

Walls R-15 Crawl R-19 Attic R-38

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Charles R. Field, P.E. 2<u>018.07.24 17:50:21 -04'00</u>

3615 East Broad Street

Building Permit Plans

Owner

SOJO Enterprises LLC 13000 Densmore Court Henrico, VA 23233

Engineer

Obsidian, Inc. Charles R. Field, P.E. 515 North 22nd Street Richmond, VA 23223 804.647.1589 obsidianrva@gmail.com

Table of Contents

Foundation & First Floor Plan Second & Third Floor Cross Section & Stair Plan

Property Information

Parcel ID	E0001290008, E0001290009
Zoning	R-8
Use	Residential Single Family
Setbacks	Front Yard ≤ 10 feet
	Side Yard ≥ 3 feet
	Rear Yard ≥ 5 feet
Lot Coverage	≤65%

Scope of Work

Scope of work will generally consist of the renovation of an existing structure in accordance with these plans and the IRC, 2012.

General Notes

- edition of the "International Residential Code", the Statewide Uniform Building Code and the applicable City of Richmond ordinances.
- 2. The contractor is responsible for compliance with City, State and Federal job site safety requirements.
- 3. The contractor shall verify all dimensions and conditions prior to start of work, and any discrepancies will immediately be brought to the attention of the engineer.
- 4. Glazing in windows shall be tempered if the bottom edge is less than 18" above floor, in walls enclosing bathtub or showers, within 24" of arc of either veritcal edge of a door, or less than 36" above the plane of stairways or landings. Glazing in all fixed and operable panels of swinging, sliding and bifold doors shall be tempered
- 5. All lumber unless otherwise noted is to be Southern Pine No. 2. 6. There will not be a fire sprinkler system.
- 7. There is no proposed fire detection system or alarm.
- 8. The construction type is V-B. There are X stories.
- 10. The occupancy class is X-#.
- 11. The occupancy is XXX people.12. IRC 2012 minimum insulation and fenestration requirements:
 - Fenestration U-factor: 0.35 Ceiling R-value: 38
 - Wood frame wall R-value: 15
 - Mass wall R-value: 8/13 • Floor R-value: 19
 - Basement wall R-value: 10/13 Slab R-value & depth: 10, 2ft
- Crawlspace wall R-value: 10/13 13. Load criteria: Bearing soil capacity = 2000 psf
 - Floor live load = 40 psf
 - Floor dead load = 10 psf Roof live load = 20 psf
 - Roof dead load = 10 psf
 - Snow loads = 20 psf
 Basic Wind speed = 90 mph
 Seismic Category: B.
 Exposure: B.

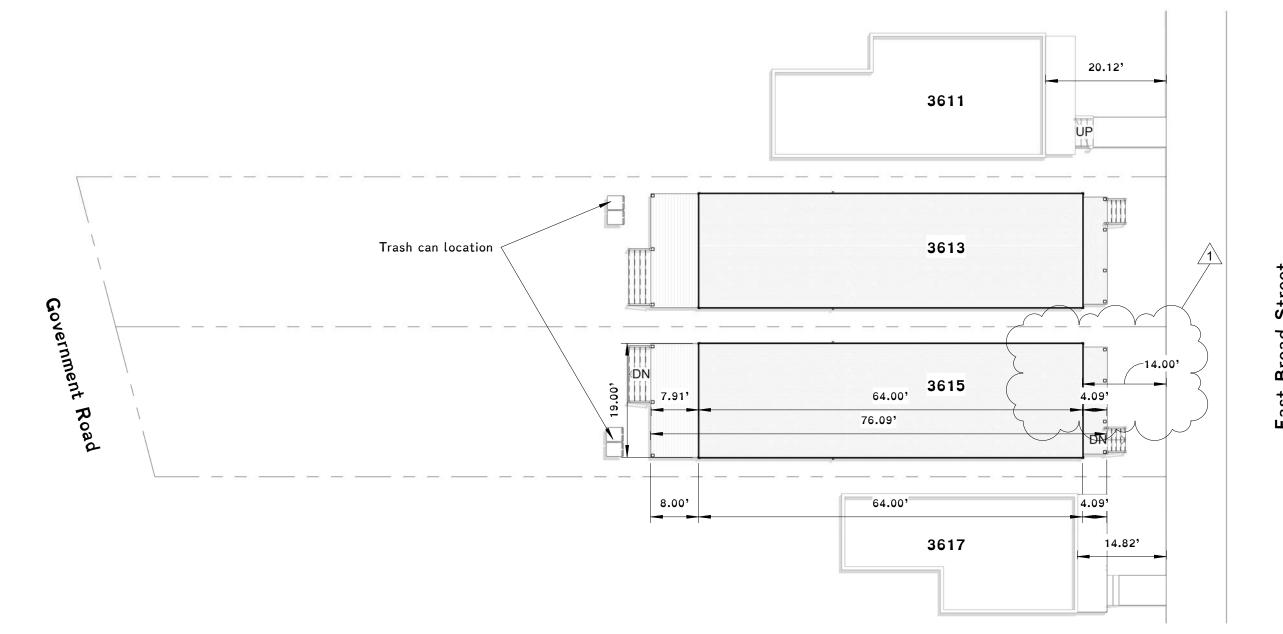
Window Schedule

Type Mark	Family	Count	Width	Height	Sill Height	Casing Quantity	Sill Quantity
Grade							
139	Foundation Vent	8			1'-0"	0"	0"
1st Floor							
138	Transom with Trim	2	3'-0"	1'-4"	6'-10 1/4"	11'-4"	7'-4"
140	Double Hung with Trim	2	2'-8"	5'-2"	1'-6"	26'-0"	6'-8"
140	Double Hung with Trim	10	2'-8"	5'-2"	2'-10"	130'-0"	33'-4"
140	Double Hung with Trim	4	2'-8"	5'-2"	3'-0 1/4"	52'-0"	13'-4"
142	Double Hung with Trim	2	2'-8"	4'-6"	3'-6"	23'-4"	6'-8"
2nd Floor							
140	Double Hung with Trim	6	2'-8"	5'-2"	2'-0"	78'-0"	20'-0"
141	Double Hung with Trim	4	2'-4"	3'-6"	3'-6"	37'-4"	12'-0"
142	Double Hung with Trim	4	2'-8"	4'-6"	2'-2"	46'-8"	13'-4"
142	Double Hung with Trim	4	2'-8"	4'-6"	2'-6"	46'-8"	13'-4"
3rd Floor							
142	Double Hung with Trim	4	2'-8"	4'-6"	2'-2"	46'-8"	13'-4"
						498'-0"	139'-4 1/8"

