

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

**PROPOSED  
HIGHWAY PLANS**

FAP ROUTE 331 (IL 149)  
SECTION D9 CM TRAFFIC SIGNAL 2015-1

TRAFFIC SIGNAL REPAIR  
JACKSON COUNTY

C-99-005-15

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
331	D9 CM TRAFFIC SIGNAL 2015-1	JACKSON	15	1
		ILLINOIS	CONTRACT NO. 78443	

FOR INDEX OF SHEETS, SEE SHEET NO. 3  
FOR SUMMARY OF QUANTITIES, SEE SHEET NO. 4-6

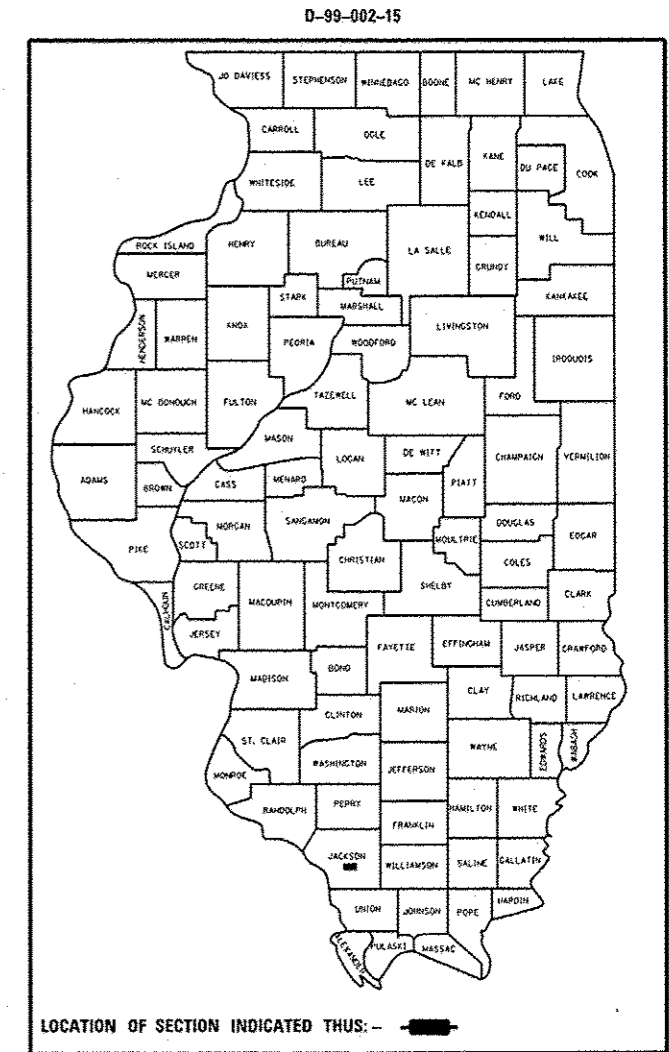
**TRAFFIC DATA**

IL 149 TRAFFIC DATA  
2013 ADT = 11,900 WITH 5.3% TRUCKS

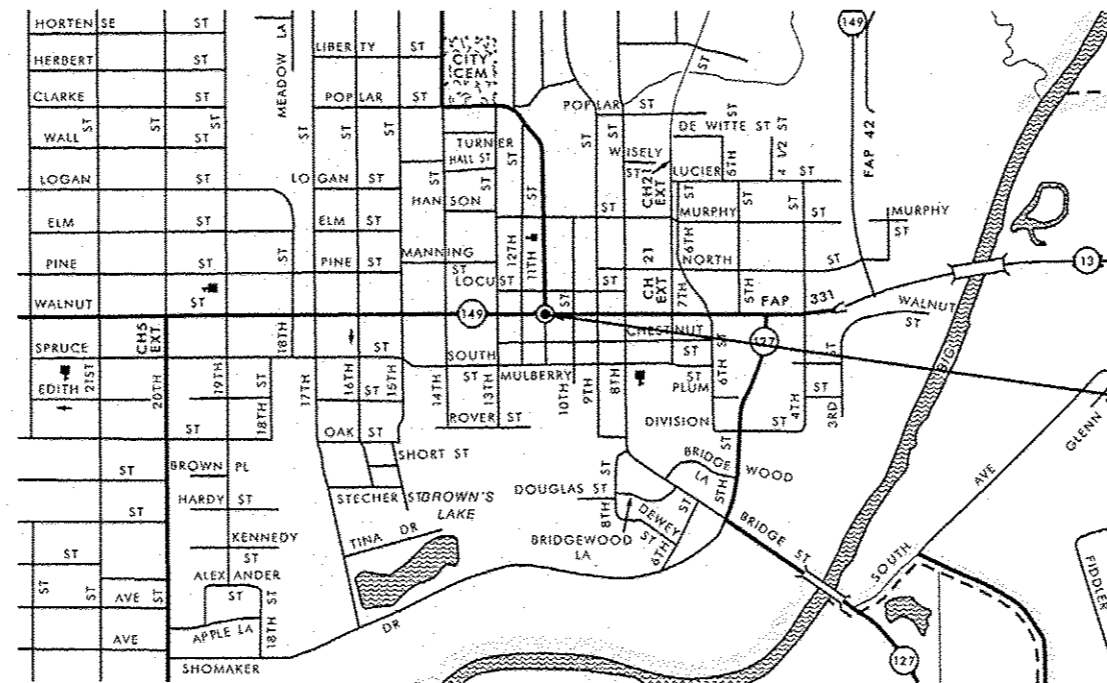
11TH STREET TRAFFIC DATA  
2012 ADT = 2,750

**TOWNSHIPS**

MURPHYSBORO

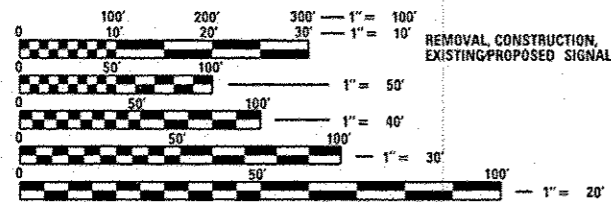


T9S



PROJECT AT INTERSECTION OF IL 149 / 11TH ST.

