

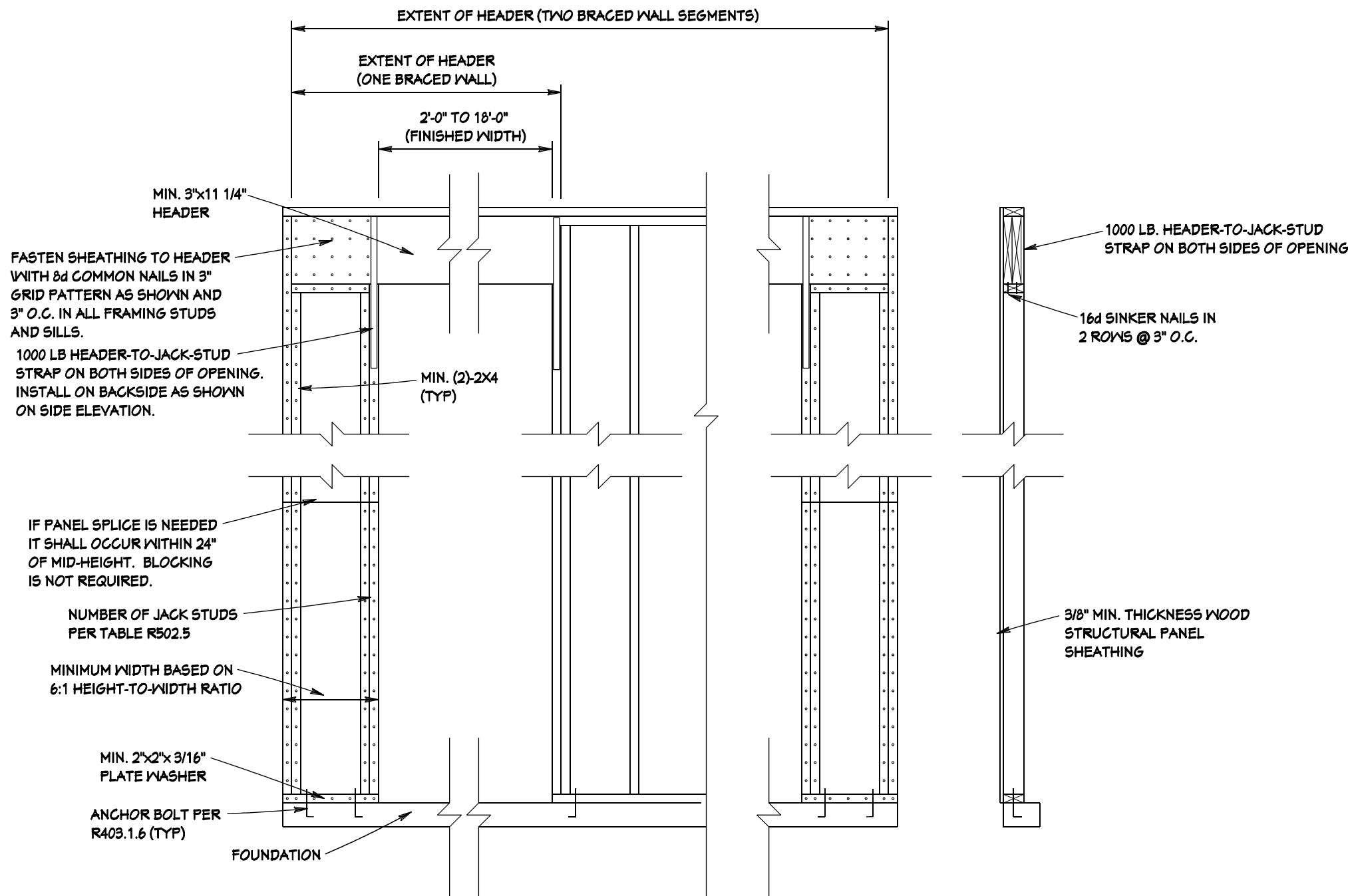
LIGHT & VENTILATION SCHEDULE							
ROOM	ROOM AREA	WINDOW TYPE	LIGHT AREA REQ.	VENT AREA REQ.	ACTUAL LIGHT AREA	ACTUAL VENT AREA	BEDROOM EGRESS AREA
GREAT ROOM	941.41 S.F.	(2)-36T2+36T2-2+(6)TR	27.31 S.F.	13.65 S.F.	56.28 S.F. + TR	27.28 S.F.	
KITCHEN / CASUAL DINING	440.62 S.F.	(3)-36T2+36T2-2+(8)TR+DR	95.24 S.F.	17.62 S.F.	10.35 S.F. + TR + DR	34.10 S.F. + DR	
BEDROOM #1	230.53 S.F.	3666-2	16.44 S.F.	9.22 S.F.	25.52 S.F.	12.92 S.F.	6.16 S.F.
BATH #1	117.37 S.F.	(3)TR	4.38 S.F.	4.64 S.F.	TRANSOM + ARTIFICIAL	MEGH.	
CLUB ROOM	220.26 S.F.	36T2-2+(2)-30T2	17.62 S.F.	6.81 S.F.	32.91 S.F.	15.82 S.F.	6.82 S.F.
LAV.	34.25 S.F.		2.74 S.F.	1.37 S.F.	ARTIFICIAL	MEGH.	
LAUNDRY	50.87 S.F.		4.70 S.F.	2.35 S.F.	ARTIFICIAL	MEGH.	
MESSY KITCHEN	56.65 S.F.		4.53 S.F.	2.26 S.F.	ARTIFICIAL	MEGH.	
BEDROOM #2	135.43 S.F.	3660	10.83 S.F.	5.41 S.F.	11.50 S.F. + ARTIFICIAL	5.74 S.F. + MEGH.	5.74 S.F.
BATH #2	44.07 S.F.		3.42 S.F.	1.46 S.F.	ARTIFICIAL	MEGH.	
BEDROOM #3	182.00 S.F.	3660	14.56 S.F.	7.28 S.F.	11.50 S.F. + ARTIFICIAL	5.74 S.F. + MEGH.	5.74 S.F.
RECREATION ROOM	658.45 S.F.	(3)-3660	52.67 S.F.	26.33 S.F.	34.50 S.F. + ARTIFICIAL	17.22 S.F. + MEGH.	

ARTIFICIAL LIGHT AND MECHANICAL VENTILATION TO COMPLY WITH 2013 RCO SECTION 309.

ROOF ATTIC VENTILATION	
SQ.FT. ATTIC SPACE	3999.11 SQ.FT.
SQ.IN. VENTILATION REQ'D.	1610.00 SQ.IN.
SQ.IN. VENTILATION SUPPLIED = 2458.00 SQ. IN.	
42 LIN. FT. OF RIDGE VENT @ 19.00 SQ. IN./LIN. FT. = 1656.00 SQ.IN.	
31-16x6 SOFFIT VENTS @ 42.00 SQ. IN. EACH = 1302.00 SQ.IN.	



11450 Canby Court - Model Residence  
Lot #621 Canby Court - Elevation "C"  
"Manchester"



"APA" NARROW WALL BRACING DETAIL  
NO SCALE

CLIMATIC AND GEOGRAPHIC DESIGN CRITERIA (2013 RCO TABLE 301.2 (1))

GROUND SNOW LOAD	WIND DESIGN		SEISMIC DESIGN CATEGORY	SUBJECT TO DAMAGE FROM			WINTER DESIGN TEMP.	ICE SHIELD UNDERLAYMENT REQUIRED	FLOOD HAZARDS	AIR FREEZING INDEX	MEAN ACTUAL TEMP.
	SPEED	TOPOGRAPHIC EFFECTS		WEATHERING	FROST DEPTH	TERMITE					
20	90 MPH	NO	A	SEVERE	36"	MODERATE TO HEAVY	5 DEG. F	YES	A. 7/16/79 B. 4/22/97	1500	50.1 DEG. F

CODE NOTES

- THE GARAGE SHALL BE COMPLETELY SEPARATED FROM THE RESIDENCE AND ITS ATTIC AREA BY MEANS OF A (1) ONE HOUR FIRE-RATED WALLS AND CEILINGS.
- WHEN THE BASEMENT STAIR IS ENCLOSED AND THE UNDERSIDE IS ACCESSIBLE FOR STORAGE, THEN THE BOTTOM OF THE STAIR STRINGER SHALL BE FIRESTOPPED AND THE UNDERSIDE MUST BE COMPLETELY DRYMAILED.
- HANDRAILS SHALL BE PROVIDED ON AT LEAST ONE SIDE OF THE STAIRS WITH 3 OR MORE RISERS. HANDRAILS WILL BE MEASURED BETWEEN 34 TO 38 INCHES VERTICALLY FROM THE NOSING OF THE TREADS. THE HANDGRIP PORTION SHALL NOT BE MORE THAN 2 1/2" IN CROSS SECTION DIMENSION OR AN APPROPRIATE SHAPE WHICH SHALL PROVIDE AN EQUIVALENT GRIPPING SURFACE. THE HANDGRIP PORTION OF HANDRAILS SHALL HAVE A SMOOTH SURFACE WITH NO SHARP EDGES.
- PORCHES, BALCONIES OR RAISED FLOORS LOCATED MORE THAN 30" ABOVE THE FLOOR OR GRADE SHALL HAVE GUARDRAILS NOT LESS THAN 36" HIGH. OPEN STAIRS WITH A RISE OF MORE THAN 30" SHALL HAVE GUARDRAILS NOT LESS THAN 34" HIGH. DISTANCE BETWEEN BALUSTERS TO BE LESS THAN 4".
- SMOKE DETECTORS SHALL BE INSTALLED IN ALL SLEEPING ROOMS, AREA OUTSIDE AND ADJACENT WITHIN 15 FEET TO SLEEPING AREA ON EACH STORY INCLUDING BASEMENT AND CELLARS AND ALL DETECTORS SHALL BE INTERCONNECTED. REQUIRED SMOKE DETECTORS PRIMARY POWER SHALL BE FROM THE BUILDING WIRING AND WHEN THE PRIMARY POWER IS INTERRUPTED, SHALL RECEIVE POWER FROM A BATTERY. ROOMS WITH SLOPED CEILINGS THAT MUST HAVE SMOKE DETECTORS INSTALLED, THE LOCATION OF THE SMOKE DETECTOR SHALL BE 3 FEET HORIZONTALLY FROM THE CEILING HIGHEST POINT.
- THE GRADE AWAY FROM FOUNDATION WALLS SHALL FALL A MIN. 6" WITHIN THE FIRST 10'.
- CONCRETE SLABS IN BASEMENT SHALL BE 2500 PSI AND GARAGE SHALL BE 3500 PSI, AND BOTH SHALL BE AIR ENTRAINED CONCRETE WITH VAPORBARRIER OVER BASE COURSE IN ACCORDANCE WITH CBO TABLE 402.2. ALL CONCRETE SLABS ON GRADE WITH HABITABLE SPACES SHALL HAVE A VAPORBARRIER OVER THE BASE COURSE.
- ANCHOR BOLTS MUST BE IMBEDDED 15" INTO CONCRETE BLOCK AND IMBEDDED 7" INTO POURED CONCRETE. BOLTS SHALL BE SPACED 6" ON CENTER, 12" FROM CORNERS. ANCHOR STRAPS MUST BE INSTALLED PER MANUFACTURER'S SPECS.
- 2x BLOCKING EQUAL TO THE JOIST DEPTH TO BE INSTALLED AT 24" O.C. BETWEEN THE BAND AND FIRST JOIST WHICH IS PARALLEL TO THE FOUNDATION WALL. BLOCKING SHALL BE ADEQUATELY FASTEN TO THE FLOOR SHEATHING.
- UNDERFLOOR SPACES SHALL BE PROVIDED WITH 1 CFM OF AIR EXCHANGE PER EVERY 50 SQ. FT. OF CRAWLSPACE WHEN INSULATING THE CRAWLSPACE WALLS. EXTERIOR WALL VENTS MUST BE INSTALLED PER CBO AND ONLY WHEN INSULATING FLOOR JOISTS.
- JOISTS UNDER PARALLEL BEARING PARTITIONS SHALL BE DOUBLED OR A BEAM OF ADEQUATE SIZE TO SUPPORT THE LOAD SHALL BE PROVIDED.
- ENDS OF JOIST, BEAM OR GIRDER TO BEAR 1 1/2" OR GREATER ON WOOD OR METAL AND TO BEAR 3" OR GREATER ON MASONRY.
- FIRESTOPPING SHALL BE PROVIDED TO CUT OFF ALL CONCEALED DRAFT OPENINGS (VERT. AND HORIZ.) AND TO FORM AN EFFECTIVE FIRE BARRIER BETWEEN STORIES AND BETWEEN STORIES AND THE ROOF.
- MAINTAIN A MIN. 2" AIR SPACE BETWEEN CHIMNEY AND THE INTERIOR AND MAINTAIN A MIN. OF 1" SPACE BETWEEN THE CHIMNEY AND THE EXTERIOR.
- CHIMNEYS ARE TO EXTEND TO 2'-0" OR GREATER ABOVE HIGHEST PORTION OF THE BUILDING WITHIN 10'-0" AND SHALL BE 3'-0" OR GREATER ABOVE ITS ROOF PENETRATION.
- FACTORY BUILT FIREPLACES SHALL COMPLY WITH LISTINGS AND SPECIFICATIONS OF MANUFACTURER AND/OR THE LATEST EDITION OF NFPA 211.
- MASONRY AND FACTORY BUILT FIREPLACES SHALL BE EQUIPPED WITH AN EXTERIOR AIR SUPPLY TO ASSURE PROPER FUEL COMBUSTION.
- INSULATION AND FACINGS EXPOSED IN ATTIC, DWELLING UNIT OR CRAWL SPACES SHALL HAVE A FLAME SPREAD RATING NOT TO EXCEED 25 AND SMOKE DEVELOPED FACTOR NOT TO EXCEED 450.
- IN ALL FRAME WALLS AND FLOORS, AND CEILINGS, NOT VENTILATED TO ALLOW MOISTURE TO ESCAPE, AN APPROVED VAPOR RETARDER HAVING A MAXIMUM PERM RATING OF 1.0, SHALL BE INSTALLED ON THE WARM-IN-WINTER SIDE OF THE THERMAL INSULATION.
- 18" CLEARANCE SHALL BE MAINTAINED BELOW FLOOR JOISTS OVER EXPOSED EARTH IN CRAWL SPACE. VAPOR BARRIER MUST BE APPLIED OVER THE SOIL.
- PROVIDE ACCESS TO ALL SHUT OFFS, UNIONS AND CONNECTIONS.

