VININGS



DUNCANS CROSSING LOT 14

PLAN ID: 020123

110 VILLAGE TRAIL SUITE 215 WOODSTOCK, GA. 30188

	DRAWING INDEX
A0.0	COVER SHEET
A1.1	FRONT ELEVATIONS
A2.1	SIDE & REAR ELEVATIONS
A3.1	SLAB FOUNDATIONS
A5.1	FIRST FLOOR PLANS & OPTIONS
A6.1	ROOF PLANS
A7.2	ELECTRICAL PLANS

AREA TABULATIO	N
FIRST FLOOR	1819
TOTAL	1819
GARAGE	411
FRONT PORCH ELEVATION	33
A D G (COVERED)	33
RFAR PATIO	120

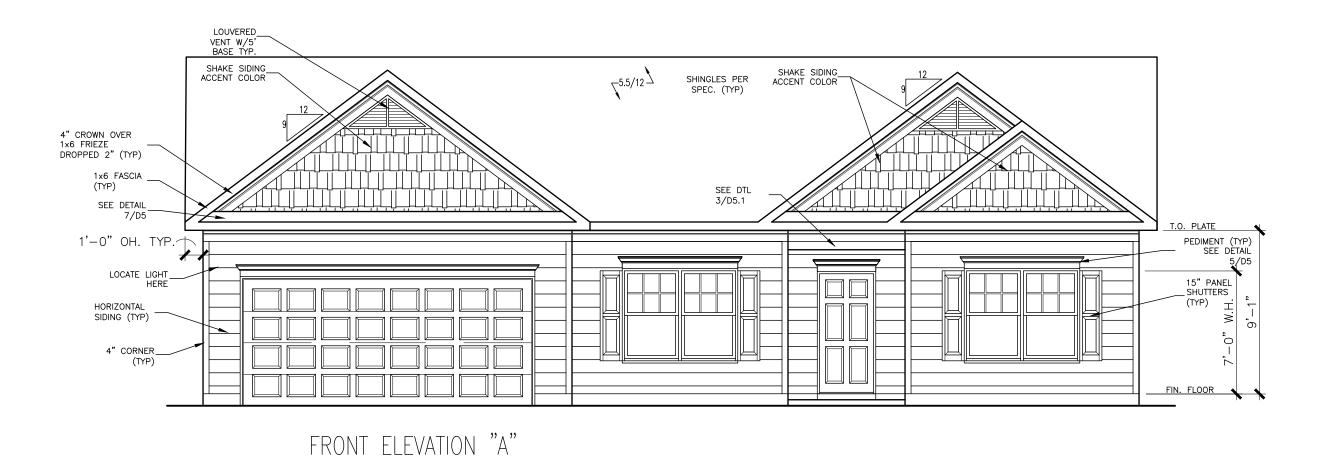
GOVERNMENTAL CODES & STANDARDS

HOME TO BE BUILT TO CONFORM TO ALL APPLICABLE LOCAL CODES, PRACTICES AND STANDARDS

BUILDING CODE ANALYSIS / DESIGN CRITERIA

HOME TO BE BUILT TO MEET OR EXCEED ALL LOCAL CODES AND DESIGN CRITERIA

PLAN REVISIONS				
DATE	BY	REVISION	PAGE #	
1/10/2019	MM	Added optional unfinished basement	A4.1	
1/18/2019	AW	Prototype walk revisions - see revision sheet for changes	A3.1, A5.1, A7.2	
3/27/2019	MM	Added callout for detail 3/D5.1 for A massing	A1.1-A1.9.1	
8/2/2019	AW	PCR # 3105 Removed column at Foyer/Dining	A5.1, A5.1.1, A5.1.2, A7.2, A8.1	
10/11/2019	AW	PCR #3301 Relocated door for optional 2nd flr to the top of the stairs (see revision sht.)	A5.1.1, A5.3, A5.4.1, A7.2, A7.3	
12/18/2019	AW	PCR #3464 Remove outlet on knee wall behind kitchen sink and reduce overhang at end of peninsula to 6" per code	A5.1-A5.1.2, A7.2	
2/19/2020	AW	PCR #3621 Remove hdr. between Dining & Lndry Hall and reduce length of wall next to refrig. 12"	A5.1-A5.1.2, A7.2, A8.1	
2/20/2020	AW	Added new Obath configuration to allow for separate tub and shower and created basement plan only Obath options	A3.1, A3.1.1, A5.1-A5.1.2, A7.2, A8.1	
11/1/2020	MM	PCR #4201 Relocated pendant lights	A7.2	
5/1/2021	MM	Removed unfinished 2nd flr option	A5.3,A7.3	
9/20/2021	AW	Added dim to wall next to refrig. and shifted opening over 4"	A5.1-A5.1.2	
12/1/2021	AW	Noted applicable walls on opt. room over garage to be 2x6 and built into the attic truss	A5.3	
12/5/2022	ВВ	REVISED ROOF PITCHES ON A, B AND C MASSING AND ALL ELEVATIONS OF RANCH PLAN	A1.19, A2.1-A2.3 A6.1-A6.3	



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

ALL NON-MASONRY RETURNS TO BE HORIZONTAL SIDING

SEE SHEET D3 OF SDH TYPICAL DETAILS FOR SOFFIT DETAILS PER SOFFIT MATERIAL

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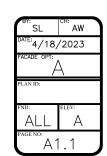


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ELEVATIONS FRONT ELEVATION VININGS

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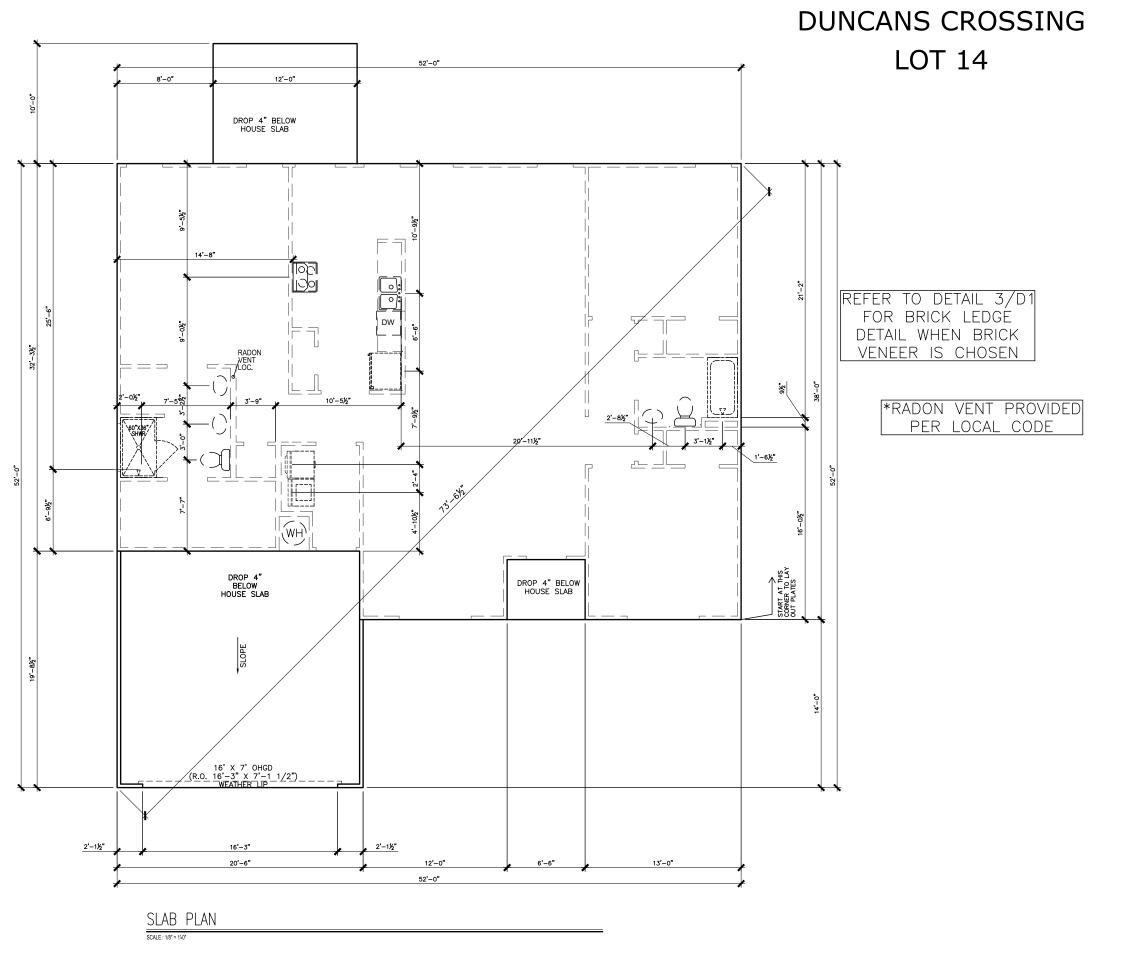
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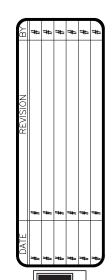


DUNCANS CROSSING LOT 14 SHINGLES PER SPEC (TYP) 1'-0" 0.H. TYP. LEFT ELEVATION "A" SCALE : 1/8" = 1'-0" SHINGLES PER SPEC (TYP) 5.5/12 1X6 FASCIA (TYP) — HORIZONTAL SIDING -(TYP) SHINGLES PER SPEC (TYP) SHINGLES PER SPEC (TYP) 4" CORNER (TYP) REAR ELEVATION "A" – HORIZONTAL SIDING – (TYP) 1X6 FASCIA (TYP) 1'-0" 0.H. TYP. RIGHT ELEVATION "A" SCALE: 1/8" = 1'-0"

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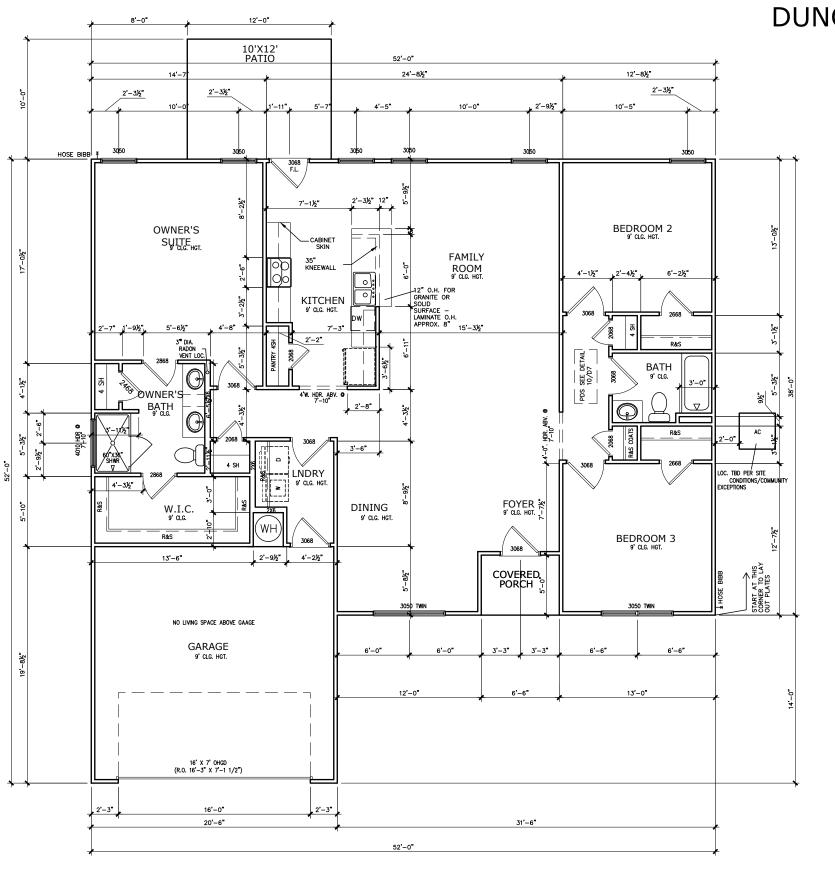
SMITH DOUGLAS HOMES QUALITY | INTEGRITY | VALUE

SLAB PLAN

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_		
ſ	SL	CH: AW
DA	^{TE:} 4/18,	/2023
FA	CADE OPT:	1
PL.	AN ID:	
FN	S	ELEV:



*RADON VENT PROVIDED PER LOCAL CODE

REFER TO MANUFACTURER'S SPECS. FOR DRAIN LOCATIONS ON DETAIL SHEETS D12, D12.1, D12.2 & D12.3

FIRST FLOOR PLAN

I E · 1/0" = 1' 0"

DOUGLAS HOMES.

BY: SL CH: AW

DATE: 4/18/2023
FACADE OPT:
A

PLAN ID:

FND: ELEV:
A

PAGE NO:
A5.1

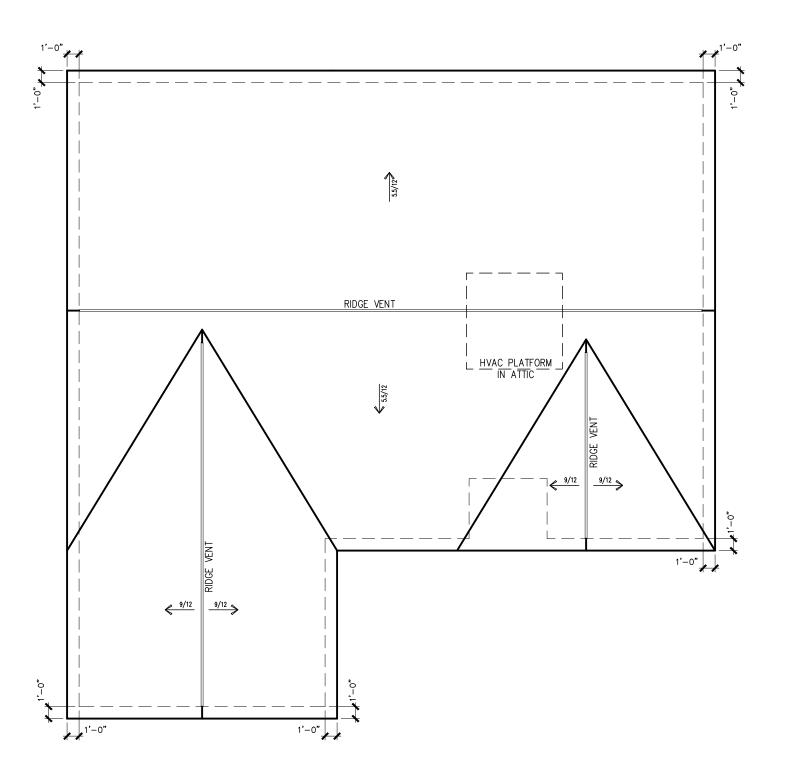
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FLOOR

FIRST

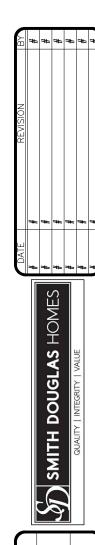
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VININGS



ROOF PLAN "A"

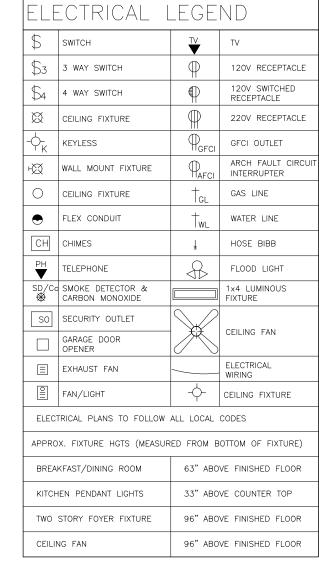
SCALE: 1/8" = 1"-0"



ROOF LAYOUT
VININGS

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BY: SL	CH: AW
DATE: 4/18/	/2023
FACADE OPT:	4
PLAN ID:	
fnd: ALL	elev:



NOTE: FINAL PLACEMENT OF PHONE/CABLE T.B.D. ON SITE BY THE BUILDER

ELE	ECTRICAL L	_EGE	ND
\$	SWITCH	TV	TV
\$3	3 WAY SWITCH	φ	120V RECEPTACLE
\$4	4 WAY SWITCH	P	120V SWITCHED RECEPTACLE
Ø	CEILING FIXTURE	Φ	220V RECEPTACLE
- ∳ _K	KEYLESS	P _{GFCI}	GFCI OUTLET
₩X	WALL MOUNT FIXTURE	PAFCI	ARCH FAULT CIRCUI
0	CEILING FIXTURE	† _{GL}	GAS LINE
•	FLEX CONDUIT	T _{WL}	WATER LINE
СН	CHIMES	¥	HOSE BIBB
PH	TELEPHONE	\$	FLOOD LIGHT
SD/Co ₩	SMOKE DETECTOR & CARBON MONOXIDE		1x4 LUMINOUS FIXTURE
SO	SECURITY OUTLET		2511112 5111
	GARAGE DOOR OPENER		CEILING FAN
≣	EXHAUST FAN		ELECTRICAL WIRING
0	FAN/LIGHT	-\$-	CEILING FIXTURE
ELECT	FRICAL PLANS TO FOLLOW	ALL LOCAL	CODES
APPRO	X. FIXTURE HGTS (MEASUR	ED FROM B	OTTOM OF FIXTURE)
BREA	KFAST/DINING ROOM	63" ABO	VE FINISHED FLOOR
KITCH	EN PENDANT LIGHTS	33" ABO	VE COUNTER TOP
TWO	STORY FOYER FIXTURE	96" ABO	VE FINISHED FLOOR
CEILIN	NG FAN	96" ABO	VE FINISHED FLOOR

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SL CH: AW ^{E:}4/18/2023

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FIRST FLOOR

VININGS

A7.2

FIRST FLOOR ELECTRICAL PLAN

GARAGE

10'X12' PATIO

KITCHEN

--||/LNDRY

DO NOT INSTAI 220V OUTLET UNLESS ELEC. RANGE SELECTED

OWNER'S SUITE

OWNER'S BATH

DO NOT INSTALL DISPOSAL SWITCH AND OUTLET FOR SEPTIC COMMUNITIES

DINING

FAMILY

ROOM

FOYER

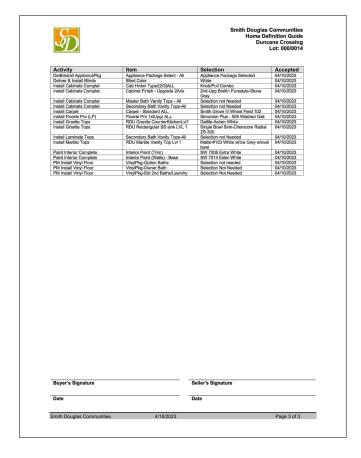
COVERED PORCH

BEDROOM 2

BEDROOM 3

SD.		Home D	s Communities efinition Guide cans Crossing Lot: 000/0014
Community: Duncar Lot: 000/001	ns Crossing 14		
Address: 1234 C Lillingt	lyde Dog Court on, NC 27546		
Plan: Vinings CAD Version: 020123 Bedrooms: 3 Bathrooms: 2 Sq. Footage 1,819	s A Ranch		
O	Outline December		
Option Name Siding Only Sch 06 ExtColPkg(v)	Option Description	Qty 1	
Chrome Interior Finish Color Package	Includes chrome kitchen faucet, bath faucets, & fixtures, brushed nickel doo hardware (hinges, bumps, knobsleved deatbotts), Pkg1 (bn) lighting fixtures, pewter oval mirror (if applies). Separate options also affected: showe door, shower grab bar, cabinet hardware (to be chrome)	s, &	
1A.Uncovered Patio-Regular ilo Stoop	Expand 3x3 rear stoop to 10x12 concrete patio (size may vary, dimensions are per plan drawing). *** selecting a covered patio, do not select this option***	t	
Level 2 - Package Electric (from E1)	NOTÉ: Please See Appliance Sales PDF for Package Details	1	
2.SS Side-by-Side Refr	Stainfoss Steel Standard-Depth Side- by-Side Refrigerator Multi1-Level LED Lightling; PureSource 39 loe & Water Filtration; 2 Fixed Flat Glass Shelves; 2 Store- More™ Adjustable Gallon Door Bins; Automatic Ice Maker; Energy Saver Plus Technology		
36" Cabinet 2nd Upgr w/ Hardware	Includes hardware - knobs, pulls, or knob/pull combo. Note: Bath cabinets match	to 1	
Granite-Kitchen Countertops - Lvl 1 (I)	Kitchen Granite Countertops - Level 1- where Lamanite is Std.	. 1	
Granite-Kitchen Sink Level 1	Level 1 Undermount rectangular stainless steel sink upgrade for kitcher granite.		
Owner Bath Marble 1 Double ilo LamSgl	***Includes Vanity Double Bowl Option Do Not Select Both***		
Prefab Lg Shwr Only Large FD OBATHA	Large prefab shower with framed clea glass door ILO of standard bath. (obatha)	1	
Buyer's Signature		Seller's Signature	
Date		Date	
mith Douglas Communities	4/18/2023		Page 1 of 3

