PIEDMONT

CEDAR POINTE LOT 41

PLAN ID: 040123



110 VILLAGE TRAIL SUITE 215 WOODSTOCK, GA. 30188

DRAWING INDEX A0.0 **COVER SHEET** A1.1 FRONT ELEVATIONS SIDE & REAR ELEVATIONS A2.1 SLAB FOUNDATIONS A3.1 A5.1 FIRST FLOOR PLANS & DETAILS A6.1 **ROOF PLANS ELECTRICAL PLANS** A7.2 TRIM LOCATION LAYOUTS A8.1

AREA TABULATION				
FIRST FLOOR	1501			
TOTAL	1501			
GARAGE	401			
FRONT PORCH	70			
(COVERED)	70			
REAR PATIO	120			

GOVERNMENTAL CODES & STANDARDS

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

BUILDING CODE ANALYSIS / DESIGN CRITERIA

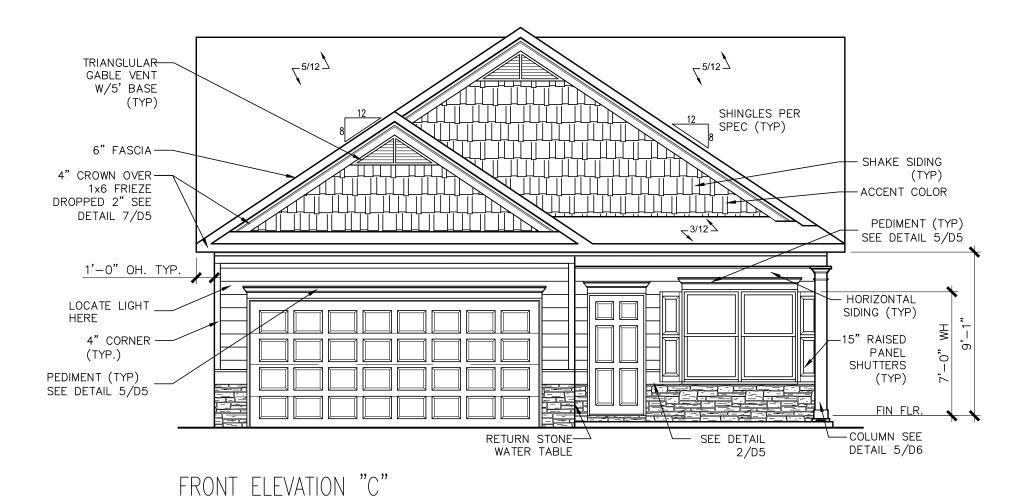
HOME TO BE BUILT TO MEET OR EXCEED ALL LOCAL CODES AND DESIGN CRITERIA

PLAN REVISIONS			
DATE	BY	REVISION	PAGE #
10/23/2019	AW	Prototype walk changes - see revision sheet	A2.1-A2.3, A3.1-A5.1.2, A7.2-A8.1
4/1/2023	AW	PCR #5158 relocated PDS to Garage	A5.1, A6.1-A6.1.2, A7.2
11/1/2023	AW	PCR#5604 Shifted rear door/window/patio/covered patio 12" towards Owner's Suite to avoid roof conflict w/covered patio	ALL

