

MAINE STATE NOTES:

1. KITCHEN RANGE HOODS AND COMBINATION HOOD/MICROWAVE OVENS TO BE VENTED TO THE EXTERIOR OF THE HOME.

2. ALL BATHROOMS MUST BE EQUIPPED WITH AN EXHAUST FAN THAT HAS A MINIMUM RATING OF 50 CFM AND A SOUND RATING OF 3 SONES OR LESS. ALL BATH FANS MUST BE VENTED TO THE EXTERIOR OF THE HOME.

3. ALL CLOTHES DRYERS TO BE VENTED TO THE EXTERIOR OF THE HOME.

4. A 3" MINIMUM DIAMETER RADON VENT PIPE MUST BE INSTALLED UP THROUGH ALL THE BUILDING FLOORS AND INTO THE ATTIC ABOVE CONDITIONED SPACE TO ALLOW A 22 1/2" DIA. X 36" HIGH CYLINDRICAL WORKSPACE ABOVE THE PIPE. POWER SHALL BE RUN FROM A GENERAL LIGHTING NON-AFCI CIRCUIT AND SHALL BE TERMINATED IN AN APPROVED J-BOX IN THE ATTIC IN THE AREA OF THE RADON VENT PIPE. VENT PIPE AND JUNCTION BOX SHALL BE CAPPED AND IDENTIFIED "FOR FUTURE RADON MITIGATION SYSTEM".

IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO SEAL ALL POTENTIAL RADON ENTRY ROUTES IN THE FOUNDATION LEVEL WALLS, FLOOR AND CEILING. TYPICAL ENTRY ROUTES ARE OPENINGS AROUND BATHTUBS, SHOWERS, WATER CLOSETS, PIPES, WIRES OR OTHER OBJECTS THAT PENETRATE FLOOR AND WALL ASSEMBLIES. ENTRY ROUTES SHALL BE SEALED WITH A SUITABLE SEALANT APPLIED IN ACCORDANCE WITH THE PRODUCT MANUFACTURER'S RECOMMENDATIONS.

WITH EXPANDABLE STYLE (RAFTERED) ROOF, IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO EXTEND THE RADON VENT PIPE & ELECTRICAL SUPPLY TO A PERMANENT LOCATION IN THE ATTIC, ABOVE THE CONDITIONED SPACE IN A LOCATION THAT IS PERMANENTLY ACCESSIBLE. BOTH FACTORY & SITE INSTALLED RADON VENT PIPE & J-BOX SHALL BE LABELED & TERMINATED TO MEET CODE.

5. ALL JOINTS, SEAMS, PENETRATIONS AND OPENINGS BETWEEN WINDOW AND DOOR ASSEMBLIES AND THEIR RESPECTIVE JAMBS AND FRAMING, AND OTHER SOURCES OF AIR LEAKAGE (INFILTRATION AND EXFILTRATION) THROUGH THE BUILDING THERMAL ENVELOPE SHALL BE CAULKED, GASKETED, WEATHERSTRIPPED, WRAPPED OR OTHERWISE SEALED TO LIMIT UNCONTROLLED AIR MOVEMENT. (2015 IRC, N102.4).

6. DRAFT STOP MATERIALS SHALL BE DETERMINED IN ACCORDANCE WITH THE NATIONAL FENESTRATION RATING COUNCIL, INC. (NFRC), NFRC 100-2004.

1. 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 THWISTBACK ROAD, CLAREMONT, N.H. 03743  
MANUFACTURER LICENSE NUMBER: MF70000176  
ASSIGNED BY THE STATE OF MAINE,  
MANUFACTURED HOUSING BOARD  
EXPIRATION DATE OF CURRENT LICENSE:  
6-30-2021

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 APPROVED BY THE STATE OF MAINE

3. INDEX OF DRAWINGS  
31 SHEETS, REVISION EE, DATED 8/3/2020

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  
REFER SPRINKLER DRAWINGS (SPRINKLER SYSTEM TO BE INSTALLED BY LIFE SAFETY OF DUBLIN NEW HAMPSHIRE. THE SYSTEM WILL BE NFPA 13D WET SYSTEM)

GENERAL NOTES  
1. N.E.H. (NEW ENGLAND HOMES) LIMITS ITS SITE RESPONSIBILITIES TO SETTING AND ATTACHING MODULAR UNITS TO BUILDER'S PROPERLY DESIGNED AND PREPARED FOUNDATION AND ANCHORAGE

2. ALL NOTES CONTAINING THE TERM "BY BUILDER" 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 BUILDER AND THE LOCAL BUILDING INSPECTOR. ALL NOTES CONTAINING THE TERM "BY BUILDER" ALSO DEFINE AREAS OF RESPONSIBILITY WHICH ARE NOT SANCTIONED BY THE THIRD PARTY INSPECTION AGENCY OR THE STATE OF MAINE'S CERTIFICATION OF MANUFACTURED HOUSING FOR THIS PROJECT.

3. THE TERM "SHIP LOOSE" AND "SHIPPED LOOSE" REFERS TO ITEMS TO BE INSTALLED ONSITE BY THE BUILDER. 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

4. EXTERIOR DOORS ARE TACKED AND FINAL INSTALLATION IS DONE ONSITE BY THE BUILDER.

5. ELEVATIONS ARE FOR GRAPHIC REPRESENTATION ONLY.

6. THE BUILDER IS RESPONSIBLE FOR ALL FINAL FASTENING OF EXTERIOR DECKS AND PORCHES, LALLY COLUMNS, PIN RAFTERS, AND OTHER ITEMS.

7. REFER TO THE PURCHASE ORDER, THE PBS/NEH SITE REFERENCE MANUAL, AND THE PLAN SET FOR TYPICAL AS WELL AS LISTED RESPONSIBILITIES.  
8. WINDOW GUARDS SHALL MEET 2015 IRC R312.2 BY FACTORY

4. BUILDING INFORMATION

a) PROJECT: I1387  
PROPOSED ADDRESS: LOT 5 ORCHARD COVE CUMBERLAND, MAINE 04021  
b) USE GROUP: SINGLE FAMILY  
c) CONSTRUCTION CLASSIFICATION: WOOD FRAMED  
d) AREA OF BUILDING PER FLOOR: 1378 SQ FT (1ST) + 1107 SQ FT (2ND)  
e) HEIGHT OF BUILDING:  
1. MAX. 3 HABITABLE STORIES ABOVE GRADE PLANE  
f) DESIGN OCCUPANCY LOAD: FIVE LODGERS OR BOARDERS PER FAMILY  
g) 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 IRC R314  
1b. TYPE OF FIRE ALARM SYSTEM:  
HOUSEHOLD FIRE WARNING SYSTEM (CARBON MONOXIDE DETECTORS) IN COMPLIANCE WITH NFPA 720-5.2.2 AND IRC R315  
2. TYPE OF FIRE SUPPRESSION SYSTEM: 13D WET SYSTEM  
FLOW RATE: 38.2 GPM @ 27.2 PSI FOR 10 MINUTES  
LIFE SAFETY FIRE PROTECTION INC.  
97 LOWER JAFFREY ROAD  
DUBLIN, NH 03444  
PHONE 603-563-7700 FAX 603-563-7070  
WWW.LIFESAFTYFIRE.COM  
h) GROUND SNOW LOAD (Pg): 50 PSF  
i) WIND SPEED (3 SEC. GUST): 115 MPH Vuit (DESIGN)  
j) EXPOSURE CATEGORY: B  
k) DESIGN LIVE LOADS: REQ'D. DESIGN  
1. ROOF 20 psf 20 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

l) DESIGN OF STAIRS: (MAINE AMMENDMENT)  
1. MAXIMUM RISER: 8 1/4" DESIGN: 7-3/4"  
2. MINIMUM TREAD: 9" DESIGN: 10"  
3. MINIMUM HEADROOM: 6'-8"  
4. MINIMUM WIDTH: 3'-0"  
m) WINTER DESIGN TEMPERATURE  
INSIDE +70°F OUTSIDE +4°F  
n) SEISMIC DESIGN CATEGORY: B  
o) SPECIAL USE PROVISIONS, CONDITIONS AND LIMITATIONS  
-EXTERIOR WALLS AND FIRE RESISTANCE RATINGS PER TABLES 601& 602  
-DISCLAIMER: THIS HOUSE NOT BE SET IN A FLOOD HAZARD AREA

5. TYPE OF HEATING SYSTEM

a. HEAT BY BUILDER  
b. TYPE OF CHIMNEY/VENTING SYSTEM(S): NOT BY THE COMPANY. SUPPLIED AND INSTALLED BY THE BUILDER AND INSPECTED AND APPROVED BY THE CODE ENFORCEMENT OFFICER.

6. EXTERIOR ENVELOPE THERMAL PERFORMANCE

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

7. STATE CODES

2015 INTERNATIONAL RESIDENTIAL CODE W/ ME STATE AMENDMENTS  
2015 UNIFORM PLUMBING CODE W/ ME STATE AMENDMENTS  
2017 NATIONAL ELECTRICAL CODE W/ ME STATE AMENDMENTS  
2012 NFPA - 54 NFGC  
E-1465-2006 STD. PRACTICE FOR RADON CONTROL IN LOW RISE RESIDENTIAL BUILDINGS  
MAINE ENERGY STANDARD  
2009 IECC  
62.2-2013 VENTILATION FOR ACCEPTABLE AIR QUALITY IN LOW RISE RESIDENTIAL BUILDINGS  
2012 NATIONAL FUEL GAS NOTE: FOR CENTRAL HEATING EQUIPMENT AND WATER HEATING APPLIANCES WHERE THE INTERRUPTION OF AN ELECTRICAL CIRCUIT WILL ARREST THE COMBUSTION PROCESS, THE BUILDER MUST INSTALL AN IDENTIFIED EMERGENCY SHUTDOWN SWITCH OUTSIDE OF AND ADJACENT TO THE ENTRANCE OF THE ROOM WHERE THE APPLIANCE IS LOCATED. AN EMERGENCY SWITCH SHALL NOT BE PLACED OUTSIDE ANY BUILDING. IF THE ENTRANCE TO THE BOILER ROOM IS ONLY ACCESSIBLE FROM THE OUTSIDE, THE EMERGENCY SWITCH MAY BE PLACED AT THE INSIDE, NOT MORE THAN ONE FOOT BEYOND THE DOOR OPENING.

8. SPACE FOR APPROVAL STAMPS

9. DATA / CODE PLATE & STATE LABEL LOCATIONS

a) I T.R.A. LABEL PER MODULE BOX TYPICALLY ON BACK WALL OF A CLOSET AND ON THE WALL UNDER THE KITCHEN SINK.  
b) I DATA/CODE PLATE AND I STATE LABEL PER LIVING UNIT, TYPICALLY UNDER THE KITCHEN SINK.  
c) I STATE OF MAINE WARRANTY SEAL ON CABINET DOOR TYPICALLY UNDER KITCHEN SINK.  
d) DATA/CODE PLATE, STATE LABEL AND TRA LABEL LOCATIONS ARE SHOWN ON THE FLOOR PLANS.

SCALE: AS NOTED	NEW ENGLAND HOMES A DIVISION OF PREFERRED BUILDING SYSTEMS INC. 277 LOCUST STREET, SUITE B, DOVER, NH 03820	GENERAL INFORMATION GC:ME
RELEASE CODE: 97-13		
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EACH PAGE MUST BE SIGNED, DATED AND RETURNED TO N.E.H.

Signature \_\_\_\_\_ Date \_\_\_\_\_  
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(Telephone) 800.800.8831  
(Fax) 603.431.9540

**W.P. CLARK AND SON**  
Builder:  
Structure Desc: CUSTOM  
Scale: N.T.S.  
**COVER SHEET**

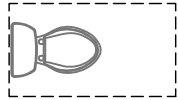


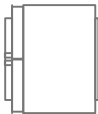

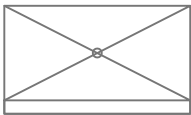
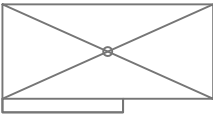
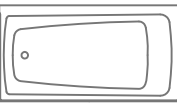
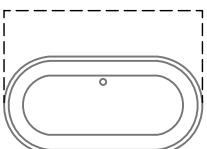

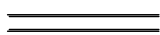
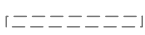
Drawn: 3/11/2020	RTA
Revisions	
4/28/2020	RTA
5/26/2020	RTA
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6/26/2020	RTA
7/2/2020	RTA
8/3/2020	RTA
9/2/2020	RTA

**11387**  
Revision: **GG**  
Sheet: **A-0**

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
A-6	REAR ELEVATION
A-7	LEFT ELEVATION
A-8	RIGHT ELEVATION
A-9	CROSS SECTION
A-10	CROSS SECTION
A-11	CROSS SECTION
A-12	CROSS SECTION
A-13	CROSS SECTION
A-13B	CROSS SECTION
A-14	KITCHEN DETAILS
A-15	KITCHEN DETAILS
A-16	DETAILS
A-17	DETAILS
A-18	DETAILS
A-19	DETAILS
A-20	NOT USED
A-21	BRACE WALL DETAILS
A-22	BRACE WALL DETAILS

- 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
	COOKTOP
	KERDI SHOWER
	KERDI SHOWER
	TUB/SHOWER
	TUB
	WASHER AND DRYER
	NEW WALL
	ON SITE WALL (NOT BY NEH)

**LABEL AND DATA PLATE INDEX:**

TRA THIRD PARTY LABEL TRA/ME/DP/MHB

ME MAINE STATE LABEL TRA

DP DATA PLATE DP

MHB MAINE HOUSING BOARD NEW HOMES WARRANTY

SMIWS INSTALLATION WARRANTY SEAL

**PRODUCTION  
DRAWINGS**

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**W.P. CLARK AND SON**

Structure Desc: **CUSTOM**

**LEED SHEET**

**N.T.S.**

Drawn:	3/11/2020	RTA
Revisions	4/28/2020	RTA
	5/26/2020	RTA
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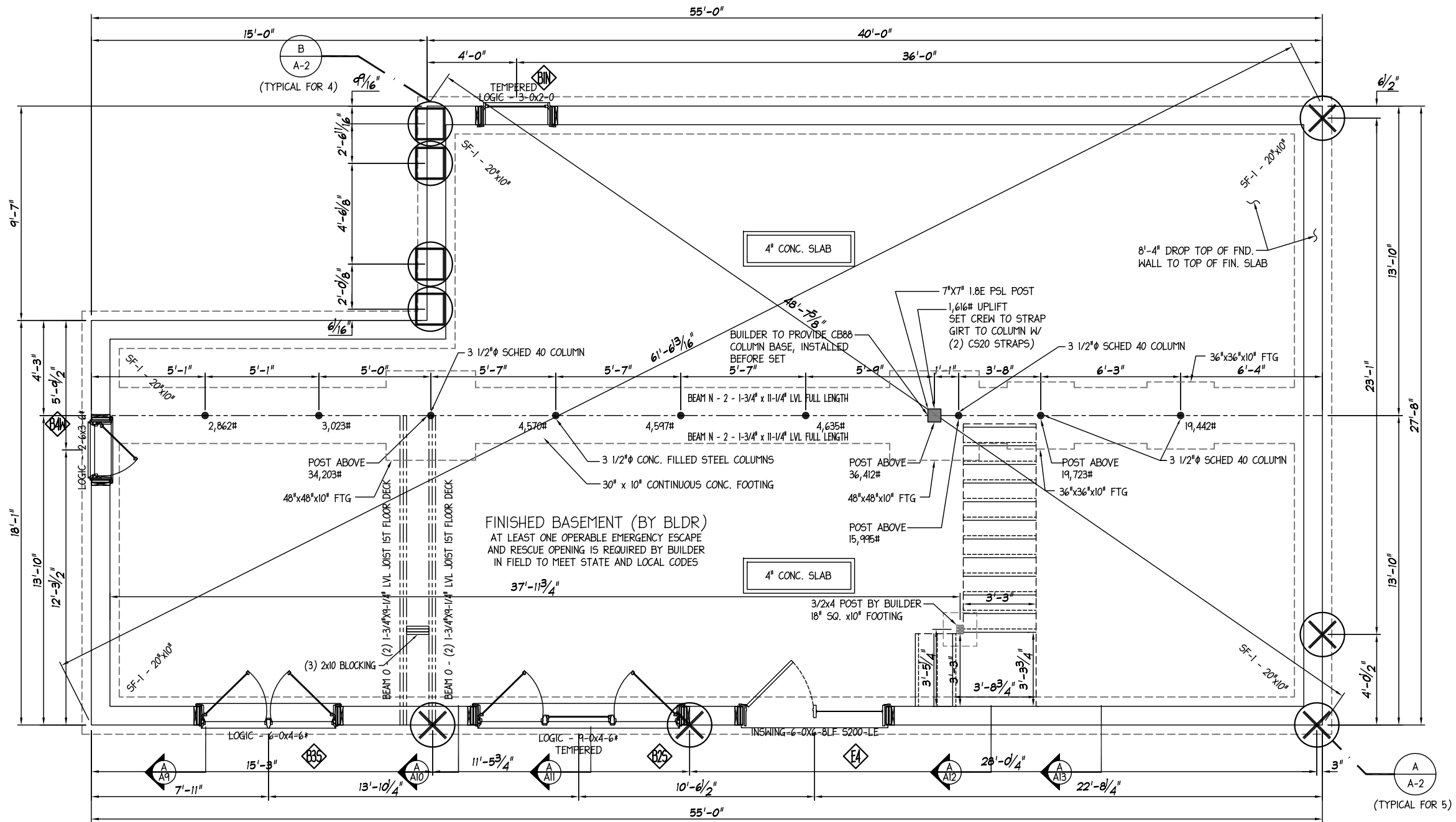
**11387**

Revision: **GG**

Sheet: **A-1**

Builder:

Scale:



FINISHED BASEMENT (BY BLDG)  
 AT LEAST ONE OPERABLE EMERGENCY ESCAPE  
 AND RESCUE OPENING IS REQUIRED BY BUILDER  
 IN FIELD TO MEET STATE AND LOCAL CODES

**NOTES:**

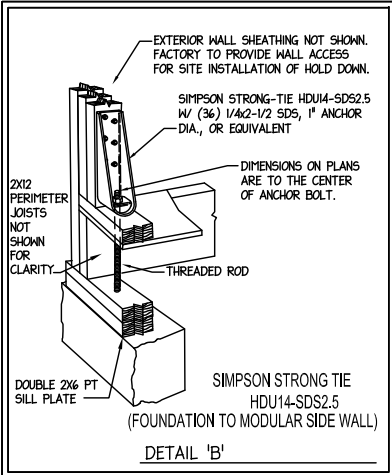
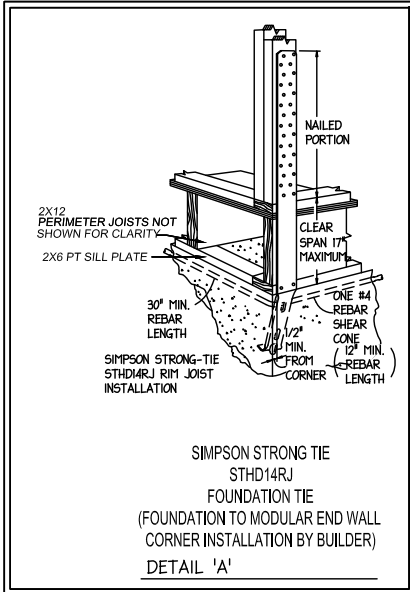
- 1) LALLY COLUMN SPACING IS SUBJECT TO CHANGE UNTIL FINAL APPROVAL
- 2) STRUCTURAL DESIGN OF THE FOUNDATION PER SITE CONDITIONS AND LOCAL AND/OR STATE CODES NOT BY N.E.H.
- 3) BULKHEAD AND SUMP, SIZE AND LOCATION PER SITE CONDITIONS NOT BY N.E.H.
- 4) STUB WALLS, WHETHER SUPPLIED & INSTALLED ON SITE BY THE COMPANY OR BY THE BUILDER, 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 BUILDER 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.

**FOUNDATION/FOOTING NOTES:**

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

**NOTES:**

1. \* = EGRESS WINDOW



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**W.P. CLARK AND SON**

Structure Desc: CUSTOM

**FOUNDATION PLAN**

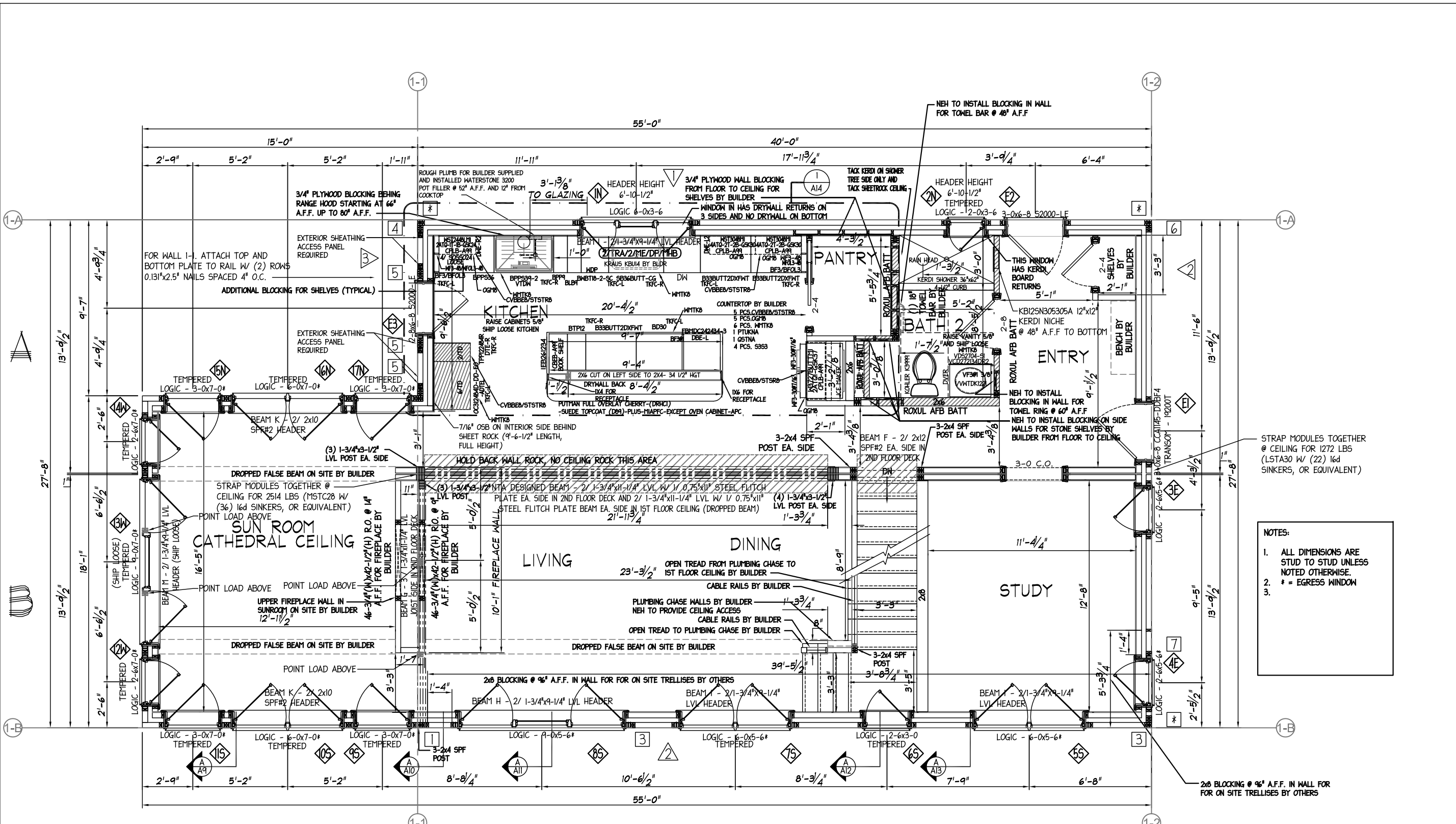
3/16"=1'-0"

Drawn:	RTA
Revisions:	RTA
3/11/2020	RTA
4/28/2020	RTA
5/26/2020	RTA
6/12/2020	RTA
6/26/2020	RTA
7/2/2020	RTA
8/3/2020	RTA
9/2/2020	RTA
Builder:	RTA
Scale:	RTA
Sheet:	RTA

11387

Revision: GG

Sheet: A-2



**NOTES:**

1. ALL DIMENSIONS ARE STUD TO STUD UNLESS NOTED OTHERWISE.
2. \* = EGRESS WINDOW
- 3.

TAG	FORCE REQUIRED	RECOMMENDED HOLDOWN (1ST FLOOR TO FOUNDATION)
1	821 lbf	STHD14RJ W/ (30) 16d SINKERS, OR EQUIVALENT
3	2,505 lbf	STHD14RJ W/ (30) 16d SINKERS, OR EQUIVALENT
4	11,052 lbf	HDUI4-SD52.5 W/ 1" ANCHOR DIA., (36) 1/4" x 2-1/2" SDS, OR EQUIVALENT
5	10,231 lbf	HDUI4-SD52.5 W/ 1" ANCHOR DIA., (36) 1/4" x 2-1/2" SDS, OR EQUIVALENT
6	5,026 lbf	STHD14RJ W/ (30) 16d SINKERS, OR EQUIVALENT
7	4,030 lbf	STHD14RJ W/ (30) 16d SINKERS, OR EQUIVALENT

\* = IN LIEU OF HOLDOWN, FASTEN SIDEWALL TO ENDWALL WITH 0.131"x3" NAILS @ 6" O.C. FOR THE HEIGHT OF THE WALL

EDGE FASTENING	
▽ 1	6" O.C.
▽ 2	4" O.C.
▽ 3	DOUBLE SIDED SHEATHING, 3" O.C.

NOTE: 7/16" STRUCTURAL SHEATHING W/ 0.131"x2" NAILS U.N.O - FIELD FASTENING 12" O.C. TYPICAL

ATTACH UNBLOCKED ROOF AND FLOOR DIAPHRAGM W/ 0.131"x2.5" NAILS @ 6" O.C. BOUNDARY, 6" O.C. EDGE AND 12" O.C. FIELD

1ST STORY RIM TO SILL

LAPPED SHEATHING FASTENED WITH 0.131"x3" NAILS, OR 0.131"x4" TOE NAILS @ SPACING LISTED:

WALL 1-A: 6" O.C. 116 plf  
 WALL 1-B: 6" O.C. 85 plf  
 WALL 1-I: 3" O.C. AND LTP4'S SPACED 6" O.C. 1459 plf  
 WALL 1-2: 4" O.C. 316 plf

\*\* SILL TO FOUNDATION ON SITE BY OTHERS FOR plf LISTED\*\*

NTA IS RESPONSIBLE FOR THE ENGINEERING DESIGN OF THE EXTERIOR SHEAR WALLS ONLY AND THE CLEAR SPAN BEAM IN THE LIVING/DINING/KITCHEN. ALL OTHER WALLS, BEAMS AND ENGINEERING ARE BY NEH. REFER TO DWG. A-21 AND A-22 FOR DETAILS

**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

**LABEL AND DATA PLATE INDEX:**

TRA THIRD PARTY LABEL (TRA/DP/MHB)  
 ME MAINE STATE LABEL (TRA)  
 DP DATA PLATE (DP)  
 MHB MAINE HOUSING BOARD NEW HOMES WARRANTY  
 SMWS INSTALLATION WARRANTY SEAL

**PRODUCTION DRAWINGS**

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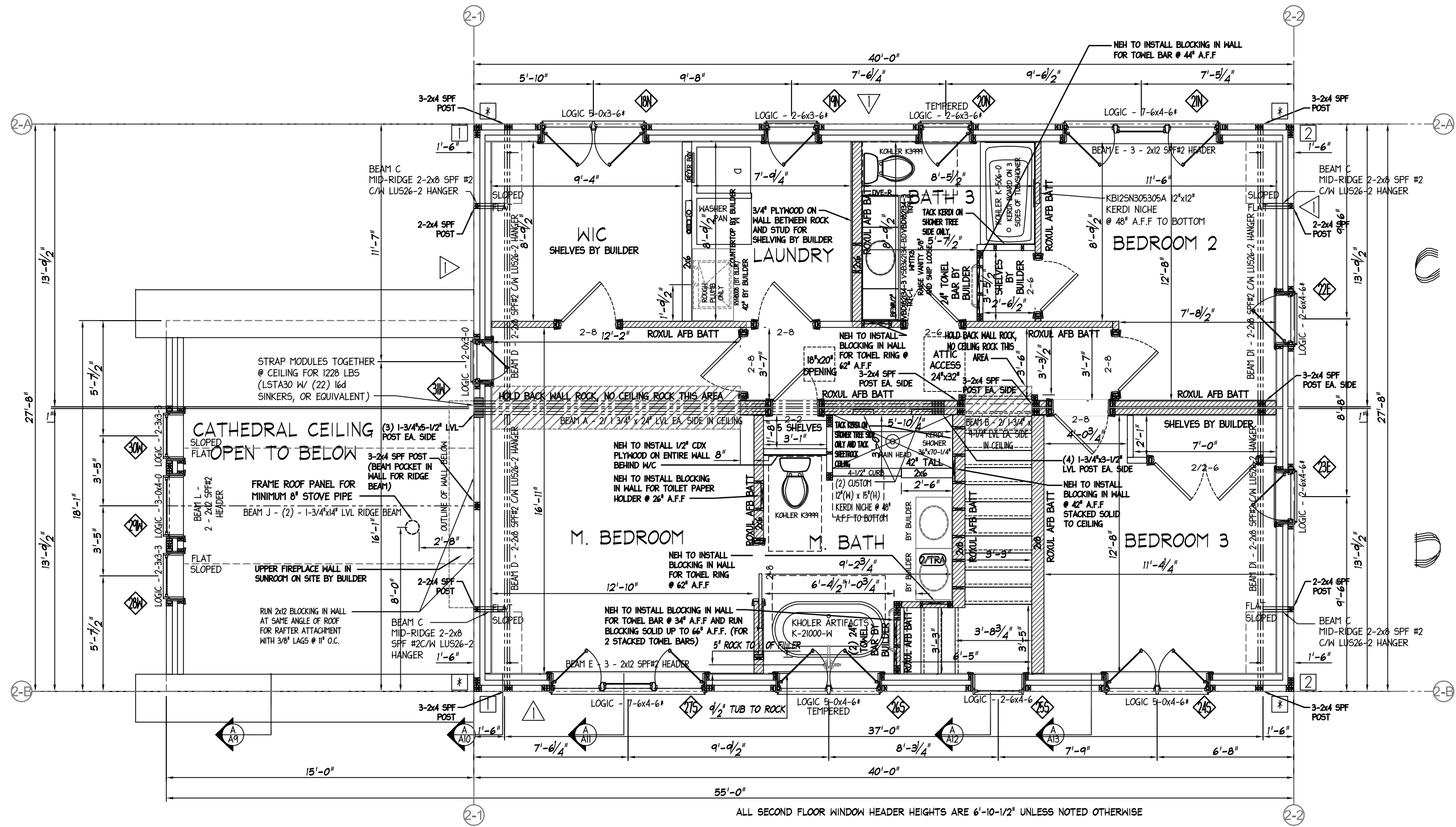
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**W.P. CLARK AND SON**  
 Structure Desc: CUSTOM  
 Scale: 3/16"=1'-0"  
**FIRST FLOOR PLAN**

Drawn: RTA 3/11/2020  
 Revisions: RTA 4/28/2020, RTA 5/26/2020, RTA 6/12/2020, RTA 6/26/2020, RTA 7/2/2020, RTA 8/3/2020, RTA 9/2/2020

11387  
 Revision: GG  
 Sheet: A-3



ALL SECOND FLOOR WINDOW HEADER HEIGHTS ARE 6'-10-1/2" UNLESS NOTED OTHERWISE

TAG	FORCE REQUIRED	RECOMMENDED HOLDOWN (1ST FLOOR TO FOUNDATION)
1	821 lbf	MSTC 40 W/ (20) 16d SINKERS, OR EQUIVALENT
2	996 lbf	MSTC 40 W/ (20) 16d SINKERS, OR EQUIVALENT

\* = IN LIEU OF HOLDOWN, FASTEN SIDEWALL TO ENDWALL WITH 0.131"x3" NAILS @ 6" O.C. FOR THE HEIGHT OF THE WALL

EDGE FASTENING	
▽1	6" O.C.
▽2	4" O.C.

NOTE: 7/16" STRUCTURAL SHEATHING W/ 0.131"x2" NAILS U.N.O  
- FIELD FASTENING 12" O.C. TYPICAL

2ND STORY TO 1ST STORY  
LAPPED SHEATHING FASTENED WITH 0.131x3" NAILS, OR 0.131"x3" TOE NAILS @ SPACING LISTED:  
WALL 2-A: 6" O.C.  
WALL 2-B: 6" O.C.  
WALL 2-1: 6" O.C.  
WALL 2-2: 6" O.C.

NTA IS RESPONSIBLE FOR THE ENGINEERING DESIGN OF THE EXTERIOR SHEAR WALLS ONLY AND THE CLEAR SPAN BEAM IN THE LIVING/DINING/KITCHEN. ALL OTHER WALLS, BEAMS AND ENGINEERING ARE BY NEH. REFER TO DWG. A-21 AND A-22 FOR DETAILS

- NOTES:
- ALL DIMENSIONS ARE STUD TO STUD UNLESS NOTED OTHERWISE.
  - \* = EGRESS WINDOW
  -

LABEL AND DATA PLATE INDEX:  
TRA THIRD PARTY LABEL  
ME MAINE STATE LABEL  
DP DATA PLATE  
MHB MAINE HOUSING BOARD NEW HOMES WARRANTY  
SMWS INSTALLATION WARRANTY SEAL

TRA ME DP MHB SMWS

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

# PRODUCTION DRAWINGS

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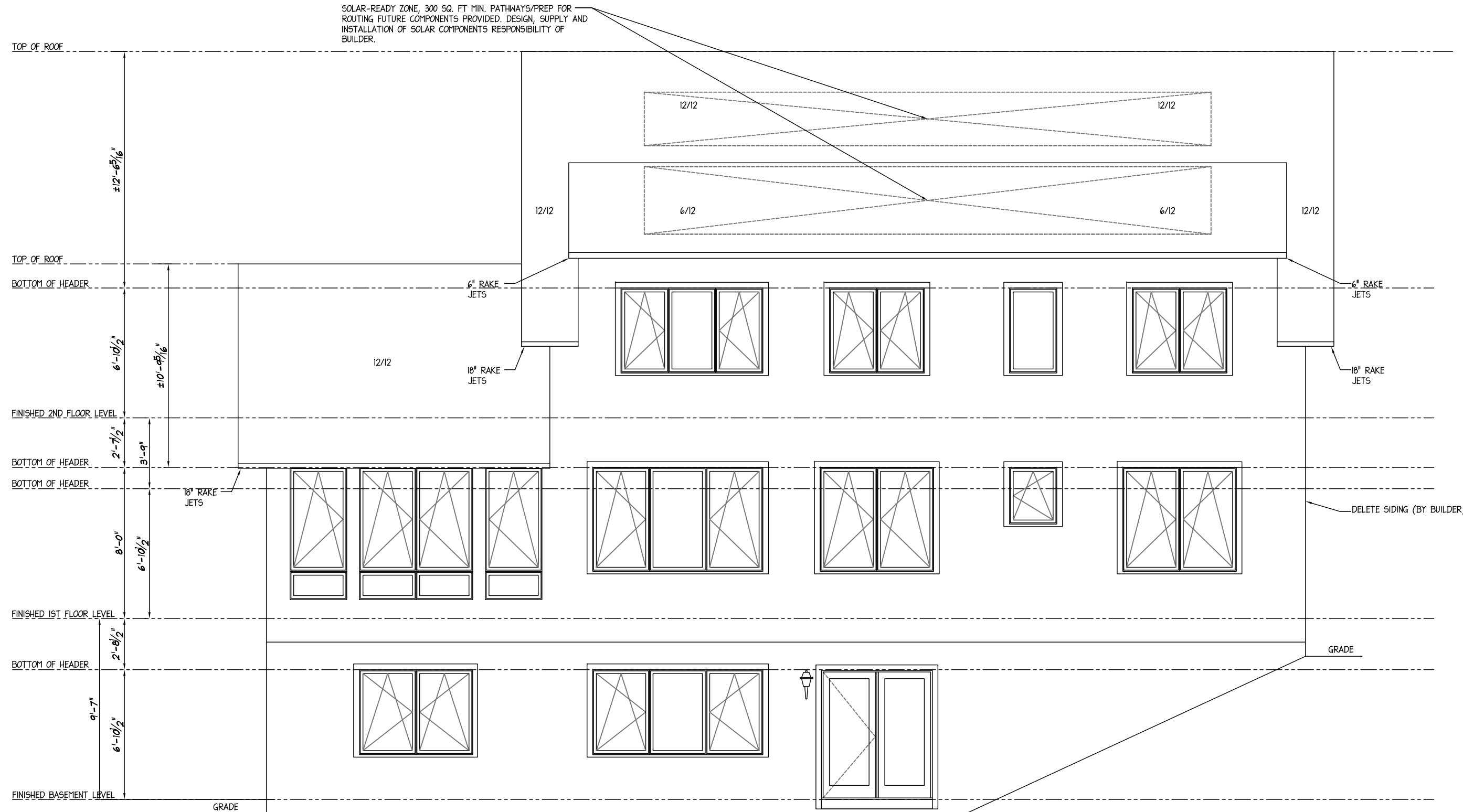
Date: \_\_\_\_\_  
Signature: \_\_\_\_\_  
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**W.P. CLARK AND SON**  
Structure Desc: CUSTOM  
**3/16"-1'-0"**  
**SECOND FLOOR PLAN**

Drawn: 3/11/2020	RTA
Revisions:	
4/28/2020	RTA
5/26/2020	RTA
6/12/2020	RTA
6/26/2020	RTA
7/2/2020	RTA
8/3/2020	RTA
9/2/2020	RTA

11387  
Revision: **GG**  
Sheet: **A-4**




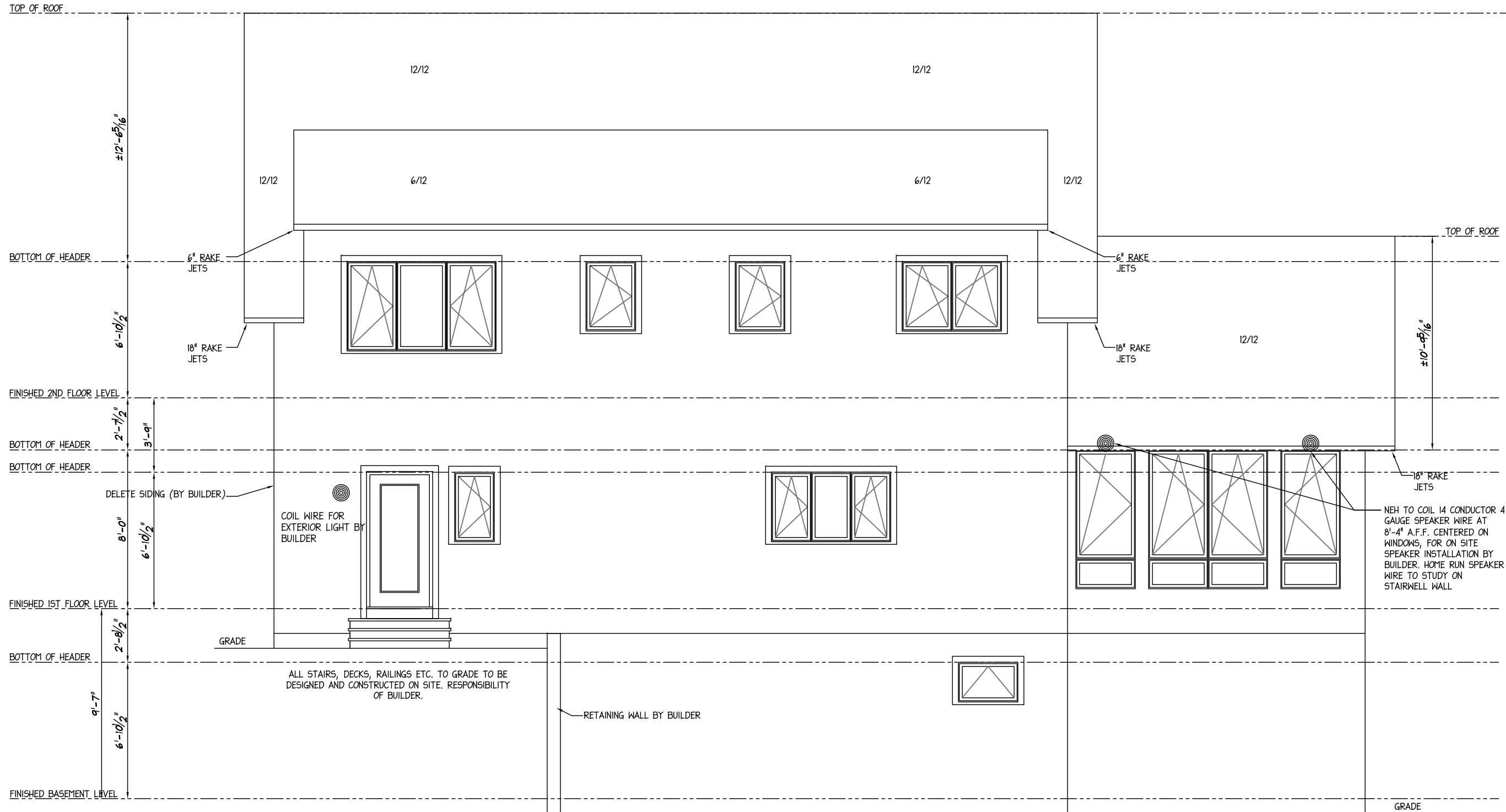
FRONT ELEVATION

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<b>11387</b>	Drawn:	3/11/2020	RTA
	Revisions		
Revision:		4/28/2020	RTA
		5/26/2020	RTA
Sheet:		6/12/2020	RTA
		6/26/2020	RTA
		7/2/2020	RTA
		8/3/2020	RTA
		9/2/2020	RTA
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<b>W.P. CLARK AND SON</b> Builder:		Structure Desc: <b>CUSTOM</b>	
<b>A-5</b>		<b>3/16"=1'-0"</b>	
		<b>FRONT ELEVATION</b>	