		D	uncans Crossing Lot: 000/0014
Option Name	Option Description	Qty	
FiPkg 6AA-Floorte Pro, StdCpt (f/Pkg1)	Flooring Package 6AA - Floorte Pro, Standard Carpet (from Package 1). SPC (solid polymer core) 0.5 mm vinyl top layer plank	1	
FIPkg W2-AllStdBaths/Laundry Floorte Pro	Top inyer learn. Flooring Package - All Standard Baths and Laundry - Floorie Pro. Does not include powder room or bathrooms which are parts of globally optional space. See Flooring Package Layouts for details. Includes Owners Bath.	1	
Blinds for Base House	Includes blinds for all standard windows on front, sides, and rear that are operational and accessible. Does not include blinds for any optional windows, including windows for optional second floors.	1	
Family/Great Room Ceiling Fixture Lights Kitchen Ceiling Fixture Lights	Family/Great Room Lights - Low Profile Flush Mount LED Lights per plan. Kitchen Lights - Low Profile Flush	1	
ILO Std Light Over Tub or Shower	Mount LED Lights per Plan ILO Standard Light. NOTE: As of 4/1/2020, any Home or Change Order processed will have LED-Light(s) ILO of recessed can light(s). Lighting - Low Profile Flush	1	
Automatic Garage Door	Mount LED) Light. Garage Door Opener - Per Door	1	
Opener	Garage Door Opener - Fer Door	1 '1	
Additional Cable Outlet		1	
		, .	
Buyer's Signature		er's Signature	
	Sell Date 4/18/2023	er's Signature	Page 2 of 3







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DEFINITION

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DESIGN SPECIFICATIONS:

Construction Type: Commerical ☐ Residential ☒

Applicable Building Codes:

- 2018 North Carolina Residential Building Code
- ASCE 7-10: Minimum Design Loads for Buildings and Other Structures

Design Loads:

~1.	R00	f			
		1.1	1	1	_

I.I LIVE	20 F5F
1.2 Dead	
1.3 Snow	15 PSF
1.3.1 Importance Factor	1.0
2. Floor Live Loads	
2.1 Typ. Dwelling	40 PSF
2.2 Šleeping Areas	30 PSF
2.3 Balconies (exterior) and Decks	40 PSF
2.4 Garage Parking	50 PSF
3. Floor Dead Loads	
3.1 Conventional 2x	10 PSF
3.2 -Joist	15 PSF
3.3 Floor Truss	15 PSF
4. Ultimate Wind Speed (3 sec. gust)	130 MPH
4.1 Exposure	В
4.2 Importance Factor	1.0
4.3 Wind Base Shear	

4.3.1 Vx = 4.3.2 Vy = 5. Component and Cladding (in PSF)

MEAN ROOF HT.	UP TO 30'	3Ø'1"-35'	35'1"-40'	40'1"-45'
ZONE 1	16.7,-18.0	17.5,-18.9	18.2,-19.6	18.7,-20.2
ZONE 2	16.7,-21.0	17.5,-22.1	18.2,-22.9	18.7,-23.5
ZONE 3	16.7,-21.0	17.5,-22.1	18.2,-22.9	18.7,-23.5
ZONE 4	18.2,=19.0	19.2,-20.0	19.9,-20.7	20.4,-21.3
ZONE 5	18.2,-24.0	19.2,-25.2	19.9,-26.1	20.4,-26.9

6. Seismic

6.1 Site Class	D
62 Design Category	С
6.3 Importance Factor	10
64 Seismic Use Group	1

6.5 Spectral Response Acceleration

6.5.1 Sms = %g 6.5.2 Sml = %g

6.6 Seismic Base Shear

661 VX =

6.6.2 Vy =

6.7 Basic Structural System (check one)

☑ Bearing Wall☑ Building Frame

☐ Moment Frame

☐ Dual w/ Special Moment Frame

☐ Dual w/ Intermediate R/C or Special Steel

☐ Inverted Pendulum

6.8 Arch/Mech Components Anchored?_____No

.....2*000*psf

20 DGE



STRUCTURAL PLANS PREPARED FOR:

VININGS

PROJECT ADDRESS: TBD

Own

Smith Douglas Homes - Raleigh 2520 Reliance Ave Apex, NC 27539

ARCHITECT/DESIGNER:

Smith Douglas Homes 110 Village Trail, Suite 215 Woodstock, GA 30188

These drawings are to be coordinated with the architectural, mechanical, plumbing, electrical, and civil drawings. This coordination is not the responsibility of the structural engineer of record (SER). Should any discrepancies become apparent, the contractor shall notify SUMMIT Engineering, Laboratory 4 Testing, P.C. before construction begins.

PLAN ABBREVIATIONS:

AB	ANCHOR BOLT	PT	PRESSURE TREATED
AFF	ABOVE FINISHED FLOOR	RS.	ROOF SUPPORT
CJ	CEILING JOIST	SC	STUD COLUMN
CLR	CLEAR	SJ	SINGLE JOIST
DJ	DOUBLE JOIST	SPF	SPRUCE PINE FIR
DSP	DOUBLE STUD POCKET	SST	SIMPSON STRONG-TIE
EE	EACH END	SYP	SOUTHERN YELLOW PINE
ΕW	EACH WAY	TJ	TRIPLE JOIST
NTS	NOT TO SCALE	TSP	TRIPLE STUD POCKET
OC	ON CENTER	TYP	TYPICAL
PSF	POUNDS PER SQUARE FOOT	UNO	UNLESS NOTED OTHERWISE
PSI	POUNDS PER SQUARE INCH	₩₩F	WELDED WIRE FABRIC

Roof truss and floor joist layouts, and their corresponding loading details, were not provided to SUMMIT Engineering, Laboratory & Testing, P.C. (SUMMIT) prior to the initial design. Therefore, truss and joist directions were assumed based on the information provided by SMITH DOUGLAS HOMES. Subsequent plan revisions based on roof truss and floor joist layouts shall be noted in the revision list, indicating the date the layouts were provided. Should any discrepancies become apparent, the contractor shall notify SUMMIT immediately.

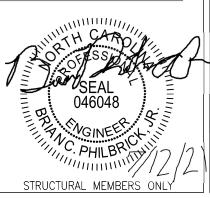
SHEET LIST:

Sheet No.	Description
CS1	Cover Sheet, Specifications, Revisions
C52	Specifications Continued
S1.Øm	Monolithic Slab Foundation
S1.Øs	Stem Wall Foundation
S1.0c	Crawl Space Foundation
S1.0b	Basement Foundation
S2.Ø	Basement Framing Plan
S3.Ø	First Floor Framing Plan
S4.Ø	Second Floor Framing Plan
S5.Ø	Roof Framing Plan
S6.0	Basement Bracing Plan
S7.Ø	First Floor Bracing Plan
58.0	Second Floor Bracing Plan

REVISION LIST:

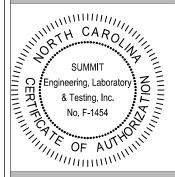
Revision No.	Date	Project No.	Description
1	10.29.18	3832.154R	Added optional bonus room.
2	2.21.19	3832.226	Added optional unfinished basement.
3	3/5/19	3832.226R	Made corrections to header sizes
4	10/17/19	3832.226R2	Moved door to second floor to top of stairs
5	Ø7/Ø7/2Ø 21		Added LIB Option

Duncans Lot 14





3070 Hammond Business Place Suite 171, RALEIGH, NC 27603 OFFICE: 919.380.9991 FAX: 919.380.9993 WWW.SUMMIT-COMPANIES.COM



Coversheet client Smith Douglas Homes - Ralei 2520 Reliance Ave Apex, NC 21539

CURRENT DRAWING

PROJECT Vinings (LH)

DATE: 10/17/2019

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

PROJECT *: 3832.226R2

DRAWN BY: MEB

CHECKED BY: CNB

ORIGINAL DRAWING

DATE PROJECT * 08/07/2018 3832,154

REFER TO COVER SHEET FOR A COMPLETE LIST OF REVISIONS

SHEET

CS1

GENERAL STRUCTURAL NOTES:

- The design professional whose seal appears on these drawings is the structural engineer of record (SER) for this project. The SER bears the responsibility of the primary structural elements and the performance of this structure. No other party may revise, alter, or delete any structural aspects of these construction documents without written permission of SUMMIT Engineering, Laboratory & Testing, P.C. (SUMMIT) or the SER. For the purposes of these construction documents the SER and SUMMIT shall be considered the same entity.
- 2. The structure is only stable in its completed form. The contractor shall provide all required temporary bracing during construction to stabilize the structure.
- 3. The SER is not responsible for construction sequences, methods, or techniques in connection with the construction of this structure. The SER will not be held responsible for the contractor's failure to conform to the contract documents, should any non-conformities occur.
- 4. Any structural elements or details not fully developed on the construction drawings shall be completed under the direction of a licensed professional engineer. These shop drawings shall be submitted to SUMMIT for review before any construction begins. The shop drawings will be reviewed for overall compliance as it relates to the structural design of this project. Verification of the shop drawings for dimensions, or for actual field conditions, is not the responsibility of the SER or SUMMIT
- 5. Verification of assumed field conditions is not the responsibility of the SER. The contractor shall verify the field conditions for accuracy and report any discrepancies to SUMMIT before construction begins.
- 6. The SER is not responsible for any secondary structural elements or non-structural elements, except for the elements specifically noted on the structural drawings.
- This structure and all construction shall conform to all applicable sections of the international residential code.
- 8. This structure and all construction shall conform to all applicable sections of the 2018 North Carolina Residential Code (NCRC) and any local codes or restrictions

FOUNDATIONS:

- Foundations shall be constructed in accordance with chapter 4 of the 2018 NC Residential Building Code (Special consideration shall be given to Chapter 45 in wind zones above 13@mph)
- 2. Footing sizes based on a presumptive soil bearing capacity of 2000 PSF. Contractor is solely responsible for verifying the suitability of the site soil conditions at the time of construction
- Maximum depth of unbalanced fill against masonry walls to be as specified in section R404.1 of the 2018 NCRC
- The structural engineer has not performed a subsurface investigation. Verification of this assumed value is the responsibility of the owner or the contractor. Should anu adverse soil condition be encountered the SER must be contacted before proceeding.

 The bottom of all footings shall extend below the frost line
- for the region in which the structure is to be constructed. However, the bottom of all footings shall be a minimum of 12" below grade.
- 6. Any fill shall be placed under the direction or recommendation of a licensed professional engineer. The resulting soil shall be compacted to a minimum of 95% maximum dry density.
- 7. Excavations of footings shall be lined temporarily with a 6 mil polyethylene membrane if placement of concrete does not occur within 24 hours of excavation.
- 8. No concrete shall be placed against any subgrade containing water, ice, frost, or loose material.
- 9. Each crawl space pier shall bear in the middle third of its respective footing and each girder shall bearing in the middle third of the piers. Pilasters to be bonded to perimeter
- 10. Crawl spaced to be graded level and clear of all debris Provide foundation waterproofing and drain with positive slope to outlet as required by site conditions
- 12. Energy efficiency compliance and insulation of the structure to be in accordance with chapter 11 of the 2018 NCRC

CONCRETE:

- Concrete shall have a normal weight aggregate and a minimum compressive strength (f'c) at 28 days of 3000 psi, unless otherwise noted on the plan.
- Concrete shall be proportioned, mixed, and placed in accordance with the latest editions of ACI 318: "Building Code Requirements for Reinforced Concrete" and ACI 301: "Specifications for Structural Concrete for Buildings".
- Air entrained concrete must be used for all structural elements exposed to freeze/thaw cycles and deicing chemicals. Air entrainment amounts (in percent) shall be within -1% to +2% of target values as follows:
 - Footings: 5%
- 3.2. Exterior Slabs: 5%
- No admixtures shall be added to any structural concrete without written permission of the SER
- Concrete slabs-on-grade shall be constructed in accordance with ACI 302.IR-96: "Guide for Concrete Slab and Slab Construction".
- The concrete slab-on-grade has been designed using a subgrade modulus of k=250 pci and a design loading of 200 psf. The SER is not responsible for differential settlement, slab cracking or other future defects resulting from unreported conditions not in accordance with the above assumptions
- Control or saw cut joints shall be spaced in interior slabs-on-grade at a maximum of 15'-0" O.C. and in exterior slabs-on-grade at a maximum of 10'-0" unless otherwise noted.
- Control or saw cut joints shall be produced using conventional process within 4 to 12 hours after the slab has been finished
- Reinforcing steel may not extend through a control joint. Reinforcing steel may extend through a saw cut joint.
- 10. All welded wire fabric (W.W.F.) for concrete slabs-on-grade shall be placed at mid-depth of slab. The W.W.F. shall be securely supported during the concrete pour. Fibermesh may he used in lieu of IIIIIIE

CONCRETE REINFORCEMENT:

- Fibrous concrete reinforcement or fibermesh specified in concrete slabs-on-grade may be used for control of cracking due to shrinkage and thermal expansion/contraction, lowered water migration, an increase in impact capacity, increased abrasion resistance, and residual strength.
- Fibermesh reinforcing to be 100% virgin polypropylene fibers containing no reprocessed olefin materials and specifically manufactured for use as concrete secondary reinforcement.
- Application of fibermesh per cubic yard of concrete shall equal a minimum of 0.1% by volume (1.5 pounds per cubic yard)
- Fibermesh shall comply with ASTM CIII6, any local building code requirements, and shall meet or exceed the current industry standard.
- Steel Reinforcing bars shall be new billet steel conforming to ASTM A615, grade 60.
- 6. Detailing, fabrication, and placement of reinforcing steel shall be in accordance with the latest edition of ACI 315: "Manual of Standard Practice for Detailing Concrete Structures"
- Horizontal footing and wall reinforcement shall be continuous and shall have 90° bends, or corner bars with the same size/spacing as the horizontal reinforcement with a class B tension splice.
- 8. Lab reinforcement as required, a minimum of 40 bar diameters for tension or compression unless otherwise noted. Splices in masonry shall be a minimum of 48 bar diameters.
- 9. Where reinforcing dowels are required, they shall be equivalent in size and spacing to the vertical reinforcement. The dowel shall extend 48 bar diameters vertically and 20 bar diameters into the footing.
- 10. Where reinforcing steel is required vertically, dowels shall be provided unless otherwise noted.

WOOD FRAMING:

- Solid sawn wood framing members shall conform to the specifications listed in the latest edition of the "National Design Specification for Wood Construction" (NDS). Unless otherwise noted, all wood framing members are designed to be Spruce-Pine-Fir (SPF) #2.
- LVL or PSL engineered wood shall have the following minimum design values:
- led 000,000 = 3
- 2.2. Fb = 2600 psi
- Fv = 285 psi
- 2.4. Fc = 700 psi
- Wood in contact with concrete, masonry, or earth shall be pressure treated in accordance with AWPA standard C-15. Al , other moisture exposed wood shall be treated in accordance with AWPA standard C-2
- Nails shall be common wire nails unless otherwise noted.
- Lag screws shall conform to ANSI/ASME standard BI8.2.1-1981. Lead holes for lag screws shall be in accordance with NDS
- All beams shall have full bearing on supporting framing members unless otherwise noted
- Exterior and load bearing stud walls are to be 2x4 SPF#2 @16" O.C. unless otherwise noted. Studs shall be continuous from the sole plate to the double top plate. Studs shall only be discontinuous at headers for window/door openings. A minimum of one king stud shall be placed at each end of the header. Kina studs shall be continuous.
- Individual studs forming a column shall be attached with one 10d nail @6" O.C. staggered. The stud column shall be continuous to the foundation or beam. The column shall be fully blocked at all floor levels to ensure proper load transfer.
- Multi-ply beams shall have each ply attached wth (3) 10d nails a 24" OC
- 10. Flitch beams and four and five ply beams shall be bolted together with (2) rows of 1/2" dia. through bolts staggered @24" O.C. w/ 2" edge distance and (2) bolts located at 6" from each end, unless noted otherwise.

- The wood truss manufacturer/fabricator is responsible for the design of the wood trusses. Submit sealed shop drawings and supporting calculations to the SER for review prior to fabrication. The SER shall have a minimum of five (5) days for review. The review by the SER shall review for overall compliance with the design documents. The SER shall assume no responsibility for the correctness for the structural design for the wood trusses.
- The wood trusses shall be designed for all required loadings as specified in the local building code, the ASCE Standard "Minimum Design Loads for Buildings and Other Structures." (ASCE 7-10), and the loading requirements shown on these specifications. The truss drawings shall be coordinated with all other construction documents and provisions provided for loads shown on these drawings including but not limited to HVAC equipment, piping, and architectural fixtures attached to the trusses.
- The trusses shall be designed, fabricated, and erected in accordance with the latest edition of the "National Design Specification for Wood Construction." (NDS) and "Design" Specification for Metal Plate Connected Wood Trusses.
- The truss manufacturer shall provide adequate bracing information in accordance with "Commentary and Recommendations for Handling, Installing, and Bracing Metal Plate Connected Wood Trusses" (HIB-91). This bracing, both temporary and permanent, shall be shown on the shop drawings. Also, the shop drawings shall show the required attachments for the trusses.
- Any chords or truss webs shown on these drawings have been shown as a reference only. The final design of the trusses shall be per the manufacturer.

WOOD STRUCTURAL PANELS:

- Fabrication and placement of structural wood sheathing shall be in accordance with the APA Design/Construction Guide "Residential and Commercial," and all other applicable APA standards
- All structurally required wood sheathing shall bear the mark of the APA.
- Wood wall sheathing shall comply with the requirements of local building codes for the appropriate state as indicated on these drawings. Refer to wall bracing notes in plan set for more information. Sheathing shall be applied with the long direction perpendicular to framing, unless noted otherwise.
- Roof sheathing shall be APA rated sheathing exposure 1 or 2. Roof sheathing shall be continuous over two supports and attached to its supporting roof framing with (1)-8d CC nail at 6"o/c at panel edges and at 12"o/c in panel field unless otherwise noted on the plans. Sheathing shall be applied with the long direction perpendicular to framing. Sheathing shall have a span rating consistent with the framing spacing. Use suitable edge support by use of plywood clips or lumber blocking unless otherwise noted. Panel end joints shall occur over framing. Apply building paper over the sheathing as required by the state Building Code.
- Wood floor sheathing shall be APA rated sheathing exposure 1 or 2. Attach sheathing to its supporting framing with (1)-8d CC ringshank nail at 6"o/c at panel edges and at 12"o/c in panel field unless otherwise noted on the plans. Sheathing shall be applied perpendicular to framing. Sheathing shall have a span rating consistent with the framing spacing. Use suitable edge support by use of T&G plywood or lumber blocking unless otherwise noted. Panel end joints shall occur over framing. Apply building paper over the sheathing as required bu the state Building Code.
- Sheathing shall have a 1/8" gap at panel ends and edges as recommended in accordance with the APA.

STRUCTURAL FIBERBOARD PANELS:

- Fabrication and placement of structural fiberboard sheathing shall be in accordance with the applicable AFA standards.
- Fiberboard wall sheathing shall comply with the requirements of local building codes for the appropriate state as indicated on these drawings. Refer to wall bracing notes in plan set for more information.
- Sheathing shall have a 1/8" gap at panel ends and edges are recommended in accordance with the AFA.

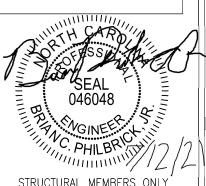
EXTERIOR WOOD FRAMED DECKS:

Duncans Lot 14

Decks are to be framed in accordance with local building codes and as referenced on the structural plans, either through code references or construction details.

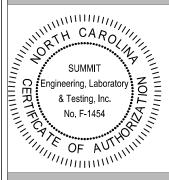
STRUCTURAL STEEL:

- Structural steel shall be fabricated and erected in accordance with the American Institute of Steel Construction "Code of Standard Practice for Steel Buildings and Bridges" and of the manual of Steel Construction "Load Resistance" Factor Design" latest editions.
- All steel shall have a minimum yield stress (Fy) of 36 ksi unless otherwise noted
- Welding shall conform to the latest edition of the American Welding Society's Structural Welding Code AWS Dl.l. Electrodes for shopt and field welding shall be class ETØXX. All welding shall be performed by a certified welder per the above standards.