ALL NON-MASONRY RETURNS TO BE HORIZONTAL SIDING

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

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



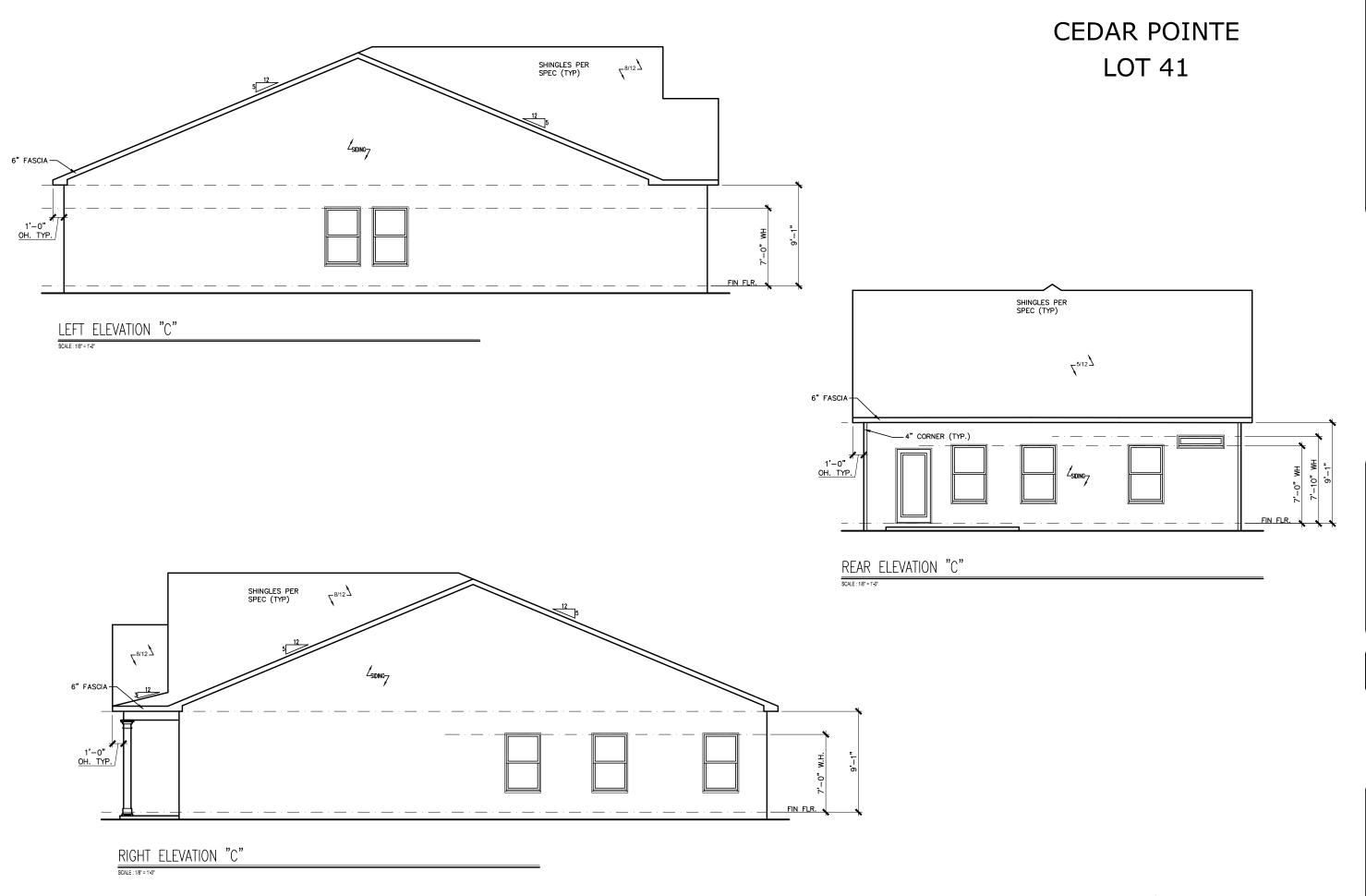
SMITH DOUGLAS HOMES

ELEVATIONS FRONT ELEVATION PIEDMONT

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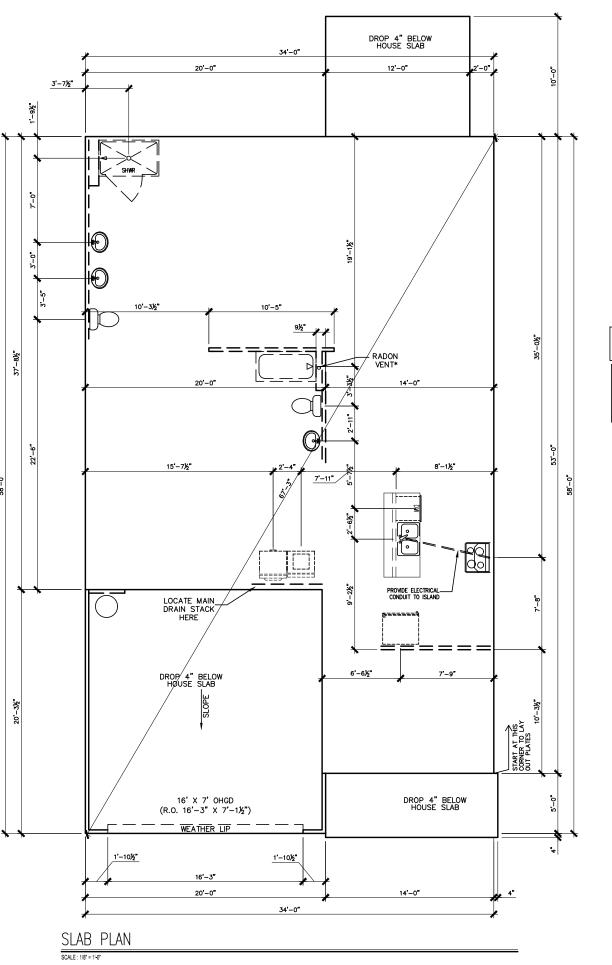




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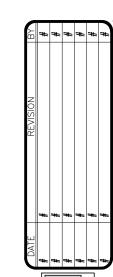
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*RADON VENT PROVIDED PER LOCAL CODE

REFER TO DETAIL 3/D1 FOR BRICK LEDGE DETAIL WHEN BRICK VENEER IS CHOOSEN



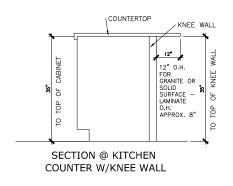


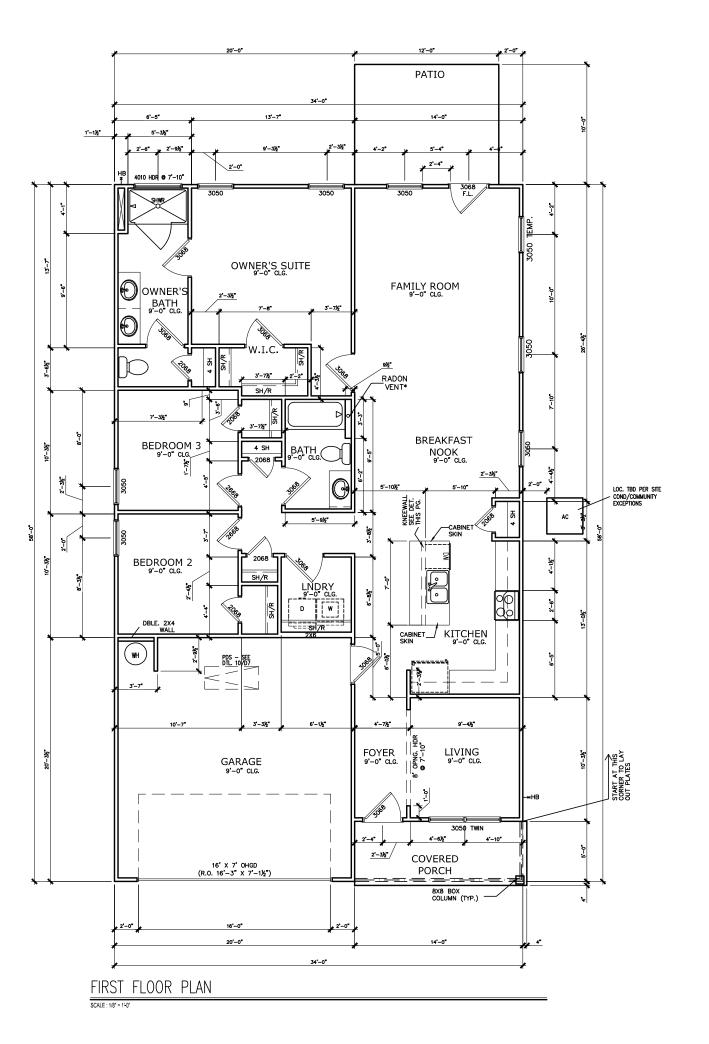
FOUNDATION PLAN SLAB PLAN PIEDMONT

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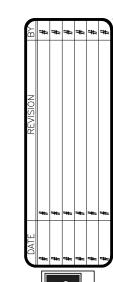