REAR ELEVATION

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Structure Desc: **CUSTOM**

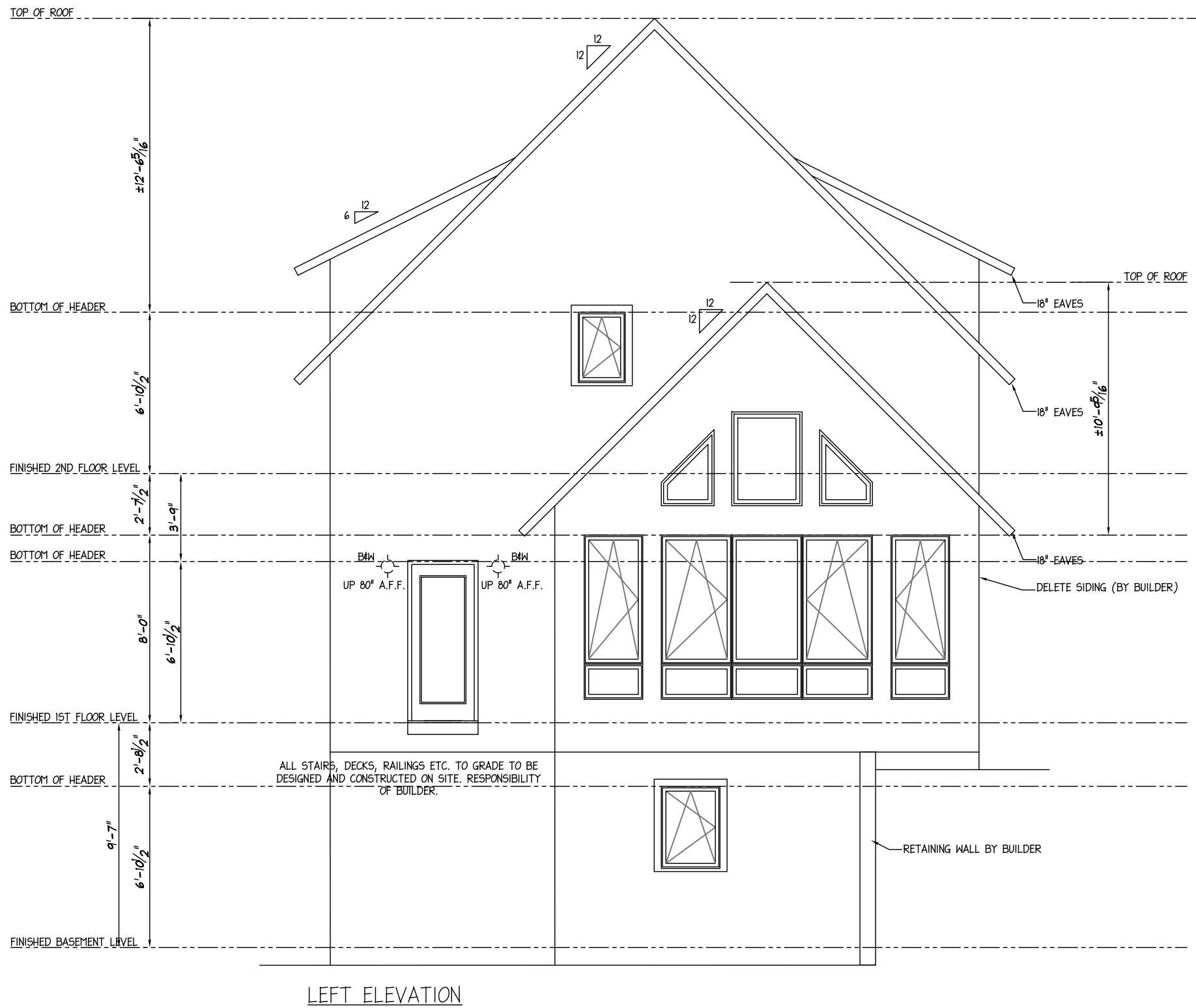
**REAR ELEVATION**

Builder: **3/16"=1'-0"**

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

Drawn:	3/11/2020	RTA
Revisions		
	4/28/2020	RTA
	5/26/2020	RTA
	6/12/2020	RTA
	6/26/2020	RTA
	7/2/2020	RTA
	8/3/2020	RTA
	9/2/2020	RTA

**11387**  
 Revision: **GG**  
 Sheet: **A-6**



LEFT ELEVATION

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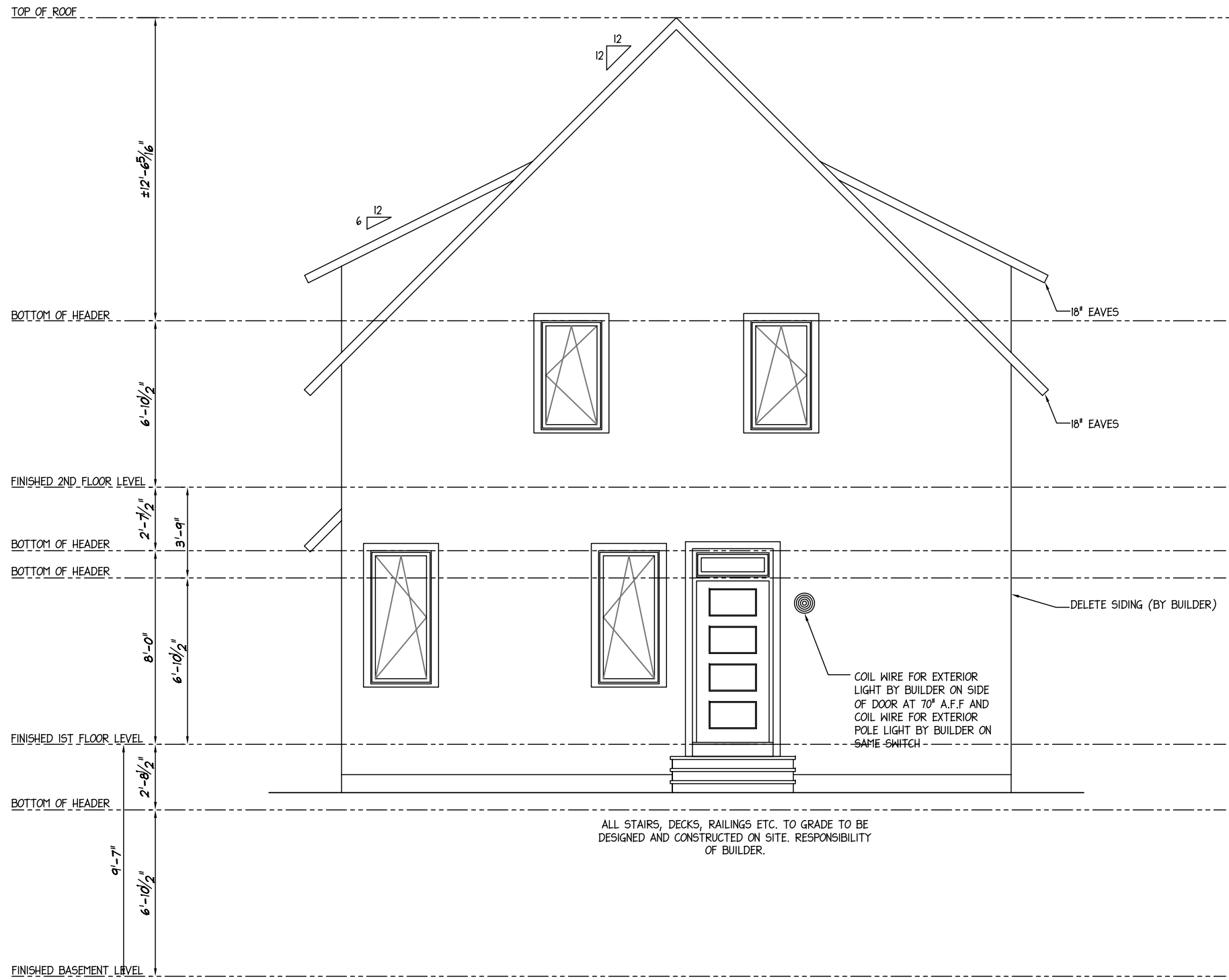
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 Builder:  
 Structure Desc: **CUSTOM**

Scale: **3/16"=1'-0"**  
**LEFT ELEVATION**

<b>11387</b>	Drawn:	3/11/2020	RTA
	Revisions		
Revision:		4/28/2020	RTA
	<b>GG</b>	5/26/2020	RTA
Sheet:		6/12/2020	RTA
	<b>A-7</b>	6/26/2020	RTA
		7/2/2020	RTA
		8/3/2020	RTA
		9/2/2020	RTA





RIGHT ELEVATION

<b>11387</b>	Drawn:	3/11/2020	RTA
	Revisions		
Revision:		4/28/2020	RTA
		5/26/2020	RTA
Sheet:		6/12/2020	RTA
		6/26/2020	RTA
		7/2/2020	RTA
		8/3/2020	RTA
		9/2/2020	RTA

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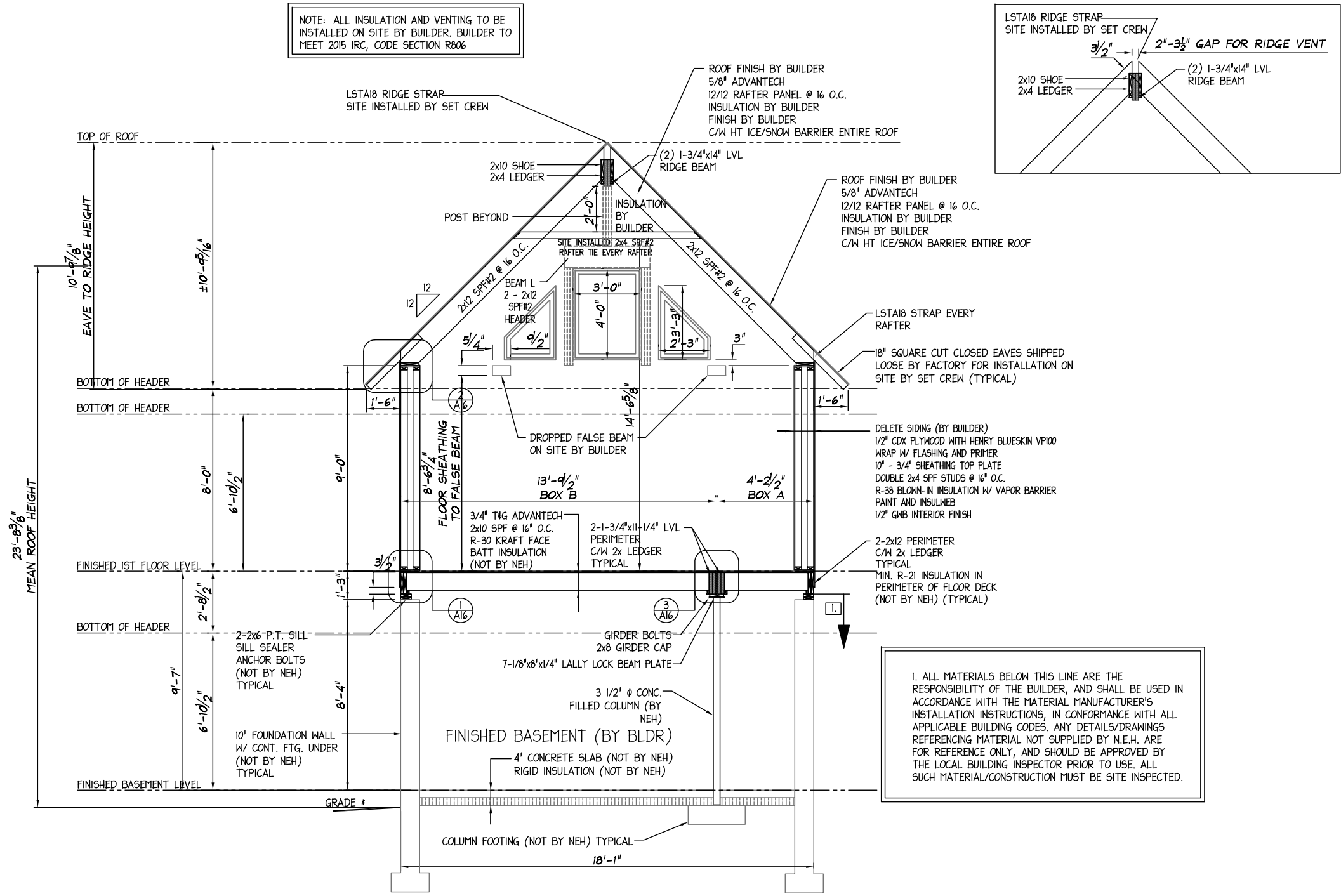
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 Builder:  
 Structure Desc: **CUSTOM**  
 Scale: **3/16"=1'-0"**

**RIGHT ELEVATION**

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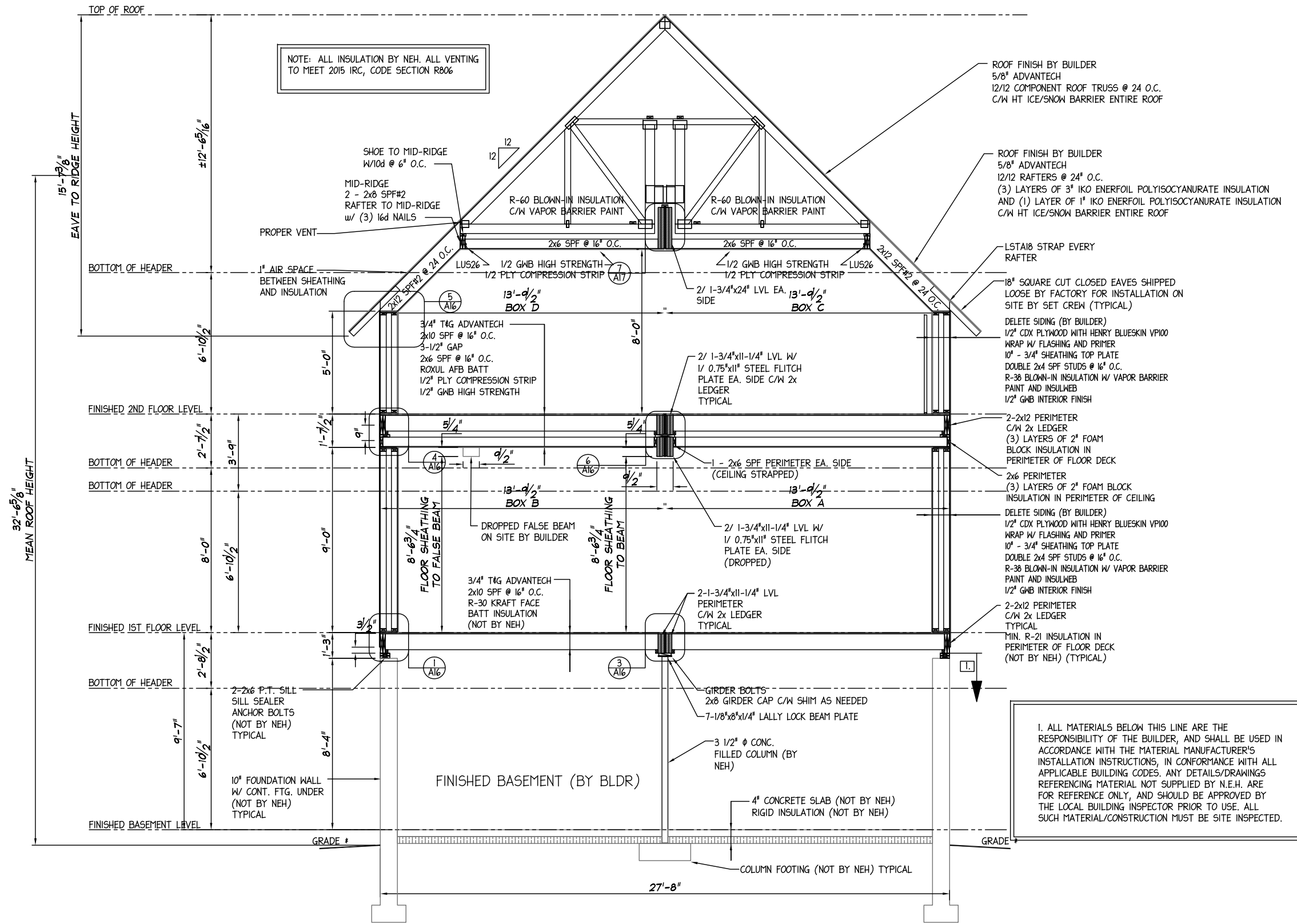
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 Builder  
 Structure Desc: CUSTOM  
 Scale: 3/16"=1'-0"  
**CROSS SECTION**

Drawn:	3/11/2020	RTA
Revisions:		
Revision:	4/28/2020	RTA
	5/26/2020	RTA
	6/12/2020	RTA
	6/26/2020	RTA
	7/2/2020	RTA
	8/3/2020	RTA
	9/2/2020	RTA
<b>11387</b>		
<b>GG</b>		
<b>A-9</b>		



NOTE: ALL INSULATION BY NEH. ALL VENTING TO MEET 2015 IRC, CODE SECTION R806

ROOF FINISH BY BUILDER  
5/8" ADVANTECH  
12/12 COMPONENT ROOF TRUSS @ 24" O.C.  
C/W HT ICE/SNOW BARRIER ENTIRE ROOF

ROOF FINISH BY BUILDER  
5/8" ADVANTECH  
12/12 RAFTERS @ 24" O.C.  
(3) LAYERS OF 3" IKO ENERFOIL POLYISOCYANURATE INSULATION  
AND (1) LAYER OF 1" IKO ENERFOIL POLYISOCYANURATE INSULATION  
C/W HT ICE/SNOW BARRIER ENTIRE ROOF

L5TA18 STRAP EVERY RAFTER

18" SQUARE CUT CLOSED EAVES SHIPPED LOOSE BY FACTORY FOR INSTALLATION ON SITE BY SET CREW (TYPICAL)

DELETE SIDING (BY BUILDER)  
1/2" CDX PLYWOOD WITH HENRY BLUESKIN VPI00 WRAP W/ FLASHING AND PRIMER  
10" - 3/4" SHEATHING TOP PLATE  
DOUBLE 2x4 SPF STUDS @ 16" O.C.  
R-38 BLOWN-IN INSULATION W/ VAPOR BARRIER PAINT AND INSULWEB  
1/2" GMB INTERIOR FINISH

2-2x12 PERIMETER C/W 2x LEDGER  
(3) LAYERS OF 2" FOAM BLOCK INSULATION IN PERIMETER OF FLOOR DECK

2x6 PERIMETER (3) LAYERS OF 2" FOAM BLOCK INSULATION IN PERIMETER OF CEILING

DELETE SIDING (BY BUILDER)  
1/2" CDX PLYWOOD WITH HENRY BLUESKIN VPI00 WRAP W/ FLASHING AND PRIMER  
10" - 3/4" SHEATHING TOP PLATE  
DOUBLE 2x4 SPF STUDS @ 16" O.C.  
R-38 BLOWN-IN INSULATION W/ VAPOR BARRIER PAINT AND INSULWEB  
1/2" GMB INTERIOR FINISH

2-2x12 PERIMETER C/W 2x LEDGER TYPICAL  
MIN. R-21 INSULATION IN PERIMETER OF FLOOR DECK (NOT BY NEH) (TYPICAL)

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**PRODUCTION DRAWINGS**

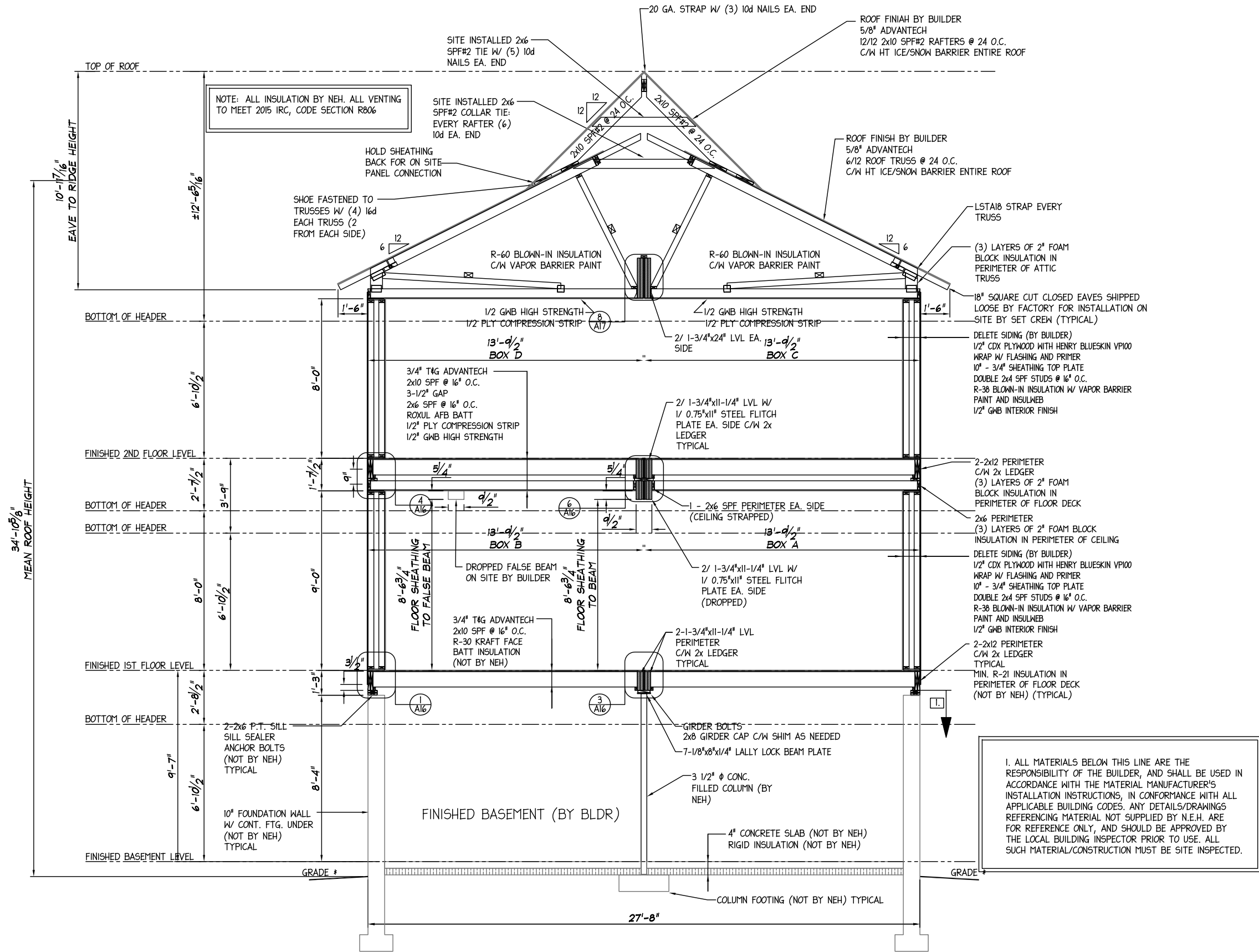
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Scale: 3/16"=1'-0"  
**CROSS SECTION**

Drawn:	3/11/2020	RTA
Revisions:		
Revision:	4/28/2020	RTA
	5/26/2020	RTA
	6/12/2020	RTA
Builder:	6/26/2020	RTA
	7/2/2020	RTA
	8/3/2020	RTA
	9/2/2020	RTA
<b>11387</b>		
<b>GG</b>		
<b>A-10</b>		



**PRODUCTION DRAWINGS**

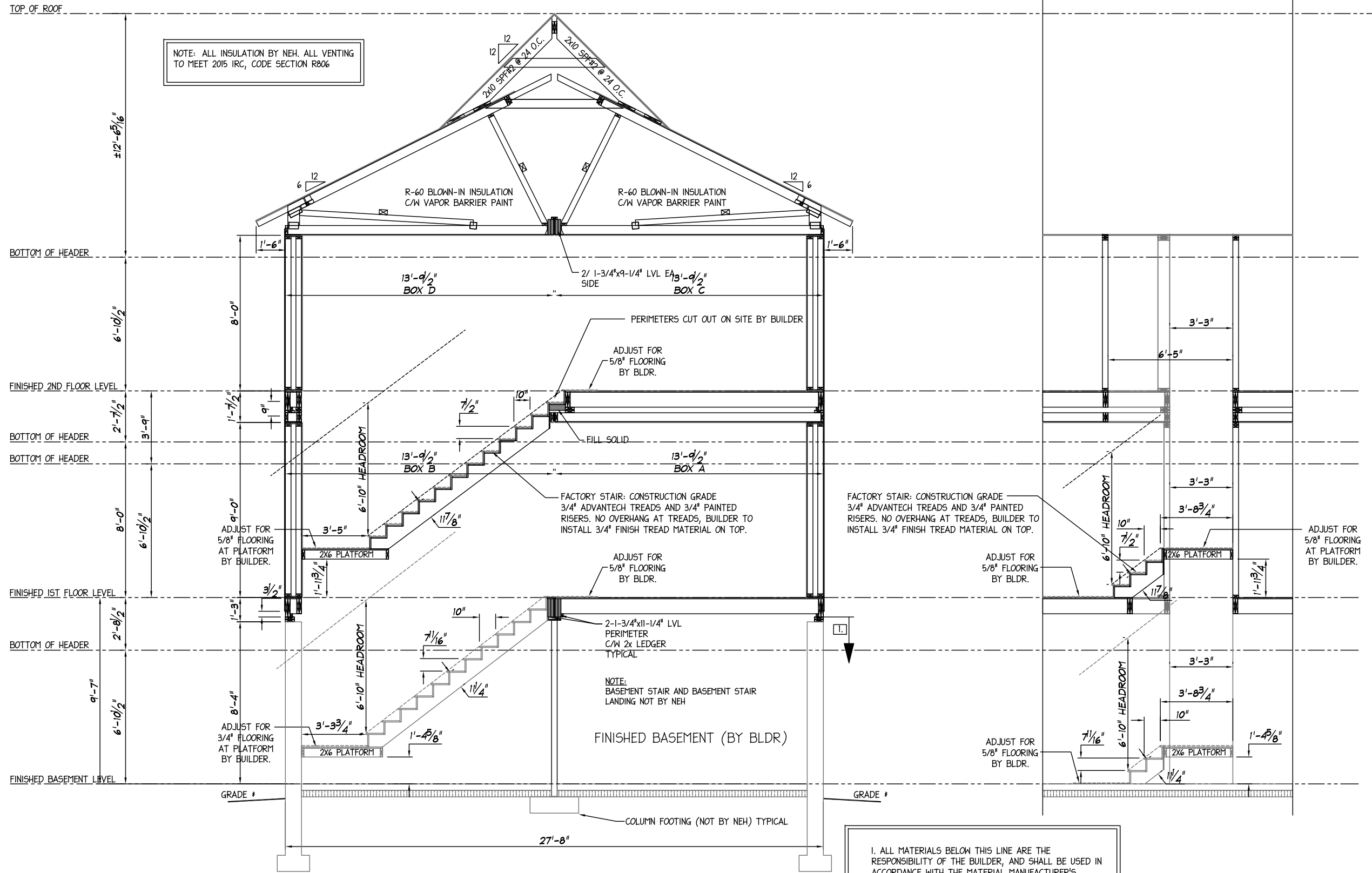
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 Scale: **3/16"=1'-0"**  
**CROSS SECTION**

Drawn:	3/11/2020	RTA
Revisions:		
Revision:	4/28/2020	RTA
Revision:	5/26/2020	RTA
Revision:	6/12/2020	RTA
Revision:	6/26/2020	RTA
Revision:	7/2/2020	RTA
Revision:	8/3/2020	RTA
Revision:	9/2/2020	RTA
Sheet:	<b>A-11</b>	



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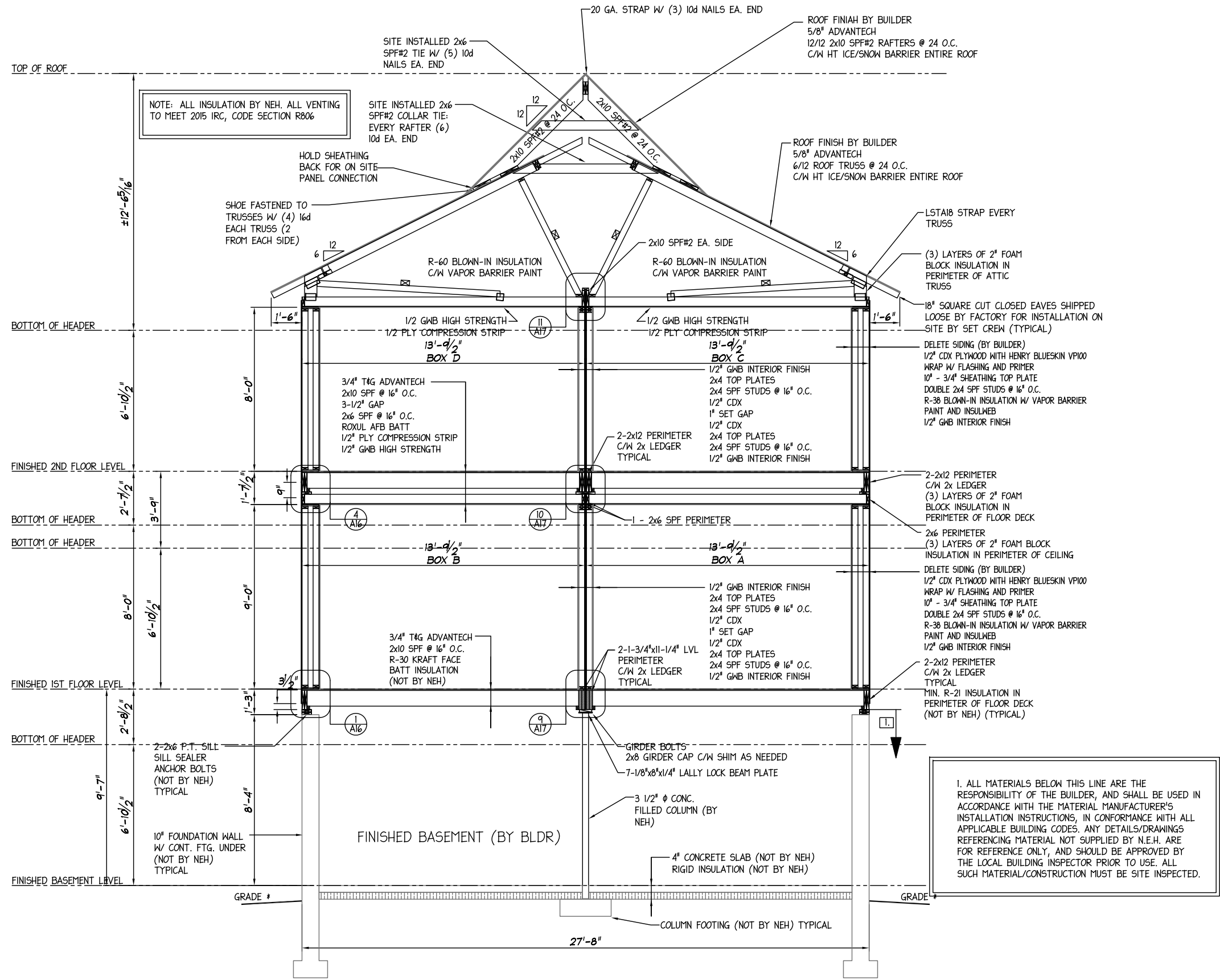
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 Structure Desc: CUSTOM

**CROSS SECTION**

11387	Drawn:	3/11/2020	RTA
	Revisions:	4/28/2020	RTA
GG	Revision:	5/26/2020	RTA
		6/12/2020	RTA
A-12	Sheet:	6/26/2020	RTA
		7/2/2020	RTA
		8/3/2020	RTA
		9/2/2020	RTA

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



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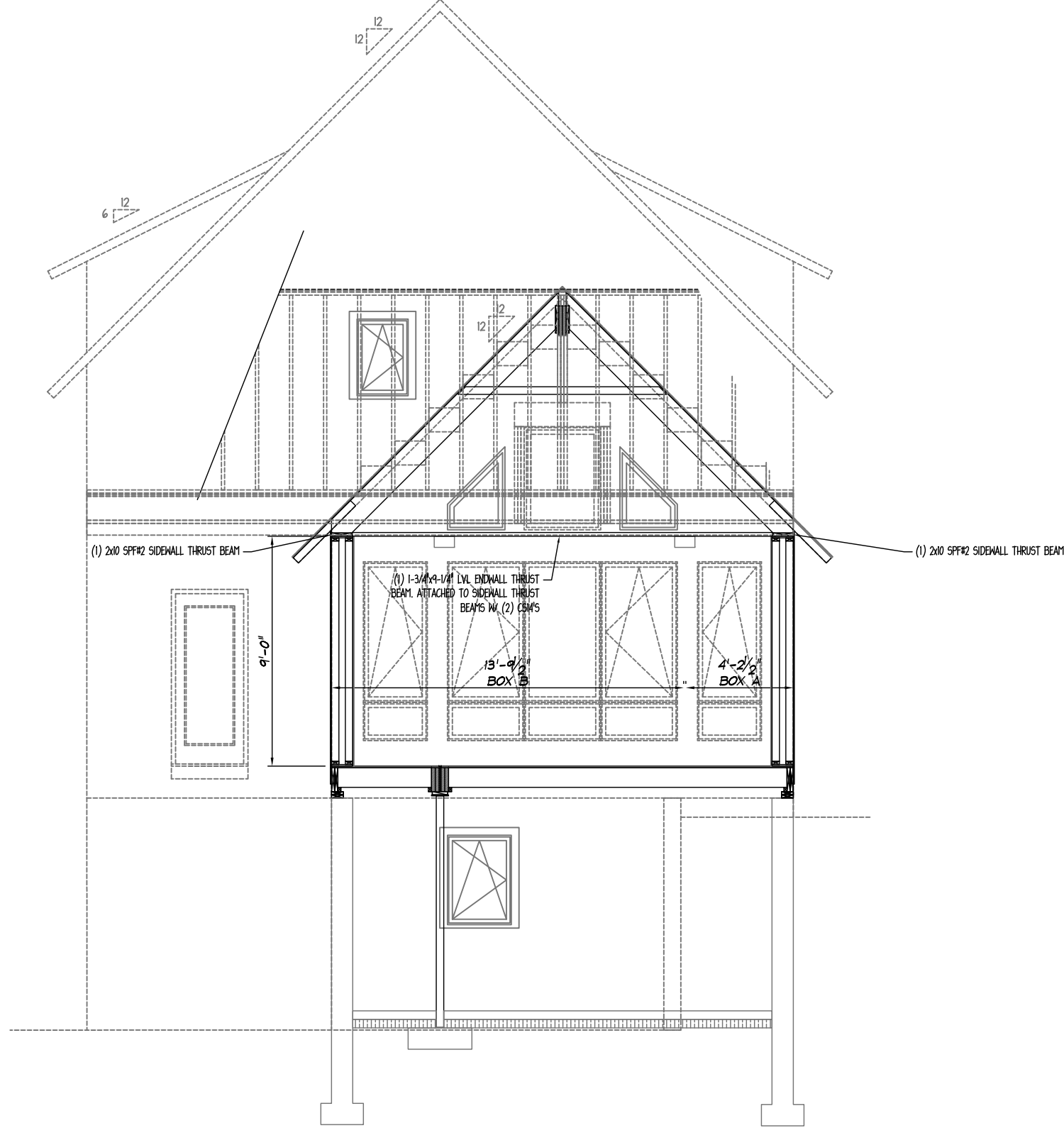
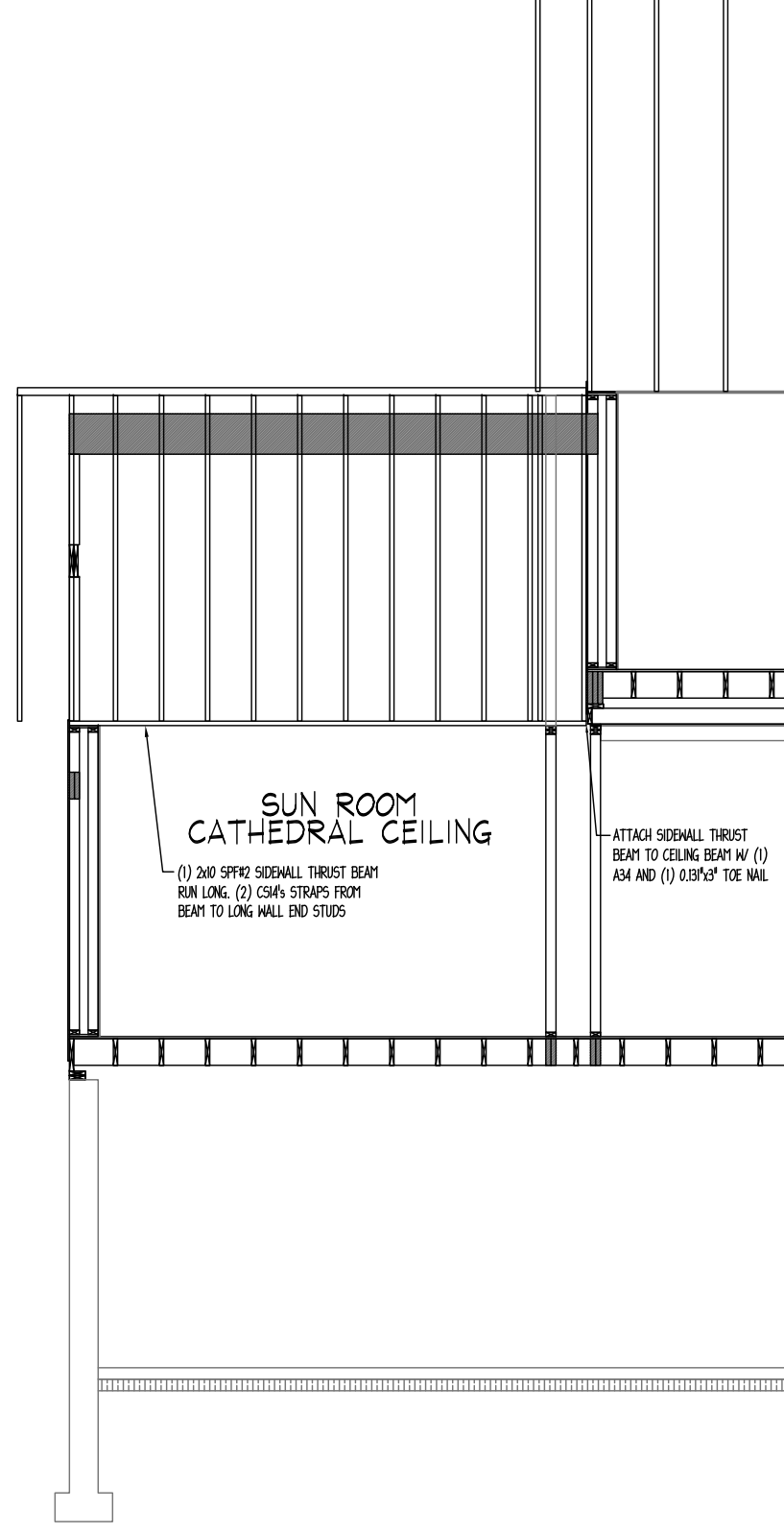
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Structure Desc: CUSTOM

3/16"-1'-0"

**CROSS SECTION**

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3/11/2020	
Revisions	
4/28/2020	RTA
5/26/2020	RTA
6/12/2020	RTA
6/26/2020	RTA
7/2/2020	RTA
8/3/2020	RTA
9/2/2020	RTA
Sheet:	<b>A-13</b>



<b>11387</b>	Drawn:	3/11/2020	RTA
	Revisions		
Revision:		4/28/2020	RTA
	<b>GG</b>	5/26/2020	RTA
Sheet:		6/12/2020	RTA
	<b>A-13B</b>	6/26/2020	RTA
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	8/3/2020	RTA	
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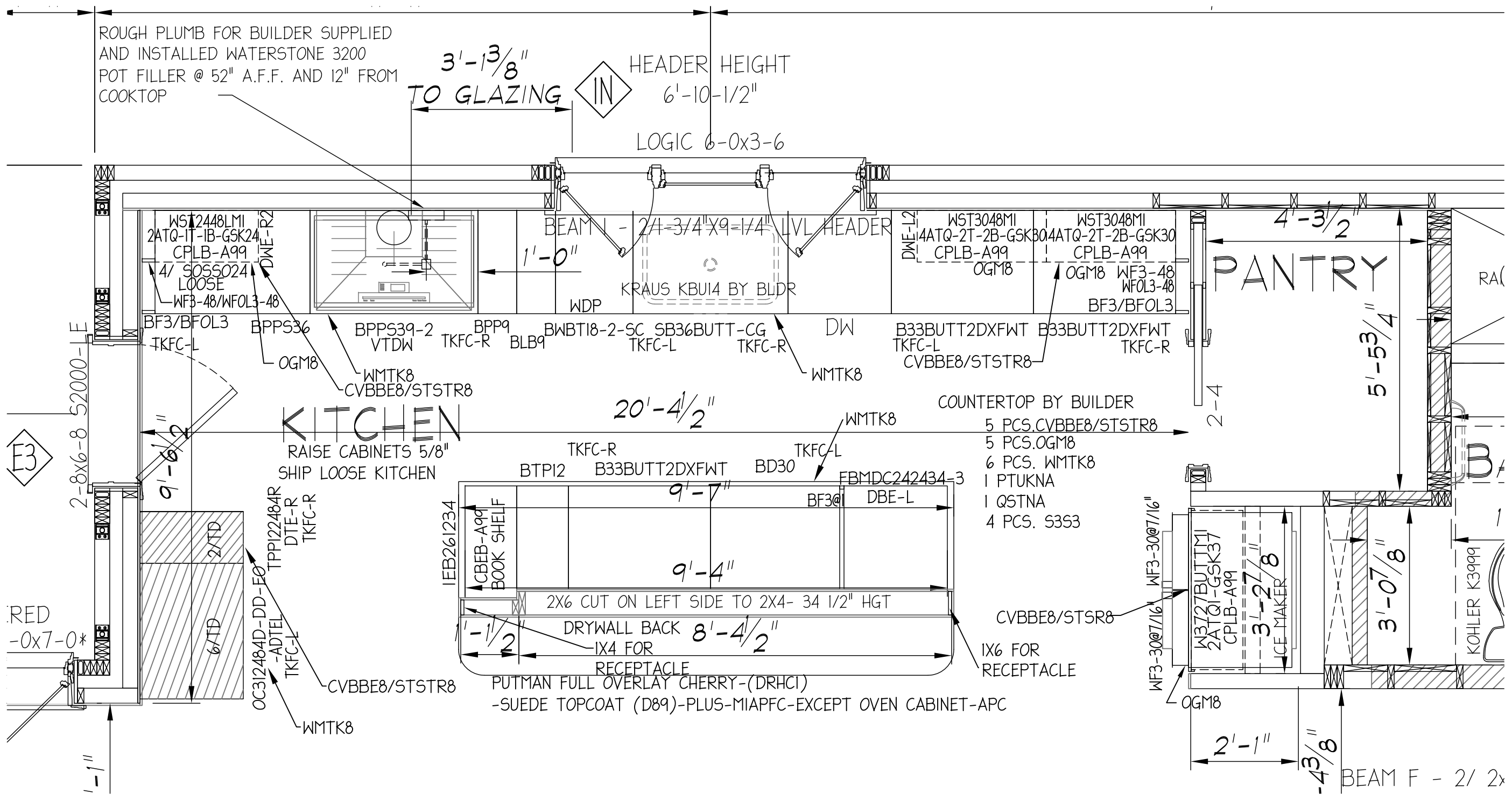
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 Structure Desc: **CUSTOM**  
 Scale: **3/16"=1'-0"**  
**CROSS SECTION**

