

PROJECT 2250 - 4 LOGAN PLACE, NORWALK, CT

COMMUNITY DEVELOPMENT BLOCK GRANT DISASTER RECOVERY PROGRAM

OWNER OCCUPIED REHABILITATION AND REBUILDING

CONNECTICUT DEPARTMENT OF HOUSING HARTFORD, CONNECTICUT 06118

GENERAL NOTES:

1. WHERE REFERENCED IN THIS PLAN SET, MARTINEZ COUCH & ASSOCIATES, LLC SHALL HEREIN BE REFERRED TO AS "MCA."
2. THE CONTRACTOR SHALL ABIDE BY ALL OSHA, FEDERAL, STATE, AND LOCAL REGULATIONS.
3. THE CONTRACTOR SHALL POST ALL BONDS, PAY ALL FEES, PROVIDE PROOF OF INSURANCE, AND PROVIDE TRAFFIC CONTROL NECESSARY FOR THIS WORK.
4. THE CONTRACTOR SHALL VERIFY ALL SITE CONDITIONS IN THE FIELD AND CONTACT MCA IF THERE ARE ANY QUESTIONS OR CONFLICTS REGARDING THE CONSTRUCTION DOCUMENTS AND/OR FIELD CONDITIONS, SO THAT APPROPRIATE REVISIONS CAN BE MADE PRIOR TO BIDDING. ANY CONFLICT BETWEEN THE DRAWINGS AND SPECIFICATIONS SHALL BE CONFIRMED WITH MCA PRIOR TO BIDDING.
5. REFER TO OTHER PLANS, DETAILS, AND PROJECT MANUAL FOR ADDITIONAL INFORMATION.

DRAWING INDEX

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STREET VIEW
(N.T.S.)

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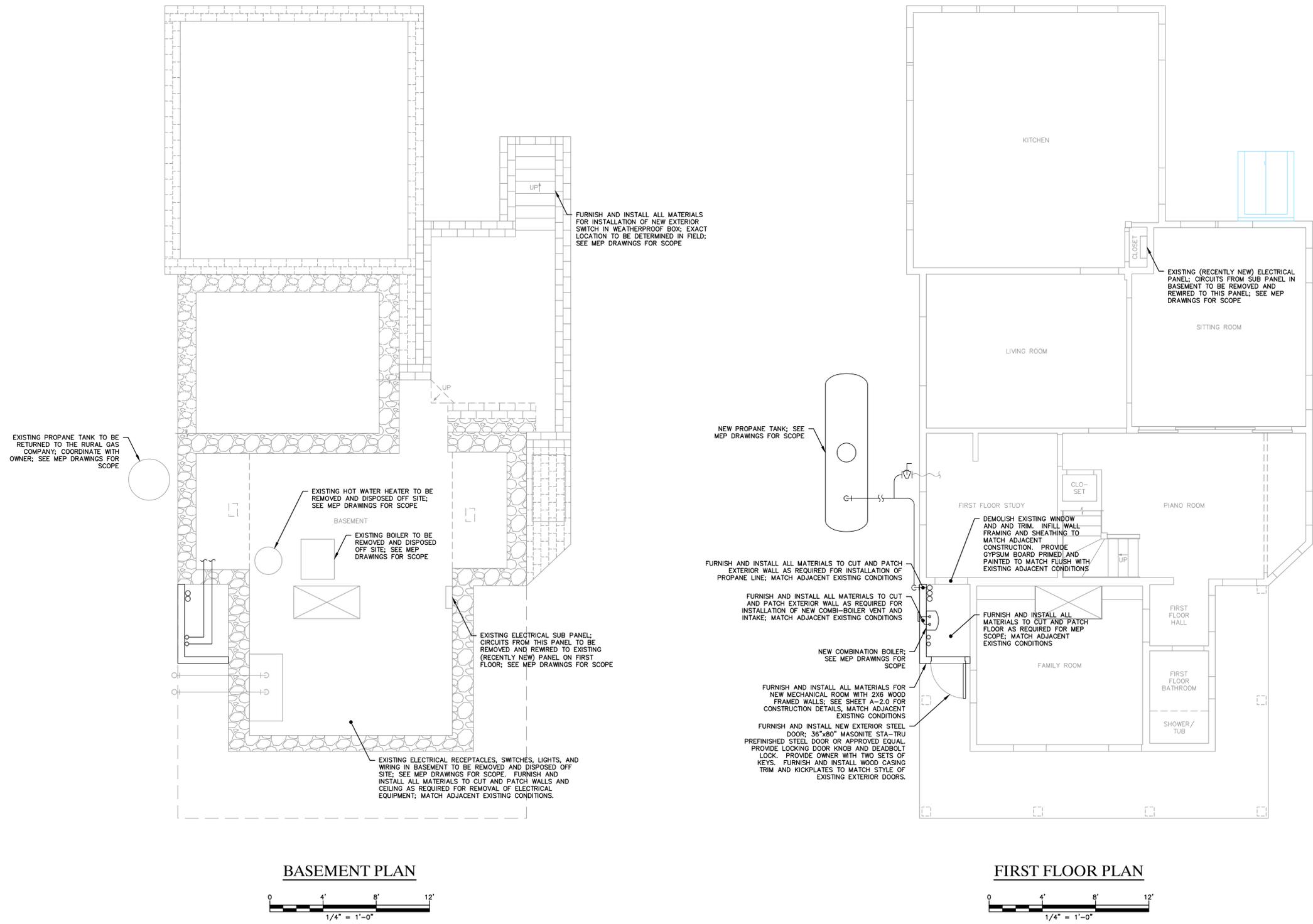
PROJECT 2250
 4 LOGAN PLACE
 NORWALK, CONNECTICUT 068

**ISSUED FOR BID
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| NO. | DATE | REVISIONS | BY | CHK | APPV |
| 2 | 3/29/2016 | ISSUED FOR BIDDING | MBR | MBR | REC |
| 1 | 3/23/2016 | ISSUED FOR CT DOH REVIEW AND APPROVAL | MBR | MBR | REC |
| DRAWN: KNL | | CHECKED: MBR | APPROVED: REC | SCALE: N.T.S. | DATE: 2016/02/03 |

TITLE SHEET

| | | |
|-------------|----------------------------|-------|
| JOB NO. | DRAWING NUMBER | SHEET |
| 33-262-2250 | BASEMAP 33-262-2250.dwg | T-0.0 |



BASEMENT PLAN

0 4' 8' 12'

1/4" = 1'-0"

FIRST FLOOR PLAN

0 4' 8' 12'

1/4" = 1'-0"

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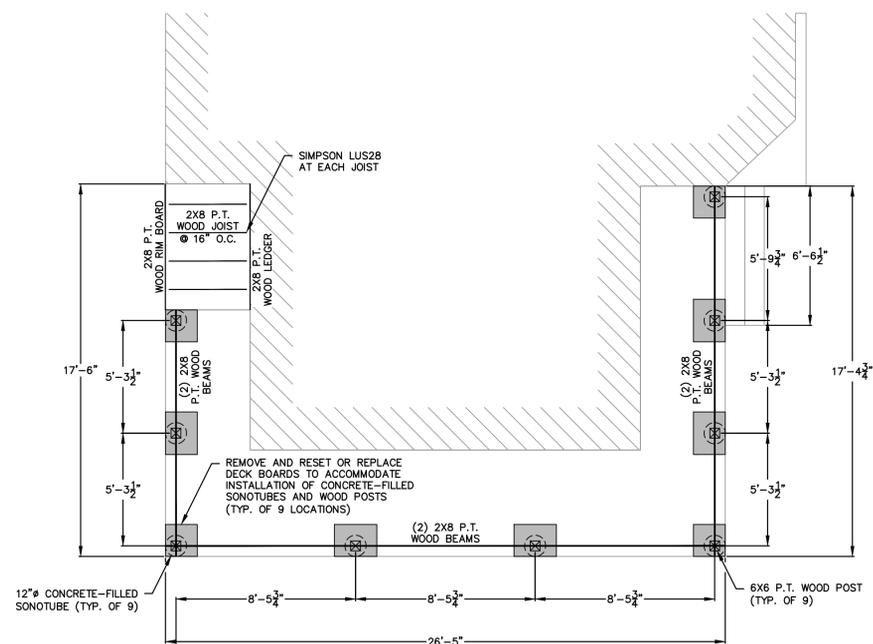
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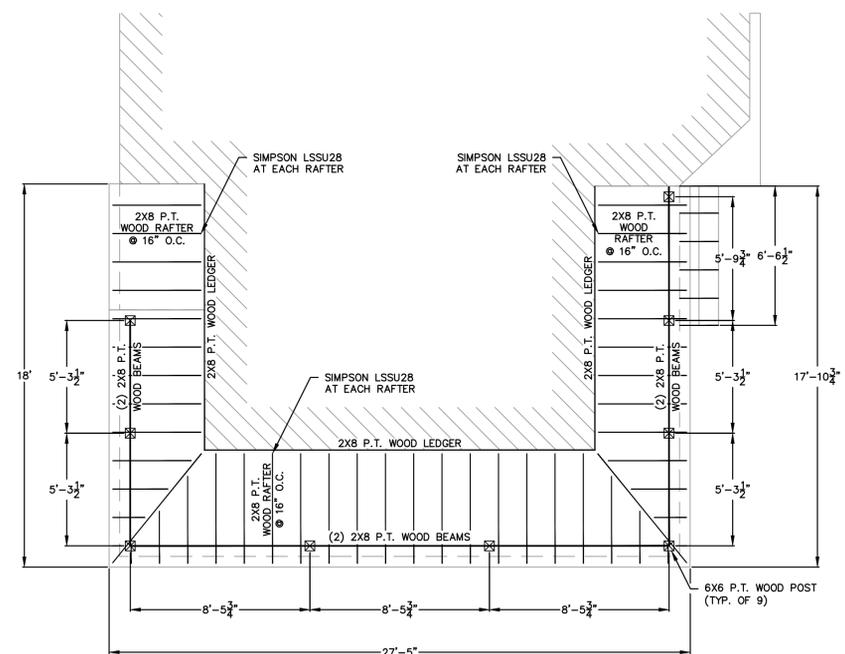
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ARCHITECTURAL PLANS

