STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

PROPOSED HIGHWAY PLANS

FAP ROUTE 623 (US 6) SECTION 32 (NRM) TS-2

TRAFFIC SIGNAL IMPROVEMENTS

LASALLE COUNTY C-93-077-15



PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

LOCATION OF SECTION INDICATED THUS: -

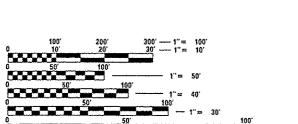
US 6 - URBAN PRINCIPAL ARTERIAL 2013 ADT = 7,900, P.V. = 93.0% S.U. = 2.9% M.U. = 4.1%

BUCKLIN ST - URBAN MAJOR COLLECTOR 2011 ADT = 3,000, P.V. = 88.3% S.U. = 2.1% M.U. = 9.6%

> STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS

LASALLE 7 1 ILLINOIS CONTRACT NO. 66E63

D-93-041-15



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.

JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION 1-800-892-0123 OR 811

PROJECT ENGINEER: SCOTT FERGUSON, P.E. **UNIT CHIEF: MARC BUDZYNSKI** DISTRICT 3 NO. (815) 434-6131 CONTRACT NO. 66E63

INDEX OF SHEETS

COVER SHEET GENERAL NOTES SUMMARY OF QUANTITIES TRAFFIC SIGNAL PLAN
TRAFFIC SIGNAL CABLE PLAN
TRAFFIC SIGNAL DETAILS

STANDARDS

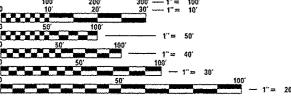
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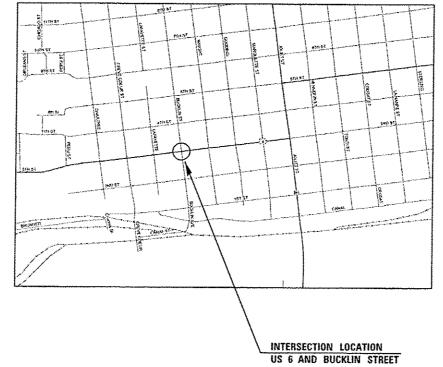
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000001-06	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001006	DECIMAL OF AN INCH AND OF A FOOT
701001-02	OFF-ROAD OPERATIONS 2L, 2W, MORE THAN 15' (4.5 m) AWAY
701006-05	OFF-ROAD OPERATIONS 2L, 2W, 15' (4.5 m) TO 24" (600 mm) FROM
	PAVEMENT EDGE
701701-09	URBAN LANE CLOSURE, MULTILANE INTERSECTION
701801-05	SIDEWALK, CORNER OR CROSSWALK CLOSURE
701901-04	TRAFFIC CONTROL DEVICES
857001-01	STANDARD PHASE DESIGNATION DIAGRAMS AND PHASE SEQUENCES
873001-02	TRAFFIC SIGNAL GROUNDING & BONDING
880006-01	TRAFFIC SIGNAL MOUNTING DETAILS
886001-01	DETECTOR LOOP INSTALLATIONS

TYPICAL LAYOUT FOR DETECTION LOOPS



DIVISION OF HIGHWAYS



GROSS LENGTH = POINT LOCATION

GENERAL NOTES

COMMITMENTS:

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.

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.

A 1/4" DIAMETER CONTINUOUS RODENT RESISTANT NYLON ROPE SHALL BE FURNISHED AND LEFT IN PLACE IN ALL CONDUITS BETWEEN HANDHOLES AND FOUNDATIONS OR CONTROLLER. THIS COST SHALL BE INCLUDED WITH THE COST OF CONDUIT PAY ITEM.

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.

ALL CONDUIT IN TRENCH SHALL BE P.V.C. ALL PUSHED CONDUIT MAY BE P.V.C. OR GALVANIZED STEEL. CONDUIT ATTACHED TO STRUCTURES SHALL BE GALVANIZED STEEL.

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

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 CONTRACTOR SHALL PROVIDE A SELF-ADHERED PHASE DIAGRAM ON THE INSIDE OF THE CONTROLLER CABINET DOOR.

BACKPLATES SHALL BE POLYCARBONATE, LOUVERED FORMED BACKPLATES.

