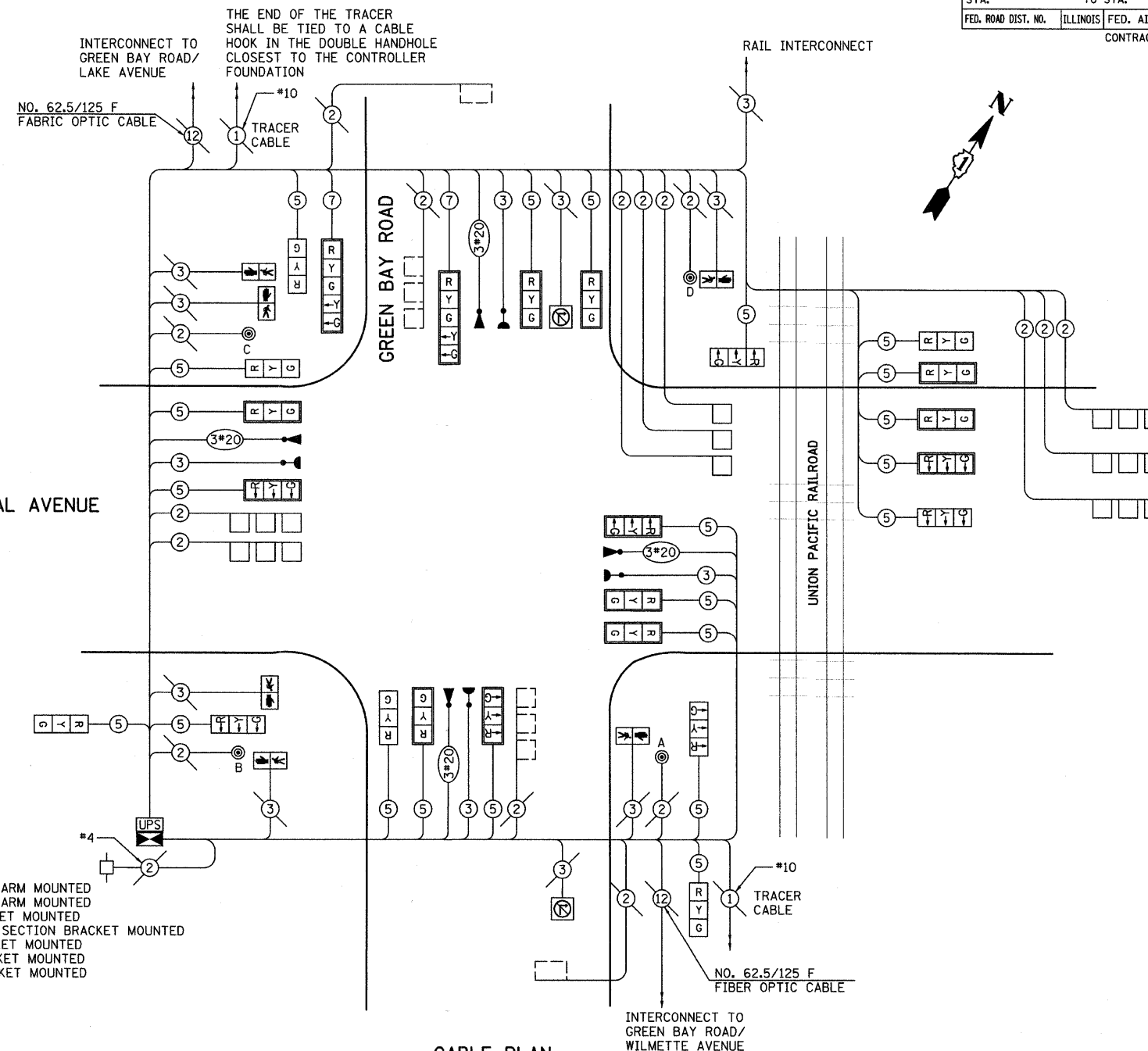


CABLE PLAN LEGEND

EXISTING	PROPOSED	DESCRIPTION	EXISTING	PROPOSED	DESCRIPTION
		8" (200mm) TRAFFIC SIGNAL SECTION			RAILROAD CONTROL CABINET
		12" (300mm) TRAFFIC SIGNAL SECTION			ILLUMINATED SIGN, FIBER OPTIC "NO LEFT TURN"
		12" (300mm) PEDESTRIAN SIGNAL SECTION			ILLUMINATED SIGN, FIBER OPTIC "NO RIGHT TURN"
		12" (300mm) PEDESTRIAN SIGNAL SECTION			GROUND ROD AT CONTROLLER
		CONTROLLER CABINET			GROUND ROD AT POST OR MAST ARM POLE
		SERVICE INSTALLATION			GROUND ROD AT ELECTRIC SERVICE INSTALLATION
		TELEPHONE CONNECTION			GROUND CABLE IN CONDUIT, NO.6 SOLID COPPER (GREEN)
		MAGNETIC DETECTOR			FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125 2-MMI2F & SMI2F
		EMERGENCY VEHICLE LIGHT DETECTOR			HANDHOLE/DOUBLE HANDHOLE WITH GROUNDED FRAME AND COVER
		CONFIRMATION BEACON			UNINTERUPTABLE POWER SUPPLY
		PUSHBUTTON DETECTOR			
		VEHICLE DETECTOR, INDUCTION LOOP			
		DENOTES NUMBER OF CONDUCTORS, ALL CABLE NO. 14 EXCEPT AS INDICATED. ALL LOOP DETECTOR CABLE TO BE SHIELDED.			
		SIGNAL FACE WITH BACKPLATE. "P" INDICATES PROGRAMMED HEAD			



