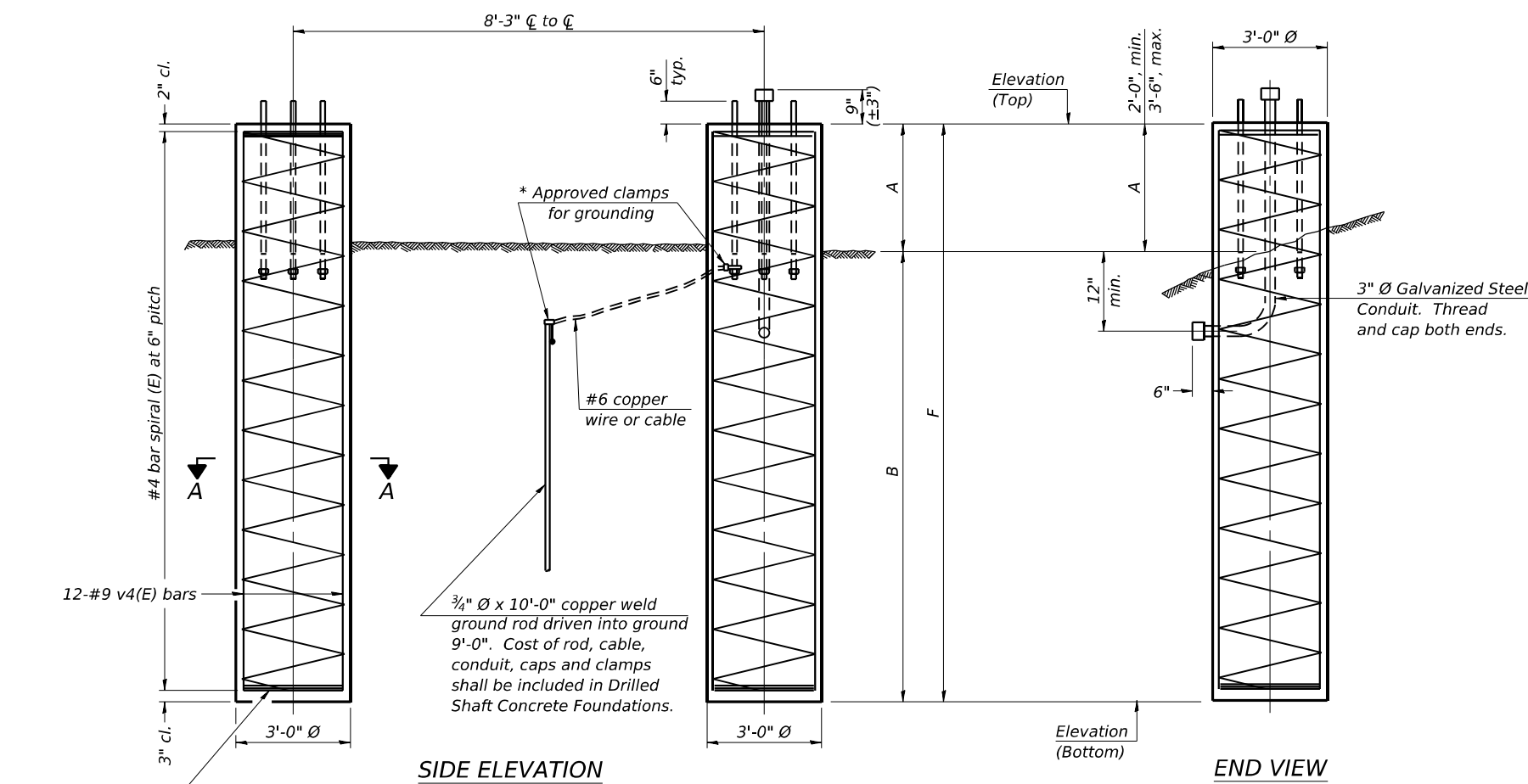
If the conditions encountered are different than those indicated, the Contractor shall notify the Engineer to determine if the foundation dimensions need to be modified. If dimensions "B" or "F" are revised by more than 12" by the Contractor, "as-built" plans shall be prepared and submitted to the District Bureau of Operations for future reference.

No sonotubes or decomposable forms shall be used below the lower conduit entrance. Permanent metal forms or other shielding may not be left in place below that elevation without the Engineer's written permission.

Concrete shall be placed monolithically, without construction joints.

Backfill shall be placed per Article 502 of Standard Specification and prior to erection of support column.

A normal surface finish followed by a Concrete Sealer application will be required on concrete surfaces above the lowest elevation 6" below finished ground line. Cost included in Drilled Shaft Concrete Foundation.

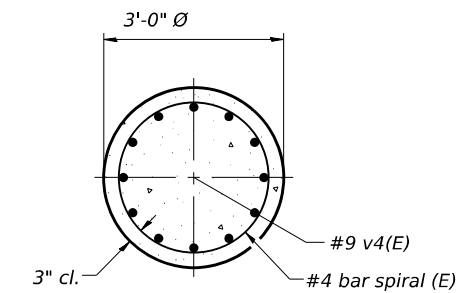


SIDE ELEVATION

END VIEW

3 hoops minimum top and bottom

* Approved clamps for grounding
#6 copper wire or cable
3/4" Ø x 10'-0" copper weld ground rod driven into ground 9'-0". Cost of rod, cable, conduit, caps and clamps shall be included in Drilled Shaft Concrete Foundations.

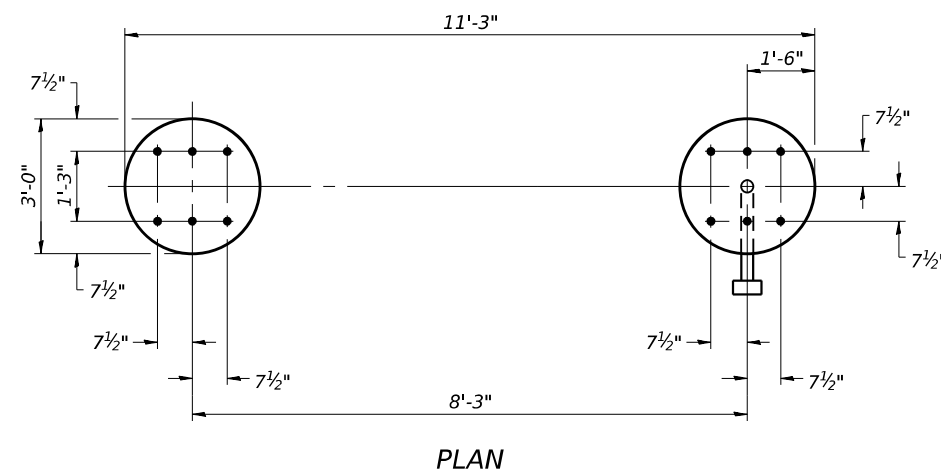


SECTION A-A

For anchor rod size and placement, see Support Frame Detail Sheet.

* Anchor rod shall be ground or filed to bright metal at clamp and cable connection location.

**DETAILS FOR 10" Ø SUPPORT FRAME
TYPE I-A or II-A TRUSS**



PLAN

Structure Number	Station	Left Foundation					Right Foundation					Class DS Concrete (Cu. Yds.)
		Elevation Top	Elevation Bottom	A	B	F	Elevation Top	Elevation Bottom	A	B	F	
1S016S053L000.0-000	1135+55.00	N/A	N/A	N/A	N/A	N/A	740.73	722.23	2'-0"	16'-6"	18'-6"	9.69
1S016S053R000.0-007	1159+25.00	N/A	N/A	N/A	N/A	N/A	717.72	699.22	2'-0"	16'-6"	18'-6"	9.69
1S016S053L000.0-006	1397+10.00	N/A	N/A	N/A	N/A	N/A	719.98	700.98	2'-6"	16'-6"	19'-0"	9.95
1S016S053L000.0-007	1433+18.00	723.00	699.80	2'-8 3/8"	20'-6"	23'-2 3/8"	723.00	699.50	3'-0"	20'-6"	23'-6"	24.45

OS4-F3 5-15-2023



USER NAME = StevenB	DESIGNED - TCH	REVISED -
PLOT SCALE = 0.1667' / in.	DRAWN - DJW	REVISED -
PLOT DATE = 12/13/2024	CHECKED - MAG	REVISED -
	DATE - 12/13/24	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

OVERHEAD SIGN STRUCTURES
DRILLED SHAFT DETAILS

SCALE: SHEET 11 OF 25 SHEETS STA. TO STA.

F.A.P. RTE. 342	SECTION 2018-100-BR	COUNTY COOK	TOTAL SHEETS 1351	SHEET NO. 473
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62N91	

BAR LIST - EACH FOUNDATION

Bar	Number	Size	Length	Shape
v4(E)	24	#9	F less 5"	—
#4 bar spiral (E) - see Side Elevation				

NOTES:

The foundation dimensions shown are based on the presence of mostly cohesive soils with an average Unconfined Compressive Strength (Qu) of at least 1.25 tsf, which must be determined by previous soil investigations at the jobsite. When other conditions are indicated, the boring data will be included in the plans and the foundation dimensions shown will be the result of site specific designs.

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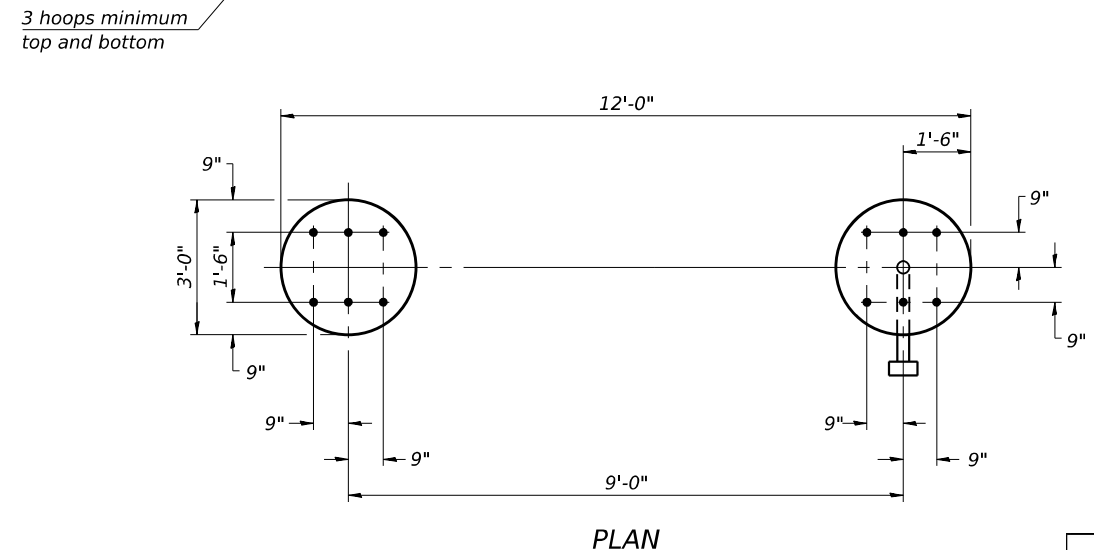
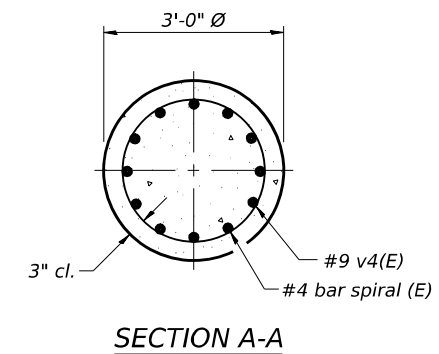
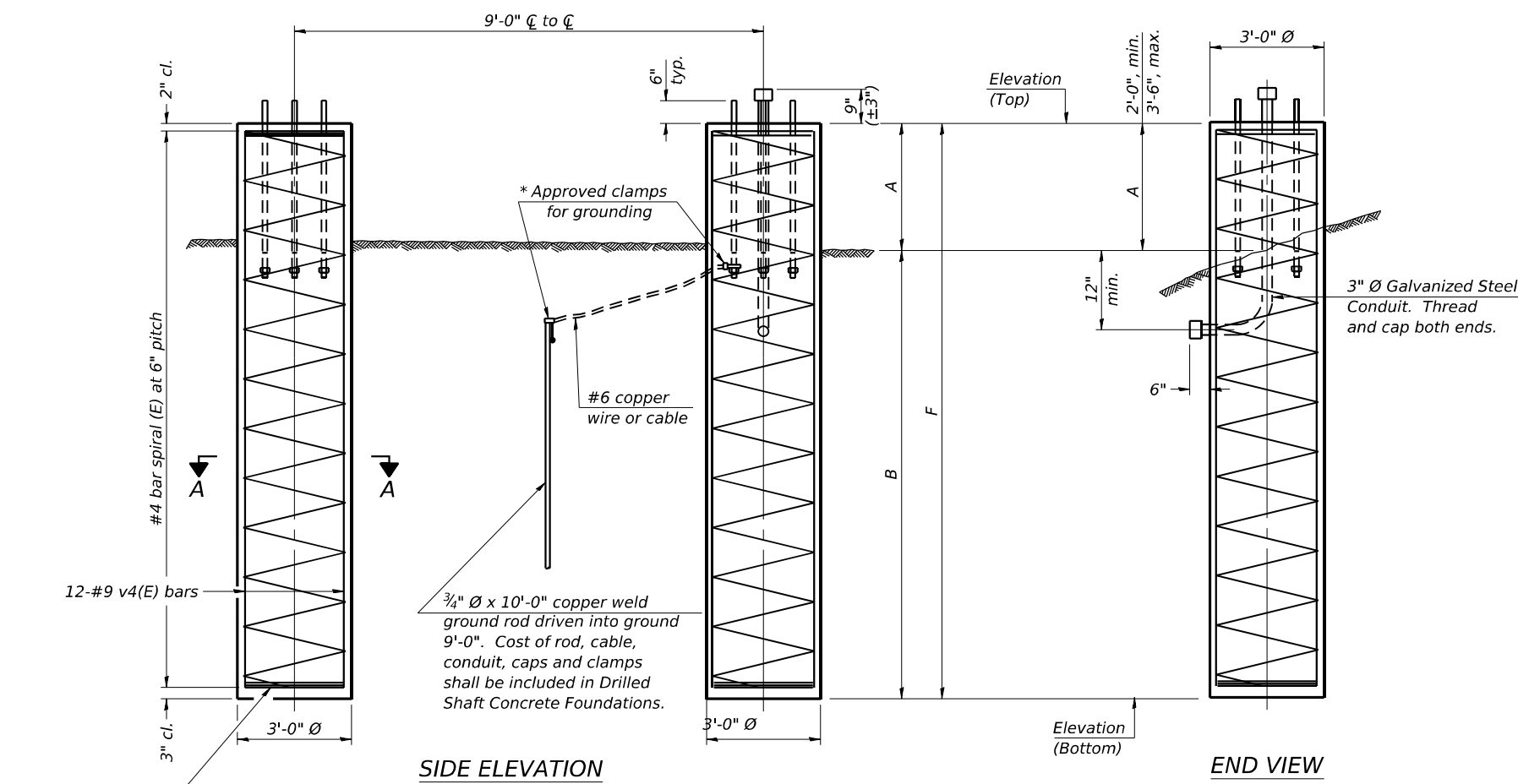
No sonotubes or decomposable forms shall be used below the lower conduit entrance.

Permanent metal forms or other shielding may not be left in place below that elevation without the Engineer's written permission.

Concrete shall be placed monolithically, without construction joints.

Backfill shall be placed per Article 502 of Standard Specification and prior to erection of support column.

A normal surface finish followed by a Concrete Sealer application will be required on concrete surfaces above the lowest elevation 6" below finished ground line. Cost included in Drilled Shaft Concrete Foundation.



For anchor rod size and placement, see Support Frame Detail Sheet.

* Anchor rod shall be ground or filed to bright metal at clamp and cable connection location.

**DETAILS FOR 12" Ø SUPPORT FRAME
TYPE III-A TRUSS**

Structure Number	Station	Left Foundation					Right Foundation					Class DS Concrete (Cu. Yds.)
		Elevation Top	Elevation Bottom	A	B	F	Elevation Top	Elevation Bottom	A	B	F	
150161290R000.0-000	1130+30.00	N/A	N/A	N/A	N/A	N/A	744.03	724.03	2'-0"	18'-0"	20'-0"	10.47
150165053L000.0-008	1488+07.00	731.00	713.00	2'-0"	18'-0"	20'-0"	736.41	718.41	2'-0"	18'-0"	20'-0"	20.94
150165053L000.0-009	1498+06.00	736.00	718.00	2'-0"	18'-0"	20'-0"	736.00	718.00	2'-9 1/4"	18'-0"	20'-9 1/4"	21.35

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OS4-F4

5-15-2023



USER NAME = StevenB	DESIGNED - TCH	REVISED -
PLOT SCALE = 0.1667' / in.	DRAWN - DJW	REVISED -
PLOT DATE = 12/13/2024	CHECKED - MAG	REVISED -
	DATE - 12/13/24	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

OVERHEAD SIGN STRUCTURES
DRILLED SHAFT DETAILS

SCALE: SHEET 12 OF 25 SHEETS STA. TO STA.

F.A.P. RTE. 342	SECTION 2018-100-BR	COUNTY COOK	TOTAL SHEETS 1351	SHEET NO. 474
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62N91	

* Anchor rod shall be ground or filed to bright metal at clamp and cable connection location.

NOTES:

The foundation dimensions shown are based on the presence of mostly cohesive soils with an average Unconfined Compressive Strength (Qu) of at least 1.25 tsf, which must be determined by previous soil investigations at the jobsite. When other conditions are indicated, the boring data will be included in the plans and the foundation dimensions shown will be the result of site specific designs.

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Concrete shall be placed monolithically, without construction joints.

Backfill shall be placed per Article 502 of Standard Specification and prior to erection of support column.

A normal surface finish followed by a Concrete Sealer application will be required on concrete surfaces above the lowest elevation 6" below finished ground line. Cost included in Drilled Shaft Concrete Foundation.

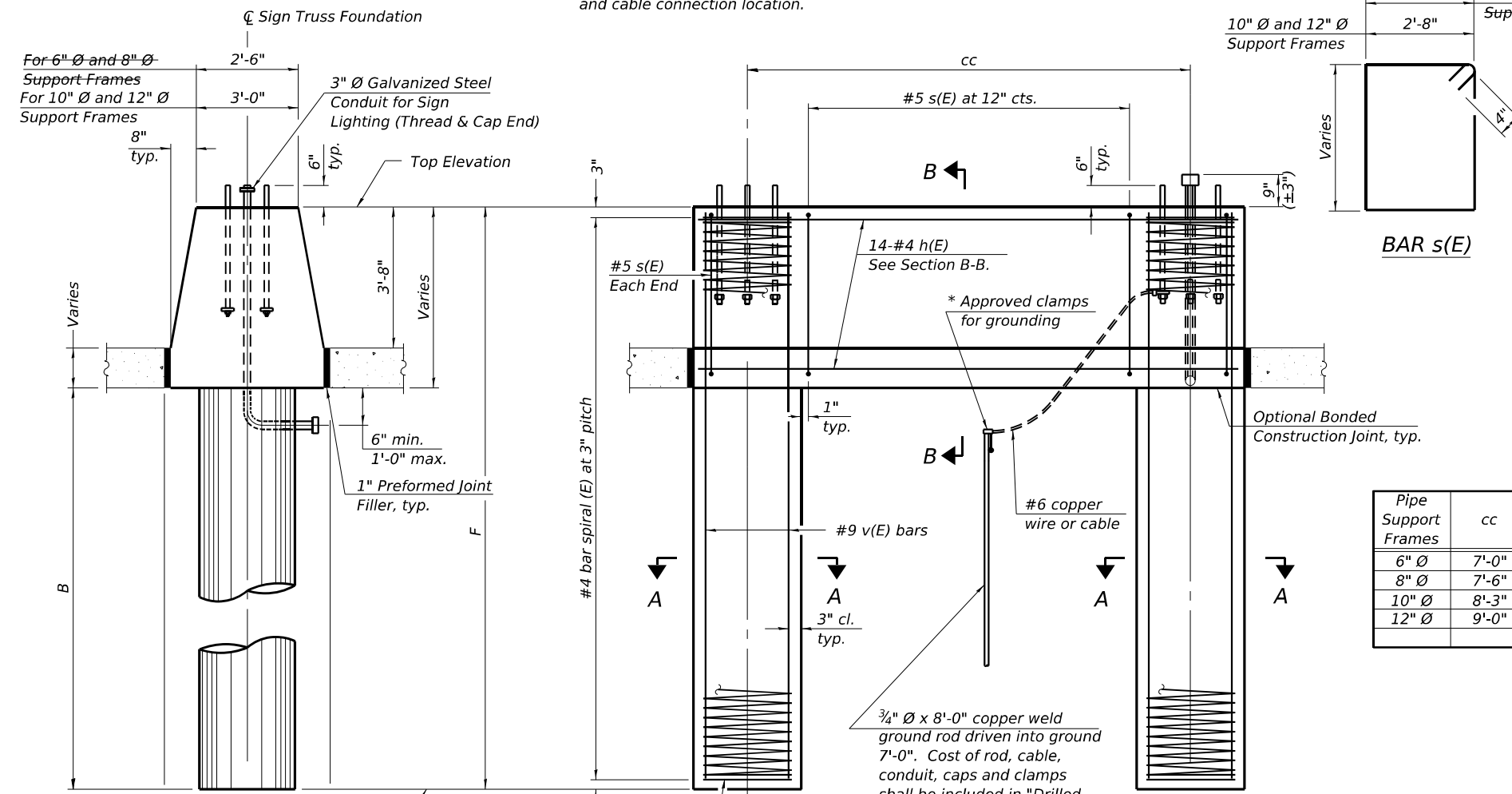
BAR LIST - EACH FOUNDATION

Bar	Number	Size	Length	Shape
h(E)	14	#4	M less 4"	—
s(E)	Varies	#5	Varies	□
v(E)	16	#9	F less 0'-5"	—
v(E)	24	#9	F less 0'-5"	—

#4(E) bar spiral. See Side Elevation

6" Ø and 8" Ø Support Frame
10" Ø and 12" Ø Support Frame

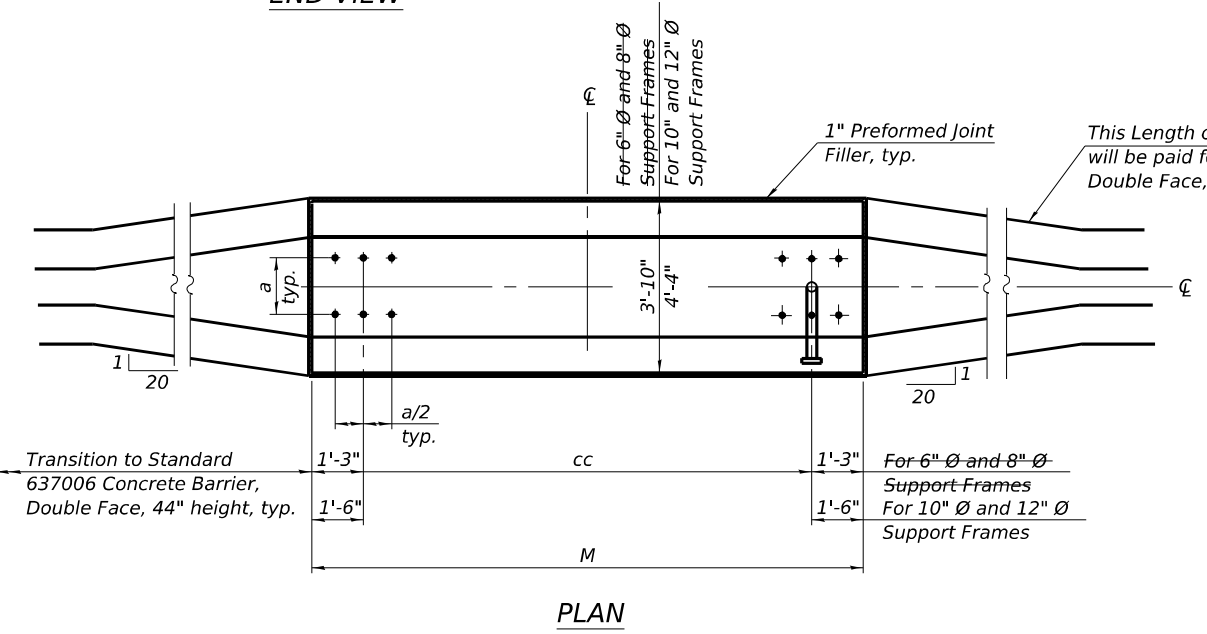
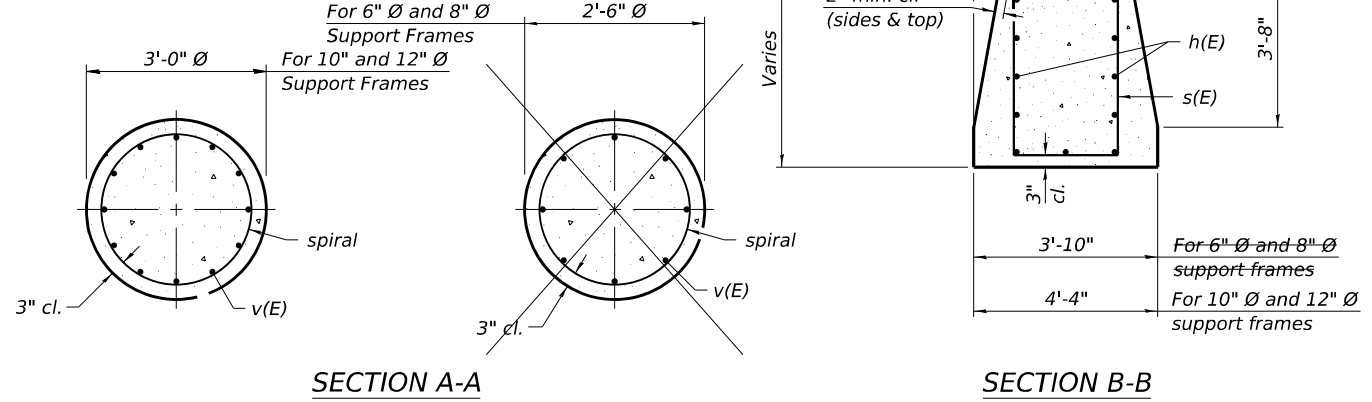
Pipe Support Frames	cc	M	a	a/2
6" Ø	7'-0"	9'-6"	0'-11"	5½"
8" Ø	7'-6"	10'-0"	1'-1½"	6¾"
10" Ø	8'-3"	11'-3"	1'-3"	7½"
12" Ø	9'-0"	12'-0"	1'-6"	9"



END VIEW

Support Frame Size	8"	2'-6"	8"
For 6" Ø and 8" Ø Support Frames	8"	2'-6"	8"
For 10" Ø and 12" Ø Support Frames	8"	3'-0"	8"

SIDE ELEVATION
Concrete Foundation poured monolithically with no construction joint.



