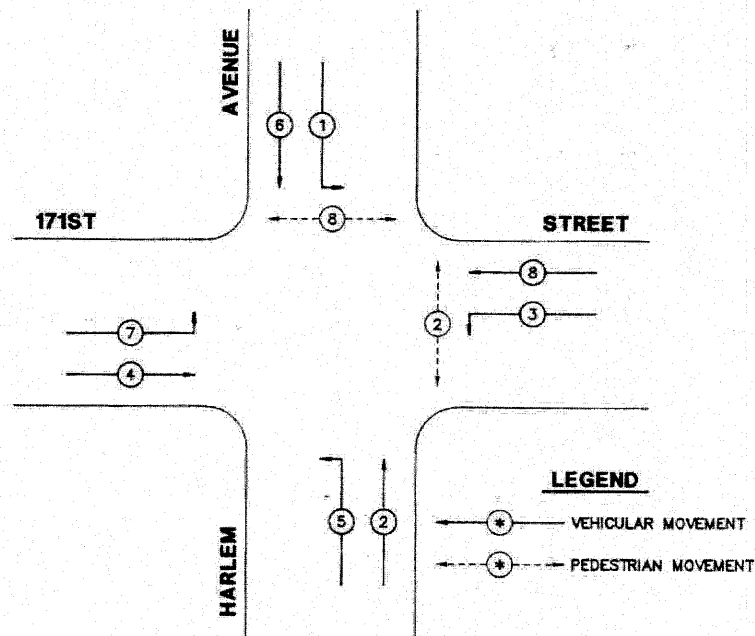


CONTROLLER SEQUENCE IV

REFERRING TO STANDARD 2393-1 THE VEHICULAR AND PEDESTRIAN PHASES USED ARE DESIGNATED BELOW.



