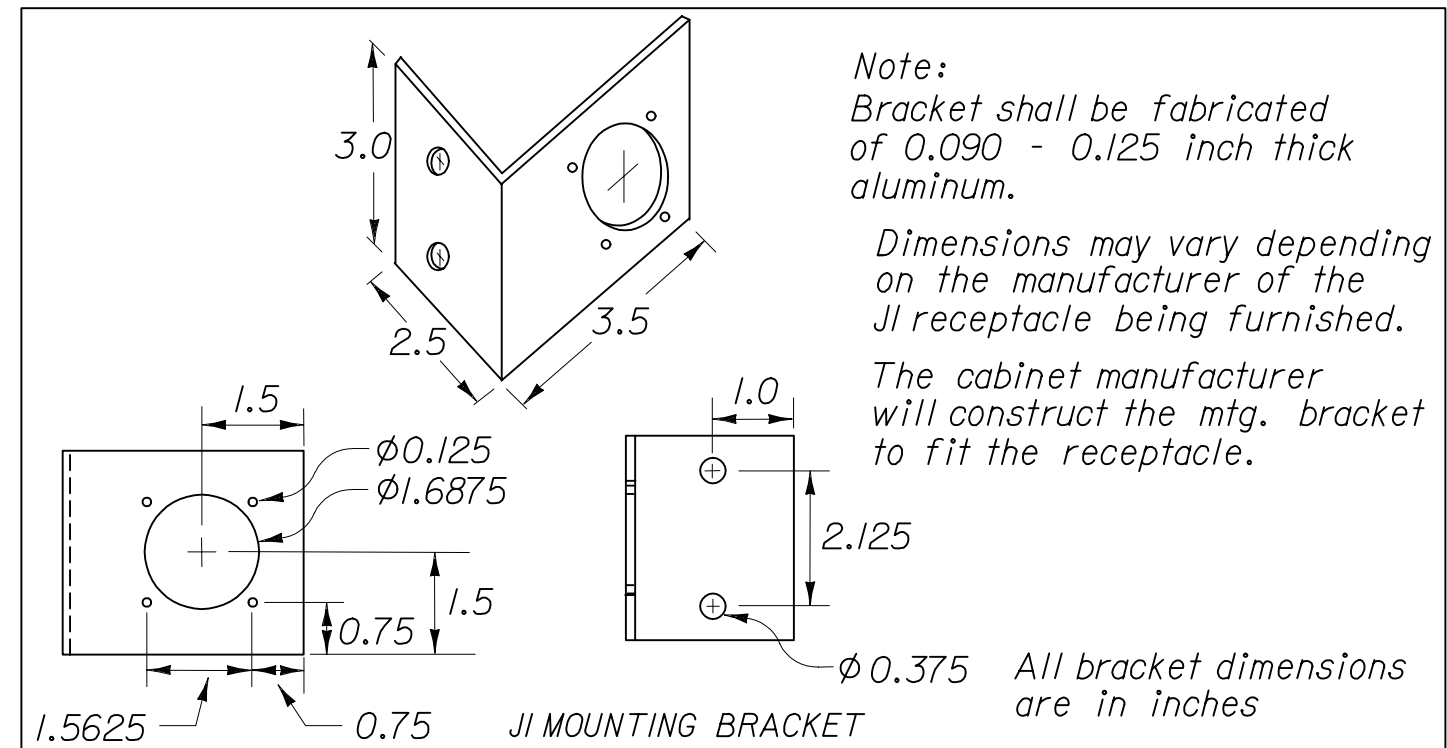
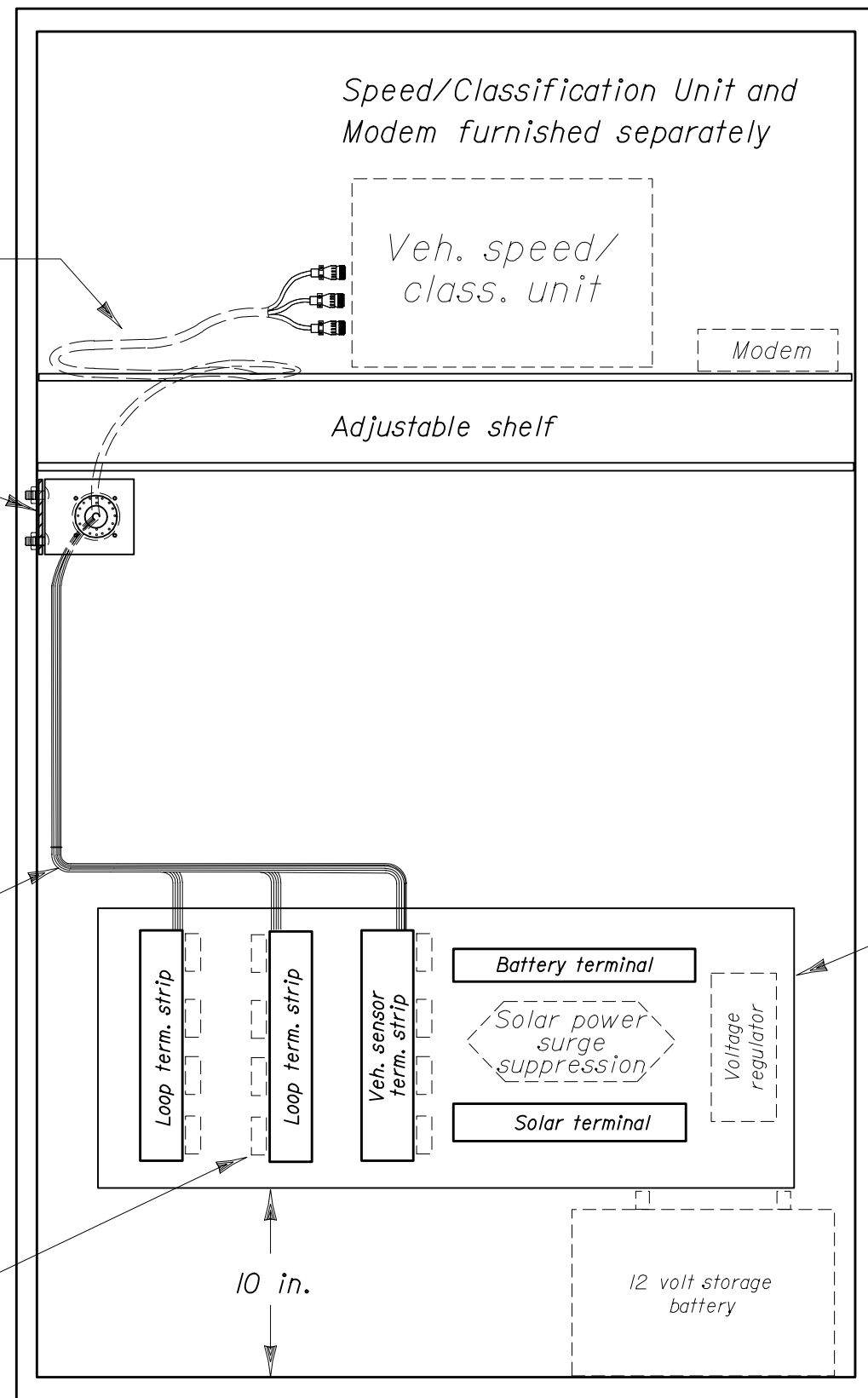


Equipment Cable, 5 ft. long, furnished separately (ref. sheet no. 4)