Structure Number	Station	Left Foundation				Right Foundation				Class DS Concrete (Cu. Yds.)
		Elevation Top	Elevation Bottom	B	F	Elevation Top	Elevation Bottom	B	F	
1S016I290R000.0-000	1130+30.00	747.21	726.13	18	21'-1"	N/A	N/A	N/A	N/A	22.87
1S016S053L000.0-000	1135+55.00	745.12	724.04	16'-6"	21'-1"	N/A	N/A	N/A	N/A	22.09
1S016S053R000.0-007	1159+25.00	722.87	701.78	16'-6"	21'-1"	N/A	N/A	N/A	N/A	22.09
1S016S053L000.0-006	1397+10.00	724.59	703.51	16'-6"	21'-1"	N/A	N/A	N/A	N/A	22.09

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OS4-MED
1170 SOUTH HOUBOLT ROAD
JOLIET, ILLINOIS 60431
(815) 744-4200
STRAND ASSOCIATES

5-15-2023

USER NAME = StevenB	DESIGNED - TCH	REVISED -
PLOT SCALE = 0.1667' / in.	DRAWN - DJW	REVISED -
PLOT DATE = 12/13/2024	CHECKED - MAG	REVISED -
	DATE - 12/13/24	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

OVERHEAD SIGN STRUCTURES
MEDIAN SUPPORT FOUNDATION DETAILS

SCALE: SHEET 13 OF 25 SHEETS STA. TO STA.

F.A.P. RTE. 342	SECTION 2018-100-BR	COUNTY COOK	TOTAL SHEETS 1351	SHEET NO. 475
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62N91	

GENERAL NOTES

DESIGN: AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaires and Traffic Signals. ("AASHTO Specifications")

CONSTRUCTION: Current (at time of letting) Illinois Department of Transportation Standard Specifications for Road and Bridge Construction, Supplemental Specifications and Special Provisions. ("Standard Specifications")

LOADING: 90 M.P.H. WIND VELOCITY

WALKWAY LOADING: Dead load plus 500 lbs. concentrated live load.

DESIGN STRESSES:

Field Units

$f_c = 3,500$ p.s.i.

$f_y = 60,000$ p.s.i. (reinforcement)

WELDING: All welds to be continuous unless otherwise shown. All welding to be done in accordance with current AWS D1.1 and D1.2 Structural Welding Codes (Steel and Aluminum) and the Standard Specifications.

MATERIALS: Aluminum Alloys as shown throughout plans. All Structural Steel Pipe shall be ASTM A53 Grade B or A500 Grade B or C. If A500 pipe is substituted for A53, then the outside diameter shall be as detailed and wall thickness greater than or equal to A53.

All Structural Steel Plates and Shapes shall conform to AASHTO M270 Gr. 36, Gr. 50 or Gr. 50W*. Stainless steel for shims, sleeves and handhole covers shall be ASTM A240, Type 302 or 304, or another alloy suitable for exterior exposure and acceptable to the Engineer.

The steel pipe and stiffening ribs at the base plate for the column shall have a minimum longitudinal Charpy V-Notch (CVN) energy of 15 lb.-ft. at 40° F. (Zone 2) before galvanizing.

FASTENERS FOR ALUMINUM TRUSSES: All bolts noted as "high strength" must satisfy the requirements of AASHTO M164 (ASTM A325), or approved alternate, and must have matching lock nuts. Threaded studs for splices (if Members interfere) must satisfy the requirements of ASTM A449, ASTM A193, Grade B7, or approved alternate, and must have matching lock nuts. Bolts and lock nuts not required to be high strength must satisfy the requirements of ASTM A307. All bolts and lock nuts must be hot dip galvanized per AASHTO M232. The lock nuts must have nylon or steel inserts. A stainless steel flat washer conforming to ASTM A240 Type 302 or 304, is required under both head and nut or under both nuts where threaded studs are used. High strength bolt installation shall conform to Article 505.04 (f) (2)d of the IDOT Standard Specifications for Road and Bridge Construction. Rotational capacity ("ROCAP") testing of bolts will not be required.

U-BOLTS AND EYEBOLTS: U-Bolts and Eyebolts must be produced from ASTM A276 Type 304, 304L, 316 or 316L, Condition A, cold finished stainless steel, or an equivalent material acceptable to the Engineer. All nuts for U-Bolts and Eyebolts must be lock nuts equivalent to ASTM A307 with nylon or steel inserts and hot dip galvanized per AASHTO M232. A stainless steel flat washer conforming to ASTM A240, Type 302 or 304, is required under each U-Bolt and Eyebolt lock nut.

GALVANIZING: All Steel Grating, Plates, Shapes and Pipe shall be Hot Dip Galvanized after fabrication in accordance with AASHTO M111. Painting is not permitted.

ANCHOR RODS: Shall conform to ASTM F1554 Gr. 105.

CONCRETE SURFACES: All concrete surfaces above an elevation 6" below the lowest final ground line at each foundation shall be cleaned and coated with Concrete Sealer in accordance with the Standard Specifications.

REINFORCEMENT BARS: Reinforcement Bars designated (E) shall be epoxy coated in accordance with the Standard Specifications.

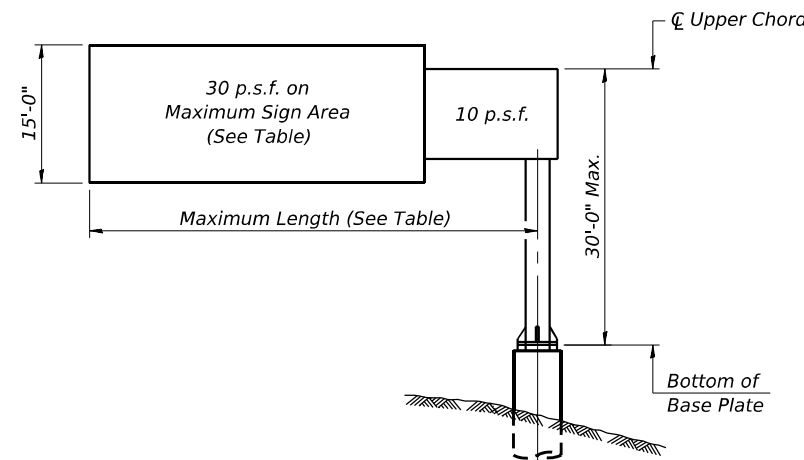
FOUNDATIONS: The contract unit price for Drilled Shaft Concrete Foundations shall include reinforcement bars complete in place.

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
OVERHEAD SIGN STRUCTURE CANTILEVER TYPE III-C-A	FOOT	80
DRILLED SHAFT CONCRETE FOUNDATIONS	Cu. Yds.	24

Structure Number	Station	Design Truss Type	Cantilever Length (L)	Elev. A	Dim. D	Ds	Total Sign Area
1C016S053L000.0-003	91+54.00	III-C-A	40'	756.16	19'	6'-6"	126 SF
1C016S053R000.0-000	97+20.00	III-C-A	40'	762.35	25'	6'-6"	126 SF

Truss Type	Maximum Sign Area	Maximum Length
I-C-A	170 Sq. Ft.	25 Ft.
II-C-A	340 Sq. Ft.	30 Ft.
III-C-A	400 Sq. Ft.	40 Ft.



DESIGN WIND LOADING DIAGRAM

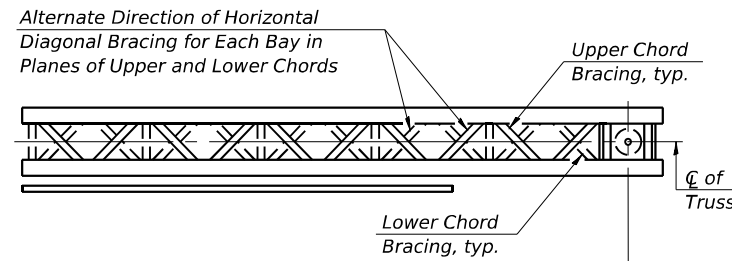
Parameters shown are basis for I.D.O.T. Standards
Installations not within dimensional limits shown
require special analysis for all components.

Note:

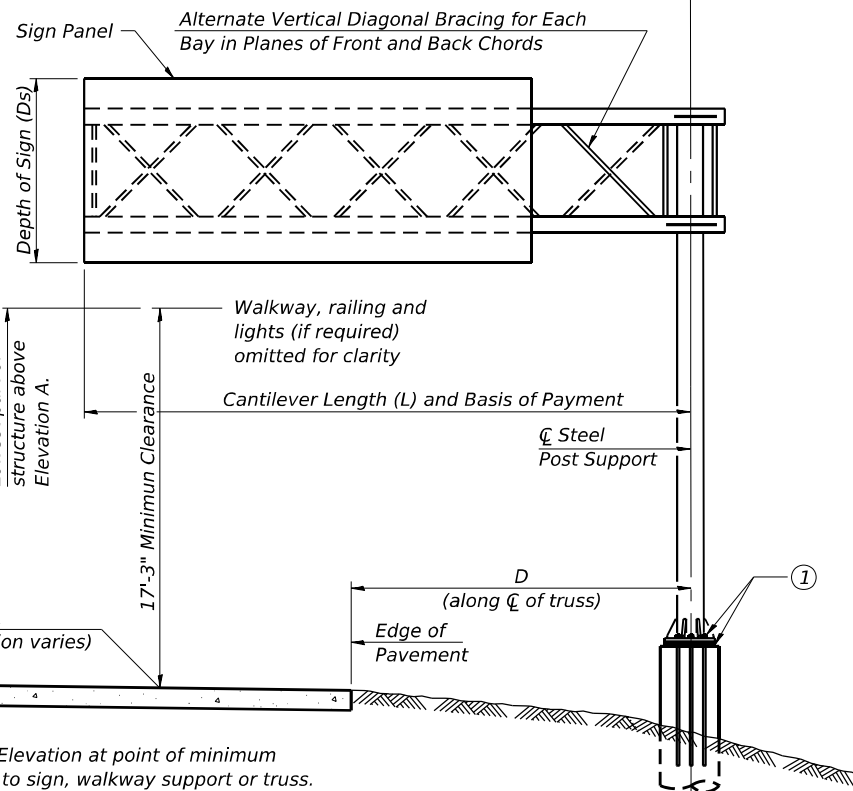
Trusses shall be shipped individually with adequate provision to prevent detrimental motion during transport. This may require ropes between horizontals and diagonals or energy dissipating (elastic) ties to the vehicle. The contractor is responsible for maintaining the configuration and protection of the trusses.

- ① After adjustments to level truss and insure adequate vertical clearance, all top and leveling nuts shall be tightened against the base plate with a minimum torque of 200 lb.-ft. Stainless steel mesh shall then be placed around the perimeter of the base plate. Secure to base plate with stainless steel banding.

* If M270 Gr. 50W (M222) steel is proposed, chemistry for plate to be used shall first be approved by the Engineer as suitable for galvanizing and welding.



TYPICAL PLAN
(Walkway not shown)



TYPICAL ELEVATION

Looking in Direction of Traffic

Sign support structures may be subject to damaging vibrations and oscillations when sign panels are not in place during erection or maintenance of the structure. To avoid these vibrations and oscillations, consideration should be given to attaching temporary blank sign panels to the structure.

Elev. A = Elevation at point of minimum clearance to sign, walkway support or truss.

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OSC-A-1

5-15-2023



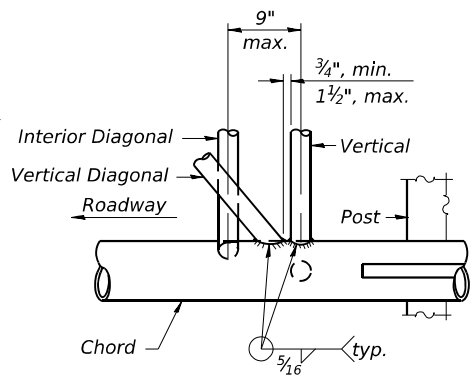
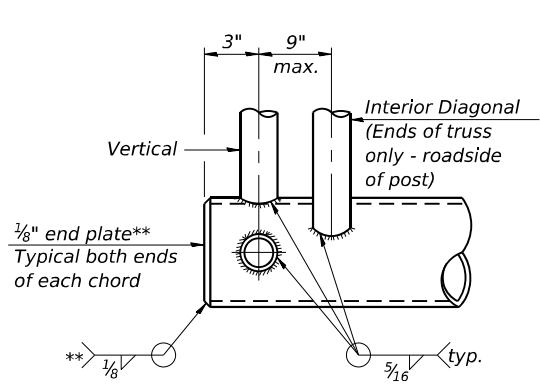
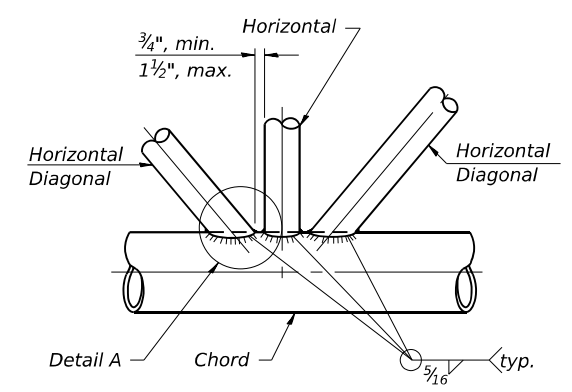
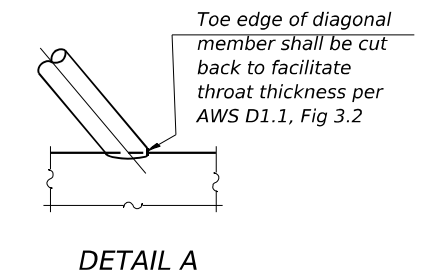
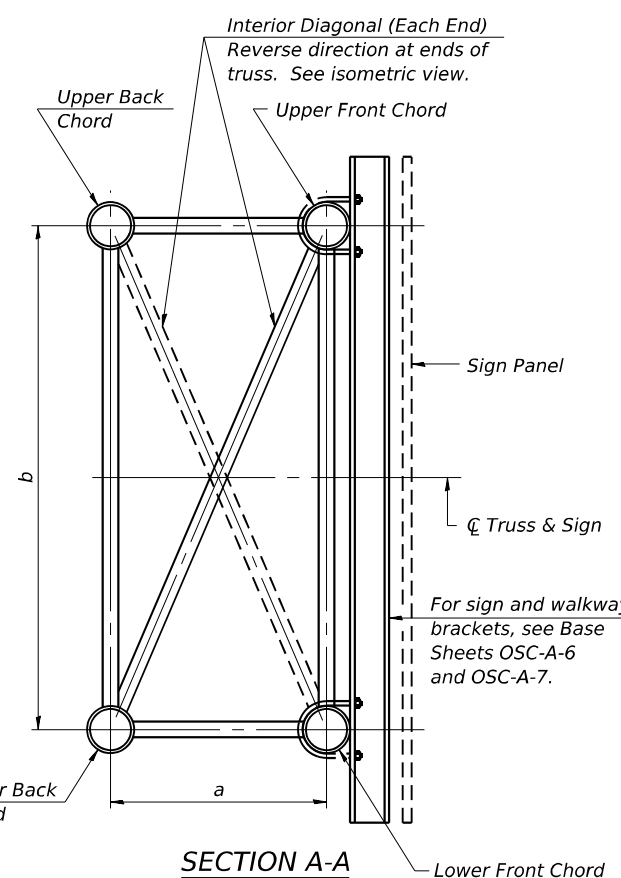
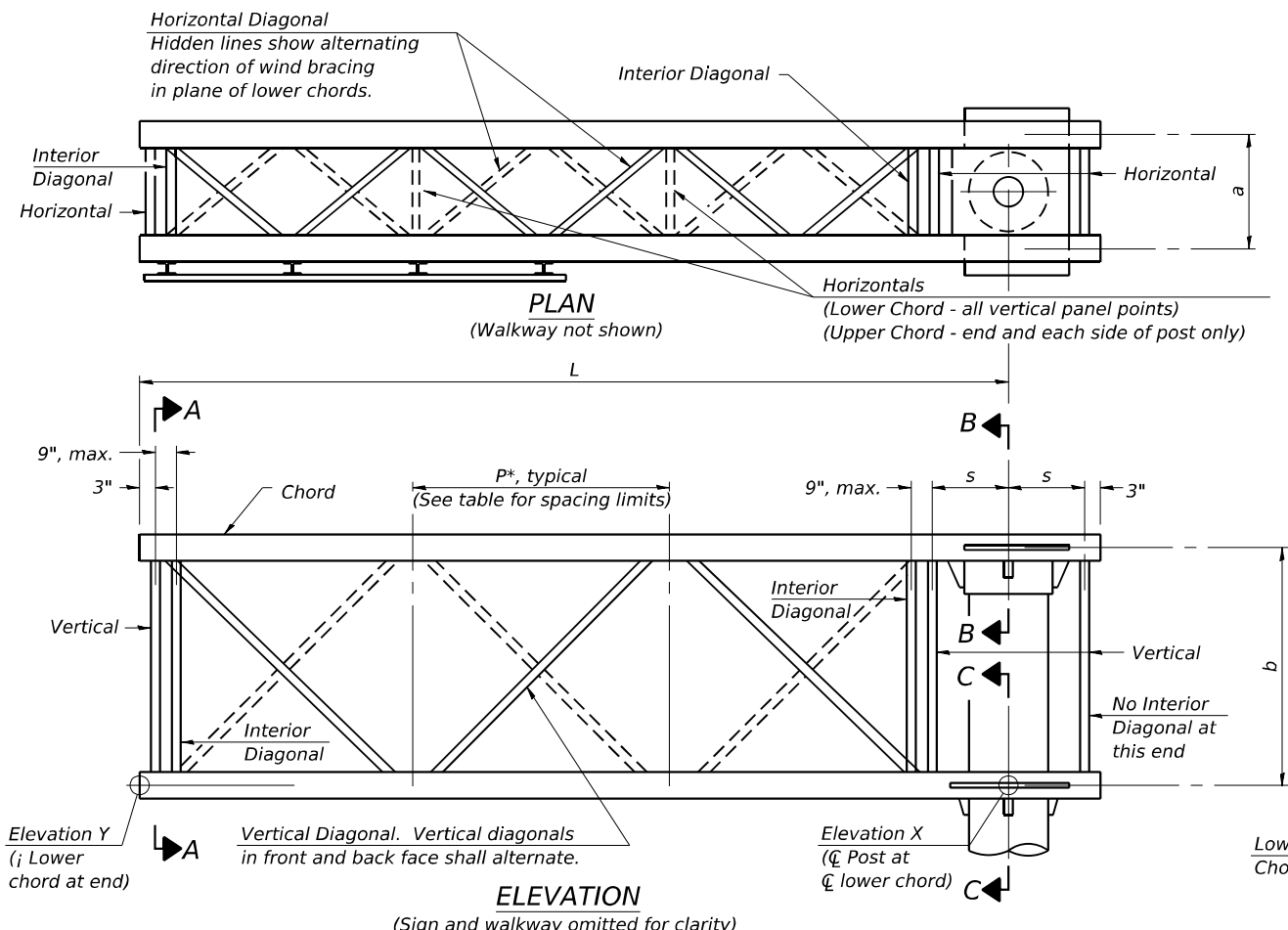
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PLOT SCALE = 0.1667' / in.	DRAWN - DJW	REVISED -
PLOT DATE = 12/13/2024	CHECKED - MAG	REVISED -
	DATE - 12/13/24	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CANTILEVER SIGN STRUCTURES - GENERAL PLAN & ELEVATION
ALUMINUM TRUSS & STEEL POST

SCALE: SHEET 14 OF 25 SHEETS STA. TO STA.

F.A.P. RTE. 342	SECTION 2018-100-BR	COUNTY COOK	TOTAL SHEETS 1351	SHEET NO. 476
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62N91	



Note:
There are twice as many horizontal diagonals as there are vertical diagonals.

For Section B-B and Section C-C, see Base Sheet OSC-A-3.

TRUSS UNIT TABLE

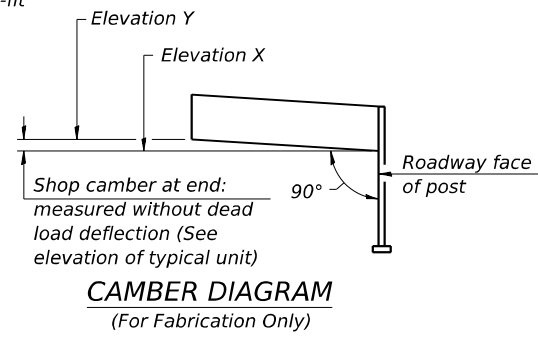
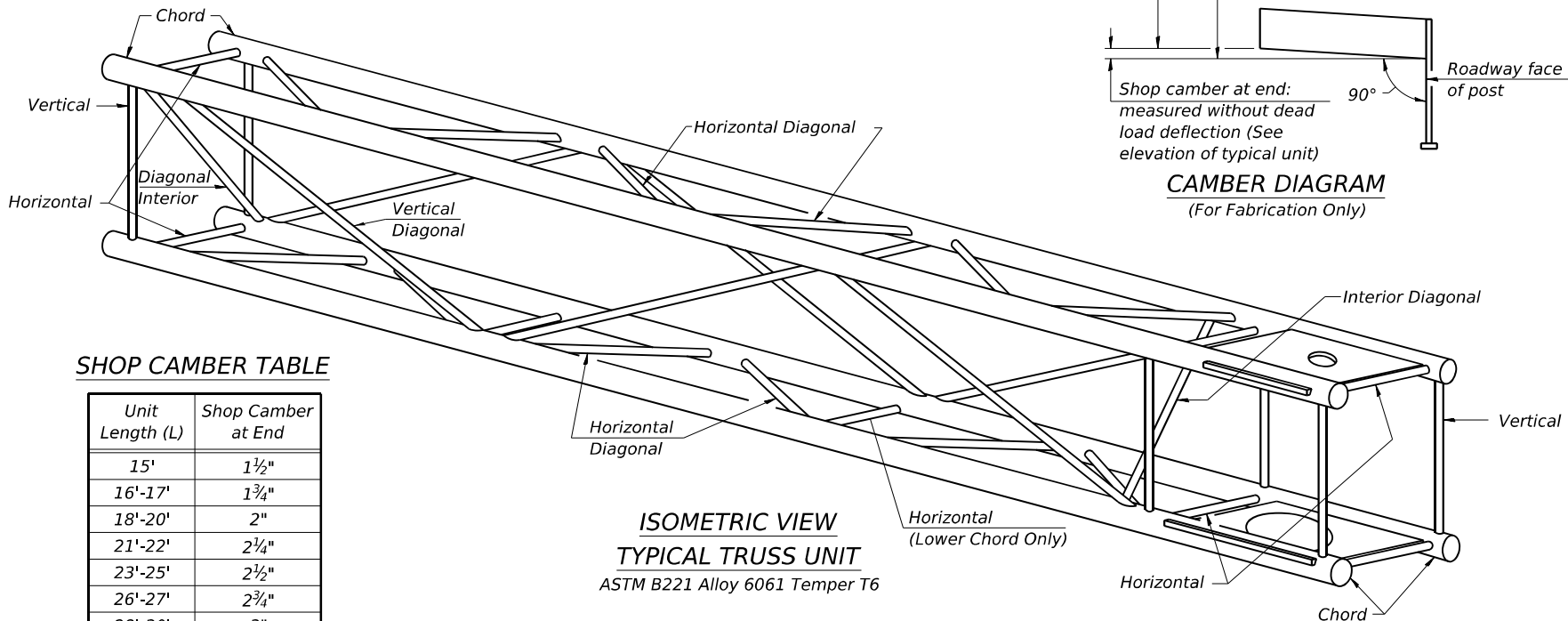
Truss Type	Dimension "a"	Dimension "b"	Dimension "s"	Limits for Panel Spacing (P)*	Up. & Low. Chord		Verticals; Horizontals; Vertical, Horizontal, and Interior Diagonals	
					O.D.	Wall	O.D.	Wall
I-C-A	24"	54"	16"	36" min. to 48" max.	5"	5/16"	2 1/2"	5/16"
II-C-A	36"	66"	21"	42" min. to 54" max.	6 1/2"	5/16"	3 1/4"	5/16"
III-C-A (35' Max.)	36"	84"	21"	48" min. to 66" max.	7"	3/8"	3 1/2"	3/8"
III-C-A (>35' to 40')	36"	84"	21"	48" min. to 66" max.	8"	3/8"	3 1/2"	3/8"

$$*P = \frac{L - 3"}{\# \text{ Panels}}$$

Structure Number	Station	Truss Type	Design Length (L)	Number of Panels Per Unit	Panel Length (P)*
1C016S053L000.0-003	91+54.00	III-C-A	40'	8	4'-9"
1C016S053R000.0-000	97+20.00	III-C-A	40'	8	4'-9"

