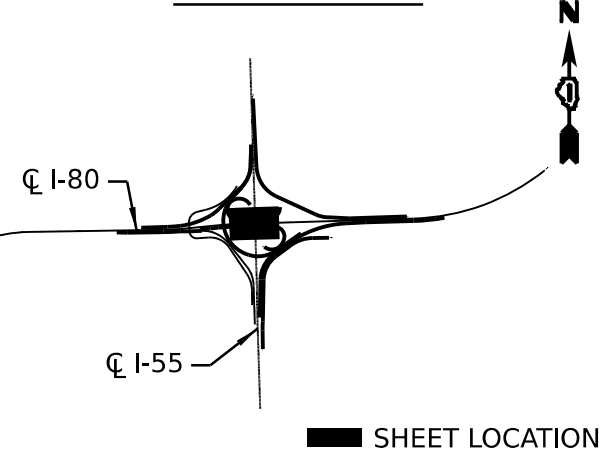
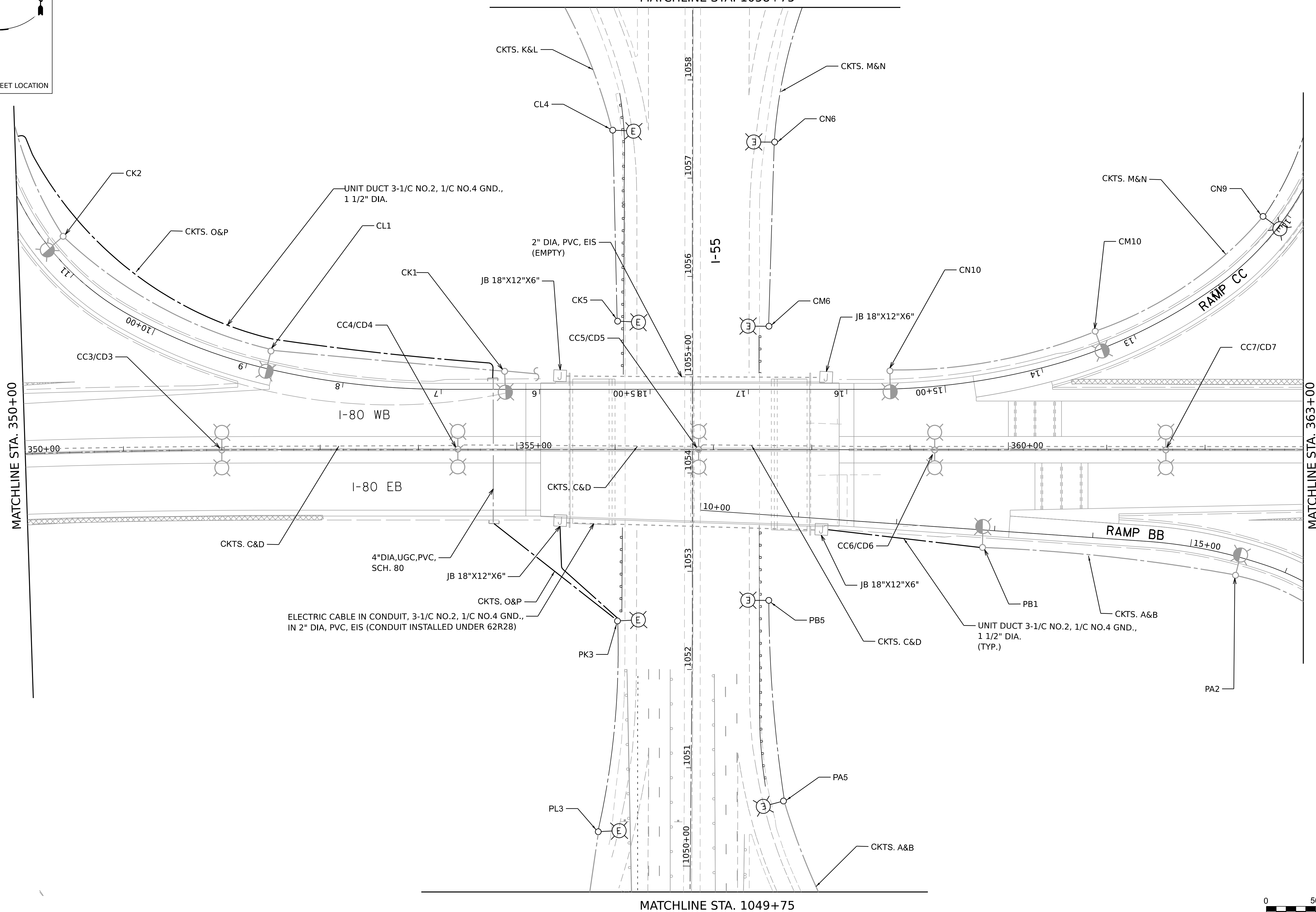


KEY PLAN



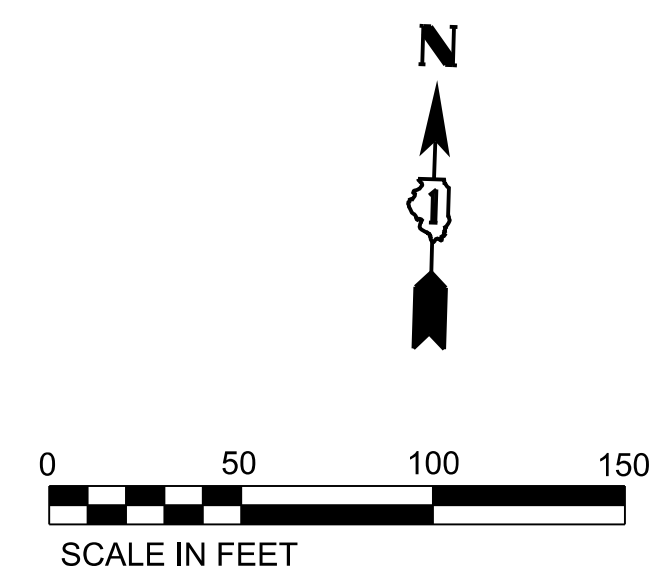
MATCHLINE STA. 1058+75



ELECTRIC CABLE IN CONDUIT, 3-1/C NO.2, 1/C NO.4 GND.,
IN 2" DIA, PVC, EIS (CONDUIT INSTALLED UNDER 62R28)

MATCHLINE STA. 363+00

MATCHLINE STA. 1049+75



MODEL: D:\draft\...
 FILE NAME: ...
 PROJECT: ...
 SHEET: ...



USER NAME = vgruskas	DESIGNED - VG	REVISED -
DRAWN - VG	REVISIONS -	
PLOT SCALE = 50,000' / 1 in.	CHECKED - RP	REVISIONS -
PLOT DATE = 5/31/2024	DATE - 06/04/2024	REVISIONS -

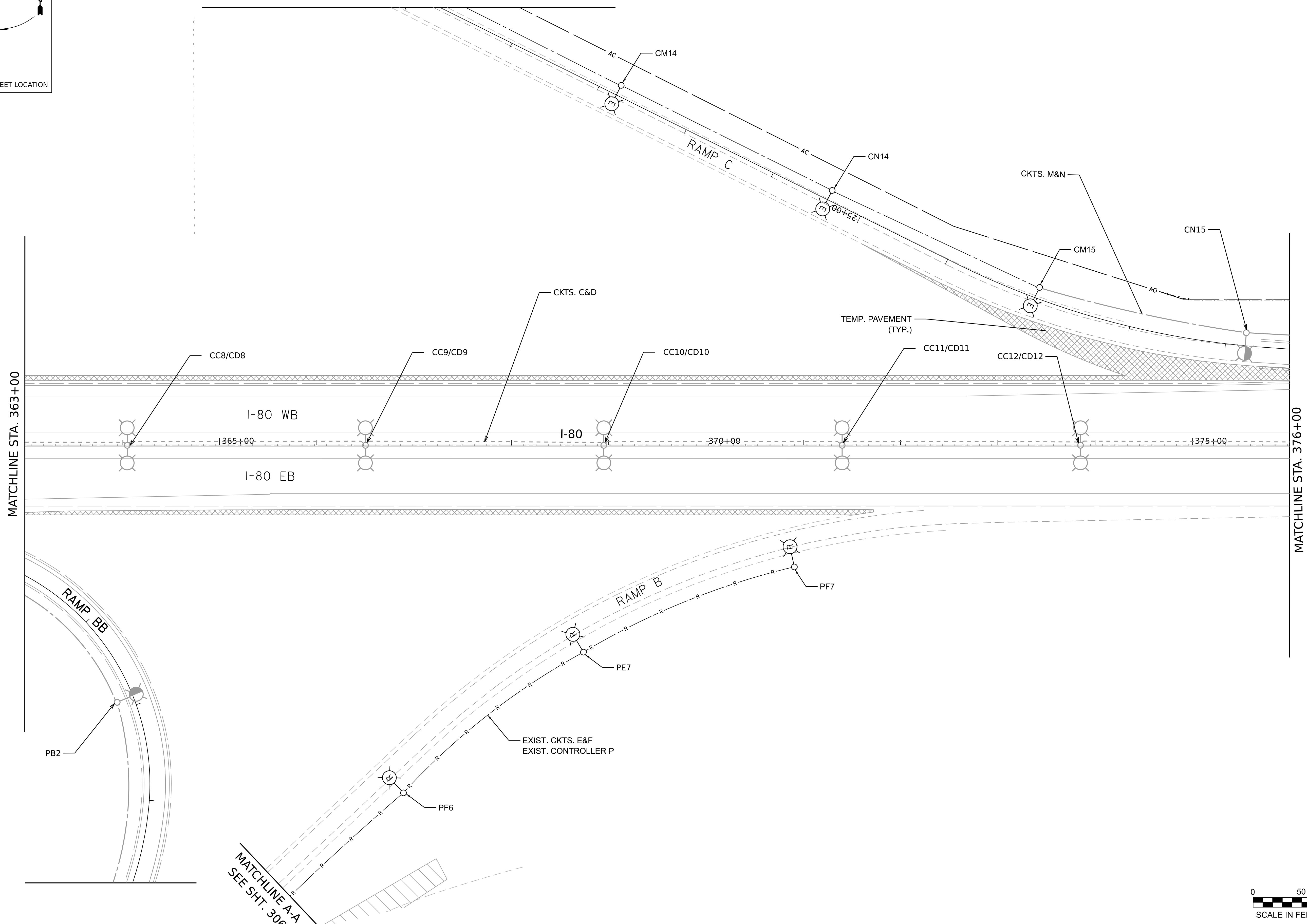
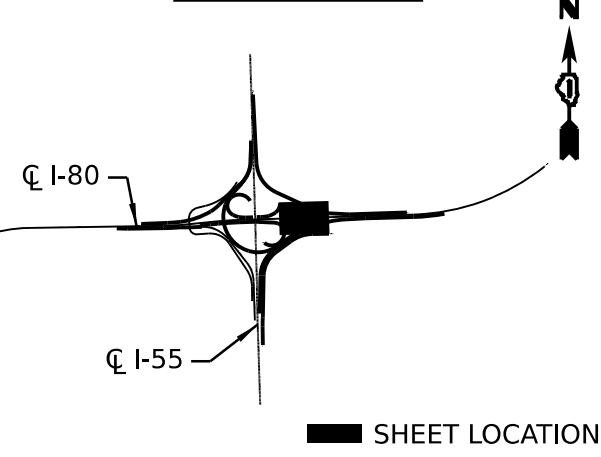
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**LIGHTING REMOVAL AND TEMPORARY LIGHTING PLAN
I-80**

SCALE: 1:50 SHEET 4 OF 29 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	FAI 80 21 INTERCHANGE	WILL	525	301
CONTRACT NO. 62R26				
ILLINOIS FED. AID PROJECT				

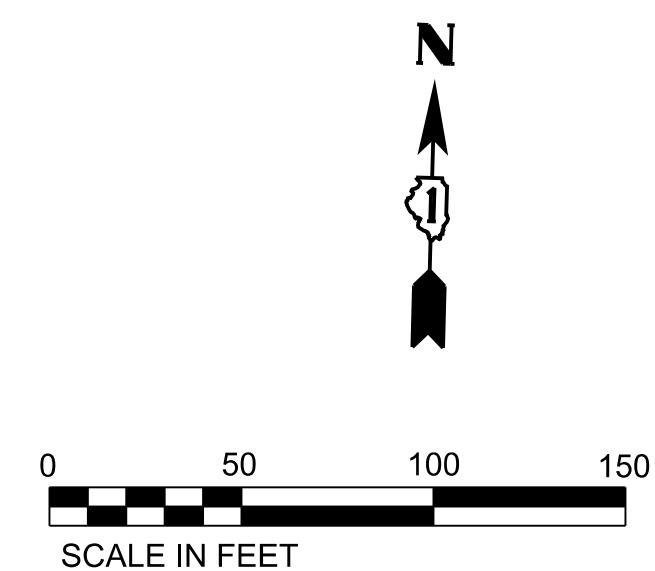
KEY PLAN



MATCHLINE STA. 363+00

MATCHLINE STA. 376+00

MATCHLINE A-A
SEE SHT. 306



MODEL: D:\draft\...
FILE NAME: ...
PROJECT: ...
SHEET: ...



USER NAME = vgvskas	DESIGNED - VG	REVISED -
DRAWN - VG	REVISIONS -	
PLOT SCALE = 50,000' / in.	CHECKED - RP	REVISIONS -
PLOT DATE = 5/31/2024	DATE - 06/04/2024	REVISIONS -

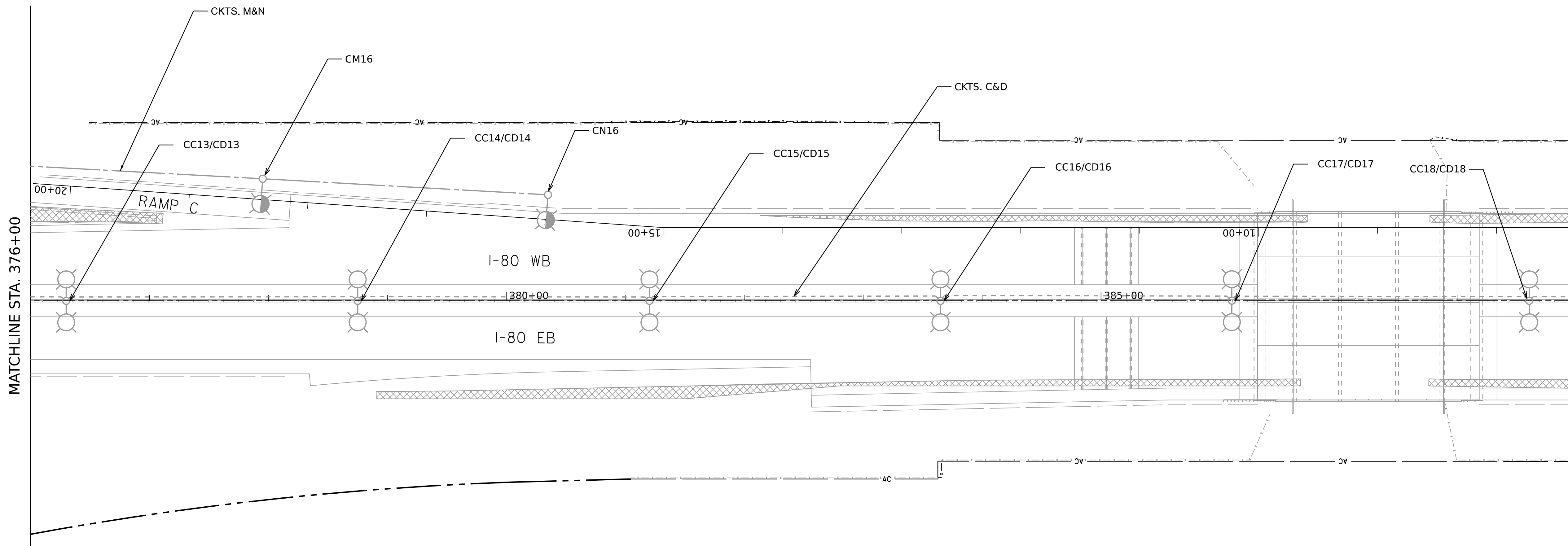
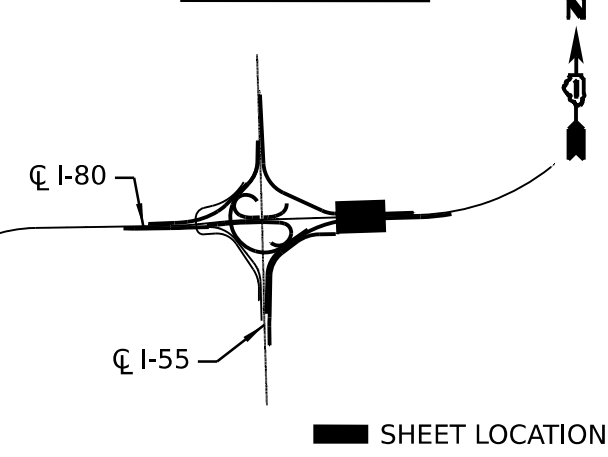
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**LIGHTING REMOVAL AND TEMPORARY LIGHTING PLAN
I-80**

SCALE: 1:50 SHEET 5 OF 29 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	FAI 80 21 INTERCHANGE	WILL	525	302
CONTRACT NO. 62R26				
ILLINOIS FED. AID PROJECT				

KEY PLAN



FOR INFORMATION ONLY



MODEL: D:\draft\...
 FILE NAME: ...
 PROJECT: ...
 DATE: 06/04/2024



USER NAME = vqurskas	DESIGNED - VG	REVISED -
DRAWN - VG	REVISIONS -	
PLOT SCALE = 50,000' / in.	CHECKED - RP	REVISED -
PLOT DATE = 5/31/2024	DATE - 06/04/2024	REVISED -

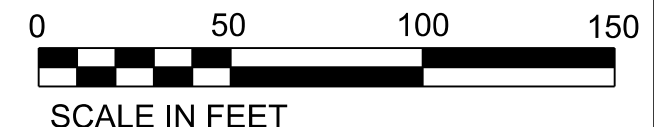
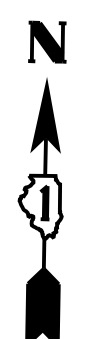
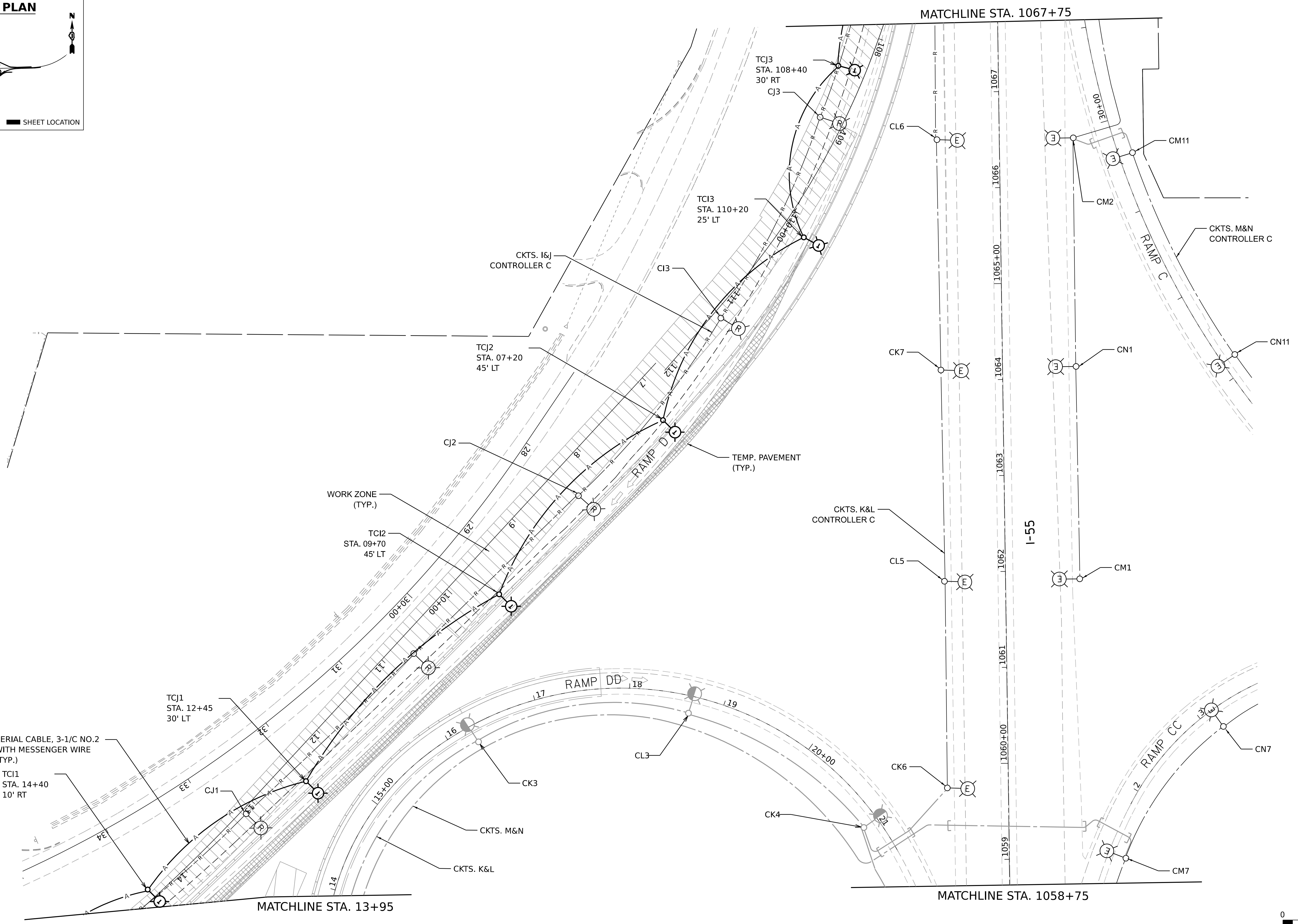
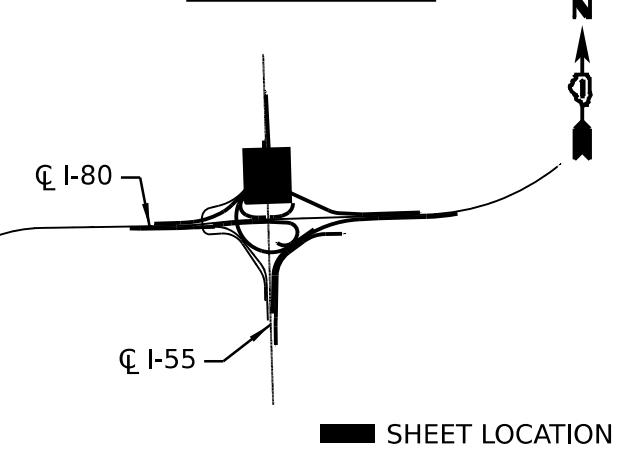
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**LIGHTING REMOVAL AND TEMPORARY LIGHTING PLAN
I-80**

SCALE: 1:50 SHEET 6 OF 29 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	FAI 80 21 INTERCHANGE	WILL	525	303
CONTRACT NO. 62R26				
ILLINOIS FED. AID PROJECT				

KEY PLAN



MODEL: D:\draft\...
 FILE NAME: ...
 PROJECT: ...
 SHEET: ...



USER NAME = vgruskas	DESIGNED - VG	REVISED -
PLOT SCALE = 50,000' / in.	DRAWN - VG	REVISED -
PLOT DATE = 5/31/2024	CHECKED - RP	REVISED -
	DATE - 06/04/2024	REVISED -

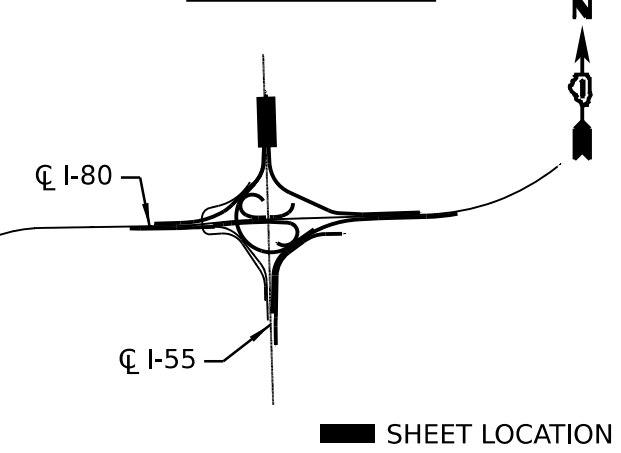
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**LIGHTING REMOVAL AND TEMPORARY LIGHTING PLAN
I-80**

SCALE: 1:50 SHEET 7 OF 29 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	FAI 80 21 INTERCHANGE	WILL	525	304
CONTRACT NO. 62R26				
ILLINOIS FED. AID PROJECT				

KEY PLAN



TEMPORARY PAVEMENT (TYP.)

TCJ7
STA 1079+80
80' LT

AERIAL CABLE, 3-1/C NO.2
WITH MESSENGER WIRE
(TYP.)

CK10

TCI7
STA 1078+20
85' LT

CKTS. K&L

CL8

TCJ6
STA 1076+60
86' LT

MATCHLINE STA. 1076+50

I-55

CN5

CM5

CKTS. M&N

CN4

MATCHLINE STA. 1076+50

CK9

TCI6
STA. 100+50
50' RT

TCJ5
STA. 102+10
45' RT

CL7

CKTS. K&L

TCI5
STA. 103+75
30' RT

CJ4

TCJ4
STA. 105+35
55' RT

WORK AREA (TYP.)

TCI4
STA. 106+90
30' RT

AERIAL CABLE, 3-1/C NO.2
WITH MESSENGER WIRE
(TYP.)

CK8

CI4

MATCHLINE STA. 1067+75

I-55

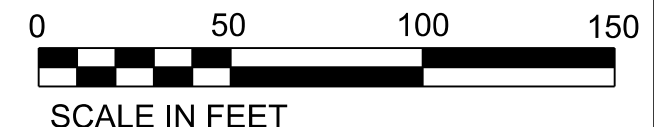
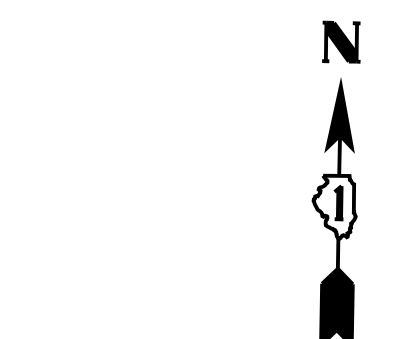
CM4

CN3

CKTS. M&N

CM3

CN2



MODEL: D:\draft\... FILE NAME: ... PROJECT: ...



USER NAME = vgvskas	DESIGNED - VG	REVISED -
DRAWN - VG	REVISED -	
PLOT SCALE = 50,000' / in.	CHECKED - RP	REVISED -
PLOT DATE = 5/31/2024	DATE - 06/04/2024	REVISED -

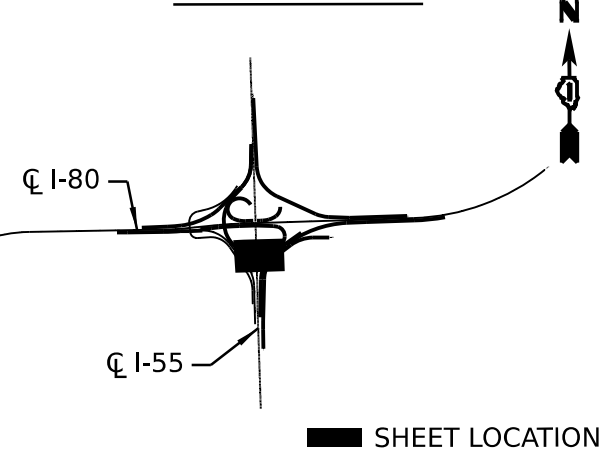
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**LIGHTING REMOVAL AND TEMPORARY LIGHTING PLAN
I-80**

SCALE: 1:50 SHEET 8 OF 29 SHEETS STA. TO STA.

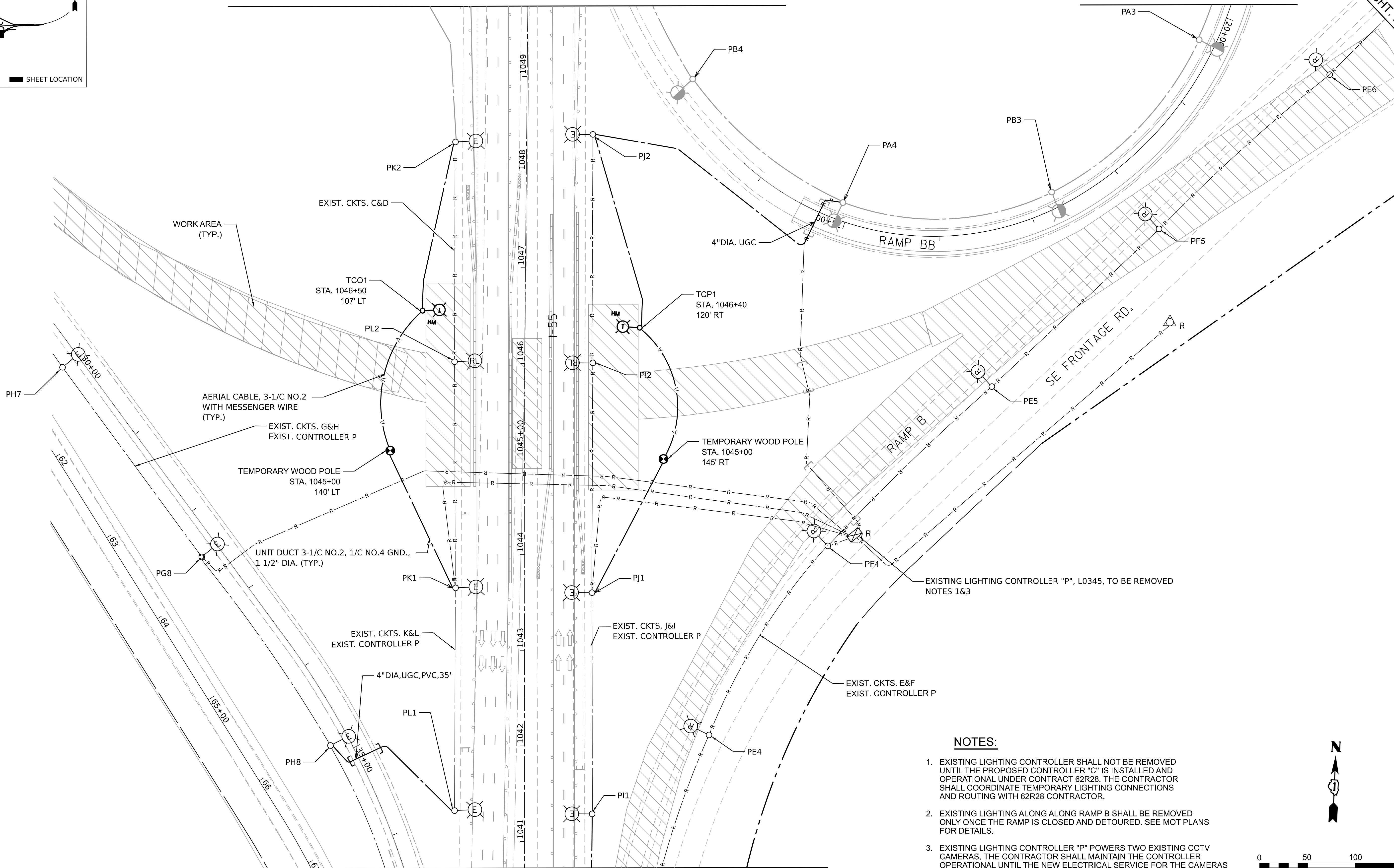
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	FAI 80 21 INTERCHANGE	WILL	525	305
CONTRACT NO. 62R26				
ILLINOIS FED. AID PROJECT				

KEY PLAN



MATCHLINE STA. 1049+75

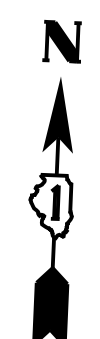
MATCHLINE A-A
SEE SHT. 302



MATCHLINE STA. 1040+70

NOTES:

1. EXISTING LIGHTING CONTROLLER SHALL NOT BE REMOVED UNTIL THE PROPOSED CONTROLLER "C" IS INSTALLED AND OPERATIONAL UNDER CONTRACT 62R28. THE CONTRACTOR SHALL COORDINATE TEMPORARY LIGHTING CONNECTIONS AND ROUTING WITH 62R28 CONTRACTOR.
2. EXISTING LIGHTING ALONG RAMP B SHALL BE REMOVED ONLY ONCE THE RAMP IS CLOSED AND DETOURED. SEE MOT PLANS FOR DETAILS.
3. EXISTING LIGHTING CONTROLLER "P" POWERS TWO EXISTING CCTV CAMERAS. THE CONTRACTOR SHALL MAINTAIN THE CONTROLLER OPERATIONAL UNTIL THE NEW ELECTRICAL SERVICE FOR THE CAMERAS IS INSTALLED. SEE ITS PLANS FOR ADDITIONAL DETAILS.



MODEL: D:\draft\...
 FILE NAME: ...
 PROJECT: ...
 SHEET: ...



USER NAME = vgruskas	DESIGNED - VG	REVISED -
PLOT SCALE = 50,000' / 1 in.	DRAWN - VG	REVISED -
PLOT DATE = 5/31/2024	CHECKED - RP	REVISED -
	DATE - 06/04/2024	REVISED -

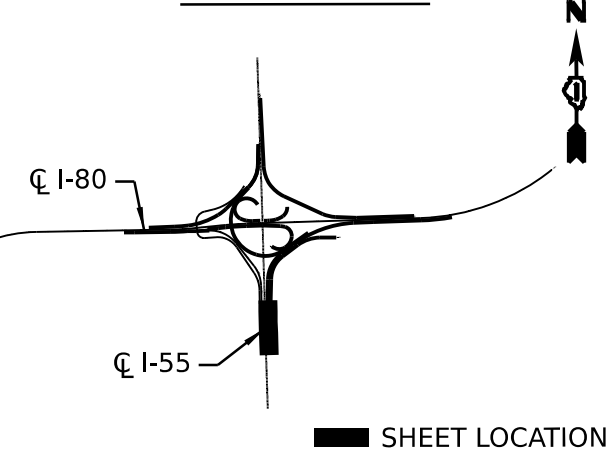
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**LIGHTING REMOVAL AND TEMPORARY LIGHTING PLAN
I-80**

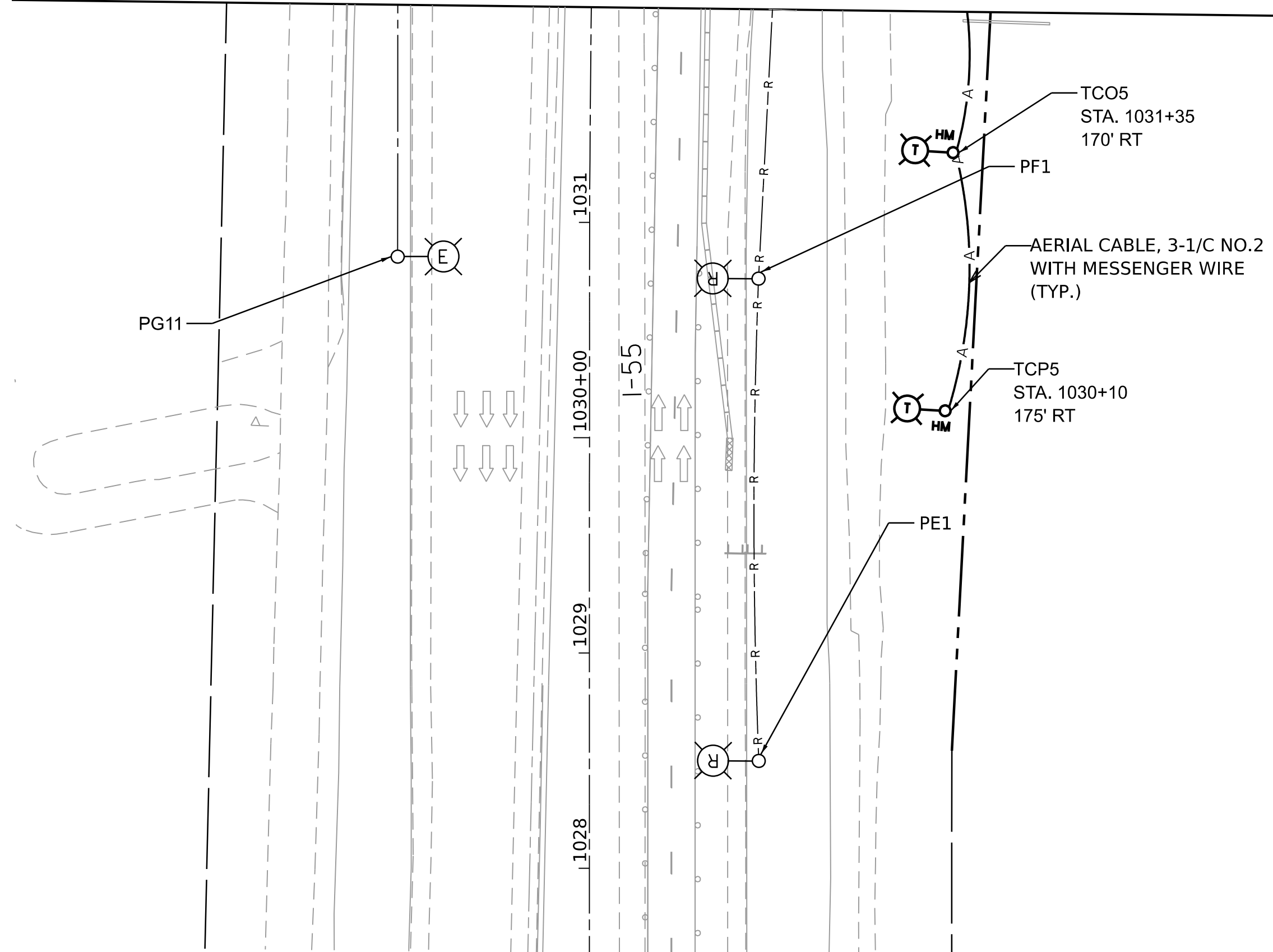
SCALE: 1:50 SHEET 9 OF 29 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	FAI 80 21 INTERCHANGE	WILL	525	306
CONTRACT NO. 62R26				
ILLINOIS FED. AID PROJECT				

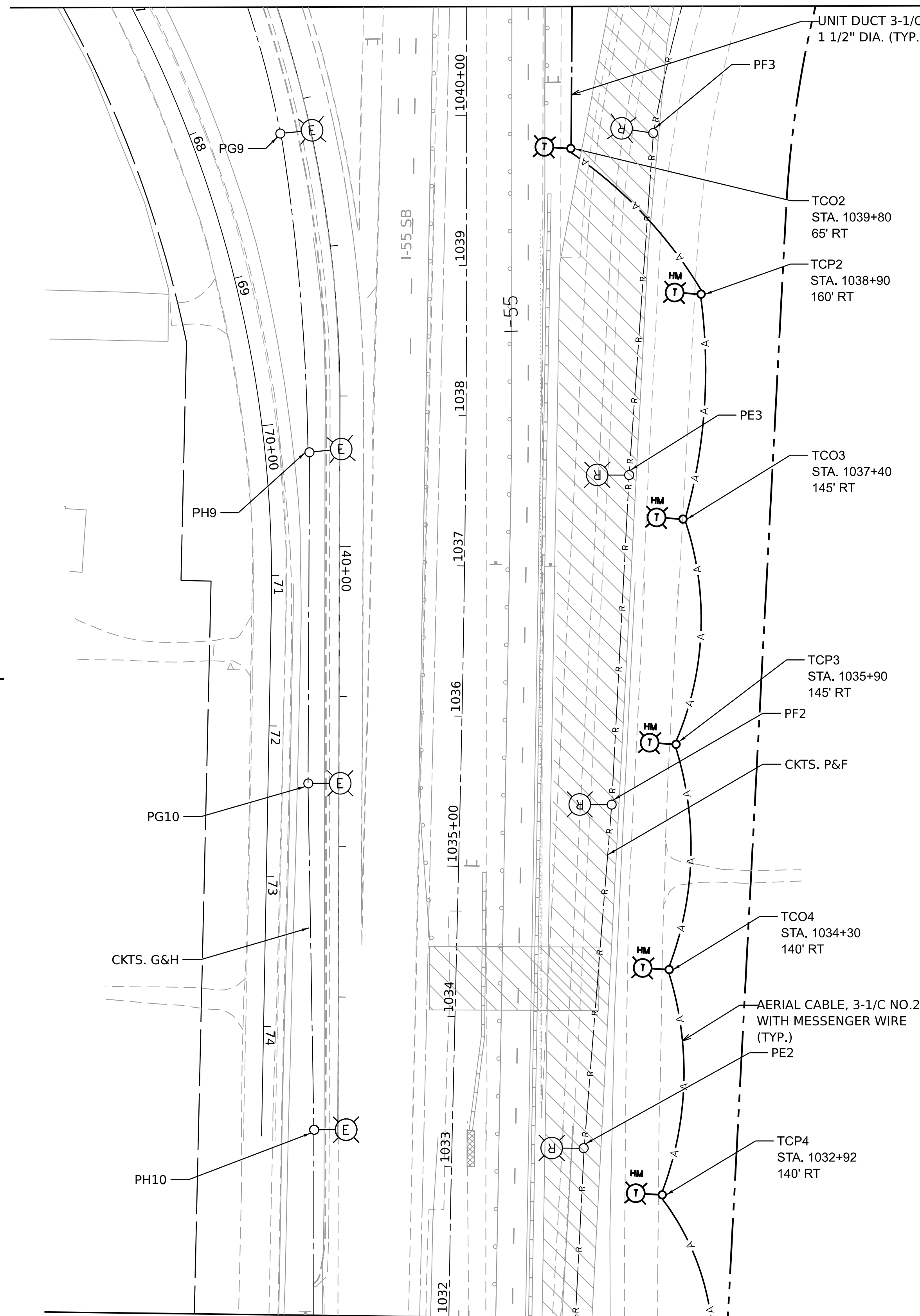
KEY PLAN



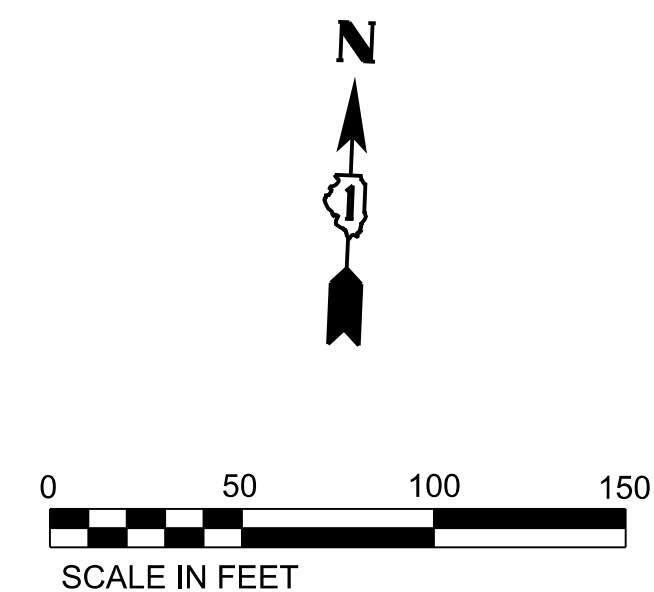
MATCHLINE STA. 1032+00



MATCHLINE STA. 1040+70



MATCHLINE STA. 1032+00



MODEL: D:\draft\...
 FILE NAME: ...
 PROJECT: ...
 SHEET: ...



USER NAME = vgruskas	DESIGNED - VG	REVISED -
PLOT SCALE = 50,000' / in.	DRAWN - VG	REVISED -
PLOT DATE = 5/31/2024	CHECKED - RP	REVISED -
	DATE - 06/04/2024	REVISED -

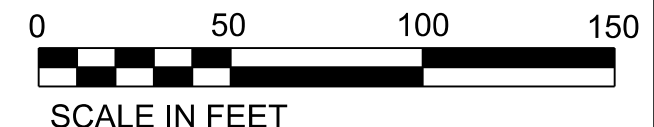
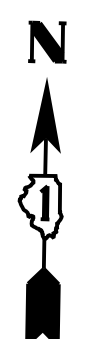
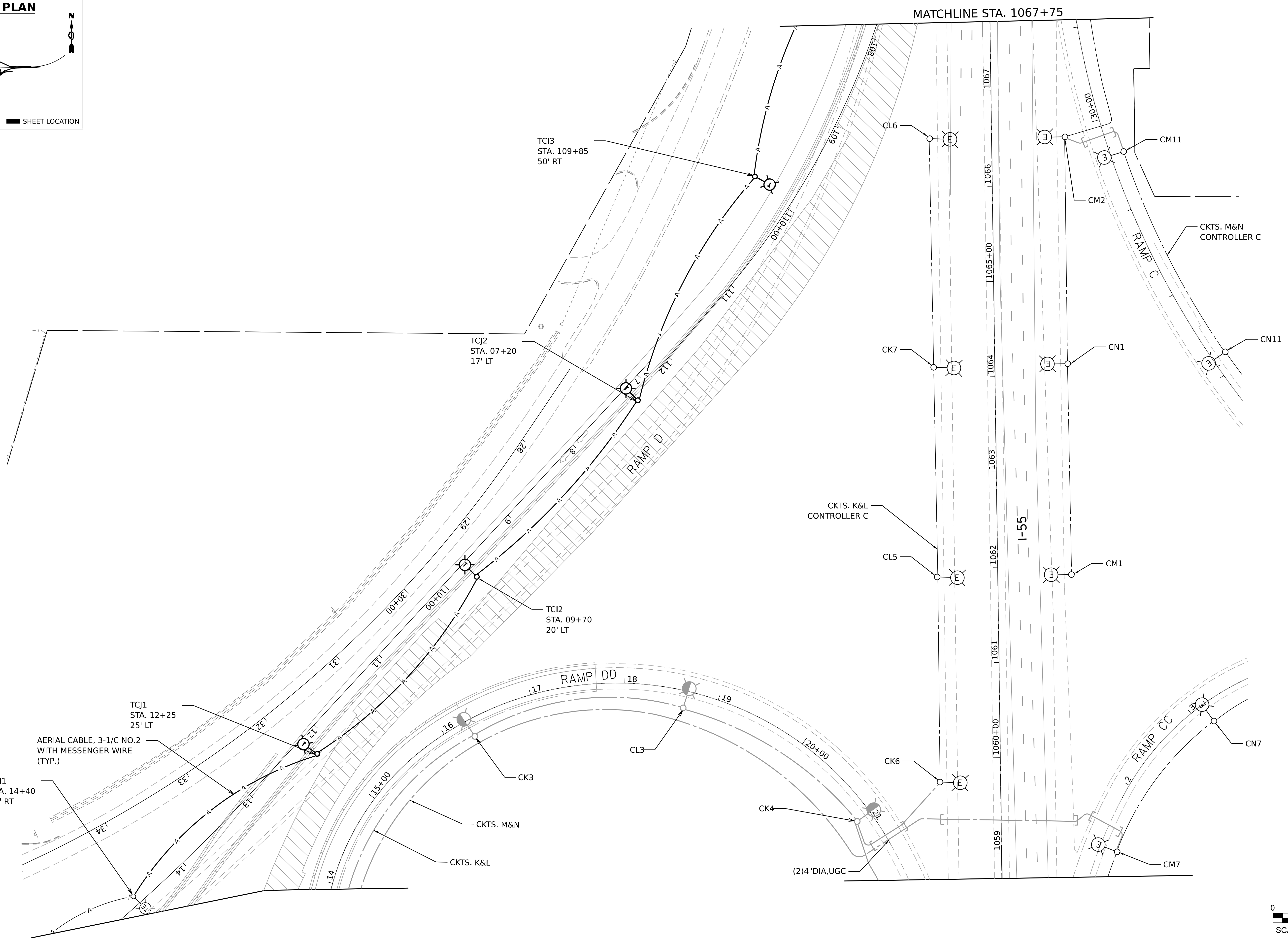
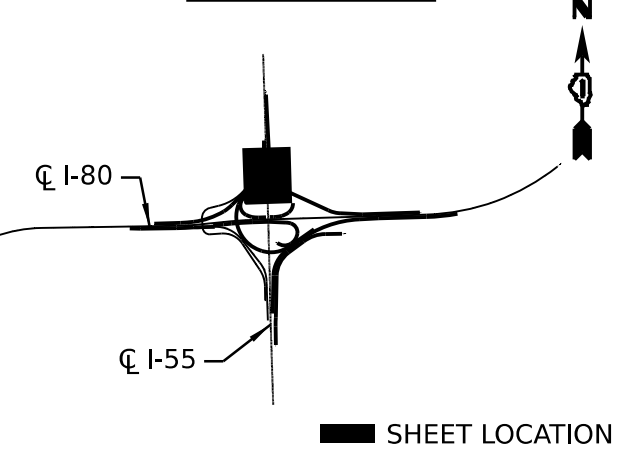
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**LIGHTING REMOVAL AND TEMPORARY LIGHTING PLAN
I-80**

SCALE: 1:50 SHEET 10 OF 29 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	FAI 80 21 INTERCHANGE	WILL	525	307
CONTRACT NO. 62R26				
ILLINOIS FED. AID PROJECT				

KEY PLAN



MODEL: D:\draft\...
 FILE NAME: ...
 PROJECT: ...
 SHEET: ...



USER NAME = vgvskas	DESIGNED - VG	REVISED -
PLOT SCALE = 50,000' / in.	DRAWN - VG	REVISED -
PLOT DATE = 5/31/2024	CHECKED - RP	REVISED -
	DATE - 06/04/2024	REVISED -

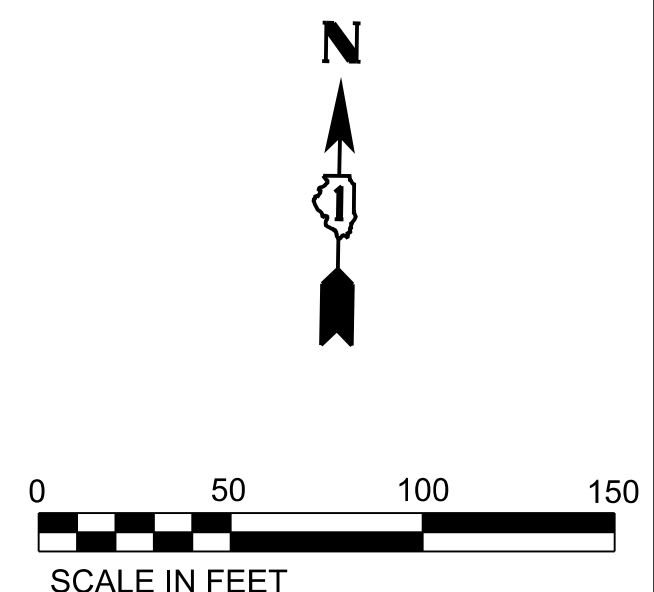
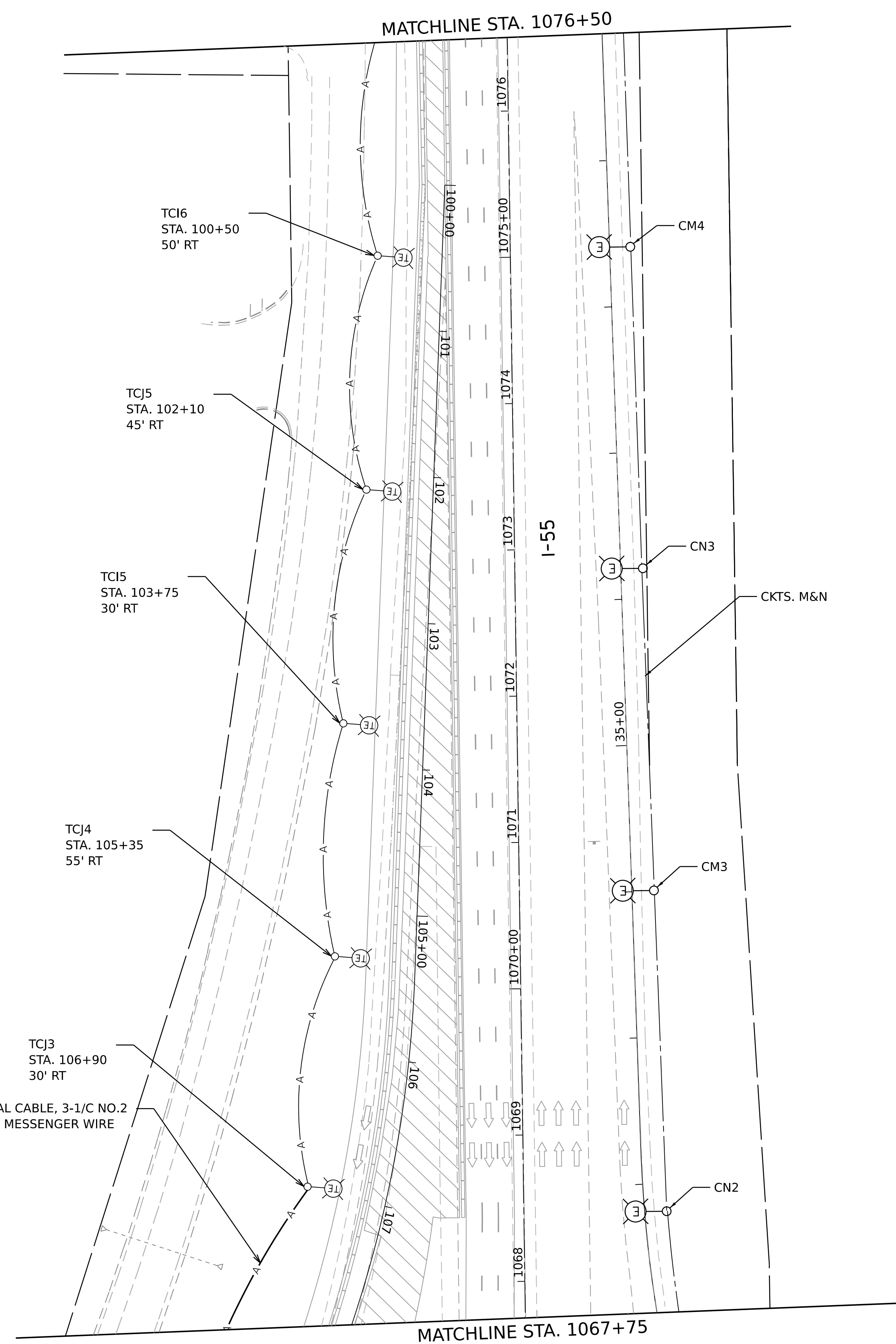
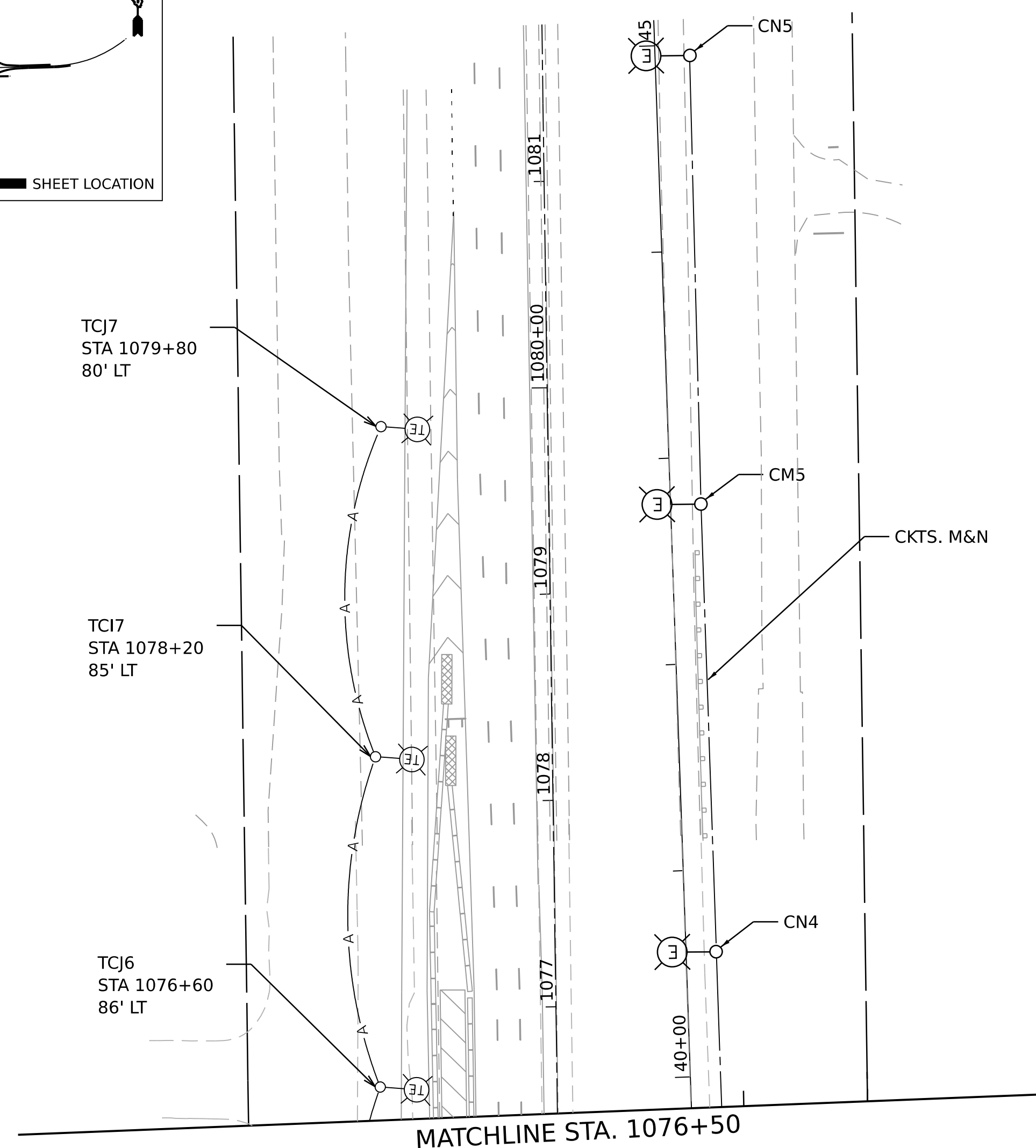
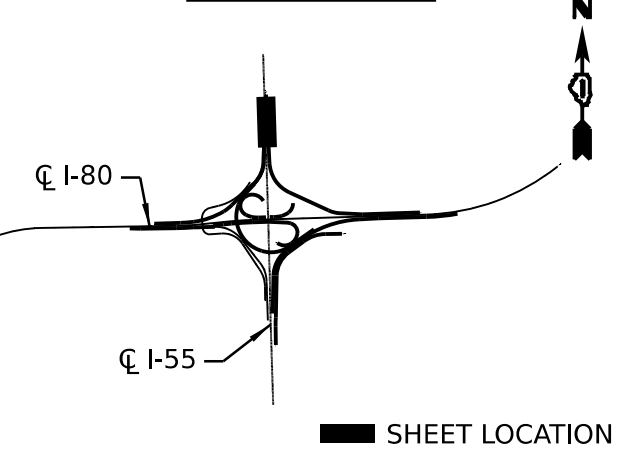
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**LIGHTING REMOVAL AND TEMPORARY LIGHTING PLAN
I-80 - STAGE 2B**

SCALE: 1:50 SHEET 11 OF 29 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	FAI 80 21 INTERCHANGE	WILL	525	308
CONTRACT NO. 62R26				
ILLINOIS FED. AID PROJECT				

KEY PLAN



MODEL: D:\draft\...
 FILE NAME: ...
 PROJECT: ...
 SHEET: ...



USER NAME = vgruskas	DESIGNED - VG	REVISED -
DRAWN - VG	REVISIONS -	
PLOT SCALE = 50,000' / in.	CHECKED - RP	REVISED -
PLOT DATE = 5/31/2024	DATE - 06/04/2024	REVISED -

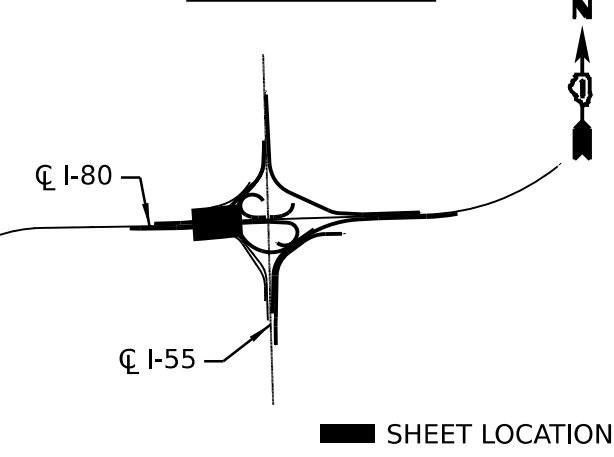
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**LIGHTING REMOVAL AND TEMPORARY LIGHTING PLAN
I-80 - STAGE 2B**

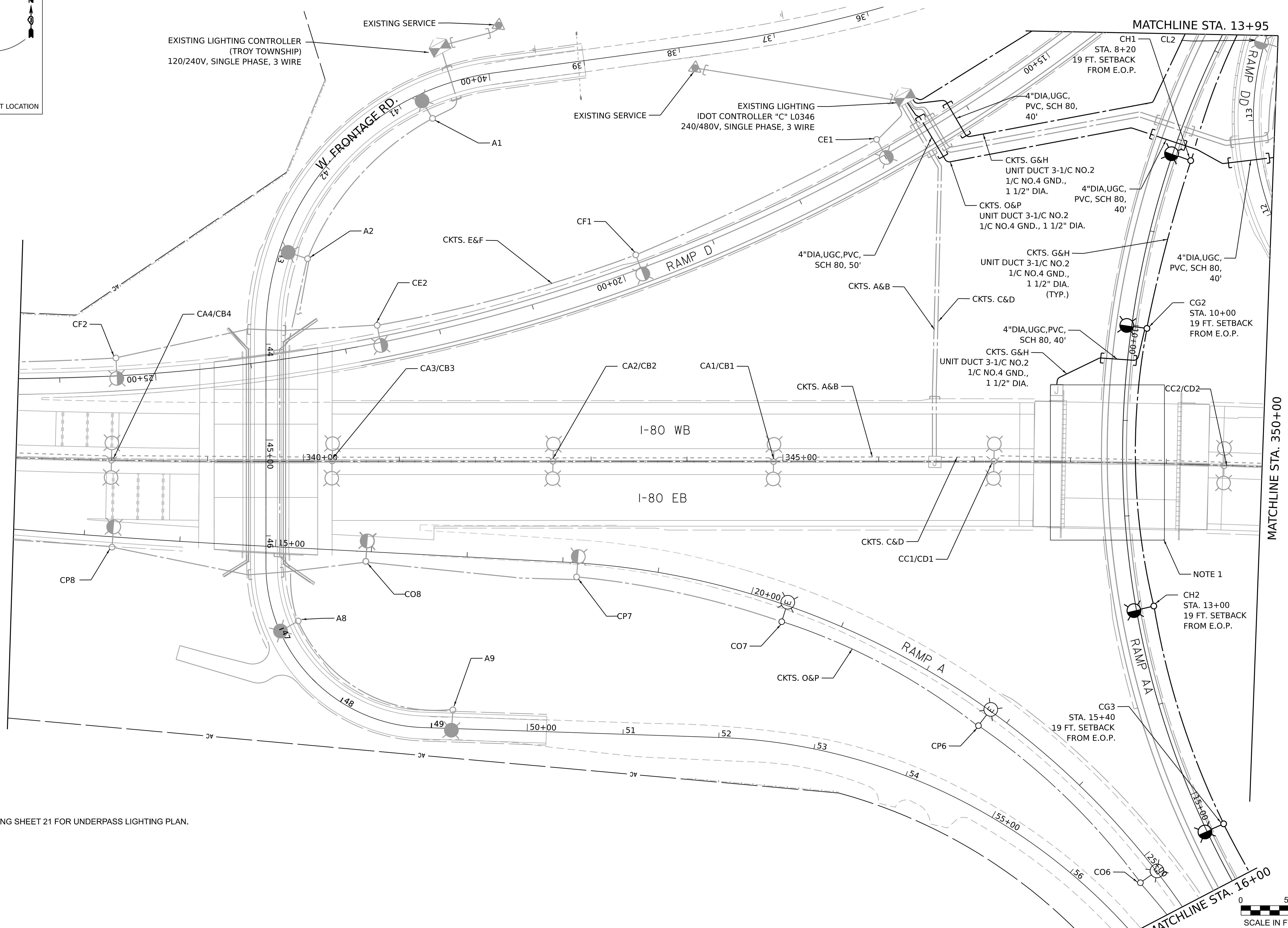
SCALE: 1:50 SHEET 12 OF 29 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	FAI 80 21 INTERCHANGE	WILL	525	309
CONTRACT NO. 62R26				
ILLINOIS FED. AID PROJECT				

KEY PLAN



SHEET LOCATION



EXISTING LIGHTING CONTROLLER
(TROY TOWNSHIP)
120/240V, SINGLE PHASE, 3 WIRE

EXISTING LIGHTING
IDOT CONTROLLER "C" L0346
240/480V, SINGLE PHASE, 3 WIRE

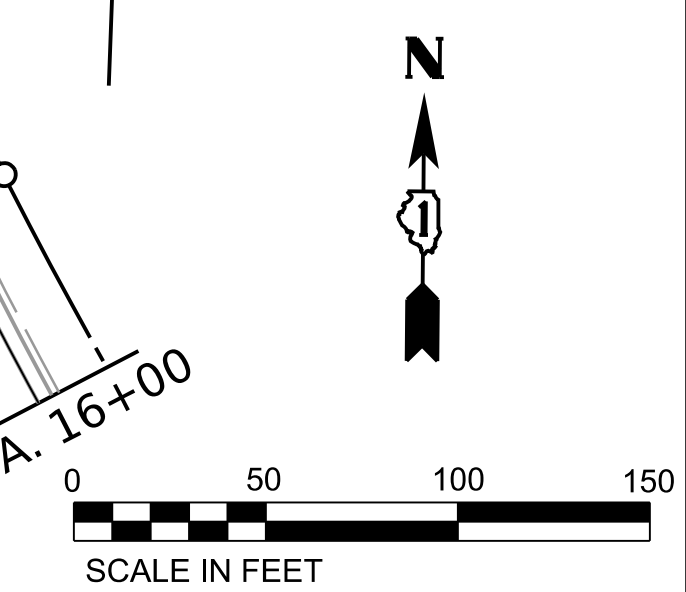
MATCHLINE STA. 13+95

MATCHLINE STA. 350+00

MATCHLINE STA. 16+00

NOTES:

- 1. SEE LIGHTING SHEET 21 FOR UNDERPASS LIGHTING PLAN.



MODEL: D:\draft\...
 FILE NAME: ...
 PROJECT: ...
 SHEET: ...



USER NAME = vgruskas	DESIGNED - VG	REVISED -
DRAWN - VG	REVISED -	
PLOT SCALE = 50,000' / in.	CHECKED - RP	REVISED -
PLOT DATE = 5/31/2024	DATE - 06/04/2024	REVISED -

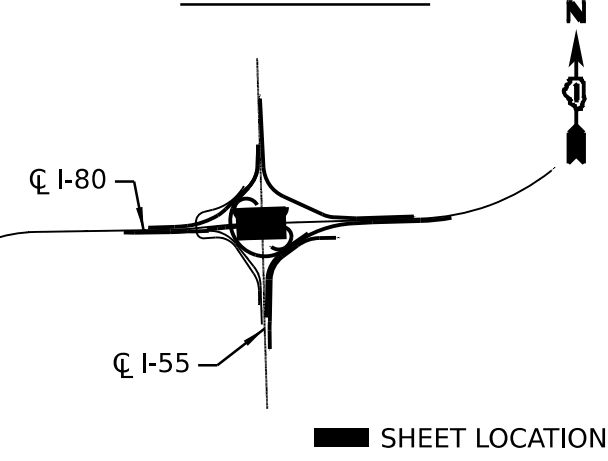
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PROPOSED LIGHTING PLAN
I-80**

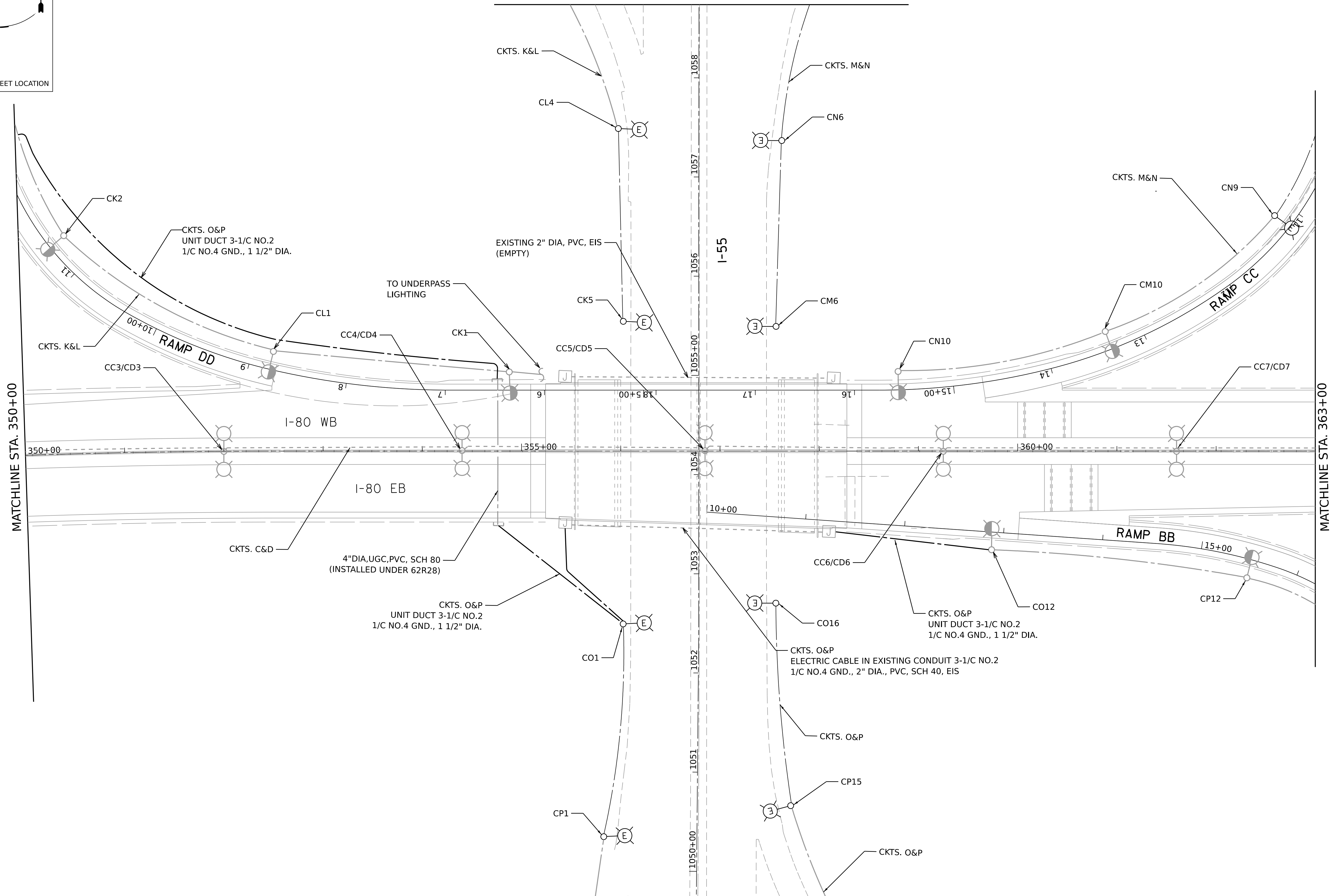
SCALE: 1:50 SHEET 13 OF 29 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	FAI 80 21 INTERCHANGE	WILL	525	310
CONTRACT NO. 62R26				
ILLINOIS		FED. AID PROJECT		

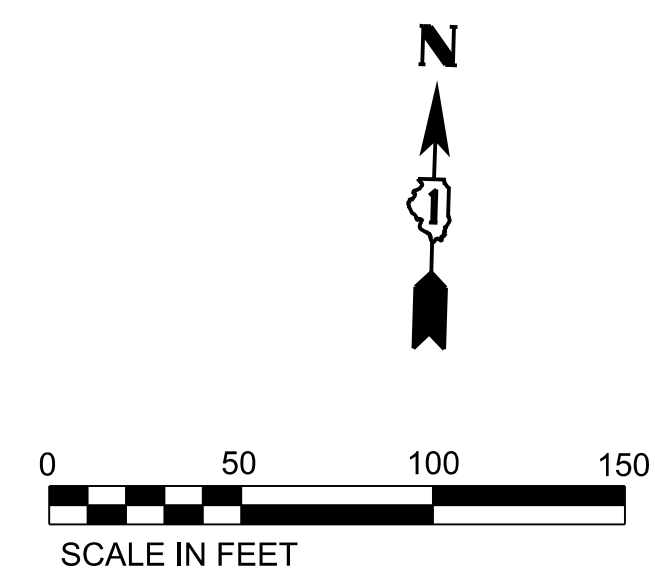
KEY PLAN



MATCHLINE STA. 1058+75



MATCHLINE STA. 1049+75



MODEL: D:\draft\...
 FILE NAME: ...
 PROJECT: ...
 SHEET: ...
 DATE: ...



USER NAME = vgruskas	DESIGNED - VG	REVISED -
DRAWN - VG	REVISED -	
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PLOT DATE = 5/31/2024	DATE - 06/04/2024	REVISED -

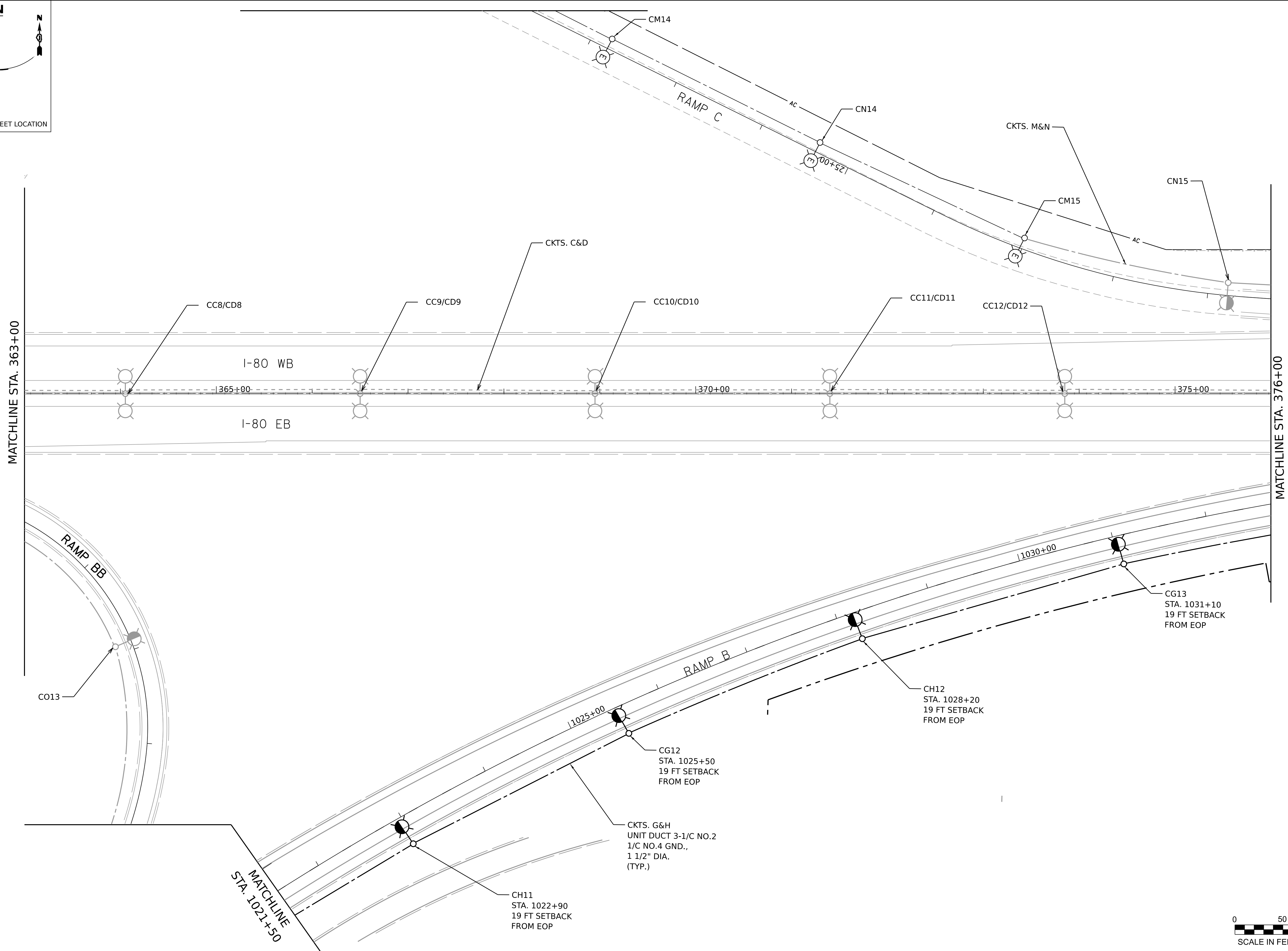
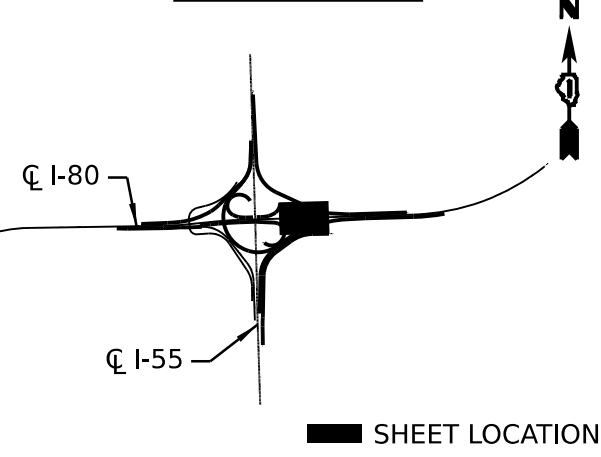
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PROPOSED LIGHTING PLAN
I-80**

SCALE: 1:50 SHEET 14 OF 29 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	FAI 80 21 INTERCHANGE	WILL	525	311
CONTRACT NO. 62R26				
ILLINOIS FED. AID PROJECT				

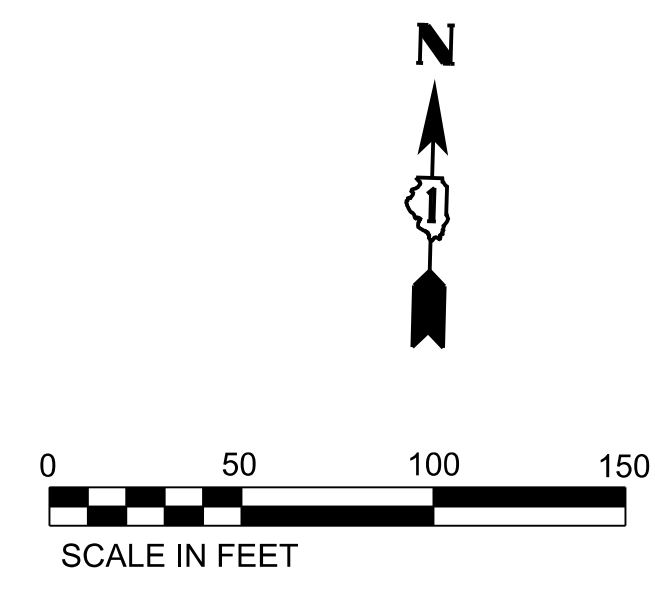
KEY PLAN



MATCHLINE STA. 363+00

MATCHLINE STA. 376+00

MATCHLINE STA. 1021+50



MODEL: D:\draft\... FILE NAME: ... PROJECT: ...



USER NAME = vgruskas	DESIGNED - VG	REVISD -
PLOT SCALE = 50,000' / in.	DRAWN - VG	REVISD -
PLOT DATE = 5/31/2024	CHECKED - RP	REVISD -
	DATE - 06/04/2024	REVISD -

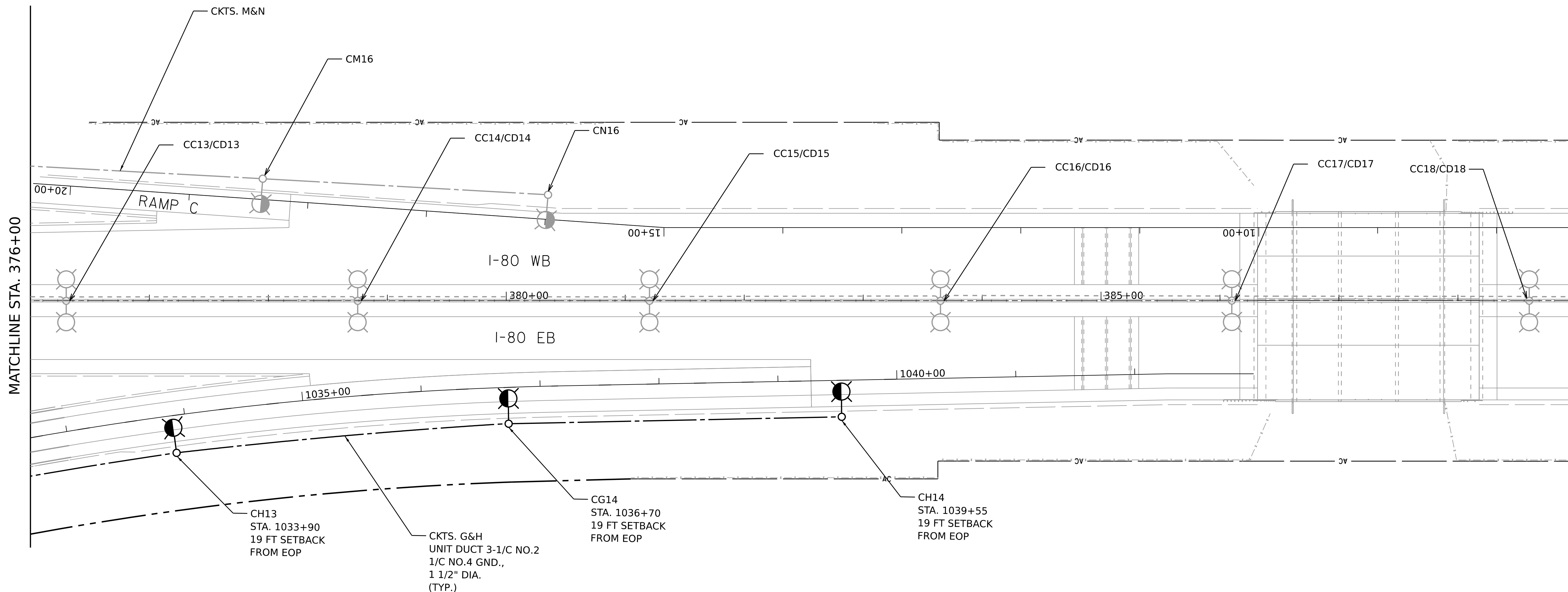
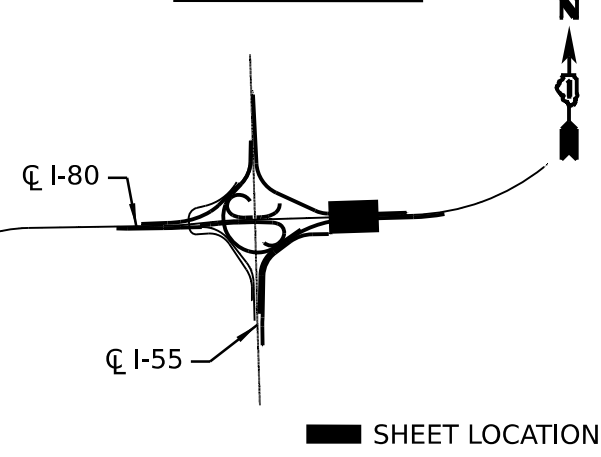
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PROPOSED LIGHTING PLAN
I-80**

SCALE: 1:50 SHEET 15 OF 29 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	FAI 80 21 INTERCHANGE	WILL	525	312
CONTRACT NO. 62R26				
ILLINOIS FED. AID PROJECT				

KEY PLAN

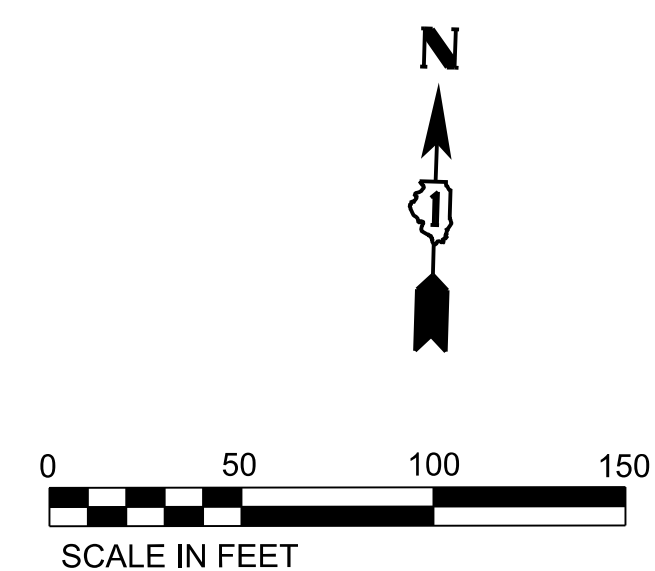


CH13
STA. 1033+90
19 FT SETBACK
FROM EOP

CKTS. G&H
UNIT DUCT 3-1/C NO.2
1/C NO.4 GND.,
1 1/2" DIA.
(TYP.)

CG14
STA. 1036+70
19 FT SETBACK
FROM EOP

CH14
STA. 1039+55
19 FT SETBACK
FROM EOP



MODEL: D:\draft\...
FILE NAME: ...
PROJECT: ...
DATE: 2018/04/01 18:02:20
DRAWN BY: ...
CHECKED BY: ...
DATE: 06/04/2024



USER NAME = vgvskas	DESIGNED - VG	REVISED -
DRAWN - VG	REVISIONS -	
PLOT SCALE = 50,000' / in.	CHECKED - RP	REVISED -
PLOT DATE = 5/31/2024	DATE - 06/04/2024	REVISED -

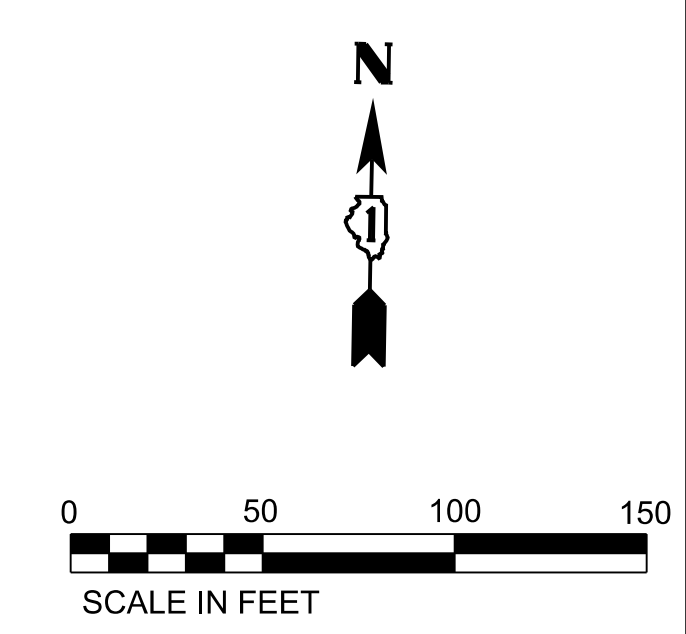
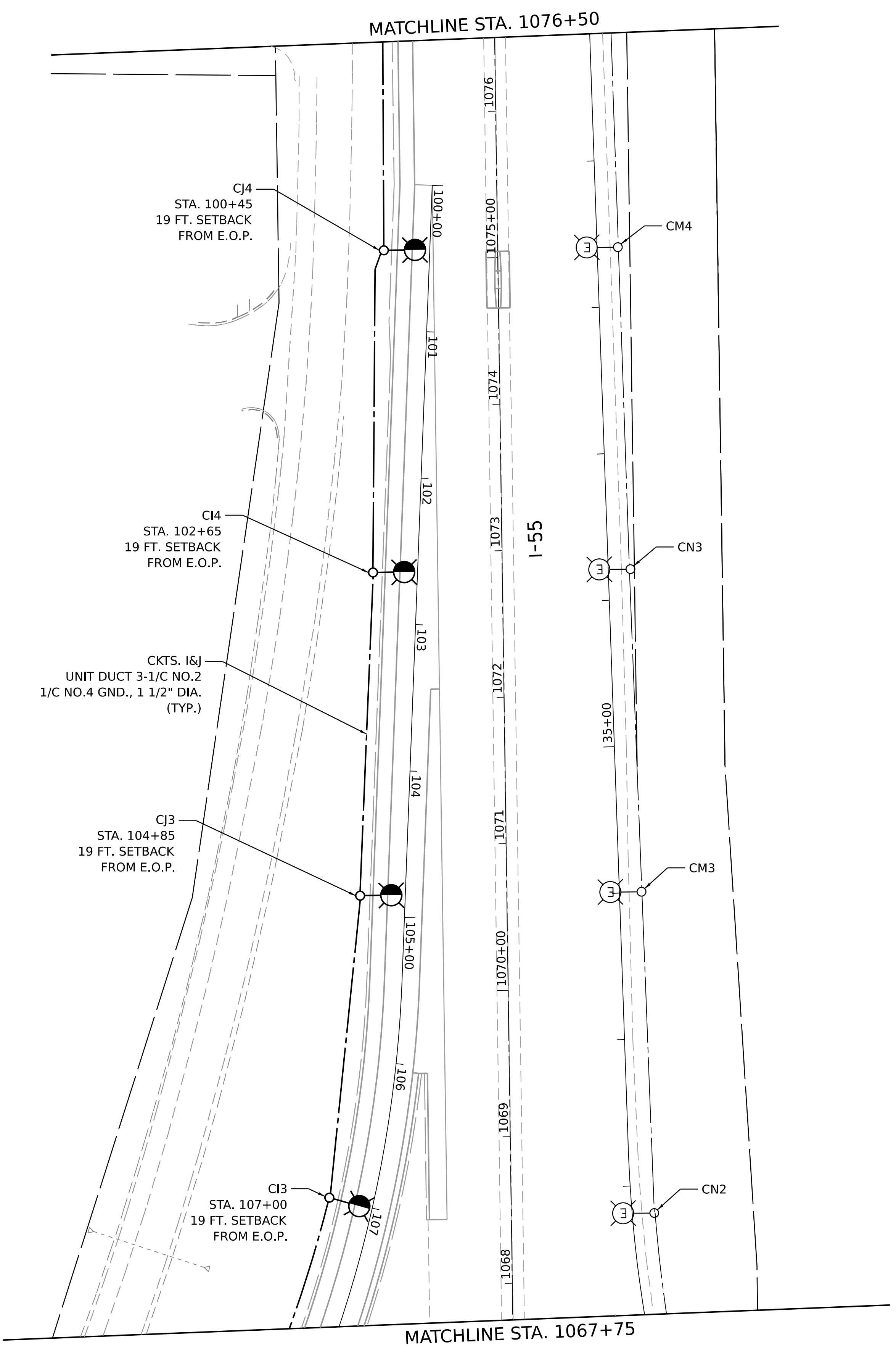
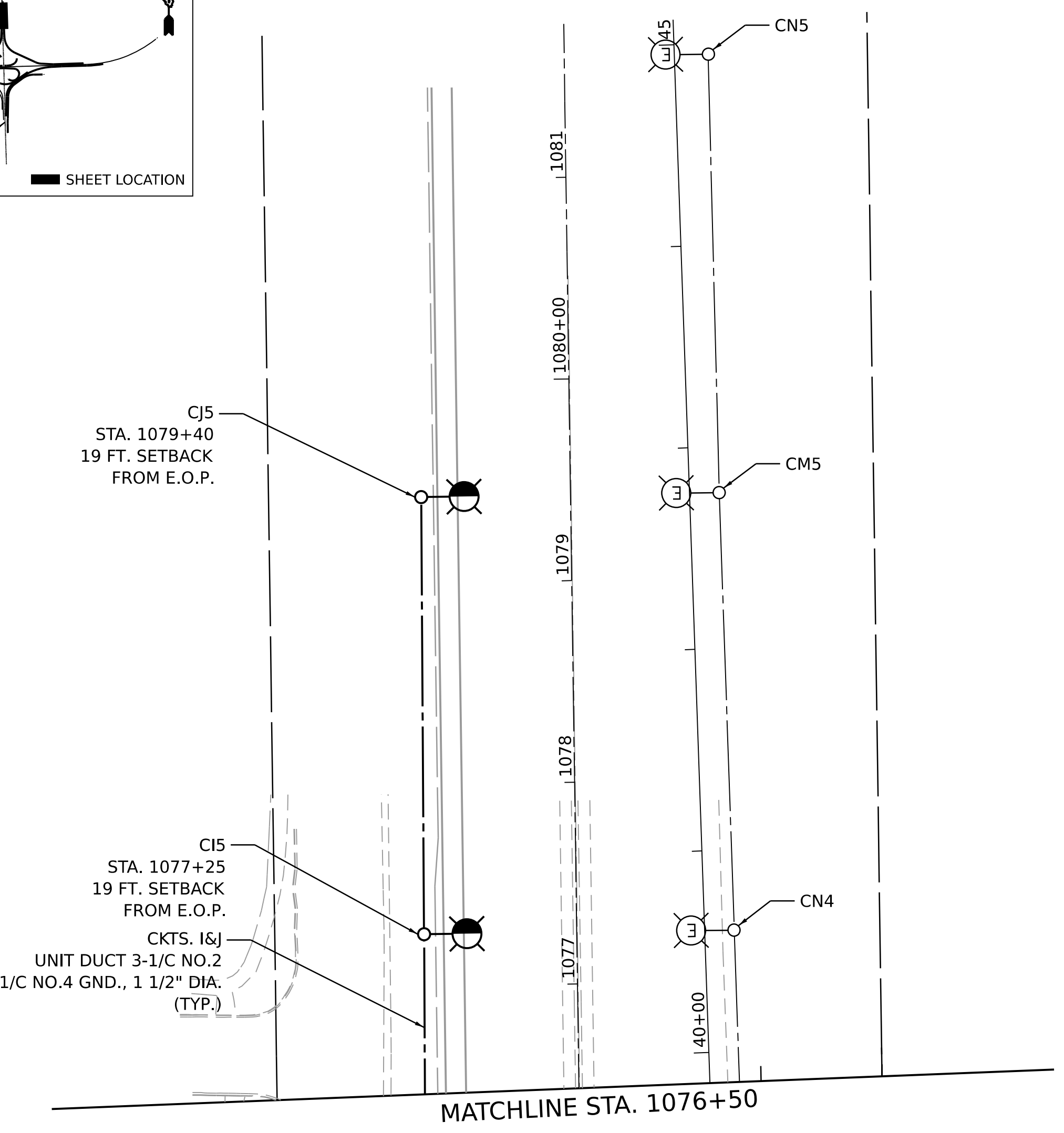
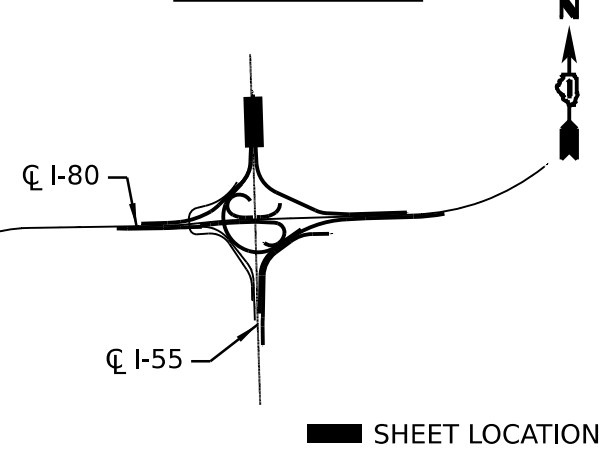
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PROPOSED LIGHTING PLAN
I-80**

SCALE: 1:50 SHEET 16 OF 29 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	FAI 80 21 INTERCHANGE	WILL	525	313
CONTRACT NO. 62R26				
ILLINOIS FED. AID PROJECT				

KEY PLAN



MODEL: D:\draft...
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 PROJECT: ...
 SHEET: ...



