

1. Traffic monitoring site cabinet includes:

A. One adjustable shelf; (equipped as shown)

B. One backplane ass'y;

C. One J1 receptacle with mounting bracket;

D. All associated wiring and wiring harnesses.

2. Basic backplane assembly consists of:

A. Two inductive loop terminal strips;

B. One vehicle sensor terminal strip;

C. One battery terminal strip;

D. One solar panel terminal strip.

* The contractor shall be responsible for contacting the FDOT planning office for lane number information and verification.

CABINET LAYOUT DETAIL (For Up To Four Lanes)

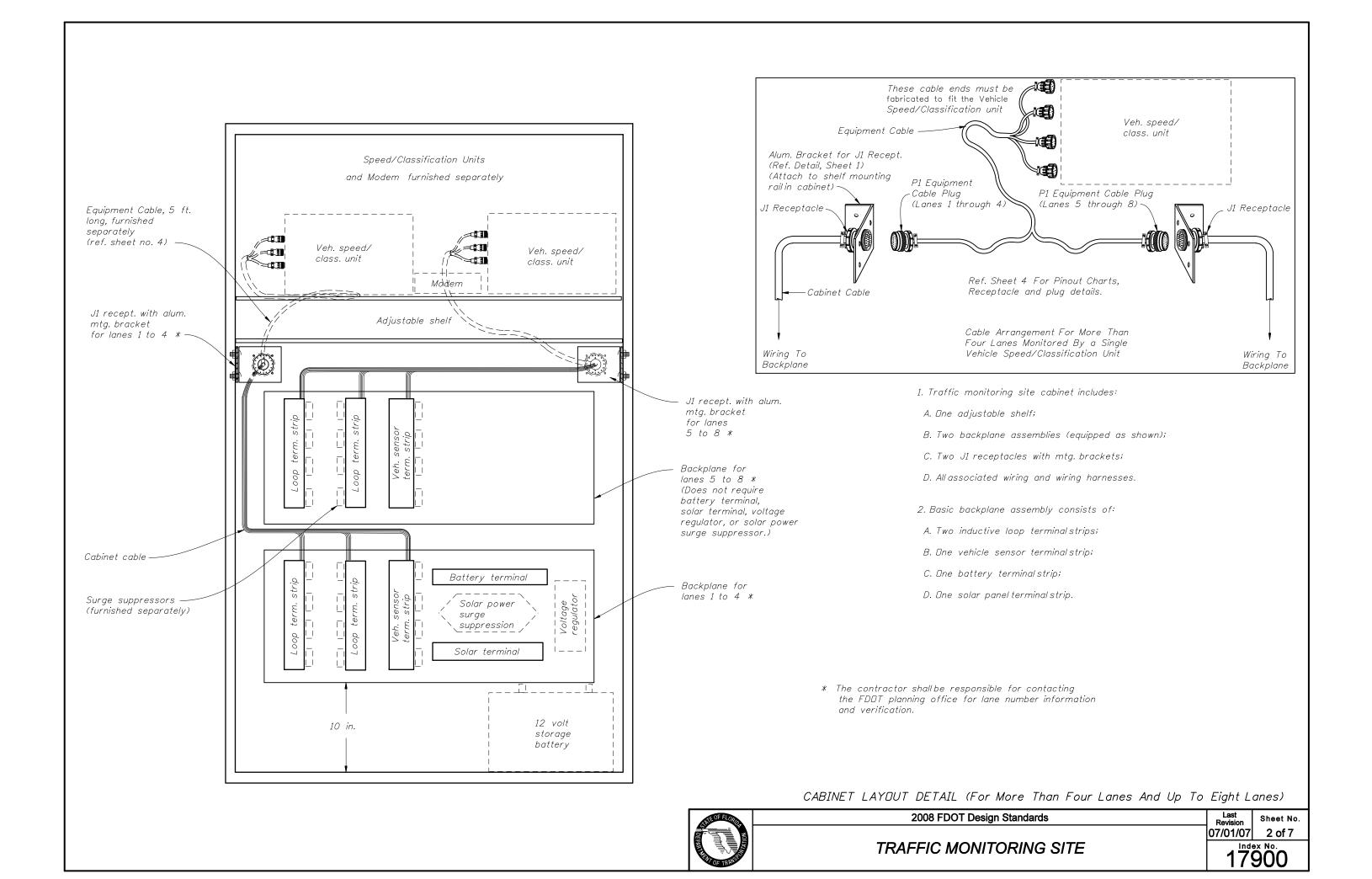


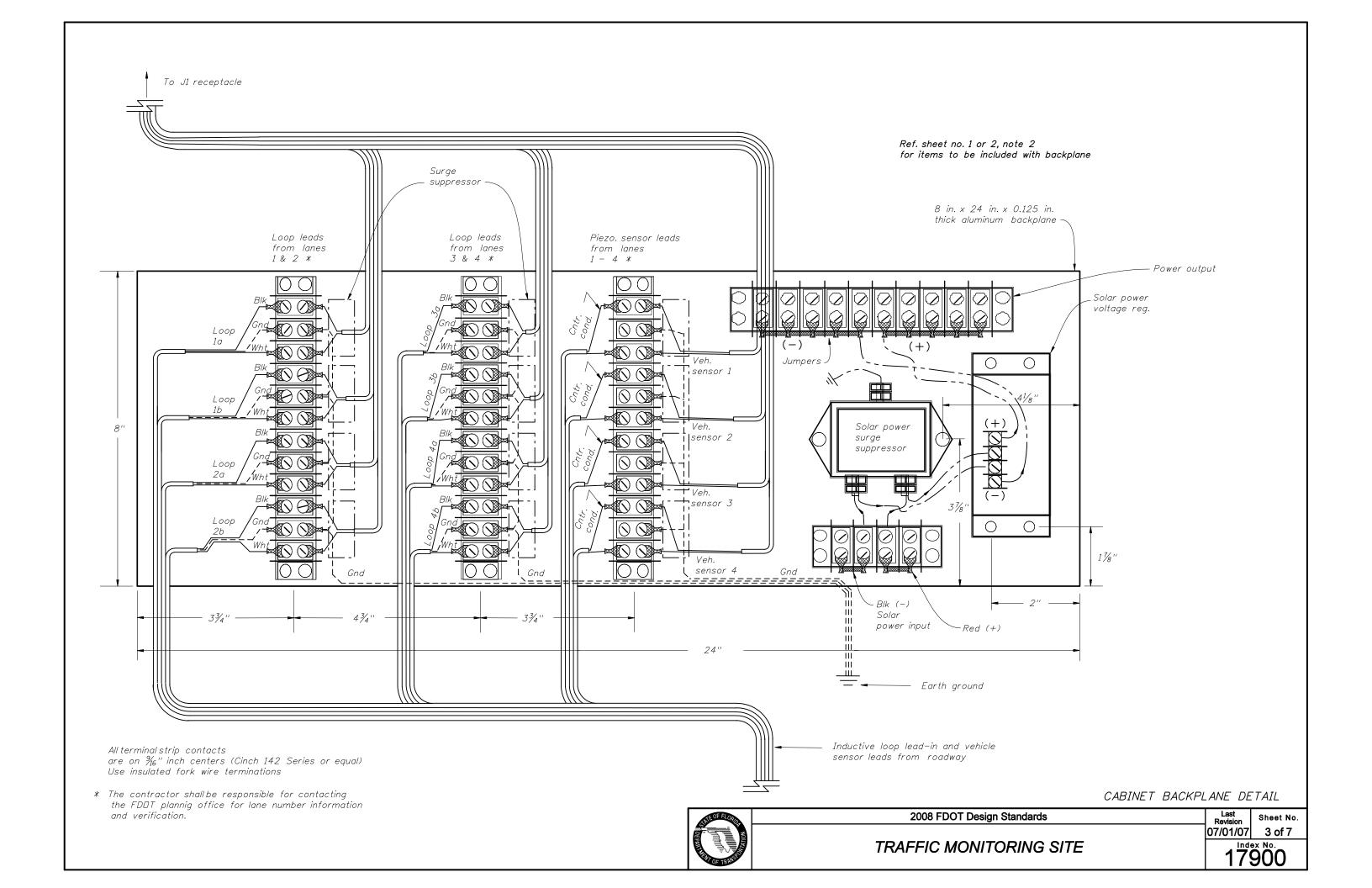
Backplane for

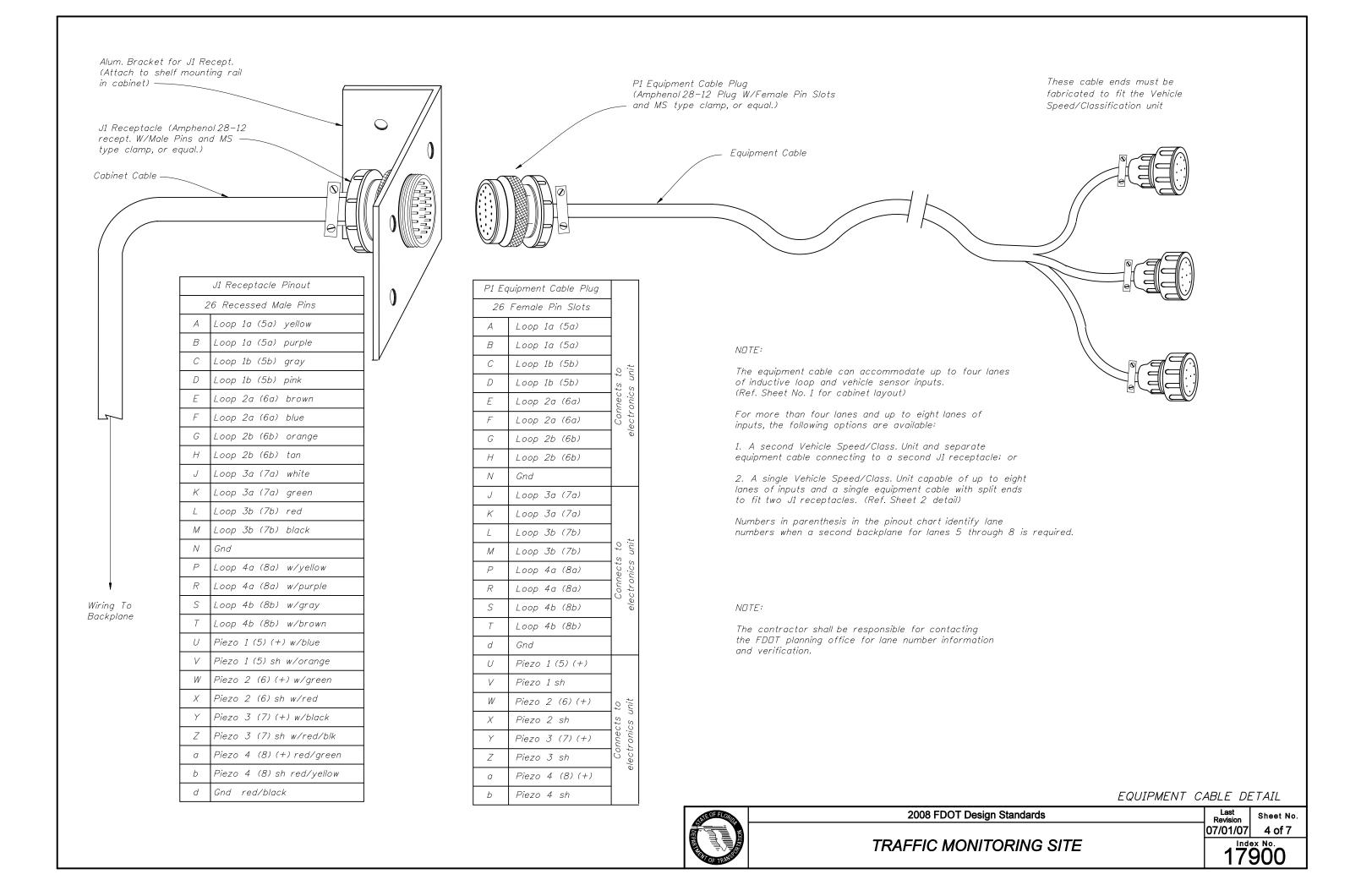
lanes 1 to 4 *

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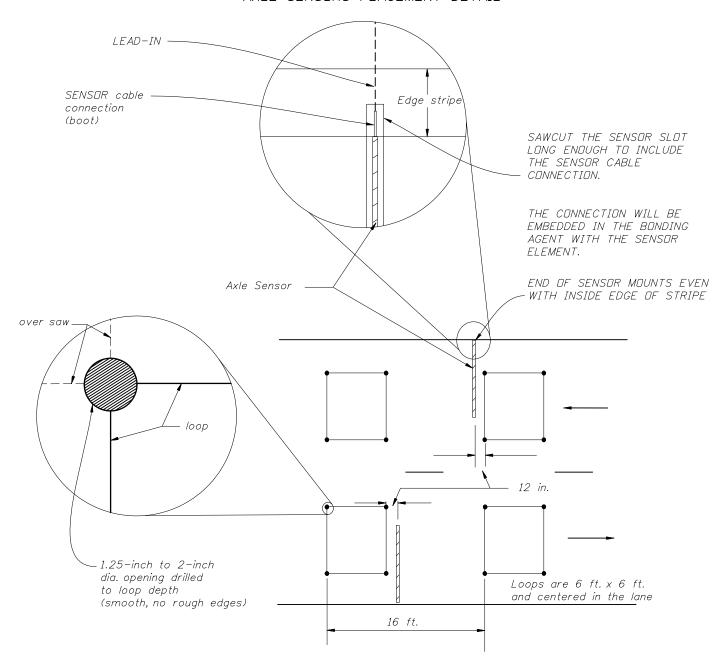
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SPEED/CLASSIFICATION LOOP ASSEMBLY WITH AXLE SENSORS PLACEMENT DETAIL



