

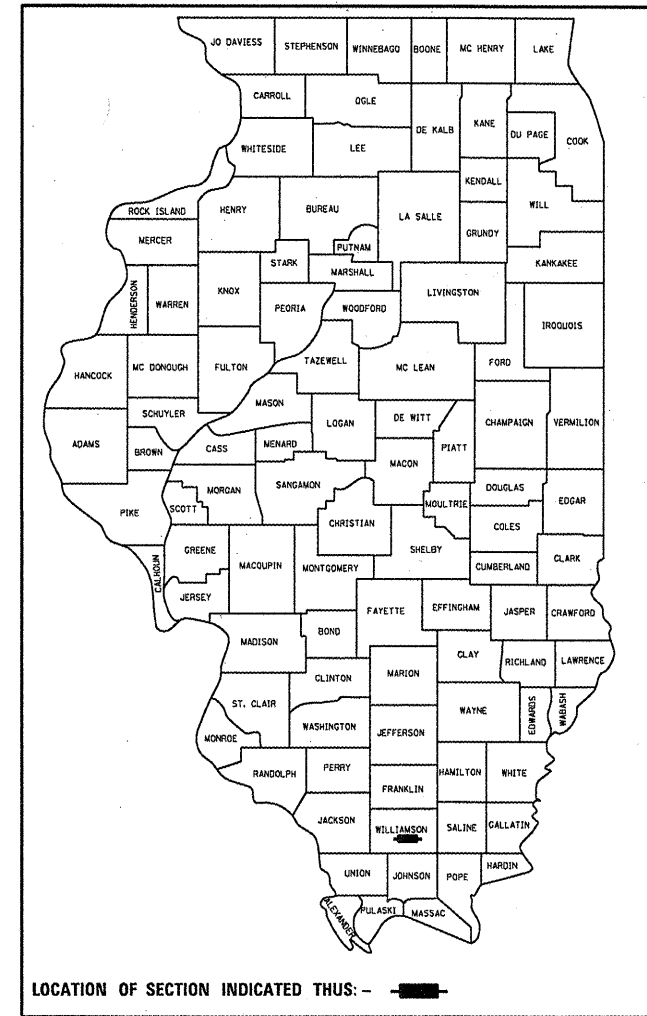
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

**PROPOSED
HIGHWAY PLANS**

FOR INDEX OF SHEETS, SEE SHEET NO. 2
FOR SUMMARY OF QUANTITIES, SEE SHEET NO. 3

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
726	D9 TRAFFIC SIGNAL 2012-2	WILLIAMSON	6	1
		ILLINOIS	CONTRACT NO. 78296	

