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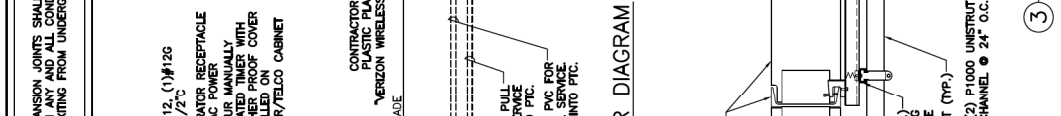
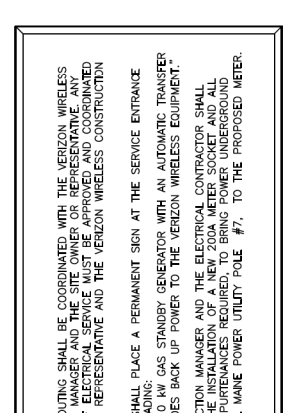
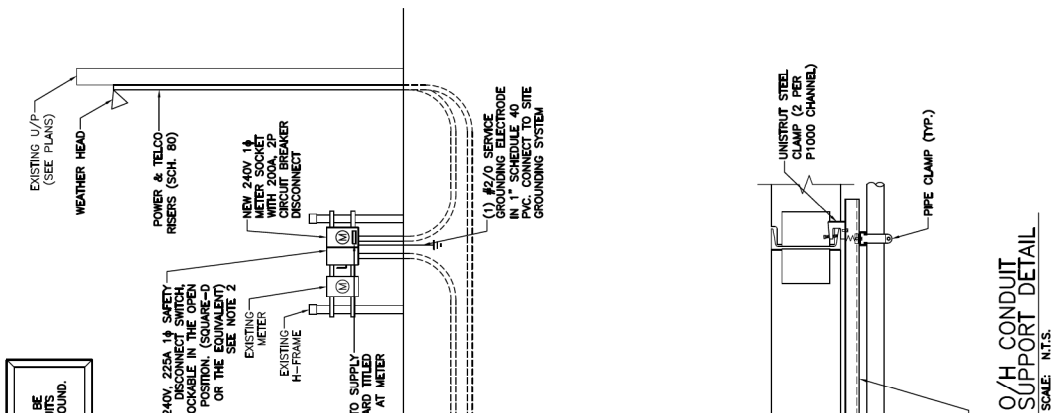
REV	DATE	DESCRIPTION	BY
A	08/28/15	FOR REVIEW	JM
B	03/09/16	REVISED EQUIPMENT	JM
C	07/25/16	REVISED PER SV	JM

SITE INFO:  
 SITE NAME: PORTLAND\_10\_1E  
 LOCATION CODE: 381332  
 SITE ADDRESS: 81 NORTHPORT DRIVE  
 PORTLAND, ME 04103  
 CUMBERLAND COUNTY

SHEET TITLE: ELECTRICAL NOTES & POWER RISER DIAGRAM

NEXIUS PROJ. NO: VZ11509  
 SHEET NUMBER: E-1

CHECKED BY: MS  
 DATE: 03/09/16



NOTE:  
 1. ALL POWER ROUTING SHALL BE COORDINATED WITH THE VERIZON WIRELESS CONSTRUCTION MANAGER AND THE SITE OWNER OR REPRESENTATIVE. ANY DISRUPTION OF ELECTRICAL SERVICE MUST BE APPROVED AND COORDINATED WITH THE SITE REPRESENTATIVE AND THE VERIZON WIRELESS CONSTRUCTION MANAGER.  
 2. CONTRACTOR SHALL PLACE A PERMANENT SIGN AT THE SERVICE ENTRANCE MARKING READING GAS STANDBY GENERATOR WITH AN AUTOMATIC TRANSFER SWITCH PROVIDES BACK UP POWER TO THE VERIZON WIRELESS EQUIPMENT.  
 3. VZW CONSTRUCTION MANAGER AND THE ELECTRICAL CONTRACTOR SHALL VERIFY THE ELECTRICAL PERFORMANCES REQUIRED TO BRING POWER UNDERGROUND FROM CENTRAL MAINE POWER UTILITY POLE #7, TO THE PROPOSED METER.

