

November 29th, 2020

ADDENDUM NO. 2

PROJECT: CITY OF DURHAM SOLID WASTE MANAGEMENT SCALE HOUSE & BREAKROOM
DURHAM, NC

FROM: DTW ARCHITECTS & PLANNERS, LTD.
229 NORTH GREGSON STREET
DURHAM, NC 27701
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TO: PRIME BIDDERS

This addendum containing the following additions, clarifications, and/or changes, is issued prior to receipt of bids and does hereby become part of the original Contract Documents dated October 23rd, 2020 and supersedes the original documents in case of conflict. Acknowledge receipt of this Addendum in the space provided on the Bid Form. Failure to do so will result in the disqualification of the corresponding bid.

This addendum consists of:

- 01 Sheet Electrical Changes description (8.5x11)
- 01 Sheet Electrical Changes drawing (24x36)

- I. Electrical Changes
 - a. See attached 24x36 revised drawing (E1.1) showing light pole relocation and added circuit for backflow preventer.

All other specifications, drawings, terms and conditions remain as required in the Contract Documents issued October 23rd, 2020.

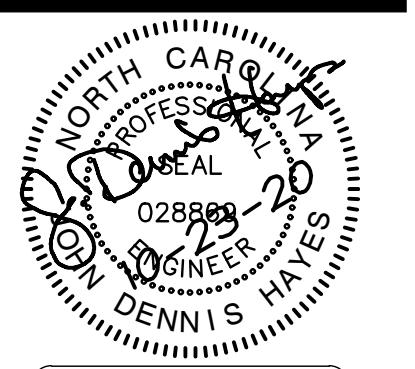
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Electrical Plan

