

COUNTY OF	ITEM NO.	SHEET NO.

SPECIAL NOTE:  
DISCONNECTS (SAFETY SWITCH) AND METER BASE SHALL BE UL RATED FOR COMMERCIAL USE. DISCONNECTS (SAFETY SWITCH) AND METER BASE SHALL BE ALUMINUM ENCLOSURE. THE CONTRACTOR SHALL BE RESPONSIBLE TO CALCULATED THE MAXIMUM AVAILABLE FAULT CURRENT FOR THE SERVICE EQUIPMENT THAT IS INSTALLED. THE CONTRACTOR SHALL SUPPLY A STICKER THAT WILL BE INSTALLED IN THE DISCONNECT WITH THE SYMMETRICAL RMS AMPERES AND THE DATE THAT THIS FAULT CURRENT IS CALCULATED. THE STICKER SHALL BE 4" LONG AND 4" WIDE AND BE METALCRAFT PLY425 PREM STYLEMARK LABEL (OR APPROVED EQUAL) WITH .007 THICKNESS, WITH UV WHITE POLYCARBONATE MATERIAL, AND WITH MC778 PRESSURE SENSITIVE ADHESIVE OR APPROVED EQUAL.

NOTES:

ALL CONDUITS USED FOR THE TELEPHONE, GROUNDING, SPARES, AND SERVICE (INCLUDING FLEX CONDUIT IF IT IS RUN INSIDE THE POLE) THAT ARE INSTALLED ON THE POLE AND/OR IN THE CABINET BASE ARE INCIDENTAL TO BID ITEM "4931". THIS INCLUDES PROVIDING A MINIMUM OF 24 INCHES OF CONDUIT PAST THE EDGE OF THE CONCRETE PAD.

ALL CONDUITS SHALL BE INSTALLED BETWEEN 4 TO 6 INCHES ABOVE THE CONCRETE PAD, AND THEY CANNOT EXCEED THE 6 INCH HEIGHT.

SERVICE WIRES FOR BASE MOUNTED CABINETS MAY BE INSTALLED IN FLEXIBLE CONDUIT FROM THE DISCONNECT TO THE 1" RIGID STEEL CONDUIT INSIDE THE POLE BASE. USE THE PROPER CONNECTIONS FOR TRANSITION FROM FLEXIBLE CONDUIT TO R S CONDUIT. FLEXIBLE CONDUIT SHALL NOT BLOCK THE HAND HOLE OR THE ABILITY TO ACCESS THE GROUNDING SYSTEM.

SERVICE POLE WITH METER BASE AND SERVICE DISCONNECT (SEE SECTION 835 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION)

BLADE STYLE ANTENNA AND ROUTER INSTALLATION-  
INSTALL ON THE THE BACKSIDE OF THE CABINET OPPOSITE THE MAIN POWER INSTALLATION. THE CONNECTION TO THE TOP OF THE CABINET SHALL BE WATER TIGHT AND BE FLUSH WITH THE TOP OF THE CABINET. ALL WIRING SHALL BE RUN DOWN THE SIDE OF THE THE 19TH RACK. THE ROUTER SHALL BE INSTALLED ON THE PROVIDED SHELF IN THE BACK OF THE CABINET.

GROUNDING BUSHING

LOCKNUT (TYP)  
(BOTH SIDES)

CABINET HOUSING

R S CONDUIT

LB CONDULET

GROUND ROD FOR CABINET  
INSTALLED BELOW GROUND  
(LEAVE TOPS EXPOSED FOR  
ELECTRICAL INSPECTION)

SPECIAL NOTE FOR THE DISCONNECT:  
ONLY CONNECT ONE SIDE OF THE 120 VOLT IN THE DISCONNECT. THE OTHER SIDE OF THE 120 VOLT SHALL STILL BE INSTALL IN METER BUT NOT FEED DOWN TO THE DISCONNECT. 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

POLE MOUNTED CABINETS:  
2- 2" (MIN.) R S CONDUITS FOR  
SIGNAL WIRES. CONTRACTOR  
SHALL MODIFY SIZE/QUANTITY  
OF CONDUITS IN ORDER TO PROVIDE 1  
SPARE CONDUIT AND COMPLY WITH  
NEC REQUIREMENTS

GROUNDING REQUIREMENTS:

CONTRACTOR SHALL PROVIDE A MINIMUM OF 6 INCHES OF GROUND WIRE FOR TESTING PRIOR TO CONNECTING THE WIRE TO ANY DISCONNECT, CABINET OR POLE.