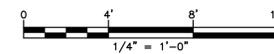
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| 33-262-2250 | BASEMAP 33-262-2250.dwg | A-1.0 |



PROPOSED FLOOR FRAMING



PROPOSED ROOF FRAMING



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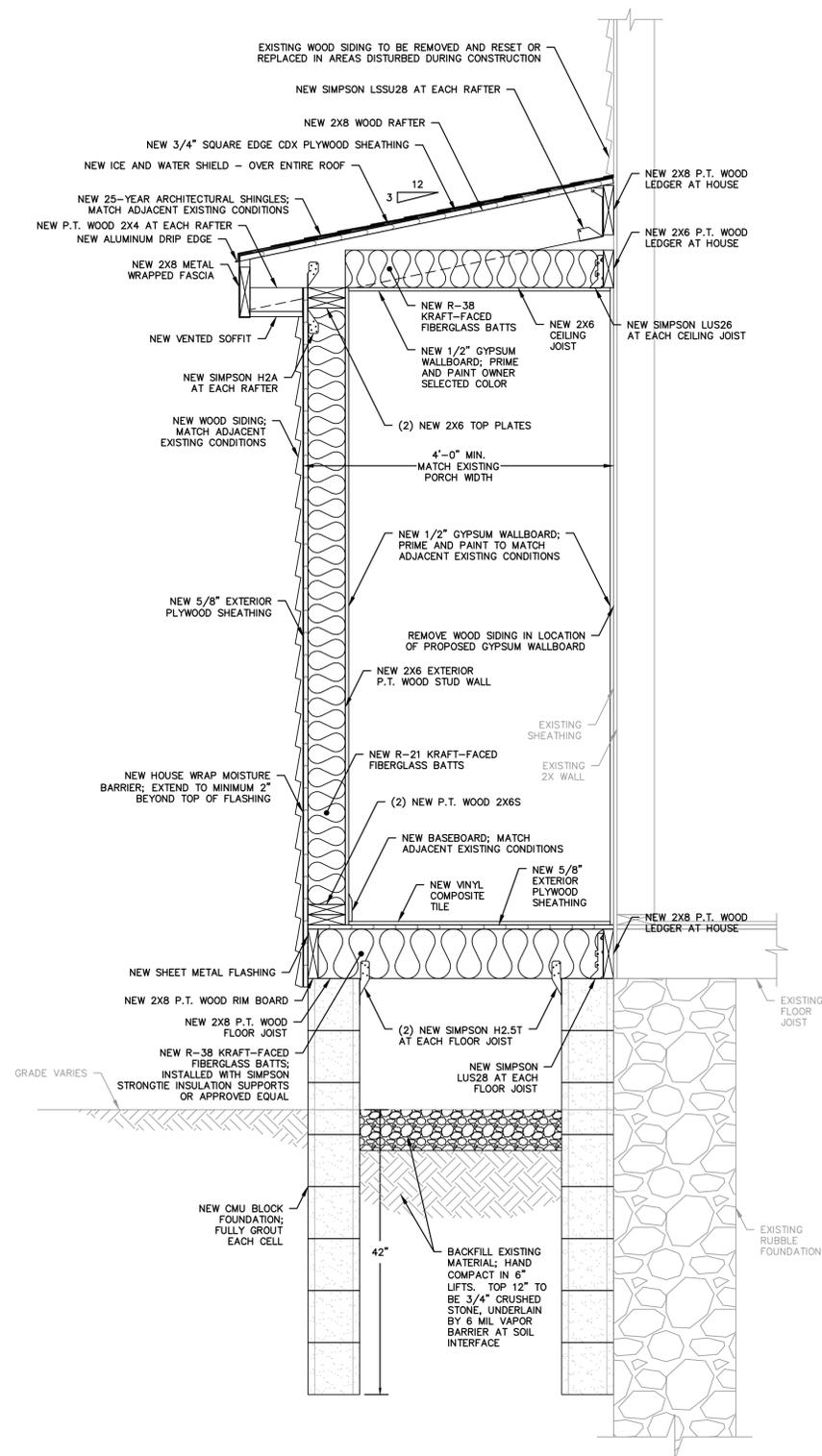
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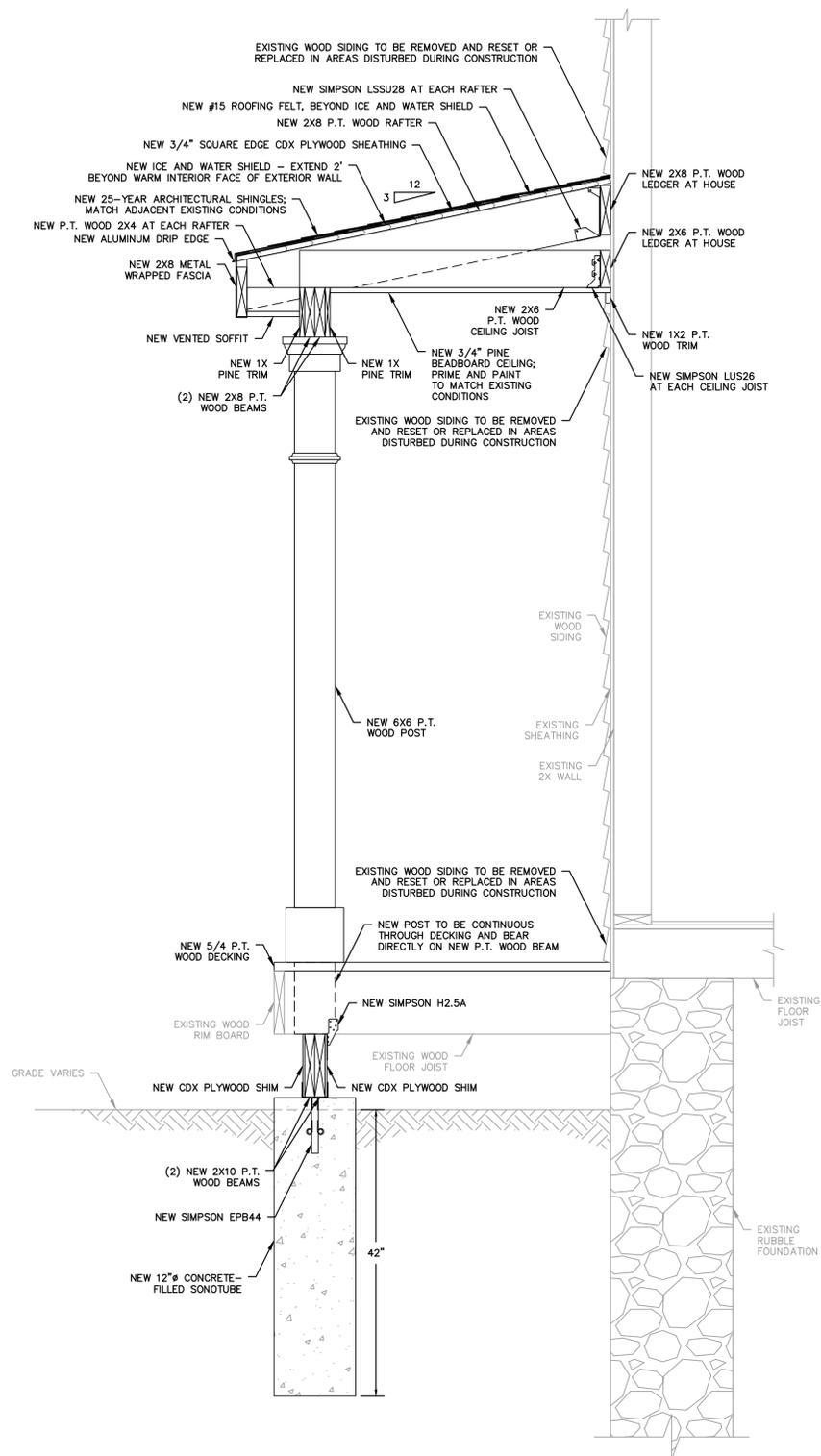
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FRAMING PLANS

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PROPOSED UTILITY ROOM SECTION



PROPOSED PORCH SECTION



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ARCHITECTURAL SECTIONS

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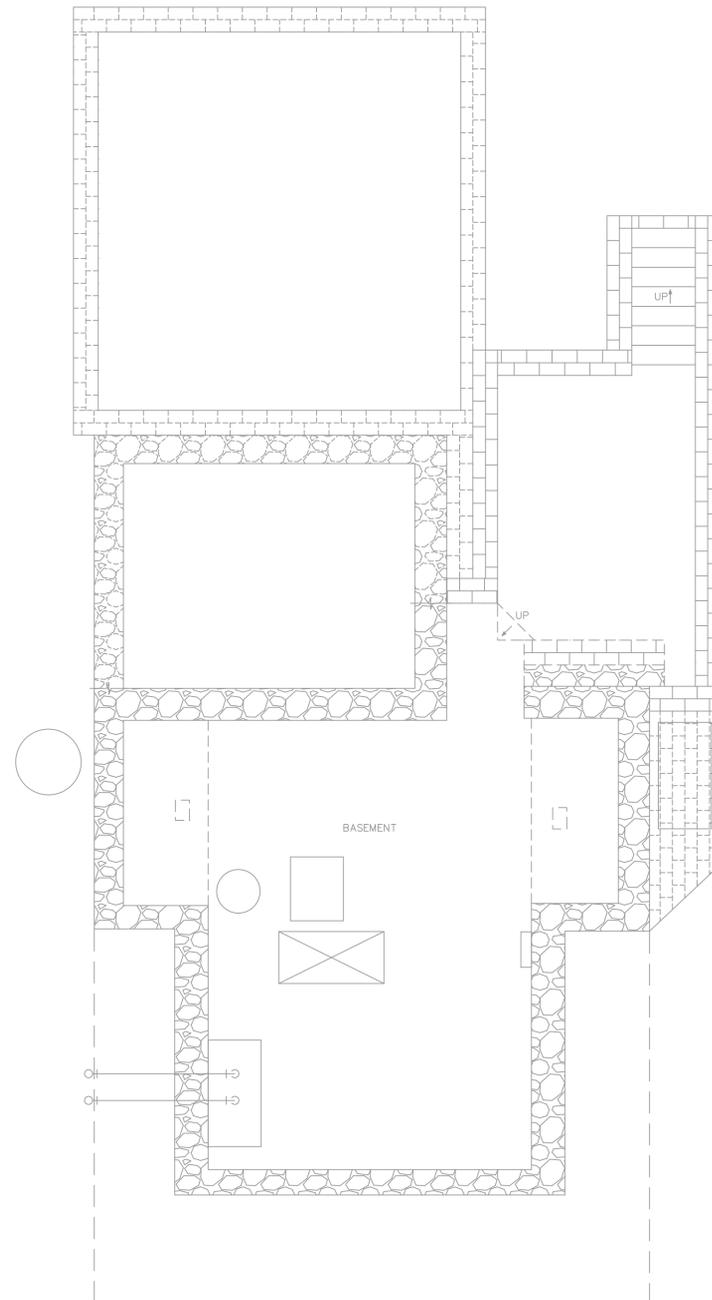
**LEAD PAINT ABATEMENT
GENERAL NOTES**