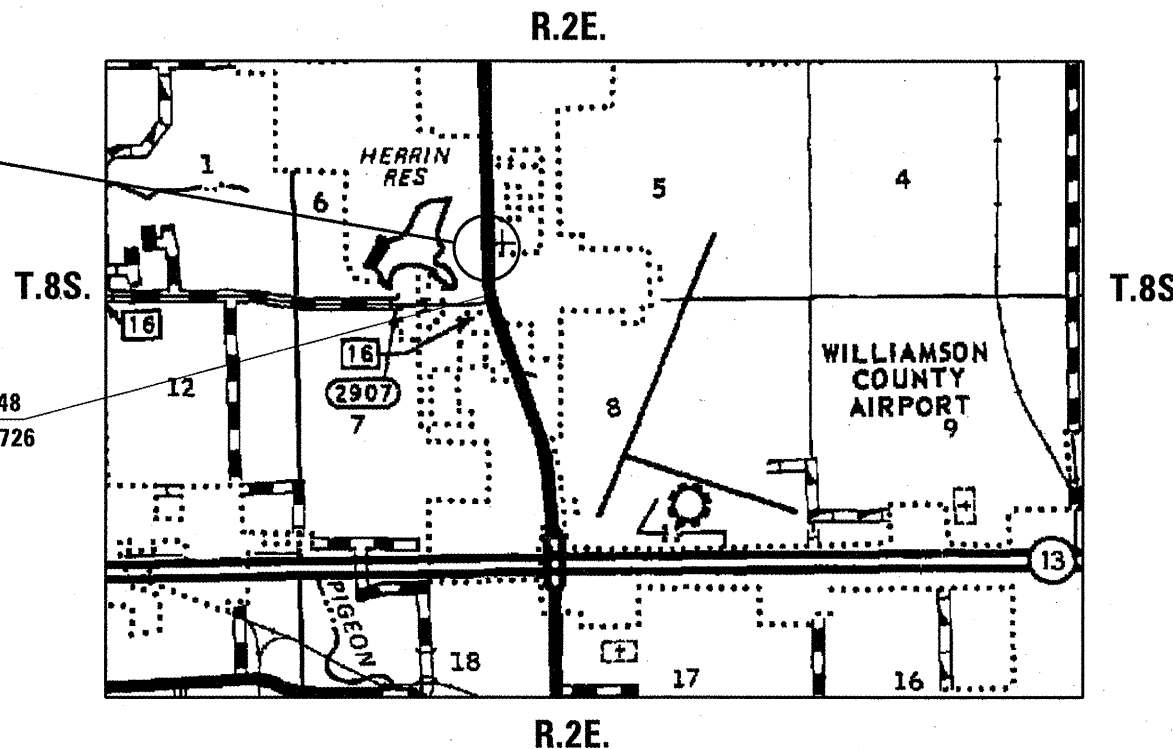
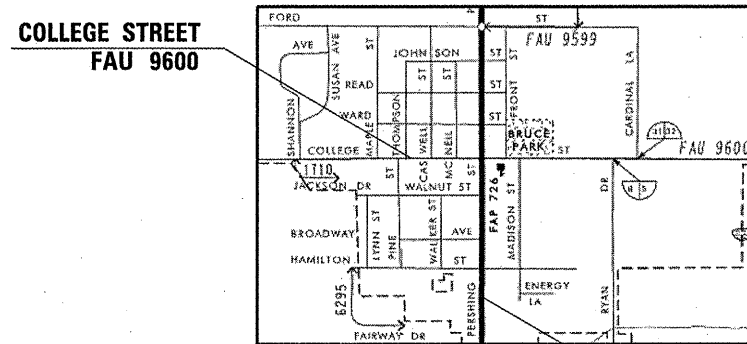
D-99-020-12



IL 148 (FAP 726)
SECTION D9 TRAFFIC SIGNAL 2012-2
TRAFFIC SIGNAL MODERNIZATION
WILLIAMSON COUNTY
C-99-024-12

TRAFFIC DATA

IL 148 NORTH OF COLLEGE ST - 17,400 (2011) 4% TRUCKS
COLLEGE ST WEST OF IL 148 - 2,400 (2012) 1% TRUCKS
IL 148 SOUTH OF COLLEGE ST - 15,100 (2011) 4% TRUCKS
COLLEGE ST EAST OF IL 148 - 3,600 (2012) 2% TRUCKS



0 50' 100' — 1" = 20' PLAN SHEET

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

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

PROJECT ENGINEER SUSAN POE
PROJECT MANAGER SUSAN POE

CONTRACT NO. 78296

GROSS LENGTH = SIGNALS WITHIN INTERSECTION
NET LENGTH = SIGNALS WITHIN INTERSECTION

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED *March 27 20 12*
Chris Cameron
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

May 11 20 12
John D. Baramelli, P.E.
ENGINEER OF DESIGN AND ENVIRONMENT

May 11 20 12
William R. Freyler
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

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

INDEX OF SHEETS

- 1 COVER SHEET
- 2 GENERAL NOTES, INDEX OF SHEETS, STANDARDS
- 3 SUMMARY OF QUANTITIES
- 4 PROPOSED TRAFFIC SIGNAL PLAN
- 5 PROPOSED TRAFFIC SIGNAL CABLE DIAGRAM
- 6 DETAILS - PHASE DESIGNATION DIAGRAM, SERVICE INSTALLATION DETAIL

