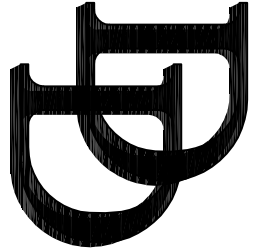


DESIGNED BY:	XXX
DRAWN BY:	XXX
CHECKED BY:	XXX
APPROVED BY:	XXX

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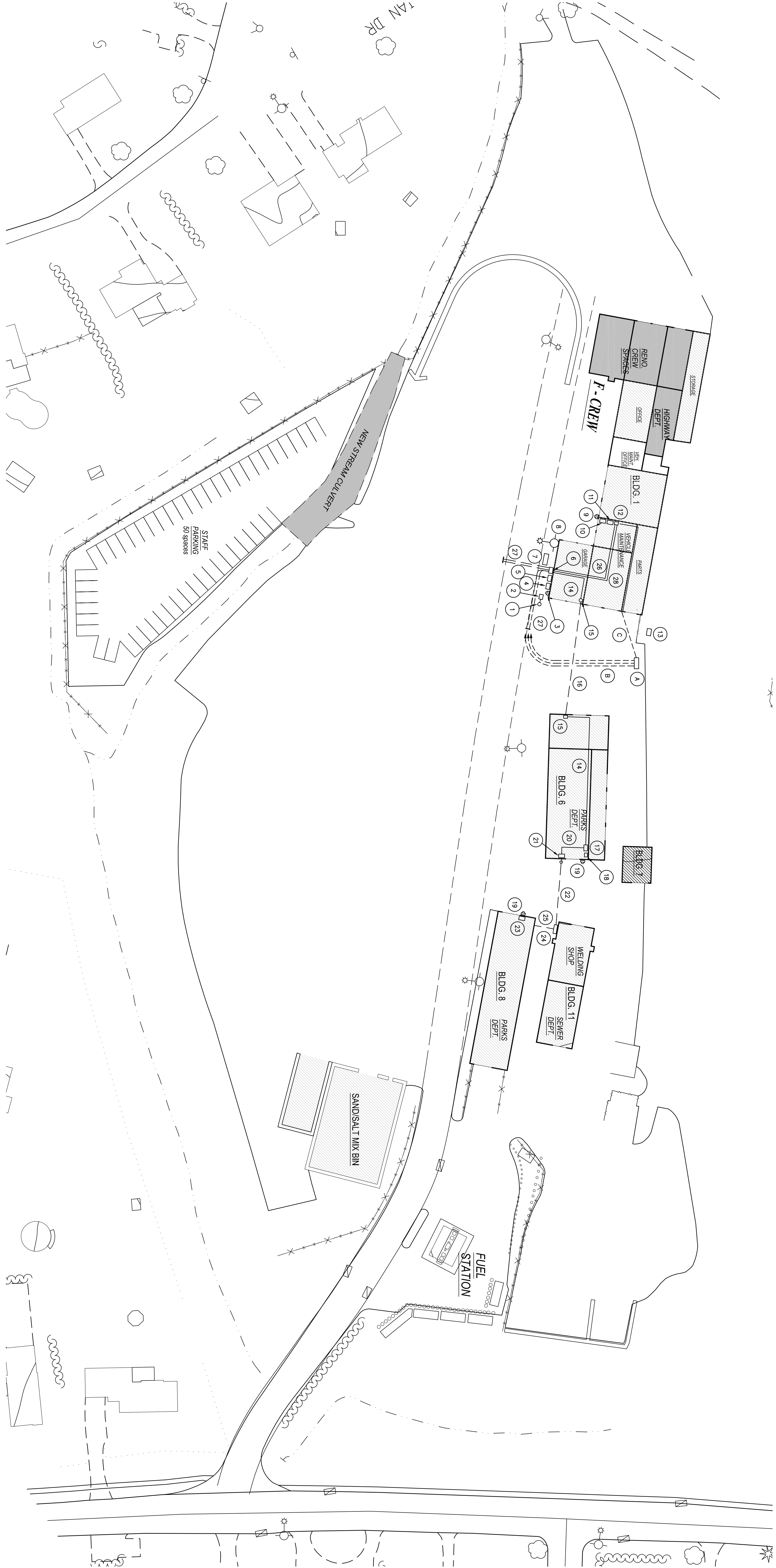
**DEPARTMENT
ELECTRICAL
SITE PLAN**

