

Origination Form
Proposed Revisions to a Standard Plans Index

Originator:	Johnson, Victor	Index Number:	695-001
Date:	06/18/2025	Sheet Number(s):	ALL
E-mail:	Victor.Johnson@dot.state.fl.us	Index Title:	Traffic Monitoring Site

Summary of the changes:

All Sheets - Renumbered.

Sheet 1: Updated TABLE OF CONTENTS; Changed titles on Sheets 14-16; Added New Sheet 17.

Sheet 5: Added "and start wire twist at the beginning of the home run slot." to Note 2; Added "Install a home run slot with a minimum width of 5/8".

Sheet 8: Added "and start wire twist at the beginning of the home run slot." to Note 2; Added "Install a home run slot with a minimum width of 5/8".

Sheet 11: Added "1.5 meter" to the Strain Gauge or Quartz Axle Sensor callout; Changed interior Sensor and Loop Leads dimension to 1-6".

Sheet 14: Changed the Loop dimension to 15.7"; Changed Lane Width to 6'-0" Max.; Separated the Loops and added dimension in the DUAL LOOP ASSEMBLY; Added TABLE-1; Changed title to "Regular Side Path Configurations".

Sheet 15: Changed the Loop dimension to 15.7"; Changed Lane Width to 6'-1" to 11-8"; Separated the Loops and added dimension in the DUAL LOOP ASSEMBLY; Updated TABLE-1 and renamed TABLE-2; Updated the Inductive Loop callout to reference Table-2; Changed title to "Medium Shared Use Path Configurations".

Sheet 16: Changed the Loop dimension to 15.7"; Changed Lane Width to 11-9" to 15'-0"; Separated the Loops and added dimension in the DUAL LOOP ASSEMBLY; Updated TABLE-1 and renamed TABLE-3; Updated the Inductive Loop callout to reference Table-3; Deleted gap between Inductive Loops and Deleted "See TABLE-1 on Sheet 15" reference; Updated See Changed title to "Medium Shared Use Path Configurations".

Sheet 17: New Sheet - Extra Large Shared Use Path Configurations.

Sheet 17: New Sheet 18 - Added IR Lens and Dimension to the ELEVATION view.

Sheet 18: New Sheet 19- Added "Concrete" to the Foundation callout in DETAIL 'D'.

Sheet 19: New Sheet 20.

Sheet 20: New Sheet 21 - Updated NOTES - Pulled Note 6 out as its own note; Changed the Varies (See Note 6) callout in the SOLAR POWER POLE WITH POLE MOUNTED CABINET to "See CONCRETE BASE DIMENSIONS".

Commentary/Background:

FDOT Transportation Data and Analytics office is updating the pages of the 2026-2027 Standard Plan Index 695-001 to assist with issues that are being experienced in the field during construction. The updated document is bringing in a new page of non-motorized layout to be cohesive with changes in the manufacturer's device and updated criteria. It is also meant to detail the processes and equipment to be used in the installation of sensors, both the general instruction for count sites, WIM, and non-motorized.

Other Affected Documents/Offices	Person Contacted	Affected (Yes/No)
Other Standard Plans		
FDOT Design Manual		
Standard Specifications		

Basis of Estimates Manual		
Approved Product List		
Construction Office		
Maintenance Office		

Implementation

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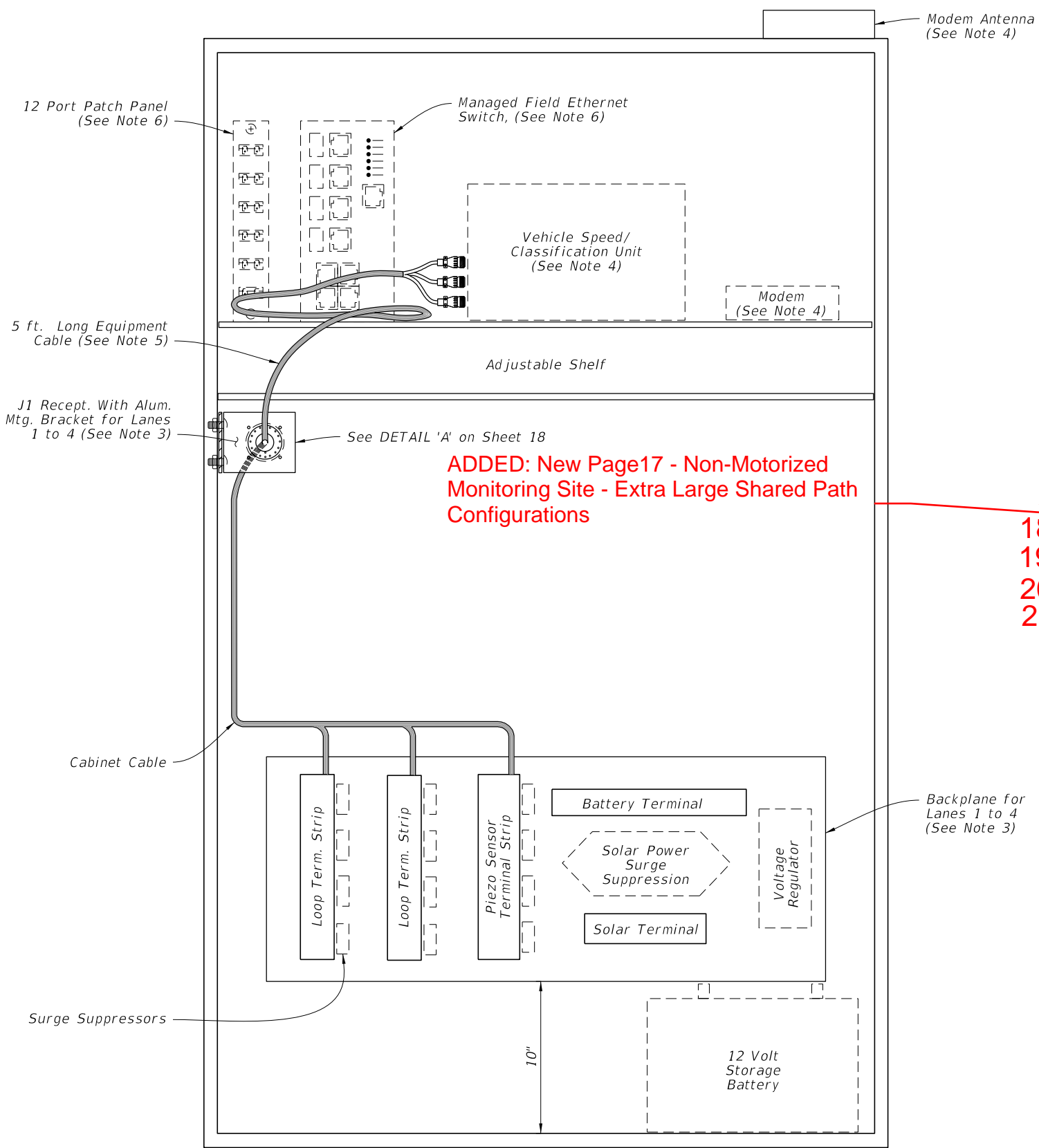


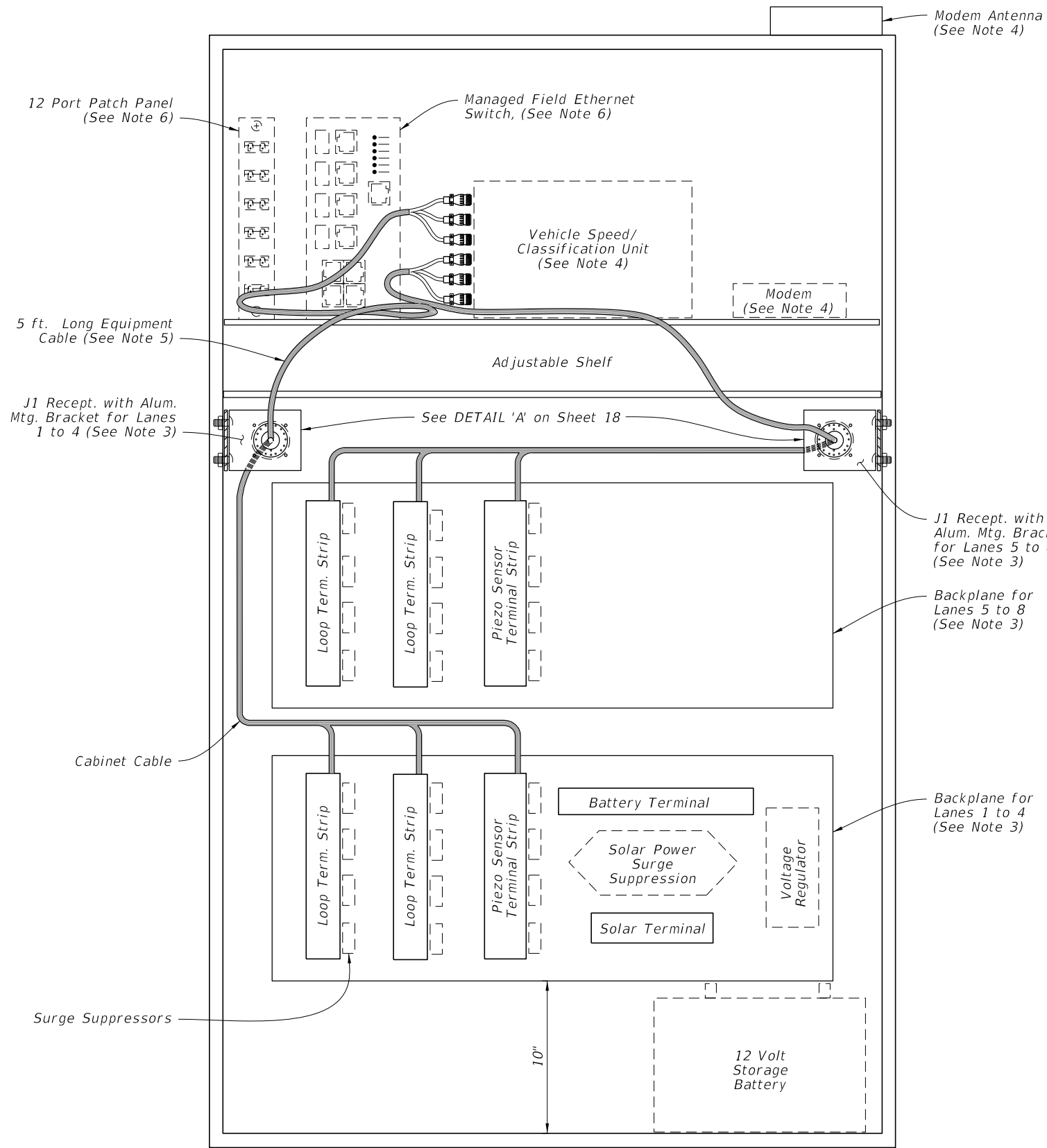
TABLE OF CONTENTS:	
Sheet	Description
1	Continuous Count Station Traffic Monitoring Site - TTMS/CCS - Cabinet Layout Details (Four Lanes or Less)
2	Continuous Count Station Traffic Monitoring Site - TTMS/CCS - Cabinet Layout Details (Five to Eight Lanes)
3	Continuous Count Station Traffic Monitoring site - TTMS/CCS - Cabinet Backplane Details
4	Continuous Count Station Traffic Monitoring Site - TTMS/CCS - Pinout Chart, Receptacle, and Plug Details
5	Continuous Count Station Traffic Monitoring Site - TTMS/CCS - Lane Layout for TMS Inductive Loop and Axle Sensors
6	Short Term Traffic Monitoring Site - PTMS - Cabinet Layout Details (Four Lanes or Less)
7	Short Term Traffic Monitoring Site - PTMS - Cabinet Layout Details (Five to Eight Lanes)
8	Short Term Traffic Monitoring Site - PTMS - Lane Layout for PTMS Inductive Loop and Axle Sensors
9	Weigh-In-Motion Monitoring Site - Cabinet Layout Details
10	Weigh-In-Motion Monitoring Site - Cabinet Backplane Details
11	Weigh-In-Motion Monitoring Site - Lane Layout for TTMS/CCS Inductive Loop and Weigh-In-Motion Sensors
12	Non-Motorized Monitoring Site - Cabinet Layout Details
13	Non-Motorized Monitoring Site - Cabinet Sideplane and Cabinet Backplane Details
14	Non-Motorized Monitoring Site - Narrow Side Path Configuration CHANGE: to Regular Side Path Configurations
15	Non-Motorized Monitoring Site - Large Shared Use Path Configurations CHANGE: to Medium Share Use Path Configurations
16	Non-Motorized Monitoring Site - Extra Large Shared Use Path Configurations CHANGE: to Large Shared Use Path Configurations
17	Non-Motorized Monitoring Site - Paved Sidewalk Configuration
18	Details 'A' thru 'F'
19	Non-Intrusive Vehicle Sensor
20	Solar Power Pole With Pole Mounted Cabinet and Pedestal Mounted Cabinet Details
21	

NOTES:

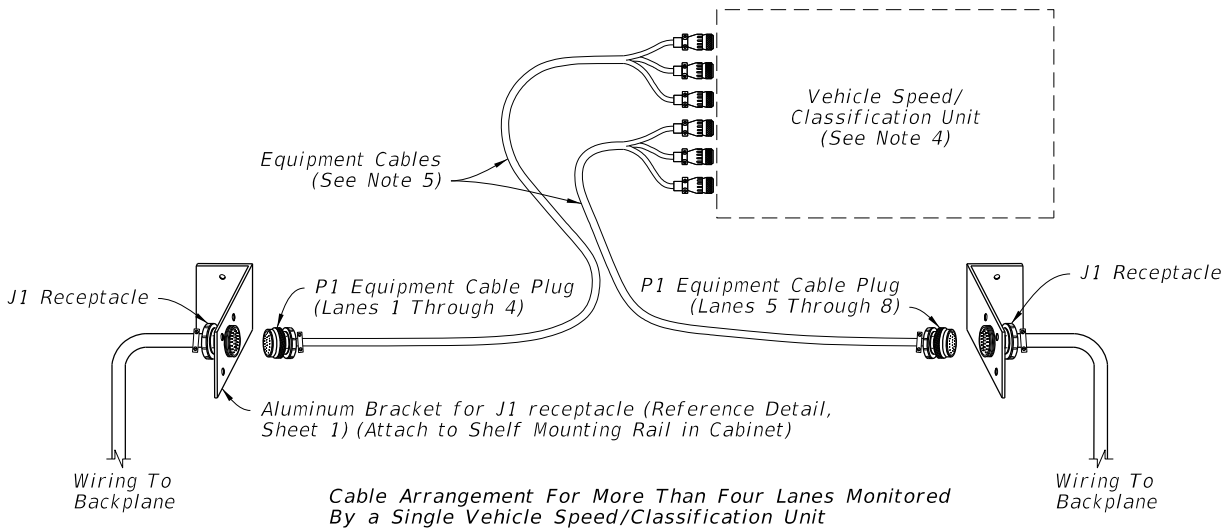
- Traffic monitoring site cabinet includes:
 - A. One adjustable shelf; (equipped as shown)
 - B. One backplane assembly; (equipped as shown)
 - C. One J1 receptacle with mounting bracket;
 - D. One P1 equipment cable 5 ft. long (See Sheet 4);
 - E. All associated wiring and wiring harnesses.
- Basic backplane assembly consists of:
 - A. Two inductive loop terminal strips;
 - B. One piezo sensor terminal strip;
 - C. One battery terminal strip;
 - D. One solar panel terminal strip.
- The contractor is responsible for contacting the TMS Manager at the Transportation Data and Analytics Office for lane number information and verification.
- Provide and install a Speed/Classification Unit, Modem, and Antenna.
- Cable ends must be fabricated to fit the vehicle speed/classification unit. See Sheet 4 for Pinout Charts, receptacle and plug details.
- Provide and install a 12-fiber single mode cable, a 12-port patch panel, and a managed field ethernet switch.

CABINET LAYOUT DETAILS
(Four Lanes or Less)

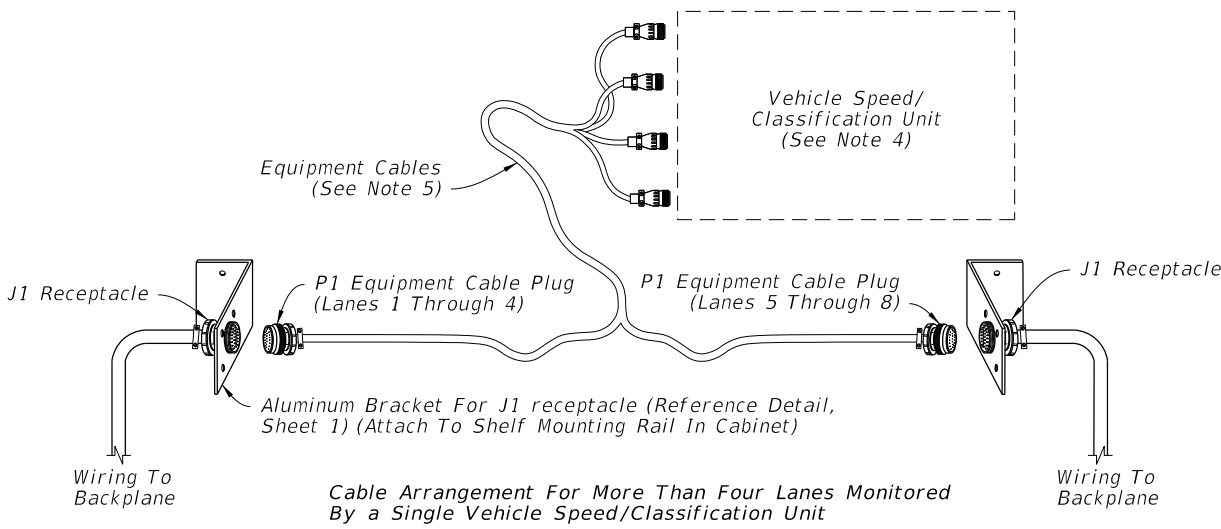
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CABINET LAYOUT DETAILS
(Five to Eight Lanes)



OPTION A
(Shown)



OPTION B

EQUIPMENT CABLE ASSEMBLY

- NOTES:**
- Traffic monitoring site cabinet includes:
 - A. One adjustable shelf; (equipped as shown)
 - B. Two backplane assembly; (equipped as shown)
 - C. Two J1 receptacle with mounting bracket;
 - D. One P1 equipment cable 5 ft. long (See Sheet 4);
 - E. All associated wiring and wiring harnesses.
 - Basic backplane assembly consists of:
 - A. Two inductive loop terminal strips;
 - B. One piezo sensor terminal strip;
 - C. One battery terminal strip;
 - D. One solar panel terminal strip.
 - The contractor is responsible for contacting the TMS Manager in the Transportation Data and Analytics Office for lane number information and verification.
 - Provide and install Speed/Classification Unit, Modem, and Antenna.
 - Cable ends must be fabricated to fit the vehicle speed/classification unit. See Sheet 4 for Pinout Charts, receptacle and plug details.
 - Provide and install a 12-fiber single mode cable, a 12-port patch panel, and a managed field ethernet switch.

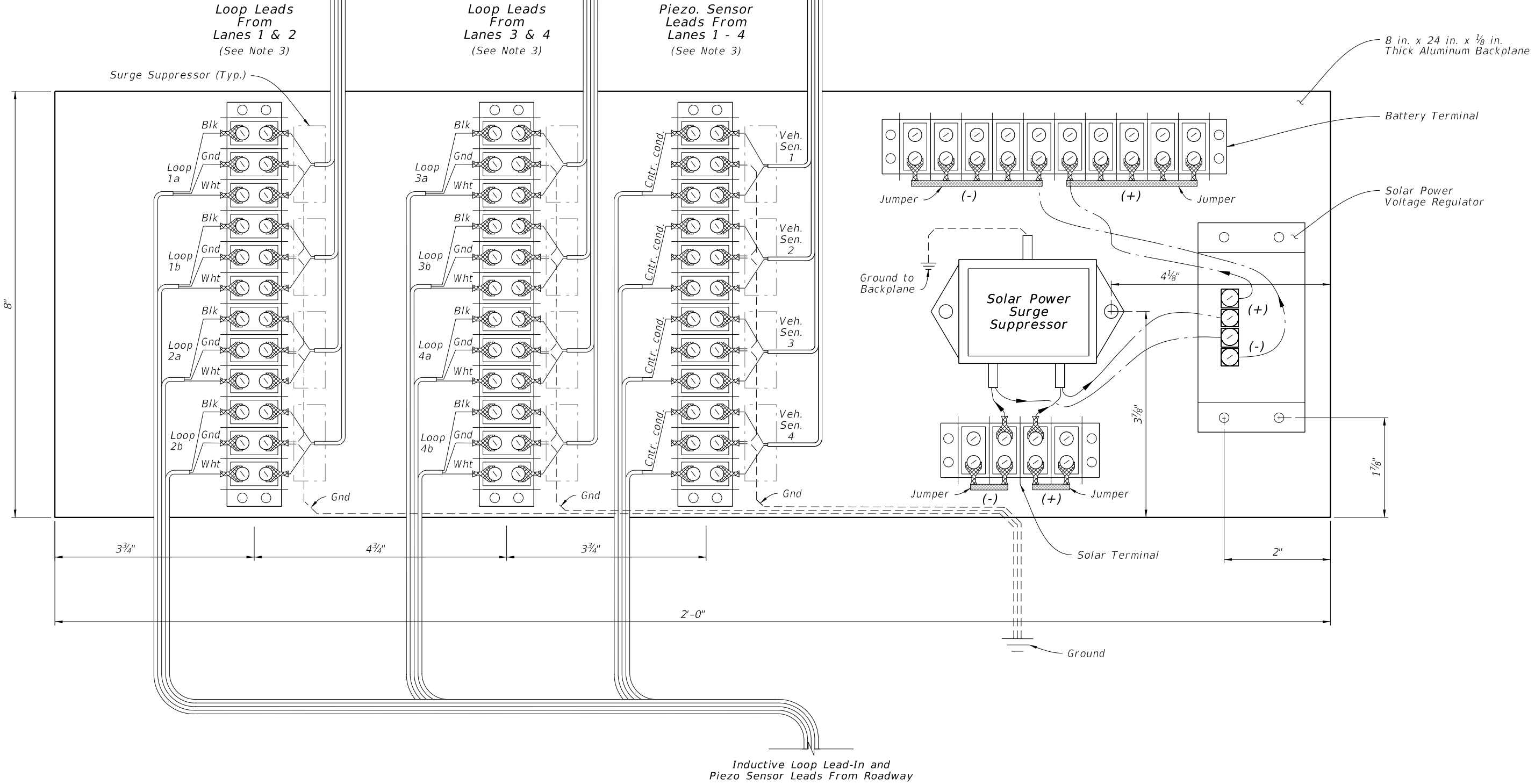
2026-27

CONTINUOUS COUNT STATION TRAFFIC MONITORING SITE - TTMS/CCS

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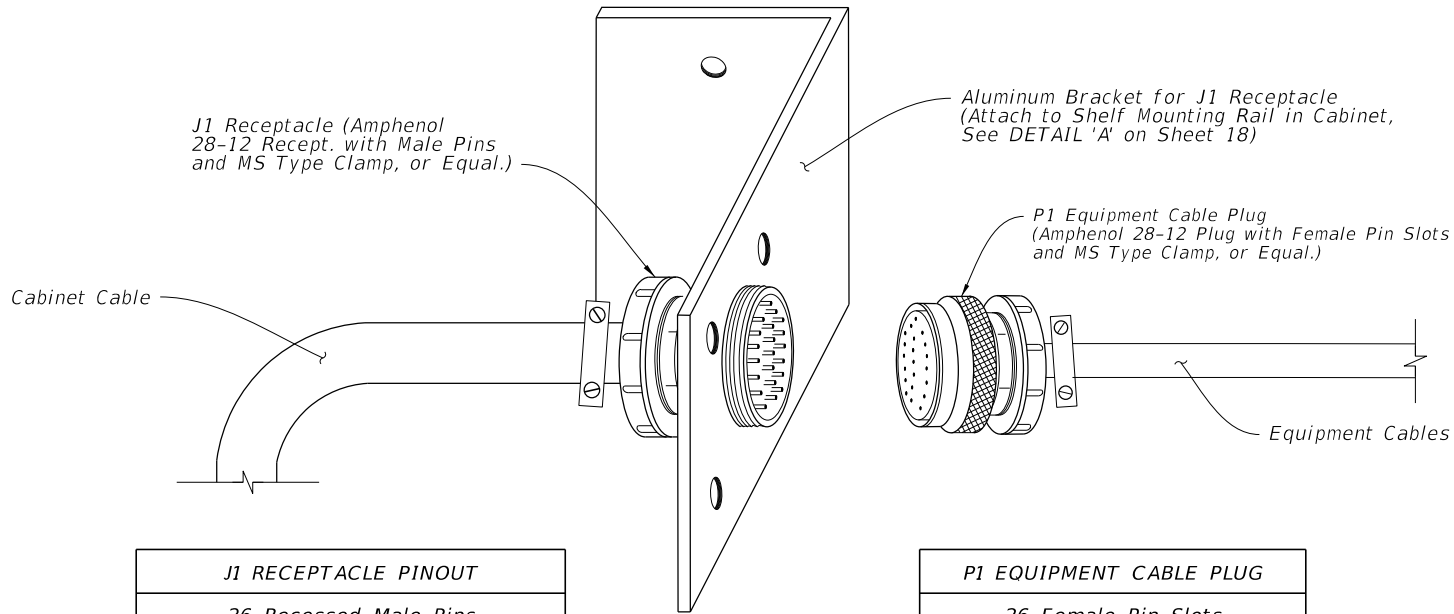
To J1 Receptacle

- NOTES:**
- 1. Reference Sheet 1 or 2, Note 2 for items to be included with backplane.
 - 2. All terminal strip contacts are on 9/16" centers (Clinch 142 Series or equal) Use insulated fork wire terminations.
 - 3. The contractor is responsible for contacting the TMS Manager in the Transportation Data and Analytics Office for lane number information and verification.



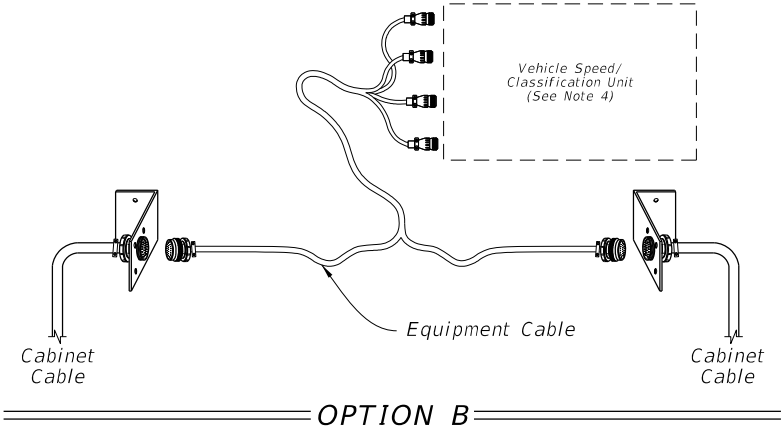
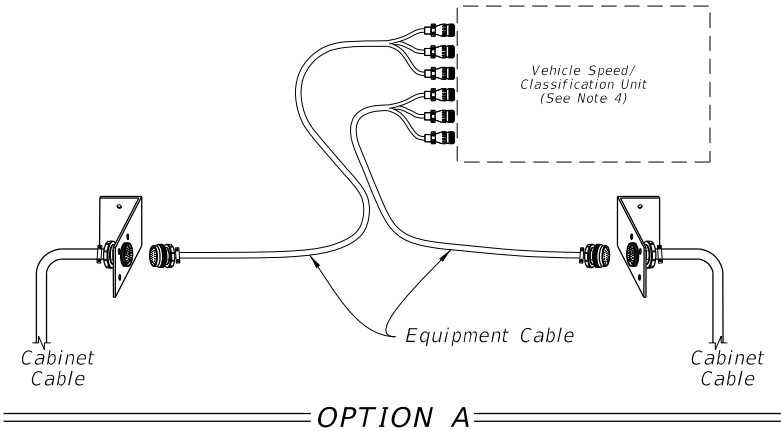
CABINET BACKPLANE DETAIL

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J1 RECEPTACLE PINOUT	
26 Recessed Male Pins	
A	Loop 1a (5a) white
B	Loop 1a (5a) black
C	Loop 1b (5b) red
D	Loop 1b (5b) black
E	Loop 2a (6a) green
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/white
R	Loop 4a (8a) w/black
S	Loop 4b (8b) w/red
T	Loop 4b (8b) w/green
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/white
d	Gnd green

P1 EQUIPMENT CABLE PLUG		
26 Female Pin Slots		
A	Loop 1a (5a)	Connect To Electronics Unit
B	Loop 1a (5a)	
C	Loop 1b (5b)	
D	Loop 1b (5b)	
E	Loop 2a (6a)	
F	Loop 2a (6a)	Connect To Electronics Unit
G	Loop 2b (6b)	
H	Loop 2b (6b)	
N	Gnd	
J	Loop 3a (7a)	
K	Loop 3b (7b)	Connect To Electronics Unit
L	Loop 3b (7b)	
M	Loop 3b (7b)	
P	Loop 4a (8a)	
R	Loop 4a (8a)	
S	Loop 4b (8b)	Connect To Electronics Unit
T	Loop 4b (8b)	
d	Gnd	
U	Piezo 1 (5) (+)	
V	Piezo 1 sh	
W	Piezo 2 (6) (+)	Connect To Electronics Unit
X	Piezo 2 sh	
Y	Piezo 3 (7) (+)	
Z	Piezo 3 sh	
a	Piezo 4 (8) (+)	
b	Piezo 4 sh	



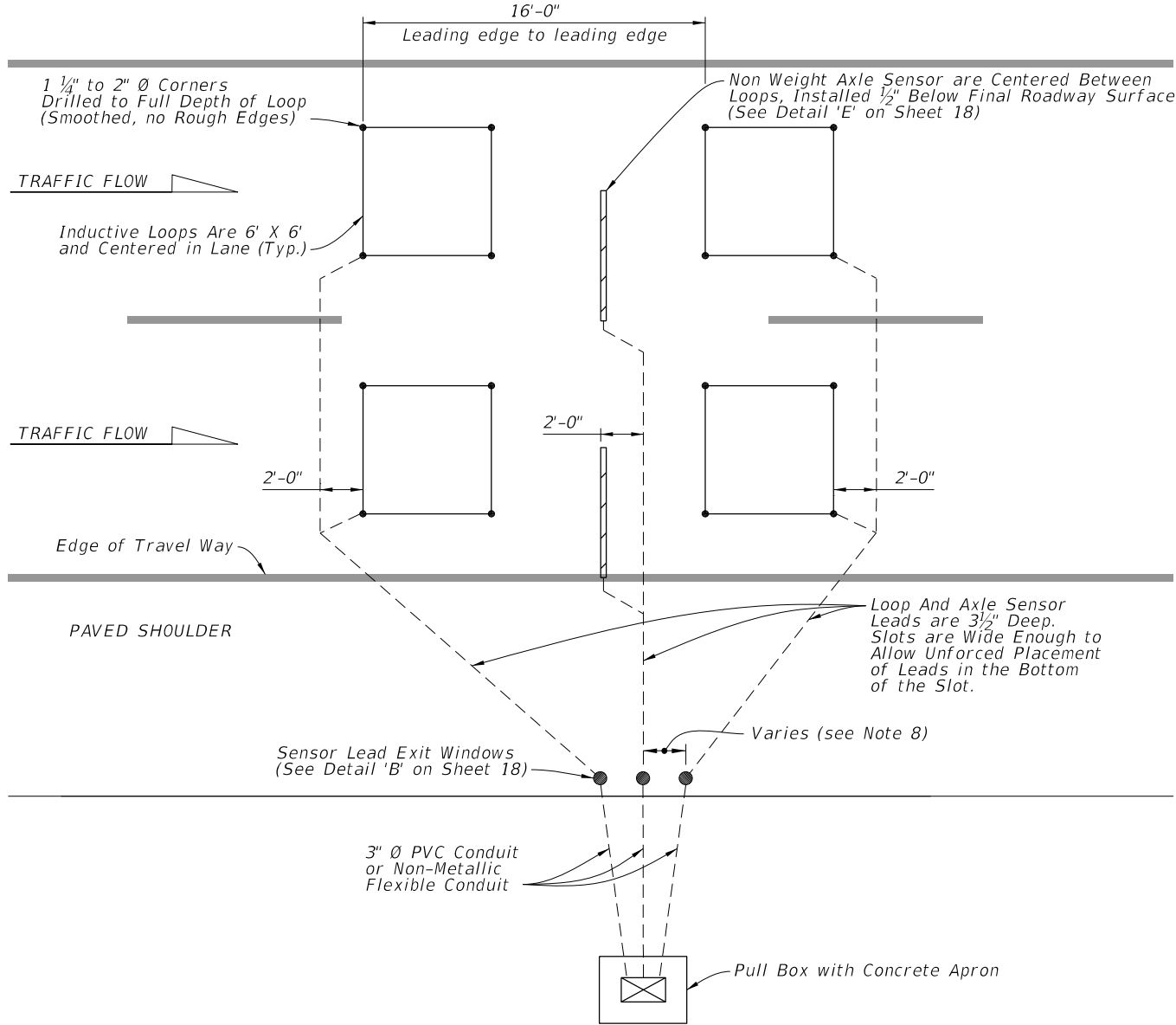
- NOTES:**
- The contractor is responsible for contacting the TMS Manager in the Transportation Data and Analytics Office for lane number information and verification.
 - The equipment cable can accommodate up to four lanes of inductive loop and piezo sensor inputs. (See Sheet 1 for cabinet layout)
 - For more than four lanes and up to eight lanes of inputs, the following options are available:
 - Second Vehicle Speed/Classification Unit and separate equipment cable connecting to a second J1 receptacle; or
 - Single Vehicle Speed/Classification Unit capable of up to eight lanes of inputs and a single equipment cable with split ends to fit two J1 receptacles. (See Sheet 2 detail)
 - Numbers in parenthesis in the pinout chart identify lane numbers when a second backplane for lanes 5 through 8 is required.
 - Cable Ends must be fabricated to fit the vehicle Speed/Classification Unit.