CITY of DURHAM
SOLID WASTE
MANAGEMENT
SCALE HOUSE
& BREAKROOM

1900 EAST CLUB BLVD
DURHAM, NC

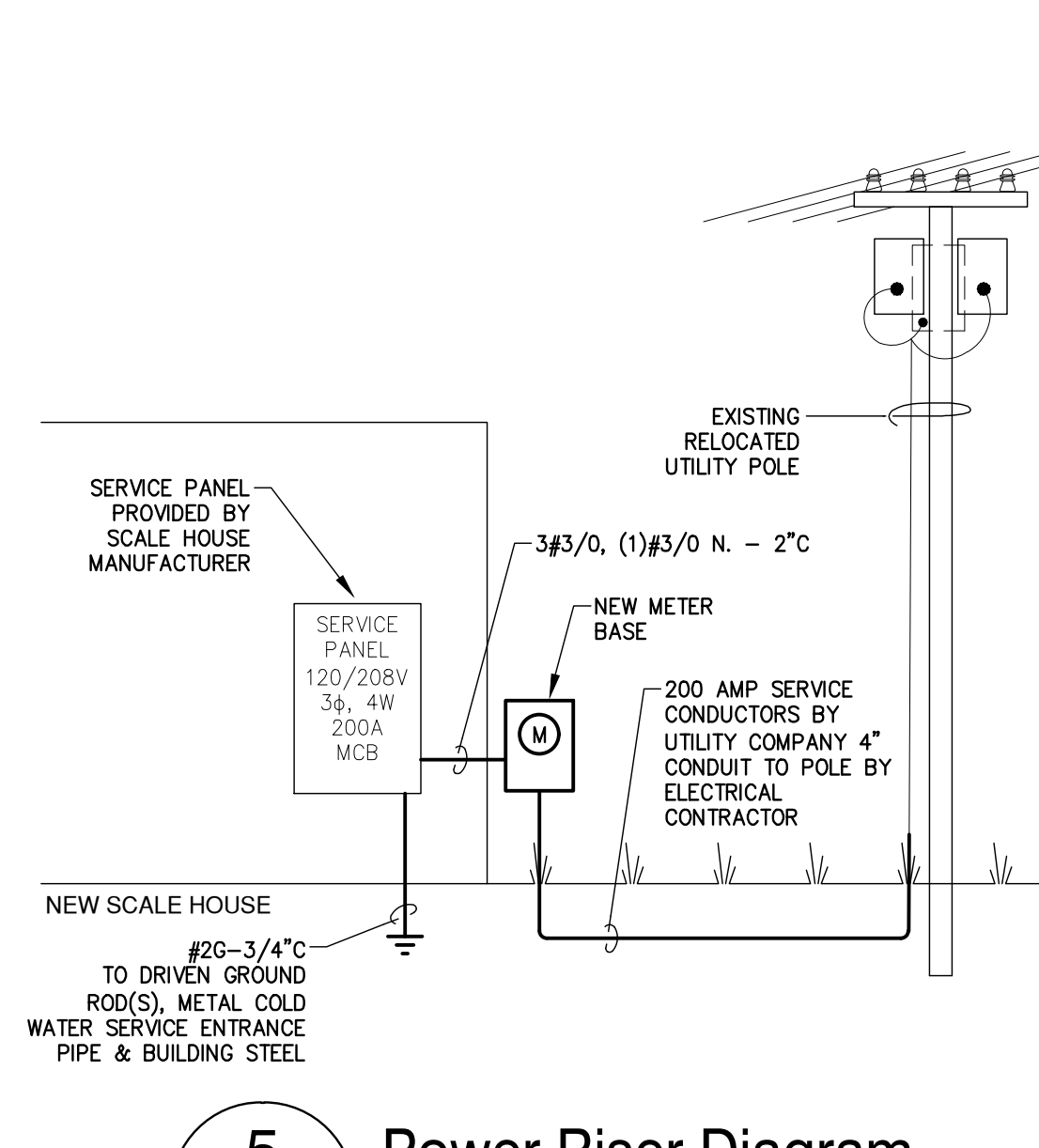
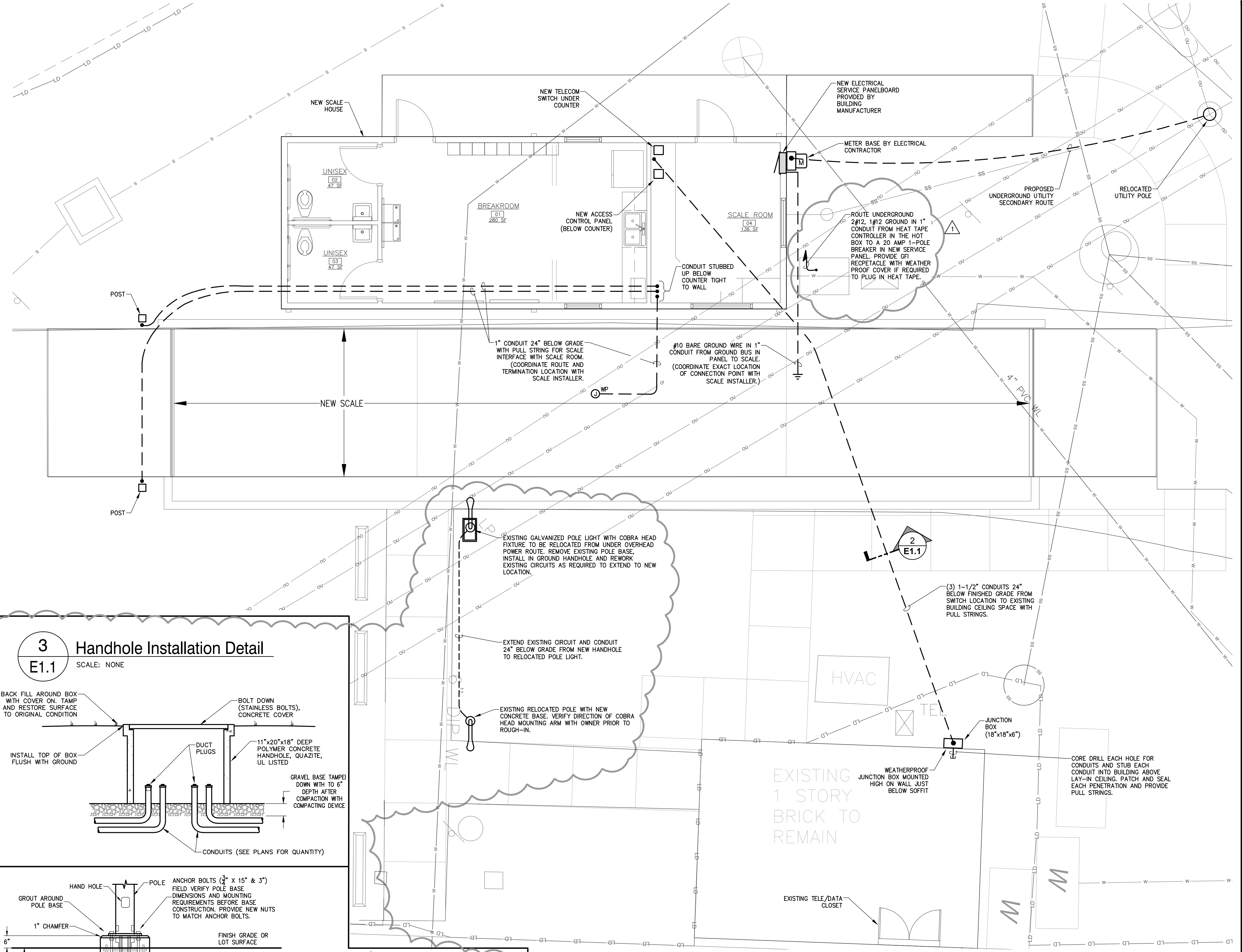
PROJECT NUMBER
