

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
623	(31) TS	LASALLE	8	1
		ILLINOIS	CONTRACT NO. 66H45	

INDEX OF SHEETS

- 1 COVER SHEET
- 2 GENERAL NOTES
- 3-4 SUMMARY OF QUANTITIES
- 5 TRAFFIC SIGNAL INSTALLATION PLAN
- 6 CABLE PLAN AND PHASE DESIGNATION DIAGRAM
- 7 SPAN WIRE LOADING DIAGRAMS
- 8 DETAILS

FOR INFORMATION ONLY

**PROPOSED
HIGHWAY PLANS**

FAP ROUTE 623 (US 6)
SECTION (31) TS

**TRAFFIC SIGNAL INSTALLATION
LASALLE COUNTY**

C-93-088-17

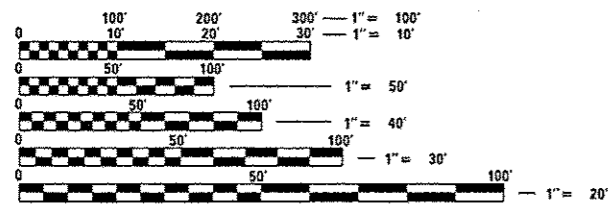
LIST OF ILLINOIS DOT HIGHWAY STANDARDS

000001-06	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001006	DECIMAL OF AN INCH AND OF A FOOT
701001-02	OFF-ROAD OPERATIONS 2L, 2W, MORE THAN 15' (4.5 m) AWAY
701006-05	OFF-ROAD OPERATIONS 2L, 2W, 15' (4.5 m) TO 24" (600 mm) FROM PAVEMENT EDGE
701201-04	LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS ≥ 45 MPH
701901-06	TRAFFIC CONTROL DEVICES
720001-01	SIGN PANEL MOUNTING DETAILS
720006-04	SIGN PANEL ERECTION DETAILS
857001-01	STANDARD PHASE DESIGNATION DIAGRAMS AND PHASE SEQUENCES
862001-01	UNINTERRUPTABLE POWER SUPPLY (UPS)
873001-02	TRAFFIC SIGNAL GROUNDING & BONDING
880001-01	SPAN WIRE MOUNTED SIGNALS AND FLASHING BEACON INSTALLATION



EAST LEG - MINOR ARTERIAL
2015 ADT = 5,250
P.V. = 88.6% S.U. = 4.3% M.U. = 7.1%

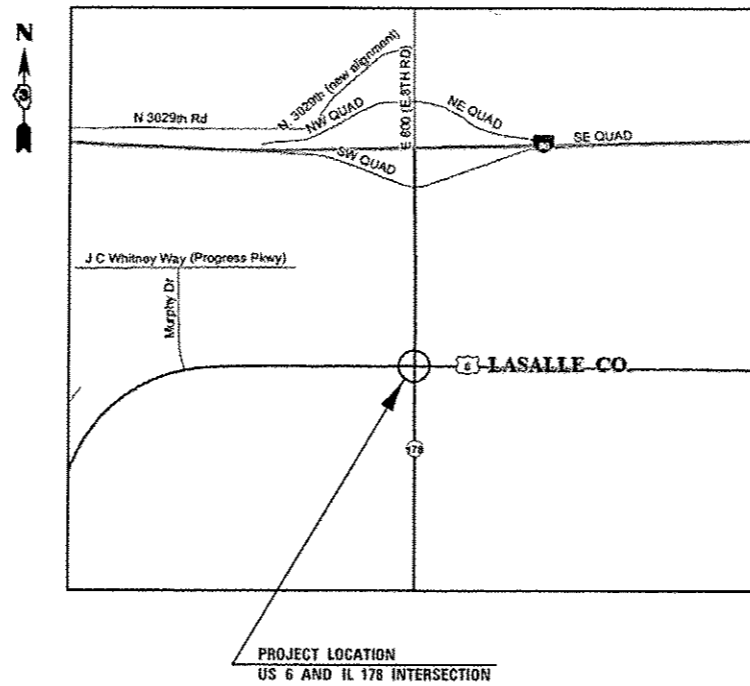
WEST LEG - OTHER ARTERIAL
2015 ADT = 5,750
P.V. = 78.7% S.U. = 6.5% M.U. = 14.8%



