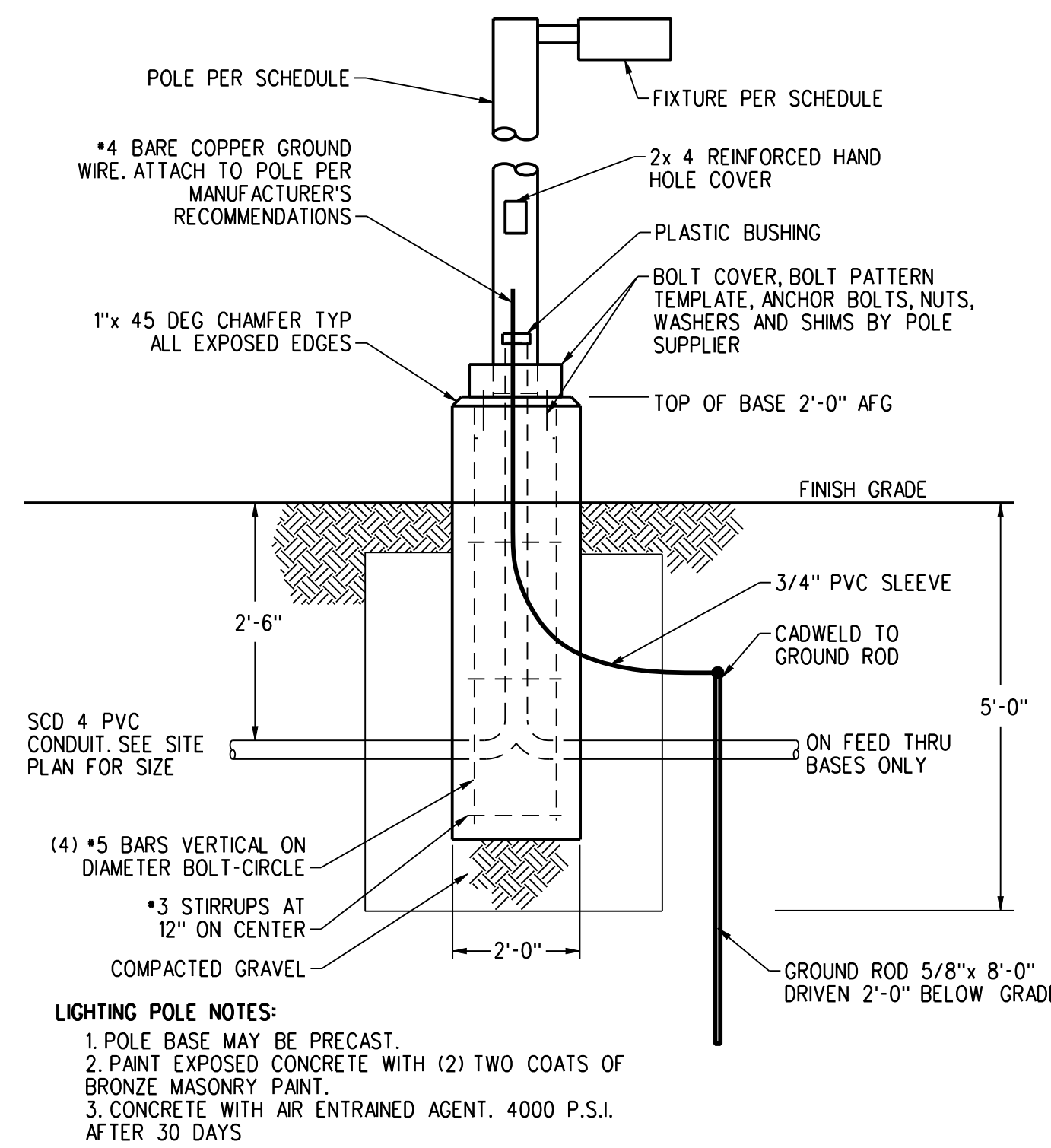


## SITE ELECTRICAL - GENERAL NOTES

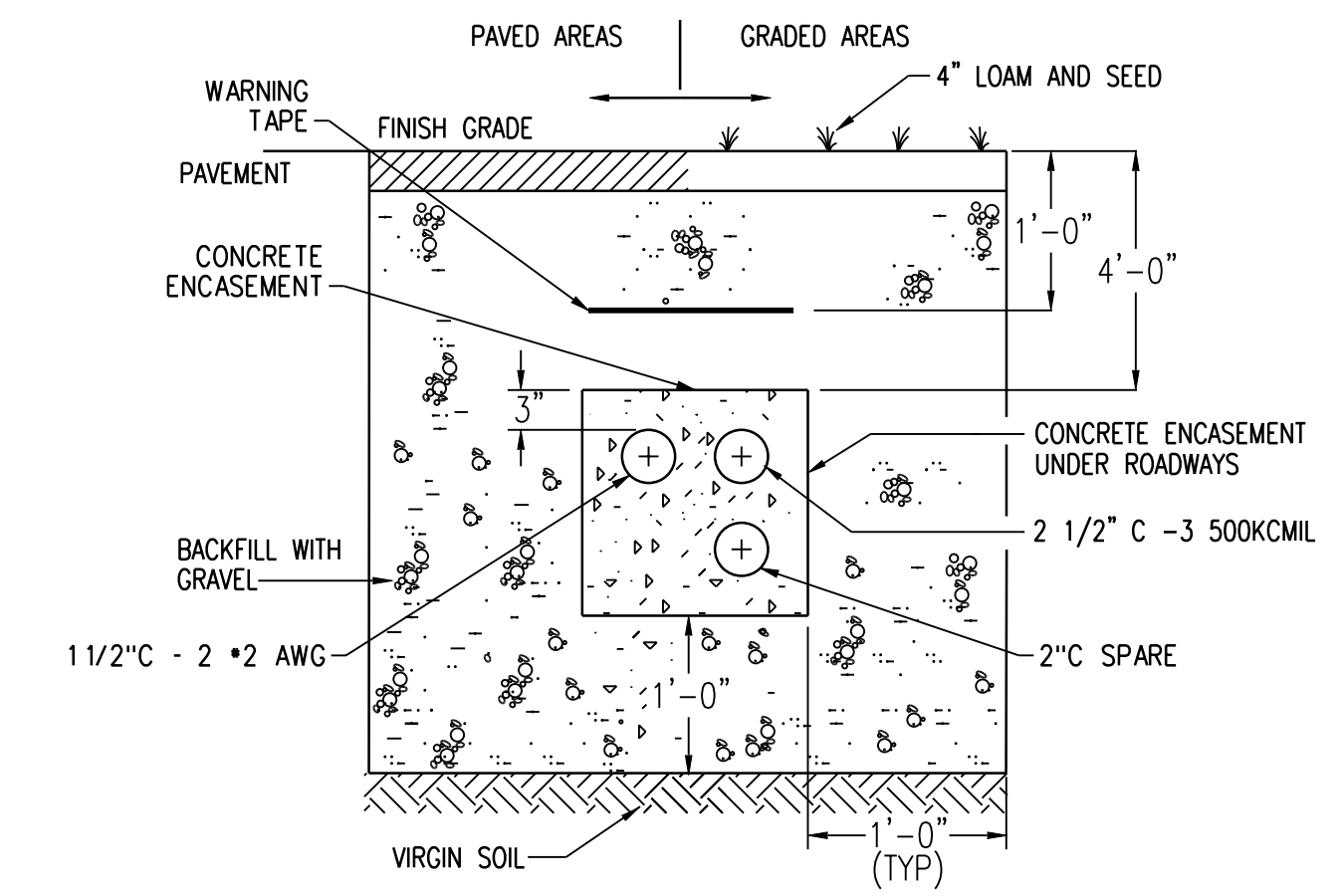
1. THE COMPLETE INSTALLATION SHALL CONFORM WITH ALL APPLICABLE FEDERAL, STATE AND LOCAL LAWS, CODES AND ORDINANCES, INCLUDED BUT NOT LIMITED TO APPROVED EDITIONS OF THE FOLLOWING: NATIONAL ELECTRICAL SAFETY CODE (ANSI C2) NATIONAL ELECTRICAL CODE (NFPA 70) OCCUPATIONAL SAFETY AND HEALTH ACT (OSHA) AND ALL AMENDMENTS THERETO. NOTHING CONTAINED IN THE DRAWINGS AND SPECIFICATIONS SHALL BE CONSTRUED TO CONFLICT WITH THESE LAWS, CODES, AND ORDINANCES, AND THEY ARE THEREBY INCLUDED IN THESE SPECIFICATIONS. OBTAIN PERMITS AND REQUEST INSPECTIONS FROM ALL AUTHORITIES HAVING JURISDICTION. COMPLY WITH ALL CMP FAIRPOINT COMMUNICATIONS, CABLE TELEVISION PROVIDER REGULATIONS AND STANDARDS.