J1 recept. with alum. mtg. bracket for lanes 1 to 4

Cabinet cable

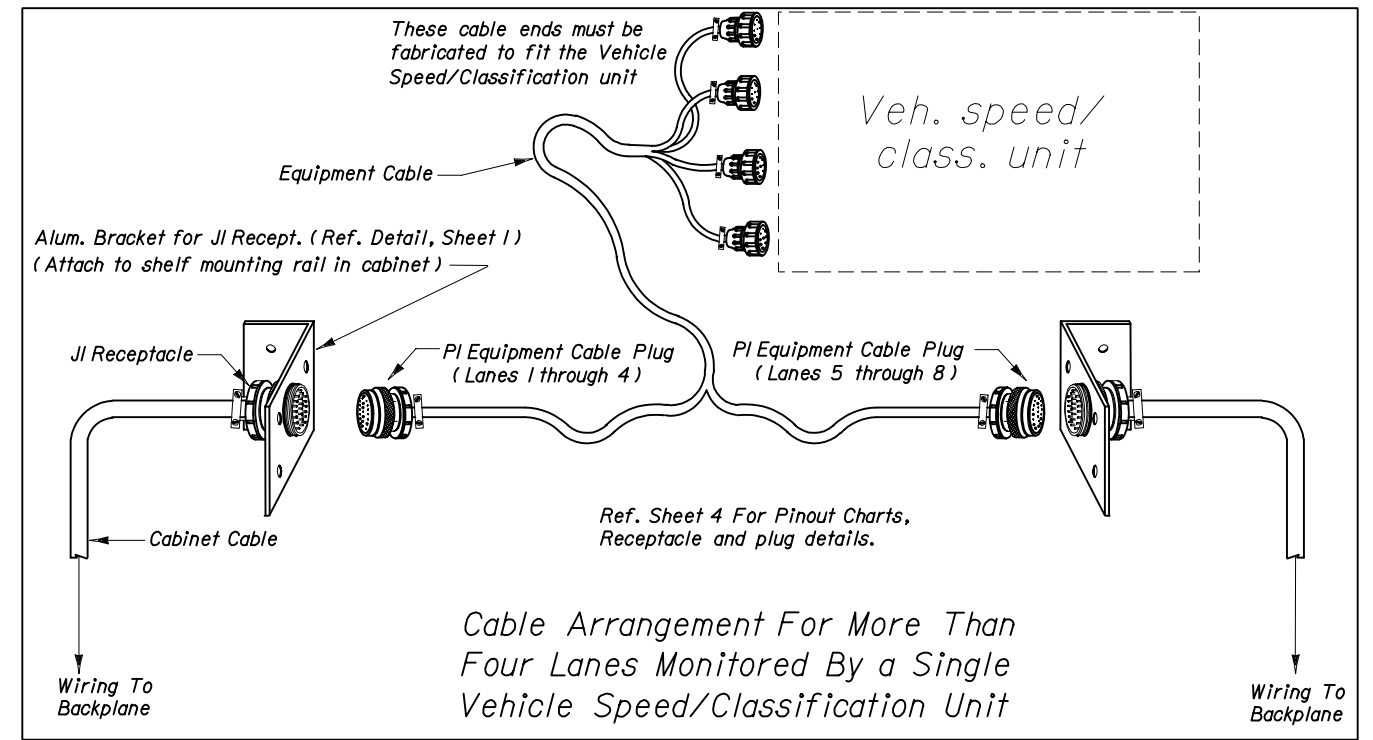
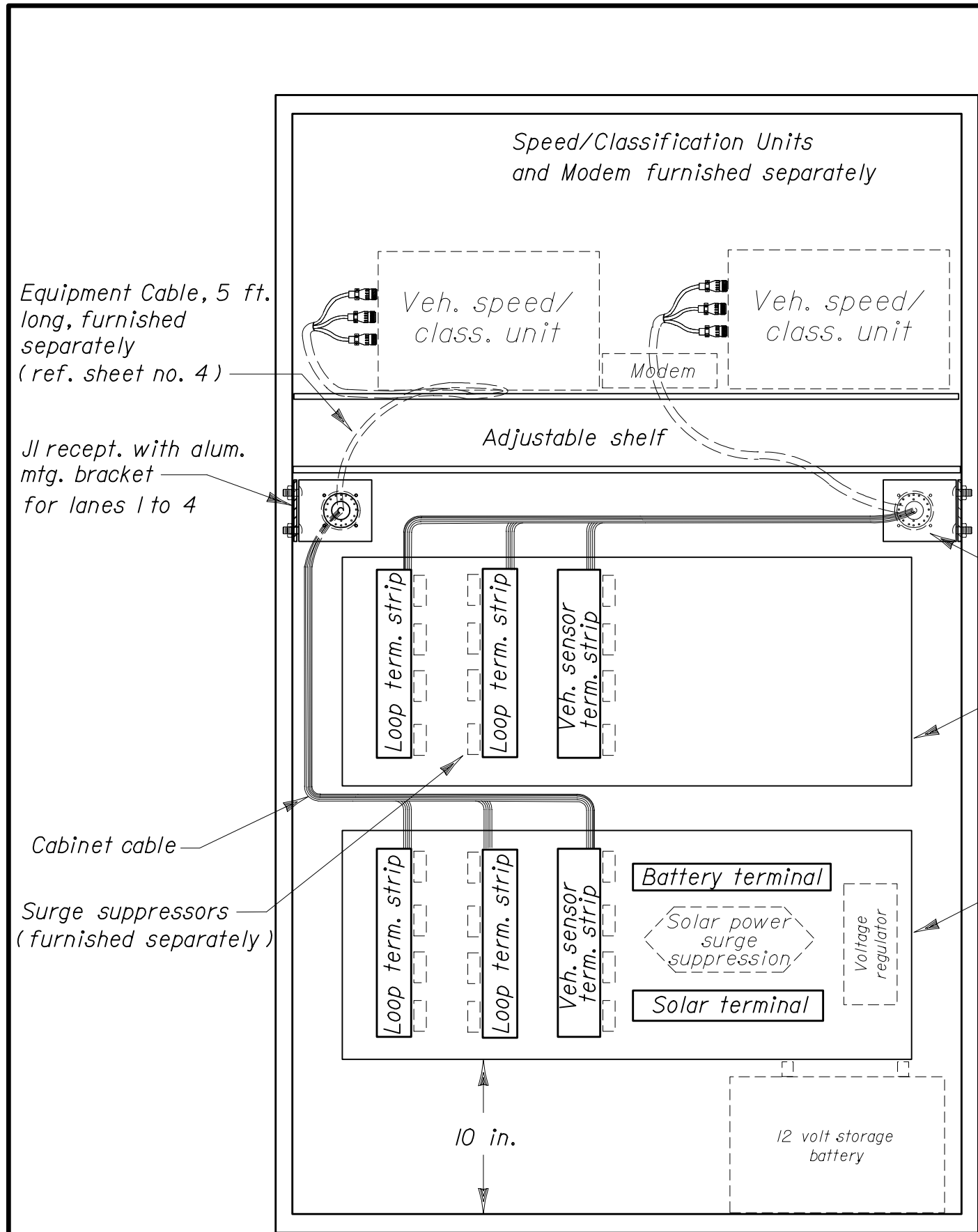
Surge suppressors (furnished separately)



1. Traffic monitoring site cabinet includes:
 - A. One adjustable shelf;
 - 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.

CABINET LAYOUT DETAIL
(For Up To Four Lanes)

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Equipment Cable, 5 ft. long, furnished separately (ref. sheet no. 4)

JI recept. with alum. mtg. bracket for lanes 1 to 4

Cabinet cable

Surge suppressors (furnished separately)

