

MECHANICAL DRAWING LIST

M-1	LEED SHEET
M-2	FIRST FLOOR PLAN MECHANICAL
M-3	SECOND FLOOR PLAN MECHANICAL

LEGEND

---	SANITARY LINE
----	VENT LINE
----	DNW LINE
----	DNW LINE
----	PLUMBING RISER
○	IP TRAP

△ GENERAL NOTES

- POTABLE WATER LINES SHALL BE TYPE 1/2" COPPER, OR CROSS-LINKED POLYETHYLENE (PEX) TUBING. FORCED HOT WATER HEAT LINES SHALL BE TYPE 1/2" COPPER, OR CROSS-LINKED POLYETHYLENE (PEX) TUBING.
 - SOLDER FOR COPPER WATER LINES TO BE LEAD FREE.
 - ALL DRAIN, WASTE AND VENT LINES ARE P.V.C. SCHEDULE 40.
 - ALL HORIZONTAL TO HORIZONTAL AND VERTICAL TO HORIZONTAL CONNECTIONS TO BE MADE WITH LONG TURN OR TEE NTE FITTINGS.
 - ALL HORIZONTAL TO VERTICAL CONNECTIONS TO BE MADE WITH REGULAR SNEEP OR SANITARY FITTINGS.
 - MAXIMUM LENGTH FOR WASTE OUTLET TO TRAP IS 24". THE MAXIMUM TRAP ARM LENGTHS ARE AS SHOWN IN THE TABLE BELOW.(SEE DETAIL 2)
- | PIPE DIA. | NSFC |
|-----------|--------|
| 1 1/2" | 5'-0" |
| 2" | 6'-0" |
| 3" | 8'-0" |
| 4" | 10'-0" |
- SLOPE OF HORIZONTAL DRAINAGE PIPING NOT LESS THAN 1/4" PER FOOT FOR 3" OR LESS PIPE.
 - PLUMBING IS CUSTOM INSTALLED AND SUPPORTED BY BORED HOLES IN THE STACK WALL.
 - DAY SUPPORT STRAPPING IS 3/4" WIDE MIN.
 - HORIZONTAL DRAIN LINES SUPPORTED AT 4'-0" MIN. INTERVALS FOR 3" PIPE AND 3'-0" MIN. INTERVALS FOR 1 1/2" AND 2" PIPE.
 - ALL VENTS THRU ROOF SHALL INCREASE TO 3" FROM 24" ABOVE TO 12" BELOW ROOFLINE.(SEE DETAILS 3&4)
 - ALL FUTURE VENTS TO BE CAPPED OFF AND LABELED.

MECHANICAL

FUEL BURNING PRIMARY HEAT SOURCES SUCH AS FURNACES, BOILERS, ETC. ARE NOT SUPPLIED OR INSTALLED BY N.E.H. THEY ARE TO BE SUPPLIED AND INSTALLED (IN COMPLIANCE WITH THE MANUFACTURER'S INSTRUCTIONS AND APPLICABLE BUILDING, PLUMBING & MECHANICAL CODES) BY THE BUILDER.

FLUES/CHIMNEYS FOR HEAT SOURCES ARE NOT SUPPLIED OR INSTALLED BY N.E.H. FLUE CAVITIES CAN, UPON REQUEST, BE PROVIDED. THESE CAVITIES WILL CONSIST OF ROUGH OPENINGS IN THE FLOOR AND CEILING AS WELL AS THE WALLS TO SURROUND THE CAVITY ONE OF WHICH IS SHIPPED LOOSE. TO FACILITATE THE INSTALLATION OF THE FLUE/CHIMNEY, IT IS THE RESPONSIBILITY OF THE BUILDER TO CUT THE HOLE IN THE FLOOR, CEILING AND ROOF DECKING, INSTALL THE FLUE/CHIMNEY W/ROOF JACKS & FLASHING, AND TO INSTALL AND FINISH THE CHIP LOOSE WALL IN THE UNIT(S) BELOW, IN COMPLIANCE WITH APPLICABLE BUILDING & MECHANICAL CODES.

CLOTHES DRYER VENTS SHALL BE DUCTED TO THE EXTERIOR OF THE STRUCTURE BY THE BUILDER AND SHALL TERMINATE IN AN APPROVED DAMPERED WALL CAP.

ALL BATH VENT FANS SHALL BE DUCTED TO THE EXTERIOR OF THE STRUCTURE, EITHER (A) THROUGH THE ROOF (AS WITH SINGLE STORY STRUCTURES OR THE UPPER LEVEL OF A MULTI-STORY STRUCTURE) OR (B) THROUGH THE SIDE WALL VIA THE CEILING SYSTEM OR SOFFITS (AS WITH LOWER LEVELS OF A MULTI-STORY STRUCTURE).