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

ALL GROUNDING MATERIALS FOR CONCRETE FOUNDATIONS SHALL REFER TO SECTION 807 OF THE STANDARD SPECIFICATIONS.

ALL AREAS DISTURBED BY THE CONTRACTOR SHALL BE RESTORED WITH SEED OR SOD TO THE SATISFACTION OF THE ENGINEER, SEEDING OR SODDING SHALL NOT BE PERMITTED AT ANY TIME WHEN THE GROUND IS FROZEN, WET, OR IN AN UNTILLABLE CONDITION.

THE SURGE PROTECTOR IN THE CONTROLLER CABINET SHALL HAVE AN INDICATOR LIGHT.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DISTRICT THREE

PREPARED BY:

STRICT STUDIES & PLANS ENGINEER

DATE:

March 27, 2015

EXAMINED BY:

DISTRICT CONSTRUCTION ENGINEER

Wayne Phillips p.B.
DISTRICT MATERIALS ENGINEER

DISTRICT OPERATIONS ENGINEER

 FILE NAME :
 USEK NAME :
 budzynskim
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 FLOT SCALE : 180,8008 1/ in.
 CHECKED REVISED

 FLOT DATE : 3/27/2015
 DATE REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL NOTES

SHEETS STA.

OF

SCALE:

SHEET

RTE. SECTION 623 32 (NRM) T5-2

COUNTY SHEETS NO.
5-2 LASALLE 7 2
CONTRACT NO. 66E63

CONSTR. CODE

		······		100 11 37476
CODE				TRAFFIC SIGNA
NO.	ITEM		TOTAL	0021
140.	1 + C.Wi	UNIT	OUANTITY	URBAN
12400100	PORTLAND CEMENT CONCRETE SIDEWALK 4 INCH	SO FT	115	115
14000600	SIDEWALK REMOVAL	SQ FT	115	115
7100100	MOBILIZATION	L SUM	***	1
0102635	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	L SUM	1	l
0102640	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	L SUM	***	Į.
0103815	TRAFFIC CONTROL SURVEILLANCE	CAL DA	5	5
2000100	SIGN PANEL - TYPE 1	SQ FT	22	22
2000200	SIGN PANEL - TYPE 2	SQ FT	20	20
1028340	UNDERGROUND CONDUIT, PVC. 1 1/2" DIA.	FOOT	72	72
5000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1	1
7301255	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	680	680
7301305	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	230	230
7301900	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	340	340
7900200	DRILL EXISTING HANDHOLE	EACH	8	8
14		<u> </u>	cialty is	tems

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

	5	SUMMAR	Y OF QUANTITIES	
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SECTION COUNTY TOTAL SHEETS NO.

3 32 INRMO TS-2 LASALLE 7 3

CONTRACT NO. 66E63

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_	CONS	TR.	CODE	_
	100%	57	ATE	

CODE			TOTAL	TRAFFIC SIGNALS
NO.	ITEM	UNIT	QUANTITY	URBAN

88040150	SIGNAL HEAD. POLYCARBONATE, LED, 1-FACE. 5-SECTION, BRACKET MOUNTED	EACH	2	5
88040160	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED	EACH	2	2
88200410	TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	4	4
88500100	INDUCTIVE LOOP DETECTOR	EACH	5	5
88600100	DETECTOR LOOP, TYPE I	FOOT	1910	1910
89502300	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	680	680
89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1	Į.
X8950114	MODIFY EXISTING CONTROLLER AND CABINET	EACH	***	1