STANDARDS

- 000001-06 STANDARD SYMBOLS, ABBREVIATIONS & PATTERNS
- 001006 DECIMAL OF AN INCH AND OF A FOOT
- 701001-02 OFF-ROAD OPERATIONS, 2L, 2W, MORE THAN 15' AWAY
- 701006-03 OFF-ROAD OPERATIONS, 2L, 2W, MORE THAN 15' TO 24" FROM PAVEMENT EDGE
- 701101-02 OFF-ROAD OPERATIONS, MULTILANE, 15' TO 24" FROM PAVEMENT EDGE
- 701106-02 OFF-ROAD OPERATIONS, MULTILANE, MORE THAN 15' AWAY
- 701701-08 URBAN LANE CLOSURE, MULTILANE INTERSECTION
- 701801-05 LANE CLOSURE MULTILANE 1W OR 2W CROSSWALK OR SIDEROAD CLOSURE
- 701901-02 TRAFFIC CONTROL DEVICES
- 857001-01 STANDARD PHASE DESIGNATION DIAGRAMS AND PHASE SEQUENCES
- 880006-01 TRAFFIC SIGNAL MOUNTING DETAILS

GENERAL NOTES

ALL NON-ESSENTIAL ELECTRIC CABLE SHALL BE REMOVED FROM EXISTING CONDUIT THAT IS TO BE REUSED FOR INSTALLATION OF PROPOSED ELECTRIC CABLE. THIS WORK WILL BE CONSIDERED INCLUDED IN THE PROPOSED ELECTRIC CABLE PAY ITEM.

SHIELDED CABLE TO LOOP LEADS SHALL BE GROUNDED AT THE CONTROLLER TERMINAL ONLY.

EXISTING SURFACE DISTURBED SHALL BE RESTORED TO THE LIMITS AND CONDITIONS SPECIFIED BY THE ENGINEER OR AS SHOWN ON THE PLANS. UNLESS OTHERWISE NOTED ON THE PLANS THE REMOVAL AND RESTORATION SHALL BE INCLUDED IN THE CONTRACT.

THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF TRAFFIC OPERATIONS 72 HOURS PRIOR TO THE SHUT-DOWN OR CUTTING OF EXISTING DETECTOR LOOPS.

ALL PROPOSED TRAFFIC SIGNAL POSTS WILL BE LOCATED NO CLOSER THAN 4 1/2 FEET FROM FACE OF CURB TO CENTER OF POST (UNLESS APPROVED BY TRAFFIC OPERATIONS).

COMMITMENTS

NONE

Prepared By: Joe Zdaniewicz
DISTRICT STUDIES & PLANS ENGINEER

Examined By: Paul E.
DISTRICT LAND ACQUISITION ENGINEER

Examined By: Carrin Nelson
DISTRICT PROGRAM DEVELOPMENT ENGINEER

Examined By: Keel Kelly
DISTRICT OPERATIONS ENGINEER

Examined By: Douglas J. Sulphic
DISTRICT CONSTRUCTION ENGINEER

Examined By: Bruce Riddle
DISTRICT MATERIALS ENGINEER

Examined By: K. K. S.
DISTRICT PROJECT IMPLEMENTATION ENGINEER

Approved By: Orin Asman
DEPUTY DIRECTOR OF HIGHWAYS, REGION 5 ENGINEER

March 22 20 12
DATE

FILE NAME *	USER NAME * poe1	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GENERAL NOTES, INDEX OF SHEETS AND STANDARDS			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
c:\pw\work\p\dot\poe1\0292767\78296	ht-pln.dgn	DRAWN -	REVISED -					726	09 TRAFFIC SIGNAL 2012-2	WILLIAMSON	6	2
	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -		CONTRACT NO. 78296			[ILLINOIS] FED. AID PROJECT				
	PLOT DATE = 3/15/2012	DATE -	REVISED -		SCALE:	SHEET NO.	OF	SHEETS	STA.	TO STA.		