SHOP CAMBER TABLE

Unit Length (L)	Shop Camber at End
15'	1 1/2"
16'-17'	1 3/4"
18'-20'	2"
21'-22'	2 1/4"
23'-25'	2 1/2"
26'-27'	2 3/4"
28'-30'	3"
31'-32'	3 1/4"
33'-35'	3 1/2"
36'-37'	4"
38'-40'	4 1/2"



OSC-A-2

5-15-2023



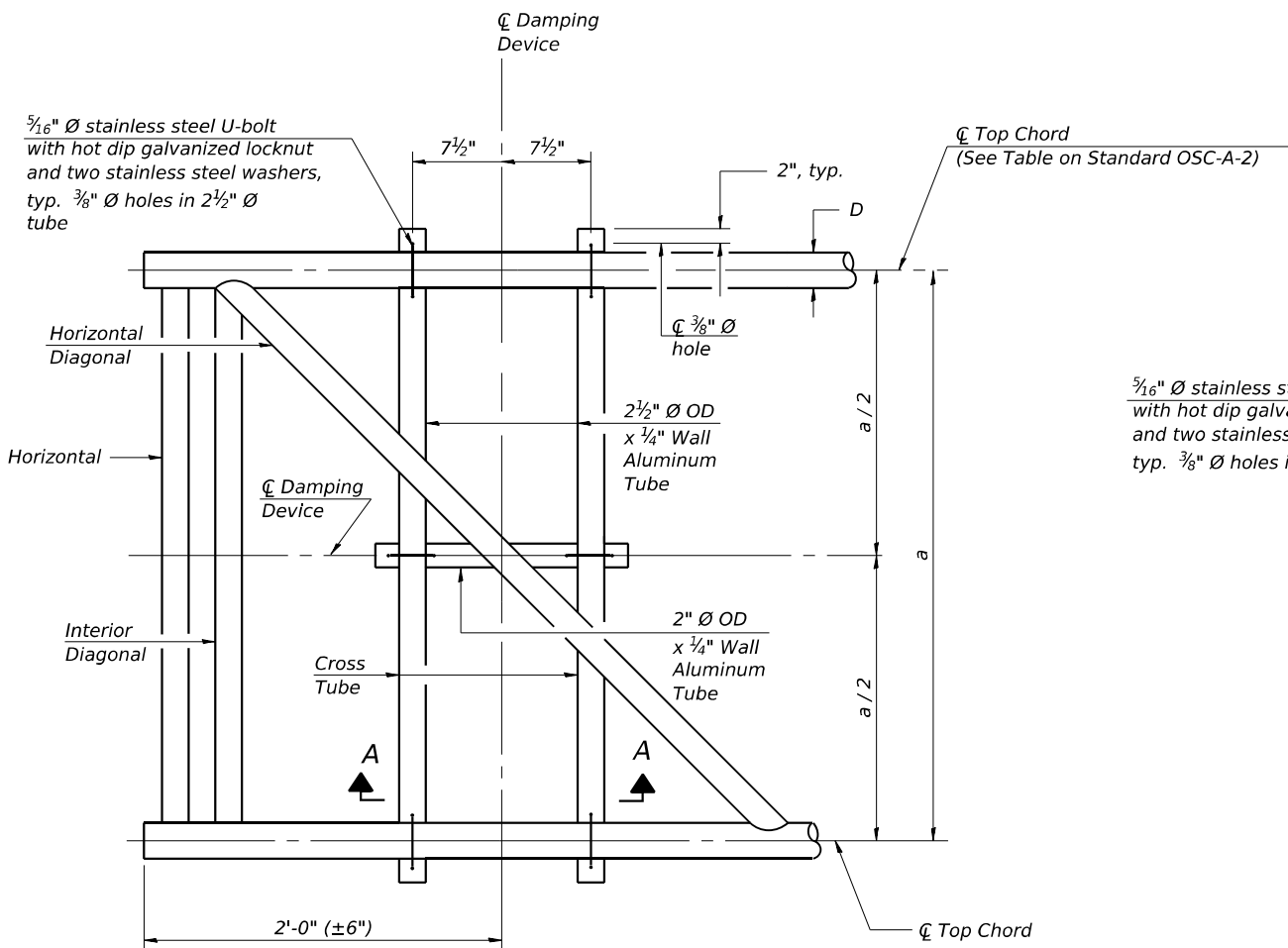
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PLOT SCALE = 0.1667' / in.	DRAWN - DJW	REVISED -
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	DATE - 12/13/24	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

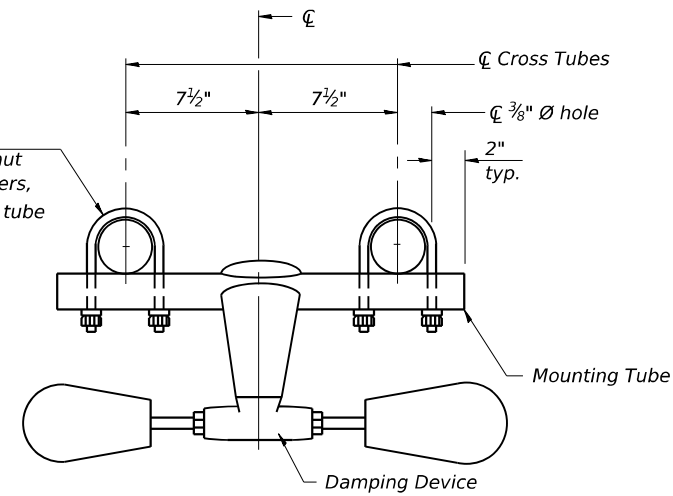
CANTILEVER SIGN STRUCTURES - TRUSS DETAILS
ALUMINUM TRUSS & STEEL POST

SCALE: SHEET 15 OF 25 SHEETS STA. TO STA.

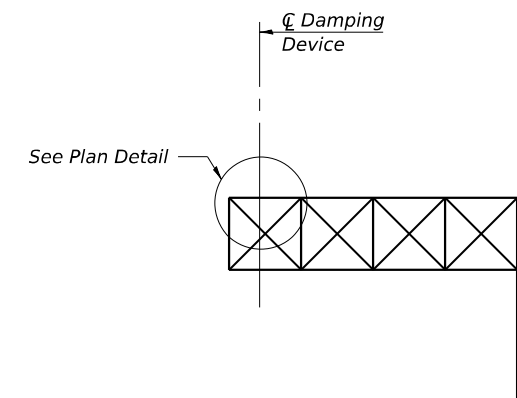
F.A.P. RTE. 342	SECTION 2018-100-BR	COUNTY COOK	TOTAL SHEETS 1351	SHEET NO. 477
CONTRACT NO. 62N91			ILLINOIS FED. AID PROJECT	



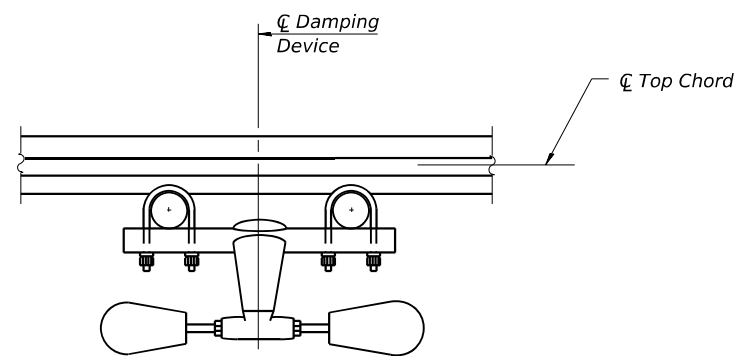
PLAN DETAIL



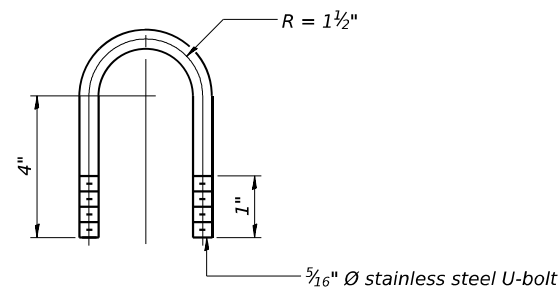
TRUSS DAMPING DEVICE CONNECTION DETAIL



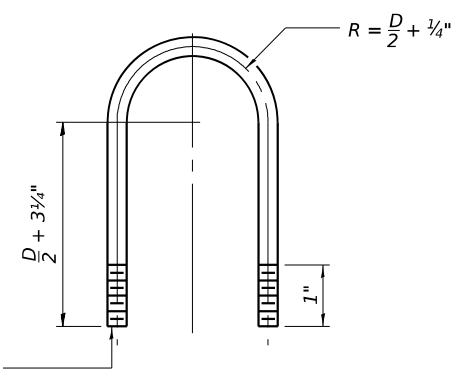
ELEVATION
Aluminum Cantilever Sign Structure



SECTION A-A



DAMPING DEVICE MOUNTING TUBE U-BOLT DETAIL (Typical)



TOP CHORD TO CROSS TUBE U-BOLT DETAIL (Typical)

GENERAL NOTES

- Damper: One damper per truss. (31 lbs. Stockbridge-Type Aluminum-29" minimum between ends of weights)
- Materials: Aluminum tubes shall be ASTM B221 alloy 6061 temper T6

MODEL: D:\464\1130\Drawings\CAD\Micros-SA\CAD_Sheets\C2-D162N91-1-18-24\sign structure details-SA.dgn

OSC-A-D

5-15-2023



USER NAME = StevenB	DESIGNED - TCH	REVISED -
	DRAWN - DJW	REVISED -
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PLOT DATE = 12/13/2024	DATE - 12/13/24	REVISED -

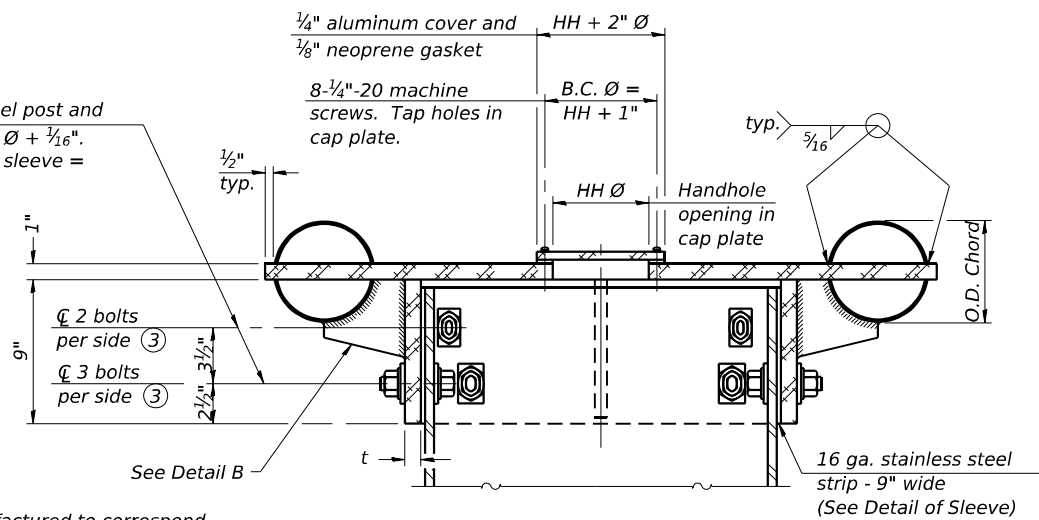
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CANTILEVER SIGN STRUCTURE
DAMPING DEVICE

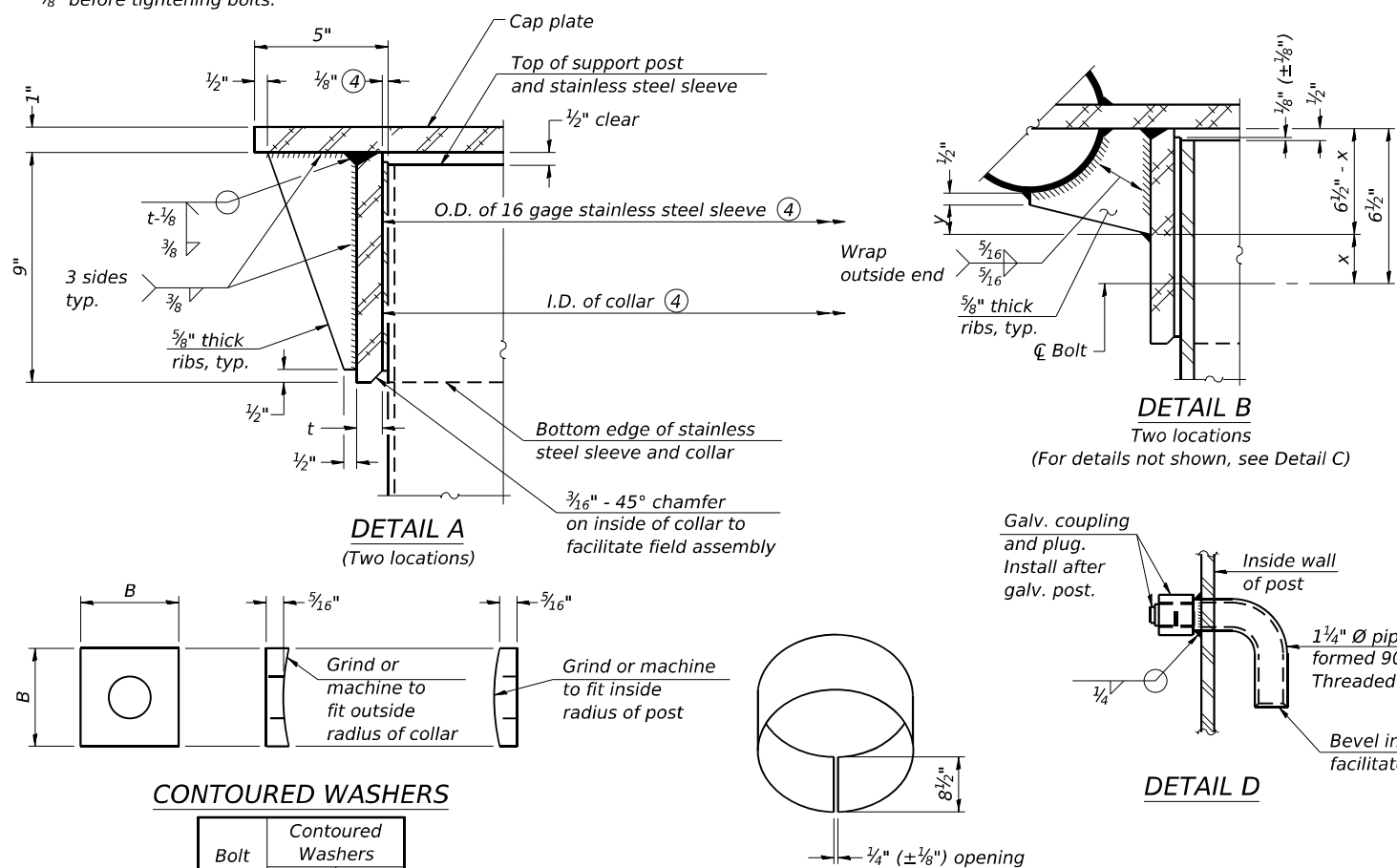
SCALE: SHEET 16 OF 25 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
342	2018-100-BR	COOK	1351	478
			CONTRACT NO. 62N91	
ILLINOIS FED. AID PROJECT				

Holes in galvanized steel post and aluminum collar = bolt $\emptyset + \frac{1}{16}$ ".
Holes in stainless steel sleeve = bolt $\emptyset + \frac{3}{16}$ ".



④ Collar I.D. shall be manufactured to correspond to O.D. of actual galvanized post and stainless steel sleeve plus $\frac{1}{8}$ " ($\pm \frac{1}{16}$ "). Maximum gap between post and collar at any location equals $\frac{1}{8}$ " before tightening bolts.



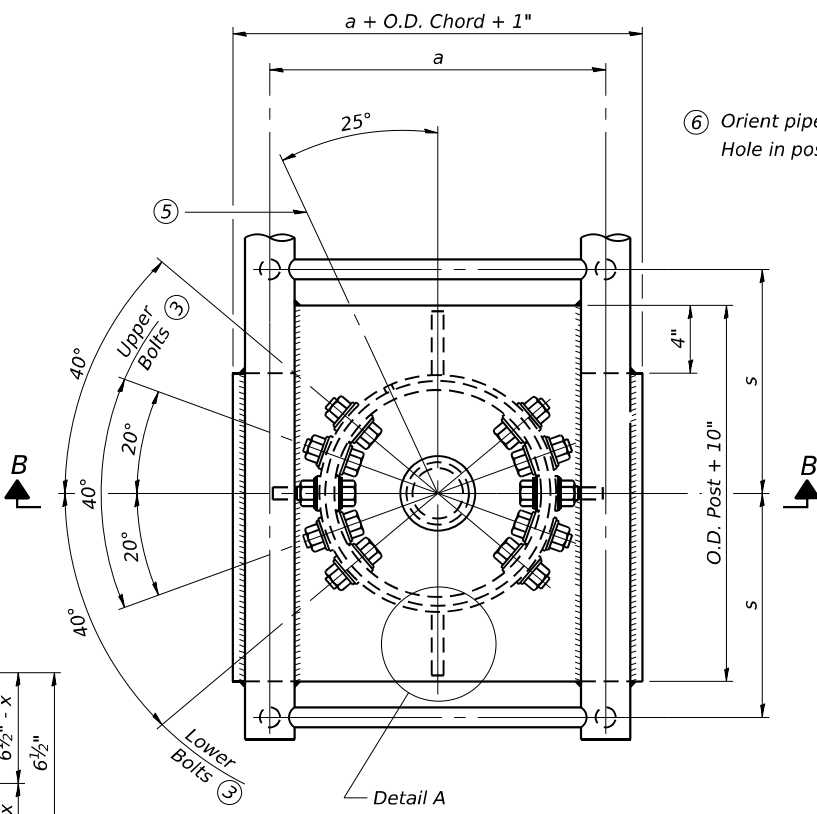
CONTOURED WASHERS

Bolt Size	Contoured Washers	
	Hole Dia.	B
$\frac{7}{8}$ "	1"	2 $\frac{1}{2}$ "
1"	1 $\frac{1}{8}$ "	3"
1 $\frac{1}{4}$ "	1 $\frac{3}{8}$ "	3 $\frac{1}{4}$ "

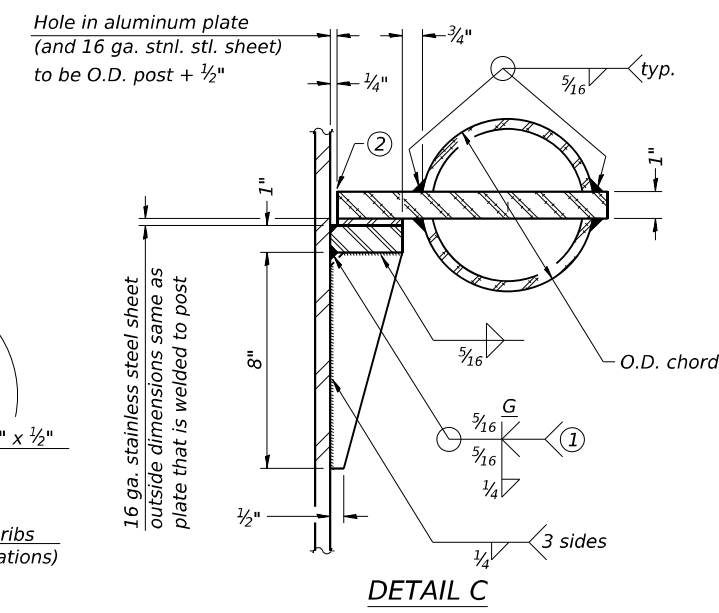
DETAIL OF STAINLESS STEEL SLEEVE

Weld to post after galvanizing. (Prepare post surface to insure tight, uniform fit and allow welding.) Welds to be 1 $\frac{1}{2}$ " long at 6" cts. along top edge and at $\frac{1}{4}$ " opening.

Truss Type	Post Size	Upper & Lower Connection Bolt Diameter ③	Lower Juncture Bolt Spacing Dimension "c" ③	Opening in Cap Plate "HH"	Collar Thickness (t)	Side Ribs
I-C-A	16" \emptyset (83#/')	$\frac{7}{8}$ "	3 $\frac{1}{4}$ "	8"	$\frac{5}{8}$ "	1 $\frac{3}{4}$ " x 2 $\frac{1}{4}$ "
II-C-A	24" \emptyset (125#/')	1"	3 $\frac{1}{2}$ "	12"	$\frac{7}{8}$ "	2" x 1 $\frac{1}{4}$ "
III-C-A (35' max.)	24" \emptyset (125#/')	1 $\frac{1}{4}$ "	3 $\frac{1}{2}$ "	12"	$\frac{7}{8}$ "	2" x 1"
III-C-A (>35' to 40')	24" \emptyset (171#/')	1 $\frac{1}{4}$ "	3 $\frac{1}{2}$ "	12"	$\frac{7}{8}$ "	2" x 1"

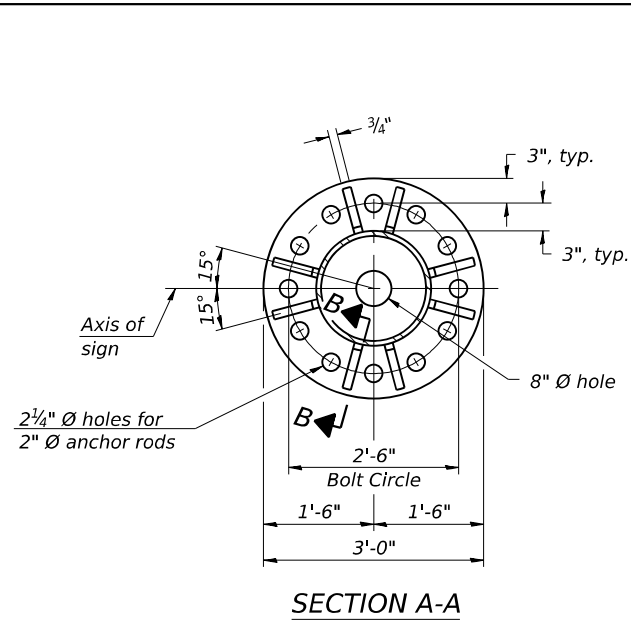


SECTION THRU POST ABOVE LOWER CHORDS

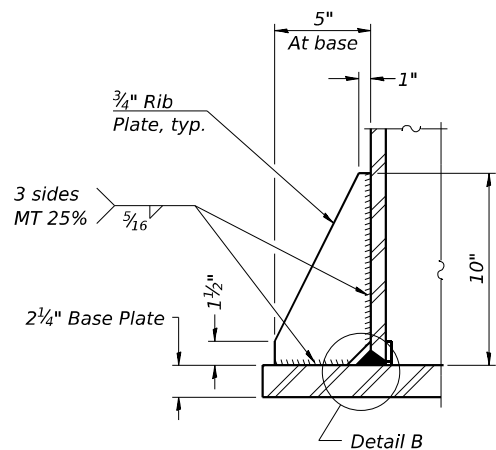


- ① Grind top if required to fully seat aluminum plate and stainless steel sheet.
- ② After tightening lower connection bolts, fill gap with non-hardening, silicone caulk suitable for exterior exposure and acceptable to the Engineer. Cost is included in Overhead Sign Structure Cantilever.
- ③ Upper and lower connection bolts in collar and bolts at lower chord connection shall be high strength with matching locknuts. Connection bolts shall have 2 stainless steel flat washers each.

