



April 11, 2018

D & D Building
PO Box 7014
Lee's Summit, MO 64064

Re: 4716 NE Pocono Cir
Lot 37 Monticello
Lee's Summit, MO
Permit #: PRRES 2017-3808

Apex Engineers Inc. observed the house plans for the above referenced address. For the purpose of this report, the house will be referred to as facing east. Our firm was retained to address the following city comments from the rough-in inspection:

1. Nail all exterior CSPF wall siding per code.
 - a. Reference attached 1/S4.1 detail provided by our firm that appears similar to the A/4 detail mentioned on the approved plans.
2. Frame CSPF walls per A/4 plan detail. (great room and dining)
 - a. Reference attached 1/S4.1 detail provided by our firm that appears similar to the A/4 detail mentioned on the approved plans.
 - b. All headers shall be a minimum 3" x 11-1/4" net header per 2012 IRC.
3. Expose rear patio framing support.
 - a. Rafter ties were not placed per plan.
 - b. Rafter ties shall be in the lower third of the rafters.
 - c. Rafter ties shall be attached to the rafters with minimum (4) 16d common nails.
4. Engineer to address non-continuous 2x6 studs at rear great room wall.
 - a. Each stud at the mid-plate of the wall shall be strapped with a minimum Simpson CS14 strap.
 - i. This strap shall extend a minimum of 16" on to each stud above and below the break in the wall.
 - ii. Fill all nail holes per manufacturers specifications.
5. Cut joist below master toilet.
 - a. (1) full length joist was added next to the existing notched joist. This will be adequate to replace the notched joist.
6. Provide solid blocking support underneath foyer and underneath dining I-beam.
 - a. All columns shall be solid blocked through the joist bays and down to the foundation.

Our firm recommends approval of these structural items. This report does not constitute approval by the enforcing jurisdiction.

LIMITATIONS

The scope of our services includes only those items specifically addressed herein. All other items are outside the scope of this report; including any environmental assessment (such as, but not limited to mold, mildew, or presence of any other toxic substance or environmental risks).

In addition, the scope our services does not include any evaluation of the building or site for job-site safety and/or hazardous conditions. All construction shall be performed in compliance with IRC and OSHA standards at all times. Our firm has not been retained to examine the site or building for any of these conditions. In addition, the contractor shall retain sole responsibility for



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8301 NE 89th St
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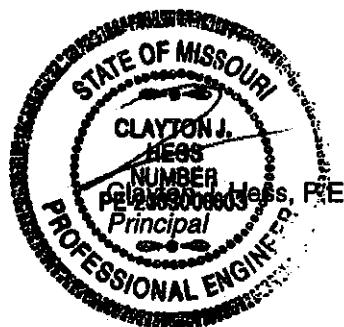
the quality of work, for adhering to plans, specifications, appropriate codes, and, for repairing defects, deficiencies or omission, regardless of when they are found. By the use of this report it is understood the above conditions are agreed to.

Please call if Apex Engineers, Inc. can be of further assistance.

Best Regards,
Apex Engineers, Inc.

