

MASSACHUSETTS DATA PLATE ADDENDUM

Water Connection Directions; Installation Instruction

Drain Connection Directions; Installation Instruction

Floor Loads: Live; 40 PSF **Dead;** 10 PSF

Electrical Instructions; Installation Instruction

Electrical Warnings; Installation Instruction

Methods of Assembly or Joining Multiple Units;

Field Installation Instruction/Plan Set

Height Story Limitations 40 feet/ three stories

Floor Area 996 sf - 1st, 996 sq ft - 2nd - C11426 ABCD

Min. Side Yard Required for Fire Rating 5 feet



Leading Manufacturers of Custom Modular Homes Since 1961

277 LOCUST ST. SUITE B, DOVER, NEW HAMPSHIRE 03820, TELEPHONE 603-436-8830 FAX 603-431-8540

Light and Vent Calculations Worksheet

Job Name: **ADVANCED DEVELOPMENT, INC**
 Window Manufacturer: **Mathews Brothers**

Job No: **11426**
 Date: **05/27/21**

All windows listed are min DP +50/-50 * = EGRESS WINDOW

KITCHEN/NOOK 325						LIVING/ENTRY 259					
	Light	Vent	RO Wid	RO Hgt	Sq. Ft.		Light	Vent	RO Wid	RO Hgt	Sq. Ft.
MBSHDH3236	4.38	2.27	32	36	8	MBSHDH4062*	11.59	6.039	40	62	17.2
PGD72X82 1/2-2 panel-std	22.55	11.28	72	82.5	40	MBSHDH4062*	11.59	6.039	40	62	17.2
MBSHDH4062*	11.59	6.039	40	62	17.2	3-0x6-8 S210-2/12"SL-(S263SL)	4	0	63.625	82.5	36.4518
MBSHDH4062*	11.59	6.039	40	62	17.2						

Total Prov. 50.11 25.628
 Total Req. 26 13
 L/V Check: Passed Passed
 Total RO SF: 82.4

Total Prov. 27.18 12.078
 Total Req. 20.72 10.36
 L/V Check: Passed Passed
 Total RO SF: 70.9

BATH/2 33					
	Light	Vent	RO Wid	RO Hgt	Sq. Ft.
MBSHDH3236	4.38	2.27	32	36	8

MUD 46					
	Light	Vent	RO Wid	RO Hgt	Sq. Ft.
2-8X6-8 S210HD	0	0	33.625	82.5	19.26

Total Prov. 4.38 2.27
 Total Req. 2.64 1.32
 L/V Check: Passed Passed
 Total RO SF: 8.0

Total Prov. 0 0
 Total Req. 3.68 1.84
 L/V Check: **FAILED** **FAILED**
 Total RO SF: 19.3

DINING 163					
	Light	Vent	RO Wid	RO Hgt	Sq. Ft.
MBSHDH4062*	11.59	6.039	40	62	17.2
MBSHDH4062*	11.59	6.039	40	62	17.2
MBSHDH4062*	11.59	6.039	40	62	17.2

BEDROOM 2 139					
	Light	Vent	RO Wid	RO Hgt	Sq. Ft.
MBSHDH4060*	11.6	5.8	40	60	16.6
MBSHDH4060*	11.6	5.8	40	60	16.6
MBSHDH4060*	11.6	5.8	40	60	16.6

Total Prov. 34.77 18.117
 Total Req. 12.24 6.12
 L/V Check: Passed Passed
 Total RO SF: 51.7

Total Prov. 34.8 17.4
 Total Req. 11.12 5.56
 L/V Check: Passed Passed
 Total RO SF: 49.8

BEDROOM 3 **122**

	Light	Vent	RO Wid	RO Hgt	Sq. Ft.
MBSHDH4060*	11.6	5.8	40	60	16.6
MBSHDH4060*	11.6	5.8	40	60	16.6

Total Prov. 23.2 11.6
 Total Req. 9.76 4.88
 L/V Check: Passed Passed
 Total RO SF: 33.2

M. BATH **73**

	Light	Vent	RO Wid	RO Hgt	Sq. Ft.
MBSHDH3236	4.38	2.27	32	36	8

Total Prov. 4.38 2.27
 Total Req. 5.84 2.92
 L/V Check: *FAILED** **FAILED**
 Total RO SF: 8.0

BATH **60**

	Light	Vent	RO Wid	RO Hgt	Sq. Ft.
MBSHDH3236	4.38	2.27	32	36	8

Total Prov. 4.38 2.27
 Total Req. 4.8 2.4
 L/V Check: *FAILED** **FAILED**
 Total RO SF: 8.0

M. BEDROOM **201**

	Light	Vent	RO Wid	RO Hgt	Sq. Ft.
MBSHDH4060*	11.6	5.8	40	60	16.6
MBSHDH4060*	11.6	5.8	40	60	16.6
MBSHDH4060*	11.6	5.8	40	60	16.6

Total Prov. 34.8 17.4
 Total Req. 16.08 8.04
 L/V Check: Passed Passed
 Total RO SF: 49.8

BEDROOM 4 **94**

	Light	Vent	RO Wid	RO Hgt	Sq. Ft.
MBSHDH4060*	11.6	5.8	40	60	16.6

Total Prov. 11.6 5.8
 Total Req. 7.52 3.76
 L/V Check: Passed Passed
 Total RO SF: 16.6



REScheck Software Version 4.7.1 Compliance Certificate

Project C11426

Energy Code: **Massachusetts Energy Code**
 Location: **Raynham, Massachusetts**
 Construction Type: **Single-family**
 Project Type: **New Construction**
 Conditioned Floor Area: **1,992 ft²**
 Glazing Area: **15%**
 Climate Zone: **5 (6346 HDD)**
 Permit Date:
 Permit Number:

Construction Site:
 Lot 0 King Philip Street
 Raynham, MA 02767

Owner/Agent:
 Spec

Designer/Contractor:
 Daniel Andrade
 Advanced Development Inc
 P.O. Box 278
 East Taunton, MA 02718

Compliance: Passes using UA trade-off

Compliance: **9.8% Better Than Code** Maximum UA: **287** Your UA: **259**

The % Better or Worse Than Code Index reflects how close to compliance the house is based on code trade-off rules. It DOES NOT provide an estimate of energy use or cost relative to a minimum-code home.

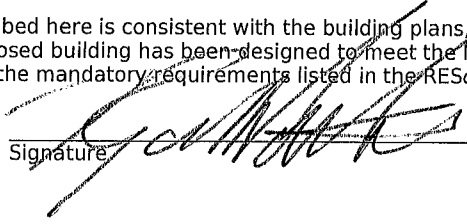
Envelope Assemblies

Assembly	Gross Area or Perimeter	Cavity R-Value	Cont. R-Value	U-Factor	UA
Ceiling 1: Flat Ceiling or Scissor Truss Comment: R-49 (Blown In) Site supplied and installed on site by Construct. Sup. Licensee	996	49.0	0.0	0.026	26
Wall 1 - 2nd Floor: Wood Frame, 16" o.c.	1,146	21.0	0.0	0.057	57
Window 1 - DH: Vinyl/Fiberglass Frame:Double Pane with Low-E	133			0.260	35
Window 2 - DH TEMP: Vinyl/Fiberglass Frame:Double Pane with Low-E	16			0.280	4
Wall 2 - 1st Floor: Wood Frame, 16" o.c.	1,098	21.0	0.0	0.057	49
Window 3 - DH: Vinyl/Fiberglass Frame:Double Pane with Low-E	103			0.260	27
Window 4 - DH TEMP: Vinyl/Fiberglass Frame:Double Pane with Low-E	33			0.280	9
Door 1 - SLIDER: Glass	40			0.260	10
Door 2 - FRONT DOOR: Solid	22			0.140	3
Door 3 - FRONT DOOR S/L: Glass	15			0.190	3
Door 4 - garage: Solid	19			0.140	3
Floor 1: All-Wood Joist/Truss:Over Unconditioned Space Comment: pplied and Installed on site by Construct. Sup. Licensee. Min. R-Value shown.	996	30.0	0.0	0.033	33

Compliance Statement: The proposed building design described here is consistent with the building plans, specifications, and other calculations submitted with the permit application. The proposed building has been designed to meet the Massachusetts Energy Code requirements in REScheck Version 4.7.1 and to comply with the mandatory requirements listed in the REScheck Inspection Checklist.

Ryan Antonioli - NEH
Name - Title

Signature



Date

JUNE 28/2021

Project Notes:

1. Insulation Location listed as Supplied and installed on site by (CSL) "Construction Supervisor" Licensee; Not responsibility of New England homes.
2. All walls at energy envelope are caulked/sealed to 2018 IECC.



REScheck Software Version 4.7.1

Inspection Checklist

Energy Code: Massachusetts Energy Code



Requirements: 0.0% were addressed directly in the REScheck software

Text in the "Comments/Assumptions" column is provided by the user in the REScheck Requirements screen. For each requirement, the user certifies that a code requirement will be met and how that is documented, or that an exception is being claimed. Where compliance is itemized in a separate table, a reference to that table is provided.

Section # & Req.ID	Pre-Inspection/Plan Review	Plans Verified Value	Field Verified Value	Complies?	Comments/Assumptions
103.1, 103.2 [PR1] ¹	Construction drawings and documentation demonstrate energy code compliance for the building envelope. Thermal envelope represented on construction documents.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
103.1, 103.2, 403.7 [PR3] ¹	Construction drawings and documentation demonstrate energy code compliance for lighting and mechanical systems. Systems serving multiple dwelling units must demonstrate compliance with the IECC Commercial Provisions.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
302.1, 403.7 [PR2] ²	Heating and cooling equipment is sized per ACCA Manual S based on loads calculated per ACCA Manual J or other methods approved by the code official.	Heating: Btu/hr _____ Cooling: Btu/hr _____	Heating: Btu/hr _____ Cooling: Btu/hr _____	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
103.1 [PR4] ¹	Solar-Ready Roof: New detached one- and two-family dwellings, and multiple single-family dwellings (townhouses) with >= 600 ft ² (55.74 m ²) of roof area oriented between 110 degrees and 270 degrees of true north comply with sections AU103.2 through AU103.8 (RB103.2 through RB103.8).			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	

Additional Comments/Assumptions:

1	High Impact (Tier 1)	2	Medium Impact (Tier 2)	3	Low Impact (Tier 3)
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Section # & Req.ID	Foundation Inspection	Complies?	Comments/Assumptions
303.2.1 [FO11] ² 	A protective covering is installed to protect exposed exterior insulation and extends a minimum of 6 in. below grade.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
403.9 [FO12] ² 	Snow- and ice-melting system controls installed.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	

Additional Comments/Assumptions:

1 High Impact (Tier 1)	2 Medium Impact (Tier 2)	3 Low Impact (Tier 3)
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Section # & Req.ID	Framing / Rough-In Inspection	Plans Verified Value	Field Verified Value	Complies?	Comments/Assumptions
303.1.3 [FR4] ¹ ☉	U-factors of fenestration products are determined in accordance with the NFRC test procedure or taken from the default table.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
402.1.1, 402.3.1, 402.3.3, 402.5 [FR2] ¹ ☉	Glazing U-factor (area-weighted average).	U-____	U-____	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	See the Envelope Assemblies table for values.
402.1.1, 402.3.2, 402.3.3, 402.5 [FR3] ¹ ☉	Glazing SHGC value (area-weighted average).	SHGC:____	SHGC:____	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	See the Envelope Assemblies table for values.
402.1.1, 402.3.4 [FR1] ¹ ☉	Door U-factor.	U-____	U-____	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	See the Envelope Assemblies table for values.
402.4.1.1 [FR23] ¹ ☉	Air barrier and thermal barrier installed per manufacturer's instructions.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
402.4.3 [FR20] ¹ ☉	Fenestration that is not site built is listed and labeled as meeting AAMA /WDMA/CSA 101/I.S.2/A440 or has infiltration rates per NFRC 400 that do not exceed code limits.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
402.4.5 [FR16] ²	IC-rated recessed lighting fixtures sealed at housing/interior finish and labeled to indicate ≤2.0 cfm leakage at 75 Pa.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
403.3.1 [FR12] ¹ ☉	Supply and return ducts in attics insulated ≥ R-8 where duct is ≥ 3 inches in diameter and ≥ R-6 where < 3 inches. Supply and return ducts in other portions of the building insulated ≥ R-6 for diameter ≥ 3 inches and R-4.2 for < 3 inches in diameter.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
403.3.5 [FR15] ³ ☉	Building cavities are not used as ducts or plenums.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
403.4 [FR17] ² ☉	HVAC piping conveying fluids above 105 °F or chilled fluids below 55 °F are insulated to ≥R-3.	R-____	R-____	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
403.4.1 [FR24] ¹ ☉	Protection of insulation on HVAC piping.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	

1	High Impact (Tier 1)	2	Medium Impact (Tier 2)	3	Low Impact (Tier 3)
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Section # & Req.ID	Framing / Rough-In Inspection	Plans Verified Value	Field Verified Value	Complies?	Comments/Assumptions
403.5.3 [FR18] ² 	Hot water pipes are insulated to $\geq R-3$.	R-_____	R-_____	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
403.6 [FR19] ²	Each dwelling unit of a residential building provided with continuously operating exhaust, supply or balanced mechanical ventilation that has been site verified to meet a minimum airflow per Section N1103.6.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	

Additional Comments/Assumptions:

1	High Impact (Tier 1)	2	Medium Impact (Tier 2)	3	Low Impact (Tier 3)
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Section # & Req.ID	Insulation Inspection	Plans Verified Value	Field Verified Value	Complies?	Comments/Assumptions
303.1 [IN13] ² 	All installed insulation is labeled or the installed R-values provided.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
303.2 [IN4] ¹	Wall insulation is installed per manufacturer's instructions.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
303.2, 402.2.7 [IN2] ¹ 	Floor insulation installed per manufacturer's instructions and in substantial contact with the underside of the subfloor, or floor framing cavity insulation is in contact with the top side of sheathing, or continuous insulation is installed on the underside of floor framing and extends from the bottom to the top of all perimeter floor framing members.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
402.1.1, 402.2.5, 402.2.6 [IN3] ¹ 	Wall insulation R-value. If this is a mass wall with at least 1/2 of the wall insulation on the wall exterior, the exterior insulation requirement applies (FR10).	R- _____ <input type="checkbox"/> Wood <input type="checkbox"/> Mass <input type="checkbox"/> Steel	R- _____ <input type="checkbox"/> Wood <input type="checkbox"/> Mass <input type="checkbox"/> Steel	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	See the Envelope Assemblies table for values.
402.1.1, 402.2.6 [IN1] ¹ 	Floor insulation R-value.	R- _____ <input type="checkbox"/> Wood <input type="checkbox"/> Steel	R- _____ <input type="checkbox"/> Wood <input type="checkbox"/> Steel	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	See the Envelope Assemblies table for values.

Additional Comments/Assumptions:

1	High Impact (Tier 1)	2	Medium Impact (Tier 2)	3	Low Impact (Tier 3)
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Section # & Req.ID	Final Inspection Provisions	Plans Verified Value	Field Verified Value	Complies?	Comments/Assumptions
303.1.1.1, 303.2 [F12] ¹	Ceiling insulation installed per manufacturer's instructions. Blown insulation marked every 300 ft ² .			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
303.3 [F118] ³	Manufacturer manuals for mechanical and water heating systems have been provided.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
401.3 [F17] ²	Compliance certificate posted.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
402.1.1, 402.2.1, 402.2.2, 402.2.6 [F11] ¹	Ceiling insulation R-value.	R-____ <input type="checkbox"/> Wood <input type="checkbox"/> Steel	R-____ <input type="checkbox"/> Wood <input type="checkbox"/> Steel	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	See the Envelope Assemblies table for values.
402.2.3 [F122] ²	Vented attics with air permeable insulation include baffle adjacent to soffit and eave vents that extends over insulation.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
402.2.4 [F13] ¹	Attic access hatch and door insulation \geq R-value of the adjacent assembly.	R-____	R-____	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
402.4.1.2 [F17] ¹	Blower door test @ 50 Pa. \leq 5 ach in Climate Zones 1-2, and \leq 3 ach in Climate Zones 3-8.	ACH 50 = ____	ACH 50 = ____	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
403.1.1 [F19] ²	Programmable thermostats installed for control of primary heating and cooling systems and initially set by manufacturer to code specifications.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
403.1.2 [F110] ²	Heat pump thermostat installed on heat pumps.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
403.2 [F126] ²	Hot water boilers supplying heat through one- or two-pipe heating systems have outdoor setback control to lower boiler water temperature based on outdoor temperature.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
403.3.2.1 [F124] ¹	Air handler leakage designated by manufacturer at \leq 2% of design air flow.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	


1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Section # & Req.ID	Final Inspection Provisions	Plans Verified Value	Field Verified Value	Complies?	Comments/Assumptions
403.3.3 [FI27] ¹	Ducts are pressure tested to determine air leakage with either: Rough-in test: Total leakage measured with a pressure differential of 0.1 inch w.g. across the system including the manufacturer's air handler enclosure if installed at time of test. Postconstruction test: Total leakage measured with a pressure differential of 0.1 inch w.g. across the entire system including the manufacturer's air handler enclosure. Post-construction or rough-in testing and verification done by a HERS Rater, HERS Rating Field Inspector, or an applicable BPI Certified Professional.	_____ cfm/100 ft ²	_____ cfm/100 ft ²	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
403.3.4 [FI4] ¹	Duct tightness test result of <=4 cfm/100 ft ² across the system or <=3 cfm/100 ft ² without air handler @ 25 Pa. For rough-in tests, verification may need to occur during Framing Inspection.	_____ cfm/100 ft ²	_____ cfm/100 ft ²	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
403.5.1 [FI11] ²	Circulating service hot water systems have automatic or accessible manual controls.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
403.5.1.1 [FI28] ²	Heated water circulation systems have a circulation pump. The system return pipe is a dedicated return pipe or a cold water supply pipe. Gravity and thermosyphon circulation systems are not present. Controls for circulating hot water system pumps start the pump with signal for hot water demand within the occupancy. Controls automatically turn off the pump when water is in circulation loop is at set-point temperature and no demand for hot water exists.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
403.5.1.2 [FI29] ²	Electric heat trace systems comply with IEEE 515.1 or UL 515. Controls automatically adjust the energy input to the heat tracing to maintain the desired water temperature in the piping.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
403.5.2 [FI30] ²	Water distribution systems that have recirculation pumps that pump water from a heated water supply pipe back to the heated water source through a cold water supply pipe have a demand recirculation water system. Pumps have controls that manage operation of the pump and limit the temperature of the water entering the cold water piping to 104°F.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Section # & Req.ID	Final Inspection Provisions	Plans Verified Value	Field Verified Value	Complies?	Comments/Assumptions
403.5.4 [FI31] ²	Drain water heat recovery units tested in accordance with CSA B55.1. Potable water-side pressure loss of drain water heat recovery units < 3 psi for individual units connected to one or two showers. Potable water-side pressure loss of drain water heat recovery units < 2 psi for individual units connected to three or more showers.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
403.6.1 [FI25] ²	All mechanical ventilation system fans not part of tested and listed HVAC equipment meet efficacy and air flow limits.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
403.6.2 [FI32] ³	Installed performance of the mechanical ventilation system tested and verified by a HERS Rater, HERS Rating Field Inspector, or an applicable BPI Certified Professional, and measured using a flow hood, flow grid, or other airflow measuring device in accordance with either RESNET Standard Chapter 8 or ACCA Standard 5.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
403.6.3 [FI33] ³	Ventilation devices and equipment are tested and certified by Air Movement and Control Association ("AMCA") or Home Ventilating Institute ("HVI") and the certification label is affixed to product. Where multiple duct sizes and/or exterior hoods are standard options, the minimum size shall not be used.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
403.6.4 [FI34] ³	Sound ratings for fans used for whole building ventilation are rated at a maximum of one sone.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
403.6.5 [FI35] ³	Owner and the occupant of the dwelling unit provided with information on the ventilation design and systems installed, including instructions on the proper operation and maintenance of the ventilation systems. Ventilation controls shall be labeled with regard to their function.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	

1	High Impact (Tier 1)	2	Medium Impact (Tier 2)	3	Low Impact (Tier 3)
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Section # & Req.ID	Final Inspection Provisions	Plans Verified Value	Field Verified Value	Complies?	Comments/Assumptions
403.6.6 [FI36] ³	All ventilation air inlets are unobstructed and located a minimum of 10 feet from other vent openings that constitute known contamination sources. Outdoor forced air inlets are covered with rodent screens.. A whole house mechanical ventilation system does not extract air from an unconditioned basement unless approved by a registered design professional. Where wall inlet or exhaust vents are < 7 feet above finished grade in the area of the venting an identification plate is permanently mounted to the exterior of the building at a >= 8 feet above grade directly in line with the vent terminal.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
404.1 [FI6] ¹	75% of lamps in permanent fixtures or 75% of permanent fixtures have high efficacy lamps. Does not apply to low-voltage lighting.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
404.1.1 [FI23] ³ 	Fuel gas lighting systems have no continuous pilot light.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	

Additional Comments/Assumptions:

1	High Impact (Tier 1)	2	Medium Impact (Tier 2)	3	Low Impact (Tier 3)
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Massachusetts Energy Code Energy Efficiency Certificate

Insulation Rating	R-Value
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Above-Grade Wall 21.00

Below-Grade Wall 0.00

Floor 30.00

Ceiling / Roof 49.00

Ductwork (unconditioned spaces): _____

Glass & Door Rating	U-Factor	SHGC
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Window 0.26

Door 0.26

Heating & Cooling Equipment	Efficiency
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Heating System: _____

Cooling System: _____

Water Heater: _____

Name: _____ Date: _____

Comments



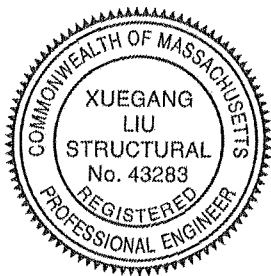
MiTek USA, Inc.
16023 Swingley Ridge Rd
Chesterfield, MO 63017
314-434-1200

Re: 2106CC11426NEH
NEH11426 - ADVANCED DEV.

The truss drawing(s) referenced below have been prepared by MiTek USA, Inc. under my direct supervision based on the parameters provided by LaValley Building Supply.

Pages or sheets covered by this seal: I46431122 thru I46431125

My license renewal date for the state of Massachusetts is June 30, 2022.



Xm Liu

June 4, 2021

Liu, Xuegang

IMPORTANT NOTE: The seal on these truss component designs is a certification that the engineer named is licensed in the jurisdiction(s) identified and that the designs comply with ANSI/TPI 1. These designs are based upon parameters shown (e.g., loads, supports, dimensions, shapes and design codes), which were given to MiTek or TRENCO. Any project specific information included is for MiTek's or TRENCO's customers file reference purpose only, and was not taken into account in the preparation of these designs. MiTek or TRENCO has not independently verified the applicability of the design parameters or the designs for any particular building. Before use, the building designer should verify applicability of design parameters and properly incorporate these designs into the overall building design per ANSI/TPI 1, Chapter 2.

Job	Truss	Truss Type	Qty	Ply	NEH11426 - ADVANCED DEV.	I46431122
2106CC11426NEH	T1	MONO TRUSS	36	1		

LaValley Building Supply, Inc., Newport, NH 03773

Job Reference (optional)

8.430 s May 12 2021 MITek Industries, Inc. Fri Jun 4 13:16:03 2021 Page 1
 ID:KVcOUBPI_kN58ZlhvG7iv8zrocN-fMqMZBpyW0fuVKisVnG8sZvUDpK_woYVYVQOALyz9f6Q

-1-0-0	9-9-14	13-8-0	13-9-8
1-0-0	9-9-14	3-10-2	0-1-8

Scale: 1/4"=1'

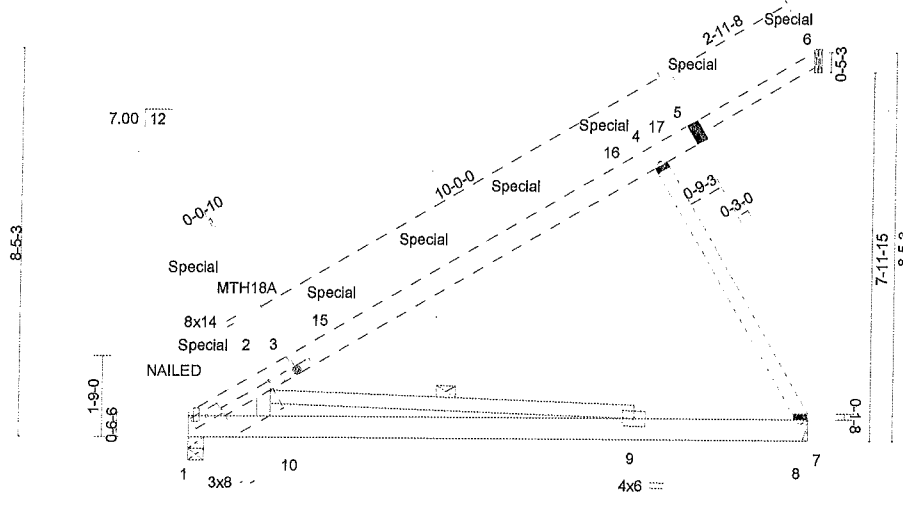


Plate Offsets (X,Y)-- [2:0-0,12,0-2-4], [3:0-0-1,0-0-2]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	40.0	Plate Grip DOL	1.15	TC	0.87	Vert(LL)	-0.26 9-10	>615	360	MT20	169/123
Snow (Pf/Pg)	26.9/35.0	Lumber DOL	1.15	BC	0.83	Vert(CT)	-0.57 9-10	>283	240	MT18HS	169/123
TCDL	10.0	Rep Stress Incr	NO	WB	0.90	Horz(CT)	0.01 8	n/a	n/a		
BCLL	0.0 *	Code IBC2015/TPI2014		Matrix-MS							
BCDL	10.0									Weight: 80 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.1 *Except*
 1-3: 2x6 SPF No.1 or 2x6 SPF No.2 or 2x6 SPF-S No.2
 5-6: 2x4 SPF No.1 or 2x4 SPF No.2 or 2x4 SPF-S No.2
 BOT CHORD 2x6 SP No.1
 WEBS 2x4 SPF No.1 or 2x4 SPF No.2 or 2x4 SPF-S No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-1-4 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
 WEBS 1 Row at midpt 2-9

REACTIONS.

(size) 1=0-4-0, 8=Mechanical, 6=Mechanical
 Max Horz 1=230(LC 20), 6=230(LC 20)
 Max Uplift 1=-69(LC 16), 8=-137(LC 16)
 Max Grav 1=1166(LC 2), 8=756(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

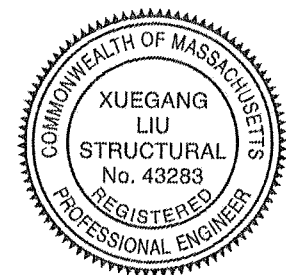
TOP CHORD 1-2=-2026/0, 2-3=-858/9, 3-15=-809/17, 15-16=-601/49, 4-16=-381/53, 4-17=-395/60,
 5-17=-374/60, 5-6=-271/76
 BOT CHORD 1-10=-264/1667, 9-10=-218/1674, 8-9=-103/296
 WEBS 4-8=-616/214, 2-10=0/625, 2-9=-1386/117

REQUIRED FIELD JOINT CONNECTIONS

- Maximum Compression (lb)/ Maximum Tension (lb)/ Maximum Shear (lb)/ Maximum Moment (lb-in)
 4=616/214/0/0, 5=346/65/131/0, 8=616/214/0/0

NOTES-

- Wind: ASCE 7-10; Vult=135mph Vasd=107mph; TCDL=6.0psf; BCDL=6.0psf; h=28ft; B=36ft; L=28ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2) 0-3-8 to 3-3-8, Interior(1) 3-3-8 to 13-7-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-10; Pr=40.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=35.0 psf (ground snow); Pf=26.9 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss is not designed to support a ceiling and is not intended for use where aesthetics are a consideration.
- All plates are MT20 plates unless otherwise indicated.
- See HINGE PLATE DETAILS for plate placement.
- Provisions must be made to prevent lateral movement of hinged member(s) during transportation.
- All additional member connections shall be provided by others for forces as indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Bearings are assumed to be: Joint 1 SPF-S or SPF No.2 or No.1 crushing capacity of 335 psi, Joint 8 SP DSS or 2400F 2.0E or M 31 crushing capacity of 660 psi, Joint 6 SPF-S or SPF No.2 or No.1 crushing capacity of 335 psi.
- Refer to girder(s) for truss to truss connections.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 137 lb uplift at joint 8.



Xuegang Liu
 June 4, 2021

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



16023 Swingley Ridge Rd
 Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	NEH11426 - ADVANCED DEV.	I46431122
2106CC11426NEH	T1	MONO TRUSS	36	1	Job Reference (optional)	

LaValley Building Supply, Inc., Newport, NH 03773

8.430 s May 12 2021 MiTek Industries, Inc. Fri Jun 4 13:16:03 2021 Page 2
 ID:KVcOUBPL_kN58ZlhvG7iv8zrocN-fMqMZBpyW0fuVKisVnG8sZvUDpK_woYYVQOALyz9f6Q

NOTES-

- 15) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 1. This connection is for uplift only and does not consider lateral forces.
- 16) "NAILED" indicates 3-10d Nails (0.148" x 3") toe-nails per NDS guidelines.
- 17) Special hanger(s) or other connection device(s) shall be provided starting at 1-0-0 from the left end to 13-6-12 sufficient to connect truss(es) to front face of top chord. The design/selection of such special connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

- 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
 - Uniform Loads (plf)
 - Vert: 1-7=-20, 13-14=-74, 6-14=-84
 - Concentrated Loads (lb)
 - Vert: 13=-125

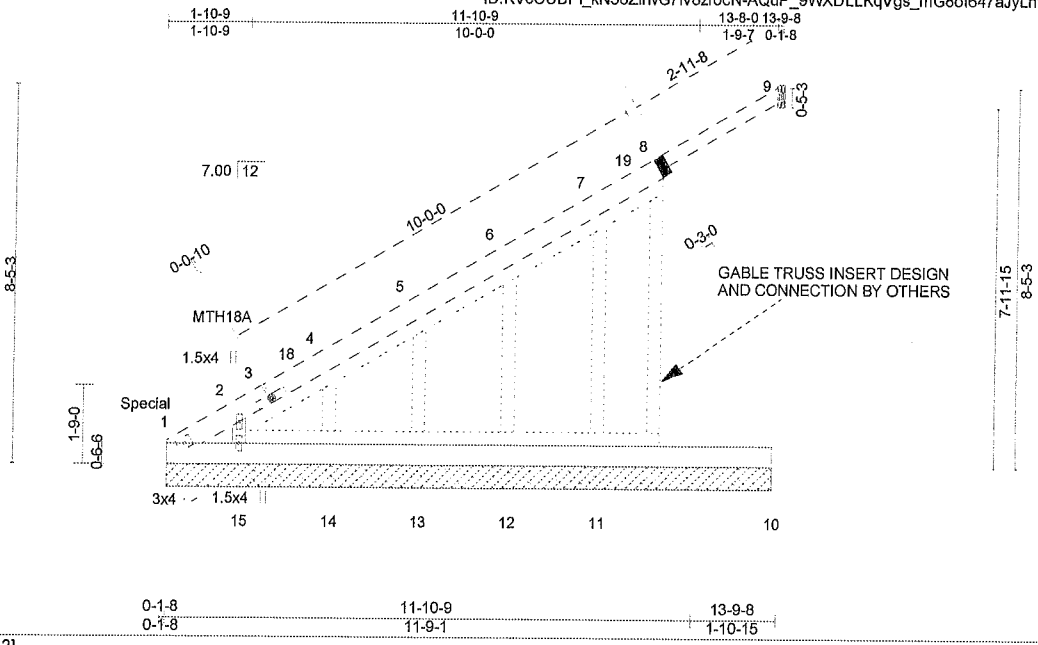
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
 Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSITP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



18023 Swingley Ridge Rd
 Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	NEH11426 - ADVANCED DEV.	I46431123
2106CC11426NEH	G1	GABLE	4	1		

Job Reference (optional)
 8.430 s May 12 2021 MITek Industries, Inc. Fri Jun 4 13:21:10 2021 Page 1
 ID:KVcOUBPI_kN58ZlhvG7iv8zrocN-AQuP_9WXDLLKqVgs_mG8oi647ajLnWk5hGvdfz9f1d
 13-8-0 13-9-8
 1-9-7 0-1-8



Scale = 1:49.2

Plate Offsets (X,Y)-- [3:0-0-1,0-0-2]	
LOADING (psf)	SPACING- 2-0-0
TCLL (roof) 40.0	Plate Grip DOL 1.15
Snow (P/I/Pg) 26.9/35.0	Lumber DOL 1.15
TCDL 10.0	Rep Stress Incr NO
BCLL 0.0 *	Code IBC2015/TPI2014
BCDL 10.0	
	CSI. Matrix-MS
	DEFL. in (loc) l/defl L/d
	Vert(LL) -0.00 10-11 >999 360
	Vert(CT) -0.01 10-11 >999 240
	Horz(CT) -0.00 9 n/a n/a
	PLATES GRIP
	MT20 169/123
	MT18HS 169/123
	Weight: 67 lb FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SPF No.1 or 2x6 SPF No.2 or 2x6 SPF-S No.2 *Except* 8-9: 2x4 SPF No.1 or 2x4 SPF No.2 or 2x4 SPF-S No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2x6 SPF No.1 or 2x6 SPF No.2 or 2x6 SPF-S No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SPF No.1 or 2x4 SPF No.2 or 2x4 SPF-S No.2 *Except* 2-15: 2x4 SPF Stud or 2x4 SPF-S Stud	

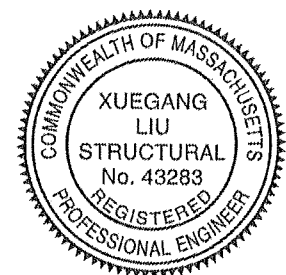
REACTIONS. All bearings 13-6-4 except (jt=length) 9=Mechanical.
 (lb) - Max Horz 1=296(LC 16)
 Max Uplift All uplift 100 lb or less at joint(s) 9, 15, 14, 13, 12 except 11=138(LC 16)
 Max Grav All reactions 250 lb or less at joint(s) 1, 10, 9, 14, 12 except 15=257(LC 2), 13=258(LC 2), 11=579(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-325/305, 2-3=-281/239, 3-18=-275/248, 4-18=-270/257
 WEBS 7-11=-499/194

REQUIRED FIELD JOINT CONNECTIONS - Maximum Compression (lb)/ Maximum Tension (lb)/ Maximum Shear (lb)/ Maximum Moment (lb-in)
 8=69/19/113/0

- NOTES-**
- Wind: ASCE 7-10; Vult=135mph Vasd=107mph; TCDL=6.0psf; BCDL=6.0psf; h=28ft; B=36ft; L=28ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2) 0-1-8 to 3-1-8, Interior(1) 3-1-8 to 13-7-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - TCLL: ASCE 7-10; Pr=40.0 psf (roof live load; Lumber DOL=1.15 Plate DOL=1.15); Pg=35.0 psf (ground snow); Pf=26.9 psf (flat roof snow; Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
 - Unbalanced snow loads have been considered for this design.
 - All plates are MT20 plates unless otherwise indicated.
 - See HINGE PLATE DETAILS for plate placement.
 - Provisions must be made to prevent lateral movement of hinged member(s) during transportation.
 - All additional member connections shall be provided by others for forces as indicated.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - All bearings are assumed to be SPF-S or SPF No.2 or No.1 crushing capacity of 335 psi.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 9.
 - N/A

14) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 160 lb down and 22 lb up at 0-1-8 on top chord. The design/selection of such connection device(s) is the responsibility of others.