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DRAWN - VG	REVISED -	
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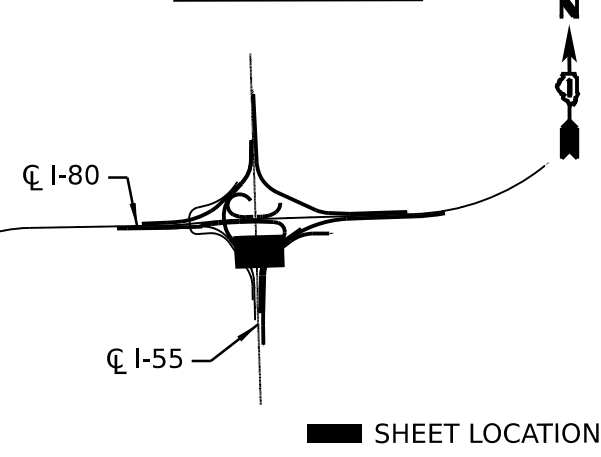
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PROPOSED LIGHTING PLAN
I-80**

SCALE: 1:50 SHEET 18 OF 29 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	FAI 80 21 INTERCHANGE	WILL	525	315
CONTRACT NO. 62R26				
ILLINOIS FED. AID PROJECT				

KEY PLAN



MATCHLINE STA. 16+00
SEE SHT. 310

MATCHLINE STA. 1049+75

MATCHLINE STA. 1021+50

MATCHLINE STA. 18+00

MATCHLINE STA. 18+00

60+00

61

62

63

64

65+00

66

67

68

1049

1048

1047

1046

1045+00

1044

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1042

1041

1040+00

1041

1049

1048

1047

1046

1045+00

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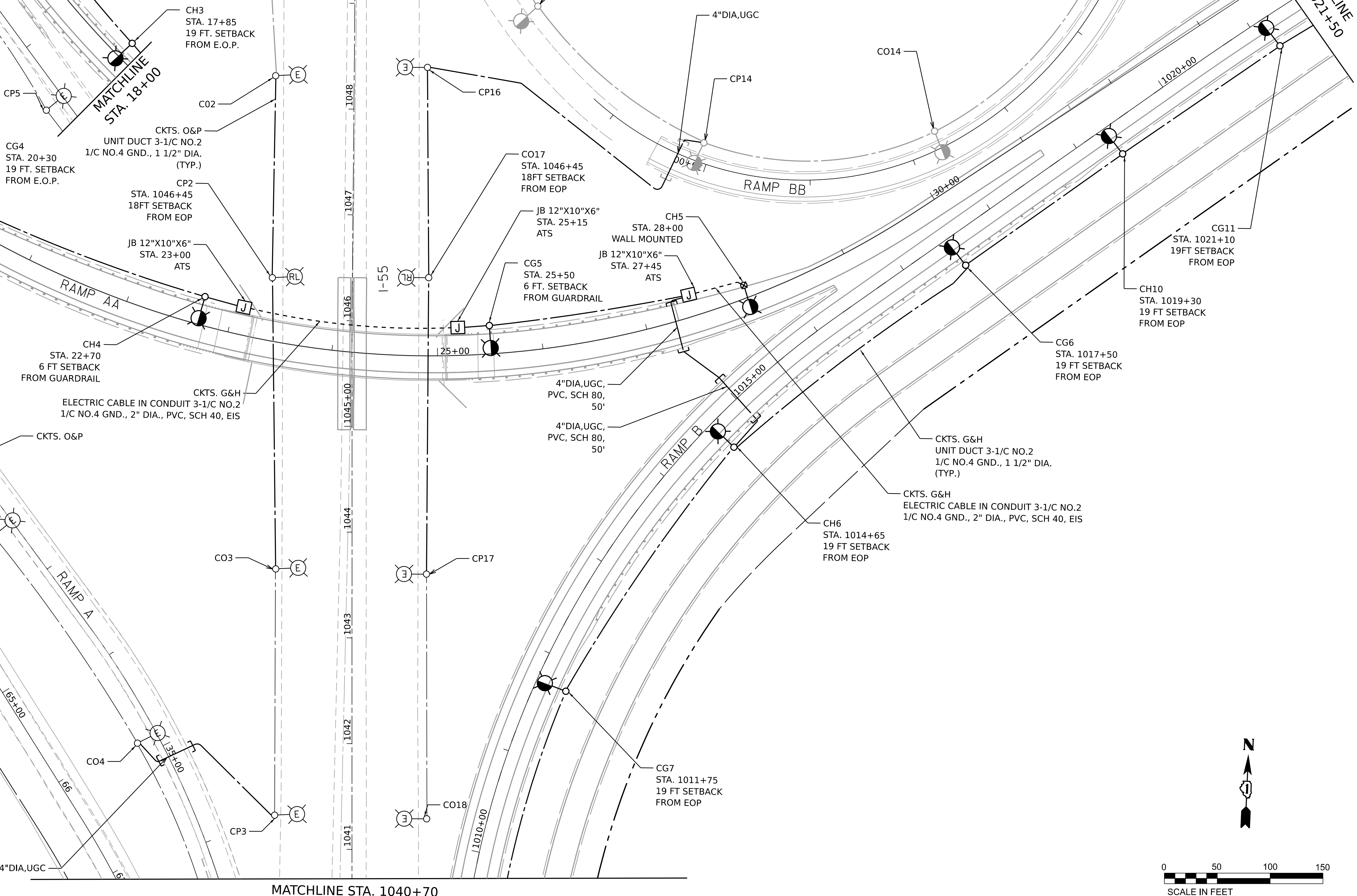
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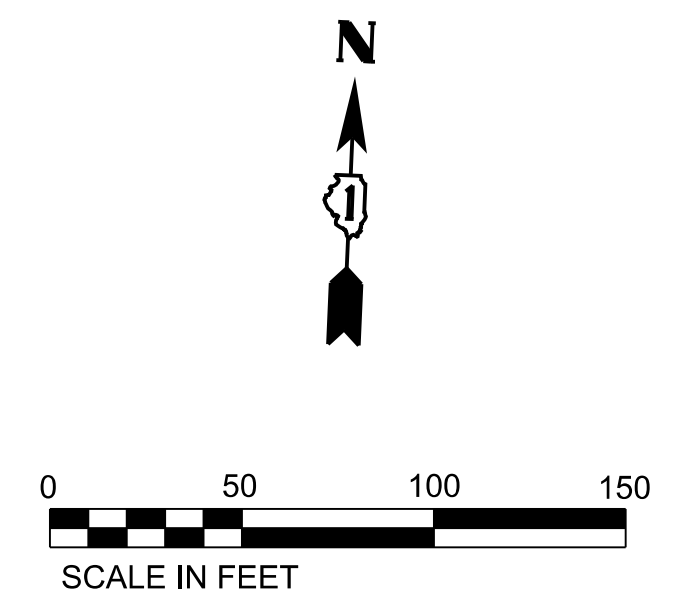
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1040+00

1041



MATCHLINE STA. 1040+70



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 PROJECT: ...
 SHEET: ...



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PLOT DATE = 6/3/2024	CHECKED - RP	REVISED -
	DATE - 06/04/2024	REVISED -

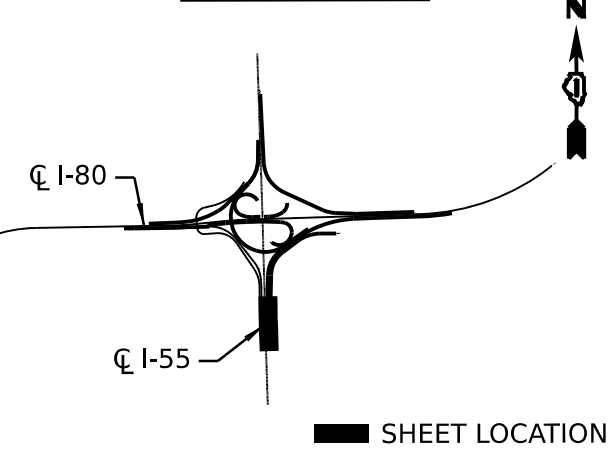
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PROPOSED LIGHTING PLAN
I-80**

SCALE: 1:50 SHEET 19 OF 29 SHEETS STA. TO STA.

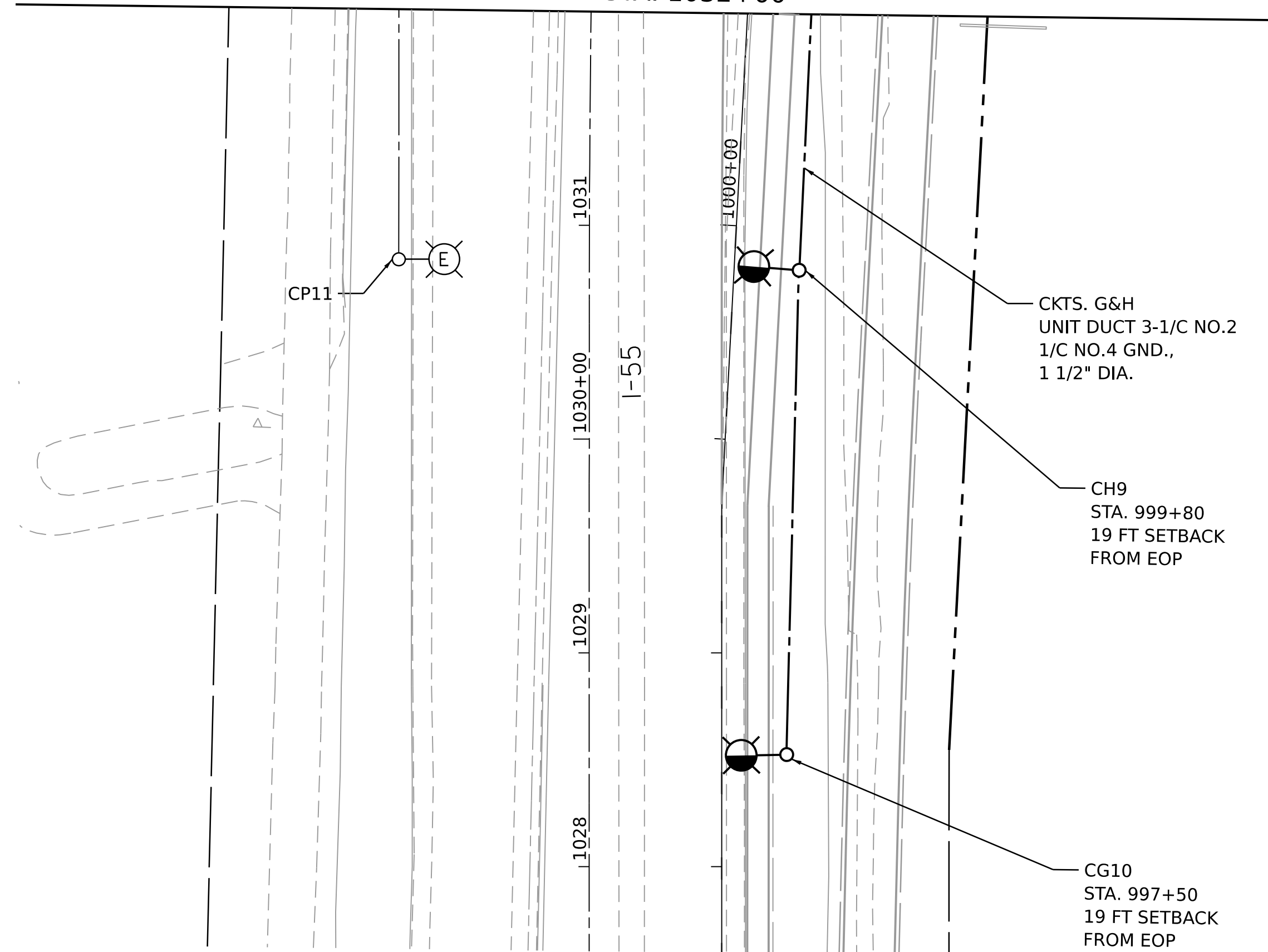
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80	FAI 80 21 INTERCHANGE	WILL	525	316
CONTRACT NO. 62R26				
ILLINOIS FED. AID PROJECT				

KEY PLAN



SHEET LOCATION

MATCHLINE STA. 1032+00



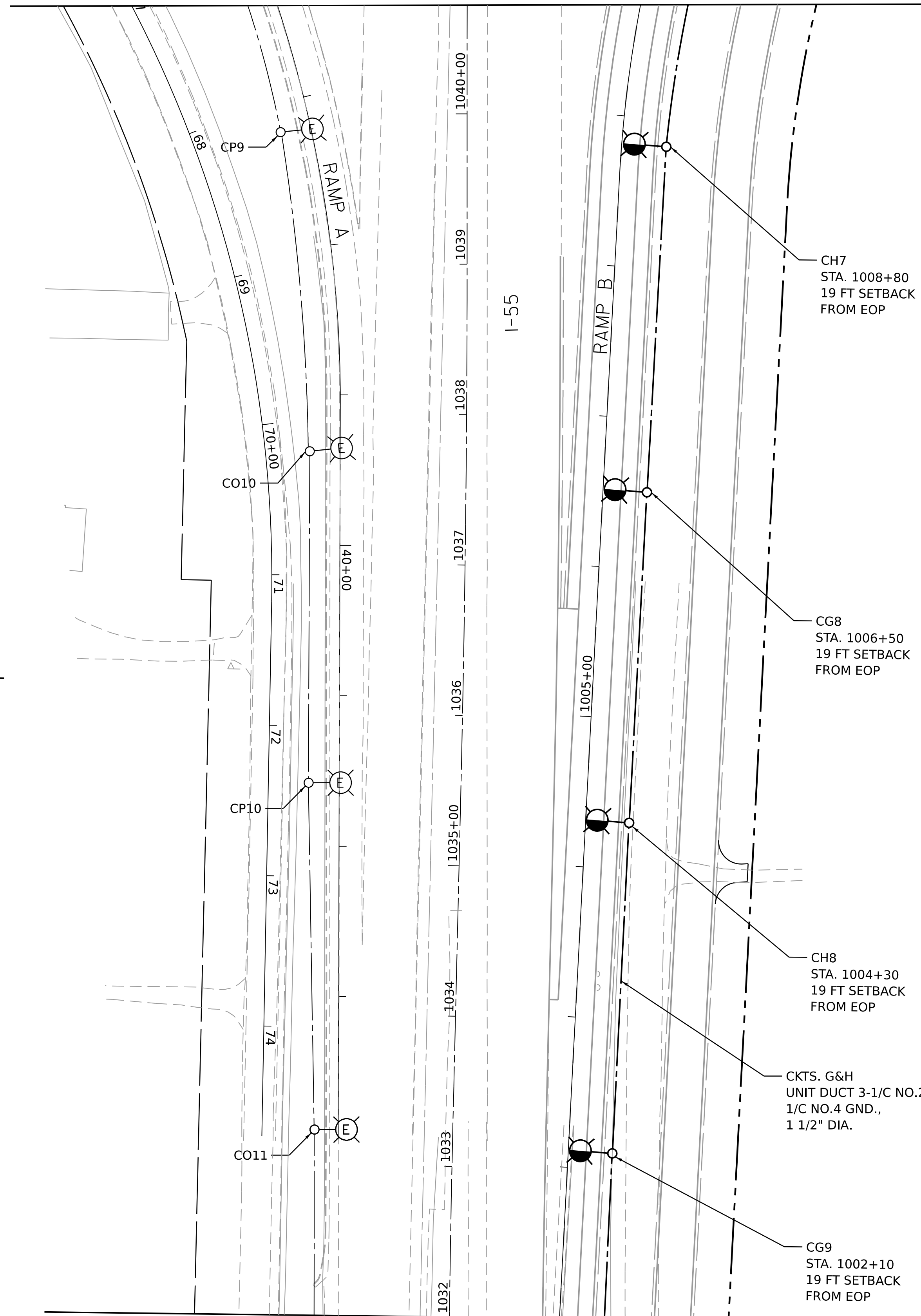
CP11

CKTS. G&H
UNIT DUCT 3-1/C NO.2
1/C NO.4 GND.,
1 1/2" DIA.

CH9
STA. 999+80
19 FT SETBACK
FROM EOP

CG10
STA. 997+50
19 FT SETBACK
FROM EOP

MATCHLINE STA. 1040+70



CP9

RAMP A

CO10

CP10

CO11

CH7
STA. 1008+80
19 FT SETBACK
FROM EOP

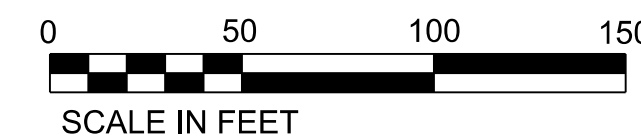
CG8
STA. 1006+50
19 FT SETBACK
FROM EOP

CH8
STA. 1004+30
19 FT SETBACK
FROM EOP

CKTS. G&H
UNIT DUCT 3-1/C NO.2
1/C NO.4 GND.,
1 1/2" DIA.

CG9
STA. 1002+10
19 FT SETBACK
FROM EOP

MATCHLINE STA. 1032+00



MODEL: D:\draft\...
FILE NAME: ...
PROJECT: ...



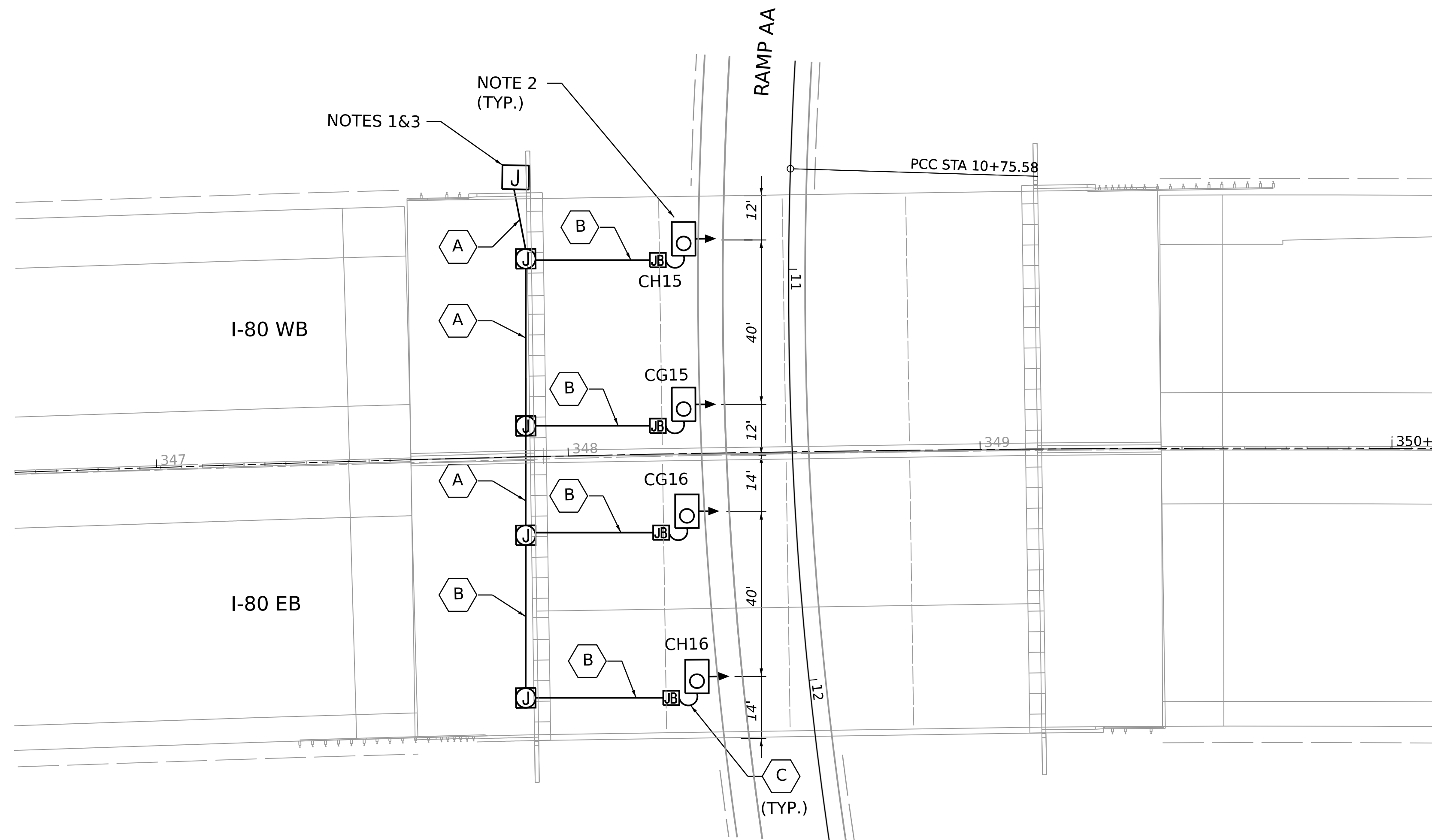
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PLOT DATE = 5/31/2024	DATE - 06/04/2024	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED LIGHTING PLAN
I-80

SCALE: 1:50 SHEET 20 OF 29 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	FAI 80 21 INTERCHANGE	WILL	525	317
CONTRACT NO. 62R26				
ILLINOIS FED. AID PROJECT				



NOTES:

1. INSTALL FUSEHOLDER WITH 30 AMP FUSES AND NEUTRAL SLUG INSIDE THE JUNCTION BOX.
2. PROPOSED UNDERPASS LUMINAIRE SUSPENDED FROM THE BRIDGE DECK, LUMINAIRE SHALL BE CENTERED IN THE BEAM SPACE. LUMINAIRE SETBACK SHALL BE 12' FROM EOP.
3. PROPOSED UNDERPASS LIGHTING TO BE FED FROM FUTURE RAMP AA LIGHTING INSTALLED UNDER CONTRACT 62R26. THE CONTRACTOR SHALL PROVIDE A TEMPORARY PORTABLE GENERATOR FOR TESTING AND ACCEPTANCE OF THE UNDERPASS LIGHTING.

**FOR INFORMATION ONLY
UNDERPASS LIGHTING INSTALLED
UNDER CONTRACT 62R28**

LEGEND:

- A 3-1/C NO. 10 AND 1/C NO. 10 GND IN 1" PVCC RGC
- B 2-1/C NO. 10 AND 1/C NO. 10 GND IN 1"PVCC RGC
- C 2-1/C NO. 10 AND 1-1/C NO. 10 GND IN 3/4" LIQUID-TIGHT FLEXIBLE CONDUIT

- O LUMINAIRE, LED, UNDERPASS, SUSPENDED, OUTPUT DESIGNATION E (16.5FT M.H.)
12' SETBACK FROM EOP
- JB JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 6" X 6" X 4"
- J JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 12" X 10" X 6"
- J JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 18" X 18" X 8"

MODEL: D:\draft\...
FILE NAME: ...



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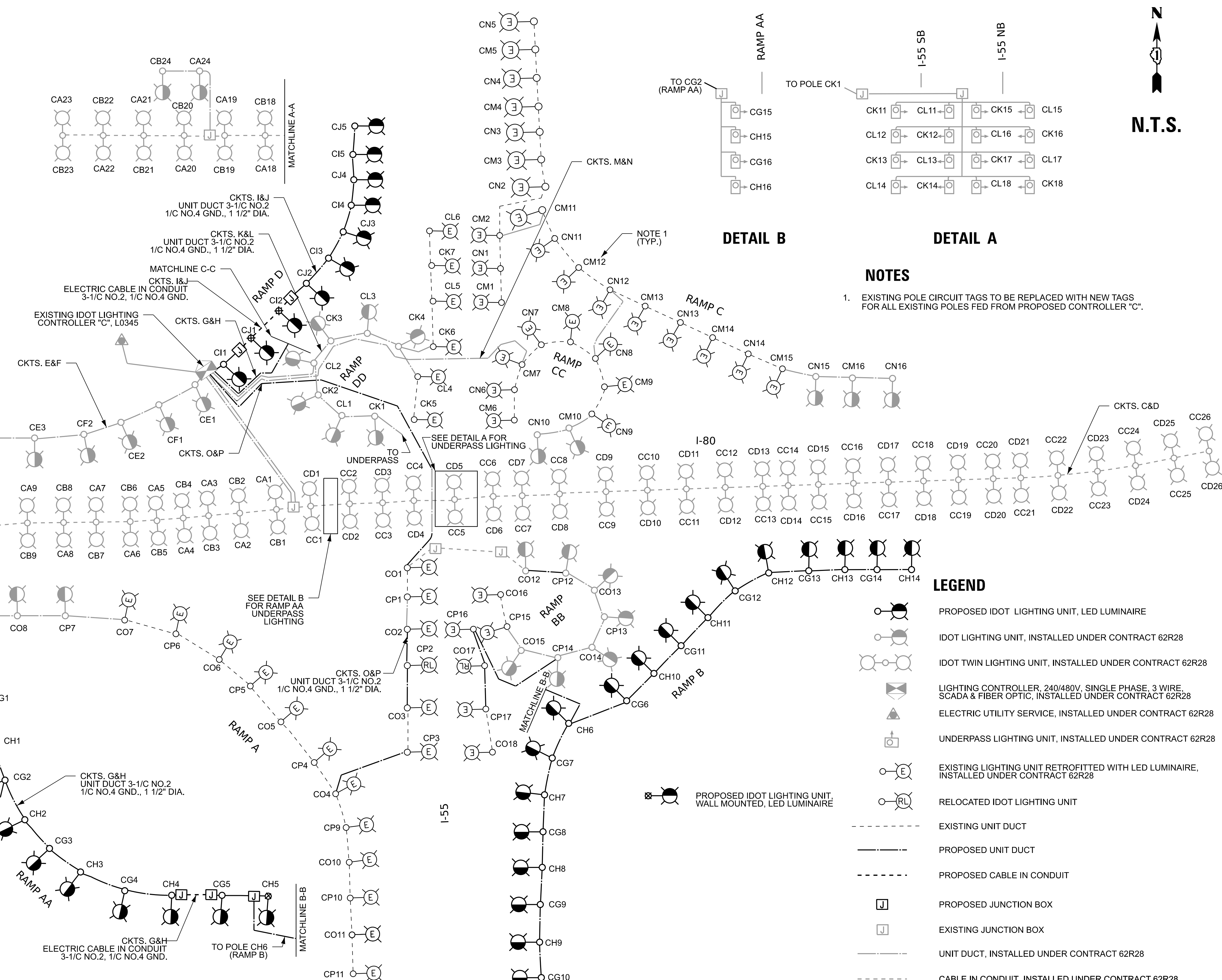
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**UNDERPASS LIGHTING PLAN
RAMP AA UNDER I-80 (FOR INFORMATION)**

SCALE: 1:20 SHEET 21 OF 29 SHEETS STA. _____ TO STA. _____

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	FAI 80 21 INTERCHANGE	WILL	525	318
CONTRACT NO. 62R26				
ILLINOIS FED. AID PROJECT				

LOAD TABLE							
PROPOSED LIGHTING CONTROLLER 'C', 240/480V, 1-Ø, 3-WIRE							
RED PHASE	NO. LUM. *	AMPS	WATTS	BLACK PHASE	NO. LUM. *	AMPS	WATTS
A	23-305W 1-230W	30.19	7245.0	B	23-305W 1-230W	30.19	7245.0
C	26-305W	33.04	7930.0	D	26-305W	33.04	7930.0
E	3-230W	2.88	690.0	F	3-230W	2.88	690.0
G	14-230W 2-100W	14.25	3420.0	H	14-230W 2-100W	14.25	3420.0
I	5-230W	4.79	1150.0	J	5-230W	4.79	1150.0
K	10-230W 8-100W	12.92	3100.0	L	8-230W 8-100W	11.00	2640.0
M	16-230W	15.33	3680.0	N	16-230W	15.33	3680.0
O	18-230W	17.25	4140.0	P	17-230W	16.29	3910.0
TOTAL	49-305W 67-230W 10-100W	130.6	31355.0	TOTAL	49-305W 64-230W 10-100W	127.8	30665.0
TOTAL CONNECTED LOAD CAPACITY: 62.02 KVA							
LED H=230W; LED I= 305W; LED UNDERPASS=100W							



NOTES

1. EXISTING POLE CIRCUIT TAGS TO BE REPLACED WITH NEW TAGS FOR ALL EXISTING POLES FED FROM PROPOSED CONTROLLER "C".

LEGEND

	PROPOSED IDOT LIGHTING UNIT, LED LUMINAIRE
	IDOT LIGHTING UNIT, INSTALLED UNDER CONTRACT 62R28
	IDOT TWIN LIGHTING UNIT, INSTALLED UNDER CONTRACT 62R28
	LIGHTING CONTROLLER, 240/480V, SINGLE PHASE, 3 WIRE, SCADA & FIBER OPTIC, INSTALLED UNDER CONTRACT 62R28
	ELECTRIC UTILITY SERVICE, INSTALLED UNDER CONTRACT 62R28
	UNDERPASS LIGHTING UNIT, INSTALLED UNDER CONTRACT 62R28
	EXISTING LIGHTING UNIT RETROFITTED WITH LED LUMINAIRE, INSTALLED UNDER CONTRACT 62R28
	RELOCATED IDOT LIGHTING UNIT
	EXISTING UNIT DUCT
	PROPOSED UNIT DUCT
	PROPOSED CABLE IN CONDUIT
	PROPOSED JUNCTION BOX
	EXISTING JUNCTION BOX
	UNIT DUCT, INSTALLED UNDER CONTRACT 62R28
	CABLE IN CONDUIT, INSTALLED UNDER CONTRACT 62R28

MODEL: D:\idot...
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 PROJECT: ...
 SHEET: ...



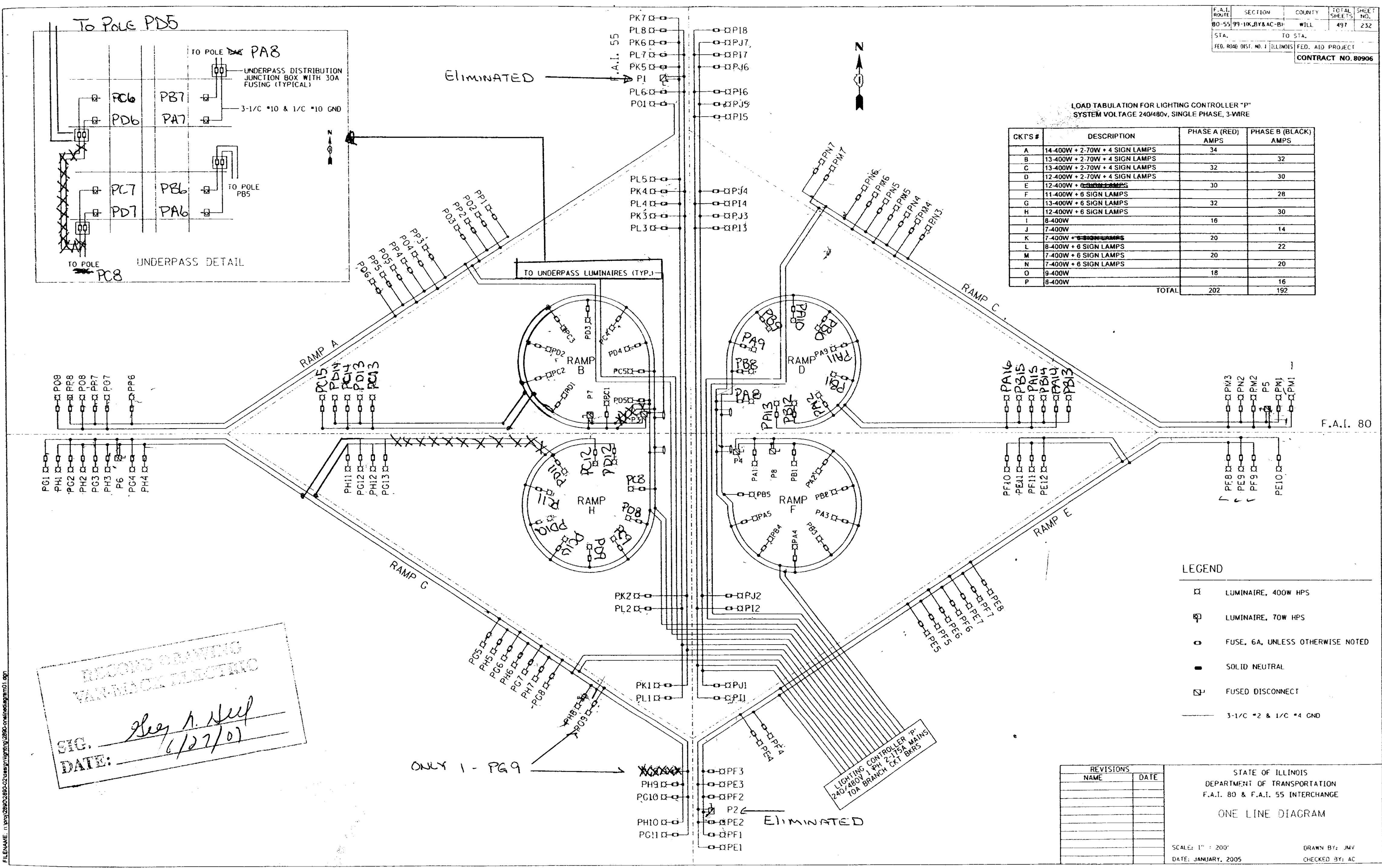
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PLOT DATE = 6/3/2024	CHECKED - RP	REVISED -
	DATE - 06/04/2024	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WIRING DIAGRAM
EXISTING IDOT LIGHTING CONTROLLER "C"

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	FAI 80 21 INTERCHANGE	WILL	525	319
CONTRACT NO. 62R26				
ILLINOIS FED. AID PROJECT				

SCALE: SHEET 22 OF 29 SHEETS STA. TO STA.



F.A.I. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80-55	99-10K-BY&AC-B1	WILL	497	232
STA.	TO STA.			
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 80906				

LOAD TABULATION FOR LIGHTING CONTROLLER "P"
SYSTEM VOLTAGE 240/480V, SINGLE PHASE, 3-WIRE

CKT'S #	DESCRIPTION	PHASE A (RED) AMPS	PHASE B (BLACK) AMPS
A	14-400W + 2-70W + 4 SIGN LAMPS	34	
B	13-400W + 2-70W + 4 SIGN LAMPS		32
C	13-400W + 2-70W + 4 SIGN LAMPS	32	
D	12-400W + 2-70W + 4 SIGN LAMPS		30
E	12-400W + 2-70W + 4 SIGN LAMPS	30	
F	11-400W + 6 SIGN LAMPS		28
G	13-400W + 6 SIGN LAMPS	32	
H	12-400W + 6 SIGN LAMPS		30
I	8-400W	16	
J	7-400W		14
K	7-400W + 6 SIGN LAMPS	20	
L	6-400W + 6 SIGN LAMPS		22
M	7-400W + 6 SIGN LAMPS	20	
N	7-400W + 6 SIGN LAMPS		20
O	9-400W	18	
P	8-400W		16
TOTAL		202	192

LEGEND

- LUMINAIRE, 400W HPS
- ⊗ LUMINAIRE, 70W HPS
- FUSE, 6A, UNLESS OTHERWISE NOTED
- SOLID NEUTRAL
- ⊞ FUSED DISCONNECT
- 3-1/2" * 2 & 1/2" * 4 GND

REVISIONS	NAME	DATE

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
F.A.I. 80 & F.A.I. 55 INTERCHANGE
ONE LINE DIAGRAM

SCALE: 1" = 200'
DATE: JANUARY, 2005

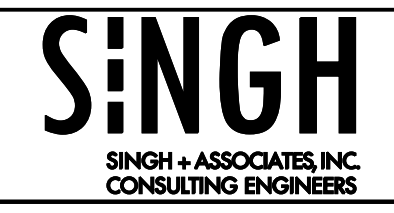
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CHECKED BY: AC

RECORDS DRAWING
VALUED OR ELECTRIC

SIG. *Greg A. Neef*
DATE: 6/27/05

FOR INFORMATION ONLY

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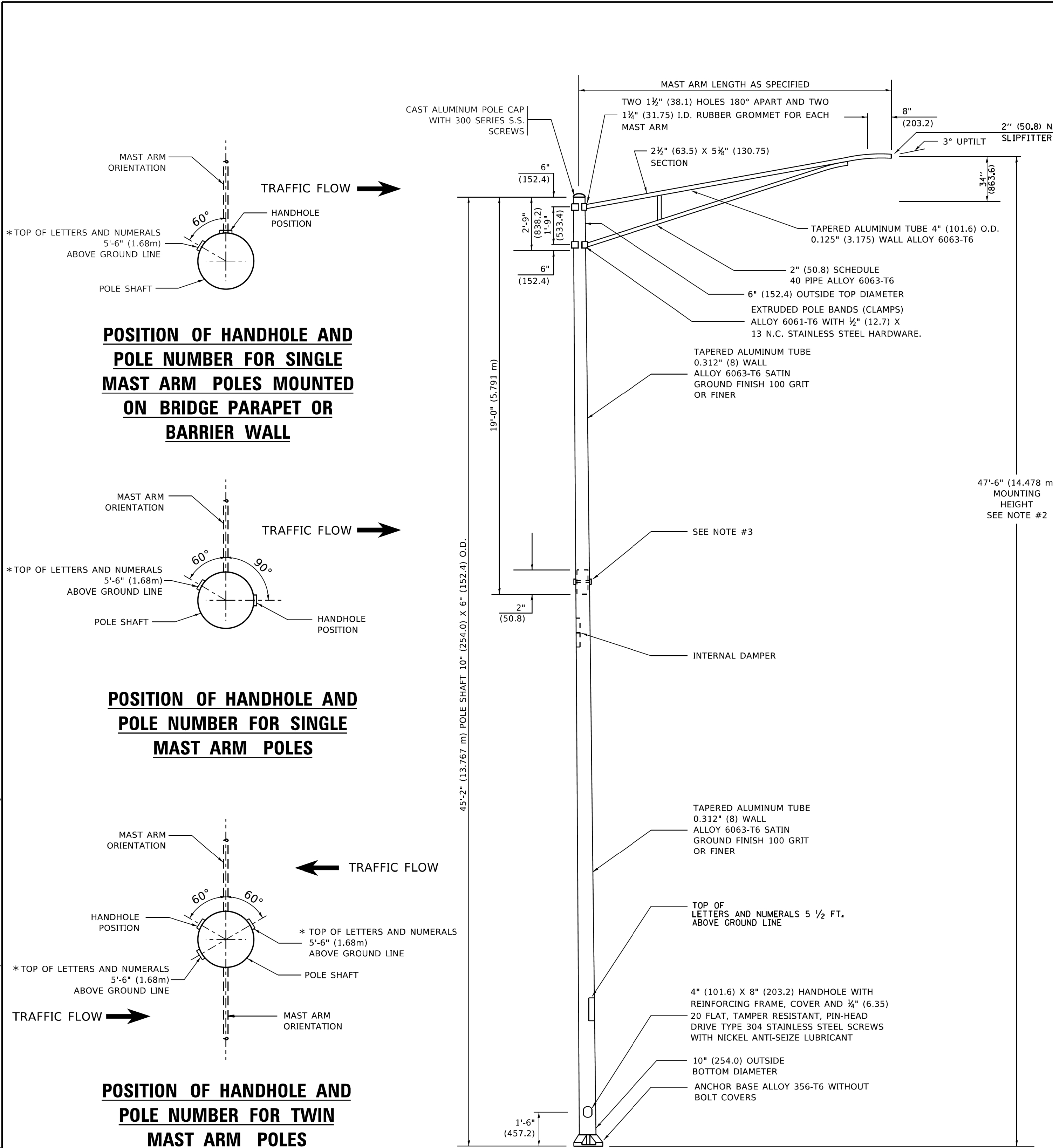
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	DATE - 06/04/2024	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WIRING DIAGRAM
EXISTING LIGHTING CONTROLLER "P"

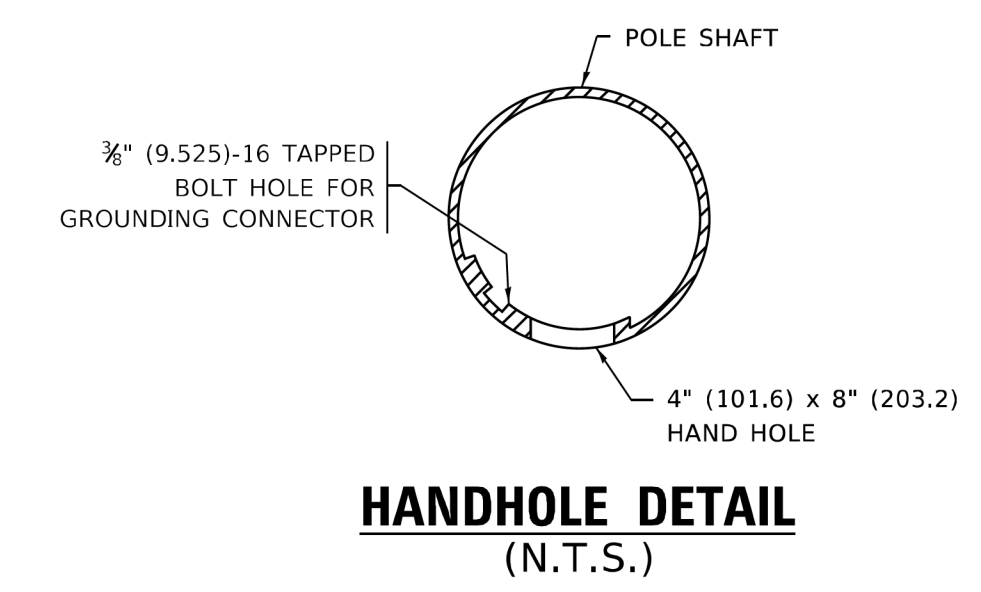
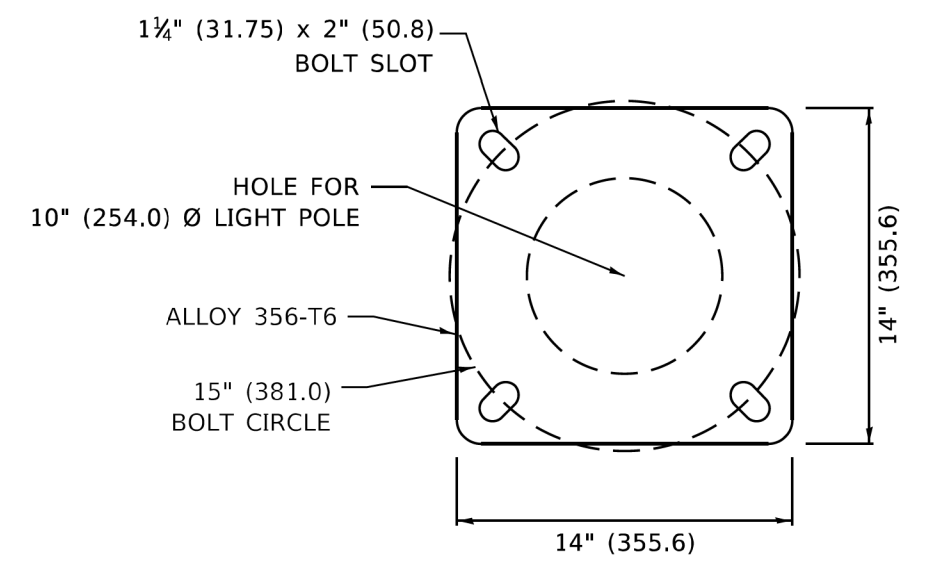
SCALE: SHEET 23 OF 29 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	FAI 80 21 INTERCHANGE	WILL	525	320
CONTRACT NO. 62R26				
		ILLINOIS	FED. AID PROJECT	



NOTES

1. ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.
2. MOUNTING HEIGHT IS DEFINED AS THE DISTANCE FROM THE CENTERLINE OF THE TENON TO THE BOTTOM OF THE ANCHOR BASE.
3. TWO PIECE SHAFT WILL BE MATCHED MARKED AND INTERCHANGEABLE BETWEEN DIFFERENT UNITS. FIELD DRILLING OF THE HOLES WILL NOT BE ALLOWED.
4. THE LIGHT POLE WILL MEET AASHTO DESIGN CRITERIA AS SPECIFIED.
5. THE INSTALLING CONTRACTOR WILL PROVIDE A UL LISTED GROUNDING CONNECTOR, BURNDY K2C23, T&B SP4DL OR APPROVED EQUAL.
6. LIGHT POLES WILL NOT BE INSTALLED WITHOUT MAST ARMS AND LUMINAIRES.
7. LIGHT POLES WILL BE SET PLUMB ON THE FOUNDATION WITHOUT THE USE OF LEVELING NUTS, WASHERS OR SHIMS.
8. LIGHTING UNIT IDENTIFICATION NUMBERS SHALL BE INSTALLED BEFORE THE LIGHTING UNIT IS ENERGIZED.



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PLOT DATE = 12/19/2023	CHECKED -	REVISED - TG 06-13-22
	DATE -	REVISED - R. TOMSONS 12-19-23

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ALUMINUM LIGHT POLE
47'-6" (14.478 m) MOUNTING HEIGHT**

SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	BE-400			
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				



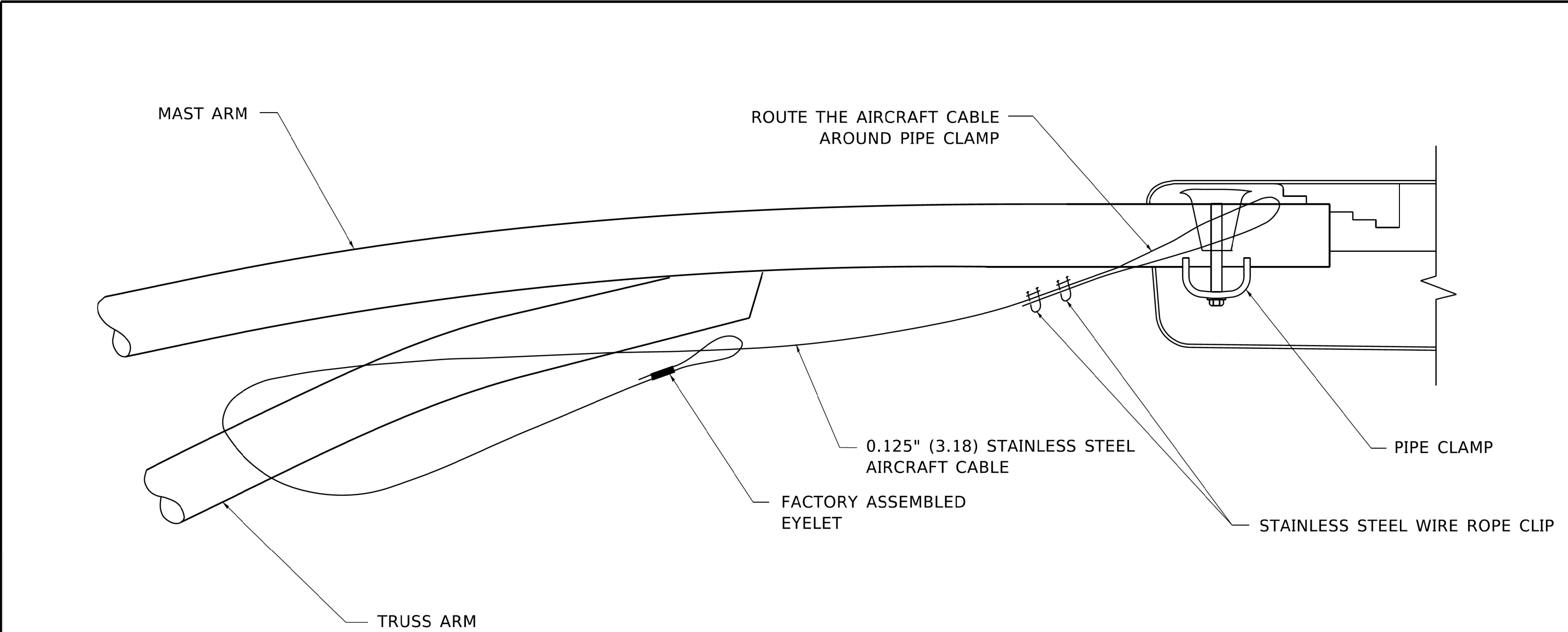
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	DATE - 06/04/2024	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

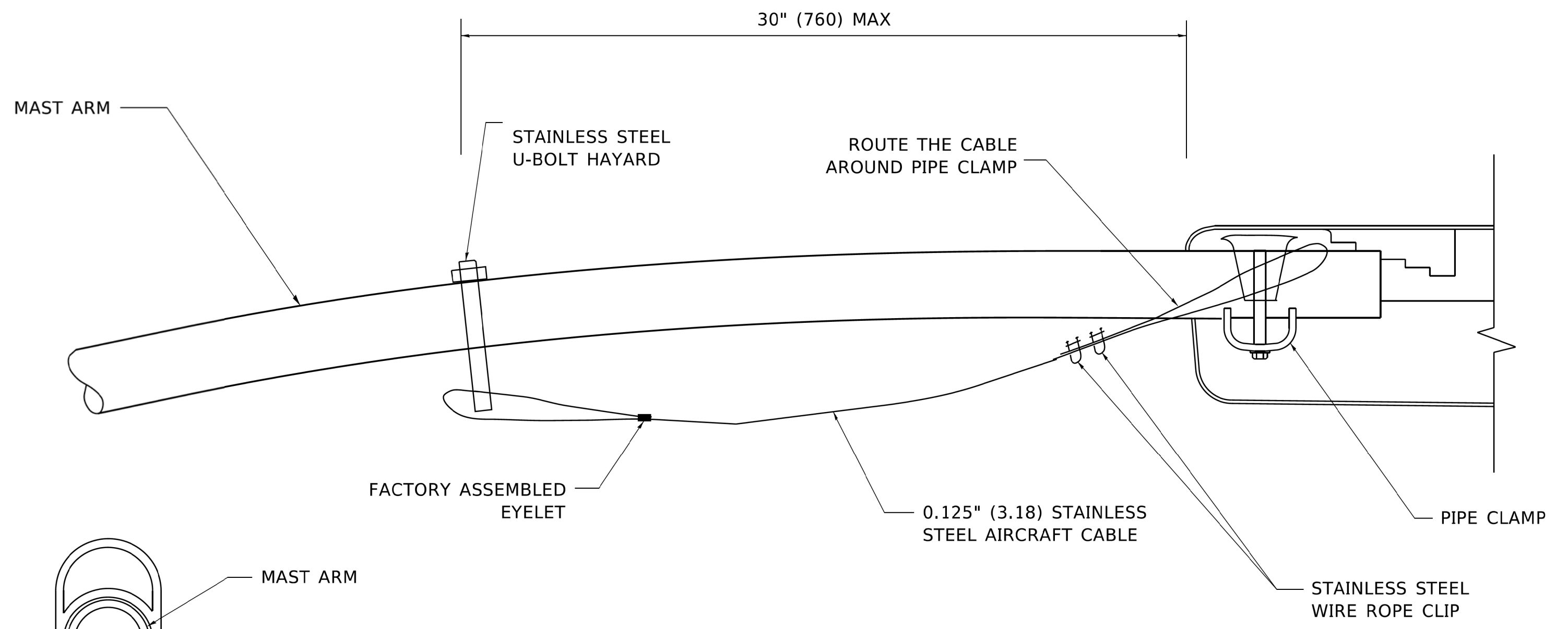
IDOT STANDARD BE - 400

SCALE: SHEET 25 OF 29 SHEETS STA. TO STA.

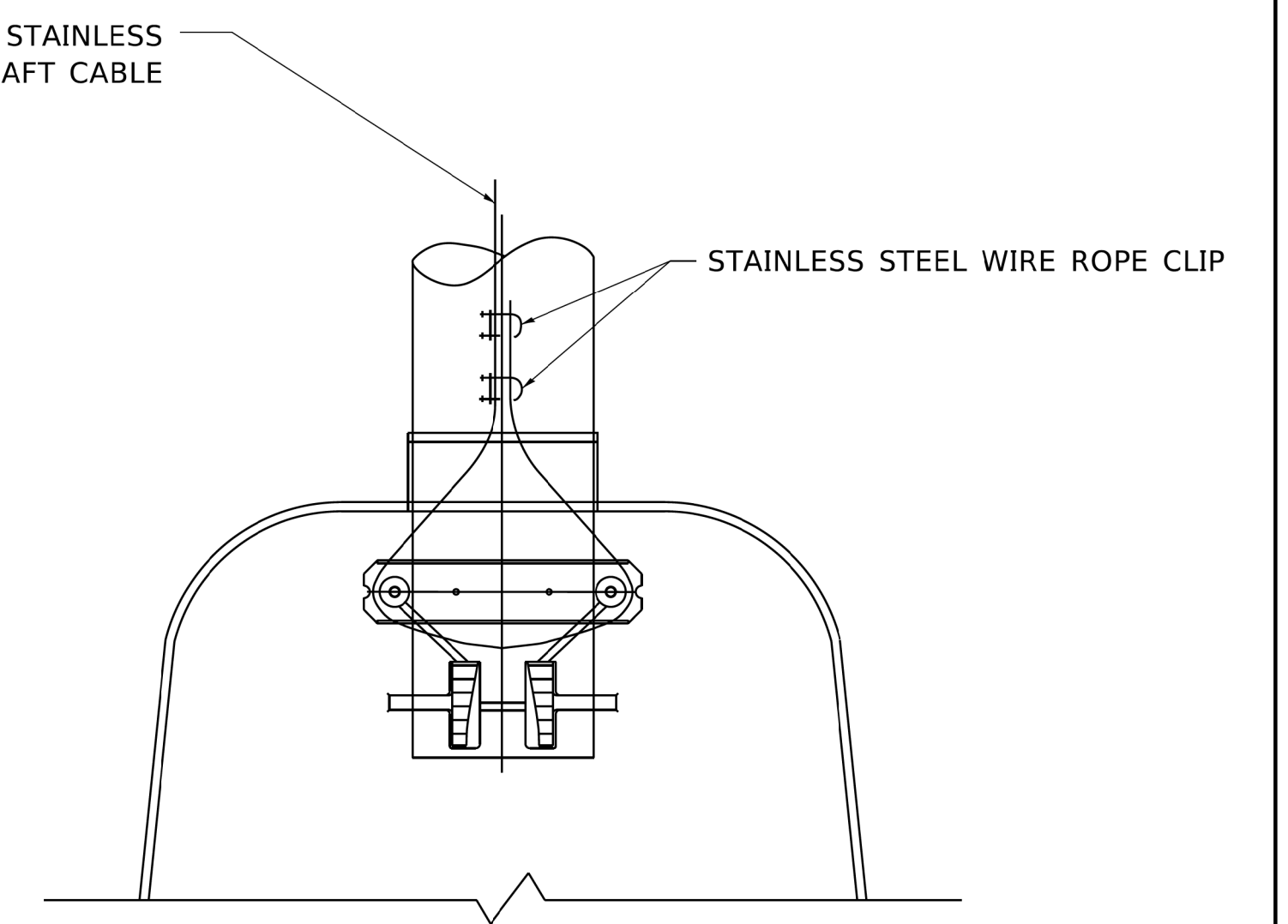
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80	FAI 80 21 INTERCHANGE	WILL	525	322
CONTRACT NO. 62R26				
ILLINOIS FED. AID PROJECT				



SIDE VIEW (TRUSS ARM)
N.T.S.



SIDE VIEW (SINGLE MEMBER OR DAVIT ARM)
N.T.S.



BOTTOM VIEW
N.T.S.

- NOTES:**
1. ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE SHOWN.
 2. CONTRACTOR SHALL ADJUST THE WIRE CLIP TO ELIMINATE ANY SLACK FROM THE WIRE ROPE.
 3. THE 0.125" (3.18) STAINLESS STEEL AIRCRAFT CABLE SHALL REMAIN VISIBLE FROM THE GROUND LEVEL.
 4. THE BREAKING STRENGTH OF THE CABLE SHALL BE 1700 LBS. MIN.

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	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LUMINAIRE SAFETY CABLE ASSEMBLY
SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	BE-701			
ILLINOIS FED. AID PROJECT				

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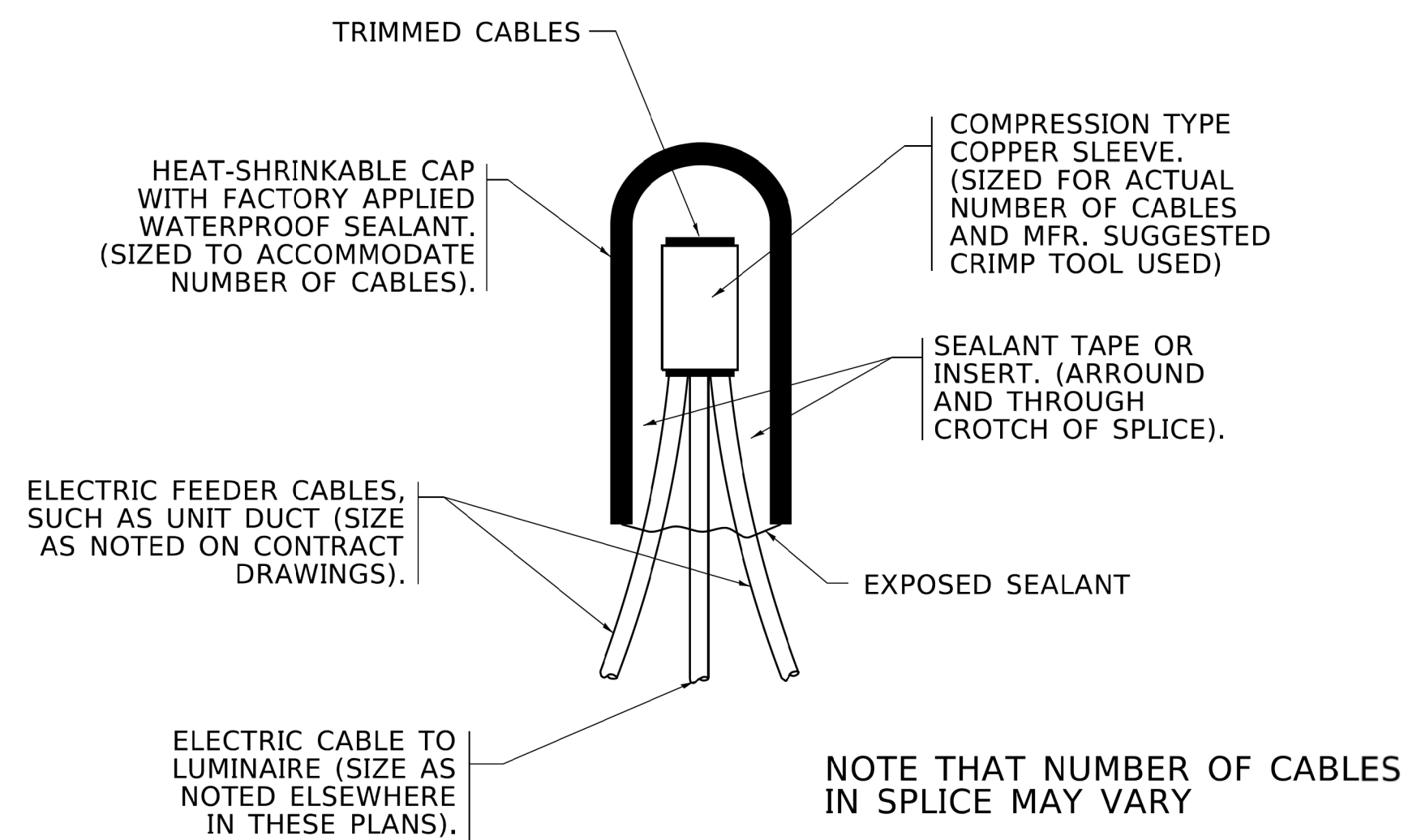


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	DATE -	REVISED -	06/04/2024

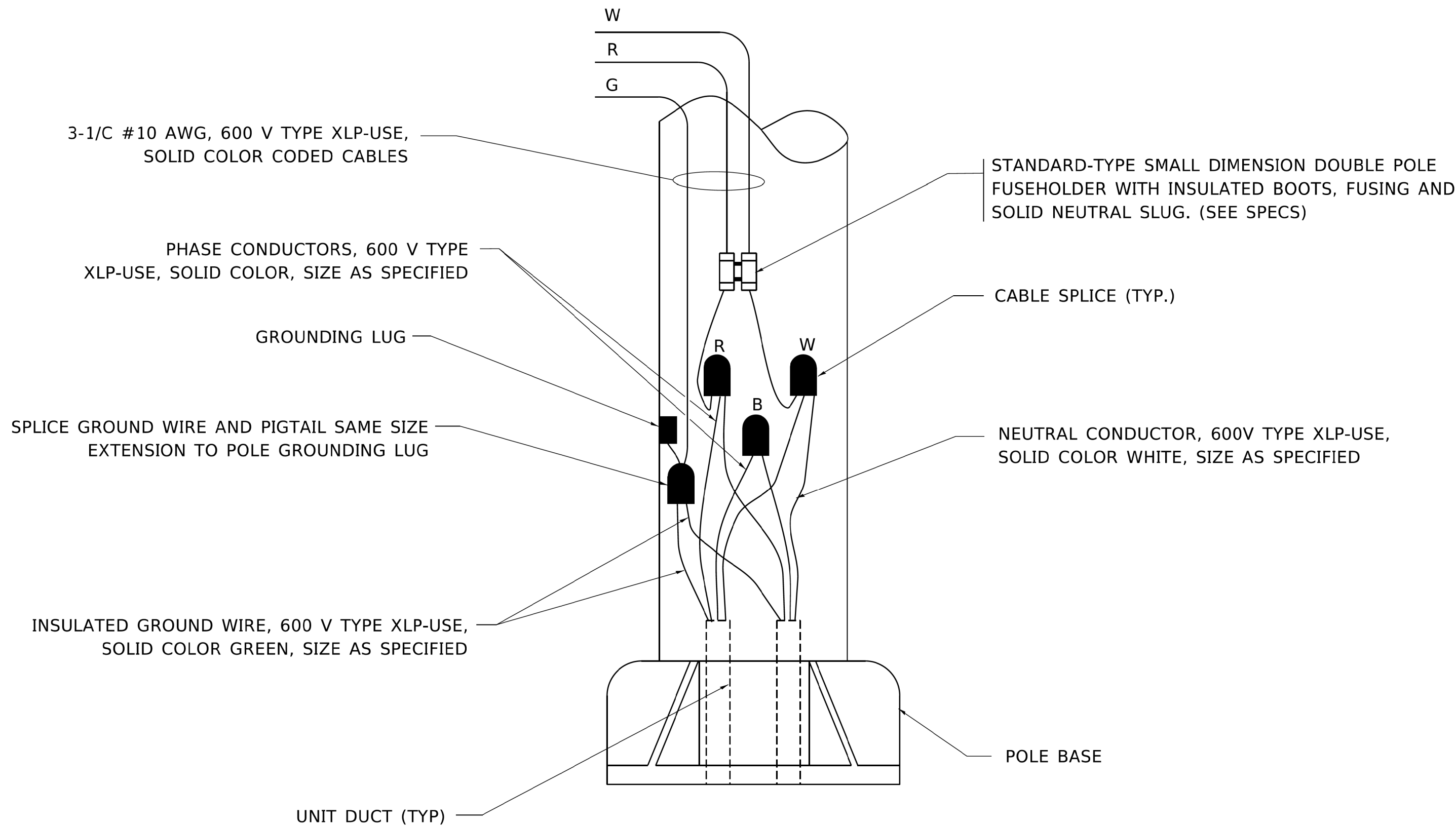
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IDOT STANDARD BE - 701
SCALE: SHEET 26 OF 29 SHEETS STA. TO STA.

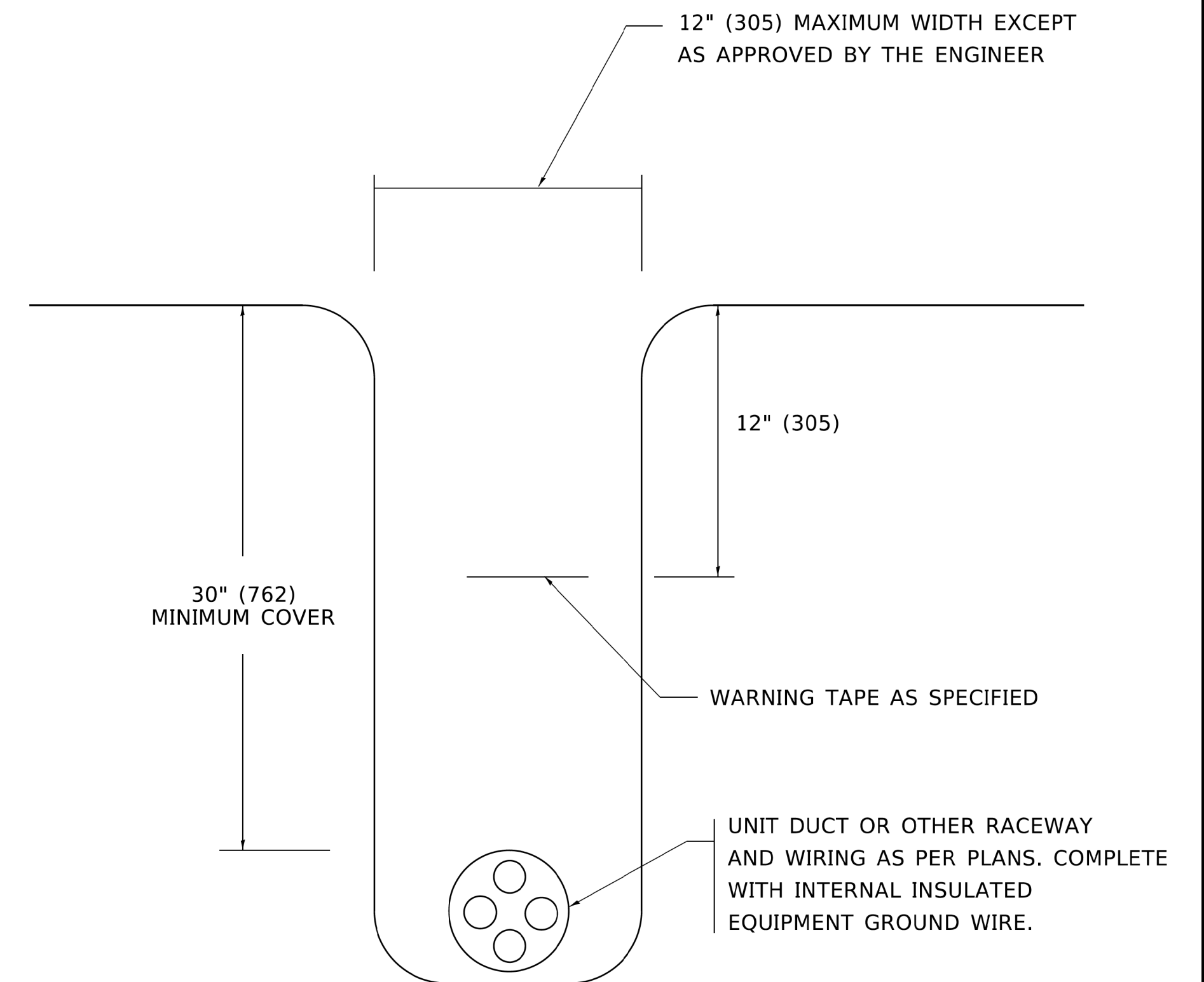
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	FAI 80 21 INTERCHANGE	WILL	525	323
ILLINOIS FED. AID PROJECT				



TYPICAL SPLICE DETAIL
N.T.S.



POLE WIRING DETAIL
N.T.S.



TYPICAL WIRING IN TRENCH DETAIL
N.T.S.

MODEL: D:\draft...
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 USER: vjguskas
 DATE: 06/04/2024

USER NAME = leysa	DESIGNED -	REVISIONS
PLOT SCALE = 50.0000' / in.	CHECKED -	REVISIONS
PLOT DATE = 3/2/2020	DATE - 08/08/2003	REVISIONS

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

MISC. ELECTRICAL DETAILS SHEET A			
SCALE: NONE	SHEET 1	OF 1 SHEETS	STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	FAI 80 21 INTERCHANGE	WILL	525	324
CONTRACT NO. 62R26				



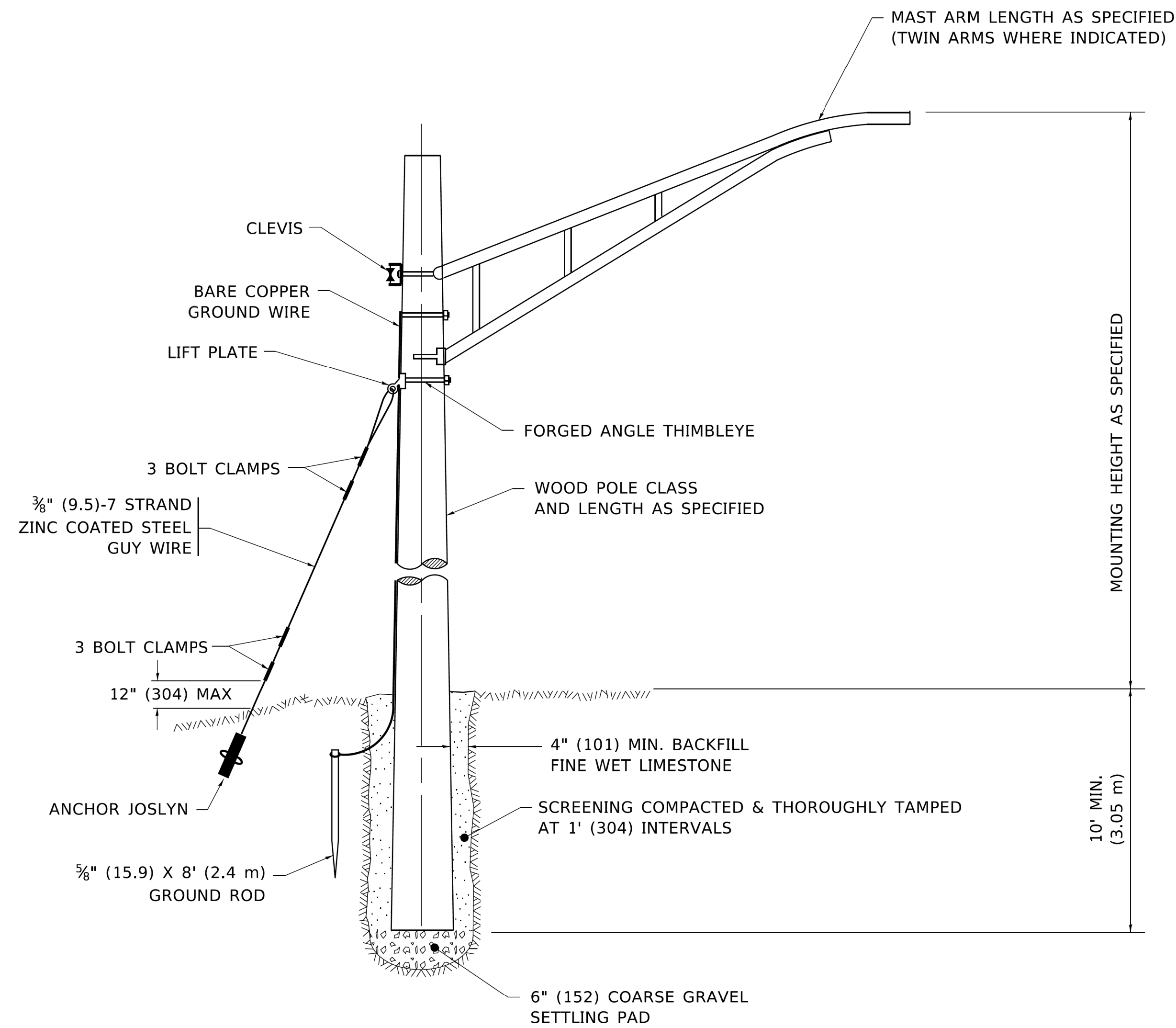
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PLOT DATE = 5/31/2024	DATE - 06/04/2024	REVISIONS

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

IDOT STANDARD BE - 702			
SCALE:	SHEET 27	OF 29 SHEETS	STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	FAI 80 21 INTERCHANGE	WILL	525	324
CONTRACT NO. 62R26				

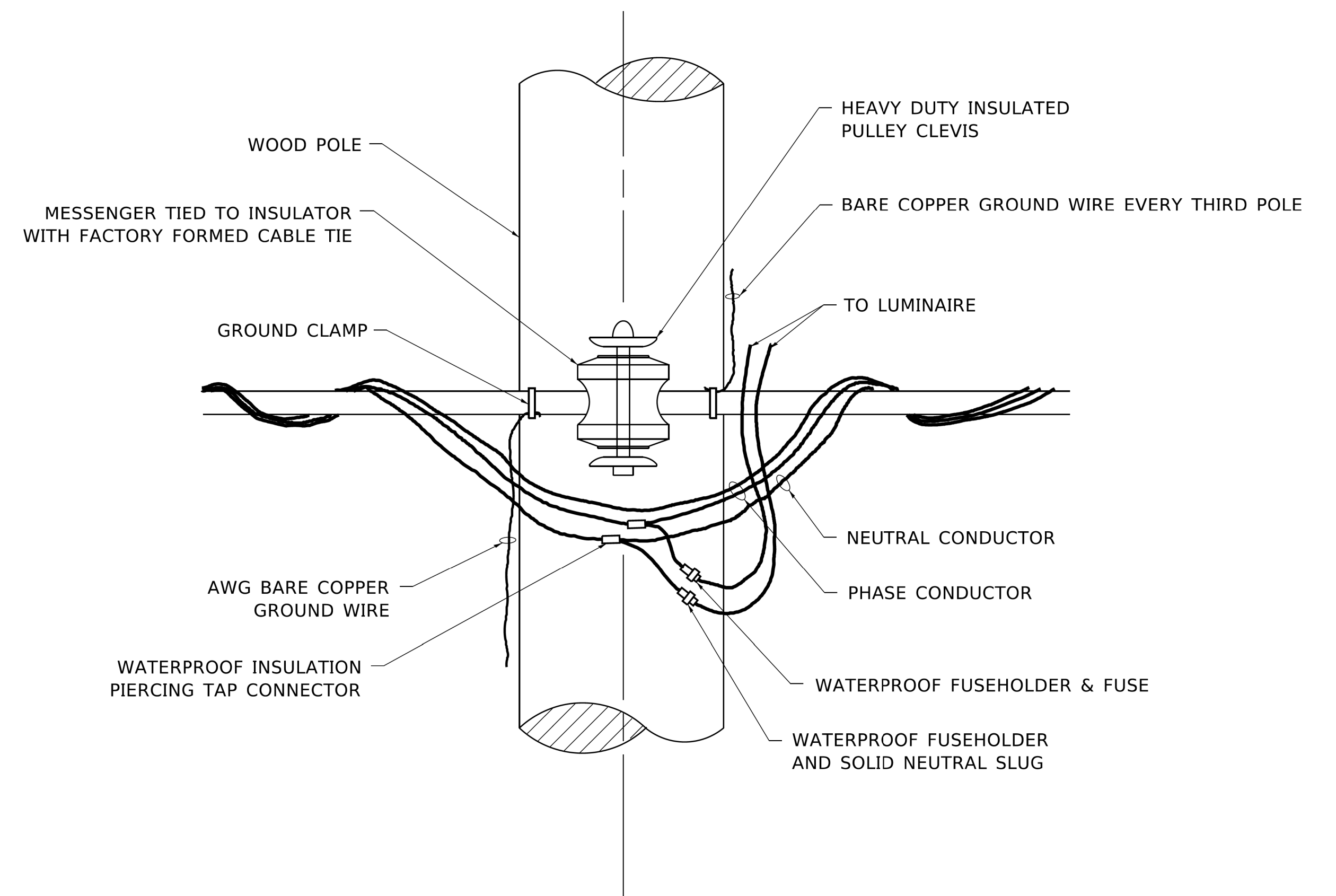
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 USER: vjguskas
 DATE: 06/04/2024



TEMPORARY LIGHT POLE DETAIL

NOTE:

1. ALL DIMENSIONS IN INCHES (MILLIMETERS) UNLESS OTHERWISE INDICATED.
2. MAST ARM SHALL BE RATED FOR THE SPECIFIED MOUNTING HEIGHT.



TEMPORARY LIGHT POLE ATTACHMENT DETAIL

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 PROJECT: ...
 USER: ...

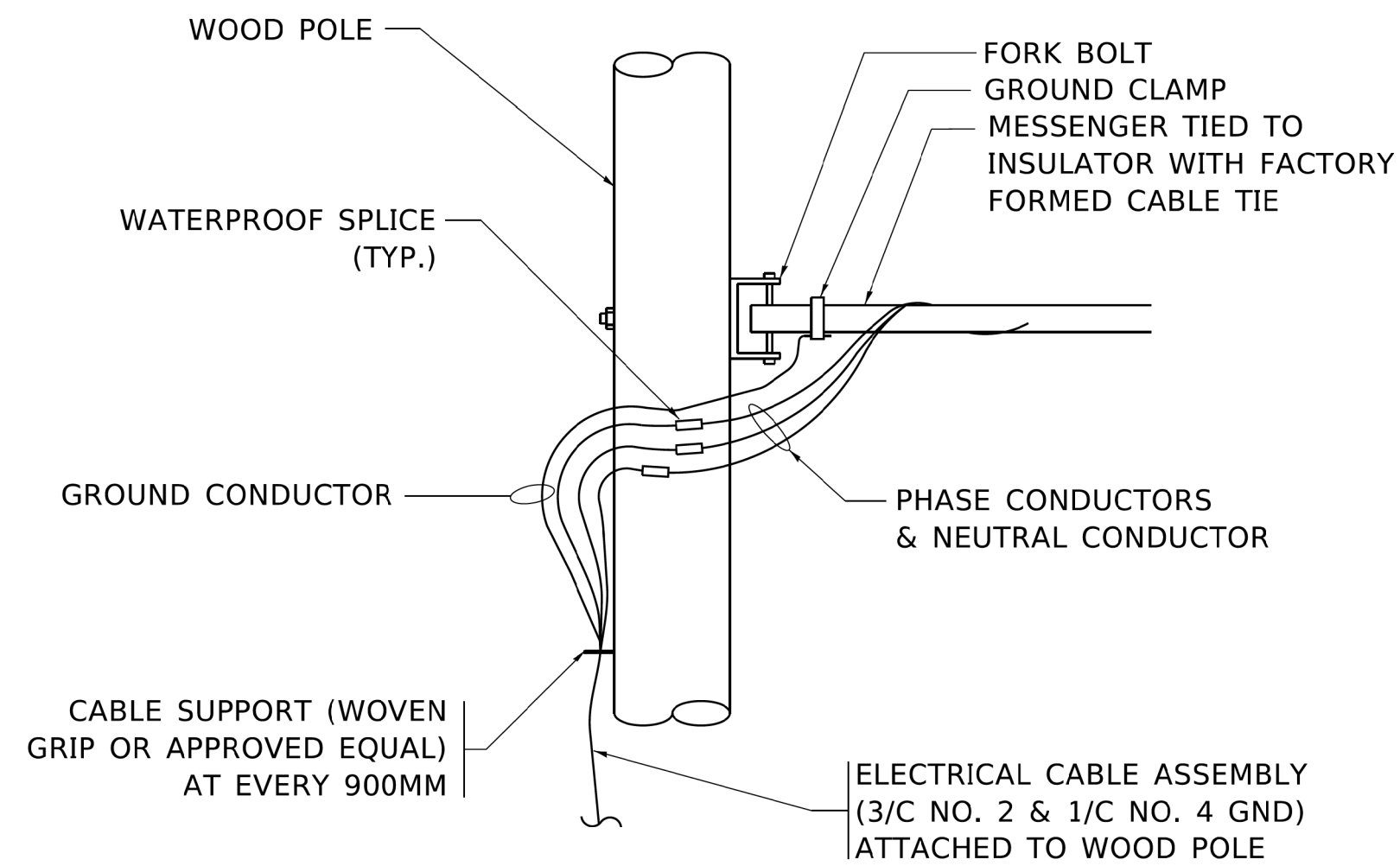
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PLOT SCALE = 50.0010' / in.	DRAWN -	REVISED - R.T. 07-26-16		SCALE: NONE	SHEET 1	OF 1 SHEETS	STA.	TO STA.	BE-800 CONTRACT NO.			
PLOT DATE = 4/19/2019	CHECKED -	REVISED -		ILLINOIS FED. AID PROJECT								
	DATE -	REVISED -										



USER NAME = vgvskas	DESIGNED - VG	REVISED -
	DRAWN - VG	REVISED -
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PLOT DATE = 5/31/2024	DATE - 06/04/2024	REVISED -

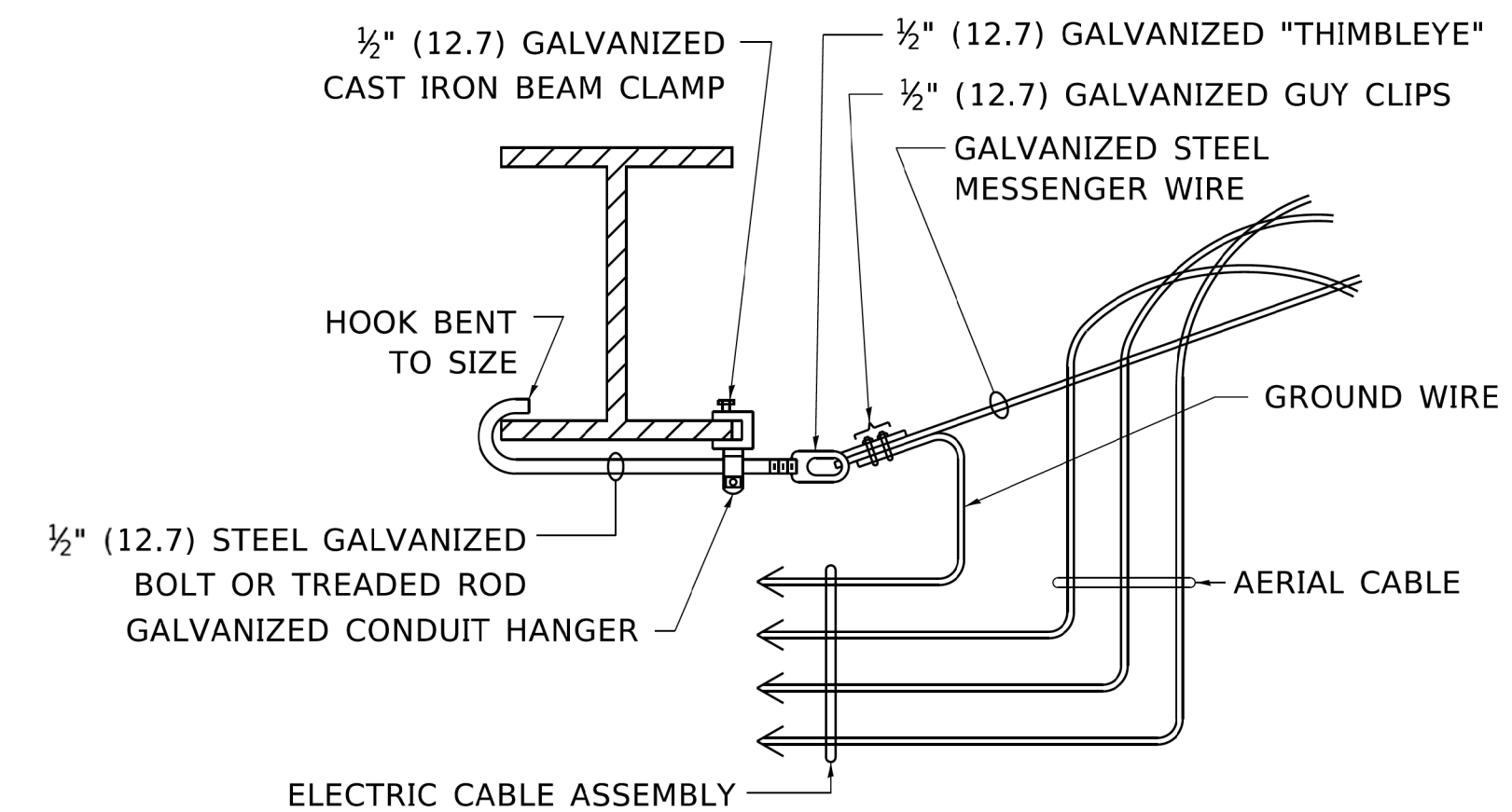
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

IDOT STANDARD BE - 800			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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			CONTRACT NO. 62R26				
			ILLINOIS FED. AID PROJECT				



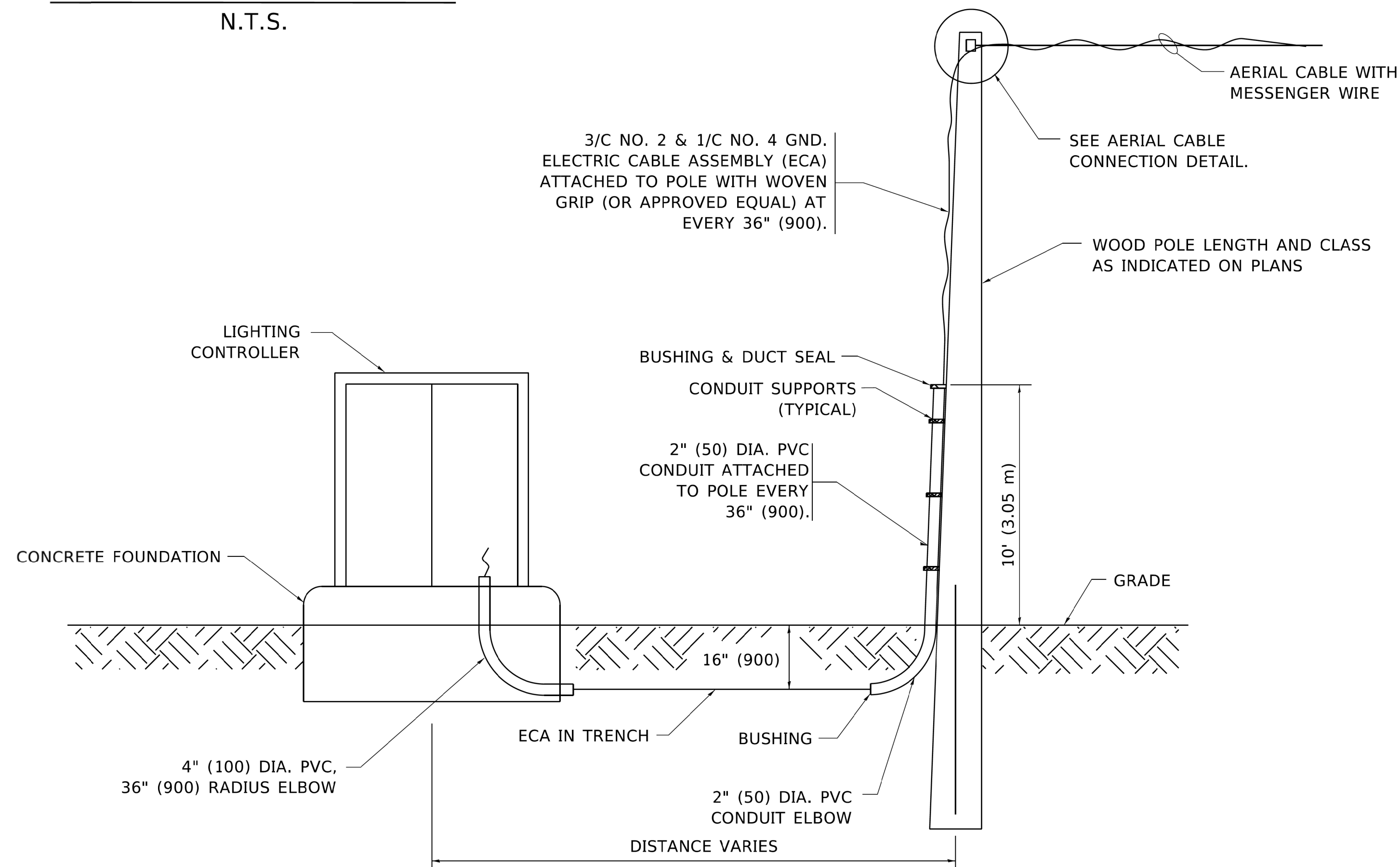
AERIAL CABLE CONNECTION DETAIL

N.T.S.



AERIAL CABLE ATTACHED TO STRUCTURE

NOT TO SCALE



WOOD POLE TO LIGHTING CONTROLLER WIRING CONNECTION DETAIL

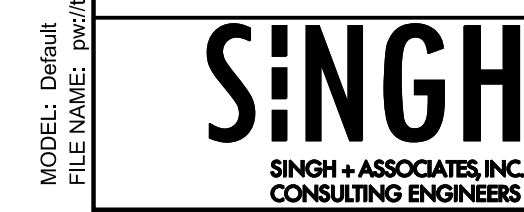
N.T.S.

NOTES:

1. ALL DIMENSIONS IN INCHES (MILLIMETERS) UNLESS OTHERWISE INDICATED.
2. SEE PROPOSED LIGHTING PLAN FOR CONDUIT, CABLE AND ROUTING.
3. THE CONTRACTOR SHALL PROVIDE INTERMEDIATE SUPPORTS TO MAINTAIN MINIMUM CLEARANCES. REFER TO AERIAL AERIAL CABLE ATTACHED TO STRUCTURE DETAIL.
4. COST OF SPLICES AND MOUNTING HARDWARE SHALL BE INCLUDED IN THE UNIT PRICE FOR AERIAL CABLE.