366 CHURCH HILL ROAD
TRUMBULL, CT 06611

JOB NO.: 5165-00
CADD NO.: X724
FILE NO.:

**IMPLEMENTATION
PHASE 2**

SCALE: DRAWING NO.:
DATE: **SE1**
January 14, 2015



1 ELECTRICAL SITE PLAN

SCALE: 1"=40'-0"

LEGEND

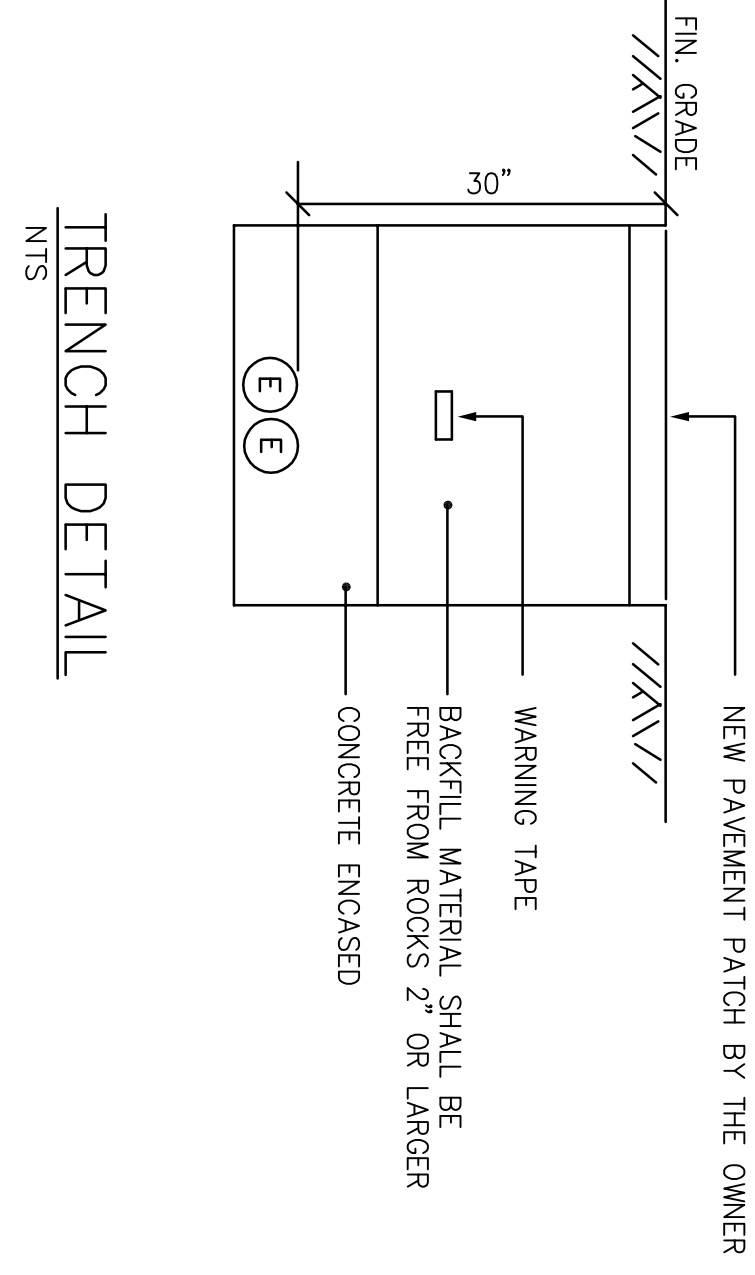
- 1 NEW RISER POLE BY THE POWER COMPANY, 4"X6", PRIMARY RISER BY THE ELECTRICAL CONTRACTOR COORDINATE THE HEIGHT WITH THE POLE COMPANY
- 2 NEW PAD MOUNTED TRANSFORMER BY THE POWER COMPANY, PRECAST CONCRETE PAD, GROUNDING GRID AND BOLLARDS BY THE ELECTRICAL CONTRACTOR AS PER THE POWER COMPANY REQUIREMENTS.
- 3 NEW METER SOCKET
- 4 NEW MAIN ENTRANCE & C.T. SWITCH - NEMA 3R
- 5 NEW AUTOMATIC TRANSFER SWITCH - NEMA 3R
- 6 NEW PANEL, MDP - NEMA 3R
- 7 NEW STANDBY GENERATOR
- 8 EXISTING SERVICE RISER POLE
- 9 EXISTING METER SOCKET, RACEWAY AND WIRING TO BE REMOVED
- 10 EXISTING ENTRANCE & C.T. SWITCH - 400A-3P @ 120/208V-3-4W TO BE REMOVED
- 11 EXISTING MANUAL TRANSFER SWITCH TO BE REMOVED
- 12 EXISTING PANEL, MDP-400 AMP TO REMAIN, PROVIDE NEW 1-20A-1P AND 1-20A-2P/C/B FOR THE BATTERY CHARGER AND BLOCK HEATER
- 13 EXISTING 30KW GENERATOR TO BE REMOVED BY OWNER
- 14 NEW 3" C. WITH 4#400MCM-THHN PLUS 1#4 THHN GROUND
- 15 NEW PULL BOX AT EXISTING 3" PVC-RACEWAY
- 16 EXISTING 3" PVC-UNDERGROUND WITH NEW 4#400MCM-THHN PLUS 1#4 THHN GROUND
- 17 NEW PANEL, MDP-6
- 18 EXISTING PANEL, BLDG #6 TO BE REPLACED

