STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

INDEX OF SHEETS

- COVER SHEET
- GENERAL NOTES
- SUMMARY OF QUANTITIES
- TRAFFIC SIGNAL INSTALLATION PLAN
- CABLE PLAN AND PHASE DESIGNATION DIAGRAM
- SPAN WIRE LOADING DIAGRAMS

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FOR INFORMATION ONLY

LIST OF ILLINOIS DOT HIGHWAY STANDARDS

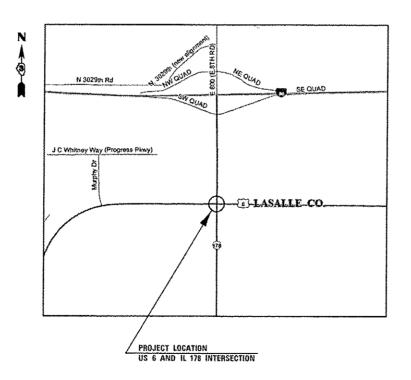
000001-06	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001006	DECIMAL OF AN INCH AND OF A FOOT
701001-02	OFF-ROAD OPERATIONS 2L, 2W, MORE THAN 15' (4.5 m) AWAY
701008-05	OFF-ROAD OPERATIONS 2L, 2W, 15' (4.5 m) TO 24" (600 mm) FROM
	PAVEMENT EDGE
701201-04	LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS ≥ 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

PROPOSED HIGHWAY PLANS

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

TRAFFIC SIGNAL INSTALLATION LASALLE COUNTY

C-93-088-17



GROSS LENGTH & NET LENGTH = POINT LOCATION

D-93-050-17

(31) TS



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%

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
SUBMITTED 4-20 2017
REGIONAL ENGINEER
MA
1100 12 20 17
110 J 100 L
MOLLADOM IN HARDE LEVEL
ENGINEER OF DESIGN AND ENVIRONMENT
May be 20 M M
Townsell Jan 2
DIRECTOR OF PROGRAM DEVELOPMENT

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

1-800-892-0123 OR 811

ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION

PROJECT ENGINEER: JOE KANNEL, P.E.

UNIT CHIEF: MARC BUDZYNSKI

DISTRICT 3 NO. (815) 434-6131

TRAFFIC SIGNAL GENERAL NOTES

THE TRAFFIC SIGNAL SECTION AT THE ILLINOIS DEPARTMENT OF TRANSPORTATION, DISTRICT 3, SHALL BE NOTIFIED AT 815-434-8506 AT LEAST 72 HOURS PRIOR TO TURNING ON ANY FLASHER OR CONTROLLER UNITS.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING UTILITY PROPERTY DURING CONSTRUCTION OPERATIONS AS OUTLINED IN ARTICLE 107.31 OF THE STANDARD SPECIFICATIONS. A MINIMUM OF 48 HOURS ADVANCE NOTICE IS REQUIRED FOR NON-EMERGENCY WORK. THE JULIE NUMBER IS 800-892-0123. THE MEMBERS OF JULIE KNOWN TO BE WITHIN THE LIMITS OF THE IMPROVEMENT ARE;

- -COMCAST -ILLINOIS FIBER
- -AMEREN IP
- -AT&T -VILLAGE OF NORTH UTICA -CITY OF PERU

ALL TRAFFIC CONTROL AND OTHER ADVISORY SIGNS NEEDED FOR CONSTRUCTION ARE TO BE FURNISHED BY THE CONTRACTOR IN ACCORDANCE WITH SECTION 701 OF THE STANDARD SPECIFICATIONS.

ALL TRAFFIC SIGNAL HEADS SHALL BE 12-INCH POLYCARBONATE.

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 TRAFFIC SIGNAL PAY ITEMS.

THE CONTRACTOR SHALL ARRANGE FOR A FACTORY OR SUPPLIER REPRESENTATIVE TO BE PRESENT AT THE INTERSECTION WHEN THE SIGNAL IS TURNED ON, COST TO BE INCLUDED WITH THE TRAFFIC SIGNAL CONTROLLER PAY ITEM.