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ROUGH PLUMB FOR BUILDER SUPPLIED AND INSTALLED WATERSTONE 3200 POT FILLER @ 52" A.F.F. AND 12" FROM COOKTOP

3'-13/8" TO GLAZING  
 6'-10-1/2" HEADER HEIGHT  
 LOGIC 6-0x3-6

- COUNTERTOP BY BUILDER
- 5 PCS. CVBBE8/STSTR8
  - 5 PCS. OGM8
  - 6 PCS. WMTK8
  - 1 PTUKNA
  - 1 QSTNA
  - 4 PCS. S353

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

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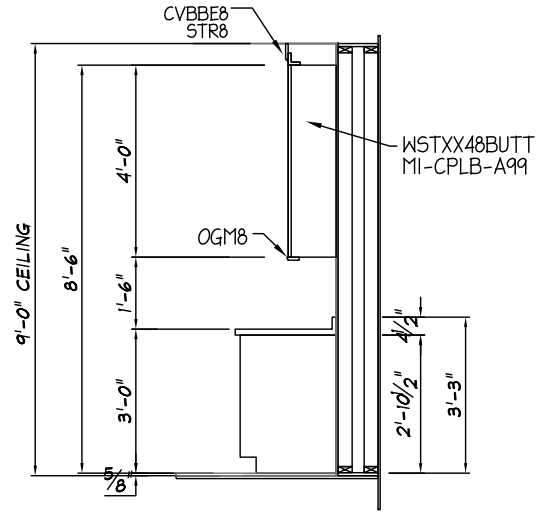
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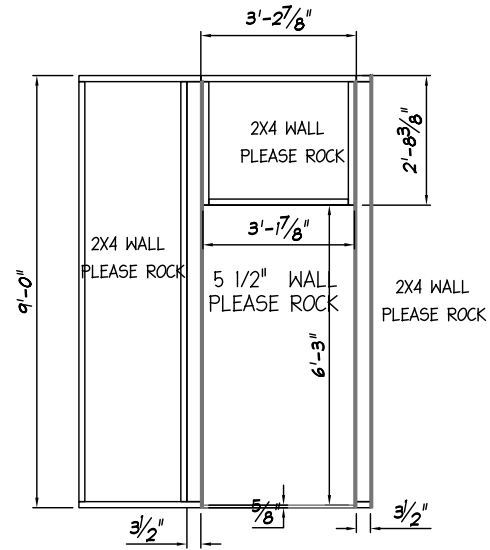
**KITCHEN DETAILS**  
 AS NOTED

Drawn:	3/11/2020	RTA
Revisions:		
4/28/2020	RTA	
5/26/2020	RTA	
6/12/2020	RTA	
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7/2/2020	RTA	
8/3/2020	RTA	
9/2/2020	RTA	
11387	GG	A-14

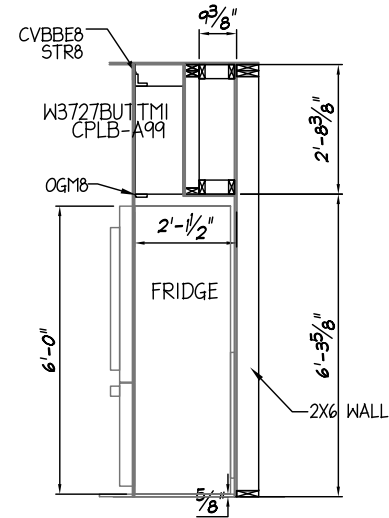




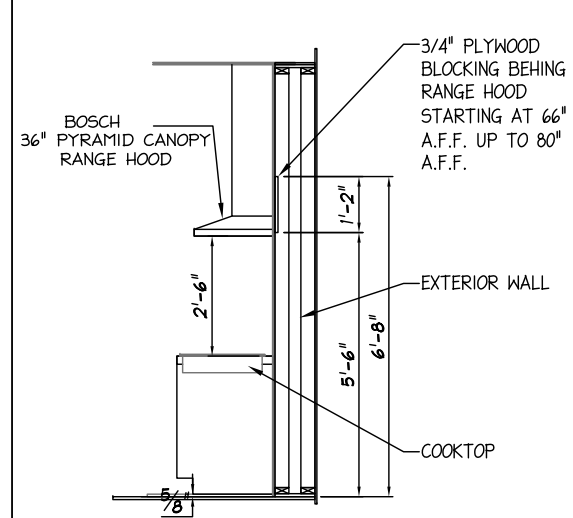
KITCHEN CABINET SECTION



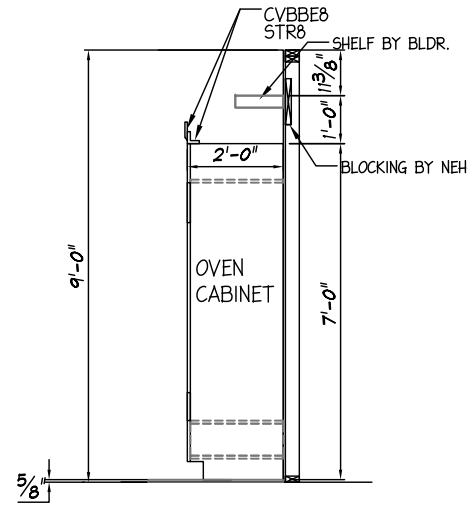
WALL BEHIND FRIDGE



FRIDGE SECTION



COOKTOP & RANGE HOOD



OVEN CABINET SECTION

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

**PRODUCTION DRAWINGS**

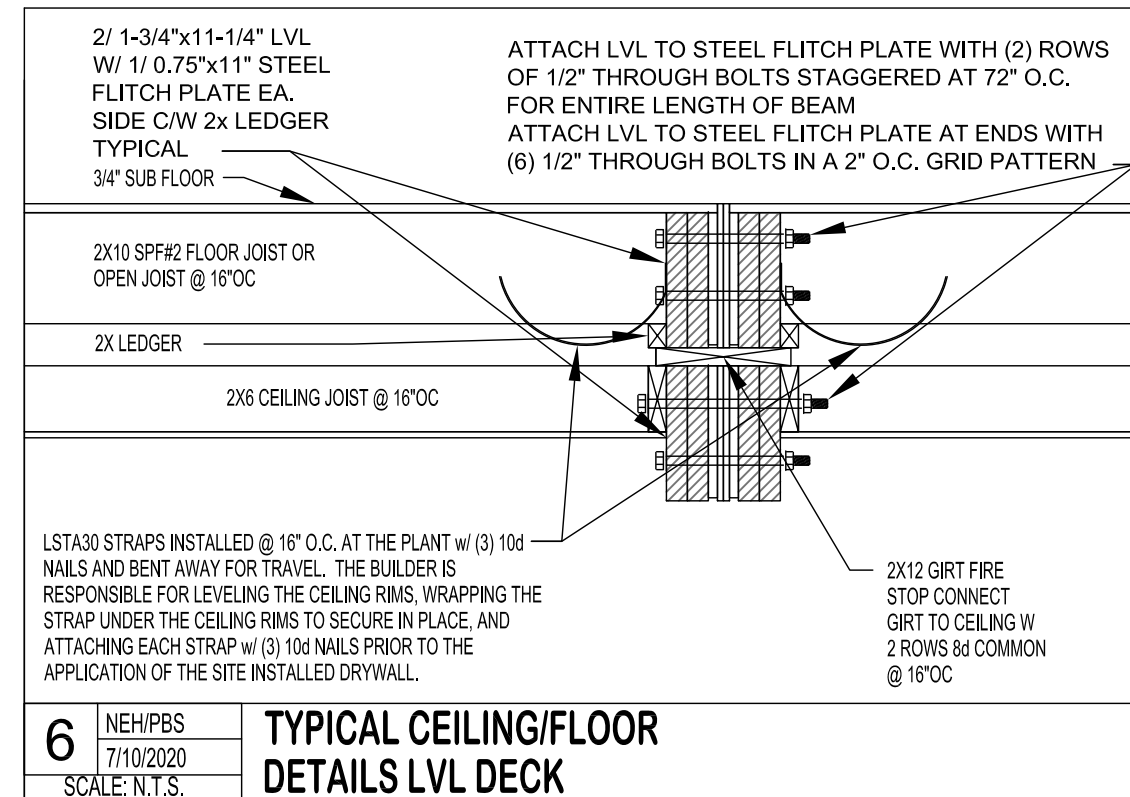
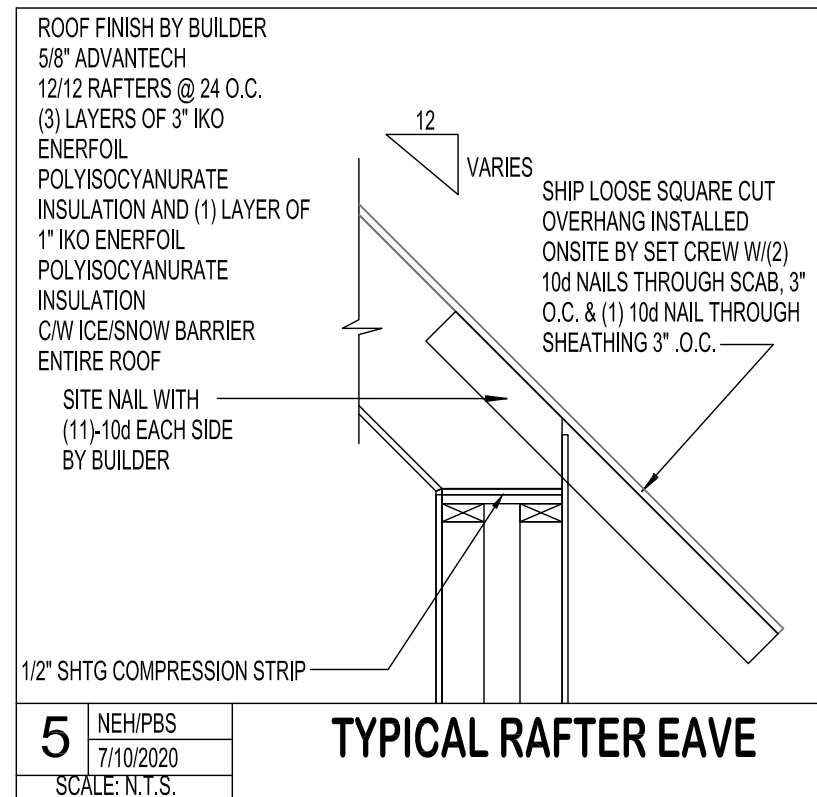
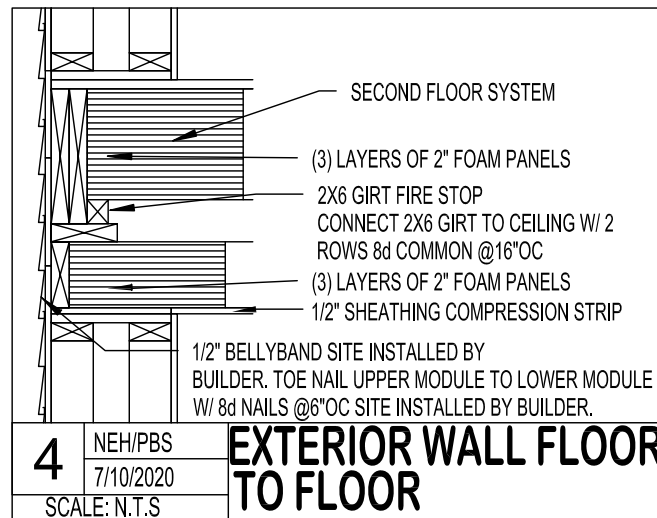
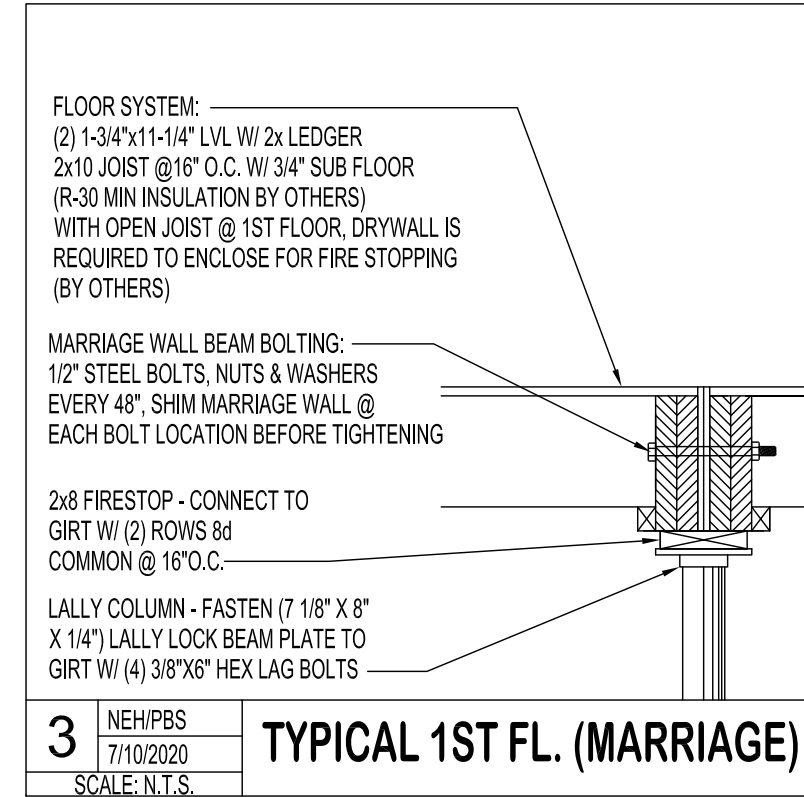
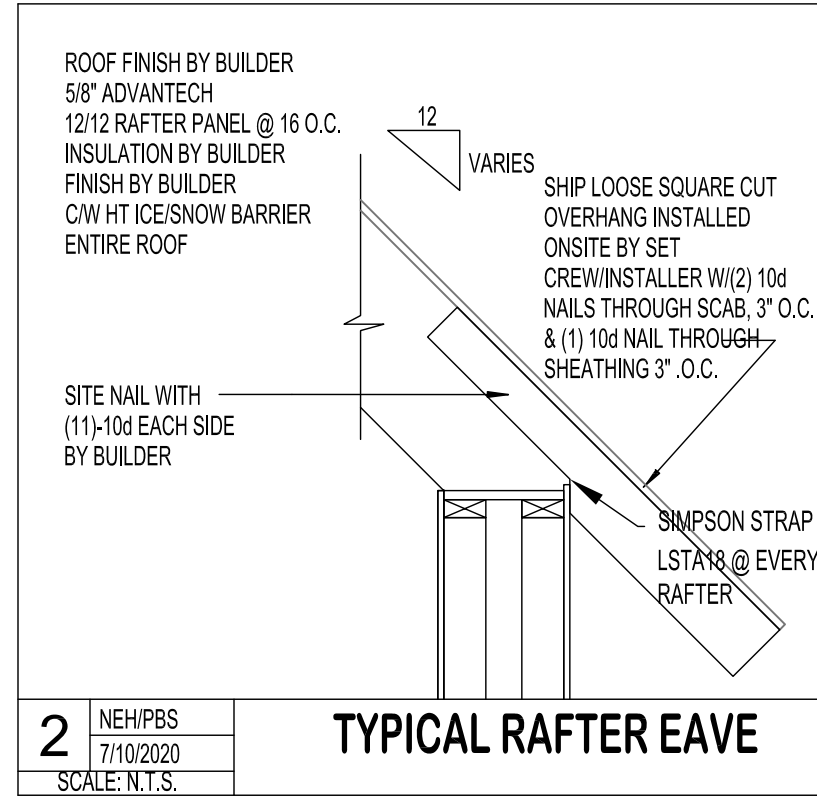
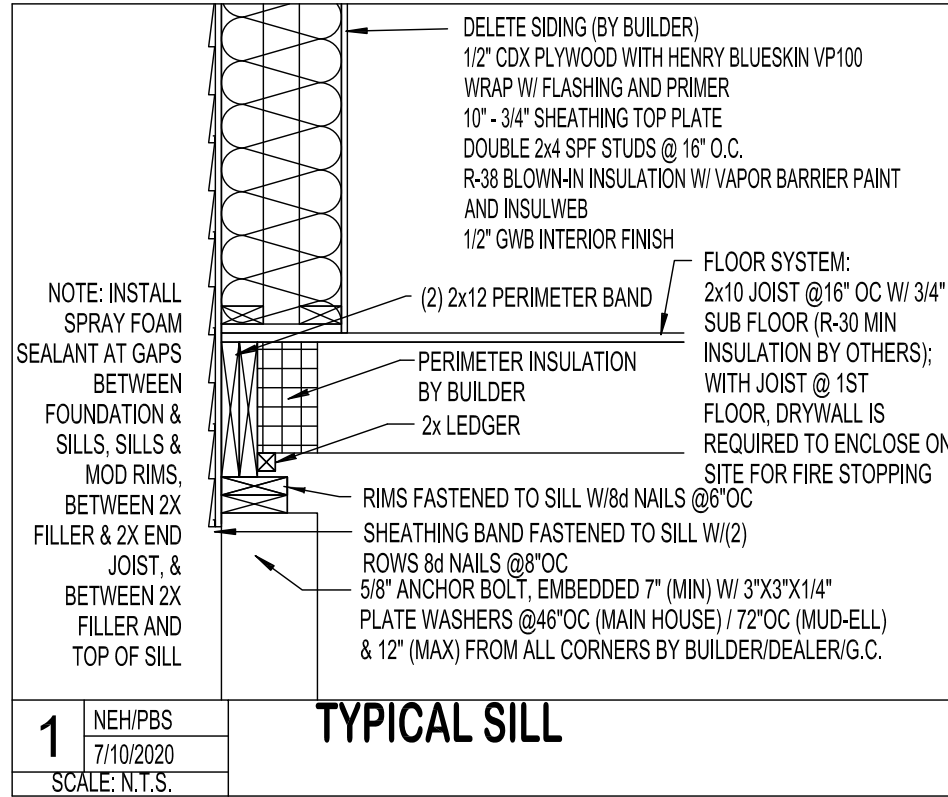
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Structure Desc: **CUSTOM**  
**AS NOTED**  
**KITCHEN DETAILS**

Drawn:	3/11/2020	RTA
Revisions		
4/28/2020	RTA	
5/26/2020	RTA	
6/12/2020	RTA	
6/26/2020	RTA	
7/2/2020	RTA	
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9/2/2020	RTA	
11387	GG	A-15



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**W.P. CLARK AND SON**

Structure Desc: CUSTOM

**DETAILS**

N.T.S.

Drawn: 3/11/2020 RTA

Revisions: 4/28/2020 RTA

5/26/2020 RTA

6/12/2020 RTA

6/26/2020 RTA

7/2/2020 RTA

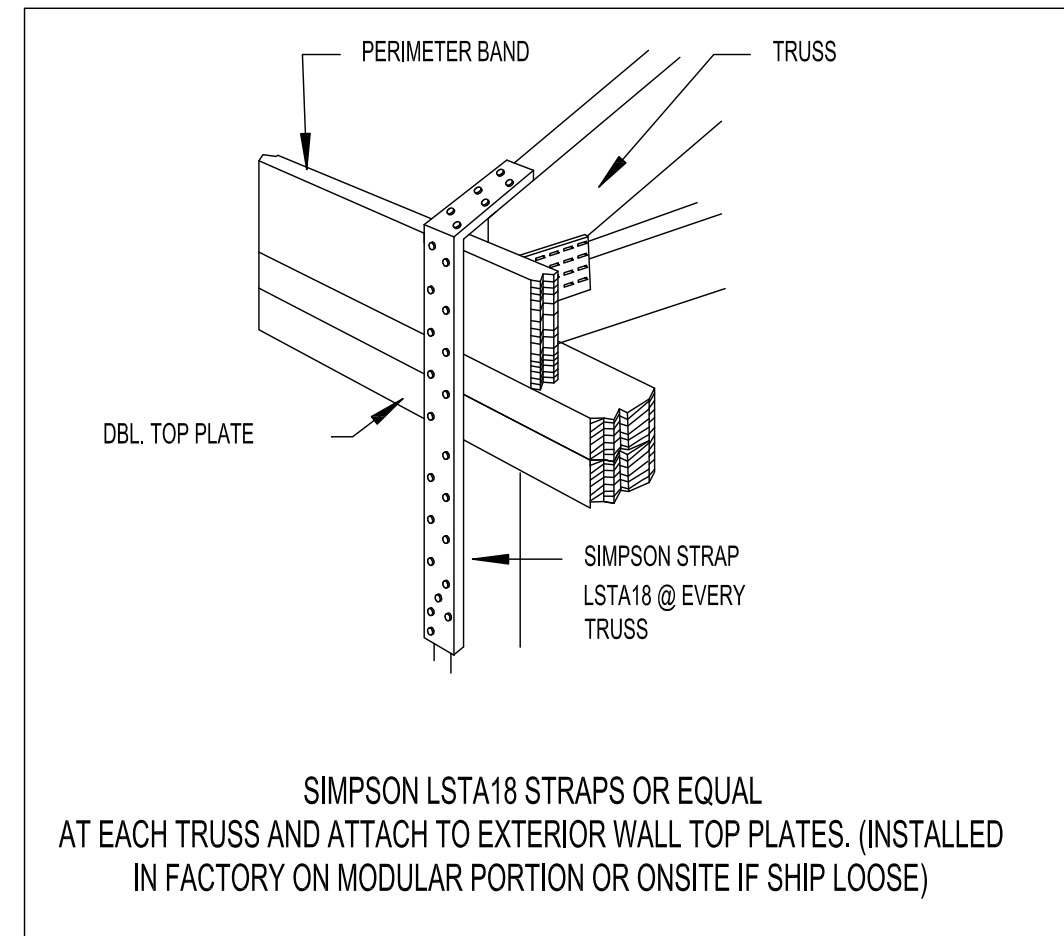
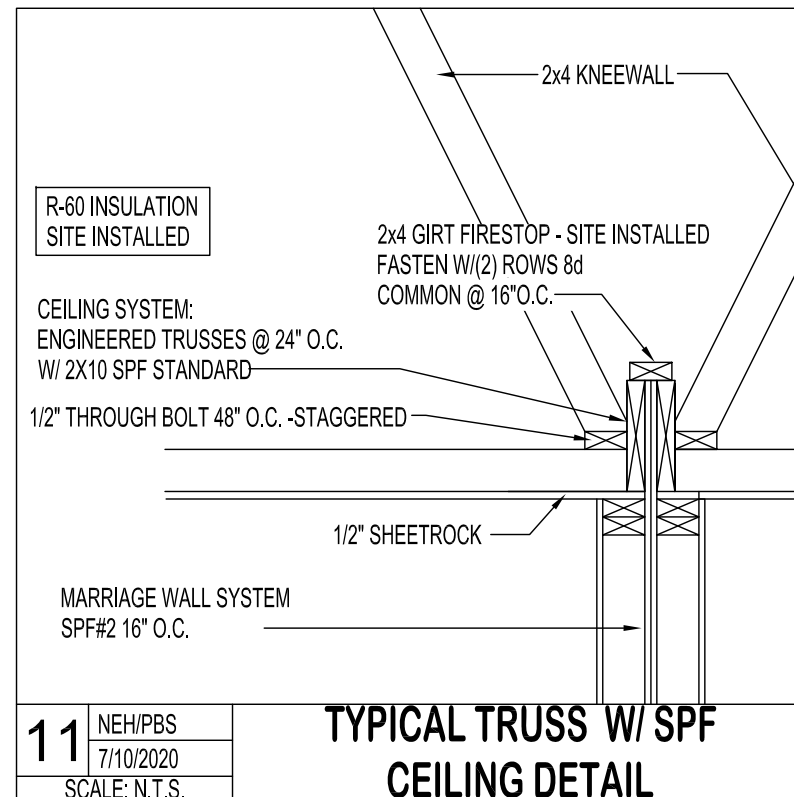
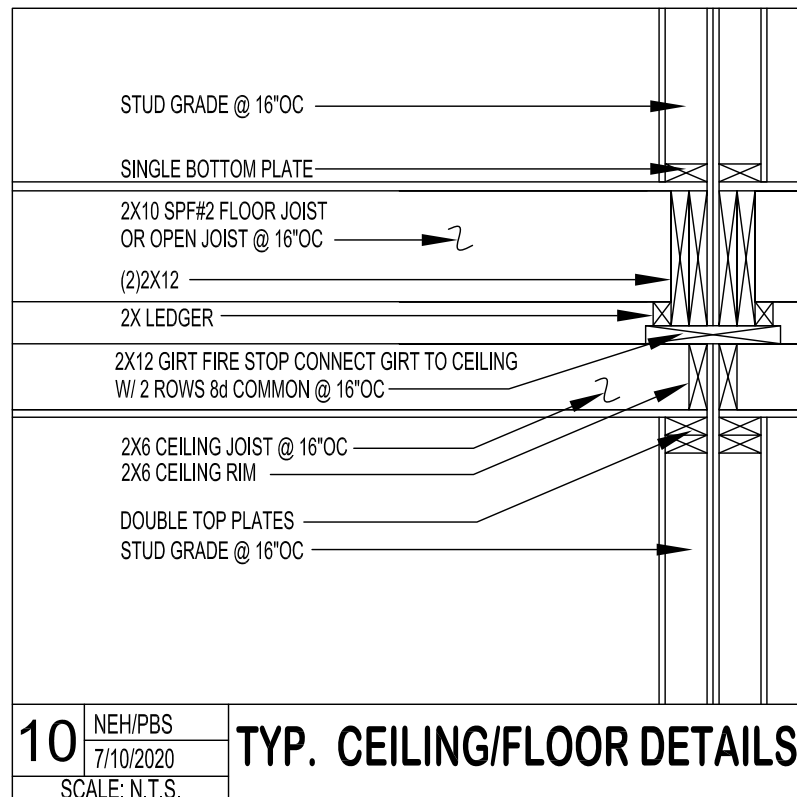
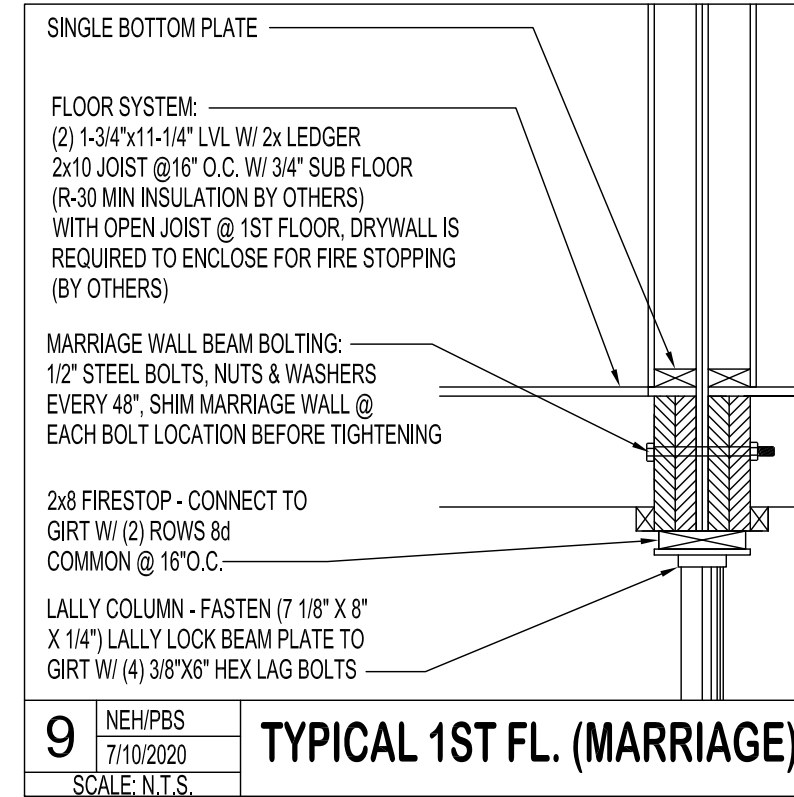
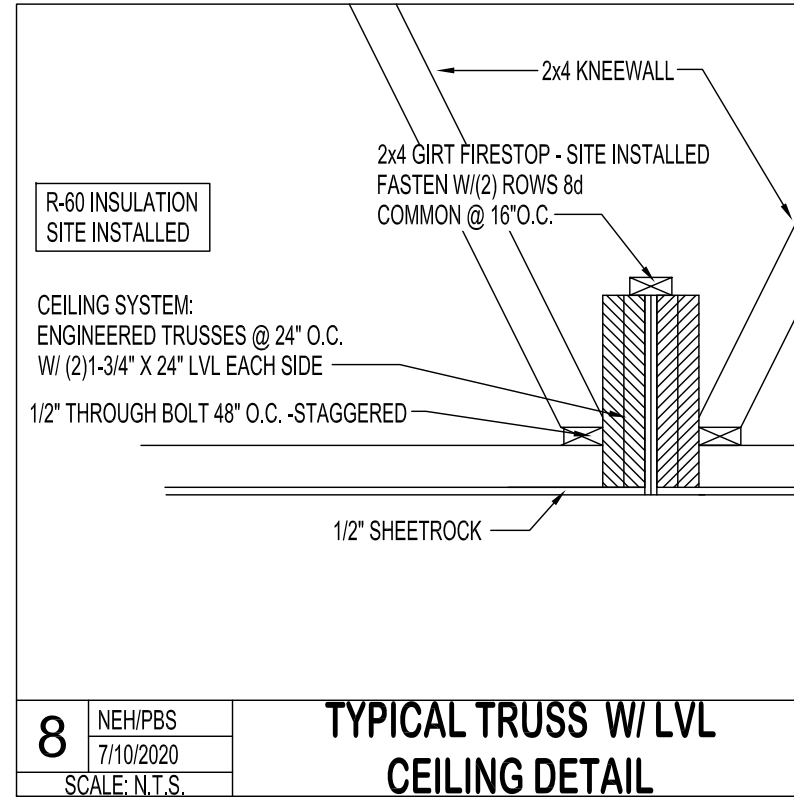
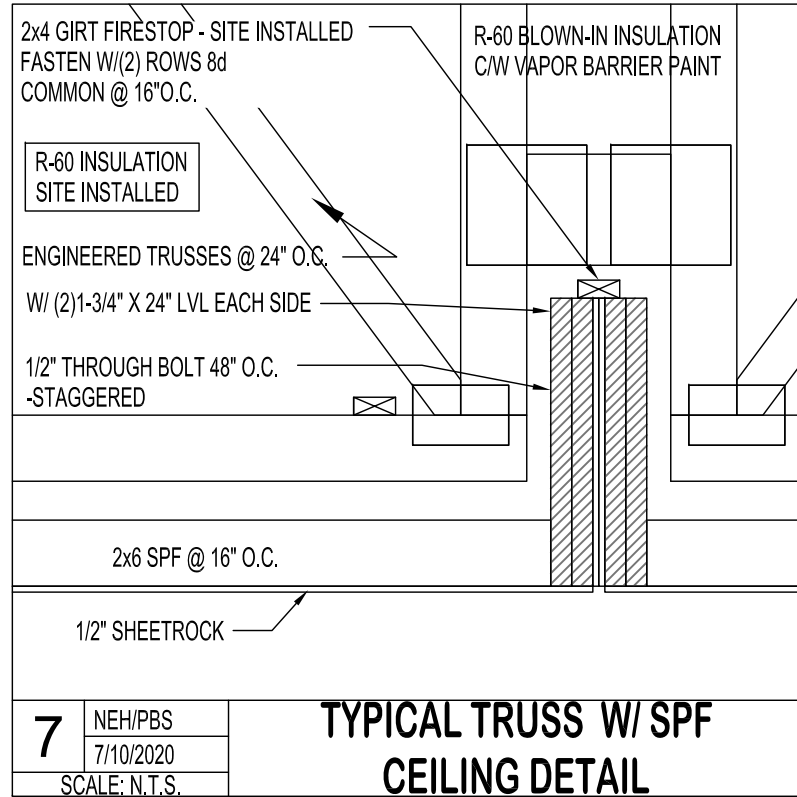
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Sheet: **A-16**



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**W.P. CLARK AND SON**  
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 Structure Desc: CUSTOM  
 Scale: N.T.S.

**DETAILS**

Drawn:	3/11/2020	RTA
Revisions:	4/28/2020	RTA
	5/26/2020	RTA
	6/12/2020	RTA
	6/26/2020	RTA
	7/2/2020	RTA
	8/3/2020	RTA
	9/2/2020	RTA

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 Revision: **GG**  
 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
<b>Roof</b>			
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 <sup>1</sup>
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

<b>Wall</b>			
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 <sub>2</sub> with seismic braced wall line spacing < 25'	8-16d common (3 1/2" x 0.162"); or 12-16d box (3 1/2" x 0.135"); or 12-10d box (3" x 0.128"); or 12-3" x 0.131" nails	Face nail on each side of end joint  (minimum 24" lap splice length each side of end joint)
		Double top plate splice SDCs D <sub>0</sub> , D <sub>1</sub> , or D <sub>2</sub> ; and braced wall line spacing ≥ 25'	12-16d (3 1/2" x 0.135")

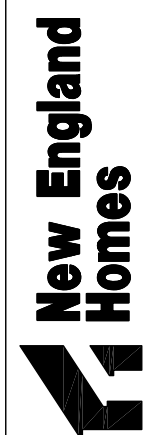
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**N.T.S.**  
Scale: \_\_\_\_\_

**DETAILS**

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	7/2/2020	RTA
	8/3/2020	RTA
	9/2/2020	RTA

**11387**

Revision: **GG**

Sheet: **A-18**

TABLE R602.3(1)-continued FASTENING SCHEDULE

ITEM	DESCRIPTION OF BUILDING ELEMENTS	NUMBER AND TYPE OF FASTENER <sup>a,b,c</sup>	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	12" o.c. face nail
		3" x 0.131" nails	
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	Toe nail
		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	
17	Top plates, laps at corners and intersections	3-10d box (3" x 0.128"); or	Face nail
		2-16d common (3 1/2" x 0.162"); or	
		3-3" x 0.131" nails	
18	1" brace to each stud and plate	3-8d box (2 1/2" x 0.113"); or	Face nail
		2-8d common (2 1/2" x 0.131"); or	
19	1" x 6" sheathing to each bearing	2-8d common (2 1/2" x 0.131"); or	Face nail
		2-10d box (3" x 0.128"); or	
		2 staples, 1" crown, 16 ga., 1 3/4" long	
20	1" x 8" and wider sheathing to each bearing	3-8d box (2 1/2" x 0.113"); or	Face nail
		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	
		Wider than 1" x 8"	
21	Joist to sill, top plate or girder	4-8d box (2 1/2" x 0.113"); or	Toe nail
		3-8d common (2 1/2" x 0.131"); or	
		3-10d box (3" x 0.128"); or	
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	6" o.c. toe nail
		10d box (3" x 0.128"); or	
23	1" x 6" subfloor or less to each joist	3-8d box (2 1/2" x 0.113"); or	Face nail
		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	

ITEM	DESCRIPTION OF BUILDING ELEMENTS	NUMBER AND TYPE OF FASTENER <sup>a,b,c</sup>	SPACING AND LOCATION	
<b>Floor</b>				
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"); or 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	24" o.c. face nail at top and bottom staggered on opposite sides	
		3" x 0.131" nails	Face nail at ends and at each splice	
28	Ledger strip supporting joists or rafters	4-16d box (3 1/2" x 0.135"); or	At each joist or rafter, face nail	
		3-16d common (3 1/2" x 0.162"); or 4-10d box (3" x 0.128"); or 4-3" 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 <sup>a,b,c</sup>	SPACING OF FASTENERS	
			Edges (inches) <sup>h</sup>	Intermediate supports <sup>e</sup> (inches)
<b>Wood structural panels, subfloor, roof and interior wall sheathing to framing and particleboard wall sheathing to framing</b>				
<b>[see Table R602.3(3) for wood structural panel exterior wall sheathing to wall framing]</b>				
30	3/8" - 1/2"	6d common (2" x 0.113") nail (subfloor, wall) 8d common (2 1/2" x 0.131") nail (roof)	6	12 <sup>i</sup>
31	1 1/32" - 1"	8d common nail (2 1/2" x 0.131")	6	12 <sup>i</sup>
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<sup>a, b, c</sup>

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 <sub>ult</sub> (mph)		
Size	Penetration (inches)				Edges (inches o.c.)	Field (inches o.c.)	Wind exposure category		
							B	C	D
6d Common (2.0" x 0.113")	1.5	24/0	3/8	16	6	12	140	115	110
8d Common (2.5" x 0.131")	1.75	24/16	7/16	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.

Other wall sheathing <sup>g</sup>				
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 <sup>d</sup>	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 <sup>d</sup>	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	3/8" - 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.

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Structure Desc: CUSTOM  
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**DETAILS**

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Revisions: RTA  
4/28/2020

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RTA  
6/26/2020

RTA  
7/2/2020

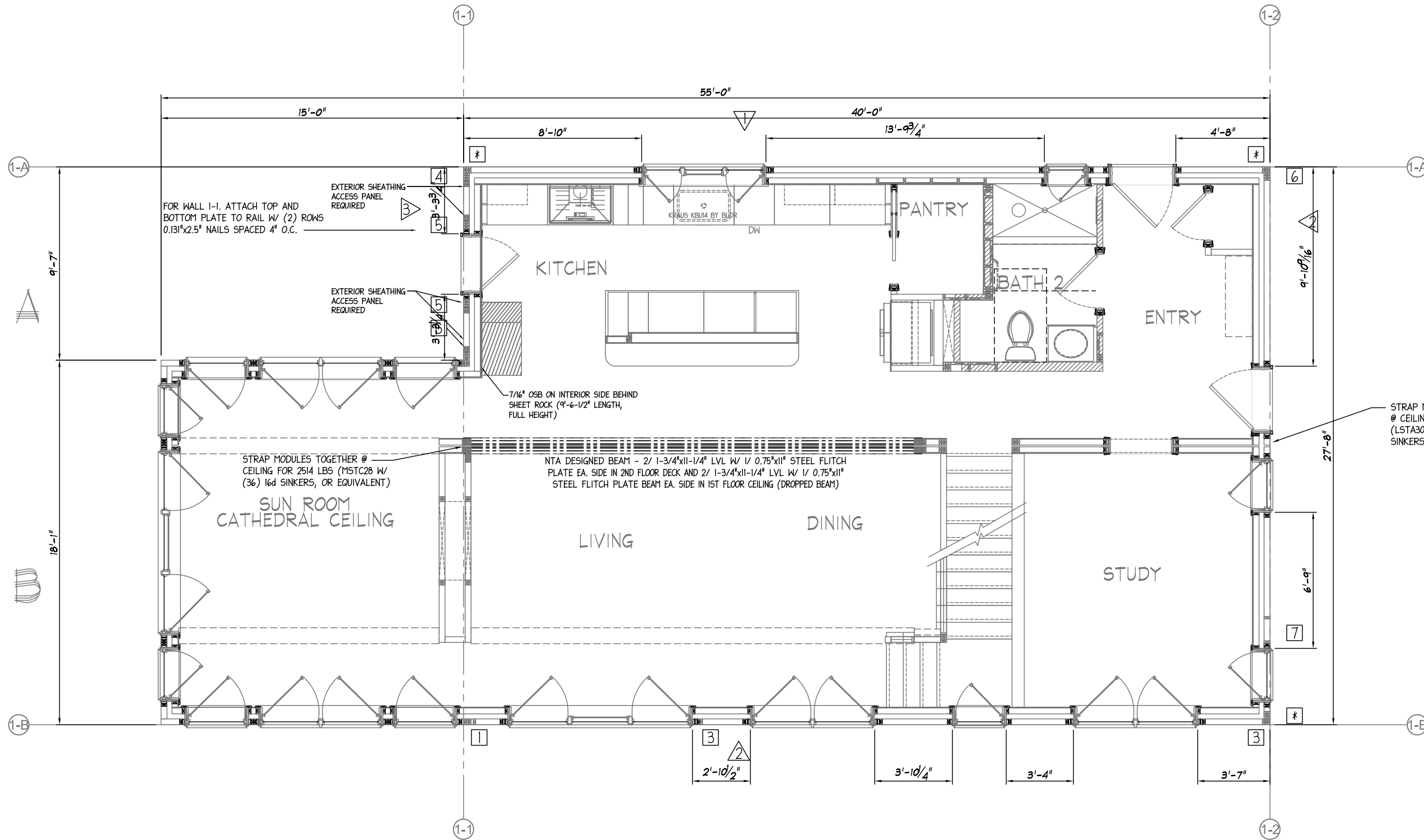
RTA  
8/3/2020

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9/2/2020

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Sheet: **A-19**



TAG	FORCE REQUIRED	RECOMMENDED HOLDOWN (1ST FLOOR TO FOUNDATION)
1	821 lbf	STHDI4RJ W/ (30) 16d SINKERS, OR EQUIVALENT
3	2,505 lbf	STHDI4RJ W/ (30) 16d SINKERS, OR EQUIVALENT
4	11,052 lbf	HDUI4-SD52.5 W/ 1" ANCHOR DIA., (36) 1/4" x 2-1/2" SDS, OR EQUIVALENT
5	10,231 lbf	HDUI4-SD52.5 W/ 1" ANCHOR DIA., (36) 1/4" x 2-1/2" SDS, OR EQUIVALENT
6	5,026 lbf	STHDI4RJ W/ (30) 16d SINKERS, OR EQUIVALENT
7	4,030 lbf	STHDI4RJ W/ (30) 16d SINKERS, OR EQUIVALENT

\* = IN LIEU OF HOLDOWN, FASTEN SIDEWALL TO ENDWALL WITH 0.131x3" NAILS @ 6" O.C. FOR THE HEIGHT OF THE WALL

EDGE FASTENING	
1	6" O.C.
2	4" O.C.
3	DOUBLE SIDED SHEATHING, 3" O.C.