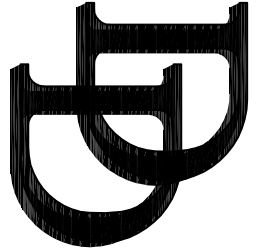
ADD ALTERNATE

- A ALTERNATE LOCATION FOR NEW STANDBY GENERATOR
- B SEE ITEMS #14 AND 16 ON DRAWING E1, ENCASE THESE RACEWAYS IN CONCRETE
- C SEE ITEM #15 ON DRAWING E1, ENCASE THIS RACEWAY IN CONCRETE

NOTE

1. TRENCHING, BACKFILLING AND PATCHING OF PAVEMENT BY THE OWNER





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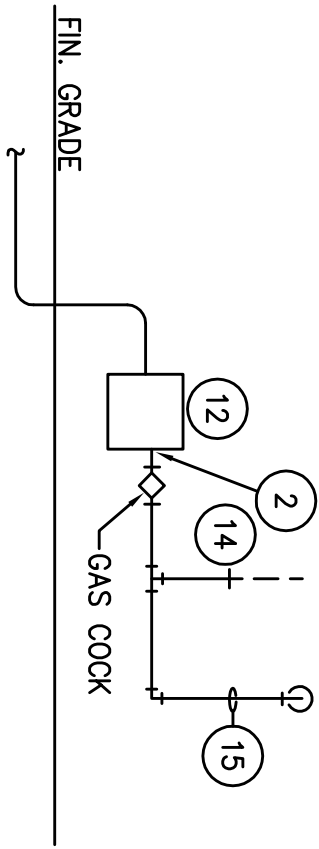
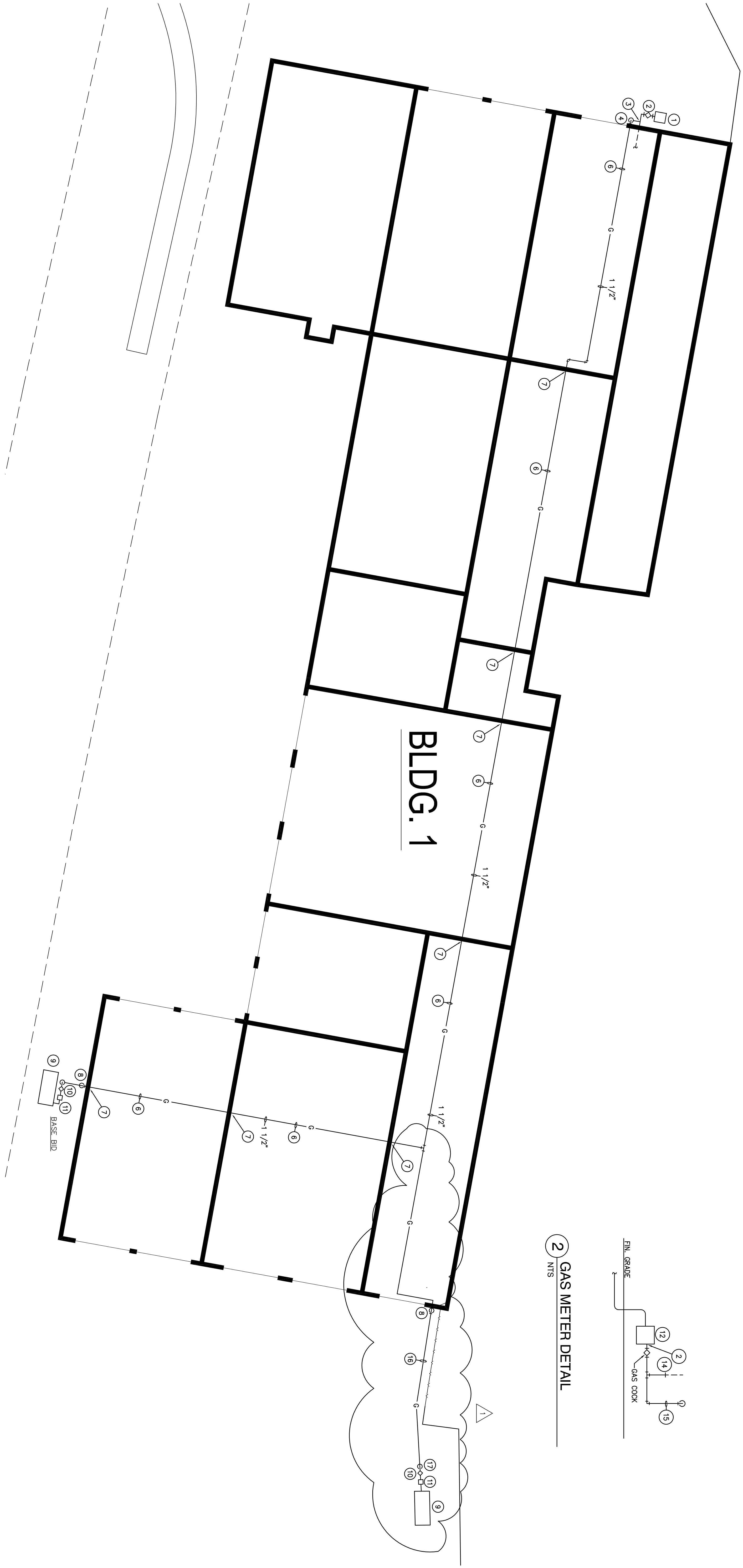
**GAS PIPING
SITE PLAN**

366 CHURCH HILL ROAD
TRUMBULL, CT 06611

JOB NO.: 51855.00
CADD NO.: X72-1
FILE NO.:

**IMPLEMENTATION
PHASE 2**

SCALE: AS NOTED
DATE: January 14, 2015
DRAWING NO.: **SM1**



1 GAS PIPING SITE PLAN

SCALE: 1"=10'-0"

LEGEND

- EXISTING GAS METER TO BE REPLACED WITH NEW METER BY GAS COMPANY
- PLUMBERS WORK TO START AT DISCHARGE OF METER AND GAS COOK
- CONNECT NEW GAS PIPE TO EXISTING
- NEW 1 1/2" (SLBS) GAS PIPE UP ON BUILDING
- RUN THROUGH EXISTING WALL (SEAL WEATHERTIGHT)
- RUN HIGH AS POSSIBLE
- RUN THROUGH EXISTING WALL PROVIDE PROPER CAULKING
- RUN NEW 1 1/2" GAS PIPE DOWN ON BUILDING WALL
- GAS GENERATOR (2.2 MILLION BTU/H) NOT BY PLUMBER
- GAS COOK
- GAS REGULATOR (SLBS TO 10" W.C.)
- GAS COMPANY TO PROVIDE NEW GAS METER @ SLBS PRESSURE
- PLUMBERS TO WORK TO START AT DISCHARGE OF METER
- CONNECT NEW GAS PIPE TO EXISTING (SAME SIZE)
- NEW 1 1/2" GAS PIPE RUN UP BUILDING (SEE FLOOR PLAN)
- NEW 1 1/2" GAS PIPE TO RUN BELOW GRADE, PIPE TO BE EQUAL TO TRACPIPE PS-11
- RISE UP FROM BELOW GRADE

