

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
39	(141-1)WIM	OGLE	31	1
		ILLINOIS	CONTRACT NO. 64R62	

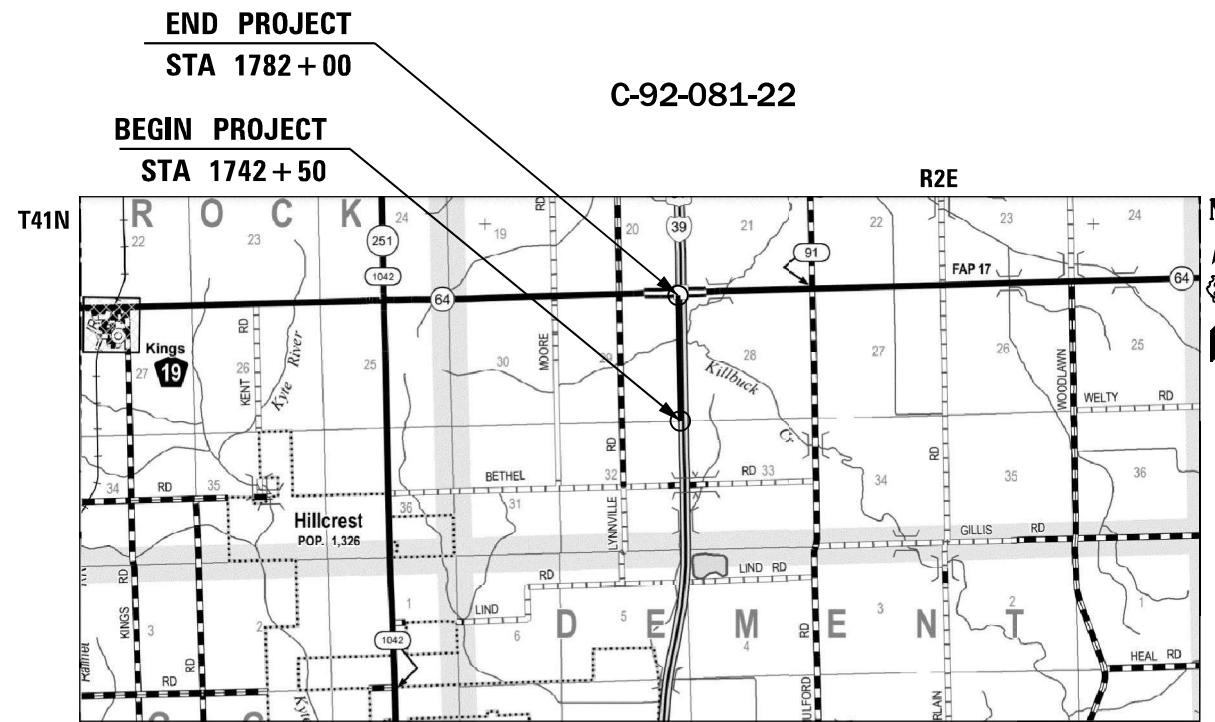
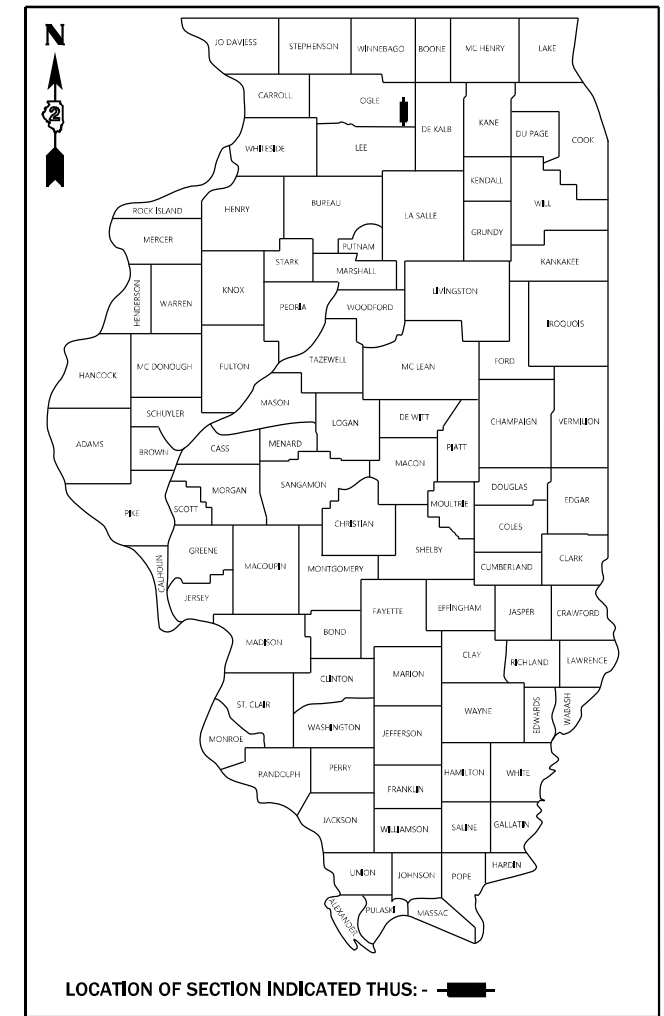
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- 3 TO 4 SUMMARY OF QUANTITIES
- 5 TYPICAL SECTIONS
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- 7 REINFORCEMENT DETAILS
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- 28 ELECTRIC SERVICE METER DETAIL
- 29 TO 31 TYPICAL PAVEMENT MARKINGS (DS 41.1)

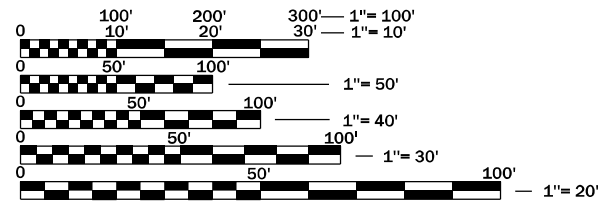
PROPOSED HIGHWAY PLANS

**FAI ROUTE 39 (I-39)
SECTION (141-1)WIM
PROJECT STP-183L(181)
VIRTUAL WEIGH STATION
OGLE COUNTY**

D-92-004-23



GROSS LENGTH = 3,950 FT. = 0.748 MILES
NET LENGTH = 300 FT. = 0.057 MILES



FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

J.U.L.I.E.
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION
1-800-892-0123
OR 811

PROJECT ENGINEER: MICHEAL J. KUEHN, P.E.
DISTRICT 2 NO. (815) 284-5351
CONTRACT NO. 64R62

TRANSMART, INC.
SCOTT R. CAIN, P.E.
*062-062355

DATE: 04/08/2022
SIGNATURE AND SEAL APPLY TO DRAWINGS: 2-7
EXPIRATION DATE: 11-30-2023

TRANSMART, INC.
DANIEL J. MEIER, P.E.
*062-056846

DATE: 04/08/2022
SIGNATURE AND SEAL APPLY TO DRAWINGS: 1, 8-28
EXPIRATION DATE: 11-30-2023

PREPARED BY:
TransSmart
100 S. Wacker Drive Suite 400
Chicago, Illinois 60606

FUNCTIONAL CLASSIFICATION
INTERSTATE
2021 ADT = 29,500
DESIGN SPEED = 70 MPH

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED 04/13 2022

[Signature]
REGIONAL ENGINEER

May 13, 2022 *[Signature]*
ENGINEER OF DESIGN AND ENVIRONMENT

May 13, 2022 *[Signature]*
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

**PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS**

CONST. CODE
90% FED 10% STATE

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	ROADWAY
				0044
				RURAL
31102200	SUBBASE GRANULAR MATERIAL, TYPE C 5"	SQ YD	533	533
42001300	PROTECTIVE COAT	SQ YD	533	533
44004250	PAVED SHOULDER REMOVAL	SQ YD	533	533
44200632	CLASS A PATCHES, TYPE IV, 15 INCH	SQ YD	800	800
44213000	PATCHING REINFORCEMENT	SQ YD	800	800
44213200	SAW CUTS	FOOT	948	948
44213204	TIE BARS 3/4"	EACH	328	328
48102100	AGGREGATE WEDGE SHOULDER, TYPE B	TON	70	70
48300500	PORTLAND CEMENT CONCRETE SHOULDERS 10"	SQ YD	533	533
64200116	SHOULDER RUMBLE STRIPS, 16 INCH	FOOT	600	600
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	3	3
67100100	MOBILIZATION	L SUM	1	1
70100420	TRAFFIC CONTROL AND PROTECTION, STANDARD 701411	EACH	1	1
70100800	TRAFFIC CONTROL AND PROTECTION, STANDARD 701401	L SUM	1	1

* = SPECIALTY ITEM

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	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**FAI ROUTE 39 (I-39)
SUMMARY OF QUANTITIES**

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
39	(141-1)WIM	OGLE	31	3
ILLINOIS FED. AID PROJECT			CONTRACT NO. 64R62	

CONST. CODE
90% FED
10% STATE

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	ROADWAY
				0044
				RURAL
70103815	TRAFFIC CONTROL SURVEILLANCE	CAL DAY	28	28
70106800	CHANGEABLE MESSAGE SIGN	CAL MO	2	2
70107025	CHANGEABLE MESSAGE SIGN	CAL DAY	7	7
* 78009004	MODIFIED URETHANE PAVEMENT MARKING - LINE 4"	FOOT	675	675
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	8	8
* 81028740	UNDERGROUND CONDUIT, COILABLE NONMETALLIC CONDUIT, 1 1/2" DIA.	FOOT	7961	7961
* 81400100	HANDHOLE	EACH	8	8
* 81702130	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 6	FOOT	3979	3979
* 81702150	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 2	FOOT	12135	12135
X0326767	PROFILE DIAMOND GRINDING CONCRETE PAVEMENT	SQ YD	800	800
X4810200	AGGREGATE SHOULDER REMOVAL	CU YD	34	34
* X8050115	SERVICE INSTALLATION, TYPE A (MODIFIED)	EACH	1	1
* Z0026290	FURNISHING AND INSTALLING WEIGH-IN- MOTION COMPONENTS	L SUM	1	1

* = SPECIALTY ITEM

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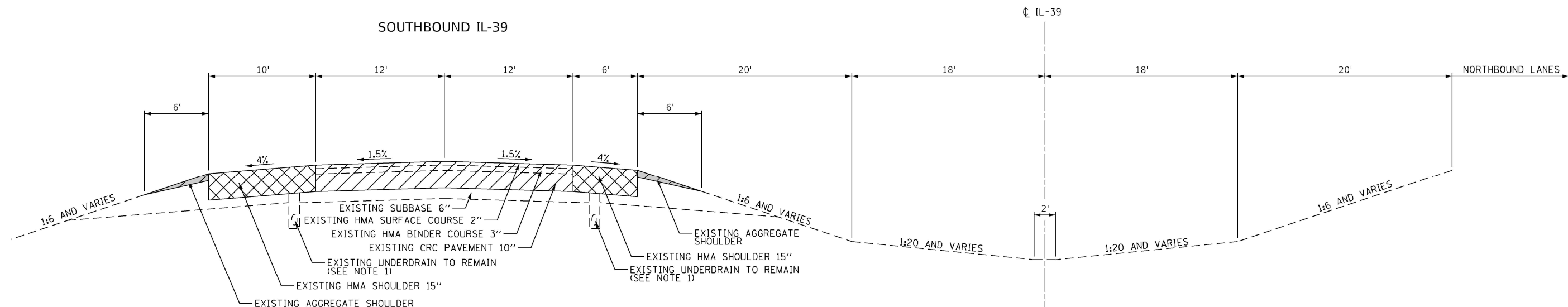
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FAI ROUTE 39 (I-39)
SUMMARY OF QUANTITIES

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

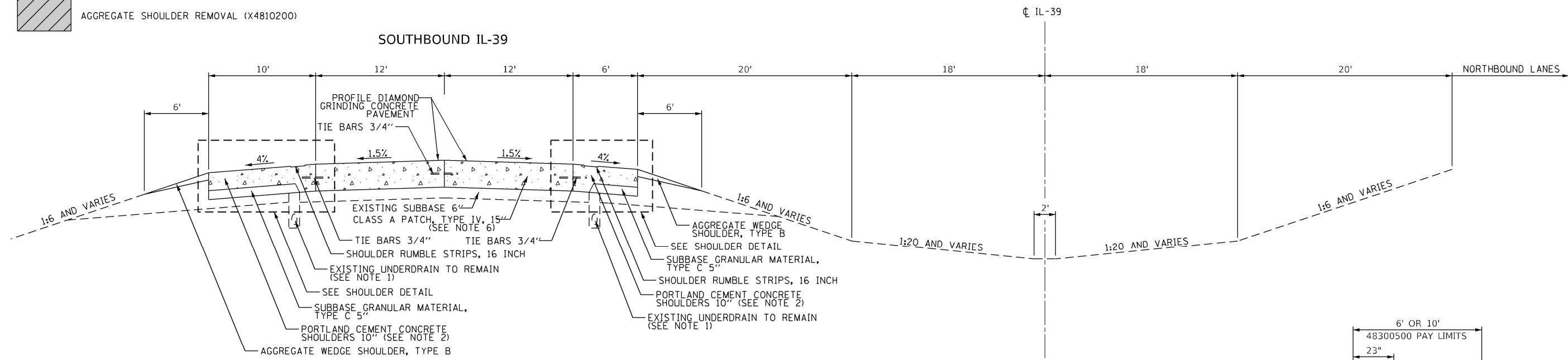
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39	(141-1)WIM	OGLE	31	4
			CONTRACT NO. 64R62	
ILLINOIS FED. AID PROJECT				



EXISTING TYPICAL SECTION

REMOVAL LEGEND:

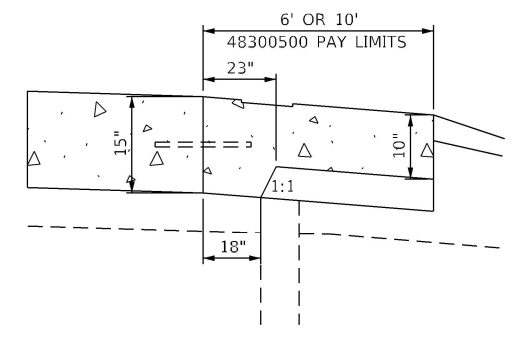
- PAVEMENT REMOVAL (PAID FOR AS CLASS A PATCH, TYPE IV, 15" (44200632))
- PAVED SHOULDER REMOVAL (44004250)
- AGGREGATE SHOULDER REMOVAL (X4810200)



PROPOSED TYPICAL SECTION

NOTES:

1. EXISTING PIPE UNDERDRAINS SHALL BE PRESERVED AND PROTECTED DURING CONSTRUCTION. ANY DAMAGE TO EXISTING UNDERDRAINS RESULTING FROM CONSTRUCTION ACTIVITY SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
2. QUANTITY FOR PORTLAND CEMENT CONCRETE SHOULDERS 10" (48300500) SHALL INCLUDE ALL CONCRETE WORK AS SHOWN ON "SHOULDER DETAIL," SEE IDOT STANDARD DETAIL 483001-06 (PCC SHOULDER) FOR ADDITIONAL INFORMATION.
3. PAVEMENT REINFORCEMENT NOT SHOWN IN TYPICAL SECTIONS FOR CLARITY. SEE SHEET 7 FOR PAVEMENT REINFORCEMENT DETAILS.
4. TIE BARS BETWEEN DRIVE LANES AND SHOULDERS TO BE SPACED AT 36" C-C.
5. SEE STANDARD DETAIL 420001-10 FOR SHOULDER PAVEMENT JOINTS.
6. HIGH-EARLY-STRENGTH PORTLAND CEMENT CONCRETE IS REQUIRED FOR PAVEMENT PATCHING AS LANE CLOSURES ARE ONLY ALLOWED OVERNIGHT AND TRAFFIC LANES MUST BE REOPENED THE NEXT MORNING BY 6AM.
7. TIE BARS 3*4" BETWEEN LANE PAVEMENT AND SHOULDERS TO BE DRILLED AND GROUTED AS NEEDED.
8. PROTECTIVE COAT (42001300) SHALL BE APPLIED TO ALL PCC SHOULDERS.