PINOUT, RECEPTACLE, AND PLUG DETAILS

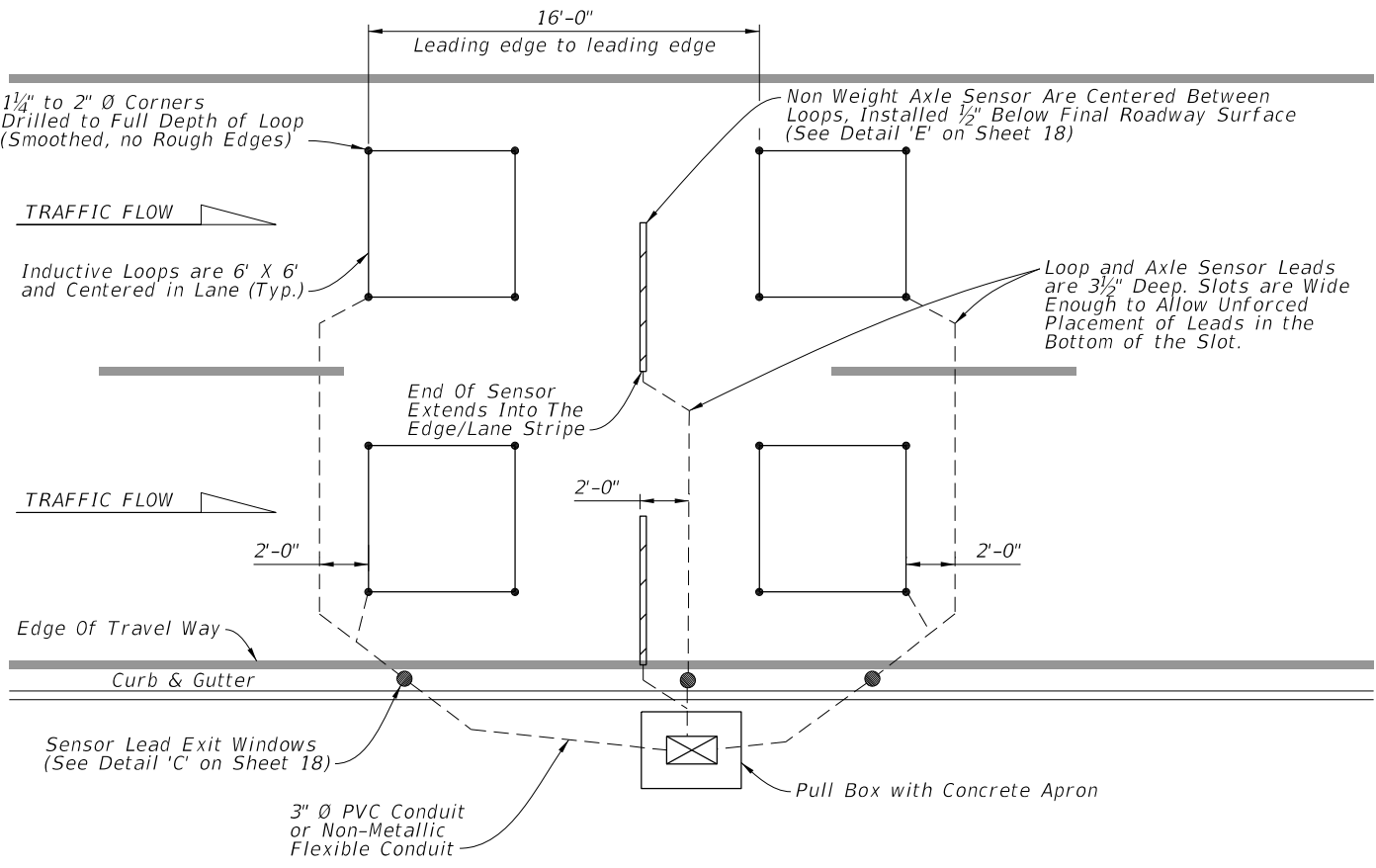
2026-27

CONTINUOUS COUNT STATION TRAFFIC MONITORING SITE - TTMS/CCS

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ROADWAYS WITH PAVED SHOULDERS



CURB & GUTTER ROADWAYS

NOTES:

1. Install axle sensors and loops associated with axle sensors after placement of the friction course.
2. Cut a 3 1/2" deep slot for the Inductive loops. Loop slots will be cut wide enough to allow unforced placement of the wire into the bottom of the slot. Four turns of #14 AWG, place the IMSA 51-7 copper wire in the slot. Place short pieces of backer rod (2" to 3" in length) every 18" to 24" to hold the loop wire in the bottom of the slot.
3. Twist loop leads at the rate of 8 to 16 twist per foot. Extend the twisted pair loop wire directly to the cabinet. No splicing of the loop leads will be permitted.
4. Marking will consist of two rounds of contrasting colored tape, one color for the lane number and the second color for the lead loop location in the lane. The first band closest to the cabinet will represent the lane number, one round of tape will be for lane 1 and two rounds will be lane 2, etc. The lead loop in lane one would have one round of tape and a second round of a contrasting colored tape for the lead loop in the lane. The trailing loop would not have a second contrasting colored band of tape.
5. See Index 635-001 for pull box and concrete apron details.
6. Use a chalk line or string and paint to layout the position of the sensor and lead-in cable slots. Ensure saw cuts do not deviate more than 1/2" from the chalk line. Use a single blade or ganged blade saw wide enough to cut the axle sensor slot at full width in a single pass. Cutting two slots and chipping out roadway material between them is not allowed.
7. All sensor slots and any cuts in the roadway will be thoroughly blown out to ensure there is no dust or debris prior to installation of sensors or leads.
8. Install Exit Windows at least 2' apart.

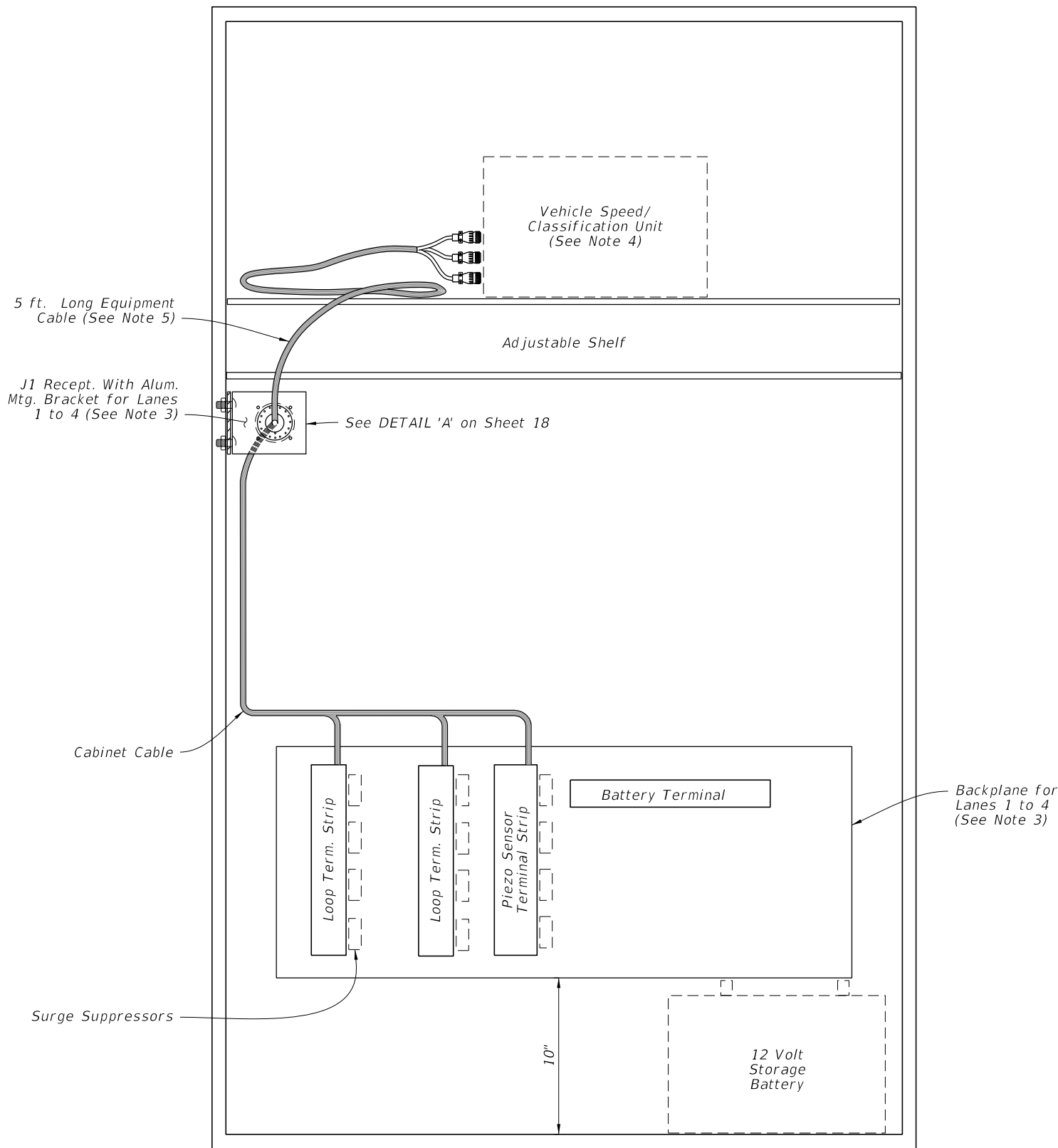
LANE LAYOUT FOR TTMS/CCS INDUCTIVE LOOP AND AXLE SENSORS
(Typical for up to 4 Lanes of Sensor Leads Pulled to one Side of the Roadway)

2026-27

CONTINUOUS COUNT STATION TRAFFIC MONITORING SITE - TTMS/CCS

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NOTES:

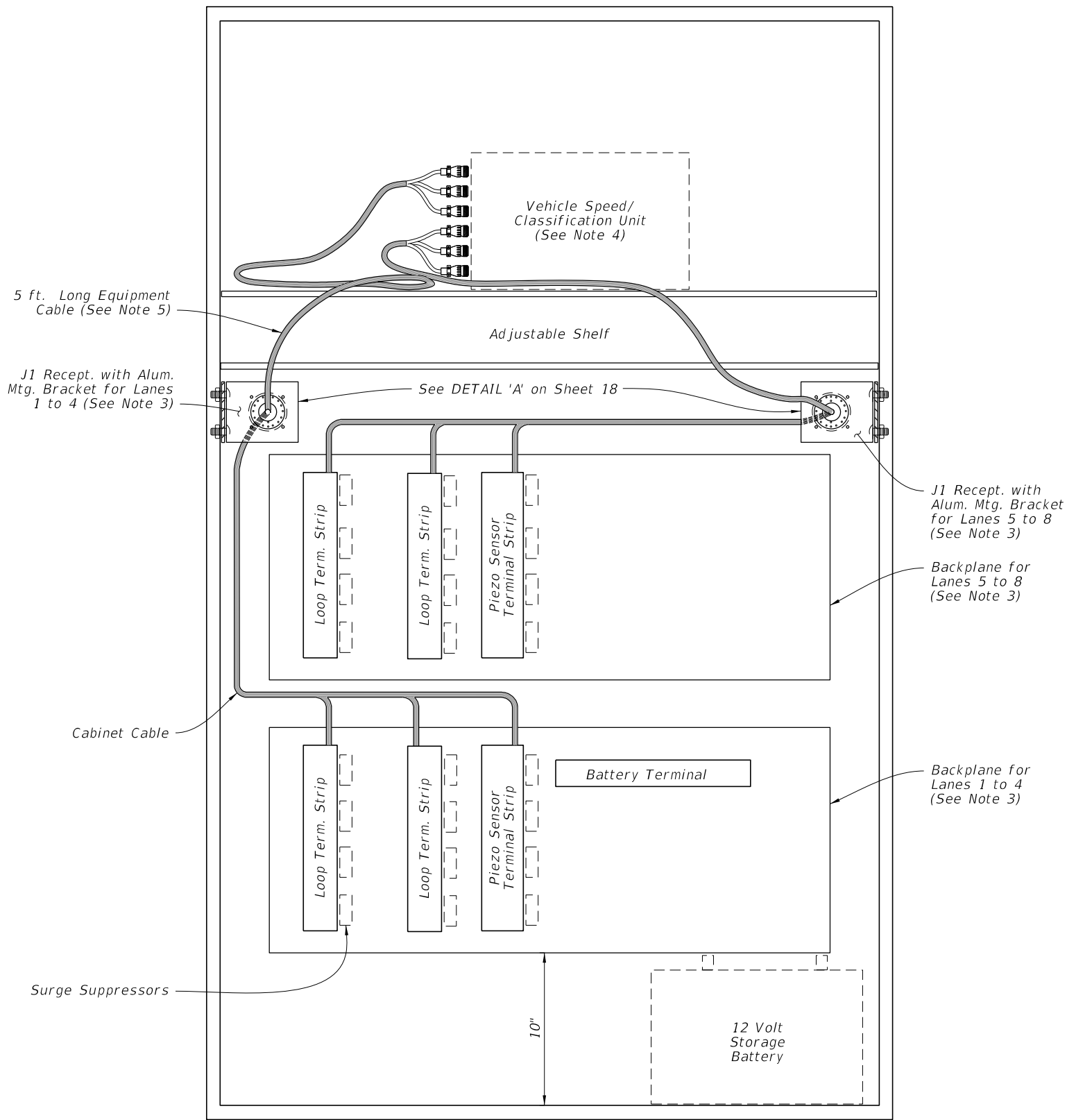
1. Traffic monitoring site cabinet includes:
 - A. One adjustable shelf; (equipped as shown)
 - B. One backplane assembly; (equipped as shown)
 - C. One J1 receptacle with mounting bracket;
 - D. One P1 equipment cable 5 ft. long (See Sheet 4);
 - E. All associated wiring and wiring harnesses.
2. Basic backplane assembly consists of:
 - A. Two inductive loop terminal strips;
 - B. One piezo sensor terminal strip;
 - C. One battery terminal strip.
3. The contractor is responsible for contacting the District Data Collection Coordinator for lane numbering.
4. Provide and install a Speed/Classification Unit.
5. Cable ends must be fabricated to fit the vehicle speed/classification unit. See Sheet 4 for Pinout Charts, receptacle and plug details.

CABINET LAYOUT DETAILS
(Four Lanes or Less)

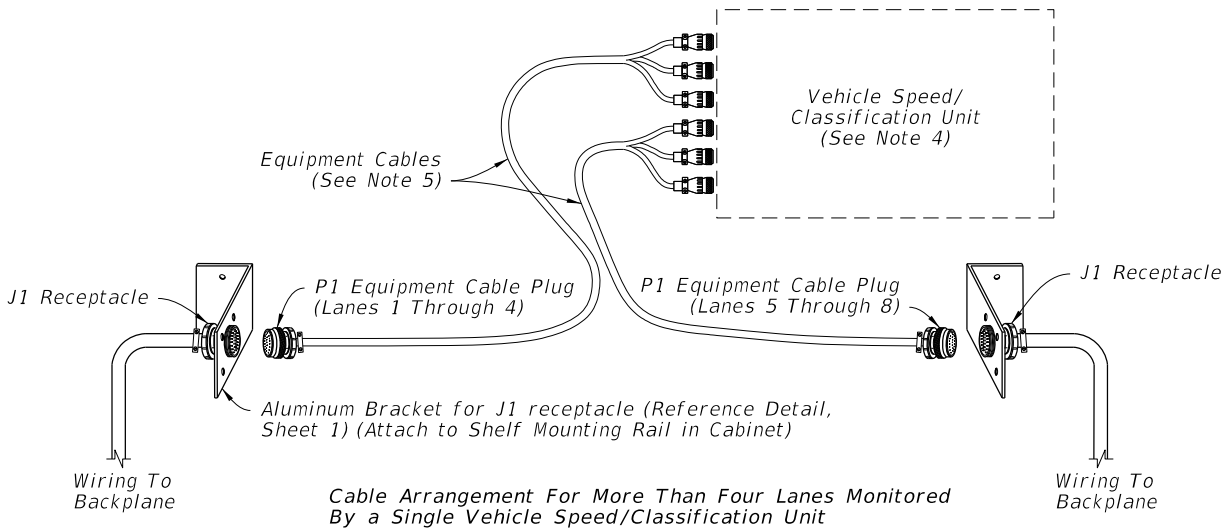
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LAST REVISION		DESCRIPTION:		FY 2025-26	TRAFFIC MONITORING SITE	INDEX	SHEET
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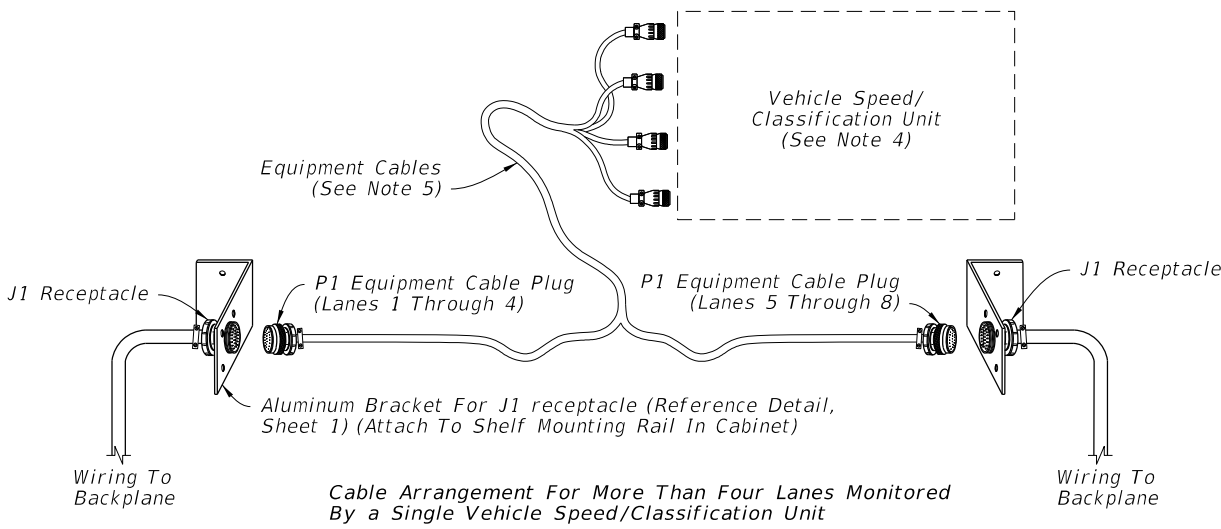
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CABINET LAYOUT DETAILS
(Five to Eight Lanes)



OPTION A
(Shown)



OPTION B

EQUIPMENT CABLE ASSEMBLY

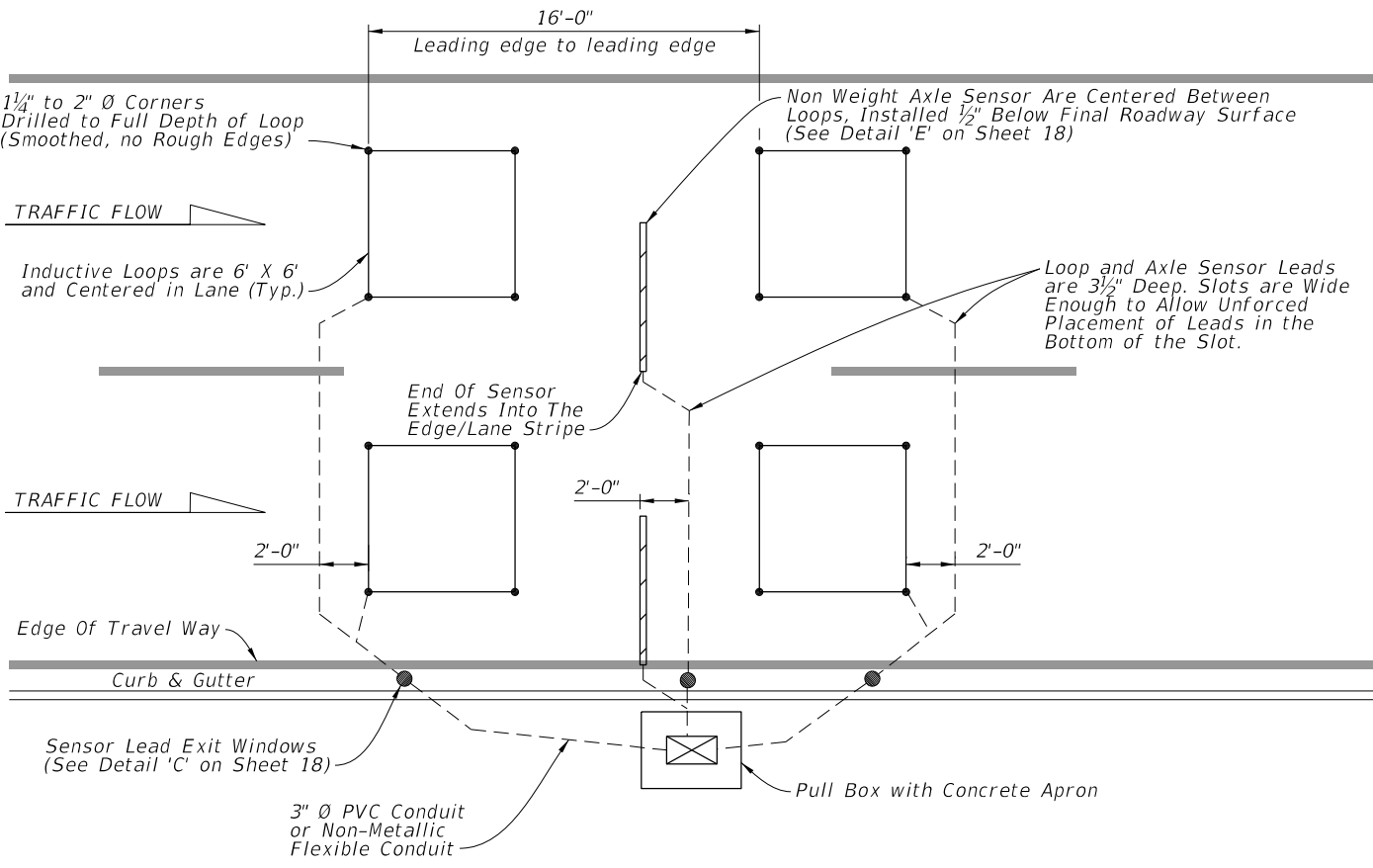
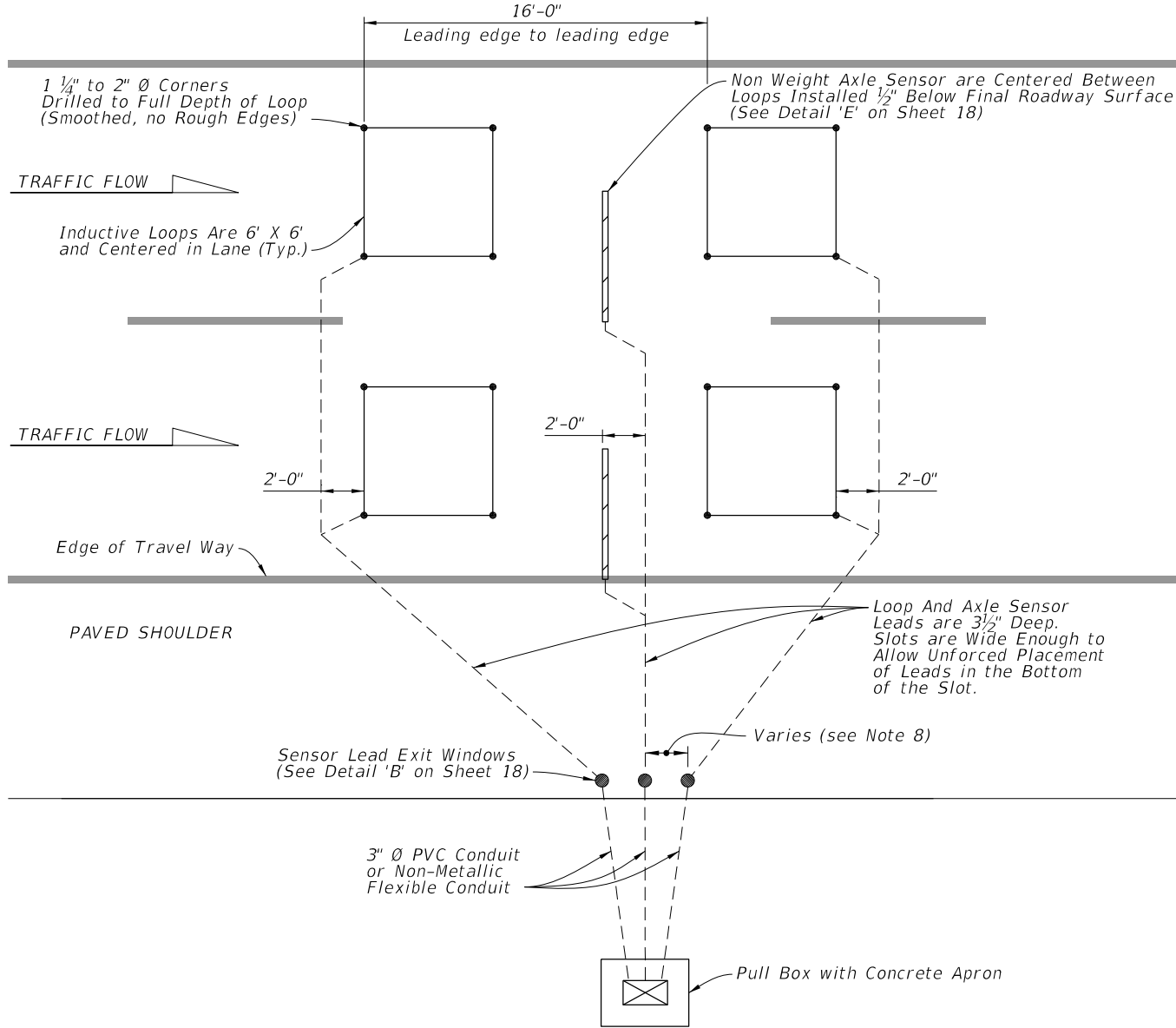
NOTES:

- Traffic monitoring site cabinet includes:
 - One adjustable shelf; (equipped as shown)
 - Two backplane assembly; (equipped as shown)
 - Two J1 receptacle with mounting bracket;
 - One P1 equipment cable 5 ft. long (See Sheet 4);
 - All Associated wiring and wiring harnesses.
- Basic backplane assembly consists of:
 - Two inductive loop terminal strips;
 - One piezo sensor terminal strip;
 - One battery terminal strip.
- The contractor is responsible for contacting the TMS Manager in the Transportation Data and Analytics Office for lane number information and verification.
- Provide and install Speed/Classification Unit.
- Cable ends must be fabricated to fit the vehicle speed/classification unit. See Sheet 4 for Pinout Charts, receptacle and plug details.

2026-27

SHORT TERM TRAFFIC MONITORING SITE - PTMS

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ROADWAYS WITH PAVED SHOULDERS

NOTES:

1. Install axle sensors and loops associated with axle sensors after placement of the friction course.
2. Cut a 3 1/2" deep slot for the Inductive loops. Loop slots will be cut wide enough to allow unforced placement of the wire into the bottom of the slot. Place four turns of #14 AWG IMSA 51-7 copper wire in the slot. Place short pieces of backer rod (2" to 3" in length) every 18" to 24" to hold the loop wire in the bottom of the slot.
3. Twist loop leads at the rate of 8 to 16 twists per foot. Extend the twisted pair loop wire directly to the cabinet. No splicing of the loop leads will be permitted.
4. Marking will consist of two rounds of contrasting colored tape, one color for the lane number and the second color for the lead loop location in the lane. The first band closest to the lane number, one round of tape will be for lane 1 and two rounds will be lane 2, etc. The lead loop in lane one would have one round of tape and a second round of a contrasting color. The trailing loop would not have a second contrasting colored band of tape.
5. See Index 635-001 for pull box and concrete apron details.
6. Use a chalk line or string and paint to layout the position of the sensor and lead-in cable slots. Ensure saw cuts do not deviate more than 1/2" from the chalk line. Use a single blade or ganged blade saw wide enough to cut the axle sensor slot at full width in a single pass. Cutting two slots and chipping out roadway material between them is not allowed.
7. All sensor slots and any cuts in the roadway will be thoroughly blown out to ensure there is no dust or debris prior to installation of sensors or leads.
8. Install Exit Windows at least 2' apart.

LANE LAYOUT FOR PTMS INDUCTIVE LOOP AND AXLE SENSORS
(Typical for up to 4 Lanes of Sensor Leads Pulled to one Side of the Roadway)

ADDED TO NOTE 2:
and start wire twist at
the beginning of the
home run slot.

