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 PROJECT: 74694-ADS-11th.stn
 OFFICE: IDT
 DATE: 10/15/2019

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	DRAWN -	REVISED -
PLOT SCALE = 20.0000' / in.	CHECKED -	REVISED -
PLOT DATE = 10/15/2019	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION




ADA PLAN SHEET
STA. 544 + 00 11TH STREET - INTERSECTION

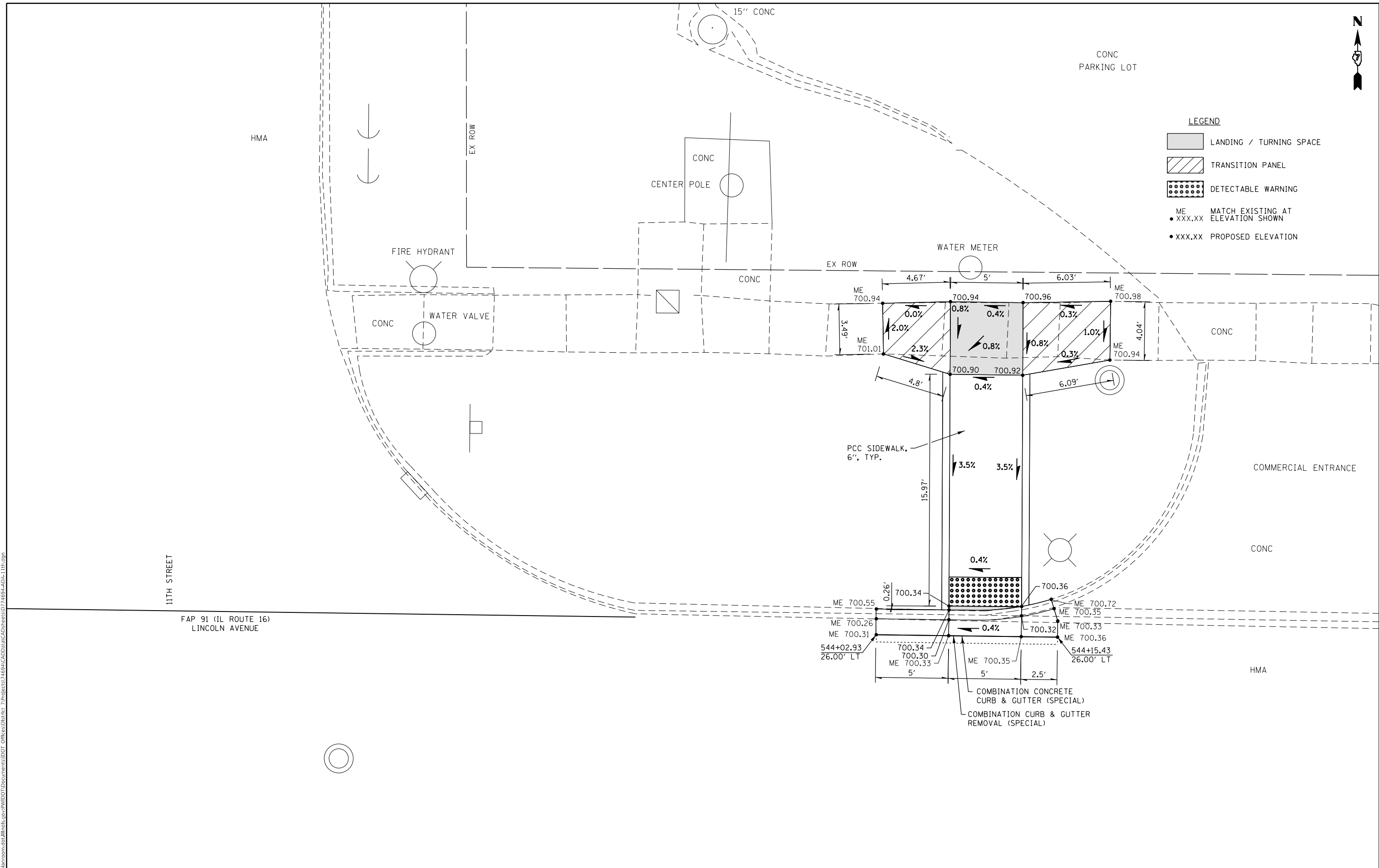
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
91	(51,51Z)RS-3	COLES	211	101
CONTRACT NO. 74694				
		ILLINOIS	FED. AID PROJECT	

SCALE: SHEET OF SHEETS STA. TO STA.



LEGEND

-  LANDING / TURNING SPACE
-  TRANSITION PANEL
-  DETECTABLE WARNING
- ME XXX.XX MATCH EXISTING AT ELEVATION SHOWN
- XXX.XX PROPOSED ELEVATION



MODEL: Default
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 OFFICE: 74694\11th.dwg

USER NAME = steffemk	DESIGNED -	REVISED -
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PLOT SCALE = 6,000' / in.	CHECKED -	REVISED -
PLOT DATE = 10/15/2019	DATE -	REVISED -

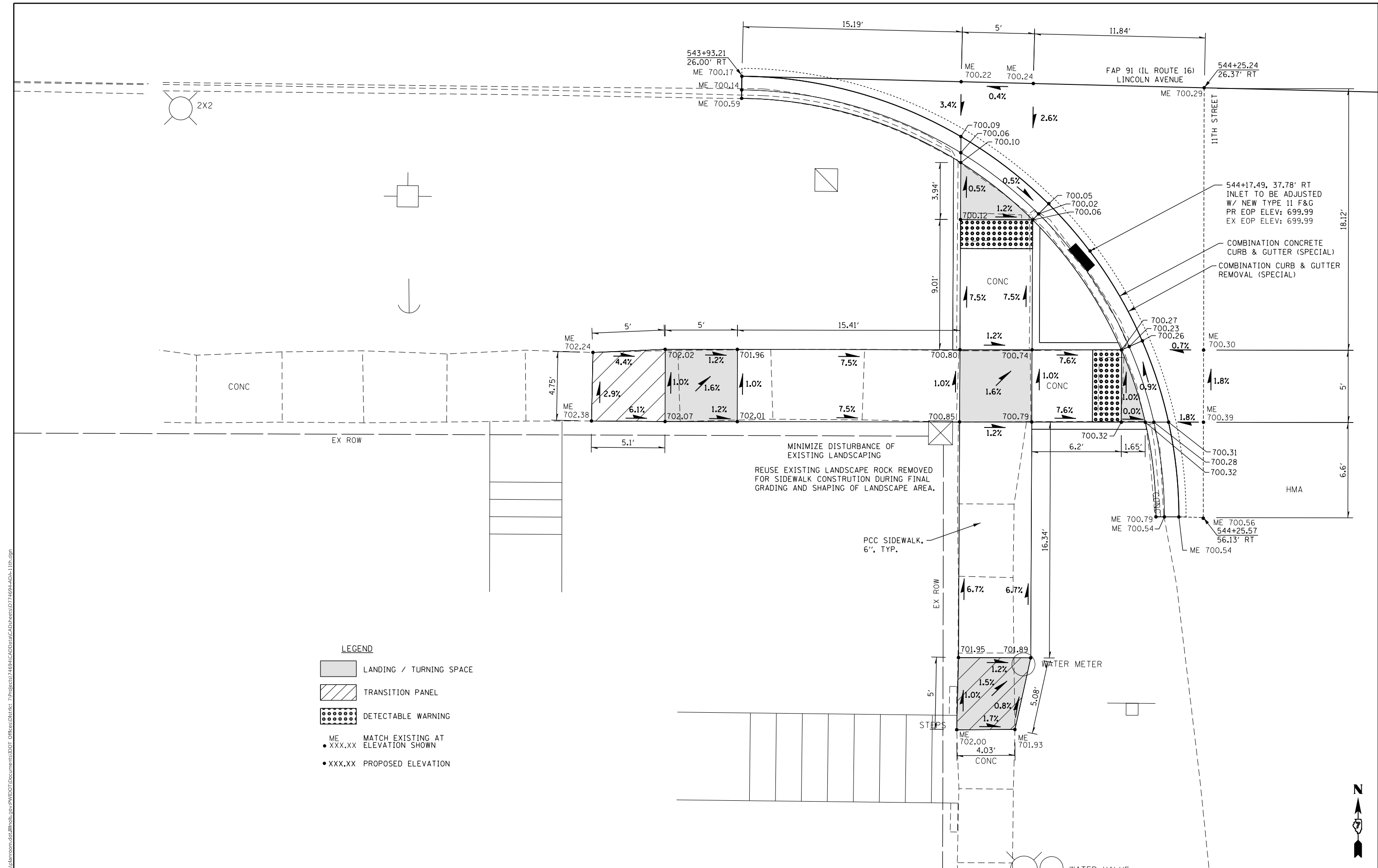
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ADA PLAN SHEET
11TH STREET - NE QUADRANT

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
91	(51,51Z)RS-3	COLES	211	102
CONTRACT NO. 74694				
ILLINOIS FED. AID PROJECT				

MODEL: Default
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- LEGEND**
- LANDING / TURNING SPACE
 - TRANSITION PANEL
 - DETECTABLE WARNING
 - ME • XXX.XX MATCH EXISTING AT ELEVATION SHOWN
 - XXX.XX PROPOSED ELEVATION

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

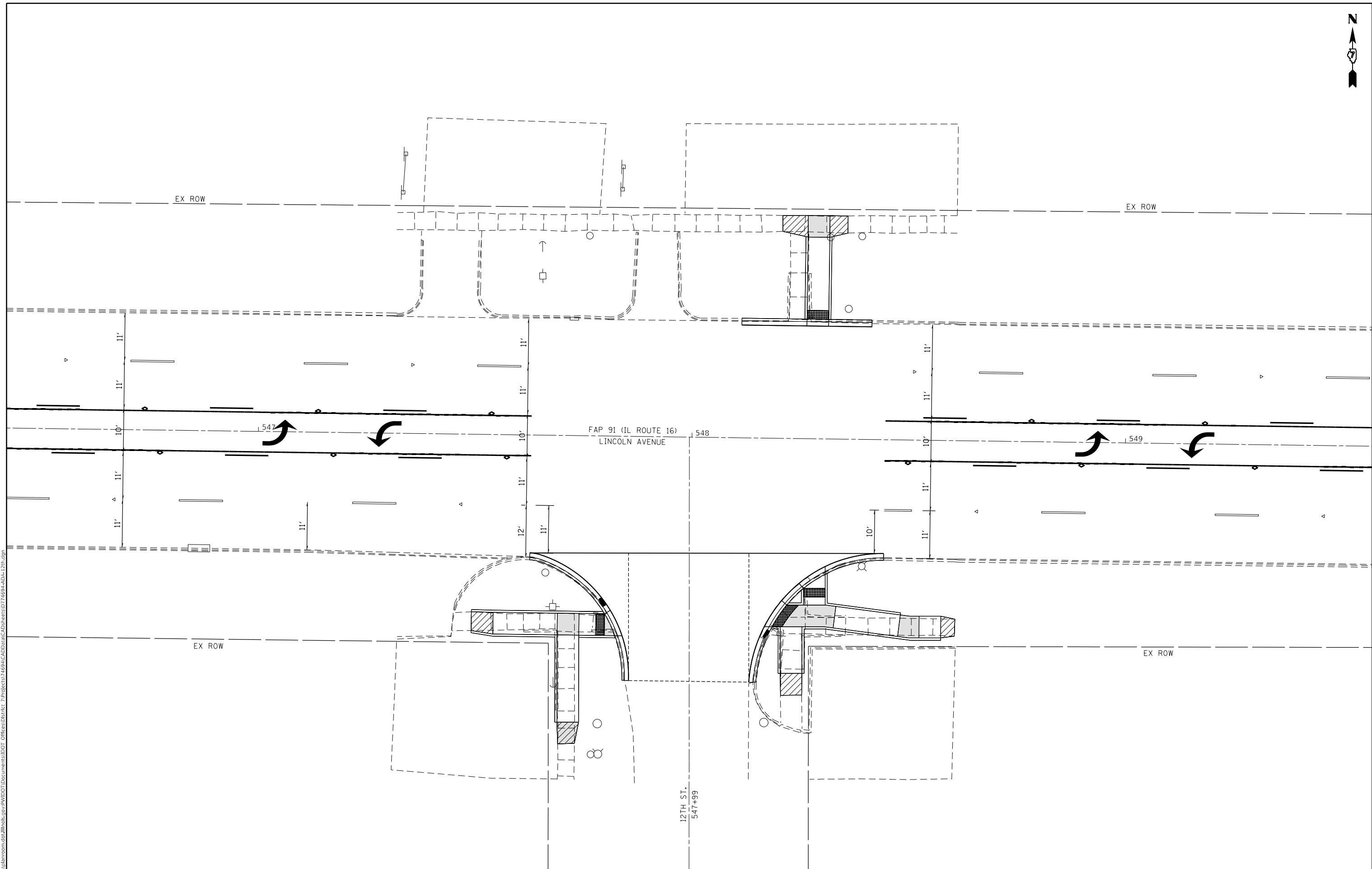
**ADA PLAN SHEET
 11TH STREET - SW QUADRANT**

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	DRAWN -	REVISED -
PLOT SCALE = 6,000' / in.	CHECKED -	REVISED -
PLOT DATE = 10/15/2019	DATE -	REVISED -

SCALE:	SHEET	OF	SHEETS	STA.	TO	STA.
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
91	(51,512)RS-3	COLES	211	103
CONTRACT NO. 74694				
		ILLINOIS	FED. AID PROJECT	





MODEL: Default
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PLOT DATE = 10/15/2019	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

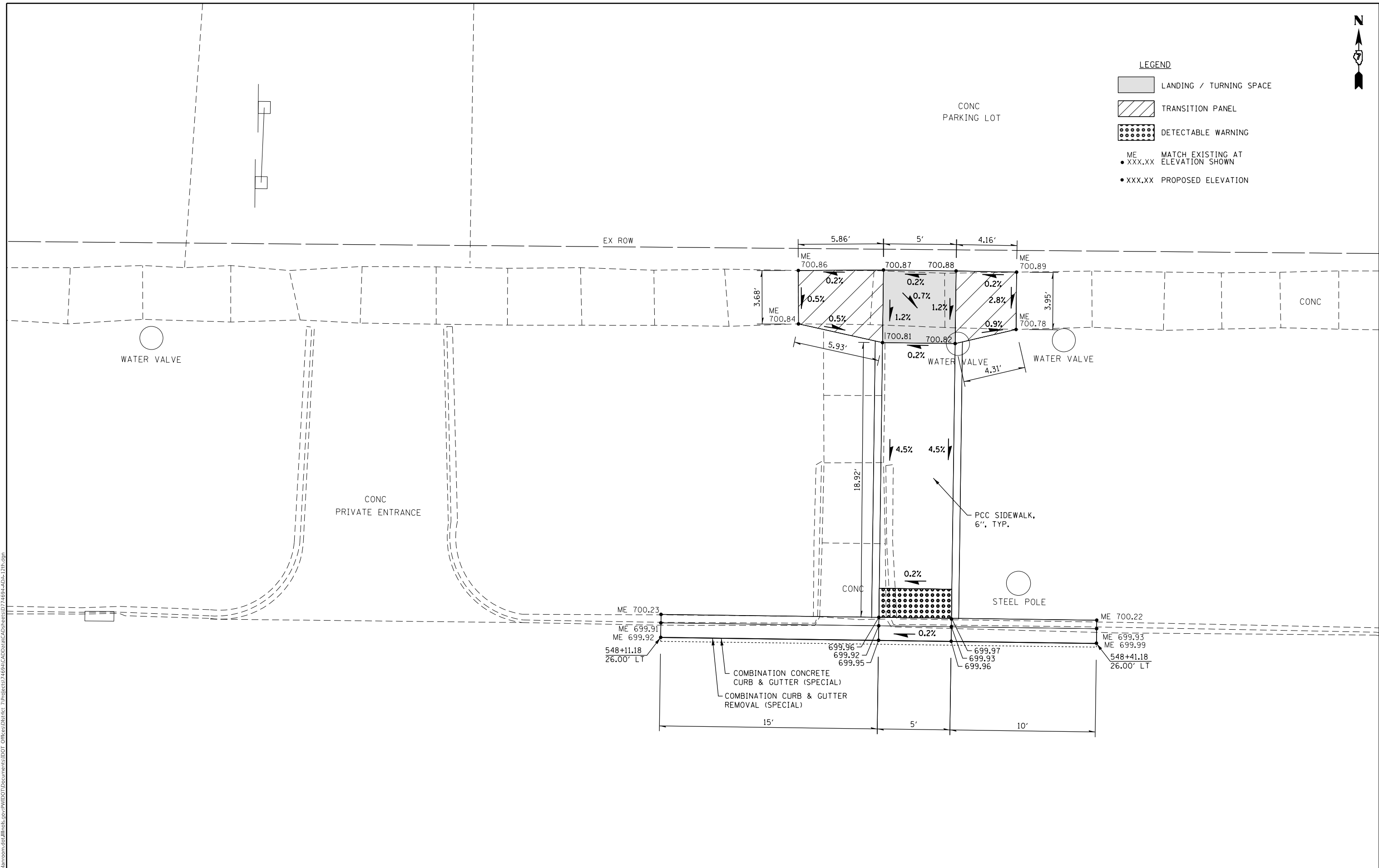
ADA PLAN SHEET				
STA. 548+00 12TH ST. - INTERSECTION				
SCALE:	SHEET	OF	SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
91	(51,51Z)RS-3	COLES	211	104
CONTRACT NO. 74694				
ILLINOIS FED. AID PROJECT				



LEGEND

- LANDING / TURNING SPACE
- TRANSITION PANEL
- DETECTABLE WARNING
- ME MATCH EXISTING AT ELEVATION SHOWN
- XXX.XX PROPOSED ELEVATION



MODEL: Default
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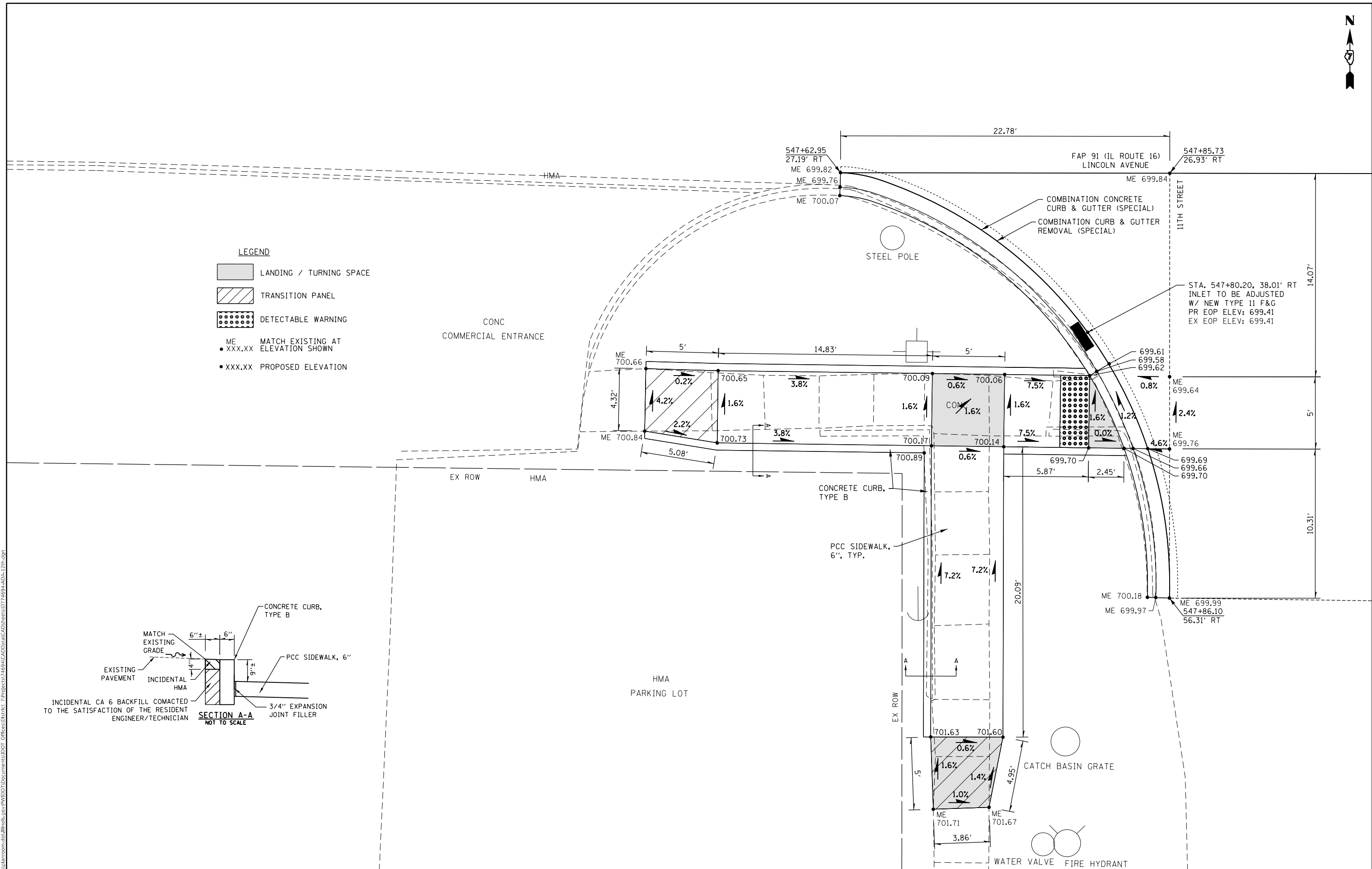
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PLOT DATE = 10/15/2019	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

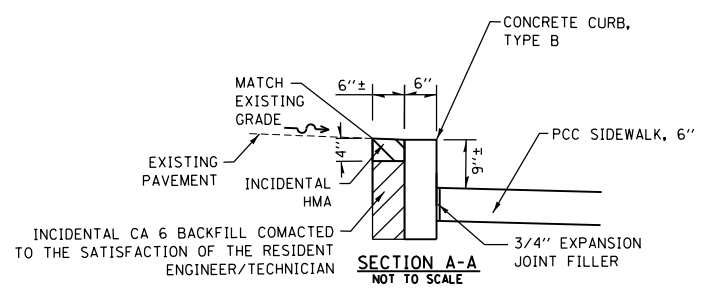
**ADA PLAN SHEET
12TH STREET - NE QUADRANT**

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
91	(51,51Z)RS-3	COLES	211	105
CONTRACT NO. 74694				
ILLINOIS FED. AID PROJECT				

SCALE: SHEET OF SHEETS STA. TO STA.



- LEGEND**
- LANDING / TURNING SPACE
 - TRANSITION PANEL
 - DETECTABLE WARNING
 - ME
• XXX.XX MATCH EXISTING AT ELEVATION SHOWN
 - XXX.XX PROPOSED ELEVATION



USER NAME = steffemk	DESIGNED -	REVISED -
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PLOT SCALE = 6,000' / in.	CHECKED -	REVISED -
PLOT DATE = 10/15/2019	DATE -	REVISED -

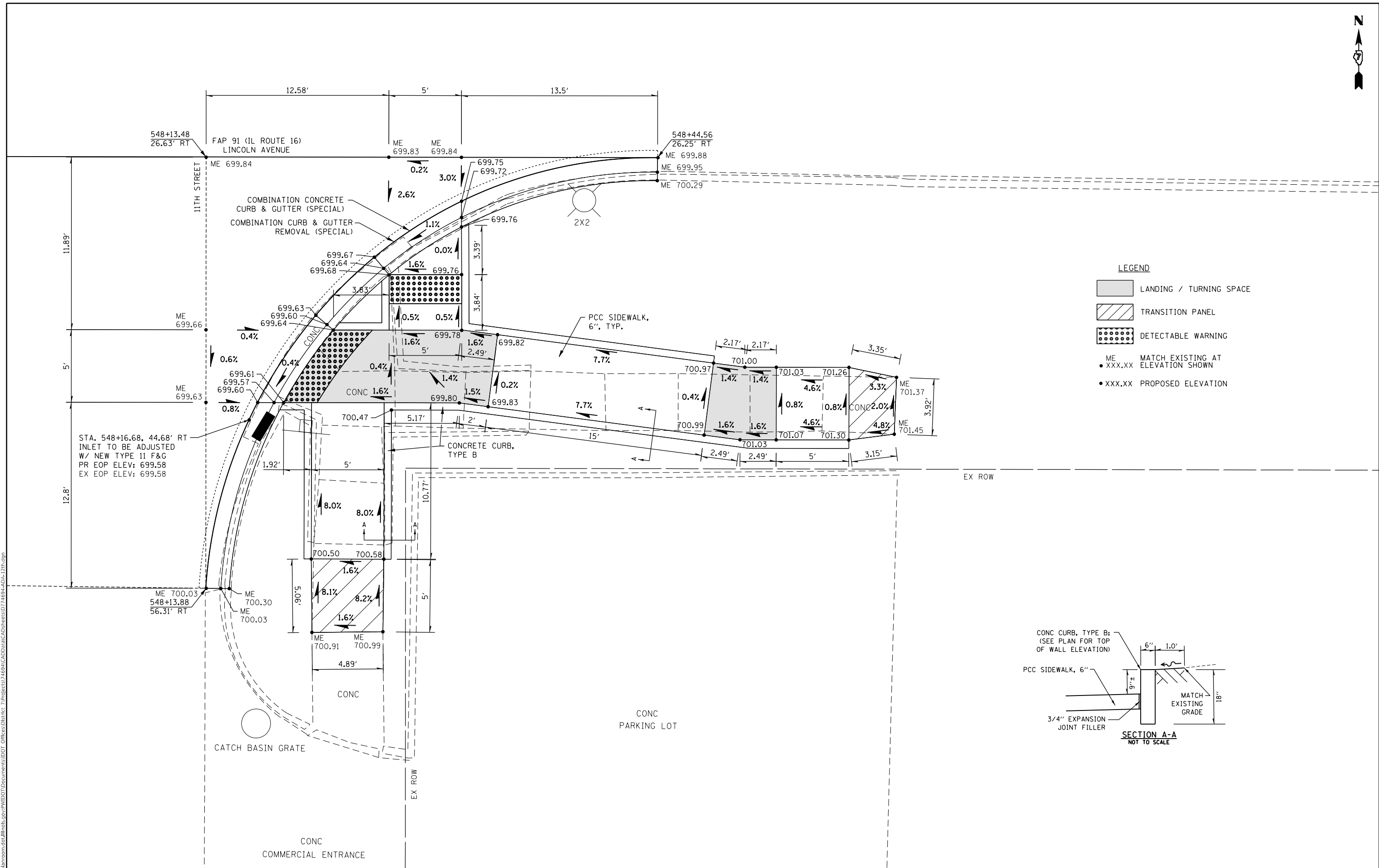
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ADA PLAN SHEET
12TH STREET - SW QUADRANT**




SCALE: SHEET OF SHEETS STA. TO STA.

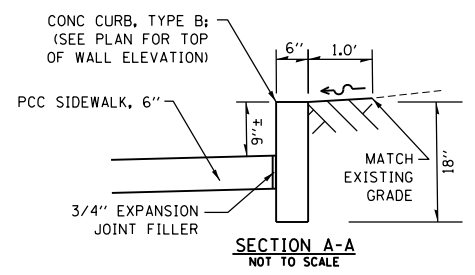
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
91	(51,51Z)RS-3	COLES	211	106
CONTRACT NO. 74694				
ILLINOIS FED. AID PROJECT				

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LEGEND

-  LANDING / TURNING SPACE
-  TRANSITION PANEL
-  DETECTABLE WARNING
- ME
• XXX.XX MATCH EXISTING AT ELEVATION SHOWN
- XXX.XX PROPOSED ELEVATION



MODEL: Default
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USER NAME = stefenmk	DESIGNED -	REVISED -
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PLOT DATE = 10/15/2019	DATE -	REVISED -

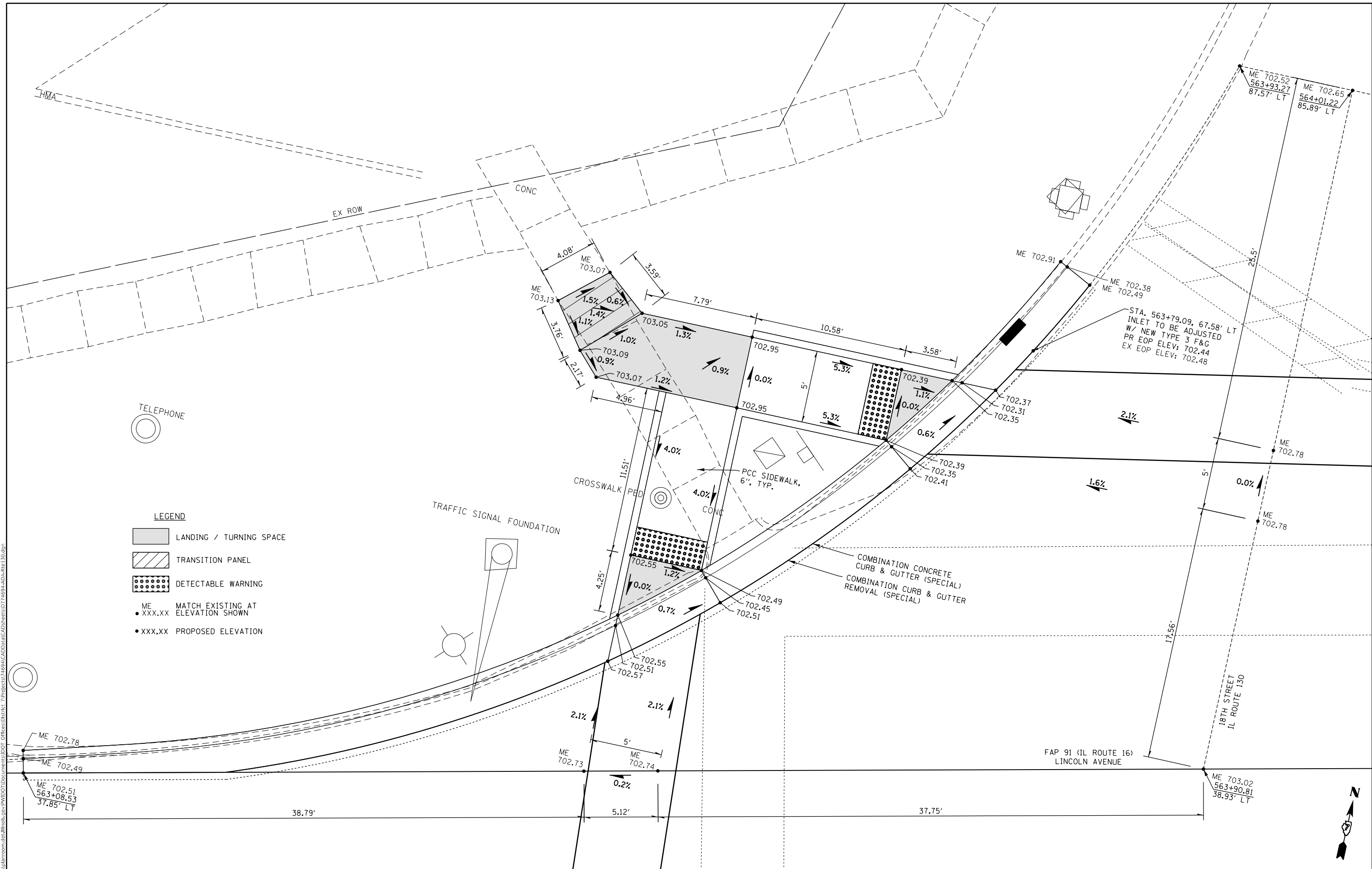
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ADA PLAN SHEET
12TH STREET - SE QUADRANT

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
91	(51,51Z)RS-3	COLES	211	107
CONTRACT NO. 74694				
ILLINOIS FED. AID PROJECT				

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- LEGEND**
- LANDING / TURNING SPACE
 - TRANSITION PANEL
 - DETECTABLE WARNING
 - ME XXX.XX MATCH EXISTING AT ELEVATION SHOWN
 - XXX.XX PROPOSED ELEVATION

USER NAME = steffnmk	DESIGNED -	REVISED -
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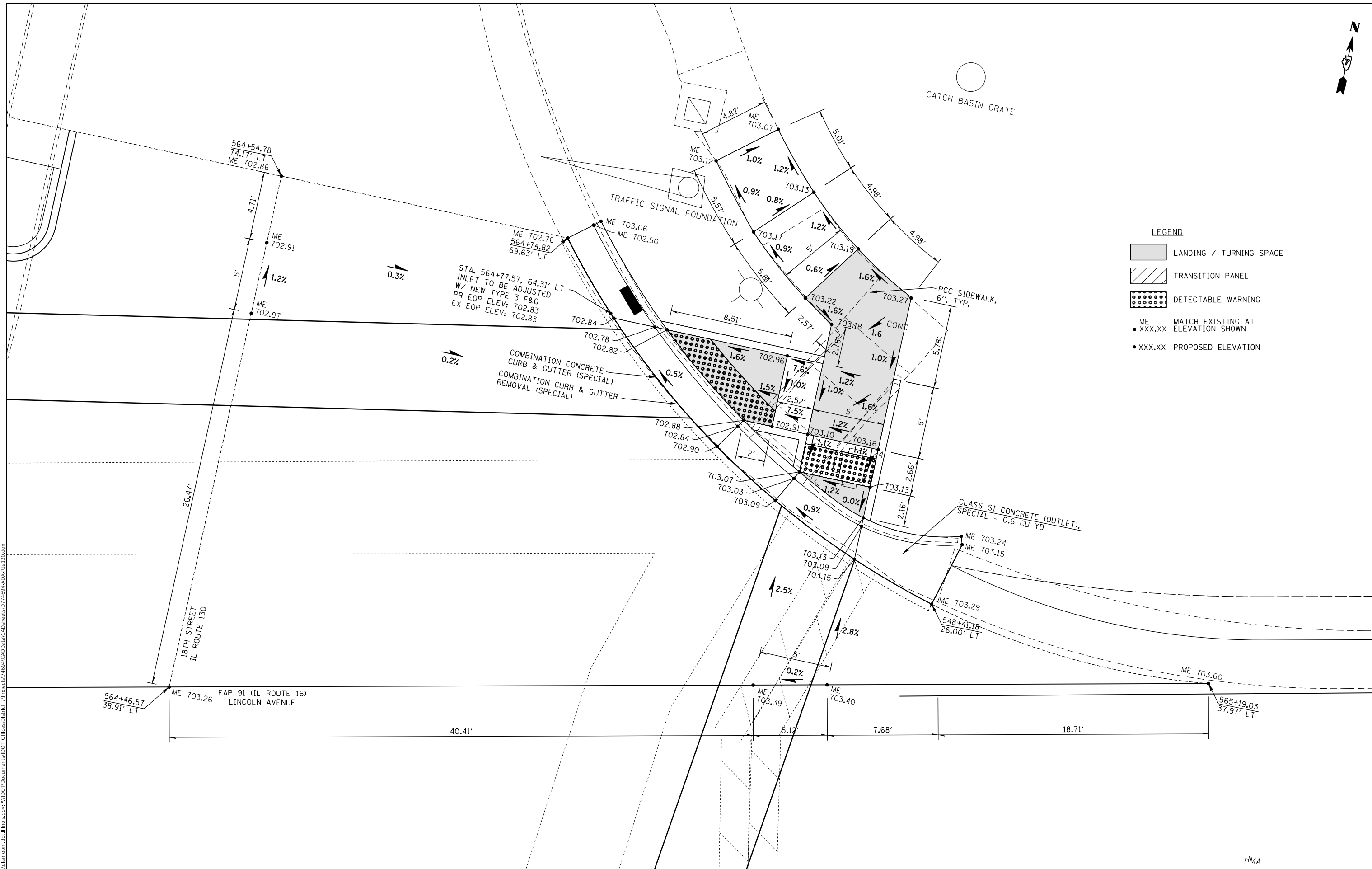
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ADA PLAN SHEET
IL ROUTE 130 / 18TH STREET - NW QUADRANT

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE. 91	SECTION (51,51Z)RS-3	COUNTY COLES	TOTAL SHEETS 211	SHEET NO. 109
CONTRACT NO. 74694				
ILLINOIS FED. AID PROJECT				





LEGEND

- LANDING / TURNING SPACE
- TRANSITION PANEL
- DETECTABLE WARNING
- ME XXX.XX MATCH EXISTING AT ELEVATION SHOWN
- XXX.XX PROPOSED ELEVATION

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	DRAWN -	REVISED -
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PLOT DATE = 10/15/2019	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

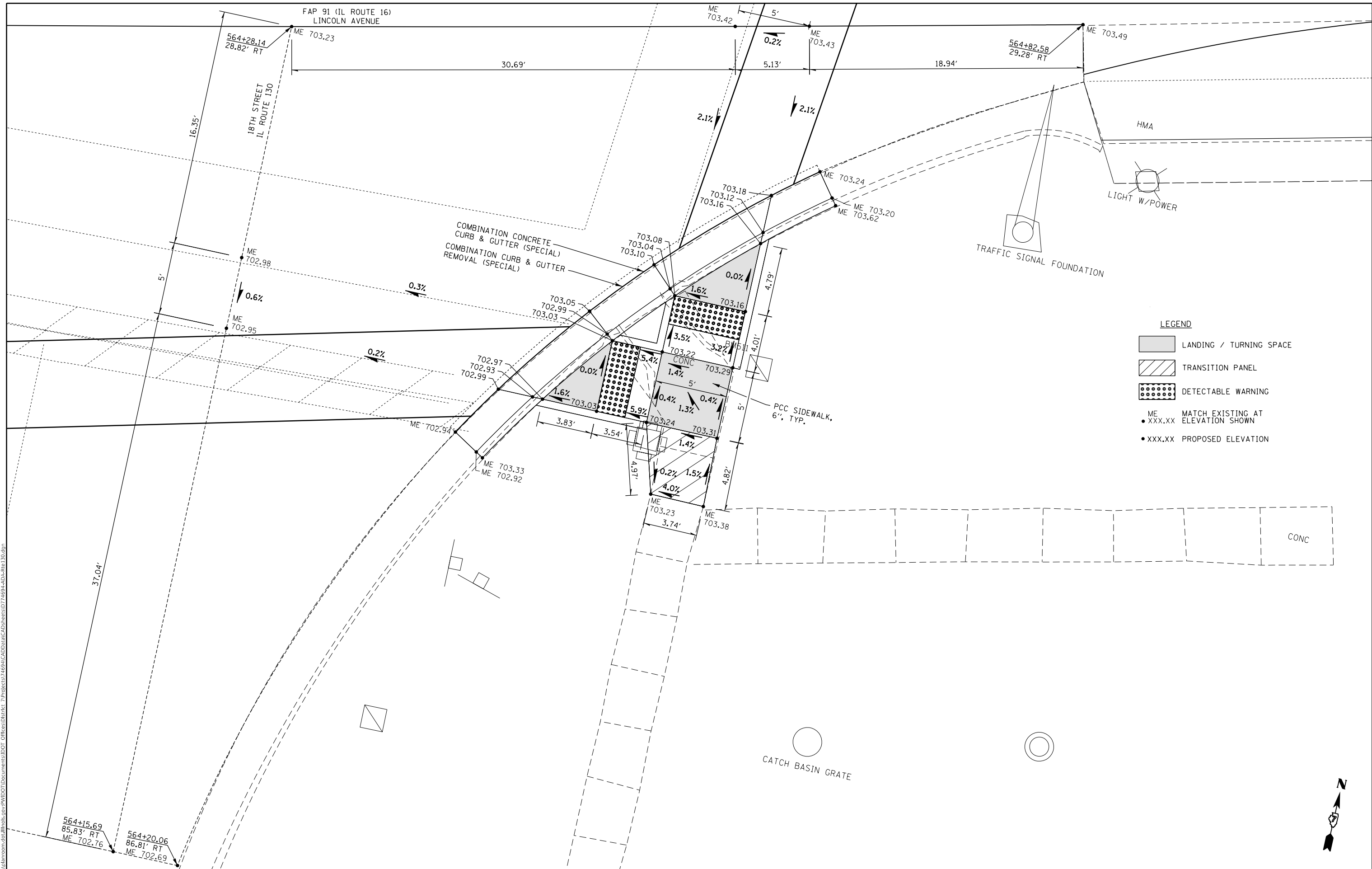
ADA PLAN SHEET
IL ROUTE 130 / 18TH STREET - NE QUADRANT

F.A.P. RTE. 91	SECTION (51.512)RS-3	COUNTY COLES	TOTAL SHEETS 211	SHEET NO. 110
CONTRACT NO. 74694				
ILLINOIS FED. AID PROJECT				

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SCALE: SHEET OF SHEETS STA. TO STA.

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- LEGEND**
- LANDING / TURNING SPACE
 - TRANSITION PANEL
 - DETECTABLE WARNING
 - ME XXX.XX MATCH EXISTING AT ELEVATION SHOWN
 - XXX.XX PROPOSED ELEVATION

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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

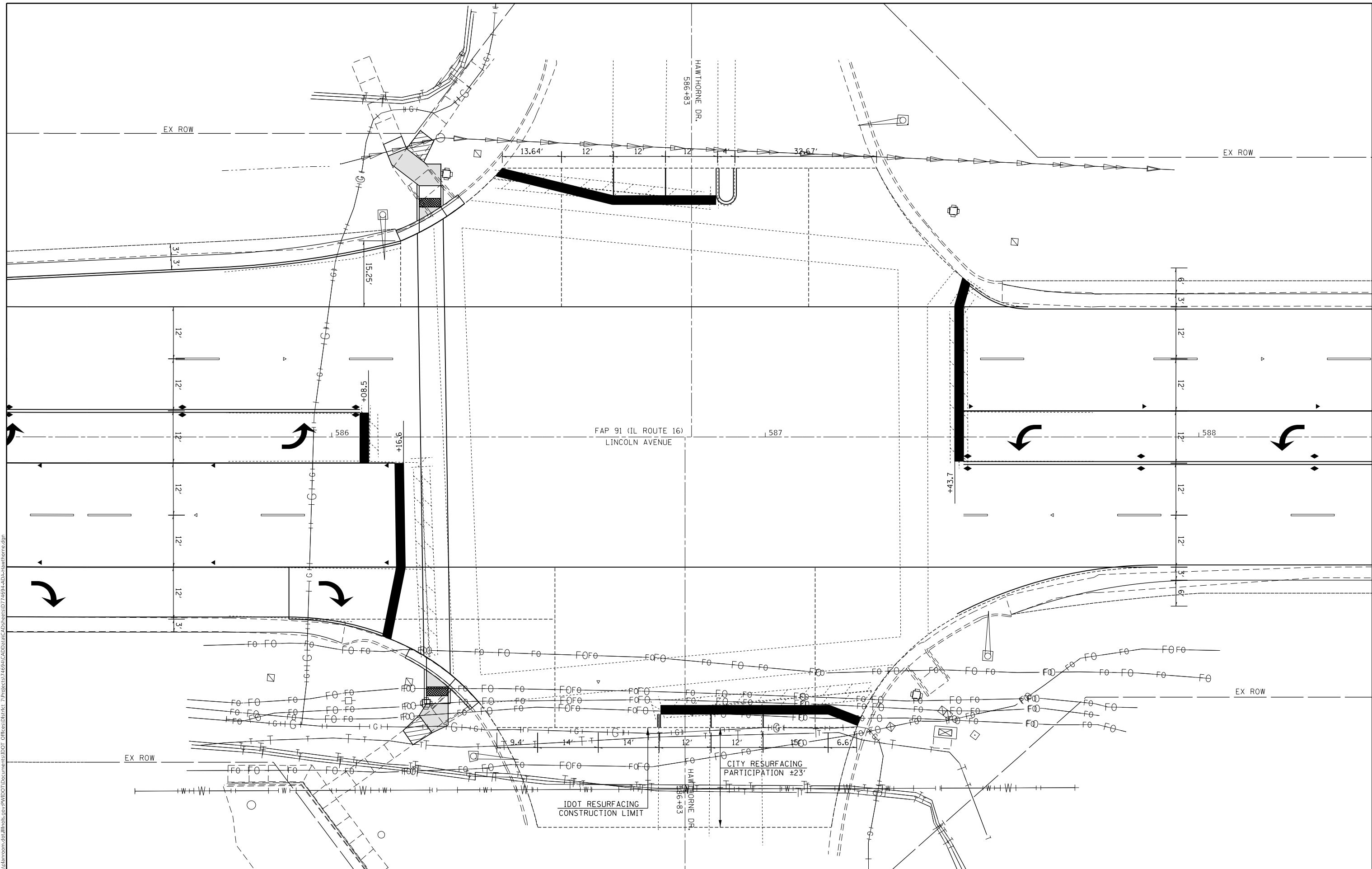
ADA PLAN SHEET
IL ROUTE 130 / 18TH STREET - SE QUADRANT

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
91	(51,51Z)RS-3	COLES	211	112
CONTRACT NO. 74694				
ILLINOIS FED. AID PROJECT				



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PLOT SCALE = 20.0000' / in.	CHECKED -	REVISED -
PLOT DATE = 10/15/2019	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ADA PLAN SHEET
STA. 586 + 90 HAWTHORNE DRIVE - INTERSECTION

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
91	(51,51Z)RS-3	COLES	211	113
CONTRACT NO. 74694				
ILLINOIS FED. AID PROJECT				

SCALE: SHEET OF SHEETS STA. TO STA.

TRAFFIC SIGNAL GENERAL NOTES

THIS TRAFFIC SIGNAL PORTION OF THIS PROJECT CONSISTS OF TRAFFIC SIGNAL MODERNIZATION AT 9 SEPARATE INTERSECTIONS ON LINCOLN AVENUE-IL 16 (DOUGLAS ST, REYNOLDS DR, UNIVERSITY DR, DIVISION ST, 4TH ST, 6TH ST, 9TH ST, 18TH ST AND HAWTHORNE DR) ALL IN THE CITY OF CHARLESTON, COLES COUNTY. THE WORK INCLUDED IN THIS SECTION CONSISTS OF INSTALLING TRAFFIC SIGNALS AND ALL OTHER WORK NECESSARY TO COMPLETE THIS PORTION OF THIS PROJECT.

THE EXISTING UTILITY LINES ARE SHOWN ON THE PLANS TO INDICATE THEIR PRESENCE AND APPROXIMATE LOCATION. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO BEGINNING CONSTRUCTION. CALL J.U.L.I.E. AT 1-800-892-0123. THE TRAFFIC SIGNAL UTILITY LINES WILL BE LOCATED BY IDOT, CALL 217-342-3951.

THE TRAFFIC SIGNAL ENGINEER AT THE ILLINOIS DEPARTMENT OF TRANSPORTATION SHALL BE NOTIFIED AT 217-342-8291 AT LEAST 72 HOURS PRIOR TO TURNING ON ANY FLASHER OR CONTROLLER UNIT.

THE SIZE OF THE CABLE SUPPLIED SHALL BE EQUAL TO OR GREATER THAN THE SIZE OF THE CABLE REQUIRED TO CARRY THE LOAD BETWEEN THE CONTROLLER AND THE SERVICE INSTALLATION.

THE CONTRACTOR SHALL ARRANGE FOR A FACTORY OR SUPPLIER REPRESENTATIVE TO BE PRESENT AT THE INTERSECTION WHEN THE SIGNALS ARE TURNED ON. THE REPRESENTATIVE SHALL MAKE CERTAIN THAT ALL EQUIPMENT OPERATES TO THE SATISFACTION OF THE ENGINEER.

A 2 FOOT MINIMUM, 6 FOOT DESIRABLE, HORIZONTAL CLEARANCE SHALL BE MAINTAINED FROM THE BACK OF CURB TO THE EDGE OF HANDHOLES, JUNCTION BOXES AND SIGNAL POST FOUNDATIONS. A 5 FOOT MINIMUM HORIZONTAL CLEARANCE SHALL BE MAINTAINED FROM THE BACK OF THE CURB TO ALL MAST ARM FOUNDATIONS. CONTROLLER FOUNDATIONS SHALL BE LOCATED AS FAR FROM THE BACK OF THE CURB AS POSSIBLE TO PROTECT THE CONTROLLER CABINET.

ALL HARDWARE SHALL BE TIGHTENED AND WELL SECURED. CABLES SHALL BE NEATLY WOUND IN HANDHOLES. CABLES SHALL BE NEATLY TRAINED IN THE CONTROLLER CABINET.

ALL THREADS OF BOLTS USED IN ASSEMBLY OF TRAFFIC SIGNAL COMPONENTS SHALL BE COATED WITH A NON-LEAD BASED ANTI-SEIZE COMPOUND, SIMILAR TO LEAD PLATE, PRIOR TO ASSEMBLY.

NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR PLACING CONDUIT AT GREATER THAN 2 FOOT MINIMUM DEPTH TO AVOID OBSTACLES SUCH AS UNDERGROUND UTILITIES.

THE CONTRACTOR IS RESPONSIBLE FOR UNCOVERING OR HAND DIGGING AROUND UTILITIES AS NECESSARY. THE COST OF THIS WORK IS TO BE INCLUDED WITH THE ELECTRICAL WORK PAY ITEM.

THE NUMBER OF CONDUCTORS FOR ELECTRIC CABLES AS SHOWN ON THE PLANS SHALL BE THE MINIMUM NUMBER OF CONDUCTORS FURNISHED FOR EACH LOCATION. THE CONTRACTOR MAY SUBSTITUTE AN ELECTRIC CABLE WITH MORE CONDUCTORS THAN SPECIFIED BUT NO ADDITIONAL COMPENSATION WILL BE MADE FOR THE EXTRA CONDUCTORS.

ALL NEW TRAFFIC SIGNAL WIRING SHALL EXTEND FROM CONTROLLER TO SIGNAL. SPLICES IN HANDHOLES WILL NOT BE ALLOWED.

ALL MAST ARM MOUNTED SIGNAL HEADS ON AN INDIVIDUAL MAST ARM SHALL BE MOUNTED SO THAT THE RED INDICATIONS ARE LEVEL WITH EACH OTHER.

ALL MAST ARM MOUNTED SIGNAL HEADS SHALL BE MOUNTED AS TO ALIGN WITH THE CENTER OF THE LANE.

TRAFFIC SIGNAL HEADS SHALL BE PROPERLY COVERED PRIOR TO INTERSECTION TURN-ON OR AS DIRECTED BY THE ENGINEER. THIS COST SHALL BE INCLUDED WITH THE COST OF THE ASSOCIATED SIGNAL HEAD PAY ITEMS.

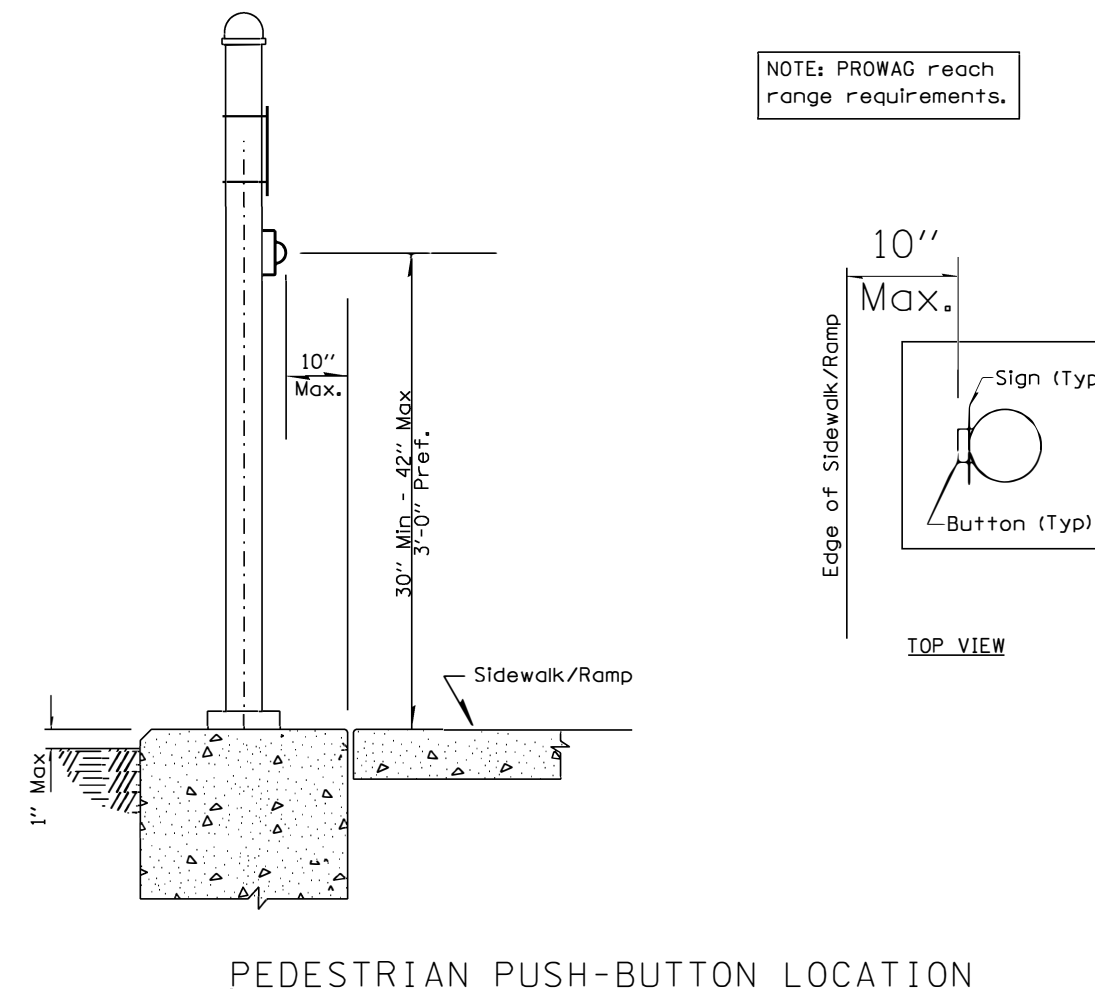
ALL TRAFFIC SIGNAL MAST ARM ASSEMBLIES (STANDARD, COMBINATION, OR DUAL) MUST BE DESIGNED FOR THE LOADINGS SHOWN ON THE HIGHWAY STANDARDS OR THESE SIGNAL PLANS, WHICHEVER IS GREATER.

NUMBER OF TURNS REQUIRED IN DETECTOR LOOPS

6 X 6		6 X 30		6 X 40		LOOP SIZE
		0	491	0	627	2 TURNS
		492	982	628	1255	3 TURNS
0	545	983	1636	1256	2091	4 TURNS
546	818	1637	2455	2092	3136	5 TURNS
819	1145	2456	3436			6 TURNS
1146	1527					7 TURNS
1528	1964					8 TURNS
1965	2455					9 TURNS
2456	3000					10 TURNS

Distance from the Controller Cabinet

	Existing	Proposed
SIGNAL POST	○	●
MAST ARM	○—	●—
SIGNAL HEAD W/ BACKPLATE	+▽	+▶
CONTROLLER	⊠	⊠
HANDHOLE	◻	◻
GULFBOX JUNCTION	○	○
DOUBLE HANDHOLE	◻	◻
DETECTOR LOOP	⊞	⊞
TRAFFIC SIGNAL HEAD	R Y G	R Y G
EMERGENCY VEHICLE PRE-EMPTION		▶
LUMINAIRE, LED, ROADWAY, OUTPUT DESIGNATION G 15 FT DAVIT ARM, 40 FT MOUNTING HEIGHT		▶



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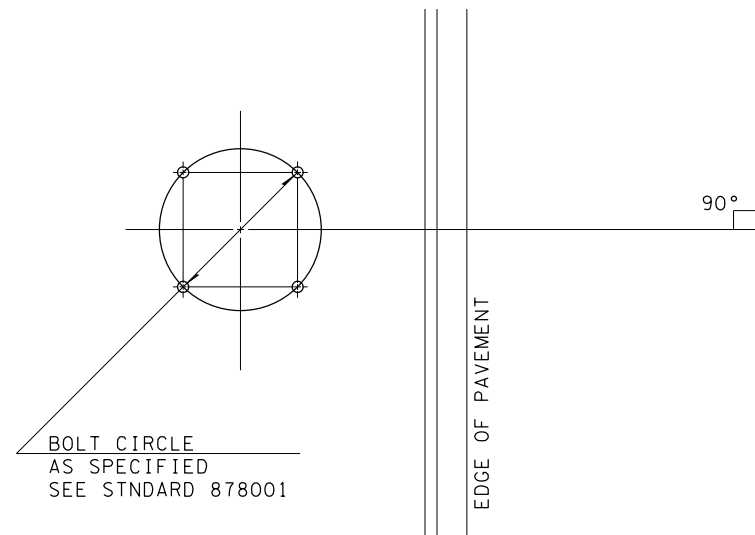
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PLOT DATE = 10/15/2019	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

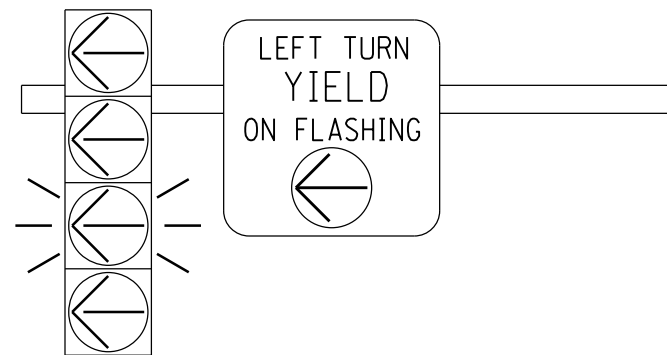
**INTERSECTIONS OF LINCOLN AVE (IL ROUTE 16)
SIGNAL GENERAL NOTES & DETAILS**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
91	(51,51Z)R5-3	COLES	211	116
CONTRACT NO. 74694				
ILLINOIS FED. AID PROJECT				

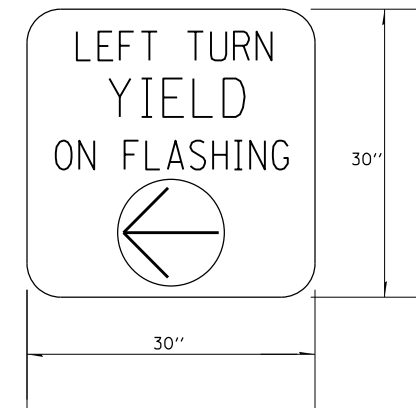


DETAIL OF MAST ARM FOUNDATION
BOLT PATTERN

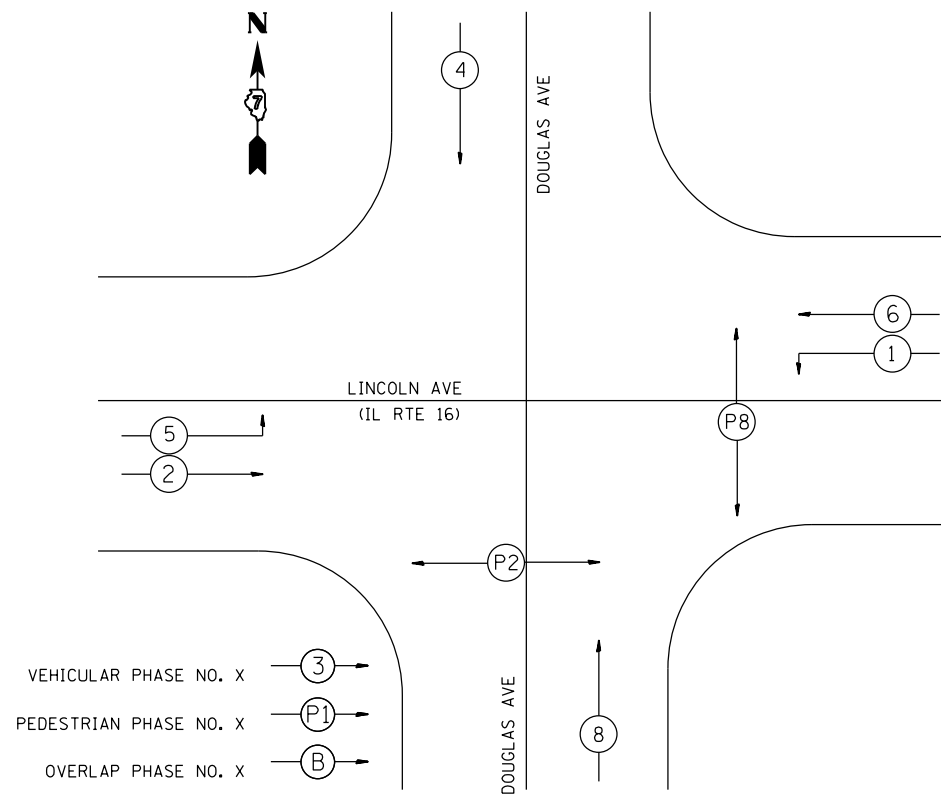


FLASHING YELLOW ARROW
SIGN PANEL DETAILS

1. SIGN SHALL HAVE A BLACK REFLECTORIZED LEGEND AND BORDER ON A WHITE REFLECTORIZED BACKGROUND. ARROW IS YELLOW ON A BLACK BACKGROUND.
2. AP SHEETING.
3. SIGN TO BE INSTALLED DIRECTLY ADJACENT TO FYA SIGNAL HEAD ON MAST ARM.
4. ILLINOIS STANDARD R10-1109a SIGN.

