Advanced Inspection Class Illumination and Signal Systems WSDOT

This Class Was Gary's Plan to Improve the Process



Document Hierarchy

- 1) Addenda
- 2) Proposal form
- 3) Special provisions (White Pages)
 - a. A list is included for all Standard Plan numbers that are applicable to that contract.
- 4) Contract plans
- 5) Amendments to standard specifications (Pink Pages)
- 6) Standard specifications (8 20) (9 29)
 - a. 8-20.1(1) "Regulations and Code" includes NEC.
- 7) Standard plans (J)

CONTACTS

- **1. Electrical Inspector**
- 2. Maintenance / Signal Division / ITS
- 3. Regional Traffic Engineer
- 4. Fabrication Inspector
- 5. Headquarters Bridge and Materials Laboratory
- 6. Serving Utility, Vendors, Manufacturer's Representatives and Utility Engineer

Materials Documents

- 1. Record of Materials
- 2. RAM and QPL
 - a. Preliminary Samples
- 3. Catalog Cuts
- 4. Shop Drawings
- **5. Fabrication Inspection**
- 6. Plant Certifications and Mix design
- 7. Review Salvaged, Abandoned, As Ordered

Contractor Submittals

- 1. Traffic Control Plan
- 2. Pollution Control Plan
- 3. Schedule





- 8-20.4
- 9-29.6(5)

J-1b 1 of 3

Standard Plan J-1b





J-1b 2 of 3

Standard Plan J-1b

REEPER PLATE Place between pole base plate and slip plete on top of middle washers.

SUP/ANCHOR PLATES DETAIL Smachn finish too, bottom, and notched surfaces

DATE

#EV1510H

STEEL LIGHT STANDARD BASE DETAILS

STANDARD PLAN J-1b

SHEET 2 OF 3 SHEETS

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APPROVED FOR PUBLICATION Clifford E. Mansfield 10/08/99 DEPUTY STATE DESIGN ENGINEER DATE WASHINGTON STATE DEPARTMENT OF TRANSPORTATION DELVERIA, MASHINGTON

Corrugated Tube/Wet Hole

Luminaire Foundation

12:31 PM

Wrong

Correct

2:34 PM

Styrofoam Form for Sump in Top of Base

Standard Plan J-1b

6-02.3(17)N Page 385

Remember that forming Materials have to be Removed entirely.

Base Poured Styrofoam Removed

Supplemental ground is the bare number 6 wire.

17 10:54AM

Concrete Vibrator

Luminaire Base / Barrier

FEB 24 2005

Working Clearances at Hand Hole NEC Table 110.26(A)(1)0 - 150 volts = 900mm clearance 151 - 600 volts = 1M clearance

J-1b 3 of 3

- See Standard P on C-Bb for base plate and foundation requirements when light standards are mounted on concrete harrier.
- Round and smooth all edges along wire-way to protect conductors, See Standard P on Lile for wiring ceta' is.
- 3. The top of the anchor rod shall be both invested and galvanized a minimum of $12^{\prime\prime}$. The bottom of the anchor rod shall be threaded a minimum of 3°. Calvanizing shall be in gapaneous with AASHTO Mill efter threading. Hackes anchor botts are not allowed,
- 4. Strop templotes shall be held in place by nuts 6° from the top of the foundation, and at bottom of aricher bolts resting on 4 \times 36 square washers.
- 5. Pole base plate for a slip base design shall be $1/4^{\prime\prime}$ AASH10 M223 Gr. 345. Fole base plate for a fixed base design may be either $1/4^{\prime\prime}$ AASH10 M233 Gr. 345 or $1/5^{\prime\prime}$ AASH10 M33.
- R. Installation of a 50' pole with double most arms on a slip base is not allowed.

SECTION C-C

Light Base (Slip Base)

J-1b

Standard Plan J-1b

Extend a Base

High Mast Bolts and Top Cage

Drilling a Sign Base

Augured Hole

Rebar Cage and Bolts

Check the Grade

Ready for the First Pour

Use a Tremie for Deep Pours

Another Tremie

Strain Pole Bolts & Bottom Nut

43 Foot Deep Signal Base

5

18 12:39 PM

Set Up Deep Base

2:01 PM

18

BAI TONG

18

Pouring Deep Base

Set up to Pour Pad Foundations

Steel Couplings at Foundation Surface

Pad Foundation for Multiple Cabinets

6.11033

Each cabinet should have a drain tube
A supplemental ground should be connected to the rebar and routed the Transformer Cabinet Ground

teel Coupling Eash With Surface

No Steel Coupling Poor Placement

T.T.I

Spare Conduits Need Coupling Flush With Surface and Steel Plug

Keep Ground Tile Far Enough in That the Corners Will Not Break off

Removal of Forms

- 6-02.3(17)N
- Forms shall be removed whether above or below ground level.

6-02.3(17)N Page 385