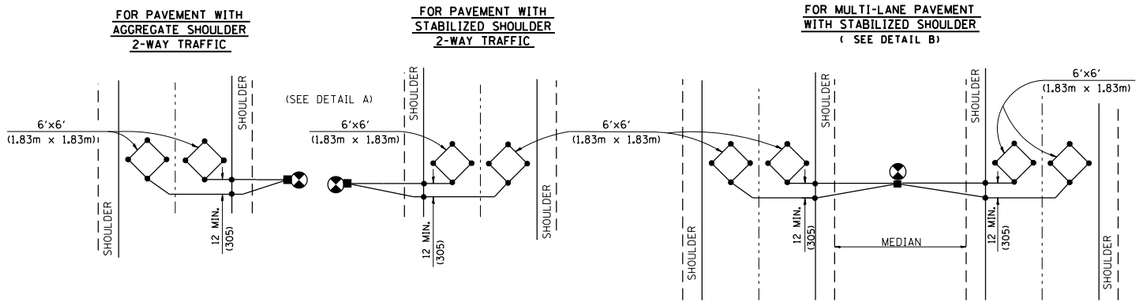
TYPICAL APPLICATIONS FOR TRAFFIC COUNTER USING TERMINAL FACILITY



LEGEND

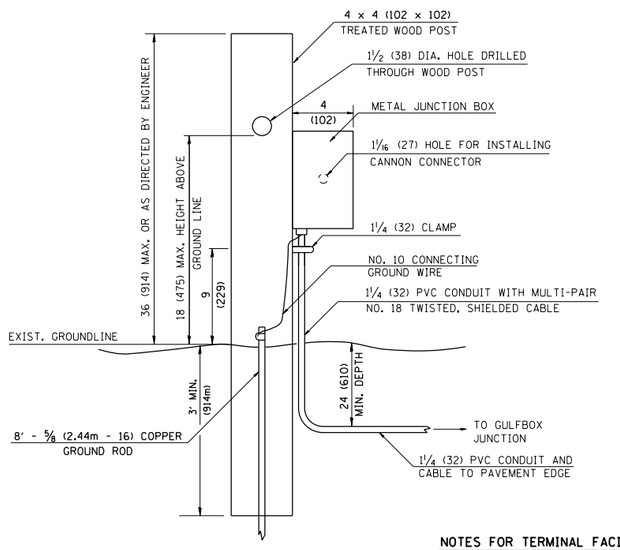
- 4 x 4 (102 x 102) TREATED WOOD POST
- TERMINAL FACILITY
- INDICATES 1½ (38) HOLE DRILLED AT DETECTOR LOOP CORNER

SCHEDULE OF QUANTITIES		
ITEM	QUANTITY	UNIT
DETECTOR LOOP, SPECIAL		FEET
CONDUIT IN TRENCH, 30 mm DIA., PVC		FEET
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO.18 3 PAIR		FEET
TRENCH AND BACKFILL FOR ELECTICAL WORK		FEET
TRENCH AND BACKFILL FOR ELECTICAL WORK (SPECIAL)		FEET
TERMINAL FACILITY		EACH
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO.18 6 PAIR		FEET

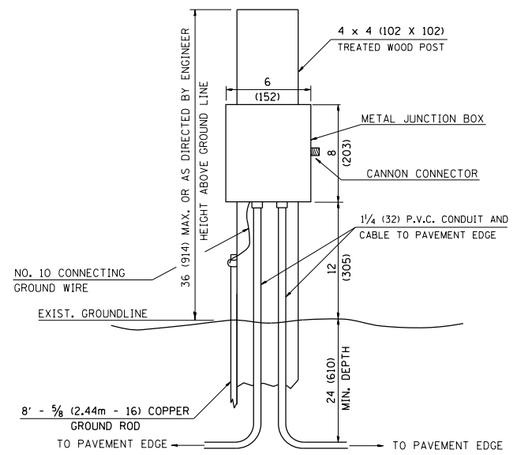
GENERAL NOTES

1. EACH DETECTOR LOOP USED SHALL BE WIRED INDEPENDENTLY TO THE TERMINAL.
2. DIAMOND SHAPED LOOPS SHALL BE CENTERED IN THE PAVEMENT LANES.
3. EACH 6' X 6' (1.83M X 1.83M) DETECTOR LOOP SHALL HAVE A MINIMUM OF 4 OR 5 TURNS OF CABLE OR AS DIRECTED BY THE ENGINEER.
4. DETECTOR LOOPS MAY BE LOCATED AS DIAMONDS IN THE PAVEMENT AS DIRECTED BY THE ENGINEER. ALL LOOPS SHALL BE ORIENTED THE SAME DIRECTION.
5. THE RESIDENT ENGINEER AND OR CONTRACTOR SHALL NOTIFY THE TRAFFIC STUDIES TECHNICIAN IN PROGRAM DEVELOPMENT AT LEAST ONE WEEK PRIOR TO THE INSTALLATION TO DETERMINE EXACT LOCATION.
   CONTACT RON HEGWOOD PH # 309-693-5165

DETAIL A
TERMINAL FACILITY DETAIL



DETAIL B
TERMINAL FACILITY DETAIL

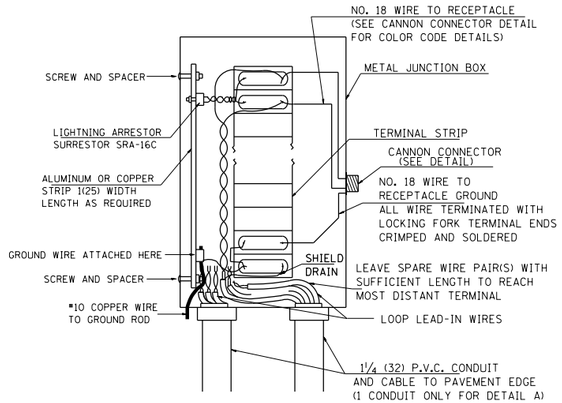


NOTES FOR TERMINAL FACILITY

1. GROUND ROD SHALL BE CONNECTED TO THE JUNCTION BOX WITH NO. 10 AWG COPPER WIRE AS SHOWN IN THE JUNCTION BOX DETAIL.
2. POST FOR TERMINAL FACILITY SHALL BE A MINIMUM DISTANCE OF____ FROM EDGE OF _____ .