SHOULDER DETAIL

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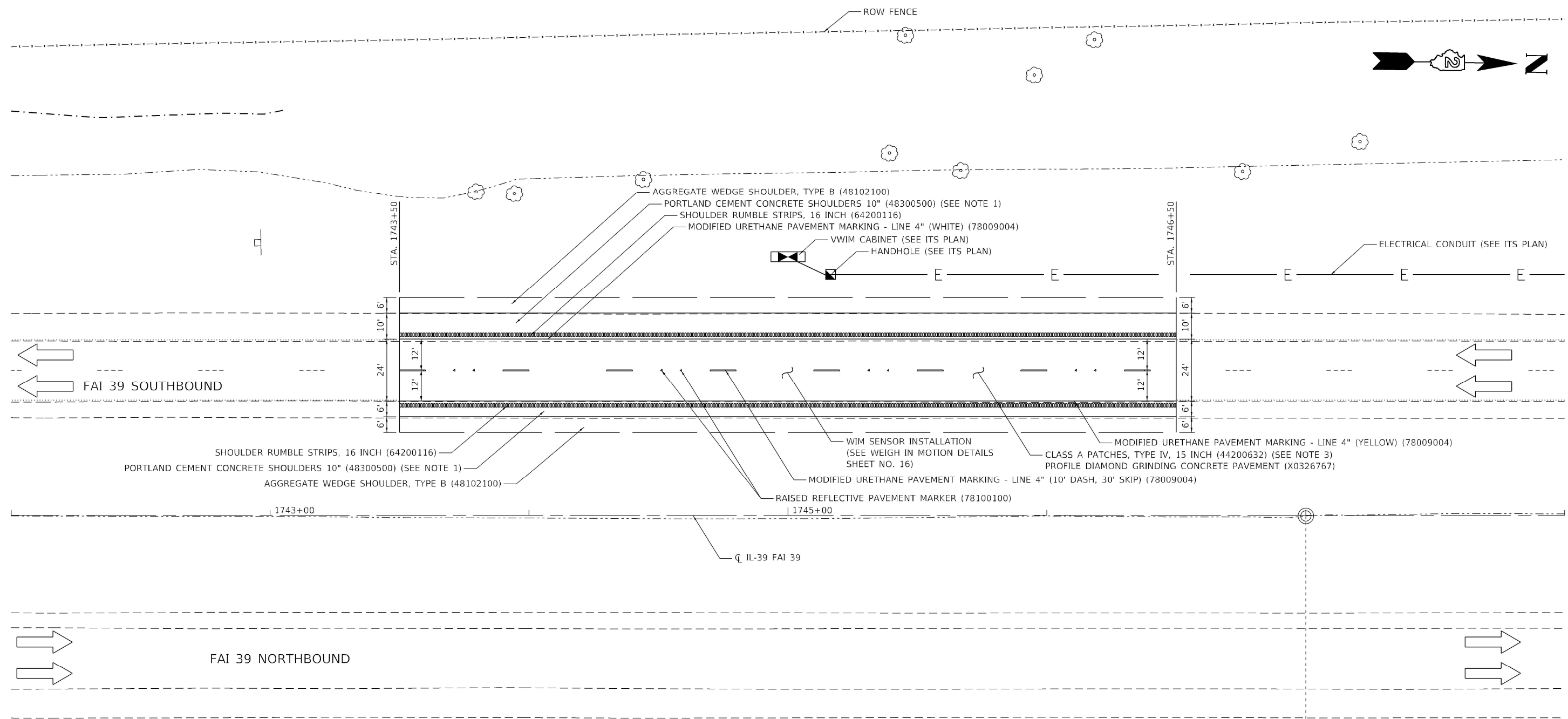
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	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FAI ROUTE 39 (I-39)
TYPICAL SECTIONS

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

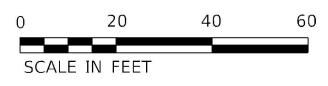
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39	(141-1)WIM	OGLE	31	5
CONTRACT NO. 64R62				
ILLINOIS FED. AID PROJECT				



EXISTING IL-39 ALIGNMENT DATA

STATION	NORTHING	EASTING
1680+00	1936948.9338	2608186.8370
1900+00	1958945.0562	2607773.8007

- NOTES:**
1. QUANTITY FOR PORTLAND CEMENT CONCRETE SHOULDERS 10" (48300500) SHALL INCLUDE ALL CONCRETE WORK AS SHOWN ON "SHOULDER DETAIL" ON SHEET NO. 5. SEE IDOT STANDARD DETAIL 483001-06 (PCC SHOULDER) FOR ADDITIONAL INFORMATION.
 2. SEE STANDARD DETAIL 420001-10 FOR SHOULDER PAVEMENT JOINTS.
 3. HIGH-EARLY-STRENGTH PORTLAND CEMENT CONCRETE IS REQUIRED FOR PAVEMENT PATCHING AS LANE CLOSURES ARE ONLY ALLOWED OVERNIGHT AND TRAFFIC LANES MUST BE REOPENED THE NEXT MORNING BY 6AM.



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 Hanson

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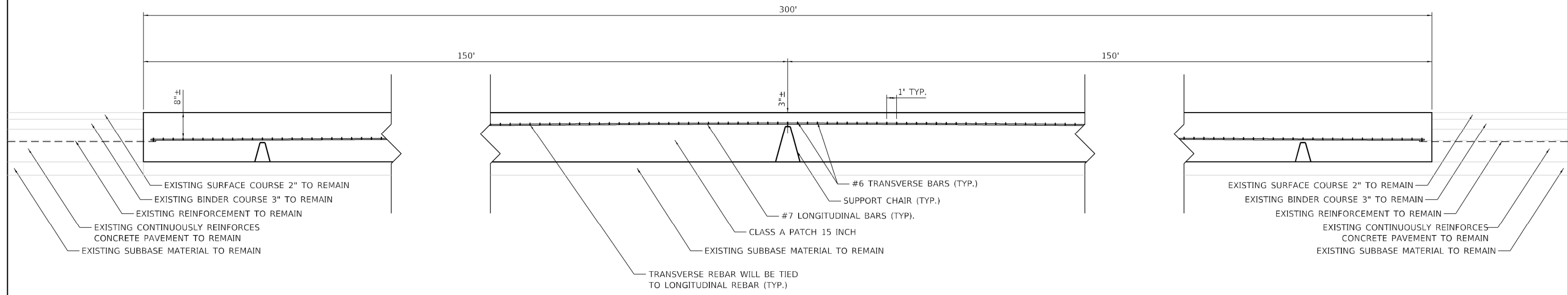
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 DEPARTMENT OF TRANSPORTATION

FAI ROUTE 39 (I-39)
 SITE PLAN

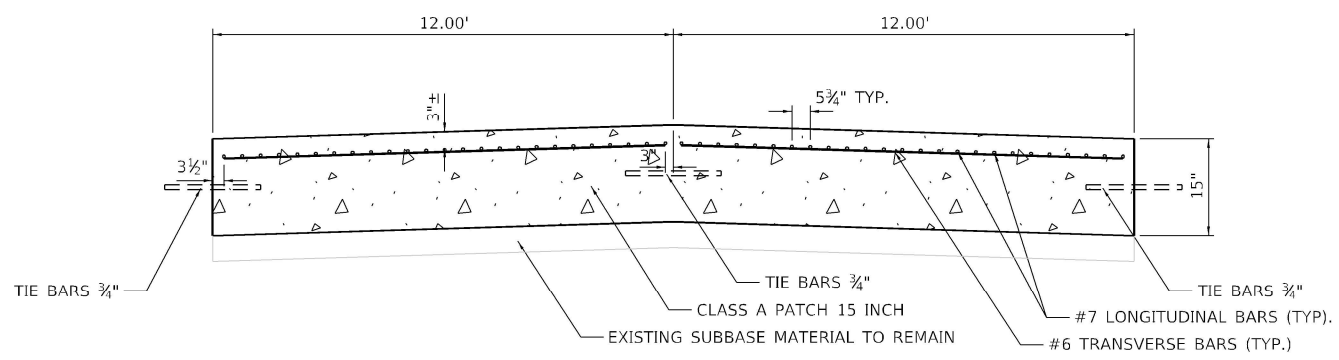
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
39	(141-1)WIM	OGLE	31	6
CONTRACT NO. 64R62				
ILLINOIS FED. AID PROJECT				

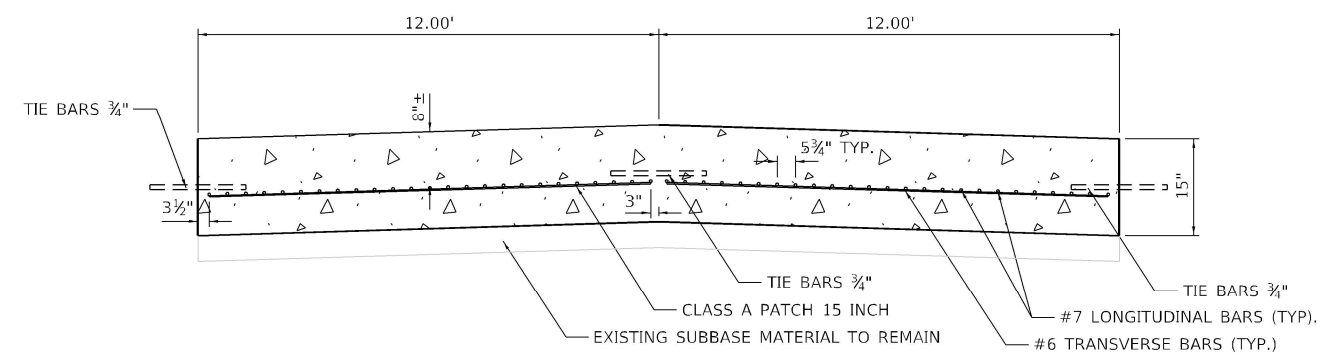
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REINFORCEMENT ELEVATION DETAIL
NOT TO SCALE



REINFORCEMENT TYPICAL SECTION DETAIL (CENTER OF PATCH)
NOT TO SCALE



REINFORCEMENT TYPICAL SECTION DETAIL (ENDS OF PATCH)
NOT TO SCALE

- NOTES:**
- IF LOOP IS INSTALLED OVER REBAR, THERE MUST BE A MINIMUM OF 2 INCHES OF CONCRETE BELOW AND A MINIMUM OF 1.00 INCH OF FILL ABOVE THE WIRES.
 - #6 AND #7 BARS ARE PAID FOR AS PATCHING REINFORCEMENT (44213000)



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DEPARTMENT OF TRANSPORTATION**

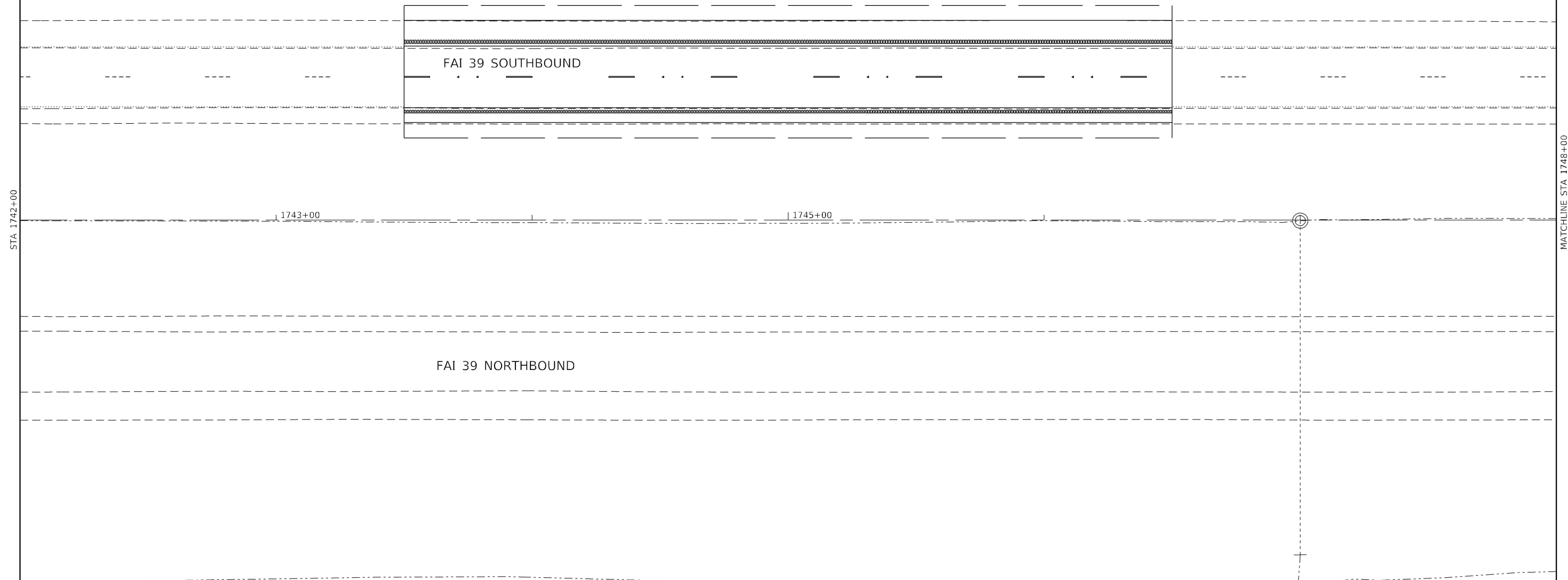
**FAI ROUTE 39 (I-39)
REINFORCEMENT DETAILS**

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
39	(141-1)WIM	OGLE	31	7
CONTRACT NO. 64R62				
ILLINOIS FED. AID PROJECT				

ELECTRICAL SCHEDULE OF QUANTITIES

STATION	STATION	OFFSET	UNDGRD CNC 1 1/2 (8108740) (FEET)	HANDHOLE (81400100) (EACH)	ECC XLP USE 1C 6 (81702130) (FEET)	ECC XLP USE 1C 2 (81702150) (FEET)	SERV INSTALL TY A MOD (X8050115) EACH	F&I WEIGH-IN-MOT COMP (Z0026290) EACH
1742+00	1748+00	LT	603	1	307	921	0	1
1748+00	1754+00	LT	1200	1	603	1809	0	0
1754+00	1760+00	LT	1200	1	603	1810	0	0
1760+00	1766+00	LT	1200	1	603	1810	0	0
1766+00	1772+00	LT	1222	1	614	1842	0	0
1772+00	1775+50	LT	929	1	468	1403	0	0
1775+50	1778+18	LT	1179	1	592	1777	0	0
1778+18	1781+65	LT	428	1	189	763	1	0



NOTE

1. THE CABINET SHALL BE PLACED A MINIMUM OF 30' FROM THE EDGE OF THE TRAVELED WAY.
2. SEE SHEETS 16-27 FOR FURTHER DETAILS.



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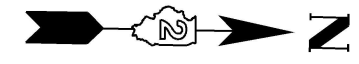
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	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FAI ROUTE 39 (I-39)
ITS PLAN

SCALE: 1"=20' SHEET ITS-1 OF 8 SHEETS STA. 1742+00 TO STA. 1748+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
39	(141-1)WIM	OGLE	31	8
CONTRACT NO. 64R62			ILLINOIS FED. AID PROJECT	



2-1½" CNC CONDUIT (81028740)
 3-1/C #2 XLP-TYPE USE (81702150)
 1-1/C #6 XLP-TYPE USE (GND) (81702130)

HANDHOLE (81400100)
 STA 1750+88
 93' LT

2-1½" CNC CONDUIT (81028740)
 3-1/C #2 XLP-TYPE USE (81702150)
 1-1/C #6 XLP-TYPE USE (GND) (81702130)

PAVED SHOULDER

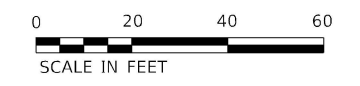
FAI 39 SOUTHBOUND

FAI 39 NORTHBOUND

1750+00

MATCHLINE STA 1748+00

MATCHLINE STA 1754+00



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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**FAI ROUTE 39 (I-39)
 ITS PLAN**

SCALE: 1"=20' SHEET ITS-2 OF 8 SHEETS STA. 1748+00 TO STA. 1754+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
39	(141-1)WIM	OGLE	31	9
CONTRACT NO. 64R62			ILLINOIS FED. AID PROJECT	



EXISTING FIBER OPTIC VAULT #20
 STA 1759+09
 152' LT

2-1½" CNC CONDUIT (81028740)
 3-1/C #2 XLP-TYPE USE (81702150)
 1-1/C #6 XLP-TYPE USE (GND) (81702130)

HANDHOLE (81400100)
 STA 1756+73
 93' LT

2-1½" cnc conduit (81028740)
 3-1/C #2 XLP-TYPE USE (81702150)
 1-1/C #6 XLP-TYPE USE (GND) (81702130)

FAI 39 SOUTHBOUND

FAI 39 NORTHBOUND

1755+00

MATCHLINE STA 1754+00

MATCHLINE STA 1760+00



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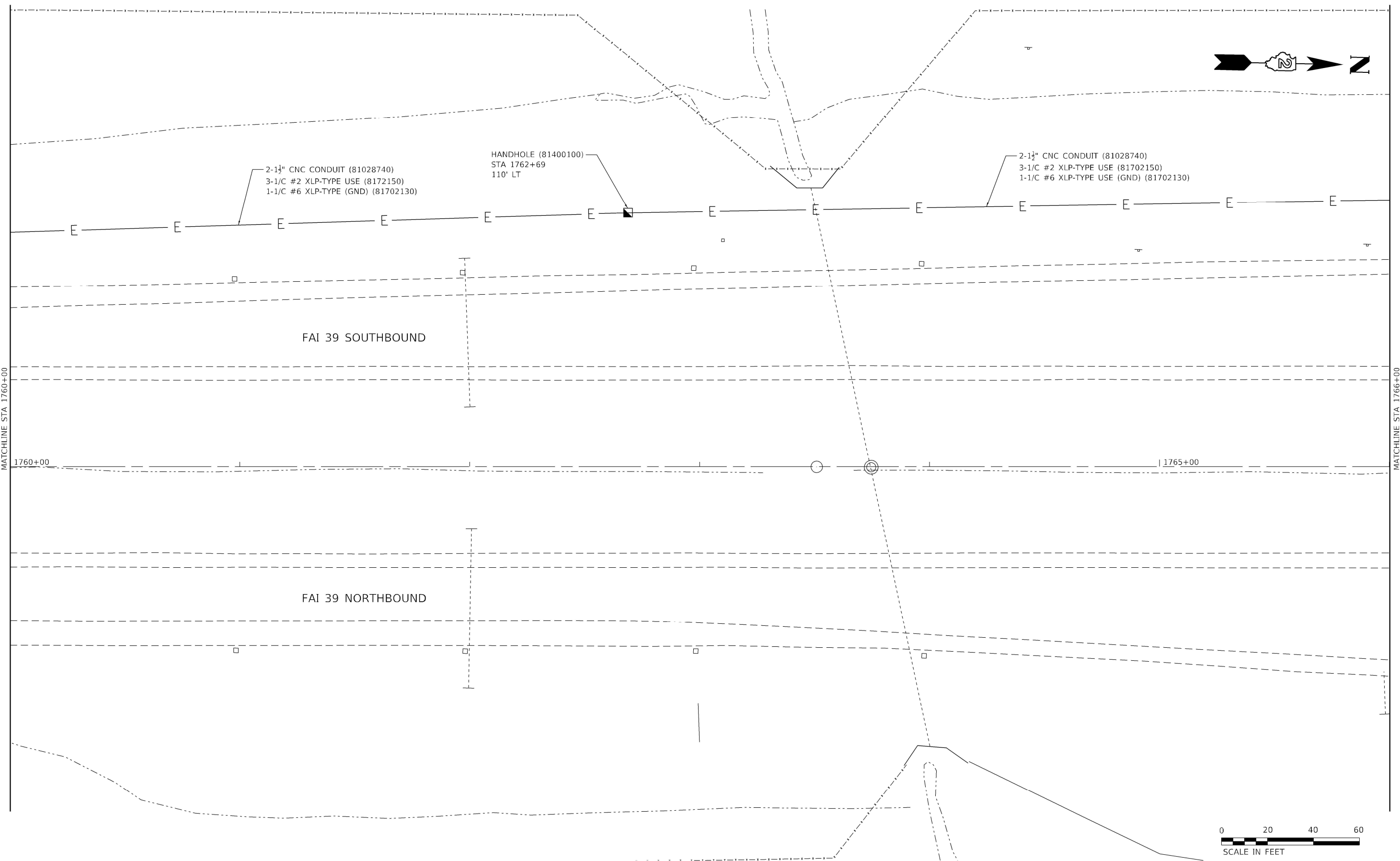
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**FAI ROUTE 39 (I-39)
 ITS PLAN**