MODEL: D:\work\...
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 PROJECT: ...
 DATE: 4/19/2019

USER NAME = footemj	DESIGNED -	REVISED - 08-08-03	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TEMPORARY AERIAL CABLE INSTALLATION			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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PLOT DATE = 4/19/2019	CHECKED -	REVISED -		ILLINOIS FED. AID PROJECT							
	DATE -	REVISED -									



USER NAME = vgruskas	DESIGNED - VG	REVISED -
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PLOT DATE = 5/31/2024	DATE - 06/04/2024	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

IDOT STANDARD BE - 801

SCALE: SHEET 29 OF 29 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	FAI 80 21 INTERCHANGE	WILL	525	326
CONTRACT NO. 62R26				
ILLINOIS FED. AID PROJECT				

SYMBOLS FOR EXISTING CONDITIONS

- ⊞ HEAVY DUTY HANDHOLE (ELECTRICAL)
- ⊞ COMMUNICATIONS VAULT (IDOT)
- ⓐ CLOSED CIRCUIT TELEVISION CAMERA
- ITS POLE AND FOUNDATION
- ⊞ GROUND MOUNTED CABINET
- ⊞ POLE MOUNTED CABINET
- ⊞ ELECTRIC UTILITY POLE
- ▲ POLE MOUNTED ELECTRIC UTILITY TRANSFORMER(S)
- ⊞ SERVICE METER PEDESTAL
- ⊞ INDUCTION LOOP

SYMBOLS FOR PROPOSED WORK

- ⊞ HEAVY DUTY HANDHOLE (ELECTRICAL)
 - ▲ POLE MOUNTED ELECTRIC UTILITY TRANSFORMER(S)
 - ⊞ SERVICE METER PEDESTAL
 - ⊞ INDUCTION LOOP*
- *SIZE AS INDICATED ON PLANS

ABBREVIATIONS

(A)	ABANDON IN PLACE
AWG	AMERICAN WIRE GAUGE
CCTV	CLOSED CIRCUIT TELEVISION
CNC	COILABLE NONMETALLIC CONDUIT
FOC	FIBER OPTIC CABLE
FT	FEET
(G)	GROUND CABLE
GSC	GALVANIZED STEEL CONDUIT
HDHH	HEAVY DUTY HANDHOLE
(I)	INSTALL
NTS	NOT TO SCALE
OFF	OFFSET
PR	PROPOSED
(R)	REMOVE
SM	SINGLE MODE
STA	STATION
TRNS	TRANSFORMER
X/C	"X" NUMBER OF CONDUCTORS

LINESTYLES FOR EXISTING CONDITIONS

- E —— E —— ELECTRICAL CABLE IN CONDUIT*
- FO —— FO —— FIBER OPTIC CABLE IN CONDUIT*
- E —— E —— CONDUIT AND ELECTRICAL CABLE TO REMAIN**
- FO —— FO —— CONDUIT AND FIBER OPTIC CABLE TO REMAIN**
- 2" CONDUIT W/4C #18

*CABLE TO BE REMOVED; CONDUIT TO BE ABANDONED
 **UNLESS OTHERWISE NOTED ON THE PLANS

LINESTYLES FOR PROPOSED WORK

- E —— E —— CONDUIT FOR FUTURE ELECTRICAL CABLE*
 - 2" CONDUIT W/4C #18 CABLE(S)*
 - CONDUIT SLEEVE*
- *TYPE AND SIZE OR QUANTITY AS INDICATED ON PLANS

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PLOT DATE = 5/31/2024	DATE - 6/4/2024	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

ITS LEGEND

SCALE: NONE SHEET 1 OF 24 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 21 STRUCTURE 5	WILL	525	327
CONTRACT NO. 62R26				
ILLINOIS		FED. AID PROJECT		

GENERAL NOTES

1. A MINIMUM OF SEVENTY-TWO (72) HOURS BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL JULIE AT (800) 892-0123 OR 811 TO HAVE THE LOCATION OF EXISTING UNDERGROUND UTILITIES MARKED IN THE FIELD.
2. IDOT FACILITIES ARE NOT LOCATED BY JULIE OR DIGGER. IDOT ELECTRICAL FACILITIES INCLUDING ROADWAY LIGHTING, FIBER OPTIC, ITS EQUIPMENT, TRAFFIC SIGNAL AND PUMP STATION FACILITIES ARE LOCATED BY THE DEPARTMENT'S ELECTRICAL MAINTENANCE CONTRACTOR. AS OF THE LETTING DATE, CONTACT THE MEADE ELECTRIC COMPANY AT 773-287-7672.
3. AFTER THE INITIAL LOCATE OF IDOT FACILITIES, THE CONTRACTOR WILL BE RESPONSIBLE FOR LOCATING EXISTING IDOT ELECTRICAL FACILITIES AT HIS/HER OWN EXPENSE. THE CONTRACTOR SHALL ALSO BE LIABLE FOR ANY DAMAGE TO IDOT FACILITIES RESULTING FROM INACCURATE LOCATING.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL UNDERGROUND OR SURFACE UTILITIES EVEN THOUGH THEY MAY NOT BE SHOWN IN THE PLANS. ANY UTILITY THAT IS DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE ENGINEER. THIS WORK WILL BE AT THE CONTRACTOR'S EXPENSE.
5. THE LOCATIONS OF PUBLIC OR PRIVATE UTILITIES SHOWN ON THE PLANS ARE APPROXIMATE AND THEIR ACCURACY IS NOT GUARANTEED. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION AND ELEVATION OF ALL UTILITIES. THE CONTRACTOR SHALL REPORT ANY ENCOUNTERED DISCREPANCIES TO THE ENGINEER AT ONCE. THE CONTRACTOR SHALL TAKE DUE CARE.
6. POTHOLES TO LOCATE EXISTING UNDERGROUND UTILITIES SHALL BE INCLUDED IN THE CONTRACT BID PRICE FOR THE UNDERGROUND CONDUIT PAY ITEMS.
7. THE CONTRACTOR IS RESPONSIBLE FOR THE COST OF UNCOVERING OR HAND DIGGING AROUND UTILITIES AS NECESSARY. THIS COST OF THIS WORK SHALL BE INCLUDED IN THE UNIT PRICES FOR THE CONDUITS.
8. THE CONTRACTOR SHALL VERIFY ADEQUATE CLEARANCE OVER/UNDER EXISTING AND PROPOSED FACILITIES BEFORE INSTALLING DUCTS, CONDUIT AND CABLES. WHERE THE CONTRACTOR'S EXCAVATION MEETS AN OBSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE ENGINEER FOR DIRECTION IN WRITING PRIOR TO EXCAVATION.
9. CONDUIT CROSSING OVER/UNDER OTHER UTILITIES OR DRAINAGE SHALL MAINTAIN A SEPERATION OF AT LEAST 18 INCHES OR AS SPECIFIED BY OWNING UTILITY.
10. CONDUITS AND UNIT DUCTS SHALL BE INSTALLED AT A MINIMUM 30" DEPTH BELOW GRADE AND POSITIONED IN THE FIELD TO AVOID CONFLICT WITH ROADWAY UNDERDRAINS AND OTHER EXISTING AND PROPOSED UTILITIES.
11. NO ADDITIONAL COMPENSATION SHALL BE ALLOWED FOR PLACING CONDUIT AT GREATER THAN 30 INCHES MINIMUM DEPTH TO AVOID OBSTACLES SUCH AS UNDERGROUND UTILITIES, DRAIANGE PIPES, AND STRUCTURES OR TO ENTER COMMUNICATIONS VAULTS OR HANDHOLES.
12. THE CONTRACTOR SHALL AVOID TRENCHING THROUGH WETLAND AREA, ROADSIDE DITCHES AND RETENTION PONDS.
13. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO ORDERING MATERIALS AND BEGINNING CONSTRUCTION.
14. EXISTING ITS PLAN SHEETS DEPICT EXISTING CONDITIONS AND WORK TO BE PERFORMED TO MAINTAIN, REMOVE, SALVAGE, OR ABANDON EXISTING ITS INFRASTRUCTURE. PROPOSED ITS PLAN SHEETS DEPICT NEW ITS INFRASTRUCTURE TO BE INSTALLED. PLANNED WORK BY CONSTRUCTION CONTRACT 62R28 IS ALSO SHOWN FOR REFERENCE.
15. ALL EXCAVATED MATERIAL, WHICH INCLUDES DIGGING OR GRADING OF ANY SOIL OR FILL MATERIAL, WITH THE EXCEPTION OF AGGREGATE FILLS, MUST BE INCORPORATED WITHIN THE IDOT RIGHT OF WAY DUE TO ENVIRONMENTAL DOCUMENTATION REQUIREMENTS. EXCAVATED MATERIALS SHALL BE DISPOSED OF AT LOCATIONS DESIGNATED BY THE ENGINEER. ANY SUCH DISPOSAL SHALL BE COMPLETED IN SUCH A MANNER THAT PUBLIC OR PRIVATE PROPERTY WILL NOT BE DAMAGED OR ENDANGERED AND SHALL NOT CREATE AN UNSIGHTLY OR OBJECTIONABLE APPEARANCE OR DETRACT FORM THE NATURAL TOPOGRAPHIC FEATURES WITHOUT WRITTEN PERMISSION FROM THE ENGINEER.
16. ALL SURPLUS MATERIALS SHALL BE DISPOSED OF IN ACCORDANCE WITH ARTICLE 202.03 OF THE STANDARD SPECIFICATIONS.
17. ELECTRICAL WORK SHALL CONFORM WITH NATIONAL, STATE, AND LOCAL CODES.
18. ANY REFERENCE TO A STANDARD IN THESE PLANS SHALL BE INTERPRETED TO MEAN THE EDITION AS INDICATED BY THE SUBNUMBER SHOWN IN THE LIST OF STANDARDS OR THE COPY INCLUDED IN THESE PLANS.
19. ELECTRICAL HANDHOLE COVER LEGEND SHALL BE "IDOT ITS".
20. ITS SYMBOLS ARE OVERSIZED ON THE PLANS FOR CLARITY. CONTRACTOR SHALL USE STATIONS AND OFFSETS TO ACCURATELY LOCATE EQUIPMENT.

BILL OF MATERIALS

ITEM	DESCRIPTION	UNIT	QTY
80400100	ELECTRIC SERVICE INSTALLATION	EACH	1
80400200	ELECTRIC UTILITY SERVICE CONNECTION	L SUM	1
81028200	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	123
81028240	UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	360
81028750	UNDERGROUND CONDUIT, COILABLE NONMETALLIC CONDUIT, 2" DIA.	FOOT	1,798
81400200	HEAVY-DUTY HANDHOLE	EACH	6
81702130	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 6	FOOT	3,631
81702150	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 2	FOOT	7,622
84500120	REMOVAL OF ELECTRIC SERVICE INSTALLATION	EACH	1
87900205	DRILL EXISTING HEAVY DUTY HANDHOLE	EACH	2
89502380	REMOVE EXISTING HANDHOLE	EACH	1
89502300	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	3,247
X0326944	ATMS INTEGRATION	L SUM	1
X0327616	MAINTAINING ITS DURING CONSTRUCTION	CAL MO	24
X8730312	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 18 4/C, TWISTED, SHIELDED	FOOT	4,091
X8850102	INDUCTION LOOP	FOOT	174
X8950114	MODIFY EXISTING CONTROLLER AND CABINET	EACH	2
X8950450	REMOVE EXISTING UNDERGROUND CONDUIT	FOOT	8

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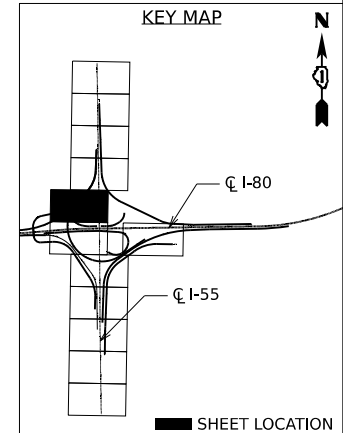
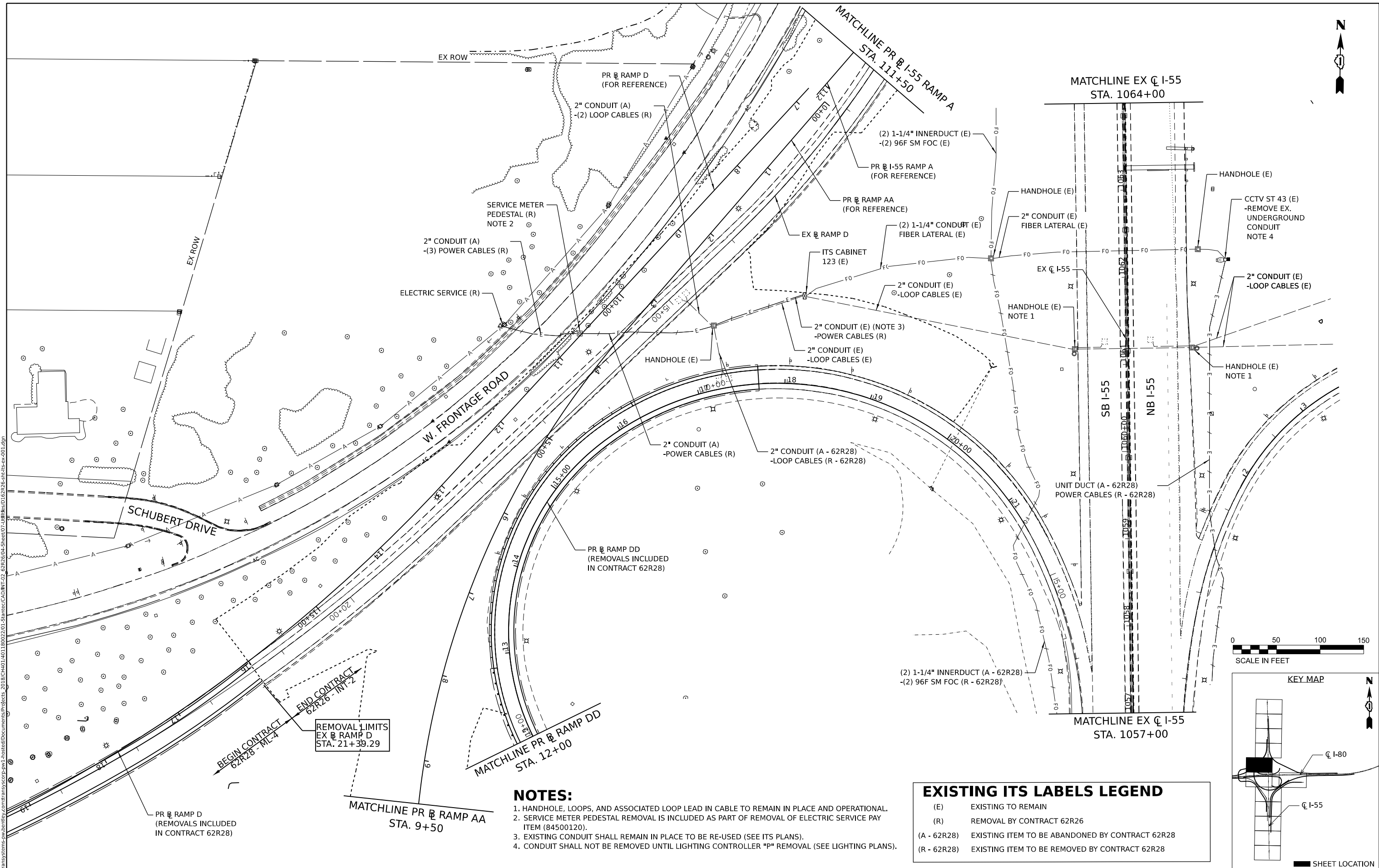
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ITS NOTES AND BILL OF MATERIAL

SCALE: NONE SHEET 2 OF 24 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 21 STRUCTURE 5	WILL	525	328
CONTRACT NO. 62R26			ILLINOIS FED. AID PROJECT	



- NOTES:**
1. HANDHOLE, LOOPS, AND ASSOCIATED LOOP LEAD IN CABLE TO REMAIN IN PLACE AND OPERATIONAL.
 2. SERVICE METER PEDESTAL REMOVAL IS INCLUDED AS PART OF REMOVAL OF ELECTRIC SERVICE PAY ITEM (84500120).
 3. EXISTING CONDUIT SHALL REMAIN IN PLACE TO BE RE-USED (SEE ITS PLANS).
 4. CONDUIT SHALL NOT BE REMOVED UNTIL LIGHTING CONTROLLER "P" REMOVAL (SEE LIGHTING PLANS).

EXISTING ITS LABELS LEGEND

(E)	EXISTING TO REMAIN
(R)	REMOVAL BY CONTRACT 62R26
(A - 62R28)	EXISTING ITEM TO BE ABANDONED BY CONTRACT 62R28
(R - 62R28)	EXISTING ITEM TO BE REMOVED BY CONTRACT 62R28

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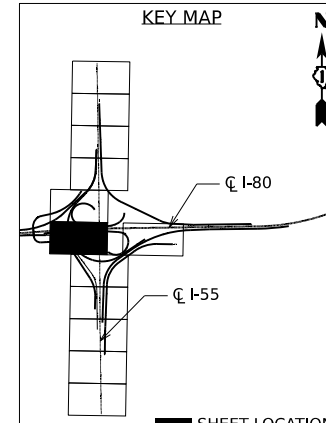
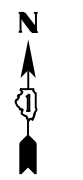
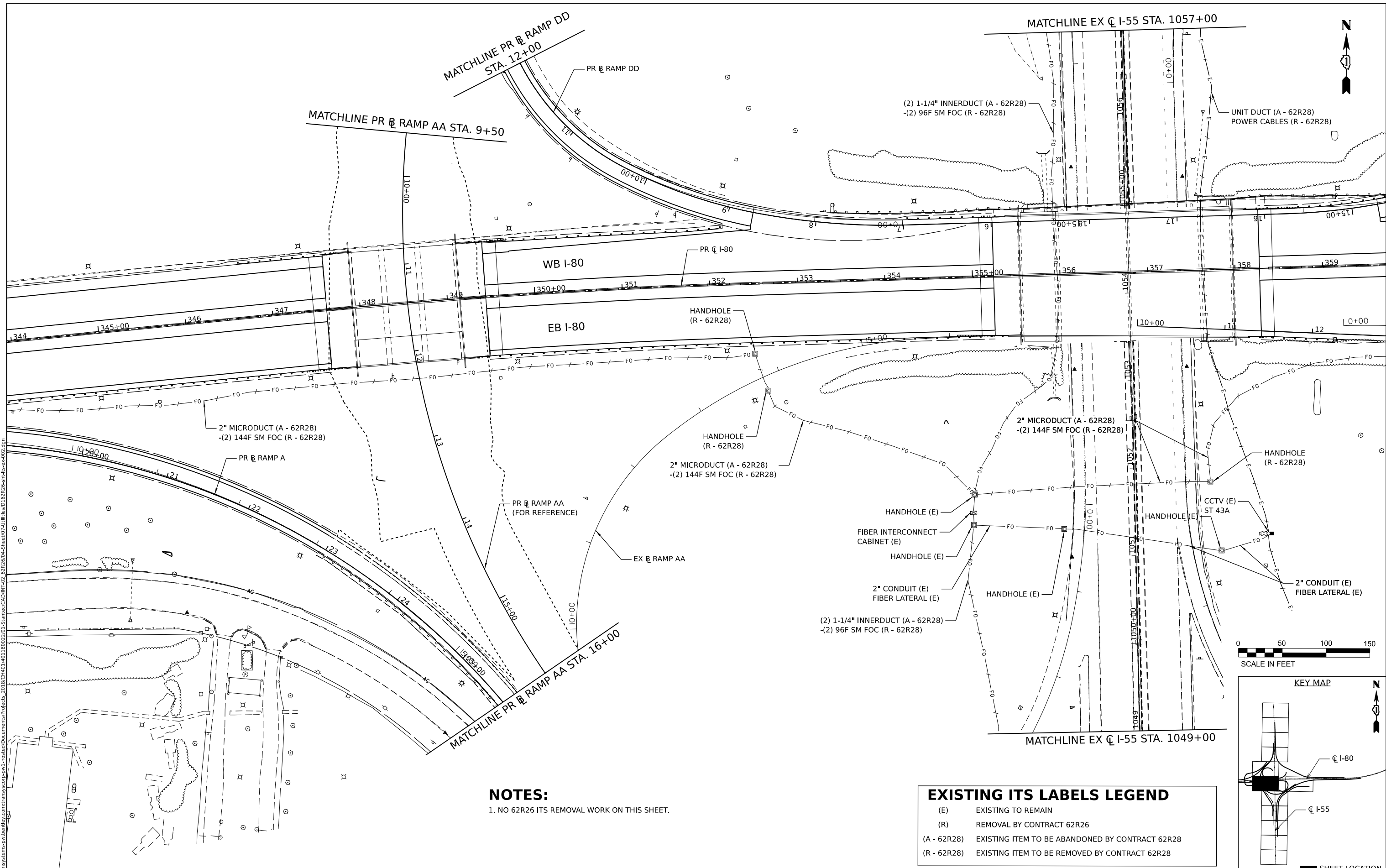
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

EXISTING ITS PLAN

SCALE: 1" = 50' SHEET 3 OF 24 SHEETS STA. 1057+00 TO STA. 1064+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 21 STRUCTURE 5	WILL	525	329
CONTRACT NO. 62R26				
ILLINOIS FED. AID PROJECT				

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NOTES:
 1. NO 62R26 ITS REMOVAL WORK ON THIS SHEET.

EXISTING ITS LABELS LEGEND	
(E)	EXISTING TO REMAIN
(R)	REMOVAL BY CONTRACT 62R26
(A - 62R28)	EXISTING ITEM TO BE ABANDONED BY CONTRACT 62R28
(R - 62R28)	EXISTING ITEM TO BE REMOVED BY CONTRACT 62R28



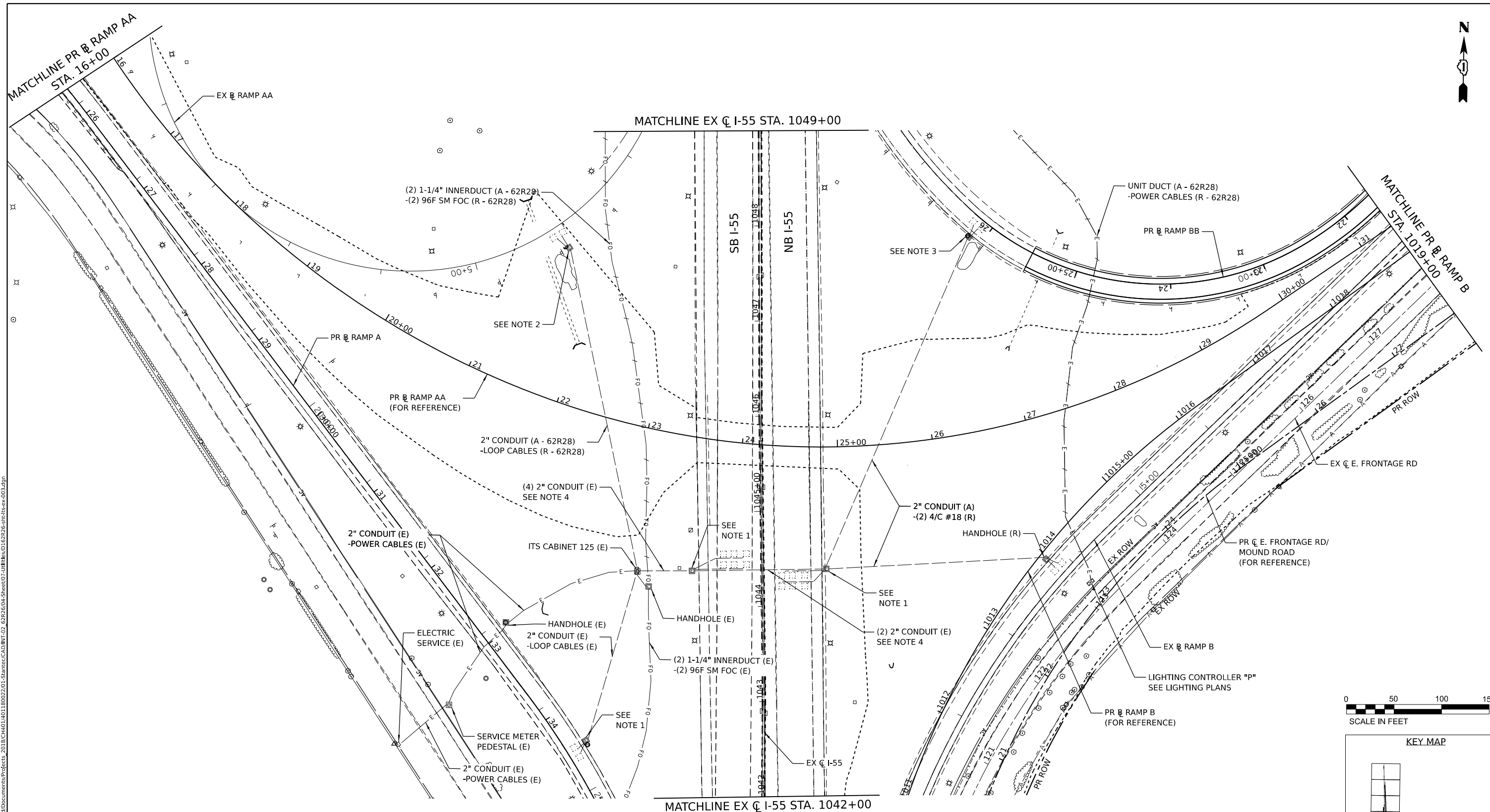
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

EXISTING ITS PLAN

SCALE: 1" = 50' SHEET 4 OF 24 SHEETS STA. 1049+00 TO STA. 1057+00

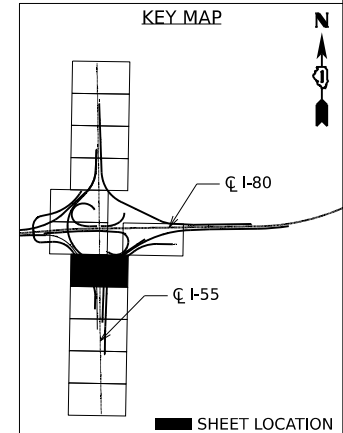
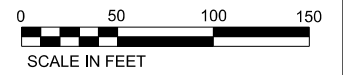
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 21 STRUCTURE 5	WILL	525	330
CONTRACT NO. 62R26			ILLINOIS FED. AID PROJECT	



NOTES:

1. HANDHOLE, LOOPS, AND ASSOCIATED LEAD IN CABLES TO REMAIN IN PLACE AND OPERATIONAL.
2. HANDOLE, LOOPS, AND ASSOCIATED LEAD IN CABLES TO BE REMOVED BY CONTRACT 62R28.
3. HANDHOLE AND LOOPS TO REMAIN. EXISTING LOOP LEAD-IN CABLES BETWEEN HANDHOLE AND ITS CABINET 125 TO BE REMOVED. SEE ITS PLANS FOR NEW LOOP LEAD-IN CONDUIT AND CABLE INSTALLATION PLAN.
4. REMOVE FOUR (4) LOOP LEAD-IN CABLES ASSOCIATED WITH EXISTING RAMP B AND RAMP BB LOOPS. ALL OTHER EXISTING LOOP LEAD-IN CABLES TO REMAIN IN PLACE AND OPERATIONAL.

EXISTING ITS LABELS LEGEND	
(E)	EXISTING TO REMAIN
(R)	REMOVAL BY CONTRACT 62R26
(A - 62R28)	EXISTING ITEM TO BE ABANDONED BY CONTRACT 62R28
(R - 62R28)	EXISTING ITEM TO BE REMOVED BY CONTRACT 62R28



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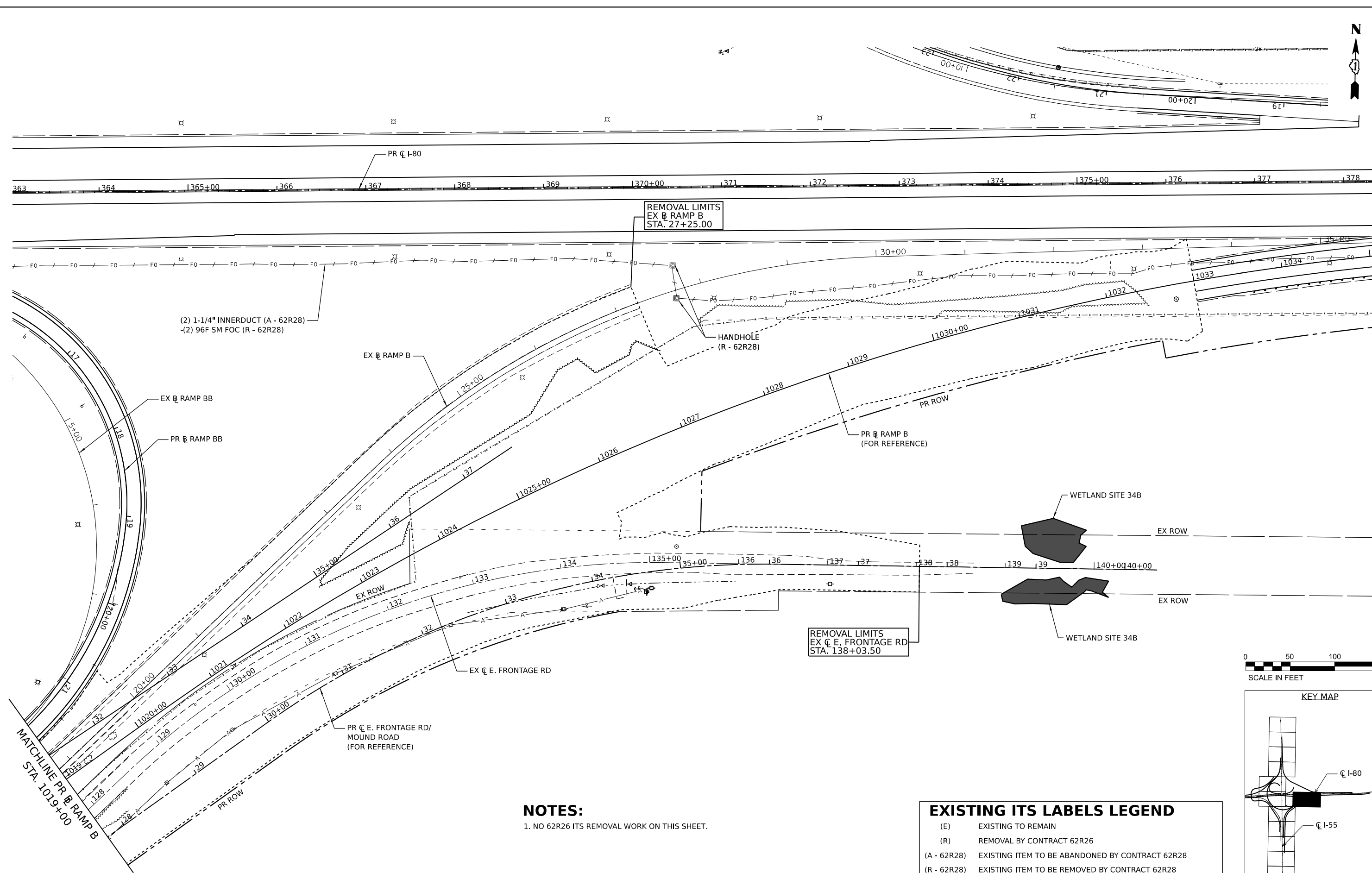
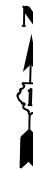
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PLOT DATE	= 5/31/2024	DATE	- 6/4/2024	REVISIONS	-

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

EXISTING ITS PLAN

SCALE: 1" = 50' SHEET 5 OF 24 SHEETS STA. 1042+00 TO STA. 1049+00

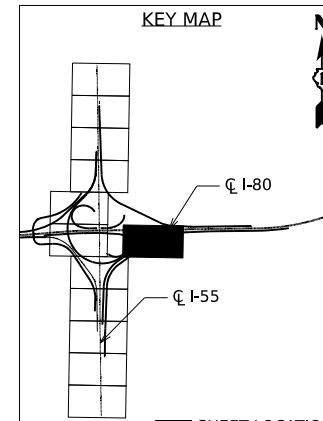
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 21 STRUCTURE 5	WILL	525	331
CONTRACT NO. 62R26				
ILLINOIS FED. AID PROJECT				



NOTES:
1. NO 62R26 ITS REMOVAL WORK ON THIS SHEET.

EXISTING ITS LABELS LEGEND

- (E) EXISTING TO REMAIN
- (R) REMOVAL BY CONTRACT 62R26
- (A - 62R28) EXISTING ITEM TO BE ABANDONED BY CONTRACT 62R28
- (R - 62R28) EXISTING ITEM TO BE REMOVED BY CONTRACT 62R28



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TranSmart
100 S. Wacker Drive Suite 400
Chicago, Illinois 60606

USER NAME	dmeier	DESIGNED	- DJM	REVISED	-
DRAWN	- DJM	REVISIONS	-		
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PLOT DATE	= 5/31/2024	DATE	= 6/4/2024	REVISED	-

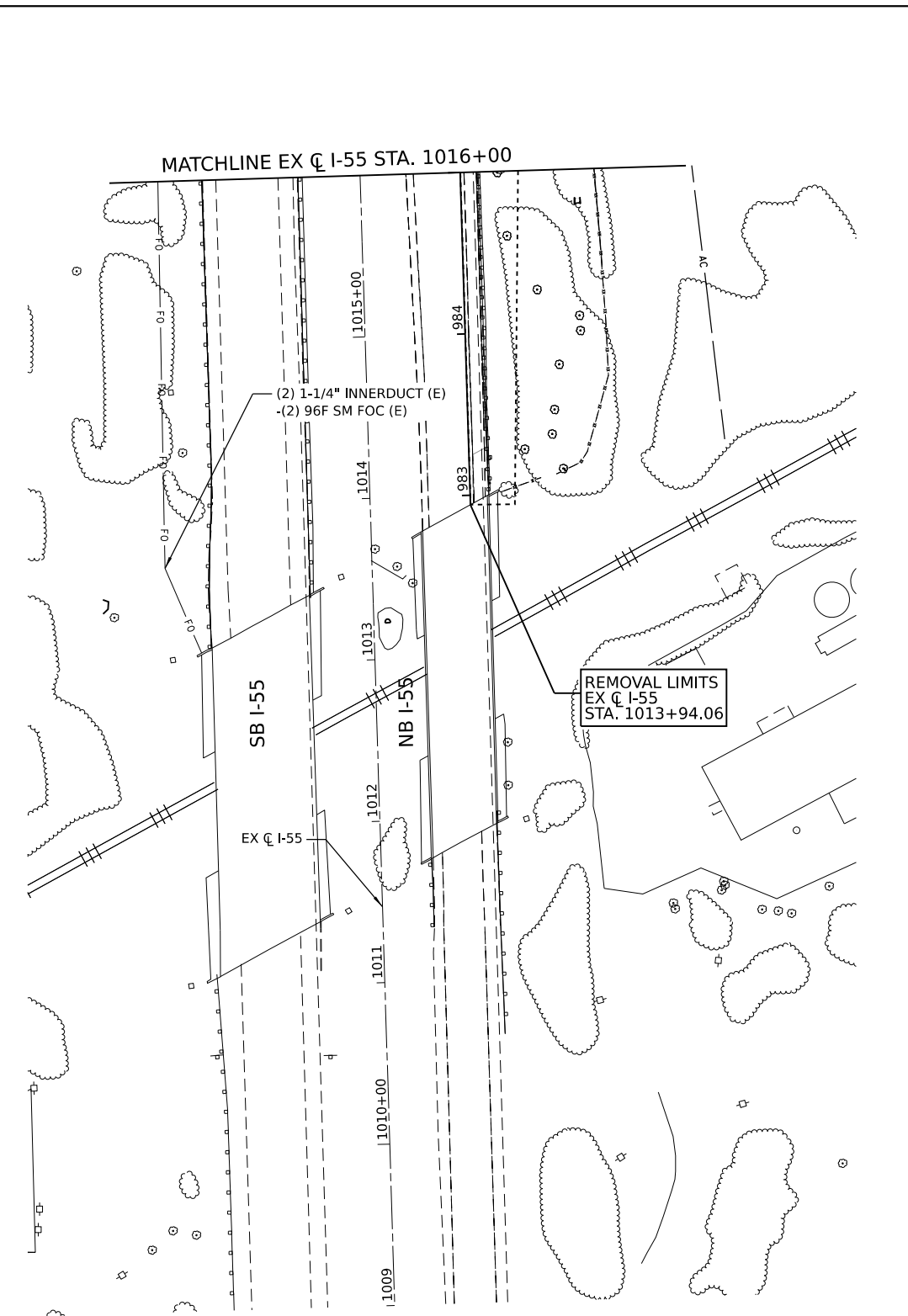
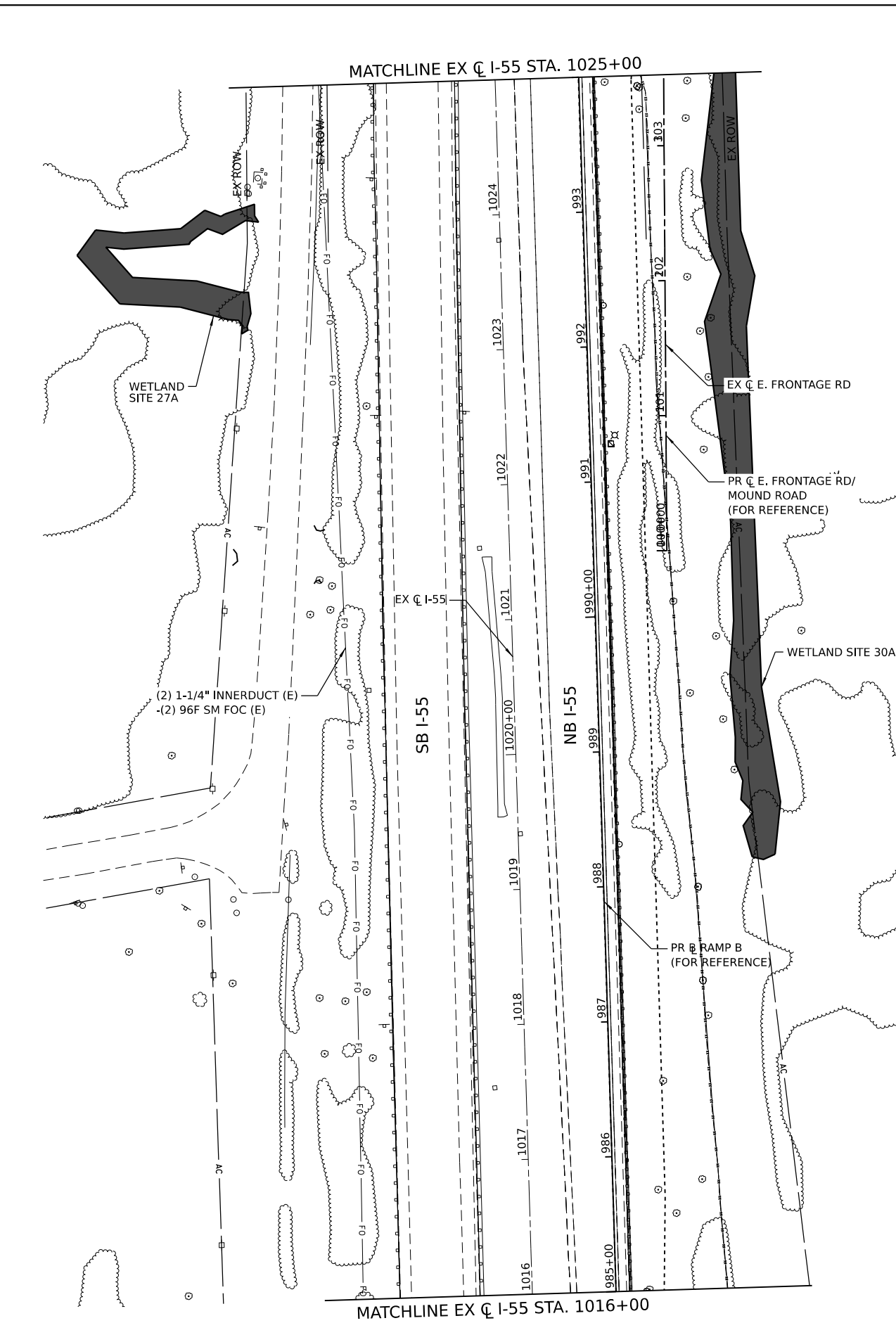
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

EXISTING ITS PLAN

SCALE: 1" = 50' SHEET 6 OF 24 SHEETS STA. 1019+00 TO STA. 1035+00

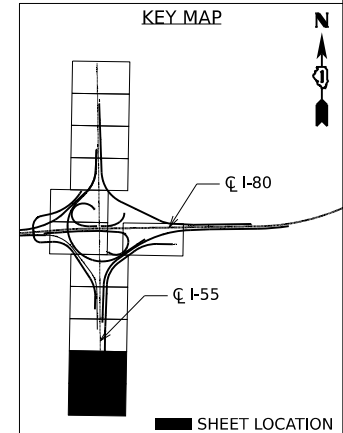
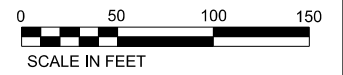
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 21 STRUCTURE 5	WILL	525	332
CONTRACT NO. 62R26			ILLINOIS FED. AID PROJECT	

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NOTES:
1. NO 62R26 ITS REMOVAL WORK ON THIS SHEET.

EXISTING ITS LABELS LEGEND	
(E)	EXISTING TO REMAIN
(R)	REMOVAL BY CONTRACT 62R26
(A - 62R28)	EXISTING ITEM TO BE ABANDONED BY CONTRACT 62R28
(R - 62R28)	EXISTING ITEM TO BE REMOVED BY CONTRACT 62R28



USER NAME	dmeyer	DESIGNED	- DJM	REVISED	-
DRAWN	- DJM	REVISION	-		
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PLOT DATE	= 5/31/2024	DATE	- 6/4/2024	REVISED	-

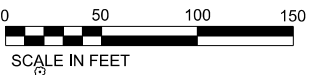
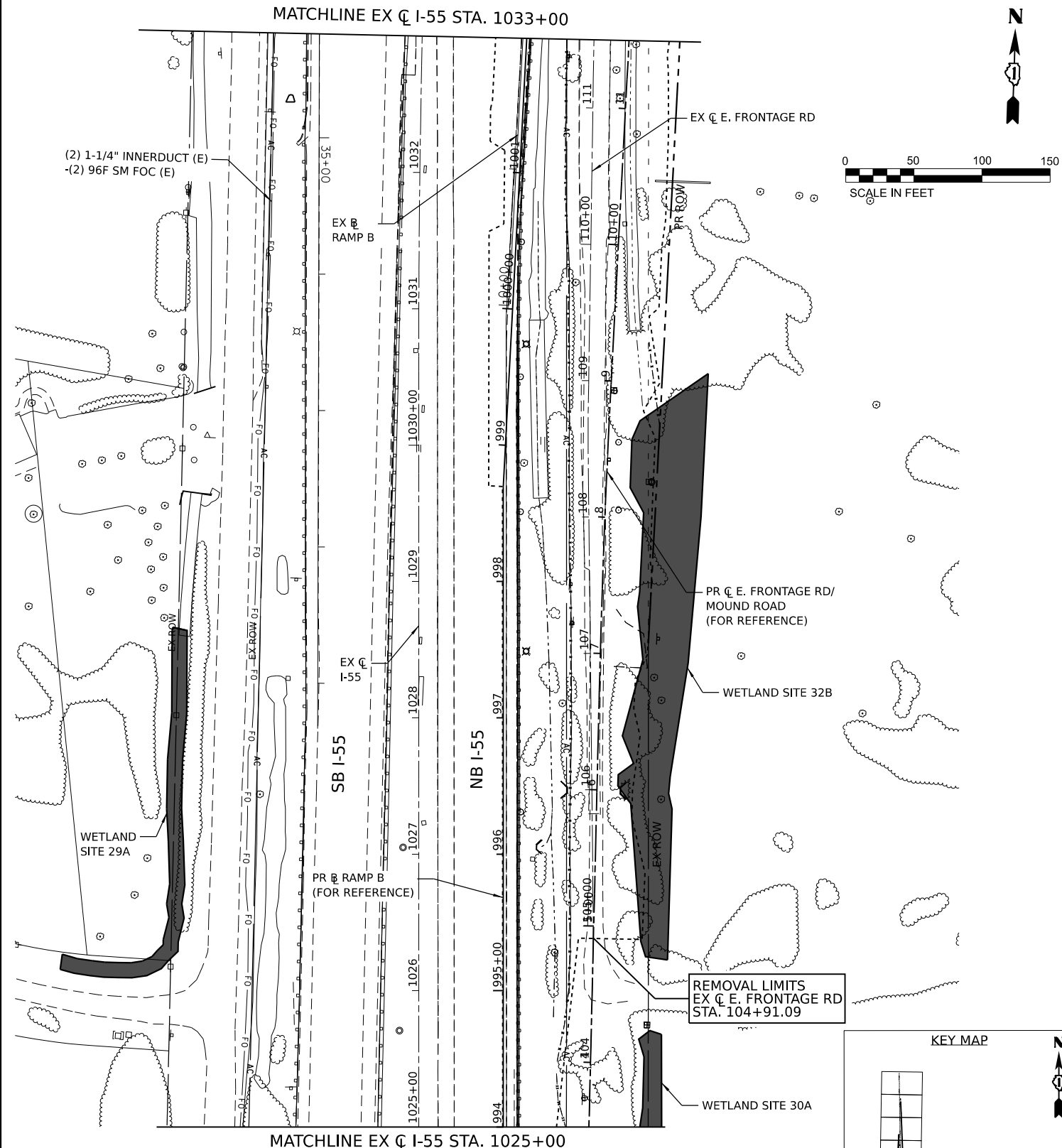
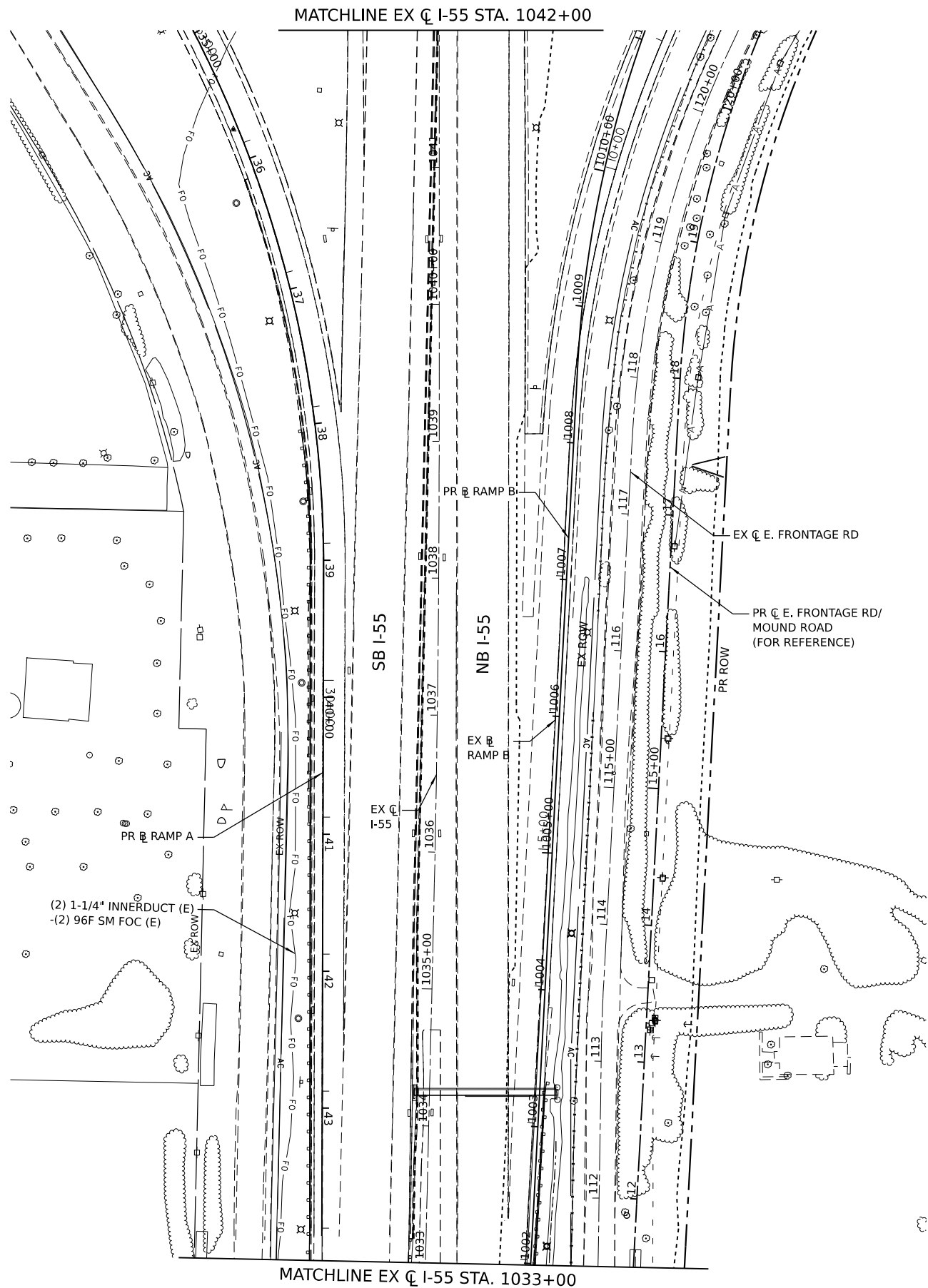
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

EXISTING ITS PLAN

SCALE: 1" = 50' SHEET 7 OF 24 SHEETS STA. 1009+00 TO STA. 1025+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 21 STRUCTURE 5	WILL	525	333
CONTRACT NO. 62R26				
ILLINOIS FED. AID PROJECT				

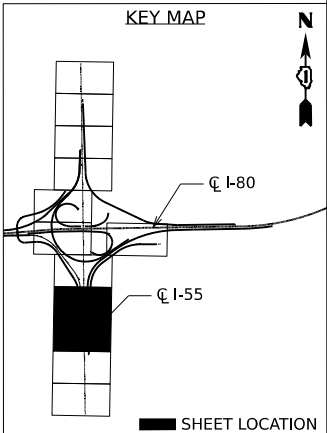
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NOTES:
 1. NO 62R26 ITS REMOVAL WORK ON THIS SHEET.

EXISTING ITS LABELS LEGEND

(E)	EXISTING TO REMAIN
(R)	REMOVAL BY CONTRACT 62R26
(A - 62R28)	EXISTING ITEM TO BE ABANDONED BY CONTRACT 62R28
(R - 62R28)	EXISTING ITEM TO BE REMOVED BY CONTRACT 62R28



USER NAME	dmeier	DESIGNED	- DJM	REVISED	-
DRAWN	- DJM	REVISION	-	REVISION	-
PLOT SCALE	= 100.000' / in.	CHECKED	- REL	REVISION	-
PLOT DATE	= 5/31/2024	DATE	= 6/4/2024	REVISION	-

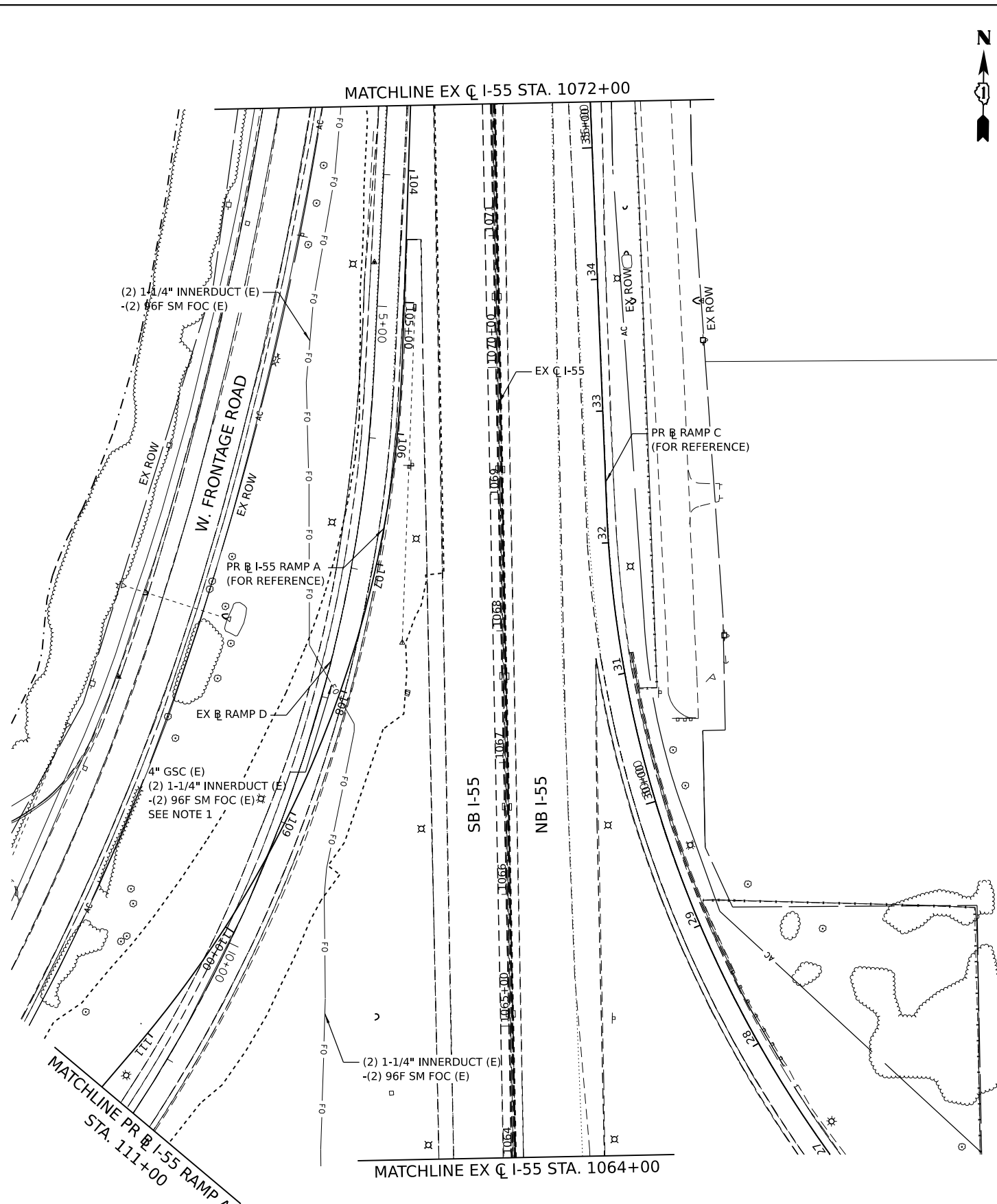
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

EXISTING ITS PLAN

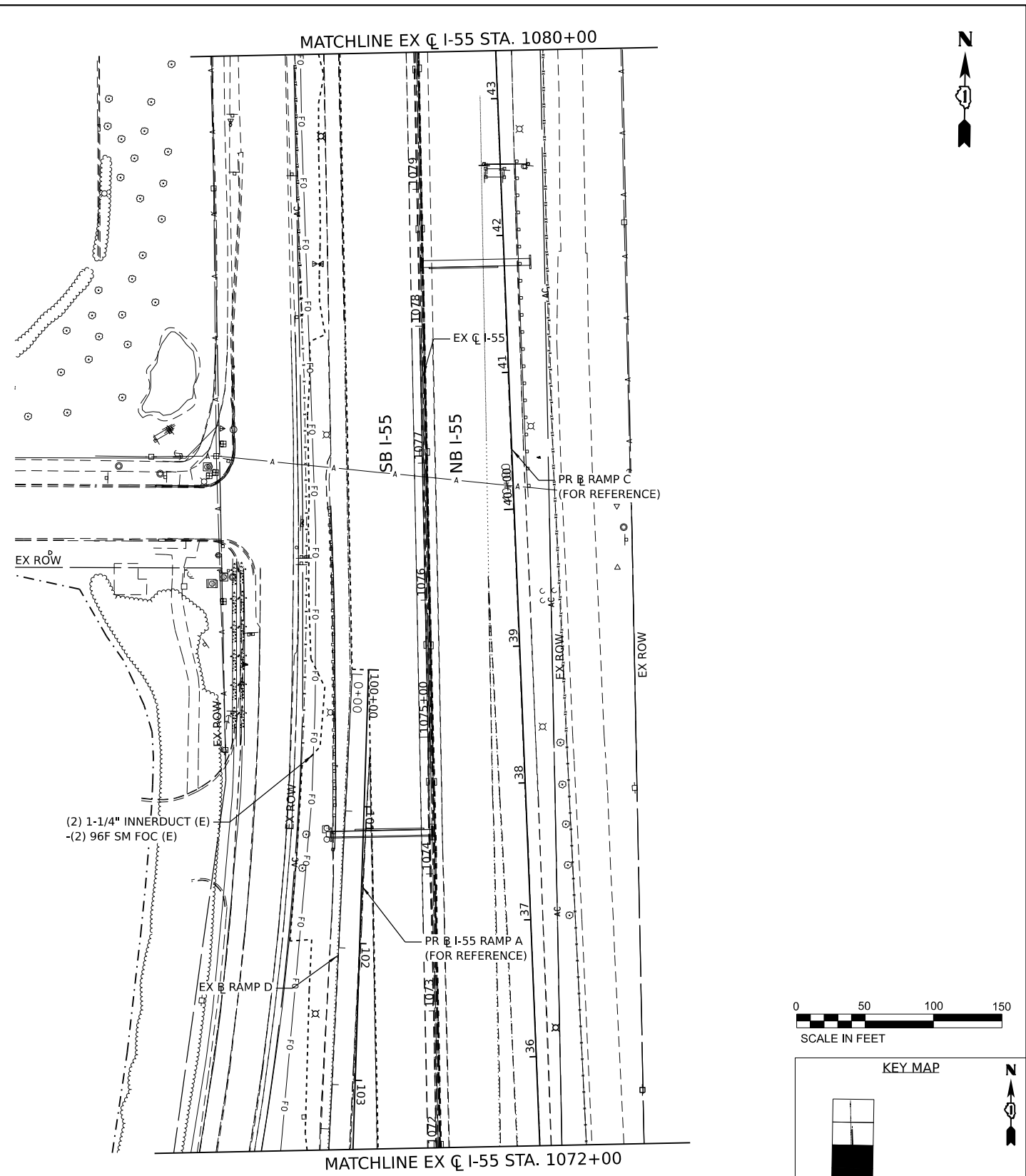
SCALE: 1" = 50' SHEET 8 OF 24 SHEETS STA. 1025+00 TO STA. 1042+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 21 STRUCTURE 5	WILL	525	334
CONTRACT NO. 62R26				
ILLINOIS FED. AID PROJECT				

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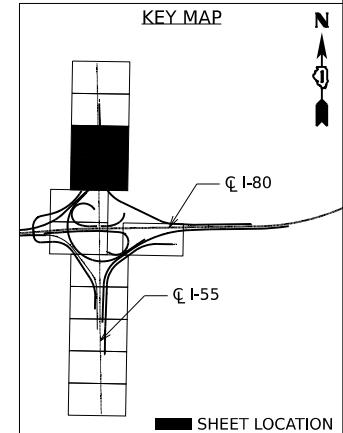
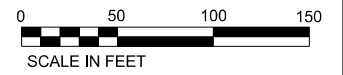


NOTES:
 1. EXISTING FIBER OPTIC CABLE TO BE PROTECTED IN PLACE DURING 62R26 CONSTRUCTION AS PART OF "MAINTAINING ITS DURING CONSTRUCTION" PAY ITEM.



EXISTING ITS LABELS LEGEND

- (E) EXISTING TO REMAIN
- (R) REMOVAL BY CONTRACT 62R26
- (A - 62R28) EXISTING ITEM TO BE ABANDONED BY CONTRACT 62R28
- (R - 62R28) EXISTING ITEM TO BE REMOVED BY CONTRACT 62R28



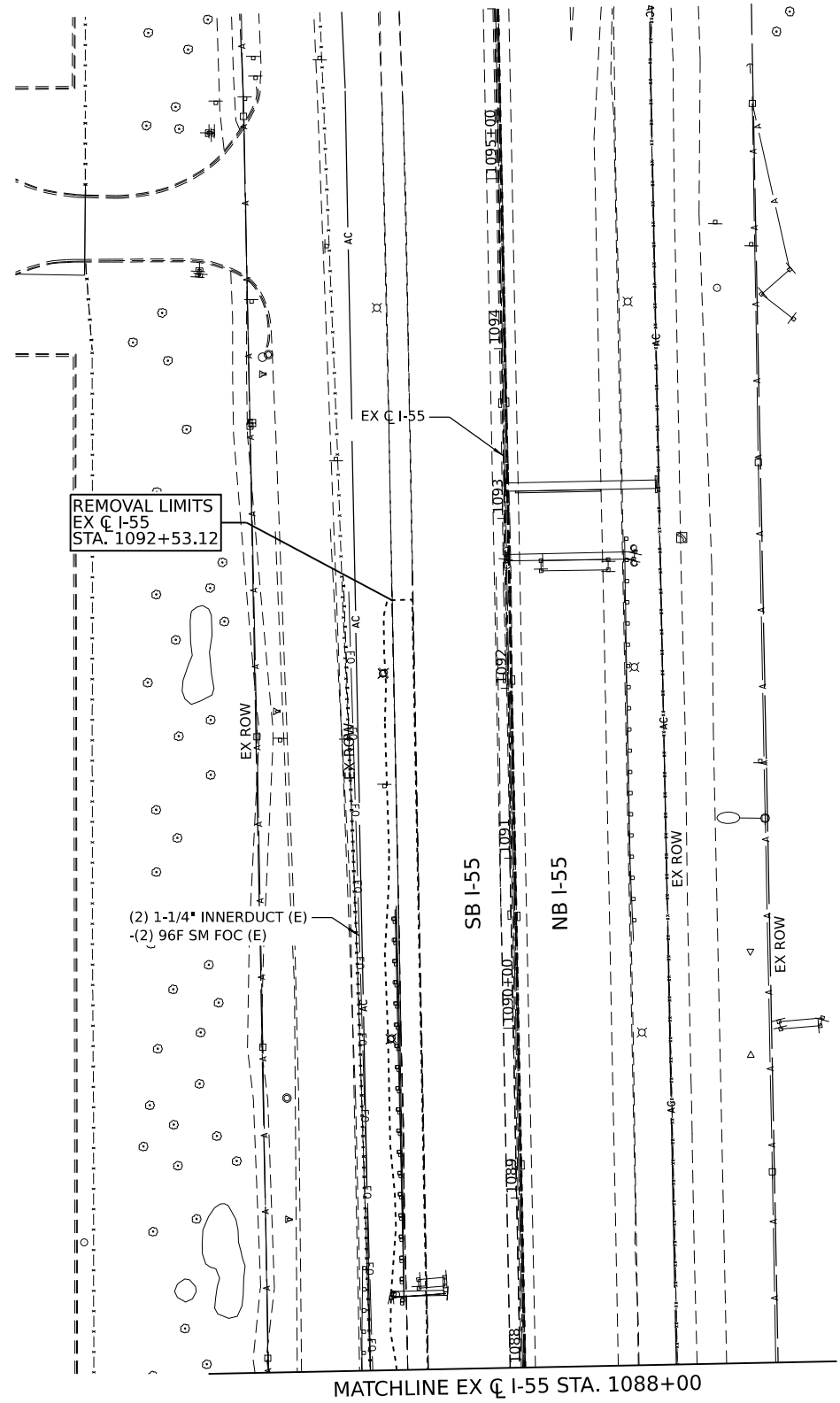
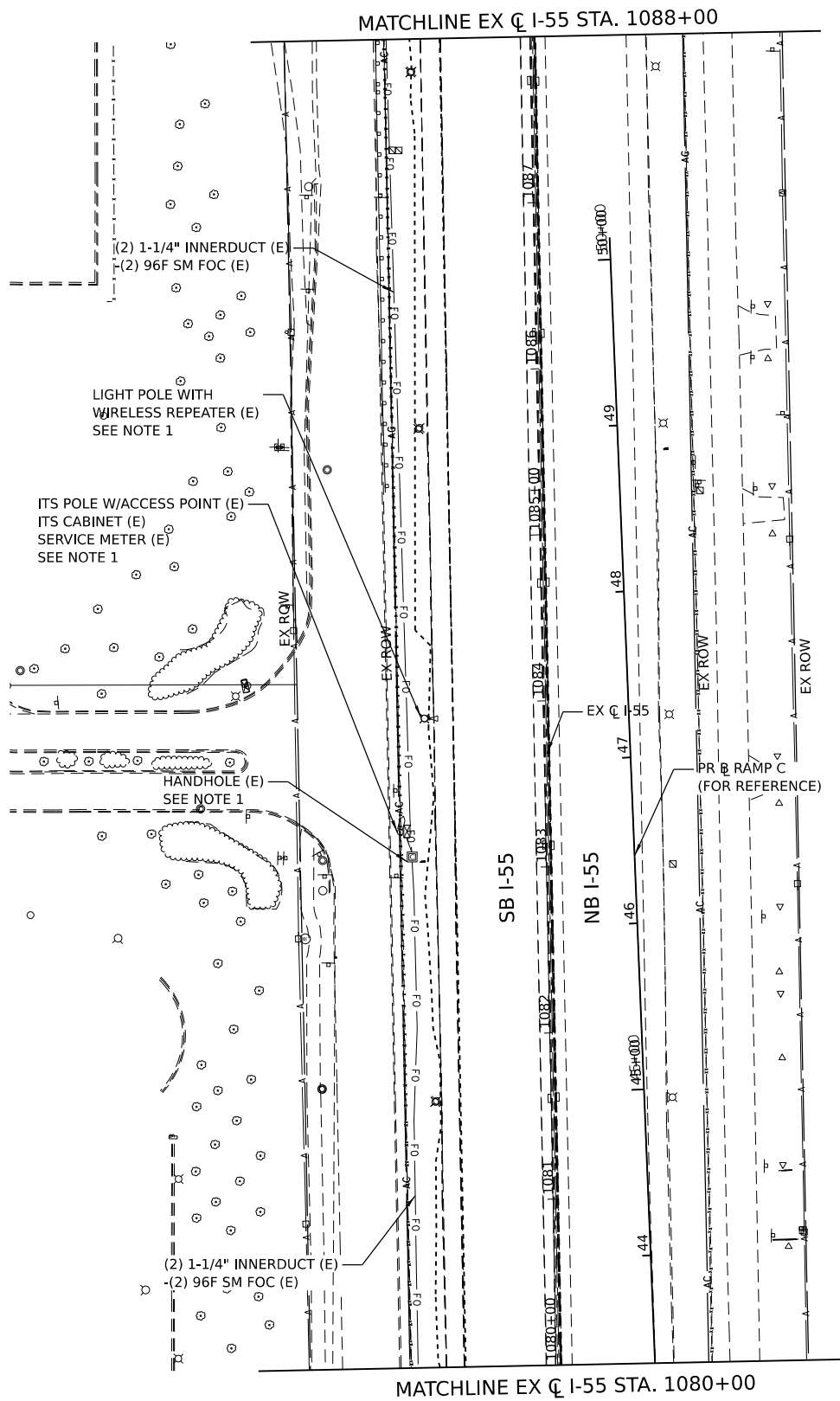
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DRAWN	- DJM	REVISIONS	-		
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PLOT DATE	= 5/31/2024	DATE	- 6/4/2024	REVISED	-

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

EXISTING ITS PLAN

SCALE: 1" = 50' SHEET 9 OF 24 SHEETS STA. 1064+00 TO STA. 1080+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 21 STRUCTURE 5	WILL	525	335
CONTRACT NO. 62R26				
ILLINOIS FED. AID PROJECT				

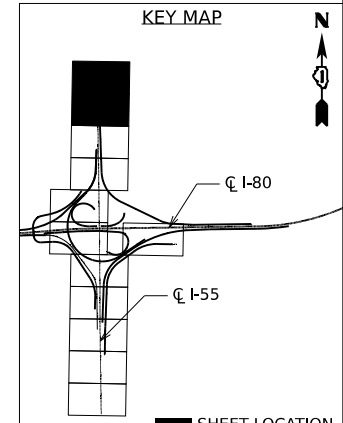
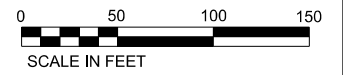


NOTES:

- 1. PROTECT AND MAINTAIN IN PLACE DURING 62R26 CONSTRUCTION (INCLUDED AS PART OF "MAINTAINING ITS DURING CONSTRUCTION" PAY ITEM).

EXISTING ITS LABELS LEGEND

- (E) EXISTING TO REMAIN
- (R) REMOVAL BY CONTRACT 62R26
- (A - 62R28) EXISTING ITEM TO BE ABANDONED BY CONTRACT 62R28
- (R - 62R28) EXISTING ITEM TO BE REMOVED BY CONTRACT 62R28



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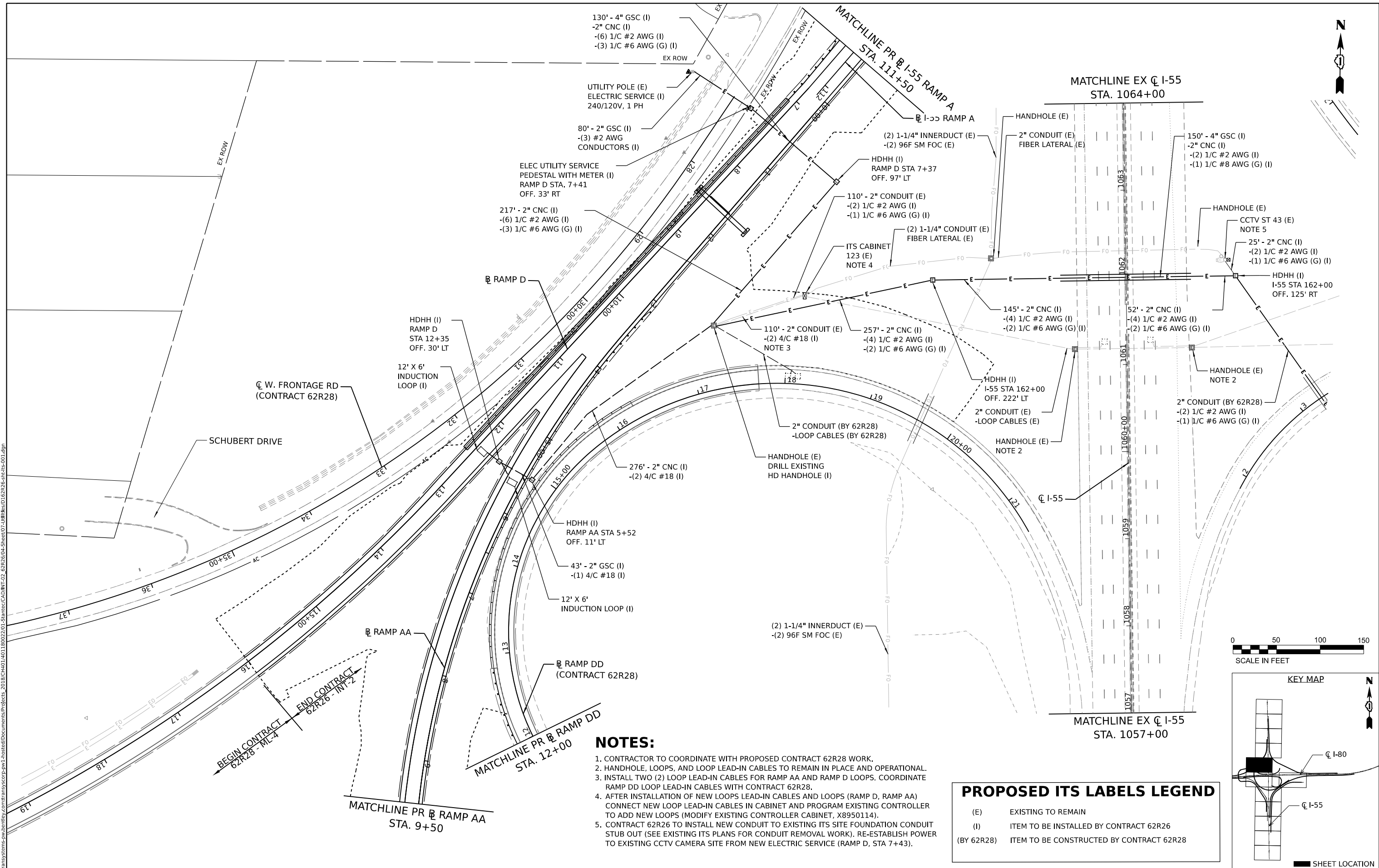
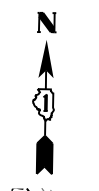
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DRAWN	- DJM	REVISIONS	-	REVISIONS	-
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PLOT DATE	= 5/31/2024	DATE	- 6/4/2024	REVISIONS	-

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

EXISTING ITS PLAN

SCALE: 1" = 50' SHEET 10 OF 24 SHEETS STA. 1080+00 TO STA. 1096+00

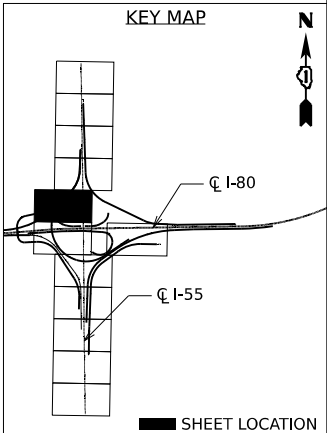
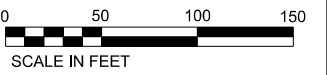
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 21 STRUCTURE 5	WILL	525	336
CONTRACT NO. 62R26				
ILLINOIS FED. AID PROJECT				



- NOTES:**
1. CONTRACTOR TO COORDINATE WITH PROPOSED CONTRACT 62R28 WORK.
 2. HANDHOLE, LOOPS, AND LOOP LEAD-IN CABLES TO REMAIN IN PLACE AND OPERATIONAL.
 3. INSTALL TWO (2) LOOP LEAD-IN CABLES FOR RAMP AA AND RAMP D LOOPS. COORDINATE RAMP DD LOOP LEAD-IN CABLES WITH CONTRACT 62R28.
 4. AFTER INSTALLATION OF NEW LOOPS LEAD-IN CABLES AND LOOPS (RAMP D, RAMP AA) CONNECT NEW LOOP LEAD-IN CABLES IN CABINET AND PROGRAM EXISTING CONTROLLER TO ADD NEW LOOPS (MODIFY EXISTING CONTROLLER CABINET, X8950114).
 5. CONTRACT 62R26 TO INSTALL NEW CONDUIT TO EXISTING ITS SITE FOUNDATION CONDUIT STUB OUT (SEE EXISTING ITS PLANS FOR CONDUIT REMOVAL WORK). RE-ESTABLISH POWER TO EXISTING CCTV CAMERA SITE FROM NEW ELECTRIC SERVICE (RAMP D, STA 7+43).

PROPOSED ITS LABELS LEGEND

(E)	EXISTING TO REMAIN
(I)	ITEM TO BE INSTALLED BY CONTRACT 62R26
(BY 62R28)	ITEM TO BE CONSTRUCTED BY CONTRACT 62R28



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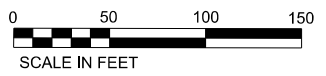
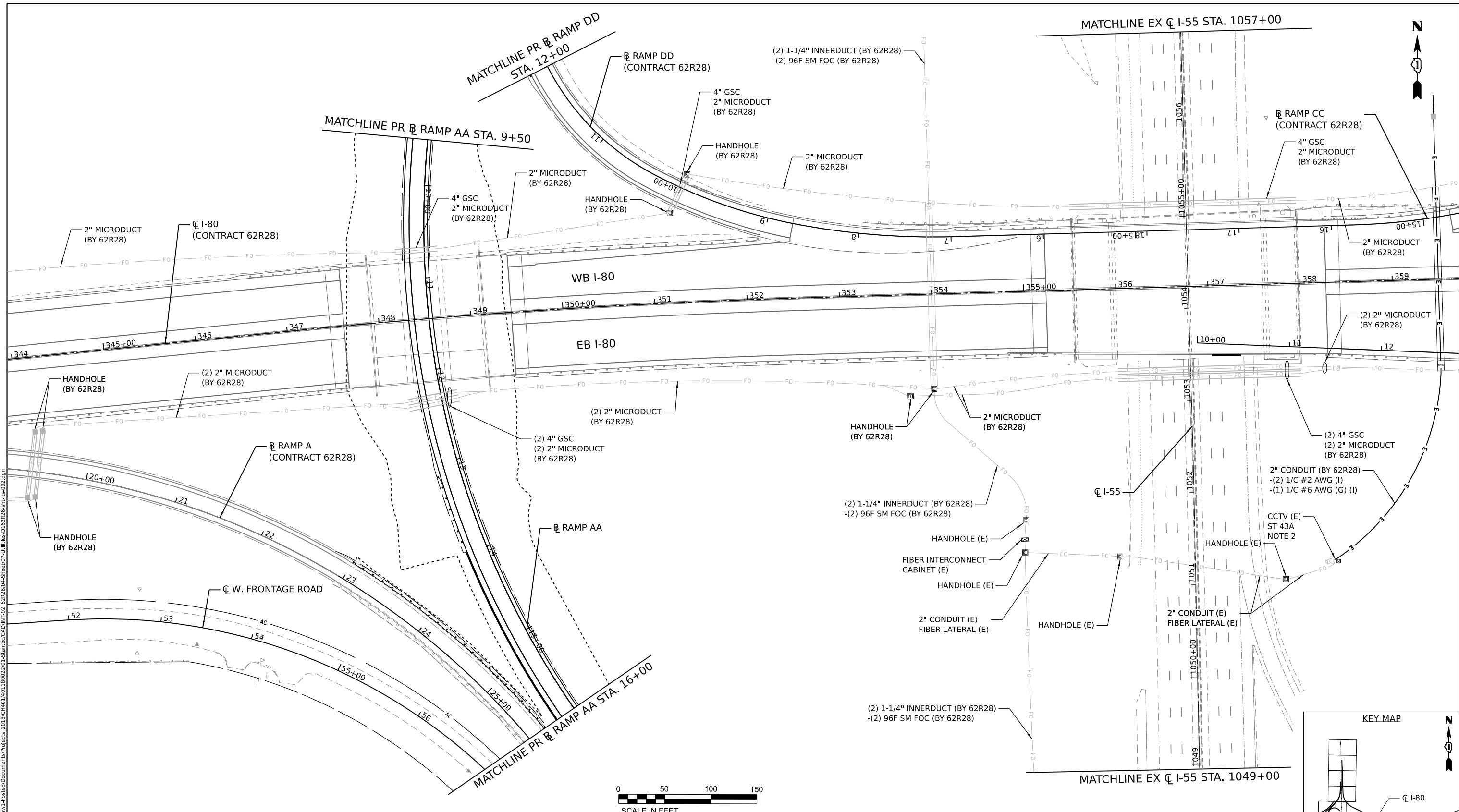
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PLOT DATE	= 5/31/2024	DATE	= 6/4/2024	REVISOR	-

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

ITS PLAN
SCALE: 1" = 50' SHEET 11 OF 24 SHEETS STA. 1057+00 TO STA. 1064+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 21 STRUCTURE 5	WILL	525	337
CONTRACT NO. 62R26				
ILLINOIS		FED. AID PROJECT		

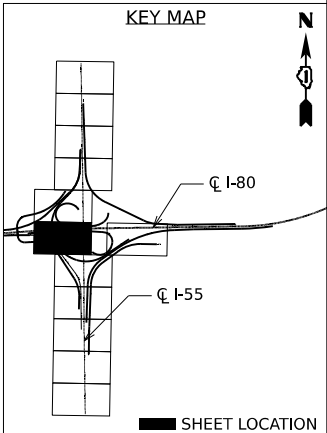
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- NOTES:**
1. CONTRACTOR TO COORDINATE WITH PROPOSED CONTRACT 62R28 ITS WORK.
 2. CONTRACT 62R26 TO RE-ESTABLISH POWER TO EXISTING CCTV CAMERA SITE FROM NEW ELECTRIC SERVICE (RAMP D, STA 7+43).

PROPOSED ITS LABELS LEGEND

(E)	EXISTING TO REMAIN
(I)	ITEM TO BE INSTALLED BY CONTRACT 62R26
(BY 62R28)	ITEM TO BE CONSTRUCTED BY CONTRACT 62R28



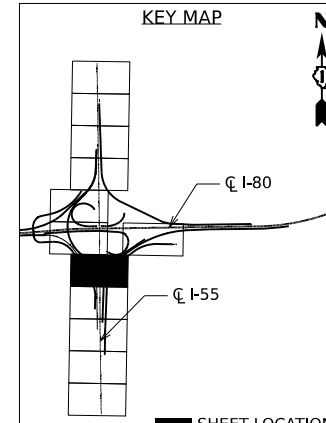
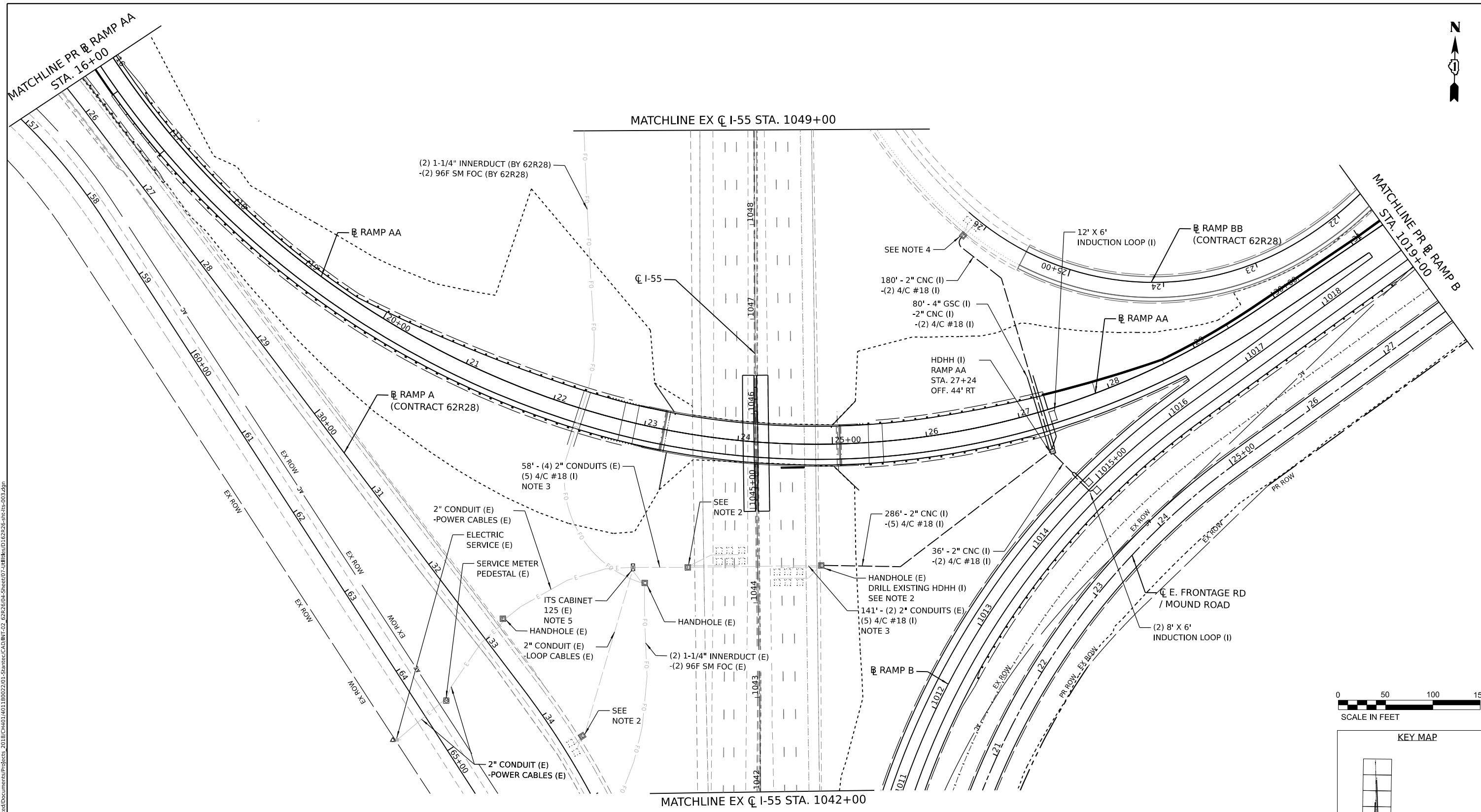
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PLOT DATE	= 5/31/2024	DATE	- 6/4/2024	REVISED	-

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

ITS PLAN
 SCALE: 1" = 50'
 SHEET 12 OF 24 SHEETS
 STA. 1049+00 TO STA. 1057+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 21 STRUCTURE 5	WILL	525	338
CONTRACT NO. 62R26			ILLINOIS FED. AID PROJECT	

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NOTES:

- CONTRACTOR TO COORDINATE WITH PROPOSED CONTRACT 62R28 ITS WORK.
- HANDHOLE, LOOPS, AND LOOP LEAD-IN CABLES TO REMAIN IN PLACE AND OPERATIONAL.
- INSTALL FIVE (5) LOOP LEAD-IN CABLES FOR RAMP AA, RAMP B, AND RAMP BB LOOPS. ALL OTHER EXISTING LOOP LEAD-IN CABLES TO REMAIN IN PLACE AND OPERATIONAL.
- SPLICE NEW LOOP CABLES TO EXISTING LOOP LEAD-IN CABLES IN HANDHOLE TO RE-ESTABLISH OPERATION OF EXISTING LOOPS.
- AFTER INSTALLATION OF NEW LOOP LEAD-IN CABLES AND LOOPS (RAMP AA, RAMP B, RAMP BB) CONNECT NEW LOOP LEAD-IN CABLES IN CABINET AND PROGRAM EXISTING CONTROLLER TO ADD NEW LOOPS (MODIFY EXISTING CONTROLLER CABINET, X890114).

PROPOSED ITS LABELS LEGEND

(E)	EXISTING TO REMAIN
(I)	ITEM TO BE INSTALLED BY CONTRACT 62R26
(BY 62R28)	ITEM TO BE CONSTRUCTED BY CONTRACT 62R28



USER NAME	dmeier
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PLOT DATE	= 5/31/2024

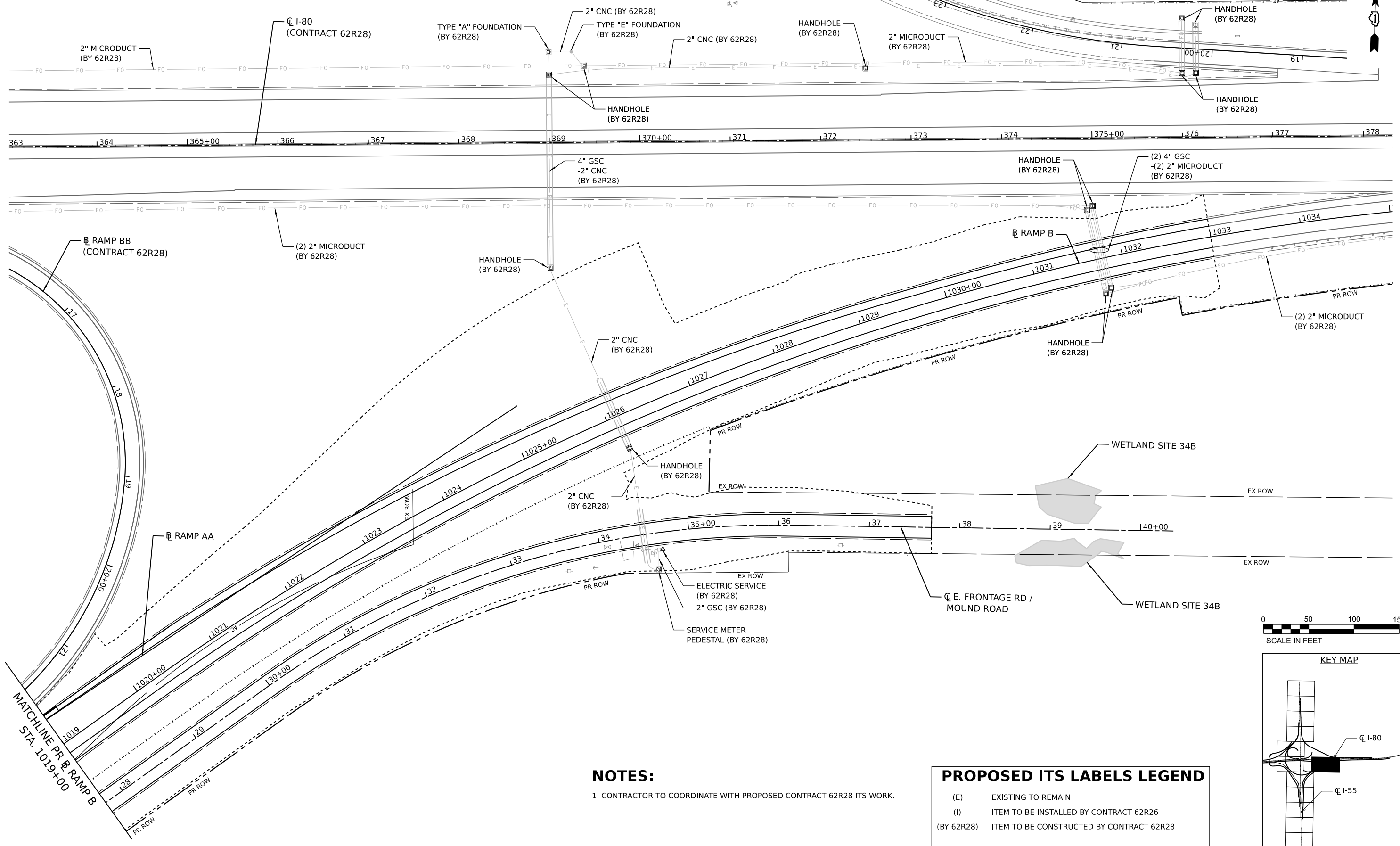
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DATE	- 6/4/2024

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REVISED	-

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

ITS PLAN	
SCALE: 1" = 50'	SHEET 13 OF 24 SHEETS STA. 1042+00 TO STA. 1049+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 21 STRUCTURE 5	WILL	525	339
CONTRACT NO. 62R26				
ILLINOIS FED. AID PROJECT				

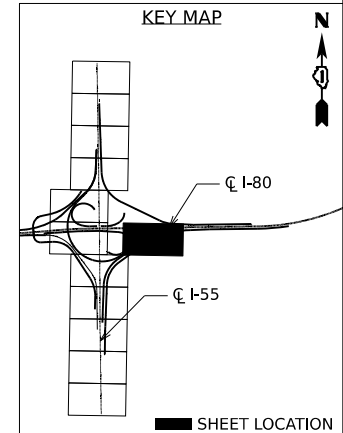
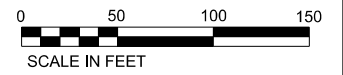


NOTES:

- 1. CONTRACTOR TO COORDINATE WITH PROPOSED CONTRACT 62R28 ITS WORK.