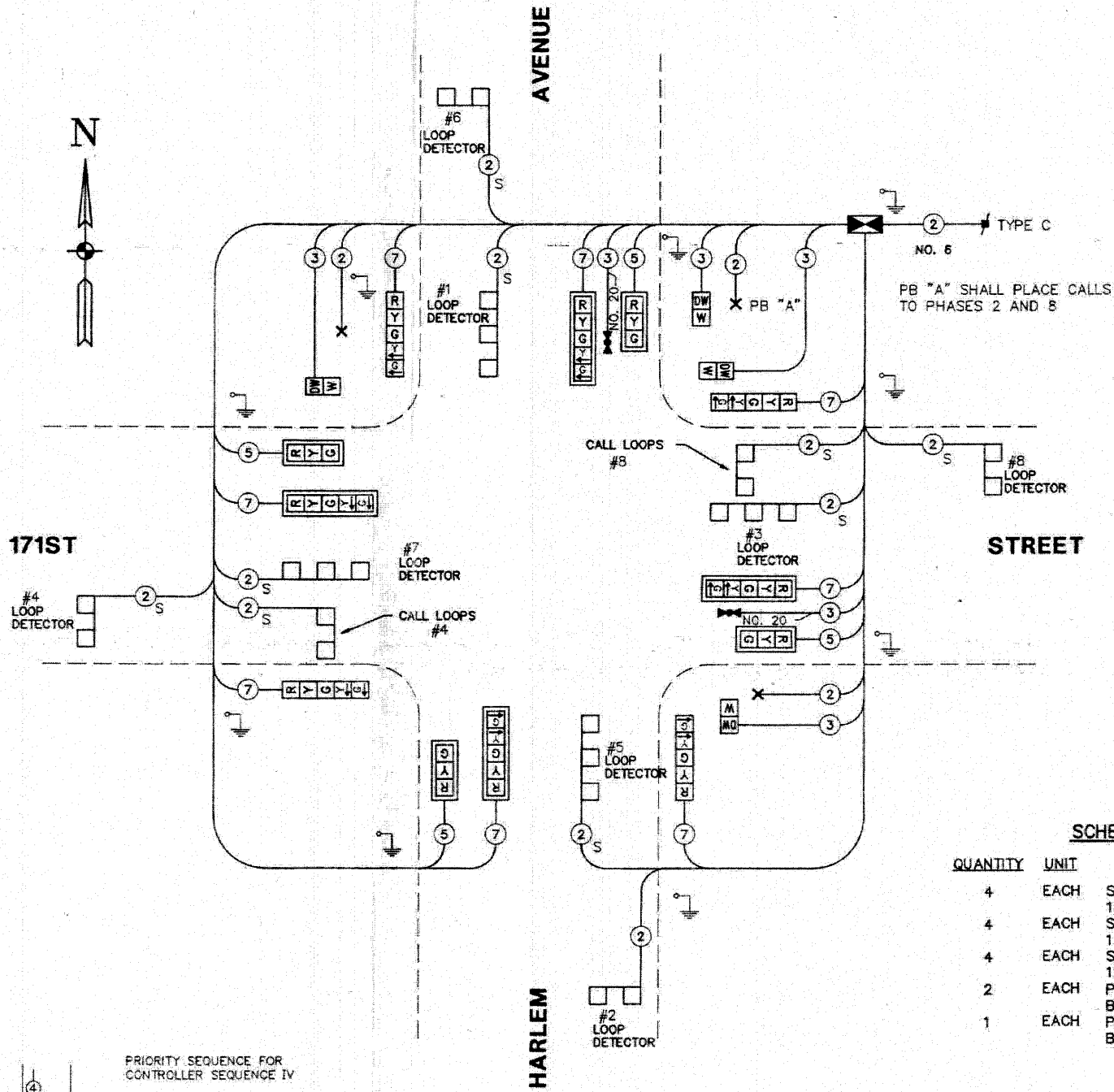
PHASE DESIGNATION DIAGRAM

BILL OF MATERIAL

QUAN.	UNIT	ITEM
1	EACH	FULL-ACTUATED CONTROLLER, STD SEQ IV, 8 PHASES, IN TYPE IV CABINET
4	EACH	SIGNAL HEAD, ALUMINUM, 1-FACE, 3-SECTION, MAST ARM MOUNTED
4	EACH	SIGNAL HEAD, ALUMINUM, 1-FACE, 5-SECTION, MAST ARM MOUNTED
4	EACH	SIGNAL HEAD, ALUMINUM, 1-FACE, 5-SECTION, BRACKET MOUNTED
2	EACH	PEDESTRIAN SIGNAL HEAD, ALUMINUM, 1-FACE, BRACKET MOUNTED
1	EACH	PEDESTRIAN SIGNAL HEAD, ALUMINUM, 2-FACE, BRACKET MOUNTED
8	EACH	TRAFFIC SIGNAL BACKPLATE, LOUVERED
4	EACH	TRAFFIC SIGNAL POST, FERROUS, 16 FT.
1	EACH	STEEL MAST ARM ASSEMBLY AND POLE, 30 FT. MAST ARM
2	EACH	STEEL MAST ARM ASSEMBLY AND POLE, 36 FT. MAST ARM
1	EACH	STEEL MAST ARM ASSEMBLY AND POLE, 42 FT. MAST ARM
1	EACH	SERVICE INSTALLATION, TYPE C
8	EACH	INDUCTION LOOP DETECTOR AMPLIFIER
2	EACH	INDUCTION LOOP DETECTOR AMPLIFIER, WITH CALLING DETECTOR RELAY
3	EACH	PEDESTRIAN PUSH BUTTON
6	EACH	CONCRETE HANDHOLE
2	EACH	CONCRETE HEAVY-DUTY HANDHOLE
1	EACH	CONCRETE DOUBLE HANDHOLE
1	EACH	TEMPORARY TRAFFIC SIGNAL INSTALLATION
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
6	EACH	REMOVE EXISTING HANDHOLE
8	EACH	REMOVE EXISTING CONCRETE FOUNDATION
12	LIN FT	CONCRETE FOUNDATION, TYPE A
3.5	LIN FT	CONCRETE FOUNDATION, TYPE D
60	LIN FT	CONCRETE FOUNDATION, TYPE E (30 IN. DIA.)
749	LIN FT	DETECTOR LOOP, TYPE 1
17	LIN FT	ELECTRIC CABLE IN CONDUIT, NO. 6 2/C
486	LIN FT	ELECTRIC CABLE IN CONDUIT, NO. 14, 2/C
486	LIN FT	ELECTRIC CABLE IN CONDUIT, NO. 14, 3/C
891	LIN FT	ELECTRIC CABLE IN CONDUIT, NO. 14, 5/C
1660	LIN FT	ELECTRIC CABLE IN CONDUIT, NO. 14, 7/C
2755	LIN FT	ELECTRIC CABLE IN CONDUIT, NO. 14, 2/C, TWISTED, SHIELDED