R2W



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 SUSAN POE  
DESIGN ENGINEER JAY KRANZ

CONTRACT NO. 78443

GROSS LENGTH = 70.0 FT. = 0.015 MILE  
NET LENGTH = 78.0 FT. = 0.015 MILE

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

SUBMITTED March 19 20 15  
Jeffrey A. Keim  
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

May 8 20 15  
John D. Baranzoli PE/PS  
ENGINEER OF DESIGN AND ENVIRONMENT

May 8 20 15  
Omer Osman PE/PS  
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

PRINTED BY THE AUTHORITY  
OF THE STATE OF ILLINOIS

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DISTRICT LAND ACQUISITION ENGINEER

Examined By: *Carrie Nelson*  
DISTRICT PROGRAM DEVELOPMENT ENGINEER

Examined By: *Kevin Kelly*  
DISTRICT OPERATIONS ENGINEER

Examined By: *K.R.*  
DISTRICT PROJECT IMPLEMENTATION ENGINEER

Examined By: \_\_\_\_\_  
DISTRICT CONSTRUCTION ENGINEER

Examined By: \_\_\_\_\_  
DISTRICT MATERIALS ENGINEER

FILE NAME *	USER NAME * kranzjc	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>SIGNATURE SHEET</b>			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
c:\pwwork\pwwork\kranzjc\0356203\7844	1-sht-pln\rdg	DRAWN -	REVISED -					331	09 CM TRAFFIC SIGNAL 2015-1	JACKSON	15	2
MODELNAME#	PLOT SCALE * 100.0000 1/16"	CHECKED -	REVISED -		SCALE:	SHEET	OF	SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT	
	PLOT DATE * 3/18/2015	DATE -	REVISED -									



# SUMMARY OF QUANTITIES

JACKSON  
FAP 331, IL 149  
100% STATE  
URBAN  
SAFETY  
0021

CODE NUMBER	ITEM DESCRIPTION	UNIT	QUANTITY
42001300	PROTECTIVE COAT	SO YD	93
42400100	PORTLAND CEMENT CONCRETE SIDEWALK 4 INCH	SO FT	833
42400800	DETECTABLE WARNINGS	SO FT	48
44000600	SIDEWALK REMOVAL	SO FT	833
67100100	MOBILIZATION	L SUM	1
70102620	TRAFFIC CONTROL AND PROTECTION, STANDARD 701501	L SUM	1
70102640	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	L SUM	1
80300100	LOCATING UNDERGROUND CABLE	FOOT	200
80400100	ELECTRIC SERVICE INSTALLATION	EACH	1
81028360	UNDERGROUND CONDUIT, PVC, 2 1/2" DIA.	FOOT	85
81028380	UNDERGROUND CONDUIT, PVC, 3 1/2" DIA.	FOOT	59
81028390	UNDERGROUND CONDUIT, PVC, 4" DIA.	FOOT	60
81028400	UNDERGROUND CONDUIT, PVC, 5" DIA.	FOOT	6
81400100	HANDHOLE	EACH	1

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# SUMMARY OF QUANTITIES - CONT

JACKSON  
FAP 331, IL 149  
100% STATE  
URBAN  
SAFETY  
0021

CODE NUMBER	ITEM DESCRIPTION	UNIT	QUANTITY
84500120	REMOVAL OF ELECTRIC SERVICE INSTALLATION	EACH	1
85700200	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET	EACH	1
86200300	UNINTERRUPTABLE POWER SUPPLY, EXTENDED	EACH	1
87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	435
87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	325
87301255	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	880
87301305	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	310
87501200	TRAFFIC SIGNAL POST, 16 FT.	EACH	1
87800100	CONCRETE FOUNDATION, TYPE A	FOOT	1
87900100	DRILL EXISTING FOUNDATION	EACH	2
87900200	DRILL EXISTING HANDHOLE	EACH	6
88040090	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	4
88040230	SIGNAL HEAD, POLYCARBONATE, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED	EACH	4
88102830	PEDESTRIAN SIGNAL HEAD, POLYCARBONATE, LED, 2-FACE, BRACKET MOUNTED	EACH	4

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# SUMMARY OF QUANTITIES - CONT