FOR COMPREHENSIVE LEAD INSPECTION REPORT AND FULL LEAD ABATEMENT PLAN, SEE CONTRACT SPECIFICATIONS. ALL LEAD ABATEMENT WORK TO BE PERFORMED IN ACCORDANCE WITH CONTRACT SPECIFICATIONS AND LEAD ABATEMENT PLAN PREPARED BY GILBERTO LEAD INSPECTIONS LLC. CONTRACTOR SHALL COMPLY WITH ALL LOCAL, STATE, AND FEDERAL REGULATIONS APPLICABLE TO PROJECT ABATEMENT WORK AND AS INDICATED IN ABATEMENT SPECIFICATION SECTION 02 83 19.13 OF THE CONTRACT SPECIFICATIONS.

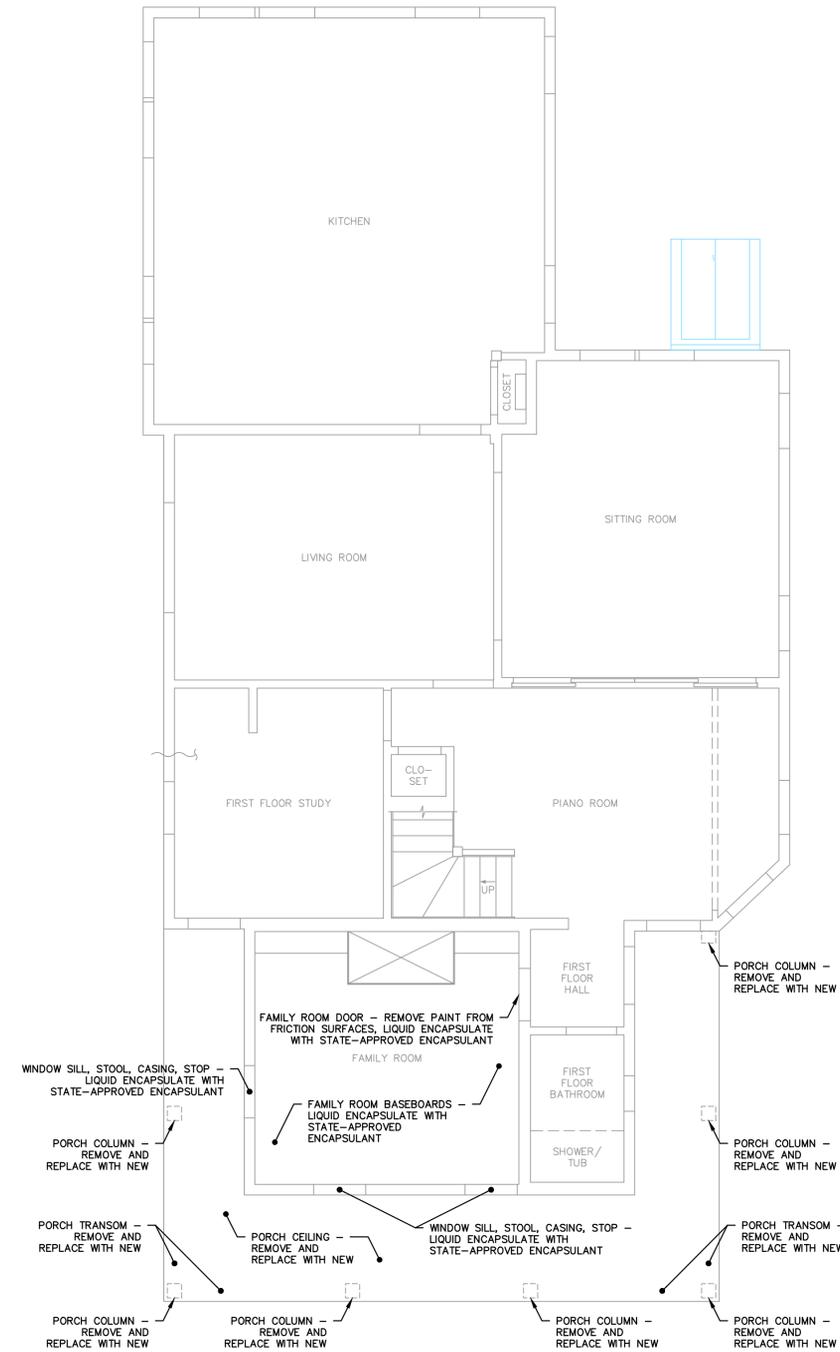
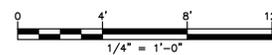
ALL SURFACES SCHEDULED FOR REMOVAL OF LEADED PAINT AND LIQUID ENCAPSULATION SHALL BE REPAINTED TO MATCH ADJACENT FINISHES OR ORIGINAL COLOR WITH BEST POSSIBLE COLOR MATCHING.

SURFACES SCHEDULED FOR LIQUID ENCAPSULATION SHALL BE PROPERLY STABILIZED TO ESTABLISH AN ACCEPTABLE SUBSTRATE FOR APPLICATION OF APPROVED LIQUID ENCAPSULATE MATERIAL. CONTRACTOR SHALL PERFORM X-TEST ON REPRESENTATIVE SURFACE AND SAMPLE AREAS.

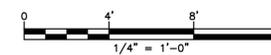
ALL DEMOLITION MATERIALS ASSOCIATED WITH LEAD ABATEMENT WORK SHALL BE DISPOSED PER THE LEAD ABATEMENT PLAN AS HAZARDOUS WASTE WITH A TCLP READING GREATER THAN 5 mg/L. ALL LICENSES, TESTING RESULTS, AND MANIFESTS MUST BE SUBMITTED PER THE CONTRACT DOCUMENTS.



BASEMENT PLAN



FIRST FLOOR PLAN



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LEAD ABATEMENT PLANS

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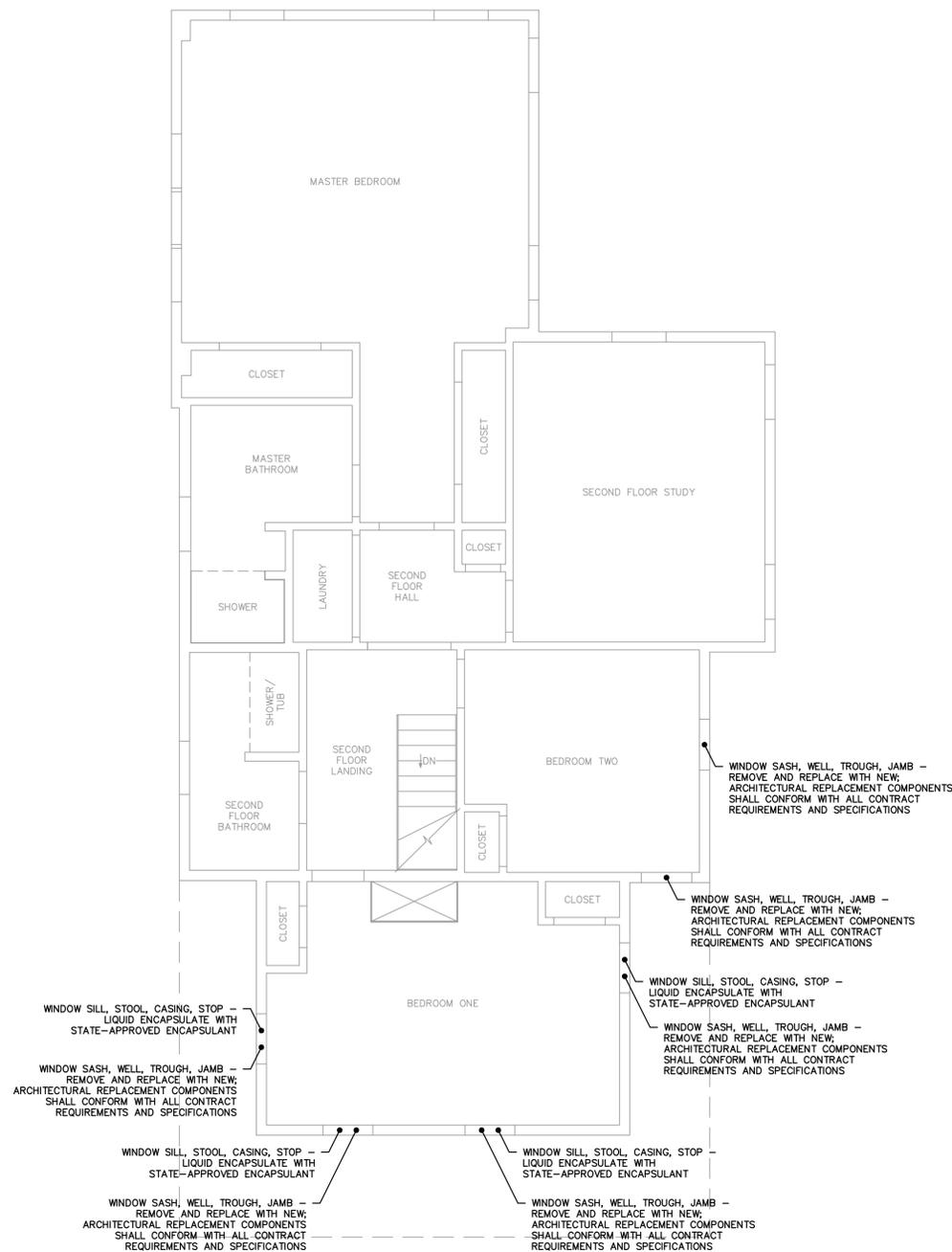
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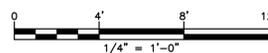
ALL SURFACES SCHEDULED FOR REMOVAL OF LEADED PAINT AND LIQUID ENCAPSULATION SHALL BE REPAINTED TO MATCH ADJACENT FINISHES OR ORIGINAL COLOR WITH BEST POSSIBLE COLOR MATCHING.