THE ELECTRICAL CONDUCTORS FOR ALL TRAFFIC SIGNAL HEADS SHALL BE SOLID, SOFT COPPER.

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

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 TRAFFIC SIGNAL WIRING SHALL EXTEND FROM CONTROLLER TO SIGNAL. SPLICES IN JUNCTION BOXES WILL NOT BE ALLOWED.

THE CONTROLLER CABINET SHALL BE PLACED SO THAT A TECHNICIAN MAY SEE THE INTERSECTION OVER THE TOP OF THE CABINET WHILE WATCHING THE COMPONENTS IN THE CABINET.

THE PROPOSED TRAFFIC SIGNAL CONTROLLER CABINET SHALL BE FURNISHED WITH A MANUAL CONTROL SWITCH AND MANUAL CONTROL CHORD WITHIN THE POLICE DOOR COMPARTMENT. THIS WORK SHALL BE INCLUDED IN THE CONTROLLER CABINET PAY ITEM.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ELECTRICAL SERVICE FOR THE TRAFFIC SIGNALS. THE CONTRACTOR SHALL CONTACT THE UTILITY COMPANY PRIOR TO BEGINNING WORK TO OBTAIN THE UTILITY COMPANY REQUIREMENTS FOR THE SERVICE INSTALLATION.

ALL VEHICLE AND PEDESTRIAN SIGNAL HEADS SHALL HAVE POLYCARBONATE BLACK HOUSING AND BLACK BRACKETS.

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

THE CONTRACTOR SHALL PROVIDE 3 FEET OF SLACK CABLE IN THE CONTROLLER AND ON THE WOOD POLES. THE SLACK IS IN ADDITION TO THE VERTICAL LENGTH OF CABLE DEFINED IN THE STANDARD SPECIFICATIONS AND SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE PER FOOT FOR ELECTRIC CABLE OF THE TYPE SPECIFIED.

TEMPORARY WOOD POLES SHALL BE LOCATED A MINIMUM OF 6' FROM THE FACE OF CURB OR A MINIMUM 18' FROM THE EDGE OF PAVEMENT WHERE THERE IS NO CURB, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

ALL TEMPORARY WOOD POLES SHALL BE INSTALLED SO THAT A MINIMUM OF 30' OF POLE IS ABOVE THE EXISTING PAVEMENT ELEVATION ADJACENT TO THE POLE. A SUFFICIENT LENGTH OF POLE SHALL BE BURIED AND BACK GUYED TO ALLOW THE INSTALLATION TO WITHSTAND A 70 M.P.H. SUSTAINED WIND LOADING.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR CHECKING THE WOOD POLE LOCATIONS BEFORE ORDERING TO DETERMINE IF LONGER POLES ARE

ALL EXCAVATED MATERIAL, WHICH INCLUDES DIGGING OR GRADING OF ANY SOIL OR FILL MATERIAL, WITH THE EXCEPTION OF AGGREGATE FILLS, MUST BE INCORPORATED WITHIN THE IDOT RIGHT OF WAY DUE TO ENVIRONMENTAL DOCUMENTATION REQUIREMENTS

COMMITMENTS:

FOR INFORMATION ONLY

STATE OF ILLINOIS

___ DISTRICT THREE

DEPARTMENT OF TRANSPORTATION

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION DISTRICT THREE AS BUILT INFORMATION

	SUPERVISING CONSTRUCTION FIELD ENGINEER	PREPARED BY: DISTRICT STUDIES & PLANS ENGINEER
START & END DATES		DATE: 4-20-17
OF CONSTRUCTION:		EXAMINED BY: DISTRICT CONSTRUCTION ENGINEER
INSPECTORS:		DISTRICT MATERIALS ENGINEER
		DISTRICT OPERATIONS ENGINEER