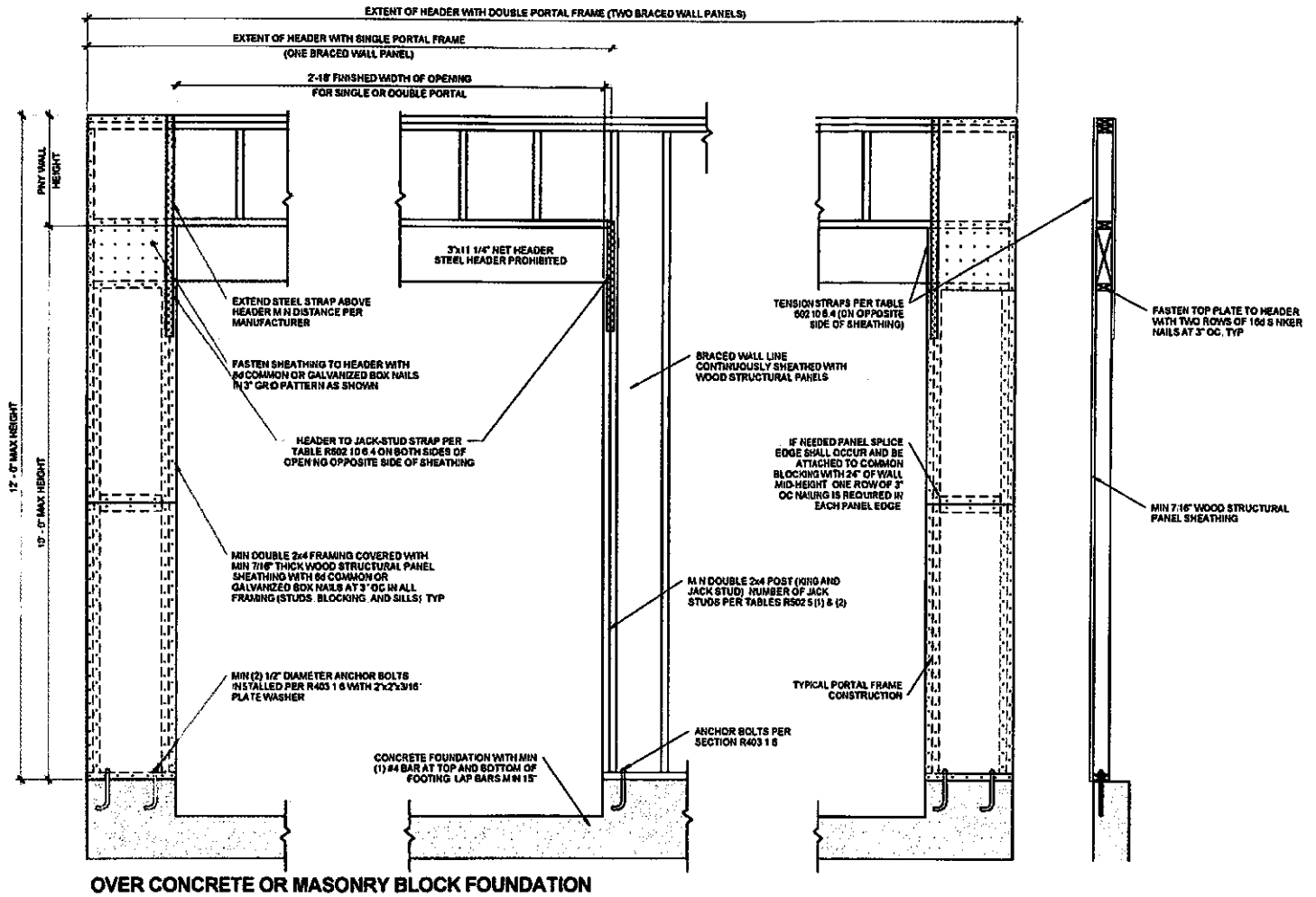
A handwritten signature in black ink, appearing to read 'Blake Hollingshead', with a stylized flourish at the end.

Blake O. Hollingshead, E.I.T.
Project Engineer

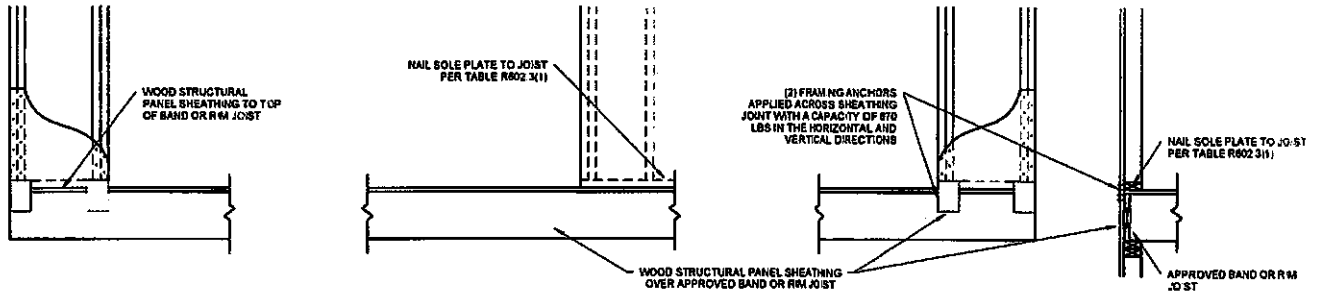


4716 NE POLONO CIR

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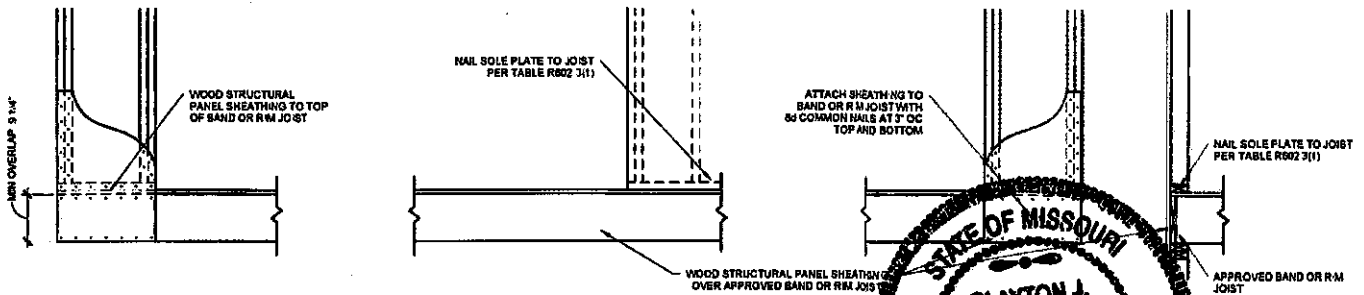


