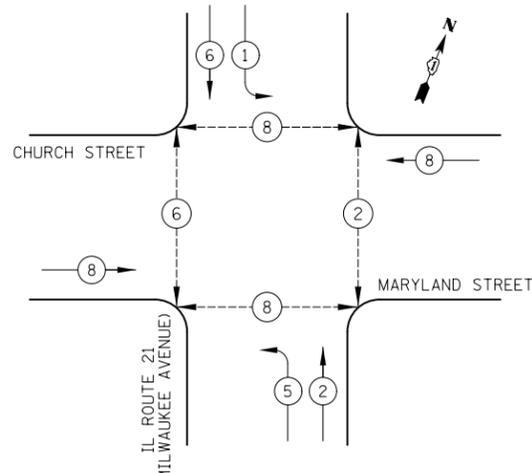
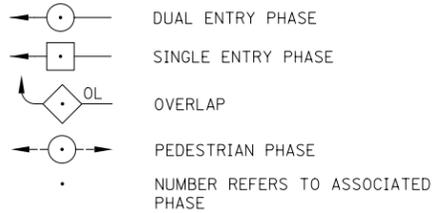


CONTROLLER SEQUENCE



LEGEND

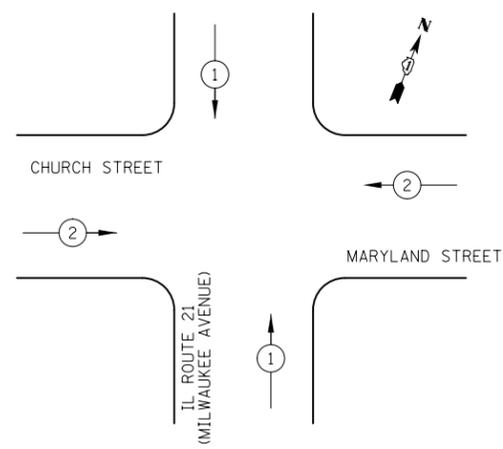


PHASE DESIGNATION DIAGRAM

NOTES

- REPLACEMENT OF THE EXISTING CONFIRMATION BEACONS WITH NEW LED CONFIRMATION BEACONS SHALL BE INCLUDED IN THE PAY ITEM "UNINTERRUPTABLE POWER SUPPLY, SPECIAL".
- THE CONTRACTOR SHALL RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, DETECTOR UNIT TO THE NEW TRAFFIC SIGNAL POST. THE COST OF THIS WORK SHALL BE INCLUDED IN THE PAY ITEM "TRAFFIC SIGNAL POST, GALVANIZED STEEL" OF THE HEIGHT SPECIFIED.
- THE PROPOSED UPS SHALL BE INSTALLED ON THE LEFT (EAST) SIDE OF THE CONTROLLER CABINET.

EMERGENCY VEHICLE PREEMPTION SEQUENCE



EMERGENCY VEHICLE PREEMPTORS		
EMERGENCY VEHICLE PREEMPTOR	1	2
MOVEMENT	↑ ↓	→ ←

SCHEDULE OF QUANTITIES

PAY ITEM	UNIT	QNTY.
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
TRAFFIC SIGNAL POST, GALVANIZED STEEL 14 FT.	EACH	2
TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	1
TRAFFIC SIGNAL POST, GALVANIZED STEEL 18 FT.	EACH	1
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	6
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	2
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	2
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	8
TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM	EACH	2
PEDESTRIAN PUSH-BUTTON	EACH	8
MODIFY EXISTING CONTROLLER CABINET	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
UNINTERRUPTABLE POWER SUPPLY, SPECIAL	EACH	1