RANGE HOODS THAT ARE REQUIRED TO BE VENTED, SHALL BE DUCTED TO THE EXTERIOR OF THE STRUCTURE. IF THE RANGE IS AGAINST AN EXTERIOR WALL THE HOOD WILL BE DUCTED THROUGH THAT WALL. IF THE RANGE IS ON AN INTERIOR PARTITION, THE HOOD WILL BE DUCTED (VIA KITCHEN SOFFITS) THROUGH THE EXTERIOR WALL OR ROOF.

- ALL HORIZONTAL VENT BRANCH PIPING SHALL BE LOCATED A MINIMUM OF SIX INCHES(6") ABOVE FLOOR LEVEL OF THE HIGHEST FIXTURE SERVED.
- 1.6 GAL. WATER CONSERVING TOILETS INSTALLED WHERE REQUIRED BY CODE.
- ANTI SCALD DIVERTER ASSEMBLIES SHALL BE INSTALLED ON ALL SHOWER & COMBINATION TUB/SHOWER UNITS.
- ALL EXTERIOR HOSE BIBBS (INSTALLED ON SITE BY THE BUILDER) TO BE ANTI-SIPHON HOSE BIBBS.
- HOT WATER HEATER IS NOT SUPPLIED OR INSTALLED BY THE COMPANY. HOT WATER HEATER IS TO BE SUPPLIED AND INSTALLED (IN COMPLIANCE WITH APPLICABLE PLUMBING CODES) BY THE BUILDER.
- ALL CONNECTIONS BETWEEN THE 1st FLOOR CEILING AND THE 2nd FLOOR AND BELOW THE 1st FLOOR ARE TO BE SUPPLIED AND INSTALLED (IN COMPLIANCE WITH THE APPLICABLE PLUMBING CODES) BY THE BUILDER.
- CAPES AND GAMBRELS WITH UNFINISHED 2nd FLOORS SHALL HAVE ALL FIXTURES, MATERIAL AND CONNECTIONS ABOVE THE 2nd FLOOR DECKING SUPPLIED AND INSTALLED (IN COMPLIANCE WITH APPLICABLE PLUMBING CODES) BY THE BUILDER.
- ENERGY CODES IN MANY STATES REQUIRE THAT CERTAIN POTABLE AND NON-POTABLE WATER LINES THAT PASS OUTSIDE THE THERMAL ENVELOPE OR CONDITIONED SPACE MUST BE INSULATED. THIS PIPE INSULATION IS TO BE SUPPLIED AND INSTALLED ON SITE BY THE BUILDER.
- FOR SIMPLIFICATION, THE MANUFACTURER OF BUILDING PRODUCTS KNOWN AS NEW ENGLAND HOMES, WILL BE IDENTIFIED THROUGHOUT THE BUILDING SYSTEMS DOCUMENTATION AS "THE COMPANY". THE PURCHASER WHO IS THE CONTRACTUAL PURCHASER OF GOODS FROM THE COMPANY WILL BE IDENTIFIED THROUGHOUT THE BUILDING SYSTEM DOCUMENTATION AS THE BUILDER.

HEATING CALCULATIONS

A ROOM BY ROOM HEAT LOSS CALCULATION IS PERFORMED FOR EVERY STRUCTURE BUILT ON A CONTRACT SPECIFIC BASIS, USING THE ISA-H-82 HEAT LOSS CALCULATION GUIDE, THIRD EDITION-MARCH 2004, AS THE SOURCE OF AUTHORITY.

INDOOR DESIGN TEMPERATURE- +70°
OUTDOOR DESIGN TEMPERATURE- -20°
DESIGN TEMPERATURE DIFF.- -90° WITH 15 MPH WINDS

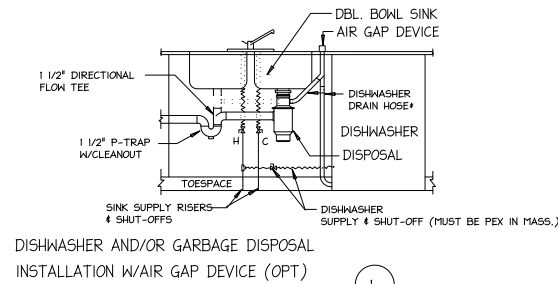
ROOM HEATING REQUIREMENTS:

TOTAL BTUH LOSS @ DESIGN TEMPERATURE: THE SUM OF BTUH LOSS FOR WALLS, GLASS, CEILING, FLOOR AND INFILTRATION OF ROOM BEING CALCULATED.