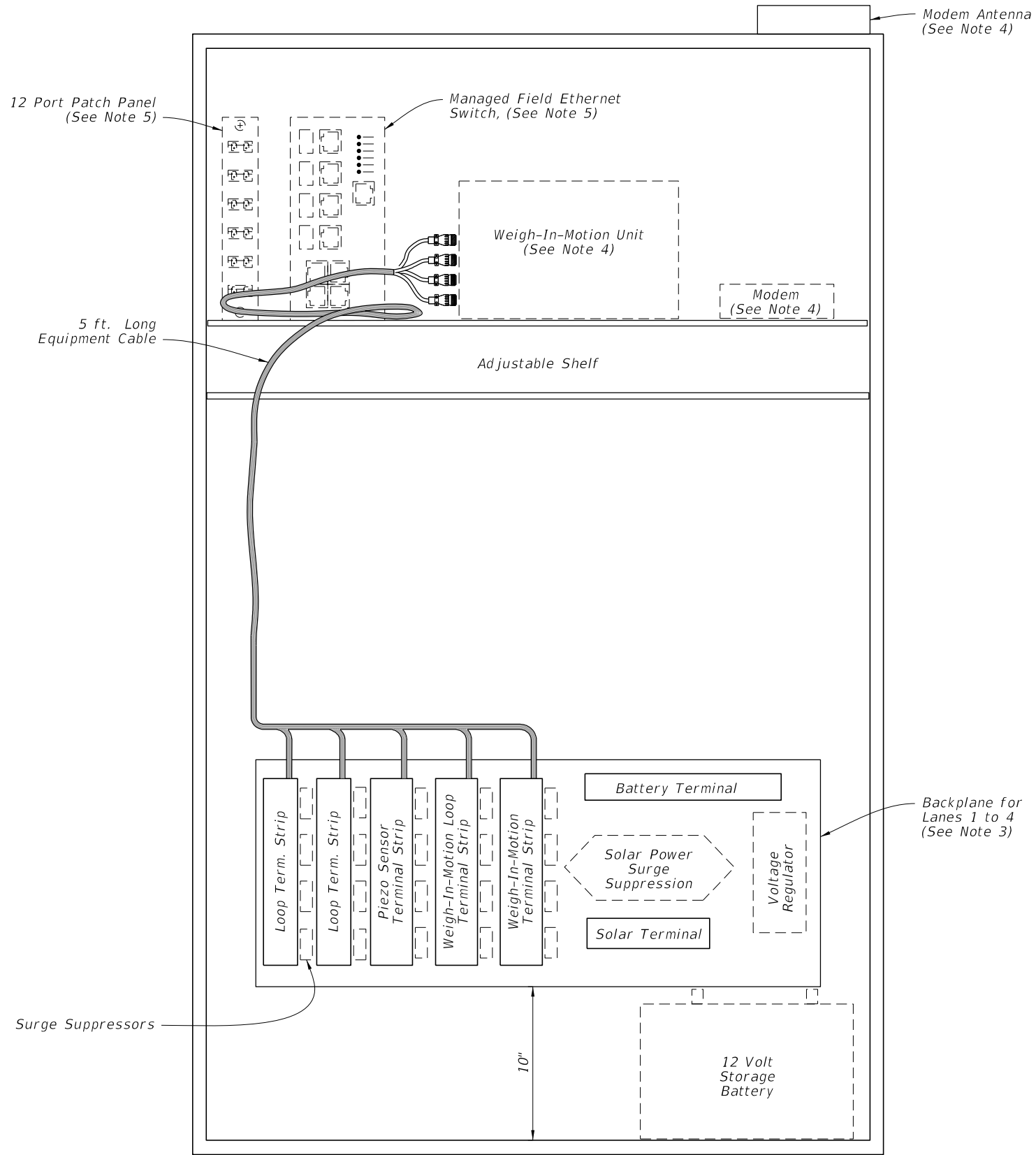
ADDED TO NOTE 3:
Install a home run slot with a minimum width of 5/8".

21

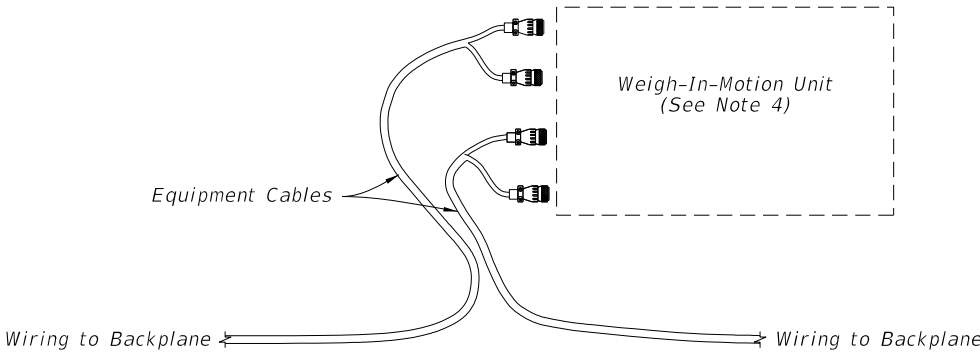
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				SHORT TERM TRAFFIC MONITORING SITE - PTMS	

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CABINET LAYOUT DETAILS



EQUIPMENT CABLE ASSEMBLY

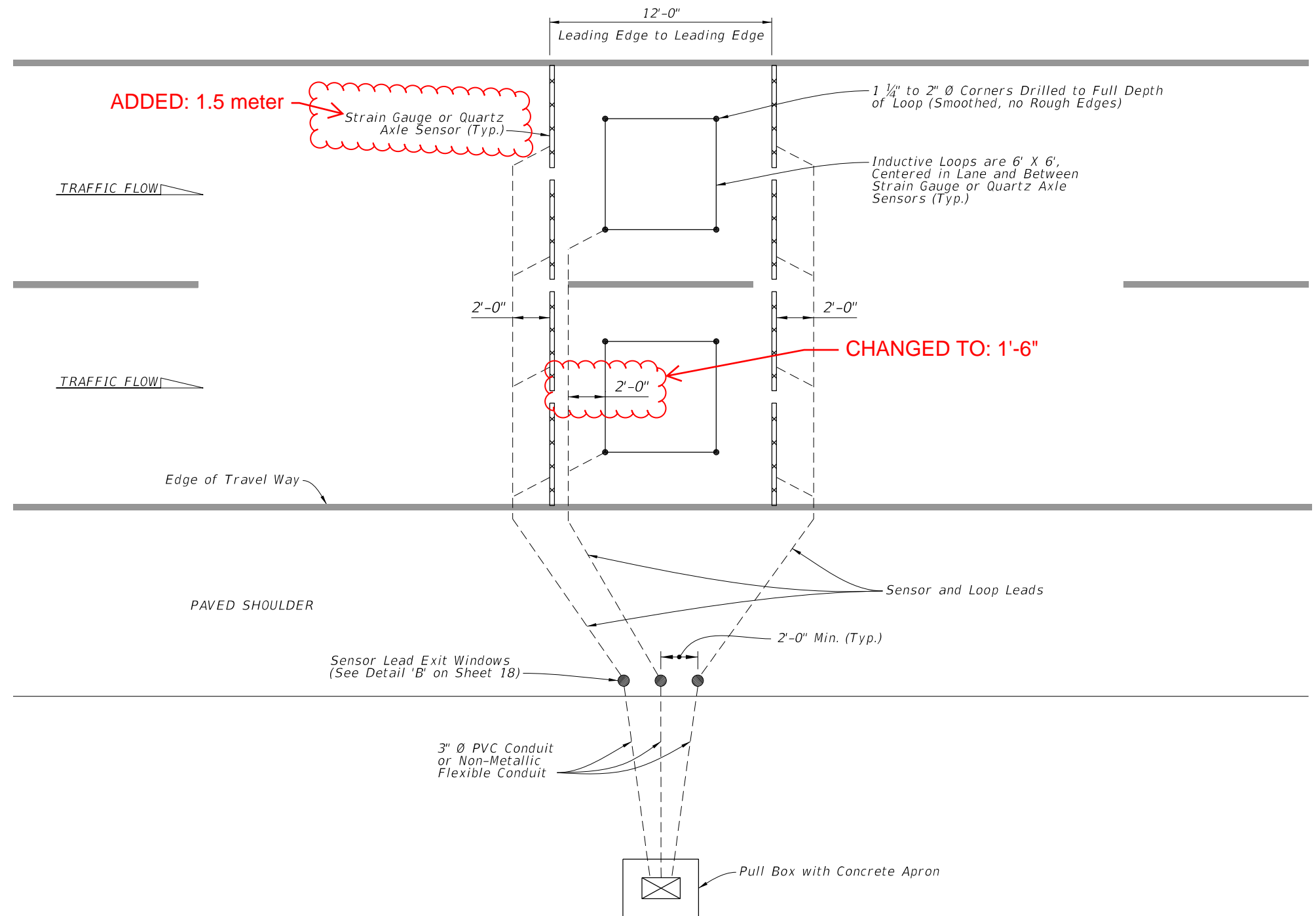
- NOTES:
- Traffic monitoring site cabinet includes:
 - A. One adjustable shelf; (equipped as shown)
 - B. One backplane assembly; (equipped as shown)
 - C. All associated wiring and wiring harnesses.
 - Basic backplane assembly consists of:
 - A. Two inductive loop terminal strips;
 - B. One piezo sensor terminal strip;
 - C. Two weigh-in-motion terminal strips;
 - D. One battery terminal strip;
 - E. One solar panel terminal strip.
 - The contractor is responsible for contacting the TMS Manager at the Transportation Data and Analytics Office for lane number information and verification.
 - Provide and install a Weigh-In-Motion Unit, Modem, and Antenna.
 - Provide and install a 12-fiber single mode cable, a 12-port patch panel, and a managed field ethernet switch.

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NOTES:

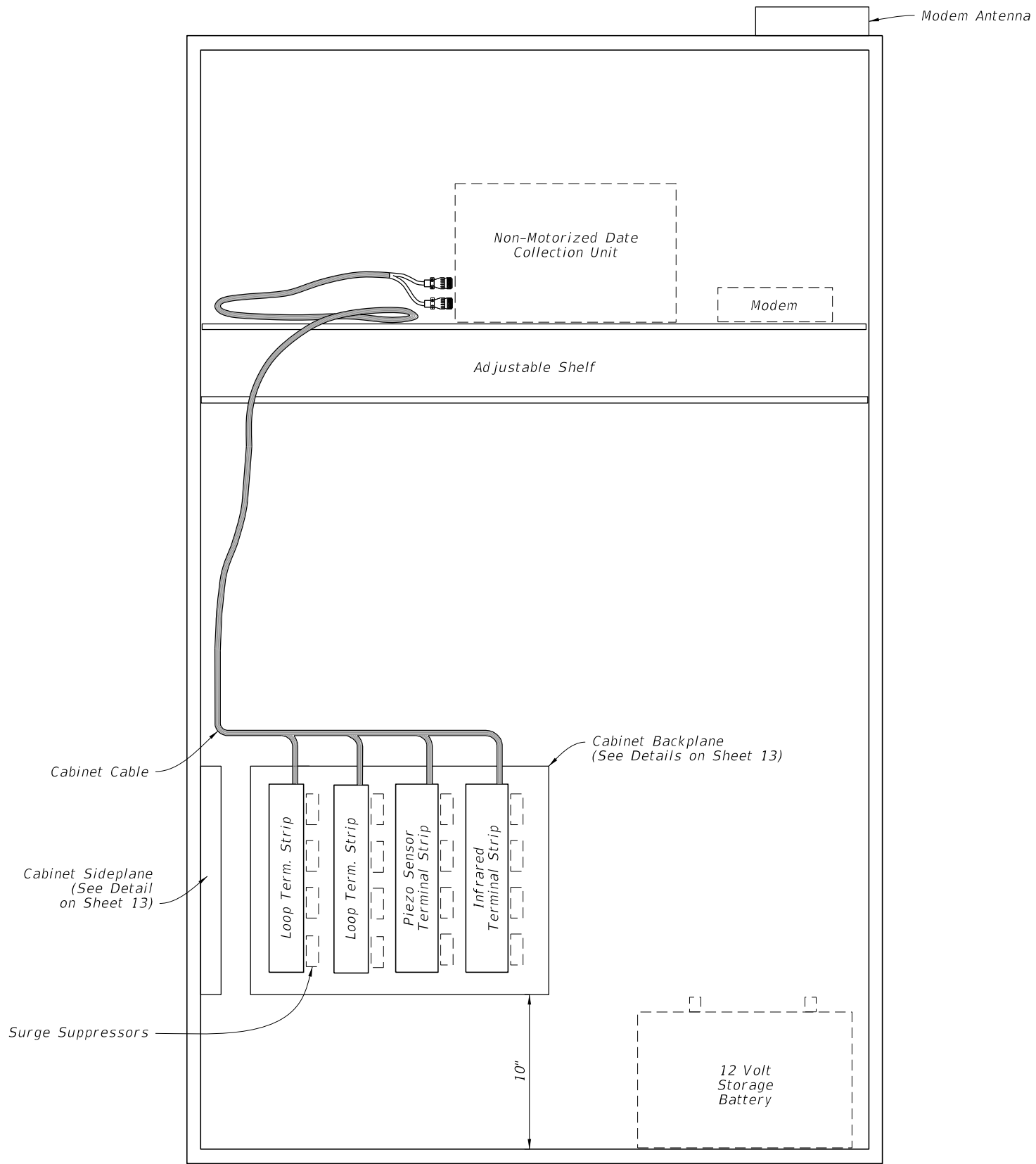
1. Install axle sensors and loops associated with axle sensors after placement of the friction course.
2. Cut a 3½" deep slot for the Inductive loops. Loop slots will be cut wide enough to allow unforced placement of the wire into the bottom of the slot. Place four turns of #14 AWG IMSA 51-7 copper wire in the slot. Place short pieces of backer rod (2" to 3" in length) every 18" to 24" to hold the loop wire in the bottom of the slot.
3. Twist loop leads at the rate of 8 to 16 twists per foot. Extend the twisted pair loop wire directly to the cabinet. No splicing of the loop leads will be permitted.
4. Marking will consist of two rounds of contrasting colored tape, one color for the lane number and the second color for the lead loop location in the lane. The first band closest to the cabinet will represent the lane number, one round of tape will be for lane 1 and two rounds will be lane 2, etc. The lead loop in lane one would have one round of tape and a second round of a contrasting colored tape for the lead loop in the lane. The trailing loop would not have a second contrasting colored band of tape.
5. See Index 635-001 for pull box and concrete apron details.
6. Use a chalk line or string and paint to layout the position of the sensor and lead-in cable slots. Ensure saw cuts do not deviate more than ½" from the chalk line. Install the sensor according to manufacturer's recommendations.
7. All sensor slots and any cuts in the roadway will be thoroughly blown out to ensure there is no dust or debris prior to installation of sensors or leads.
8. Install Exit Windows at least 2' apart.



LANE LAYOUT FOR TTMS/CCS INDUCTIVE LOOP AND WEIGH-IN-MOTION SENSORS

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- NOTES:
- 1. Traffic monitoring site cabinet includes:
 - A. One adjustable shelf; (equipped as shown)
 - B. One backplane assembly; (equipped as shown)
 - C. One sideplane assembly; (equipped as shown);
 - D. Infrared sensor and piezo sensor cables.
 - 2. Basic backplane assembly consists of:
 - A. Two inductive loop terminal strips;
 - B. One piezo sensor terminal strip;
 - C. One infrared sensor terminal strip;
 - 3. Basic sideplane assembly consists of:
 - A. One battery terminal strip;
 - B. One solar panel terminal strip.

CABINET LAYOUT DETAILS

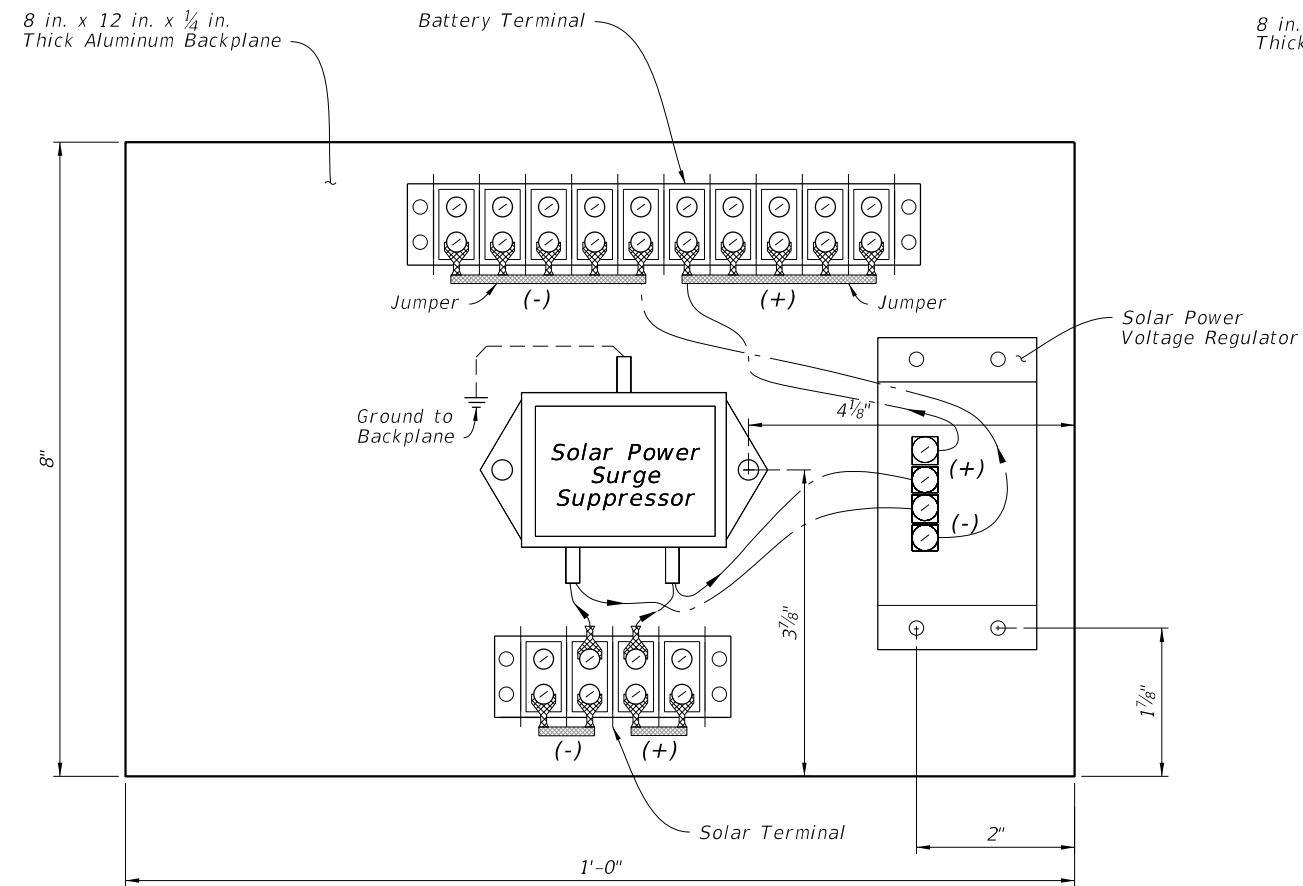
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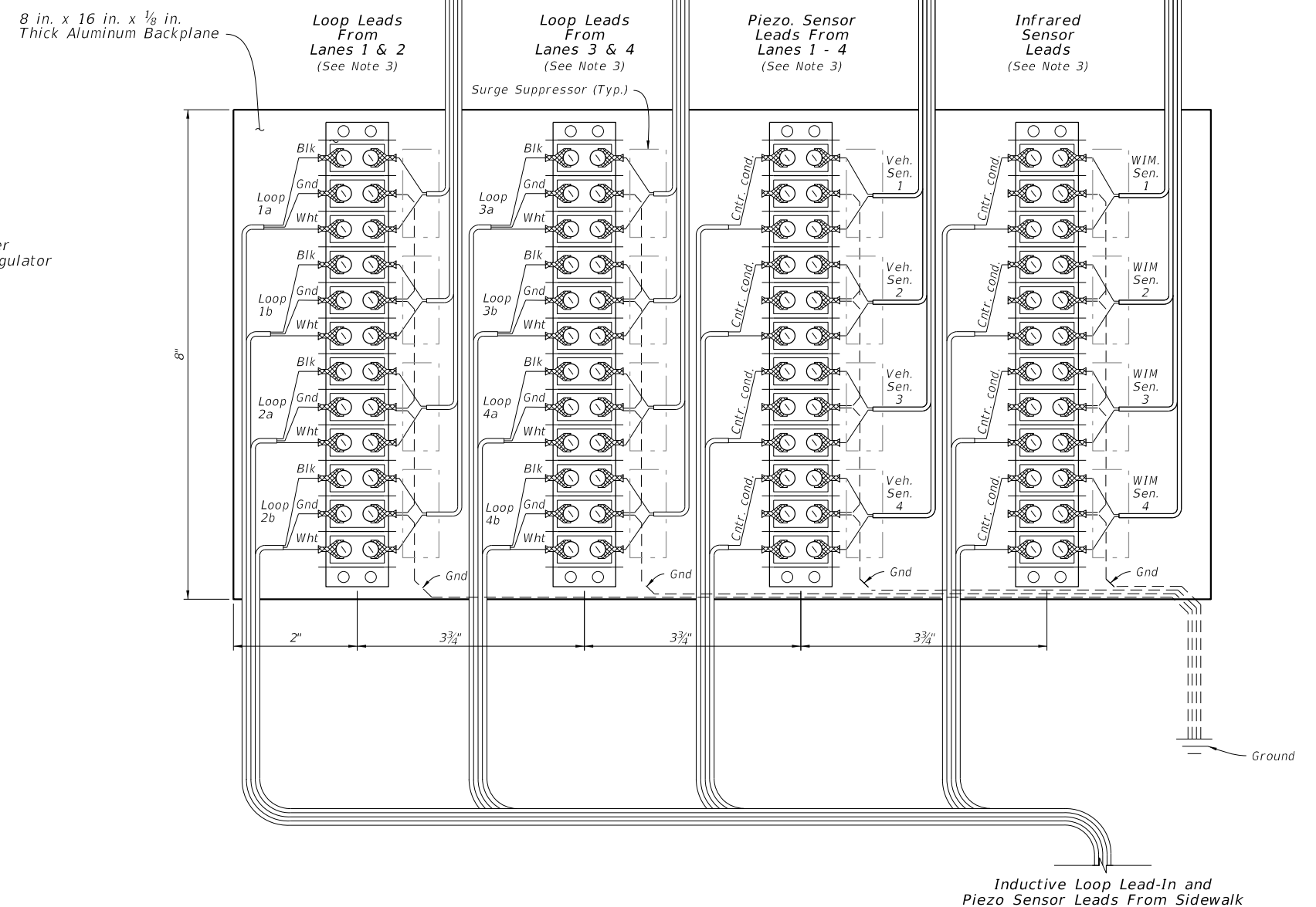
21
NON-MOTORIZED MONITORING SITE

NOTES:

- Reference Sheet 12, Note 2 for items to be included with backplane.
- All terminal strip contacts are on $\frac{9}{16}$ " centers (Cinch 142 Series or equal)
Use insulated fork wire terminations.
- The contractor is responsible for contacting the TMS Manager in the Transportation Data and Analytics Office for lane number information and verification.



CABINET SIDEPLANE DETAILS

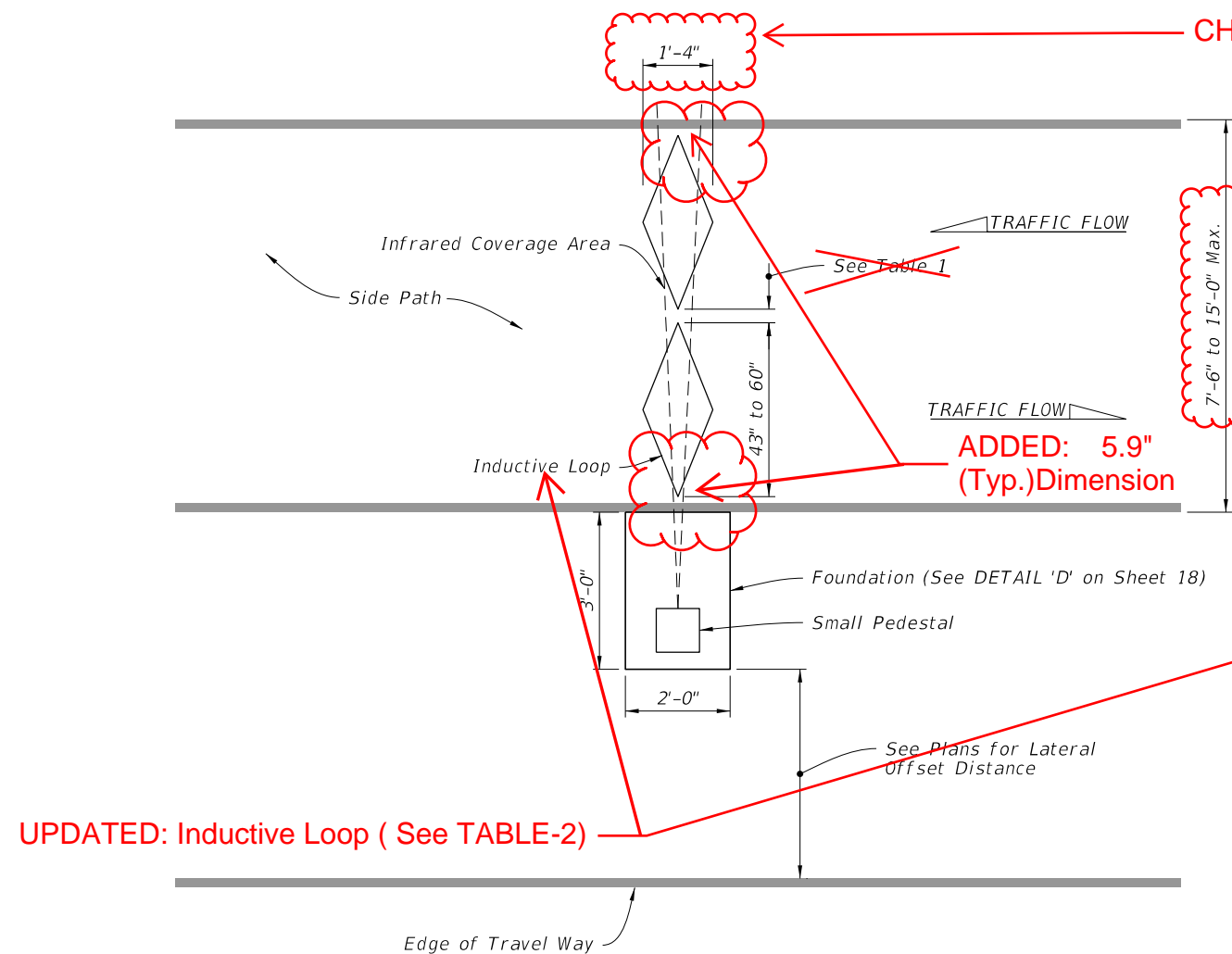


CABINET BACKPLANE DETAILS

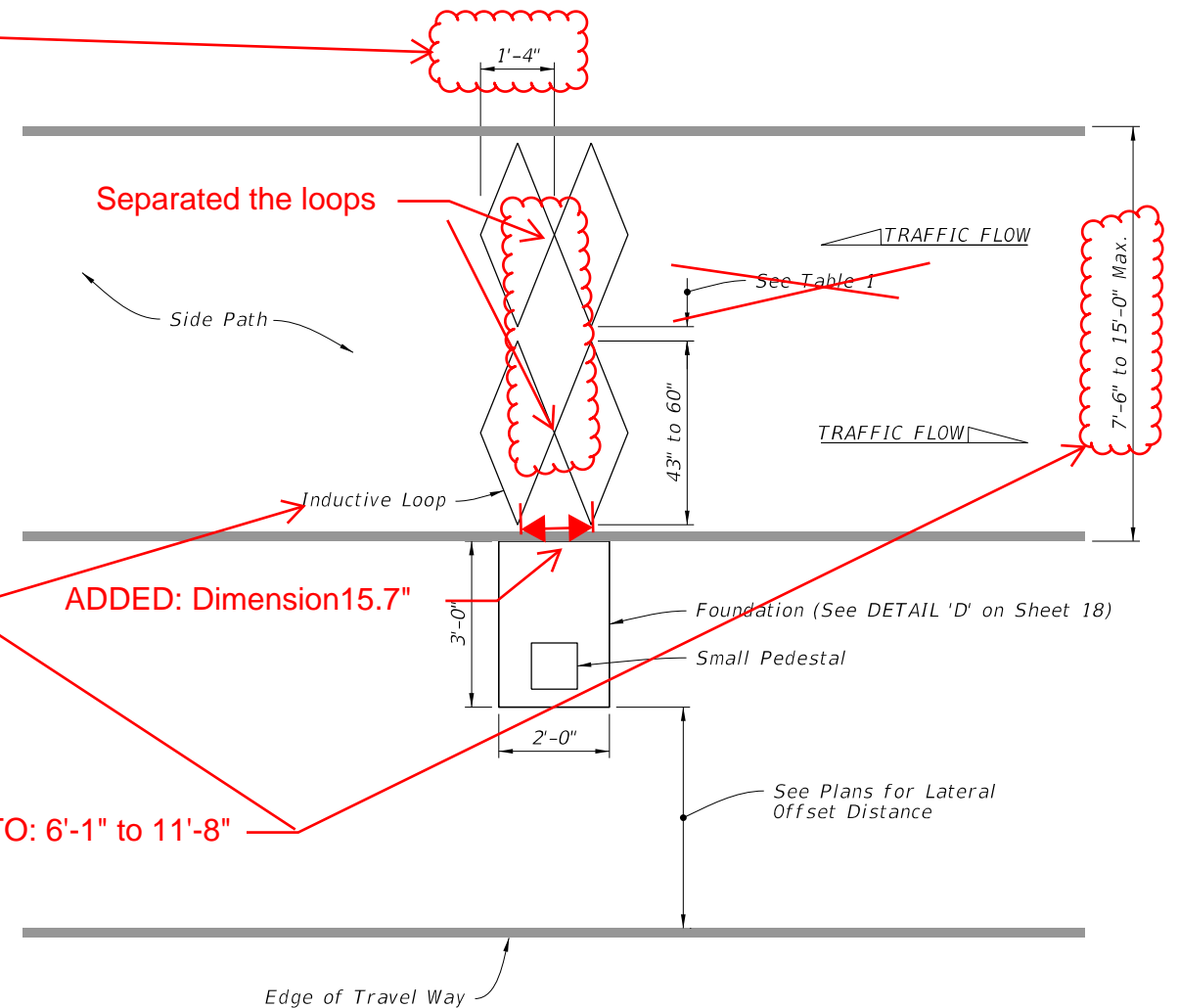
2026-27

NON-MOTORIZED MONITORING SITE

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===== DUAL LOOP ASSEMBLY =====
(Directional Recognition With Infrared)



===== QUAD LOOP ASSEMBLY =====
(Directional Recognition Without Infrared)

TABLE 1 2	
Loop Length	Distance
Greater than 59"	Contact Manufacturer to evaluate the feasibility
59"	3.00"
55"	4.00"
51"	4.75"
47"	5.50"
43"	6.25"
Less than 43"	Contact Manufacturer to evaluate the feasibility