SCALE: 1"=20' SHEET ITS-3 OF 8 SHEETS STA. 1754+00 TO STA. 1760+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
39	(141-1)WIM	OGLE	31	10
CONTRACT NO. 64R62				
ILLINOIS FED. AID PROJECT				



2-1 1/2" CNC CONDUIT (81028740)
 3-1/2" #2 XLP-TYPE USE (8172150)
 1-1/2" #6 XLP-TYPE (GND) (81702130)

HANDHOLE (81400100)
 STA 1762+69
 110' LT

2-1 1/2" CNC CONDUIT (81028740)
 3-1/2" #2 XLP-TYPE USE (81702150)
 1-1/2" #6 XLP-TYPE USE (GND) (81702130)

FAI 39 SOUTHBOUND

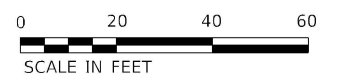
FAI 39 NORTHBOUND

MATCHLINE STA. 1760+00

MATCHLINE STA. 1766+00

1760+00

1765+00



MODEL: Default
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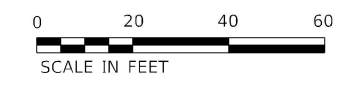
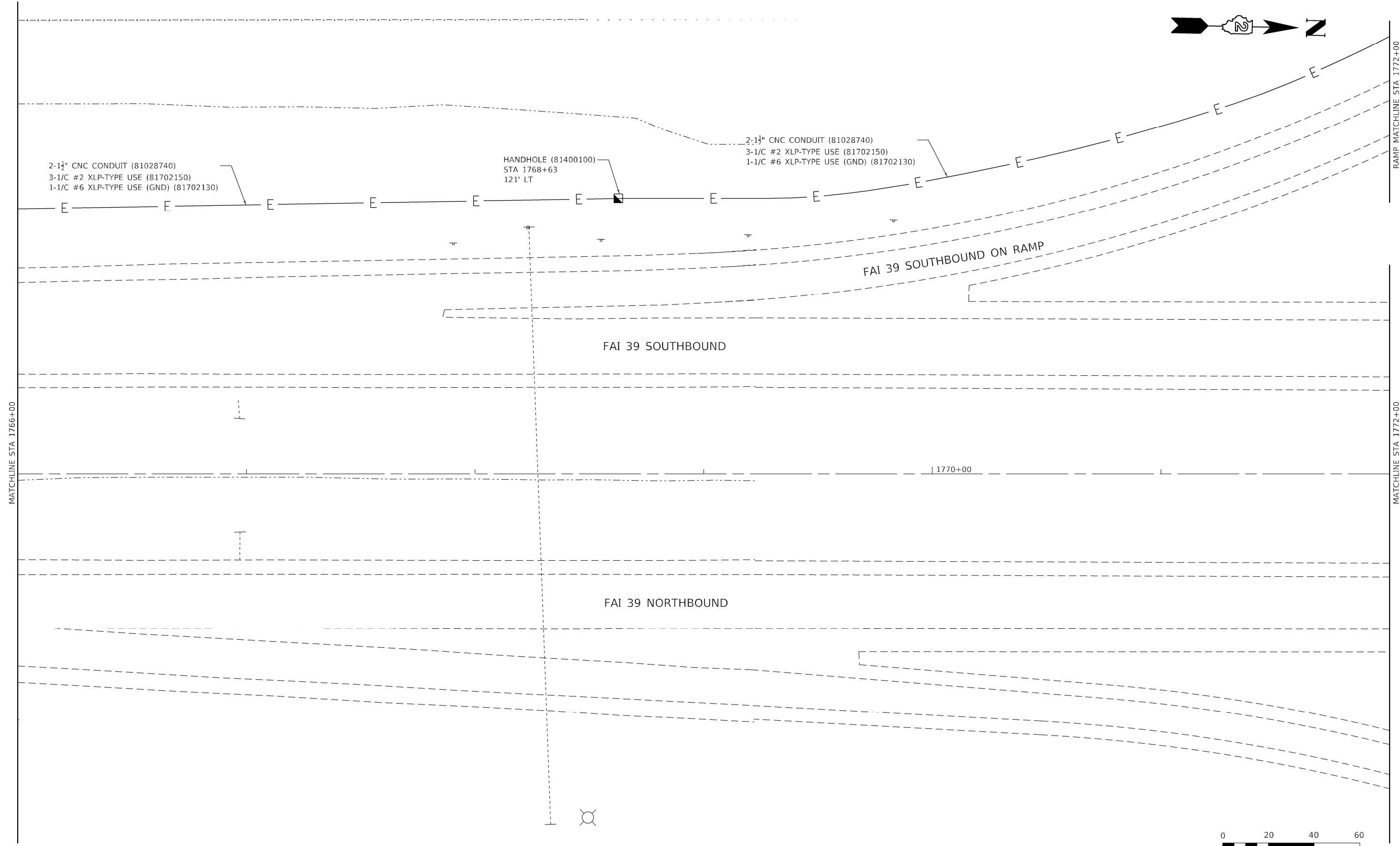
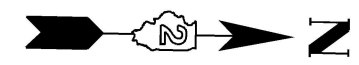
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**FAI ROUTE 39 (I-39)
 ITS PLAN**

SCALE: 1"=20' SHEET ITS-4 OF 8 SHEETS STA. 1760+00 TO STA. 1766+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
39	(141-1)WIM	OGLE	31	11
CONTRACT NO. 64R62				
ILLINOIS FED. AID PROJECT				



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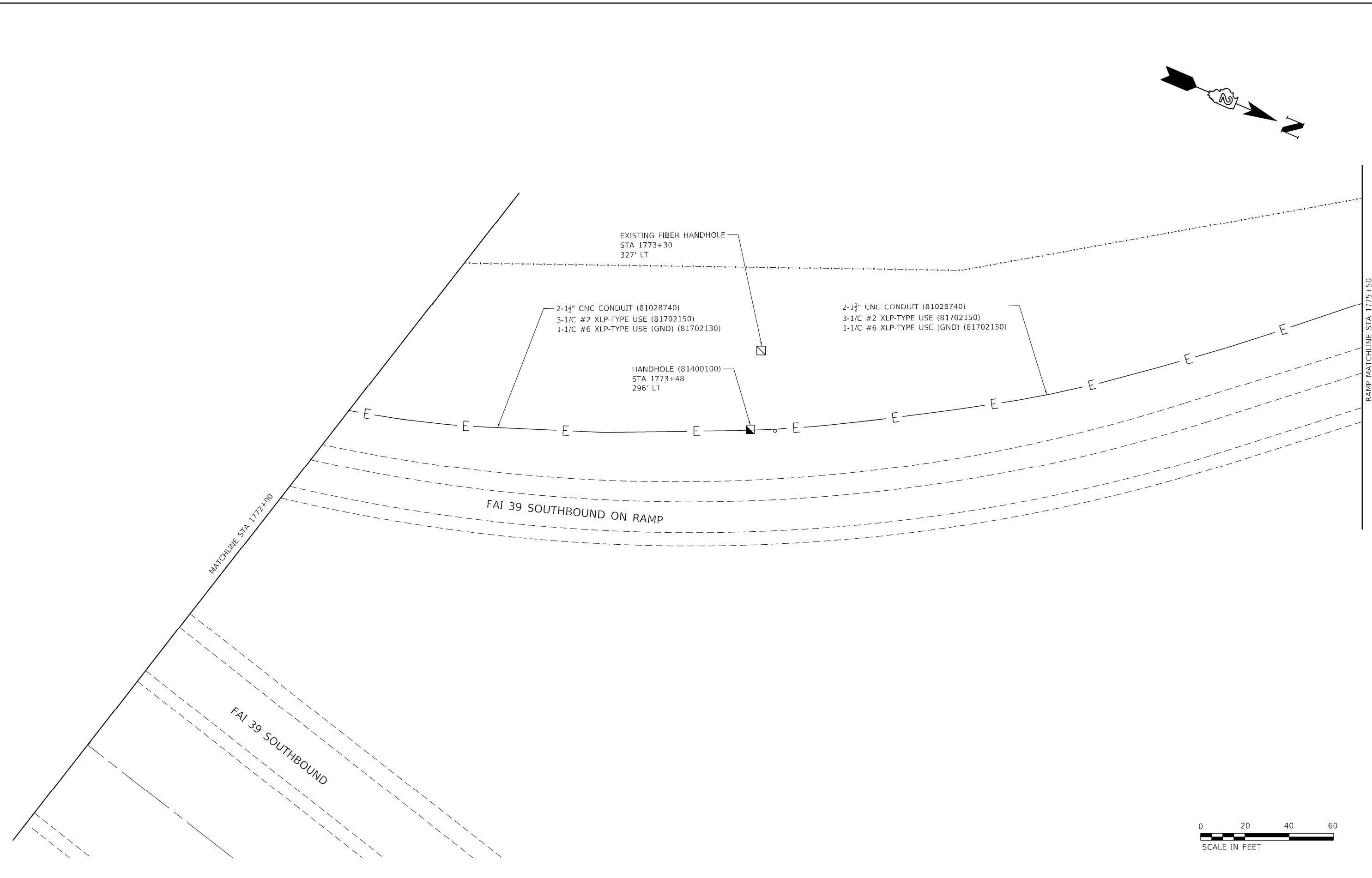
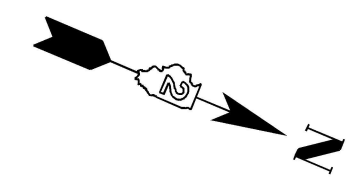
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PLOT DATE = 4/8/2022	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FAI ROUTE 39 (I-39)
ITS PLAN

SCALE: 1"=20' SHEET ITS-5 OF 8 SHEETS STA. 1766+00 TO STA. 1772+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
39	(141-1)WIM	OGLE	31	12
CONTRACT NO. 64R62				
ILLINOIS FED. AID PROJECT				



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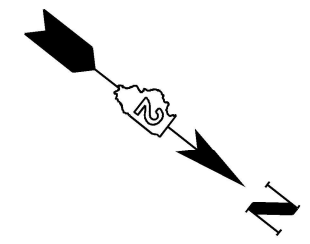
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DEPARTMENT OF TRANSPORTATION**

**FAI ROUTE 39 (I-39)
ITS PLAN**

SCALE: 1"=20' SHEET ITS-6 OF 8 SHEETS STA. 1770+86 TO STA. 1775+50

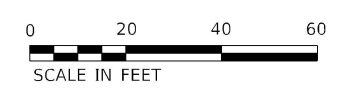
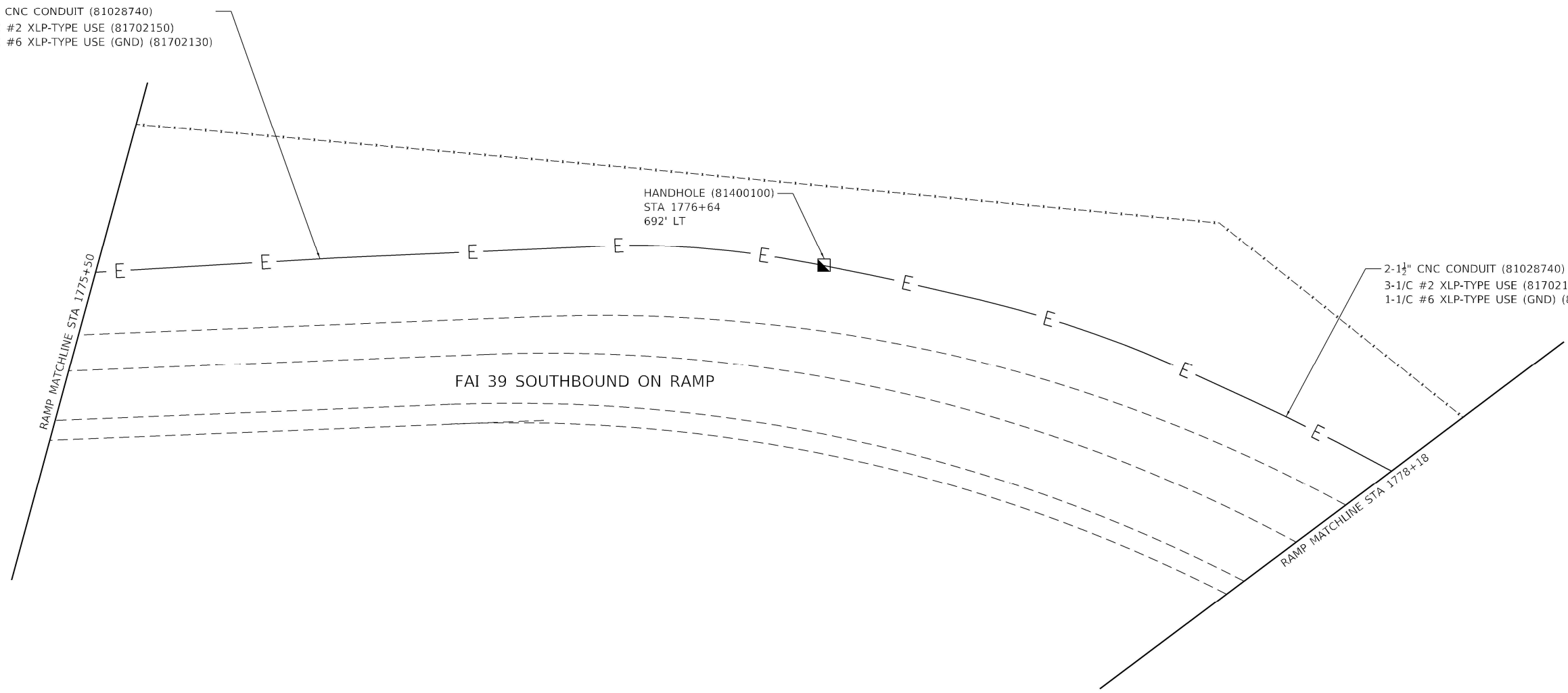
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
39	(141-1)WIM	OGLE	31	13
CONTRACT NO. 64R62				
ILLINOIS FED. AID PROJECT				



2-1½" CNC CONDUIT (81028740)
 3-1/C #2 XLP-TYPE USE (81702150)
 1-1/C #6 XLP-TYPE USE (GND) (81702130)

HANDHOLE (81400100)
 STA 1776+64
 692' LT

2-1½" CNC CONDUIT (81028740)
 3-1/C #2 XLP-TYPE USE (81702150)
 1-1/C #6 XLP-TYPE USE (GND) (81702130)



MODEL Default
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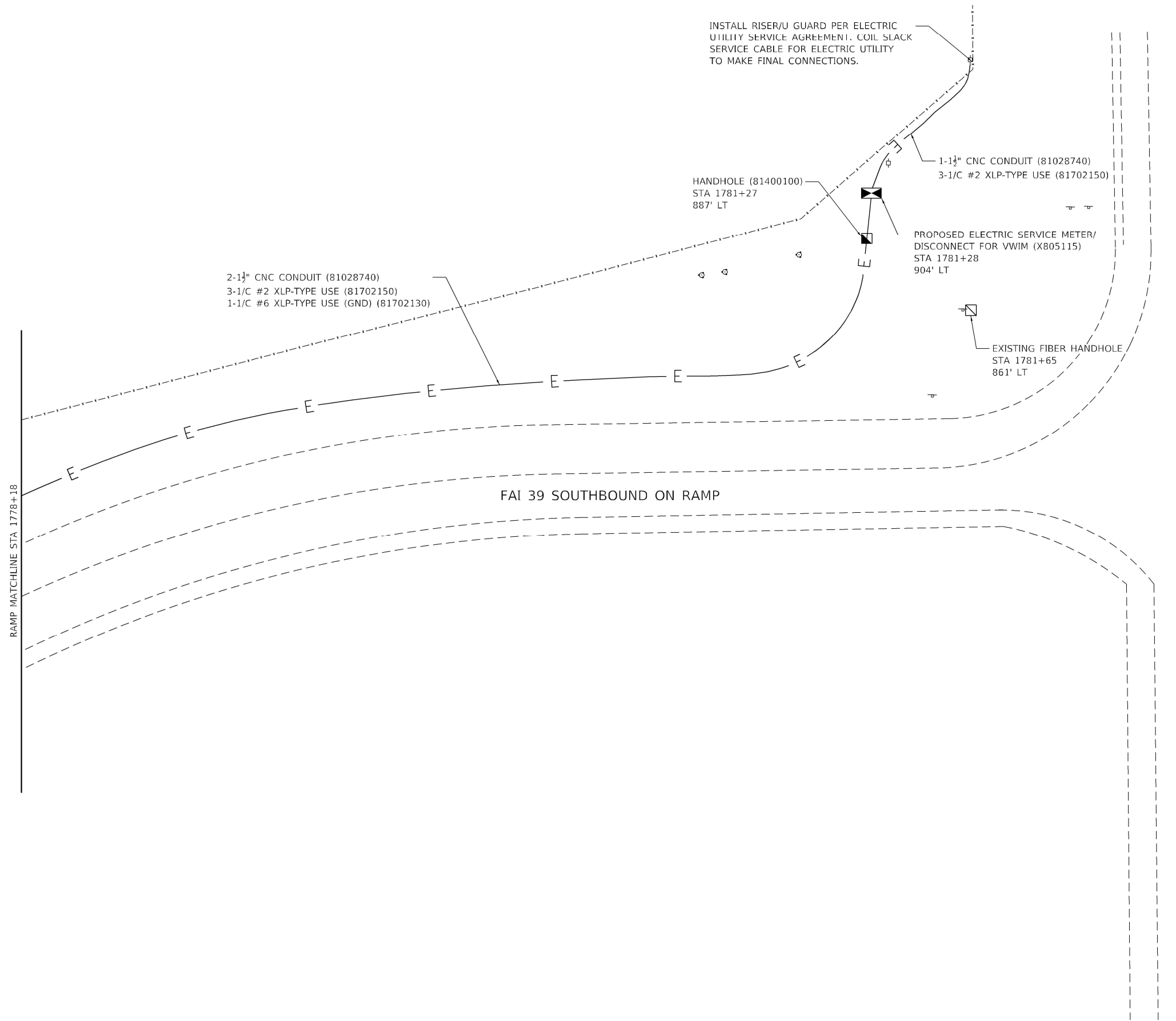
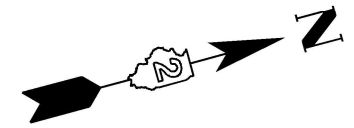
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**FAI ROUTE 39 (I-39)
 ITS PLAN**

SCALE: 1"=20' SHEET ITS-7 OF 8 SHEETS STA. 1776+82 TO STA. 1780+10

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
39	(141-1)WIM	OGLE	31	14
CONTRACT NO. 64R62				
ILLINOIS FED. AID PROJECT				



INSTALL RISER/U GUARD PER ELECTRIC UTILITY SERVICE AGREEMENT. COIL SLACK SERVICE CABLE FOR ELECTRIC UTILITY TO MAKE FINAL CONNECTIONS.