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<u>6</u> <u>8</u> Douglas Homes . Reliance Ave v, NC 21539 Coversheet CLIENT Smith 1 2520

CURRENT DRAWING

/inings (LH)

DATE: 10/17/2019

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

PROJECT *: 3832226R2

DRAWN BY: MEB

CHECKED BY: CNB

ORIGINAL DRAILING

DATE PROJECT * 08/07/2018 3832.154

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FOUNDATION NOTES:

- FOUNDATIONS TO BE CONSTRUCTED IN ACCORDANCE WITH CHAPTER 4 OF THE 2018 NORTH CAROLINA RESIDENTIAL BUILDING CODE WITH ALL LOCAL
- APENDRENS
 APENDR
- BELOW ADJACENT FINISHED GRADE, OR AS OTHERWISE DIRECTED BY THE CODE BEPORCEPTION OF CIPICIAL.

 4. FOOTING SYZES BASED ON A PRESIMPTIVE SOIL BEARING CAPACITY OF 2000 PSF. CONTRACTOR IS SOLELY RESPONSIBLE FOR VERRITING THE SUITABILITY OF THE SITE SOIL CANDITIONS AT THE TIME OF CONSTRUCTION.

 5. FOOTINGS AND PIERS SHALL BE CENTERED UNDER THEIR RESPECTIVE ELEMENTS, PROVIDE 2" WINNINGT FORDITION FROOTING FROM THE FACE OF MASCARY.

 6. MAXIMUM DEPTH OF UNBALANCED FILL AGAINST MASCARY WALLS TO BE AS SPECIFIED IN SECTION RADAL OF THE 2018 NORTH CAROLINA RESIDENTIAL BILLIONS CODE

- SPECIFIED IN SECTION RAG41 OF THE 2019 NORTH CAROLINA RESIDENTIAL BUILDING CODE.

 1. PILASTERS TO BE BONDED TO PERIMETER FOUNDATION WALL. PROVIDE FOUNDATION WATERPROCEING, AND DRAIN WITH POSITIVE SLOPE TO OUTLET AS REQUIRED BY SITE CONDITIONS.

 9. PROVIDED PERIMETER INSULATION FOR ALL FOUNDATIONS PER 2018 NORTH CAROLINA RESIDENTIAL BUILDING CODE.

 10. CORBEL FOUNDATION WALL AS REQUIRED TO ACCOMMODATE BRICK YENERS.

- VENETES.

 VENETES.

 1. CRAIL 9FACE TO BE GRADED LEVEL AND CLEARED OF ALL DERRIS.

 12. FOUNDATION ANCHORAGE SHALL BE CONSTRUCTED PER THE 20% NORTH CAROLINA RESIDENTIAL CODE SECTION Register INTERM 19° DIA BOLTS 9FACED AT 6-0° ON CENTER WITH A 1" MINIMAN EMBEDMENT INTO MASOARY OR CONCRETE. ANCHOR BOLTS 9HALL BE 10" PROOT THE BOLD OF EACH PLATE SECTION NINIMAN (2) ANCHOR BOLTS 15 HALL BE 10" PROOT THE BOLD OF EACH PLATE SHALL BE LOCATED IN THE CENTER THIRD OF THE PLATE.

 13. ABBREVIATIONS.
- DJ = DOUBLE JOIST GT = GIRDER TRUSS 9C = 9TUD COLUMN EE = EACH END SJ = SINGLE JOIST FT = FLOOR TRUSS DR = DOUBLE RAFTER TR = TRIPLE RAFTER TJ = TRIPLE JOIST CL = CENTER LINE OC = ON CENTER PL = POINT LOAD

- 4. ALL PIERS TO BE 16"x16" MASONRY AND ALL PILASTERS TO BE 8"x6" MASONRY, TYPICAL. (INKO)

 5. WALL FOOTINGS TO BE CONTINUOUS CONCRETE, SIZES PER STRUCTURAL PLAN.

 6. A FOUNDATION EXCANATION OSSERVATION SHOULD BE CONDUCTED BY A PROFESSIONAL GEOTECHNICAL ENGINEER, OR HIS GUALIFIED

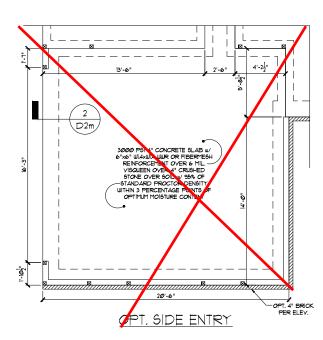
 REPRESENTATIVE. FIREOLATED AREA OF YTELDING MATERIALIS AND/OR POTENTIALLY EXPANSIVE SOLIS ARE OBSERVED IN THE FOOTING EXCANATIONS AT THE TITLE OF CONSTRUCTION SHOTHED TEMPLETING, LABORATORY A TESTING, P.C. MUST BE PROVIDED THE OPPORTINITY TO REVIEW THE FOOTING DESIGN PRIOR TO CONCRETE PLACEMENT.

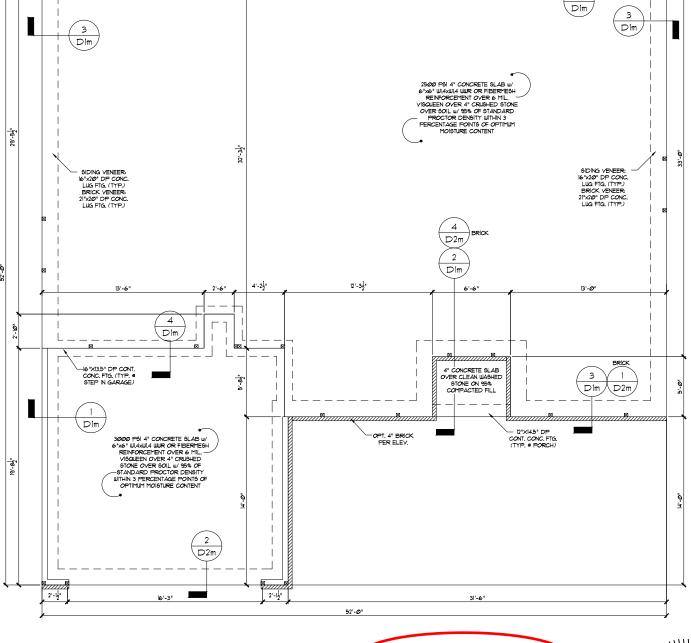
 11. ALL FOOTINGS 6 SLABS ARE TO BEAR ON UNDISTURBED SOLI OR 95% COMPACTED FILL, VERTIFIED BY ENGINEER OR CODE OFFICIAL.

NOTE: ALL EXTERIOR FOUNDATION DIMENSIONS ARE TO FRAMING AND NOT BRICK VENEER, UNO

THESE PLANS ARE DESIGNED IN ACCORDANCE WITH ARCHITECTURAL PLANS PROVIDED BY SMITH DOUGLAS HOMES COMPLETED REVISED ON BOTLODS. IT IS THE RESPONSIBILITY OF THE CLIENT TO NOTIFY SUMMIT SHANEERING, LABORATORY & TESTING, P.C., F. ANY CHANGES ARE HADE TO THE RECHITECTURAL PLANS PRIOR TO CONSTRUCTION SUMMIT ENGINEERING, LABORATORY & TESTING, P.C. CANNOT GUARANTEE THE ADEQUACY OF THESE STRUCTURAL PLANS HERD USED WITH ACKITECTURAL PLANS HERD MECHITECTURAL PLANS HERD DATE LISTED ABOVE.

NOTE: A 4" CRUSHED STONE BASE COURSE IS NOT REQUIRED WHEN SLAB IS INSTALLED ON WELL-DRAINED OR SAND-GRAVEL MIXTURE SOILS CLASSIFIED AS GROUP I PER TABLE R405.1





32'-016"

OPT. 4" CONC PATIO SLAB

11'-115"

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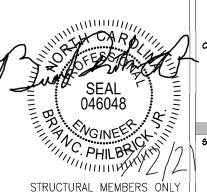
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STRUCTURAL ANALYSIS BASED ON 2018 NCRC.

MONOLITHIC SLAB FOUNDATION

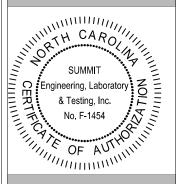
Duncans Lot 14

ELEVATIONS A,D,G





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0<u>7</u> Douglas Homes . Reliance Ave x, NC 21539 Fnd lab S $\widehat{\mathbb{L}}$ Monolithic Vinings Дрех, Smith 1 2520

CURRENT DRAWING

DATE: 10/17/2019

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

PROJECT *: 3832226R2

DRAWN BY: MEB

CHECKED BY: CNB

ORIGINAL DRAWING

DATE PROJECT * 08/07/2018 3832.154

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GENERAL STRUCTURAL NOTES:

- GENERAL STRUCTURAL NOTES

 1. CONSTRUCTURAL NOTES

 2. CONTRACTOR SHALL CAL AMENOMENTS.

 2. CONTRACTOR SHALL LOCAL AMENOMENTS.

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- 9. CONTRACTOR TO PROVIDED LOXICATS WHEN CELLING JOISTS SPAN PERFENDICILAR TO RAFTERS.

 10. FLITCH BEAYS, 4-FLY I.V.I.S. AND 3-FLY SIDE LOADED L.V.I.S. SHALL BE BOLTED TOSETHER WITH I/I.P. IAV. THRU BOLTES PACED AT 12' C. (MAV.) STAGGERED OR EQUIVALENT CONNECTIONS FER DETAIL. (D3Y. MN. EDGE DISTANCE SHALL BE 2' AND (2) BOLT. IS SHALL BE L.CATED MINITH IN FROM EACH BND OF THE BEAM.

 11. ALL NON-LOAD BEARNA LEADERS SHALL BE (1) FLAT 2'A SFE 7, DROFFED. FOR ONL LOAD BEARNA LEADERS SHEEDING 3'-O' N. INDIA 4ND/OR WITH MORE THAN 2'-O' OF CRIPTLE WALL ABOVE, SHALL BE (2) FLAT 2'A SFF 7, DROFFED. (VALESS NOTED OTHERWISE)

 12. ARDREVIATIONS.

- DJ = DOUBLE JOIST GT = GIRDER TRUSS SC = STUD COLUMN EE = EACH END TJ = TRIPLE JOIST CL = CENTER LINE SJ = SINGLE JOIST FT = FLOOR TRUSS DR = DOUBLE RAFTER TR = TRIPLE RAFTER OC = ON CENTER PL = POINT LOAD

NOTE: NOTE:

DESIGNATES JOIST SUPPORTED LOAD
BEARING WALL ABOVE, PROVIDE BLOCKING UNDER
JOIST SUPPORTED LOAD BEARING WALL.

NOTE: SHADED WALLS INDICATE LOAD BEARING WALLS

JOIST 4 BEAM SIZES SHOWN ARE MINIMUMS, BUILDER MAY INCREASE DEPTH FOR EASE OF CONSTRUCTION.

NOTE: REDUCE JOIST SPACING UNDER TILE FLOORS, GRANITE COUNTERTOPS AND/OR ISLANDS.

THESE PLANS ARE DESIGNED IN ACCORDANCE WITH ARCHITECTURAL HESE PLANS AND LESIGNED IN ACCOMMENDE WITH ARCHITECTURAL PLANS PROVIDED BY SHITL POXIL AS HOTEL COMPLETED PROPERTIED ON <u>2017/2019</u>. IT IS THE RESPONSIBILITY OF THE CLIENT TO NOTIFY UNTIL THE PROPERTIES LAD RECHITECTURAL PLANS PRICE TO CONSTRUCTION SHITLE PROPERTIES LAD RECHITECTURAL PLANS PRICE TO CONSTRUCTION SHITLE THE ADEQUACY OF THESE STRUCTURAL PLANS WEN USED WITH ACCHITECTURAL PLANS OF THE DATE LISTED ABOVE.

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STRUCTURAL ANALYSIS BASED ON 2018 NCRC.

FIRST FLOOR FRAMING PLAN SCALE: 1/8"=1"

KING STUD REQUIREMENTS OPENING WIDTH 16" O.C. 24" O.C. LESS THAN (1) (1) KING STUD REQUIREMENTS ABOVE DO NOT APPLY TO PORTAL FRAMED OPENINGS

		DE OO . IEE			
HEADER TAG	BEAM TAG	SIZE	JACKS (EACH END)		
-	BI	(1) 14" FLOOR JOIST	(2)		
-	B2	(2) 14" FLOOR JOIST	(2)		
Α	B3	(2) 2x6	(D)		
В	B4	(2) 2x8	(2)		
С	B5	(2) 2xlØ	(2)		
D	B6	(2) 2xl2	(2)		
E	BT	(2) 9-1/4" LVL	(3)		
F	B8	(2) II-7/8" LVL	(3)		
G	B9	(2) 14" LVL	(3)		
H	BØ	(2) 16" LVL	(3)		
	BII	(2) 18" LVL	(3)		
J	B12	(2) 24" LVL	(4)		
K	B13	(3) 9-1/4" LVL	(3)		
L	B14	(3) 11-7/8" LVL	(3)		
3	B16	(3) I4" LVL	(3)		
N	BIT	(3) 16" LVL	(3)		
0	BIS	(3) 18" LVL	(3)		
P	BIS	(3) 24" LVL	(4)		
HEADER/BEAM SIZES SHOWN ON PLANS ARE MINIMUMS, GREATER					

HEADER/BEAM SCHEDULE

HEADER/BEAM SIZES SHOWN ON PLANS ARE MINIMUNS, GREATER HEADER/BEAM SIZES MAY BE USED FOR EASE OF CONSTRUCTION. ALL HEADERS TO BE DROPPED WILESS NOTED OTHERWISE. ALL BEAMS TO BE FLUSH WILESS NOTED OTHERWISE.

LINTEL SCHEDULE					
TAG	SIZE	OPENING SIZE			
0	L3×3×1/4"	LESS THAN 6'-0"			
2	L5x3x1/4"	6'-0" TO 10'-0"			
3	L5x3-1/2"x5/16"	GREATER THAN 10'-0"			
4	L5x3-1/2"x5/16" ROLLED OR EQUIV.	ALL ARCHED OPENINGS			
SECURE LINTEL TO HEADER w/ (2) 1/2" DIAMETER LAG SCREWS STAGGERED ● 16" OC. (TYP FOR ③)					

ALL HEADERS WITH BRICK ABOVE: (1)(UNO)

WALL STUD SCHEDULE 1ST & 2ND FLOOR LOAD BEARING WALLS: 2x6 STUDS @ 24" O.C. OR 2x4 STUDS @ 16" O.C. 2X6 STUDS * 14" O.C. OR 2X4 STUDS * 16" O.C. 1ST FLOOR LOAD BEARING WALLS SUPPORTING: 2ND FLOOR * WALK-UP ATTIC: 2X6 STUDS * 16" O.C. OR 2X4 STUDS * 12" O.C. 246 51UD5 6 (8° O.C. OR 744 51UD5 0 (2° O.C. BASETINE I OAD BEARING HULLS: 246 51UD5 6 (8° O.C. OR 744 51UD5 6 (8° O.C. OR 744 51UD5 6 (8° O.C. OR 744 51UD5 6 (8° O.C. TUD 51 OCK HULLS: (ALL FLOORS): 244 51UD5 6 (8° O.C. VERTICALLY CAS 51UD5 6 (8° O.C. VERTICALLY CAS 45 UD5 6 (8° O.C. VERTICALY CAS 45 UD5 6 (8° O.

Α (2)S.C. ONLY ISS SPAN BY OTHERS А А WILL CA DAVI OPT. SIDE ENTRY

Duncans

Lot 14

BRANCH PROPERTY OF THE PROPERT 046048

STRUCTURAL MEMBERS ONLY

CURRENT DRAWING

DATE: 10/17/2019 SCALE: 1/8"=1'-@"

Framing

Floor

First

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Vinings

PROJECT *: 3832226R2

DRAWN BY: MEB

CHECKED BY: CNB

ORIGINAL DRAWING

DATE PROJECT * 08/07/2018 3832.154

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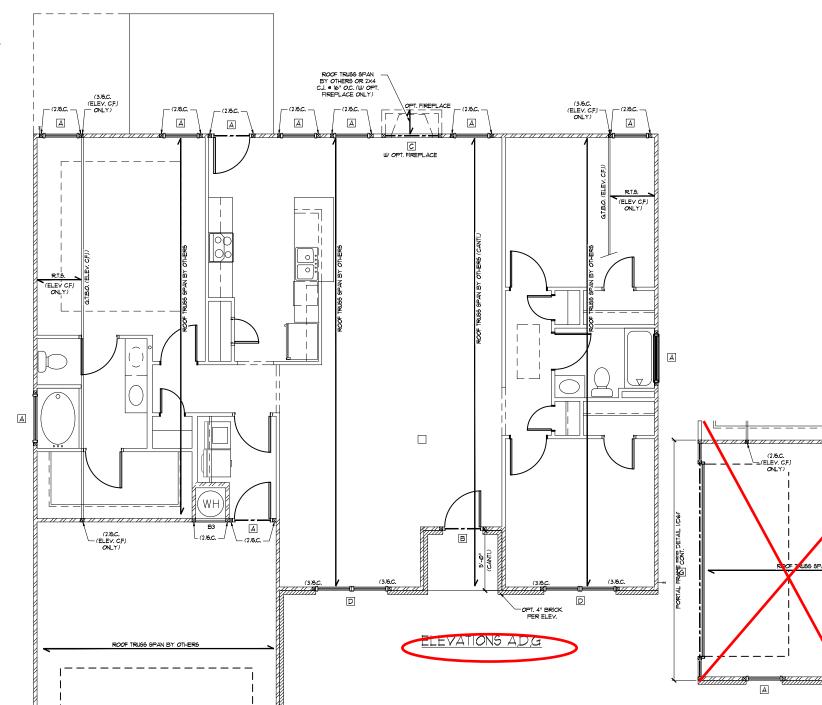
Douglas Homes . Reliance Ave x, NC 21539

Smith 2520

Дрех,

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CONT. (STD. & OPT. STONE) DOR F

PORTAL FRAME PER DETAIL I/D6f ATTACH LINTEL TO HEADER W/ (1) ROW OF 1/2" | LAG SCREWS & 1/2" O.C. (OPT. BRICK)

CONT. (W/ OPT. BRICK) G

TRUSS UPLIFT CONNECTOR SCHEDULE					
MAX. UPLIFT ROOF TO WALL FLOOR TO FLOOR TO PA					
535 LBS H2.5A PER WALL SHEATHING & FASTENERS					
1Ø1Ø LB6	(2) H2.5A	CSI6 (END = 13")	DTT2Z		
1245 LB6	HT52Ø	C5I6 (END = 13")	DTT2Z		
172Ø LBS	(2) MT52Ø	(2) C6l6 (END = 13")	DŤŤ2Z		
249Ø LB6	(2) HT52Ø	(2) CSI6 (END = 13")	HTT4		
2365 LBS	LGT3-9D62.5	(2) CSI6 (END = 13")	HTT4		

ALL PRODUCTS LISTED ARE SIMPSON STRONG-TIE. EQUIVALENT PRODUCTS
MAY BE USED PER MANIFACTURER'S SPECIFICATION.
2. UPLIFT VALUES LISTED ARE FOR SPF 2 CRADE MEPIBERS.
3. REFER TO TRASS LATOUT FER MANIF. FOR UPLIFT VALUES AND TRUSS TO
TRUSS CONNECTIONS. CONNECTIONS SPECIFICED BY TRUSS MANIFACTURER.

I RUSS CONNECTIONS CONNECTORS SPECIFIED BY TRUSS FRANCACTURER OVERRIDE THOSE LISTED ABOVE.

4. CONTACT SUMMIT FOR REQUIRED CONNECTORS WHEN LOADS EXCEED THOSE LISTED ABOVE.

NOTE: IST PLY OF ALL SHOWN GIRDER TRUSSES TO ALIGN WITH INSIDE FACE OF WALL (TYP, UNO)

NOTE: TRUSS UPLIFT LOADS SHALL BE DETERMINED FER TRUSS
MANIFACTURER IN ACCORDANCE WITH SECTION REQUIL! WALL SHEATHING
AND FASTENERS HAVE BEEN DEBIGNED TO RESIST THE WIND UPLIFT LOAD
PAIT IN ACCORDANCE WITH METHOD 3 OF SECTION REQUISS OF THE 2018
NOCE, REFER TO BRACED WALL PLANS FOR SHEATHING AND FASTENER
REQUIREMENTS.