SURFACES SCHEDULED FOR LIQUID ENCAPSULATION SHALL BE PROPERLY STABILIZED TO ESTABLISH AN ACCEPTABLE SUBSTRATE FOR APPLICATION OF APPROVED LIQUID ENCAPSULATE MATERIAL. CONTRACTOR SHALL PERFORM X-TEST ON REPRESENTATIVE SURFACE AND SAMPLE AREAS.

ALL DEMOLITION MATERIALS ASSOCIATED WITH LEAD ABATEMENT PLAN AS HAZARDOUS WASTE WITH A TCLP READING GREATER THAN 5 mg/L. ALL LICENSES, TESTING RESULTS, AND MANIFESTS MUST BE SUBMITTED PER THE CONTRACT DOCUMENTS.



SECOND FLOOR PLAN



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LEAD ABATEMENT PLANS

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| 33-262-2250 | BASEMAP 33-262-2250.dwg | HM-1.1 |

DIVISION 15000 - MECHANICAL

PART 1 - GENERAL

1.1 PIPE HANGERS AND SUPPORTS SHALL MEET THE REQUIREMENTS OF MSS SP-69 AND SP-89 DEVELOPED BY THE MANUFACTURERS STANDARDIZATION SOCIETY OF THE VALVES AND FITTINGS INDUSTRY INC.

1.2 SEISMIC SUPPORTS AND RESTRAINTS FOR EQUIPMENT, DUCTWORK AND PIPING SHALL MEET STATE BUILDING CODE REQUIREMENTS AND SMACNA SEISMIC RESTRAINT MANUAL GUIDELINES.

1.3 GENERAL PIPING REQUIREMENTS:

- A. ALL PIPING SHALL BE RUN PARALLEL TO THE LINE OF THE BUILDING.
- B. PITCH OF LINES SHALL BE UNIFORM AND TRUE WITH NO SAGS, POCKETS OR TRAPS. ECCENTRIC FITTINGS SHALL BE USED WHERE NECESSARY TO PROVIDE COMPLETE DRAINAGE.
- C. PROVIDE ISOLATION VALVES AT ALL CONNECTIONS TO FIXTURES AND ALL BRANCH TAKE-OFFS.
- D. PROVIDE MANUAL VENT VALVES AT ALL HIGH POINTS AND DRAIN VALVES AT ALL LOW POINTS.
- E. SCREWED PIPE JOINTS SHALL BE MADE WITH TEFLON PIPE THREAD TAPE OR APPROVED PIPE JOINT COMPOUND.

1.4 TESTING:

- A. ALL PIPING SYSTEMS INSTALLED UNDER THIS CONTRACT SHALL BE PRESSURE TESTED WITH CLEAN WATER, UNLESS NOTED OTHERWISE, TO INSURE TIGHTNESS.
 - 1. HOT AND COLD WATER SUPPLY PIPING SHALL BE TESTED TO 150 PSIG.
 - 2. HEATING HOT WATER SUPPLY AND RETURN PIPING SHALL BE TESTED TO 100 PSIG.
 - 3. DRAINAGE AND VENT PIPING SHALL BE TESTED TO 10 FOOT HEAD OF WATER.
 - 4. PROPANE PIPING SHALL BE TESTED IN ACCORDANCE WITH NFPA 54. TEST PRESSURE SHALL BE 3 PSIG. TEST MEDIUM SHALL BE AIR, NITROGEN OR CARBON DIOXIDE.
- B. CONTRACTOR SHALL BE RESPONSIBLE FOR FURNISHING ALL PLUGS, PIPING, VALVES, HOSES, AND PUMPS NECESSARY FOR THE REQUIRED TESTS AND FOR PROPER DISPOSAL OF THE TEST MEDIUM UPON COMPLETION OF THE TESTS.

1.5 CLEANING OF THE PIPING SYSTEMS:

- A. UPON COMPLETION OF ALL WORK AND SATISFACTORY TESTING, ALL PIPING SYSTEMS (EXCEPT PROPANE PIPING) SHALL BE FLUSHED WITH WATER TO REMOVE DIRT, GRIT, CHIPS AND FOREIGN MATTER. PROPANE PIPING SHALL BE PURGED OF AIR IN ACCORDANCE WITH NFPA 54.
- B. WATER FOR FLUSHING SHALL BE USED IN SUFFICIENT QUANTITY TO PRODUCE A VELOCITY OF AT LEAST 2.5 FEET PER SECOND. FLUSHING SHALL CONTINUE UNTIL DISCHARGE WATER SHOWS NO DISCOLORATION OR EVIDENCE OF FOREIGN MATERIALS.
- C. DURING FLUSHING OPERATION, ALL VALVES SHALL BE OPERATED SEVERAL TIMES, BYPASSES OPENED AND EQUIPMENT FLUSHED.
- D. UPON COMPLETION OF FLUSHING OPERATIONS, ALL STRAINERS, FILTERS AND BLOWDOWNS SHALL BE REMOVED AND CLEANED OF ACCUMULATED WASTE.
- E. CARE SHOULD BE TAKEN TO INSURE THE COMPLETE REMOVAL OF ALL WATER FROM THE LINE OR SYSTEM AFTER TESTING. IF THERE IS ANY DANGER OF CONTAMINATION OR FREEZING, BLOW OUT THE FLUID WITH DRY, OIL-FREE AIR.

1.6 CLEANING AND STERILIZATION OF POTABLE WATER SYSTEM: PURGE OF DELETERIOUS MATTER AND DISINFECT PRIOR TO USE. THE METHOD TO BE FOLLOWED SHALL BE THAT PRESCRIBED BY THE HEALTH AUTHORITY HAVING JURISDICTION, OR, IN THE ABSENCE OF A PRESCRIBED METHOD, THE PROCEDURE DESCRIBED IN EITHER AWWA C652 OR AWWA C518.

1.7 PIPE INSULATION SHALL BE RIGID, HEAVY DENSITY, PREFORMED GLASS FIBER, WITH ALL SERVICE JACKET. JACKET SHALL HAVE PRESSURE SENSITIVE TAPE CLOSURE. BUTT JOINTS SHALL HAVE 3" WIDE TAPE OF SAME MATERIAL. VALVES AND FITTINGS SHALL BE INSULATED WITH ZESTON, OR APPROVED EQUAL, INSULATED PVC, ONE PIECE, SNAP-TYPE COVERS AND ZESTON 1 1/2" Z-TAPE, 10 MIL. EXTERIOR INSULATED PIPES SHALL HAVE ALUMINUM JACKET. INSULATION THICKNESS AS FOLLOWS:

| SYSTEM | INSULATION THICKNESS |
|--|----------------------|
| A. HEATING HOT WATER | 1-1/2" |
| B. HEATING HOT WATER EXTERIOR TO BLDG ENVELOPE | 2" |
| C. DOMESTIC COLD WATER | 1" |
| D. DOMESTIC COLD WATER EXTERIOR TO BLDG ENVELOPE | 2" |
| E. DOMESTIC HOT WATER | 1" |
| F. DOMESTIC HOT WATER EXTERIOR TO BLDG ENVELOPE | 2" |

1.8 PIPE IDENTIFICATION:

- A. ALL PIPING SHALL BE IDENTIFIED WITH NAME AND FLOW DIRECTION ARROWS. MARKERS SHALL BE PLACED EVERY 40 LINEAL FEET ON STRAIGHT RUNS, AT CHANGES IN DIRECTION, AND AT WALL PENETRATIONS (BOTH SIDES).
- B. PIPE MARKERS SHALL BE EQUAL TO SETMARK, AS MANUFACTURED BY SETON NAMEPLATE CO.
 - 1. TEXT AND BACKGROUND COLORS SHALL FOLLOW ANSI A13.1.

PART 2 - PLUMBING

2.1 WATER PIPING: SHALL BE TYPE L HARD DRAWN COPPER TUBING CONFORMING TO ASTM B88, WITH ASME B16.22 WROUGHT COPPER FITTINGS, ASTM B32 SOLDER GRADE 951A JOINTS.

2.2 ABOVE GROUND DRAINAGE PIPING: SANITARY PIPING SHALL BE SOLID WALL DRAIN, WASTE AND VENT PVC WITH PVC FITTINGS AND SOLVENT WELDED JOINTS.

2.3 PROPANE PIPING: BURIED AND ABOVE GROUND PIPING SHALL BE ASTM B280 TYPE ACR COPPER TUBING WITH BRAZED JOINTS AND COPPER FITTINGS. PROVIDE BURIED PIPING WITH PROTECTIVE COATING.

2.4 VALVES SHALL BE AS FOLLOWS:

- A. BALL VALVES: 2" AND SMALLER - JAMESBURY CLINCHER SERIES 2000.
- B. PLUG VALVES: 2" AND SMALLER - DEZURIK SERIES 100.

2.5 PLUMBING EQUIPMENT

A. COMBI-BOILER/DOMESTIC WATER HEATER SHALL BE ENERGY STAR RATED, PACKAGED, WALL MOUNTED, PROPANE-FIRED, TANKLESS, ULTRA HIGH EFFICIENCY (95% AFUE), CONDENSING TYPE, NAVIEN MODEL NCB-185E OR APPROVED EQUAL. PROVIDE WITH INTEGRAL DDC CONTROLS, FULLY MODULATING BURNER WITH DIRECT SPARK IGNITION, DUAL STAINLESS STEEL HEAT EXCHANGERS, GAS VALVE WITH SAFETIES, PLUMB EASY VALVE SET, DIRECT VENT WITH OUTDOOR VENT KIT, CONDENSATION NEUTRALIZATION KIT, INTEGRAL BOILER PUMP AND ZONE VALVE CONTROLLER. HEATER SHALL BE DESIGNED FOR USE WITH 115V/1-PHASE POWER. CAPACITY SHALL BE 15,000 TO 150,000 BTUH.