CHANGED TO:
Medium Shared use Path Configurations

~~LARGE SHARED USE PATH CONFIGURATIONS~~

2026-27

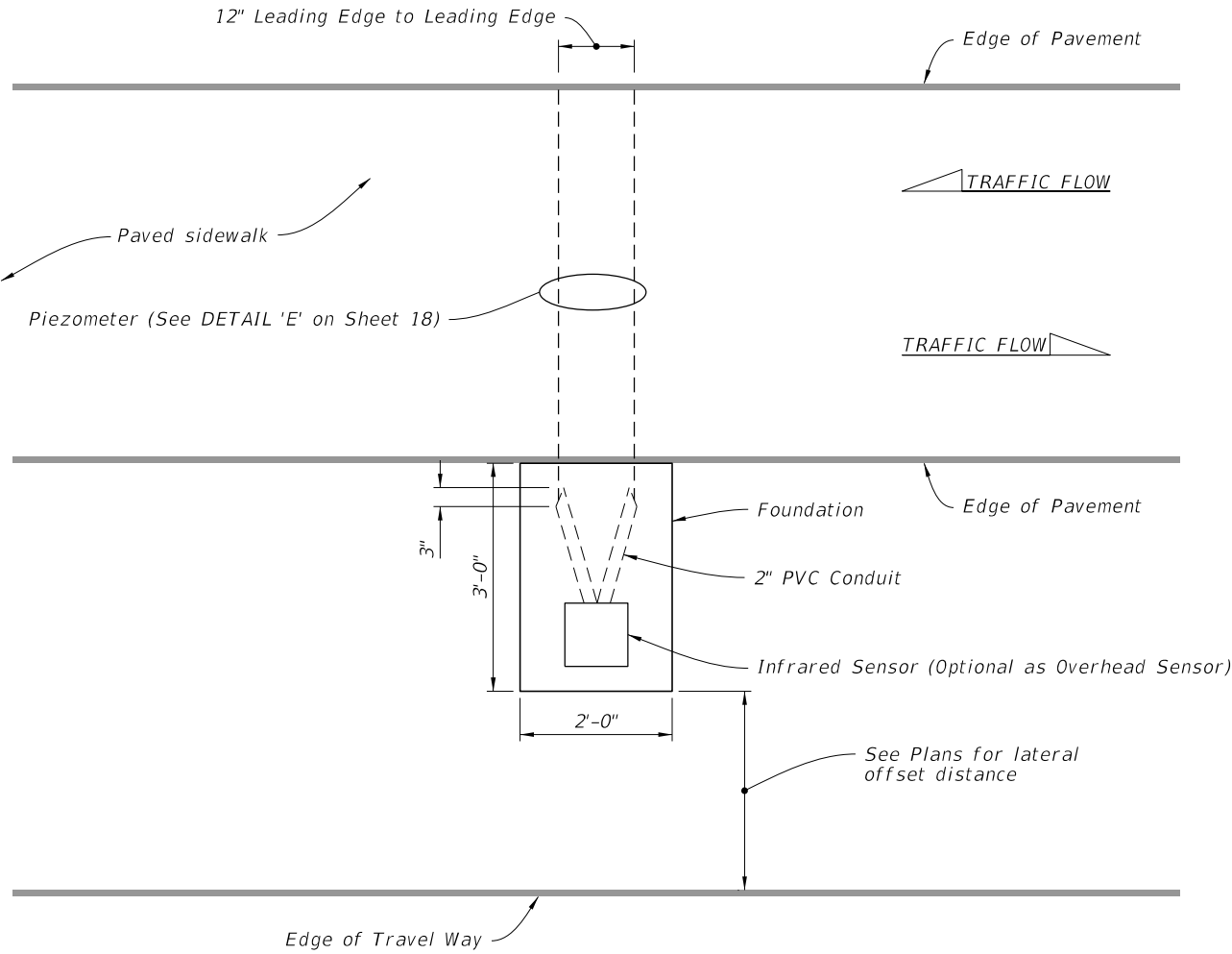
~~NON-MOTORIZED MONITORING SITE~~

ADDED:
New page 17

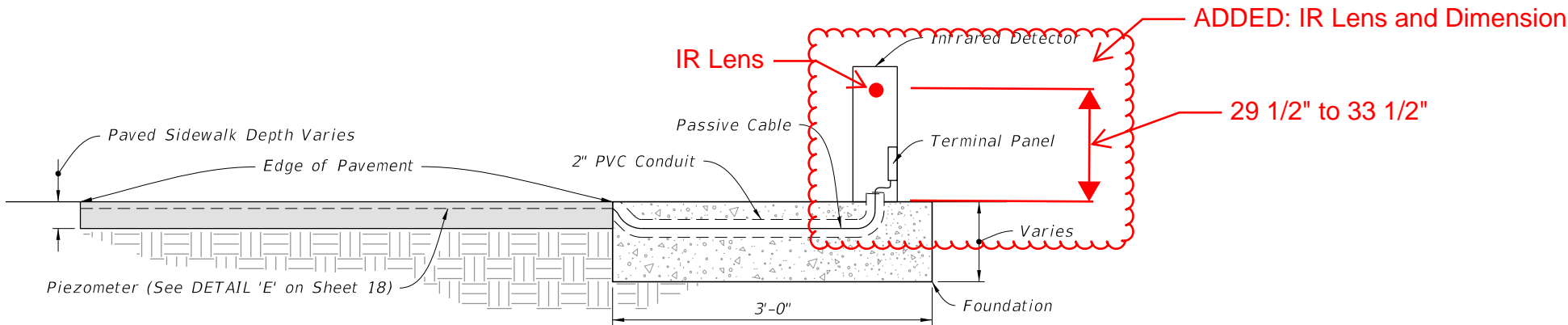


Extra Large Shared Use Path Configurations four loop & quadruple assemblies

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PLAN VIEW




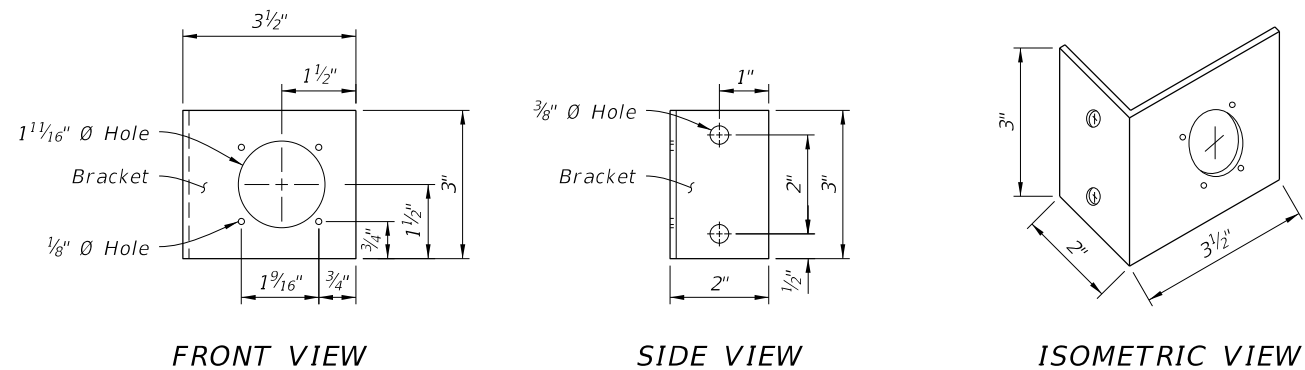
ELEVATION

PAVED SIDEWALK CONFIGURATION

2026-27

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NON-MOTORIZED MONITORING SITE

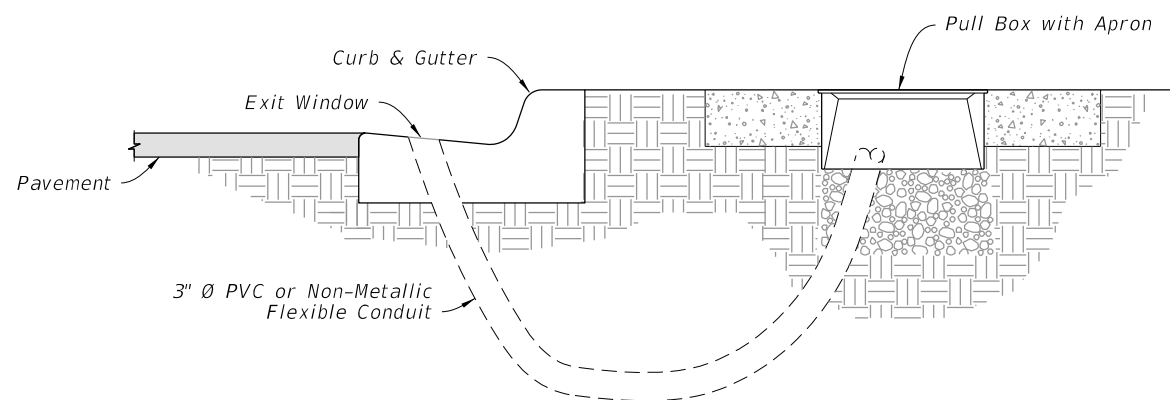
LAST REVISION 11/01/23	DESCRIPTION: 11/01/23 11/01/25	 FY 2025-26 STANDARD PLANS	TRAFFIC MONITORING SITE	INDEX 695-001	SHEET 17 of 20
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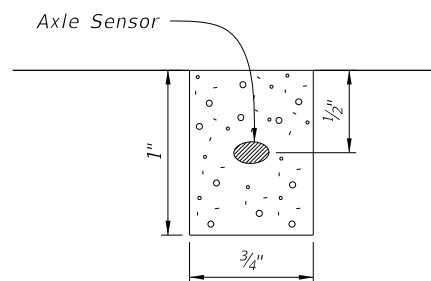
NOTE:
Fabricate bracket out of $\frac{3}{32}$ " - $\frac{1}{8}$ " inch thick aluminum. Dimensions may vary depending on the manufacturer of the J1 receptacle being furnished. The cabinet manufacturer will construct the mounting bracket to fit the receptacle.

J1 MOUNTING BRACKET

DETAIL 'A'

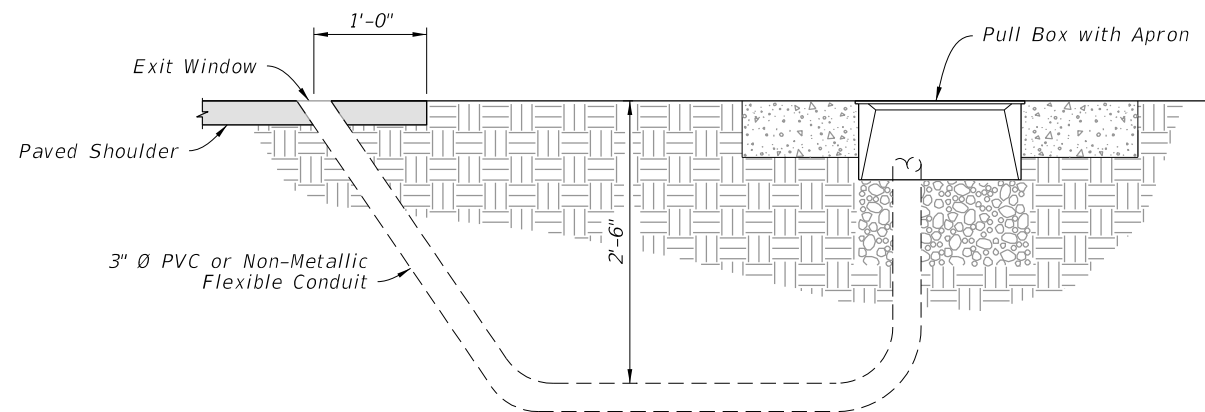


DETAIL 'C'

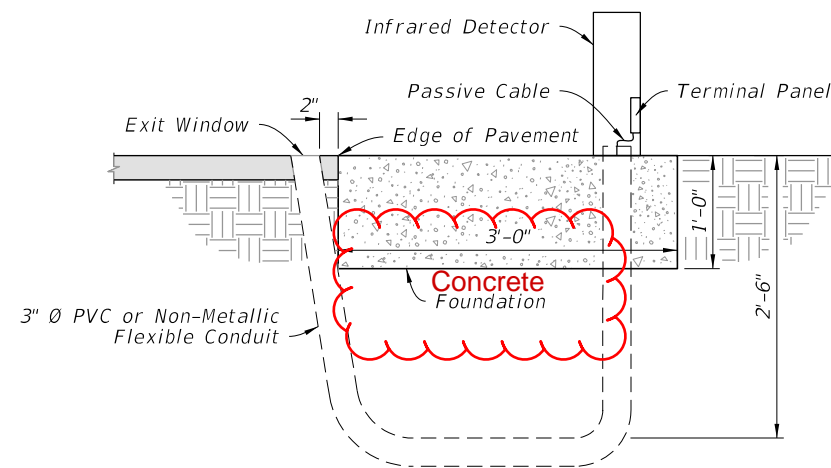


**END VIEW
(Axle Sensor Slot)**

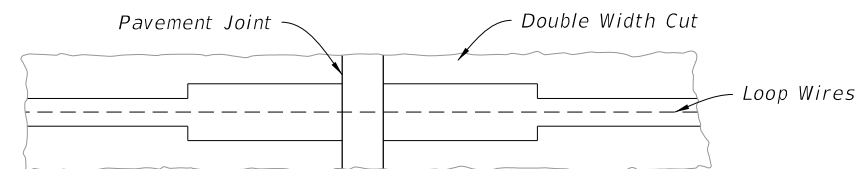
DETAIL 'E'



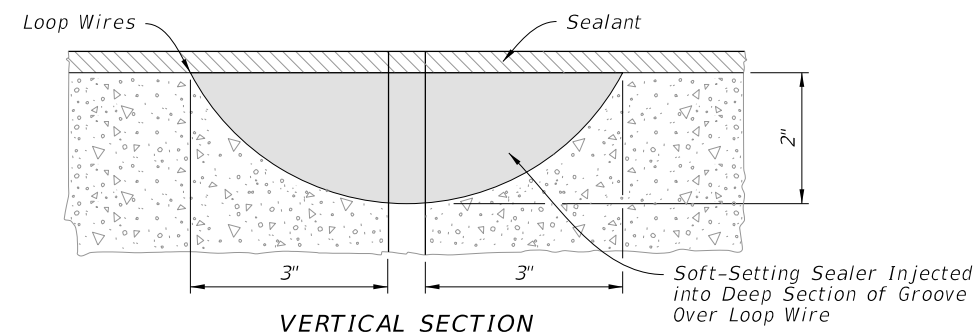
DETAIL 'B'



DETAIL 'D'



PLAN VIEW




VERTICAL SECTION

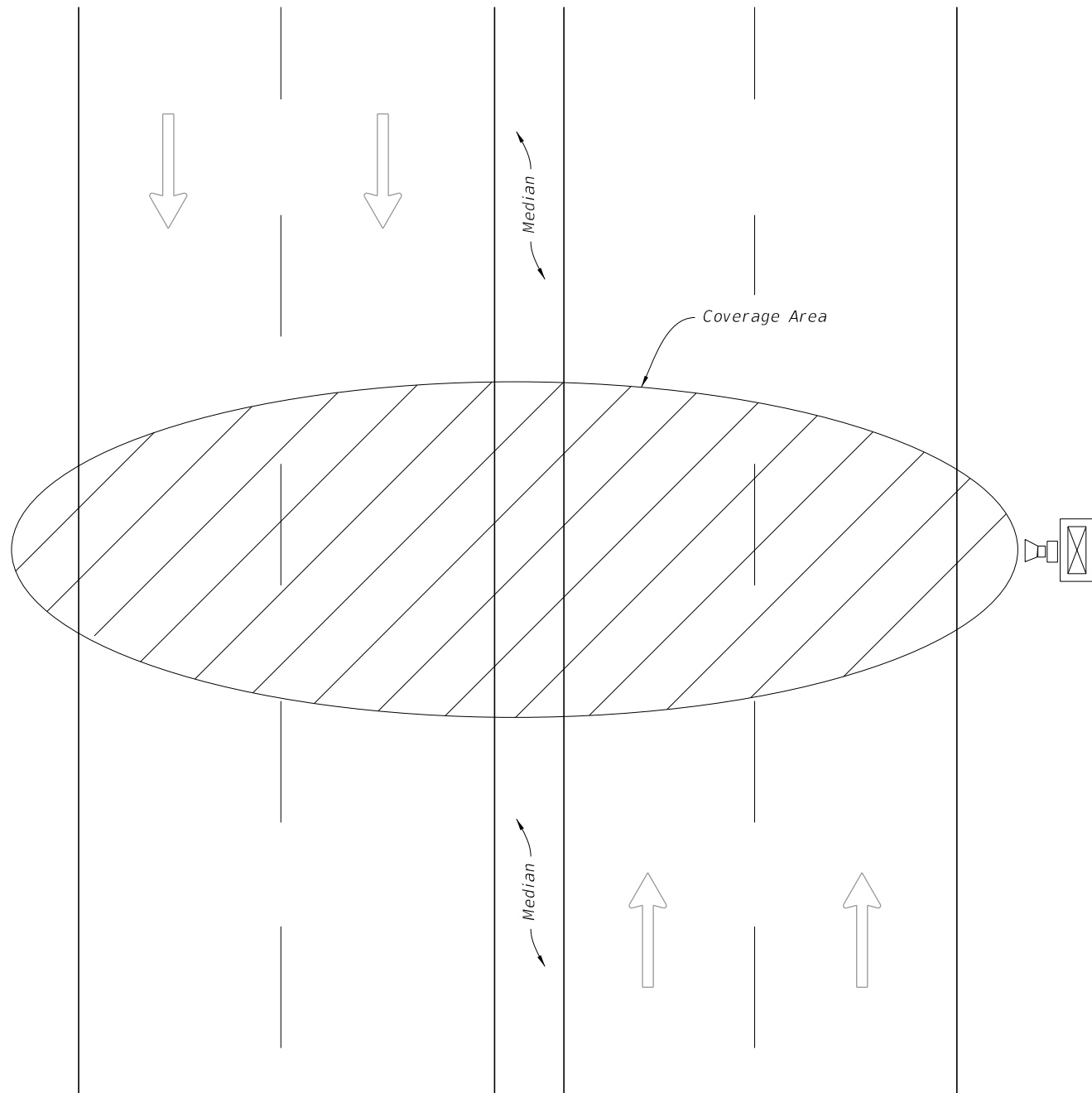
DETAIL 'F'

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DETAILS 'A' THRU 'F'

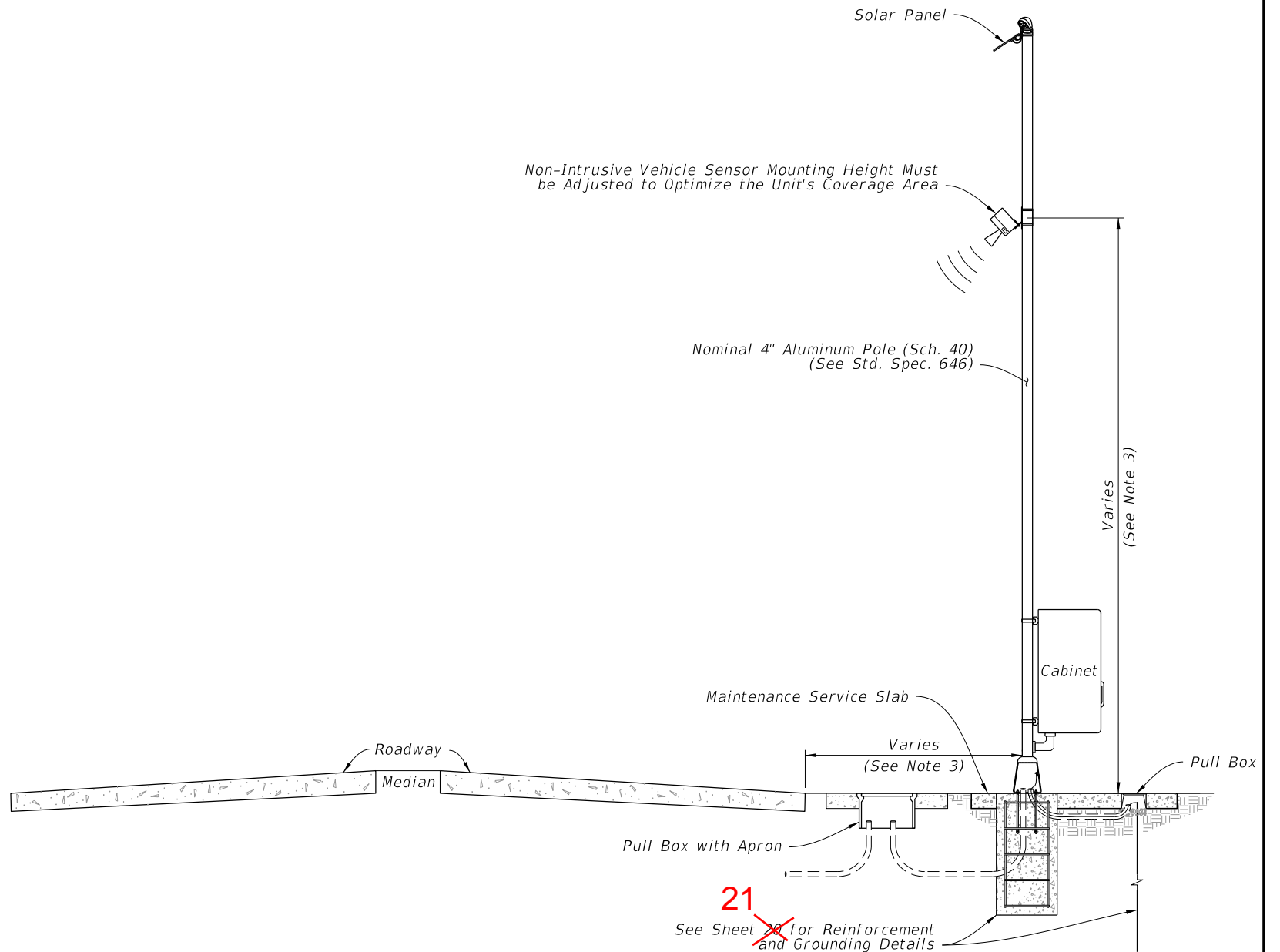
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PLAN



ELEVATION

NOTES:

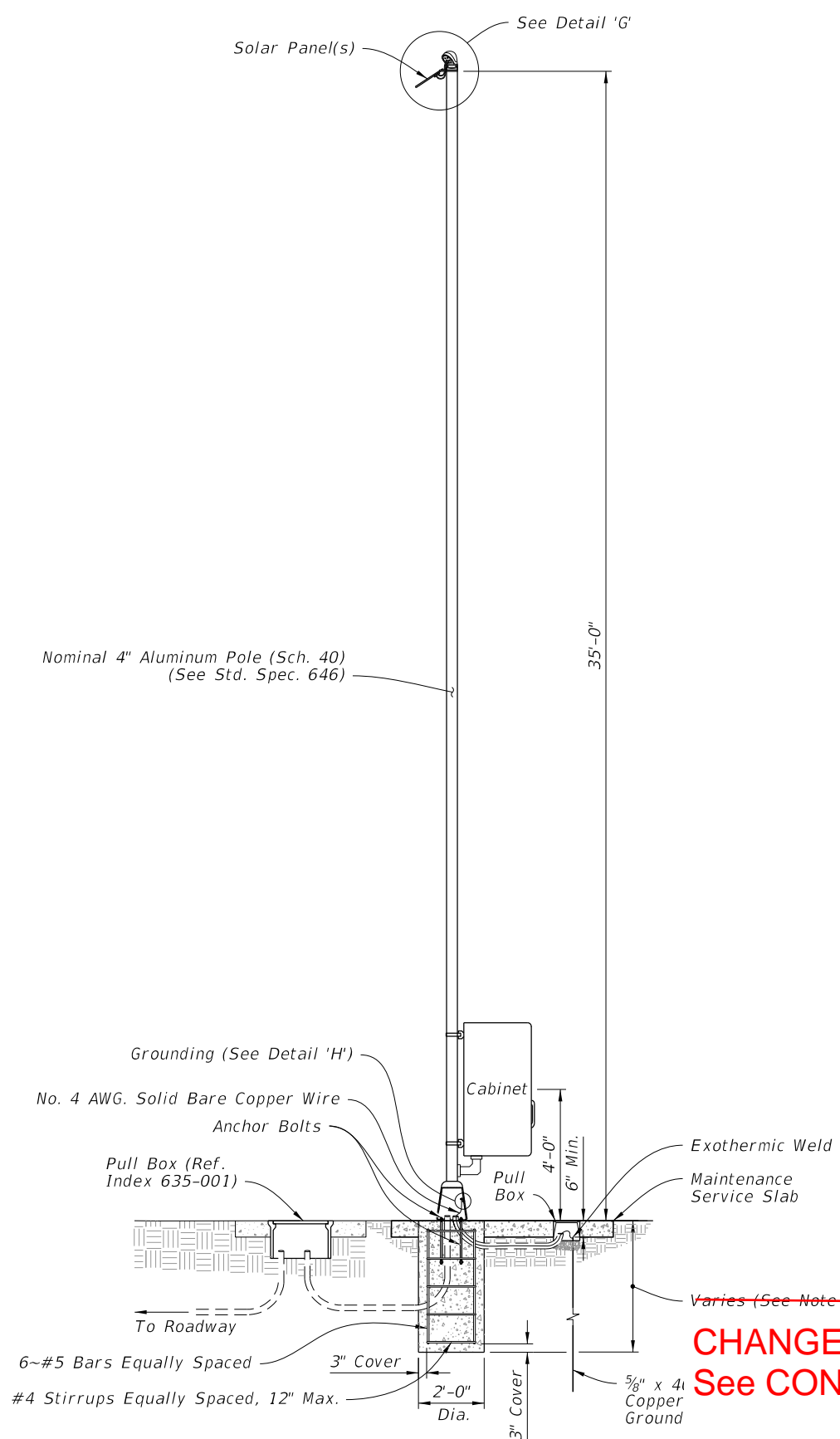
1. The unit must be capable of detecting up to eight lanes of traffic (in either or both directions) when mounted perpendicular to the roadway.
2. Coverage area of the unit is affected by the roadway geometry: distance from the travel lanes, median type and width, barrier walls, etc.
3. Mounting height 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. Offset of pole must be greater than or equal to minimum clear zone requirements.
4. Cabinet, ground rod pull box, and maintenance service slab installed per Index 676-010, except cabinet center will be 4 feet above grade.

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NON-INTRUSIVE VEHICLE SENSOR

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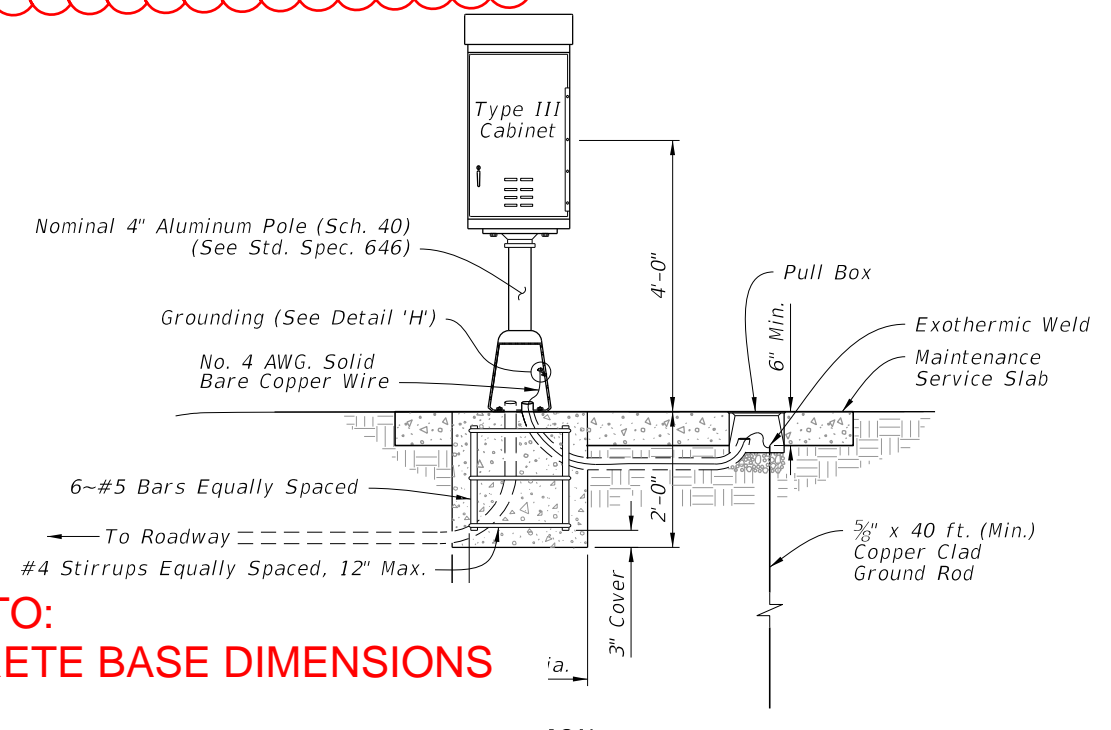
**SOLAR POWER POLE
WITH POLE MOUNTED CABINET**
(Continuous Count Site - TTMS/CCS)

NOTES:

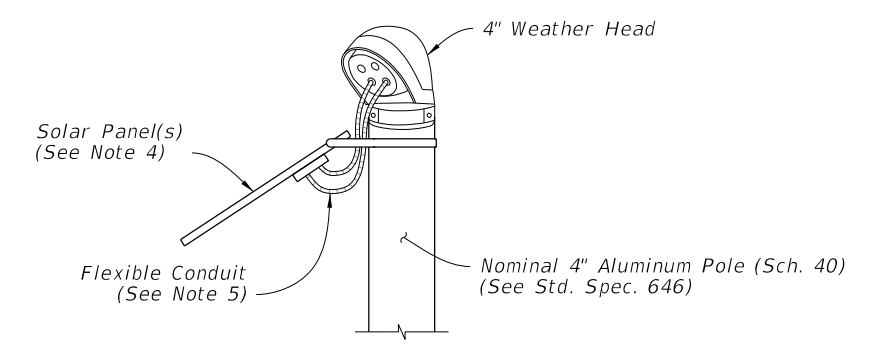
1. Cabinet, ground rod pull box, and maintenance service slab installed per Index 676-010, except cabinet center will be 4 feet above grade.
2. Meet the requirements of Specification 646.
3. Use #10 AWG stranded copper wire for Solar Panel Array installations, Red insulation is THHN or THWN for positive 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.
4. Solar panel should be installed facing due south with angle of tilt equal to the sum of the following equation. The Latitude of the panel's location, multiplied by 0.76, plus 3.1 degrees. Equation expressed as $(LAT) \times (0.76) + (3.1^\circ)$
5. Encase all wiring from the weather head to the solar panel in outdoor flexible conduit.