JI recept. with alum. mtg. bracket for lanes 5 to 8

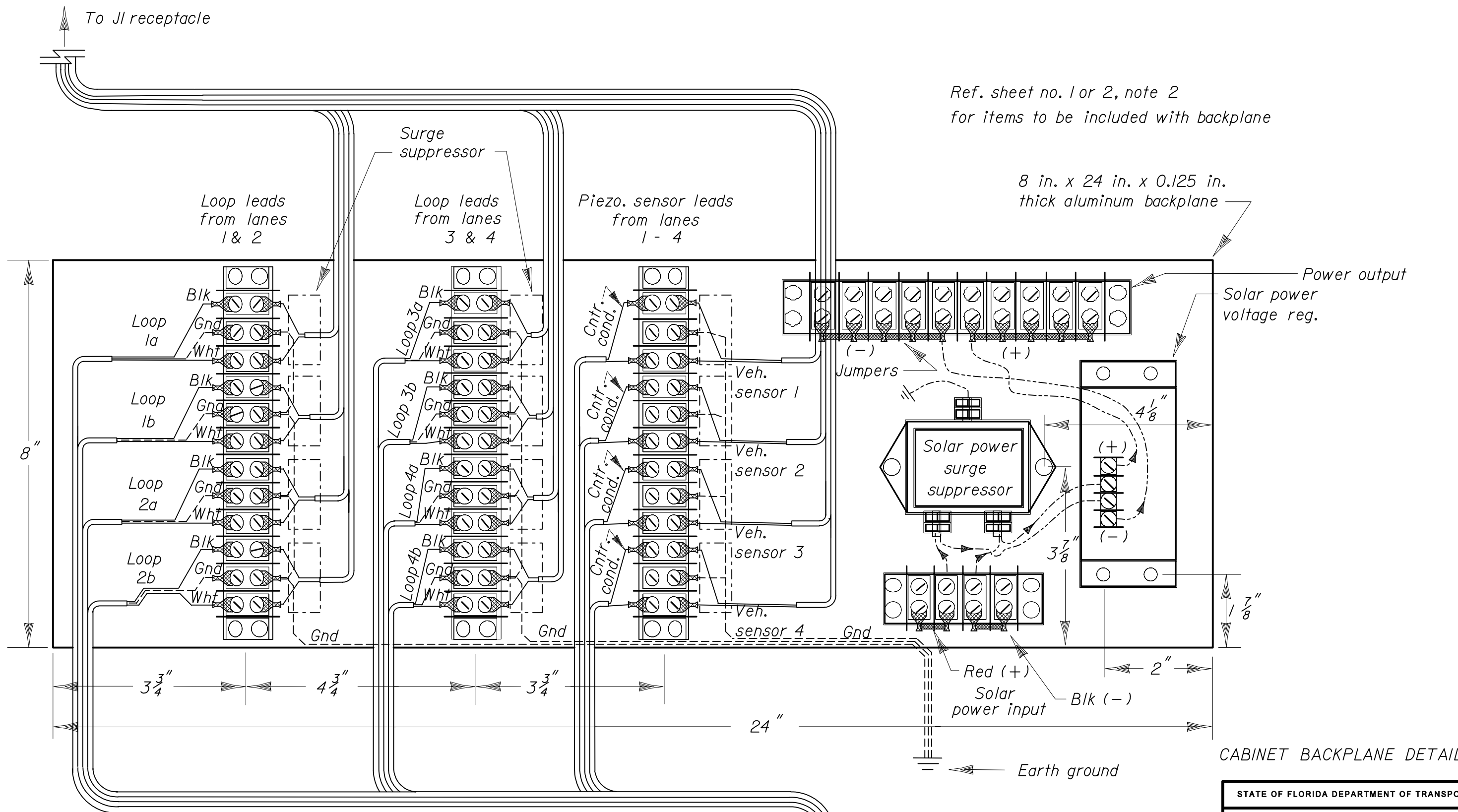
Backplane for lanes 5 to 8 (Does not require battery terminal, solar terminal, voltage regulator, or solar power surge suppressor.)

Backplane for lanes 1 to 4

1. Traffic monitoring site cabinet includes:
 - A. One adjustable shelf;
 - B. Two backplane assemblies (equipped as shown);
 - C. Two JI receptacles with mtg. brackets;
 - 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.

CABINET LAYOUT DETAIL
(For More Than Four Lanes And Up to Eight Lanes)

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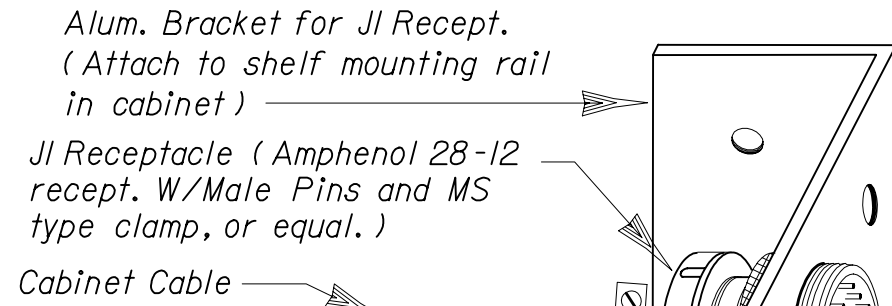


All terminal strip contacts are on 9/16 inch centers (Cinch 142 Series or equal) Use insulated fork wire terminations

Inductive loop lead-in and vehicle sensor leads from roadway

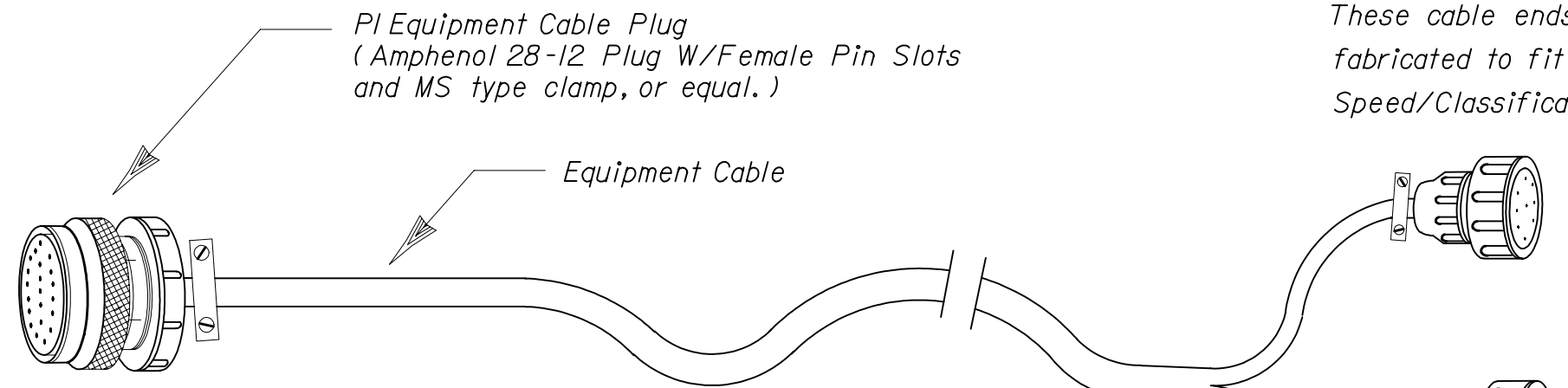
CABINET BACKPLANE DETAIL

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J1 Receptacle Pinout	
26 Recessed Male Pins	
A	Loop 1a (5a) yellow
B	Loop 1a (5a) purple
C	Loop 1b (5b) gray
D	Loop 1b (5b) pink
E	Loop 2a (6a) brown
F	Loop 2a (6a) blue
G	Loop 2b (6b) orange
H	Loop 2b (6b) tan
J	Loop 3a (7a) white
K	Loop 3a (7a) green
L	Loop 3b (7b) red
M	Loop 3b (7b) black
N	Gnd
P	Loop 4a (8a) w/yellow
R	Loop 4a (8a) w/purple
S	Loop 4b (8b) w/gray
T	Loop 4b (8b) w/brown
U	Piezo 1(5) (+) w/blue
V	Piezo 1(5) sh w/orange
W	Piezo 2 (6) (+) w/green
X	Piezo 2 (6) sh w/red
Y	Piezo 3 (7) (+) w/black
Z	Piezo 3 (7) sh w/red/blk
a	Piezo 4 (8) (+) red/green
b	Piezo 4 (8) sh red/orange
d	Gnd red/black

Wiring To Backplane



PI Equipment Cable Plug	
26 Female Pin Slots	
A	Loop 1a (5a)
B	Loop 1a (5a)
C	Loop 1b (5b)
D	Loop 1b (5b)
E	Loop 2a (6a)
F	Loop 2a (6a)
G	Loop 2b (6b)
H	Loop 2b (6b)
N	Gnd
J	Loop 3a (7a)
K	Loop 3a (7a)
L	Loop 3b (7b)
M	Loop 3b (7b)
P	Loop 4a (8a)
R	Loop 4a (8a)
S	Loop 4b (8b)
T	Loop 4b (8b)
d	Gnd
U	Piezo 1(5) (+)
V	Piezo 1 sh
W	Piezo 2 (6) (+)
X	Piezo 2 sh
Y	Piezo 3 (7) (+)
Z	Piezo 3 sh
a	Piezo 4 (8) (+)
b	Piezo 4 sh

Connects to electronics unit

NOTE:

The equipment cable can accommodate up to four lanes of inductive loop and vehicle sensor inputs. (Ref. Sheet No. 1 for cabinet layout)

For more than four lanes and up to eight lanes of inputs, the following options are available:

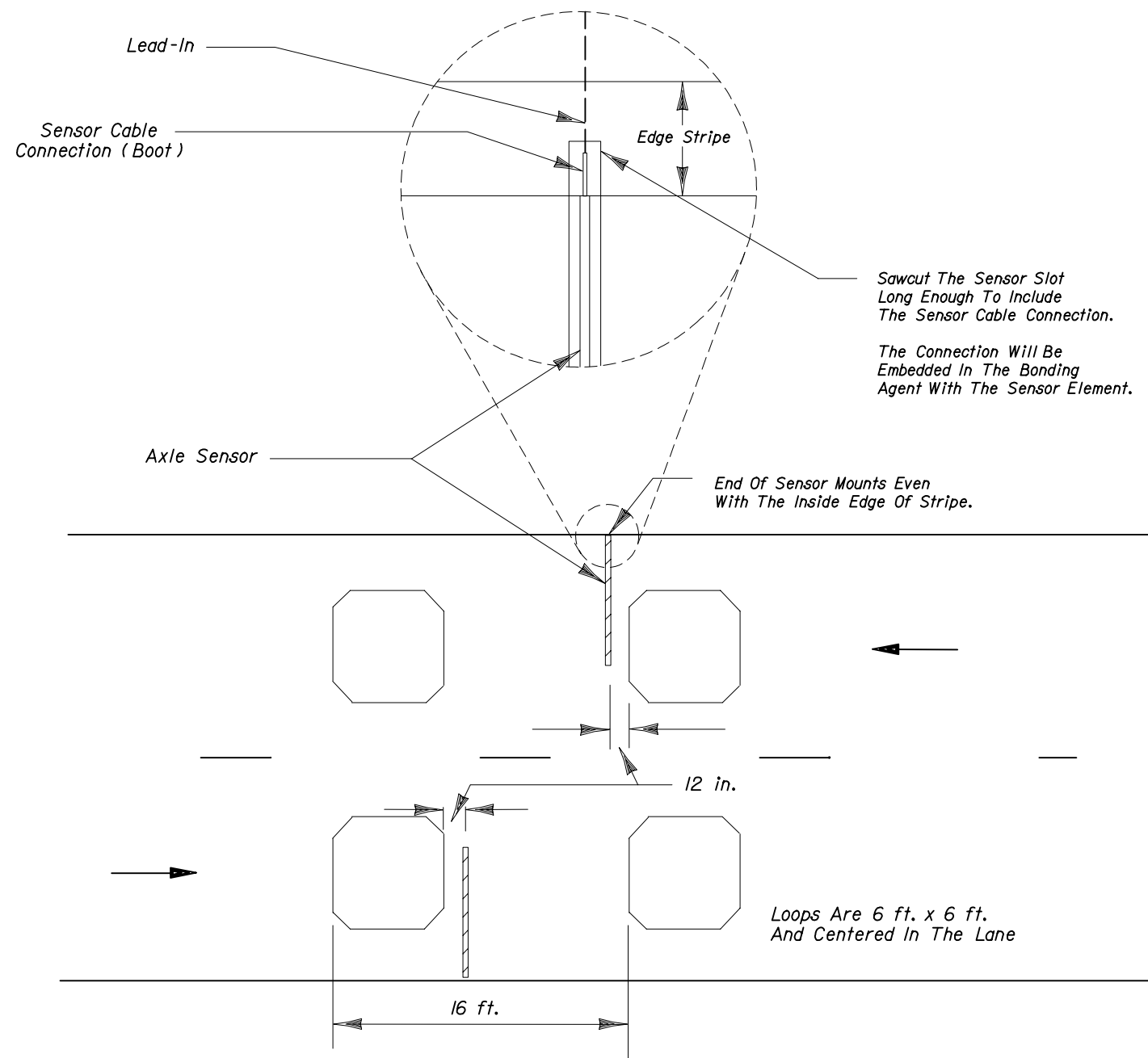
1. A second Vehicle Speed/Class. Unit and separate equipment cable connecting to a second J1 receptacle; or
2. A single Vehicle Speed/Class. Unit capable of up to eight lanes of inputs and a single equipment cable with split ends to fit two J1 receptacles. (Ref. Sheet 2 detail)

Numbers in parenthesis in the pinout chart identify lane numbers when a second backplane for lanes 5 through 8 is required.

EQUIPMENT CABLE DETAIL

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SPEED/CLASSIFICATION LOOP ASSEMBLY WITH AXLE SENSORS PLACEMENT DETAIL



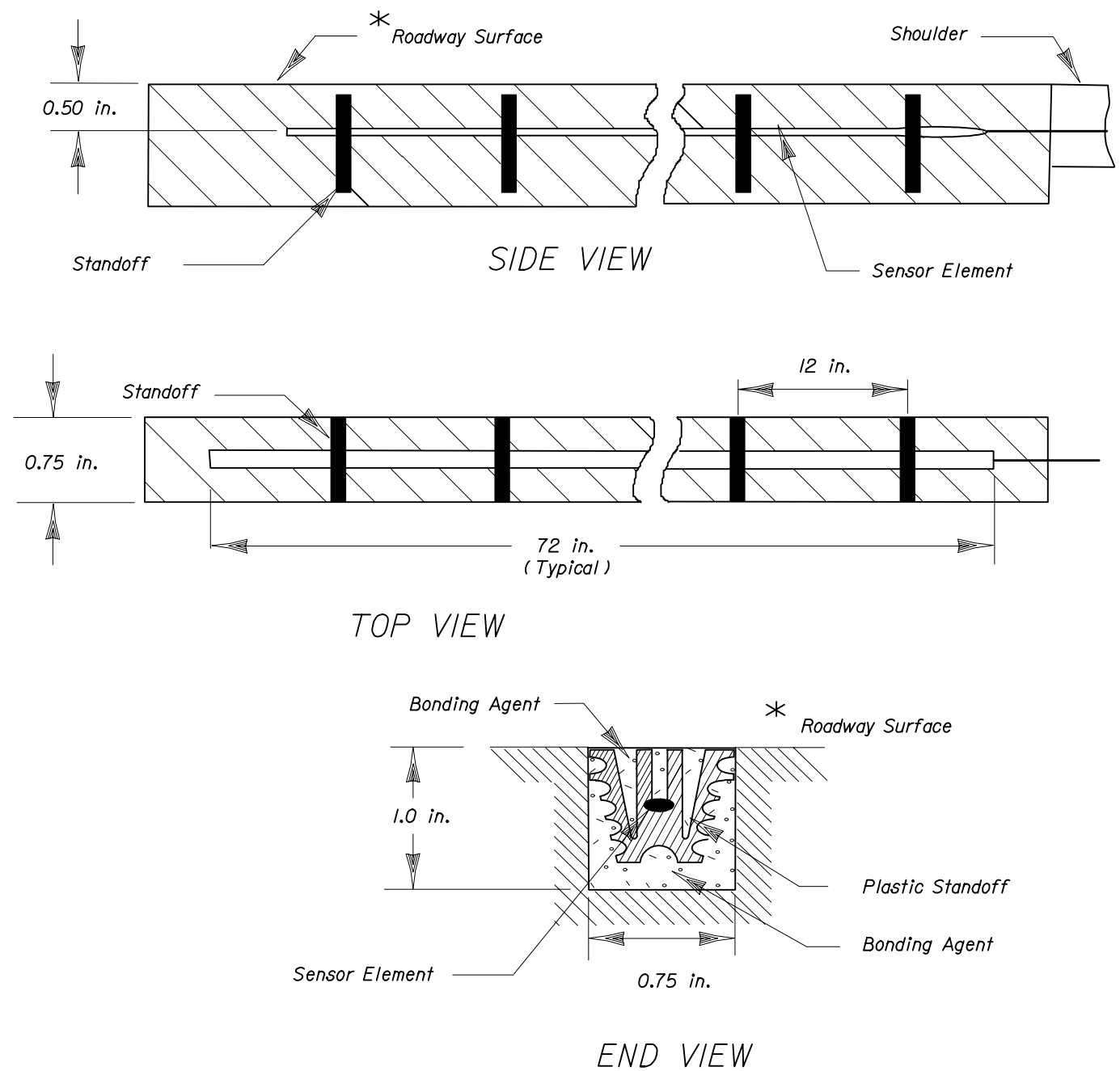
Note:

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.

All leads (inductive loop & vehicle sensor) shall be identified according to the lane numbering convention shown on sheet 8 and 9.

TYPICAL UNENCAPSULATED CLASS II VEHICLE SENSOR



* Some installations may require axle sensors to be placed in the structural course, prior to placement of the friction course.