REFER TO MANUFACTURER'S SPECS. FOR DRAIN LOCATIONS ON DETAIL SHEETS D12, D12.1, & D12.2

*RADON VENT PROVIDED PER LOCAL CODE



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FLOOR

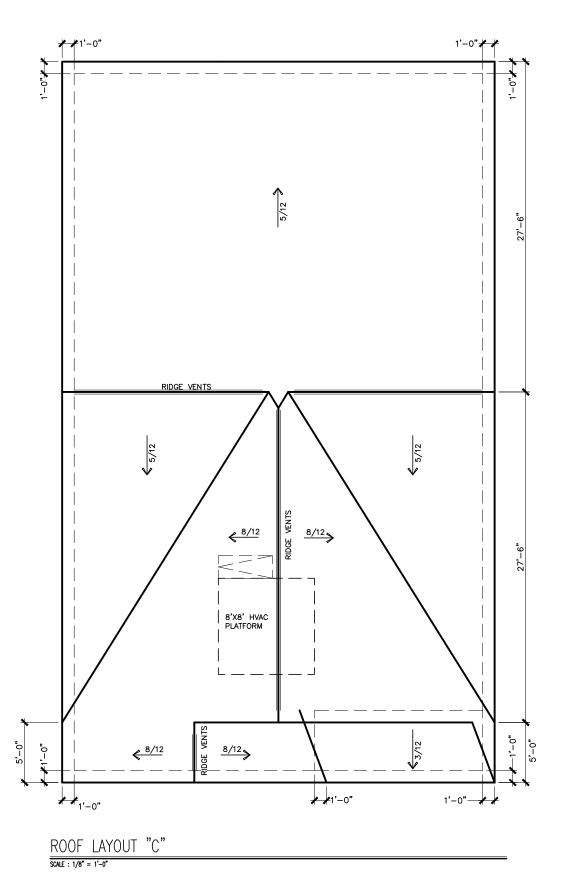
FIRST

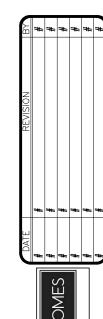
FLOOR PLAN

PIEDMONT

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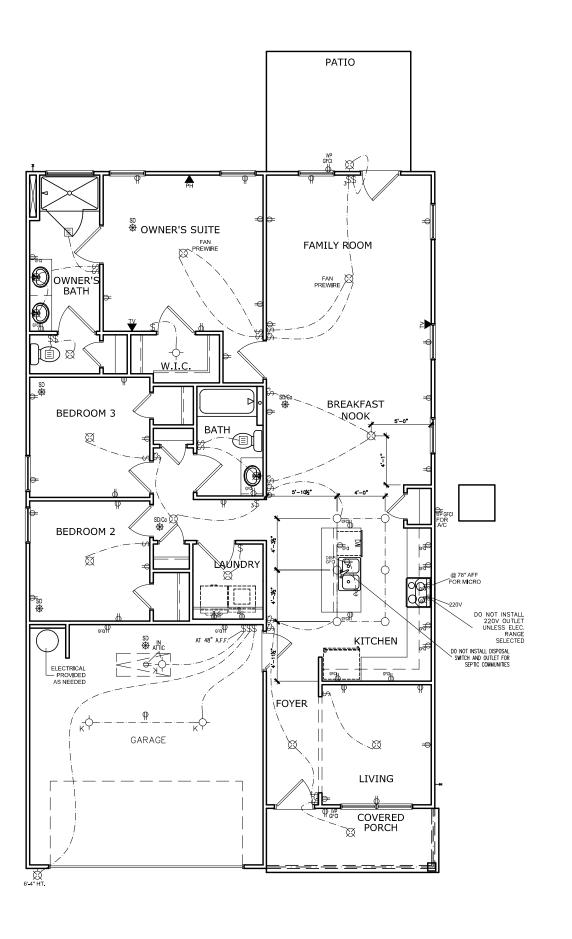


ROOF PLAN ROOF PLAN PIEDMONT

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ELE	ELECTRICAL LEGEND					
\$	SWITCH	TV	TV			
\$3	3 WAY SWITCH	φ	120V RECEPTACLE			
\$4	4 WAY SWITCH	•	120V SWITCHED RECEPTACLE			
Ø	CEILING FIXTURE	•	220V RECEPTACLE			
- ∳ _K	KEYLESS	P _{GFCI}	GFCI OUTLET			
+XX	WALL MOUNT FIXTURE	PAFCI	ARCH FAULT CIRCUIT			
0	CEILING FIXTURE	T _{GL}	GAS LINE			
•	FLEX CONDUIT	T _{wL}	WATER LINE			
СН	CHIMES	¥	HOSE BIBB			
PH	PH TELEPHONE		FLOOD LIGHT			
SD/Cd	SMOKE DETECTOR & CARBON MONOXIDE		1x4 LUMINOUS FIXTURE			
SO	SECURITY OUTLET		2511112 5111			
	GARAGE DOOR OPENER		CEILING FAN			
	EXHAUST FAN		ELECTRICAL WIRING			
	FAN/LIGHT		CEILING FIXTURE			
ELEC.	TRICAL PLANS TO FOLLOW	ALL LOCAL	CODES			
APPRO	APPROX. FIXTURE HGTS (MEASURED FROM BOTTOM OF FIXTURE)					
BREA	KFAST/DINING ROOM	63" ABOVE FINISHED FLOOR				
KITCH	HEN PENDANT LIGHTS	33" ABOVE COUNTER TOP				
TWO	STORY FOYER FIXTURE	96" ABOVE FINISHED FLOOR				
CEILII	NG FAN	96" ABOVE FINISHED FLOOR				

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

SMITH DOUGLAS HOMES ELECTRICAL PLAN FIRST FLOOR

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FLOOR

PIEDMONT



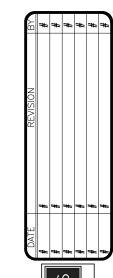
PATIO OWNER'S SUITE OWNER'S BATH FAMILY ROOM [∎]w.ɪ.c.[∾]⊏ BREAKFAST NOOK BEDROOM 3 BEDROOM 2 LŇDRY KITCHEN FOYER LIVING GARAGE COVERED PORCH