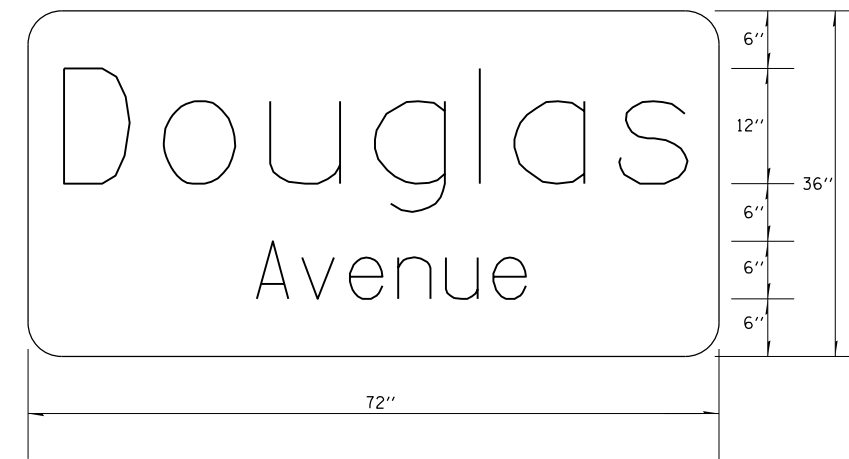


TO BE INSTALLED ON WESTBOUND MAST ARM (STA 470+29 43' LT)
TO BE INSTALLED ON EASTBOUND MAST ARM (STA 471+44 38' RT)



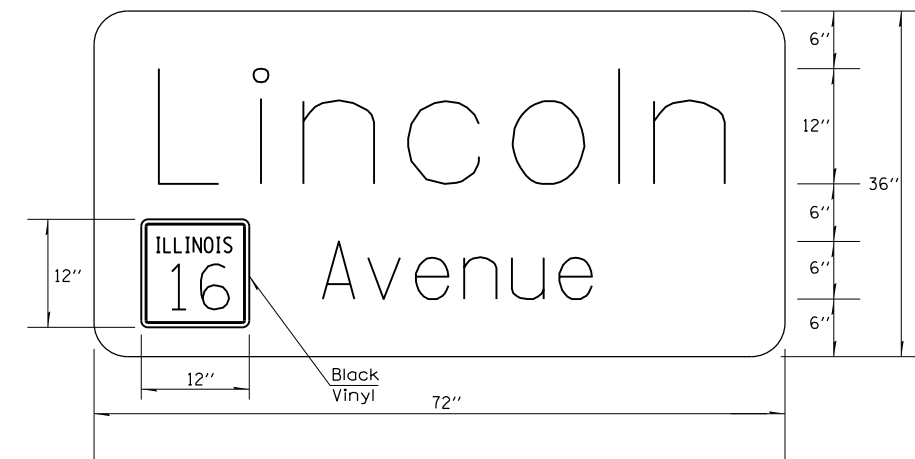
PHASE DESIGNATION DIAGRAM

1. SIGN SHALL HAVE A WHITE REFLECTORIZED LEGEND AND BORDER ON A GREEN REFLECTORIZED BACKGROUND.
2. AP SHEETING.
3. UPPER/LOWER CASE LETTERS, HIGHWAY D.



TO BE INSTALLED ON WESTBOUND MAST ARM (STA 470+29 43' LT)
TO BE INSTALLED ON EASTBOUND MAST ARM (STA 471+44 38' RT)

1. SIGN SHALL HAVE A WHITE REFLECTORIZED LEGEND AND BORDER ON A GREEN REFLECTORIZED BACKGROUND.
2. AP SHEETING.
3. UPPER/LOWER CASE LETTERS, HIGHWAY D.



TO BE INSTALLED ON SOUTHBOUND MAST ARM (STA 470+54 64' RT)
TO BE INSTALLED ON NORTHBOUND MAST ARM (STA 471+10 76' LT)

SIGN PANEL DETAILS

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INTERSECTION OF LINCOLN AVE (IL ROUTE 16) & DOUGLAS ST
DETAILS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
91	(51,51Z)RS-3	COLES	211	118
CONTRACT NO. 74694				

SCALE: SHEET OF SHEETS STA. TO STA.

ILLINOIS FED. AID PROJECT

USER NAME = steffenmk	DESIGNED -	REVISED -
PLOT SCALE = 20.0000 ' / in.	DRAWN -	REVISED -
PLOT DATE = 10/15/2019	CHECKED -	REVISED -
	DATE -	REVISED -

BILL OF MATERIALS-DOUGLAS STREET

ITEM	UNIT	QUANTITY
SIGN PANEL-TYPE 1	SQ FT	12.5
SIGN PANEL-TYPE 2	SQ FT	72
SERVICE INSTALLATION, TYPE A	EACH	1
UNDERGROUND CONDUIT, PVC, 3/4" DIA	FOOT	193
UNDERGROUND CONDUIT, PVC, 1" DIA	FOOT	961
UNDERGROUND CONDUIT, PVC, 1 1/2" DIA	FOOT	98
UNDERGROUND CONDUIT, PVC, 2" DIA	FOOT	94
UNDERGROUND CONDUIT, PVC, 4" DIA	FOOT	251
UNDERGROUND CONDUIT, PVC, 5" DIA	FOOT	34
HANDHOLE	EACH	4
DOUBLE HANDHOLE	EACH	1
GULFBOX JUNCTION	EACH	8
ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 3-1/C NO 8	FOOT	404
FULL-ACTUATED CONTROLLER AND TYPE IV CABINET	EACH	1
UNINTERRUPTABLE POWER SUPPLY, EXTENDED	EACH	1
TRANSCEIVER-FIBER OPTIC	EACH	1
FIBER OPTIC CABLE IN CONDUIT, NO 62.5/125, 6F	FOOT	1096
ELECTRIC CABLE IN CONDUIT, SIGNAL, NO 14 3C	FOOT	728
ELECTRIC CABLE IN CONDUIT, SIGNAL, NO 14 5C	FOOT	2286
ELECTRIC CABLE IN CONDUIT, SIGNAL, NO 14 7C	FOOT	875
ELECTRIC CABLE IN CONDUIT, LEAD-IN NO 14 1 PAIR	FOOT	2150
ELECTRIC CABLE IN CONDUIT, SERVICE, NO 6 2C	FOOT	23
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO 6 1C	FOOT	606
TRAFFIC SIGNAL POST, GALVANIZED STEEL 12 FT	EACH	2
TRAFFIC SIGNAL POST, GALVANIZED STEEL 14 FT	EACH	1
TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT	EACH	2
TRAFFIC SIGNAL POST, GALVANIZED STEEL 18 FT	EACH	1
PEDESTRIAN PUSH-BUTTON POST	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 38 FT	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 44 FT	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE, 24 FT	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE, 28 FT	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	18
CONCRETE FOUNDATION, TYPE C	FOOT	3.5
CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	20
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	28.5
SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	2
SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	8
SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 4-SECTION, MAST ARM MOUNTED	EACH	2
SIGNAL HEAD, POLYCARBONATE, LED, 2-FACE, 1-3 SECTION, 1-4 SECTION, BRACKET MOUNTED	EACH	2
PEDESTRIAN SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, BRACKET MOUNTED WITH COUNT DOWN TIMER	EACH	4
TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	16
INDUCTIVE LOOP DETECTOR	EACH	10
DETECTOR LOOP, TYPE I	FOOT	882
PEDESTRIAN PUSH-BUTTON	EACH	4

ITEM	UNIT	QUANTITY
TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1
REMOVE EXISTING SERVICE INSTALLATION	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING HANDHOLE	EACH	3
REMOVE EXISTING DOUBLE HANDHOLE	EACH	1
REMOVE EXISTING CONCRETE FOUNDATION	EACH	10
LUMINAIRE, LED, ROADWAY, OUTPUT DESIGNATION G	EACH	2

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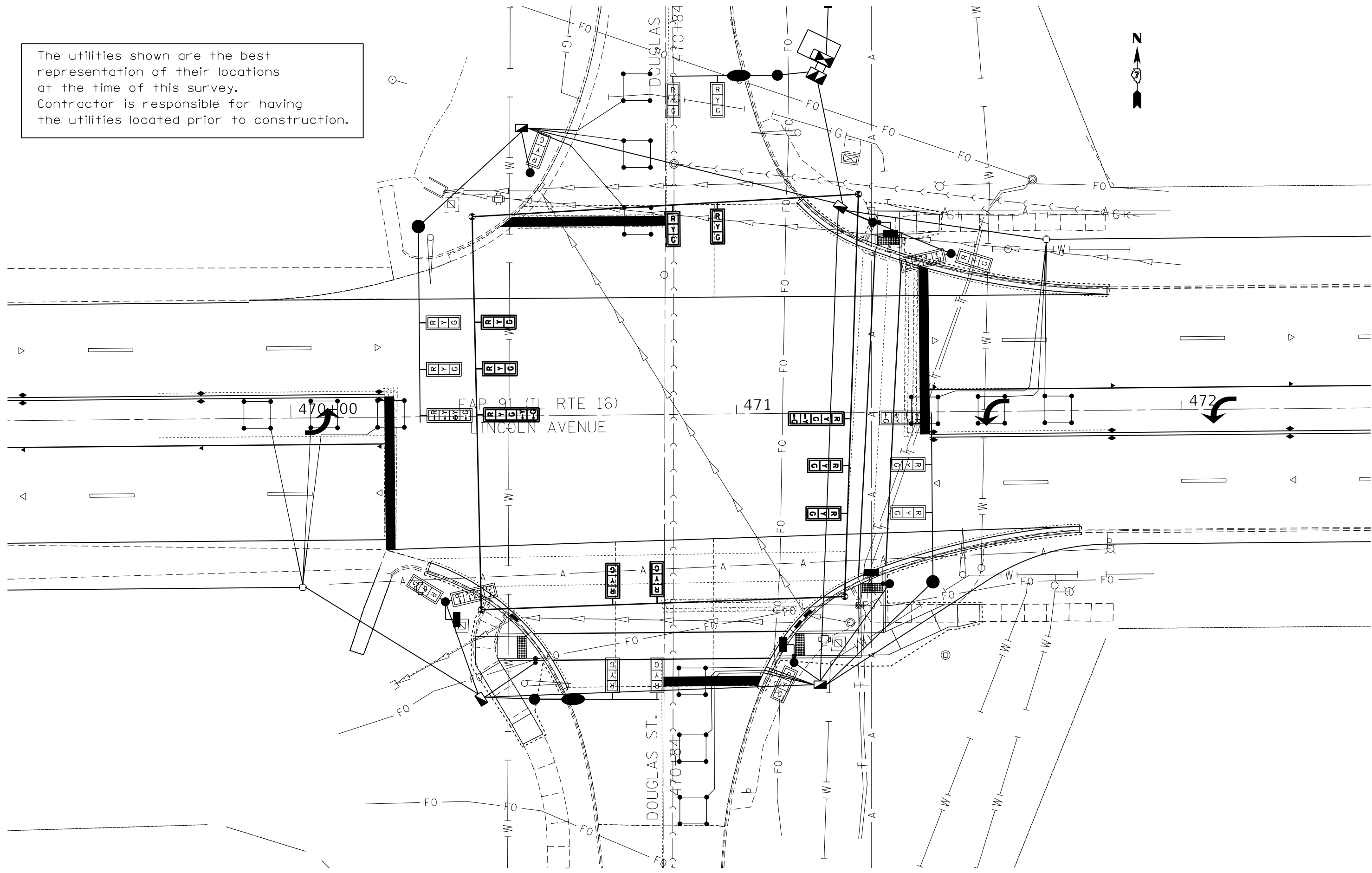
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**INTERSECTION OF LINCOLN AVE (IL ROUTE 16) & DOUGLAS ST
BILL OF MATERIALS**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
91	(51,51Z)RS-3	COLES	211	119
CONTRACT NO. 74694				
		ILLINOIS FED. AID PROJECT		

The utilities shown are the best representation of their locations at the time of this survey. Contractor is responsible for having the utilities located prior to construction.



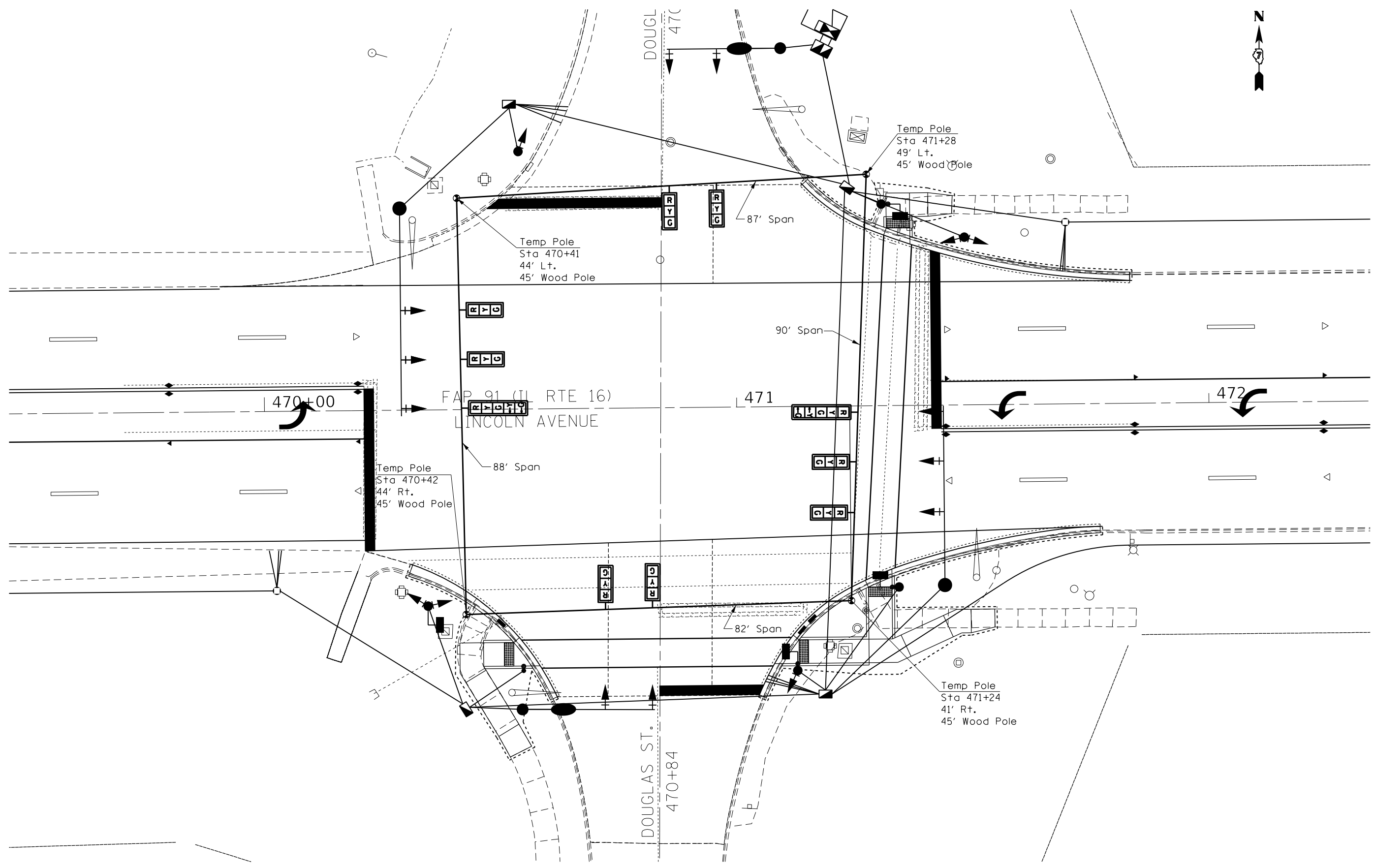
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INTERSECTION OF LINCOLN AVE (IL ROUTE 16) & DOUGLAS ST			
EXISTING UTILITY LAYOUT			
SCALE:	SHEET	OF SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
91	(51,51Z)RS-3	COLES	211	120
CONTRACT NO. 74694				
ILLINOIS FED. AID PROJECT				



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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INTERSECTION OF LINCOLN AVE (IL ROUTE 16) & DOUGLAS ST
TEMPORARY SIGNALS

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
91	(51,51Z)RS-3	COLES	211	121
CONTRACT NO. 74694				
ILLINOIS FED. AID PROJECT				

REMOVAL ITEMS

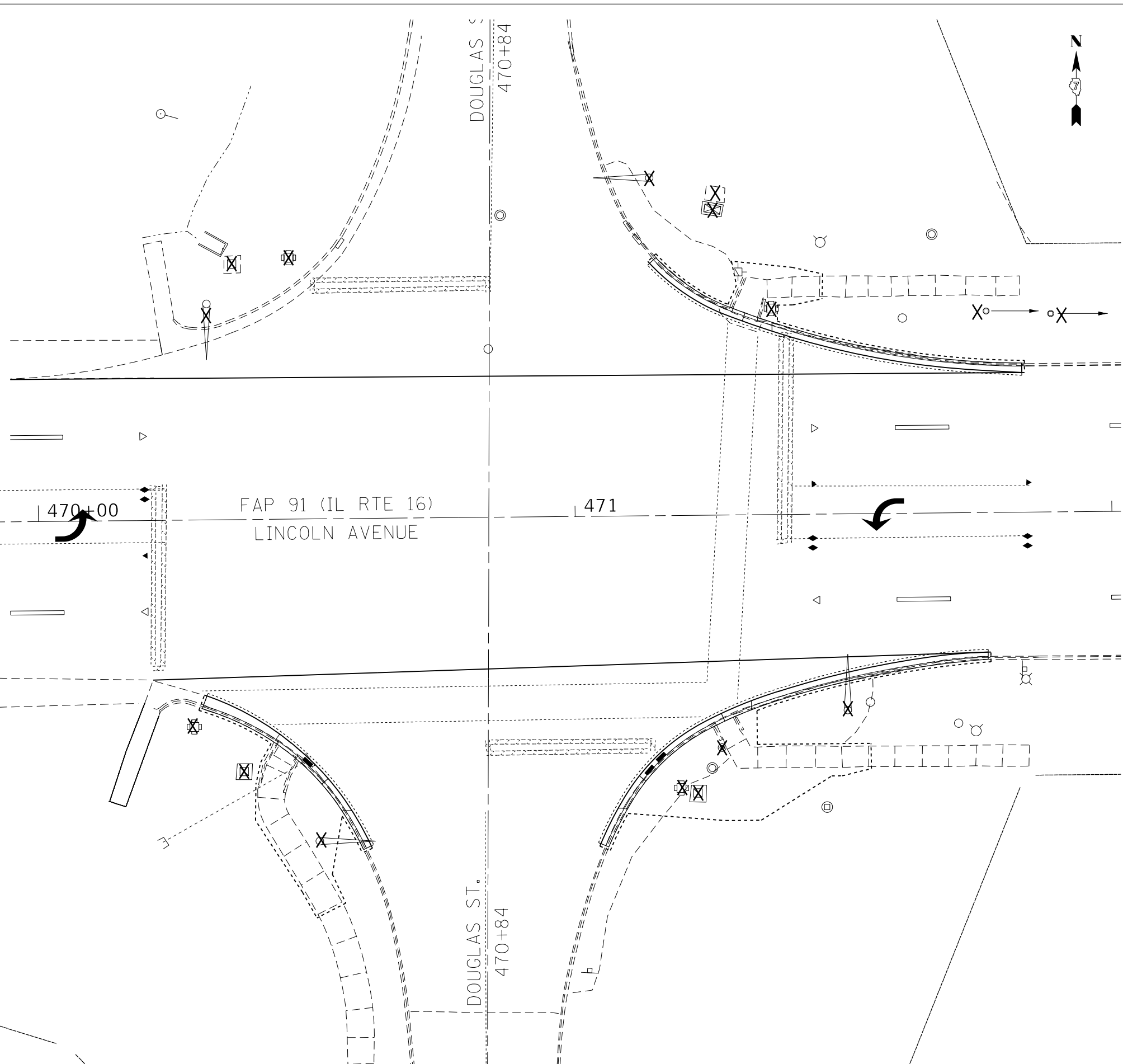
	Total	NW	NE	SE	SW
Remove Existing Service Installation	Each 1	-	1	-	-
Remove Existing Handhole	Each 3	1	-	1	1
Remove Existing Double Handhole	Each 1	-	1	-	-
Remove Existing Concrete Foundation	Each 10	2	3	3	2
Remove Existing Traffic Signal Equipment *	Each 1				

* See individual items below.

REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT

(QUANTITY: 1 EACH)

	Total	NW	NE	SE	SW
Pedestrian Signal Head	4	-	1	2	1
Pedestrian Push-Button	4	-	1	2	1
Pedestrian Push Button Post	1	-	-	1	-
Traffic signal Head-3 Section BM	4	1	1	1	1
Traffic Signal Head-5 Section BM	2	-	1	-	1
Traffic Signal Head-3 Section MAM	6	1	2	1	2
Traffic Signal Head-5 Section MAM	2	1	-	1	-
Traffic Signal Post	4	1	1	1	1
Traffic Signal Mast Arm	4	1	1	1	1
Traffic Signal Cabinet, Controller & Components	1	-	1	-	-
Gulfbbox Junction	4	-	2	-	2



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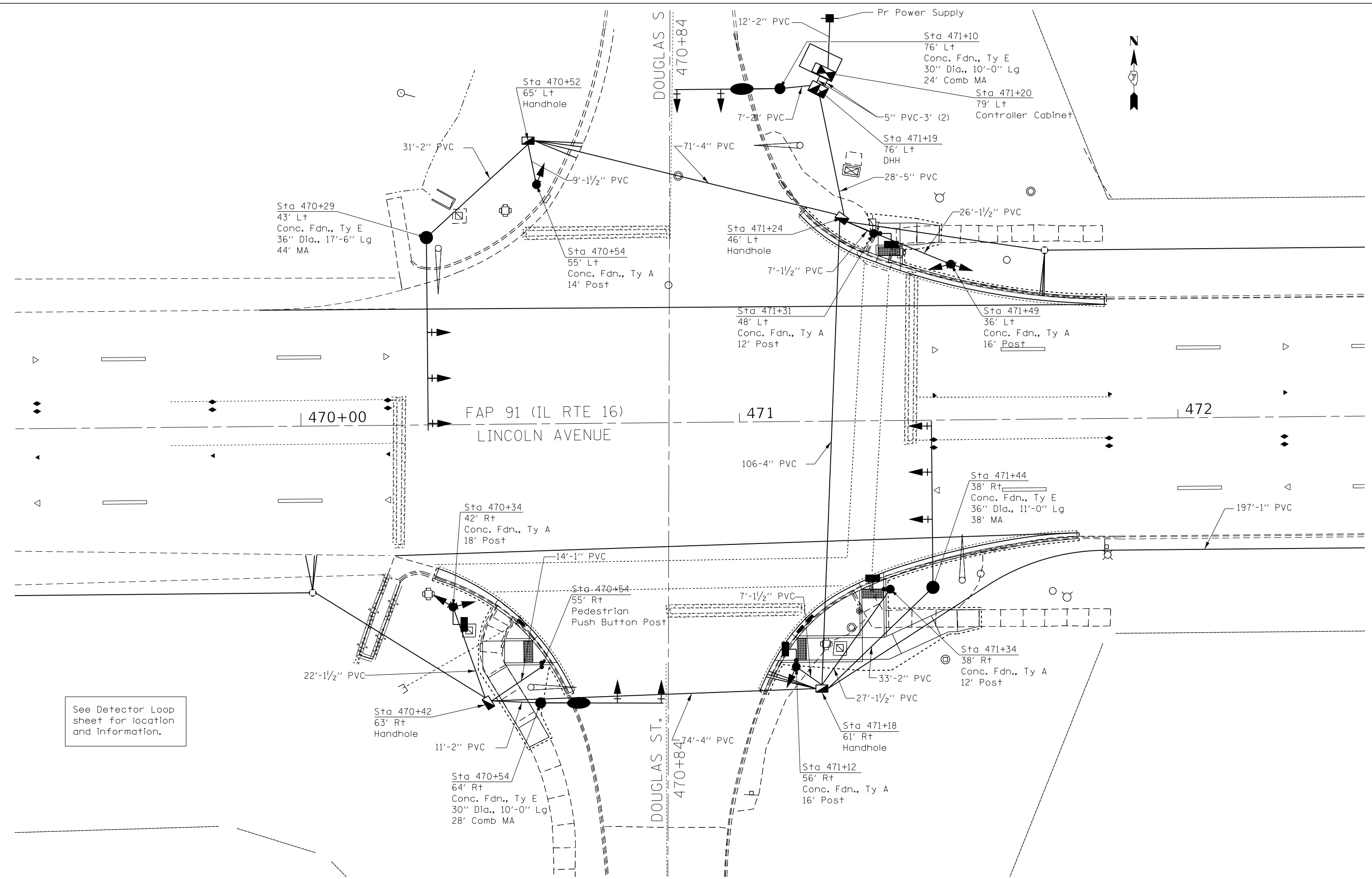
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INTERSECTION OF LINCOLN AVE (IL ROUTE 16) & DOUGLAS ST
TRAFFIC SIGNAL REMOVAL ITEMS

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
91	(51,51Z)RS-3	COLES	211	122
CONTRACT NO. 74694				
ILLINOIS FED. AID PROJECT				

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See Detector Loop sheet for location and information.

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PLOT DATE = 10/15/2019	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

INTERSECTION OF LINCOLN AVE (IL ROUTE 16) & DOUGLAS ST SIGNAL LAYOUT				
SCALE:	SHEET	OF	SHEETS	STA. TO STA.

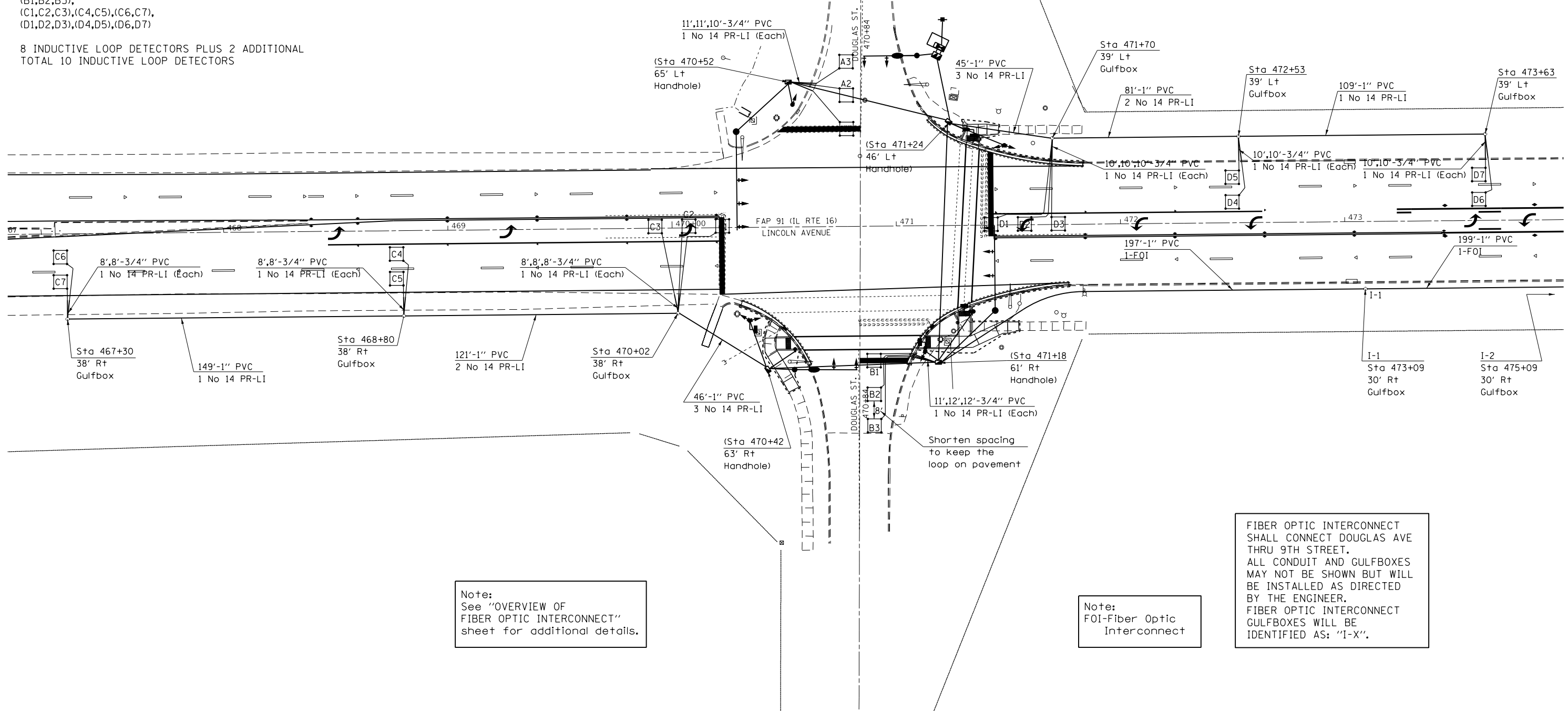
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
91	(51,51Z)RS-3	COLES	211	123
CONTRACT NO. 74694				
ILLINOIS FED. AID PROJECT				

LOOP:	SIZE:	MODE:	QUADRA-POLE:	DELAY:
A1,A2,A3, B1,B2,B3, C1,C2,C3, D1,D2,D3	6' X 6'	NORMAL	NO	0
C4,C5, C6,C7, D4,D5, D6,D7	6' X 6'	EXTENDED	NO	0

THE FOLLOWING CABLES SHALL BE WIRED TO COMMON INDUCTIVE LOOP DETECTOR:

- (A1,A2,A3),
- (B1,B2,B3),
- (C1,C2,C3),(C4,C5),(C6,C7),
- (D1,D2,D3),(D4,D5),(D6,D7)

8 INDUCTIVE LOOP DETECTORS PLUS 2 ADDITIONAL
TOTAL 10 INDUCTIVE LOOP DETECTORS



Note:
See "OVERVIEW OF
FIBER OPTIC INTERCONNECT"
sheet for additional details.

Note:
FOI-Fiber Optic
Interconnect

FIBER OPTIC INTERCONNECT
SHALL CONNECT DOUGLAS AVE
THRU 9TH STREET.
ALL CONDUIT AND GULFBXES
MAY NOT BE SHOWN BUT WILL
BE INSTALLED AS DIRECTED
BY THE ENGINEER.
FIBER OPTIC INTERCONNECT
GULFBXES WILL BE
IDENTIFIED AS: "I-X".

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INTERSECTION OF LINCOLN AVE (IL ROUTE 16) & DOUGLAS ST
DETECTOR LOOPS & FIBER INTERCONNECT

F.A.P. RTE. 91	SECTION (51,512)RS-3	COUNTY COLES	TOTAL SHEETS 211	SHEET NO. 125
CONTRACT NO. 74694				
ILLINOIS		FED. AID PROJECT		

SCALE: SHEET OF SHEETS STA. TO STA.



SOIL BORING LOG

ROUTE FAP 91 (IL-16) DESCRIPTION Southwest Quad LOGGED BY E. Sandschafer

SECTION (50,51,51Z)RS-3 LOCATION IL 16 at Douglas, SEC. 15, TWP. 12N, RNG. 9E, 3 PM

COUNTY Coles DRILLING METHOD Hollow stem auger & split spoon HAMMER TYPE Auto 140#

STRUCT. NO. Traffic Signal Station 470+54 64' Rt. BORING NO. B1 - Douglas Station 470+60 Offset 69.0ft Rt Ground Surface Elev. 686.70 ft

Table with columns for soil type, depth (ft), blow count (tsf), and SPT value (%). Includes soil descriptions like 'Dense, damp, grey, SANDY LOAM' and 'Very stiff'.

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer, E-Estimated) Abbreviations W.O.H - Sampler Advanced By Weight of Hammer, W.O.P - Advanced by Weight of Pipe, B.S. - Before Sealing



SOIL BORING LOG

ROUTE FAP 91 (IL-16) DESCRIPTION Northwest Quad LOGGED BY E. Sandschafer

SECTION (50,51,51Z)RS-3 LOCATION IL 16 at Douglas, SEC. 15, TWP. 12N, RNG. 9E, 3 PM

COUNTY Coles DRILLING METHOD Hollow stem auger & split spoon HAMMER TYPE Auto 140#

STRUCT. NO. Traffic Signal Station 470+29 43' Lt. BORING NO. B2 - Douglas Station 470+06 Offset 38.0ft Lt Ground Surface Elev. 685.36 ft

Table with columns for soil type, depth (ft), blow count (tsf), and SPT value (%). Includes soil descriptions like 'Dense, damp, grey, SANDY LOAM' and 'Very stiff'.

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer, E-Estimated) Abbreviations W.O.H - Sampler Advanced By Weight of Hammer, W.O.P - Advanced by Weight of Pipe, B.S. - Before Sealing

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Table with columns: USER NAME, DESIGNED, DRAWN, PLOT SCALE, PLOT DATE, REVISIONS.

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

INTERSECTION OF LINCOLN AVE (IL ROUTE 16) & DOUGLAS ST BORING LOGS

Table with columns: F.A.P. RTE., SECTION, COUNTY, TOTAL SHEETS, SHEET NO., CONTRACT NO.



SOIL BORING LOG

ROUTE FAP 91 (IL-16) DESCRIPTION Northeast Quad LOGGED BY E. Sandschafer

SECTION (50,51,51Z)RS-3 LOCATION IL 16 at Douglas, SEC. 15, TWP. 12N, RNG. 9E, 3 PM

COUNTY Coles DRILLING METHOD Hollow stem auger & split spoon HAMMER TYPE Auto 140#

STRUCT. NO. Traffic Signal
Station 471+10 76' Lt.

BORING NO. B3 - Douglas
Station 471+05
Offset 89.0ft Lt
Ground Surface Elev. 686.76 ft

D E P T H (ft) /6" (tsf) (%)

Surface Water Elev. N/A ft
Stream Bed Elev. N/A ft

Groundwater Elev.:
▽ First Encounter Dry ft
▽ Upon Completion Dry ft
▽ After 24 Hrs.7' cave in @14' ft

D E P T H (ft) /6" (tsf) (%)

Soil Description	Depth (ft)	Penetration (tsf)	Moisture (%)	Notes
Topsoil.	0 - 686.51			
Brown, CLAY LOAM	686.51 - 682.26	3	19	Very stiff, moist.
		5	3.09	
		6	B	
Soft, wet, brown, SILTY CLAY LOAM	682.26 - 677.26	1	26	Very stiff, moist.
		2	0.41	
		4	B	
		2		
		4	2.40	
		5	BS	
Very stiff, moist, grey, CLAY LOAM	677.26 - 672.26	3	13	
		5	2.47	
		7	B	
Till with gravel	672.26 - 667.26	3	12	
		4	2.27	
		6	B	
		3		
		5	2.27	
		8	B	
		3		
		5	2.68	
		8	B	
Stiff	667.26 - 665.76	4		

Extent of Exploration.

Benchmark: BM 501 NW quad of Douglas Dr. and IL 16, chiseled square on E. side of mast arm 52' W. of CL Douglas Dr, 40' N of CL IL 16

File Name: S:\NEW GEOTECHNICAL\GINT\DATA\PROJECTS\COLES CO (015)\015-0000 CHARLESTON TRAFFIC SIGNALS 2018.GPJ Data Template 06TEMP1T.GDT Date Printed 10/3/18 Latitude W 88.195826 Longitude N 39.484543 Datum Job Number

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The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer, E-Estimated)
Abbreviations W.O.H - Sampler Advanced By Weight of Hammer, W.O.P - Advanced by Weight of Pipe, B.S. - Before Seating
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) BBS, Form 137 (Rev. 8-99)

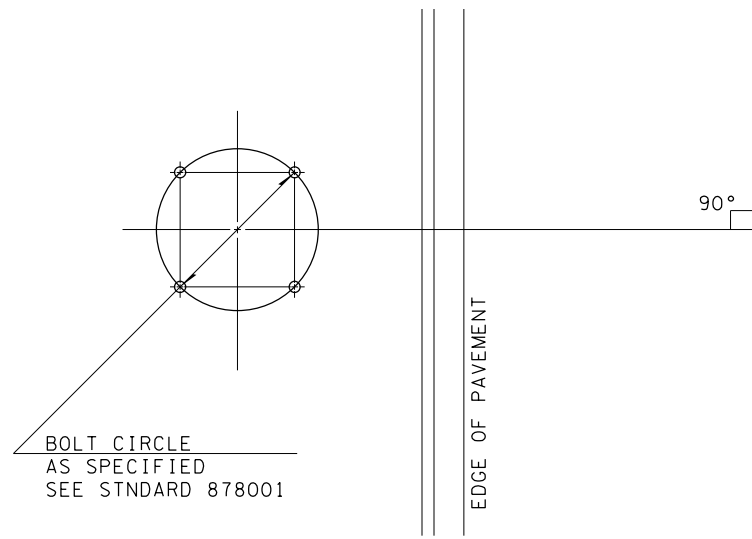
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

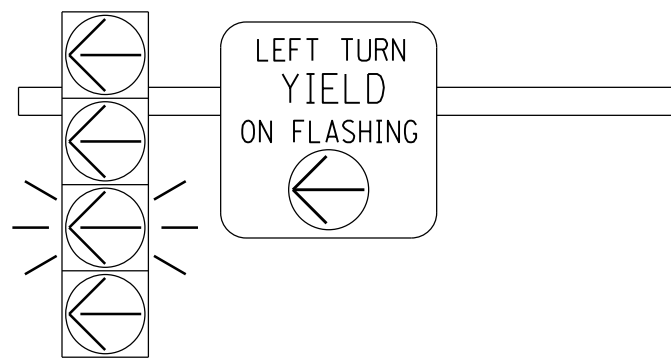
INTERSECTION OF LINCOLN AVE (IL ROUTE 16) & DOUGLAS ST
BORING LOGS

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
91	(51,51Z)RS-3	COLES	211	127
CONTRACT NO. 74694				
ILLINOIS FED. AID PROJECT				

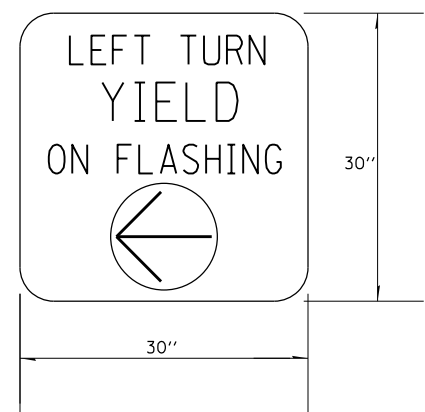


DETAIL OF MAST ARM FOUNDATION
BOLT PATTERN

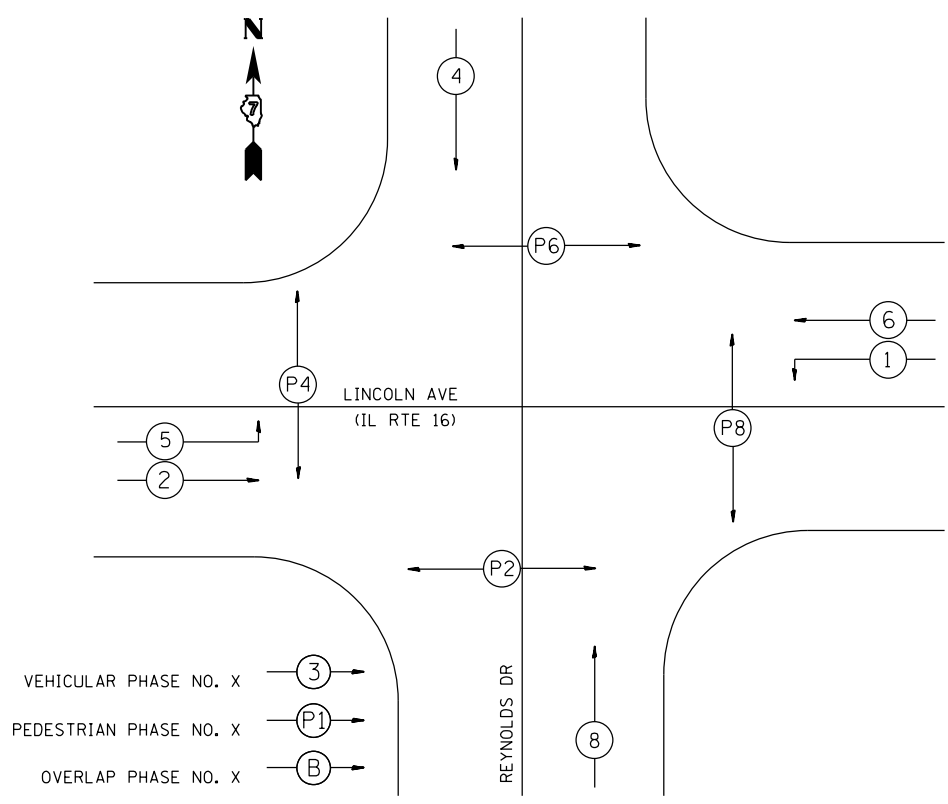


FLASHING YELLOW ARROW
SIGN PANEL DETAILS

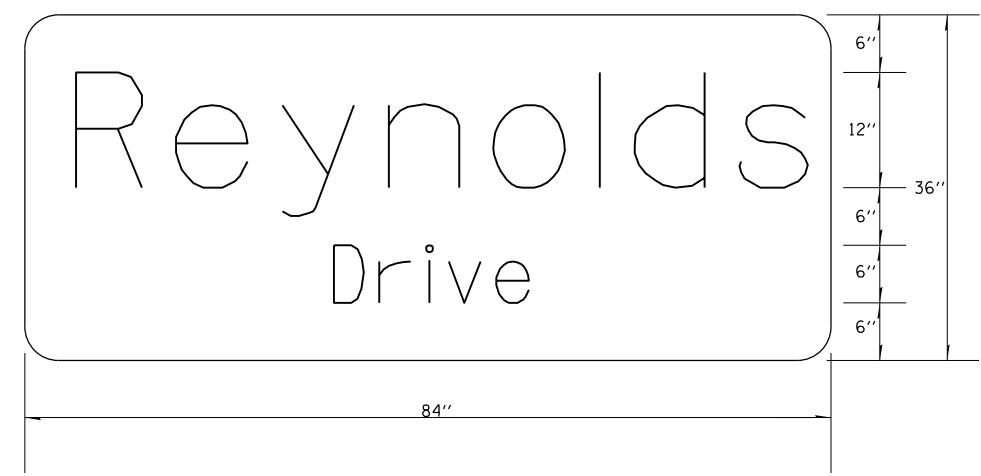
1. SIGN SHALL HAVE A BLACK REFLECTORIZED LEGEND AND BORDER ON A WHITE REFLECTORIZED BACKGROUND. ARROW IS YELLOW ON A BLACK BACKGROUND.
2. AP SHEETING.
3. SIGN TO BE INSTALLED DIRECTLY ADJACENT TO FYA SIGNAL HEAD ON MAST ARM.
4. ILLINOIS STANDARD R10-1109a SIGN.



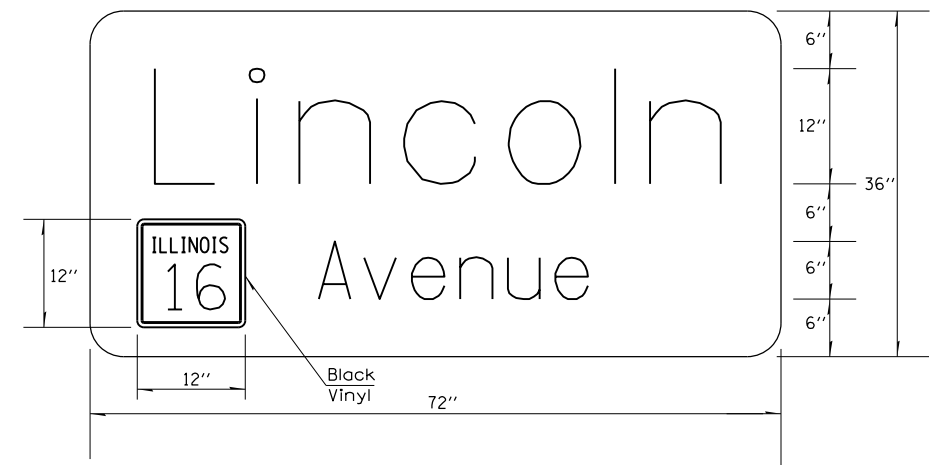
TO BE INSTALLED ON WESTBOUND MAST ARM (STA 480+37 41' LT)
TO BE INSTALLED ON EASTBOUND MAST ARM (STA 481+60 40' RT)



PHASE DESIGNATION DIAGRAM



TO BE INSTALLED ON WESTBOUND MAST ARM (STA 480+37 41' LT)
TO BE INSTALLED ON EASTBOUND MAST ARM (STA 481+60 40' RT)



TO BE INSTALLED ON SOUTHBOUND MAST ARM (STA 480+44 54' RT)
TO BE INSTALLED ON NORTHBOUND MAST ARM (STA 481+02 58' LT)

SIGN PANEL DETAILS

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INTERSECTION OF LINCOLN AVE (IL RTE 16) & REYNOLDS DRIVE			
DETAILS			
SCALE:	SHEET	OF SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
91	(51,512)RS-3	COLES	211	128
CONTRACT NO. 74694				
ILLINOIS FED. AID PROJECT				

BILL OF MATERIALS-REYNOLDS DRIVE

ITEM	UNIT	QUANTITY
SIGN PANEL-TYPE 1	EACH	12.5
SIGN PANEL-TYPE 2	SQ FT	78
SERVICE INSTALLATION, TYPE A	EACH	1
UNDERGROUND CONDUIT, PVC, 3/4" DIA	FOOT	111
UNDERGROUND CONDUIT, PVC, 1" DIA	FOOT	1995
UNDERGROUND CONDUIT, PVC, 1 1/2" DIA	FOOT	96
UNDERGROUND CONDUIT, PVC, 2" DIA	FOOT	146
UNDERGROUND CONDUIT, PVC, 4" DIA	FOOT	264
UNDERGROUND CONDUIT, PVC, 5" DIA	FOOT	8
HANDHOLE	EACH	3
DOUBLE HANDHOLE	EACH	1
GULFBOX JUNCTION	EACH	13
ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 3-1/C NO 8	FOOT	619
FULL-ACTUATED CONTROLLER AND TYPE IV CABINET	EACH	1
UNINTERRUPTABLE POWER SUPPLY, EXTENDED	EACH	1
TRANSCEIVER-FIBER OPTIC	EACH	1
FIBER OPTIC CABLE IN CONDUIT, NO 62.5/125, 6F	FOOT	1881
ELECTRIC CABLE IN CONDUIT, SIGNAL, NO 14 3C	FOOT	1648
ELECTRIC CABLE IN CONDUIT, SIGNAL, NO 14 5C	FOOT	2539
ELECTRIC CABLE IN CONDUIT, SIGNAL, NO 14 7C	FOOT	1790
ELECTRIC CABLE IN CONDUIT, LEAD-IN NO 14 1 PAIR	FOOT	2453
ELECTRIC CABLE IN CONDUIT, SERVICE, NO 6 2C	FOOT	25
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO 6 1C	FOOT	582
TRAFFIC SIGNAL POST, GALVANIZED STEEL 12 FT	EACH	2
TRAFFIC SIGNAL POST, GALVANIZED STEEL 14 FT	EACH	1
TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT	EACH	2
TRAFFIC SIGNAL POST, GALVANIZED STEEL 18 FT	EACH	1
PEDESTRIAN PUSH-BUTTON POST	EACH	5
STEEL MAST ARM ASSEMBLY AND POLE, 16 FT	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 34 FT	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE, 42 FT	EACH	2
CONCRETE FOUNDATION, TYPE A	FOOT	18
CONCRETE FOUNDATION, TYPE C	FOOT	3.5
CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	10
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	39.3
SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	8
SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 4-SECTION, MAST ARM MOUNTED	EACH	2
SIGNAL HEAD, POLYCARBONATE, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED	EACH	2
SIGNAL HEAD, POLYCARBONATE, LED, 2-FACE, 1-3 SECTION, 1-4 SECTION, BRACKET MOUNTED	EACH	2
PEDESTRIAN SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, BRACKET MOUNTED WITH COUNT DOWN TIMER	EACH	2
PEDESTRIAN SIGNAL HEAD, POLYCARBONATE, LED, 2-FACE, BRACKET MOUNTED WITH COUNT DOWN TIMER	EACH	3
TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	18
INDUCTIVE LOOP DETECTOR	EACH	10
DETECTOR LOOP, TYPE I	FOOT	1003
PEDESTRIAN PUSH-BUTTON	EACH	8

ITEM	UNIT	QUANTITY
TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1
REMOVE EXISTING SERVICE INSTALLATION	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING HANDHOLE	EACH	4
REMOVE EXISTING DOUBLE HANDHOLE	EACH	1
REMOVE EXISTING CONCRETE FOUNDATION	EACH	12
LUMINAIRE, LED, ROADWAY, OUTPUT DESIGNATION G	EACH	2

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	DATE -	REVISED -

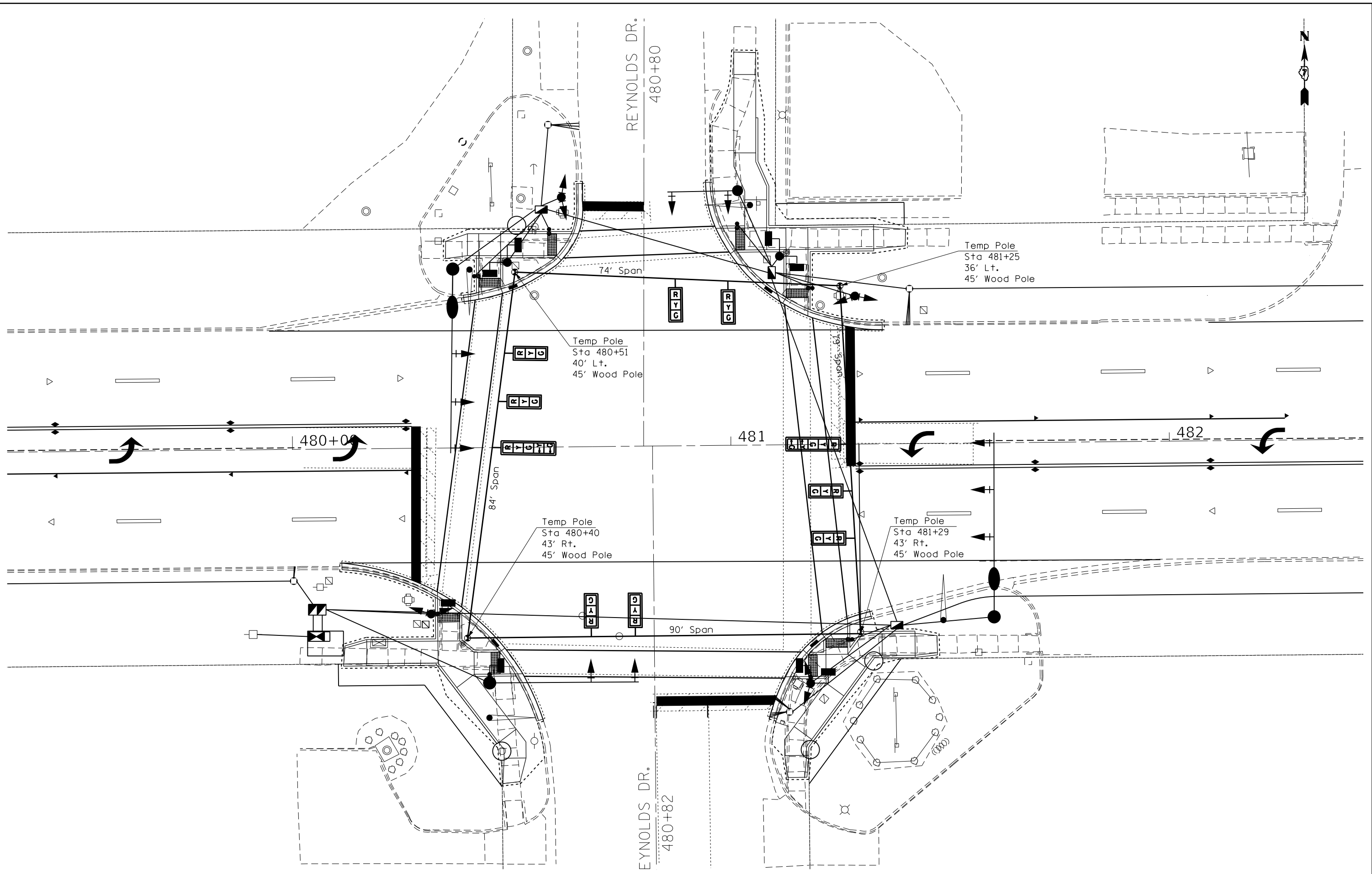
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**INTERSECTION OF LINCOLN AVE (IL ROUTE 16) & REYNOLDS DR
BILL OF MATERIALS**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
91	(51,51Z)RS-3	COLES	211	129
CONTRACT NO. 74694				
ILLINOIS FED. AID PROJECT				

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PLOT DATE = 10/15/2019	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**INTERSECTION OF LINCOLN AVE (IL RTE 16) & REYNOLDS DRIVE
 TEMPORARY SIGNALS**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
91	(51,51Z)RS-3	COLES	211	131
CONTRACT NO. 74694				
ILLINOIS FED. AID PROJECT				

REMOVAL ITEMS

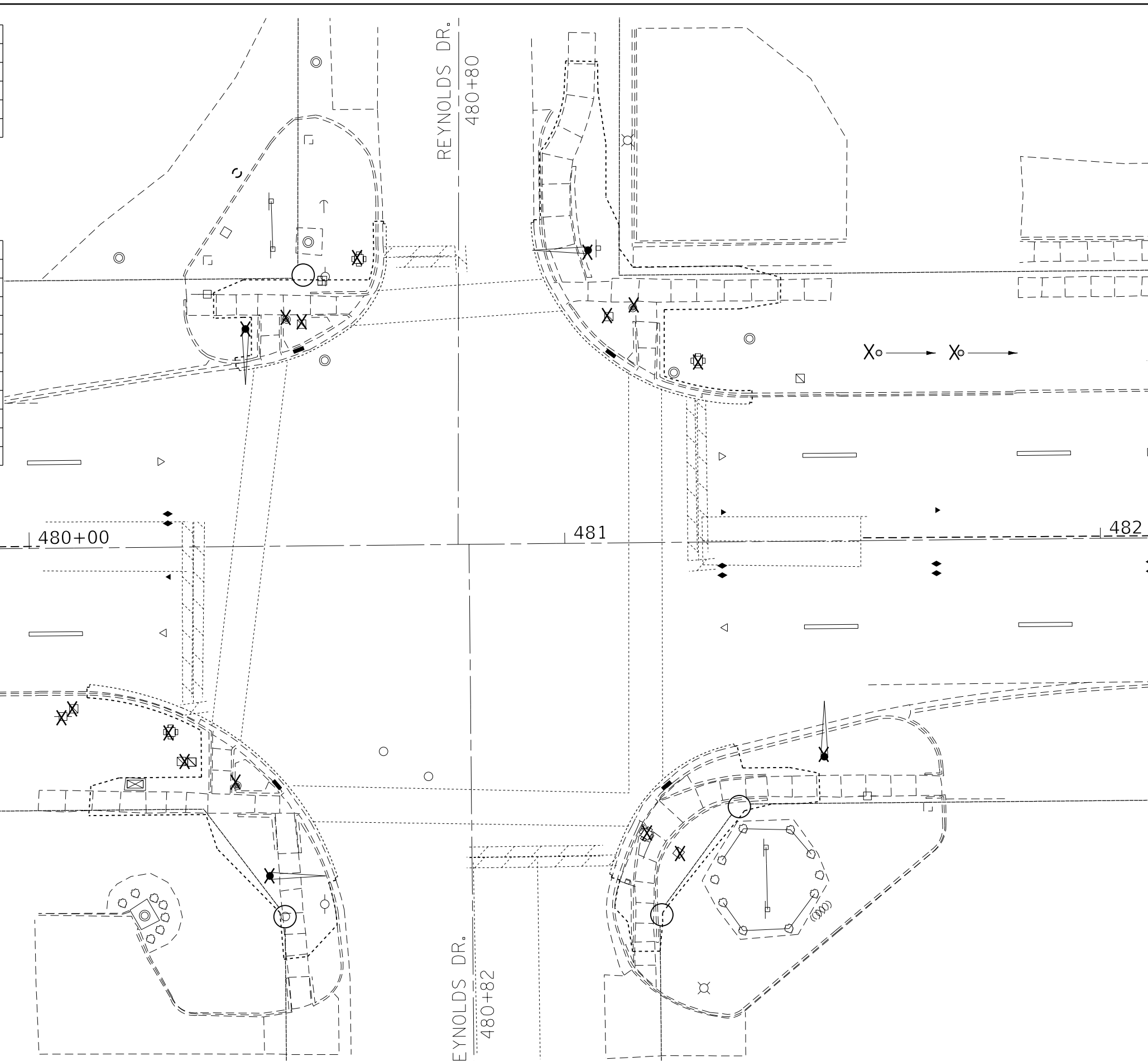
		Total	NW	NE	SE	SW
Remove Existing Service Installation	Each	1	-	-	-	1
Remove Existing Handhole	Each	4	1	1	1	1
Remove Existing Double Handhole	Each	1	-	-	-	1
Remove Existing Concrete Foundation	Each	12	3	3	2	4
Remove Existing Traffic Signal Equipment	Each	1				

• See individual items below.

REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT

(QUANTITY: 1 EACH)

	Total	NW	NE	SE	SW
Pedestrian Signal Head	14	4	2	4	4
Pedestrian Push-Button	8	2	2	2	2
Pedestrian Push Button Post	3	1	1	-	1
Traffic signal Head-3 Section BM	4	1	1	1	1
Traffic Signal Head-5 Section BM	2	-	1	-	1
Traffic Signal Head-3 Section MAM	6	1	2	1	2
Traffic Signal Head-5 Section MAM	2	1	-	1	-
Traffic Signal Post	4	1	1	1	1
Traffic Signal Mast Arm (Comb MA 2)	4	1	1	1	1
Traffic Signal Cabinet, Controller & Components	1	-	-	-	1
Gulfbox Junction	4	-	2	-	2



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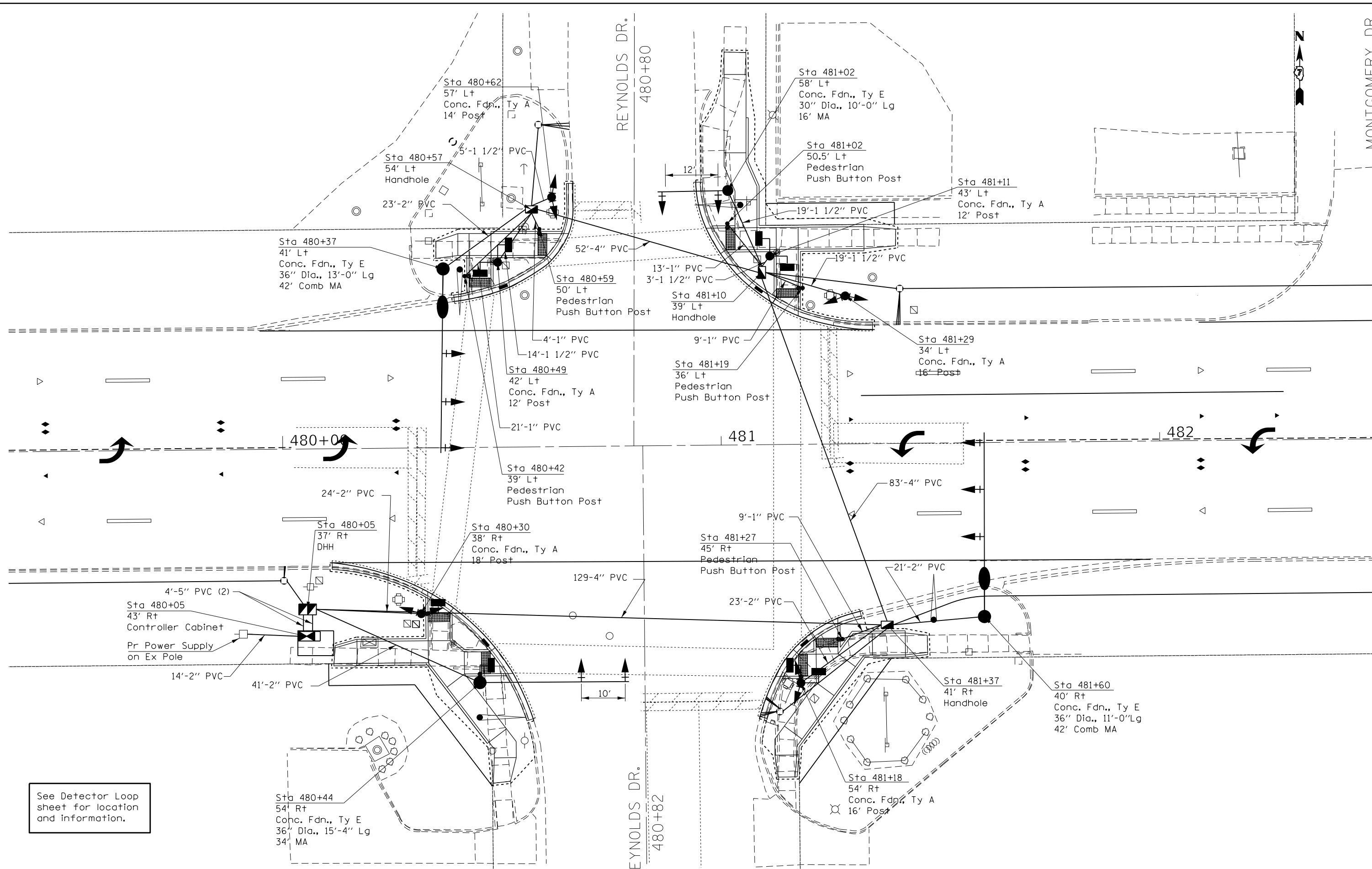
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INTERSECTION OF LINCOLN AVE (IL RTE 16) & REYNOLDS DRIVE
TRAFFIC SIGNAL REMOVAL ITEMS

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
91	(51,51Z)RS-3	COLES	211	132
CONTRACT NO. 74694				
ILLINOIS FED. AID PROJECT				

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See Detector Loop sheet for location and information.