267	LIN FT	EMERGENCY VEHICLE PRIORITY SYSTEM LEAD-IN CABLE IN CONDUIT
517	LIN FT	GALVANIZED STEEL CONDUIT IN TRENCH - 1 1/4 IN.
15	LIN FT	GALVANIZED STEEL CONDUIT IN TRENCH - 1 1/2 IN.
89	LIN FT	GALVANIZED STEEL CONDUIT IN TRENCH - 2 IN.
129	LIN FT	GALVANIZED STEEL CONDUIT IN TRENCH - 2 1/2 IN.
136	LIN FT	GALVANIZED STEEL CONDUIT IN TRENCH - 3 IN.
67	LIN FT	GALVANIZED STEEL CONDUIT IN TRENCH - 4 IN.
52	LIN FT	GALVANIZED STEEL CONDUIT PUSHED - 3 IN.
139	LIN FT	GALVANIZED STEEL CONDUIT PUSHED - 4 IN.
183	LIN FT	UNIT DUCT, WITHOUT CABLE, IN TRENCH 1"
1094	LIN FT	TRENCH AND BACKFILL
435	LIN FT	PULL ELECTRIC CABLE FROM CONDUIT
2	EACH	RELOCATE EMERGENCY VEHICLE PRIORITY SYSTEM DETECTOR UNIT
1	EACH	RELOCATE EMERGENCY VEHICLE PRIORITY SYSTEM PHASING UNIT
6	EACH	DRILL EXISTING HANDHOLE
105	SQ FT	MEDIAN REMOVAL AND REPLACEMENT

NOTE:

A TRANSYT MODEL 1880EL CONTROLLER SHALL BE UTILIZED FOR THE TRAFFIC SIGNAL INSTALLATION TO BE COMPATIBLE WITH THE EXISTING TBC SYSTEM ON HARLEM AVENUE.



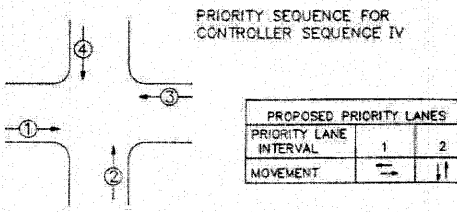
CABLE PLAN LEGEND

- [G] 8" TRAFFIC SIGNAL SECTION
- [R] 12" TRAFFIC SIGNAL SECTION
- [W] 12" PEDESTRIAN SIGNAL SECTION
- [C] CONTROLLER CABINET
- [S] SERVICE INSTALLATION
- [V] VEHICLE DETECTOR, INDUCTION LOOP
- [X] PUSHBUTTON DETECTOR
- (2) DENOTES NUMBER OF CONDUCTORS (NEW) ALL LOOP DETECTOR CABLE TO BE TWISTED & SHIELDED. ALL CABLE #14 EXCEPT AS INDICATED.
- (2) INDICATES EXISTING CABLE
- [P] SIGNAL FACE WITH 12" LENSES "P" INDICATES PROGRAMMED
- [B] BACKPLATE
- [R] EXISTING SIGNAL SECTION
- [M] MAGNETIC DETECTOR
- [O] OPTICAL DETECTOR
- [GND] GROUND
- [S] SHIELDED AND TWISTED