GENERAL NOTES

- EXTERIOR DIMENSIONS ARE FROM OUT TO OUT OF SHEATHING.
- INTERIOR DIMENSIONS ARE FROM FACE TO FACE OF FRAMING.
- ALL INTERIOR PARTITIONS ARE 2x4 (3 1/2") UNLESS OTHERWISE NOTED.
- LIVE/DEAD LOADS  
FOOTINGS 1500 PSF  
FIRST FLOOR 50 PSF  
SECOND FLOOR 50 PSF  
ROOF/WALL CEILING 30 PSF  
ROOF/WALL CEILING 20 PSF  
DECKS 50 PSF
- LUMBER GRADES UNLESS OTHERWISE SPECIFIED ALL WOOD FRAMING SHALL HAVE THE FOLLOWING MINIMUM VALUES:  
(#2 SYP) UP TO 2x4 E = 1.4 Fb = 1504 (REPETITIVE)  
(#2 SYP) 2x6 Fb = 1308 (REPETITIVE)  
2x8 Fb = 1208 (REPETITIVE)  
2x10 Fb = 1107 (REPETITIVE)  
2x12 Fb = 1006 (REPETITIVE)  
(#2 SYP) UP TO 2x4 E = 1.6 Fb = 1125 (REPETITIVE)  
(#2 SYP) 2x6 Fb = 1440 (REPETITIVE)  
2x8 Fb = 1300 (REPETITIVE)  
2x10 Fb = 1206 (REPETITIVE)  
2x12 Fb = 1120 (REPETITIVE)  
"LVL" LUMBER AS MANUFACTURED BY TRUSS-JOIST OR EQUAL E = 1.9 Fb = 2600 Fc1 = 750 Fv = 225
- PROVIDE 7/16" OSB, AT INSIDE AND OUTSIDE BUILDING CORNERS 4'-0" WIDE. TYPICAL FULL HEIGHT OF WALL W/8 @ 6" O.C. AT PANEL CORNERS & EDGES W/8 @ 12" O.C. AT INTERMEDIATE STUDS
- WINDOWS ARE VINYL SINGLE HUNG.
- PROVIDE DOUBLE STUDS AT ALL LINTEL AND WOOD BEAM BEARINGS UNLESS NOTED OTHERWISE.
- ALL MULTIPLE STUDS AT BEAM BEARING MUST BE #2 SYP OR BETTER. NAIL TOGETHER WITH 10d @ 12" O.C.
- PROVIDE SOLID BLOCKING BELOW ALL MULTIPLE STUDS.
- MULTIPLE MEMBER BEAMS - NAIL TOGETHER WITH 2 ROWS 10d @ 12" O.C.
- ALL FRAMING LUMBER #2 SYP OR BETTER EXCEPT ALL STUDS TO BE STUD GRADE LUMBER.
- NAILING BASED ON COMMON NAIL SIZE, INCREASE 25% IF CEMENT COATED SINKERS OR NAIL GUNS ARE USED.
- PROVIDE (2)-2x8 #2 SYP HEADERS AT EXTERIOR BEARING WALLS UNLESS NOTED OTHERWISE.
- PROVIDE 1x2"x" BRIDGING @ MIDSPAN OF ALL FLOOR JOISTS.
- PROVIDE ROOF SHEATHING AT TRUSS TOP CHORD AT ALL LOCATIONS FOR LATERAL SUPPORT OF TRUSS.
- ALL LUMBER SHOULD BE GRADED AND MARKED WITH THE APPROPRIATE GRADE STAMP.

BUILDING AREAS

TOTAL BASEMENT	2209.44 SQ. FT.
FINISHED BASEMENT	1462.47 SQ. FT.
UNFINISHED BASEMENT	746.97 SQ. FT.
FIRST FLOOR	2144.33 SQ. FT.
GARAGE	655.00 SQ. FT.
FRONT PORCH	63.88 SQ. FT.
SIDE FRONT PORCH	23.00 SQ. FT.
COVERED PORCH	224.00 SQ. FT.

BASE LIVING AREA = 3656.80 SQ. FT.

FOUNDATION NOTES

- ALL FOOTINGS ARE 16"x8" UNLESS OTHERWISE NOTED.
- ALL NON-BASEMENT FOOTINGS ARE 6'-0" ABOVE BASEMENT FOOTINGS. (TOP TO TOP)
- MASONRY FIREPLACE FOOTINGS SHALL BE THICKENED TO 12" WITH 6" PROJECTION ON ALL SIDES.
- TO TIE POURED FOUNDATIONS OF DIFFERENT LEVELS, HOLD HIGH FOOTINGS BACK FROM LOWER EXCAVATIONS AND USE POURED LINTELS TO BRIDGE AND TIE.
- ELEVATIONS BEGIN AT TOP OF BASEMENT FOOTING. (F=0'-0")
- ALL CROSSHATCHED POURED CONCRETE WALLS TOP OUT AT 1/4"x10'-0" INCLUSIVE. ALL OTHER POURED CONCRETE WALLS TOP OUT AT ELEVATION SHOWN INCLUSIVE.
- ALL FOOTING DESIGNS BASED ON 1500 PSF SOIL BEARING.
- CRAWL SPACE IS MECHANICALLY VENTILATED AT A RATE OF 1 CFM FOR EACH 50 SF OF FLOOR AREA.
- ALL METAL FASTENERS, CONNECTORS OR OTHER HARDWARE IN DIRECT CONTACT WITH ANY PRESERVATIVE TREATED LUMBER SHALL BE STAINLESS STEEL TYPE 304 OR TYPE 316 OR HAVE A GALVANIZED COATING THAT COMPLIES WITH THE ASTM A123 CONNECTORS OR A193 FASTENERS CLASS D STANDARDS FOR FASTENERS AND HARDWARE. THE CONNECTORS AND FASTENERS MUST BE MADE OF THE SAME MATERIAL FOR COMPATIBILITY.

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1B	SPECIALTY DETAILS AND NOTES
2A	FOUNDATION AND BASEMENT PLAN
2B	FINISHED BASEMENT PLAN
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4B	EXTERIOR ELEVATIONS - RIGHT SIDE
4C	EXTERIOR ELEVATIONS - REAR
4D	EXTERIOR ELEVATIONS - LEFT SIDE
5	STAIR AND WALL SECTIONS
F-2	FIRST FLOOR - FLOOR FRAMING PLAN
F-3	ROOF FRAMING PLAN

E-2	BASEMENT ELECTRIC PLAN
E-3	FIRST FLOOR ELECTRIC PLAN

	ENGINEERING DRAWINGS BY OTHERS
	HYAC PLANS
	ENGINEERED ROOF TRUSS LAYOUT PLAN
	SEALED TRUSS DRAWINGS
	ENGINEERED FLOOR JOIST LAYOUT PLANS
	ENR BEAM CALCULATIONS

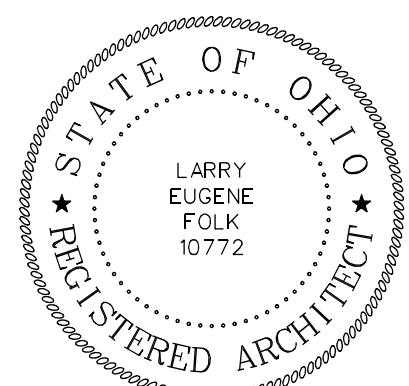
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Expiration Date 12/31/2018

PRELIMINARY  
BIDDING  
CONSTRUCTION

BOB WEBB  
Manchester  
11450 Canby Ct.  
Lot 621 Canby Ct.  
Model - Basement

Job No. Sheet No.  
2018-108 1-A

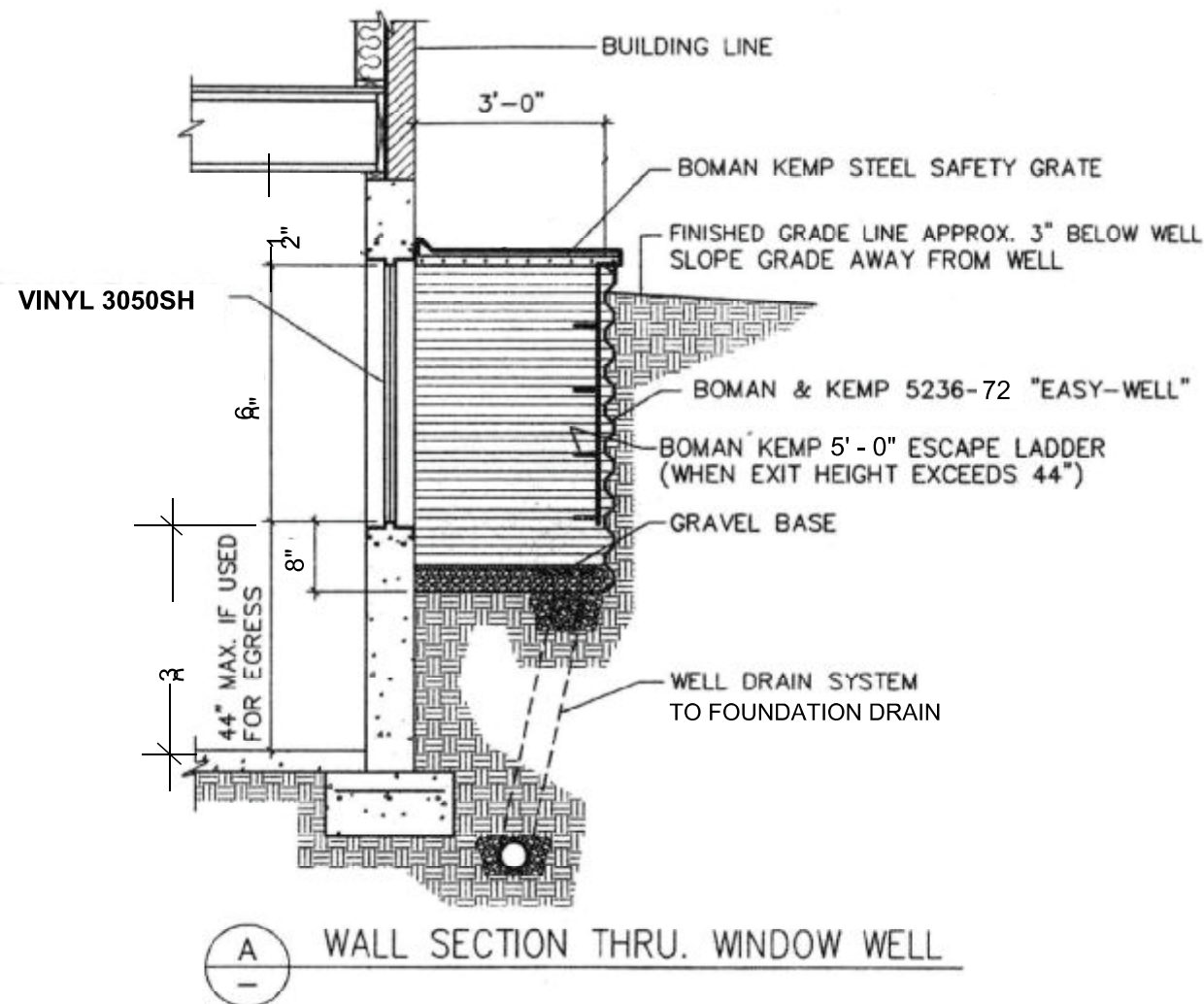
EXHIBIT H-4





**BASEMENT WINDOW SYSTEMS**  
www.boman-kemp.com

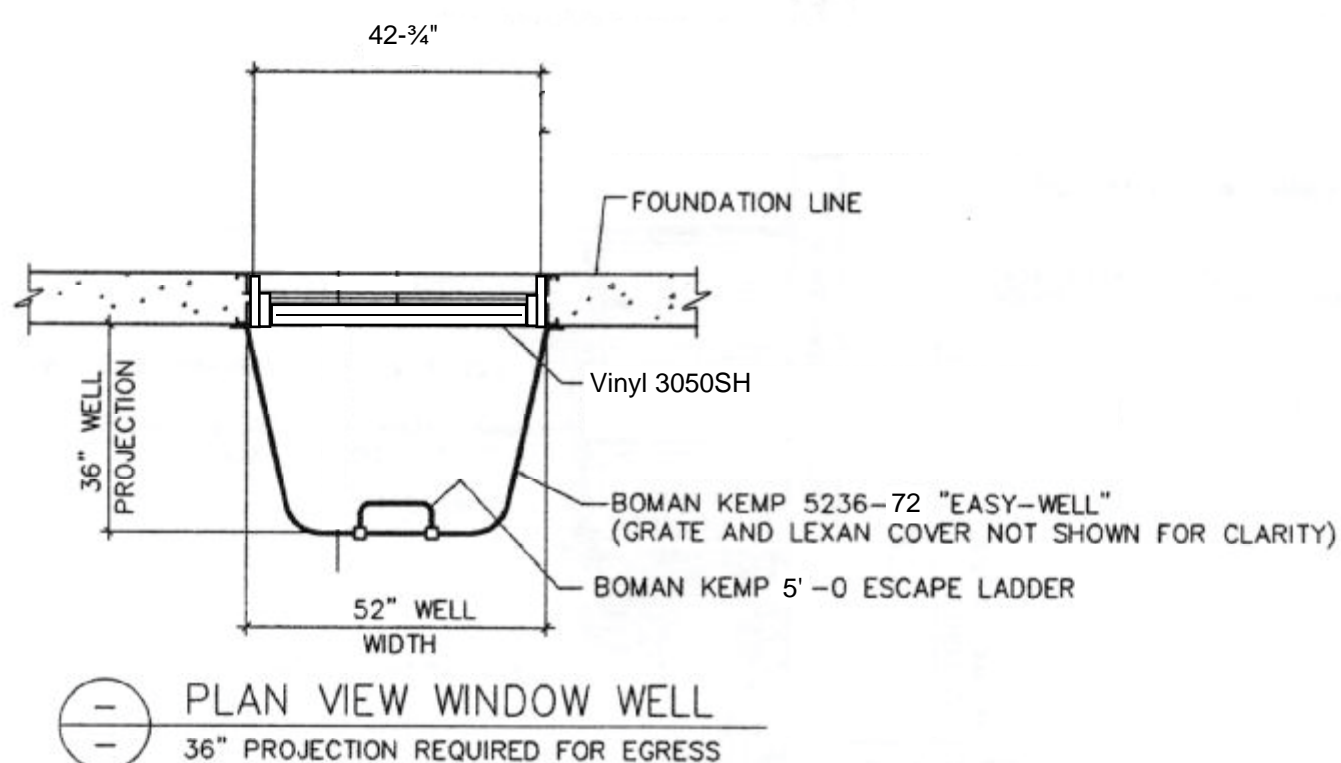
### Vinyl Window



Vinyl Wdw.	R.O.	Clear Opng.	Vent Area FT <sup>2</sup>
3050SH	35-3/4"x 59-3/4"	31-3/4"x 26"	5.73



**BASEMENT WINDOW SYSTEMS**  
www.boman-kemp.com



PLAN VIEW WINDOW WELL  
36" PROJECTION REQUIRED FOR EGRESS

### NOTES:

1. ALL CONCRETE SLABS THAT COME IN CONTACT WITH THE GROUND SHALL BE LAID OVER A GAS PERMEABLE MATERIAL MADE UP OF EITHER A MINIMUM 4" THICK LAYER OF CLEAN AGGREGATE, OR A MINIMUM 4" THICK UNIFORM LAYER OF SAND, OVERLAIN BY A LAYER OR STRIPS OF MANUFACTURED MATTING DESIGNED TO ALLOW THE LATERAL FLOW OF SOIL GASES.