SUMMARY OF QUANTITIES

CODE NO.	ITEM	CONSTRUCTION TYPE CODE	
		UNIT	0021 URBAN TOTAL QUANTITIES SIGNALS 100% STATE
X8050115	SERVICE INSTALLATION, TYPE A (MODIFIED)	EACH	1
X8850106	INDUCTIVE LOOP DETECTOR, RACK MOUNTED	EACH	4
67100100	MOBILIZATION	L SUM	1
70102635	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	L SUM	1
70102640	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	L SUM	1
85700200	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET	EACH	1
87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	334
87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	852

SUMMARY OF QUANTITIES

CODE NO.	ITEM	CONSTRUCTION TYPE CODE	
		UNIT	0021 URBAN TOTAL QUANTITIES SIGNALS 100% STATE
87301255	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	405
87301305	ELECTRIC CABLE IN CONDUIT, LEAD IN, NO. 14 1 PAIR	FOOT	252
87501200	TRAFFIC SIGNAL POST, 16 FT.	EACH	3
88040070	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	3
88040090	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	4
88200100	TRAFFIC SIGNAL BACKPLATE	EACH	4
89500200	RELOCATE EXISTING PEDESTRIAN SIGNAL HEAD	EACH	3
89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1

FILE NAME =	USER NAME = poss1	DESIGNED -	REVISED -
ci\pwwork\pwwork\poss1\08292767\78296-	ht-pln.dgn	DRAWN -	REVISED -
	PLOT SCALE = 100.0000 * / in.	CHECKED -	REVISED -
	PLOT DATE = 3/16/2012	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

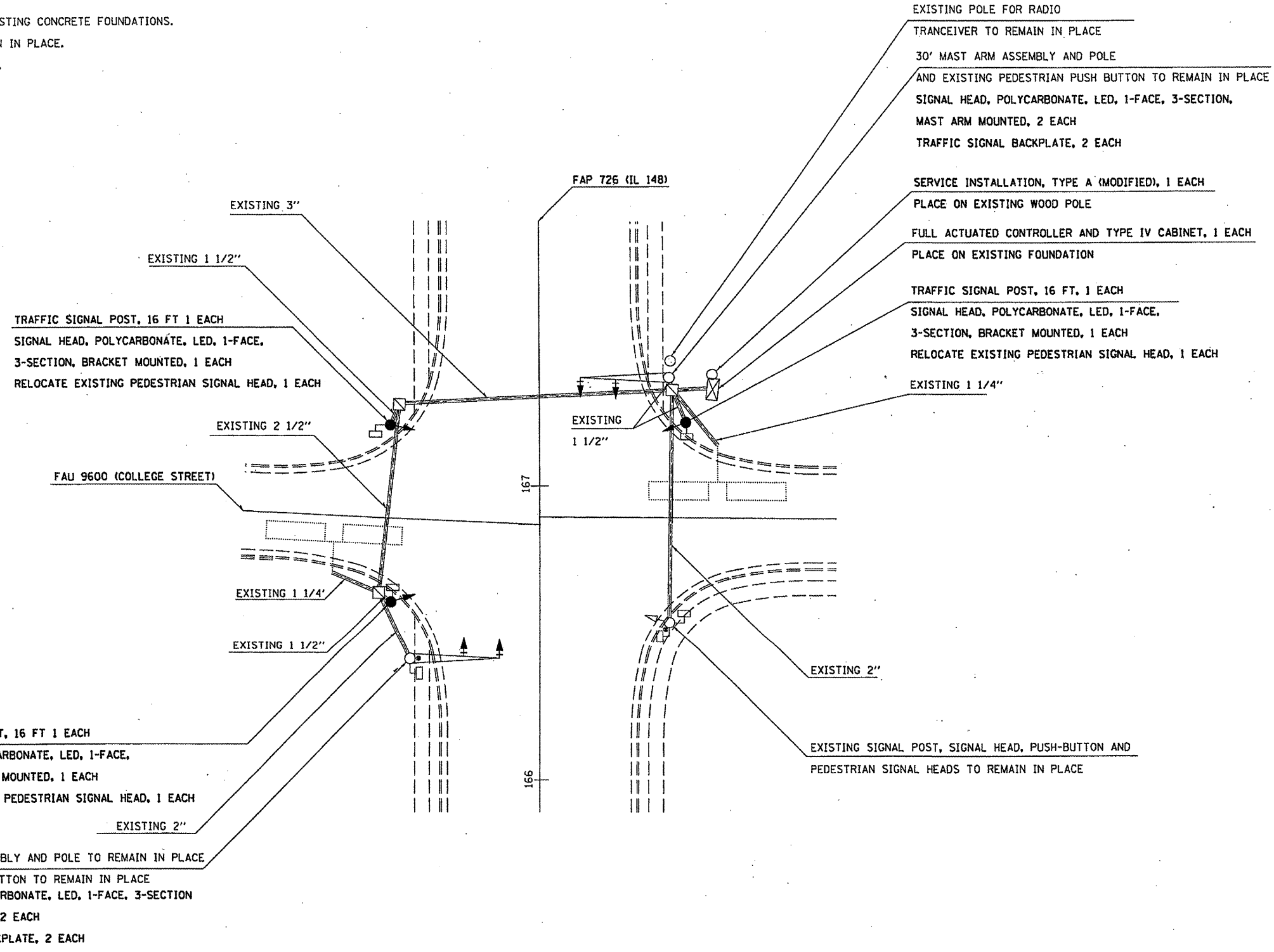
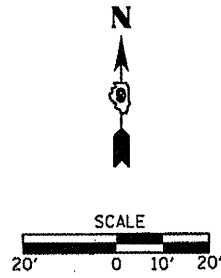
SUMMARY OF QUANTITIES