Door Schedule

Type Mark	Count	Family	Width	Height	Casing Quantity
G rade					
179	2	Crawl Space Door	2'-0"	1'-6"	20'-0"
1st Floor					
133	2	Cased Opening	5'-0"	6'-8"	73'-4"
134	2	Cased Opening	6'-0"	6'-8"	77'-4"
193	2	Single-Panel 6	3'-0"	6'-8"	65'-4"
195	2	Single-Panel 6	1'-6"	6'-8"	59'-4"
196	4	Single-Panel 6	2'-0"	6'-8"	122'-8"
197	4	Single-Panel 6	2'-8"	6'-8"	128'-0"
207	2	Cased Opening	8'-0"	6'-8"	85'-4"
208	2	Single-Panel 6	2'-4"	6'-8"	62'-8"
2nd Floor					
98	2	Double-Panel 2	5'-0"	6'-8"	73'-4"
99	2	Double-Panel 2	4'-0"	6'-8"	69'-4"
130	2	Cased Opening	2'-0"	6'-8"	61'-4"
192	4	Single-Panel 6	2'-6"	6'-8"	126'-8"
193	2	Single-Panel 6	3'-0"	6'-8"	65'-4"
196	4	Single-Panel 6	2'-0"	6'-8"	122'-8"
197	2	Single-Panel 6	2'-8"	6'-8"	64'-0"
208	4	Single-Panel 6	2'-4"	6'-8"	125'-4"
209	2	Double-Glass 1	6'-0"	6'-8"	77'-4"
210	2	Sliding Pocket Door	2'-4"	6'-8"	62'-8"
3rd Floor					
209	4	Double-Glass 1	6'-0"	6'-8"	154'-8"
					1696'-8"



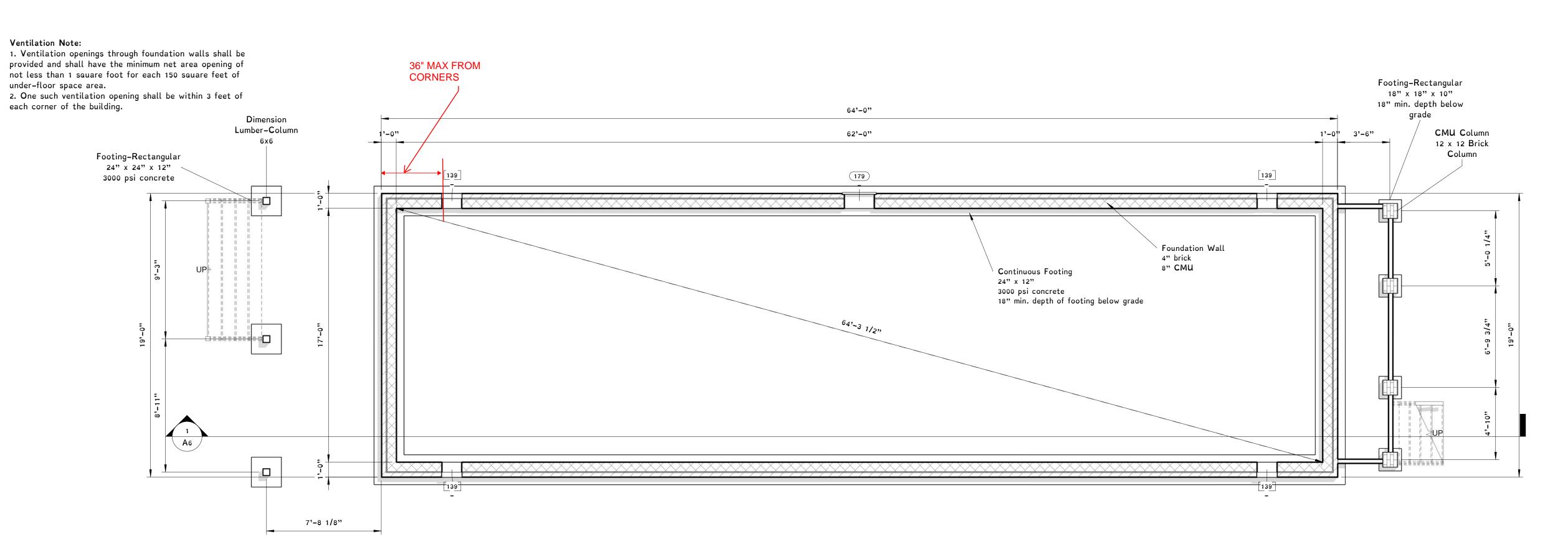


Site Plan (survey plat under separate cover)

1/16" = 1'-0"

First Floor Layout

1/4" = 1'-0"



Poundation Plan
1/4" = 1'-0"