FOYER TRIM - CHAIR/SHADOW ----

TRIM LAYOUT FIRST FLOOR PLAN

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

CEDAR POINTE LOT 41

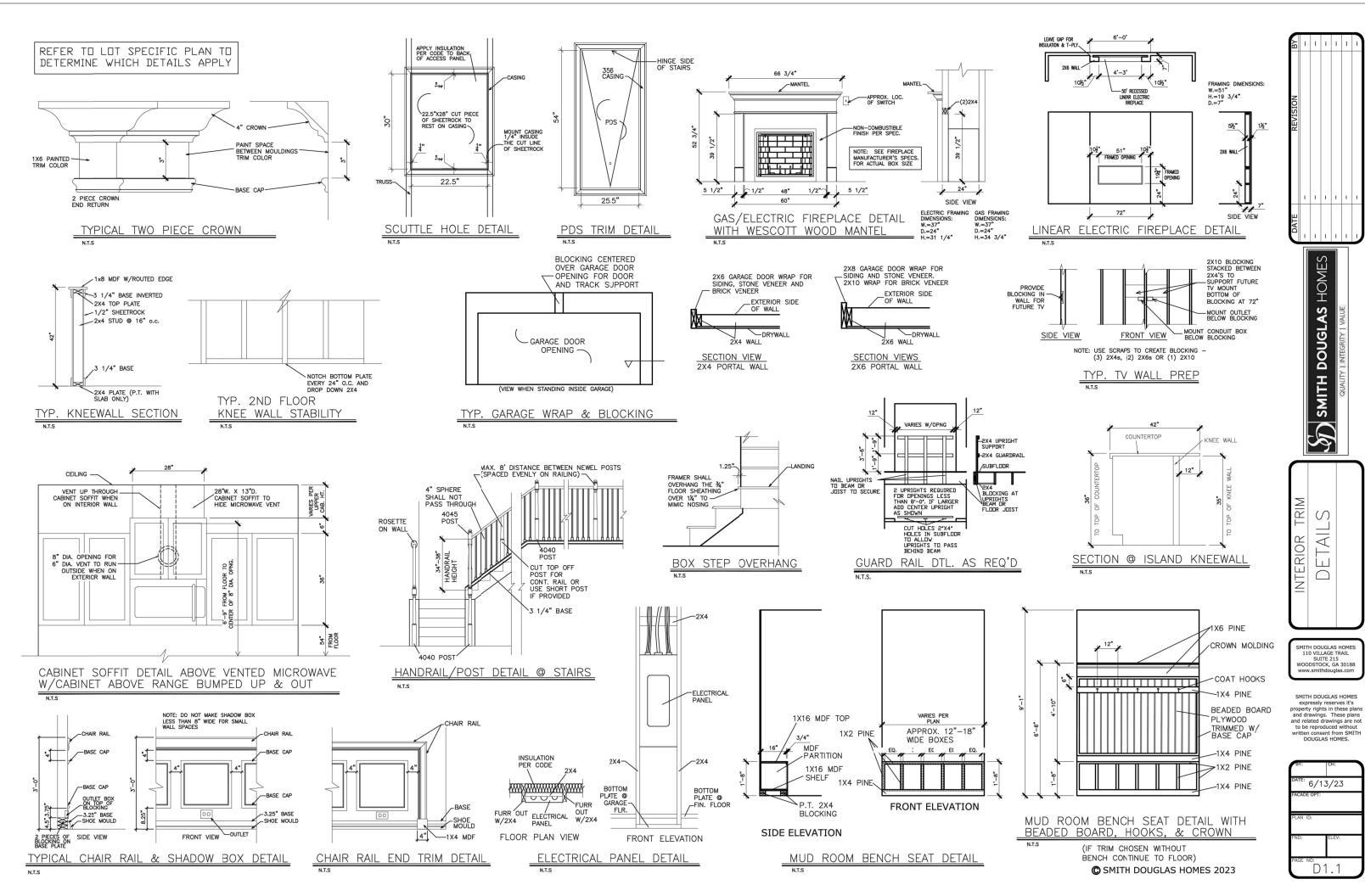




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SUITE 115
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BY: SL	CH: AW
DATE: 5/8/	2024
FACADE OPT:	
PLAN ID:	
fnd: ALL	C C
PAGE NO:	3.1



DESIGN SPECIFICATIONS:

Construction Type: Commerical ☐ Residential ☒

Applicable Building Codes:

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

Design Loads:

igri L	oads:		
~ 1.	Roof	Live Loads	
	1.1.	Conventional 2x	20 PSF
	1.2.	Truss	20 PSF
		1.2.1. Attic Truss	60 PSF
2.	Roof	Dead Loads	
	2.1.	Conventional 2x	10 PSF
	2.2.	Truss	20 PSF
3.	Snow		15 PSF
	3.1.	Importance Factor	1.0
4.		Live Loads	
	4.1.	Typ. Dwelling	40 PSF
	4.2.	Sleeping Areas	30 PSF
		Decks	
		Passenger Garage	
5.		Dead Loads	
	5.1.	Conventional 2x	10 PSF
		I-Joist	
		Floor Truss	
6.		te Design Wind Speed (3 sec. gust)	
	6.1.	Exposure	В
		Importance Factor	
		Wind Base Shear	
		6.3.l. Vx =	

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

19.2,-25.2

19.9,-26.1 20.4,-26.9

8. Seismic

ZONE 5

8.I.	Site Class	D
8.2.	Design Category	С
8.3.	Importance Factor	1.0
8.4.	Seismic Use Group	1

8.5. Spectral Response Acceleration

8.5.1. Sms = %q 8.5.2. Sml = %q

18.2,-24.0

8.6. Seismic Base Shear

6.3.2.V4 = 7. Component and Cladding (in PSF)

8.6.1. Vx =

8.6.2.Vu =

8.7. Basic Structural System (check one)

 Bearing Wall ☐ Buildina Frame ☐ Moment Frame

☐ Dual w/ Special Moment Frame

□ Dual w/ Intermediate R/C or Special Steel □ Inverted Pendulum

8.8. Arch/Mech Components Anchored 8.9. Lateral Design Control: Seismic

9. Assumed Soil Bearing Capacity

Wind 🖂



UES PROFESSIONAL SOLUTIONS 29, INC

FORMERLY SUMMIT ENGINEERING, LABORATORY, & **TESTING INC.**

STRUCTURAL PLANS PREPARED FOR:

PIEDMONT - LH

PROJECT ADDRESS: TBD

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 engineering of record (SER). Should any discrepancies become apparent, the contractor shall notify UES Professional Solutions, Inc. 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	ŤJ	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	WWF	WELDED WIRE FABRIC

Roof truss and floor joist layouts, and their corresponding loading details, were not provided to UES Professional Solutions, Inc. (UES) 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 UES immediately.

SHEET LIST:

Sheet No.	Description
CSI	Cover Sheet, Specifications, Revisions
CS2	Specifications Continued
SI.Øm	Monolithic Slab Foundation
S1.Øs	Stem Wall Foundation
51.0c	Crawl Space Foundation
S1.Ø.4b	4-Sides Brick 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.Ø	Basement Bracing Plan
57.Ø	First Floor Bracing Plan
58.Ø	Second Floor Bracing Plan

REVISION LIST:

Revision No.	Date	Description
1	10/23/20	Updated porch header callout
2	11/17/20	Updated beam sizing on the optional large covered patio 4 changed posts to 4x4
3	Ø7/Ø7/21	Added LIB Bracing Options
4	11/06/23	Moved rear deck per client email
5	<i>Ø</i> 5/ <i>Ø</i> 2/24	Updated porch header callout





STRUCTURAL MEMBERS ONLY

10121 Pineville Distribution St Pineville, NC 28134 Office: 704.504.1717 Fax: 704.504.1125 www.teamues.com



Raleigh Douglas Homes . Reliance Ave. CLIENT: Smith I 2520 F

DRAIIING

DATE: 05/02/2024

Coversheet

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

PROJECT *: A2011.00403.000

DRAWN BY: EMB

CHECKED BY: GUIS

ORIGINAL INFORMATION

PROJECT * 3832,379

10/19/20

REFER TO COVER SHEET FOR A COMPLETE LIST OF REVISIONS

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 UES Professional Solutions, Inc. (UES) or the SER. For the purposes of these construction documents the SER and UES 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
- 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
- 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 UES 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 UES.
- 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 UES 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 local building codes.
- 9. All structural assemblies are to meet or exceed to requirements of the current local building code.

- 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.
- 2. 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.
- 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 dru densitu
- 5. 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.
- 6. No concrete shall be placed against any subgrade containing water, ice, frost, or loose material.

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 the manual of Steel Construction "Load Resistance Factor Design" latest editions.
- 2. Structural steel shall receive one coat of shop applied rust-inhibitive paint.
- 3. All steel shall have a minimum yield stress (F₀) of 36 ksi unless otherwise noted.
- Welding shall conform to the latest edition of the American Welding Society's Structural Welding Code AWS D.I. Electrodes for shop and field welding shall be class ETOXX. All welding shall be performed by a certified welder per the above standards.