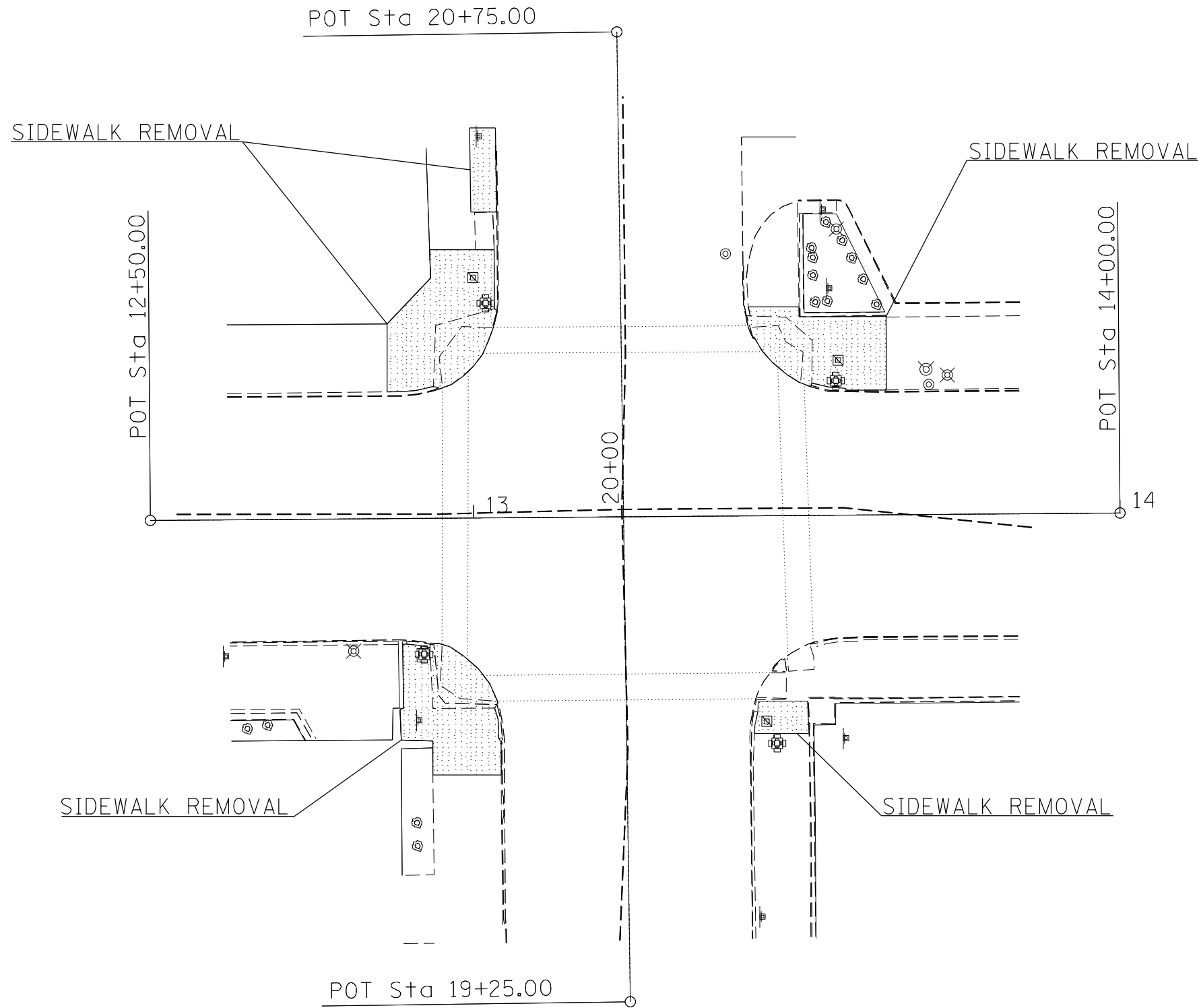
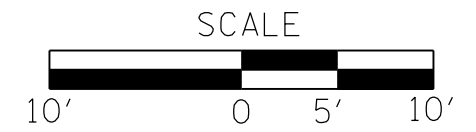
JACKSON  
 FAP 331, IL 149  
 100% STATE  
 URBAN  
 SAFETY  
 0021

CODE NUMBER	ITEM DESCRIPTION	UNIT	QUANTITY
88200100	TRAFFIC SIGNAL BACKPLATE	EACH	4
88600100	DETECTOR LOOP, TYPE 1	FOOT	130
88800100	PEDESTRIAN PUSH-BUTTON	EACH	4
89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
89502385	REMOVE EXISTING CONCRETE FOUNDATION	EACH	1
X8850106	INDUCTIVE LOOP DETECTOR, RACK MOUNTED	EACH	1

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## SIDEWALK SCHEDULE

LOCATION: STATION TO STATION	PORTLAND CEMENT CONCRETE SIDEWALK 4 INCH	DETECTABLE WARNINGS	SIDEWALK REMOVAL	PROTECTIVE COAT
	SQ FT	SQ FT	SQ FT	SQ YD
<b>IL149 / 11TH ST</b>				
<b>NW QUAD</b>				
STA 20+47.4 TO STA 20+60.5 (11TH ST)	52.0		52.0	5.8
STA 12+86.8 TO STA 13+03.3	278.2	16	278.2	30.9
<b>NE QUAD</b>				
STA 13+42.7 TO STA 13+64.	214.0	16	214.0	23.8
<b>SW QUAD</b>				
STA 12+89. TO STA 13+04.	248.7	16	248.7	28.0
<b>SE QUAD</b>				
STA 13+43.8 TO STA 13+49.8	40.1		40.1	4.5
<b>PROJECT TOTAL:</b>				
	<b>833.0</b>	<b>48.0</b>	<b>833.0</b>	<b>93.0</b>