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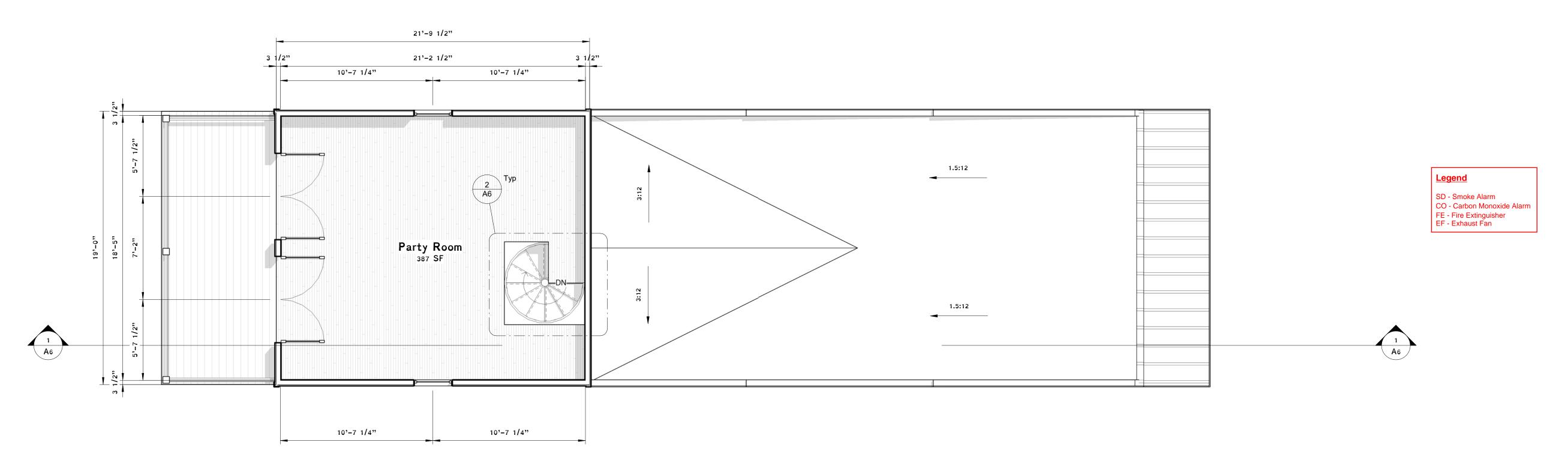
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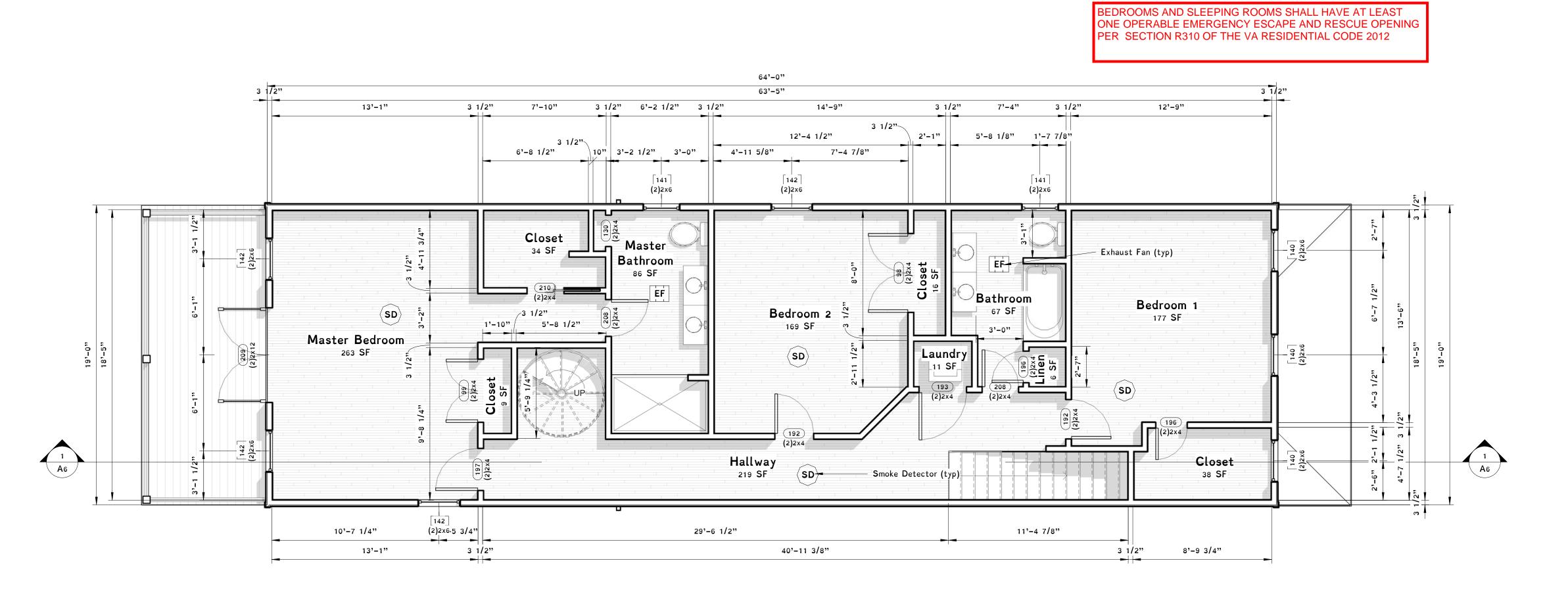
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Print plans at 24" x 36", Arch



Third Floor Layout

1/4" = 1'-0"



Second Floor Layout

1/4" = 1'-0"

Second & Third Floor

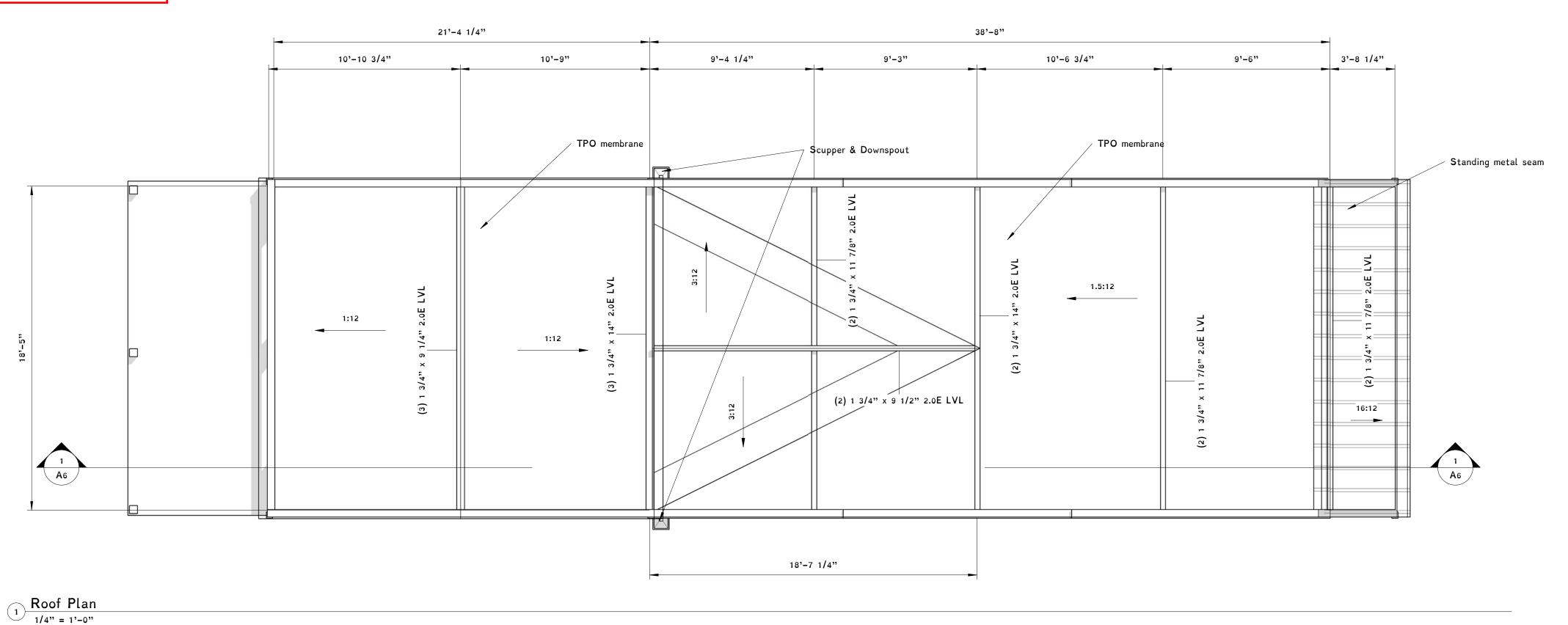
East Broad Street- New House Plans

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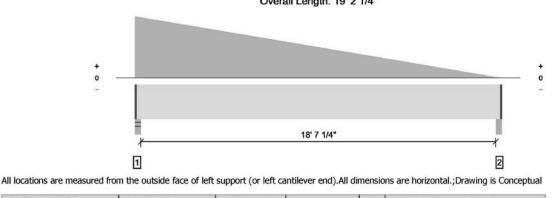
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A Professional Engineering Practice 515 North 22nd Street Richmond, VA 23223 804.647.1589