NOTE: 7/16" STRUCTURAL SHEATHING W/ 0.131x2" NAILS U.N.O  
- FIELD FASTENING 12" O.C. TYPICAL

ATTACH UNBLOCKED ROOF AND FLOOR DIAPHRAGM W/ 0.131x2.5" NAILS @ 6" O.C. BOUNDARY, 6" O.C. EDGE AND 12" O.C. FIELD

1ST STORY RIM TO SILL  
LAPPED SHEATHING FASTENED WITH 0.131x3" NAILS, OR 0.131x4" TOE NAILS @ SPACING LISTED:  
WALL 1-A: 6" O.C. 116 plf  
WALL 1-B: 6" O.C. 85 plf  
WALL 1-1: 3" O.C. AND LTP4'S SPACED 6" O.C. 1459 plf  
WALL 1-2: 4" O.C. 316 plf  
\*\* SILL TO FOUNDATION ON SITE BY OTHERS FOR plf LISTED\*\*

NOTE: DIMENSIONS SHOWN ON SHEARWALL LINES ARE CONSIDERED SEGMENTS

NTA IS RESPONSIBLE FOR THE ENGINEERING DESIGN OF THE EXTERIOR SHEAR WALLS ONLY AND THE CLEAR SPAN BEAM IN THE LIVING/DINING/KITCHEN. ALL OTHER WALLS, BEAMS AND ENGINEERING ARE BY NEH. REFER TO DWG. A-21 AND A-22 FOR DETAILS

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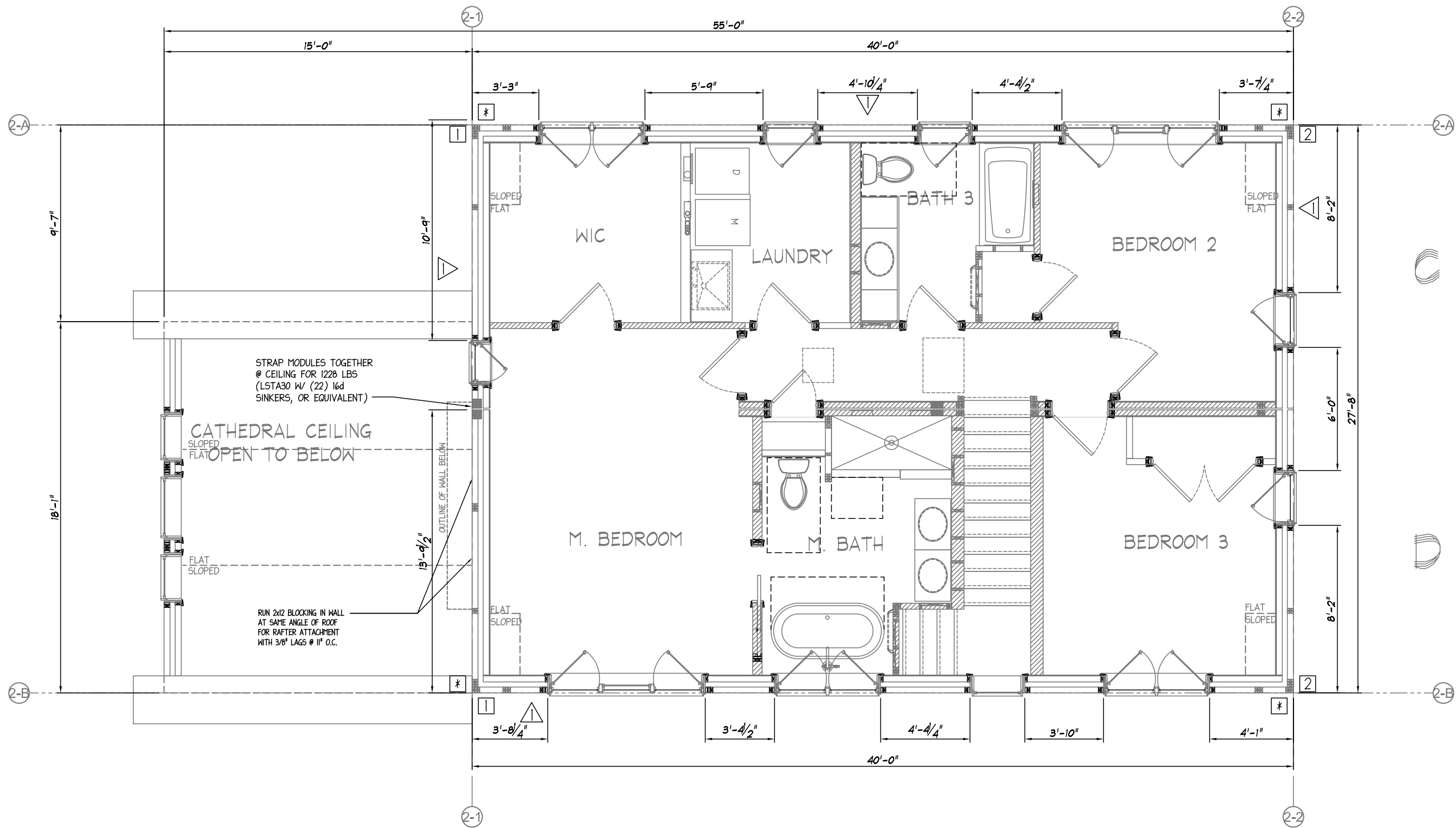
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**W.P. CLARK AND SON**  
Structure Desc: CUSTOM  
N.T.S.  
**BRACE WALL DETAILS**

Drawn:	3/11/2020	RTA
Revisions:	4/28/2020	RTA
	5/26/2020	RTA
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	7/2/2020	RTA
Scale:	8/3/2020	RTA
	9/2/2020	RTA

**11387**  
Revision: **GG**  
Sheet: **A-21**



TAG	FORCE REQUIRED	RECOMMENDED HOLDOWN (1ST FLOOR TO FOUNDATION)
1	821 lbf	MSTC 40 W/ (20) 16d SINKERS, OR EQUIVALENT
2	996 lbf	MSTC 40 W/ (20) 16d SINKERS, OR EQUIVALENT

EDGE FASTENING	
▽	6" O.C.
▽	4" O.C.

NOTE: 7/16" STRUCTURAL SHEATHING W/ 0.131"x2" NAILS U.N.O  
- FIELD FASTENING 12" O.C. TYPICAL

2ND STORY TO 1ST STORY  
LAPPED SHEATHING FASTENED WITH 0.131x3" NAILS, OR 0.131"x4" TOE NAILS @ SPACING LISTED:  
WALL 2-A: 6" O.C.  
WALL 2-B: 6" O.C.  
WALL 2-1: 6" O.C.  
WALL 2-2: 6" O.C.

NTA IS RESPONSIBLE FOR THE ENGINEERING DESIGN OF THE EXTERIOR SHEAR WALLS ONLY AND THE CLEAR SPAN BEAM IN THE LIVING/DINING/KITCHEN. ALL OTHER WALLS, BEAMS AND ENGINEERING ARE BY NEH. REFER TO DWG. A-21 AND A-22 FOR DETAILS

NOTE: DIMENSIONS SHOWN ON SHEARWALL LINES ARE CONSIDERED SEGMENTS

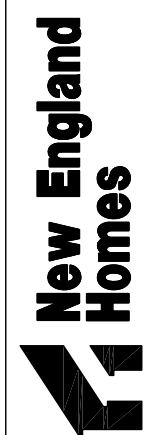
ATTACH UNBLOCKED ROOF AND FLOOR DIAPHRAGM W/ 0.131"x2.5" NAILS @ 6" O.C. BOUNDARY, 6" O.C. EDGE AND 12" O.C. FIELD

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**11387**  
Revision: **GG**  
Sheet: **A-22**

SIEMENS #E55470BI200 54 SPACE PANEL			
SIZE: 200 AMP		SERIAL #: 11387	
1	COOKTOP-ELECTRIC 50A	RESERVED FOR OPTIONAL MANUAL TRANSFER SWITCH	2
3	2-POLE	2-POLE	4
5	WALL OVEN-ELECTRIC 40A	DRYER 30A	6
7	2-POLE	2-POLE	8
9	SMALL APPLIANCE 20A AFCI REFRIGERATOR	WASHER 20A AFCI/GFCI	10
11	SMALL APPLIANCE 20A AFCI KIT COUNTER/ISLAND	GENERAL LIGHTING-RECEPTS 15A AFCI SUN ROOM	12
13	SMALL APPLIANCE 20A AFCI KITCHEN COUNTERTOP	GENERAL LIGHTING 15A AFCI LIVING ROOM	14
15	SMALL APPLIANCE 20A AFCI DINING	GENERAL LIGHTING-LIGHTS 15A AFCI LIVING ROOM	16
17	SMALL APPLIANCE 20A AFCI PANTRY	GENERAL LIGHTING-LIGHTS 15A AFCI STUDY	18
19	DISHWASHER 20A AFCI/GFCI LOCK-OUT	GENERAL LIGHTING-RECEPTS 15A AFCI STUDY	20
21	MICROWAVE 20A AFCI/GFCI	GENERAL LIGHTING-LIGHTS 15A AFCI ENTRY/BREEZEWAY	22
23	RANGE HOOD 20A AFCI/GFCI	GENERAL LIGHTING-RECEPTS 15A AFCI ENTRY	24
25	GFI-OUTLET 20A BTH-2	GENERAL LIGHTING 15A AFCI PANTRY/BTH2/HALL/KIT	26
27	ELECTRIC HEAT 20A BTH-2	GENERAL LIGHTING 15A AFCI KITCHEN PENDANTS	28
29	2-POLE	GENERAL LIGHTING 15A AFCI KITCHEN U.C.	30
31	GFI-OUTLET 20A M.BTH	GENERAL LIGHTING 15A AFCI BASEMENT	32
33	ELECTRIC RADIANT HEAT 20A AFCI/GFCI M.BTH	GENERAL LIGHTING-RECEPTS 15A AFCI M.BEDRM1	34
35	GFI-OUTLET 20A BTH-3	GENERAL LIGHTING-LIGHTS 15A AFCI M.BEDRM1/M.BTH/WIC	36
37	ELECTRIC RADIANT HEAT 20A AFCI/GFCI BTH-3	GENERAL LIGHTING 15A AFCI BEDRM1-2	38
39	RADON REDUCTION SYSTEM 20A	GENERAL LIGHTING 15A AFCI BEDRM1-3/SMOKE	40
41	-SPARE- -SPARE-	GENERAL LIGHTING 15A AFCI LAUNDRY	42
43	-SPARE- -SPARE-	GENERAL LIGHTING 15A AFCI HALL-2ND/STAIRS/BTH3	44
45	-SPARE- -SPARE-	GENERAL LIGHTING-LIGHTS 15A AFCI SUN ROOM	46
47	-SPARE- -SPARE-	-SPARE- -SPARE-	48
49	-SPARE- -SPARE-	-SPARE- -SPARE-	50
51	RESERVED FOR FUTURE SOLAR PER 2015 IECC	-SPARE- -SPARE-	52
53	RESERVED FOR FUTURE SOLAR PER 2015 IECC	-SPARE- -SPARE-	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 BY BUILDER.  
2. \*\* = INTER-CONNECT @ ATTIC BY BUILDER.

(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	/
	/	11	/
	/	11	/
	/	11	/
	/	11	/

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
			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
			CARBON MONOXIDE DETECTOR/ALARM
			HEAT DETECTOR/ALARM
			FLOOD LIGHT
			JUNCTION BOX
			ARC FAULT CIRCUIT INTERRUPTER
			HRV

ELECTRICAL GENERAL NOTES

- All notes containing the term "by the builder" 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 builder 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 builder 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 junction 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 builder 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 builder 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 §  
International Residential Code (2015 Ed.) 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.
- One (1) approved smoke detector shall be located inside of each separate sleeping area and inside all bedrooms.
- 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 3'-6" 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  
International Residential Code (2015 Ed.) 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.

ELECTRICAL SYSTEMS - National Electrical Code (NFPA 70) 2017 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.
- Outlets: To be listed tamper-resistant outlets in accordance with NEC 406.12 (A-C) 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 E (1)-(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

PRODUCTION DRAWINGS

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

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

277 Locust Street, Suite B  
Dover, NH 03820  
www.newenglandhomes.net  
(Telephone) 800.800.8831  
(Fax) 603.431.9540

**New England Homes**

**W.P. CLARK AND SON**

Structure Desc: CUSTOM LEED SHEET

N.T.S.

Drawn: 3/11/2020 RTA

Revisions: 4/28/2020 RTA

5/26/2020 RTA

6/12/2020 RTA

6/26/2020 RTA

7/2/2020 RTA

8/3/2020 RTA

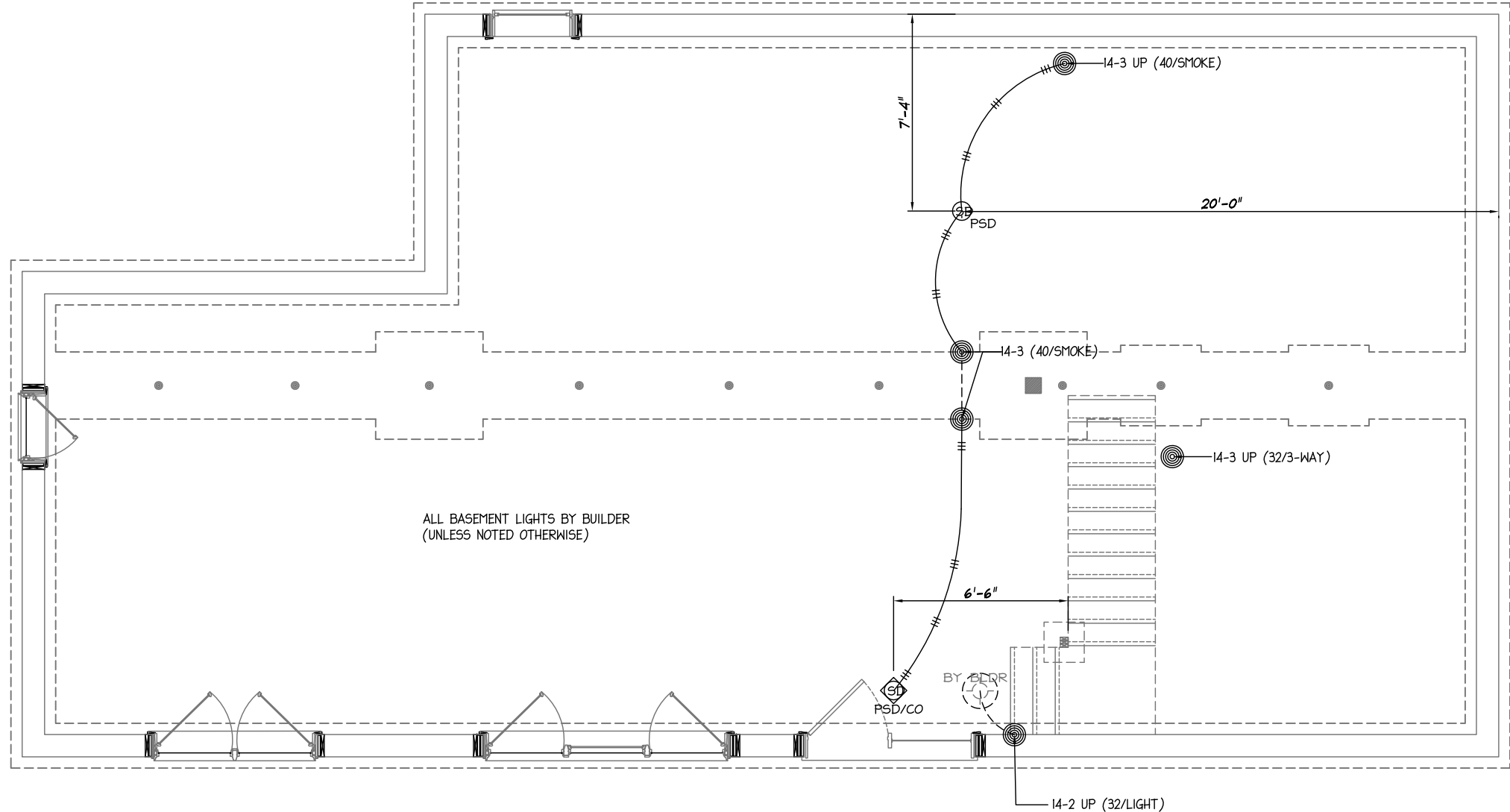
9/2/2020 RTA

11387

Revision: GG

Sheet: E-1





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)

<b>11387</b>	Drawn:	3/11/2020	RTA
	Revisions	4/28/2020	RTA
Revision:		5/26/2020	RTA
	<b>GG</b>	6/12/2020	RTA
Sheet:		6/26/2020	RTA
	<b>E-2</b>	7/2/2020	RTA
		8/3/2020	RTA
		9/2/2020	RTA

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**New England Homes**

**W.P. CLARK AND SON**  
Structure Desc: **CUSTOM**

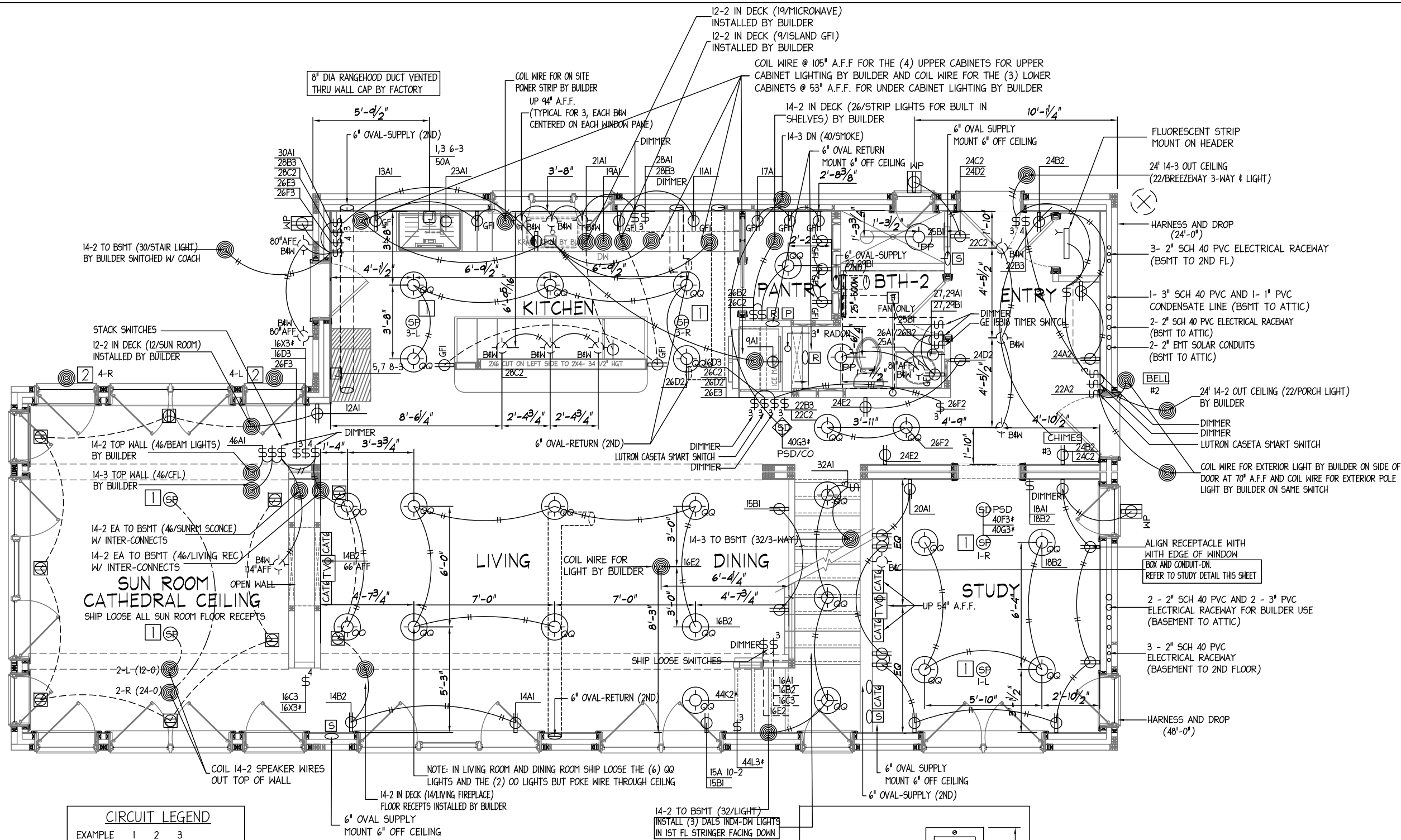
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**FOUNDATION PLAN ELECTRICAL**

**PRODUCTION DRAWINGS**

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Signature \_\_\_\_\_ Date \_\_\_\_\_  
NEW ENGLAND HOMES INDEPENDENT BUILDERS DULY AUTHORIZED AGENT PER CONTRACT AGREEMENT



**CIRCUIT LEGEND**

EXAMPLE 1 2 3  
          1 A 1

- CIRCUIT #
- JUMPER  
(A=BREAKER / B=B / C=C / ETC.)
- WIRE SIZE

1- 12-2 / 2- 14-2 / 3- 14-3 / 4- 12-3

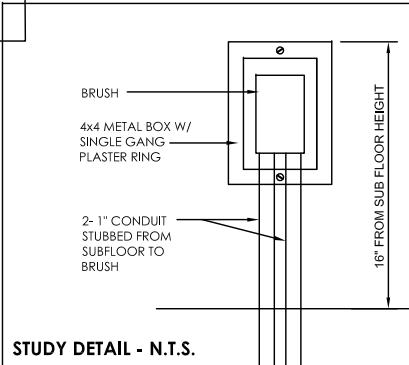
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**LOW VOLTAGE KEY**

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

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

- NEH TO COIL 14 CONDUCTOR 2 GAUGE SPEAKER WIRE IN CEILING FOR ON SITE SPEAKER INSTALLATION BY BUILDER. HOME RUN SPEAKER WIRE TO STUDY ON STAIRWELL WALL
  - NEH TO COIL 14 CONDUCTOR 4 GAUGE SPEAKER WIRE AT 8'-4" A.F.F. CENTERED ON WINDOW, FOR ON SITE SPEAKER INSTALLATION BY BUILDER. HOME RUN SPEAKER WIRE TO STUDY ON STAIRWELL WALL
- SPEAKER LEGEND**
- STUDY
  - SUN ROOM
  - KITCHEN
  - REAR DECK



**PRODUCTION DRAWINGS**

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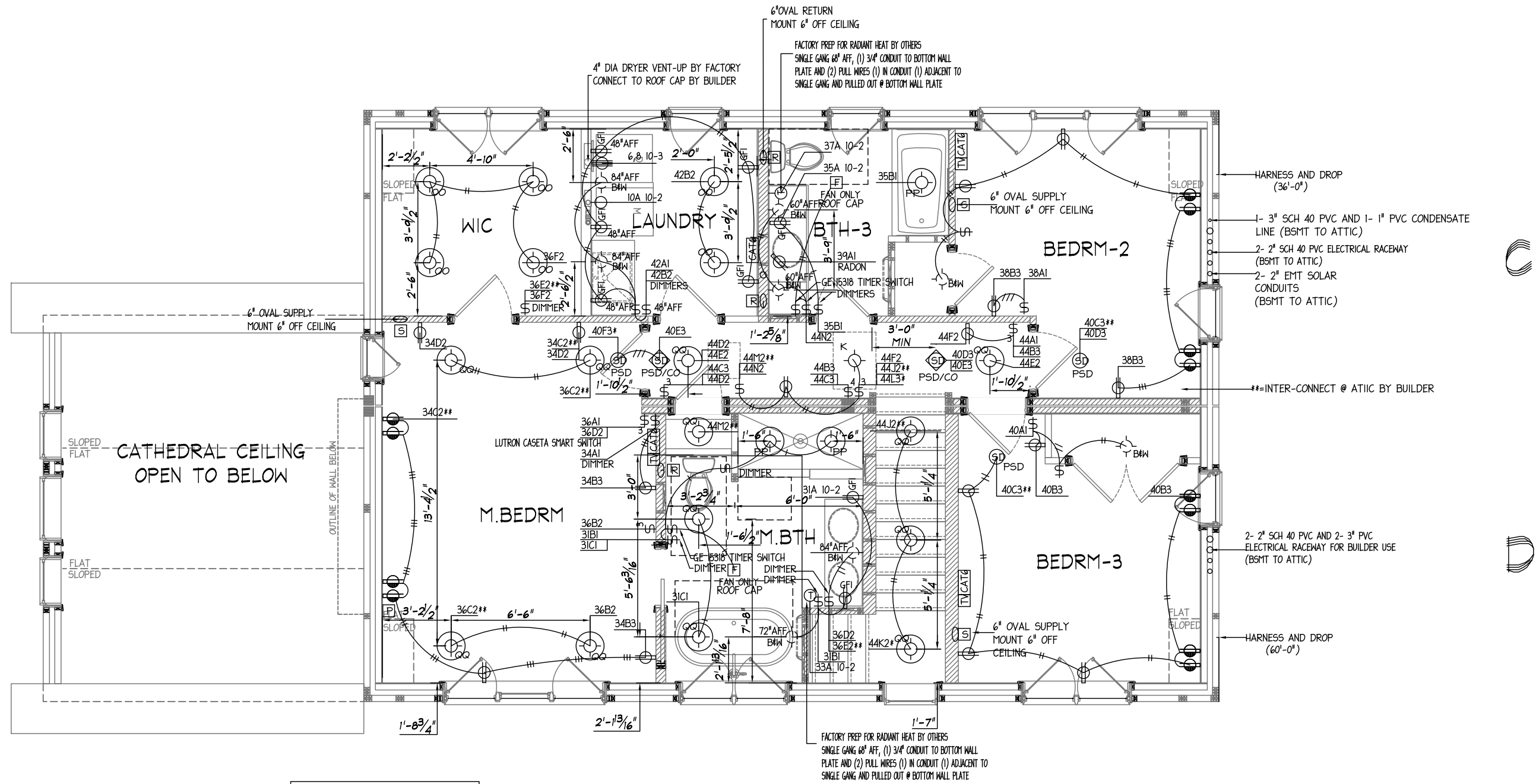
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**W.P. CLARK AND SON**  
 Structure Desc: CUSTOM  
 Scale: 3/16"=1'-0"  
**FIRST FLOOR PLAN ELECTRICAL**

Drawn:	RTA
Revisions:	RTA
3/11/2020	RTA
4/28/2020	RTA
5/26/2020	RTA
6/12/2020	RTA
6/26/2020	RTA
7/2/2020	RTA
8/3/2020	RTA
9/2/2020	RTA

**11387**  
 Revision: **GG**  
 Sheet: **E-3**



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)		

# PRODUCTION DRAWINGS

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	<b>W.P. CLARK AND SON</b> Structure Desc: CUSTOM <b>3/16"=1'-0"</b> <b>SECOND FLOOR PLAN ELECTRICAL</b>
Drawn: 3/11/2020 RTA Revisions: 4/28/2020 RTA 5/26/2020 RTA 6/12/2020 RTA 6/26/2020 RTA 7/2/2020 RTA 8/3/2020 RTA 9/2/2020 RTA	Builder: _____ Scale: _____ Sheet: <b>E-4</b>

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

LEGEND	
	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)
- | 2015 UNIFORM PLUMBING CODE - TABLE 1002.2 |                                  |      |
|---|----------------------------------|------|
| PIPE DIA                                  | DISTANCE OF TRAP TO VENT, INCHES |      |
| 1-1/2"                                    | 3"                               | 42"  |
| 2"  | 4"                               | 60"  |
| 3"  | 6"                               | 72"  |
| 4"  | 8"                               | 120" |
- 2015 UNIFORM PLUMBING CODE - TABLE 1002.2
- | PIPE DIA | DISTANCE OF TRAP TO VENT, INCHES |         |
|----------|----------------------------------|---------|
|          | MINIMUM                          | MAXIMUM |
| 1-1/2"   | 3"                               | 42"     |
| 2"       | 4"                               | 60"     |
| 3"       | 6"                               | 72"     |
| 4"       | 8"                               | 120"    |
- MAINTAIN 1/4" PER FOOT SLOPE.  
DEVELOPED LENGTH BETWEEN TOP OF WATER CLOSET FLANGE TO INNER EDGE OF VENT SHALL NOT EXCEED 6'-0".
- SLOPE OF HORIZONTAL DRAINAGE PIPING NOT LESS THAN 1/4" PER FOOT FOR 3" OR LESS PIPE.
  - PLUMBING IS CUSTOM INSTALLED AND SUPPORTED BY BORED HOLES IN THE STACK WALL.
  - DWV 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.

MAIN WATER DISTRIBUTION PIPE SIZED BY BUILDER PER 2015 UNIFORM PLUMBING CODE AND LOCAL CODE. STATIC PRESSURE 40 PSI (MIN) / 80 PSI (MAX). MINIMUM SIZE FOR BUILDING SUPPLY IS 3/4" PIPE

- ALL HORIZONTAL VENT BRANCH PIPING SHALL BE LOCATED A MINIMUM OF SIX INCHES(6") ABOVE FLOOD LEVEL OF THE HIGEST FIXTURE SERVED.
- 1.6 GAL. WATER CONSERVING TOILETS INSTALLED WHERE REQUIRED BY CODE.
- ANTI SCALD DIVERTER ASSEMBLIES SHALL BE INSTALLED ON ALL SHOWER & COMBINATION TUB/SHOWER UNITS.
- ALL EXTERIOR HOSE BIBBS (INSTALLED ON SITE BY THE BUILDER) TO BE ANTI-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) BY THE BUILDER.
- ALL CONNECTIONS BETWEEN THE 1st FLOOR CEILING AND THE 2nd FLOOR AND BELOW THE 1st FLOOR ARE TO BE SUPPLIED AND INSTALLED (IN COMPLIANCE WITH THE APPLICABLE PLUMBING CODES) BY THE BUILDER.
- 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) BY THE BUILDER.
- 2015 IECC R403.5.3 - HOT WATER PIPE INSULATION R-3 PIPE INSULATION IS REQUIRED ON:  
PIPING GREATER THAN OR EQUAL TO 3/4" IN NOMINAL DIAMETER  
PIPING SERVING MORE THAN ONE DWELLING UNIT  
PIPING LOCATED OUTSIDE THE CONDITIONED SPACE  
PIPING FROM A WATER HEATER TO A DISTRIBUTION MANIFOLD-BY BUILDER  
PIPING UNDER A FLOOR SLAB-BY BUILDER  
BURIED PIPING-BY BUILDER  
SUPPLY AND RETURN PIPING IN RECIRCULATING SYSTEMS OTHER THAN DEMAND RECIRCULATION SYSTEMS
- FOR SIMPLIFICATION, THE MANUFACTURER OF BUILDING PRODUCTS KNOWN AS NEW ENGLAND HOMES, WILL BE IDENTIFIED THROUGHOUT THE BUILDING SYSTEMS DOCUMENTATION AS "THE COMPANY". THE PURCHASER WHO IS THE CONTRACTUAL PURCHASER OF GOODS FROM THE COMPANY WILL BE IDENTIFIED THROUGHOUT THE BUILDING SYSTEM DOCUMENTATION AS THE BUILDER.

**HEATING CALCULATIONS**

A ROOM BY ROOM HEAT LOSS CALCULATION IS PERFORMED FOR EVERY STRUCTURE BUILT, ON A CONTRACT SPECIFIC BASIS, USING THE IBA-H-#21 HEAT LOSS CALCULATION GUIDE, THIRD EDITION-MARCH 2004, AS THE SOURCE OF AUTHORITY.

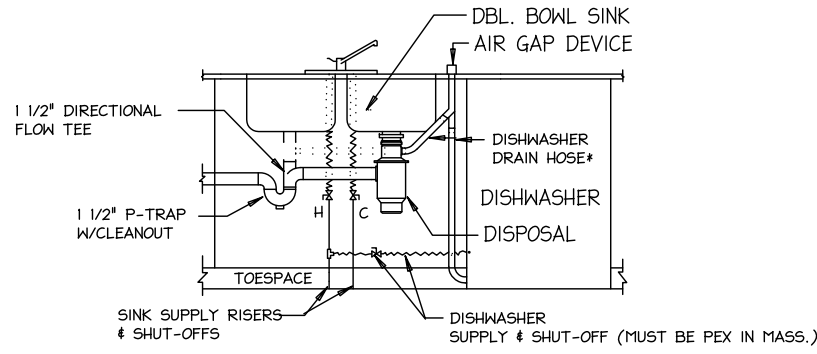
INDOOR DESIGN TEMPERATURE- +70"  
OUTDOOR DESIGN TEMPERATURE- +4"  
DESIGN TEMPERATURE DIFF.- 66" WITH 15 MPH. WINDS  
ROOM HEATING REQUIREMENTS:

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.

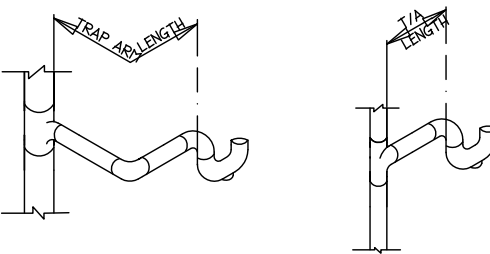
QUANTITY OF HEAT:  
HOT WATER: TOTAL BTUH @ DESIGN TEMPERATURE DIVIDED BY 5704 BTUH/LIN. FT. OF BASEBOARD-TOTAL LENGTH OF HOT WATER BASEBOARD REQUIRED FOR BEING CALCULATED.  
\*BASED ON 1 GPM FLOW RATE AT 180° WATER TEMPERATURE & 65° F ENTERING AIR

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



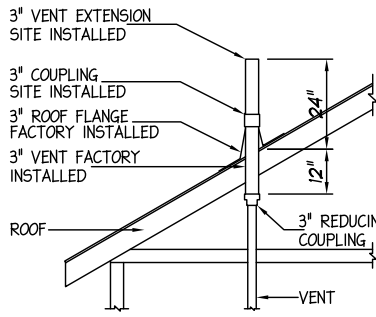
DISHWASHER AND/OR GARBAGE DISPOSAL INSTALLATION W/AIR GAP DEVICE (OPT)

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

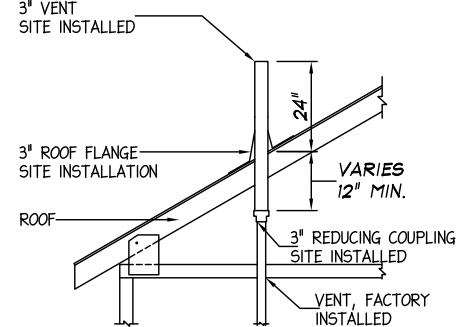


TRAP ARM LENGTHS (NO SCALE)

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



VENT TERMINATION DETAIL FOR TRUSS ROOFS (NO SCALE)



VENT TERMINATION DETAIL FOR PINNED RAFTER ROOFS (NO SCALE)

**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) BY THE BUILDER.

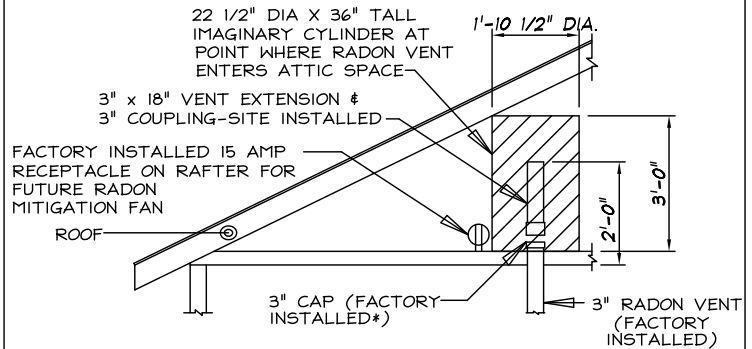
FLUES/CHIMNEYS FOR HEAT SOURCES ARE NOT SUPPLIED OR INSTALLED BY N.E.H. FLUE CAVITIES CAN, UPON REQUEST, BE PROVIDED. THESE CAVITIES WILL CONSIST OF ROUGH OPENINGS IN THE FLOOR AND CEILING AS WELL AS THE WALLS TO SURROUND THE CAVITY ONE OF WHICH IS SHIPPED LOOSE, TO FACILITATE THE INSTALLATION OF THE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

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

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

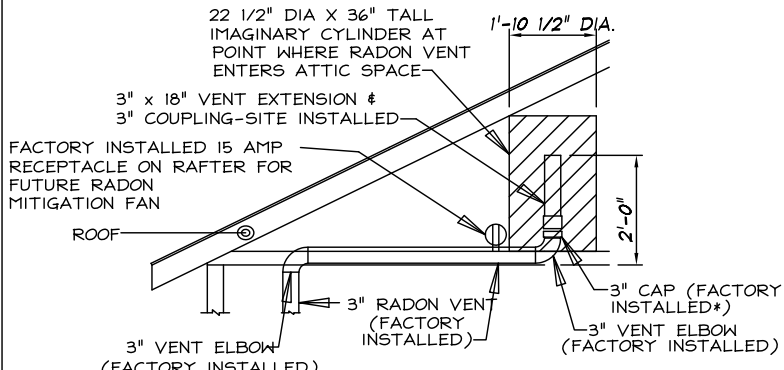
RANGE HOODS THAT ARE REQUIRED TO BE VENTED, SHALL BE DUCTED TO THE EXTERIOR OF THE STRUCTURE. IF THE RANGE IS AGAINST AN EXTERIOR WALL THE HOOD WILL BE DUCTED THROUGH THAT WALL. IF THE RANGE IS ON AN INTERIOR PARTITION, THE HOOD WILL BE DUCTED (VIA KITCHEN SOFFITS) THROUGH THE EXTERIOR WALL OR ROOF.

\*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

**PRODUCTION DRAWINGS**

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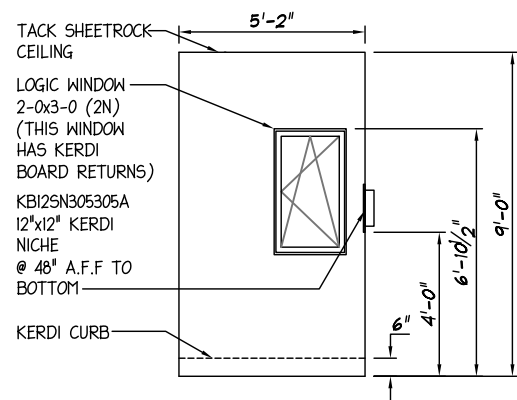
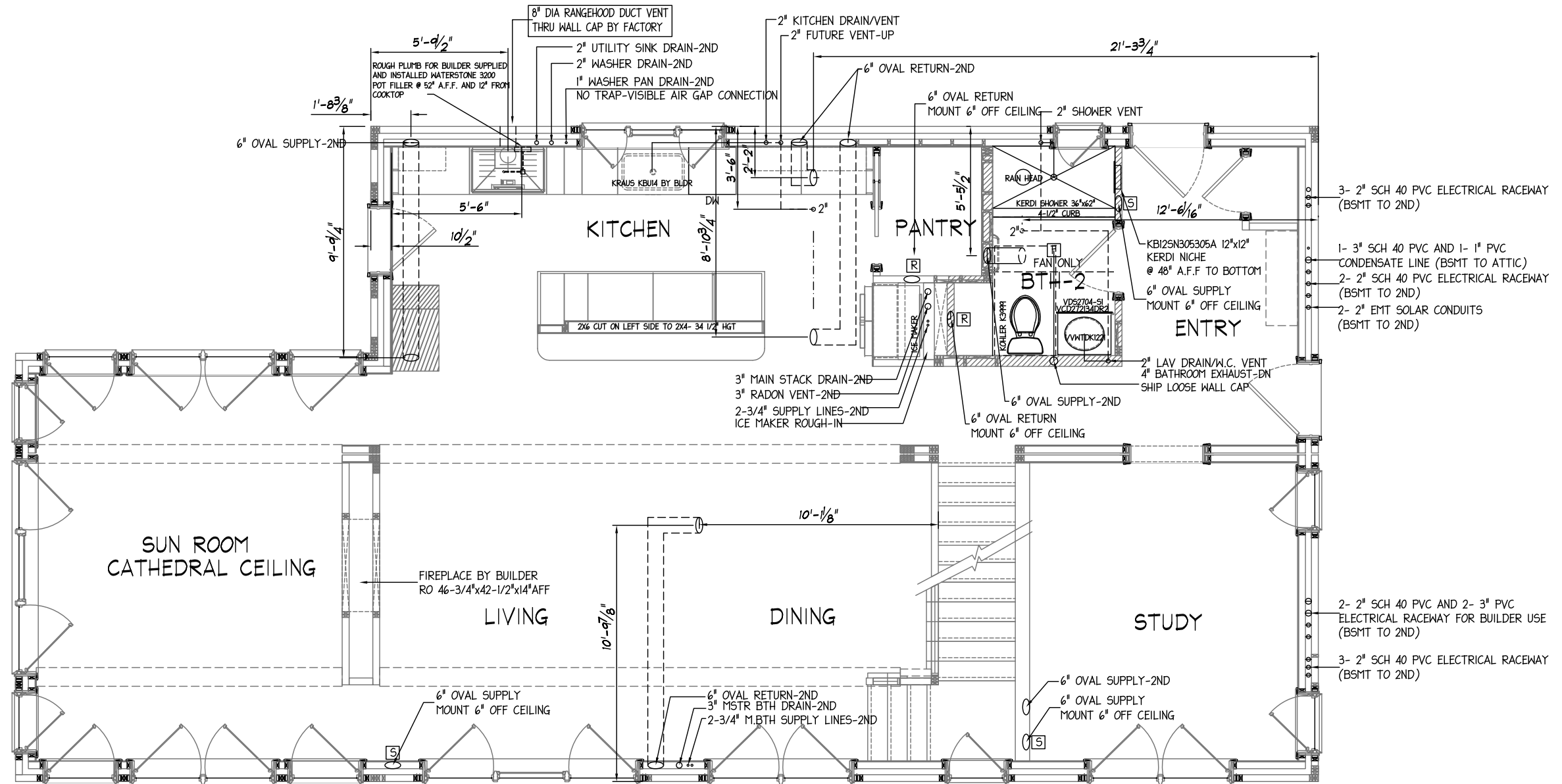
Signature: \_\_\_\_\_ Date: \_\_\_\_\_  
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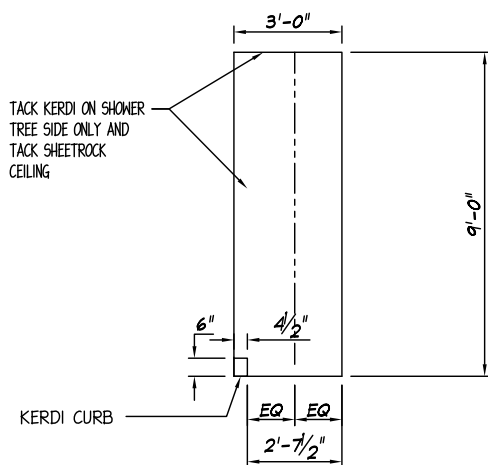
**W.P. CLARK AND SON**  
Structure Desc: CUSTOM  
N.T.S.  
LEED SHEET

Drawn:	RTA
Revisions:	RTA
4/28/2020	RTA
5/26/2020	RTA
6/12/2020	RTA
6/26/2020	RTA
7/2/2020	RTA
8/3/2020	RTA
9/2/2020	RTA

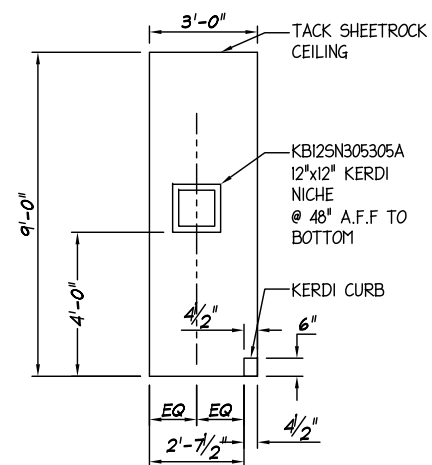
11387  
Revision: **GG**  
Sheet: **M-1**



BATH-2 SHOWER DETAIL  
N.T.S.



