83757

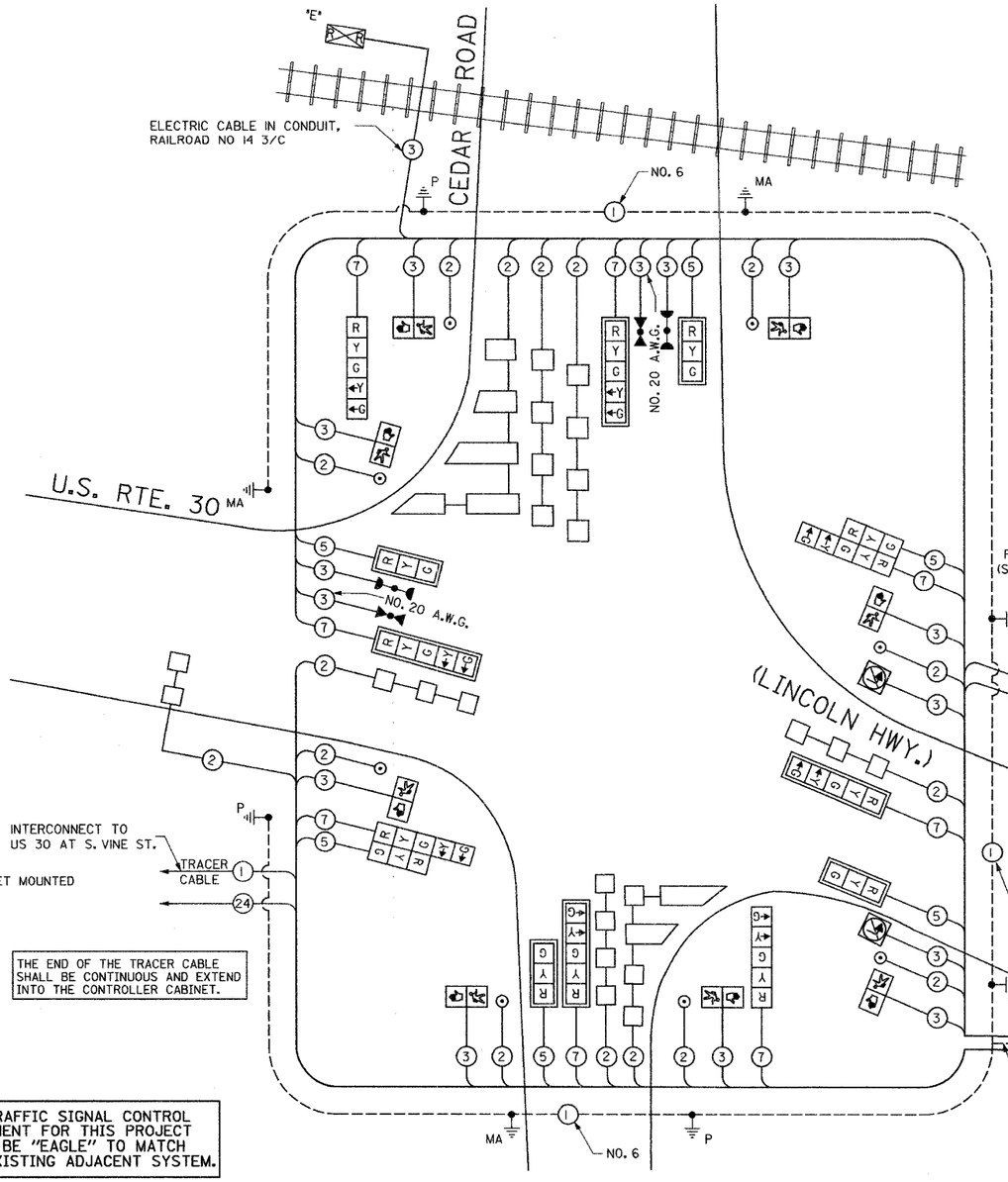
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
0369	97-000-25-00 BR	WILL	156	86
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT:		