2-1½" CNC CONDUIT (81028740)
3-1/C #2 XLP-TYPE USE (81702150)
1-1/C #6 XLP-TYPE USE (GND) (81702130)

HANDHOLE (81400100)
STA 1781+27
887' LT

1-1½" CNC CONDUIT (81028740)
3-1/C #2 XLP-TYPE USE (81702150)

PROPOSED ELECTRIC SERVICE METER/
DISCONNECT FOR VWIM (X805115)
STA 1781+28
904' LT

EXISTING FIBER HANDHOLE
STA 1781+65
861' LT

IL 64

FAI 39 SOUTHBOUND ON RAMP

RAMP MATCHLINE STA 1778+18



MODEL Default
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PLOT DATE = 4/8/2022	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**FAI ROUTE 39 (I-39)
ITS PLAN**

SCALE: 1"=20' SHEET ITS-8 OF 8 SHEETS STA. 1778+18 TO STA. 1782+40

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
39	(141-1)WIM	OGLE	31	15
CONTRACT NO. 64R62				
ILLINOIS FED. AID PROJECT				

NOTES:

- A** CABINET WITH WIM ELECTRONICS (SEE SHEET 20, 26, AND 27 FOR INSTALLATION DETAILS).
- B** CABINET BASE (SEE SHEET 27 FOR INSTALLATION DETAILS).
- C** HANDHOLE.
- D** DRILL THROUGH SHOULDER FOR CONDUIT.
- E** PAVEMENT ON EITHER SIDE OF EACH SENSOR MUST BE FREE OF JOINTS AND CRACKS FOR 2'.
- F** SITE CONDITIONS AS PER ASTM E1318-02 FOR ALL LANES.
- G** CONDUIT SHALL BE PLACED USING DIRECT BORING, JACKING OR ALTERNATIVE METHOD THAT DOES NOT REQUIRE THE SURFACE OF THE ROAD TO BE CUT AND SHALL BE INSTALLED BELOW THE PIPE UNDERDRAINS.
- H** POLE LOCATION MUST ALLOW ADEQUATE CLEAR ZONE OR PROTECT WITH GUARDRAIL OR USE OF BREAK-AWAY POLE AS REQUIRED BY LOCAL CONSTRUCTION CODES.

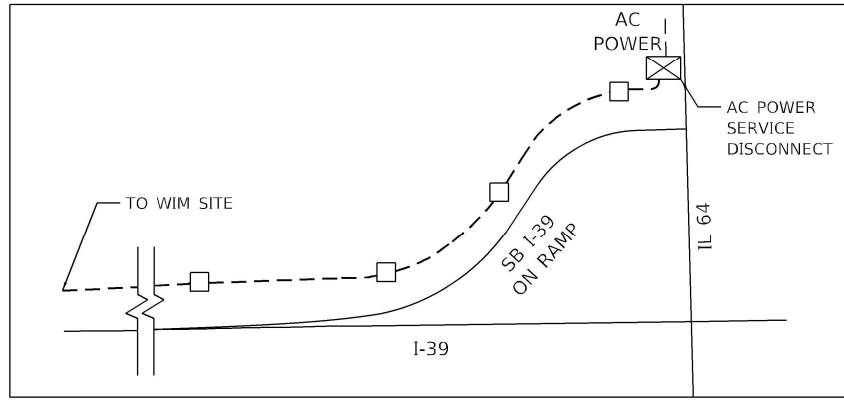
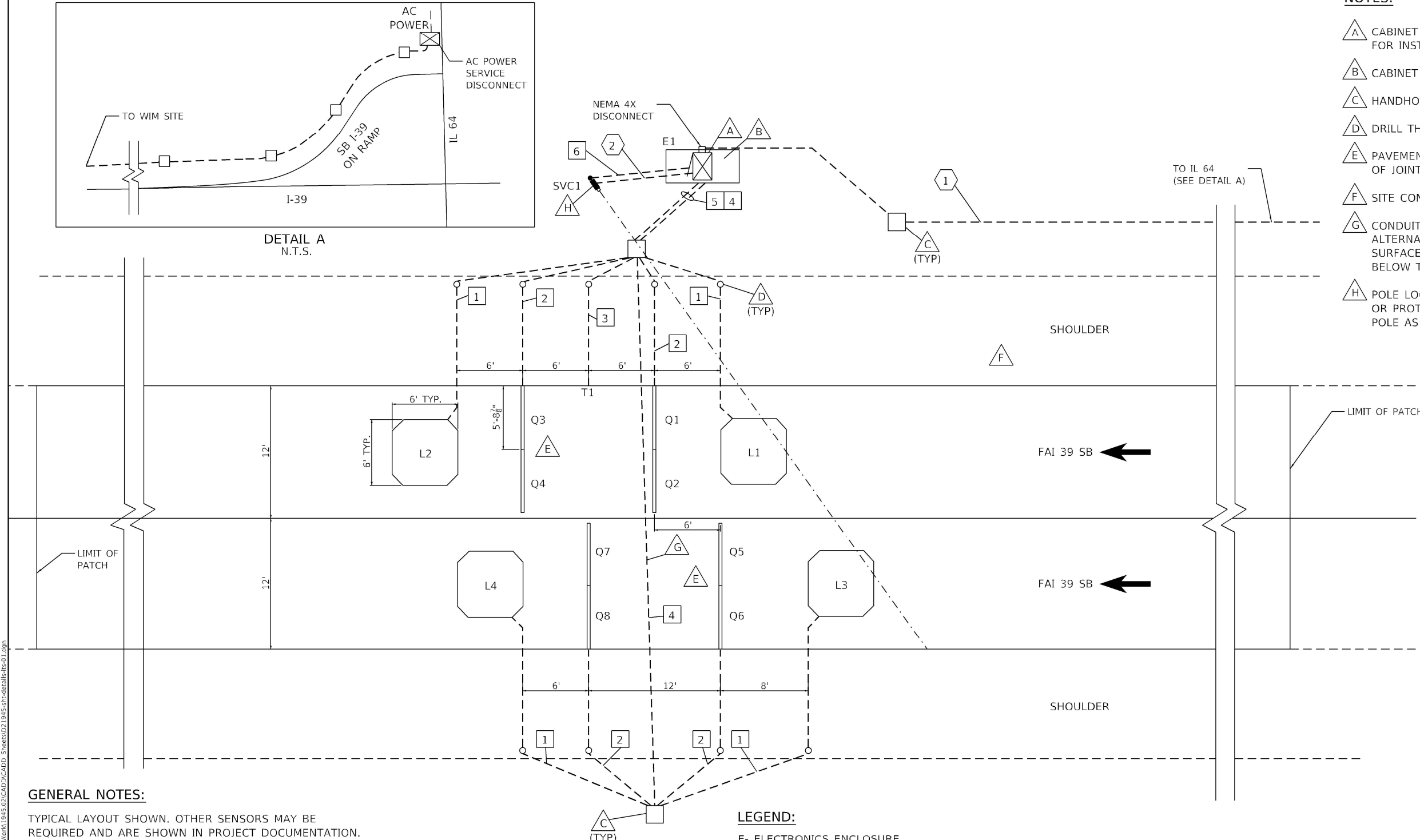
SIGNAL CONDUITS:

- 1** 1" CONDUIT
1-LOOP WIRE 1C#14
- 2** 1" CONDUIT
2-QUARTZ LEADS
2-RG 58 COAXIAL CABLE
2-8 AWG GROUNDS
- 3** 1" CONDUIT
1-TEMPERATURE SENSOR LEAD
- 4** 2½" CONDUIT
2-LOOP LEADS (2-1 PR #14)
4-QUARTZ LEADS
(4-RG 58 COAXIAL CABLES
4-8 AWG GROUNDS)
- 5** 2½" CONDUIT
2-LOOP LEADS (2-1 PR #14)
4-QUARTZ LEADS
(4-RG 58 COAXIAL
4-8 AWG GROUNDS)
1-TEMPERATURE SENSOR LEAD
- 6** 2" CONDUIT
CAT 5 NETWORK CABLE

POWER CONDUITS:

- 1** CABINET ENCLOSURE POWER 3-1/C #2
1-1/C #6 GROUND IN 1½" CONDUIT
- 2** SVC CAMERA POWER 2-1/C #12,
#12 GROUND IN 1½" CONDUIT

**SITE LAYOUT
VIRTUAL WEIGH STATION**



**DETAIL A
N.T.S.**

GENERAL NOTES:

TYPICAL LAYOUT SHOWN. OTHER SENSORS MAY BE REQUIRED AND ARE SHOWN IN PROJECT DOCUMENTATION.

SENSOR SPACING SHOWN IS TYPICAL SPACING REQUIREMENT, ACTUAL SENSOR SPACING MAY BE ALTERED TO SUIT SITE CONDITIONS BY THE MANUFACTURER FIELD REPRESENTATIVE.

ALL CONNECTIONS BETWEEN SENSORS AND LEAD CABLES ARE DONE IN HANDHOLE AND ARE SOLDERED THEN SEALED FOR WATERPROOFING.

CABLES MUST BE PROTECTED BY PVC SLEEVES WHERE THEY CROSS PAVEMENT JOINTS/CRACKS.

WIM HANDHOLES/PULLBOXES BE NO FURTHER THAN 200' APART. THE MINIMUM SIZE FOR WIM HANDHOLES/PULLBOXES IS 18" X 18" X 12".

LEGEND:

- E - ELECTRONICS ENCLOSURE
- L - INDUCTIVE LOOP
- Q - QUARTZ WIM SENSOR
- SVC - SIDE VIEW CAMERA
- T - TEMPERATURE SENSOR
- CABINET
- SIGNAL CONDUIT
- POWER CONDUIT
- NOTE

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**FAI ROUTE 39 (I-39)
WEIGH IN MOTION DETAILS**

SCALE: N.T.S. SHEET ITD-1 OF 13 SHEETS STA. TO STA.

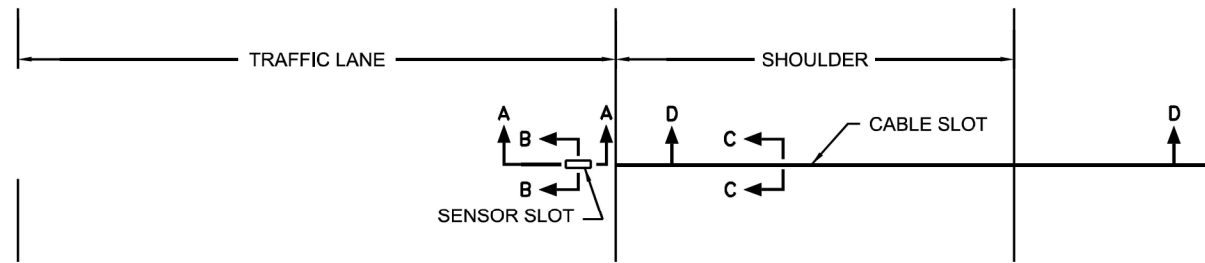
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
39	(141-1)WIM	OGLE	31	16
				CONTRACT NO. 64R62
ILLINOIS FED. AID PROJECT				

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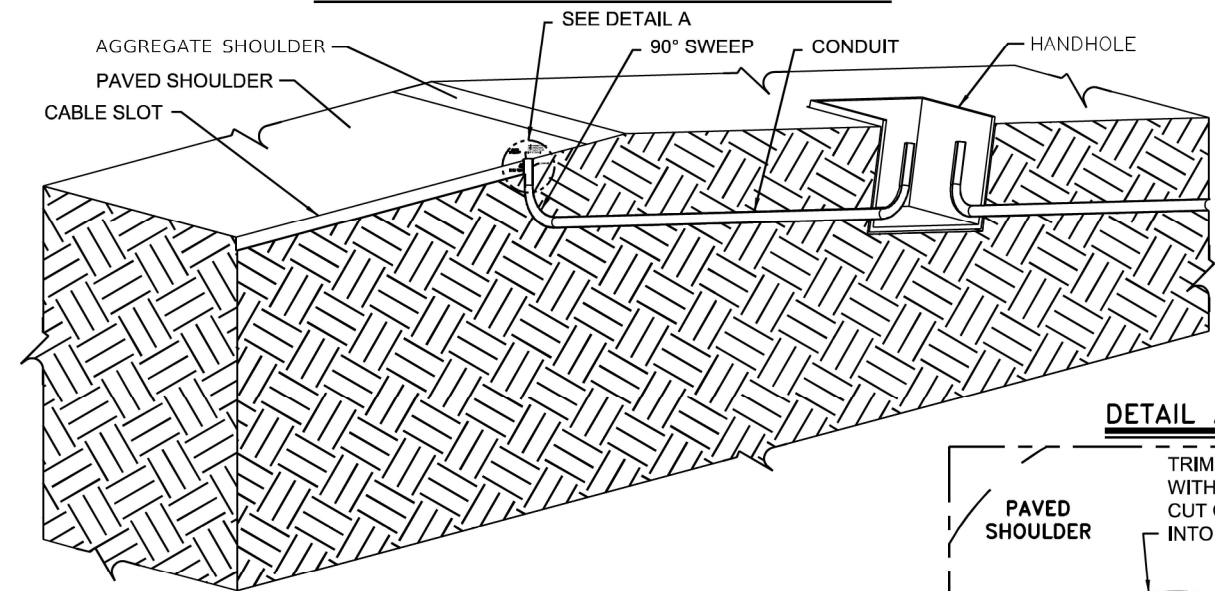
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	DATE -	REVISED -

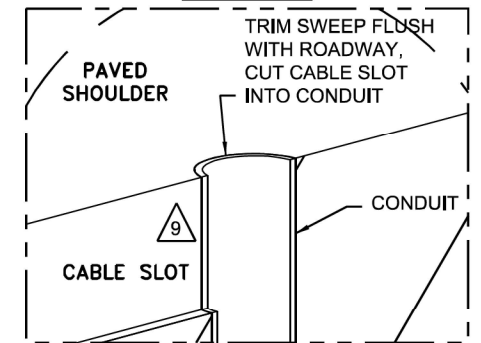
PLAN VIEW – SENSOR INSTALLATION



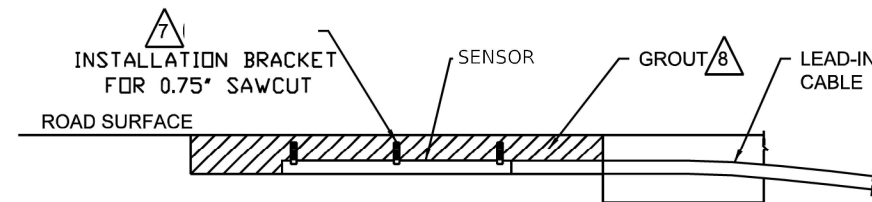
SECTION D-D (CABLE ROUTING DETAILS)



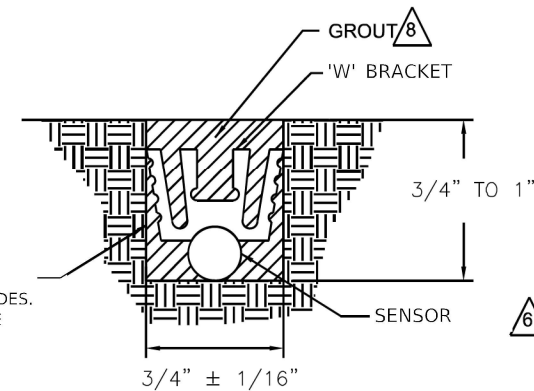
DETAIL A



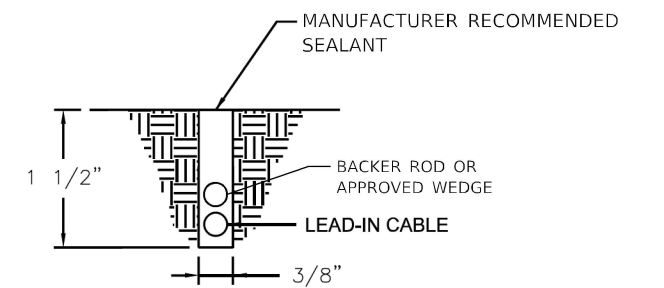
SECTION A-A



SECTION B-B



SECTION C-C



SINGLE PASS CONCRETE SAW CUT WITH MULTIPLE BLADES. SLOT IS CLEAN & DRY BEFORE SENSOR IS INSTALLED.

NOTES: (THIS SHEET ONLY)

- 1 CRACKS OR SAW CUTS IN THE ROADWAY MUST NOT BE LOCATED CLOSER THAN 24" UPSTREAM AND 24" DOWNSTREAM OF THE TEMPERATURE SENSOR.
- 2 SLOT LENGTH IS 4" LONGER THAN SENSOR.
- 3 SET THE SENSOR AT THE CORRECT DEPTH.
- 4 PLACE A BRACKET AT EACH END OF THE SENSOR.
- 5 LOCATE SENSOR IN SAME PAVEMENT AND WITHIN 6' OF THE TEMPERATURE COMPENSATED DEVICE. AVOID PLACING IN WHEEL PATH.
- 6 WEDGE SENSOR AGAINST FLOOR OF CUT UNDER "W" CLIP.
- 7 SPACE THREE BRACKETS EVENLY OVER THE LENGTH OF THE SENSOR.
- 8 USE MANUFACTURER RECOMMENDED GROUT.
- 9 CORE DRILL OR CUT NOTCH IN PAVED SHOULDER FOR SWEEP. PLUG SWEEP OPENING, COVER WITH LOOP SEALANT.