Note:

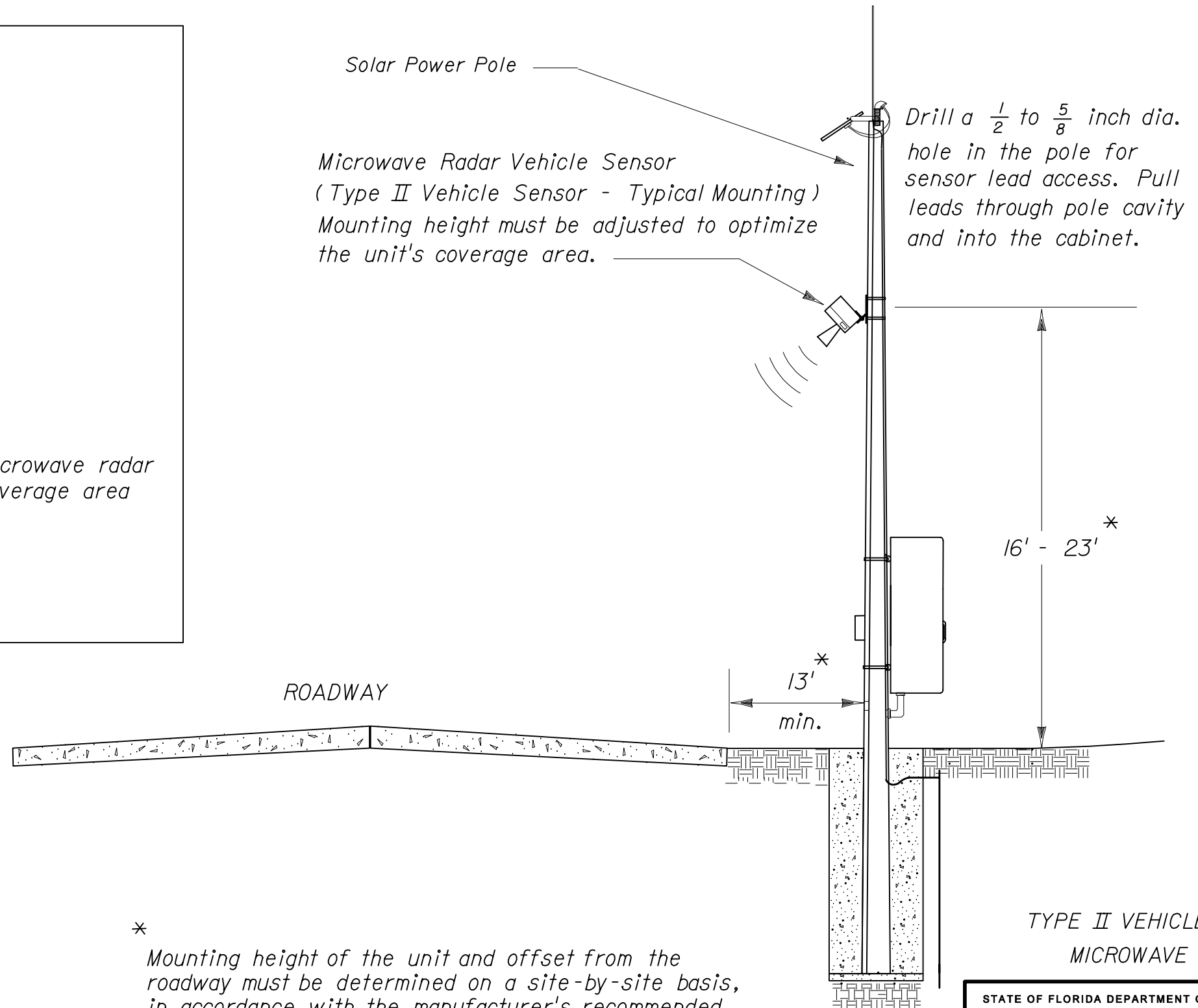
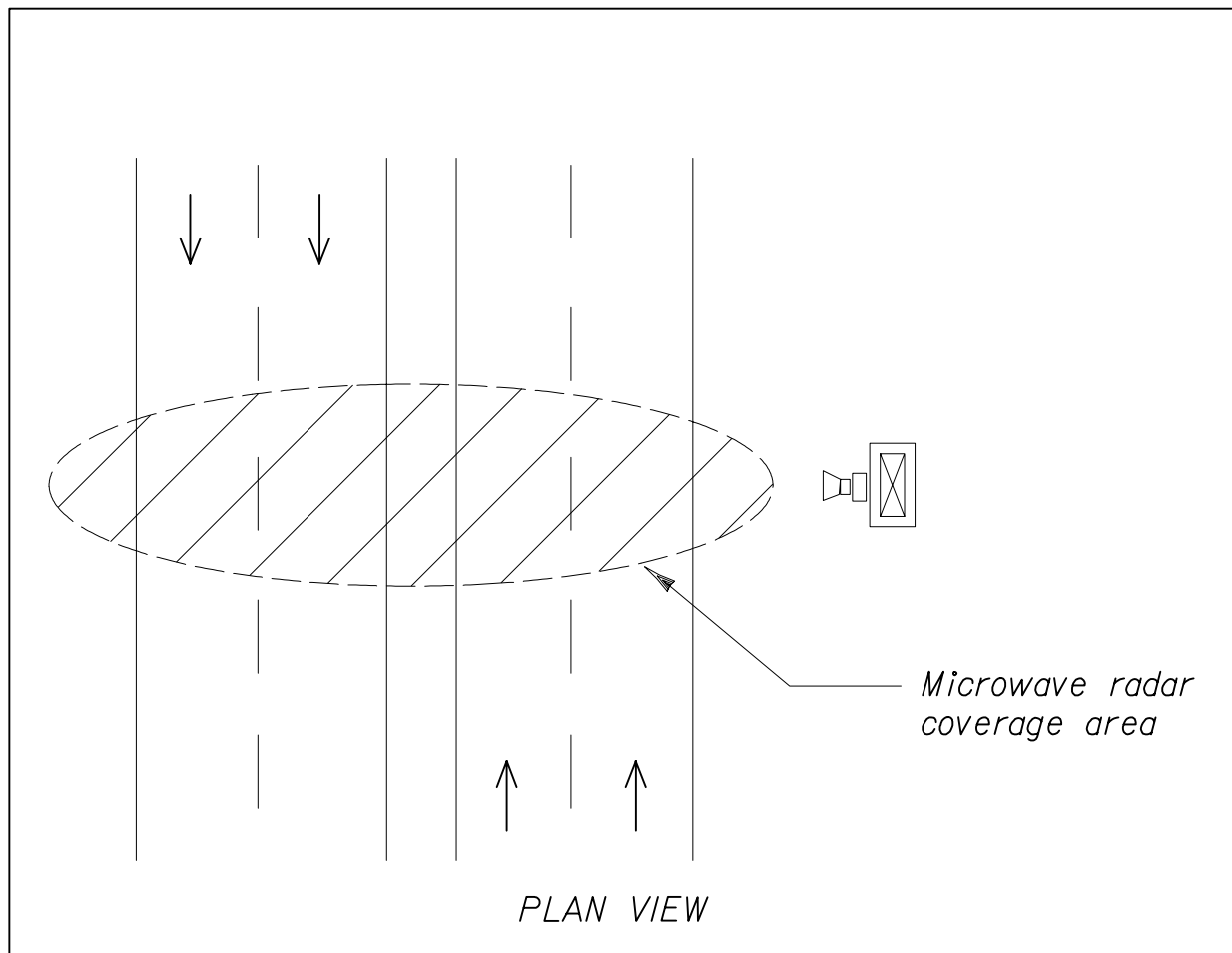
These are typical dimensions. actual dimensions, element cross-sections and standoffs may vary depending on manufacturer and model.

LOOP AND PIEZOELECTRIC VEHICLE SENSOR DETAIL

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TYPE II VEHICLE SENSOR
MICROWAVE RADAR