D-91-467-97

SCHEDULE OF QUANTITIES

QUANTITY	UNIT	ITEM
75	SQ FT	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH
75	SQ FT	SIDEWALK REMOVAL
37.5	SQ FT	SIGN PANEL - TYPE 1
30	SQ FT	SIGN PANEL - TYPE 2
403	FOOT	CONDUIT IN TRENCH, 2" DIA., GALVANIZED STEEL
70	FOOT	CONDUIT IN TRENCH, 2½" DIA., GALVANIZED STEEL
192	FOOT	CONDUIT IN TRENCH, 4" DIA., GALVANIZED STEEL
492	FOOT	CONDUIT PUSHED, 2" DIA., GALVANIZED STEEL
357	FOOT	CONDUIT PUSHED, 4" DIA., GALVANIZED STEEL
9	EACH	HANDHOLE
3	EACH	HEAVY-DUTY HANDHOLE
3	EACH	DOUBLE HANDHOLE
721	FOOT	TRENCH AND BACKFILL FOR ELECTRICAL WORK
1	EACH	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL
1	EACH	TRANSCEIVER-FIBER OPTIC
1520	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C
2462	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C
1296	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C
1746	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C
2532	FOOT	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR
124	FOOT	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C
3	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.
1	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL 18 FT.
1	EACH	STEEL COMBINATION MAST ARM ASSEMBLEY AND POLE, 28 FT.
1	EACH	STEEL COMBINATION MAST ARM ASSEMBLEY AND POLE, 32 FT.
1	EACH	STEEL COMBINATION MAST ARM ASSEMBLEY AND POLE, 38 FT.
1	EACH	STEEL COMBINATION MAST ARM ASSEMBLEY AND POLE, 42 FT.
16	FOOT	CONCRETE FOUNDATION, TYPE A
4	FOOT	CONCRETE FOUNDATION, TYPE D
15	FOOT	CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER
45	FOOT	CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER
8	EACH	TRAFFIC SIGNAL BACKPLATE
10	EACH	INDUCTIVE LOOP DETECTOR
1166	FOOT	DETECTOR LOOP, TYPE 1
• 2	EACH	LIGHT DETECTOR
• 1	EACH	LIGHT DETECTOR AMPLIFIER
8	EACH	PEDESTRIAN PUSH-BUTTON
1	EACH	TEMPORARY TRAFFIC SIGNAL INSTALLATION
2	EACH	ILLUMINATED SIGN, L.E.D.
132	FOOT	REMOVE ELECTRIC CABLE FROM CONDUIT
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
13	EACH	REMOVE EXISTING HANDHOLE
9	EACH	REMOVE EXISTING CONCRETE FOUNDATION
1	EACH	SERVICE INSTALLATION, POLE MOUNT
755	FOOT	ELECTRIC CABLE IN CONDUIT, GROUNDING, NO. 6 1C
• 659	FOOT	ELECTRIC CABLE IN CONDUIT NO. 20 3/C, TWISTED, SHIELDED
4	EACH	SIGNAL HEAD, L.E.D., 1-FACE, 3-SECTION, MAST ARM MOUNTED
2	EACH	SIGNAL HEAD, L.E.D., 1-FACE, 5-SECTION, BRACKET MOUNTED
4	EACH	SIGNAL HEAD, L.E.D., 1-FACE, 5-SECTION, MAST ARM MOUNTED
2	EACH	SIGNAL HEAD, L.E.D., 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED
8	EACH	PEDESTRIAN SIGNAL HEAD, L.E.D., 1-FACE, BRACKET MOUNTED
591	FOOT	ELECTRIC CABLE IN CONDUIT, RAILROAD NO. 14 3C