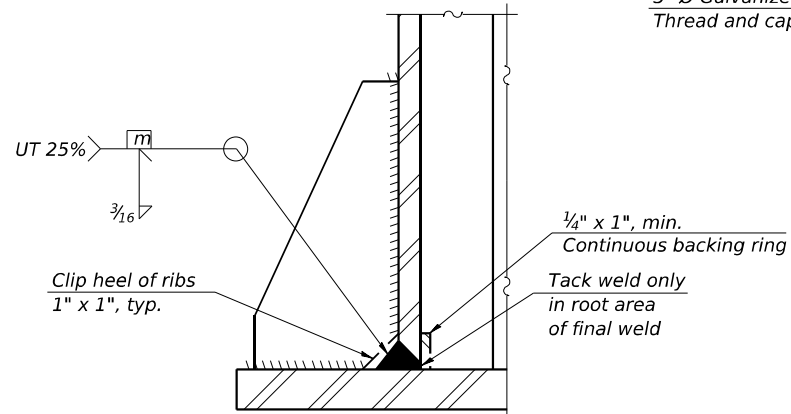
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	- DJW	-
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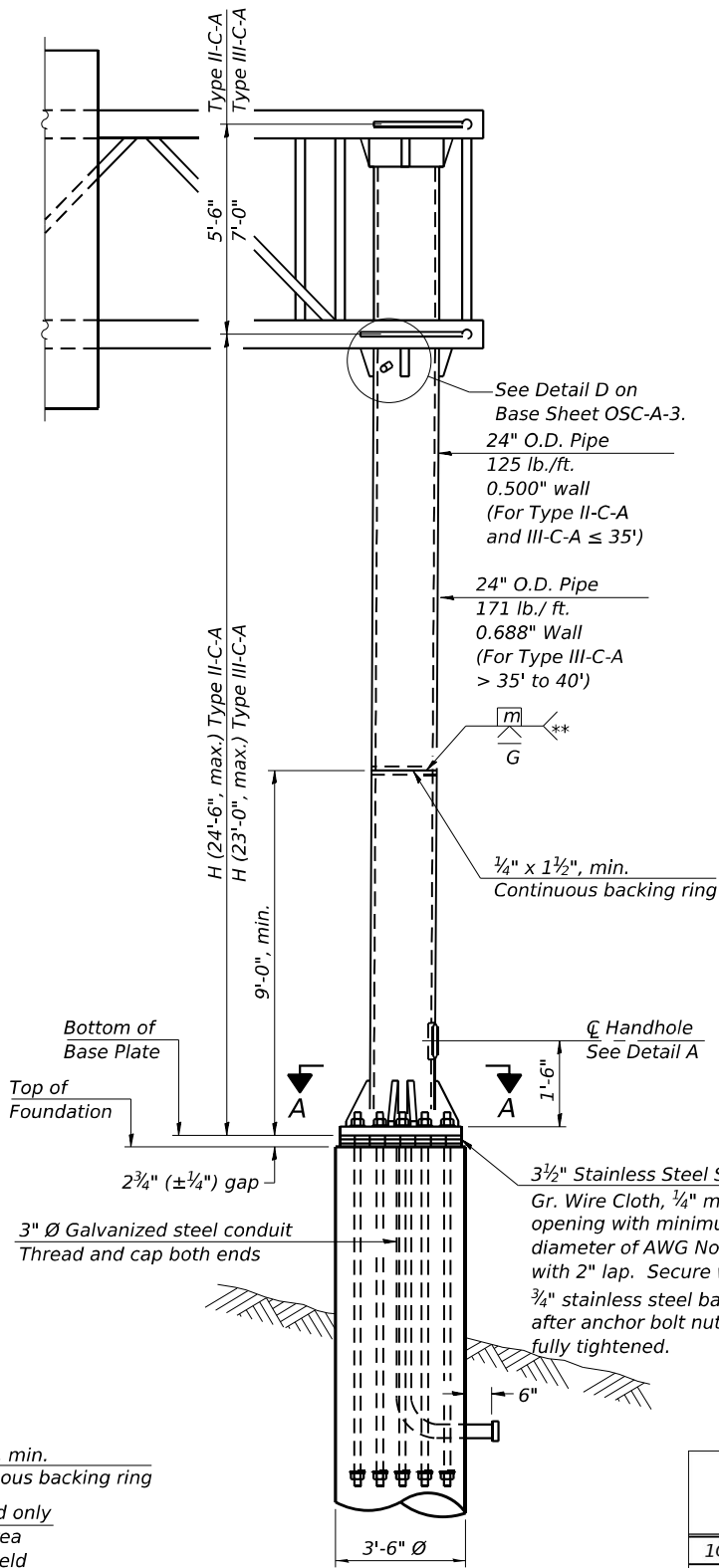
SECTION A-A



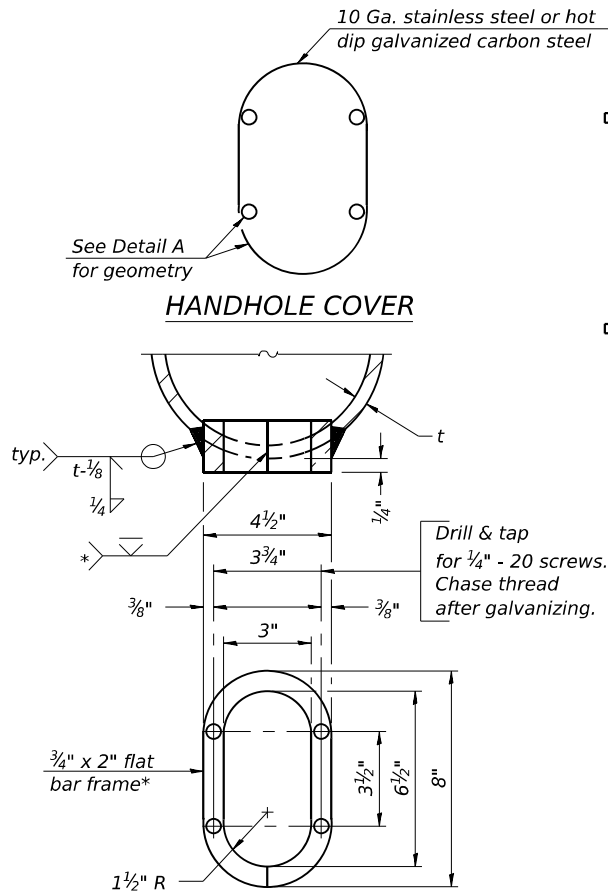
SECTION B-B



DETAIL B
(Typical rib)



FRONT ELEVATION
For Foundation Details
see Base Sheet OSC-A-9.

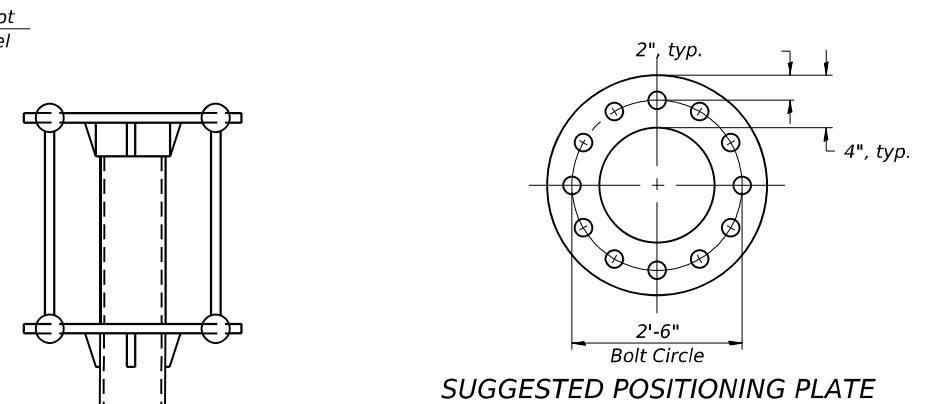


DETAIL A

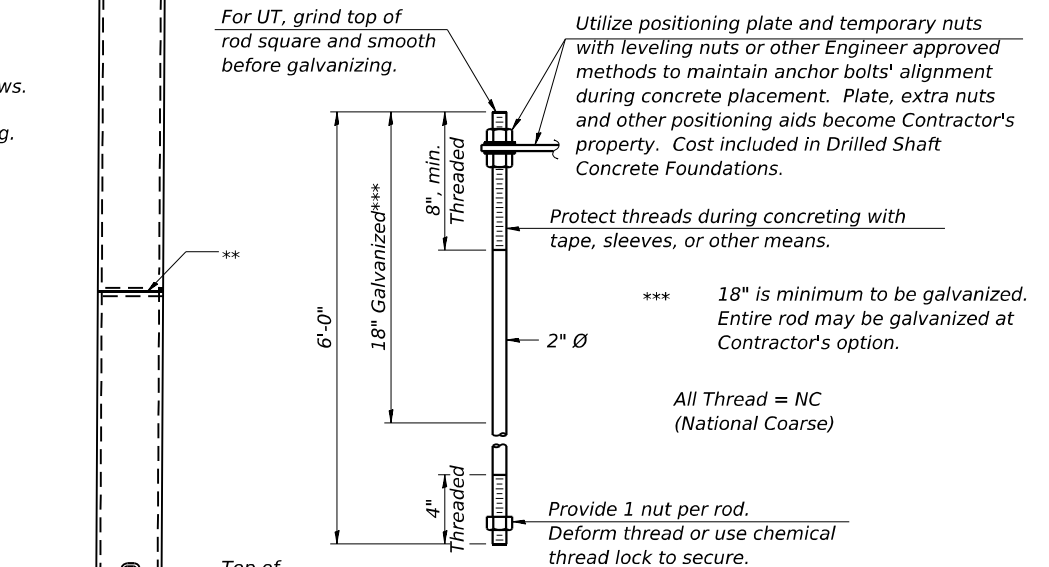
- * Bent bars may be butt welded top and bottom or bottom only. In lieu of fabricated handhole frame as shown, may cut from 2" plate (rolling direction vertical). All cut faces to be ground to ANSI Roughness of 500µ in or less.
- ** Butt welded joint in post is only allowed for post heights (H) over 20 ft. in length. If used, weld procedure must be preapproved by Engineer and joint shall receive 100% RT or UT (tension criteria) at Contractor's expense.

Structure Number	Station	H
1C016S053L000.0-003	91+54.00	21'-10 7/16"
1C016S053R000.0-000	97+20.00	22'-3"

Note: "H" based on 15'-0" or actual sign height, whichever is greater.



SUGGESTED POSITIONING PLATE



ANCHOR ROD DETAIL

Anchor rods shall conform to ASTM F1554 Grade 105. Galvanize the upper 18" (minimum***) and associated AASHTO M291, Grade A, C or DH heavy hex nuts and hardened washers per AASHTO M232. No welding shall be permitted on rods. Provide a nut at bottom, a hexagon locknut and washer above base plate and a leveling nut and washer below base plate. Nuts shall each be tightened with 200 lb.-ft. minimum torque against base plate. Before or after threading, but before galvanizing, each anchor rod shall be ultrasonically tested (UT) by a Level II or III inspector, qualified in accord with ANSI guidelines, to insure no rejectable flaws exist in the upper 18" (tension criteria). Cost of testing included in Drilled Shaft Concrete Foundations.

SIDE ELEVATION

OSC-A-5

5-15-2023



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	DATE - 12/13/24	REVISED -

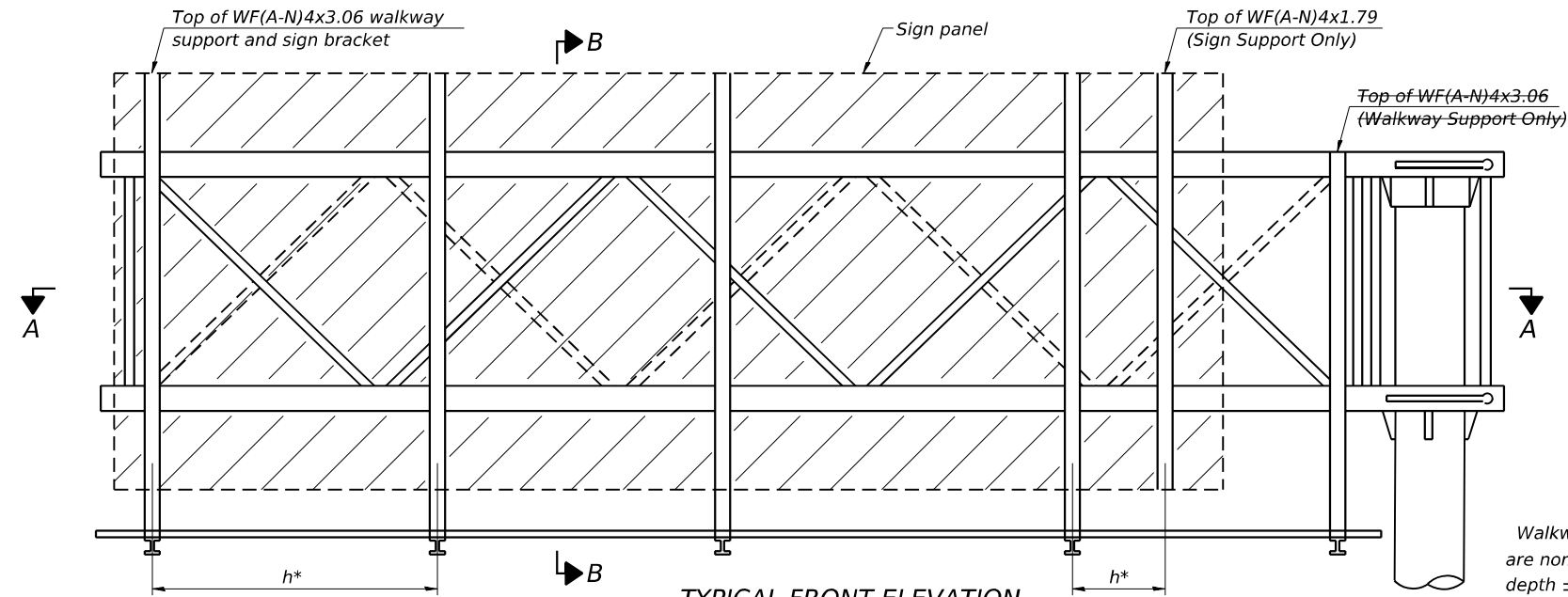
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CANTILEVER SIGN STRUCTURES - TYPE II-C-A & III-C-A
TRUSS SUPPORT POST - ALUMINUM TRUSS & STEEL POST

SCALE: SHEET 18 OF 25 SHEETS STA. TO STA.

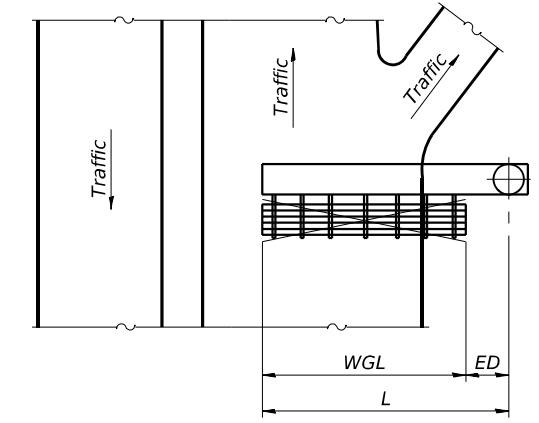
F.A.P. RTE. 342	SECTION 2018-100-BR	COUNTY COOK	TOTAL SHEETS 1351	SHEET NO. 480
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62N91	

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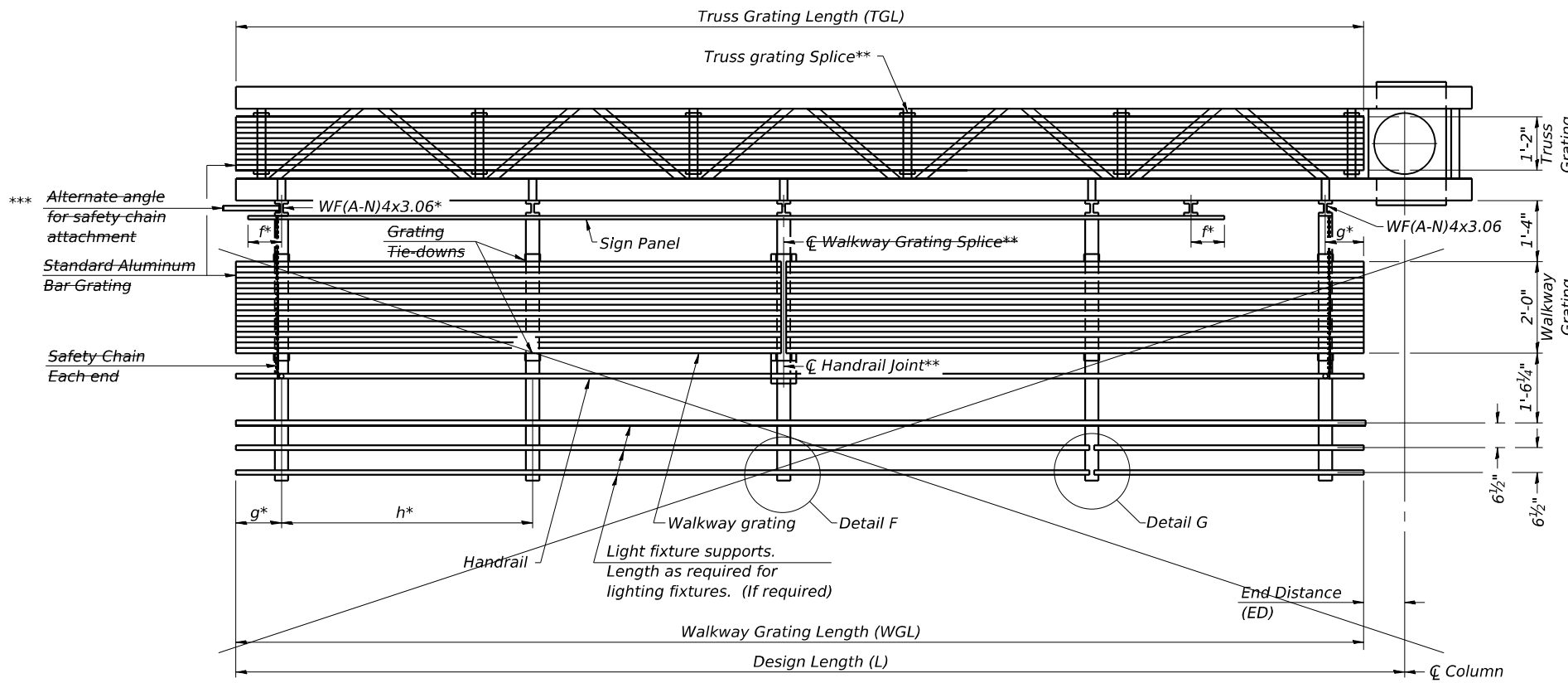


TYPICAL FRONT ELEVATION
With lights and handrail omitted for clarity.

Walkway and truss grating dimensions are nominal and may vary (width ±½", depth ±½") based on available standard widths.



PLAN
WALKWAY AND HANDRAIL SKETCH
(Road plan beneath truss varies)



SECTION A-A

Truss grating to facilitate inspection shall run full length of cantilevers. Cost of truss grating is included in Overhead Sign Structure Cantilever.

Handrail and walkway grating shall span a minimum of three brackets between splices.
** Use and location of handrail joints or grating splices are optional, based on lengths needed and material availability.

$$TGL = L - \left(\frac{\text{Post O.D.}}{2} + 6" \right)$$

Structure Number	Station	WGL	ED	TGL
1C016S053L000.0-003	91+54.00	N/A	N/A	38'-6"
1C016S053R000.0-000	97+20.00	N/A	N/A	38'-6"

Notes:
 * Space walkway brackets WF(A-N)4x3.06 and sign brackets WF(A-N)4x1.79 for efficiency and within limits shown:
 f = 12" maximum, 4" minimum (End of sign to i of nearest bracket)
 g = 12" maximum, 4" minimum (End of walkway to i of nearest bracket)
 h = 6'-0" maximum (i to i sign and/or walkway support brackets, WF(A-N)4x1.79 or WF(A-N)4x3.06)
 *** If walkway bracket at safety chain location is behind sign, add angle to bracket. See alternate safety chain attachment on base sheet OSC-A-8
 For details of sign placement, sign/walkway brackets, truss and walkway gratings, grating splices and Section B-B, see Base Sheet OSC-A-7.
 For details of handrail, handrail joint, safety chain and Details F and G, see Base Sheet OSC-A-8.

BRACKET TABLE

WF(A-N)4x1.79 or WF(A-N)4x3.06 ASTM B308, Alloy 6061-T6		
Sign Width		Number Brackets Required
Greater Than	Less Than or Equal To	
	8'-0"	2
8'-0"	14'-0"	3
14'-0"	20'-0"	4
20'-0"	26'-0"	5
26'-0"	32'-0"	6

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OSC-A-6

5-15-2023



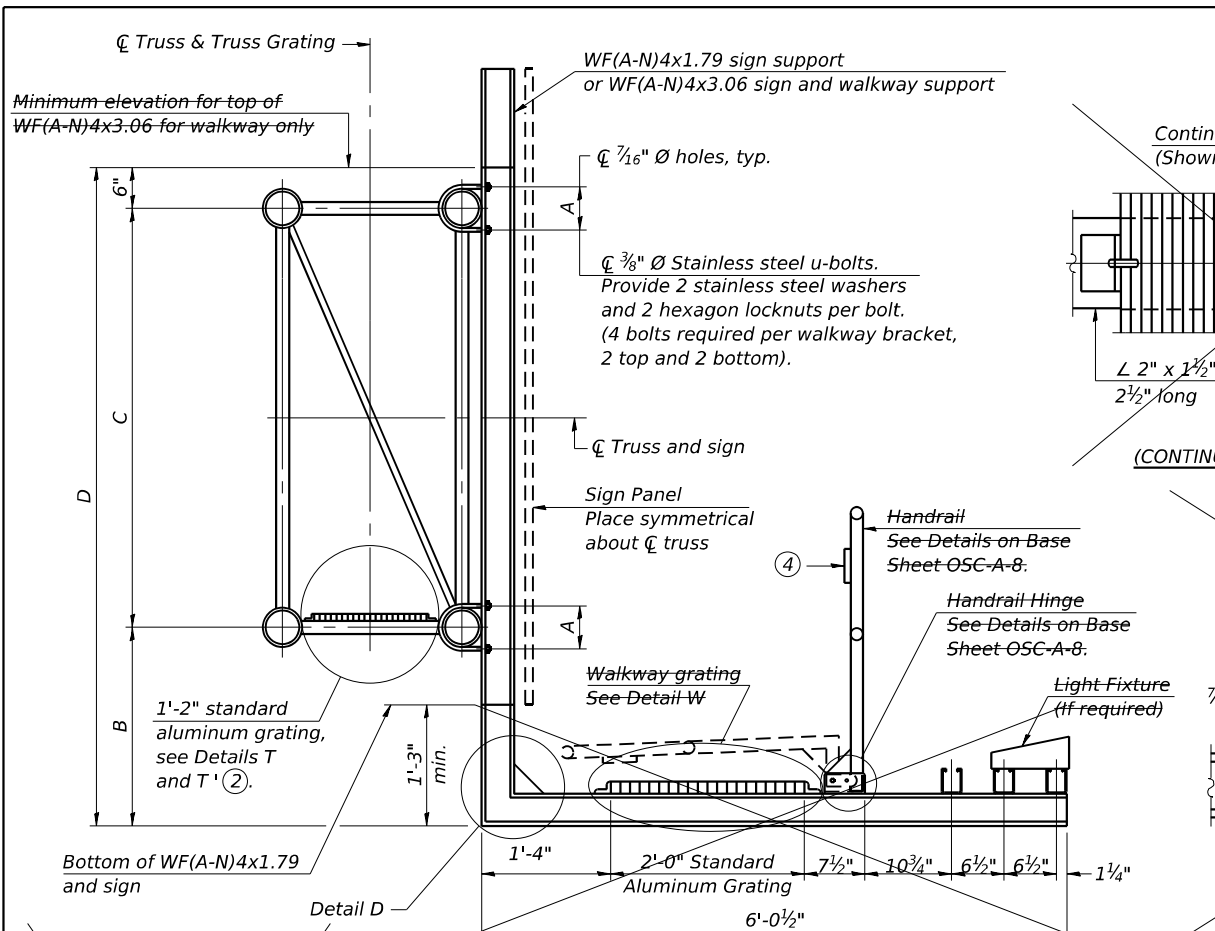
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CANTILEVER SIGN STRUCTURES - ALUMINUM WALKWAY
DETAILS - ALUMINUM TRUSS & STEEL POST

SCALE: SHEET 19 OF 25 SHEETS STA. TO STA.

F.A.P. RTE. 342	SECTION 2018-100-BR	COUNTY COOK	TOTAL SHEETS 1351	SHEET NO. 481
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62N91	

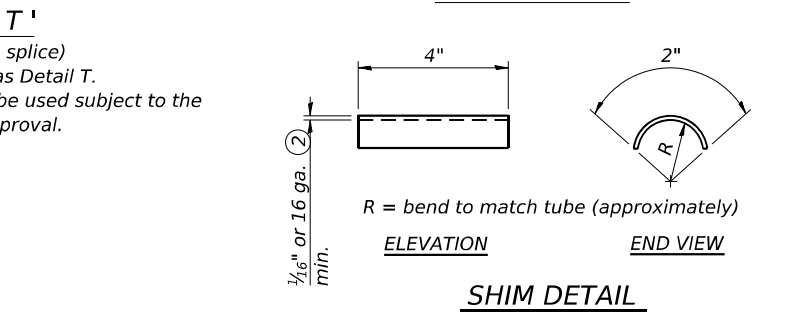
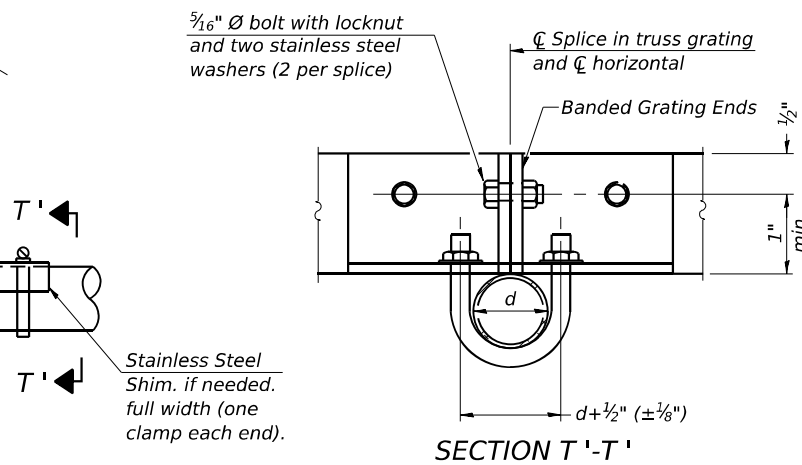


SPECIFICATIONS FOR STANDARD ALUMINUM GRATING

Main Bearing Bars (MBB) shall be 3/16" x 1 1/2" on 1 3/16" centers and conform to ASTM B211 Alloy 6061-T6.
 Cross bars (CB) shall be 3/16" x 1 1/2" on 4" centers and conform to ASTM B221 Alloy 6063-T5 or 6061-T6.