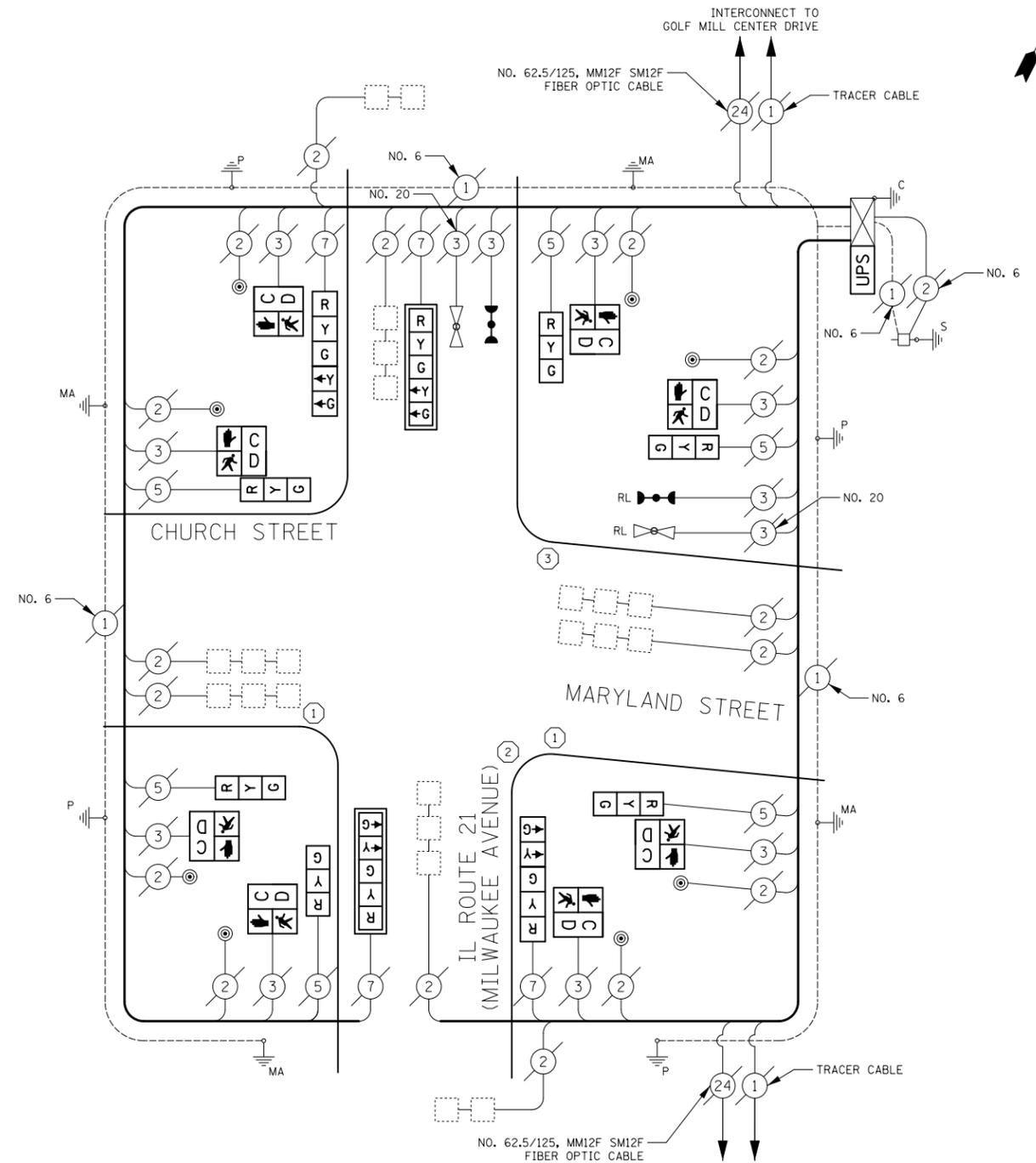
THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

4	EACH	TRAFFIC SIGNAL POST
6	EACH	SIGNAL HEAD, 1-FACE, 3-SECTION
4	EACH	SIGNAL HEAD, 1-FACE, 5-SECTION
2	EACH	TRAFFIC SIGNAL BACKPLATE
8	EACH	PEDESTRIAN SIGNAL HEAD, 1-FACE
8	EACH	PEDESTRIAN PUSH-BUTTON

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. LAMPS	WATTAGE INCAND.	LED	% OPERATION	
SIGNAL (RED)	10	17	0.50		85
(YELLOW)	10	25	0.25		63
(GREEN)	10	15	0.25		38
ARROW	8	12	0.10		10
PED. SIGNAL	8	25	1.00		200
CONTROLLER	1	100	1.00		100
TOTAL =					496

ENERGY COSTS TO: ILLINOIS DEPARTMENT OF TRANSPORTATION  
201 WEST CENTER COURT  
SCHAUMBURG, IL 60196-1096

ENERGY SUPPLY: CONTACT: COM ED  
PHONE: (866) 639-3532  
COMPANY: COM ED



CABLE PLAN  
NOT TO SCALE

- REPLACE PAINTED POST WITH 14 FT. POST, RE-USE EXISTING TYPE A FOUNDATION
- REPLACE PAINTED POST WITH 16 FT. POST, RE-USE EXISTING TYPE A FOUNDATION
- REPLACE PAINTED POST WITH 18 FT. POST, RE-USE EXISTING TYPE A FOUNDATION RELOCATE EXISTING LIGHT DETECTOR AND CONFIRMATION BEACON

NOTE:  
THE TRAFFIC SIGNAL CONTROLLER EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.

TS 2030  
NILES



USER NAME = jrt	DESIGNED - BRD	REVISED -
	DRAWN - JRT	REVISED -
PLOT SCALE = 40.0000' / in.	CHECKED - JJE	REVISED -
PLOT DATE = 12/2/2013	DATE - 12/02/2013	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

CABLE PLAN, PHASE DESIGNATION DIAGRAM AND SCHEDULE OF QUANTITIES  
IL ROUTE 21 (MILWAUKEE AVENUE) AT MARYLAND STREET / CHURCH STREET

NOT TO SCALE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	2013-055TS	COOK	73	47
CONTRACT NO. 60X16				
ILLINOIS FED. AID PROJECT				