B. COMBI-BOILER FLUE AND COMBUSTION AIR INTAKE SHALL BE SCHEDULE 40 CPVC WITH SOLVENT WELD FITTINGS.

PART 3 - HVAC

3.1 PIPING

A. HEATING HOT WATER SUPPLY AND RETURN PIPING SHALL BE TYPE L COPPER TUBING WITH WROUGHT COPPER FITTINGS AND 95% SOLDERED JOINTS.

3.2 VALVES SHALL BE AS FOLLOWS:

- A. BALL VALVES: 2" AND SMALLER - JAMESBURY CLINCHER SERIES 2000.

PART 4 - EXECUTION

4.1 CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS PRIOR TO THE START OF WORK INCLUDING SIZES OF PIPING TO BE RE-USED. CONTRACTOR SHALL NOTIFY THE OWNER IF ANY DIFFERENCES FROM THE DESIGN DOCUMENTS ARE NOTED.

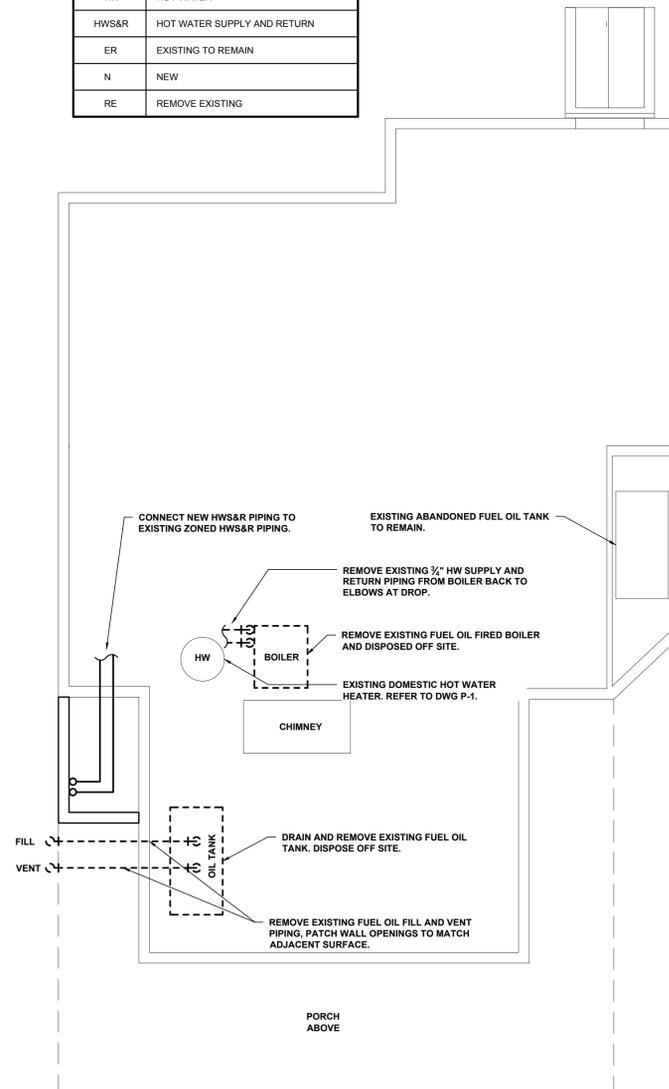
4.2 CONTRACTOR SHALL COORDINATE WITH ALL TRADES PRIOR TO THE START OF WORK.

4.3 ALL EQUIPMENT SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS.

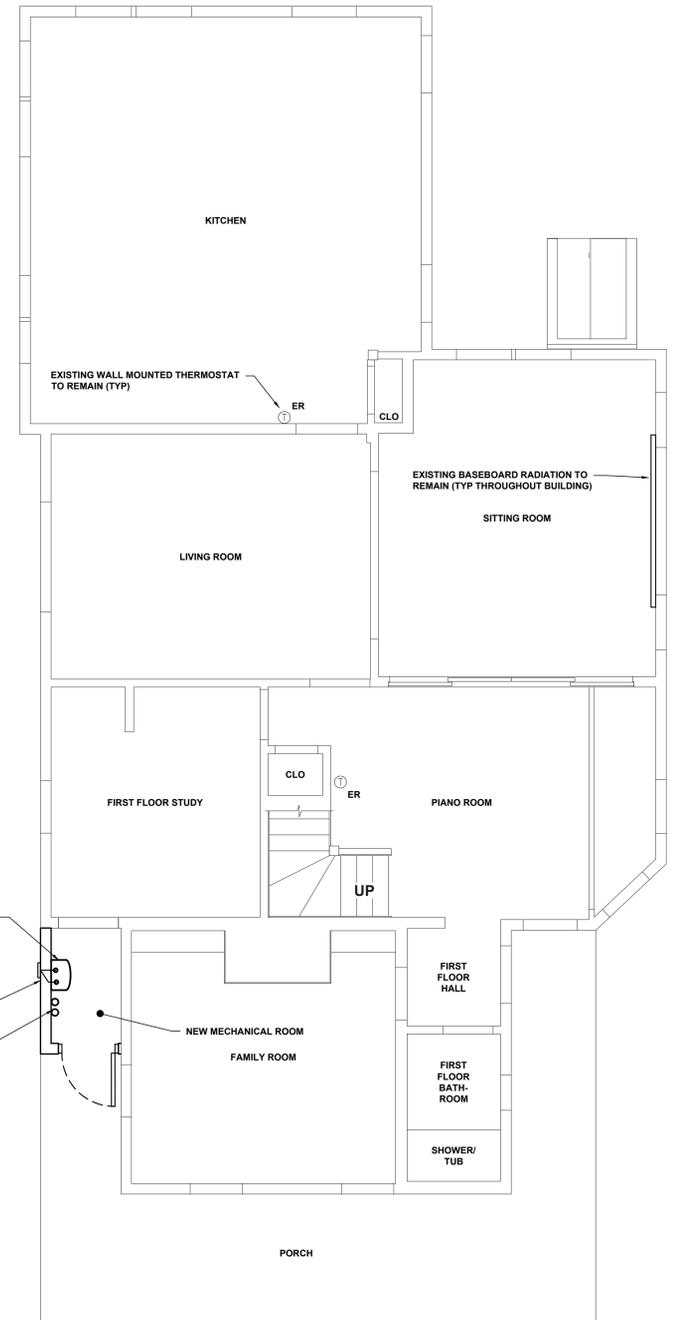
4.4 CONTRACTOR SHALL INSTRUCT HOMEOWNER ON THE PROPER OPERATION AND MAINTENANCE OF ALL NEW EQUIPMENT AT THE COMPLETION OF CONSTRUCTION AT A TIME CONVENIENT TO THE OWNER.

4.5 CONTRACTOR SHALL PROVIDE TWO COPIES OF PROJECT O&M MANUALS TO THE OWNER AT COMPLETION OF PROJECT.

| LEGEND | |
|--------|-----------------------------|
| SYMBOL | DESCRIPTION |
| (E) | EXPANSION TANK |
| (C) | PIPE ELBOW TURNED DOWN |
| (U) | PIPE ELBOW TURNED UP |
| (T) | PIPE TEE TURNED DOWN |
| (M) | ZONE VALVE |
| (I) | BALL ISOLATION VALVE |
| (T) | THERMOSTAT |
| EF | EXHAUST FAN |
| HW | HOT WATER |
| HWS&R | HOT WATER SUPPLY AND RETURN |
| ER | EXISTING TO REMAIN |
| N | NEW |
| RE | REMOVE EXISTING |



1 BASEMENT PLAN
1/4"=1'-0"



2 FIRST FLOOR PLAN
1/4"=1'-0"

- NOTES:
- INFORMATION SHOWN IS BASED UPON CASUAL FIELD OBSERVATIONS. CONTRACTOR TO FIELD VERIFY EXISTING CONDITIONS PRIOR TO THE START OF WORK.
 - PIPE ROUTING SHOWN IS SCHEMATIC IN NATURE. ACTUAL ROUTING SHALL BE COORDINATED WITH EXISTING UTILITIES AND OTHER TRADES PRIOR TO THE START OF WORK.
 - INSTALL ALL EQUIPMENT PER MANUFACTURERS RECOMMENDATIONS.
 - ROUTE ALL PIPING UP OUT OF THE FLOOR PLAN.