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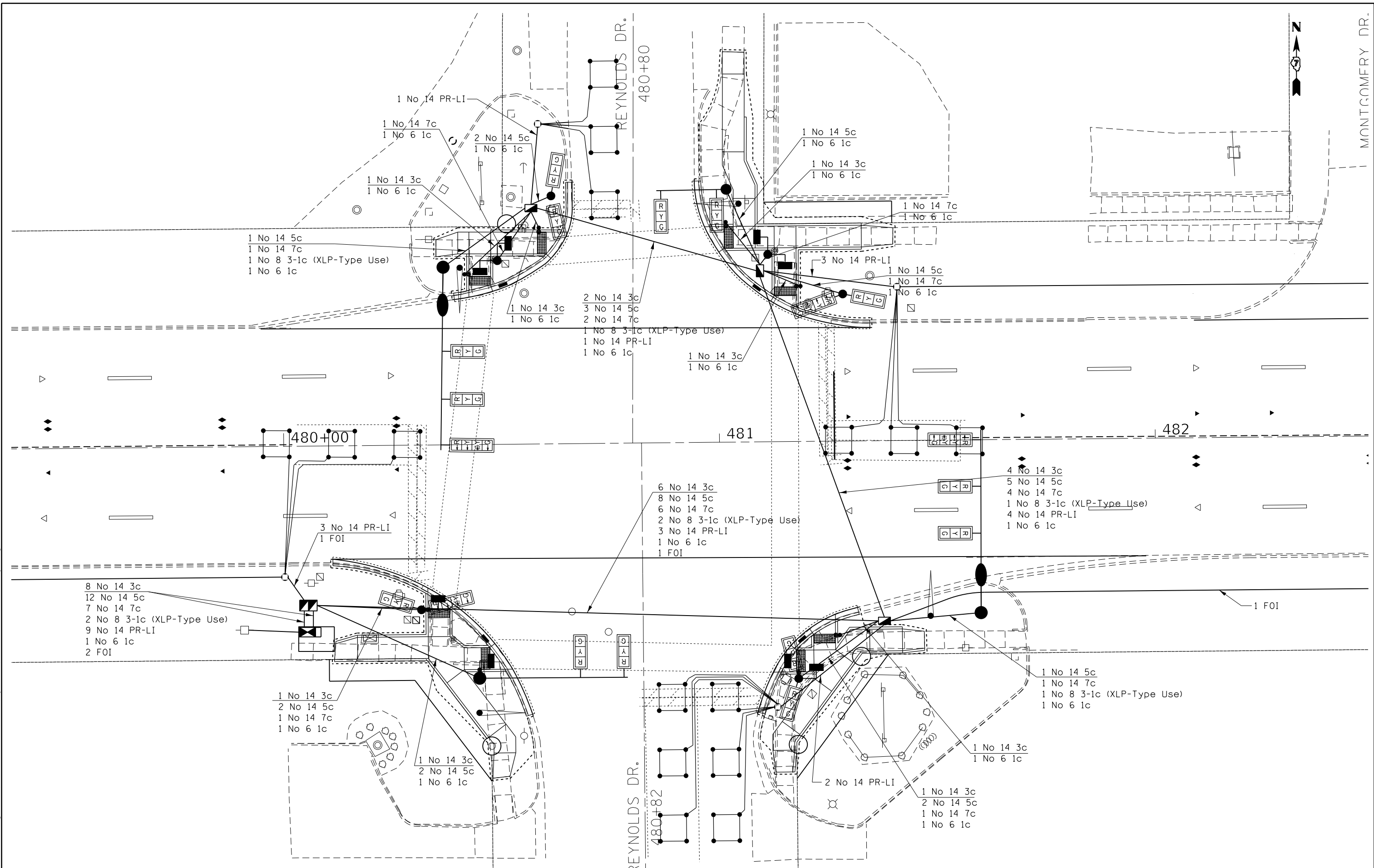
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

INTERSECTION OF LINCOLN AVE (IL RTE 16) & REYNOLDS DRIVE
 SIGNAL LAYOUT

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
91	(51,512)RS-3	COLES	211	133
CONTRACT NO. 74694				
ILLINOIS FED. AID PROJECT				

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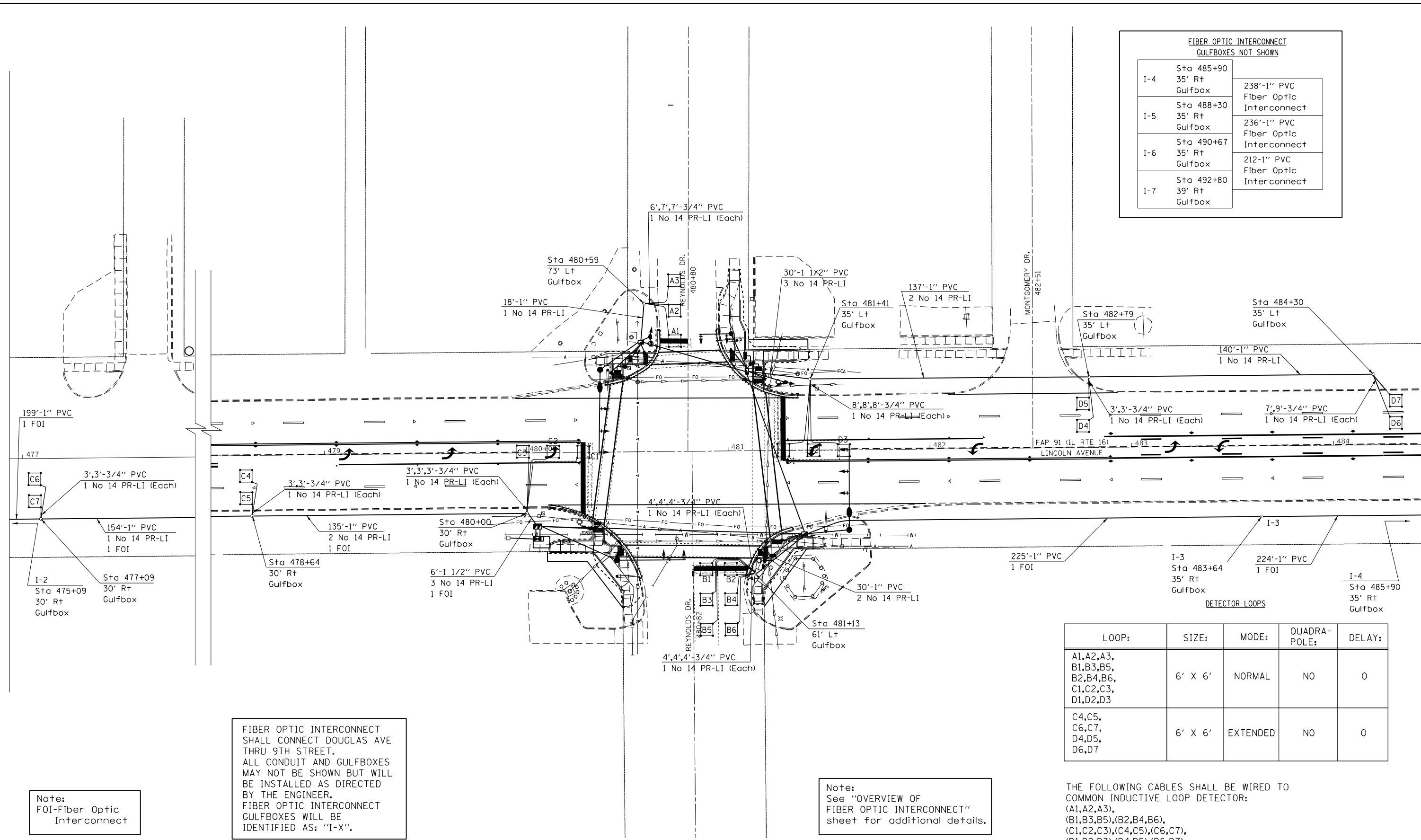
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PLOT DATE = 10/15/2019	DATE -	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

INTERSECTION OF LINCOLN AVE (IL RTE 16) & REYNOLDS DRIVE			
CABLE LAYOUT			
SCALE:	SHEET	OF SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
91	(51,512)RS-3	COLES	211	134
CONTRACT NO. 74694				
ILLINOIS FED. AID PROJECT				

FIBER OPTIC INTERCONNECT GULFBXES NOT SHOWN		
I-4	Sta 485+90 35' Rt Gulfbx	238'-1" PVC Fiber Optic Interconnect
I-5	Sta 488+30 35' Rt Gulfbx	236'-1" PVC Fiber Optic Interconnect
I-6	Sta 490+67 35' Rt Gulfbx	212'-1" PVC Fiber Optic Interconnect
I-7	Sta 492+80 39' Rt Gulfbx	



Note:
FOI-Fiber Optic
Interconnect

FIBER OPTIC INTERCONNECT SHALL CONNECT DOUGLAS AVE THRU 9TH STREET. ALL CONDUIT AND GULFBXES MAY NOT BE SHOWN BUT WILL BE INSTALLED AS DIRECTED BY THE ENGINEER. FIBER OPTIC INTERCONNECT GULFBXES WILL BE IDENTIFIED AS: "I-X".

Note:
See "OVERVIEW OF FIBER OPTIC INTERCONNECT" sheet for additional details.

LOOP:	SIZE:	MODE:	QUADRA-POLE:	DELAY:
A1,A2,A3, B1,B3,B5, B2,B4,B6, C1,C2,C3, D1,D2,D3	6' X 6'	NORMAL	NO	0
C4,C5, C6,C7, D4,D5, D6,D7	6' X 6'	EXTENDED	NO	0

THE FOLLOWING CABLES SHALL BE WIRED TO COMMON INDUCTIVE LOOP DETECTOR:
(A1,A2,A3),
(B1,B3,B5),(B2,B4,B6),
(C1,C2,C3),(C4,C5),(C6,C7),
(D1,D2,D3),(D4,D5),(D6,D7)

9 INDUCTIVE LOOP DETECTORS PLUS 1 ADDITIONAL
TOTAL 10 INDUCTIVE LOOP DETECTORS

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INTERSECTION OF LINCOLN AVE (IL RTE 16) & REYNOLDS DRIVE
DETECTOR LOOPS & FIBER OPTIC INTERCONNECT

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
91	(51,512)RS-3	COLES	211	135
CONTRACT NO. 74694				
ILLINOIS		FED. AID PROJECT		



Illinois Department of Transportation
Division of Highways
IDOT

SOIL BORING LOG

Page 1 of 1

Date 7/12/18

ROUTE FAP 91 (IL-16) DESCRIPTION Northeast Quad LOGGED BY E. Sandschafer
SECTION (50,51,51Z)RS-3 LOCATION IL 16 at Reynolds, SEC. 15, TWP. 12N, RNG. 9E, 3 PM
COUNTY Coles DRILLING METHOD Hollow stem auger & split spoon HAMMER TYPE Auto 140#

STRUCT. NO. Traffic Signal D E L C M Surface Water Elev. N/A ft D E L C M
Station 481+02 58' Lt. P O S I O Stream Bed Elev. N/A ft P O S I O
BORING NO. B1 - Reynolds T W S H S Qu T Groundwater Elev.:
Station 481+04 H S Qu T First Encounter Dry ft
Offset 74.0ft Lt Upon Completion Dry ft
Ground Surface Elev. 690.98 ft (ft) /6" (tsf) (%) After 24 Hrs.4' cave in @12' ft (ft) /6" (tsf) (%)

Topsoil. <u>690.73</u>														
Brown, CLAY LOAM						4	1.40	15						
					669.98	6	B							
Extent of Exploration.														
Benchmark: BM 502 SW quad of IL 16 and Reynolds, chiseled square on E. side of mast arm 61.5' S. of CL IL 16, 37' W. CL Reynolds														
Very stiff, moist.														
						4	3.09	20						
						6	B							
Stiff.														
						4	1.24	15						
						6	B							
						3								
						4	1.24	16						
						5	B							
						-10								
						4	1.03	15						
						5	B							
Very stiff, grey, till.														
						3								
						4	2.06	13						
						7	B							
Stiff.														
						-15								
						3	1.65	15						
						6	B							
						2								
						3	1.65	15						
						5	B							
						-20								

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer, E-Estimated)
Abbreviations W.O.H - Sampler Advanced By Weight of Hammer, W.O.P - Advanced by Weight of Pipe, B.S. - Before Seating
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) BBS, Form 137 (Rev. 8-99)



Illinois Department of Transportation
Division of Highways
IDOT

SOIL BORING LOG

Page 1 of 1

Date 7/12/18

ROUTE FAP 91 (IL-16) DESCRIPTION Southeast Quad LOGGED BY E. Sandschafer
SECTION (50,51,51Z)RS-3 LOCATION IL 16 at Reynolds, SEC. 15, TWP. 12N, RNG. 9E, 3 PM
COUNTY Coles DRILLING METHOD Hollow stem auger & split spoon HAMMER TYPE Auto 140#

STRUCT. NO. Traffic Signal D E L C M Surface Water Elev. N/A ft D E L C M
Station 481+60 40' Rt. P O S I O Stream Bed Elev. N/A ft P O S I O
BORING NO. B2 - Reynolds T W S H S Qu T Groundwater Elev.:
Station 481+55 H S Qu T First Encounter Dry ft
Offset 42.0ft Rt Upon Completion Dry ft
Ground Surface Elev. 690.15 ft (ft) /6" (tsf) (%) After 24 Hrs.4' cave in @12.5' ft (ft) /6" (tsf) (%)

Topsoil. <u>689.99</u>														
Brown, CLAY LOAM						3	1.20	14						
					669.15	6	B							
Extent of Exploration.														
Benchmark: BM 502 SW quad of IL 16 and Reynolds, chiseled square on E. side of mast arm 61.5' S. of CL IL 16, 37' W. CL Reynolds														
Very stiff, moist.														
						3								
						4	2.06	22						
						5	B							
Stiff, moist, brown, SILTY CLAY LOAM														
						3								
						4	1.40	20						
						5	B							
						3								
						4	2.06	19						
						6	B							
Stiff, moist, brown, CLAY LOAM														
						3								
						4	1.81	15						
						5	B							
						2								
Stiff, moist, grey, SILTY LOAM														
						4	1.40	17						
						7	B							
						4								
						5	1.98	13						
						6	B							
Stiff, moist, grey, CLAY LOAM TILL.														
						2								
						4	1.20	15						
						6	B							
						-20								

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer, E-Estimated)
Abbreviations W.O.H - Sampler Advanced By Weight of Hammer, W.O.P - Advanced by Weight of Pipe, B.S. - Before Seating
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) BBS, Form 137 (Rev. 8-99)

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	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INTERSECTION OF LINCOLN AVE (IL RTE 16) & REYNOLDS DRIVE
BORING LOGS

SCALE: SHEET 1 OF 2 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
91	(51,51Z)RS-3	COLES	211	136
CONTRACT NO. 74694				
ILLINOIS FED. AID PROJECT				



SOIL BORING LOG

ROUTE FAP 91 (IL-16) DESCRIPTION Southwest Quad LOGGED BY E. Sandschafer

SECTION (50,51,51Z)RS-3 LOCATION IL 16 at Reynolds, SEC. 15, TWP. 12N, RNG. 9E, 3 PM

COUNTY Coles DRILLING METHOD Hollow stem auger & split spoon HAMMER TYPE Auto 140#

STRUCT. NO. Traffic Signal D E L C M
Station 480+44 54' Rt. P O S O I
BORING NO. B3 - Reynolds H S Qu T
Station 480+61
Offset 70.0ft Rt
Ground Surface Elev. 689.58 ft (ft) /6" (tsf) (%)

DEPTH (ft)	DIAMETER (in)	UNIT WEIGHT (pcf)	MOISTURE (%)	DESCRIPTION	DEPTH (ft)	DIAMETER (in)	UNIT WEIGHT (pcf)	MOISTURE (%)
1.375				asphalt pavement.	8	1.57	14	
8.75				concrete pavement.	11	S		
				Brown, CLAY LOAM				
				Medium, moist.	6	6		
					10	1.48	15	
					14	S		
				Medium, moist, brown, SANDY CLAY LOAM	6	6		
					6	0.54	17	
					4	B		
				Stiff, wet, brown, SANDY LOAM	2			
					2	1.80	14	
				Brown, SANDY CLAY LOAM	6	B		
				Medium, moist, brown, SANDY CLAY LOAM	3			
				Rock in sampler.	3	1.24	12	
					5	B		
				With gravel, large rock in sampler.				
					8	NT	14	
					9	NT		
				Stiff, moist, grey, CLAY LOAM.	3			
					4	1.90	14	
					7	B		
				Very stiff, moist, grey, SILTY CLAY LOAM.	6			
					7	2.40	12	
					10	S		
					6			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer, E-Estimated)
Abbreviations W.O.H - Sampler Advanced By Weight of Hammer, W.O.P - Advanced by Weight of Pipe, B.S. - Before Seating
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) BBS, Form 137 (Rev. 8-99)

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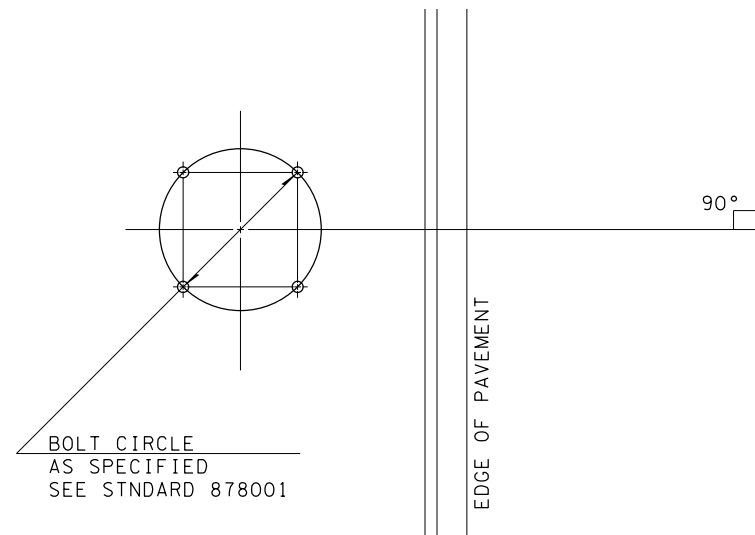
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DEPARTMENT OF TRANSPORTATION

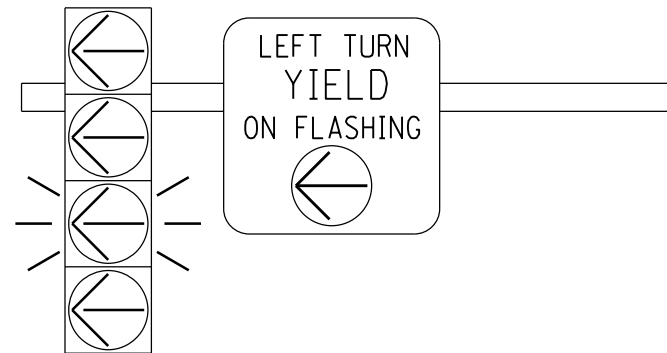
INTERSECTION OF LINCOLN AVE (IL RTE 16) & REYNOLDS DRIVE
BORING LOGS

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
91	(51,51Z)RS-3	COLES	211	137
CONTRACT NO. 74694				
ILLINOIS FED. AID PROJECT				

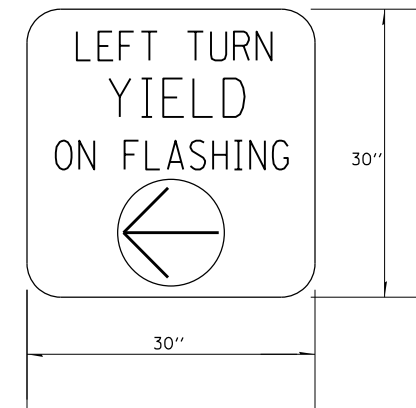


DETAIL OF MAST ARM FOUNDATION
BOLT PATTERN

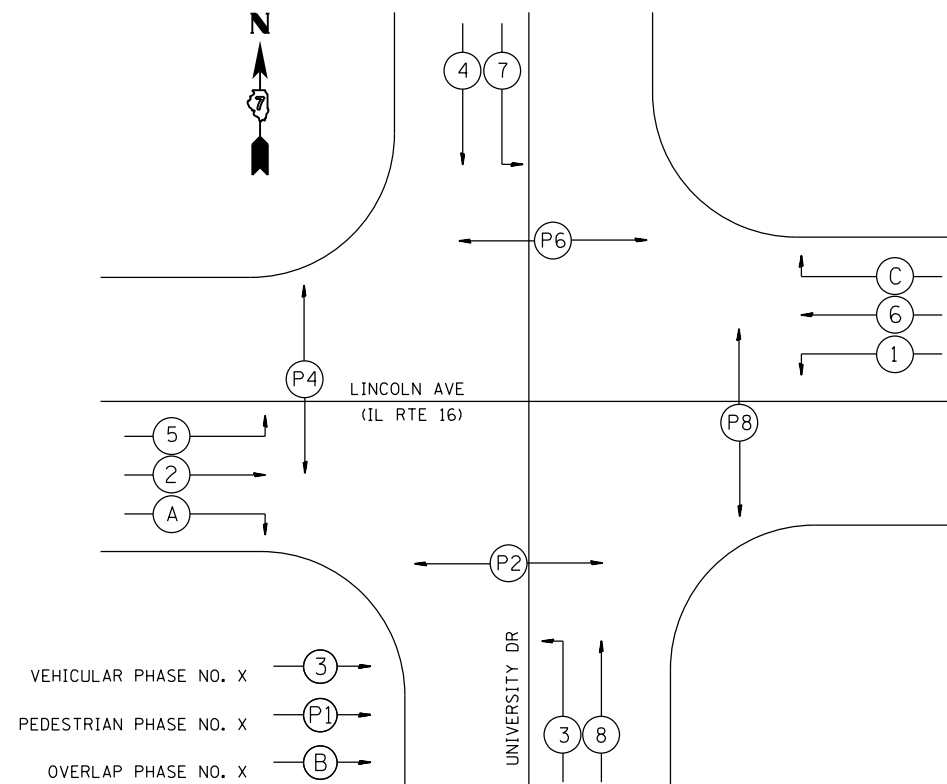


FLASHING YELLOW ARROW
SIGN PANEL DETAILS

1. SIGN SHALL HAVE A BLACK REFLECTORIZED LEGEND AND BORDER ON A WHITE REFLECTORIZED BACKGROUND. ARROW IS YELLOW ON A BLACK BACKGROUND.
2. AP SHEETING.
3. SIGN TO BE INSTALLED DIRECTLY ADJACENT TO FYA SIGNAL HEAD ON MAST ARM.
4. ILLINOIS STANDARD R10-1109a SIGN.



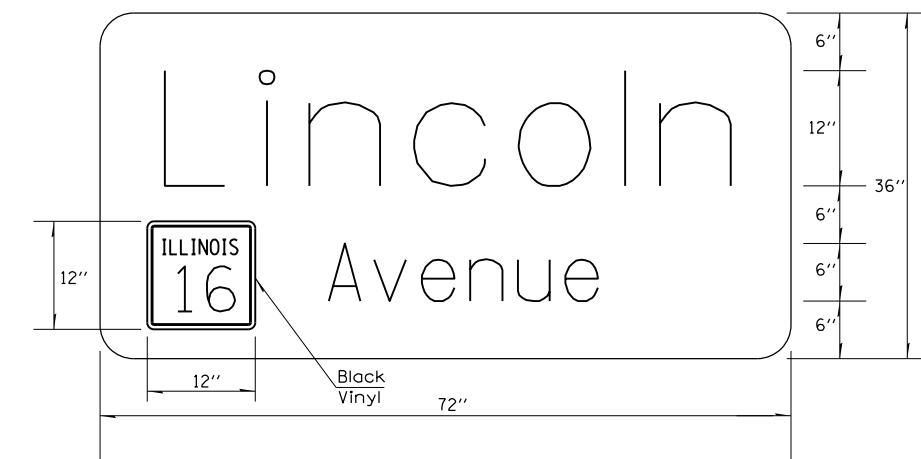
TO BE INSTALLED ON WESTBOUND MAST ARM (STA 496+75 41' LT)
TO BE INSTALLED ON EASTBOUND MAST ARM (STA 498+10 41' RT)
TO BE INSTALLED ON SOUTHBOUND MAST ARM (STA 497+08 66' RT)
TO BE INSTALLED ON NORTHBOUND MAST ARM (STA 497+76 77' LT)



PHASE DESIGNATION DIAGRAM



TO BE INSTALLED ON WESTBOUND MAST ARM (STA 496+75 41' LT)
TO BE INSTALLED ON EASTBOUND MAST ARM (STA 498+10 41' RT)



TO BE INSTALLED ON SOUTHBOUND MAST ARM (STA 497+08 66' RT)
TO BE INSTALLED ON NORTHBOUND MAST ARM (STA 497+76 77' LT)

SIGN PANEL DETAILS

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INTERSECTION OF LINCOLN AVE (IL RTE 16) & UNIVERSITY DRIVE
DETAILS

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
91	(51,512)RS-3	COLES	211	138
CONTRACT NO. 74694				
ILLINOIS		FED. AID PROJECT		

BILL OF MATERIALS-UNIVERSITY DRIVE

ITEM	UNIT	QUANTITY
SIGN PANEL-TYPE 1	EACH	25
SIGN PANEL-TYPE 2	SQ FT	78
SERVICE INSTALLATION, TYPE A	EACH	1
UNDERGROUND CONDUIT, PVC, 3/4" DIA	FOOT	207
UNDERGROUND CONDUIT, PVC, 1" DIA	FOOT	1580
UNDERGROUND CONDUIT, PVC, 1 1/2" DIA	FOOT	35
UNDERGROUND CONDUIT, PVC, 2" DIA	FOOT	144
UNDERGROUND CONDUIT, PVC, 4" DIA	FOOT	277
UNDERGROUND CONDUIT, PVC, 5" DIA	FOOT	9
HANDHOLE	EACH	3
DOUBLE HANDHOLE	EACH	1
GULFBOX JUNCTION	EACH	10
MASTER CONTROLLER IN TYPE V CABINET	EACH	1
UNINTERRUPTABLE POWER SUPPLY, EXTENDED	EACH	1
TRANSCEIVER-FIBER OPTIC	EACH	1
FIBER OPTIC CABLE IN CONDUIT, NO 62.5/125, 6F	FOOT	1615
ELECTRIC CABLE IN CONDUIT, SIGNAL, NO 14 3C	FOOT	1178
ELECTRIC CABLE IN CONDUIT, SIGNAL, NO 14 5C	FOOT	2288
ELECTRIC CABLE IN CONDUIT, SIGNAL, NO 14 7C	FOOT	1597
ELECTRIC CABLE IN CONDUIT, LEAD-IN NO 14 1 PAIR	FOOT	1890
ELECTRIC CABLE IN CONDUIT, SERVICE, NO 6 2C	FOOT	31
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO 6 1C	FOOT	464
TRAFFIC SIGNAL POST, GALVANIZED STEEL 12 FT	EACH	2
TRAFFIC SIGNAL POST, GALVANIZED STEEL 18 FT	EACH	4
PEDESTRIAN PUSH-BUTTON POST	EACH	2
STEEL MAST ARM ASSEMBLY AND POLE, 28 FT	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 32 FT	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 42 FT	EACH	2
CONCRETE FOUNDATION, TYPE A	FOOT	18
CONCRETE FOUNDATION, TYPE C	FOOT	3.5
CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	10
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	37
SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	2
SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	6
SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 4-SECTION, MAST ARM MOUNTED	EACH	4
SIGNAL HEAD, POLYCARBONATE, LED, 2-FACE, 1-3 SECTION, 1-4 SECTION, BRACKET MOUNTED	EACH	4
PEDESTRIAN SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, BRACKET MOUNTED WITH COUNT DOWN TIMER	EACH	6
PEDESTRIAN SIGNAL HEAD, POLYCARBONATE, LED, 2-FACE, BRACKET MOUNTED WITH COUNT DOWN TIMER	EACH	1
TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	20
INDUCTIVE LOOP DETECTOR	EACH	12
DETECTOR LOOP, TYPE I	FOOT	1259

ITEM	UNIT	QUANTITY
TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1
REMOVE EXISTING SERVICE INSTALLATION	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING HANDHOLE	EACH	3
REMOVE EXISTING DOUBLE HANDHOLE	EACH	1
REMOVE EXISTING CONCRETE FOUNDATION	EACH	12
ACCESSIBLE PEDESTRIAN SIGNALS	EACH	8

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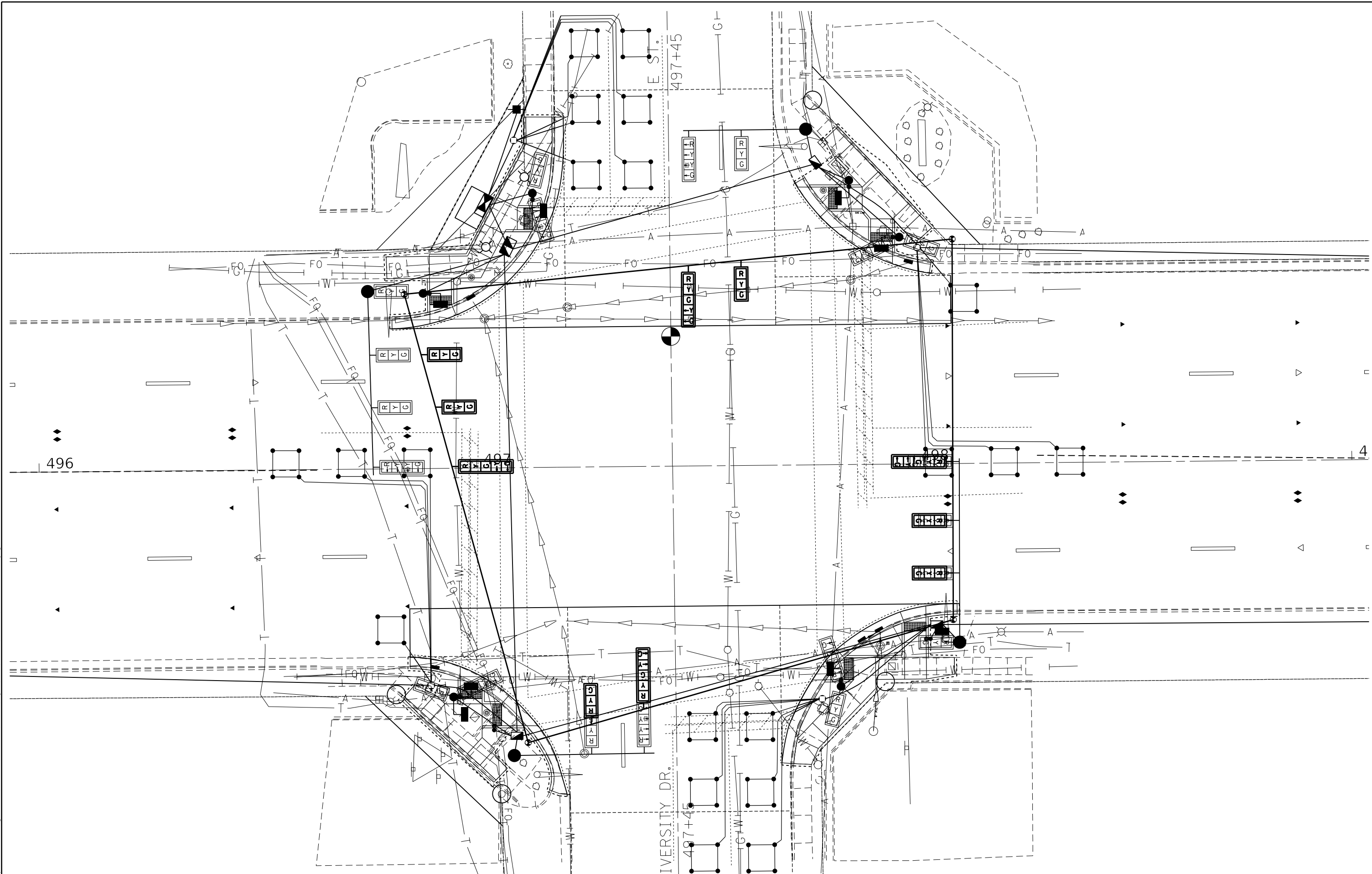
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**INTERSECTION OF LINCOLN AVE (IL ROUTE 16) & UNIVERSITY DR
BILL OF MATERIALS**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
91	(51,51Z)RS-3	COLES	211	139
CONTRACT NO. 74694				
ILLINOIS FED. AID PROJECT				

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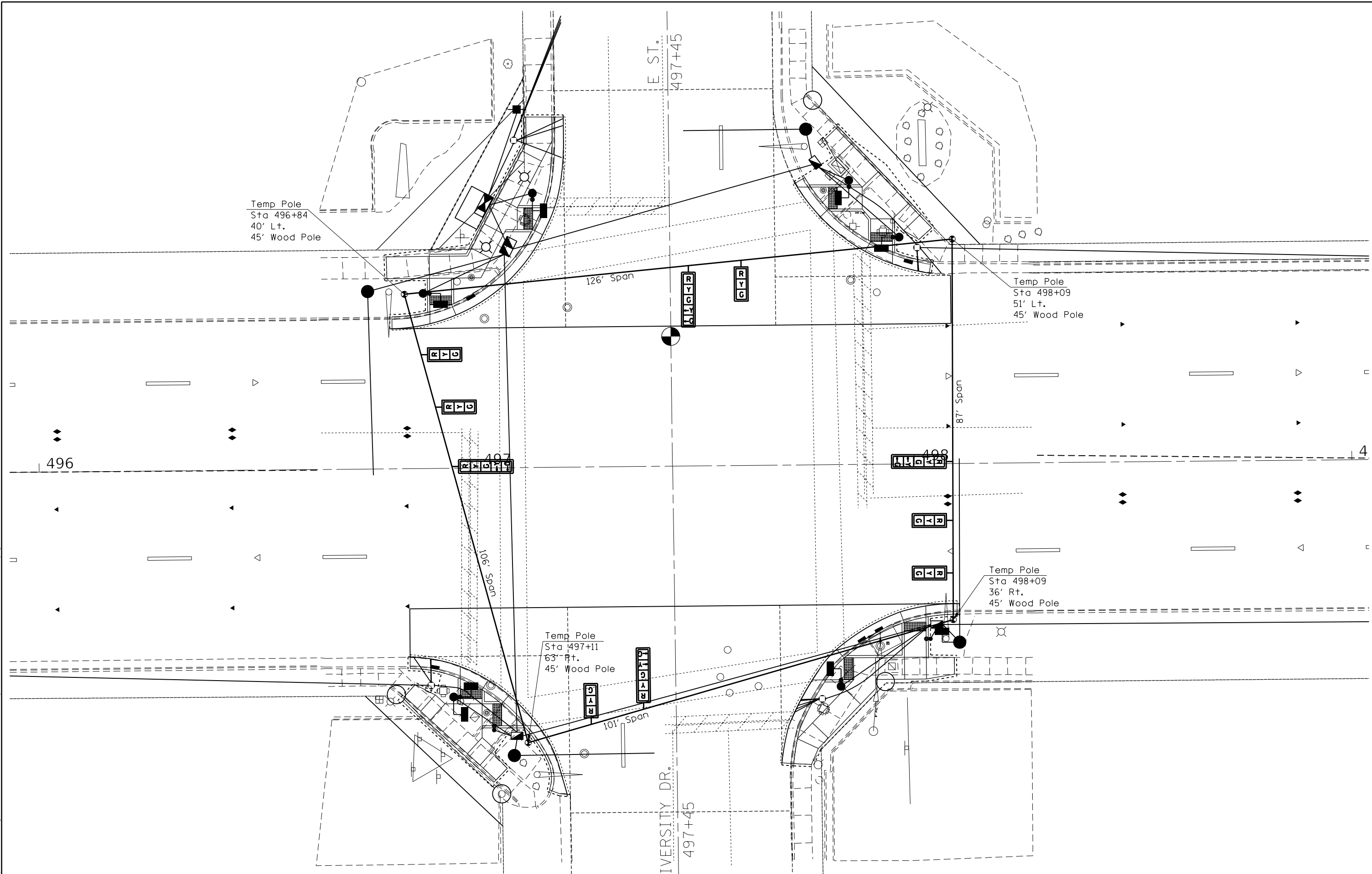
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**INTERSECTION OF LINCOLN AVE (IL RTE 16) & UNIVERSITY DRIVE
 EXISTING UTILITY LAYOUT**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
91	(51.51Z)RS-3	COLES	211	140
CONTRACT NO. 74694				
ILLINOIS FED. AID PROJECT				

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 CONTRACT: 74694
 SHEET: 141



USER NAME = steffemk	DESIGNED -	REVISED -
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PLOT DATE = 10/15/2019	DATE -	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

INTERSECTION OF LINCOLN AVE (IL RTE 16) & UNIVERSITY DRIVE
 TEMPORARY SIGNALS

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
91	(51,51Z)RS-3	COLES	211	141
CONTRACT NO. 74694				
ILLINOIS FED. AID PROJECT				

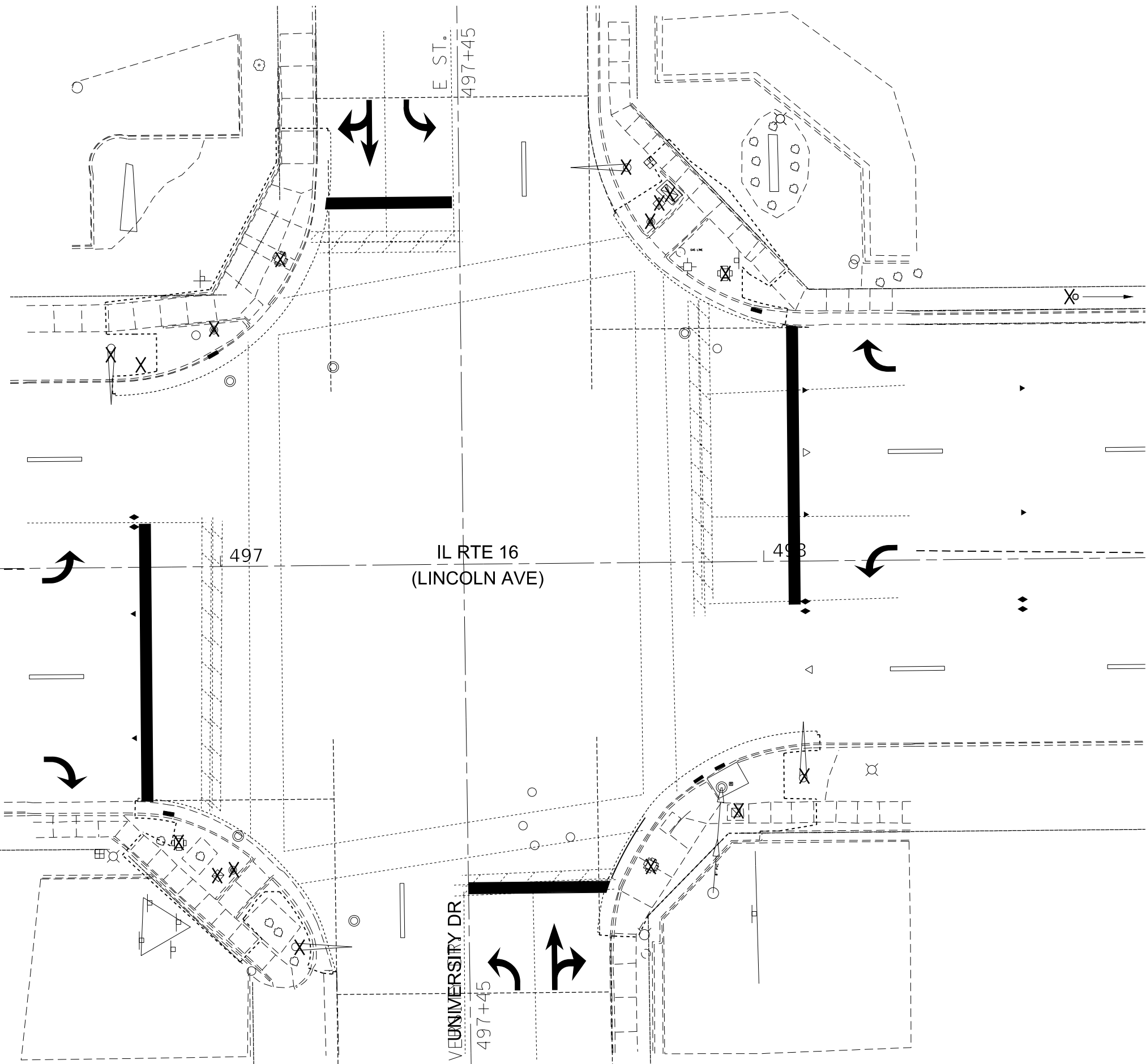
REMOVAL ITEMS

	Total	NW	NE	SE	SW
Remove Existing Service Installation	Each 1	-	1	-	-
Remove Existing Handhole	Each 3	-	1	1	1
Remove Existing Double Handhole	Each 1	-	1	-	-
Remove Existing Concrete Foundation	Each 12	3	4	2	3
Remove Existing Traffic Signal Equipment	Each 1				

• See individual items below.

REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
(QUANTITY: 1 EACH)

	Total	NW	NE	SE	SW
Pedestrian Signal Head	8	2	2	2	2
Pedestrian Push-Button	8	2	2	2	2
Pedestrian Push Button Post	3	1	1	-	1
Traffic signal Head-3 Section BM	4	1	1	1	1
Traffic Signal Head-5 Section BM	4	1	1	1	1
Traffic Signal Head-3 Section MAM	4	1	1	1	1
Traffic Signal Head-5 Section MAM	4	1	1	1	1
Traffic Signal Post	4	1	1	1	1
Traffic Signal Mast Arm	4	1	1	1	1
Traffic Signal Cabinet, Controller & Components	1	-	1	-	-
Gulfbox Junction	2	-	1	-	1



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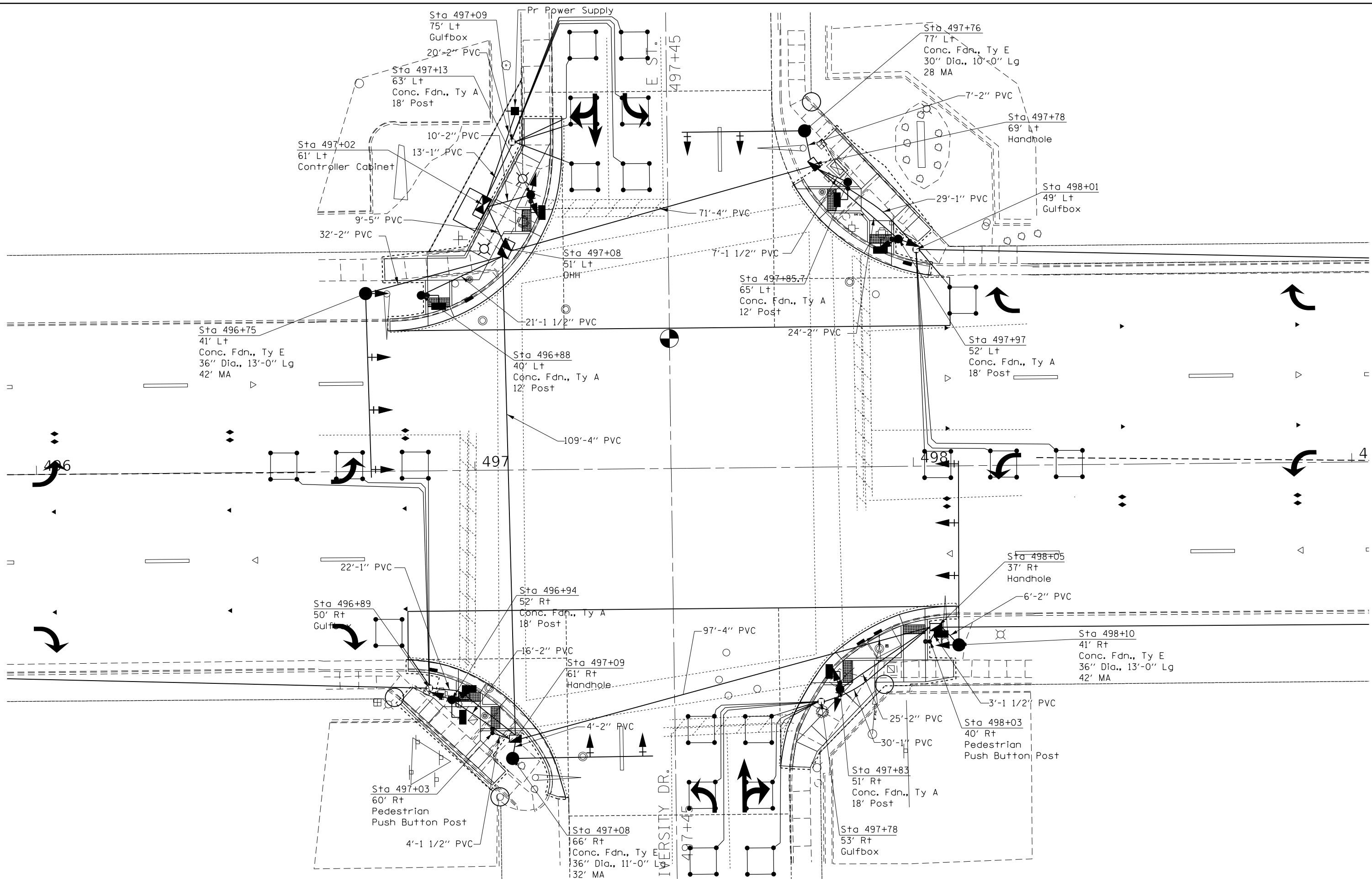
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INTERSECTION OF LINCOLN AVE (IL RTE 16) & UNIVERSITY DRIVE
TRAFFIC SIGNAL REMOVAL ITEMS

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
91	(51,51Z)RS-3	COLES	211	142
CONTRACT NO. 74694				
ILLINOIS FED. AID PROJECT				

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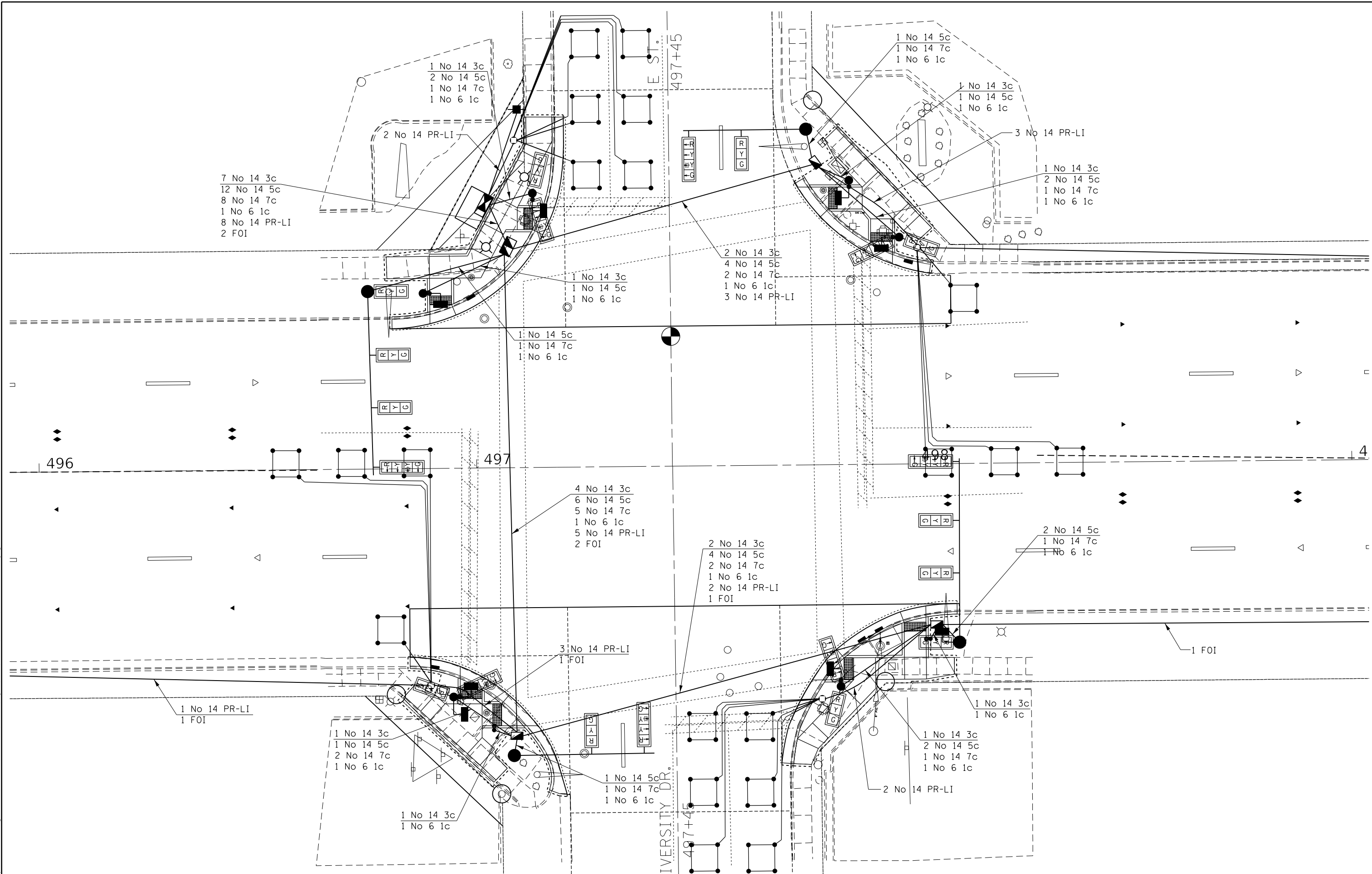
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**INTERSECTION OF LINCOLN AVE (IL RTE 16) & UNIVERSITY DRIVE
 SIGNAL LAYOUT**

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
91	(51.512)RS-3	COLES	211	143
CONTRACT NO. 74694				
		ILLINOIS	FED. AID PROJECT	

SCALE: SHEET OF SHEETS STA. TO STA.

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PLOT DATE = 10/15/2019	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**INTERSECTION OF LINCOLN AVE (IL RTE 16) & UNIVERSITY DRIVE
 CABLE LAYOUT**

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
91	(51,51Z)RS-3	COLES	211	144
CONTRACT NO. 74694				
ILLINOIS FED. AID PROJECT				

SCALE: SHEET OF SHEETS STA. TO STA.



SOIL BORING LOG

ROUTE FAP 91 (IL-16) DESCRIPTION Northwest Quad LOGGED BY E. Sandschafer

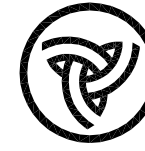
SECTION (50,51,51Z)RS-3 LOCATION IL 16 at University, SEC. 15, TWP. 12N, RNG. 9E, 3 PM

COUNTY Coles DRILLING METHOD Hollow stem auger & split spoon HAMMER TYPE Auto 140#

STRUCT. NO. <u>Traffic Signal</u>	D	B	U	M	Surface Water Elev. <u>N/A</u> ft	D	B	U	M
Station <u>496+75 41' Lt.</u>	E	L	C	O	Stream Bed Elev. <u>N/A</u> ft	E	L	C	O
BORING NO. <u>B1 - University</u>	P	O	S	I	Groundwater Elev.:	P	O	S	I
Station <u>496+77</u>	T	W	Qu	S	▼ First Encounter <u>Dry</u> ft	T	W	Qu	S
Offset <u>43.0ft Lt</u>	H	S		T	▼ Upon Completion <u>Dry</u> ft	H	S		T
Ground Surface Elev. <u>691.53</u> ft	(ft)	/6"	(tsf)	(%)	▼ After <u>240</u> Hrs. <u>685.5</u> ft	(ft)	/6"	(tsf)	(%)

Topsoil. <u>691.23</u>					Medium, wet, grey, fine graded, SAND, 13.3% passing -#200 (continued)	7			14
Very stiff to Hard, damp, brown, CLAY LOAM					Stiff, damp, grey, CLAY LOAM	9			
		3				4			
Very Stiff, brown marbled grey.		3	4.0	12		4	1.65	14	
		2	P			6	B		
		3			medium	5			
		-5				-25			
		5	3.3	15		6	0.82	16	
		9	B			6	B		
		3			stiff, rock at front of sampler.	2			
Stiff, damp, brown, SILTY CLAY LOAM		3				3	1.5	15	
		4	1.1	15		4	P		
		7	B						
		3			Extent of Exploration.	0			
Stiff, damp, grey, SANDY CLAY LOAM TILL		-10			Benchmark: BM 503 SE quad of University Dr. and IL 16, chisled x on top bolt of W. side of fire hydrant 33' E of CL of E. Street, 68' S. of CL IL 16	2	0.54	16	
		5	1.4	12		3	B		
		6	B						
		3			Rock at front of sampler shoe.	5			
		-15				-35			
		6	1.5	9					
		6	P						
		3							
		4	1.03	15					
		6	B						
		3							
		-20				-40			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer, E-Estimated) Abbreviations W.O.H - Sampler Advanced By Weight of Hammer, W.O.P - Advanced by Weight of Pipe, B.S. - Before Seating The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) BBS, Form 137 (Rev. 8-99)



SOIL BORING LOG

ROUTE FAP 91 (IL-16) DESCRIPTION Southeast Quad LOGGED BY E. Sandschafer

SECTION (50,51,51Z)RS-3 LOCATION IL 16 at University, SEC. 15, TWP. 12N, RNG. 9E, 3 PM

COUNTY Coles DRILLING METHOD Hollow stem auger & split spoon HAMMER TYPE Auto 140#

STRUCT. NO. <u>Traffic Signal</u>	D	B	U	M	Surface Water Elev. <u>N/A</u> ft	D	B	U	M
Station <u>498+10 41' Rt.</u>	E	L	C	O	Stream Bed Elev. <u>N/A</u> ft	E	L	C	O
BORING NO. <u>B2 - University</u>	P	O	S	I	Groundwater Elev.:	P	O	S	I
Station <u>498+20</u>	T	W	Qu	S	▼ First Encounter <u>Dry</u> ft	T	W	Qu	S
Offset <u>300.0ft Rt</u>	H	S		T	▼ Upon Completion <u>Dry</u> ft	H	S		T
Ground Surface Elev. <u>690.89</u> ft	(ft)	/6"	(tsf)	(%)	▼ After <u>240</u> Hrs. <u>684.9</u> ft	(ft)	/6"	(tsf)	(%)

1.5" asphalt pavement. <u>690.79</u>									4	1.11	13
11" concrete pavement. <u>689.89</u>									5	B	
6" crushed stone subbase (CA 6). <u>689.39</u>											
Medium, damp, brown, CLAY LOAM					Extent of Exploration.						
					Benchmark: BM 503 SE quad of University Dr. and IL 16, chisled x on top bolt of W. side of fire hydrant 33' E of CL of E. Street, 68' S. of CL IL 16						
Stiff		3				3					
		-5				-25					
		2	0.66	18							
		3	B								
		2									
		3	1.65	14							
		5	B								
Grey		4									
		-10				-30					
		5	1.48	13							
		6	B								
		3									
		4	1.73	14							
		5	B								
		3									
		-15				-35					
		4	1.24	14							
		5	B								
		2									
		4	1.24	14							
		6	B								
		3									
		-20				-40					

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer, E-Estimated) Abbreviations W.O.H - Sampler Advanced By Weight of Hammer, W.O.P - Advanced by Weight of Pipe, B.S. - Before Seating The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) BBS, Form 137 (Rev. 8-99)

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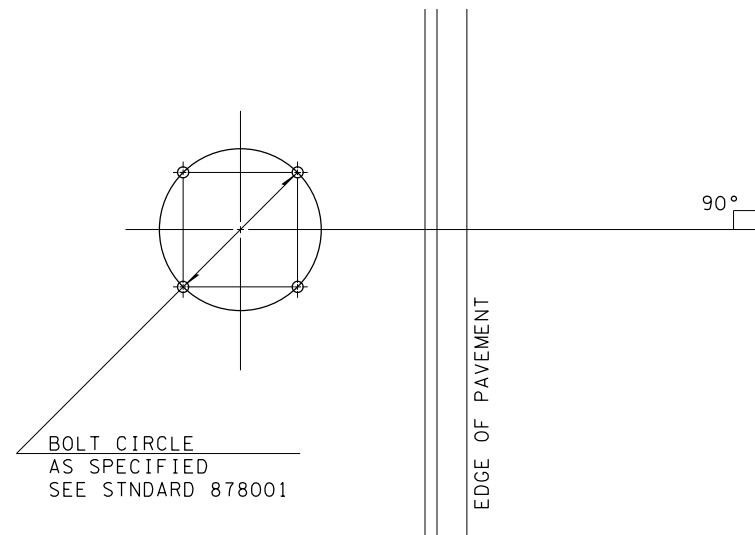
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

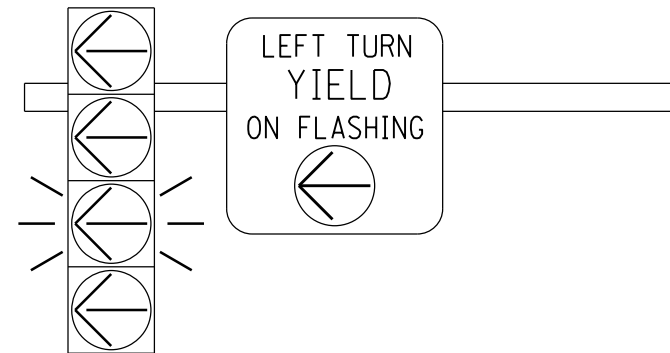
INTERSECTION OF LINCOLN AVE (IL RTE 16) & UNIVERSITY DRIVE
BORING LOGS

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
91	(51,51Z)RS-3	COLES	211	146
CONTRACT NO. 74694			ILLINOIS FED. AID PROJECT	

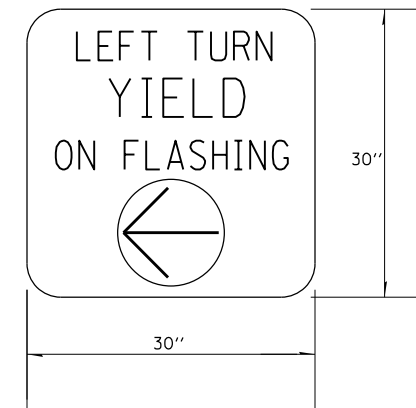


DETAIL OF MAST ARM FOUNDATION
BOLT PATTERN

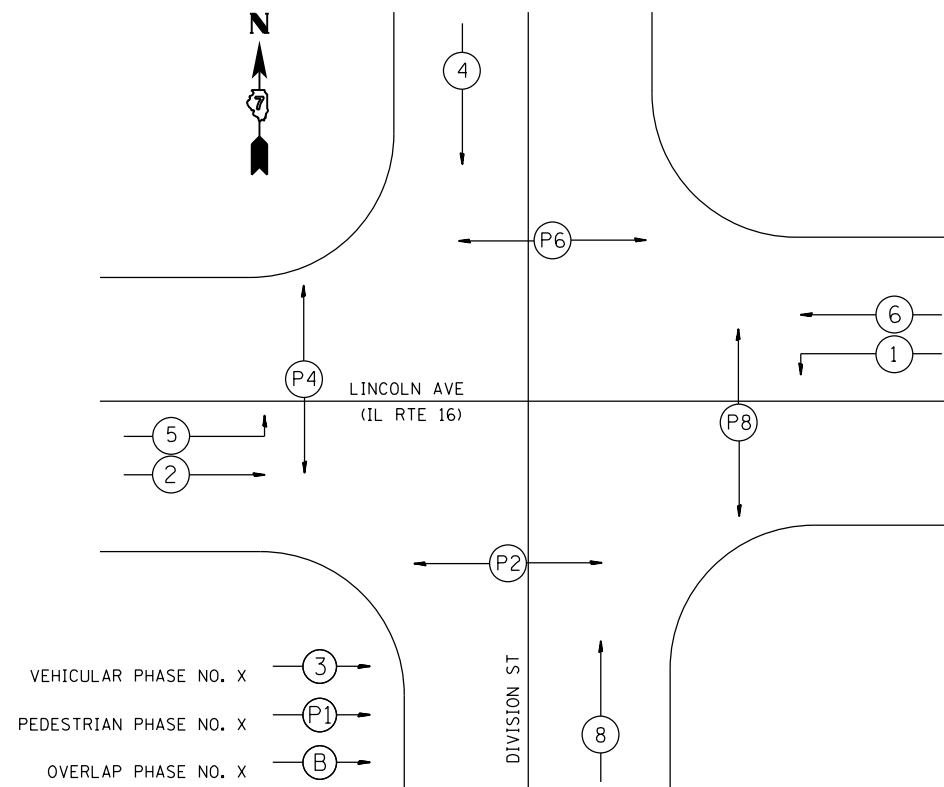


FLASHING YELLOW ARROW
SIGN PANEL DETAILS

1. SIGN SHALL HAVE A BLACK REFLECTORIZED LEGEND AND BORDER ON A WHITE REFLECTORIZED BACKGROUND. ARROW IS YELLOW ON A BLACK BACKGROUND.
2. AP SHEETING.
3. SIGN TO BE INSTALLED DIRECTLY ADJACENT TO FYA SIGNAL HEAD ON MAST ARM.
4. ILLINOIS STANDARD R10-1109a SIGN.