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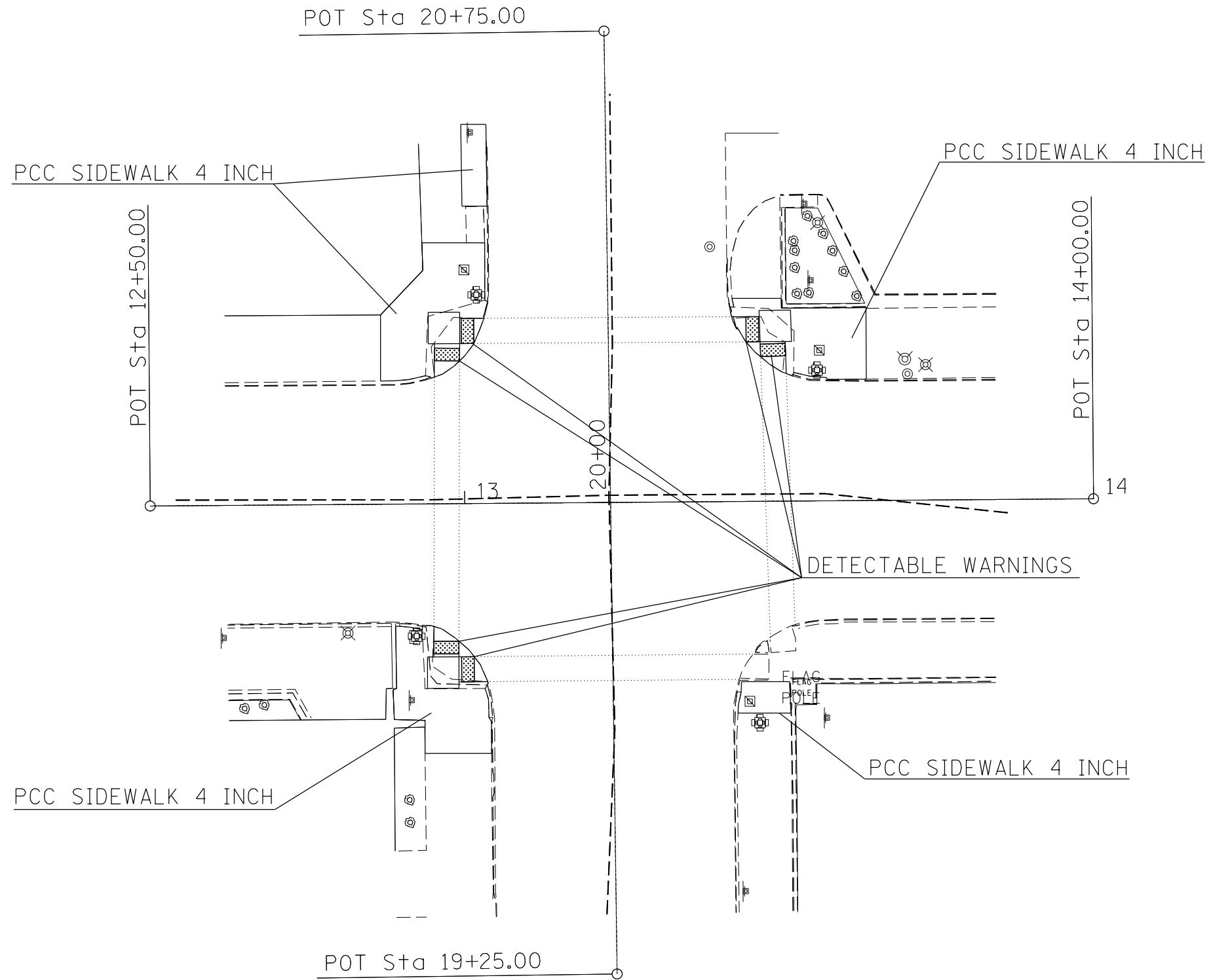
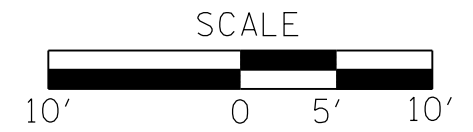
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**REMOVAL  
IL 149 /11TH ST**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
331	D9 CM TRAFFIC SIGNALS 2015-1	JACKSON	15	8
ILLINOIS FED. AID PROJECT			<b>CONTRACT NO. 78443</b>	





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	PLOT DATE = 3/20/2015	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**CONSTRUCTION  
IL 149 /11TH ST**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
331	D9 CM TRAFFIC SIGNALS 2015-1	JACKSON	15	9
			CONTRACT NO. 78443	
ILLINOIS FED. AID PROJECT				



NOT TO SCALE

STA. 20+41.7 (11TH ST)  
29.4' LT  
MATCH EXIST. ELEV. 418.92

STA. 20+41.6 (11TH ST)  
19.4' LT  
MATCH EXIST. ELEV. 418.45

STA. 12+99.4  
30.5' LT  
ELEV. 418.89

STA. 12+99.4  
29.5' LT  
ELEV. 418.87

STA. 12+94.4  
30.5' LT  
ELEV. 418.99

STA. 13+01.7  
29.5' LT  
ELEV. 418.52

STA. 12+86.8 30.1' LT  
MATCH EXIST. ELEV. 419.03

STA. 13+03.3  
29.5' LT  
ELEV. 418.49

STA. 12+94.4  
25.5' LT  
ELEV. 418.92

STA. 13+01.7  
25.5' LT  
ELEV. 418.57

STA. 12+95.4  
25.5' LT  
ELEV. 418.90

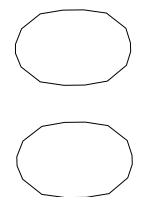
STA. 12+99.4  
25.5' LT  
ELEV. 418.82

STA. 12+86.8 19.6' LT  
MATCH EXIST. ELEV. 418.69

STA. 12+99.4  
22.7' LT  
ELEV. 418.59

STA. 12+95.3  
20.2' LT  
ELEV. 418.62

STA. 12+95.4  
22.8' LT  
ELEV. 418.67



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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

