

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS		0	0	

MAJOR EQUIPMENT

The flasher controller shall be two-circuit, solid state, in a weatherproof aluminum cabinet with a radio interference filter.

The flashing beacon(s) shall be one section, adjustable, polycarbonate, vertical bracket mounted, with a 12" yellow or red lens.

The traffic signal lamp(s) shall be 150 Watt, 120 Volt, A21 Clear Lamp(s) of 6000 hour (min.) life rating guaranteed by the manufacturer.

The conductor shall be no. 14 AWG, 3/c traffic signal cable for operation at 600 Volt maximum, and suitable for use at conductor temperatures not exceeding 75 degrees celsius. Insulation shall consist of a 20 mil Poly-ethylene insulation with a 10 mil Polyvinyl Chloride (PVC) insulation convering and an overall jacket of PVC.

The metallic conduit shall be rigid steel conduit meeting the requirements of ASTM C-80-1.

The non-metallic conduit shall be rigid Polyvinyl Chloride (PVC) meeting the requirements of the latest federal specification L-P-1036A.

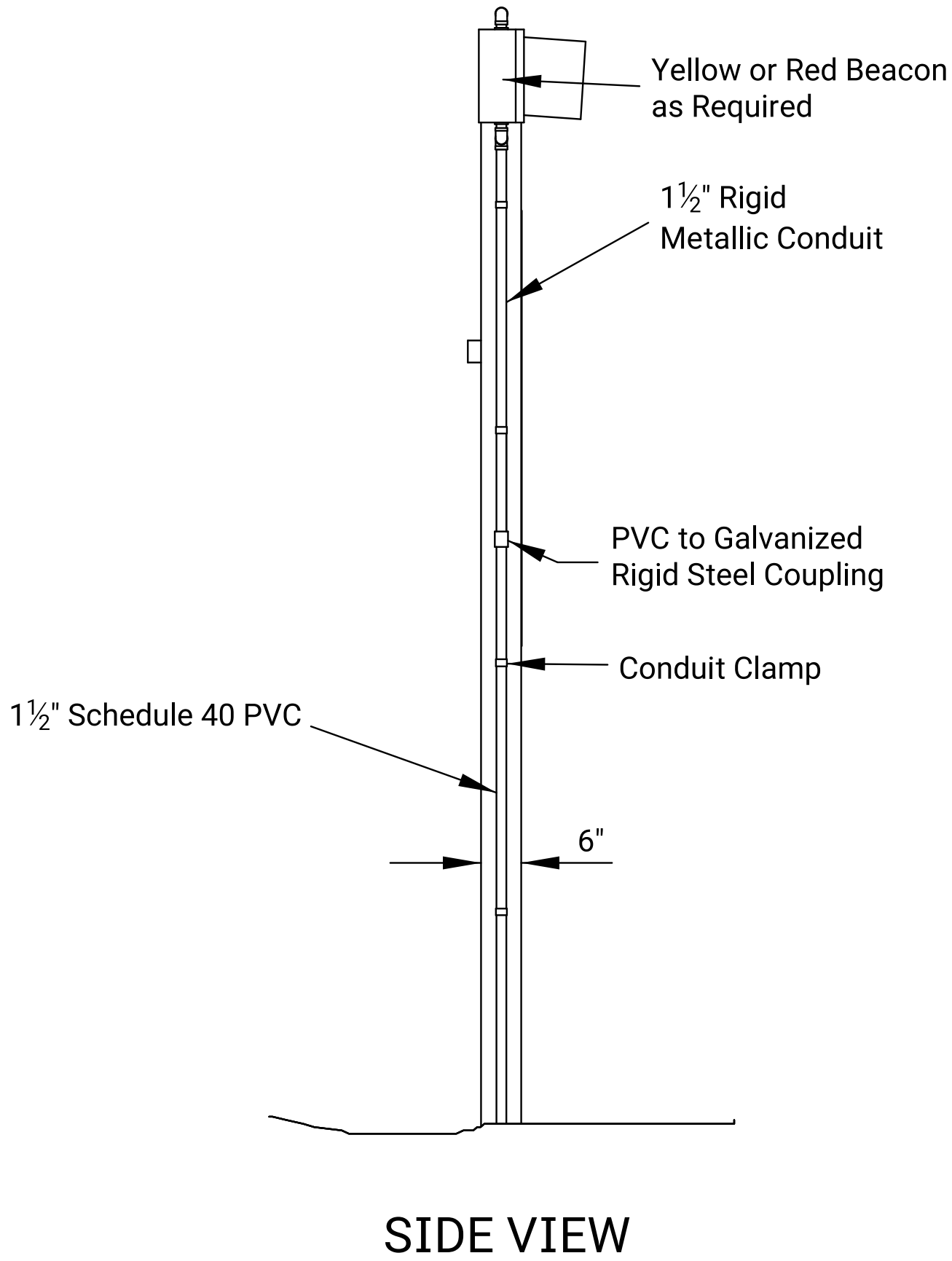
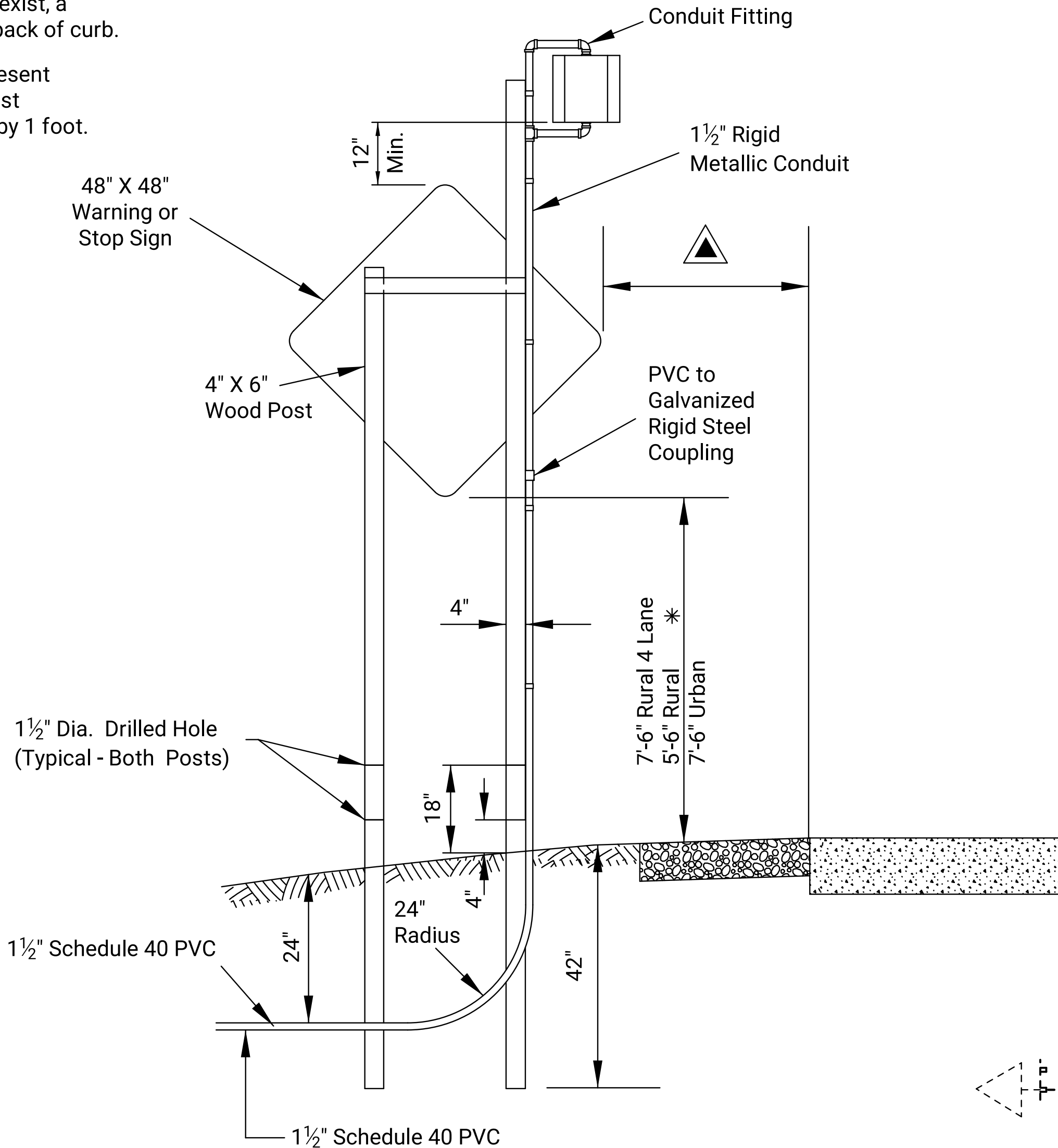
Junction boxes shall be concrete or fiberglass reinforced polymer concrete, 12" deep and having approximately 144 sq. inch opening.



