

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
704	(1)N & TS-1	McLean	497	263
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 70514

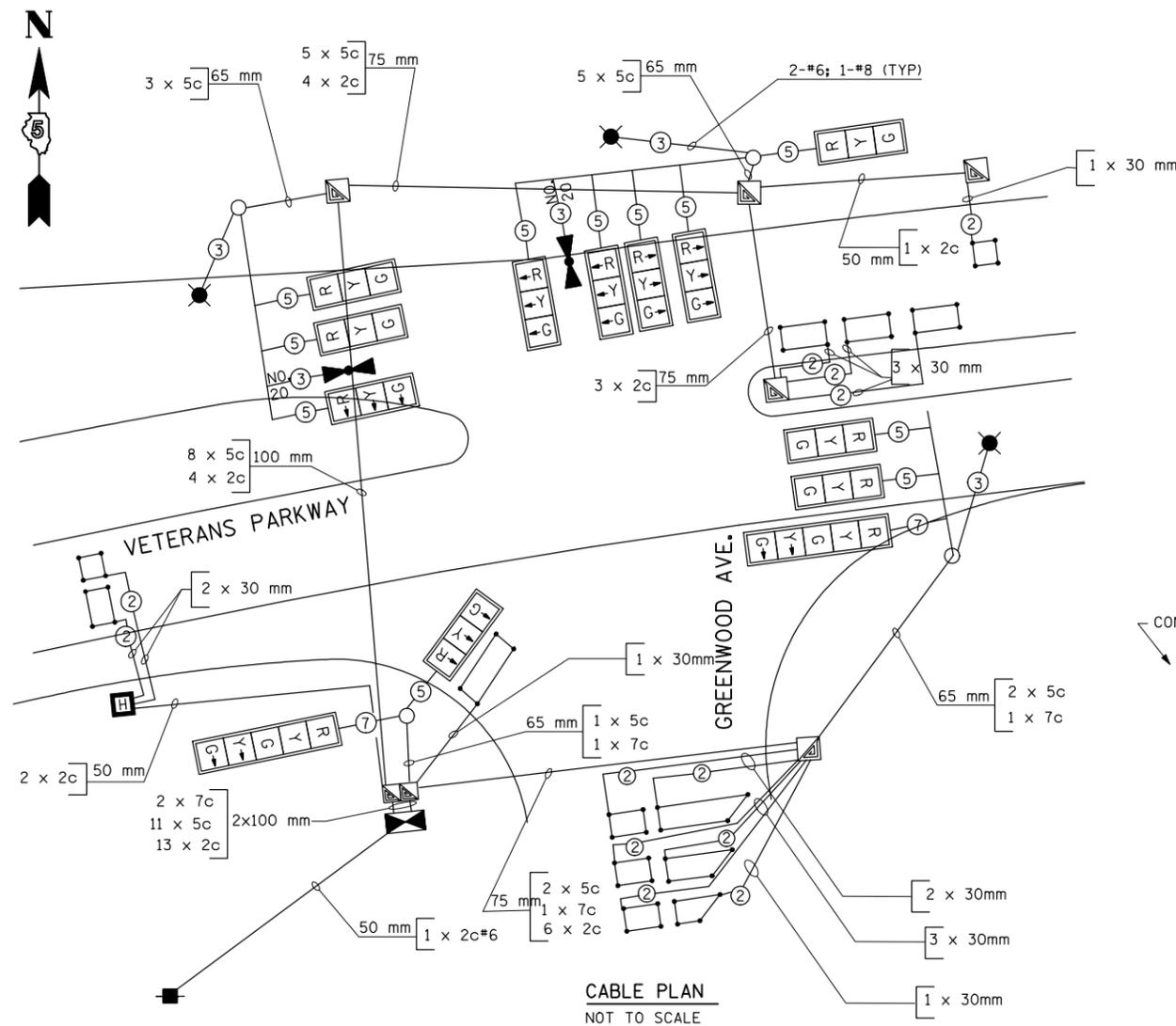
BILL OF MATERIALS

ITEM	UNIT	QNTY.
HANDHOLE	EACH	5
HEAVY DUTY HANDHOLE	EACH	1
DOUBLE HANDHOLE	EACH	1
FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL	EACH	1
TRANSCIEVER - FIBER OPTIC	EACH	1
TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	12
INDUCTIVE LOOP DETECTOR	EACH	13
SIGN PANEL TYPE I	SQ M	1
SIGN PANEL TYPE II	SQ M	3
CONDUIT IN TRENCH, 50MM DIA., PVC	METER	222
CONDUIT IN TRENCH, 65MM DIA., PVC	METER	52
CONDUIT IN TRENCH, 100MM DIA., PVC	METER	4
CONDUIT PUSHED, 75MM DIA., GALVANIZED STEEL	METER	51
CONDUIT PUSHED, 100MM DIA., GALVANIZED STEEL	METER	37
TRENCH AND BACKFILL FOR ELECTRICAL WORK	METER	311
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	METER	1010
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	METER	964
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	METER	96
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	METER	308
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	METER	36
TRAFFIC SIGNAL POST, GALVANIZED STEEL 4.85 METER	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE, 8.53 METER	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE, 14.63 METER	EACH	2
CONCRETE FOUNDATION, TYPE A	METER	1.2
CONCRETE FOUNDATION, TYPE D	METER	1.2
CONCRETE FOUNDATION, TYPE E, 600MM DIAMETER	METER	4
CONCRETE FOUNDATION, TYPE E, 750MM DIAMETER	METER	13.8
DETECTOR LOOP, TYPE I	METER	162
ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1/C	METER	839
FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125 MM12F & SM12F	METER	300
ELECTRIC CABLE IN CONDUIT, GROUNDING NO. 6 1C	METER	181