NOTE: ALL BATH 2 SHOWER VALVES AND TRIM ON SITE BY BUILDER



3- 2" SCH 40 PVC ELECTRICAL RACEWAY (BSMT TO 2ND)

1- 3" SCH 40 PVC AND 1- 1" PVC CONDENSATE LINE (BSMT TO ATTIC)  
2- 2" SCH 40 PVC ELECTRICAL RACEWAY (BSMT TO 2ND)  
2- 2" EMT SOLAR CONDUITS (BSMT TO 2ND)

2- 2" SCH 40 PVC AND 2- 3" PVC ELECTRICAL RACEWAY FOR BUILDER USE (BSMT TO 2ND)  
3- 2" SCH 40 PVC ELECTRICAL RACEWAY (BSMT TO 2ND)

# PRODUCTION DRAWINGS

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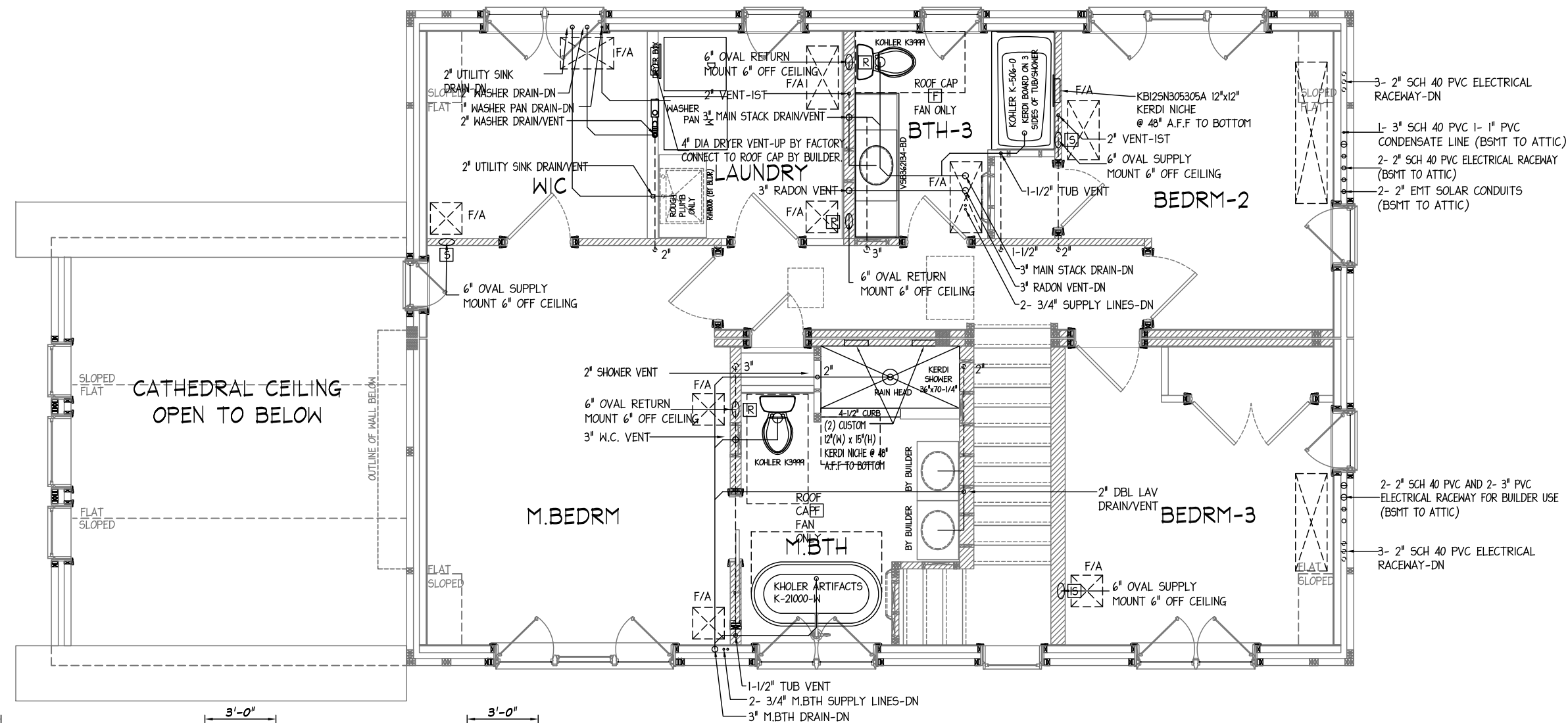
**W.P. CLARK AND SON**

Structure Desc: **CUSTOM**

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

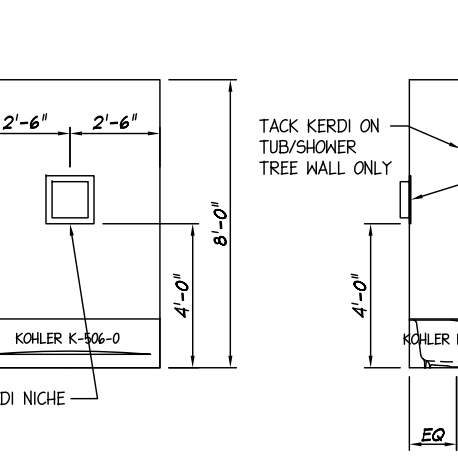
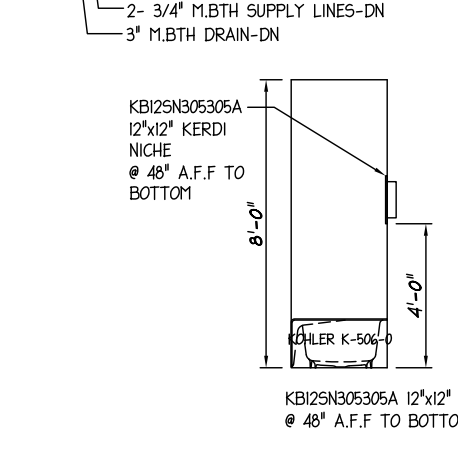
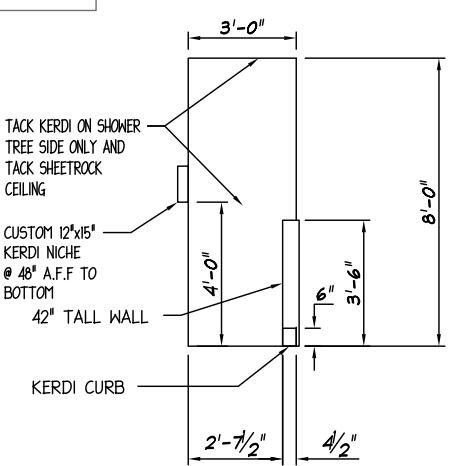
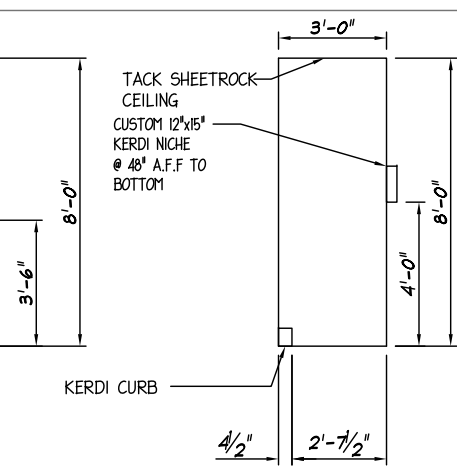
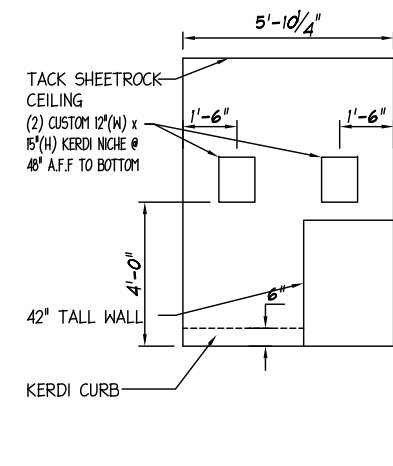
**FIRST FLOOR PLAN MECHANICAL**

Drawn:	3/11/2020	RTA	Revisions	4/28/2020	RTA	5/26/2020	RTA	6/12/2020	RTA	6/26/2020	RTA	7/2/2020	RTA	8/3/2020	RTA	9/2/2020	RTA
11387	Revision:	<b>GG</b>	Sheet:	<b>M-2</b>													



- 3- 2" SCH 40 PVC ELECTRICAL RACEWAY-DN
- 1- 3" SCH 40 PVC 1- 1" PVC CONDENSATE LINE (BSMT TO ATTIC)
- 2- 2" SCH 40 PVC ELECTRICAL RACEWAY (BSMT TO ATTIC)
- 2- 2" EMT SOLAR CONDUITS (BSMT TO ATTIC)

- 2- 2" SCH 40 PVC AND 2- 3" PVC ELECTRICAL RACEWAY FOR BUILDER USE (BSMT TO ATTIC)
- 3- 2" SCH 40 PVC ELECTRICAL RACEWAY-DN



NOTE: ALL M. BATH SHOWER VALVES AND TRIM ON SITE BY BUILDER

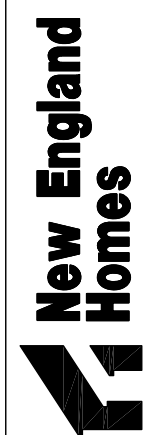
NOTE: ALL BATH 3 TUB/SHOWER VALVES AND TRIM ON SITE BY BUILDER

# PRODUCTION DRAWINGS

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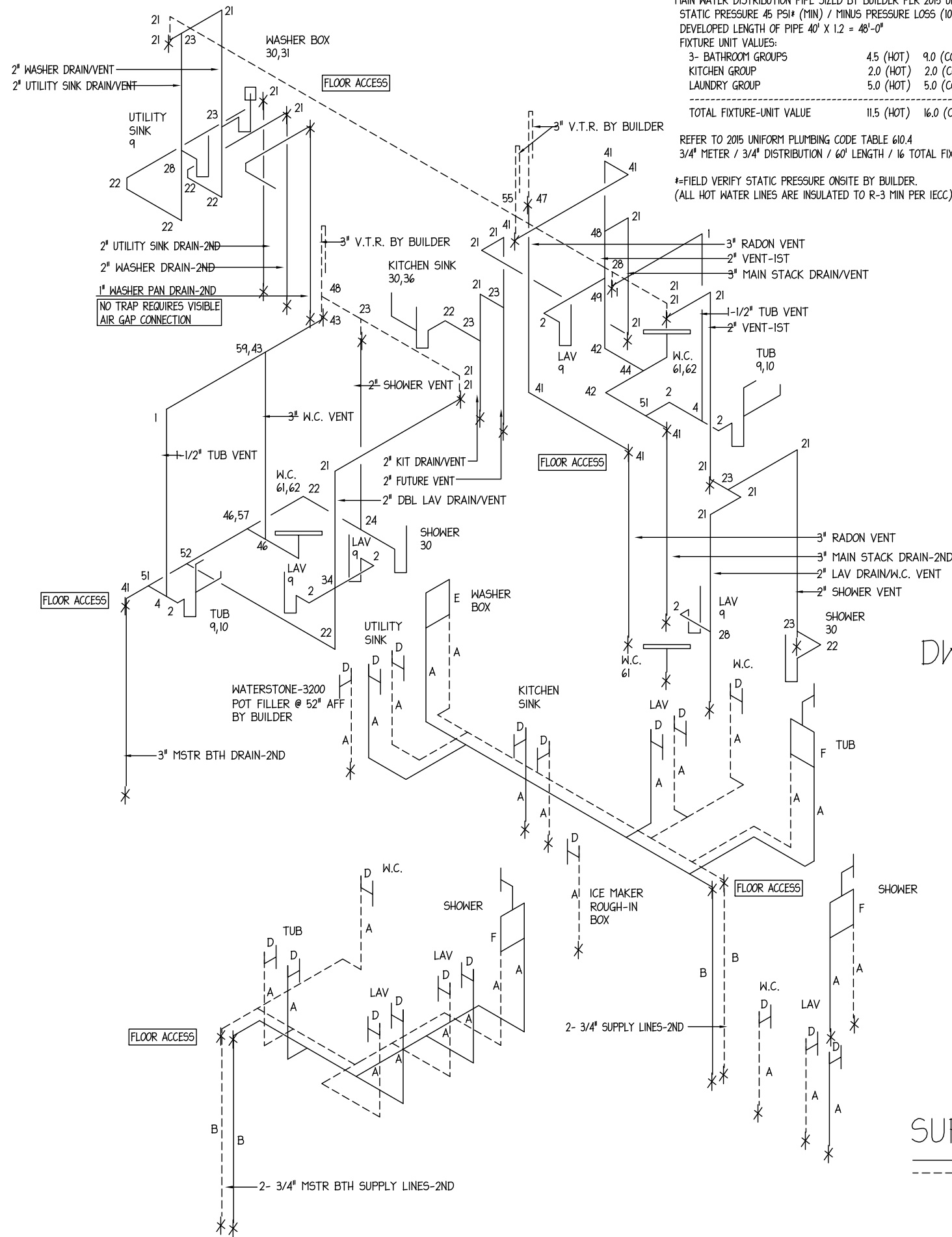
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**W.P. CLARK AND SON**  
 Structure Desc: CUSTOM

## 3/16"-1"0" SECOND FLOOR PLAN MECHANICAL

Drawn:	RTA
3/11/2020	Revisions
4/28/2020	RTA
5/26/2020	RTA
6/12/2020	RTA
6/26/2020	RTA
7/2/2020	RTA
8/3/2020	RTA
9/2/2020	RTA
11387	
Revision:	GG
Sheet:	M-3



MAIN WATER DISTRIBUTION PIPE SIZED BY BUILDER PER 2015 UNIFORM PLUMBING CODE AND LOCAL CODE.  
 STATIC PRESSURE 45 PSI\* (MIN) / MINUS PRESSURE LOSS (10' X 0.5) = 5 PSI / ADJUSTED PRESSURE 40 PSI.  
 DEVELOPED LENGTH OF PIPE 40' X 1.2 = 48'-0"

FIXTURE UNIT VALUES:  
 3- BATHROOM GROUPS 4.5 (HOT) 9.0 (COLD)  
 KITCHEN GROUP 2.0 (HOT) 2.0 (COLD)  
 LAUNDRY GROUP 5.0 (HOT) 5.0 (COLD)

-----  
 TOTAL FIXTURE-UNIT VALUE 11.5 (HOT) 16.0 (COLD)

REFER TO 2015 UNIFORM PLUMBING CODE TABLE 610.4  
 3/4" METER / 3/4" DISTRIBUTION / 60' LENGTH / 16 TOTAL FIXTURE-UNIT

\*FIELD VERIFY STATIC PRESSURE ONSITE BY BUILDER.  
 (ALL HOT WATER LINES ARE INSULATED TO R-3 MIN PER IECC)

## DWV FITTING SCHEDULE

- 1 1-1/2" 90 DEGREE ELL
- 2 1-1/2" LS 90 DEGREE ELL
- 3 1-1/2" SANI-TEE
- 4 1-1/2" WYE w/ 1/8" BEND
- 5 1-1/2" DBL TEE
- 6 1-1/2" WYE
- 7 1-1/2" COUPLING
- 8 1-1/2" 1/8" BEND
- 9 1-1/2" P-TRAP W/ CLEAN OUT
- 10 TUB DRAIN & OVERFLOW
- 11 1-1/2" 45 DEGREE ELL
  
- 21 2" 90 DEGREE ELL
- 22 2" 90 DEGREE LS TEE
- 23 2" SANI-TEE
- 24 2" WYE W/ 1/8" BEND
- 25 2" DBL TEE
- 26 2" WYE
- 27 2" COUPLING
- 28 2" X 2" X 1-1/2" SANI-TEE
- 29 2" 1/8" BEND
- 30 2" P-TRAP W/ CLEAN OUT
- 31 LAUNDRY STAND PIPE (18"-36")
- 32 2" X 2" X 1-1/2" WYE
- 33 2" X 2" X 1-1/2" WYE W/ 1/8" BEND
- 34 2" X 2" X 1-1/2" DBL TEE
- 35 2" X 1-1/2" COUPLING
- 36 CONTINUOUS WASTE
- 37 2" X 1-1/2" X 2" SANI-TEE
- 38 2" 45 DEGREE ELL
  
- 41 3" 90 DEGREE ELL
- 42 3" 90 DEGREE LS ELL
- 43 3" SANI-TEE
- 44 3" WYE W/ 1/8" BEND
- 45 3" DBL TEE
- 46 3" WYE
- 47 3" COUPLING
- 48 3" X 3" X 2" SANI-TEE
- 49 3" X 3" X 1-1/2" SANI-TEE
- 50 3" WYE 1/8" BEND
- 51 3" X 3" X 1-1/2" WYE
- 52 3" X 3" X 2" WYE
- 53 3" X 3" X 1-1/2" WYE W/ 1/8" BEND
- 54 3" X 3" X 2" WYE W/ 1/8" BEND
- 55 3" X 3" X 2" X 2" DBL TEE
- 56 3" X 3" X 1-1/2" X 1-1/2" DBL TEE
- 57 3" X 2" COUPLING
- 58 3" 45 DEGREE ELL
- 59 3" X 1-1/2" COUPLING
- 61 4" CLOSET FLANGE
- 62 4" X 3" CLOSET ELL

## DWV RISER

## 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 BUILDER.
- 2-SHUT-OFFS FOR KITCHEN SINK, VANITIES & WATER CLOSETS ARE HOME-RUN TO THE BASEMENT FOR ON-SITE CONNECTION BY BUILDER.
- 3-ALL PLUMBING INCLUDING WATER HAMMER ARRESTORS & CLEAN OUTS BELOW FIRST FLOOR DECK ARE SUPPLIED & INSTALLED BY BUILDER.
- 4-MAIN WATER DISTRIBUTION PIPE SIZED BY BUILDER PER 2015 UNIFORM PLUMBING CODE AND LOCAL CODE. STATIC PRESSURE 40 PSI (MIN) / 80 PSI (MAX). MINIMUM SIZE FOR BUILDING SUPPLY IS 3/4" PIPE.

## SUPPLY RISER

———— = HOT WATER LINES W/ R-3 INSULATION  
 - - - - - = COLD WATER LINES

**PRODUCTION DRAWINGS**

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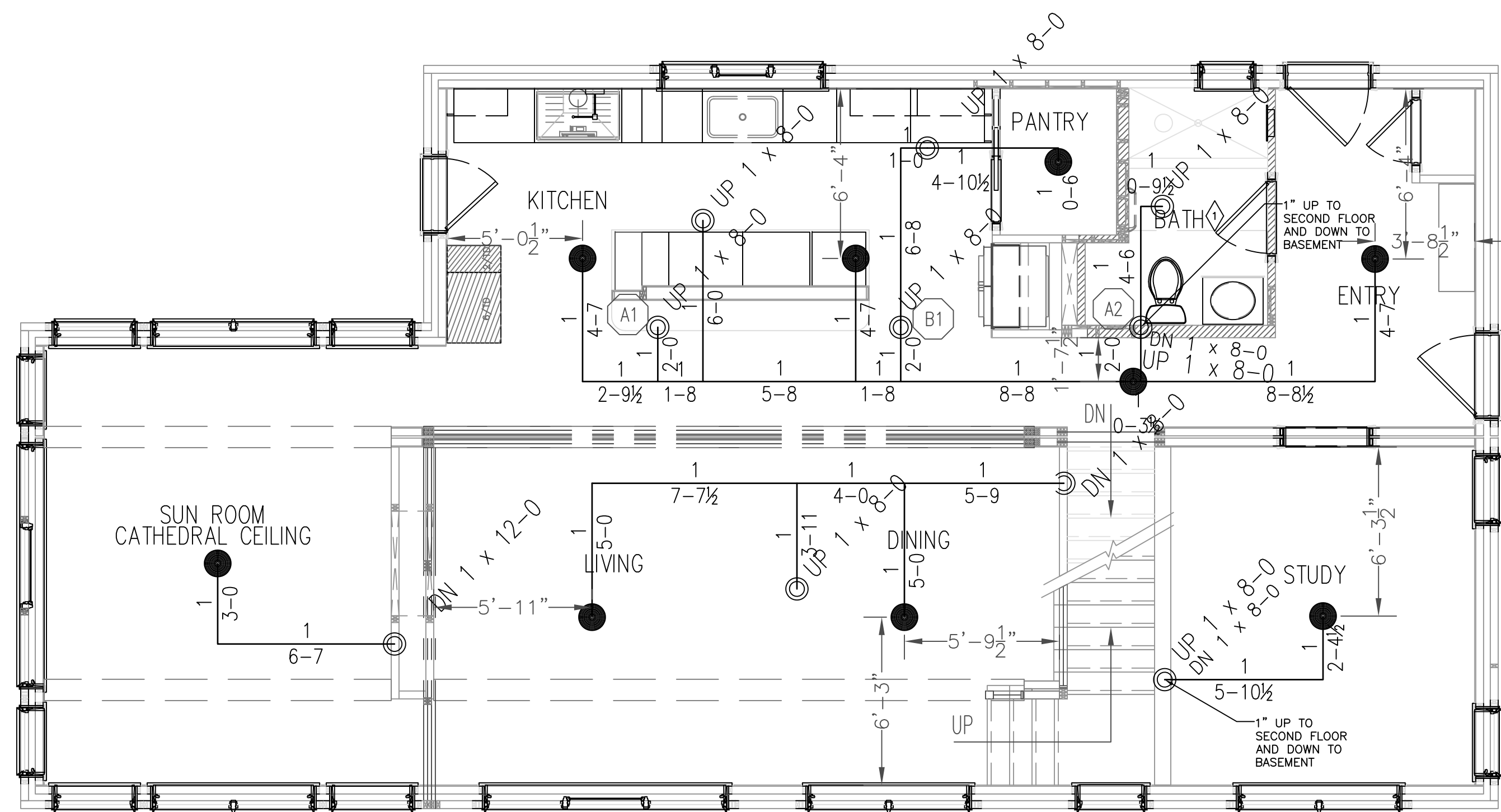
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**W.P. CLARK AND SON**  
 Structure Desc: CUSTOM  
**PLUMBING ISOMETRICS**

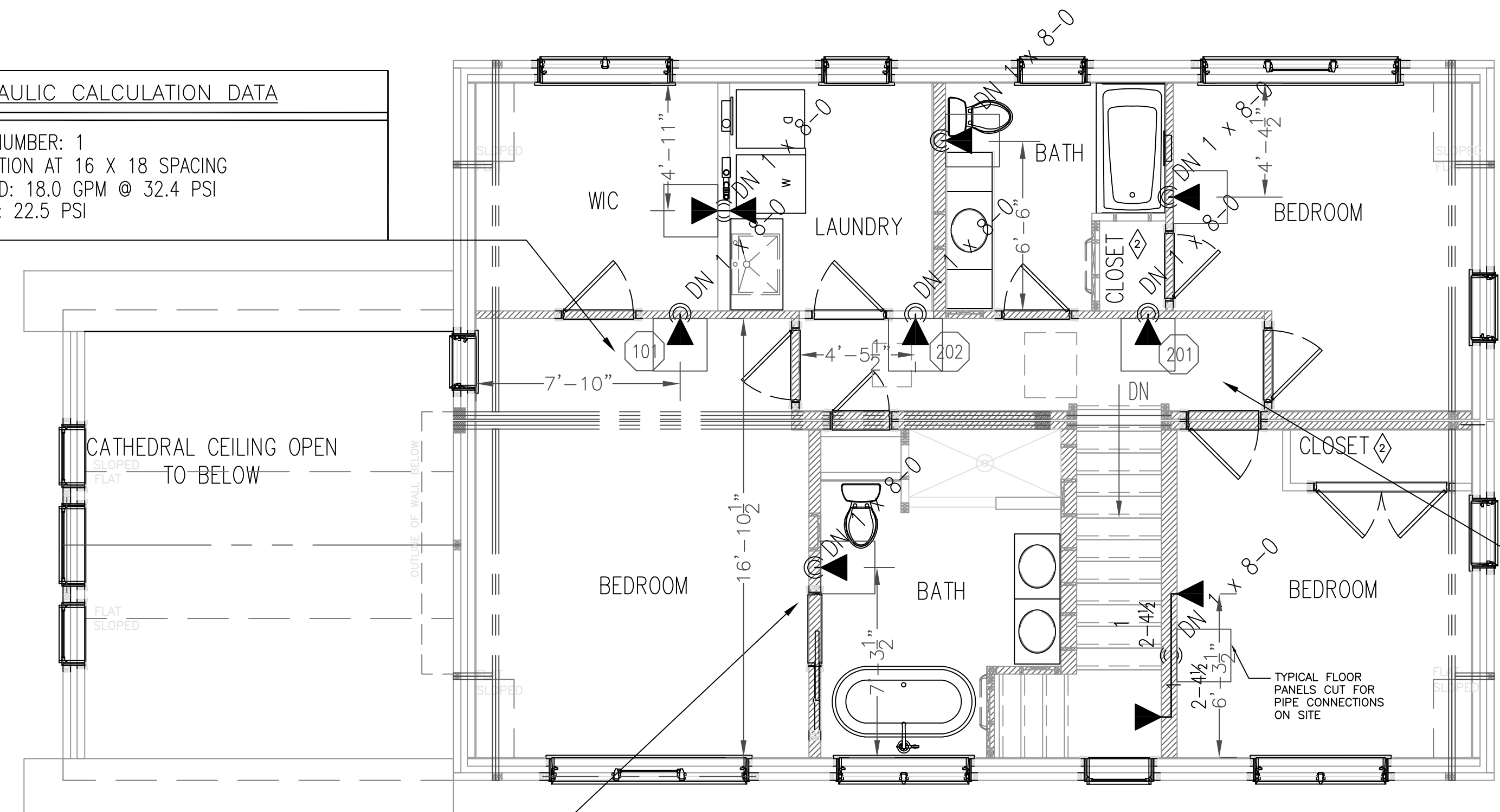
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9/2/2020	RTA

**11387**  
 Revision: **GG**  
 Sheet: **M-4**



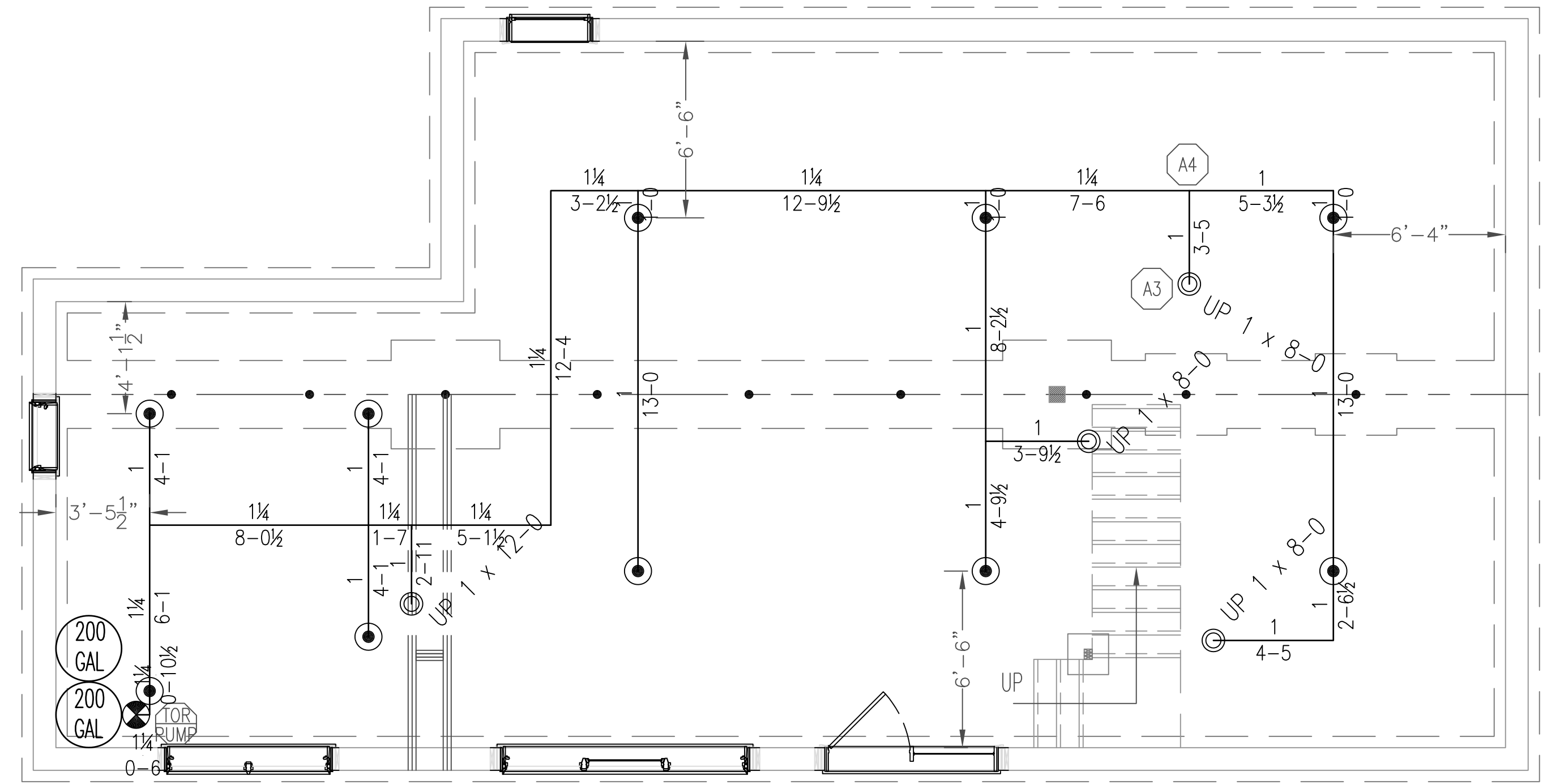
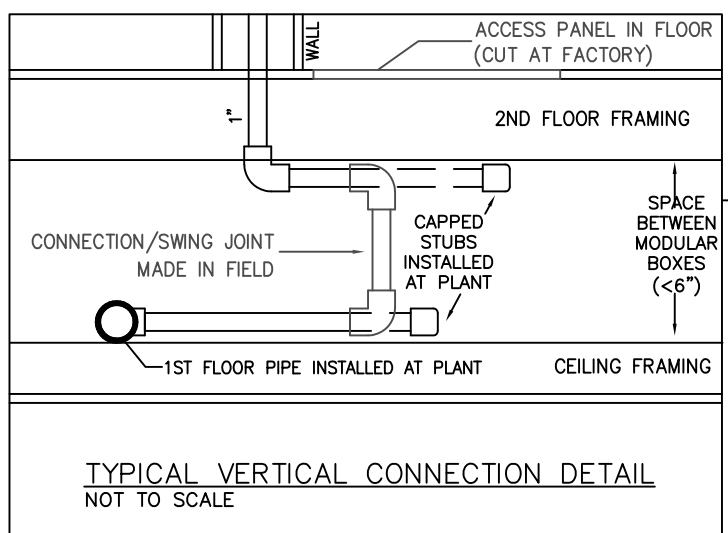
**FIRST FLOOR PLAN**  
SCALE: 1/4" = 1'-0" 1236 SQFT PROTECTED

**HYDRAULIC CALCULATION DATA**  
DESIGN AREA NUMBER: 1  
1 HEAD OPERATION AT 16 X 18 SPACING  
SYSTEM DEMAND: 18.0 GPM @ 32.4 PSI  
SAFETY MARGIN: 22.5 PSI



**SECOND FLOOR PLAN**  
SCALE: 1/4" = 1'-0" 1238 SQFT PROTECTED

**HYDRAULIC CALCULATION DATA**  
DESIGN AREA NUMBER: 2  
2 HEAD OPERATION AT 16 X 16 SPACING  
SYSTEM DEMAND: 32.9 GPM @ 34.8 PSI  
SAFETY MARGIN: 18.9 PSI



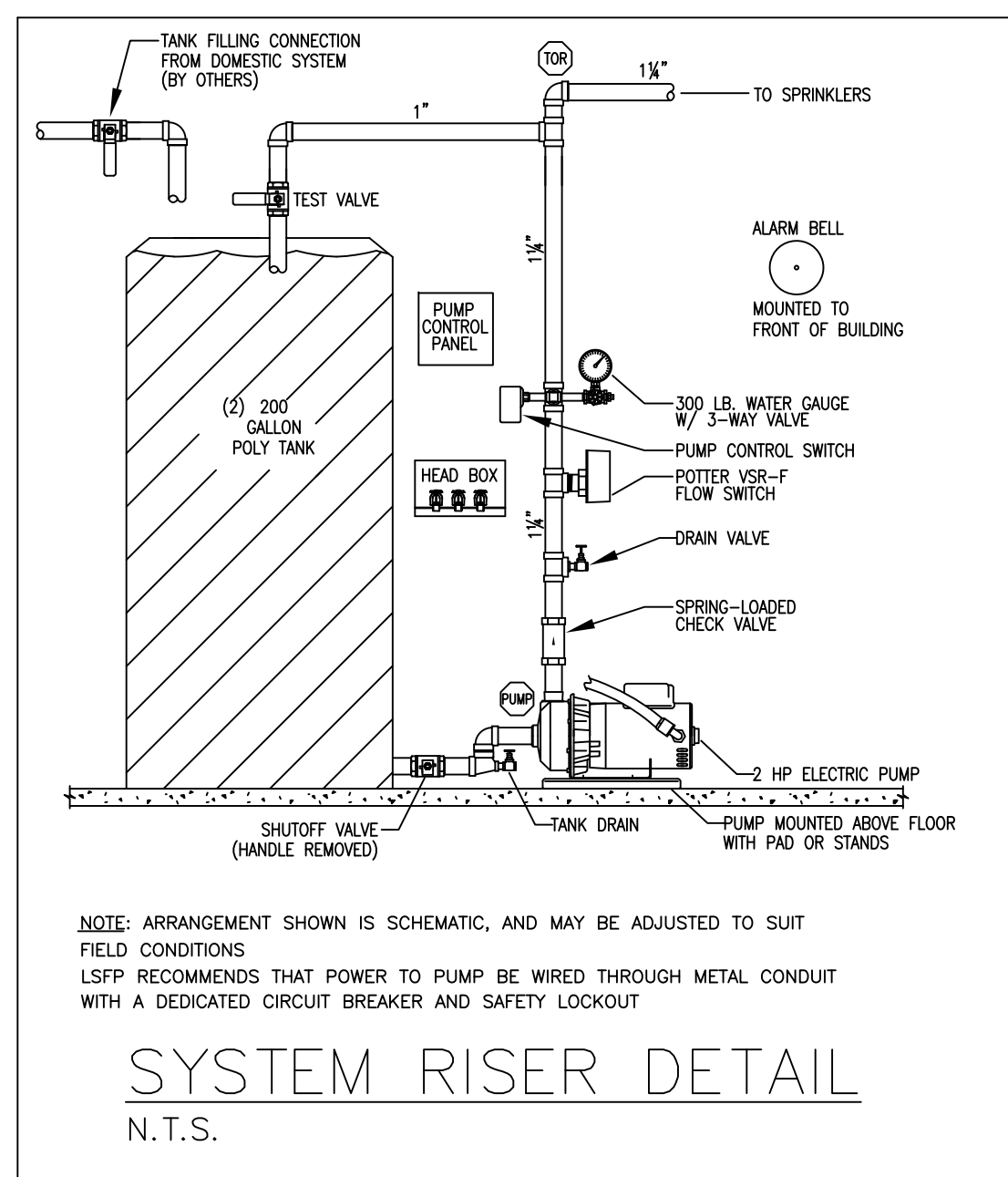
**BASEMENT PLAN**  
SCALE: 1/4" = 1'-0" 1242 SQFT PROTECTED

**CONTINUOUS OBSTRUCTION GUIDE**  
RESIDENTIAL PENDENTS AS PER TABLE 8.5.1.2

DISTANCE FROM SPRINKLERS FROM SIDE OF OBSTRUCTION (A)	MAXIMUM ALLOWABLE DISTANCE OF DEFLECTOR ABOVE BOTTOM OF OBSTRUCTION (N) (B)
LESS THAN 1 FT.	0
1 FT. TO LESS THAN 1 FT. 6 IN.	0
1 FT. 6 IN. TO LESS THAN 2 FT.	1
2 FT. TO LESS THAN 2 FT. 6 IN.	1
2 FT. 6 IN. TO LESS THAN 3 FT.	1
3 FT. TO LESS THAN 3 FT. 6 IN.	3
3 FT. 6 IN. TO LESS THAN 4 FT.	3
4 FT. TO LESS THAN 4 FT. 6 IN.	5
4 FT. 6 IN. TO LESS THAN 5 FT.	7
5 FT. TO LESS THAN 5 FT. 6 IN.	7
5 FT. 6 IN. TO LESS THAN 6 FT.	7
6 FT. TO LESS THAN 6 FT. 6 IN.	9
6 FT. 6 IN. TO LESS THAN 7 FT.	11
7 FT. AND GREATER	14

**NON-CONTINUOUS OBSTRUCTION GUIDE**  
RESIDENTIAL PENDENTS PER NFPA 13D: 8.2.5.2

DEFLECTOR	ELEVATION VIEW
SPRINKLER DEFLECTOR	

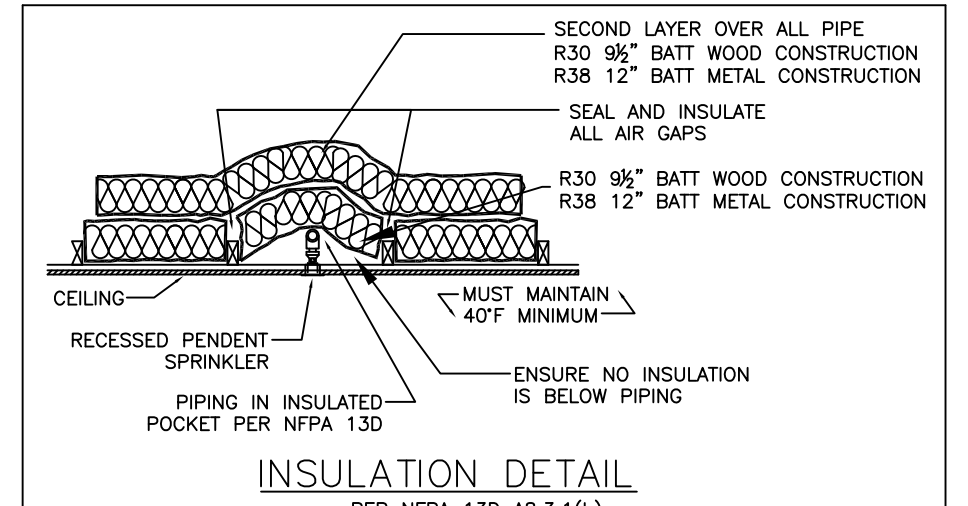
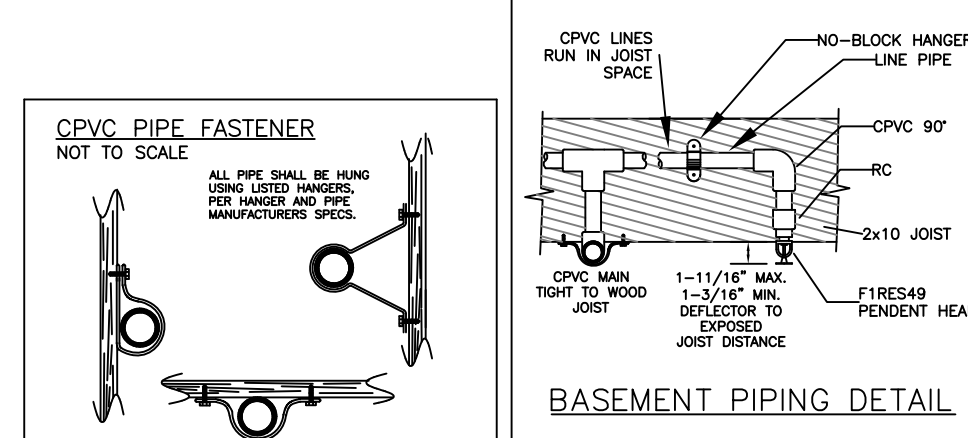
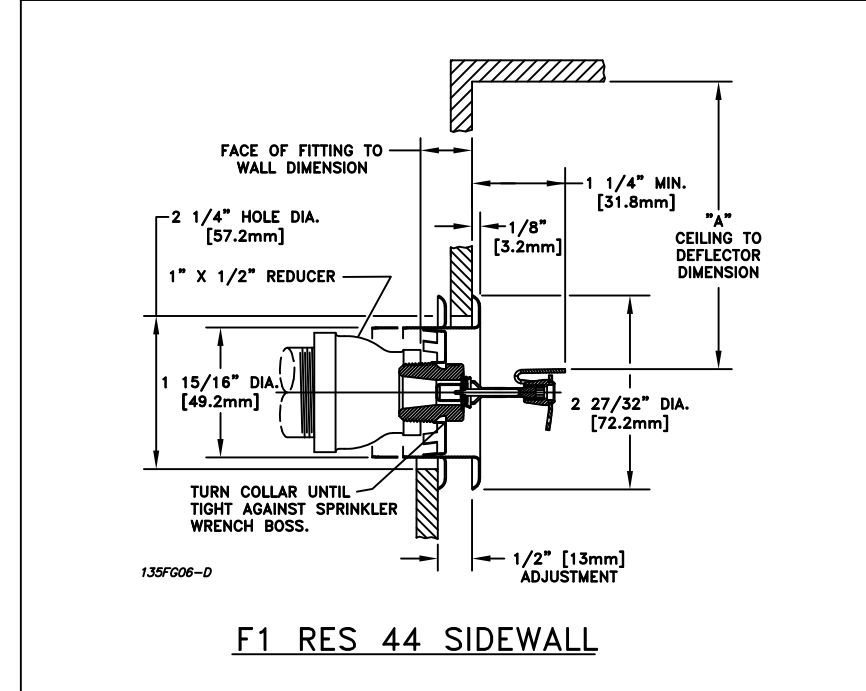
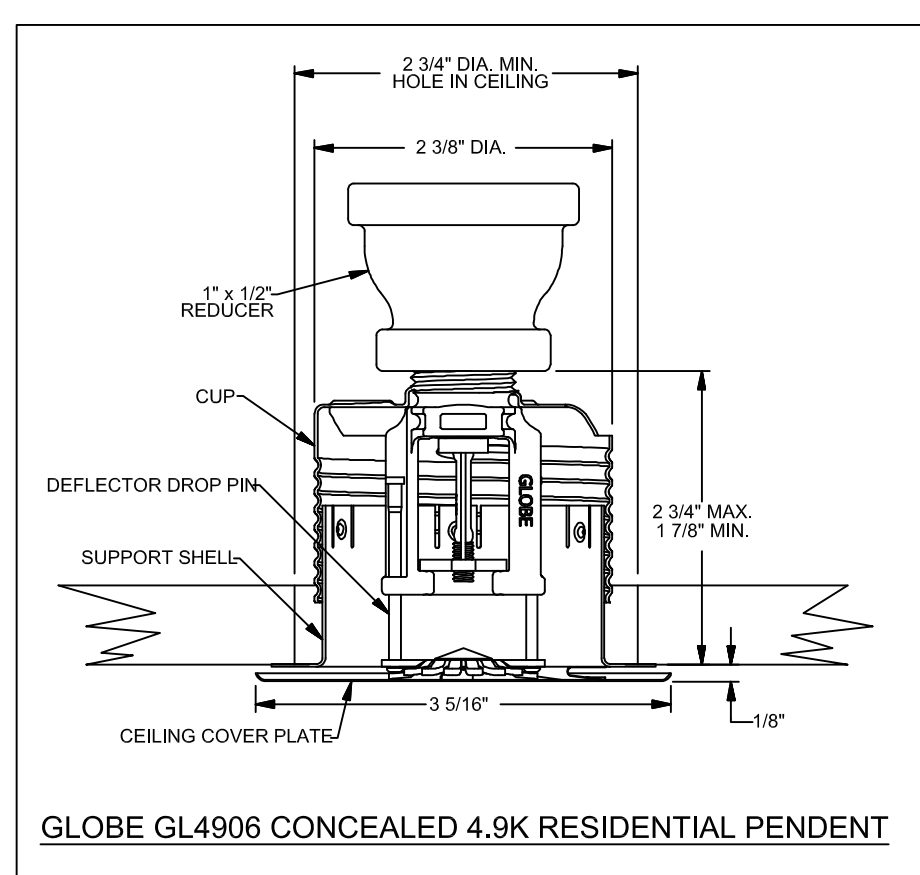


- GENERAL NOTES:**
- OWNER TO PROVIDE SUFFICIENT HEAT TO PREVENT WATER-FILLED SPRINKLER PIPING FROM FREEZING
  - OWNER TO MAINTAIN SYSTEM TO NFPA 13D STANDARDS
  - HANGERS AND SUPPORTS TO BE INSTALLED PER NFPA 13D AND MANUFACTURERS INSTALLATION RECOMMENDATIONS
  - FLOW SWITCH TO BE WIRED TO LOCAL ALARM BELL OR SMOKE DETECTORS BY OTHERS
  - BUILDING IS OF COMBUSTIBLE CONSTRUCTION
  - PLAN IS SUBJECT TO MINOR DEVIATIONS DUE TO SITE CONDITIONS AND/OR TRADE COORDINATION. DEVIATIONS SHALL NOT AFFECT SCOPE OF WORK OR CODE COMPLIANCE

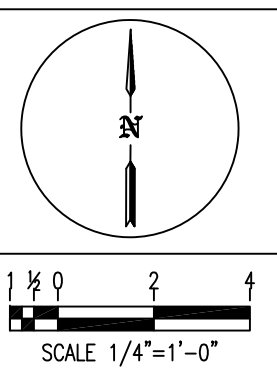
**DESIGN CRITERIA:**  
WORKMANSHIP, MATERIAL, AND DESIGN SHALL CONFORM TO NFPA 13D STANDARDS (2016 ED.) AND LOCAL REGULATIONS  
PIPE SIZED BY HYDRAULIC CALCULATIONS AS PER NFPA 13D  
**MATERIAL:**  
UNLESS NOTED OTHERWISE  
PIPING: BLAZEMASTER CPVC  
FITTINGS: BLAZEMASTER CPVC

**WATER SUPPLY INFORMATION**  
PUMP MAKE: GULLITS  
PUMP MODEL: GT-20  
PUMP RATING: 50 GPM @ 50 PSI  
SOURCE: VERTICAL HOLDING TANK  
REQUIRED SOURCE DURATION: 10 MINUTES  
MINIMUM REQUIRED SOURCE VOLUME: 265 GALLONS  
ACTUAL SOURCE VOLUME: 400 GALLONS

- KEYED NOTES**
- SPRINKLERS ARE NOT REQUIRED IN BATHROOMS UNDER 55 FT<sup>2</sup> PER NFPA 13D:8.3.2
  - SPRINKLERS ARE NOT REQUIRED IN CLOSETS AND PANTRIES PER THE CONDITIONS OF NFPA 13D:8.3.3
  - SPRINKLERS ARE NOT REQUIRED IN GARAGES AND PORCHES PER NFPA 13D:8.3.4
  - SPRINKLERS ARE NOT REQUIRED IN ATTICS PER THE CONDITIONS OF NFPA 13D:8.3.5



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Dublin, NH 03444  
(603) 563-7700 phone  
(603) 563-7070 fax  
lifesafetyfire.com  
MA License #SC006025  
ME License #FSC325 #RMS326



**LEGEND**

(O)	HYDRAULIC REFERENCE POINTS
—	HANGER LOCATION
—	PIPE RISE/DROP
—	CENTER OF PIPE ABOVE FLOOR (ft.-in.)
—	CENTER OF PIPE FROM BOTTOM OF DECK (in.)
—	EXISTING PIPE TO REMAIN
—	NEW PIPE INSTALLATION
(H)	CEILING HEIGHT (ft.-in.)