ADD ALTERNATE

PLUMBING SPECIFICATIONS

- SCOPE OF WORK
 - The work to be done under this Division of the specifications shall include the furnishing of all equipment, supplies, supervision, and all materials not specifically mentioned, ready for use, all plumbing systems, equipment and associated items.
 - Run new gas piping from new gas meter to new gas generator as indicated.
 - Connect to existing gas pipe as indicated.
 - Run high pressure gas pipe through building as indicated.
 - Pressure regulator as required.
 - Make final connection to generator.
 - Cutting and patching of existing partitions.
 - The removal and replacement of ceiling tiles.
 - GAS
 - Gas piping shall be black iron with malleable fittings or Tracpipe flexible gas pipe for above and below grade as indicated.
 - EXAMINATION OF SITE
 - The Contractor shall be assumed to have visited the premises and noted all pertinent facts and details including the conditions under which the work must be carried out. No allowance will be made for failure to have done so.
 - Each bidder shall thoroughly familiarize himself with the requirements and intent of all drawings of all Divisions of the specifications so as to include all of the heating, ventilating and plumbing work intended.
 - INSURANCE
 - This Contractor shall be fully insured, including Workmen's Compensation, Public Liability for injury and property damage. Proof of such insurance shall be submitted to the Owner before signing the contract to proceed with the work.
 - CODES
 - All work shall comply with the requirements of the National Board of Fire Underwriters, the National Plumbing Code, the Building Department, Fire Department, local utilities and all local and state codes which apply, and the Fire Insurance Rating Organization.
- PERMITS
 - This Contractor shall obtain and pay for all permits required for this work.
 - GUARANTEE
 - All equipment, materials and workmanship shall be guaranteed for a period of one year from date of acceptance, by Owner, of the entire installation.

PHASE A	-	BLACK
PHASE B	-	RED
PHASE C	-	BLUE

GROUND	GREEN
Any use or reuse of original or altered CAD CONTRACTOR, or other parties without his review and written approval of an authorized representative of the CONTRACTOR, at the sole risk of CLIENT, CONTRACTOR, or CONTRACTOR, or other party agrees to defend, indemnify, and hold D&B/C&A & D&A, damages, losses, expenses, and attorney's fees, and costs of the investigation or review of these materials.	