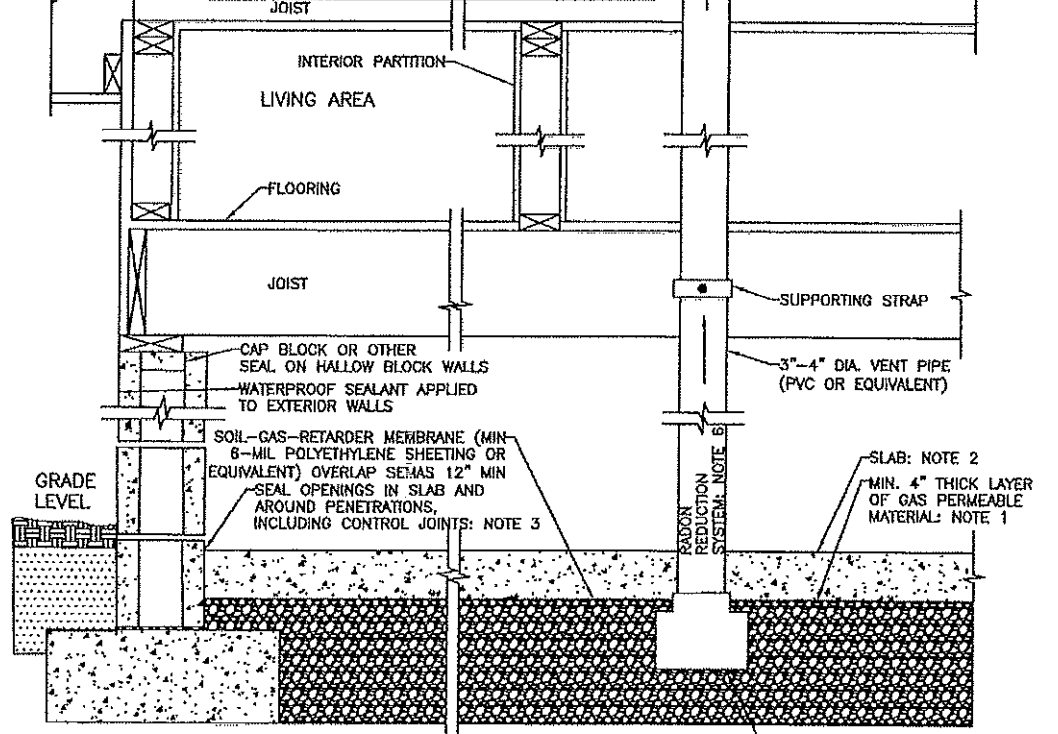
2. ALL CONCRETE FLOOR SLABS SHALL BE DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH LOCAL BUILDING CODES. ADDITIONAL REFS: AMERICAN CONCRETE INSTITUTE PUBLICATIONS, "AC1302.1R" AND "AC1332R", OR THE POST TENSIONING INSTITUTE MANUAL, "DESIGN AND CONSTRUCTION OF POST-TENSIONED SLABS ON GROUND".

3. ALL OPENINGS, GAPS AND JOINTS IN FLOOR AND WALL ASSEMBLIES IN CONTACT WITH SOIL OR GAPS AROUND PIPES, TOILETS, BATHTUBS OR DRAINS PENETRATING THESE ASSEMBLIES SHALL BE FILLED OR CLOSED WITH MATERIALS THAT PROVIDE A PERMANENT AIR-TIGHT SEAL. SEAL LARGE OPENINGS WITH NON-SHRINK MORTAR, GROUTS OR EXPANDING FOAM MATERIALS AND SMALLER GAPS WITH AN ELASTOMERIC JOINT SEALANT, AS DEFINED IN ASTM C920-87.

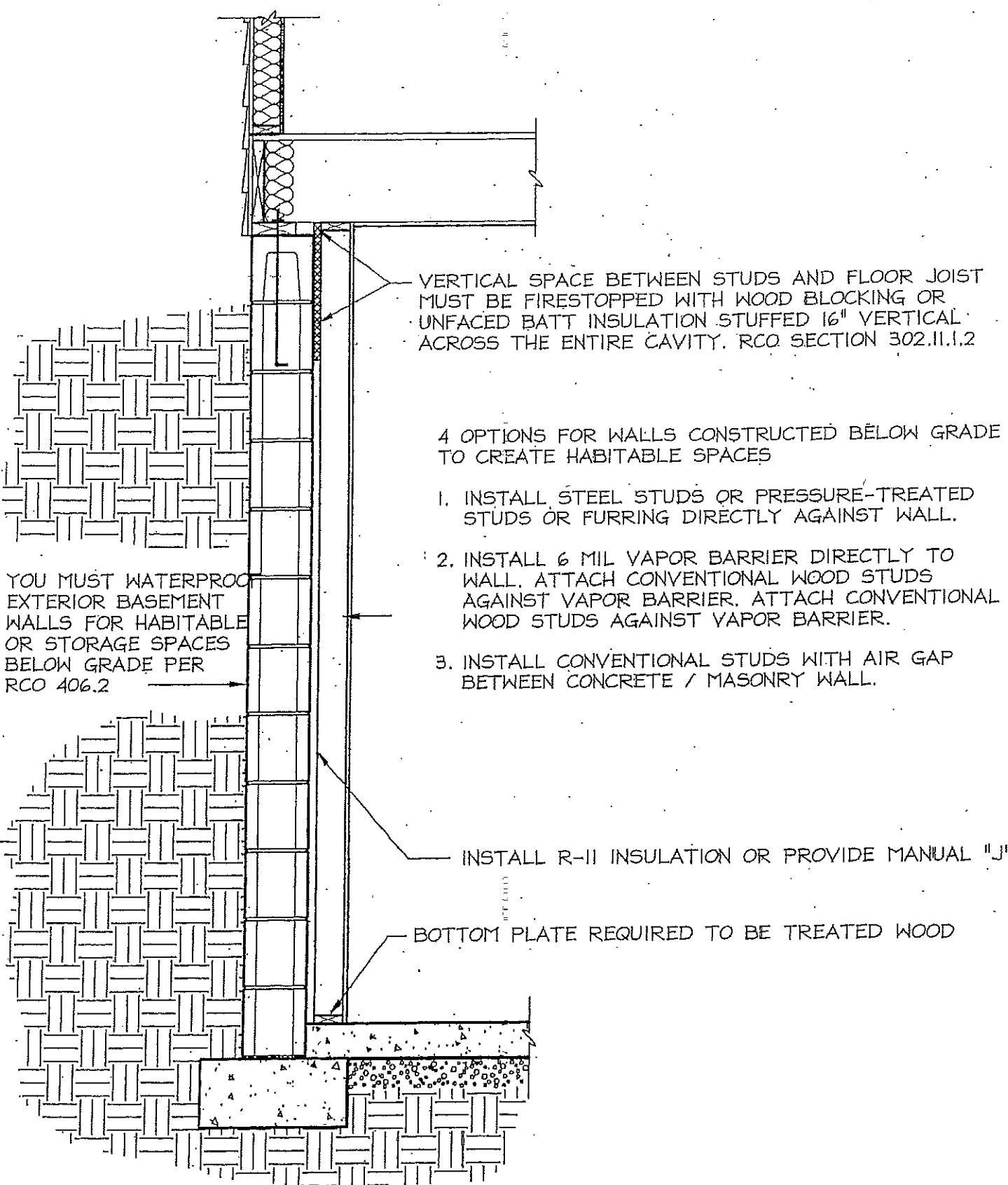
4. VENT PIPES SHALL BE INSTALLED SO THAT ANY RAINWATER OR CONDENSATION DRAINS DOWNWARD INTO THE GROUND BENEATH THE SLAB OR SOIL-GAS-RETARDER MEMBRANE.

5. CIRCUITS SHOULD BE A MINIMUM 15 AMP, 115 VOLT. PROVIDE LIGHT IN THE ATTIC.

6. LABEL RADON VENT PIPE WHERE VISIBLE.



### Passive Radon Installation

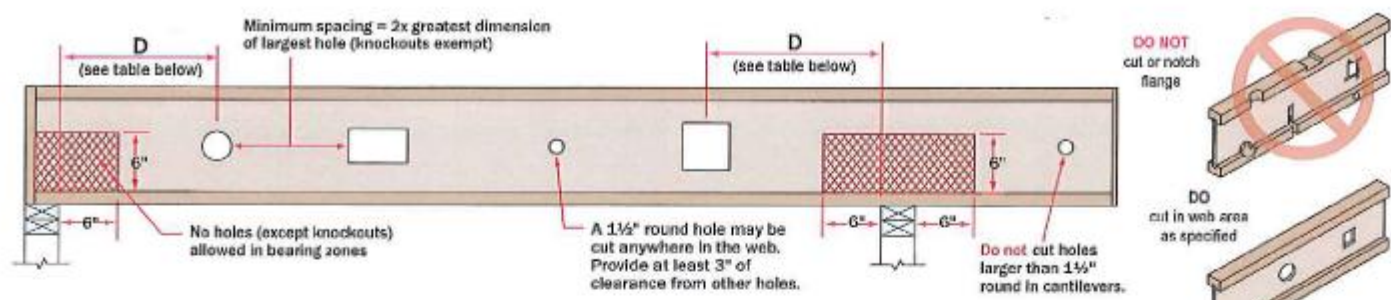


### REQUIREMENTS FOR FINISHING BELOW-GRADE AREAS RCO 2013

### 4

### BCI® Joist Hole Location & Sizing

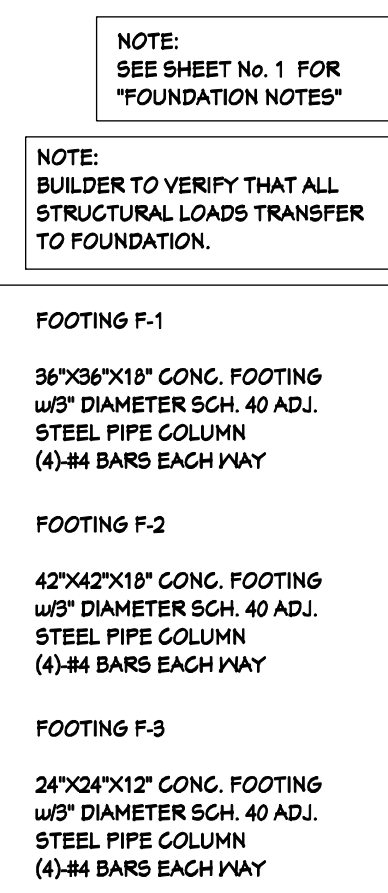
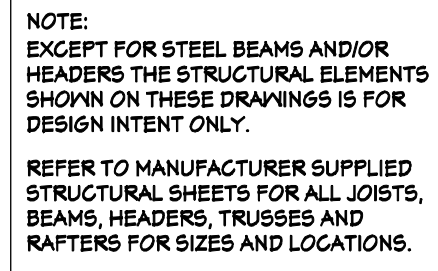
BCI® Joists are manufactured with 1½" round perforated knockouts in the web at approximately 12" on center



Minimum distance from support, listed in table below, is required for all holes greater than 1½"

MINIMUM SPACING (D) FROM ANY SUPPORT TO THE CENTERLINE OF THE HOLE																
Round Hole Diameter [in]		2	3	4	5	6	6½	7	8	8½	9	10	11	12	13	
Rectangular Hole Side [in]		-	-	-	3	5	6	7	-	-	9	10 <td>11<td>12<td>13</td></td></td>	11 <td>12<td>13</td></td>	12 <td>13</td>	13	
Any 90° Joist	Span [ft]	8	1'-0"	1'-1"	1'-5"	2'-1"	2'-8"	3'-1"	3'-5"							
		12	1'-0"	1'-2"	2'-2"	3'-2"	4'-8"	5'-8"								
		16	1'-0"	1'-7"	2'-11"	4'-3"	5'-7"	6'-3"	6'-11"							
Round Hole Diameter [in]		2	3	4	5	6	6½	7	8	8½	9	10	11	12	13	
Rectangular Hole Side [in]		-	-	-	2	3	4	5	7	8	-	-	-	-	-	
Any 11½" Joist	Span [ft]	8	1'-0"	1'-1"	1'-5"	1'-10"	2'-4"	2'-7"	2'-10"	3'-4"	3'-8"					
		12	1'-0"	1'-4"	2'-1"	2'-10"	3'-7"	3'-11"	4'-3"	5'-0"	5'-8"					
		16	1'-0"	1'-10"	2'-10"	3'-9"	4'-9"	5'-3"	5'-8"	6'-9"	7'-7"					
Round Hole Diameter [in]		2	3	4	5	6	6½	7	8	8½	9	10	11	12	13	
Rectangular Hole Side [in]		-	-	-	-	2	3	3	5	6	6	8	9	-	-	
Any 12" Joist	Span [ft]	8	1'-0"	1'-1"	1'-2"	1'-3"	1'-6"	1'-10"	2'-1"	2'-6"	2'-11"	3'-1"	3'-4"	3'-8"		
		12	1'-0"	1'-1"	1'-3"	1'-10"	2'-6"	3'-0"	3'-1"	3'-9"	4'-3"	4'-6"	5'-0"	5'-7"		
		16	1'-0"	1'-1"	1'-6"	2'-6"	3'-4"	3'-8"	4'-2"	5'-0"	5'-8"	5'-10"	6'-8"	7'-5"		
Round Hole Diameter [in]		2	3	4	5	6	6½	7	8	8½	9	10	11	12	13	
Rectangular Hole Side [in]		-	-	-	-	-	-	2	3	5	5	6	8	9	10	
Any 16" Joist	Span [ft]	8	1'-0"	1'-1"	1'-2"	1'-2"	1'-3"	1'-3"	1'-3"	1'-7"	1'-11"	2'-0"	2'-5"	2'-9"	3'-2"	3'-7"
		12	1'-0"	1'-1"	1'-2"	1'-2"	1'-3"	1'-6"	1'-10"	2'-5"	2'-11"	3'-0"	3'-7"	4'-2"	4'-8"	5'-4"
		16	1'-0"	1'-1"	1'-2"	1'-2"	1'-2"	1'-4"	2'-1"	2'-7"	3'-1"	4'-1"	4'-11"	5'-1"	6'-0"	7'-0"
Round Hole Diameter [in]		2	3	4	5	6	6½	7	8	8½	9	10	11	12	13	
Rectangular Hole Side [in]		-	-	-	-	-	-	2	3	5	5	6	8	9	10	
Any 16" Joist	Span [ft]	8	1'-0"	1'-1"	1'-2"	1'-2"	1'-3"	1'-3"	1'-3"	1'-7"	1'-11"	2'-0"	2'-5"	2'-9"	3'-2"	3'-7"
		12	1'-0"	1'-1"	1'-2"	1'-2"	1'-3"	1'-6"	1'-10"	2'-5"	2'-11"	3'-0"	3'-7"	4'-2"	4'-8"	5'-4"
		16	1'-0"	1'-1"	1'-2"	1'-2"	1'-2"	1'-4"	2'-1"	2'-7"	3'-1"	4'-1"	4'-11"	5'-1"	6'-0"	7'-0"
Round Hole Diameter [in]		2	3	4	5	6	6½	7	8	8½	9	10	11	12	13	
Rectangular Hole Side [in]		-	-	-	-	-	-	2	3	5	5	6	8	9	10	
Any 16" Joist	Span [ft]	8	1'-0"	1'-1"	1'-2"	1'-2"	1'-3"	1'-3"	1'-3"	1'-7"	1'-11"	2'-0"	2'-5"	2'-9"	3'-2"	3'-7"
		12	1'-0"	1'-1"	1'-2"	1'-2"	1'-3"	1'-6"	1'-10"	2'-5"	2'-11"	3'-0"	3'-7"	4'-2"	4'-8"	5'-4"
		16	1'-0"	1'-1"	1'-2"	1'-2"	1'-2"	1'-4"	2'-1"	2'-7"	3'-1"	4'-1"	4'-11"	5'-1"	6'-0"	7'-0"
Round Hole Diameter [in]		2	3	4	5	6	6½	7	8	8½	9	10	11	12	13	
Rectangular Hole Side [in]		-	-	-	-	-	-	2	3	5	5	6	8	9	10	
Any 16" Joist	Span [ft]	8	1'-0"	1'-1"	1'-2"	1'-2"	1'-3"	1'-3"	1'-3"	1'-7"	1'-11"	2'-0"	2'-5"	2'-9"	3'-2"	3'-7"
		12	1'-0"	1'-1"	1'-2"	1'-2"	1'-3"	1'-6"	1'-10"	2'-5"	2'-11"	3'-0"	3'-7"	4'-2"	4'-8"	5'-4"
		16	1'-0"	1'-1"	1'-2"	1'-2"	1'-2"	1'-4"	2'-1"	2'-7"	3'-1"	4'-1"	4'-11"	5'-1"	6'-0"	7'-0"
Round Hole Diameter [in]		2	3	4	5	6	6½	7	8	8½	9	10	11	12	13	
Rectangular Hole Side [in]		-	-	-	-	-	-	2	3	5	5	6	8	9	10	
Any 16" Joist	Span [ft]	8	1'-0"	1'-1"	1'-2"	1'-2"	1'-3"	1'-3"	1'-3"	1'-7"	1'-11"	2'-0"	2'-5"	2'-9"	3'-2"	3'-7"
		12	1'-0"	1'-1"	1'-2"	1'-2"	1'-3"	1'-6"	1'-10"	2'-5"	2'-11"	3'-0"	3'-7"	4'-2"	4'-8"	5'-4"
		16	1'-0"	1'-1"	1'-2"	1'-2"	1'-2"	1'-4"	2'-1"	2'-7"	3'-1"	4'-1"	4'-11"	5'-1"	6'-0"	7'-0"
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Any 16" Joist	Span [ft]	8	1'-0"	1'-1"	1'-2"	1'-2"	1'-3"	1'-3"	1'-3"	1'-7"	1'-11"	2'-0"	2'-5"	2'-9"	3'-2"	3'-7"
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Any 16" Joist	Span [ft]	8	1'-0"	1'-1"	1'-2"	1'-2"	1'-3"	1'-3"	1'-3"	1'-7"	1'-11"	2'-0"	2'-5"			