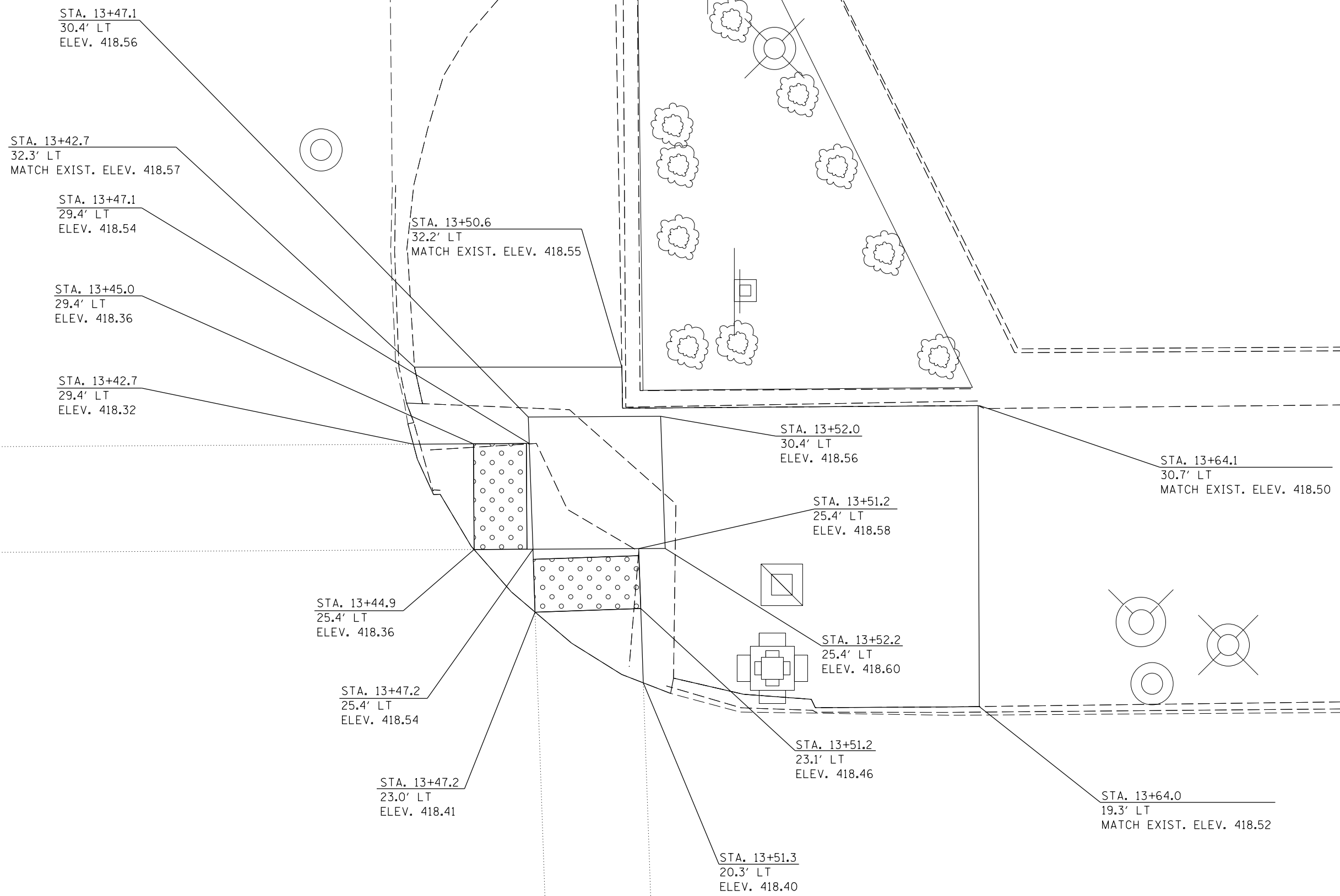
SIDEWALK RAMP DETAILS  
NW QUAD

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
331	D9 CM TRAFFIC SIGNAL 2015-1	JACKSON	15	10
ILLINOIS FED. AID PROJECT			CONTRACT NO. 78443	



NOT TO SCALE



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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