FORTE MEMBER REPORT Roof, Cricket Roof Ridge 2 piece(s) 1 3/4" x 9 1/2" 2.0E Microllam® LVL Overall Length: 19' 2 1/4"



Design Results Actual @ Location Allowed Result LDF Load: Combination (Pattern)
 Member Reaction (lbs)
 1912 @ 2"
 4449 (2.25")
 Passed (43%)
 - 1.0 D + 1.0 Lr (All Spans)

 Shear (lbs)
 1629 @ 1' 1"
 7897
 Passed (21%)
 1.25
 1.0 D + 1.0 Lr (All Spans)
 6982 @ 8' 2 7/8" 14719 Passed (47%) 1.25 1.0 D + 1.0 Lr (All Spans)
0.556 @ 9' 2 7/8" 0.628 Passed (L/407) -- 1.0 D + 1.0 Lr (All Spans) Moment (Ft-lbs) Live Load Defl. (in) 0.899 @ 9' 3 1/8" 0.943 Passed (L/252) -- 1.0 D + 1.0 Lr (All Spans) Total Load Defl. (in) Deflection criteria: LL (L/360) and TL (L/240).

• Top Edge Bracing (Lu): Top compression edge must be braced at 17' 7" o/c unless detailed otherwise. Bottom Edge Bracing (Lu): Bottom compression edge must be braced at 19' o/c unless detailed otherwise.

		Bearing		Loads to Supports (lbs)				
Supports	Total	Available	Required	Dead	Roof Live	Total	Accessories	
1 - Stud wall - SYP	3.50"	2.25"	1.50"	721	1221	1942	1 1/4" Rim Board	
2 - Column - SYP	3.50"	2.25"	1.50"	403	602	1005	1 1/4" Rim Board	

Tributary Dead Roof Live Location (Side) Width (0.90) (non-snow: 1.25) 0 - Self Weight (PLF) 1 1/4" to 19' 1" N/A 9.7 9' 6" to 0 10.3 1 - Tapered (PSF)

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The product application, input cesign loads, dimensions and support information have been provided by Obsidian, Inc.

Beam Calculations 3613 & 3615 East Broad Street

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SUSTAINABLE FORESTRY INITIATIVE

Beam Calcs.4te

Page 11 of 13

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Member Type : Flush Beam Building Use: Residential

Building Code: IBC 2015

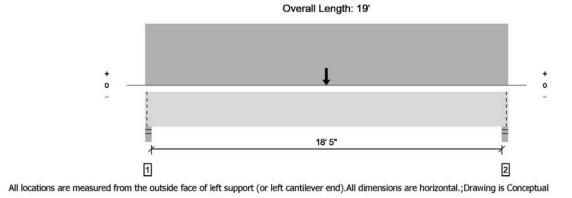
Design Methodology: ASD

SUSTAINABLE FORESTRY INITIATIVE

Member Pitch: 0/12

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FORTE MEMBER REPORT Roof, Beam Below 3rd Floor North Wall 3 piece(s) 1 3/4" x 14" 2.0E Microllam® LVL



 Actual @ Location
 Allowed
 Result
 LDF
 Load: Combination (Pattern)
 System: Roof

 6024 @ 2"
 10382 (3.50")
 Passed (58%)
 - 1.0 D + 1.0 Lr (All Spans)
 Member Type: D
 Member Type : Drop Beam Member Reaction (lbs)
 5248 @ 1' 5 1/2"
 17456
 Passed (30%)
 1.25
 1.0 D + 1.0 Lr (All Spans)

 32228 @ 9' 6"
 45484
 Passed (71%)
 1.25
 1.0 D + 1.0 Lr (All Spans)

 0.495 @ 9' 6"
 0.622
 Passed (L/452)
 - 1.0 D + 1.0 Lr (All Spans)
 Building Use: Residential Building Code: IBC 2015 Design Methodology: ASD Live Load Defl. (in) Member Pitch: 0/12 Total Load Defl. (in) 0.845 @ 9' 6" 0.933 Passed (L/265) -- 1.0 D + 1.0 Lr (All Spans)

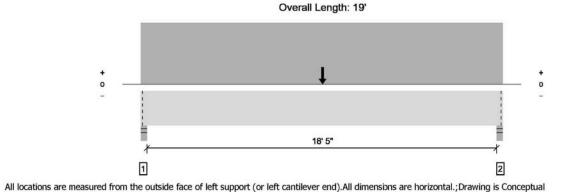
• Deflection criteria: LL (L/360) and TL (L/240). ${}^{\bullet}$ Top Edge Bracing (Lu): Top compression edge must be braced at 8' 10" o/c unless detailed otherwise. • Bottom Edge Bracing (Lu): Bottom compression edge must be braced at 19' o/c unless detailed otherwise.

		Bearing			Loads to S			
Supports	Total	Available	Required	Dead	Floor Live	Roof Live	Total	Accessories
1 - Stud wall - SYP	3.50"	3.50"	2.03"	2520	1007	3504	7031	Blocking
2 - Stud wall - SYP	3.50"	3.50"	2.03"	2520	1007	3504	7031	Blocking
Blocking Panels are assumed to car	ry no loads ap	plied directly at	ove them and th	e full load is	applied to th	e member be	eing designed.	

Tributary Dead Floor Live Roof Live Location (Side) Width (0.90) (1.00) (non-snow: 1.25) Comments 0 to 19' N/A 21.5 0 to 19' (Top) 10' 7 1/4' 5.0 10.0 2 - Uniform (PSF) 0 to 19' (Top) 4' 7 1/2" 10.0 4 - Point (lb) 9' 6" (Front) N/A 721 1221 Roof Ridge, Support

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FORTE MEMBER REPORT Roof, Ridge End & Roof Support 2 piece(s) 1 3/4" x 14" 2.0E Microllam® LVL



 Design Results
 Actual @ Location
 Allowed
 Result
 LDF
 Load: Combination (Pattern)

 Member Reaction (Ibs)
 3492 @ 2"
 6921 (3.50")
 Passed (50%)
 -- 1.0 D + 1.0 Lr (All Spans)
 System : Roof Member Type : Drop Beam 3033 @ 1' 5 1/2" 11638 Passed (26%) 1.25 1.0 D + 1.0 Lr (All Spans) 18394 @ 9' 6" 30323 Passed (61%) 1.25 1.0 D + 1.0 Lr (All Spans) 0.456 @ 9' 6" 0.622 Passed (L/491) -- 1.0 D + 1.0 Lr (All Spans) Building Use: Residential Building Code: IBC 2015 Design Methodology: ASD Live Load Defl. (in) Member Pitch: 0/12 0.727 @ 9' 6" 0.933 Passed (L/308) -- 1.0 D + 1.0 Lr (All Spans) Total Load Defl. (in) Deflection criteria: LL (L/360) and TL (L/240).