Minimum of 12' from edge of shoulder, or edge of traveled way. If curb & gutter exist, a minimum of 2' from back of curb.



If advisory plate is present the height of the lowest sign may be reduced by 1 foot.



GENERAL NOTES

Alternative methods of mounting the beacons may be used with prior approval of the Engineer.

The flasher device shall be capable of causing the beacon to flash at a rate of not less than 50, nor more than 60, times per minute.

The illumination period of each flash shall be approximately equal to the non-illuminated period.

The illuminated element, lens, reflector, and visor shall each be of such design as to render the lens, when illuminated, clearly visible from 10 to 1000 feet under all atmospheric conditions except dense fog, both day and night.

Beacon visors and doors shall be dull black. Beacon housing shall be traffic yellow. The lenses shall have a visible diameter of 12 inches.

Power supply at controller terminals shall be 120 Volts, single phase, 60 cycle AC.

The controller and each sign / beacon assembly shall be grounded by running a #6 AWG bare copper wire from the equipment to a 3/4" * 10' - 0" ground rod. The wire shall be attached to the ground rod using an approved ground rod clamp.

Trenching for conduit will not be permitted through existing pavement. Jacking will not be permitted in District One unless approved by the Engineer.

On mult-lane divided facilities, beacons shall be mounted on both the right and left sides of the roadway, and shall be flashed at alternate intervals.

Beacons shall be mounted on the traffic side of the signs.