IN-ROADWAY TEMPERATURE SENSOR

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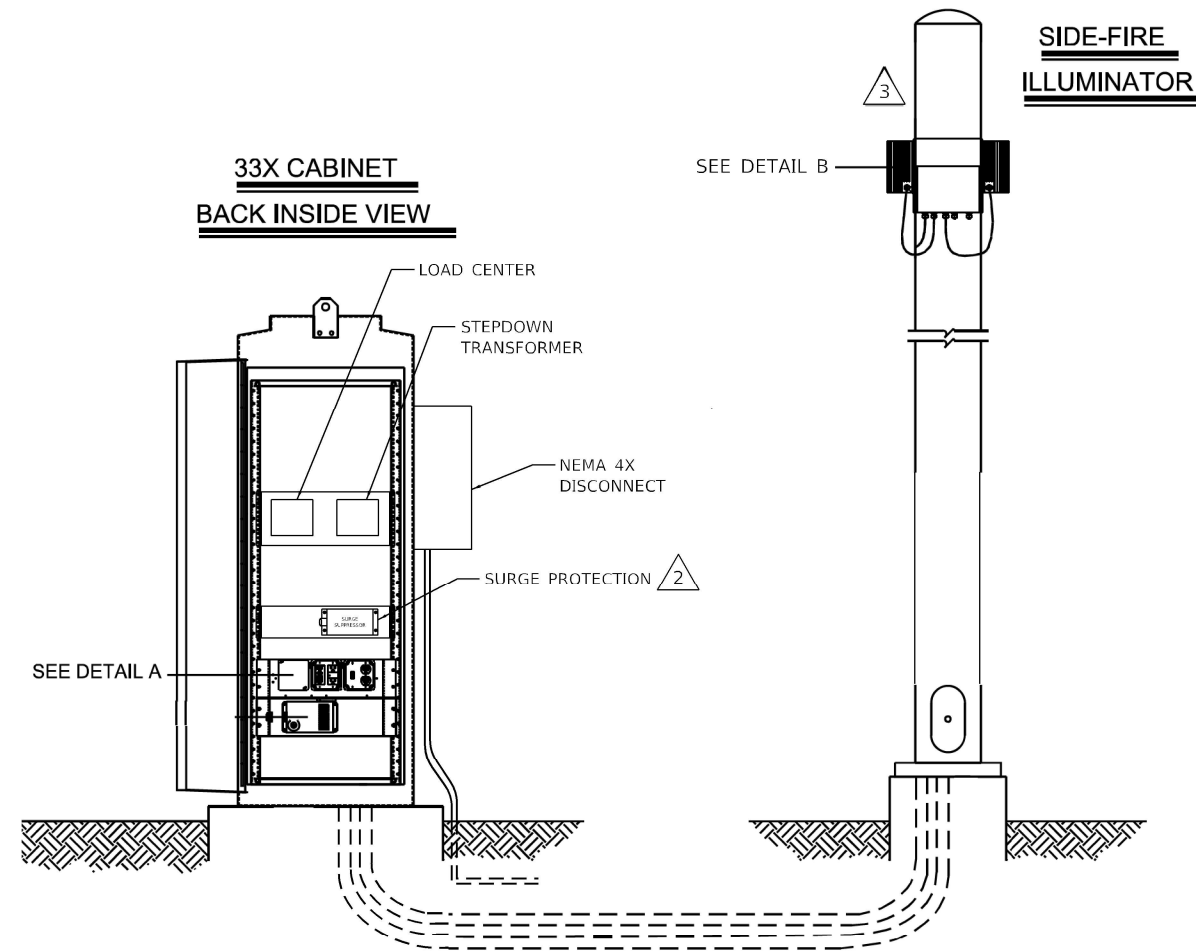
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	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**FAI ROUTE 39 (I-39)
WEIGH IN MOTION DETAILS**

SCALE: N.T.S. SHEET ITD-4 OF 13 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
39	(141-1)WIM	OGLE	31	19
CONTRACT NO. 64R62				
ILLINOIS FED. AID PROJECT				



SEE DETAIL A

SEE DETAIL B

**SIDE-FIRE
ILLUMINATOR**

**33X CABINET
BACK INSIDE VIEW**

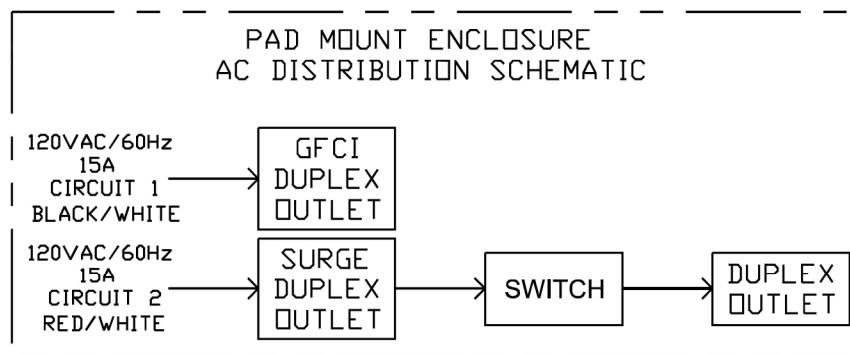
LOAD CENTER

STEPDOWN
TRANSFORMER

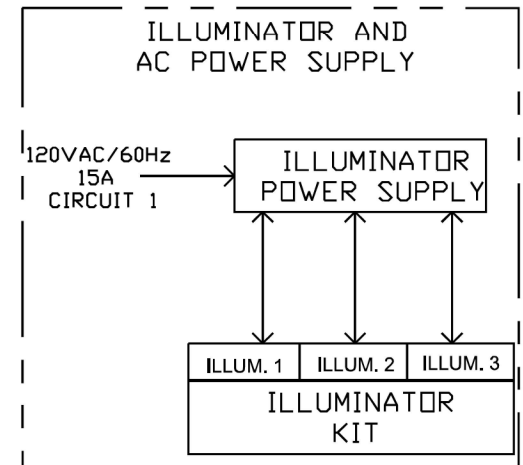
NEMA 4X
DISCONNECT

SURGE PROTECTION

DETAIL A



DETAIL B



NOTES:

- 1 ALL ELECTRICAL DEVICES, GROUNDING, BONDING, WIRING AND MOUNTING MUST MEET THE NATIONAL ELECTRICAL CODE NFPA70 AND LOCAL ELECTRICAL CODE.
- 2 EQUIPMENT MUST BE PROTECTED WITH AN ANSI/IEEE C62.41 CATEGORY C RATED PROTECTION DEVICE WITH A MINIMUM PEAK CURRENT HANDLING CAPABILITY OF 36KA (8/20 S) INSTALLED AT THE LOAD CENTER OR SUB LOAD CENTER.
- 3 REFER TO PRODUCT DOCUMENTATION FOR OEM EQUIPMENT NOT SHOWN.

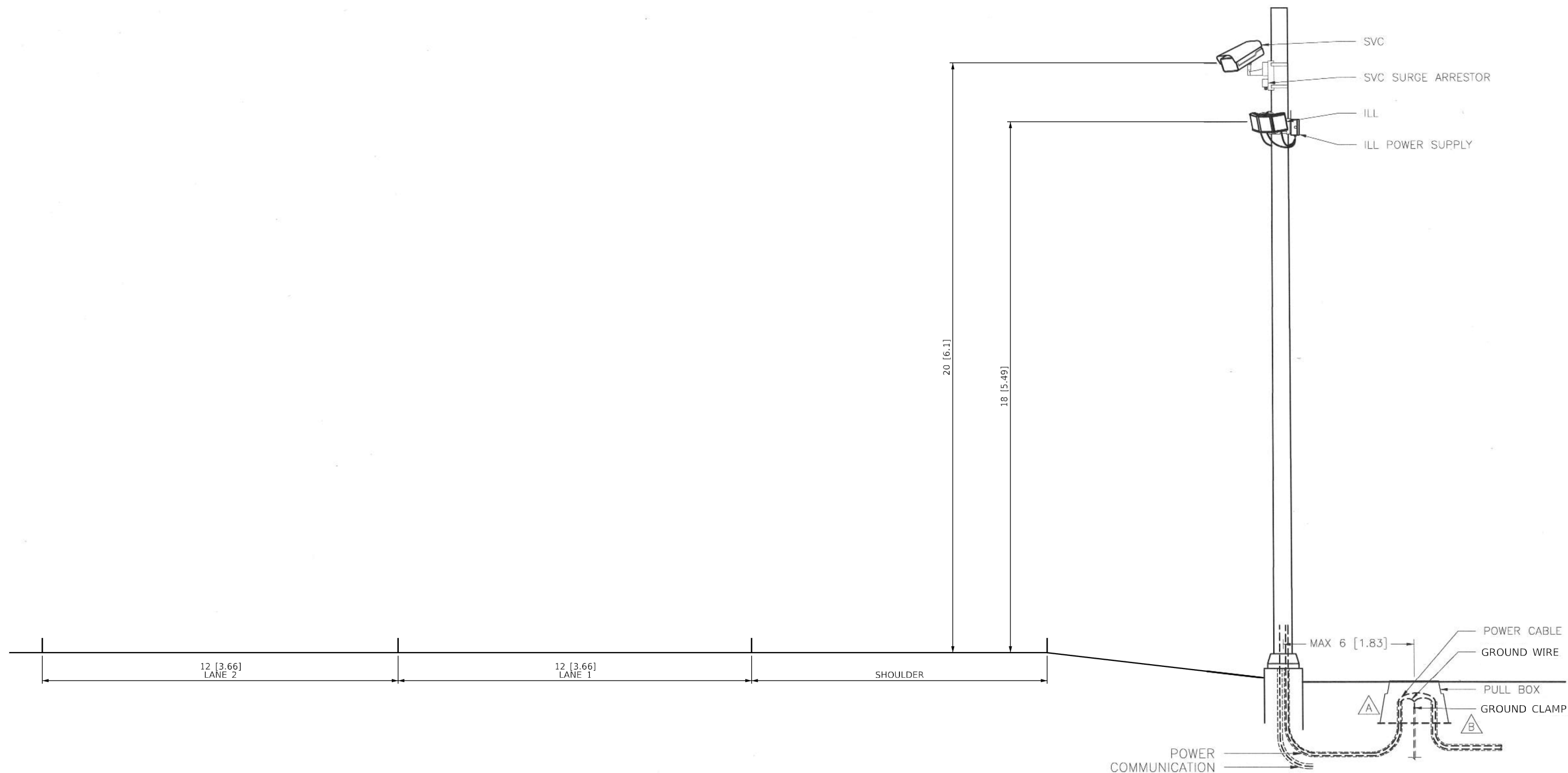
**120VAC CABINET POWER INSTALLATION
AND LOAD CENTER DETAIL**

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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
39	(141-1)WIM	OGLE	31	20
CONTRACT NO. 64R62				
ILLINOIS FED. AID PROJECT				

DETAIL A - SVC POLE



NOTES: (THIS SHEET ONLY)

- A** EQUIPMENT SHOULD BE CONNECTED TO EARTH GROUND IN COMPLIANCE WITH NATIONAL ELECTRICAL CODE AND LOCAL STANDARDS.
- B** BOND POLE GROUND RODS TO CABINET GROUND ROD USING MINIMUM 6 AWG WIRE.
- C** DIMENSIONS ARE NOTED AS XX [YY] FORMAT. WHERE XX IS IN FEET AND YY IS IN METERS.

SITE LAYOUT
I-39 VIRTUAL WEIGHT STATION

MODEL: Default
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DEPARTMENT OF TRANSPORTATION

FAI ROUTE 39 (I-39)
WEIGH IN MOTION DETAILS

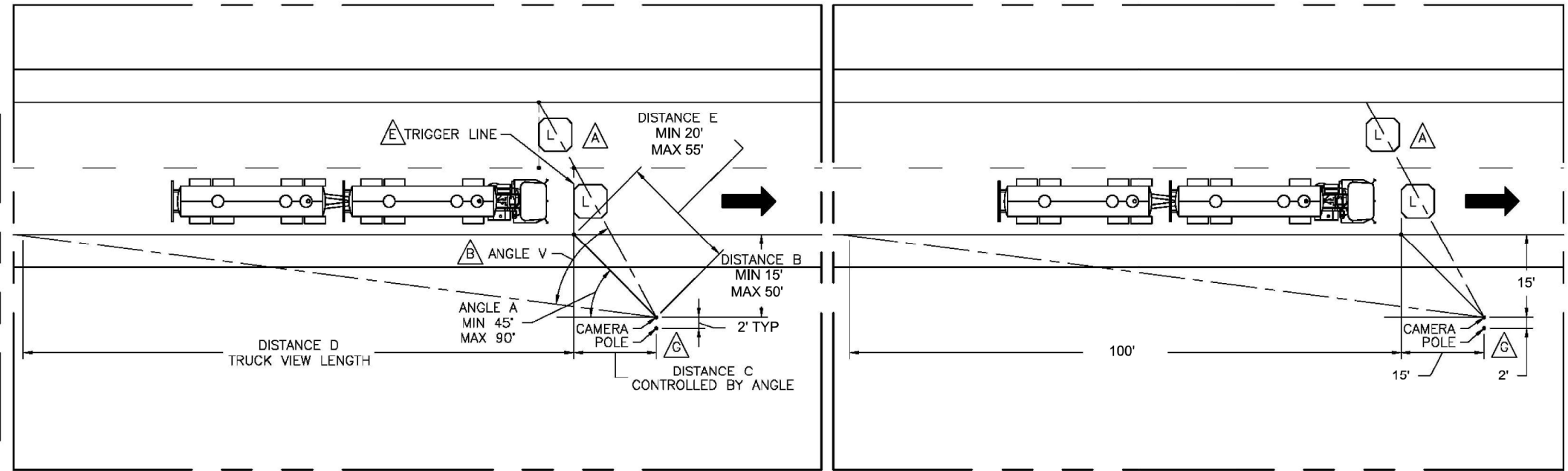
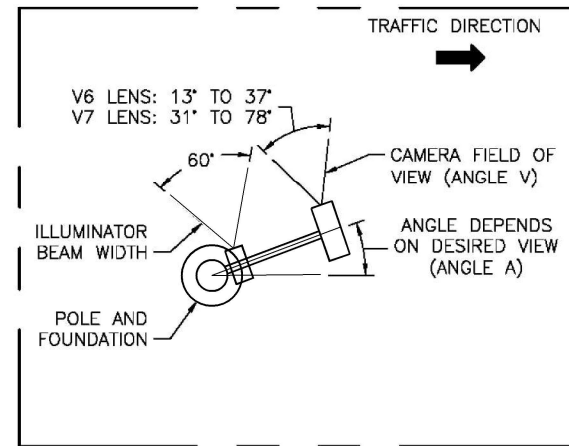
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
39	(141-1)WIM	OGLE	31	21
CONTRACT NO. 64R62				
ILLINOIS FED. AID PROJECT				

CAMERA/POLE GEOMETRY

TYPICAL LAYOUT

TOP VIEW



NOTES: (THIS SHEET ONLY)

- A** ADDITIONAL LANES MAY BE COVERED BY A SINGLE CAMERA. TRIGGER LOOPS IN ADJACENT LANES SHOULD BE IN-LINE WITH THE UPSTREAM EDGE OF THE CAMERA FIELD OF VIEW. NOTE: VEHICLES IN CLOSER LANE MAY BE BLOCKED BY THE VEHICLES IN FARTHER LANES.
- B** ANGLE V IS CONTROLLED BY CAMERA ZOOM. SEE TOP VIEW.
- C** DISTANCE E LIMITED BY ILLUMINATOR RANGE
 $E = \sqrt{B^2 + C^2}$
- D** FOR NON-TYPICAL LAYOUTS, USE 3EGR0015 - SIDE FIRE CAMERA POSITION CALCULATOR TO POSITION CAMERA.
- E** IMAGE CAPTURE TO BE TRIGGERED BY LEADING EDGE OF LOOP SIGNAL.
- F** THE "IDENTIFICATION" VIEW CONFIGURATION PROVIDES AN ENHANCED VIEW OF THE TRACTOR CAB COMPARED TO THE REST OF THE TRUCK. THIS CONFIGURATION IS RECOMMENDED AS IT ALLOWS FOR BETTER VEHICLE IDENTIFICATION. THE "CLASSIFICATION" VIEW PROVIDES A LESS DISTORTED VIEW OF THE ENTIRE TRUCK; IDEAL FOR IDENTIFICATION OF VEHICLE CLASS.
- G** POLE TO BE POSITIONED AWAY FROM CAMERA LOCATION TO ACCOUNT FOR CAMERA LENS/POLE OFFSET.