- ~~Concrete Base Dimensions:~~
- a. 4' poles: depth of 2'-0"
 - b. 12' or 15' poles: depth of 3'-0"
 - c. 20' or 30' poles: depth of 4'-0"

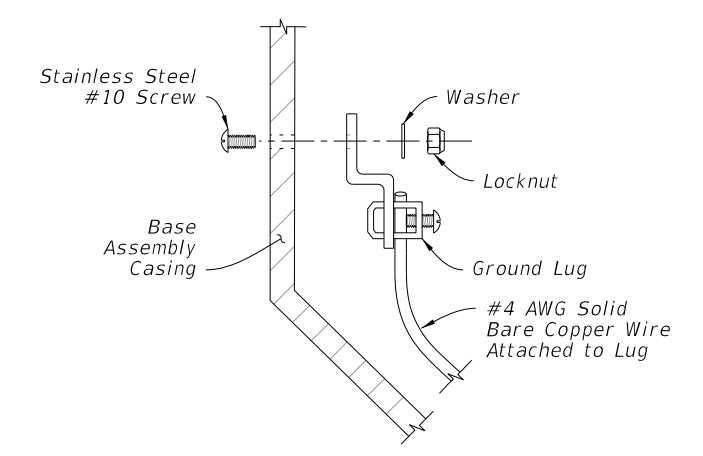
**UPDATED: Pulled
Note 6 out as its
own Note.**



PEDESTAL MOUNTED CABINET
(Short Term Traffic Monitoring Sites - PTMS)



DETAIL 'G'



DETAIL 'H'

**CHANGED TO:
See CONCRETE BASE DIMENSIONS**

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SOLAR POWER POLE WITH POLE MOUNTED CABINET AND PEDESTAL MOUNTED CABINET DETAILS

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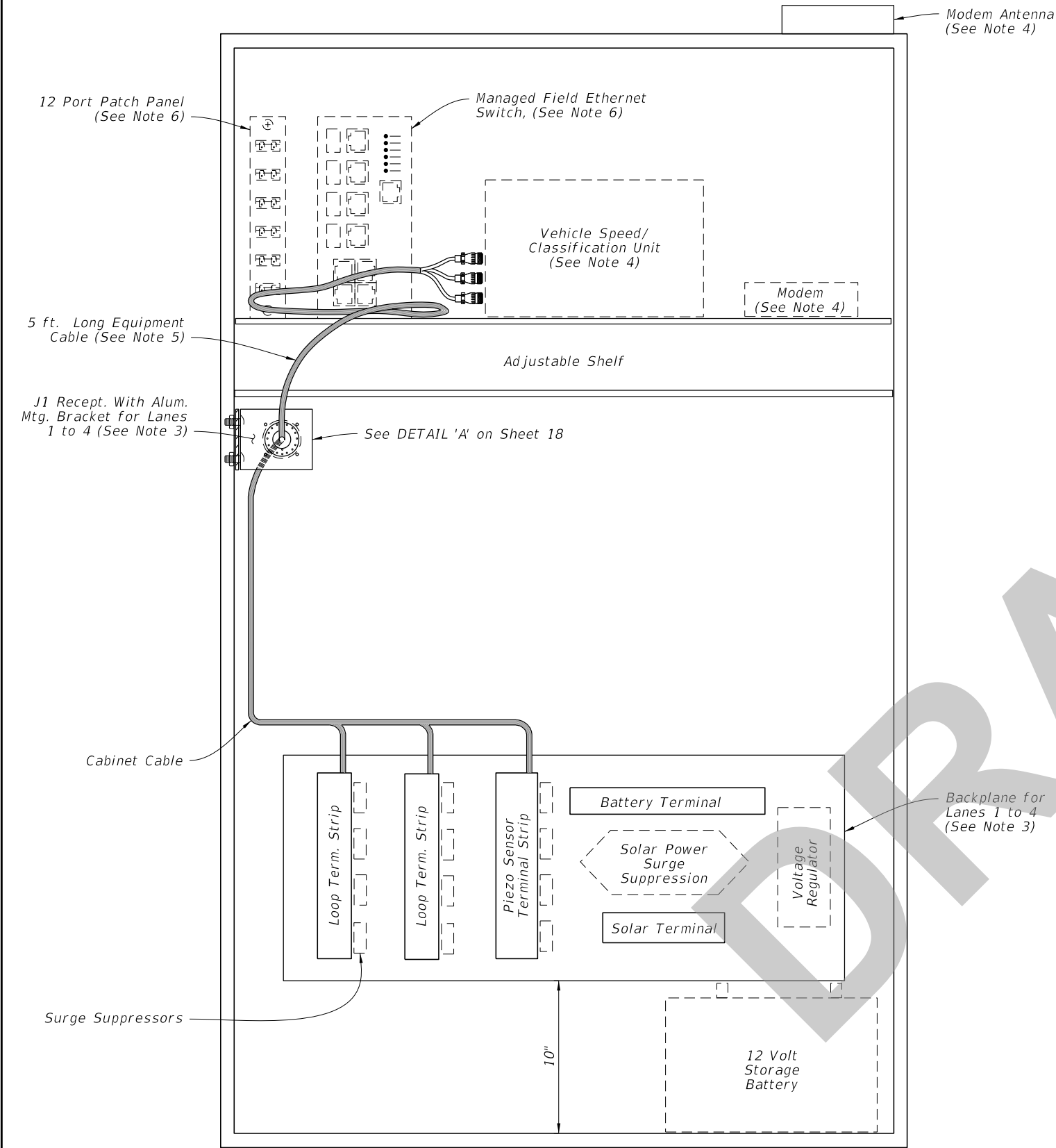


TABLE OF CONTENTS:	
Sheet	Description
1	Continuous Count Station Traffic Monitoring Site - TTMS/CCS - Cabinet Layout Details (Four Lanes or Less)
2	Continuous Count Station Traffic Monitoring Site - TTMS/CCS - Cabinet Layout Details (Five to Eight Lanes)
3	Continuous Count Station Traffic Monitoring site - TTMS/CCS - Cabinet Backplane Details
4	Continuous Count Station Traffic Monitoring Site - TTMS/CCS - Pinout Chart, Receptacle, and Plug Details
5	Continuous Count Station Traffic Monitoring Site - TTMS/CCS - Lane Layout for TMS Inductive Loop and Axle Sensors
6	Short Term Traffic Monitoring Site - PTMS - Cabinet Layout Details (Four Lanes or Less)
7	Short Term Traffic Monitoring Site - PTMS - Cabinet Layout Details (Five to Eight Lanes)
8	Short Term Traffic Monitoring Site - PTMS - Lane Layout for PTMS Inductive Loop and Axle Sensors
9	Weigh-In-Motion Monitoring Site - Cabinet Layout Details
10	Weigh-In-Motion Monitoring Site - Cabinet Backplane Details
11	Weigh-In-Motion Monitoring Site - Lane Layout for TTMS/CCS Inductive Loop and Weigh-In-Motion Sensors
12	Non-Motorized Monitoring Site - Cabinet Layout Details
13	Non-Motorized Monitoring Site - Cabinet Sideplane and Cabinet Backplane Details
14	Non-Motorized Monitoring Site - Regular Side Path Configurations
15	Non-Motorized Monitoring Site - Medium Shared Use Path Configurations
16	Non-Motorized Monitoring Site - Large Shared Use Path Configurations
17	Non-Motorized Monitoring Site - Extra Large Shared Use Path Configurations
18	Non-Motorized Monitoring Site - Paved Sidewalk Configuration
19	Details 'A' thru 'F'
20	Non-Intrusive Vehicle Sensor
21	Solar Power Pole With Pole Mounted Cabinet and Pedestal Mounted Cabinet Details

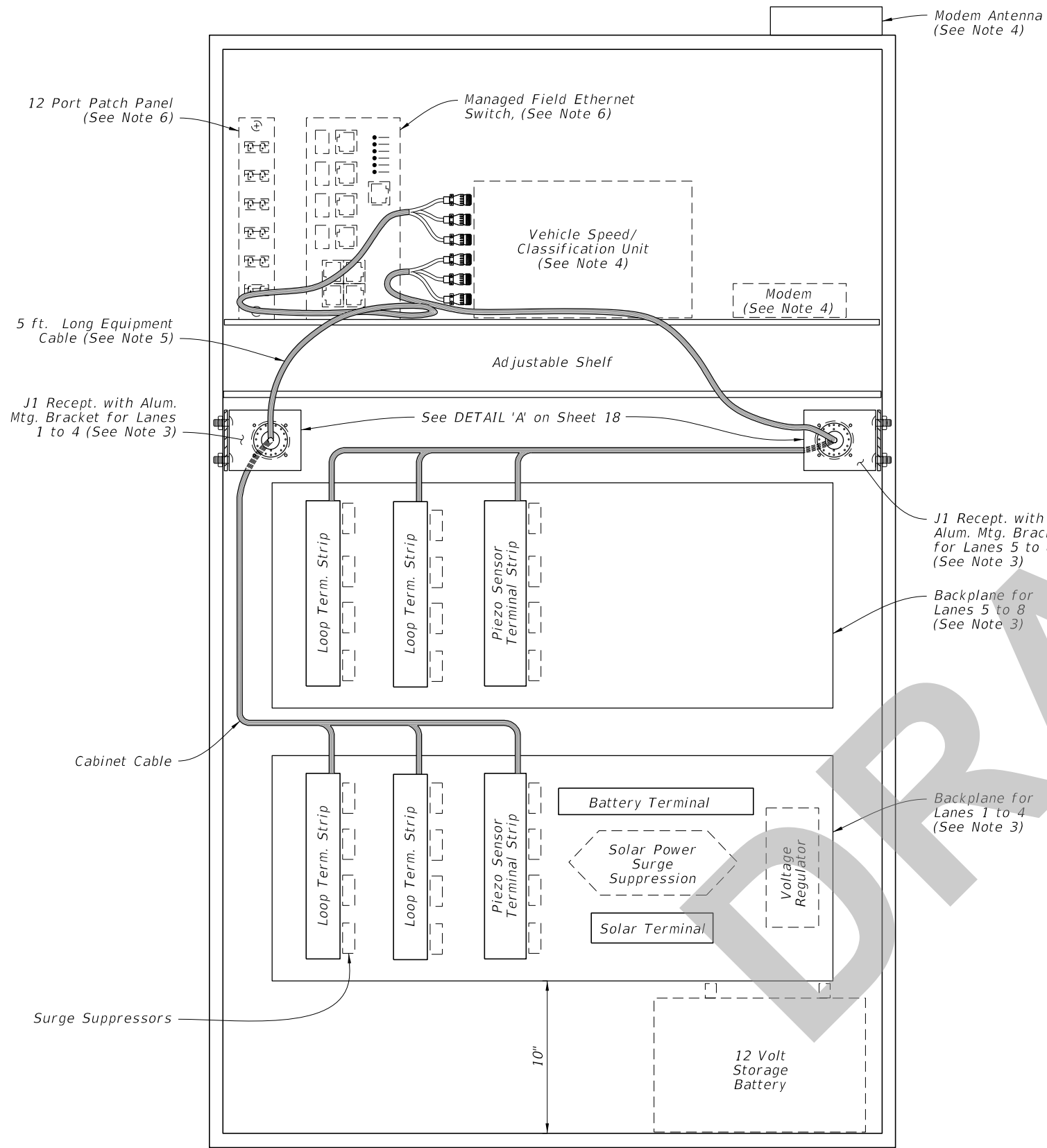
NOTES:

1. Traffic monitoring site cabinet includes:
 - A. One adjustable shelf; (equipped as shown)
 - B. One backplane assembly; (equipped as shown)
 - C. One J1 receptacle with mounting bracket;
 - D. One P1 equipment cable 5 ft. long (See Sheet 4);
 - E. All associated wiring and wiring harnesses.
2. Basic backplane assembly consists of:
 - A. Two inductive loop terminal strips;
 - B. One piezo sensor terminal strip;
 - C. One battery terminal strip;
 - D. One solar panel terminal strip.
3. The contractor is responsible for contacting the TMS Manager at the Transportation Data and Analytics Office for lane number information and verification.
4. Provide and install a Speed/Classification Unit, Modem, and Antenna.
5. Cable ends must be fabricated to fit the vehicle speed/classification unit. See Sheet 4 for Pinout Charts, receptacle and plug details.
6. Provide and install a 12-fiber single mode cable, a 12-port patch panel, and a managed field ethernet switch.

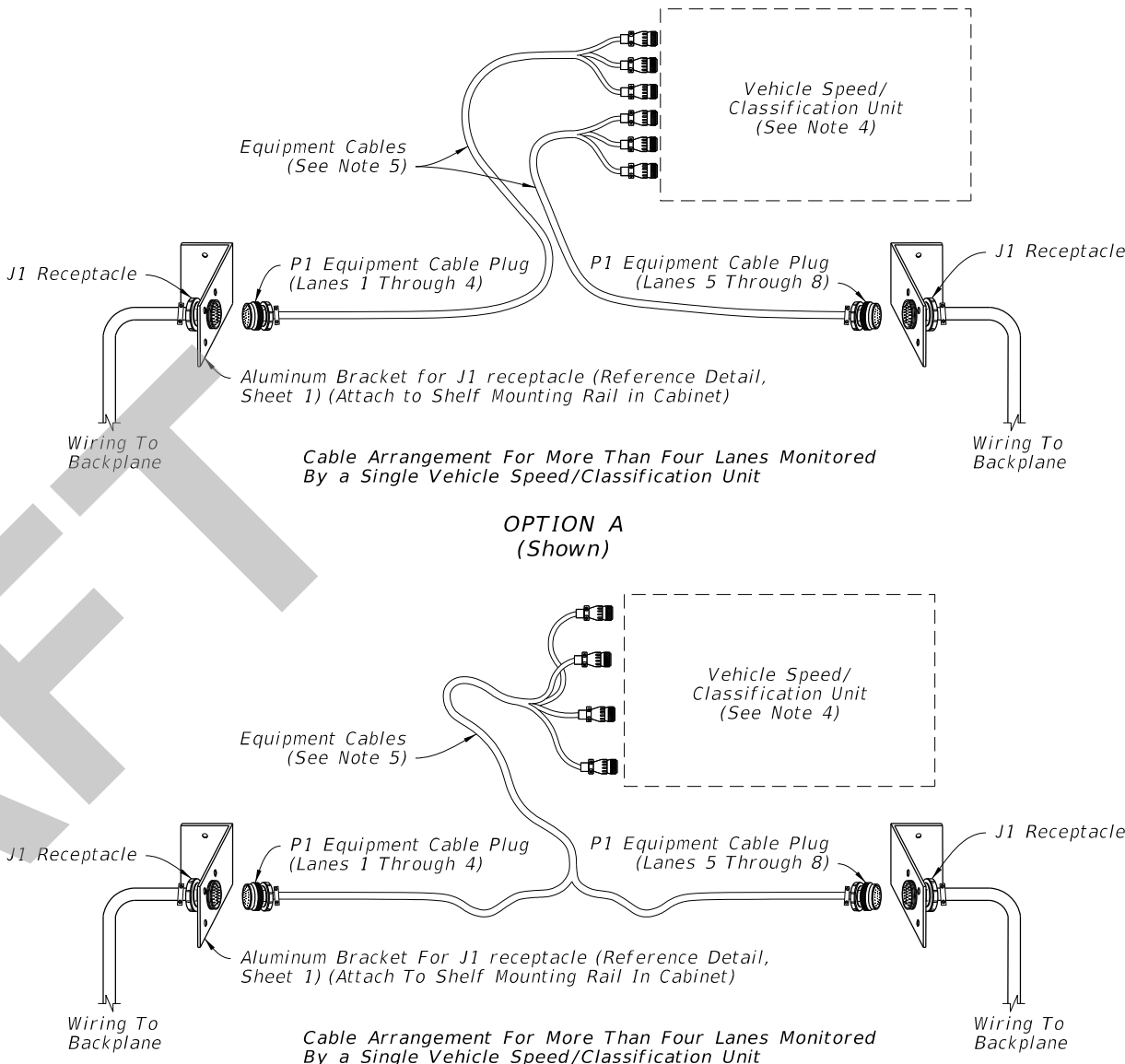
CABINET LAYOUT DETAILS
(Four Lanes or Less)

CONTINUOUS COUNT STATION TRAFFIC MONITORING SITE - TTMS/CCS

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CABINET LAYOUT DETAILS
(Five to Eight Lanes)



EQUIPMENT CABLE ASSEMBLY

NOTES:

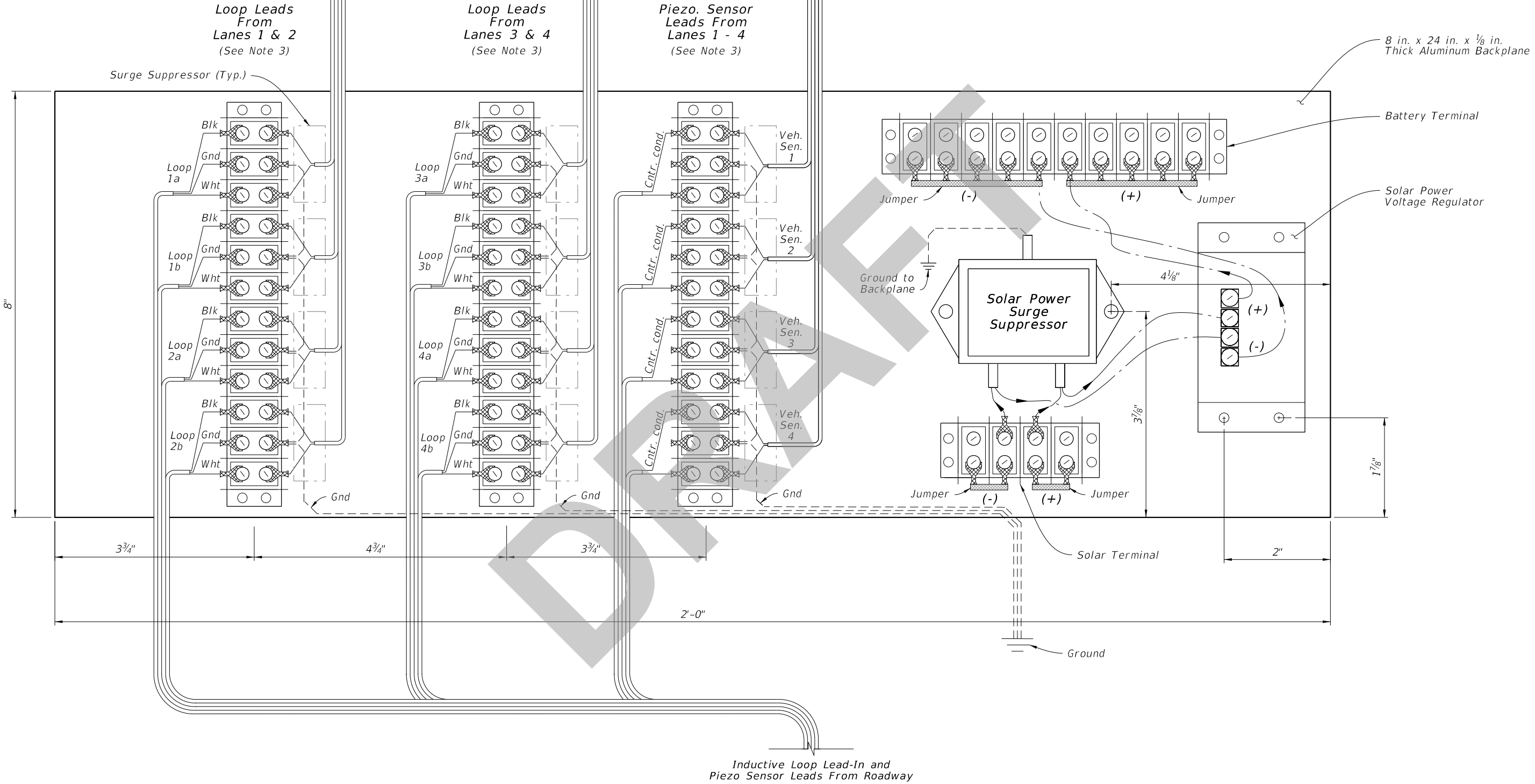
- Traffic monitoring site cabinet includes:
 - One adjustable shelf; (equipped as shown)
 - Two backplane assembly; (equipped as shown)
 - Two J1 receptacle with mounting bracket;
 - One P1 equipment cable 5 ft. long (See Sheet 4);
 - All associated wiring and wiring harnesses.
- Basic backplane assembly consists of:
 - Two inductive loop terminal strips;
 - One piezo sensor terminal strip;
 - One battery terminal strip;
 - One solar panel terminal strip.
- The contractor is responsible for contacting the TMS Manager in the Transportation Data and Analytics Office for lane number information and verification.
- Provide and install Speed/Classification Unit, Modem, and Antenna.
- Cable ends must be fabricated to fit the vehicle speed/classification unit. See Sheet 4 for Pinout Charts, receptacle and plug details.
- Provide and install a 12-fiber single mode cable, a 12-port patch panel, and a managed field ethernet switch.

CONTINUOUS COUNT STATION TRAFFIC MONITORING SITE - TTMS/CCS

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To J1 Receptacle

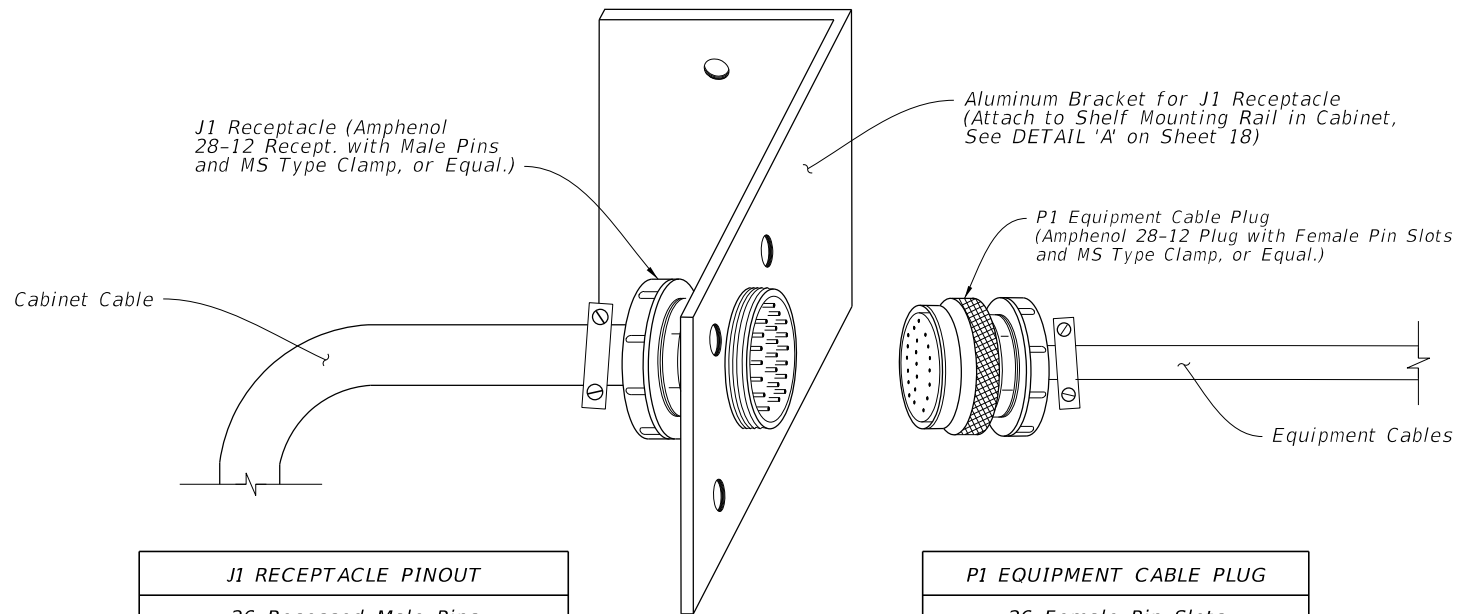
- NOTES:**
- 1. Reference Sheet 1 or 2, Note 2 for items to be included with backplane.
 - 2. All terminal strip contacts are on 9/16" centers (Cinch 142 Series or equal)
Use insulated fork wire terminations.
 - 3. The contractor is responsible for contacting the TMS Manager in the Transportation Data and Analytics Office for lane number information and verification.



CABINET BACKPLANE DETAIL

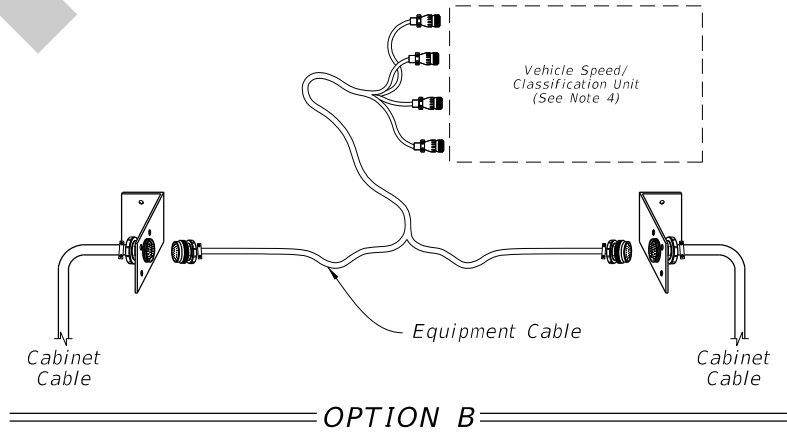
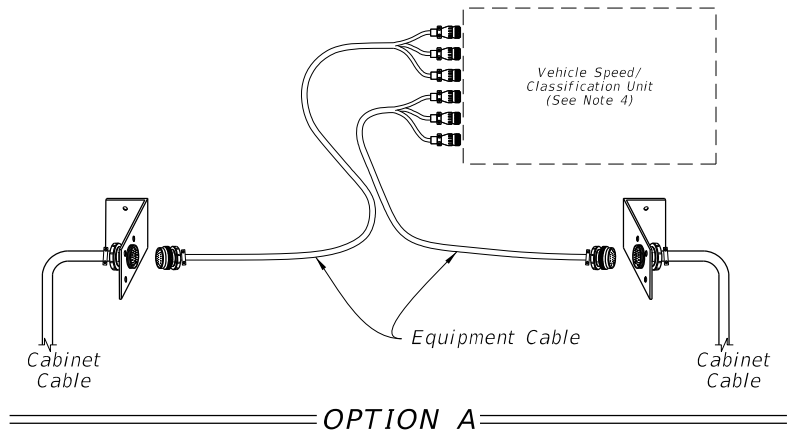
CONTINUOUS COUNT STATION TRAFFIC MONITORING SITE - TTMS/CCS

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J1 RECEPTACLE PINOUT	
26 Recessed Male Pins	
A	Loop 1a (5a) white
B	Loop 1a (5a) black
C	Loop 1b (5b) red
D	Loop 1b (5b) black
E	Loop 2a (6a) green
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/white
R	Loop 4a (8a) w/black
S	Loop 4b (8b) w/red
T	Loop 4b (8b) w/green
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/white
d	Gnd green

P1 EQUIPMENT CABLE PLUG		
26 Female Pin Slots		
A	Loop 1a (5a)	Connect To Electronics Unit
B	Loop 1a (5a)	
C	Loop 1b (5b)	
D	Loop 1b (5b)	
E	Loop 2a (6a)	
F	Loop 2a (6a)	Connect To Electronics Unit
G	Loop 2b (6b)	
H	Loop 2b (6b)	
N	Gnd	
J	Loop 3a (7a)	
K	Loop 3b (7b)	Connect To Electronics Unit
L	Loop 3b (7b)	
M	Loop 3b (7b)	
P	Loop 4a (8a)	
R	Loop 4a (8a)	
S	Loop 4b (8b)	Connect To Electronics Unit
T	Loop 4b (8b)	
d	Gnd	
U	Piezo 1 (5) (+)	
V	Piezo 1 sh	
W	Piezo 2 (6) (+)	Connect To Electronics Unit
X	Piezo 2 sh	
Y	Piezo 3 (7) (+)	
Z	Piezo 3 sh	
a	Piezo 4 (8) (+)	
b	Piezo 4 sh	



- NOTES:**
- The contractor is responsible for contacting the TMS Manager in the Transportation Data and Analytics Office for lane number information and verification.
 - The equipment cable can accommodate up to four lanes of inductive loop and piezo sensor inputs. (See Sheet 1 for cabinet layout)
 - For more than four lanes and up to eight lanes of inputs, the following options are available:
 - Second Vehicle Speed/Classification Unit and separate equipment cable connecting to a second J1 receptacle; or
 - Single Vehicle Speed/Classification Unit capable of up to eight lanes of inputs and a single equipment cable with split ends to fit two J1 receptacles. (See Sheet 2 detail)
 - Numbers in parenthesis in the pinout chart identify lane numbers when a second backplane for lanes 5 through 8 is required.
 - Cable Ends must be fabricated to fit the vehicle Speed/Classification Unit.

PINOUT, RECEPTACLE, AND PLUG DETAILS

CONTINUOUS COUNT STATION TRAFFIC MONITORING SITE - TTMS/CCS



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STANDARD PLANS

TRAFFIC MONITORING SITE

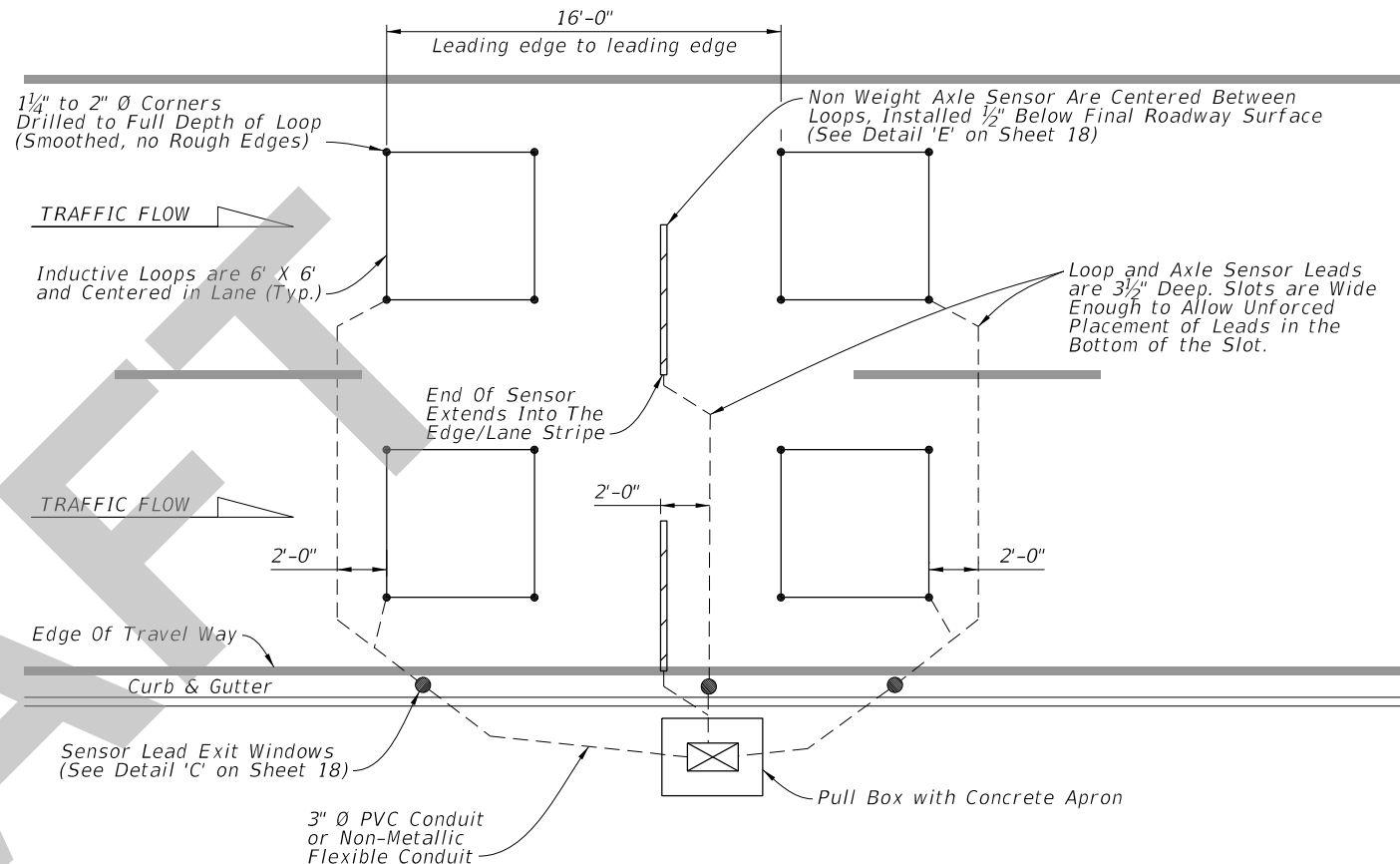
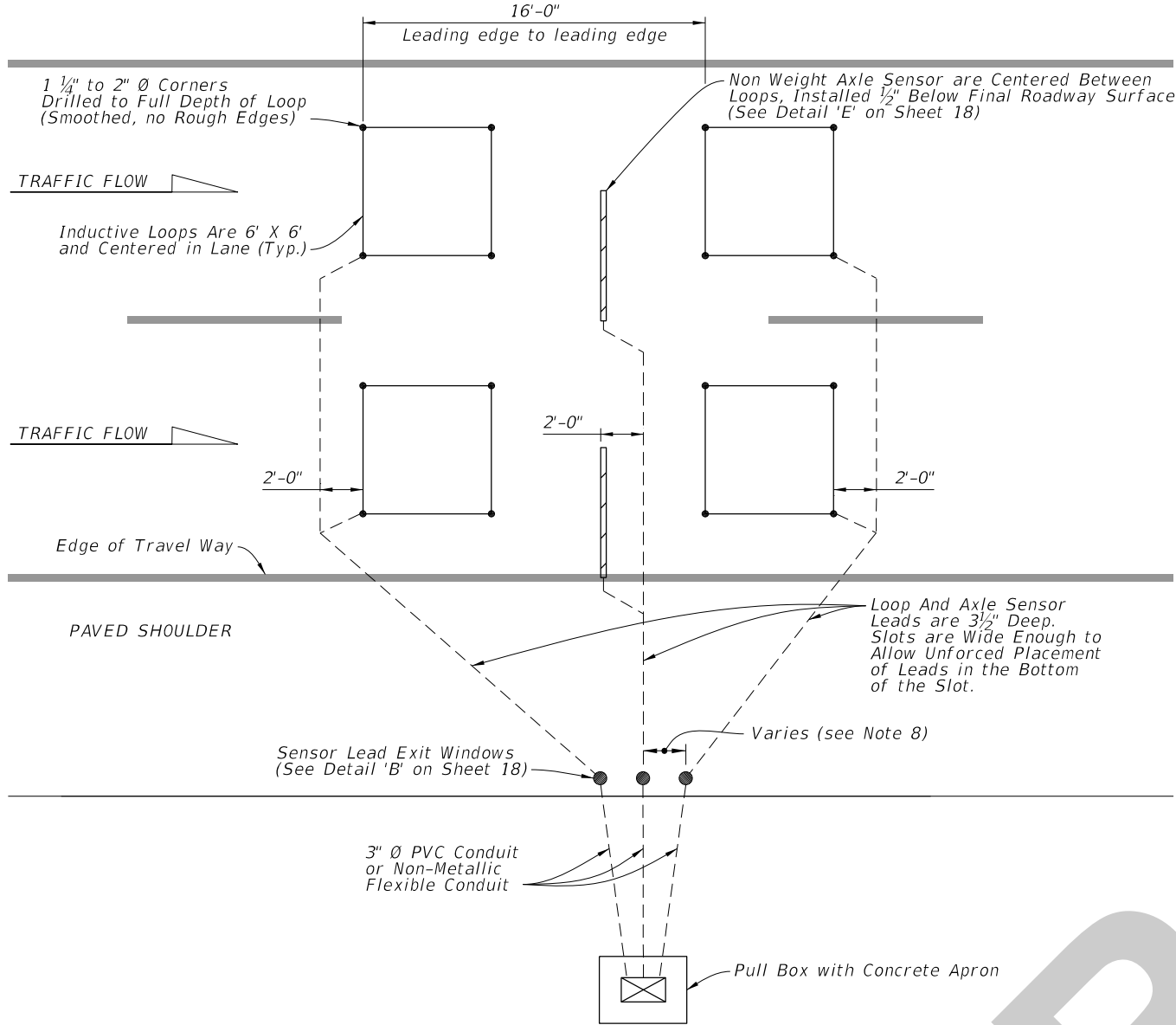
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LAST
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REVISION

DESCRIPTION:



ROADWAYS WITH PAVED SHOULDERS


CURB & GUTTER ROADWAYS

NOTES:

1. Install axle sensors and loops associated with axle sensors after placement of the friction course.
2. Cut a 3 1/2" deep slot for the Inductive loops. Loop slots will be cut wide enough to allow unforced placement of the wire into the bottom of the slot. Place four turns of #14 AWG, place the IMSA 51-7 copper wire in the slot. Place short pieces of backer rod (2" to 3" in length) every 18" to 24" to hold the loop wire in the bottom of the slot and start wire twist at the beginning of the home run slot.
3. Twist loop leads at the rate of 8 to 16 twist per foot. Extend the twisted pair loop wire directly to the cabinet. No splicing of the loop leads will be permitted. Install a home run slot with a minimum width of 5/8".
4. Marking will consist of two rounds of contrasting colored tape, one color for the lane number and the second color for the lead loop location in the lane. The first band closest to the cabinet will represent the lane number, one round of tape will be for lane 1 and two rounds will be lane 2, etc. The lead loop in lane one would have one round of tape and a second round of a contrasting colored tape for the lead loop in the lane. The trailing loop would not have a second contrasting colored band of tape.
5. See Index 635-001 for pull box and concrete apron details.
6. Use a chalk line or string and paint to layout the position of the sensor and lead-in cable slots. Ensure saw cuts do not deviate more than 1/2" from the chalk line. Use a single blade or ganged blade saw wide enough to cut the axle sensor slot at full width in a single pass. Cutting two slots and chipping out roadway material between them is not allowed.
7. All sensor slots and any cuts in the roadway will be thoroughly blown out to ensure there is no dust or debris prior to installation of sensors or leads.
8. Install Exit Windows at least 2' apart.