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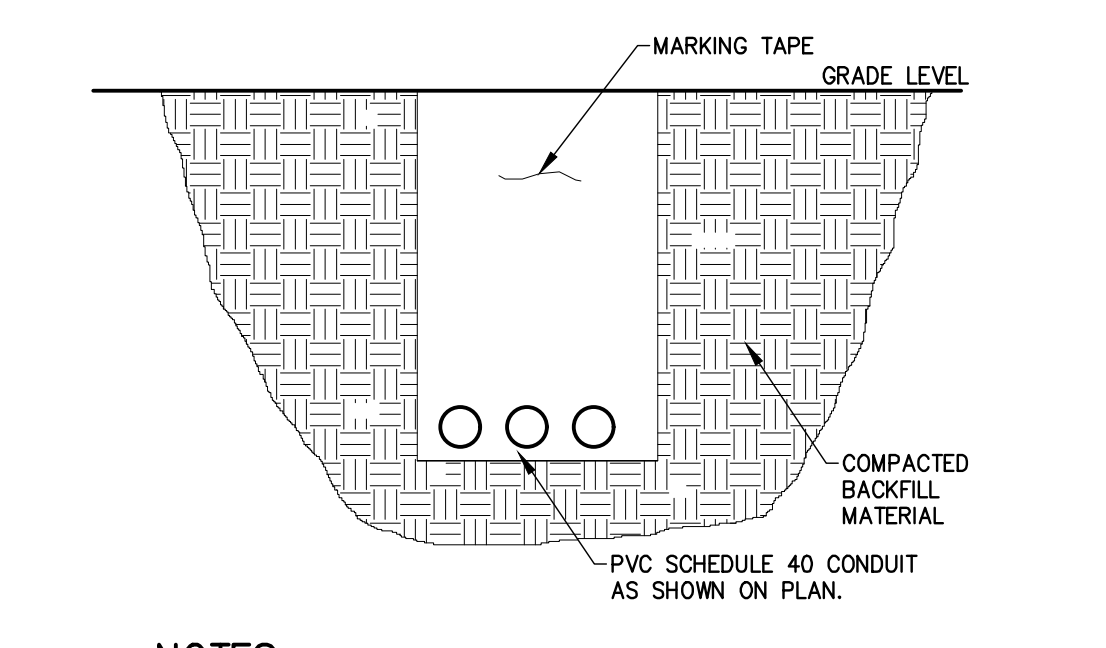
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BID & PERMIT DOCUMENTS
Revisions
11/25/20 ADDENDUM
Drawn KFF
Checked JDH
Date October 23, 2020
Sheet E1.1
Of