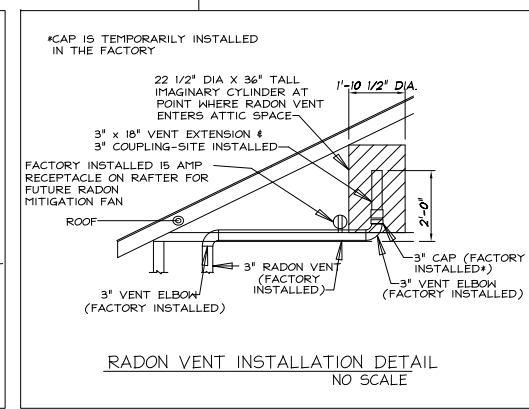
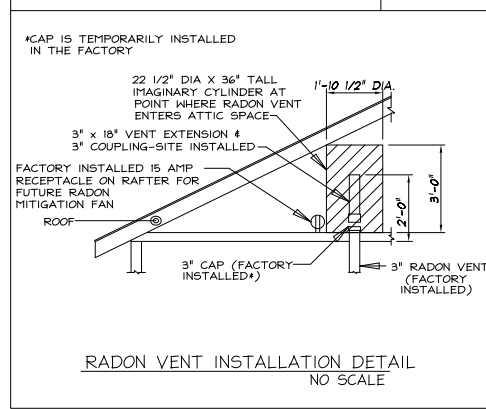
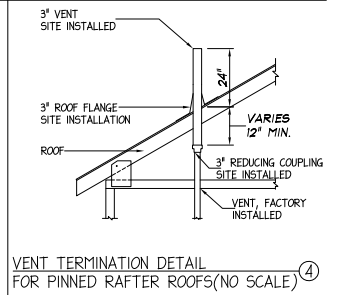
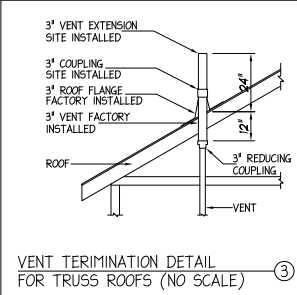
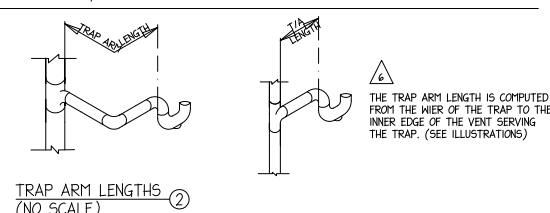
TOTAL WATTS LOSS: TOTAL BTUH @ DESIGN TEMPERATURE DIVIDED BY 3.41 BTUH/WATT-TOTAL WATTS FOR ROOM BEING CALCULATED.

QUANTITY OF HEAT:
HOT WATER: TOTAL BTUH @ DESIGN TEMPERATURE DIVIDED BY 5501 BTUH/LIN. FT. OF BASEBOARD-TOTAL LENGTH OF HOT WATER BASEBOARD REQUIRED FOR ROOM BEING CALCULATED.
BASED ON 1 GPM FLOW RATE AT 180° WATER TEMPERATURE & 65° F ENTERING AIR

ELECTRIC: TOTAL WATTS LOSS DIVIDED BY 250 WATTS/LIN. FT. OF BASEBOARD-TOTAL LENGTH OF ELECTRIC BASEBOARD REQUIRED FOR ROOM BEING CALCULATED.



*THE PORTION OF THE DISHWASHER DRAIN HOSE FROM THE AIR GAP DEVICE WILL BE ATTACHED TO EITHER THE INLET PORT IN THE GARBAGE DISPOSAL PROVIDED FOR THAT PURPOSE, OR TO A WASTE TEE INSTALLED ABOVE THE KIT. SINK CONT.WASTE TEE & P-TRAP, IF NO GARBAGE DISPOSAL IS INSTALLED.



T.R. ARNOLD & ASSOCIATES, INC. 1000 Pleasant St., Eliot, ME 05603
Maine
Accredited Evaluation and Inspection Agency
This document is certified as being in conformance with the LEED v4.0 Building for Operational Performance and Carbon Footprint Requirements.
Aug 8, 2017
Approved by *Karen Ullate*
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PERMIT PLANS
I HAVE REVIEWED THESE PLANS FOR ACCURACY AND HEREBY AUTHORIZE N.E.H. TO DO THE FOLLOWING:
 THERE ARE NO CHANGES TO THIS PLAN. RELEASE THE JOB FOR PRODUCTION.
 REVISE THE PLANS AS NOTED AND RELEASE THESE PLANS FOR PRODUCTION.
 REVISE THESE PLANS AS NOTED AND SEND THE ANOTHER SET OF PERMIT PLANS TO REVIEW.

Signature _____
NEW ENGLAND HOMES INDEPENDENT BUILDERS DAILY AUTHORIZED AGENT PER CONTRACT AGREEMENT
Date _____

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CMH, INC
Structural Steel
Colonial
LEED SHEET

M-1

Drawn:	11256
Revisions:	1
RTA:	9/29/17
RTA:	4/10/17
RTA:	4/10/17
RTA:	8/29/17
RTA:	8/29/17
RTA:	7/28/17

NOTE: N.E.H. & ALL MATERIAL SHIPPED HEREON FOR THE SOLE COMPLETION OF THE ASSEMBLED PRODUCT IS UNWARRANTED AND THE SOLE RESPONSIBILITY OF THE BUYER UNDER WRITING TO INSURE AND RISK.