SERVICE INSTALLATION, TYPE A	EACH	1
LIGHT POLE, WOOD, 10.67 METERS, CLASS 3	EACH	1
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	9
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	1
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED	EACH	1
SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED	EACH	1
LIGHT DETECTOR	EACH	2
LIGHT DETECTOR AMPLIFIER	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 20 3C TWISTED SHIELDED	EACH	195
BATTERY BACKUP	EACH	1

** 100% COST TO CITY OF BLOOMINGTON FIRE DEPARTMENT.

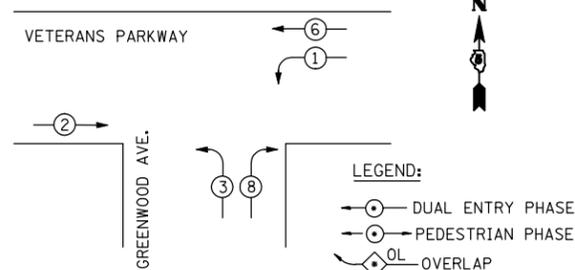
CABLE PLAN LEGEND:

- SERVICE INSTALLATION
- ⊠ CONTROLLER
- HANDHOLE
- ⊠ HEAVY-DUTY HANDHOLE
- ⊠ DOUBLE HANDHOLE
- MAST ARM OR SIGNAL POST
- ← Y YELLOW LEFT TURN ARROW
- R RED BALL SECTION
- SIGNAL HEAD BACKPLATE
- ⑤ NUMBER OF CONDUCTORS IN CABLE
- CONDUIT SIZE: 50 mm
- NUMBER OF CABLES IN CONDUIT: 3 x 2c, 1 x 3c
- NUMBER OF CONDUCTORS IN EACH CABLE
- ⊠ 12" (300mm) PEDESTRIAN SIGNAL SECTION
- ⊙ PEDESTRIAN PUSHBUTTON
- DETECTOR LOOP
- ⊠ EMERGENCY VEHICLE LIGHT DETECTOR



CABLE PLAN
NOT TO SCALE

CONTROLLER SEQUENCE



PHASE DESIGNATION DIAGRAM

• NUMBER REFERS TO ASSOCIATED PHASE REFER TO STANDARD 857001

NOTE: LIGHTING CABLE SHALL CONSIST OF 2-#6 (XLP-TYPE USE) 1-#8 (XLP-TYPE USE) AND SHALL BE INSTALLED IN THE SEPARATE LIGHTING CONDUIT AS SHOWN ON THE PLAN SHEET. SEE BILL OF MATERIALS FOR LIGHTING.

\$FILES 10/14/2010 \$TIME\$

TS-14

AMES Engineering, Inc.
Consulting Engineers
1341 Warren Avenue
Downers Grove, IL 60515

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION VETERANS PARKWAY AND GREENWOOD AVE. SCHEDULE OF QUANTITIES CABLE PLAN AND PHASE DESIGNATION DIAGRAM
NAME	DATE	

SCALE: NONE
DATE: MARCH, 2009

DRAWN BY: RV
DESIGNED BY: AS
CHECKED BY: MSA