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: JOE KANNEL, P.E.
UNIT CHIEF: MARC BUDZYNSKI
DISTRICT 3 NO. (815) 434-6131
CONTRACT NO. 66H45



GROSS LENGTH & NET LENGTH = POINT LOCATION

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED 4-20 2017
[Signature]
REGIONAL ENGINEER

May 12 2017
Maurice M. Addis P.E.
ENGINEER OF DESIGN AND ENVIRONMENT

May 12 2017
[Signature]
DIRECTOR OF PROGRAM DEVELOPMENT

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OF THE STATE OF ILLINOIS

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CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTR. CODE
				100% STATE
				TRAFFIC SIGNALS 0021 ✓ RURAL ✓
67100100	MOBILIZATION	LSUM	1.0	1.0
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	LSUM	1.0	1.0
* 72000100	SIGN PANEL - TYPE 1	50 FT	45	45
* 72400310	REMOVE SIGN PANEL - TYPE 1	50 FT	45	45
80500200	SERVICE INSTALLATION, TYPE B	EACH	1	1
86200300	UNINTERRUPTABLE POWER SUPPLY, EXTENDED	EACH	1	1
87200400	SPAN WIRE	FOOT	350	350
87200500	TETHER WIRE	FOOT	350	350
87302245	ELECTRIC CABLE AERIAL SUSPENDED, SIGNAL, NO. 14 5C	FOOT	665	665
87302255	ELECTRIC CABLE AERIAL SUSPENDED, SIGNAL, NO. 14 7C	FOOT	680	680
87302705	ELECTRIC CABLE AERIAL SUSPENDED, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	1345	1345
89502400	REMOVE EXISTING FLASHING BEACON INSTALLATION COMPLETE	EACH	1	1
X0326885	VIDEO DETECTION SYSTEM	EACH	1	1
X0327004	TEMPORARY WOOD POLE, 60 FT., CLASS 4	EACH	4	4

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CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTR. CODE	
				TRAFFIC SIGNALS	
				0021	RURAL
X1400215	REMOTE CONTROLLED VIDEO SYSTEM	EACH	1	1	
X7015005	CHANGEABLE MESSAGE SIGN	CAL DA	200	200	
X8570226	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL	EACH	1	1	
X8800025	SIGNAL HEAD .LED, 1-FACE, 3-SECTION, SPAN WIRE MOUNTED	EACH	6	6	
X8800041	SIGNAL HEAD .LED, 1-FACE 4-SECTION, SPAN WIRE MOUNTED	EACH	6	6	
X8820010	TRAFFIC SIGNAL BACKPLATE, SPECIAL	EACH	12	12	