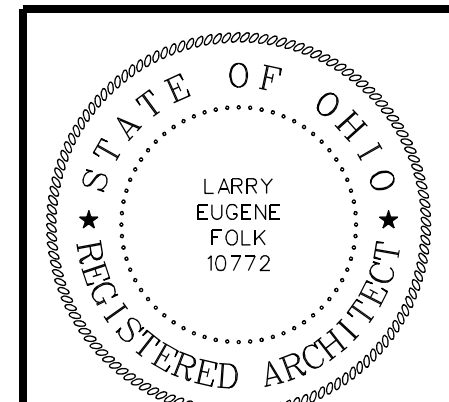
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DRN, LF	03-28-2018					
CHK.						
PLOT LF	03-28-2018					
PLOT						
PLOT						
PLOT						
PLOT						

**LEE Architects, LLC**  
**Foundation**  
**and Basement Plan**

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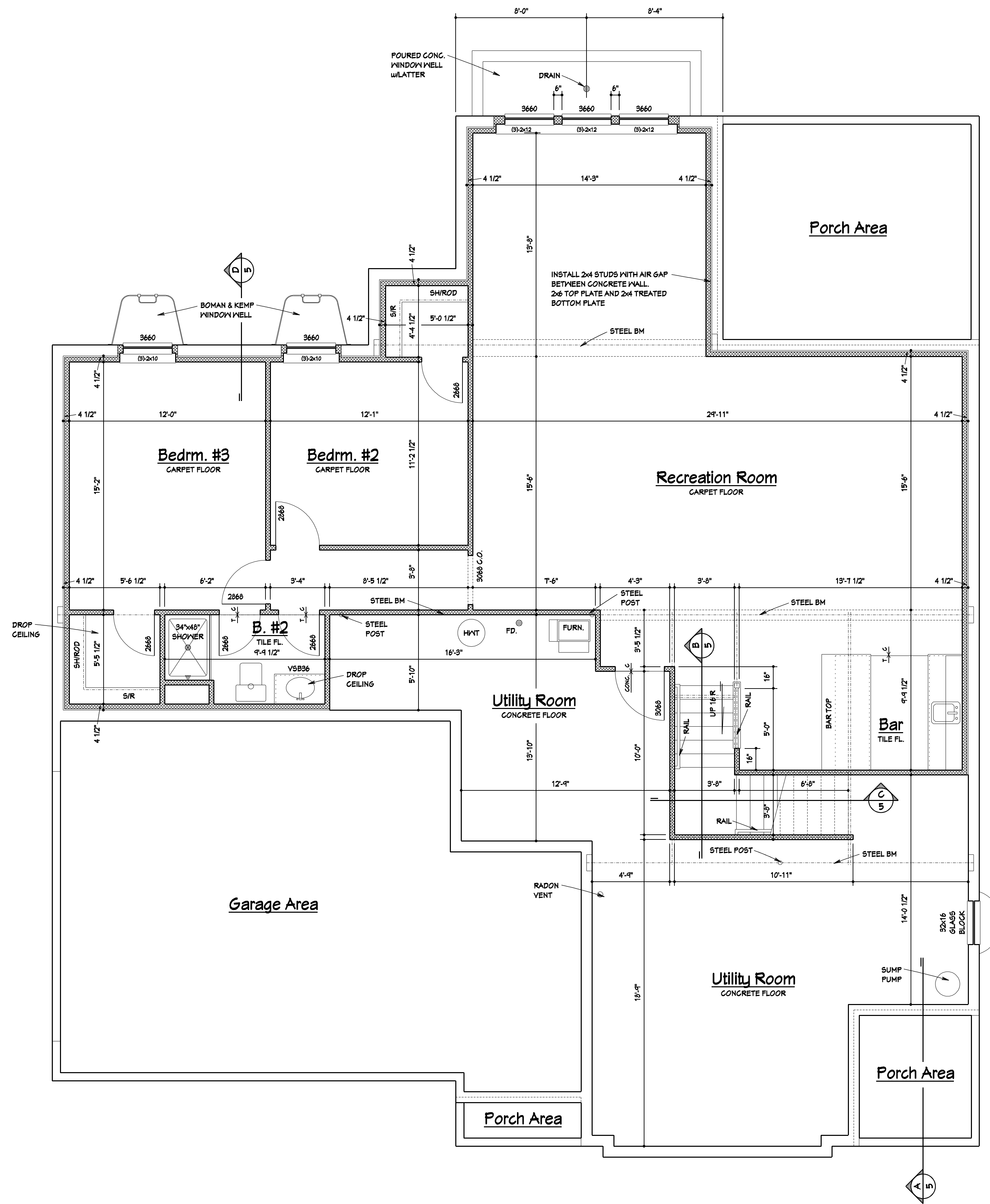
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BIDDING	<input type="checkbox"/>
CONSTRUCTION	<input type="checkbox"/>



**BOB WEBB**  
**Manchester**  
**11450 Canby Ct.**  
**Lot 621 Canby Ct.**  
**Model - Basement**

Job No.	Sheet No.
<b>2018-108</b>	<b>2-A</b>





NOTE:  
SEE SHEET No. 1 FOR  
"GENERAL NOTES"

NOTE:  
BUILDER TO VERIFY THAT ALL  
STRUCTURAL LOADS TRANSFER  
TO FOUNDATION.

NOTE:  
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HEADERS THE STRUCTURAL ELEMENTS  
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REFER TO MANUFACTURER SUPPLIED  
STRUCTURAL SHEETS FOR ALL JOISTS,  
BEAMS, HEADERS, TRUSSES AND  
RAFTERS FOR SIZES AND LOCATIONS.

REVISIONS	
NO.	DATE

SCALE 1/4" = 1'-0"	
DRN.	LF
	03-28-2018
CHK.	
PLOT	LF
	03-28-2018
PLOT	
PLOT	

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Finished Basement Plan

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CONSTRUCTION

BOB WEBB  
Manchester  
11450 Canby Ct.  
Lot 621 Canby Ct.  
Model - Basement

Job No.	Sheet No.
2018-108	2-B



NOTE:  
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SCALE 1/4" = 1'-0"	DRN. LF 03-28-2018	CHK.	PLOT LF 03-28-2018	PLOT	PLOT	PLOT	PLOT
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First Floor Plan

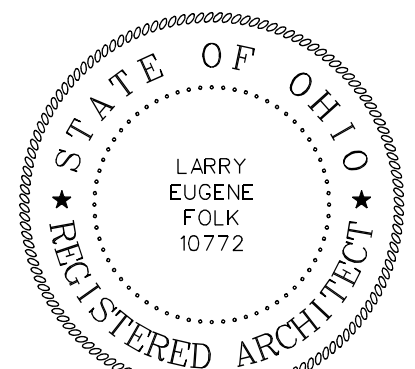
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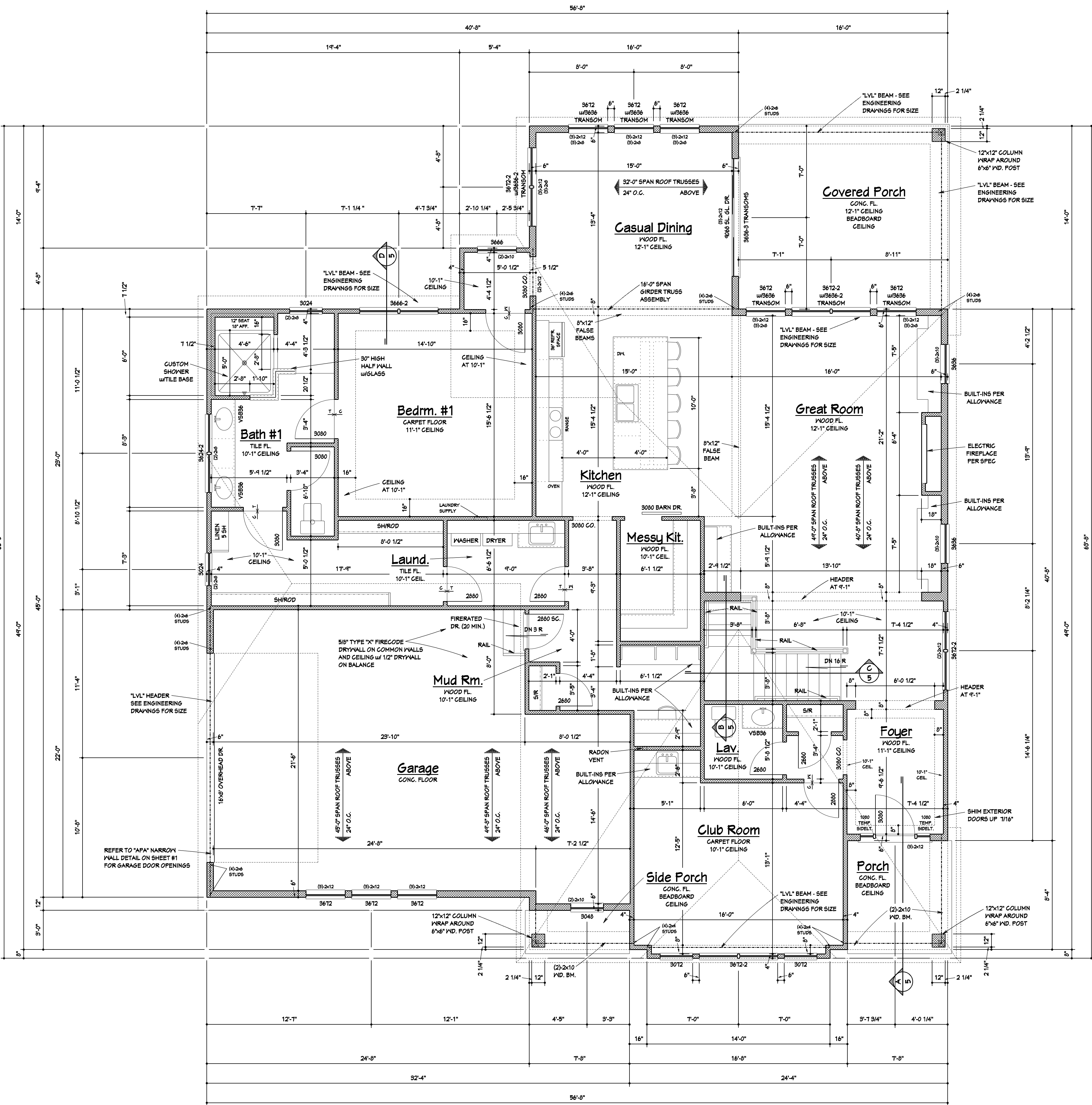


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CONSTRUCTION

**BOB WEBB**  
Manchester  
11450 Canby Ct.  
Lot 621 Canby Ct.  
Model - Basement

Job No. Sheet No.  
2018-108 3



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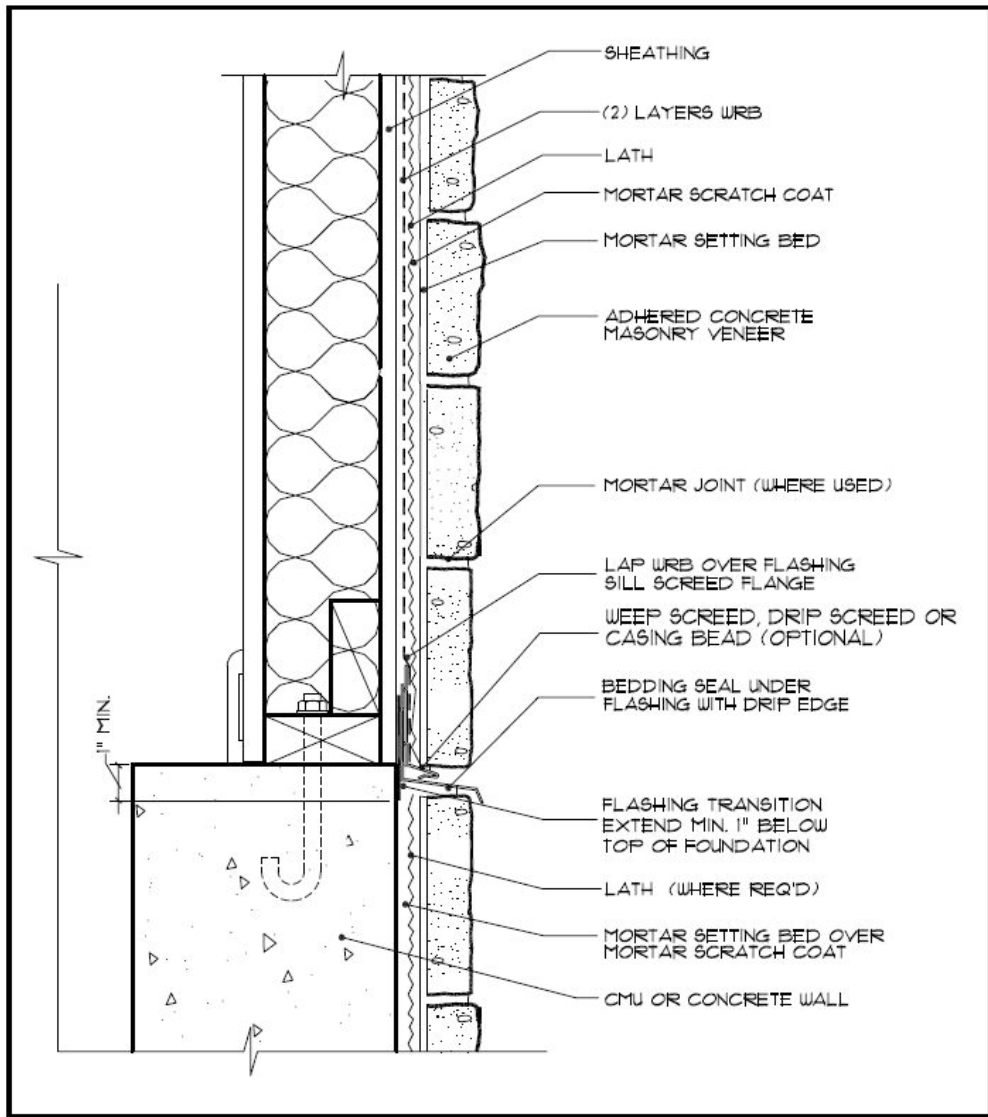
NOTE:  
THE EXTERIOR WALLS OF THIS STRUCTURE ARE CONTINUOUSLY  
SHEATHED WITH 1/2" OSB TO COMP WITH THE BRACE  
REQUIREMENTS USING METHOD CS-1/2P. ANY  
WALL AREAS THAT REQUIRE ALTERNATE BRACING METHODS  
AND LABELED WITH SPECIFIC METHOD REQUIRED.  
(SEE GARAGE NARROW WALL DETAIL ON SHEET #1)  
THIS SHEATHING SHALL EXTEND AND BE ATTACHED TO THE SILL  
AND CAP PLATES OF THE WALLS. THE MUD SILL PLATES SHALL BE ANCHORED  
TO THE FOUNDATION WITH A MIN. OF 1/2" DIA. BOLTS SPACED NO MORE THAN  
6'-0" O.C. OR 1/2" DIA. EXPANSION BOLTS AT 48" O.C. THESE ANCHOR BOLTS  
SHALL BE LOCATED BETWEEN 8" AND 12" FROM THE CORNERS AND ON EITHER  
SIDE OF DOORS THAT HAVE A THRESHOLD BELOW THE SILL PLATE.