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SMEP Consultant:



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Plainville, Connecticut 06062
Phone: 860-747-6181 / Fax: 860-747-8822
An Employee Owned Company
email: info@loureiro.com
Conn No. 54MC503

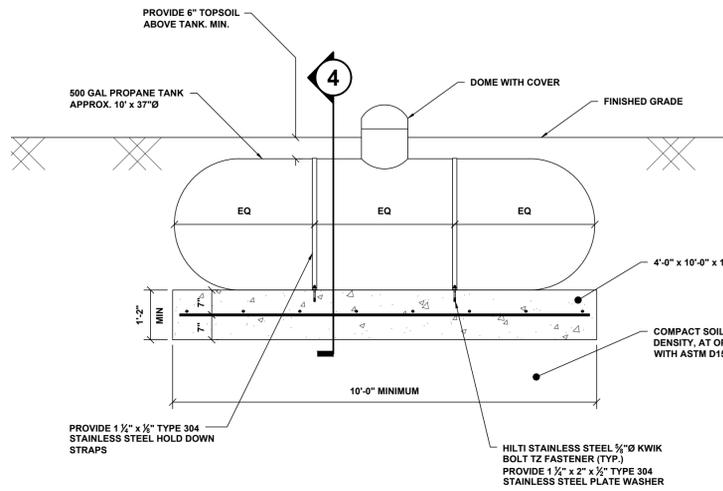
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| 1 | 3/21/16 | ISSUED FOR CT DOH REVIEW AND APPROVAL | JTF | RJS | RJS |

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MECHANICAL PLANS

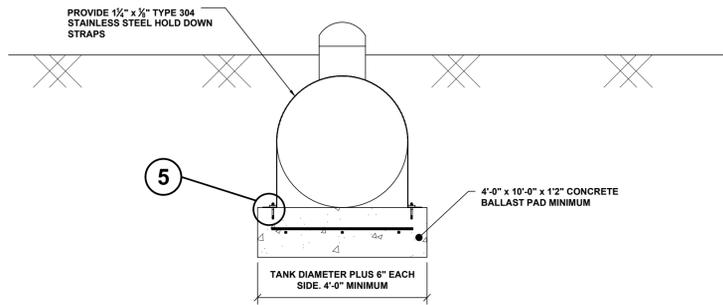
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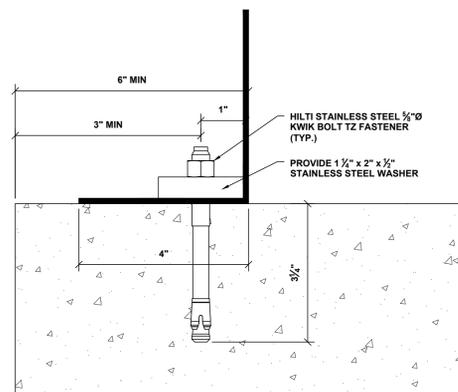


NOTES:
 CONCRETE BALLAST PAD SHALL BE 3000 PSI NORMAL WEIGHT CONCRETE WITH 5-7% ENTRAINED AIR.
 PROVIDE #5 EACH WAY AT 16" O.C.

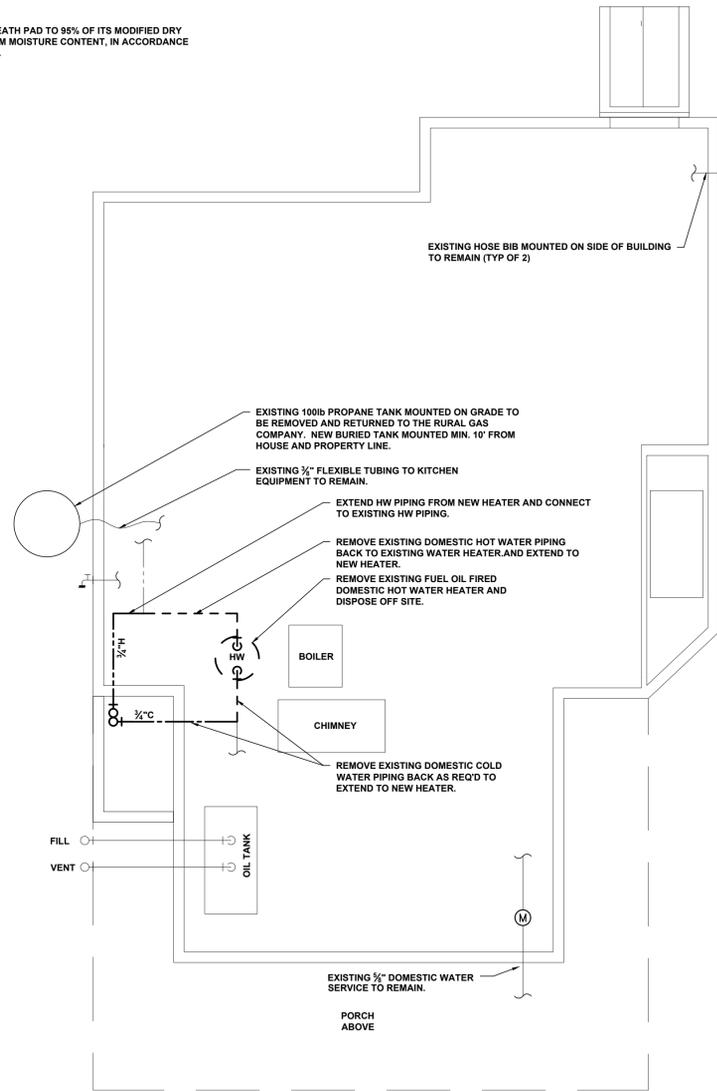
3 SECTION THROUGH UNDERGROUND PROPANE TANK
 1/2"=1'-0"



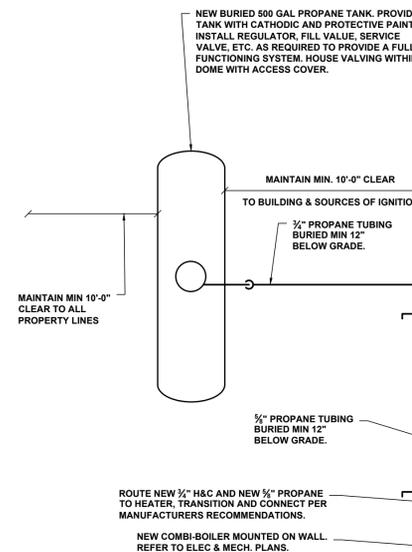
4 SECTION THROUGH UNDERGROUND PROPANE TANK
 1/2"=1'-0"



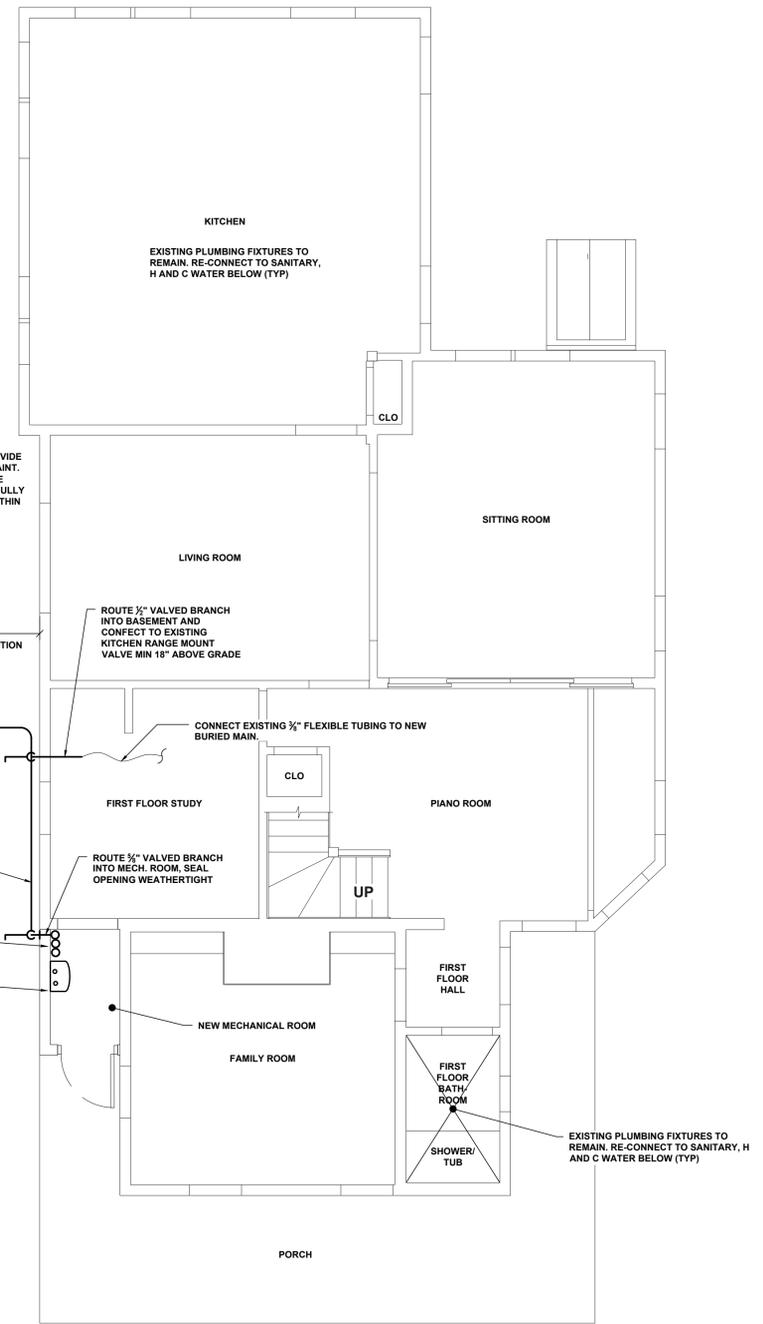
5 ANCHOR DETAIL
 6"=1'-0"



1 BASEMENT PLAN
 1/4"=1'-0"



| LEGEND | |
|--------|------------------------|
| SYMBOL | DESCRIPTION |
| (M) | METER |
| C | PIPE ELBOW TURNED DOWN |
| U | PIPE ELBOW TURNED UP |
| T | PIPE TEE TURNED DOWN |
| V | VALVE ON PIPE RISE |
| B | BALL ISOLATION VALVE |
| G | GAS COCK |
| ER | EXISTING TO REMAIN |
| N | NEW |
| RE | REMOVE EXISTING |
| C | COLD |
| H | HOT |



2 FIRST FLOOR PLAN
 1/4"=1'-0"

NOTE:
 1. INFORMATION SHOWN IS BASED UPON CASUAL FIELD OBSERVATIONS. CONTRACTOR TO FIELD VERIFY EXISTING CONDITIONS PRIOR TO THE START OF WORK.
 2. PIPE ROUTING SHOWN IS SCHEMATIC IN NATURE. ACTUAL ROUTING SHALL BE COORDINATED WITH EXISTING UTILITIES AND OTHER TRADES PRIOR TO THE START OF WORK.
 3. INSTALL ALL EQUIPMENT PER MANUFACTURERS RECOMMENDATIONS.
 4. ROUTE ALL PIPING UP OUT OF THE FLOOR PLAN.
 5. HEAT TRACE ALL WATER PIPING EXPOSED TO EXTERIOR. SEE ELECTRICAL DWGS.