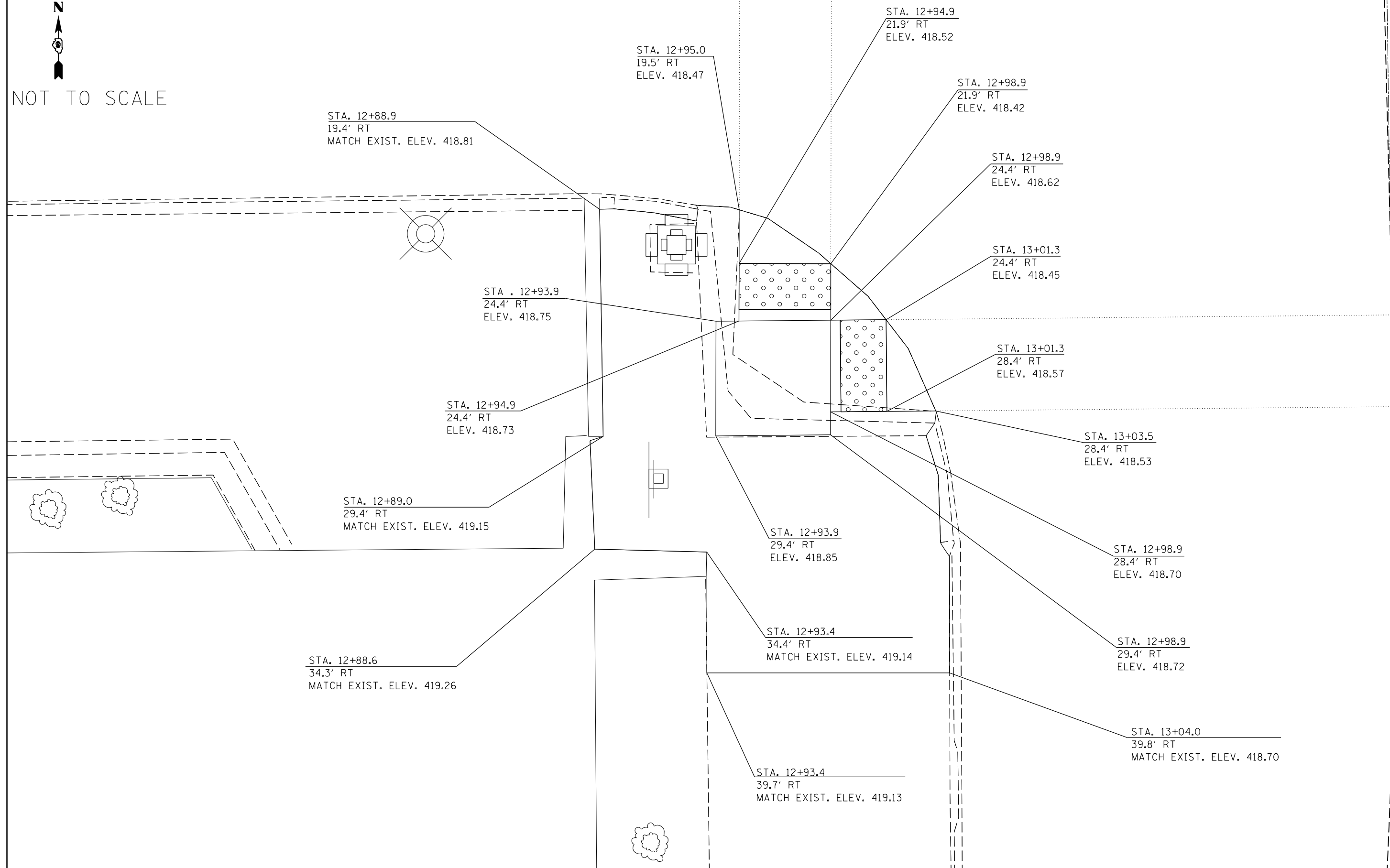
**SIDEWALK RAMP DETAILS  
NE QUAD**

SCALE:      SHEET      OF      SHEETS      STA.      TO      STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
331	D9 CM TRAFFIC SIGNAL 2015-I	JACKSON	15	11
ILLINOIS FED. AID PROJECT			CONTRACT NO. 78443	



NOT TO SCALE



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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SIDEWALK RAMP DETAILS  
SW QUAD**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
331	D9 CM TRAFFIC SIGNAL 2015-1	JACKSON	15	12
ILLINOIS FED. AID PROJECT			CONTRACT NO. 78443	