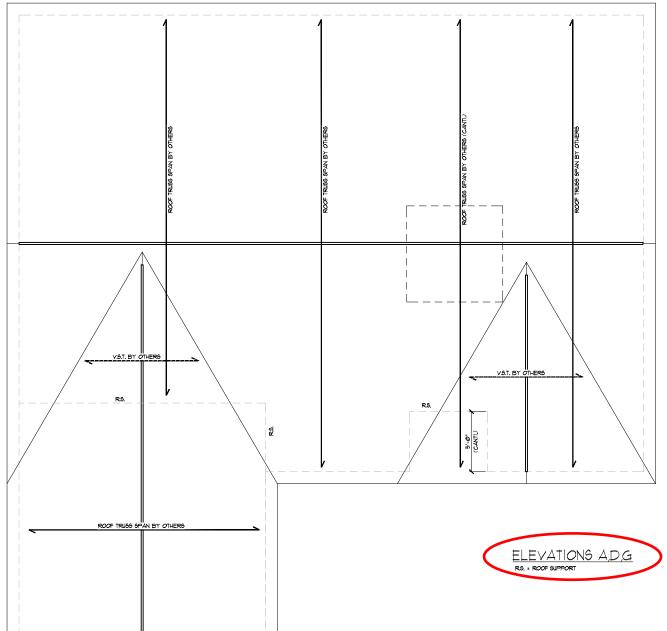
THESE PLANS ARE DESIGNED IN ACCORDANCE WITH ARCHITECTURAL PLANS PROVIDED BY SMITH DOUGLAS HOMES COMPLETED/REVISED ON ID/1/20%. IT IS THE RESPONSIBILITY OF THE CLIENT TO NOTIFY SWITHIT TEXTERENTS, LADORATORY 4 TESTING, P.C. PANY CHANGES ARE MADE TO THE ARCHITECTURAL PLANS PRIOR TO CONSTRUCTION SWITHIT TEXTERING, LADORATORY 4 TESTING, P.C. CANNOT GLARANTEE THE ADEQUACY OF THESE STRUCTURAL PLANS WHEN USED WITH ARCHITECTURAL PLANS WED DATED HER ARCHITECTURAL PLANS WED DATED ARCHITECTURAL PLANS THE DATE LISTED ABOVE.

STRUCTURAL MEMBERS ONLY

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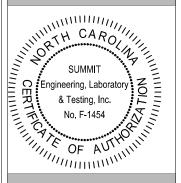
STRUCTURAL ANALYSIS BASED ON 2018 NCRC.

ROOF FRAMING PLAN SCALE: 1/8"=1"





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<u>6</u> 0<u>K</u> Douglas Homes . Reliance Ave x, NC 21539 Plan Roof Framing PROJECT Vinings (LH) CLIENT Smith D 2520 R Apex, N

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Lot 14

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

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TRUCTURAL MEMBERS

TRUCTURAL M

S5.0



REQUIRED BRACED WALL PANEL CONNECTIONS					
		MIN.	REQUIRED (CONNECTION	
METHOD	MATERIAL	THICKNESS	# PANEL EDGES	# INTERMEDIATE SUPPORTS	
CS-WSP	WOOD STRUCTURAL PANEL	3/8"	6d COMMON NAILS @ 6" O.C.	6d COMMON NAILS © 12" O.C.	
GB	GYPSUM BOARD	1/2"	5d COOLER NAIL5** # 7" O.C.	5d COOLER NAILS** # 7" O.C.	
WSP	WOOD STRUCTURAL PANEL	3/8"	6d COMMON NAILS # 6" O.C.	6d COMMON NAILS 9 12" O.C.	
PF	WOOD STRUCTURAL PANEL	7/16"	PER FIGURE R602.10.1	PER FIGURE R602.10.1	
"OR EQUIVALENT PER TABLE R102.3.5					

BRACED WALL NOTES:

- I. WALLS SHALL BE DESIGNED IN ACCORDANCE WITH SECTION R602/0
 FROM THE 2009 NORTH CAROLINA RESIDENTIAL CODE.

 2. WALLS ARE DESIGNED FOR SEISMIC ZONES A-C AND ULTIMATE WIND
 SPEEDS UP TO 300 MPH.

 3. REFER TO ARCHITECTIRAL PLAN FOR DOORWINDOW OPENING SIZES.

 4. BRACKING MATERIALS, METHODS AND FASTENIERS SHALL BE IN
 ACCORDANCE WITH TABLE R602/30.

 5. ALL BRACED WALL PANELS SHALL BE FULL WALL HEIGHT AND SHALL
 NOT EXCEED OF HEIT FOR ISOLATED PANEL METHOD AND 12 HEET FOR
 CONTINUOUS SHEATHING METHOD WITHOUT ADDITIONAL ENGINEERING
 CALCULATIONS.
- NOT EXCEED ID FIET FOR ISOLATED PANEL INTETHOD AND IS FIET FOR CONTINUOUS SHEATHING RETHOD WITHOUT ADDITIONAL PRISHERING CALCULATIONS.

 CALCULATIONS.

 (A) MINIMUM PANEL LENGTH SHALL BE PER TABLE R602/0/1.

 1. THE INTERIOR SIDE OF EXTERIOR WALLS AND BOTH SIDES OF INTERIOR WALLS SHALL BE SHATHED CONTINUOUS! Y WITH MINIMUM IS' MYPSIM BOARD (IND).

 FOR CONTINUOUS SHEATHING METHOD, EXTERIOR WALLS SHALL BE SHEATHED ON ALL SHEATHING METHOD, EXTERIOR WALLS SHALL BE SHEATHING METHOD, EXTERIOR WALLS SHALL BE SHEATHING METHOD, EXTERIOR WALLS SHALL BE SHEATHING METHOD, EXTERIOR SHILL AREAS SHEWARD RACKED WALL PANELS, AND ON GABLE END WALL.

 FIN. ORS SHALL NOT BE CANTILEVERED MORE THAN 24" BEYOND THE FOUNDATION OR BEARNS WALL BELOW WITHOUT ADDITIONAL DISINEERING CALCULATIONS.

 (B) A BRACED WALL PANEL SHALL BELOCATED WITHIN IS FEET OF EACH END OF A BRACED WALL INTO.

 10. THE MAXIMIT BOOR DISTANCE BETWEEN BRACED WALL PANELS SHALL NOT EXCEED I FIELT.

 11. THE MAXIMIT BOOR DISTANCE BETWEEN BRACED WALL PANELS SHALL NOT EXCEED I FIELD.

 12. MASONRY OR CONCRETE SITH WALLS WITH A LENGTH OF 48" OR LESS SUPPORTING A BRACED WALL PANEL SHALL BE DESIGNED IN ACCORDANCE WITH SECTION REQUIPMENT.

 13. BRACED WALL PANEL CONNECTIONS OF INCORPORATION SHALL BE DESIGNED IN ACCORDANCE WITH SECTION REQUIPMENT.

 14. BOST STREET IN ACCORDANCE WITH SECTION REQUIPMENT.

 15. CRIPPLE WALLS AND WALK OUT BASEMENT WALLS SHALL BE DESIGNED IN ACCORDANCE WITH SECTION REQUIPMENT.

 16. CRIPPLE WALLS AND WALK OUT BASEMENT WALLS SHALL BE DESIGNED IN ACCORDANCE WITH FIGURE REQUIPMENT.

 17. ADDITIONAL SHALL BE DESIGNED IN ACCORDANCE WITH FIGURE REQUIPMENT WALLS SHALL BE DESIGNED IN ACCORDANCE WITH SECTION REQUIPMENT.

 18. APPRIESE WALL SHALL BE DESIGNED IN ACCORDANCE WITH FIGURE REQUIPMENT WALLS SHALL BE DESIGNED IN ACCORDANCE WITH SECTION REQUIPMENT.

- ON SCHEMATIC, SHADED WALLS INDICATE BRACED WALL PANELS.
 ABBREVIATIONS:

GB = GYP9UM BOARD
C5-XXX = CONT, SHEATHED
PF = PORTAL FRAME
PF = WOOD STRUCTURAL PANEL
PG = ENG, NEERED SOLUTION
PF = NG = ENG, PORTAL FRAME

THESE PLANS ARE DESIGNED IN ACCORDANCE WITH ARCHITECTURAL PLANS PROVIDED BY SHITH DOKALAS HOTES COMPLETED REVISED ON DOLLOWS. IT IS THE RESPONSIBILITY OF THE CLIENT TO NOTIFY SUMMIT EXISTERING, LADORATORY I TESTING, P.C. FANY CHANCES ARE MODE TO THE ARCHITECTURAL PLANS PRIOR TO CONSTRUCTION, SUMMIT EXISTERING, LADORATORY I TESTING, P.C. CANNOT GLARANTEE THE ADEQUACY OF THESE STRUCTURAL PLANS WHEN USED WITH ARCHITECTURAL PLANS DATED DIFFERENTLY THAN THE DATE LISTED ABOVE.

FIRST FLOOR BRACING (FT)						
CONTINUOUS SHEATHING METHOD: RECTANGLE I						
REQUIRED PROVIDED						
FRONT 5.8 IT.Ø						
RIGHT 7,4 13,1						
REAR 5.8 34.0						
LEET	74	323				

FIRST FLOOR BRACING (FT)						
CONTINUOUS SHEATHING METHOD: RECTANGLE 2						
	REQUIRED PROVIDED					
FRONT	IT.Ø					
RIGHT 3,1 13,1						
REAR 3.0 34.0						
LEFT	LEFT 3.1 32.3					

INSTALL HOLD-DOWNS PER SECTION R602:10.4 AND FIGURE R602:10.3(4) OF THE 2018 NCRC.

STRUCTURAL MEMBERS ONLY

ENGINEERING SEAL APPLIES ONLY TO STRUCTURAL COMPONENTS ON THIS DOCUMENT, SEAL DOES NOT INCLUDE CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, PROCEDURES OR SAFETY PRECAUTIONS.

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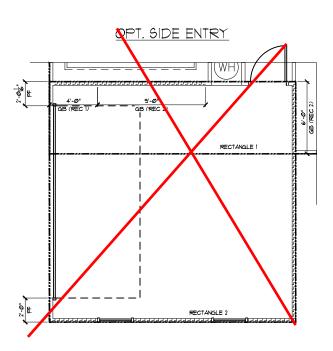
STRUCTURAL ANALYSIS BASED ON 2018 NCRC.

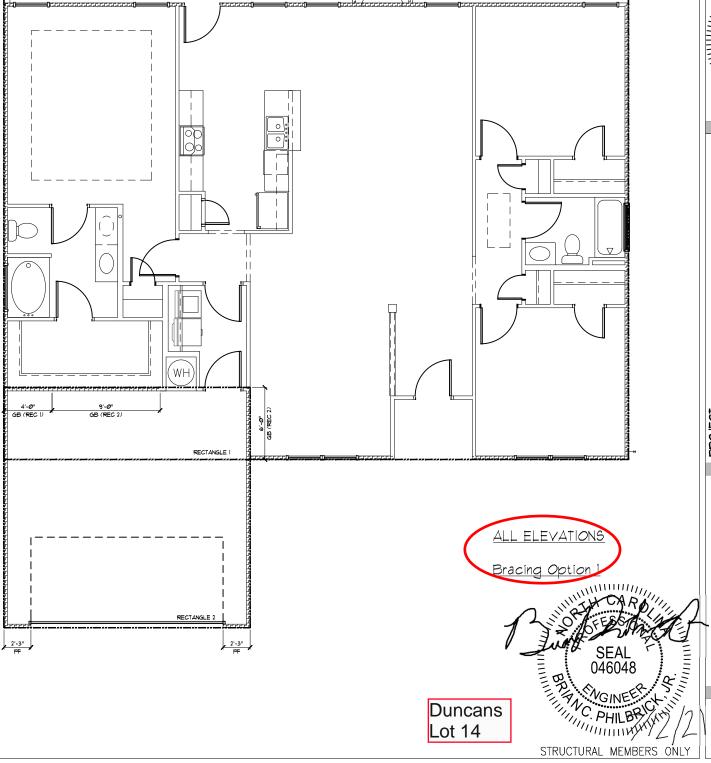
FIRST FLOOR BRACING PLAN SCALE: 1/8"=1"



FIRST FLOOR BRACING (FT)							
CONTINUOUS SHEATHING METHOD: SIDE ENTRY RECTANGLE I							
	REQUIRED PROVIDED						
FRONT	15.0						
RIGHT	RIGHT 7.4 34.0						
REAR	5.8	24.6					
LEFT 7.4 28.3							

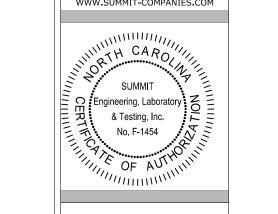
FIRST FLOOR BRACING (FT)					
CONTINUOUS SHEATHING METHOD: SIDE ENTRY RECTANGLE 2					
REQUIRED PROVIDED					
FRONT 3.0 14.5					
RIGHT 3.1 17.0					
REAR 3.0 4.5					
LEFT 3.1 6Ø					
	HING METHOD: SIDE EN REQUIRED 3.0 3.1 3.0				







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<u>ģ</u> <u>o</u> 0X Douglas Homes . Reliance Ave x, NC 21539 Bracing Floor Vinings CLIENT Smith I 2520 R Apex, 1 First

CURRENT DRAWING

É E

DATE: 10/17/2019

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

PROJECT *: 3832226R2

DRAWN BY: MEB

CHECKED BY: CNB

ORIGINAL DRAWING

DATE PROJECT * Ø8/Ø7/2Ø18 3832.154

REFER TO COVER SHEET FOR A COMPLETE LIST OF REVISIONS

S7.0

REQUIRED BRACED WALL PANEL CONNECTIONS						
		MIN.	REQUIRED C	ONNECTION		
METHOD	METHOD MATERIAL		# PANEL EDGES	 INTERMEDIATE SUPPORTS 		
C5-W5P	WOOD STRUCTURAL PANEL	3/8"	6d COMMON NAILS 6 O.C.	6d COMMON NAILS # 12" O.C.		
GB	GYPSUM BOARD	1/2"	5d COOLER NAIL6** # 7" O.C.	5d COOLER NAIL5** ⊕ 1" O.C.		
WSP	WOOD STRUCTURAL PANEL	3/8"	6d COMMON NAILS 9 6" O.C.	6d COMMON NAILS # 12" O.C.		
PF	WOOD STRUCTURAL PANEL	7/16"	PER FIGURE R602.10.1	PER FIGURE R602.10.1		
"OR EQUIVALENT PER TABLE RT02.3.5						

BRACED WALL NOTES:

- WALLS SHALL BE DESIGNED IN ACCORDANCE WITH SECTION R602/0
 FROM THE 2019 MORTH CAROLINA RESIDENTIAL CODE.

 WALLS ARE DESIGNED FOR SEISMIC ZONES A-C AND ULTIMATE WIND SPEEDS UP TO 190 MPH.

 REFER TO ARCHITECTURAL, PLAN FOR DOORWINDOW OPENNG SIZES.

 RACKING MATERIALS, METHOOS AND FASTENERS SHALL BE IN ACCORDANCE WITH TABLE R607/20.

 ALL BRACED WALTENIALS SHALL BE FILL WALL HEIGHT AND SHALL NOT EXCEED WO FEET FOR ISOLATED PANEL METHOD AND IS TEET FOR CONTINUOUS SHEATHING METHOD WITHOUT ADDITIONAL ENGINEERING CALCULATIONS.

 MINIMUM PANEL LEDGTH SHALL BE FER TABLE R607/20.

 THE NITERIOR SIDE OF EXTERIOR WALLS AND BOTH SIDES OF INTERIOR WALLD SHALL BE BEATHED CONTINUOUSLY WITH MINIMUM 1/2" GYPSWI
- WALL 9 SHALL BE SHEATHED CONTINUOUSLY WITH MINIMIN 12" GYPSUM BOARD (IND).

 8. FOR CONTINUOUS SHEATHING METHOD, EXTERCOR WALL 9 SHALL BE SHEATHED ON ALL SHEATHABLE SURFACES INCLUDING INFILL AREAS BETWEEN BRACED WALL PARELS, ABOYE AND BELOW WALL OPENINGS, AND ON GABLE END WALLS.

 9. FLOORS SHALL NOT BE CANTILEVERED MORE THAN 24" BEYOND THE FOUNDATION OR BEARING WALL BELOW WITHOUT ADDITIONAL BY SHEATH ON THE SHALL BELOW WITHOUT ADDITIONAL DISNESSING CALCULATIONS.

 10. A BRACED WALL PANEL SHALL BE LOCATED WITHIN IT FEET OF EACH END OF A BRACED WALL LINE.

 11. THE MAXIMM EDGE DISTANCE BETWEEN BRACED WALL PANELS SHALL NOT EXCEED 21 FEET.

- 11. THE MAXIMM EDAE DISTANCE BETWEEN BRACED WALL PANELS SHALL NOT EXCEED 3 FEBT.

 12. MASONRY OR CONCRETE STEM WALLS WITH A LINGTH OF 49' OR LESS SUPPORTING A BRACED WALL PANEL SHALL BE DESIGNED IN ACCORDANCE WITH FIGURE READ 343 OF THE 2008 NORC.

 13. BRACED WALL PANEL CONNECTIONS TO FLOORICELING SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION READ 304.4

 14. BRACED WALL PANEL CONNECTIONS TO REOP SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION READ 304.5

 15. CRIPPLE WALLS AND WALK OUT BASEMENT WALLS SHALL BE DESIGNED IN ACCORDANCE WITH SECTION READ 304.0

 16. PORTAL WALLS SHALL BE DESIGNED IN ACCORDANCE WITH FIGURE READ 310 (IND)

RFAR

HOUSE

FRONT

- R602.01 (UNO)

 11. ON SCHEMATIC, SHADED WALLS INDICATE BRACED WALL PANELS.

 18. ABBREVIATIONS:

GB = GYPSIM BOARD UBP = WOOD STRUCTURAL PANEL
C5-XXX = CONT. SHEATHED ENG = ENGINEERED SOLUTION
FF = PORTAL FRAME
FF-ENG = ENG. PORTAL FRAME

THESE PLANS ARE DESIGNED IN ACCORDANCE WITH ARCHITECTURAL PLANS PROVIDED BY SMITH DOGGLAS HOMES COMPLETED NEVISED ON BUILDING IT IS THE RESPONSIBILITY OF THE CLIENT TO NOTIFY SUMMIT EXAMERENCY, LADORATORY I TESTING, P.C. FANY CHANGES ARE MODE TO THE ARCHITECTURAL PLANS PRIOR TO CONSTRUCTION SUMMIT EXAMERING, LADORATORY I TESTING, P.C. CANNOT GLARANTEE THE ADEQUACY OF THESE STRUCTURAL PLANS WHEN USED WITH ARCHITECTURAL PLANS DATED DIFFERENTLY THAN THE DATE LISTED ABOVE.

FIRST F	FIRST FLOOR BRACING (FT)					
CONTINUOU	CONTINUOUS SHEATHING METHOD: RECTANGLE 1					
	REQUIRED PROVIDED					
FRONT	5.8	15.0				
RIGHT	1,4	12.00				
REAR	5.8	13.6				
LEFT	1.4	IT.3				

FIRST FLOOR BRACING (FT)					
CONTINUOUS	SHEATHING METHOD: R	ECTANGLE 2			
	REQUIRED PROVIDED				
FRONT	3.0	17.5			
RIGHT	3.1	12.0			
REAR	3.0	13.6			
1,000	21	145			

INSTALL HOLD-DOUNS PER SECTION R602:10.4 AND FIGURE R602:103(4) OF THE 2018 NCRC.

STRUCTURAL MEMBERS ONLY

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STRUCTURAL ANALYSIS BASED ON 2018 NCRC.

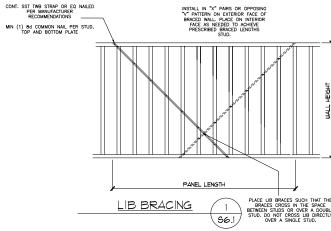
FIRST FLOOR BRACING PLAN

SCALE: 1/8"=1"

INSTALL HOLD-DOWNS PER SECTION R602.10.4 AND FIGURE R602.10.3(4) OF THE 2018 NCRC.