Xuegang Liu
 June 4, 2021

LOAD CASE(S) Standard
 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
 Design valid for use only with MITEK® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSITP1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

16023 Swingley Ridge Rd
 Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	NEH11426 - ADVANCED DEV.	I46431123
2106CC11426NEH	G1	GABLE	4	1		

LaValley Building Supply, Inc., Newport, NH 03773

Job Reference (optional)

8.430 s May 12 2021 MiTek Industries, Inc. Fri Jun 4 13:21:10 2021 Page 2
 ID:KVC0UBPI_kN58ZlhvG7iv8zrocN-AQuP_9WXDLLKqVgs_mG8ol647aJyLnWk5hGvdfz9f1d

LOAD CASE(S) Standard

- 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
 - Vert: 1-10=-20, 1-9=-74
- Concentrated Loads (lb)
 - Vert: 1=-125

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
 Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSIRTP1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



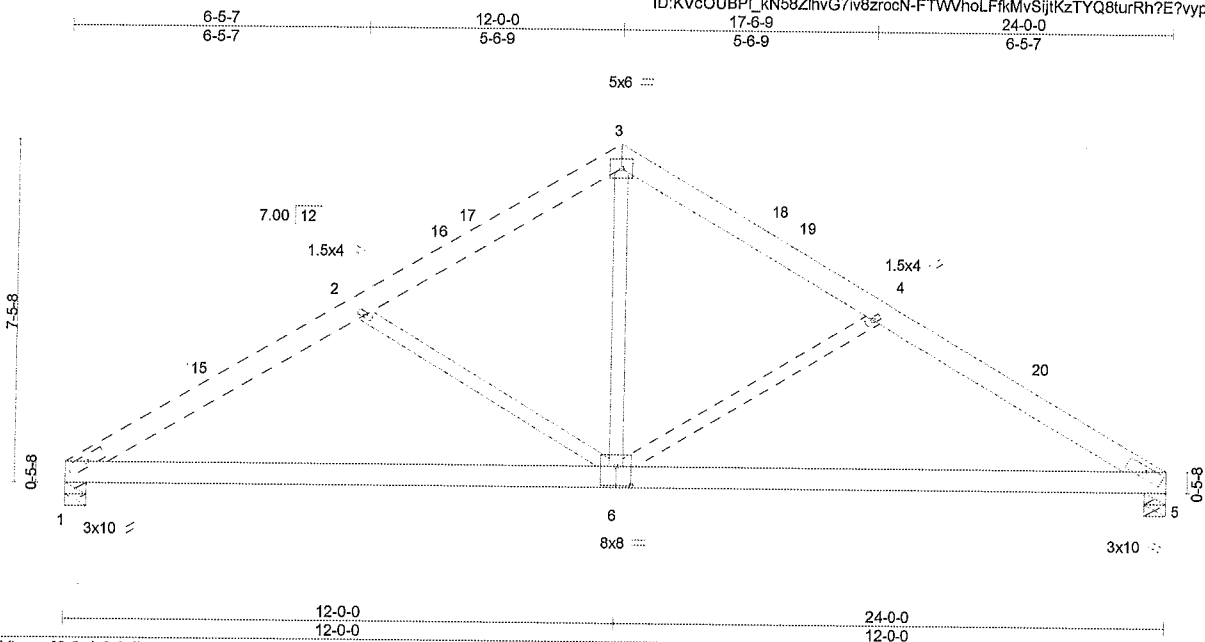
18023 Swingley Ridge Rd
 Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	NEH11426 - ADVANCED DEV.	46431124
2106CC11426NEH	GA1	QUEENPOST	12	1		

LaValley Building Supply, Inc., Newport, NH 03773

Job Reference (optional)

8.430 s May 12 2021 MITek Industries, Inc. Fri Jun 4 13:23:41 2021 Page 1
 ID:KvCOUBPL_kN58ZlhvG7iv8zrocN-FTWVhoLFfKmvSijtKzTYQ8turRh?E?yypgLPQPz9f?G



Scale: 1/4"=1'

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 40.0	Plate Grip DOL	1.15	TC 0.34	Vert(LL)	-0.11	6-12	>999	360	MT20	169/123
Snow (Pf/Pg) 26.9/35.0	Lumber DOL	1.15	BC 0.65	Vert(CT)	-0.23	6-12	>999	240		
TCDL 10.0	Rep Stress Incr	YES	WB 0.65	Horz(CT)	0.05	5	n/a	n/a		
BCLL 0.0 *	Code IBC2015/TPI2014		Matrix-MS							
BCDL 10.0									Weight: 115 lb	FT = 20%

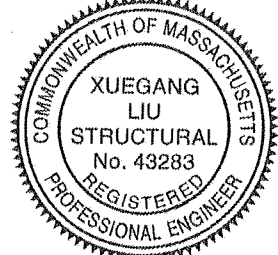
LUMBER-
 TOP CHORD 2x6 SPF No.1 or 2x6 SPF No.2 or 2x6 SPF-S No.2
 BOT CHORD 2x6 SPF No.1 or 2x6 SPF No.2 or 2x6 SPF-S No.2
 WEBS 2x4 SPF No.1 or 2x4 SPF No.2 or 2x4 SPF-S No.2

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 4-1-7 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=0-5-8, 5=0-5-8
 Max Horz 1=-148(LC 14)
 Max Uplift 1=-193(LC 16), 5=-193(LC 16)
 Max Grav 1=1417(LC 2), 5=1417(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-15=-2152/346, 2-15=-2062/364, 2-16=-1613/265, 16-17=-1474/269, 3-17=-1453/287,
 3-18=-1453/287, 18-19=-1474/269, 4-19=-1613/265, 4-20=-2062/364, 5-20=-2152/346
 BOT CHORD 1-6=-223/1797, 5-6=-223/1797
 WEBS 2-6=-667/240, 3-6=-117/946, 4-6=-667/240

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vuult=135mph Vasd=107mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=24ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2) 0-2-12 to 3-2-12, Interior(1) 3-2-12 to 12-0-0, Exterior(2) 12-0-0 to 15-0-0, Interior(1) 15-0-0 to 23-9-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) TCLL: ASCE 7-10; Pr=40.0 psf (roof live load; Lumber DOL=1.15 Plate DOL=1.15); Pg=35.0 psf (ground snow); Pf=26.9 psf (flat roof snow; Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
 - 4) Unbalanced snow loads have been considered for this design.
 - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 7) All bearings are assumed to be SPF-S or SPF No.2 or No.1 crushing capacity of 335 psi.
 - 8) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at Jt(s) 1 and 5. This connection is for uplift only and does not consider lateral forces.



Xm Liu

June 4, 2021

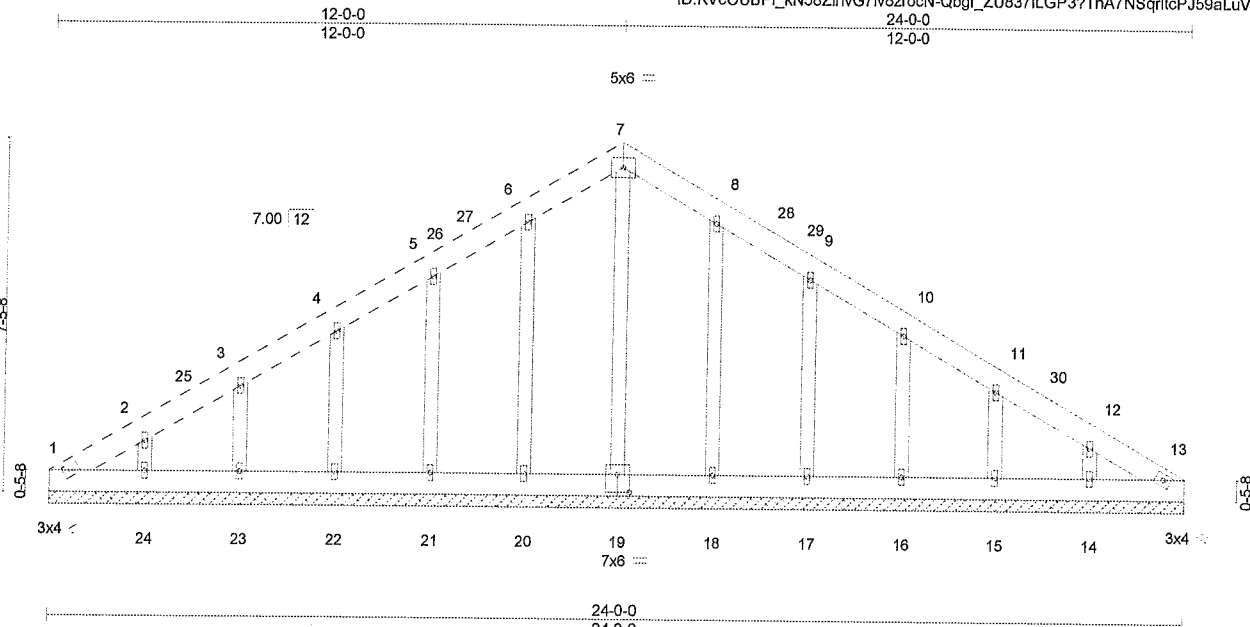
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
 Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSII/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



16023 Swingley Ridge Rd
 Chesterfield, MO 63017

LaValley Building Supply, Inc., Newport, NH 03773

Job Reference (optional)
 8.430 s May 12 2021 MiTek Industries, Inc. Fri Jun 4 13:23:52 2021 Page 1
 ID:KVcOUBPl_kN58ZlhwG7iv8zrocN-Qbgf_ZU837ILGP3?TnA7NSqrItcPJ59aLuVUJGz9f75



Scale = 1:46.7

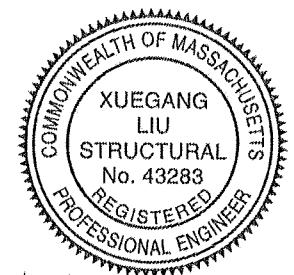
Plate Offsets (X,Y)-- [19:0-3-0,0-4-8]	
LOADING (psf)	SPACING-
TCLL (roof) 40.0	2-0-0
Snow (Pf/Pg) 26.9/35.0	Plate Grip DOL 1.15
TCDL 10.0	Lumber DOL 1.15
BCLL 0.0 *	Rep Stress Incr YES
BCDL 10.0	Code IBC2015/TPI2014
	CSI.
	TC 0.04
	BC 0.02
	WB 0.17
	Matrix-S
	DEFL.
	in (loc) l/defl L/d
	Vert(LL) n/a - n/a 999
	Vert(CT) n/a - n/a 999
	Horz(CT) 0.00 13 n/a n/a
	PLATES
	MT20
	GRIP
	169/123
	Weight: 135 lb FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SPF No.1 or 2x6 SPF No.2 or 2x6 SPF-S No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2x6 SPF No.1 or 2x6 SPF No.2 or 2x6 SPF-S No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS 2x4 SPF Stud or 2x4 SPF-S Stud	

REACTIONS. All bearings 24-0-0.
 (lb) - Max Horz 1=150(LC 14)
 Max Uplift All uplift 100 lb or less at joint(s) 1, 20, 21, 22, 23, 24, 18, 17, 16, 15, 14
 Max Grav All reactions 250 lb or less at joint(s) 1, 13, 19, 21, 22, 23, 17, 16, 15 except 20=253(LC 20), 24=259(LC 31), 18=253(LC 21), 14=259(LC 32)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; VuIt=135mph Vasd=107mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=24ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 12-0-0, Exterior(2) 12-0-0 to 15-0-0, Interior(1) 15-0-0 to 23-10-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - TCLL: ASCE 7-10; Pr=40.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=35.0 psf (ground snow); Pf=26.9 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
 - Unbalanced snow loads have been considered for this design.
 - All plates are 1.5x4 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - Gable studs spaced at 2-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - All bearings are assumed to be SPF-S or SPF No.2 or No.1 crushing capacity of 335 psi.



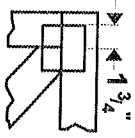
Xuegang Liu
 June 4, 2021

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
 Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2870 Crain Highway, Suite 203 Waldorf, MD 20601

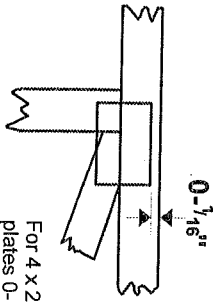


Symbols

PLATE LOCATION AND ORIENTATION



Center plate on joint unless x, y offsets are indicated. Dimensions are in ft-in-sixteenths. Apply plates to both sides of truss and fully embed teeth.



For 4 X 2 orientation, locate plates 0- 1/16" from outside edge of truss.



This symbol indicates the required direction of slots in connector plates.

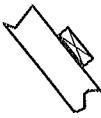
* Plate location details available in **MITtek 20/20** software or upon request.

PLATE SIZE

4 X 4

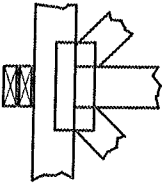
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



Indicated by symbol shown and/or by text in the bracing section of the output. Use T or I bracing if indicated.

BEARING

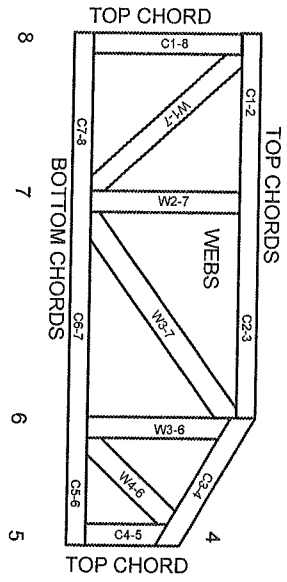


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

Industry Standards:

- ANSI/TPI1: National Design Specification for Metal Plate Connected Wood Truss Construction.
- DSB-89: Design Standard for Bracing.
- BCSI: Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

Numbering System



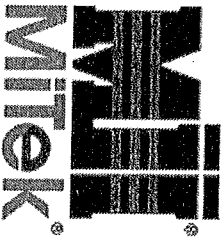
JOINTS ARE GENERALLY NUMBERED/LETTERED CLOCKWISE AROUND THE TRUSS STARTING AT THE JOINT FARTHEST TO THE LEFT.
CHORDS AND WEBS ARE IDENTIFIED BY END JOINT NUMBERS/LETTERS.

PRODUCT CODE APPROVALS

- ICC-ES Reports:
- ESR-1311, ESR-1352, ESR1988
- ER-3907, ESR-2362, ESR-1397, ESR-3282

Trusses are designed for wind loads in the plane of the truss unless otherwise shown.
Lumber design values are in accordance with ANSI/TPI 1 section 6.3 These truss designs rely on lumber values established by others.

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MITtek Engineering Reference Sheet: MI-17473 rev. 5/19/2020

General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI.
2. Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.
3. Never exceed the design loading shown and never stack materials on inadequately braced trusses.
4. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
5. Cut members to bear tightly against each other.
6. Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI 1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
8. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
9. Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
10. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
12. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
13. Top chords must be sheathed or purlins provided at spacing indicated on design.
14. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
15. Connections not shown are the responsibility of others.
16. Do not cut or alter truss member or plate without prior approval of an engineer.
17. Install and load vertically unless indicated otherwise.
18. Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
19. Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
20. Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.
21. The design does not take into account any dynamic or other loads other than those expressly stated.

ROOF SYSTEM			
Member Name	Results	Current Solution	Comments
BEAM A	Passed	2 piece(s) 1 3/4" x 11 1/4" 2.0E Microllam® LVL	
BEAM B	Passed	2 piece(s) 2 x 10 SPF No.1/No.2	
BEAM C	Passed	2 piece(s) 2 x 10 SPF No.1/No.2	
1ST FLOOR WALLS			
Member Name	Results	Current Solution	Comments
BEAM D	Passed	2 piece(s) 1 3/4" x 9 1/4" 2.0E Microllam® LVL	
BEAM E	Passed	2 piece(s) 2 x 10 SPF No.1/No.2	
1ST FLOOR WALLS			
Member Name	Results	Current Solution	Comments
BEAM F	Passed	2 piece(s) 2 x 10 SPF No.1/No.2	
BASMENT			
Member Name	Results	Current Solution	Comments
BEAM G	Passed	4 piece(s) 2 x 12 SPF No.1/No.2	
GARAGE			
Member Name	Results	Current Solution	Comments
BEAM H	Passed	3 piece(s) 2 x 12 SPF No.1/No.2	

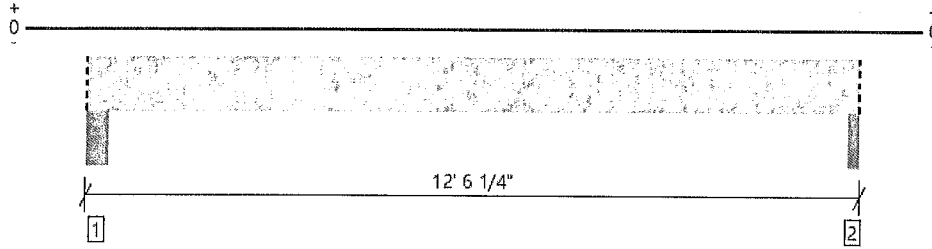
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ROOF SYSTEM, BEAM A

2 piece(s) 1 3/4" x 11 1/4" 2.OE Microllam® LVL

Overall Length: 12' 6 1/4"



All locations are measured from the outside face of left support (or left cantilever end). All dimensions are horizontal.

Design Results	Actual @ Location	Allowed	Result	LDF	Load: Combination (Pattern)
Member Reaction (lbs)	4523 @ 12' 5"	6978 (2.75")	Passed (65%)	--	1.0 D + 1.0 S (All Spans)
Shear (lbs)	3664 @ 1' 4 3/4"	8603	Passed (43%)	1.15	1.0 D + 1.0 S (All Spans)
Moment (Ft-lbs)	13430 @ 6' 4 1/2"	18558	Passed (72%)	1.15	1.0 D + 1.0 S (All Spans)
Live Load Defl. (in)	0.305 @ 6' 4 1/2"	0.403	Passed (L/475)	--	1.0 D + 1.0 S (All Spans)
Total Load Defl. (in)	0.464 @ 6' 4 1/2"	0.604	Passed (L/312)	--	1.0 D + 1.0 S (All Spans)

System : Floor
 Member Type : Flush Beam
 Building Use : Residential
 Building Code : IBC 2018
 Design Methodology : ASD

- Deflection criteria: LL (L/360) and TL (L/240).
- Allowed moment does not reflect the adjustment for the beam stability factor.

Supports	Bearing Length			Loads to Supports (lbs)				Accessories
	Total	Available	Required	Dead	Roof Live	Snow	Total	
1 - Column - SPF	5.50"	5.50"	1.85"	1605	1764	3087	6456	Blocking
2 - Column - SPF	2.75"	2.75"	1.78"	1547	1700	2976	6223	Blocking

• Blocking Panels are assumed to carry no loads applied directly above them and the full load is applied to the member being designed.

Lateral Bracing	Bracing Intervals	Comments
Top Edge (Lu)	9' 2" o/c	
Bottom Edge (Lu)	12' 6" o/c	

•Maximum allowable bracing intervals based on applied load.

Multiple Member Connections							
Type	Location	Fastener	Placement	Rows	O.C.	# of Fasteners	Details
Uniform	0 to 12' 6 1/4"	10d Nail (0.128" x 3")	One Side	2	12"	--	L17

Vertical Loads	Location (Side)	Tributary Width	Dead (0.90)	Roof Live (non-snow: 1.00)	Snow (1.15)	Comments
0 - Self Weight (PLF)	0 to 12' 6 1/4"	N/A	11.5	--	--	
1 - Uniform (PSF)	0 to 12' 6 1/4" (Front)	6' 11"	17.4	20.0	35.0	Default Load
2 - Uniform (PSF)	0 to 12' 6 1/4" (Back)	6' 11"	17.4	20.0	35.0	Default Load

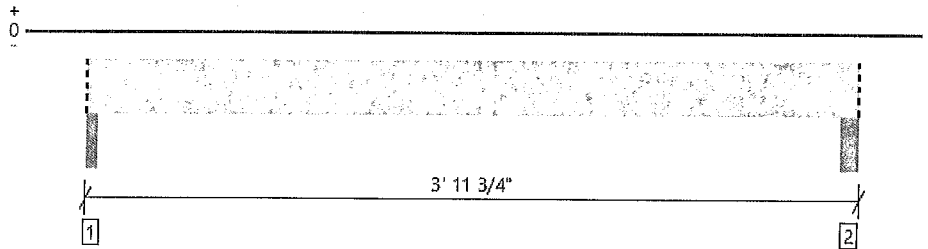
Member Notes
 SPAN BETWEEN MASTER BEDROOM AND WIC

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Overall Length: 3' 11 3/4"



All locations are measured from the outside face of left support (or left cantilever end). All dimensions are horizontal.

Design Results	Actual @ Location	Allowed	Result	LDf	Load: Combination (Pattern)
Member Reaction (lbs)	1402 @ 1' 1/4"	3506 (2.75")	Passed (40%)	--	1.0 D + 1.0 S (All Spans)
Shear (lbs)	670 @ 1'	2872	Passed (23%)	1.15	1.0 D + 1.0 S (All Spans)
Moment (Ft-lbs)	1201 @ 1' 11"	3946	Passed (30%)	1.15	1.0 D + 1.0 S (All Spans)
Live Load Defl. (in)	0.007 @ 1' 11"	0.121	Passed (L/999+)	--	1.0 D + 1.0 S (All Spans)
Total Load Defl. (in)	0.010 @ 1' 11"	0.181	Passed (L/999+)	--	1.0 D + 1.0 S (All Spans)

System : Floor
 Member Type : Flush Beam
 Building Use : Residential
 Building Code : IBC 2018
 Design Methodology : ASD

- Deflection criteria: LL (L/360) and TL (L/240).
- Allowed moment does not reflect the adjustment for the beam stability factor.
- Applicable calculations are based on NDS.

Supports	Bearing Length			Loads to Supports (lbs)				Accessories
	Total	Available	Required	Dead	Roof Live	Snow	Total	
1 - Column - SPF	2.75"	2.75"	1.50"	474	530	928	1932	Blocking
2 - Column - SPF	4.50"	4.50"	1.50"	510	571	999	2080	Blocking

• Blocking Panels are assumed to carry no loads applied directly above them and the full load is applied to the member being designed.

Lateral Bracing	Bracing Intervals	Comments
Top Edge (Lu)	4' o/c	
Bottom Edge (Lu)	4' o/c	

•Maximum allowable bracing intervals based on applied load.

Vertical Loads	Location (Side)	Tributary Width	Dead (0.90)	Roof Live (non-snow: 1.00)	Snow (1.15)	Comments
0 - Self Weight (PLF)	0 to 3' 11 3/4"	N/A	7.0	--	--	
1 - Uniform (PSF)	0 to 3' 11 3/4" (Front)	6' 11"	17.4	20.0	35.0	Default Load
2 - Uniform (PSF)	0 to 3' 11 3/4" (Back)	6' 11"	17.4	20.0	35.0	Default Load

Member Notes

SPAN AT THE STAIR AREA

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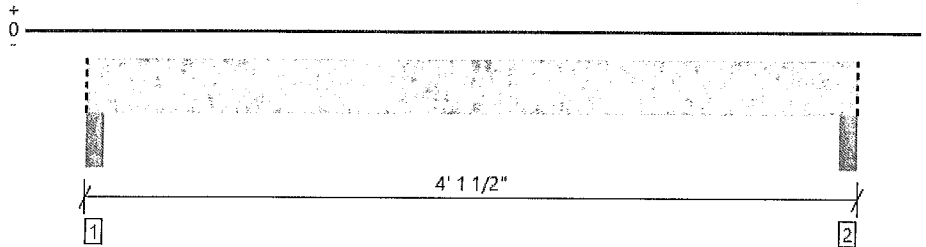
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Overall Length: 4' 1 1/2"



All locations are measured from the outside face of left support (or left cantilever end). All dimensions are horizontal.

Design Results	Actual @ Location	Allowed	Result	LDF	Load: Combination (Pattern)
Member Reaction (lbs)	1509 @ 3"	5738 (4.50")	Passed (26%)	--	1.0 D + 1.0 S (All Spans)
Shear (lbs)	670 @ 1' 1 3/4"	2872	Passed (23%)	1.15	1.0 D + 1.0 S (All Spans)
Moment (Ft-lbs)	1201 @ 2' 3/4"	3946	Passed (30%)	1.15	1.0 D + 1.0 S (All Spans)
Live Load Defl. (in)	0.007 @ 2' 3/4"	0.121	Passed (L/999+)	--	1.0 D + 1.0 S (All Spans)
Total Load Defl. (in)	0.010 @ 2' 3/4"	0.181	Passed (L/999+)	--	1.0 D + 1.0 S (All Spans)

System : Floor
 Member Type : Flush Beam
 Building Use : Residential
 Building Code : IBC 2018
 Design Methodology : ASD

- Deflection criteria: LL (L/360) and TL (L/240).
- Allowed moment does not reflect the adjustment for the beam stability factor.
- Applicable calculations are based on NDS.

Supports	Bearing Length			Loads to Supports (lbs)				Accessories
	Total	Available	Required	Dead	Roof Live	Snow	Total	
1 - Column - SPF	4.50"	4.50"	1.50"	510	571	999	2080	Blocking
2 - Column - SPF	4.50"	4.50"	1.50"	510	571	999	2080	Blocking

• Blocking Panels are assumed to carry no loads applied directly above them and the full load is applied to the member being designed.

Lateral Bracing	Bracing Intervals	Comments
Top Edge (Lu)	4' 2" o/c	
Bottom Edge (Lu)	4' 2" o/c	

•Maximum allowable bracing intervals based on applied load.

Vertical Loads	Location (Side)	Tributary Width	Dead (0.90)	Roof Live (non-snow: 1.00)	Snow (1.15)	Comments
0 - Self Weight (PLF)	0 to 4' 1 1/2"	N/A	7.0	--	--	
1 - Uniform (PSF)	0 to 4' 1 1/2" (Front)	6' 11"	17.4	20.0	35.0	Default Load
2 - Uniform (PSF)	0 to 4' 1 1/2" (Back)	6' 11"	17.4	20.0	35.0	Default Load

Member Notes

SPAN BETWEEN BEDROOM 4 AND HALLWAY

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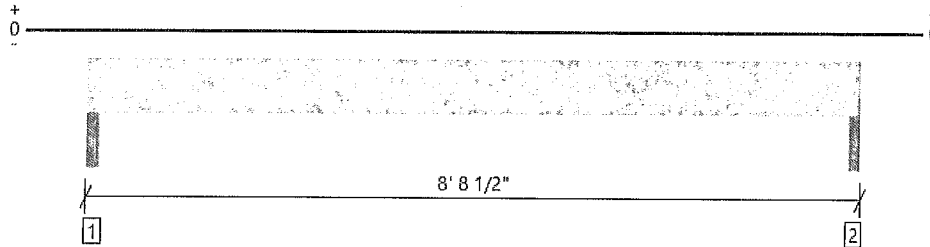
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1ST FLOOR WALLS, BEAM D
2 piece(s) 1 3/4" x 9 1/4" 2.0E Microllam® LVL

Overall Length: 8' 8 1/2"



All locations are measured from the outside face of left support (or left cantilever end). All dimensions are horizontal.

Design Results	Actual @ Location	Allowed	Result	LDf	Load: Combination (Pattern)
Member Reaction (lbs)	3474 @ 1 1/2"	7613 (3.00")	Passed (46%)	--	1.0 D + 1.0 L (All Spans)
Shear (lbs)	2660 @ 1' 1/4"	6151	Passed (43%)	1.00	1.0 D + 1.0 L (All Spans)
Moment (Ft-lbs)	7136 @ 4' 4 1/4"	11204	Passed (64%)	1.00	1.0 D + 1.0 L (All Spans)
Live Load Defl. (in)	0.156 @ 4' 4 1/4"	0.282	Passed (L/652)	--	1.0 D + 1.0 L (All Spans)
Total Load Defl. (in)	0.224 @ 4' 4 1/4"	0.423	Passed (L/452)	--	1.0 D + 1.0 L (All Spans)

System : Wall
 Member Type : Header
 Building Use : Residential
 Building Code : IBC 2018
 Design Methodology : ASD

- Deflection criteria: LL (L/360) and TL (L/240).
- Allowed moment does not reflect the adjustment for the beam stability factor.

Supports	Bearing Length			Loads to Supports (lbs)			Accessories
	Total	Available	Required	Dead	Floor Live	Total	
1 - Trimmer - SPF	3.00"	3.00"	1.50"	1065	2409	3474	None
2 - Trimmer - SPF	3.00"	3.00"	1.50"	1065	2409	3474	None

Lateral Bracing	Bracing Intervals	Comments
Top Edge (Lu)	8' 9" o/c	
Bottom Edge (Lu)	8' 9" o/c	

•Maximum allowable bracing intervals based on applied load.

Vertical Loads	Location	Tributary Width	Dead (0.90)	Floor Live (1.00)	Comments
0 - Self Weight (PLF)	0 to 8' 8 1/2"	N/A	9.4	--	
1 - Uniform (PSF)	0 to 8' 8 1/2"	13' 10"	17.0	40.0	Default Load

Member Notes

HEADER OVER DINING CASED OPENING

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The product application, input design loads, dimensions and support information have been provided by ForteWEB Software Operator

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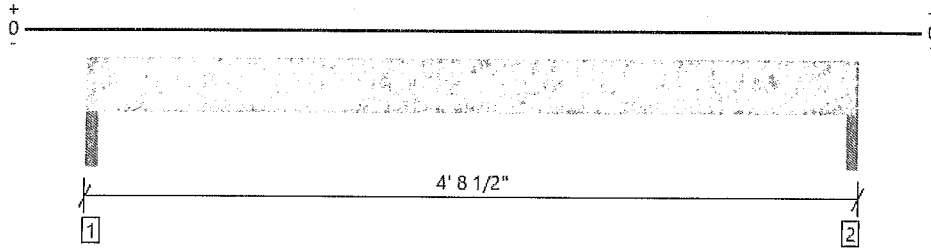


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 ForteWEB v3.2, Engine: V8.2.0.17, Data: V8.1.0.16

File Name: #11426

1ST FLOOR WALLS, BEAM E
2 piece(s) 2 x 10 SPF No.1/No.2

Overall Length: 4' 8 1/2"



All locations are measured from the outside face of left support (or left cantilever end). All dimensions are horizontal.

Design Results	Actual @ Location	Allowed	Result	LDF	Load: Combination (Pattern)
Member Reaction (lbs)	3156 @ 1' 1/2"	3825 (3.00")	Passed (83%)	--	1.0 D + 0.75 L + 0.75 S (All Spans)
Shear (lbs)	1580 @ 1' 1/4"	2498	Passed (63%)	1.00	1.0 D + 0.75 L + 0.75 Lr (All Spans)
Moment (Ft-lbs)	2944 @ 2' 4 1/4"	3431	Passed (86%)	1.00	1.0 D + 0.75 L + 0.75 Lr (All Spans)
Live Load Defl. (in)	0.025 @ 2' 4 1/4"	0.149	Passed (L/999+)	--	1.0 D + 0.75 L + 0.75 S (All Spans)
Total Load Defl. (in)	0.043 @ 2' 4 1/4"	0.223	Passed (L/999+)	--	1.0 D + 0.75 L + 0.75 S (All Spans)

System : Wall
Member Type : Header
Building Use : Residential
Building Code : IBC 2018
Design Methodology : ASD

- Deflection criteria: LL (L/360) and TL (L/240).
- Allowed moment does not reflect the adjustment for the beam stability factor.
- Applicable calculations are based on NDS.

Supports	Bearing Length			Loads to Supports (lbs)					Accessories
	Total	Available	Required	Dead	Floor Live	Roof Live	Snow	Total	
1 - Trimmer - SPF	3.00"	3.00"	2.48"	1324	1303	651	1140	4418	None
2 - Trimmer - SPF	3.00"	3.00"	2.48"	1324	1303	651	1140	4418	None

Lateral Bracing	Bracing Intervals	Comments
Top Edge (Lu)	4' 9" o/c	
Bottom Edge (Lu)	4' 9" o/c	

•Maximum allowable bracing intervals based on applied load.

Vertical Loads	Location	Tributary Width	Dead (0.90)	Floor Live (1.00)	Roof Live (non-snow: 1.00)	Snow (1.15)	Comments
0 - Self Weight (PLF)	0 to 4' 8 1/2"	N/A	7.0	--	--	--	
1 - Uniform (PSF)	0 to 4' 8 1/2"	13' 10"	17.0	40.0	-	-	Default Load
2 - Uniform (PLF)	0 to 4' 8 1/2"	N/A	80.0	-	-	-	
3 - Uniform (PSF)	0 to 4' 8 1/2"	13' 10"	17.4	-	20.0	35.0	

Member Notes

HEADER OVER LIVING TO KITCHEN CASED OPENING

Weyerhaeuser Notes

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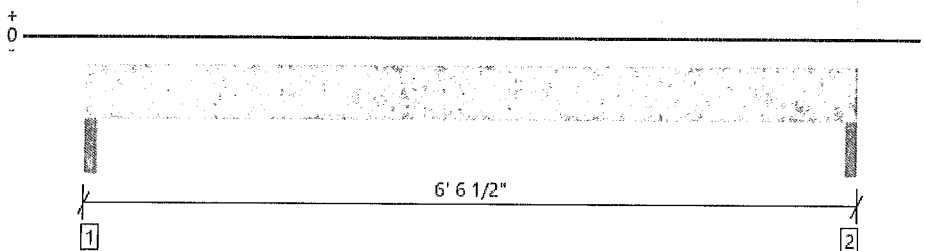
The product application, input design loads, dimensions and support information have been provided by ForteWEB Software Operator

ForteWEB Software Operator	Job Notes
luke.laplume PBS (603) 769-0904 llaplume@preferredbuildings.com	wind 134 snow 35 EXP:B



1ST FLOOR WALLS, BEAM F
2 piece(s) 2 x 10 SPF No.1/No.2

Overall Length: 6' 6 1/2"



All locations are measured from the outside face of left support (or left cantilever end). All dimensions are horizontal.

Design Results	Actual @ Location	Allowed	Result	LDF	Load: Combination (Pattern)
Member Reaction (lbs)	2318 @ 1 1/2"	3825 (3.00")	Passed (61%)	--	1.0 D + 0.75 L + 0.75 S (All Spans)
Shear (lbs)	1420 @ 1' 1/4"	2498	Passed (57%)	1.00	1.0 D + 0.75 L + 0.75 Lr (All Spans)
Moment (Ft-lbs)	3122 @ 3' 3 1/4"	3431	Passed (91%)	1.00	1.0 D + 0.75 L + 0.75 Lr (All Spans)
Live Load Defl. (in)	0.050 @ 3' 3 1/4"	0.210	Passed (L/999+)	--	1.0 D + 0.75 L + 0.75 S (All Spans)
Total Load Defl. (in)	0.090 @ 3' 3 1/4"	0.315	Passed (L/837)	--	1.0 D + 0.75 L + 0.75 S (All Spans)

System : Wall
 Member Type : Header
 Building Use : Residential
 Building Code : IBC 2018
 Design Methodology : ASD

- Deflection criteria: LL (L/360) and TL (L/240).
- Allowed moment does not reflect the adjustment for the beam stability factor.
- Applicable calculations are based on NDS.