NOT TO SCALE

STA. 13+43.8 28.6' RT  
MATCH EXIST. ELEV. 418.73

STA. 13+43.2 33.6' RT  
MATCH EXIST. ELEV. 418.72

STA. 13+51.5 28.7' RT  
MATCH EXIST. ELEV. 418.90

STA. 13+51.6 33.7' RT  
MATCH EXIST. ELEV. 418.89

NOTE:  
EXISTING SIDEWALK RAMPS TO BE LEFT IN PLACE

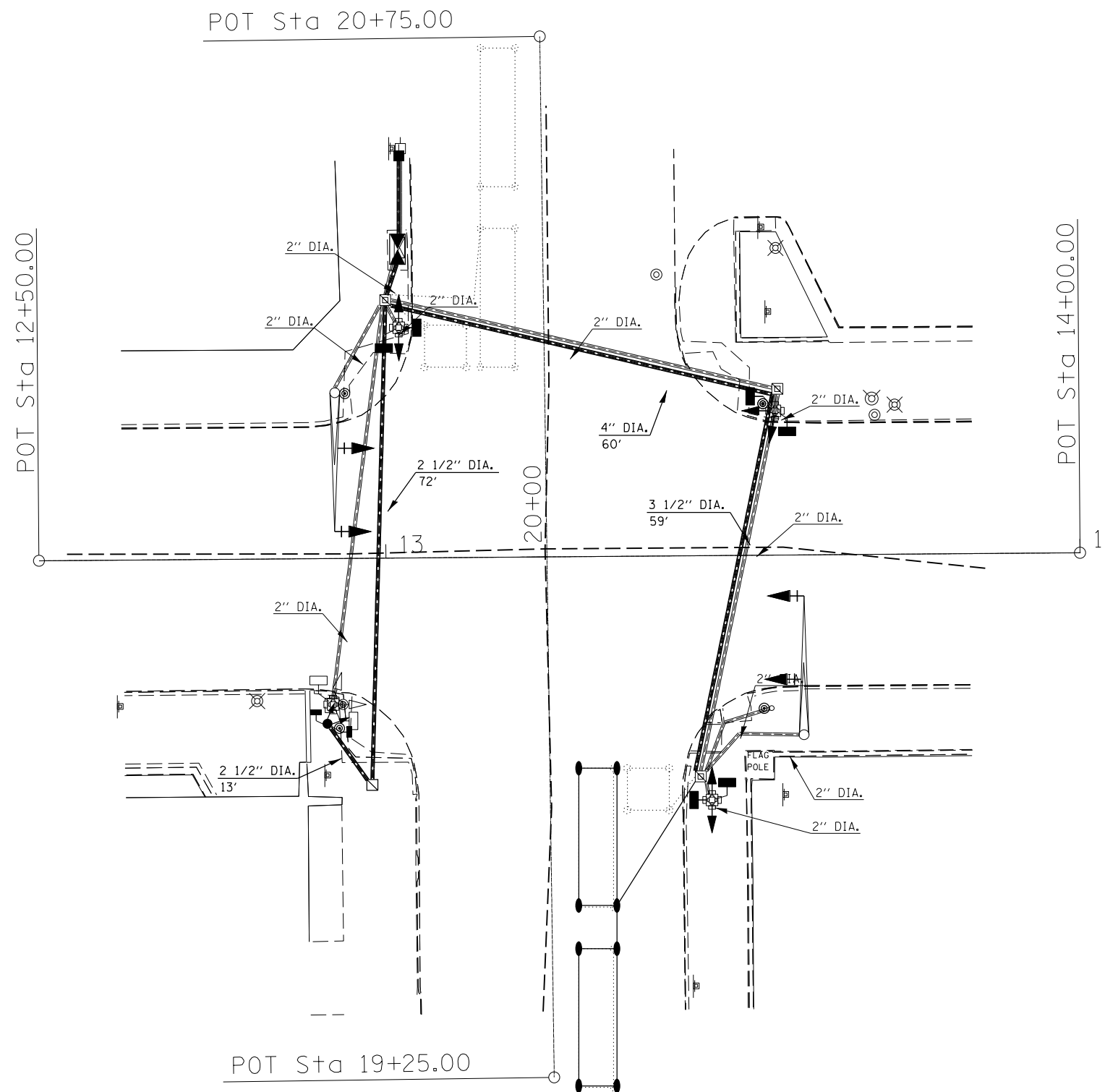
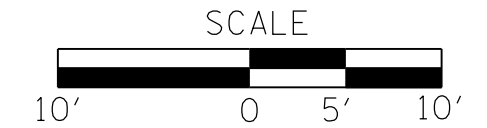
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\$MODELNAME*	PLOT DATE = 3/20/2015	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SIDEWALK RAMP DETAILS  
SE QUAD**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
331	D9 CM TRAFFIC SIGNAL 2015-1	JACKSON	15	13
ILLINOIS FED. AID PROJECT			CONTRACT NO. 78443	



- LEGEND
- PROPOSED TRAFFIC SIGNAL CONTROLLER
  - PROPOSED UNDERGROUND CONDUIT, PVC
  - PROPOSED HANDHOLE
  - PROPOSED PEDESTRIAN PUSH BUTTON
  - PROPOSED PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED
  - TRAFFIC SIGNAL POLE 16'
  - PROPOSED BRACKET MOUNTED FACEPLATE
  - PROPOSED MAST ARM MOUNTED FACEPLATE
  - PROPOSED 6' X 20' DETECTOR LOOP WITH 2" CORE DRILLED CORNERS.
  - EXISTING MAST ARM
  - EXISTING SIGNAL POLE
  - EXISTING BRACKET MOUNTED FACEPLATE
  - EXISTING MAST ARM MOUNTED FACEPLATE
  - EXISTING TRAFFIC SIGNAL CONTROLLER
  - EXISTING HANDHOLE
  - EXISTING CONDUIT
  - EXISTING 5' X 20' DETECTOR LOOP
  - EXISTING 6' X 6' DETECTOR LOOP
  - EXISTING DETECTOR LOOP LINE
  - EXISTING PEDESTRIAN PUSH BUTTON
  - EXISTING PEDESTRIAN HEAD
  - EXISTING SERVICE INSTALL

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\$MODELNAME\$	PLOT DATE = 3/20/2015	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC SIGNAL PLAN (IL 149 /11TH STREET)**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
331	D9 CM TRAFFIC SIGNALS 2015-1	JACKSON	15	14
CONTRACT NO. 78443				
ILLINOIS FED. AID PROJECT				