• 100% COST TO THE CITY OF NEW LENOX



CABLE PLAN LEGEND

EXISTING	PROPOSED	
G	G	8" (200mm) TRAFFIC SIGNAL SECTION
R	R	12" (300mm) TRAFFIC SIGNAL SECTION
W	W	12" (300mm) PEDESTRIAN SIGNAL SECTION
		12" (300mm) PEDESTRIAN SIGNAL SECTION
		CONTROLLER CABINET
		SERVICE INSTALLATION
T	T	TELEPHONE INSTALLATION
		VEHICLE DETECTOR, INDUCTION LOOP
		MAGNETIC DETECTOR
		EMERGENCY VEHICLE LIGHT DETECTOR
		CONFIRMATION BEACON
		PUSH-BUTTON DETECTOR
(2)	(2)	DENOTES NUMBER OF CONDUCTORS, ALL CABLE NO. 14 EXCEPT AS INDICATED. ALL LOOP DETECTOR CABLE TO BE SHIELDED.
(1)	(1)	GROUND CABLE IN CONDUIT NO.6 SOLID COPPER (GREEN)
(24)	(24)	FIBER OPTIC CABLE IN CONDUIT NO. 62.5/125 2-MMI2F & SMI2F
R Y G ←Y ←G *P*	R Y G ←Y ←G *P*	SIGNAL FACE WITH BACKPLATE. "P" INDICATES PROGRAMMED HEAD.
"E" R	R	RAILROAD CONTROL CABINET
"E"		ILLUMINATED SIGN, FIBER OPTIC "NO LEFT TURN"
"E"		ILLUMINATED SIGN, FIBER OPTIC "NO RIGHT TURN"
H/C	H/C	GROUND ROD AT HANDHOLE (H), DOUBLE HANDHOLE (H), OR CONTROLLER (H)
P	P	GROUND ROD AT POST (P) OR MAST ARM POLE (MA)
S	S	GROUND ROD AT ELECTRIC SERVICE INSTALLATION
	M C	LOCAL AND MASTER CONTROLLER
		MICROWAVE VEHICLE SENSOR

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO LAMPS	WATTAGE INCAND.	WATTAGE LED	%OPERATION	
SIGNAL (RED)	14	135	17	0.50	119.0
(YELLOW)	14	135	25	0.25	87.5
(GREEN)	14	135	15	0.25	52.5
ARROW	16	135	12	0.10	19.2
PED. SIGNAL	8	90	25	1.00	200.0
CONTROLLER	1	100	100	1.00	100.00
ILLUM. SIGN	2		84	0.05	8.4
FLASHER				0.50	
				TOTAL =	586.6

ENERGY COSTS TO: VILLAGE OF NEW LENOX

ILLINOIS DEPARTMENT OF TRANSPORTATION
201 WEST CENTER COURT
SCHAUMBURG, ILLINOIS 60196-1096

ENERGY SUPPLY CONTACT: MR. CRAIG TRIEMSTRE
PHONE: (815) 724-5607
COMPANY: COMED - JOLIET OFFICE

THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "EAGLE" TO MATCH THE EXISTING ADJACENT SYSTEM.

CABLE PLAN
NOT TO SCALE

FOUNDATION (DEPTH)	FT. (m)	CABLE SLACK	FT. (m)	VERTICAL	FT. (m)
TYPE A-POST	4 (1.2)	HANDHOLE	6.5 (2.0)	ALL FOUNDATIONS	3.5 (1.0)
D-CONTROLLER	4 (1.2)	DOUBLE HANDHOLE	13 (4.0)	MAST ARM (L) POLE	20'+L-2=
E-M.ARM POLE		SIGNAL POST	2 (1.0)		(6m+L-0.6m)=
24" (600mm)	10 (3.0)	CONTROLLER CAB.	1 (0.5)	BRACKET MOUNTED	13 (4.0)
30" (750mm)	15 (4.6)	FIBER OPTIC	13 (4.0)	PED. PUSHBUTTON	4 (1.2)
36" (914mm)	15 (4.6)	ELECTRIC SERVICE	1 (0.5)	ELECTRIC SERVICE	13.5 (4.1)
		GROUND CABLE	1 (0.5)	SERVICE TO GROUND	13.5 (4.1)
				POST MOUNTED	6 (1.8)

GANDHI AND ASSOCIATES, INC.
ENGINEERS AND PLANNERS
6035 N. NORTHWEST HIGHWAY
SUITE 306
CHICAGO, ILLINOIS 60631 TEL. (773) 774-5900

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

CABLE PLAN
AND SCHEDULE OF QUANTITIES
US 30 (LINCOLN HIGHWAY)
AT CEDAR ROAD

SCALE: N.T.S.
DATE: JULY 20, 2005

DRAWN BY: JEK/BB
DESIGNED BY: RRM
CHECKED BY: RRM/PKG

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