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FOR INFORMATION ONLY

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				10010 -17/10
·				TRAFFIC SIGNALS
CODE			TOTAL	0021 🗸
NO.	ITEM	UNIT	QUANTITY	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	SO FT	45	45
80500200	SERVICE INSTALLATION, TYPE B	EACH	l	1
86200300	UNINTERRUPTABLE POWER SUPPLY, EXTENDED	EACH	1	l
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 10	FOOT	1345	1345
89502400	REMOVE EXISTING FLASHING BEACON INSTALLATION COMPLETE	EACH	1	l
(0326885	VIDEO DETECTION SYSTEM	EACH	1	1
X0327004	TEMPORARY WOOD POLE. 60 FT CLASS 4	EACH	4	4

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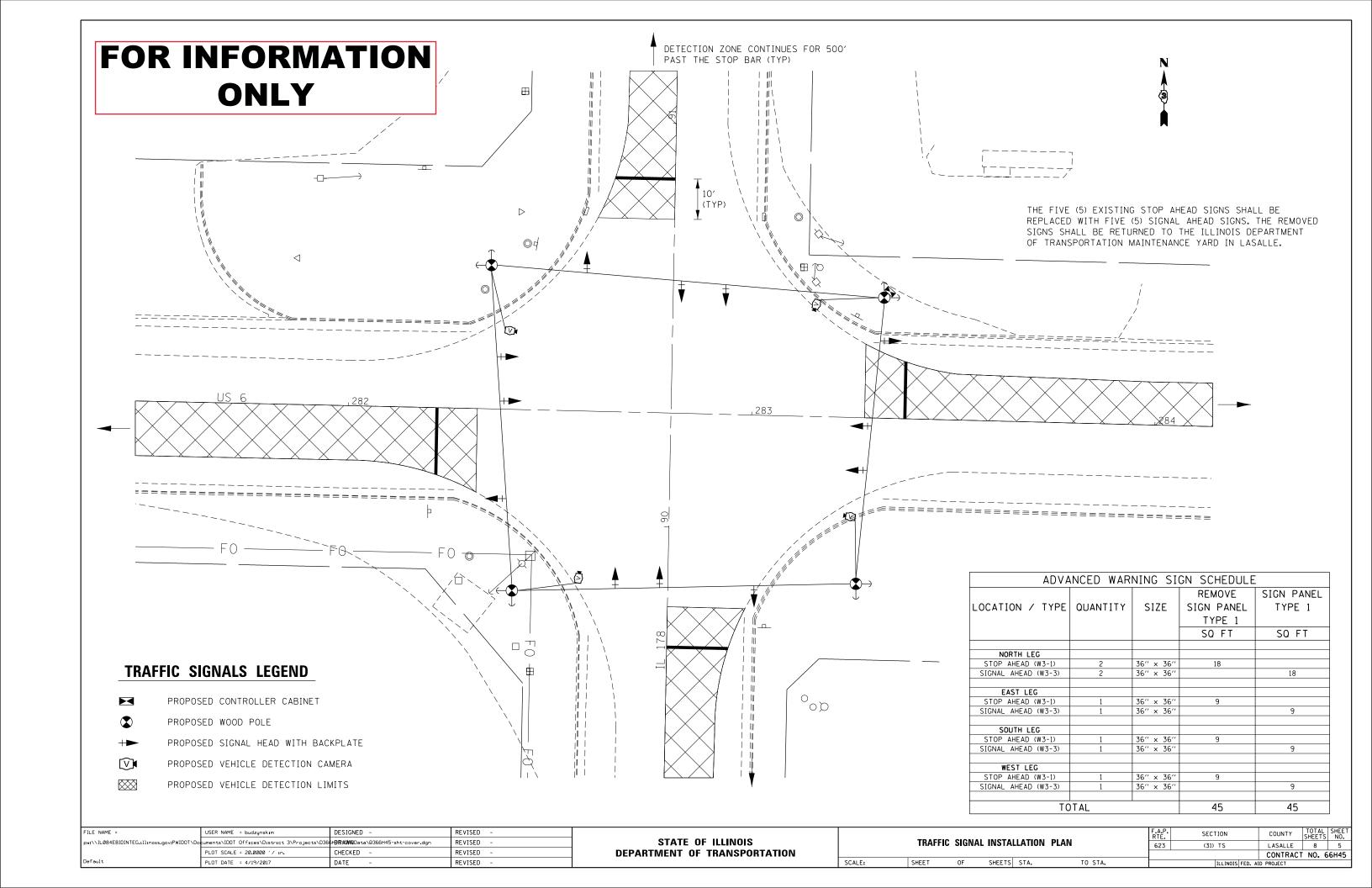
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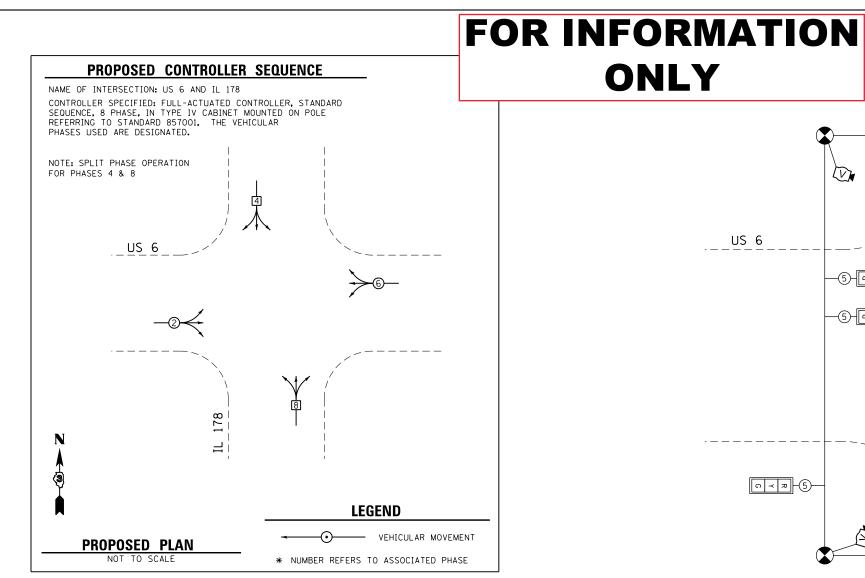
TRAFFIC SIGNALS CODE TOTAL 0021 NO. ITEM UNIT QUANTITY RURAL X1400215 REMOTE CONTROLLED VIDEO SYSTEM EACH X7015005 CHANGEABLE MESSAGE SIGN CAL DA X8570226 FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL 1 X8800025 SIGNAL HEAD . LED. 1-FACE. 3-SECTION. SPAN WIRE MOUNTED EACH 6 6 X8800041 SIGNAL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