NOT TO SCALE
















**NOTES**

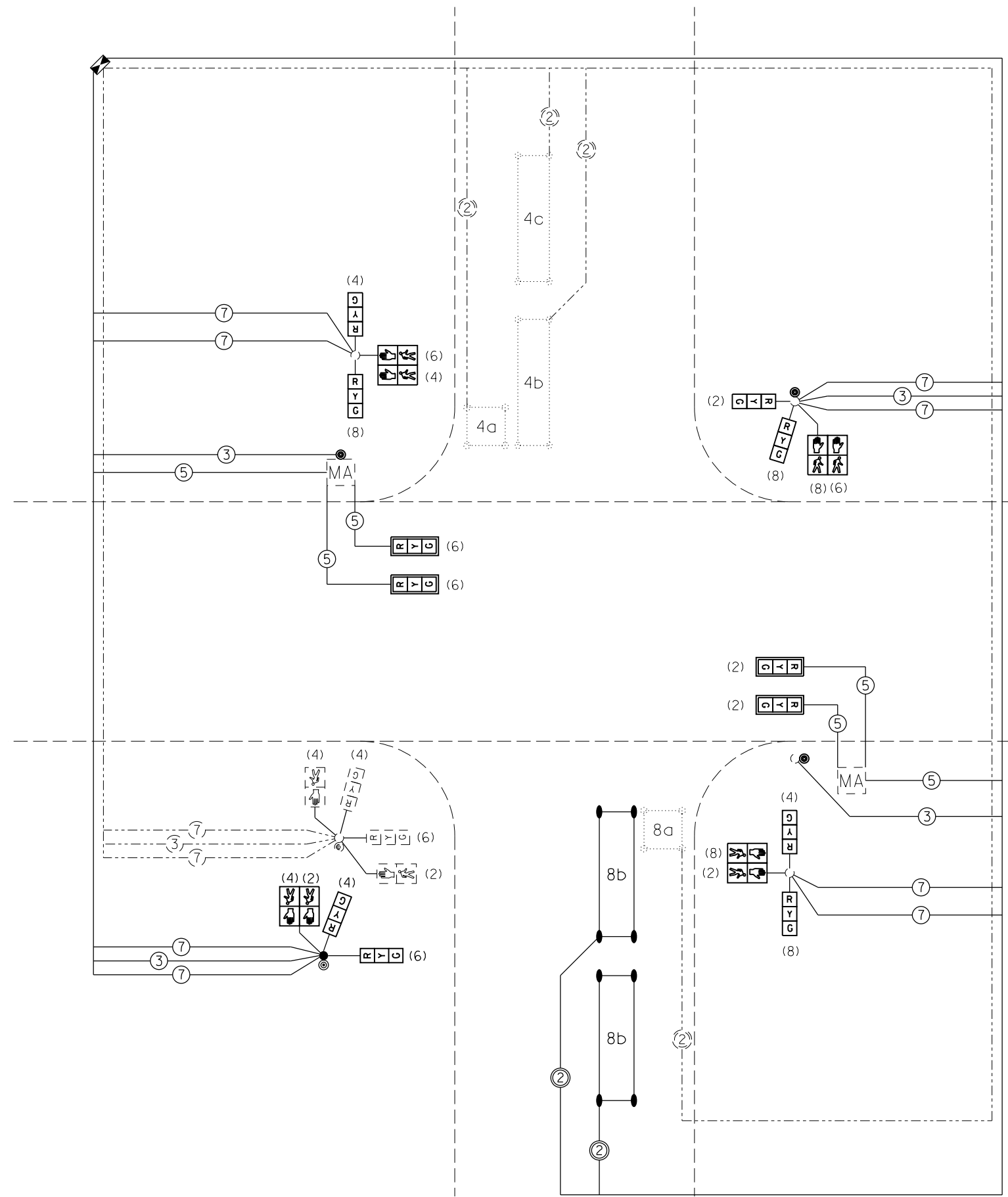
ALL CABLES SHALL BE A.W.G. #14 UNLESS OTHERWISE NOTED.

ELECTRIC CABLE DENOTED AS #10, 3/C BEING INSTALLED TO THE COMBINATION MAST ARM POLES SHALL NOT GO THROUGH THE TERMINAL BLOCK BUT SHOULD BE SPLICED IN POLE. SEE STEEL COMB. MAST ARM ASSEMBLY AND POLE DETAIL.

PROPOSED 2/C ELECTRIC CABLE SHOWN IN CABLE DIAGRAM ARE PAID FOR IN FEET AS ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 (1 PAIR).

**LEGEND**

-  EXIST. PEDESTRIAN PUSH BUTTON
-  EXIST. PEDESTRIAN SIGNAL HEAD
-  EXIST. MAST ARM
-  PROP. TRAFFIC SIGNAL CONTROLLER CABINET
-  PROP. SIGNAL POLE
-  PROP. PEDESTRIAN PUSH BUTTON
-  INDICATES 2/C TWISTED, SHIELDED CABLE IN CONDUIT
-  NUMBER IN CIRCLE INDICATES NUMBER OF CONDUCTORS IN THAT CABLE
-  NUMBER IN PARENTHESIS INDICATES PHASE
-  INDICATES 6' X 6' DETECTOR LOOP WITH 2" CORE DRILLED CORNERS. NUMBER INDICATES PHASE, LOWER CASE LETTER INDICATES AMPLIFIER.
-  INDICATES 5' X 20' DETECTOR LOOP WITH 2" CORE DRILLED CORNERS. NUMBER INDICATES PHASE, LOWER CASE LETTER INDICATES AMPLIFIER.
-  PEDESTRIAN SIGNAL HEAD, POLYCARBONATE, LED, 2 FACE, BRACKET MOUNTED
-  12" TRAFFIC SIGNAL SECTION. LETTER INDICATES COLOR.



FILE NAME =	USER NAME = \$USER\$	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>WIRING DIAGRAM (IL 149 /11TH STREET)</b>			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
et:\pw\work\p\dot\kranz\j\0356203\78443-sht-pln.dgn		DRAWN -	REVISED -		331	09 CM TRAFFIC SIGNALS 2015-1	JACKSON	15	15			
\$MODELNAME\$	PLOT SCALE = 20.0000' / in.	CHECKED -	REVISED -		CONTRACT NO. 78443							
	PLOT DATE = 3/20/2015	DATE -	REVISED -		ILLINOIS FED. AID PROJECT							
					SCALE:	SHEET	OF	SHEETS	STA.	TO	STA.	