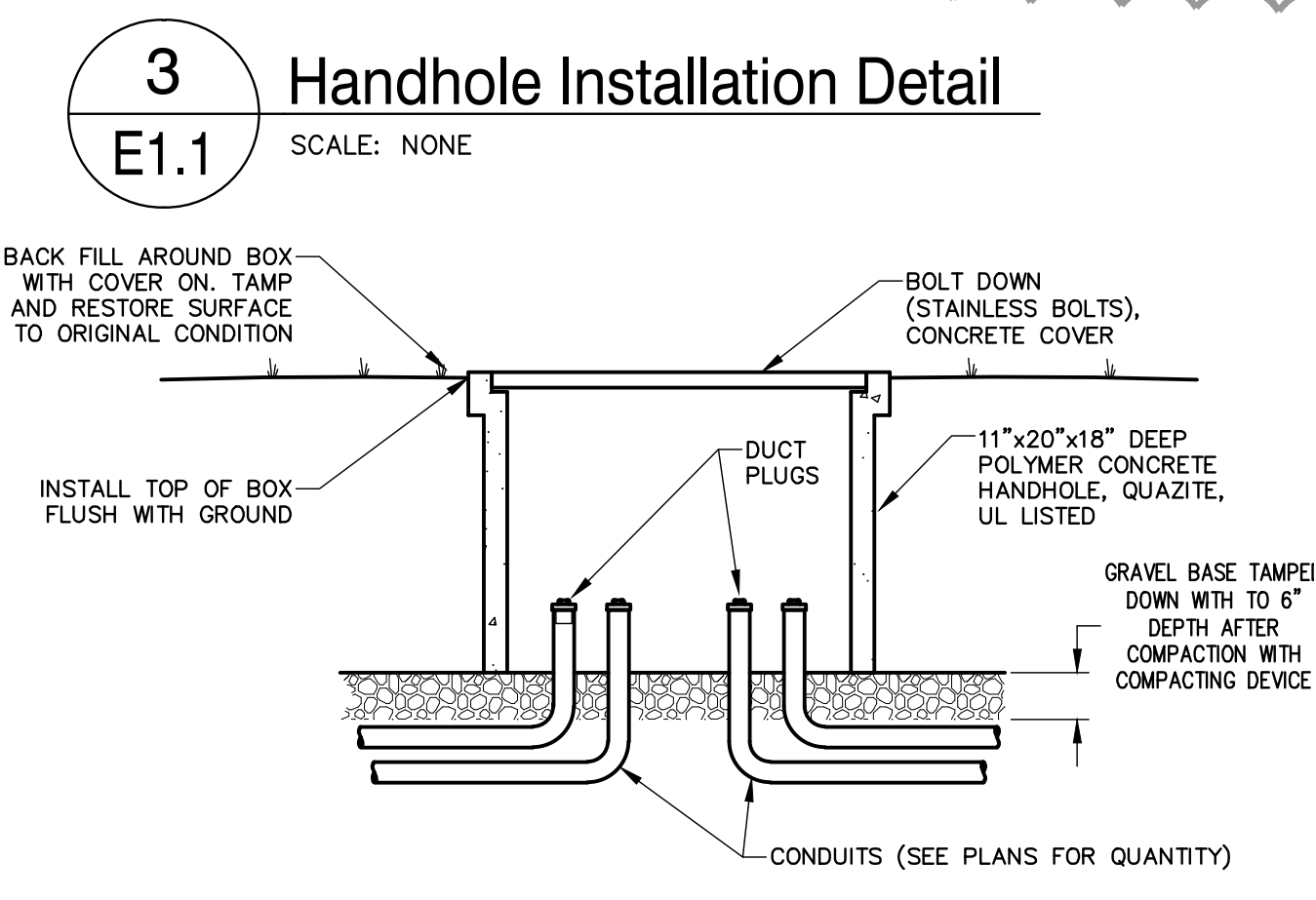


5 Power Riser Diagram
E1.1 SCALE: NONE



4 Trench Detail
E1.1 SCALE: NONE

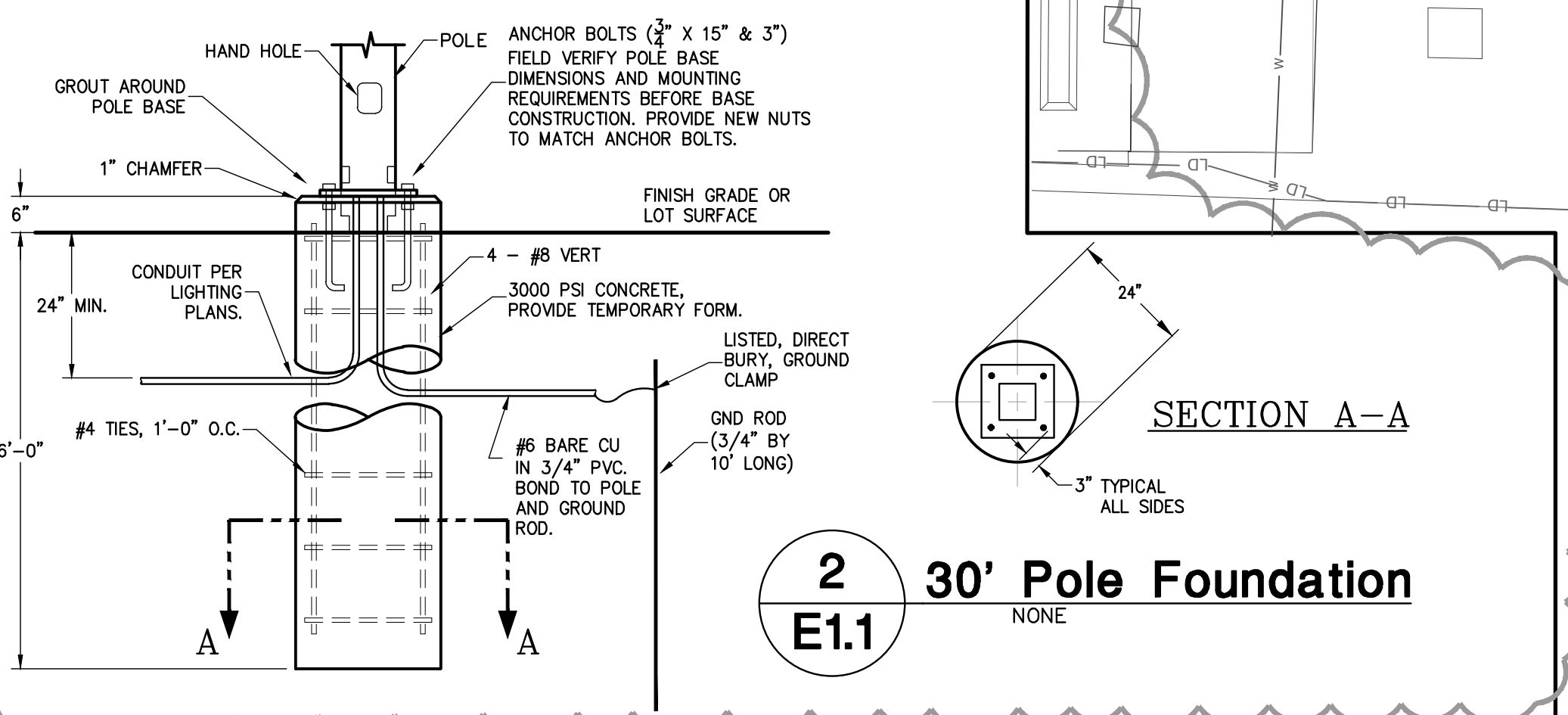
- NOTES:**
1. PROVIDE A NEW TRENCH FOR CONDUITS AS SHOWN IN PLAN. PROVIDE 24 INCHES (MINIMUM) OF COVER.
 2. BACKFILL AND COMPACT THE TRENCH WITH THE REMOVED MATERIAL.
 3. PROVIDE MARKING TAPE 8-12" BELOW GRADE LEVEL TO WARN OF THE ELECTRIC POWER OR COMMUNICATIONS UTILITIES BELOW AS APPLICABLE.



