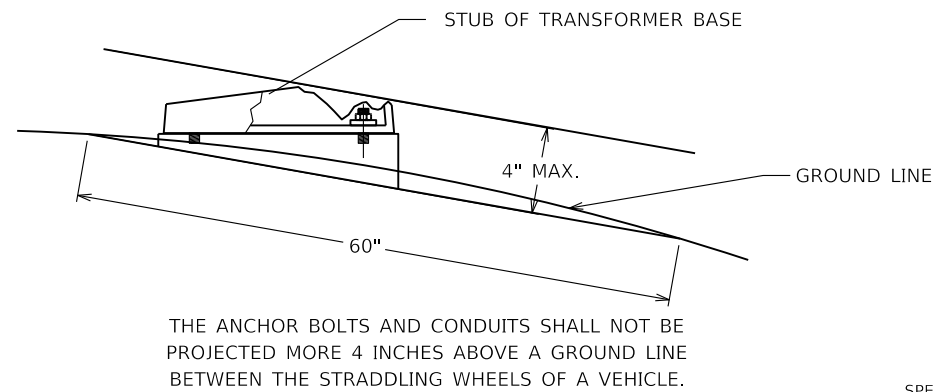


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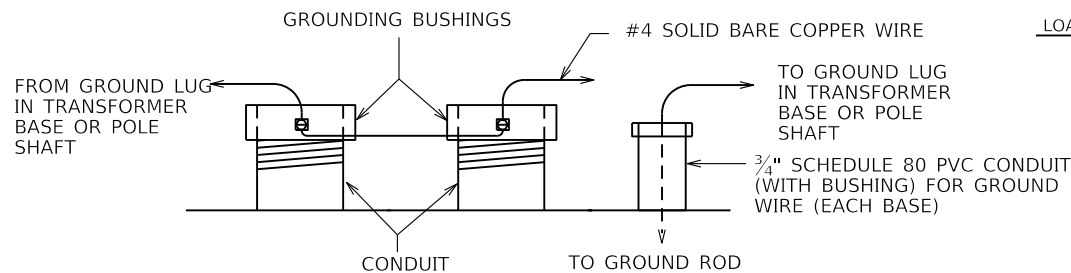


BREAKAWAY SUPPORT STUB HEIGHT MEASUREMENT

DUCTED CABLE INSTALLED THROUGH 3" CONDUIT CROSSINGS TO LUMINAIRE POLE BASE:
INSTALL DUCTED CABLE INTO THE POLE BASE. THE DUCT SHOULD BE EXTENDED 1" ABOVE THE CONDUIT. THE CONDUIT SWEEP SHOULD BE INSTALL ACCORDING TO THE MANUFACTURER OF THE DUCTED CABLE TO PREVENT THE DUCTED CABLE FROM CRIMPING.

IF DUCTED CABLE INSTALLED BETWEEN POLE BASES:
INSTALL RIGID STEEL/DUCTED CABLE COUPLING. USE BONDUIT CONDUIT ADHESIVE OR APPROVED EQUAL TO CONNECT THE RIGID STEEL TO DUCTED CABLE. RACEWAYS SHALL BE THE SAME SIZE AS THE DUCTED CABLE WHICH ATTACHES TO THE RIGID STEEL CONDUIT. ALTERNATELY IF DUCTED CABLE IS USED, THE CONTRACTOR CAN INSTALL RIGID STEEL CONDUIT TWO TIMES THE SIZE OF THE DUCT AND RUN THE DUCT INSIDE THIS CONDUIT. THE SWEEP FOR THE CONDUIT SHALL BE INCREASED TO ADHERE TO THE BENDING RADIUS RECOMMENDED BY THE MANUFACTURER OF THE DUCT.

SPECIAL NOTE FOR THE TRANSFORMER BASE:
FUSED CONNECTOR KITS SHALL BE INSTALLED
FOR ALL 120 VOLT WIRING IN TRANSFORMER
BASES. THIS WILL ONLY BE NEEDED FOR
PEDESTRAIN HEADS AND SIGNALS HEADS.
PEDESTRAIN DETECTORS DO NOT REQUIRE
FUSED CONNECTOR KITS. CONTRACTOR CAN
USE ONE KIT FOR A COMMON NEUTRAL FOR
ALL DEVICES IN THE TRANSFORMER BASE.
THERE SHALL BE A METAL LUG INSTALLED IN
THE NEUTRAL WIRE KIT INSTEAD OF A FUSE.