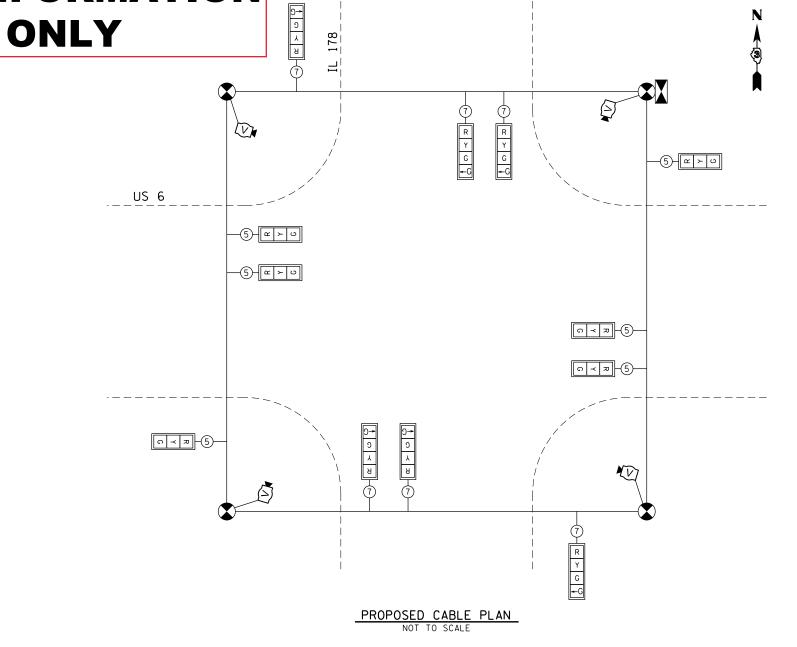
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US 6 AND IL 178 ELECTRICAL LOAD CHART									
	INDICATION/		WATTAGE	BURN					
LOCATION	ITEM	NUMBER	EACH	TIME (%)					
US 6	RED	6	10	70					
	YELLOW	6	17	5					
	GREEN	6	11	25					
IL 178	RED	6	10	25					
	YELLOW	6	17	5					
	GREEN	6	11	65					
	GREEN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