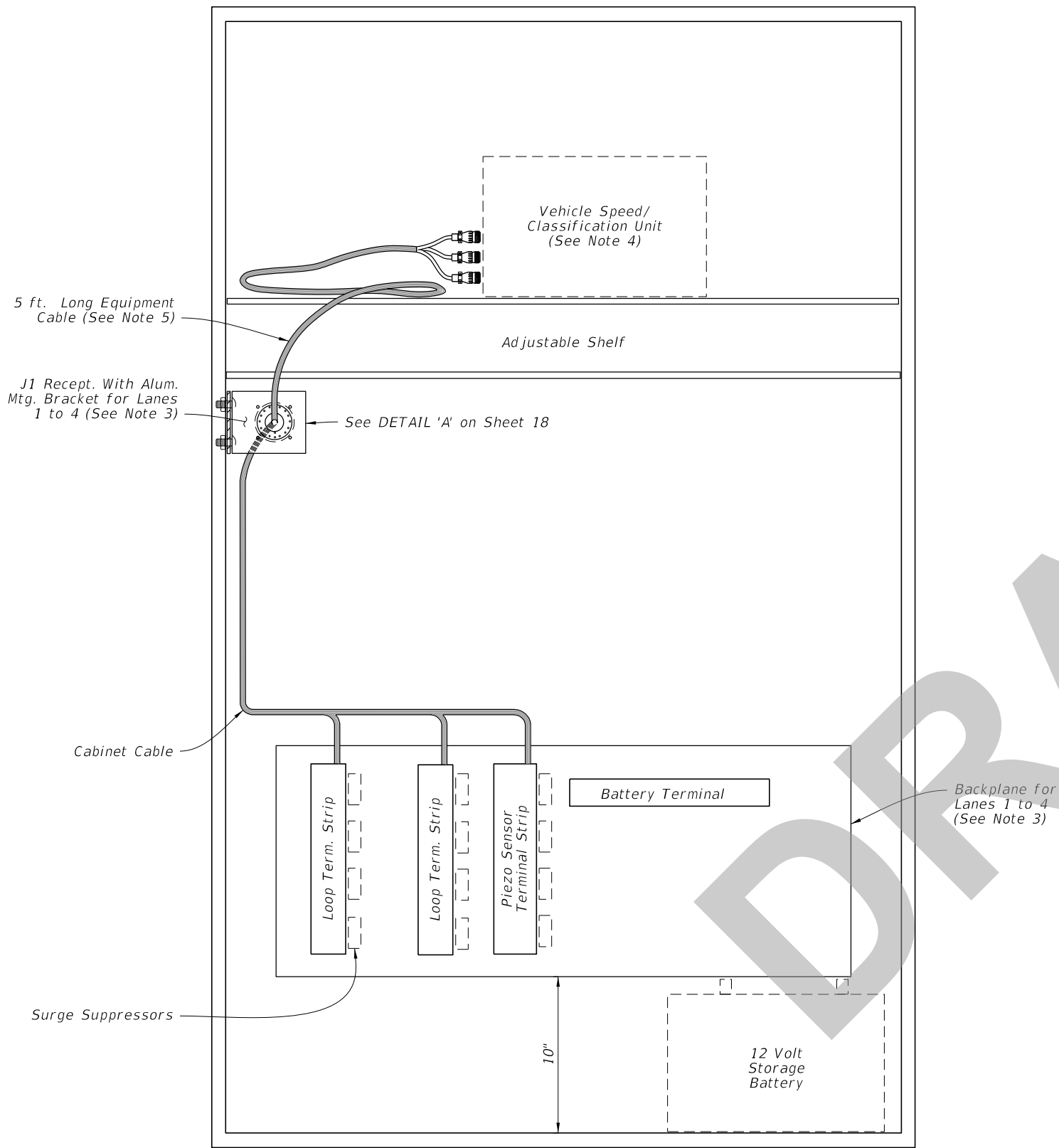
LANE LAYOUT FOR TTMS/CCS INDUCTIVE LOOP AND AXLE SENSORS
(Typical for up to 4 Lanes of Sensor Leads Pulled to one Side of the Roadway)

CONTINUOUS COUNT STATION TRAFFIC MONITORING SITE - TTMS/CCS

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- NOTES:
- Traffic monitoring site cabinet includes:
 - A. One adjustable shelf; (equipped as shown)
 - B. One backplane assembly; (equipped as shown)
 - C. One J1 receptacle with mounting bracket;
 - D. One P1 equipment cable 5 ft. long (See Sheet 4);
 - E. All associated wiring and wiring harnesses.
 - Basic backplane assembly consists of:
 - A. Two inductive loop terminal strips;
 - B. One piezo sensor terminal strip;
 - C. One battery terminal strip.
 - The contractor is responsible for contacting the District Data Collection Coordinator for lane numbering.
 - Proved and install a Speed/Classification Unit.
 - Cable ends must be fabricated to fit the vehicle speed/ classification unit. See Sheet 4 for Pinout Charts, receptacle and plug details.

CABINET LAYOUT DETAILS
(Four Lanes or Less)

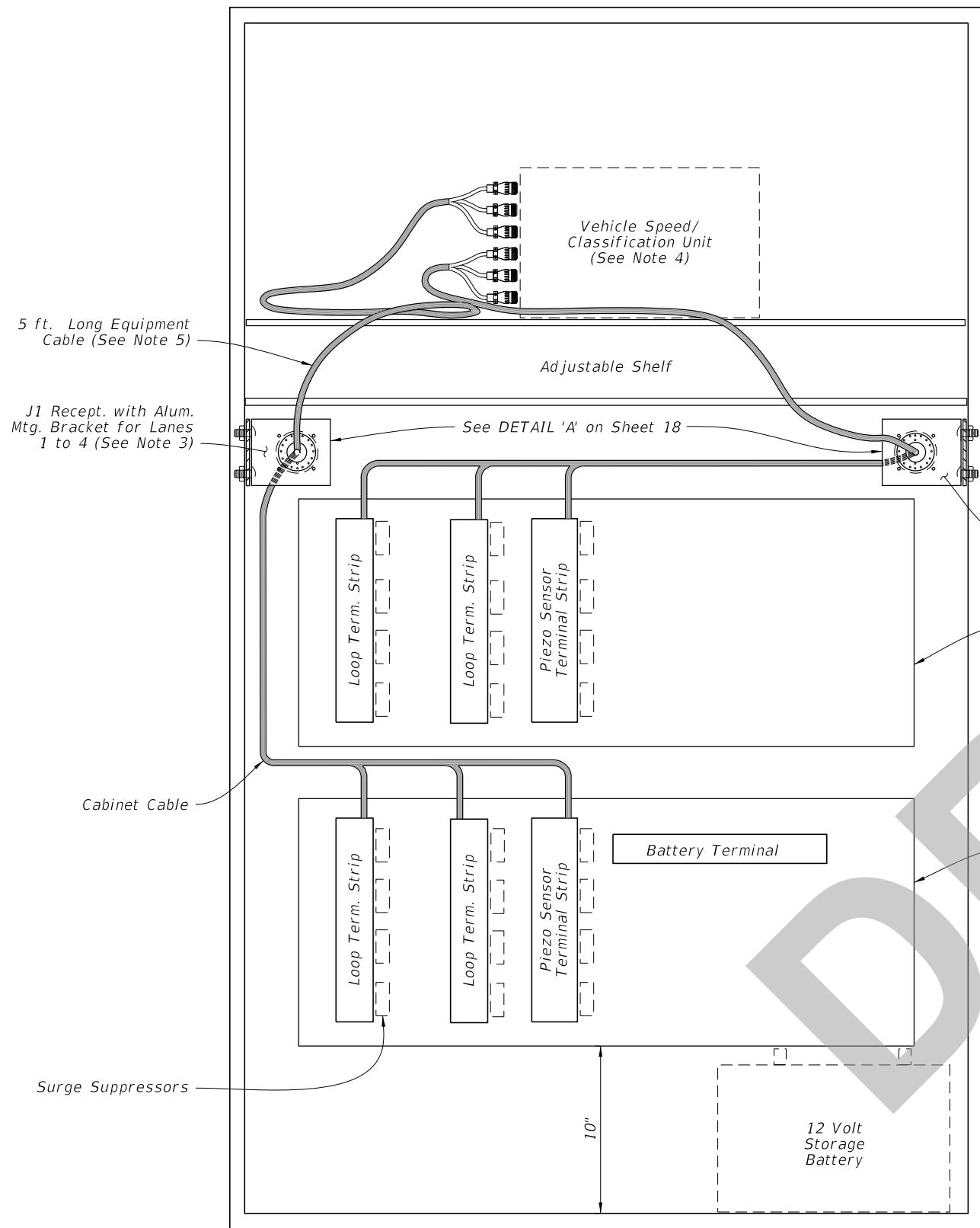
SHORT TERM TRAFFIC MONITORING SITE - PTMS

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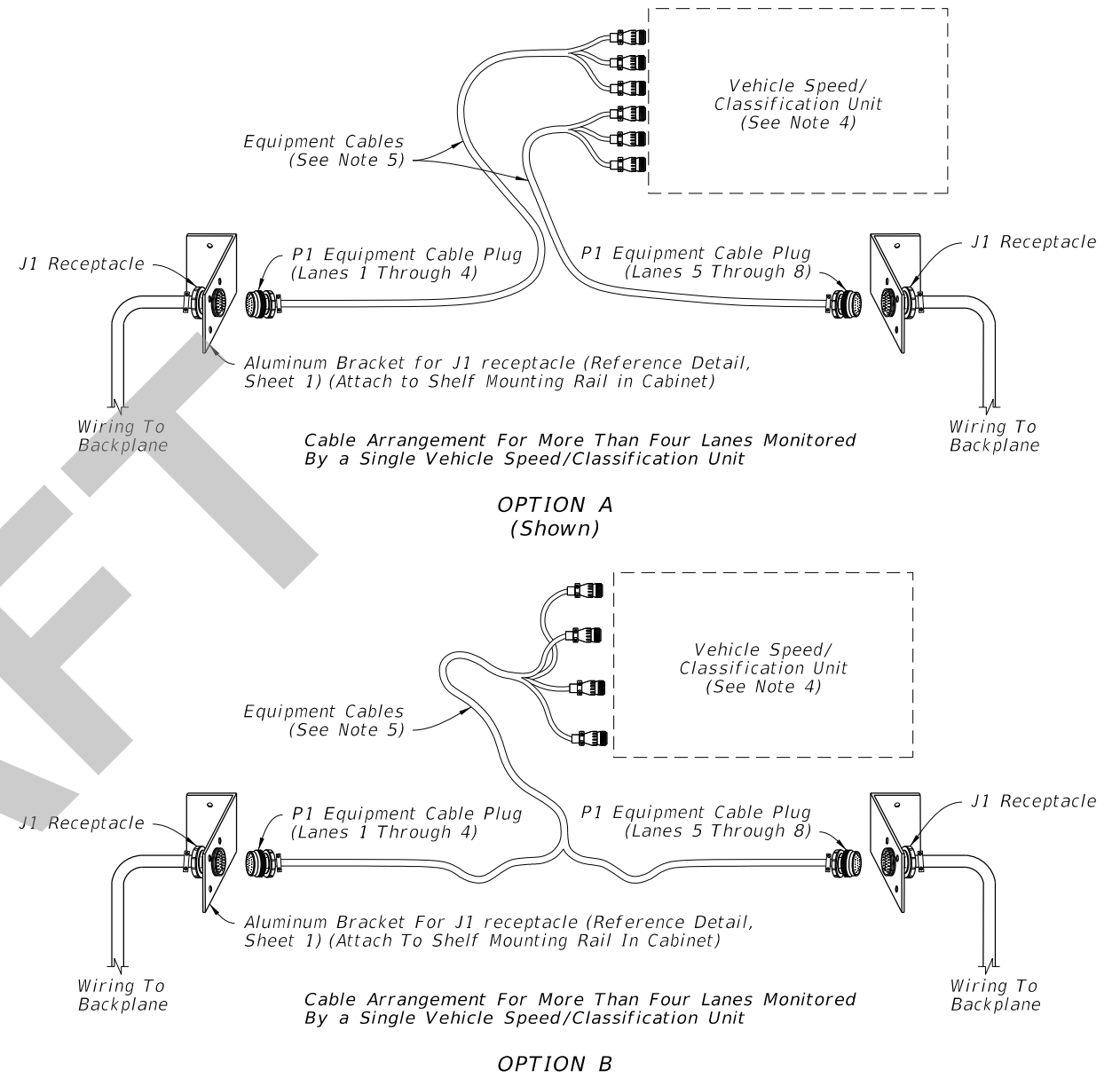


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STANDARD PLANS

TRAFFIC MONITORING SITE



CABINET LAYOUT DETAILS
(Five to Eight Lanes)




EQUIPMENT CABLE ASSEMBLY

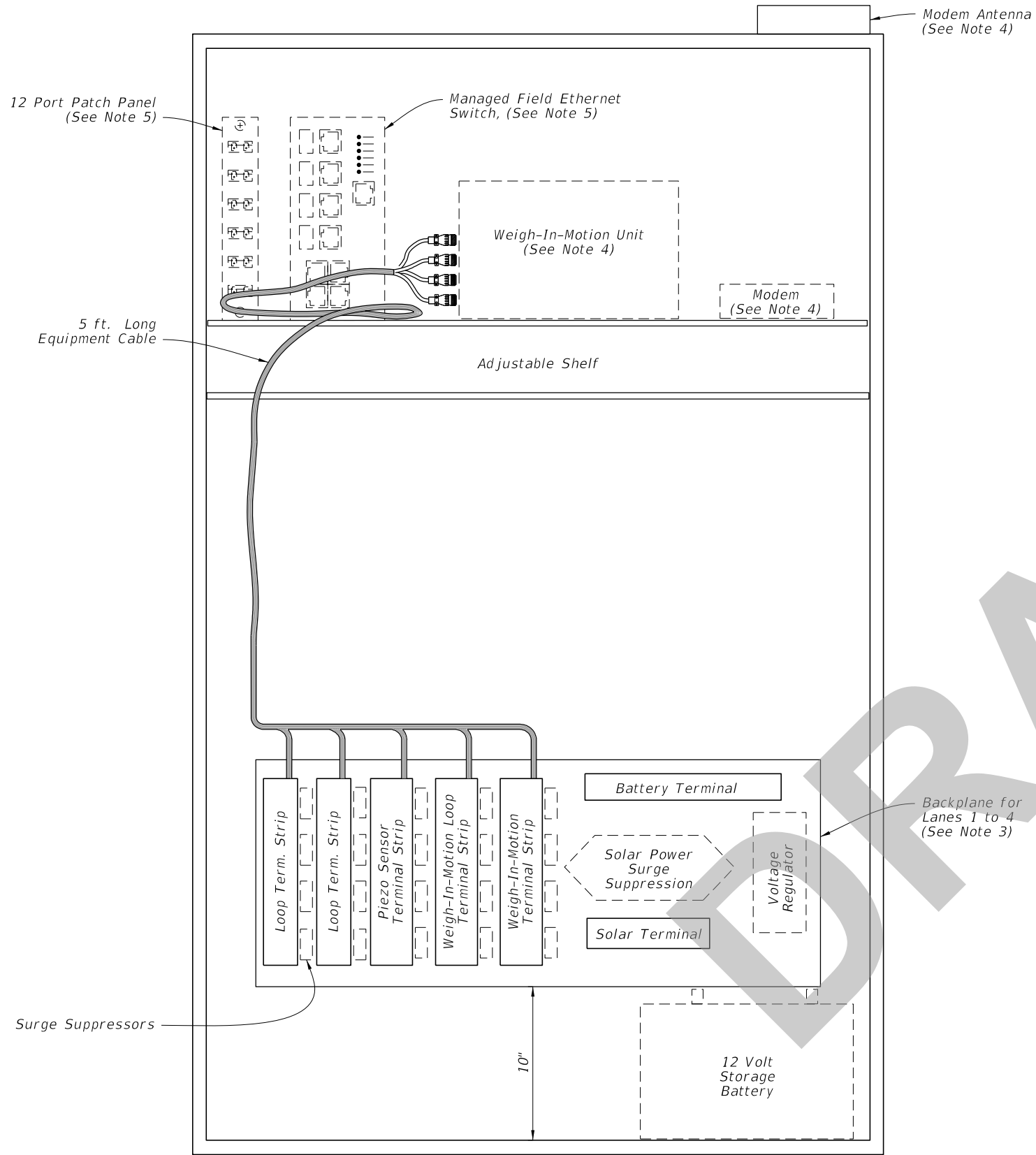
NOTES:

- Traffic monitoring site cabinet includes:
 - One adjustable shelf; (equipped as shown)
 - Two backplane assembly; (equipped as shown)
 - Two J1 receptacle with mounting bracket;
 - One P1 equipment cable 5 ft. long (See Sheet 4);
 - All Associated wiring and wiring harnesses.
- Basic backplane assembly consists of:
 - Two inductive loop terminal strips;
 - One piezo sensor terminal strip;
 - One battery terminal strip.
- The contractor is responsible for contacting the TMS Manager in the Transportation Data and Analytics Office for lane number information and verification.
- Provide and install Speed/Classification Unit.
- Cable ends must be fabricated to fit the vehicle speed/classification unit. See Sheet 4 for Pinout Charts, receptacle and plug details.

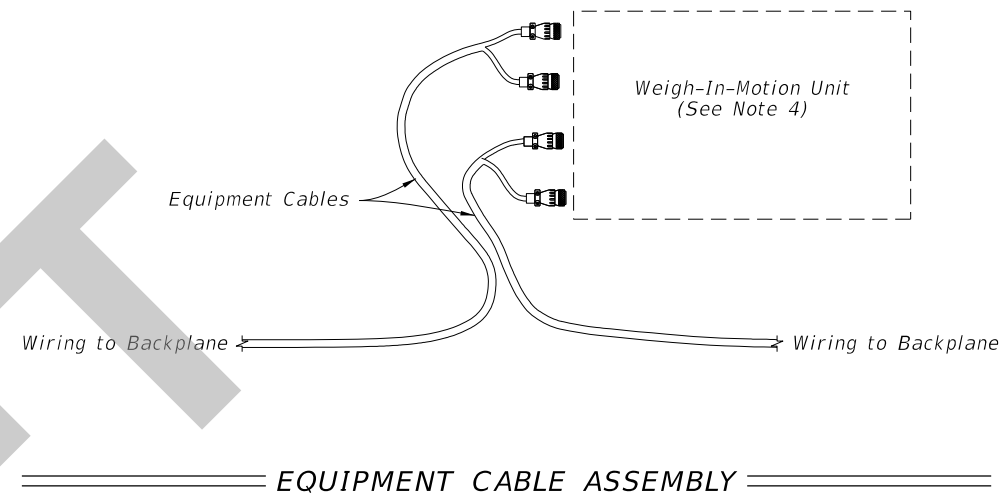
SHORT TERM TRAFFIC MONITORING SITE - PTMS

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CABINET LAYOUT DETAILS



- NOTES:**
- Traffic monitoring site cabinet includes:
 - A. One adjustable shelf; (equipped as shown)
 - B. One backplane assembly; (equipped as shown)
 - C. All associated wiring and wiring harnesses.
 - Basic backplane assembly consists of:
 - A. Two inductive loop terminal strips;
 - B. One piezo sensor terminal strip;
 - C. Two weigh-in-motion terminal strips;
 - D. One battery terminal strip;
 - E. One solar panel terminal strip.
 - The contractor is responsible for contacting the TMS Manager at the Transportation Data and Analytics Office for lane number information and verification.
 - Provide and install a Weigh-In-Motion Unit, Modem, and Antenna.
 - Provide and install a 12-fiber single mode cable, a 12-port patch panel, and a managed field ethernet switch.

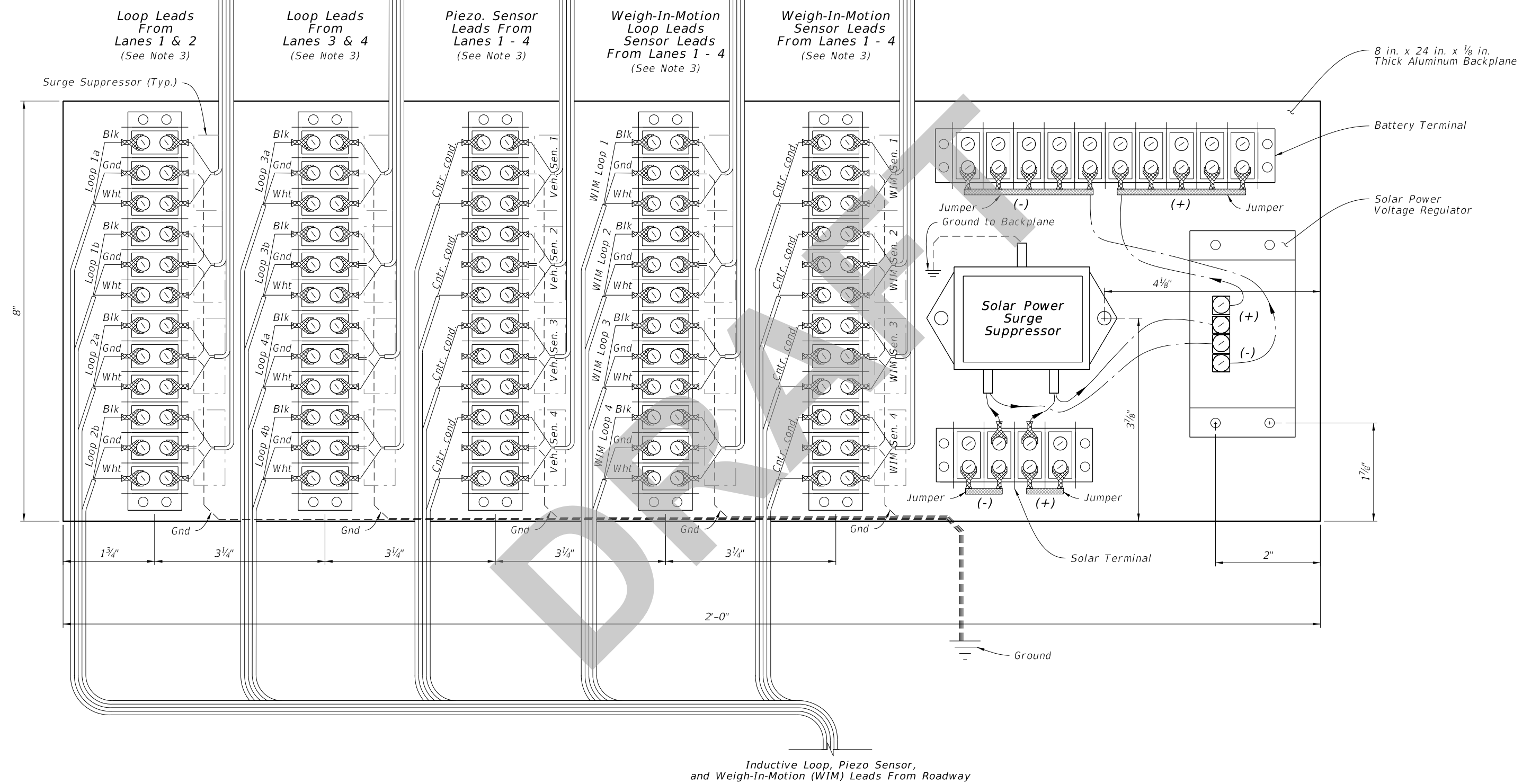
WEIGH-IN-MOTION MONITORING SITE

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To Weigh-In-Motion Unit

NOTES:

- 1. Reference Sheet 9, Note 2 for items to be included with backplane.
- 2. All terminal strip contacts are on 9/16" centers (Cinch 142 Series or equal)
Use insulated fork wire terminations.
- 3. The contractor is responsible for contacting the TMS Manager in the Transportation Data and Analytics Office for lane number information and verification.



