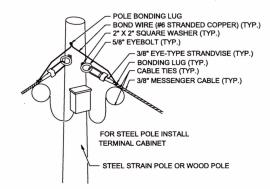


#### **DETAIL**



NOTE: MESSENGER CABLE SHALL BE BONDED TO STEEL POLE OR TO RISER BELOW WEATHERHEAD WITH TOWN & COUNTRY CLAMP ON WOOD POLE.

MESSENGER ATTACHMENT WITH

4" GALVANIZED LI BOLTS

MESSENGER CABLE

STAINLESS STEEL HUMPED COTTER PIN

STAINLESS STEEL

STAINLESS STEEL

1 ½" STEM

AS REQUIRED

BRONZE OR GALVANIZED HANGER

**BONDING LUG AND BOND WIRE** 

SUSPENSION FITTING

## USE U-BOLT CLAMP WHEN DETECTOR IS HUNG BEFORE MOUNTING APPLY WATERPROOF TAPE TO THREADS AS DIRECTED BY MANUFACTURER CABLE TIES 8" MIN. LOOP DETECTOR CABLE (INSIDE VIEW OF TOP COVER) NOTE: KNOCK OUT WEEP HOLE BEFORE INSTALLING

NOTE: ROUTE CONTROL CABLES ABOVE ATTACHMENT POINT SO THEY DO NOT CONTACT DETECTOR

OPTICOM DETECTOR SPAN WIRE INSTALLATION

ESSENGER CABLE

TRI-STUD ADAPTOR

WHEN CONDUCTORS ENTER AND EXIT THE SIGNAL HEAD,

INDIVIDUAL CONDUCTORS SHALL BE CRIMPED TOGETHER WITH

A NUMBER 10 FORKED TONGUE

TRI-STUD ADAPTOR

TETHER WIRE

SUSPENSION FITTING

1 1/2" STEM AS REQUIRED

NOTE

CONNECTOR

CABLE CLAMP

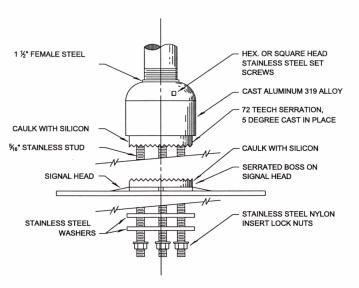
8" MIN. LOOP

STARDARD SIGNAL HEAD

OR ILLUMINATED SIGN CABINET

CABLE TIES

BACKBOARD



NOTE : ALL SET SCREWS SHALL BE DRILLED & TAPPED TO ALLOW SET SCREW TO EXTEND INTO ADJACENT PART.

## VEHICLE SIGNAL MOUNTING DETAIL TRI-STUD ADAPTER

T.E. WIDTH HEIGHT DEPTH DIA.

x | y | d |

1 6 8 4 2

2 8 10 4 21/2

3 8 16 4 3

4 12 16 4 3

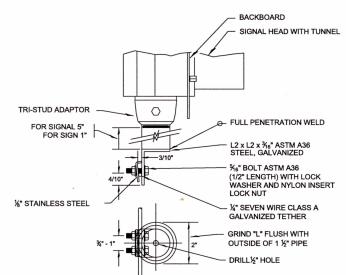
5 | 12 | 16 | 6 | 3 1 / 2

# TURNBUCKLE DETAIL **TETHER WIRE DETAIL**

6" TAKEUP MINIMUM

1/4" SEVEN WIRE CLASS A GALVANIZED TETHER

- STRAIN POLE



CABLE STRANDVISE

- BREAKAWAY "S" HOOK, PROVIDED BY THE CITY THIMBLEYE BOLT WITH SQUARE WASHER

TURNBUCKLES SHALL BE CONSTRUCTED OF

HOT-DIPPED GALVANIZED STEEL WITH A
MINIMUM WORKING LOAD OF 2200 POUNDS.

TURNBUCKLE (See Detail)

HIMBLEYE BOLT WITH 2 NUTS & SQUARE WASHER

EYEBOLT IN SAME VERTICAL PLAN AS MESSENGER CABLE EYEBOLT

### WIRE CLAMP FOR STANDARD VEHICLE SIGNAL AND ILLUMINATED SIGN

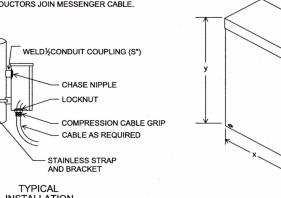
VEHICLE SIGNAL BACKBOARD

TO VEHICLE SIGNAL

- 1 BOND MESSENGER TO GROUNDING BUSHING OUTSIDE OF AND ON THE BOTTOM OF TERMINAL CABINET. 2- ON WOOD POLES FASTEN TERMINAL
- CABINET WITH 2-1/4" x 2" LAG SCREWS. 3- CONDUCTORS INTO A METAL POLE SHALL BE ROUTED OVER THE EYEBOLT ABOVE

**NOTES** 

- THE TERMINAL CABINET. EYEBOLT THREADS WITHIN THE POLE SHALL BE TAPED. 4-8" MINIMUM LOOP REQUIRED WHERE
- CONDUCTORS JOIN MESSENGER CABLE.



INSTALLATION ON STEEL STRAIN POLE

SPAN WIRE SUSPENDED SIGNAL HEAD OR SIGN CABINET

RAINTIGHT TERMINAL CABINET

NOT TO SCALE

The selection and use of this Standard Detail, while designed in accordance with generally accepted engineering principles and practices, is the sole responsibility of the user.

BUREAU OF TRANSPORTATION CITY OF PORTLAND, OREGON

Chief Engineer

Standard Detail Title

SIGNAL EQUIPMENT SPAN WIRE INSTALLATION **DETAILS** 

All material and workmanship shall be in accordance with the City of Portland Standard Construction Specifications.

Effective Date: 03/15/12

Calc. Book No.: N/A

P-628

Standard Detail No.

Baseline Report Date: N/A