Supports	Bearing Length			Loads to Supports (lbs)					Accessories
	Total	Available	Required	Dead	Floor Live	Roof Live	Snow	Total	
1 - Trimmer - SPF	3.00"	3.00"	1.82"	1046	905	452	792	3195	None
2 - Trimmer - SPF	3.00"	3.00"	1.82"	1046	905	452	792	3195	None

Lateral Bracing	Bracing Intervals	Comments
Top Edge (Lu)	6' 7" o/c	
Bottom Edge (Lu)	6' 7" o/c	

•Maximum allowable bracing intervals based on applied load.

Vertical Loads	Location	Tributary Width	Dead (0.90)	Floor Live (1.00)	Roof Live (non-snow: 1.00)	Snow (1.15)	Comments
0 - Self Weight (PLF)	0 to 6' 6 1/2"	N/A	7.0	--	--	--	
1 - Uniform (PSF)	0 to 6' 6 1/2"	6' 11"	17.0	40.0	-	-	Default Load
2 - Uniform (PLF)	0 to 6' 6 1/2"	N/A	75.0	-	-	-	
3 - Uniform (PSF)	0 to 6' 6 1/2"	6' 11"	17.4	-	20.0	35.0	

Member Notes
NOOK SLIDER HEADER

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The product application, input design loads, dimensions and support information have been provided by ForteWEB Software Operator

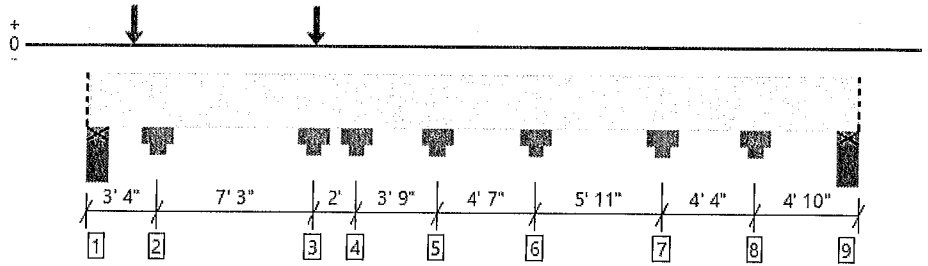
ForteWEB Software Operator	Job Notes
luke.laplume@preferredbuildings.com luke.laplume PBS (603) 769-0904	wind 134 snow 35 EXP:B



MEMBER REPORT
BASMENT, BEAM G
4 piece(s) 2 x 12 SPF No.1/No.2

PASSED

Overall Length: 36'



All locations are measured from the outside face of left support (or left cantilever end). All dimensions are horizontal.

Design Results	Actual @ Location	Allowed	Result	LDF	Load: Combination (Pattern)
Member Reaction (lbs)	11323 @ 20' 11"	20400 (8.00")	Passed (56%)	--	1.0 D + 0.75 L + 0.75 S (Adj Spans)
Shear (lbs)	3473 @ 22' 2 1/4"	6075	Passed (57%)	1.00	1.0 D + 1.0 L (Adj Spans)
Moment (Ft-lbs)	-5383 @ 20' 11"	9229	Passed (58%)	1.00	1.0 D + 1.0 L (Adj Spans)
Live Load Defl. (in)	0.015 @ 23' 10 3/4"	0.197	Passed (L/999+)	--	1.0 D + 0.75 L + 0.75 S (Alt Spans)
Total Load Defl. (in)	0.022 @ 23' 10 7/8"	0.296	Passed (L/999+)	--	1.0 D + 0.75 L + 0.75 S (Alt Spans)

System : Floor
 Member Type : Flush Beam
 Building Use : Residential
 Building Code : IBC 2018
 Design Methodology : ASD

- Deflection criteria: LL (L/360) and TL (L/240).
- Allowed moment does not reflect the adjustment for the beam stability factor.
- Applicable calculations are based on NDS.

Supports	Bearing Length			Loads to Supports (lbs)					Accessories
	Total	Available	Required	Dead	Floor Live	Roof Live	Snow	Total	
1 - Plate on concrete - SPF	5.50"	5.50"	1.50"	583	1754/-618	-4	-7	2337/-629	Blocking
2 - Column Cap - steel	8.00"	8.00"	2.83"	1975	5246	10	18	7249	None
3 - Column Cap - steel	8.00"	8.00"	3.37"	1991	6610	-154	-270	8601/-424	None
4 - Column Cap - steel	8.00"	8.00"	2.12"	1476	3942/-1652	688	1204	7310/-1652	None
5 - Column Cap - steel	8.00"	8.00"	3.47"	3059	5550	1233	2158	12000	None
6 - Column Cap - steel	8.00"	8.00"	4.44"	4181	6707	1610	2817	15315	None
7 - Column Cap - steel	8.00"	8.00"	4.25"	3890	6580	1539	2694	14703	None
8 - Column Cap - steel	8.00"	8.00"	3.88"	3533	6012	1404	2457	13406	None
9 - Plate on concrete - SPF	5.50"	5.50"	1.74"	1626	2649/-248	631	1105	6011/-248	Blocking

• Blocking Panels are assumed to carry no loads applied directly above them and the full load is applied to the member being designed.

Lateral Bracing	Bracing Intervals	Comments
Top Edge (Lu)	33' 3" o/c	
Bottom Edge (Lu)	25' 7" o/c	

•Maximum allowable bracing Intervals based on applied load.

FortewEB Software Operator	Job Notes
luke.laplume PBS (603) 769-0904 llaplume@preferredbuildings.com	wind 134 snow 35 EXP:B



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 FortewEB v3.2, Engine: V8.2.0.17, Data: V8.1.0.16

File Name: #11426

Vertical Loads	Location (Side)	Tributary Width	Dead (0.90)	Floor Live (1.00)	Roof Live (non-snow: 1.00)	Snow (1.15)	Comments
0 - Self Weight (PLF)	0 to 36'	N/A	17.1	--	--	--	
1 - Uniform (PSF)	0 to 36' (Front)	6' 11"	12.0	40.0	-	-	Default Load
2 - Uniform (PSF)	0 to 36' (Back)	6' 11"	12.0	40.0	-	-	Default Load
3 - Uniform (PLF)	0 to 2' 1 3/4" (Top)	N/A	80.0	-	-	-	
4 - Uniform (PLF)	10' 7 1/4" to 12' 6 1/4" (Top)	N/A	80.0	-	-	-	
5 - Uniform (PLF)	12' 6 1/4" to 36' (Top)	N/A	160.0	-	-	-	
6 - Uniform (PSF)	12' 6 1/4" to 36' (Top)	13' 10"	12.0	40.0	-	-	
7 - Uniform (PSF)	12' 6 1/4" to 36' (Top)	13' 10"	17.4	-	20.0	35.0	
8 - Point (lb)	2' 1 3/4" (Top)	N/A	1065	2409	-	-	Linked from: BEAM D, Support 1
9 - Point (lb)	10' 7 1/4" (Top)	N/A	1065	2409	-	-	Linked from: BEAM D, Support 2

Member Notes

MARRIAGE WALL PERIMETER

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The product application, input design loads, dimensions and support information have been provided by ForteWEB Software Operator

ForteWEB Software Operator	Job Notes
luke.laplume PBS (603) 769-0904 llaplume@preferredbuildings.com	wind 134 snow 35 EXP:B

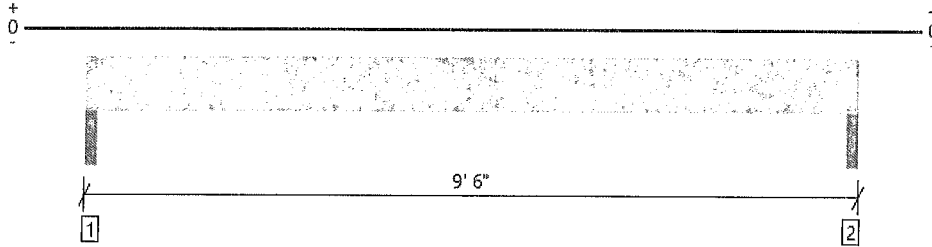


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ForteWEB v3.2, Engine: V8.2.0.17, Data: V8.1.0.16

File Name: #11426

GARAGE, BEAM H
3 piece(s) 2 x 12 SPF No.1/No.2

Overall Length: 9' 6"



All locations are measured from the outside face of left support (or left cantilever end). All dimensions are horizontal.

Design Results	Actual @ Location	Allowed	Result	LDf	Load: Combination (Pattern)
Member Reaction (lbs)	3046 @ 1 1/2"	5738 (3.00")	Passed (53%)	--	1.0 D + 1.0 S (All Spans)
Shear (lbs)	2284 @ 1' 2 1/4"	5240	Passed (44%)	1.15	1.0 D + 1.0 S (All Spans)
Moment (Ft-lbs)	6858 @ 4' 9"	7960	Passed (86%)	1.15	1.0 D + 1.0 S (All Spans)
Live Load Defl. (in)	0.093 @ 4' 9"	0.308	Passed (L/999+)	--	1.0 D + 1.0 S (All Spans)
Total Load Defl. (in)	0.141 @ 4' 9"	0.463	Passed (L/786)	--	1.0 D + 1.0 S (All Spans)

System : Wall
 Member Type : Header
 Building Use : Residential
 Building Code : IBC 2018
 Design Methodology : ASD

- Deflection criteria: LL (L/360) and TL (L/240).
- Allowed moment does not reflect the adjustment for the beam stability factor.
- Applicable calculations are based on NDS.

Supports	Bearing Length			Loads to Supports (lbs)				Accessories
	Total	Available	Required	Dead	Roof Live	Snow	Total	
1 - Trimmer - SPF	3.00"	3.00"	1.59"	1051	1140	1995	4186	None
2 - Trimmer - SPF	3.00"	3.00"	1.59"	1051	1140	1995	4186	None

Lateral Bracing	Bracing Intervals	Comments
Top Edge (Lu)	9' 6" o/c	
Bottom Edge (Lu)	9' 6" o/c	

•Maximum allowable bracing intervals based on applied load.

Vertical Loads	Location	Tributary Width	Dead (0.90)	Roof Live (non-snow: 1.00)	Snow (1.15)	Comments
0 - Self Weight (PLF)	0 to 9' 6"	N/A	12.8	--	--	
1 - Uniform (PSF)	0 to 9' 6"	12'	17.4	20.0	35.0	Default Load

Member Notes
GARAGE DOOR HEADERS

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The product application, input design loads, dimensions and support information have been provided by ForteWEB Software Operator

ForteWEB Software Operator	Job Notes
luke.laplume PBS (603) 769-0904 llaplume@preferredbuildings.com	wind 134 snow 35 EXP:B



LOAD CALCULATION

(Ref. Annex D - NEC 2020)

Modular Builder: New England Homes

Building Type: 27'-8" x 36' Cape

Serial Number: 11426

Air Conditioning (100%) *	Area	Watts or Volt-Amps
---------------------------	------	--------------------

Central Electric Space Heating	0	x 0.65*	0
--------------------------------	---	---------	---

Less than 4 separately controlled electric space heating units	0	x 0.65	0
--	---	--------	---

Four or more separately controlled electric space heating units	0	x 0.40	0
---	---	--------	---

* Use the larger of the air-conditioning load or the diversified demand of the heating load.

Other loads:	Area	Watts	Circuit	Wire size
--------------	------	-------	---------	-----------

General lighting (1st floor)	996	x 3	2988	15A	14-2 W/G
------------------------------	-----	-----	------	-----	----------

General lighting (2nd floor)	996	x 3	2988	15A	14-2 W/G
------------------------------	-----	-----	------	-----	----------

General lighting (Bsmt)	996	x 3	2988	15A	14-2 W/G
-------------------------	-----	-----	------	-----	----------

Small appliances	5	x 1500	7500	20A	12-2 W/G
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Furnace			500	20A	12-2 W/G
---------	--	--	-----	-----	----------

Dryer			5000	30A	10-3 W/G
-------	--	--	------	-----	----------

Water Heater			4500	25A	10-2 W/G
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Range (at nameplate rating)			12000	40A	8-3 W/G
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Dishwasher			1200	20A	12-2 W/G
------------	--	--	------	-----	----------

Garbage disposal			0	15A	14-2 W/G
------------------	--	--	---	-----	----------

Heat/Fan/Light			0	20A	12-2 W/G
----------------	--	--	---	-----	----------

Microwave			0	20A	12-2 W/G
-----------	--	--	---	-----	----------

Washer			2000	20A	12-2 W/G
--------	--	--	------	-----	----------

Rangehood			1000	20A	12-2 W/G
-----------	--	--	------	-----	----------

			0		
--	--	--	---	--	--

			0		
--	--	--	---	--	--

			0		
--	--	--	---	--	--

			SUB-TOTAL	42664	

First 10 KW of other loads @ 100%					10000
-----------------------------------	--	--	--	--	-------

Remainder of other loads @ .40%			32664	x .40	13065.6
---------------------------------	--	--	-------	-------	---------

Electric Vehicle @ 125%			12000	x 1.25	15000
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Heat (Above)					0
--------------	--	--	--	--	---

TOTAL CALCULATED LOAD		38066

Required Service size	38066	240 =	158.61	amps
-----------------------	-------	-------	--------	------

Installed Panel size					
			200	amps	

I. NEW ENGLAND HOMES
 A Division of Preferred Building Systems Inc.
 DIVISION OFFICES: PHONE: (603) 436-8830
 277 LOCUST STREET, SUITE B, DOVER, NH 03820
 MANUFACTURING PLANT: PHONE: (603) 372-1050
 PREFERRED BUILDING SYSTEMS
 143 TWISTBACK ROAD, CLAREMONT, N.H. 03743
 MANUFACTURER NUMBER: MC 346
 ASSIGNED BY THE COMMONWEALTH OF MASSACHUSETTS
 EXPIRATION DATE OF CURRENT AUTHORIZATION:
 4/30/2022

2. T. R. A.
 T.R. ARNOLD & ASSOCIATES, INC.
 CORPORATE OFFICES: PHONE: (574) 264-0745
 4703 CHESTER DR., ELKHART, INDIANA 46516
 THIRD PARTY INSPECTION AGENCY AUTHORIZATION
 NUMBER: TPIA-03
 ASSIGNED BY THE COMMONWEALTH OF MASSACHUSETTS
 EXPIRATION DATE OF CURRENT AUTHORIZATION:
 4/30/2022

3. INDEX OF DRAWINGS
 32 SHEETS, REVISION C, DATED 6/28/2021

REFER TO A-1 FOR ARCHITECTURAL DRAWING INDEX
 REFER TO M-1 FOR MECHANICAL DRAWING INDEX
 REFER TO E-1 FOR ELECTRICAL DRAWING INDEX
 REFER TO CODE APPROVAL DOCUMENTS

GROUND SNOW LOAD - 35 PSF CONVERTS TO DESIGN LOAD
 BASED ON THE FOLLOWING:
 35 GSL X 0.77 = 26.9 PSF - OK
 35 GSL REQUIRED FOR RAYNHAM, MA SITE.

GENERAL NOTES

- N.E.H. (NEW ENGLAND HOMES) LIMITS ITS SITE RESPONSIBILITIES TO SETTING AND ATTACHING MODULAR UNITS TO CONSTRUCTION SITE'S PROPERLY DESIGNED AND PREPARED FOUNDATION AND ANCHORAGE.
- ALL NOTES CONTAINING THE TERM "CSL" OR "CONSTRUCTION SUPERVISOR LICENSEE" ARE DEFINING OBLIGATIONS WHETHER FOR MATERIAL WHICH IS NOT SUPPLIED OR INSTALLED BY THE COMPANY, OR FOR CONSTRUCTION METHODOLOGY/ACCEPTABLE BUILDING PRACTICE FOR WHICH THE COMPANY ACCEPTS NO RESPONSIBILITY AND SHOULD BE REVIEWED CAREFULLY BY THE "CSL" OR "CONSTRUCTION SUPERVISOR LICENSEE" AND THE LOCAL BUILDING INSPECTOR. ALL NOTES CONTAINING THE TERM "CSL" OR "CONSTRUCTION SUPERVISOR LICENSEE" ALSO DEFINE AREAS OF RESPONSIBILITY WHICH ARE NOT SANCTIONED BY THE THIRD PARTY INSPECTION AGENCY OR THE STATE OF MASSACHUSETTS' CERTIFICATION OF MANUFACTURED HOUSING FOR THIS PROJECT.
- THE TERM "SHIP LOOSE" AND "SHIPPED LOOSE" REFERS TO ITEMS TO BE INSTALLED ONSITE BY THE "CSL" OR "CONSTRUCTION SUPERVISOR LICENSEE". TYPICAL ITEMS SHIPPED LOOSE (UNLESS SPECIFICALLY NOTED OTHERWISE):
 - SIDING & ACCESSORIES - FASCIA & SOFFIT TRIM - DRIP EDGE - GABLE END & RAKE TRIM - VENT CAPS - EXTERIOR LIGHT FIXTURES AND OUTLETS
- EXTERIOR DOORS ARE TACKED AND FINAL INSTALLATION IS DONE ONSITE BY THE "CSL" OR "CONSTRUCTION SUPERVISOR LICENSEE"
- ELEVATIONS ARE FOR GRAPHIC REPRESENTATION ONLY.
- THE "CSL" OR "CONSTRUCTION SUPERVISOR LICENSEE" IS RESPONSIBLE FOR ALL FINAL FASTENING OF EXTERIOR DECKS AND PORCHES, LALLY COLUMNS, PIN RAFTERS, AND ALL REMAINING MISC. ITEMS THROUGH OUT MARKED AS " BY CSL" OR "BY CONSTRUCTION SUPERVISOR LICENSEE".

7. REFER TO THE PURCHASE ORDER, THE PBS/NEH SITE REFERENCE MANUAL, AND THE PLAN SET FOR TYPICAL AS WELL AS LISTED RESPONSIBILITIES.

4. BUILDING INFORMATION

- PROJECT: 11426
 PROPOSED ADDRESS: LOT 0 KING PHILIP STREET
 RAYNHAM, MASSACHUSETTS 02767
- USE GROUP: SINGLE FAMILY
- CONSTRUCTION CLASSIFICATION: VB WOOD FRAMED
- AREA OF BUILDING PER FLOOR: 996 SQ FT (1ST) + 996 SQ FT (2ND)
- HEIGHT OF BUILDING:
 1. MAX. 3 HABITABLE STORIES ABOVE GRADE PLANE
- DESIGN OCCUPANCY LOAD: NINE LODGERS OR BOARDERS PER FAMILY
- SPECIAL SYSTEMS BY TYPE:
 1a. TYPE OF FIRE ALARM SYSTEM:
 HOUSEHOLD FIRE WARNING SYSTEM (SMOKE DETECTORS) IN COMPLIANCE WITH ANSI/UL217 AND/OR ANSI/UL268 AND 780 CMR R314
- 1b. TYPE OF FIRE ALARM SYSTEM:
 HOUSEHOLD FIRE WARNING SYSTEM (HEAT DETECTORS) IN COMPLIANCE WITH 780 CMR R314
- 1c. TYPE OF FIRE ALARM SYSTEM:
 HOUSEHOLD FIRE WARNING SYSTEM (CARBON MONOXIDE DETECTORS) IN COMPLIANCE WITH NFPA 720-5.2.2 AND 780 CMR R315
2. TYPE OF FIRE SUPPRESSION SYSTEM: N/A
- GROUND SNOW LOAD (Pg): 35 PSF
- WIND SPEED (3 SEC. GUST): 134 MPH Vult (DESIGN)
- EXPOSURE CATEGORY: B
- DESIGN LIVE LOADS:

	REQ'D. 780 CMR TABLE R301.5	DESIGN
1. ROOF	26.9 psf	26.9 psf
2. FLOORS	40 psf	40 psf
3. FLOORS (SLEEPING AREAS)	30 psf	30 psf
4. CORRIDOR	N/A	N/A
5. STAIRS	40 psf	100 psf
6. BALCONIES & DECKS	40 psf	40 psf

1) DESIGN OF STAIRS: (MASSACHUSETTS AMENDMENT)

- MAXIMUM RISER: 8 1/4"
 - MINIMUM TREAD: 9"
 - MINIMUM HEADROOM: 6'-8"
 - MINIMUM WIDTH: 3'-0"
- m) SPECIAL USE PROVISIONS, CONDITIONS OR LIMITATIONS:
 1. MINIMUM CODE REQUIRED SETBACKS FROM LOT LINES:
 a. GREATER THAN OR EQUAL TO: 5' FOR 0 HOUR EXTERIOR WALL (780 CMR R302.1)
- n) WINTER DESIGN TEMPERATURE
 INSIDE +70°F OUTSIDE +70/+9°F
- o) SPECIAL USE PROVISIONS, CONDITIONS AND LIMITATIONS
 -EXTERIOR WALLS AND FIRE RESISTANCE RATINGS PER TABLES R302.1
 -DISCLAIMER: THIS HOUSE NOT BE SET IN A FLOOD HAZARD AREA
 -WINDOW GUARDS SHALL MEET 2015 IRC R312.2 BY FACTORY
 -BUILDING NOT TO BE USED AS AN ADDITION IF IT DOWNGRADES CONSTRUCTION TYPE, REDUCES OPEN PERIMETER, OR JEOPARDIZES LIFE SAFETY
 -LIMITED TO PLACEMENT IN SNOW LOAD ZONES 1 OR 2

5. METHOD OF VENTILATION

___ NATURAL ___ MECHANICAL _XX_ COMBINATION

6. MECHANICAL INFORMATION

- HEAT BY CSL
- TYPE OF CHIMNEY/VENTING SYSTEM(S): NOT BY THE COMPANY. SUPPLIED AND INSTALLED BY THE "CSL" AND INSPECTED AND APPROVED BY THE LOCAL CODE ENFORCEMENT OFFICER.

7. ENERGY CODE COMPLIANCE

ENERGY PROVISIONS: UNITS ARE DESIGNED TO MEET THE REQUIREMENTS OF THE MASSACHUSETTS ENERGY CODE WITH ATTACHED COMPLIANCE REPORTS. CALCULATIONS ARE BASED ON DESTINATIONS AND AND DETERMINED WITH CURRENT VERSION OF THE RESCHECK.

* NOTE: BASEMENT CEILING INSULATION IS SUPPLIED AND INSTALLED ON SITE BY CSL, AS IS THE MATERIAL AND LABOR FOR ALL OTHER REQUIREMENTS OF 780 CMR CHAPTER 61 OF THE MSBC, 9th EDITION.

8. STATE CODES

2015 IRC W/ STATE AMENDMENTS
 780 CMR 9TH EDITION MASSACHUSETTS STATE BUILDING CODE RESIDENTIAL 1&2 FAMILY
 248 CMR MASSACHUSETTS STATE CODE FOR FUEL GAS & PLUMBING CODE
 2020 NEC W/ STATE AMENDMENTS
 527 CMR 12: MASSACHUSETTS ELECTRICAL CODE
 CHAPTER 61 ENERGY CODE
 2018 IECC

-MA STRETCH ENERGY CODE 780 CMR APPENDIX 120.AA
 ____YES XX NO

9. DATA / CODE PLATE & STATE LABEL LOCATIONS

1). DATA/CODE PLATE, STATE LABEL AND TRA LABEL LOCATIONS ARE AS SHOWN ON THE FLOOR PLAN(S).

10. SPACE FOR THIRD PARTY STAMP

II. A 48-HOUR NOTIFICATION MUST BE GIVEN TO THE LOCAL AUTHORITY PRIOR TO UNITS BEING SET. THE CSL ON RECORD IS RESPONSIBLE FOR RELAYING THIS NOTIFICATION. IF ANY CONNECTIONS HAVE BEEN CONCEALED PRIOR TO INSPECTION, THE BUILDING OFFICIAL MAY REQUEST HAVING THE REMOVAL OF ELEMENTS THAT CONCEAL THE CONNECTIONS TO PROVIDE ACCESS. THIS WOULD NOT CONSTITUTE "DESTRUCTIVE DISASSEMBLY". ALL CONNECTIONS ON SITE MUST BE INSPECTED BY THE LOCAL AUTHORITY

FOR STATE USE ONLY

NEW ENGLAND HOMES
 A DIVISION OF PREFERRED BUILDING SYSTEMS INC.
 277 LOCUST STREET, SUITE B, DOVER, NH 03820

MASSACHUSETTS COVER SHEET

SCALE: AS NOTED
 RELEASE CODE: 00.115
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GC.17A

11426
 Revision: C
 Sheet: A-0

Drawn: 4/28/21 JMS
 Revisions: 4/28/21 JMS, 5/12/21 JMS, 6/17/2021 RTA, 6/28/2021 RTA

277 Locust Street, Suite B
 Dover, NH 03820
 www.newenglandhomes.net
 (Telephone) 800.800.8831
 (Fax) 603.431.8540

New England Homes

ADVANCED DEVELOPMENT INC
 Structure Desc: COLONIAL
 Builder: N.T.S.
 Scale: COVER SHEET

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 ME ANOTHER SET OF PERMIT PLANS TO REVIEW.

PLEASE CHECK APPROPRIATE BOX, SIGN, DATE, AND RETURN TO N.E.H. PLANS NOT CHECKED, SIGNED, AND DATED WILL BE RETURNED AND SUBJECT TO REMOVAL FROM PRODUCTION SCHEDULING.

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

ARCHITECTURAL DRAWING LIST	
A-0	COVER SHEET
A-1	LEED SHEET
A-2	FOUNDATION PLAN
A-3	FIRST FLOOR PLAN
A-4	SECOND FLOOR PLAN
A-5	FRONT ELEVATION
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A-9	CROSS SECTION
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A-14	KITCHEN DETAILS
A-15	KITCHEN DETAILS
A-16	DETAILS
A-17	DETAILS
A-18	DETAILS
A-19	DETAILS
A-20	DETAILS
A-21	BRACE WALL DETAILS
A-22	BRACE WALL DETAILS
A-23	BRACE WALL DETAILS

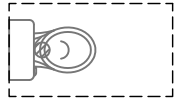
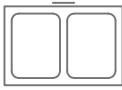



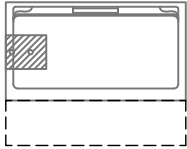


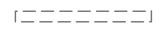
LABEL AND DATA PLATE INDEX:

TRA THIRD PARTY LABEL
 MA MASSACHUSETTS STATE LABEL
 DP DATA PLATE



- GENERAL NOTES**
- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH ALL APPLICABLE CODES, STANDARDS, BULLETINS (LATEST EDITION) AND TO THE LOCAL AUTHORITIES REQUIREMENTS.
 - READ THIS DRAWING IN CONJUNCTION WITH MECHANICAL AND ELECTRICAL REQUIREMENTS.
 - PENETRATIONS OF EITHER THE FIRE OR SMOKE BARRIER WALLS SHALL BE SLEEVED AND SEALED AGAINST THE PASSAGE OF FLAME OR SMOKE WITH A SUITABLE NON-COMBUSTIBLE MATERIAL EQUAL TO THE CONSTRUCTION TO BE PENETRATED.
 - DESIGN, DETAILING, AND CONSTRUCTION, SHALL CONFORM TO THE LATEST CODE AND ALL OTHER CODES AND STANDARDS LISTED.
 - TYPICAL DETAILS SHALL BE USED WHERE DETAILS ARE NOT SHOWN ON THE DRAWINGS.

LEGEND

	WATER CLOSET
	KITCHEN SINK
	BATH SINK
	REFRIGERATOR
	ELECTRIC RANGE
	TUB/SHOWER
	WASHER AND DRYER
	NEW WALL
	ON SITE WALL (NOT BY NEH)

11426	Drawn:	JMS	277 Locust Street, Suite B Dover, NH 03820 www.newenglandhomes.net (Telephone): 800.800.8831 (Fax): 603.431.8540
	Revisions	JMS	
Revision:	C	JMS	New England Homes
Sheet:	A-1	RTA	
		RTA	ADVANCED DEVELOPMENT INC
			Structure Desc: COLONIAL
			Scale: N.T.S.
			LEED SHEET

PLEASE CHECK APPROPRIATE BOX, SIGN, DATE, AND RETURN TO N.E.H. PLANS NOT CHECKED, SIGNED, AND DATED WILL BE RETURNED 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 FOLLOWING:

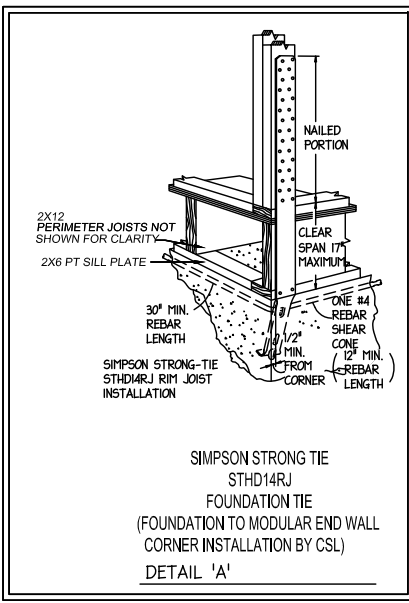
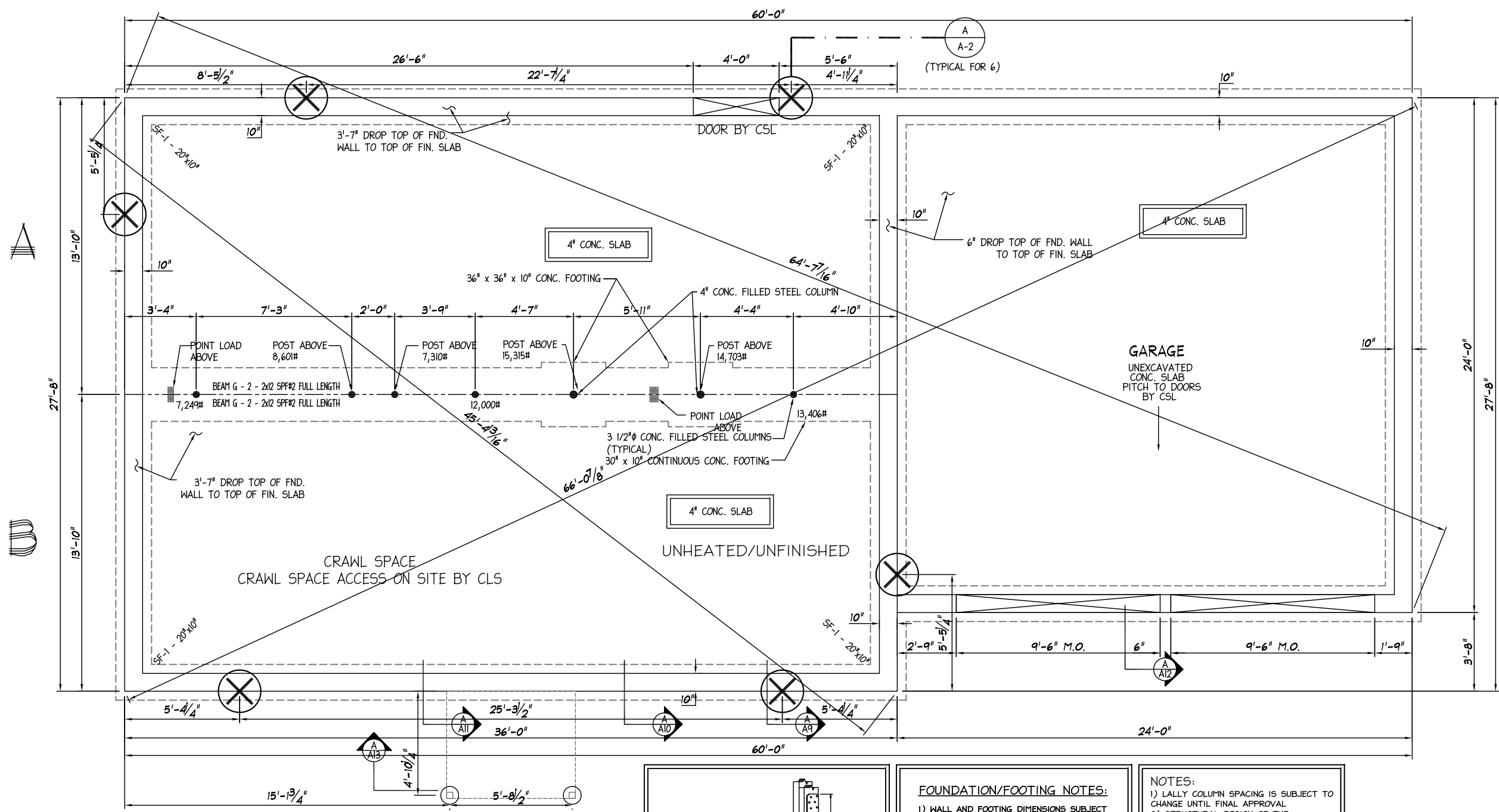
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REVISE THE PLANS AS NOTED AND RELEASE THESE PLANS FOR PRODUCTION.

REVISE THESE PLANS AS NOTED AND SEND ME ANOTHER SET OF PERMIT PLANS TO REVIEW.

Signature _____ Date _____

NEH ENGLAND HOMES INDEPENDENT BUILDERS DULY AUTHORIZED AGENT PER CONTRACT AGREEMENT



FOUNDATION/FOOTING NOTES:

- 1) WALL AND FOOTING DIMENSIONS SUBJECT TO SOIL CONDITIONS AND LOCAL BUILDING CODE REQUIREMENT

CRAWL SPACE NOTES:

CSL TO PROVIDE CRAWL SPACE VENTING PER R408

NOTES:

- 1) LALLY COLUMN SPACING IS SUBJECT TO CHANGE UNTIL FINAL APPROVAL
- 2) STRUCTURAL DESIGN OF THE FOUNDATION PER SITE CONDITIONS AND LOCAL AND/OR STATE CODES NOT BY N.E.H.
- 3) BULKHEAD AND SUMP, SIZE AND LOCATION PER SITE CONDITIONS NOT BY N.E.H.
- 4) STUB WALLS, WHETHER SUPPLIED & INSTALLED ON SITE BY THE COMPANY OR BY THE CONSTRUCTION SUPERVISOR LICENSEE, MUST BE SHEATHED WITH STRUCTURAL SHEATHING AND ADEQUATELY BRACED (PRIOR TO THE SETTING OF THE MODULAR UNITS), IN ORDER TO WITHSTAND THE FORCES IMPOSED ON THEM DURING THE MODULAR SET.
- 5) THE CONSTRUCTION SUPERVISOR LICENSEE SHALL SUPPLY & INSTALL TO THE FRAME DIMENSIONS OF THE HOUSE ALL SITE SILLS & SILL SEALER SQUARE AND LEVEL BEFORE THE ARRIVAL OF THE MODULAR AND PANELIZED PORTIONS FOR SET BY NEH.
- 6) CRAWL SPACES REQUIRE VENTILATION OPENINGS WITH NET AREA NOT LESS THAN ISF/300SF OF FOUNDATION SPACE PER APPLICABLE CODES. ONE VENT OPENING TO BE WITHIN 3' OF EACH CORNER.