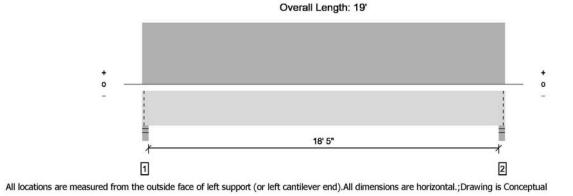
• Top Edge Bracing (Lu): Top compression edge must be braced at 8' 1" o/c unless detailed otherwise. Bottom Edge Bracing (Lu): Bottom compression edge must be braced at 19' o/c unless detailed otherwise.

		Bearing		Loads to Supports (lbs)			
Supports	Total	Available	Required	Dead	Roof Live	Total	Accessories
1 - Stud wall - SYP	3.50"	3.50"	1.77"	1291	2201	3492	Blocking
2 - Stud wall - SYP	3.50"	3.50"	1.77"	1291	2201	3492	Blocking
Blocking Panels are assumed to carry	no loads ap	plied directly at	ove them and th	e full load is	applied to th	e member bei	ng designed.

Location (Side) Tributary Dead Roof Live (0.90) (non-snow: 1.25) Comments 0 to 19' N/A 14.3 0 to 19' (Top) 10' 10.0 20.0 9' 6" (Front) N/A 403 602 2 - Point (lb) Roof Ridge Support

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FORTE MEMBER REPORT Roof, Roof: Drop Beam 2 piece(s) 1 3/4" x 11 7/8" 2.0E Microllam® LVL



 Design Results
 Actual @ Location
 Allowed
 Result
 LDF
 Load: Combination (Pattern)

 Member Reaction (lbs)
 2978 @ 2"
 6921 (3.50")
 Passed (43%)
 - 1.0 D + 1.0 Lr (All Spans)
 System : Roof Member Type : Drop Beam 2577 @ 1' 3 3/8" 9871 Passed (26%) 1.25 1.0 D + 1.0 Lr (All Spans)
13655 @ 9' 6" 22310 Passed (61%) 1.25 1.0 D + 1.0 Lr (All Spans)
0.583 @ 9' 6" 0.622 Passed (L/384) -- 1.0 D + 1.0 Lr (All Spans) Building Use: Residential Building Code: IBC 2015 Design Methodology: ASD Live Load Defl. (in) Member Pitch: 0/12 Total Load Defl. (in) 0.915 @ 9' 6" 0.933 Passed (L/245) -- 1.0 D + 1.0 Lr (All Spans) Deflection criteria: LL (L/360) and TL (L/240). ullet Top Edge Bracing (Lu): Top compression edge must be braced at 10' 1" o/c unless detailed otherwise.

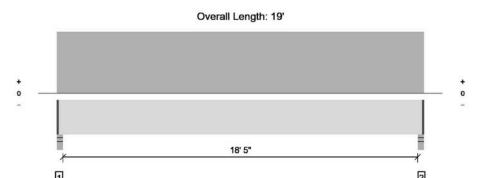
• Bottom Edge Bracing (Lu): Bottom compression edge must be braced at 19' o/c unless detailed otherwise.

		Bearing		Loads	s to Suppor	ts (lbs)	
upports	Total	Available	Required	Dead	Roof Live	Total	Accessories
Stud wall - SYP	3.50"	3.50"	1.51"	1078	1900	2978	Blocking
Stud wall - SYP	3.50"	3.50"	1.51"	1078	1900	2978	Blocking
Blocking Panels are assumed to carry i	no loads ap	plied directly ab	ove them and the	e full load is	applied to th	e member beir	ng designed.

Location (Side) Tributary Dead Roof Live (0.90) (non-snow: 1.25) Comments F) 0 to 19' N/A 12.1 0 to 19' (Top) 10' 10.1

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FORTE MEMBER REPORT Third Floor Roof/Ceiling, Ceiling Beam 3 piece(s) 1 3/4" x 9 1/4" 2.0E Microllam® LVL



All locations are measured from the outside face of left support (or left cantilever end). All dimensions are horizontal.; Drawing is Conceptual Design Results Actual @ Location Allowed Result LDF Load: Combination (Pattern) System : Floor
 Member Reaction (lbs)
 1628 @ 2"
 6674 (2.25")
 Passed (24%)
 - 1.0 D + 1.0 L (All Spans)

 Shear (lbs)
 1462 @ 1' 3/4"
 9227
 Passed (16%)
 1.00 1.0 D + 1.0 L (All Spans)

 Moment (Ft-lbs)
 7545 @ 9' 6"
 16806
 Passed (45%)
 1.00 1.0 D + 1.0 L (All Spans)

 Live Load Defl. (in)
 0.429 @ 9' 6"
 0.467
 Passed (L/522)
 - 1.0 D + 1.0 L (All Spans)

 Total Load Defl. (in)
 0.701 @ 9' 6"
 0.933
 Passed (L/319)
 - 1.0 D + 1.0 L (All Spans)
 Member Type : Flush Beam Building Use: Residential Building Code: IBC 2015 Design Methodology: ASD Deflection criteria: LL (L/480) and TL (L/240).

• Top Edge Bracing (Lu): Top compression edge must be braced at 18' 10" o/c unless detailed otherwise. • Bottom Edge Bracing (Lu): Bottom compression edge must be braced at 18' 10" o/c unless detailed otherwise.

	Bearing			Load	s to Suppor					
Supports	Total	Available	Required	Dead	Floor Live	Total	Accessories			
1 - Stud wall - SYP	3.50"	2.25"	1.50"	637	1007	1644	1 1/4" Rim Board			
2 - Stud wall - SYP	3.50"	2.25"	1.50"	637	1007	1644	1 1/4" Rim Board			
Rim Board is assumed to carry all loads applied directly above it, bypassing the member being designed.										

Location (Side)

Tributary

Dead
(0.90)

Floor Live
(1.00)

Comments 1 1/4" to 18' 10 0 - Self Weight (PLF) N/A 14.2 3/4" 0 to 19' (Top) 10' 7 1/4" 5.0 10.0 Residential Areas

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The product application, input cesign loads, dimensions and support information have been provided by Obsidian, Inc.