OR

Aluminum Grating with modified "t" sections for main bearing bars shall meet the following requirements:
 Main bars shall conform to ASTM B221 Alloy 6061-T6 and have a minimum section modulus equal to 0.0705 in.³ per bar, a depth of 1 1/2", spaced on 1 3/16" centers.
 Cross bars shall conform to ASTM B221 Alloy 6063-T5 or T-42 and spaced on 4" centers.

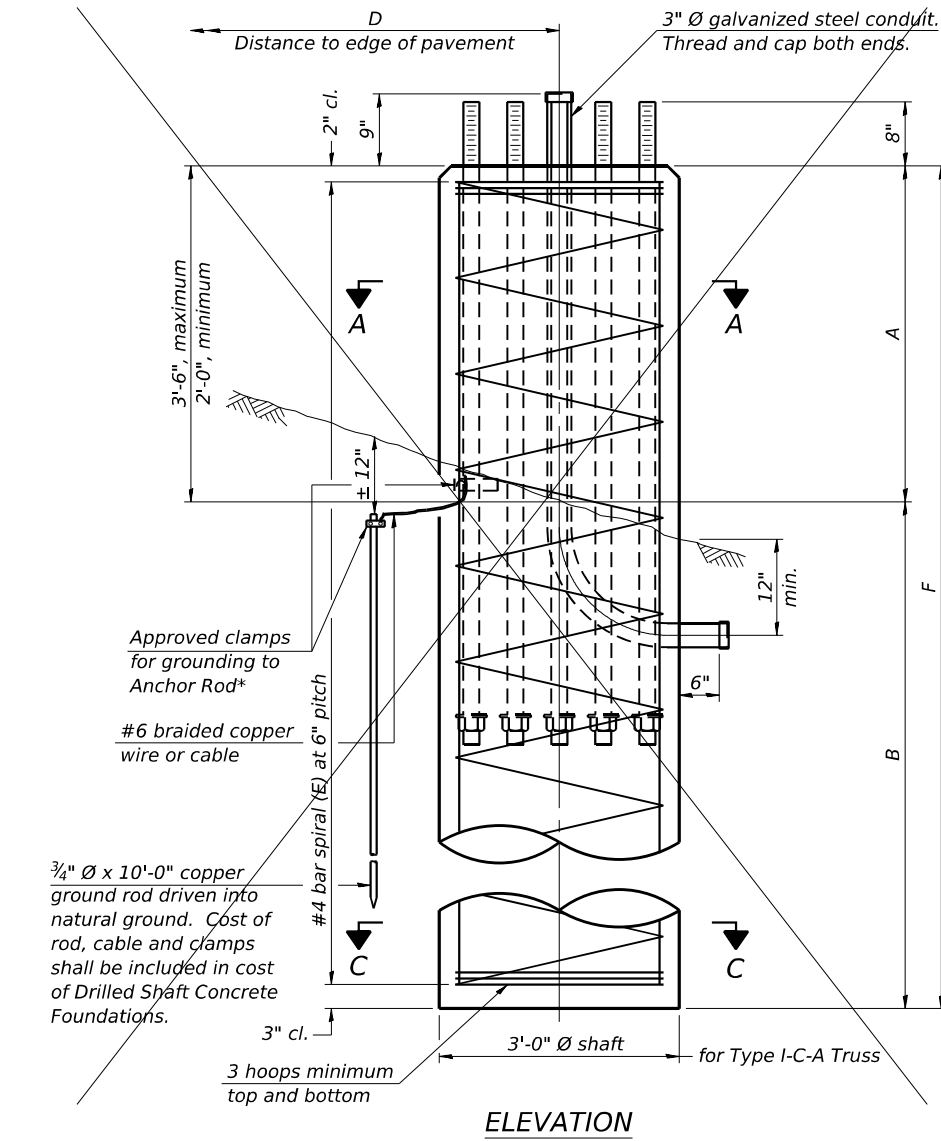


- Drilling holes in grating may be done in shop or field, based on Contractor's preference and subject to accurate alignment.
- Stainless steel shims shall be placed as shown in Detail T if needed to compensate for alignment variations between horizontal and diagonal pipes beyond adjustment provided by angles. Thicker shims may be used subject to shims performing properly.
- If Handrail Joint present, weld angle to WF(A-N)4 and 1/4" extension bars. (See Base Sheet OSC-A-8.)
- 1/2" x 1/2" x 2" welded to handrail posts to protect locations that contact grating.
- Tube to grating gap may vary from 0 to 1/2", max. to align walkway, allow for camber, etc.
- Based on actual sign height, Ds, given on OSC-A-1.

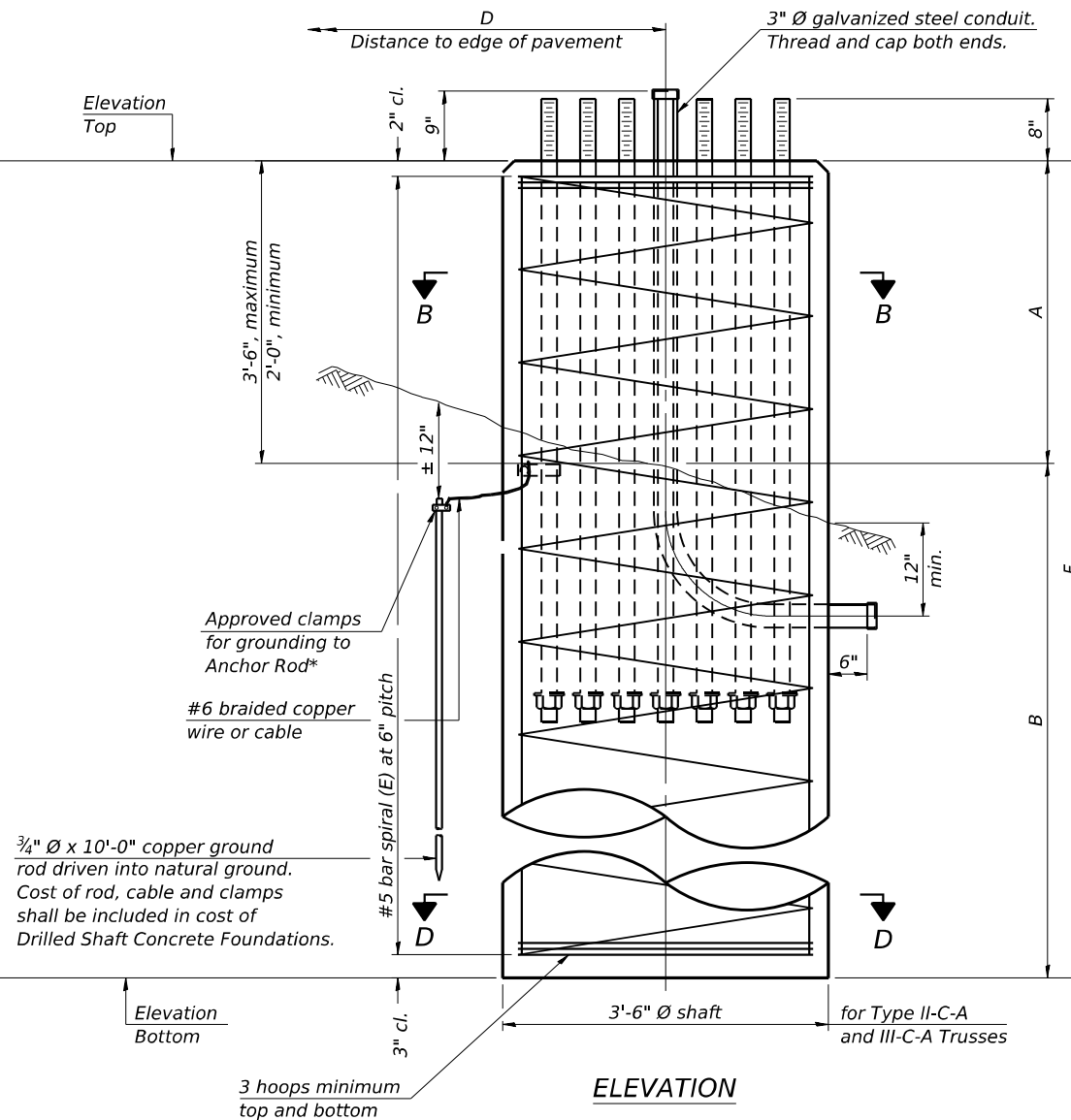
Structure Number	Station	A	ⓅB	C	ⓅD
1C016S053L000.0-003	91+54.00	8 3/8"	0'-0"	7'-0"	7'-6"
1C016S053R000.0-000	97+20.00	8 3/8"	0'-0"	7'-0"	7'-6"

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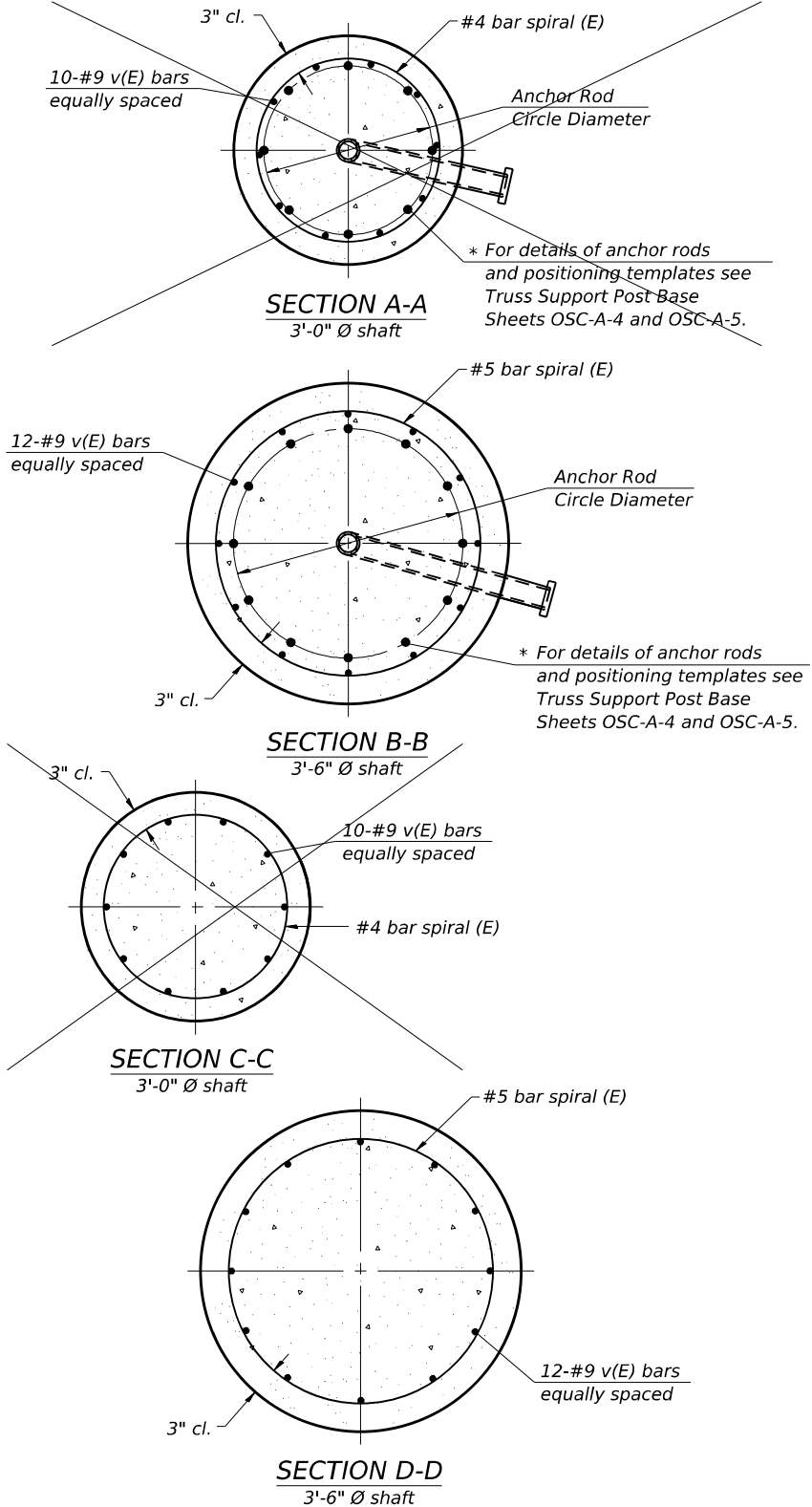
* Grind anchor rod to bright finish at ground clamp location before installing clamp.



ELEVATION



ELEVATION



SECTION A-A
3'-0" Ø shaft

SECTION B-B
3'-6" Ø shaft

SECTION C-C
3'-0" Ø shaft

SECTION D-D
3'-6" Ø shaft

NOTES:
 The foundation dimensions shown in the Foundation Design Table are based on the presence of mostly cohesive soils with an average Unconfined Compressive Strength (Qu) of at least 1.25 tsf, which must be determined by previous soil investigations at the jobsite. When other conditions are indicated, the boring data will be included in the plans and the foundation dimensions shown in the Foundation Data Table will be the result of site specific designs.
 If the conditions encountered are different than those indicated, the Contractor shall notify the Engineer to determine if the foundation dimensions need to be modified. If dimensions "B" or "F" are revised by more than 12" by the Contractor, "as-built" plans shall be prepared and submitted to the District Bureau of Operations for future reference.
 No sonotubes or decomposable forms shall be used below the lower conduit entrance. Permanent metal forms or other shielding may not be left in place below that elevation without the Engineer's written permission.
 Concrete shall be placed monolithically, without construction joints.
 Backfill shall be placed per Article 502 of Standard Specification and prior to erection of support column.
 A normal surface finish followed by a Concrete Sealer application will be required on concrete surfaces above the lowest elevation 6" below finished ground line. Cost included in "Drilled Shaft Concrete Foundation".

Truss Type	Post Base Sheet	Maximum Cantilever Length (ft)	Maximum Total Sign Area (sq ft)	Shaft Diameter (ft)	"B" Depth (ft)	Anchor Rods		Anchor Rod Circle Diameter (in)
						No.	Diameter (in)	
I-C-A	OSC-A-4	25	170	3.0	16.0	8	2	22
II-C-A	OSC-A-5	30	170	3.5	17.0	12	2	30
II-C-A	OSC-A-5	30	340	3.5	21.5	12	2	30
III-C-A	OSC-A-5	35	170	3.5	19.0	12	2	30
III-C-A	OSC-A-5	35	250	3.5	22.5	12	2	30
III-C-A	OSC-A-5	35	400	3.5	26.5	12	2	30
III-C-A	OSC-A-5	40	400	3.5	32.0	12	2	30

Structure Number	Station	Truss Type	Shaft Diameter	Elevation Top	Elevation Bottom	Qu	A	B	F	Class DS Concrete Cubic Yards
1C0165053L000.0-003	91+54.00	III-C-A	3'-6"	756.56	722.56	2.2	2'-0"	32'-0"	34'-0"	12.12
1C0165053R000.0-000	97+20.00	III-C-A	3'-6"	762.37	728.37	2.4	2'-0"	32'-0"	34'-0"	12.12

OSC-A-9

5-15-2023



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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CANTILEVER SIGN STRUCTURES - DRILLED SHAFT
ALUMINUM TRUSS & STEEL POST

SCALE: SHEET 21 OF 25 SHEETS STA. TO STA.

F.A.P. RTE. 342	SECTION 2018-100-BR	COUNTY COOK	TOTAL SHEETS 1351	SHEET NO. 483
CONTRACT NO. 62N91				
ILLINOIS FED. AID PROJECT				

GENERAL NOTES

SPECIFICATIONS:

DESIGN: AASHTO Standard Specifications for Structural Supports for ② Highway Signs, Luminaires and Traffic Signals. ("AASHTO Specifications")

CONSTRUCTION: Current (at time of letting) Illinois Department of Transportation Standard Specifications for Road and Bridge Construction, Supplemental Specifications and Special Provisions. ("Standard Specifications")

LOADING: 90 M.P.H. WIND VELOCITY

WALKWAY LOADING: Dead load plus 500 lbs. concentrated live load.

MINIMUM CLEARANCE: 3" greater than bridge members at all locations. (All Obstructions)

WELDING: All welds to be continuous unless otherwise shown. All welding to be done in accordance with current AWS D1.1 Structural Welding Code (Steel) and the Standard Specifications.

MATERIALS: All Structural Steel Pipe shall be ASTM A53 Grade B with a minimum yield of 35,000 p.s.i., or A500 Grade B or C with a minimum yield of 46,000 p.s.i. If A500 pipe is substituted for A53, then the outside diameter shall be as detailed and wall thickness greater than or equal to A53. All Structural Steel Plates and Shapes shall conform to AASHTO M270 Gr. 36, Gr. 50 (M183, M223 Gr. 50).

HIGH STRENGTH BOLTS: All bolts, washers, nuts and locknuts shall satisfy the requirements of ASTM designation A307 unless noted as "H.S." which shall require AASHTO M164 (A325), ASTM A449, or approved alternate. All fasteners shall be hot dip galvanized per AASHTO M232 unless otherwise specified.

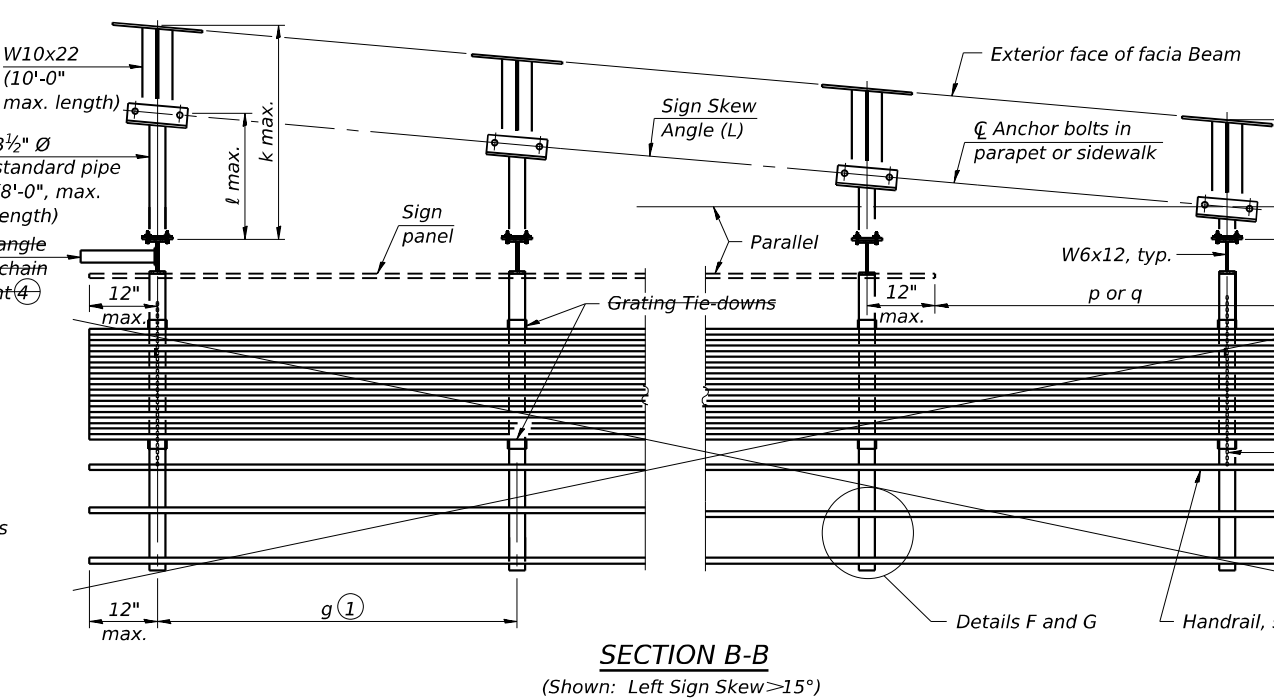
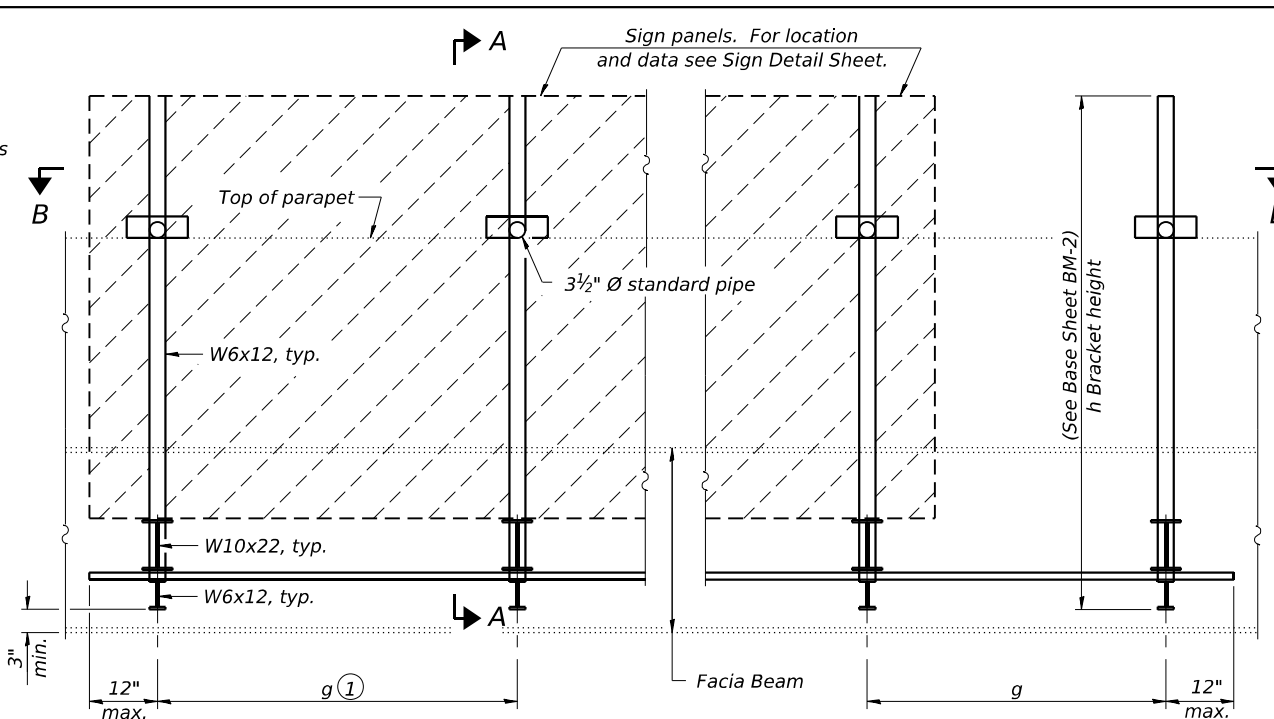
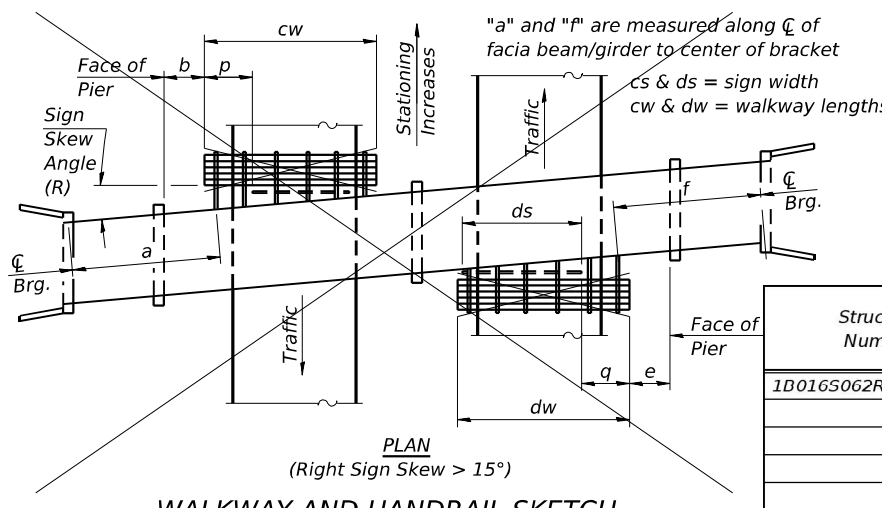
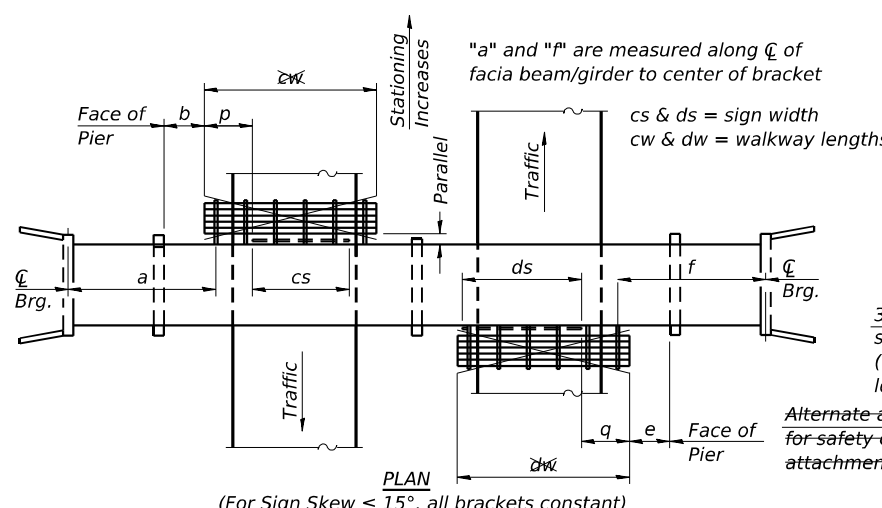
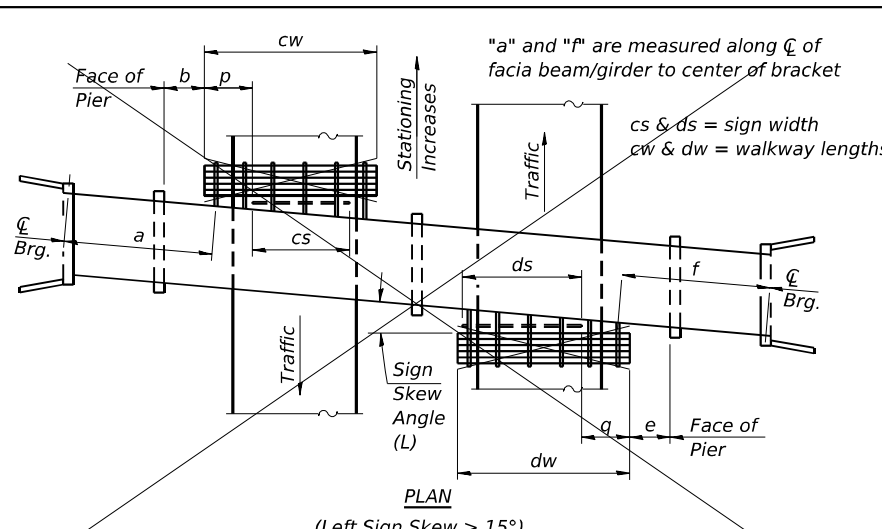
GALVANIZING: All Steel Grating, Plates, Shapes and Pipe shall be Hot Dip Galvanized after fabrication in accordance with AASHTO M111. Painting is not permitted.