1. POWER RISER DIAGRAM  
 SCALE: N.T.S.

2. CONDUIT STUB-UP DETAIL  
 SCALE: N.T.S.

3. O/H CONDUIT SUPPORT DETAIL  
 SCALE: N.T.S.

ABBREVIATIONS

A	AIRPBLE
I.C.	INTERLUPTING CURRENT
A.T.S.	AUTOMATIC TRANSFER SWITCH
C	CONDUIT
RGS.	RIGID GALVANIZED STEEL
KWH	KILOWATT HOUR
P	POLE
CHLORIDE	AVAILABLE SHORT CIRCUIT CURRENT
SCA	TINNED BARE COPPER WIRE
TEGW	THERMOPLASTIC HIGH HEAT RESISTANT NYLON-COATED THIN WALL
THW	THERMOPLASTIC HEAT & WATER RESISTANT NYLON-COATED THICK WALL
U.O.N.	UNLESS OTHERWISE NOTED
W	WIRE

- UPON DRILLING HOLES INTO CONCRETE, WHETHER FOR FASTENING OR ANCHORING THE PLUGS FOR EXPANSION JOINTS THROUGH RUNS, ETC. IT MUST BE CLEARLY UNDERSTOOD THAT TENDONS AND REBAR WILL NOT BE DRILLED INTO, CUT, OR DAMAGED UNDER ANY CIRCUMSTANCES.
- 2" RGS GEN POWER  
3" RGS TELCO CONDUIT  
CANOPY  
FLOOD LIGHT (TYP. OF 2)  
CONDUIT EXPANSION JOINTS SHALL BE INSTALLED ON ANY AND ALL CONDUITS ENTERING OR EXITING FROM UNDERGROUND.
- UTILITY SERVICES SHOWN ARE PROPOSED. THE ELECTRICAL CONTRACTOR SHALL COORDINATE EXACT TELEPHONE AND CABLE ROUTING AND ASSOCIATED REQUIREMENTS WITH LOCAL UTILITY COMPANIES.
- UNDER THE SITE AND EXAMINE CONDITIONS PERFORMED. REPORT ADVERSE CONDITIONS IN WRITING. COMMENCEMENT COMPLETE ACCEPTANCE OF EXISTING CONDITIONS INCLUDING PREPARATORY WORK DONE BY OTHERS.
- CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS, INSURANCE, EQUIPMENT INSTALLATION, CONSTRUCTION TOOLS, AND PROPERLY OPERATING SYSTEM, LETE ENERGIZED THROUGHOUT AND AS INDICATED ON DRAWINGS, AS SPECIFIED HEREIN AND/OR AS OTHERWISE REQUIRED.
- ALL MATERIALS AND EQUIPMENT SHALL BE INSTALLED AND IN PERFECT CONDITION WHEN NEW AND IN PERFECT CONDITION WHEN THROUGHOUT FOR EACH GLASS OR GROUP OF EQUIPMENT. ALL CONDUITORS SHALL BE COPPER. ALL WIRING DEVICES AND CONDUITS SHALL BE LISTED AND SHALL BEAR THE INSPECTION LABEL "I" WHERE SUBJECT TO SUCH APPROVAL. MATERIALS SHALL MEET WITH APPROVAL OF THE ALL GOVERNING BODIES HAVING JURISDICTION. MATERIALS SHALL BE MANUFACTURED IN ACCORDANCE WITH APPLICABLE STANDARDS ESTABLISHED BY ANSI, NEMA, AND NIBU.
- ALL CONDUIT INSTALLED SHALL BE SURFACE MOUNTED UNLESS OTHERWISE SPECIFIED. ALL CONDUITS SHALL BE PROVIDED WITH BONDING BUSINGS. THE ENTIRE SYSTEM SHALL BE SOLIDLY GROUNDED USING COMPRESSION-TYPE GROUND FITTINGS OR CONDUIT AND CONDUIT-TYPE AND SET SCREW-TYPE. CRIMP-TYPE FITTINGS ARE NOT ALLOWED.
- CONTRACTOR SHALL CARRY OUT THE WORK IN ACCORDANCE WITH ALL GOVERNING STATE, COUNTY, LOCAL CODES, AND BY O.S.H.A. THE ENTIRE ELECTRICAL SYSTEM SHALL BE MANUFACTURED AS REQUIRED BY ALL APPLICABLE CODES AND SHALL COMPLY WITH THE LATEST EDITION OF THE NATIONAL ELECTRIC CODE.
- ELECTRICAL CONTRACTOR SHALL OBTAIN PERMITS, FILE PLANS, OBTAIN ELECTRICAL NOTICES AND LICENSES, PAY REQUIRED FEES, AND OBTAIN NECESSARY APPROVALS FROM AUTHORITIES THAT HAVE JURISDICTION.
- THE CONTRACTOR IS TO COORDINATE WITH THE ELECTRICAL CONTRACTOR AND THE TEMPORARY AND PERMANENT POWER TO THE SITE. THE TEMPORARY POWER AND ALL HOOD-UP COSTS SHALL BE PAID BY THE CONTRACTOR.