PROPOSED ITS LABELS LEGEND

(E)	EXISTING TO REMAIN
(I)	ITEM TO BE INSTALLED BY CONTRACT 62R28
(BY 62R28)	ITEM TO BE CONSTRUCTED BY CONTRACT 62R28



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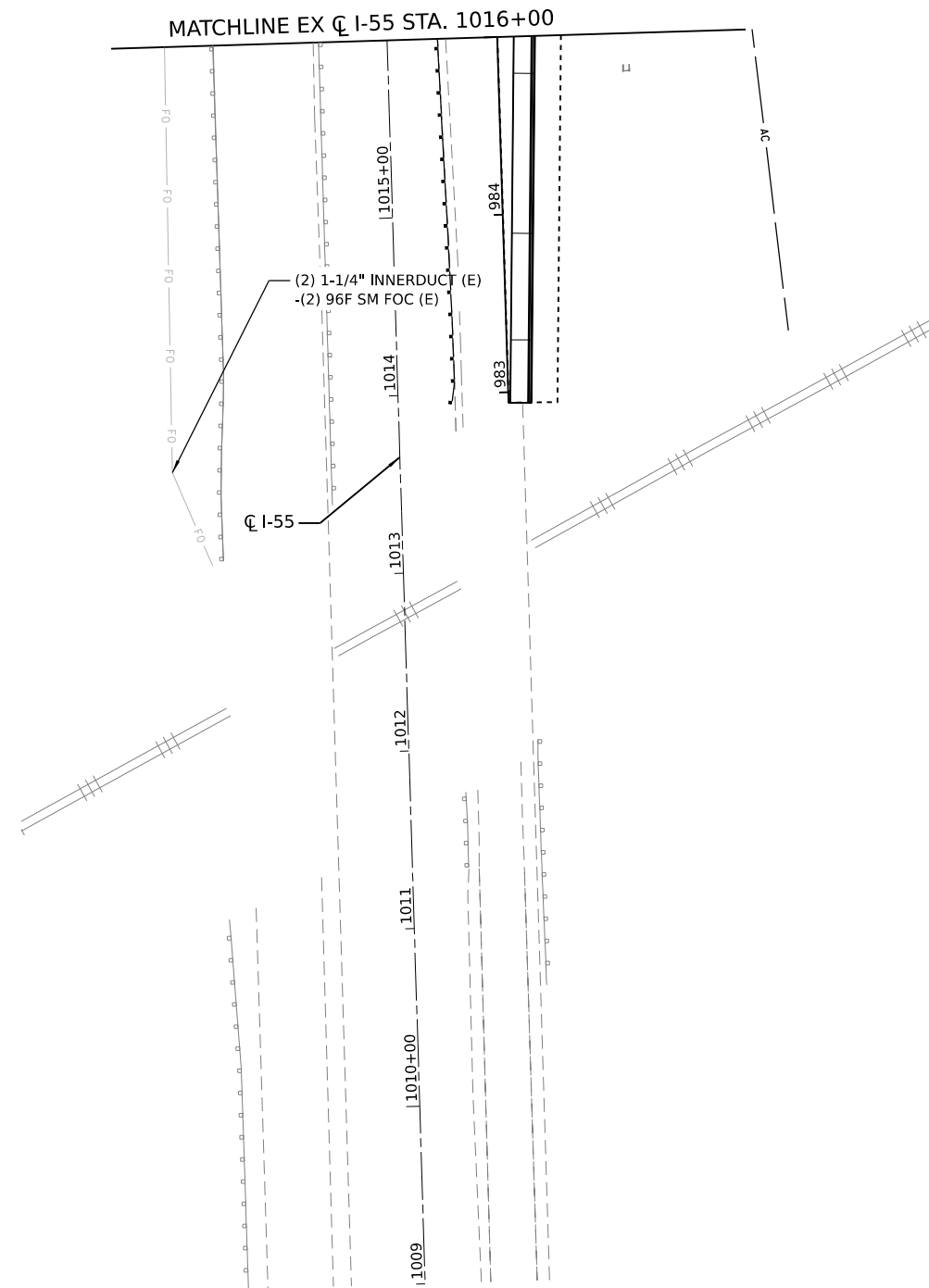
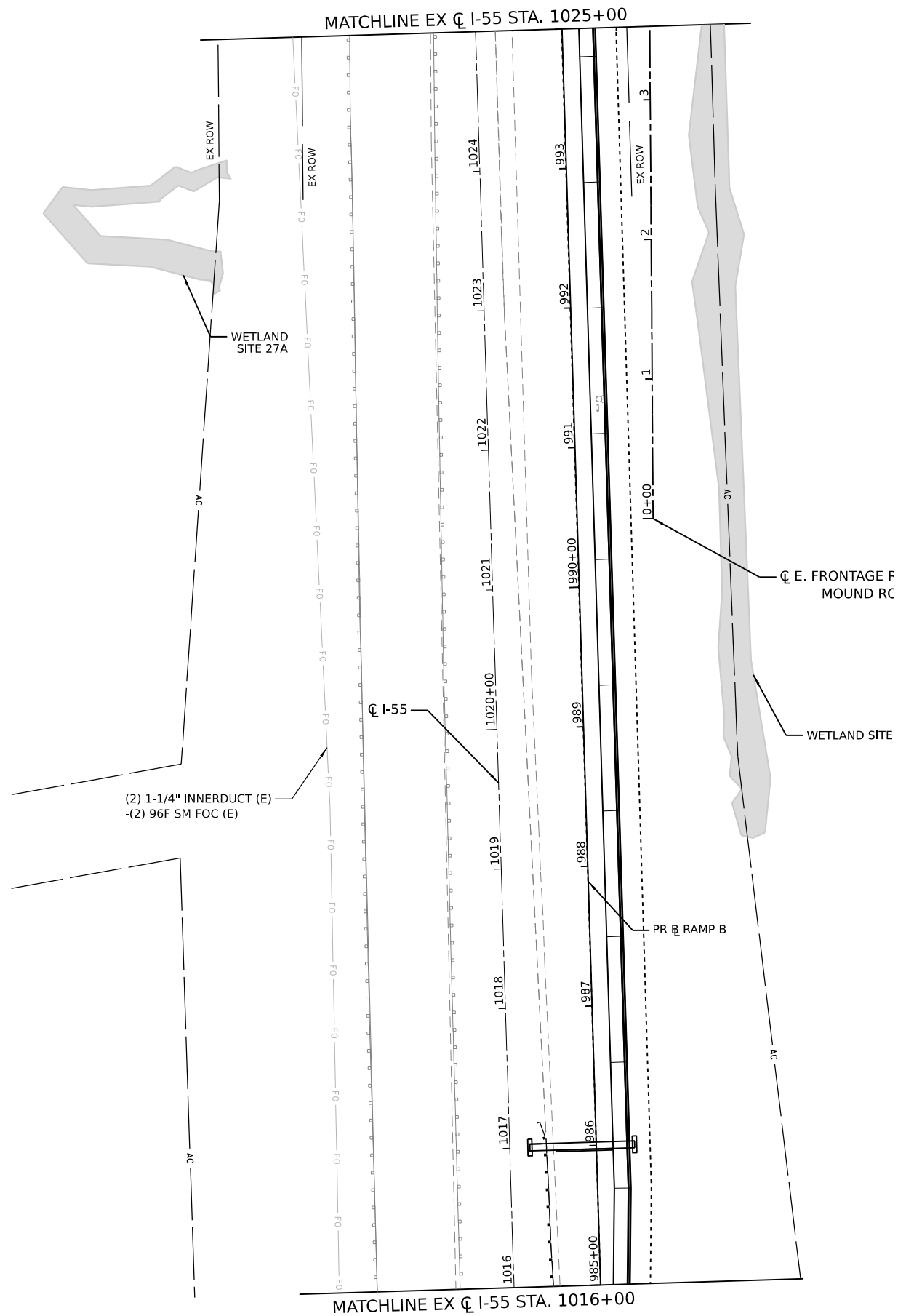
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PLOT DATE	= 5/31/2024	DATE	= 6/4/2024	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ITS PLAN
 SCALE: 1" = 50' SHEET 14 OF 24 SHEETS STA. 1019+00 TO STA. 1035+00

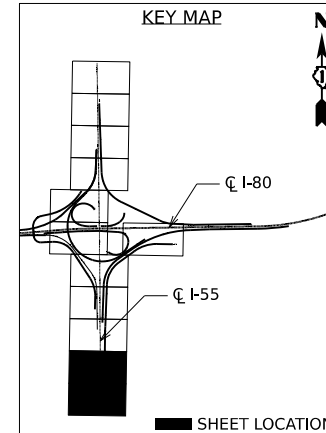
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I-80	FAI 80 21 STRUCTURE 5	WILL	525	340
CONTRACT NO. 62R26			ILLINOIS FED. AID PROJECT	

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PROPOSED ITS LABELS LEGEND

(E)	EXISTING TO REMAIN
(I)	ITEM TO BE INSTALLED BY CONTRACT 62R28
(BY 62R28)	ITEM TO BE CONSTRUCTED BY CONTRACT 62R28



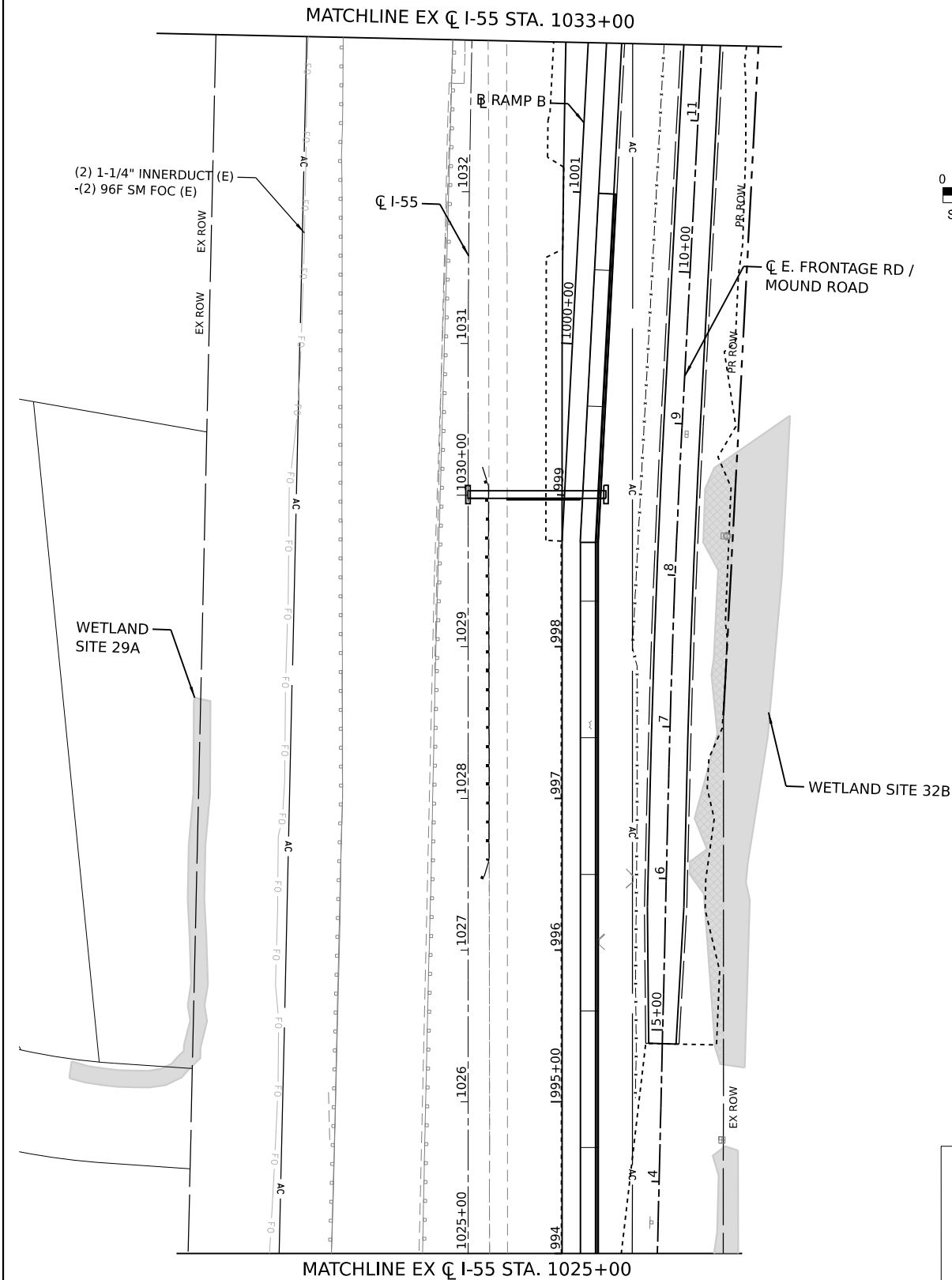
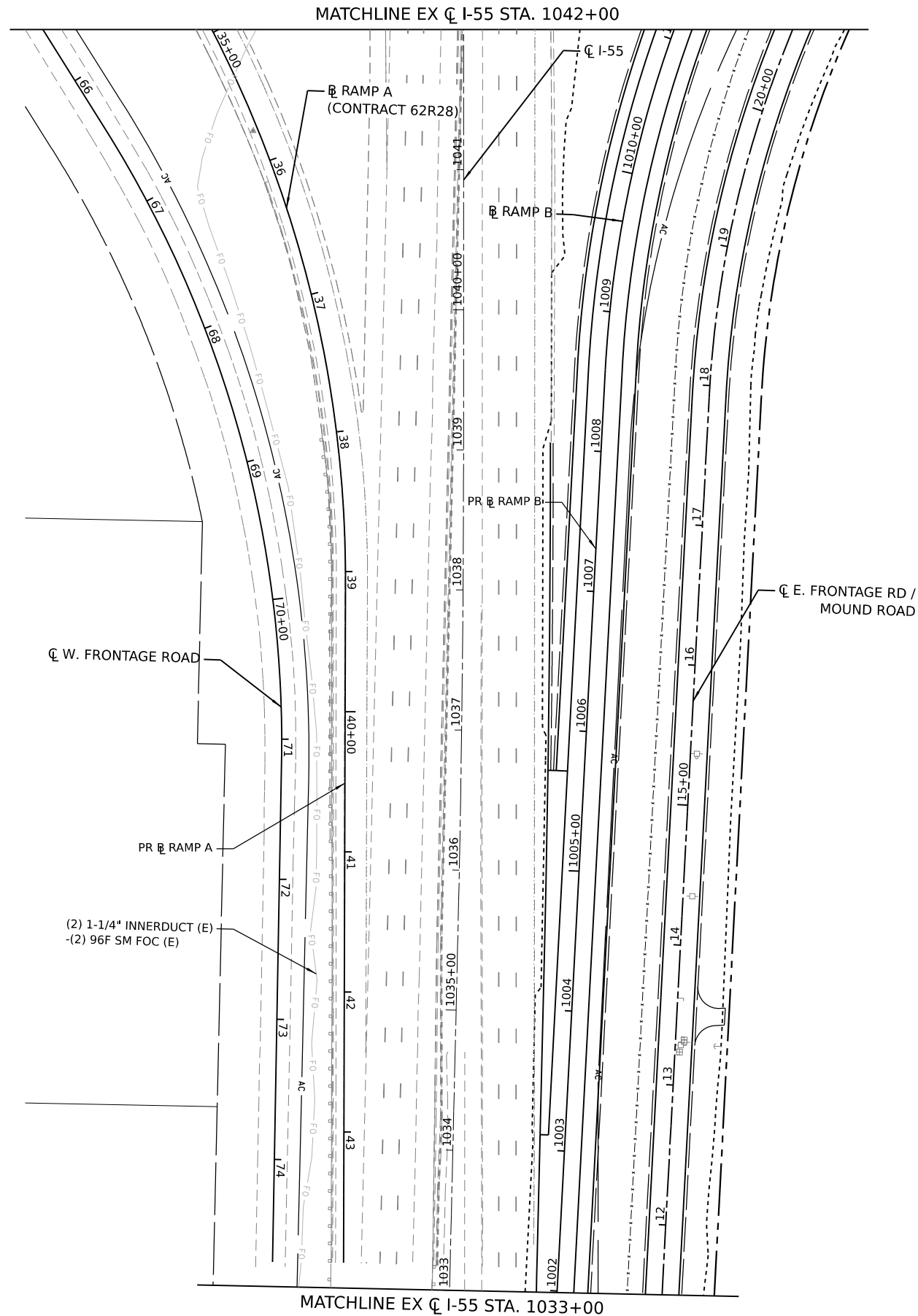
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DRAWN	- DJM	REVISIONS	-	REVISED	-
PLOT SCALE	= 100,000 * / in.	CHECKED	- REL	REVISED	-
PLOT DATE	= 5/31/2024	DATE	= 6/4/2024	REVISED	-

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SCALE: 1" = 50'		SHEET 15 OF 24 SHEETS		STA. 1009+00 TO STA. 1025+00	
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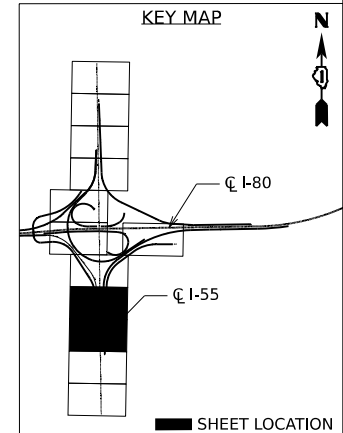
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I-80	FAI 80 21 STRUCTURE 5	WILL	525	341
CONTRACT NO. 62R26				
ILLINOIS FED. AID PROJECT				

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PROPOSED ITS LABELS LEGEND

(E)	EXISTING TO REMAIN
(I)	ITEM TO BE INSTALLED BY CONTRACT 62R26
(BY 62R28)	ITEM TO BE CONSTRUCTED BY CONTRACT 62R28



USER NAME	dmeier	DESIGNED	- DJM	REVISED	-
DRAWN	- DJM	REVISIONS	-		
PLOT SCALE	= 100.000' / in.	CHECKED	- REL	REVISED	-
PLOT DATE	= 5/31/2024	DATE	- 6/4/2024	REVISED	-

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

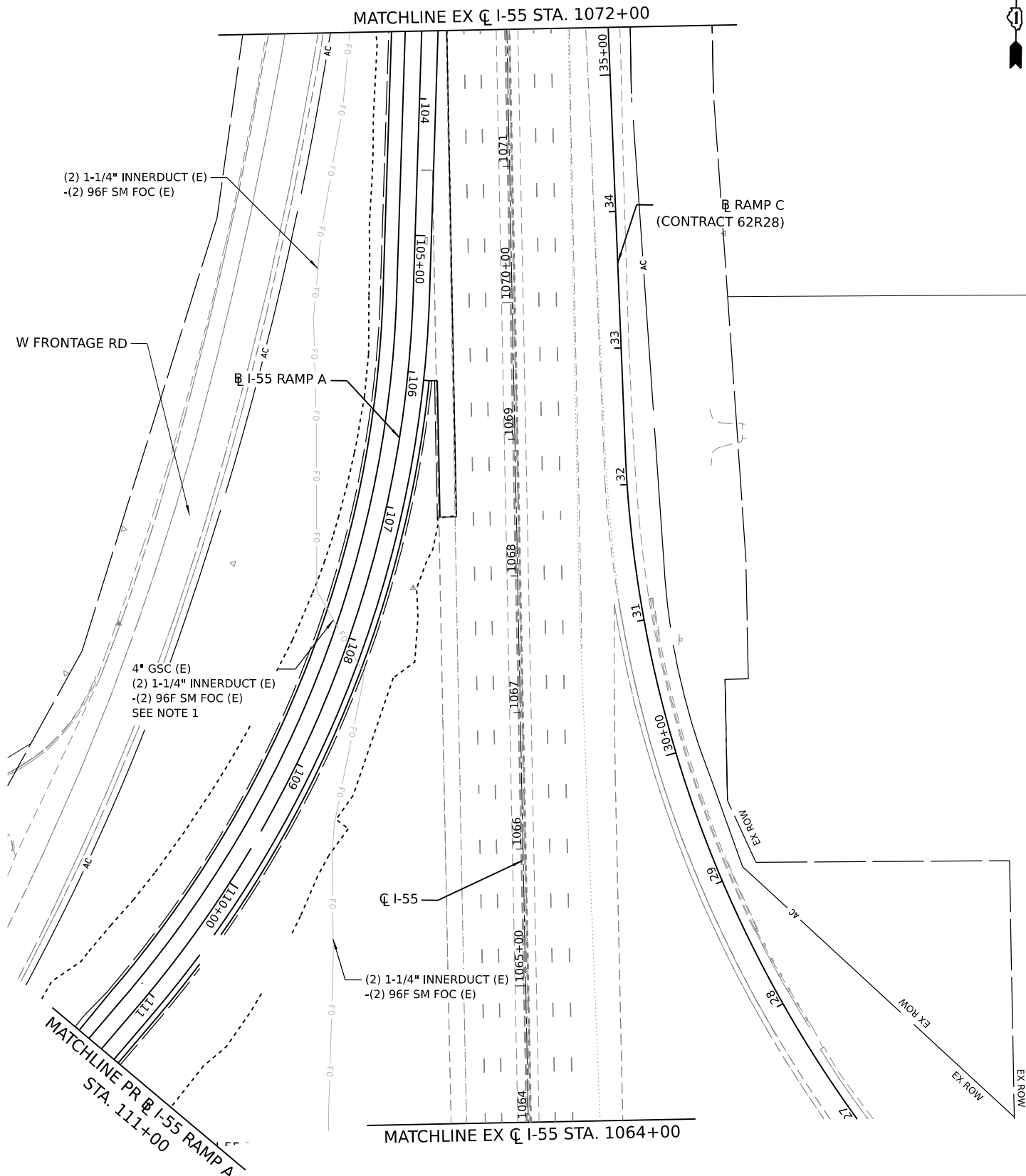
ITS PLAN

SCALE: 1" = 50'

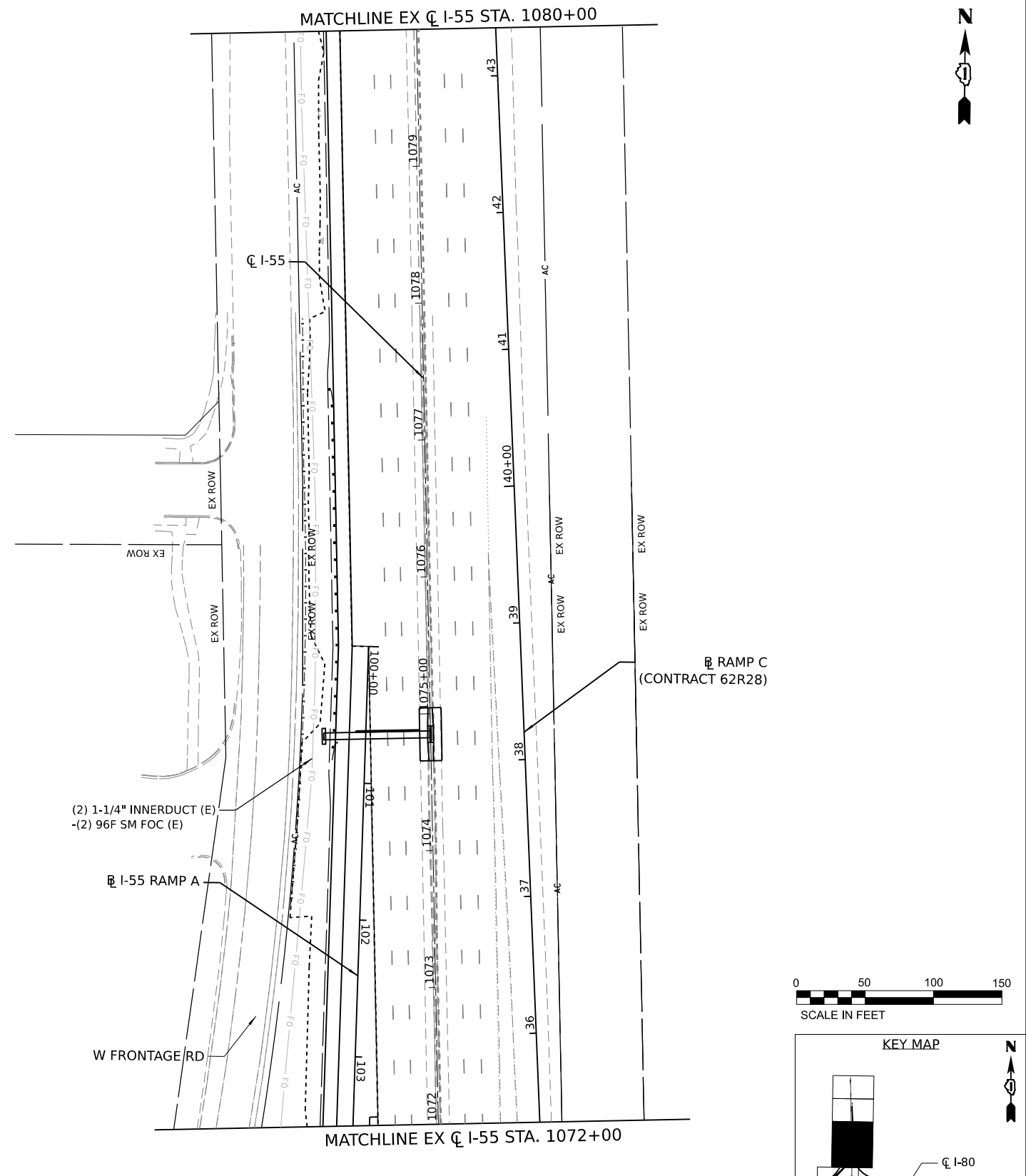
SHEET 16 OF 24 SHEETS STA. 1025+00 TO STA. 1042+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 21 STRUCTURE 5	WILL	525	342
CONTRACT NO. 62R26				
ILLINOIS FED. AID PROJECT				

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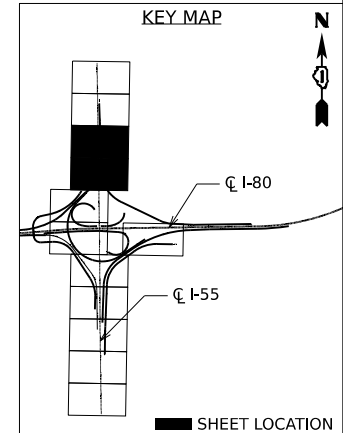
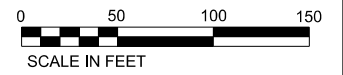


NOTES:
 1. EXISTING FIBER OPTIC CABLE TO BE PROTECTED IN PLACE DURING 62R26 CONSTRUCTION AS PART OF THE "MAINTAINING ITS DURING CONSTRUCTION" PAY ITEM.



PROPOSED ITS LABELS LEGEND

(E) EXISTING TO REMAIN
 (I) ITEM TO BE INSTALLED BY CONTRACT 62R26
 (BY 62R28) ITEM TO BE CONSTRUCTED BY CONTRACT 62R28



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 100 S. Wacker Drive Suite 400
 Chicago, Illinois 60606

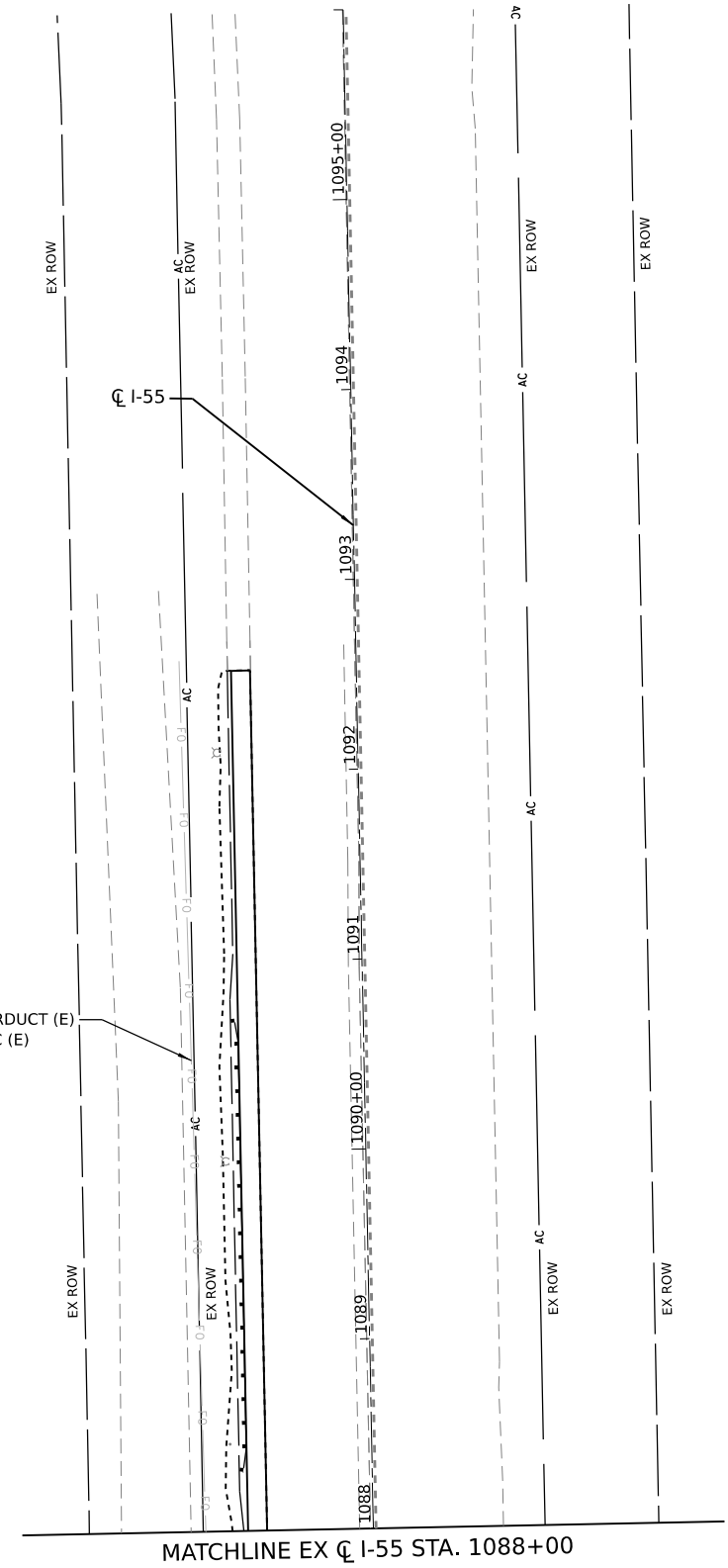
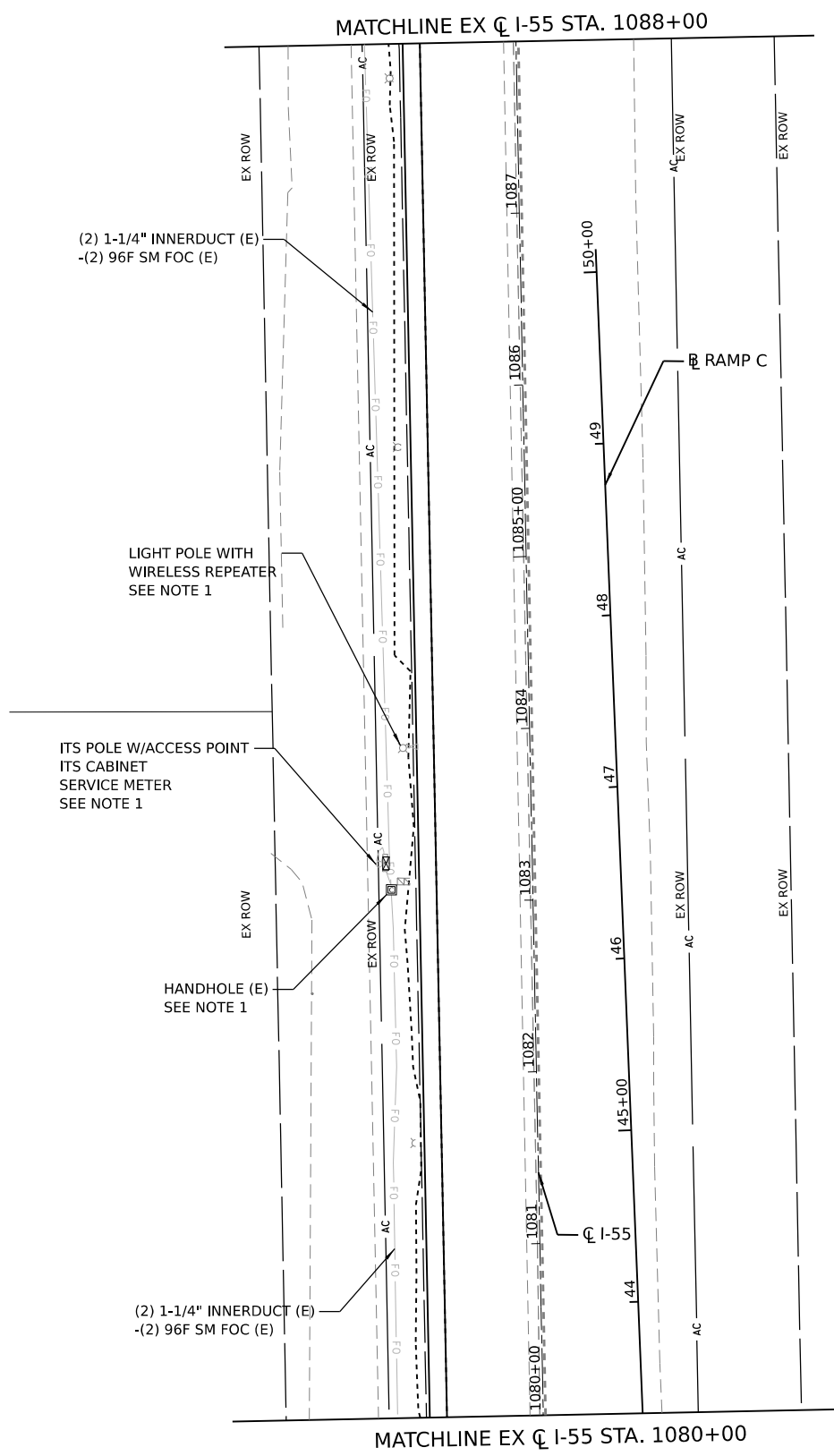
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DRAWN	- DJM	REVISIONS	-		
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PLOT DATE	= 5/31/2024	DATE	- 6/4/2024	REVISED	-

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

ITS PLAN

SCALE: 1" = 50' SHEET 17 OF 24 SHEETS STA. 1064+00 TO STA. 1080+00

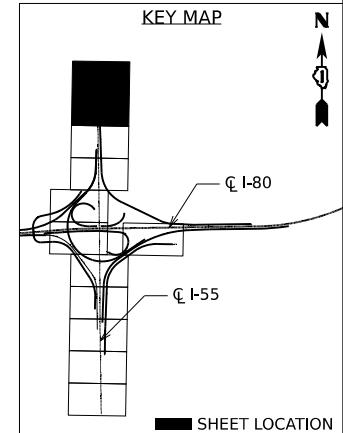
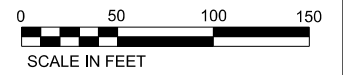
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 21 STRUCTURE 5	WILL	525	343
CONTRACT NO. 62R26				
ILLINOIS FED. AID PROJECT				



NOTES:
 1. PROTECT AND MAINTAIN IN PLACE DURING 62R26 CONSTRUCTION AS PART OF THE "MAINTAINING ITS DURING CONSTRUCTION" PAY ITEM.

PROPOSED ITS LABELS LEGEND

(E)	EXISTING TO REMAIN
(I)	ITEM TO BE INSTALLED BY CONTRACT 62R26 (BY 62R28)
(BY 62R28)	ITEM TO BE CONSTRUCTED BY CONTRACT 62R28



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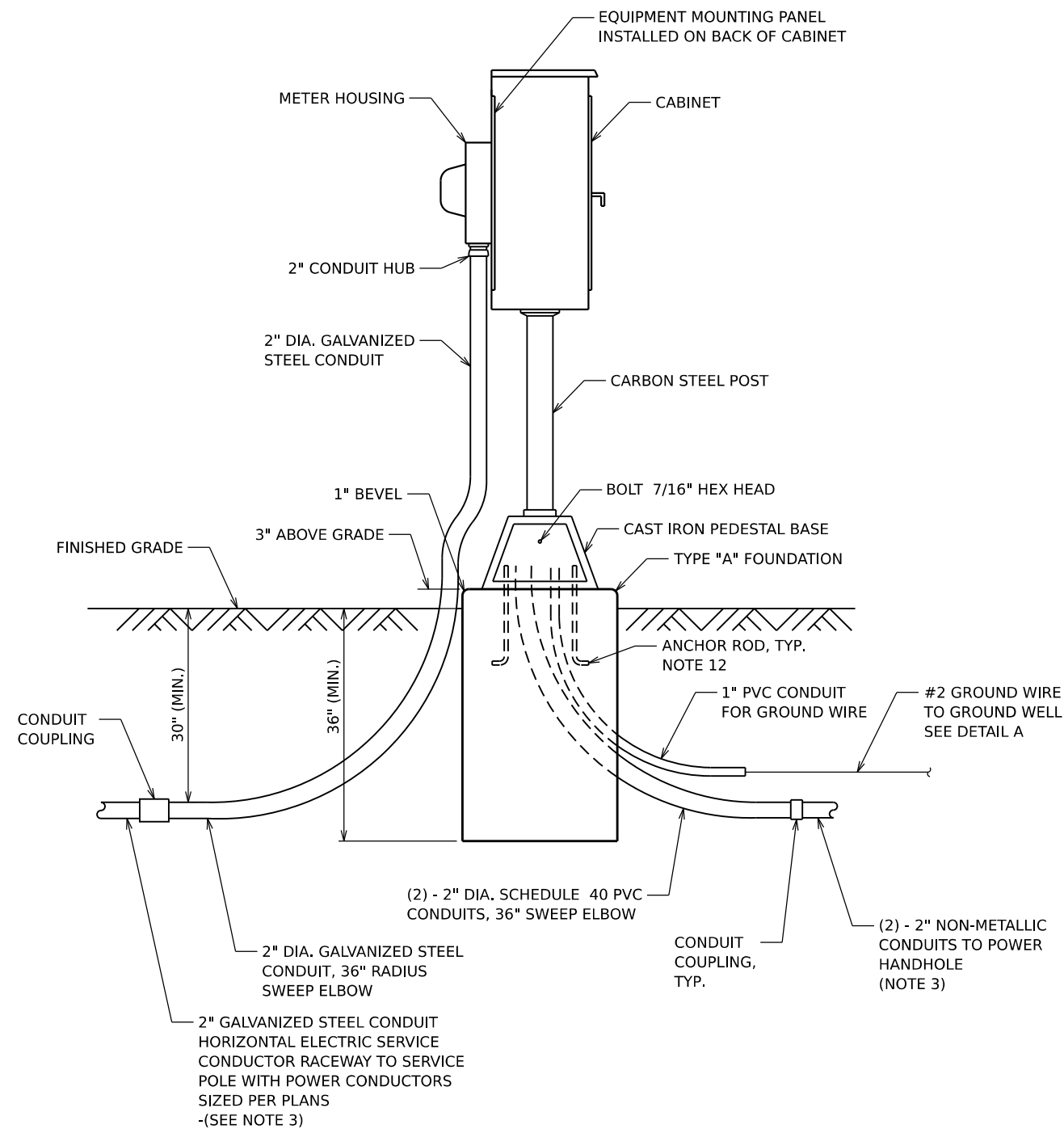
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PLOT DATE	= 5/31/2024	DATE	- 6/4/2024	REVISED	-

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

ITS PLAN	
SCALE: 1" = 50'	SHEET 18 OF 24 SHEETS STA. 1080+00 TO STA. 1096+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 21 STRUCTURE 5	WILL	525	344
CONTRACT NO. 62R26				
ILLINOIS FED. AID PROJECT				

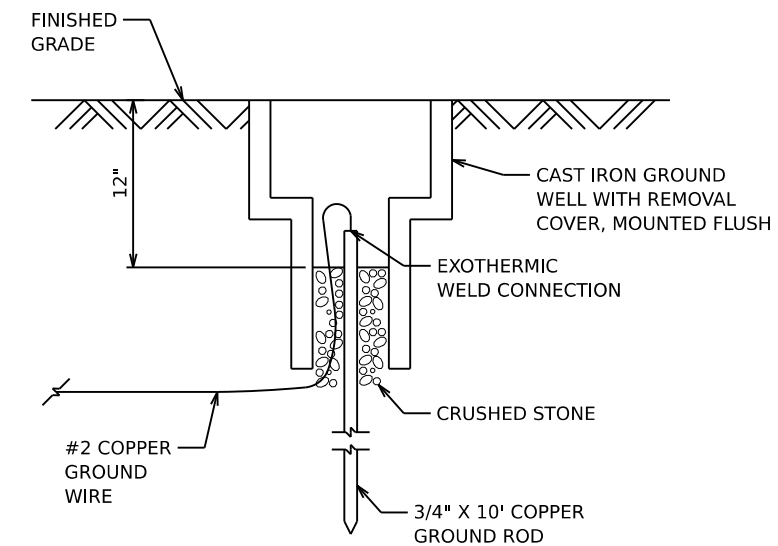
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SERVICE PEDESTAL WITH METER

NOTES

1. SERVICE VOLTAGE SHALL BE AS INDICATED ELSEWHERE IN THE DRAWINGS.
2. UNLESS OTHERWISE INDICATED, ALL ITEMS AND WORK SHOWN SHALL BE INCLUDED AND PAID AS PART OF THE ELECTRIC UTILITY SERVICE INSTALLATION PAY ITEM.
3. THE HORIZONTAL ELECTRIC SERVICE CONDUCTOR RACEWAY/CONDUCTORS AND NON-METALLIC CONDUITS TO POWER HANDHOLE SHALL BE MEASURED SEPARATELY FOR PAYMENT.
4. CABINETS, CABINET POSTS AND CABINET PEDESTALS SHALL BE PRIMED AND PAINTED. THE EXTERIOR SHALL HAVE TWO EPOXY FINISH COATS OF ANSI-61 GRAY. THE INTERIOR SHALL BE PAINTED WHITE.
5. METER HOUSING SHALL BE MOUNTED TO BACK WALL OF CABINET. PROVIDE A GATE IN ROW FENCE TO ALLOW UTILITY ACCESS TO READ THE METER.
6. CABLES FROM METER HOUSING SHALL PASS THROUGH BACK WALL OF CABINET.
7. METER HOUSING SHALL BE AS REQUIRED BY THE UTILITY.
8. THE CABINET SHALL BE 36"H X 20"W X 15"D, FABRICATED FROM ALUMINUM WITH A MINIMUM THICKNESS OF 0.125", RATED NEMA TYPE 3R AND HAVE A MOUNTING BACK PLATE.
9. THE CABINET DOOR SHALL HAVE A CONTINUOUS HINGE THAT IS BOLTED TO THE CABINET AND DOOR WITH 1/4-20 STAINLESS STEEL CARRIAGE BOLTS AND NY-LOCK NUTS. THE HINGE SHALL BE INSTALLED ON THE RIGHT SIDE WHEN FACING THE CABINET AND BE MADE OF STAINLESS STEEL WITH A 0.25 INCH DIAMETER STAINLESS STEEL HINGE PIN. THE HINGE PIN SHALL BE CAPPED TOP AND BOTTOM BY WELD TO RENDER IT TAMPER-PROOF. THE CABINET SHALL HAVE A GASKET THAT FORMS A WEATHER-TIGHT SEAL BETWEEN THE CABINET AND DOOR. THE DOOR LATCHING MECHANISM SHALL BE THE 3-POINT DRAW ROLLER TYPE. WHEN THE DOOR IS CLOSED AND LATCHED, IT WILL BE LOCKED. THE LATCHING HANDLE SHALL BE FABRICATED FROM A 0.75" STAINLESS STEEL ROUND BAR AND SHALL HAVE A PROVISION FOR PADLOCKING IN THE CLOSED POSITION.
10. THE ENCLOSURE SHALL BE EQUIPPED WITH TWO ADJUSTABLE "C" MOUNTING CHANNELS WELDED ON BOTH SIDE WALLS AND BACK WALL OF THE ENCLOSURE, ALLOWING VERSATILE POSITIONING OF SHELVES OR PANELS. MOUNTING CHANNELS SHALL BE FACTORY PAINTED SAME COLOR AS INTERIOR OF CABINET.
11. CABINET DOOR SHALL NOT HAVE COMPARTMENT DOORS OR LOUVERS. INTERIOR OF CABINET DOOR SHALL HAVE A PLASTIC POCKET FOR WIRING SCHEMATIC.
12. CONTRACTOR MUST COORDINATE WITH PEDESTAL BASE SUPPLIER AND FURNISH THE NECESSARY ANCHOR RODS.
13. THE ELECTRIC SERVICE EQUIPMENT ASSEMBLY SHALL BE ASSEMBLED BY A UL 508A INDUSTRIAL CONTROL PANEL FABRICATOR. THE PANEL ASSEMBLY SHALL BE UL LABELED AND SUITABLE FOR USE AS SERVICE EQUIPMENT.
14. ALL EQUIPMENT SHALL BE GROUNDED AND BONDED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE AND THE NATIONAL ELECTRICAL SAFETY CODE.
15. PLANS AND DETAILS INDICATE THE GENERAL NATURE AND REQUIREMENTS. THEY DO NOT SHOW EVERY ACCESSORY AND ATTACHMENT, AND THEY DO NOT RELIEVE THE CONTRACTOR OF THE REQUIREMENTS OF THE SPECIFICATIONS AND SPECIAL PROVISIONS TO ASCERTAIN UTILITY REQUIREMENTS AND TO COORDINATE ACCORDINGLY. FURNISHING ALL ITEMS AND WORK NOT PROVIDED BY THE UTILITY, BUT NECESSARY FOR A COMPLETE SERVICE INSTALLATION IS REQUIRED AND SHALL BE INCLUDED IN THE ELECTRIC UTILITY SERVICE INSTALLATION PAY ITEM.



**DETAIL A
GROUND WELL DETAIL**



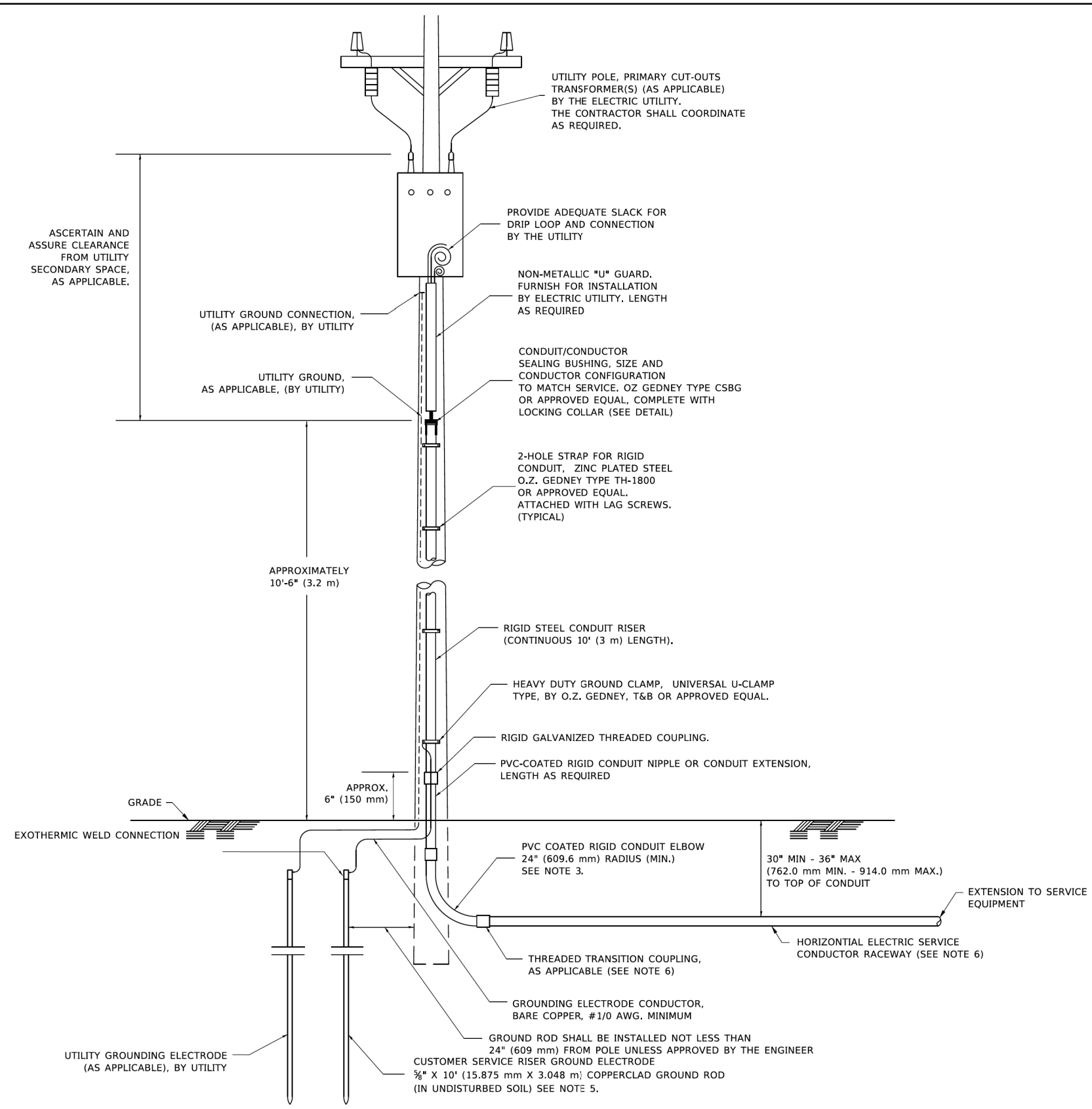
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PLOT DATE	= 5/31/2024				

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SERVICE METER PEDESTAL DETAIL

SCALE: N.T.S. SHEET 19 OF 24 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 21 STRUCTURE 5	WILL	525	345
CONTRACT NO. 62R26				
ILLINOIS FED. AID PROJECT				

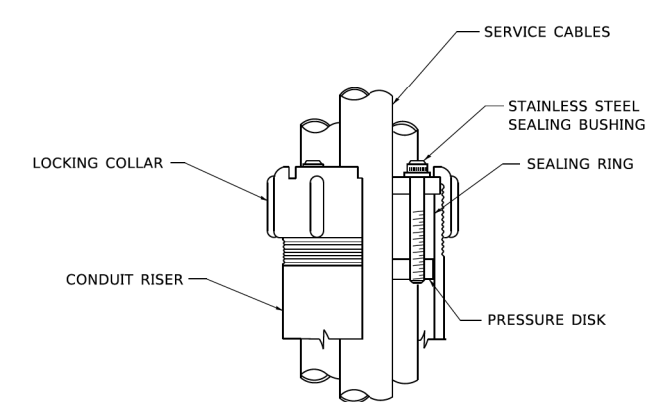


APPLICATION

THIS DETAIL APPLIES FOR LOW VOLTAGE ELECTRIC SERVICE (660 V OR LESS) FROM AN OVERHEAD UTILITY SUPPLY TO SEPERATLY-MOUNTED SERVICE EQUIPMENT.

NOTES

- SERVICE VOLTAGE SHALL BE AS INDICATED ELSEWHERE IN THE DRAWINGS.
- UNLESS OTHERWISE INDICATED, ITEMS AND WORK SHALL BE INCLUDED AND PAID AS PART OF THE ELECTRIC UTILITY SERVICE INSTALLATION PAY ITEM.
- CONDUIT AND CONNECTOR DIAMETER SHALL MATCH THE DIAMETER OF THE SERVICE CONDUCTOR RACEWAY AS INDICATED ON THE PLANS.
- PVC COATED RACEWAYS AND ACCESSORIES SHALL BE CAREFULLY INSTALLED WITH MFR RECOMMENDED TOOLS AND PROCEDURES TO AVOID DAMAGE. ANY DAMAGE SHALL BE REPAIRED WITH COMPATIBLE PVC TOUCH-UP MATERIAL TO THE SATISFACTION OF THE ENGINEER OR THE DAMAGED MATERIAL SHALL BE REPLACED AT NO ADDITIONAL COST.
- THE CONTRACTOR SHALL OBTAIN INSPECTION AND APPROVAL BY THE ENGINEER OF SERVICE RISER GROUND ELECTRODE, RISER ELBOW, NIPPLE AND CONNECTION TO SERVICE CONDUCTOR RACEWAY EXTENSION BEFORE BACKFILL AND SHALL ALSO OBTAIN INSPECTION OF SERVICE RISER AND SEALING BUSHING BEFORE UTILITY "U" GUARD INSTALLATION AND SERVICE CONNECTION.
- THE HORIZONTAL ELECTRIC SERVICE CONDUCTOR RACEWAY SHALL BE AS INDICATED AND SHALL BE MEASURED SEPARATELY FOR PAYMENT. WHEN THE RACEWAY IS PVC-COATED RIGID GALVANIZED STEEL, THE COUPLING SHALL BE THE SAME. WHEN THE RACEWAY IS PVC CONDUIT (IN CONCRETE), THE COUPLING SHALL BE A METALIC TO NON METALIC ADAPTER. WHEN THE RACEWAY IS ENCASED IN CONCRETE, THE CONCRETE SHALL EXTEND TO COVER THE COUPLING.
- PLANS AND DETAILS INDICATE THE GENERAL NATURE AND REQUIREMENTS. THEY DO NOT SHOW EVERY ACCESSORY AND ATTACHMENT, AND THEY DO NOT RELIEVE THE CONTRACTOR OF THE REQUIREMENTS OF THE SPECIFICATIONS AND SPECIAL PROVISIONS TO ASCERTAIN UTILITY REQUIREMENTS AND TO COORDINATE ACCORDINGLY, FURNISHING ALL ITEMS AND WORK NOT PROVIDED BY THE UTILITY, BUT NECESSARY FOR A COMPLETE SERVICE INSTALLATION IS REQUIRED AND SHALL BE INCLUDED IN THE ELECTRIC UTILITY SERVICE INSTALLATION PAY ITEM.



SEALING BUSHING DETAIL

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PLOT DATE	= 4/19/2019	CHECKED	-	REVISED	-	MEA
		DATE	-	REVISED	-	

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ELECTRIC SERVICE INSTALLATION
AERIAL, REMOTE DISCONNECT**

SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
BE-220			CONTRACT NO.	
ILLINOIS FED. AID PROJECT				

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100 S. Wacker Drive Suite 400
Chicago, Illinois 60606

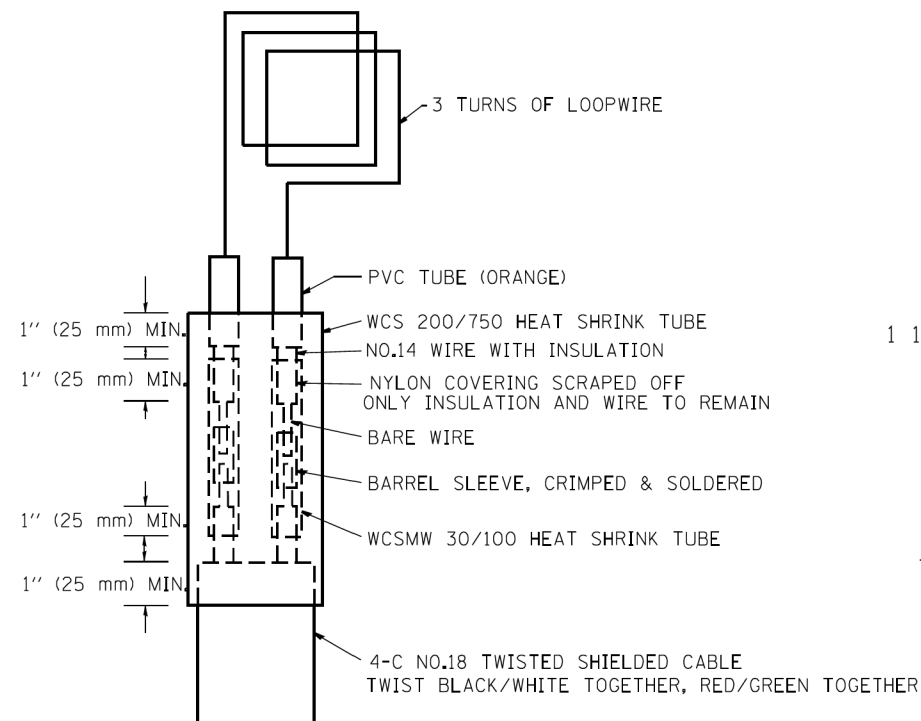
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PLOT DATE	= 5/31/2024	CHECKED	-	REVISED	-
		DATE	-	REVISED	-

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

IDOT STANDARD BE-220

SCALE: N.T.S. SHEET 21 OF 24 SHEETS STA. TO STA.

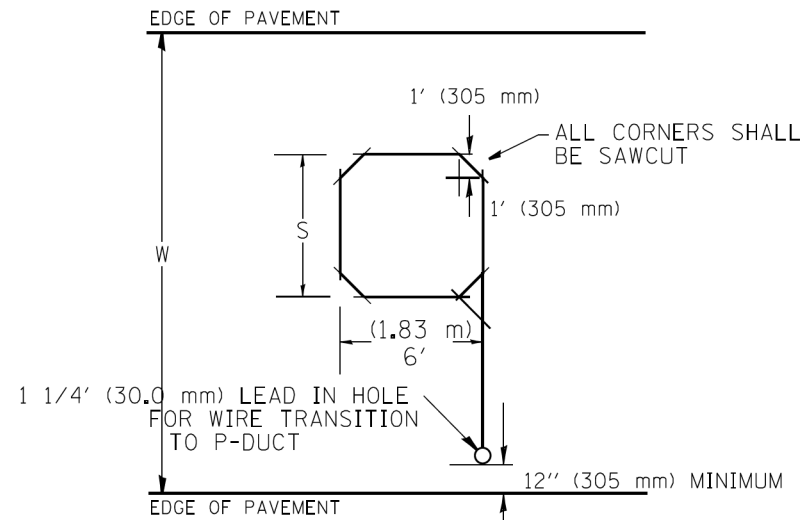
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 21 STRUCTURE 5	WILL	525	347
			CONTRACT NO. 62R26	
ILLINOIS FED. AID PROJECT				



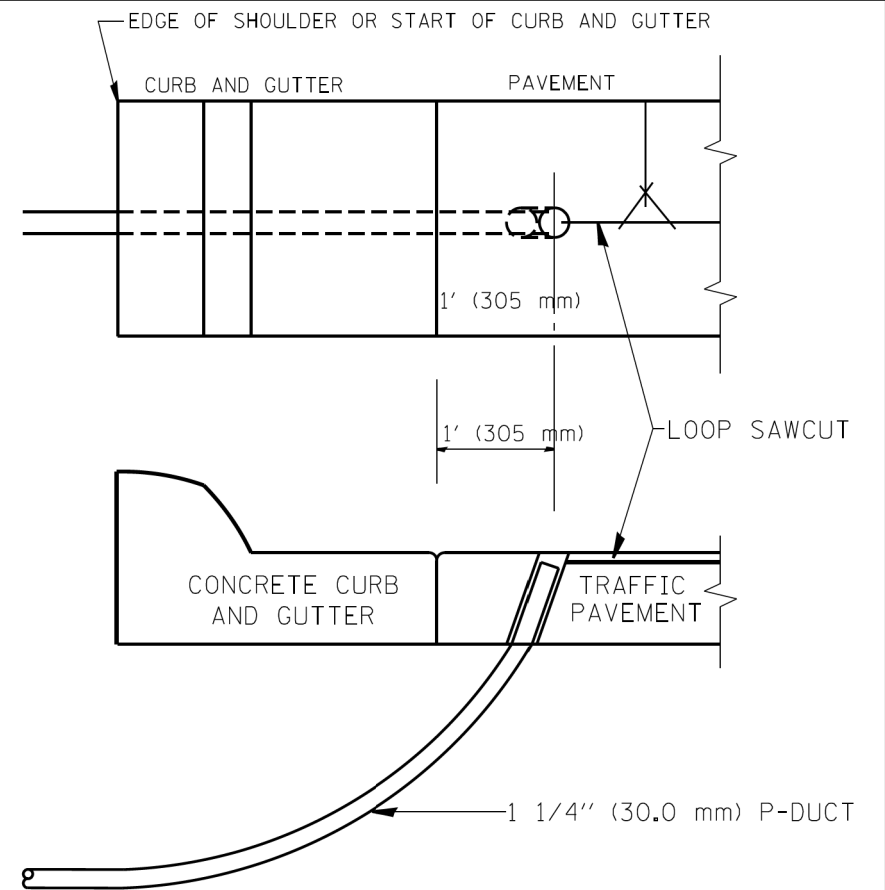
MINIMUM 1" (25 mm) HEAT SHRINK TUBING OVERLAP ON WIRE, PVC & SHIELDED CABLE TO FORM WATER TIGHT SEAL

LOOP SPLICING REQUIREMENTS

WIDTH (W)	WIDTH (S)
12' (3.7 m)	8' (2.5 m)
13' (4.0 m)	9' (2.8 m)
14' (4.3 m)	10' (3.1 m)
15' (4.6 m)	11' (3.4 m)
16' (4.9 m)	12' (3.7 m)
17' (5.2 m)	13' (4.0 m)
18' (5.5 m)	14' (4.3 m)
19' (5.8 m)	15' (4.6 m)
20' (6.1 m)	18' (4.9 m)
21' (6.4 m)	17' (5.2 m)
22' (6.7 m)	18' (5.5 m)
23' (7.0 m)	19' (5.8 m)
24' (7.3 m)	20' (6.1 m)
25' (7.6 m)	21' (6.4 m)



TYPICAL "S" FT. BY 6' (1.83 m) INDUCTION LOOP SAWCUT LAYOUT FOR RAMPS



CURB AND GUTTER LOOP LEAD-IN TRANSITION DETAIL

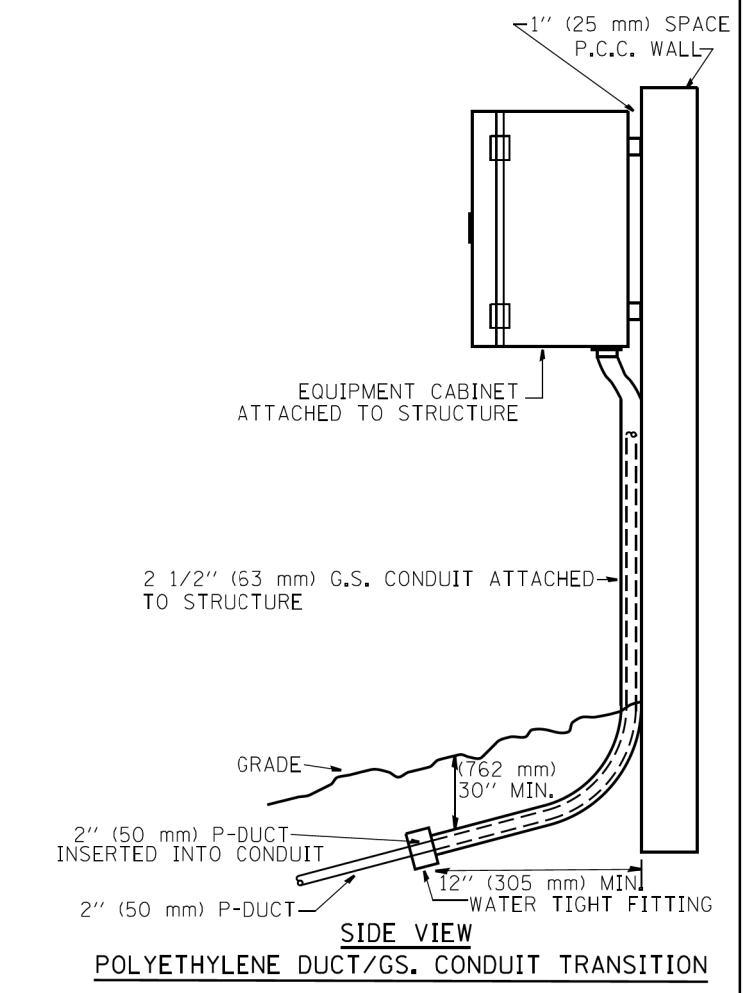
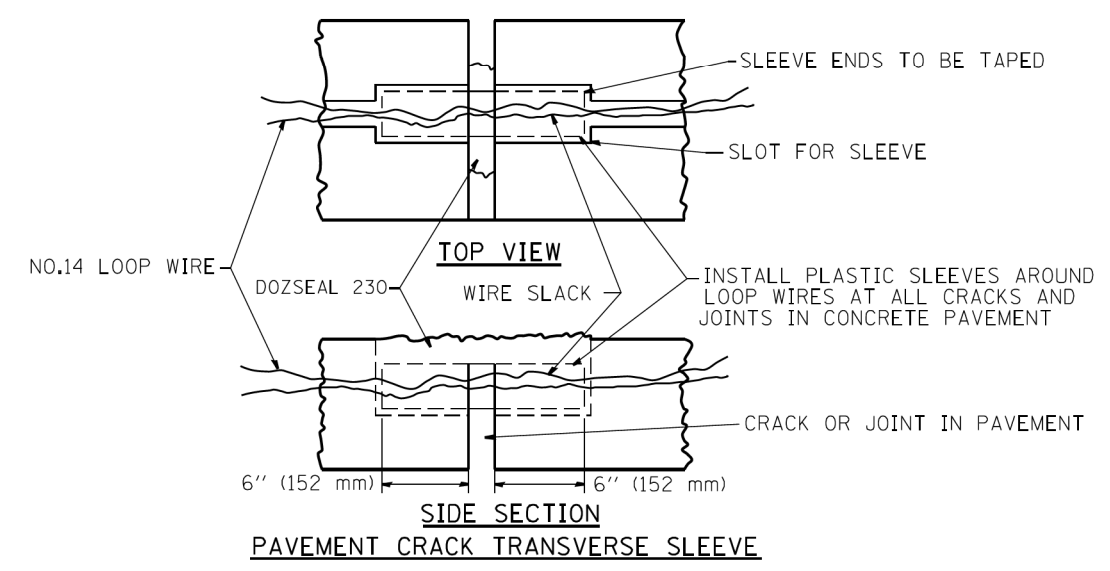
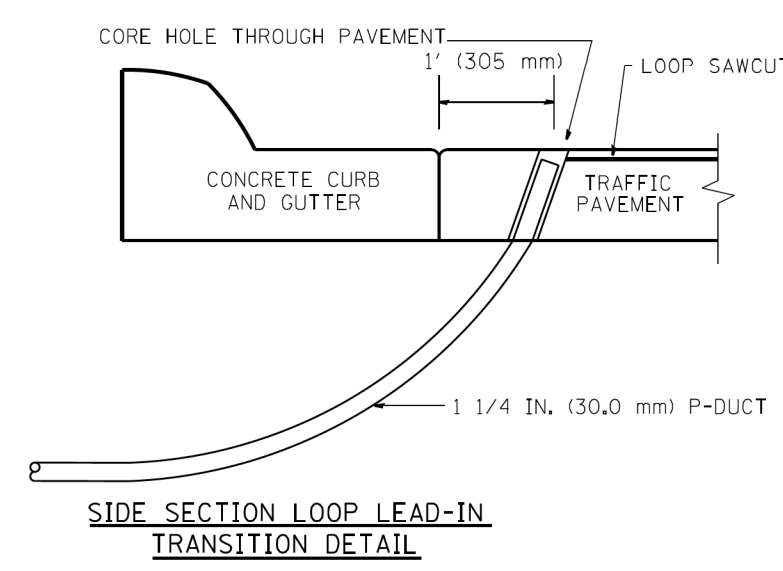
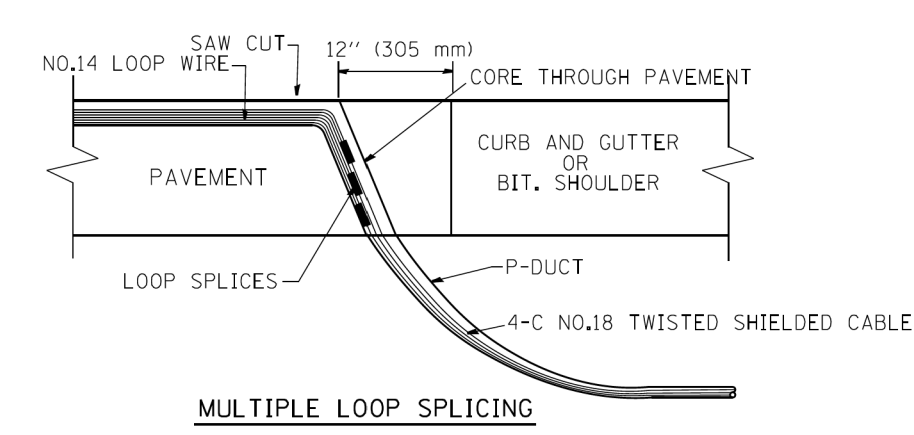
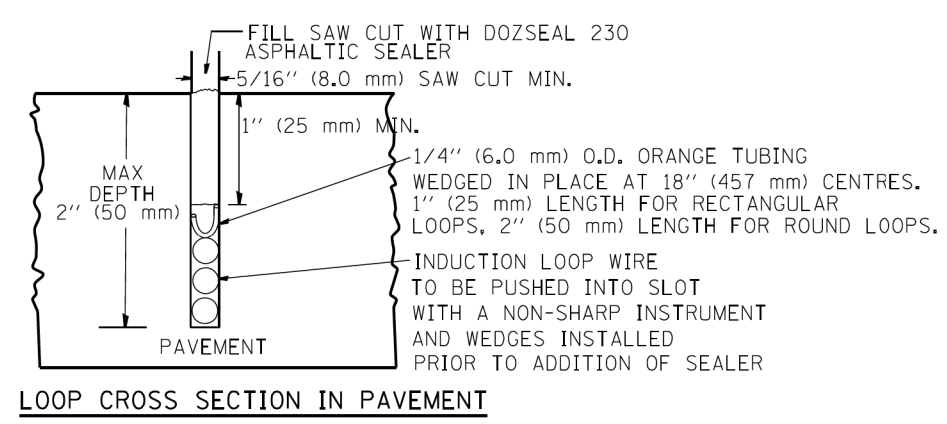
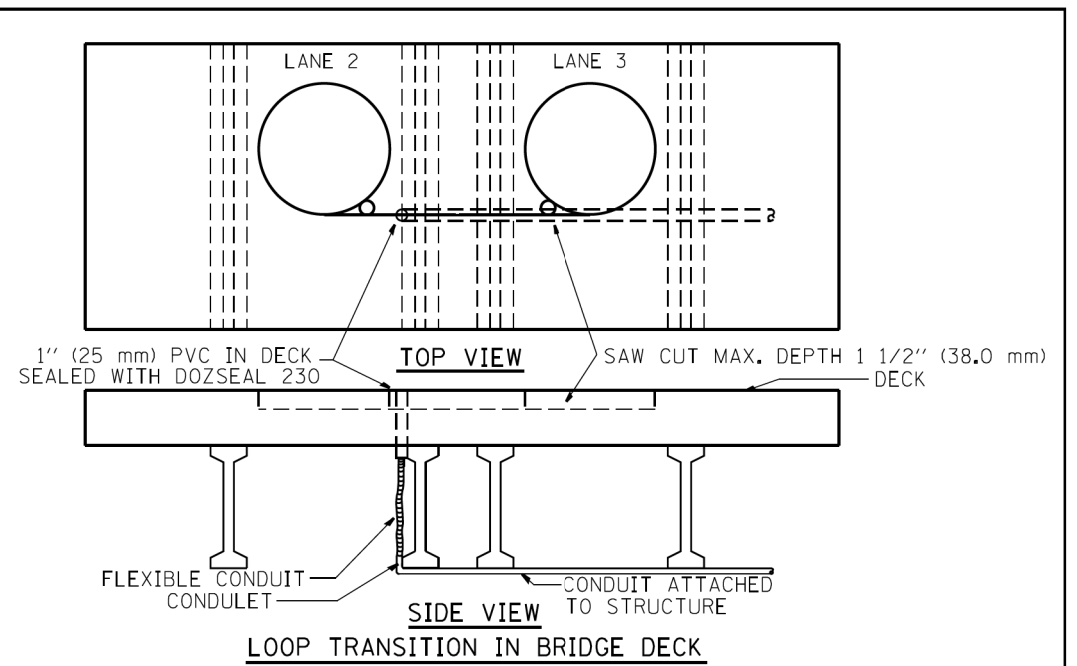
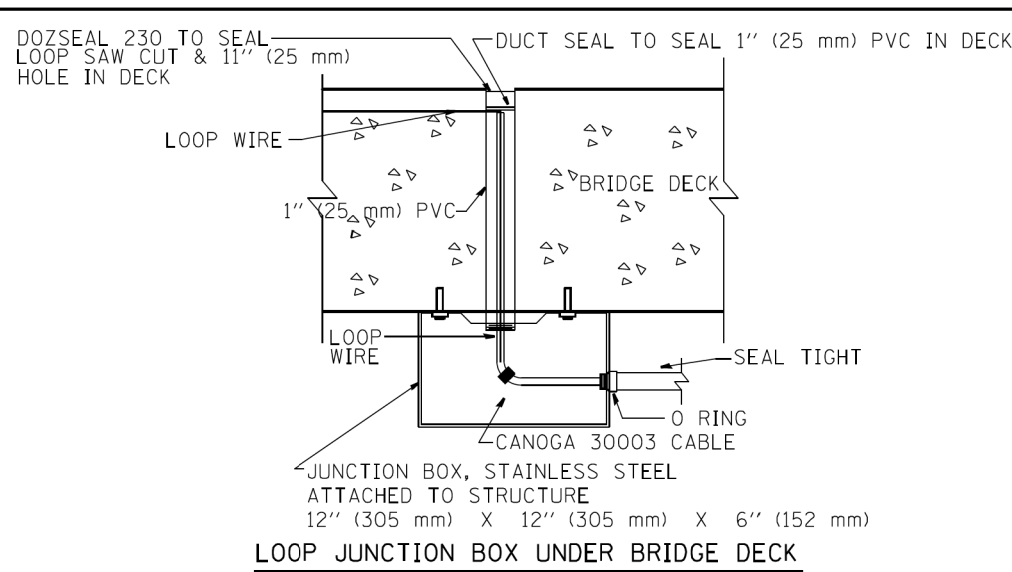
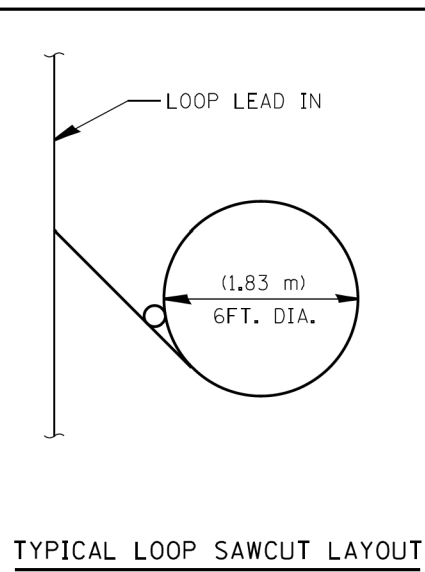
NOTES

1. EACH LOOP SHALL BE SPLICED TO A 4-C NO.18 TWISTED SHIELDED LEAD IN WHEN 150' (45 m) OR MORE FROM CABINET.
2. LOOPS SHALL BE SPLICED IN HANDHOLES ONLY, OTHERWISE WRITTEN PERMISSION SHALL BE OBTAINED FROM TSC ENGINEER.
3. LOOPS SHALL NOT BE SPLICED IN SERIES.
4. EACH LOOP LEAD IN SHALL BE IDENTIFIED AND PERMANENTLY COLOR CODED IN THE COREHOLE, HANDHOLE & CABINETS THRU WHICH THEY ENTER OR PASS AND TAGGED WITH THE CORRECT NOMENCLATURES.

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PLOT DATE = 2/7/2013	DATE - 6-22-94	REVISED - 10/96			TRAFFIC SYSTEMS CENTER (TY-1TSC-418#3)							
					INDUCTION LOOP - TSC STANDARD 418#3							

<p>100 S. Wacker Drive Suite 400 Chicago, Illinois 60606</p>	USER NAME = dmeier DESIGNED - DJM DRAWN - DJM CHECKED - REL DATE - 6/4/2024	REVISED - REVISED - REVISED - REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SCALE: N.T.S. SHEET 22 OF 24 SHEETS STA. TO STA.	F.A.I. RTE. I-80 SECTION FAI 80 21 STRUCTURE 5 COUNTY WILL TOTAL SHEETS 525 SHEET NO. 348 CONTRACT NO. 62R26 ILLINOIS FED. AID PROJECT
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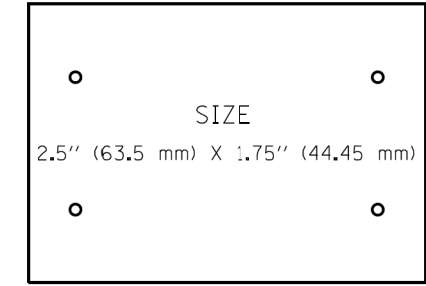
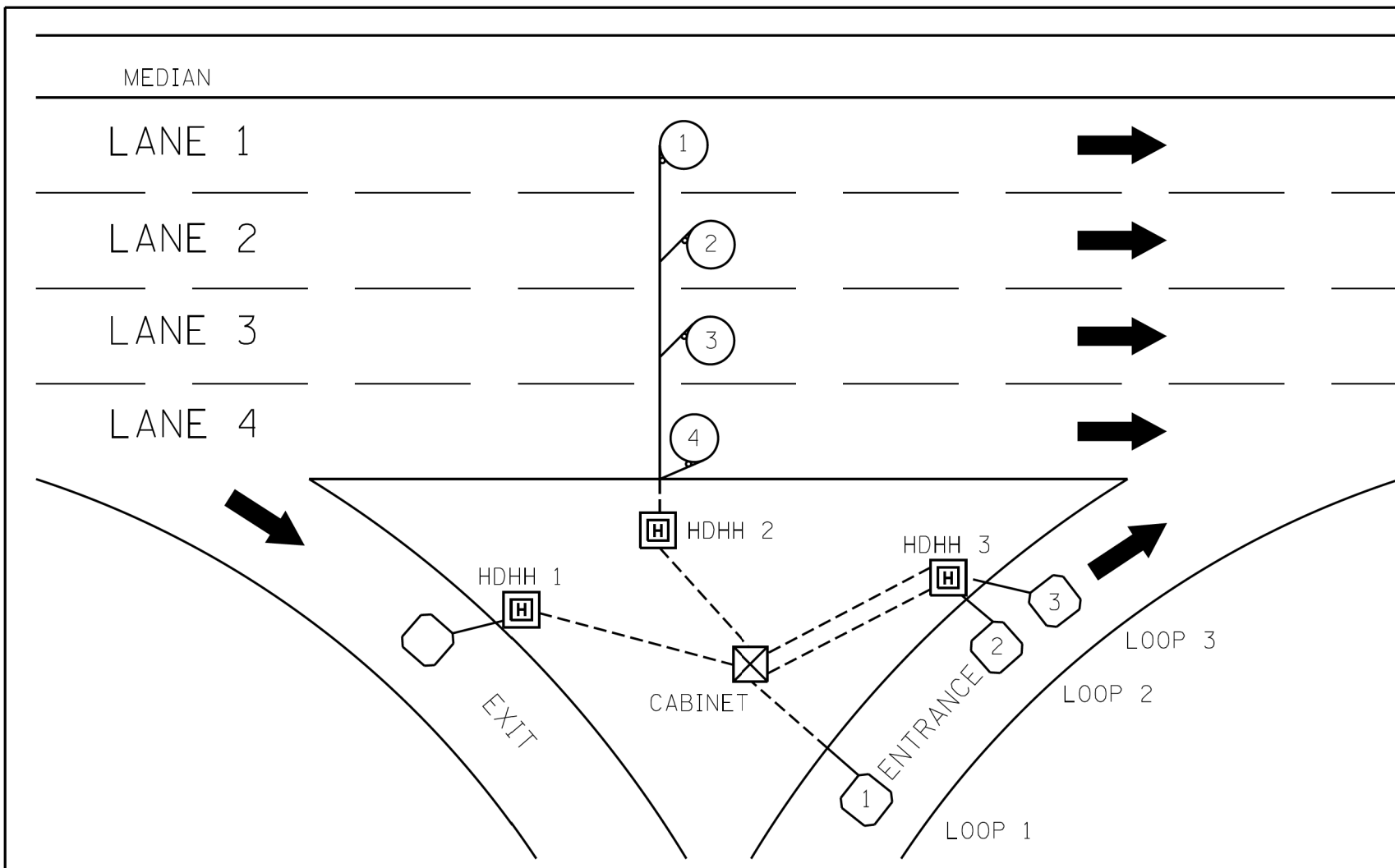


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STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION				INDUCTION LOOP - TSC STANDARD 418#4				TRAFFIC SYSTEMS CENTER (TY-1TSC-418#4)					
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PLOT SCALE = 100.000' / in.	CHECKED - REL	REVISED -						I-80	FAI 80 21 STRUCTURE 5	WILL	525	349	
PLOT DATE = 5/31/2024	DATE - 6/4/2024	REVISED -								CONTRACT NO. 62R26			

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SIZE
2.5" (63.5 mm) X 1.75" (44.45 mm)
SUGGESTED TAG
PANDUIT
#MP250W175-C
OR EQUIVALENT

LOOP ANALYZER					
LOCATION _____				DATE _____	
LOOP LOCATION LANE DIRECTION	LOOP WIRE MARKED AND CODED	LOOP SIZE	FREQ. INDUCTANCE	INSULATION	LOOP RESISTANCE

HDHH 1 EXAMPLE
IB-EB EXIT
CCW IN/
TO CABINET # _____

HDHH 2 EXAMPLE
IB (OB) LANE # ____
CCW /OUT
TO CABINET # _____

HDHH 3 EXAMPLE
IB-EB ENT.
LOOP #2
CW IN/

NOTE:
EACH LOOP WIRE SHALL BE TAGGED
AS "IN" OR "OUT" AND "CW" OR "CCW".
SHIELDED CABLE WILL BE TAGGED IN
EACH HANDHOLE AND CABINET TO
MATCH THE CABLE LOG.

FILE NAME =	USER NAME = mezag	DESIGNED - R.L.	REVISED - 6/94
		DRAWN - G.M.	REVISED - 10/96
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
TRAFFIC SYSTEMS CENTER

SCALE: NONE		SHEET NO.	OF	SHEETS	STA.	TO STA.	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
LOOP STATUS REPORT							CONTRACT NO.		ILLINOIS FED. AID PROJECT		

TRAFFIC SYSTEMS CENTER (TY-1TSC-418#7)

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TranSmart
100 S. Wacker Drive Suite 400
Chicago, Illinois 60606

USER NAME = dmeier	DESIGNED - DJM	REVISED -
	DRAWN - DJM	REVISED -
PLOT SCALE = 100.000' / 1/4"	CHECKED - REL	REVISED -
PLOT DATE = 5/31/2024	DATE - 6/4/2024	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCALE: N.T.S.		SHEET 24	OF	24	SHEETS	STA.	TO STA.
INDUCTION LOOP - TSC STANDARD 418#7							CONTRACT NO. 62R26

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 21 STRUCTURE 5	WILL	525	350
ILLINOIS FED. AID PROJECT				

Benchmark: Set 2" CWA aluminum disc in concrete camera pole base east side of I-55, approximately 780' north of I-80 centerline and southwest of westbound I-80 ramp to I-55 northbound. Elev. 568.25

Existing Structure: None

Traffic Control: None

No Salvage.

LOADING HL-93
Allow 50#/sq. ft. for future wearing surface.

DESIGN SPECIFICATIONS
2020 AASHTO LRFD Bridge Design Specifications, 9th Edition

DESIGN STRESSES

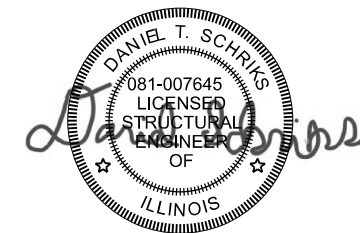
FIELD UNITS
f_c = 3,500 psi
f_c = 4,000 psi (Superstructure)
f_y = 60,000 psi (Reinforcement)
f_y = 50,000 psi (M270 Grade 50)
All Structural Steel shall be metalized

SEISMIC DATA

Seismic Performance Zone (SPZ) = 1
Design Spectral Acceleration at 1.0 sec. (SD1) = 0.068g
Design Spectral Acceleration at 0.2 sec. (SDS) = 0.127g
Soil Site Class = C

CURVE DATA

PRBL_RAMPAA-3
P.I. Sta. = 26+31.25
Δ = 51°28'35"
D = 06°51'42"
R = 835.00'
T = 402.54'
L = 750.19'
E = 91.97'
e = 6.0%
T.R. = N/A
S.E. Run = N/A
P.C. Sta. = 22+28.70
P.T. Sta. = 29+78.90

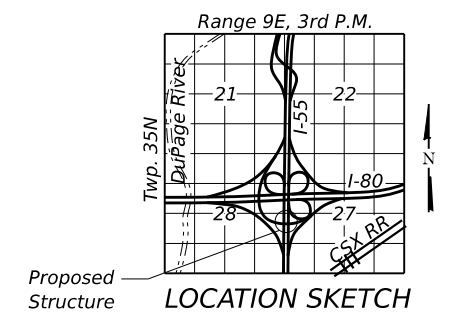


Expires 11/30/2024

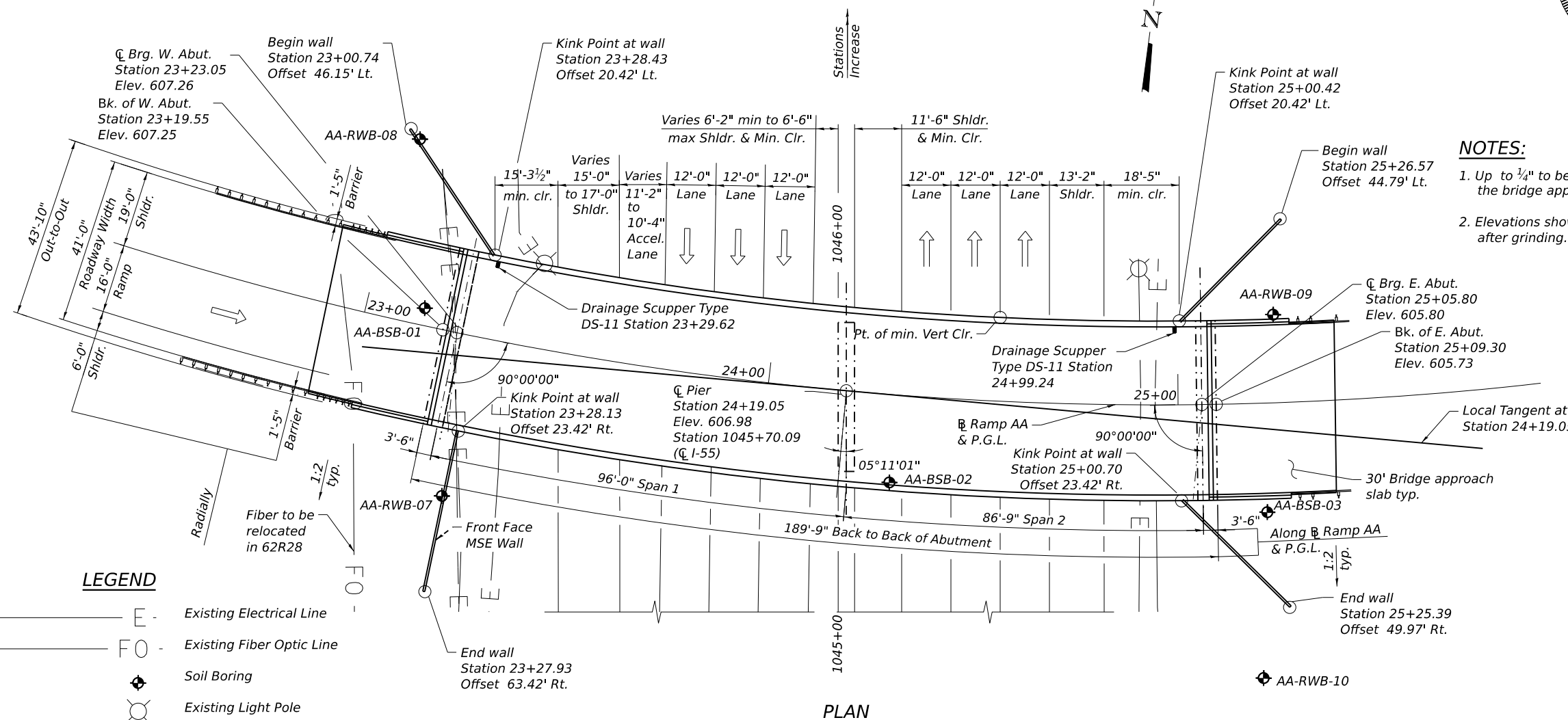
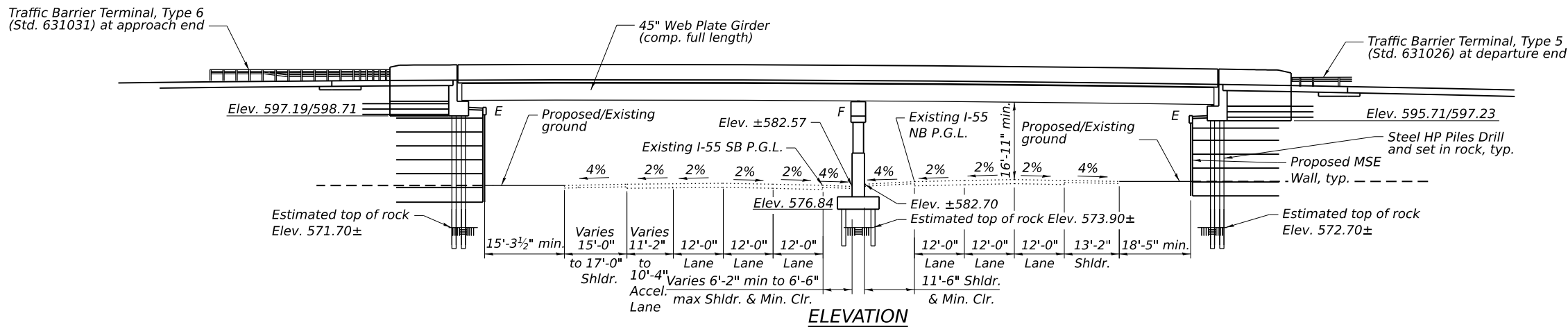
APPROVED
For Structural Adequacy Only
Engineer of Bridges & Structures

NOTES:

- Up to 1/4" to be ground off the bridge deck and the bridge approach slabs
- Elevations shown on plan represent elevations after grinding.



GENERAL PLAN AND ELEVATION
I-55 RAMP AA OVER I-55
F.A.I. ROUTE 80 - SEC. FAI 80 21 STRUCTURE 5
WILL COUNTY
STA. 24+19.05
STRUCTURE NO. 099-8330



LEGEND

- E - Existing Electrical Line
- FO - Existing Fiber Optic Line
- Soil Boring
- Existing Light Pole

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USER NAME = eoskou	DESIGNED - CRS	REVISED -
PLOT SCALE =	CHECKED - DTS	REVISED -
PLOT DATE = 8/16/2024	DRAWN - CRS	REVISED -
	CHECKED - DTS	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN AND ELEVATION
STRUCTURE NO. 099-8330

SHEET SB-01 OF SB-34 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	FAI 80 21 STRUCTURE 5	WILL	525	351
CONTRACT NO. 62R26				
		ILLINOIS	FED. AID PROJECT	

GENERAL NOTES:

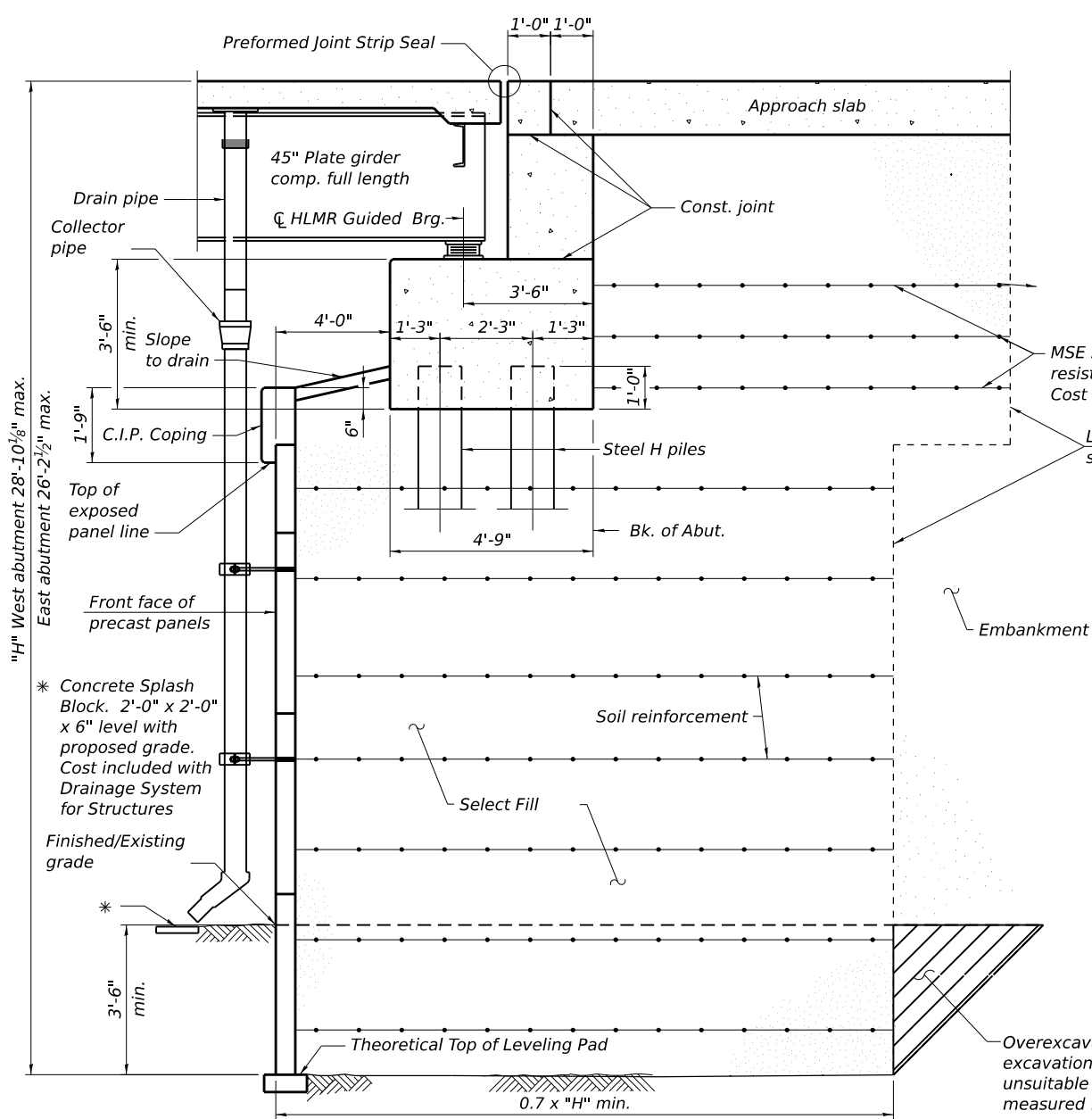
- Fasteners shall be ASTM F3125 Grade A325 Type 1, hot dipped galvanized bolts in metalized areas. Bolts 7/8" diameter, holes 1 1/16" diameter, unless otherwise noted. See Special Provisions for "Metalizing of Structural Steel."
- Calculated weight of Structural Steel = 296,110 lbs
- All structural steel shall be AASHTO M270 Grade 50 and shall be metalized. See Special Provision for "Metalizing of Structural Steel."
- No field welding is permitted except as specified in the contract documents.
- Reinforcement bars designated (E) shall be epoxy coated.
- Bearing seat surfaces shall be constructed or adjusted to the designated elevations within a tolerance of 1/8 in. (0.01 ft.). Adjustment shall be made either by grinding the surface or by shimming the bearings.
- A film forming concrete sealer shall be applied to the surface area of the pier, as well as bearing seats and front faces of the hatched block, backwall, and abutment cap.
- The interior metalized areas shall be painted with System 1. Exterior fascia and bottom of bottom flange areas shall be metalized and shop painted (System 3). See special provision for "Metalizing of Structural Steel." The color of the final finish coat of the paint shall be Reddish Brown, Munsell No. 2.5 YR 3/4.
- Slip forming of the parapets is not allowed.
- The embankment configuration shown shall be the minimum that must be placed and compacted prior to construction of the abutments.
- Piles shall be constructed prior to placement of soil reinforcement and select backfill.