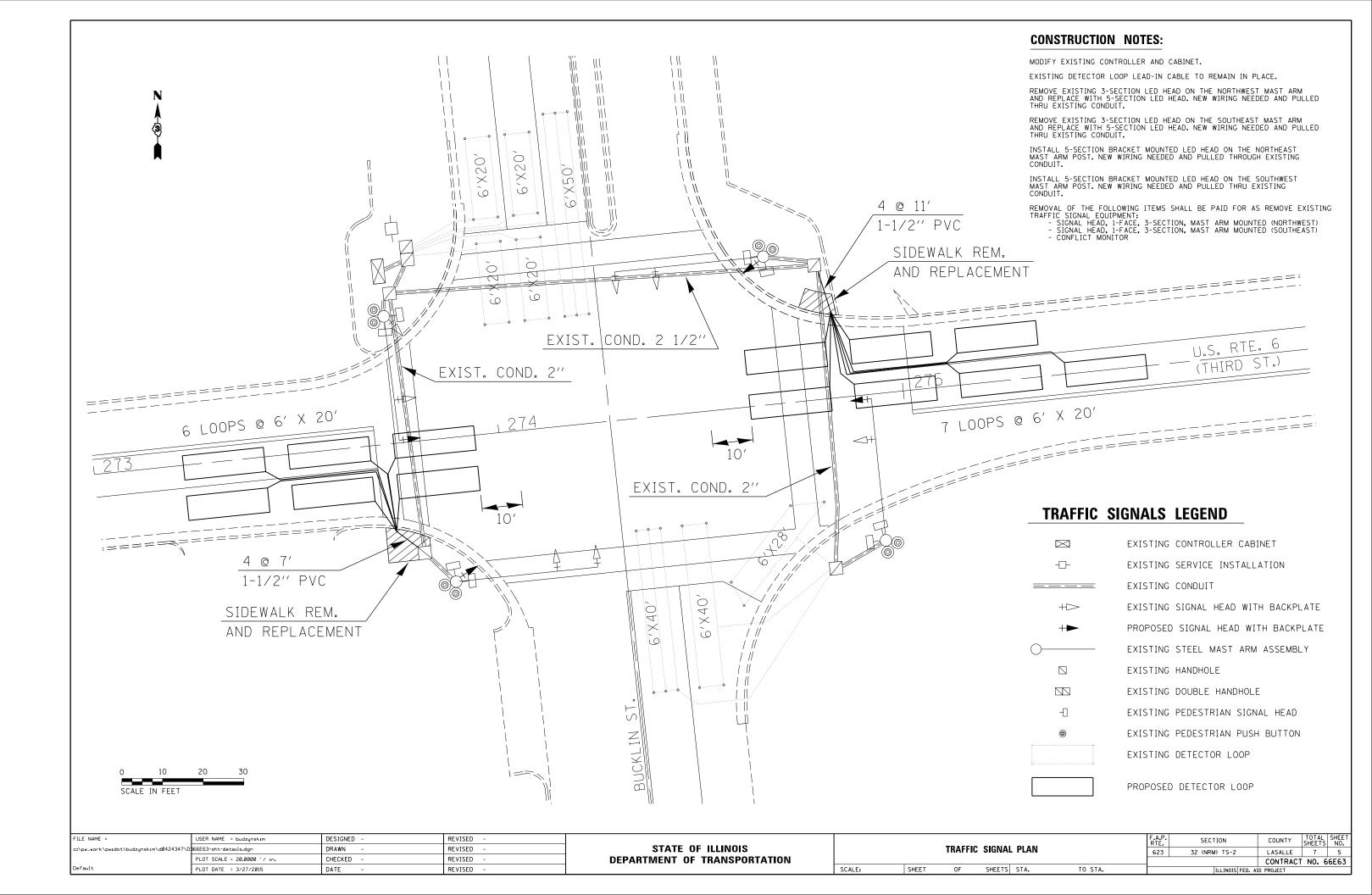
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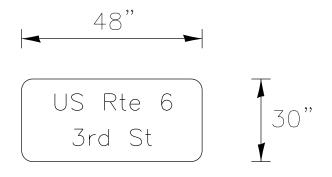
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		1188888	Y OF QUANTITIES		F.A.P. RTE.	SECTION	COUNTY	TOTAL	SHEET NO.
	3	623	32 (NRM) 15-2	LASALLE CONTRAC	7 T NO. 6	4 6E63			
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NAME OF INTERSECTION: U.S. ROUTE 6 (THIRD ST.) & BUCKLIN ST. CONTROLLER SPECIFIED: FULL-ACTUATED CONTROLLER, SPECIAL SEQUENCE, 8 PHASE, IN TYPE IV CABINET ST © © (2)-EN (3)-ZV2_3\ **-**1)-US 6 (THIRD ST) LEGEND (*)→ PEDESTRIAN MOVEMENT NUMBER REFERS TO ASSOCIATED -7- R > 0 \ 1 EXISTING PHASE DESIGNATION DIAGRAM (n < n < n - 7 -[[]] [] [] [5] PROPOSED CONTROLLER SEQUENCE NAME OF INTERSECTION: US 6 AND BUCKLIN STREET CONTROLLER SPECIFIED: FULL-ACTUATED CONTROLLER, STANDARD SEQUENCE II, 8 PHASE, IN TYPE IV CABINET REFERRING TO STANDARD 857001, THE VEHICULAR AND PEDESTRIAN **2** 3, PHASES USED ARE DESIGNATED. (7) (3) (2) US 6 (THIRD ST) TRAFFIC SIGNALS LEGEND (*) DENOTES NUMBER OF EXISTING CONDUCTORS \odot DENOTES NUMBER OF PROPOSED CONDUCTORS PROPOSED CABLE PLAN NOT TO SCALE EXISTING CONTROLLER AND CABINET EXISTING SIGNAL SECTION 12" SIGNAL SECTION 12" **-**-G LEFT TURN GREEN STREE **--**Y LEFT TURN YELLOW INDUCTANCE CHART FOR LOOPS (©) EXISTING PEDESTRIAN PUSH BUTTON BUCKLIN LOOP NUMBER INDUCTANCE FREQUENCY J PIN SYSTEM LABEL OF TURNS (MH) (HERTZ) STATUS EXISTING WALK/DON'T WALK SIGNAL WR THRU 21,430 ON 810 WB LEFT 550 26,007 ON 26,007 ON **LEGEND** EXISTING TRAFFIC SIGNAL EB THRU 801 21,550 ON BACKPLATE EB LEFT ON VEHICULAR MOVEMENT ← — P• PEDESTRIAN MOVEMENT PROPOSED TRAFFIC SIGNAL PROPOSED PLAN BACKPLATE NOT TO SCALE * NUMBER REFERS TO ASSOCIATED PHASE