LOCATION(S)

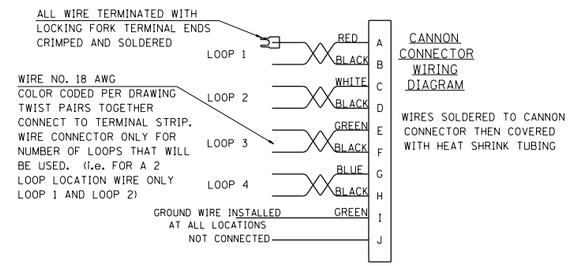
JUNCTION BOX DETAIL
FOR DETAIL A AND B

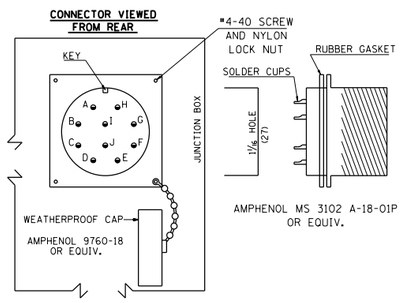


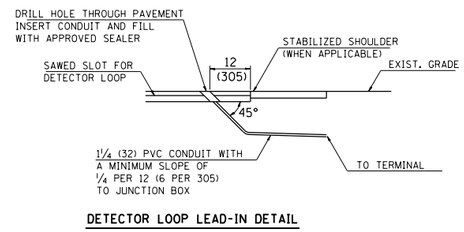
NOTES FOR JUNCTION BOX

1. ONE LIGHTNING ARRESTOR FOR EACH LOOP.
2. NUMBER OF TERMINALS ON TERMINAL STRIP TO BE DETERMINED BY NUMBER OF LOOPS. TERMINAL STRIP SHALL BE CINCH BARRIER TYPE 140 OR EQUIVALENT.
3. JUNCTION BOX SHALL BE WEATHER PROOF WITH SIZE DETERMINED BY NUMBER OF COMPONENTS. JUNCTION BOX SHALL BE A MINIMUM 4x6x8 (102x152x203) METAL HOFFMAN BOX WITH KEY ENTRY OR EQUIVALENT.
4. TERMINAL WITH MORE THAN 4 LOOPS WILL REQUIRE THE USE OF 2 CANNON CONNECTORS WITH LOOPS GROUPED BY DIRECTION OR AS DIRECTED BY THE ENGINEER.
5. THE COST OF INSTALLING THE TERMINAL FACILITY INCLUDES ALL VERTICAL WIRING, BOXES, CONNECTORS, VERTICAL CONDUIT, POST, GROUND ROD, SURRESTORS, AND LABOR, AND SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH FOR TERMINAL FACILITY.
6. THE METAL MOISTURE-PROOF MOUNTING BOX SHALL BE HINGED AND HAVE A KEYED ENTRY.

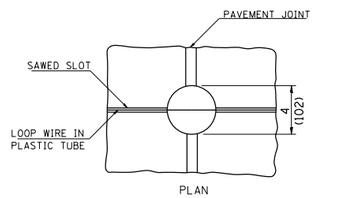
CANNON CONNECTOR DETAIL

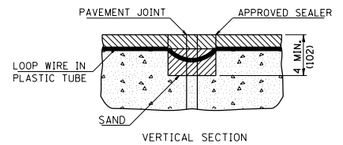






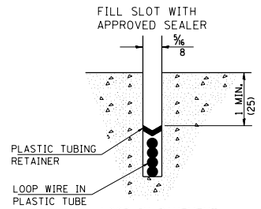
DETECTOR LOOP LEAD-IN DETAIL





NOTE: LOOP WIRE MUST FOLLOW SAW CUT TO BOTTOM, FORMING SLACK SECTION AT JOINT.

DETECTOR LOOP DETAIL AT PAVEMENT JOINT OR PAVEMENT CRACK



DETECTOR LOOP INSTALLATION

All dimensions are in inches (millimeters) unless otherwise noted.

DESIGNER NOTES:
1. Include District Special Provisions.
2. Check with Programing Section John Fentem.

03-01-97	NEW DETAIL	J.A.		06-17-99	ADD TO GENERAL NOTES	R.H.	**STATE OF ILLINOIS**	**DETAIL FOR TRAFFIC COUNTERS USING TERMINAL FACILITY**	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
03-21-97	CORRECT REF. TO SI CONC.	J.A.		06-09-00	REMOVE GULFBOX	R.H.	**DEPARTMENT OF TRANSPORTATION**						
09-10-97	ADD REF. TO METAL BOX	E.T.		10-16-06	REVISED TO 2007 SPEC.	M.A.					CONTRACT NO.		
07-31-98	CORRECT LEGEND & DIM.	R.H.		8-8-12	REVISED NOTES	R.D.		NOT TO SCALE CADD STD. 836002-D4	FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		