ANCHOR RODS: All-threaded rod shall conform to ASTM F1554 Grade 105, 3/4" ϕ x 12" long, each with one plate washer and locknut and be hot dip galvanized per AASHTO M232. They shall be either cast into the concrete or epoxy grouted in accordance with Section 584 of the Standard Specifications. Minimum embedment in concrete shall be 9".

- ① Bracket spacing $g \leq 6'-0"$, max. Spacing shall be uniform if possible but may vary $\pm 6"$ to miss existing obstruction (rail post, light poles, web stiffeners, splice plates, etc.). Adjust bracket lengths accordingly on skewed structures.
- ② Any design modifications shall be based on the current version of applicable specifications and submitted for the Engineer's approval.
- ③ Unit price includes grating, handrail, brackets, supports, anchor bolts, fasteners, fabrication, delivery, erection, field drilling and other necessary items. Limits of payment are based on grating length (cw, dw) unless otherwise specified. For Safety Chain Details and Details D, F and G, see Base Sheet BM-4.
- ④ If walkway bracket at safety chain location is behind sign, add angle to bracket. See detail on Base Sheet BM-4.

TOTAL BILL OF MATERIAL

③ OVERHEAD SIGN STRUCTURE-BRIDGE MOUNTED	FOOT	14'-6"
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Structure Number	Sign Skew Angle (L) or (R)	Bridge Station	Bridge Structure Number	Contract Route Designation	a	b	cs	cw	ds	dw	e	f	g	No. of Brackets (Total)	p	q	Total Grating/Hndrl. Lengths (cw + dw)
1B016S062R000.0-###	12°34'38" R	3133+08.68	016-2133	IL-53	N/A	N/A	N/A	N/A	14'-6"	N/A	N/A	45'-1"	5'-0"	6	N/A	N/A	N/A

Dimensions a, b, e, f & g may vary as approved by the Engineer, see ①
When cw < cs and/or dw < ds, use alternate brackets without walkway supports where applicable, see ③.

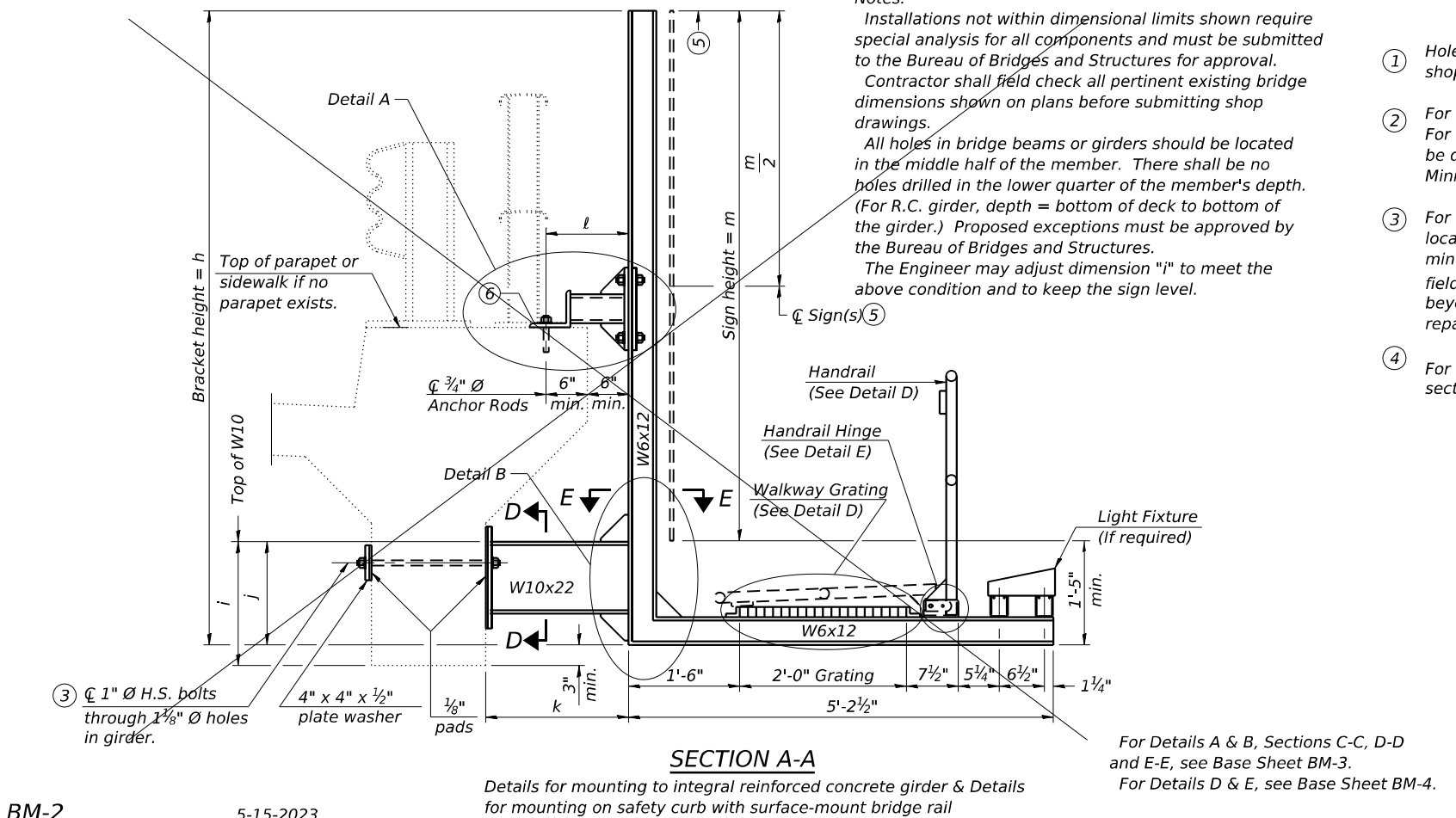
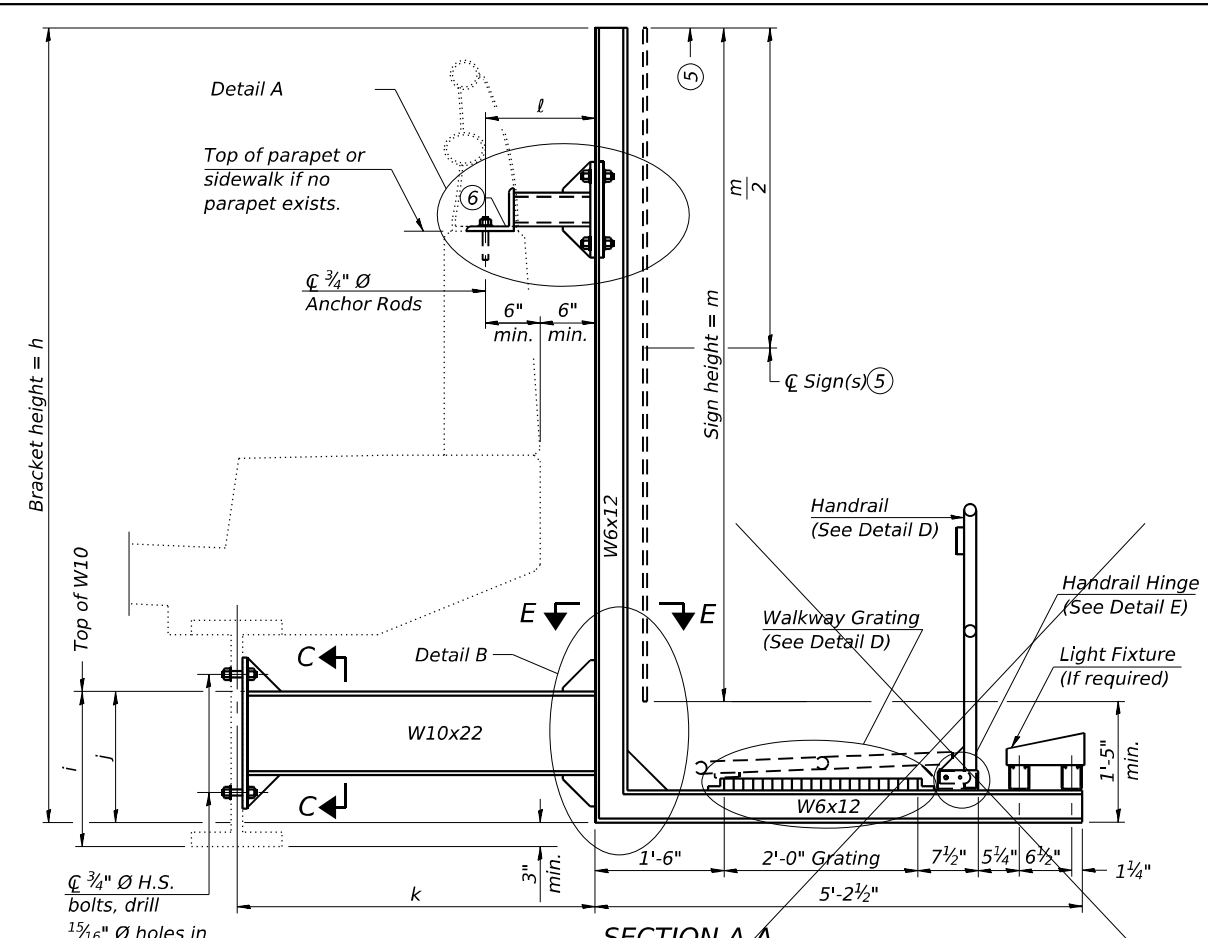
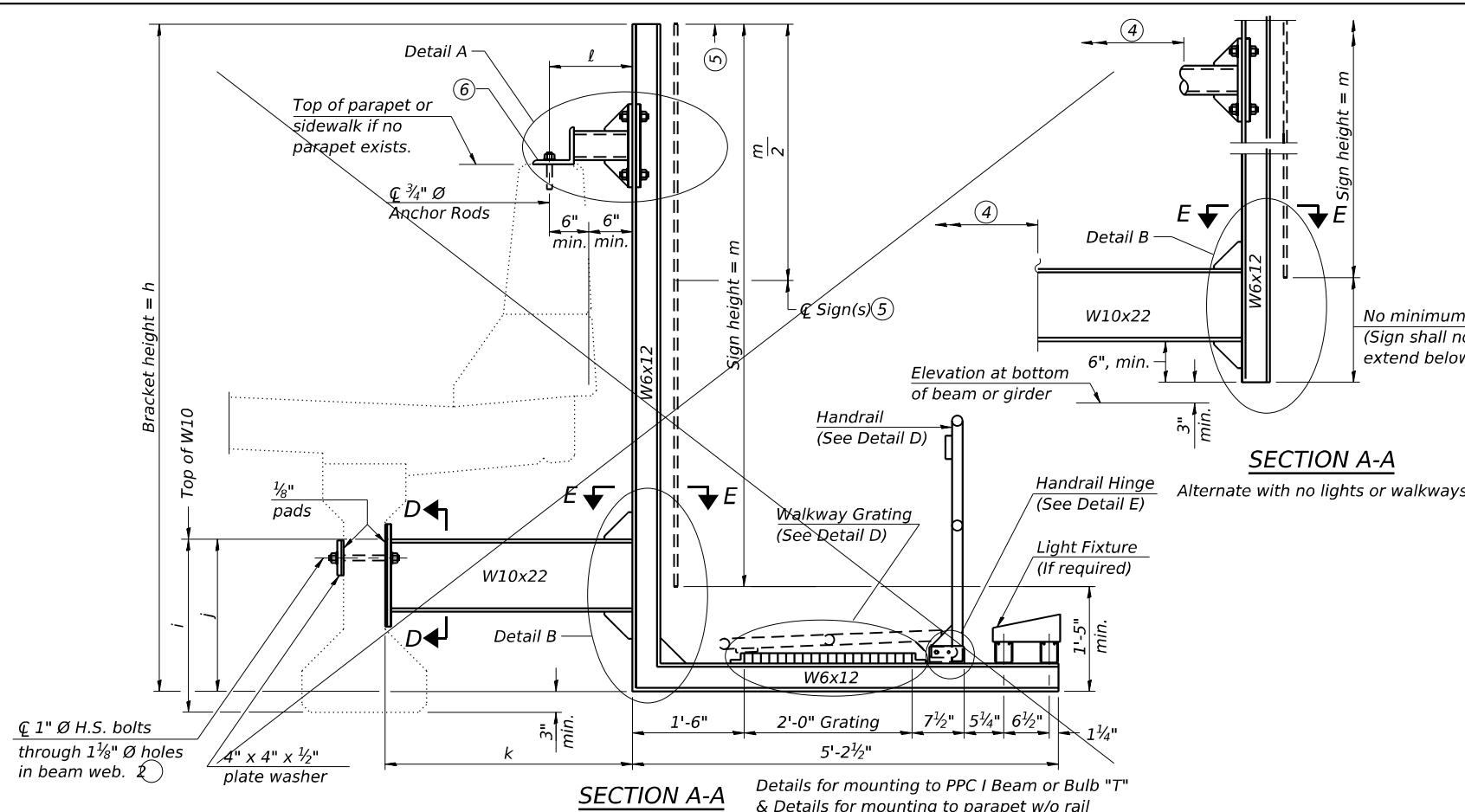
SA STRAND ASSOCIATES
1170 SOUTH HOUBOLT ROAD
JOLIET, ILLINOIS 60431
(815) 744-4200

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	DATE - 12/13/24	REVISED -

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	BRIDGE MOUNT SIGN STRUCTURES GENERAL PLAN AND ELEVATION
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SCALE:	SHEET 22 OF 25 SHEETS	STA.	TO STA.
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
342	2018-100-BR	COOK	1351	484
CONTRACT NO. 62N91				
ILLINOIS FED. AID PROJECT				



Notes:
 Installations not within dimensional limits shown require special analysis for all components and must be submitted to the Bureau of Bridges and Structures for approval. Contractor shall field check all pertinent existing bridge dimensions shown on plans before submitting shop drawings.
 All holes in bridge beams or girders should be located in the middle half of the member. There shall be no holes drilled in the lower quarter of the member's depth. (For R.C. girder, depth = bottom of deck to bottom of the girder.) Proposed exceptions must be approved by the Bureau of Bridges and Structures.
 The Engineer may adjust dimension "i" to meet the above condition and to keep the sign level.

- ① Holes in new steel members may be drilled in the fabrication shop or in the field. Field drill existing members.
- ② For new PPC I beams, holes shall be formed during casting. For existing PPC I beams, prestressing strand locations shall be determined and spaced to miss strands by 6", min. Minimize spalling during field drilling of existing beams.
- ③ For new construction, form holes. For existing RC beams, locate primary reinforcement and space holes to miss by 6", min. Minimize spalling and concrete fracturing/damage during field drilling of existing concrete. Spalls over 1/4" deep or beyond the coverage of the 4x4 plate washer shall be repaired with epoxy mortar before installing washer.
- ④ For attachment details of 3 1/2" pipe and W10x22, see other sections as applicable.
- ⑤ Sign shall not extend more than 6" above top of bracket, and this dimension may vary to keep sign level if bridge is on grade or vertical curve. Multiple signs of various heights shall share a common horizontal centerline and use equal bracket heights. If no sign is attached to a W6x12 vertical (bracket only supporting walkway), dimension h shall be the same as an adjacent bracket with a sign attached, unless Engineer specifically directs shorter brackets due to locational restraints on future uses. (See Detail A for minimum bracket height.)
- ⑥ For bridge mounted sign structures installed on new bridges with railing, during design, bracket spacing must be coordinated with railing post spacing and the Contractor must install upper brackets prior to railing installation. For bridge mounted sign structures installed on existing bridges with railing, during design, brackets spacing must be coordinated with railing post spacing and the Contractor must temporarily remove sections of railing to facilitate upper bracket installation. If it is determined during design that existing railings can't be removed, alternate upper connection details must be developed for the contract plans and approved by the Bureau of Bridges and Structures.

Structure Number	Station	h	i	j	k max. (10'-0" max.)	l max. (8'-0" max.)	m (15'-0" max.)
1B016S062R000.0-###	112+65.44	10'-11"	1'-8"	1'-5"	2'-3"	1'-0"	9'-6"

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

BRIDGE MOUNT SIGN STRUCTURES
 WALKWAY AND CONNECTION DETAILS

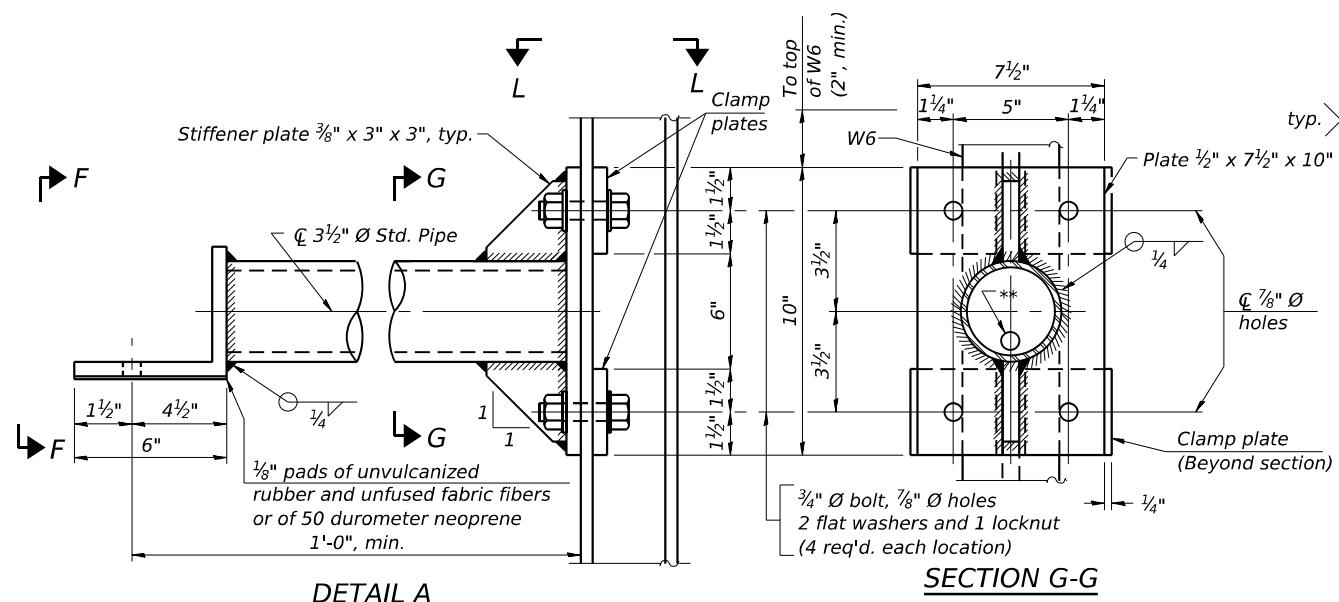
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
342	2018-100-BR	COOK	1351	485
CONTRACT NO. 62N91				
ILLINOIS FED. AID PROJECT				

BM-2
 5-15-2023

1170 SOUTH HOUBOLT ROAD
 JOLIET, ILLINOIS 60431
 (815) 744-4200

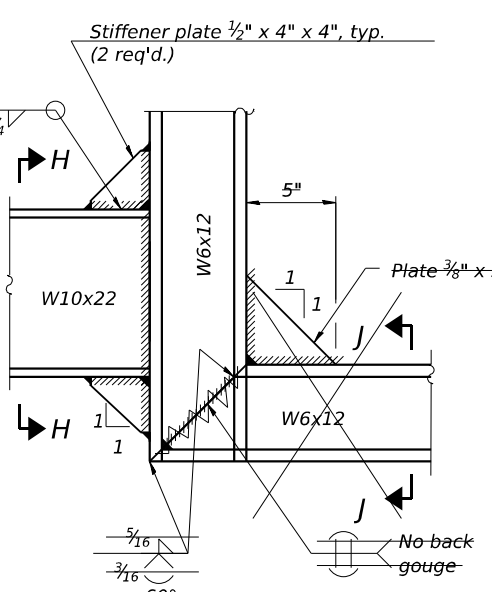
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PLOT SCALE = 0.1667' / in.	DRAWN - DJW	REVISED -
PLOT DATE = 12/13/2024	CHECKED - MAG	REVISED -
	DATE - 12/13/24	REVISED -

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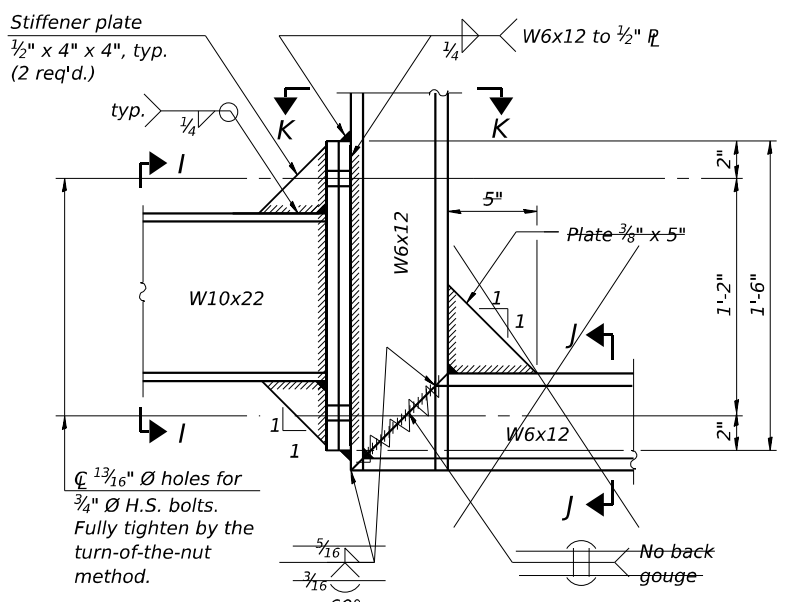


DETAIL A

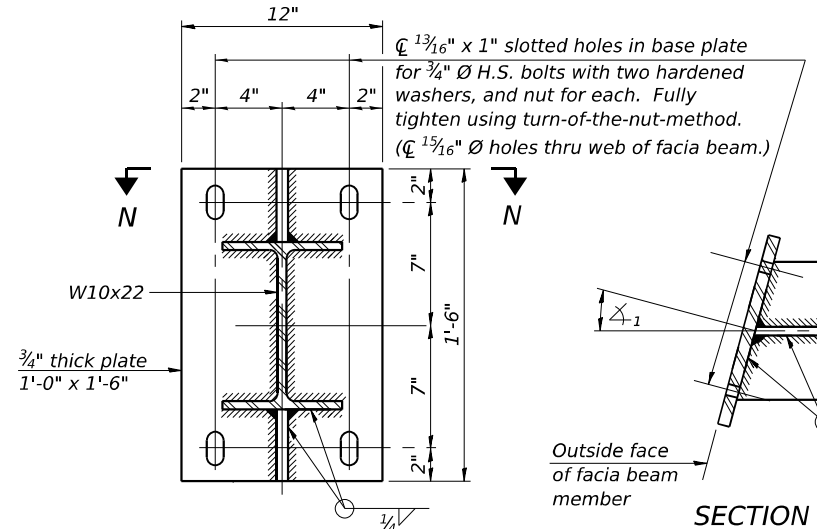
SECTION G-G



DETAIL B - WELDED W10x22 TO W6x12 CONNECTION

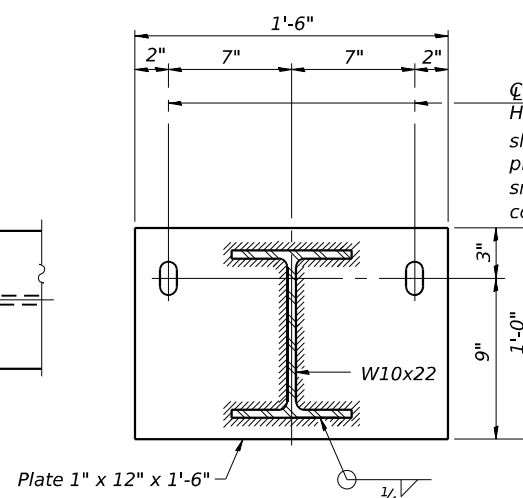


DETAIL B - ALTERNATE BOLTED W10x22 TO W6x12 CONNECTION



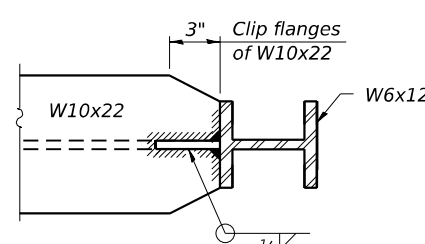
SECTION C-C

Steel beam or girder connection plate details

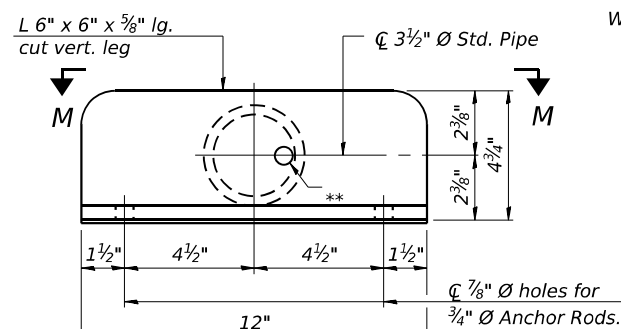


SECTION D-D

Concrete beam or girder connection plate details.