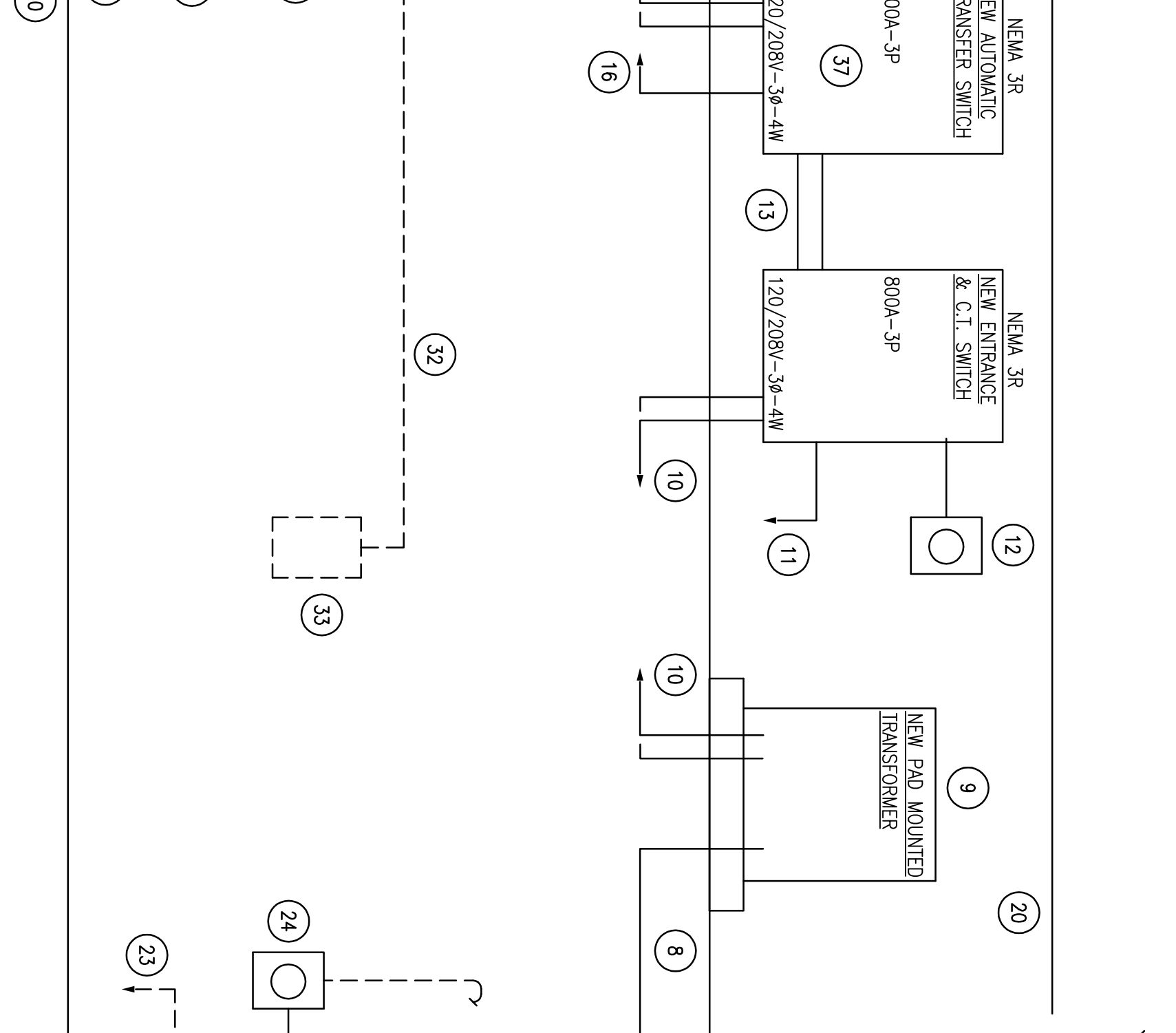
- E. EQUIPMENT
 AL. BUSS
 ID BUSS
 MONITORING JUMPER
 BUILDING STEEL
 AROUND ROSS