**SPRINKLER INFORMATION**

TOTAL HEADS THIS JOB: 29	FINISH	TEMP	K	NPT	SIN	MFG.	MODEL#
10 PENDENT	BRASS	155	4.9	1/2"	R3516	RELIABLE	F1RES49
9 CONCEALED PEND.	WHITE	155	4.9	1/2"	GL4906	GLOBE	GL4906
10 SIDEWALL	WHITE	155	4.4	1/2"	R3531	RELIABLE	F1RES44

**LOT 5 ORCHARD GROVE**  
5 COURTLAND COURT  
CUMBERLAND, ME

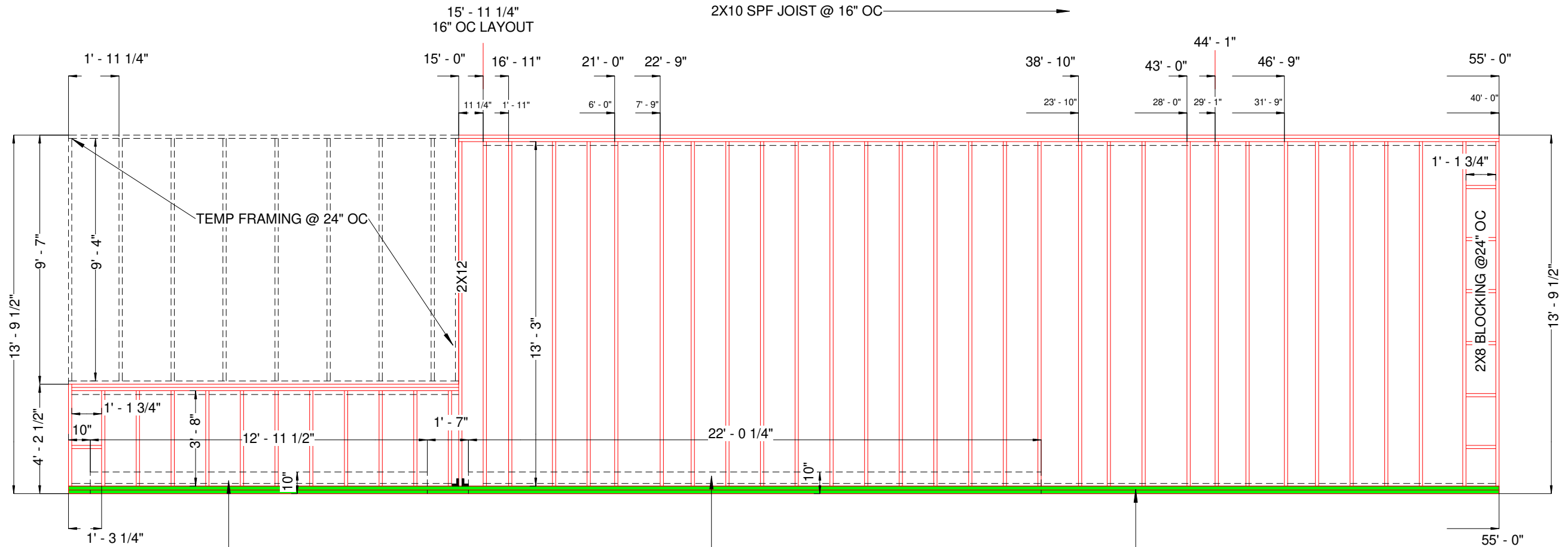
**CONTRACT WITH/PREFERRED BUILDING SYSTEMS**

NO.	DATE	REVISIONS

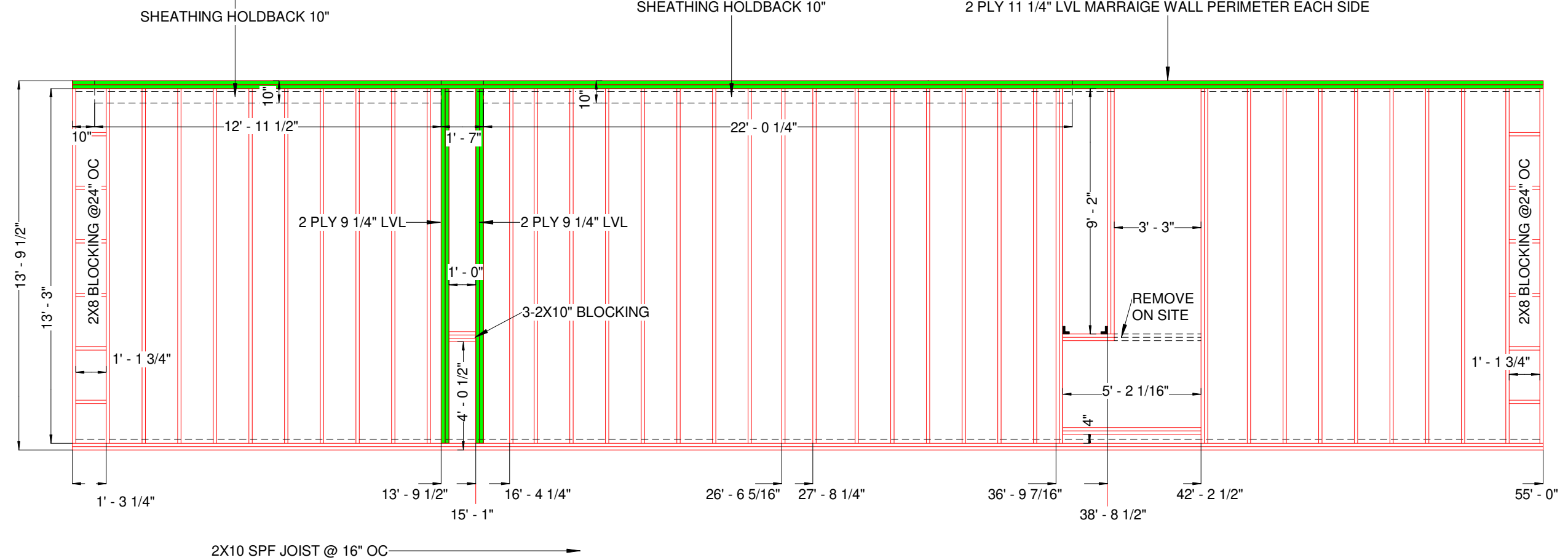
SCALE: 1/4"=1'-0"  
DRAWN BY: TJD  
DATE: 8/3/20  
JOB NUMBER: 20077  
SHEET NUMBER: FP1 of 1



BOX A



BOX B



DECK (A & B)  
 2X12 SPF PERIMETER  
 2 PLY 11 1/4" LVL MARRIAGE WALL PERIMETER  
 2X10 SPF JOIST @ 16" OC.  
 JOIST HANGERS WHERE SHOWN

PRODUCTION PRINTS  
 THESE PLANS ARE INDICATIVE  
 OF THE 3RD PARTY APPROVED  
 PLANS

DECK PLAN BOX A & B

CLARK AND SON

8/18/2020  
2:20:44 PM

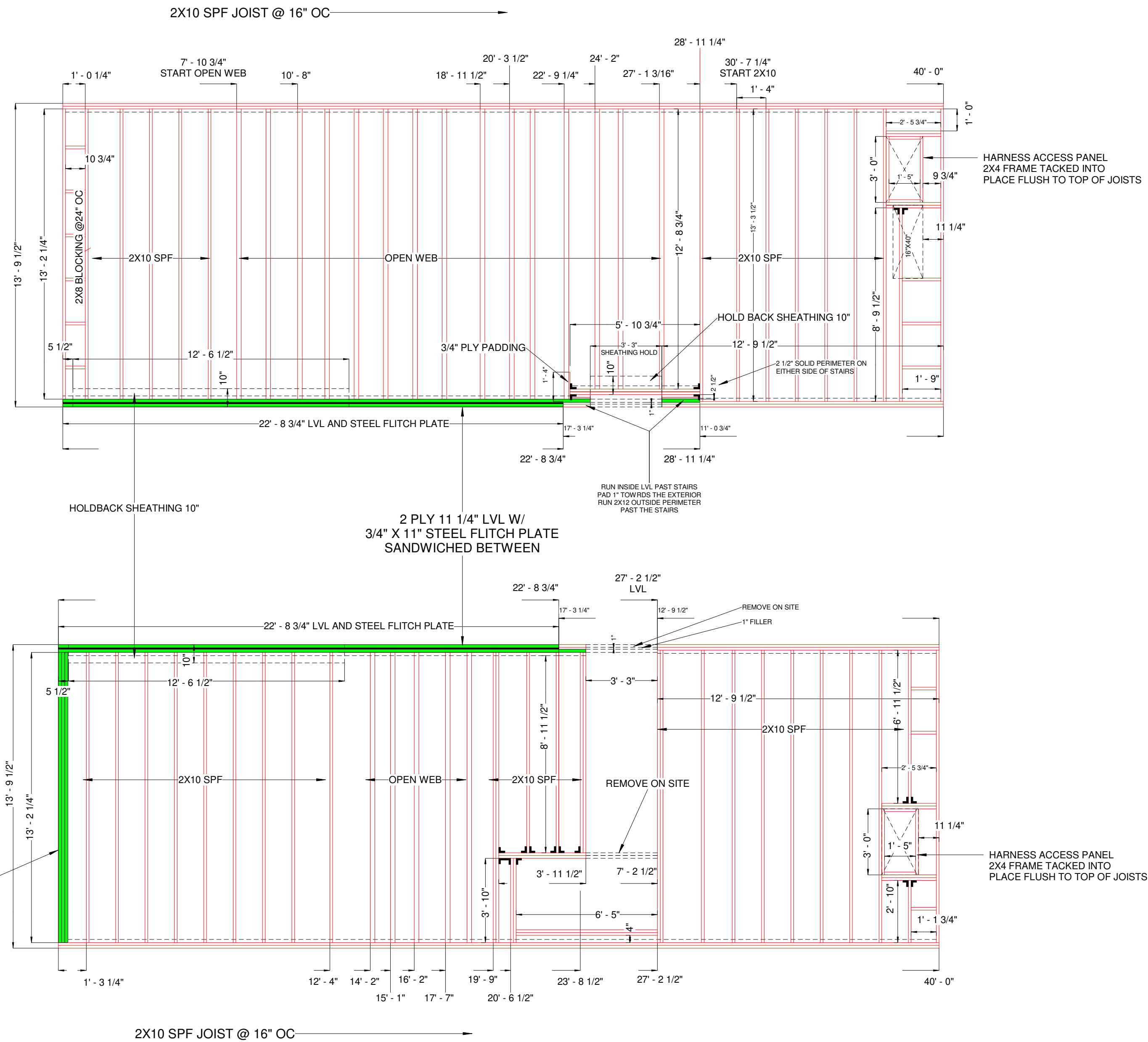
NEH LRL  
1/4" = 1'-0"

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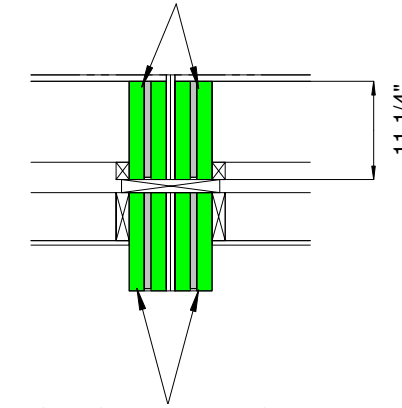
DP1

BOX C

BOX D



2ND FLOOR DECK MARRIAGE WALL PERIMETER @ 22'-8 3/4" EACH SIDE  
 3/4" X 11" STEEL FLITCH PLATE SANDWICHED  
 BETWEEN 2 PLY 11 1/4" LVL AND BOLTED TOGETHER



1ST FLOOR CEILING DROPPED BEAM @ 22'-8 3/4" EACH SIDE  
 LIFTED INTO PLACE  
 3/4" X 11" STEEL FLITCH PLATE SANDWICHED  
 BETWEEN 2 PLY 11 1/4" LVL AND BOLTED TOGETHER  
 PADDING AND SR BY BUILDER

HARNES ACCESS PANEL  
 2X4 FRAME TACKED INTO  
 PLACE FLUSH TO TOP OF JOISTS

RUN INSIDE LVL PAST STAIRS  
 PAD 1" TOWARDS THE EXTERIOR  
 RUN 2X12 OUTSIDE PERIMETER  
 PAST THE STAIRS

DECK C & D  
 2X12 SPF PERIMETER  
 2-2X12 SPF MARRIAGE WALL PERIMETER  
 2 PLY 11 1/4" LVL W/ 3/4" X 11" STEEL FLITCH PLATE WHERE SHOWN  
 2X10 SPF JOIST @ 16" OC.  
 JOIST HANGERS WHERE SHOWN

PRODUCTION PRINTS  
 THESE PLANS ARE INDICATIVE  
 OF THE 3RD PARTY APPROVED  
 PLANS

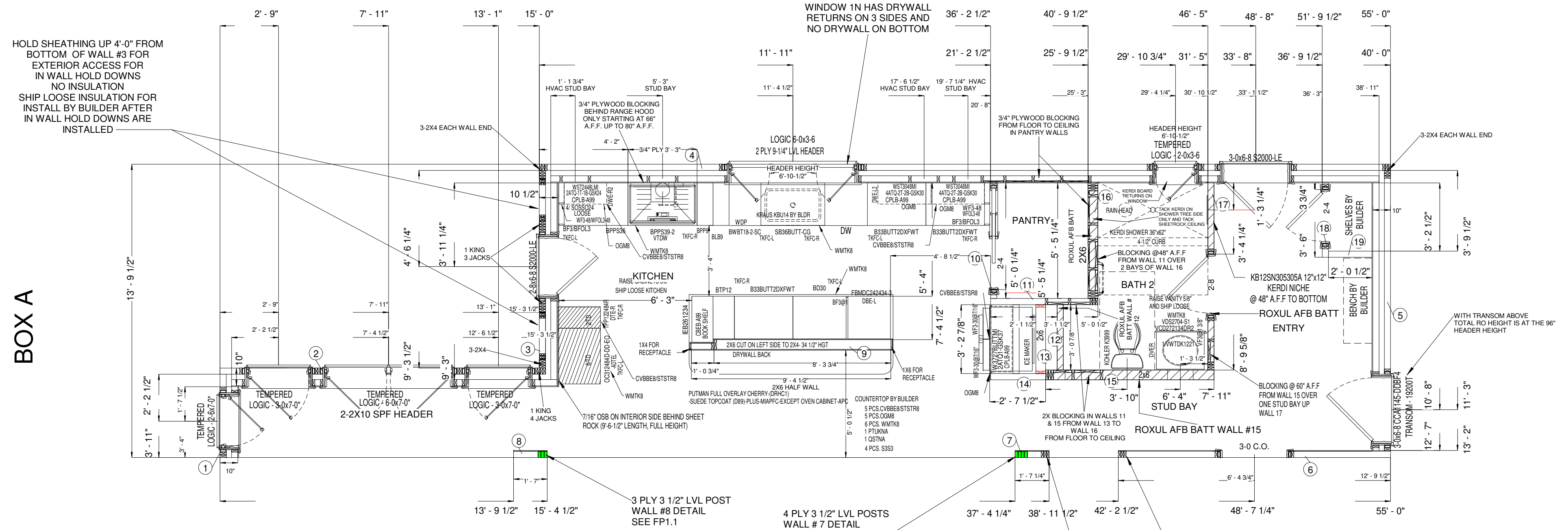
DECK PLAN BOX C & D  
 CLARK AND SON

8/24/2020  
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 As indicated

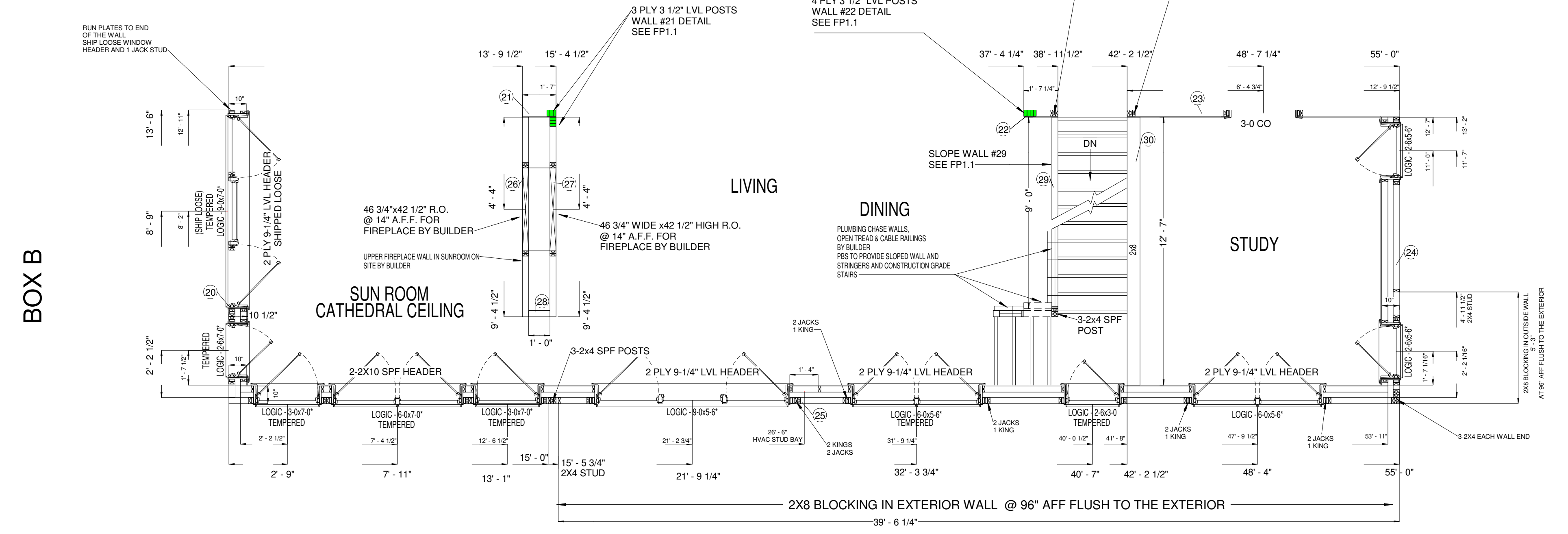
Sheet Number:

DP2

**WALL HEIGHT 9'-0"  
WINDOW HEADER HEIGHT 8'-0" UNLESS NOTED OTHERWISE**



**WALL HEIGHT 9'-0"  
WINDOW HEADER HEIGHT 8'-0" UNLESS NOTED OTHERWISE**



**BOX B**

**BOX A**

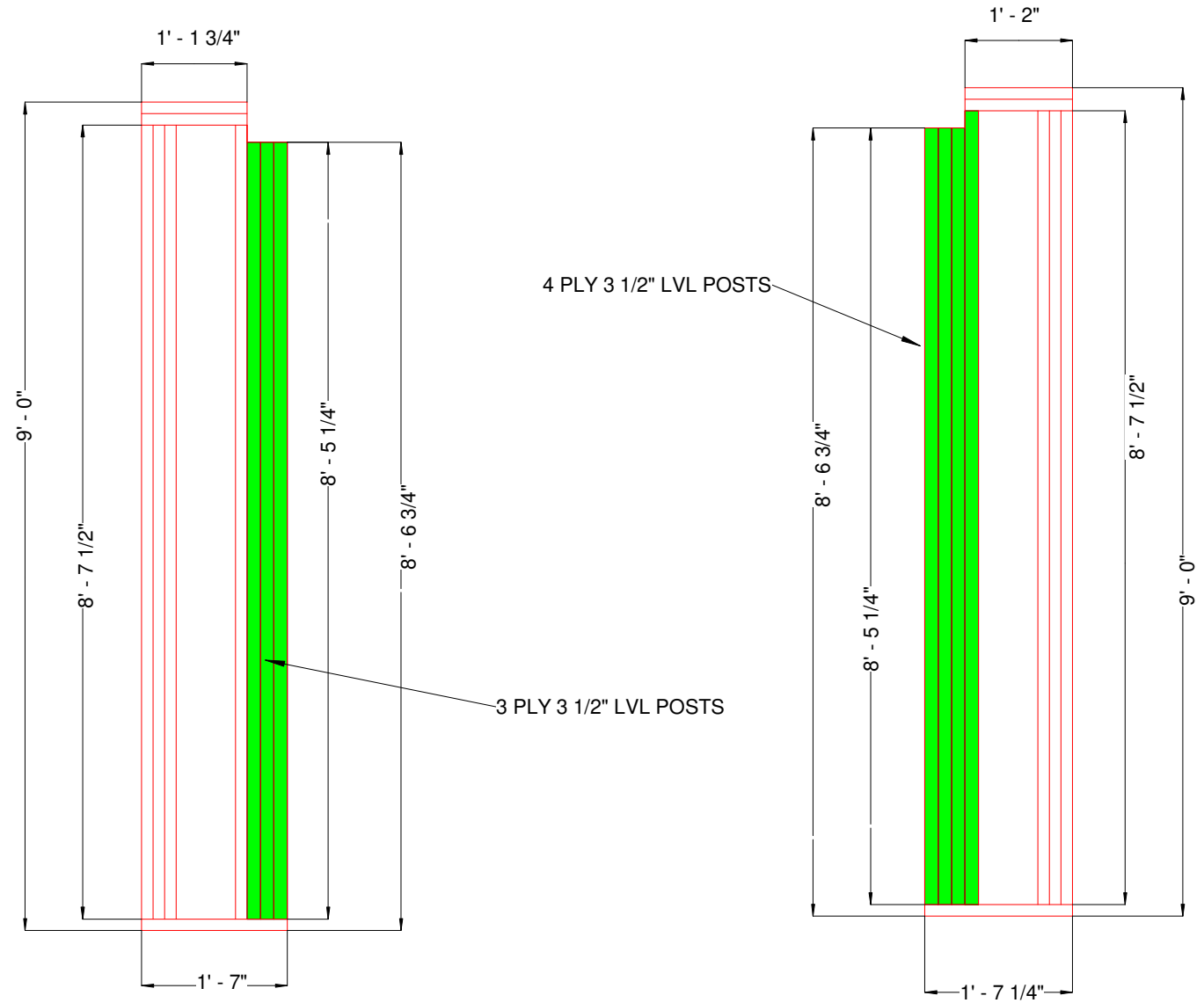
PRODUCTION PRINTS  
THESE PLANS ARE INDICATIVE  
OF THE 3RD PARTY APPROVED  
PLANS.

FLOOR PLAN BOX A & B  
CLARK AND SON

8/18/2020  
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NEH  
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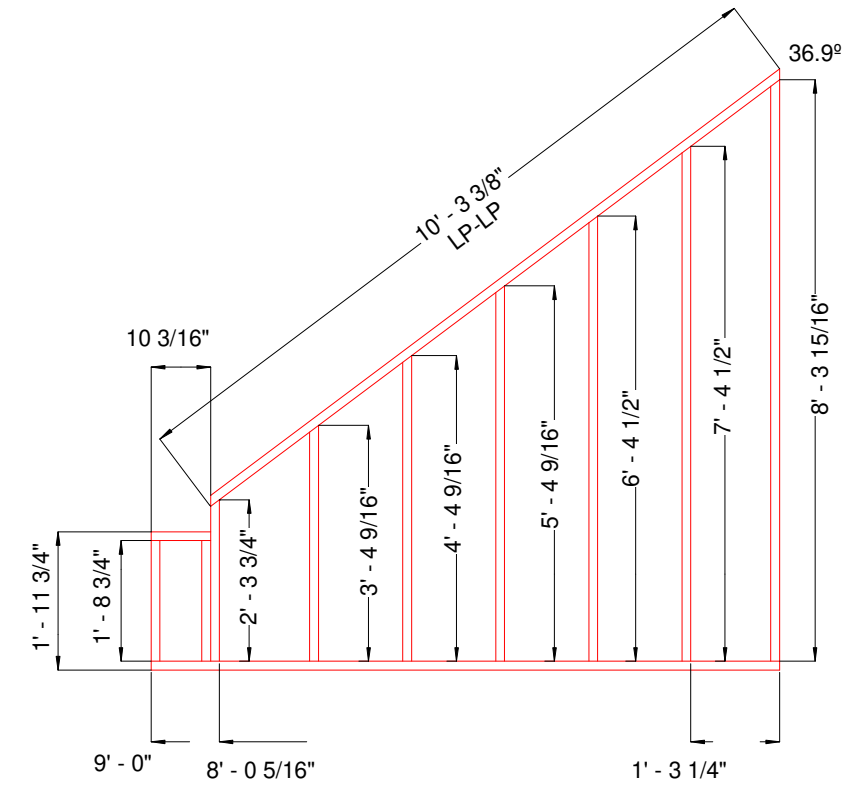
FP1



WALLS #8 & #21  
2X4 FRAMING

4 PLY 3 1/2" LVL POSTS

3 PLY 3 1/2" LVL POSTS



SLOPED WALL #29  
2X4 @ 16" OC

PRODUCTION PRINTS  
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OF THE 3RD PARTY APPROVED  
PLANS

WALL DETAILS  
CLARK AND SON

8/18/2020  
2:46:59 PM

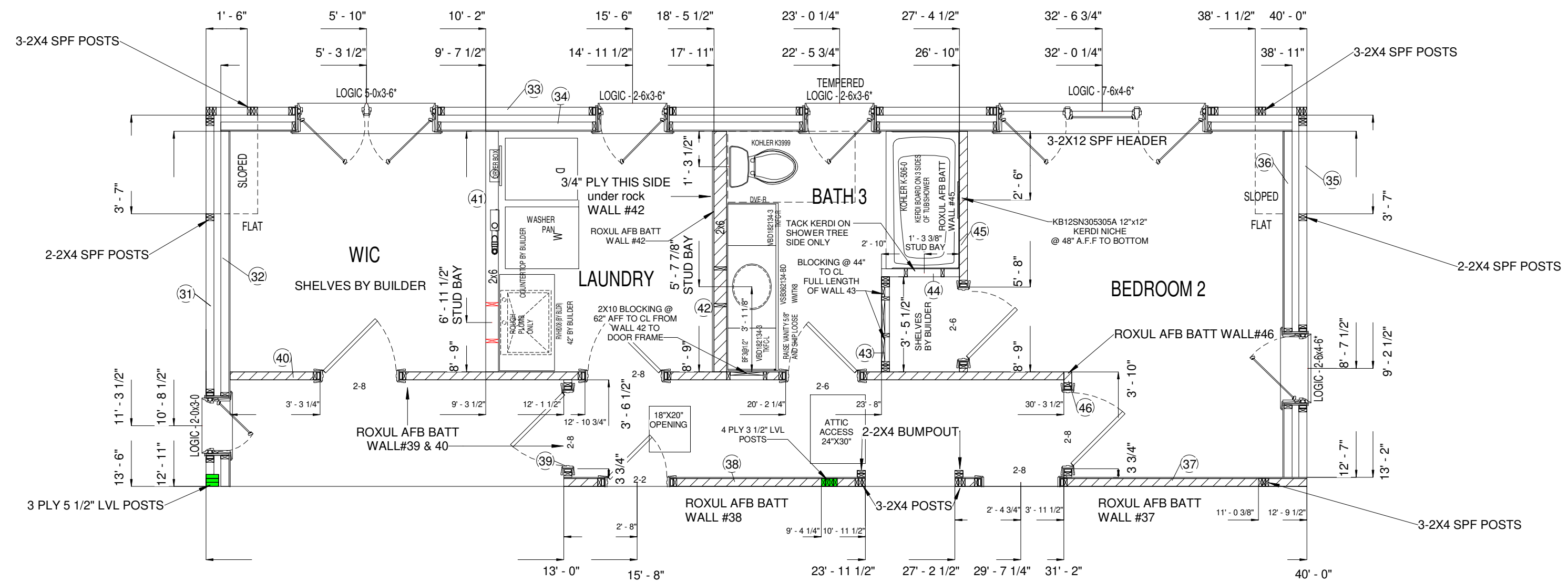
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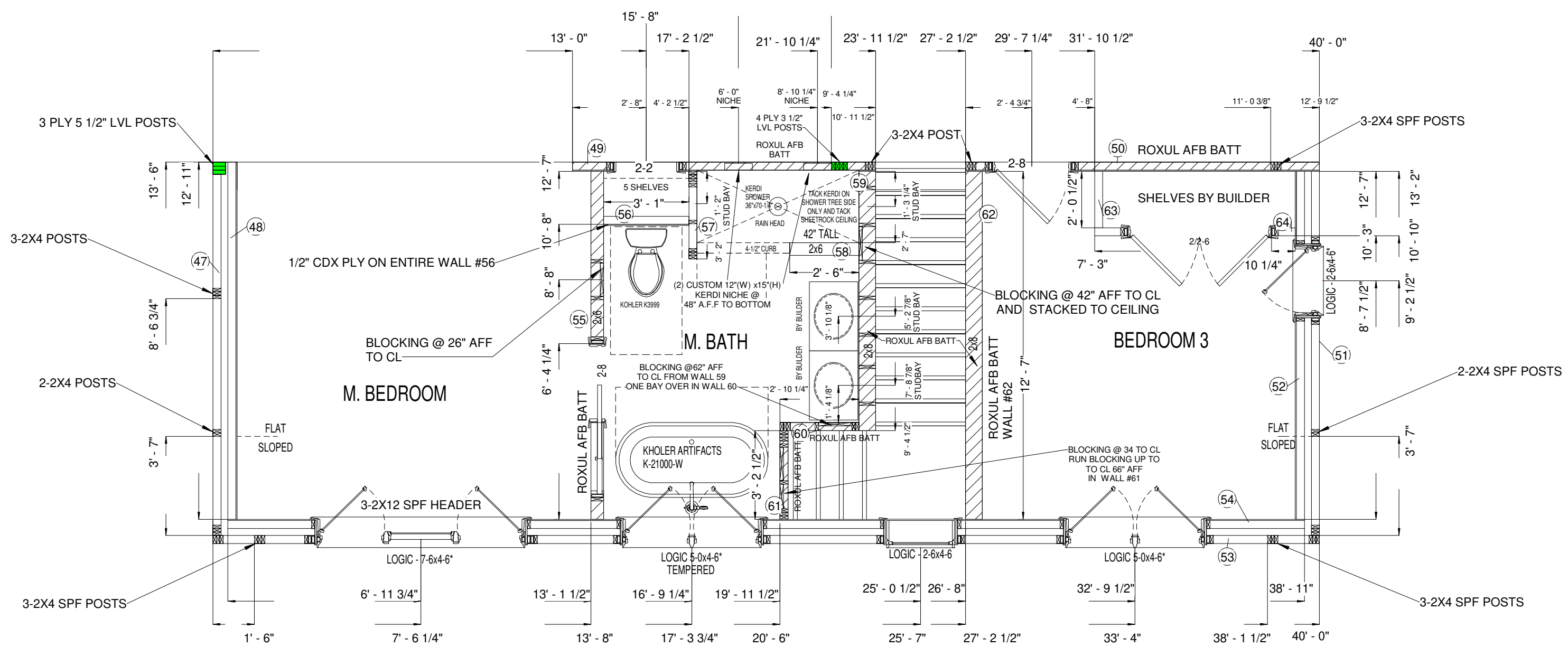
FP1.1

SEE FP2.1 & 2.2 FOR WALLS  
31, 32, 33, 34, 35, 36, 47, 48, 51, 52, 53, 54

BOX C



BOX D



WALL HEIGHT 8'  
WINDOW HEADER HEIGHT 6' 10 1/2"

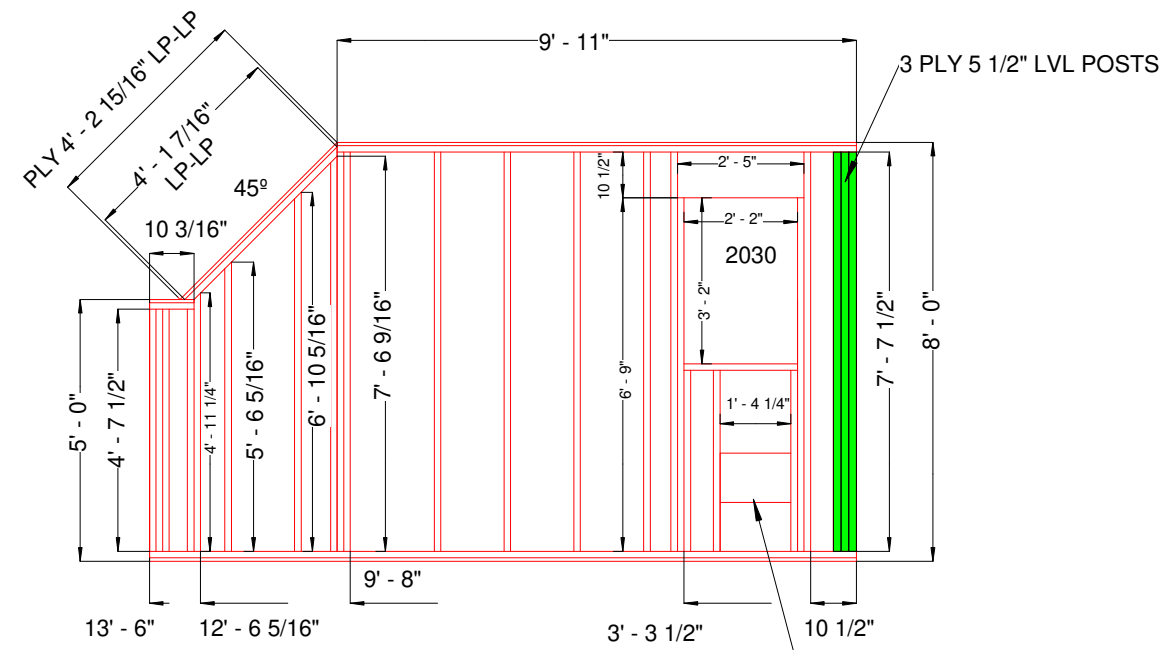
PRODUCTION PRINTS  
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OF THE 3RD PARTY APPROVED  
PLANS

FLOOR PLAN BOX C & D  
CLARK AND SON

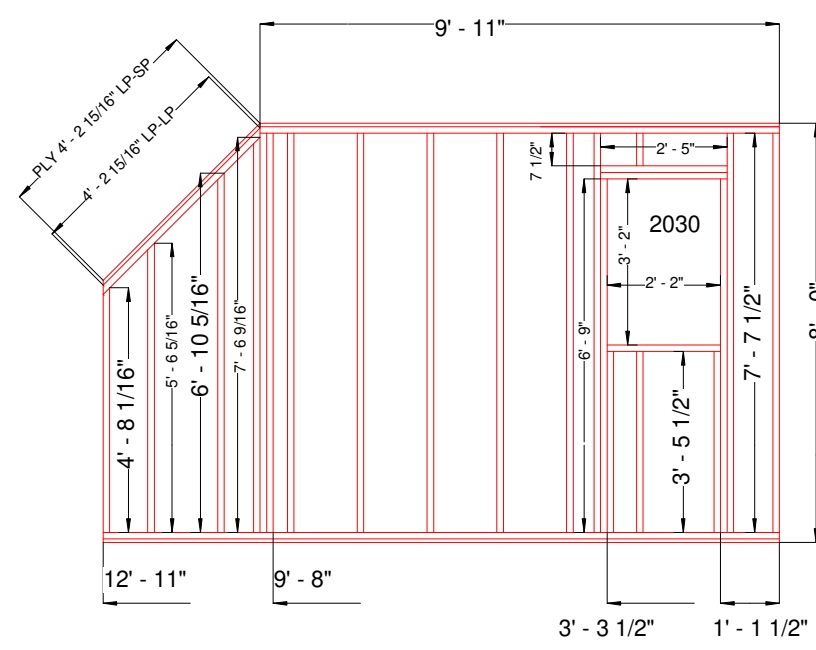
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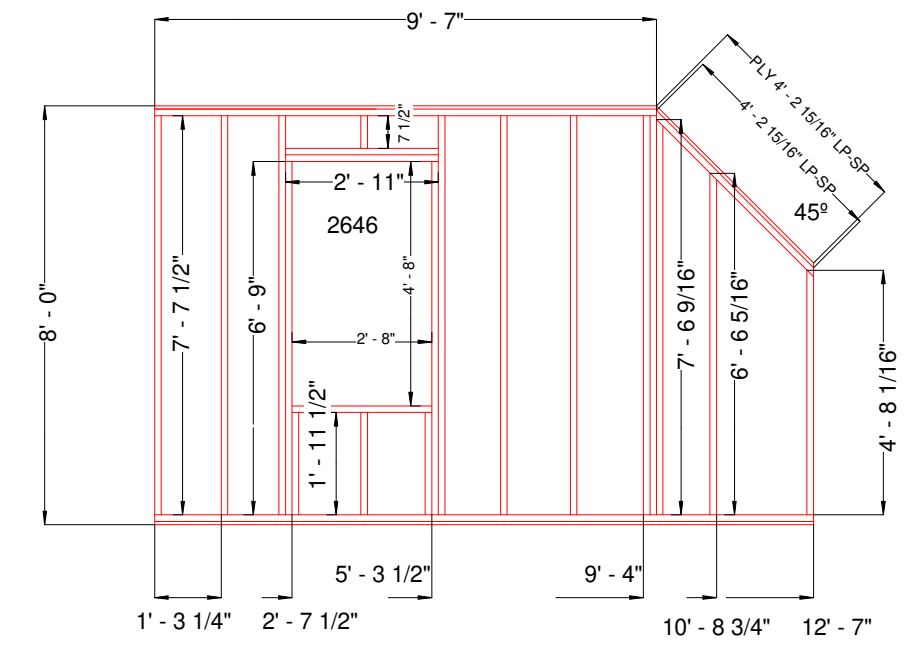
FP2