INDEX OF SHEETS:

- SB-1 General Plan and Elevation
- SB-2 General Notes, Index of Sheets & Bill of Material
- SB-3 Foundation Layout Plan
- SB-4 Top of Slab Elevation Plan
- SB-5 Top of Slab Elevation (1 of 2)
- SB-6 Top of Slab Elevation (2 of 2)
- SB-7 Top of Approach Slab Elevations
- SB-8 Superstructure Reinforcement Plan
- SB-9 Superstructure Details (1 of 2)
- SB-10 Superstructure Details (2 of 2)
- SB-11 Bridge Approach Slab Plan View
- SB-12 Approach Slab Details
- SB-13 Preformed Joint Strip Seal
- SB-14 Drainage Scuppers, DS-11
- SB-15 Framing Plan & Girder Elevation
- SB-16 Cross Frames
- SB-17 Moment and Reaction Table
- SB-18 Splice and Camber Details
- SB-19 Fixed HLMR Disc Bearing Details
- SB-20 Guided Expansion HLMR Disc Bearing Details
- SB-21 Bearing Layout
- SB-22 Abutment Plan
- SB-23 Abutment Details
- SB-24 Abutment Bill of Material
- SB-25 West Abutment MSE Wall
- SB-26 East Abutment MSE Wall
- SB-27 MSE Wall Details
- SB-28 Pier Plan and Elevation
- SB-29 Pier Footing Detail & BOM
- SB-30 HP Pile Details
- SB-31 Soil Borings (1 of 4)
- SB-32 Soil Borings (2 of 4)
- SB-33 Soil Borings (3 of 4)
- SB-34 Soil Borings (4 of 4)

TOTAL BILL OF MATERIAL

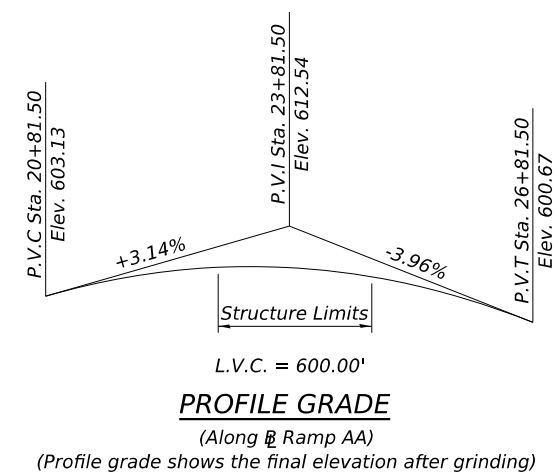
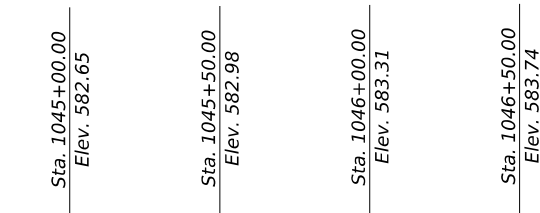
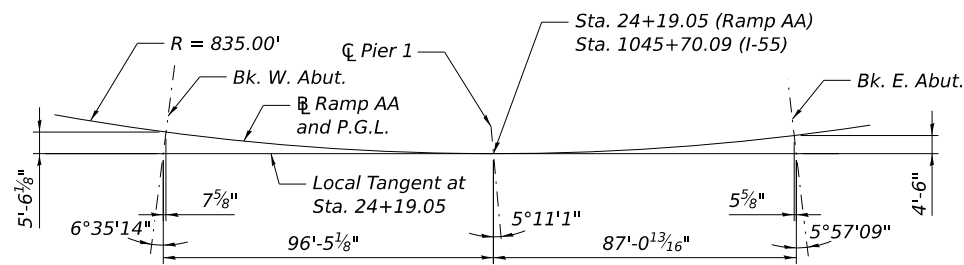
ITEM	UNIT	SUPER	SUB	TOTAL
Structure Excavation	Cu. Yd.	-	481.7	481.7
Removal and Disposal of Unsuitable Material for Structure	Cu. Yd.	-	3.2	3.2
Concrete Structures	Cu. Yd.	-	320.1	320.1
Concrete Superstructure	Cu. Yd.	286.4	-	286.4
Protective Coat	Sq. Yd.	1051	-	1051
Concrete Superstructure (Approach Slab)	Cu. Yd.	119.2	-	119.2
Furnishing and Erecting Structural Steel	L. Sum	1	-	1
Stud Shear Connectors	Each	4563	-	4,563
Reinforcement Bars, Epoxy Coated	Pound	116,900	37,890	154,790
Furnishing Steel Piles HP14x73	Foot	-	1464	1,464
Drilling and Setting Piles (In Soil)	Cu. Ft.	-	1383.7	1383.7
Drilling and Setting Piles (In Rock)	Cu. Ft.	-	867.5	867.5
Name Plates	Each	1	-	1
Preformed Joint Strip Seal	Foot	92.0	-	92.0
Anchor Bolts, 1"	Each	84	-	84
Mechanically Stabilized Earth Retaining Walls	Sq. Ft.	-	3310	3,310
Drainage System for Structures	L. Sum	1	-	1
Granular Backfill for Structures	Cu. Yd.	-	3.2	3.2
Concrete Sealer	Sq. Ft.	-	2618	2,618
Bridge Deck Grooving (Longitudinal)	Sq. Yd.	437	-	437
Bar Terminator	Each	72	-	72
High Load Multi-Rotational Bearings, Disc, Fixed - 300K	Each	-	7	7
High Load Multi-Rotational Bearings, Disc, Guide Expansion - 200K	Each	-	14	14
Drainage Scupper, DS-11	Each	2	-	2
Diamond Grinding (Bridge Section)	Sq. Yd.	1012	-	1,012



MSE supplier shall design the abutment soil reinforcement to resist an unfactored horizontal force of 4.5 k/ft of abutment. Cost included with "Mechanically Stabilized Earth Retaining Wall"

STATION 24+19.05
BUILT 20__ BY
STATE OF ILLINOIS
F.A.I. RTE. 80 SECTION FAI 80 21 STRUCTURE 5
LOADING HL-93
STRUCTURE NO. 099-8330

NAME PLATE
See Std. 515001



SECTION THRU PILE SUPPORTED STUB ABUTMENT AT M.S.E. WALL

OFFSET SKETCH

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**GENERAL NOTES, INDEX OF SHEETS & BILL OF MATERIAL
STRUCTURE NO. 099-8330**

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	FAI 80 21 STRUCTURE 5	WILL	525	352

CONTRACT NO. 62R26

SHEET SB-02 OF SB-34 SHEETS

ILLINOIS FED. AID PROJECT

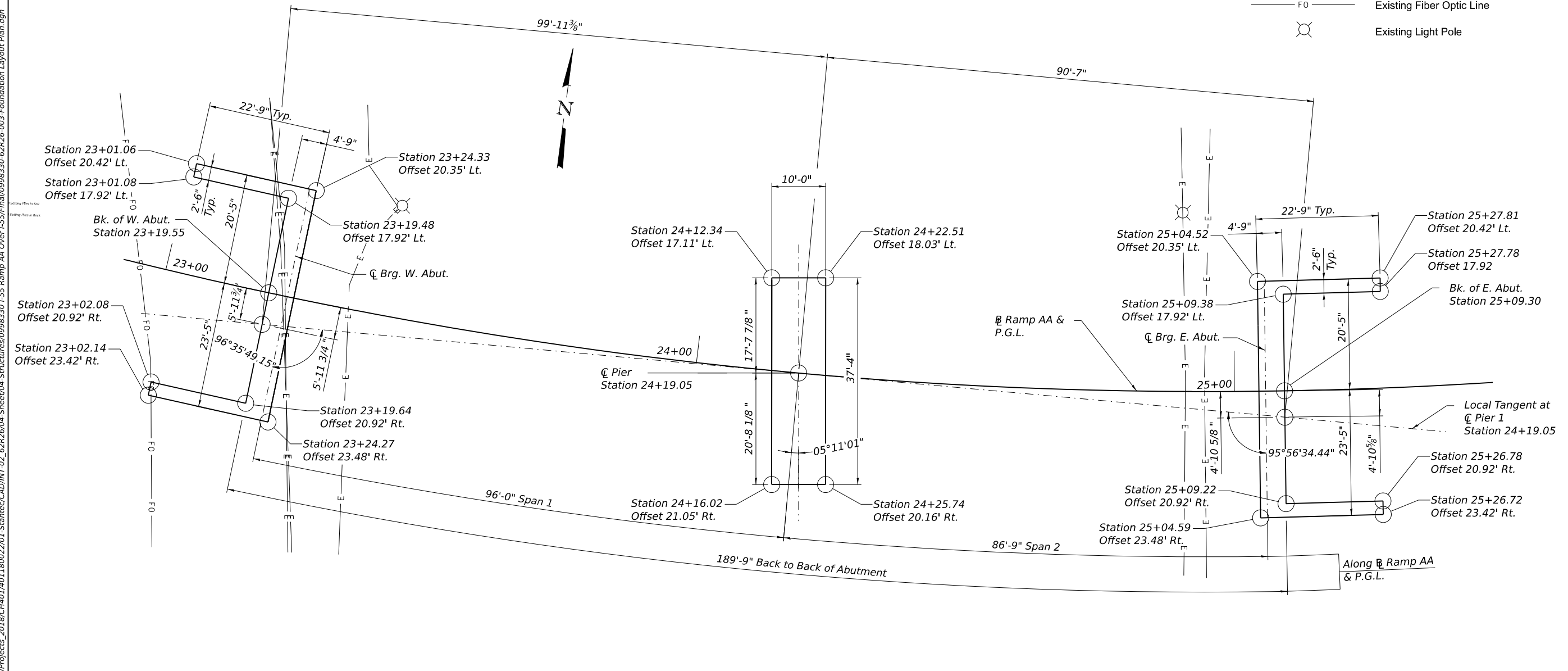
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LEGEND

- E — Existing Electrical Line
- FO — Existing Fiber Optic Line
- ⊗ Existing Light Pole



FOUNDATION LAYOUT

Notes:

1. See 'Abutment Plan' and 'Pier Plan and Elevation' Sheets for pile layout.



USER NAME = eoskou	DESIGNED - LRG	REVISED -
PLOT SCALE =	CHECKED - CRS	REVISED -
PLOT DATE = 7/18/2024	DRAWN - LRG	REVISED -
	CHECKED - CRS	REVISED -

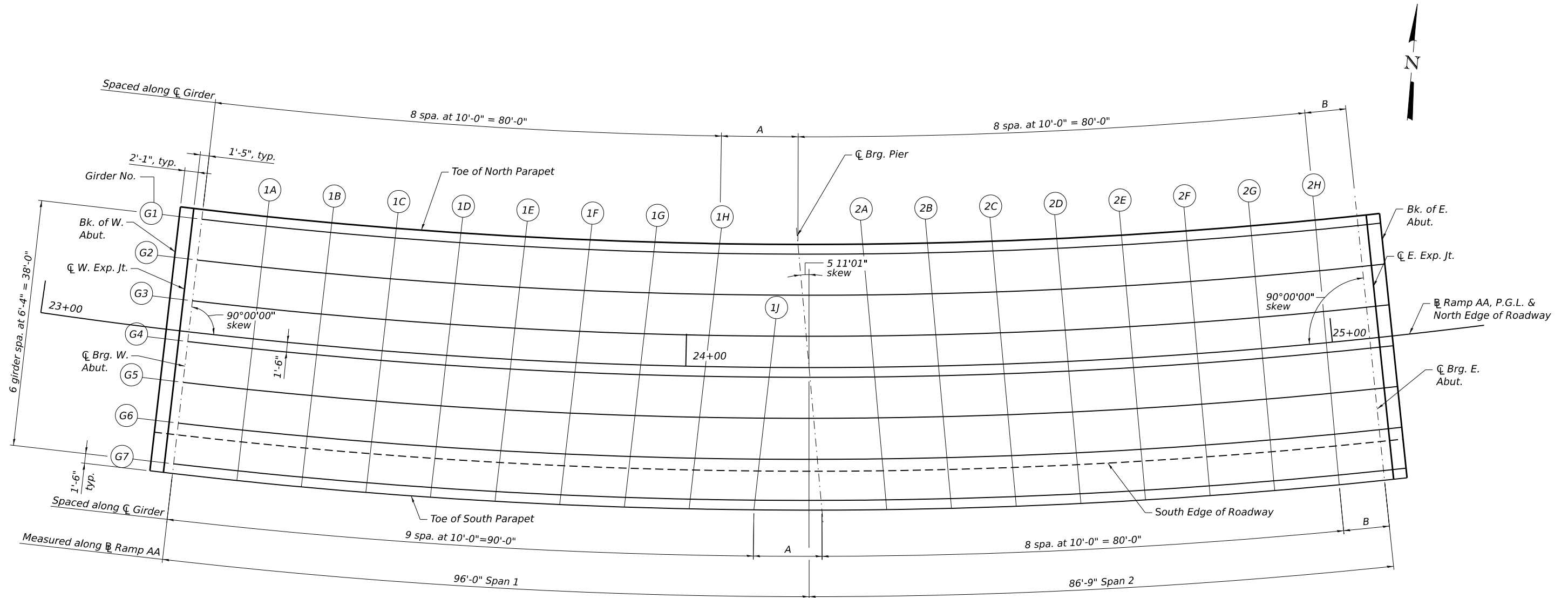
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**FOUNDATION LAYOUT PLAN
 STRUCTURE NO. 099-8330**

SHEET SB-03 OF SB-34 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 62R26				
		ILLINOIS	FED. AID PROJECT	

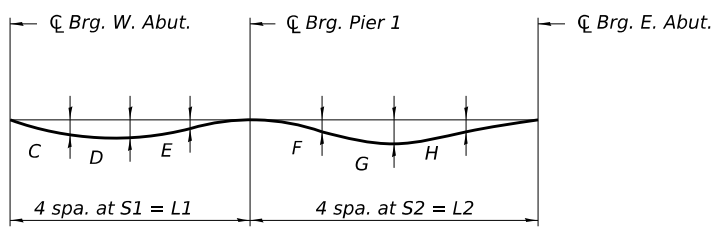
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PLAN

DIMENSIONS

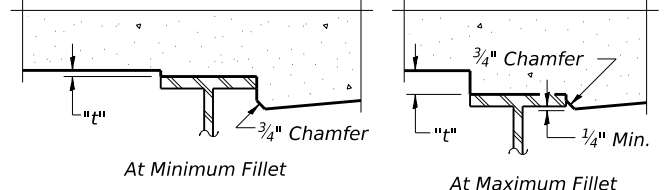
Screed Line	A	B	C	D	E	F	G	H	L1	L2	S1	S2
Toe of North Parapet	12'-1 1/8"	6'-6"	-	-	-	-	-	-	-	-	-	-
G1	12'-4 3/4"	6'-6 1/4"	5/8"	3/4"	3/8"	1/2"	3/8"	3/8"	92'-4 13/16"	86'-6 1/4"	23'-1 3/16" (+)	21'-7 9/16"
G2	13'-8 3/8"	6'-7 1/4"	3/4"	7/8"	1/2"	1/2"	3/8"	3/8"	93'-8 7/16"	86'-7 1/4"	23'-5 1/8" (-)	21'-7 13/16"
G3	5'-0 1/8"	6'-8 1/4"	3/4"	1"	1/2"	1/2"	3/8"	3/8"	95'-0 1/16"	86'-8 1/4"	23'-9" (+)	21'-8 1/16"
Ramp AA, P.G.L. & North Edge of Roadway	6'-0"	6'-9"	-	-	-	-	-	-	-	-	-	-
G4	6'-3 3/4"	6'-9 1/4"	7/8"	1 1/8"	1/2"	1/2"	3/8"	3/8"	96'-3 11/16"	86'-9 1/4"	24'-0 15/16" (-)	21'-8 5/16"
G5	7'-7 3/8"	6'-10 1/4"	1"	1 1/8"	5/8"	1/2"	3/8"	3/8"	97'-7 3/16"	86'-10 1/4"	24'-4 13/16" (+)	21'-8 9/16"
G6	8'-11"	6'-11 1/4"	1"	1 1/4"	5/8"	1/2"	3/8"	3/8"	98'-10 15/16"	86'-11 1/4"	24'-8 3/4" (-)	21'-8 13/16"
South Edge of Roadway	9'-3 3/8"	6'-11 1/2"	-	-	-	-	-	-	-	-	-	-
G7	10'-2 5/8"	7'-0 1/4"	1 1/8"	1 3/8"	3/4"	0"	3/8"	3/8"	100'-2 5/8"	87'-0 1/4"	25'-0 5/8" (+)	21'-9 1/16"
Toe of South Parapet	10'-6 1/4"	7'-0 1/2"	-	-	-	-	-	-	-	-	-	-



DEAD LOAD DEFLECTION DIAGRAM

(Includes weight of concrete only.)

Note:
 The above deflections are not to be used in the field if the engineer is working from the grade elevations adjusted for dead load deflections and grinding as shown on sheets SB-05 thru SB-06.



To determine "t": After all structural steel has been erected, elevations of the top flanges of the beams shall be taken at intervals shown above. These elevations subtracted from the "Theoretical Grade Elevations Adjusted for Dead Load Deflection and Grinding" shown on sheets SB-05 and SB-06 minus the initial slab thickness prior to grinding, equals the fillet heights "t" above top flange of beams. The slab is to be ground after curing to achieve smoothness, but the slab is not to be ground to elevations below the "Theoretical Grade Elevations" shown on sheet SB-05 and SB-06. For grinding the deck, see Special Provisions.

FILLET HEIGHTS



USER NAME = eoskou	DESIGNED - DTS	REVISED -
CHECKED - JZ	REVISIONS -	
PLOT SCALE =	DRAWN - DTS	REVISED -
PLOT DATE = 7/18/2024	CHECKED - JZ	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**TOP OF SLAB ELEVATION PLAN
 STRUCTURE NO. 099-8330**

SHEET SB-04 OF SB-34 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	FAI 80 21 STRUCTURE 5	WILL	525	354
CONTRACT NO. 62R26				
ILLINOIS		FED. AID PROJECT		

TOE OF NORTH PARAPET

Table with 5 columns: Location, Station, Offset, Theoretical Grade Elevations, Theoretical Grade Elevations Adjusted For Dead Load Deflection and Grinding. Rows include BK. W. ABUT., CL W. Exp. Jt., CL BRG. W. ABUT., 1A-1H, CL BRG PIER 1, 2A-2H, CL BRG. E. ABUT., CL E. Exp. Jt., BK. E. ABUT.

GIRDER 1

Table with 5 columns: Location, Station, Offset, Theoretical Grade Elevations, Theoretical Grade Elevations Adjusted For Dead Load Deflection and Grinding. Rows include BK. W. ABUT., CL W. Exp. Jt., CL BRG. W. ABUT., 1A-1H, CL BRG PIER 1, 2A-2H, CL BRG. E. ABUT., CL E. Exp. Jt., BK. E. ABUT.

GIRDER 2

Table with 5 columns: Location, Station, Offset, Theoretical Grade Elevations, Theoretical Grade Elevations Adjusted For Dead Load Deflection and Grinding. Rows include BK. W. ABUT., CL W. Exp. Jt., CL BRG. W. ABUT., 1A-1H, CL BRG PIER 1, 2A-2H, CL BRG. E. ABUT., CL E. Exp. Jt., BK. E. ABUT.

GIRDER 3

Table with 5 columns: Location, Station, Offset, Theoretical Grade Elevations, Theoretical Grade Elevations Adjusted For Dead Load Deflection and Grinding. Rows include BK. W. ABUT., CL W. Exp. Jt., CL BRG. W. ABUT., 1A-1J, CL BRG PIER 1, 2A-2H, CL BRG. E. ABUT., CL E. Exp. Jt., BK. E. ABUT.

Ramp AA, P.G.L. & North Edge of Roadway

Table with 5 columns: Location, Station, Offset, Theoretical Grade Elevations, Theoretical Grade Elevations Adjusted For Dead Load Deflection and Grinding. Rows include BK. W. ABUT., CL W. Exp. Jt., CL BRG. W. ABUT., 1A-1J, CL BRG PIER 1, 2A-2H, CL BRG. E. ABUT., CL E. Exp. Jt., BK. E. ABUT.

Girder 4

Table with 5 columns: Location, Station, Offset, Theoretical Grade Elevations, Theoretical Grade Elevations Adjusted For Dead Load Deflection and Grinding. Rows include BK. W. ABUT., CL W. Exp. Jt., CL BRG. W. ABUT., 1A-1J, CL BRG PIER 1, 2A-2H, CL BRG. E. ABUT., CL E. Exp. Jt., BK. E. ABUT.

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Table with 4 columns: USER NAME, DESIGNED, CHECKED, PLOT SCALE, PLOT DATE. Values include eoskou, DTS, JZ, -, 7/18/2024.

Table with 4 columns: REVISED, CHECKED, REVISED, REVISED. Values include -, JZ, -, -.

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

TOP OF SLAB ELEVATION (1 OF 2) STRUCTURE NO. 099-8330

SHEET SB-05 OF SB-34 SHEETS

Table with 6 columns: F.A.I. RTE., SECTION, COUNTY, TOTAL SHEETS, SHEET NO., CONTRACT NO. Values include 80, FAI 80 21 STRUCTURE 5, WILL, 525, 355, 099-8330.

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GIRDER 5

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection and Grinding
BK. W. ABUT.	23+19.59	7.83	607.72	607.74
CL W. Exp. Jt.	23+21.65	7.83	607.72	607.74
CL BRG. W. ABUT.	23+23.05	7.83	607.73	607.75
1A	23+32.96	7.83	607.75	607.81
1B	23+42.87	7.83	607.76	607.85
1C	23+52.77	7.83	607.76	607.87
1D	23+62.68	7.83	607.74	607.86
1E	23+72.59	7.83	607.72	607.84
1F	23+82.50	7.83	607.68	607.79
1G	23+92.40	7.83	607.64	607.72
1H	24+02.31	7.83	607.58	607.63
1J	24+12.22	7.83	607.51	607.54
CL BRG PIER 1	24+19.76	7.83	607.44	607.47
2A	24+29.66	7.83	607.35	607.37
2B	24+39.57	7.83	607.25	607.28
2C	24+49.48	7.83	607.14	607.18
2D	24+59.39	7.83	607.01	607.06
2E	24+69.29	7.83	606.87	606.93
2F	24+79.20	7.83	606.72	606.78
2G	24+89.11	7.83	606.56	606.61
2H	24+99.01	7.83	606.39	606.42
CL BRG. E. ABUT.	25+05.80	7.83	606.27	606.29
CL E. Exp. Jt.	25+07.21	7.83	606.24	606.26
BK. E. ABUT.	25+09.27	7.83	606.20	606.22

GIRDER 6

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection and Grinding
BK. W. ABUT.	23+19.61	14.17	608.10	608.12
CL W. Exp. Jt.	23+21.66	14.17	608.10	608.12
CL BRG. W. ABUT.	23+23.05	14.17	608.11	608.13
1A	23+32.89	14.17	608.13	608.19
1B	23+42.72	14.17	608.14	608.24
1C	23+52.55	14.17	608.14	608.26
1D	23+62.39	14.17	608.13	608.25
1E	23+72.22	14.17	608.10	608.23
1F	23+82.05	14.17	608.07	608.18
1G	23+91.89	14.17	608.02	608.11
1H	24+01.72	14.17	607.96	608.02
1J	24+11.55	14.17	607.89	607.93
CL BRG PIER 1	24+20.32	14.17	607.82	607.84
2A	24+30.15	14.17	607.73	607.75
2B	24+39.98	14.17	607.63	607.65
2C	24+49.82	14.17	607.51	607.55
2D	24+59.65	14.17	607.39	607.44
2E	24+69.48	14.17	607.25	607.31
2F	24+79.32	14.17	607.10	607.16
2G	24+89.15	14.17	606.94	606.99
2H	24+98.98	14.17	606.77	606.81
CL BRG. E. ABUT.	25+05.80	14.17	606.65	606.67
CL E. Exp. Jt.	25+07.20	14.17	606.62	606.64
BK. E. ABUT.	25+09.24	14.17	606.58	606.60

SOUTH EDGE OF ROADWAY

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection and Grinding
BK. W. ABUT.	23+19.62	16.00	608.21	608.23
CL W. Exp. Jt.	23+21.66	16.00	608.21	608.23
CL BRG. W. ABUT.	23+23.05	16.00	608.22	608.24
1A	23+32.87	16.00	608.24	608.30
1B	23+42.68	16.00	608.25	608.35
1C	23+52.49	16.00	608.25	608.37
1D	23+62.30	16.00	608.24	608.36
1E	23+72.11	16.00	608.21	608.34
1F	23+81.93	16.00	608.18	608.29
1G	23+91.74	16.00	608.13	608.22
1H	24+01.55	16.00	608.07	608.13
1J	24+11.36	16.00	608.00	608.04
CL BRG PIER 1	24+20.47	16.00	607.93	607.95
2A	24+30.29	16.00	607.84	607.86
2B	24+40.10	16.00	607.73	607.76
2C	24+49.91	16.00	607.62	607.66
2D	24+59.72	16.00	607.50	607.55
2E	24+69.54	16.00	607.36	607.42
2F	24+79.35	16.00	607.21	607.27
2G	24+89.16	16.00	607.05	607.10
2H	24+98.97	16.00	606.88	606.92
CL BRG. E. ABUT.	25+05.80	16.00	606.76	606.78
CL E. Exp. Jt.	25+07.19	16.00	606.73	606.75
BK. E. ABUT.	25+09.24	16.00	606.69	606.71

GIRDER 7

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection and Grinding
BK. W. ABUT.	23+19.64	20.50	608.48	608.50
CL W. Exp. Jt.	23+21.67	20.50	608.48	608.50
CL BRG. W. ABUT.	23+23.05	20.50	608.49	608.51
1A	23+32.81	20.50	608.51	608.58
1B	23+42.57	20.50	608.52	608.62
1C	23+52.33	20.50	608.52	608.65
1D	23+62.09	20.50	608.51	608.65
1E	23+71.85	20.50	608.48	608.62
1F	23+81.62	20.50	608.45	608.57
1G	23+91.38	20.50	608.40	608.50
1H	24+01.14	20.50	608.34	608.41
1J	24+10.90	20.50	608.28	608.32
CL BRG PIER 1	24+20.87	20.50	608.20	608.22
2A	24+30.63	20.50	608.10	608.12
2B	24+40.39	20.50	608.00	608.03
2C	24+50.15	20.50	607.89	607.92
2D	24+59.91	20.50	607.76	607.81
2E	24+69.67	20.50	607.63	607.68
2F	24+79.43	20.50	607.48	607.54
2G	24+89.19	20.50	607.32	607.37
2H	24+98.95	20.50	607.15	607.19
CL BRG. E. ABUT.	25+05.80	20.50	607.03	607.05
CL E. Exp. Jt.	25+07.19	20.50	607.00	607.02
BK. E. ABUT.	25+09.22	20.50	606.96	606.98

Toe of South Parapet

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection and Grinding
BK. W. ABUT.	23+19.64	22.00	608.57	608.59
CL W. Exp. Jt.	23+21.67	22.00	608.57	608.59
CL BRG. W. ABUT.	23+23.05	22.00	608.58	608.60
1A	23+32.80	22.00	608.60	608.67
1B	23+42.54	22.00	608.61	608.71
1C	23+52.28	22.00	608.61	608.73
1D	23+62.03	22.00	608.60	608.74
1E	23+71.77	22.00	608.57	608.71
1F	23+81.51	22.00	608.54	608.66
1G	23+91.26	22.00	608.49	608.59
1H	24+01.00	22.00	608.44	608.50
1J	24+10.74	22.00	608.37	608.41
CL BRG PIER 1	24+21.00	22.00	608.28	608.30
2A	24+30.74	22.00	608.19	608.21
2B	24+40.48	22.00	608.09	608.11
2C	24+50.23	22.00	607.98	608.01
2D	24+59.97	22.00	607.85	607.90
2E	24+69.71	22.00	607.72	607.77
2F	24+79.46	22.00	607.57	607.62
2G	24+89.20	22.00	607.41	607.46
2H	24+98.94	22.00	607.24	607.28
CL BRG. E. ABUT.	25+05.80	22.00	607.12	607.14
CL E. Exp. Jt.	25+07.18	22.00	607.09	607.11
BK. E. ABUT.	25+09.21	22.00	607.05	607.07



USER NAME = eoskou	DESIGNED - DTS	REVISED -
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	CHECKED - CRS	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TOP OF SLAB ELEVATION (2 OF 2)
STRUCTURE NO. 099-8330**

SHEET SB-06 OF SB-34 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	FAI 80 21 STRUCTURE 5	WILL	525	356
CONTRACT NO. 62R26				
ILLINOIS		FED. AID PROJECT		

WEST APPROACH NORTH EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for Grinding
West End West Approach Slab	22+89.80	-19.00	605.96	605.98
A1	23+00.03	-19.00	606.02	606.04
A2	23+10.26	-19.00	606.07	606.09
East End West Approach Slab	23+20.49	-19.00	606.11	606.13

WEST APPROACH SOUTH EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for Grinding
West End West Approach Slab	22+91.16	16.00	608.07	608.09
A1	23+00.98	16.00	608.13	608.15
A2	23+10.79	16.00	608.17	608.19
East End West Approach Slab	23+20.60	16.00	608.21	608.23

EAST APPROACH NORTH EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for Grinding
West End East Approach Slab	25+08.36	-19.00	604.61	604.63
A3	25+18.59	-19.00	604.41	604.43
A4	25+28.83	-19.00	604.19	604.21
East End East Approach Slab	25+39.06	-19.00	603.96	603.98

WEST APPROACH NORTH EDGE OF PAVEMENT & P.G.L.

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for Grinding
West End West Approach Slab	22+90.55	0.00	607.10	607.12
A1	23+00.55	0.00	607.16	607.18
A2	23+10.55	0.00	607.21	607.23
East End West Approach Slab	23+20.55	0.00	607.25	607.27

WEST APPROACH SOUTH EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for Grinding
West End West Approach Slab	22+91.39	22.00	608.43	608.45
A1	23+01.13	22.00	608.49	608.51
A2	23+10.87	22.00	608.53	608.55
East End West Approach Slab	23+20.62	22.00	608.57	608.59

EAST APPROACH NORTH EDGE OF PAVEMENT & P.G.L.

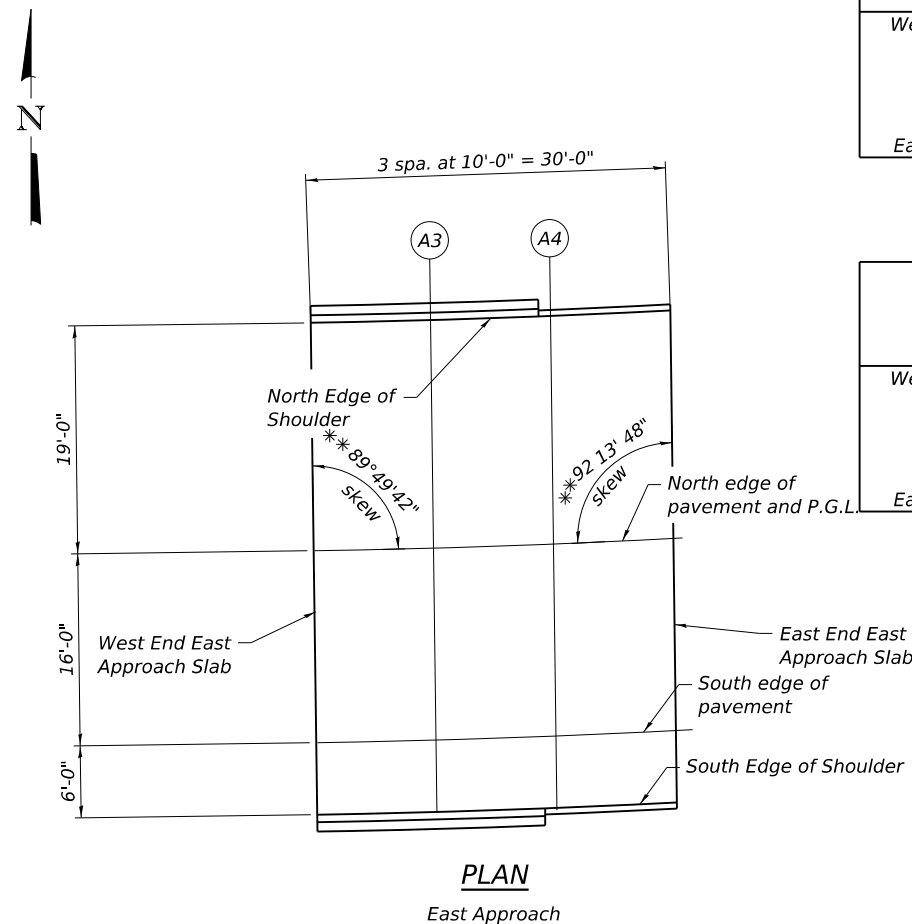
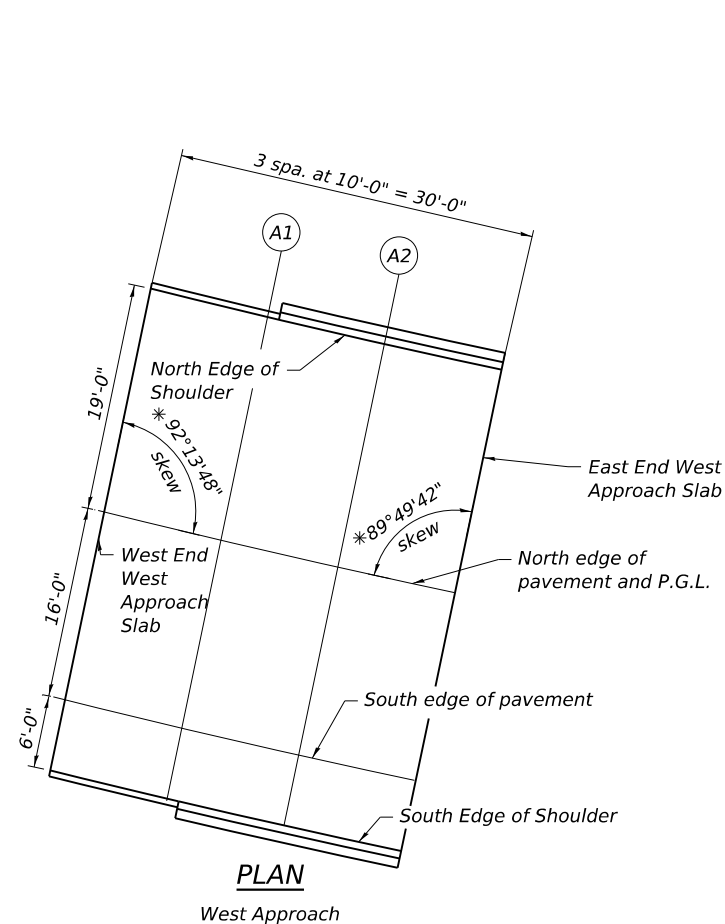
Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for Grinding
West End East Approach Slab	25+08.30	0.00	605.75	605.77
A3	25+18.30	0.00	605.55	605.57
A4	25+28.30	0.00	605.34	605.36
East End East Approach Slab	25+38.30	0.00	605.12	605.14

EAST APPROACH SOUTH EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for Grinding
West End East Approach Slab	25+08.26	16.00	606.71	606.73
A3	25+18.07	16.00	606.52	606.54
A4	25+27.88	16.00	606.31	606.33
East End East Approach Slab	25+37.69	16.00	606.10	606.12

EAST APPROACH SOUTH EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for Grinding
West End East Approach Slab	25+08.24	22.00	607.07	607.09
A3	25+17.98	22.00	606.88	606.90
A4	25+27.73	22.00	606.67	606.69
East End East Approach Slab	25+37.47	22.00	606.46	606.48



* Ends of west approach slab parallel to C.C. Brg. W. Abut.

** Ends of east approach slab parallel to C.C. Brg. E. Abut.

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USER NAME = eoskou	DESIGNED - DTS	REVISD -
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PLOT DATE = 7/18/2024	DRAWN - DTS	REVISD -
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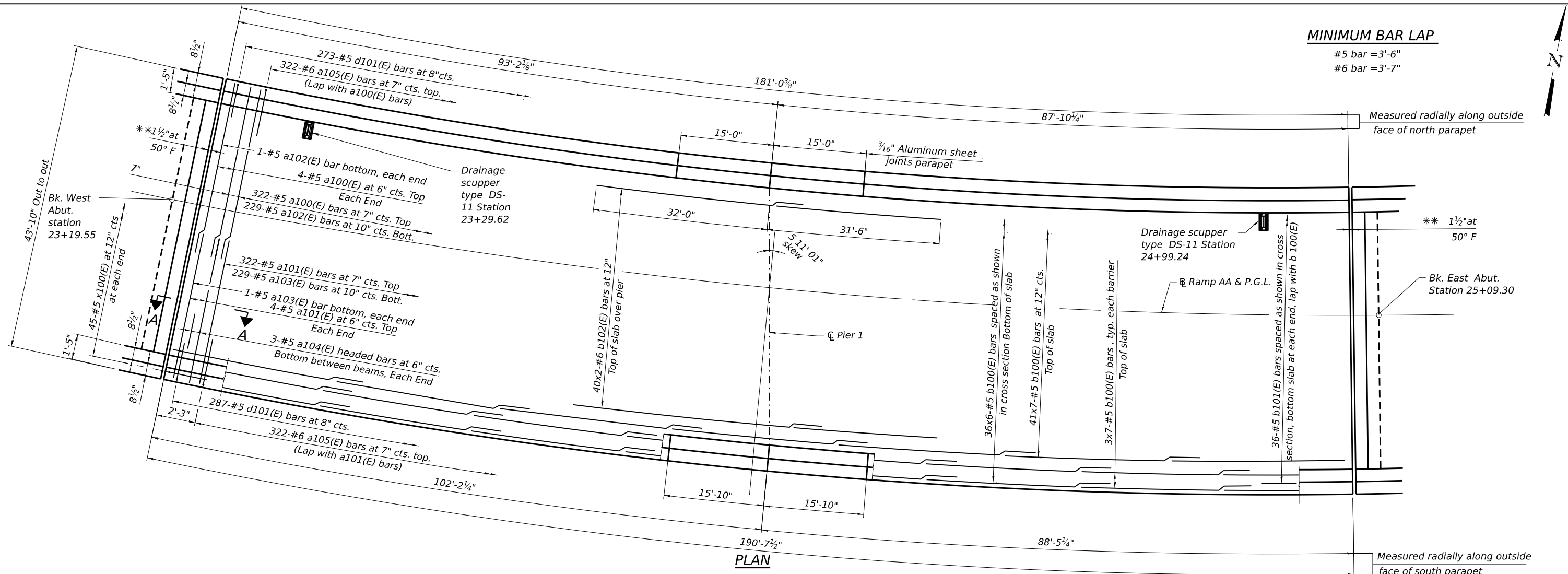
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TOP OF APPROACH SLAB ELEVATIONS
STRUCTURE NO. 099-8330**

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 62R26				
ILLINOIS FED. AID PROJECT				

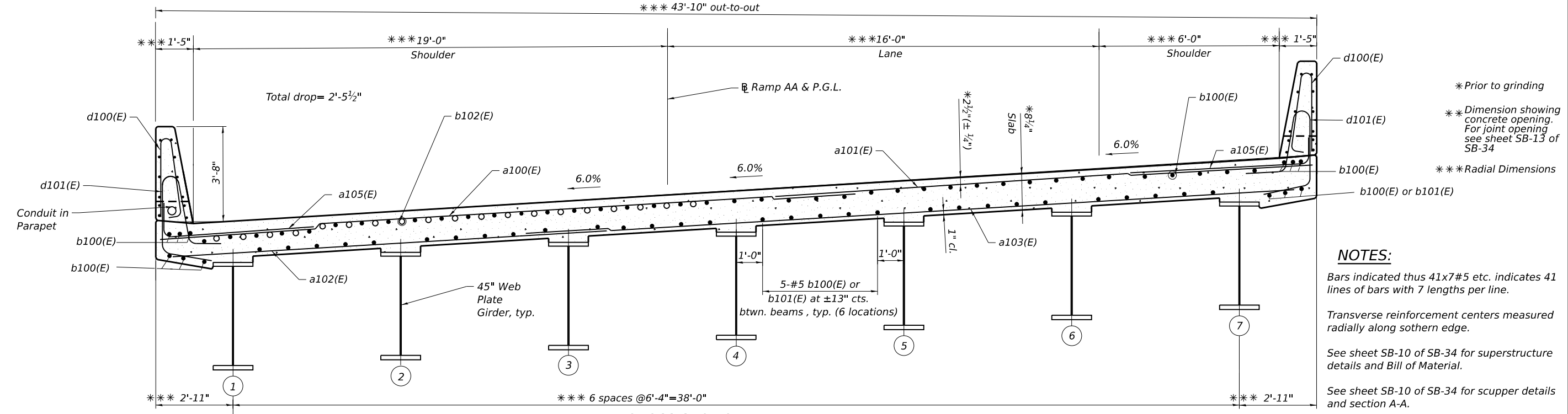
SHEET 5B-07 OF 5B-34 SHEETS

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MINIMUM BAR LAP
 #5 bar = 3'-6"
 #6 bar = 3'-7"

PLAN



CROSS SECTION
(Looking East)

NOTES:
 Bars indicated thus 41x7#5 etc. indicates 41 lines of bars with 7 lengths per line.
 Transverse reinforcement centers measured radially along southern edge.
 See sheet SB-10 of SB-34 for superstructure details and Bill of Material.
 See sheet SB-10 of SB-34 for scupper details and section A-A.



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PLOT DATE = 7/18/2024	DRAWN - SD	REVISIONS
	CHECKED - CRS	REVISIONS

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

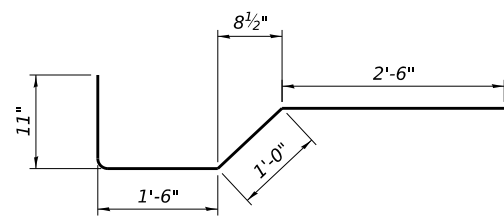
SUPERSTRUCTURE REINFORCEMENT PLAN
STRUCTURE NO. 099-8330

F.A.I. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	FAI 80 21 STRUCTURE 5	WILL	525	358
CONTRACT NO. 62R26				
ILLINOIS FED. AID PROJECT				

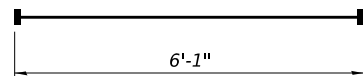
SHEET SB-08 OF SB-34 SHEETS

SUPERSTRUCTURE BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a100(E)	330	#5	26'-8"	—
a101(E)	330	#5	20'-4"	—
a102(E)	231	#5	17'-3"	—
a103(E)	231	#5	29'-10"	—
a104(E)	36	#5	6'-1"	—
a105(E)	644	#6	8'-4"	—
a106(E)	16	#5	1'-6"	—
b100(E)	545	#5	30'-3"	—
b101(E)	72	#5	16'-10"	—
b102(E)	80	#6	33'-7"	—
d100(E)	560	#5	7'-0"	—
d101(E)	560	#5	8'-0"	—
e100(E)	40	#4	16'-10"	—
e101(E)	24	#4	15'-6"	—
e102(E)	32	#4	17'-10"	—
e103(E)	16	#4	23'-3"	—
e104(E)	12	#4	25'-9"	—
e105(E)	32	#4	19'-4"	—
e106(E)	24	#4	14'-8"	—
e107(E)	32	#4	17'-10"	—
e108(E)	12	#4	27'-8"	—
e109(E)	12	#4	25'-10"	—
x100(E)	90	#5	5'-11"	—
Reinforcement Bars, Epoxy Coated			Pound	70,640
Concrete Superstructure			Cu. Yd.	286.4

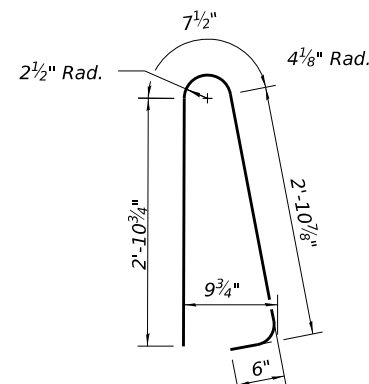


BAR x100(E)

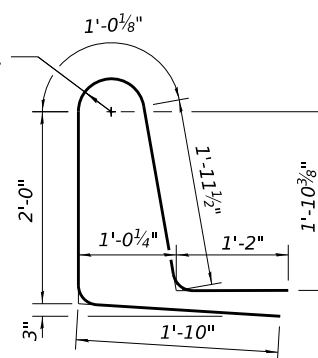


BAR a104(E)

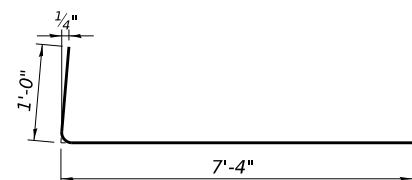
(Headed. 36-#5 Bar terminators)



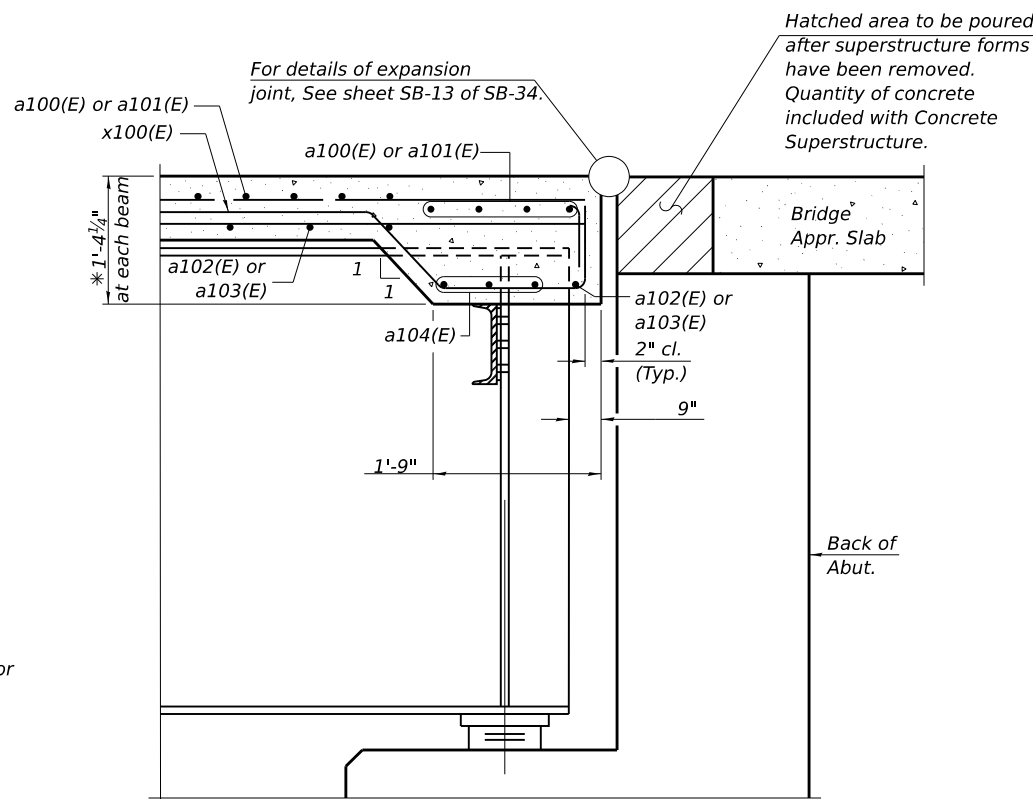
BAR d100(E)



BAR d101(E)



BAR a105(E)

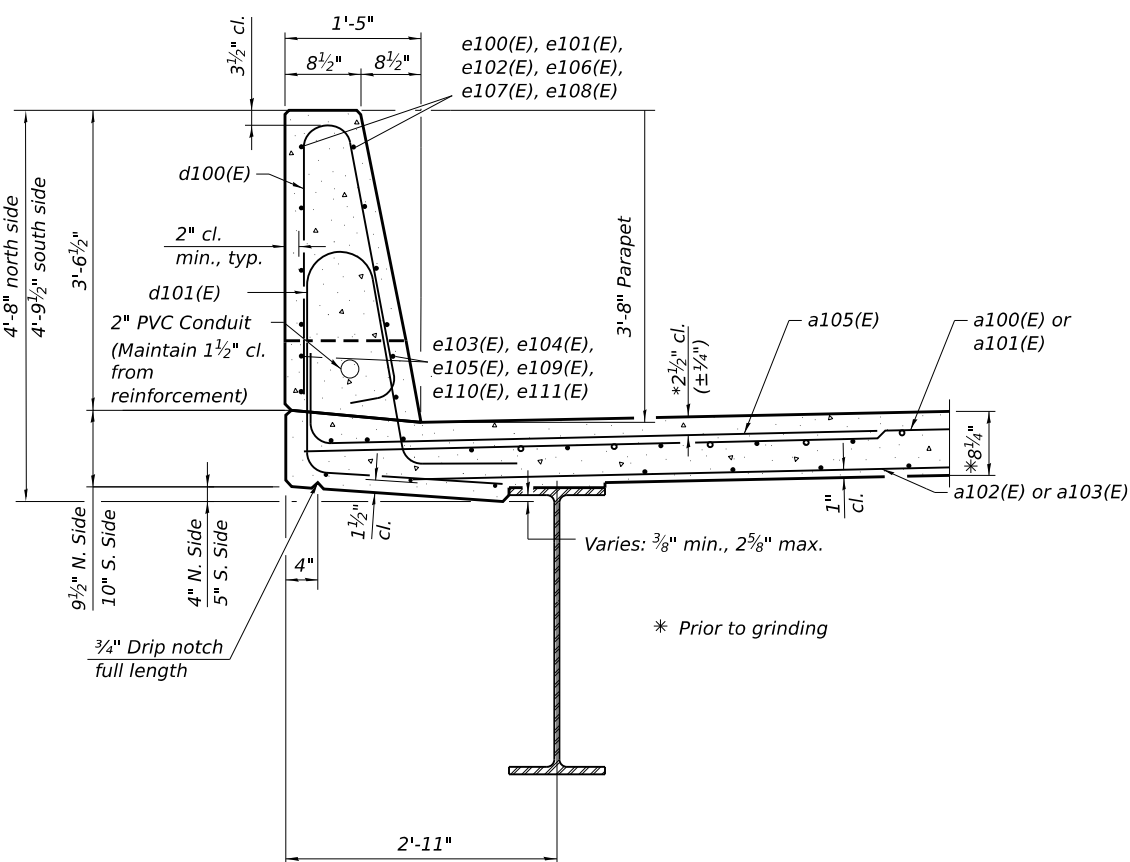


SECTION A-A

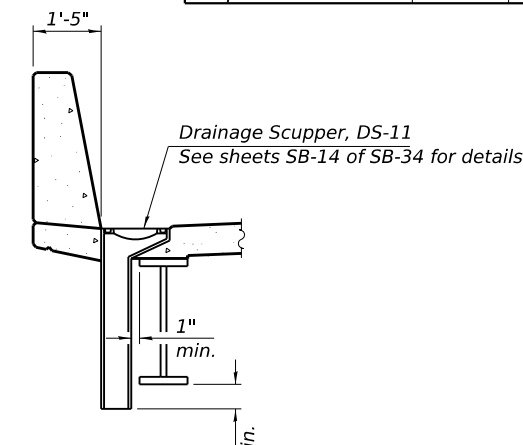
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NOTE:

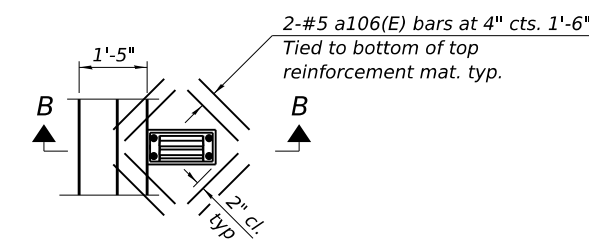
Cut longitudinal reinforcement to clear drainage scuppers.
Bar terminators, paid for separately. See Total Bill of Material.



SECTION THRU PARAPET



SECTION B-B



PLAN

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PLOT DATE = 7/18/2024	DRAWN - SD	REVISED -
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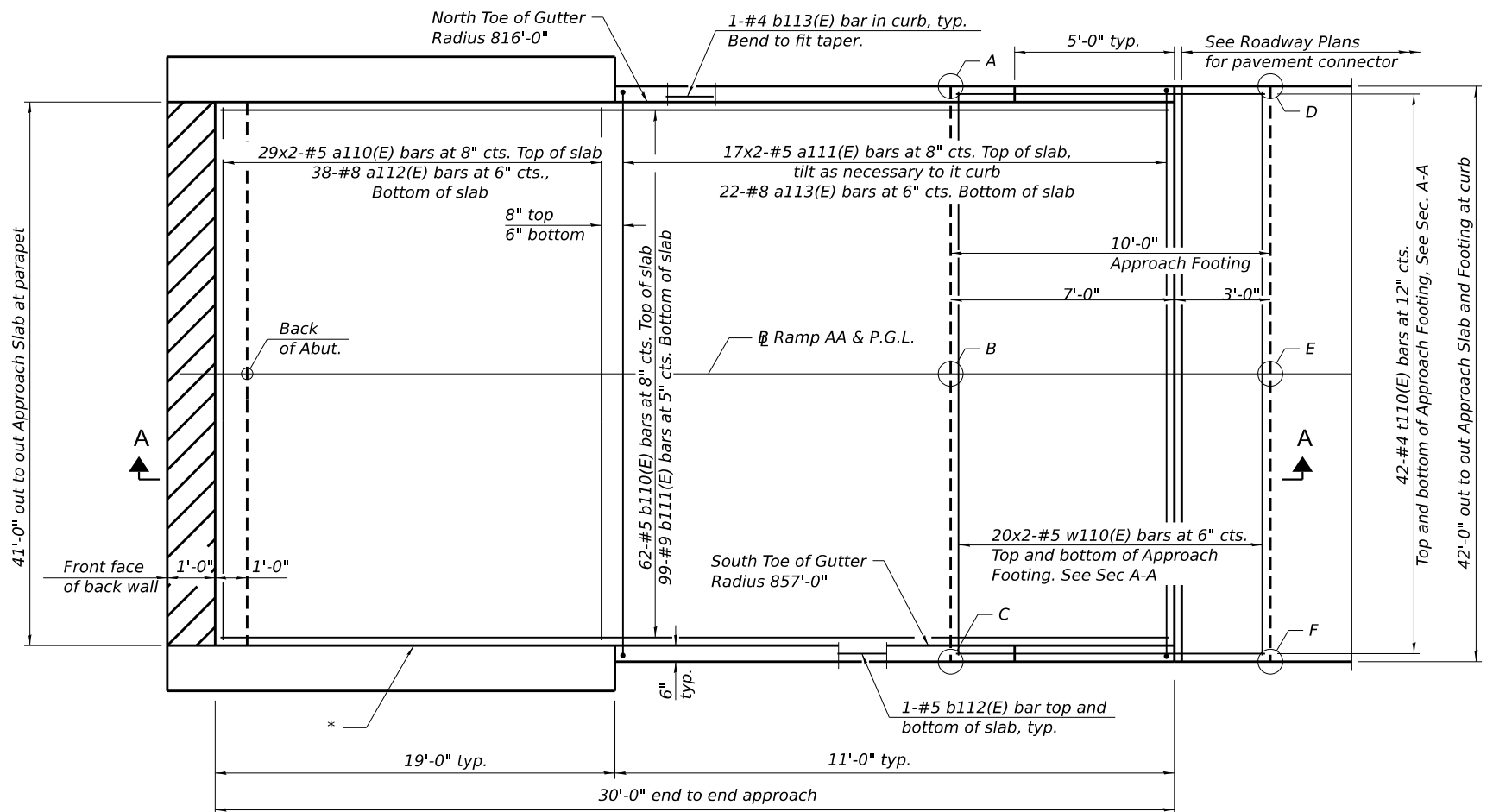
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SUPERSTRUCTURES DETAILS (2 OF 2)
STRUCTURE NO. 099-8330**

SHEET SB-10 OF SB-34 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	FAI 80 21 STRUCTURE 5	WILL	525	360
CONTRACT NO. 62R26				
ILLINOIS FED. AID PROJECT				

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PLAN

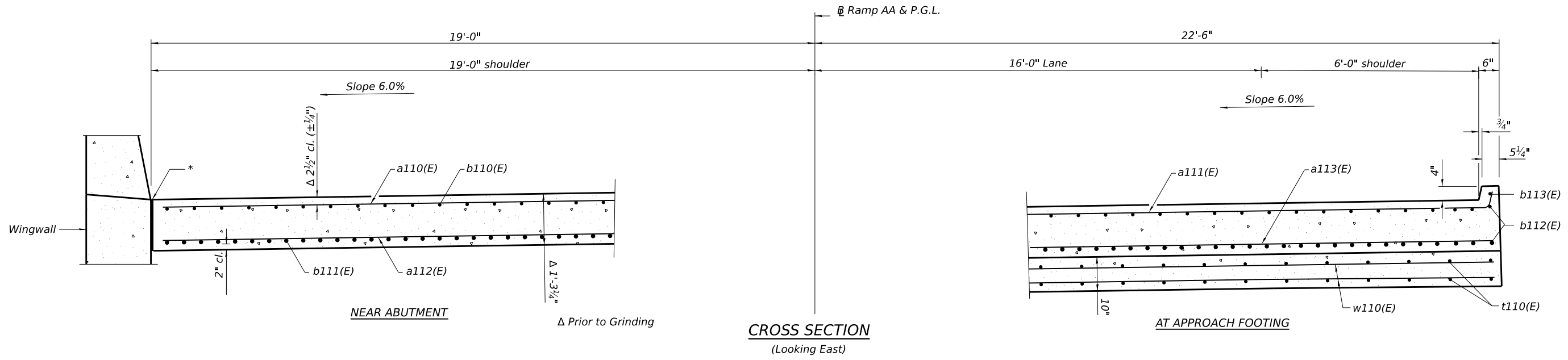
(East approach slab shown; West approach slab similar by 180° rotation)
 (See sheet SB-07 for approach slab layout)

MINIMUM BAR LAP
 #5 Bar = 3'-4"

TOP AND BOTTOM ELEVATIONS FOR APPROACH FOOTING

Point	West Approach		East Approach	
	Top	Bottom	Top	Bottom
A	604.64	603.81	602.76	601.93
B	605.81	604.98	603.94	603.11
C	607.17	606.33	605.31	604.48
D	604.57	603.74	602.53	601.70
E	605.75	604.92	603.72	602.89
F	607.11	606.27	605.09	604.26

* 1/2" Preformed Expansion Joint Filler according to Article 1051.09 of the Standard Specifications; full depth of slab, full length of parapet. Typ. each parapet.



BASA-CIP-3944CS-0 5-15-2023

(Sheet 1 of 2)



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PLOT DATE = 7/18/2024	DRAWN - DTS	REVISED -
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

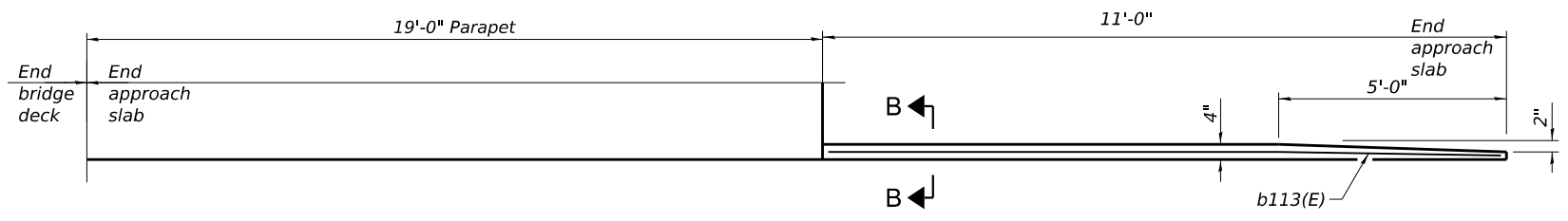
BRIDGE APPROACH SLAB PLAN VIEW
STRUCTURE NO. 099-8330

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	FAI 80 21 STRUCTURE 5	WILL	525	361
CONTRACT NO. 62R26				

SHEET SB-11 OF SB-34 SHEETS

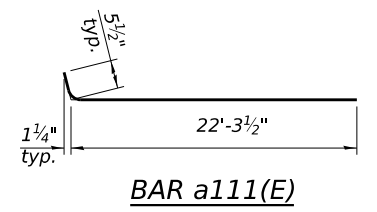
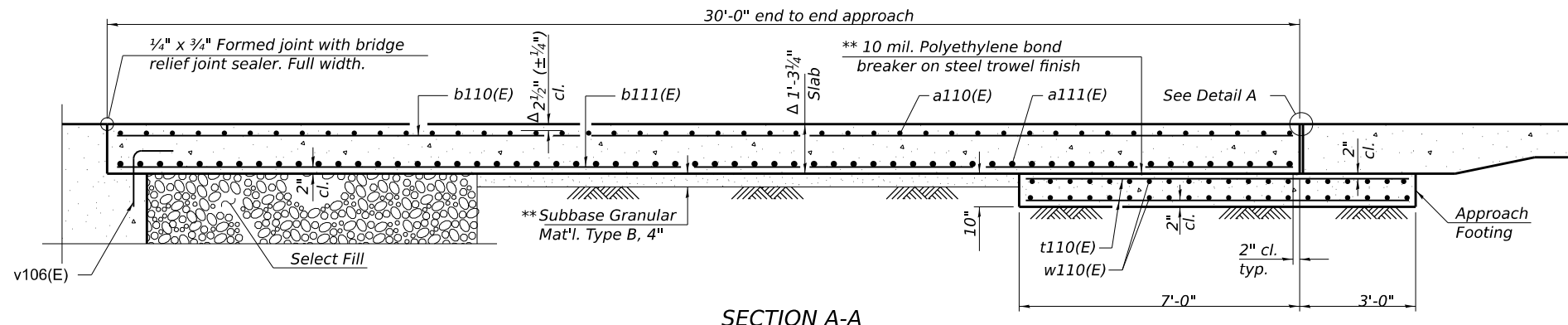
ILLINOIS FED. AID PROJECT

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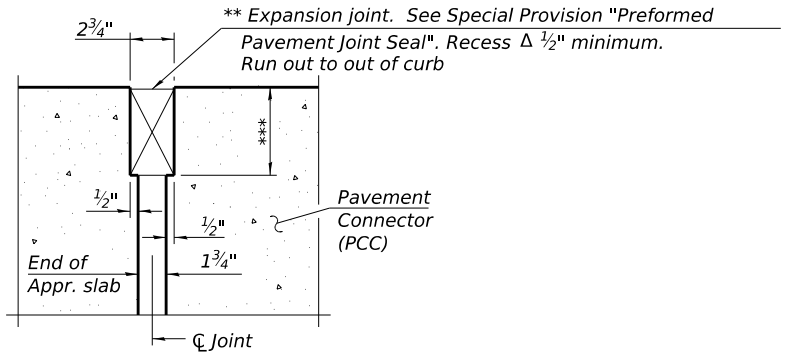
Notes:
 Approach slab shall be paid for as Concrete Superstructure (Approach Slab).
 Approach footing concrete shall be paid for as Concrete Structures.
 The approach footing maximum applied service bearing pressure (Q_{max}) = 2.0 ksf.
 Cost of excavation for approach footing included with Concrete Structures.
 For Select Fill and MSE Wall details, see sheet SB-02.
 See sheet SB-20 for hatched block details.

INSIDE ELEVATION OF PARAPET AND CURB

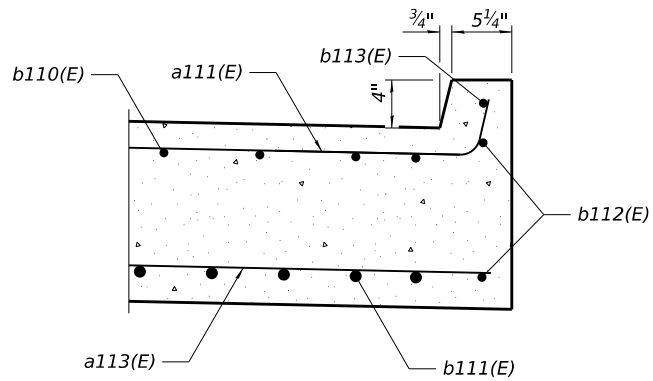


**TWO APPROACHES
BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
a110(E)	116	#5	22'-3"	—
a111(E)	68	#5	22'-9"	—
a112(E)	76	#8	40'-8"	—
a113(E)	44	#8	41'-8"	—
b110(E)	124	#5	29'-8"	—
b111(E)	198	#9	29'-8"	—
b112(E)	8	#5	10'-8"	—
b113(E)	4	#4	10'-8"	—
t110(E)	168	#4	9'-8"	—
w110(E)	160	#5	22'-9"	—
			Cu. Yd.	119.2
Concrete Superstructure (Approach Slab)			Cu. Yd.	26.0
Concrete Structures			Pound	46,260
Reinforcement Bars, Epoxy Coated				



DETAIL A
 (Detail A shown, applies to Highway Standard 420401 only. Detail A for pavement connector (HMA) may be found on Highway Standard 420406.)



SECTION B-B

** Cost included with Concrete Superstructure (Approach Slab).
 *** Per manufacturer recommendations

BASA-CIP-3944CS-0 5-15-2023

(Sheet 2 of 2)



USER NAME = eoskouf	DESIGNED - DTS	REVISED -
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

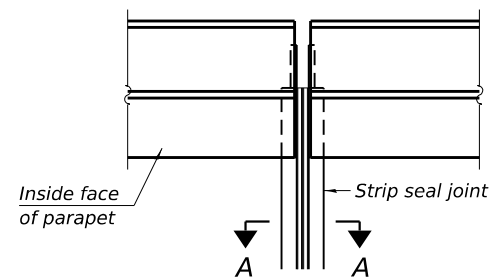
**APPROACH SLAB DETAILS
STRUCTURE NO. 099-8330**

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CONTRACT NO. 62R26				

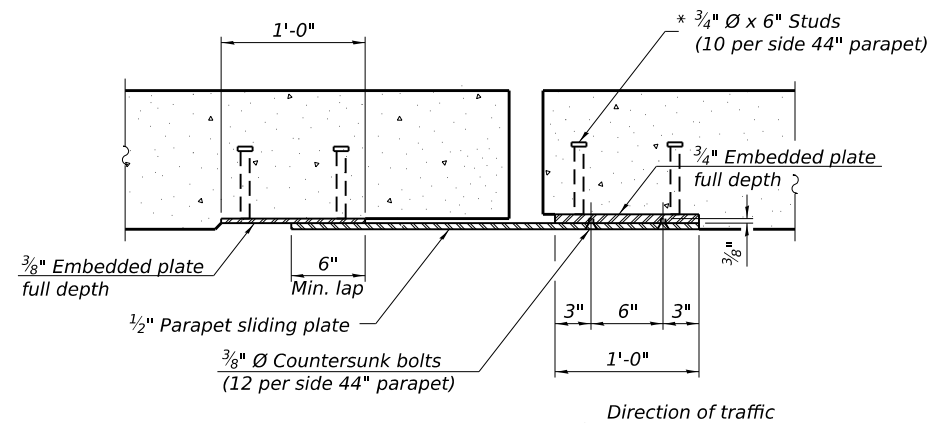
SHEET SB-12 OF SB-34 SHEETS

ILLINOIS FED. AID PROJECT

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PLAN AT PARAPET



SECTION B-B

NOTES

The strip seal shall be made continuous and shall have a minimum thickness of 1/4". The configuration of the strip seal shall match the configuration of the locking edge rails. Open or "webbed" strip seal gland configurations are not permitted. The gland shall be sized for a maximum rated movement of 4 inches.

The locking edge rails depicted are configured for typical applications and are conceptual only. The actual configuration of the locking edge rails and matching strip seal may vary from manufacturer to manufacturer provided they fit the application and meet the minimum anchorage shown. Flanged edge rails, however, will not be allowed. Locking edge rails may exceed the 4 1/2" maximum depth provided the anchorage system is revised according to the manufacturer's recommendation.

The manufacturer's recommended installation methods shall be followed.

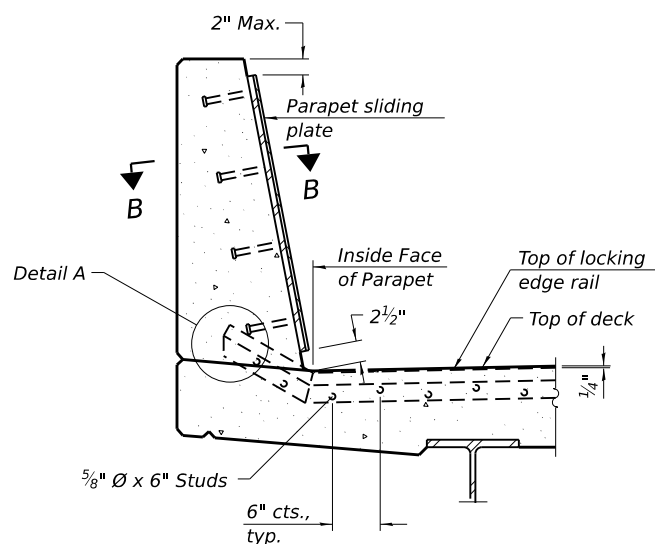
All steel components shall be galvanized after fabrication according to Article 520.03 of the Standard Specifications.

The Maximum space between locking edge rail segments shall be 3/16" and sealed with a suitable sealant; however, any rail joint within 10' measured perpendicular to the face of the curb or parapet shall be welded as shown in the locking edge rail splice detail.

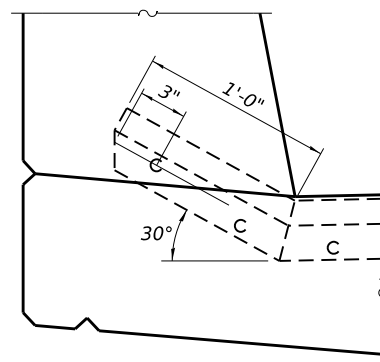
Cost of parapet sliding plates, embedded plates, and anchorage studs included with Preformed Joint Strip Seal.

39" constant slope barrier shown, 44" constant slope barrier similar as noted.

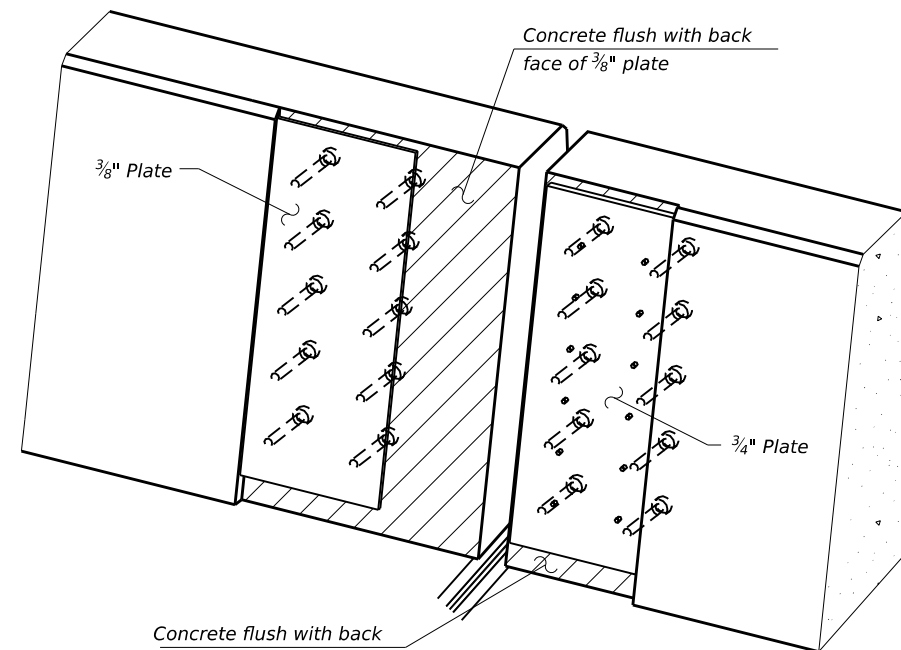
The concrete opening below the strip seal will vary based on the locking edge rail chosen by the Contractor. Deck and parapet lengths shown elsewhere in the plans are dimensioned to the concrete opening, not the joint opening, and are based on the rolled locking edge rail. If the Contractor elects to use a different locking edge rail, dimensional adjustments may be required. One exception to this would be the strip seal joint at the end of the precast bridge approach slab. For these cases the pavement connector length shall be adjusted, not the length of the bridge approach slab.



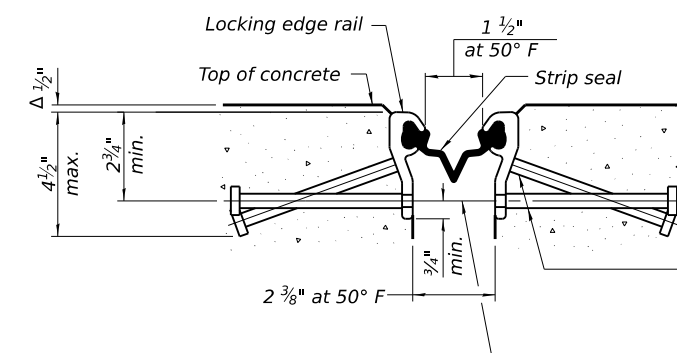
SECTION AT PARAPET



DETAIL A



TRIMETRIC VIEW
 (Showing embedded plates only)



SHOWING ROLLED RAIL JOINT

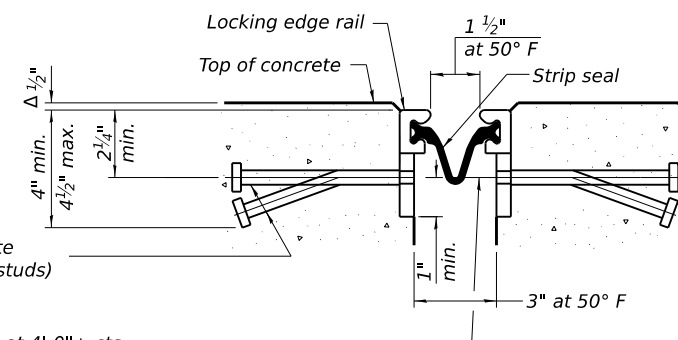
Δ Prior to Grinding

* 5/8" Ø x 6" studs @ 6" cts. (alternate angled/bent studs with horizontal studs)

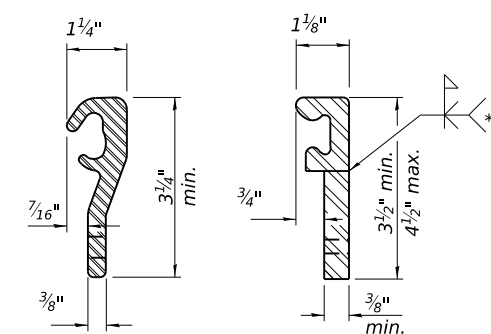
3/8" Ø threaded rods in 7/16" Ø holes at 4'-0" ± cts. for holding the proper joint opening based on the temperature during the deck pour. Place to miss studs. All rods shall be burned, or sawed off flush with the plates after concrete is set.

SECTION A-A

* Granular or solid flux filled headed studs conforming to Article 1006.32 of the Std. Specs., automatically end welded.

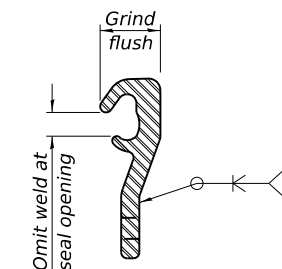


SHOWING WELDED RAIL JOINT



LOCKING EDGE RAILS

** Back gouge not required if complete joint penetration is verified by mock-up.



LOCKING EDGE RAIL SPLICE

The inside of the locking edge rail groove shall be free of weld residue. Rolled rail shown, welded rail similar.

**EAST ABUTMENT
 BILL OF MATERIAL**

Item	Unit	Total
Preformed Joint Strip Seal	Foot	46

**WEST ABUTMENT
 BILL OF MATERIAL**

Item	Unit	Total
Preformed Joint Strip Seal	Foot	46



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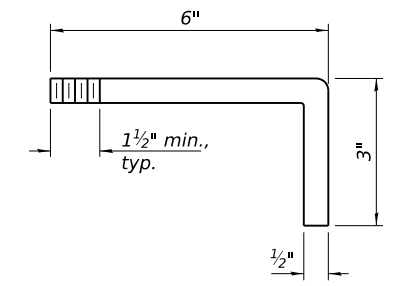
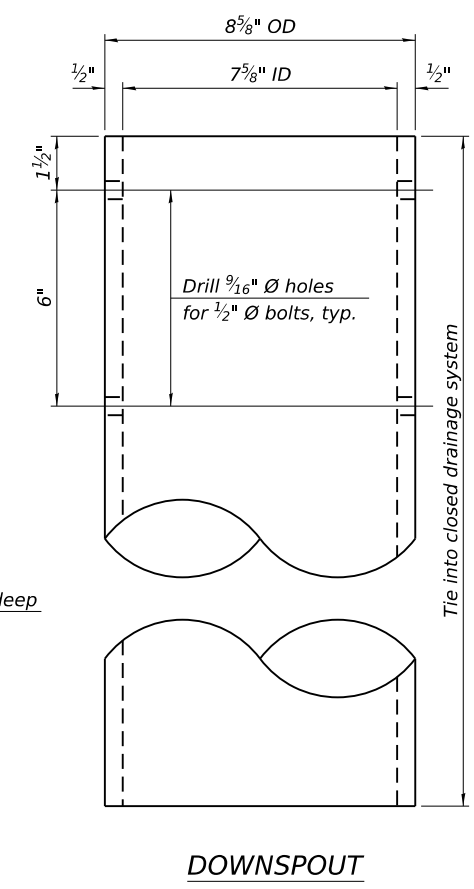
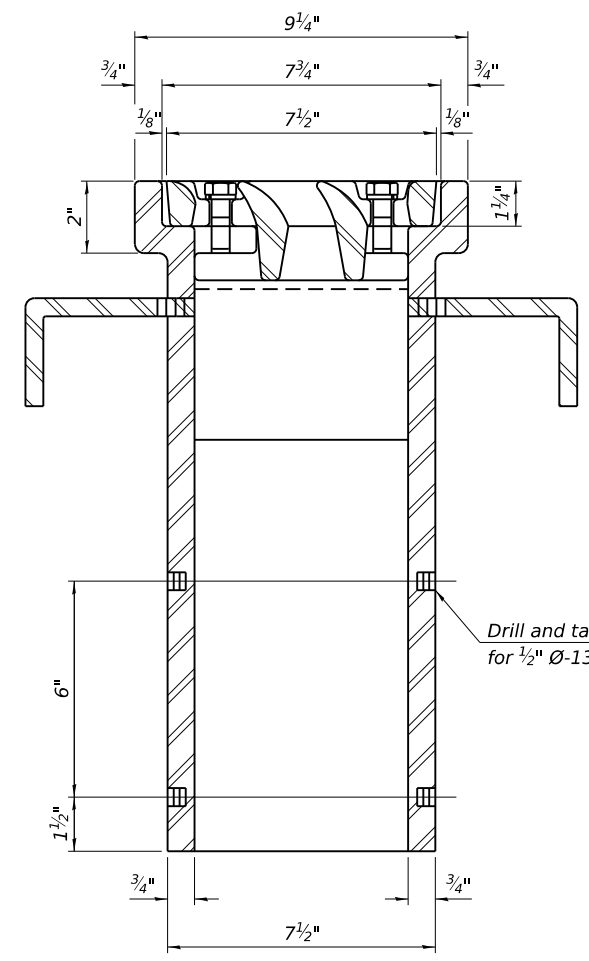
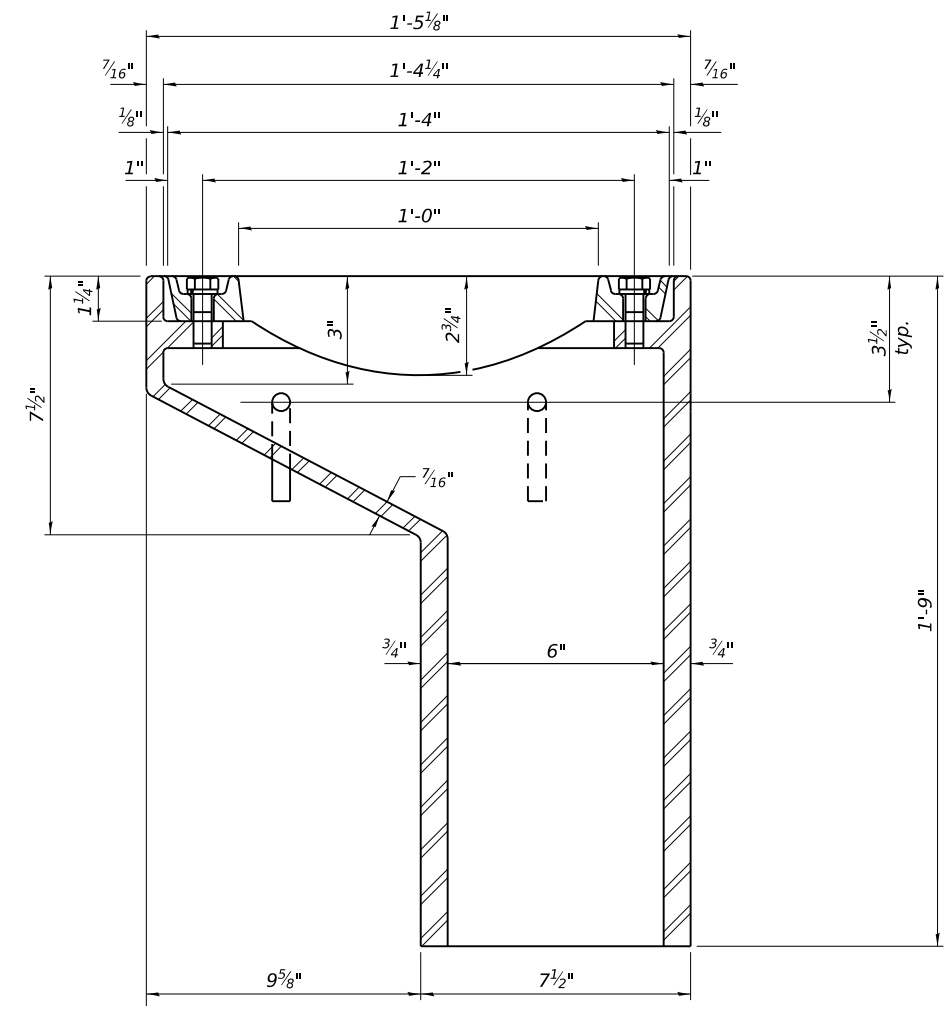
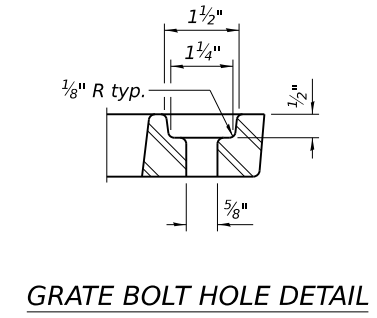
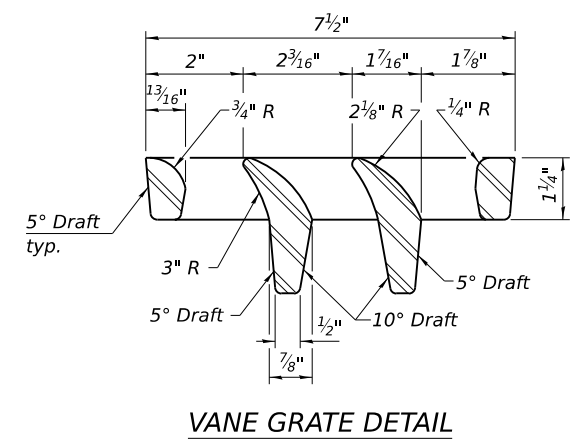
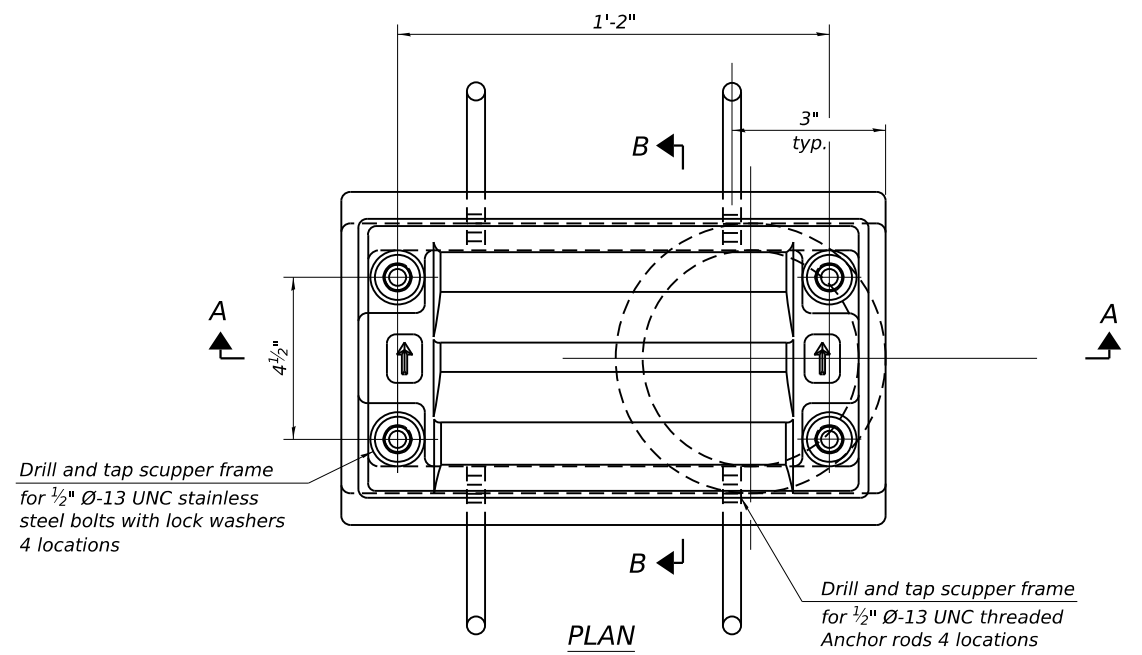
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PERFORMED JOINT STRIP SEAL
 STRUCTURE NO. 099-8330

SHEET SB-13 OF SB-34 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	FAI 80 21 STRUCTURE 5	WILL	525	363
CONTRACT NO. 62R26				
ILLINOIS FED. AID PROJECT				

MODEL: Sheet
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Notes:
 All cast iron parts shall be gray iron conforming to the requirements of AASHTO M105, Class 35B and AASHTO M306.
 Bolts, anchor rods, nuts and washers shall be according to ASTM A307 and shall be galvanized according to AASHTO M232. As an alternate stainless steel may be used.
 Stainless steel hardware shall be according to Article 1006.29(d) of the Standard Specifications.
 Structural steel weldments of equal sections and of the same configuration may be substituted for the cast iron scupper frames and downspouts; however, the scupper grates shall remain cast iron. Fillet or full penetration welds shall be used for the weldments. Details shall be submitted to the Engineer for approval.
 Structural steel scupper frames and downspouts, when utilized, shall be galvanized according to AASHTO M111.
 As an alternate, fiberglass may be used for downspouts according to ASTM D2996 with a short-time rupture strength hoop tensile stress of 30,000 psi min. in lieu of the cast iron or structural steel.
 Exterior surfaces of downspouts and exterior exposed surfaces of the scupper frame below deck shall be pigmented or painted to match the color of the adjacent beam.
 The Contractor shall take appropriate measures to assure that Protective Coat is not applied to the scupper.
 Cost of the grate, frame, downspout, anchor rods, nuts and washers including complete installation of the scupper shall be paid for at the contract unit price for Drainage Scuppers, DS-11.

BILL OF MATERIAL

ITEM	UNIT	TOTAL
Drainage Scuppers, DS-11	Each	2



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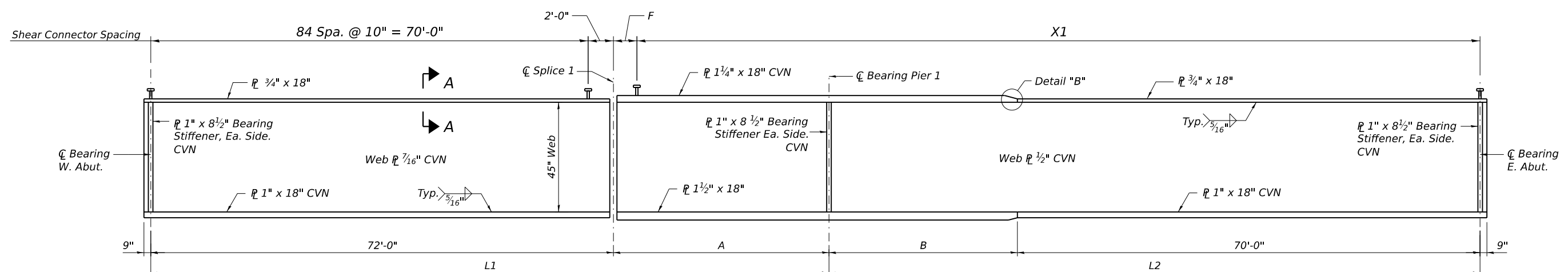
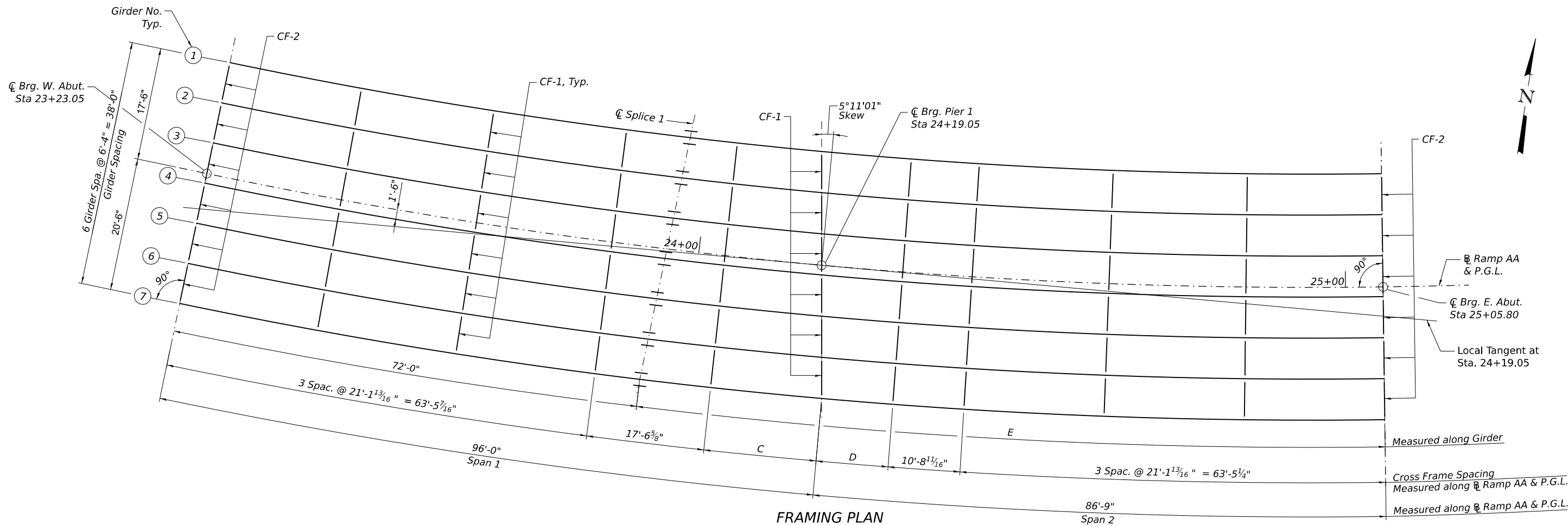
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DRAINAGE SCUPPER, DS-11
 STRUCTURE NO. 099-8330

SHEET SB-14 OF SB-34 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	FAI 80 21 STRUCTURE 5	WILL	525	364
CONTRACT NO. 62R26				
ILLINOIS FED. AID PROJECT				

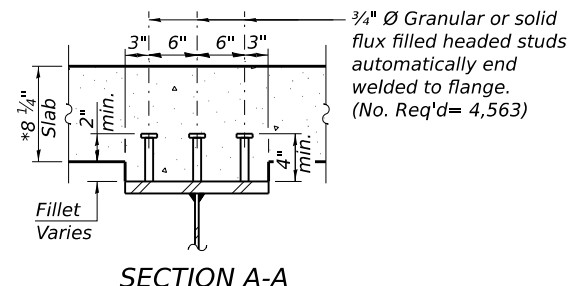
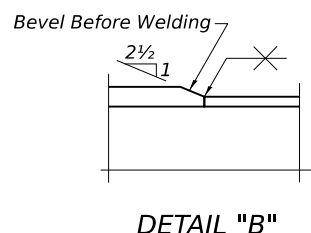
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GIRDER ELEVATION
 "CVN" denotes Charpy-V-Notch impact energy requirements, zone 2.