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| 2 | 3/29/16 | ISSUED FOR BIDDING | JTF/EMG | RJS | RJS |
| 1 | 3/21/16 | ISSUED FOR CT DOH REVIEW AND APPROVAL | JTF/EMG | RJS | RJS |

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PLUMBING PLANS

| JOB NO. | DRAWING NUMBER | SHEET |
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| 33-262-2250 | 54MC503 P-1.dwg | P-1 |



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DIVISION 26000 - ELECTRICAL

1.1 DESCRIPTION:

WORK INCLUDED - THE WORK TO BE PROVIDED UNDER THIS DIVISION INCLUDES:

A. BRANCH, FEEDER CIRCUITS AND PANELS.

B. POWER WIRING FOR MECHANICAL AND PLUMBING EQUIPMENT.

SCOPE - THIS WORK SHALL CONSIST OF THE FURNISHING OF ALL LABOR, MATERIALS AND SERVICES REQUIRED COMPLETE, READY FOR CORRECTION OPERATION, ALL ELECTRICAL WORK CALLED FOR BY THE ACCOMPANYING DRAWINGS AND SPECIFICATIONS. ALL ELECTRICAL SHALL BE PERFORMED IN ACCORDANCE WITH THE 2011 NATIONAL ELECTRICAL CODE, STATE AND LOCAL CODES.

PERMITS, FEES AND INSPECTIONS - THE CONTRACTOR SHALL GIVE ALL NECESSARY NOTICES, OBTAIN ALL PERMITS, PAY ALL GOVERNMENTAL AND STATE SALES TAXES AND FEES APPLICABLE. THE CONTRACTOR SHALL FILE ALL DRAWINGS, AND OBTAIN ALL NECESSARY APPROVAL FROM PROPER AUTHORITY OR AGENCY HAVING JURISDICTION. OBTAIN ALL REQUIRED CERTIFICATES OF INSPECTION COVERING HIS WORK. THE CONTRACTOR SHALL SEE THAT ALL REQUIRED INSPECTIONS AND TESTS ARE MADE AND SHALL COOPERATE TO MAKE THESE TESTS AS THOROUGH AND AS READILY MADE AS POSSIBLE.

COORDINATION - ALL WORK SHALL BE CARRIED OUT IN CONJUNCTION WITH OTHER TRADES AND FULL COOPERATION SHALL BE GIVEN IN ORDER THAT ALL WORK MAY PROCEED WITH A MINIMUM OF DELAY AND INTERFERENCE.

GUARANTEES - ALL WORKMANSHIP AND MATERIALS SHALL BE FULLY GUARANTEED FOR A PERIOD OF ONE YEAR AFTER FINAL COMPLETION OF THE ENTIRE INSTALLATION COVERED BY THIS CONTRACT. SHOULD ANY DEFECTS OCCUR DURING THIS GUARANTEE PERIOD, THE CONTRACTOR SHALL REPAIR AND/OR REPLACE ALL DEFECTIVE EQUIPMENT, MATERIALS AND/OR WORK WITHOUT COST TO THE OWNER.

TEMPORARY LIGHT AND POWER - FURNISH AND INSTALL TEMPORARY ELECTRICAL POWER AND LIGHTING FOR USE BY ALL CONTRACTORS DURING THE COURSE OF CONSTRUCTION. ALL TEMPORARY WORK SHALL BE IN COMPLIANCE WITH ALL APPLICABLE ARTICLES IN THE NATIONAL ELECTRICAL CODE, O.S.H.A. AND WITH ALL REQUIREMENTS OF ANY AUTHORITIES HAVING JURISDICTION OVER WORK.

MATERIALS AND WORKMANSHIP - ALL MATERIALS AND APPARATUS REQUIRED FOR THE WORK EXCEPT AS OTHERWISE SPECIFIED, SHALL BE NEW AND OF FIRST-CLASS QUALITY AND SHALL BE FURNISHED, DELIVERED, ERECTED, CONNECTED AND FINISHED IN EVERY DETAIL AND SO SELECTED AND ARRANGED AS TO FIT PROPERLY INTO THE BUILDING SPACES. WHERE NO SPECIFIC KIND OR QUALITY OF MATERIAL IS GIVEN, A FIRST-CLASS STANDARD ARTICLE AS ACCEPTED BY THE ARCHITECT SHALL BE FURNISHED. ALL EQUIPMENT AND MATERIALS SHALL BE SPECIFICATION GRADE AND BEAR THE UNDERWRITER'S LABEL. ALL WORK SHALL BE OF A QUALITY CONSISTENT WITH GOOD TRADE PRACTICE AND SHALL BE INSTALLED IN A NEAT, WORKMANLIKE MANNER. THE ARCHITECT RESERVES THE RIGHT TO REJECT ANY WORK WHICH, IN HER OPINION, HAS BEEN INSTALLED IN A SUB-STANDARD, DANGEROUS OR UNSERVICEABLE MANNER. THE CONTRACTOR SHALL REPLACE SAID WORK IN A SATISFACTORY MANNER AT NO EXTRA CHARGE TO THE OWNER.

PENETRATION SEALANT - ALL PENETRATIONS SHALL BE SEALED WITH 3M INTUMESCENT FIRE BARRIER PENETRATION SEALANT, APPLIED PER MANUFACTURER'S AND U.L. GUIDELINES.

1.2 COMPONENTS:

GENERAL - ALL MATERIALS AND EQUIPMENT PROVIDED UNDER THIS SECTION SHALL BE NEW, FIRST GRADE, BEST OF THEIR SECTION AND SHALL MEET THE REQUIREMENTS OF ALL STANDARDS SET UP TO GOVERN THE MANUFACTURE OF ELECTRICAL MATERIALS AND COMPLY WITH ALL APPLICABLE CODES AND STANDARDS. ALL EQUIPMENT AND MATERIALS SHALL BE SPECIFICATION GRADE AND BEAR UNDERWRITER'S (U.L.) LABEL.

POWER - FROM UTILITY AT 240/120V, 1 PHASE, 3 WIRE IS AVAILABLE FROM EXISTING UTILITY PROVIDE NEW SERVICE ENTRANCE CABLE, WEATHER-HEAD, METER AND METER CAN AS SHOWN ON THE DRAWINGS.

WIRE - CONDUCTORS SHALL BE U.L. LISTED, 600 VOLTS, 90 DEG. C., SINGLE CONDUCTOR TYPE THWN/THHN. 98% CONDUCTIVITY ANNEALED UNCOATED COPPER WITH PVC INSULATION COVERED WITH NYLON SHEATH JACKET. TESTED IN ACCORDANCE WITH THE REQUIREMENTS OF THE UNDERWRITER'S LABORATORIES STANDARD 83. WIRE SHALL BE IDENTIFIED BY SURFACE MARKING, INDICATING MANUFACTURER'S IDENTIFICATION, CONDUCTOR SIZE AND METAL, VOLTAGE RATING, U.L. SYMBOL AND TYPE DESIGNATION. CONDUCTORS SHALL BE STRANDED. MINIMUM SIZE SHALL BE #12AWG UNLESS OTHERWISE INDICATED. MANUFACTURED BY ESSEX, ROME CABLE, TRIANGLE CABLE OR GENERAL CABLE.

NON METALLIC SHEATHED CABLE - TYPE - NM-B CABLE SHALL BE OF MAXIMUM OPERATING VOLTAGE: 600 VOLTS. MAXIMUM AMPACITY IS LIMITED TO 60°C, IN ACCORDANCE WITH NEC.

ARMORED CABLE (AC) - ARMORED CABLE SHALL BE OF GALVANIZED STEEL INTERLOCKING ARMOR CONSTRUCTION. COLOR CODED THERMOPLASTIC INSULATED COPPER CONDUCTORS, 90 DEG. C, 600 VOLTS. CONDUCTOR SIZES SHALL BE AS INDICATED ON THE DRAWINGS. IF NOT INDICATED, THE SIZES OF POWER AND LIGHTING CONDUCTORS SHALL NOT BE LESS THAN SIZE #12AWG. MANUFACTURED BY AMERICAN FLEXIBLE CONDUIT, TRIANGLE OR SOUTHWIRE. CONNECTORS SHALL BE SQUEEZE TYPE, DIE CAST ZINC, OR MALLEABLE IRON - CADMIUM PLATED. MANUFACTURED BY O-Z GEDNEY, APPLETON OR THOMAS-BETTS.

FITTINGS - CONDUIT STRAPS SHALL BE SNAP-TYPE, DOUBLE RIBBED STEEL - ZINC PLATED. METAL CLAD CABLE AND FLEXIBLE METALLIC CONDUIT CONNECTORS SHALL BE MALLEABLE IRON-ZINC PLATED, MALE HUB THREADS WITH LOCKWUT.

BOXES - RECESSED OUTLET BOXES SHALL BE DRAWN STEEL, GALVANIZED WITH A MINIMUM DEPTH OF 1-1/2 INCHES. MINIMUM SIZE SHALL BE 4 INCH X 4 INCH SQUARE. PROVIDE AND INSTALL PLASTER RINGS AS REQUIRED. OUTLET BOXES FOR SURFACE MOUNTED SWITCHES AND RECEPTACLES SHALL BE TYPE FD, CAST FERROALLOY WITH THREADED HUBS. PROVIDE GASKETED COVER AS REQUIRED.

SWITCHES - SPECIFICATION GRADE, 120-277VAC 20 AMP, SINGLE POLE. COLOR SHALL BE (IVORY) OR (WHITE) TO MATCH EXISTING. (RED - LABELED WHERE INDICATED)

RECEPTACLE AND SWITCH COVER PLATES SHALL BE (SMOOTH THERMOPLASTIC) (IVORY) OR (WHITE) TO MATCH EXISTING..

PANELBOARDS - PANELBOARDS: NEMA PB 1, CIRCUIT BREAKER SNAP-IN TYPE, USE NEW 200 AMP, 240V, 1 PHASE MAIN DISTRIBUTION PANEL (MDP) AND CIRCUIT BREAKERS AS NOTED FOR EXISTING CIRCUITS TIE-IN AND RELOCATED BOILER AND HOT WATER CIRCUITS.