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
726	D9 TRAFFIC SIGNAL 2012-2	WILLIAMSON	6	3
CONTRACT NO. 78296			ILLINOIS FED. AID PROJECT	

NOTES:

PLACE PROPOSED TRAFFIC SIGNAL POSTS ON EXISTING CONCRETE FOUNDATIONS.
 EXISTING GALVANIZED STEEL CONDUIT TO REMAIN IN PLACE.
 EXISTING DETECTOR LOOPS TO REMAIN IN PLACE.
 EXISTING HANDHOLES TO REMAIN IN PLACE.



FILE NAME =	USER NAME = poeal	DESIGNED -	REVISED -
c:\pwwork\pindot\poeal\d0292767\78296-	tblt.pln.dgn	DRAWN -	REVISED -
		CHECKED -	REVISED -
		DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

PROPOSED TRAFFIC SIGNAL PLAN			
SCALE:	SHEET	OF	SHEETS
		STA.	TO STA.

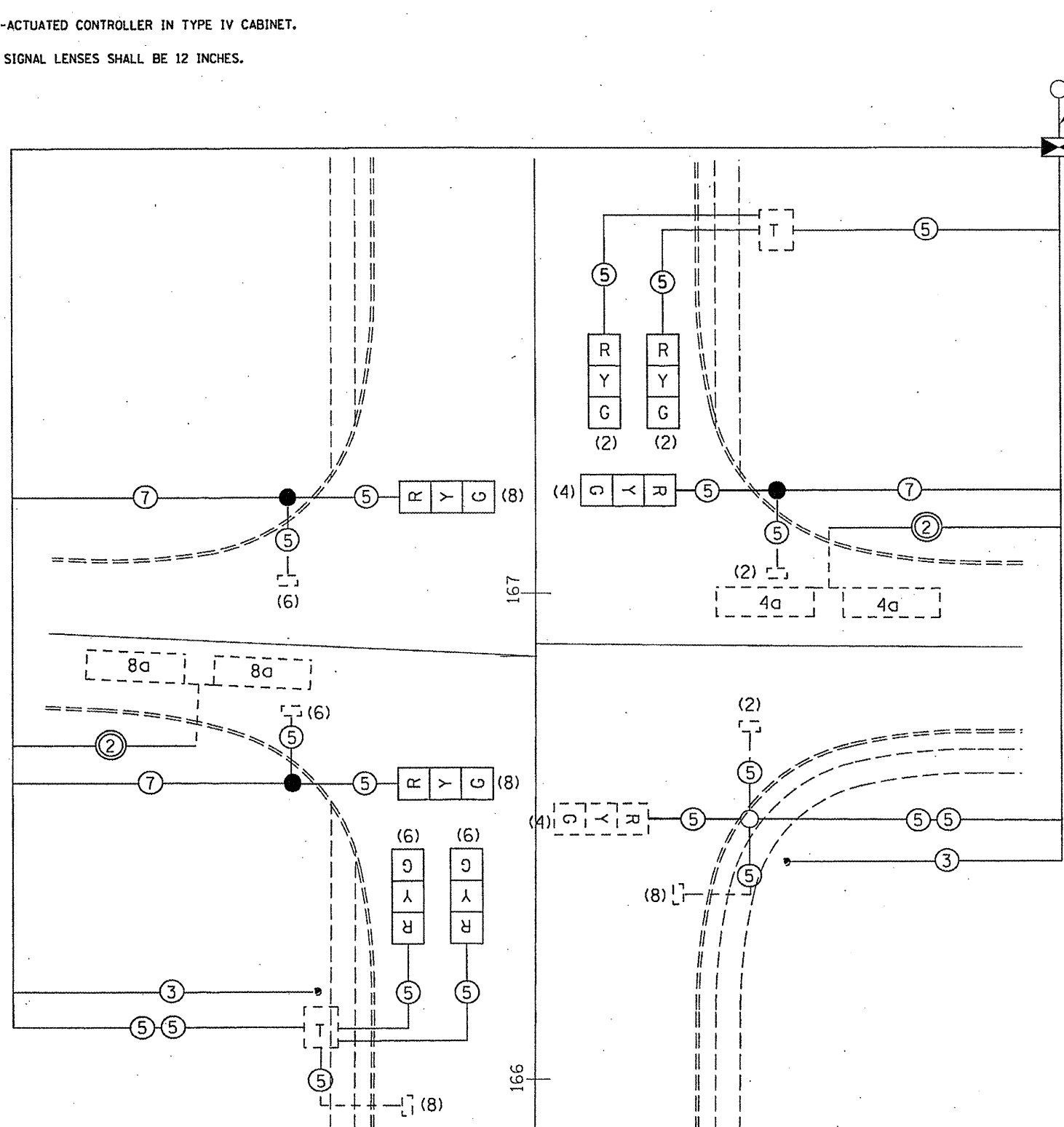
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
726	09 TRAFFIC SIGNAL 2012-2	WILLIAMSON	6	4
				CONTRACT NO. 78296
ILLINOIS FED. AID PROJECT				

NOTES:

1. ALL CABLES SHALL BE A.W.G. #14 UNLESS OTHERWISE NOTED.
2. ELECTRIC SERVICE IS SUPPLIED BY ***.
3. PROPOSED COAXIAL CABLE INCLUDED IN THE COST OF THE FULL-ACTUATED CONTROLLER IN TYPE IV CABINET.
4. ALL SIGNAL LENSES SHALL BE 12 INCHES.