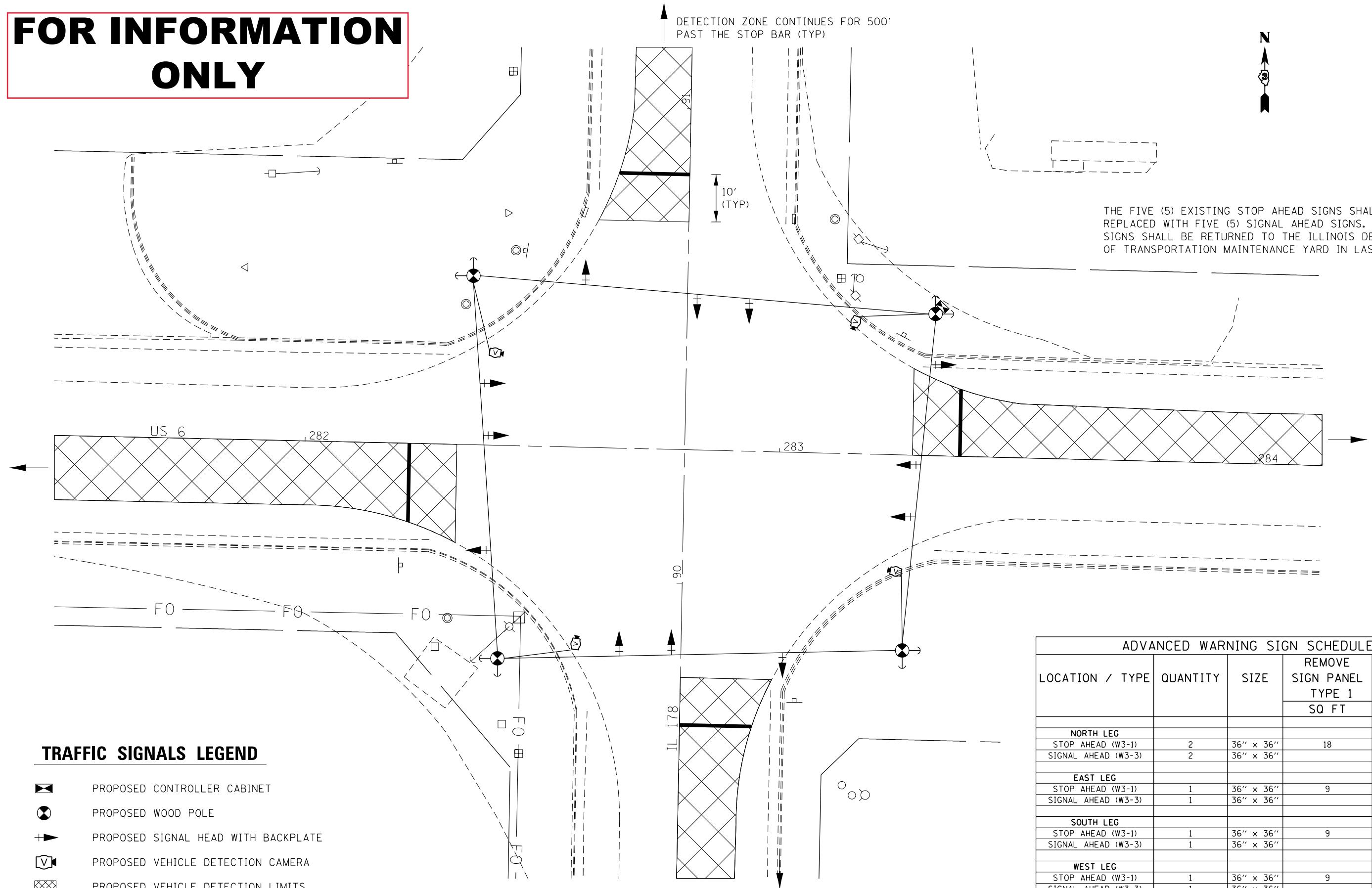
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DETECTION ZONE CONTINUES FOR 500' PAST THE STOP BAR (TYP)



THE FIVE (5) EXISTING STOP AHEAD SIGNS SHALL BE REPLACED WITH FIVE (5) SIGNAL AHEAD SIGNS. THE REMOVED SIGNS SHALL BE RETURNED TO THE ILLINOIS DEPARTMENT OF TRANSPORTATION MAINTENANCE YARD IN LASALLE.



TRAFFIC SIGNALS LEGEND

-  PROPOSED CONTROLLER CABINET
-  PROPOSED WOOD POLE
-  PROPOSED SIGNAL HEAD WITH BACKPLATE
-  PROPOSED VEHICLE DETECTION CAMERA