CABINET BACKPLANE DETAILS

WEIGH-IN-MOTION MONITORING SITE

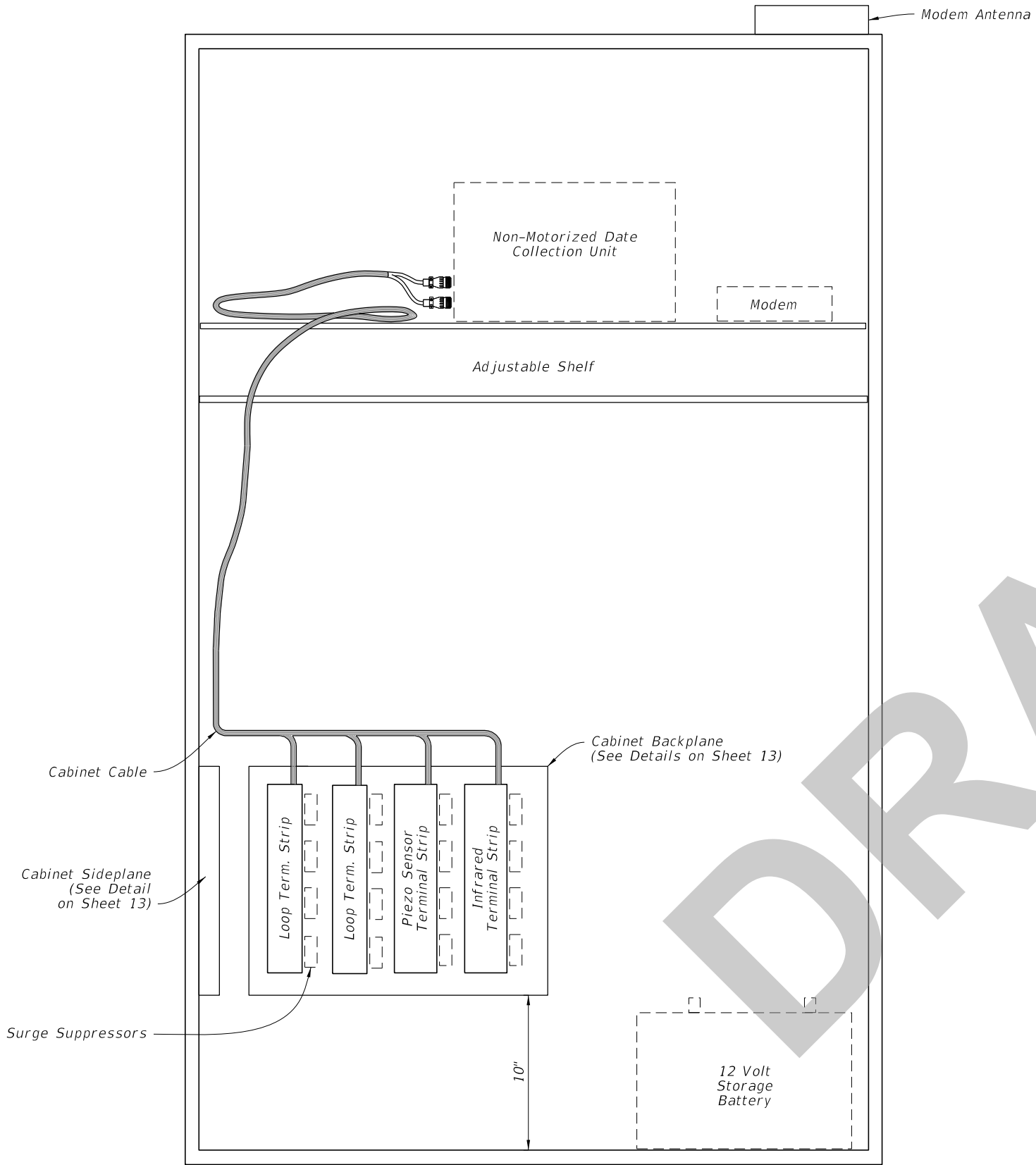
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1. *Install axle sensors and loops associated with axle sensors after placement of the friction course.*
2. *Cut a 3½" deep slot for the Inductive loops. Loop slots will be cut wide enough to allow unforced placement of the wire into the bottom of the slot. Place four turns of #14 AWG IMSA 51-7 copper wire in the slot. Place short pieces of backer rod (2" to 3" in length) every 18" to 24" to hold the loop wire in the bottom of the slot.*
3. *Twist loop leads at the rate of 8 to 16 twists per foot. Extend the twisted pair loop wire directly to the cabinet. No splicing of the loop leads will be permitted.*
4. *Marking will consist of two rounds of contrasting colored tape, one color for the lane number and the second color for the lead loop location in the lane. The first band closest to the cabinet will represent the lane number, one round of tape will be for lane 1 and two rounds will be lane 2, etc. The lead loop in lane one would have one round of tape and a second round of a contrasting colored tape for the lead loop in the lane. The trailing loop would not have a second contrasting colored band of tape.*
5. *See Index 635-001 for pull box and concrete apron details.*
6. *Use a chalk line or string and paint to layout the position of the sensor and lead-in cable slots. Ensure saw cuts do not deviate more than ½" from the chalk line. Install the sensor according to manufacturer's recommendations.*
7. *All sensor slots and any cuts in the roadway will be thoroughly blown out to ensure there is no dust or debris prior to installation of sensors or leads.*
8. *Install Exit Windows at least 2' apart.*




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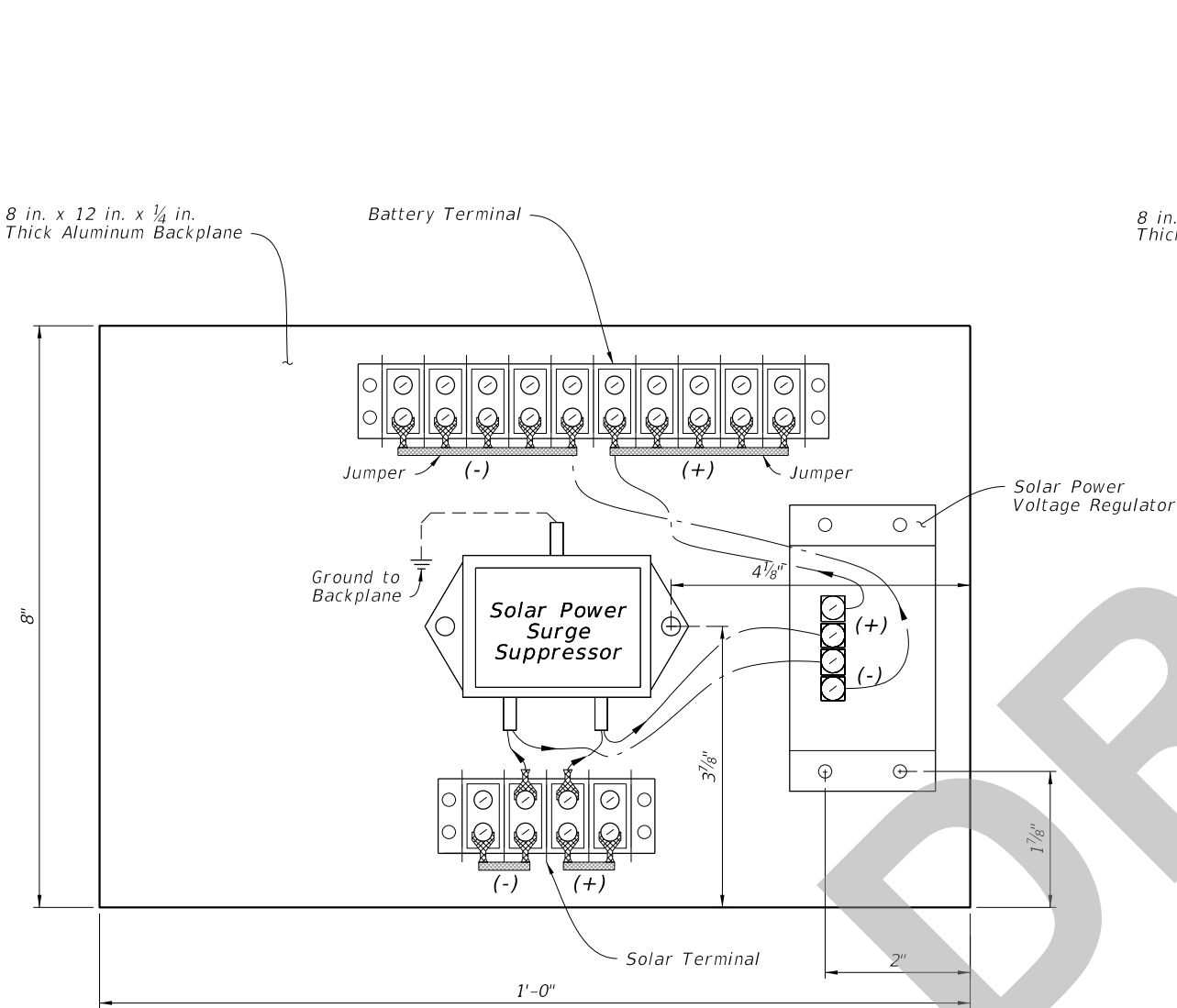


- NOTES:
- 1. Traffic monitoring site cabinet includes:
 - A. One adjustable shelf; (equipped as shown)
 - B. One backplane assembly; (equipped as shown)
 - C. One sideplane assembly; (equipped as shown);
 - D. Infrared sensor and piezo sensor cables.
 - 2. Basic backplane assembly consists of:
 - A. Two inductive loop terminal strips;
 - B. One piezo sensor terminal strip;
 - C. One infrared sensor terminal strip;
 - 3. Basic sideplane assembly consists of:
 - A. One battery terminal strip;
 - B. One solar panel terminal strip.

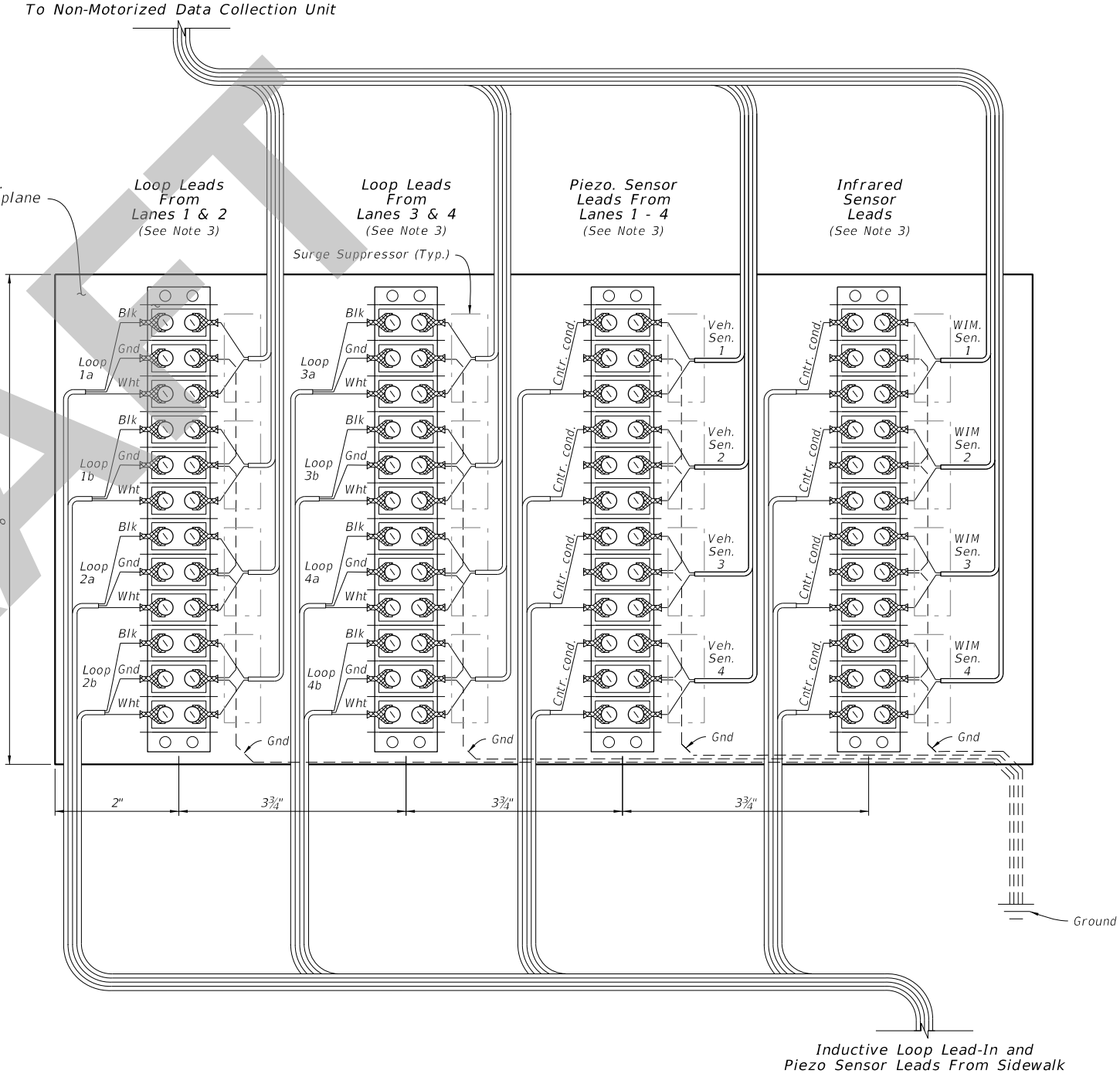
CABINET LAYOUT DETAILS

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- NOTES:**
- 1. Reference Sheet 12, Note 2 for items to be included with backplane.
 - 2. All terminal strip contacts are on 9/16" centers (Cinch 142 Series or equal)
Use insulated fork wire terminations.
 - 3. The contractor is responsible for contacting the TMS Manager in the Transportation Data and Analytics Office for lane number information and verification.



CABINET SIDEPLANE DETAILS



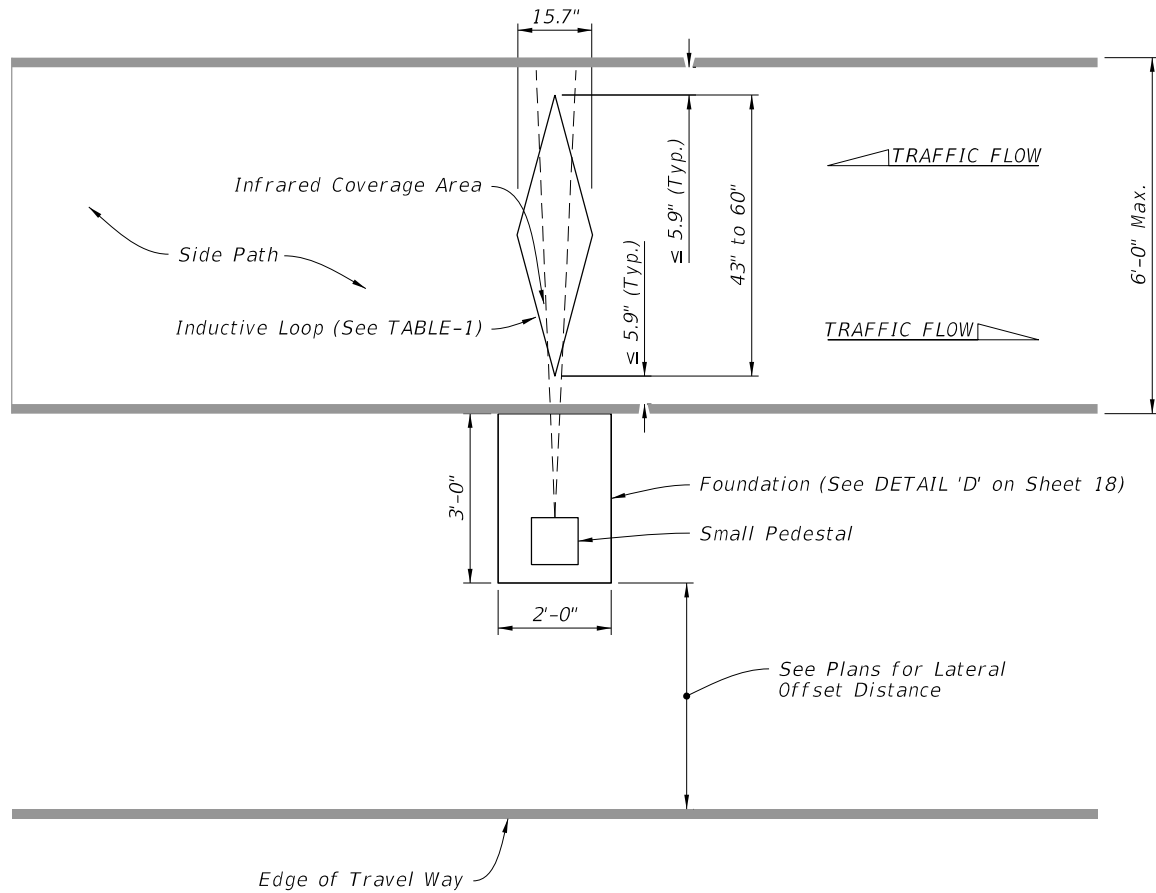
CABINET BACKPLANE DETAILS

NON-MOTORIZED MONITORING SITE

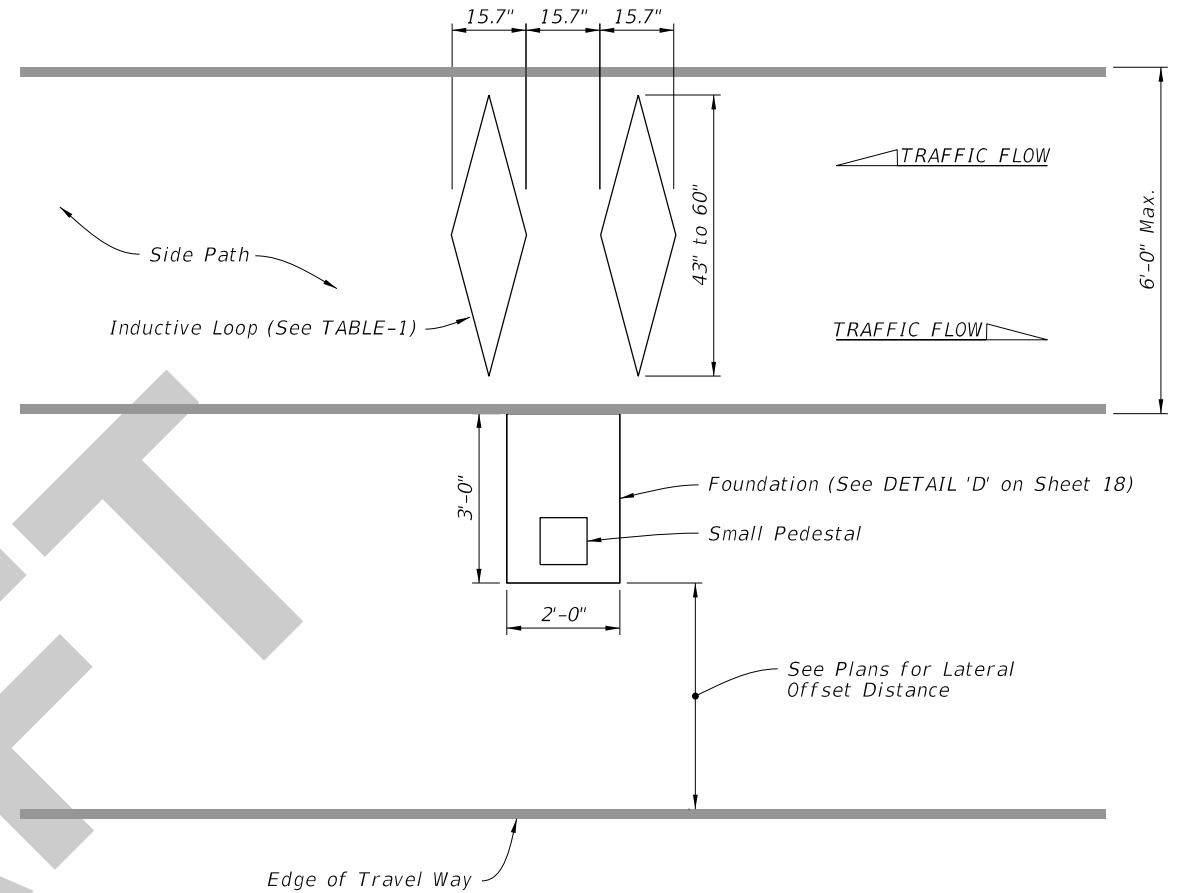
LAST REVISION 11/01/25	REVISION	DESCRIPTION:	 FY 2026-27 STANDARD PLANS	TRAFFIC MONITORING SITE	INDEX 695-001	SHEET 13 of 21
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SINGLE LOOP ASSEMBLY
(Directional Recognition With Infrared)



DUAL LOOP ASSEMBLY
(Directional Recognition Without Infrared)

NON-MOTORIZED MONITORING SITE NOTES:

1. Use a chalk line or string and paint to layout the position of the sensor and lead-in cable slots. Ensure saw cuts do not deviate more than 0.5 inches from the chalk line. Use a single blade or ganged blade saw wide enough to cut the axle sensor at full width in a single pass. Cutting two slots and chipping out roadway material between them is not allowed.
2. Cut a $\frac{1}{4}$ " to $\frac{1}{2}$ " wide slot.
3. All sensor slots and any cuts in the pathway will be thoroughly blown out to ensure there is no dust or debris prior to installation of the loops and leads.
4. Place eight turns of loop wire in each slot.
5. Twist loop leads at the rate of 10 twists per foot.
6. Extend the twisted pair loop wire directly to the termination point with no splices.
7. For the side-by-side configuration, install the farthest loop lead through the near side loop slot.
8. At the termination point, for north-south pathways, mark the north piezometer and inductive loop sensor lead(s) with one tape. For east-west pathways, mark the east piezometer and inductive loop sensor lead(s) with one tape. Mark the south and west sensor lead(s) with two tapes.
9. Do not point infrared sensors towards a path where motor vehicles pass, a metallic or reflective surface, surfaces exposed to sunlight or vegetation that are likely to move.
10. Avoid placing infrared sensors near heat sources, steep surfaces, high voltage power cables, and telecommunications equipment.
11. If crossing pavement joints see DETAIL "F" on Sheet 18.

TABLE - 1

Lane Width	Loop Length
43.3"	39.4" to 43.3"
47.2"	43.3" to 47.2"
51.2"	47.2" to 51.2"
55.1"	51.2" to 55.1"
59"	55.1" to 59.1"
63" to 70.9"	59.1"
72.8" to 76.8"	Contact Manufacturer

REGULAR SIDE PATH CONFIGURATIONS

NON-MOTORIZED MONITORING SITE

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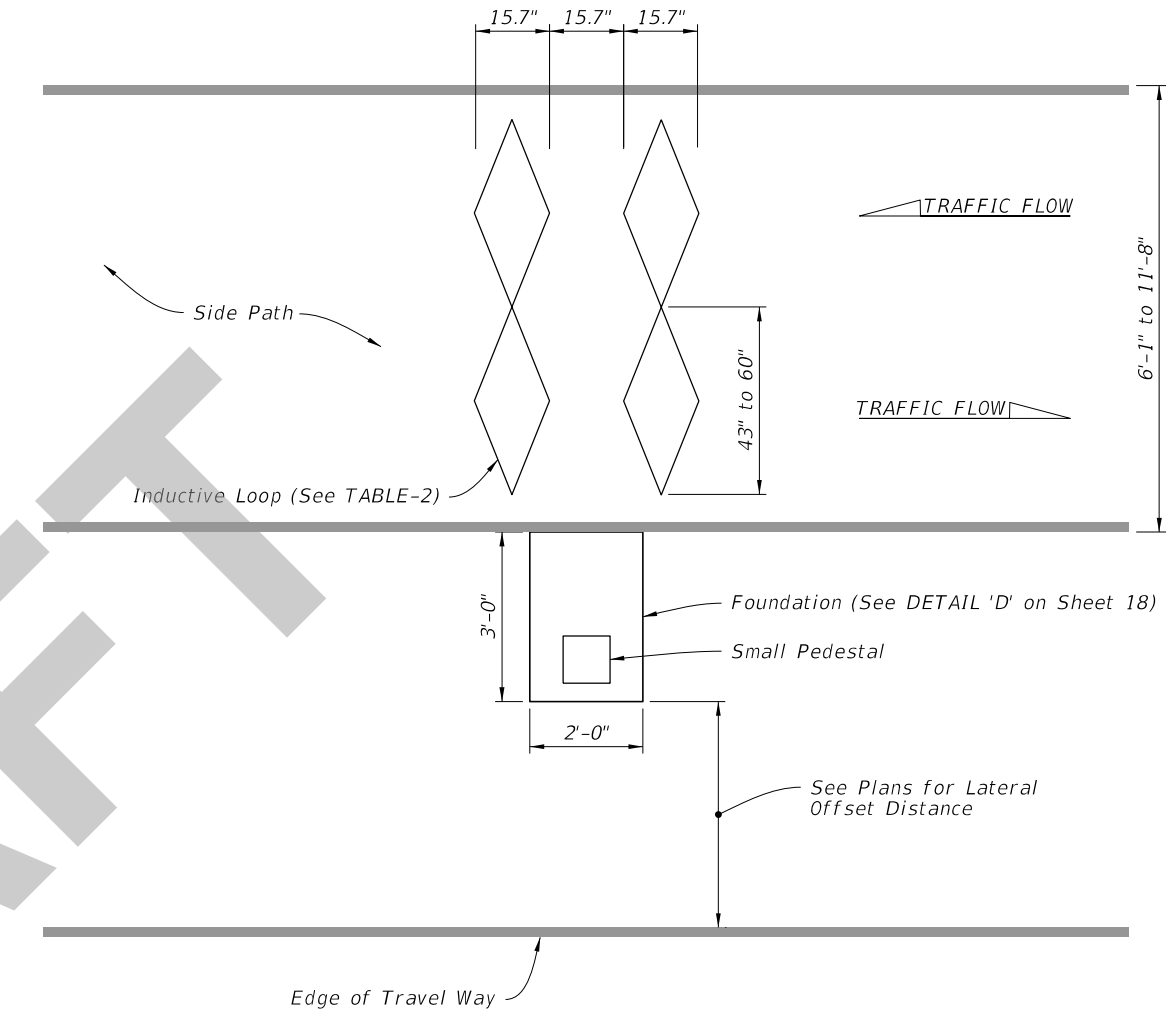
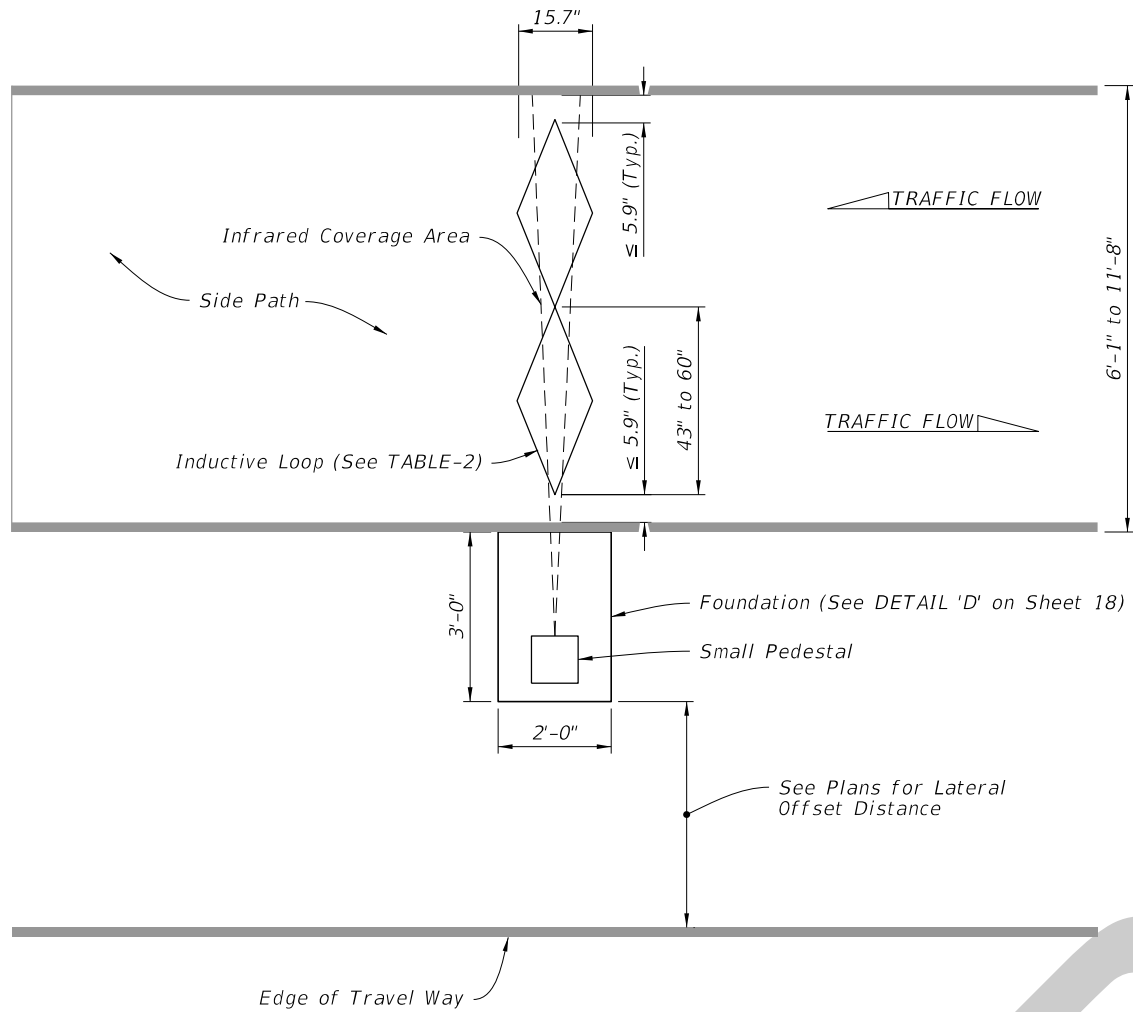
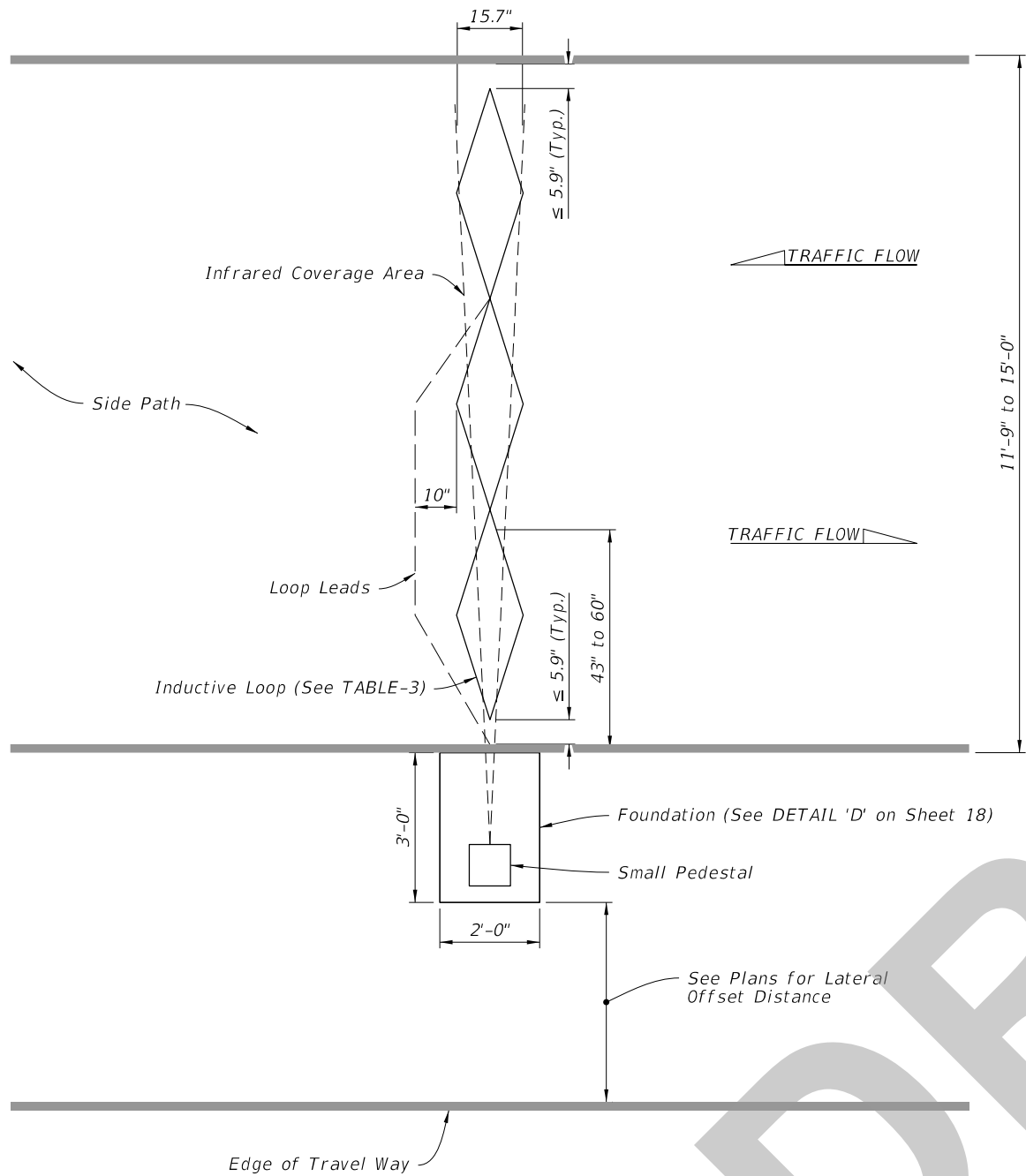


TABLE - 2	
Lane Width	Loop Length
78.7" to 82.7"	39.4"
86.6" to 98.4"	43.3"
102.7" to 106.3"	47.2"
110.2" to 114.2"	51.2"
118.1" to 122"	55.1"
126" to 133.9"	59.1"
≥133.9"	Contact Manufacturer

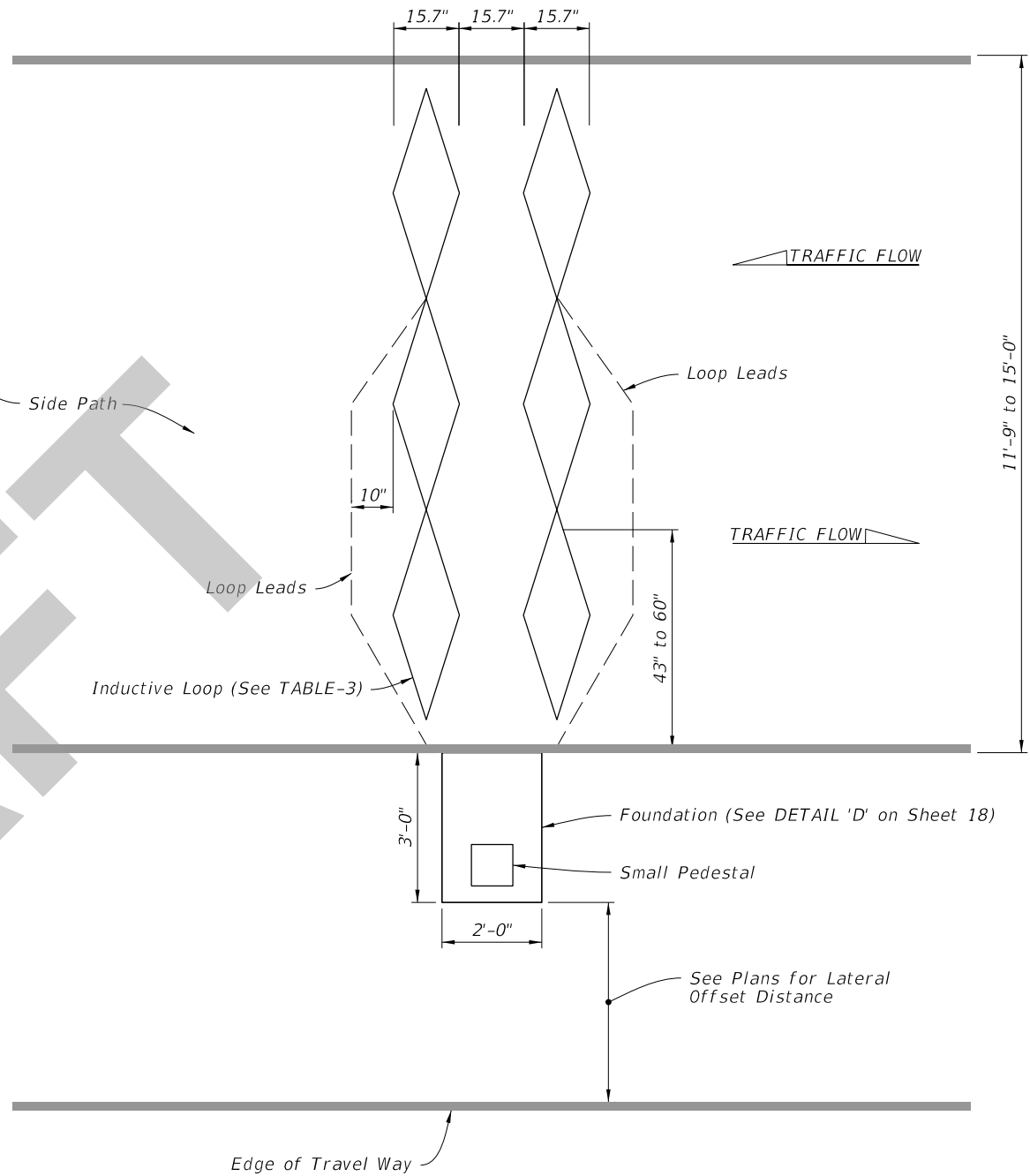
MEDIUM SHARED USE PATH CONFIGURATIONS

NON-MOTORIZED MONITORING SITE

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TRIPLE LOOP ASSEMBLY
(Directional Recognition With Infrared)