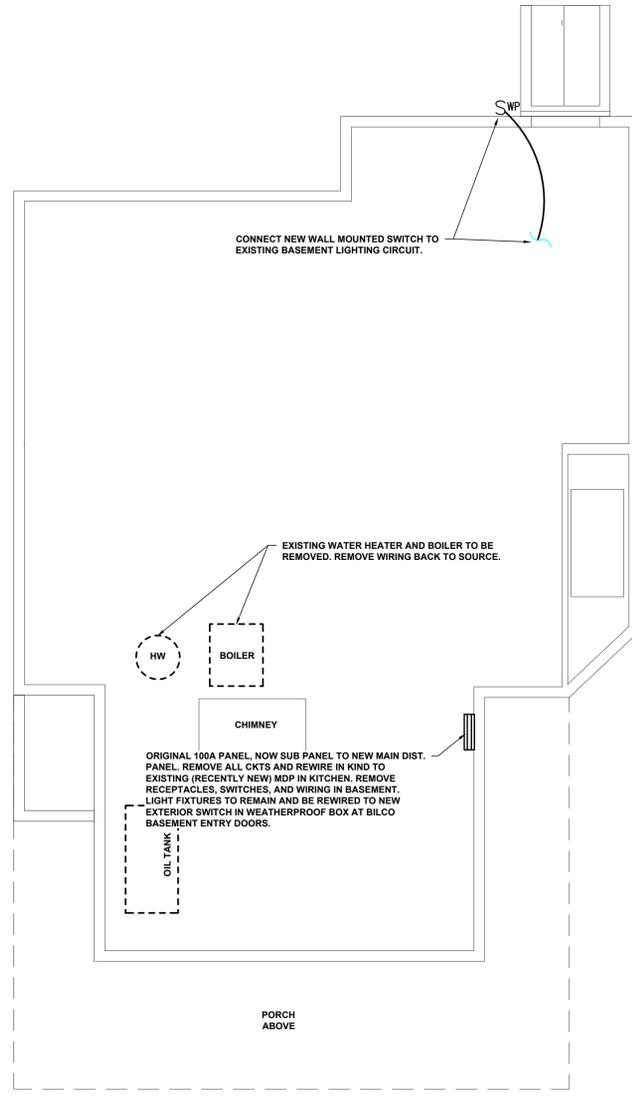
HEAT TRACE: USE NELSON TYPE HTL3 SELF-REGULATING HEATER CABLE AT 3 WATTS PER FOOT. CONTRACTOR WILL HEATTRACE ALL EXPOSED DOMESTIC WATER LINES AND HOT WATER HEATING LINES ON THE FIRST FLOOR JOIST SPACES BEFORE INSULATION AND WEATHER ENCLOSURE. ALSO, HEAT TRACE WILL BE APPLIED ON DOMESTIC WATER SUPPLY LINES FROM 3 FEET BELOW GROUND UP COLUMN INTO FIRST FLOOR WEATHER TIGHT CAVITY.

1.3 FIELD QUALITY CONTROL:

IDENTIFICATION - PROVIDE AND INSTALL MARKERS FOR ALL CONDUITS. MARKERS SHALL BE "BRADY" TYPE ADHESIVE-BACKED, PLASTIC-FACED OF SUITABLE COLOR. MARKER SHALL IDENTIFY SYSTEM AND ELECTRICAL CHARACTERISTICS. INSTALL MARKERS AT POINT OF ORIGIN, TERMINATION, ADJACENT TO EACH INTERMEDIATE SPLICE, AND ALL BOXES IN RUN. IDENTIFY ALL CONDUCTORS AT ORIGIN, TERMINATION AND AT INTERMEDIATE BOXES BY MEANS OF "BRADY" TYPE, PRESSURE SENSITIVE, PLASTIC COATED FACE, STICK-ON LABELS EXCEPT FEEDERS SHALL HAVE PHENOLIC TAGS ENGRAVED WITH CIRCUIT DESIGNATIONS AND ATTACHED WITH PLASTIC TIE-WRAPS.

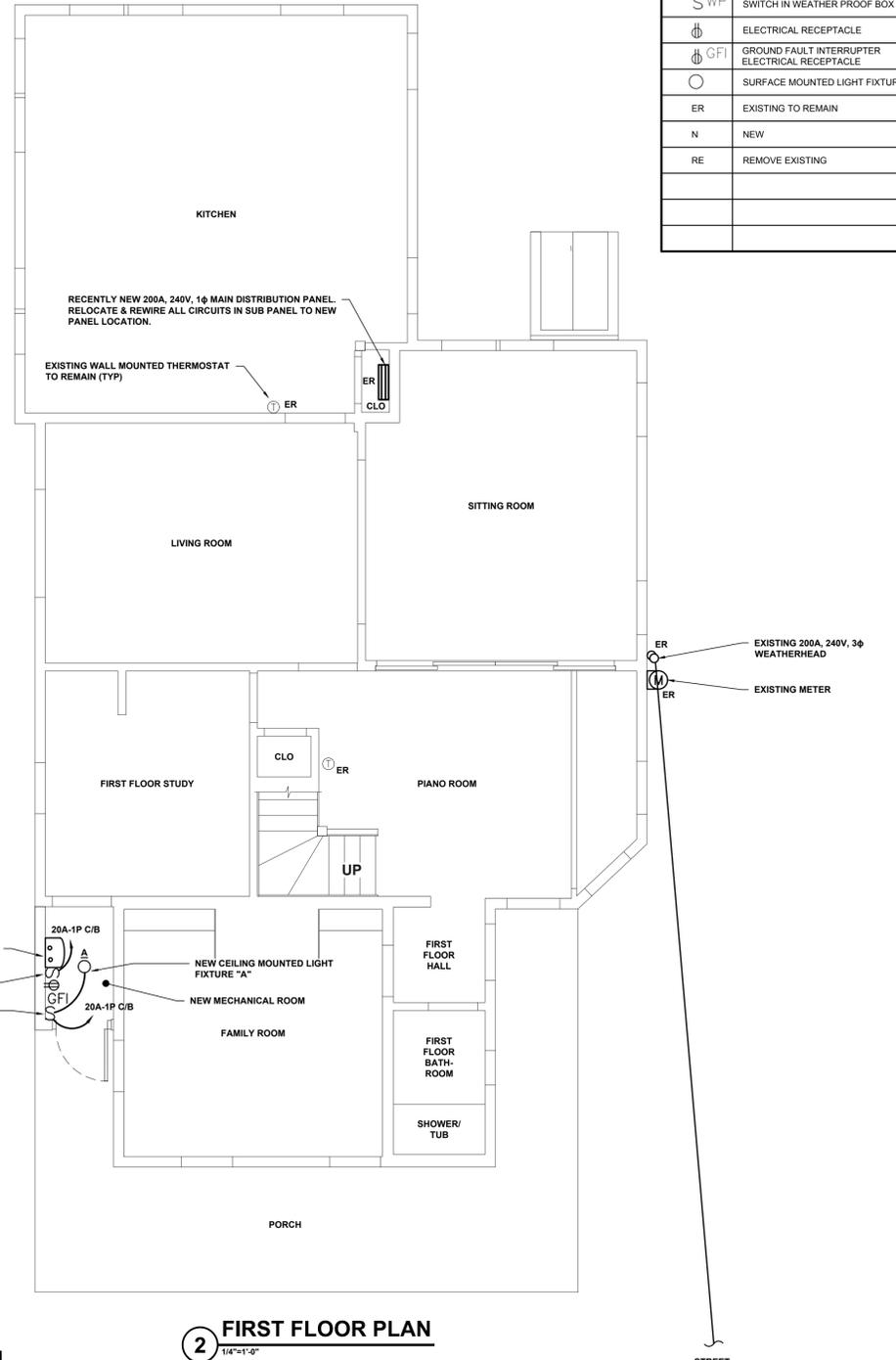
TESTING - UPON COMPLETION OF WORK, CONTRACTOR SHALL CONDUCT (WITH OTHER RELATED CONTRACTORS) OPERATING TESTS OF ALL ELECTRICALLY OPERATED OR CONTROLLED EQUIPMENT FOR APPROVAL AT SUCH TIME AS THE OWNER MAY DIRECT. EQUIPMENT SHALL OPERATE IN ACCORDANCE WITH THE REQUIREMENTS OF THE MANUFACTURER, DRAWINGS AND SPECIFICATIONS. TESTS SHALL BE PERFORMED IN THE PRESENCE OF OWNER AND OWNERS REPRESENTATIVE. THE CONTRACTOR SHALL PROVIDE LABOR, MATERIALS, AND INSTRUMENTS REQUIRED FOR ELECTRICAL PORTION OF TESTS. DEFECTIVE MATERIALS AND WORKMANSHIP DISCLOSED BY TEST SHALL BE CORRECTED AT CONTRACTOR'S EXPENSE.

PROTECTIVE PAINTING - TOUCH-UP FACTORY PAINTED EQUIPMENT THAT HAS BEEN DAMAGED DURING HANDLING OR INSTALLATION. FEATHER DAMAGED AREA AND APPLY PRIMER PLUS TWO FRESH COATS TO MATCH EXISTING FINISH.



1 BASEMENT PLAN
1/4"=1'-0"

| LUMINAIRE SCHEDULE | | | | |
|--------------------|----------------------|----------------|---|---------|
| LABEL | MANUFACTURER | CATALOG NUMBER | DESCRIPTION | LAMP |
| A | QUORUM INTERNATIONAL | 3009-3-65 | SATIN NICKEL CEILING MOUNT 5'0 X 6.25'(H) | LED-12W |



2 FIRST FLOOR PLAN
1/4"=1'-0"

| LEGEND | |
|----------|--|
| SYMBOL | DESCRIPTION |
| [Symbol] | ELECTRICAL PANEL |
| [Symbol] | ELECTRICAL SERVICE METER |
| [Symbol] | SWITCH |
| [Symbol] | SWITCH IN WEATHER PROOF BOX |
| [Symbol] | ELECTRICAL RECEPTACLE |
| [Symbol] | GROUND FAULT INTERRUPTER ELECTRICAL RECEPTACLE |
| [Symbol] | SURFACE MOUNTED LIGHT FIXTURE |
| ER | EXISTING TO REMAIN |
| N | NEW |
| RE | REMOVE EXISTING |

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ELECTRICAL PLANS

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