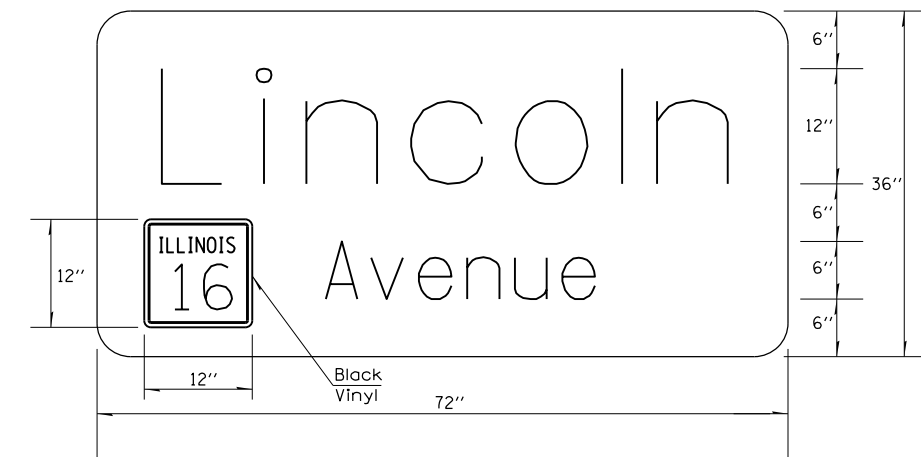
TO BE INSTALLED ON WESTBOUND MAST ARM (STA 510+61 41' LT)
TO BE INSTALLED ON EASTBOUND MAST ARM (STA 511+53 49' RT)



PHASE DESIGNATION DIAGRAM



TO BE INSTALLED ON WESTBOUND MAST ARM (STA 510+61 41' LT)
TO BE INSTALLED ON EASTBOUND MAST ARM (STA 511+53 49' RT)



TO BE INSTALLED ON SOUTHBOUND MAST ARM (STA 510+80 55' RT)
TO BE INSTALLED ON NORTHBOUND MAST ARM (STA 511+29 65' LT)

SIGN PANEL DETAILS

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INTERSECTION OF LINCOLN AVE (IL RTE 16) & DIVISION ST
DETAILS

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
91	(51,51Z)RS-3	COLES	211	147
CONTRACT NO. 74694				
ILLINOIS FED. AID PROJECT				

BILL OF MATERIALS-DIVISION STREET

ITEM	UNIT	QUANTITY
SIGN PANEL-TYPE 1	SQ FT	12.5
SIGN PANEL-TYPE 2	SQ FT	72
SERVICE INSTALLATION, TYPE A	EACH	1
UNDERGROUND CONDUIT, PVC, 3/4" DIA	FOOT	89
UNDERGROUND CONDUIT, PVC, 1" DIA	FOOT	1436
UNDERGROUND CONDUIT, PVC, 1 1/2" DIA	FOOT	149
UNDERGROUND CONDUIT, PVC, 2" DIA	FOOT	71
UNDERGROUND CONDUIT, PVC, 4" DIA	FOOT	198
UNDERGROUND CONDUIT, PVC, 5" DIA	FOOT	6
HANDHOLE	EACH	3
DOUBLE HANDHOLE	EACH	1
GULFBOX JUNCTION	EACH	10
ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 3-1/C NO 8	FOOT	334
FULL-ACTUATED CONTROLLER AND TYPE IV CABINET	EACH	1
UNINTERRUPTABLE POWER SUPPLY, EXTENDED	EACH	1
TRANSCEIVER-FIBER OPTIC	EACH	1
FIBER OPTIC CABLE IN CONDUIT, NO 62.5/125, 6F	FOOT	1253
ELECTRIC CABLE IN CONDUIT, SIGNAL, NO 14 3C	FOOT	1186
ELECTRIC CABLE IN CONDUIT, SIGNAL, NO 14 5C	FOOT	2081
ELECTRIC CABLE IN CONDUIT, SIGNAL, NO 14 7C	FOOT	1188
ELECTRIC CABLE IN CONDUIT, LEAD-IN NO 14 1 PAIR	FOOT	1605
ELECTRIC CABLE IN CONDUIT, SERVICE, NO 6 2C	FOOT	20
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO 6 1C	FOOT	402
TRAFFIC SIGNAL POST, GALVANIZED STEEL 12 FT	EACH	1
TRAFFIC SIGNAL POST, GALVANIZED STEEL 14 FT	EACH	1
TRAFFIC SIGNAL POST, GALVANIZED STEEL 18 FT	EACH	3
PEDESTRIAN PUSH-BUTTON POST	EACH	4
STEEL MAST ARM ASSEMBLY AND POLE, 16 FT	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 28 FT	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE, 44 FT	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE, 48 FT	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	15
CONCRETE FOUNDATION, TYPE C	FOOT	3.5
CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	20
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	26
SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	1
SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	8
SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 4-SECTION, MAST ARM MOUNTED	EACH	2
SIGNAL HEAD, POLYCARBONATE, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED	EACH	2
SIGNAL HEAD, POLYCARBONATE, LED, 2-FACE, 1-3 SECTION, 1-4 SECTION, BRACKET MOUNTED	EACH	2
PEDESTRIAN SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, BRACKET MOUNTED WITH COUNT DOWN TIMER	EACH	2
PEDESTRIAN SIGNAL HEAD, POLYCARBONATE, LED, 2-FACE, BRACKET MOUNTED WITH COUNT DOWN TIMER	EACH	3
TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	19
INDUCTIVE LOOP DETECTOR	EACH	8
DETECTOR LOOP, TYPE I	FOOT	851

ITEM	UNIT	QUANTITY
TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1
REMOVE EXISTING SERVICE INSTALLATION	EACH	1
RELOCATE EXISTING EMERGENCY PRIORITY SYSTEM, COMPLETE	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING HANDHOLE	EACH	4
REMOVE EXISTING CONCRETE FOUNDATION	EACH	13
LUMINAIRE, LED, ROADWAY, OUTPUT DESIGNATION G	EACH	2
ACCESSIBLE PEDESTRIAN SIGNALS	EACH	8

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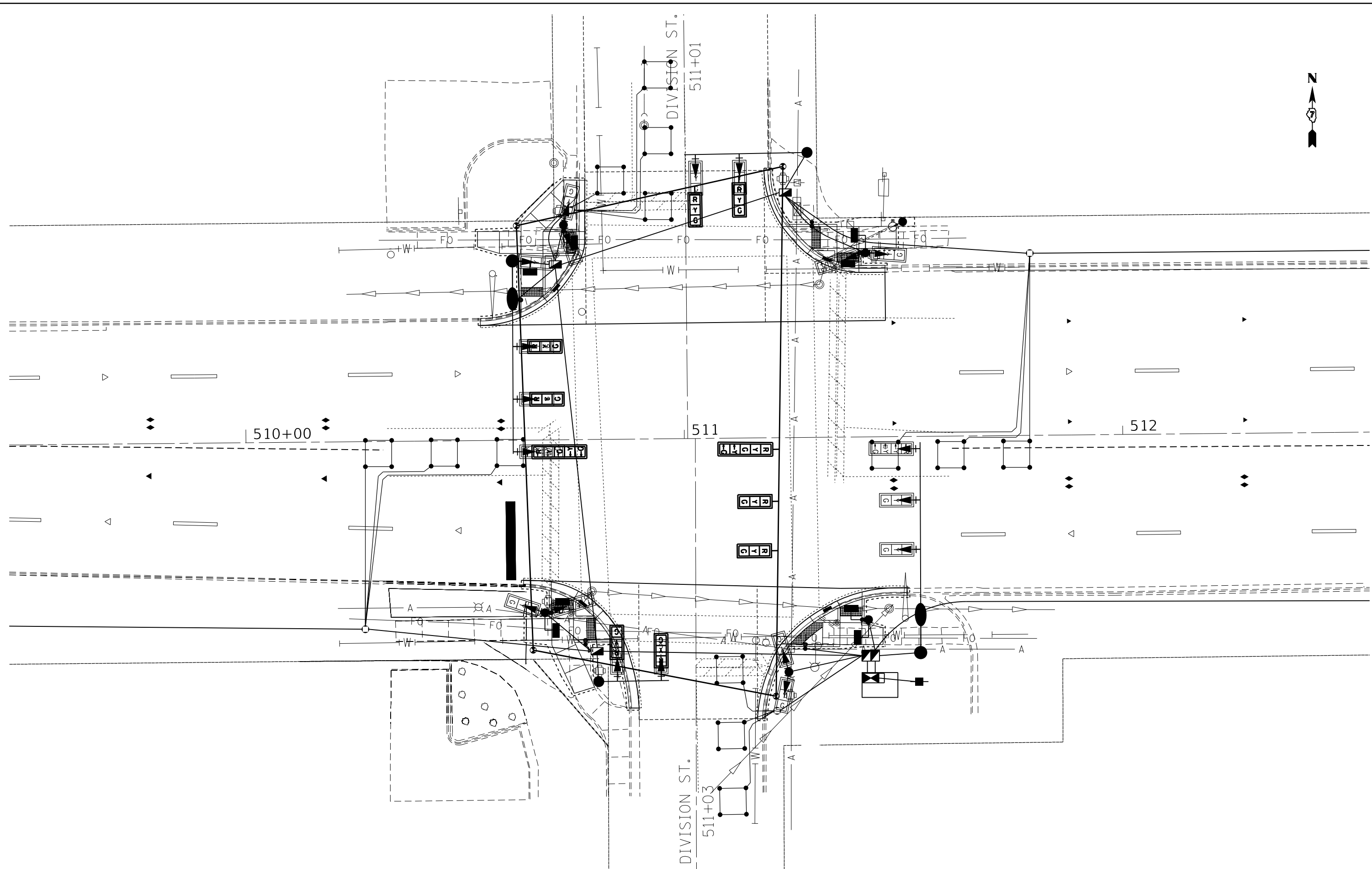
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**INTERSECTION OF LINCOLN AVE (IL ROUTE 16) & DIVISION ST
BILL OF MATERIALS**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
91	(51,51Z)RS-3	COLES	211	148
CONTRACT NO. 74694				
ILLINOIS FED. AID PROJECT				



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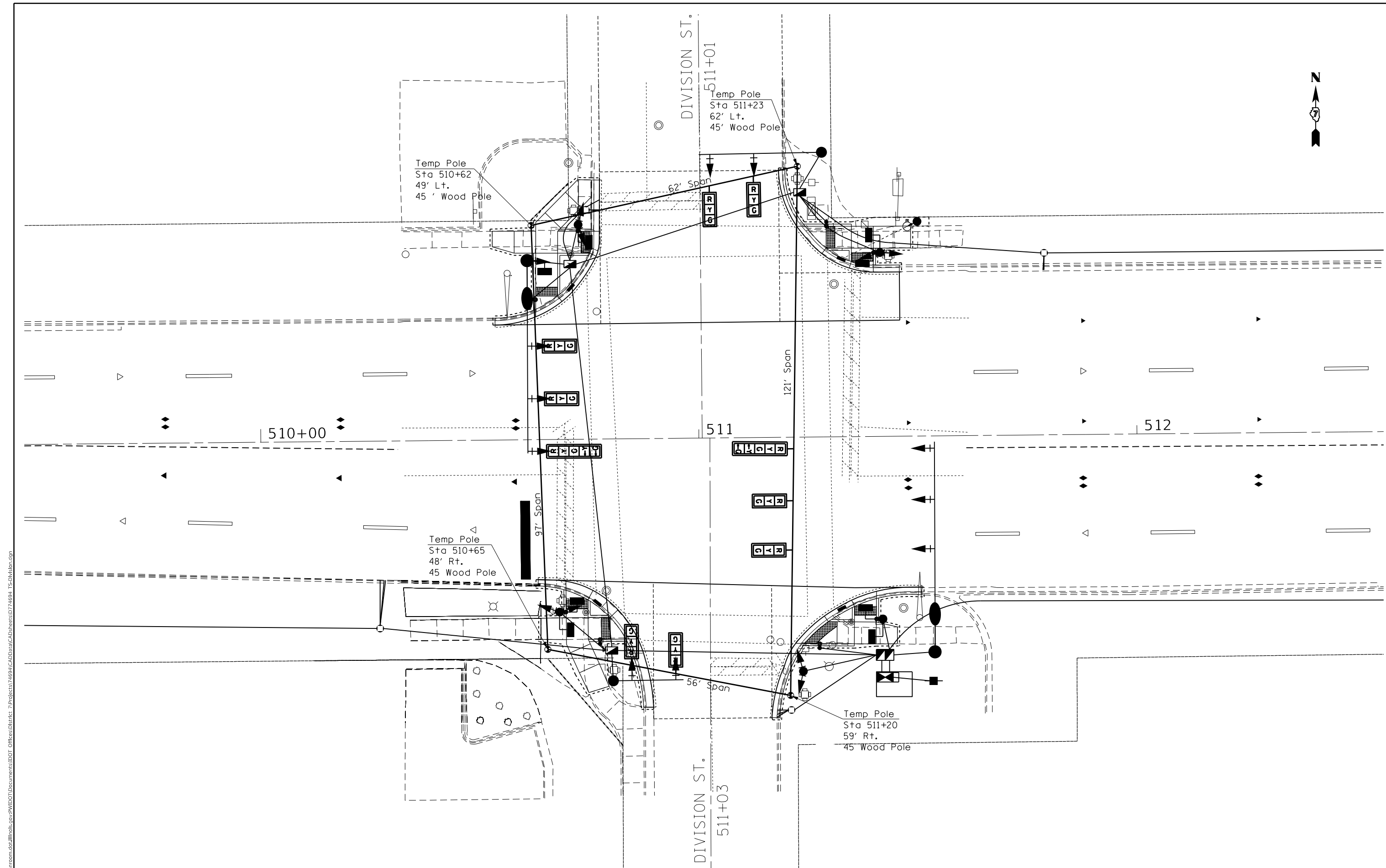
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INTERSECTION OF LINCOLN AVE (IL RTE 16) & DIVISION ST
EXISTING UTILITY LAYOUT

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
91	(51,51Z)RS-3	COLES	211	149
CONTRACT NO. 74694				
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INTERSECTION OF LINCOLN AVE (IL RTE 16) & DIVISION ST
TEMPORARY SIGNALS

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
91	(51,51Z)RS-3	COLES	211	150
CONTRACT NO. 74694				
ILLINOIS FED. AID PROJECT				

REMOVAL ITEMS

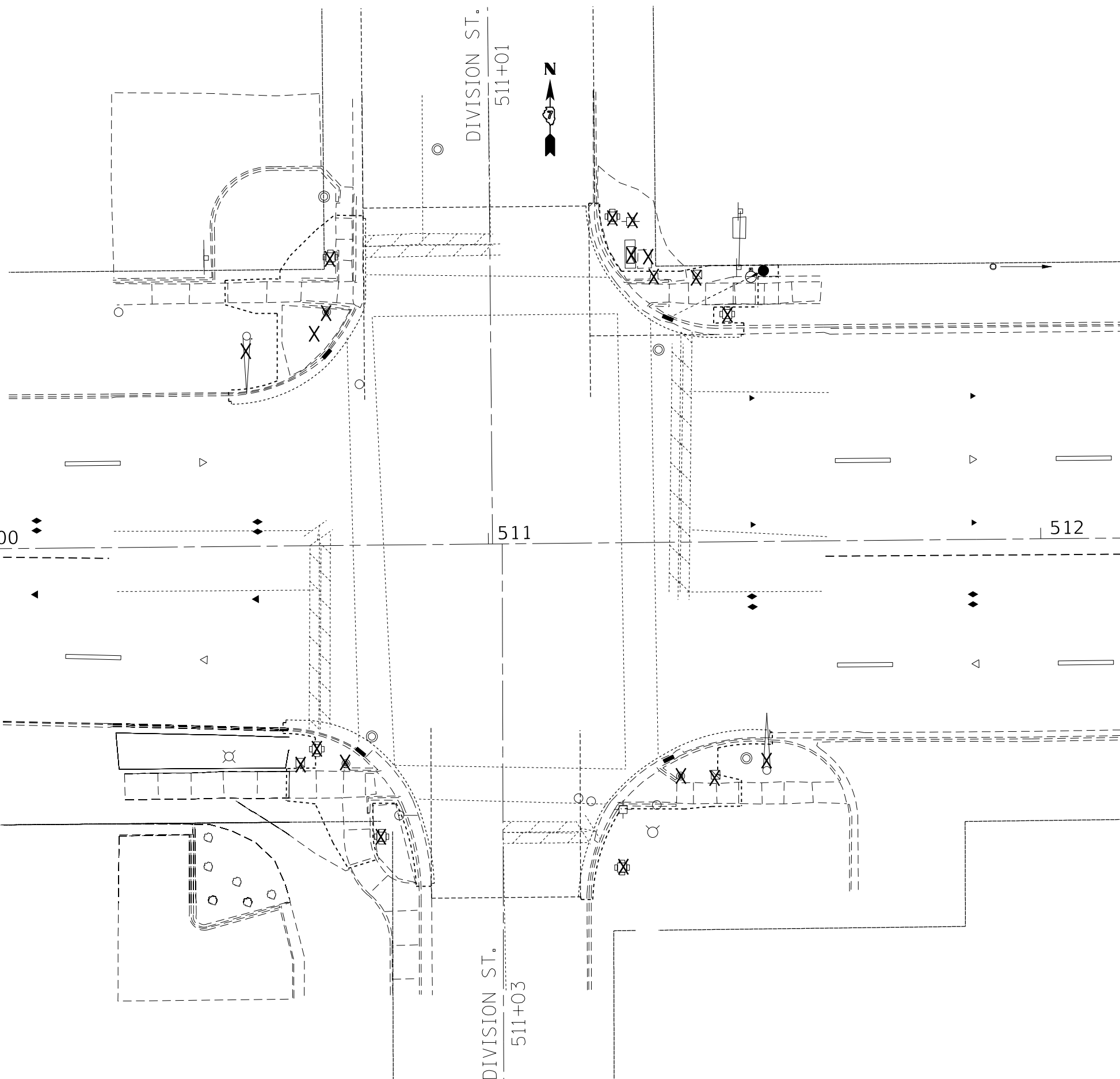
	Total	NW	NE	SE	SW
Remove Existing Service Installation	Each 1	-	1	-	-
Remove Existing Handhole	Each 4	1	1	1	1
Remove Existing Double Handhole	Each 0	-	-	-	-
Remove Existing Concrete Foundation	Each 13	3	4	3	3
Remove Existing Traffic Signal Equipment	Each 1				

• See individual items below.

REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT

(QUANTITY: 1 EACH)

	Total	NW	NE	SE	SW
Pedestrian Signal Head	8	2	2	2	2
Pedestrian Push-Button	8	2	2	2	2
Pedestrian Push Button Post	4	1	1	1	1
Traffic signal Head-3 Section BM	8	2	2	2	2
Traffic Signal Head-5 Section BM	2	-	1	-	1
Traffic Signal Head-3 Section MAM	2	1	-	1	-
Traffic Signal Head-5 Section MAM	2	1	-	1	-
Traffic Signal Post	6	1	2	1	2
Traffic Signal Mast Arm	2	1	-	1	-
Traffic Signal Cabinet, Controller & Components	1	-	1	-	-
Gulfbox Junction	2	-	1	-	1



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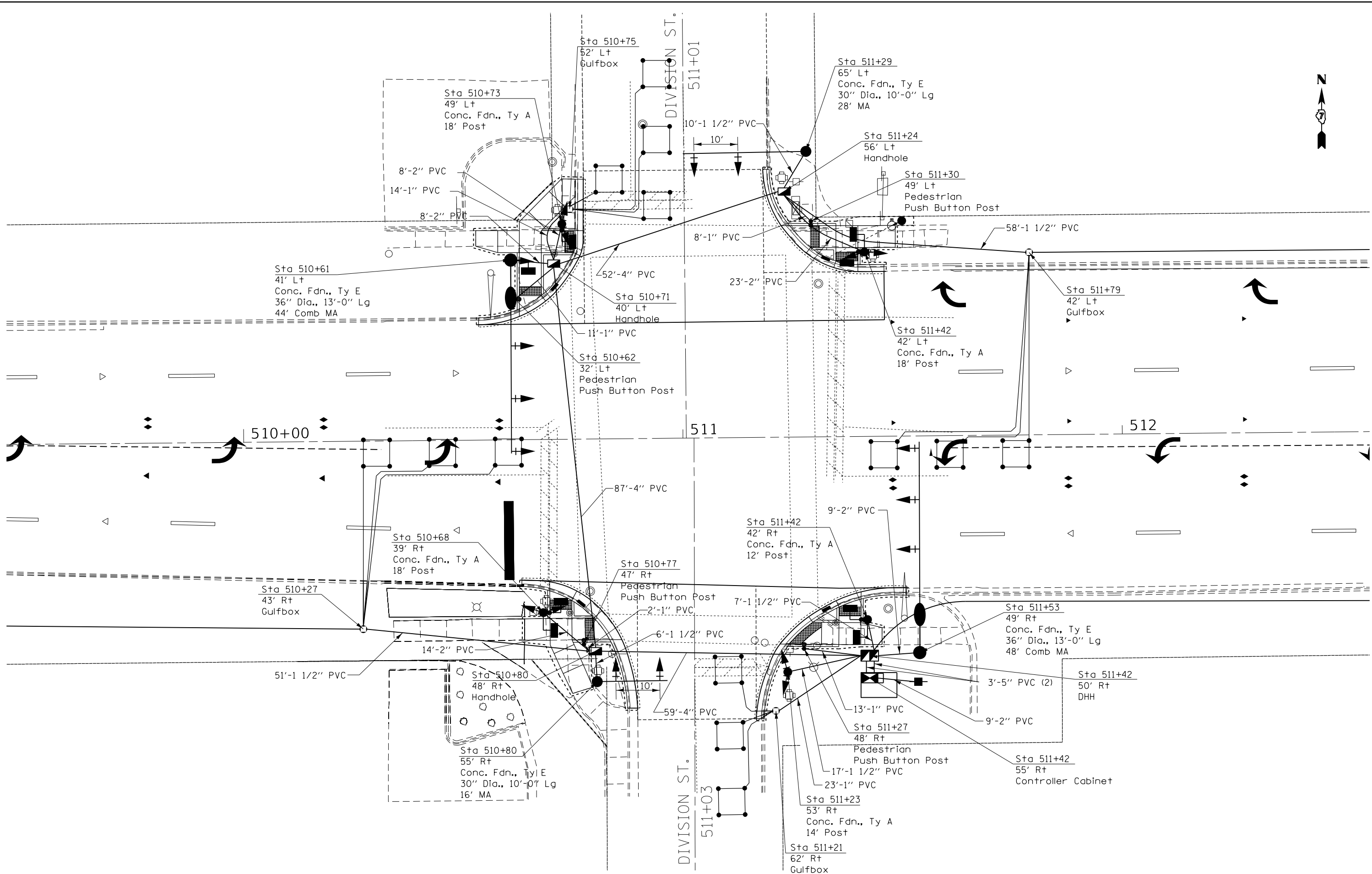
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INTERSECTION OF LINCOLN AVE (IL RTE 16) & DIVISION ST
TRAFFIC SIGNAL REMOVAL ITEMS

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
91	(51,512)RS-3	COLES	211	151
CONTRACT NO. 74694				
ILLINOIS FED. AID PROJECT				



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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

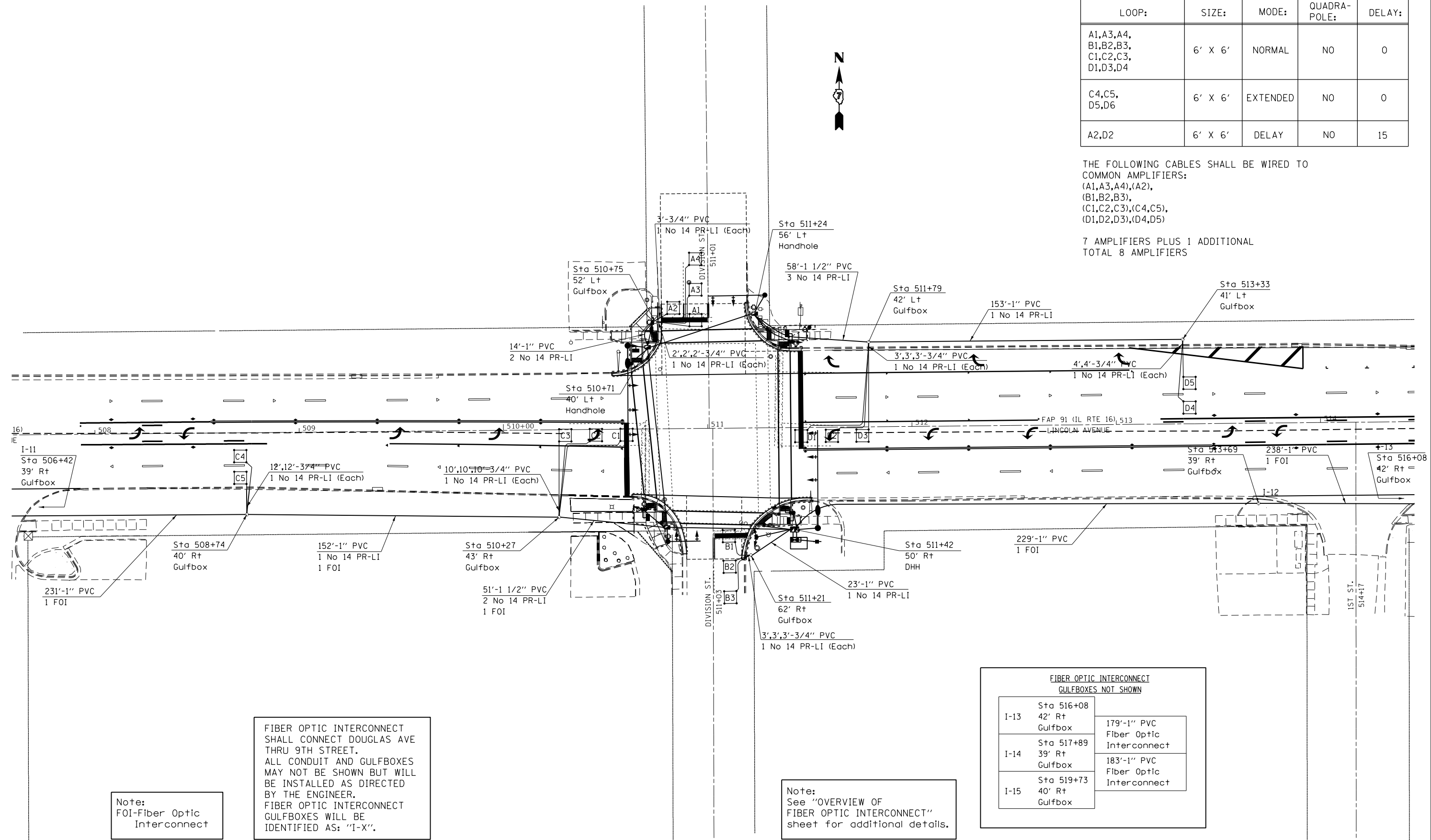
INTERSECTION OF LINCOLN AVE (IL RTE 16) & DIVISION ST			
SIGNAL LAYOUT			
SCALE:	SHEET	OF SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
91	(51,512)RS-3	COLES	211	152
CONTRACT NO. 74694				
ILLINOIS		FED. AID PROJECT		

LOOP:	SIZE:	MODE:	QUADRA-POLE:	DELAY:
A1,A3,A4, B1,B2,B3, C1,C2,C3, D1,D3,D4	6' X 6'	NORMAL	NO	0
C4,C5, D5,D6	6' X 6'	EXTENDED	NO	0
A2,D2	6' X 6'	DELAY	NO	15

THE FOLLOWING CABLES SHALL BE WIRED TO COMMON AMPLIFIERS:
 (A1,A3,A4),(A2),
 (B1,B2,B3),
 (C1,C2,C3),(C4,C5),
 (D1,D2,D3),(D4,D5)

7 AMPLIFIERS PLUS 1 ADDITIONAL
 TOTAL 8 AMPLIFIERS



Note:
FOI-Fiber Optic Interconnect

FIBER OPTIC INTERCONNECT SHALL CONNECT DOUGLAS AVE THRU 9TH STREET. ALL CONDUIT AND GULFBXES MAY NOT BE SHOWN BUT WILL BE INSTALLED AS DIRECTED BY THE ENGINEER. FIBER OPTIC INTERCONNECT GULFBXES WILL BE IDENTIFIED AS: "I-X".

Note:
See "OVERVIEW OF FIBER OPTIC INTERCONNECT" sheet for additional details.

FIBER OPTIC INTERCONNECT GULFBXES NOT SHOWN	
I-13 Sta 516+08 42' Rt Gulfbox	179'-1" PVC Fiber Optic Interconnect
I-14 Sta 517+89 39' Rt Gulfbox	183'-1" PVC Fiber Optic Interconnect
I-15 Sta 519+73 40' Rt Gulfbox	

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**INTERSECTION OF LINCOLN AVE (IL RTE 16) & DIVISION ST
DETECTOR LOOPS & FIBER OPTIC INTERCONNECT**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE. 91	SECTION (51,512)RS-3	COUNTY COLES	TOTAL SHEETS 211	SHEET NO. 154
CONTRACT NO. 74694				
ILLINOIS FED. AID PROJECT				



SOIL BORING LOG

ROUTE FAP 91 (IL-16) DESCRIPTION Southeast Quad LOGGED BY E. Sandschafer

SECTION (50,51,51Z)RS-3 LOCATION IL 16 at Division, SEC. 15, TWP. 12N, RNG. 9E, 3 PM

COUNTY Coles DRILLING METHOD Hollow stem auger & split spoon HAMMER TYPE Auto 140#

STRUCT. NO. Traffic Signal
Station 511+53 49' Rt.

BORING NO. B1 - Division
Station 511+59
Offset 26.0ft Rt
Ground Surface Elev. 694.95 ft

DEPTWHS Qu T
E L C O
P O S I
T W S
H S Qu T

Surface Water Elev. N/A ft
Stream Bed Elev. N/A ft

Groundwater Elev.:
First Encounter 678.0 ft
Upon Completion 678.0 ft
After 216 Hrs. 686.0 ft

(ft) /6" (tst) (%)

DEPTH (ft)	DIAMETER (in)	TEST	PERCENT	DESCRIPTION	DEPTH (ft)	DIAMETER (in)	TEST	PERCENT	DESCRIPTION
0				3.75" asphalt pavement.	0				Medium, damp, grey, SANDY LOAM
1				11.25" concrete pavement.	1				Broken sample.
2				Stiff, damp, brown, CLAY LOAM	2				Broken sample. (continued)
3	1.81	23			3	1.32	12		Stiff, damp, grey, CLAY LOAM
3	B				3	B			
				Medium, brown and grey marbled					
-5	1		22		-25	3			
2	0.87				4	1.24	14		
3	B				5	B			
				Stiff, brown					
687.65	1				667.95	4			
687.05	1	1.15	17		5	1.90	11		
	3	B			7	B			
				Stiff, damp, brown SANDY LOAM					
				Very stiff, damp, brown, CLAY LOAM					
					665.45				
	2				-30	3			
	3	2.27	18		3	0.82	14		
684.15	3	B			4	B			
				Grey, SILTY LOAM					
				Soft, damp					
	4								
	5	0.41	23						
	8	B							
680.45									
	4				-35				
	9	NT	13						
	14								
				Medium, damp, grey, SANDY LOAM					
				Broken sample.					
	6								
	9	NT	15						
	13								
				Broken sample.					
	5				-40				

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer, E-Estimated)
Abbreviations W.O.H - Sampler Advanced By Weight of Hammer, W.O.P - Advanced by Weight of Pipe, B.S. - Before Seating
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) BBS, Form 137 (Rev. 8-99)



SOIL BORING LOG

ROUTE FAP 91 (IL-16) DESCRIPTION Southeast Quad LOGGED BY E. Sandschafer

SECTION (50,51,51Z)RS-3 LOCATION IL 16 at Division, SEC. 15, TWP. 12N, RNG. 9E, 3 PM

COUNTY Coles DRILLING METHOD Hollow stem auger & split spoon HAMMER TYPE Auto 140#

STRUCT. NO. Traffic Signal
Station 510+61 41' Lt.

BORING NO. B2 - Division
Station 510+57
Offset 43.0ft Lt
Ground Surface Elev. 695.57 ft

DEPTWHS Qu T
E L C O
P O S I
T W S
H S Qu T

Surface Water Elev. N/A ft
Stream Bed Elev. N/A ft

Groundwater Elev.:
First Encounter 685.6 ft
Upon Completion 683.6 ft
After 216 Hrs. 691.9 ft

(ft) /6" (tst) (%)

DEPTH (ft)	DIAMETER (in)	TEST	PERCENT	DESCRIPTION	DEPTH (ft)	DIAMETER (in)	TEST	PERCENT	DESCRIPTION
0				Topsoil.	0				Medium, damp, grey, CLAY LOAM
1				Hard, damp, brown, CLAY	1				TILL
					3				
	3				2				
	3	4.5	13		3	0.99	13		
	3	P			4	B			
				Stiff, brown and grey marbled.					
				Medium					
-5	3				-25	6			
4	1.24	23			5	0.75	16		
5	B				7	P			
				Stiff, brown					
687.65	1				668.57	5			
687.05	1	0.58	17		6	0.30	NT		
	2	B			6	P			
				Stiff, damp, brown SANDY LOAM					
				Very stiff, damp, brown, CLAY LOAM					
					666.07				
	2				-30	5			
	3	2.27	18		3	0.66	15		
684.15	3	B			4	B			
				Medium, damp, grey, CLAY LOAM					
				Grey, SILTY LOAM					
				Soft, damp					
	4								
	5	0.41	23						
	8	B							
680.45									
	4				-35	3			
	9	NT	13			4	0.54	14	
	14					6	B		
				Medium, damp, grey, SANDY LOAM					
				Broken sample.					
	6								
	9	NT	15						
	13								
				Broken sample.					
	5				-40				

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer, E-Estimated)
Abbreviations W.O.H - Sampler Advanced By Weight of Hammer, W.O.P - Advanced by Weight of Pipe, B.S. - Before Seating
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) BBS, Form 137 (Rev. 8-99)

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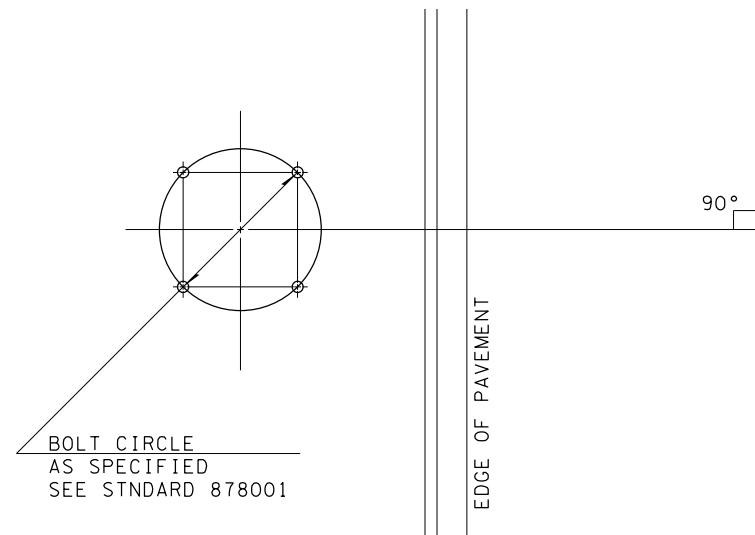
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

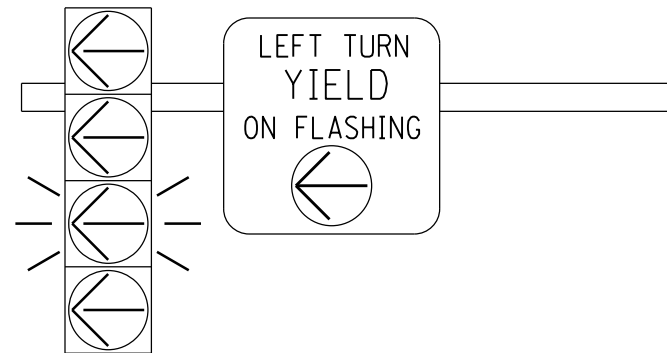
INTERSECTION OF LINCOLN AVE (IL RTE 16) & DIVISION ST
BORING LOGS

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
91	(51,51Z)RS-3	COLES	211	155
CONTRACT NO. 74694				
ILLINOIS FED. AID PROJECT				

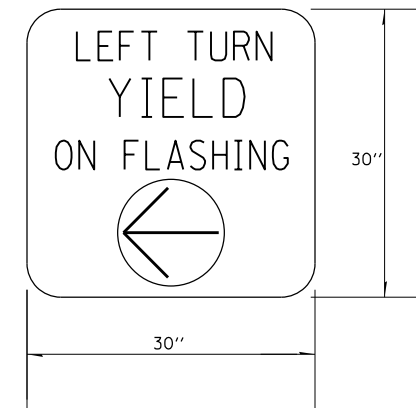


DETAIL OF MAST ARM FOUNDATION
BOLT PATTERN

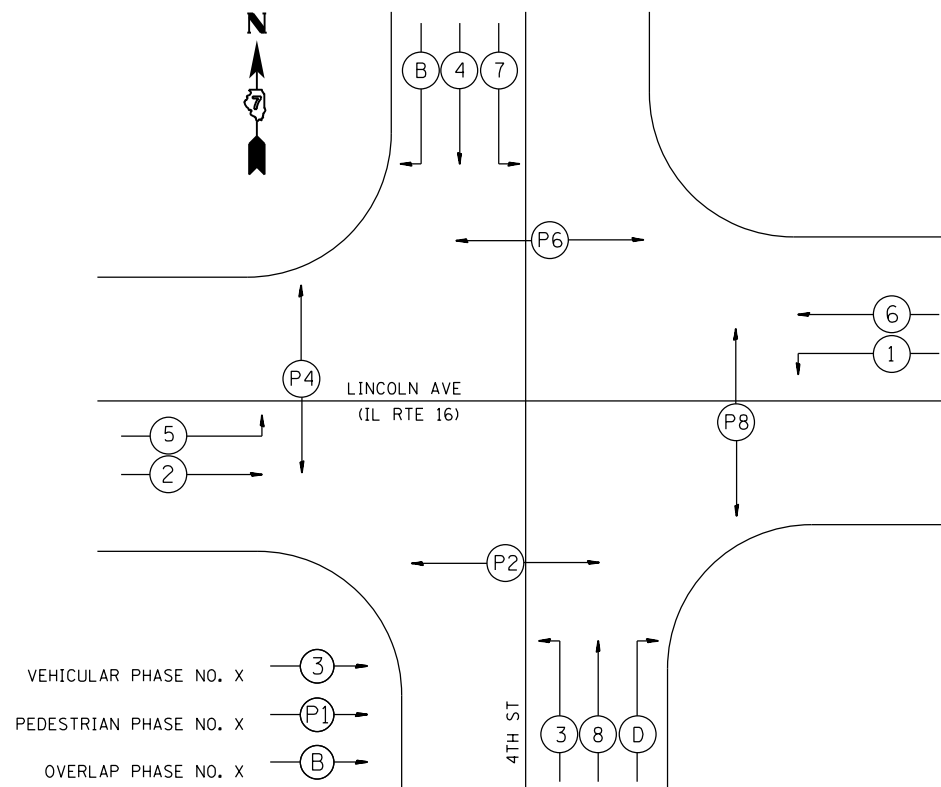


FLASHING YELLOW ARROW
SIGN PANEL DETAILS

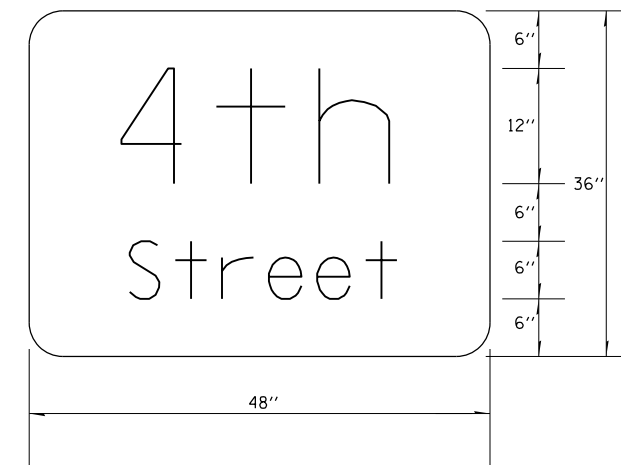
1. SIGN SHALL HAVE A BLACK REFLECTORIZED LEGEND AND BORDER ON A WHITE REFLECTORIZED BACKGROUND. ARROW IS YELLOW ON A BLACK BACKGROUND.
2. AP SHEETING.
3. SIGN TO BE INSTALLED DIRECTLY ADJACENT TO FYA SIGNAL HEAD ON MAST ARM.
4. ILLINOIS STANDARD R10-1109a SIGN.



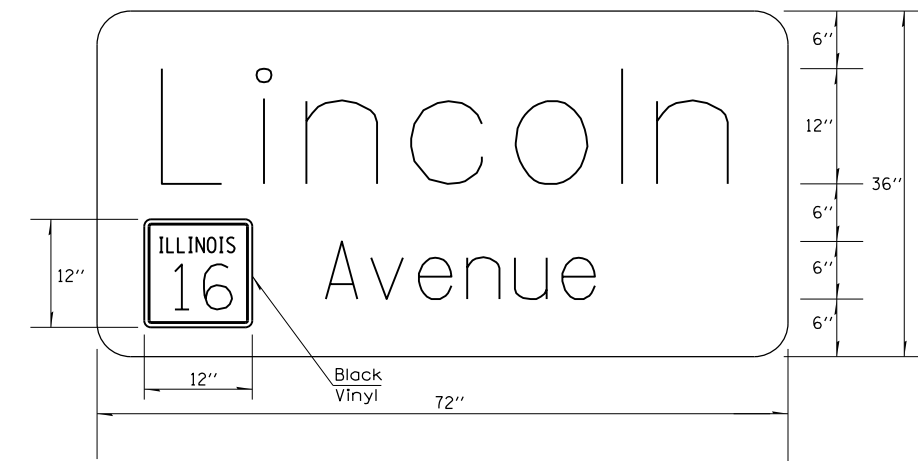
TO BE INSTALLED ON WESTBOUND MAST ARM (STA 523+38 38' LT)
TO BE INSTALLED ON EASTBOUND MAST ARM (STA 524+75 49' RT)
TO BE INSTALLED ON SOUTHBOUND MAST ARM (STA 523+67 36' LT)
TO BE INSTALLED ON NORTHBOUND MAST ARM (STA 524+40 65' RT)



PHASE DESIGNATION DIAGRAM



TO BE INSTALLED ON WESTBOUND MAST ARM (STA 523+38 38' LT)
TO BE INSTALLED ON EASTBOUND MAST ARM (STA 524+75 49' RT)



TO BE INSTALLED ON SOUTHBOUND MAST ARM (STA 523+67 36' LT)
TO BE INSTALLED ON NORTHBOUND MAST ARM (STA 524+40 65' RT)

SIGN PANEL DETAILS

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INTERSECTION OF LINCOLN AVE (IL RTE 16) & 4TH ST
DETAILS

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
91	(51,512)RS-3	COLES	211	156
CONTRACT NO. 74694				
ILLINOIS FED. AID PROJECT				

BILL OF MATERIALS-4TH STREET

ITEM	UNIT	QUANTITY
SIGN PANEL-TYPE 1	SO FT	25
SIGN PANEL-TYPE 2	SO FT	60
SERVICE INSTALLATION, TYPE A	EACH	1
UNDERGROUND CONDUIT, PVC, 3/4" DIA	FOOT	259
UNDERGROUND CONDUIT, PVC, 1" DIA	FOOT	922
UNDERGROUND CONDUIT, PVC, 1 1/2" DIA	FOOT	286
UNDERGROUND CONDUIT, PVC, 2" DIA	FOOT	81
UNDERGROUND CONDUIT, PVC, 4" DIA	FOOT	286
UNDERGROUND CONDUIT, PVC, 5" DIA	FOOT	14
HANDHOLE	EACH	3
DOUBLE HANDHOLE	EACH	1
GULFBOX JUNCTION	EACH	7
ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 3-1/C NO 8	FOOT	388
FULL-ACTUATED CONTROLLER AND TYPE IV CABINET	EACH	1
UNINTERRUPTABLE POWER SUPPLY, EXTENDED	EACH	1
TRANSCIVER-FIBER OPTIC	EACH	1
FIBER OPTIC CABLE IN CONDUIT, NO 62.5/125, 6F	FOOT	825
ELECTRIC CABLE IN CONDUIT, SIGNAL, NO 14 3C	FOOT	1150
ELECTRIC CABLE IN CONDUIT, SIGNAL, NO 14 5C	FOOT	1366
ELECTRIC CABLE IN CONDUIT, SIGNAL, NO 14 7C	FOOT	1994
ELECTRIC CABLE IN CONDUIT, LEAD-IN NO 14 1 PAIR	FOOT	1995
ELECTRIC CABLE IN CONDUIT, SERVICE, NO 6 2C	FOOT	51
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO 6 1C	FOOT	625
TRAFFIC SIGNAL POST, GALVANIZED STEEL 12 FT	EACH	3
TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT	EACH	4
PEDESTRIAN PUSH-BUTTON POST	EACH	7
STEEL MAST ARM ASSEMBLY AND POLE, 32 FT	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 42 FT	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE, 40 FT	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE, 44 FT	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	21
CONCRETE FOUNDATION, TYPE C	FOOT	3.5
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	50
SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	8
SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 4-SECTION, MAST ARM MOUNTED	EACH	4
SIGNAL HEAD, POLYCARBONATE, LED, 2-FACE, 1-3 SECTION, 1-4 SECTION, BRACKET MOUNTED	EACH	4
PEDESTRIAN SIGNAL HEAD, POLYCARBONATE, LED, 2-FACE, BRACKET MOUNTED WITH COUNT DOWN TIMER	EACH	4
TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	20
INDUCTIVE LOOP DETECTOR	EACH	12
DETECTOR LOOP, TYPE I	FOOT	1226

ITEM	UNIT	QUANTITY
TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1
REMOVE EXISTING SERVICE INSTALLATION	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING HANDHOLE	EACH	5
REMOVE EXISTING DOUBLE HANDHOLE	EACH	1
REMOVE EXISTING CONCRETE FOUNDATION	EACH	13
LUMINAIRE, LED, ROADWAY, OUTPUT DESIGNATION G	EACH	2
ACCESSIBLE PEDESTRIAN SIGNALS	EACH	8

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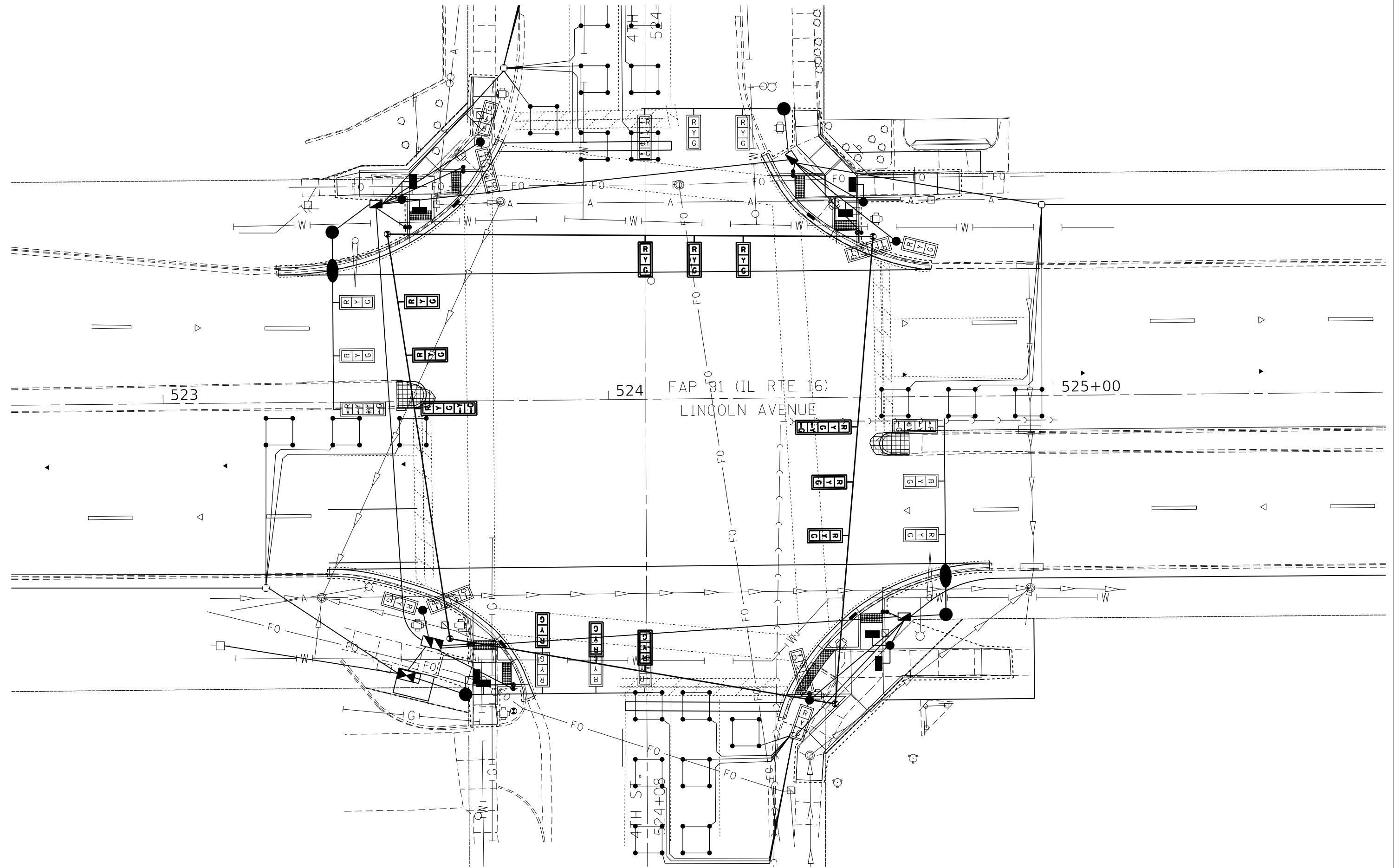
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**INTERSECTION OF LINCOLN AVE (IL ROUTE 16) & 4TH ST
BILL OF MATERIALS**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
91	(51,51Z)RS-3	COLES	211	157
CONTRACT NO. 74694				
ILLINOIS FED. AID PROJECT				

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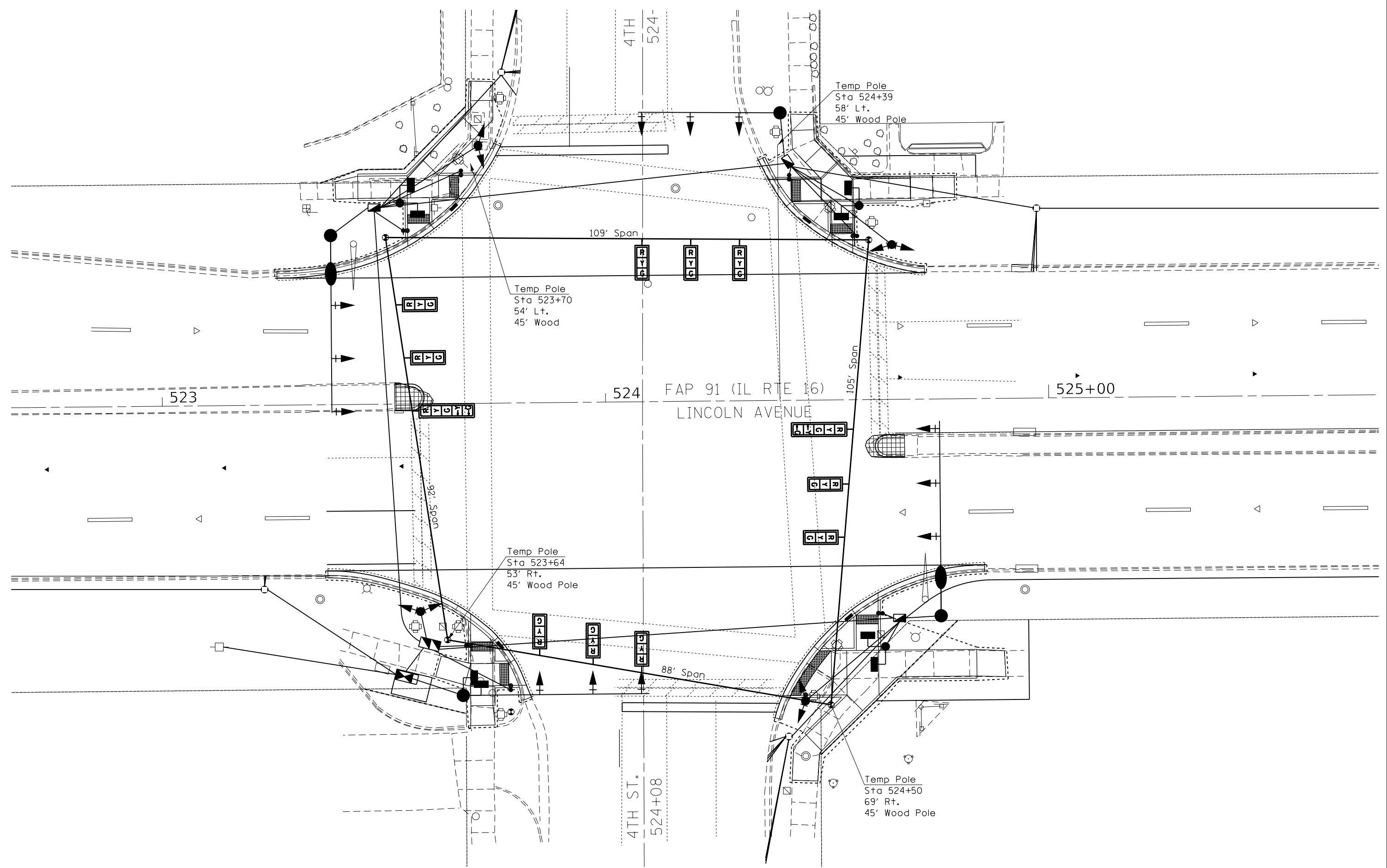
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**INTERSECTION OF LINCOLN AVE (IL RTE 16) & 4TH ST
 EXISTING UTILITY LAYOUT**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
91	(51,51Z)RS-3	COLES	211	158
CONTRACT NO. 74694				
ILLINOIS FED. AID PROJECT				

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PLOT DATE = 10/15/2019	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**INTERSECTION OF LINCOLN AVE (IL RTE 16) & 4TH ST
 TEMPORARY SIGNAL LAYOUT**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
91	(51,51Z)RS-3	COLES	211	159
CONTRACT NO. 74694				
ILLINOIS FED. AID PROJECT				

REMOVAL ITEMS

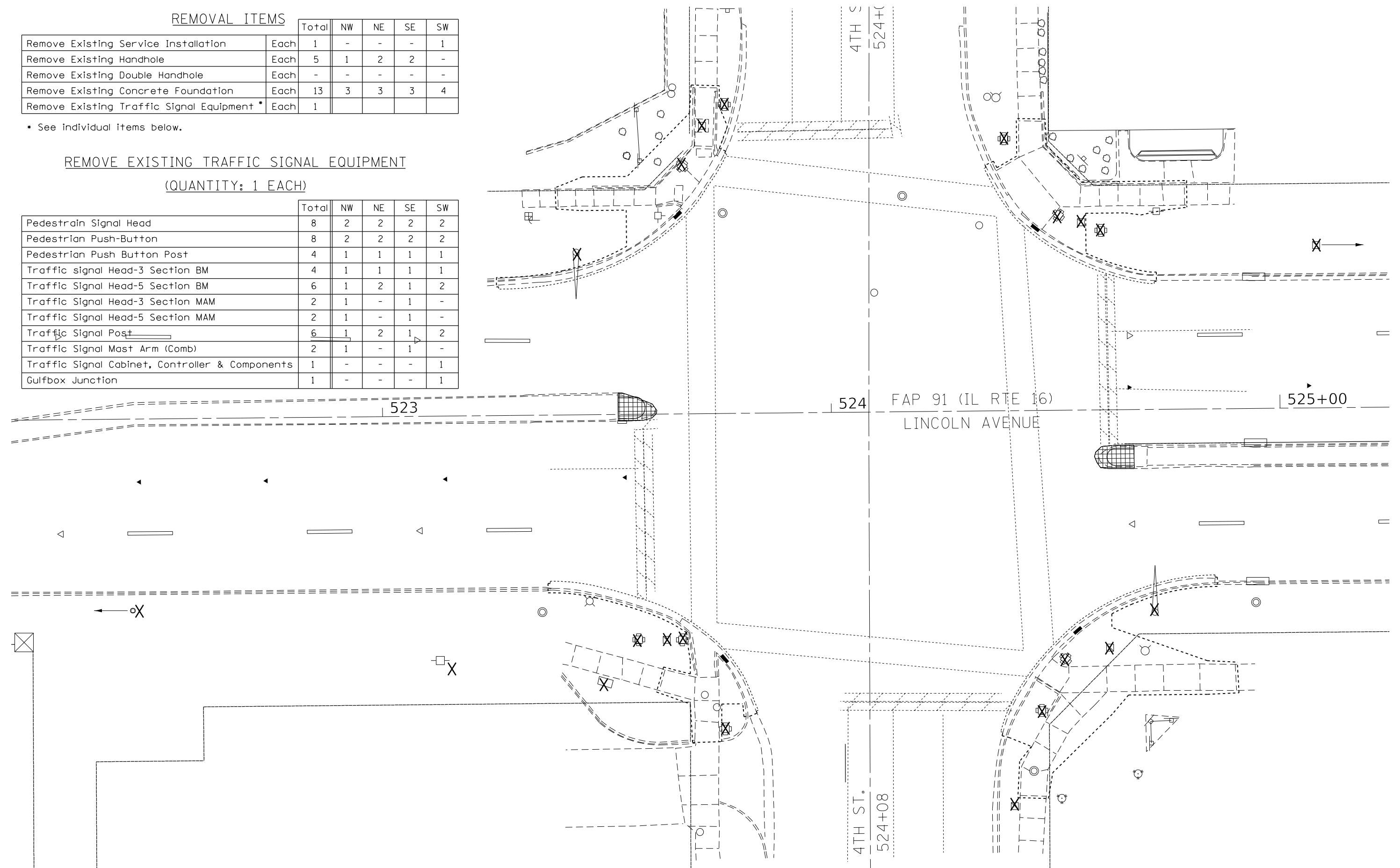
	Each	Total	NW	NE	SE	SW
Remove Existing Service Installation	Each	1	-	-	-	1
Remove Existing Handhole	Each	5	1	2	2	-
Remove Existing Double Handhole	Each	-	-	-	-	-
Remove Existing Concrete Foundation	Each	13	3	3	3	4
Remove Existing Traffic Signal Equipment *	Each	1				

* See individual items below.

REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT

(QUANTITY: 1 EACH)

	Total	NW	NE	SE	SW
Pedestrian Signal Head	8	2	2	2	2
Pedestrian Push-Button	8	2	2	2	2
Pedestrian Push Button Post	4	1	1	1	1
Traffic signal Head-3 Section BM	4	1	1	1	1
Traffic Signal Head-5 Section BM	6	1	2	1	2
Traffic Signal Head-3 Section MAM	2	1	-	1	-
Traffic Signal Head-5 Section MAM	2	1	-	1	-
Traffic Signal Post	6	1	2	1	2
Traffic Signal Mast Arm (Comb)	2	1	-	1	-
Traffic Signal Cabinet, Controller & Components	1	-	-	-	1
Gulfbox Junction	1	-	-	-	1



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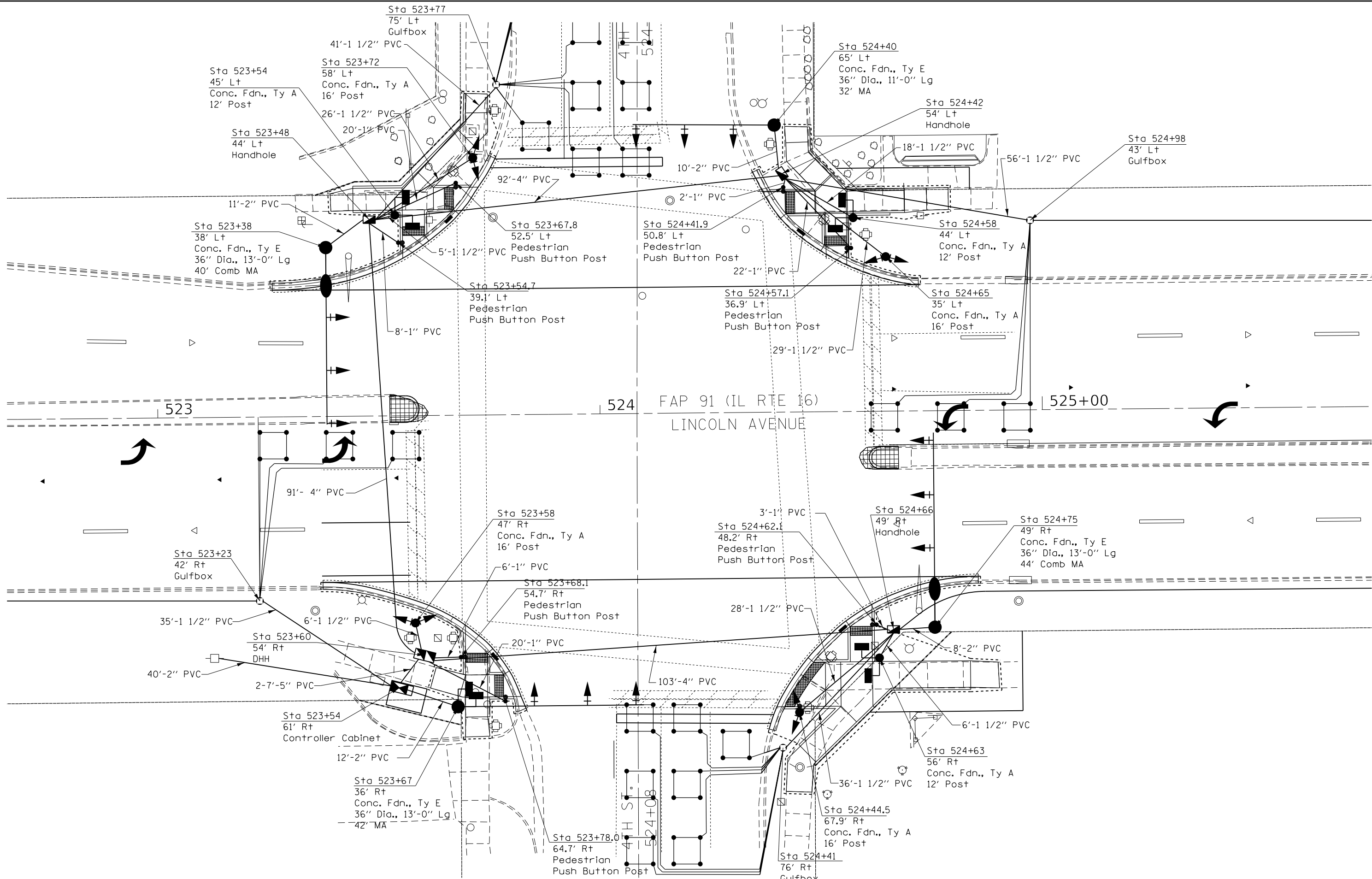
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INTERSECTION OF LINCOLN AVE (IL RTE 16) & 4TH ST
TRAFFIC SIGNAL REMOVAL ITEMS

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
91	(51,51Z)RS-3	COLES	211	160
CONTRACT NO. 74694				
ILLINOIS FED. AID PROJECT				



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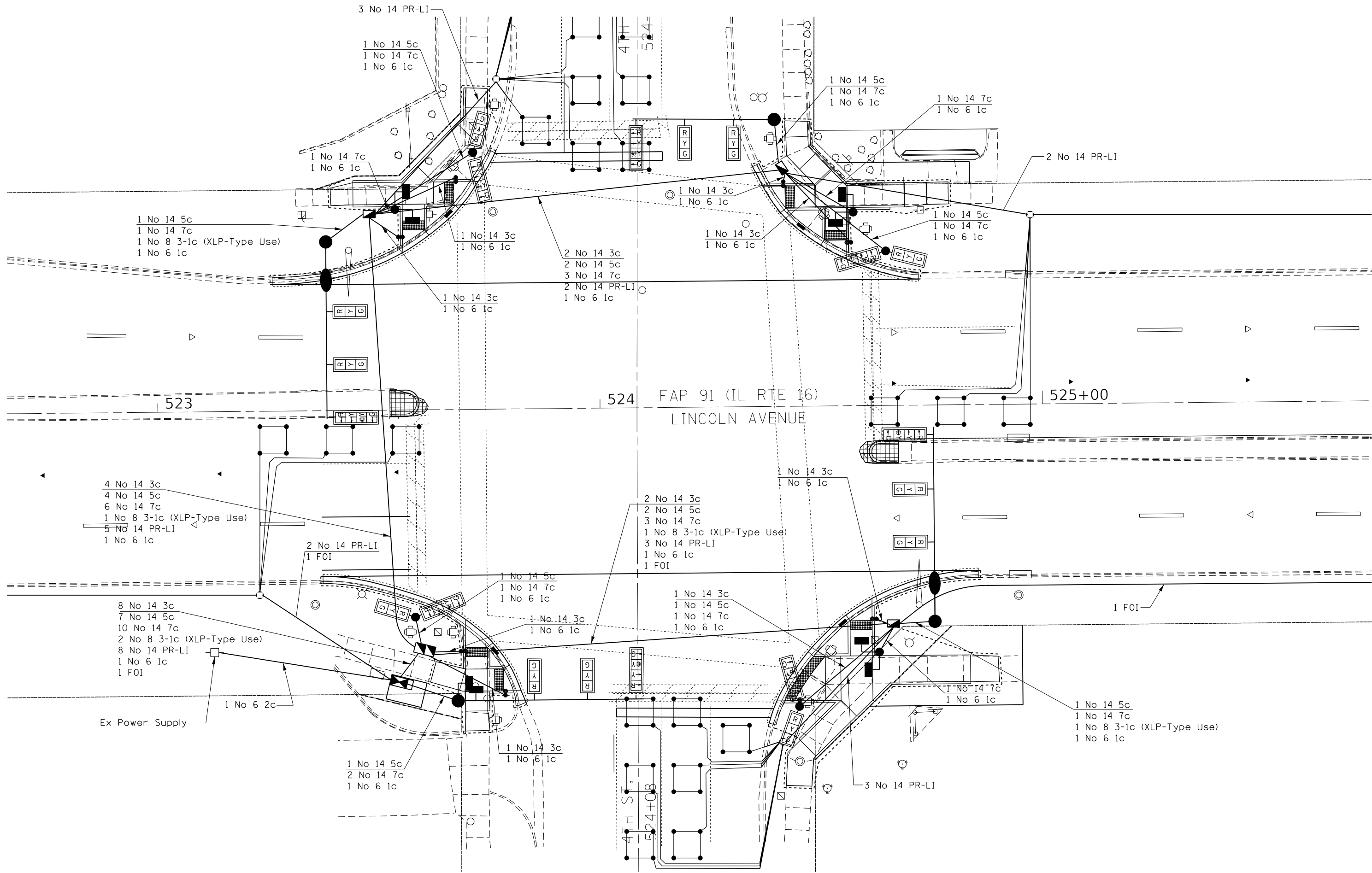
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PLOT DATE = 10/15/2019	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INTERSECTION OF LINCOLN AVE (IL RTE 16) & 4TH ST
SIGNAL LAYOUT

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
91	(51,512)RS-3	COLES	211	161
CONTRACT NO. 74694				
ILLINOIS		FED. AID PROJECT		



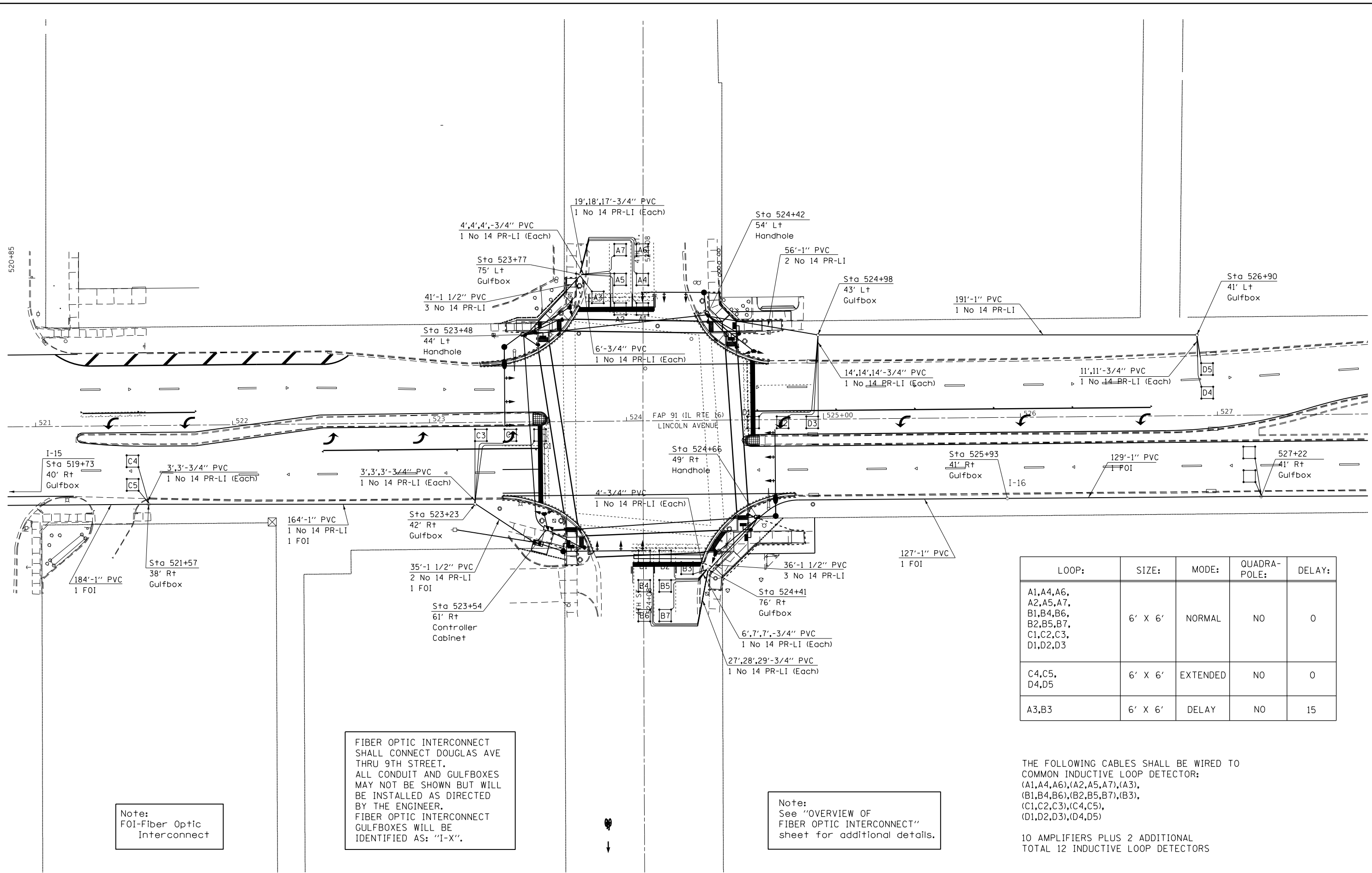
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PLOT DATE = 10/15/2019	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INTERSECTION OF LINCOLN AVE (IL RTE 16) & 4TH ST			
CABLE LAYOUT			
SCALE:	SHEET	OF SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
91	(51,51Z)RS-3	COLES	211	162
CONTRACT NO. 74694				
ILLINOIS FED. AID PROJECT				



LOOP:	SIZE:	MODE:	QUADRA-POLE:	DELAY:
A1,A4,A6, A2,A5,A7, B1,B4,B6, B2,B5,B7, C1,C2,C3, D1,D2,D3	6' X 6'	NORMAL	NO	0
C4,C5, D4,D5	6' X 6'	EXTENDED	NO	0
A3,B3	6' X 6'	DELAY	NO	15

Note:
FOI-Fiber Optic Interconnect

FIBER OPTIC INTERCONNECT SHALL CONNECT DOUGLAS AVE THRU 9TH STREET. ALL CONDUIT AND GULFBXES MAY NOT BE SHOWN BUT WILL BE INSTALLED AS DIRECTED BY THE ENGINEER. FIBER OPTIC INTERCONNECT GULFBXES WILL BE IDENTIFIED AS: "I-X".

Note:
See "OVERVIEW OF FIBER OPTIC INTERCONNECT" sheet for additional details.

THE FOLLOWING CABLES SHALL BE WIRED TO COMMON INDUCTIVE LOOP DETECTOR:
(A1,A4,A6),(A2,A5,A7),(A3),
(B1,B4,B6),(B2,B5,B7),(B3),
(C1,C2,C3),(C4,C5),
(D1,D2,D3),(D4,D5)
10 AMPLIFIERS PLUS 2 ADDITIONAL
TOTAL 12 INDUCTIVE LOOP DETECTORS

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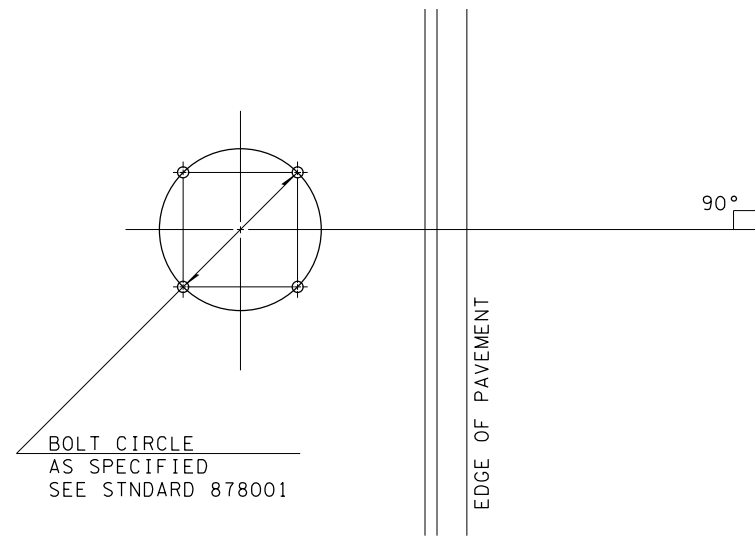
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	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

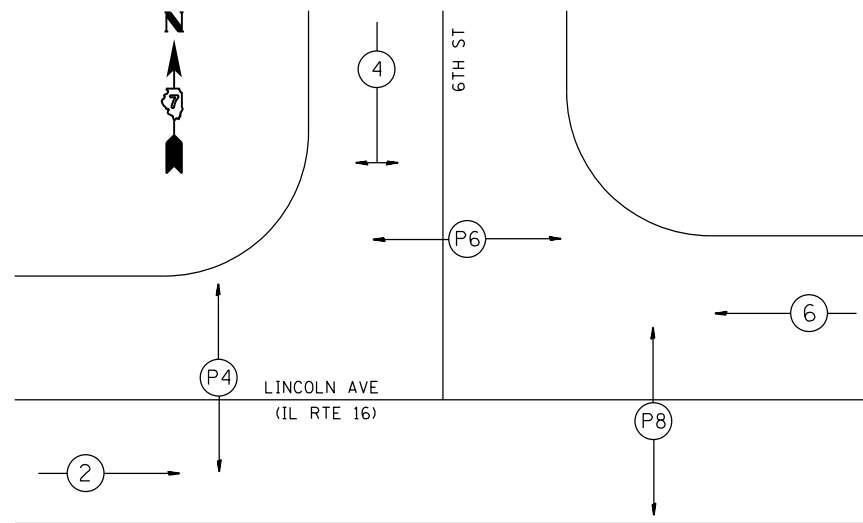
**INTERSECTION OF LINCOLN AVE (IL RTE 16) & 4TH ST
DETECTOR LOOPS & FIBER OPTIC INTERCONNECT**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
91	(51,512)RS-3	COLES	211	163
CONTRACT NO. 74694				
ILLINOIS FED. AID PROJECT				

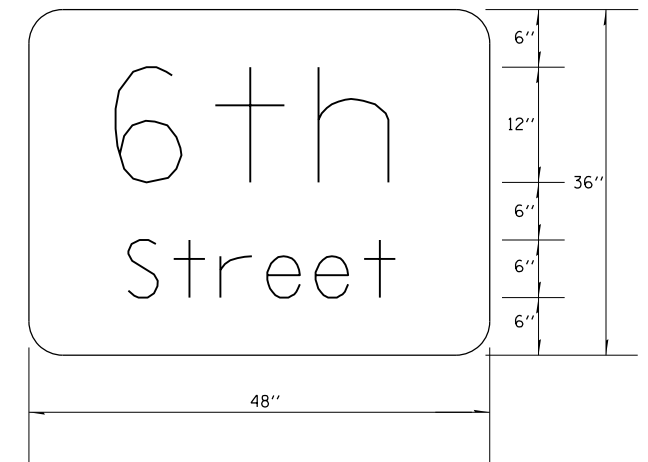


DETAIL OF MAST ARM FOUNDATION
BOLT PATTERN



- VEHICULAR PHASE NO. X (3) →
- PEDESTRIAN PHASE NO. X (P1) →
- OVERLAP PHASE NO. X (B) →

PHASE DESIGNATION DIAGRAM



TO BE INSTALLED ON WESTBOUND MAST ARM (STA 529+09 50' LT)
TO BE INSTALLED ON EASTBOUND MAST ARM (STA 530+01 48' RT)

SIGN PANEL DETAILS

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 OFFICE: IDT
 DATE: 10/15/2019

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PLOT DATE = 10/15/2019	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INTERSECTION OF LINCOLN AVE (IL RTE 16) & 6TH ST
DETAILS

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
91	(51,51Z)RS-3	COLES	211	165
CONTRACT NO. 74694				
ILLINOIS FED. AID PROJECT				

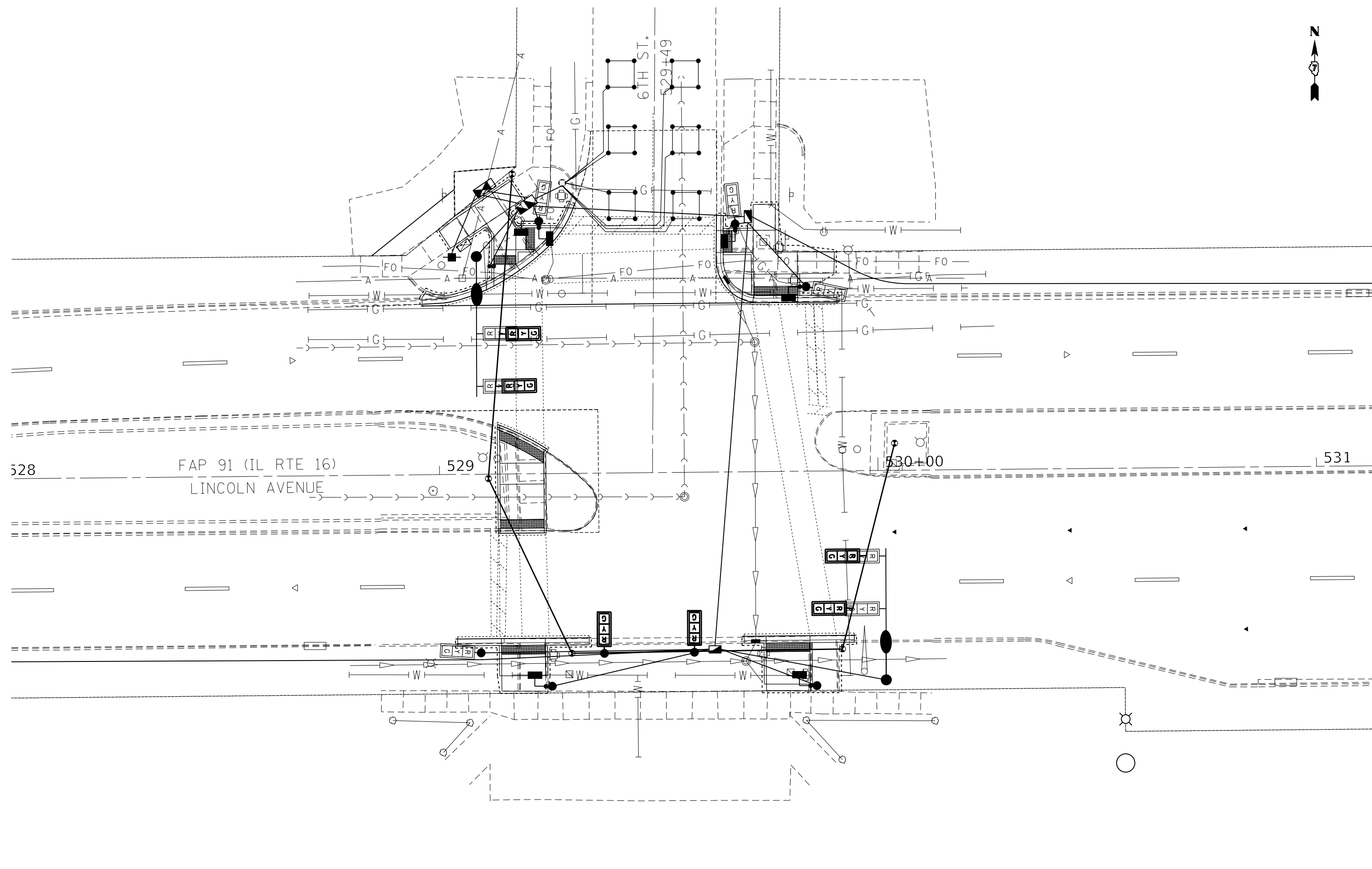
BILL OF MATERIALS-6TH STREET

ITEM	UNIT	QUANTITY
SIGN PANEL-TYPE 1	SQ FT	0
SIGN PANEL-TYPE 2	SQ FT	24
SERVICE INSTALLATION, TYPE A	EACH	1
UNDERGROUND CONDUIT, PVC, 3/4" DIA	FOOT	40
UNDERGROUND CONDUIT, PVC, 1" DIA	FOOT	753
UNDERGROUND CONDUIT, PVC, 1 1/2" DIA	FOOT	166
UNDERGROUND CONDUIT, PVC, 2" DIA	FOOT	61
UNDERGROUND CONDUIT, PVC, 4" DIA	FOOT	144
UNDERGROUND CONDUIT, PVC, 5" DIA	FOOT	18
HANDHOLE	EACH	2
DOUBLE HANDHOLE	EACH	1
GULFBOX JUNCTION	EACH	4
ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 3-1/C NO 8	FOOT	375
FULL-ACTUATED CONTROLLER AND TYPE IV CABINET	EACH	1
UNINTERRUPTABLE POWER SUPPLY, EXTENDED	EACH	1
TRANSCEIVER-FIBER OPTIC	EACH	1
FIBER OPTIC CABLE IN CONDUIT, NO 62.5/125, 6F	FOOT	877
ELECTRIC CABLE IN CONDUIT, SIGNAL, NO 14 3C	FOOT	723
ELECTRIC CABLE IN CONDUIT, SIGNAL, NO 14 5C	FOOT	1965
ELECTRIC CABLE IN CONDUIT, SIGNAL, NO 14 7C	FOOT	45
ELECTRIC CABLE IN CONDUIT, LEAD-IN NO 14 1 PAIR	FOOT	771
ELECTRIC CABLE IN CONDUIT, SERVICE, NO 6 2C	FOOT	26
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO 6 1C	FOOT	444
TRAFFIC SIGNAL POST, GALVANIZED STEEL 12 FT	EACH	2
TRAFFIC SIGNAL POST, GALVANIZED STEEL 14 FT	EACH	3
TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT	EACH	3
PEDESTRIAN PUSH-BUTTON POST	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE, 30 FT	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE, 32 FT	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	24
CONCRETE FOUNDATION, TYPE C	FOOT	3.5
CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	30.25
SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	6
SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	4
PEDESTRIAN SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, BRACKET MOUNTED WITH COUNT DOWN TIMER	EACH	4
PEDESTRIAN SIGNAL HEAD, POLYCARBONATE, LED, 2-FACE, BRACKET MOUNTED WITH COUNT DOWN TIMER	EACH	1
TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	10
INDUCTIVE LOOP DETECTOR	EACH	6
DETECTOR LOOP, TYPE I	FOOT	886
TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1
REMOVE EXISTING SERVICE INSTALLATION	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING HANDHOLE	EACH	6
REMOVE EXISTING CONCRETE FOUNDATION	EACH	11
LUMINAIRE, LED, ROADWAY, OUTPUT DESIGNATION G	EACH	2
ACCESSIBLE PEDESTRIAN SIGNALS	EACH	6

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		DRAWN -	REVISED -			91	(51,512)RS-3	COLES	211	166	
	PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -			CONTRACT NO. 74694					
	PLOT DATE = 10/15/2019	DATE -	REVISED -			SCALE:		SHEET OF SHEETS		STA. TO STA.	

ILLINOIS FED. AID PROJECT



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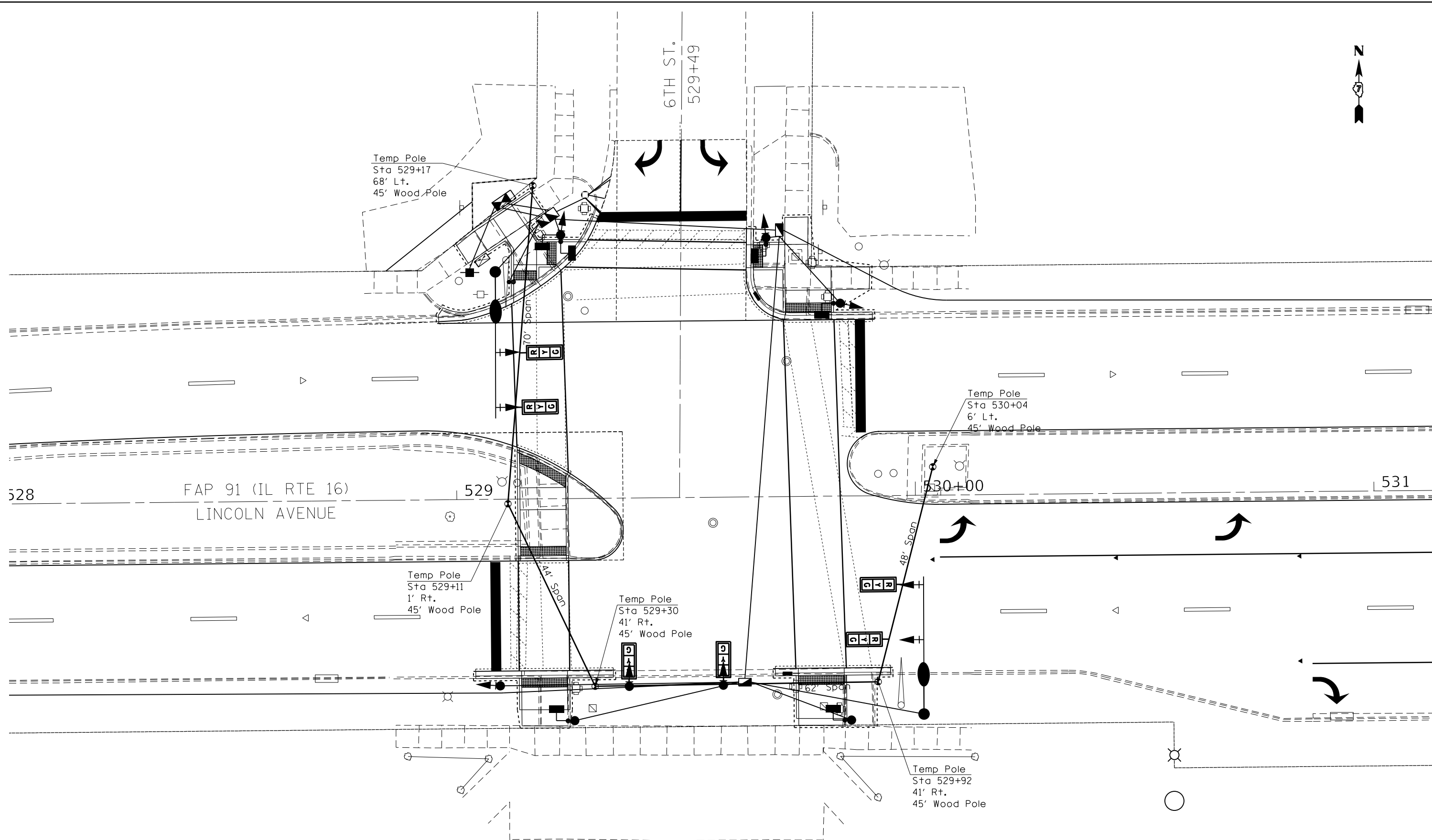
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	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INTERSECTION OF LINCOLN AVE (IL RTE 16) & 6TH ST
EXISTING UTILITY LAYOUT

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
91	(51,51Z)RS-3	COLES	211	167
CONTRACT NO. 74694				
ILLINOIS FED. AID PROJECT				



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PLOT DATE = 10/15/2019	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INTERSECTION OF LINCOLN AVE (IL RTE 16) & 6TH ST
TEMPORARY SIGNAL LAYOUT

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
91	(51,51Z)RS-3	COLES	211	168
CONTRACT NO. 74694				
ILLINOIS FED. AID PROJECT				

REMOVAL ITEMS

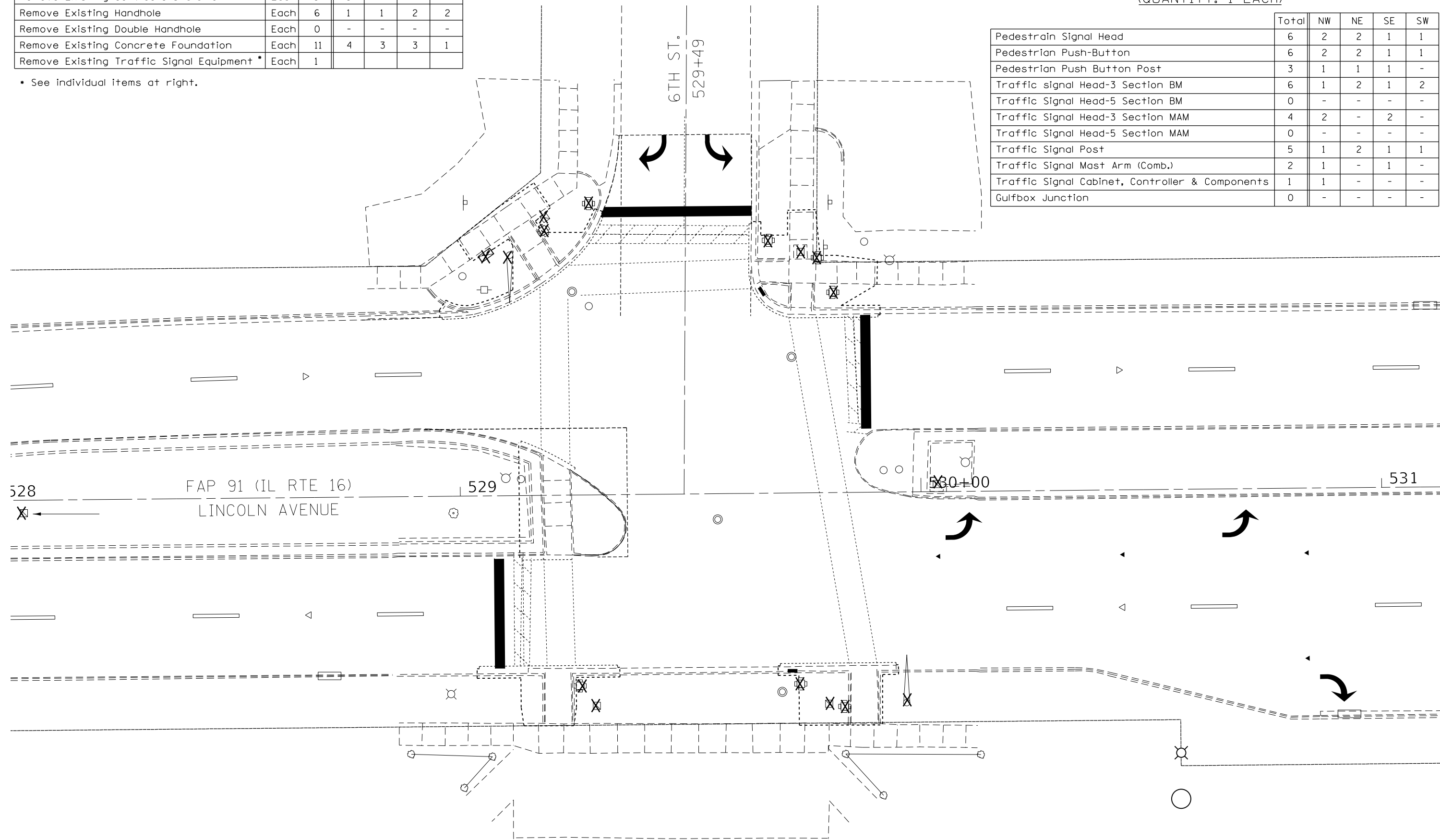
	Total	NW	NE	SE	SW
Remove Existing Service Installation	Each 1	1	-	-	-
Remove Existing Handhole	Each 6	1	1	2	2
Remove Existing Double Handhole	Each 0	-	-	-	-
Remove Existing Concrete Foundation	Each 11	4	3	3	1
Remove Existing Traffic Signal Equipment *	Each 1				

* See individual items at right.

REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT

(QUANTITY: 1 EACH)

	Total	NW	NE	SE	SW
Pedestrian Signal Head	6	2	2	1	1
Pedestrian Push-Button	6	2	2	1	1
Pedestrian Push Button Post	3	1	1	1	-
Traffic signal Head-3 Section BM	6	1	2	1	2
Traffic Signal Head-5 Section BM	0	-	-	-	-
Traffic Signal Head-3 Section MAM	4	2	-	2	-
Traffic Signal Head-5 Section MAM	0	-	-	-	-
Traffic Signal Post	5	1	2	1	1
Traffic Signal Mast Arm (Comb.)	2	1	-	1	-
Traffic Signal Cabinet, Controller & Components	1	1	-	-	-
Gulfbox Junction	0	-	-	-	-



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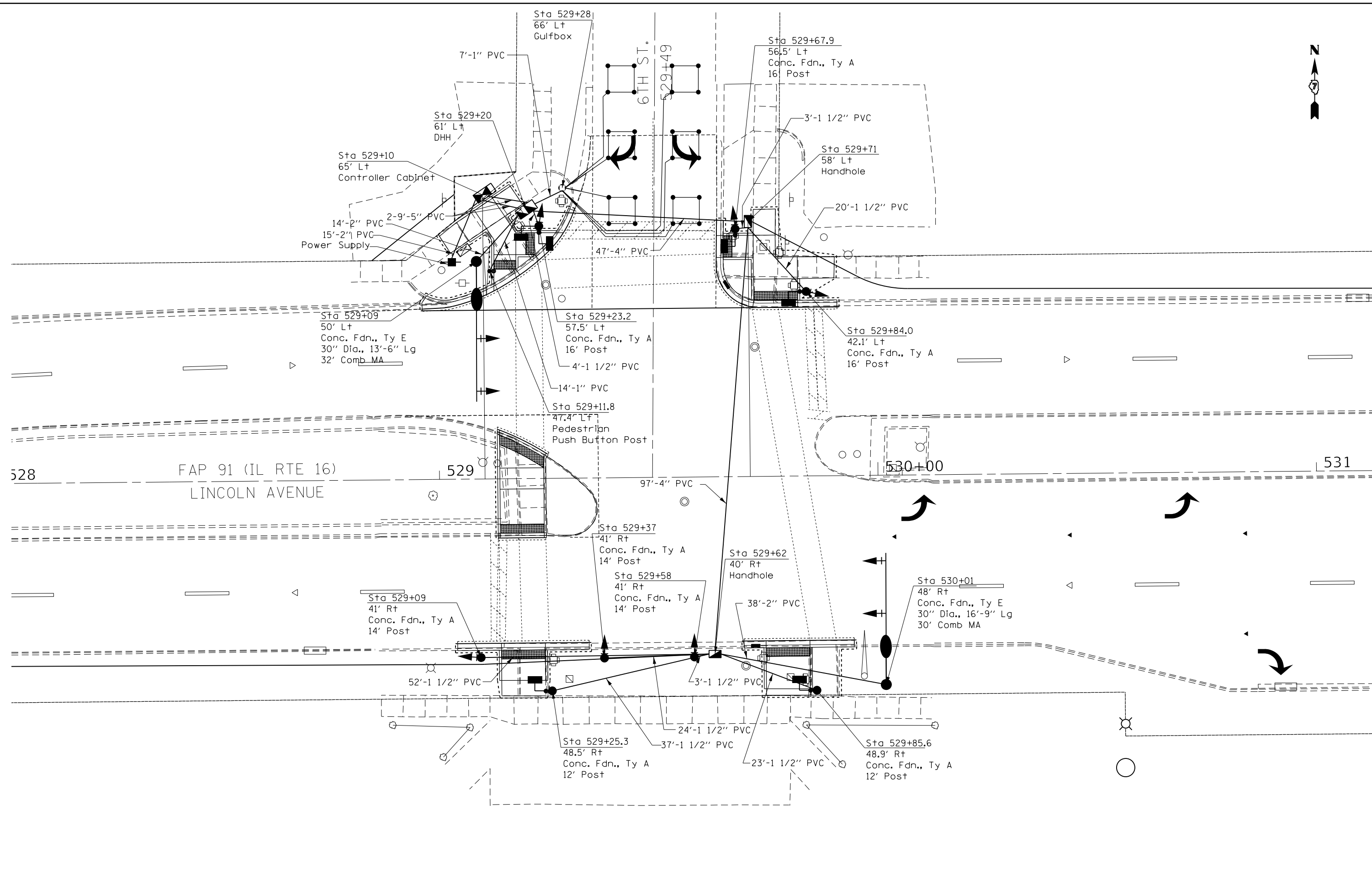
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PLOT DATE = 10/15/2019	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INTERSECTION OF LINCOLN AVE (IL RTE 16) & 6TH ST
TRAFFIC SIGNAL REMOVAL ITEMS

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
91	(51,51Z)RS-3	COLES	211	169
CONTRACT NO. 74694				
ILLINOIS FED. AID PROJECT				



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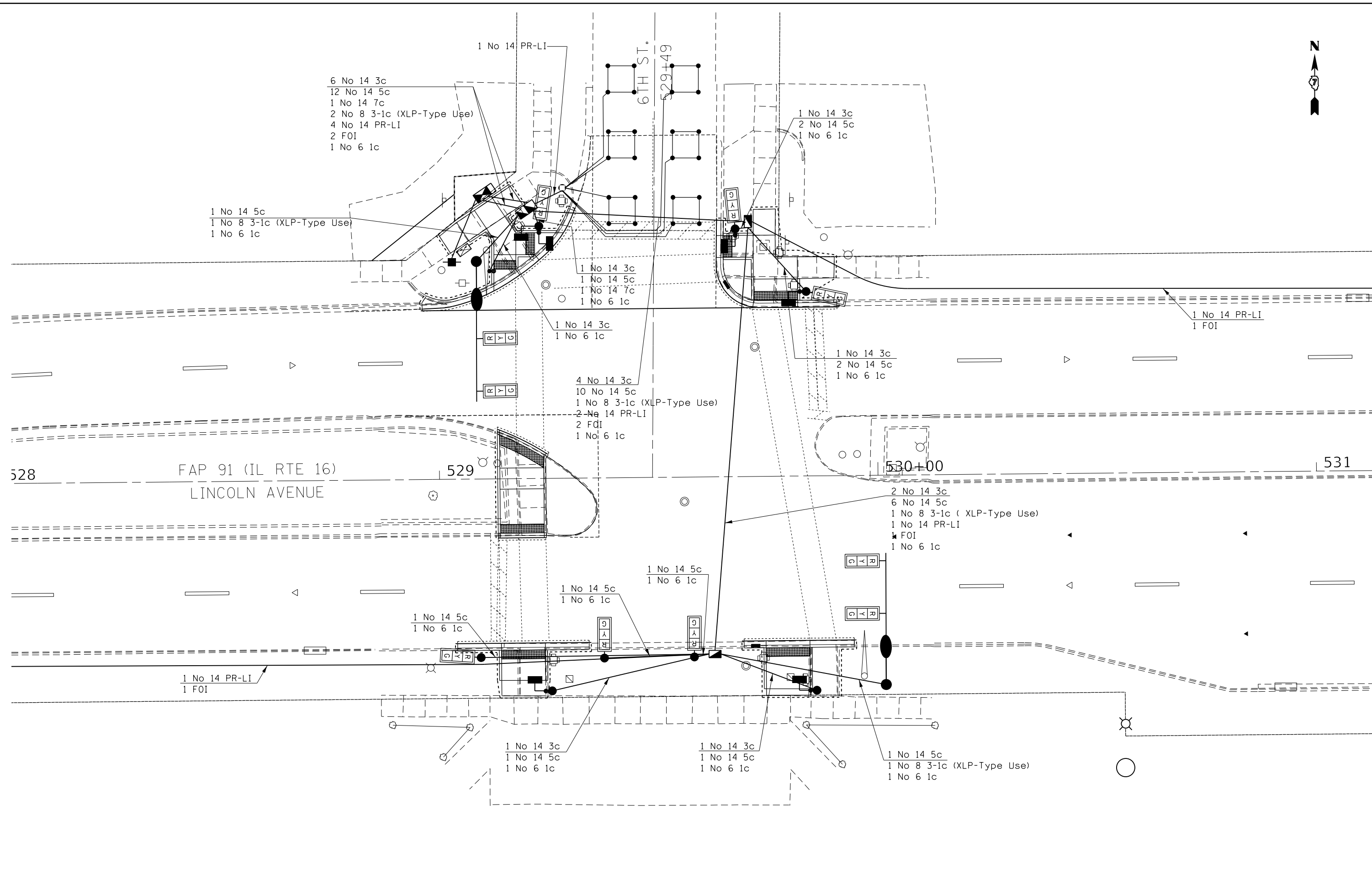
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PLOT DATE = 10/15/2019	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INTERSECTION OF LINCOLN AVE (IL RTE 16) & 6TH ST
SIGNAL LAYOUT

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
91	(51,512)RS-3	COLES	211	170
CONTRACT NO. 74694				
ILLINOIS FED. AID PROJECT				



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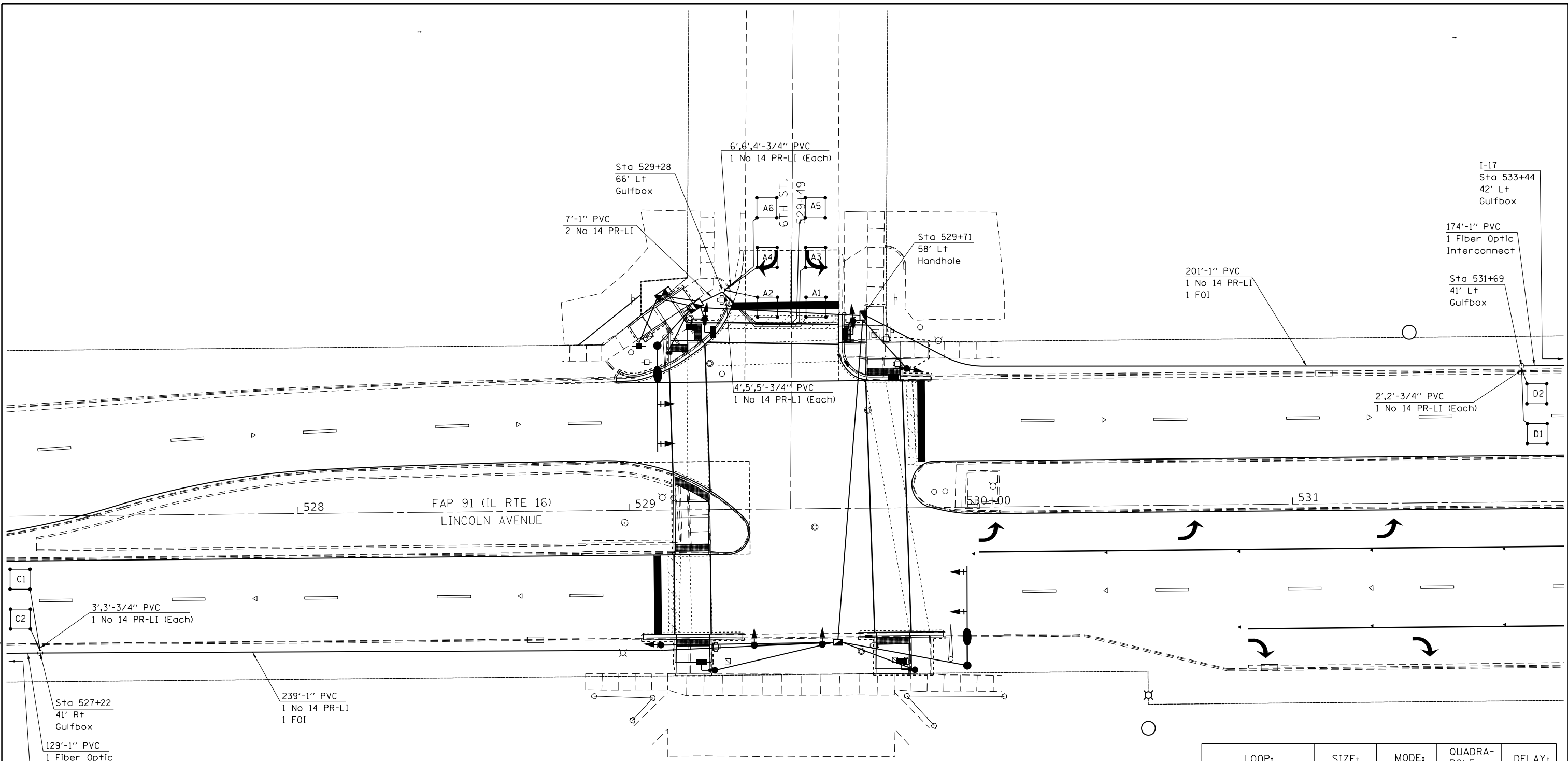
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PLOT DATE = 10/15/2019	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INTERSECTION OF LINCOLN AVE (IL RTE 16) & 6TH ST
CABLE LAYOUT

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
91	(51,51Z)RS-3	COLES	211	171
CONTRACT NO. 74694				
ILLINOIS FED. AID PROJECT				



LOOP:	SIZE:	MODE:	QUADRA-POLE:	DELAY:
A1,A3,A5, A2,A4,A6	6' X 6'	NORMAL	NO	0
C1,C2, D1,D2	6' X 6'	EXTENDED	NO	0

THE FOLLOWING CABLES SHALL BE WIRED TO COMMON INDUCTIVE LOOP DETECTOR:
 (A1,A3,A5),(A2,A4,A6),
 (C1,C2),
 (D1,D2)

4 AMPLIFIERS PLUS 2 ADDITIONAL
 TOTAL 6 INDUCTIVE LOOP DETECTORS

FIBER OPTIC INTERCONNECT SHALL CONNECT DOUGLAS AVE THRU 9TH STREET. ALL CONDUIT AND GULFBXES MAY NOT BE SHOWN BUT WILL BE INSTALLED AS DIRECTED BY THE ENGINEER. FIBER OPTIC INTERCONNECT GULFBXES WILL BE IDENTIFIED AS: "I-X".

Note:
 See "OVERVIEW OF FIBER OPTIC INTERCONNECT" sheet for additional details.

Note:
 FOI-Fiber Optic Interconnect

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	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INTERSECTION OF LINCOLN AVE (IL RTE 16) & 6TH ST
DETECTOR LOOPS

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
91	(51,51Z)RS-3	COLES	211	172
CONTRACT NO. 74694				
ILLINOIS FED. AID PROJECT				



SOIL BORING LOG

Date 7/20/18

ROUTE FAP 91 (IL-16) DESCRIPTION Southside LOGGED BY E. Sandschafer

SECTION (50,51,51Z)RS-3 LOCATION IL 16 at 6th Street, SEC. 15, TWP. 12N, RNG. 9E, 3 PM

COUNTY Coles DRILLING METHOD Hollow stem auger & split spoon HAMMER TYPE Auto 140#

STRUCT. NO. Traffic Signal
Station 530+01 45' Rt.

BORING NO. B1 - 6th Street
Station 530+04
Offset 45.0ft Rt
Ground Surface Elev. 702.20 ft

Surface Water Elev. N/A ft
Stream Bed Elev. N/A ft

Groundwater Elev.:
▽ First Encounter 690.2 ft
▽ Upon Completion 690.2 ft
▽ After 144 Hrs. 692.2 ft

D E P T H (ft)	B L O W S (/6")	U C S (tsf)	M O I S T (%)	Description	D E P T H (ft)	B L O W S (/6")	U C S (tsf)	M O I S T (%)
701.95				Topsoil.				
				Brown, SANDY CLAY				
	5			Stiff, moist, with gravel.				
	6	1.24	9					
	9	BS						
					677.70			
697.20	7			Medium, moist, brown SANDY LOAM	-25	2		
	9	0.69	17			4	0.82	34
	11	S				5	B	
				Stiff.				
	6				674.70	2		
	8	1.15	16	Stiff, moist, grey, CLAY LOAM		3	1.40	13
	10	S				5	B	
				Medium, Augers moved with sampler (Hole Caved).				
	8				-30	1		
	11	0.92	13	Medium, till.		4	0.99	15
	6	S				5	B	
				Very soft.	671.20			
	8			Extent of Exploration.				
	10	0.18	14	Benchmark: BM 507 SE quad of IL 16 and 6th St., chiseled square on NE corner mast arm, 50.5' S of CL 16, 50' E of CL 6th St.				
	14	S						
				Soft, grey.				
	10				-35			
	11	0.46	15					
	14	S						
				Very stiff, moist, grey SILTY LOAM				
	5							
	10	2.06	17					
	10	S						
					682.70			
	1				-40			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer, E-Estimated)
Abbreviations W.O.H - Sampler Advanced By Weight of Hammer, W.O.P - Advanced by Weight of Pipe, B.S. - Before Seating
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) BBS, Form 137 (Rev. 8-99)

File Name S:\NEW GEOTECHNICAL\GINTDATA\PROJECTS\COLES CO (015)\015-0000 CHARLESTON TRAFFIC SIGNALS 2018.GPJ Data Template 06TEMP1.DOT Date Printed 10/3/18
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 PLOT DATE: 10/15/2019

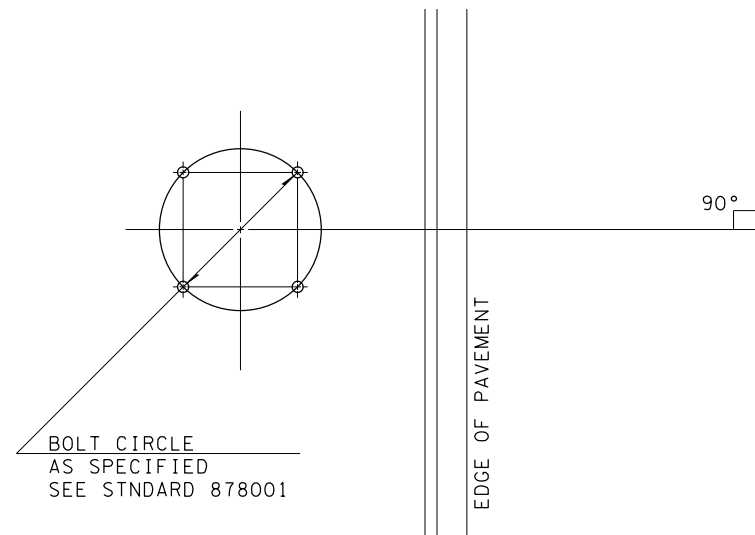
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	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

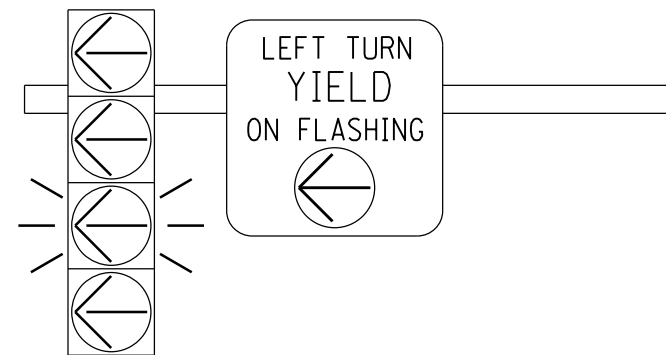
INTERSECTION OF LINCOLN AVE (IL RTE 16) & 6TH ST
BORING LOGS

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
91	(51,51Z)RS-3	COLES	211	173
CONTRACT NO. 74694				
ILLINOIS FED. AID PROJECT				

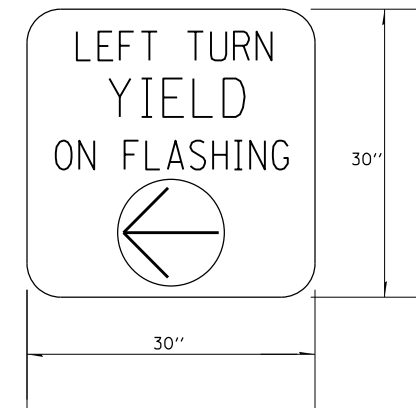


DETAIL OF MAST ARM FOUNDATION
BOLT PATTERN

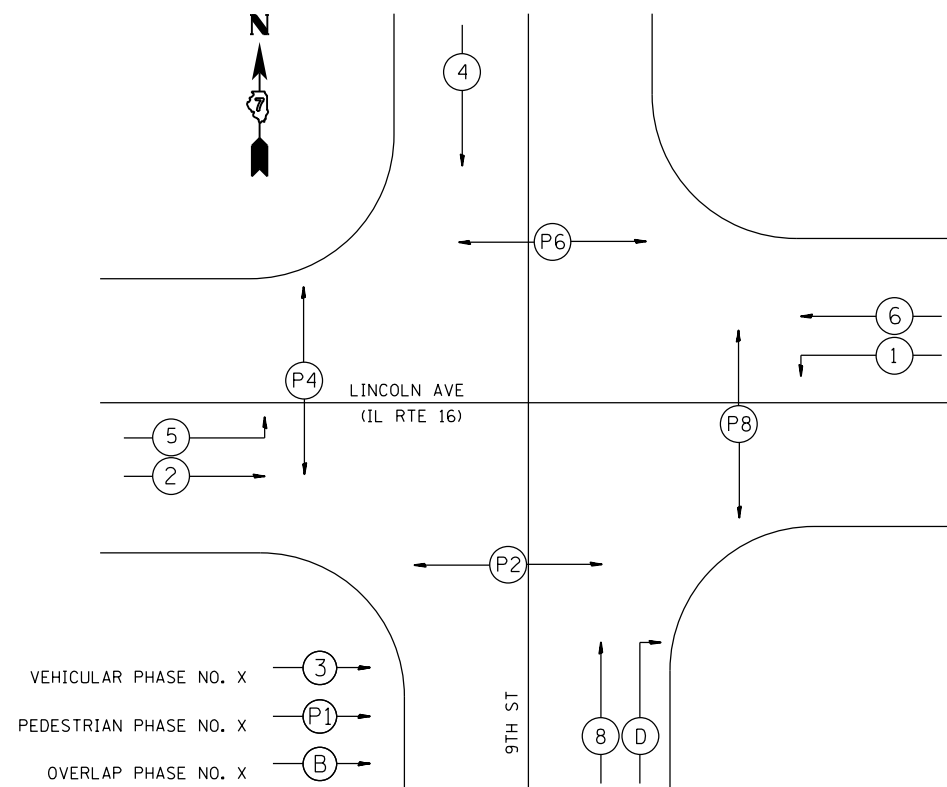


FLASHING YELLOW ARROW
SIGN PANEL DETAILS

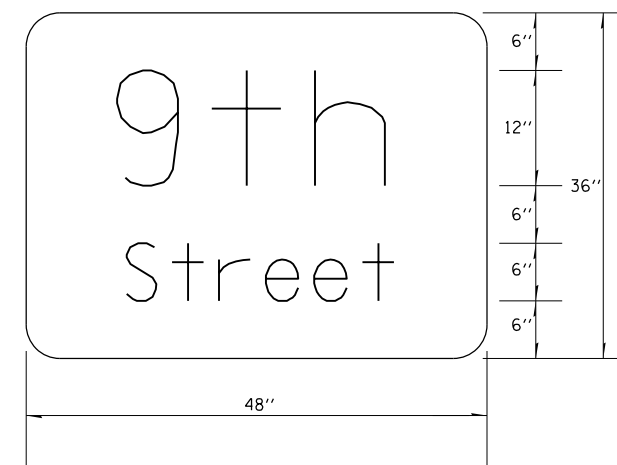
1. SIGN SHALL HAVE A BLACK REFLECTORIZED LEGEND AND BORDER ON A WHITE REFLECTORIZED BACKGROUND. ARROW IS YELLOW ON A BLACK BACKGROUND.
2. AP SHEETING.
3. SIGN TO BE INSTALLED DIRECTLY ADJACENT TO FYA SIGNAL HEAD ON MAST ARM.
4. ILLINOIS STANDARD R10-1109a SIGN.



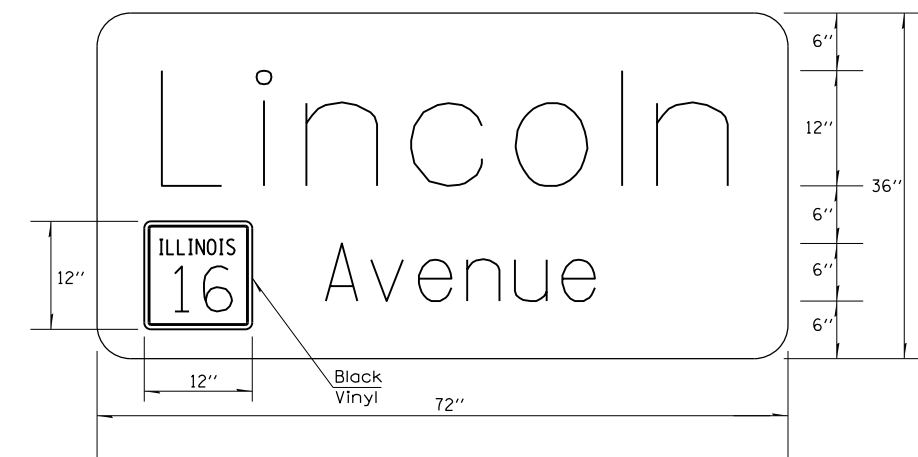
TO BE INSTALLED ON WESTBOUND MAST ARM (STA 536+61 42.5' LT)
TO BE INSTALLED ON EASTBOUND MAST ARM (STA 537+61.3 47.5' RT)



PHASE DESIGNATION DIAGRAM



TO BE INSTALLED ON WESTBOUND MAST ARM (STA 536+61 42.5' LT)
TO BE INSTALLED ON EASTBOUND MAST ARM (STA 537+61.3 47.5' RT)



TO BE INSTALLED ON SOUTHBOUND MAST ARM (STA 536+84.8 61.2' RT)
TO BE INSTALLED ON NORTHBOUND MAST ARM (STA 537+40 67' LT)

SIGN PANEL DETAILS

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INTERSECTION OF LINCOLN AVE (IL RTE 15) & 9TH ST
DETAILS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
91	(51,51Z)RS-3	COLES	211	174
CONTRACT NO. 74694				
ILLINOIS FED. AID PROJECT				

SCALE: SHEET OF SHEETS STA. TO STA.