2. THE FOLLOWING ELECTRICAL WORK SHALL BE PERFORMED UNDER THIS CONTRACT: UNDERGROUND CONDUIT, FITTINGS, AND ALL DEVICES; PROVISION OF HAND HOLES, NEW LIGHTING FIXTURES, POLES WITH ALL ACCESSORIES INCLUDING ANCHOR BOLTS AND POLE BASES; PROVISION OF UNDERGROUND CONDUIT AND WIRE TO SERVE NEW LIGHTING EQUIPMENT AND RECEPTACLES; PROVISION OF SERVICE EQUIPMENT, INCLUDING OUTDOOR CABINETS, GROUNDING, METER ENCLOSURES, AND WEATHERPROOF RECEPTACLES.
3. CMP (ELECTRICAL UTILITY) SHALL PROVIDE ALL ASSOCIATED OVERHEAD AND UNDERGROUND PRIMARY WIRING, PRIMARY TERMINATIONS, TRANSFORMERS, AND CONNECTIONS TO EXISTING OVERHEAD LINES.
4. PROVIDE UNDERGROUND ELECTRICAL WARNING TAPE 6" WIDE PLASTIC TAPE, COLORED RED WITH SUITABLE LEGEND DESCRIBING BURIED ELECTRICAL LINES FOR ALL UNDERGROUND CONDUITS. LOCATE 6 INCHES BELOW THE FINISHED GRADE.
5. REFER TO CIVIL DRAWINGS FOR EXCAVATION AND BACKFILL OF ALL UNDERGROUND WORK.