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Forte Software Operator keristeinruck@gmail.com

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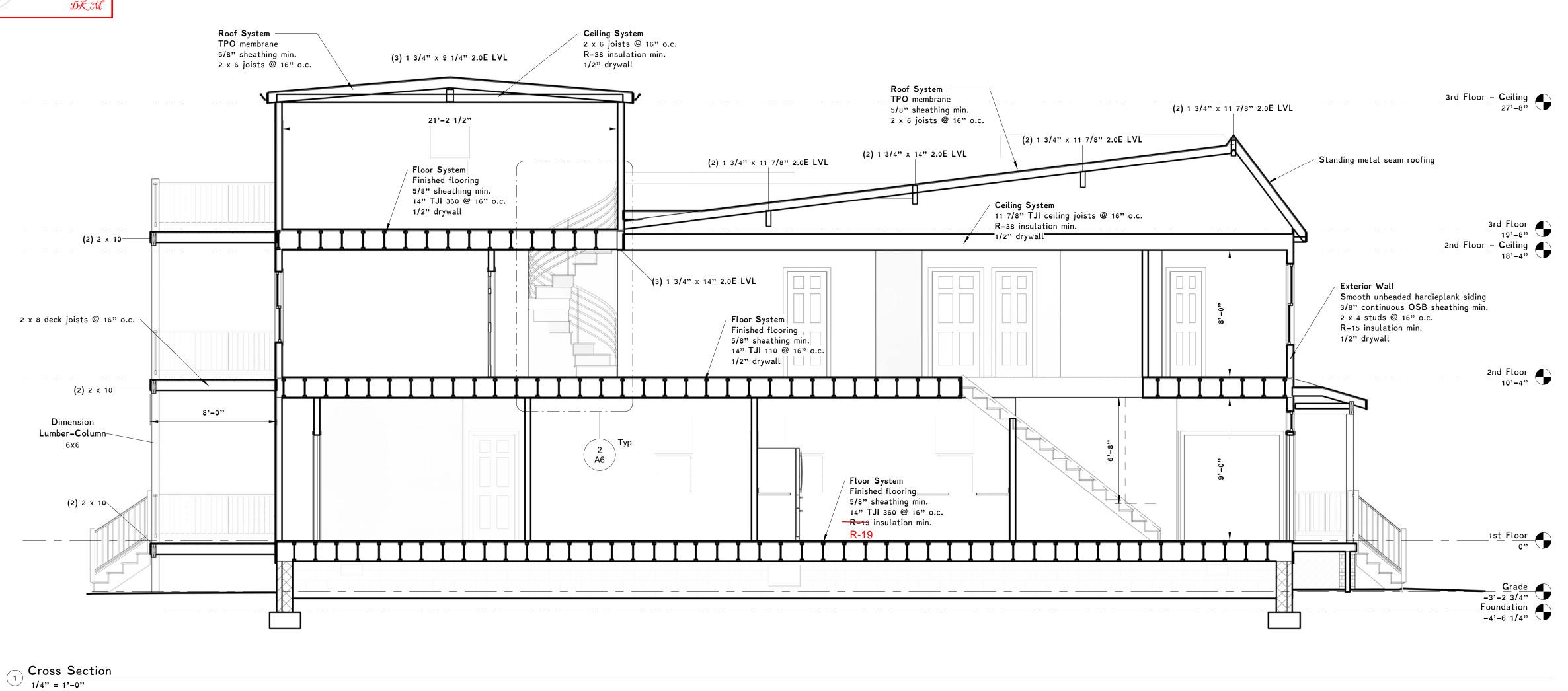
Beam Calculations 3613 & 3615 East Broad Street Richmond, Va 23223 keristeinruck@gmail.com