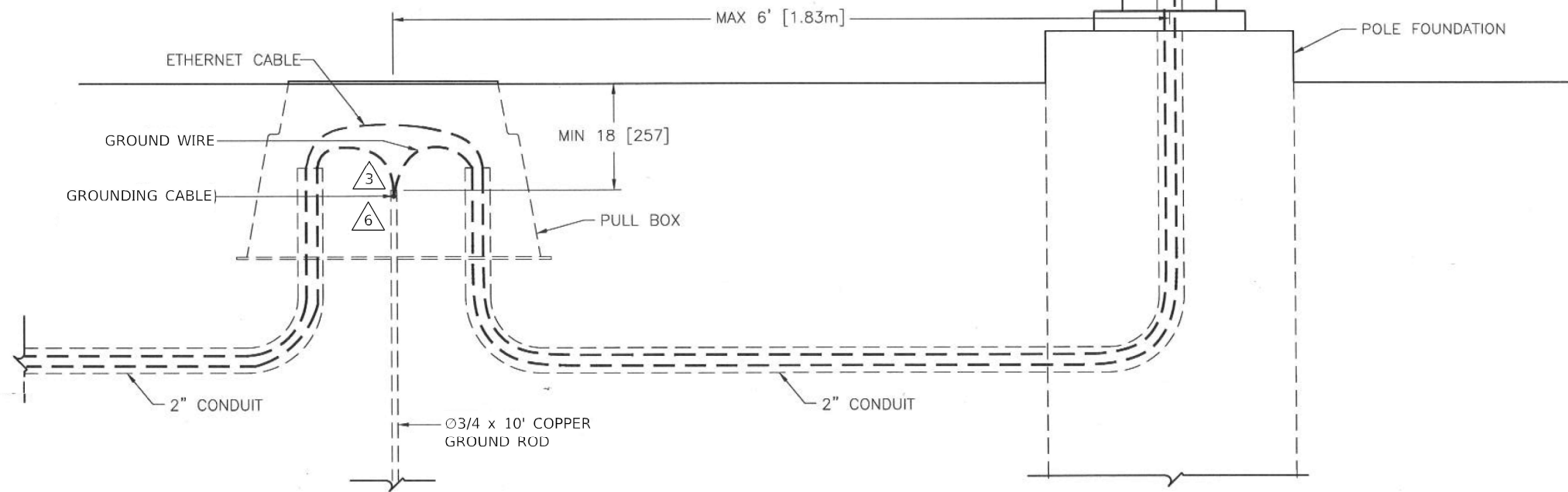
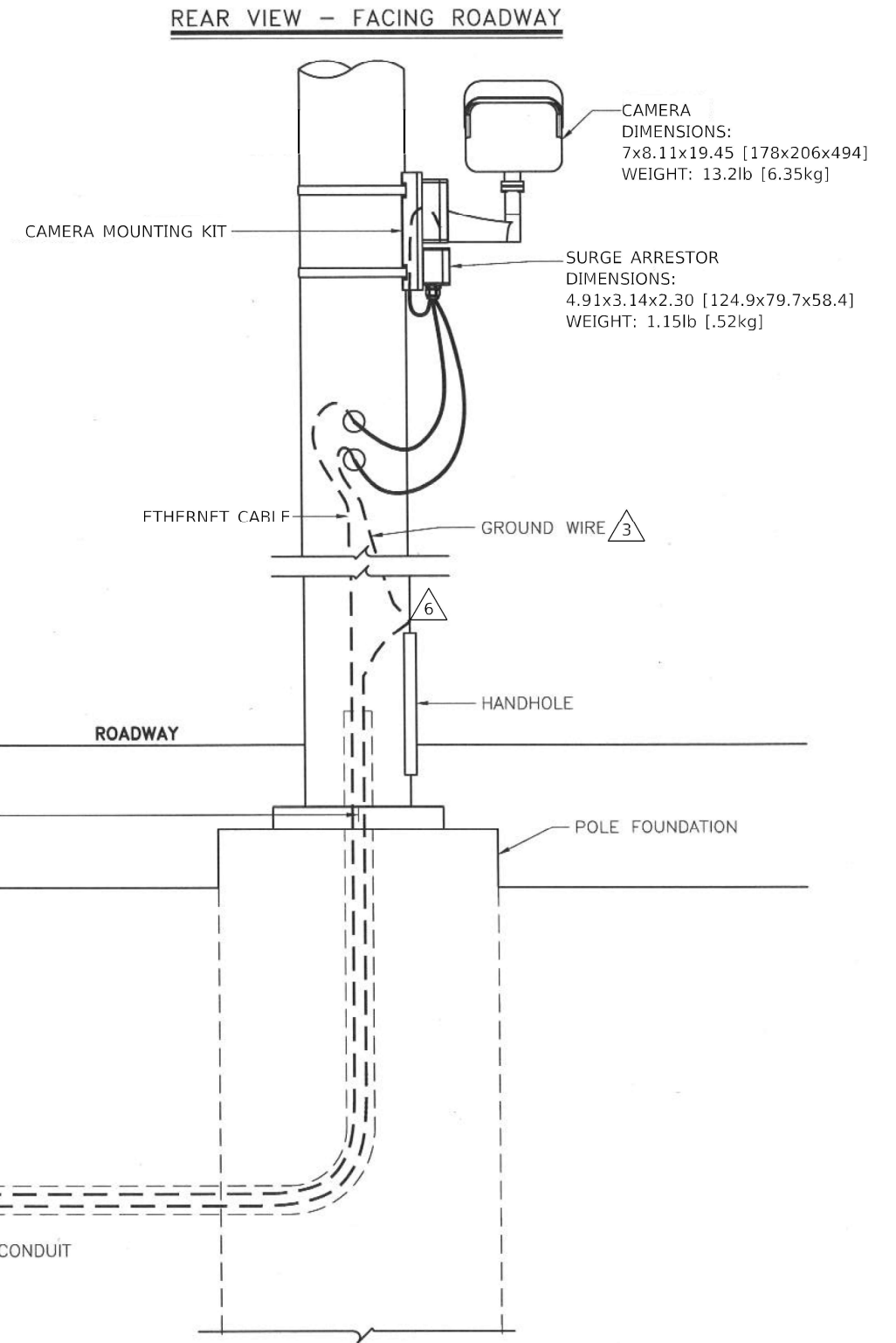
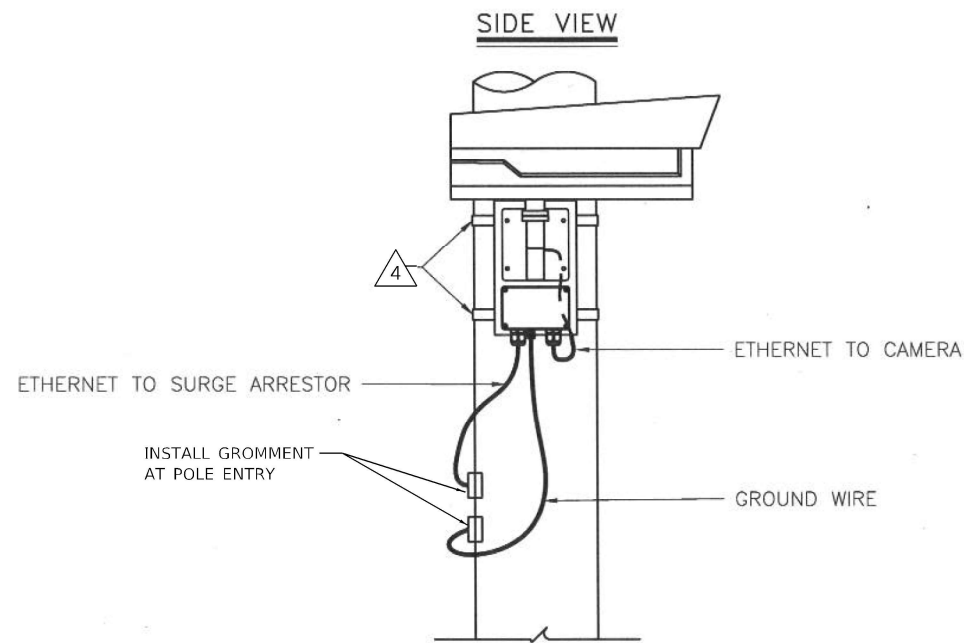
CONFIGURATION TYPE	DISTANCE				ANGLE	
	B	C	D	E	A	V
IDENTIFICATION VIEW (RECOMMENDED)	15'	15'	100'	21.2'	45°	54°
CLASSIFICATION VIEW (OPTIONAL)	30'	20'	100'	36.1'	56°	51°

SITE LAYOUT
SIDE FIRE CAMERA WITH ILLUMINATOR

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F.A.I. RTE. 39	SECTION (141-1)WIM	COUNTY OGLE	TOTAL SHEETS 31	SHEET NO. 22
			CONTRACT NO. 64R62	
ILLINOIS FED. AID PROJECT				



NOTES:

- 1 CAMERA AND BRACKET WEIGHT: 15.8lbs [7.2kg]
- 2 CONDUITS TO MEET LOCAL ELECTRIC CODE.
- 3 EQUIPMENT TO BE CONNECTED TO EARTH GROUND IN COMPLIANCE WITH NATIONAL ELECTRICAL CODE AND LOCAL STANDARDS.
- 4 BAND BRACKET POLE WITH 0.75" (20mm) STAINLESS STEEL STRAPPING.
- 5 POWER CONSUMPTION < 12.3 (TYPICAL) INCLUDING HEATER.
- 6 BOND POLE GROUND RODS TO CABINET FROUND ROD USING MINIMUM 6AWG WIRE.

MODEL: Default
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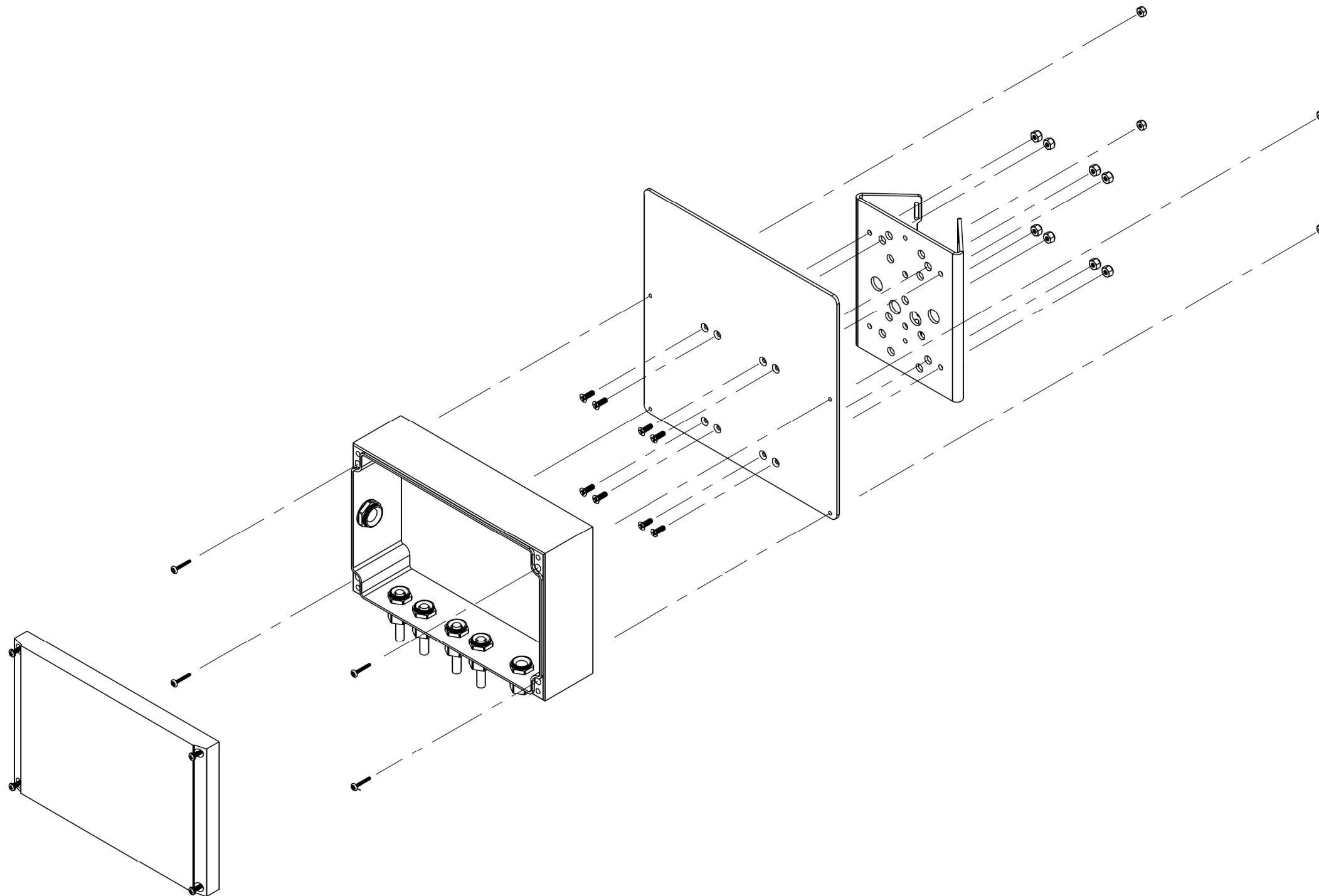
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

FAI ROUTE 39 (I-39)
 WEIGH IN MOTION DETAILS

SCALE: N.T.S. SHEET ITD-8 OF 13 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
39	(141-1)WIM	OGLE	31	23
CONTRACT NO. 64R62			ILLINOIS FED. AID PROJECT	

ILLUMINATOR POWER SUPPLY TO ADAPTER PLATE AND POLE MOUNT BRACKET



MODEL: Default
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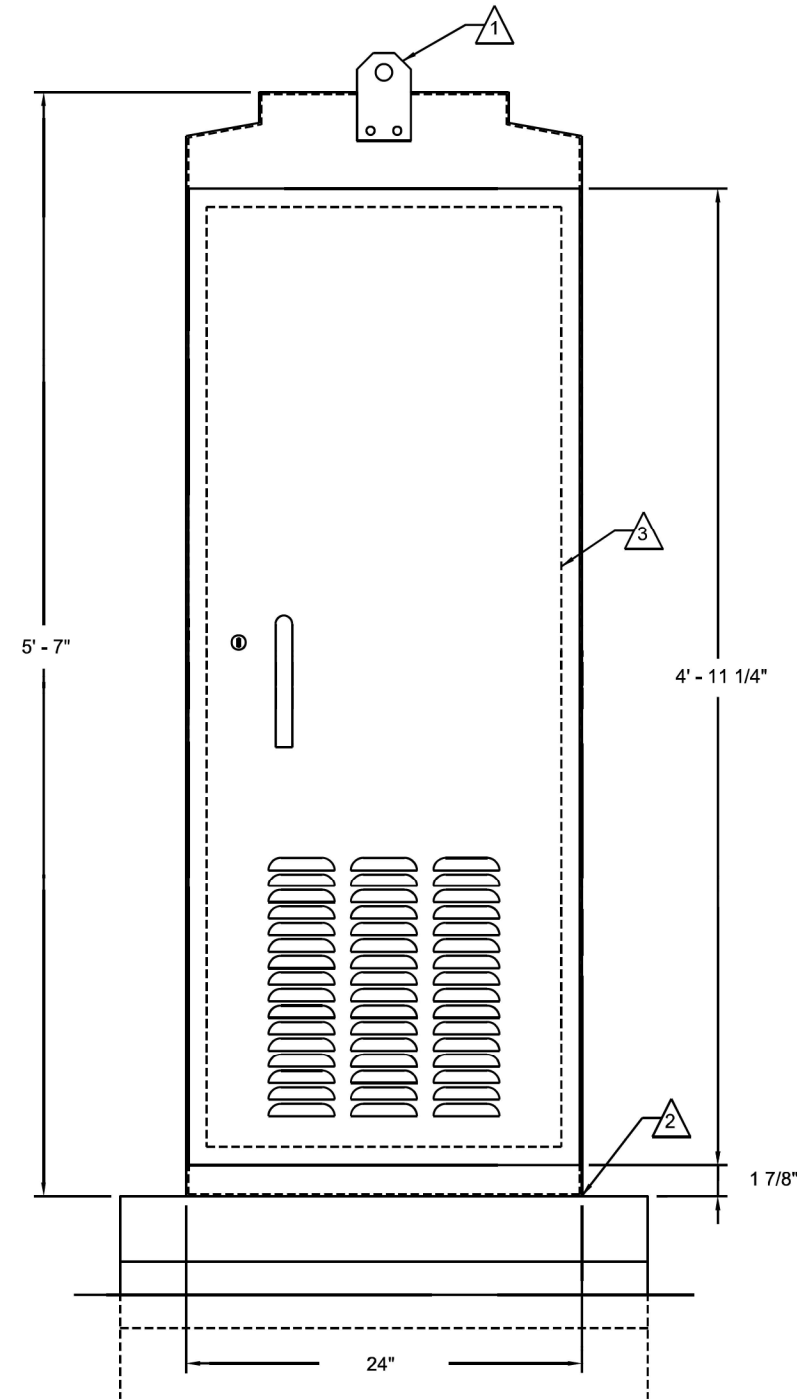
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

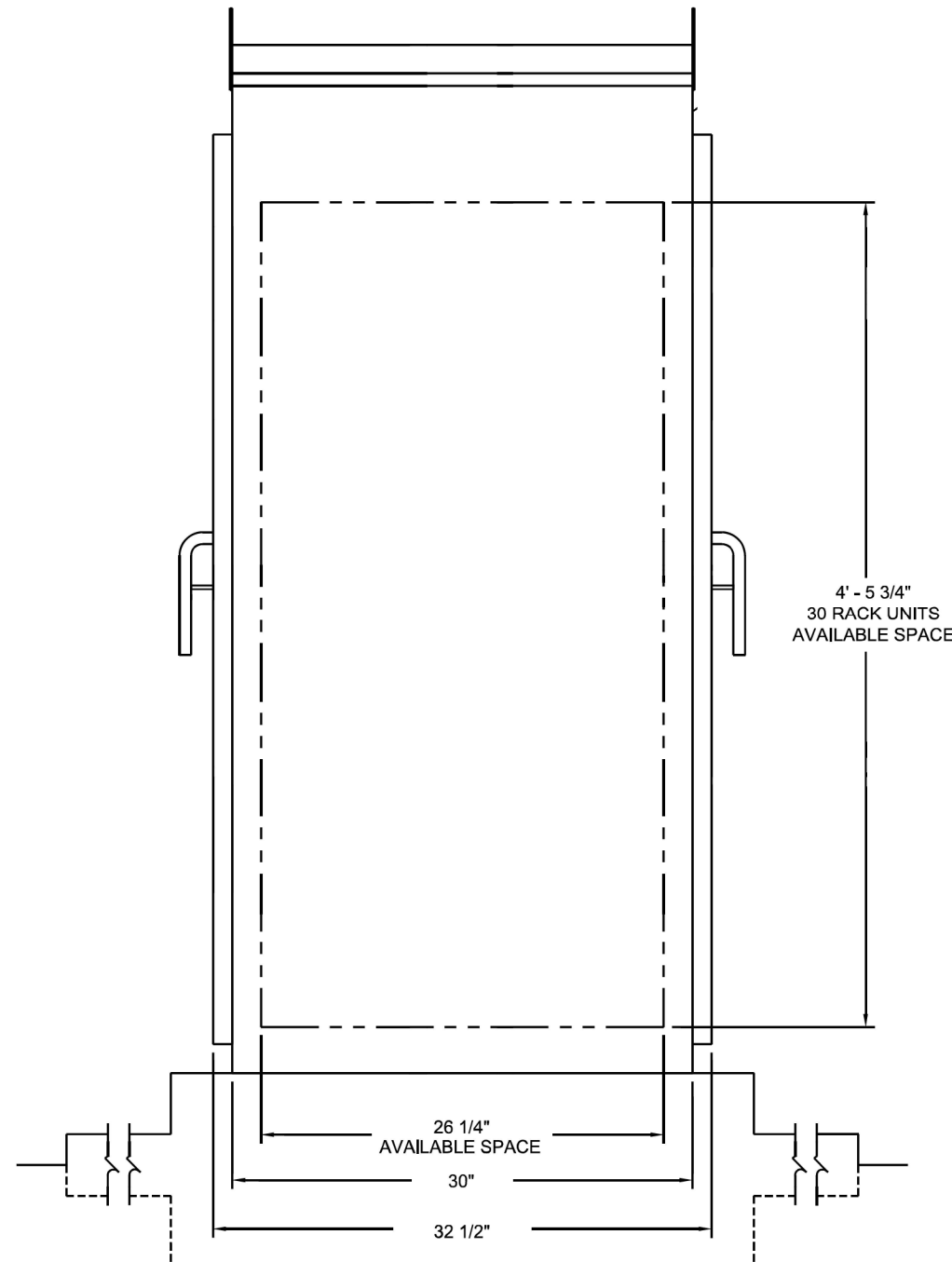
FAI ROUTE 39 (I-39) WEIGH IN MOTION DETAILS			
SCALE: N.T.S.	SHEET ITD-9	OF 13 SHEETS	STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
39	(141-1)WIM	OGLE	31	24
CONTRACT NO. 64R62				
ILLINOIS FED. AID PROJECT				

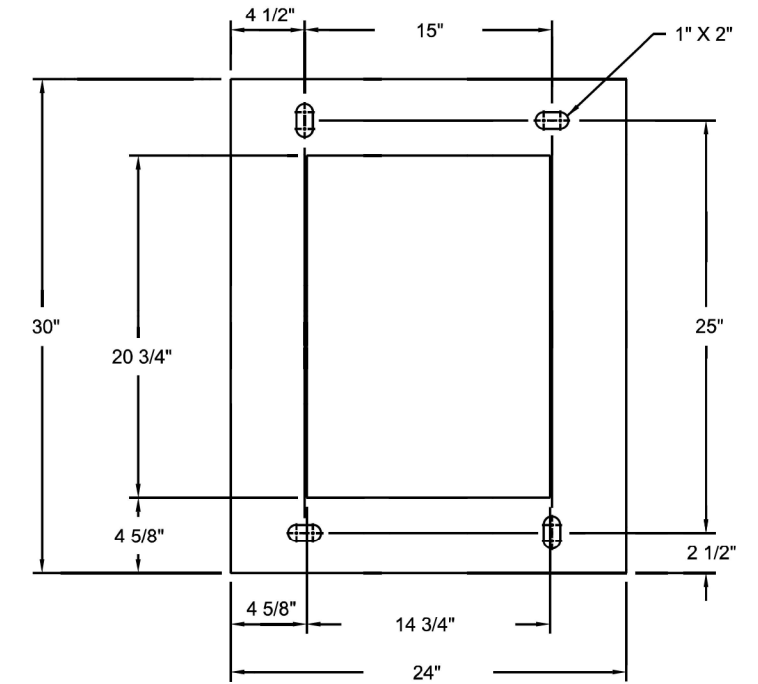
FRONT VIEW



SIDE VIEW



PAD MOUNTING PATTERN



NOTES:

- 1 LIFTING EYE. MAY BE UNBOLTED AND ROTATED 180° FOR STORAGE.
- 2 SEAL CABINET TO FOUNDATION JOINT WITH SILICONE SEALANT TO PREVENT WATER INTRUSION. LOCATE CABINET ABOVE HIGH WATER LEVEL.
- 3 REMOVABLE 19" EIA RACK.