LEAVE TOP OF GROUND RODS EXPOSED FOR ELECTRICAL INSPECTION.

SERVICE GROUND - GROUND WIRE SHALL COME FROM THE GROUND ROD THROUGH THE PVC CONDUIT, CONNECTING TO THE DISCONNECT AND THEN TO EACH RIGID STEEL (R S) GROUNDING BUSHING. IF GROUND WIRE IS RUN ON THE INSIDE OF THE POLE, RUBBER GROMMETS SHALL BE PROVIDED AT DISCONNECT AND POLE CUT OUTS. THEY SHALL BE INCIDENTAL TO BID ITEM "4931".

CABINET GROUND - GROUND WIRE SHALL COME FROM THE GROUND ROD THROUGH THE PVC CONDUIT, CONNECTING TO THE CABINET GROUND BUS.

SPARE 2" SCHEDULE 80  
PVC CONDUIT STUBBED  
WITH END BELL BUSHING,  
AND CAPPED AT BOTH ENDS.

3/4" SCHEDULE 80 PVC  
GROUNDING CONDUIT  
WITH END BELL BUSHING.

ANCHOR BOLT (TYP.)

1" CHAMFER

FINISH GRADE TO DRAIN  
AWAY FROM ENCLOSURE

BLADE STYLE ANTENNA AND ROUTER INSTALLATION:  
INSTALL ON THE THE BACKSIDE OF THE CABINET OPPOSITE THE MAIN POWER INSTALLATION. THE CONNECTION TO THE TOP OF THE CABINET SHALL BE WATER TIGHT AND BE FLUSH WITH THE TOP OF THE CABINET. ALL WIRING SHALL BE RAN DOWN THE SIDE OF THE THE 19TH RACK. THE ROUTER SHALL BE INSTALLED ON THE PROVIDE SHELF IN THE BACK OF THE CABINET.

SECURE TO RACK

ATC OR 2070 CONTROLLER  
SERIAL CABLE  
ROUTER  
ETHERNET CABLE  
ETHERNET (ATC)

ROUTER INSTALLATION  
(REAR OF CABINET)

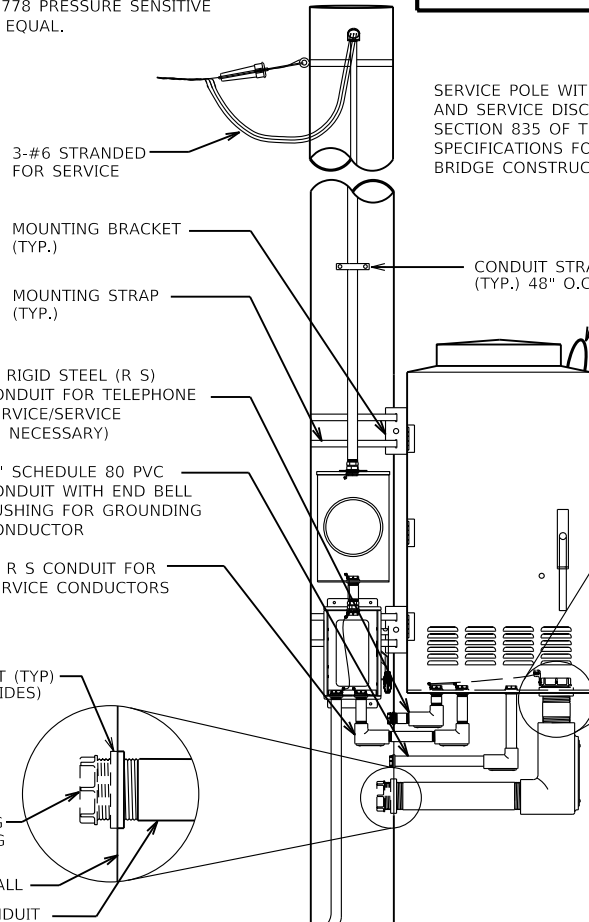
4- 2" (MIN.) SCHEDULE 80 PVC CONDUITS  
TO POLE BASE WITH END BELL BUSHING.  
CONTRACTOR SHALL MODIFY QUANTITY  
OF CONDUITS IN ORDER TO PROVIDE 1  
SPARE CONDUIT AND COMPLY WITH  
NEC REQUIREMENTS

1" R S CONDUIT FOR SERVICE

1" R S CONDUIT FOR TELEPHONE  
(IF NECESSARY)