-  PROPOSED VEHICLE DETECTION LIMITS

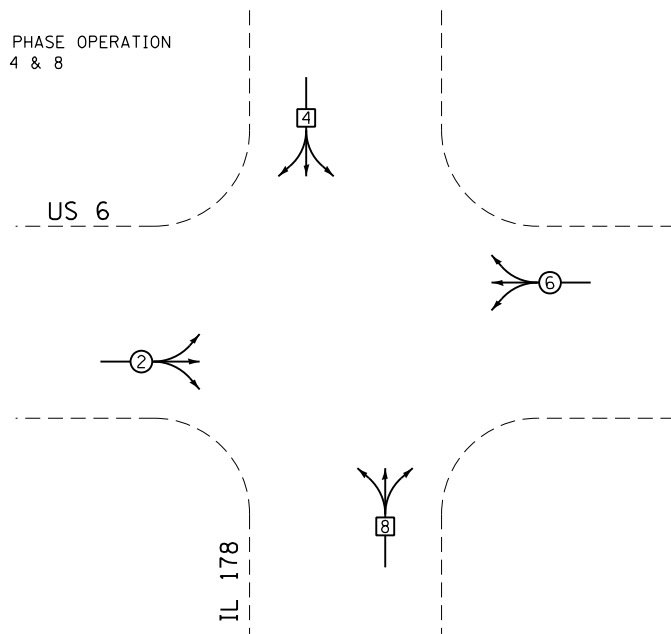
ADVANCED WARNING SIGN SCHEDULE				
LOCATION / TYPE	QUANTITY	SIZE	REMOVE SIGN PANEL	SIGN PANEL
			TYPE 1	TYPE 1
			SQ FT	SQ FT
NORTH LEG				
STOP AHEAD (W3-1)	2	36" x 36"	18	
SIGNAL AHEAD (W3-3)	2	36" x 36"		18
EAST LEG				
STOP AHEAD (W3-1)	1	36" x 36"	9	
SIGNAL AHEAD (W3-3)	1	36" x 36"		9
SOUTH LEG				
STOP AHEAD (W3-1)	1	36" x 36"	9	
SIGNAL AHEAD (W3-3)	1	36" x 36"		9
WEST LEG				
STOP AHEAD (W3-1)	1	36" x 36"	9	
SIGNAL AHEAD (W3-3)	1	36" x 36"		9
TOTAL			45	45