GIRDER DIMENSION TABLE

GIRDER	A	B	C	D	E	F	L1	L2	X1
1	20'-4 ³ / ₁₆ "	16'-6 ¹ / ₄ "	13'-1 ¹ / ₁₆ "	13'-10 ³ / ₄ "	106'-11 ¹ / ₁₆ "	1'-11 ¹ / ₁₆ "	92'-4 ¹³ / ₁₆ "	86'-6 ¹ / ₄ "	126 Spa @ 10"
2	21'-8 ⁷ / ₁₆ "	16'-7 ¹ / ₄ "	13'-9 ³ / ₈ "	13'-5"	108'-3 ¹¹ / ₁₆ "	1'-7 ¹ / ₁₆ "	93'-8 ⁷ / ₁₆ "	86'-7 ¹ / ₄ "	128 Spa @ 10"
3	23'-0 ¹ / ₁₆ "	16'-8 ¹ / ₄ "	14'-5 ³ / ₈ "	12'-11 ¹ / ₄ "	109'-8 ³ / ₁₆ "	1'-4 ³ / ₁₆ "	95'-0 ¹ / ₁₆ "	86'-8 ¹ / ₄ "	130 Spa @ 10"
4	24'-3 ¹¹ / ₁₆ "	16'-9 ¹ / ₄ "	15'-1 ⁷ / ₈ "	12'-5 ¹ / ₂ "	111'-0 ¹⁵ / ₁₆ "	1'-10 ¹⁵ / ₁₆ "	96'-3 ¹¹ / ₁₆ "	86'-9 ¹ / ₄ "	131 Spa @ 10"
5	25'-7 ³ / ₁₆ "	16'-10 ¹ / ₄ "	15'-10 ¹ / ₈ "	11'-11 ³ / ₄ "	112'-5 ⁹ / ₁₆ "	1'-7 ⁹ / ₁₆ "	97'-7 ³ / ₁₆ "	86'-10 ¹ / ₄ "	133 Spa @ 10"
6	26'-10 ¹ / ₁₆ "	16'-11 ¹ / ₄ "	16'-6 ³ / ₈ "	11'-6"	113'-10 ³ / ₁₆ "	1'-4 ³ / ₁₆ "	98'-10 ¹⁵ / ₁₆ "	86'-11 ¹ / ₄ "	135 Spa @ 10"
7	28'-2 ⁵ / ₈ "	17'-0 ¹ / ₄ "	17'-2 ³ / ₈ "	11'-0 ¹ / ₄ "	115'-2 ⁷ / ₈ "	1'-10 ⁷ / ₈ "	100'-2 ³ / ₈ "	87'-0 ¹ / ₄ "	136 Spa @ 10"



- NOTES:**
- See sheet SB-16 for girder cross frame details.
 - See sheet SB-17 for moment tables & reaction tables.
 - See sheet SB-18 for girder bolted field splice details, camber, & top of web elevations.
 - All flange plates, web plates, and bearing stiffeners shall be AASHTO M270 Grade 50 Steel.
 - Holes shall be field or shop drilled for bridge mounted sign support (See signing plans)



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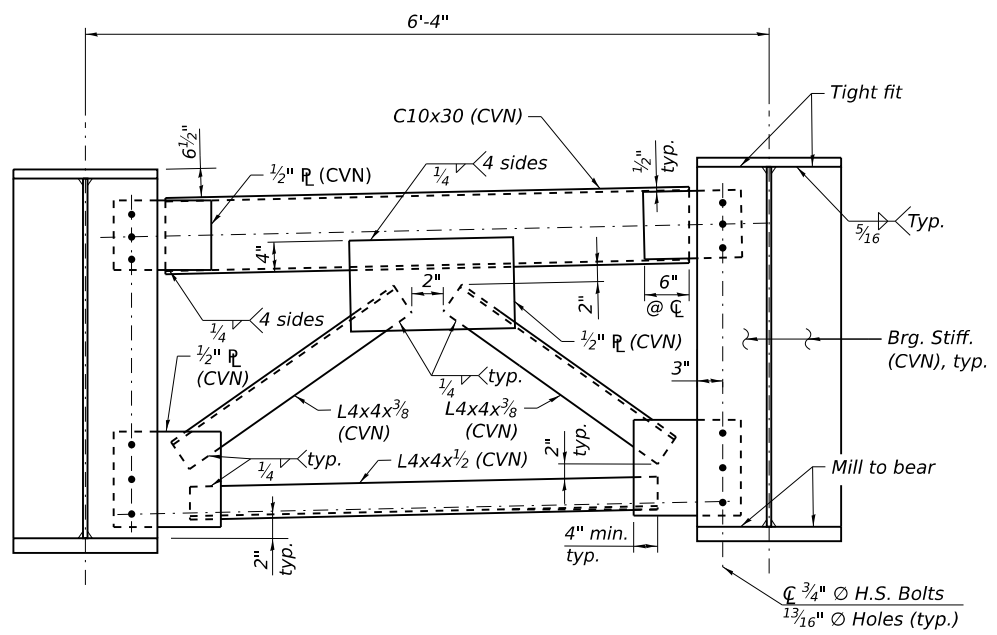
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 DEPARTMENT OF TRANSPORTATION

FRAMING PLAN AND GIRDER ELEVATION
 STRUCTURE NO. 099-8330

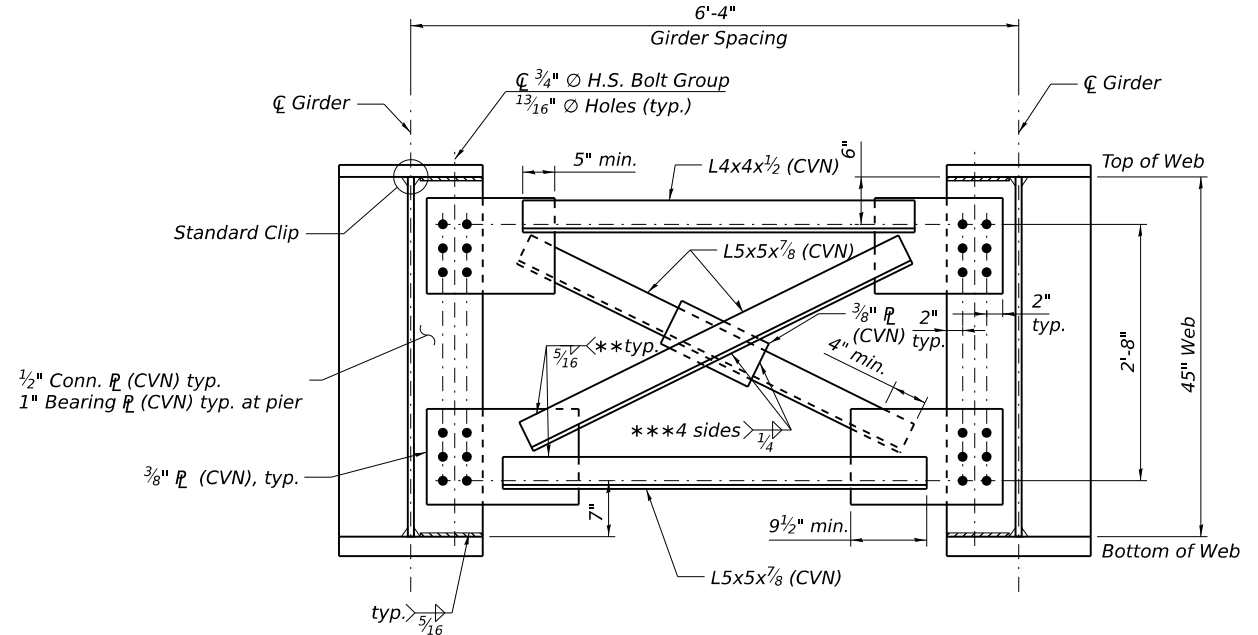
SHEET SB-15 OF SB-34 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	FAI 80 21 STRUCTURE 5	WILL	525	365
CONTRACT NO. 62R26				
ILLINOIS FED. AID PROJECT				

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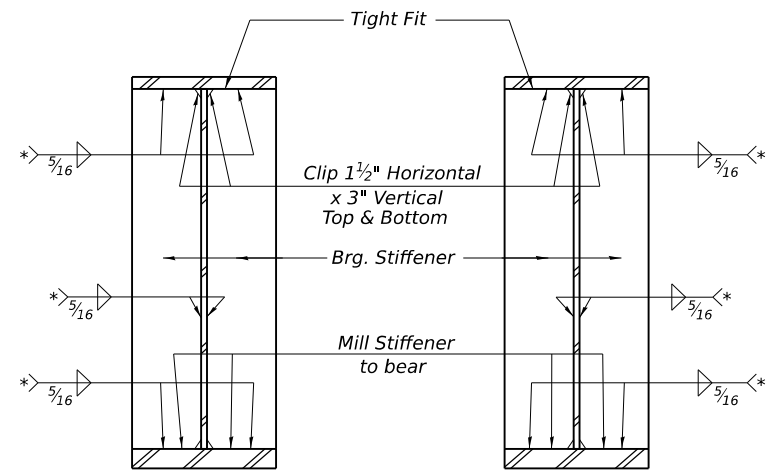


END CROSS FRAME (CF-2)
 (12 Required)



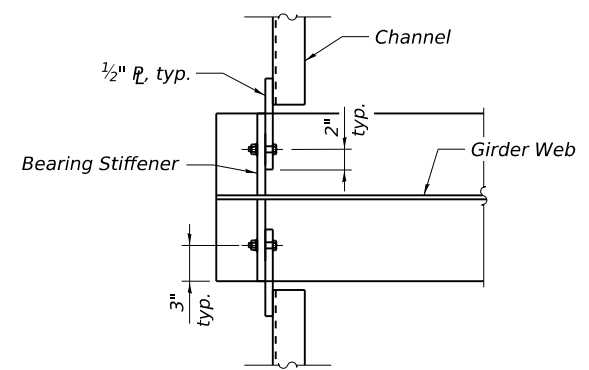
INTERIOR CROSS FRAME (CF-1)
 (54 Required)

** 3 sides, except weld all-around if galvanized
 *** If cross frames are galvanized, weld all-around

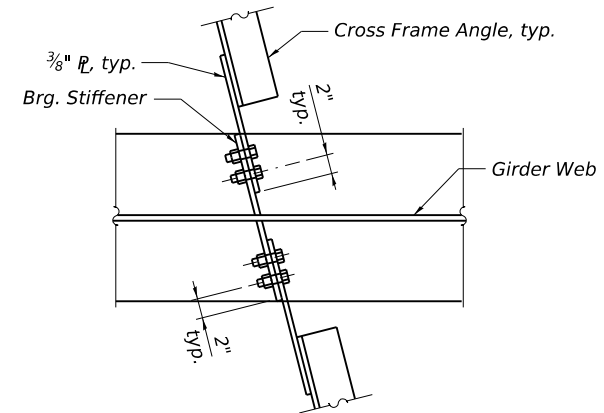


SECTION AT PIER **SECTION AT ABUTMENT**

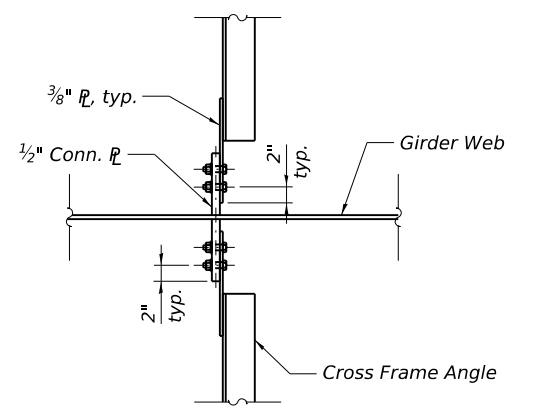
* Terminate 1/4" (±1/8") from the end of plate intersects.



END CROSS FRAME PLAN



INTERIOR CROSS FRAME PLAN AT PIER



INTERIOR CROSS FRAME PLAN

NOTES:

- All cross frames shall be installed as steel is erected and secured with erection pins and bolts with the erection plan approved by the Engineer. Individual cross frames at supports may be temporarily disconnected to install bearing anchor rods.
- Provide 13/16" Holes for 3/4" High Strength bolts, unless noted otherwise.
- No connection plate on exterior side of exterior girders.
- The Contractor shall either:
 - Ream cross frame connection holes during shop assembly, or
 - Provide detailing and fabrication controls acceptable to the Engineer which ensures accuracy such that field reaming will not exceed the amount permitted in Article 505.08(l) of the Standard Specifications.



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CROSS FRAMES
STRUCTURE NO. 099-8330

SHEET SB-16 OF SB-34 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	FAI 80 21 STRUCTURE 5	WILL	525	366
CONTRACT NO. 62R26				
ILLINOIS FED. AID PROJECT				

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EXTERIOR GIRDER 7 MOMENT TABLE				
		0.4 Sp. 1	Pier	0.6 Sp. 2
I_s	(in ⁴)	19,694	30,272	20,180
I_c (n)	(in ⁴)	50,272	---	51,520
I_c (3n)	(in ⁴)	36,615	---	37,282
I_c (cr)	(in ⁴)	---	36,387	---
S_s	(in ³)	918.14	1344.82	936.43
S_c (n)	(in ³)	1248.37	---	1290.90
S_c (3n)	(in ³)	1147.09	---	1179.06
S_c (cr)	(in ³)	---	1443	---
S_x	(in ³)	1126.70	1418.53	1195.40
DC1	(k/ft)	0.84	0.91	0.85
M_{DC1}	(kip-ft)	669	1110	374
DC2	(k/ft)	0.163	0.221	0.221
M_{DC2}	(kip-ft)	122	229	76
DW	(k/ft)	0.290	0.290	0.290
M_{DW}	(kip-ft)	231	360	131
LLDF		0.540	0.640	0.570
M_{k+im}	(kip-ft)	1391	1557	1111
f_s (Strength I)	(ksi)	4.43	1.89	4.98
$M_u + 1/3 f_s S_x$	(kip-ft)	5433	5832	4688
$\phi_f M_n$	(kip-ft)	---	---	---
f_{sDC1}	(ksi)	8.74	9.90	4.79
f_{sDC2}	(ksi)	1.28	1.90	0.77
f_{sDW}	(ksi)	2.42	2.99	1.33
$f_{s k+im}$	(ksi)	13.37	12.95	10.33
f_s (Service II)	(ksi)	3.33	1.40	3.75
$f_s + f_s/2$ (Service II)	(ksi)	31.48	32.34	22.20
Service II Resistance	(ksi)	47.5	47.5	47.5
$f_s + f_s/3$ (Total)(Strength I)	(ksi)	41.03	42.55	28.69
$\phi_f F_n$	(ksi)	50.00	50.00	50.00
V_r	(k)	60.78	79.98	49.24

INTERIOR GIRDER 6 MOMENT TABLE				
		0.4 Sp. 1	Pier	0.6 Sp. 2
I_s	(in ⁴)	19,694	30,272	20,180
I_c (n)	(in ⁴)	50,771	---	52,048
I_c (3n)	(in ⁴)	37,074	---	37,754
I_c (cr)	(in ⁴)	---	36,387	---
S_s	(in ³)	918.14	1344.82	936.43
S_c (n)	(in ³)	1251.44	---	1294.40
S_c (3n)	(in ³)	1151.37	---	1183.51
S_c (cr)	(in ³)	---	1443	---
S_x	(in ³)	1173.33	1418.51	1244.99
DC1	(k/ft)	0.86	0.94	0.87
M_{DC1}	(kip-ft)	627	1111	375
DC2	(k/ft)	0.163	0.163	0.163
M_{DC2}	(kip-ft)	119	197	72
DW	(k/ft)	0.290	0.290	0.290
M_{DW}	(kip-ft)	215	355	130
LLDF		0.578	0.578	0.588
M_{k+im}	(kip-ft)	1123	1226	980
f_s (Strength I)	(ksi)	1.07	1.48	1.57
$M_u + 1/3 f_s S_x$	(kip-ft)	3639	5013	3120
$\phi_f M_n$	(kip-ft)	---	---	---
f_{sDC1}	(ksi)	8.19	9.91	4.81
f_{sDC2}	(ksi)	1.24	1.64	0.73
f_{sDW}	(ksi)	2.24	2.95	1.32
$f_{s k+im}$	(ksi)	10.77	10.20	9.09
f_s (Service II)	(ksi)	0.79	1.10	1.17
$f_s + f_s/2$ (Service II)	(ksi)	26.07	28.31	19.25
Service II Resistance	(ksi)	47.5	47.50	47.50
$f_s + f_s/3$ (Total)(Strength I)	(ksi)	34.36	37.21	25.32
$\phi_f F_n$	(ksi)	50.00	50.00	50.00
V_r	(k)	39.87	46.76	44.62

EXTERIOR GIRDER 7 REACTION TABLE			
	W. Abut.	Pier	E. Abut.
LLDF	0.720	0.620	0.710
OCF	1	1	1
R_{DC1}	(k) 35.5	101.2	27.2
R_{DC2}	(k) 6.7	22.7	5.5
R_{DW}	(k) 12.1	33.4	9.1
R_k	(k) 67.1	109.8	63.3
R_{Im}	(k) 16.3	23.2	15.7
R_{Total} (Strength I)(Impact)	(k) 216.6	437.8	192.7
R_{Total} (Strength I)(No Impact)	(k) 188.2	397.2	165.2

INTERIOR GIRDER 6 REACTION TABLE			
	W. Abut.	Pier	E. Abut.
LLDF	0.578	0.578	0.588
OCF	1	1	1
R_{DC1}	(k) 34.4	113.0	27.3
R_{DC2}	(k) 6.2	20.3	4.9
R_{DW}	(k) 11.2	36.5	8.9
R_k	(k) 52.3	99.1	48.5
R_{Im}	(k) 12.8	20.5	12.0
R_{Total} (Strength I)(Impact)	(k) 181.5	430.9	159.4
R_{Total} (Strength I)(No Impact)	(k) 159.1	394.9	138.3

I_s, S_s : Non-composite moment of inertia and section modulus of the steel section used for computing f_s (Total-Strength I, and Service II) due to non-composite dead loads (in⁴ and in³).
 I_c (n), S_c (n): Composite moment of inertia and section modulus of the steel and deck based upon the modular ratio, "n", used for computing f_s (Total-Strength I, and Service II) in uncracked sections due to short-term composite live loads (in⁴ and in³).
 I_c (3n), S_c (3n): Composite moment of inertia and section modulus of the steel and deck based upon 3 times the modular ratio, "3n", used for computing f_s (Total-Strength I, and Service II) in uncracked sections, due to long-term composite (superimposed) dead loads (in⁴ and in³).
 I_c (cr), S_c (cr): Composite moment of inertia and section modulus of the steel and longitudinal deck reinforcement, used for computing f_s (Total-Strength I and Service II) in cracked sections, due to both short-term composite live loads and long-term composite (superimposed) dead loads (in⁴ and in³).
 S_x : Section modulus about the major axis of section to the controlling flange, tension or compression, taken as yield moment with respect to the controlling flange over the yield strength of the controlling flange (in³).
 DC1: Un-factored non-composite dead load (kips/ft.).
 M_{DC1} : Un-factored moment due to non-composite dead load (kip-ft.).
 DC2: Un-factored long-term composite (superimposed excluding future wearing surface) dead load (kips/ft.).
 M_{DC2} : Un-factored moment due to long-term composite (superimposed excluding future wearing surface) dead load (kip-ft.).
 DW: Un-factored long-term composite (superimposed future wearing surface only) dead load (kips/ft.).
 M_{DW} : Un-factored moment due to long-term composite (superimposed future wearing surface only) dead load (kip-ft.).
 M_{k+im} : Un-factored live load moment plus dynamic load allowance (impact) (kip-ft.).
 f_s (Strength I): Factored calculated flange lateral bending stress as calculated using Article 6.10.1.6 and as further simplified by IDOT provisions (ksi)
 M_u (Strength I): Strength I load combination of factored design moments (kip-ft.).
 $1.25 (M_{DC1} + M_{DC2}) + 1.5 M_{DW} + 1.75 M_{k+im}$
 $\phi_f M_n$: Factored nominal flexural resistance of the section determined as specified in Article 6.10.7.1 or A6 as applicable (kip-ft.).
 f_{sDC1} : Un-factored stress at edge of flange for controlling steel flange due to vertical non-composite dead loads as calculated below (ksi).
 M_{DC1} / S_s
 f_{sDC2} : Un-factored stress at edge of flange for controlling steel flange due to vertical composite dead loads as calculated below (ksi).
 M_{DC2} / S_c (3n) or M_{DC2} / S_c (cr) as applicable.
 f_{sDW} : Un-factored stress at edge of flange for controlling steel flange due to vertical composite future wearing surface loads as calculated below (ksi).
 M_{DW} / S_c (3n) or M_{DW} / S_c (cr) as applicable.
 $f_{s k+im}$: Un-factored stress at edge of flange for controlling steel flange due to vertical composite live load plus impact loads as calculated below (ksi).
 M_{k+im} / S_c (n) or M_{k+im} / S_c (cr) as applicable.
 $f_s + f_s/2$ (Service II): Sum of stresses as computed below (ksi).
 $f_{sDC1} + f_{sDC2} + f_{sDW} + 1.3 f_{s k+im} + f_s/2$
 Service II Resistance: Composite (0.95R_f) or noncomposite (0.80R_f) stress capacity according to Article 6.10.4.2 (ksi).
 $f_s + f_s/3$ (Total)(Strength I): Sum of stresses as computed below on non-compact section (ksi).
 $1.25 (f_{sDC1} + f_{sDC2}) + 1.5 f_{sDW} + 1.75 f_{s k+im} + f_s/3$
 $\phi_f F_n$: Factored nominal flexural resistance of the section as specified in Article 6.10.7.2 or 6.10.8 as applicable (ksi).
 V_r : Maximum factored shear range in span computed according to Article 6.10.10.
 LLDF: Live Load Distribution Factor for moment and shear computed according to Article 4.6.2.2. and further IDOT provisions (set to equate to grillage analysis).
 OCF: Obtuse Correction Factor according to Article 4.6.2.2.3c or as further simplified by IDOT provisions.
 R_{DC1} : Un-factored reaction due to non-composite dead load (kip).
 R_{DC2} : Un-factored reaction due to long term composite (superimposed excluding future wearing surface) dead load (kip).
 R_{DW} : Un-factored reaction due to long-term composite (superimposed future wearing surface only) dead load (kip).
 R_k : Un-factored live load reaction (kip).
 R_{Im} : Un-factored dynamic load allowance (impact) (kip).
 R_{Total} (Strength I)(Impact): Strength I load combination of factored design reactions (kip).
 $1.25 (R_{DC1} + R_{DC2}) + 1.5 R_{DW} + 1.75 R_{k+im}$
 R_{Total} (Strength I)(No Impact): Strength I load combination of factored design reactions, not including dynamic load allowance (impact) (kip).
 $1.25 (R_{DC1} + R_{DC2}) + 1.5 R_{DW} + 1.75 R_k$



USER NAME = eoskou	DESIGNED - MNL	REVISED -
PLOT SCALE =	CHECKED - DTS	REVISED -
PLOT DATE = 7/18/2024	DRAWN - MNL	REVISED -
	CHECKED - DTS	REVISED -

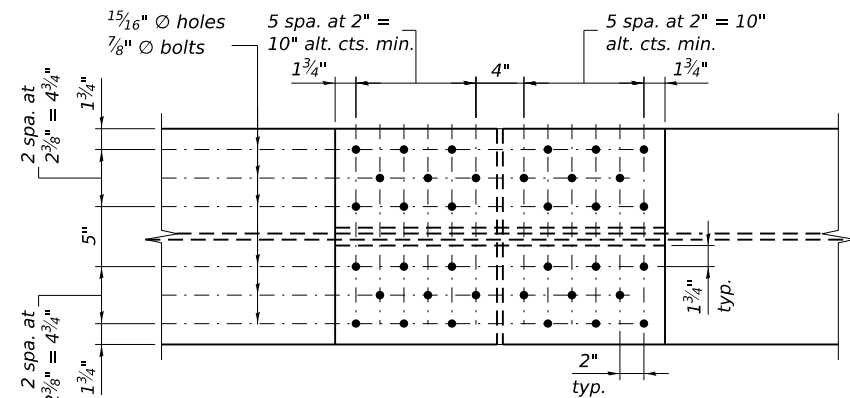
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MOMENT AND REACTION TABLE
STRUCTURE NO. 099-8330

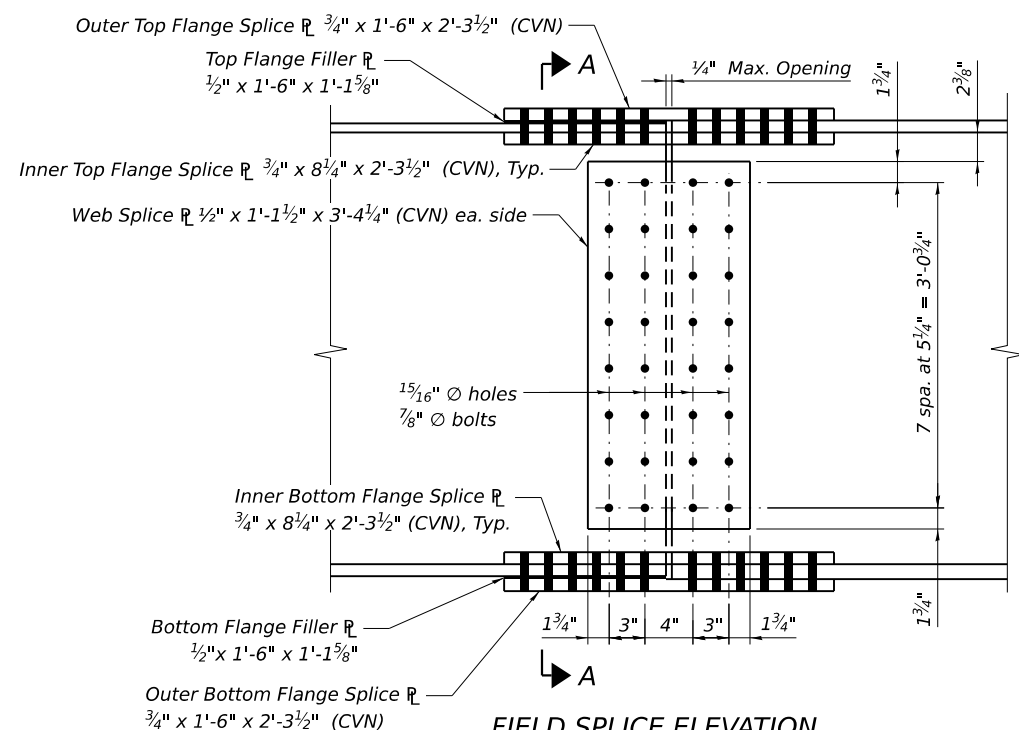
SHEET SB-17 OF SB-34 SHEETS

F.A.I. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	FAI 80 21 STRUCTURE 5	WILL	525	367
CONTRACT NO. 62R26				
		ILLINOIS	FED. AID PROJECT	

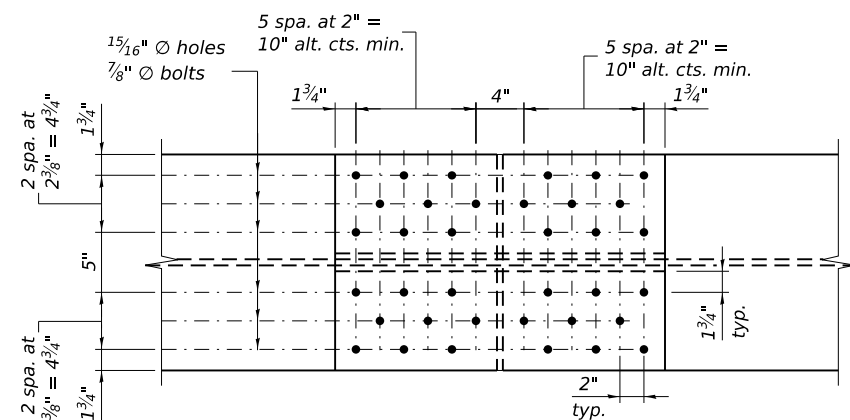
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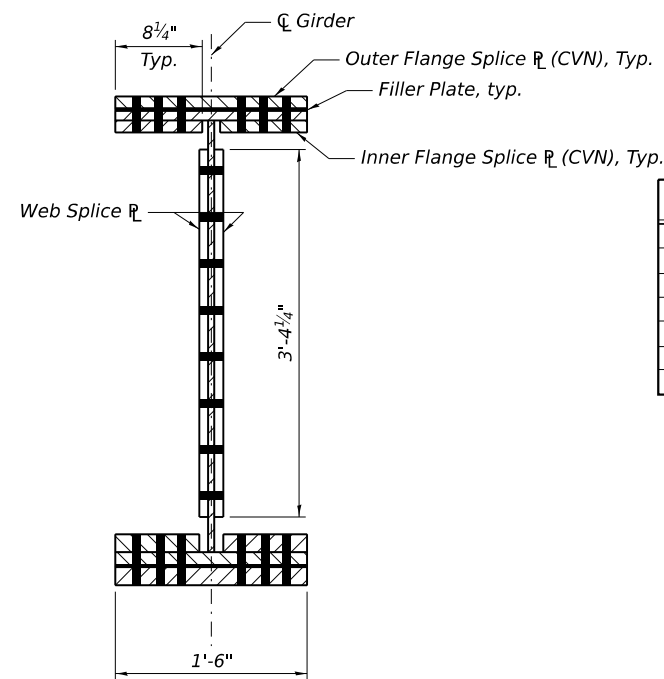
PLAN - TOP FLANGE SPLICE PLATE
 (36 bolts per top flange splice)



FIELD SPLICE ELEVATION
 (32 bolts per web splice, No. Splices Req'd = 7)



PLAN - BOTTOM FLANGE SPLICE PLATE
 (36 bolts per bottom flange splice)



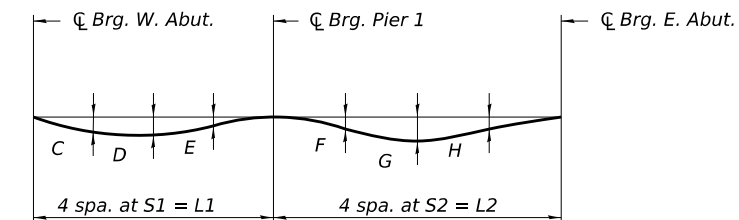
SECTION A-A

NOTE:
 Splice plates are to be AASHTO M270, Grade 50 (CVN). "CVN" denotes Charpy-V-Notch impact energy requirements, zone 2.

TOP OF WEB ELEVATIONS

(For fabrication only)

BEAM	℄ Brg. W. Abut.	Field Splice 1	℄ Brg. Pier 1	℄ Brg. E. Abut.
1	605.35	605.15	604.98	603.88
2	605.73	605.54	605.36	604.26
3	606.11	605.93	605.74	604.64
4	606.49	606.32	606.12	605.02
5	606.87	606.71	606.50	605.40
6	607.25	607.11	606.88	605.78
7	607.63	607.50	607.26	606.16

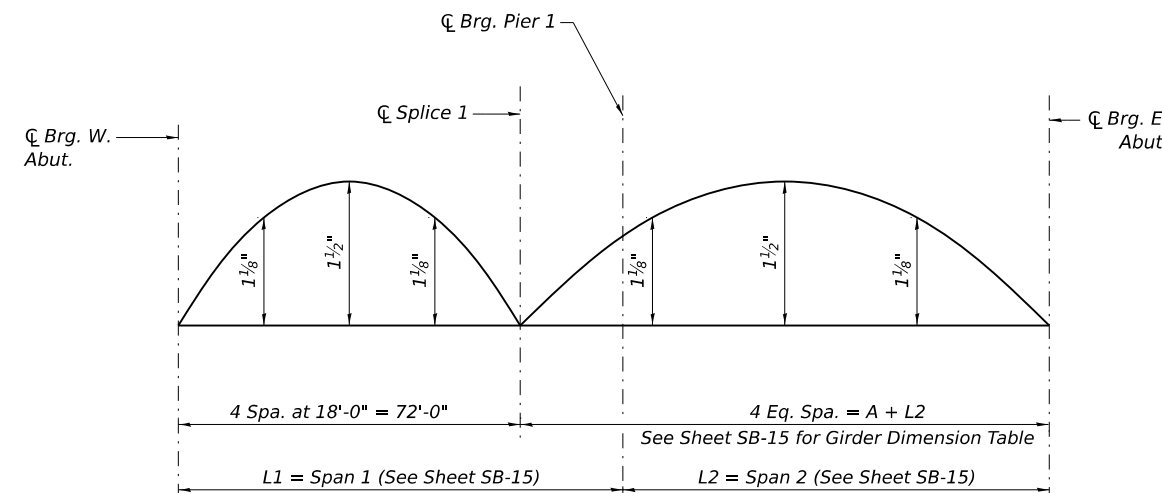


STEEL SELF WEIGHT DEFLECTION DIAGRAM

DIMENSIONS

Screed Line	C	D	E	F	G	H	L1	L2	S1	S2
G1	1/8"	1/4"	1/8"	0"	1/8"	1/8"	92'-4 ¹³ / ₁₆ "	86'-6 ¹ / ₄ "	23'-1 ³ / ₁₆ "(+)	21'-7 ⁹ / ₁₆ "
G2	1/8"	1/4"	1/8"	0"	1/8"	1/8"	93'-8 ⁷ / ₁₆ "	86'-7 ¹ / ₄ "	23'-5 ¹ / ₈ "(-)	21'-7 ¹³ / ₁₆ "
G3	1/4"	1/4"	1/8"	0"	1/8"	1/8"	95'-0 ¹ / ₁₆ "	86'-8 ¹ / ₄ "	23'-9"	21'-8 ¹ / ₁₆ "
G4	1/4"	1/4"	1/8"	0"	1/8"	1/8"	96'-3 ¹¹ / ₁₆ "	86'-9 ¹ / ₄ "	24'-0 ¹⁵ / ₁₆ "(-)	21'-8 ⁵ / ₁₆ "
G5	1/4"	1/4"	1/8"	0"	1/8"	1/8"	97'-7 ⁵ / ₁₆ "	86'-10 ¹ / ₄ "	24'-4 ³ / ₁₆ "(+)	21'-8 ⁹ / ₁₆ "
G6	1/4"	3/8"	1/8"	0"	1/8"	1/8"	98'-10 ¹⁵ / ₁₆ "	86'-11 ¹ / ₄ "	24'-8 ³ / ₄ "(-)	21'-8 ¹³ / ₁₆ "
G7	1/4"	3/8"	1/8"	0"	1/8"	1/8"	100'-2 ⁹ / ₈ "	87'-0 ¹ / ₄ "	25'-0 ³ / ₈ "(+)	21'-9 ¹ / ₁₆ "

The calculated deflections of the primary girders under steel self-weight shall be used to detail the cross frames and to erect the structural steel such that the girders will be plumb within a tolerance of ± 1/8" per vertical ft. throughout when supporting their own weight.



CAMBER DIAGRAM



USER NAME = eoskouf	DESIGNED - MNL	REVISED -
PLOT SCALE =	CHECKED - CRS	REVISED -
PLOT DATE = 7/18/2024	DRAWN - MNL	REVISED -
	CHECKED - CRS	REVISED -

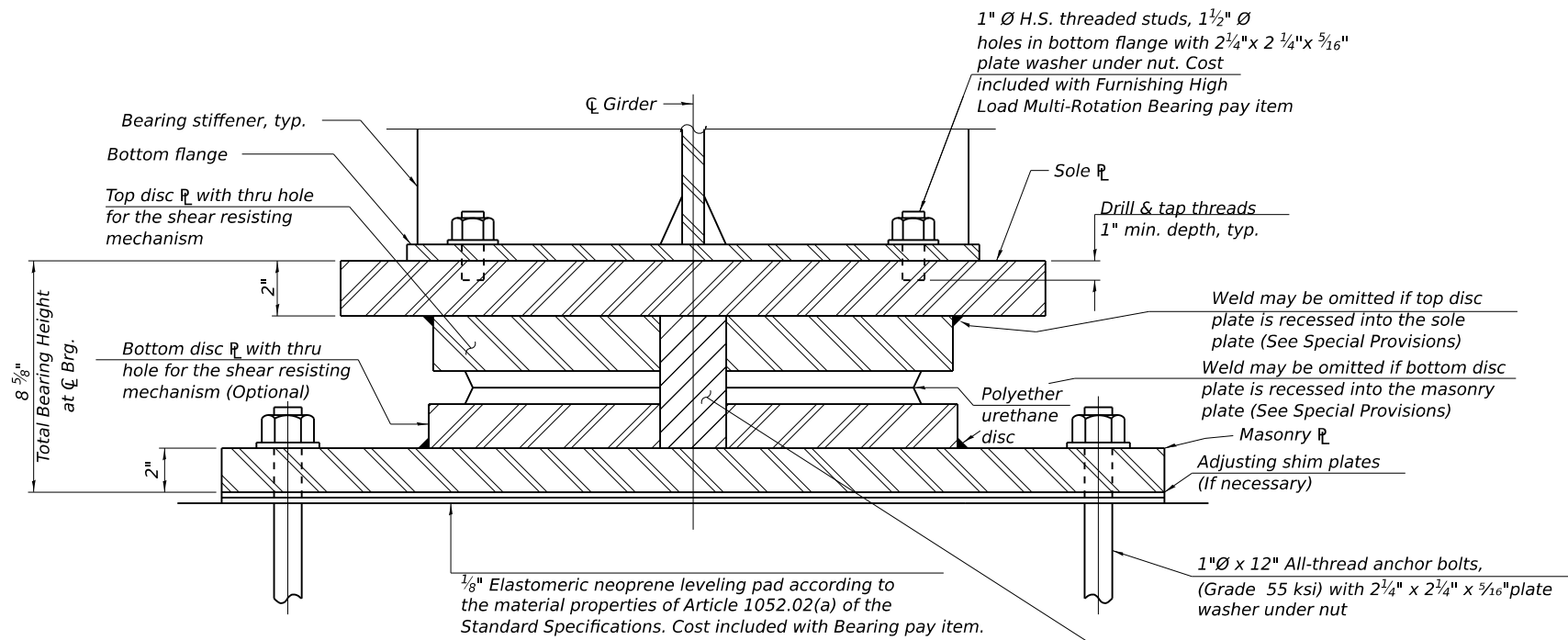
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SPLICE AND CAMBER DETAILS
 STRUCTURE NO. 099-8330

SHEET SB-18 OF SB-34 SHEETS

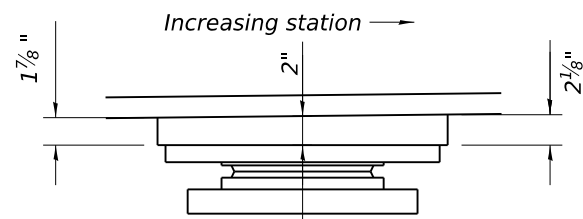
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	FAI 80 21 STRUCTURE 5	WILL	525	368
CONTRACT NO. 62R26				
ILLINOIS		FED. AID PROJECT		

MODEL: Default
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 PROJECT: 2018/CH401/401180022/01-Structures/0998330-1-55 Ramp, AA Over-1-55/Final/0998330-62R26-019-Fixed HLMR Disc Bearing Details.dgn
 SHEET: 0998330-62R26-019-Fixed HLMR Disc Bearing Details.dgn



SECTION THRU BEARING

(C Bearing)



TAPERED TOP PLATE

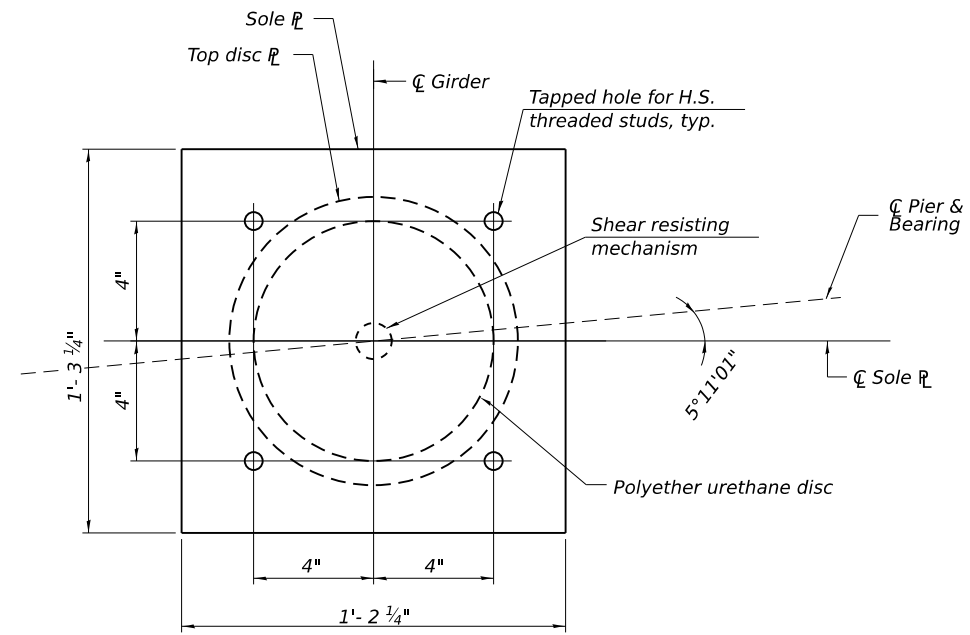
DESIGN DATA

Unfactored Vertical Dead Load Reaction (R_{DC})	133 kips
Unfactored Vertical Wearing Surface Reaction (R_{DW})	37 kips
Unfactored Vertical Live Load without Impact Reaction (R_{LL})	99 kips
Maximum Strength or Extreme Event Lateral Reaction (H_u)	34 kips
*Maximum Strength Limit State Rotation (θ_u according to Article 14.4.2.2)	0.014 rad
Unfactored Design Thermal Movement from 50° F (ΔT)	0 in.
Service I Factored Lateral Reaction	14.92 kips
Service I Take Out Limit Rotation	0.002 rad
Service I Factored Vertical Reaction	269 kips
Strength I Factored Vertical Reaction	395 kips

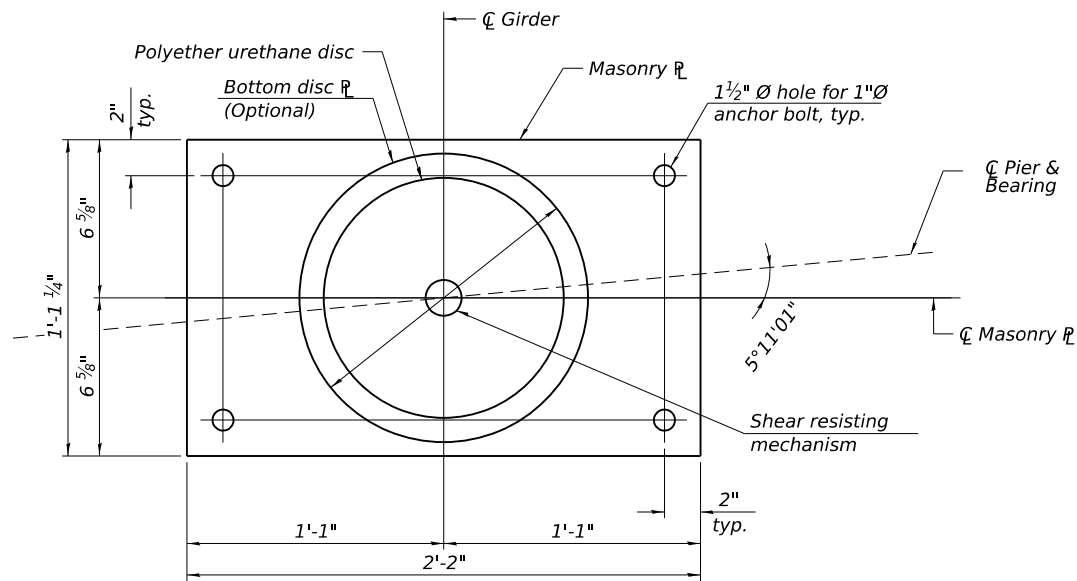
Service I Load Factors = 1.0DC + 1.0DW + 1.0LL
 Strength I Load Factors = 1.25DC + 1.5DW + 1.75LL + 1.2TU
 Extreme Event Load Factors = 1.0EQ

NOTES:

- Two 1/8 in. adjusting shims shall be provided for each bearing in addition to all other plates or shims and placed as shown on bearing details. Shim plates not included in total bearing height. Cost included with bearing pay item.
- Total bearing height is estimated based on manufacturer data. Actual bearing height may differ from contract plans. The Contractor shall be responsible for verifying bearing heights and adjusting seat elevations, if required, prior to placing pier concrete.
- All (embedded and separate) bearing plates, anchor bolts, nuts, washers and pintles shall be galvanized according to AASHTO M111 or M232 applicable.



SOLE PLATE AND TOP DISC PLATE PLAN



MASONRY PLATE AND BOTTOM DISC PLATE PLAN

BILL OF MATERIAL

Item	Unit	Total
** High Load Multi-Rotational Bearings, Disc, Fixed-300k	Each	7
Anchor Bolts, 1"	Each	28

** The value specified in the pay item name is an approximate vertical load capacity that is use for letting and bidding purposes only. Exact bearing capacity will vary subject to manufacturer design.

HLMR-D-F

5/15/2023



USER NAME = eoskouf	DESIGNED - PK	REVISED -
PLOT SCALE =	CHECKED - JZ	REVISED -
PLOT DATE = 7/18/2024	DRAWN - PK	REVISED -
	CHECKED - JZ	REVISED -

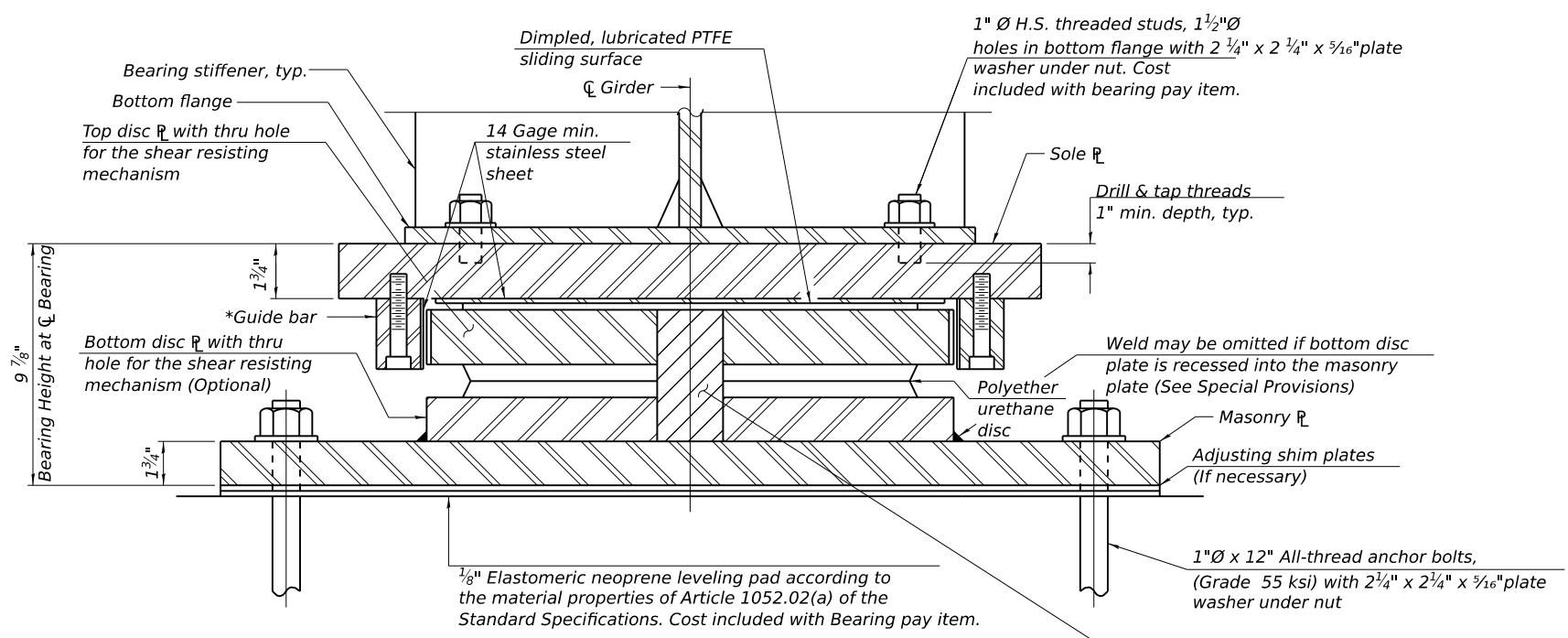
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FIXED HLMR DISC BEARING DETAILS
STRUCTURE NO. 099-8330

SHEET SB-19 OF SB-34 SHEETS

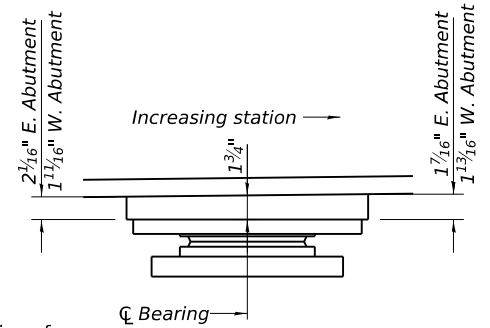
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	FAI 80 21 STRUCTURE 5	WILL	525	369
CONTRACT NO. 62R26				
ILLINOIS FED. AID PROJECT				

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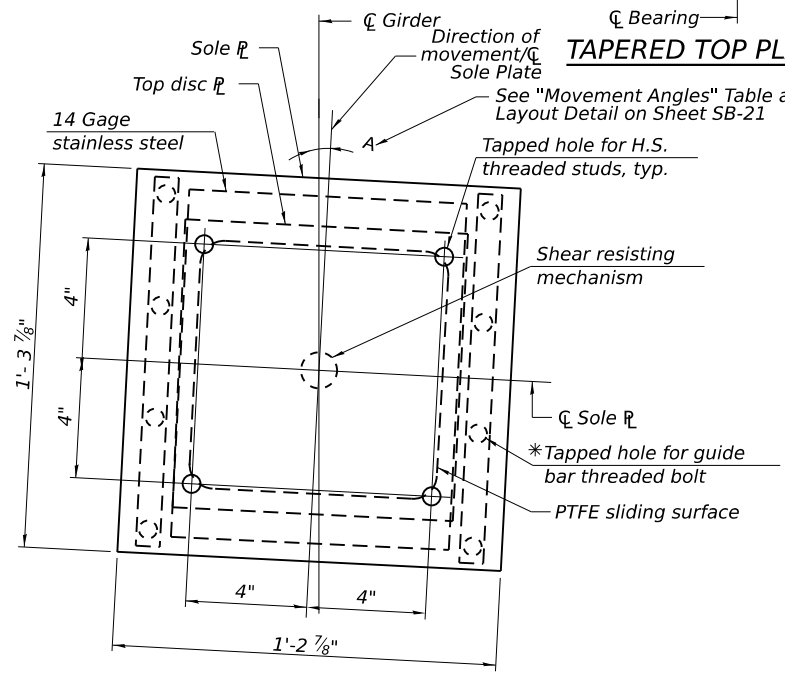


SECTION THRU BEARING
(CL Bearing)

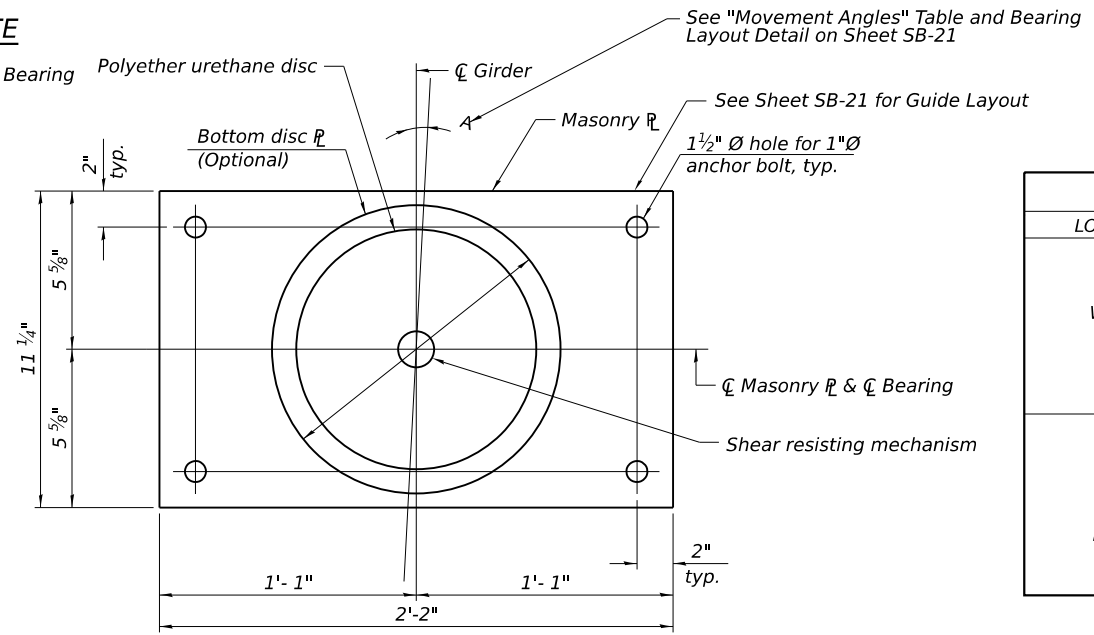
* As alternates to the bolted connection shown, the guide bars may be connected to the sole plate by groove welds or the guide bars and sole plate may be fabricated as a single piece.



TAPERED TOP PLATE



SOLE PLATE AND TOP DISC PLATE PLAN

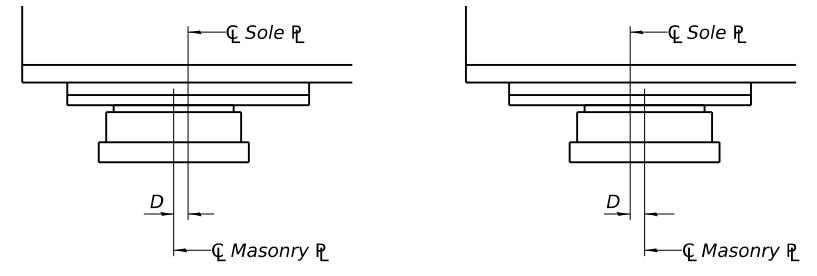


MASONRY PLATE AND BASE CYLINDER PLAN

DESIGN DATA

Unfactored Vertical Dead Load Reaction (R _{DC})	42 kips
Unfactored Vertical Wearing Surface Reaction (R _{DW})	12 kips
Unfactored Vertical Live Load without Impact Reaction (R _{LL})	67 kips
Maximum Strength or Extreme Event Lateral Reaction (H _U)	13 kips
Maximum Strength Limit State Rotation (Θ according to Article 14.4.2.2)	0.019 rad
Unfactored Design Thermal Movement from 50° F (ΔT)	0.524 in.
Service I Factored Lateral Reaction	8.51 kips
Service I Rotation	0.0052 rad
Strength I Factored Longitudinal Movement	0.629 in.
Service I Factored Vertical Reaction	121 kips
Strength I Factored Vertical Reaction	188 kips

Service I Load Factors = 1.0DC + 1.0DW + 1.00LL
 Strength I Load Factors = 1.25DC + 1.5DW + 1.75LL + 1.2TU
 Extreme Event Load Factors = 1.0EQ



SETTING ANCHOR BOLTS AT EXPANSION BEARING
 D = 1/8 inch per each 100' of expansion for every 15° temp. change from the normal temp. of 50° F.

NOTES:

- Two 1/8 in. adjusting shims shall be provided for each bearing in addition to all other plates or shims and placed as shown on bearing details. Shim plates not included in total bearing height. Cost included with bearing pay item.
- Total bearing height is estimated based on manufacturer data. Actual bearing height may differ from contract plans. The Contractor shall be responsible for verifying bearing heights and adjusting seat elevations, if required, prior to placing pier concrete.
- All (embedded and separate) bearing plates, anchor bolts, nuts, washers and pintles shall be galvanized according to AASHTO M111 or M232 applicable.

MOVEMENT ANGLES

LOCATION	GIRDER	A
W. ABUT.	1	03°14'17"
	2	03°15'30"
	3	03°16'43"
	4	03°17'54"
	5	03°19'04"
	6	03°20'13"
	7	03°21'21"
E. ABUT.	1	03°01'55"
	2	03°0'42"
	3	02°59'29"
	4	02°58'18"
	5	02°57'08"
	6	02°55'59"
	7	02°54'50"

BILL OF MATERIAL

Item	Unit	Total
** High Load Multi-Rotational Bearings, Disc, Guided Expansion-200k	Each	14
Anchor Bolts, 1"	Each	56

** The value specified in the pay item name is an approximate vertical load capacity that is use for letting and bidding purposes only. Exact bearing capacity will vary subject to manufacturer design.

HLMR-D-GE 5/15/2023



USER NAME = eoskou	DESIGNED - PK	REVISED -
PLOT SCALE =	CHECKED - JZ	REVISED -
PLOT DATE = 7/18/2024	DRAWN - PK	REVISED -
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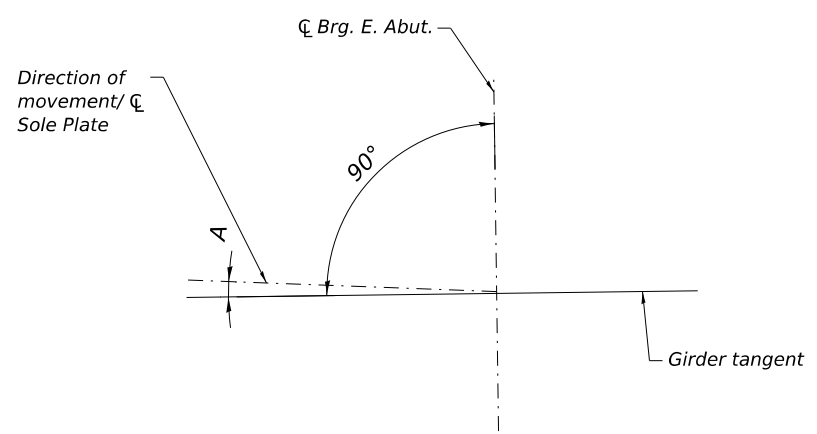
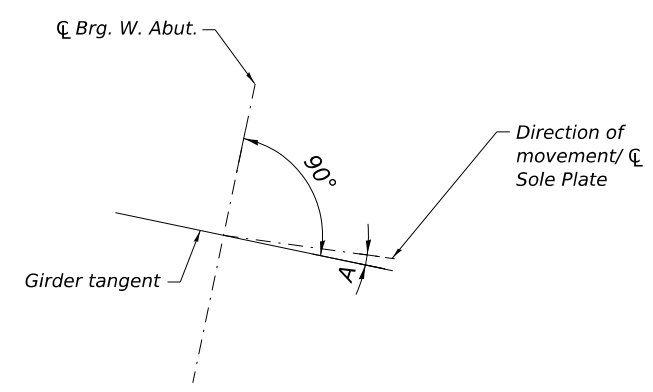
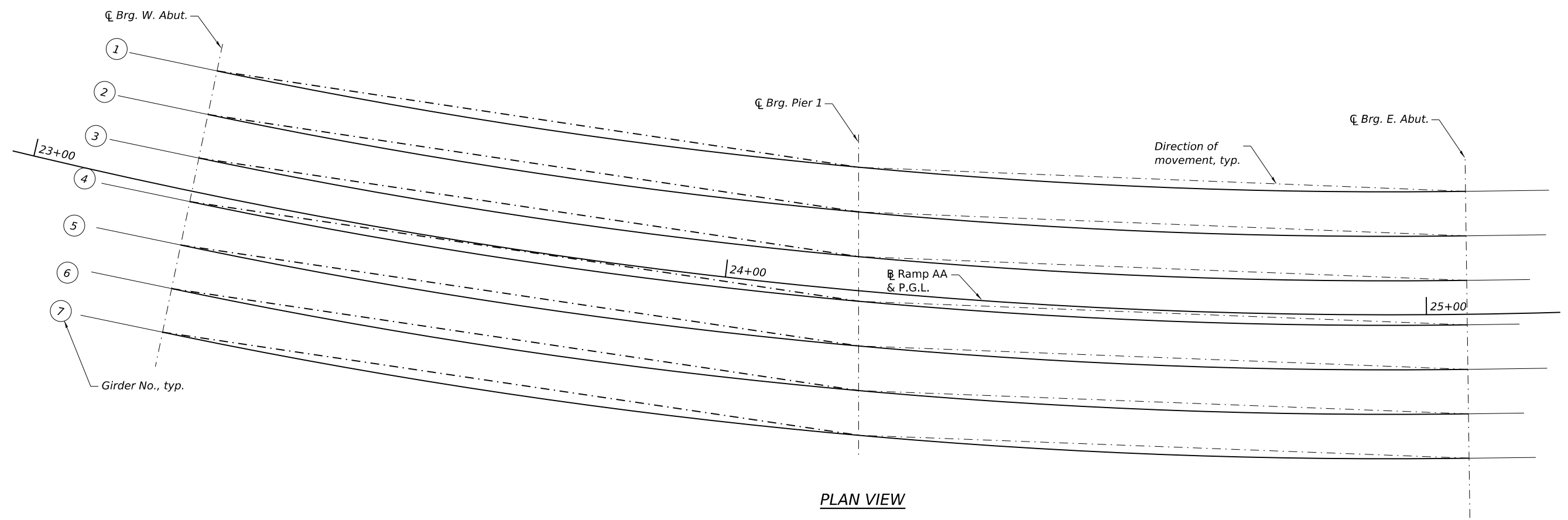
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXPANSION HLMR DISC BEARING DETAILS
STRUCTURE NO. 099-8330

SHEET SB-20 OF SB-34 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	FAI 80 21 STRUCTURE 5	WILL	525	370
CONTRACT NO. 62R26				
ILLINOIS FED. AID PROJECT				

MODEL: Default
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MOVEMENT ANGLES		
LOCATION	GIRDER	A
W. ABUT.	1	03°14'17"
	2	03°15'30"
	3	03°16'43"
	4	03°17'54"
	5	03°19'04"
	6	03°20'13"
	7	03°21'21"
E. ABUT.	1	03°01'55"
	2	03°0'42"
	3	02°59'29"
	4	02°58'18"
	5	02°57'08"
	6	02°55'59"
	7	02°54'50"



USER NAME = eoskou	DESIGNED - SD	REVISED -
PLOT SCALE =	CHECKED - DTS	REVISED -
PLOT DATE = 7/18/2024	DRAWN - SD	REVISED -
	CHECKED - DTS	REVISED -

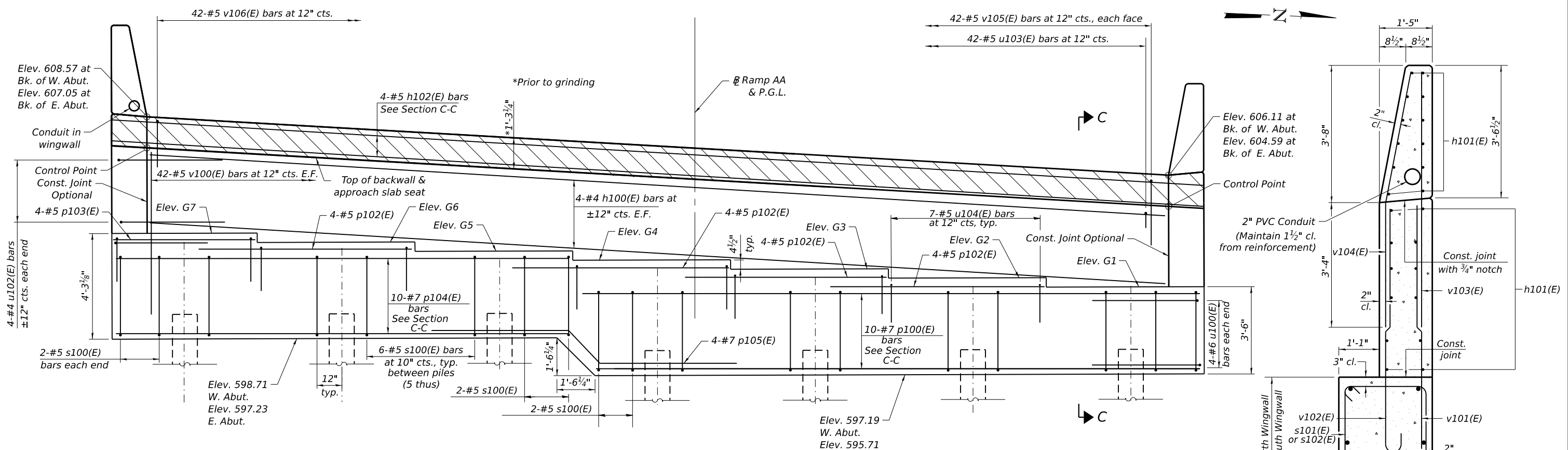
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

BEARING LAYOUT
 STRUCTURE NO. 099-8330

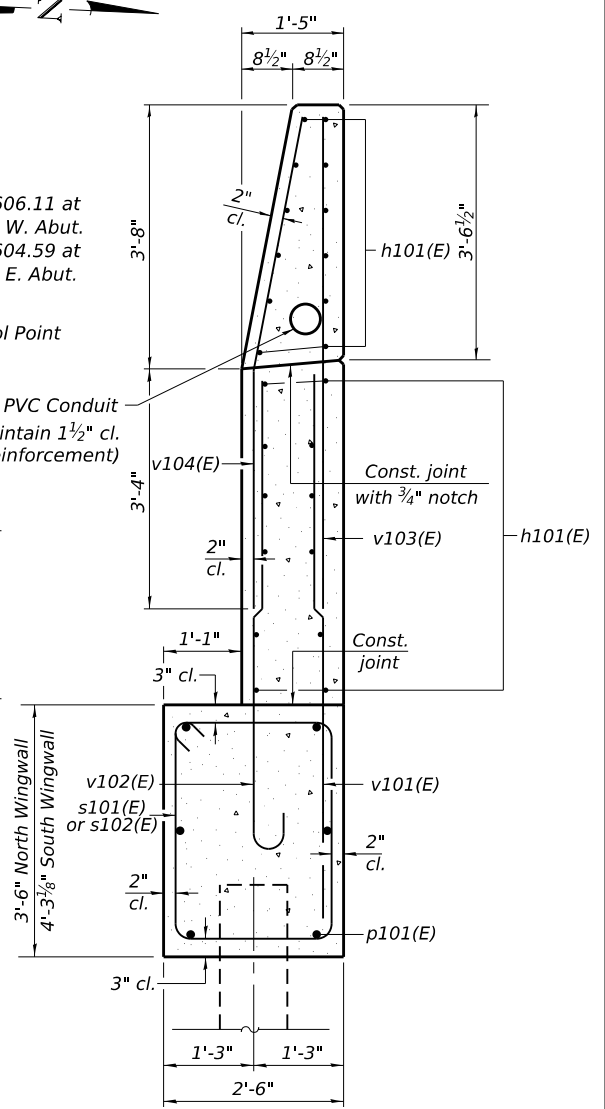
SHEET SB-21 OF SB-34 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 62R26				
ILLINOIS FED. AID PROJECT				

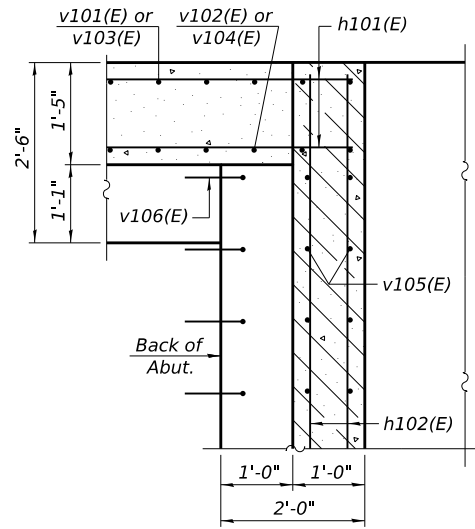
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 AS-44CS-0
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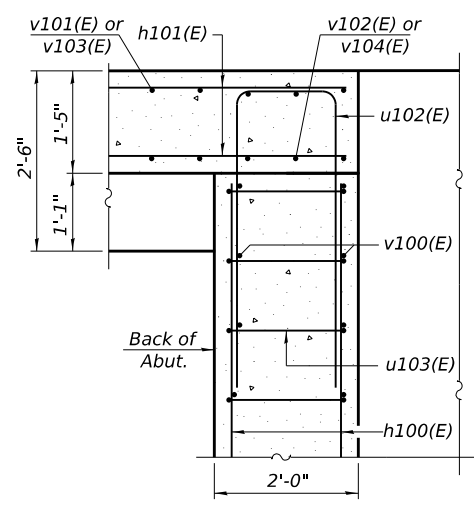
ELEVATION
 West Abutment Footing shown
 (East Abutment similar, opposite hand)



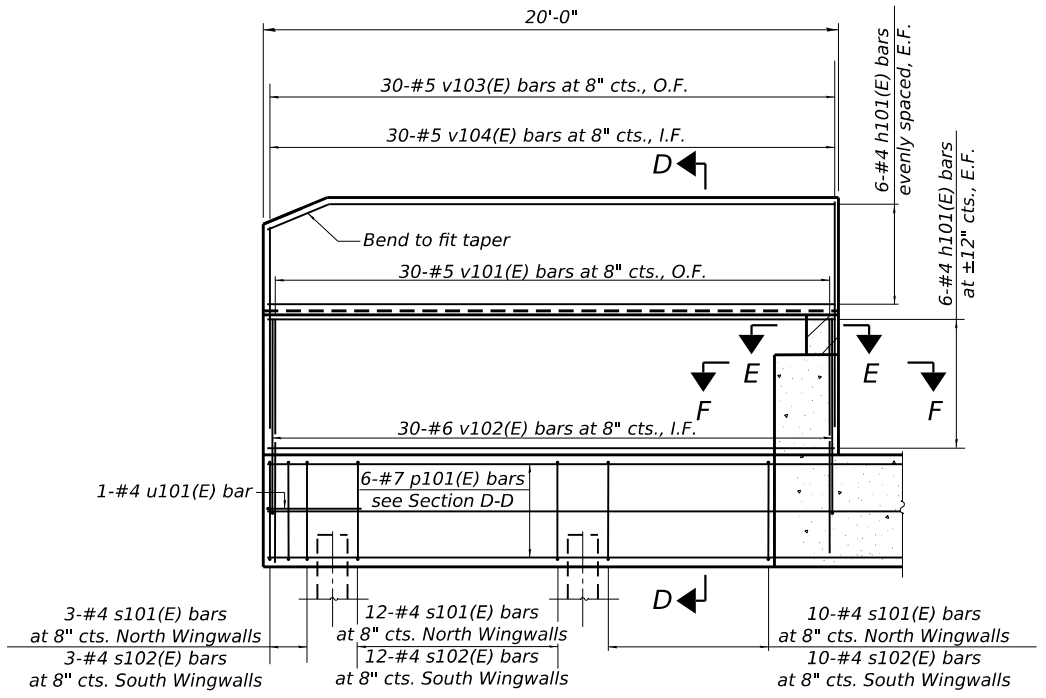
SECTION D-D



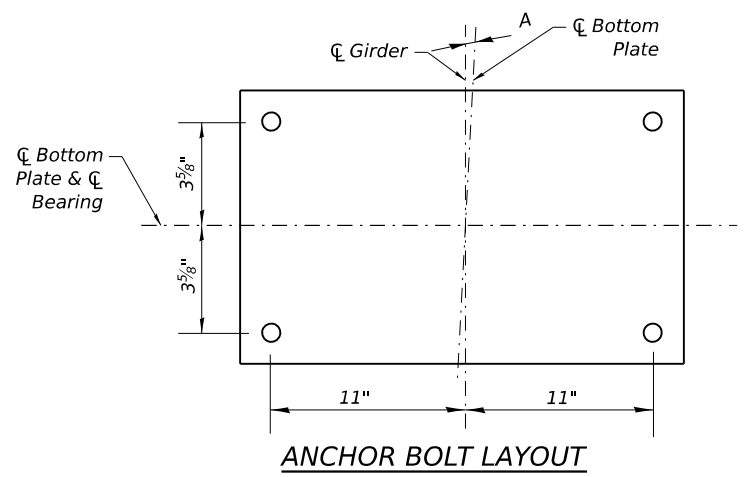
SECTION E-E



SECTION F-F



SECTION A-A
 (Showing reinforcement)
 (Opposite wing similar)



BEARING SEAT ELEVATIONS

Abutment	G1	G2	G3	G4	G5	G6	G7
W Abutment	600.69	601.07	601.45	601.83	602.21	602.59	602.97
E Abutment	599.21	599.59	599.97	600.35	600.73	601.11	601.49

AS-44CS-0



USER NAME = eoskou	DESIGNED - PK	REVISED -
PLOT SCALE =	CHECKED - CRS	REVISED -
PLOT DATE = 7/18/2024	DRAWN - PK	REVISED -
	CHECKED - CRS	REVISED -

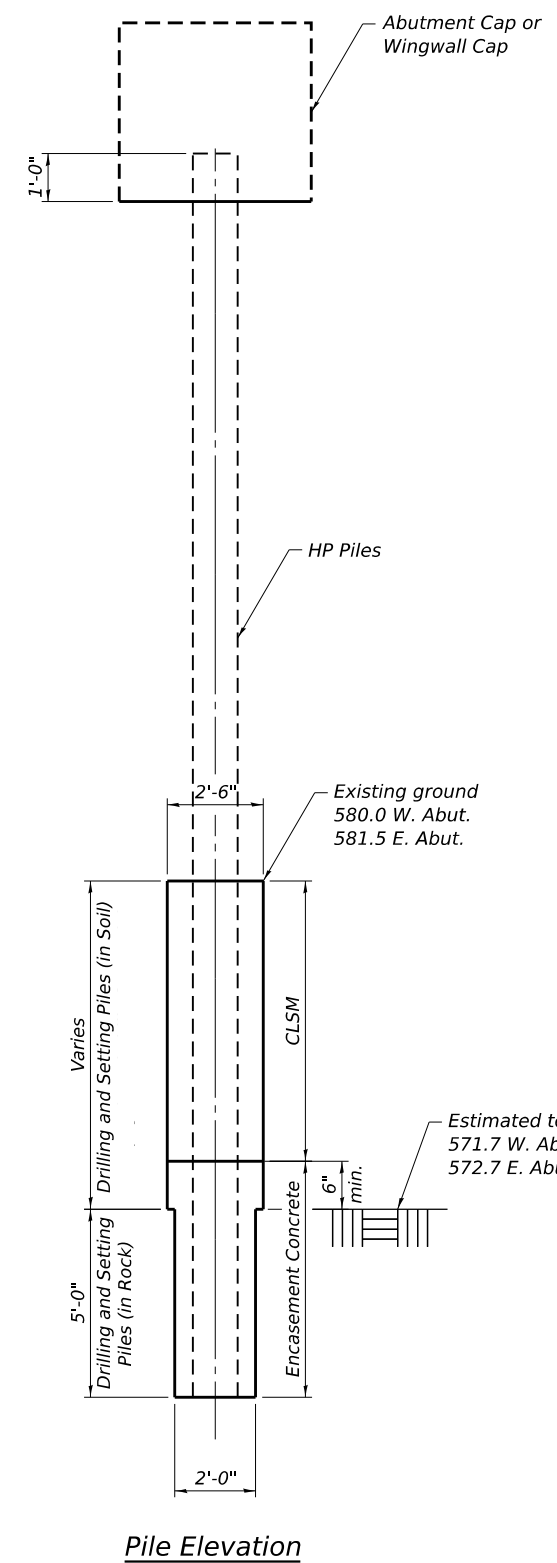
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ABUTMENT DETAILS
STRUCTURE NO. 099-8330

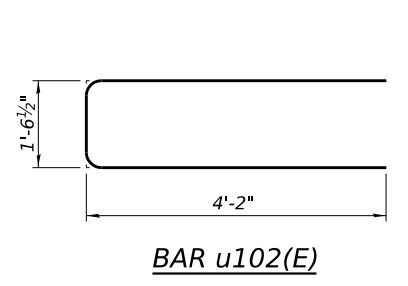
SHEET SB-23 OF SB-34 SHEETS

F.A.I. RTE. 80	SECTION FAI 80 21 STRUCTURE 5	COUNTY WILL	TOTAL SHEETS 525	SHEET NO. 373
CONTRACT NO. 62R26				
ILLINOIS FED. AID PROJECT				

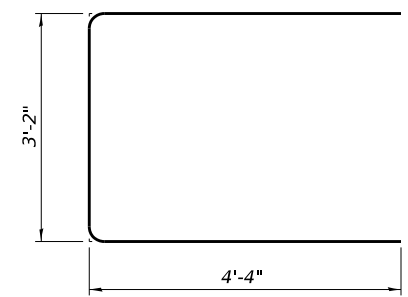
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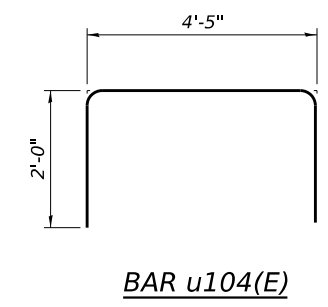
Pile Elevation



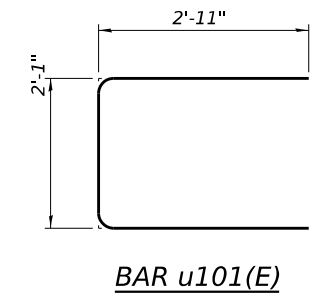
BAR u102(E)



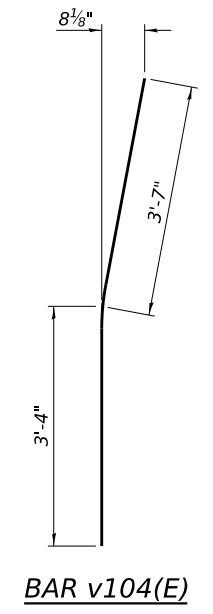
BAR u100(E)



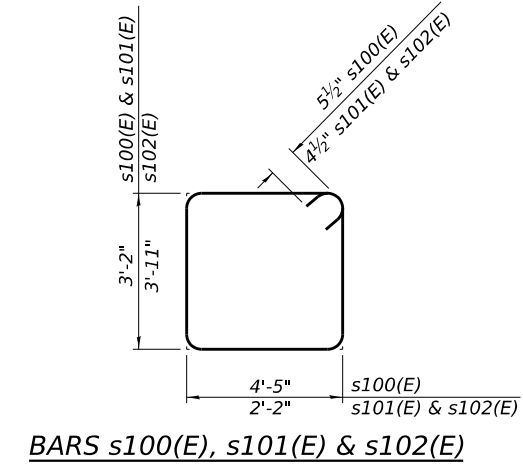
BAR u104(E)



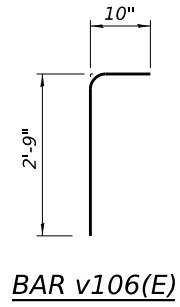
BAR u101(E)



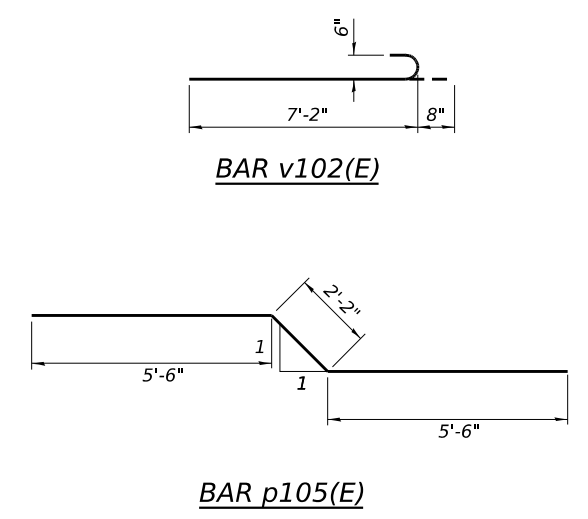
BAR v104(E)



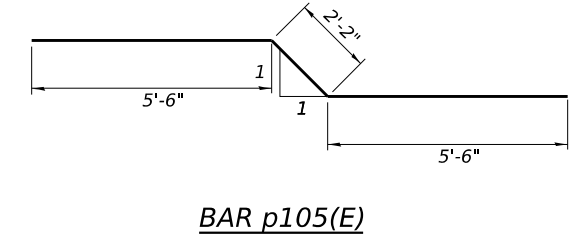
BARS s100(E), s101(E) & s102(E)



BAR v106(E)



BAR v102(E)



BAR p105(E)

**WEST ABUTMENT
BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
h100(E)	8	#4	40'-8"	—
h101(E)	48	#4	19'-8"	—
h102(E)	4	#5	43'-6"	—
p100(E)	10	#7	23'-11"	—
p101(E)	12	#7	21'-7"	—
p102(E)	16	#5	9'-2"	—
p103(E)	4	#5	6'-0"	—
p104(E)	10	#7	18'-2"	—
p105(E)	4	#7	13'-2"	—
s100(E)	38	#5	16'-1"	□
s101(E)	25	#4	11'-5"	□
s102(E)	25	#4	12'-11"	□
u100(E)	8	#6	11'-10"	U
u101(E)	2	#4	7'-11"	U
u102(E)	8	#4	9'-11"	U
u103(E)	42	#5	3'-4"	U
u104(E)	35	#5	8'-5"	U
v100(E)	84	#5	6'-9"	—
v101(E)	60	#5	8'-4"	—
v102(E)	60	#6	7'-10"	—
v103(E)	60	#5	6'-4"	—
v104(E)	60	#5	6'-11"	—
v105(E)	84	#5	2'-10"	—
v106(E)	84	#5	3'-7"	—
Concrete Structures		Cu. Yd.	87.4	
Reinforcement Bars, Epoxy Coated		Pound	7,620	
Furnishing Steel Piles HP14x73		Ft.	630	
Concrete Sealer		Sq. Ft.	533	
Drilling and Setting Piles (In Soil)		Cu. Ft.	539.0	
Drilling and Setting Piles (In Rock)		Cu. Ft.	282.7	

**EAST ABUTMENT
BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
h100(E)	8	#4	40'-8"	—
h101(E)	48	#4	19'-8"	—
h102(E)	4	#5	43'-6"	—
p100(E)	10	#7	23'-11"	—
p101(E)	12	#7	21'-7"	—
p102(E)	16	#5	9'-2"	—
p103(E)	4	#5	6'-0"	—
p104(E)	10	#7	18'-2"	—
p105(E)	4	#7	13'-2"	—
s100(E)	38	#5	16'-1"	□
s101(E)	25	#4	11'-5"	□
s102(E)	25	#4	12'-11"	□
u100(E)	8	#6	11'-10"	U
u101(E)	2	#4	7'-11"	U
u102(E)	8	#4	9'-11"	U
u103(E)	42	#5	3'-4"	U
u104(E)	35	#5	8'-5"	U
v100(E)	84	#5	6'-9"	—
v101(E)	60	#5	8'-4"	—
v102(E)	60	#6	7'-10"	—
v103(E)	60	#5	6'-4"	—
v104(E)	60	#5	6'-11"	—
v105(E)	84	#5	2'-10"	—
v106(E)	84	#5	3'-7"	—
Concrete Structures		Cu. Yd.	87.3	
Reinforcement Bars, Epoxy Coated		Pound	7,620	
Furnishing Steel Piles HP14x73		Ft.	630	
Concrete Sealer		Sq. Ft.	532	
Drilling and Setting Piles (In Soil)		Cu. Ft.	671.5	
Drilling and Setting Piles (In Rock)		Cu. Ft.	282.6	

PILE DATA-EAST ABUTMENT PILE DATA-WEST ABUTMENT

Type: HP 14x73
Nominal Required Bearing: Set in Rock
Factored Resistance Available: 749 kips
Est. Length: 35'-0"
No. Production Piles: 18

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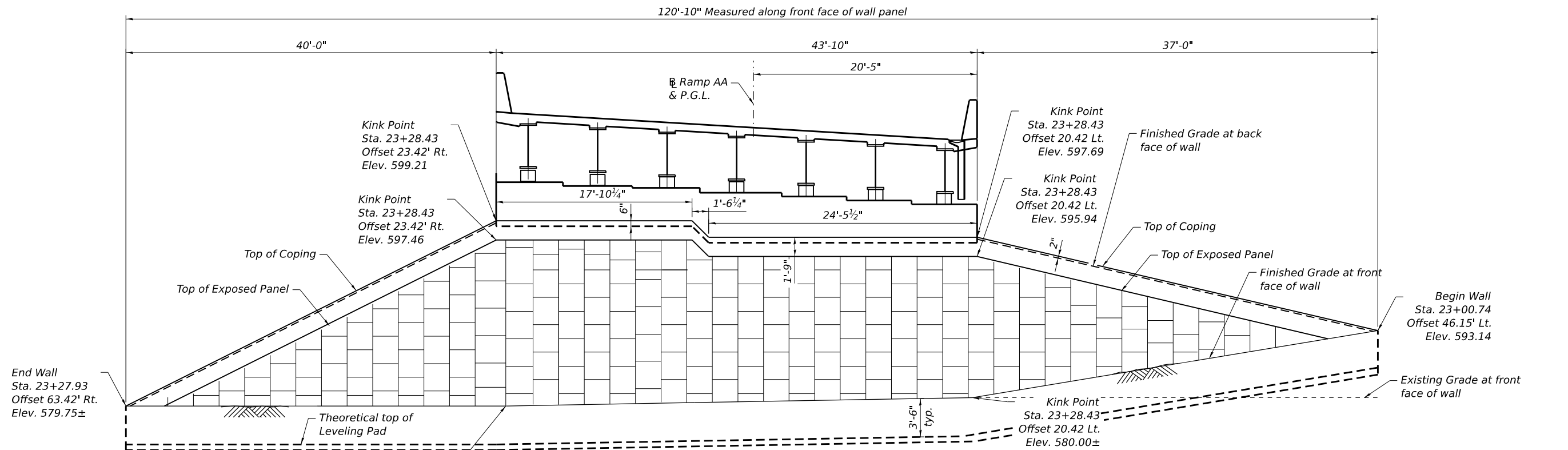
**ABUTMENT BILL OF MATERIAL
STRUCTURE NO. 099-8330**

SHEET SB-24 OF SB-34 SHEETS

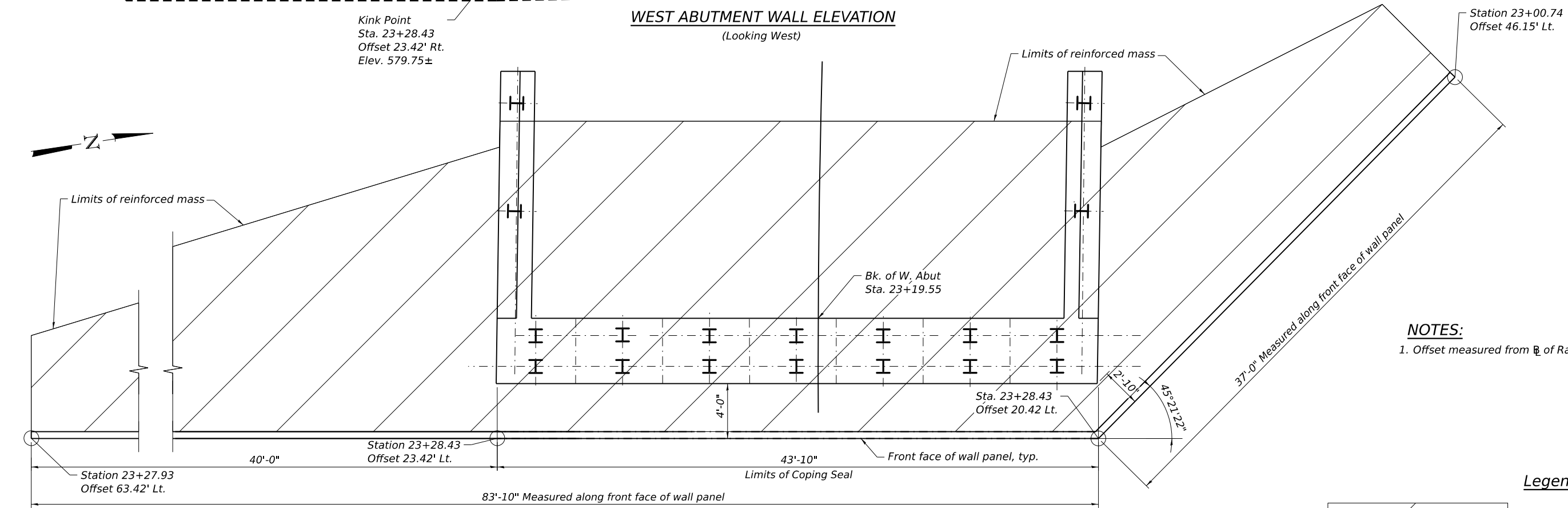
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	FAI 80 21 STRUCTURE 5	WILL	525	374
CONTRACT NO. 62R26				
ILLINOIS FED. AID PROJECT				



MODEL: Default
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WEST ABUTMENT WALL ELEVATION
 (Looking West)



WEST ABUTMENT WALL PLAN

NOTES:
 1. Offset measured from \mathcal{R} of Ramp AA

Legend
 Limits of reinforced mass



USER NAME = eoskou	DESIGNED - LRG	REVISED -
	CHECKED - DTS	REVISED -
PLOT SCALE =	DRAWN - LRG	REVISED -
PLOT DATE = 7/18/2024	CHECKED - DTS	REVISED -

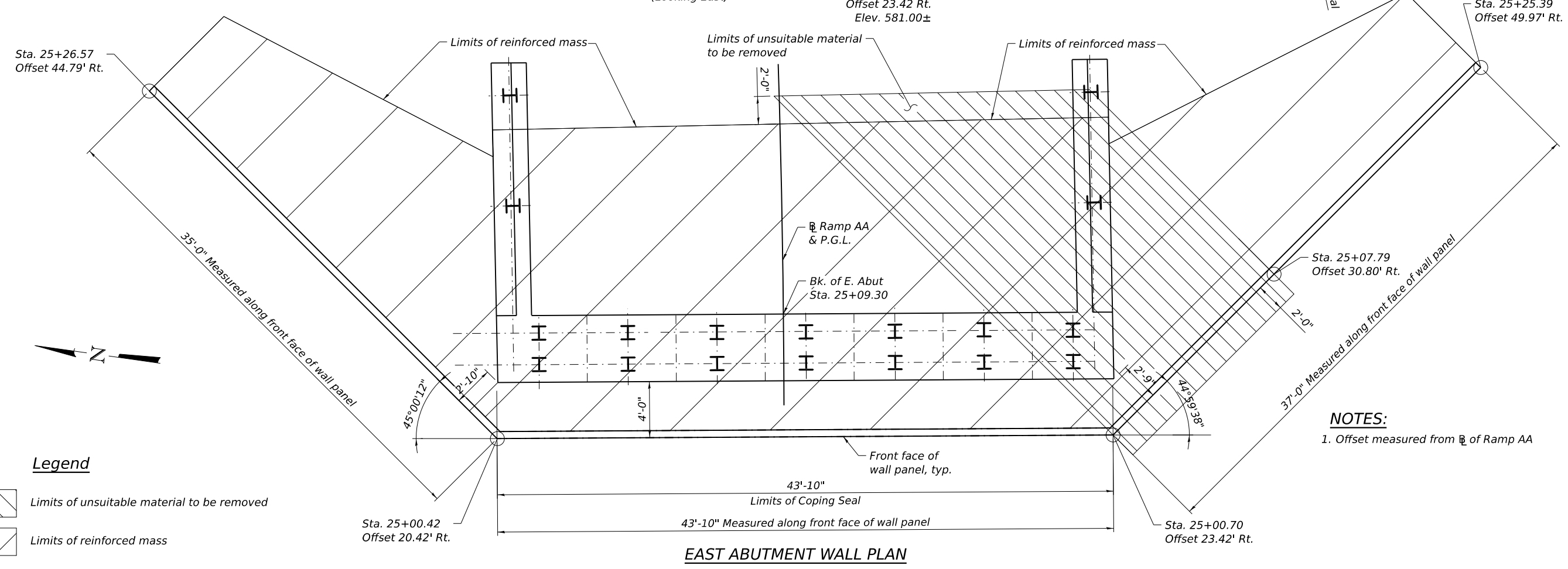
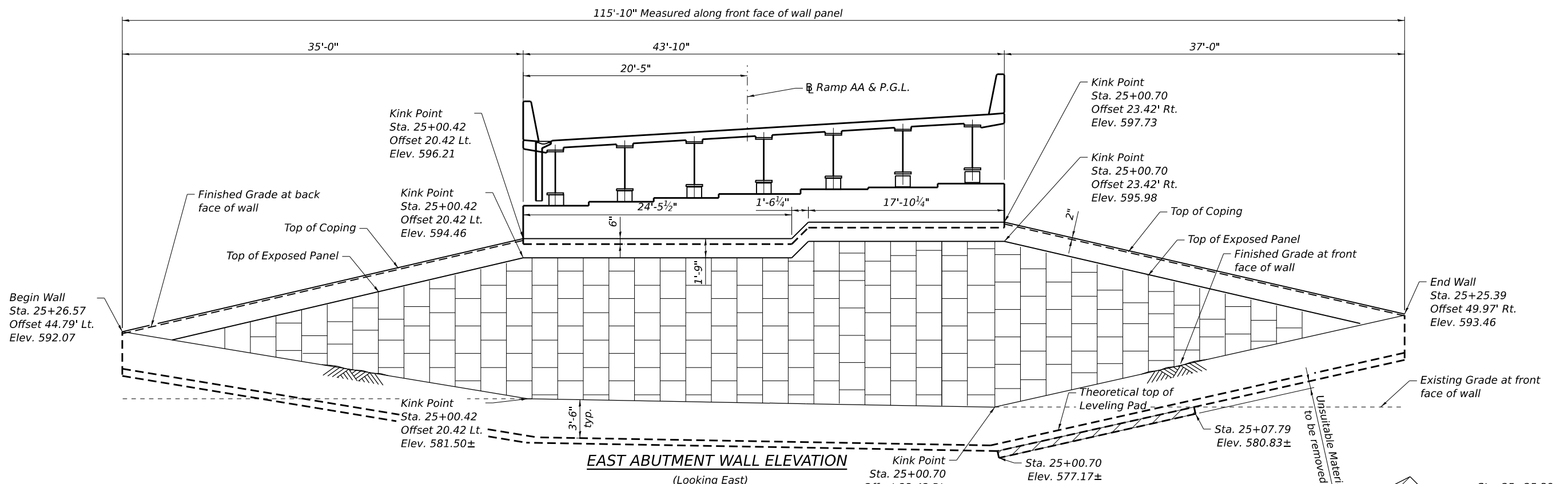
STATE OF ILLINOIS
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WEST ABUTMENT MSE WALL
 STRUCTURE NO. 099-8330

SHEET SB-25 OF SB-34 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	FAI 80 21 STRUCTURE 5	WILL	525	375
CONTRACT NO. 62R26				
ILLINOIS FED. AID PROJECT				

MODEL: Default
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 7/18/2024 6:01:17 PM



Legend

- Limits of unsuitable material to be removed
- Limits of reinforced mass

NOTES:
 1. Offset measured from \varnothing of Ramp AA

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 DEPARTMENT OF TRANSPORTATION

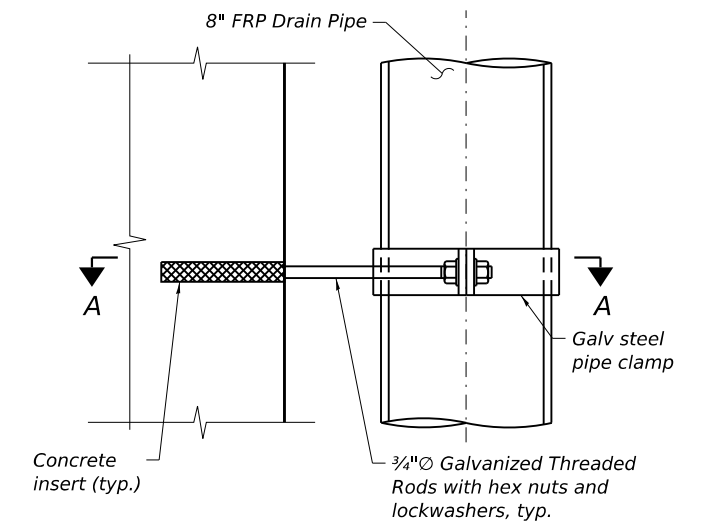
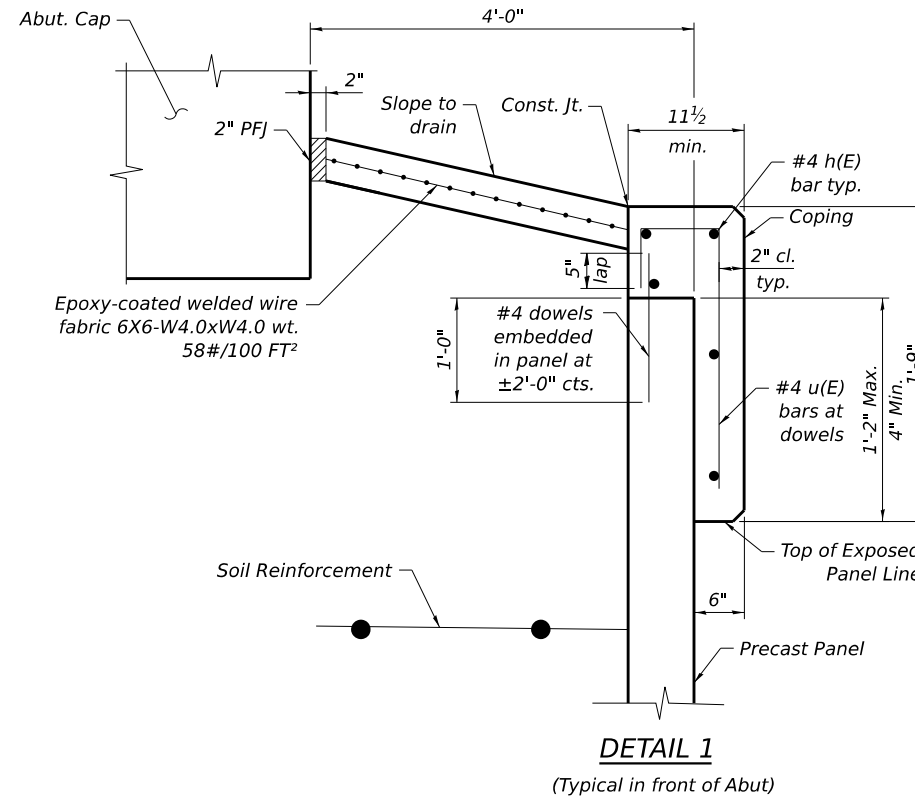
EAST ABUTMENT MSE WALL
 STRUCTURE NO. 099-8330

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	FAI 80 21 STRUCTURE 5	WILL	525	376
CONTRACT NO. 62R26				
ILLINOIS FED. AID PROJECT				

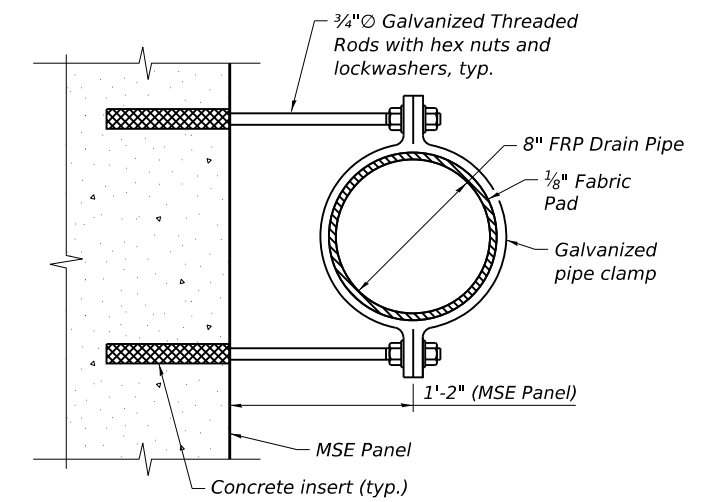
SHEET SB-26 OF SB-34 SHEETS

NOTES:

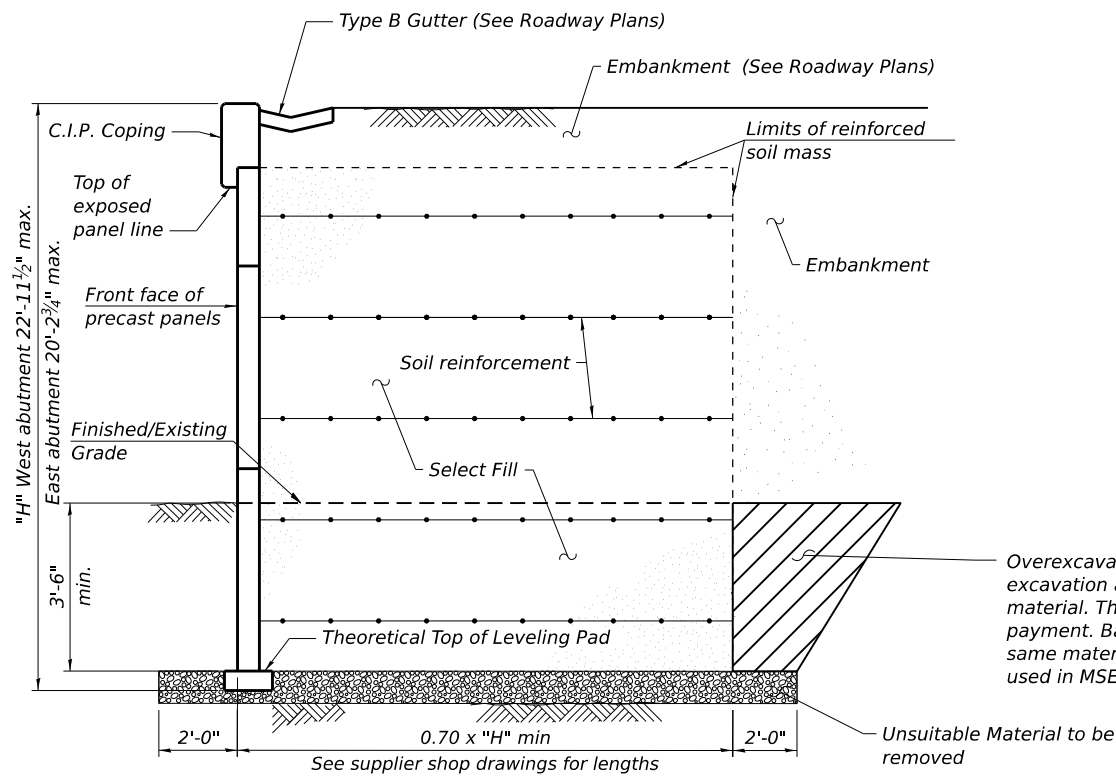
1. All stations, elevations and longitudinal dimensions shown are taken at the front face of panels.
2. The cost of the concrete and the reinforcing steel required for the coping shall be included in the cost of mechanically stabilized earth retaining wall.
3. Where unsuitable material for structures is being removed, Granular Backfill for Structures shall be used to backfill these areas.
4. Piles shall be constructed prior to placement of reinforced select backfill.
5. The surface of the fiberglass shall be free of bond inhibiting agents.
6. Collector Pipe shall be sized to accommodate longitudinal thermal movement of the superstructure.
7. All pipes, inserts, clamps, fabric pads, nuts, washers, and bolts associated with drainage systems shall be paid for as "Drainage System for Structures"



PIPE SUPPORT PLAN AT MSE WALL



SECTION A-A



**SECTION THRU M.S.E. WALL
BEYOND BRIDGE LIMITS**

BILL OF MATERIAL

ITEM	UNIT	TOTAL
Mechanically Stabilized Earth Retaining Walls	Sq. Ft.	3310
Removal and Disposal of Unsuitable Material for Structure	Cu. Yd.	3.2
Drainage System for Structures	L. Sum	1.0
Granular Backfill for Structures	Cu. Yd.	3.2

MODEL: Default
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USER NAME = eoskou	DESIGNED - LRG	REVISED -
PLOT SCALE =	CHECKED - DTS	REVISED -
PLOT DATE = 7/18/2024	DRAWN - LRG	REVISED -
	CHECKED - DTS	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**MSE WALL DETAILS
STRUCTURE NO. 099-8330**

SHEET SB-27 OF SB-34 SHEETS

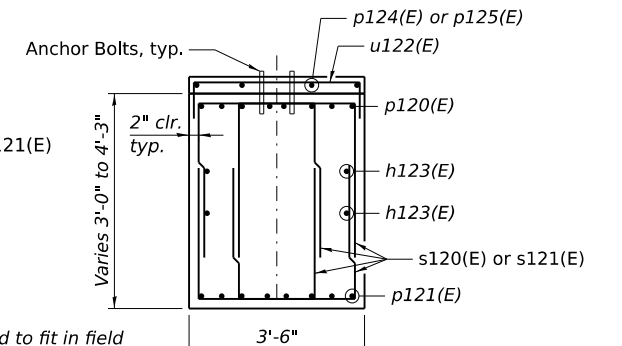
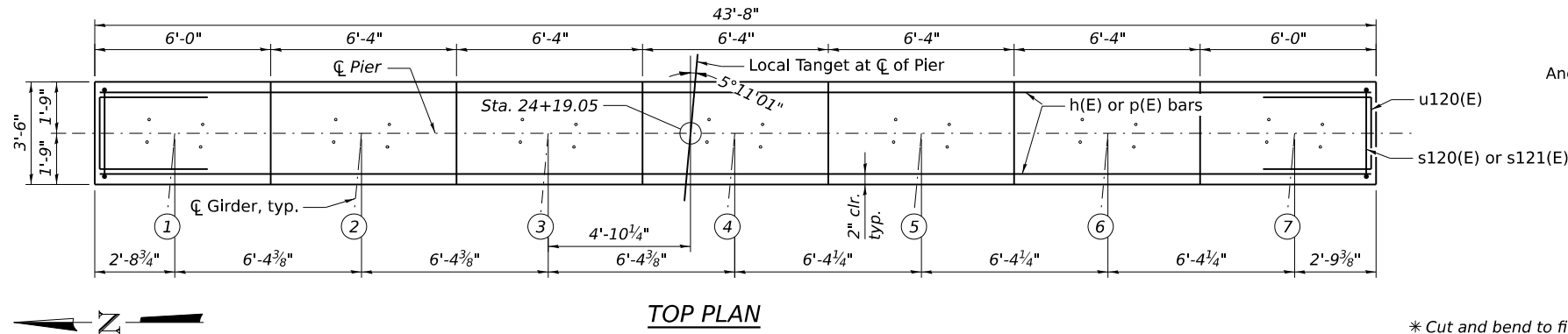
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	FAI 80 21 STRUCTURE 5	WILL	525	377
CONTRACT NO. 62R26				
ILLINOIS FED. AID PROJECT				

NOTES:

Space reinforcement in cap to miss anchor bolts.
 Pour steps monolithically with cap.
 For details of piles see Sheet SB-29.
 Additional 5' added to piles for embedment in rock.