CABINET INSTALLATION

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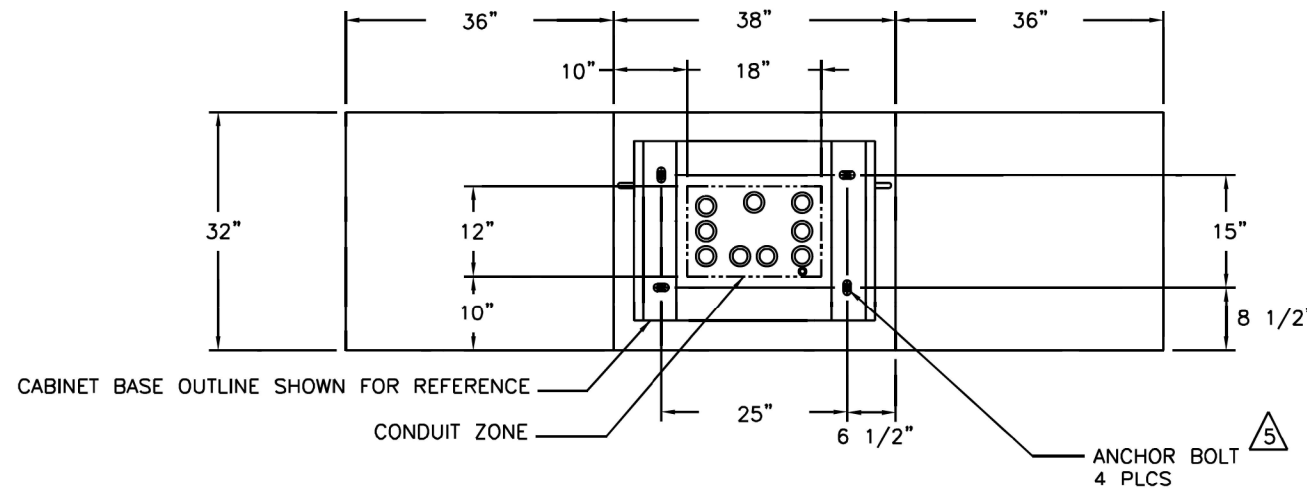
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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

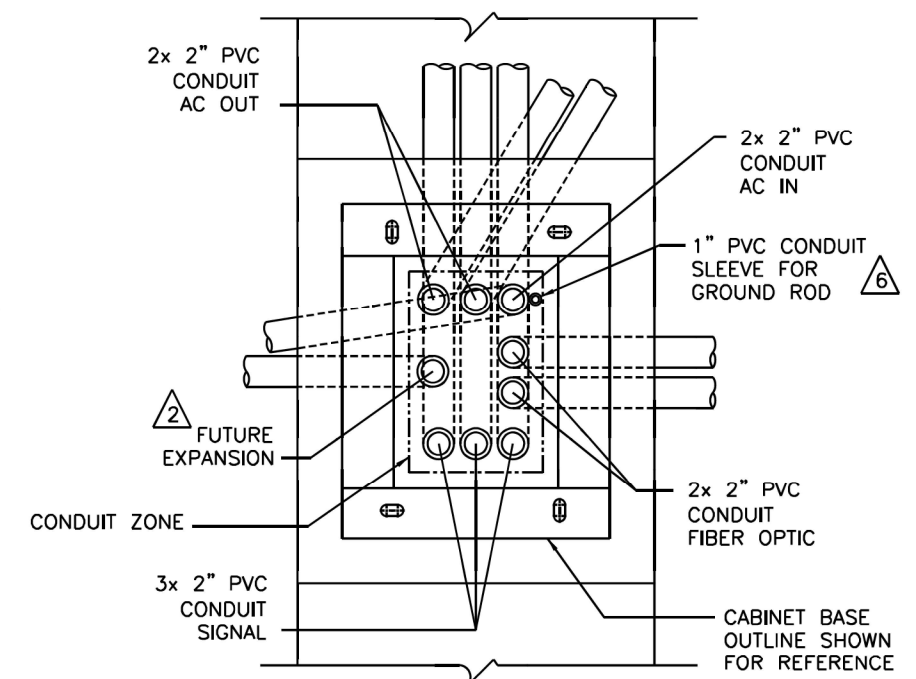
FAI ROUTE 39 (I-39)	
WEIGH IN MOTION DETAILS	
SCALE: N.T.S.	SHEET ITD-11 OF 13 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
39	(141-1)WIM	OGLE	31	26
CONTRACT NO. 64R62				
ILLINOIS FED. AID PROJECT				

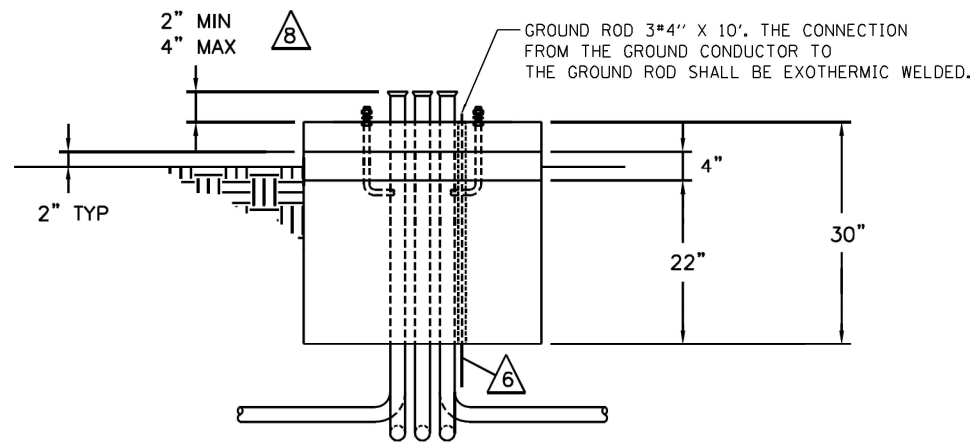
TOP VIEW - CABINET MOUNTING



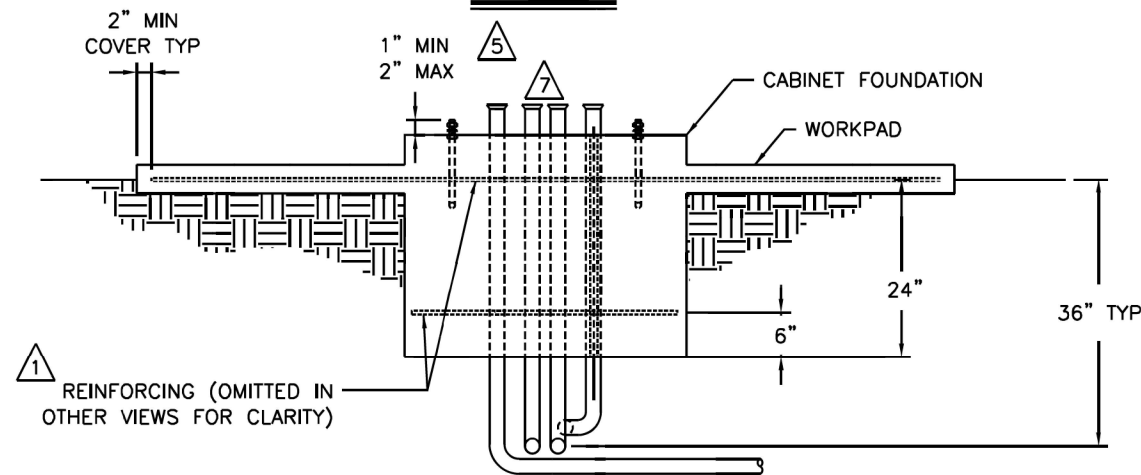
DETAIL A - MINIMUM CONDUITS



FRONT VIEW



SIDE VIEW



NOTES:

- 1 INSTALL REINFORCING MATS. #4 BAR 12" ON CENTER EACH WAY. EPOXY COAT OR GALVANIZE. REINFORCEMENTS ARE MINIMUM REQUIREMENTS AND MAY BE SUPERSEDED BY LOCAL CONSTRUCTION CODES.
- 2 SPARE CONDUIT MUST BE CAPPED, STUBBED 24" PAST FOUNDATION, AND LABELED.
- 3 ALL CONDUITS SHOWN SHALL BE FURNISHED AND INSTALLED IN FOUNDATION IN ACCORDANCE WITH LOCAL CODES. CAP IF NOT USED. ADDITIONAL CONDUITS MAY BE REQUIRED. CONDUITS SHALL EXIT FOUNDATION IN DIRECTION APPROPRIATE FOR SITE GEOMETRY.
- 4 CONCRETE SHALL HAVE COMPRESSIVE STRENGTH OF 3000 PSI MINIMUM.
- 5 CABINET ANCHORS MUST BE GALVANIZED OR STAINLESS STEEL AND MAY BE CAST IN PLACE, CHEMICAL OR EXPANSION TYPE DRILLED INTO BASE. TYPICAL SIZE IS 3/4" NC x 12" x 4".
- 6 GROUND ROD MUST BE PROVIDED TO MEET LOCAL ELECTRICAL CODE.
- 7 SEAL ALL CONDUIT ENDS WITH STEEL WOOL AND DUCT SEAL TO REDUCE RODENT OR INSECT INTRUSION AND MOISTURE. DO NOT USE PERMANENT SEALANT AS CONDUITS MAY NEED TO BE REENTERED IN THE FUTURE FOR CABLE REPLACEMENT OR ADDITIONS.

NOTES: (CONTINUED)

- 8 THE CABINET BASE CONDUIT MUST BE HIGHER THAN SURROUNDING PULL BOXES. THE HEIGHT OF CONDUITS ENDING IN THE CABINET MUST BE HIGHER THAN THE OTHER END TO PREVENT WATER ENTRY DUE TO HYDROSTATIC PRESSURE. ALL CONDUITS SHALL HAVE END BELLS INSTALLED OR NO SHARP EDGES.

CABINET FOUNDATION INSTALLATION

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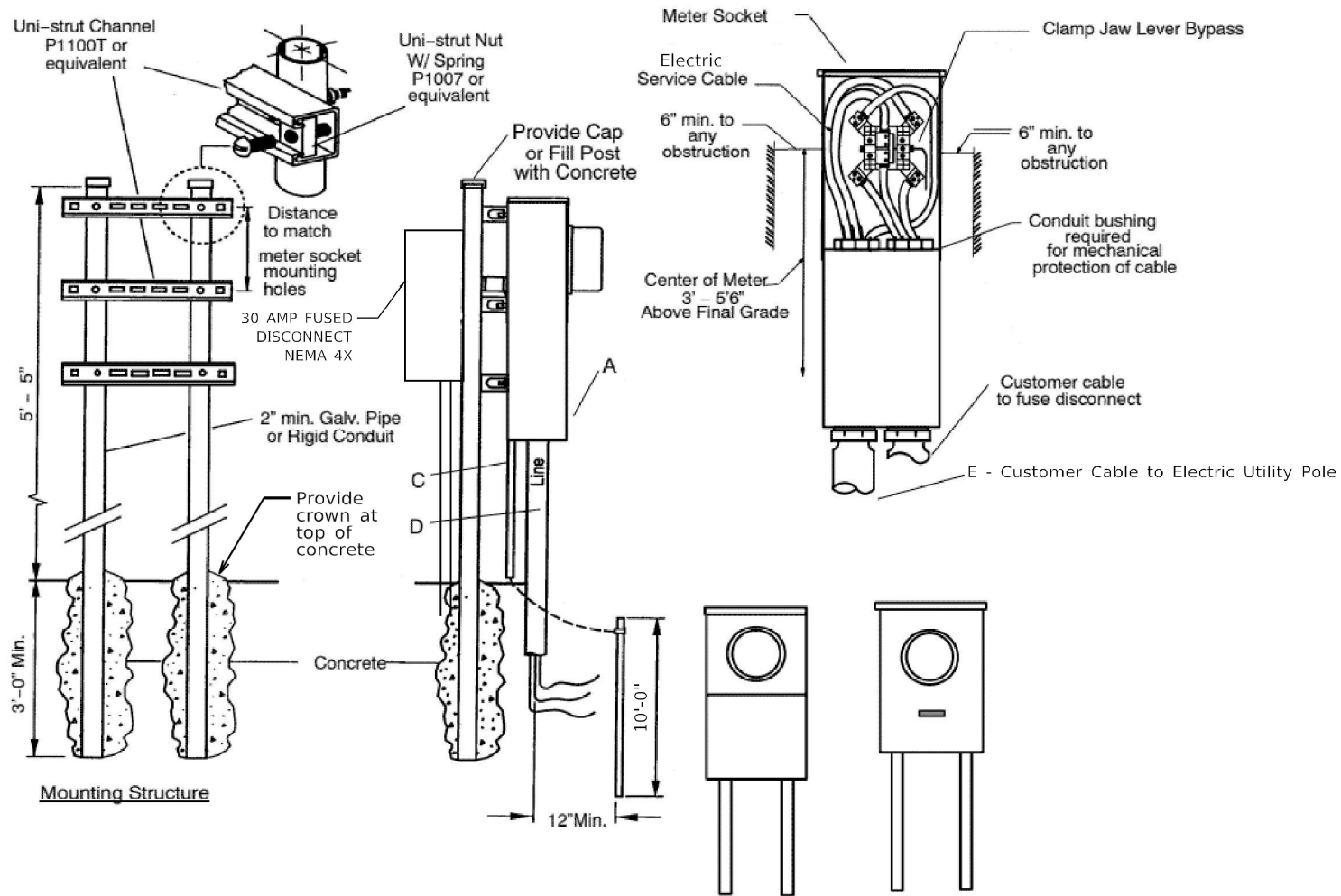
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Chicago, Illinois 60606

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	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**FAI ROUTE 39 (I-39)
WEIGH IN MOTION DETAILS**
SCALE: N.T.S. SHEET ITD-12 OF 13 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
39	(141-1)WIM	OGLE	31	27
CONTRACT NO. 64R62				
ILLINOIS FED. AID PROJECT				



GENERAL NOTES:

- THE INSTALLATION OF ALL ENTRANCE EQUIPMENT, CONDUCTORS AND CONDUIT SHALL CONFORM TO LOCAL CODES OR THE LATEST NEC REQUIREMENTS.
- ALL MATERIAL SHALL BE FURNISHED AND INSTALLED BY CONTRACTOR.
- NEC APPROVED GROUND REQUIRED.
- DIFFERENT ARRANGEMENTS OF THE SERVICE EQUIPMENT (FUSE/BREAKER BOX) MAY BE USED SIDE-BY-SIDE OR BELOW METER.
- REFER TO ELECTRIC UTILITY PROVIDER FOR METER SOCKETS OR COMBO UNITS REQUIREMENT.
- REFER TO ELECTRIC UTILITY PROVIDER FOR METER MOUNTING HEIGHT.
- WHEN AN EXPANSION COUPLING IS REQUIRED, IT SHOULD BE INSTALLED SO THAT THE OUTER SLEEVE INTO THE METER SOCKET WITH THE INNER SLEEVE POSITIONED AT THE MANUFACTURER'S MIDWAY MARK.
- COST OF FUSED NEMA 4X DISCONNECT SWITCH SHALL BE INCLUDED IN THE SERVICE TYPE A (MODIFIED) PAY ITEM.