6. EXISTING UTILITY LOCATIONS ARE APPROXIMATE AND SHALL BE FIELD VERIFIED. CONTRACTORS SHALL CONTACT DIG SAFE BEFORE BEGINNING ANY EXCAVATIONS.
7. FINAL LOCATION OF UTILITIES MAY VARY FROM PLANS PENDING UTILITY COMPANY FIELD COORDINATION.
8. SEE THIS DRAWING FOR ADDITIONAL SITE DETAILS.
9. THE LOCAL TELEPHONE SERVICE PROVIDER AND THE CABLE TV COMPANY SHALL PROVIDE AND INSTALL ALL THE SITE UTILITY SERVICE CABLE TO NEW ELECTRICAL ROOM BACKBOARD IN THE CONDUITS PROVIDED AS PART OF THE SITE WORK.
10. OBTAIN THE SERVICES OF DIG SAFE TO CONFIRM LOCATIONS OF EXISTING UTILITIES.
11. UNDERGROUND CONDUIT SHALL BE SCHED 40 PVC. ABOVE GRADE CONDUIT SHALL BE RGS. ALL CONDUIT SWEEPS SHALL BE RGS LONG SWEEPS.
12. PROVIDE EXPANSION FITTINGS FOR ALL UNDERGROUND CONDUIT CONNECTED TO ABOVE GROUND STRUCTURES.