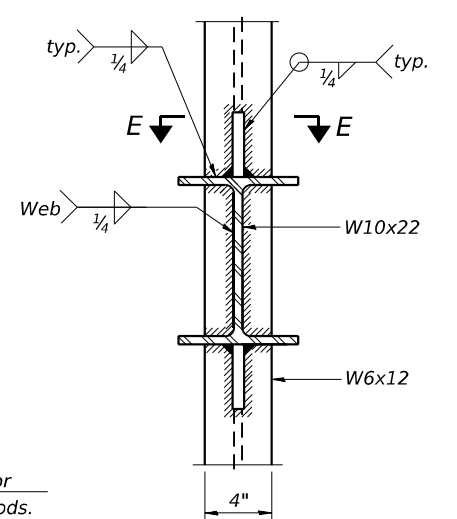


SECTION E-E

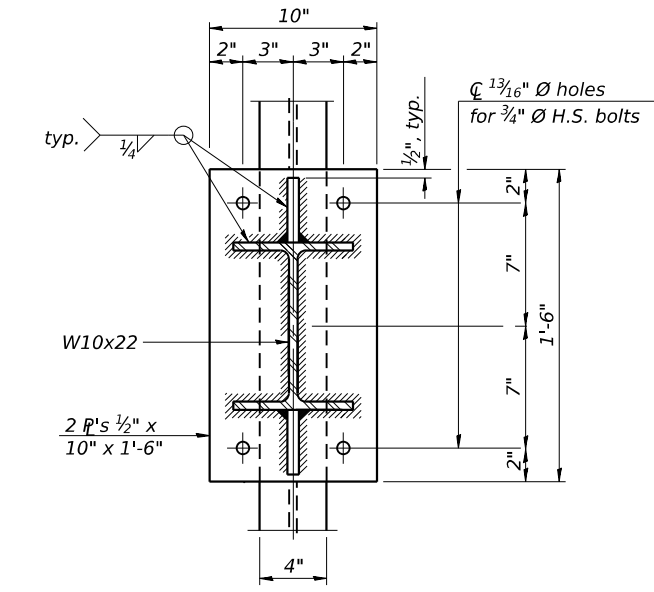


VIEW F-F

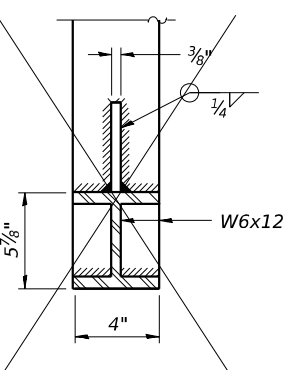
** 1 3/16 inch diameter holes for galvanizing. After galvanizing, install 7/8 inch diameter A307 hot-dip galvanized bolt to close hole in angle. (No bolt required in 1/2 inch plate.)



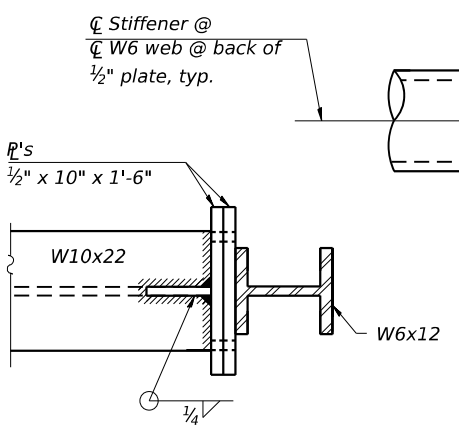
SECTION H-H



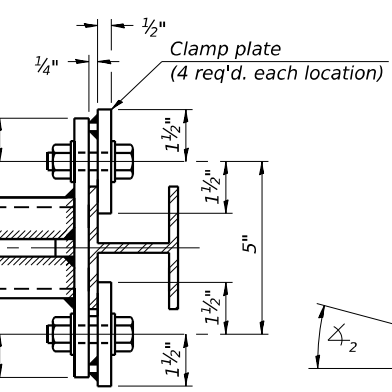
SECTION I-I



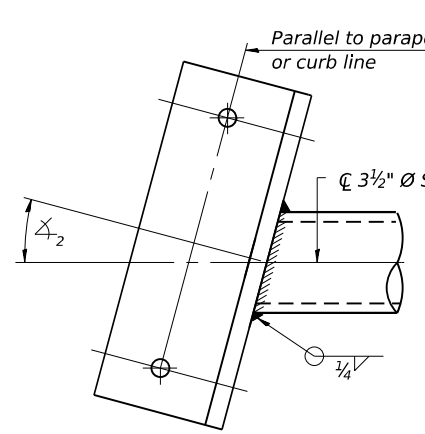
SECTION J-J



SECTION K-K

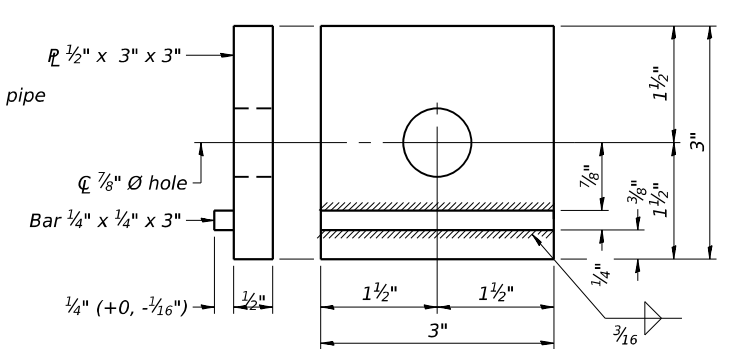


SECTION L-L



SECTION M-M

Skewed connection detail for 3 1/2 inch diameter pipe to parapet.



CLAMP PLATE DETAILS

Note: For constant slab overhang at fascia beam, $\Delta_1 = \Delta_2 = \text{sign angle}$. For flared beams or other special cases where $\Delta_1 \neq \Delta_2$, $\Delta_1 = \text{sign angle}$.

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 STRAND ASSOCIATES

BM-3 5-15-2023

USER NAME = StevenB	DESIGNED - TCH	REVISED -
PLOT SCALE = 0.1667' / in.	DRAWN - DJW	REVISED -
PLOT DATE = 12/13/2024	CHECKED - MAG	REVISED -
	DATE - 12/13/24	REVISED -

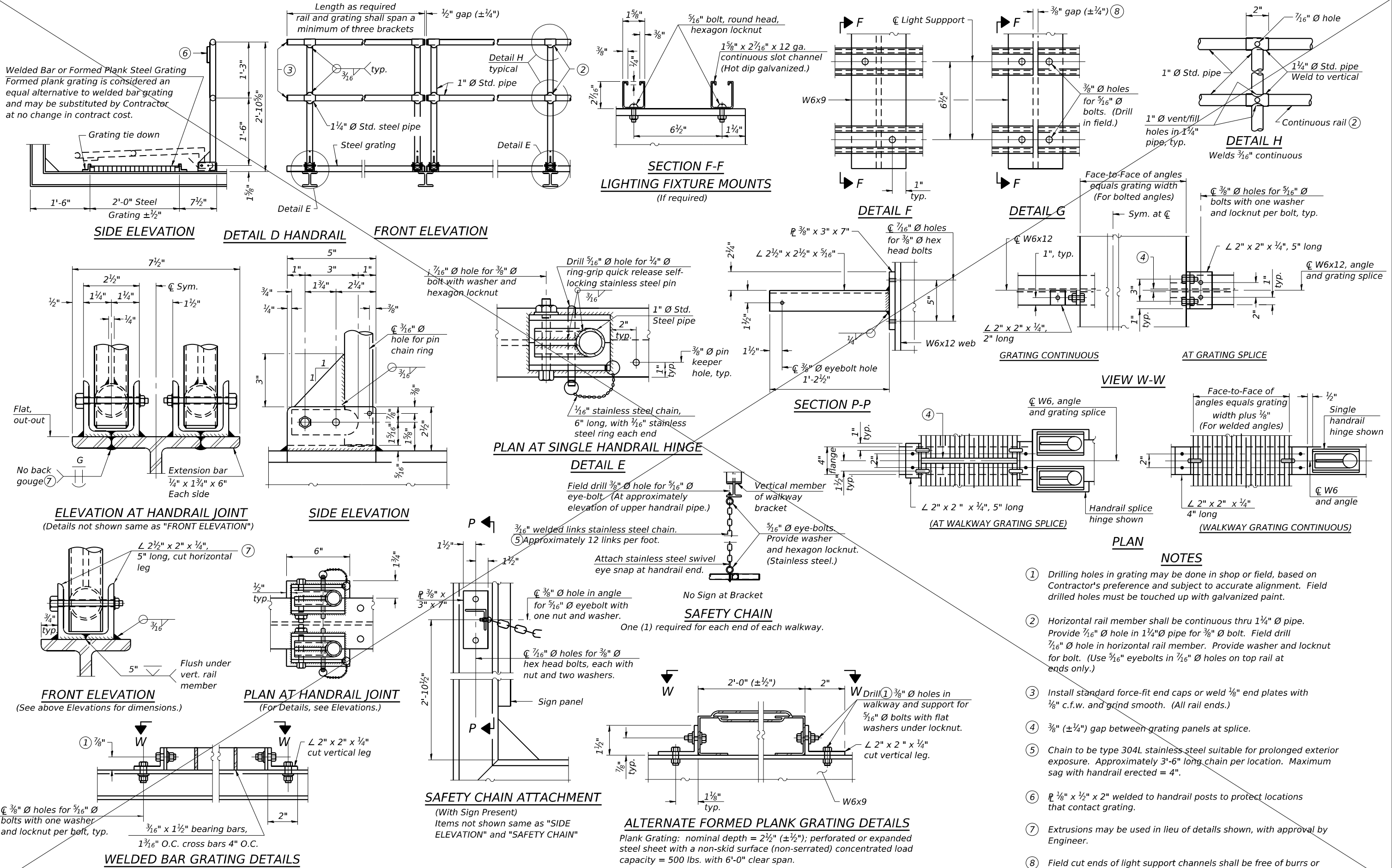
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

BRIDGE MOUNT SIGN STRUCTURES
 CONNECTION DETAILS

SCALE: SHEET 24 OF 25 SHEETS STA. TO STA.

F.A.P. RTE. 342	SECTION 2018-100-BR	COUNTY COOK	TOTAL SHEETS 1351	SHEET NO. 486
CONTRACT NO. 62N91				
ILLINOIS FED. AID PROJECT				

Welded Bar or Formed Plank Steel Grating
Formed plank grating is considered an equal alternative to welded bar grating and may be substituted by Contractor at no change in contract cost.



- NOTES**
- ① Drilling holes in grating may be done in shop or field, based on Contractor's preference and subject to accurate alignment. Field drilled holes must be touched up with galvanized paint.
 - ② Horizontal rail member shall be continuous thru $1\frac{1}{4}$ " \varnothing pipe. Provide $\frac{7}{16}$ " \varnothing hole in $1\frac{1}{4}$ " \varnothing pipe for $\frac{3}{8}$ " \varnothing bolt. Field drill $\frac{7}{16}$ " \varnothing hole in horizontal rail member. Provide washer and locknut for bolt. (Use $\frac{5}{16}$ " eyebolts in $\frac{7}{16}$ " \varnothing holes on top rail at ends only.)
 - ③ Install standard force-fit end caps or weld $\frac{1}{8}$ " end plates with $\frac{1}{8}$ " c.f.w. and grind smooth. (All rail ends.)
 - ④ $\frac{3}{8}$ " ($\pm\frac{1}{4}$ ") gap between grating panels at splice.
 - ⑤ Chain to be type 304L stainless steel suitable for prolonged exterior exposure. Approximately 3'-6" long chain per location. Maximum sag with handrail erected = 4".
 - ⑥ $\frac{1}{8}$ " x $\frac{1}{2}$ " x 2" welded to handrail posts to protect locations that contact grating.
 - ⑦ Extrusions may be used in lieu of details shown, with approval by Engineer.
 - ⑧ Field cut ends of light support channels shall be free of burrs or hazardous projections and coated with zinc-rich primer or equivalent.



SOIL BORING LOG

Page 1 of 1

Date 24/6/3

ROUTE FAP 342 DESCRIPTION Overhead Sign Boring LOGGED BY Gonzalez (OG)

SECTION 2018-100-BR LOCATION SEC. 7, TWP. 41N, RNG. 11E, 3rd PM, Latitude 42.06326640, Longitude -88.0278220

COUNTY Cook DRILLING METHOD Hollow Stem Auger (8" O.D., 3.25" I.D.) HAMMER TYPE Auto 140 lb HE 91

STRUCT. NO.	Station	D	B	U	M	Surface Water Elev.	ft	D	B	U	M
BORING NO.	Station	DEPTH	LOW	CS	QUIST	Stream Bed Elev.	ft	DEPTH	LOW	CS	QUIST
	Offset	H	S	Qu	T	Groundwater Elev.:		H	S	Qu	T
	Ground Surface Elev.	(ft)	(/6")	(tsf)	(%)	First Encounter	Dry	(ft)	(/6")	(tsf)	(%)
						Upon Completion	Dry				
						After	Hrs.				
							Filled				
Asphalt - 6"	741.5					Medium Stiff to Stiff, Brown, CLAY, trace to some gravel and sand (continued)					
Concrete - 12"	740.5		3					4			
Aggregate Base - 12"	739.5		2		10			5	5.8	14	
			6					7	B/S		
Medium Stiff to Stiff, Brown, CLAY, trace to some gravel and sand			3					4			
			4	5.1	14			5	3.1	15	
			5	B/S				6	B/S		
			3					7			
			5	3.0	13	organic, black/brown		8	3.1	26	
			6	S				9	B/S		
			4					4			
			5	6.8	14			4	4.0	16	
			7	B/S				5	B		
			3								
			6	5.0	14						
			7	B/S							
			4					2			
			5		16			4	2.2	18	
			5					7	B/S		
			4			Boring terminated at 35 feet.					
			5	4.8	17						
			7	B/S							
			5								
			5	3.1	13						
			7	B/S							

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer, M-Modified SPT) The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, form 137 (Rev. 8-99)



SOIL BORING LOG

Page 1 of 1

Date 24/6/2

ROUTE FAP 342 DESCRIPTION Overhead Sign Boring LOGGED BY Gonzalez (OG)

SECTION 2018-100-BR LOCATION SEC. 7, TWP. 41N, RNG. 11E, 3rd PM, Latitude 42.06325894, Longitude -88.0276051

COUNTY Cook DRILLING METHOD Hollow Stem Auger (8" O.D., 3.25" I.D.) HAMMER TYPE Auto 140 lb HE 91

STRUCT. NO.	Station	D	B	U	M	Surface Water Elev.	ft	D	B	U	M
BORING NO.	Station	DEPTH	LOW	CS	QUIST	Stream Bed Elev.	ft	DEPTH	LOW	CS	QUIST
	Offset	H	S	Qu	T	Groundwater Elev.:		H	S	Qu	T
	Ground Surface Elev.	(ft)	(/6")	(tsf)	(%)	First Encounter	Dry	(ft)	(/6")	(tsf)	(%)
						Upon Completion	Dry				
						After	Hrs.				
							Filled				
Asphalt - 14.5"						Medium Stiff to Stiff, Brown, CLAY, trace to some gravel and sand (continued)					
	740.1		16								
Aggregate base - 12"	739.1		4		16			6	4.0	15	
			3					5	P		
GRAVEL, some sand and silt	738.3										
Medium Stiff to Stiff, Brown, CLAY, trace to some gravel and sand			2					3			
			5	4.8	16			5	3.3	16	
			5	B				6	B		
			2					4			
			4	3.5	16			4	2.9	23	
			7	P				6	S		
			2					3			
			5	3.7	16			4	2.4	19	
			6	B/S				5	BS		
			3								
			3	3.4	14						
			6	B							
			3					4			
			6	1.7	24			6	5.5	21	
			8	B/S				11	B		
			5								
			6	4.2	17						
			8	B/S							
			3								
			4	2.7	27						
			7	B/S							

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer, M-Modified SPT) The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, form 137 (Rev. 8-99)

MODEL: D:\p\h\1170\1170-00-0399\1170-00-0399\1170-00-0399\CAD\Micro-SSA\CAD_Sheets\C-0162N91-1-1170-00-0399.dgn



USER NAME = tylerthe	DESIGNED - TCH	REVISED -
DRAWN - DJW	REVISIONS -	
PLOT SCALE = 0.1667' / in.	CHECKED - MAG	REVISED -
PLOT DATE = 12/13/2024	DATE - 12/13/24	REVISED -

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

SOIL BORING LOGS - 2

SCALE: SHEET 2 OF 9 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
342	2018-100-BR	COOK	1351	489
CONTRACT NO. 62N91				
ILLINOIS FED. AID PROJECT				



SOIL BORING LOG

Date 23/5/9

ROUTE FAP 342 DESCRIPTION Sign Boring - 62B LOGGED BY Gonzalez (BR)

SECTION 2018-100-BR LOCATION SE 1/4, SEC. 35, TWP. 42N, RNG. 10E, 3rd PM,
Latitude 42.06977007, Longitude 88.02793746

COUNTY Cook DRILLING METHOD Hollow Stem Auger (8" O.D., 3.25" I.D.) HAMMER TYPE Auto 140 lb HE 105

STRUCT. NO. 1S016S053R000.0-007 Station 1159+25.00	D E P T H S Qu T (ft) (/6") (tsf) (%)	B L O W S Qu T (ft) (/6") (tsf) (%)	U C S Qu T (ft) (/6") (tsf) (%)	M O I S T Qu T (ft) (/6") (tsf) (%)	Surface Water Elev. _____ ft	D E P T H S Qu T (ft) (/6") (tsf) (%)	B L O W S Qu T (ft) (/6") (tsf) (%)	U C S Qu T (ft) (/6") (tsf) (%)	M O I S T Qu T (ft) (/6") (tsf) (%)
					Stream Bed Elev. _____ ft				
BORING NO. GC-23 Station 3159+31 Offset 29.6 ft LT Ground Surface Elev. 719.6 ft					Groundwater Elev.: First Encounter _____ Dry ft Upon Completion _____ Dry ft After _____ Hrs. _____ Filled ft				

ASPHALT - 14" 718.4					Stiff, Brown, Dry to Moist, CLAY, Trace Gravel (continued)				
Asphalt Millings 716.6	18 4 7					4 6 9		2.8 B	19
Stiff, Brown, Dry to Moist, CLAY, Trace Gravel 716.6					Boring terminated at 30 feet.				
	4 6 6	5.7 B	15			3 4 8		3.4 B	24
	3 5 7	3.0 B	17			5 7 1		3.9 B	24
	3 5 6	3.1 B	19			4 5 8		3.4 B	24
	3 4 6	3.3 B	19						
	4 7 8	4.6 B	20						
	3 4 6	3.3 B	19						
703.6									
Stiff, Brown, Moist, GRAVELLY CLAY 703.1		50/3	17						
Stiff, Brown, Dry to Moist, CLAY, Trace Gravel 703.1									
	6 5 10	2.0 B	24						

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer, M-Modified SPT)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, form 137 (Rev. 8-99)



SOIL BORING LOG

Date 23/5/10

ROUTE FAP 342 DESCRIPTION Sign Boring - 62A LOGGED BY Gonzalez (BR)

SECTION 2018-100-BR LOCATION SE 1/4, SEC. 35, TWP. 42N, RNG. 10E, 3rd PM,
Latitude 42.06977195, Longitude 88.02806347

COUNTY Cook DRILLING METHOD Hollow Stem Auger (8" O.D., 3.25" I.D.) HAMMER TYPE Auto 140 lb HE 105

STRUCT. NO. 1S016S053R000.0-007 Station 1159+25.00	D E P T H S Qu T (ft) (/6") (tsf) (%)	B L O W S Qu T (ft) (/6") (tsf) (%)	U C S Qu T (ft) (/6") (tsf) (%)	M O I S T Qu T (ft) (/6") (tsf) (%)	Surface Water Elev. _____ ft	D E P T H S Qu T (ft) (/6") (tsf) (%)	B L O W S Qu T (ft) (/6") (tsf) (%)	U C S Qu T (ft) (/6") (tsf) (%)	M O I S T Qu T (ft) (/6") (tsf) (%)
					Stream Bed Elev. _____ ft				
BORING NO. GC-24 Station 3159+31 Offset 63.8 ft LT Ground Surface Elev. 719.1 ft					Groundwater Elev.: First Encounter _____ Dry ft Upon Completion _____ 699.1 ft After _____ Hrs. _____ Filled ft				

ASPHALT - 18" 717.6					Medium Stiff to Stiff, Brown, Moist to Wet, CLAY, Trace Gravel (continued)				
Stiff, Brown, Dry, GRAVELLY CLAY 716.1	19 12 8					4 3 5		1.0 B	16
Medium Stiff to Stiff, Brown, Moist to Wet, CLAY, Trace Gravel 716.1					Silt Seam				
	2 2 4	1.8 B	15			2 3 5		2.0 B	15
	2 3 4	1.9 B	17			4 6 4		0.4 B	19
	1 0 2	1.5 P	16			2 4 6		2.2 B	21
	2 1 3	1.6 B	17						
	5 6 7	3.7 B	17						
	3 5	1.5 B	16						
691.1									
Medium Stiff to Stiff, Brown, Wet, CLAY, Trace Sand, Trace Gravel 689.1									
Boring terminated at 30 feet. 689.1									
	2 1 3	1.6 B	17						
	5 6 7	3.7 B	17						
	3 5	1.5 B	16						
	4 5 7		19						

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer, M-Modified SPT)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, form 137 (Rev. 8-99)

MODEL D:\ef\h\1130\Drawings\CD\Micro\SSA\CAD_Sheets\CD-0162\N91-Silt-seal_boring_logs_S61.dgn



1170 SOUTH HOBOLT ROAD
JOLIET, ILLINOIS 60431
(815) 744-4200

USER NAME = tylrthe	DESIGNED - TCH	REVISIONS
PLOT SCALE = 0.1667' / in.	CHECKED - MAG	REVISIONS
PLOT DATE = 12/13/2024	DATE - 12/13/24	REVISIONS

	REVISIONS
	REVISIONS
	REVISIONS

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORING LOGS - 3

SCALE: SHEET 3 OF 9 SHEETS STA. TO STA.