SEXTUPLE LOOP ASSEMBLY
(Directional Recognition Without Infrared)

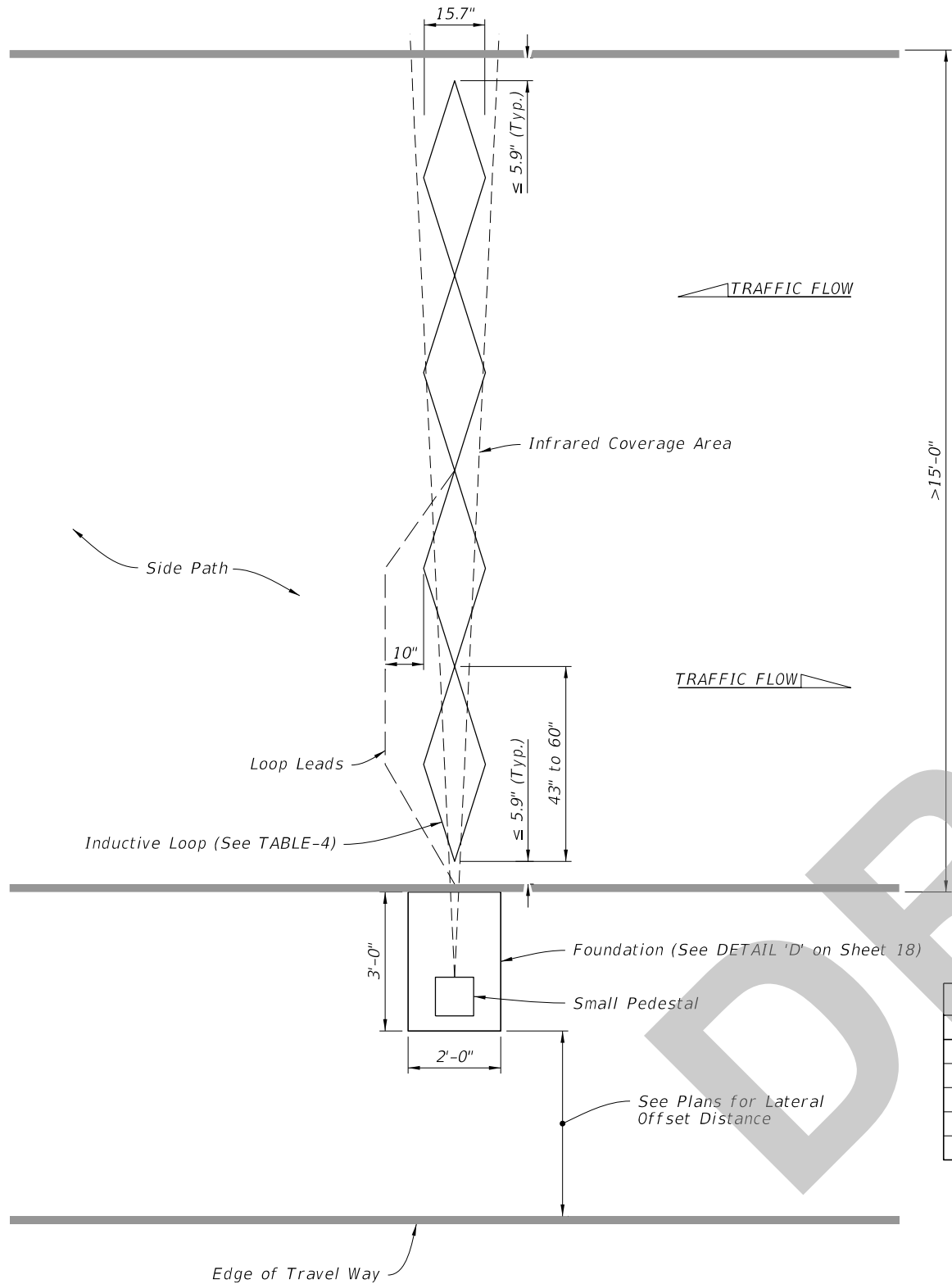
TABLE - 3	
Lane Width	Loop Length
133.9" to 141.7"	43.3"
145-7" to 153.5"	47.2"
157.5" to 165.4"	51.2"
169.2" to 177.2"	55.1"
181.1" to 189"	59.1"

SHARED USE PATH CONFIGURATIONS

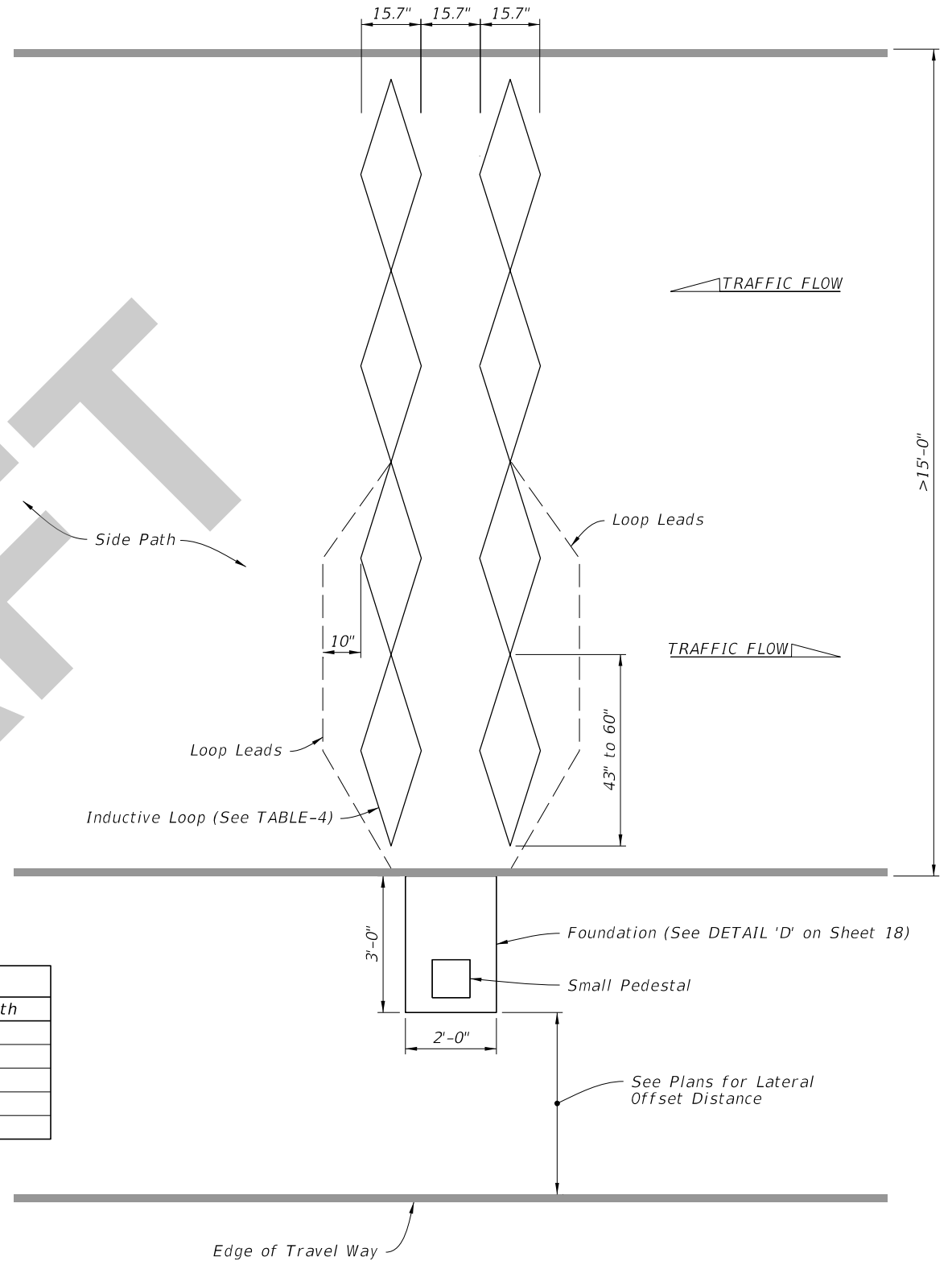
NON-MOTORIZED MONITORING SITE

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FOUR LOOP ASSEMBLY
(Directional Recognition With Infrared)



QUADRUPLE LOOP ASSEMBLY
(Directional Recognition Without Infrared)

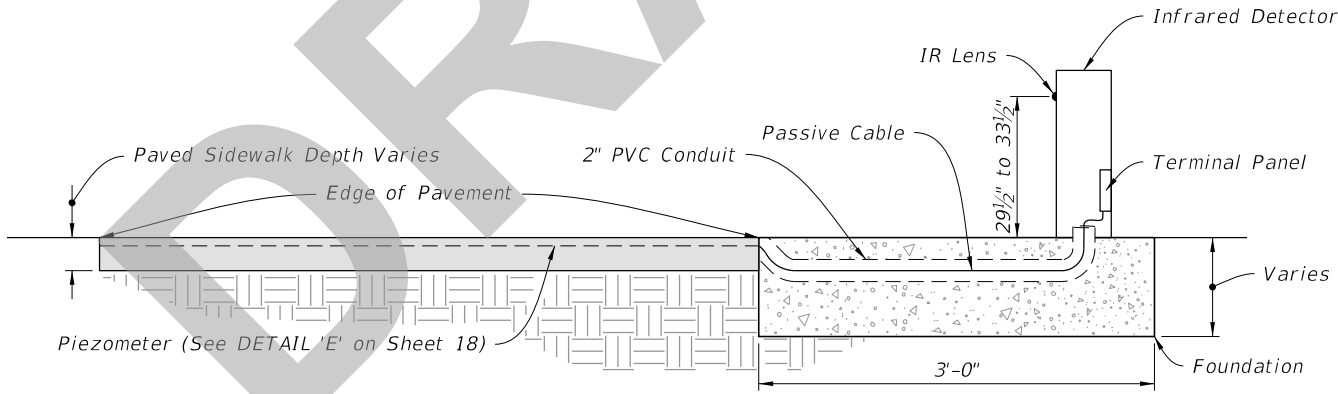
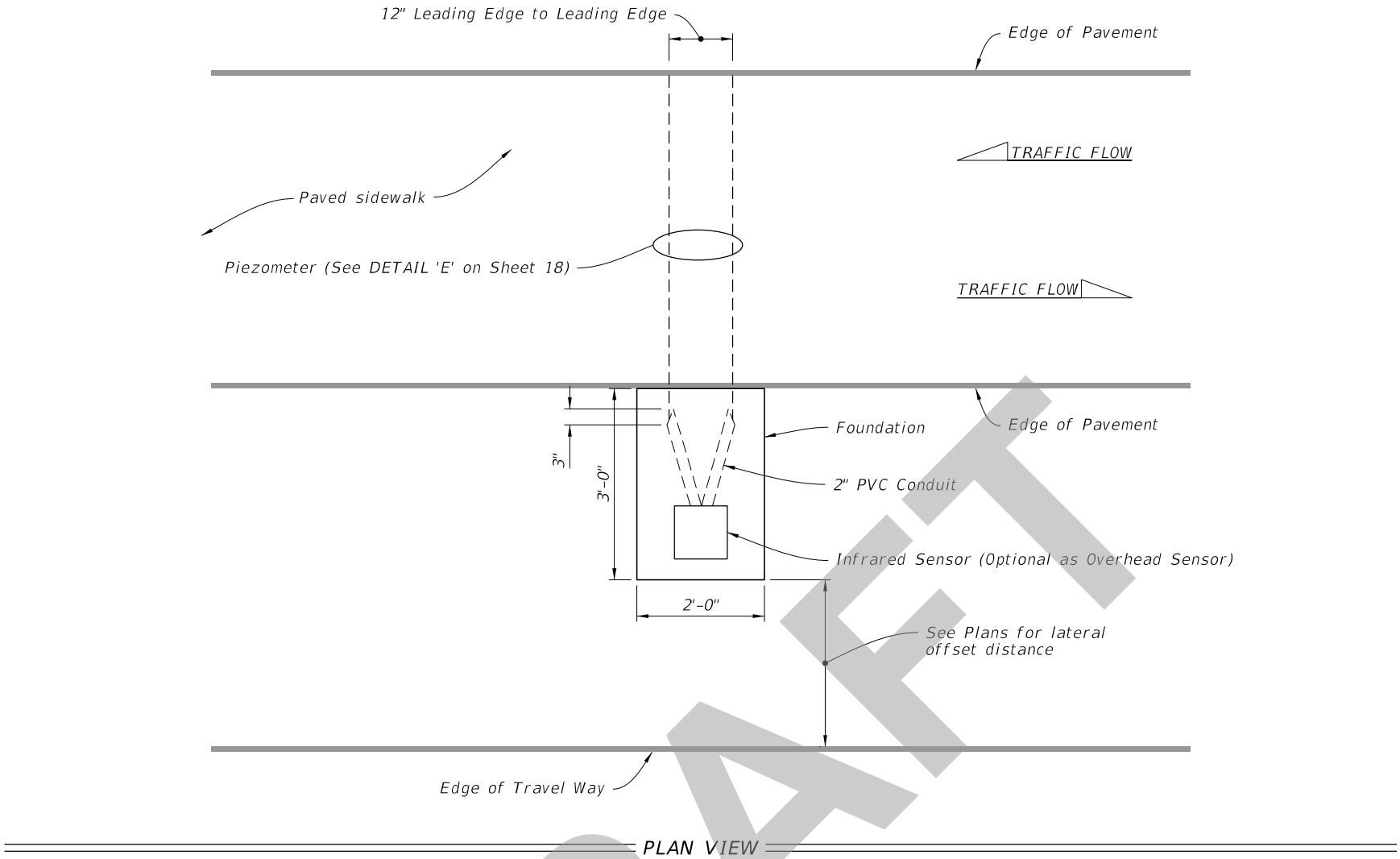
TABLE - 4	
Lane Width	Loop Length
173.2" to 185"	43.3"
188" to 200.8"	47.2"
204.7" to 216.5"	51.2"
220.5" to 232.3"	55.1"
236.2" to 248"	59.1"

EXTRA LARGE SHARED USE PATH CONFIGURATIONS

NON-MOTORIZED MONITORING SITE


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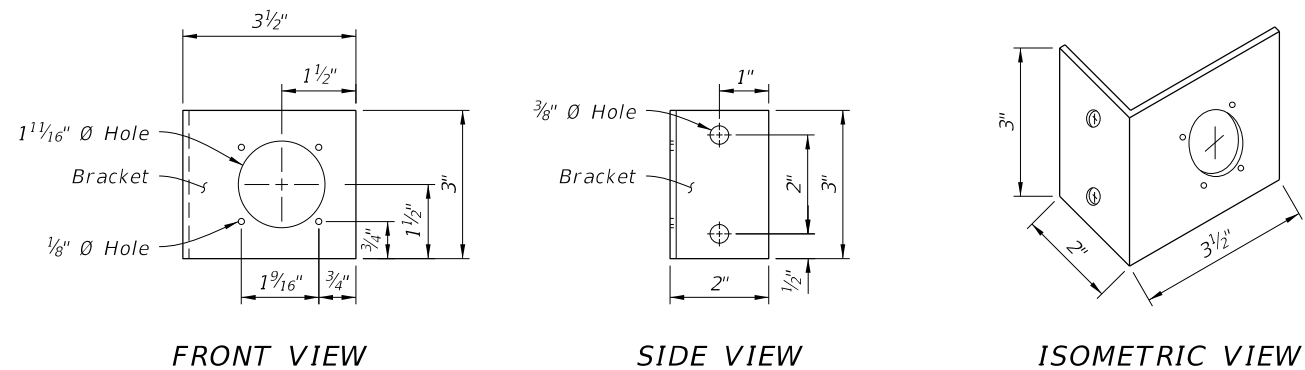
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PAVED SIDEWALK CONFIGURATION

NON-MOTORIZED MONITORING SITE

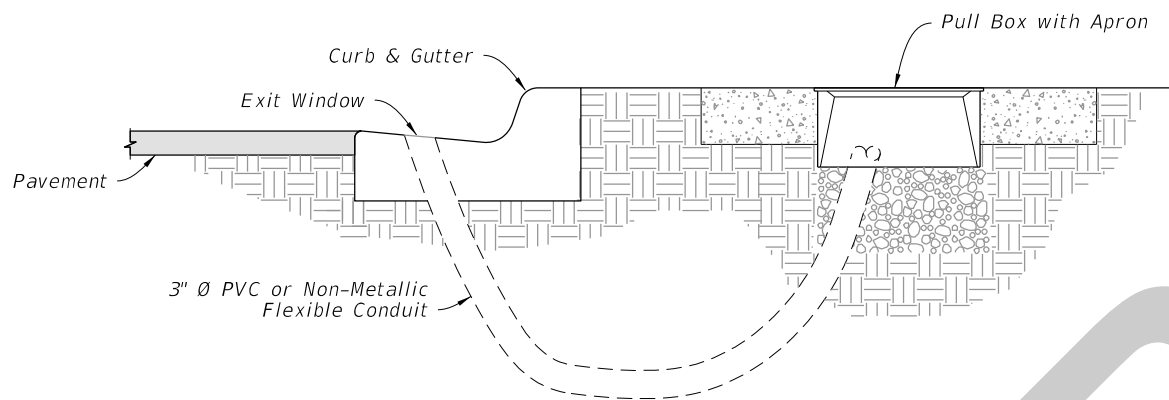
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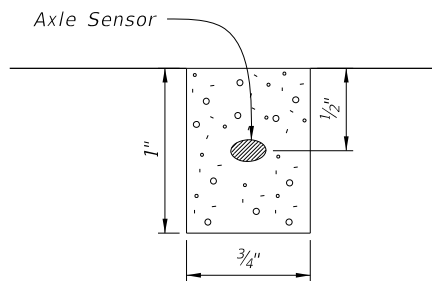
NOTE:
 Fabricate bracket out of $\frac{3}{32}$ " - $\frac{1}{8}$ " inch thick aluminum. Dimensions may vary depending on the manufacturer of the J1 receptacle being furnished. The cabinet manufacturer will construct the mounting bracket to fit the receptacle.

J1 MOUNTING BRACKET

DETAIL 'A'

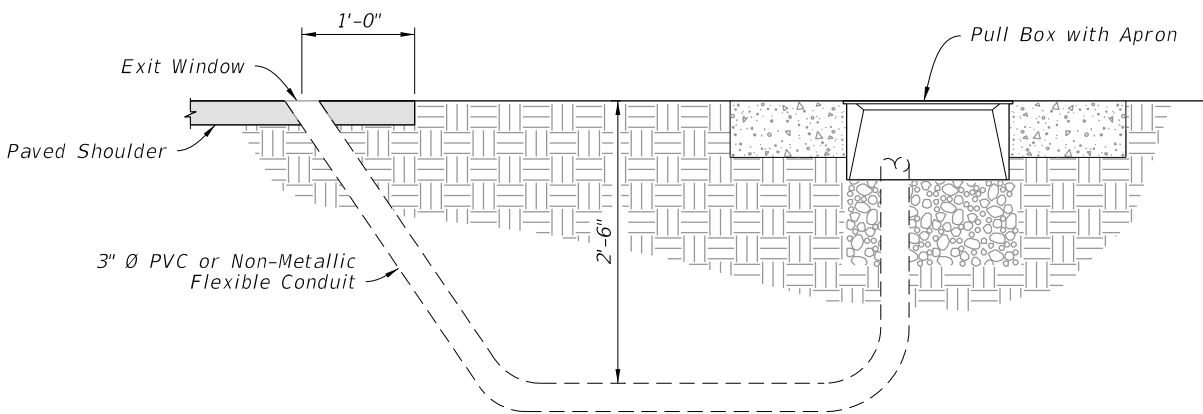


DETAIL 'C'

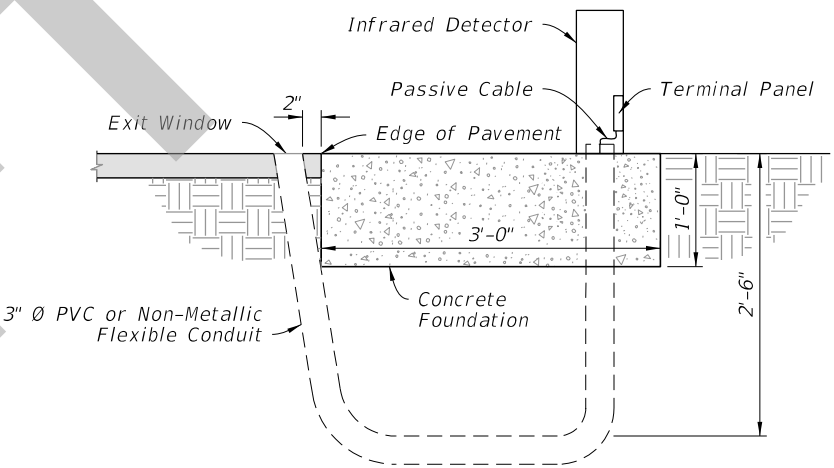


**END VIEW
 (Axle Sensor Slot)**

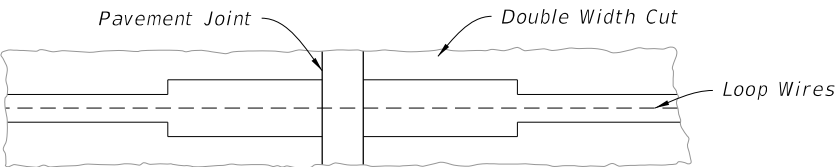
DETAIL 'E'



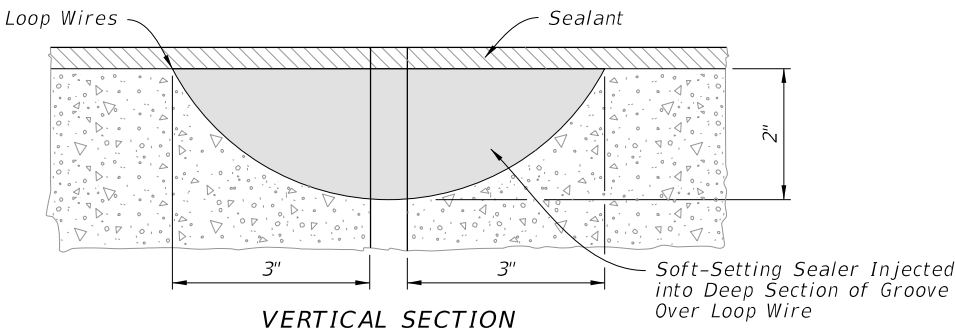
DETAIL 'B'



DETAIL 'D'



PLAN VIEW



VERTICAL SECTION

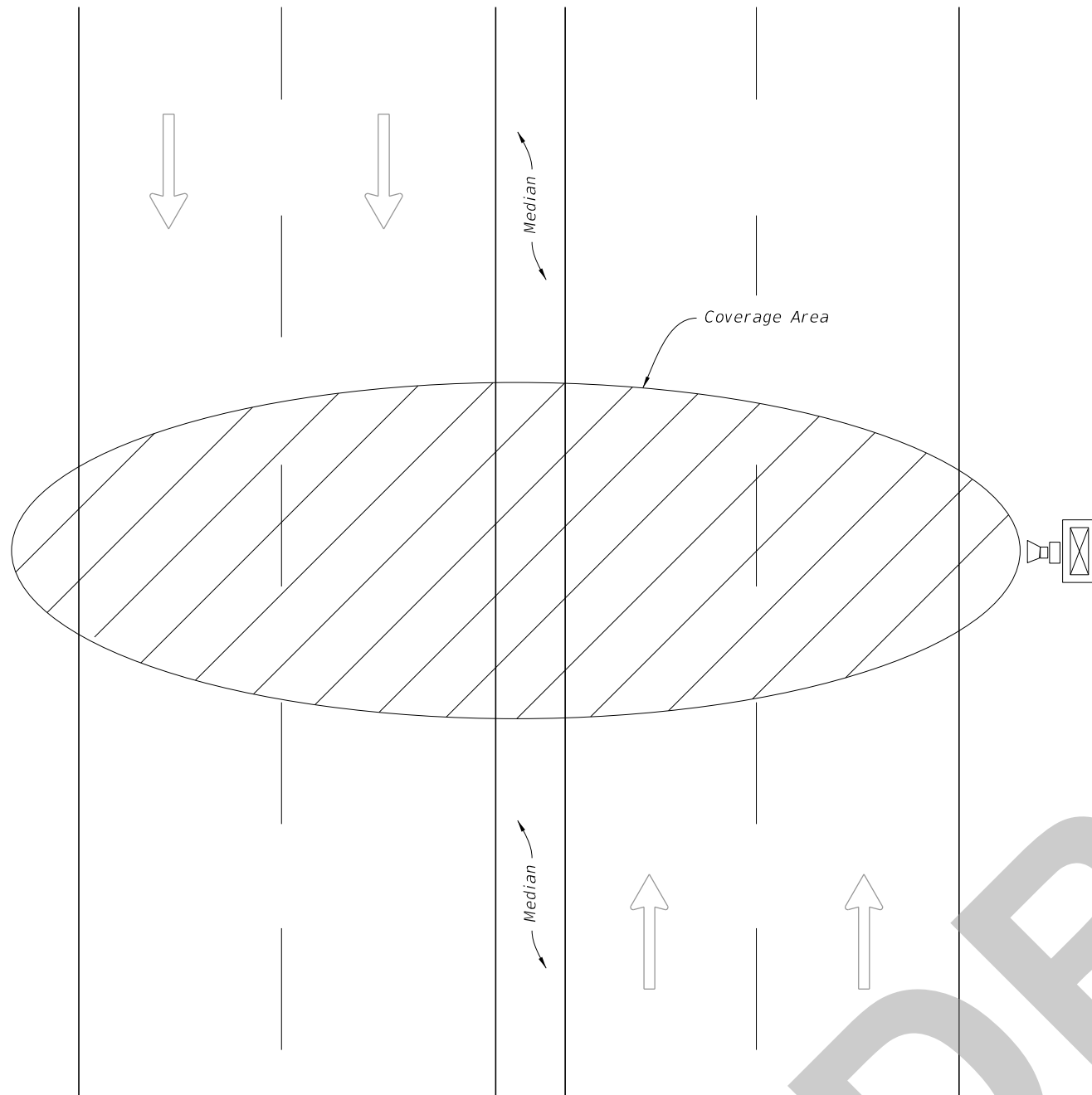
DETAIL 'F'

DETAILS 'A' THRU 'F'

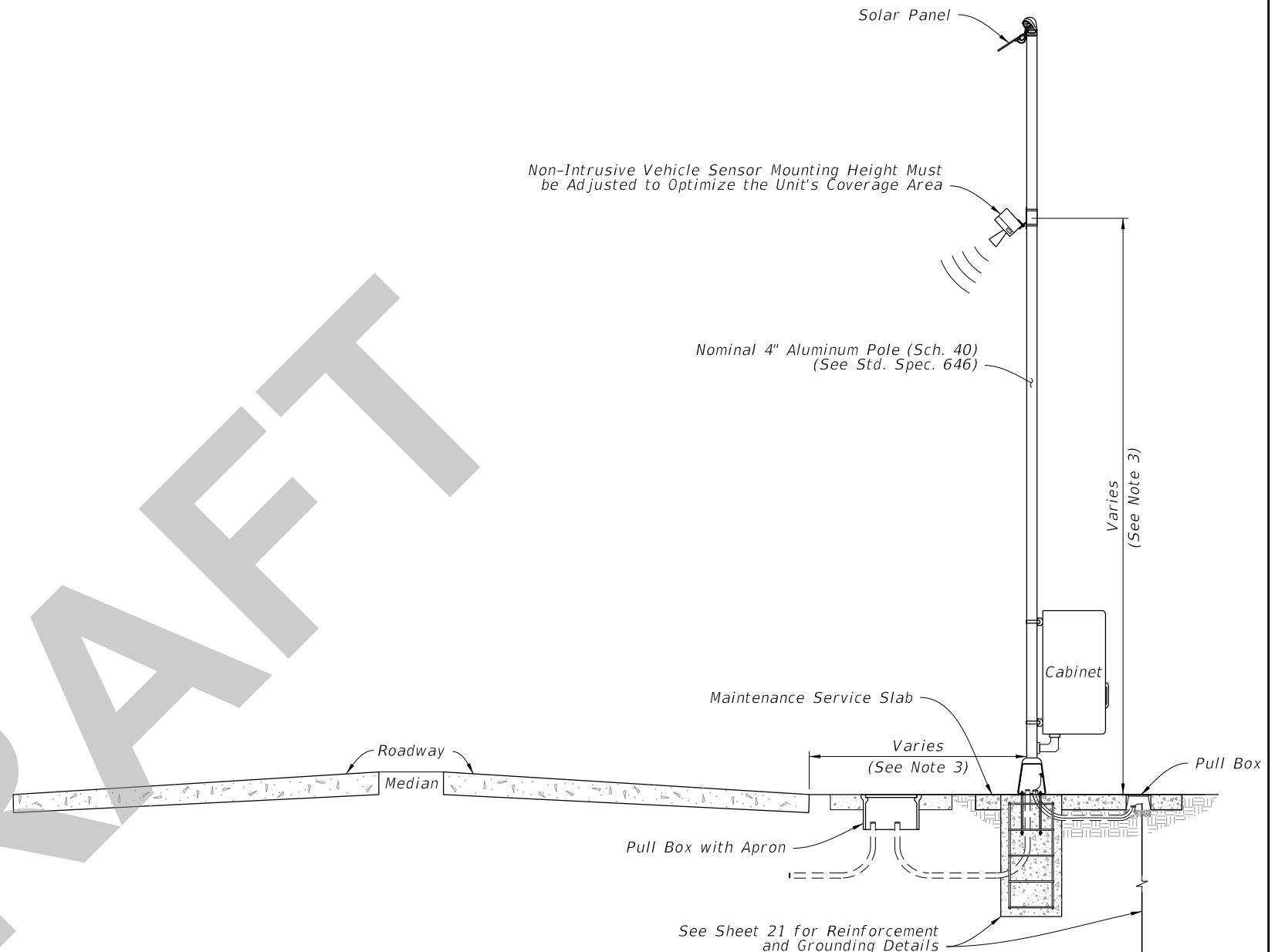
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PLAN




ELEVATION

NOTES:

1. The unit must be capable of detecting up to eight lanes of traffic (in either or both directions) when mounted perpendicular to the roadway.
2. Coverage area of the unit is affected by the roadway geometry: distance from the travel lanes, median type and width, barrier walls, etc.
3. 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. Offset of pole must be greater than or equal to minimum clear zone requirements.
4. Cabinet, ground rod pull box, and maintenance service slab installed per Index 676-010, except cabinet center will be 4 feet above grade.

NON-INTRUSIVE VEHICLE SENSOR

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