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PROPOSED CONTROLLER SEQUENCE

NAME OF INTERSECTION: US 6 AND IL 178
 CONTROLLER SPECIFIED: FULL-ACTUATED CONTROLLER, STANDARD SEQUENCE, 8 PHASE, IN TYPE IV CABINET MOUNTED ON POLE REFERRING TO STANDARD 857001, THE VEHICULAR PHASES USED ARE DESIGNATED.

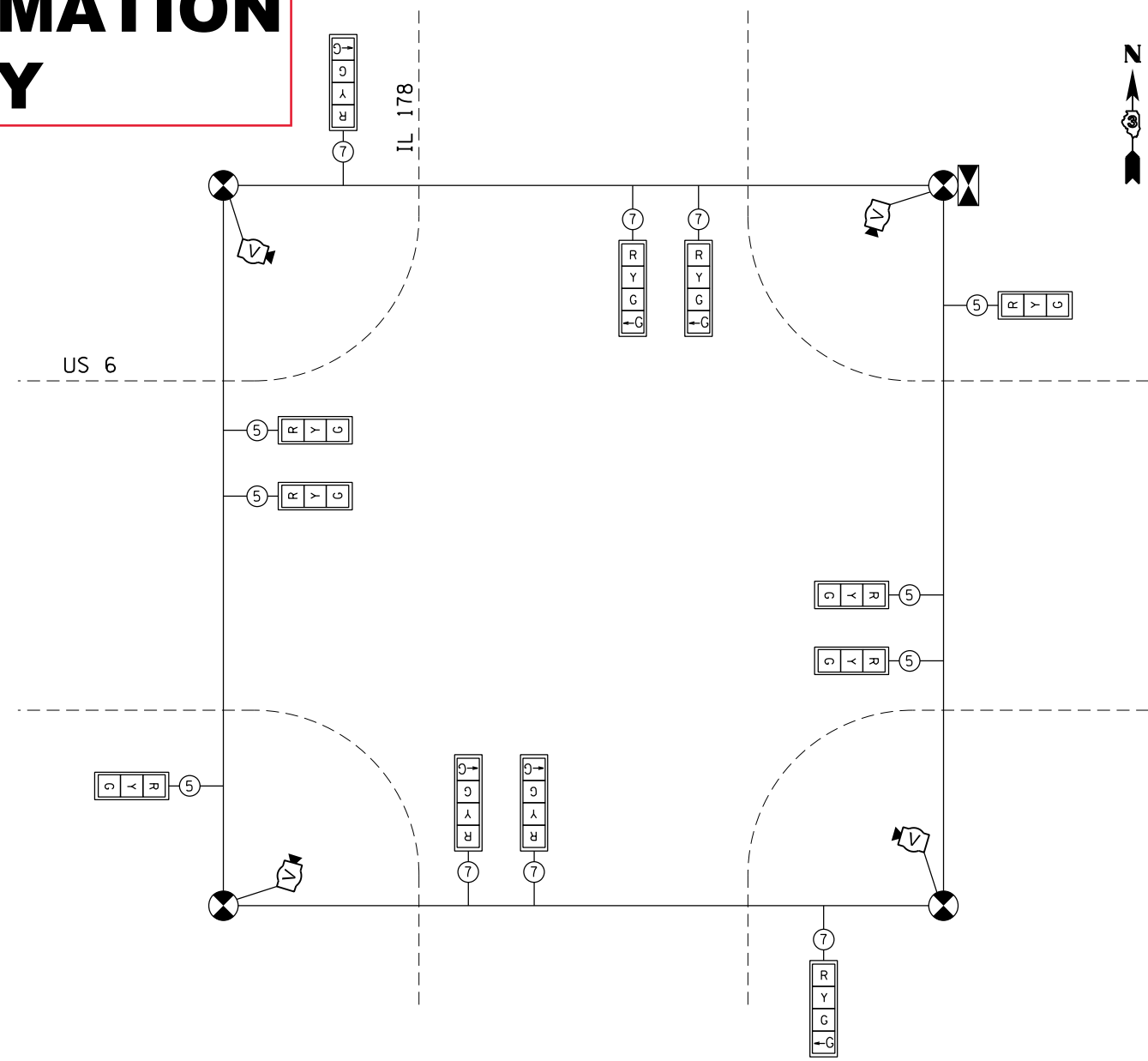
NOTE: SPLIT PHASE OPERATION FOR PHASES 4 & 8