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

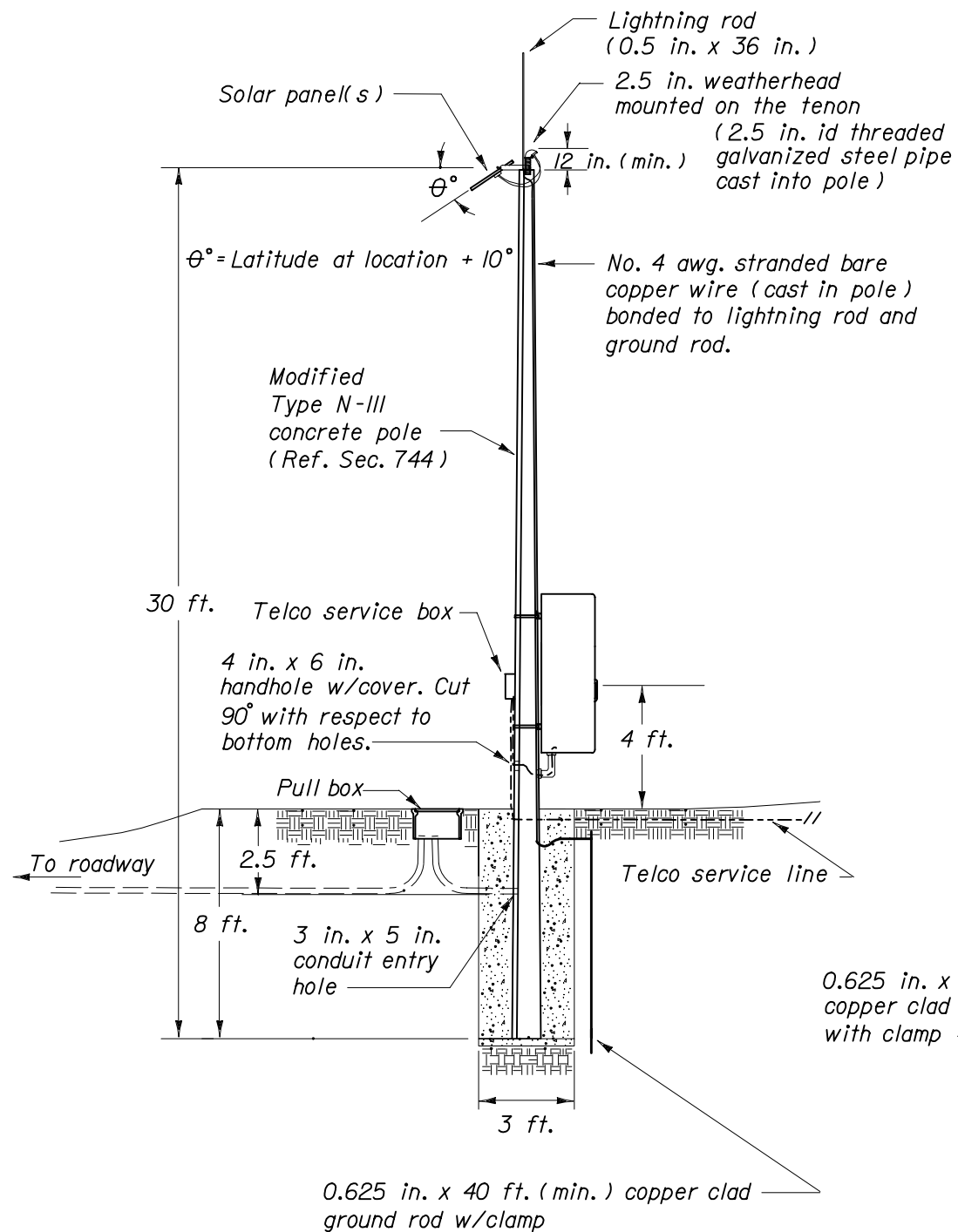
Coverage area of the unit is affected by the roadway geometry: distance from the travel lanes, median type and width, barrier walls, etc.

* 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 guidelines and existing clear zone requirements.

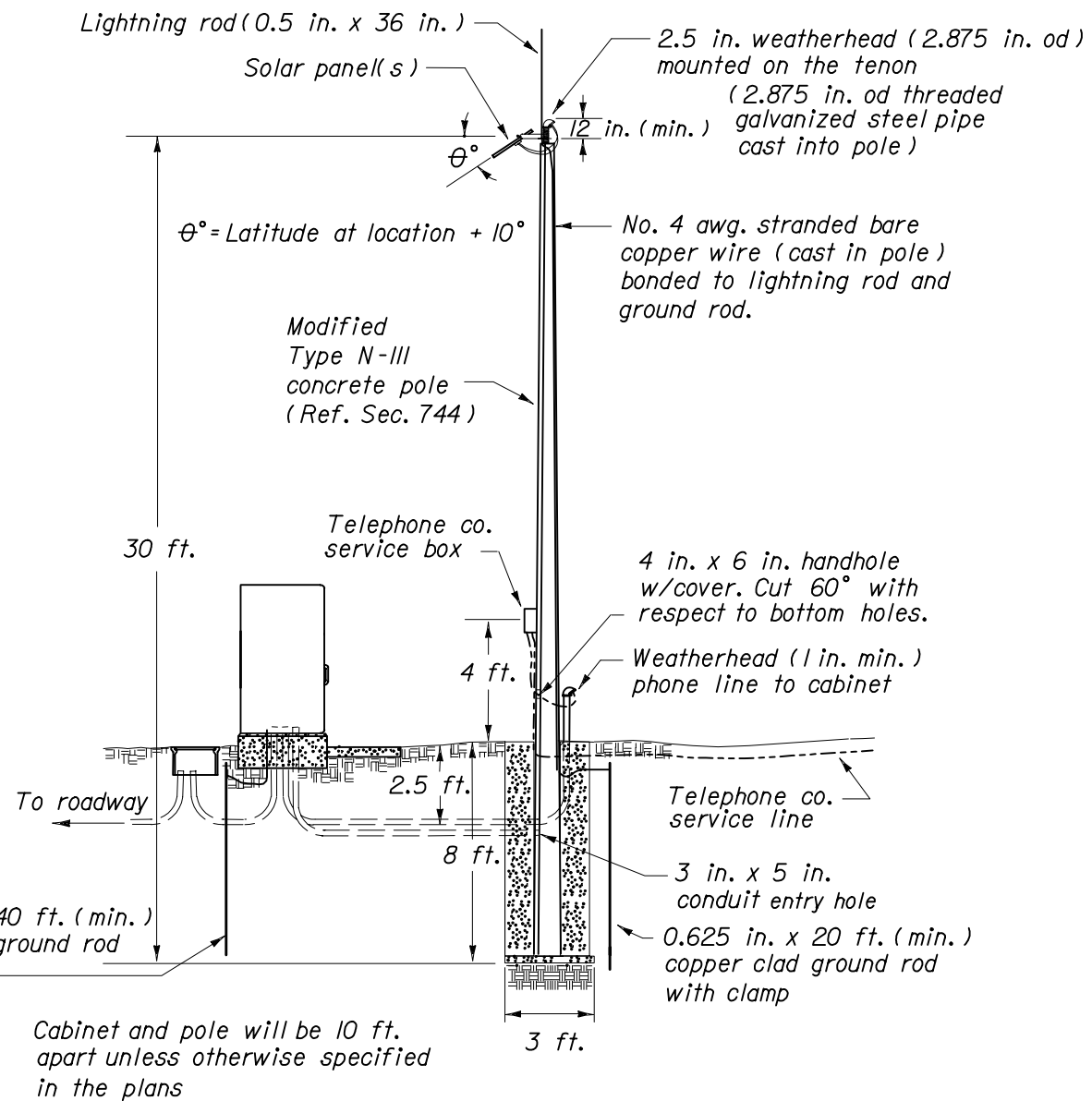
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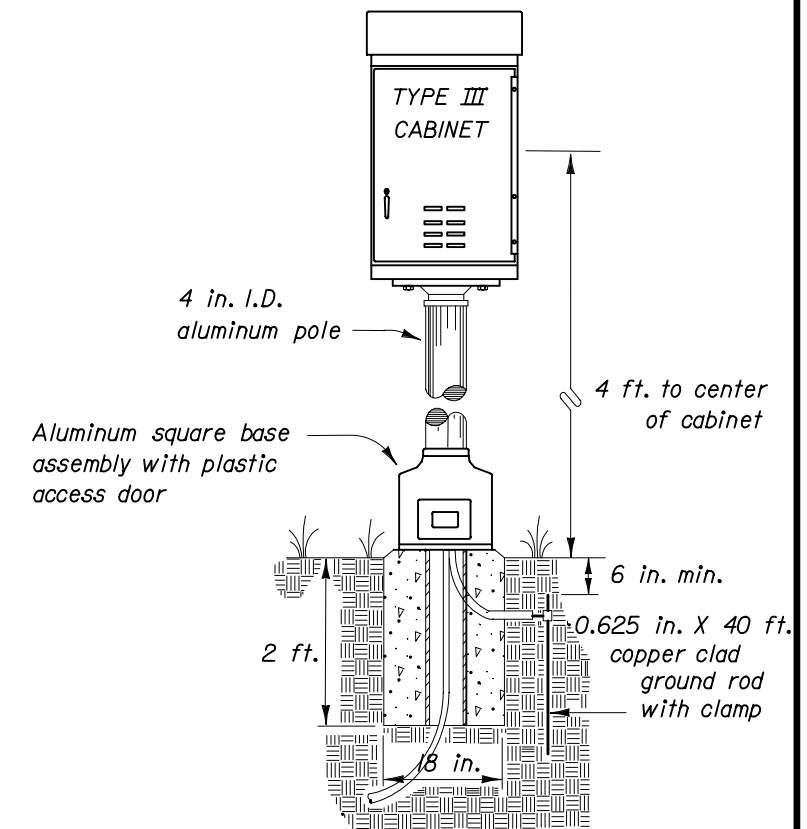
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SOLAR POWER POLE WITH POLE MTD. CABINET