PER METHOD CS-1/2P ALL HORIZONTAL JOINTS IN THE SHEATHING  
WILL BE BLOCKED TO ACCOMMODATE THE CODE SPECIFIED  
FASTENING REQUIREMENTS OF:  
6" O.C. AT EDGES AND 12" O.C. IN THE INTERIOR OF THE  
PANELS USING 8d COMMON NAILS

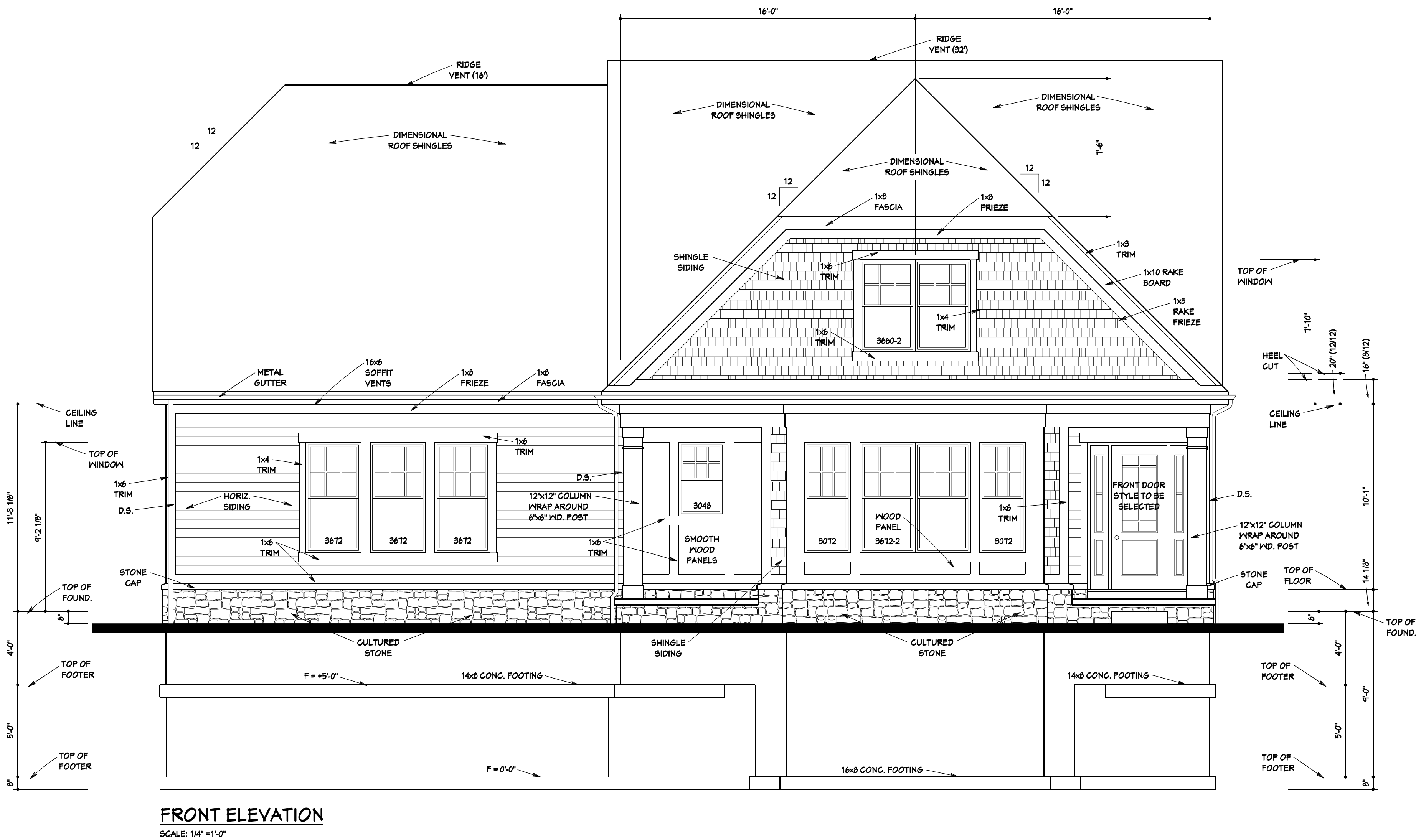
OR ALTERNATE METHOD OF  
3" O.C. AT EDGES AND 6" O.C. IN THE INTERIOR OF THE  
PANELS USING 16GA. 3/8" CROWN STAPLES, 1 5/8" LONG.

ANY TRUSS HEELS OVER 1 1/4" WILL HAVE OSB EXTENDED TO WITHIN  
2" OF THE UNDERSIDE OF THE RAFTER TAIL AND FASTENED IN THE SAME  
MANNER. TRUSS HEEL SHEATHING MUST SPAN ACROSS THE TOP  
PLATE/TRUSS CONNECTION OR EXTEND DOWN THE WALL AT LEAST  
24" AND THE SAME HORIZONTAL BLOCKING MUST BE PROVIDED  
BETWEEN THE TRUSS FOR NAILING AS SPECIFIED ABOVE.





**703.6.2.1 Weep Screeds.** A minimum 0.019 (0.5mm) (No. 26 galvanized sheet gauge), corrosion-resistant weep screed or plastic weep screed, with a minimum vertical attachment flange of 3-½ inches (89 mm) shall be provided at or below the foundation plate line on exterior stud walls in accordance with ASTM C 926. The weep screed shall be placed a minimum of 4 inches (102 mm) above the earth or 2 inches (51 mm) above paved areas and shall be a type that will allow trapped water to drain to the exterior of the building. The weather-resistant barrier shall lap the attachment flange. The exterior lath shall cover and terminate on the attachment flange of the weep screed.



No.		BY		REVISIONS	
DATE					

SCALE 1/4" = 1'-0"		DRN. LF		CHK.		PLOT		PLOT		PLOT		PLOT	

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Front Elevation

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LARRY EUGENE FOLK 10772

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Expiration Date 12/31/2018

PRELIMINARY

BIDDING

CONSTRUCTION

BOB WEBB

Manchester

11450 Canby Ct.

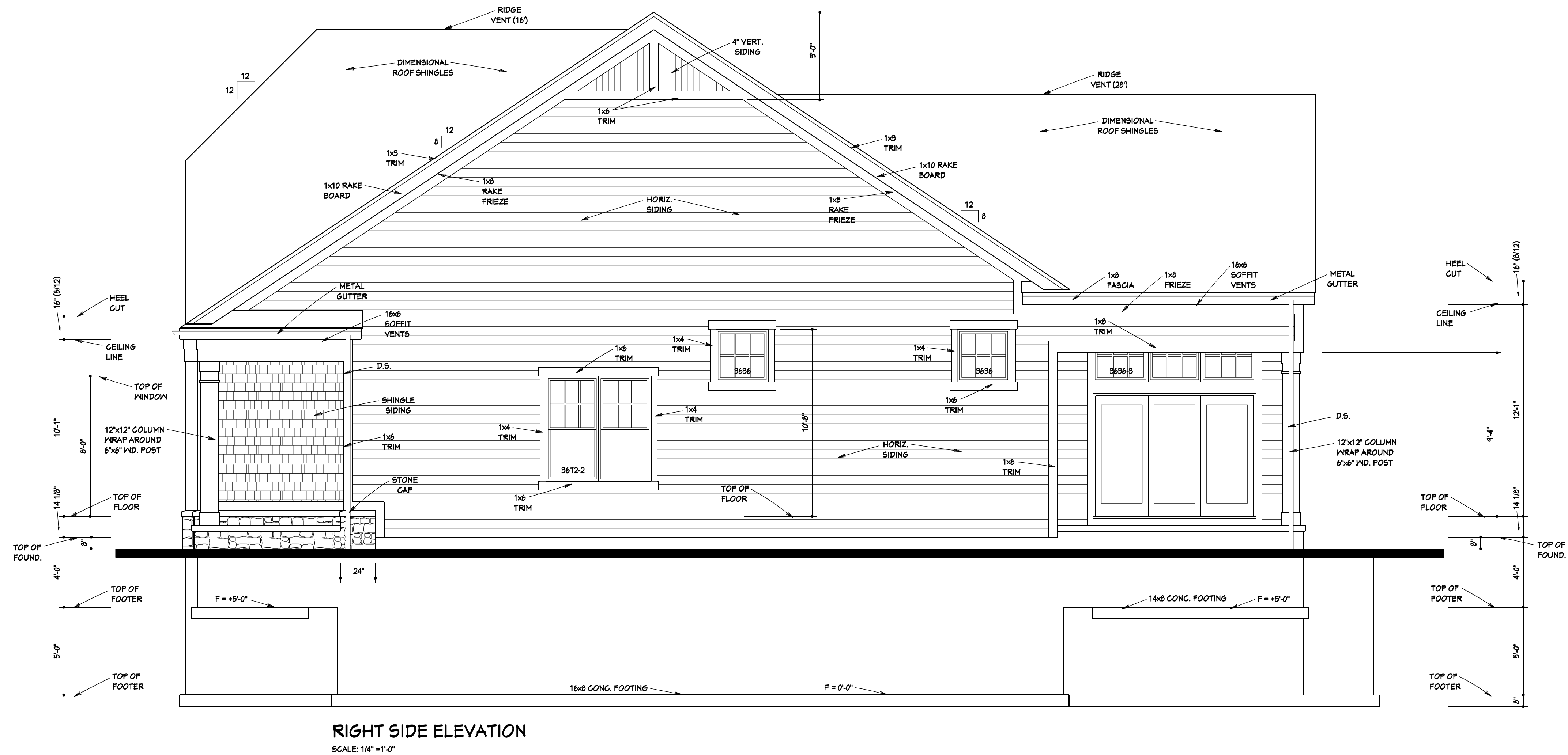
Lot 621 Canby Ct.

Model - Basement

Job No. 2018-108

Sheet No. 4-A





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Right Side Elevation

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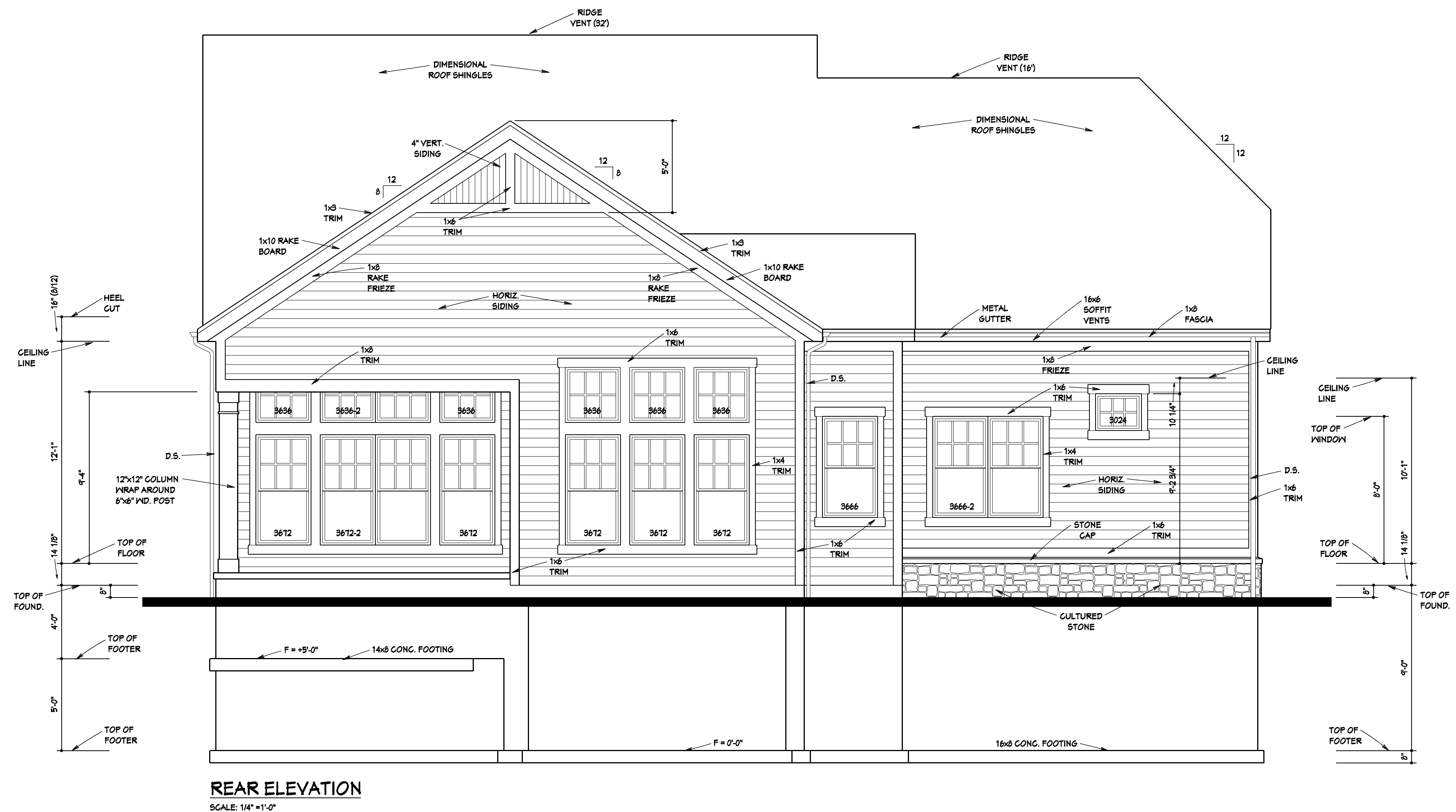
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BIDDING  
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**BOB WEBB**  
Manchester  
11450 Canby Ct.  
Lot 621 Canby Ct.  
Model - Basement

Job No. 2018-108  
Sheet No. 4-B





No.	DATE	BY	REVISIONS

SCALE 1/4" = 1'-0"	DRN	LF	03-28-2018	CHK		PLOT	LF	03-28-2018		PLOT		PLOT		PLOT	
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Rear Elevation