- 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.
- Concrete slabs-on-grade shall be constructed in accordance with ACI 302.IR-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.

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)
- 4. Fibermesh shall comply with ASTM CIII6, 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.
- Lap reinforcement as required, a minimum of 40 bar diameters for tension or compression unless otherwise noted. Splices in masonru 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 Southern-Yellow-Pine (SYP) #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 psi
- 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
- Nails shall be common wire nails unless otherwise noted.
- Lag screws shall conform to ANSI/ASME standard B182.1-1981. 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.
- Exterior and load bearing stud walls are to be 2x4 SYP #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 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 properly blocked at all floor levels to ensure proper load transfer.
- 9. Multi-ply beams shall have each ply attached with (3) 10d nails a 24" O.C
- 10. Four and five ply beams shall be bolted together with (2) rows of 1/2" diameter through bolts staggered @ 24" O.C. 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.
- Anu chards 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.

EXTERIOR WOOD FRAMED DECKS:

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

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
- 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 I 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 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.
- All structurally required fiberboard sheathing shall bear the mark of the AFA.
- 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
- Sheathing shall have a 1/8" gap at panel ends and edges are recommended in accordance with the AFA.

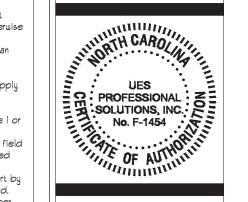
CEDAR POINTE Lot 41



STRUCTURAL MEMBERS ONLY



10121 Pineville Distribution St Pineville, NC 28134 Office: 704.504.1717 Fax: 704.504.1125 www.teamues.com



Raleigh 80 e Ave. Ť Ž Douglas , Reliance , CLIENT: Smith 2520

DRAIIING

DATE: 05/02/2014

Piedmont - LH Coversheet

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

PROJECT *: A20117.00403.000

DRAWN BY: EMB

CHECKED BY: GILB

ORIGINAL INFORMATION

PROJECT * 3832,379

DATE 10/19/20 REFER TO COVER SHEET FOR A

COMPLETE LIST OF REVISIONS

SHEET

CS₂

FOUNDATION NOTES:

- FOUNDATIONS TO BE CONSTRUCTED IN ACCORDANCE W CHAPTER 4 OF THE 2018 NORTH CAROLINA RESIDENTIAL BUILDING CODE W ALL LOCAL AMENDMENTS, STRUCTURAL CONCRETE TO BE F. 2000 PGI, PREPARED AND PLACED N ACCORDANCE WITH ACI STANDARD 318.

 FOOTINGS TO BE FLACED ON INDISTRUREDE DEARTH, BEARING, A NINMUM OF 12" BELOU ADJACENT RINGHED GRADE, OR AS OTHERWISE DIRECTED BY THE CODE DEPORTED ACTIVITY CHIEF OF THE CODE DEPORTED ACTIVITY CHIEF
- BELOW ADJACENT FINISHED GRADE, OR AS OTHERWISE DIRECTED BY THE CODE
 ENFORCEMENT OFFICIAL.

 FOOTNUS SIZES BASED ON A PRESSIMPTIVE SOIL BEARING CAPACITY OF 2000
 FOR CONTRACTOR IS SOLELY RESPONSIBLE FOR VERIFYING THE SUITABILITY OF
 THE STE SOIL CANDITIONS AT THE TIME OF CONSTRUCTION.
 FOOTNUS AND PIERS SHALL BE CENTIFEED UNDER THEIR RESPECTIVE ELEMENTS.
 FROVIDE 2" MINIMUM FOOTNUS PROJECTION FROM THE FACE OF MASONITY.
 MAXIMUM DEFINIT OF WIRAL MAKED FILL AGAINST MASONITY WILLS TO BE AS
 SPECIFIED IN SECTION R4041 OF THE 20/8 NORTH CAROLINA RESIDENTIAL
 BUILDING CODE.

- 6. PRACHION DEPTIN OF UNBALANCED THE ASSANS INSCRIPT INSCRIPT.

 6. PRACHION CODE.

 7. PILASTIES TO BE BONDED TO PERMITTER FOUNDATION WALL.

 8. PROVIDE FOUNDATION WATERPROCPINS, AND DEARN WITH POSITIVE SLOPE TO OUTLET AS PEGUINED BY SITE CONDITION.

 9. PROVIDED PERMITTER NISULATION FOR ALL POUNDATIONS PER 2018 NORTH CAROLINA RESIDENTIAL BUILDING CODE.

 10. CORREL FOUNDATION WALL AS REQUINED TO ACCOMMODATE BRICK YENEERS.

 11. CRAWL PRACE TO BE GRADED LEVEL, AND CLEARED OF ALL DEBRIS.

 12. FOUNDATION ANCHORAGE SHALL BE CONSTRUCTED PER THE 2018 NORTH CAROLINA RESIDENTIAL CODE SECTION RADS (LIN MONTH OF MACE). HINHING IN 10 MASONET OR CONCRETE MINHING IN ANCHOR BOLD THE PER PLATE SECTION AND (LI LOCATED MOT MORE THAN 10" FROM THE CORNER ANCHOR BOLTS SHALL BE LOCATED IN THE CORNER THIND OF THE PLATE.

- 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
- 14. ALL PIERS TO BE 16"X16" MASONRY AND ALL PILASTERS TO BE 8"X16" MASONRY
- ALL PIERO TO BE IN INCOMENTAL PILADERS IN THE PARTY AND THE PROPERTY IN THE PARTY I CONSTRUCTION, UES PROFESSIONAL SOLUTIONS, INC. MUST BE PROVIDED THE
- COMPACTION, USD PROPESSIONAL SOCIOUS, INC. THAT BE PROVIDED THE OPPORTUNITY TO REVIEW THE ROOTING DESIGN PROF TO CONCRETE PLACEMENT. ALL FOOTINGS 4 SLABS ARE TO BEAR ON UNDISTURBED SOIL OR 95% COMPACTED FILL, VERIFIED BY ENGINEER OR CODE OFFICIAL.

REFER TO BRACED WALL PLAN FOR PANEL LOCATIONS AND ANY REQUIRED HOLD-DOWNS. ADDITIONAL INFORMATION PER SECTION REØ2.08 AND FIGURE REØ2.01 OF THE 2015 IRC.

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

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

NOTE: FOUNDATION ANCHORAGE HAS BEEN DESIGNED TO RESIST THE CONTINUOUS WIND UPLIFT LOAD PATH IN ACCORDANCE WITH METHOD 3 OF SECTION R60235 OF THE 2018 NCRC.