- THE ELECTRICAL CONTRACTOR SHALL COORDINATE ALL CONDUIT ROUTING WITH THE ELECTRICAL CONTRACTOR AND THE TEMPORARY AND PERMANENT POWER TO THE SITE. THE TEMPORARY POWER AND ALL HOOD-UP COSTS SHALL BE PAID BY THE CONTRACTOR.
- LOCATION OF TENDONS AND RE-BARS ARE NOT DEFINITELY KNOWN AND THEREFORE MUST BE SEARCHED FOR BY APPROPRIATE METHODS AND EQUIPMENT VIA X-RAY, OR OTHER MEANS. CONTRACTOR SHALL LOCATE THE REINFORCING STEEL TENDONS.
- UPON DRILLING HOLES INTO CONCRETE, WHETHER FOR FASTENING OR ANCHORING THE PLUGS FOR EXPANSION JOINTS THROUGH RUNS, ETC. IT MUST BE CLEARLY UNDERSTOOD THAT TENDONS AND REBAR WILL NOT BE DRILLED INTO, CUT, OR DAMAGED UNDER ANY CIRCUMSTANCES.
- PENETRATIONS IN FIRE RATED WALLS SHALL BE FIRE STOPPED IN ACCORDANCE WITH U.L. RATED MATERIALS.
- PROVIDE "FIRE FLANGE" RATED PENETRATIONS FOR PIPES AND CONDUITS THROUGH FIRE RATED WALLS. USE FIRE STOP CAULK AS REQUIRED WITH 3M BRAND FIRE BARRIER CALK OR APPROVED EQUAL.
- ALL WALL PENETRATIONS FOR TELCO, POWER, AND GROUNDING SHALL REQUIRE RIGID STEEL SLEEVES. ALL EXTERIOR WEALED PENETRATIONS SHALL BE SILICONE SEALED.
- PATCH, REPAIR, AND PAINT ANY AREA THAT HAS BEEN DAMAGED IN THE COURSE OF THE ELECTRICAL WORK.
- ALL EXISTING UNDERGROUND LINES ON SITE SHALL BE LOCATED PRIOR TO CONSTRUCTION.
- ALL EMPTY CONDUITS SHALL HAVE A PULL WIRE OR ROPE INSTALLATION.
- ALL CIRCUIT BREAKERS, FUSES, AND AN INTERRUPTING RATING NOT LESS THAN THE MAXIMUM SHORT CIRCUIT CURRENT TO WHICH THEY MAY BE SUBJECTED AND A MINIMUM OF 10,000 AIC.
- MATERIAL AND EQUIPMENT SHALL BE UL, NEMA, ANSI, IEEE, ADA AND CEM LISTED AND SHALL MEET REQUIREMENTS OF NATIONAL AND STATE ELECTRICAL CODES.
- ALL WIRING SHALL BE TYPE THIN RATED 75°C, 600V, WET OR DRY LOCATIONS. MINIMUM BRANCH CIRCUIT WIRING SHALL BE #12 AWG SOLID COPPER.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH THE LOCAL TELEPHONE COMPANY AS MAY BE REQUIRED FOR THE INSTALLATION OF THE TELEPHONE SERVICE TO THE PROPOSED SITE.
- BEFORE WORKING ON THE WORK AREA, THE CONTRACTOR SHALL VERIFY THE WORK IS IN A COMPLETED AND UNDAUNTED CONDITION.
- PROVIDE THE OWNER WITH ONE SET OF COMPLETE ELECTRICAL "AS BUILT" DRAWINGS AT THE COMPLETION OF THE JOB, SHOWING ACTUAL DIMENSIONS AND PROJECTS. PROVIDE WORKING DRAFTS OF PROJECT COMPLETION.
- ALL BROCHURES, OPERATING MANUALS, CATALOGS, SHOP DRAWINGS, ETC. FOR MATERIALS AND EQUIPMENT SHALL BE TURNED OVER TO PROJECT MANAGER AT JOB COMPLETION.
- COMPLETE JOB SHALL BE GUARANTEED FOR A PERIOD OF NO LESS THAN ONE YEAR AFTER THE DATE OF JOB COMPLETION. MATERIAL OR EQUIPMENT FOUND TO BE FAULTY DURING THAT PERIOD SHALL BE CORRECTED AT ONCE UPON WRITTEN NOTIFICATION AT THE EXPENSE OF THE CONTRACTOR.
- UPON COMPLETION OF WORK, CONDUIT CONTINUING THROUGH THE WALL MUST BE PROTECTED WITH A RIGID STEEL PLUG WITH WRITTEN REPORT SUBMITTED TO THE PROJECT MANAGER FOR REVIEW AND APPROVAL.
- CONTRACTOR SHALL CONTACT OIG #84 (1-888-303-SAFE) PRIOR TO COMMENCEMENT OF WORK.
- INDICATES BY NOTICE OF COMPLETION; SIGNED OFF BY CONSTRUCTION ENGINEER, INCLUDES DATES ON ALL WARRANTY FORMS.