NOT TO SCALE

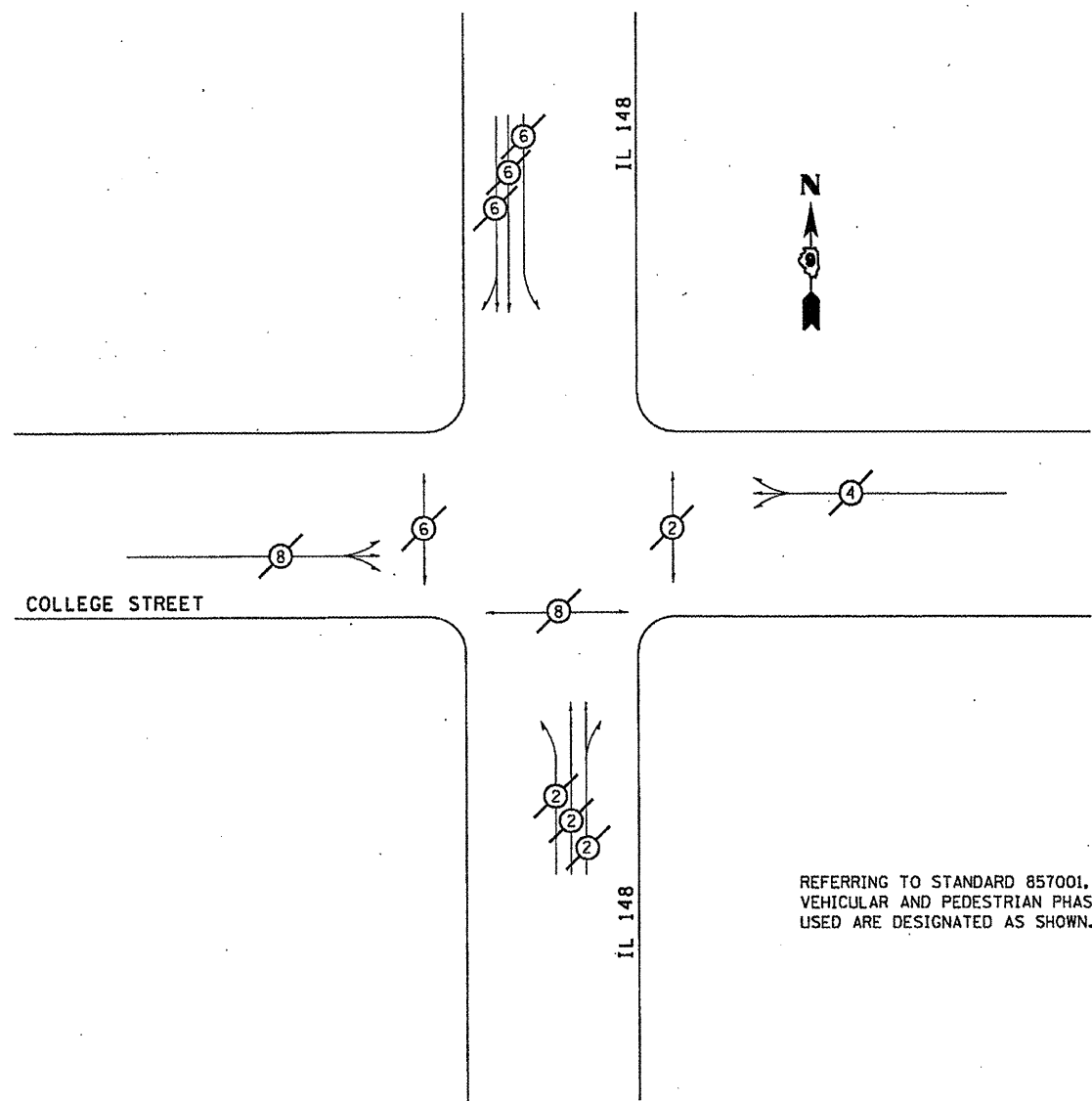


LEGEND

- T TERMINAL BLOCK IN MAST ARM POLE BASE (SEE SPECIAL PROVISIONS).
- G 12" TRAFFIC SIGNAL SECTION. LETTER INDICATES COLOR.
- ◻ TRAFFIC SIGNAL CONTROLLER CABINET
- 2 INDICATES 2/C TWISTED, SHIELDED CABLE IN CONDUIT
- 5 NUMBER IN CIRCLE INDICATES NUMBER OF CONDUCTORS IN THAT CABLE
- (4) NUMBER IN PARENTHESIS INDICATES PHASE
- 8a EXISTING DETECTOR LOOP
NUMBER INDICATES PHASE, LOWER CASE LETTER INDICATES AMPLIFIER.
- EXISTING ANTENNA POLE
- ⌈ EXISTING PEDESTRIAN SIGNAL HEAD
- EXISTING PEDESTRIAN PUSH-BUTTON

FILE NAME =	USER NAME = poeal	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PROPOSED TRAFFIC SIGNAL CABLE DIAGRAM	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
c:\pwork\pwidot\poeal\48292767\78296	ht-pln.dgn	DRAWN -	REVISED -			726	09 TRAFFIC SIGNAL 2012-2	WILLIAMSON	6	5	
	PLOT SCALE = 48.0000' / in.	CHECKED -	REVISED -			CONTRACT NO. 79296					
	PLOT DATE = 3/15/2012	DATE -	REVISED -			ILLINOIS FED. AID PROJECT					
					SCALE:	SHEET OF SHEETS		STA.	TO STA.		

