Reviewed for Code Compliance
Inspections Division
Approved with Conditions
Date: 11/15/17

MECHANICAL DRAWING LIST

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

LEDGEND

- SANITARY LINE
- VENT LINE
- DCW LINE
- DHW LINE
- PLUMBING RISER
- 'P' TRAP

△ GENERAL NOTES

1. POTABLE WATER LINES SHALL BE TYPE "L" COPPER, OR CROSS-LINKED POLYETHYLENE (PEX) TUBING. FORCED HOT WATER HEAT LINES SHALL BE TYPE "M" COPPER, OR CROSS-LINKED POLYETHYLENE (PEX) TUBING.
2. SOLDER FOR COPPER WATER LINES TO BE LEAD FREE.
3. ALL DRAIN, WASTE AND VENT LINES ARE P.V.C. SCHEDULE 40.
4. ALL HORIZONTAL TO HORIZONTAL AND VERTICLE TO HORIZONTAL CONNECTIONS TO BE MADE WITH LONG TURN OR TEE WYE FITTINGS.
5. ALL HORIZONTAL TO VERTICLE CONNECTIONS TO BE MADE WITH REGULAR SWEEP OR SANITARY FITTINGS.
6. 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.	MSPC
1 1/2"	5'-0"
2"	6'-0"
3"	8'-0"
4"	10'-0"

7. SLOPE OF HORIZONTAL DRAINAGE PIPING NOT LESS THAN 1/4" PER FOOT FOR 3"Φ OR LESS PIPE.
8. PLUMBING IS CUSTOM INSTALLED AND SUPPORTED BY BORED HOLES IN THE STACK WALL.
9. DWV SUPPORT STRAPPING IS 3/4" WIDE MIN.
10. HORIZONTAL DRAIN LINES SUPPORTED AT 4'-0" MIN. INTERVALS FOR 3"Φ PIPE AND 3'-0" MIN. INTERVALS FOR 1 1/2" AND 2"Φ PIPE.
11. ALL VENTS THRU ROOF SHALL INCREASE TO 3"Φ FROM 24" ABOVE TO 12" BELOW ROOFLINE.(SEE DETAILS 3&4)
12. ALL FUTURE VENTS TO BE CAPPED OFF AND LABELED.
13. ALL HORIZONTAL VENT BRANCH PIPING SHALL BE LOCATED A MINIMUM OF SIX INCHES(6") ABOVE FLOOD LEVEL OF THE HIGEST FIXTURE SERVED.
14. 1.6 GAL. WATER CONSERVING TOILETS INSTALLED WHERE REQUIRED BY CODE.
15. ANTI SCALD DIVERTER ASSEMBLIES SHALL BE INSTALLED ON ALL SHOWER & COMBINATION TUB/SHOWER UNITS..
16. ALL EXTERIOR HOSE BIBBS (INSTALLED ON SITE BY THE BUILDER) TO BE ANTI-SYPHON HOSE BIBBS.
17. HOT WATER HEATER IS NOT SUPPLIED OR INSTALLED BY THE COMPANY. HOT WATER HEATER IS TO BE SUPPLIED AND INSTALLED (IN COMPLIANCE WITH APPLICABE PLUMBING CODES) BY THE BUILDER.
18. 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.
19. CAPES AND GAMBRELS WITH UNFINISHED 2nd FLOORS SHALL HAVE ALL FIXTURES, MATERAL AND CONNECTIONS ABOVE THE 2nd FLOOR DECKING SUPPLIED AND INSTALLED (IN COMPLIANCE WITH APPLICABLE PLUMBING CODES) BY THE BUILDER.
20. 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.
21. 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 CONTRACTURAL PURCHASER OF GOODS FROM THE COMPANY WILL BE IDENTIFIED THROUGHOUT THE BUILDING SYSTEM DOCUMENTATION AS THE BUILDER.

DISHWASHER AND/OR GARBAGE DISPOSAL INSTALLATION W/AIR GAP DEVICE (OPT) 1

*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.

6 THE TRAP ARM LENGTH IS COMPUTED FROM THE WIER OF THE TRAP TO THE INNER EDGE OF THE VENT SERVING THE TRAP. (SEE ILLUSTRATIONS)

TRAP ARM LENGTHS (NO SCALE) 2

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 MANUFACTURES 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 SHIP 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) THROUGHT 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.

HEATING CALCULATIONS

A ROOM BY ROOM HEAT LOSS CALCULATION IS PERFORMED FOR EVERY STRUCTURE BUILT, ON A CONTRACT SPECIFIC BASIS. USING THE IBA-H-#21 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 550* BTUH/LIN. FT. OF BASEBOARD=TOTAL LENGTH OF HOT WATER BASEBOARD REQUIRED FOR 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.

VENT TERIMINATION DETAIL FOR TRUSS ROOFS (NO SCALE) 3

VENT TERMINATION DETAIL FOR PINNED RAFTER ROOFS(NO SCALE) 4

RADON VENT INSTALLATION DETAIL
NO SCALE

RADON VENT INSTALLATION DETAIL
NO SCALE

T.R. ARNOLD & ASSOCIATES, INC. 4703 Chester Dr. Elkhart, IN 46516
State(s) MAINE
Accredited Evaluation and Inspection Agency
This document is certified as being in conformance with LISTED CODES
Aug 8, 2017
Approved By
Approval of this document does not authorize or approve any omission or deviation from the requirements of applicable State Laws.
TRA APPROVAL LIMITED TO FACTORY-BUILT MODULES ONLY.

Builder to check appropriate box, sign, date, and return to NEH. Plans not checked, signed and dated will be returned to Builder and subject to removal from production scheduling.

PERMIT PLANS

I HAVE REVIEWED THESE PLANS FOR ACCURACY AND HEREBY AUTHORIZE N.E.H. TO DO THE

- ☐ 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 ME ANOTHER SET OF PERMIT PLANS TO RE

Signature

NEW ENGLAND HOMES INDEPENDENT BUILDERS DULY AUTHORIZED AGENT PER CONTRACT AGREEMENT

NOTE: ANY & ALL Material shipped boxes for the site completion of the manufactured product is ULTIMATELY the SOLE RESPONSIBILITY OF THE BUILDER LISTED BELOW to haul and dispose.

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CMH, INC
Structure Model: COLONIAL
N.T.S.
LEED SHEET

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