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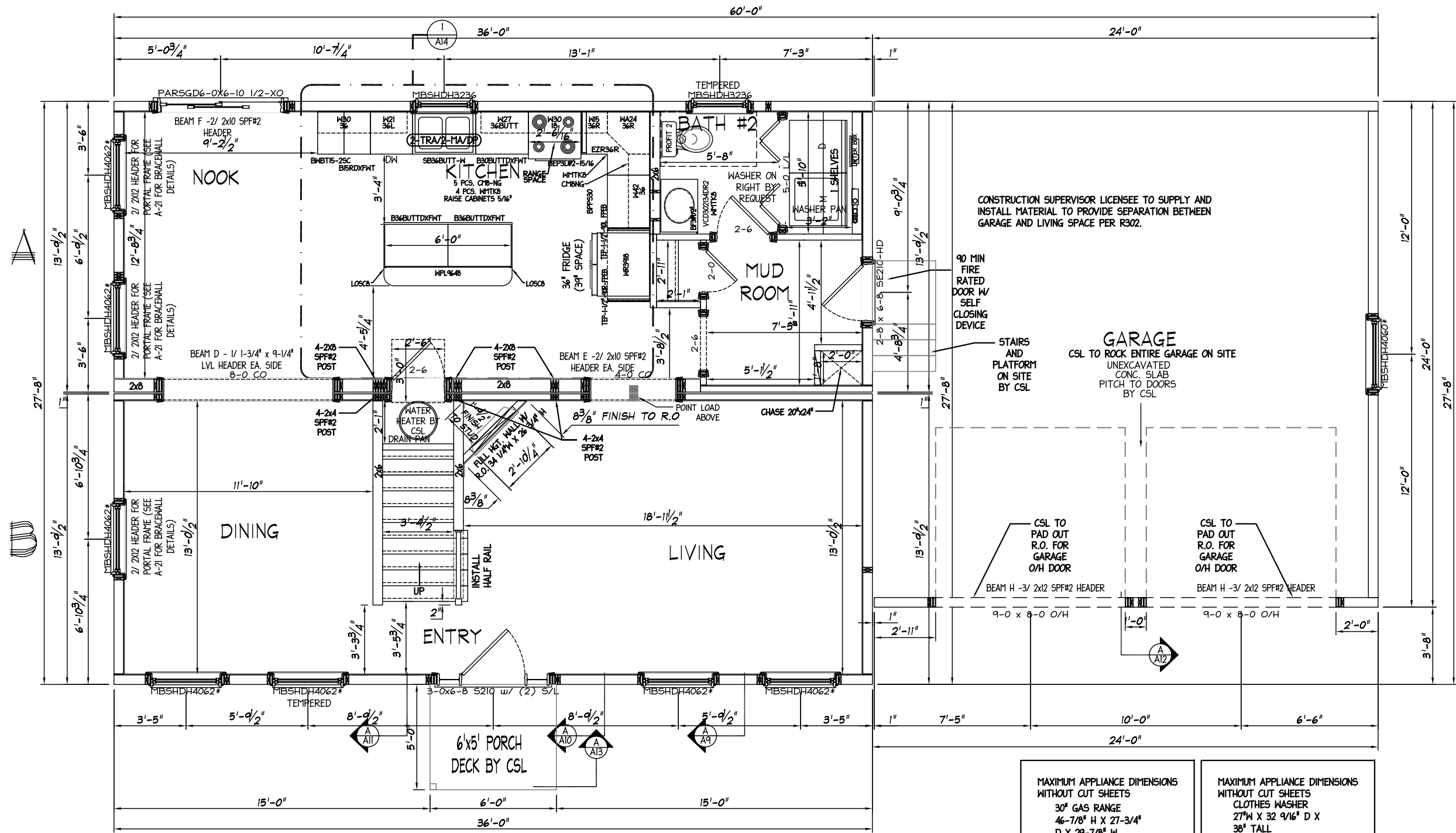
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	Revisions:	JMS RTA	
Revision:	C	JMS RTA	ADVANCED DEVELOPMENT INC Structure Desc: COLONIAL Scale: 3/16"=1'-0"
Sheet:	A-2	RTA	

FOUNDATION PLAN

Signature: _____ Date: _____
 NEN ENGLAND HOMES INDEPENDENT BUILDERS DULY AUTHORIZED AGENT PER CONTRACT AGREEMENT



LOAD BEARING HEADERS:

- ALL MATE WALL OPENING HEADER TO BE (2) 2x10 SPF#2, EACH SIDE, UNLESS NOTED OTHERWISE
- ALL EXTERIOR DOOR/WINDOW HEADERS TO BE (2) 2x10 SPF#2, UNLESS NOTED OTHERWISE

NOTES:

- INSTALL 1/4" DENSSHIELD ON FLOORS OF BATH 2, BATH 3 AND M. BATH
- ALL DIMENSIONS ARE STUD TO STUD UNLESS NOTED OTHERWISE.
- * = EGRESS WINDOW

LABEL AND DATA PLATE INDEX:

TRA THIRD PARTY LABEL
MA MASSACHUSETTS STATE LABEL
DP DATA PLATE

TRA/MA/DP
DP

MAXIMUM APPLIANCE DIMENSIONS WITHOUT CUT SHEETS

30" GAS RANGE
46-7/8" H X 27-3/4" D X 29-7/8" W

30" ELECTRIC RANGE
46-7/8" H X 27-3/4" D X 29-7/8" W

21.7 CU. FT. FRIDGE
69.75" H X 34.75" D X 36" W

DISH WASHER
23 7/8" W X 24 1/2" D X 34 1/2" TALL

MAXIMUM APPLIANCE DIMENSIONS WITHOUT CUT SHEETS

CLOTHES WASHER
27" W X 32 9/16" D X 38" TALL

CLOTHES DRYER
27" W X 32 9/16" D X 38" TALL

WALL OVEN SINGLE
30" W X 26 7/16" D X 28 3/4" T

WALL OVEN DOUBLE
30" W X 26 7/16" D X 1/2" T

COOK TOP
30 13/16" W X 21 3/4" D X 3 3/4" T

PERMIT PLANS

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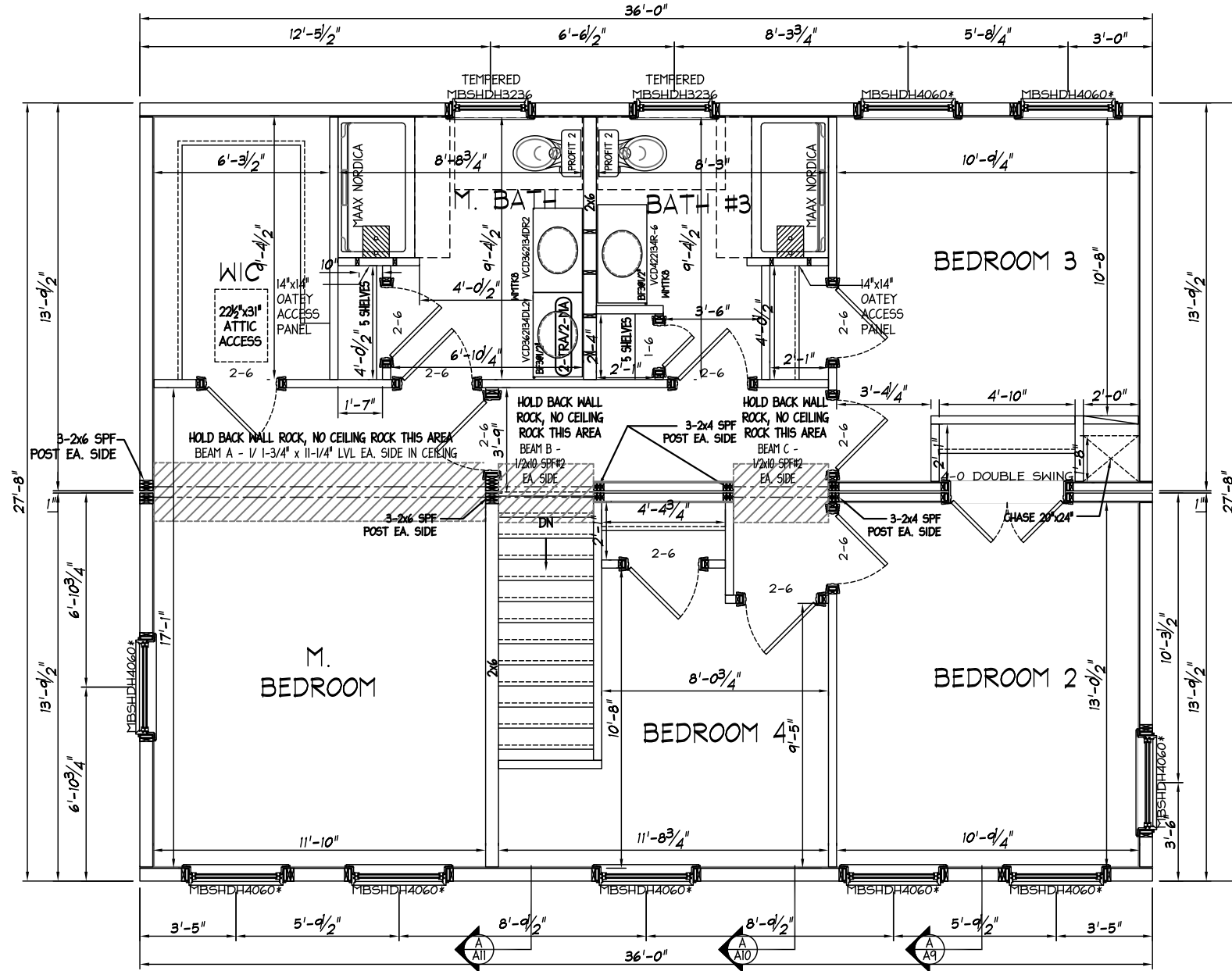
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www.newenglandhomes.net
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ADVANCED DEVELOPMENT INC
Structure Desc: COLONIAL
Scale: 3/16"=1'-0"

FIRST FLOOR PLAN

Drawn:	JMS
Revisions:	JMS
	JMS
	RTA
	RTA

11426
Revision: C
Sheet: A-3



LABEL AND DATA PLATE INDEX:
 TRA THIRD PARTY LABEL
 MA MASSACHUSETTS STATE LABEL
 DP DATA PLATE

TRA/MA/DP
 TRA/MA
 DP

LOAD BEARING HEADERS:
 • ALL MATE WALL OPENING HEADER TO BE (2) 2x10 SPF#2, EACH SIDE, UNLESS NOTED OTHERWISE
 • ALL EXTERIOR DOOR/WINDOW HEADERS TO BE (2) 2x10 SPF#2, UNLESS NOTED OTHERWISE

11426	Drawn:	JM5
	Revisions	JM5
Revision: C		JM5
		RTA
Sheet: A-4	Builder:	RTA
	Scale:	3/16"=1'-0"

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ADVANCED DEVELOPMENT INC
 Structure Desc: COLONIAL
SECOND FLOOR PLAN

PERMIT PLANS
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FRONT ELEVATION

OVERHEAD DOOR IS SUPPLIED AND INSTALLED ONSITE-
RESPONSIBILITY OF CONSTRUCTION SUPERVISOR LICENSEE.
PANELIZED GARAGE

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ADVANCED DEVELOPMENT INC
 Structure Desc: COLONIAL
 Scale: 3/16"=1'-0"

FRONT ELEVATION

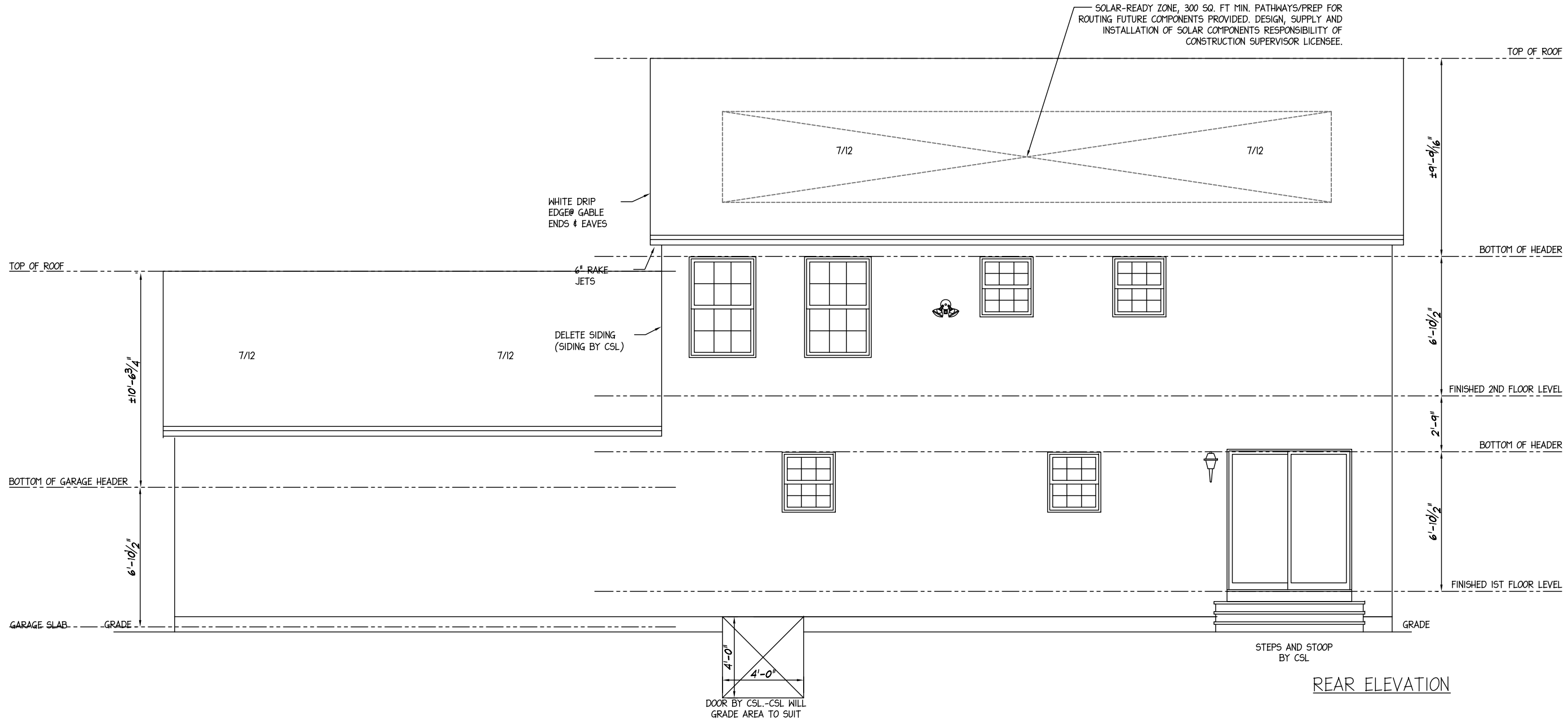
Drawn:	JMS
Revisions	
4/28/21	JMS
5/12/21	JMS
6/17/2021	RTA
6/28/2021	RTA

11426

Revision: C

Sheet: A-5

Signature _____ Date _____
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REAR ELEVATION

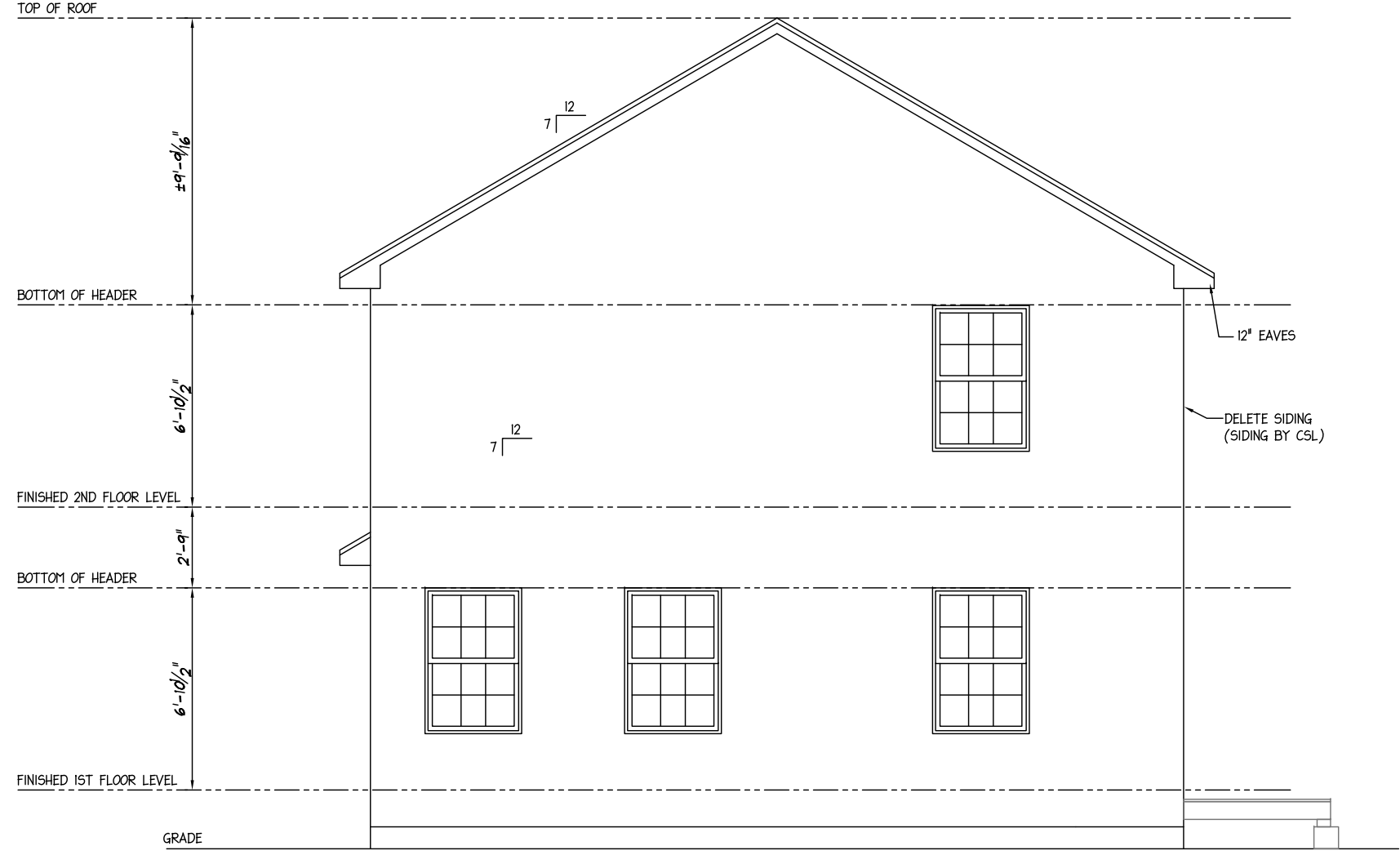
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11426	Drawn:	JMS
	Revisions	
Revision: C	4/28/21	JMS
	5/12/21	JMS
Sheet: A-6	6/17/2021	RTA
	6/28/2021	RTA
		277 Locust Street, Suite B Dover, NH 03820 www.newenglandhomes.net (Telephone) 800.800.8831 (Fax) 603.431.9540
ADVANCED DEVELOPMENT INC Structure Desc: COLONIAL Scale: 3/16"=1'-0"		REAR ELEVATION
Signature _____		Date _____

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LEFT ELEVATION

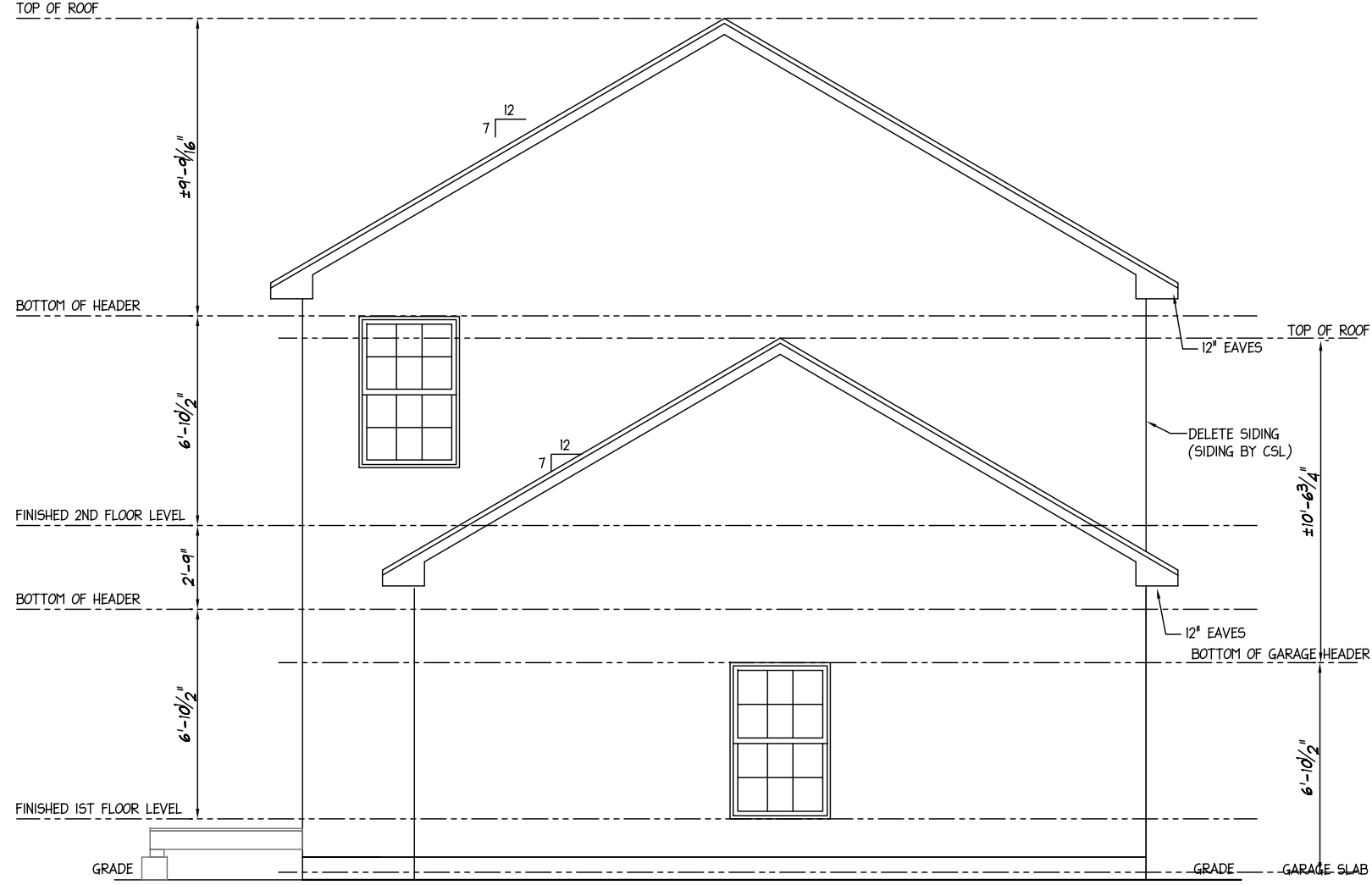
ALL STAIRS, DECKS, RAILINGS ETC. TO GRADE TO BE DESIGNED AND CONSTRUCTED ON SITE. RESPONSIBILITY OF CONSTRUCTION SUPERVISOR LICENSEE.

11426	Drawn:	JMS	New England Homes 277 Locust Street, Suite B Dover, NH 03820 www.newenglandhomes.net (telephone):800.800.8831 (fax):603.431.8540
	Revisions	JMS	
	4/28/21	JMS	
	5/12/21	JMS	
Revision:	C	RTA	ADVANCED DEVELOPMENT INC Structure Desc: COLONIAL Scale: 3/16"=1'-0"
Sheet:	A-7	RTA	
Signature: _____ Date: _____ <small>NEW ENGLAND HOMES INDEPENDENT BUILDERS DULY AUTHORIZED AGENT PER CONTRACT AGREEMENT</small>			LEFT ELEVATION

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FRONT PORCH:
ROOF BUILT BY FACTORY;
INSTALLED ONSITE BY CI PER
SITE REF. MANUAL

RIGHT ELEVATION

ALL STAIRS, DECKS, RAILINGS ETC. TO GRADE TO BE
DESIGNED AND CONSTRUCTED ON SITE. RESPONSIBILITY
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ADVANCED DEVELOPMENT INC
Structure Desc: COLONIAL

Scale: 3/16"=1'-0"

RIGHT ELEVATION

Drawn:	JMS
Revisions	
4/28/21	JMS
5/12/21	JMS
6/17/2021	RTA
6/28/2021	RTA

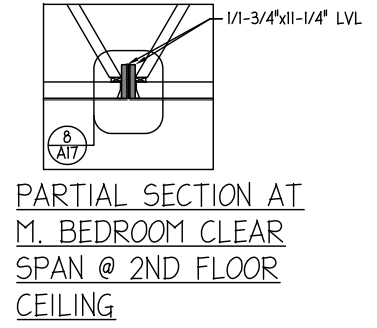
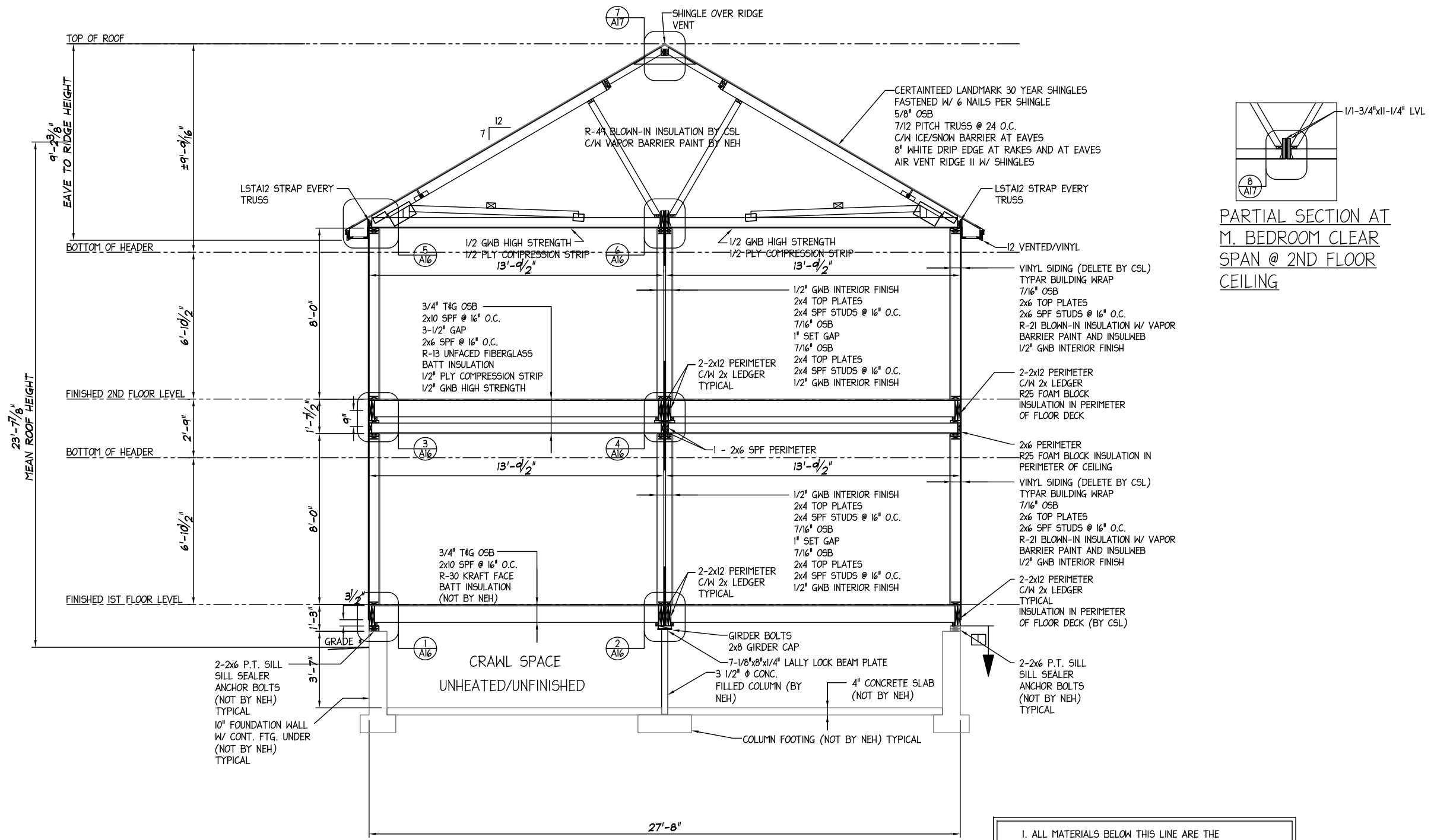
11426

Revision: **C**

Sheet: **A-8**

Signature _____ Date _____

NEW ENGLAND HOMES INDEPENDENT BUILDERS DULY AUTHORIZED AGENT PER CONTRACT AGREEMENT



SECTION A/A9

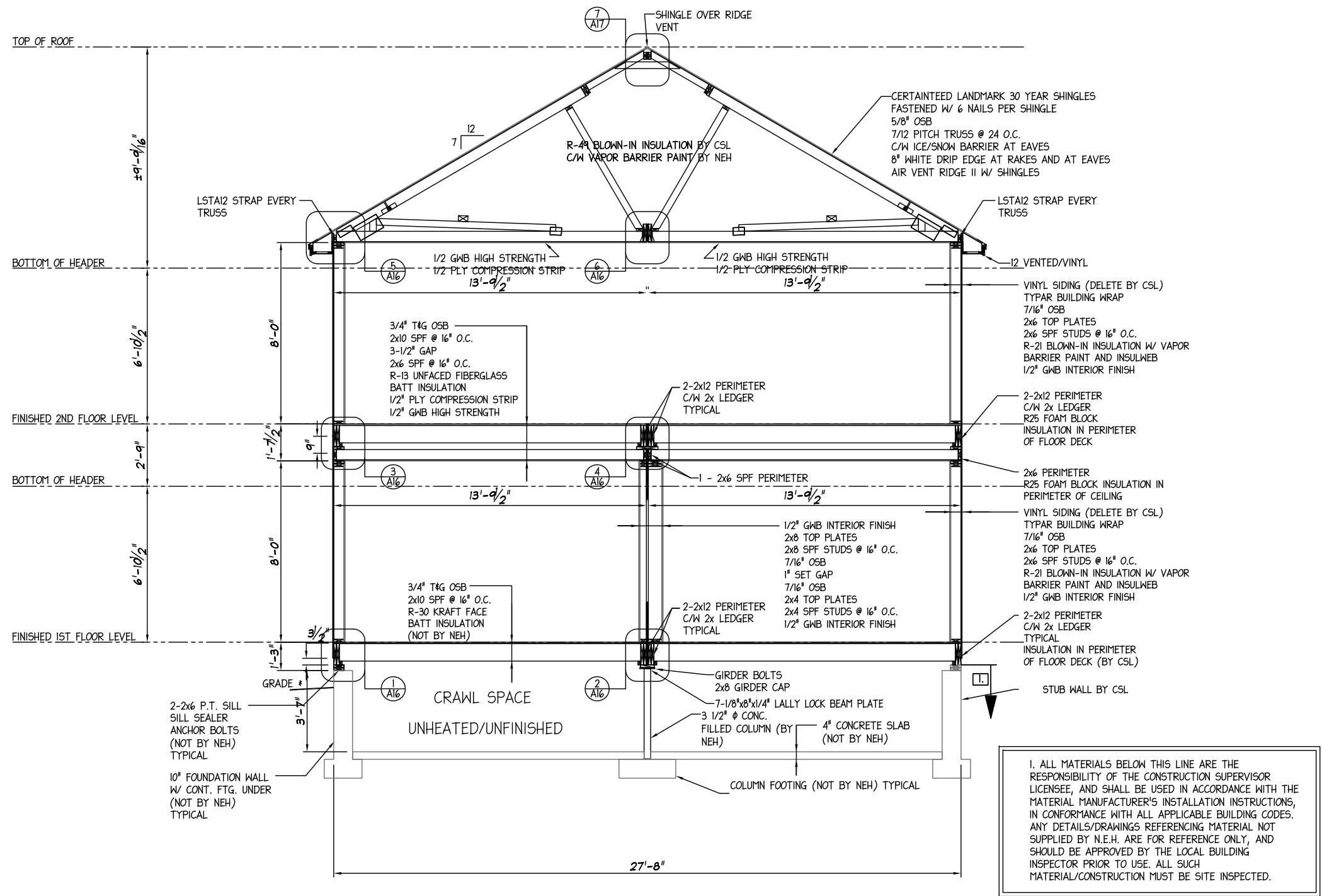
1. ALL MATERIALS BELOW THIS LINE ARE THE RESPONSIBILITY OF THE CONSTRUCTION SUPERVISOR LICENSEE, AND SHALL BE USED IN ACCORDANCE WITH THE MATERIAL MANUFACTURER'S INSTALLATION INSTRUCTIONS, IN CONFORMANCE WITH ALL APPLICABLE BUILDING CODES. ANY DETAILS/DRAWINGS REFERENCING MATERIAL NOT SUPPLIED BY N.E.H. ARE FOR REFERENCE ONLY, AND SHOULD BE APPROVED BY THE LOCAL BUILDING INSPECTOR PRIOR TO USE. ALL SUCH MATERIAL/CONSTRUCTION MUST BE SITE INSPECTED.