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STATE OF OHIO  
LARRY EUGENE FOLK  
10772  
REGISTERED ARCHITECT

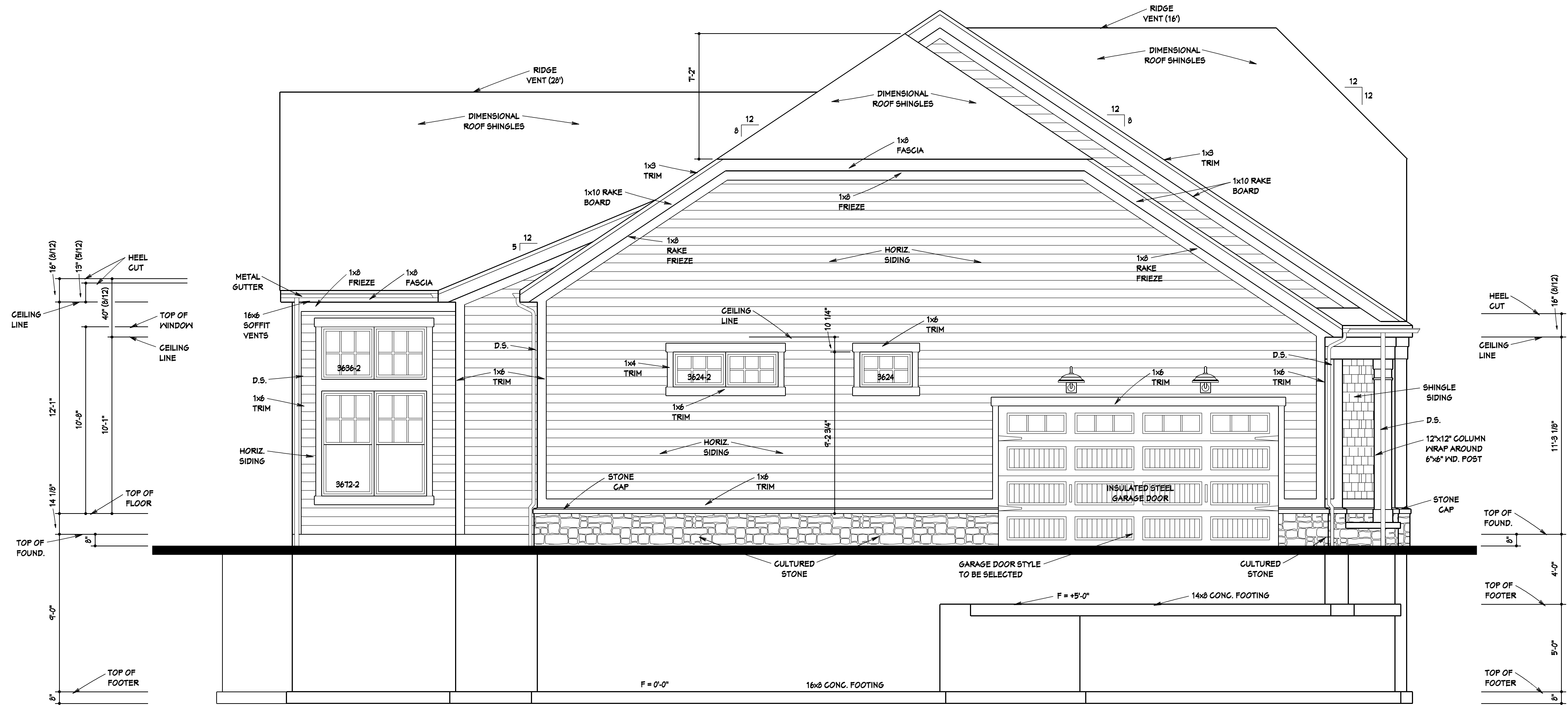
Larry Folk - License #10772  
Expiration Date 12/31/2018

PRELIMINARY ☐  
BIDDING ☐  
CONSTRUCTION ☐

  
**BOB WEBB**  
Manchester  
11450 Canby Ct.  
Lot 621 Canby Ct.  
Model - Basement

Job No.	Sheet No.
2018-108	4-C





LEFT SIDE ELEVATION  
SCALE: 1/4" = 1'-0"

REVISIONS	
NO.	DATE

SCALE 1/4" = 1'-0"	
DRN.	CHK.
LF	LF
03-28-2018	03-28-2018

LEF Architects, LLC

Left Side Elevation

LEF Architects, LLC

Residential - Commerical

"Fine Architecture .... by Design"

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STATE OF OHIO

LARRY EUGENE FOLK 10772

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Expiration Date 12/31/2018

PRELIMINARY BIDDING CONSTRUCTION

BOB WEBB

Manchester

11450 Canby Ct.

Lot 621 Canby Ct.

Model - Basement

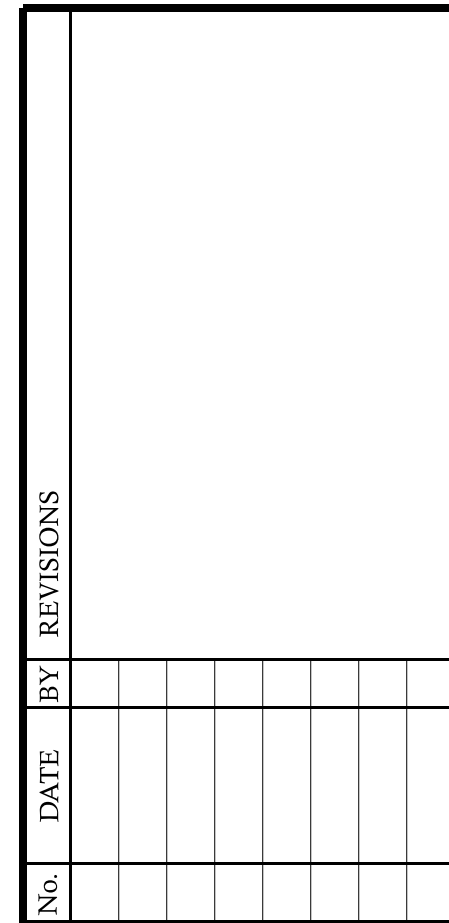
Job No. 2018-108

Sheet No. 4-D



ALL TRUSSES SHALL BE DESIGNED BY MANUFACTURER.  
THE TRUSS MANUFACTURER SHALL SPECIFY THE FOLLOWING:

1. BEARING REACTIONS EXERCISED BY THEIR PRODUCT.
2. CONNECTORS OR HANGERS FOR ALL MEMBERS SUPPORTED BY THEIR PRODUCT.
3. NAILING AND OR BOLTING REQUIREMENTS FOR MULTIPLE TRUSSES.
4. TRUSS BRACING LOCATION AND NAILING REQUIREMENTS.




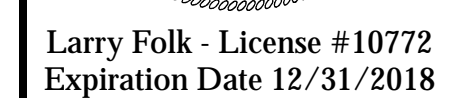
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Stair and Wall Sections

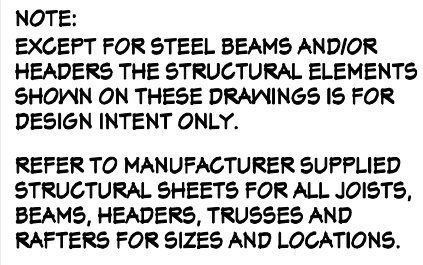
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**BOB WEBB**  
**Manchester**  
**11450 Canby Ct.**  
**Lot 621 Canby Ct.**  
**Model - Basement**





**NOTE:**  
EXCEPT FOR STEEL BEAMS AND/OR  
HEADERS THE STRUCTURAL ELEMENTS  
SHOWN ON THESE DRAWINGS IS FOR  
DESIGN INTENT ONLY.

**REFER TO MANUFACTURER SUPPLIED  
STRUCTURAL SHEETS FOR ALL JOISTS,  
BEAMS, HEADERS, TRUSSES AND  
RAFTERS FOR SIZES AND LOCATIONS.**

SCALE		1/4" = 1'-0"
DRN.	LF	03-28-2018
CHK.		
PLOT	LF	03-28-2018
PLOT		
PLOT		
PLOT		
PLOT		
PLOT		

# First Floor First Floor Framing Plan

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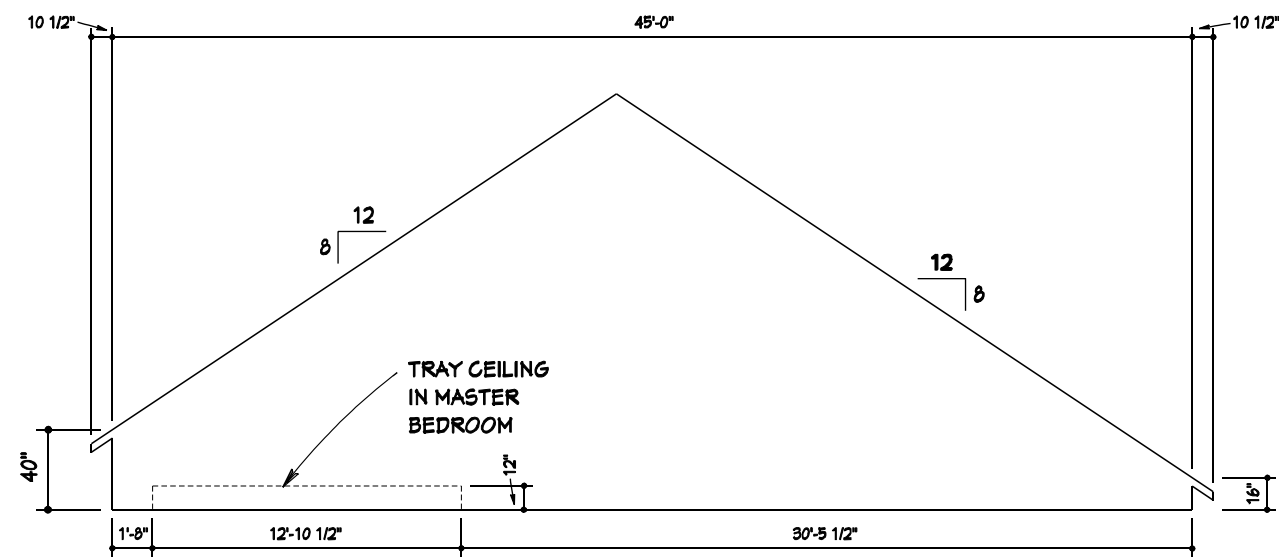
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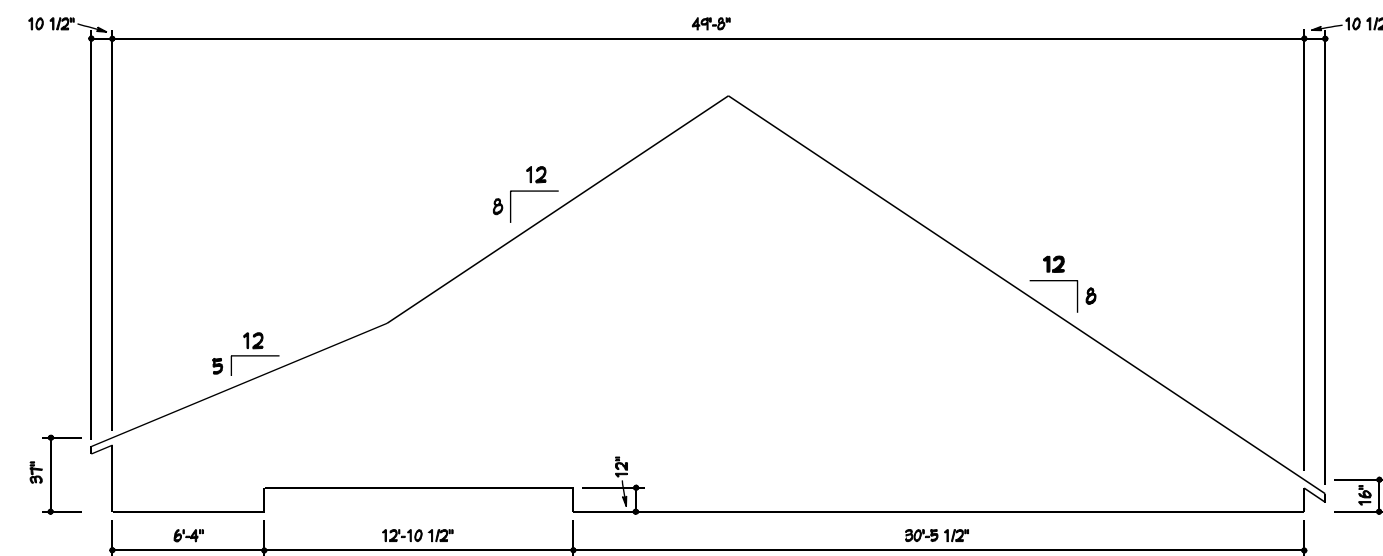
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Manchester  
11450 Canby Ct.  
Lot 621 Canby Ct.  
Model - Basement

Job No.	Sheet No.
<b>2018-108</b>	<b>F-2</b>

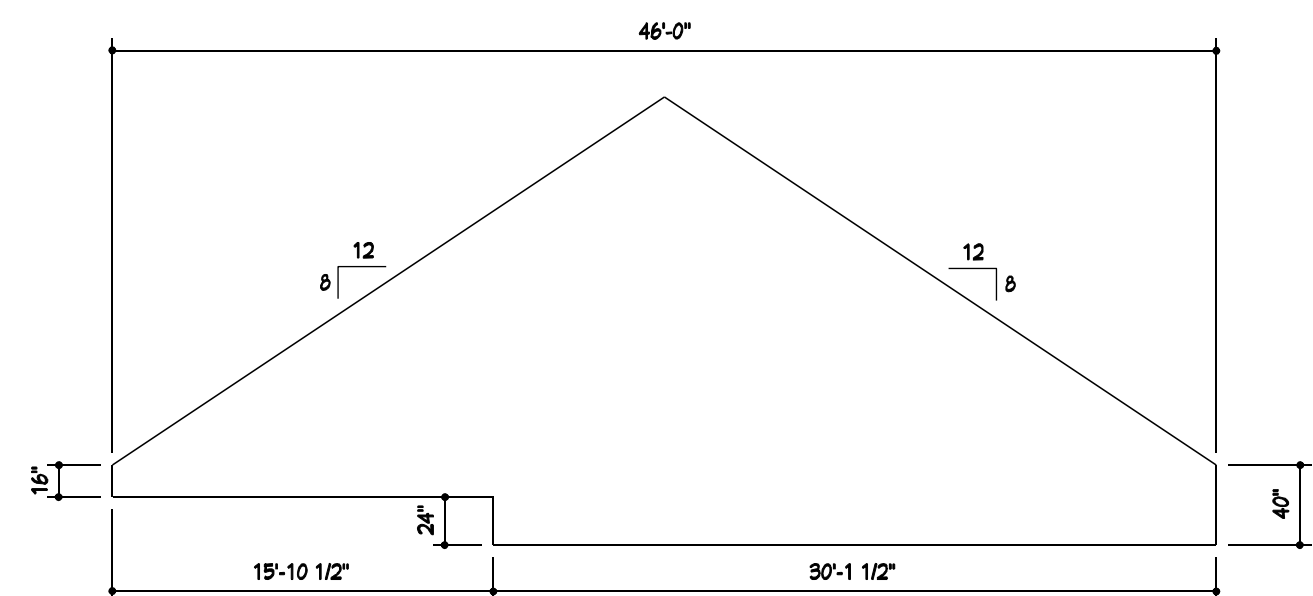




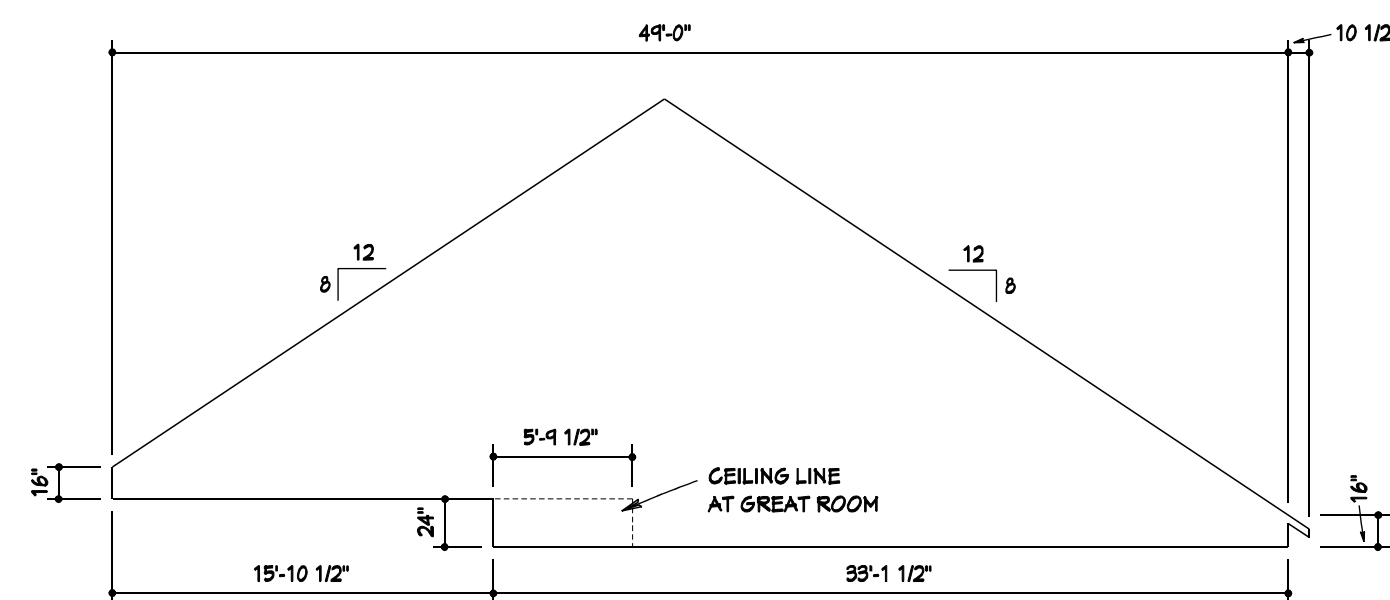
**TRUSS T-1**  
SCALE: 1/8" = 1'-0"