DENOTES NUMBER OF PROPOSED CONDUCTORS PROPOSED CONTROLLER AND CABINET PROPOSED WOOD POLE, CLASS 4 VIDEO DETECTION SYSTEM SIGNAL SECTION 12"

TRAFFIC SIGNALS LEGEND

--G LEFT TURN GREEN

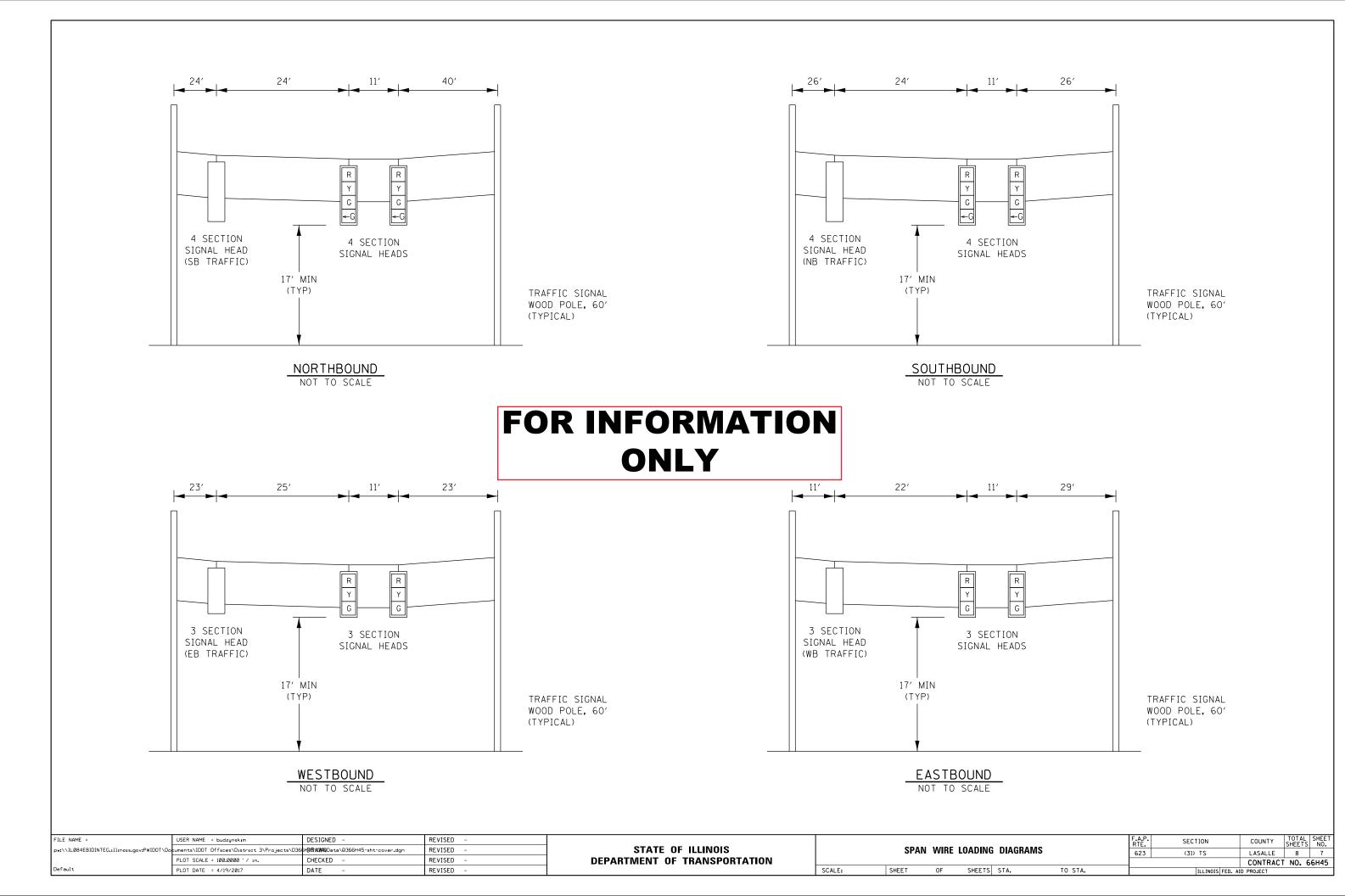
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PROPOSED TRAFFIC SIGNAL BACKPLATE