3 Handhole Installation Detail
E1.1 SCALE: NONE

ELECTRICAL SPECIFICATIONS

- 1.0 GENERAL:
 - 1.1 PROVIDE ALL WORK, EQUIPMENT, SERVICES, LABOR, AND MATERIALS FOR THE CONSTRUCTION OF NEW ELECTRICAL SYSTEMS AS DESCRIBED OR IMPLIED BY THE CONTRACT DOCUMENTS.
 - 1.2 THE DRAWINGS ARE DIAGRAMMATIC AND ARE NOT INTENDED TO INCLUDE EVERY DETAIL OF CONSTRUCTION, MATERIALS, AND EQUIPMENT. TAKE ACTUAL FIELD MEASUREMENTS AT THE JOB SITE IN LIEU OF SCALING THE DRAWINGS.
 - 1.3 REVIEW THE CONTRACT DOCUMENTS OF ALL TRADES AND COORDINATE ALL WORK WITH THE OTHER TRADES AS NECESSARY TO AVOID CONFLICTS AND INTERFERENCES.
 - 1.4 ALL WORK AND MATERIALS SHALL COMPLY WITH APPLICABLE STATE, LOCAL, AND NATIONAL CODES (INCLUDING OSHA), COMPLIANCE WITH THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE AND THESE SPECIFICATIONS SHALL BE THE MINIMUM STANDARD OF ACCEPTANCE.
 - 1.5 OBTAIN AND PAY FOR ANY AND ALL REQUIRED PERMITS.
 - 1.6 PROVIDE ONLY NEW MATERIALS AND EQUIPMENT LISTED AND LABELED (FOR THE USE INTENDED) BY AN APPROVED THIRD PARTY LABORATORY SERVICE SUCH AS UNDERWRITER'S LABORATORIES, INC.
- 2.0 CONDUITS:
 - 2.1 ALL INTERIOR CONDUIT INSTALLED ABOVE GROUND SHALL BE ZINC-COATED EMT WITH COMPRESSION CONNECTORS. ALL EXTERIOR CONDUIT INSTALLED ABOVE GRADE SHALL BE GALVANIZED RIGID STEEL (GRS).
 - 2.2 ALL CONDUIT INSTALLED UNDERGROUND SHALL BE SCHEDULE 40 PVC OR INSIDE DUCTBANK AS DETAIL. ELBOWS AND STUB-UPS WHERE TRANSITIONING TO ABOVE GRADE SHALL BE GRS.
 - 2.3 SEAL ALL CONDUIT PENETRATIONS THROUGH EXTERIOR WALLS OR FLOORS (SEAL TIGHT). SEAL CONDUIT INTERIORS TO BE AIR TIGHT USING A REMOVABLE SEALANT.
- 3.0 WIRING:
 - 3.1 CONDUCTORS SHALL BE COPPER, THHN/THWN, SOLID FOR #10 AWG OR #12 AWG, AND STRANDED FOR ALL LARGER SIZES. ALL CONDUCTORS SHALL BE COLOR-CODED.
 - 3.2 ALL CONDUCTORS AND CABLES SHALL BE INSTALLED IN CONDUITS AND TESTED FOR CONTINUITY AND GROUND BEFORE BEING ENERGIZED.
- 4.0 ELECTRICAL IDENTIFICATION:
 - 4.1 EQUIPMENT IDENTIFICATION LABELS SHALL BE ENGRAVED PLASTIC LAMINATE. INSTALL ON EACH UNIT OF EQUIPMENT, INCLUDING CENTRAL OR MASTER UNIT OF EACH SYSTEM. THIS INCLUDES POWER, LIGHTING, COMMUNICATION, SIGNAL, AND ALARM SYSTEMS, UNLESS UNITS ARE SPECIFIED WITH THEIR OWN SELF-EXPLANATORY IDENTIFICATION. UNLESS OTHERWISE INDICATED, PROVIDE A SINGLE LINE OF TEXT WITH 1/2-INCH- HIGH LETTERING ON 1-1/2-INCH- HIGH LABEL; WHERE TWO LINES OF TEXT ARE REQUIRED, USE LABELS 2 INCHES HIGH. USE WHITE LETTERING ON BLACK FIELD. APPLY LABELS USING MECHANICAL FASTENERS.
 - 4.2 CIRCUIT IDENTIFICATION LABELS SHALL BE INSTALLED ON BOXES. INSTALL LABELS EXTERNALLY USING PRESSURE-SENSITIVE, SELF-ADHESIVE LABELS. LABEL SHALL LIST PANEL AND CIRCUIT NUMBER OR EQUIVALENT.



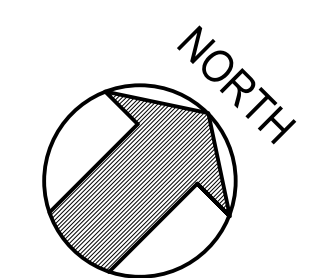
2 30' Pole Foundation
E1.1 SCALE: NONE

1 Electrical Plan
E1.1 SCALE: 1/4" = 1'-0"

PRELIMINARY NEC SERVICE CALCULATION

LOAD DESCRIPTION	ACTUAL KVA	DEMAND FACTOR	DEMAND KVA
LIGHTING	3.5 VA/SF	2.01	2.52
RECEPTACLES	12.80	1.25	16.00
FIRST 10KVA	10.00	1.00	10.00
REMAINDER	2.60	0.50	1.30
HVAC	15.00	1.00	15.00
WATER HEATER	1.50	1.00	1.50
MISCELLANEOUS (TELECOM, SECURITY, FA)	3.00	1.00	3.00
LARGEST MOTOR	12.00	0.25	3.00
TOTAL SERVICE LOAD (KVA)			36.32 KVA
TOTAL SERVICE LOAD (AMPS)			101 AMPS
SERVICE EQUIPMENT*	208Y / 120		200 AMPS

* PANEL BY MODULAR BUILDING MANUFACTURER



P:\PROJECTS\2020\20-122 DURHAM CO SOLID WASTE SCALE HOUSE\3-D ELECTRICAL\E1.1.DWG PLOTTED: 11/25/2020 11:12 AM BY: BRUCE NEWMAN