SCHEDULE OF SIGNAL HEADS

QUANTITY	UNIT	ITEM
4	EACH	SIGNAL HEAD, ALUMINUM, 1-FACE, 3-SECTION, WITH 12" LENSES, MAST ARM MOUNTED
4	EACH	SIGNAL HEAD, ALUMINUM, 1-FACE, 5-SECTION, WITH 12" LENSES, BRACKET MOUNTED
4	EACH	SIGNAL HEAD, ALUMINUM, 1-FACE, 5-SECTION, WITH 12" LENSES, MAST ARM MOUNTED
2	EACH	PEDESTRIAN SIGNAL HEAD, ALUMINUM, 1-FACE BRACKET MOUNTED
1	EACH	PEDESTRIAN SIGNAL HEAD, ALUMINUM, 2-FACE, BRACKET MOUNTED

FOR REFERENCE ONLY



- NOTES:**
- TERMINATION OF PHASES 1+5 OR 3+7 SHALL BE WITH A YELLOW ARROW DISPLAYED TOGETHER WITH A CIRCULAR RED.
 - TERMINATION OF PHASES 1, 3, 5, OR 7 ALONE IN PHASES 1+6, 3+8, 2+4, OR 4+7 SHALL BE WITH A YELLOW ARROW DISPLAYED TOGETHER WITH A CIRCULAR GREEN WHEN FOLLOWED BY A PRIORITY LANE INTERVAL WHICH DISPLAYS THE CIRCULAR GREEN.
 - TERMINATION OF PHASES 1+6, 3+8, 2+5, OR 4+7 SHALL BE WITH A CIRCULAR YELLOW DISPLAY WHEN FOLLOWED BY A PRIORITY LANE INTERVAL WHICH DISPLAYS A CIRCULAR RED.

- TERMINATION OF PHASES 2+6 OR 4+8 SHALL BE WITH A CIRCULAR YELLOW WHEN FOLLOWED BY A PRIORITY LANE INTERVAL WHICH DISPLAYS A CIRCULAR RED. WHEN PHASE 2+6 OR 4+8 CIRCULAR GREEN IS TO BE DISPLAYED IN THE PRIORITY LANE INTERVAL, IT SHALL REMAIN GREEN.
- TERMINATION OF ALL PRIORITY INTERVALS SHALL INCLUDE FULL FLASHING "DON'T WALK" CLEARANCE INTERVAL.
- TERMINATION OF ALL PRIORITY INTERVALS SHALL BE WITH A CIRCULAR YELLOW EXCEPT WHEN THE GREEN DISPLAYED DURING THE PRIORITY INTERVAL IS TO REMAIN GREEN WHEN THE NORMAL SEQUENCE OF OPERATIONS RESUMES CONTROL OF THE INTERSECTION.
- IF ALL RED CLEARANCE IS USED IN THE NORMAL SEQUENCE OF OPERATIONS, IT MUST BE DISPLAYED AFTER THE YELLOW CLEARANCE INTERVAL WHEN ENTERING OR LEAVING THE PRIORITY SEQUENCE.

FILE NAME = 06508-SGNL-05 - P02

USER NAME =	DESIGNED - WPD	REVISED -
PLOT SCALE = 1=1	CHECKED - WPD	REVISED -
PLOT DATE = 10-14-10	DRAWN - AG	REVISED -
	CHECKED - AG	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CABLE PLAN		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
171ST STREET AND HARLEM AVENUE		348	06-00104-00-CH	COOK	80	43
SCALE: N/A	SHEET NO. 43 OF 80 SHEETS	STA. N/A	TO STA. N/A	CONTRACT NO. 63453		

FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT #HSIP-8003 (851)
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