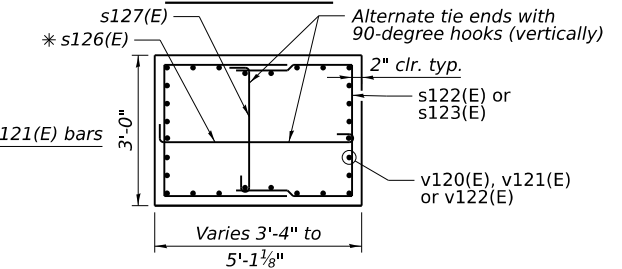
PILE DATA

Type: HP 14x73
 Nominal Bearing: Set in Rock
 Factored Resistance Available: 749 kips
 Estimated Length: 17ft
 No. Production Piles: 12
 No. Test Piles: 0

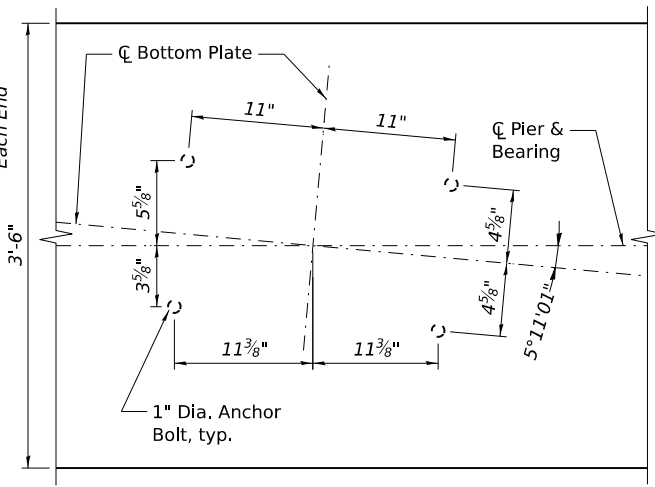


* Cut and bend to fit in field

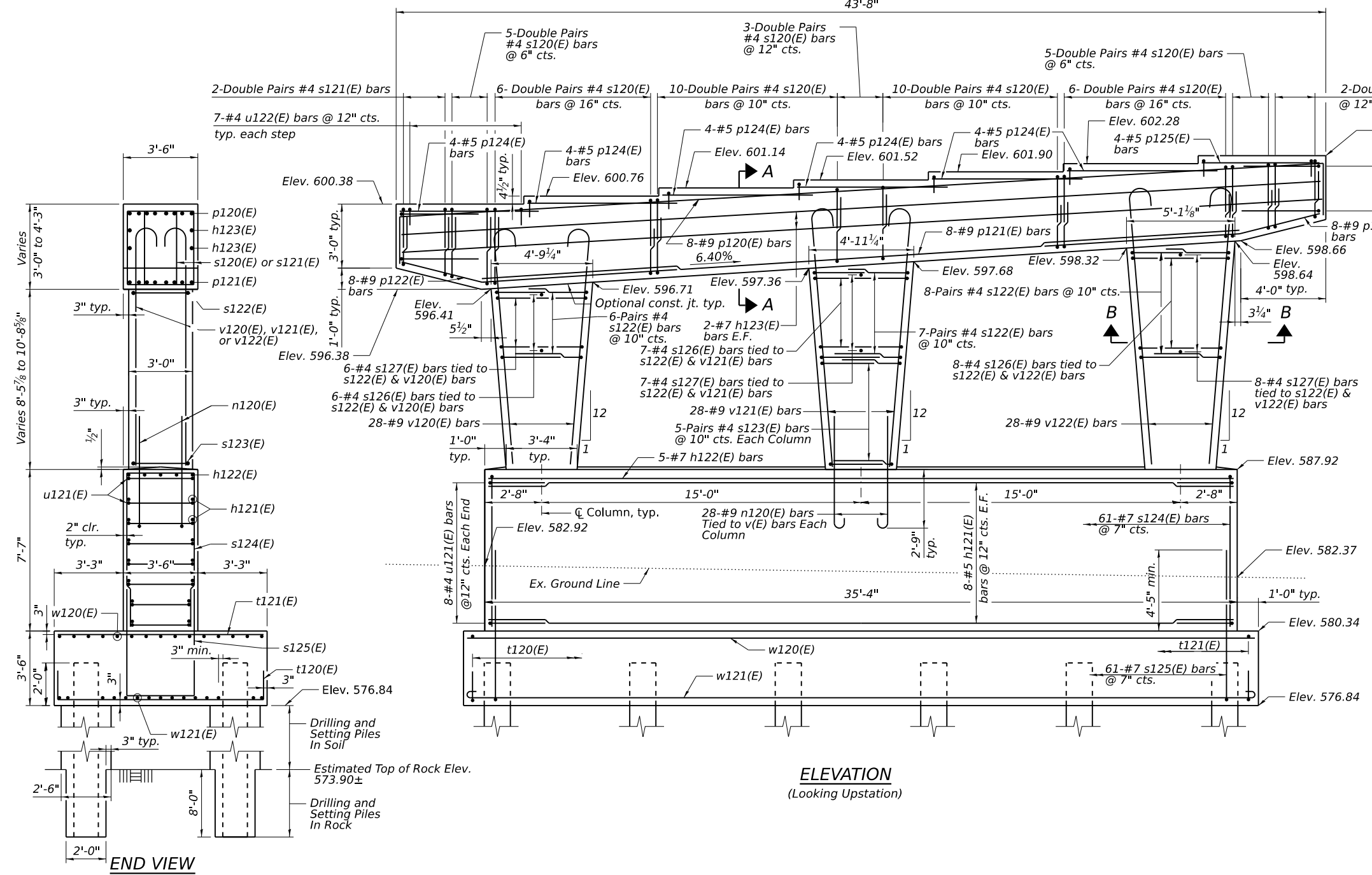
SECTION A-A



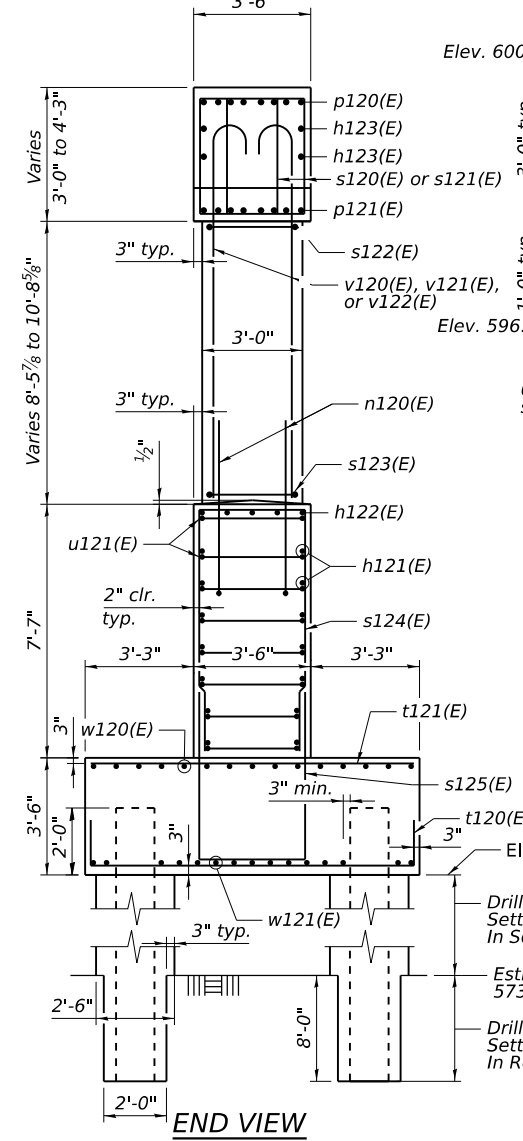
SECTION B-B



ANCHOR BOLT LAYOUT



ELEVATION
(Looking Upstation)



END VIEW

MODEL: Sheet
 FILE NAME: pw://transystems-pw.bentley.com/transystems-pw1-hosted/Documents/Projects_2018/CH401/401180022/01-StantecCAD/INT-02_62R26/04-Structures/0998330_155 Ramp AA Over I-55/Final/0998330-62R26-028-Pier Plan and Elevation



USER NAME = eoskou	DESIGNED - LRG	REVISED -
PLOT SCALE =	CHECKED - CRS	REVISED -
PLOT DATE = 7/18/2024	DRAWN - LRG	REVISED -
	CHECKED - CRS	REVISED -

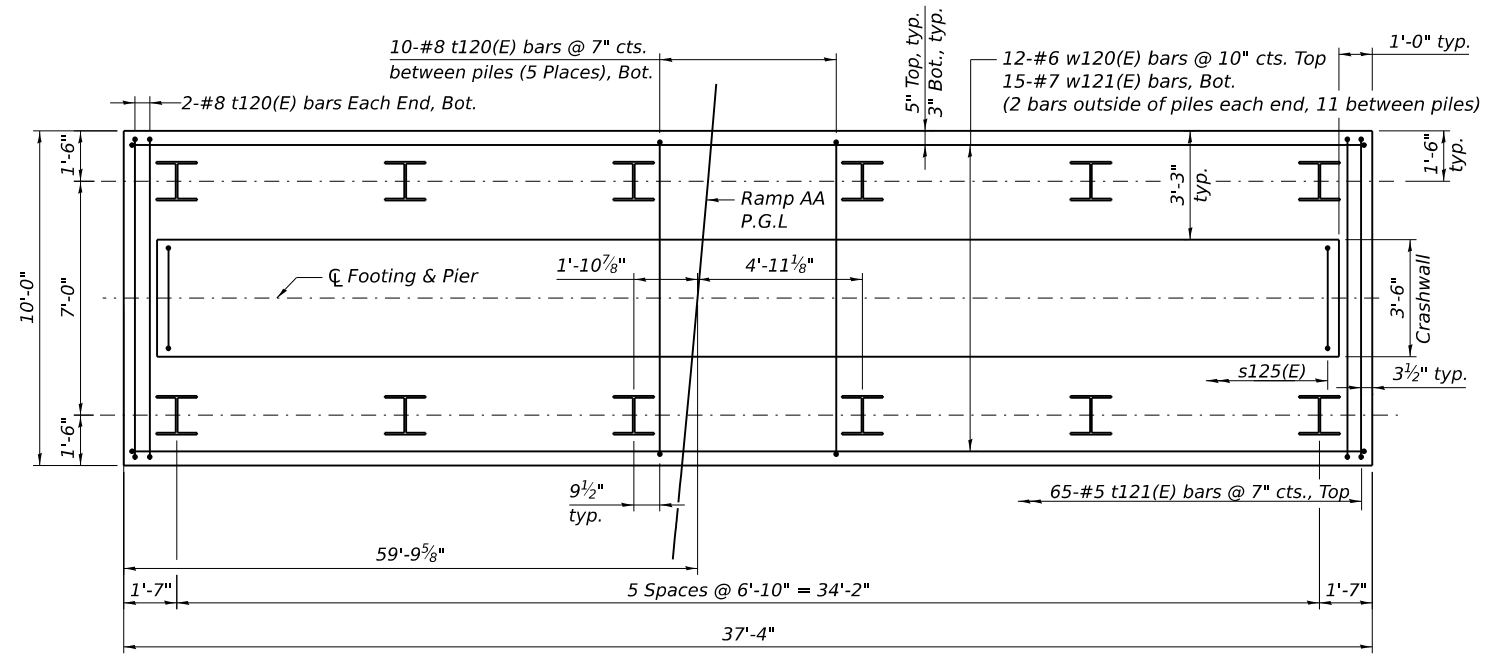
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

PIER PLAN & ELEVATION
 STRUCTURE NO. 099-8330

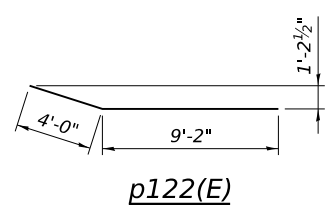
SHEET SB-28 OF SB-34 SHEETS

F.A.I. RTE. 80	SECTION FAI 80 21 STRUCTURE 5	COUNTY WILL	TOTAL SHEETS 525	SHEET NO. 378
				CONTRACT NO. 62R26
		ILLINOIS FED. AID PROJECT		

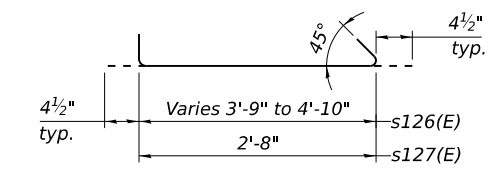
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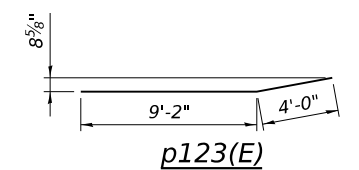
FOOTING PLAN



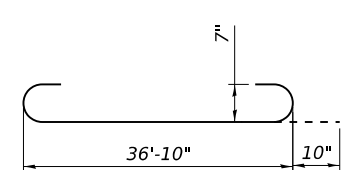
p122(E)



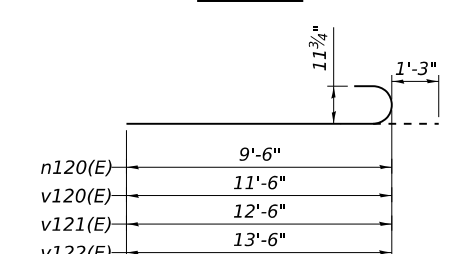
s126(E) & s127(E)



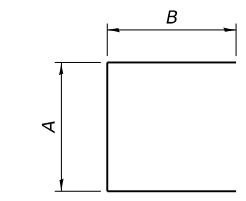
p123(E)



w121(E)



n120(E), v120(E), v121(E), & v122(E)



BAR	A	B
s120(E)	3'-2"	3'-11"
s121(E)	3'-2"	2'-10"
s122(E)	2'-8"	3'-7"
s123(E)	2'-8"	3'-1"
s124(E)	3'-2"	7'-3"
s125(E)	3'-2"	7'-8"
t120(E)	9'-6"	1'-6"
u120(E)	3'-2"	4'-4"
u121(E)	3'-2"	2'-11"
u122(E)	3'-2"	0'-8"

NOTES:

- Concrete Sealer shall be applied to all faces of the pier cap, columns, and crashwall.
- Pier piles shall be set through 30" diameter precored holes extending to elevation 573.90±. Piles will then be set in 24" diameter precored holes extending 8 feet into rock according to Article 512.17 of the Standard Specifications. The void space outside of the piles shall be filled with concrete up to at least 6 inches above the top of rock and CLSM in the remaining void space. Cost included in Drilling and Setting Piles (In Soil/In Rock).

BILL OF MATERIAL

BAR	NO	SIZE	LENGTH	SHAPE
h121(E)	16	#5	35'-0"	—
h122(E)	5	#7	35'-0"	—
h123(E)	4	#7	43'-5"	—
n120(E)	84	#9	10'-4"	U
p120(E)	8	#9	47'-11"	U
p121(E)	8	#9	35'-8"	—
p122(E)	8	#9	13'-2"	U
p123(E)	8	#9	13'-2"	U
p124(E)	24	#5	6'-6"	—
p125(E)	4	#5	5'-8"	—
s120(E)	180	#4	11'-0"	U
s121(E)	16	#4	8'-10"	U
s122(E)	42	#4	9'-10"	U
s123(E)	30	#4	8'-10"	U
s124(E)	61	#7	17'-8"	U
s125(E)	61	#7	18'-6"	U
s126(E)	21	#4	5'-7"	U
s127(E)	21	#4	3'-5"	U
t120(E)	54	#8	12'-6"	U
t121(E)	65	#5	9'-6"	—
u120(E)	6	#6	11'-10"	U
u121(E)	16	#4	9'-0"	U
u122(E)	98	#4	4'-6"	U
v120(E)	28	#9	12'-9"	U
v121(E)	28	#9	13'-9"	U
v122(E)	28	#9	14'-9"	U
w120(E)	12	#6	36'-10"	—
w121(E)	15	#7	38'-6"	U

ITEM	UNIT	QUANTITY
Structures Excavation	CU YD	112.4
Concrete Structures	CU YD	119.4
Reinforcement Bars Epoxy Coated	POUND	22,650
Furnishing Steel Piles HP14x73	FOOT	204
Drilling and Setting Piles In Soil	CU FT	173.2
Drilling and Setting Piles In Rock	CU FT	302.0
Concrete Sealer	SQ FT	1,553



USER NAME = eoskou	DESIGNED - LRG	REVISED -
PLOT SCALE =	CHECKED - CRS	REVISED -
PLOT DATE = 7/18/2024	DRAWN - LRG	REVISED -
	CHECKED - CRS	REVISED -

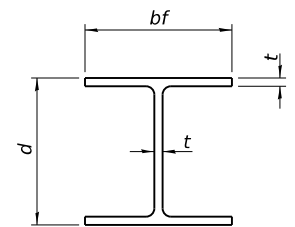
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

PIER FOOTING DETAIL & BOM
 STRUCTURE NO. 099-8330

SHEET SB-29 OF SB-34 SHEETS

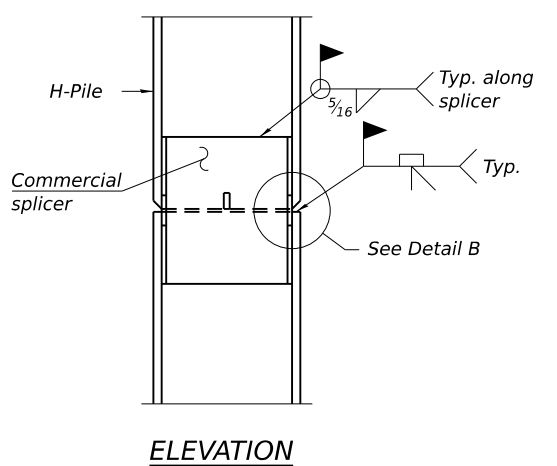
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	FAI 80 21 STRUCTURE 5	WILL	525	379
CONTRACT NO. 62R26				
ILLINOIS FED. AID PROJECT				

MODEL: Default
 FILE NAME: pw://transystems-pw.bentley.com/transystems-pw1-hosted/Documents/Projects_2018/CH401/401180022/01-Stantec/CAD/INT-02_62R26/04-Structures/0998330_1-55 Ramp_AA Over_1-55/Final/0998330-62R26-030-HP Pile Details.dgn
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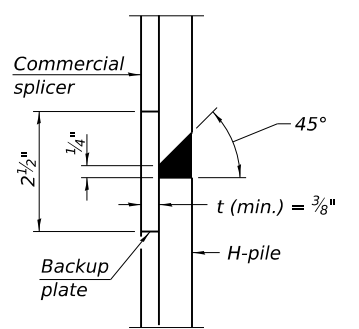


STEEL PILE TABLE

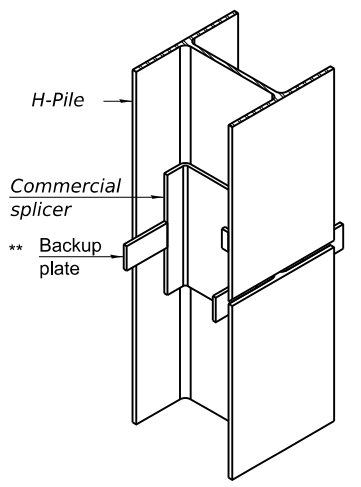
Designation	Depth d	Flange width bf	Web and Flange thickness t	Encasement diameter A
HP 14x117	14 1/4"	14 7/8"	1 3/16"	30"
x102	14"	14 3/4"	1 1/16"	30"
x89	13 7/8"	14 3/4"	5/8"	30"
x73	13 5/8"	14 5/8"	1/2"	30"
HP 12x84	12 1/4"	12 3/4"	1 1/16"	24"
x74	12 1/8"	12 3/4"	5/8"	24"
x63	12"	12 3/8"	1/2"	24"
x53	11 3/4"	12"	7/16"	24"
HP 10x57	10"	10 1/4"	9/16"	24"
x42	9 3/4"	10 1/8"	7/16"	24"
HP 8x36	8"	8 1/8"	7/16"	18"



ELEVATION

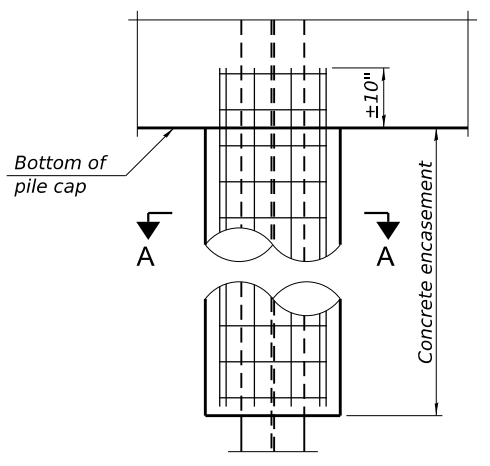


DETAIL "B"

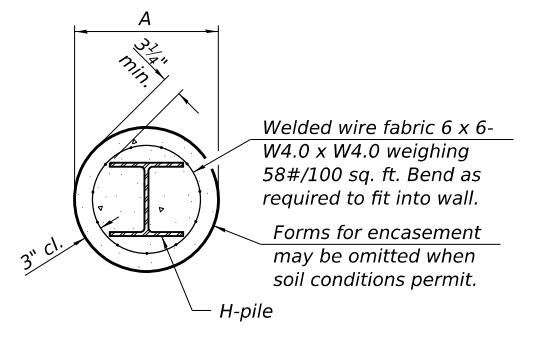


ISOMETRIC VIEW

WELDED COMMERCIAL SPLICE

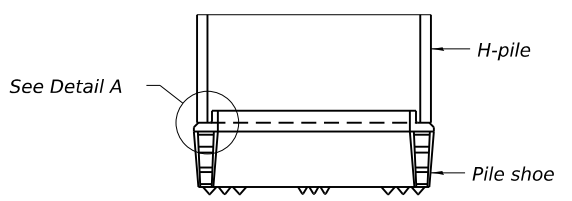


ELEVATION

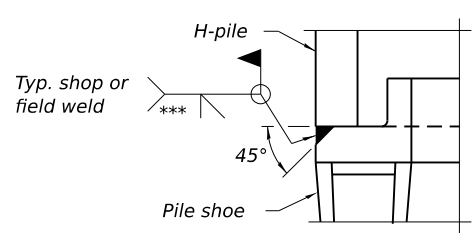


SECTION A-A

INDIVIDUAL PILE CONCRETE ENCASUREMENT
(when specified)

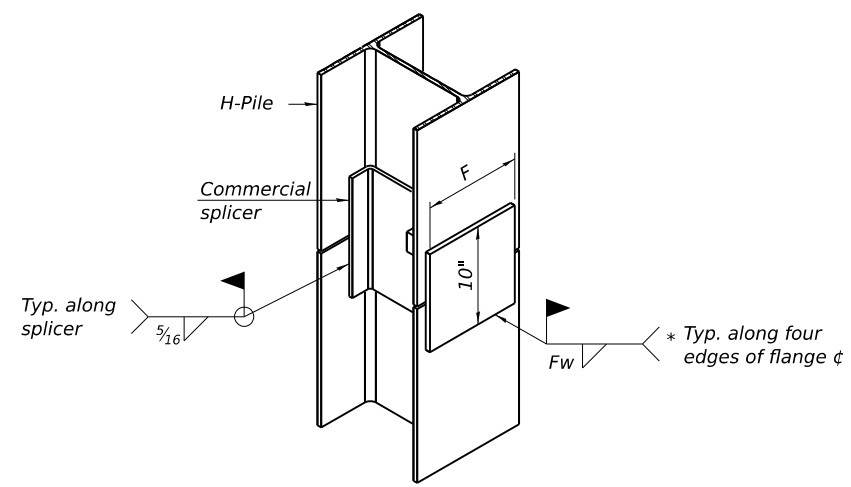


ELEVATION



DETAIL A

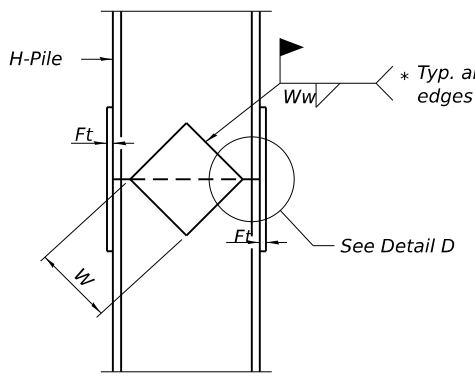
SHOE ATTACHMENT



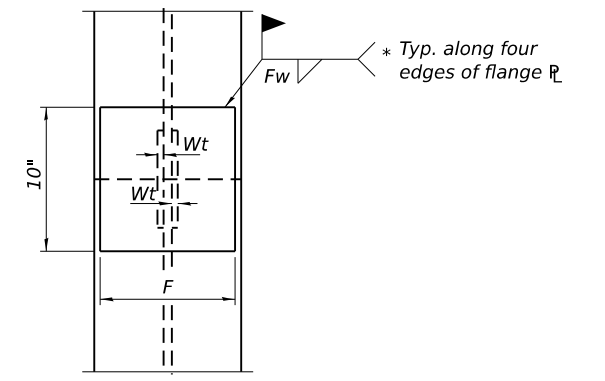
ISOMETRIC VIEW

WELDED COMMERCIAL SPLICE ALTERNATE

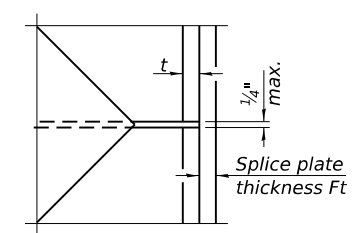
- * Interrupt welds 1/4" from end of web and/or each flange.
- ** Remove portions of backup plates that extend outside the flanges.
- *** Weld size per pile shoe manufacturer (5/16" min.).



ELEVATION



END VIEW



DETAIL C

WELDED PLATE FIELD SPLICE

Designation	F	Ft	Fw	W	Wt	Ww
HP 14x117	12 1/2"	1 1/4"	7/8"	7 3/4"	5/8"	1/2"
x102	12 1/2"	1"	3/4"	7 3/4"	5/8"	1/2"
x89	12 1/2"	7/8"	1 1/16"	7 3/4"	5/8"	1/2"
x73	12 1/2"	3/4"	9/16"	7 3/4"	5/8"	1/2"
HP 12x84	10"	1"	1 1/16"	6 1/2"	5/8"	1/2"
x74	10"	7/8"	1 1/16"	6 1/2"	5/8"	1/2"
x63	10"	3/4"	1/2"	6 1/2"	1/2"	3/8"
x53	10"	3/4"	1/2"	6 1/2"	1/2"	3/8"
HP 10x57	8"	7/8"	9/16"	5 1/4"	1/2"	3/8"
x42	8"	3/4"	9/16"	5 1/4"	1/2"	3/8"
HP 8x36	6 3/4"	5/8"	7/16"	4"	1/2"	3/8"

Note:
The steel H-piles shall be according to AASHTO M270 Grade 50.

F-HP

10-27-2023



USER NAME = eoskou	DESIGNED - LRG	REVISED -
PLOT SCALE =	CHECKED - DTS	REVISED -
PLOT DATE = 7/18/2024	DRAWN - DTS	REVISED -
	CHECKED - LRG	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**HP PILE DETAILS
STRUCTURE NO. 099-8330**

SHEET SB-30 OF SB-34 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	FAI 80 21 STRUCTURE 5	WILL	525	380
CONTRACT NO. 62R26				
ILLINOIS FED. AID PROJECT				

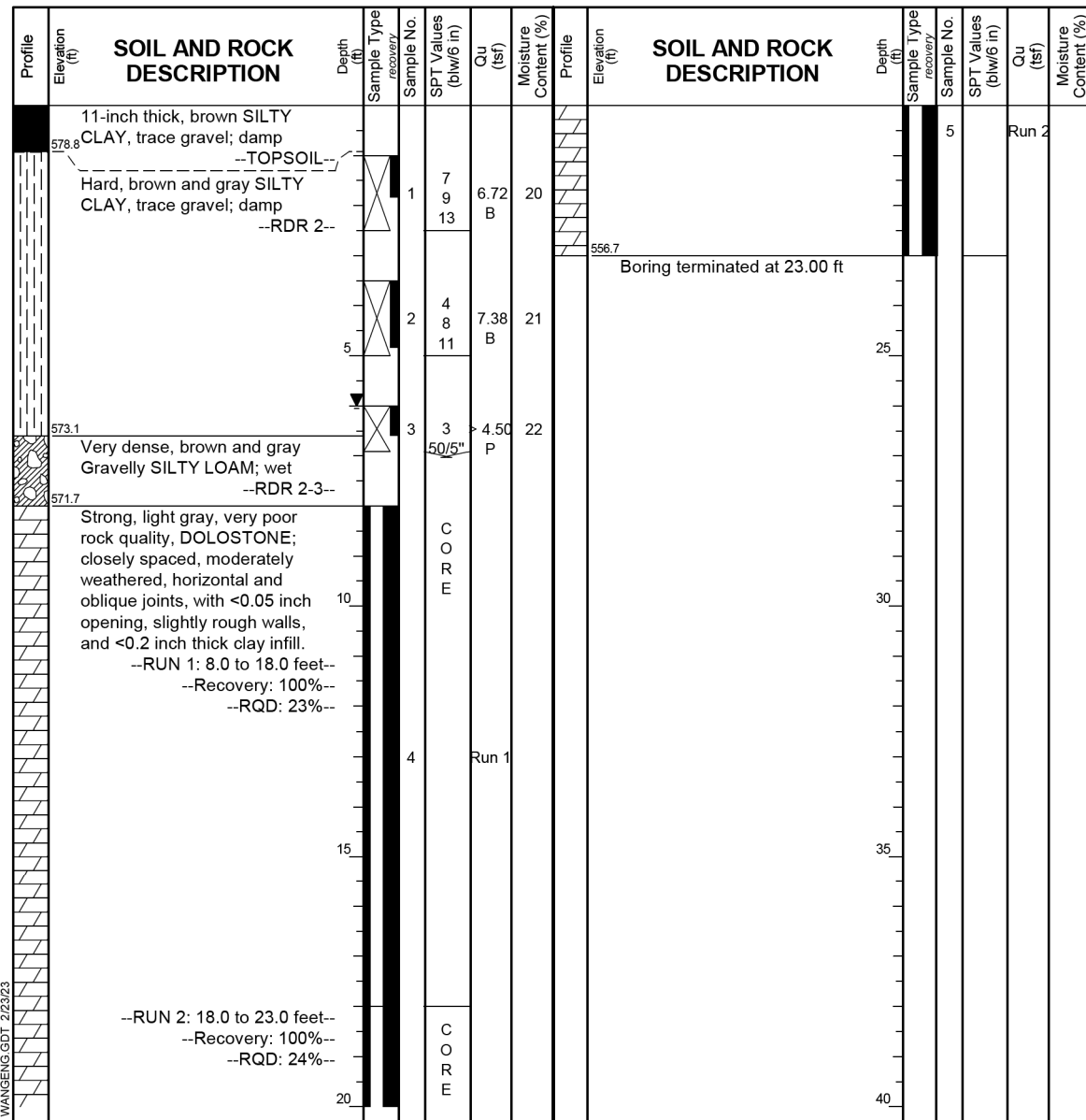
Wang Engineering
 wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630 953-9928
 Fax: 630 953-9938

BORING LOG AA-BSB-01
 WEI Job No.: 255-39-01

Datum: NAVD 88
 Elevation: 579.72 ft
 North: 1754609.97 ft
 East: 1021399.04 ft
 Station: 22+82.6
 Offset: 4.2 LT

Client: **Stantec**
 Project: **I-80 Reconstruction, Ridge Road to Houbolt Road**
 Location: **Will County, Illinois**

Page 1 of 1



GENERAL NOTES				WATER LEVEL DATA			
Begin Drilling	12-27-2022	Complete Drilling	12-27-2022	While Drilling	▽	6.00 ft	
Drilling Contractor	Wang Testing Services	Drill Rig	21D120A[78%]	At Completion of Drilling	▼	6.00 ft	
Driller	NC&DZ	Logger	B. Miller	Time After Drilling	NA		
Checked by	C. Marin	Drilling Method	3.25" ID HSA; boring backfilled upon completion	Depth to Water	▽	NA	
The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.							

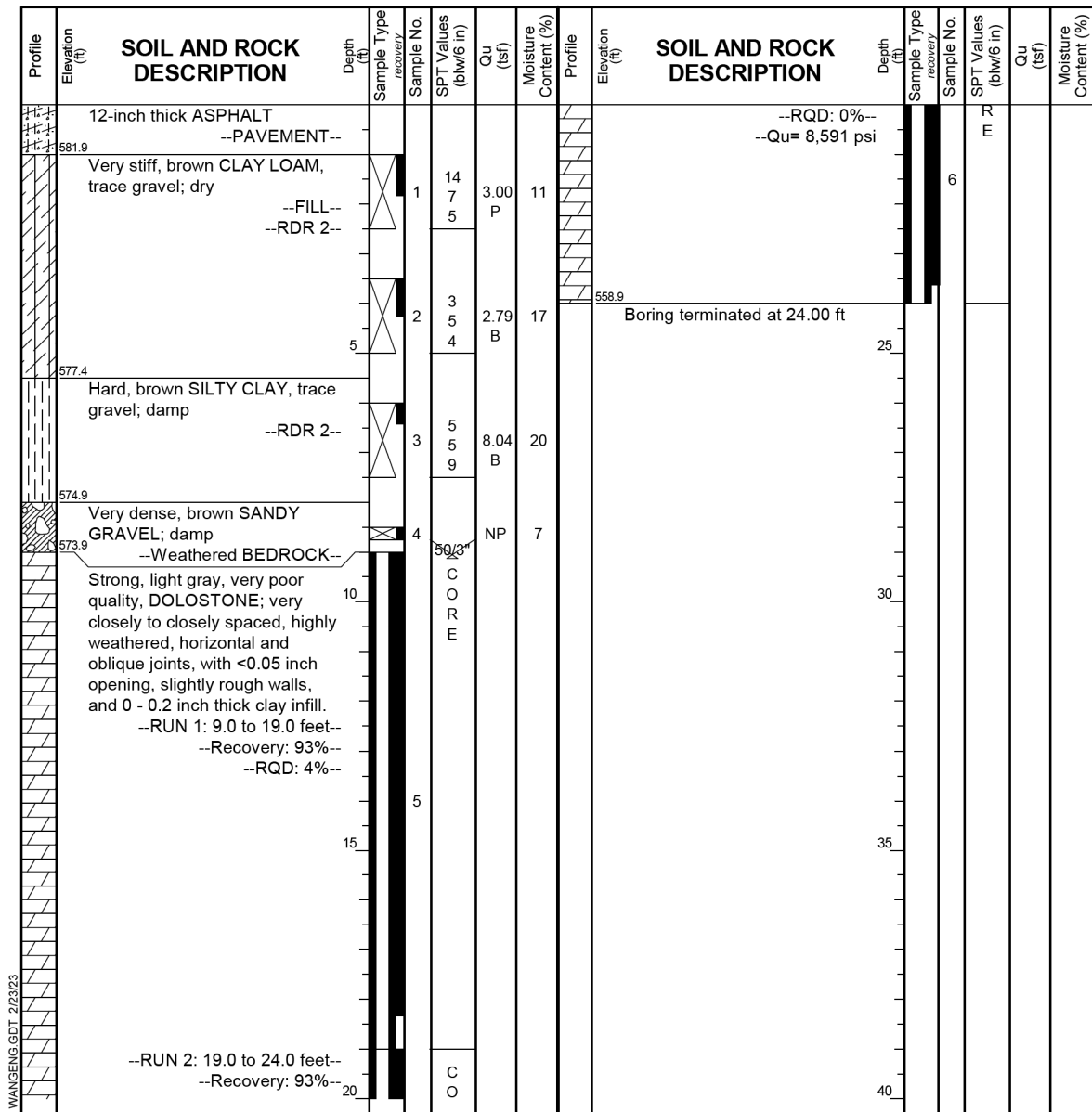
Wang Engineering
 wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630 953-9928
 Fax: 630 953-9938

BORING LOG AA-BSB-02
 WEI Job No.: 255-39-01

Datum: NAVD 88
 Elevation: 582.90 ft
 North: 1754571.00 ft
 East: 1021513.55 ft
 Station: 23+99.7
 Offset: 21.4 RT

Client: **Stantec**
 Project: **I-80 Reconstruction, Ridge Road to Houbolt Road**
 Location: **Will County, Illinois**

Page 1 of 1



GENERAL NOTES				WATER LEVEL DATA			
Begin Drilling	01-16-2023	Complete Drilling	01-16-2023	While Drilling	▽	DRY	
Drilling Contractor	Wang Testing Services	Drill Rig	17B57T [91%]	At Completion of Drilling	▼	DRY	
Driller	KG&TC	Logger	B. Miller	Time After Drilling	NA		
Checked by	C. Marin	Drilling Method	3.25" ID HSA; boring backfilled upon completion	Depth to Water	▽	NA	
The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.							

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 7/18/2024 6:03:21 PM



USER NAME = eoskou	DESIGNED - LRG	REVISD -
PLOT SCALE =	CHECKED - DTS	REVISD -
PLOT DATE = 7/18/2024	DRAWN - LRG	REVISD -
	CHECKED - DTS	REVISD -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SOIL BORINGS (1 OF 4)
 STRUCTURE NO. 099-8330

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	FAI 80 21 STRUCTURE 5	WILL	525	381
CONTRACT NO. 62R26				
ILLINOIS FED. AID PROJECT				

SHEET SB-31 OF SB-34 SHEETS

Wang Engineering
 wangeng@wangeng.com
 1145 N Main Street
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 Fax: 630 953-9938

BORING LOG AA-BSB-03
 WEI Job No.: 255-39-01
 Client: **Stantec**
 Project: **I-80 Reconstruction, Ridge Road to Houbolt Road**
 Location: **Will County, Illinois**

Datum: NAVD 88
 Elevation: 580.62 ft
 North: 1754566.58 ft
 East: 1021605.88 ft
 Station: 24+89.4
 Offset: 26.6 RT

Page 1 of 1

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
580.0	8-inch thick, brown SILTY CLAY, trace gravel; damp --TOPSOIL--						580.0	--RQD: 61%--		6			
577.6	Very stiff, brown CLAY LOAM to SILTY CLAY LOAM, trace gravel; damp --FILL-- --RDR 2--	1	3	2.00	18		558.1	Boring terminated at 22.50 ft					
575.1	Very stiff, brown and gray SILTY CLAY, trace gravel; damp --RDR 2--	2	4	2.95	24								
574.1	Very stiff, gray SILTY LOAM, trace gravel; wet --RDR 2--	3	6	2.50	12								
573.1	Very dense, orange and gray Sandy GRAVEL; damp --Weathered BEDROCK--			50/5"									
	Strong, light brown and gray, very poor to fair rock mass quality, cherty and vuggy, slightly weathered DOLOSTONE; closely to very closely spaced, moderately weathered joints, mainly horizontal joints, with <0.05 inch opening, slightly rough walls, and <0.2 inch thick clay infill. --RUN 1: 7.5 to 17.5 feet-- --Recovery: 99%-- --RQD: 0%--	10											
	--RUN 2: 17.5 to 19.0 feet-- --Recovery: 92%-- --RQD: 26%-- --Qu=9,120 psi--	15											
	--RUN 3: 19.0 to 22.5.0 feet-- --Recovery: 93%--	20											

GENERAL NOTES				WATER LEVEL DATA			
Begin Drilling	12-08-2022	Complete Drilling	12-19-2022	While Drilling	▽	6.00 ft	
Drilling Contractor	Wang Testing Services	Drill Rig	21D120A[78%]	At Completion of Drilling	▽	5.00 ft	
Driller	RR&JD	Logger	B. Miller	Checked by	C. Marin	Time After Drilling	NA
Drilling Method	3.25" ID HSA; boring backfilled upon completion			Depth to Water	▽	NA	
The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.							

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 wangeng@wangeng.com
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 Fax: 630 953-9938

BORING LOG AA-RWB-07
 WEI Job No.: 255-39-01
 Client: **Stantec**
 Project: **I-80 Reconstruction, Ridge Road to Houbolt Road**
 Location: **Will County, Illinois**

Datum: NAVD 88
 Elevation: 579.51 ft
 North: 1754564.37 ft
 East: 1021398.40 ft
 Station: 22+95.86
 Offset: 39.73 RT

Page 1 of 1

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
578.6	11-inch thick, brown SILTY CLAY, trace gravel; damp --TOPSOIL--						578.6						
576.5	Hard, brown and gray SILTY CLAY, trace gravel; damp to moist --RDR 2--	1	5	6.07	22								
574.0	Hard, brown and gray SILTY LOAM, trace gravel; damp to wet --RDR 2-- --L _i (%)=24, P _i (%)=17-- --%Gravel=4.0-- --%Sand=16.1-- --%Silt=66.7-- --%Clay=13.2--	2	5	5.33	18								
571.5	Very dense, brown and gray LOAM, little to some gravel; wet --RDR 2-3--	3	14	NP	7								
	--AUGER REFUSAL-- Boring terminated at 8.00 ft	10											

GENERAL NOTES				WATER LEVEL DATA			
Begin Drilling	12-22-2022	Complete Drilling	12-22-2022	While Drilling	▽	6.00 ft	
Drilling Contractor	Wang Testing Services	Drill Rig	21D120A[78%]	At Completion of Drilling	▽	NA	
Driller	NC&DZ	Logger	B. Miller	Checked by	C. Marin	Time After Drilling	120 hours
Drilling Method	3.25" ID HSA; boring backfilled upon completion			Depth to Water	▽	3.00 ft	
The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.							

MODEL: Default
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 WANGENGINC_2553901.GPJ, WANGENG.GDT, 2/23/23



USER NAME = eoskou	DESIGNED - LRG	REVISED -
PLOT SCALE =	CHECKED - DTS	REVISED -
PLOT DATE = 7/18/2024	DRAWN - LRG	REVISED -
	CHECKED - DTS	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SOIL BORINGS (2 OF 4)
 STRUCTURE NO. 099-8330

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	FAI 80 21 STRUCTURE 5	WILL	525	382
CONTRACT NO. 62R26				
ILLINOIS FED. AID PROJECT				

SHEET 5B-32 OF 5B-34 SHEETS

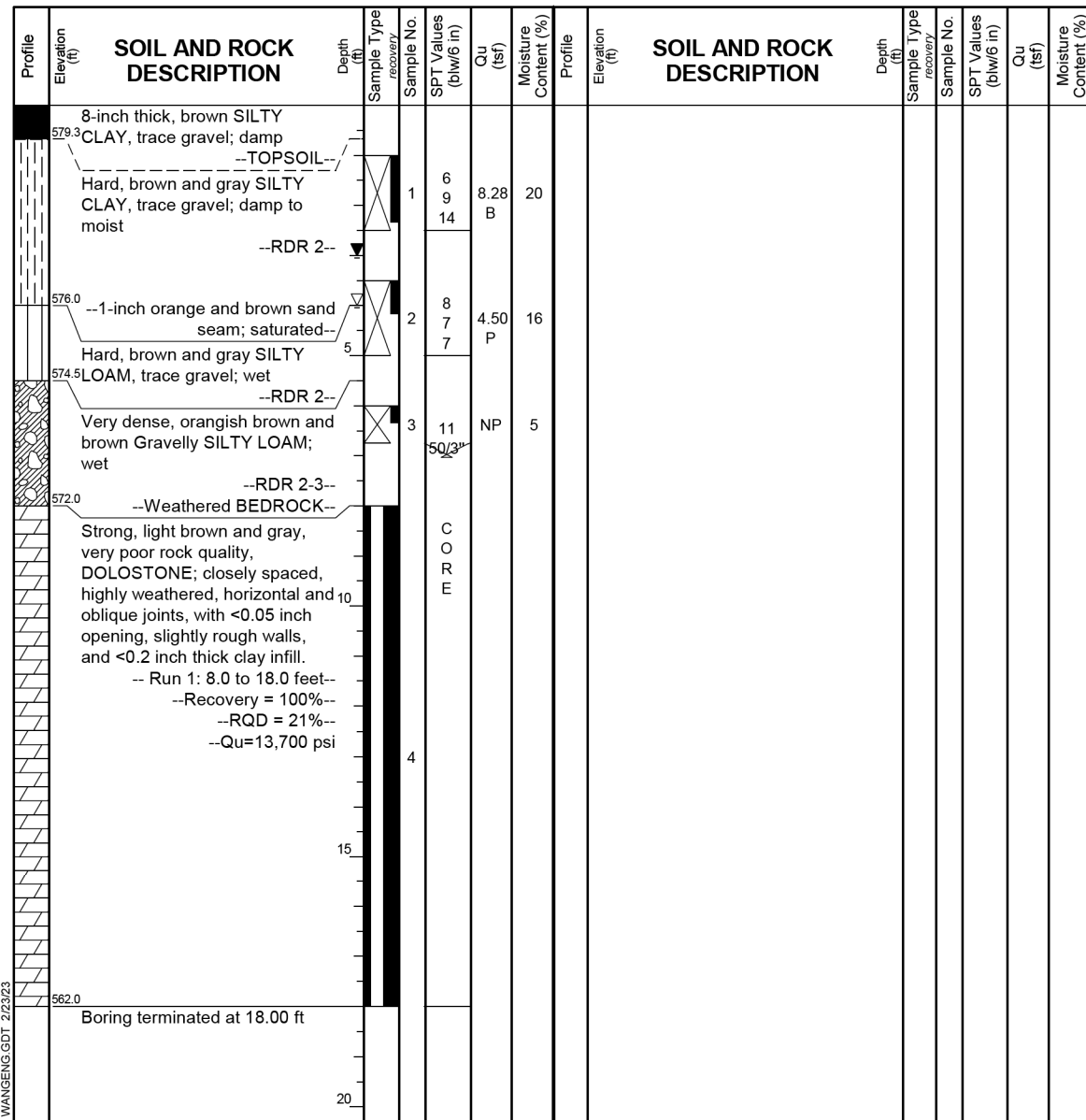
Wang Engineering
 wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630 953-9928
 Fax: 630 953-9938

BORING LOG AA-RWB-08
 WEI Job No.: 255-39-01

Datum: NAVD 88
 Elevation: 579.99 ft
 North: 1754651.16 ft
 East: 1021396.65 ft
 Station: 22+72.06
 Offset: 44.14 LT

Client: **Stantec**
 Project: **I-80 Reconstruction, Ridge Road to Houbolt Road**
 Location: **Will County, Illinois**

Page 1 of 1



GENERAL NOTES				WATER LEVEL DATA			
Begin Drilling	12-22-2022	Complete Drilling	12-22-2022	While Drilling	▽	4.00 ft	
Drilling Contractor	Wang Testing Services	Drill Rig	21D120A[78%]	At Completion of Drilling	▼	3.00 ft	
Driller	NC&DZ	Logger	B. Miller	Checked by	C. Marin		
Drilling Method	3.25" ID HSA; boring backfilled upon completion			Time After Drilling	NA		
				Depth to Water	▽	NA	
The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.							

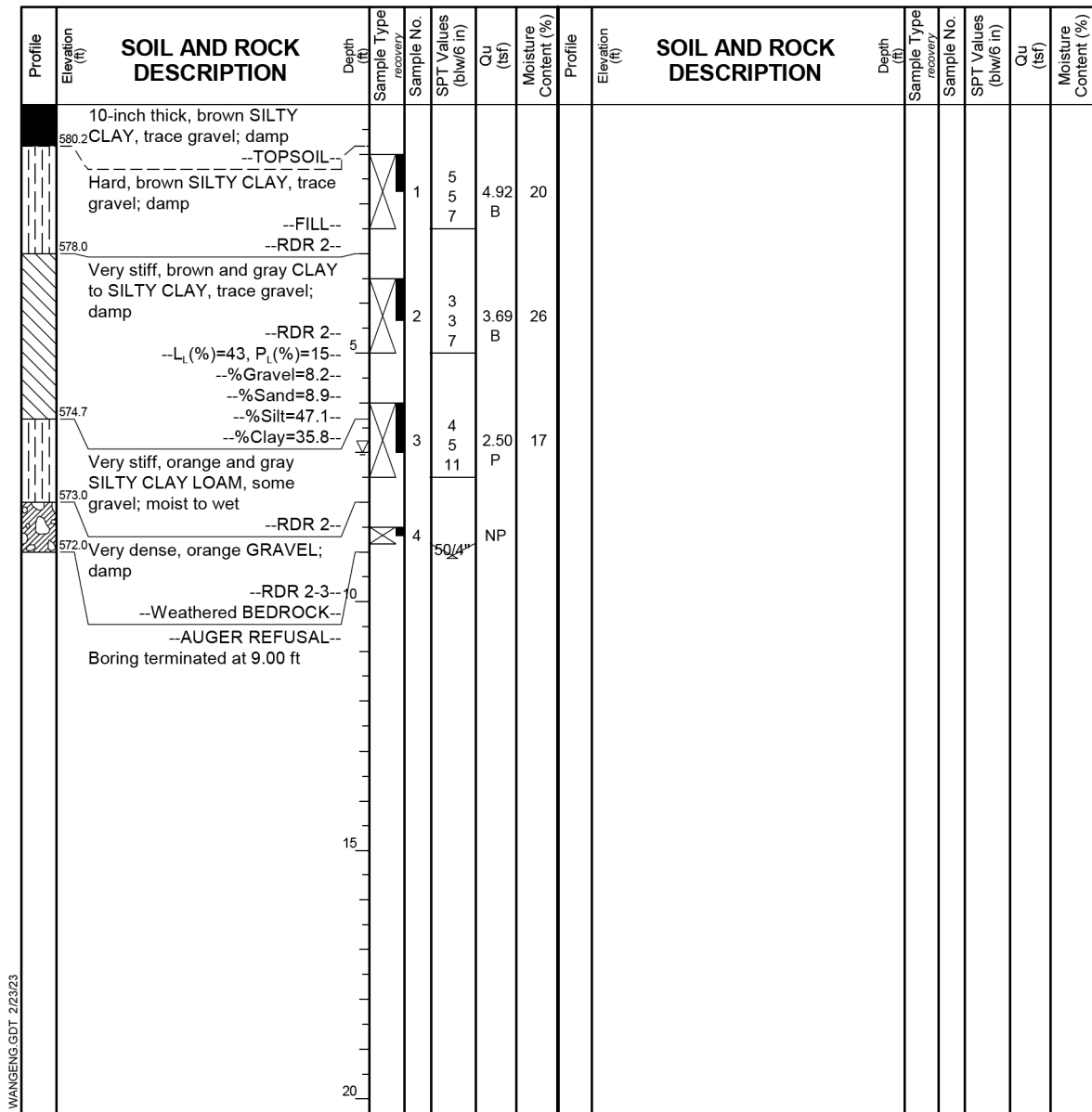
Wang Engineering
 wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630 953-9928
 Fax: 630 953-9938

BORING LOG AA-RWB-09
 WEI Job No.: 255-39-01

Datum: NAVD 88
 Elevation: 581.02 ft
 North: 1754614.76 ft
 East: 1021605.81 ft
 Station: 24+92.4
 Offset: 21.5 LT

Client: **Stantec**
 Project: **I-80 Reconstruction, Ridge Road to Houbolt Road**
 Location: **Will County, Illinois**

Page 1 of 1



GENERAL NOTES				WATER LEVEL DATA			
Begin Drilling	12-28-2022	Complete Drilling	12-28-2022	While Drilling	▽	7.00 ft	
Drilling Contractor	Wang Testing Services	Drill Rig	21D120A[78%]	At Completion of Drilling	▼	NA	
Driller	NC&DZ	Logger	B. Miller	Checked by	C. Marin		
Drilling Method	3.25" ID HSA; boring backfilled upon completion			Time After Drilling	24 hours		
				Depth to Water	▽	Dry (cave in 3 ft)	
The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.							

MODEL: Default
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 WANGENGINC 2553901.GPJ WANGENG.GDT 2/23/23



USER NAME = eoskou	DESIGNED - LRG	REVISED -
PLOT SCALE =	CHECKED - DTS	REVISED -
PLOT DATE = 7/18/2024	DRAWN - LRG	REVISED -
	CHECKED - DTS	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SOIL BORINGS (3 OF 4)
 STRUCTURE NO. 099-8330

SHEET SB-33 OF SB-34 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	FAI 80 21 STRUCTURE 5	WILL	525	383
CONTRACT NO. 62R26				
ILLINOIS		FED. AID PROJECT		



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1145 N Main Street
Lombard, IL 60148
Telephone: 630 953-9928
Fax: 630 953-9938

BORING LOG AA-RWB-10

WEI Job No.: 255-39-01

Client: **Stantec**
Project: **I-80 Reconstruction, Ridge Road to Houbolt Road**
Location: **Will County, Illinois**

Datum: NAVD 88
Elevation: 580.19 ft
North: 1754526.15 ft
East: 1021606.17 ft
Station: 24+87.4
Offset: 67.0 RT

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blows/6 in)	Qu (tsf)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blows/6 in)	Qu (tsf)	Moisture Content (%)
579.4	10-inch thick, brown SILTY CLAY, trace gravel; damp --TOPSOIL--														
	Stiff, brown SILTY CLAY, trace gravel; damp --RDR 2--	1		1	3 4 6	1.64 B	28								
	--L _L (%)=49, P _L (%)=17-- --%Gravel=2.5-- --%Sand=11.9-- --%Silt=54.1-- --%Clay=31.5--														
574.7	(4.5P) Hard, brown SILTY LOAM, trace gravel; damp --RDR 2-3--	2		2	2 3 6	1.56 B	21								
573.8	Very dense, orangish brown and gray GRAVEL; wet --some clay-- --Weathered BEDROCK--	3		3	42 50/3"	NP	12								
572.7	Strong, light gray, very poor rock quality, DOLOSTONE; closely spaced, highly weathered, horizontal and vertical joints, with <0.05 inch opening, slightly rough walls, and <0.2 inch thick clay infill. -- Run 1: 7.5 to 17.5 feet-- --Recovery = 100%-- --RQD = 8%--	4		4											
562.7	Boring terminated at 17.50 ft	17.5													

WANGENG\INC_2553901.GPJ WANGENG.GDT 2/23/23

GENERAL NOTES

Begin Drilling: **12-28-2022** Complete Drilling: **12-29-2022**
Drilling Contractor: **Wang Testing Services** Drill Rig: **21D120A[78%]**
Driller: **NC&DZ** Logger: **B. Miller** Checked by: **C. Marin**
Drilling Method: **3.25" ID HSA; boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **6.50 ft**
At Completion of Drilling: **NA**
Time After Drilling: **24 hours**
Depth to Water: **7.00 ft**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

MODEL: Default FILE NAME: pw://transystems-pw.bentley.com/transystems-pw1-hosted/Documents/Projects_2018/CH401/401180022/01-Stantec/CAD/INT-02_62R26/04-Sheet/04-Structures/0998330_1-55 Ramp, AA Over 1-55/Final/0998330-62R26-048-Soil Boring (4 of 6).dgn



USER NAME = eoskou	DESIGNED - LRG	REVISED -
PLOT SCALE =	CHECKED - DTS	REVISED -
PLOT DATE = 7/18/2024	DRAWN - LRG	REVISED -
	CHECKED - DTS	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORINGS (4 OF 4)
STRUCTURE NO. 099-8330

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	FAI 80 21 STRUCTURE 5	WILL	525	384
CONTRACT NO. 62R26				

SHEET SB-34 OF SB-34 SHEETS

ILLINOIS FED. AID PROJECT

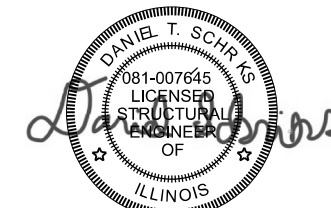
Benchmark: Set 2" CWA aluminum disc in concrete base of light pole on north side of westbound I-80, approximately 250'± east of mile marker 126 & 950'± west of I-55 centerline. Elev. 609.80

Existing Structure: None
 Traffic Control: None
 No Salvage.

DESIGN SPECIFICATIONS
 2020 AASHTO LRFD Bridge Design
 Specifications, 9th Edition

DESIGN STRESSES

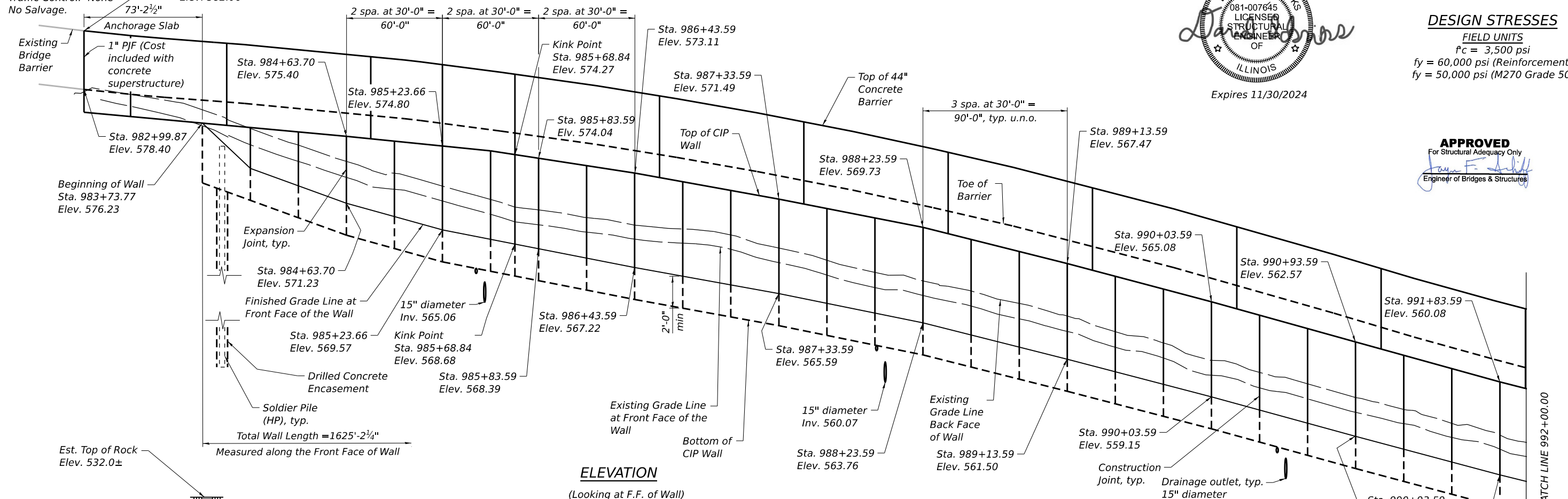
FIELD UNITS
 $f_c = 3,500$ psi
 $f_y = 60,000$ psi (Reinforcement)
 $f_y = 50,000$ psi (M270 Grade 50)



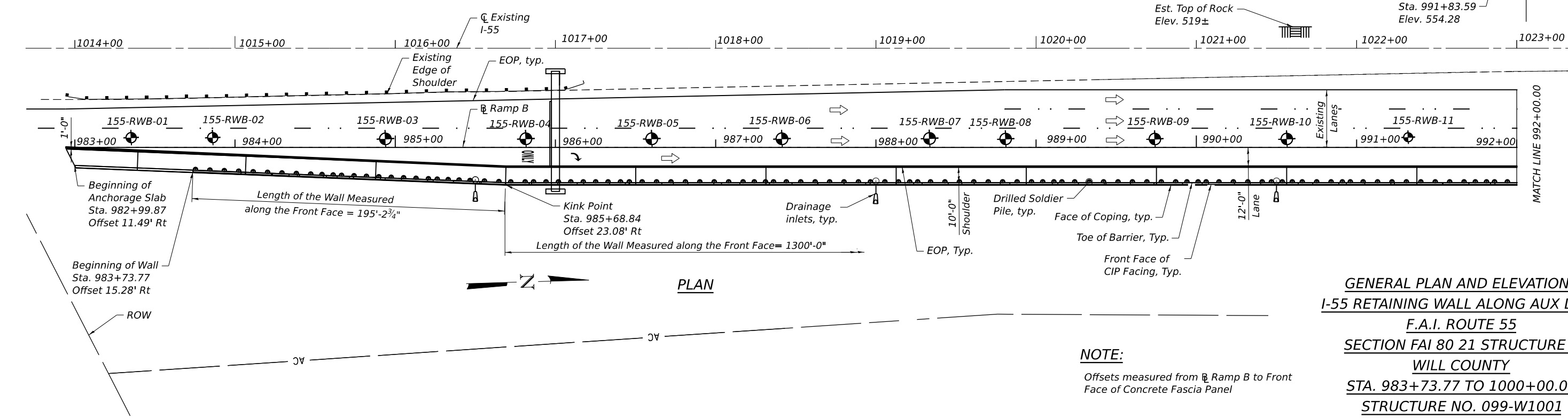
Expires 11/30/2024

APPROVED
 For Structural Adequacy Only

Engineer of Bridges & Structures



ELEVATION
 (Looking at F.F. of Wall)



PLAN

NOTE:
 Offsets measured from Ramp B to Front Face of Concrete Fascia Panel

**GENERAL PLAN AND ELEVATION I
 I-55 RETAINING WALL ALONG AUX LANE
 F.A.I. ROUTE 55
 SECTION FAI 80 21 STRUCTURE 5
 WILL COUNTY
 STA. 983+73.77 TO 1000+00.00
 STRUCTURE NO. 099-W1001**

MODEL: Default
 FILE NAME: p:\transystems-pw\benley.com\transystems-pw\l-hosted\Documents\Projects_2018\CH401\401180022\01-Structures\099W1001-Ramp_AA Retaining Wall\Final\099W1001-62R26-001-GPE.dgn



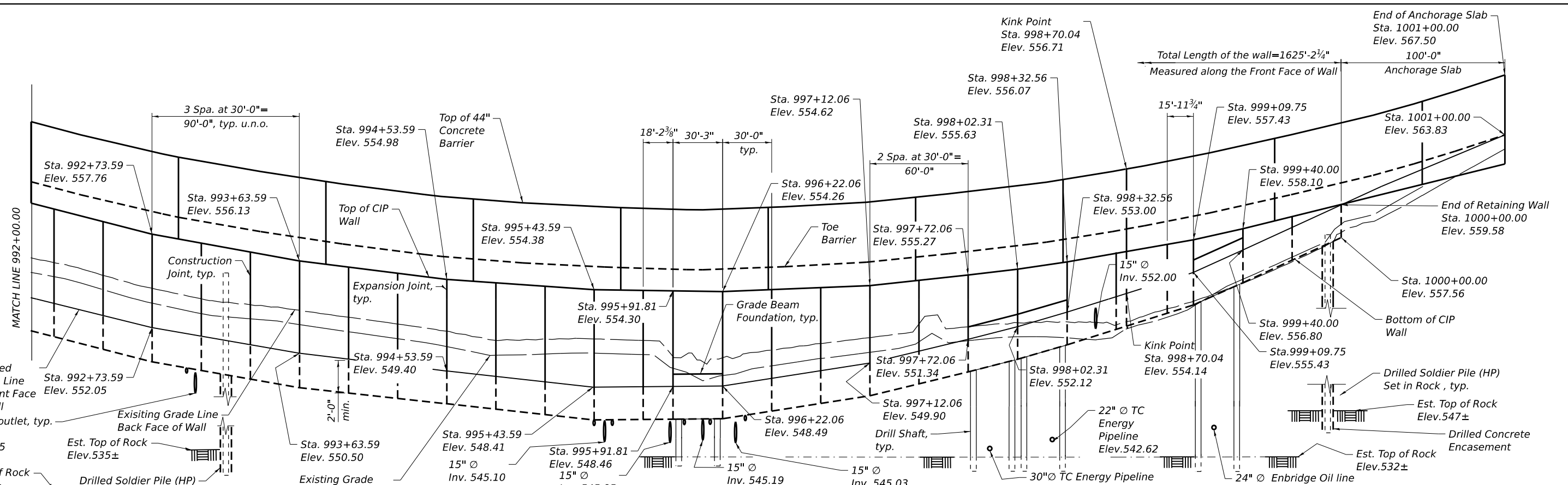
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PLOT SCALE = 64.0000' / in.	CHECKED - CRS	REVISED -
PLOT DATE = 8/16/2024	DRAWN - SD	REVISED -
	CHECKED - CRS	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

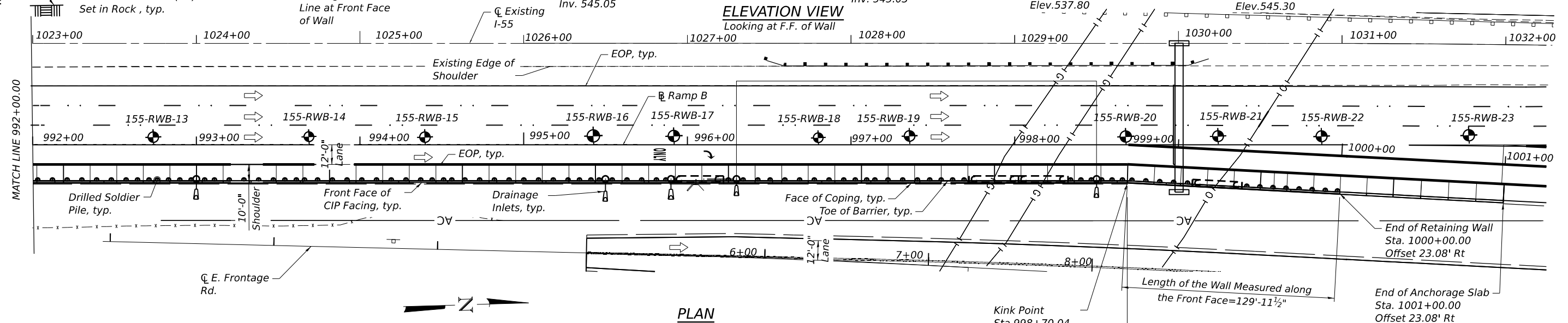
**GENERAL PLAN AND ELEVATION (1 OF 2)
 STRUCTURE NO. 099-W1001**

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	FAI 80 21 STRUCTURE 5	WILL	525	385
CONTRACT NO. 62R26				
		ILLINOIS	FED. AID PROJECT	

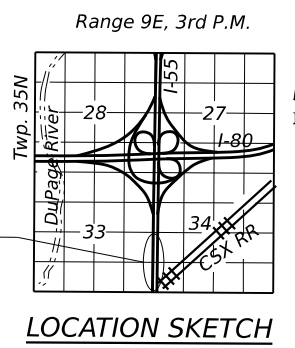
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 FILE NAME: pw://transsystems-pw.bentley.com/transcorp-pw1-hosted/Documents/Projects_2018/CH401/401180022/01-Structures/099W1001-62R26-002-GPE 2.dgn



ELEVATION VIEW
 Looking at F.F. of Wall



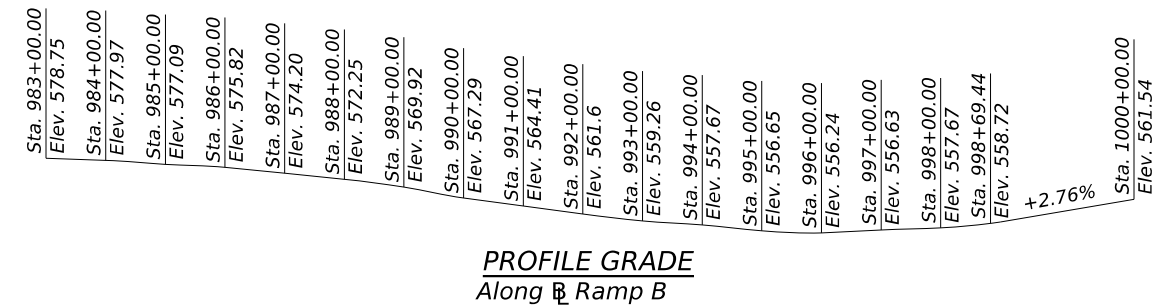
PLAN



LOCATION SKETCH

LEGEND

- E — Existing Electrical Line
- FO — Existing Fiber Optic Line
- T — Existing Telephone
- G — Existing Gas
- O — Existing Oil
- ⊕ Soil Boring
- ⊙ Existing Light Pole



PROFILE GRADE
 Along Ramp B

NOTE:
 Offsets measured from Ramp B to Front Face of CIP Wall

GENERAL PLAN AND ELEVATION II
I-55 RETAINING WALL ALONG AUX LANE
F.A.I. ROUTE 55
SECTION FAI 80 21 STRUCTURE 5
WILL COUNTY
STA. 983+73.77 TO 1000+00
STRUCTURE NO. 099-W1001



USER NAME = eoskouf	DESIGNED - SD	REVISED -
PLOT SCALE = 64.0000' / 1 in.	CHECKED - CRS	REVISED -
PLOT DATE = 8/12/2024	DRAWN - SD	REVISED -
	CHECKED - CRS	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN AND ELEVATION (2 OF 2)
STRUCTURE NO. 099-W1001

F.A.I. RTE. 55	SECTION FAI 80 21 STRUCTURE 5	COUNTY WILL	TOTAL SHEETS 525	SHEET NO. 386
CONTRACT NO. 62R26				
ILLINOIS FED. AID PROJECT				

SHEET SA-02 OF SA-32 SHEETS

GENERAL NOTES:

- Reinforcement bars designated (E) shall be epoxy coated.
- Concrete sealer shall be applied to exposed surfaces of the new wall and back face of anchorage slab.
- Protective coat shall be applied to top of anchorage slab, front face of barrier, and top of barrier.
- Wall to be built along straight chords between any two adjacent construction joints and/or expansion joints.
- It shall be the Contractor's responsibility to verify locations of all utilities in the field prior to construction activities and to ensure that construction activities do not have detrimental effects on adjacent utilities and other facilities. Any damage to existing utilities and/or facilities caused by the Contractor in the performance of his or her work shall be repaired by the Contractor, to the satisfaction of the Engineer, at no cost to the Department.
- The Contractor is responsible for the design and performance of the lagging using no less than a 3 in. nominal rough-sawn thickness and timber with a minimum allowable bending stress of 1000 psi.
- A layer of weathered bedrock is present at the project site as indicated in the Soil Boring Logs. The Contractor shall provide a method to ensure the soldier piles achieve at least the plan tip elevations.

INDEX OF SHEETS

- SA-01 General Plan and Elevation (1 of 2)
- SA-02 General Plan and Elevation (2 of 2)
- SA-03 General Notes, Index of Sheets & Bill of Material
- SA-04 Wall Layout (1 of 4)
- SA-05 Wall Layout (2 of 4)
- SA-06 Wall Layout (3 of 4)
- SA-07 Wall Layout (4 of 4)
- SA-08 Anchorage Slab Plan and Elevation (1 of 2)
- SA-09 Anchorage Slab Plan and Elevation (2 of 2)
- SA-10 Wall Cross Section and Detail
- SA-11 Drilled Shaft Details
- SA-12 Pile Layout
- SA-13 Anchorage Slab Details and Bill of Material
- SA-14 HP Pile Details
- SA-15 Slipforming Details
- SA-16 Soil Borings (1 of 17)
- SA-17 Soil Borings (2 of 17)
- SA-18 Soil Borings (3 of 17)
- SA-19 Soil Borings (4 of 17)
- SA-20 Soil Borings (5 of 17)
- SA-21 Soil Borings (6 of 17)
- SA-22 Soil Borings (7 of 17)
- SA-23 Soil Borings (8 of 17)
- SA-24 Soil Borings (9 of 17)
- SA-25 Soil Borings (10 of 17)
- SA-26 Soil Borings (11 of 17)
- SA-27 Soil Borings (12 of 17)
- SA-28 Soil Borings (13 of 17)
- SA-29 Soil Borings (14 of 17)
- SA-30 Soil Borings (15 of 17)
- SA-31 Soil Borings (16 of 17)
- SA-32 Soil Borings (17 of 17)

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Structure Excavation	Cu. Yd.	462.6
Concrete Structures	Cu. Yd.	460.1
Concrete Superstructure	Cu. Yd.	1274.4
Protective Coat	Sq. Yd.	2,204
Stud Shear Connectors	Each	1,221
Reinforcement Bars, Epoxy Coated	Pound	278,210
Name Plates	Each	1
Permanent Casing	Foot	121
Drilled Shaft in Soil	Cu. Yd.	43.1
Drilled Shaft in Rock	Cu. Yd.	14.9
Furnishing Soldier Piles (HP Section)	Foot	4983
Drilling and Setting Soldier Piles (In Soil)	Cu. Ft.	17,247
Drilling and Setting Soldier Piles (In Rock)	Cu. Ft.	1,248
Untreated Timber Lagging	Sq. Ft.	8,491
Granular Backfill for Structures	Cu. Yd.	24.4
Concrete Sealer	Sq. Ft.	17,696
Geocomposite Wall Drain	Sq. Yd.	962
Concrete Headwalls for Pipe Drains	Each	9
Pipe Underdrains for Structures, 4"	Foot	1,626

SUGGESTED SEQUENCE OF CONSTRUCTION

- Locate all existing utilities that are to remain. The TC Energy pipelines shall be daylighted in the presence of TC Energy representatives. The Contractor shall coordinate any required improvements to, or removals of existing utilities with utility owner(s) and IDOT.
- Drill shaft excavations for Soldier Piles to specified bottom elevations maintaining required tolerances and hole stability.
- Remove loose material and excess water from excavated shafts. Place Soldier Piles in holes and properly locate and brace.
- Place Class DS Concrete in the holes to the level of the base of the proposed Concrete Facing, then place Controlled Low Strength Material (C.L.S.M) to the existing ground surface.
- After all concrete has attained the required design strength, excavate the soil in front of the wall to proposed grade with simultaneous removal of C.L.S.M. at the face of the Soldier Piles and place lagging as specified.
- Construct the drilled shafts and their connection beam over the TC Energy Lines, Enbridge Oil Line, or existing culvert.
- Construct wall drainage features at the base of the wall.
- Place shear studs on Soldier Piles and construct Concrete Facing.
- Construct anchorage slab and barrier.
- Complete final grading at the base of the wall.

STATION 983+73.77 RT TO STATION 1000+00.00
 BUILT 20-- BY
 STATE OF ILLINOIS
 F.A.I. RTE. 55 SEC. FAI 80 21 STRUCTURE 5
 LOADING HL-93
 STRUCTURE NO. 099-W1001

NAME PLATE
 See Std. 515001

MODEL: Default
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 8/12/2024 3:37:01 PM



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CHECKED - JZ	REVISIONS -	
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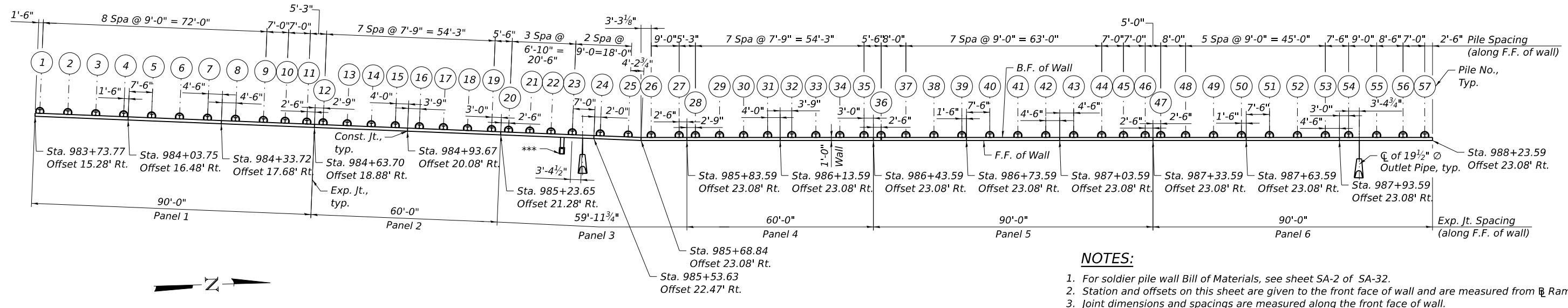
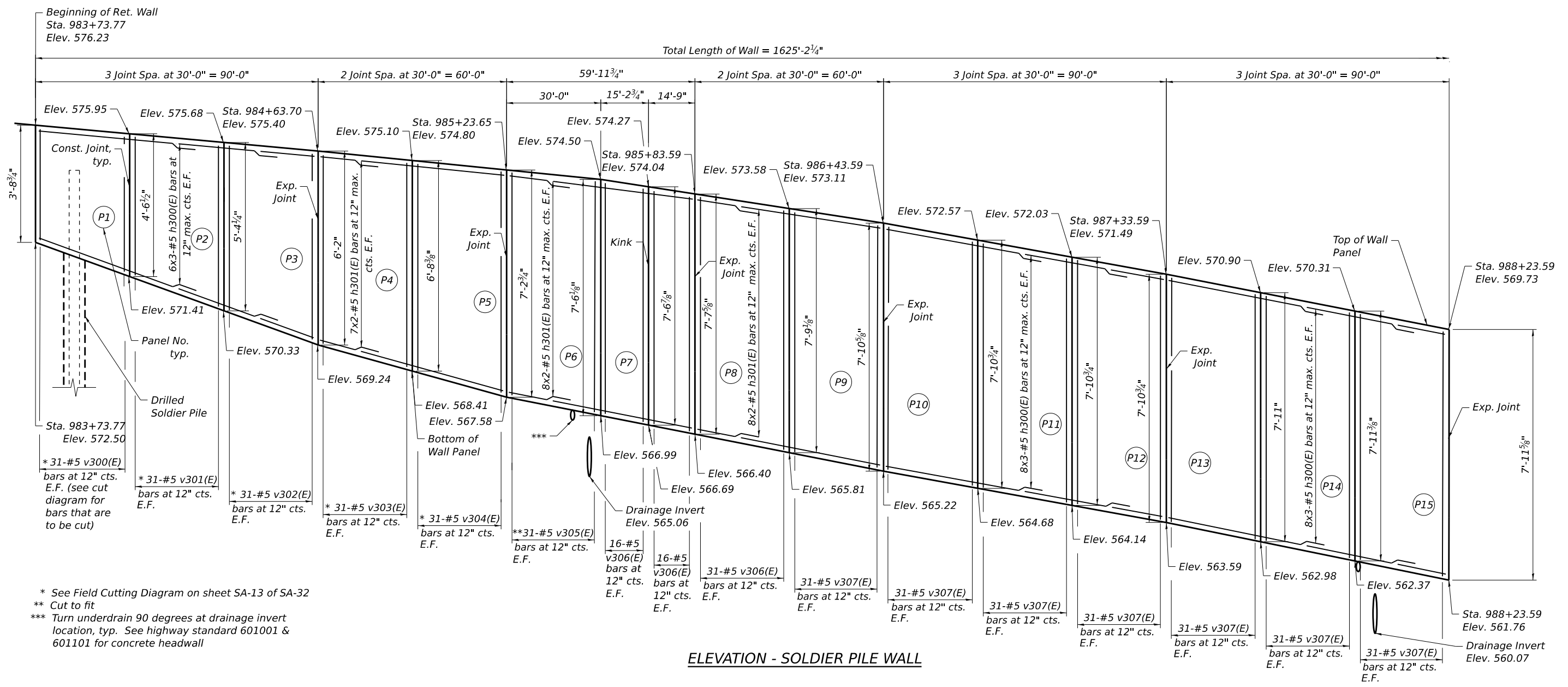
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**GENERAL NOTES, INDEX OF SHEETS & TOTAL BOM
 STRUCTURE NO. 099-W1001**

SHEET SA-03 OF SA-32 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	FAI 80 21 STRUCTURE 5	WILL	525	387
CONTRACT NO. 62R26				
		ILLINOIS	FED. AID PROJECT	

MODEL: Default
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 PROJECT: 099W1001-62R26-003-Plan and Elev_1.dgn



- NOTES:**
1. For soldier pile wall Bill of Materials, see sheet SA-2 of SA-32.
 2. Station and offsets on this sheet are given to the front face of wall and are measured from \square Ramp B.
 3. Joint dimensions and spacings are measured along the front face of wall.
 4. Pile dimensions and spacings are measured along the front face of wall.
 5. Pipe underdrains placed along wall shall be outletted to the ditch approximately every 500 ft or before drainage headwalls and at all low points and will be paid for as Concrete Headwalls for Pipe Drains.

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

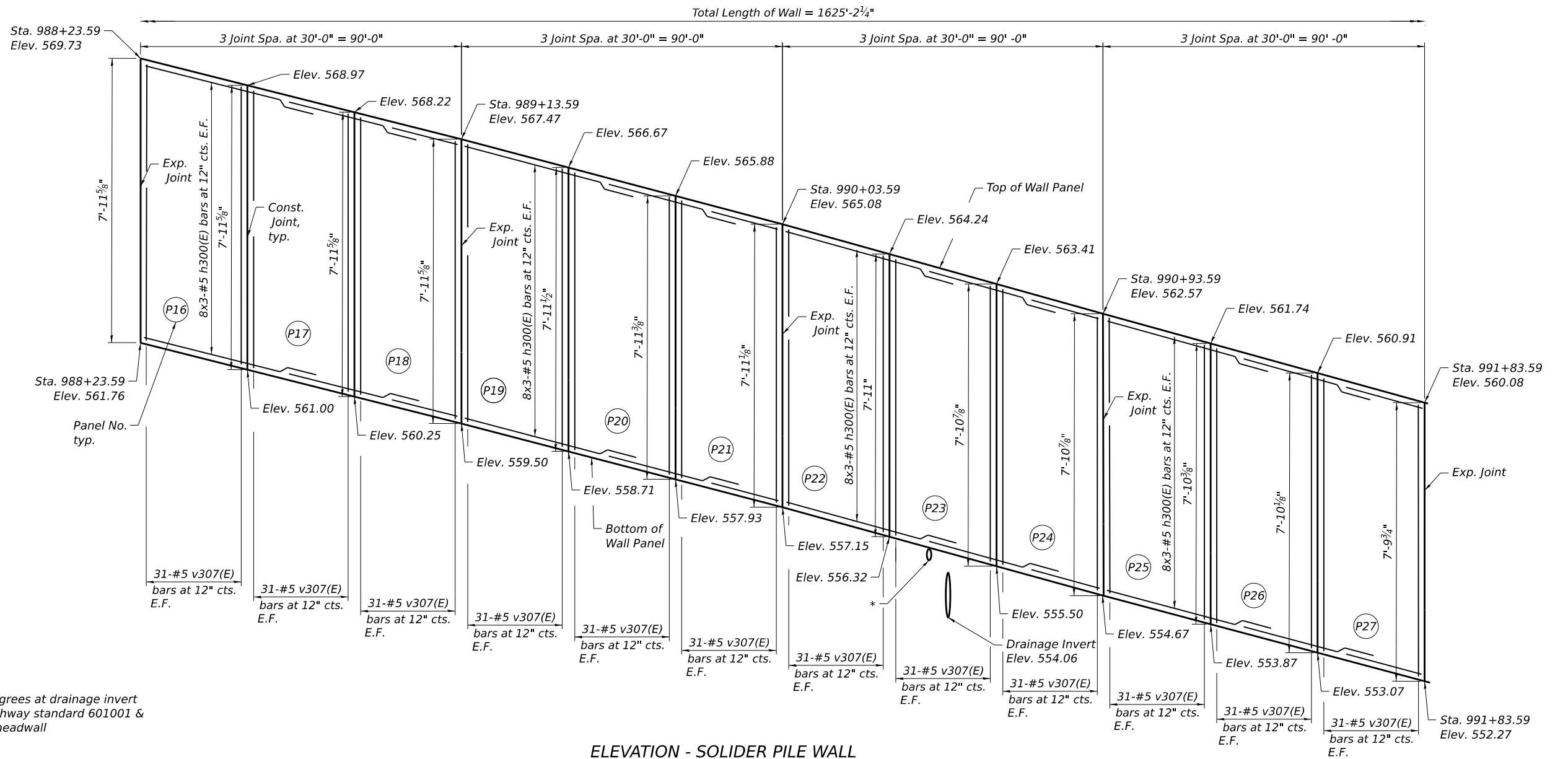
WALL LAYOUT (1 OF 4)
 STRUCTURE NO. 099-W1001



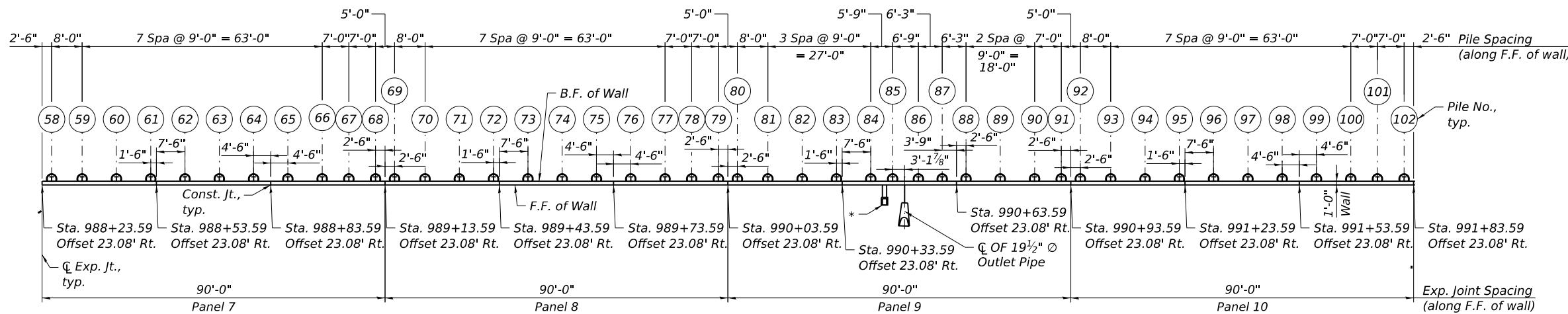
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PLOT DATE = 8/12/2024	DRAWN - LDI	REVISED -
	CHECKED - SHK	REVISED -

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	FAI 80 21 STRUCTURE 5	WILL	525	388
CONTRACT NO. 62R26				
ILLINOIS FED. AID PROJECT				

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* Turn underdrain 90 degrees at drainage invert location, typ. See highway standard 601001 & 601101 for concrete headwall



- NOTES:**
1. For soldier pile wall Bill of Materials, see sheet SA-2 of SA-32.
 2. Station and offsets on this sheet are given to the front face of wall and are measured from \mathbb{R} Ramp B.
 3. Joint dimensions and spacings are measured along the front face of wall.
 4. Pile dimensions and spacings are measured along the front face of wall.
 5. Pipe underdrains placed along wall shall be outletted to the ditch approximately every 500 ft or before drainage headwalls and at all low points and will be paid for as Concrete Headwalls for Pipe Drains.