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PLOT SCALE = 20.0000 "/in.	DRAWN -	REVISED -
PLOT DATE = 10/15/2019	CHECKED -	REVISED -
	DATE -	REVISED -

BILL OF MATERIALS-9TH STREET

ITEM	UNIT	QUANTITY
SIGN PANEL-TYPE 1	SQ FT	12.5
SIGN PANEL-TYPE 2	SQ FT	60
SERVICE INSTALLATION, TYPE A	EACH	1
UNDERGROUND CONDUIT, PVC, 3/4" DIA	FOOT	72
UNDERGROUND CONDUIT, PVC, 1" DIA	FOOT	790
UNDERGROUND CONDUIT, PVC, 1 1/2" DIA	FOOT	51
UNDERGROUND CONDUIT, PVC, 2" DIA	FOOT	90
UNDERGROUND CONDUIT, PVC, 4" DIA	FOOT	220
UNDERGROUND CONDUIT, PVC, 5" DIA	FOOT	15
HANDHOLE	EACH	3
DOUBLE HANDHOLE	EACH	1
GULFBOX JUNCTION	EACH	7
ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 3-1/C NO 8	FOOT	704
FULL-ACTUATED CONTROLLER AND TYPE IV CABINET	EACH	1
UNINTERRUPTABLE POWER SUPPLY, EXTENDED	EACH	1
TRANSCEIVER-FIBER OPTIC	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL, NO 14 3C	FOOT	1027
ELECTRIC CABLE IN CONDUIT, SIGNAL, NO 14 5C	FOOT	2347
ELECTRIC CABLE IN CONDUIT, SIGNAL, NO 14 7C	FOOT	839
ELECTRIC CABLE IN CONDUIT, LEAD-IN NO 14 1 PAIR	FOOT	1635
ELECTRIC CABLE IN CONDUIT, SERVICE, NO 6 2C	FOOT	19
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO 6 1C	FOOT	433
TRAFFIC SIGNAL POST, GALVANIZED STEEL 12 FT	EACH	2
TRAFFIC SIGNAL POST, GALVANIZED STEEL 14 FT	EACH	1
TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT	EACH	2
TRAFFIC SIGNAL POST, GALVANIZED STEEL 18 FT	EACH	1
PEDESTRIAN PUSH-BUTTON POST	EACH	3
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE, 20 FT	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE, 32 FT	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE, 44 FT	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE, 48 FT	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	18
CONCRETE FOUNDATION, TYPE C	FOOT	3.5
CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	23.5
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	28
SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	9
SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 4-SECTION, MAST ARM MOUNTED	EACH	2
SIGNAL HEAD, POLYCARBONATE, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED	EACH	2
SIGNAL HEAD, POLYCARBONATE, LED, 2-FACE, 1-3 SECTION, 1-4 SECTION, BRACKET MOUNTED	EACH	2
PEDESTRIAN SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, BRACKET MOUNTED WITH COUNT DOWN TIMER	EACH	4
PEDESTRIAN SIGNAL HEAD, POLYCARBONATE, LED, 2-FACE, BRACKET MOUNTED WITH COUNT DOWN TIMER	EACH	2
TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	19
INDUCTIVE LOOP DETECTOR	EACH	10
DETECTOR LOOP, TYPE I	FOOT	790

ITEM	UNIT	QUANTITY
TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1
REMOVE EXISTING SERVICE INSTALLATION	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING HANDHOLE	EACH	4
REMOVE EXISTING DOUBLE HANDHOLE	EACH	1
REMOVE EXISTING CONCRETE FOUNDATION	EACH	12
LUMINAIRE, LED, ROADWAY, OUTPUT DESIGNATION G	EACH	4
ACCESSIBLE PEDESTRIAN SIGNALS	EACH	8

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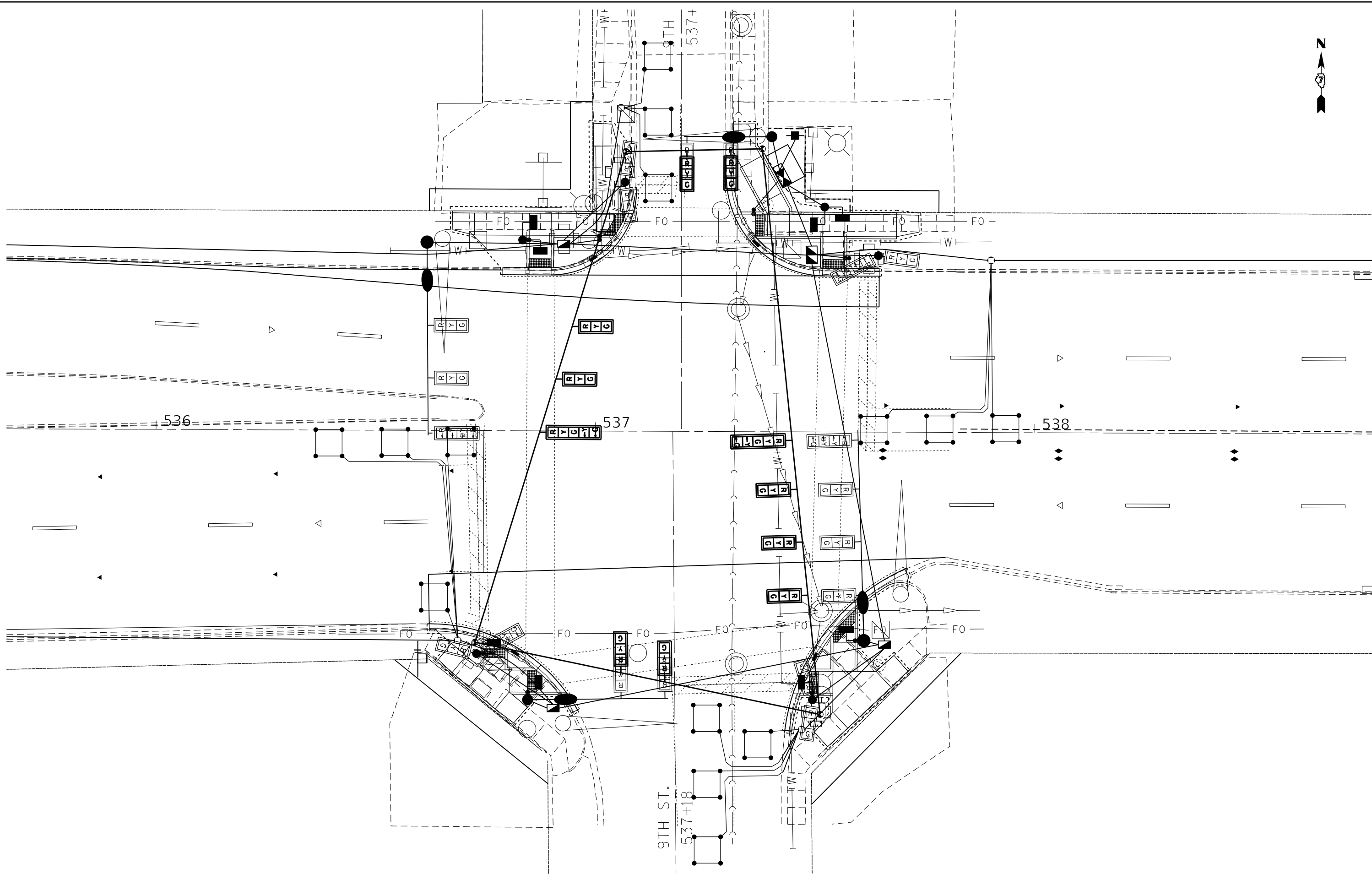
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	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**INTERSECTION OF LINCOLN AVE (IL ROUTE 16) & 9TH ST
BILL OF MATERIALS**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
91	(51,51Z)RS-3	COLES	211	175
CONTRACT NO. 74694				
ILLINOIS FED. AID PROJECT				



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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**INTERSECTION OF LINCOLN AVE (IL RTE 16) & 9TH ST
EXISTING UTILITY LAYOUT**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
91	(51,51Z)RS-3	COLES	211	176
CONTRACT NO. 74694				
ILLINOIS FED. AID PROJECT				

REMOVAL ITEMS

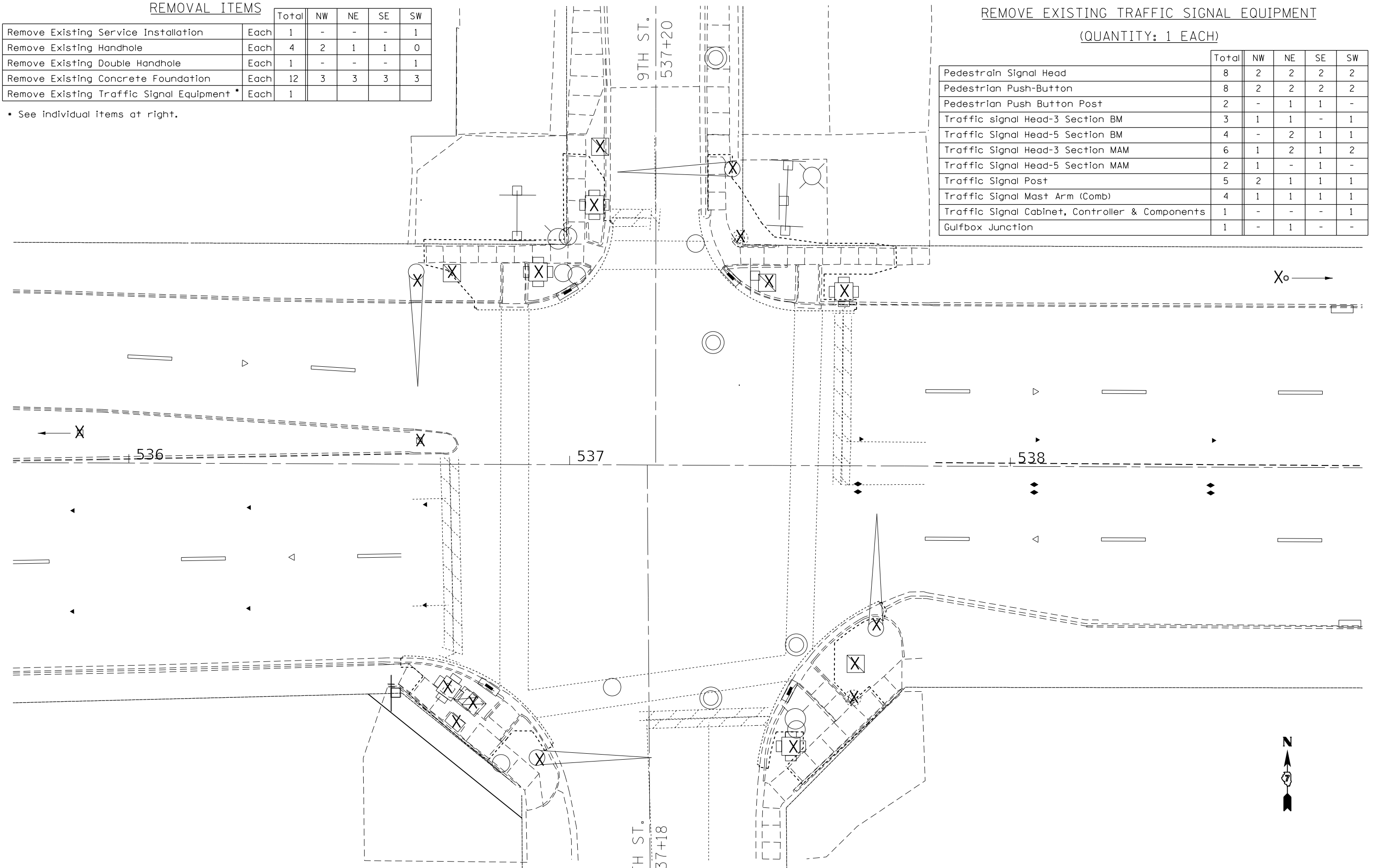
	Total	NW	NE	SE	SW
Remove Existing Service Installation	Each 1	-	-	-	1
Remove Existing Handhole	Each 4	2	1	1	0
Remove Existing Double Handhole	Each 1	-	-	-	1
Remove Existing Concrete Foundation	Each 12	3	3	3	3
Remove Existing Traffic Signal Equipment *	Each 1				

* See individual items at right.

REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT

(QUANTITY: 1 EACH)

	Total	NW	NE	SE	SW
Pedestrian Signal Head	8	2	2	2	2
Pedestrian Push-Button	8	2	2	2	2
Pedestrian Push Button Post	2	-	1	1	-
Traffic signal Head-3 Section BM	3	1	1	-	1
Traffic Signal Head-5 Section BM	4	-	2	1	1
Traffic Signal Head-3 Section MAM	6	1	2	1	2
Traffic Signal Head-5 Section MAM	2	1	-	1	-
Traffic Signal Post	5	2	1	1	1
Traffic Signal Mast Arm (Comb)	4	1	1	1	1
Traffic Signal Cabinet, Controller & Components	1	-	-	-	1
Gulfbbox Junction	1	-	1	-	-



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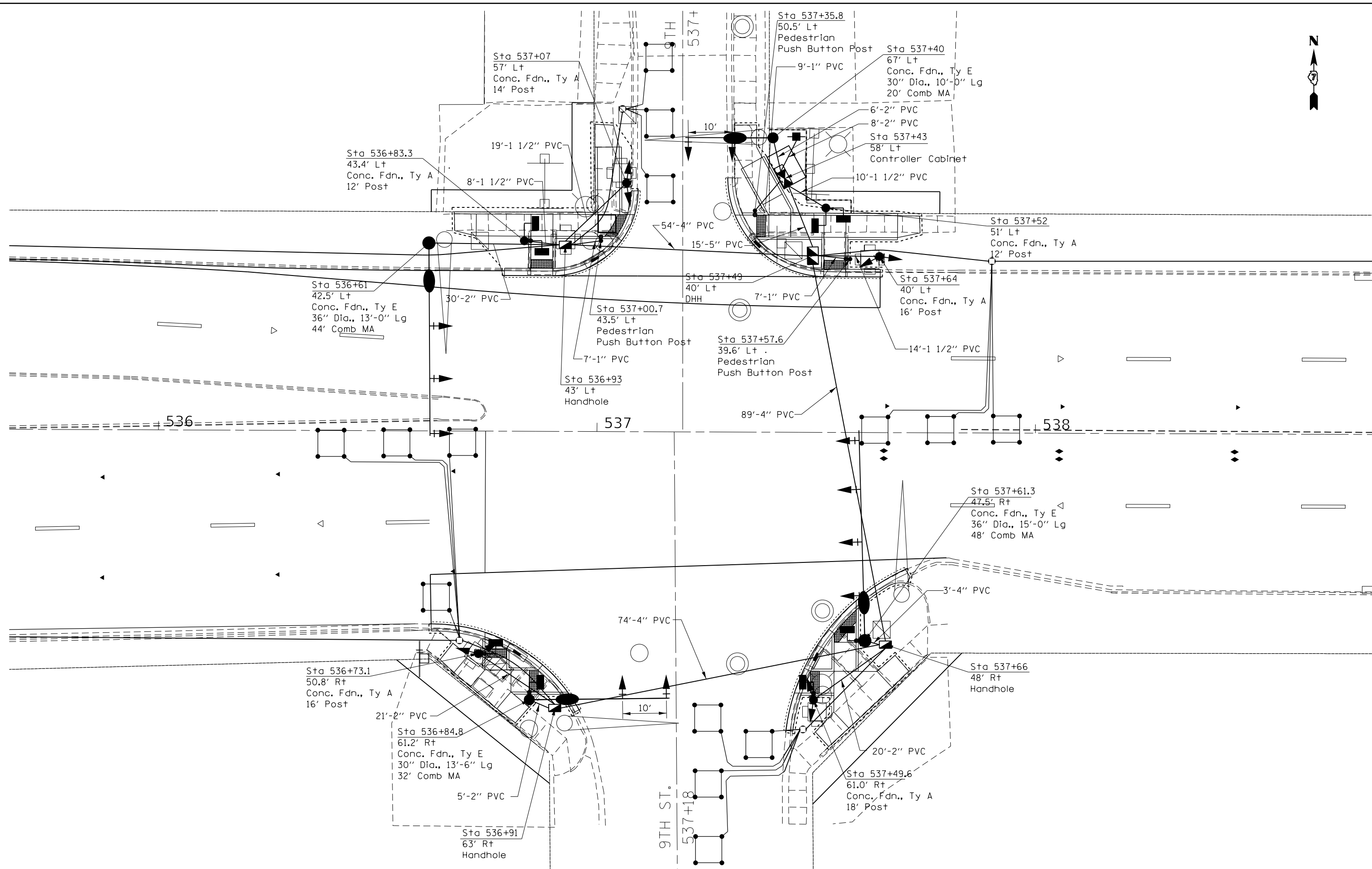
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PLOT DATE = 10/15/2019	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INTERSECTION OF LINCOLN AVE (IL RTE 16) & 9TH ST
TRAFFIC SIGNAL REMOVAL ITEMS

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
91	(51.51Z)RS-3	COLES	211	178
CONTRACT NO. 74694				
ILLINOIS FED. AID PROJECT				



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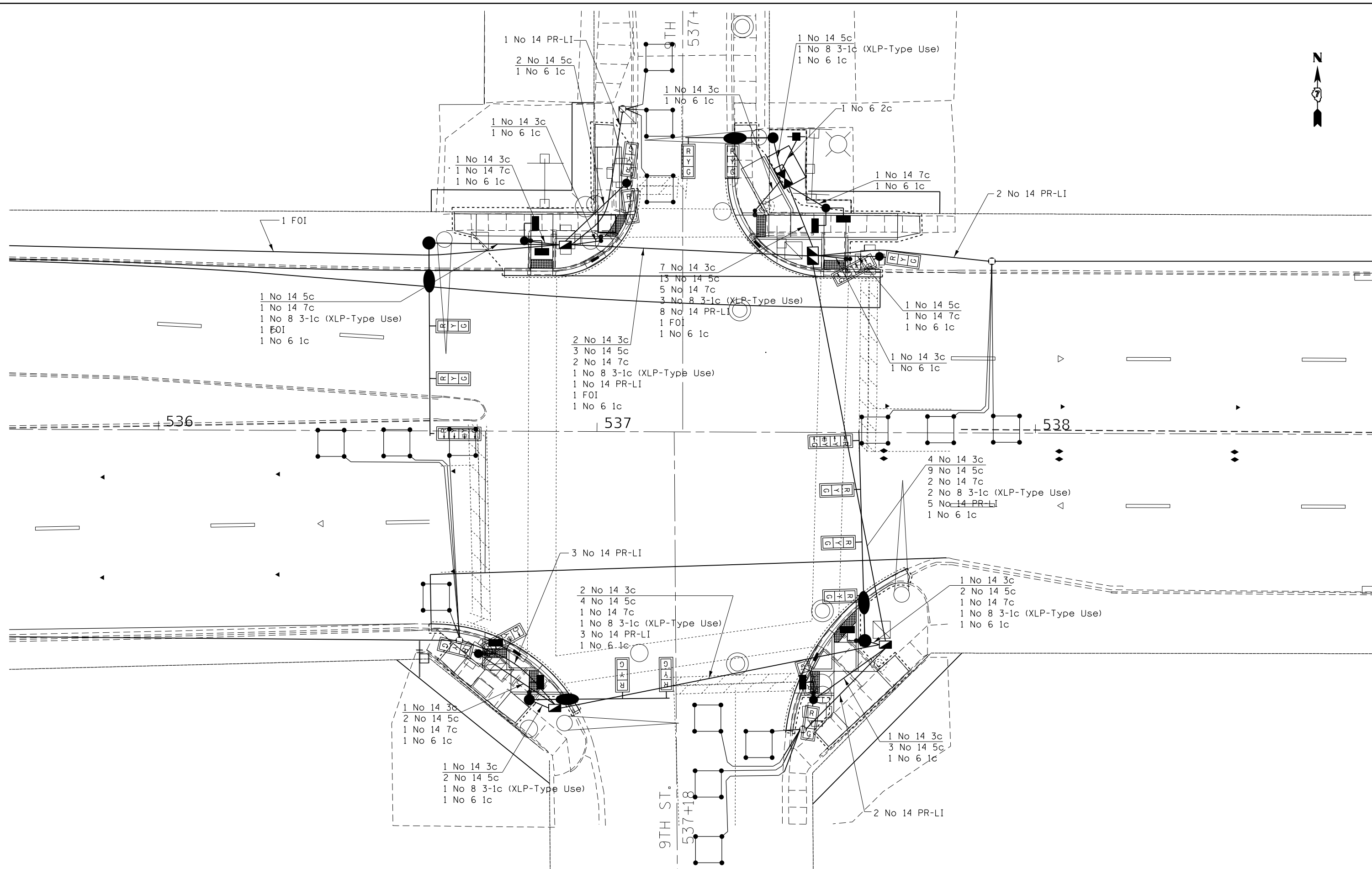
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PLOT DATE = 10/15/2019	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INTERSECTION OF LINCOLN AVE (IL RTE 16) & 9TH ST
SIGNAL LAYOUT

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
91	(51,51Z)RS-3	COLES	211	179
CONTRACT NO. 74694				
ILLINOIS		FED. AID PROJECT		



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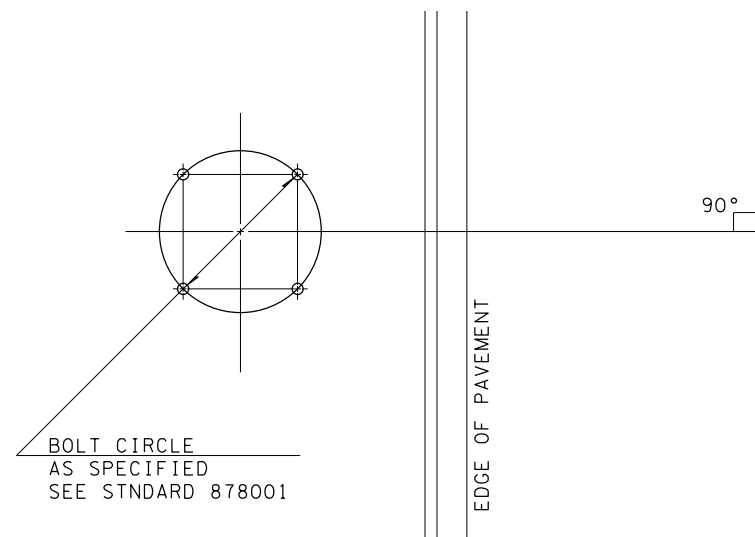
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

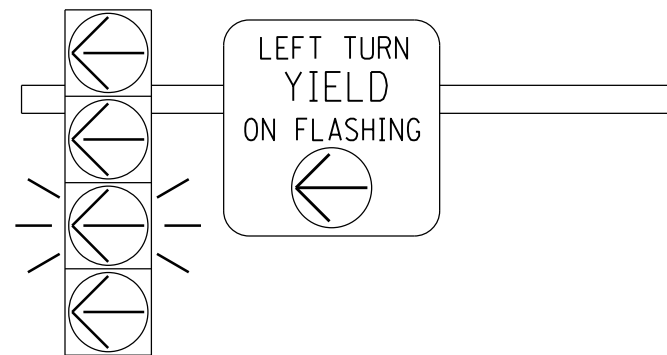
INTERSECTION OF LINCOLN AVE (IL RTE 16) & 9TH ST
CABLE LAYOUT

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
91	(51,51Z)RS-3	COLES	211	180
CONTRACT NO. 74694				
ILLINOIS FED. AID PROJECT				

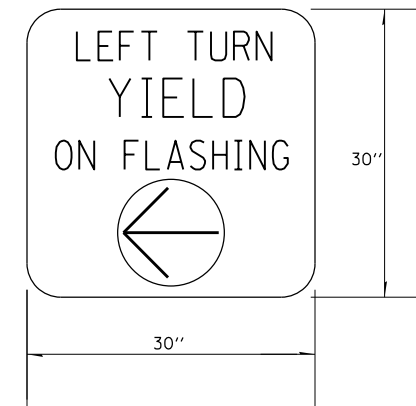


DETAIL OF MAST ARM FOUNDATION
BOLT PATTERN

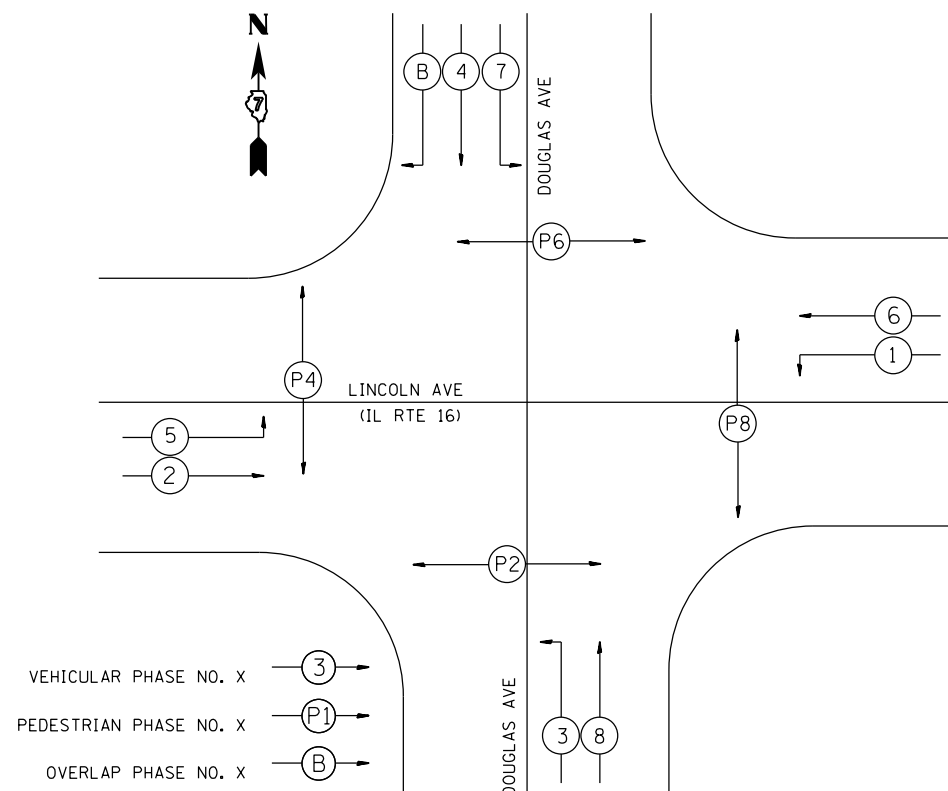


FLASHING YELLOW ARROW
SIGN PANEL DETAILS

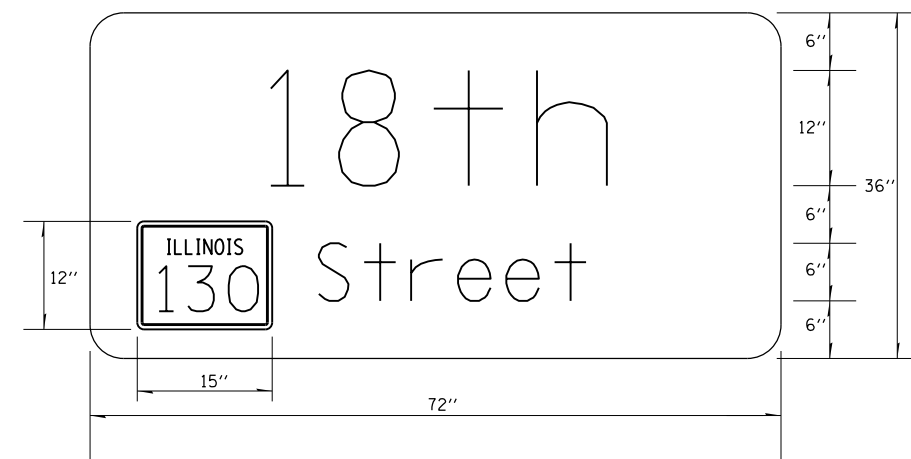
1. SIGN SHALL HAVE A BLACK REFLECTORIZED LEGEND AND BORDER ON A WHITE REFLECTORIZED BACKGROUND. ARROW IS YELLOW ON A BLACK BACKGROUND.
2. AP SHEETING.
3. SIGN TO BE INSTALLED DIRECTLY ADJACENT TO FYA SIGNAL HEAD ON MAST ARM.
4. ILLINOIS STANDARD R10-1109a SIGN.



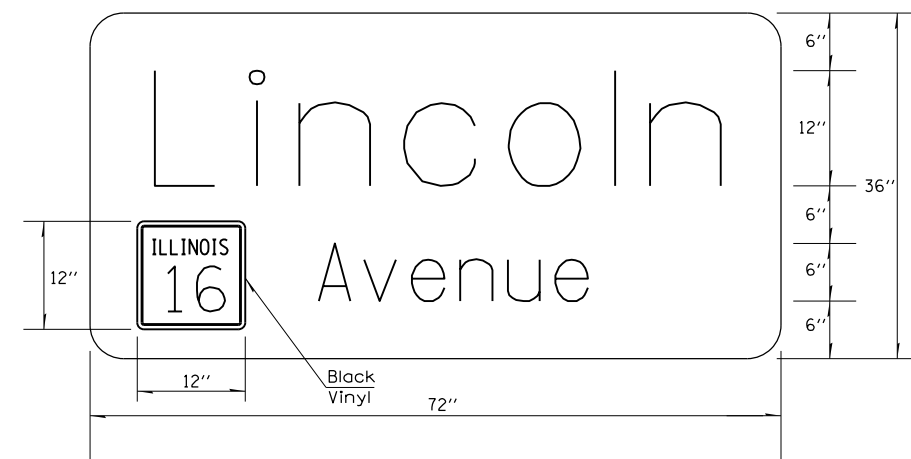
TO BE INSTALLED ON WESTBOUND MAST ARM (STA 563+34 50' LT)
TO BE INSTALLED ON EASTBOUND MAST ARM (STA 564+70 47' RT)
TO BE INSTALLED ON SOUTHBOUND MAST ARM (STA 563+55 82' RT)
TO BE INSTALLED ON NORTHBOUND MAST ARM (STA 564+81 80' LT)



PHASE DESIGNATION DIAGRAM



TO BE INSTALLED ON WESTBOUND MAST ARM (STA 563+34 50' LT)
TO BE INSTALLED ON EASTBOUND MAST ARM (STA 564+70 47' RT)



TO BE INSTALLED ON SOUTHBOUND MAST ARM (STA 563+55 82' RT)
TO BE INSTALLED ON NORTHBOUND MAST ARM (STA 564+81 80' LT)

SIGN PANEL DETAILS

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INTERSECTION OF LINCOLN AVE (IL RTE 16) & 18TH ST (IL RTE 130)
DETAILS

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
91	(51,51Z)RS-3	COLES	211	183
CONTRACT NO. 74694				
ILLINOIS FED. AID PROJECT				

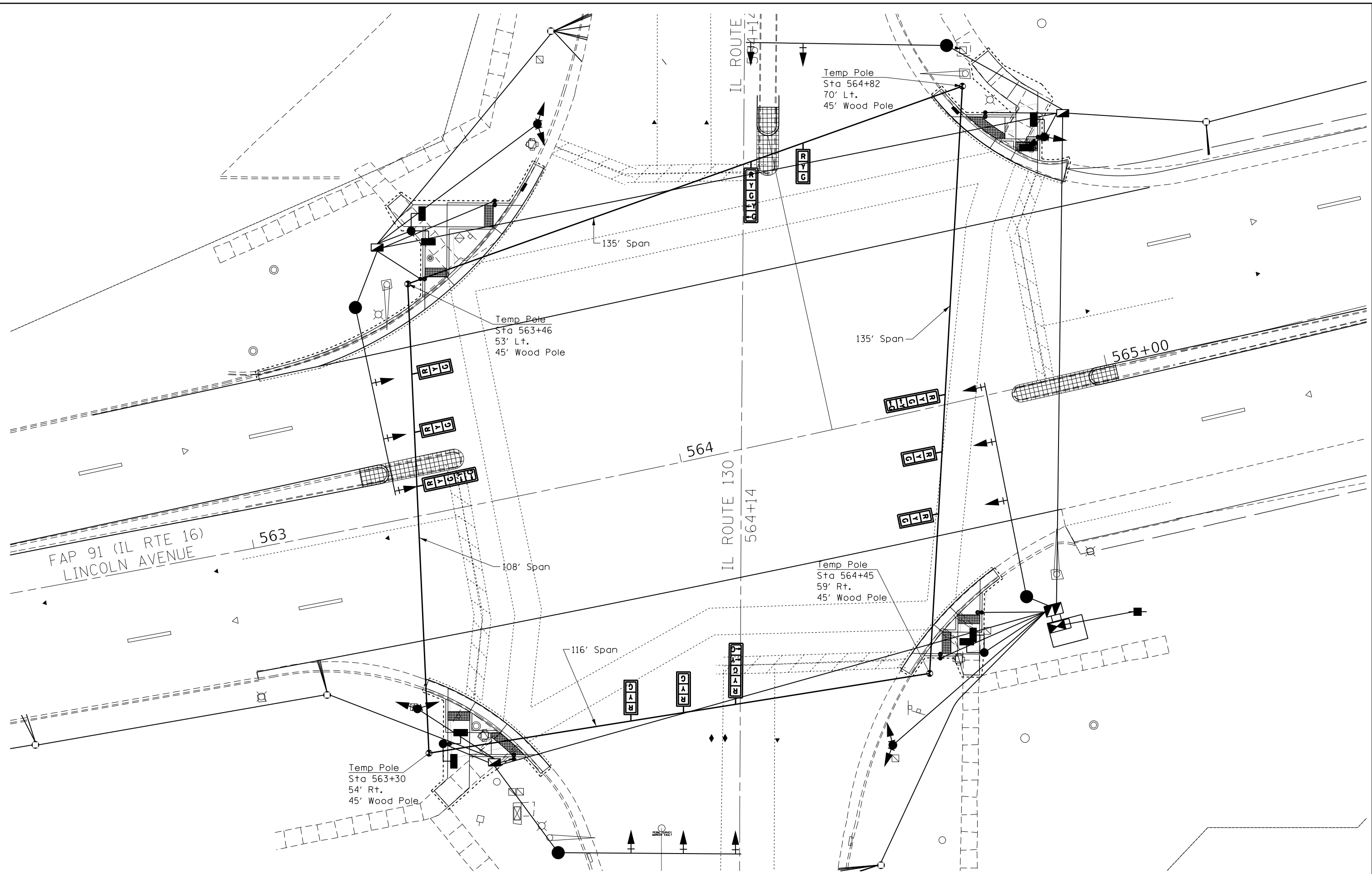
BILL OF MATERIALS-18TH STREET

ITEM	UNIT	QUANTITY
SIGN PANEL-TYPE 1	SQ FT	25
SIGN PANEL-TYPE 2	SQ FT	72
SERVICE INSTALLATION, TYPE A	EACH	1
UNDERGROUND CONDUIT, PVC, 3/4" DIA	FOOT	218
UNDERGROUND CONDUIT, PVC, 1" DIA	FOOT	522
UNDERGROUND CONDUIT, PVC, 1 1/2" DIA	FOOT	402
UNDERGROUND CONDUIT, PVC, 2" DIA	FOOT	51
UNDERGROUND CONDUIT, PVC, 4" DIA	FOOT	400
UNDERGROUND CONDUIT, PVC, 5" DIA	FOOT	8
HANDHOLE	EACH	3
DOUBLE HANDHOLE	EACH	1
GULFBOX JUNCTION	EACH	8
FULL-ACTUATED CONTROLLER AND TYPE IV CABINET	EACH	1
UNINTERRUPTABLE POWER SUPPLY, EXTENDED	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL, NO 14 3C	FOOT	1408
ELECTRIC CABLE IN CONDUIT, SIGNAL, NO 14 5C	FOOT	1717
ELECTRIC CABLE IN CONDUIT, SIGNAL, NO 14 7C	FOOT	2489
ELECTRIC CABLE IN CONDUIT, LEAD-IN NO 14 1 PAIR	FOOT	2985
ELECTRIC CABLE IN CONDUIT, SERVICE, NO 6 2C	FOOT	31
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO 6 1C	FOOT	815
TRAFFIC SIGNAL POST, GALVANIZED STEEL 12 FT	EACH	3
TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT	EACH	3
TRAFFIC SIGNAL POST, GALVANIZED STEEL 18 FT	EACH	1
PEDESTRIAN PUSH-BUTTON POST	EACH	6
STEEL MAST ARM ASSEMBLY AND POLE, 42 FT	EACH	2
STEEL MAST ARM ASSEMBLY AND POLE, 46 FT	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 50 FT	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	21
CONCRETE FOUNDATION, TYPE C	FOOT	3.5
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	54
SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	7
SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 4-SECTION, MAST ARM MOUNTED	EACH	4
SIGNAL HEAD, POLYCARBONATE, LED, 2-FACE, 1-3 SECTION, 1-4 SECTION, BRACKET MOUNTED	EACH	4
PEDESTRIAN SIGNAL HEAD, POLYCARBONATE, LED, 2-FACE, BRACKET MOUNTED WITH COUNT DOWN TIMER	EACH	4
TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	19
INDUCTIVE LOOP DETECTOR	EACH	12
DETECTOR LOOP, TYPE I	FOOT	1363
PEDESTRIAN PUSH-BUTTON	EACH	8
TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1
REMOVE EXISTING SERVICE INSTALLATION	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING HANDHOLE	EACH	8
REMOVE EXISTING DOUBLE HANDHOLE	EACH	1
REMOVE EXISTING CONCRETE FOUNDATION	EACH	10

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						SCALE:	SHEET	OF	SHEETS	STA.	TO	STA.	ILLINOIS FED. AID PROJECT	
											CONTRACT NO. 74694			

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INTERSECTION OF LINCOLN AVE (IL RTE 16) & 18TH ST (IL RTE 130)
TEMPORARY SIGNAL LAYOUT

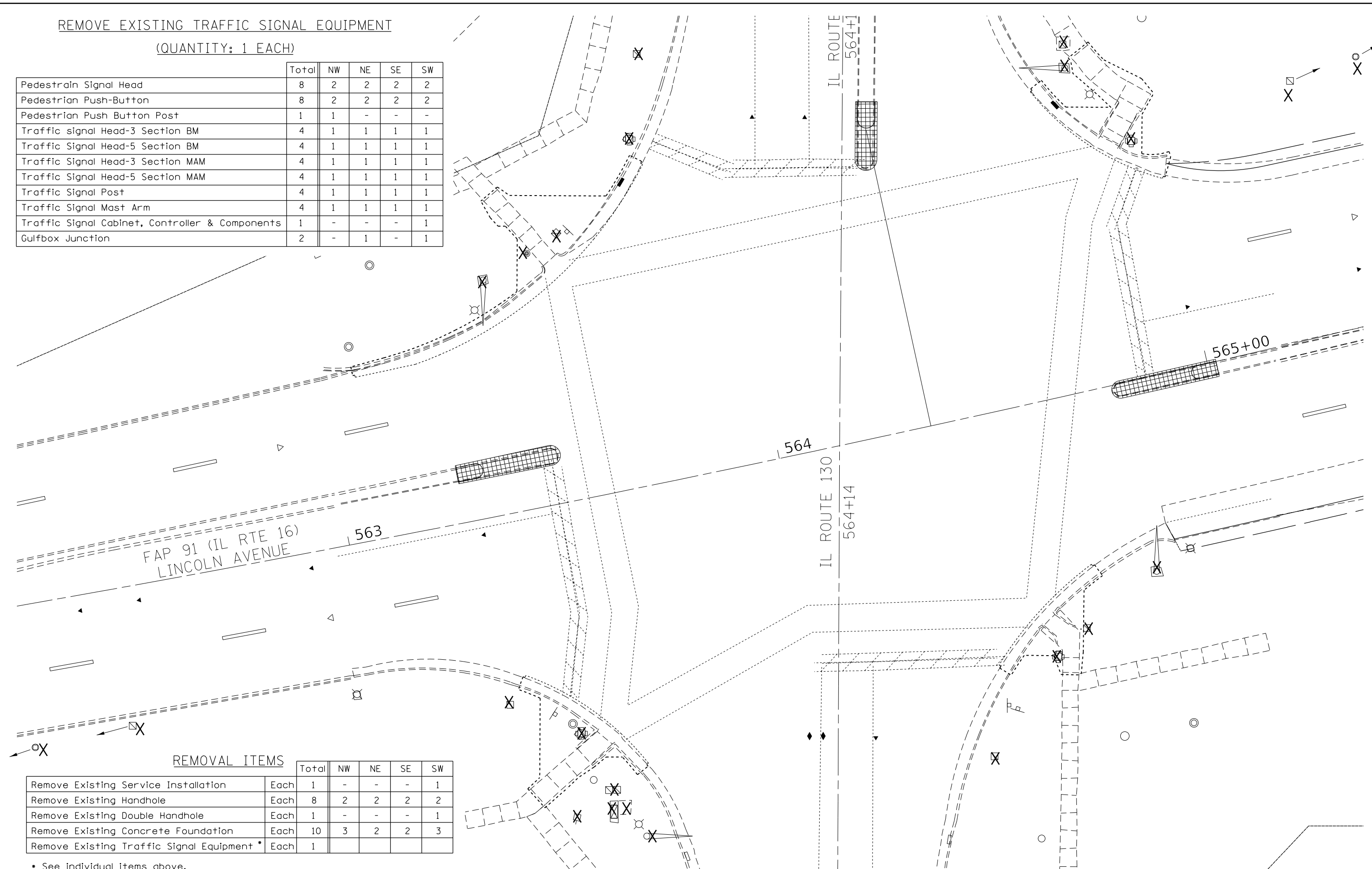
SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
91	(51,51Z)RS-3	COLES	211	186
CONTRACT NO. 74694				
ILLINOIS FED. AID PROJECT				

REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT

(QUANTITY: 1 EACH)

	Total	NW	NE	SE	SW
Pedestrian Signal Head	8	2	2	2	2
Pedestrian Push-Button	8	2	2	2	2
Pedestrian Push Button Post	1	1	-	-	-
Traffic signal Head-3 Section BM	4	1	1	1	1
Traffic Signal Head-5 Section BM	4	1	1	1	1
Traffic Signal Head-3 Section MAM	4	1	1	1	1
Traffic Signal Head-5 Section MAM	4	1	1	1	1
Traffic Signal Post	4	1	1	1	1
Traffic Signal Mast Arm	4	1	1	1	1
Traffic Signal Cabinet, Controller & Components	1	-	-	-	1
Gulfbox Junction	2	-	1	-	1



REMOVAL ITEMS

	Total	NW	NE	SE	SW
Remove Existing Service Installation	Each 1	-	-	-	1
Remove Existing Handhole	Each 8	2	2	2	2
Remove Existing Double Handhole	Each 1	-	-	-	1
Remove Existing Concrete Foundation	Each 10	3	2	2	3
Remove Existing Traffic Signal Equipment *	Each 1				

* See individual items above.

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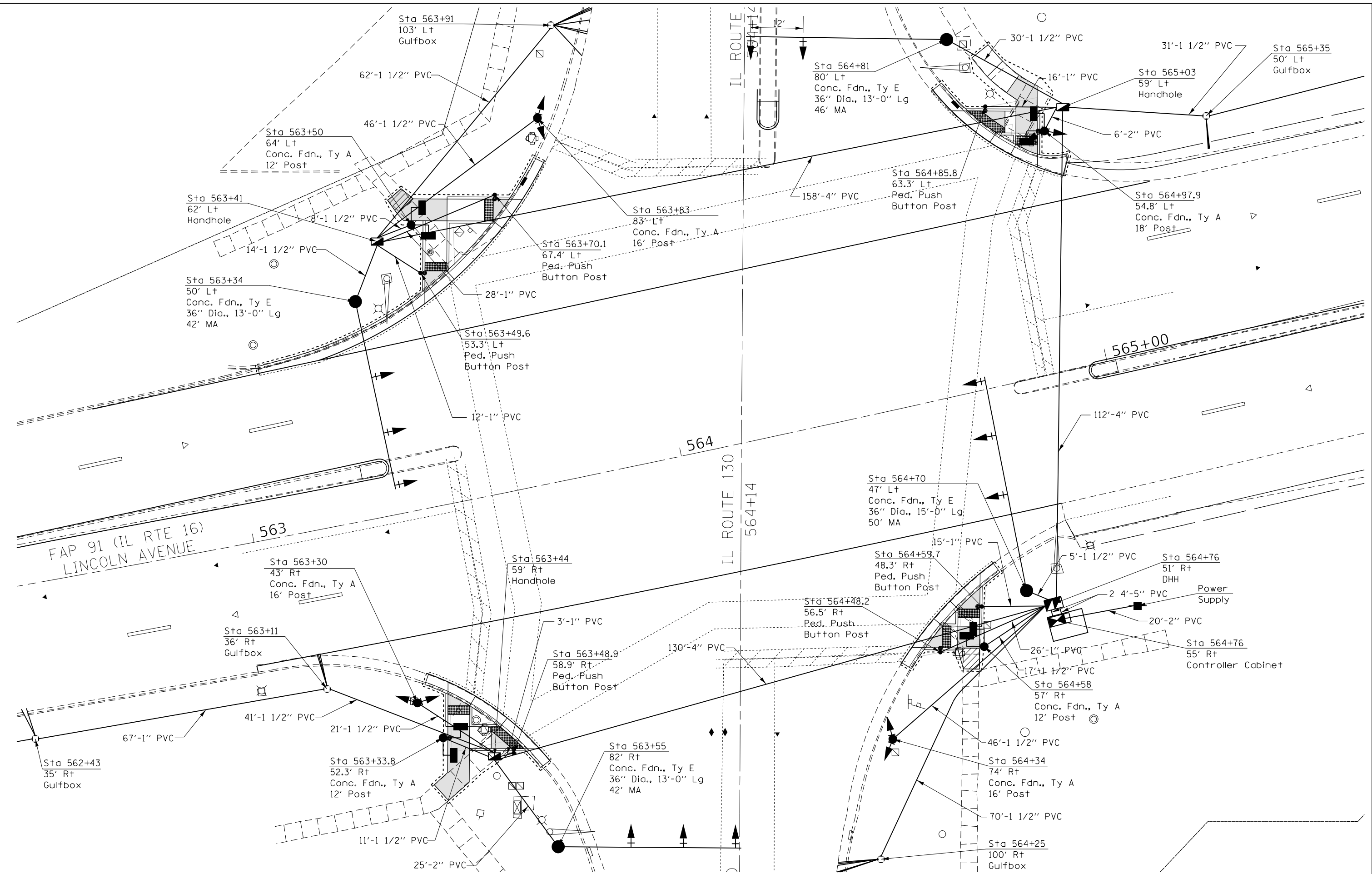
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INTERSECTION OF LINCOLN AVE (IL RTE 16) & 18TH ST (IL RTE 130)
TRAFFIC SIGNAL REMOVAL ITEMS

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
91	(51,51Z)RS-3	COLES	211	187
CONTRACT NO. 74694				
ILLINOIS FED. AID PROJECT				

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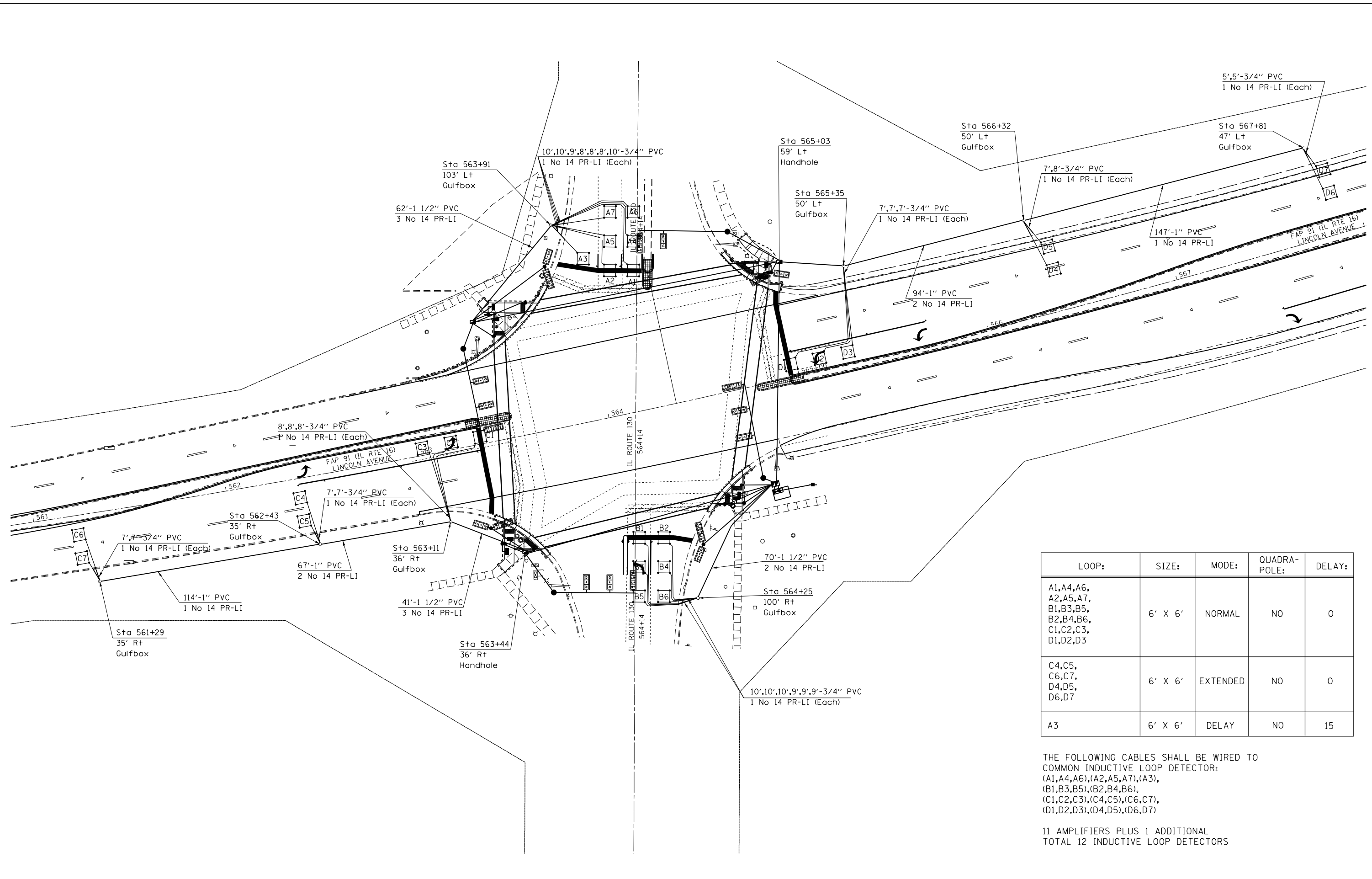
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**INTERSECTION OF LINCOLN AVE (IL RTE 16) & 18TH ST (IL RTE 130)
 SIGNAL LAYOUT**

F.A.P. RTE. 91	SECTION (51.512)RS-3	COUNTY COLES	TOTAL SHEETS 211	SHEET NO. 188
CONTRACT NO. 74694				
ILLINOIS FED. AID PROJECT				

SCALE: SHEET OF SHEETS STA. TO STA.

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LOOP:	SIZE:	MODE:	QUADRA-POLE:	DELAY:
A1,A4,A6, A2,A5,A7, B1,B3,B5, B2,B4,B6, C1,C2,C3, D1,D2,D3	6' X 6'	NORMAL	NO	0
C4,C5, C6,C7, D4,D5, D6,D7	6' X 6'	EXTENDED	NO	0
A3	6' X 6'	DELAY	NO	15

THE FOLLOWING CABLES SHALL BE WIRED TO
 COMMON INDUCTIVE LOOP DETECTOR:
 (A1,A4,A6),(A2,A5,A7),(A3),
 (B1,B3,B5),(B2,B4,B6),
 (C1,C2,C3),(C4,C5),(C6,C7),
 (D1,D2,D3),(D4,D5),(D6,D7)

11 AMPLIFIERS PLUS 1 ADDITIONAL
 TOTAL 12 INDUCTIVE LOOP DETECTORS

USER NAME = steffemk	DESIGNED -	REVISED -
	DRAWN -	REVISED -
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PLOT DATE = 10/15/2019	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INTERSECTION OF LINCOLN AVE (IL RTE 16) & 18TH ST (IL RTE 130) DETECTOR LOOPS				
SCALE:	SHEET	OF	SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
91	(51,512)RS-3	COLES	211	190
CONTRACT NO. 74694				
ILLINOIS FED. AID PROJECT				



SOIL BORING LOG

ROUTE FAP 91 (IL-16) DESCRIPTION Southeast Quad LOGGED BY E. Sandschafer

SECTION (50,51,51Z)RS-3 LOCATION IL 16 at IL 130, SEC. 15, TWP. 12N, RNG. 9E, 3 PM

COUNTY Coles DRILLING METHOD Hollow stem auger & split spoon HAMMER TYPE Auto 140#

STRUCT. NO.	Station	D E P T H	B L O W S	U C S Qu	M O I S T T	Surface Water Elev.	Stream Bed Elev.	Groundwater Elev.:	D E P T H	B L O W S	U C S Qu	M O I S T T
		(ft)	/6"	(tsf)	(%)	ft	ft	ft	(ft)	/6"	(tsf)	(%)
						N/A	N/A					
								▼ First Encounter				
								▼ Upon Completion				
								▼ After 168 Hrs.				
Topsoil.	703.25								4	1.24	12	
Brown, CLAY									6	B		
Very stiff, moist.			4									
			5	3.3	22							
			7	B								
	699.00											
Very soft, wet, brown, CLAY LOAM		-5	3									
			3	0.16	22							
			3	B								
Medium, moist.			3									
			3	0.99	14							
			4	B								
	693.50	-10	3									
Stiff, moist, grey, CLAY LOAM TILL			5	1.81	15							
			6	B								
Very stiff.			3									
			4	2.89	12							
			7	B								
Stiff.		-15	2									
			4	1.40	12							
			6	B								
Very stiff.			2									
			4	2.47	13							
			6	B								
	683.50	-20	3									

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer, E-Estimated) Abbreviations W.O.H - Sampler Advanced By Weight of Hammer, W.O.P - Advanced by Weight of Pipe, B.S. - Before Seating The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) BBS, Form 137 (Rev. 8-99)

File Name: S:\NEW GEOTECHNICAL\GINTDATA\PROJECTS\COLES CO (015)\015-0000 CHARLESTON TRAFFIC SIGNALS 2018.GPJ Data Template D6TEMPLE.GDT Date Printed 10/3/18 Latitude W 38.162895 Longitude N 39.484701 Datum Job Number

MODEL: Default FILE: Model: Plot: JobName: 7\Projects\74694\CADD\Drawings\74694_15-18bbs.dgn



SOIL BORING LOG

ROUTE FAP 91 (IL-16) DESCRIPTION Northwest Quad LOGGED BY E. Sandschafer

SECTION (50,51,51Z)RS-3 LOCATION IL 16 at IL 130, SEC. 15, TWP. 12N, RNG. 9E, 3 PM

COUNTY Coles DRILLING METHOD Hollow stem auger & split spoon HAMMER TYPE Auto 140#

STRUCT. NO.	Station	D E P T H	B L O W S	U C S Qu	M O I S T T	Surface Water Elev.	Stream Bed Elev.	Groundwater Elev.:	D E P T H	B L O W S	U C S Qu	M O I S T T
		(ft)	/6"	(tsf)	(%)	ft	ft	ft	(ft)	/6"	(tsf)	(%)
						N/A	N/A					
								▼ First Encounter				
								▼ Upon Completion				
								▼ After 72 Hrs.				
Topsoil.	703.57								4	1.81	13	
Brown, CLAY LOAM									6	B		
Very stiff, moist, with sand and gravel..			4									
			5	2.40	19							
			8	S								
Hard.		-5	3									
			2	4.5	18							
			3	P								
Very stiff			3									
			2	2.47	15							
			5	B								
Stiff.		-10	3									
			4	1.90	12							
			7	B								
Grey, till.			2									
			5	2.06	12							
			8	B								
Rock in front of sampler shoe.		-15	4									
			7	1.90	14							
			8	B								
			2									
			3	2.06	13							
			7	B								
			2									

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer, E-Estimated) Abbreviations W.O.H - Sampler Advanced By Weight of Hammer, W.O.P - Advanced by Weight of Pipe, B.S. - Before Seating The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) BBS, Form 137 (Rev. 8-99)

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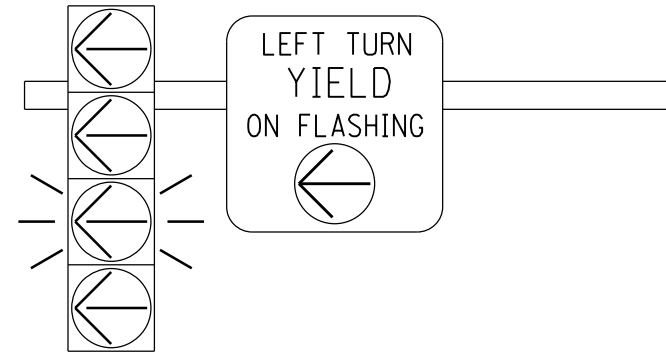
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PLOT DATE = 10/15/2019	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INTERSECTION OF LINCOLN AVE (IL RTE 16) & 18TH ST (IL RTE 130)
BORING LOGS

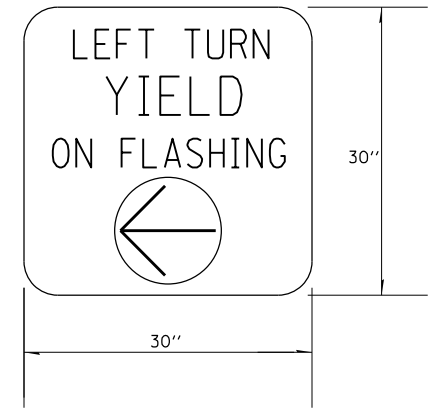
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
91	(51,51Z)RS-3	COLES	211	191
CONTRACT NO. 74694				
ILLINOIS FED. AID PROJECT				

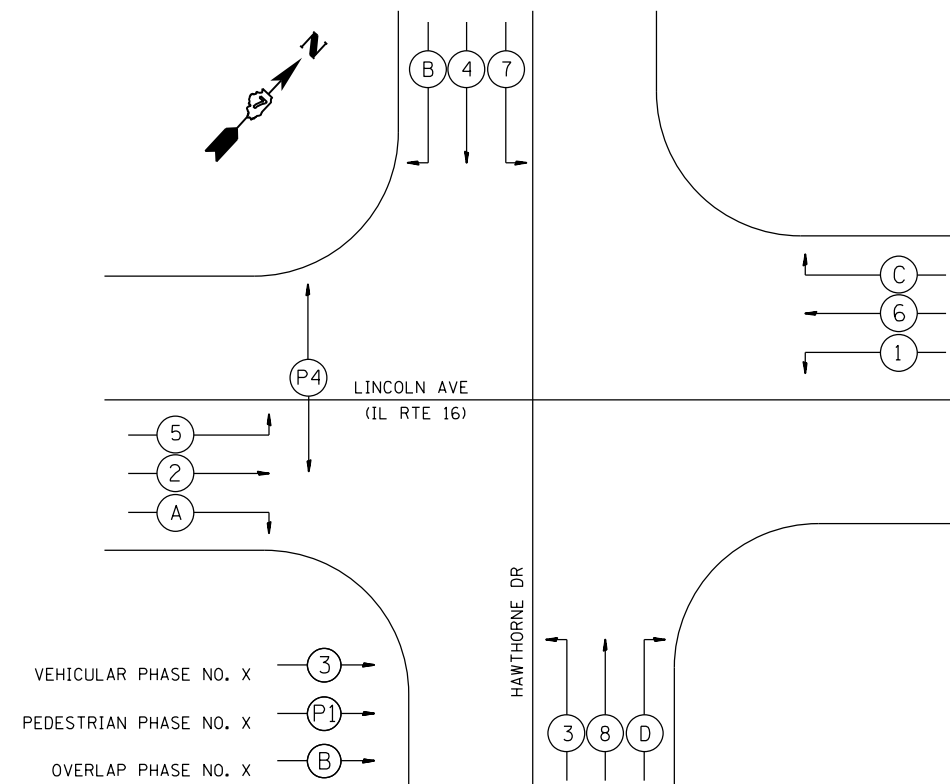


FLASHING YELLOW ARROW
SIGN PANEL DETAILS

1. SIGN SHALL HAVE A BLACK REFLECTORIZED LEGEND AND BORDER ON A WHITE REFLECTORIZED BACKGROUND. ARROW IS YELLOW ON A BLACK BACKGROUND.
2. AP SHEETING.
3. SIGN TO BE INSTALLED DIRECTLY ADJACENT TO FYA SIGNAL HEAD ON MAST ARM.
4. ILLINOIS STANDARD R10-1109a SIGN.