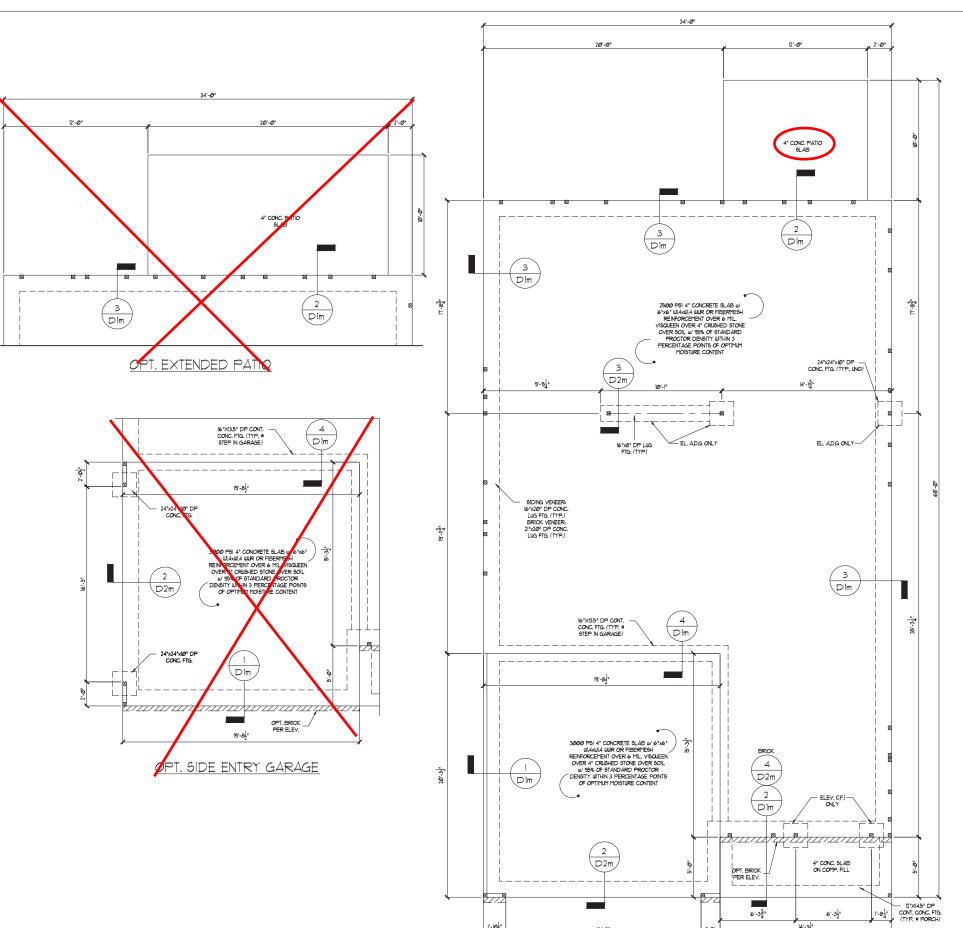
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STRUCTURAL MEMBERS ONLY

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STRUCTURAL ANALYSIS BASED ON 2018 NCRC.

MONOLITHIC SLAB FOUNDATION





10121 Pineville Distribution St Pineville, NC 28134 Fax: 704.504.1125 www.teamues.com



<u>|e</u>igh 0<u>7</u> Fnd s Homes e Ave. 39 Slab Douglas + Reliance , , NC 27539 土 Monolithic Piedmont CLIENT: Smith 1 2520 1

DRAWING

DATE: Ø5/Ø2/2Ø24

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

PROJECT *: A20117.00403.000

DRAWN BY: EMB

CHECKED BY: GWS

ORIGINAL INFORMATION

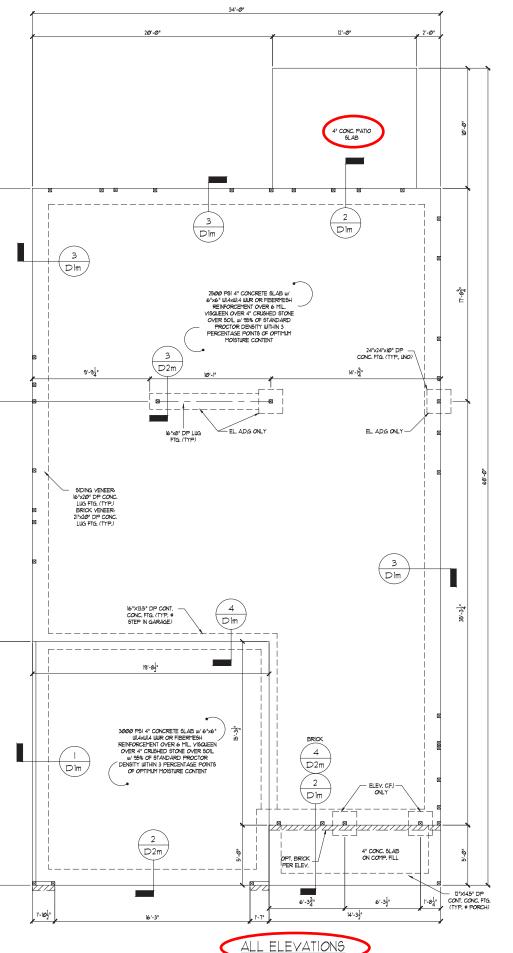
PROJECT *

DATE 10/19/20 3832,379

REFER TO COVER SHEET FOR A COMPLETE LIST OF REVISIONS

SHEET

S1.0m



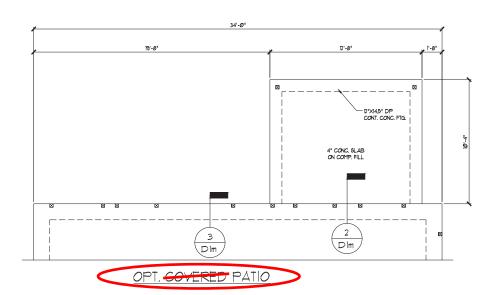
STRUCTURAL MEMBERS ONLY

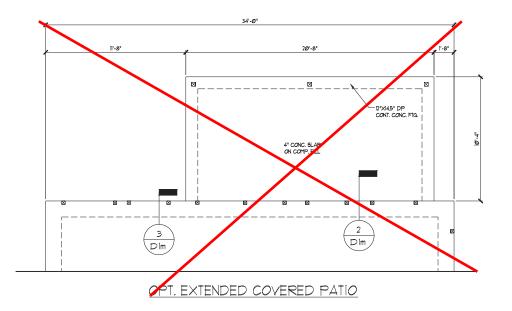
CEDAR

POINTE

Lot 41

SEE SHEET SI.OM FOR NOTES AND MORE INFORMATION





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STRUCTURAL ANALYSIS BASED ON 2018 NCRC.

MONOLITHIC SLAB FOUNDATION





STRUCTURAL MEMBERS ONLY



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Raleigh client: Smith Douglas Homes -2520 Reliance Ave. Apex, NC 21539

DRAWING

DATE: Ø5/Ø2/2Ø24

Piedmont - LH Monolithic Slab F

Piedmont

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

Fnd.