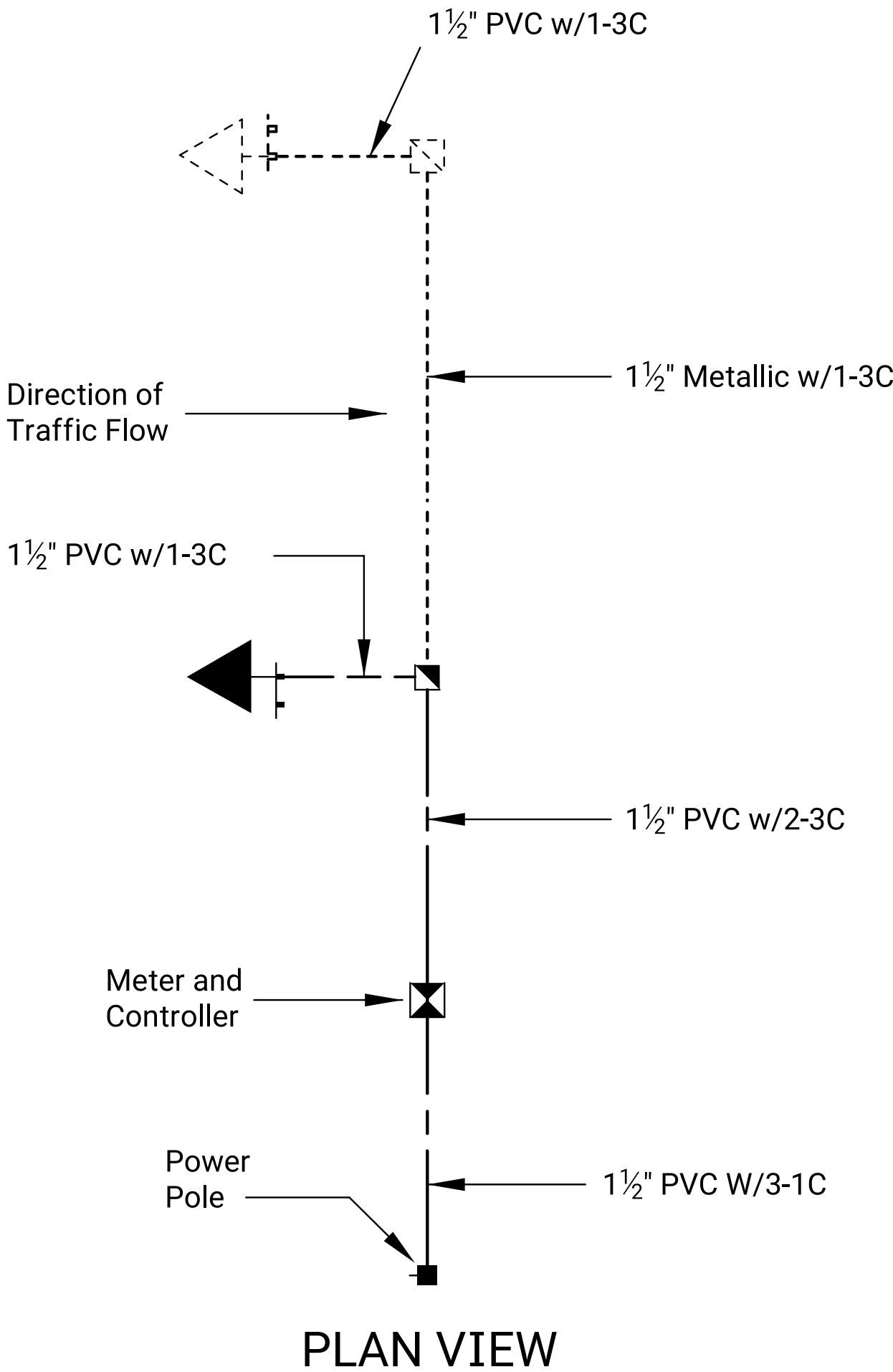
Power hook-up shall be coordinated with the power company. The contact person is _____, Phone No. _____. The hook-up fees of \$ _____ per power drop will be the responsibility of the contractor.

BACK VIEW

BILL OF MATERIALS

12" One-Way Flashing Beacon
Controller & Cabinet
150 Watt Traffic Signal Lamp
1 1/2" Metallic Conduit
1 1/2" PVC Conduit
Conduit Fittings
1 1/2" Conduit Clamp
Mounting Hardware
#6 AWG Copper Ground Wire
#6 AWG Lead-in Wire 1/c
Multi-Conductor Cable 3/c
Meter Base
Junction Box
20 Amp Circuit Breaker
Ground Rod and Clamp
Wood Post (4" X 6")
Sign

Each
Each
Each
Lin Ft
Lin Ft
As Req'd
As Req'd
As Req'd
Lin Ft
Lin Ft
Each
Each
Each
Each
Lin Ft
Each



NO.	DATE	REVISIONS	BY	APPD	
KANSAS DEPARTMENT OF TRANSPORTATION					
BEACON INSTALLATION DETAIL SHEET					
TE180					
FHWA APPROVAL		04-29-03		APPD.	
DESIGNED	L.G.V.	DETAILED	J.F.F.	QUANTITIES	TRACED
DESIGN CK.		DETAIL CK.	G.J.O.	QUAN.CK.	TRACE CK.