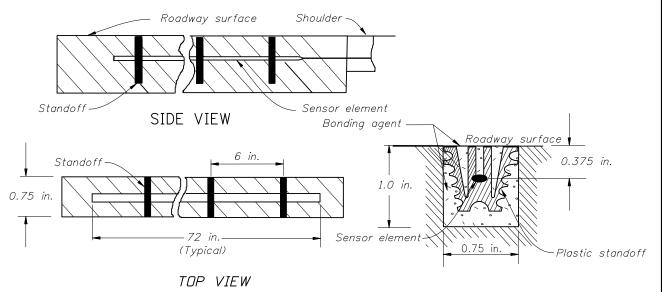
Note:

Loop slots shall be 0.25 inches wide (max.) by 1.5 inches to 2 inches deep. Four turns of #12 AWG, type XHHW stranded copper wire shall be placed in the slot. Backer rod shall be used to hold the loop wire in the bottom of the slot.

Loop leads shall be twisted at the rate of 10 to 12 twists per foot. The twisted pair shall extend to the pull box with three feet of spare length coiled in the pull box.

The contractor shall be responsible for contacting the FDDT office for lane number information and verification. All leads shall be labeled with permanent marker to indicate their lane number and position. For example: The leading loop in lane 1 is marked as "1A". The trailing loop (if present) is marked as "1B". The axle sensor (if present) is marked as "P1". And so on for all lanes.