SOLAR POWER POLE WITH BASE MTD. CABINET



PEDESTAL MTD. CABINET

SOLAR POWER POLE DETAIL

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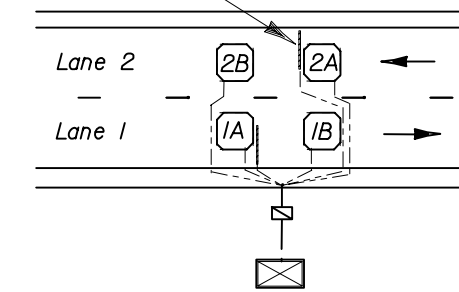
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Names	Dates	Approved By
Designed By		<i>J.R. De-...</i>
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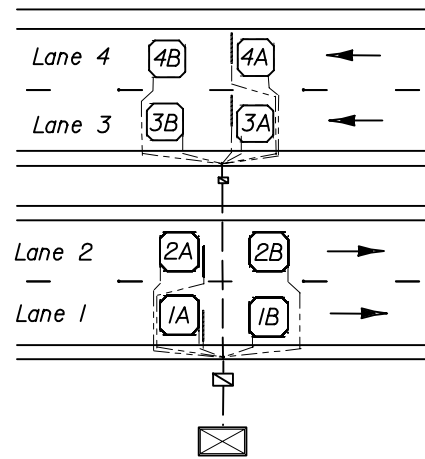
SINGLE CABINET CONFIGURATION

Vehicle sensors will be identified by, and leads marked with, the letters "VS" followed with the lane number.

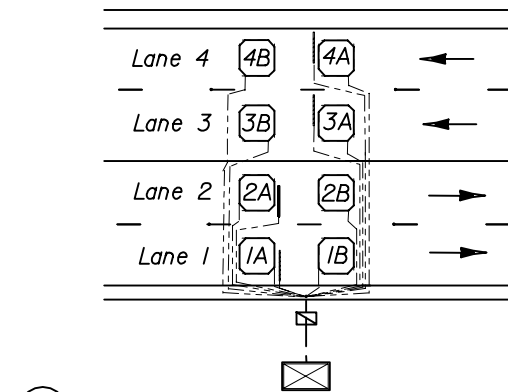
Example: "VS2"



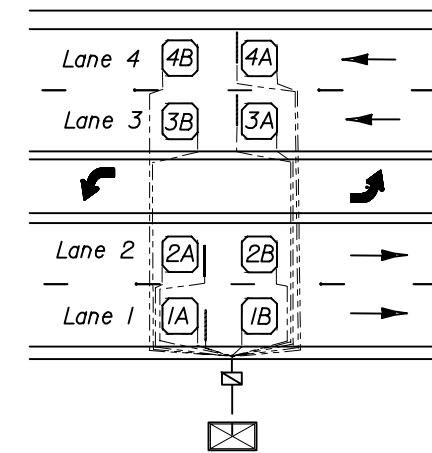
(A) TWO LANE - TWO WAY



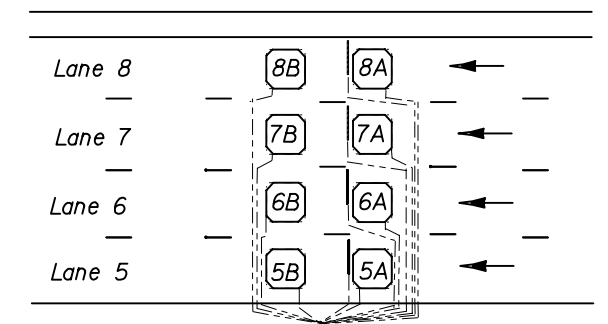
(B) FOUR LANE, DIVIDED - TWO WAY



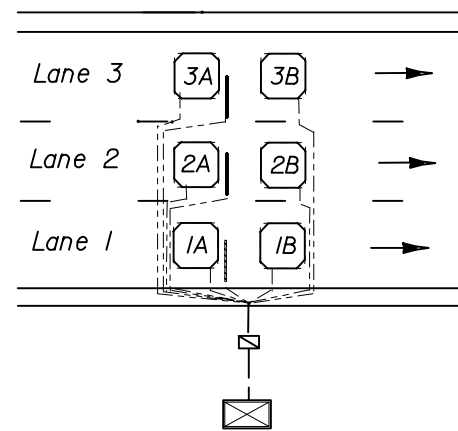
(C) FOUR LANE, UNDIVIDED - TWO WAY



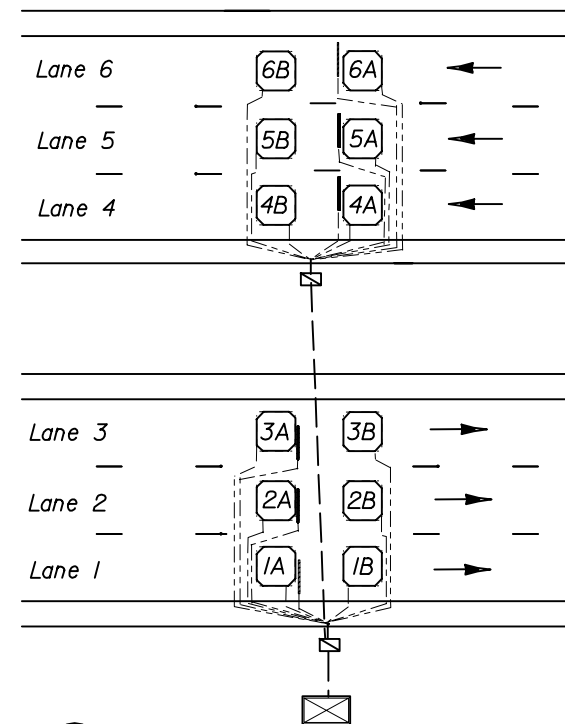
(D) FOUR LANE/CONTINUOUS LEFT TURN LANE



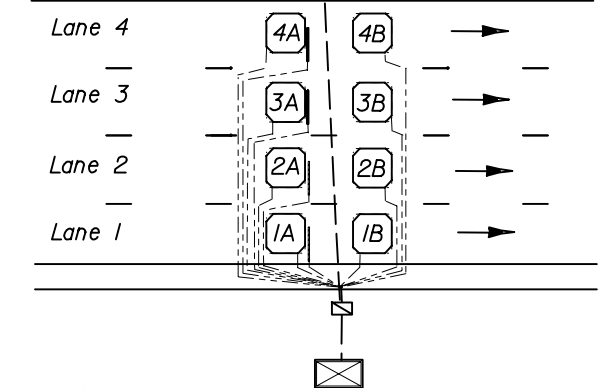
(E) TWO LANE - ONE WAY



(F) THREE LANE - ONE WAY



(G) SIX LANE, DIVIDED - TWO WAY




(H) EIGHT LANE, DIVIDED - TWO WAY

LANE NUMBERING CONVENTION DETAIL

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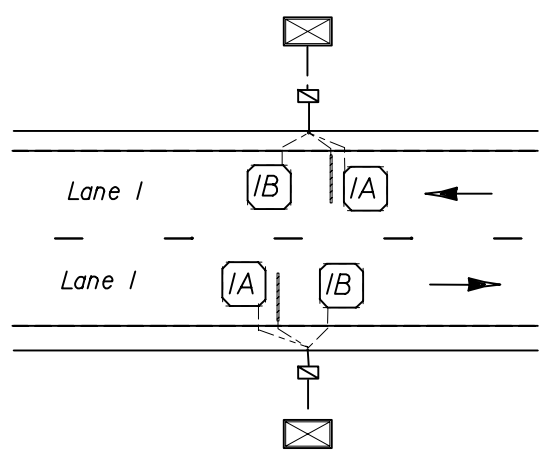
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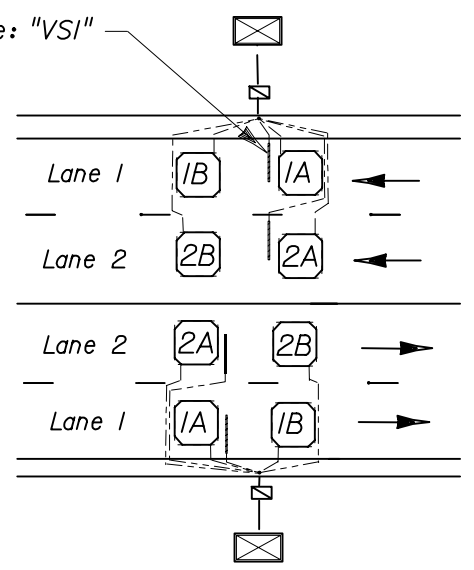
Vehicle sensors will be identified by, and leads marked with, the letters "VS" followed with the lane number.