PROPOSED PLAN
NOT TO SCALE

LEGEND

- ← ○ → VEHICULAR MOVEMENT
- * NUMBER REFERS TO ASSOCIATED PHASE



PROPOSED CABLE PLAN
NOT TO SCALE

US 6 AND IL 178 ELECTRICAL LOAD CHART				
LOCATION	INDICATION/ITEM	NUMBER	WATTAGE EACH	BURN TIME (%)
US 6	RED	6	10	70
	YELLOW	6	17	5
	GREEN	6	11	25
IL 178	RED	6	10	25
	YELLOW	6	17	5
	GREEN	6	11	65
	GREEN ARROW	6	5	5
TRAFFIC SIGNAL CABINET	CONTROLLER	1	6	100
	UPS	1	50	100

TRAFFIC SIGNALS LEGEND

○	DENOTES NUMBER OF PROPOSED CONDUCTORS
⊠	PROPOSED CONTROLLER AND CABINET
⊗	PROPOSED WOOD POLE, CLASS 4
Ⓜ	VIDEO DETECTION SYSTEM
□	SIGNAL SECTION 12"
←G	LEFT TURN GREEN
Ⓜ	PROPOSED TRAFFIC SIGNAL BACKPLATE

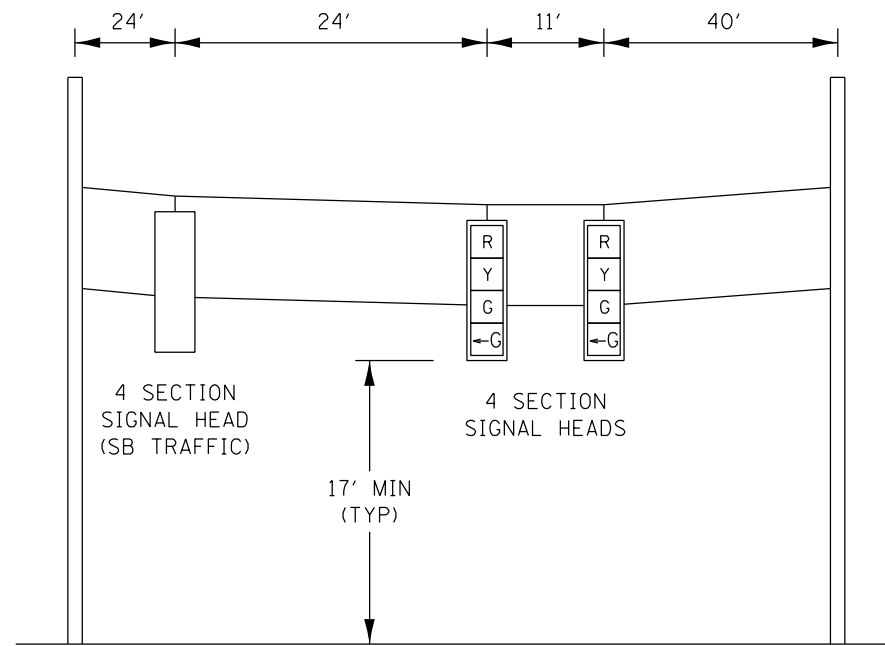
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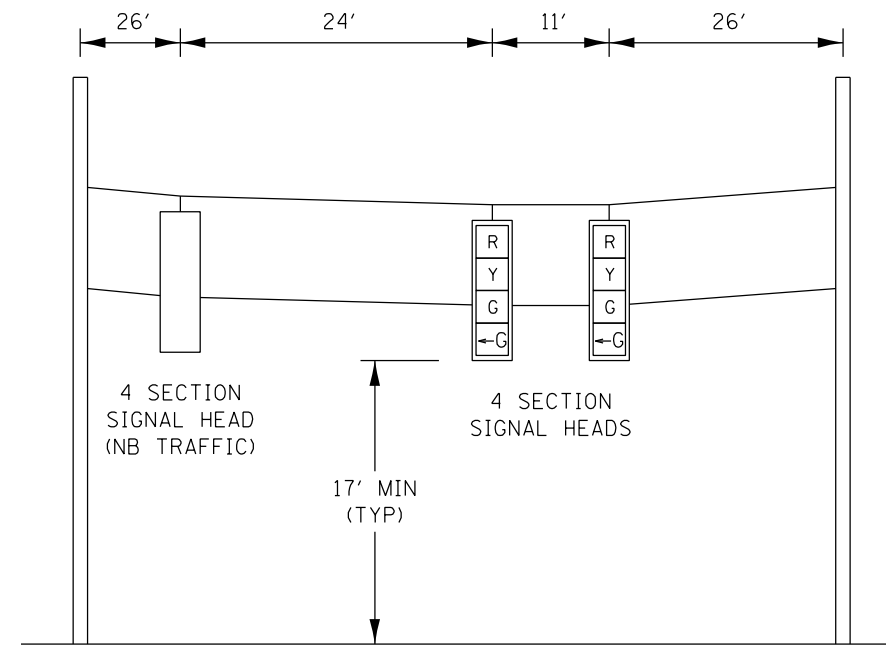
CABLE PLAN AND PHASE DESIGNATION DIAGRAM

SCALE: SHEET OF SHEETS STA. TO STA.