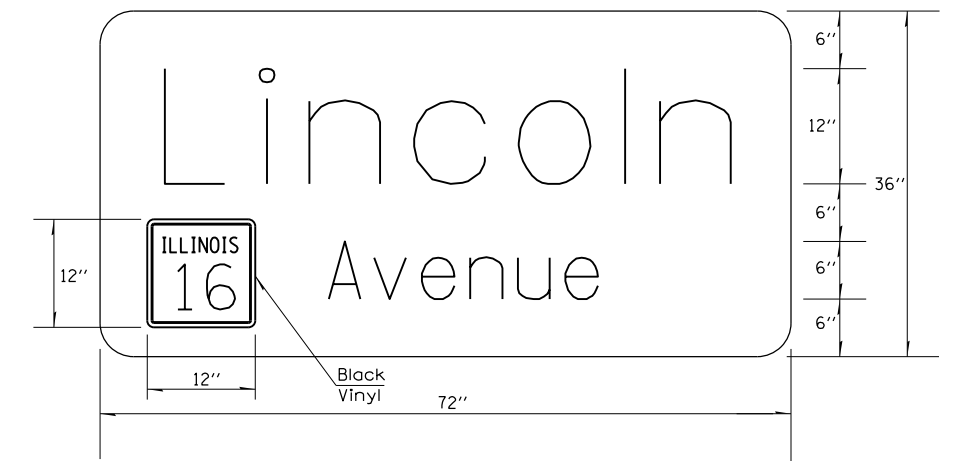
TO BE INSTALLED ON EXISTING WESTBOUND MAST ARM
TO BE INSTALLED ON EXISTING EASTBOUND MAST ARM



PHASE DESIGNATION DIAGRAM



TO BE INSTALLED ON EXISTING WESTBOUND MAST ARM
TO BE INSTALLED ON EXISTING EASTBOUND MAST ARM



TO BE INSTALLED ON EXISTING SOUTHBOUND MAST ARM
TO BE INSTALLED ON EXISTING NORTHBOUND MAST ARM

SIGN PANEL DETAILS

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PLOT DATE = 10/15/2019	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INTERSECTION OF LINCOLN AVE (IL RET 16) & HAWTHORNE DRIVE
DETAILS

SCALE: SHEET OF SHEETS STA. TO STA.

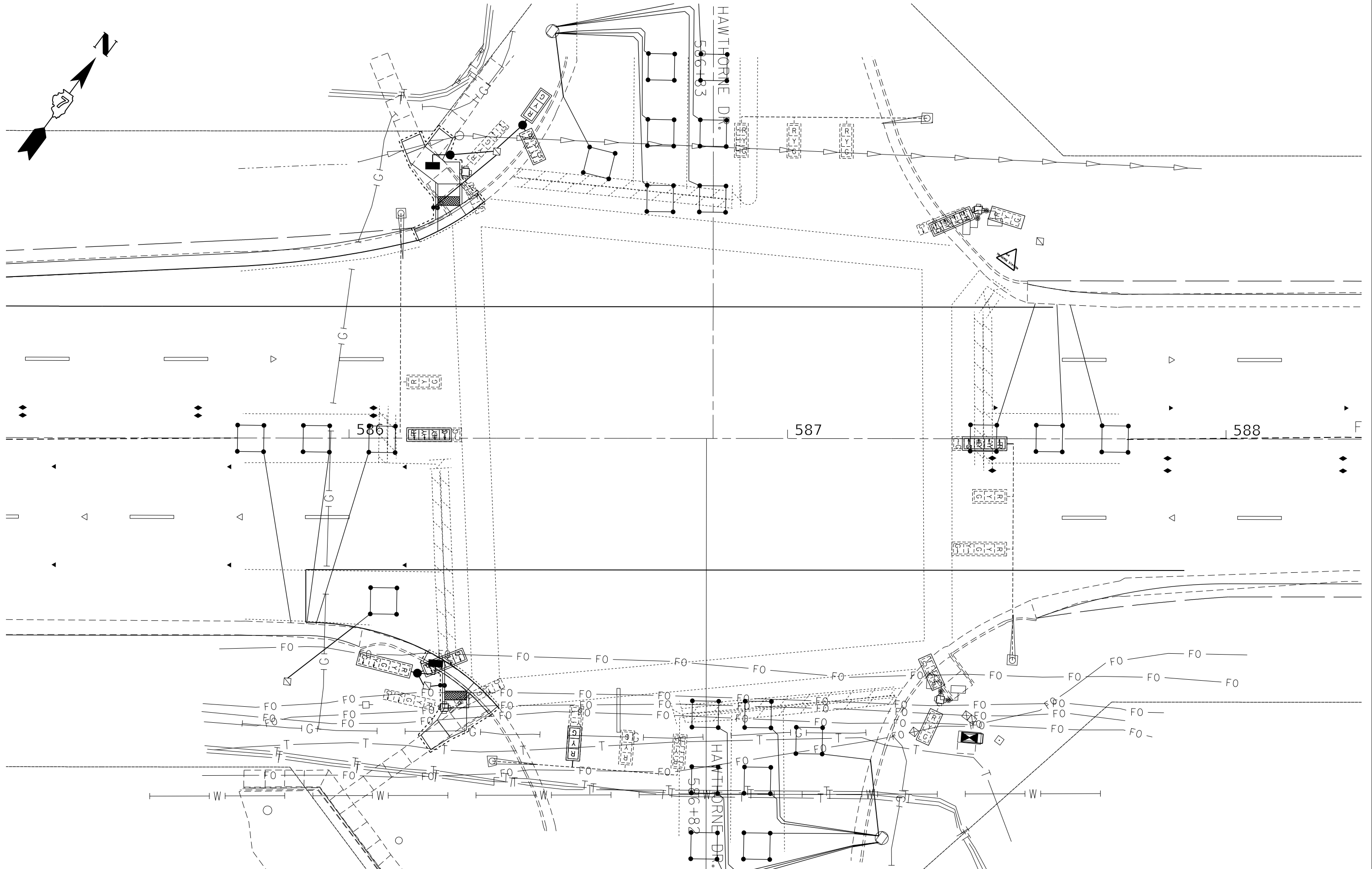
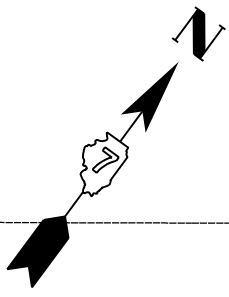
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
91	(51,51Z)RS-3	COLES	211	192
CONTRACT NO. 74694				
ILLINOIS		FED. AID PROJECT		

BILL OF MATERIALS-HAWTHORNE DRIVE

ITEM	UNIT	QUANTITY
SIGN PANEL-TYPE 1	SQ FT	12.5
SIGN PANEL-TYPE 2	SQ FT	78
UNDERGROUND CONDUIT, PVC, 1" DIA	FOOT	73
UNDERGROUND CONDUIT, PVC, 1 1/2" DIA	FOOT	18
UNDERGROUND CONDUIT, PVC, 2" DIA	FOOT	3
FULL-ACTUATED CONTROLLER AND TYPE IV CABINET	EACH	1
UNINTERRUPTABLE POWER SUPPLY, EXTENDED	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL, NO 14 3C	FOOT	477
ELECTRIC CABLE IN CONDUIT, SIGNAL, NO 14 5C	FOOT	1110
ELECTRIC CABLE IN CONDUIT, SIGNAL, NO 14 7C	FOOT	352
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO 6 1C	FOOT	627
TRAFFIC SIGNAL POST, ALUMINUM 12 FT	EACH	1
PEDESTRIAN PUSH-BUTTON POST	EACH	2
CONCRETE FOUNDATION, TYPE A	FOOT	9
SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	1
SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	1
SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 4-SECTION, BRACKET MOUNTED	EACH	2
SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 4-SECTION, MAST ARM MOUNTED	EACH	2
PEDESTRIAN SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, BRACKET MOUNTED WITH COUNT DOWN TIMER	EACH	2
TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	11
INDUCTIVE LOOP DETECTOR	EACH	14
DETECTOR LOOP, TYPE I	FOOT	1514
PEDESTRIAN PUSH-BUTTON	EACH	2
RELOCATE EXISTING SIGNAL HEAD	EACH	2
RELOCATE EXISTING TRAFFIC SIGNAL POST	EACH	2
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	2130
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING CONCRETE FOUNDATION	EACH	2

MODEL: Default
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 SHEET: 193

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SCALE:	SHEET	OF	SHEETS	STA.	TO	STA.	ILLINOIS FED. AID PROJECT



MODEL: Default
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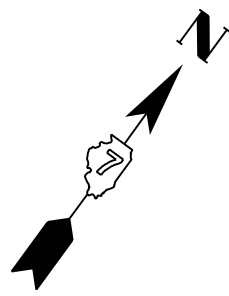
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PLOT DATE = 10/15/2019	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INTERSECTION OF LINCOLN AVE (IL RTE 16) & HAWTHORNE DRIVE
EXISTING UTILITY LAYOUT

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
91	(51.51Z)RS-3	COLES	211	194
CONTRACT NO. 74694				
ILLINOIS FED. AID PROJECT				

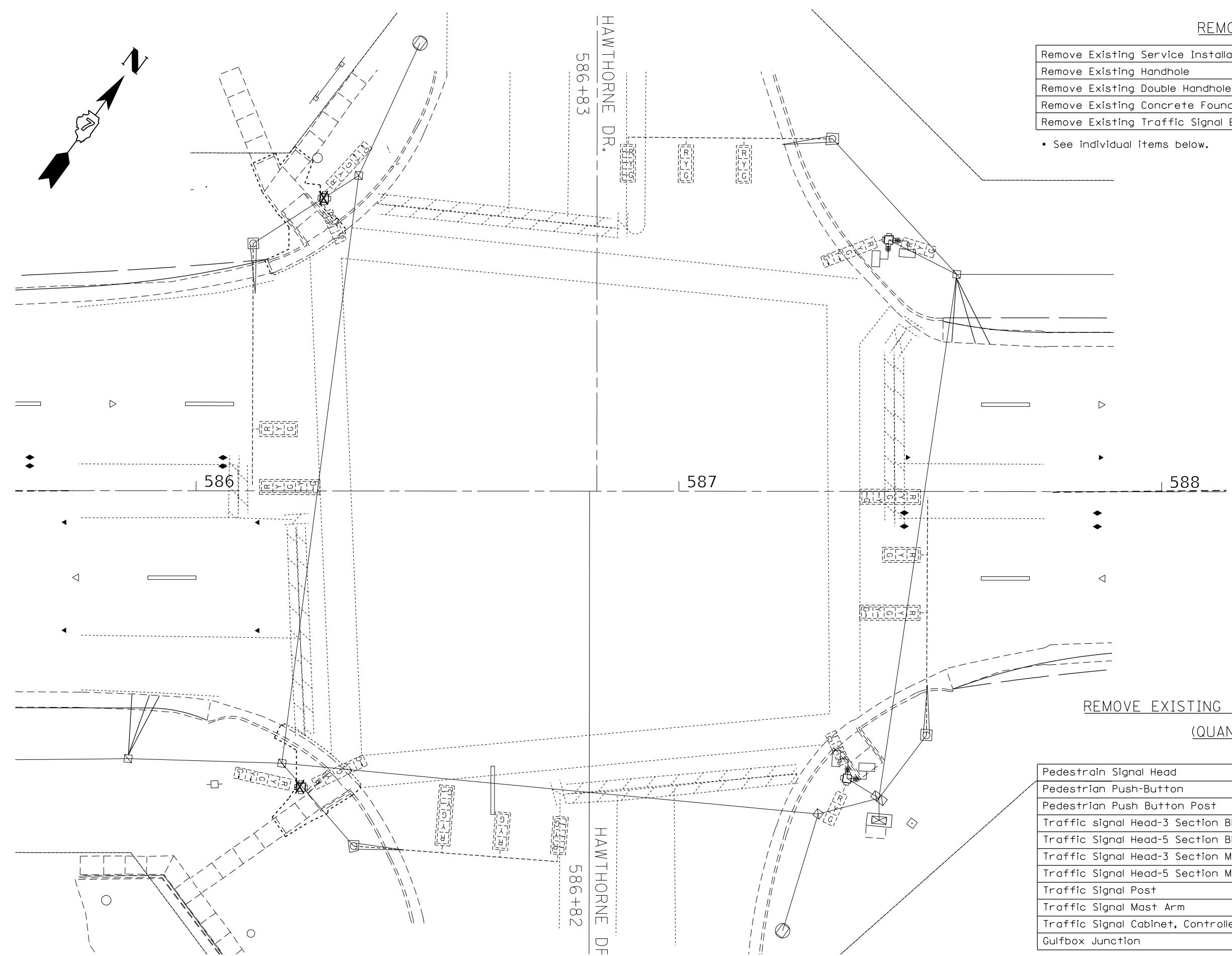
SCALE: SHEET OF SHEETS STA. TO STA.



REMOVAL ITEMS

	Each	Total	NW	NE	SE	SW
Remove Existing Service Installation	Each	0	-	-	-	-
Remove Existing Handhole	Each	0	-	-	-	-
Remove Existing Double Handhole	Each	0	-	-	-	-
Remove Existing Concrete Foundation	Each	2	1	-	-	1
Remove Existing Traffic Signal Equipment *	Each	1				

* See individual items below.



REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
(QUANTITY: 1 EACH)

	Total	NW	NE	SE	SW
Pedestrian Signal Head	8	2	2	2	2
Pedestrian Push-Button	8	2	2	2	2
Pedestrian Push Button Post	-	-	-	-	-
Traffic signal Head-3 Section BM	-	-	-	-	-
Traffic Signal Head-5 Section BM	3	1	1	-	1
Traffic Signal Head-3 Section MAM	-	-	-	-	-
Traffic Signal Head-5 Section MAM	3	1	-	1	1
Traffic Signal Post	2	1	-	-	1
Traffic Signal Mast Arm	-	-	-	-	-
Traffic Signal Cabinet, Controller & Components	1	-	-	1	-
Gulfbox Junction	-	-	-	-	-

MODEL: Default
FILE: hawthorne.dwg
PLOT DATE: 10/15/2019
PROJECT: 74694
SHEET: 195

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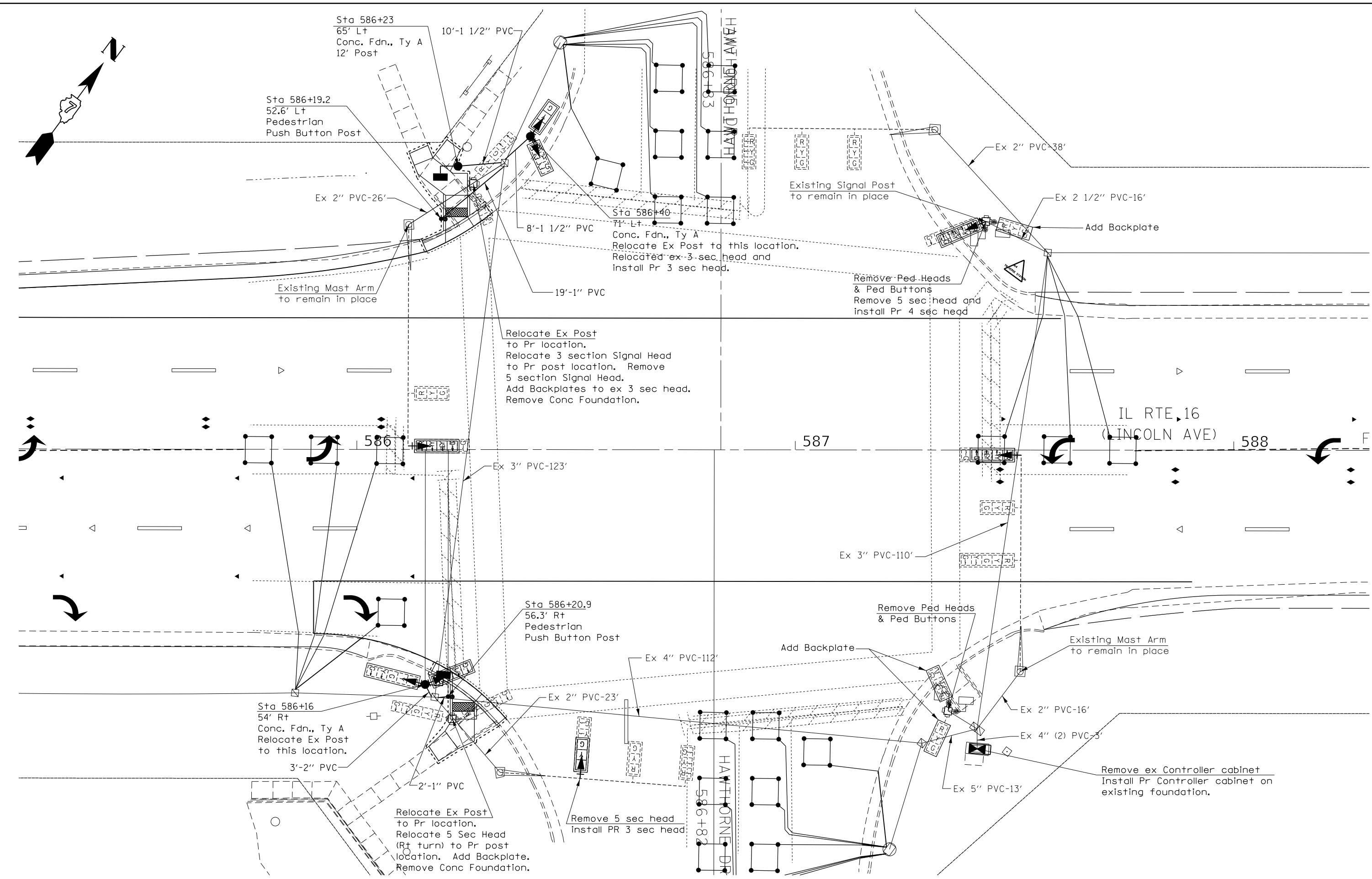
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INTERSECTION OF LINCOLN AVE (IL RTE 16) & HAWTHORNE DRIVE
TRAFFIC SIGNAL REMOVAL ITEMS

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE. 91	SECTION (51.51Z)RS-3	COUNTY COLES	TOTAL SHEETS 211	SHEET NO. 195
ILLINOIS FED. AID PROJECT			CONTRACT NO. 74694	

MODEL: Default
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 PROJECT: 74694
 DRAWING: 74694-1-1
 DATE: 10/15/2019



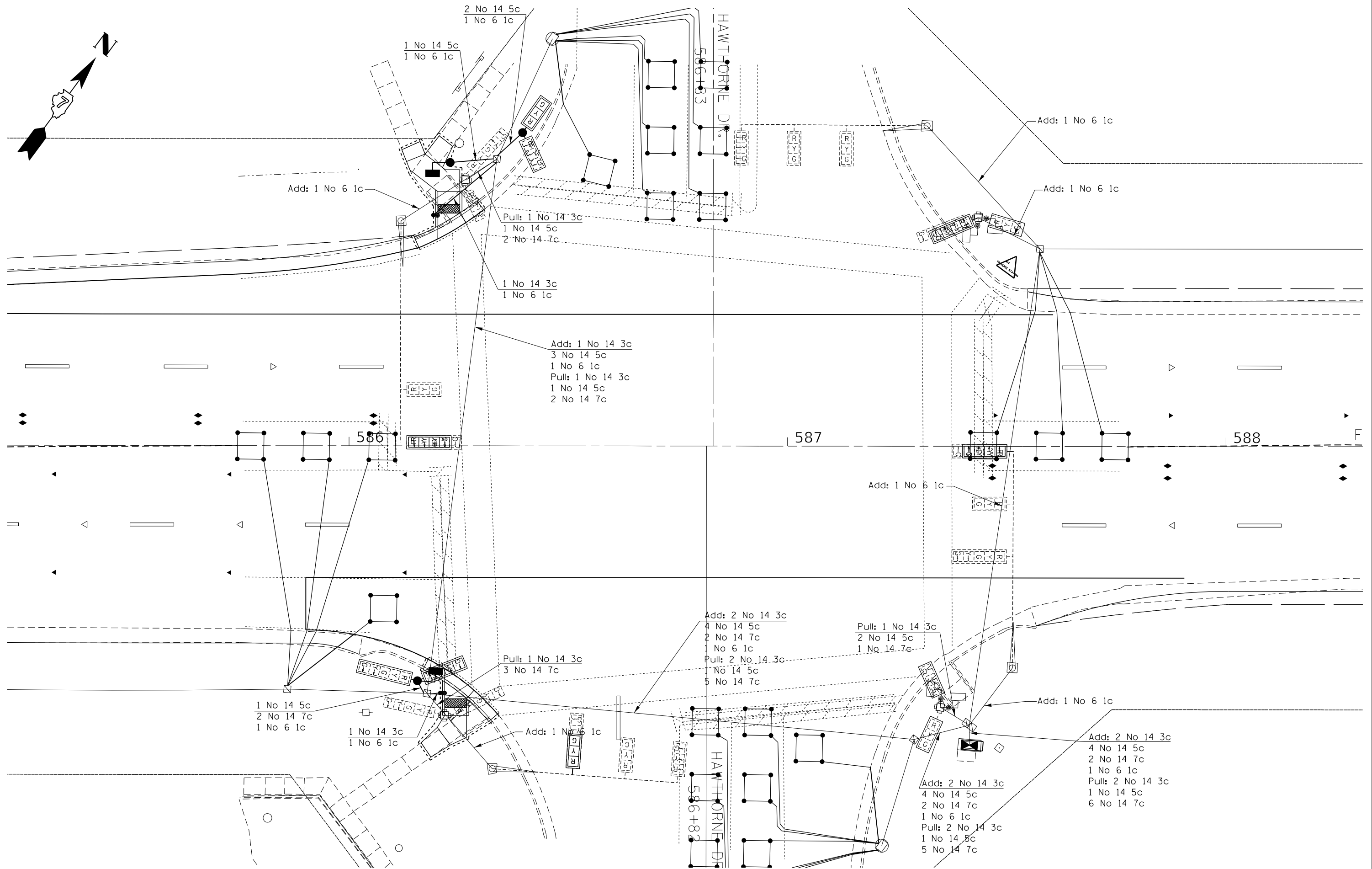
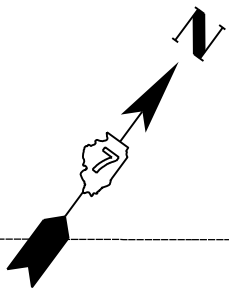
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**INTERSECTION OF LINCOLN AVE (IL RTE 16) & HAWTHORNE DRIVE
 SIGNAL LAYOUT**

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
91	(51,51Z)RS-3	COLES	211	196
CONTRACT NO. 74694				
ILLINOIS		FED. AID PROJECT		

SCALE: SHEET OF SHEETS STA. TO STA.



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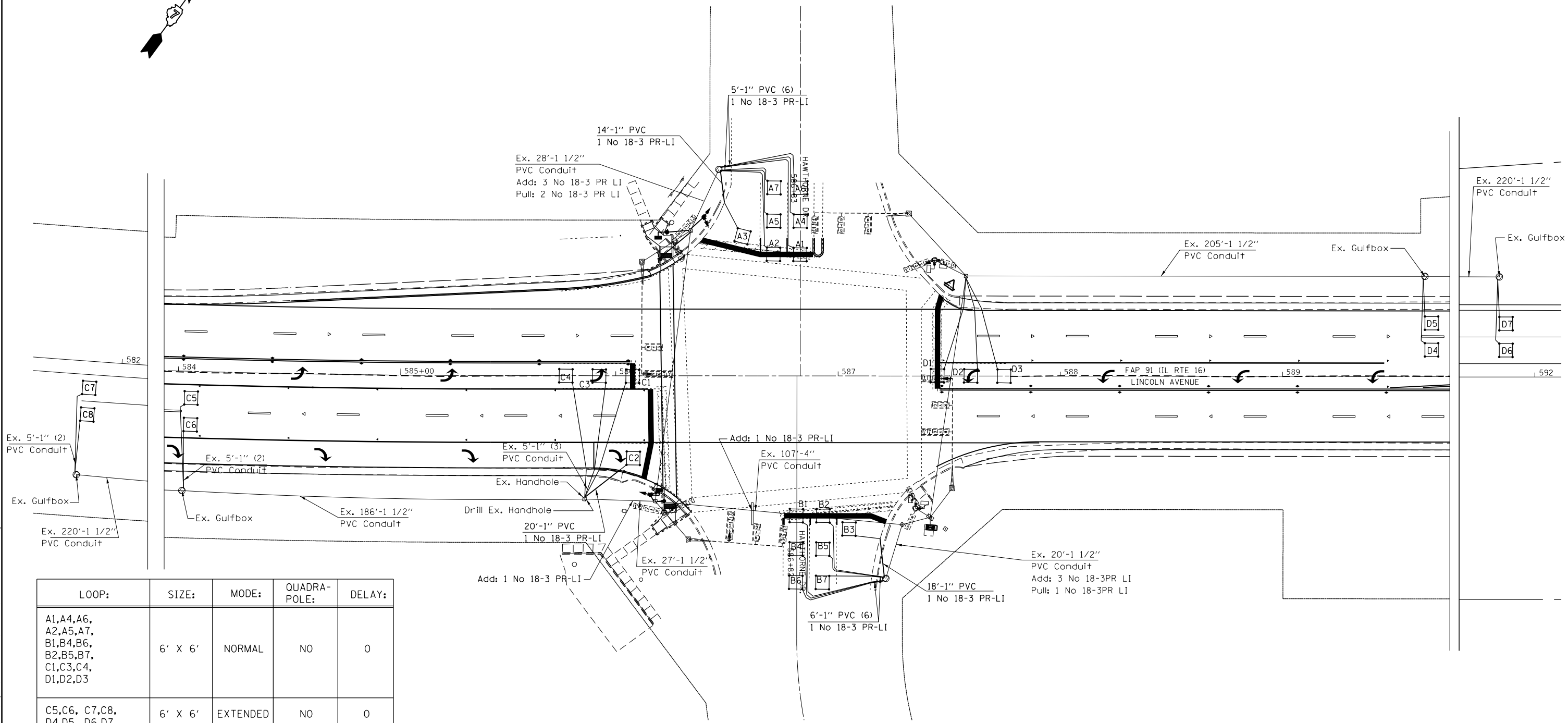
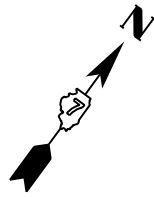
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INTERSECTION OF LINCOLN AVE (IL RTE 16) & HAWTHORNE DRIVE
CABLE LAYOUT

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
91	(51,512)RS-3	COLES	211	197
CONTRACT NO. 74694				
ILLINOIS FED. AID PROJECT				

SCALE: SHEET OF SHEETS STA. TO STA.



LOOP:	SIZE:	MODE:	QUADRA-POLE:	DELAY:
A1,A4,A6, A2,A5,A7, B1,B4,B6, B2,B5,B7, C1,C3,C4, D1,D2,D3	6' X 6'	NORMAL	NO	0
C5,C6, C7,C8, D4,D5 D6,D7	6' X 6'	EXTENDED	NO	0
A3, B3, C2	6' X 6'	DELAY	NO	15

THE FOLLOWING CABLES SHALL BE WIRED TO COMMON AMPLIFIERS:
 (A1,A4,A6),(A2,A5,A7),
 (B1,B4,B6),(B2,B5,B7),
 (C1,C3,C4),(C2),(C5,C6),(C7,C8)
 (D1,D2,D3),(D4,D5),(D6,D7)

13 AMPLIFIERS PLUS 1 ADDITIONAL
 TOTAL 14 AMPLIFIERS

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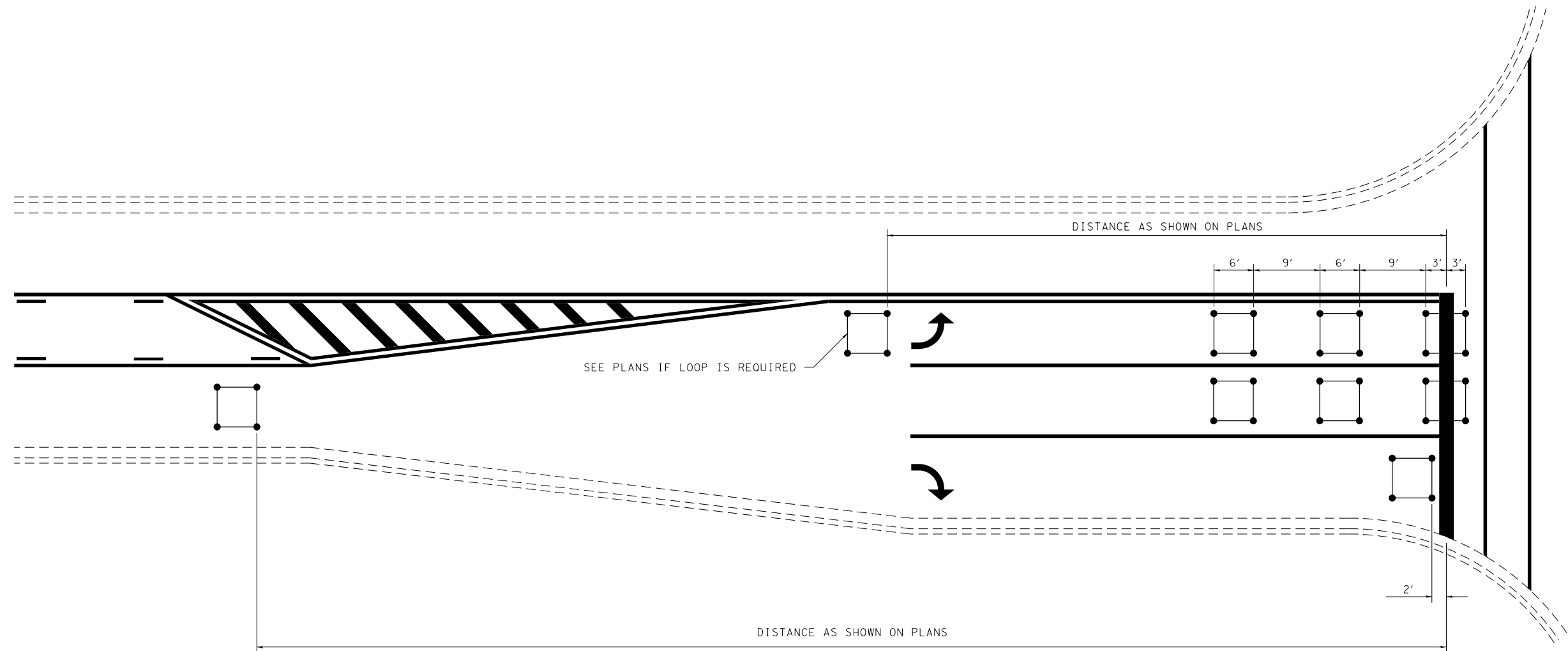
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INTERSECTION OF LINCOLN AVE (IL RTE 16) & HAWTHORNE DRIVE
DETECTOR LOOPS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
91	(51,51Z)RS-3	COLES	211	198
CONTRACT NO. 74694				
		ILLINOIS	FED. AID PROJECT	

SCALE: SHEET OF SHEETS STA. TO STA.

TYPICAL APPLICATION OF DETECTOR LOOPS



NOTE:

1. EACH LOOP SHALL HAVE ITS OWN HOMERUN TO THE GULFBOX/HANDHOLE.
2. LOOPS SHOULD BE CENTERED IN EACH LANE.
3. USE 6' BY 6' LOOPS FOR LANE WIDTHS OF 11' OR GREATER.
4. USE 5' BY 5' LOOPS IF LANE WIDTH IS LESS THAN 11'.

NOT TO SCALE

DISTRICT 7 DETAIL NO. 88600100

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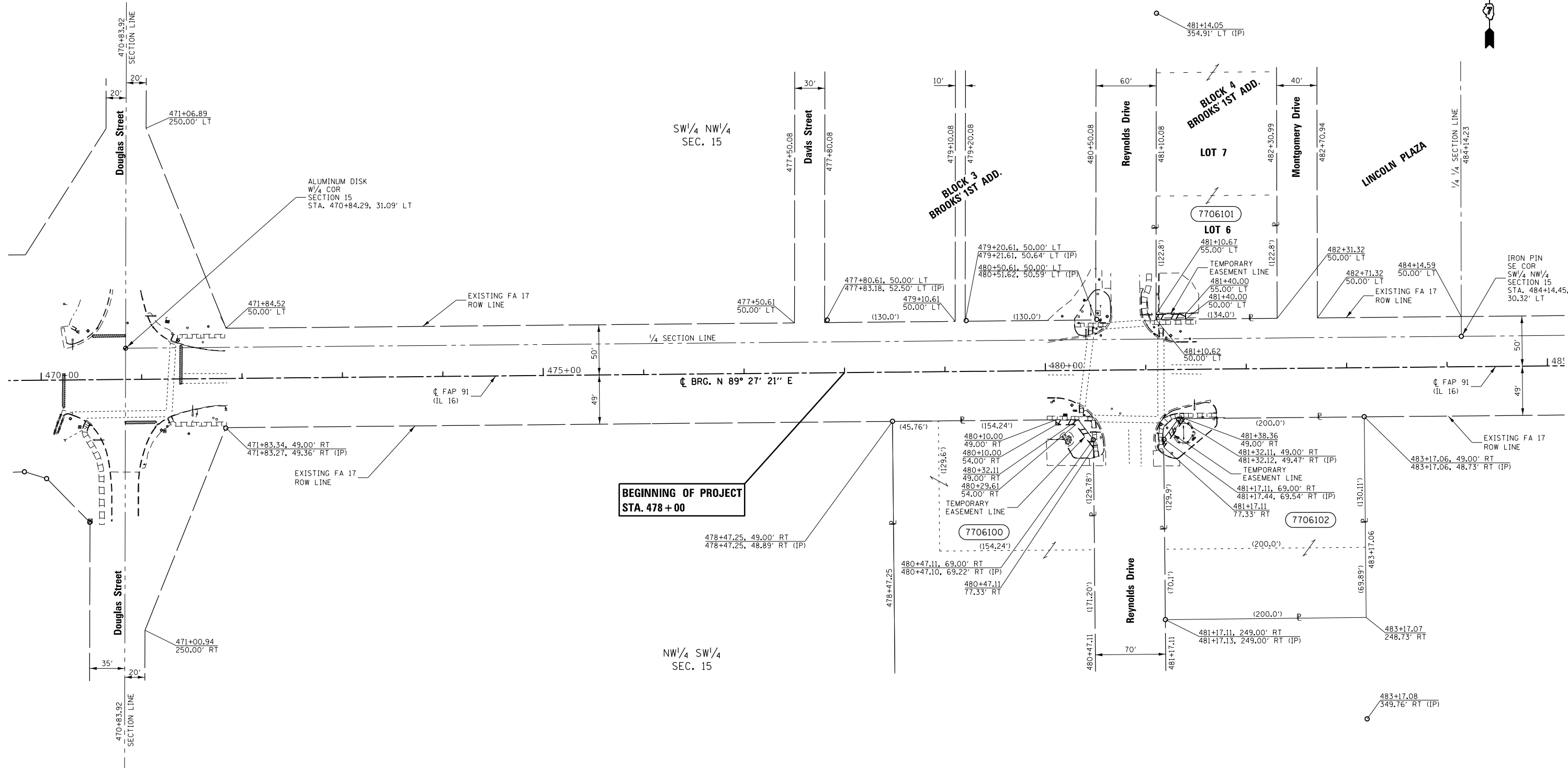
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

TYPICAL APPLICATIONS OF DETECTOR LOOPS

SCALE: SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
91	(51,51Z)RS-3	COLES	211	199
CONTRACT NO. 74694				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

T.12N.-R.9E., 3rd P.M., CHARLESTON TWP.



- - EXISTING IRON PIN
- - EXISTING STONE
- - SET IRON PIN
- ⊗ - EXISTING R.O.W. MARKER
- ⊙ - EXISTING ALUMINUM DISK
- - EXISTING DRILL HOLE
- (R) RECORDED DISTANCE

NOTE:
 BEARINGS ARE REFERENCED TO THE ILLINOIS STATE PLANE COORDINATE SYSTEM EAST ZONE DATUM OF 1983(11)
 TEMPORARY EASEMENTS NEEDED FOR A WORK AREA

PARCEL	OWNER	AREA TAKEN		EASEMENT	AREA REM	INST	RECORDED				EXCESS		
		ADD	EXIST				MICRO FILM NO	DATE	BOOK	PAGE	AREA	SOLD	
7706100	CHARLESTON FEDERAL SAVINGS & LOAN ASSOC			0.006 AC.									
7706101	FAIK AND SANIJE ZENDELI			0.003 AC.									
7706102	PRIDE OIL, LLC			0.003 AC.									

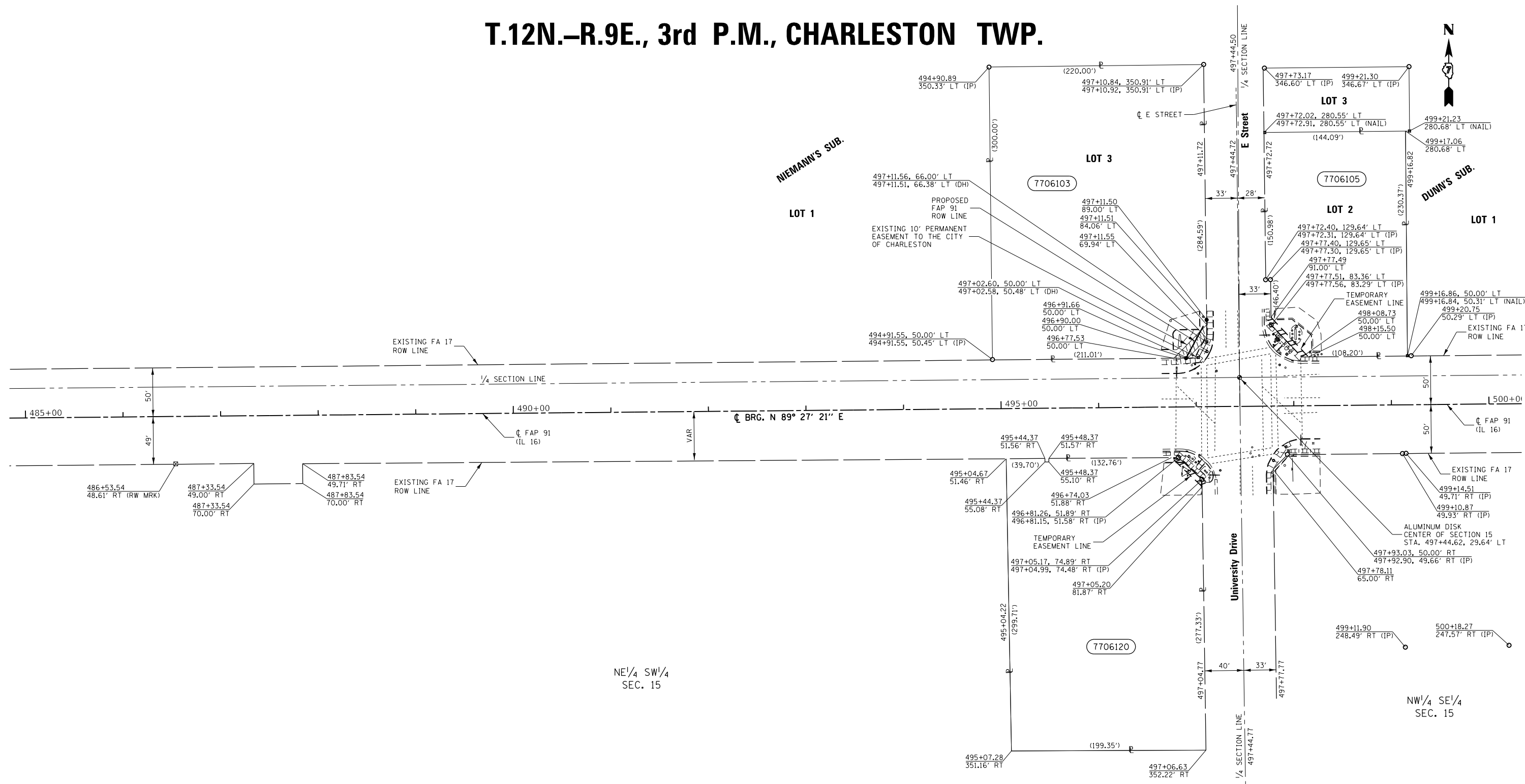
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	PLOT DATE = 10/15/2019	DATE - 09/11/17	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

PROJECT	JOB NO. R-97-006-17
SCALE: 1" = 50'	STA. 470+00.00 TO STA. 485+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
91	(51,51Z)RS-3	COLES	211	200
CONTRACT NO. 74694				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

T.12N.-R.9E., 3rd P.M., CHARLESTON TWP.

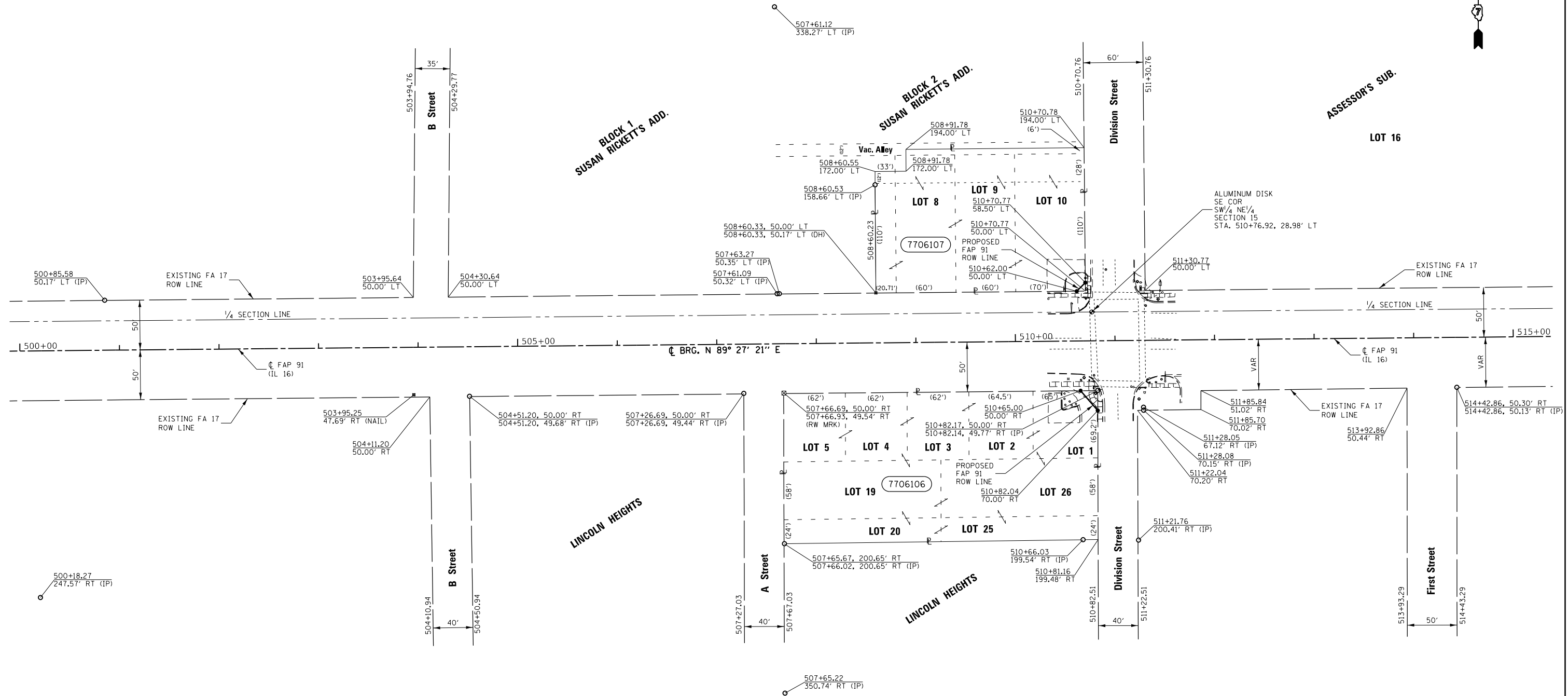


- - EXISTING IRON PIN
- EXISTING STONE
- - SET IRON PIN
- ⊗ - EXISTING R.O.W. MARKER
- ⊕ - EXISTING ALUMINUM DISK
- - EXISTING DRILL HOLE
- (R) RECORDED DISTANCE

NOTE:
 BEARINGS ARE REFERENCED TO THE ILLINOIS STATE PLANE COORDINATE SYSTEM EAST ZONE DATUM OF 1983(11)
 TEMPORARY EASEMENTS NEEDED FOR A WORK AREA

PARCEL	OWNER	AREA TAKEN		EASEMENT	AREA REM	INST	RECORDED				EXCESS		
		ADD	EXIST				MICRO FILM NO	DATE	BOOK	PAGE	AREA	SOLD	
7706103	FDG C41 IL CHARLESTON, LLC	0.008 AC.	0.000 AC.		1.509 AC.								
7706105	INAD ENTERPRISES, INC.			0.006 AC.									
7706120	FIRST MID-ILLINOIS BANK AND TRUST, N.A.			0.004 AC.									

T.12N.-R.9E., 3rd P.M., CHARLESTON TWP.



- - EXISTING IRON PIN
- EXISTING STONE
- - SET IRON PIN
- ⊠ - EXISTING R.O.W. MARKER
- ⊙ - EXISTING ALUMINUM DISK
- - EXISTING DRILL HOLE
- (R) RECORDED DISTANCE

NOTE:
 BEARINGS ARE REFERENCED TO THE ILLINOIS STATE PLANE COORDINATE SYSTEM EAST ZONE DATUM OF 1983(11)
 TEMPORARY EASEMENTS NEEDED FOR A WORK AREA

PARCEL	OWNER	AREA TAKEN		EASEMENT	AREA REM	INST	RECORDED				EXCESS		
		ADD	EXIST				MICRO FILM NO	DATE	BOOK	PAGE	AREA	SOLD	
7706106	MCDONALD'S CORPORATION	0.004 AC.	0.000 AC.		0.097 AC.								
7706107	SILVERSTONE PARTNERS, LLC	0.001 AC.	0.000 AC.		0.176 AC.								

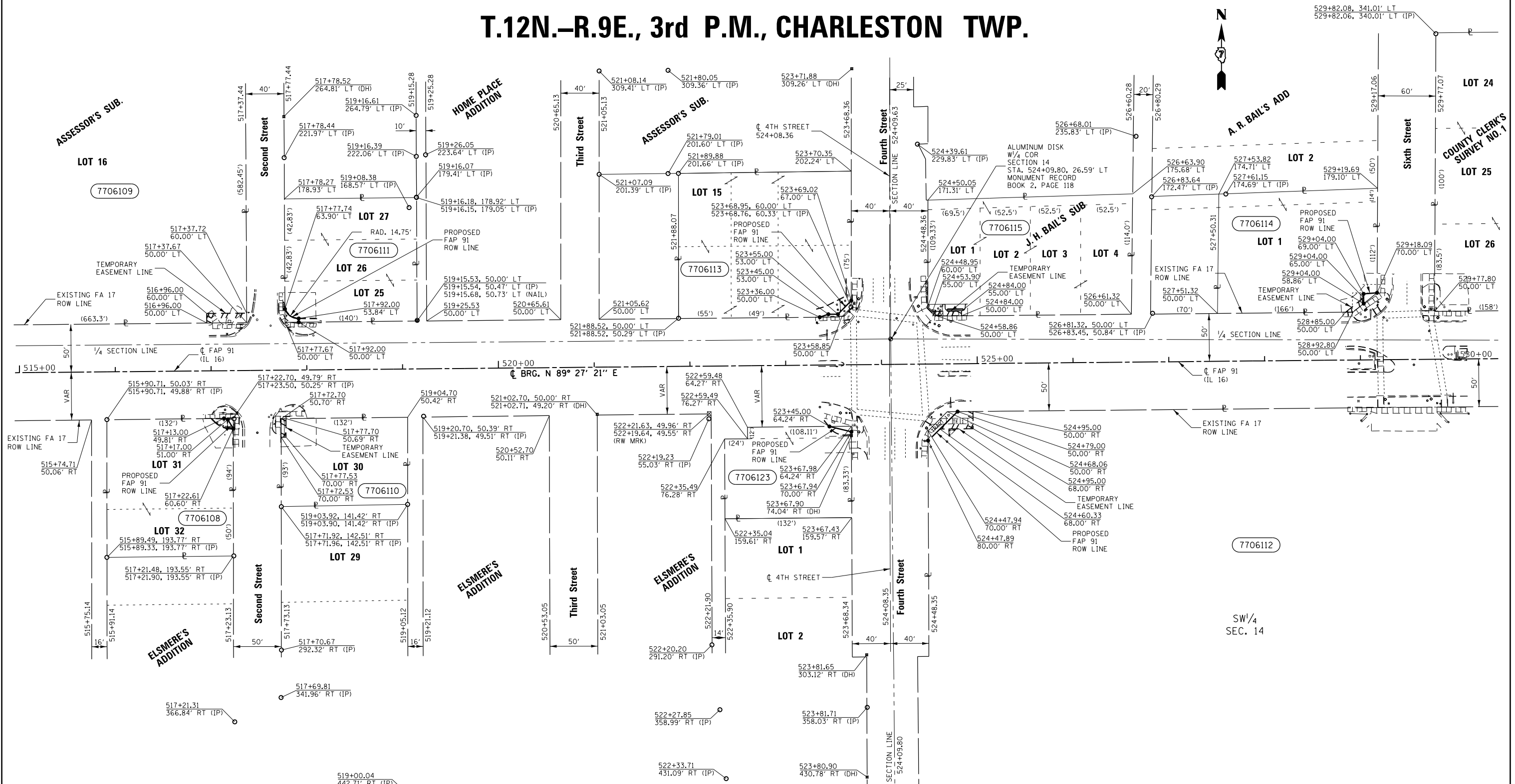
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		CHECKED - JMD	REVISED -
		DATE - 09/13/17	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

PROJECT	JOB NO. R-97-006-17
SCALE: 1" = 50'	STA. 500+00.00 TO STA. 515+00.00
SHEET NO. 4 OF 6 SHEET	

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
91	(51,51Z)R5-3	COLES	211	202
CONTRACT NO. 74694				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

T.12N.-R.9E., 3rd P.M., CHARLESTON TWP.



- - EXISTING IRON PIN
- - EXISTING STONE
- ⊙ - SET IRON PIN
- ⊗ - EXISTING R.O.W. MARKER
- ⊕ - EXISTING ALUMINUM DISK
- ⊖ - EXISTING DRILL HOLE
- (R) RECORDED DISTANCE

NOTE:
 BEARINGS ARE REFERENCED TO THE ILLINOIS STATE PLANE COORDINATE SYSTEM EAST ZONE DATUM OF 1983(11)
 TEMPORARY EASEMENTS NEEDED FOR A WORK AREA

PARCEL	OWNER	AREA TAKEN		EASEMENT	AREA REM	INST	RECORDED			EXCESS	
		ADD	EXIST				MICRO FILM NO	DATE	BOOK	PAGE	AREA
7706108	THE TWINS GROUP-WOOD DALE, LLC	0.001 AC.	0.000 AC.		0.283 AC.						
7706109	THE BOARD OF PARK COMMISSIONERS OF THE TOWN OF CHARLESTON, COLES COUNTY, ILL			0.010 AC.							
7706110	SDHI RENTALS, LLC			0.002 AC.							
7706111	CHARLESTON TOWNSHIP PARK DISTRICT	0.002 AC.	0.000 AC.		0.133 AC.						
7706112	BOARD OF TRUSTEES OF EIU	0.011 AC.	0.000 AC.	0.027 AC.	35.166 AC.						
	TRACT 1	0.006 AC.	0.000 AC.	0.010 AC.							
	TRACT 2	0.005 AC.	0.000 AC.	0.017 AC.							
7706113	LIAUTAUD DEVELOPMENT GROUP, LLC	0.003 AC.	0.000 AC.		0.127 AC.						
7706114	JOHN S. AND LUCILLE E. INYART	0.002 AC.	0.000 AC.	0.002 AC.	0.477 AC.						
7706115	KB PROPERTIES AND DEVELOPMENT, LLC			0.003 AC.							
7706123	JERRY E. AND CAROL L. MYERSCOUGH	0.002 AC.	0.000 AC.		0.028 AC.						

FILE NAME
 D774694-sht-rowplan.dgn

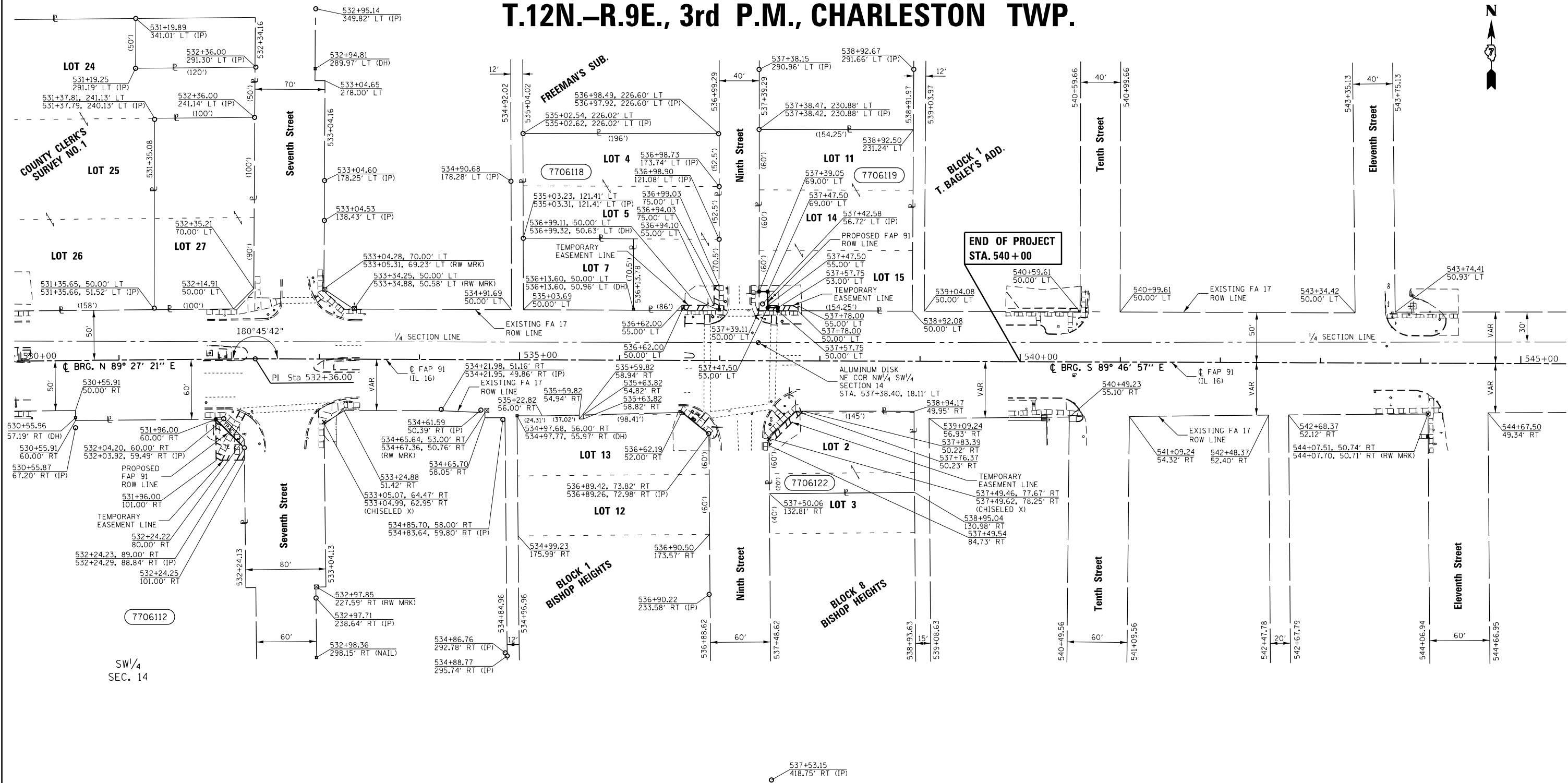
USER NAME = steffennk	DESIGNED - JMD	REVISED -
PLOT SCALE = 100.0000' / in.	DRAWN - JMD	REVISED -
PLOT DATE = 10/15/2019	CHECKED - JMD	REVISED -
	DATE - 09/15/17	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

PROJECT	JOB NO. R-97-006-17
SCALE: 1" = 50'	SHEET NO. 5 OF 6 SHEET
	STA. 515+00.00 TO STA. 530+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
91	(51,51ZIR5-3	COLES	211	203
CONTRACT NO. 74694				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

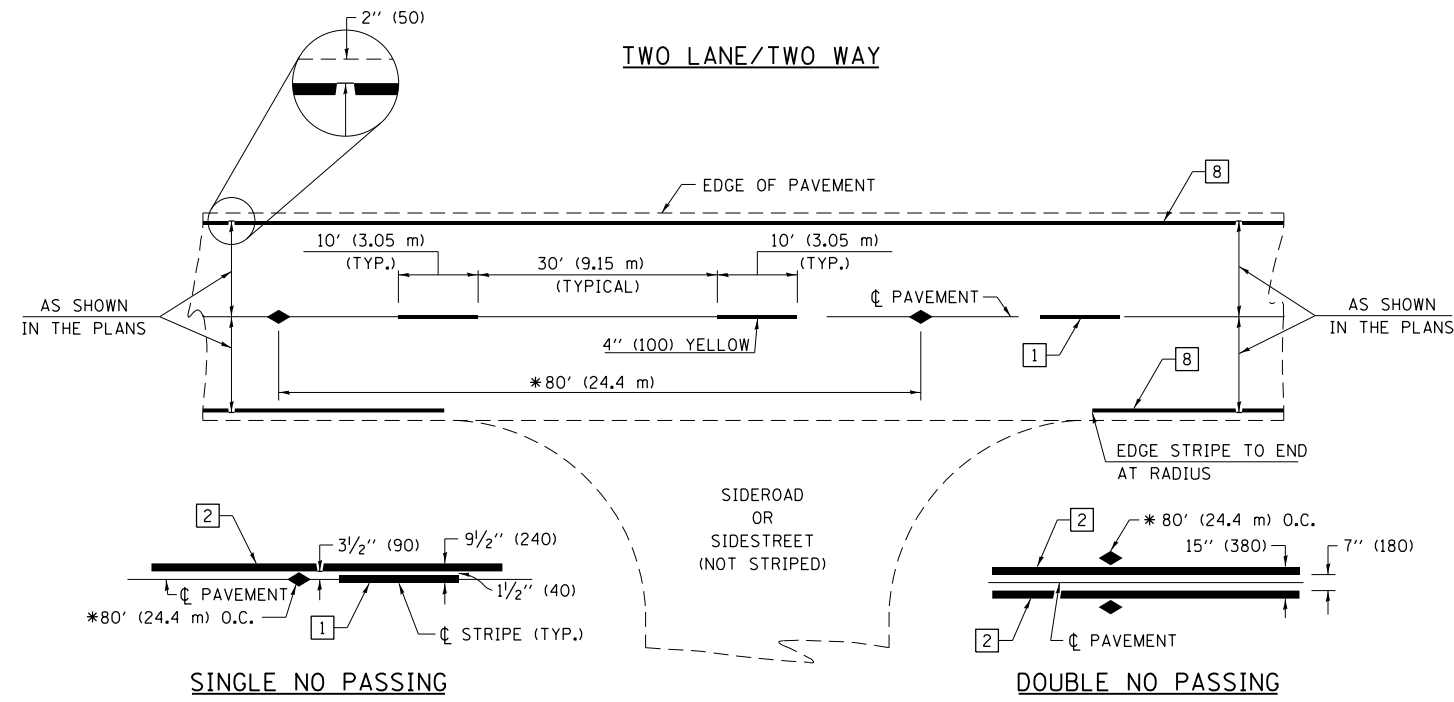
T.12N.-R.9E., 3rd P.M., CHARLESTON TWP.



- - EXISTING IRON PIN
- - EXISTING STONE
- - SET IRON PIN
- ⊗ - EXISTING R.O.W. MARKER
- ⊙ - EXISTING ALUMINUM DISK
- - EXISTING DRILL HOLE
- (R) RECORDED DISTANCE

NOTE:
 BEARINGS ARE REFERENCED TO THE ILLINOIS STATE PLANE COORDINATE SYSTEM EAST ZONE DATUM OF 1983(11)
 TEMPORARY EASEMENTS NEEDED FOR A WORK AREA

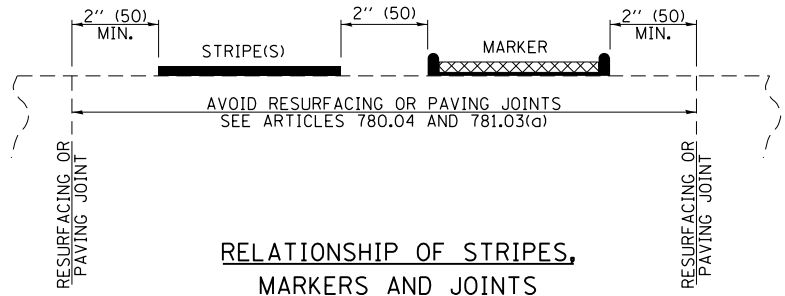
PARCEL	OWNER	AREA TAKEN		EASEMENT	AREA REM	INST	RECORDED				EXCESS		
		ADD	EXIST				MICRO FILM NO	DATE	BOOK	PAGE	AREA	SOLD	
7706112	BOARD OF TRUSTEES OF EIU	0.011 AC.	0.000 AC.	0.027 AC.	35.166 AC.								
	TRACT 1	0.006 AC.	0.000 AC.	0.010 AC.									
	TRACT 2	0.005 AC.	0.000 AC.	0.017 AC.									
7706118	UNIQUE HOMES PROPERTIES, INC.			0.007 AC.									
7706119	FAMILY VIDEO MOVIE CLUB, INC.	0.004 AC.	0.000 AC.	0.003 AC.	0.207 AC.								
7706122	MICHAEL W. BICKERS			0.005 AC.									