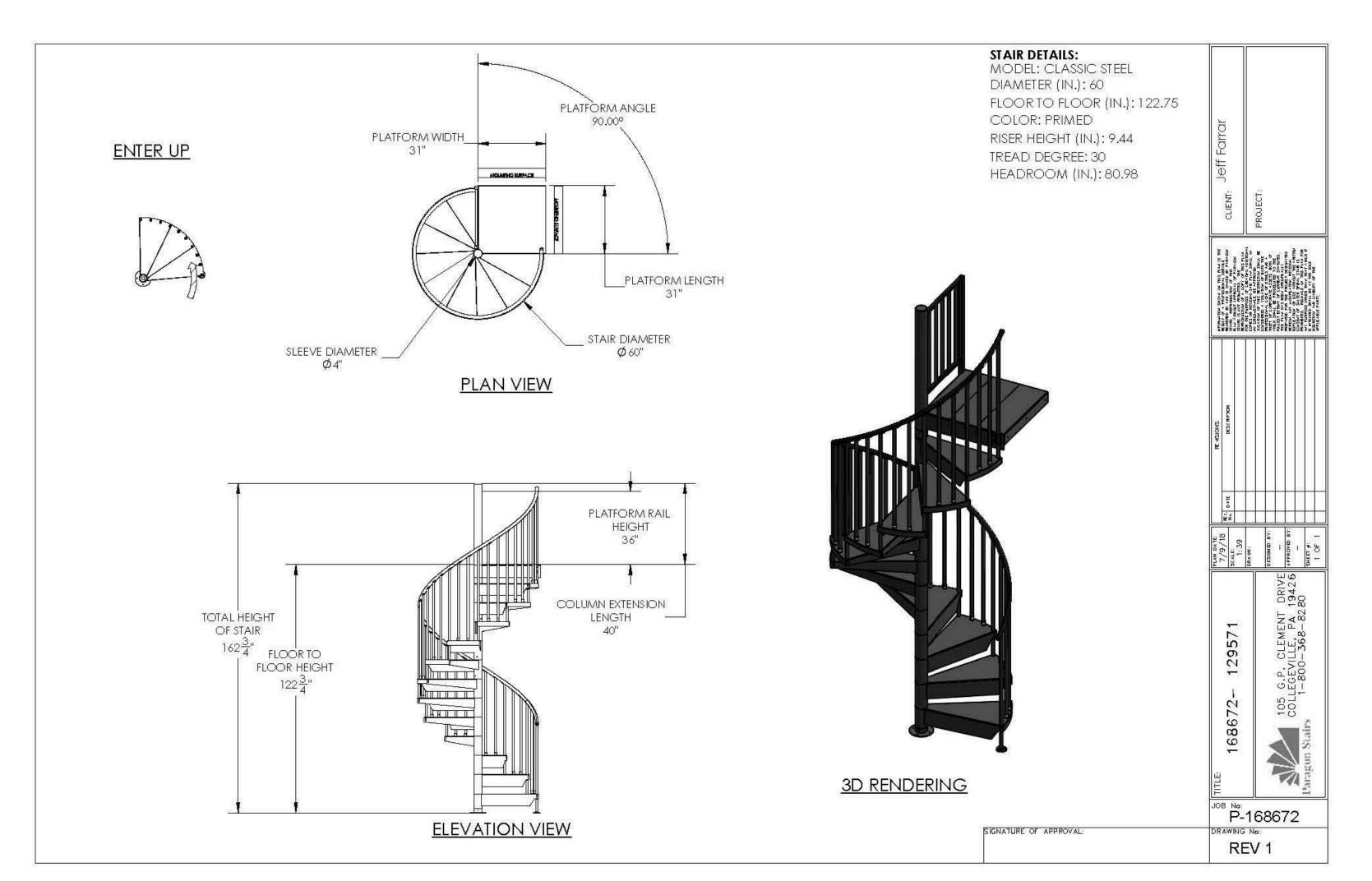
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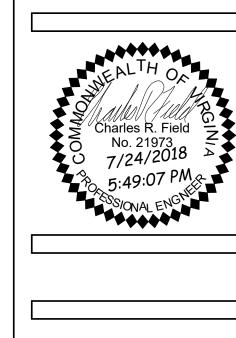
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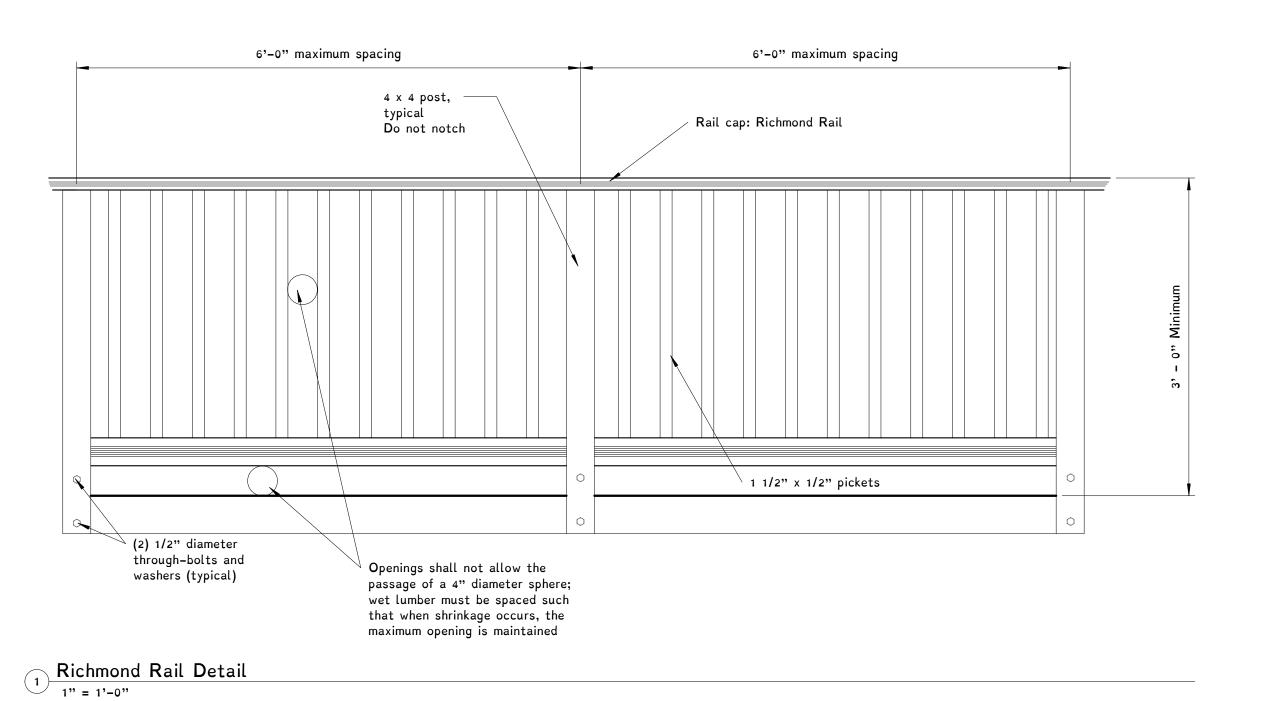
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sulation and Fenestration values:

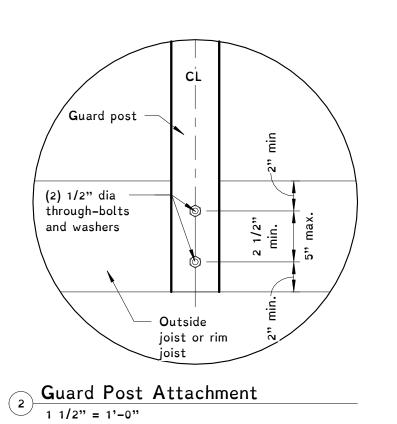
Walls R-15 Crawl R-19 Attic R-38

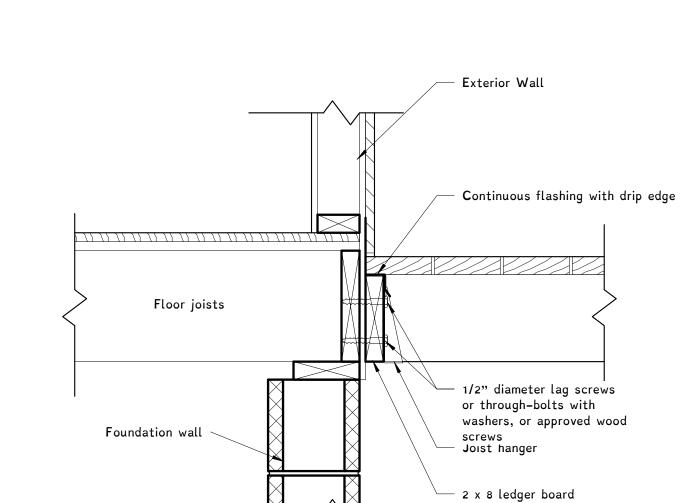
UMAX = 0.35

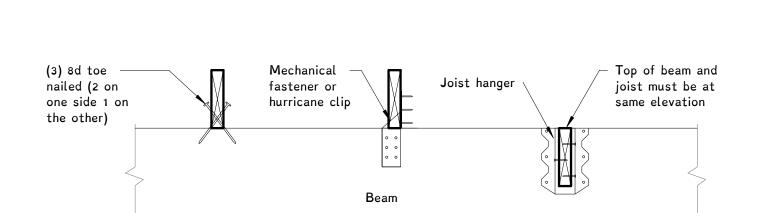
2 Spiral Stair Plans
12" = 1'-0"

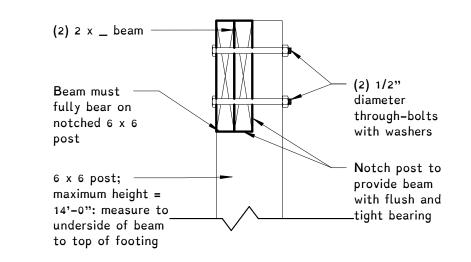


(1) 3/8" diameter -through-bolt with washers (typical)