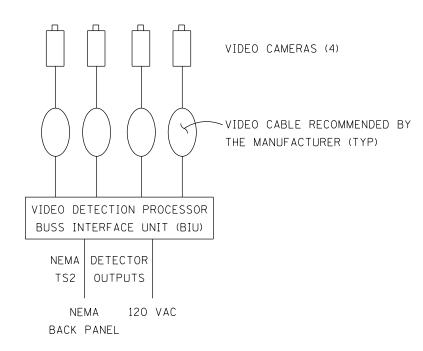
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DEPARTMENT OF	TRANSPORTATION

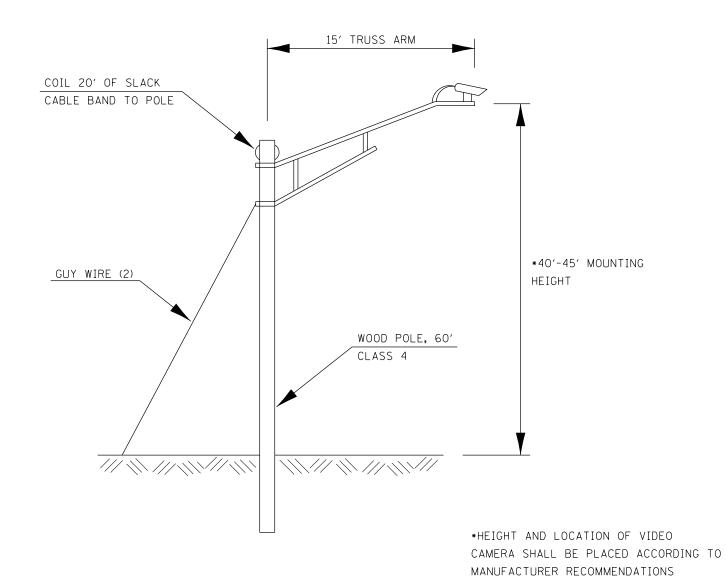
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							CONTRACT	NO. 6	6H45		
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FOR INFORMATION ONLY



VIDEO VEHICLE DETECTION SYSTEM COMPONENT LAYOUT



VIDEO DETECTION CAMERA
MOUNTING DETAIL (NTS)

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