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	<p>ADVANCED DEVELOPMENT INC</p> <p style="font-size: x-small;">Structure Desc: COLONIAL</p>	<p>3/16"-1'-0"</p> <p style="font-size: x-small;">Scale:</p>
<p>11426</p>	Drawn: 4/28/21 JMS Revisions: 4/28/21 JMS 5/12/21 JMS 6/17/2021 RTA 6/28/2021 RTA	Builder: RTA Date:
<p>C</p>	<p>A-9</p>	<p>CROSS SECTION</p>



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SECTION A/A10

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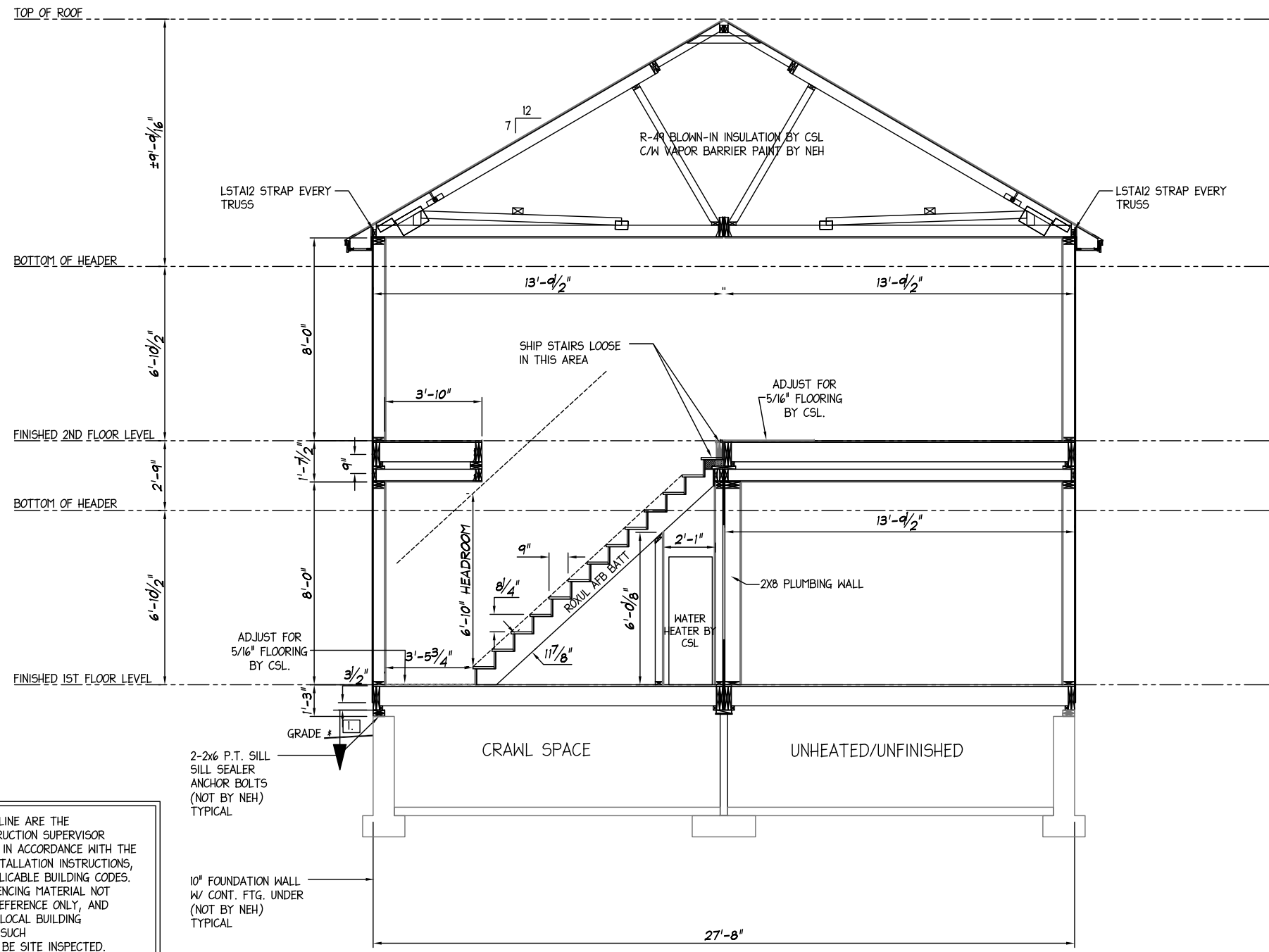
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ADVANCED DEVELOPMENT INC
 Structure Desc: COLONIAL
 Scale: 3/16"=1'-0"
CROSS SECTION

Drawn:	JMS
Revisions:	JMS
	JMS
	RTA
	RTA
11426	
Revision:	C
Sheet:	A-10

Signature _____ Date _____
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SECTION A/A11

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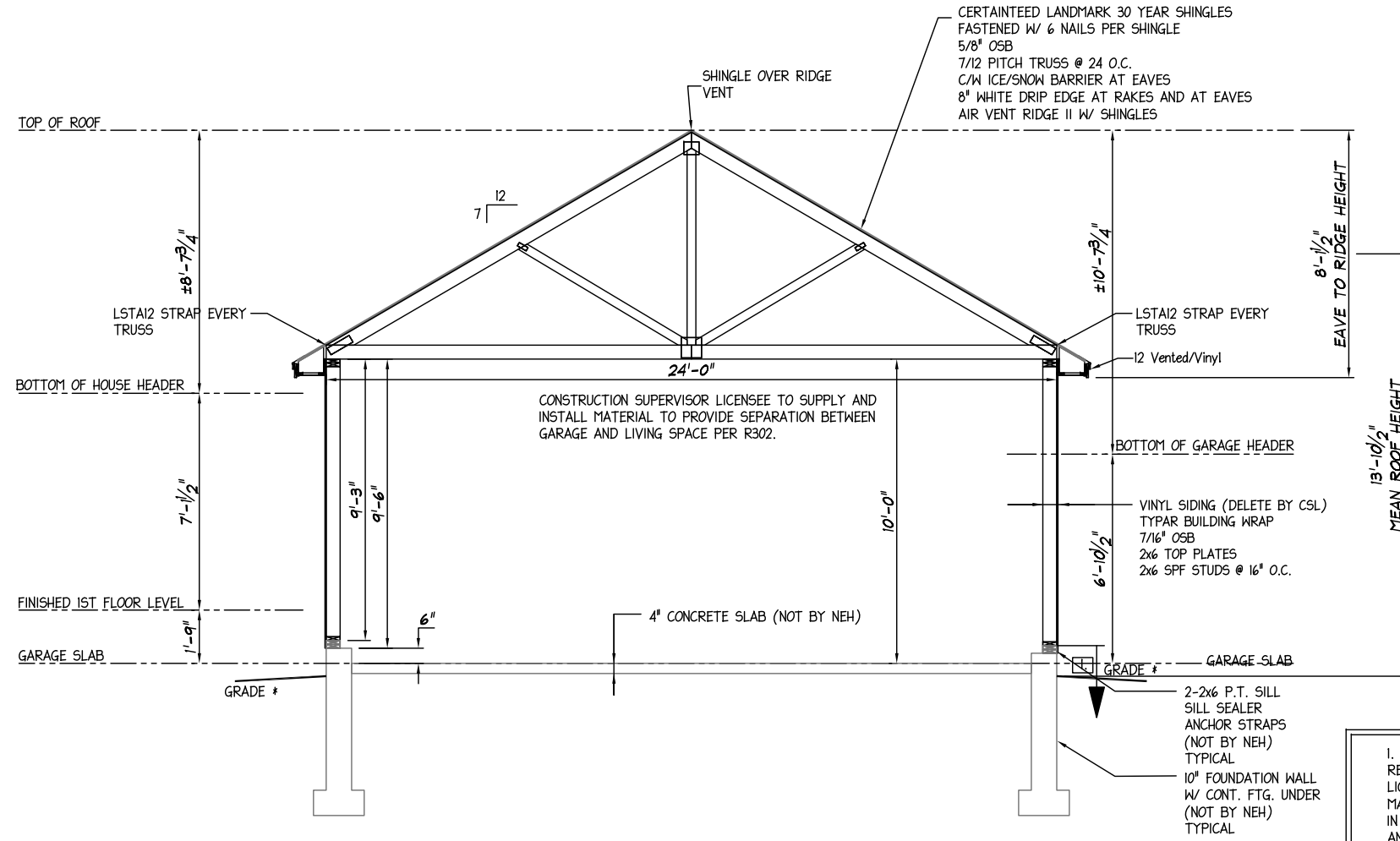
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ADVANCED DEVELOPMENT INC
 Structure Desc: COLONIAL
 Scale: 3/16"=1'-0"
CROSS SECTION

Drawn:	JMS
Revisions	JMS
4/28/21	JMS
5/12/21	RTA
6/17/2021	RTA
6/28/2021	RTA
11426	
Revision:	C
Sheet:	A-11

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1. ALL MATERIALS BELOW THIS LINE ARE THE RESPONSIBILITY OF THE CONSTRUCTION SUPERVISOR LICENSEE, AND SHALL BE USED IN ACCORDANCE WITH THE MATERIAL MANUFACTURER'S INSTALLATION INSTRUCTIONS, IN CONFORMANCE WITH ALL APPLICABLE BUILDING CODES. ANY DETAILS/DRAWINGS REFERENCING MATERIAL NOT SUPPLIED BY N.E.H. ARE FOR REFERENCE ONLY, AND SHOULD BE APPROVED BY THE LOCAL BUILDING INSPECTOR PRIOR TO USE. ALL SUCH MATERIAL/CONSTRUCTION MUST BE SITE INSPECTED.

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CROSS SECTION

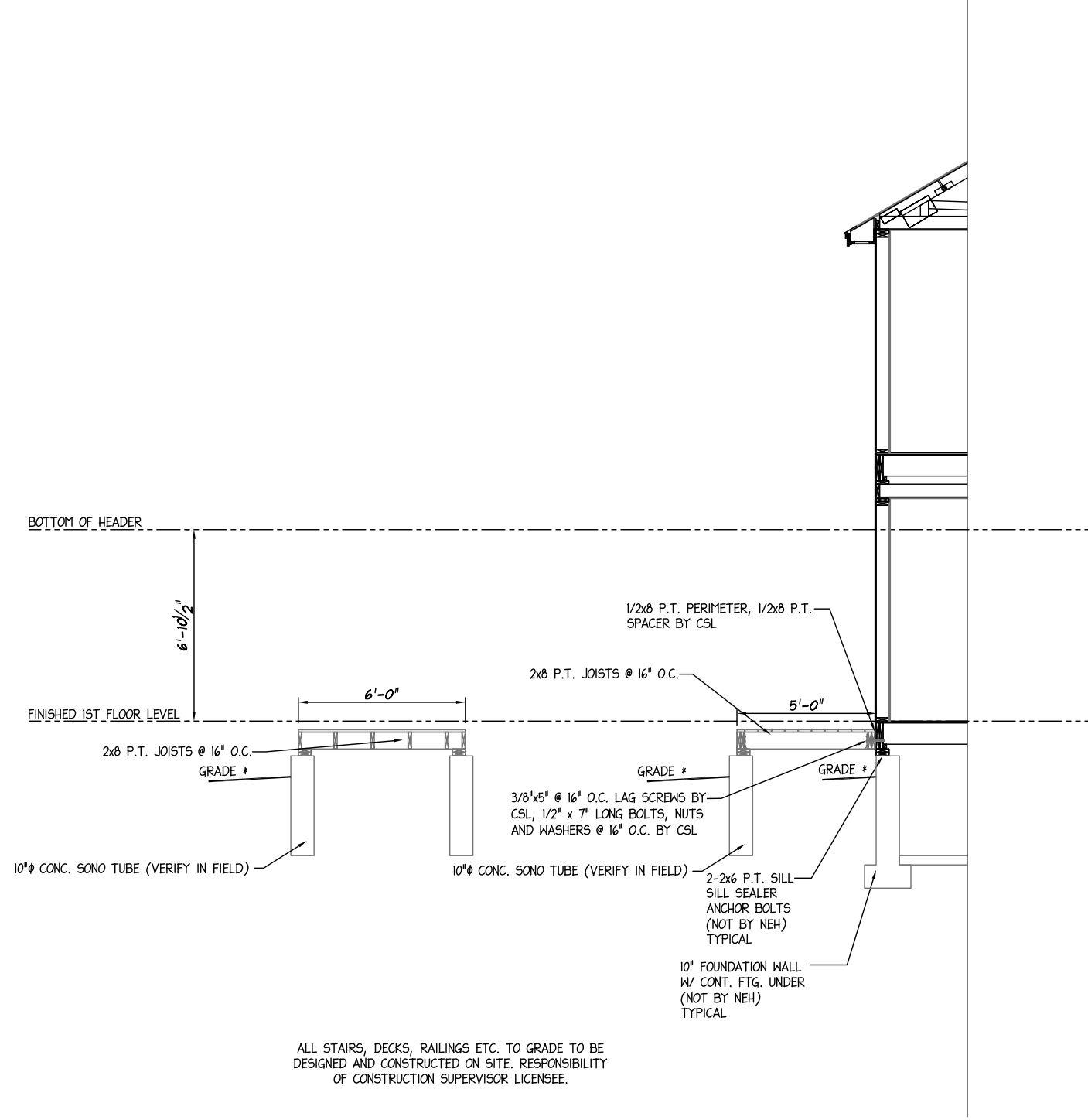
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4/28/21	JMS
5/12/21	JMS
6/17/2021	RTA
6/28/2021	RTA

11426

Revision: C

Sheet: A-12

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ALL STAIRS, DECKS, RAILINGS ETC. TO GRADE TO BE DESIGNED AND CONSTRUCTED ON SITE. RESPONSIBILITY OF CONSTRUCTION SUPERVISOR LICENSEE.

SECTION A/A13

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4/28/21 JMS

5/12/21 JMS

6/17/2021 RTA

6/28/2021 RTA

11426

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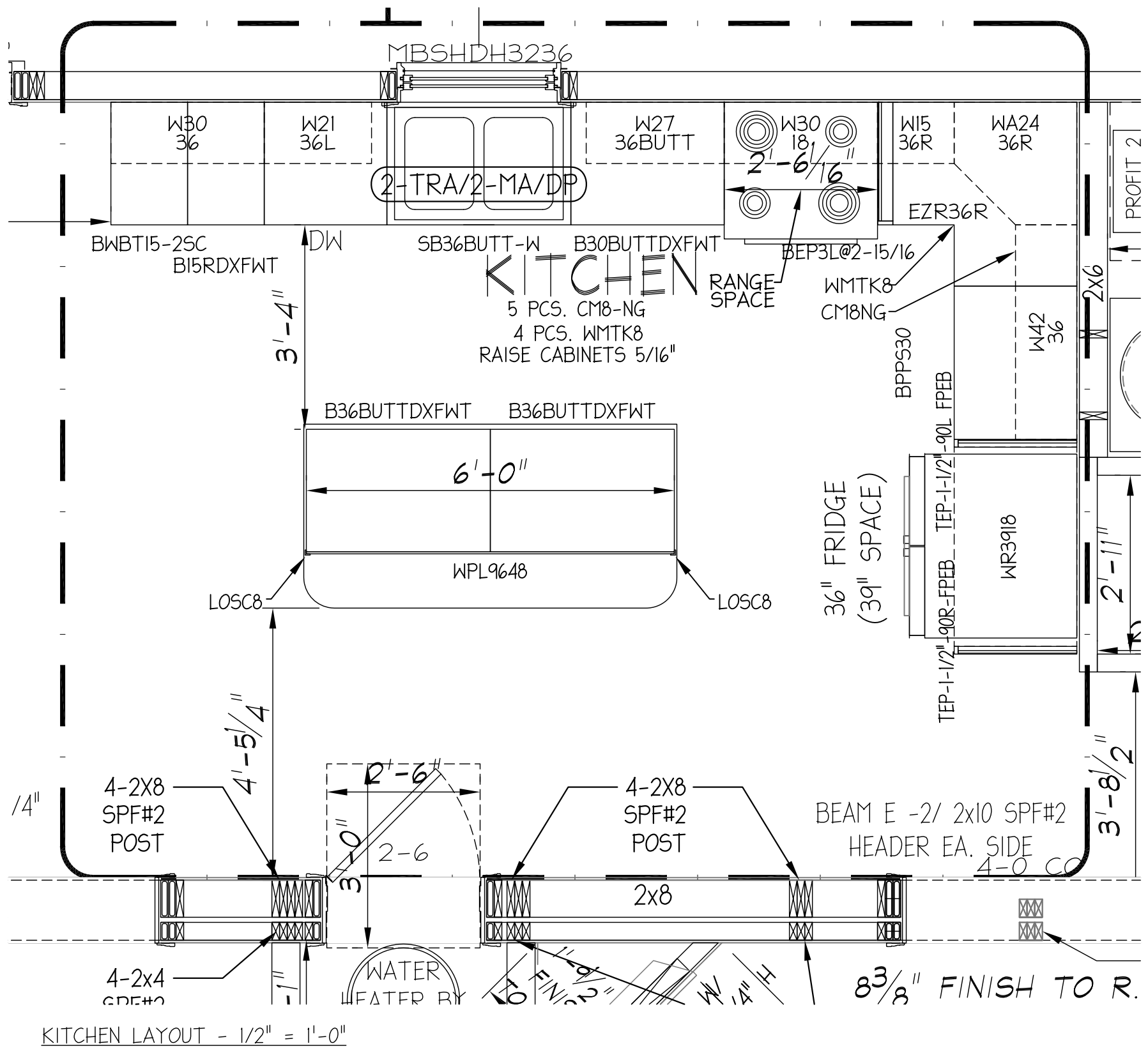
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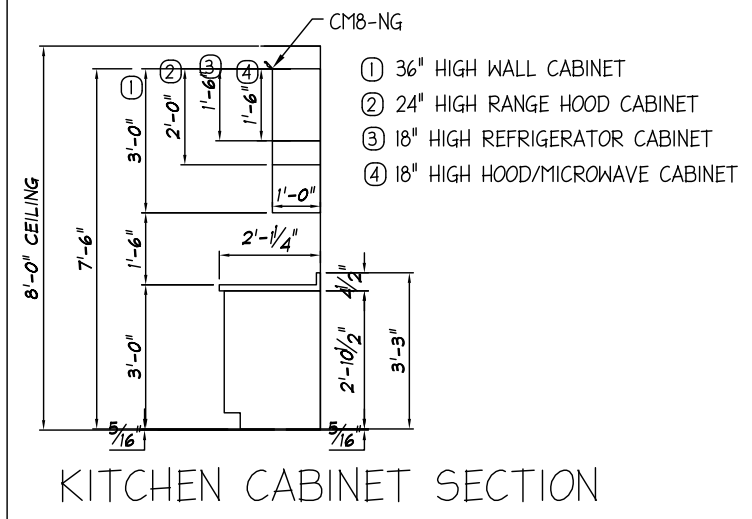
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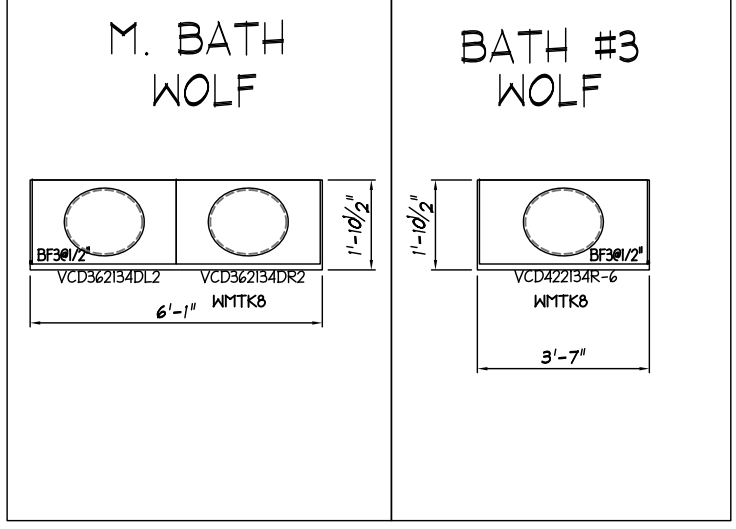
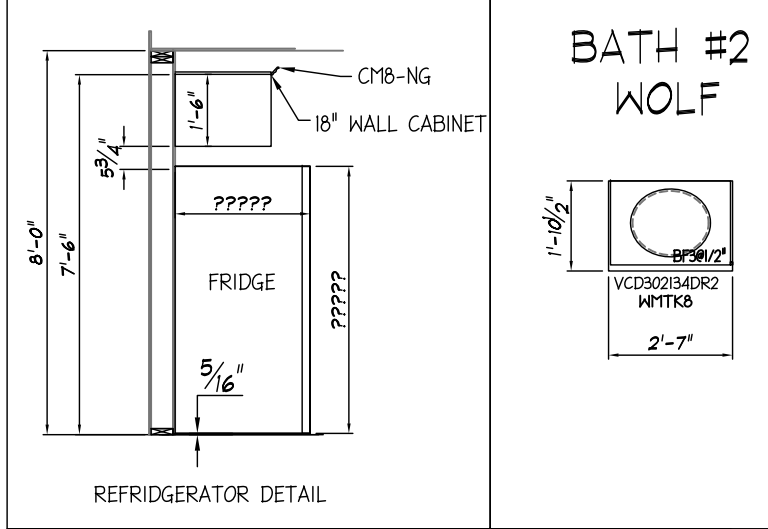
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KITCHEN LAYOUT - 1/2" = 1'-0"



KITCHEN CABINET SECTION



KITCHEN LAYOUT - 1/4" = 1'-0"

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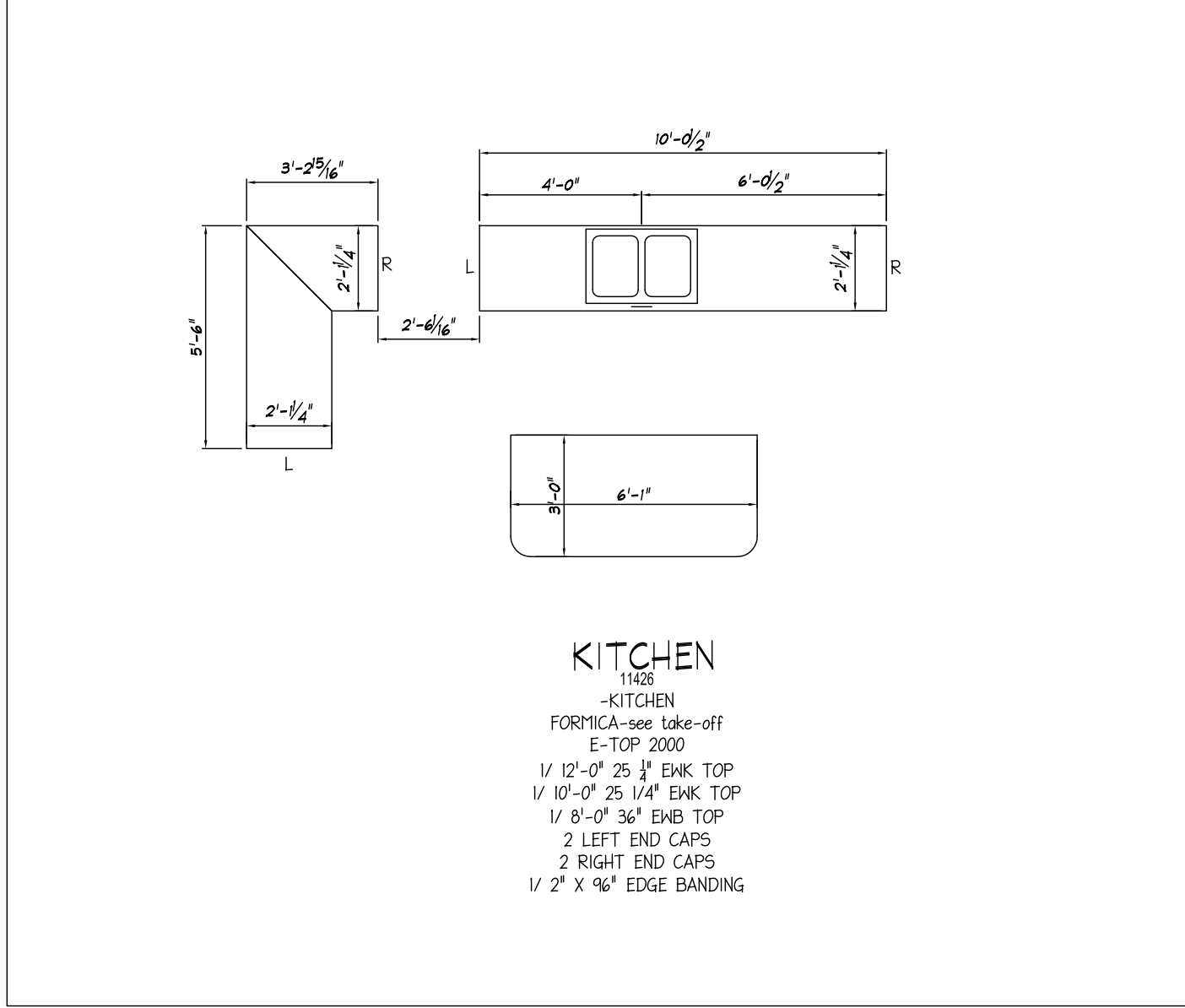
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KITCHEN DETAILS

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Sheet:	A-14

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KITCHEN DETAIL - 1/4" = 1'-0"



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	Revisions	JMS	
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Sheet:	A-15	RTA	
		RTA	ADVANCED DEVELOPMENT INC
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			Scale: AS NOTED
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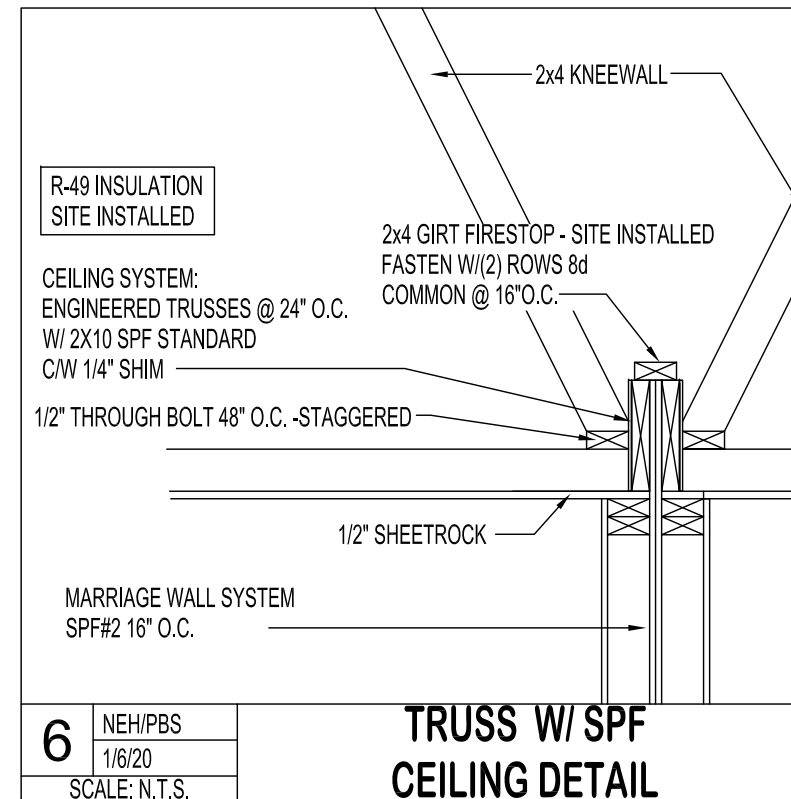
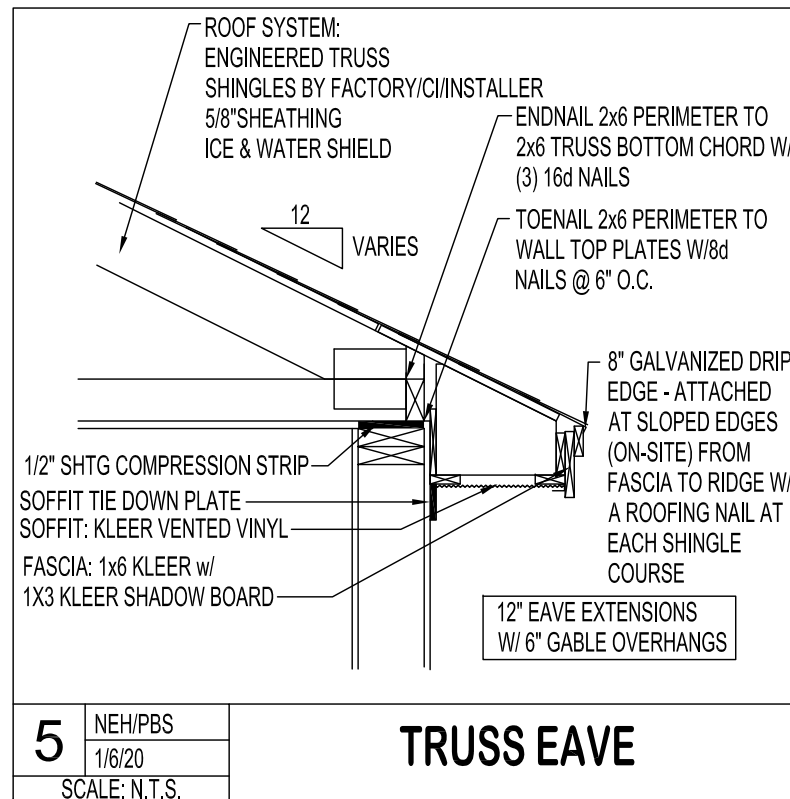
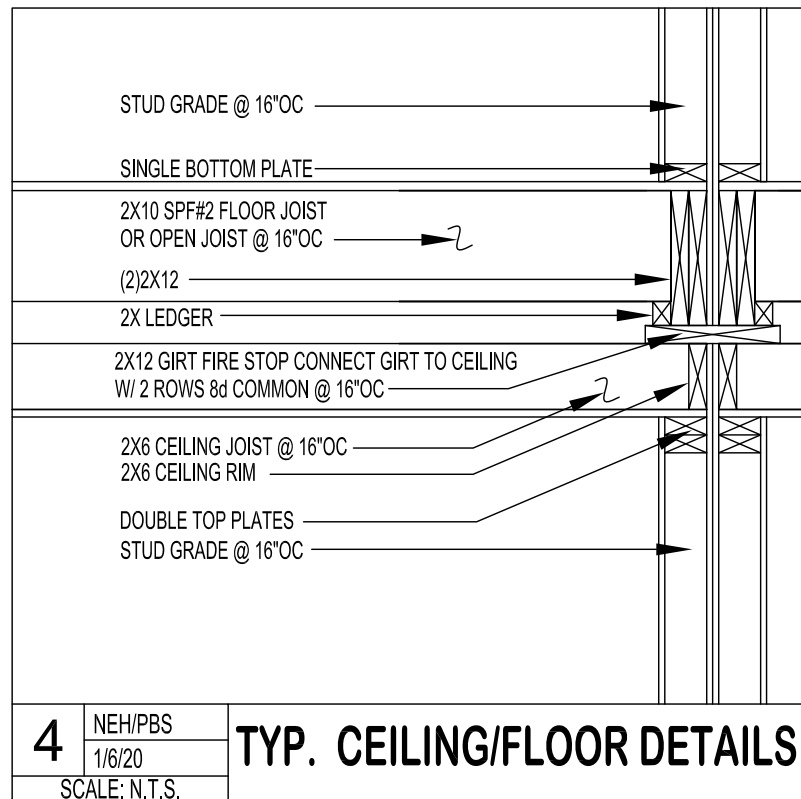
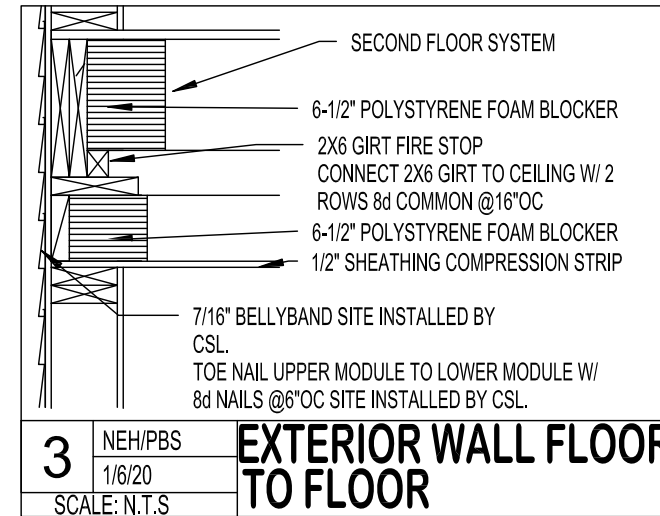
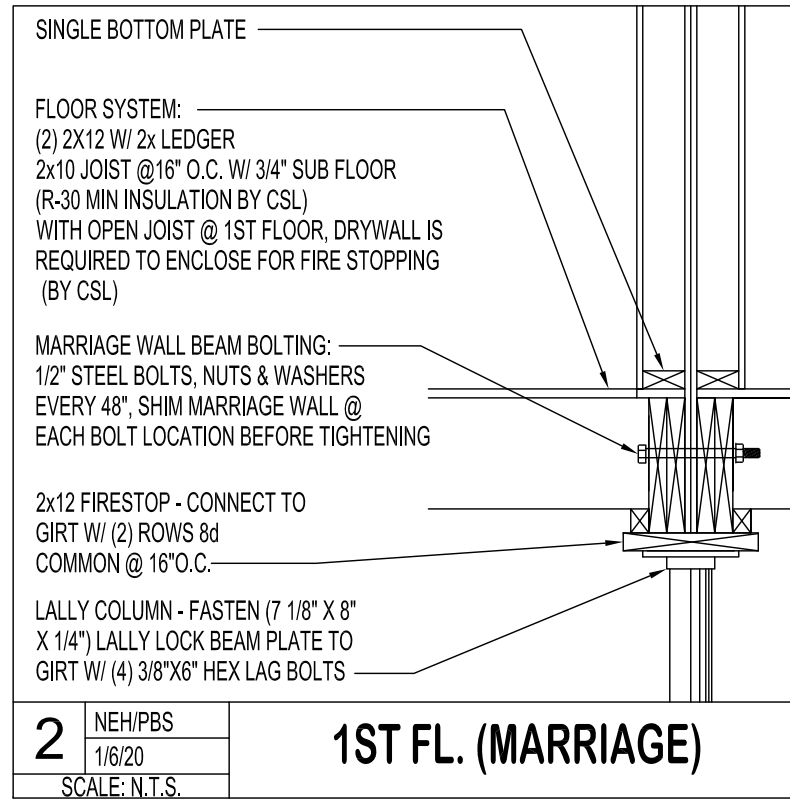
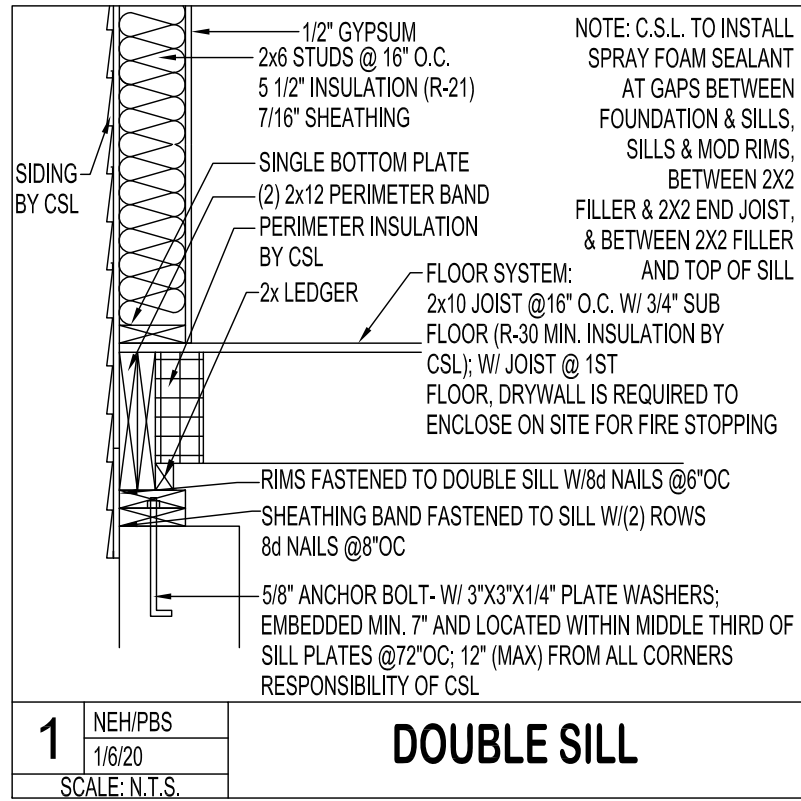
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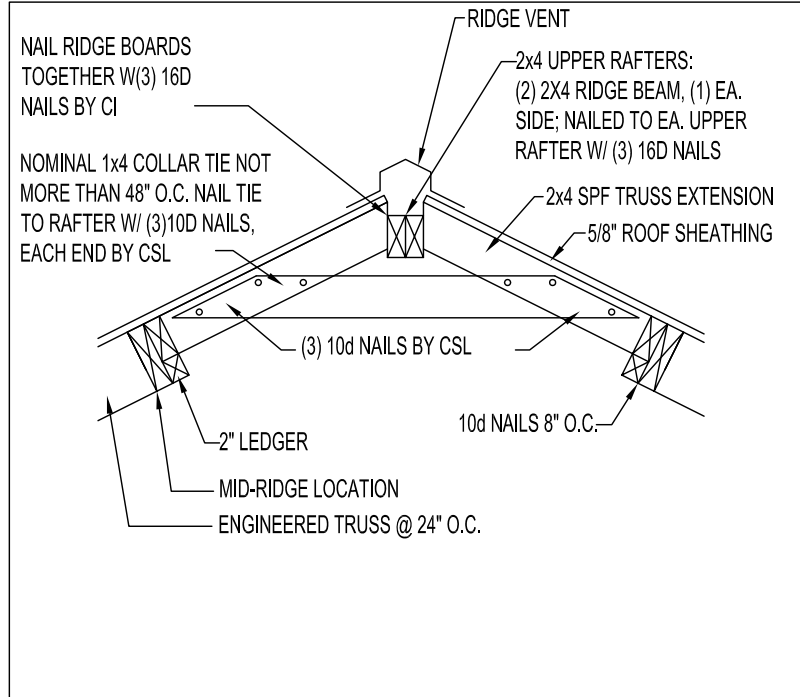
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Scale: **N.T.S.**
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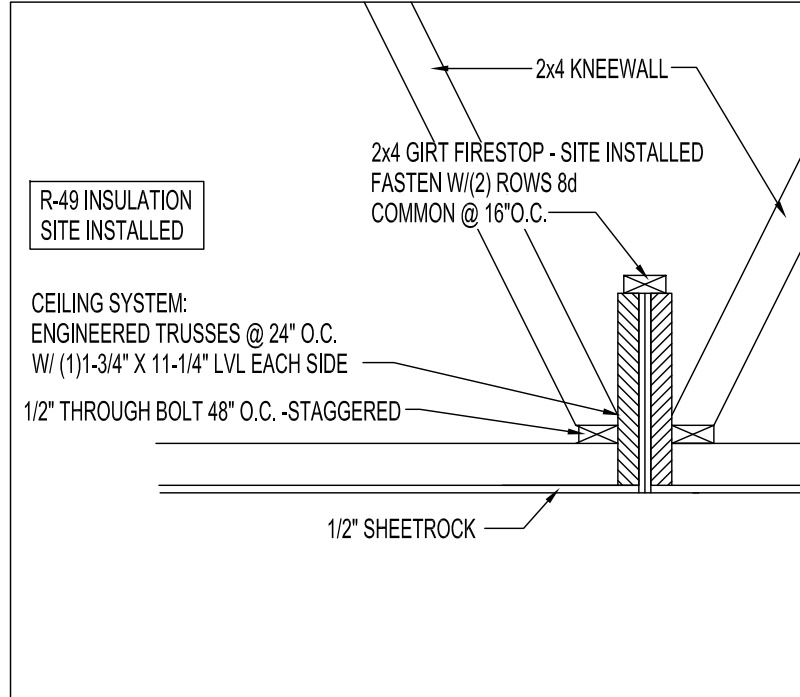
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Revisions	RTA
1/22/2020	
	RTA
1/30/2020	
	RTA
2/27/2020	