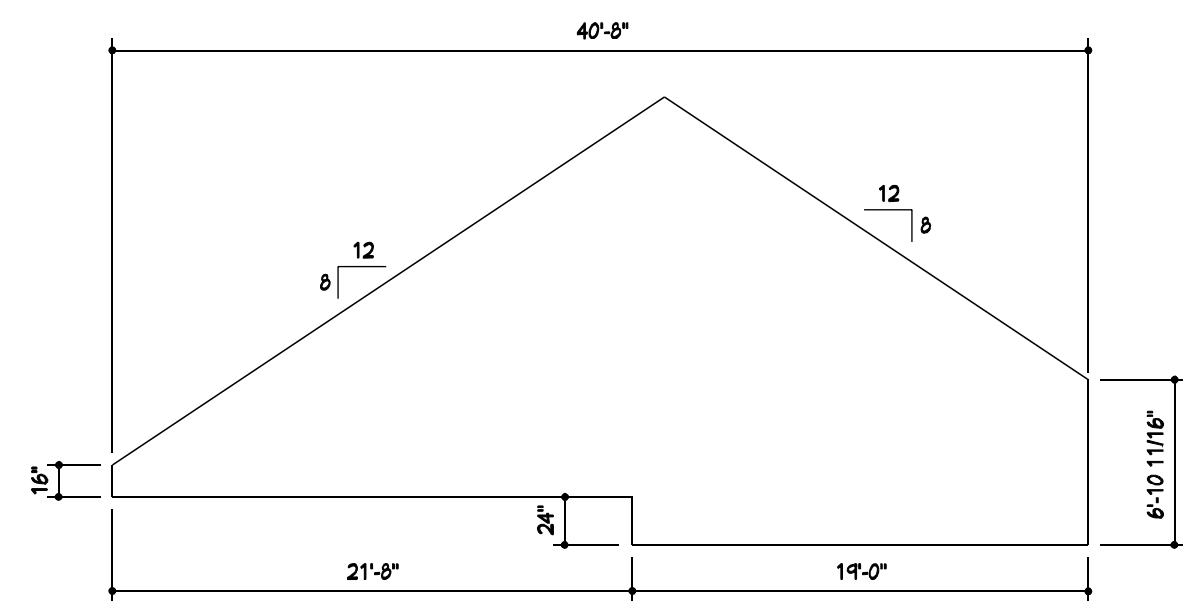
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SCALE: 1/8" = 1'-0"



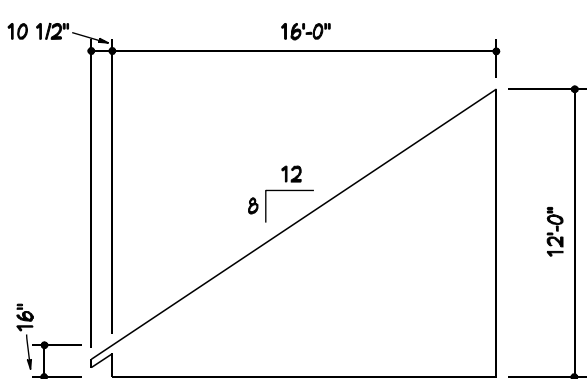
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SCALE: 1/8" = 1'-0"



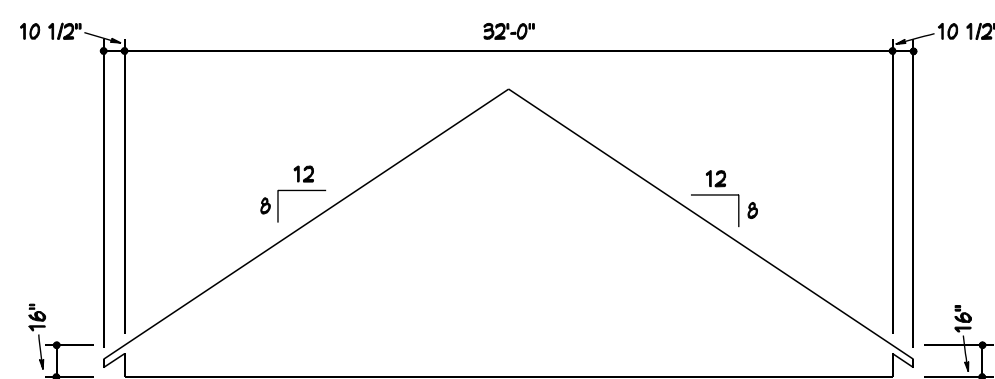
**TRUSS T-4**  
SCALE: 1/8" = 1'-0"



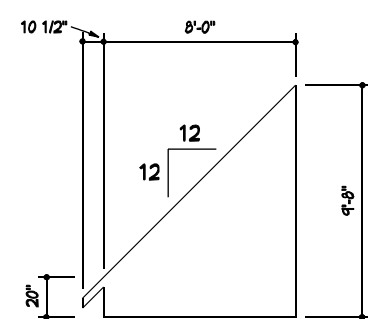
**TRUSS T-5**  
SCALE: 1/8" = 1'-0"



**TRUSS T-6**  
SCALE: 1/8" = 1'-0"



**TRUSS T-7**  
SCALE: 1/8" = 1'-0"

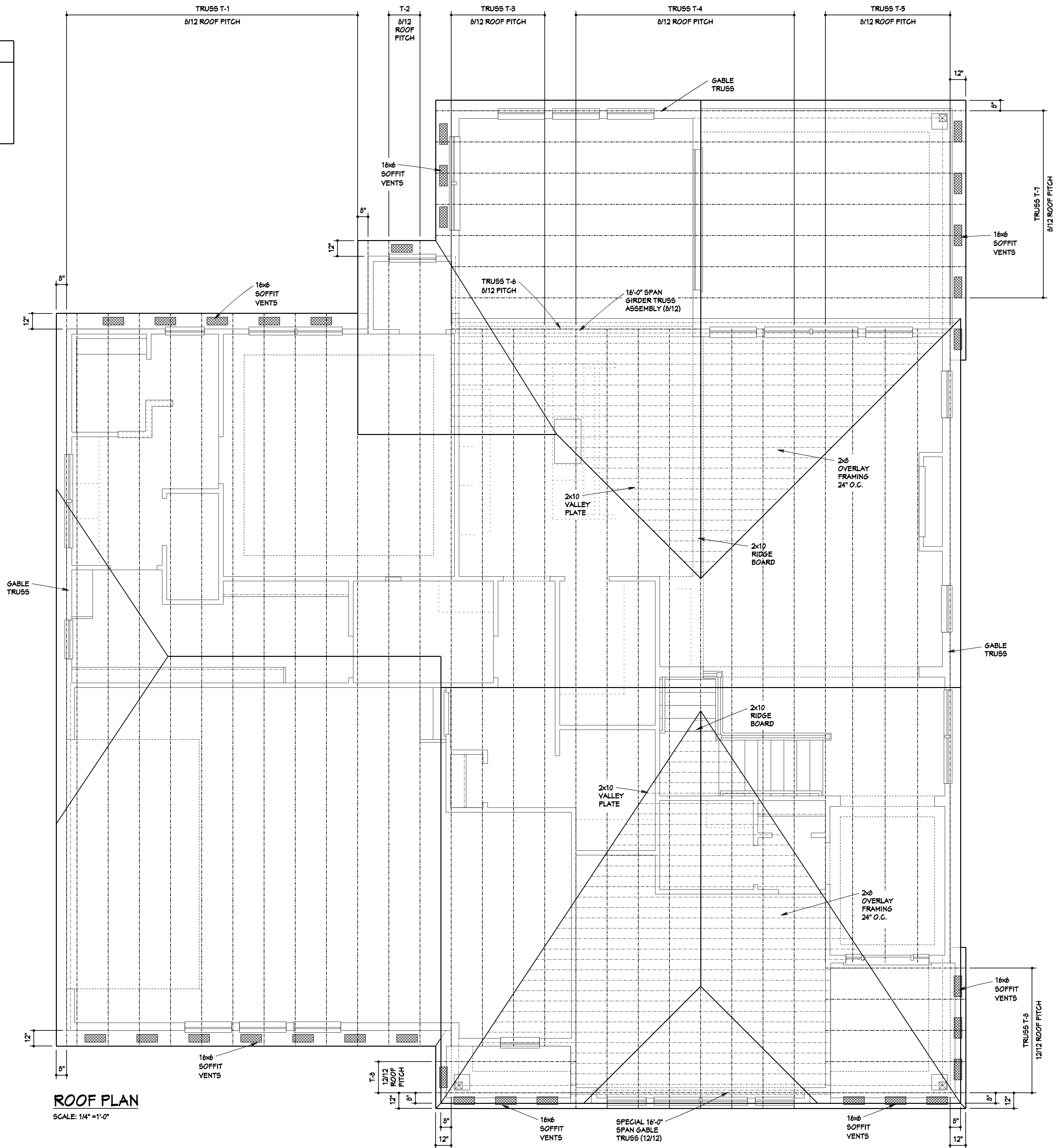


**TRUSS T-8**  
SCALE: 1/8" = 1'-0"

**TRUSS MANUFACTURER NOTE:**

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3. NAILING AND OR BOLTING REQUIREMENTS FOR MULTIPLE TRUSSES.
4. TRUSS BRACING LOCATION AND NAILING REQUIREMENTS.



**ROOF PLAN**  
SCALE: 1/4" = 1'-0"

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Roof Plan  
Truss Details

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LARRY EUGENE FOLK  
10772

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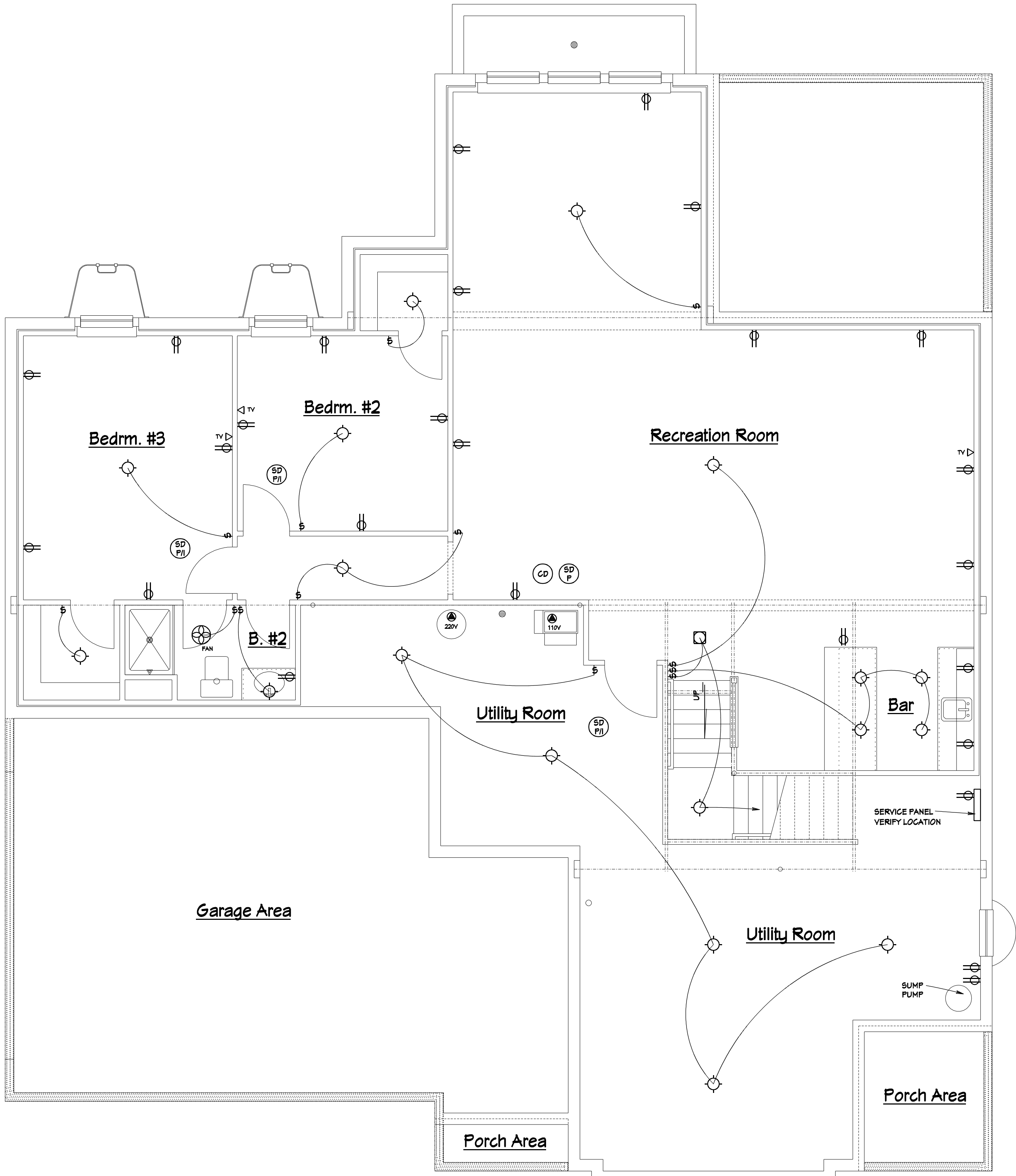
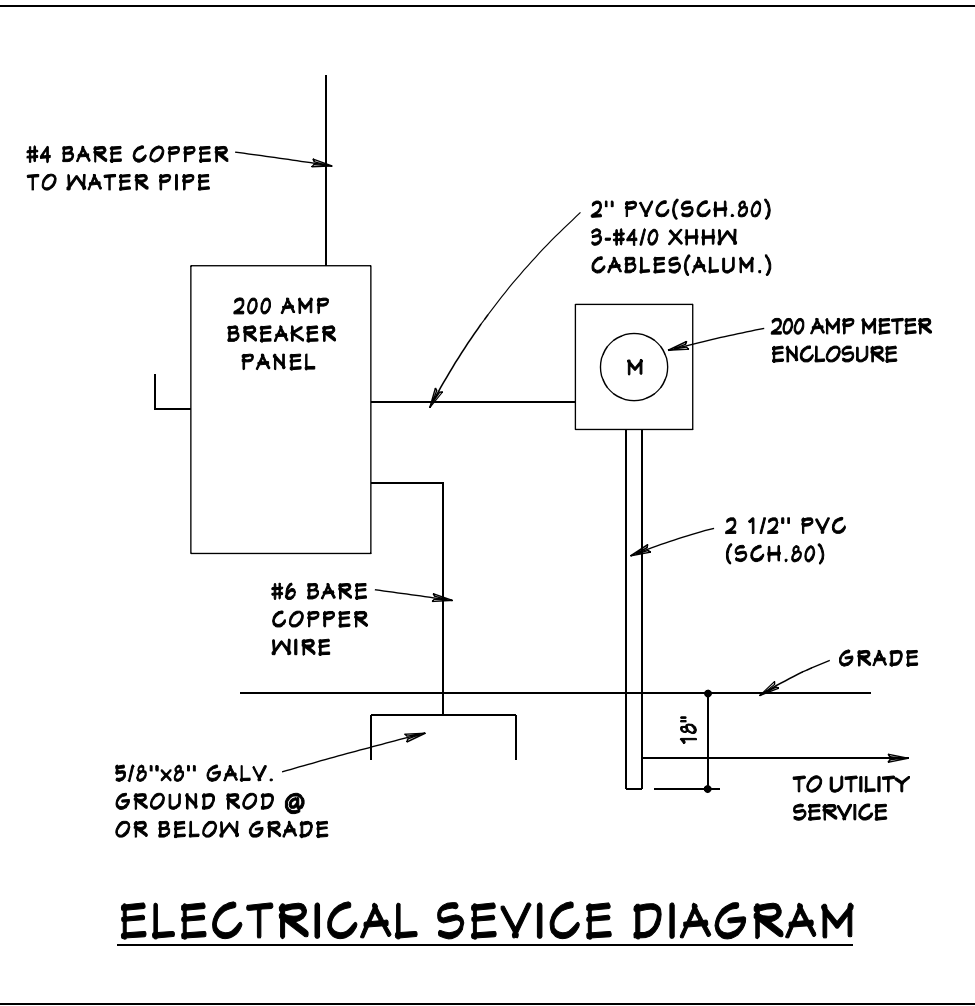
**BOB WEBB**  
Manchester  
11450 Canby Ct.  
Lot 621 Canby Ct.  
Model - Basement