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ILLINOIS FED. AID PROJECT				

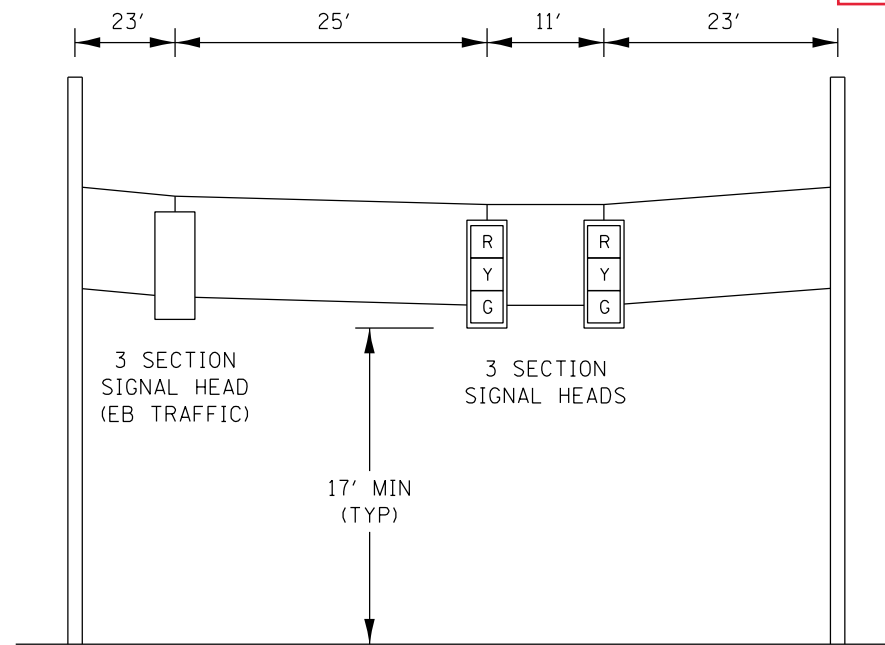


NORTHBOUND
NOT TO SCALE

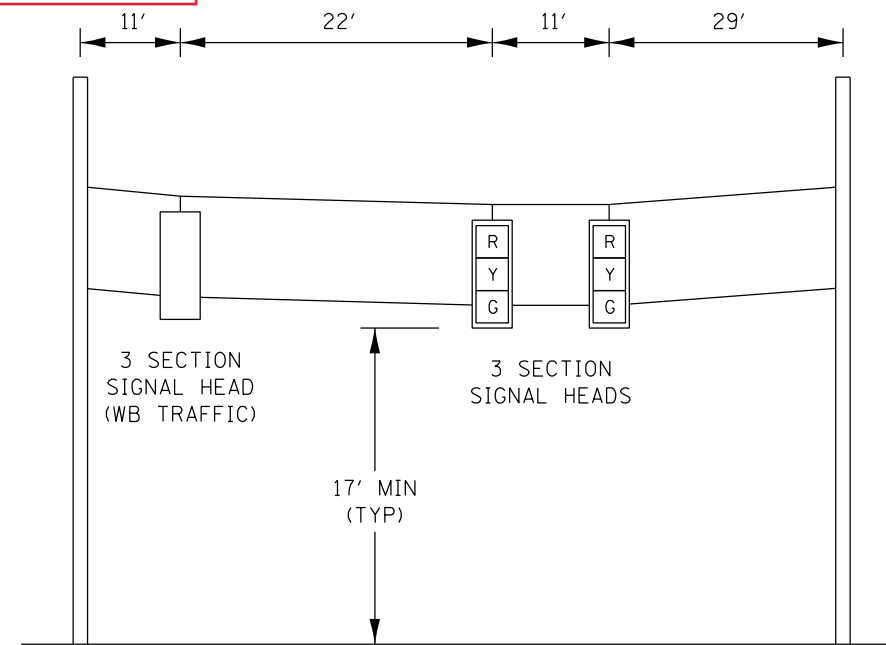


SOUTHBOUND
NOT TO SCALE

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WESTBOUND
NOT TO SCALE



EASTBOUND
NOT TO SCALE

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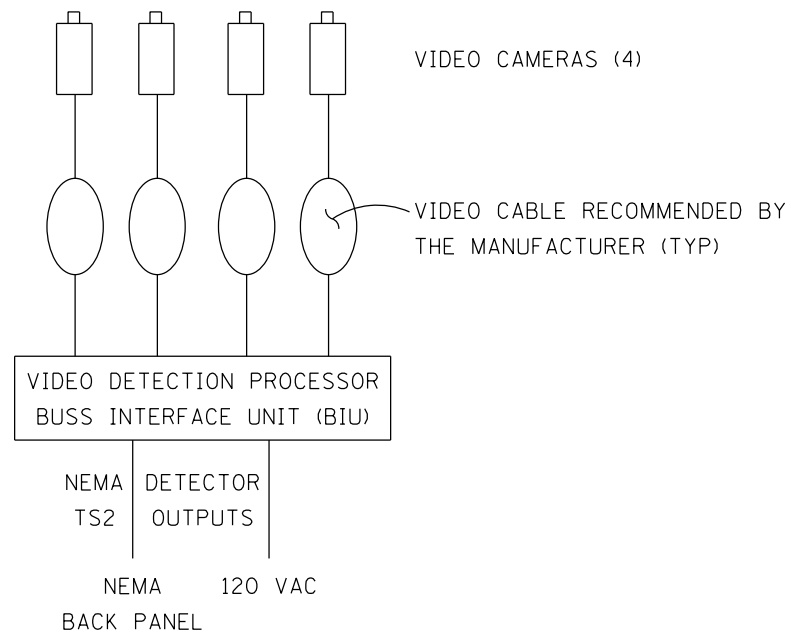
**STATE OF ILLINOIS
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SPAN WIRE LOADING DIAGRAMS