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Sheet: **A-16**



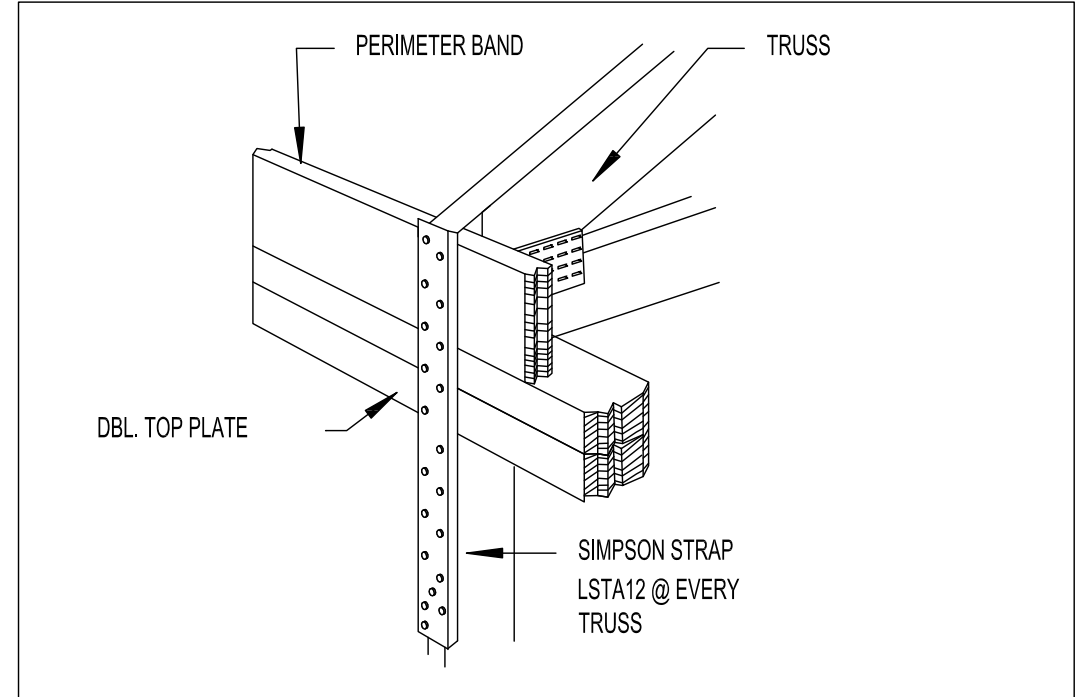
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RIDGE AND COLLAR TIE DETAIL

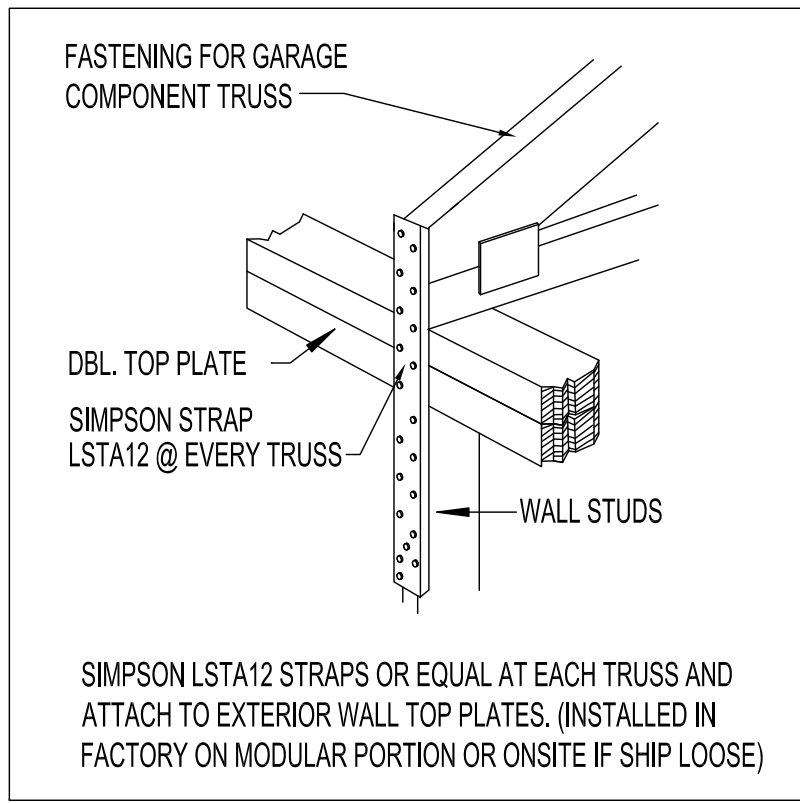


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TRUSS W/ LVL CEILING DETAIL



SIMPSON LSTA12 STRAPS OR EQUAL AT EACH TRUSS AND ATTACH TO EXTERIOR WALL TOP PLATES. (INSTALLED IN FACTORY ON MODULAR PORTION OR ONSITE IF SHIP LOOSE)



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1/30/2020	RTA
2/27/2020	RTA

11382
Revision: **C**
Sheet: **A-17**

2015 IRC - TABLE R602.3(1) FASTENING SCHEDULE

ITEM	DESCRIPTION OF BUILDING ELEMENTS	NUMBER AND TYPE OF FASTENER a, b, c	SPACING AND LOCATION
Roof			
1	Blocking between ceiling joists or rafters to top plate	4-8d box (2 1/2" x 0.113") or 3-8d common (2 1/2" x 0.131"); or 3-10d box (3" x 0.128"); or 3-3" x 0.131" nails	Toe nail
2	Ceiling joists to top plate	4-8d box (2 1/2" x 0.113"); or 3-8d common (2 1/2" x 0.131"); or 3-10d box (3" x 0.128"); or 3-3" x 0.131" nails	Per joist, toe nail
3	Ceiling joist not attached to parallel rafter, laps over partitions [see Sections R802.3.1, R802.3.2 and Table R802.5.1(9)]	4-10d box (3" x 0.128"); or 3-16d common (3 1/2" x 0.162"); or 4-3" x 0.131" nails	Face nail
4	Ceiling joist attached to parallel rafter (heel joint) [see Sections R802.3.1 and R802.3.2 and Table R802.5.1(9)]	Table R802.5.1(9)	Face nail
5	Collar tie to rafter, face nail or 1 1/4" x 20 ga. ridge strap to rafter	4-10d box (3" x 0.128"); or 3-10d common (3" x 0.148"); or 4-3" x 0.131" nails	Face nail each rafter
6	Rafter or roof truss to plate	3-16d box nails (3 1/2" x 0.135"); or 3-10d common nails (3" x 0.148"); or 4-10d box (3" x 0.128"); or 4-3" x 0.131" nails	2 toe nails on one side and 1 toe nail on opposite side of each rafter or truss ⁱ
7	Roof rafters to ridge, valley or hip rafters or roof rafter to minimum 2" ridge beam	4-16d (3 1/2" x 0.135"); or 3-10d common (3 1/2" x 0.148"); or 4-10d box (3" x 0.128"); or 4-3" x 0.131" nails	Toe nail
		3-16d box 3 1/2" x 0.135"); or 2-16d common (3 1/2" x 0.162"); or 3-10d box (3" x 0.128"); or 3-3" x 0.131" nails	End nail

Wall			
8	Stud to stud (not at braced wall panels)	16d common (3 1/2" x 0.162")	24" o.c. face nail
		10d box (3" x 0.128"); or 3" x 0.131" nails	16" o.c. face nail
9	Stud to stud and abutting studs at intersecting wall corners (at braced wall panels)	16d box (3 1/2" x 0.135"); or 3" x 0.131" nails	12" o.c. face nail
		16d common (3 1/2" x 0.162")	16" o.c. face nail
10	Built-up header (2" to 2" header with 1/2" spacer)	16d common (3 1/2" x 0.162")	16" o.c. each edge face nail
		16d box (3 1/2" x 0.135")	12" o.c. each edge face nail
11	Continuous header to stud	5-8d box (2 1/2" x 0.113"); or 4-8d common (2 1/2" x 0.131"); or 4-10d box (3" x 0.128")	Toe nail
12	Top plate to top plate	16d common (3 1/2" x 0.162")	16" o.c. face nail
		10d box (3" x 0.128"); or 3" x 0.131" nails	12" o.c. face nail
13	Double top plate splice for SDCs A-D ₂ with seismic braced	8-16d common (3 1/2" x 0.162"); or	Face nail on each side of end joint
	wall line spacing < 25'	12-16d box (3 1/2" x 0.135"); or 12-10d box (3" x 0.128"); or 12-3" x 0.131" nails	(minimum 24" lap splice length each side of end joint)
	Double top plate splice SDCs D ₀ , D ₁ , or D ₂ ; and braced wall line spacing ≥ 25'	12-16d (3 1/2" x 0.135")	

(continued)

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ADVANCED DEVELOPMENT INC

Structure Desc: COLONIAL

DETAILS

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1/22/2020	
1/30/2020	RTA
2/27/2020	RTA

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Sheet: **A-18**

TABLE R602.3(1)—continued FASTENING SCHEDULE

ITEM	DESCRIPTION OF BUILDING ELEMENTS	NUMBER AND TYPE OF FASTENER ^{a, b, c}	SPACING AND LOCATION
14	Bottom plate to joist, rim joist, band joist or blocking (not at braced wall panels)	16d common (3 1/2" x 0.162")	16" o.c. face nail
		16d box (3 1/2" x 0.135"); or 3" x 0.131" nails	12" o.c. face nail
15	Bottom plate to joist, rim joist, band joist or blocking (at braced wall panel)	3-16d box (3 1/2" x 0.135"); or	3 each 16" o.c. face nail
		2-16d common (3 1/2" x 0.162"); or	2 each 16" o.c. face nail
		4-3" x 0.131" nails	4 each 16" o.c. face nail
16	Top or bottom plate to stud	4-8d box (2 1/2" x 0.113"); or 3-16d box (3 1/2" x 0.135"); or 4-8d common (2 1/2" x 0.131"); or 4-10d box (3" x 0.128"); or 4-3" x 0.131" nails	Toe nail
		3-16d box (3 1/2" x 0.135"); or 2-16d common (3 1/2" x 0.162"); or 3-10d box (3" x 0.128"); or 3-3" x 0.131" nails	End nail
17	Top plates, laps at corners and intersections	3-10d box (3" x 0.128"); or 2-16d common (3 1/2" x 0.162"); or 3-3" x 0.131" nails	Face nail
18	1" brace to each stud and plate	3-8d box (2 1/2" x 0.113"); or 2-8d common (2 1/2" x 0.131"); or 2-10d box (3" x 0.128"); or 2 staples 1 3/4"	Face nail
19	1" x 6" sheathing to each bearing	3-8d box (2 1/2" x 0.113"); or 2-8d common (2 1/2" x 0.131"); or 2-10d box (3" x 0.128"); or 2 staples, 1" crown, 16 ga., 1 3/4" long	Face nail
20	1" x 8" and wider sheathing to each bearing	3-8d box (2 1/2" x 0.113"); or 3-8d common (2 1/2" x 0.131"); or 3-10d box (3" x 0.128"); or 3 staples, 1" crown, 16 ga., 1 3/4" long	Face nail
		Wider than 1" x 8" 4-8d box (2 1/2" x 0.113"); or 3-8d common (2 1/2" x 0.131"); or 3-10d box (3" x 0.128"); or 4 staples, 1" crown, 16 ga., 1 3/4" long	
Floor			
21	Joist to sill, top plate or girder	4-8d box (2 1/2" x 0.113"); or 3-8d common (2 1/2" x 0.131"); or 3-10d box (3" x 0.128"); or 3-3" x 0.131" nails	Toe nail
22	Rim joist, band joist or blocking to sill or top plate (roof applications also)	8d box (2 1/2" x 0.113")	4" o.c. toe nail
		8d common (2 1/2" x 0.131"); or 10d box (3" x 0.128"); or 3" x 0.131" nails	6" o.c. toe nail
23	1" x 6" subfloor or less to each joist	3-8d box (2 1/2" x 0.113"); or 2-8d common (2 1/2" x 0.131"); or 3-10d box (3" x 0.128"); or 2 staples, 1" crown, 16 ga., 1 3/4" long	Face nail

ITEM	DESCRIPTION OF BUILDING ELEMENTS	NUMBER AND TYPE OF FASTENER ^{a, b, c}	SPACING AND LOCATION
Floor			
24	2" subfloor to joist or girder	3-16d box (3 1/2" x 0.135"); or 2-16d common (3 1/2" x 0.162")	Blind and face nail
25	2" planks (plank & beam—floor & roof)	3-16d box (3 1/2" x 0.135"); or 2-16d common (3 1/2" x 0.162")	At each bearing, face nail
26	Band or rim joist to joist	3-16d common (3 1/2" x 0.162"); 4-10 box (3" x 0.128"); or 4-3" x 0.131" nails; or 4-3" x 14 ga. staples, 7/16" crown	End nail
27	Built-up girders and beams, 2-inch lumber layers	20d common (4" x 0.192"); or	Nail each layer as follows: 32" o.c. at top and bottom and staggered.
		10d box (3" x 0.128"); or 3" x 0.131" nails	24" o.c. face nail at top and bottom staggered on opposite sides
28	Ledger strip supporting joists or rafters	4-16d box (3 1/2" x 0.135"); or 3-16d common (3 1/2" x 0.162"); or 4-10d box (3" x 0.128"); or 4-3" x 0.131" nails	Face nail at ends and at each splice
		2-20d common (4" x 0.192"); or 3-10d box (3" x 0.128"); or 3-3" x 0.131" nails	
29	Bridging to joist	2-10d (3" x 0.128")	Each end, toe nail
ITEM	DESCRIPTION OF BUILDING ELEMENTS	NUMBER AND TYPE OF FASTENER ^{a, b, c}	SPACING OF FASTENERS
			Edges (inches) ^h
			Intermed iate supports c, e (inches)
Wood structural panels, subfloor, roof and interior wall sheathing to framing and particleboard wall sheathing to framing			
[see Table R602.3(3) for wood structural panel exterior wall sheathing to wall framing]			
30	3/8" - 1/2"	6d common (2" x 0.113") nail (subfloor, wall) ¹ 8d common (2 1/2" x 0.131") nail (roof)	6 12 ¹
31	5/32" - 1"	8d common nail (2 1/2" x 0.131")	6 12 ¹
32	1 1/8" - 1 1/4"	10d common (3" x 0.148") nail; or 8d (2 1/2" x 0.131") deformed nail	6 12

TABLE R602.3(3) REQUIREMENTS FOR WOOD STRUCTURAL PANEL WALL SHEATHING USED TO RESIST WIND PRESSURES^{a, b, c}

MINIMUM NAIL	MINIMUM WOOD STRUCTURAL PANEL SPAN RATING	MINIMUM NOMINAL PANEL THICKNESS (inches)	MAXIMUM WALL STUD SPACING (inches)	PANEL NAIL SPACING		ULTIMATE DESIGN WIND SPEED V _{ult} (mph)		
				Edges (inches o.c.)	Field (inches o.c.)	Wind exposure category		
Size	Penetration (inches)					B	C	D
6d Common (2.0" x 0.113")	1.5	24/0	16	6	12	140	115	110
8d Common (2.5" x 0.131")	1.75	24/16	16	6	12	170	140	135
			24	6	12	140	115	110

For SI: 1 inch = 25.4 mm, 1 mile per hour = 0.447 m/s.

- a. Panel strength axis parallel or perpendicular to supports. Three-ply plywood sheathing with studs spaced more than 16 inches on center shall be applied with panel strength axis perpendicular to supports.
- b. Table is based on wind pressures acting toward and away from building surfaces in accordance with Section R301.2. Lateral bracing requirements shall be in accordance with Section R602.10.
- c. Wood structural panels with span ratings of Wall-16 or Wall-24 shall be permitted as an alternate to panels with a 24/0 span rating. Plywood siding rated 16 o.c. or 24 o.c. shall be permitted as an alternate to panels with a 24/16 span rating. Wall-16 and Plywood siding 16 o.c. shall be used with studs spaced not more than 16 inches on center.

ITEM	DESCRIPTION OF BUILDING ELEMENTS	NUMBER AND TYPE OF FASTENER ^{a, b, c}	SPACING AND LOCATION
Other wall sheathing^d			
33	1/2" structural cellululosic fiberboard sheathing	1 1/2" galvanized roofing nail, 7/16" head diameter, or 1" crown staple 16 ga., 1 1/4" long	3 6
34	5/32" structural cellululosic fiberboard sheathing	1 3/4" galvanized roofing nail, 7/16" head diameter, or 1" crown staple 16 ga., 1 1/4" long	3 6
35	1/2" gypsum sheathing ^d	1 1/2" galvanized roofing nail; staple galvanized, 1 1/2" long; 1 1/4" screws, Type W or S	7 7
36	5/8" gypsum sheathing ^d	1 3/4" galvanized roofing nail; staple galvanized, 1 5/8" long; 1 5/8" screws, Type W or S	7 7
Wood structural panels, combination subfloor underlayment to framing			
37	3/4" and less	6d deformed (2" x 0.120") nail; or 8d common (2 1/2" x 0.131") nail	6 12
38	7/8" - 1"	8d common (2 1/2" x 0.131") nail; or 8d deformed (2 1/2" x 0.120") nail	6 12
39	1 1/8" - 1 1/4"	10d common (3" x 0.148") nail; or 8d deformed (2 1/2" x 0.120") nail	6 12

For SI: 1 inch = 25.4 mm, 1 foot = 304.8 mm, 1 mile per hour = 0.447 m/s; 1 ksi = 6.895 MPa.

- a. Nails are smooth-common, box or deformed shanks except where otherwise stated. Nails used for framing and sheathing connections shall have minimum average bending yield strengths as shown: 80 ksi for shank diameter of 0.192 inch (20d common nail), 90 ksi for shank diameters larger than 0.142 inch but not larger than 0.177 inch, and 100 ksi for shank diameters of 0.142 inch or less.
- b. Staples are 16 gage wire and have a minimum 7/16-inch on diameter crown width.
- c. Nails shall be spaced at not more than 6 inches on center at all supports where spans are 48 inches or greater.
- d. Four-foot by 8-foot or 4-foot by 9-foot panels shall be applied vertically.
- e. Spacing of fasteners not included in this table shall be based on Table R602.3(2).
- f. Where the ultimate design wind speed is 130 mph or less, nails for attaching wood structural panel roof sheathing to gable end wall framing shall be spaced 6 inches on center. Where the ultimate design wind speed is greater than 130 mph, nails for attaching panel roof sheathing to intermediate supports shall be spaced 6 inches on center for minimum 48-inch distance from ridges, eaves and gable end walls; and 4 inches on center to gable end wall framing.
- g. Gypsum sheathing shall conform to ASTM C 1396 and shall be installed in accordance with GA 253. Fiberboard sheathing shall conform to ASTM C 208.
- h. Spacing of fasteners on floor sheathing panel edges applies to panel edges supported by framing members and required blocking and at floor perimeters only. Spacing of fasteners on roof sheathing panel edges applies to panel edges supported by framing members and required blocking. Blocking of roof or floor sheathing panel edges perpendicular to the framing members need not be provided except as required by other provisions of this code. Floor perimeter shall be supported by framing members or solid blocking.
- i. Where a rafter is fastened to an adjacent parallel ceiling joist in accordance with this schedule, provide two toe nails on one side of the rafter and toe nails from the ceiling joist to top plate in accordance with this schedule. The toe nail on the opposite side of the rafter shall not be required.

PRODUCTION DRAWINGS

EACH PAGE MUST BE SIGNED, DATED AND RETURNED TO N.E.H.

Signature: _____ Date: _____
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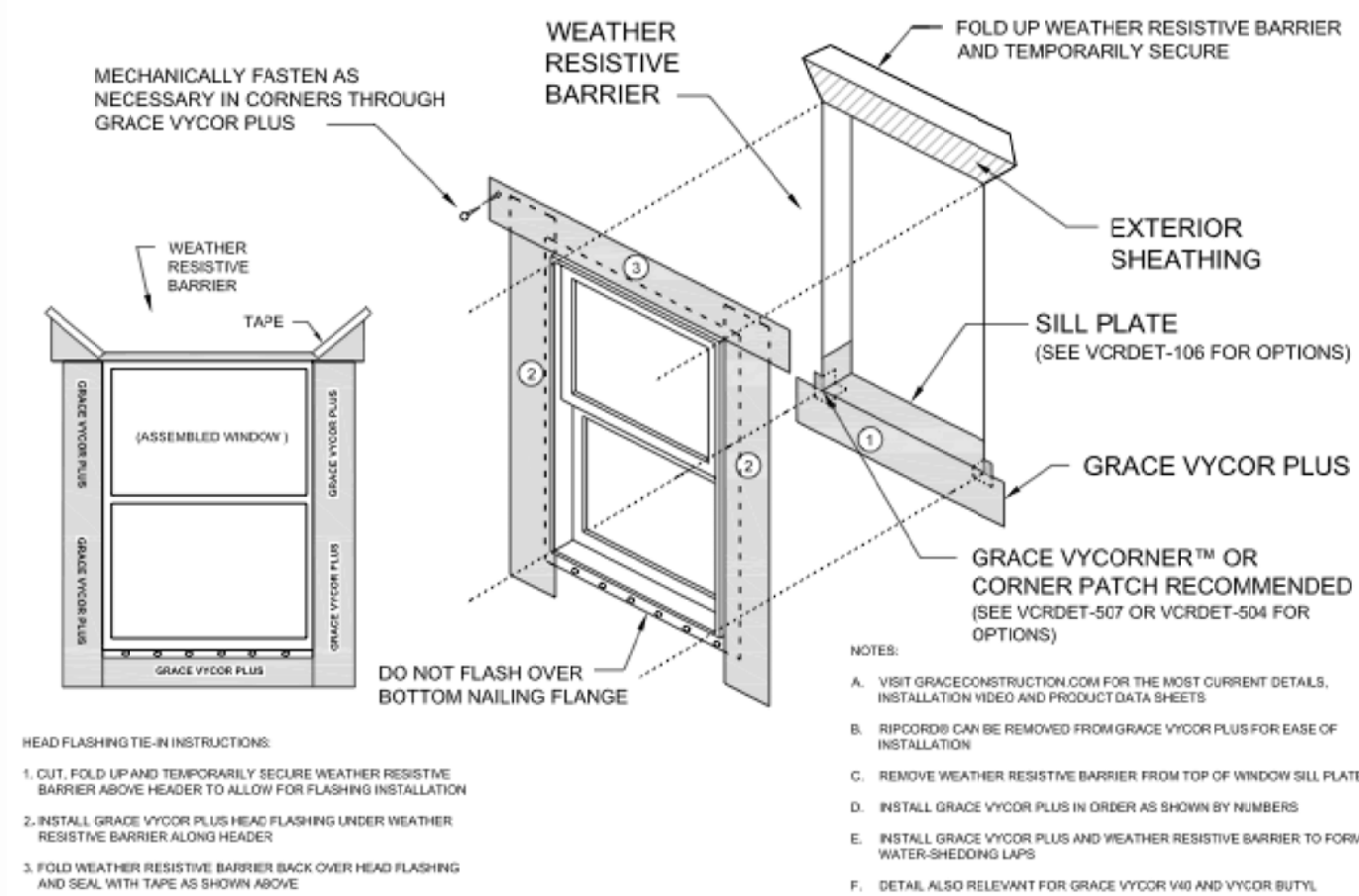
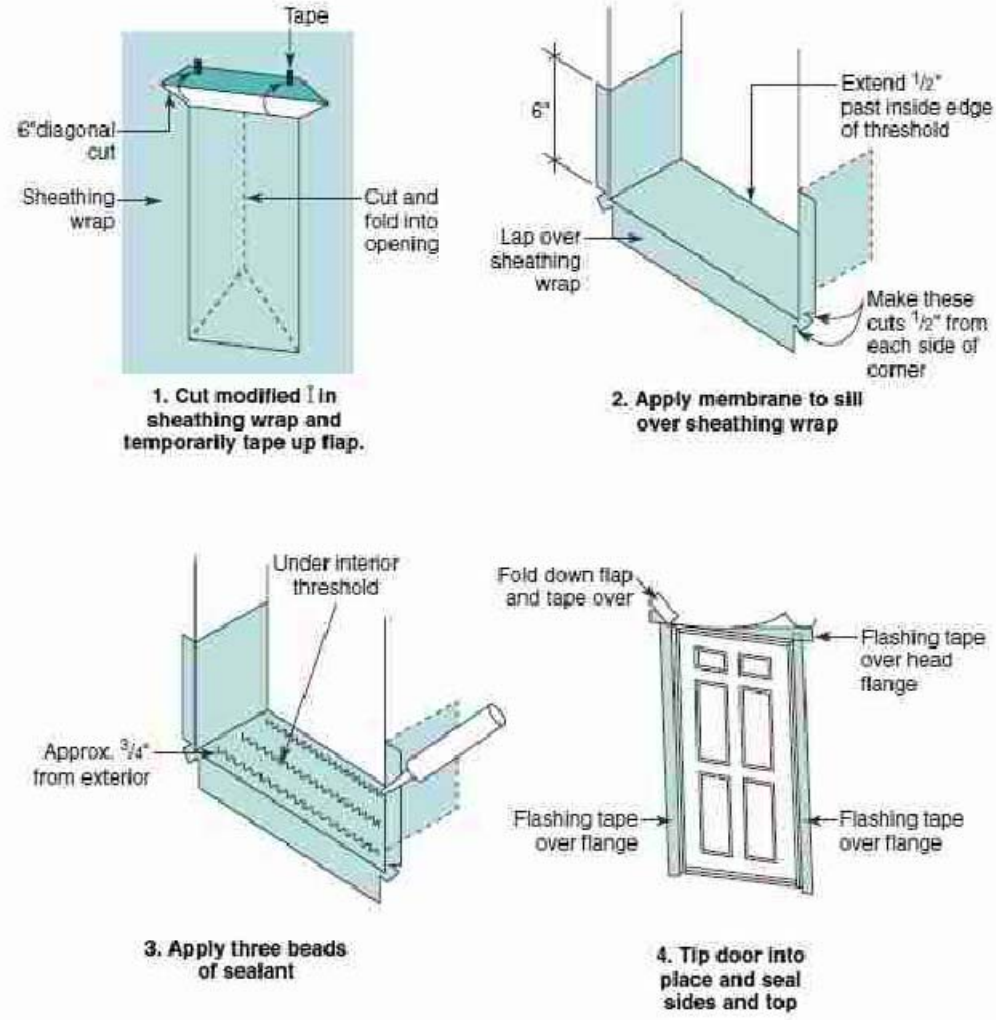
Structure Desc: COLONIAL
Builder: N.T.S.
Scale: _____

DETAILS

Drawn: RTA
1/6/2020
Revisions: RTA
1/22/2020
RTA
1/30/2020
RTA
2/27/2020

11382
Revision: C

Sheet: A-19



FLANGED WINDOW FLASHING INSTALLATION AFTER WEATHER RESISTIVE BARRIER

PRODUCTION DRAWINGS

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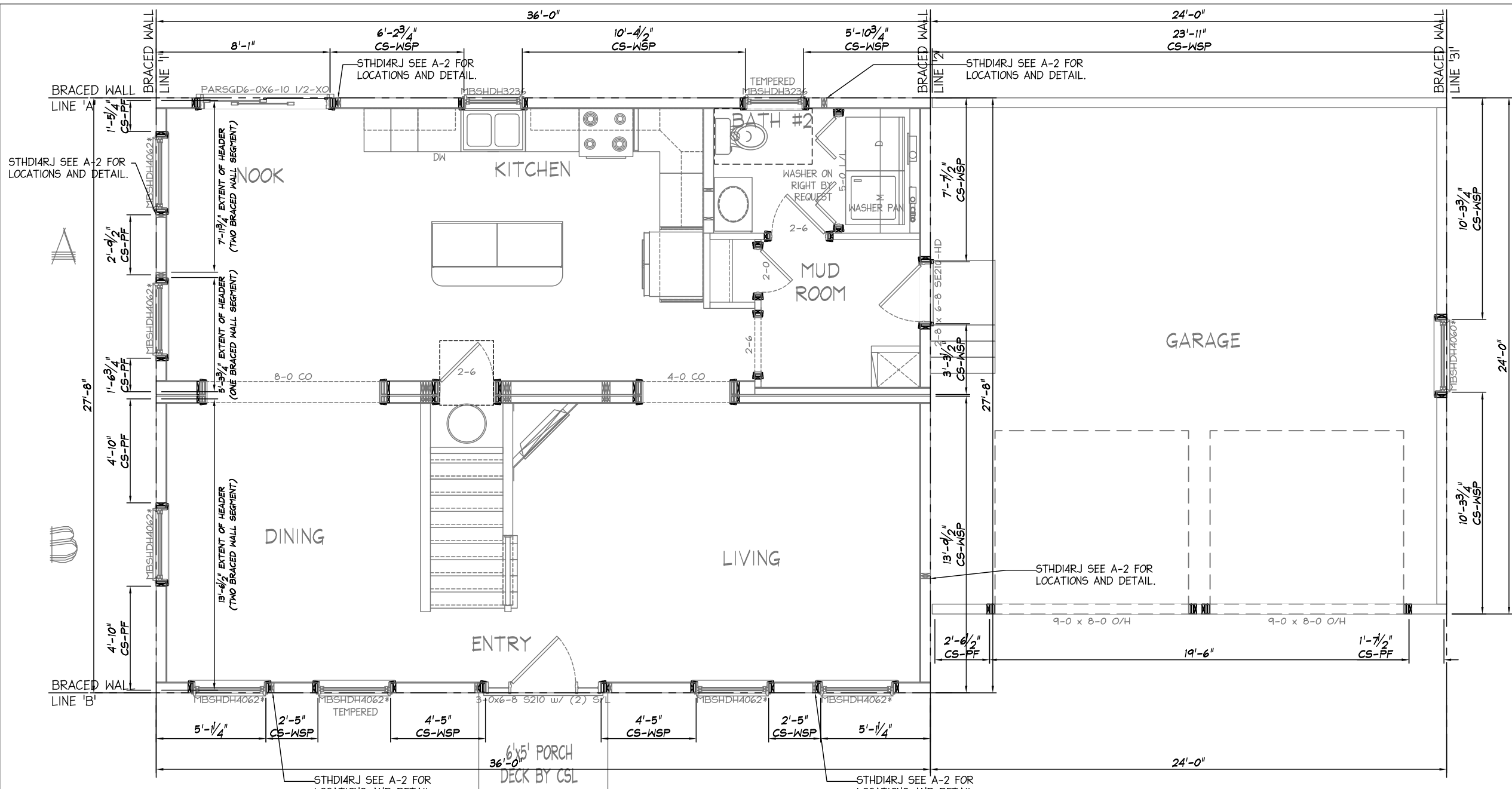
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Builder: **N.T.S.**

Structure Desc: **COLONIAL**

Scale: **DETAILS**

Drawn:	RTA
1/6/2020	Revisions
1/22/2020	RTA
1/30/2020	RTA
2/27/2020	RTA
11382	
Revision:	C
Sheet:	A-20



EXTERIOR WALL LINE	BRACED WALL LINE SPACING	BRACED WALL METHOD	TABULATED MIN. BRACED WALL TOTAL	WIND EXPOSURE FACTOR	RIDGE TO EAVE HEIGHT FACTOR	WALL HEIGHT FACTOR	WALL LINE QTY FACTOR	PANELS W/ HOLD DOWNS	MIN. BRACED WALL LENGTH REQ'D	WALL LENGTH PROVIDED	WALL LINE MEETS REQUIREMENTS
			TABLE R602.10.3(1)	TABLE R602.10.3(2)	TABLE R602.10.3(2)	TABLE R602.10.3(2)	TABLE R602.10.3(2)				
				ITEM 1	ITEM 2	ITEM 3	ITEM 4				
A	27'-8"	CS-WSP	13'-0"	1.0	1.0	1.0	1.0	YES	13'-0"	46'-5"	YES
B	27'-8"	CS-WSP/CS-PF	13'-0"	1.0	1.0	1.0	1.0	YES	13'-0"	19'-11"	YES
1	36'-0"	CS-WSP	15'-5" *	1.0	1.0	0.9	1.3	YES	18'-0-7/16"	23'-2-1/4"	YES
2	36'-0"	CS-WSP	15'-5" *	1.0	1.0	0.9	1.3	YES	18'-0-7/16"	24'-8-1/2"	YES
3	24'-0"	CS-WSP	10'-6" *	1.0	1.0	1.0	1.3	N/A	13'-7-13/16"	20'-7-1/2"	YES

STRUCTURE TYPE:	ONE OR TWO FAMILY DETACHED
# OF STORIES:	2
SEISMIC DESIGN CATEGORY	N/A
WIND SPEED(3 SEC. GUST)	134 MPH Vult
WIND EXPOSURE	B
MEAN ROOF HEIGHT (HOUSE/GARAGE)	23'-8"/13'-11"
EAVE TO RIDGE HEIGHT (HOUSE/GARAGE)	9'-3"/8'-2"
WALL HEIGHT	8'-0"
# VERTICAL BRACED WALLS LINES	3
# HORIZONTAL BRACED WALL LINES	2

NOTES:

- ALL CS-WSP BRACEWALL PANEL LOCATIONS:
 - FASTEN BOTTOM PLATE OF BRACE WALL PANEL TO DECK PERIMETER W/(3)16d NAILS @ 16"O.C.
 - FASTEN 2X6 CEILING PERIMETER INTO TOP PLATE OF BRACE WALL PANEL W/ 8d NAILS TOED @ 6"O.C.