## GENERAL NOTES

1. NOT ALL SYMBOLS INDICATED IN THE LEGEND APPEAR ON THE DRAWINGS. COORDINATE WORK ACCORDINGLY. COMPLY WITH SPECIFICATIONS AND NOTES BELOW AS APPLICABLE.
2. ALL RECEPTACLES SHALL BE INSTALLED 18" AFF TO CENTERLINE OF BOX UNLESS NOTED OTHERWISE.
3. PROVIDE PANELBOARDS AS MANUFACTURED BY SQUARE D, GENERAL ELECTRIC, SIEMENS, CUTLER HAMMER OR APPROVED EQUAL.
4. ALL WIRING SHALL BE COPPER UNLESS DESIGNATED AS "AL". UNLESS OTHERWISE NOTED ALL WIRING SHALL BE #12 AWG. AND #12 EQUIPMENT GROUNDING CONDUCTOR. HOMERUNS FED FROM A 20A-1P, 120V CIRCUIT IN EXCESS OF 10' SHALL BE #10 AWG.
5. CONNECT BATTERY BACKED EMERGENCY AND EXIT LIGHTING TO NEAREST LIGHTING CIRCUIT AHEAD OF ANY SWITCHING. CONNECT REMOTE HEADS WITH #10 AWG COPPER CONDUCTORS. AC EXIT FIXTURES SHALL BE CONNECTED TO NEAREST EMERGENCY CIRCUIT OR AS INDICATED.
6. TEST ALL EMERGENCY LIGHTING UNITS FOR PROPER OPERATION OF LAMPS AND BATTERIES.
7. SEE MECHANICAL PLAN FOR HVAC UNITS, PUMPS AND FANS CONTROLLED BY THERMOSTATS (PROVIDED BY ATC CONTRACTOR).
8. FUSES AND OVERLOAD UNITS FOR MOTORS SHALL BE SIZED BASED ON ACTUAL MOTOR NAMEPLATE DATA AND IN ACCORDANCE WITH NEC. CIRCUIT BREAKERS FOR MOTORS ARE SUPPLIED AT MAX VALUE PER NEC (25 x FLA). SIZE IN THE FIELD IN ACCORDANCE WITH MFR. RECOMMENDATION.
9. ALL WORK SHALL COMPLY WITH NFPA70, NFPA72, NFPA101 & ALL FEDERAL, STATE & LOCAL REGULATIONS.
10. ALL PENETRATIONS THROUGH FLOORS, RATED WALLS AND PARTITIONS SHALL BE SEALED WITH UL APPROVED FIRE SEALANT MATERIAL TO MAINTAIN FIRE RATING FOR THE SEPARATION.
11. ALL ENCLOSURES, CONDUIT BODIES AND THEIR COVERS CONTAINING FIRE ALARM SYSTEM CONDUCTORS SHALL BE PAINTED RED.
12. AN EQUIPMENT GROUNDING CONDUCTOR SHALL BE INSTALLED WITH ALL FEEDERS AND BRANCH CIRCUITS. SIZE IN ACCORDANCE WITH NFPA 70 ARTICLE 250.
13. PROVIDE TWO BALLASTS FOR EACH FIXTURE INDICATED AS REQUIRING DUAL LEVEL SWITCHING. ONE BALLAST TO CONTROL OUTER LAMPS AND THE SECOND BALLAST TO CONTROL INNER LAMPS.
14. COORDINATE INSTALLATION OF VOICE/DATA OUTLETS WITH OWNER, MIS OR COMMUNICATIONS CONTRACTOR.
15. LOCATE DISCONNECTS AT EQUIPMENT AS REQUIRED BY MANUFACTURER. LOCATIONS ON DRAWINGS ARE APPROXIMATE.
16. OPERATE ALL FLUORESCENT AND METAL HALIDE LAMPS FROM INITIAL INSTALLATION FOR 100 HOURS AT FULL OUTPUT (NO DIMMING) TO SEASON LAMPS AND STABILIZE LAMP COLOR.
17. PROVIDE RISER OR PLENUM RATED CABLES ABOVE SUSPENDED CEILING.
18. THE CONTRACTOR SHALL SET ALL ELECTRONIC BREAKERS TO SPECIFIED TRIP SETTINGS BEFORE ENERGIZING EQUIPMENT.
19. PROVIDE EXPANSION FITTINGS FOR ALL UNDERGROUND RACEWAYS ENTERING ENCLOSURES ATTACHED TO FIXED STRUCTURES.
20. OUTDOOR RECEPTACLE COVERS SHALL COMPLY WITH NFPA 70 - ARTICLE 406.9.
21. ALL CONDUIT INSULATION FOR BUILDING WIRE SHALL BE THIN UNLESS NOTED OTHERWISE.
22. PROVIDE LABEL ON SERVICE EQUIPMENT INDICATING AVAILABLE SHORT CIRCUIT CURRENT ADD TO MASTER AND DATE. OBTAIN VALUES FROM ENGINEER.
23. PROVIDE ARC FAULT LABELS PER NFPA 70 - ARTICLE 110.
24. WHERE BUILDING REQUIRES TWO SERVICE ENTRANCES, PROVIDE SIGNS PER NFPA 70 - 230.
25. PROVIDE UL APPROVED BONDING CONNECTION FOR EXTERIOR CONDUCTORS FOR COMMUNICATIONS, LOW VOLTAGE AND POWER SYSTEMS.
26. PROVIDE LABELING AT SERVICE EQUIPMENT INDICATING THE LOCATION OF EMERGENCY/STANDBY GENERATORS.