SEE SHEET ST.Ø FOR NOTES AND MORE INFORMATION

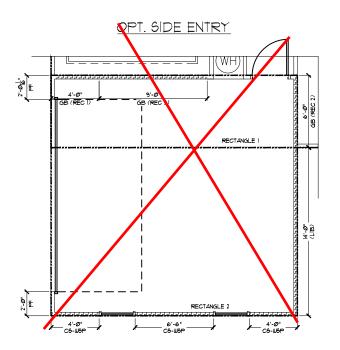
_ 1Ø'-2½". (LIB)

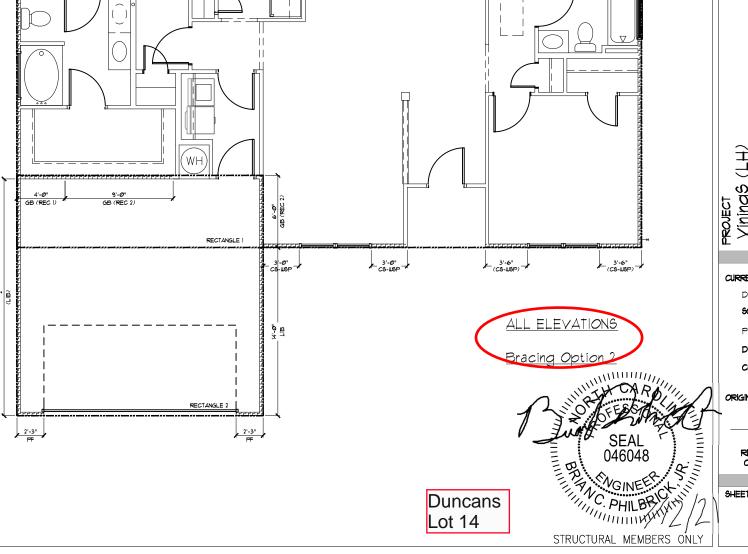


	TH2/3H 1.2kW
PANEL LENGTH	
LIB BRACING 1 BRACE IB BRACES BEWEEN ST	BRACES SUCH THAT THE CROSS IN THE SPACE UDGO OR OVER A DOUBLE VOT CROSS LIB DIRECTLY R A SINGLE STUD.

FIRST FLOOR BRACING (FT)					
CONTINUOUS SHEATHING METHOD: SIDE ENTRY RECTANGLE I					
REQUIRED PROVIDED					
FRONT	5.8	15.0			
RIGHT	1.4	12			
REAR	5.8	13.6			
LEFT	1,4	17.3			

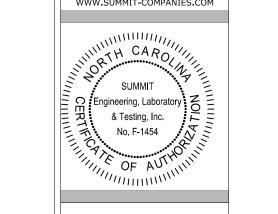
FIRST FLOOR BRACING (FT)					
CONTINUOUS SHEATHING METHOD: SIDE ENTRY RECTANGLE 2					
REQUIRED PROVIDED					
FRONT	3.0	27.5			
RIGHT	3.1	12			
REAR	3.0	13.6			
LEFT	3.1	14.5			







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<u>ģ</u> <u>o</u> 0X Douglas Homes . Reliance Ave x, NC 21539 Bracing Floor É E Vinings Smith D 2520 A Apex, First

CURRENT DRAWING

DATE: 10/17/2019

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

PROJECT *: 3832226R2

DRAWN BY: MEB

CHECKED BY: CNB

ORIGINAL DRAWING

DATE PROJECT * 08/07/2018 3832.154

REFER TO COVER SHEET FOR A COMPLETE LIST OF REVISIONS

S7.1

GENERAL STRUCTURAL NOTES:

- 1. The design professional whose seal appears on these drawings is the structural engineer of record (SER) for this project. The SER bears the responsibility of the primary structural elements and the performance of this structure. No other party may revise, alter, or delete any structural aspects of these construction documents without written permission of SUMMIT Engineering, Laboratory & Testing, P.C. (SUMMIT) or the SER. For the purposes of these construction documents the SER and SUMMIT shall be considered the same entity.
- The structure is only stable in its completed form. The contractor shall provide all required temporary bracing during construction to stabilize the structure.
- 3. The SER is not responsible for construction sequences. methods, or techniques in connection with the construction of this structure. The SER will not be held responsible for the contractor's failure to conform to the contract documents, should any non-conformities occur.
- 4. Any structural elements or details not fully developed on the construction drawings shall be completed under the direction of a licensed professional engineer. These shop drawings shall be submitted to SUMMIT for review before any construction begins. The shop drawings will be reviewed for overall compliance as it relates to the structural design of this project. Verification of the shop drawings for dimensions, or for actual field conditions, is not the responsibility of the SER or SUMMIT.
- 5. Verification of assumed field conditions is not the responsibility of the SER. The contractor shall verify the field conditions for accuracy and report any discrepancies to SUMMIT before construction begins.
- 6. The SER is not responsible for any secondary structural elements or non-structural elements, except for the elements specifically noted on the structural drawings.
- This structure and all construction shall conform to all applicable sections of the international residential code.
- This structure and all construction shall conform to all applicable sections of the 2018 North Carolina Residential Code (NCRC) and any local codes or restrictions

FOUNDATIONS:

- 1. Foundations shall be constructed in accordance with chapter 4 of the 2018 NC Residential Building Code (Special consideration shall be given to Chapter 45 in wind zones above 130mph)
- 2. Footing sizes based on a presumptive soil bearing capacity of 2000 PSF. Contractor is solely responsible for verifying the suitability of the site soil conditions at the time of construction
- Maximum depth of unbalanced fill against masonry walls to be as specified in section R404.1 of the 2018 NCRC
- The structural engineer has not performed a subsurface investigation. Verification of this assumed value is the responsibility of the owner or the contractor. Should any adverse soil condition be encountered the SER must be contacted before proceeding.
- The bottom of all footings shall extend below the frost line for the region in which the structure is to be constructed. However, the bottom of all footings shall be a minimum of 12" below grade.
- 6. Any fill shall be placed under the direction or recommendation of a licensed professional engineer. The resulting soil shall be compacted to a minimum of 95% maximum dry density.
- 7. Excavations of footings shall be lined temporarily with a 6 mil polyethylene membrane if placement of concrete does not occur within 24 hours of excavation.
- 8. No concrete shall be placed against any subgrade containing water, ice, frost, or loose material.
- 9. Each crawl space pier shall bear in the middle third of its respective footing and each girder shall bearing in the middle third of the piers. Pilasters to be bonded to perimeter foundation wall
- 10. Crawl spaced to be graded level and clear of all debris
- 11. Provide foundation waterproofing and drain with positive slope to outlet as required by site conditions
- 12. Energy efficiency compliance and insulation of the structure to be in accordance with chapter 11 of the 2018 NCRC

- 1. Concrete shall have a normal weight aggregate and a minimum compressive strength (f'c) at 28 days of 3000 psi, unless otherwise noted on the plan.
- 2. Concrete shall be proportioned, mixed, and placed in accordance with the latest editions of ACI 318: "Building Code Requirements for Reinforced Concrete" and ACI 301: "Specifications for Structural Concrete for Buildings".
- 3. Air entrained concrete must be used for all structural elements exposed to freeze/thaw cycles and deicing chemicals. Air entrainment amounts (in percent) shall be within -1% to +2% of target values as follows: 3.1. Footings: 5%
 - 3.2. Exterior Slabs: 5%
- 4. No admixtures shall be added to any structural concrete without written permission of the SER
- 5. Concrete slabs—on—grade shall be constructed in accordance with ACI 302.1R-96: "Guide for Concrete Slab and Slab Construction".
- 6. The concrete slab-on-grade has been designed using a subgrade modulus of k=250 pci and a design loading of 200 psf. The SER is not responsible for differential settlement, slab cracking or other future defects resulting from unreported conditions not in accordance with the above assumptions
- 7. Control or saw cut joints shall be spaced in interior slabs-on-grade at a maximum of 15'-0" O.C. and in exterior slabs-on-grade at a maximum of 10'-0" unless otherwise noted.
- 8. Control or saw cut joints shall be produced using conventional process within 4 to 12 hours after the slab has been finished
- Reinforcing steel may not extend through a control joint. Reinforcing steel may extend through a saw cut joint.
- 10. All welded wire fabric (W.W.F.) for concrete slabs-on-grade shall be placed at mid-depth of slab. The W.W.F. shall be securely supported during the concrete pour. Fibermesh may be used in lieu of W.W.F.

CONCRETE REINFORCEMENT:

- 1. Fibrous concrete reinforcement, or fibermesh, specified in concrete slabs-on-grade may be used for control of cracking due to shrinkage and thermal expansion/contraction, lowered water migration, an increase in impact capacity, increased abrasion resistance, and residual strenath.
- 2. Fibermesh reinforcing to be 100% virgin polypropylene fibers containing no reprocessed olefin materials and specifically manufactured for use as concrete secondary reinforcement
- 3. Application of fibermesh per cubic yard of concrete shall egual a minimum of 0.1% by volume (1.5 pounds per cubic yard)
- 4. Fibermesh shall comply with ASTM C1116, any local building code requirements, and shall meet or exceed the current industry standard.
- 5. Steel Reinforcing bars shall be new billet steel conforming to ASTM A615, grade 60.
- 6. Detailing, fabrication, and placement of reinforcing steel shall be in accordance with the latest edition of ACI 315: "Manual of Standard Practice for Detailing Concrete Structures"
- Horizontal footing and wall reinforcement shall be continuous and shall have 90° bends, or corner bars with the same size/spacing as the horizontal reinforcement with a class B tension splice.
- 8. Lap reinforcement as required, a minimum of 40 bar diameters for tension or compression unless otherwise noted. Splices in masonry shall be a minimum of 48 bar diameters.
- 9. Where reinforcing dowels are required , they shall be equivalent in size and spacing to the vertical reinforcement. The dowel shall extend 48 bar diameters vertically and 20 bar diameters into the footing.
- 10. Where reinforcing steel is required vertically, dowels shall be provided unless otherwise noted.

WOOD FRAMING:

- 1. Solid sawn wood framing members shall conform to the specifications listed in the latest edition of the "National Design Specification for Wood Construction" (NDS). Unless otherwise noted, all wood framing members are designed to be Spruce-Pine-Fir (SPF) #2.
- 2. LVL or PSL engineered wood shall have the following minimum design values:
 - 2.1. E = 1.900.000 psi
 - 2.2. Fb = 2600 psi
 - 2.3. Fy = 285 psi
- 2.4. Fc = 700 psi3. Wood in contact with concrete, masonry, or earth shall be pressure treated in accordance with AWPA standard C-15. All other moisture exposed wood shall be treated in

accordance with AWPA standard C-2

- 4. Nails shall be common wire nails unless otherwise noted.
- 5. Lag screws shall conform to ANSI/ASME standard B18.2.1-1981. Lead holes for lag screws shall be in accordance with NDS specifications.
- 6. All beams shall have full bearing on supporting framing members unless otherwise noted.
- 7. Exterior and load bearing stud walls are to be 2x4 SPF#2 @16" O.C. unless otherwise noted. Studs shall be continuous from the sole plate to the double top plate. Studs shall only be discontinuous at headers for window/door openings. A minimum of one king stud shall be placed at each end of the header. King studs shall he continuous
- 8. Individual studs forming a column shall be attached with one 10d nail @6" O.C. staggered. The stud column shall be continuous to the foundation or beam. The column shall be fully blocked at all floor levels to ensure proper load transfer
- 9. Multi-ply beams shall have each ply attached wth (3)10d nails @ 24" O.C.
- 10. Flitch beams and four and five ply beams shall be bolted together with (2) rows of 1/2" dia. through bolts staggered @24" O.C. w/ 2" edge distance and (2) bolts located at 6" from each end, unless noted otherwise.

- 1. The wood truss manufacturer/fabricator is responsible for the design of the wood trusses. Submit sealed shop drawings and supporting calculations to the SER for review prior to fabrication. The SER shall have a minimum of five (5) days for review. The review by the SER shall review for overall compliance with the design documents. The SER shall assume no responsibility for the correctness for the structural design for the wood trusses.
- 2. The wood trusses shall be designed for all required loadings as specified in the local building code, the ASCE Standard "Minimum Design Loads for Buildings and Other Structures." (ASCE 7-10), and the loading requirements shown on these specifications. The truss drawings shall be coordinated with all other construction documents and provisions provided for loads shown on these drawings including but not limited to HVAC equipment, piping, and architectural fixtures attached to the trusses.
- 3. The trusses shall be designed, fabricated, and erected in accordance with the latest edition of the "National Design Specification for Wood Construction." (NDS) and "Design" Specification for Metal Plate Connected Wood Trusses
- 4. The truss manufacturer shall provide adequate bracing information in accordance with "Commentary and Recommendations for Handling, Installing, and Bracing Metal Plate Connected Wood Trusses" (HIB-91). This bracing. both temporary and permanent, shall be shown on the shop drawings. Also, the shop drawings shall show the required attachments for the trusses.
- 5. Any chords or truss webs shown on these drawings have been shown as a reference only. The final design of the trusses shall be per the manufacturer.

WOOD STRUCTURAL PANELS:

- 1. Fabrication and placement of structural wood sheathing shall be in accordance with the APA Design/Construction Guide "Residential and Commercial," and all other applicable APA standards.
- All structurally required wood sheathing shall bear the mark of the APA.
- Wood wall sheathing shall comply with the requirements of local building codes for the appropriate state as indicated on these drawings. Refer to wall bracing notes in plan set for more information. Sheathing shall be applied with the long direction perpendicular to framing, unless noted otherwise.
- Roof sheathing shall be APA rated sheathing exposure 1 or 2. Roof sheathing shall be continuous over two supports and attached to its supporting roof framing with (1)-8d CC nail at 6"o/c at panel edges and at 12"o/c in panel field unless otherwise noted on the plans. Sheathing shall be applied with the long direction perpendicular to framing. Sheathing shall have a span rating consistent with the framing spacing. Use suitable edge support by use of plywood clips or lumber blocking unless otherwise noted. Panel end joints shall occur over framing. Apply building paper over the sheathing as required by the state Building Code.
- Wood floor sheathing shall be APA rated sheathing exposure 1 or 2. Attach sheathing to its supporting framing with (1)-8d CC ringshank nail at 6"o/c at panel edges and at 12"o/c in panel field unless otherwise noted on the plans. Sheathing shall be applied perpendicular to framing. Sheathing shall have a span rating consistent with the framing spacing. Use suitable edge support by use of T&G plywood or lumber blocking unless otherwise noted. Panel end joints shall occur over framing. Apply building paper over the sheathing as required by the state Building
- 6. Sheathing shall have a 1/8" gap at panel ends and edges as recommended in accordance with the APA.

STRUCTURAL FIBERBOARD PANELS:

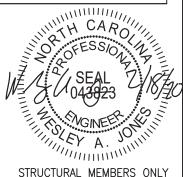
- 1. Fabrication and placement of structural fiberboard sheathing shall be in accordance with the applicable AFA standards
- 2. Fiberboard wall sheathing shall comply with the requirements of local building codes for the appropriate state as indicated on these drawings. Refer to wall bracing notes in plan set for more information.
- Sheathing shall have a 1/8" gap at panel ends and edges are recommended in accordance with the AFA.

EXTERIOR WOOD FRAMED DECKS:

1. Decks are to be framed in accordance with local building codes and as referenced on the structural plans, either through code references or construction details.

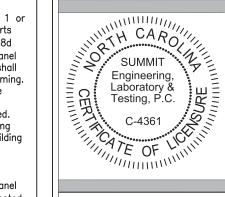
STRUCTURAL STEEL:

- 1. Structural steel shall be fabricated and erected in accordance with the American Institute of Steel Construction "Code of Standard Practice for Steel Buildings and Bridges" and of the manual of Steel Construction "Load Resistance Factor Design" latest editions.
- All steel shall have a minimum yield stress (Fy) of 36 ksi unless otherwise noted.
- Welding shall conform to the latest edition of the American Welding Society's Structural Welding Code AWS D1.1. Electrodes for shopt and field welding shall be class E70XX. All welding shall be performed by a certified welder per the above standards.





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Specifications 21. glas Homes Trail, Suite , GA 30188 110 Village T Woodstock, (Dougl and Notes Smith |

2

CURRENT DRAWING

Details

Standard

DATE: 2/18/20

SCALE: NTS

PROJECT #: 3832 DRAWN BY: LBV

CHECKED BY: WAI

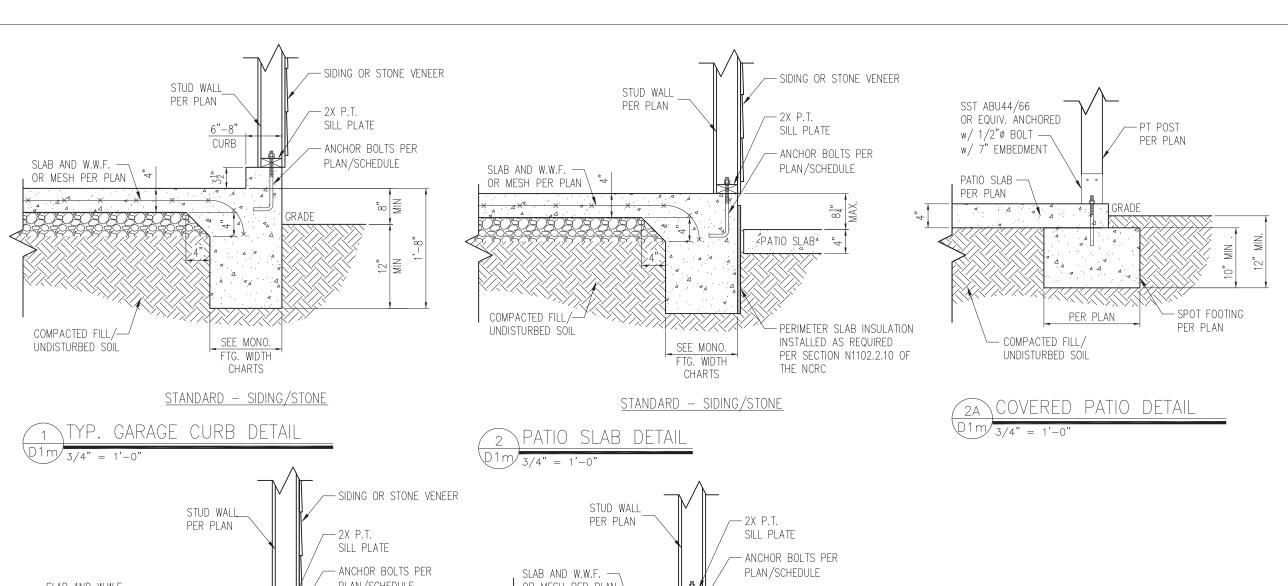
ORIGINAL DRAWING

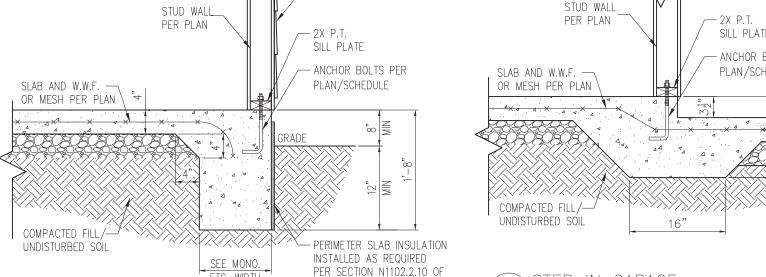
DATE PROJECT # 1/7/16 3832

REFER TO COVER SHEET FOR A COMPLETE LIST OF REVISIONS

SHEET

CS₂





CHARTS STANDARD - SIDING/STONE

THE NCRC

TVD CLAD DETAIL	WALL ANCHOR SCHEDULE
3 TYP. SLAB DETAIL	TYPE OF ANCHOR
$01m\sqrt{3/4"} = 1'-0"$	
	1/2"ø A307 BOLTS w/
TES:	STD. 90° BEND
	II

FTG. WIDTH

- 1. REFER TO GENERAL NOTES & SPECIFICATIONS ON SHEET CS2 FOR ADDITIONAL INFORMATION.
- 2. PROVIDE 6 MIL VAPOR BARRIER UNDER ALL SLABS-ON-GRADE.
- 3. SEE ARCH. DWGS. FOR ALL TOP OF THE SLAB ELEVATIONS, SLOPES AND DEPRESSIONS.

WALL ANCHOR SCHEDULE				
TYPE OF ANCHOR	MIN. CONC.	SPACING	INTERIOR	EXTERIOR
	EMBEDMENT	EMBEDMENT	WALL	WALL
1/2"ø A307 BOLTS w/	7"	6'-0"	YES	YES
STD. 90° BEND				
SST - MAS	4"	5'-0"	NO	YES
HILTI KWIK BOLT KBI 1/2-2-3/4	2-1/4"	6'-0"	YES	NO
1/2"ø HILTI THREADED ROD	7"	6'-0"	YES	YES
w/ HIT HY150 ADHESIVE				

NOTE: INSTALL ALL ANCHORS 12" MAX. FROM ALL BOTTOM PLATE ENDS AND JOINTS.