F.A.P. RTE. 342	SECTION 2018-100-BR	COUNTY COOK	TOTAL SHEETS 1351	SHEET NO. 490
ILLINOIS			CONTRACT NO. 62N91	



SOIL BORING LOG

Date 23/5/11

ROUTE FAP 342 DESCRIPTION Sign Boring - Dundee A LOGGED BY Gonzalez (BR)

SECTION 2018-100-BR LOCATION NE 1/4, SEC. 12, TWP. 42N, RNG. 10E, 3rd PM,

Latitude 42.13483185, Longitude 88.0047017

COUNTY Cook DRILLING METHOD Hollow Stem Auger (8" O.D., 3.25" I.D.) HAMMER TYPE Auto 140 lb HE 105

STRUCT. NO. 1S016S053L000.0-007
Station 1433+18.00

BORING NO. GC-30
Station 2433+05
Offset 17 ft LT
Ground Surface Elev. 723.7 ft

Table with columns: D, B, U, M, SOIL TYPE, Surface Water Elev., Stream Bed Elev., Groundwater Elev., First Encounter, Upon Completion, After, Hrs., Filled, ft. Includes data for ASPHALT - 11", Stiff, Brown, Dry, CLAY, Trace Gravel, Coarse Gravel, Medium Dense, Brown, Dry, CLAYEY SAND, Some Gravel, Stiff, Brown, Moist, CLAY, Trace Gravel, and Boring terminated at 30 feet.

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer, M-Modified SPT)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, form 137 (Rev. 8-99)



SOIL BORING LOG

Date 23/5/11

ROUTE FAP 342 DESCRIPTION Sign Boring - Dundee B LOGGED BY Gonzalez (BR)

SECTION 2018-100-BR LOCATION NW 1/4, SEC. 7, TWP. 42N, RNG. 11E, 3rd PM,

Latitude 42.13485476, Longitude 88.00445733

COUNTY Cook DRILLING METHOD Hollow Stem Auger (8" O.D., 3.25" I.D.) HAMMER TYPE Auto 140 lb HE 105

STRUCT. NO. 1S016S053L000.0-007
Station 1433+18.00

BORING NO. GC-28
Station 2433+14
Offset 49.4 ft RT
Ground Surface Elev. 723.4 ft

Table with columns: D, B, U, M, SOIL TYPE, Surface Water Elev., Stream Bed Elev., Groundwater Elev., First Encounter, Upon Completion, After, Hrs., Filled, ft. Includes data for ASPHALT - 11", Stiff, Brown, Dry, GRAVELLY CLAY, Medium Stiff, Brown, Moist, CLAY, Medium Stiff, Brown, Moist, SILTY CLAY, Stiff, Brown, Moist, CLAY, Trace Gravel, and Boring terminated at 30 feet.

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer, M-Modified SPT)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, form 137 (Rev. 8-99)

MODEL Path: H:\34200-63299\3421\3\Drawings\CAD\Micro\SSA\CAD_Sheets\C2-01\62N91-1-1-2011-borings.borings\brs-541.dgn



Table with columns: USER NAME, DESIGNED, DRAWN, PLOT SCALE, PLOT DATE, REVISED, CHECKED, DATE. Includes values: tylerthe, TCH, DJW, 0.1667' / in., 12/13/2024, MAG, 12/13/24.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORING LOGS - 5

SCALE: SHEET 5 OF 9 SHEETS STA. TO STA.

Table with columns: F.A.P. RTE., SECTION, COUNTY, TOTAL SHEETS, SHEET NO., CONTRACT NO. Includes values: 342, 2018-100-BR, COOK, 1351, 492, 62N91.

ILLINOIS FED. AID PROJECT



SOIL BORING LOG

Page 1 of 1

Date 24/5/23

ROUTE FAP 342 DESCRIPTION Overhead Sign Boring LOGGED BY Gonzalez (OG)

SECTION 2018-100-BR LOCATION SEC. 1, TWP. 42N, RNG. 10E, 3rd PM, Latitude 42.14866572, Longitude -88.0117300

COUNTY Cook DRILLING METHOD Hollow Stem Auger (8" O.D., 3.25" I.D.) HAMMER TYPE Auto 140 lb HE 91

STRUCT. NO. 1S016S053L000.0-008
Station 1488+07.00

BORING NO. GC-71
Station 2488+80
Offset 36.8 ft LT
Ground Surface Elev. 731.5 ft

DEPTH (ft)	BLOW COUNT (/6")	UCS (tsf)	MOISTURE (%)	SOIL DESCRIPTION	ELEVATION (ft)
				Surface Water Elev. _____ ft	
				Stream Bed Elev. _____ ft	
				Groundwater Elev.: _____ ft	
				First Encounter _____ Dry ft	
				Upon Completion _____ Dry ft	
				After _____ Hrs. _____ Filled ft	
0				Brown, Medium Stiff, CLAY, with sand and silt	731.5
2				Medium Dense, Brown, SAND, with gravel (continued)	710.5
3	1.0	11		Stiff, Brown, CLAY, some sand, trace silt	
5	S				
2					
3	2.2	12			
5	B				
-5					
3					
5	2.6	15			
6	B				
3					703.0
3	1.6	15		Stiff, Brown, CLAY, trace gravel and sand	
5	B				
-10					
3					
4	1.1	14			
5	B				
718.0					
2				Loose, Brown, SANDY LOAM, some gravel and clay	
1		19			
2					
-15					
716.0					
6				Very Stiff, Brown, CLAY, some sand and gravel	
8	1.7	17			
11	B				
713.0					
3				Medium Dense, Brown, SAND, with gravel	
5					
7					
-20					

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer, M-Modified SPT)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, form 137 (Rev. 8-99)



SOIL BORING LOG

Page 1 of 1

Date 24/5/24

ROUTE FAP 342 DESCRIPTION Overhead Sign Boring LOGGED BY Gonzalez (OG)

SECTION 2018-100-BR LOCATION SEC. 1, TWP. 42N, RNG. 10E, 3rd PM, Latitude 42.14877562, Longitude -88.0115246

COUNTY Cook DRILLING METHOD Hollow Stem Auger (8" O.D., 3.25" I.D.) HAMMER TYPE Auto 140 lb HE 91

STRUCT. NO. 1S016S053L000.0-008
Station 1488+07.00

BORING NO. GC-72
Station 2488+76
Offset 31.7 ft RT
Ground Surface Elev. 734.0 ft

DEPTH (ft)	BLOW COUNT (/6")	UCS (tsf)	MOISTURE (%)	SOIL DESCRIPTION	ELEVATION (ft)
				Surface Water Elev. _____ ft	
				Stream Bed Elev. _____ ft	
				Groundwater Elev.: _____ ft	
				First Encounter _____ Dry ft	
				Upon Completion _____ Dry ft	
				After _____ Hrs. _____ Filled ft	
0				Asphalt - 12"	733.0
19				Stiff to Very Stiff, SAND and GRAVEL [No Sample Recovered]	
45					
50					
8					
3					
4					
-5					
728.5					
3				Medium Stiff to Stiff, Brown, CLAY, some sand, silt	
3	2.5	17			
3	P				
3					
4	2.1	14			
5	B				
-10					
4					
4	2.5	15			
5	P				
3					
3	1.6	15			
4	B				
-15					
699.0					
718.0					
2				Medium Stiff to Stiff, Brown, CLAY, some silt	
3	1.3	20			
4	B				
2					
3	1.2	19			
4	B				
-20					

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer, M-Modified SPT)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, form 137 (Rev. 8-99)

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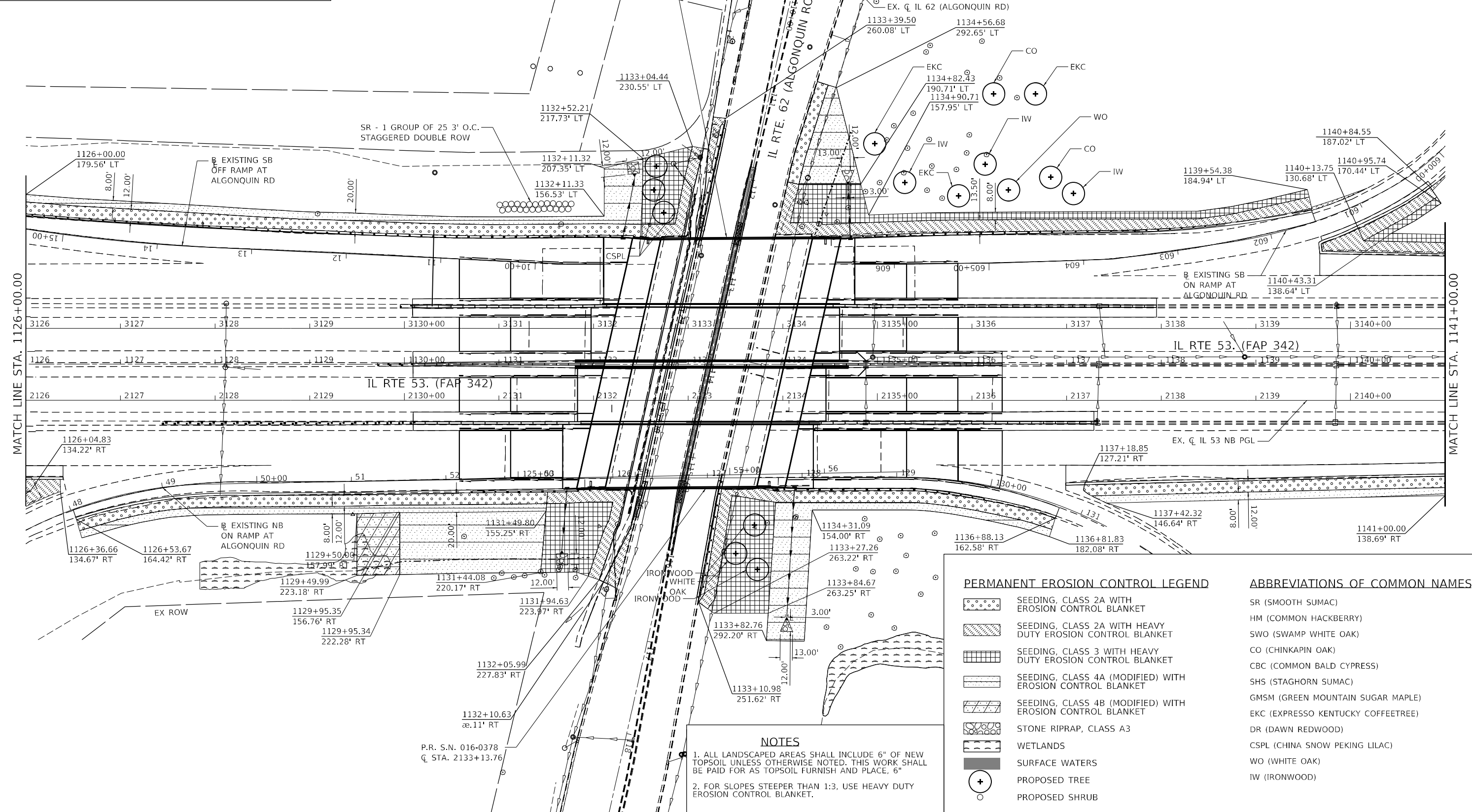
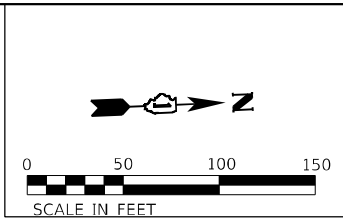
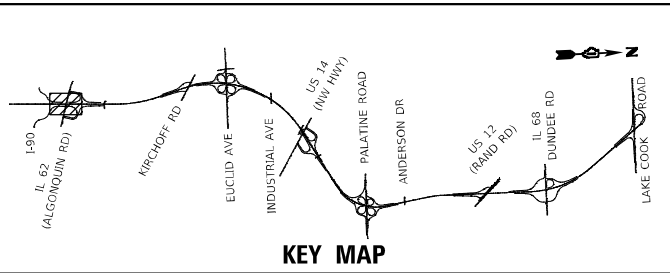
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORING LOGS - 6

SCALE: SHEET 6 OF 9 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
342	2018-100-BR	COOK	1351	493
CONTRACT NO. 62N91				
ILLINOIS FED. AID PROJECT				



MATCH LINE STA. 1126+00.00

MATCH LINE STA. 1141+00.00

NOTES
 1. ALL LANDSCAPED AREAS SHALL INCLUDE 6" OF NEW TOPSOIL UNLESS OTHERWISE NOTED. THIS WORK SHALL BE PAID FOR AS TOPSOIL FURNISH AND PLACE, 6"
 2. FOR SLOPES STEEPER THAN 1:3, USE HEAVY DUTY EROSION CONTROL BLANKET.

PERMANENT EROSION CONTROL LEGEND

- [Symbol] SEEDING, CLASS 2A WITH EROSION CONTROL BLANKET
- [Symbol] SEEDING, CLASS 2A WITH HEAVY DUTY EROSION CONTROL BLANKET
- [Symbol] SEEDING, CLASS 3 WITH HEAVY DUTY EROSION CONTROL BLANKET
- [Symbol] SEEDING, CLASS 4A (MODIFIED) WITH EROSION CONTROL BLANKET
- [Symbol] SEEDING, CLASS 4B (MODIFIED) WITH EROSION CONTROL BLANKET
- [Symbol] STONE RIPRAP, CLASS A3
- [Symbol] WETLANDS
- [Symbol] SURFACE WATERS
- [Symbol] PROPOSED TREE
- [Symbol] PROPOSED SHRUB

ABBREVIATIONS OF COMMON NAMES

- SR (SMOOTH SUMAC)
- HM (COMMON HACKBERRY)
- SWO (SWAMP WHITE OAK)
- CO (CHINKAPIN OAK)
- CBC (COMMON BALD CYPRESS)
- SHS (STAGHORN SUMAC)
- GMSM (GREEN MOUNTAIN SUGAR MAPLE)
- EKC (EXPRESSO KENTUCKY COFFEETREE)
- DR (DAWN REDWOOD)
- CSPL (CHINA SNOW PEKING LILAC)
- WO (WHITE OAK)
- IW (IRONWOOD)

SA STRAND ASSOCIATES
 1170 SOUTH HOUBOLT ROAD
 JOLIET, ILLINOIS 60431
 (815) 744-4200

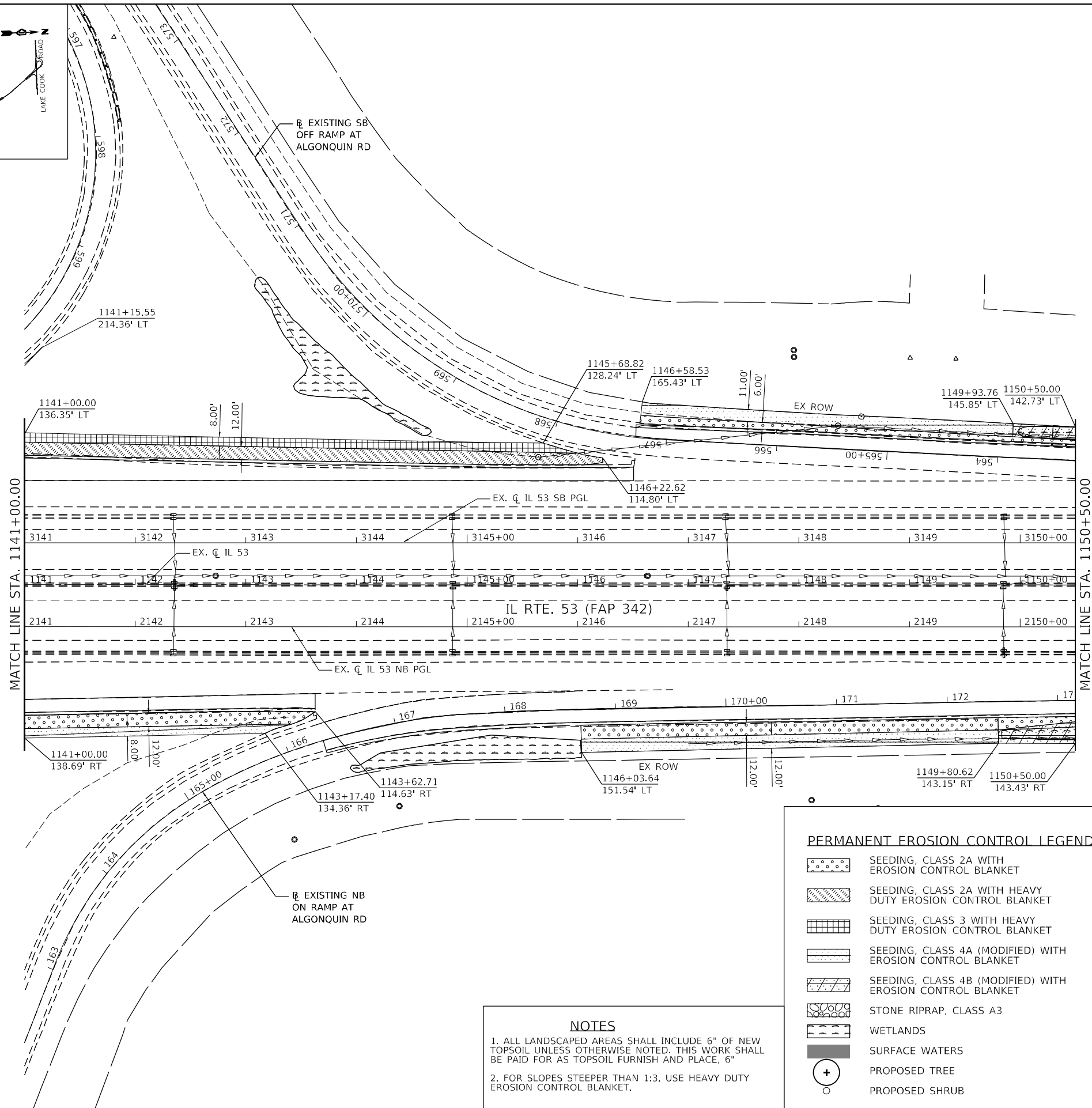
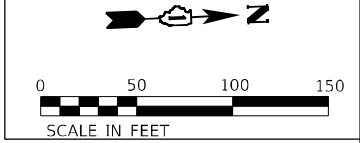
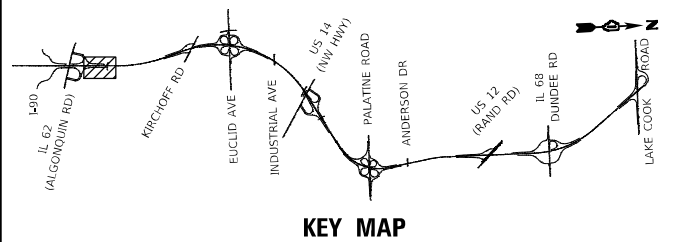
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	DATE - 12/13/24	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**IL ROUTE 53
PERMANENT EROSION CONTROL AND LANDSCAPING PLAN**

SCALE: 1" = 50' SHEET 2 OF 19 SHEETS STA. 1126+00.00 TO STA. 1141+00.00

F.A.P. RTE. 342	SECTION 2018-100-BR	COUNTY COOK	TOTAL SHEETS 1351	SHEET NO. 498
CONTRACT NO. 62N91				
ILLINOIS FED. AID PROJECT				



NOTES

- ALL LANDSCAPED AREAS SHALL INCLUDE 6" OF NEW TOPSOIL UNLESS OTHERWISE NOTED. THIS WORK SHALL BE PAID FOR AS TOPSOIL FURNISH AND PLACE, 6"
- FOR SLOPES STEEPER THAN 1:3, USE HEAVY DUTY EROSION CONTROL BLANKET.


PERMANENT EROSION CONTROL LEGEND

-  SEEDING, CLASS 2A WITH EROSION CONTROL BLANKET
-  SEEDING, CLASS 2A WITH HEAVY DUTY EROSION CONTROL BLANKET
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- CSPL (CHINA SNOW PEKING LILAC)
- WO (WHITE OAK)
- IW (IRONWOOD)

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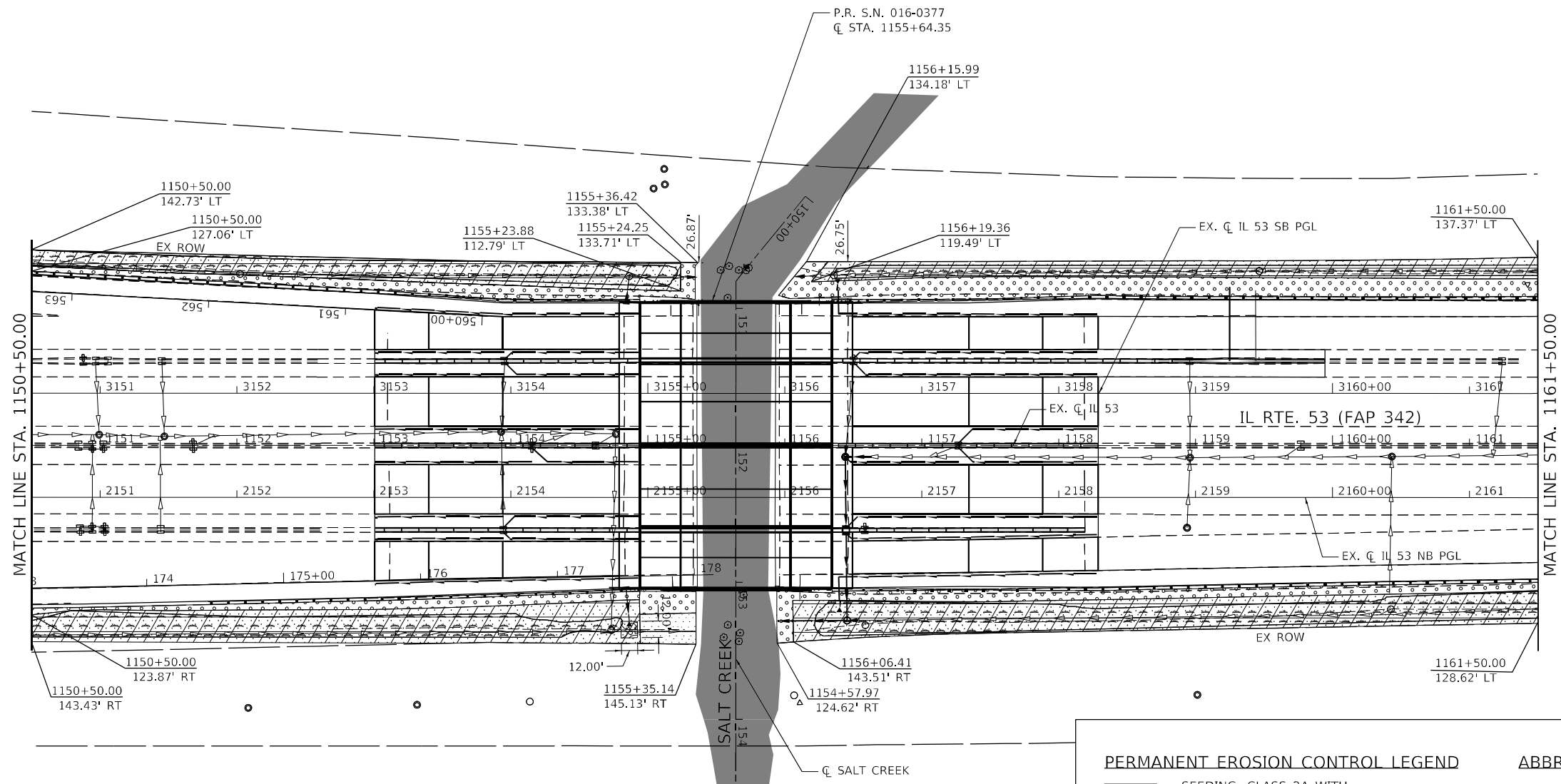
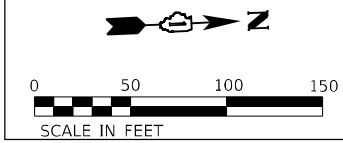
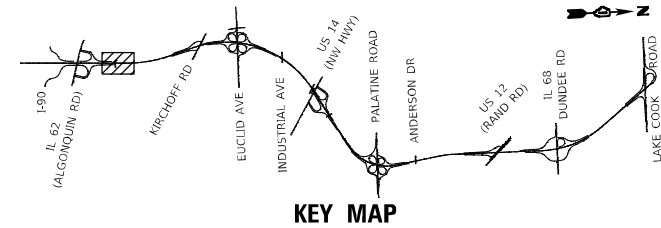
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		DATE - 12/13/24	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**IL ROUTE 53
PERMANENT EROSION CONTROL AND LANDSCAPING PLAN**

F.A.P. RTE. 342	SECTION 2018-100-BR	COUNTY COOK	TOTAL SHEETS 1351	SHEET NO. 499
CONTRACT NO. 62N91				
ILLINOIS FED. AID PROJECT				

SCALE: 1" = 50' SHEET 3 OF 19 SHEETS STA. 1141+00.00 TO STA. 1150+50.00



NOTES

- ALL LANDSCAPED AREAS SHALL INCLUDE 6" OF NEW TOPSOIL UNLESS OTHERWISE NOTED. THIS WORK SHALL BE PAID FOR AS TOPSOIL FURNISH AND PLACE, 6"
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- DR (DAWN REDWOOD)
- CSPL (CHINA SNOW PEKING LILAC)
- WO (WHITE OAK)
- IW (IRONWOOD)

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SA STRAND ASSOCIATES
 1170 SOUTH HOUBOLT ROAD
 JOLIET, ILLINOIS 60431
 (815) 744-4200

USER NAME = NoahA	DESIGNED - SRB	REVISED -
PLOT SCALE = 100,0000' / in.	DRAWN - DJW	REVISED -
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**IL ROUTE 53
PERMANENT EROSION CONTROL AND LANDSCAPING PLAN**

SCALE: 1" = 50' SHEET 4 OF 19 SHEETS STA. 1150+50.00 TO STA. 1161+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
342	2018-100-BR	COOK	1351	500
CONTRACT NO. 62N91				

ILLINOIS FED. AID PROJECT