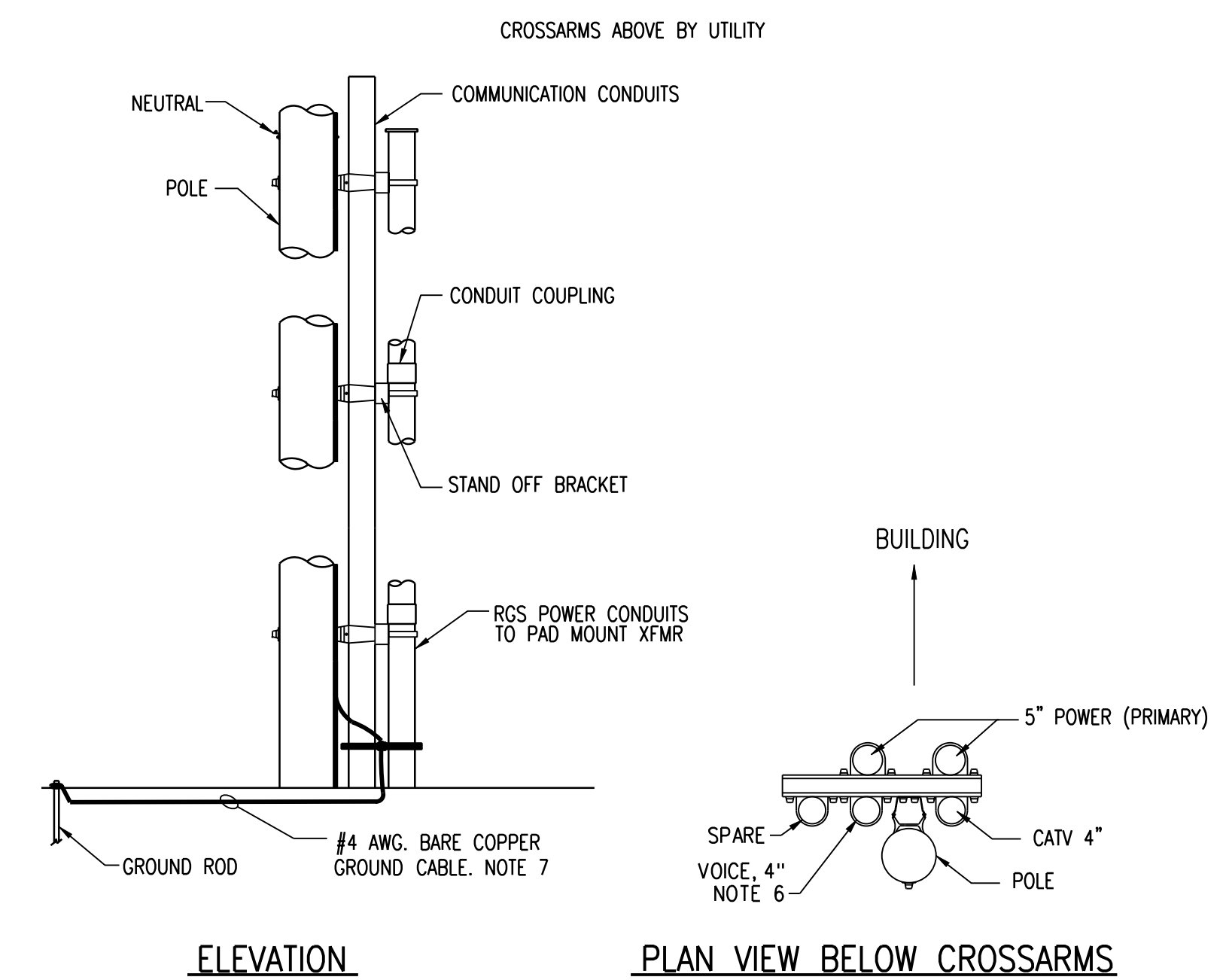


1 POLE BASE DETAIL  
SCALE: NONE



2 SECONDARY ELECTRICAL DUCT BANK SECTION  
SCALE: NONE

- NOTES:
1. USE RIGID STEEL GALVANIZED LONG SWEEPS AND RIGID STEEL GALVANIZED CONDUIT FROM DUCT BANKS INTO EQUIPMENT PADS.
  2. SITE LIGHTING CONDUIT 30" BELOW GRADE. CONCRETE ENCASED UNDER ROADWAYS. OTHER SITE CONDUITS SIMILAR BUT SMALLER TRENCH AND CONDUIT SIZES AS INDICATED.



3 RISER POLE P1 - BRACKET DETAIL  
SCALE: NONE

- NOTES:
1. PROVIDE STANDOFF BRACKETS AS INDICATED.
  2. CONDUIT SHALL BE RGS CONDUIT ONLY.
  3. TOP CONDUIT SECTIONS LONGER THAN 24" SHALL BE SUPPORTED.
  4. LOWEST BRACKET SHALL BE MINIMUM OF 8' ABOVE FINISHED GRADE.
  5. ONE BRACKET SHALL BE USED TO SUPPORT EACH 10' SECTION OF CONDUIT WITH THE BRACKET PLACED JUST BELOW THE RISER CONDUIT COUPLING.
  6. LOCATION FOR COMMUNICATION CONDUITS.
  7. GROUND RGS RISERS TO GROUND ROD, PIPE CLAMP AND EXTEND #4 AWG CONDUCTOR UP RISER POLE TO NEUTRAL BOND GUY WIRE TO SYSTEM NEUTRAL. PROVIDE A YELLOW PVC U GUARD FOR THE GROUND WIRE.