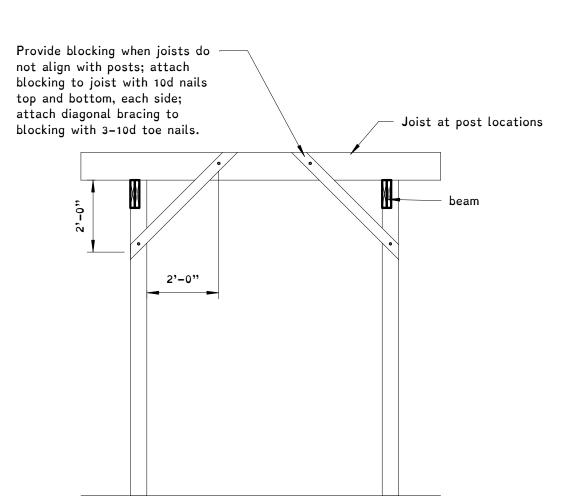
Post to Beam Connection Detail
1 1/2" = 1'-0"

6 Ledger Attachment - deck to rim board
1 1/2" = 1'-0"

Joist to Beam Connection

1" = 1'-0"

Bracing Parallel to



Bracing Perpendicular to

Diagonal Bracing Requirements

3/8" = 1'-0"

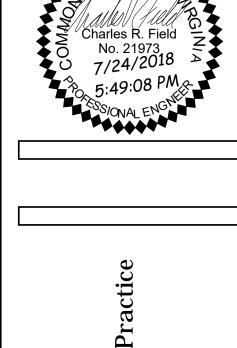
2 x 4 bracing (typical)

7 Stair Detail
1/2" = 1'-0"

2012 IRC, R311.7.1 Width. Stairways shall not be less than 36 inches in clear width at all points above the permitted handrail height and below the required headroom height. 6'-0" max. between posts Handrails shall not project more than 4.5 inches on either side of the stairway and the minimum clear width of the stairway at and below the handrail height, including treads and landings, shall not be less than 31-1/2 inches where a handrail is installed on one side and 27 inches where handrails are provided on both 2 x 4 subrailing Opening shall not permit the passage of a 4" diameter sphere 2 x treads attached at stringer or ledger with (2) 8d threaded nails or (2)#8 screws 2–1/2" long min. - 2 x 4 ledgers, each side, full depth of tread; attach with (4)10d threaded nails or (4)# 8 wood screws 3" long min.

ail road $\mathbf{\Omega}$ st Бa 3615

A7



Sidian

Building Permit - Approved Construction Documents Revised general authority of the Building Code, this approved set of construction document at all times and shall not be altered without approval from the Building not approve any Electrical, Mechanical or Plumbing work. This app 100 thereby certify that an accurate survey of the property was made on November 15, 2017 and that any encroachments are noted hereon. This survey was made without benefit of a title report and there may be encumberances present that are not shown. NORTH Carl E. Duncan, P.E., L.S. **East Broad Street** 255.50' to 36th Street S57'52'49"E S57'52'49"E Rod Fd 25.00' 25.00' 14.82 20.12 **.** <u>છ</u> 200 0.65' 0.24' Ex. Building Ex. Building **Proposed Proposed** House House 3' 3' 3' 3' 83.28 CARL EDWARD DUNCAN License No. 2013 Government Road 5/6/18 Plat Showing the proposed improvements to E000129008 / E000129009 3613 & 3615 East Broad Street SOJO Enterprises Duncan & Associates, 2609 Rocky Oak Road POWHATAN, VIRGINIA 23139 (804) 598-8240 Fax (804) 598-7th District DATE: 5/6/18 City of Richmond DRAWN BY: CED JOB NO.: 17



City of Richmond

Department of Planning & Development Review

Bureau Of Permits & Inspections

PDRPermitsAndInspections@Richmondgov.com

To Request an inspection, call (804) 646-0770

BUILDING (R) PERMIT

ISSUE DATE: 10/4/2018

BLDR-042355-2018

SITE ADDRESS: 3615 E Broad St PARCEL NUMBER: E0001290009

Richmond, VA 23223

PERMIT DESCRIPTION: Construct new single family detached dwelling.

OCCUPANCY LOAD/FLOOR:

TYPE OF IMPROVEMENT: New COST OF WORK: \$195,000.00

USE GROUP: CONSTRUCTION TYPE:

INSPECTOR NAME: David Alley INSPECTOR PHONE: 804-513-6939

INSPECTOR EMAIL ADDRESS: David.Alley@richmondgov.com

PERMIT CONTACT INFORMATION

OWNER NAME: Sojo Enterprises Llc OWNER PHONE: 8043045520

CONTRACTOR NAME: Jeff Farrar CONTRACTOR PHONE: 8043045520

CONTRACTOR LICENSE NUMBER: 2705140219

FEE INFORMATION

Permit Fee \$1,049.32 Plan Review \$123.46 Administrative Handling \$61.73 State Levy \$24.90

TOTAL FEES \$1,259.41

SPECIAL TERMS AND CONDITIONS

BUILDING: NEW DETACHED SFD HOME

BUILDING: NEW DETACHED SFD HOME PER ATTACHED PLANS.*** PROVIDE MANUFACTURER LOAD SPECS OR ENGINEER SEALED DESIGNS FOR ENGINEERED STRUCTURAL MEMBERS AND ENGINEER SEALED TRUSS DRAWINGS FOR ALL TRUSSES TO INSPECTOR IN FIELD. ALSO PROVIDE SEALED SOIL REPORT TO INSPECTOR

Plans are in substantial compliance with 5/22/2018 CAR approval. The fiber cement siding must be smooth and unbeaded; paint colors be submitted to staff for administrative approval; the windows be aluminum clad wood; and the roofline be raised to create a space above the second story façade windows that is proportionately similar to adjacent structures, the design to be administratively approved. Rear railings will not be visible from the public right of way.

ZONING: Single family dwelling – Construct new single-family detached (2,600 SF) dwelling as per submitted plans. Side yard 3' required; 3' proposed. Front yard 14' required; 14' proposed. No off-street parking required (Sec. 30-710.2:2). As-built survey required for zoning final inspection prior to final C.O. issuance.

DPW/RW:

On-Street parking; No driveway permit required.

WISP may be required where sewer connection is in public right-of-way or easement.

WATER RESOURCES: Land disturbing may not exceed 2,500 square feet in ChesBay RMA. Land disturbance outside the limits as shown on the plan will result in a stop work order. Maintain adequate E&S measures during construction.

MECHANICS LIEN AGENT INFORMATION

NAME: None Designated

PHONE:

ADDRESS: Per §108.5 - 2015 VA Construction Code

A. R. Abbasi
Commissioner of Buildings
Approved By:

900 E. Broad Street, Room 110 * Richmond, VA 23219 * 804.646.4169 * FAX 804.646.1569