TWO CABINET CONFIGURATION

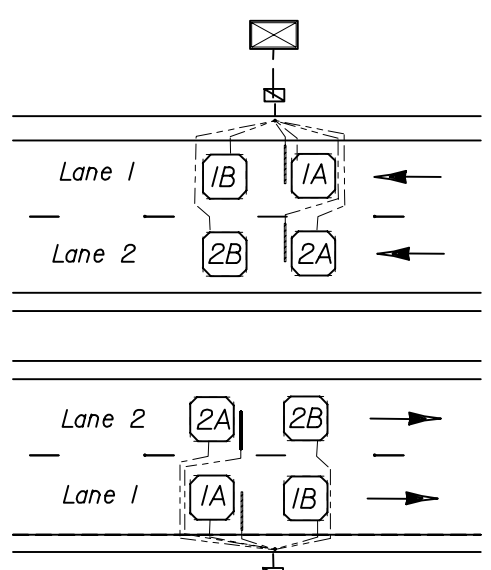
Example: "VS1"



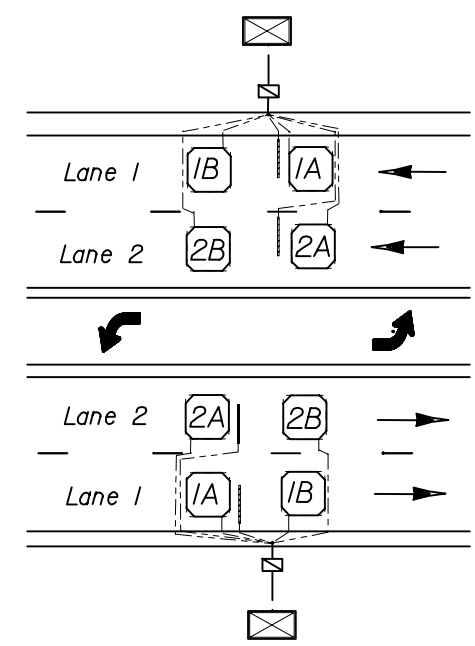
(A) TWO LANE - TWO WAY



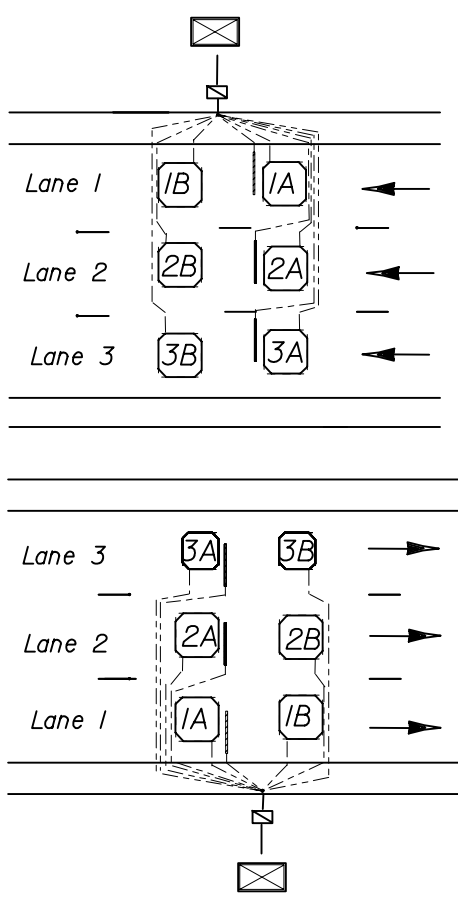
(B) FOUR LANE, UNDIVIDED TWO WAY



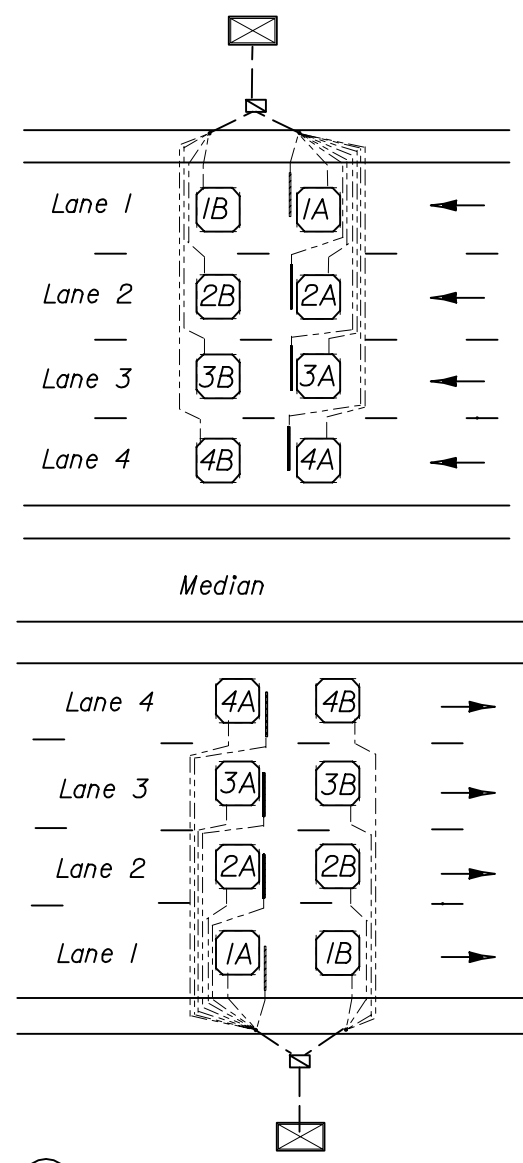
(C) FOUR LANE, DIVIDED - TWO WAY



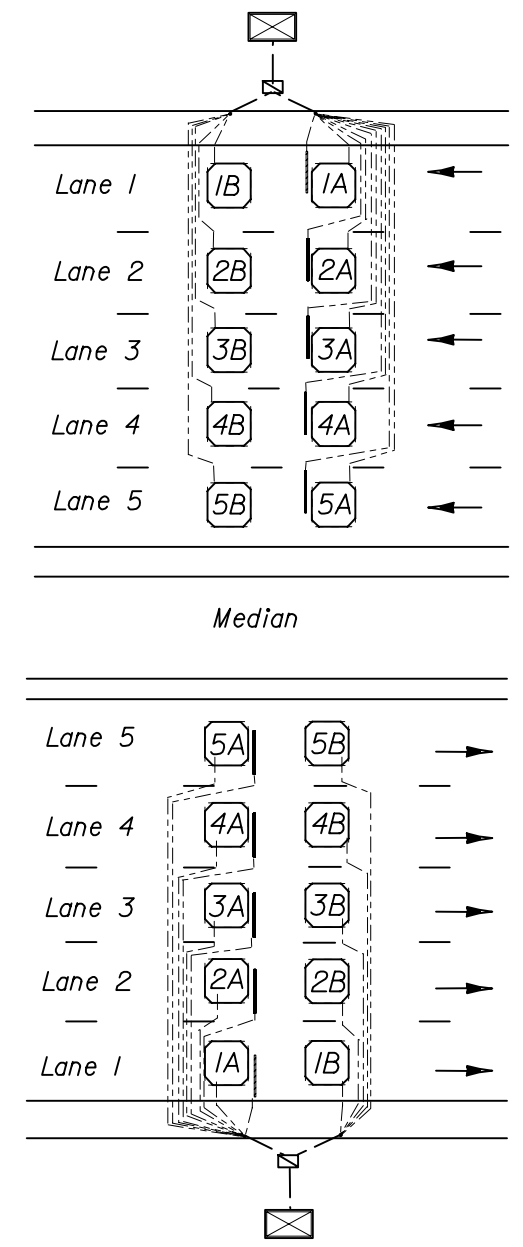
(D) FOUR LANE/CONTINUOUS LEFT TURN LANE



(E) SIX LANE, DIVIDED - TWO WAY



(F) EIGHT LANE, DIVIDED TWO WAY



(G) TEN LANE, DIVIDED TWO WAY

LANE NUMBERING CONVENTION DETAIL

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