SPECIAL NOTE FOR THE CABINET:  
FURNISH A WARNING STICKER ON  
CABINET WITH THE FOLLOWING INFORMATION:  
ARC FLASH HAZARD  
NO ARC FLASH PPE REQUIRED PER NFPA 70E  
SHOCK FLASH HAZARD  
VOLTAGE (120 VOLT)  
GLOVE CLASS (0)  
LIMITED APPROACH BOUNDARY (42 IN)  
RESTRICTED APPROACH BOUNDARY (CONTACT)  
SEE NFPA 70E FOR ADDITIONAL PPE REQUIRED

CONTROLLER CABINET  
AND ANTENNA/ROUTER DETAIL



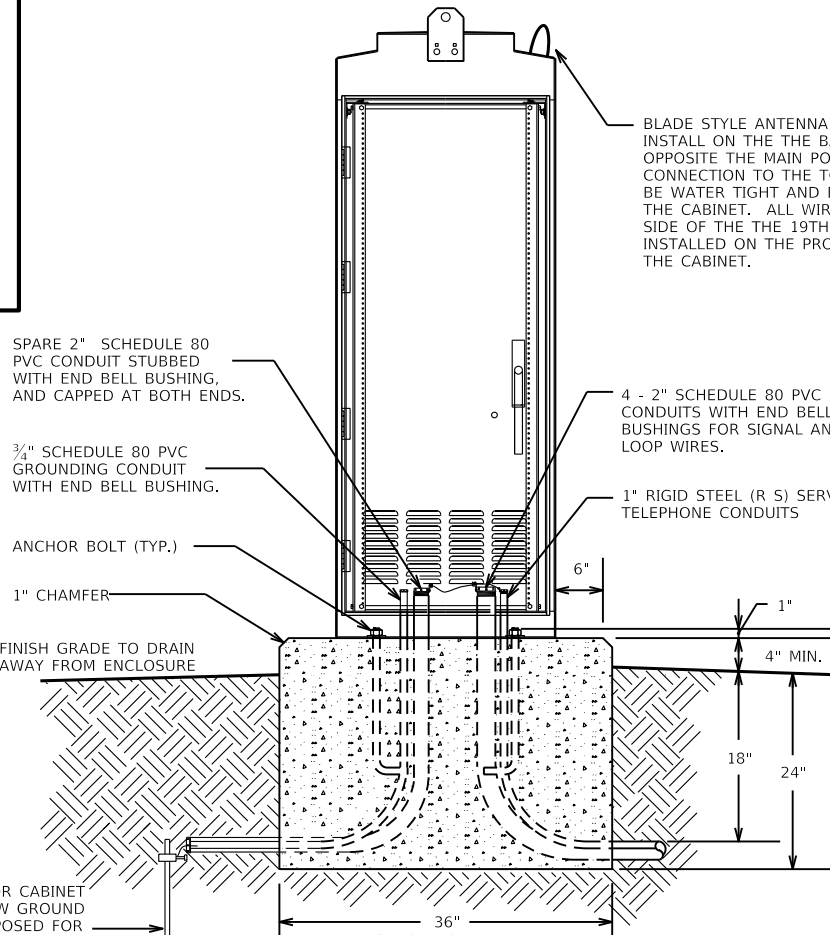
EXTERIOR CONDUIT MAY BE  
USED FOR EITHER OR BOTH OF  
THE FOLLOWING CONDITIONS:

FOR EXTERIOR SERVICE  
GROUNDING (OPTIONAL),  
USE 3/4" SCHEDULE 80 PVC

FOR UNDERGROUND SERVICE  
FEEDS, USE 1" R S CONDUIT  
TO METER BASE ON EXTERIOR  
OF POLE

SEE POLE BASE DETAIL SHEET  
FOR GROUNDING DETAILS.

STEEL POLE MOUNT ENCLOSURE



CONCRETE PAD

ANCHOR BOLT (TYP.)

ENCLOSURE BASE

GROUNDING CONDUCTOR

24"

3/4" SCHEDULE 80 PVC CONDUIT WITH END BELL BUSHING FOR GROUNDING CONDUCTOR(S)

GROUND ROD

DOOR (TYP.)

A

A

TOP VIEW

PAD MOUNT ENCLOSURE

FILE NAME: C:\USERS\JESSICA.GOODWIN\DESKTOP\PO3-CABINET BASE (CA).DGN

USER: Jessica Goodwin  
DATE PLOTTED: November 27, 2024

E-SHEET NAME:

OpenRoads Designer v23.00.01.11

7/1/2025