Job No. Sheet No.  
**2018-108 F-3**



GROUNDING ELECTRODE  
SYSTEM INSTALLATION

- A) ROD, PIPE, AND PLATE ELECTRODES SHALL MEET THE REQUIREMENTS OF N.E.C. 250.53 (A)(3)
- 1) IF PRACTICABLE, ROD, PIPE & PLATE RELATED ELECTRODES SHALL BE EMBEDDED BELOW PERMANENT MOISTURE LEVEL. ROD, PIPE & PLATE ELECTRODES SHALL BE FREE FROM NON-CONDUCTIVE COATINGS SUCH AS PAINT OR ENAMEL.
- 2) A SINGLE ROD, PIPE OR PLATE ELECTRODE SHALL BE SUPPLEMENTED BY AN ADDITIONAL ELECTRODE OF A TYPE SPECIFIED IN 250.52(A)(2) THROUGH (A)(6). THE SUPPLEMENTAL ELECTRODE SHALL BE PERMITTED TO BE BUNDLED TO ONE OF THE FOLLOWING:
- 1) ROD, PIPE OR PLATE ELECTRODE  
2) GROUNDING ELECTRODE CONDUCTOR  
3) GROUNDED SERVICE ENTRANCE CONDUCTOR  
4) NONFLEXIBLE GROUNDED SERVICE RACEWAY  
5) ANY GROUNDED SERVICE ENCLOSURE
- 3) IF MULTIPLE ROD, PIPE OR PLATE ELECTRODES ARE INSTALLED TO MEET THE REQUIREMENTS OF THIS SECTION, THEY SHALL NOT BE LESS THAN 6' APART.
- B) WHERE MORE THAN ONE OF THE ELECTRODES OF THE TYPE SPECIFIED IN 25.52(A)(5) OR (A)(1) ARE USED, EACH ELECTRODE OF ONE OF GROUNDING SYSTEM(INCLUDING THAT USED FOR STRIKE TERMINATION DEVICES) SHALL NOT BE LESS THAN 6' FROM ANY OTHER ELECTRODE OF ANY OTHER GROUNDING SYSTEM. TWO OR MORE GROUNDING ELECTRODES THAT ARE BONDED TOGETHER SHALL BE CONSIDERED A SINGLE ELECTRODE GROUNDING SYSTEM.
- C) THE BONDING JUMPER(S) USED TO CONNECT THE GROUNDING ELECTRODES TOGETHER TO FROM THE GROUNDING ELECTRODE SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH 250.66 AND SHALL BE CONNECTED IN THE MANNER SPECIFIED IN 250.10.



ELECTRICAL NOTES

- 1) ALL ELECTRICAL WIRING TO BE INSTALLED PER N.E.C. 2014
- 2) ELECTRICAL SERVICE LOAD SHALL BE CALCULATED PER N.E.C. ARTICLE 220
- 3) GENERAL USE OUTLETS SHALL BE INSTALLED PER N.E.C. 210.52
- 4) THERE SHALL BE AT LEAST (2)-20 AMP SMALL APPLIANCE CIRCUITS TO FEED ALL WALL AND FLOOR OUTLETS IN THE KITCHEN, PANTRY, BREAKFAST ROOM, DINING ROOM OR SMALLER AREAS.
- 5) OUTLETS INSTALLED ALONG KITCHEN SPACES, ISLANDS & PENINSULAS SHALL BE SPACED PER N.E.C. 210.52 C(1), (2) AND (3)
- 6) THERE SHALL BE AT LEAST (1)-20 AMP CIRCUIT TO SUPPLY BATHROOM RECEPTACLE OUTLETS PER N.E.C. 210.10 C(3)
- 7) THERE SHALL BE AT LEAST (1)-20 AMP CIRCUIT TO SUPPLY THE LAUNDRY ROOM PER N.E.C. 210.10 C(2) AND 210.52 F
- 8) ALL RECEPTACLE OUTLETS IN UNFINISHED BASEMENTS, GARAGES AND ON THE EXTERIOR OF THE HOUSE SHALL BE GFCI PROTECTED PER N.E.C. 210.8
- 9) ALL 120 VOLT 15 AND 20 AMP BRANCH CIRCUITS SUPPLYING OUTLETS INSTALLED IN: FAMILY RM, DINING RM, LIVING RM, PARLOR, LIBRARY, DEN, BEDROOMS, SUN ROOM, REC ROOM, CLOSET, HALLWAY OR SMALLER ROOMS SHALL BE ARC-FAULT PROTECTED PER N.E.C. 210.12 B
- 10) ALL CEILING AND WALL MOUNT LIGHT BOXES WILL BE RATED TO HOLD AT LEAST 50 POUNDS PER N.E.C. 314.21 A
- 11) ALL 15 AND 20 AMP VOLT RECEPTACLE OUTLETS REQUIRED BY N.E.C. 210.52 SHALL BE LISTED AS TAMPER RESISTANT
- 12) ALL STANDARD NON-LOCKING RECEPTACLE OUTLETS MOUNTED IN DAMP OR WET LOCATIONS SHALL HAVE AN IN-USE TYPE COVER AND SHALL BE LISTED WEATHER RESISTANT
- 13) LIGHTING SHALL BE PROVIDED TO ADEQUATELY LIGHT EACH STAIRWAY PER OBC WITH CONTROL SWITCHES @ THE TOP AND BOTTOM OF EACH STAIRWAY CONSISTING OF (6) TREADS OR MORE
- 14) 120 VOLT INTERCONNECTED SMOKE DETECTORS SHALL BE INSTALLED ON EACH FLOOR AND EACH BEDROOM AND OUTSIDE EACH BEDROOM WITHIN 15 FEET OF THE BEDROOM DOOR

ALL OUTLETS & SWITCHES  
ARE ARC FAULT PROTECTED

ALL KITCHEN-BATH-GARAGE-  
LAUNDRY RM. AND EXTERIOR  
OUTLETS ARE GFCI PROTECTED

FINAL FIXTURE LAYOUT, QUANTITY  
AND TYPE TO BE DETERMINED  
ON SITE WITH THE BUYER  
AND ELECTRICAL CONTRACTOR

ELECTRICAL LEGEND

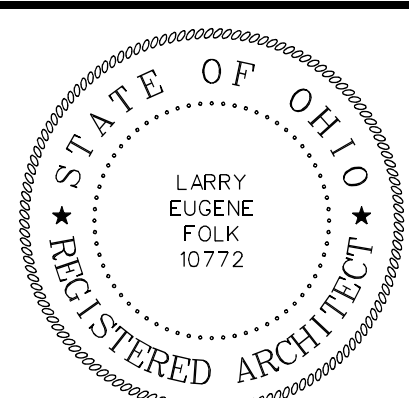
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- CEILING FIXTURE
- ⊕ CEILING EXHAUST FAN
- ⊕ CEILING EXHAUST FAN w/LIGHT
- ⊕ CEILING FAN w/LIGHT
- SD PHOTOELECTRIC SMOKE DETECTOR
- SD PHOTOELECTRIC SMOKE DETECTOR
- CD CARBON MONOXIDE DETECTOR

LEF Architects, LLC

Basement  
Electric Plan

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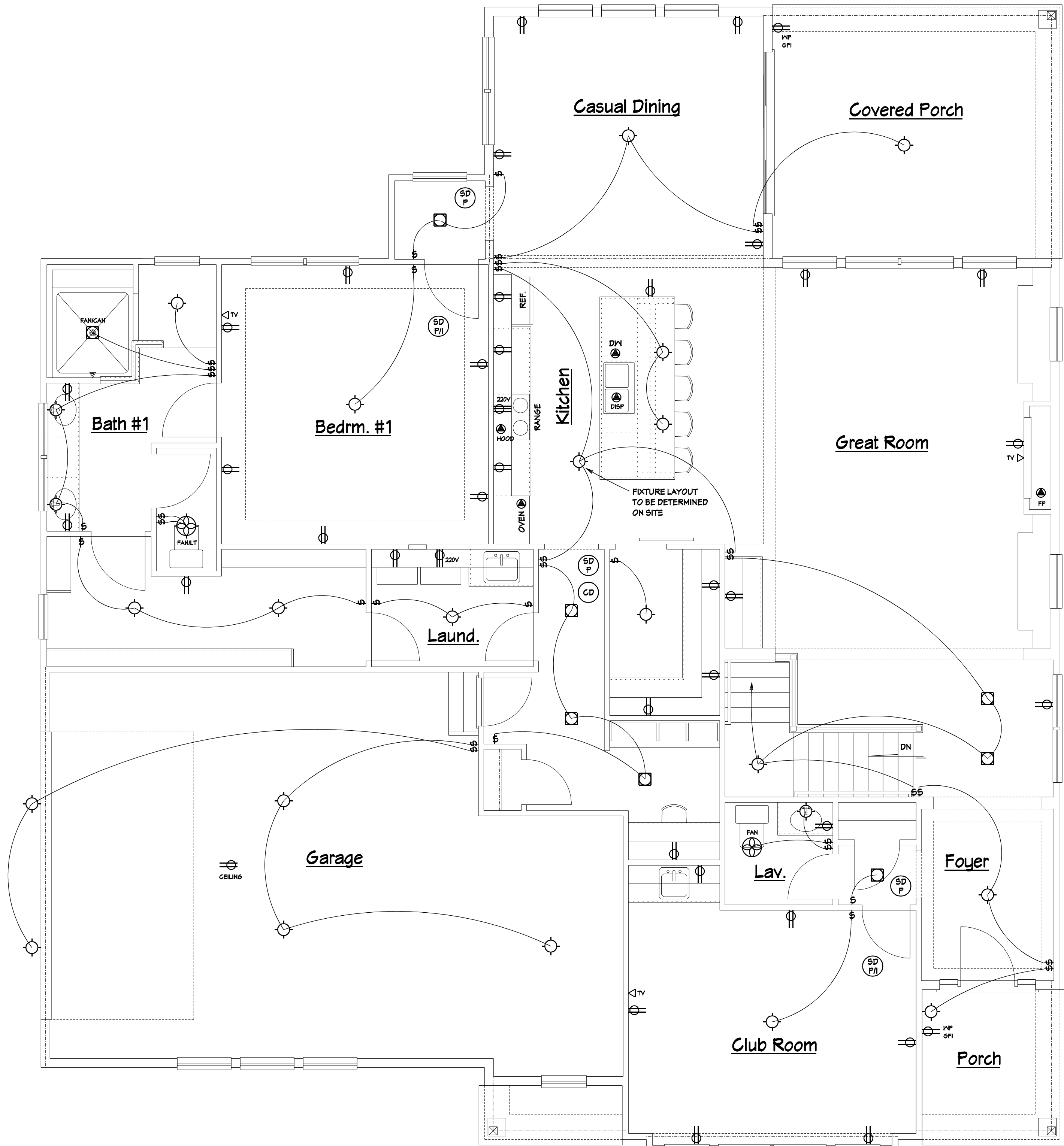
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BIDDING  
CONSTRUCTION

BOB WEBB  
Manchester  
11450 Canby Ct.  
Lot 621 Canby Ct.  
Model - Basement

Job No. Sheet No.  
2018-108 E-2





ELECTRICAL NOTES

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- 8) ALL RECEPTACLE OUTLETS IN UNFINISHED BASEMENTS, GARAGES AND ON THE EXTERIOR OF THE HOUSE SHALL BE GFCI PROTECTED PER N.E.C. 210.8
- 9) ALL 120 VOLT 15 AND 20 AMP BRANCH CIRCUITS SUPPLYING OUTLETS INSTALLED IN: FAMILY RM, DINING RM, LIVING RM, PARLOR, LIBRARY, DEN, BEDROOMS, SUN ROOM, REC ROOM, CLOSET, HALLWAY OR SMALLER ROOMS SHALL BE ARC-FAULT PROTECTED PER N.E.C. 210.12 B
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ALL OUTLETS & SWITCHES ARE ARC FAULT PROTECTED

ALL KITCHEN-BATH-GARAGE-LAUNDRY RM. AND EXTERIOR OUTLETS ARE GFCI PROTECTED

FINAL FIXTURE LAYOUT, QUANTITY AND TYPE TO BE DETERMINED ON SITE WITH THE BUYER AND ELECTRICAL CONTRACTOR

ELECTRICAL LEGEND

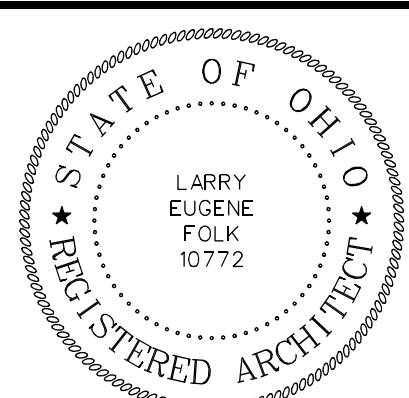
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- CEILING FIXTURE
- ⊕ CEILING EXHAUST FAN
- ⊕ CEILING EXHAUST FAN w/LIGHT
- ⊕ CEILING FAN w/LIGHT
- SD PI SMOKE DETECTOR PHOTOELECTRIFICATION
- SD F SMOKE DETECTOR PHOTOELECTRIC
- CD CARBON MONOXIDE DETECTOR

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First Floor  
Electric Plan

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2018-108 E-3