MONOLITHIC FOOTING WIDTH

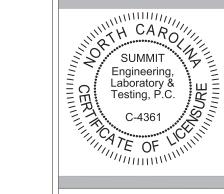
# OF STORIES	WIDTH BASED ON SOIL BEARING CAPACITY				
	1500 PSF 2000 PSF 2500 PS				
1 STORY - STD.	16"	16"	16"		
1 STORY - BRICK VENEER	21"*	21"*	21"*		
2 STORY - STD.	20"	16"	16"		
2 STORY - BRICK VENEER	25"*	21"*	21"*		
*5" BRICK LEDGE HAS BEEN ADDED TO THE MONOLITHIC					

FOOTING WIDTH FOR BRICK SUPPORT





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2 21 Slab Details Smith Douglas Homes 110 Village Trail, Suite 2 Woodstock, GA 30188 Standard Details Monolithic

CURRENT DRAWING

DATE: 2/18/20

SCALE: NTS

PRO1ECT # · 3832

DRAWN BY: LBV

CHECKED BY: WAJ

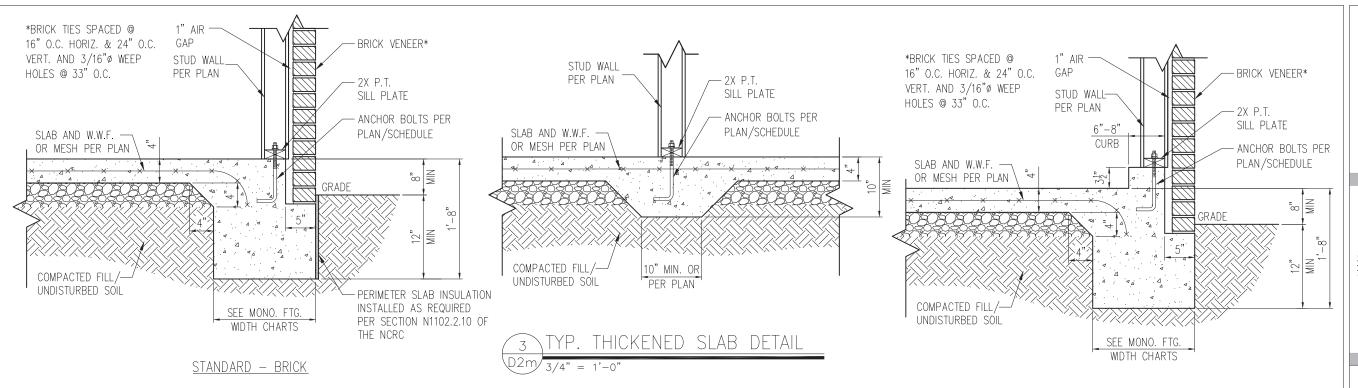
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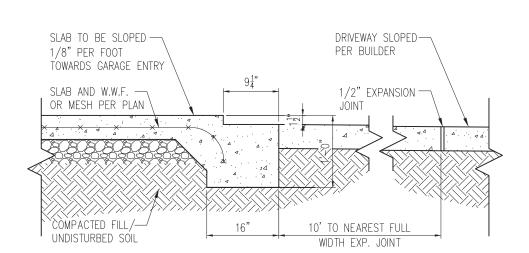
DATE PROJECT # 1/7/16

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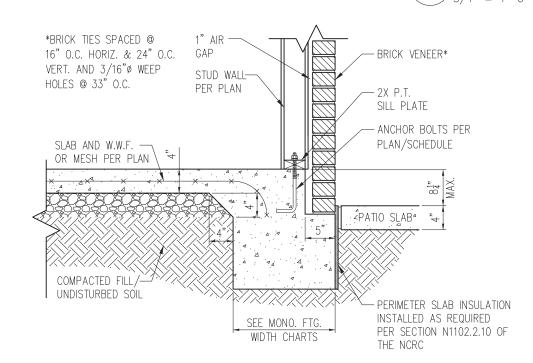
D₁m





YP. SLAB DETAIL W/ BRICK VENEER



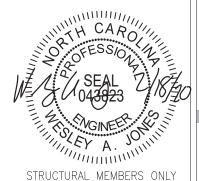


STANDARD - BRICK

PATIO SLAB DETAIL W/BRICK VENEER

NOTES

- 1. REFER TO GENERAL NOTES & SPECIFICATIONS ON SHEET CS2 FOR ADDITIONAL INFORMATION.
- 2. PROVIDE 6 MIL VAPOR BARRIER UNDER ALL SLABS-ON-GRADE.
- 3. SEE ARCH. DWGS. FOR ALL TOP OF THE SLAB ELEVATIONS, SLOPES AND DEPRESSIONS.



STANDARD - BRICK

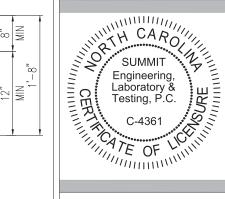
TYP. GARAGE CURB DETAIL

W/ BRICK VENEER

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Standard Details Monolithic Slab Details Smith Douglas Homes 110 Village Trail, Suite 215 Woodstock, GA 30188

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DATE: 2/18/20

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PROJECT #: 3832

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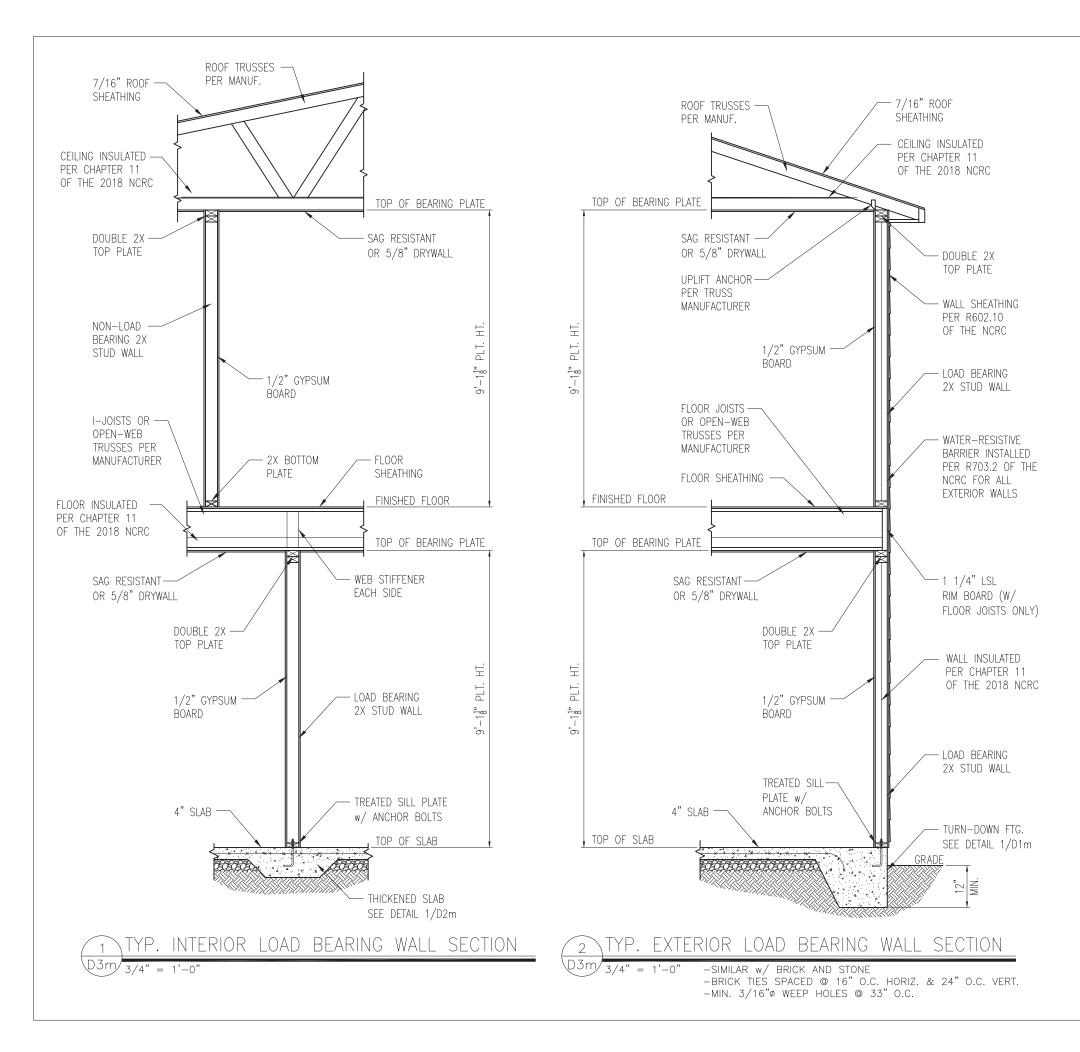
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D₂m





Slab Details Smith Douglas Homes 110 Village Trail, Suite 2 Woodstock, GA 30188 Standard Details Monolithic

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21

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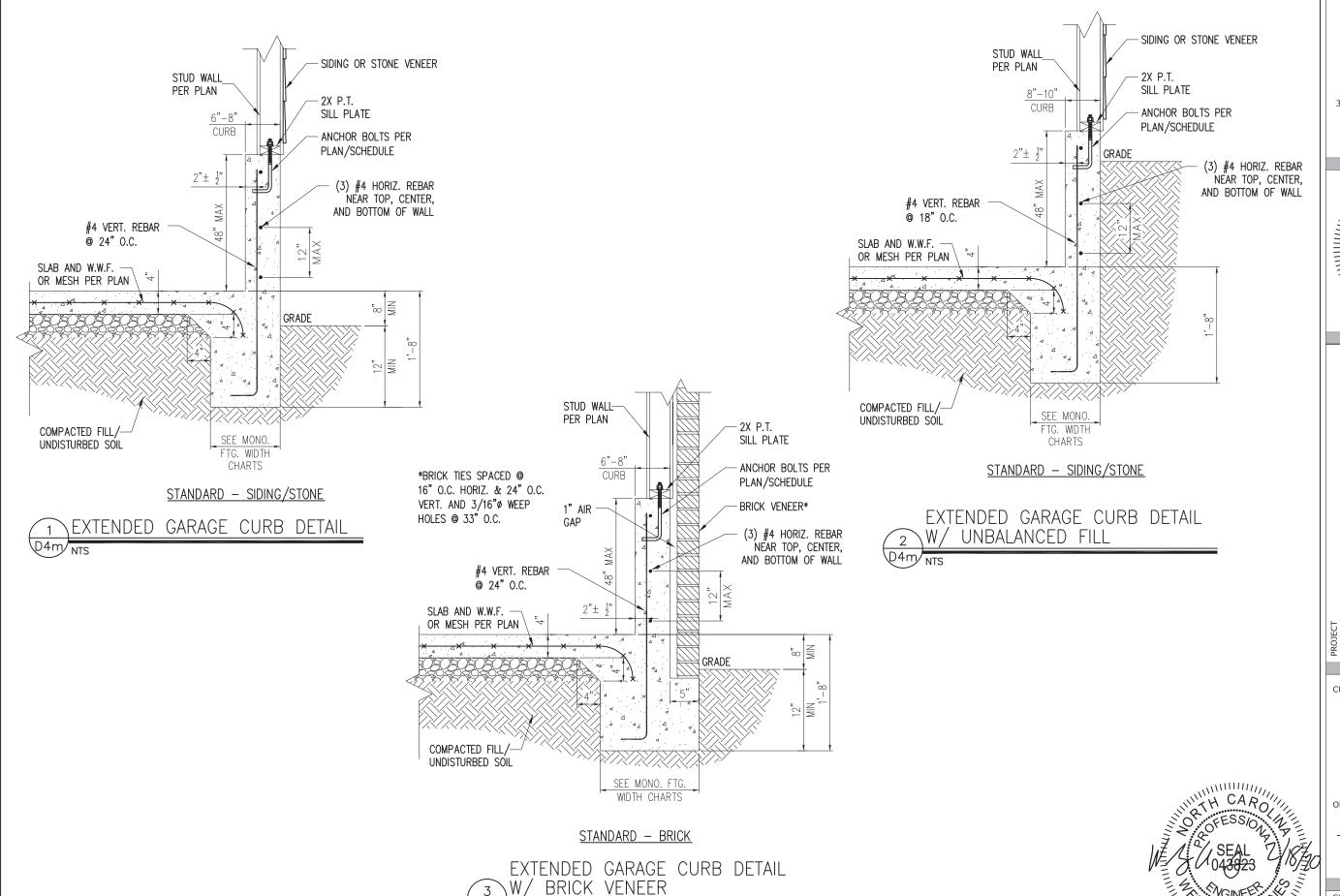
D₃m

NOTES:
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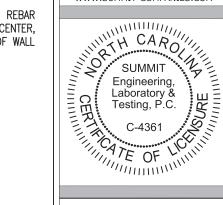




D4m/NTS



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Standard Details

Monolithic Slab Details

Smith Douglas Homes
110 Village Trail, Suite 21!
Woodstock, GA 30188

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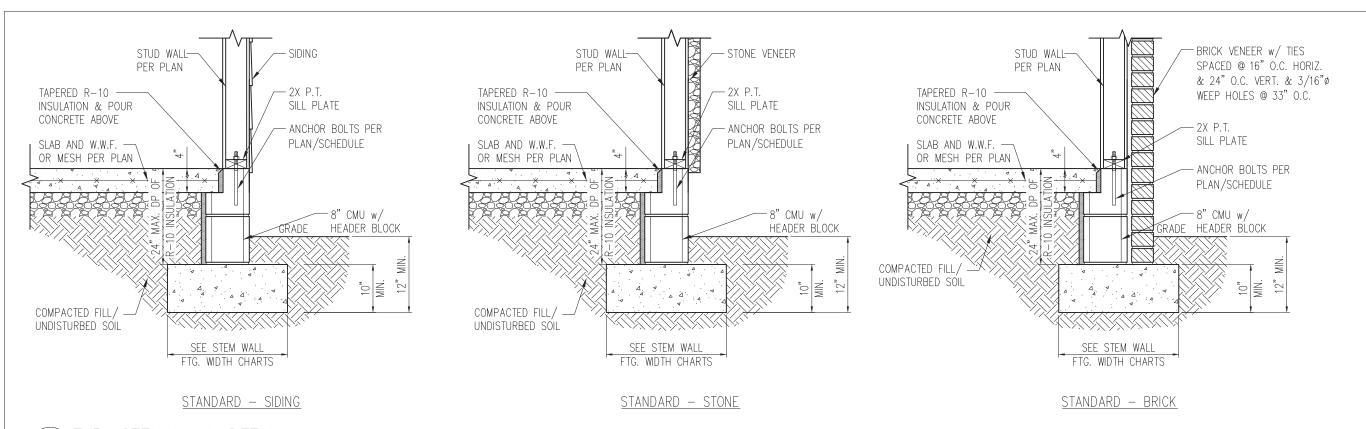
REFER TO COVER SHEET FOR A COMPLETE LIST OF REVISIONS

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THEY A. JOHN

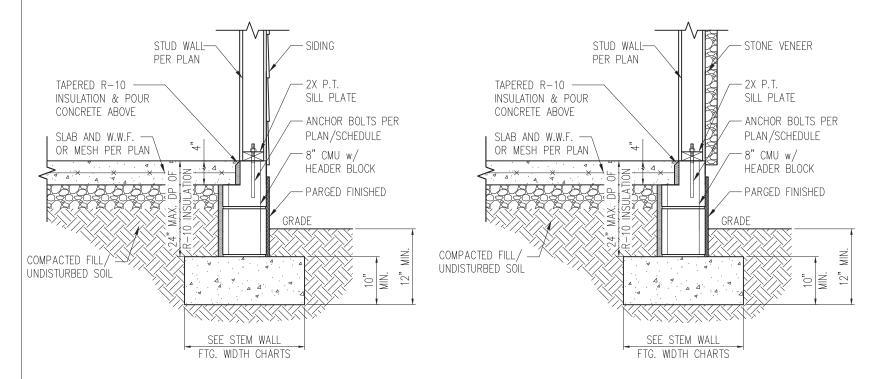
STRUCTURAL MEMBERS ONLY

D4m



STANDARD - STONE

TYP. STEM WALL DETAIL D1s 3/4" = 1'-0"



STANDARD - SIDING

1a STEM WALL DETAIL W/ PARGED FINISH

3/4" = 1'-0"

STEM WALL FOOTING WIDTH

01211 111122 1 0 0 11110 1112					
# OF STORIES	WIDTH BASED ON SOIL BEARING CAPACITY				
	1500 PSF 2000 PSF 2500 PSF				
1 STORY - STD.	16"	16"	16"		
1 STORY - BRICK VENEER	21"*	21"*	21"*		
2 STORY - STD.	20"	16"	16"		
2 STORY - BRICK VENEER	25"*	21"*	21"*		
*5" BRICK LEDGE HAS BEEN ADDED TO THE STEM WALL					
FOOTING WIDTH FOR BRICK SUPPORT					

WALL ANCHOR SCHEDULE

TYPE OF ANCHOR	MIN. CONC.	SPACING	INTERIOR	EXTERIOR
	EMBEDMENT	EMBEDMENT	WALL	WALL
1/2"ø A307 BOLTS w/	7"	6'-0"	YES	YES
STD. 90° BEND				
SST - MAS	4"	5'-0"	NO	YES
HILTI KWIK BOLT KBI 1/2-2-3/4	2-1/4"	6'-0"	YES	NO
1/2"ø HILTI THREADED ROD	7"	6'-0"	YES	YES
w/ HIT HY150 ADHESIVE				

NOTE: INSTALL ALL ANCHORS 12" MAX. FROM ALL BOTTOM PLATE ENDS AND JOINTS.

NOTES

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- 2. PROVIDE 6 MIL VAPOR BARRIER UNDER ALL SLABS-ON-GRADE.
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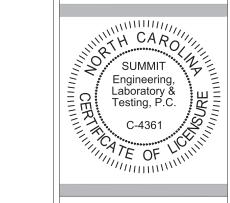


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FAX: 919.380.9993

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Standard Details
Stemwall Details
Smith Douglas Homes
110 Village Trail, Suite 21!
Woodstock, GA 30188

2

CURRENT DRAWING

DATE: 2/18/20

SCALE: NTS

PROJECT #: 3832

DRAWN BY: LBV

CHECKED BY: WAJ

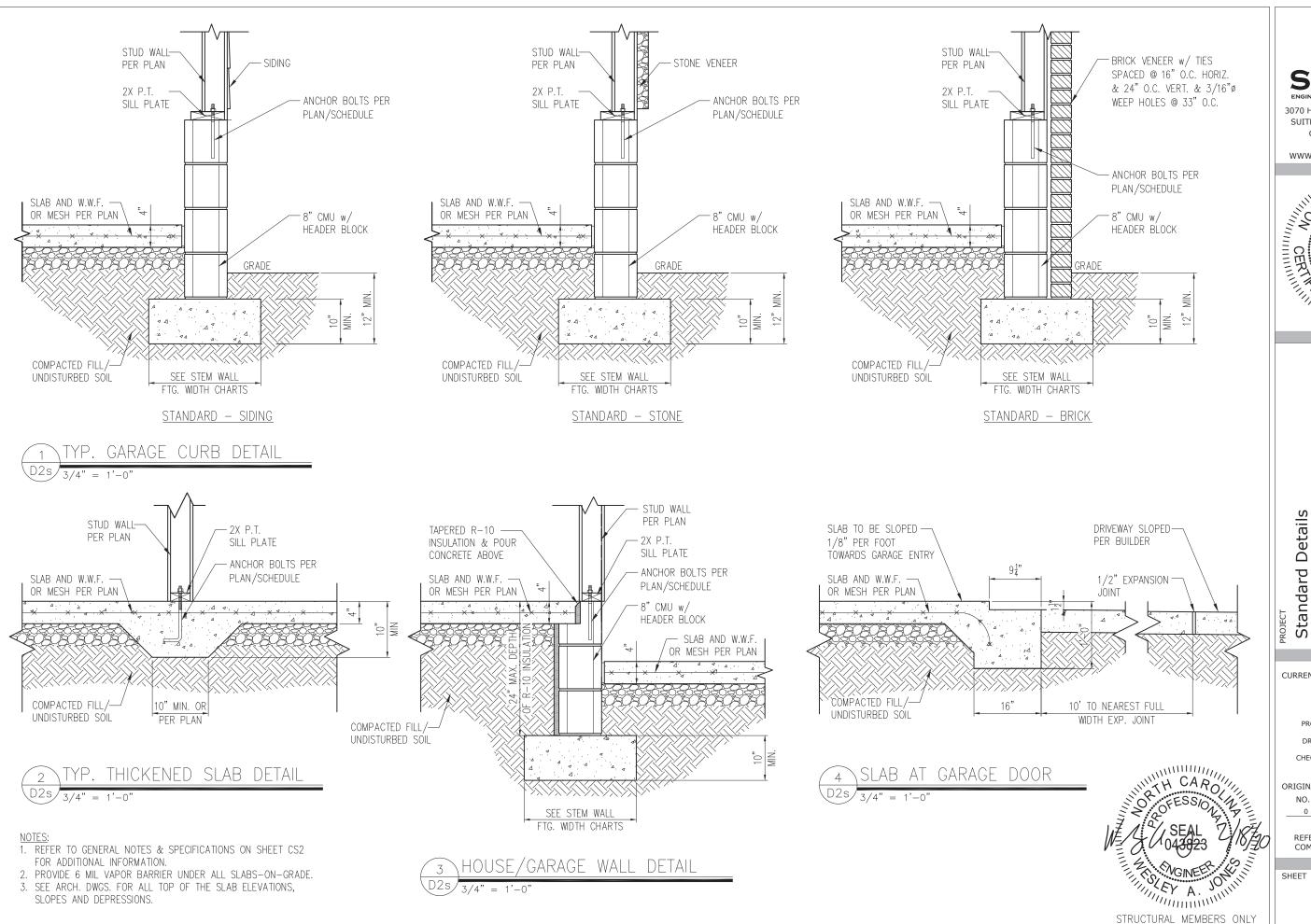
ORIGINAL DRAWING

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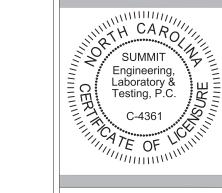
SHEET