**PHASE DESIGNATION DIAGRAM
IL RTE 148 WITH COLLEGE STREET**



REFERRING TO STANDARD 857001, THE VEHICULAR AND PEDESTRIAN PHASES USED ARE DESIGNATED AS SHOWN.

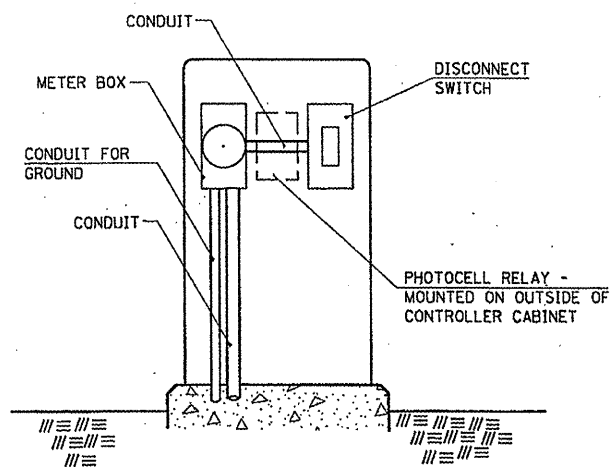
LEGEND

- — VEHICULAR MOVEMENT
- — PEDESTRIAN MOVEMENT
- NUMBER REFERS TO ASSOCIATED PHASE

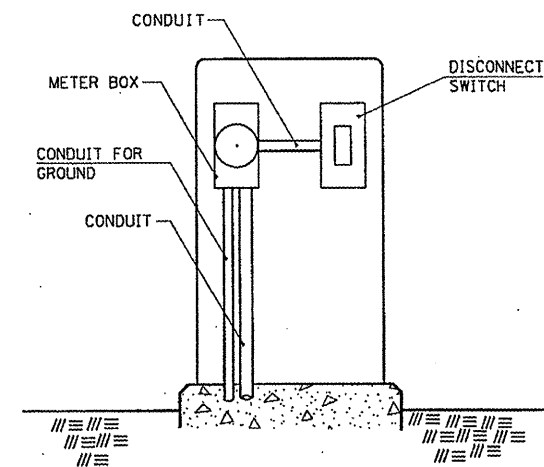
REVISIONS	
DRAWN	1-31-90
REVISED	5-30-90
REVISED	12-18-01
REVISED	3-27-08

STD. 9-66

SERVICE INSTALLATION DETAILS



**SERVICE INSTALLATION (SPECIAL)
WITH PHOTOCELL RELAY**



SERVICE INSTALLATION (SPECIAL)

NOTE:
MATERIAL AND SIZE OF CONDUIT
AND CABLE AS REQUIRED BY
UTILITY COMPANY

REVISIONS	
DRAWN	1-31-90
REVISED	2-24-92
RESIZED	5-7-08

STD. 9-68

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PHASE DESIGNATION DIAGRAM
SERVICE INSTALLATION DETAIL**

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
726	D9 TRAFFIC SIGNAL 2012-2	WILLIAMSON	6	6
CONTRACT NO. 78296			ILLINOIS FED. AID PROJECT	

SCALE: SHEET OF SHEETS STA. TO STA.

FILE NAME =	USER NAME = poe1	DESIGNED -	REVISED -
c:\pwwork\p1\dot\poe1\d0292767\78296-01-01.plndgn		DRAWN -	REVISED -
PLOT SCALE = 80.0000' / 1"		CHECKED -	REVISED -
PLOT DATE = 3/15/2012		DATE -	REVISED -