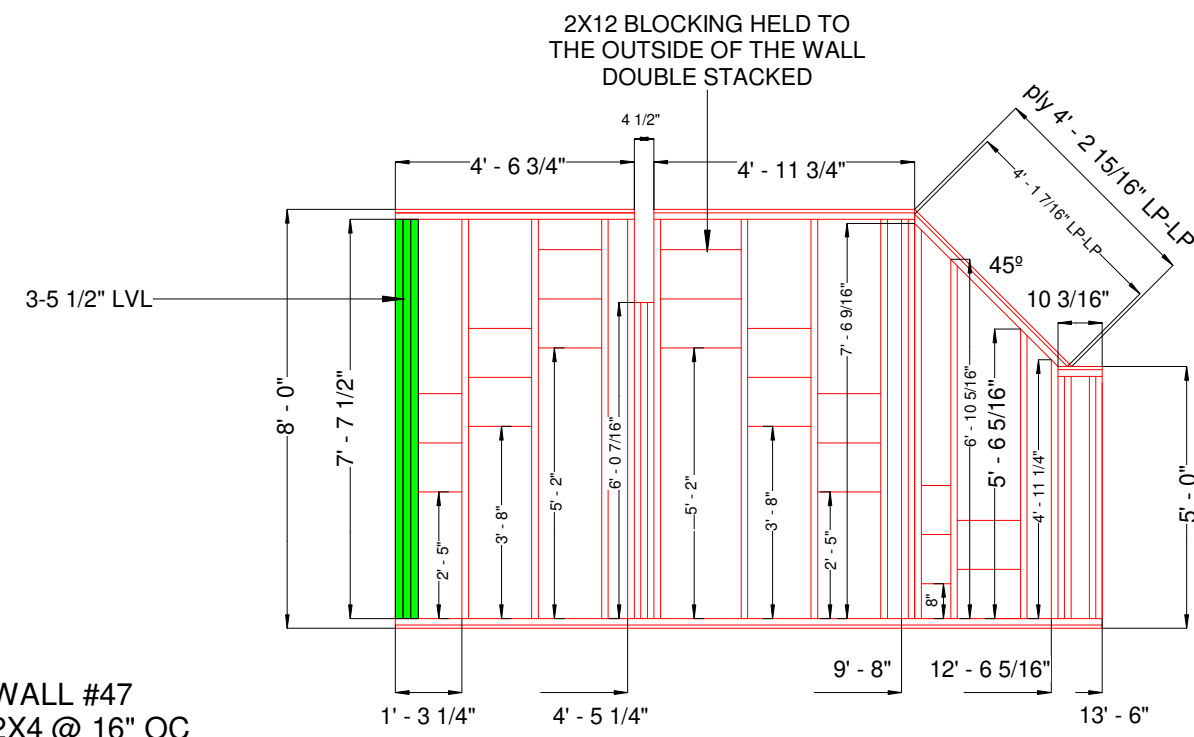
**WALL #31**  
2X4 @ 16" OC  
W/ 3/4" PLY TOP AND BOTTOM  
SHEATH THIS SIDE  
2-2X12 BLOCKING  
STACKED



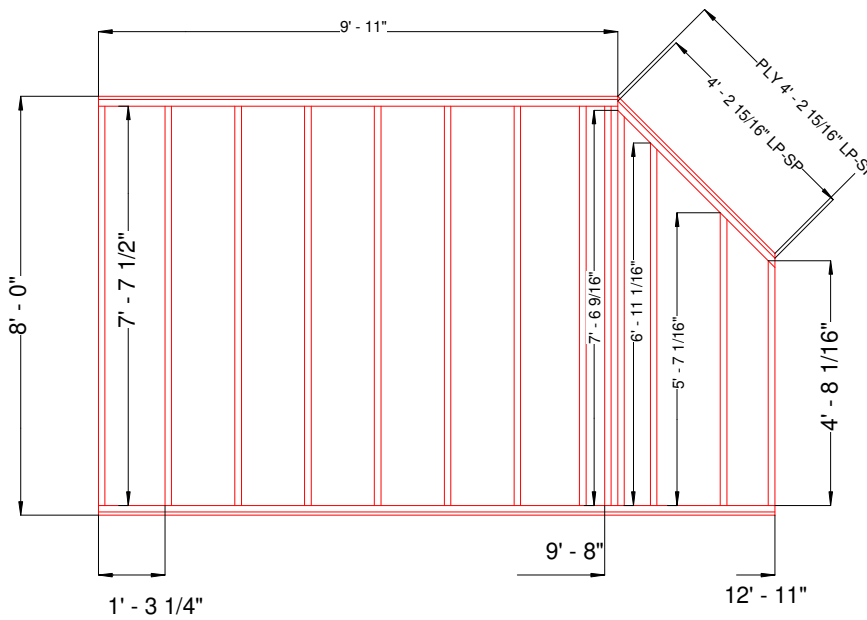
**WALL #32**  
2X4 @ 16" OC  
W/ 3/4" PLY TOP AND BOTTOM  
SHEATH THIS SIDE



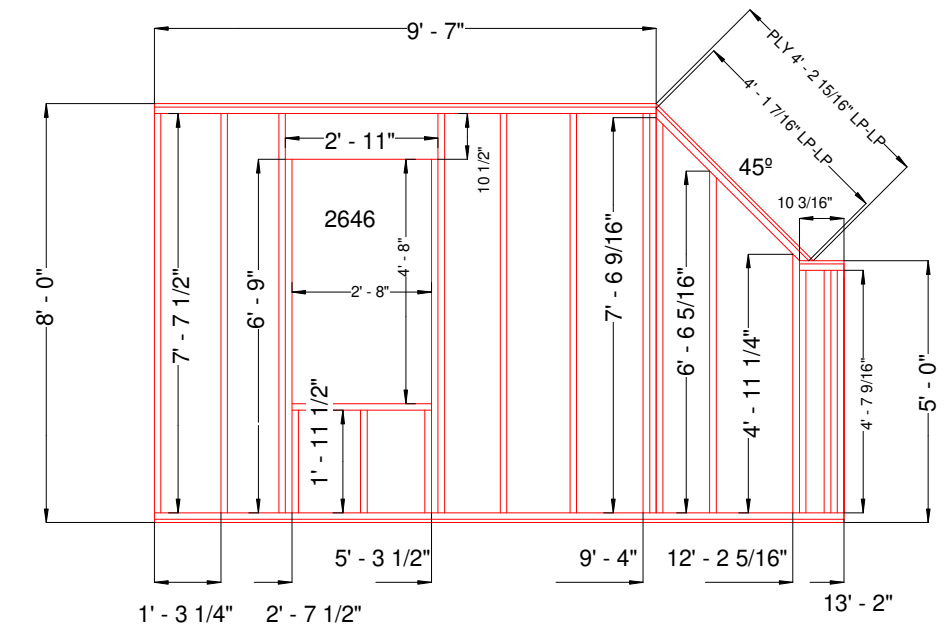
**WALL #36 & #52**  
2X4 @ 16" OC  
W/ 3/4" PLY TOP AND BOTTOM  
SHEATH THIS SIDE OF WALL 36  
SHEATH OTHER SIDE OF WALL 52



**WALL #47**  
2X4 @ 16" OC  
W/ 3/4" PLY TOP AND BOTTOM  
SHEATH THIS SIDE



**WALL #48**  
2X4 @ 16" OC  
W/ 3/4" PLY TOP AND BOTTOM  
SHEATH THIS SIDE



**WALL #35 & #51**  
2X4 @ 16" OC  
W/ 3/4" PLY TOP AND BOTTOM  
SHEATH THIS SIDE OF WALL 35  
SHEATH OTHER SIDE OF WALL 51

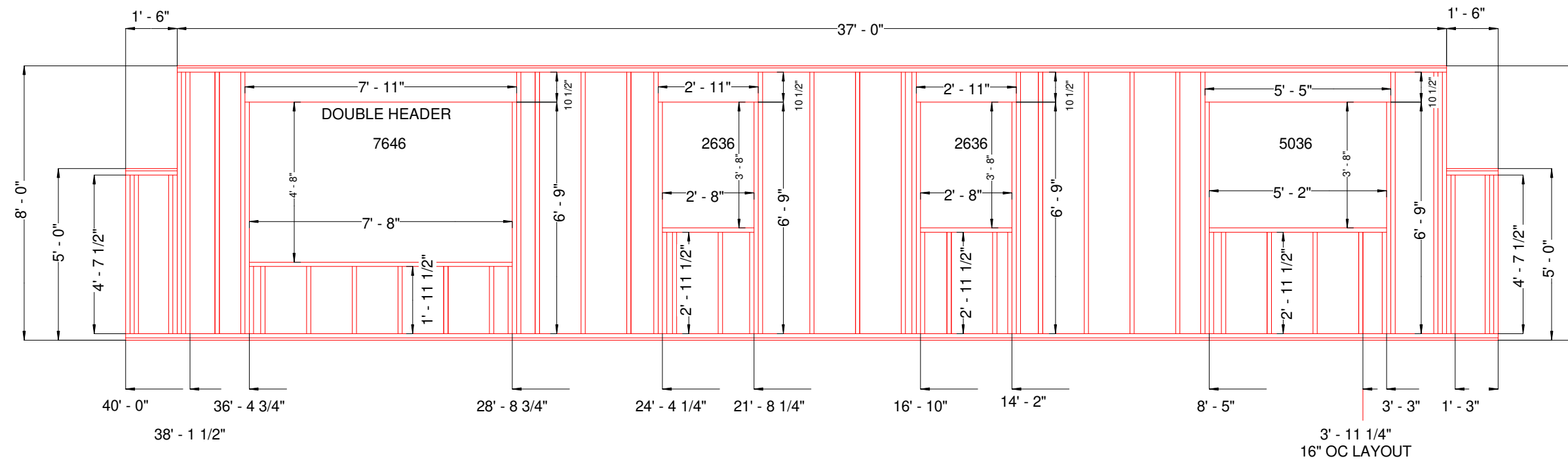
PRODUCTION PRINTS  
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OF THE 3RD PARTY APPROVED  
PLANS

WALL DETAILS  
CLARK AND SON

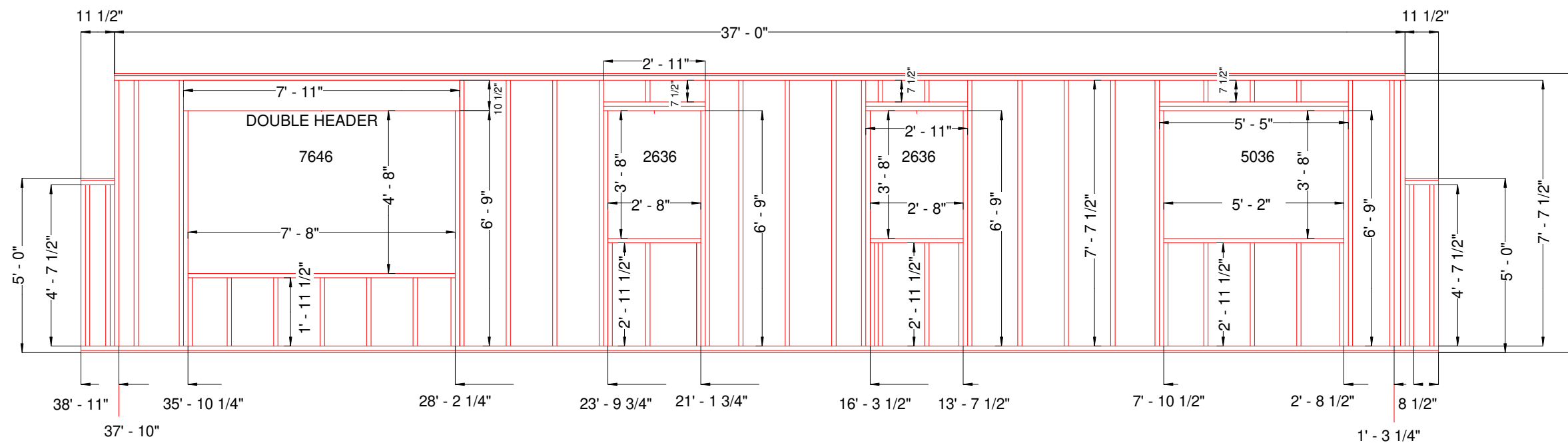
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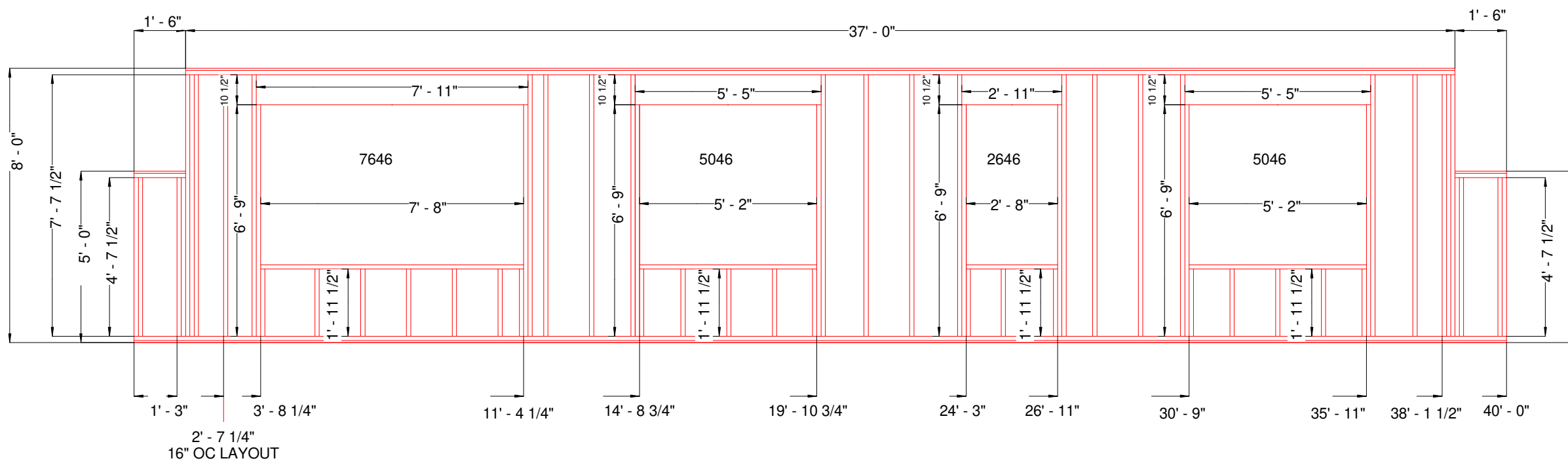
FP2.1



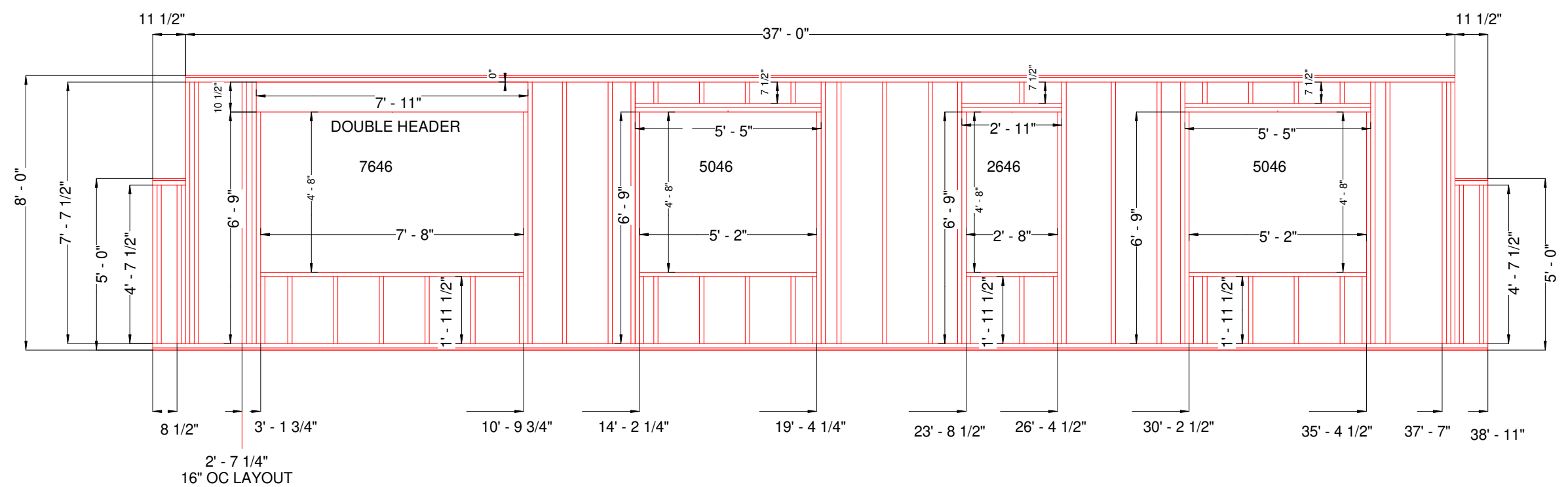
WALL #33 2X4 @ 16" OC  
W/ 3/4" PLY TOP AND BOTTOM  
SHEATH THIS SIDE



WALL #34 2X4 @ 16" OC  
W/ 3/4" PLY TOP AND BOTTOM  
SHEATH THIS SIDE



WALL #53 2X4 @ 16" OC  
W/ 3/4" PLY TOP AND BOTTOM



WALL #54 2X4 @ 16" OC  
W/ 3/4" PLY TOP AND BOTTOM

PRODUCTION PRINTS  
THESE PLANS ARE INDICATIVE  
OF THE 3RD PARTY APPROVED  
PLANS

WALL DETAILS  
CLARK AND SON

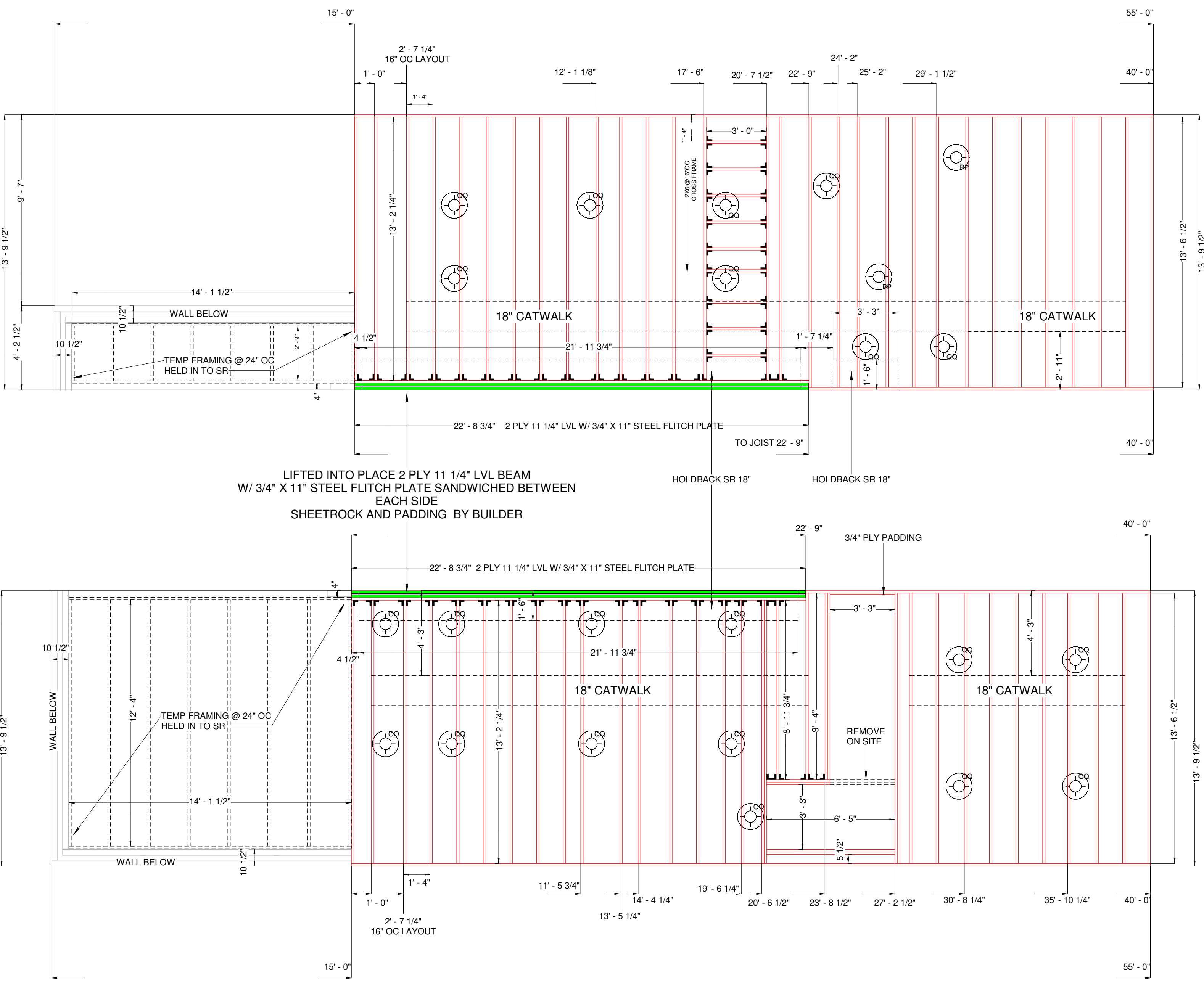
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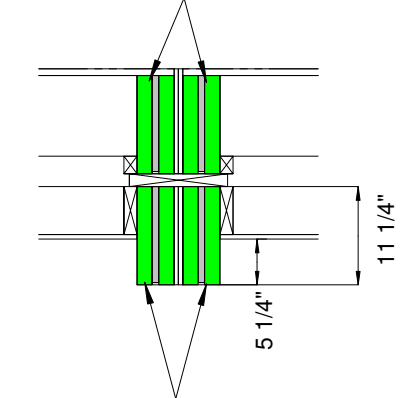
FP2.2

BOX A

BOX B



2ND FLOOR DECK MARRIAGE WALL PERIMETER @ 22'-8 3/4" EACH SIDE  
 3/4" X 11" STEEL FLITCH PLATE SANDWICHED  
 BETWEEN 2 PLY 11 1/4" LVL AND BOLTED TOGETHER



1ST FLOOR CEILING DROPPED BEAM @ 22'-8 3/4" EACH SIDE  
 LIFTED INTO PLACE  
 3/4" X 11" STEEL FLITCH PLATE SANDWICHED  
 BETWEEN 2 PLY 11 1/4" LVL AND BOLTED TOGETHER  
 PADDING AND SR BY BUILDER

LIFTED INTO PLACE 2 PLY 11 1/4" LVL BEAM  
 W/ 3/4" X 11" STEEL FLITCH PLATE SANDWICHED BETWEEN  
 EACH SIDE  
 SHEETROCK AND PADDING BY BUILDER

CEILINGS A & B  
 2X6 SPF PERIMETERS  
 2X6 JOISTS @ 16" OC  
 2 PLY 11 1/4" LVL W/ 3/4" X 11" STEEL FLITCH PLATE WHERE SHOWN  
 JOIST HANGERS WHERE SHOWN

PRODUCTION PRINTS  
 THESE PLANS ARE INDICATIVE  
 OF THE 3RD PARTY APPROVED  
 PLANS

CEILING PLAN A & B  
 CLARK AND SON

8/24/2020  
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 As indicated

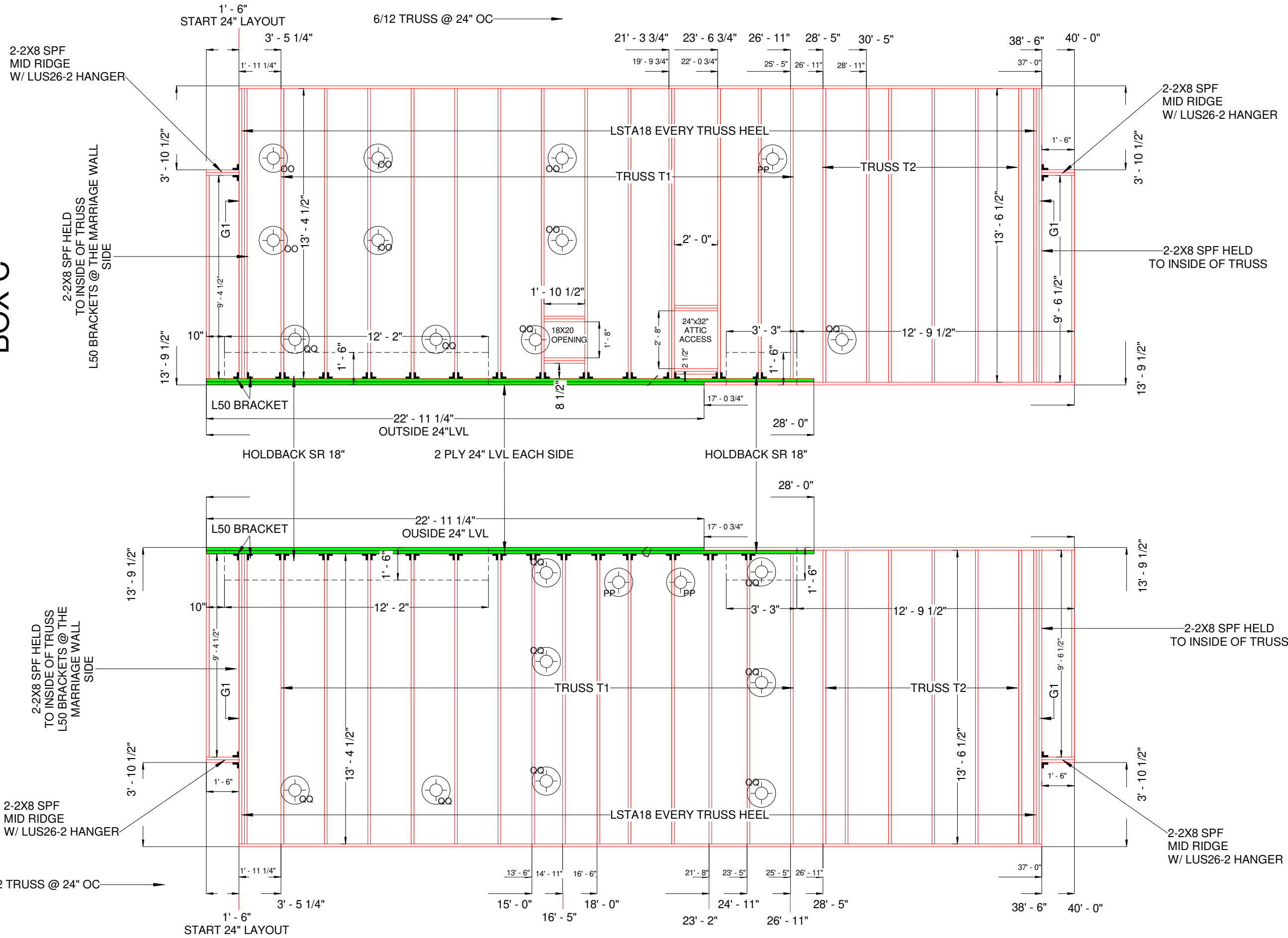
Sheet Number:

CPI



# BOX C

# BOX D



2-2X8 SPF MID RIDGE W/ LUS26-2 HANGER

2-2X8 SPF HELD TO INSIDE OF TRUSS

2-2X8 SPF HELD TO INSIDE OF TRUSS

2-2X8 SPF HELD TO INSIDE OF TRUSS L50 BRACKETS @ THE MARRIAGE WALL SIDE

2-2X8 SPF HELD TO INSIDE OF TRUSS L50 BRACKETS @ THE MARRIAGE WALL SIDE

CEILING C & D

2X6 SPF PERIMETER

2 PLY LVL MARRIAGE WALL PERIMETER WHERE SHOWN

2X10 SPF MARRIAGE WALL PERIMETER

6/12 TRUSS @ 24" OC

JOIST HANGERS WHERE SHOWN

PRODUCTION PRINTS  
 THESE PLANS ARE INDICATIVE  
 OF THE 3RD PARTY APPROVED PLANS

CEILING PLAN C & D

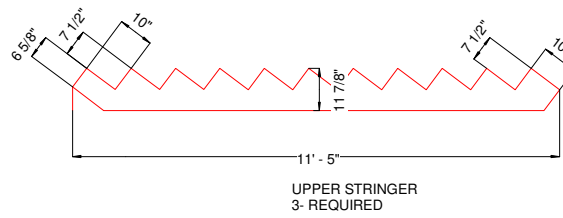
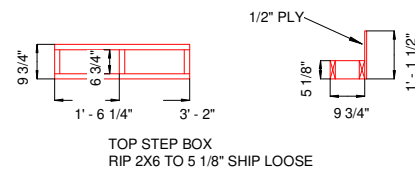
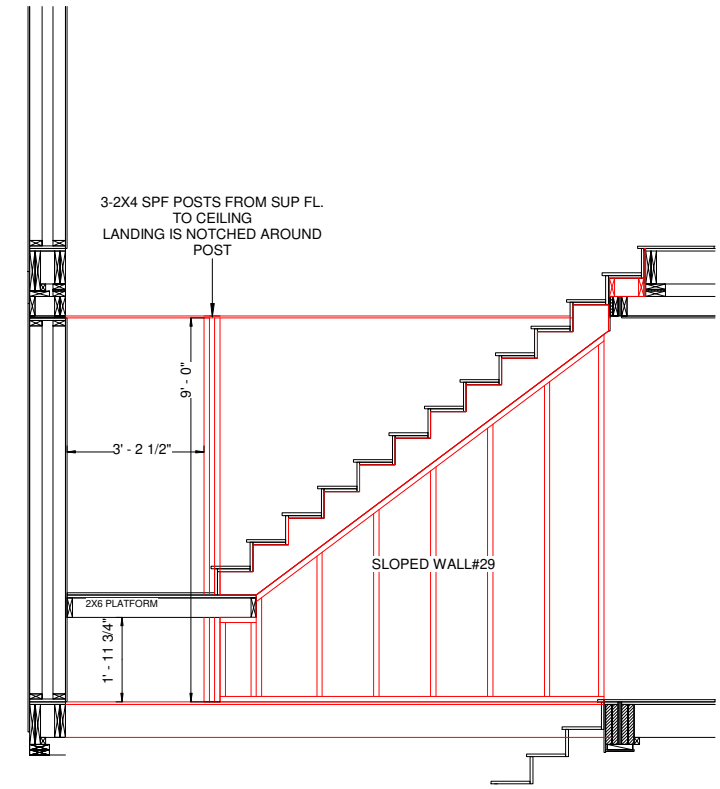
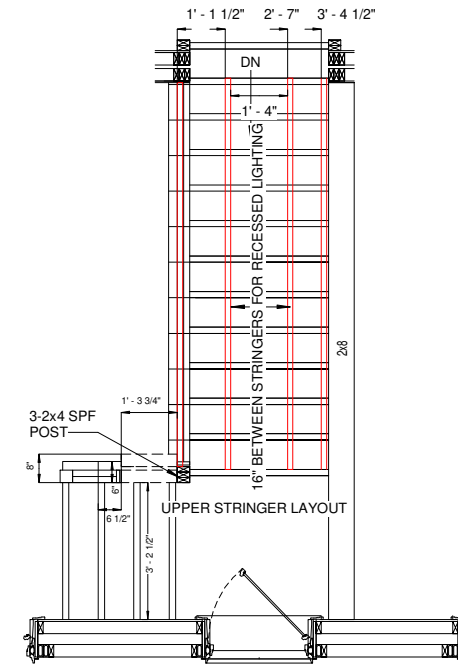
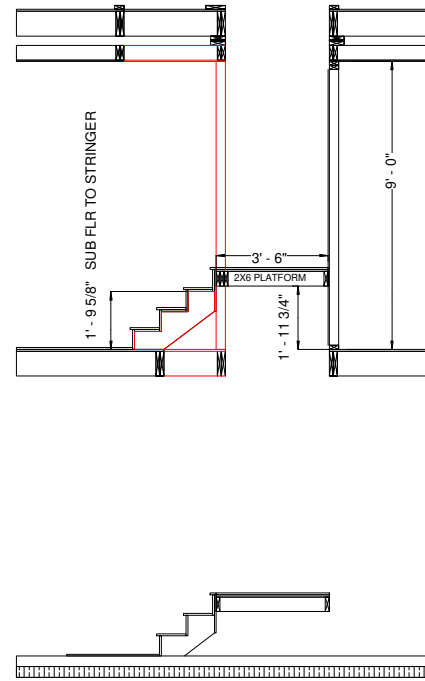
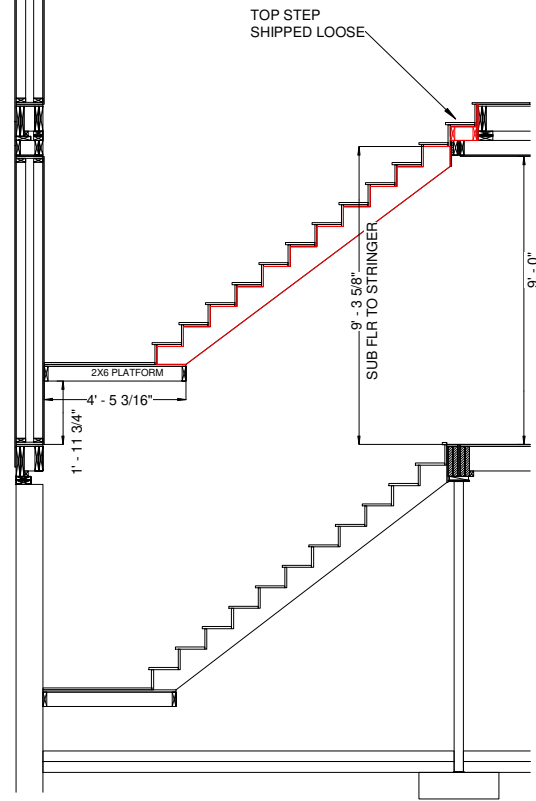
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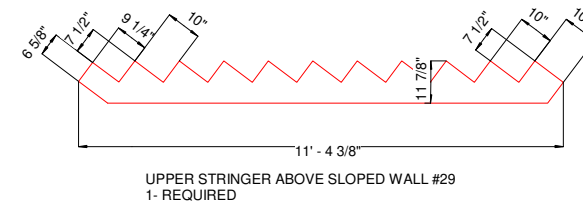
NEH  
 1/4" = 1'-0"

Sheet Number:  
**CP2**

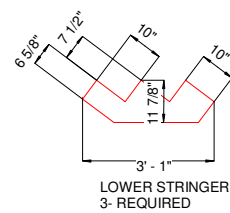
CONSTRUCTION GRADE STAIRS  
 5/8" BOTTOM OFFSET  
 5/8" PLATFORM OFFSET  
 5/8" TOP OFFSET  
 FINISHED TREADS AND SKIRT BOARDS BY BUILDER



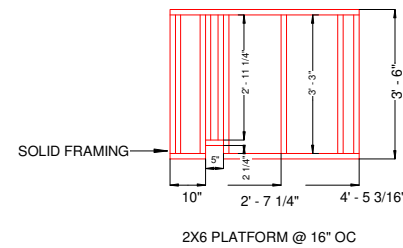
UPPER STRINGER  
 3- REQUIRED



UPPER STRINGER ABOVE SLOPED WALL #29  
 1- REQUIRED



LOWER STRINGER  
 3- REQUIRED



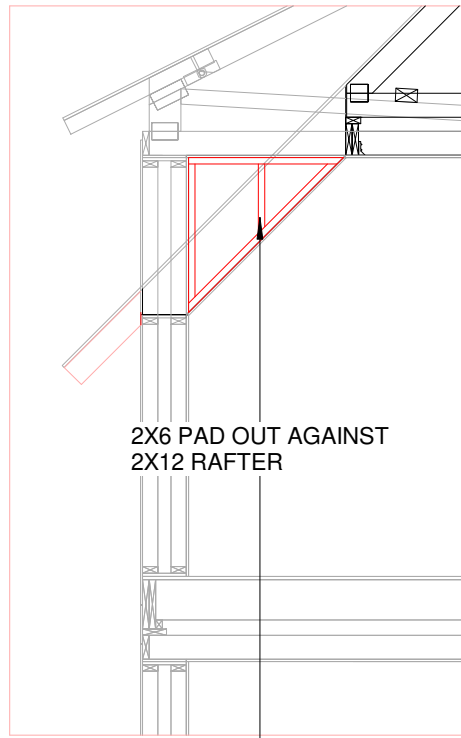
PRODUCTION PRINT  
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STAIR DETAILS  
 CLARK AND SON

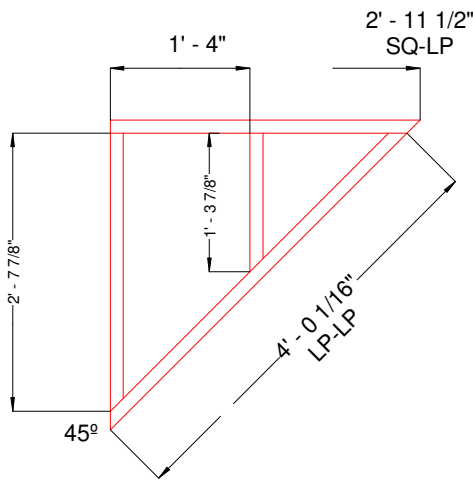
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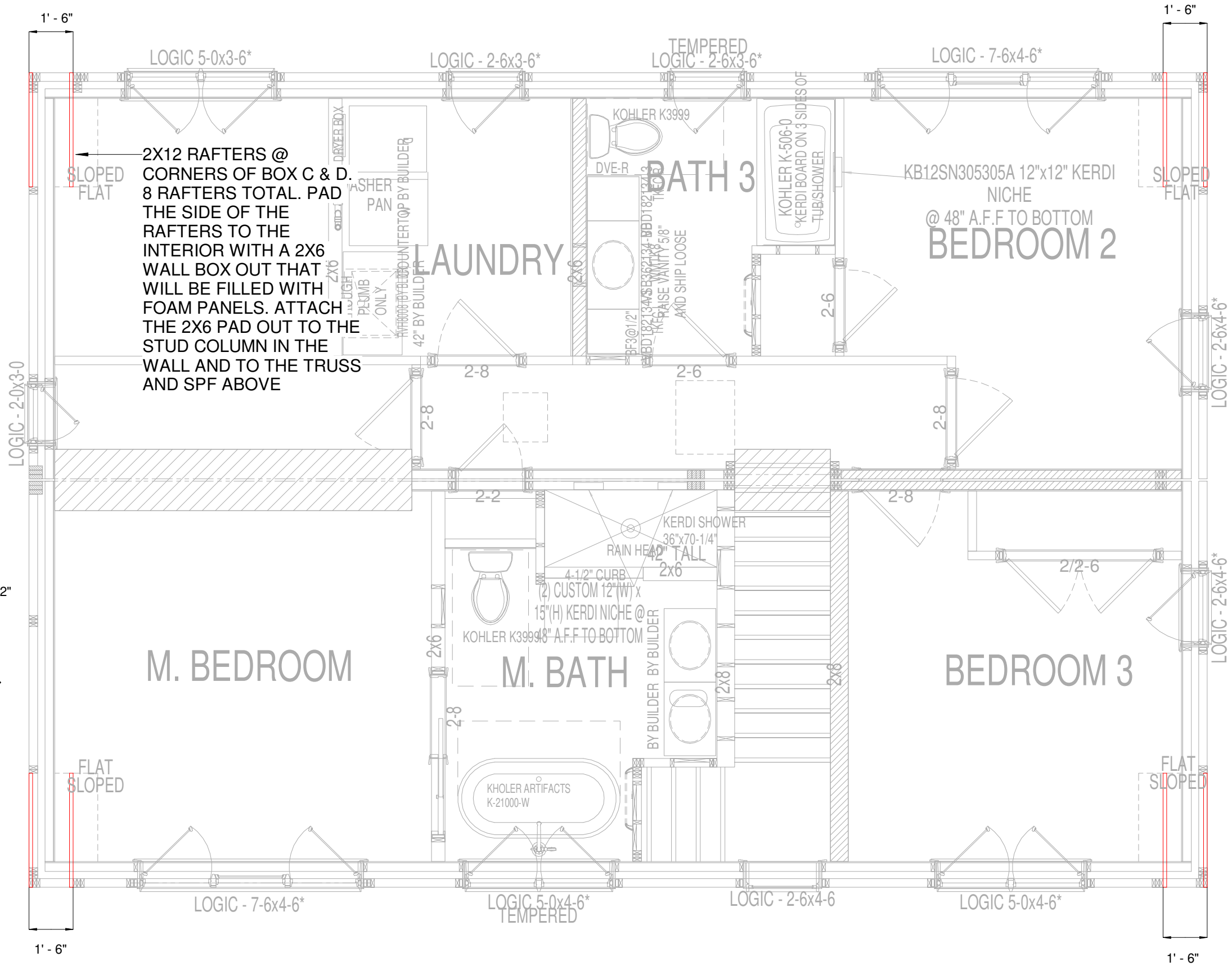
SP1.1



2X6 PAD OUT AGAINST  
2X12 RAFTER



2X6 FILL IN WALL  
FILLED WITH FOAM  
4- REQUIRED  
SHIP LOOSE



2X12 RAFTERS @  
CORNERS OF BOX C & D.  
8 RAFTERS TOTAL. PAD  
THE SIDE OF THE  
RAFTERS TO THE  
INTERIOR WITH A 2X6  
WALL BOX OUT THAT  
WILL BE FILLED WITH  
FOAM PANELS. ATTACH  
THE 2X6 PAD OUT TO THE  
STUD COLUMN IN THE  
WALL AND TO THE TRUSS  
AND SPF ABOVE