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	CHECKED -	REVISED -
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PLOT DATE = 8/12/2024	CHECKED -	REVISED -

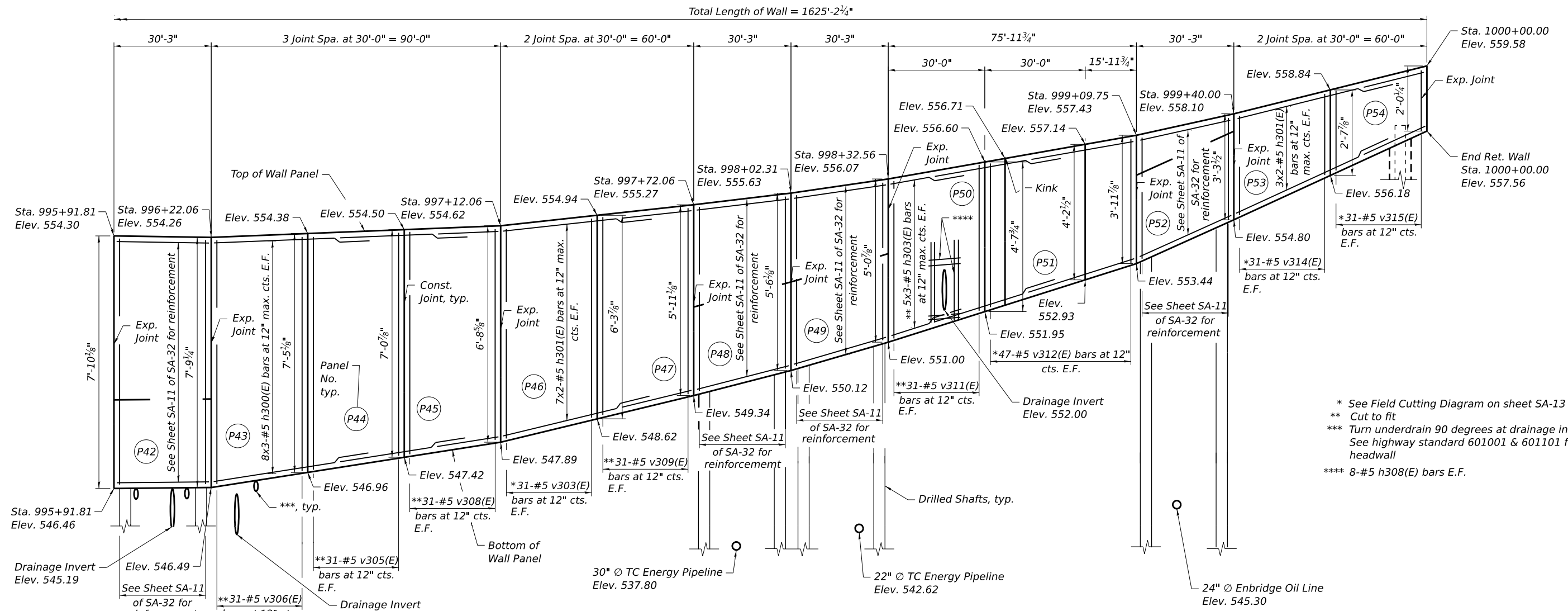
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**WALL LAYOUT (2 OF 4)
STRUCTURE NO. 099-W1001**

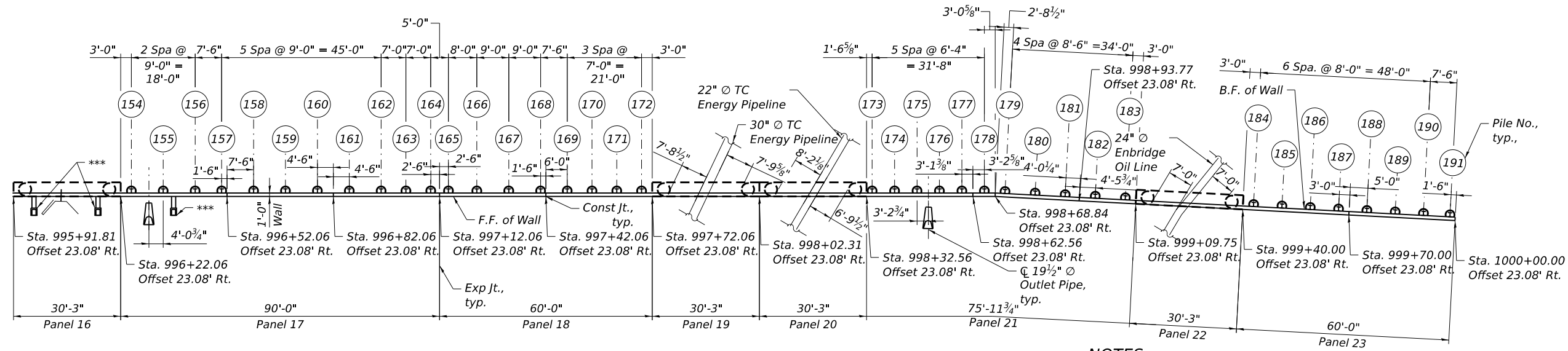
SHEET SA-05 OF SA-32 SHEETS

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CONTRACT NO. 62R26				
		ILLINOIS	FED. AID PROJECT	

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 8/16/2024 10:40:28 AM



ELEVATION - WALL



PLAN - WALL

- NOTES:**
1. For soldier pile wall Bill of Materials, see sheet SA-2 of SA-32.
 2. Station and offsets on this sheet are given to the front face of wall and are measured from \square Ramp B.
 3. Joint dimensions and spacings are measured along the front face of wall.
 4. Pile dimensions and spacings are measured along the front face of wall.
 5. Pipe underdrains placed along wall shall be outletted to the ditch approximately every 500 ft or before drainage headwalls and at all low points and will be paid for as Concrete Headwalls for Pipe Drains.



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PLOT DATE = 8/16/2024	DRAWN - LDI	REVISED -
	CHECKED - SHK	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WALL LAYOUT (4 OF 4)
STRUCTURE NO. 099-W1001
 SHEET SA-07 OF SA-32 SHEETS

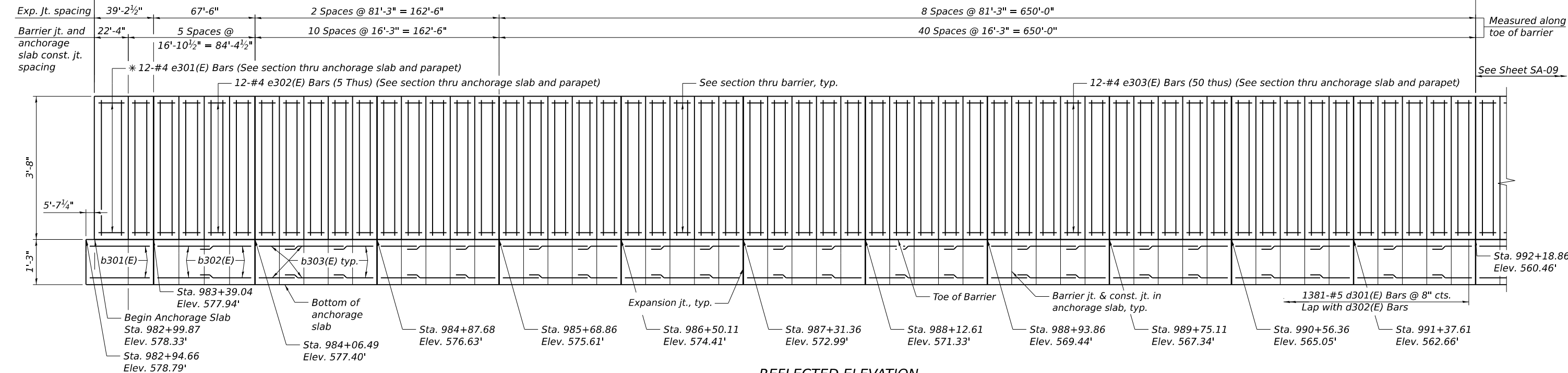
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55	FAI 80 21 STRUCTURE 5	WILL	525	391
CONTRACT NO. 62R26				
ILLINOIS FED. AID PROJECT				

MINIMUM BAR LAP:

#5 Bar: 3'-7"

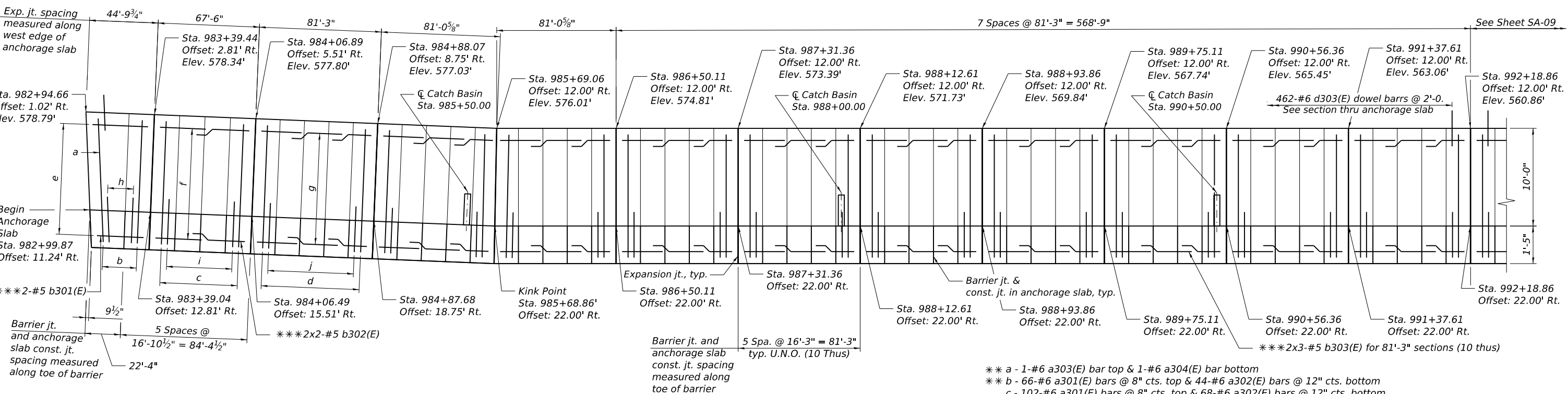
1,799'-2³/₈" Total length of anchorage slab measured along toe of barrier

919'-2¹/₂" Measured along toe of barrier



REFLECTED ELEVATION
(Looking at Front Face)

* Cut reinforcement in the field to fit.
** Flare bar along skewed edge
*** See section thru anchorage slab



PLAN

** a - 1-#6 a303(E) bar top & 1-#6 a304(E) bar bottom
** b - 66-#6 a301(E) bars @ 8" cts. top & 44-#6 a302(E) bars @ 12" cts. bottom
c - 102-#6 a301(E) bars @ 8" cts. top & 68-#6 a302(E) bars @ 12" cts. bottom
d - 122-#6 a301(E) bars @ 8" cts. top & 82-#6 a302(E) bars @ 12" cts. bottom for 81'-3" sections (10 thus)
* e - 12-#5 b301(E) bars @ 12" cts. top & bottom
f - 12x2-#5 b302(E) bars @ 12" cts. top & bottom
g - 12x3-#5 b303(E) bars @ 12" cts. top & bottom for 81'-3" sections (10 thus)
h - 59-#5 d302(E) bars @ 8" cts.
i - 102-#5 d302(E) bars @ 8" cts.
j - 122-#5 d302(E) bars @ 8" cts. for 81'-3" sections (10 thus)

MODEL: Default
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PLOT DATE = 8/12/2024	DRAWN - LRG	REVISED -
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ANCHORAGE SLAB PLAN AND ELEVATION (1 OF 2)
STRUCTURE NO. 099-W1001

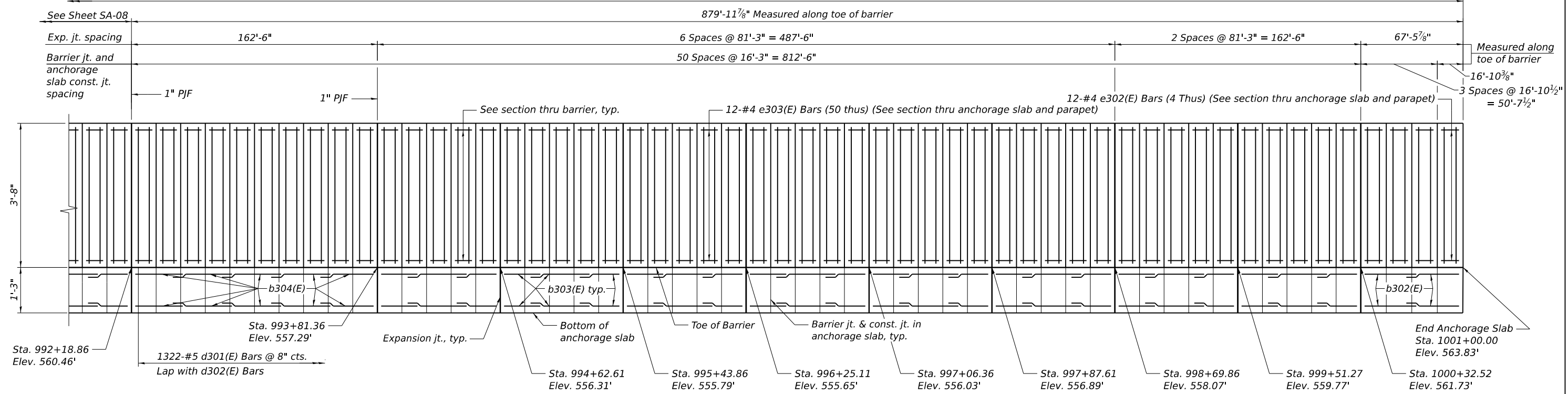
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55	FAI 80 21 STRUCTURE 5	WILL	525	392
CONTRACT NO. 62R26				
ILLINOIS		FED. AID PROJECT		

SHEET SA-08 OF SA-32 SHEETS

MINIMUM BAR LAP:

#5 Bar: 3'-7"

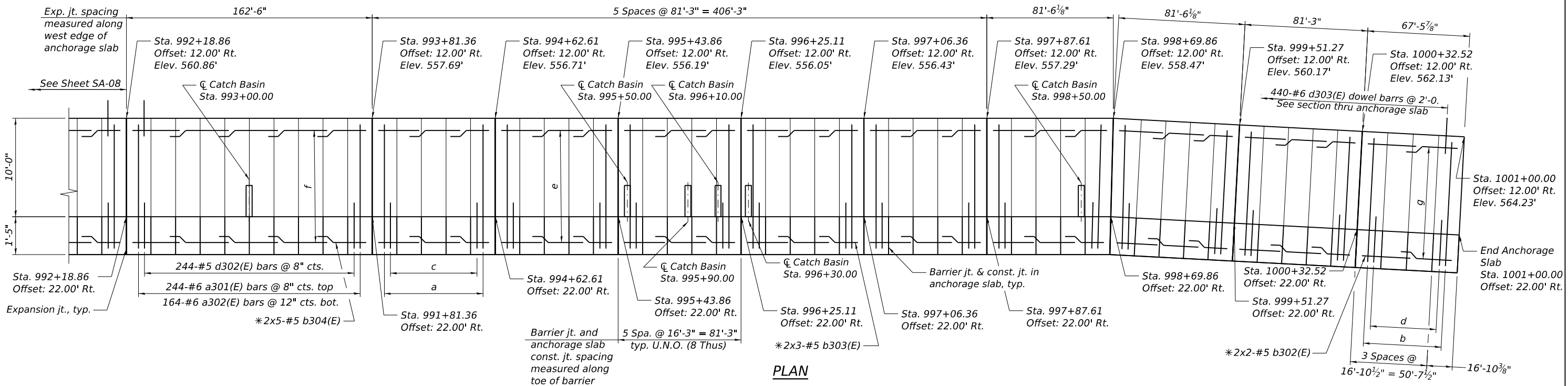
1,799'-2³/₈" Total length of anchorage slab measured along toe of barrier



REFLECTED ELEVATION

(Looking at Front Face)

* See section thru anchorage slab



PLAN

- a - 122-#6 a301(E) bars @ 8" cts. top & 82-#6 a302(E) bars @ 12" cts. bottom for 81'-3" sections (8 thus)
- b - 102-#6 a301(E) bars @ 8" cts. top & 68-#6 a302(E) bars @ 12" cts. bottom
- c - 122-#5 d302(E) bars @ 8" cts. for 81'-3" sections (8 thus)
- d - 102-#5 d302(E) bars @ 8" cts.
- e - 12x3-#5 b303(E) bars at 12" cts. top & bottom for 81'-3" sections (8 thus)
- f - 12x5-#5 b304(E) bars at 12" cts. top & bottom
- g - 12x2-#5 b302(E) bars @ 12" cts top and bottom

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USER NAME = eoskouf	DESIGNED -	REVISED -
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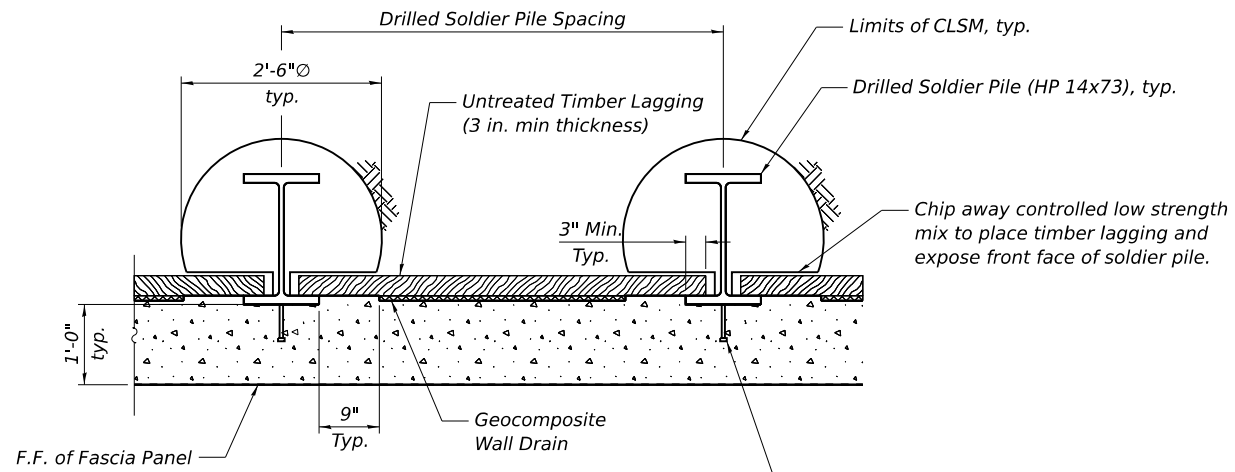
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ANCHORAGE SLAB PLAN AND ELEVATION (2 OF 2)
STRUCTURE NO. 099-W1001**

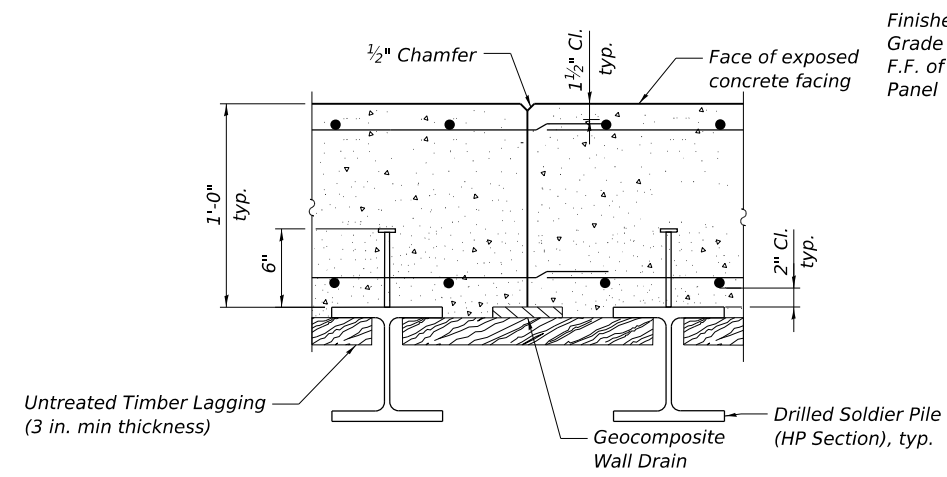
SHEET SA-09 OF SA-32 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 62R26				
		ILLINOIS	FED. AID PROJECT	

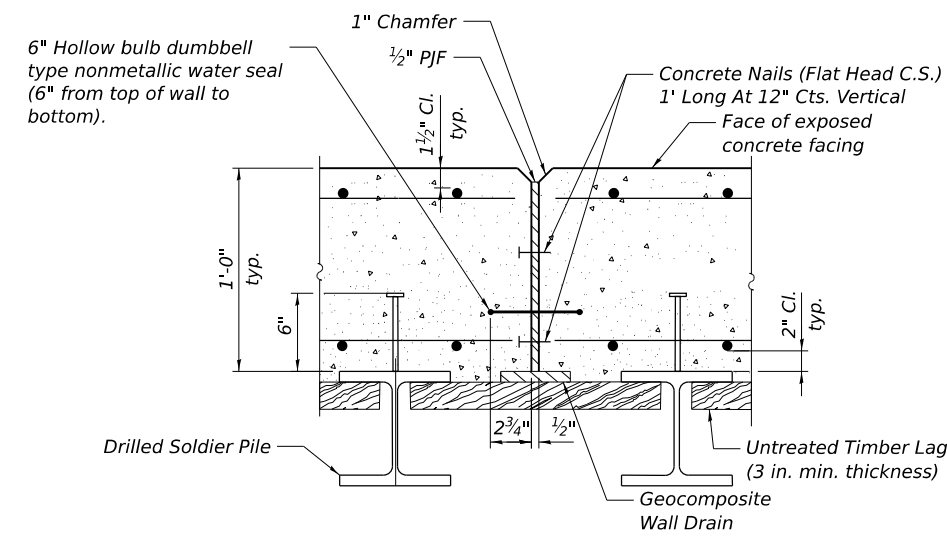
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SECTION A-A
 44" Single Face Barrier not shown for clarity

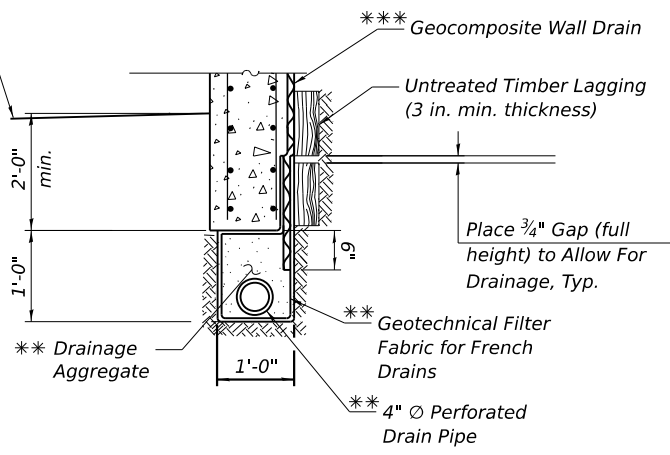


CONSTRUCTION JOINT DETAILS

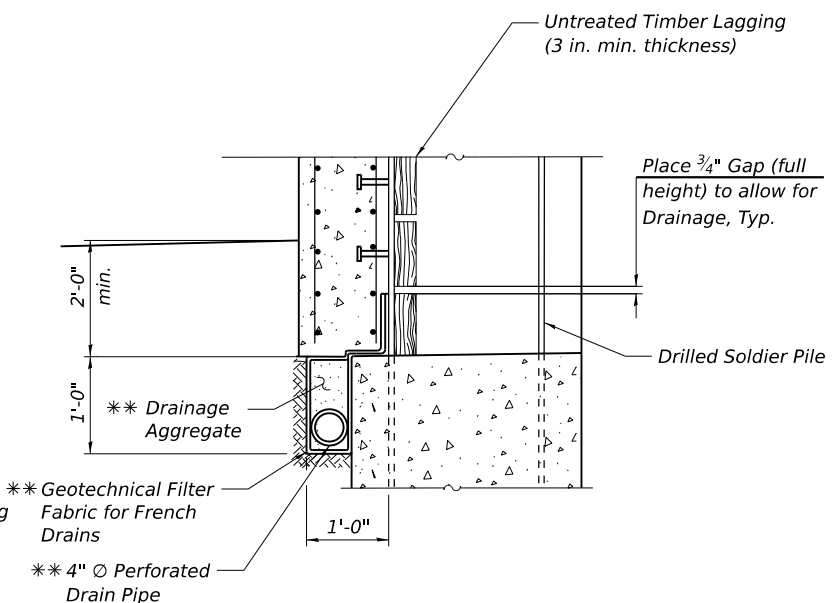


EXPANSION JOINT DETAILS

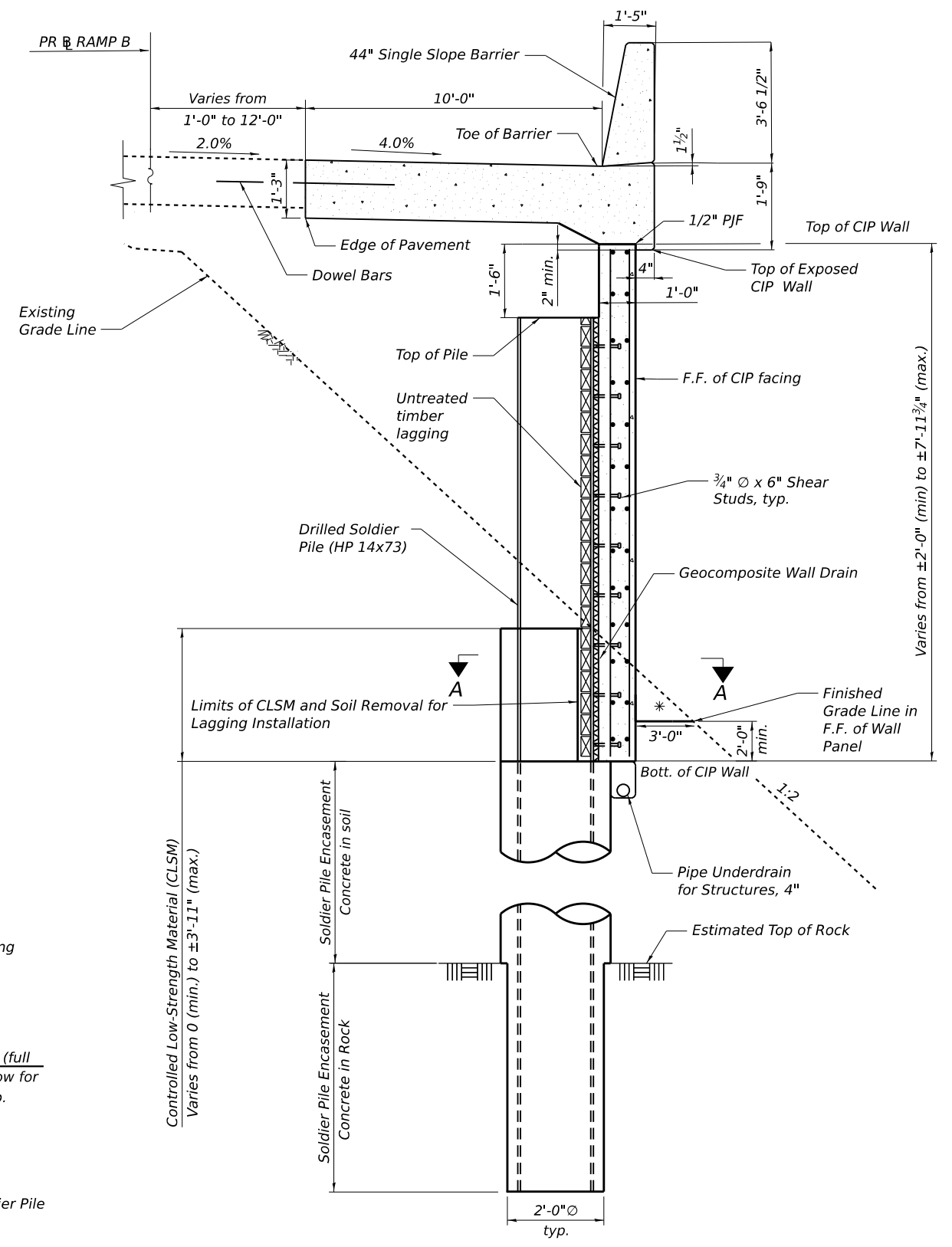
3/4" ϕ x 6" Shear Studs, typ.
 Granular or solid flux filled headed stud conforming to Article 1006.32 of the Standard Specifications.
 Automatically end welded.



PIPE UNDERDRAIN DETAIL BETWEEN SOLDIER PILES



PIPE UNDERDRAIN DETAIL AT SOLDIER PILE



TYPICAL CROSS SECTION
 (Looking North)

* See Elevations on sheet SA-12 of SA-32 for the limits of the dimension
 ** Included in the cost of Pipe Underdrain for Structures
 *** Maximum thickness for Geocomposite Wall Drain is 1/2"



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CHECKED - CRS	REVISIONS -	
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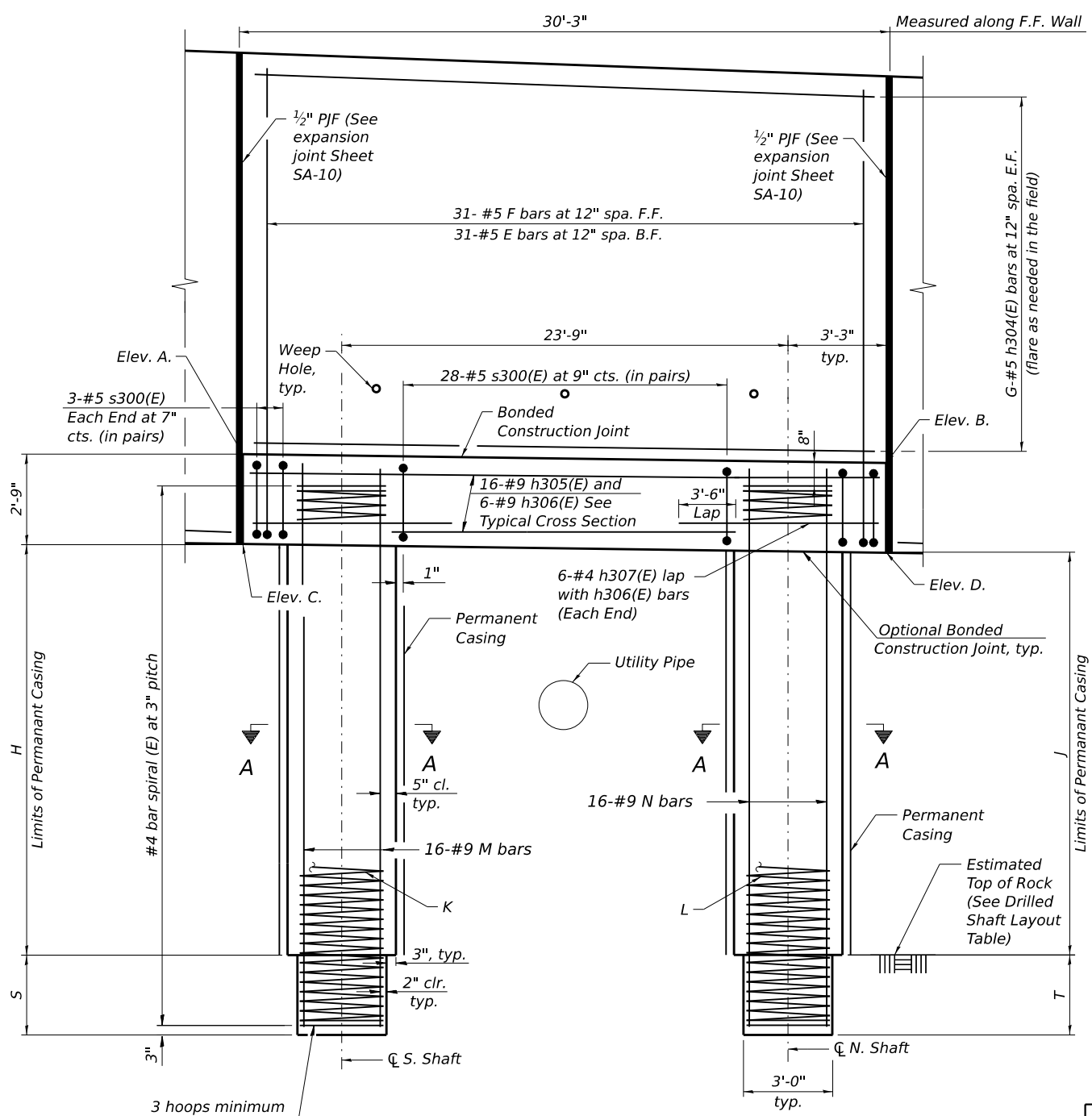
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WALL CROSS SECTION AND DETAIL
STRUCTURE NO. 099-W1001

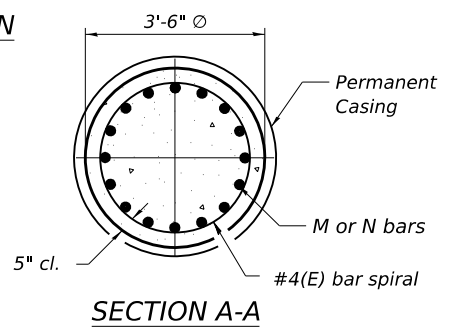
SHEET SA-10 OF SA-32 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	FAI 80 21 STRUCTURE 5	WILL	525	394
CONTRACT NO. 62R26				
ILLINOIS FED. AID PROJECT				

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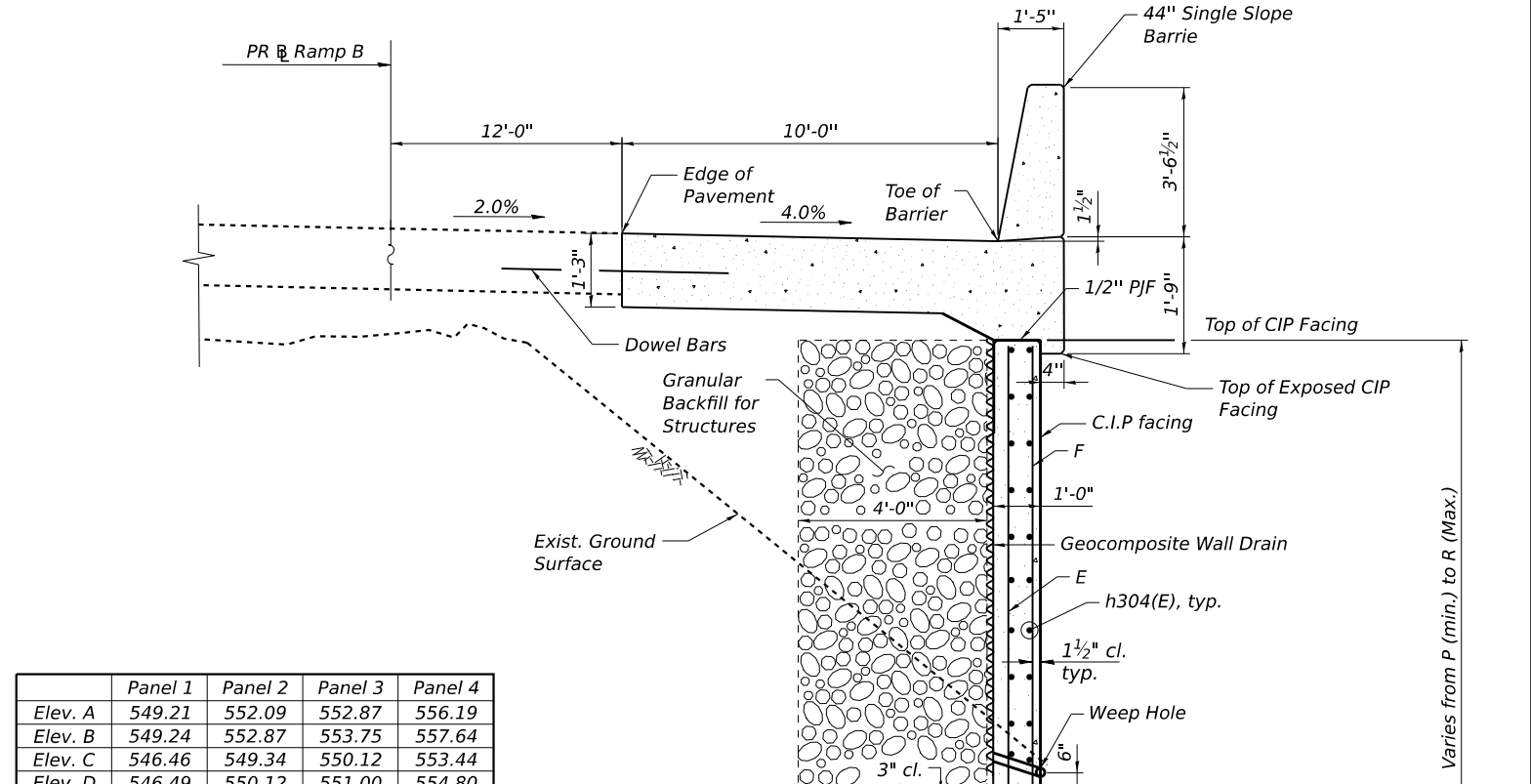
TYPICAL PANEL ELEVATION
(Looking West)



SECTION A-A

NOTES:

- Structure Excavation is measured 2'-0" from front face of wall to back face of wall.
- The geocomposite wall drain shall be placed behind the lagging with the pervious side toward the soil according to Section 591 of the Standard Specifications and shall be centered between the piles. The drain shall be installed in stages as the excavation proceeds downward making sure that drain splices as well as the top side edges are covered as required to protect the drain. Thickness shall not be greater than 1/8".
- Permanent Casing shall be installed for two Drilled Shafts and shall extend to the top of bedrock. The Contractor shall be responsible for determining the permanent casing thickness and actual tip elevation to be used.

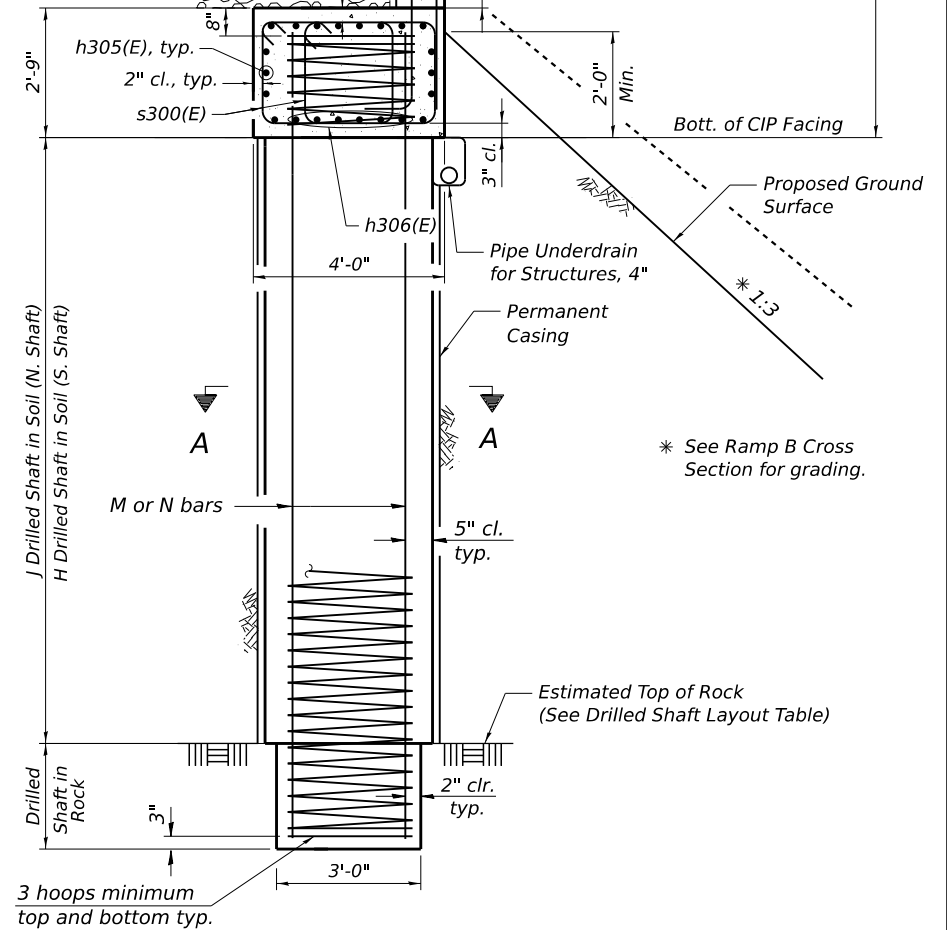


TYPICAL CROSS SECTION
(Looking North)

	Panel 1	Panel 2	Panel 3	Panel 4
Elev. A	549.21	552.09	552.87	556.19
Elev. B	549.24	552.87	553.75	557.64
Elev. C	546.46	549.34	550.12	553.44
Elev. D	546.49	550.12	551.00	554.80
E	v310(E)	v313(E)	v316(E)	v317(E)
F	v318(E)	v319(E)	v320(E)	v321(E)
G	6	4	3	2
H	14'-5 1/2"	15'-2 1/2"	15'-2 7/8"	15'-6 1/4"
J	14'-4 1/2"	15'-4 7/8"	15'-6 1/2"	15'-1 3/8"
K	sp300(E)	sp301(E)	sp303(E)	sp305(E)
L	sp300(E)	sp302(E)	sp304(E)	sp306(E)
M	v322(E)	v323(E)	v325(E)	v327(E)
N	v322(E)	v324(E)	v326(E)	v328(E)
P	7'-9 1/4"	5'-6 1/8"	5'-0 7/8"	3'-3 1/2"
R	7'-10 1/8"	5'-11 1/8"	5'-6 1/8"	3'-11 7/8"
S	4'-0"	6'-1 1/2"	6'-10 1/2"	9'-11"
T	4'-1 3/8"	6'-8 1/2"	7'-5 1/2"	11'-8 1/4"

DRILLED SHAFT LAYOUT

		Station	Offset	Estimated Top of Rock Elev.	Min. Shaft tip Elev.
Panel 1	S. Shaft	995+95.06	21.08' Rt.	532.00	528.00
	N. Shaft	996+18.81	21.08' Rt.	532.11	528.00
Panel 2	S. Shaft	997+75.31	21.08' Rt.	534.13	528.00
	N. Shaft	997+99.06	21.08' Rt.	534.71	528.00
Panel 3	S. Shaft	998+05.56	21.08' Rt.	534.88	528.00
	N. Shaft	998+29.31	21.08' Rt.	535.46	528.00
Panel 4	S. Shaft	999+13.00	21.08' Rt.	537.92	528.00
	N. Shaft	999+36.75	21.08' Rt.	539.69	528.00



USER NAME = eoskoul	DESIGNED - EAO	REVISED -
PLOT SCALE = 1/8" = 1'-0"	CHECKED - DTS	REVISED -
PLOT DATE = 8/16/2024	DRAWN - EAO	REVISED -
	CHECKED - DTS	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRILLED SHAFT SECTION AND DETAIL
STRUCTURE NO. 099-W1001

SHEET SA-11 OF SA-32 SHEETS

F.A.I. R.T.E. = 55	SECTION = FAI 80 21 STRUCTURE 5	COUNTY = WILL	TOTAL SHEETS = 525	SHEET NO. = 394A
CONTRACT NO. 62R26				
ILLINOIS FED. AID PROJECT				

PILE LAYOUT

Table with 10 columns: Pile, Station, Offset, Top of Pile Elev., Top of Encasement, Section, Estimated Top of Rock Elev., Minimum Pile Tip Elev., Pile Length, No. Shear Studs. Rows 1-65.

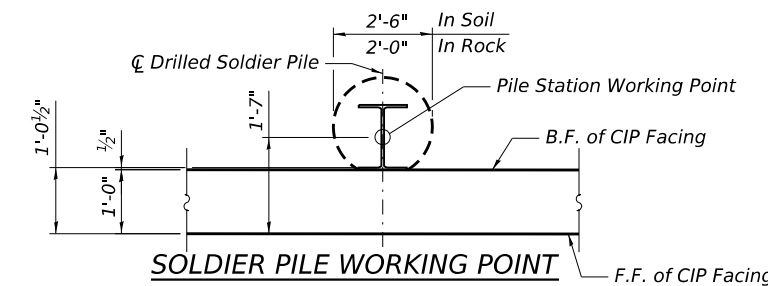
PILE LAYOUT

Table with 10 columns: Pile, Station, Offset, Top of Pile Elev., Top of Encasement, Section, Estimated Top of Rock Elev., Minimum Pile Tip Elev., Pile Length, No. Shear Studs. Rows 66-130.

PILE LAYOUT

Table with 10 columns: Pile, Station, Offset, Top of Pile Elev., Top of Encasement, Section, Estimated Top of Rock Elev., Minimum Pile Tip Elev., Pile Length, No. Shear Studs. Rows 131-191.

NOTE: Pile Stations and Offsets are measured to the center of pile and along R Ramp B.



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Table with 4 columns: USER NAME, DESIGNED, CHECKED, PLOT SCALE, PLOT DATE, and corresponding values.

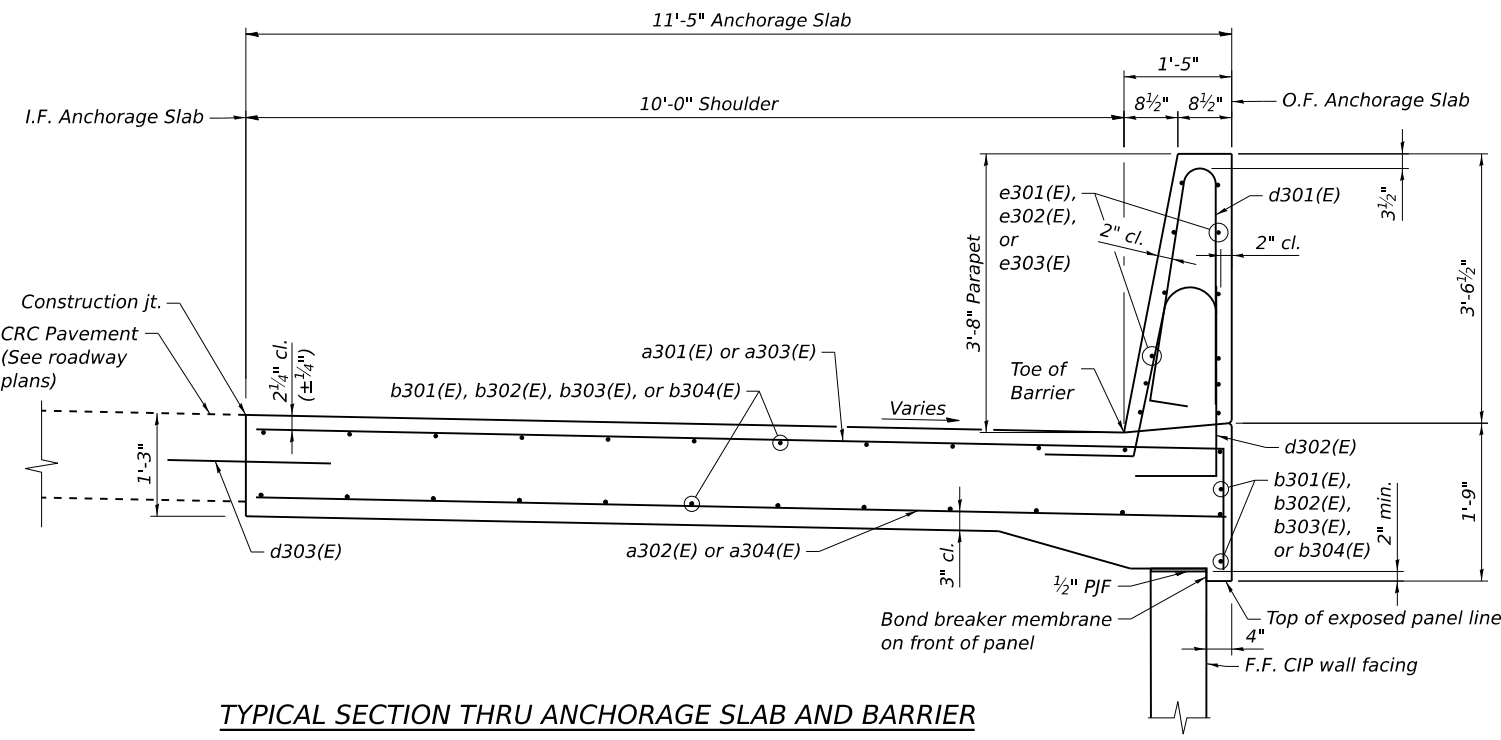
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

PILE LAYOUT STRUCTURE NO. 099-W1001

SHEET SA-12 OF SA-32 SHEETS

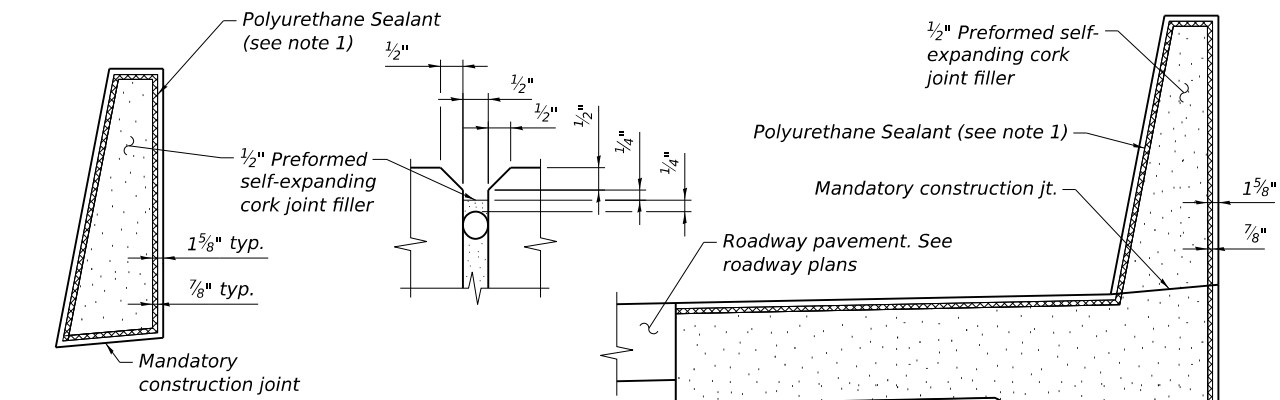
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TYPICAL SECTION THRU ANCHORAGE SLAB AND BARRIER

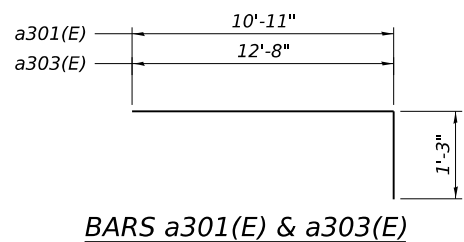
(Looking Upstation)



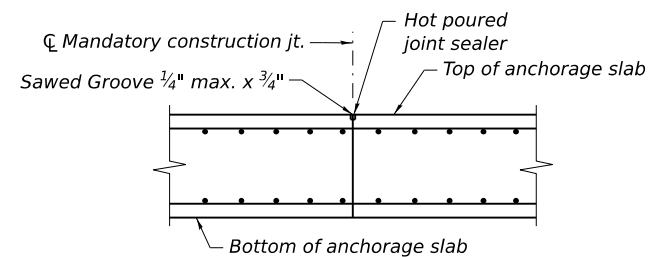
BARRIER JOINT DETAIL

(at Anchorage Slab Const. Joint Locations)

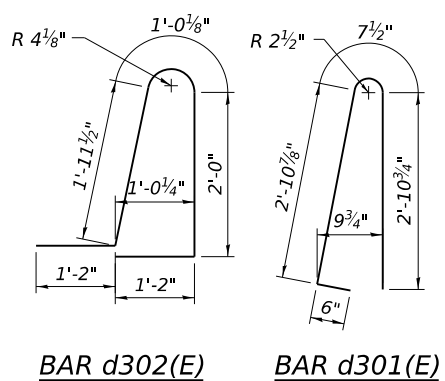
EXPANSION JOINT DETAIL



BARS a301(E) & a303(E)



TYPICAL SECTION THRU ANCHORAGE SLAB AT CONSTRUCTION JOINT

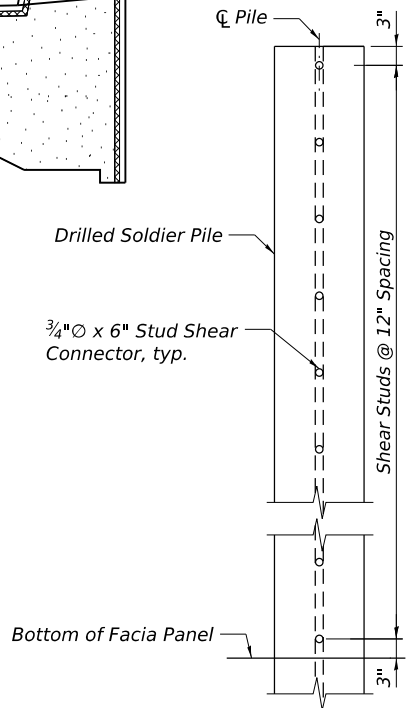


BAR d302(E)

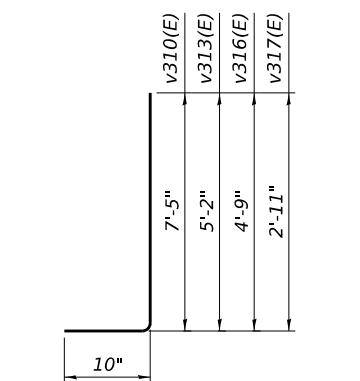
BAR d301(E)

MINIMUM BAR LAP

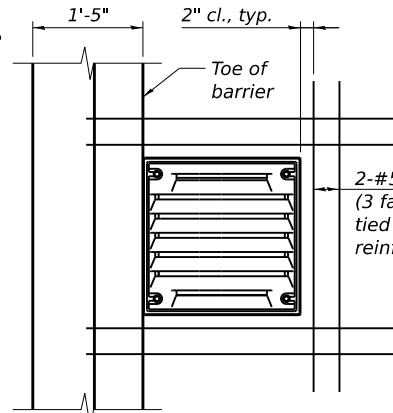
#5 BAR = 3'-7"



SHEAR STUD DETAIL



BARS V310(E), V313(E), V316(E), or V317(E)



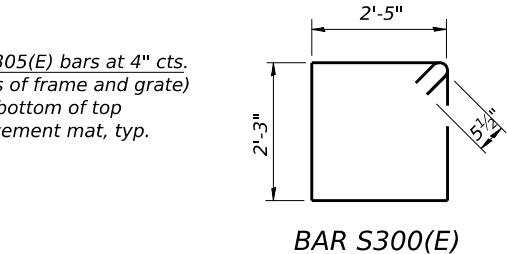
REINFORCEMENT DETAIL AT CATCH BASIN

Cut reinforcement to clear frame and grate

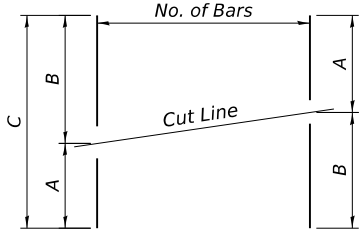
ANCHORAGE SLAB BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a301(E)	2710	#6	12'-4"	
a302(E)	1822	#6	11'-1"	
a303(E)	1	#6	13'-11"	
a304(E)	1	#6	12'-8"	
a305(E)	54	#5	4'-2"	
b301(E)	26	#5	44'-3"	
b302(E)	104	#5	35'-5"	
b303(E)	1404	#5	29'-4"	
b304(E)	130	#5	35'-4"	
d301(E)	2703	#5	7'-0"	
d302(E)	2703	#5	7'-4"	
d303(E)	902	#6	4'-0"	
e301(E)	12	#4	21'-9"	
e302(E)	108	#4	16'-6"	
e303(E)	1200	#4	15'-11"	
Concrete Superstructure		Cu. Yd.	1274.4	
Reinforcement Bars, Epoxy Coated		Pound	193,680	

Bars indicated thus 19 x 2 -#5 etc. indicates 19 line of bars with 2 lengths per line.



BAR S300(E)



FIELD CUTTING DIAGRAM

See table for dimensions. Make all cuts normal to bar axis. Cut as shown and use remainder of bars on opposite face of wall.

* Length is the height is spiral

BAR TABLE SCHEDULE

Bar	No. of Sets Req'd	Bar No.	No. of Bars per Set	A	B	C
v300(E)	1	#5	31	3'-5"	4'-3"	7'-8"
v301(E)	1	#5	31	4'-3"	5'-1"	9'-4"
v302(E)	1	#5	31	5'-1"	5'-10"	10'-11"
v303(E)	2	#5	31	5'-10"	6'-5"	12'-3"
v304(E)	2	#5	31	6'-5"	6'-11"	13'-4"
v312(E)	1	#5	47	4'-4"	3'-8"	8'-0"
v314(E)	1	#5	31	3'-0"	2'-4"	5'-4"
v315(E)	1	#5	31	2'-4"	1'-9"	4'-1"

Bars indicated thus 7 x 3 -#5 etc. indicates 7 lines of bars with 3 lengths per line.

Notes:

- The polyurethane sealant shall be in accordance with Article 1050.04 of the Standard Specifications and the color shall be grey.
- The construction joints in the anchorage slab shall line up with barrier joints details.

WALL BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h301(E)	564	#5	32'-3"	
h302(E)	132	#5	31'-7"	
h303(E)	32	#5	25'-8"	
h304(E)	30	#5	27'-7"	
h305(E)	30	#5	29'-11"	
h306(E)	64	#9	29'-11"	
h307(E)	24	#9	19'-11"	
h308(E)	48	#4	8'-6"	
h309(E)	16	#5	2'-6"	
v300(E)	31	#5	7'-8"	
v301(E)	31	#5	9'-4"	
v302(E)	31	#5	10'-11"	
v303(E)	62	#5	12'-3"	
v304(E)	31	#5	13'-4"	
v305(E)	124	#5	7'-0"	
v306(E)	374	#5	7'-3"	
v307(E)	1838	#5	7'-6"	
v308(E)	62	#5	6'-7"	
v309(E)	62	#5	5'-9"	
v310(E)	124	#5	8'-3"	
v311(E)	62	#5	4'-7"	
v312(E)	47	#5	8'-0"	
v313(E)	124	#6	6'-0"	
v314(E)	31	#5	5'-4"	
v315(E)	31	#5	4'-1"	
v316(E)	124	#5	5'-7"	
v317(E)	124	#5	3'-9"	
v318(E)	124	#5	7'-5"	
v319(E)	124	#5	5'-2"	
v320(E)	124	#5	4'-9"	
v321(E)	124	#5	2'-11"	
v322(E)	32	#9	20'-3"	
v323(E)	16	#9	23'-3"	
v324(E)	16	#9	23'-10"	
v325(E)	16	#9	24'-0"	
v326(E)	16	#9	24'-9"	
v327(E)	16	#9	27'-5"	
v328(E)	16	#9	28'-6"	
s300(E)	272	#5	10'-3"	
* sp300(E)	2	#4	20'-3"	
* sp301(E)	1	#4	23'-3"	
* sp302(E)	1	#4	23'-10"	
* sp303(E)	1	#4	24'-0"	
* sp304(E)	1	#4	24'-9"	
* sp305(E)	1	#4	27'-5"	
* sp306(E)	1	#4	28'-6"	

Structure Excavation	Cu. Yd.	462.6
Concrete Structures	Cu. Yd.	460.1
Protective Coat	Sq. Yd.	2,204
Stud Shear Connectors	Each	1,221
Reinforcement Bars, Epoxy Coated	Pound	84,530
Furnishing Soldier Piles (HP 14x73)	Foot	4983
Drilling and Setting Soldier Piles (In Soil)	Cu. Ft.	17,247
Drilling and Setting Soldier Piles (In Rock)	Cu. Ft.	1,248
Untreated Timber Lagging	Sq. Ft.	8,491
Geocomposite Wall Drain	Sq. Yd.	962
Pipe Underdrain for Structures 4"	Foot	1,626
Concrete Headwalls for Pipe Drains	Each	9



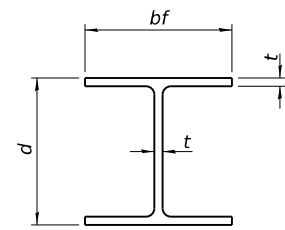
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PLOT SCALE = 15.0000' / in.	CHECKED - DTS	REVISED -
PLOT DATE = 8/12/2024	DRAWN - LRG	REVISED -
	CHECKED - DTS	REVISED -

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

MOMENT SLAB DETAILS AND BILL OF MATERIAL
 STRUCTURE NO. 099-W1001
 SHEET SA-13 OF SA-32 SHEETS

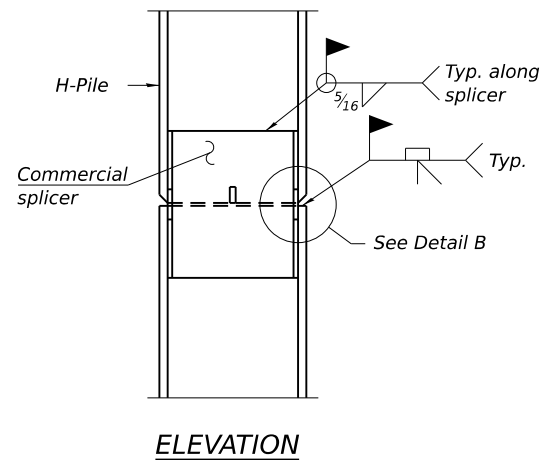
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	FAI 80 21 STRUCTURE 5	WILL	525	394C
CONTRACT NO. 62R26				
		ILLINOIS	FED. AID PROJECT	

MODEL: Default
FILE NAME: pw://transystems-pw.bentley.com/transystems-pw1-hosted/Documents/Projects_2018/CH401/401180022/01-Stantec/CAD/INT-02_62R26/04-Structures/099W1001-Ramp_AA_Retaining_Wall/IFinal/099W1002-62R26-030-HP Pile Details.dgn

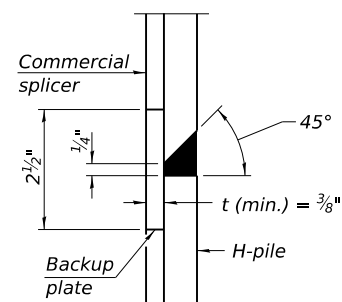


STEEL PILE TABLE

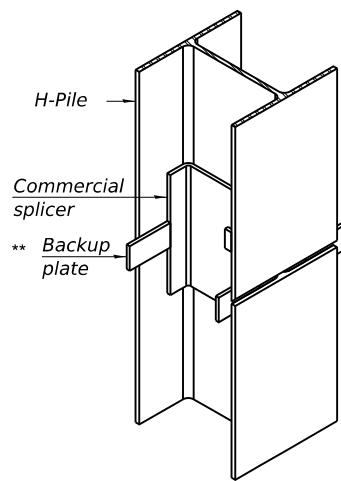
Designation	Depth d	Flange width bf	Web and Flange thickness t	Encasement diameter A
HP 14x117	14 1/4"	14 7/8"	1 3/16"	30"
x102	14"	14 3/4"	1 1/16"	30"
x89	13 7/8"	14 3/4"	5/8"	30"
x73	13 5/8"	14 5/8"	1/2"	30"
HP 12x84	12 1/4"	12 3/4"	1 1/16"	24"
x74	12 1/8"	12 3/4"	5/8"	24"
x63	12"	12 3/8"	1/2"	24"
x53	11 3/4"	12"	7/16"	24"
HP 10x57	10"	10 1/4"	9/16"	24"
x42	9 3/4"	10 1/8"	7/16"	24"
HP 8x36	8"	8 1/8"	7/16"	18"



ELEVATION

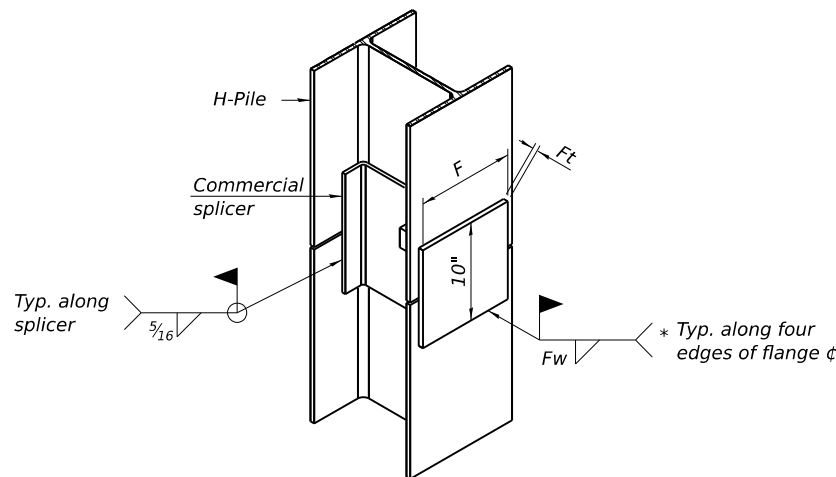


DETAIL B



ISOMETRIC VIEW

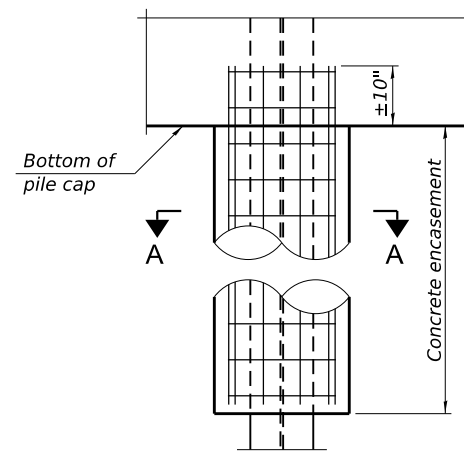
WELDED COMMERCIAL SPLICE



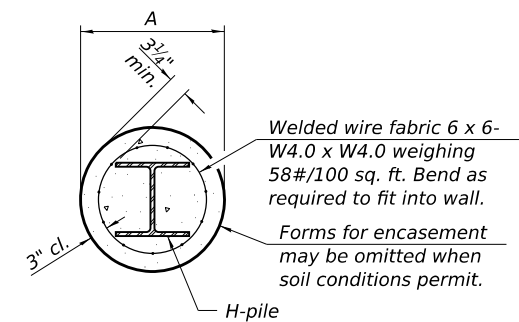
ISOMETRIC VIEW

WELDED COMMERCIAL SPLICE ALTERNATE

- * Interrupt welds 1/4" from end of web and/or each flange.
- ** Remove portions of backup plates that extend outside the flanges.
- *** Weld size per pile shoe manufacturer (5/16" min.).

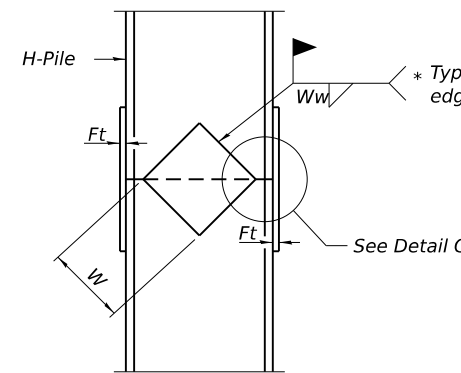


ELEVATION

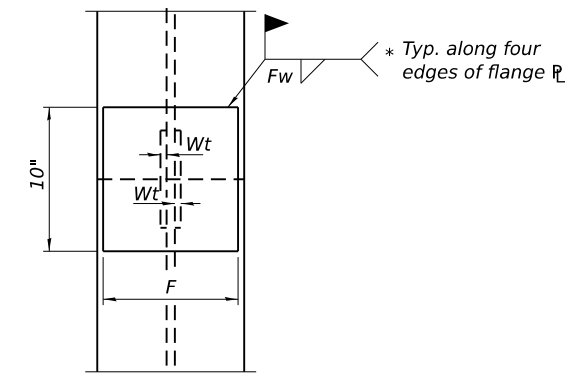


SECTION A-A

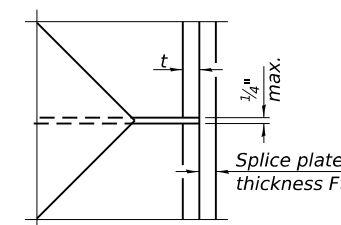
INDIVIDUAL PILE CONCRETE ENCASEMENT
(when specified)



ELEVATION



END VIEW



DETAIL C

WELDED PLATE FIELD SPLICE

Designation	F	Ft	Fw	W	Wt	Ww
HP 14x117	12 1/2"	1 1/4"	7/8"	7 3/4"	5/8"	1/2"
x102	12 1/2"	1"	3/4"	7 3/4"	5/8"	1/2"
x89	12 1/2"	7/8"	1 1/16"	7 3/4"	5/8"	1/2"
x73	12 1/2"	3/4"	9/16"	7 3/4"	5/8"	1/2"
HP 12x84	10"	1"	1 1/16"	6 1/2"	5/8"	1/2"
x74	10"	7/8"	1 1/16"	6 1/2"	5/8"	1/2"
x63	10"	3/4"	1/2"	6 1/2"	1/2"	3/8"
x53	10"	3/4"	1/2"	6 1/2"	1/2"	3/8"
HP 10x57	8"	7/8"	9/16"	5 1/4"	1/2"	3/8"
x42	8"	3/4"	9/16"	5 1/4"	1/2"	3/8"
HP 8x36	6 3/4"	5/8"	7/16"	4"	1/2"	3/8"

Note:
The steel H-piles shall be according to AASHTO M270 Grade 50.

F-HP 10-27-2023



USER NAME = eoskou	DESIGNED - SHK	REVISD -
PLOT SCALE = 0.2" = 1' / in.	CHECKED - JZ	REVISD -
PLOT DATE = 8/12/2024	DRAWN - SHK	REVISD -
	CHECKED - JZ	REVISD -

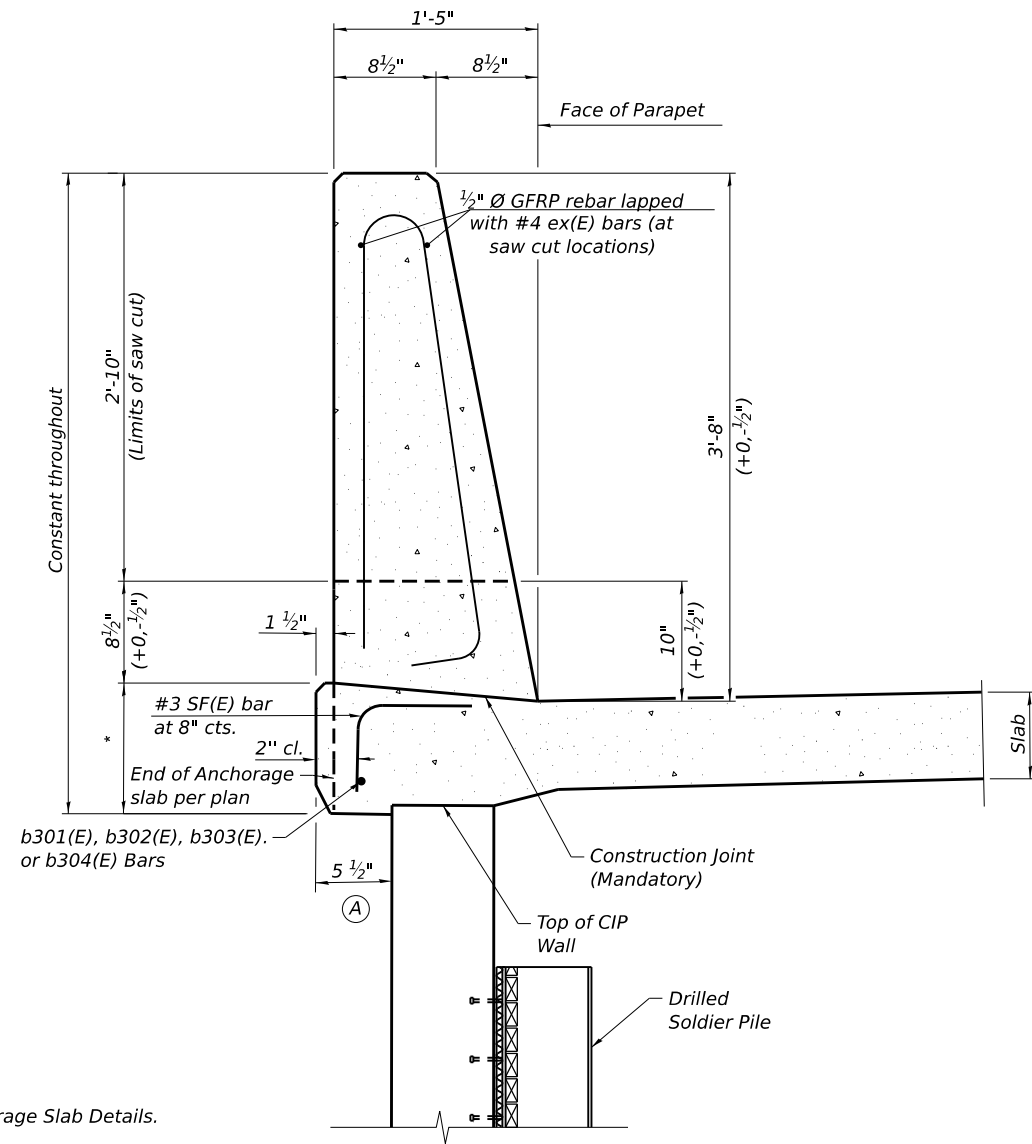
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

**HP PILE BASE SHEET
STRUCTURE NO. 099-W1003**

SHEET SA-14 OF SA-32 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	FAI 80 21 STRUCTURE 5	WILL	525	395
CONTRACT NO. 62R26				
ILLINOIS		FED. AID PROJECT		

MODEL: Default
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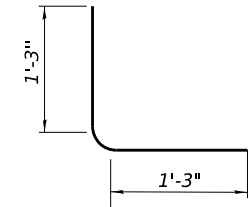


*See Anchorage Slab Details.

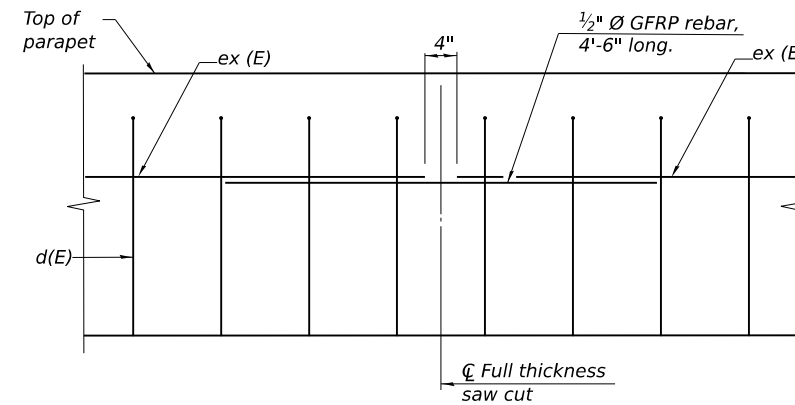
**44" CONSTANT-SLOPE
 PARAPET SECTION**

(Showing dimensions, d(E), and 1/2" Ø GFRP rebar)

Notes:
 All dimensions shall remain the same as shown on superstructure details, except dimension (A) which is to be revised as shown to provide additional clearance. Additional concrete needed to revise dimension (A) equals 0.008 cu. yds./ft.
 Full thickness saw cut at all joint locations in lieu of cork joint filler.



SF(E) Bar



GFRP REBAR STIFFENING ELEVATION

(Place as shown in parapet section at each parapet joint location.)



USER NAME = eoskou	DESIGNED - DK	REVISED -
PLOT SCALE = 0:2" = 1'-0"	CHECKED - SHK	REVISED -
PLOT DATE = 8/12/2024	DRAWN - DK	REVISED -
	CHECKED - SHK	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**CONCRETE PARAPET SLIPFORMING OPTION
 STRUCTURE NO. 099-W1001**

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	FAI 80 21 STRUCTURE 5	WILL	525	395A
CONTRACT NO. 62R26				
		ILLINOIS	FED. AID PROJECT	

SHEET SA-15 OF SA-32 SHEETS

Wang Engineering
 wangeng@wangeng.com
 1145 North Main Street
 60148
 Telephone: (630) 953-9928
 Fax: (630) 953-9938

BORING LOG I55-RWB-01
 WEI Job No.: 255-39-01
 Client: **Stantec**
 Project: **I-80 Reconstruction, Ridge Road to Houbolt Road**
 Location: **Will County, Illinois**

Datum: NAVD 88
 Elevation: 578.21 ft
 North: 1751463.00 ft
 East: 1021655.00 ft
 Station: 983+36.73
 Offset: 7.25 RT

Page 1 of 2

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
577.2	12-inch thick CONCRETE --PAVEMENT--						577.2	Medium dense to dense, brown LOAM to SANDY LOAM, little to some gravel; damp					
	Dense, brown SANDY GRAVEL; damp		1	10 16 16	NP	6		--FILL-- --RDR 2--		9	7 9 21	NP	10
575.2	Loose to dense, brown and gray SANDY LOAM, trace to some gravel; damp		2	5 13 17	NP	11		--FILL-- --RDR 2--	25	10	8 12 13	NP	16
			3	4 5 3	NP	10		--FILL--		11	12 13 17	NP	9
570.2	Loose, brown Gravelly SAND; damp		4	4 4 3	NP	7		--FILL-- --RDR 2--		12	10 10 20	2.50 P	10
567.7	Medium dense, brown Gravelly LOAM to SANDY LOAM; damp		5	7 12 12	NP	9		--FILL-- --RDR 2--					
	--L _t (%)=23, P _t (%)=16-- --%Gravel=23.3-- --%Sand=33.6-- --%Silt=34.2-- --%Clay=8.9-- --A-4 (0)--		6	3 6 7	NP	11		--RDR 2--		13	5 6 7	1.80 S	17
560.2	Medium dense, brown SANDY GRAVEL; damp		7	10 8 9	NP	9		--FILL-- --RDR 2--		14	5 10 13	NR	
			8	10 10 9	NP	6	539.0		40				
								Very dense, gray SANDY					

GENERAL NOTES				WATER LEVEL DATA			
Begin Drilling	01-07-2024	Complete Drilling	01-07-2024	While Drilling	▽	43.50 ft	
Drilling Contractor	Wang Testing Services	Drill Rig	20D50T [80%]	At Completion of Drilling	▼	38.00 ft	
Driller	RH&NC	Logger	I. Romero	Time After Drilling	NA		
Checked by	C. Marin	Depth to Water	▼	NA			
Drilling Method	3.25" ID HSA; boring backfilled upon completion			The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.			

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 wangeng@wangeng.com
 1145 North Main Street
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 Fax: (630) 953-9938

BORING LOG I55-RWB-01
 WEI Job No.: 255-39-01
 Client: **Stantec**
 Project: **I-80 Reconstruction, Ridge Road to Houbolt Road**
 Location: **Will County, Illinois**

Datum: NAVD 88
 Elevation: 578.21 ft
 North: 1751463.00 ft
 East: 1021655.00 ft
 Station: 983+36.73
 Offset: 7.25 RT

Page 2 of 2

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	GRAVEL; wet							--RDR 2-4--					
534.2	Strong, light gray, fair quality, DOLOSTONE; closely spaced, highly weathered, horizontal, oblique, and vertical joints, with 0-0.2 inch opening, slightly rough walls, and >0.2 inch thick clay infill.		15	50/1" CORE	NP	9		--RUN 1: 44.0 to 54.0 feet-- --Recovery: 92%-- --RQD: 58%-- --Q _u =6,155 psi--					
524.2	Boring terminated at 54.00 ft								55				

GENERAL NOTES				WATER LEVEL DATA			
Begin Drilling	01-07-2024	Complete Drilling	01-07-2024	While Drilling	▽	43.50 ft	
Drilling Contractor	Wang Testing Services	Drill Rig	20D50T [80%]	At Completion of Drilling	▼	38.00 ft	
Driller	RH&NC	Logger	I. Romero	Time After Drilling	NA		
Checked by	C. Marin	Depth to Water	▼	NA			
Drilling Method	3.25" ID HSA; boring backfilled upon completion			The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.			

MODEL: Default
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 WANGENG\INC_2553901.GPJ WANGENG.GDT 2/23/24



USER NAME = eoskou	DESIGNED - LRG	REVISED -
PLOT SCALE = 0.2" = 1' / in.	CHECKED - CRS	REVISED -
PLOT DATE = 8/12/2024	DRAWN - LRG	REVISED -
	CHECKED - CRS	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SOIL BORINGS (1 OF 17)
 STRUCTURE NO. 099-W001

SHEET SA-16 OF SA-32 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	FAI 80 21 STRUCTURE 5	WILL	525	396
CONTRACT NO. 62R26				
ILLINOIS		FED. AID PROJECT		

Wang Engineering
 wangeng@wangeng.com
 1145 North Main Street
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 Telephone: (630) 953-9928
 Fax: (630) 953-9938

BORING LOG I55-RWB-02
 WEI Job No.: 255-39-01
 Client: **Stantec**
 Project: **I-80 Reconstruction, Ridge Road to Houbolt Road**
 Location: **Will County, Illinois**

Datum: NAVD 88
 Elevation: 577.76 ft
 North: 1751522.24 ft
 East: 1021653.29 ft
 Station: 983+95.99
 Offset: 7.34 RT

Page 1 of 2

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
576.8	12-inch thick CONCRETE --PAVEMENT--							557.3	Hard, gray SILTY CLAY LOAM, trace gravel; moist						
	Medium dense to dense, light brown and gray SANDY GRAVEL; damp			1	10 7 6	NP	8		--FILL-- --RDR-2--			9	12 9 8	4.10 B	17
				2	5 16 19	NP	6	554.8	Hard, light brown to brown, gravelly CLAY LOAM; moist			10	11 10 8	4.00 P	11
572.3	Loose to medium dense, light brown to brown, gravelly LOAM to SANDY LOAM; moist			3	5 4 5	NP	13	552.3	Very stiff, brown and gray SILTY CLAY LOAM to SILTY LOAM, trace gravel; moist			11	7 7 7	3.28 B	22
				4	10 12 10	NP	12	549.0	Medium dense, light brown and gray SANDY GRAVEL; damp			12	13 14 7	NP	8
567.3	Dense, light brown and gray SANDY GRAVEL; damp to moist			5	11 18 20	NP	7	546.0	Hard, brown and gray SILTY CLAY LOAM, trace gravel; moist			13	9 10 8	4.84 B	19
564.8	Medium dense, light brown, gravelly SILTY LOAM; moist			6	6 13 11	NP	16		--FILL-- --RDR-2--			14	6 8 23	1.50 P	35
562.3	Medium dense, light brown and gray SANDY GRAVEL; damp			7	9 14 9	NP	3	541.0	Stiff, black SILTY CLAY LOAM; moist			14			
559.8	Medium dense, light brown to brown LOAM; moist			8	6 11 10	NP	10	538.5	Very dense, light gray GRAVEL;			14			

GENERAL NOTES				WATER LEVEL DATA			
Begin Drilling	02-07-2024	Complete Drilling	02-08-2024	While Drilling	▽	38.50 ft	
Drilling Contractor	Wang Testing Services	Drill Rig	20D50T [80%]	At Completion of Drilling	▽	38.50 ft	
Driller	RH&JD	Logger	L. Corral	Time After Drilling	NA		
Checked by	C. Marin	Drilling Method	3.25" ID HSA; boring backfilled upon completion	Depth to Water	▽	NA	
The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.							

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BORING LOG I55-RWB-02
 WEI Job No.: 255-39-01
 Client: **Stantec**
 Project: **I-80 Reconstruction, Ridge Road to Houbolt Road**
 Location: **Will County, Illinois**

Datum: NAVD 88
 Elevation: 577.76 ft
 North: 1751522.24 ft
 East: 1021653.29 ft
 Station: 983+95.99
 Offset: 7.34 RT

Page 2 of 2

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	wet								--RDR-2-3-- --wet spoon-- --Weathered BEDROCK--						
				15	16 12	NP	15	532.8	--sampler refusal-- --possible cobbles and boulders-- Boring terminated at 45.00 ft			15	50 2		

GENERAL NOTES				WATER LEVEL DATA			
Begin Drilling	02-07-2024	Complete Drilling	02-08-2024	While Drilling	▽	38.50 ft	
Drilling Contractor	Wang Testing Services	Drill Rig	20D50T [80%]	At Completion of Drilling	▽	38.50 ft	
Driller	RH&JD	Logger	L. Corral	Time After Drilling	NA		
Checked by	C. Marin	Drilling Method	3.25" ID HSA; boring backfilled upon completion	Depth to Water	▽	NA	
The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.							

MODEL: Default
 FILE NAME: pw://transystems-pw.bentley.com/transystems-pw-hosted/Documents/Projects_2018/CH401/401180022/01-Stantec/CAD/INT-02_62R26/04-Structures/099W1001 Ramp_AA Retaining Wall/Final/099W1001-62R26-XX2-Soil Boring (2 of 17).dgn
 WANGENGINC_2553901.GPJ WANGENG.GDT 2/23/24



USER NAME = eoskou	DESIGNED - LRG	REVISED -
PLOT SCALE = 0.2" = 1' / in.	CHECKED - CRS	REVISED -
PLOT DATE = 8/12/2024	DRAWN - LRG	REVISED -
	CHECKED - CRS	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SOIL BORINGS (2 OF 17)
 STRUCTURE NO. 099-W001

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	FAI 80 21 STRUCTURE 5	WILL	525	397
CONTRACT NO. 62R26				
ILLINOIS		FED. AID PROJECT		

SHEET SA-17 OF SA-32 SHEETS

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BORING LOG I55-RWB-03
 WEI Job No.: 255-39-01
 Client: **Stantec**
 Project: **I-80 Reconstruction, Ridge Road to Houbolt Road**
 Location: **Will County, Illinois**

Datum: NAVD 88
 Elevation: 577.09 ft
 North: 1751616.46 ft
 East: 1021646.66 ft
 Station: 984+90.37
 Offset: 3.60 RT

Page 1 of 2

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
576.2	11-inch thick CONCRETE --PAVEMENT--						556.6	Dense, brown Gravelly LOAM to SILTY LOAM; damp		9	14 17 18	NP	10
	Medium dense, brown and white Gravelly SAND; dry --AGGREGATE BASE--		1	8 6 5	NP	4	554.1	Medium dense, brown SANDY GRAVEL; damp		10	6 16 12	NP	8
574.1	Medium dense to dense, brown Gravelly LOAM to SILTY LOAM; damp		2	6 11 10	NP	10	551.6	Very stiff, brown SILTY CLAY to CLAY LOAM, little gravel; damp		11	4 8 11	3.77 S	18
	--FILL-- --RDR 2--		3	6 9 9	NP	8	549.1	Medium dense, brown Gravelly LOAM to SILTY LOAM; damp		12	5 13 13	NP	10
			4	16 16 12	NP	9	545.3	Stiff, brown Gravelly SILTY CLAY LOAM; damp		13	19 11 50/5"	1.50 P	15
			5	16 13 8	NP	16	542.2	Very dense, brown Gravelly SAND; damp		14		NP	13
			6	15 26 19	NP	5							
			7	3 7 10	NP	8							
559.1	Medium dense, brown Gravelly SAND; damp		8	3 5 7	NP	7							
	--FILL--												
			20										

GENERAL NOTES				WATER LEVEL DATA			
Begin Drilling	01-10-2024	Complete Drilling	01-10-2024	While Drilling	groundwater not encountered		
Drilling Contractor	Wang Testing Services	Drill Rig	17B57T [91%]	At Completion of Drilling	groundwater not recorded		
Driller	NC&KG	Logger	I. Romero	Time After Drilling	NA		
Checked by	C. Marin	Drilling Method	3.25" ID HSA; boring backfilled upon completion	Depth to Water	NA		
				The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.			

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BORING LOG I55-RWB-03
 WEI Job No.: 255-39-01
 Client: **Stantec**
 Project: **I-80 Reconstruction, Ridge Road to Houbolt Road**
 Location: **Will County, Illinois**

Datum: NAVD 88
 Elevation: 577.09 ft
 North: 1751616.46 ft
 East: 1021646.66 ft
 Station: 984+90.37
 Offset: 3.60 RT

Page 2 of 2

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
535.3	Dense, gray Gravelly SILTY LOAM to LOAM; moist						531.6	Strong, light gray, very poor quality, DOLOSTONE; closely spaced, moderately weathered, horizontal, oblique, and vertical joints, with 0-0.2 inch opening, slightly rough walls, and no infill.		1			
	--Weathered BEDROCK-- --RDR 3--		15	20 21 22	NP	12				2			
			45										
			50										
			55										
521.6	Boring terminated at 55.50 ft												

GENERAL NOTES				WATER LEVEL DATA			
Begin Drilling	01-10-2024	Complete Drilling	01-10-2024	While Drilling	groundwater not encountered		
Drilling Contractor	Wang Testing Services	Drill Rig	17B57T [91%]	At Completion of Drilling	groundwater not recorded		
Driller	NC&KG	Logger	I. Romero	Time After Drilling	NA		
Checked by	C. Marin	Drilling Method	3.25" ID HSA; boring backfilled upon completion	Depth to Water	NA		
				The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.			

MODEL: Default
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USER NAME	= eoskou	DESIGNED	- LRG	REVISED	-
CHECKED	- CRS	REVISIONS	-		
PLOT SCALE	= 0.2" = 1' / in.	DRAWN	- LRG	REVISED	-
PLOT DATE	= 8/12/2024	CHECKED	- CRS	REVISED	-

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SOIL BORINGS (3 OF 17)
 STRUCTURE NO. 099-W001

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	FAI 80 21 STRUCTURE 5	WILL	525	398
CONTRACT NO. 62R26				
ILLINOIS		FED. AID PROJECT		

SHEET SA-18 OF SA-32 SHEETS

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BORING LOG I55-RWB-04
 WEI Job No.: 255-39-01
 Client: **Stantec**
 Project: **I-80 Reconstruction, Ridge Road to Houbolt Road**
 Location: **Will County, Illinois**

Datum: NAVD 88
 Elevation: 576.05 ft
 North: 1751698.65 ft
 East: 1021646.04 ft
 Station: 985+72.54
 Offset: 5.50 RT

Page 1 of 2

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	Sample No. recovery	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	Sample No. recovery	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
575.0	12-inch thick CONCRETE --PAVEMENT--							555.5	Stiff to hard, brown Gravelly LOAM to SILTY LOAM; damp						
	Medium dense, brown Gravelly SAND; damp		1		5	NP	4		--FILL-- --L ₁ (%)=23, P ₁ (%)=15-- --%Gravel=27.9-- --%Sand=28.6-- --%Silt=35.1-- --%Clay=8.4-- --A-4 (0)--	9		10	1.00	10	
573.0	Very stiff, brown Gravelly CLAY LOAM; damp		2		4		10			10		10	4.50	12	
570.5	Medium dense to dense, brown Gravelly LOAM to SANDY LOAM; damp		3		5	NP	8	550.5	Stiff to very stiff, brown CLAY LOAM to SILTY LOAM, some gravel; damp			2	1.07	23	
	--FILL-- --RDR 2-- --L ₁ (%)=18, P ₁ (%)=16-- --%Gravel=39.3-- --%Sand=29.7-- --%Silt=26.7-- --%Clay=4.3-- --A-2.4 (0)--		4		15	NP	7		--FILL-- --RDR 2--			7	2.62	17	
			5		50/2"	NR		544.3	Medium dense to dense, brown Gravelly LOAM to SILTY LOAM; damp			7	1.50	10	
			6		16	NP	6		--FILL-- --RDR 2--			8	1.50	10	
560.5	Stiff, brown Gravelly CLAY LOAM, some gravel; damp		7		6		10					8	1.50	10	
558.0	Medium dense, brown Gravelly LOAM to SANDY LOAM; damp		8		5	NP	8					9	1.00	17	
	--FILL--		11		11							21			

GENERAL NOTES				WATER LEVEL DATA			
Begin Drilling	01-10-2024	Complete Drilling	01-10-2024	While Drilling	▽	40.00 ft	
Drilling Contractor	Wang Testing Services	Drill Rig	17B57T [91%]	At Completion of Drilling	▽	42.00 ft	
Driller	NC&KG	Logger	I. Romero	Time After Drilling		NA	
Checked by	C. Marin	Drilling Method	3.25" ID HSA; boring backfilled upon completion	Depth to Water	▽	NA	
The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.							

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BORING LOG I55-RWB-04
 WEI Job No.: 255-39-01
 Client: **Stantec**
 Project: **I-80 Reconstruction, Ridge Road to Houbolt Road**
 Location: **Will County, Illinois**

Datum: NAVD 88
 Elevation: 576.05 ft
 North: 1751698.65 ft
 East: 1021646.04 ft
 Station: 985+72.54
 Offset: 5.50 RT

Page 2 of 2

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	Sample No. recovery	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	Sample No. recovery	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
534.3	Dense, gray LOAM to CLAY LOAM, little to some gravel; wet														
	--RDR 2-- --possible cobbles--		15		50/4"	NP	8								
531.0	--AUGER REFUSAL-- Boring terminated at 45.00 ft	45													
		50													
		55													
		60													

GENERAL NOTES				WATER LEVEL DATA			
Begin Drilling	01-10-2024	Complete Drilling	01-10-2024	While Drilling	▽	40.00 ft	
Drilling Contractor	Wang Testing Services	Drill Rig	17B57T [91%]	At Completion of Drilling	▽	42.00 ft	
Driller	NC&KG	Logger	I. Romero	Time After Drilling		NA	
Checked by	C. Marin	Drilling Method	3.25" ID HSA; boring backfilled upon completion	Depth to Water	▽	NA	
The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.							

MODEL: Default
 FILE NAME: pw://transystems-pw.bentley.com/transystems-pw.bentley.com/Projects/2018/CH401/401180022/01-Stantec/CAD/INT-02_62R26/04-Sheet/04-Structures/099W1001-Ramp_AA_Retaining_Wall/Final/099W1001-62R26-XX4-Soil-Boring_4_of_17.dgn
 WANGENG\GDT_2/23/24
 WANGENG\GDT_2/23/24



USER NAME = eoskou	DESIGNED - LRG	REVISED -
PLOT SCALE = 0.2" = 1' / in.	CHECKED - CRS	REVISED -
PLOT DATE = 8/12/2024	DRAWN - LRG	REVISED -
	CHECKED - CRS	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SOIL BORINGS (4 OF 17)
 STRUCTURE NO. 099-W001

SHEET SA-19 OF SA-32 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	FAI 80 21 STRUCTURE 5	WILL	525	399
CONTRACT NO. 62R26				
ILLINOIS		FED. AID PROJECT		