PROJECT *: A2@IIT.@@4@3.@@@

DRAWN BY: EMB

CHECKED BY: GWS

ORIGINAL INFORMATION

PROJECT * 3832.379

10/19/20

DATE

REFER TO COVER SHEET FOR A COMPLETE LIST OF REVISIONS

S1.1m

GENERAL STRUCTURAL NOTES:

- CONSTRUCTION SHALL CONFORM TO 2010 NORTH CAROLINA RESIDENTIAL BUILDING CODE WITH ALL LOCAL AMBRIDMENTS.
 CONTRACTOR SHALL VERRY ALL DIMENSIONS CONTRACTOR SHALL COMPLY WITH THE CONTENTS OF THE DRAWNS FOR THIS SPECIFIC PROJECT. ENSINEER IS NOT RESPONSIBLE FOR ANY DEVIATIONS FROM THIS PLAN.
 CONTRACTOR IS RESPONSIBLE FOR PROVIDING IEMPORARY BRACING REQUIRED.
- CONTRACTOR IS RESPONSIBLE FOR PROVIDING TEMPORARY BRACING REQUIRED TO RESIST ALL PORCES BROUNTEED DURING RESCUTION.

 PROPERTIES USED IN THE DESIGN ARE AS FOLLOUS.

 MICROLLAM (LUL. F. p. 2600 Pt. p. 120 Pt. p.

- ALL DEATHS SHALL BE SHIPCHENISE.

 ALL REINFORCING STEEL SHALL BE GRADE 60 BARS CONFORMING TO ASTM A6IS

 AND SHALL HAVE A MINIMUM COVER OF 3'.

 FOUNDATION ANCHORAGE SHALL BE CONSTRUCTED FER THE 2008 NORTH

 FOUNDATION ANCHORAGE SHALL BE CONSTRUCTED FER THE 2008 NORTH

 CAROLINA RESIDENTIAL COOR SECTION RASILE MINIMUM 12' DIA BOLTS

 SPACED AT 6'-0" ON CENTER WITH A 1" MINIMUM EPIBEDMENT INTO MASONEY OR

 CONCRETE MINIMUM (2) ANCHOR BOLTS FER LATE SECTION AND (1) LOCATED

 NOT MORE THAN 12" FROM THE CORNER ANCHOR BOLTS SHALL BE LOCATED IN

 THE CENTER THIRD OF THE FLATE

 CONTRACTOR TO PROVIDED LOCKOUTS WHEN CELLING JOISTS SPAN

 PERPENDICIDE AS TO SATIFFED.
- PERPENDICULAR TO RAFTERS.

 FLITCH BEAMS, 4-PLY LYLS AND 3-PLY SIDE LOADED LYLS SHALL BE SECURED. 2. FLITCH BEAMS, 4-PLY LVLS AND 3-PLY SIDE LOADED LVLS SHALL BE SECURET TOGETHER WITH (2) ROUS OF 12" DIA LLAS GENERIS SPACED AT 12" OC. MIAX. STAGETED) OR EQUIVALENT CONNECTIONS PER DETAIL 20" IT. MIN. EDGE DISTANCE SHALL BE (2" AND (2) SCREUS SHALL BE LOCATED MINIMM 6" FROM EACH END OF THE BEAM.
 ALL NON-LOAD BEARING HEADERS SHALL BE (1) FLAT 2x4 5YP '2, DROPPED. FOR NON-LOAD BEARING HEADERS SHALL BE (1) FLAT 2x4 5YP '2, DROPPED. FOR NON-LOAD BEARING HEADERS EXCEEDING 8"-0" N UDTH AND/OR WITH MORE THAN 2"-0" OF CRIPPLE WALL ABOVE, SHALL BE (2) FLAT 2x4 5YP '2, DROPPED. KULES NOTED OTHERWISE)

J = DOUBLE JOIST	SJ = SINGLE JOIST
= GIRDER TRUSS	FT = FLOOR TRUSS
: STUD COLUMN	DR = DOUBLE RAFTER
= EACH END	TR = TRIPLE RAFTER
- TRIRIE MIST	OC - ON CENTER

TJ = TRIPI CL = CEN		OC = ON CENTER PL = POINT LOAD			
WALL	STUD	SCHEDULE	(10	FT	HEIGH
STUD SIZE		STUD SPA	CING	Inc	٠)

. STUD 50	HEDULE	(IØ FT HE	IGHT)	
STUD SPACING (O.C.)				
ROOF ONLY	ROOF 4 1 FLOOR	ROOF 4 2 FLOORS	NON-LOAD BEARING	
24"	16"	12"	24"	
24"	24"	16"	24"	
	ROOF ONLY	87UD SPA ROOF ONLY ROOF 4 1 FLOOR 24" 16"	ROOF 0NLY	

NOTES:

1. BRACED WALLS STUDS SHALL BE A MAX. OF IS* O.C.

2. STUDS SUPPORTS OPTIONAL WALK-UP ATTIC SHALL BE SPACED A MAX. OF IS* O.C.

3. TUDS STORY WALLS SHALL BE FRAMED W 2x4 STUDS 6 12*
O.C. OR 2x6 STUDS 6 IS* O.C. BALLOON FRAMED W 10 NORZONTAL BLOCKNIS 6 - 60* O.C. KERTICALLY:

LINTEL SCHEDULE				
TA	G	OPENING SIZE		
0)	L3x3xl/4"	LESS THAN 6'-0"	
(2)	L5x3x1/4"	6'-0" TO 10'-0"	
3)	L5x3-1/2x5/16"	GREATER THAN 10'-0'	
(4	>	L5x3-1/2x5/16" ROLLED OR EQUIV.	ALL ARCHED OPENINGS	

NOTES: 1. SECURE LINTEL TO HEADER W/ (2) 1/2" DIAMETER LAG SCREWS STAGGERED AT 16" O.C. (TYP FOR OPENINGS

GREATER THAN 10'-0". 2. ALL HEADERS WHERE BRICK IS PRESENT, TO BE \bigcirc (UNO.)

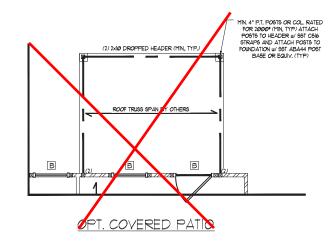
SHADED WALLS INDICATED LOAD BEARING WALLS

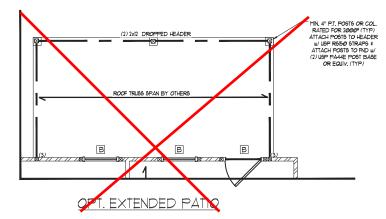
NOTE: ELOOR JOISTS SHALL BE DESIGNED TO SUPPORT ADDITIONAL LOAD UNDER TILE FLOORS, GRANITE COUNTERTOPS AND/OR ISLANDS.