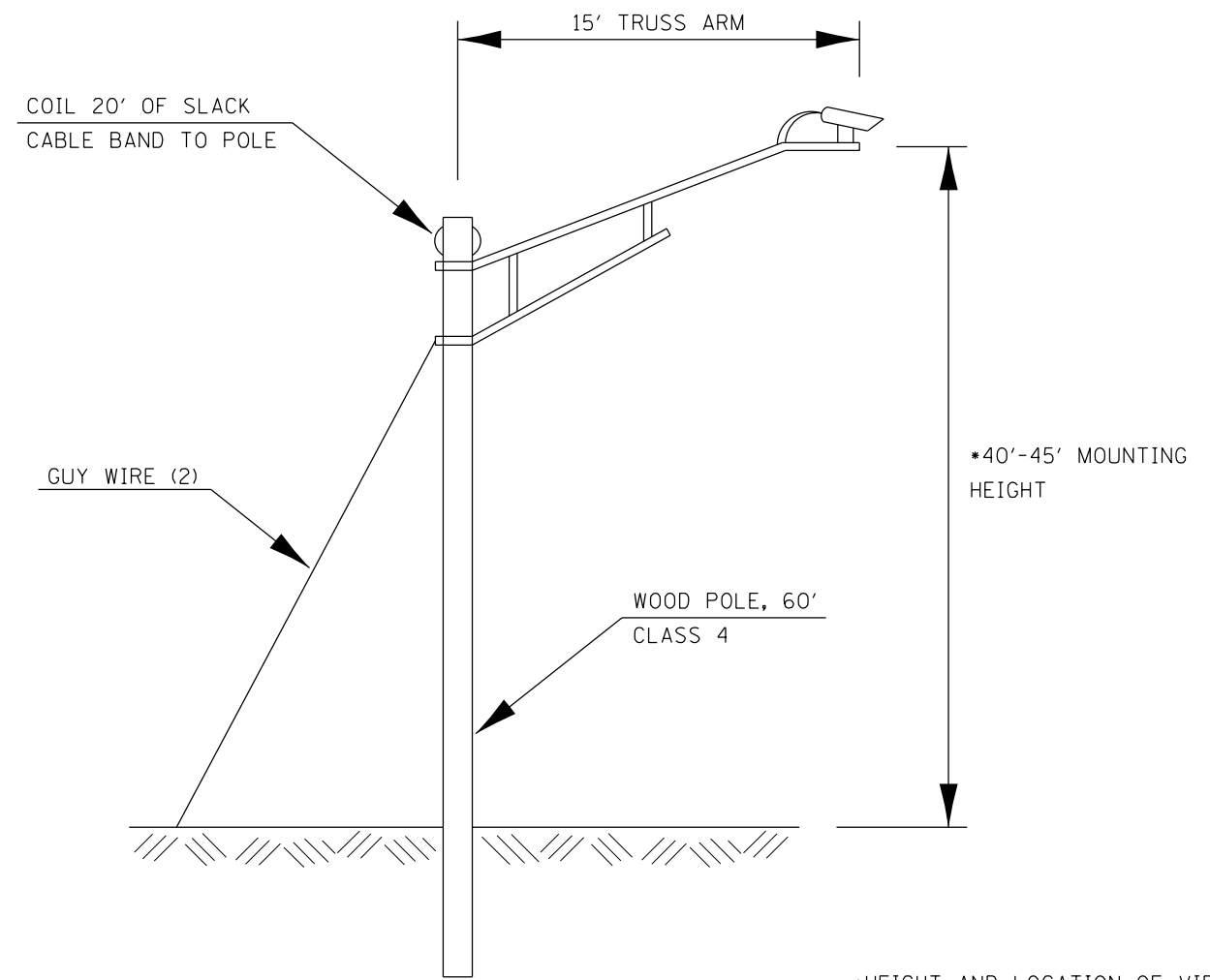
SCALE: SHEET OF SHEETS STA. TO STA.

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ILLINOIS FED. AID PROJECT				

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VIDEO VEHICLE DETECTION SYSTEM
COMPONENT LAYOUT



*HEIGHT AND LOCATION OF VIDEO CAMERA SHALL BE PLACED ACCORDING TO MANUFACTURER RECOMMENDATIONS

VIDEO DETECTION CAMERA
MOUNTING DETAIL (NTS)

FILE NAME =	USER NAME = budzynskim	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DETAILS				F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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Default	PLOT SCALE = 100.0000' / in.	DATE -	REVISED -		CONTRACT NO. 66H45				ILLINOIS FED. AID PROJECT				
	PLOT DATE = 4/19/2017				SCALE:	SHEET	OF	SHEETS	STA.	TO	STA.		