TYPICAL GROUNDING DETAIL

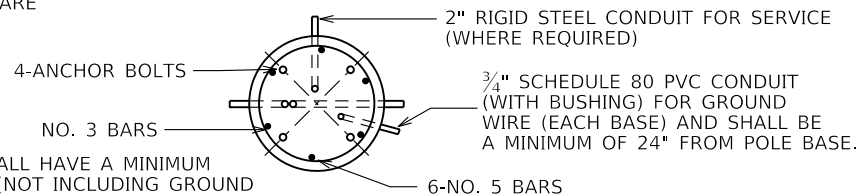
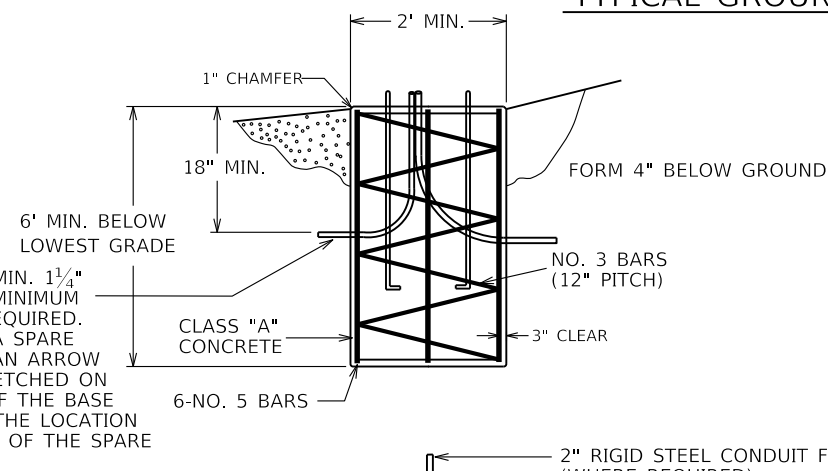
GROUNDING REQUIREMENTS:

CONTRACTOR SHALL PROVIDE A MINIMUM OF 6 INCHES OF GROUND WIRE FOR TESTING PRIOR TO CONNECTING THE WIRE TO TRANSFORMER BASE.

POLE/TRANSFORMER BASE GROUND - GROUND WIRE SHALL COME FROM THE GROUND ROD THROUGH THE PVC CONDUIT, CONNECTING TO THE TRANSFORMER BASE/POLE AND THEN TO EACH RIGID STEEL GROUNDING BUSHING.

NOTES:

ALL CONDUITS USED FOR THE GROUNDING, SPARES AND CONDUCTORS THAT ARE INSTALLED IN THE POLE BASE ARE INCIDENTAL TO BID ITEM "4740". THIS INCLUDES PROVIDING A MINIMUM OF 24 INCHES OF CONDUIT PAST THE EDGE OF THE POLE BASE.

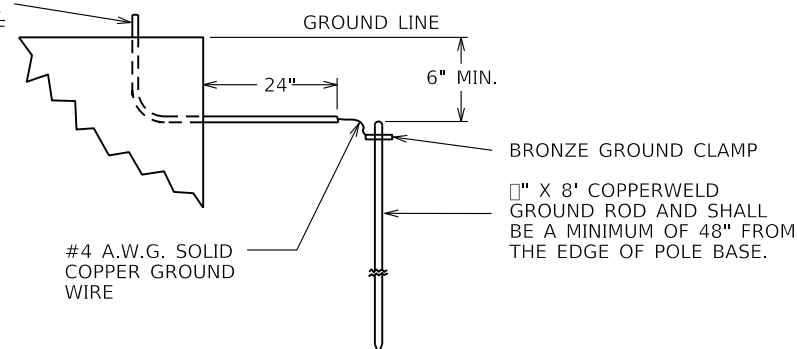


ALL POLE BASES SHALL HAVE A MINIMUM OF TWO CONDUITS (NOT INCLUDING GROUND CONDUIT). THE SPARE CONDUIT SHALL BE 180 DEGREE FROM THE CONDUIT FOR THE CONDUCTORS.