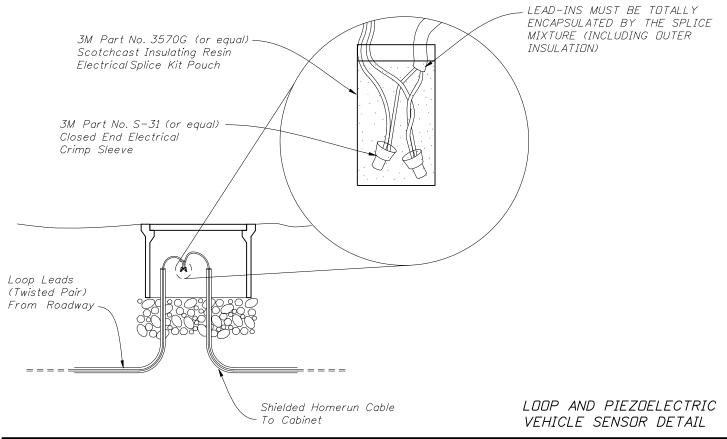
TYPICAL UNENCAPSULATED CLASS II VEHICLE SENSOR



END VIEW

Note:
These are typical dimensions. actual dimensions, element cross-sections and standoffs may vary depending on manufacturer and model.

LOOP WIRE / HOMERUN CABLE SPLICES



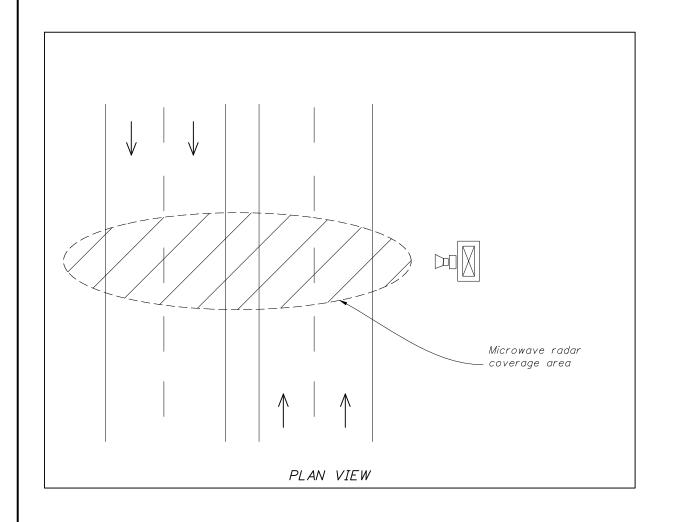


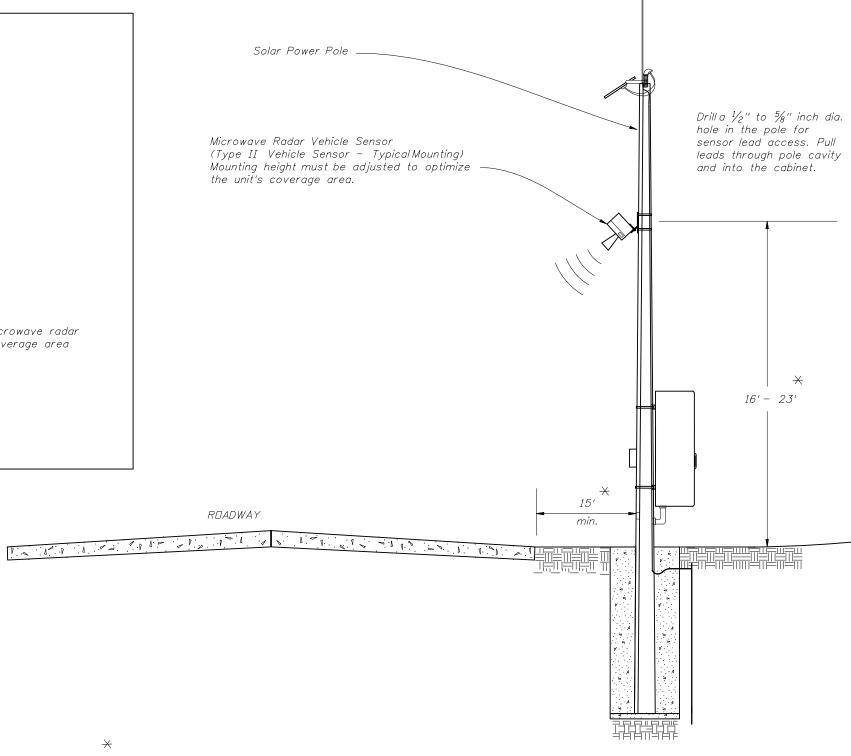
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The unit must be capable of detecting up to eight lanes of traffic (in either or both directions) when mounted perpindicular to the roadway.