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	c:\pw_work\pwidot\budzynskim\d0424347\D	66E63-sht-details.dgn	DRAWN -	REVISED -	STATE OF ILLINOIS		TRAFFIC SIGNAL CABLE PLAN			623	32 (NRM) TS-2	LASALLE	7	6		
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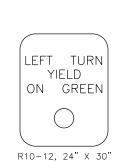


2 SIGNS REQUIRED = 10.0 SQ.FT. EACH NORTHEAST AND SOUTHWEST MAST ARMS 8" UC LETTERS



NORTHWEST AND SOUTHEAST MAST ARMS

8" UC LETTERS

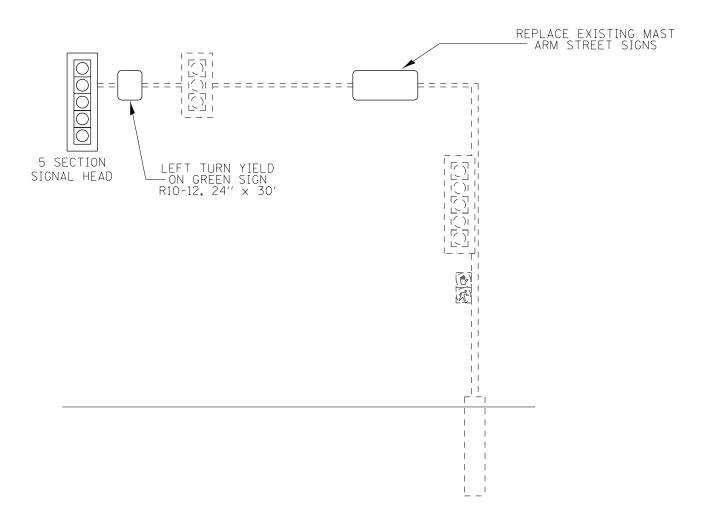


2 SIGNS REQUIRED = 5.0 SQ.FT. EACH NORTHWEST AND SOUTHEAST MAST ARMS

THIS SIGN SHALL BE LOCATED 6 TO 12

INCHES TO THE RIGHT OF EACH 5 SECTION

MAST ARM MOUNTED LEFT TURN SIGNAL



TYPICAL MAST ARM ASSEMBLY

NOT TO SCALE

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		PLOT DATE = 3/27/2015	DATE -	REVISED -		SCALE:	SHEET	OF	SHEETS		TO STA.		ILLINOIS FED. A	ID PROJECT		