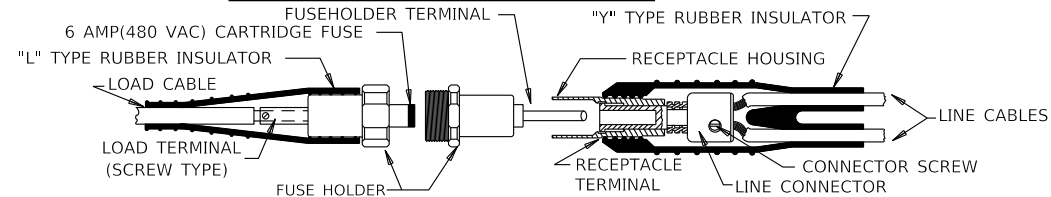
NOTE: PRECAST CONCRETE
BASES ARE NOT
ACCEPTABLE

FOUNDATION DETAIL

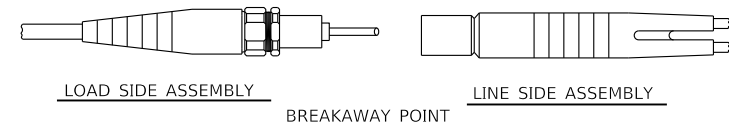
GROUNDING DETAIL



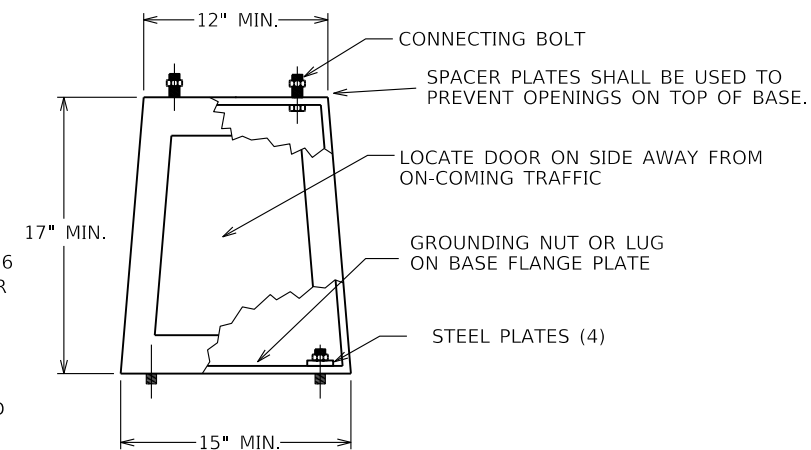
BREAKAWAY FUSE CONNECTOR KIT



DETAILS OF TYPE HEB-JW-RYC CONNECTOR



TYPE HEB-JW-RYC CONNECTOR SHOWN



CONCRETE BASES SHALL BE POURED LEVEL.
NO MORE THAN A 1/4" GAP SHALL EXIST BETWEEN
CONCRETE BASE AND TRANSFORMER BASE WHEN THE
POLE IS PLUMBED.

SIGNAL LUMINAIRE

TYPICAL

CAST ALUMINUM TRANSFORMER BASE

NOTE:
THE TRANSFORMER BASE DOOR SHALL HAVE A 4" BY 6" SHOCK HAZARD WARNING STICKER
INSTALL 3" FROM THE TOP OF THE DOOR.
THE STICKER SHALL BE METALCRAFT
PLY695 PREM STYLEMARK LABEL WITH
.007 THICKNESS, WITH UV WHITE
POLYCARBONATE MATERIAL, AND WITH
MC53FL PRESSURE SENSITIVE ADHESIVE
OR APPROVAL EQUAL. THIS SHALL BE
INCIDENTAL TO PROJECT.

SPECIAL NOTE FOR THE TRANSFORMER BASE:
FURNISH A SHOCK HAZARD WARNING STICKER ON
DISCONNECT WITH THE FOLLOWING INFORMATION:
VOLTAGE (120 VOLT)
GLOVE CLASS (0)
LIMITED APPROACH BOUNDARY (42 IN)
RESTRICTED APPROACH BOUNDARY (CONTACT)
SEE NFPA 70E FOR ADDITIONAL PPE REQUIRED

SIGNAL
TRANSFORMER BASE DETAIL