

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	9918(2) R-3&9-14B-1-001-2	WILL	303	120
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 62253

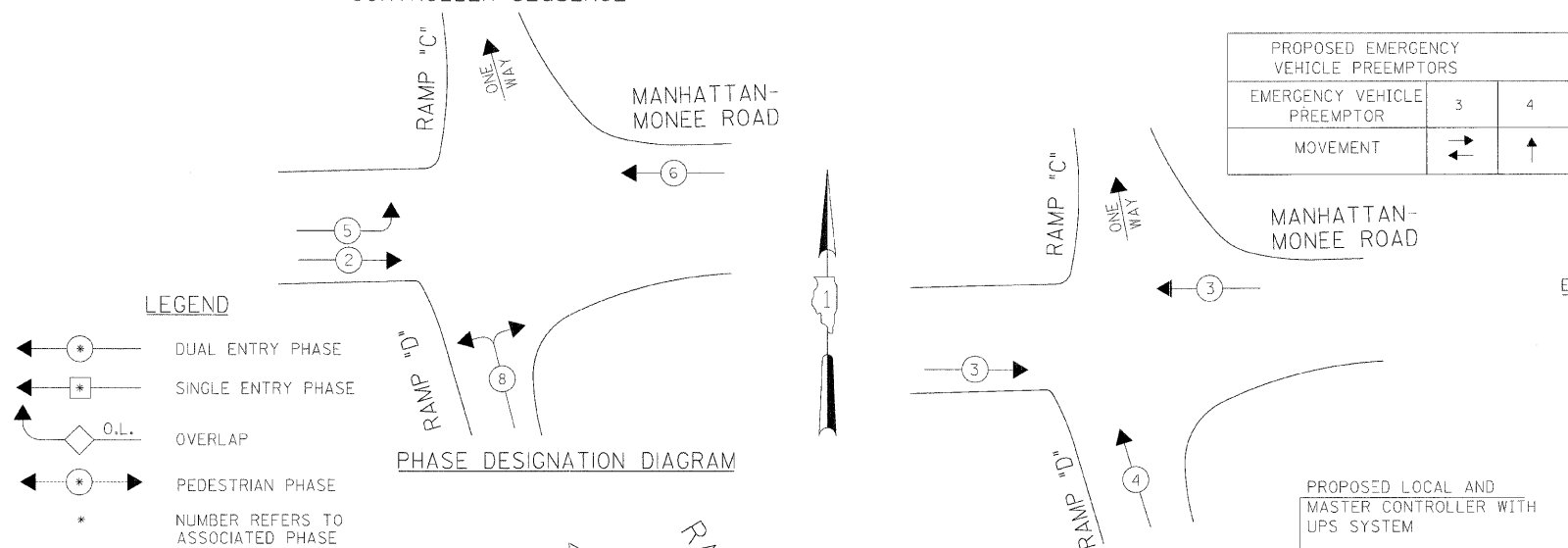
SCHEDULE OF QUANTITIES

QUANTITY	UNIT	ITEM
15	SQ FT	SIGN PANEL - TYPE 2
1290	FOOT	CONDUIT IN TRENCH, 2" DIA., GALVANIZED STEEL
40	FOOT	CONDUIT IN TRENCH, 2 1/2" DIA., GALVANIZED STEEL
8	FOOT	CONDUIT IN TRENCH, 4" DIA., GALVANIZED STEEL
194	FOOT	CONDUIT PUSHED, 2" DIA., GALVANIZED STEEL
317	FOOT	CONDUIT PUSHED, 4" DIA., GALVANIZED STEEL
8	EACH	HANDHOLE
1	EACH	HEAVY-DUTY HANDHOLE
1	EACH	DOUBLE HANDHOLE
956	FOOT	TRENCH AND BACKFILL FOR ELECTRICAL WORK
1	EACH	FULL-ACTUATED CONTROLLER AND TYPE V CABINET
1	EACH	TRANSCEIVER-FIBER OPTIC
781	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C
1752	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C
282	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C
2776	FOOT	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR
235	FOOT	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C
1	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL 14 FT.
1	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL 18 FT.
1	EACH	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE, 38 FT.
1	EACH	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE, 40 FT.
1	EACH	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE, 46 FT.
8	FOOT	CONCRETE FOUNDATION, TYPE A
4	FOOT	CONCRETE FOUNDATION, TYPE C
45	FOOT	CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER
5	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED
2	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED
1	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED
1	EACH	SIGNAL HEAD, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED
1	EACH	SIGNAL HEAD, LED, 3-FACE, 2-3 SECTION, 1-5 SECTION BRACKET MOUNTED
6	EACH	TRAFFIC SIGNAL BACKPLATE
8	EACH	INDUCTIVE LOOP DETECTOR
1	EACH	LIGHT DETECTOR
2	EACH	RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, DETECTOR UNIT
1	EACH	RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
517	FOOT	PREFORMED DETECTOR LOOP
1	EACH	SERVICE INSTALLATION, POLE MOUNTED
1	EACH	UNINTERRUPTIBLE POWER SUPPLY
1149	FOOT	ELECTRIC CABLE IN CONDUIT, GROUNDING, NO. 6 1C
781	FOOT	ELECTRIC CABLE IN CONDUIT NO. 20 3/C, TWISTED, SHIELDED