OVER CONCRETE OR MASONRY BLOCK FOUNDATION



OVER RAISE WOOD FLOOR - FRAMING ANCHOR OPTION

(WHEN PORTAL SHEATHING DOES NOT LAP OVER BAND OR R/M JOIST)

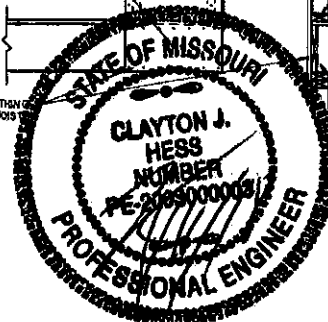


OVER RAISE WOOD FLOOR - OVERLAP OPTION

(WHEN PORTAL SHEATHING LAPS OVER BAND OR R/M JOIST)

BRACED WALL PANEL-IRC METHOD
CS-PF CONTINUOUSLY SHEATHED
PORTAL FRAME PANEL CONSTRUCTION

S4.1 3/4" = 1'-0" (PER IRC R502.10.6.4)





Project Information

Project
Client
Engineer

4716 NE Pocono Cir
D & D Builders
Blake Hollingshead

Broken Wall Calculation

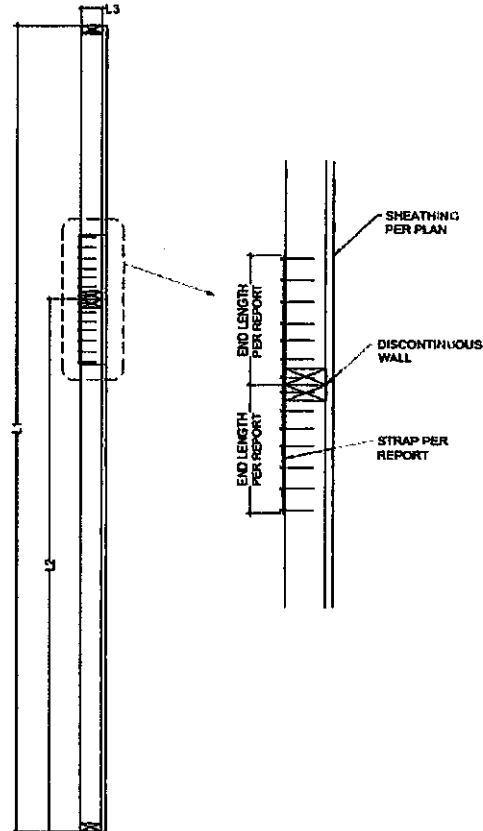
Studs at Great Room Windows

L1	19	ft
L2	7	ft
L3	5.5	in
Stud Spacing	36	in

Wind Load	43.20	plf
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Moment (A)	1.8144	kft
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Tension and Compression	3959	lbs
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Model No.	Total L	Ga	DF/SP		SPF/HF		Allowable Tension Loads (160)	Code Ref.
			Fasteners	End Length	Fasteners	End Length		
CMST12	40	12	160	160	160	160	9215	14, L3, F2
			74 - 16d	33'	84 - 16d	38'	9215	
CMST14	52 1/2	14	86 - 10d	39'	98 - 10d	44'	6490	
			56 - 16d	26'	66 - 16d	30'	6490	
CMSTC16	54	16	66 - 10d	30'	76 - 10d	34'	4585	
			50 - 16d sinker	20'	58 - 16d sinker	25'	2490	
CS14	100	14	26 - 10d	15'	30 - 10d	16'	2490	
			30 - 8d	16'	36 - 8d	19'	1705	
CS16	150	16	20 - 10d	11'	22 - 10d	12'	1705	
			22 - 8d	13'	26 - 8d	14'	1370	
CS18	200	18	16 - 10d	9'	18 - 10d	10'	1370	
			18 - 8d	11'	22 - 8d	12'	1030	
CS20	250	20	12 - 10d	6'	14 - 10d	8'	1030	
			14 - 8d	9'	16 - 8d	9'	845	
CS22	300	22	10 - 10d	7'	12 - 10d	7'	845	
			12 - 8d	6'	14 - 8d	8'		

Simpson Straps