WORK

DIAGRAM

TRUMBULL, CT 0

PHASE 2



NTS

1

1. THE ELECTRICAL CONTRACTOR SHALL FURNISH ALL LABOR, MATERIALS, AND SERVICE REQUIRED TO COMPLETE THE INSTALLATION OF ALL WORK CALLED FOR AND SHOWN.
2. ALL WORK SHALL COMPLY WITH THE LATEST EDITION OF THE NATIONAL CODE, OSHA ALL STATE, LOCAL CODES, ORDINANCES AND REQUIREMENTS AND WITH ALL AUTHORITIES HAVING JURISDICTION.
3. ALL PERMITS FOR THE ELECTRICAL WORK SHALL BE OBTAINED AND PAID FOR BY THE ELECTRICAL CONTRACTOR. UPON COMPLETION, A CERTIFICATION OF FINAL APPROVAL SHALL BE SUBMITTED, SIGNED BY THE PROPER AUTHORITIES.
4. ALL MATERIALS SHALL BE NEW OF FIRST QUALITY AND SHALL CONFORM TO U.L. STANDARDS WHERE SUCH IS APPLICABLE. ONLY THE BEST WORKMANSHIP IN ACCORDANCE WITH PRESENT DAY STANDARDS WILL BE ACCEPTABLE. ANY WORK INSTALLED IN WHICH THE WORKMANSHIP DOES NOT MEET THE BEST OF THE INDUSTRY ACCEPTED STANDARDS SHALL BE TAKEN OUT AND REPLACED WITH PROPERLY DONE WORK AT THIS CONTRACTOR'S EXPENSE.
5. MINIMUM SIZE OF ANY CIRCUIT SHALL BE #12 THIN AL. GAUGE-3/4"C.
6. REEVEAYS AT EVERY OUTLET MUST TERMINATE IN SUITABLE OUTLET BOXES OF APPROVED FORM AND DIMENSIONS, ADAPTED IN ALL INSTANCES TO LOCATION AND USE OR NUMBER OF WIRES TERMINATING THEREIN.
7. ALL EQUIPMENT CONNECTIONS ARE SHOWN IN THEIR APPROXIMATE LOCATIONS. THE CONTRACTOR SHALL VERIFY EXACT LOCATION OF ALL CONNECTIONS.
8. THE GENERATOR WITH BATTERY TANK, BATTERY CHARGER, BLOCK HEATER AND AUTOMATIC TRANSFER SWITCH WILL BE FURNISHED BY THE OWNER, RECEIVED, REATED AND INSTALLED BY THE ELECTRICAL CONTRACTOR.
9. COORDINATE ANY DISRUPTION OF POWER WITH THE OWNER.
0. CALL BEFORE YOU DIG - 811
1. TRENCHING AND BACKFILLING BY THE ELECTRICAL CONTRACTOR.
2. SUPPORT ALL EQUIPMENT AS PER CODES AND SEISMIC REQUIREMENTS.
3. ALL EXPOSED WIRING MUST BE INSTALLED IN CONDUIT.
4. FIRE STOP ALL WALL AND FLOOR OPENINGS MADE FOR ELECTRICAL WORK.
5. ALL EQUIPMENT MATERIAL AND WORKMANSHIP SHALL BE GUARANTEED FOR A PERIOD OF ONE(1) YEAR FROM THE DATE OF ACCEPTANCE BY OWNER OF THE ENTIRE INSTALLATION.
6. BEFORE SUBMITTING PROPOSAL, EXAMINE ALL PLANS RELATING TO THIS WORK, VERIFY ALL GOVERNING CONDITIONS AT THE SITE, BECOME FULLY INFORMED AS TO THE EXTENT AND CHARACTER OF THE WORK REQUIRED.

1. THE ELECTRICAL CONTRACTOR SHALL FURNISH ALL L

-
- The diagram illustrates a building's grounding system. On the right, a vertical line represents the 'METAL RACEWAY'. This connects to a box labeled 'SERVICE EQUIPMENT'. Inside this box, there is a 'NEUTRAL BUSS' and a 'GROUND BUSS'. A 'MAIN BONDING JUMPER' connects the neutral buss to the ground buss. A 'GROUNDING BISHING' (likely a bonding bushing) is shown at the top of the service equipment. A 'BONDING JUMPER' connects the grounding bushing to the 'CONTINUOUS GROUNDING ELECTRODE CONDUCTOR'. This conductor runs horizontally and then turns down to a 'WATER MAIN' (represented by a circle with a cross). Another 'BONDING JUMPER' connects the water main to the continuous conductor. The continuous conductor then runs horizontally to the left, where it is connected to 'SUPPLEMENTARY GROUND RODS' via an 'EXOTHERMIC WELD'. A 'BUILDING' is shown at the bottom right, with a 'ZETA GROUNDING' system connected to the supplementary ground rods.
- Labels in the diagram include:
- METAL RACEWAY
 - GROUNDING BISHING
 - BONDING JUMPER
 - MAIN BONDING JUMPER
 - GROUND BUSS
 - CONTINUOUS GROUNDING ELECTRODE CONDUCTOR
 - BONDING JUMPER
 - WATER MAIN
 - EXOTHERMIC WELD
 - SUPPLEMENTARY GROUND RODS
 - BUILDING
 - ZETA GROUNDING
 - SERVICE EQUIPMENT
 - NEUTRAL BUSS

NOTES

1. GROUND CLAMPS SHALL BE U.L. LISTED FOR APPLICATION AND USE.
2. GROUNDING CLAMPS SHALL BE COPPER OR BRONZE TYPE.
3. GROUNDING AND BONDING CONDUCTORS SHALL COMPLY WITH N.E.C. 250 AND LOCAL CODES.
4. HORIZONTAL CLAY ALU. GROUNDING AND BONDING SURFACES TO INSURE A POSITIVE GROUNDING CONNECTION.
5. WATER PIPING USED AS GROUNDING ELECTRODE SYSTEM SHALL BE CONNECTED WITHIN FIVE FEET OF PIPE ENTERING POINT PER N.E.C. 250.