* 100% COST TO VILLAGE OF MONEE

CONTROLLER SEQUENCE

EMERGENCY VEHICLE PREEMPTION SEQUENCE



PROPOSED EMERGENCY VEHICLE PREEMPTORS		
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	←	↑

CABLE PLAN LEGEND

EXISTING	PROPOSED
⊙	G 8" (200mm) TRAFFIC SIGNAL SECTION
⊗	R 12" (300mm) TRAFFIC SIGNAL SECTION
⊠	CONTROLLER CABINET
⊞	SERVICE INSTALLATION
⊟	TELEPHONE INSTALLATION
⊡	VEHICLE DETECTOR, INDUCTIVE LOOP
⊢	PREFORMED DETECTOR LOOP
⊣	MAGNETIC DETECTOR
⊤	EMERGENCY VEHICLE LIGHT DETECTOR
⊥	CONFIRMATION BEACON
⊦	PUSH-BUTTON DETECTOR
⊧	⊙ DENOTES NUMBER OF CONDUCTORS, ALL CABLE NO. 14 EXCEPT AS INDICATED. ALL LOOP DETECTOR CABLE TO BE SHIELDED.
⊨	⊙ GROUND CABLE IN CONDUIT NO. 6 SOLID COPPER (GREEN)
⊩	⊙ FIBER OPTIC CABLE IN CONDUIT NO. 62.5/125 2-MM2F & SM12F
⊪	⊙ SIGNAL FACE WITH BACKPLATE. *P* INDICATES PROGRAMMED HEAD.
⊫	*E* ⊠ 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, DOUBLE HANDHOLE, OR CONTROLLER
P	P ⊞ GROUND ROD AT POST OR MAST ARM POLE
S	S ⊞ GROUND ROD AT ELECTRIC SERVICE INSTALLATION
⊮	⊠ LOCAL AND MASTER CONTROLLER
⊯	⊠ MICROWAVE VEHICLE SENSOR
⊰	⊠ UNINTERRUPTIBLE POWER SUPPLY

THE END OF THE TRACER CABLE SHALL BE CONTINUOUS AND EXTEND INTO THE CONTROLLER CABINET.

INTERCONNECT TO RAMP A & B

PROPOSED INTERSECTION AND SAMPLING (SYSTEM) DETECTORS

PROPOSED INTERSECTION AND SAMPLING (SYSTEM) DETECTORS

CABLE PLAN NOT TO SCALE

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO LAMPS	WATTAGE	OPERATION		
SIGNAL (RED)	13	135	17	0.50	110.5
(YELLOW)	13	135	25	0.25	81.25
(GREEN)	13	135	15	0.25	48.75
ARROW	4	135	12	0.10	4.8
PED. SIGNAL	0	90	25	1.00	0.0
CONTROLLER	1	100	100	1.00	100.0
ILLUM. SIGN				0.05	
FLASHER				0.50	
TOTAL =					345.3

ENERGY COSTS TO:
ILLINOIS DEPARTMENT OF TRANSPORTATION
201 WEST CENTER COURT
SCHAUMBURG, ILLINOIS 60196-1096
ENERGY SUPPLY CONTACT: MR. BRIAN SURDY
PHONE: 708-235-2352
COMPANY: COMED-EDISON

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'-H.-2'=(6m-H.-0.6m)=
E-MAST ARM POLE		SIGNAL POST	2 (1.0)	BRACKET MOUNTED	13 (4.0)
24" (600mm)	10 (3.0)	CONTROLLER CAB.	1 (0.5)	PED. PUSHBUTTON	4 (1.2)
30" (750mm)	15 (4.6)	FIBER OPTIC	13 (4.0)	ELECTRIC SERVICE	13.5 (4.1)
		ELECTRIC SERVICE	1 (0.5)	SERVICE TO GROUND	13.5 (4.1)
		GROUND CABLE	1 (0.5)	POST MOUNTED	6 (1.8)

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REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
CABLE PLAN
MANHATTAN-MONEE ROAD
AT RAMP "C" AND "D"
SCALE: NONE
DATE: 04/09/2007
DRAWN BY: KGP/RDP
DESIGNED BY: PKG
CHECKED BY: PKG