Coverage area of the unit is affected by the roadway geometry: distance from the travellanes, median type and width, barrier walls, etc.

Mounting height of the unit and offset from the roadway must be determined on a site-by-site basis, in accordance with the manufacturer's recommended guidlines and existing clear zone requirements.

TYPE II VEHICLE SENSOR MICROWAVE RADAR



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Note: Cabinet installed per Index 17841 except cabinet center will be 4 feet above grade. Lightning rod (0.5 in. x 36 in.) 2.5 in. weatherhead 2.5 in. weatherhead (2.875 in. od) mounted on the tenon Solar panel(s) mounted on the tenon (2.5 in. id threaded Lightning rod (2.875 in. od threaded galvanized steelpipe (0.5 in. x 36 in.) galvanized steelpipe cast into pole) cast into pole) Solar panel(s) in. (min.) θ ° = Latitude at location + 10° No. 4 awg. stranded bare copper wire (cast in pole) bonded to lightning rod and No. 4 awg. stranded bare ground rod. θ ° = Latitude at location + 10° copper wire (cast in pole) Modified bonded to lightning rod and Type N-III ground rod. TYPE III concrete pole Modified CABINET (Ref. Sec. 744) -Type N-III concrete pole (Ref. Sec. 744) 4 in. I.D. aluminum pole Telco service box — 4 ft. to center Telephone co. 30 ft. of cabinet service box -4 in. x 6 in. handhole w/cover. Cut 60° with 4 in. x 6 in. respect to bottom holes. Aluminum square basehandhole w/cover. Cut assembly with plastic 90° with respect to Weatherhead (1 in. min.) 4 ft. access door Pull box phone line to cabinet Pull box (ref. Index 17721) (ref. Index 17721) 6 in. min. 2.5 To roadway Telephone co. -0.625 in. X 40 ft. Telco service line To roadway ____ service line copper clad ground rod 8 ft. 8 ft. 3 in. x 5 in. 3 in. x 5 in. with clamp conduit entry hole conduit entry 0.625 in. x 40 ft. (min.) hole copper clad ground rod 0.625 in. x 20 ft. (min.) with clamp copper clad ground rod with clamp 3 ft. PEDESTAL MTD. CABINET Cabinet and pole will be 10 ft. 3 ft. apart unless otherwise specified in the plans 0.625 in. x 40 ft. (min.) copper clad ground rod w/clamp SOLAR POWER POLE WITH BASE MTD. CABINET SOLAR POWER POLE WITH POLE MTD. CABINET Wire for Solar Panel Array installations shall be #10 AWG stranded copper, Red insulation

is THHN or THWN for positive 12 volts wiring, Black insulation is THHN or THWN for negative, 12 volts wiring, Green insulation is THHN or THWN for ground bonding of the solar panel frame to the pole and earth.

Pole placement shall be in accordance with section 125.4 and 125.8.2.

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SOLAR POWER POLE DETAIL