- UTILITY COORDINATION NOTES:
1. A TELEPHONE CABLE WILL BE INSTALLED TO THE MECHANICAL ROOM BY THE UTILITY (VERIZON). PROVIDE CONDUIT AS INDICATED ON DRAWINGS. VERIZON WILL TERMINATE PAIRS AT THE EQUIPMENT INSIDE THE MECHANICAL ROOM.
  2. A CATV CABLE SHALL BE INSTALLED TO THE MECHANICAL ROOM BY UTILITY. INSTALL TERMINATIONS FOR CATV HOMERUNS.
  3. COORDINATE INSTALLATION WITH ALL UTILITY REGULATIONS.

PROGRESS PRINT  
NOT FOR CONSTRUCTION

**BENNETT ENGINEERING**  
MECHANICAL - ELECTRICAL  
(207) 865-9475

**Gawron Turgeon ARCHITECTS**  
29 Black Point Road  
Scarborough, Maine 04074  
www.gawronturgeon.com  
207-883-6307 ext 207-883-0361 fax

**cPort CREDIT UNION**

REVISIONS		
#	DATE	DESCRIPTION
1	8/19/11	Revised 90% Review Set

DATE:	08.19.11
PROJECT #:	090609
DRAWN BY:	twg
CHECKED BY:	....
DRAWING SCALE:	AS NOTED

SHEET TITLE  
SITE ELECTRICAL DETAILS

E101

© COPYRIGHT 1985-2011  
REPRODUCTION OR RELEASE OF THIS DOCUMENT WITHOUT WRITTEN PERMISSION OF GAWRON TURGEON ARCHITECTS IS PROHIBITED.