**UNDERGROUND METER SERVICE /LOAD CENTER
METER REQUIREMENTS**

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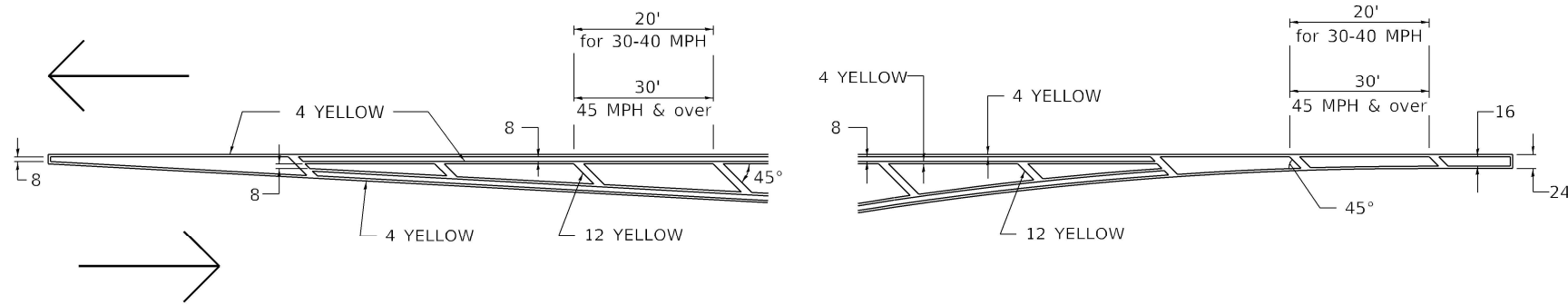
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

FAI ROUTE 39 (I-39)	
WEIGH IN MOTION DETAILS	
SCALE: N.T.S.	SHEET ITD-13 OF 13 SHEETS STA. TO STA.

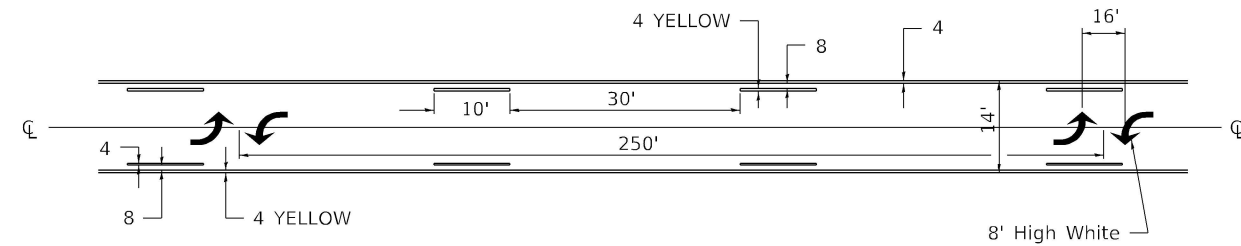
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39	(141-1)WIM	OGLE	31	28
CONTRACT NO. 64R62				
ILLINOIS FED. AID PROJECT				

TYPICAL PAVEMENT MARKINGS

TYPICAL PAVEMENT MARKING FOR FLUSH MEDIAN AT LEFT TURN LANE

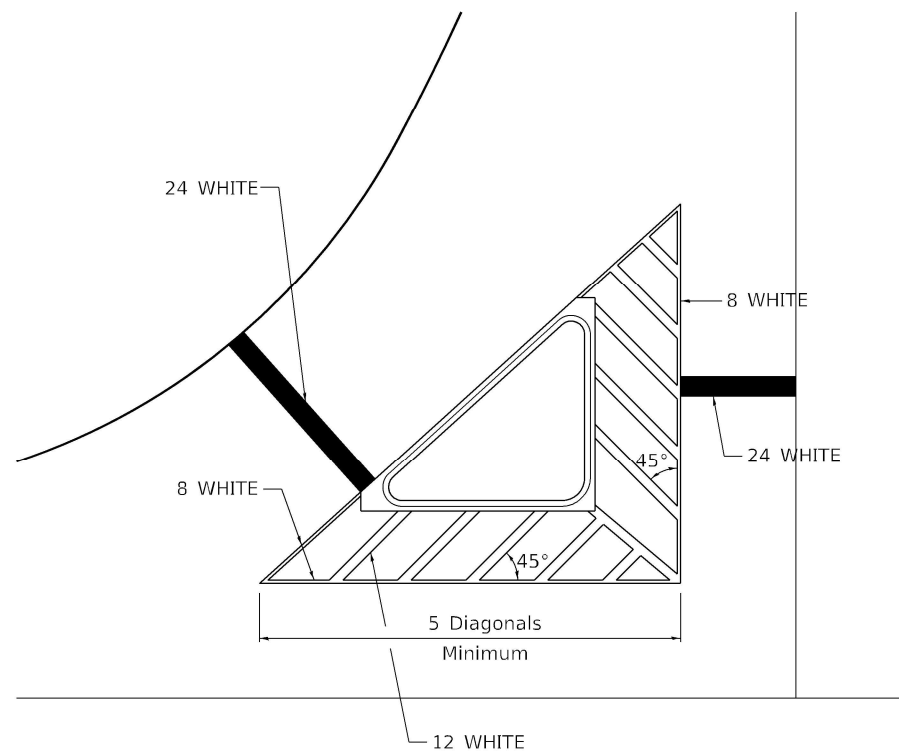


MEDIAN PAVEMENT MARKING



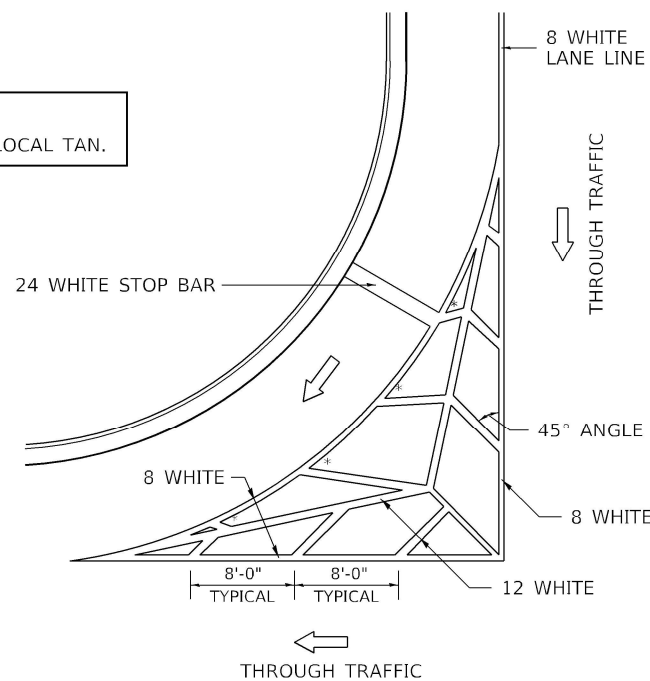
** ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

TYPICAL ISLAND OFFSET SHOULDER WIDTH



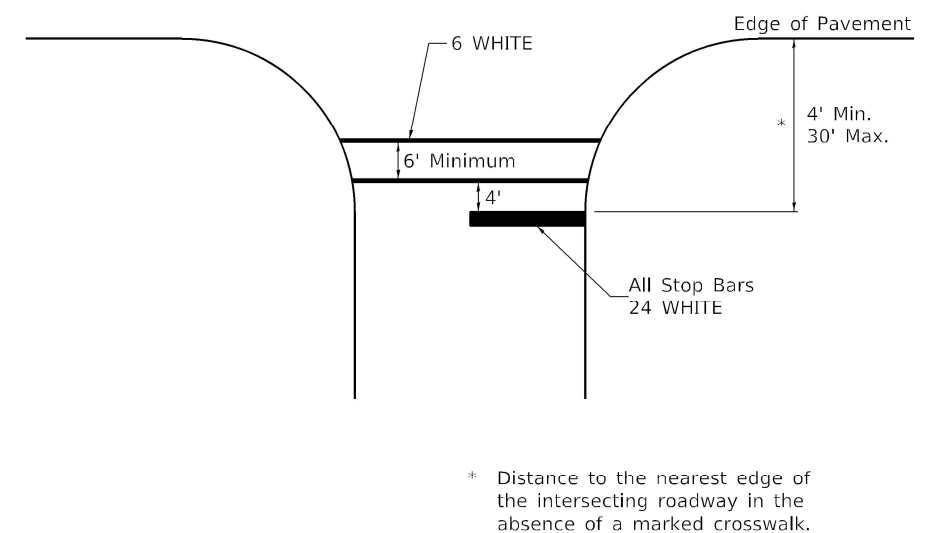
TYPICAL MARKING FOR PAINTED ISLANDS

NOTE:
* 45° TO LOCAL TAN.



STANDARD CROSSWALK MARKING

See Schedules for Locations



* Distance to the nearest edge of the intersecting roadway in the absence of a marked crosswalk.

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Chicago, Illinois 60606

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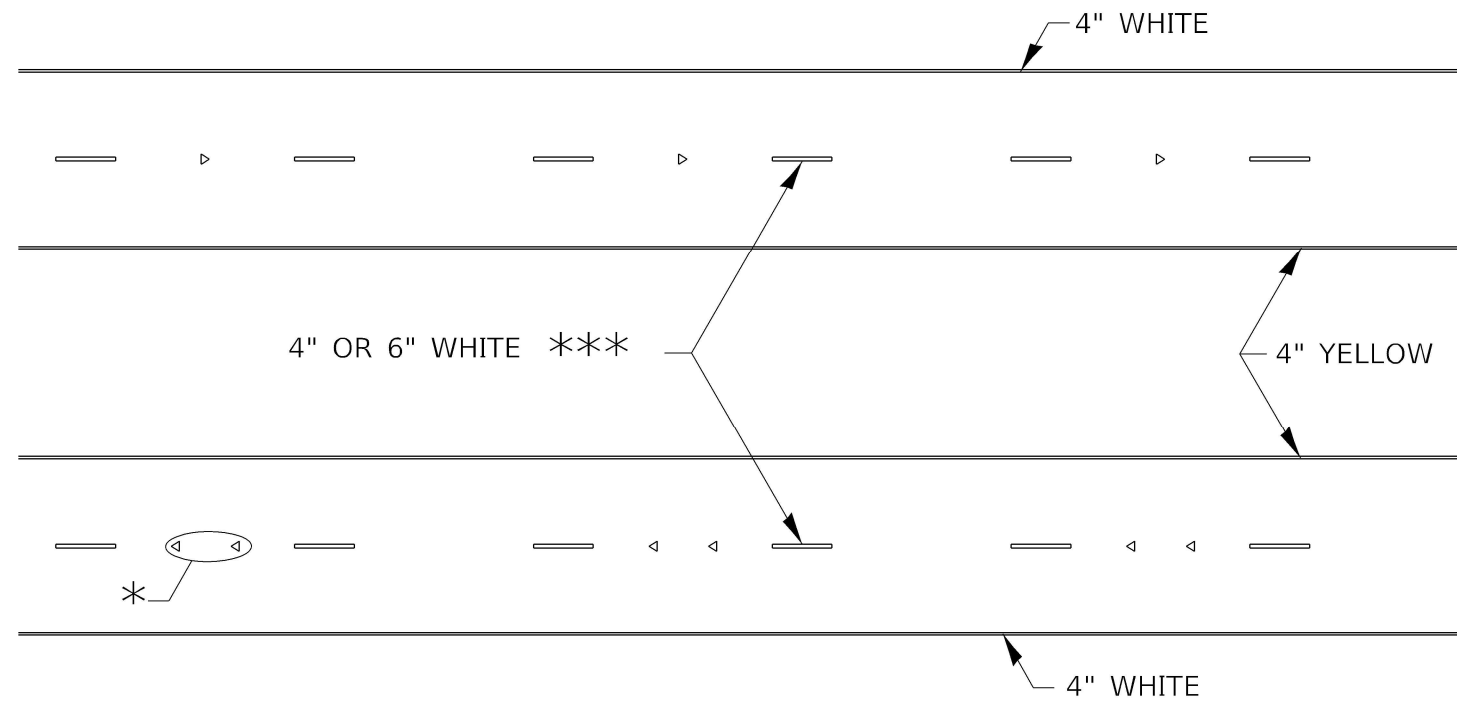
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FAI ROUTE 39 (I-39)
TYPICAL PAVEMENT MARKINGS (DS 41.1)

SCALE: N.T.S. SHEET STD-1 OF 3 SHEETS STA. TO STA.

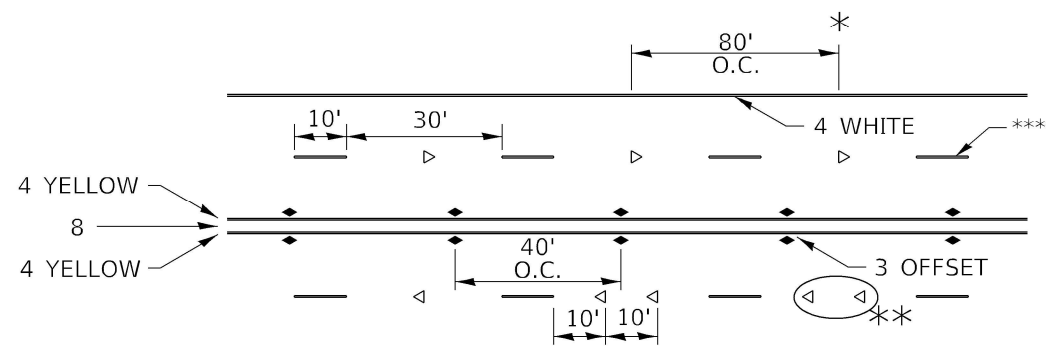
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
39	(141-1)WIM	OGLE	31	29
CONTRACT NO. 64R62				
ILLINOIS FED. AID PROJECT				

TYPICAL PAVEMENT MARKINGS



* SEE HIGHWAY STANDARD 781001 FOR SPACING DETAILS.
USE DOUBLE MARKERS WHEN ADT ≥ 20,000.

MULTI-LANE / DIVIDED



* REDUCE TO 40' O.C. ON CURVES WHERE ADVISORY SPEEDS ARE 10 MPH LOWER THAN POSTED SPEEDS.

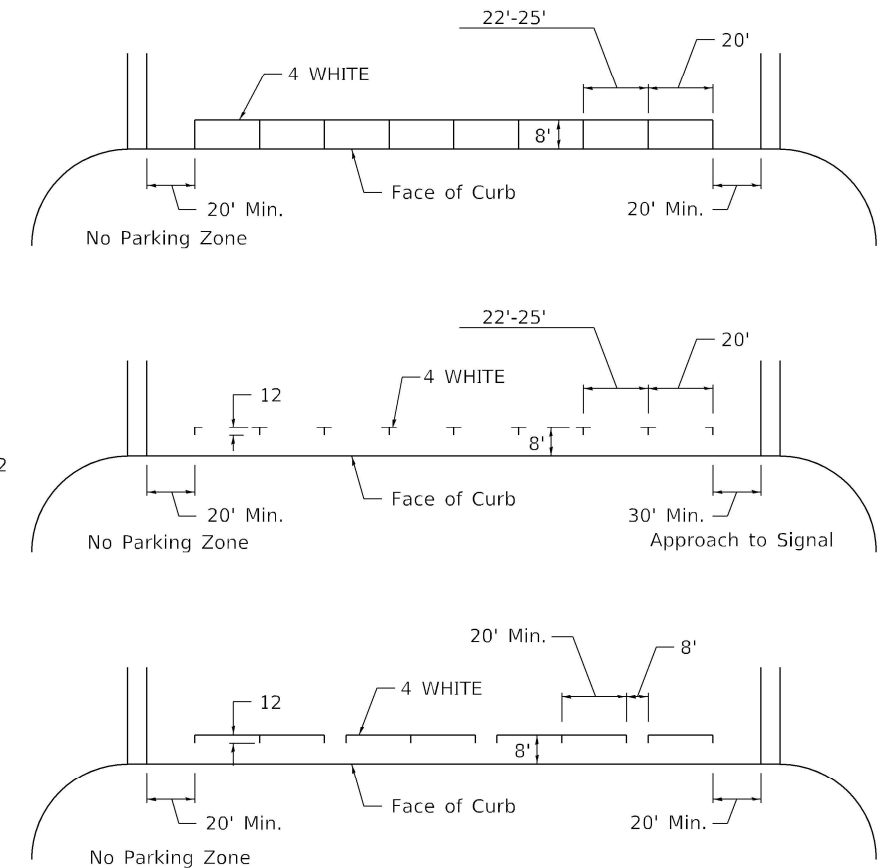
** USE DOUBLE MARKERS WHEN ADT ≥ 20,000

*** CENTERLINE SKIP DASH PAVEMENT MARKING SPEED LIMIT LESS THAN 40 MPH USE 4" LINE. SPEED LIMIT 40 MPH AND OVER USE 6" LINE.

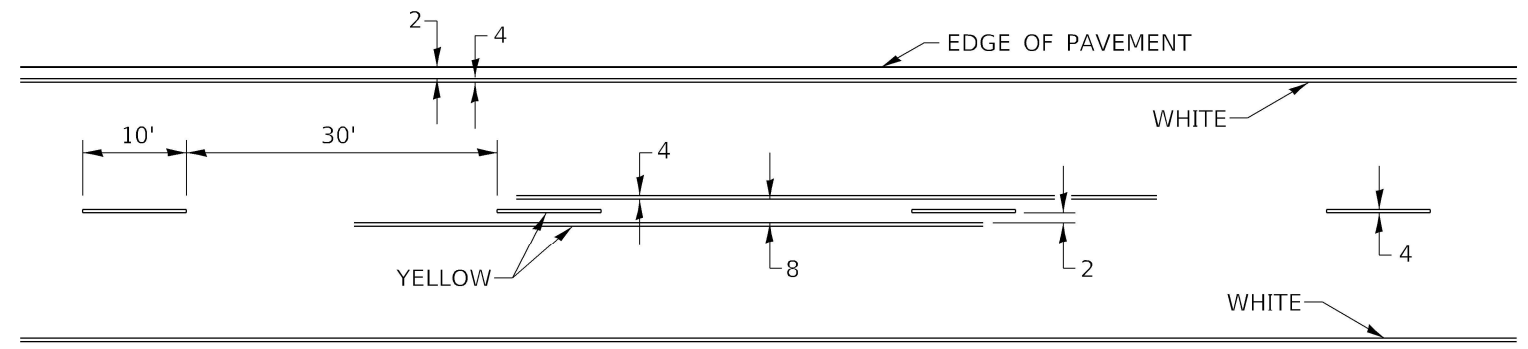
MULTI-LANE / UNDIVIDED & ONE WAY

(FOR MULTI-LANE UNDIVIDED HIGHWAYS USE THIS DETAIL NOT HIGHWAY STANDARD 781001)

TYPICAL PARKING SPACING



TYPICAL PAVEMENT MARKING FOR TWO LANE SECTION – NO PASSING ZONES



SYMBOLS

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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
39	(141-1)WIM	OGLE	31	31
CONTRACT NO. 64R62				
ILLINOIS FED. AID PROJECT				