* REDUCE TO 40' (12.2 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEEDS OF 45 mph (70 km/h) OR LESS.

PAVEMENT MARKING LEGEND

- 1 4" (100) SKIP-DASH (YELLOW)
- 2 4" (100) SOLID (YELLOW)
- 3 12" (300) DIAGONAL (YELLOW)
- 4 4" (100) DOUBLE YELLOW (NARROW)
- 5 12" (300) SOLID WHITE
- 6 RESERVED
- 7 6" (150) SKIP-DASH (WHITE)
- 8 4" (100) SOLID (WHITE)
- 9 12" (300) DIAGONAL (WHITE)
- 10 6" (150) SOLID (WHITE)
- 11 24" (600) STOP BAR (WHITE)
- 12 8" (200) SOLID (WHITE)
- 13 4" (100) PARKING WHITE

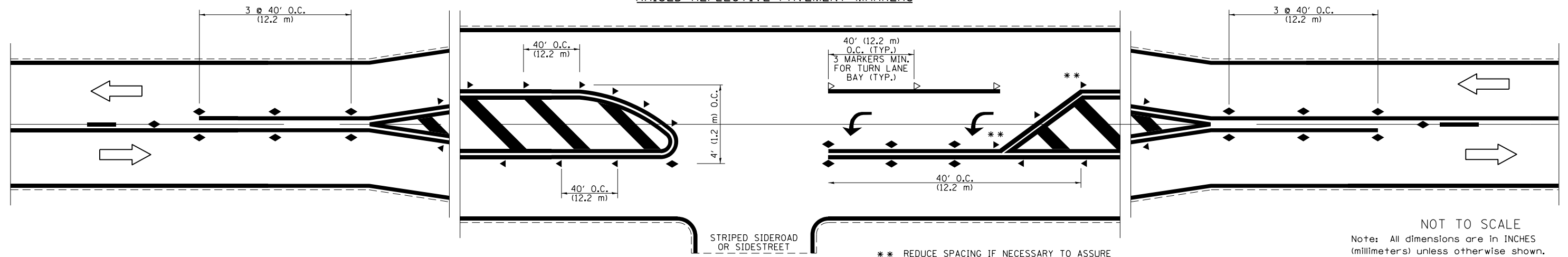


RELATIONSHIP OF STRIPES, MARKERS AND JOINTS

TYPICAL PAVEMENT MARKERS LEGEND

- ◆ TWO-WAY AMBER MARKER
- ▶ ONE-WAY AMBER MARKER
- ▷ ONE-WAY CRYSTAL MARKER

RAISED REFLECTIVE PAVEMENT MARKERS



** REDUCE SPACING IF NECESSARY TO ASSURE MARKERS AT CORNER POINTS.

NOT TO SCALE
Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

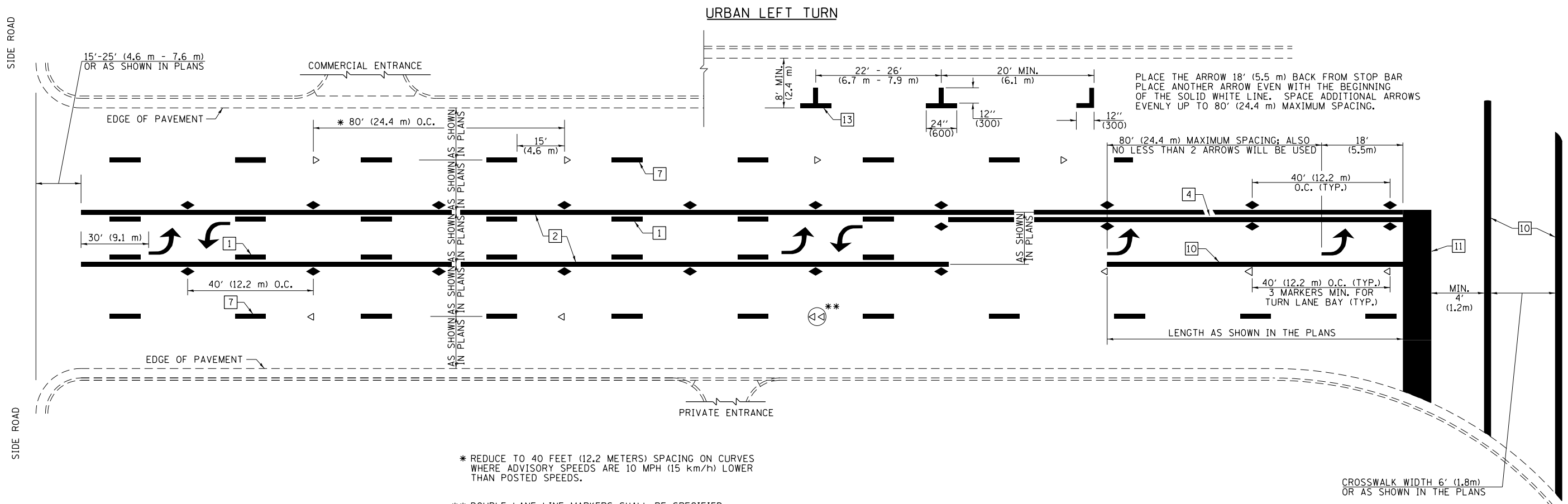
FILE NAME =	USER NAME = steffenmk	DESIGNED -	REVISED -
pw:\planroom.dot.illinois.gov\PWIDOT\Documents\IDOT Offices\District 7\Projects\74694\DRAWING\CADsheets\0774694-shd-detail.dgn		REVISOR -	REVISED -
	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -
	PLOT DATE = 10/18/2019	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING AND RAISED REFLECTIVE PAVEMENT MARKERS
(RURAL & URBAN APPLICATIONS)

SCALE: SHEET NO. 1 OF 4 SHEETS STA. TO STA.

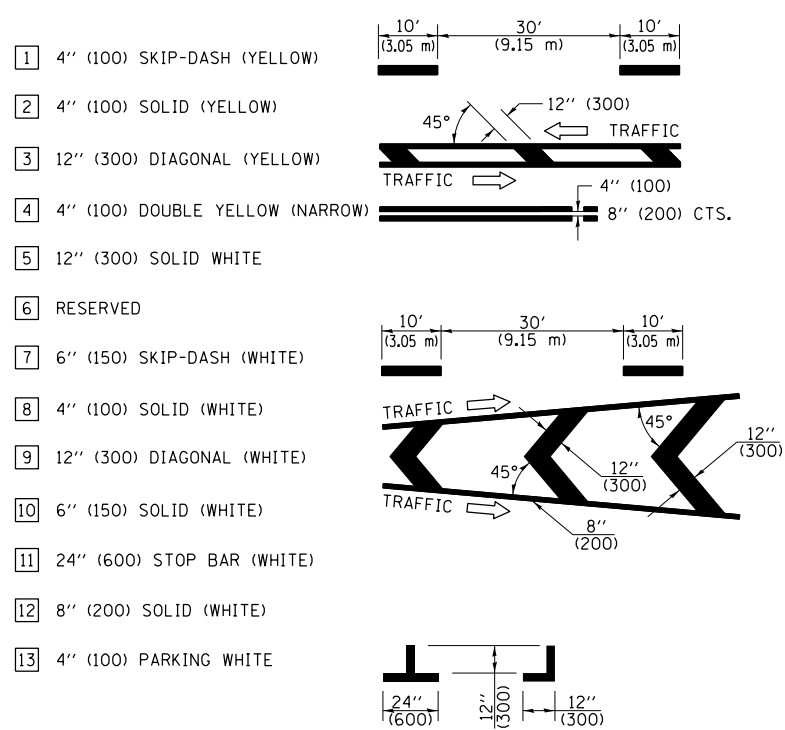
DISTRICT 7 DETAIL NO. 78000001				
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
91	(51,51ZIR5-3	COLES	211	205
			CONTRACT NO. 74694	
ILLINOIS FED. AID PROJECT				



* REDUCE TO 40 FEET (12.2 METERS) SPACING ON CURVES WHERE ADVISORY SPEEDS ARE 10 MPH (15 km/h) LOWER THAN POSTED SPEEDS.

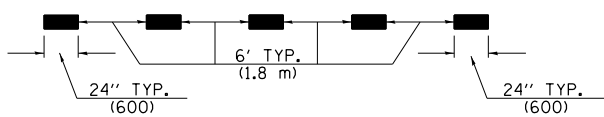
** DOUBLE LANE LINE MARKERS SHALL BE SPECIFIED AND SPACED AS SHOWN IN HIGHWAY STANDARD 781001 FOR MULTI-LANE DIVIDED AND UNDIVIDED HIGHWAYS.

PAVEMENT MARKING LEGEND

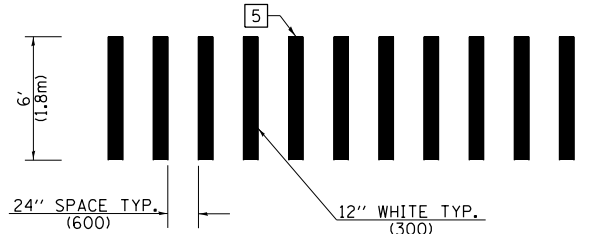


GENERAL NOTES

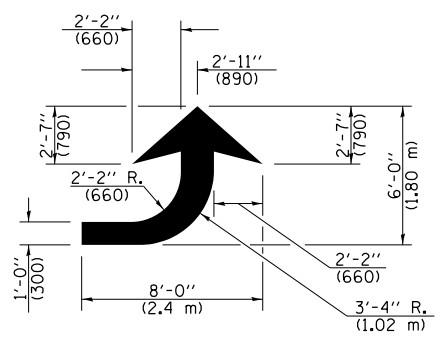
- TURN ARROW PAIRS SHALL BE PLACED AT 250' (75 m) INTERVALS AND SHALL BE EVENLY SPACED BETWEEN BOTH ENDS OF THE BIDIRECTIONAL LEFT TURN LANE. USE A MINIMUM OF TWO PAIRS PER BLOCK.
- THE SOLID YELLOW PAVEMENT MARKINGS [2] SHOULD GENERALLY START OR END NEAR THE RADIUS POINT OF EACH STREET RETURN EXCEPT WHERE ONE OR BOTH ENDS WOULD INCLUDE STOP BARS.
- THE SKIP-DASH PAVEMENT MARKINGS [1] OR [7] SHOULD BE CENTERED BETWEEN BOTH ENDS OF EACH CITY BLOCK AND SHALL BE PLACED SO THEY LINE UP ACROSS FROM EACH OTHER.
- USE LARGE ARROW SIZE FOR BOTH RURAL AND URBAN LOCATIONS. (SEE LAST PAGE OF SECTION 780x FOR SYMBOLS TABLE)
- LANE LINE EXTENSIONS SHALL BE THE SAME COLOR AND WIDTH AS THE LANE LINE BEING EXTENDED.



LANE LINE EXTENSIONS

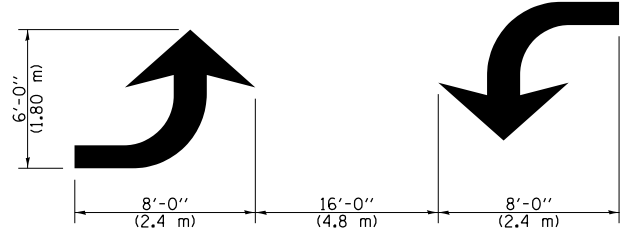


CROSSWALK DETAIL (DECATUR CITY LIMITS ONLY)



LEFT ARROW

REVERSE FOR RIGHT ARROW
AREA = 15.6 SQ. FT. (1.47 m²)
(WHITE)



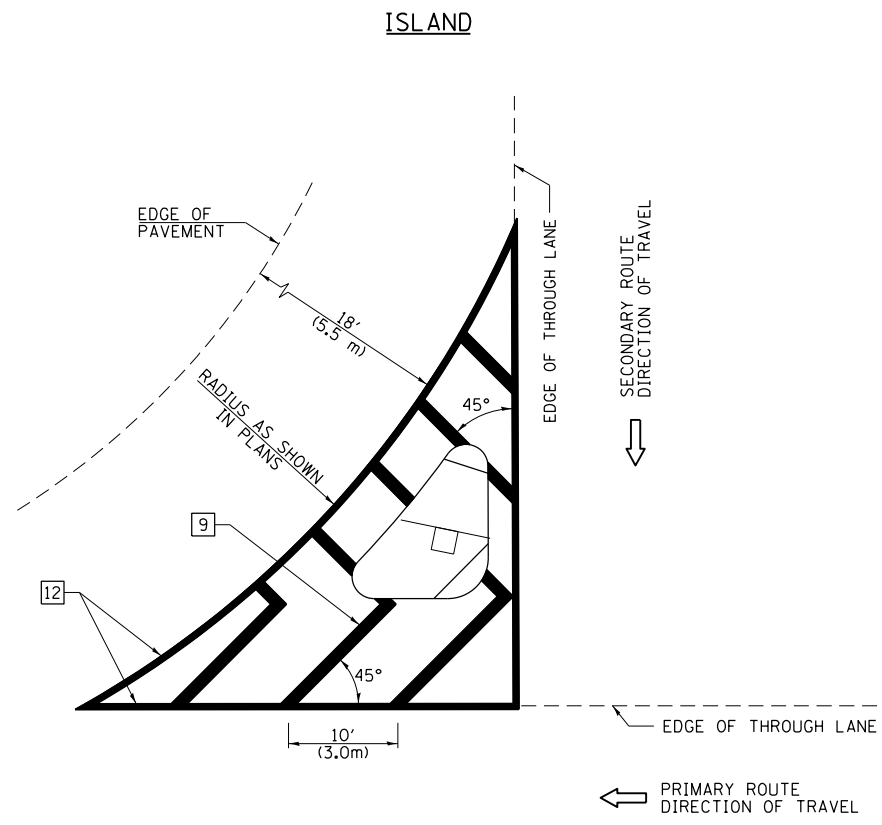
TYPICAL DOUBLE TURN ARROWS (WHITE)

NOT TO SCALE

Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

DISTRICT 7 DETAIL NO. 78000001

FILE NAME =	USER NAME = steffenmk	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PAVEMENT MARKING AND RAISED REFLECTIVE PAVEMENT MARKERS (RURAL & URBAN APPLICATIONS)		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
pw:\planroom.dot.illinois.gov\PWIDOT\Documents\IDOT Offices\District 7\Projects\74694\DRAWING\CADsheets\0774694-shd-detail.dgn		CHECKED -	REVISED -				91	(51,51ZIR5-3	COLES	211	206
		PLOT SCALE = 100.0000' / in.	REVISED -				CONTRACT NO. 74694				
		PLOT DATE = 10/18/2019	REVISED -				ILLINOIS FED. AID PROJECT				

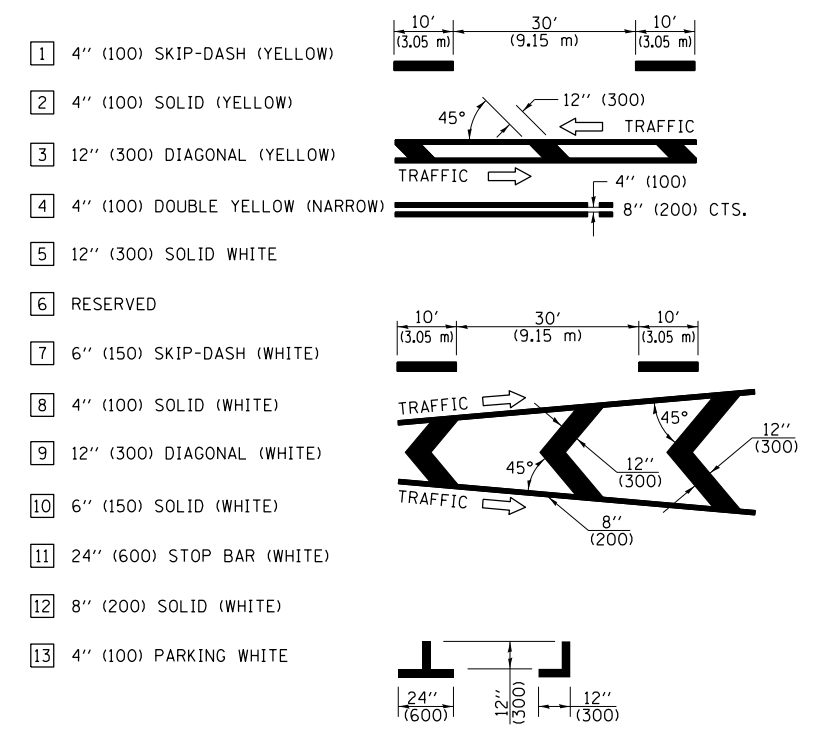


GENERAL NOTES

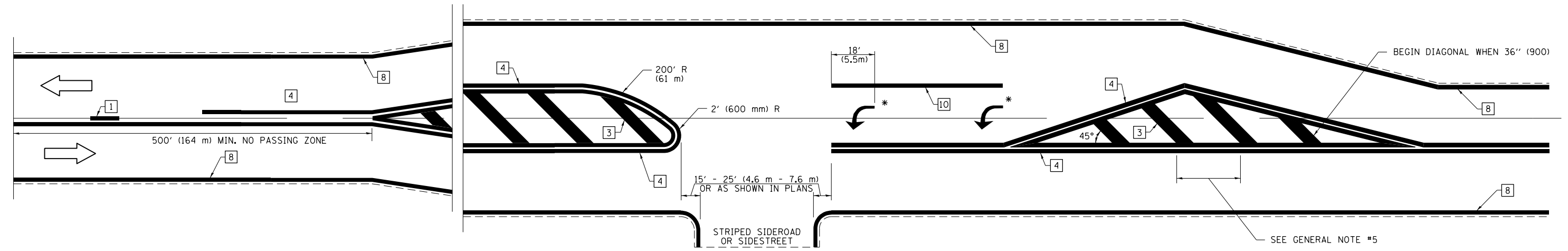
1. RAISED AND CORRUGATED MEDIANS SHALL BE OUTLINED WITH [2] IF PRESENT.
2. SOME OF THE INFORMATION INCLUDED WITH THIS DETAIL MAY NOT BE APPLICABLE TO THIS IMPROVEMENT.
3. PAVEMENT MARKINGS ARE TO BE EXTENDED THROUGH OMISSIONS WHEN APPLICABLE.
4. FINAL PAVEMENT MARKINGS SHALL BE IN PLACE PRIOR TO PLACING ANY RAISED REFLECTIVE PAVEMENT MARKERS.
5. THE FOLLOWING CRITERIA SHALL BE USED FOR SELECTING THE DIAGONAL PAVEMENT MARKING SPACING:

< 30 MPH (< 50 km/h)	15' (4.5 m)
30-45 MPH (50-75 km/h)	20' (6.0 m)
> 45 MPH (> 75 km/h)	30' (9.0 m)

PAVEMENT MARKING LEGEND



RURAL LEFT TURN STRIPING



* PLACE AN ARROW 18' (5.5 m) BACK FROM STOP BAR. PLACE ANOTHER ARROW EVEN WITH THE BEGINNING OF THE SOLID WHITE LINE. SPACE ADDITIONAL ARROWS EVENLY UP TO 80' (24.4 m) MAXIMUM SPACING. USE MINIMUM OF 2 ARROWS.

NOT TO SCALE
 Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

DISTRICT 7 DETAIL NO. 7800001

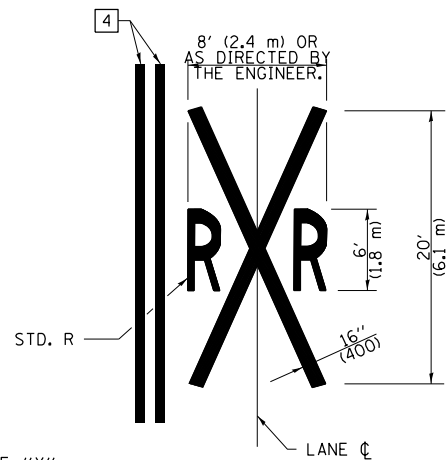
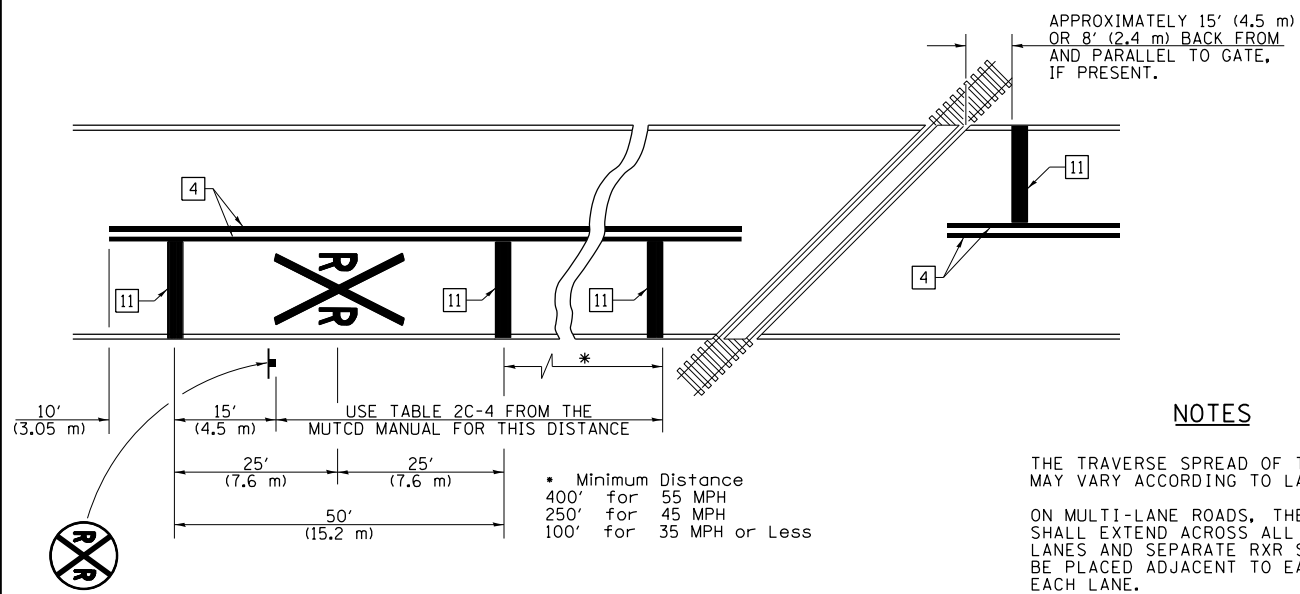
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pw:\planroom.dot.illinois.gov\PIDOT\Documents\IDOT Offices\District 7\Projects\74694\DRAWN\CADsheets\0774694-shd-detail.dgn		REVISOR -	REVISED -
	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -
	PLOT DATE = 10/18/2019	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**PAVEMENT MARKING AND RAISED REFLECTIVE PAVEMENT MARKERS
 (RURAL & URBAN APPLICATIONS)**
 SCALE: SHEET NO. 3 OF 4 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
91	(51,51Z)RS-3	COLES	211	207
CONTRACT NO. 74694				
ILLINOIS FED. AID PROJECT				

PAVEMENT MARKINGS AT RAILROAD-HIGHWAY GRADE CROSSING



NOTES

THE TRAVERSE SPREAD OF THE "X" MAY VARY ACCORDING TO LANE WIDTH.

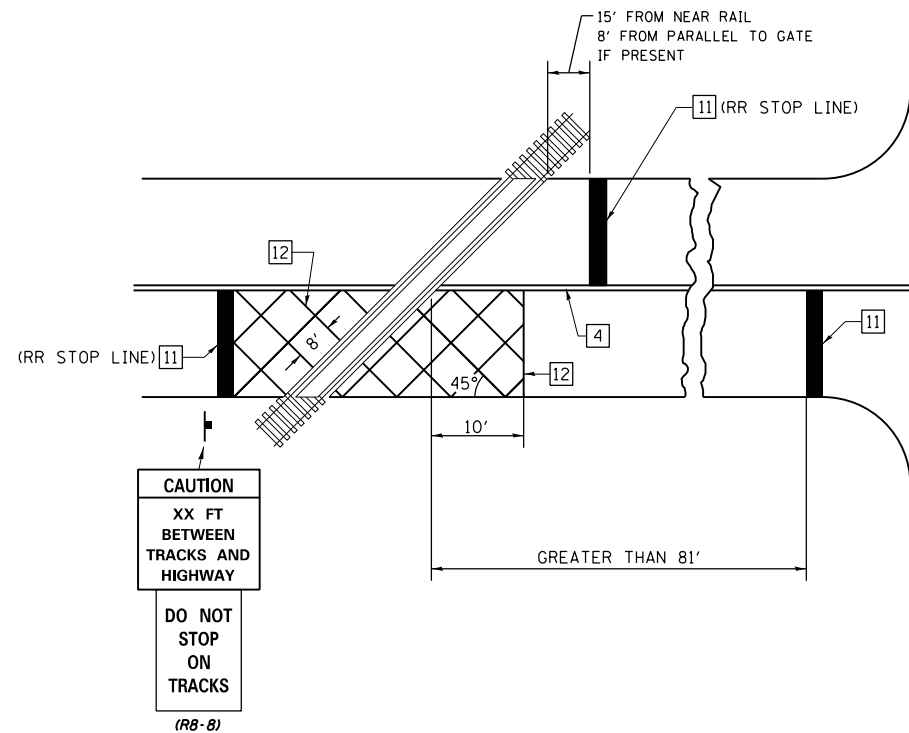
ON MULTI-LANE ROADS, THE STOP LINES SHALL EXTEND ACROSS ALL APPROACH LANES AND SEPARATE RXR SYMBOLS SHALL BE PLACED ADJACENT TO EACH OTHER IN EACH LANE.

WHEN THE PAVEMENT MARKING SYMBOL IS USED, A PORTION OF THE SYMBOL SHOULD BE LOCATED DIRECTLY ADJACENT TO THE ADVANCE WARNING SIGN (W10-1) AS PLACED BY TABLE II-1, CONDITION B OF THE MUTCD.

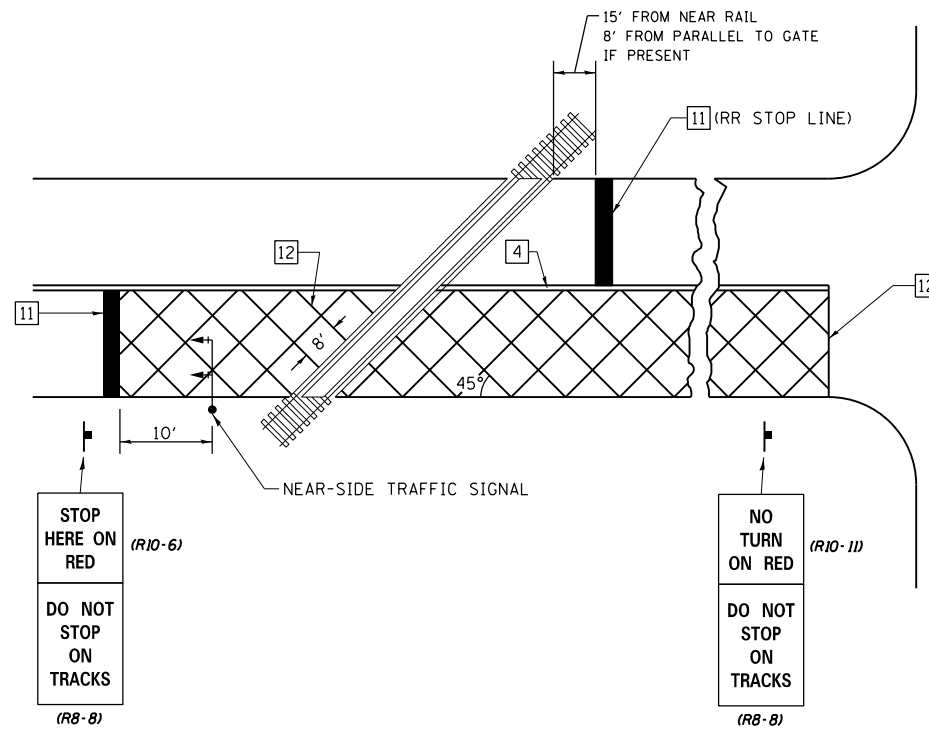
PAVEMENT MARKING LEGEND

- 1 4" (100) SKIP-DASH (YELLOW)
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- 7 6" (150) SKIP-DASH (WHITE)
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- 9 12" (300) DIAGONAL (WHITE)
- 10 6" (150) SOLID (WHITE)
- 11 24" (600) STOP BAR (WHITE)
- 12 8" (200) SOLID (WHITE)
- 13 4" (100) PARKING WHITE

RAILROAD CROSSING WITH INTERCONNECT ONLY



RAILROAD CROSSING WITH INTERCONNECT AND PRE-SIGNALS



GENERAL NOTES

- SUPPLEMENTAL PAVEMENT MARKINGS TO BE INSTALLED ONLY ON APPROACHES TO INTERSECTIONS CONTROLLED BY TRAFFIC SIGNALS WHICH ARE INTERCONNECTED WITH THE RAILROAD WARNING SIGNALS.
- EXTEND PAVEMENT MARKINGS TO THE INTERSECTION ONLY WHERE NEAR-SIDE TRAFFIC SIGNALS ARE USED.

SUPPLEMENTAL PAVEMENT MARKING TREATMENT FOR RAILROAD-HIGHWAY GRADE CROSSING

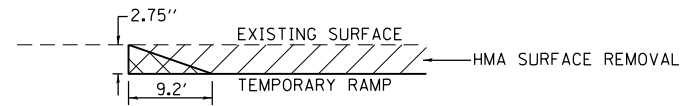
NOT TO SCALE

Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

DISTRICT 7 DETAIL NO. 7800001

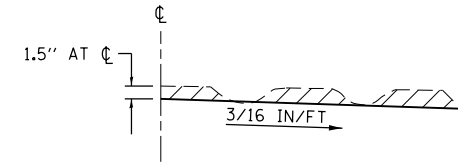
FILE NAME =	USER NAME = steffenmk	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PAVEMENT MARKING AND RAISED REFLECTIVE PAVEMENT MARKERS (RURAL & URBAN APPLICATIONS)	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
pw:\planroom.dot.illinois.gov\PIWIDOT\Documents\IDOT Offices\District 7\Projects\74694\DRAWN\CADsheets\0774694-shd-detail.dgn		REVISIONS				91	(51,51Z)RS-3	COLES	211	208
PLOT SCALE = 100.0000' / 1in.	CHECKED -	REVISED -				CONTRACT NO. 74694				
PLOT DATE = 10/18/2019	DATE -	REVISED -				ILLINOIS FED. AID PROJECT				

SCALE: SHEET NO. 4 OF 4 SHEETS STA. TO STA.



TEMPORARY RAMP

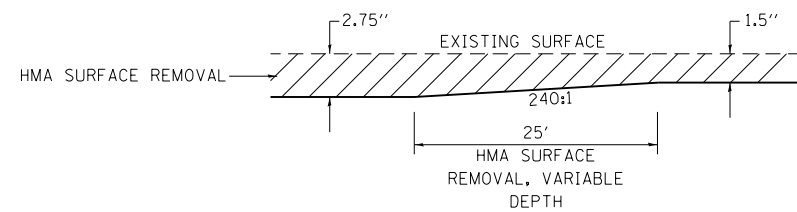
STA 459+75 TO STA 459+84.2
 STA 599+04.8 TO STA 599+14
 STA 616+46 TO STA 616+55.2
 STA 108+12.8 TO STA 108+22



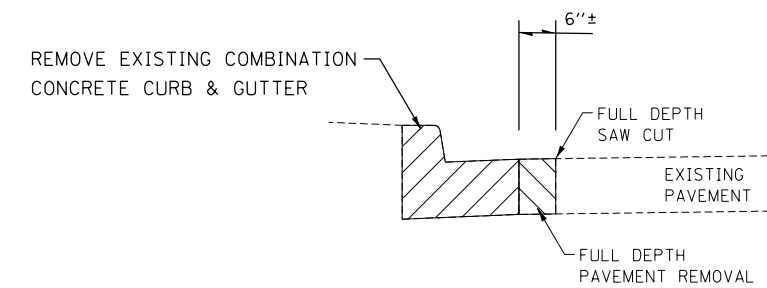
NOTES:

1. MILLING SHALL BE PERFORMED IN A MANNER TO ATTAIN A 3/16 IN/FT SLOPE IN CROWN SECTIONS.
2. EXISTING SUPERELEVATIONS AND SUPERELEVATION TRANSITIONS SHALL BE MAINTAINED UNLESS OTHERWISE INDICATED ON THE PLANS.
3. MILLING TO THE BOTTOM OF WHEEL RUTS SHALL NOT BE NECESSARY UNLESS REQUIRED TO ATTAIN SLOPE OR THE DESIGN DEPTH AT CENTERLINE.
4. THE AVERAGE DEPTH OF MILLING IS ESTIMATED TO BE 1.5 INCHES BUT MAY VARY IN ISOLATED LOCATIONS.

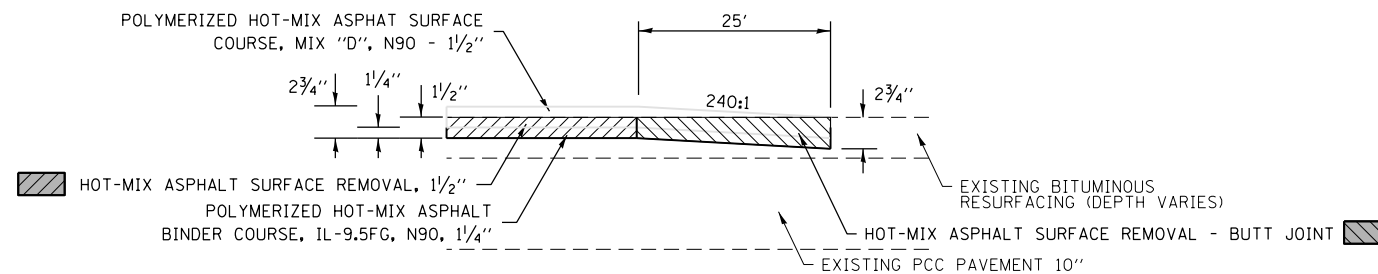
HMA SURFACE REMOVAL, 1.5" DETAIL
 STA 568+53.3 TO EAST PROJECT LIMIT



HMA SURFACE REMOVAL, VARIABLE DEPTH DETAIL
 STA 568+38.3 TO STA 568+63.3

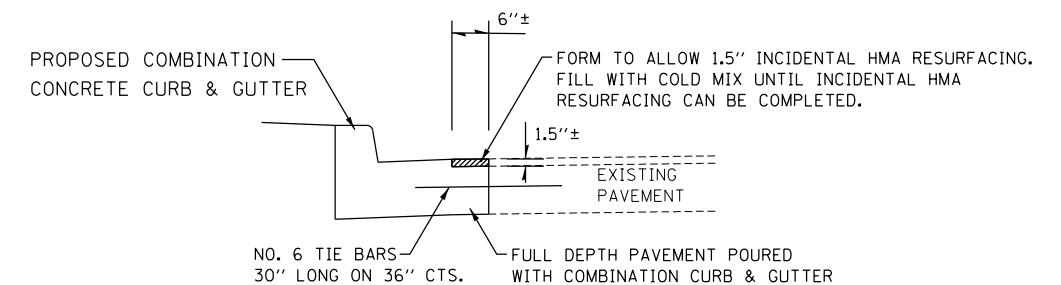


COMBINATION CURB & GUTTER REMOVAL (SPECIAL)
 NOT TO SCALE



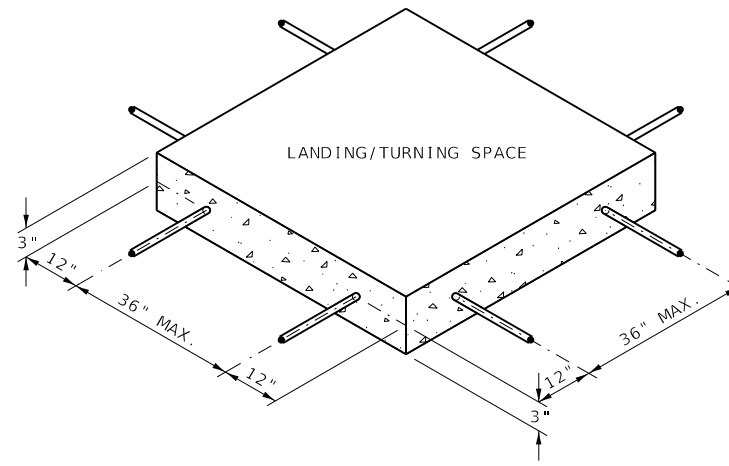
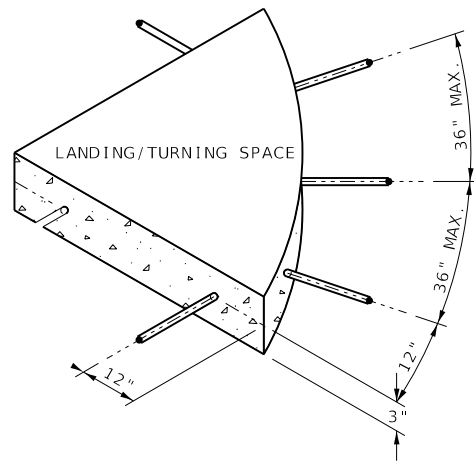
HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT DETAIL

STA 598+89 TO STA 599+14
 STA 616+46 TO STA 616+71
 STA 107+97 TO STA 108+22

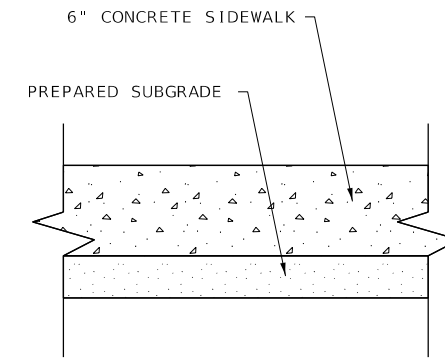


COMBINATION CONCRETE CURB & GUTTER, TYPE B (SPECIAL)
 NOT TO SCALE

FILE NAME =	USER NAME = steffenk	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DETAILS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
pw:\planroom.dot.illinois.gov\PIDOT\Documents\IDOT Offices\District 7\Projects\74694\DRAWING\CADsheets\0774694-shr-detail.dgn		REVISION	REVISION			91	(50,51,51Z)RS-3	COLES	211	209	
Default	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -			CONTRACT NO. 74694					
	PLOT DATE = 12/11/2019	DATE -	REVISED -			ILLINOIS FED. AID PROJECT					



SIDEWALK REINFORCEMENT

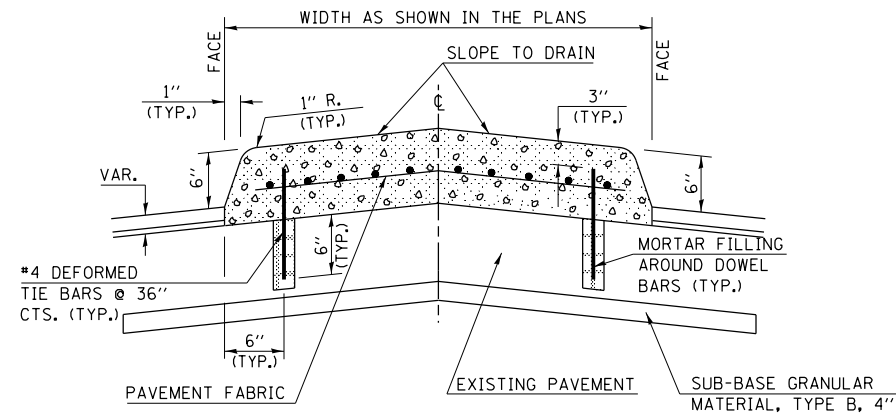


TYPICAL SIDEWALK SECTION WITHIN INTERSECTION CORNER

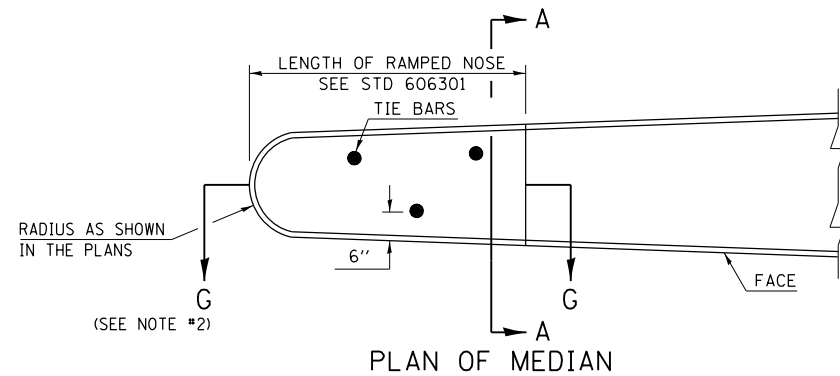
DETAIL OF CONCRETE MEDIAN, TYPE SB-6.06 (DOWELLED)

GENERAL NOTES

1. THE GENERAL NOTES FOR STANDARD 606301 SHALL APPLY.
2. SECTION G-G SHALL BE THE SAME AS SHOWN ON STANDARD 606301.
3. DOWEL BARS @ 36" CTS. OR AS DIRECTED BY THE ENGINEER.

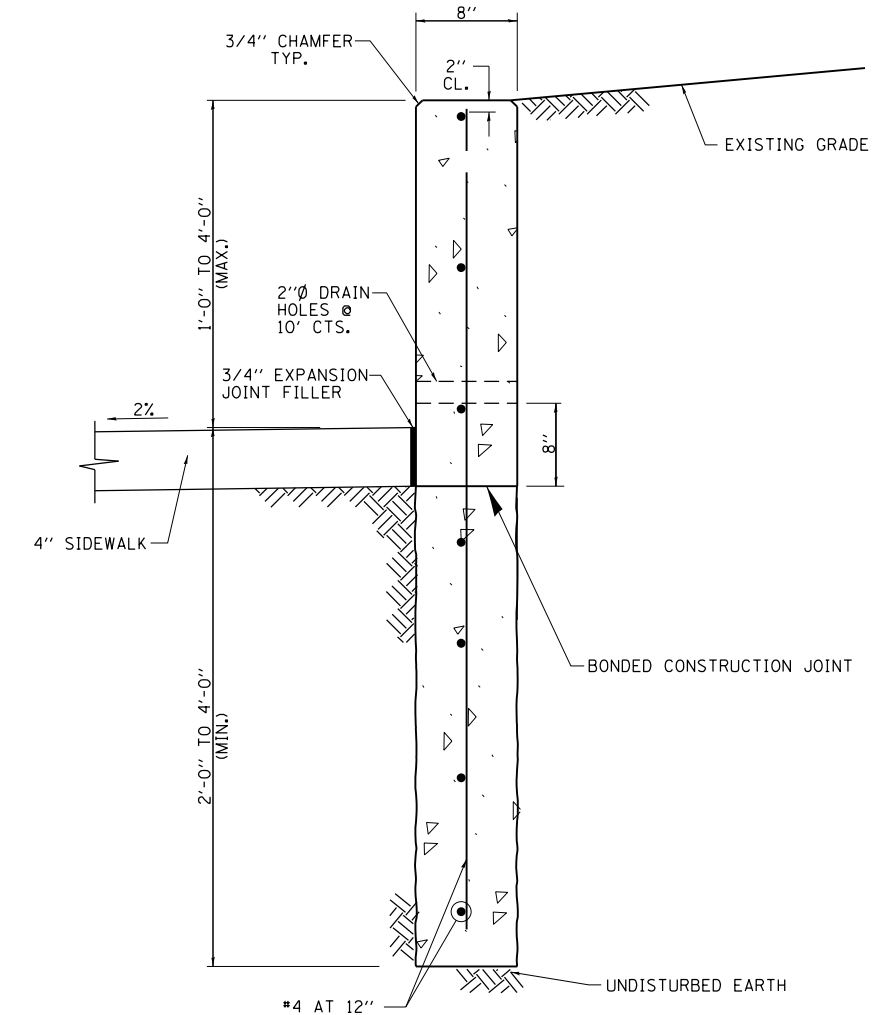


SECTION A-A



PLAN OF MEDIAN

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE SHOWN.



CONCRETE CURB, TYPE B (SPECIAL) DETAIL

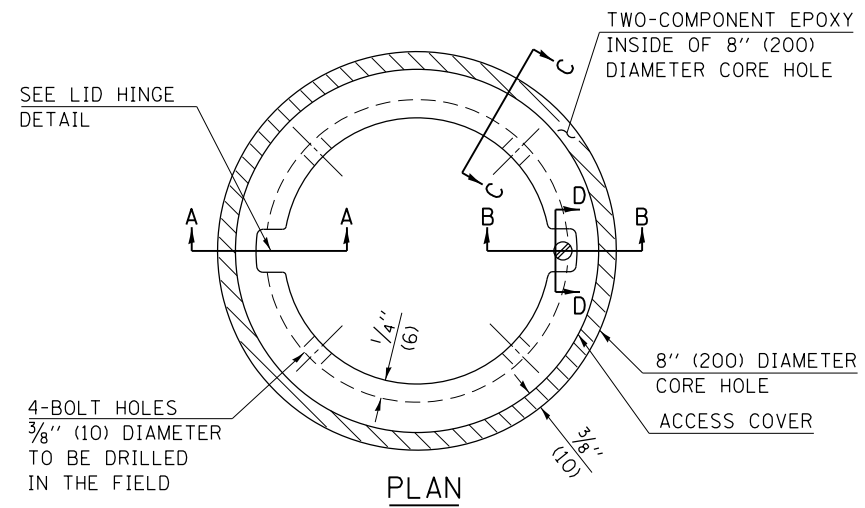
FILE NAME =	USER NAME = steffennk	DESIGNED -	REVISED -
pw:\planroom.dot\illinois.gov\PIDOT\Documents\IDOT Offices\District 7\Projects\74694\DRAWING\CADsheets\0774694-shd-detail.dgn		REVISION	REVISED -
Default	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -
	PLOT DATE = 10/15/2019	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DETAILS

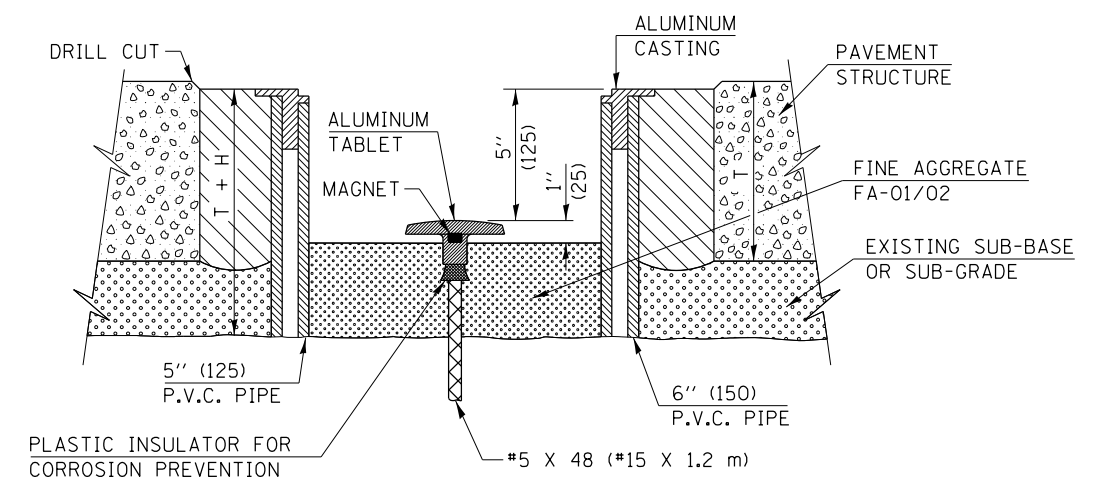
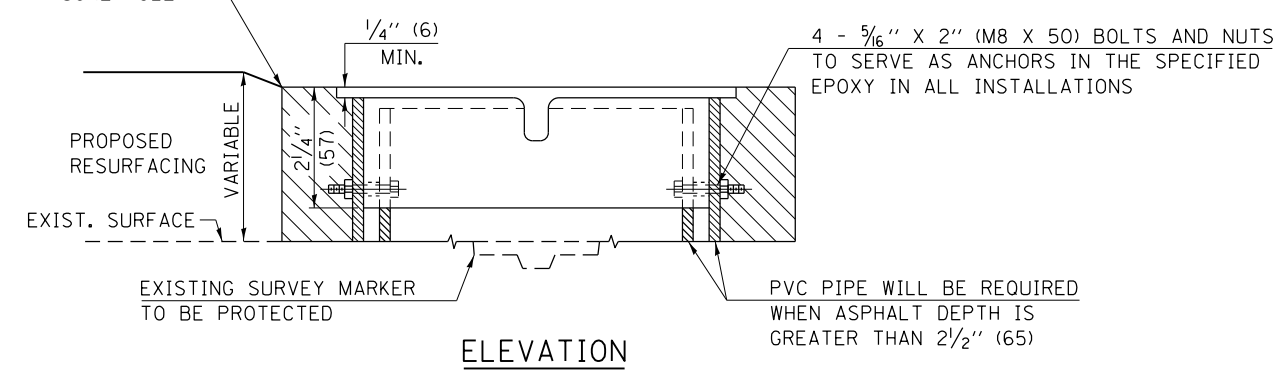
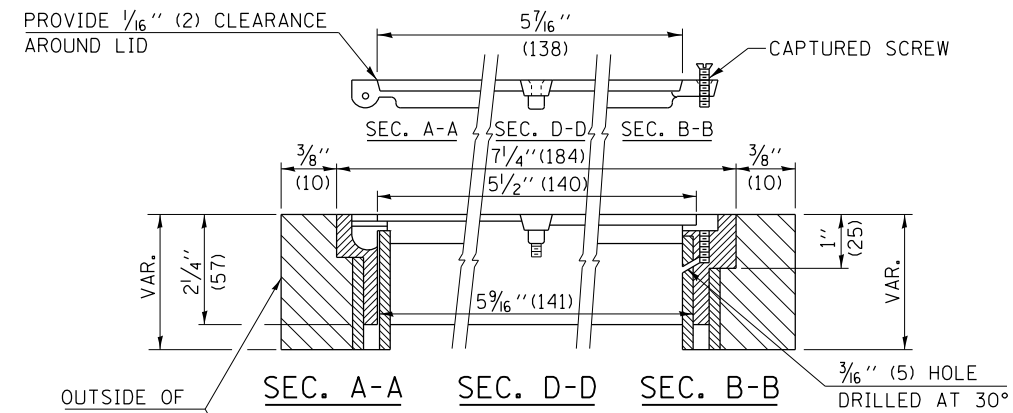
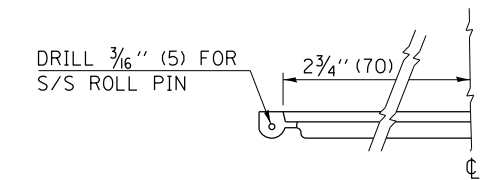
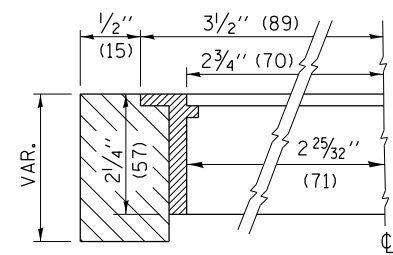
SCALE: N/A SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
91	(51,51Z)RS-3	COLES	211	210
CONTRACT NO. 74694				
ILLINOIS FED. AID PROJECT				



- LEGEND**
- ALUMINUM CASTING
 - 5" (125) OR 6" (150) P.V.C. PIPE
 - TWO-COMPONENT EPOXY
- T = THICKNESS OF PAVEMENT STRUCTURE
- H = THE THICKNESS OF THE SUB-BASE GRANULAR + 1" (25)

BILL OF MATERIAL	
ALUMINUM CASTING OF THE DIMENSIONS AND SPECIFICATIONS SHOWN OR OTHER SUBJECT TO ENGINEER'S APPROVAL OF SHOP DRAWINGS,	
4 EACH - 5/16" X 2" (M8 X 50) BOLTS WITH NUTS, EPOXY,	
5" OR 6" (125 mm OR 150 mm) DIAMETER P.V.C. PIPE, SCHEDULE 40 (WHEN REQUIRED).	



NOT TO SCALE

Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

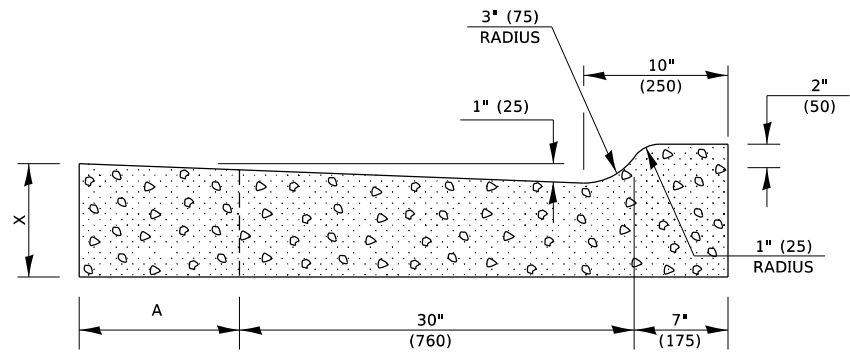
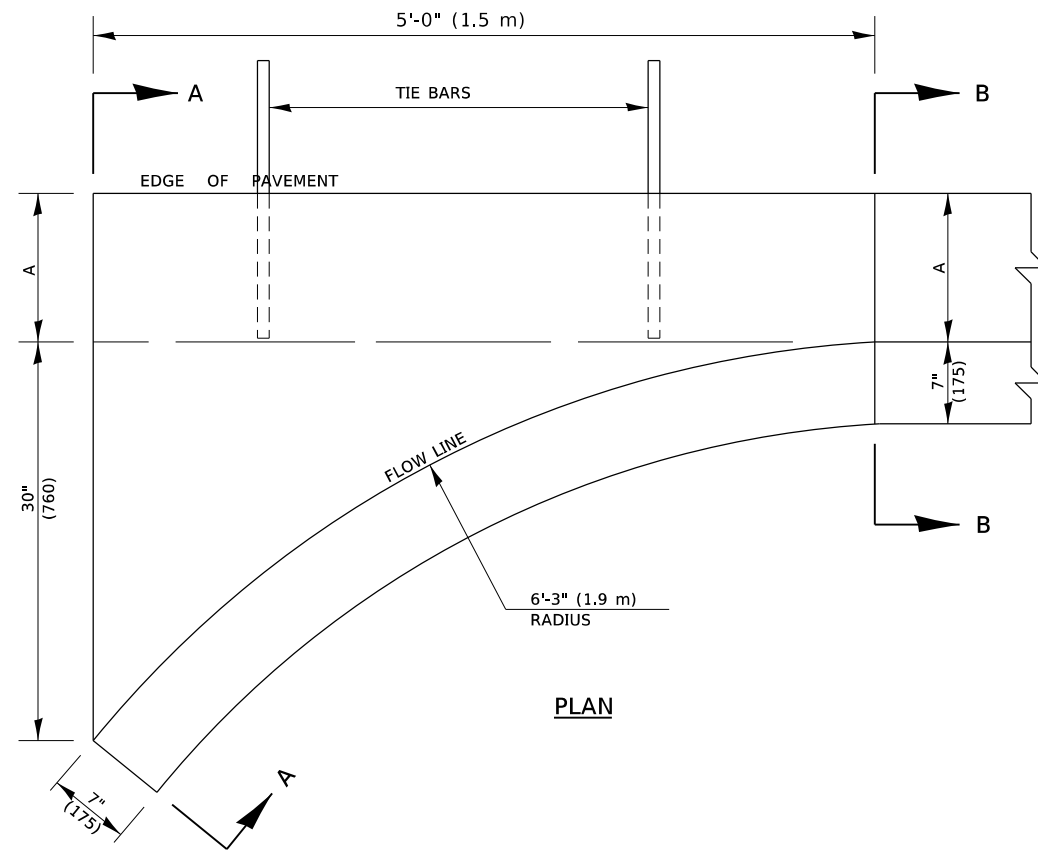
FILE NAME =	USER NAME = steffennk	DESIGNED -	REVISED - MAD 6-11
pw:\planroom.dot.illinois.gov\PIDOT\Documents\IDOT Offices\District 7\Projects\74694\DRAWING\CADsheets\0774694-sht-detail.dgn		REVISION	REVISION
	PLOT SCALE = 100.0000' / 1in.	CHECKED -	REVISED -
	PLOT DATE = 10/15/2019	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

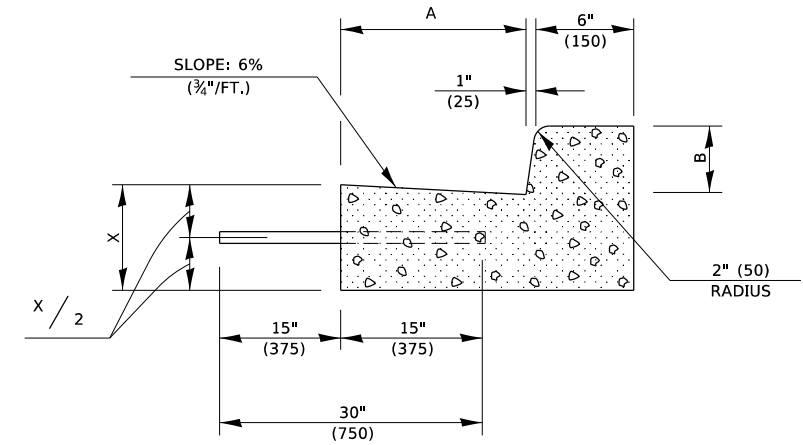
SURVEY MARKER VAULT				
SCALE:	SHEET NO.	OF SHEETS	STA.	TO STA.

DISTRICT 7 DETAIL NO. Z0070202				
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
91	(50,51,51Z)RS-3	COLES	211	211
CONTRACT NO.				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

MODEL: Default
 FILE NAME: P:\pub\lansom_data\illinois.gov\PWIDOT\Documents\DOT_Offices\District 7\Projects\74694\CADD\Drawings\74694-shc-detaill.dgn



SECTION A-A



SECTION B-B

GENERAL NOTES

1. CLASS SI CONCRETE SHALL BE USED THROUGHOUT.
2. TIE BARS SHALL BE NO. 6 (NO. 20) AT 24" (600 mm) CENTERS UNLESS OTHERWISE SHOWN. OUTLETS SHALL BE TIED TO THE PAVEMENT IN ACCORDANCE WITH DETAILS FOR LONGITUDINAL CONSTRUCTION JOINT SHOWN ON STANDARD 420001.
3. WHEN SPECIAL OUTLET IS CONSTRUCTED ADJACENT TO FLEXIBLE PAVEMENT, THE TIE BARS SHALL BE OMITTED AND ALL CONSTRUCTION JOINTS SHALL BE PROVIDED WITH A DOWEL BAR CONFORMING TO ARTICLE 1006.11(b).

	B-6.12 (B15.30)		B-9.12 (B-22.30)		B-6.18 (B-15.45)		B-9.18 (B22.45)		B-6.24 (B15.60)		B-9.24 (B-22.60)	
A	12" (300)	12" (300)	12" (300)	12" (300)	18" (450)	18" (450)	18" (450)	18" (450)	24" (600)	24" (600)	24" (600)	24" (600)
B	6" (150)	6" (150)	9" (225)	9" (225)	6" (150)	6" (150)	9" (225)	9" (225)	6" (150)	6" (150)	9" (225)	9" (225)
X	9" (225)	10" (250)	9" (225)	10" (250)	9" (225)	10" (250)	9" (225)	10" (250)	9" (225)	10" (250)	9" (225)	10" (250)
CU. YD. (m ³)	0.37 (0.28)	0.42 (0.32)	0.38 (0.29)	0.42 (0.32)	0.44 (0.34)	0.49 (0.37)	0.45 (0.34)	0.50 (0.38)	0.51 (0.39)	0.56 (0.43)	0.52 (0.40)	0.57 (0.44)

NOT TO SCALE
 Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

DISTRICT 7 DETAIL NO. X6060097

USER NAME = stefenmk	DESIGNED -	REVISED -
PLOT SCALE = 100.0000' / in.	DRAWN -	REVISED -
PLOT DATE = 10/15/2019	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

CLASS SI CONCRETE (OUTLET), SPECIAL

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
91	(51,51Z)RS-3	COLES	211	211a
CONTRACT NO. 74694				
ILLINOIS FED. AID PROJECT				