* = VALUE HAS BEEN INTERPOLATED

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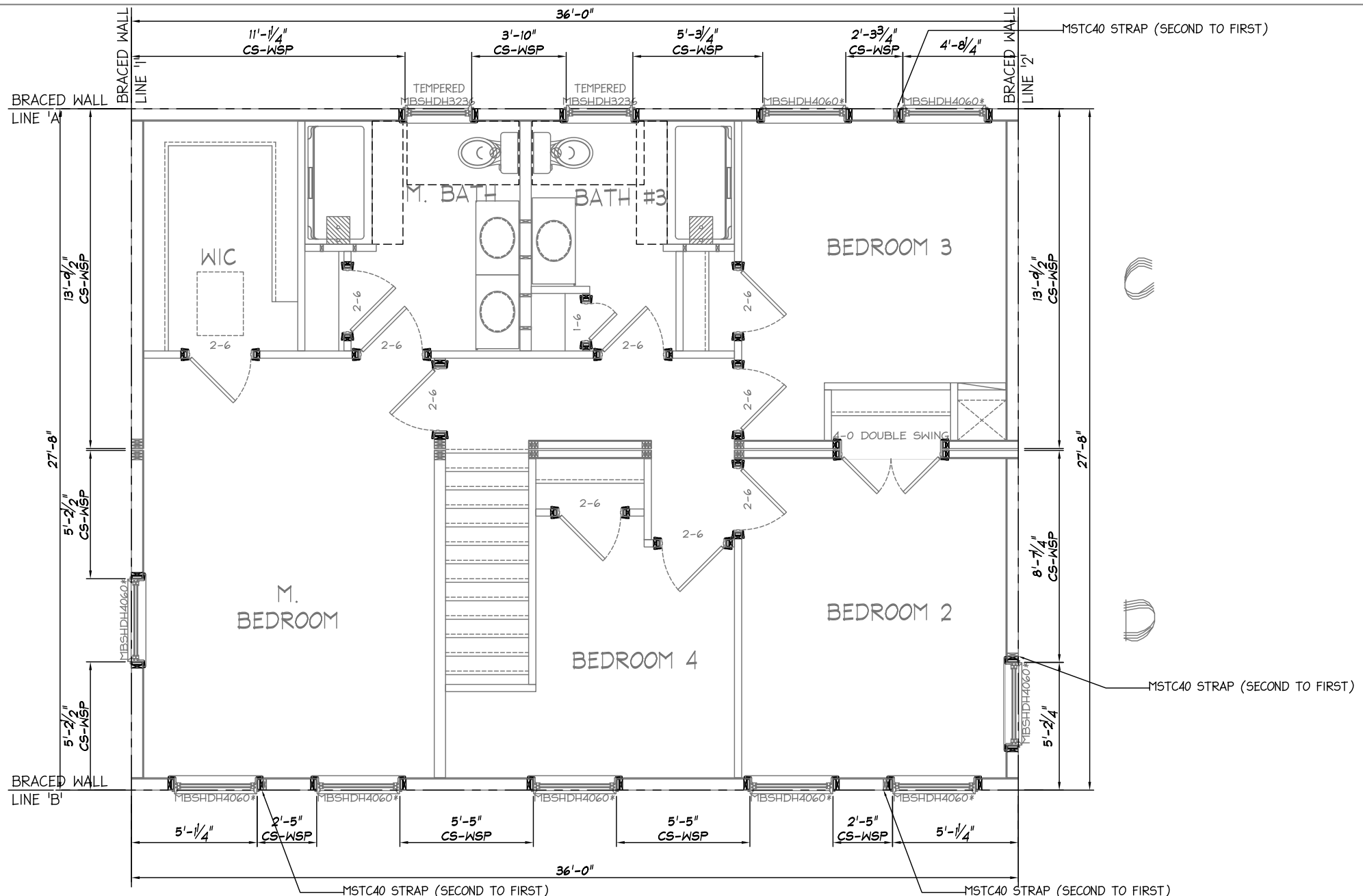
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BRACE WALL DETAILS

Drawn:	Revisions
4/28/21	JMS
4/28/21	JMS
5/12/21	JMS
6/17/2021	RTA
6/28/2021	RTA

11426
Revision: C
Sheet: A-21

N.T.S.
Scale:

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EXTERIOR WALL LINE	BRACED WALL LINE SPACING	BRACED WALL METHOD	TABULATED MIN. BRACED WALL TOTAL TABLE R602.10.3(1)	WIND EXPOSURE FACTOR TABLE R602.10.3(2) ITEM 1	RIDGE TO EAVE HEIGHT FACTOR TABLE R602.10.3(2) ITEM 2	WALL HEIGHT FACTOR TABLE R602.10.3(2) ITEM 3	WALL LINE QTY FACTOR TABLE R602.10.3(2) ITEM 4	PANELS W/ HOLD DOWNS	MIN. BRACED WALL LENGTH REQ'D	WALL LENGTH PROVIDED	WALL LINE MEETS REQUIREMENTS
A	27'-8"	CS-WSP	7'-0"	1.0	1.0	0.9	1.0	YES	6'-3-5/8"	22'-6-1/4"	YES
B	27'-8"	CS-WSP	7'-0"	1.0	1.0	0.9	1.0	YES	6'-3-5/8"	15'-8"	YES
1	36'-0"	CS-WSP	9'-0"	1.0	1.0	0.9	1.0	N/A	8'-1-3/16"	24'-2-1/2"	YES
2	36'-0"	CS-WSP	9'-0"	1.0	1.0	0.9	1.0	YES	8'-1-3/16"	22'-4-3/4"	YES

STRUCTURE TYPE:	ONE OR TWO FAMILY DETACHED
# OF STORIES:	2
SEISMIC DESIGN CATEGORY	N/A
WIND SPEED(3 SEC. GUST)	134 MPH Vult
WIND EXPOSURE	B
MEAN ROOF HEIGHT (HOUSE/GARAGE)	23'-8"/13'-11"
EAVE TO RIDGE HEIGHT (HOUSE/GARAGE)	9'-3"/8'-2"
WALL HEIGHT	8'-0"
# VERTICAL BRACED WALLS LINES	3
# HORIZONTAL BRACED WALL LINES	2

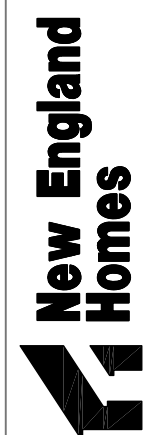
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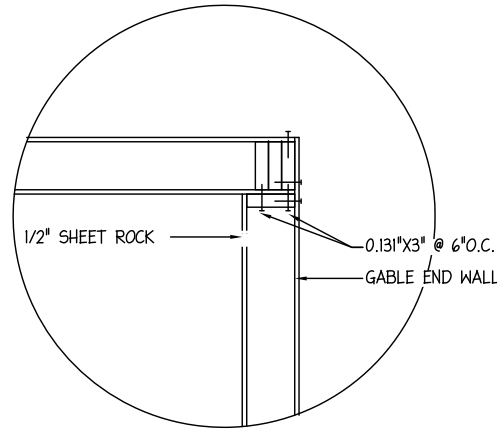


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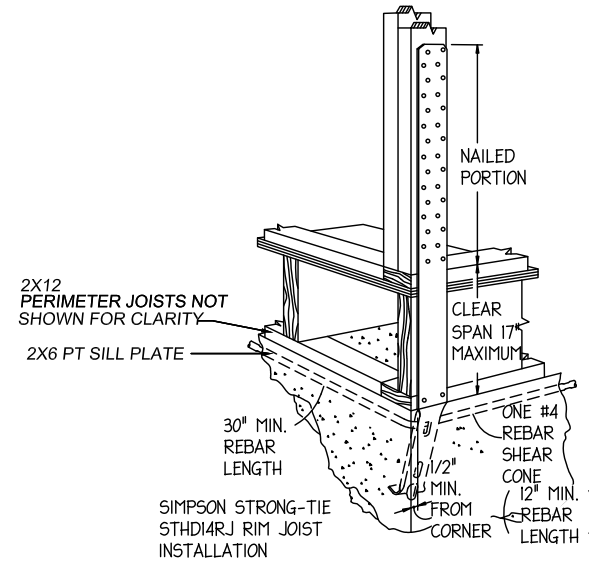
Structure Desc: COLONIAL
 Scale: N.T.S.
BRACE WALL DETAILS

Drawn:	JMS
Revisions:	
4/28/21	JMS
5/12/21	JMS
6/17/2021	RTA
6/28/2021	RTA

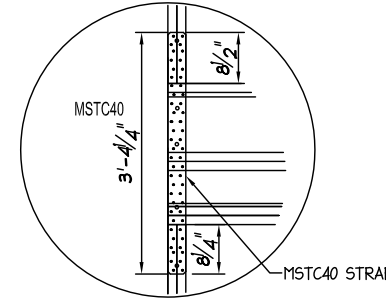
11426
 Revision: C
 Sheet: A-22



CORNER STUD FASTENING DETAIL

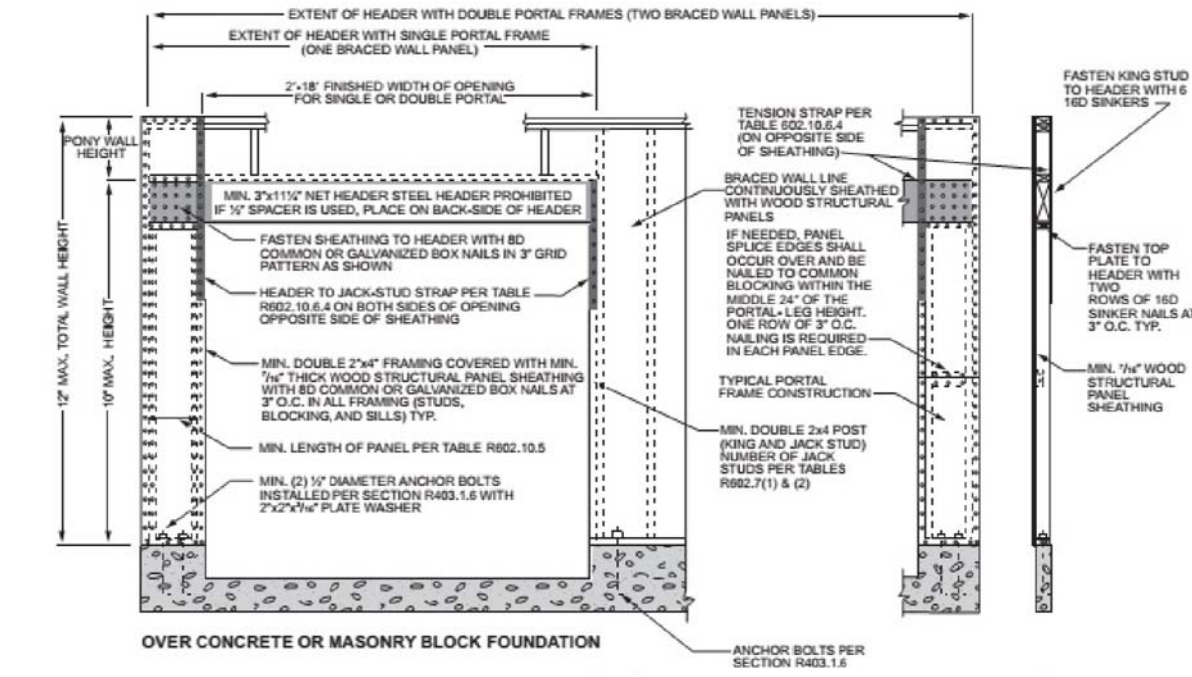


SIMPSON STRONG-TIE STHD14RJ FOUNDATION TIE (FOUNDATION TO MODULAR END WALL CORNER INSTALLATION BY CSL)

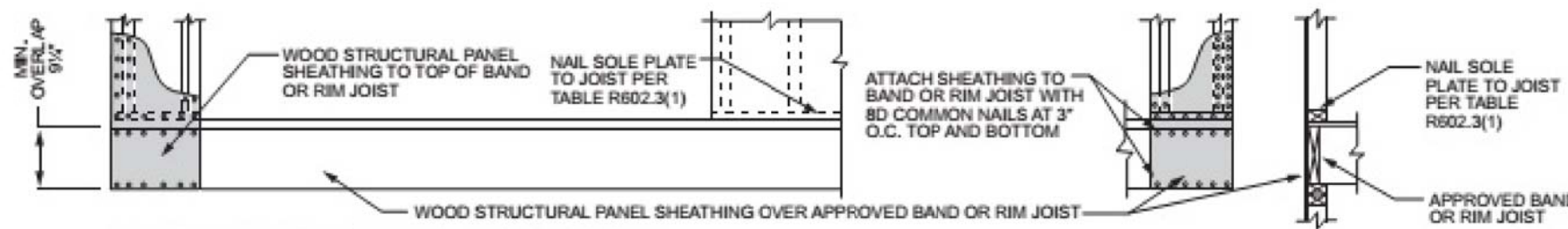


SIMPSON STRONG-TIE MSTC40 OR EQUAL 1ST FLOOR TO 2ND FLOOR STRAP TIE (INSTALLATION ON SITE BY CSL, MULTI-UNIT STACKED MODULAR AT CORNERS)

DETAIL A



OVER CONCRETE OR MASONRY BLOCK FOUNDATION



OVER RAISED WOOD FLOOR - OVERLAP OPTION (WHERE PORTAL SHEATHING LAPS OVER BAND OR RIM BOARD)

FRONT ELEVATION

SECTION

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11426	Drawn: 4/28/21	JMS	277 Locust Street, Suite B Dover, NH 03820 www.newenglandhomes.net (Telephone) 800.800.8831 (Fax) 603.431.9540
	Revisions	JMS	
Revision: C	4/28/21	JMS	New England Homes
Sheet: A-23	5/12/21	JMS	
	6/17/2021	RTA	ADVANCED DEVELOPMENT INC
	6/28/2021	RTA	
			Structure Desc: COLONIAL
			Scale: N.T.S.
			BRACE WALL DETAILS

Signature _____ Date _____
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OUTDOOR EMERGENCY SHUT-OFF @ METER BY CSL

SIEMENS #PN54828BI200 54 SPACE PANEL			
SIZE: 200 AMP		SERIAL #: 11426	
1	RANGE-ELECTRIC 40A GFCI	RESERVED FOR OPTIONAL MANUAL TRANSFER SWITCH	2
3	2-POLE	2-POLE	4
5	SMALL APPLIANCE 20A AFCI REFRIGERATOR	DRYER-ELECTRIC 30A GFCI	6
7	SMALL APPLIANCE 20A AFCI KIT COUNTERTOP	2-POLE	8
9	SMALL APPLIANCE 20A AFCI KIT COUNTERTOP	WASHER 20A AFCI/GFCI	10
11	SMALL APPLIANCE 20A AFCI KITCHEN/NOOK	GENERAL LIGHTING 15A AFCI LIVING ROOM	12
13	SMALL APPLIANCE 20A AFCI DINING	GENERAL LIGHTING 15A AFCI ENTRY/COACH/DINING	14
15	DISHWASHER - LOCK-OUT 20A AFCI/GFCI	GENERAL LIGHTING 15A AFCI CRAWL SPACE	16
17	RANGE HOOD / MICROWAVE 20 AFCI/GFCI	GENERAL LIGHTING 15A AFCI GARAGE	18
19	GFI-OUTLET 20A AFCI MSTR BTH	GENERAL LIGHTING 15A AFCI MUD/BTH-2	20
21	GFI-OUTLET 20A AFCI BTH-2	GENERAL LIGHTING 15A AFCI KITCHEN/NOOK	22
23	GFI-OUTLET 20A AFCI BTH-3	GENERAL LIGHTING 15A AFCI M.BEDRM/SMOKE	24
25	RADON REDUCTION SYSTEM 15A AFCI	GENERAL LIGHTING 15A AFCI BEDRM-2	26
27	HOT WATER HEATER 25A GFCI	GENERAL LIGHTING 15A AFCI BEDRM-3	28
29	2-POLE	GENERAL LIGHTING / ATTIC 15A AFCI WIC/M.BTH/BTH-3	30
31	-SPARE- -SPARE-	GENERAL LIGHTING 15A AFCI 2ND HALL/STAIRS	32
33	-SPARE- -SPARE-	GENERAL LIGHTING 15A AFCI BEDRM-4	34
35	-SPARE- -SPARE-	-SPARE- -SPARE-	36
37	-SPARE- -SPARE-	-SPARE- -SPARE-	38
39	-SPARE- -SPARE-	-SPARE- -SPARE-	40
41	-SPARE- -SPARE-	-SPARE- -SPARE-	42
43	-SPARE- -SPARE-	-SPARE- -SPARE-	44
45	-SPARE- -SPARE-	-SPARE- -SPARE-	46
47	-SPARE- -SPARE-	WHOLE HOUSE SURGE PROTECTION BY CSL	48
49	-SPARE- -SPARE-	2-POLE	50
51	RESERVED FOR ELECTRIC 40A VEHICLE PER 2020 NEC	RESERVED FOR FUTURE SOLAR PER 2018 IECC	52
53	2-POLE	RESERVED FOR FUTURE SOLAR PER 2018 IECC	54

AFCI=ARC FAULT CIRCUIT INTERRUPTER
GFCI=GROUND FAULT CIRCUIT INTERRUPTER
BREAKERS 2-4 ARE INTENTIONALLY LEFT SPARE FOR OPTIONAL EMERGENCY POWER MANUAL TRANSFER SWITCH. PROVIDE 20% SPARE PANEL SPACE FOR GROWTH.

ELECTRICAL NOTES:
1. * = INTER-CONNECT @ BASEMENT - RESPONSIBILITY OF CONSTRUCTION SUPERVISOR LICENSEE.
2. ** = INTER-CONNECT @ ATTIC - RESPONSIBILITY OF C.S.L.

(4) 2-CONDUCTOR OR (3) 3-CONDUCTOR MAX. FILL PER DRILLED HOLE FOR 80% CIRCUIT RATING FACTOR.

CAUTION: POWER SMOKE/CO DETECTORS OFF NOTED CIRCUIT ONLY. FAILURE TO COMPLY MAY DISABLE INTER-CONNECT RESISTOR AND REQUIRE REPLACEMENT OF SMOKE/CO DETECTORS.

CIRCUIT LEGEND		
EXAMPLE	1 2 3	
	1 A 1	
1. CIRCUIT #		
2. JUMPER (A=BREAKER / B=B / C=C / ETC.)		
3. WIRE SIZE 1- 12-2 / 2- 14-2 / 3- 14-3 / 4- 12-3 - / - / - / -		
LOW VOLTAGE KEY		
1-THERMOSTAT	(18/6)	
2-BELL	(18/2)	
3-CHIMES	(18/3)	
4-HRV CONTROL	(18/6)	
5-CENTRAL VAC	(18/2)	

ELECTRICAL DRAWING LIST	
E-1	LEED SHEET
E-2	FOUNDATION PLAN ELECTRICAL
E-3	FIRST FLOOR PLAN ELECTRICAL
E-4	SECOND FLOOR PLAN ELECTRICAL

ELECTRICAL SYMBOL LEGEND			
	DUPLEX RECEPTACLE		SWITCH
	SWITCHED RECEPTACLE		3-WAY SWITCH
	GFI PROTECTED RECEPTACLE		4-WAY SWITCH
	DOUBLE DUPLEX RECEPTACLE		EMERGENCY SWITCH
	RANGE OR DRYER RECEPTACLE		LIGHT
	SINGLE RECEPTACLE		BOX AND WIRE FOR FUTURE
	FLOOR/CEILING RECEPTACLE		RECESSED LIGHT
	SWITCHED FLOOR/CEILING RECEPTACLE		BATH VANITY LIGHT BAR
	FAN		RANGE HOOD
	FAN AND LIGHT		PHONE JACK
	FAN, LIGHT, AND HEAT		TV COAX
	THERMOSTAT		RECESSED TV JACK WITH RECEPTACLE
	DOOR BELL		CENTRAL VAC
	CHIMES		KICK SPACE HEATER
	SERVICE PANEL		HOT WATER BASEBOARD
	WEATHERPROOF/ EXTERIOR GFI PROTECTED RECEPTACLE		RETURN GRILLE
	COIL WIRE		SUPPLY GRILLE
			CEILING MOUNT SPEAKER
			WALL MOUNT SPEAKER
			CARBON MONOXIDE DETECTOR/ALARM
			HEAT DETECTOR/ALARM
			FLOOD LIGHT
			JUNCTION BOX
			ARC FAULT CIRCUIT INTERRUPTER
			HRV
			OCCUPANCY SENSOR
			MINI SPLIT
			WASHER BOX
			DRYER BOX
			PHOTO-ELECTRIC SMOKE DETECTOR
			IONIZATION SMOKE DETECTOR
			IONIZATION SMOKE DETECTOR/CO (ISD/CO)
			PHOTO-ELECTRIC SMOKE DETECTOR/CO (PSD/CO)
			PHOTO-ELECTRIC SMOKE DETECTOR/CO (PSD/CO-V) VOICE

ELECTRICAL GENERAL NOTES

- All notes containing the term "by the csl" are defining obligations, whether for material which is not supplied or installed by the company or for construction methodology/acceptable building practice for which the company accepts no responsibility and should be reviewed carefully by the csl and the local building inspector.
- All work done on the line side of the main disconnect, the site interconnection of factory installed wiring at junction points and the site connection of circuit home runs, coiled at the marriage wall junction point (MWJP), to their respective breakers in the panel will be the responsibility of the csl and shall be done by licensed electricians. The number of home runs is determined by the panel location.
- Wiring from the load side of the main disconnect to junctions points, boxes containing circuit ends of factory installed wiring or to be coiled at attic or underfloor locations for connection to site installed equipment and/or fixtures will be done by the company. Circuits, whose home runs will be site connected to the panel, will be installed by the company with the home runs coiled at the MWJP.
- All basement circuits, materials and connections as well as the connection of coiled wires to site installed fixture(s) shall be the responsibility of the csl and shall be accomplished by licensed electricians in compliance with applicable electrical and building codes.
- Capes, gambrels and colonials with unfinished 2nd floors shall have all fixtures, devices, material and connections above the second floor decking supplied by the csl and installed by licensed electricians in compliance with applicable codes.
- Capes, gambrels and colonials with finished second floors (four unit modular houses) will have the site interconnection of factory installed wiring accomplished at the stack wall junction point (SWJP) from 1st floor to 2nd floor and at the attic junction point (AJP) from one second floor modular unit to the other.
- The SWJP is accessible either through a ceiling access in a bathroom, closet or laundry alcove on the 1st floor or through a floor access panel on the 2nd floor. The AJP is accessible through either the attic access scuttle or through a ceiling access panel in the 2nd floor ceiling.
- All (1st and 2nd floor) telephone and television jack wiring will follow standard direct or junction point routing to the panel.
- All electrical work shall be done in compliance with state and local codes and the National Electrical Code (NEC) in effect at the time of construction.
- An electrical contractor shall arrange and pay for all required permits and/or inspection materials.

Requirements For Installation Of Smoke Detectors/Alarms:
NFPA 72 National Fire Alarm Code &
Massachusetts (MSBC 9TH Edition) Sec. R314

- No less than one (1) approved smoke detector shall be provided on the highest habitable level and on each floor, story or level below, including basements or cellars.
- For any floor, level or story exceeding twelve hundred (1000) square feet in area, one (1) approved smoke detector shall be provided for each twelve hundred (1000) square feet or part thereof.
- One (1) approved smoke detector shall be located inside of each separate sleeping area and inside all bedrooms.
- One (1) approved smoke detector shall be located on the ceiling near the base of, but not within, each stairway.
- All smoke detectors shall be wired to the same branch circuit. This circuit must also provide other electrical service to a habitable area.
- Smoke detectors shall be wired into the supply circuit ahead of any switches.
- All smoke detectors shall be interconnected to provide simultaneous warning.
- Any smoke detector located within 20'-0" of a cooking appliance or within 20'-0" of a door to a bathroom containing a tub or shower shall be a photo electric type smoke detector.

Requirements For Installation Of Carbon Monoxide Detectors/Alarms
Massachusetts Department of Fire Services 527 CMR 31.00 &
Massachusetts (MSBC 9TH Edition) Sec. R315

- Carbon monoxide alarm protection shall be located on each level of each dwelling unit including habitable portions of basements, cellars and attics, but not including crawlspaces.
- When mounting carbon monoxide alarm protection on a level of a dwelling unit with a sleeping area, the alarm shall be installed in the immediate vicinity of the sleeping area, not to exceed 10 ft. as measured in any direction from any bedroom door.

Requirements For Installation Of Heat Detectors

Massachusetts (MSBC 9TH Edition) Sec. R314

- A single heat detector listed for the ambient environment shall be installed in any integral garage ("garage under") or attached garage to the main house.
- For flat-finished ceilings, the single heat detector shall be placed on or near the center of the garage ceiling.
- The required single heat detector shall be listed for and required to be interconnected to all smoke detectors of the required household fire alarm system so that the activation of the heat detector will activate all of the audible alarms of the household fire alarm system.
- The required heat detector is not required to have its own audible alarm notification nor is any audible notification device required in the garage.

ELECTRICAL SYSTEMS - National Electrical Code (NFPA 70) 2020 Edition

- Material Approval: All electrical conductors & equipment shall be approved in accordance with NEC 110.2.3.
- Wiring Classification: Type, size and temperature ampacity of conductors are in accordance with NEC 310, Table 310.15 (B)(16).
- Wiring Protection: When non-metallic cables are subject to physical damage, they will be protected in accordance with NEC 300.4.
- Wiring Support: Non-metallic sheath cable shall be supported in accordance with NEC 334.30 and Massachusetts Supplements.
- Outlets: To be listed tamper-resistant outlets in accordance with NEC 406.12 (1-7) and laid out in accordance with NEC 210.52, A-1. Dwelling Unit Receptacle Outlets.
- Outlet Box Capacity: The maximum number of conductors & devices or fittings installed in an outlet box shall be determined by the box capacity, in accordance with NEC 314.16 & Tables 314.16 (A) & 314.16 (B).
- Bath Outlets: To be protected with a GFI device in accordance with NEC 210.8, A, (1). Ground Fault Protection.
- Kitchen Outlets: (Min. 2/20 Amp Circuits) When receptacles are installed to serve countertop areas, they shall be protected with GFI device in accordance with NEC 210.8, A, (6). Ground Fault Protection.
- Wet bar, laundry, utility sink outlet(s): when receptacles are installed to service countertop areas, they shall be protected with a GFI device in accordance with NEC 210.8, A, (7) Ground Fault Protection.
- Exterior Outlet: Two weather-resistant type outlets, one front and one rear, to be installed in accordance with NEC 406.9. Receptacles in damp or wet locations, and protected with a GFI device in accordance with NEC 210.52 A (3) Ground Fault Protection.
- Arc Fault Circuit Interrupter: AFCI breakers to be installed in accordance with NEC 210.12, which requires "all 120v, 15 & 20 amp receptacle outlets in dwelling unit kitchen, laundry, mudroom, family rooms, dining rooms, living rooms, parlors, libraries, dens, bedrooms, sunrooms, recreation rooms, closets, hallways, or similar rooms or areas" to be protected by combination-type arc fault circuit interrupter breakers.
- Lights: To be laid out in accordance with NEC 210.70; Lighting Outlets Required.
- Fixture Locations: Lighting fixtures shall be located in accordance with NEC 410.10, 410.11, 410.12, 410.16 & 410.18.
- Fixture Support: Lighting fixtures shall be supported in accordance with NEC 410.30 & 410.36.
- Electric Baseboard: To be calculated per contract as required by layouts and windows. To be installed per manufacturer's recommendations, and spaced in the room so that no outlets are within 6" of the element of the baseboard units.
- Appliance Installation: Electric appliances shall be installed in accordance with NEC Article 422.
- Optional Whirlpool Tub: Shall always be a Hydromassage Bathtub unit in accordance with NEC Article 680.2, and shall comply with 680.70 thru 680.74.
- Electrical Load Calculations: In accordance with NEC Article 220.
- Electrical System Testing:
Wiring Integrity (Dielectric): NEC 110.7
GFI Performance Testing: NEC 230.95 (C)
Operation Test
Continuity Test
Polarity Test

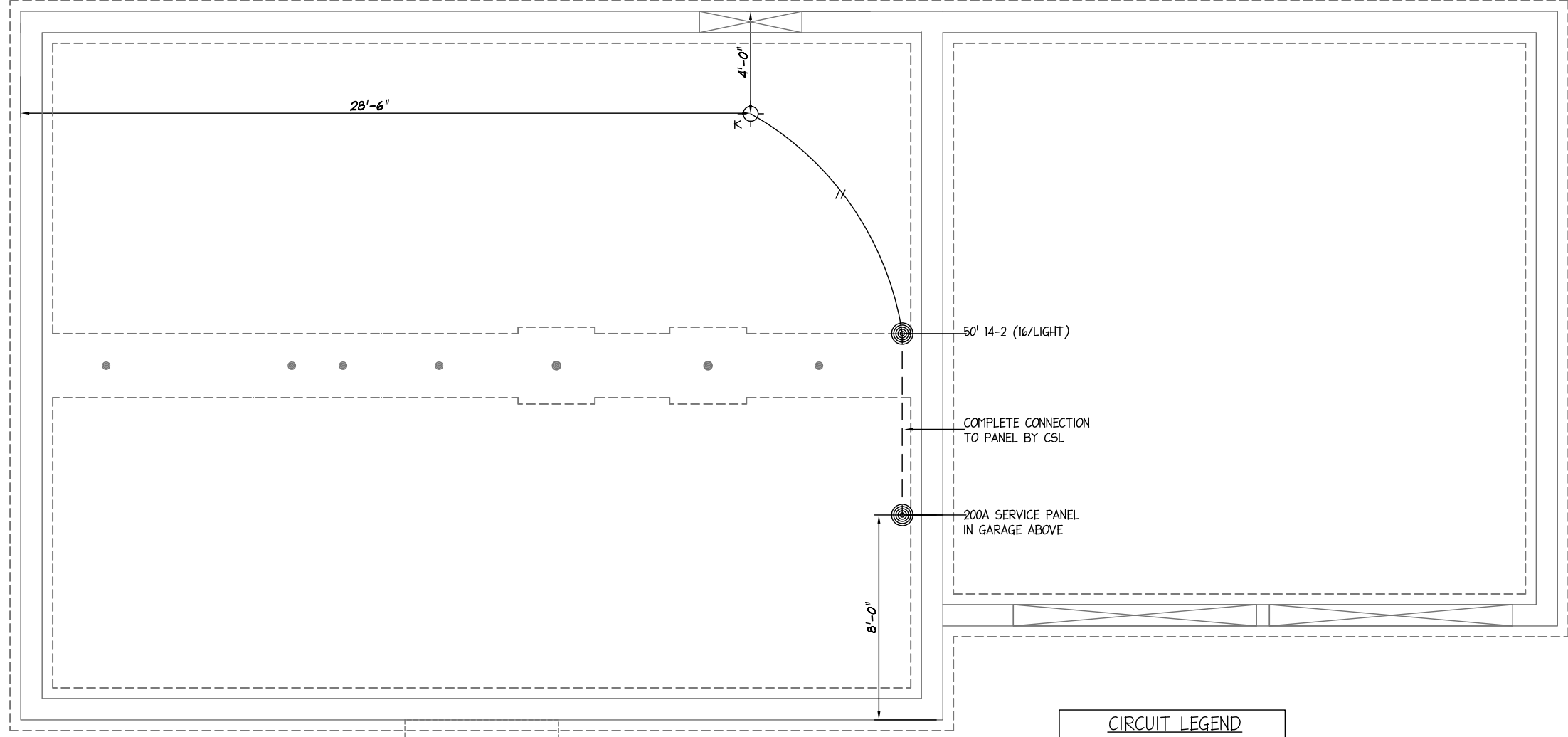
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	ADVANCED DEVELOPMENT INC Structure Desc: COLONIAL Builder: N.T.S. Scale: LEED SHEET	
Drawn: 4/28/21 Revisions: 4/28/21 5/12/21 6/11/2021 6/28/2021	JMS JMS JMS RTA RTA	11426 Revision: C Sheet: E-1

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



CIRCUIT LEGEND			
EXAMPLE	1	2	3
	1	A	1
1. CIRCUIT #			
2. JUMPER			
(A=BREAKER / B=B / C=C / ETC.)			
3. WIRE SIZE			
1- 12-2 / 2- 14-2 / 3- 14-3 / 4- 12-3	/	//	///
LOW VOLTAGE KEY			
1-THERMOSTAT	(18/6)		
2-BELL	(18/2)		
3-CHIMES	(18/3)		
4-HRV CONTROL	(18/6)		
5-CENTRAL VAC	(18/2)		