D1s





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PRO1ECT # · 3832

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CHECKED BY: WAJ

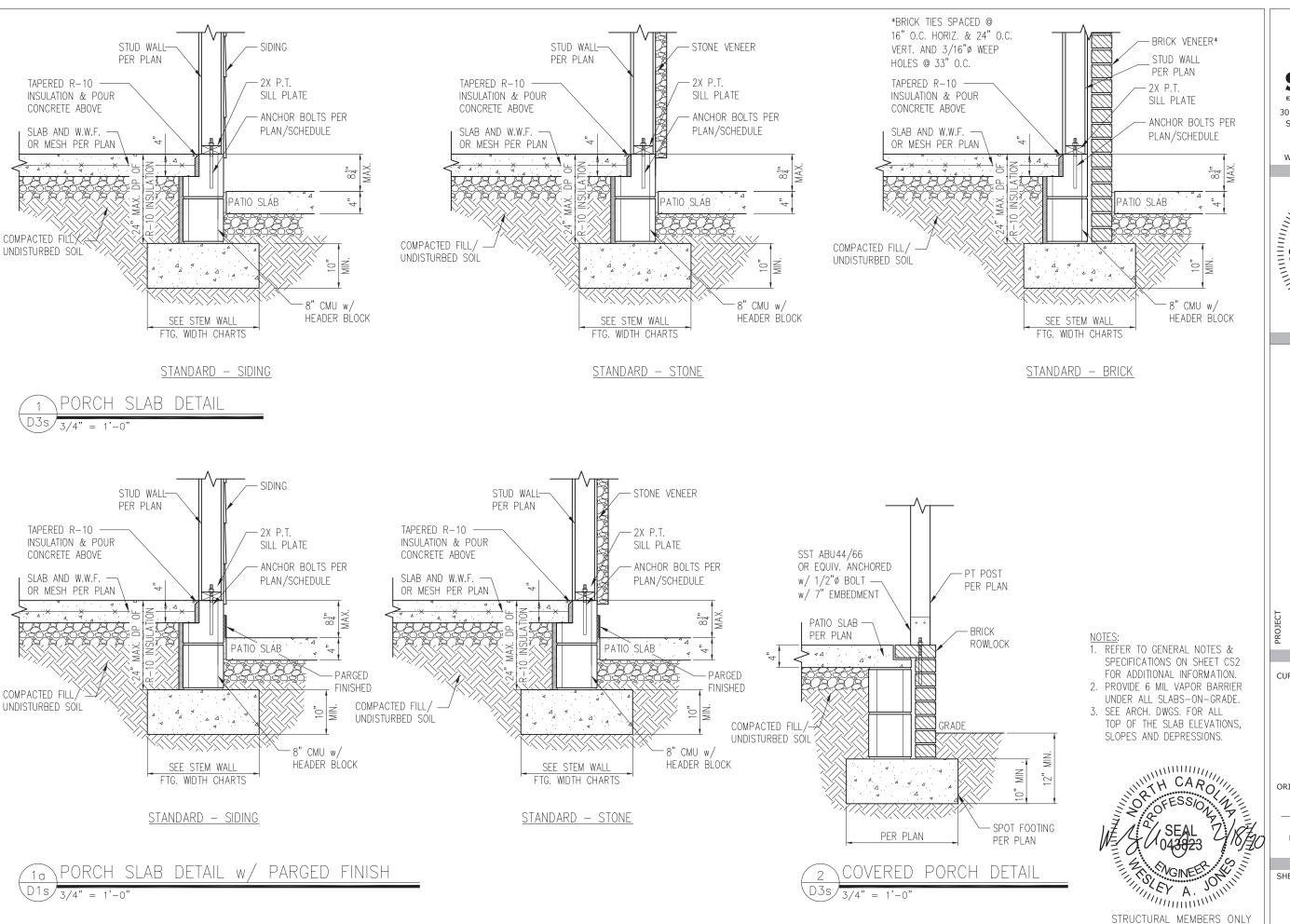
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DATE PROJECT # 1/7/16 3832

REFER TO COVER SHEET FOR A COMPLETE LIST OF REVISIONS

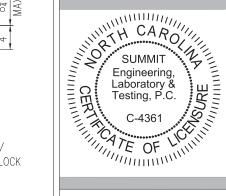
SHEET

D2s





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PRO1FCT #: 3832

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CHECKED BY: WAJ

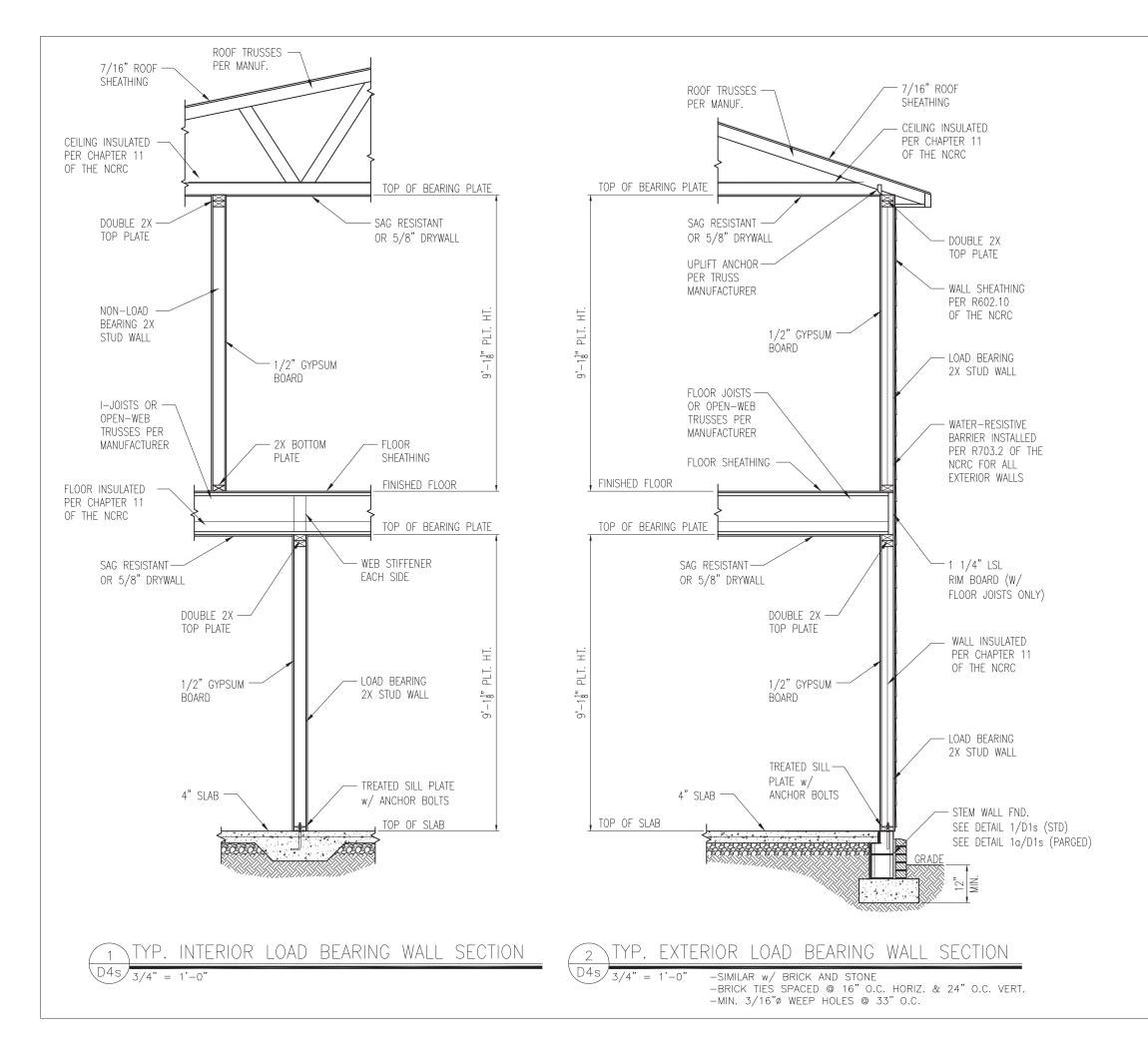
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DATE PROJECT # 1/7/16

REFER TO COVER SHEET FOR A COMPLETE LIST OF REVISIONS

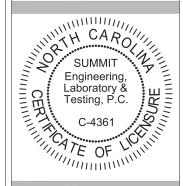
SHEET

D3s





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2

CURRENT DRAWING

Standard Details

DATE: 2/18/20

SCALE: NTS

PRO1FCT #: 3832

DRAWN BY: LBV

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ORIGINAL DRAWING

DATE PROJECT # 1/7/16 3832

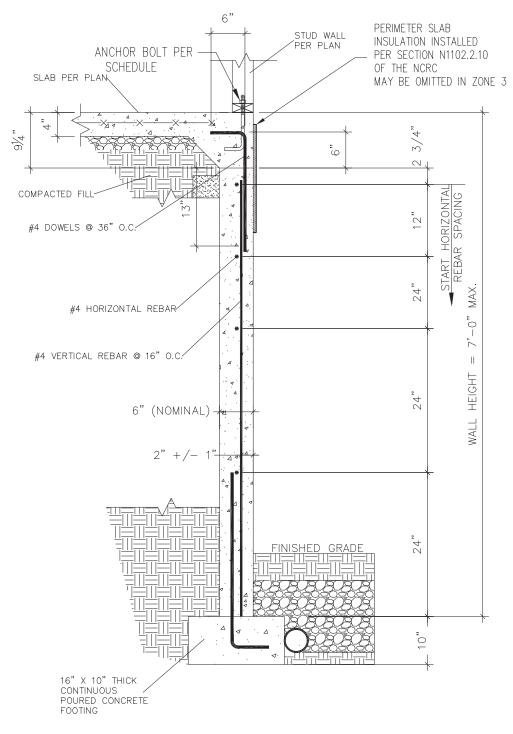
REFER TO COVER SHEET FOR A COMPLETE LIST OF REVISIONS

SHEET

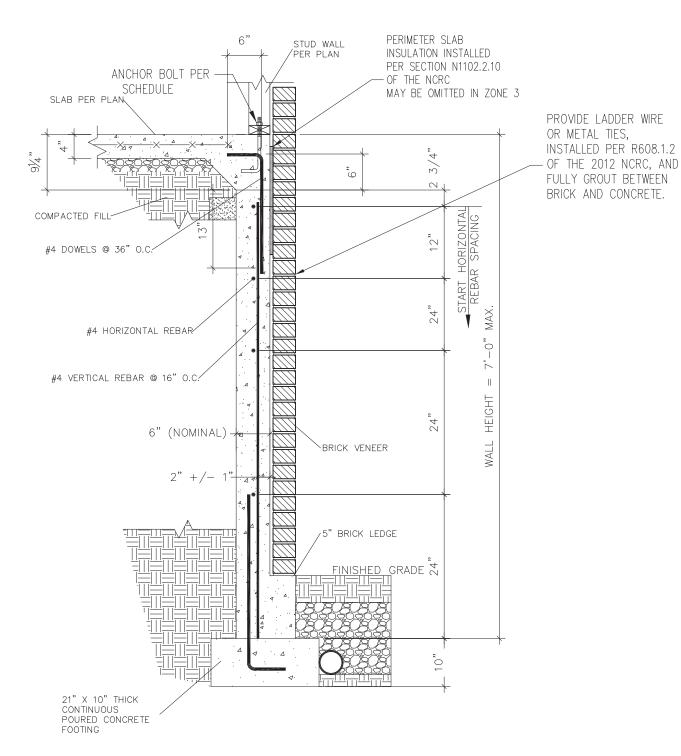
D4s

- 1. REFER TO GENERAL NOTES & SPECIFICATIONS ON SHEET CS2 FOR ADDITIONAL INFORMATION.
- 2. PROVIDE 6 MIL VAPOR BARRIER UNDER ALL SLABS-ON-GRADE.
- 3. SEE ARCH. DWGS. FOR ALL TOP OF THE SLAB ELEVATIONS, SLOPES AND DEPRESSIONS.









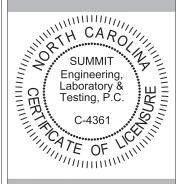
SUBWALL FOUNDATION W/ BRICK VENEER

3/4" = 1'-0"





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Stemwall Details

Smith Douglas Homes
110 Village Trail, Suite 2
Woodstock, GA 30188

2

21

CURRENT DRAWING

Standard Details

DATE: 2/18/20

SCALE: NTS

PROJECT #: 3832

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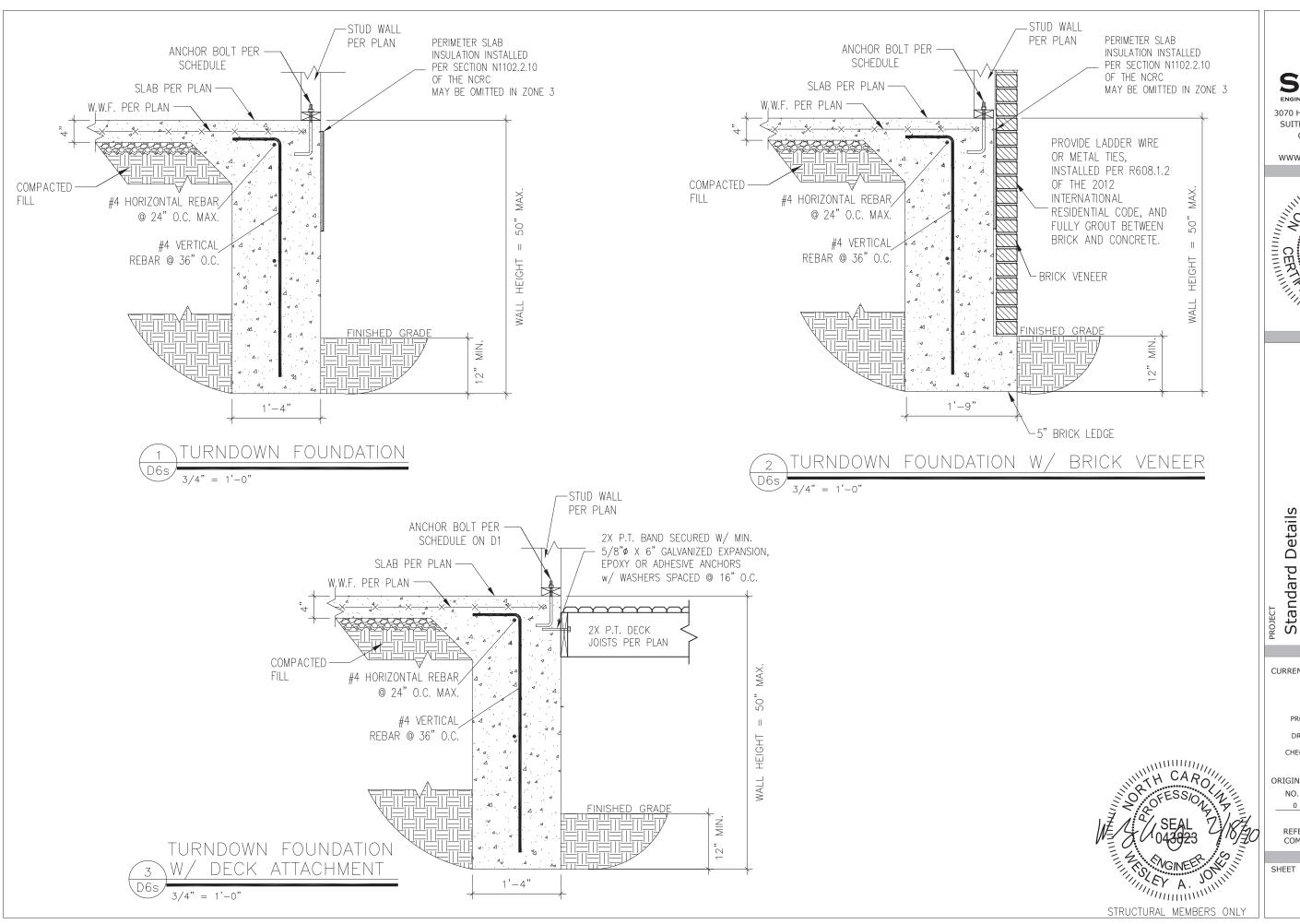
ORIGINAL DRAWING

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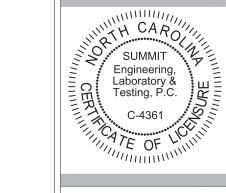
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D5s





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PRO1FCT #: 3832

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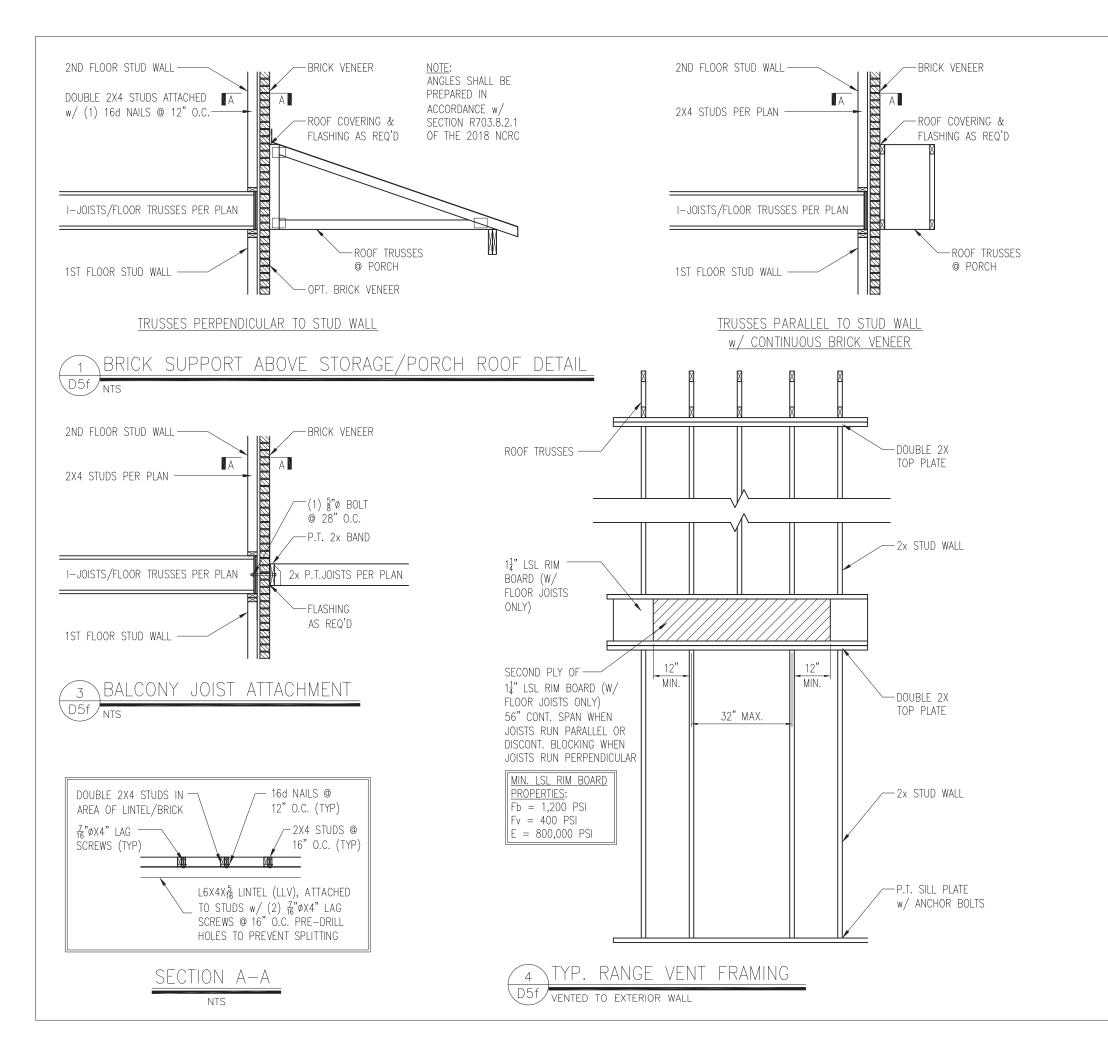
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DATE PROJECT # 1/7/16 3832