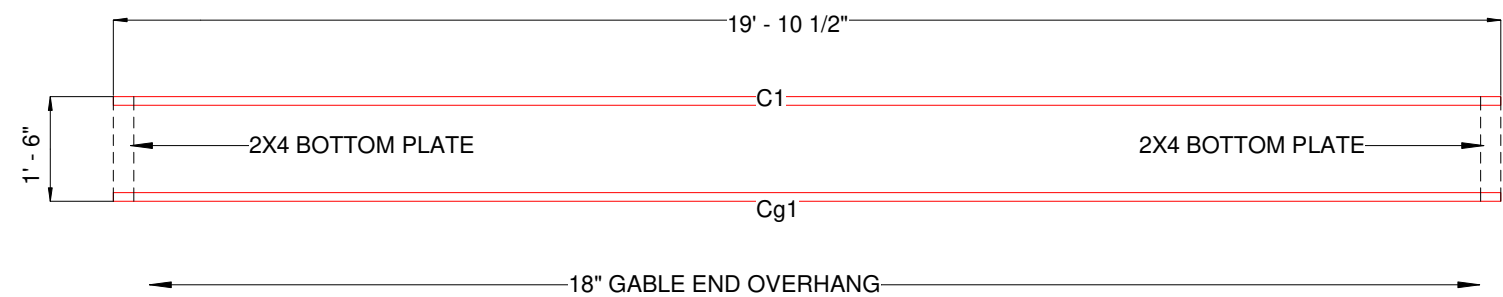
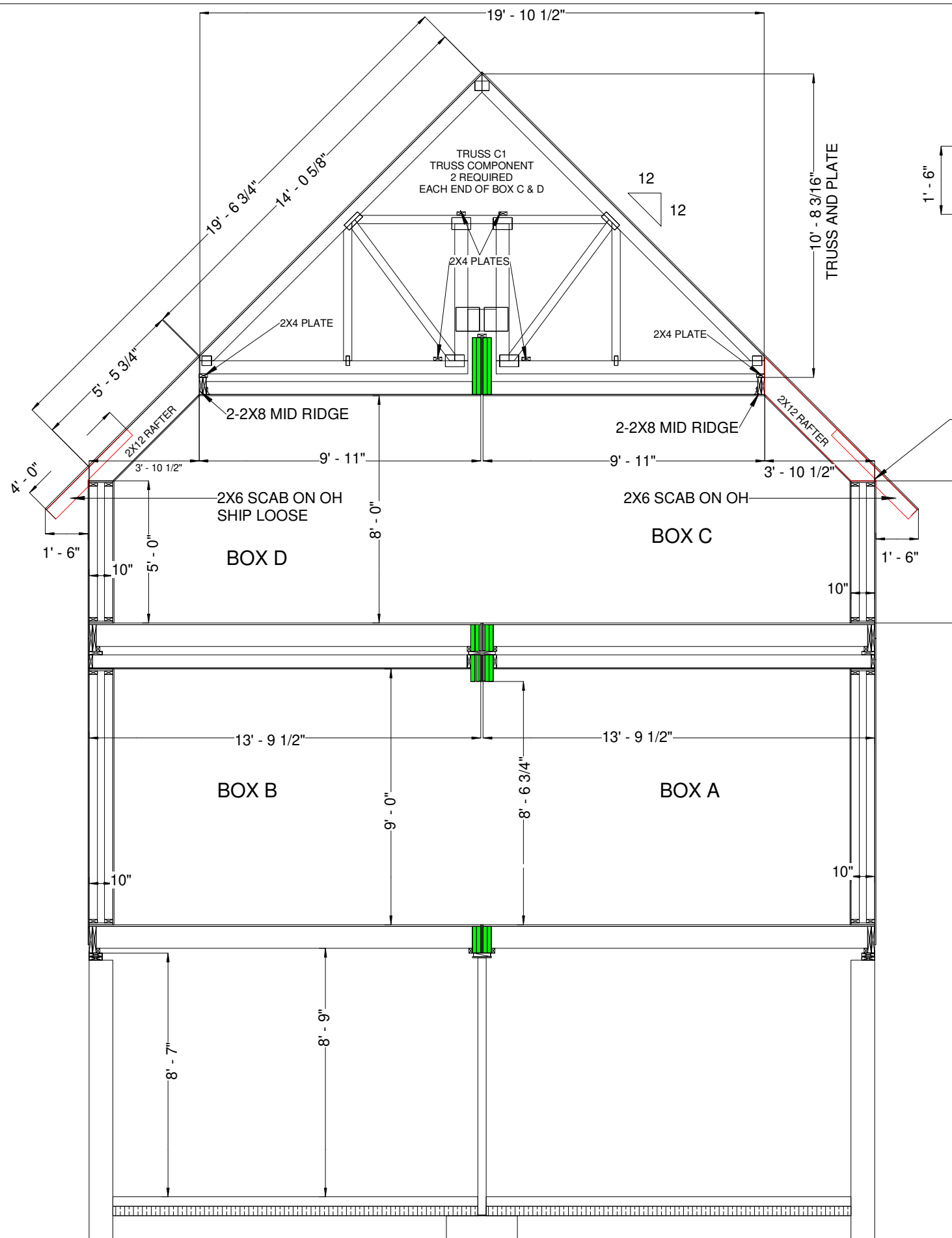
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2ND FLR RAFTER LAYOUT  
CLARK AND SON

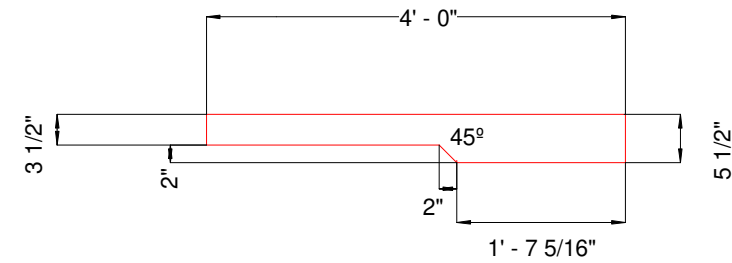
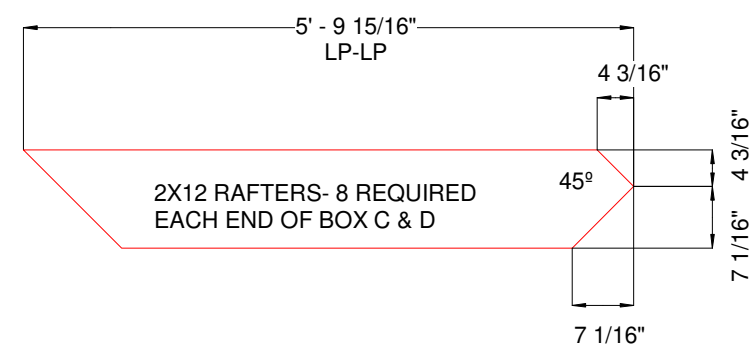
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NEH #11387  
As indicated

Sheet  
Number:  
**SP1.2**



12/12 TRUSS COMPONENT TWO  
REQUIRED  
EACH END OF BOX C & D



2X6 RAFTER SCAB ON 18\"/>

PRODUCTION PRINTS  
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OF THE 3RD PARTY APPROVED  
PLANS

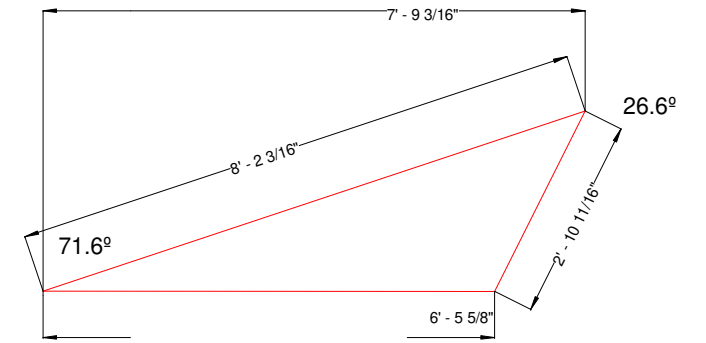
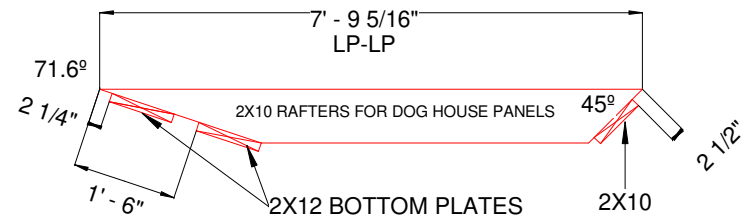
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CLARK AND SON

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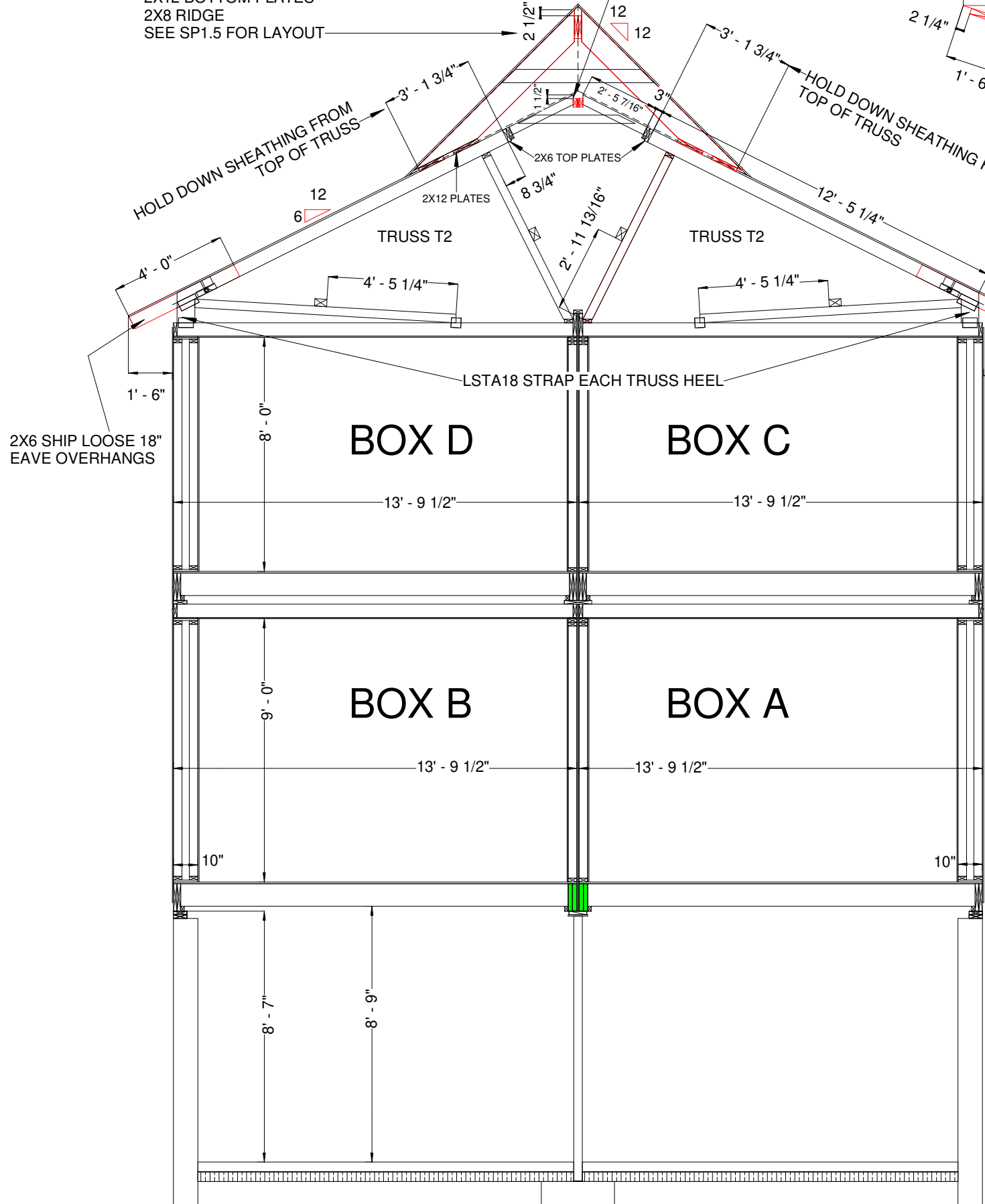
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Number:  
**SP1.3**

2X10 DOG HOUSE RAFTER PANELS  
 2X10 RAFTERS  
 2X12 BOTTOM PLATES  
 2X8 RIDGE  
 SEE SP1.5 FOR LAYOUT

UPPER FLIPS @24"OC  
 WITH 2X4 RIDGE TIE  
 5/8" PAD BETWEEN UPPER FLIP 2X4



DOG HOUSE 1/2" PLY SEATHING SAILS  
 4-REQUIRED



HOLD DOWN SHEATHING FROM  
 TOP OF TRUSS

HOLD DOWN SHEATHING FROM  
 TOP OF TRUSS

2X6 SHIP LOOSE 18"  
 EAVE OVERHANGS

2X6 SHIP LOOSE 18"  
 EAVE OVERHANGS

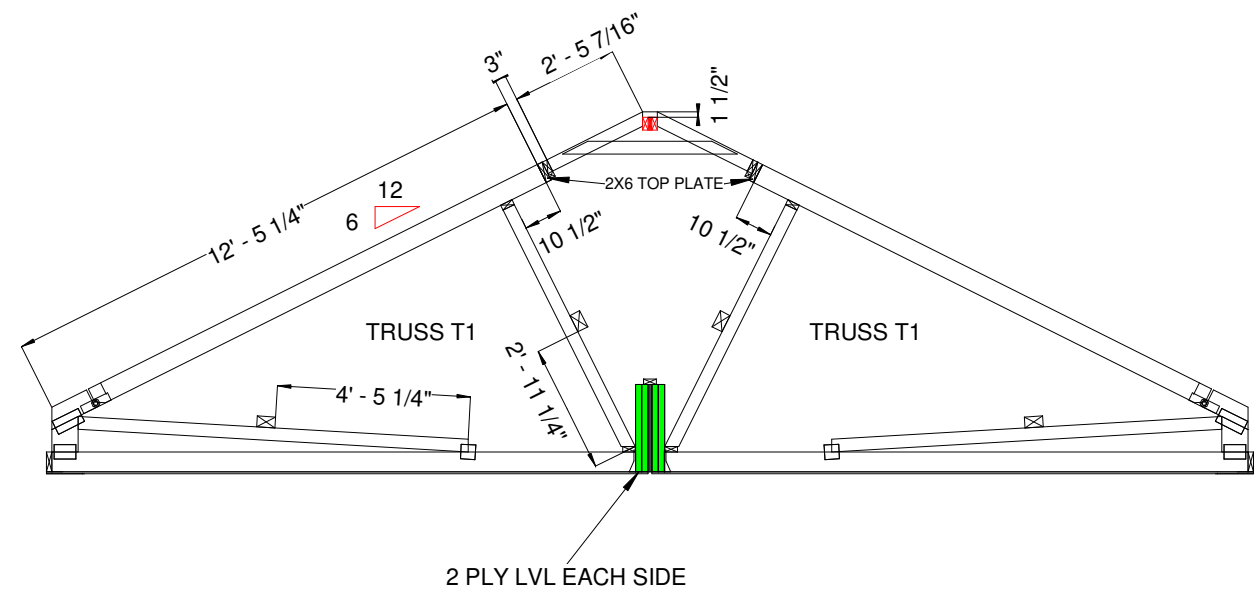
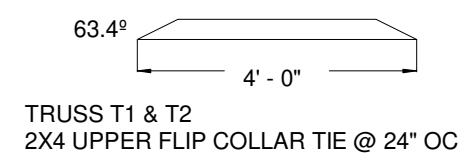
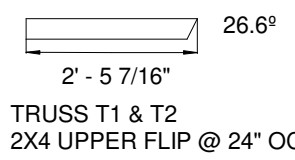
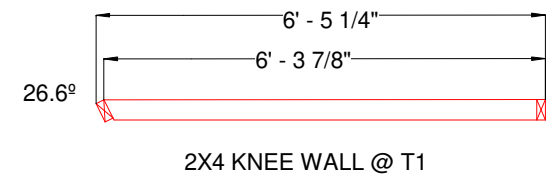
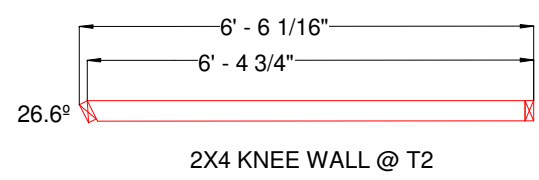
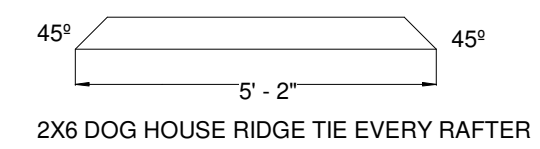
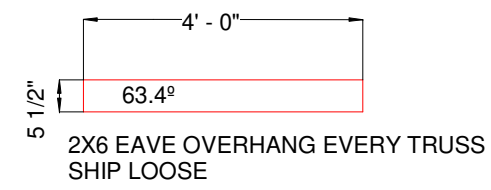
BOX D

BOX C

BOX B

BOX A

LSTA18 STRAP EACH TRUSS HEEL



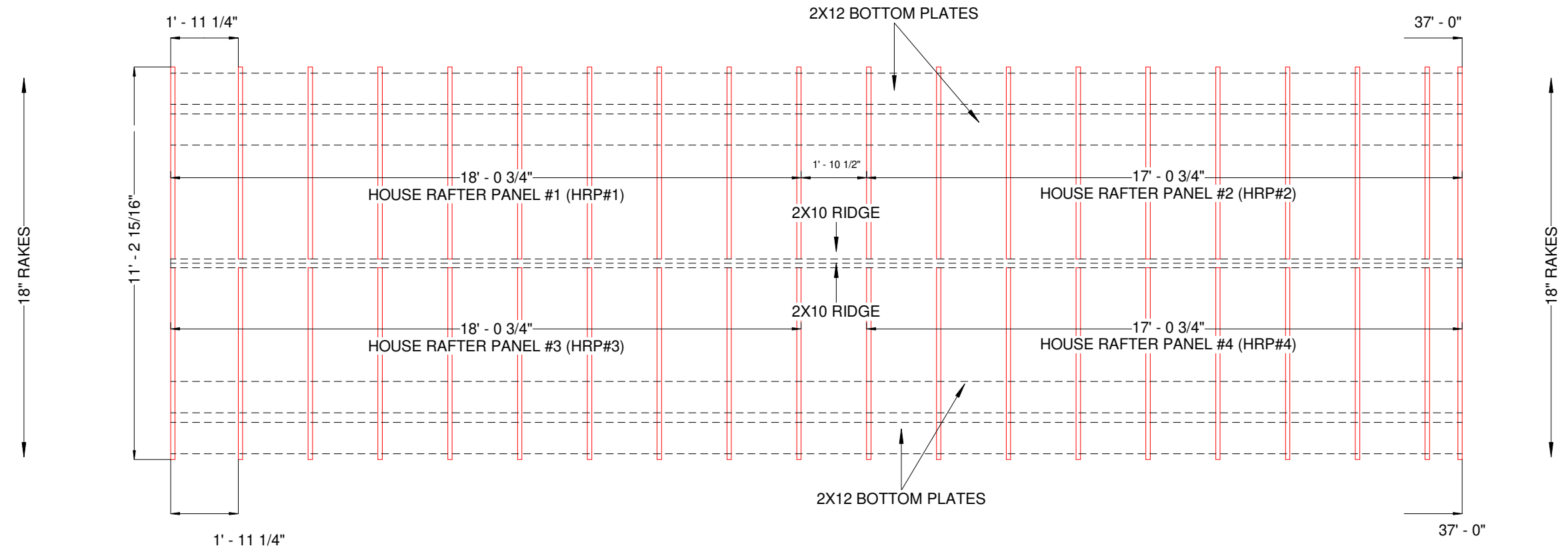
PRODUCTION PRINTS  
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 PLANS

SECTION DETAILS  
 CLARK AND SON

9/8/2020  
 3:10:14 PM  
 NEH #11387  
 As indicated

Sheet  
 Number:  
**SP1.4**

2X10 DOG HOUSE RAFTER PANELS  
 2X10 RAFTERS @24" OC  
 2X12 BOTTOM PLATES  
 2X10 RIDGE



PRODUCTION PRINTS  
 THESE PLANS ARE INDICATIVE  
 OF THE 3RD PARTY APPROVED  
 PLANS

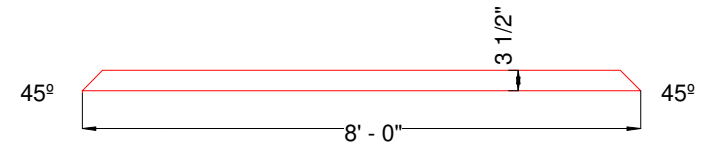
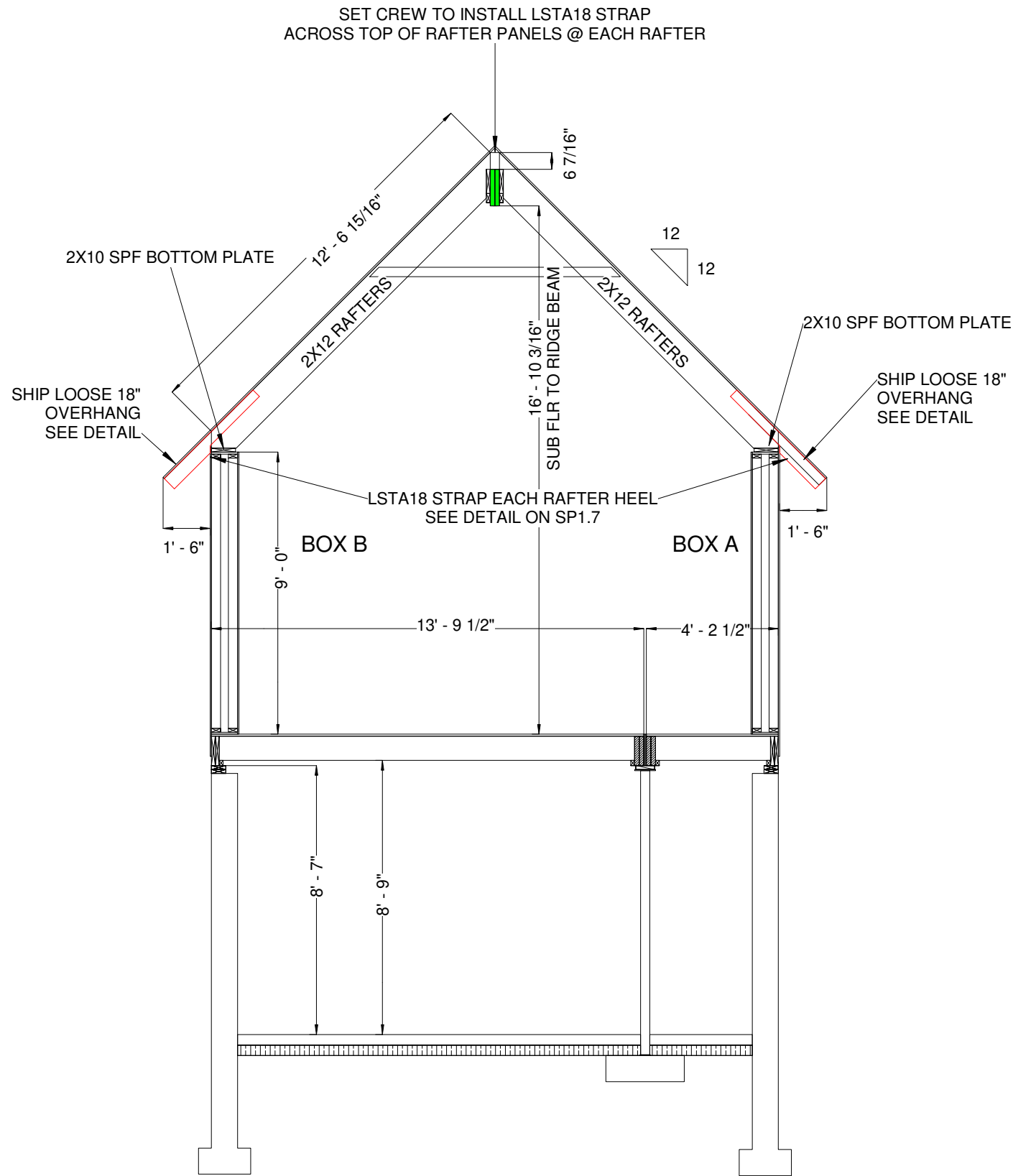
DOG HOUSE LAYOUT  
 CLARK AND SON

9/15/2020  
 12:02:42 PM

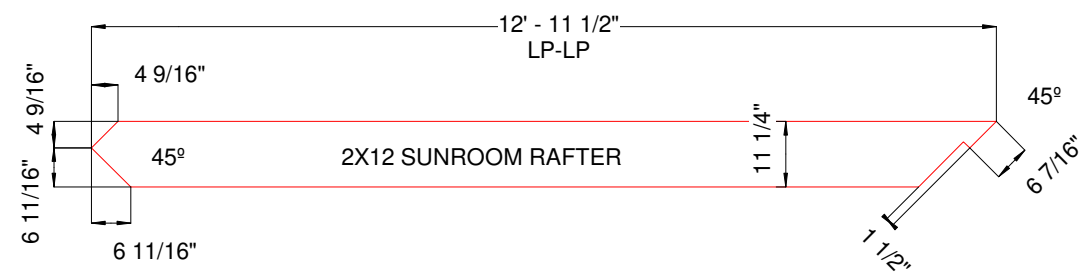
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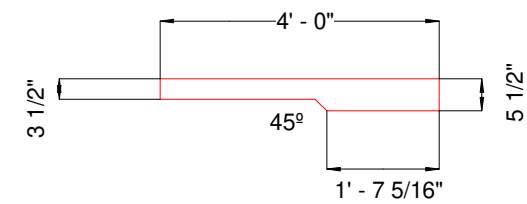
**SP1.5**



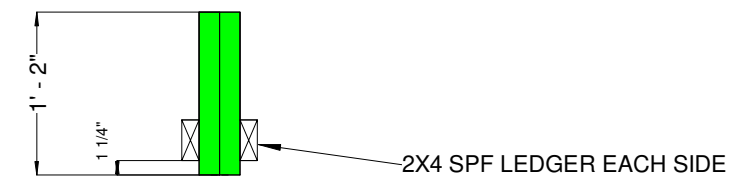
2X4 SPF SUNROOM RIDGE TIE EVERY RAFTER



2X12 SPF RAFTER



2X6 SPF EAVE OVERHANGER EVERY RAFTER



2 PLY 14" LVL RIDGE BEAM @ 15'-3 1/2"  
W/ 2X4 SPF LEDGER

PRODUCTION PRINTS  
THESE PLANS ARE INDICATIVE  
OF THE 3RD PARTY APPROVED  
PLANS

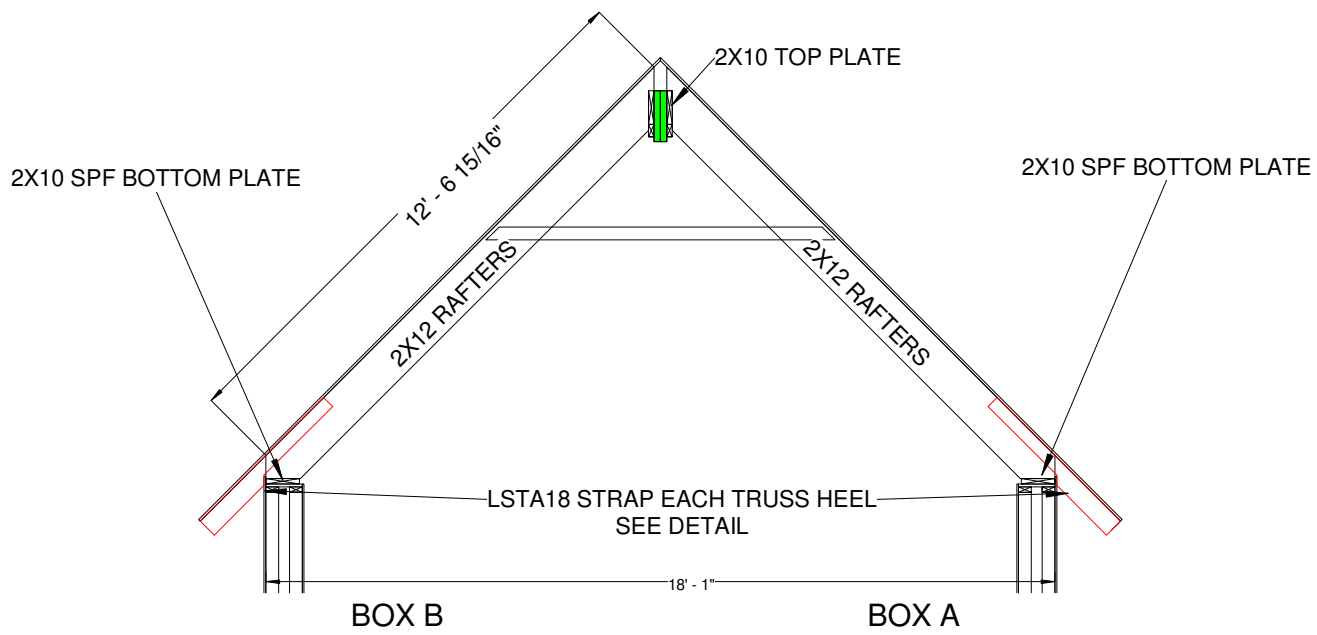
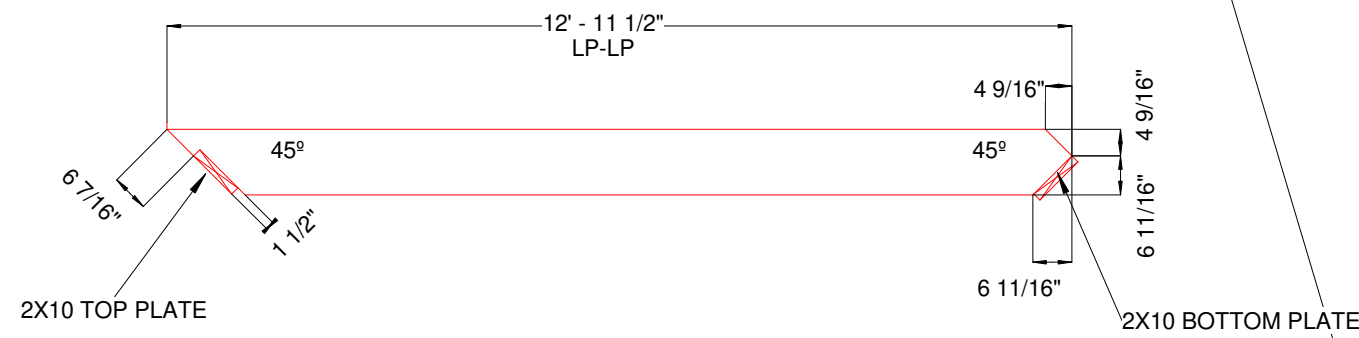
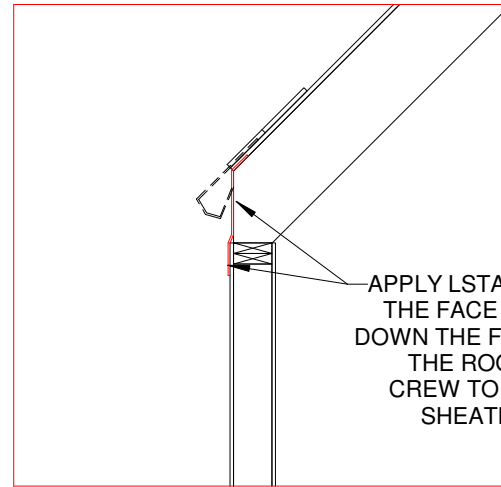
SUNROOF SECTION  
CLARK AND SON

8/28/2020  
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NEH #11387  
As indicated

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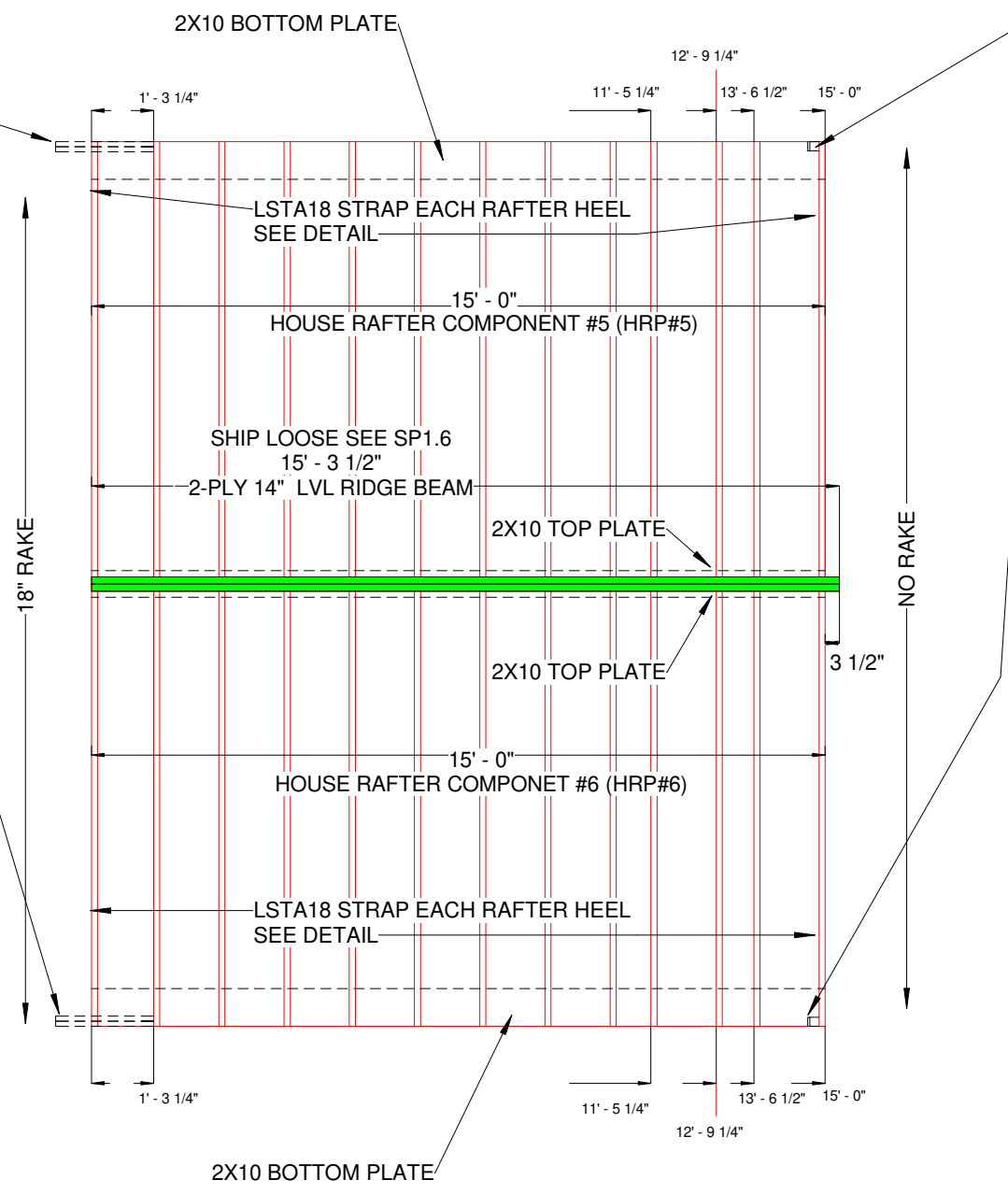
**SP1.6**



2-CS14 STRAPS ON TOP OF THE 2X10 PLATE AND RUN UNDER THE LAST RAFTER AND BENT UP. THE SET CREW WILL BEND DOWN AFTER RAFTER PANEL SET AND ATTACH TO THE EAVE WALL END STUDS

18" SHIP LOOSE OVERHANGS SEE SP1.6

2X12" SPF RAFTERS @16" OC LAYOUT



18" SHIP LOOSE OVERHANGS SEE SP1.6

PRODUCTION PRINTS  
THESE PLANS ARE INDICATIVE  
OF THE 3RD PARTY APPROVED  
PLANS

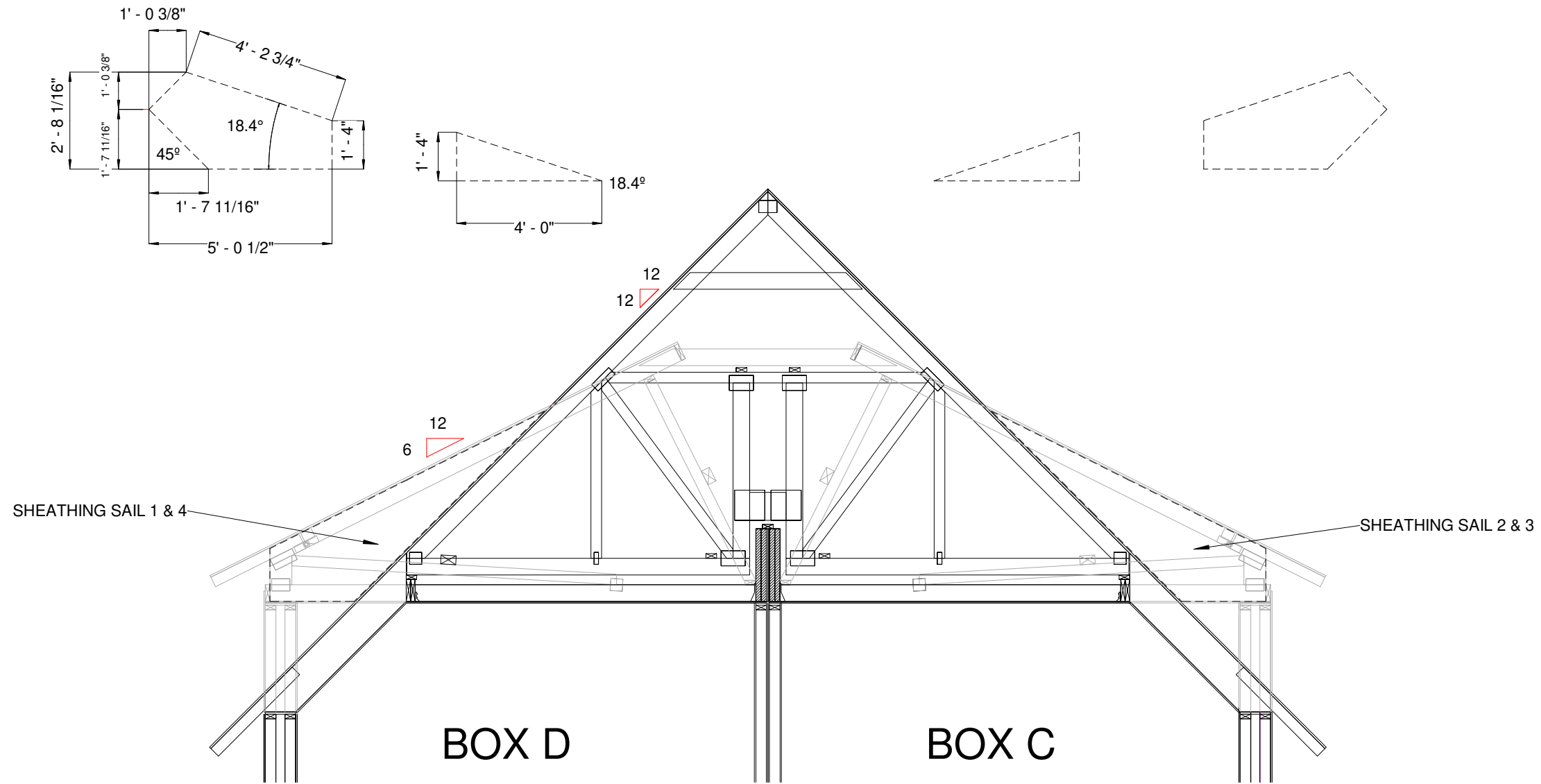
SUNROOM RAFTER LAYOUT  
CLARK AND SON

9/15/2020  
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NEH #11387  
As indicated

Sheet Number:  
**SP1.7**





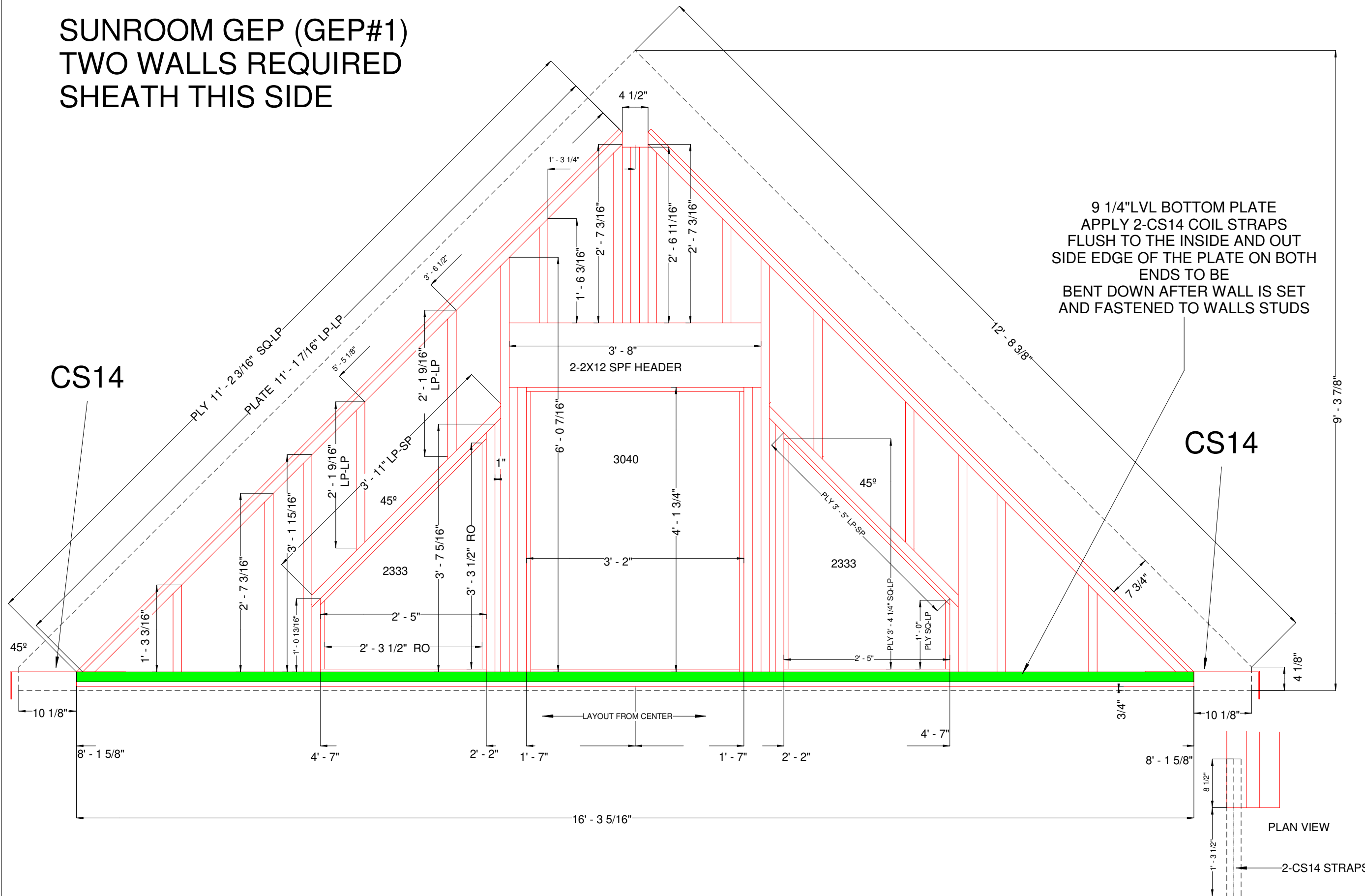
PRODUCTION PRINTS  
 THESE PLANS ARE INDICATIVE  
 OF THE 3RD PARTY APPROVED  
 PLANS

SHEATHING SAILS  
 CLARK AND SON

8/28/2020  
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 Number:  
**SP1.8**

**SUNROOM GEP (GEP#1)  
TWO WALLS REQUIRED  
SHEATH THIS SIDE**



9 1/4" LVL BOTTOM PLATE  
APPLY 2-CS14 COIL STRAPS  
FLUSH TO THE INSIDE AND OUT  
SIDE EDGE OF THE PLATE ON BOTH  
ENDS TO BE  
BENT DOWN AFTER WALL IS SET  
AND FASTENED TO WALLS STUDS

CS14

CS14

PRODUCTION PRINTS  
THESE PLANS ARE INDICATIVE  
OF THE 3RD PARTY APPROVED  
PLANS

SUNROOM GEP  
CLARK AND SON

8/31/2020  
4:50:20 PM

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1:15

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Number:  
**SP1.9**

PLAN VIEW

2-CS14 STRAPS