SCHEDULE OF QUANTITIES

QTY	UNIT	ITEM DESCRIPTION
4	EACH	PEDESTRIAN PUSH BUTTON
6	FOOT	CONDUIT IN TRENCH, 2" DIA., GALVANIZED STEEL
4	FOOT	CONDUIT IN TRENCH, 2 1/2" DIA., GALVANIZED STEEL
62	FOOT	CONDUIT, PUSH-4" DIA., GALVANIZED STEEL
2	EACH	HANDHOLE
4	EACH	REBUILD EXISTING HANDHOLE
6	EACH	DRILL EXISTING HANDHOLE
645	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C
4053	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C
362	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C
1510	FOOT	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR
1	EACH	STEEL MAST ARM ASSEMBLY AND POLE, 24 FT.
8	FOOT	CONCRETE FOUNDATION, TYPE A
12	EACH	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED
1	EACH	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED
8	EACH	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED
1	EACH	SIGNAL HEAD, POLYCARBONATE, LED, 2-FACE, 1-3-SECTION, 1-5 SECTION BRACKET MOUNTED
2	EACH	SIGNAL HEAD, POLYCARBONATE, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED
2	EACH	PEDESTRIAN SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, BRACKET MOUNTED
2	EACH	PEDESTRIAN SIGNAL HEAD, POLYCARBONATE, LED, 2-FACE, BRACKET MOUNTED
13	EACH	TRAFFIC SIGNAL BACKPLATE
8	EACH	INDUCTIVE LOOP DETECTOR
663	FOOT	DETECTOR LOOP, TYPE I
10	FOOT	TRENCH AND BACKFILL FOR ELECTRICAL WORK
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
1	EACH	REMOVE EXISTING HANDHOLE
2	EACH	REMOVE EXISTING CONCRETE FOUNDATION
5484	FOOT	REMOVE EXISTING CABLE FROM CONDUIT
645	FOOT	ELECTRIC CABLE IN CONDUIT, NO. 20 3/C, TWISTED, SHIELDED
2	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL, 14 FT.
4	EACH	LIGHT DETECTOR
1	EACH	LIGHT DETECTOR AMPLIFIER
1	EACH	FULL - ACTUATED CONTROLLER, IN TYPE IV CABINET
1	EACH	UNINTERUPTABLE POWER SUPPLY, STANDARD
1	EACH	MAINTAIN EXISTING TRAFFIC SIGNAL INSTALLATION
1	EACH	TRANSCEIVER, FIBER OPTIC
2	EACH	ILLUMINATED SIGN, LED
1	EACH	TEMPORARY TRAFFIC SIGNAL TIMING

CABLE PLAN
NOT TO SCALE

NOTES:

- PEDESTRIAN PUSH BUTTON "A" TO CALL PHASE 3.
- PEDESTRIAN PUSH BUTTON "B" TO CALL PHASE 3 AND 6.
- PEDESTRIAN PUSH BUTTON "C" TO CALL PHASE 4 AND 6.
- PEDESTRIAN PUSH BUTTON "D" TO CALL PHASE 4.

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. LAMPS	WATTAGE LED	% OPERATIONS	TOTAL WATTAGE
SIGNAL (RED)	24	17	0.50	204
(YELLOW)	24	25	0.25	150
(GREEN)	24	15	0.25	90
ARROW	4	12	0.10	4.8
PED. SIGNAL	6	25	1.00	150
CONTROLLER	1	100	1.00	100
IL SIGN	2	25	0.05	2.5
FLASHER LED			0.05	0
TOTAL =				701.3

FOUNDATION	DEPTH	DEPTH (FT.)	CABLE SLACK	(FT.)	VERTICAL	(FT.)
TYPE A - POST	4	4	HANDHOLE	6.5	ALL FOUNDATIONS	3.5
D - CONTROLLER	4	4	DOUBLE HANDHOLE	13	MAST ARM (L) POLE	=20' HL-2
E - MAST ARM POLE			SIGNAL POST	2	BRACKET MOUNTED	13
24"	10	10	CONTROLLER CAB.	1	PED. PUSHBUTTON	4
30"	15	15	FIBER OPTIC	13	ELECTRICAL SERVICE	13.5
			ELECTRICAL SERVICE	1	SERVICE TO GROUND	13.5
			GROUND CABLE	1	POSTMOUNTED	6

ENERGY COSTS- BILLED TO: VILLAGE OF WILMETTE
(ADDRESS) 1200 WILMETTE AVENUE
WILMETTE, IL

ENERGY SUPPLY - CONTACT _____
PHONE _____
COMPANY COMED

REVISIONS	
NAME	DATE

CABLE PLAN, SCHEDULE OF QUANTITIES AND PHASE DESIGNATION DIAGRAM

CENTRAL AVENUE AT GREEN BAY ROAD

CONSULTANT
TYLIN INTERNATIONAL

VILLAGE OF WILMETTE
GREEN BAY ROAD
INTERSECTION IMPROVEMENTS

DRAMA: BK
CHECKED: DAJ
APPROVED: DAJ
DATE: 02-14-2008
SCALE: NONE
JOB NO.: _____ SHEET NO.: _____ PROJECT NO.: _____