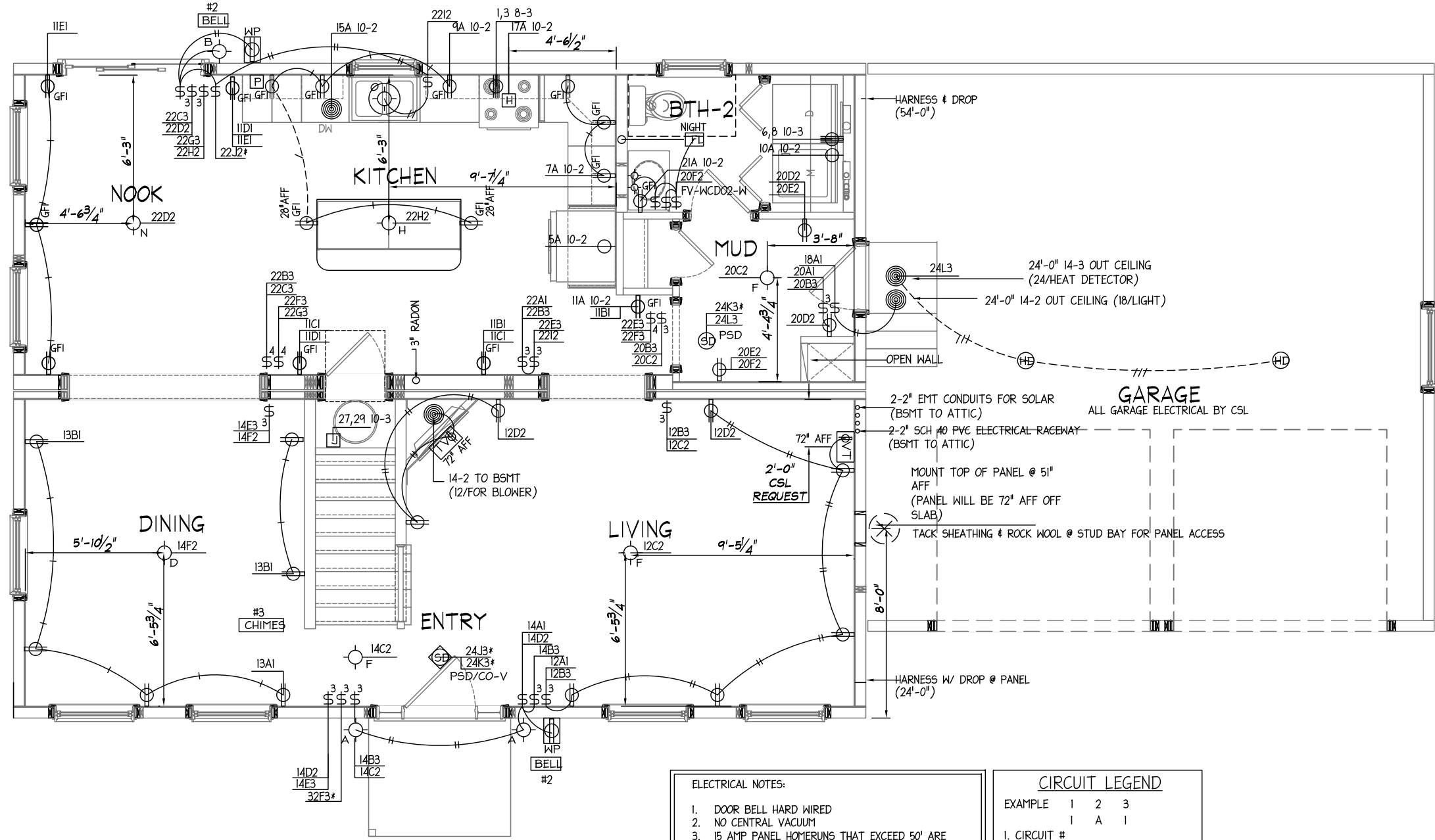
11426	Drawn:	JMS
	Revisions	
Revision: C	4/28/21	JMS
	5/12/21	JMS
	6/17/2021	RTA
Sheet: E-2	6/28/2021	RTA
	Builder:	RTA
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ADVANCED DEVELOPMENT INC Structure Desc: COLONIAL Scale: 3/16"=1'-0"		
FOUNDATION PLAN ELECTRICAL		

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- ELECTRICAL NOTES:**
1. DOOR BELL HARD WIRED
 2. NO CENTRAL VACUUM
 3. 15 AMP PANEL HOMERUNS THAT EXCEED 50' ARE INCREASED (1) WIRE SIZE TO ACCOMMODATE VOLTAGE LINE LOSS FOR 12 WIRE
 4. 20 AMP PANEL HOMERUNS THAT EXCEED 70' ARE INCREASED (1) WIRE SIZE TO ACCOMMODATE VOLTAGE LINE LOSS FOR 10 WIRE
 5. DELETE BASEBOARD AND DROPS, EMERGENCY SHUT OFF AND THERMOSTAT

- CIRCUIT LEGEND**
- EXAMPLE 1 2 3
 1 A 1
1. CIRCUIT #
 2. JUMPER
(A=BREAKER / B=B / C=C / ETC.)
 3. WIRE SIZE
1- 12-2 / 2- 14-2 / 3- 14-3 / 4- 12-3
- LOW VOLTAGE KEY**
- 1-THERMOSTAT (18/6)
 - 2-BELL (18/2)
 - 3-CHIMES (18/3)
 - 4-HRV CONTROL (18/6)
 - 5-CENTRAL VAC (18/2)

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	Revisions	JMS
Revision: C		JMS
		RTA
Sheet: E-3	Builder:	RTA
	Scale:	3/16"=1'-0"

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FIRST FLOOR PLAN ELECTRICAL

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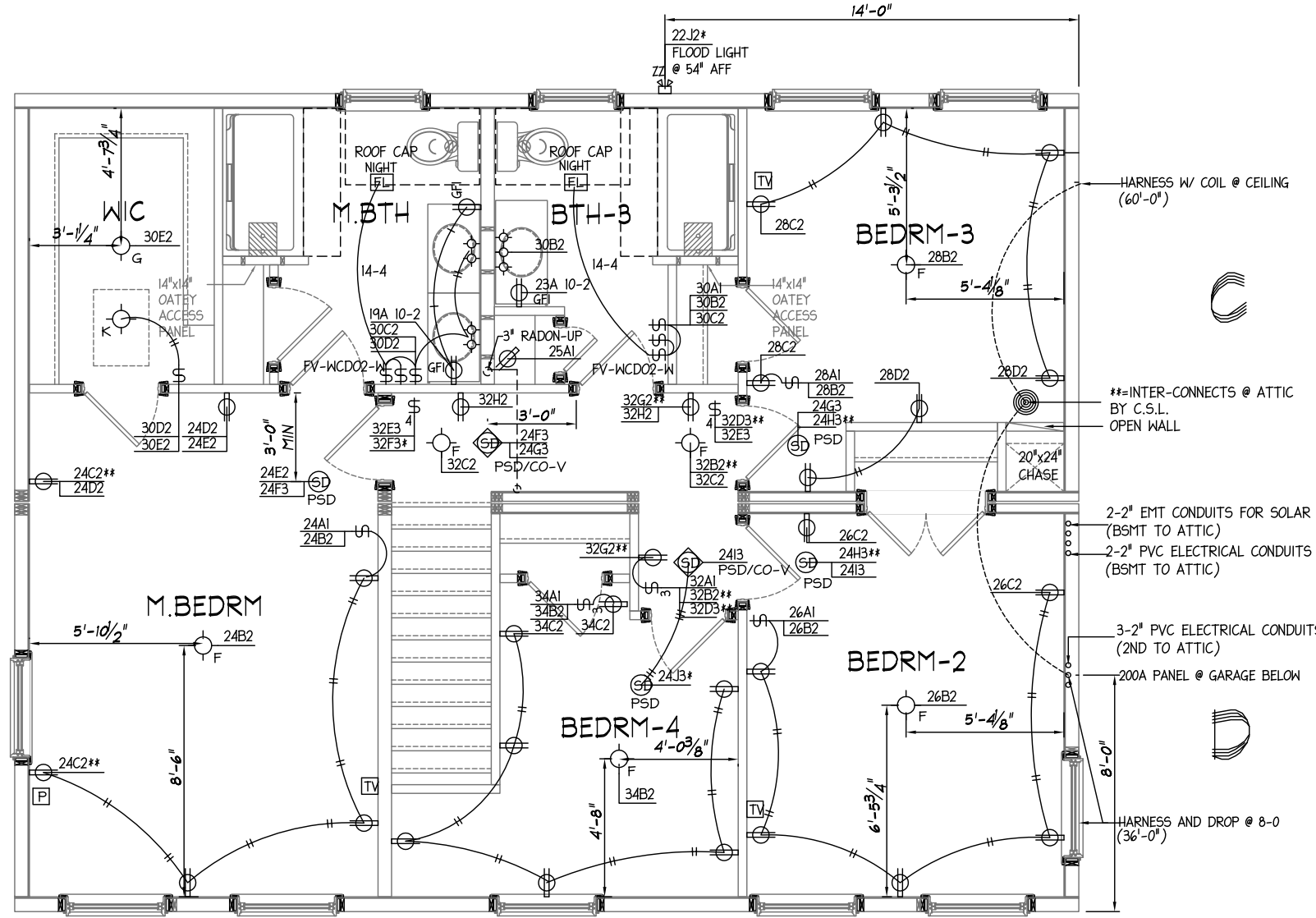
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CIRCUIT LEGEND		
EXAMPLE	1	2 3
		A
1. CIRCUIT #		
2. JUMPER		
	(A=BREAKER / B=B / C=C / ETC.)	
3. WIRE SIZE		
1- 12-2 / 2- 14-2 / 3- 14-3 / 4- 12-3	/	//
	///	////

LOW VOLTAGE KEY	
1-THERMOSTAT	(18/6)
2-BELL	(18/2)
3-CHIMES	(18/3)
4-HRV CONTROL	(18/6)
5-CENTRAL VAC	(18/2)

11426	Drawn:	JMS
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<p>ADVANCED DEVELOPMENT INC</p>		
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<p>Scale: 3/16"=1'-0"</p>		
<p>SECOND FLOOR PLAN ELECTRICAL</p>		

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MECHANICAL DRAWING LIST

M-1	LEED SHEET
M-2	FIRST FLOOR PLAN MECHANICAL
M-3	SECOND FLOOR PLAN MECHANICAL
M-4	PLUMBING ISOMETRICS

LEDGEND

	SANITARY LINE
	VENT LINE
	DCW LINE
	DHW LINE
	PLUMBING RISER

△ GENERAL NOTES

- 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.
- 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 WYE FITTINGS.
- ALL HORIZONTAL TO VERTICAL CONNECTIONS TO BE MADE WITH REGULAR SWEEP 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)
- 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.
- DHW 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.

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" OR LESS PIPE.
 8. PLUMBING IS CUSTOM INSTALLED AND SUPPORTED BY BORED HOLES IN THE STACK WALL.
 9. DHW SUPPORT STRAPPING IS 3/4" WIDE MIN.
 10. HORIZONTAL DRAIN LINES SUPPORTED AT 4'-0" MIN. INTERVALS FOR 3" PIPE AND 3'-0" MIN. INTERVALS FOR 1 1/2" AND 2" PIPE.
 11. ALL VENTS THRU ROOF SHALL INCREASE TO 3" FROM 24" ABOVE TO 12" BELOW ROOFLINE.(SEE DETAILS 3&4)
 12. 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 MANUFACTURERS INSTRUCTIONS AND APPLICABLE BUILDING, PLUMBING & MECHANICAL CODES) RESPONSIBILITY OF THE CONSTRUCTION SUPERVISOR LICENSEE.

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 CONSTRUCTION SUPERVISOR LICENSEE 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 RESPONSIBILITY OF THE CONSTRUCTION SUPERVISOR LICENSEE 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 FLOOD 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) RESPONSIBILITY OF THE CONSTRUCTION SUPERVISOR LICENSEE, REQUIRED TO BE ANTI-SYPHON 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) RESPONSIBILITY OF THE CONSTRUCTION SUPERVISOR LICENSEE.
- 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) RESPONSIBILITY OF THE CONSTRUCTION SUPERVISOR LICENSEE.
- CAVES 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) RESPONSIBILITY OF THE CONSTRUCTION SUPERVISOR LICENSEE.
- 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. RESPONSIBILITY OF THE CONSTRUCTION SUPERVISOR LICENSEE.
- 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 CONSTRUCTION SUPERVISOR LICENSEE

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°	OUTSIDE NUMBER TAKEN FROM MANUAL J CHART
OUTDOOR DESIGN TEMPERATURE-	+19°	(WINTER DRY BULB)
DESIGN TEMPERATURE DIFF.-	61°	WITH 15 MPH. WINDS

ROOM HEATING REQUIREMENTS:

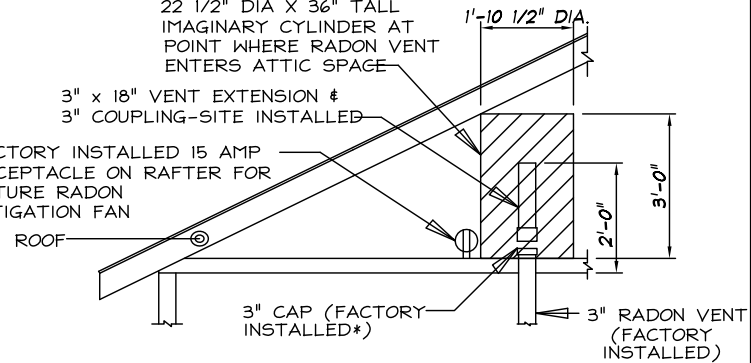
TOTAL BTUH LOSS @ DESIGN TEMPERATURE: THE SUM OF BTUH LOSS FOR WALLS, GLASS, CEILING, FLOOR AND INFILTRATION OF ROOM BEING CALCULATED.

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 570+ 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

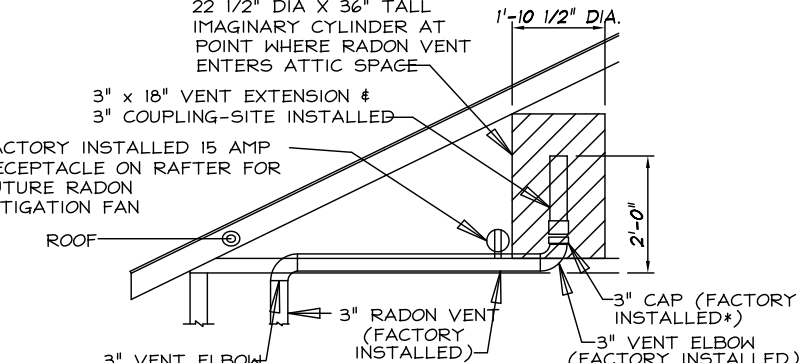
ELECTRIC: TOTAL WATTS LOSS DIVIDED BY 250 WATTS/LIN. FT. OF BASEBOARD=TOTAL LENGTH OF ELECTRIC BASEBOARD REQUIRED FOR ROOM BEING CALCULATED.

*CAP IS TEMPORARILY INSTALLED IN THE FACTORY

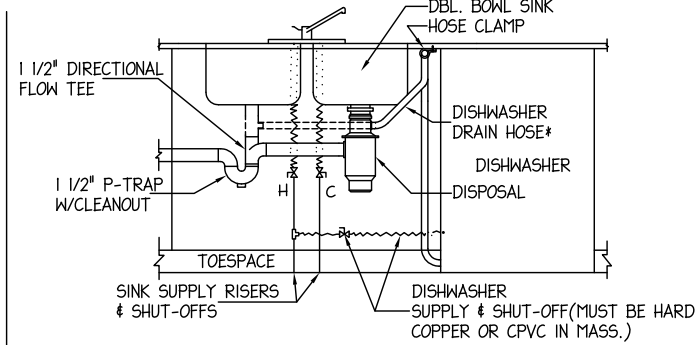


RADON VENT INSTALLATION DETAIL NO SCALE

*CAP IS TEMPORARILY INSTALLED IN THE FACTORY

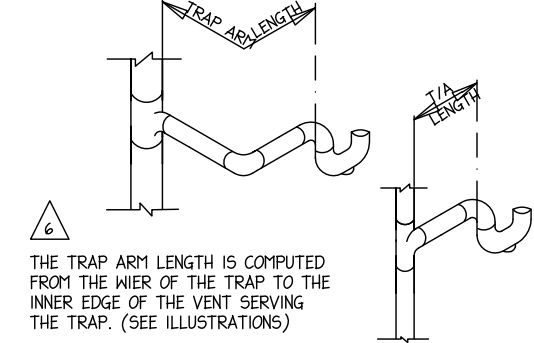


RADON VENT INSTALLATION DETAIL NO SCALE

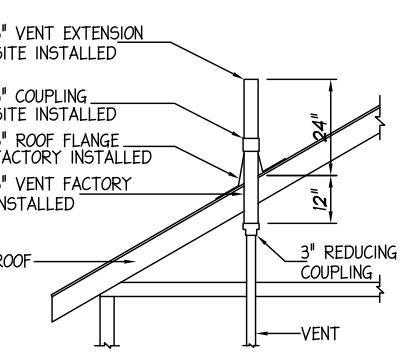


DISHWASHER AND/OR GARBAGE DISPOSAL INSTALLATION W/O AIR GAP DEVICE (STD.)

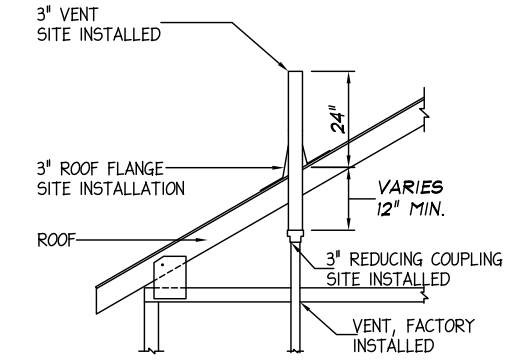
*THE DISHWASHER HOSE SHALL BE LOOPED TO THE UNDERSIDE OF THE COUNTERTOP AND SHALL BE SECURED IN PLACE WITH A HOSE CLAMP. FROM THIS POINT THE DRAIN HOSE WILL BE ATTACHED TO EITHER THE INLET PORT IN THE GARBAGE DISPOSAL PROVIDED FOR THAT PURPOSE, OR TO A WASTE TEE INSTALLED ABOVE THE KIT. SINK CONT. WASTE TEE & P-TRAP, IF NO GARBAGE DISPOSAL IS INSTALLED.



TRAP ARM LENGTHS (NO SCALE)



VENT TERMINATION DETAIL FOR TRUSS ROOFS (NO SCALE)



VENT TERMINATION DETAIL FOR PINNED RAFTER ROOFS (NO SCALE)

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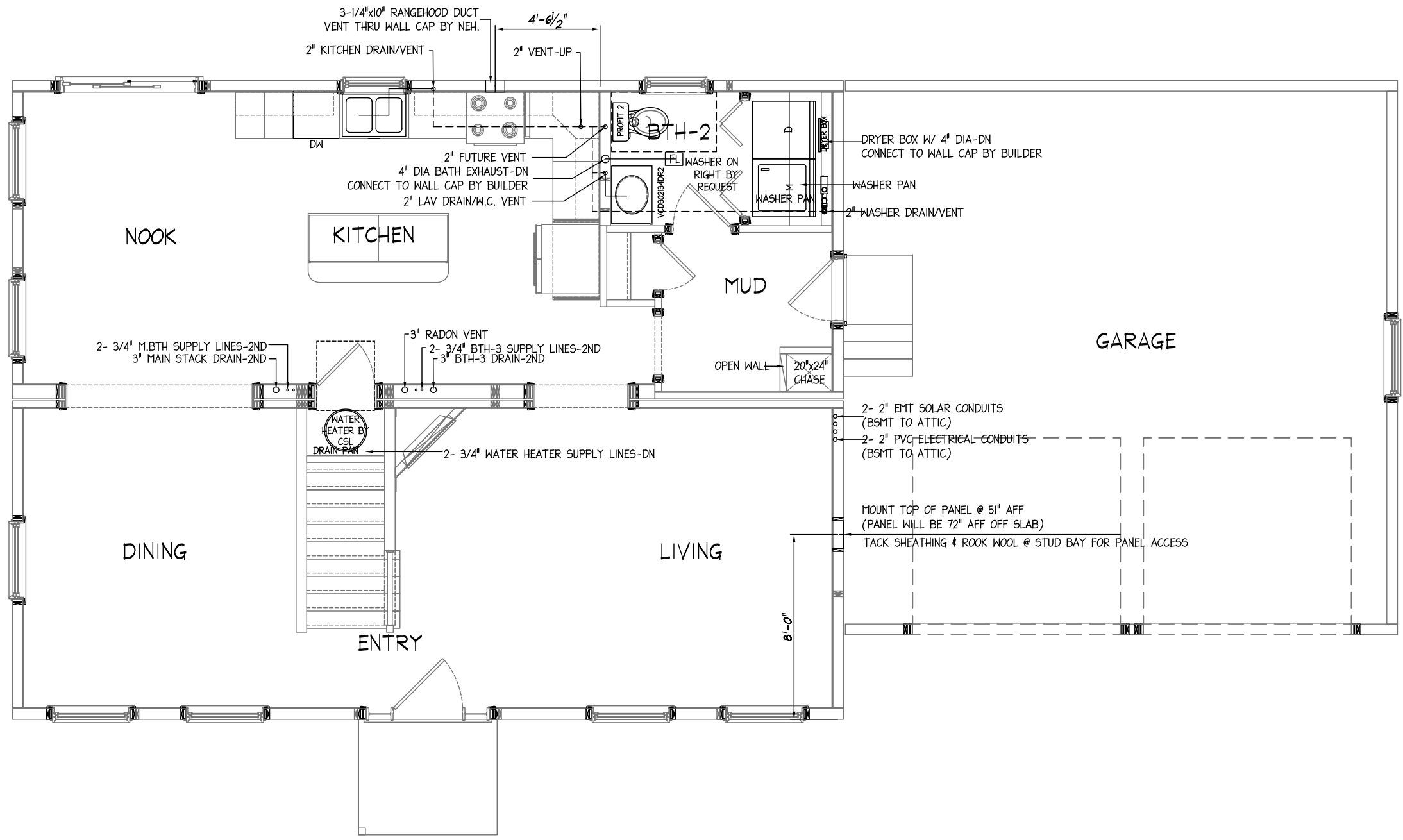
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	JMS
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	RTA

11426
 Revision: **C**
 Sheet: **M-1**

ADVANCED DEVELOPMENT INC
 Structure Desc: **COLONIAL**
 Scale: **N.T.S.**
LEED SHEET



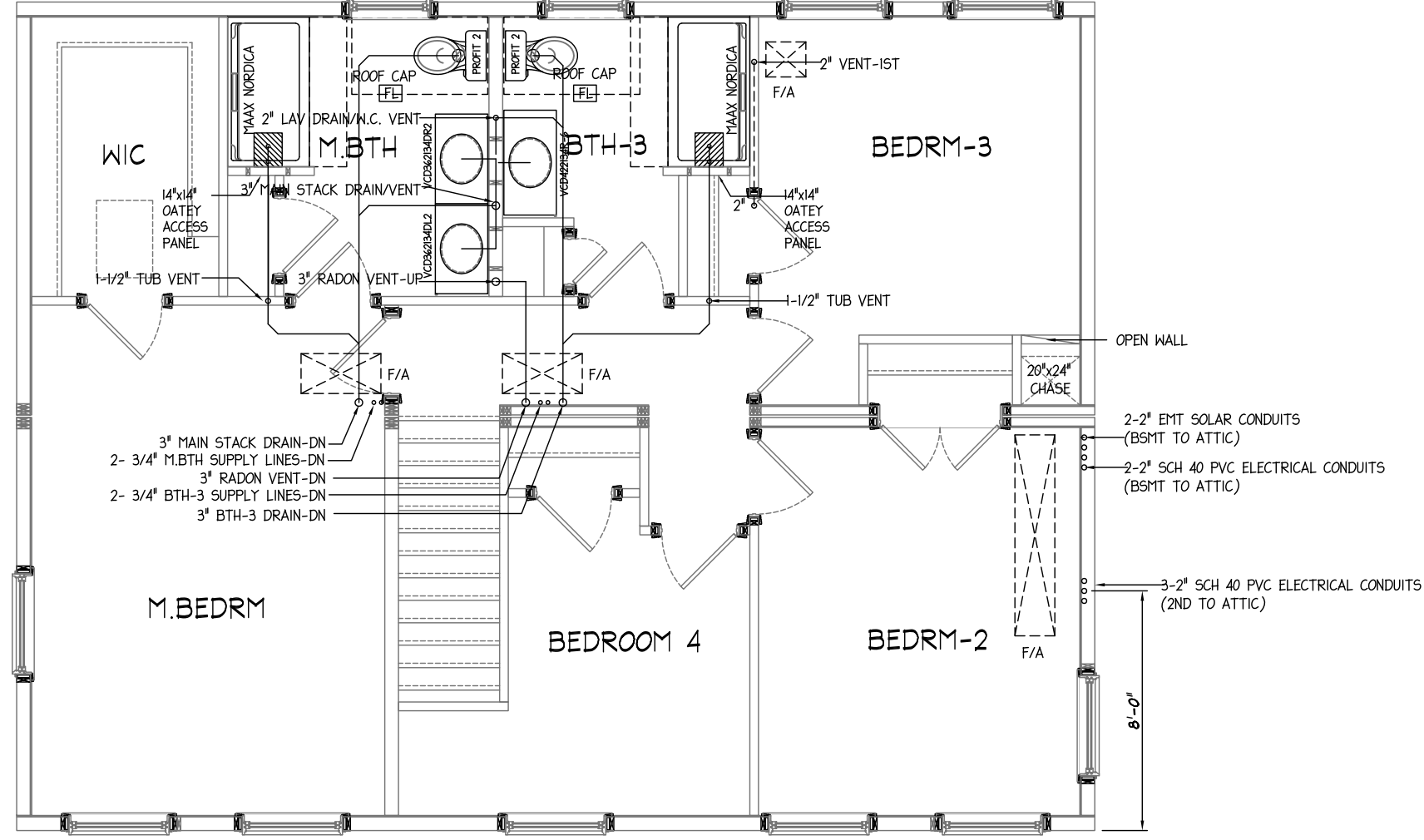
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<p>New England Homes</p>		
<p>ADVANCED DEVELOPMENT INC Structure Desc: COLONIAL</p>		
<p>Scale: 3/16"=1'-0"</p>		
<p>FIRST FLOOR PLAN MECHANICAL</p>		

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MAIN WATER DISTRIBUTION PIPE SIZED BY CSL PER 248 CMR SECTION 10:14 - TABLES 1, 2 & 3.
 STATIC PRESSURE 45 PSI* (MIN) / MINUS PRESSURE LOSS (10' X 0.5) = 5 PSI / ADJUSTED PRESSURE 40 PSI.
 DEVELOPED LENGTH OF PIPE 36' X 1.2 = 43'-2"

248 CMR 10:14 TABLE 1 - FACTOR VALUES:

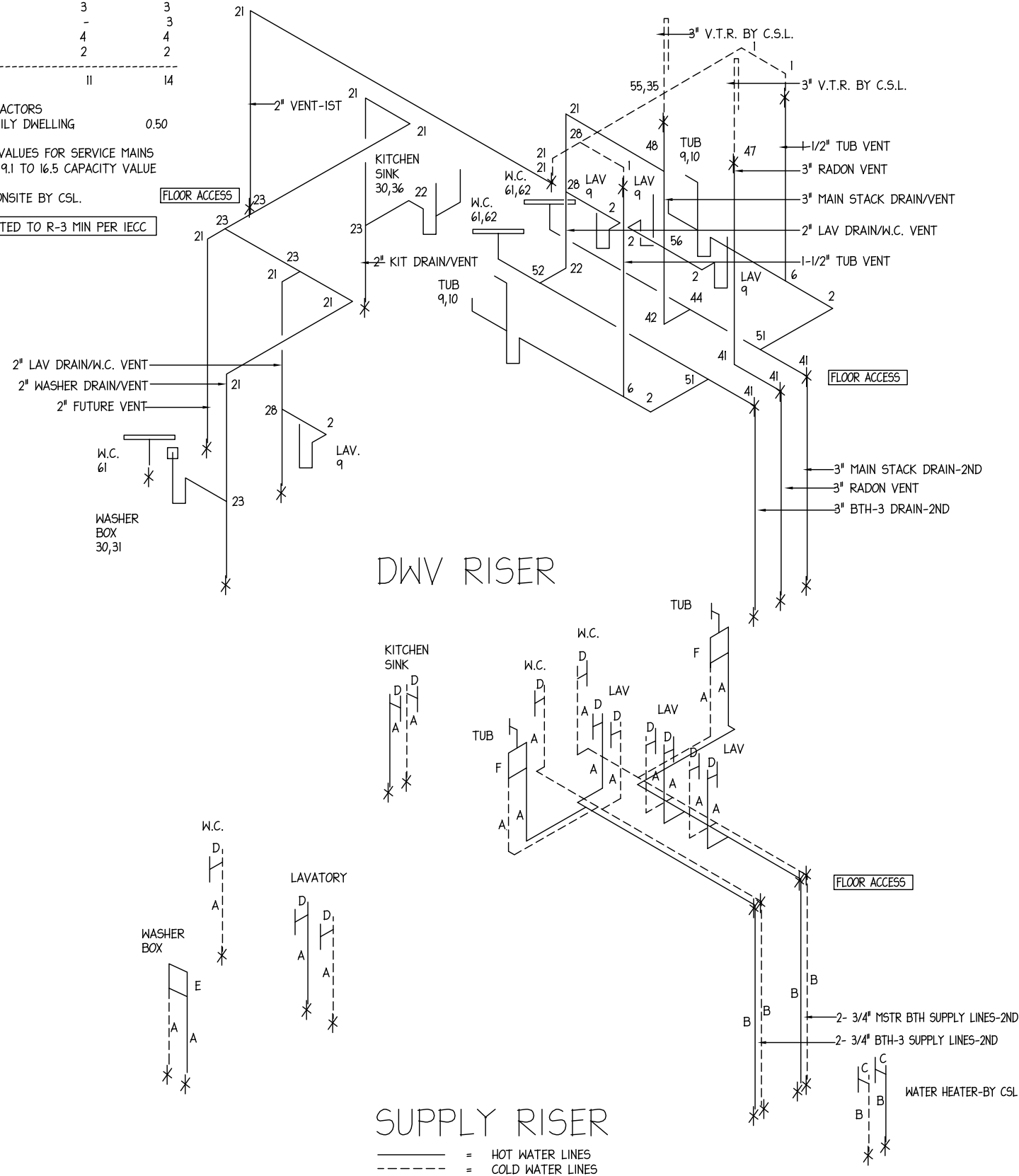
	HOT	COLD
ONE - KITCHEN SINK x2	2	2
THREE - LAVATORIES x1	3	3
THREE - TOILETS x1	-	3
TWO - BATHTUBS x2	4	4
ONE - LAUNDRY VALVE x2	2	2
TOTAL FACTOR VALUES:	11	14

248 CMR 10:14 TABLE 2 - DEMAND FACTORS
 RESIDENTIAL - ONE OR TWO FAMILY DWELLING 0.50

248 CMR 10:14 TABLE 3 - CAPACITY VALUES FOR SERVICE MAINS
 3/4" METER / 1" DISTRIBUTION / 9.1 TO 16.5 CAPACITY VALUE

*=FIELD VERIFY STATIC PRESSURE ONSITE BY CSL.

ALL HOT WATER LINES ARE INSULATED TO R-3 MIN PER IECC



DWV RISER

SUPPLY RISER

— = HOT WATER LINES
 - - - = COLD WATER LINES

DWV & SUPPLY RISERS SHOWN MIRROR IMAGE

DWV FITTING SCHEDULE

- 1-1/2" 90 DEGREE ELL
- 1-1/2" LS 90 DEGREE ELL
- 1-1/2" SANI-TEE
- 1-1/2" WYE w/ 1/8" BEND
- 1-1/2" DBL TEE
- 1-1/2" WYE
- 1-1/2" COUPLING
- 1-1/2" 1/8" BEND
- 1-1/2" P-TRAP W/ CLEAN OUT
- TUB DRAIN & OVERFLOW
- 1-1/2" 45 DEGREE ELL
- 2" 90 DEGREE ELL
- 2" 90 DEGREE LS TEE
- 2" SANI-TEE
- 2" WYE W/ 1/8" BEND
- 2" DBL TEE
- 2" WYE
- 2" COUPLING
- 2" X 2" X 1-1/2" SANI-TEE
- 2" 1/8" BEND
- 2" P-TRAP W/ CLEAN OUT
- LAUNDRY STAND PIPE (18"-36")
- 2" X 2" X 1-1/2" WYE
- 2" X 2" X 1-1/2" WYE W/ 1/8" BEND
- 2" X 2" X 1-1/2" DBL TEE
- 2" X 1-1/2" COUPLING
- CONTINUOUS WASTE
- 2" X 1-1/2" X 2" SANI-TEE
- 2" 45 DEGREE ELL
- 3" 90 DEGREE ELL
- 3" 90 DEGREE LS ELL
- 3" SANI-TEE
- 3" WYE W/ 1/8" BEND
- 3" DBL TEE
- 3" WYE
- 3" COUPLING
- 3" X 3" X 2" SANI-TEE
- 3" X 3" X 1-1/2" SANI-TEE
- 3" WYE 1/8" BEND
- 3" X 3" X 1-1/2" WYE
- 3" X 3" X 2" WYE W/ 1/8" BEND
- 3" X 3" X 2" DBL TEE
- 3" X 3" X 1-1/2" X 1-1/2" DBL TEE
- 3" X 2" COUPLING
- 3" 45 DEGREE ELL
- 4" CLOSET FLANGE
- 4" X 3" CLOSET ELL

SUPPLY FITTING

- A= 1/2" PEX TUBING
- B= 3/4" PEX TUBING
- C= 3/4" COMP STOP
- D= 1/2" COMP STOP
- E= WASHER BOX
- F= ANTI-SCALD MIXING VALVE

FACTORY STANDARDS

- 1-FIRST FLOOR PLUMBING VENTS TO BE COMPLETED ON SITE BY CSL.
- 2-SHUT-OFFS FOR KITCHEN SINK, VANITIES & WATER CLOSETS ARE HOME-RUN TO THE BASEMENT FOR ON-SITE CONNECTION BY CSL.
- 3-ALL PLUMBING INCLUDING WATER HAMMER ARRESTORS & CLEAN OUTS BELOW FIRST FLOOR DECK ARE SUPPLIED & INSTALLED BY CSL.
- 4-MAIN WATER DISTRIBUTION PIPE SIZED BY CSL PER 240 CMR SECTION 10:14 - TABLES 1, 2 & 3. STATIC PRESSURE 40 PSI (MIN) / 80 PSI (MAX) MINIMUM SIZE FOR BUILDING SUPPLY IS 3/4" PIPE.

PLEASE CHECK APPROPRIATE BOX, SIGN, DATE, AND RETURN TO N.E.H. PLANS NOT CHECKED, SIGNED, AND DATED WILL BE RETURNED 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 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 ME ANOTHER SET OF PERMIT PLANS TO REVIEW.

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New England Homes

ADVANCED DEVELOPMENT INC

Structure Desc: COLONIAL

N.T.S. PLUMBING ISOMETRICS

Drawn: 4/28/21

11426

Revisions: JMS

Revision: C

4/28/21

Sheet: M-4

JMS

Scale:

5/12/21

Builder: RTA

RTA

6/28/2021

RTA

Signature

Date

Signature

Date

Date