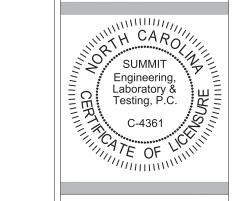
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D6s





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Standard Details
Framing Details
Smith Douglas Homes
110 Village Trail, Suite 21:
Woodstock, GA 30188

2

CURRENT DRAWING

DATE: 2/18/20

SCALE: NTS
PROJECT #: 3832

DRAWN BY: LBV

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ORIGINAL DRAWING

O. DATE PROJECT # 0 1/7/16 3832

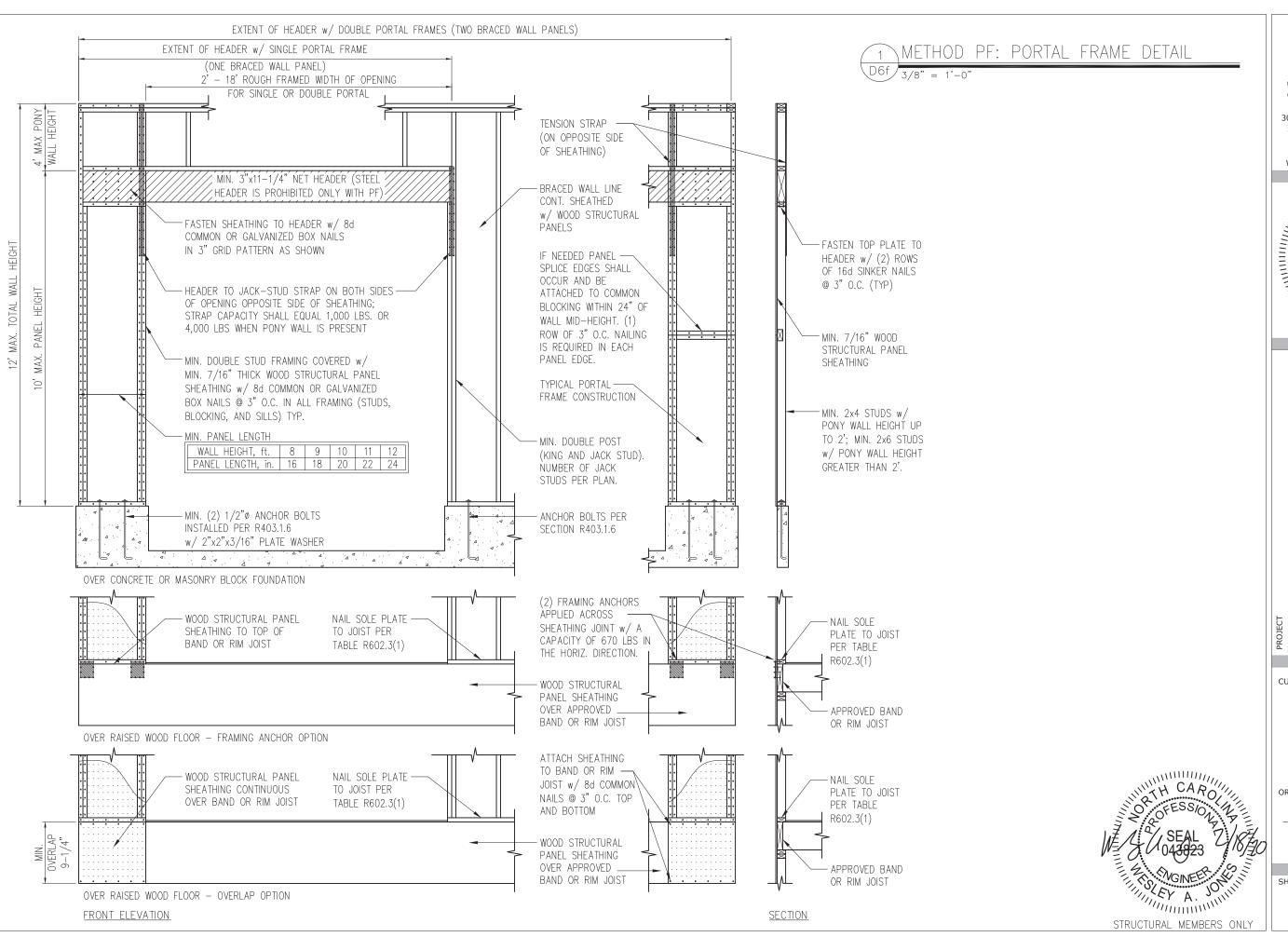
REFER TO COVER SHEET FOR A COMPLETE LIST OF REVISIONS

SHEET

THEY A. JOHN

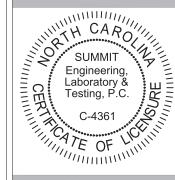
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D5f





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Standard Details Framing Details - Bracing CLIENT Smith Douglas Homes 110 Village Trail, Suite 215 Woodstock, GA 30188

CURRENT DRAWING

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SCALE: NTS

PROJECT #: 3832

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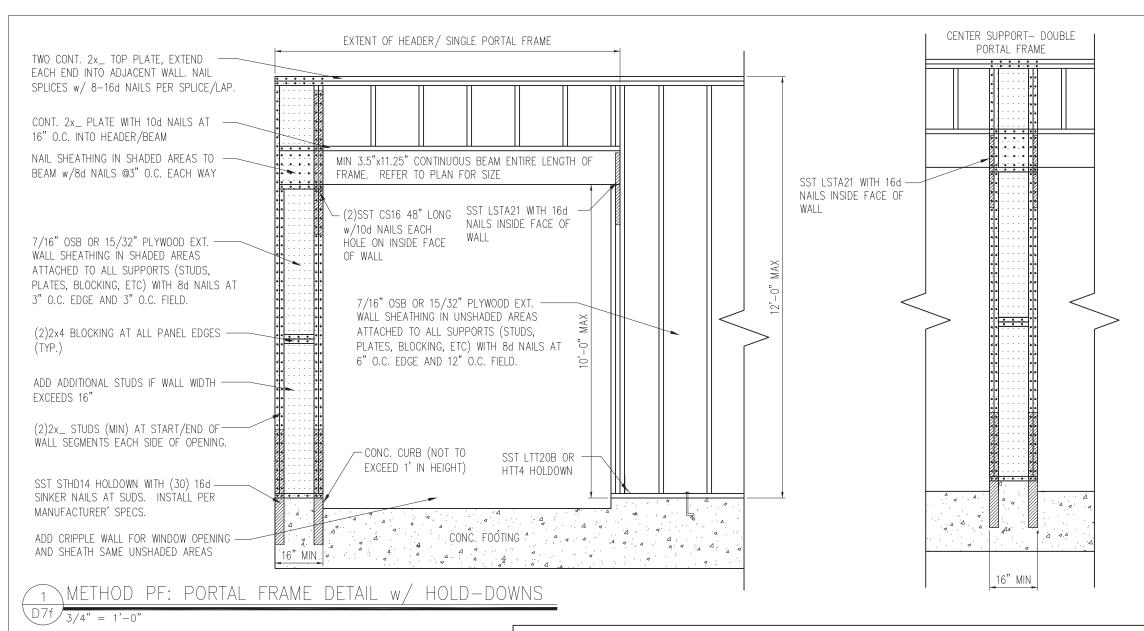
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SHEET

D6f



SPACING PER SCHEDULE MIN. 2... MIN.

ELEVATION VIEW

MULTI-PLY BEAM CONNECTION DETAIL

MINIMUM FASTE	NING	3¹/₂″ WIDE	51/4" WIDE 7" WIDE			51/4" WIDE		
REQUIREMENTS TOP- AND SIDE- MEMBERS	OIL							
FASTENER TYPE	LVLDEPTH	2-Ply 13/4"	3-Ply 13/4"	13/4" + 31/2" 4-Ply 13		2-Ply 13/4" + 31/2"	2-Ply 31/2"	
10d (0.128" x 3")	7¼"≤d<14"	3 rows @ 12" o.c.	3 rows @ 12" o.c. (ES)	3 rows @ 12" o.c.		3 rows @ 12" o.c. (ES)	-	
Nails	d≥14″	4 rows @ 12" o.c.	4 rows @ 12" o.c. (ES)	4 rows @ 12" o.c.		4 rows @ 12" o.c. (ES)	-	
16d (0.162" x 31/2")	7¼"≤d<14"	2 rows @ 12" o.c.	2 rows @ 12" o.c. (ES)	2 rows @ 12" o.c.	-	2 rows @ 12" o.c. (ES)	-	
Nails	d≥14″	3 rows @ 12" o.c.	3 rows @ 12" o.c. (ES)	3 rows @ 12" o.c.	-	3 rows @ 12" o.c. (ES)	-	
½" Through Bolts		2 rows @ 24" o.c.	2 row	s @ 24" o.c.	2 rows @ 24" o.c.			
SDS ¼" x 3½", WS35, 3¾" TrussLok	3.71///	2 rows @ 24" o.c.	2 rows @ 24" o.c. (ES)	2 rows @ 24" o.c.	•	2 rows @ 24" o.c. (ES)	-	
SDS 1/4" x 6", WS6	d≥7¼″	-	-		2 rows @ 24" o.c. (ES)			
5" TrussLok		-	2 rows @ 24" o.c.					
6¾" TrussLok			-		2 rows @ 24" o.c.			

- multiple-ply members must meet the minimum fastening and side-loading capacity requirements given on page 48.
- . Minimum fastening requirements for depths less than $7\frac{1}{4}$ require special consideration. Please contact your technical representative
- 3. Three general rules for staggering or offsetting for a certain fastener schedule:
- (1) if staggering or offsetting is not referenced, then none is required; (2) if staggering is referenced, then fasteners installed in adjacent rows on the front side are to be staggered up to one-half the o.c. spacing, but maintaining the fastener

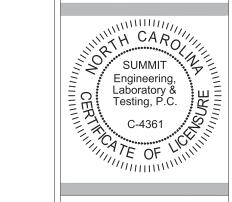
clearances above; and

(3) if "ES" is referenced, then the fastener schedule must be repeated on each side, with the fasteners on the back side offset up to one-half the o.c. spacing of the front side (whether or not it is staggered).



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Bracing 2 21 Smith Douglas Homes 110 Village Trail, Suite 2 Woodstock, GA 30188 Details Standard Details Framing I

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DATE: 2/18/20 SCALE: NTS

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DATE PROJECT # 1/7/16 3832

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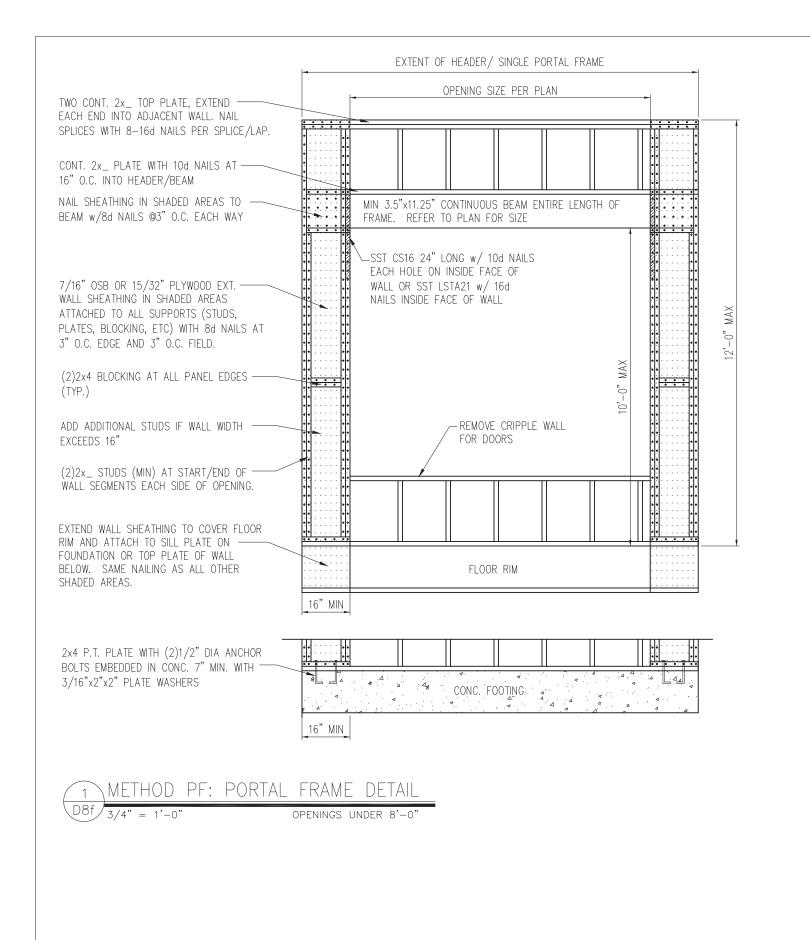
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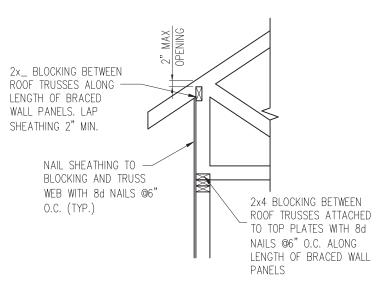
THEY A. JOHN

STRUCTURAL MEMBERS ONLY

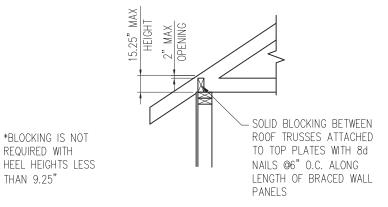
D7f







HEEL HEIGHT GREATER THAN 15.25"



HEEL HEIGHT LESS THAN 15.25" *

YP. WALL PANEL TO ROOF TRUSS CONNECTION

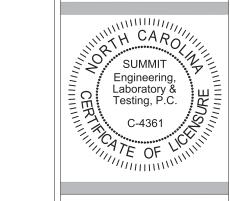
REQUIRED WITH

THAN 9.25"





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DRAWN BY: LBV

CHECKED BY: WAJ

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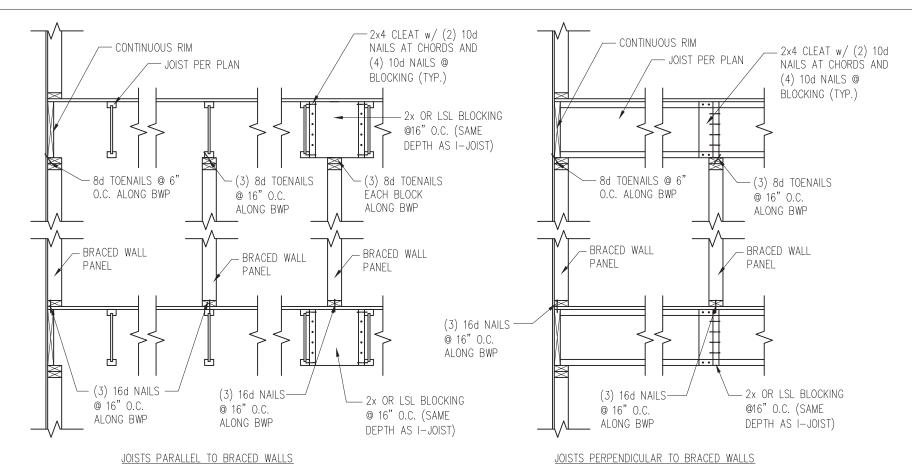
DATE PROJECT #

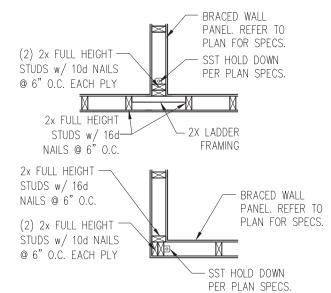
1/7/16 3832

REFER TO COVER SHEET FOR A COMPLETE LIST OF REVISIONS

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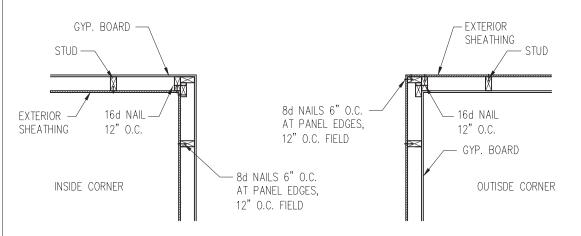
D8f

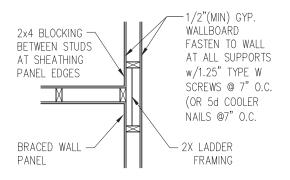




TYP. HOLD DOWN DETAIL
D9f 1" - 1' 0"

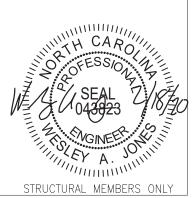
1 TYP. WALL PANEL TO FLOOR/CEILING CONNECTION D9f/1" = 1'-0"





TYP. EXTERIOR CORNER FRAMING

3 INTERIOR 3-STUD WALL INTERSECTION
D9f 1" = 1'-0"





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C-4361

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Standard Details Framing Details - Bracing Smith Douglas Homes 110 Village Trail, Suite 215 Woodstock, GA 30188

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SCALE: NTS

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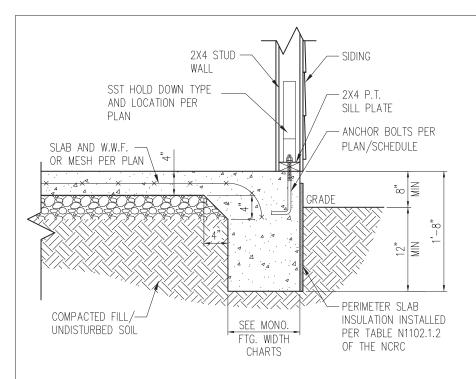
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NO. DATE PROJECT # 0 1/7/16 3832

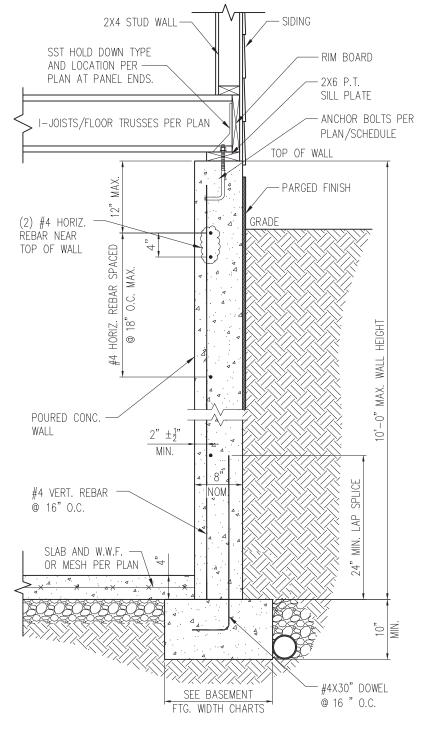
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D9f

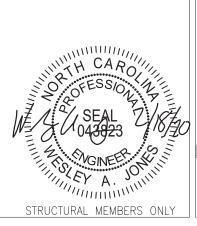


SLAB DETAIL w/ HOLD-DOWN



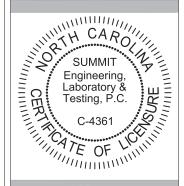
STANDARD - SIDING

BASEMENT FOUNDATION WALL DETAIL W/ HOLD-DOWN





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- Bracing 21 Smith Douglas Homes 110 Village Trail, Suite 2 Woodstock, GA 30188 Framing Details Standard Details

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CURRENT DRAWING

DATE: 2/18/20

SCALE: NTS

PRO1FCT #: 3832

DRAWN BY: LBV

CHECKED BY: WAJ

ORIGINAL DRAWING

DATE PROJECT # 1/7/16 3832

REFER TO COVER SHEET FOR A COMPLETE LIST OF REVISIONS

SHEET

D10f