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

NOTE:

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





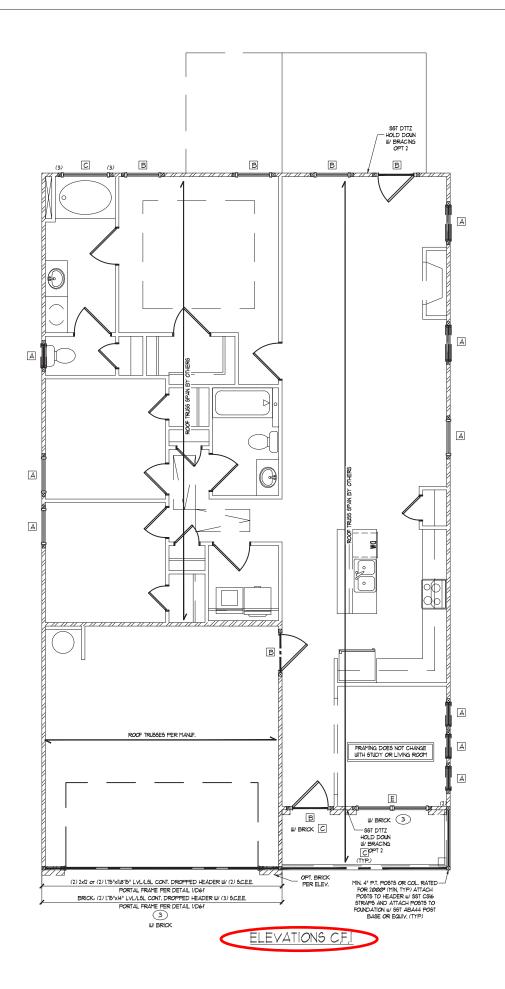
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STRUCTURAL MEMBERS ONLY

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STRUCTURAL ANALYSIS BASED ON 2018 NCRC.

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

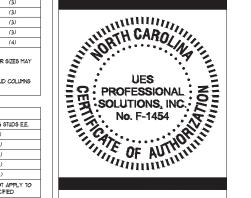


HEADER/BEAM SCHEDULE						
HEADER BEAM TAG TAG		SIZE	JACKS (EACH END)			
- BI (1) 14" FLOOR JO		(1) 14" FLOOR JOIST	(2)			
-	B2	(2) 14" FLOOR JOISTS	(2)			
А	B3	(2) 2x6	(I)			
В	B4	(2) 2x8	(2)			
С	B5	(2) 2xlØ	(2)			
D	В6	(2) 2x12	(2)			
E	B1	(2) 9-1/4" LSL/LVL	(3)			
F	B8	(2) 11-7/8" LSL/LVL	(3)			
G	B9	(2) 14" LSL/LVL	(3)			
н	ВЮ	(2) 16" LVL	(3)			
ı	BII	(2) 18" LVL	(3)			
J	BI2	(2) 24" LVL	(4)			
K	B13	(3) 9-1/4" LSL/LVL	(3)			
L	B14	(3) 11-7/8" LSL/LVL	(3)			
М	B16	(3) I4" LSL/LVL	(3)			
N	BIT	(3) 16" LVL	(3)			
0	BI8	(3) 8" LVL	(3)			
P	B19	(3) 24" LVL	(4)			
NOTES						

NOTES:
L SIZES SHOWN ON PLANS ARE MINIMUMS, GREATER SIZES MAY
BE USED FOR EASE OF CONSTRUCTION.
2. ALL HEADERS TO BE DROPPED UNIO.
3. STUD COLUMNS NOTED ON PLAN OVERRIDE STUD COLUMNS
LISTED ABOVE (UNIO.).

KING STUD SCHEDULE				
MAXIMUM HEADER SPAN MINIMUM KING STUDS E.E.				
3'-Ø"	(1)			
4'-0"	(2)			
8'-Ø"	(3)			
12'-Ø" (5)				
16'-0"	(6)			
KING STUD REQUIREMENT LISTED ABOVE DO NOT APPLY TO OPENING WHERE PORTAL FRAME IS SPECIFIED				

10121 Pineville Distribution St Pineville, NC 28134 Fax: 704.504.1125 www.teamues.com



<u>|</u> 0<u>7</u> Framing s Homes e Ave. 39 Douglas + Reliance , , NC 27539 Floor First CLIENT: Smith I 2520 F

CEDAR POINTE Lot 41



DRAWN BY: EMB CHECKED BY: GWS

ORIGINAL INFORMATION

DATE: Ø5/Ø2/2Ø24

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

PROJECT *: A20117.00403.000

PROJECT * 3832,379

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DRAWING

REFER TO COVER SHEET FOR A COMPLETE LIST OF REVISIONS

DATE 10/19/20

SHEET

S3.2

STRUCTURAL MEMBERS ONLY

TRUSS UPLIFT CONNECTOR SCHEDULE				
MAX. UPLIFT ROOF TO WALL		FLOOR TO FLOOR	FLOOR TO FND	
600 LBS H25A		PER WALL SHEATHING & FASTENERS		
1200 LBS	(2) H2.5A	C916 (END = 11")	DTT2Z	
145Ø LB6	HT52Ø	C916 (END = 11")	DTT2Z	
2000 LBS (2) MTS20		(2) C516 (END = 11")	DTT2Z	
2900 LBS	(2) HTS2Ø	(2) CSI6 (END = 11")	HTT4	
3685 LBS LGT3-9DS25		MSTC52	HTT4	
1 ALL PRODUCTS LISTED ARE SIMPSON STRONG, TIE FOLIVALENT				

1. ALL PRODUCTS LISTED ARE SIMPSON STRONG-TIE. EQUIVALENT PRODUCTS MAY BE USED PER HAMPACTURER'S SPECIFICATIONS.

2. UPLIFT VALUES LISTED ARE POR SYP ? (SEADE PRIMERS & AND INCLUDE ADDITIONAL UNTEDRAUD STREMSTH PROMITED TRUSS TO TOP PLATE TOE NALING PER CHAPTER & OF THE NORC.

3. REFER TO TRUSS LAYOUT FER HAMPACTURER FOR UPLIFT VALUES AND TRUSS TO TRUSS CONNECTIONS, CONNECTIONS SPECIFIED BY TRUSS MAD TRUSS TO TRUSS CONNECTIONS, CONNECTIONS SPECIFIED BY TRUSS MAD TRUSS TO TRUSHACTURER OF REPORTIBLE FOR VERIFYING CONNECTORS SATISFIES ALL TRUSS BEARING REQUIREMENTS.

5. CONTACT LES FOR REQUIRED CONNECTIONS UHEN LOADS EXCEED THOSE LISTED ABOVE.

NOTE: 19T PLY OF ALL SHOWN GIRDER TRUSSES TO ALIGN WITH INSIDE FACE OF WALL (TYP, UNO)

NOTE: ROOF TRUSSES SHALL BE SPACED TO SUPPORT FALSE FRAMED DORMER WALLS (TYP, UNO)

NOTE: TRUSS UPLIFT LOADS SHALL BE DETERMINED PER TRUSS MANAGETHER IN ACCORDANCE WITH SECTION REQUIL! WALL SHAFTHER AND ASSISTED SHAFTHER WHO PERT DESIGNED TO RESIST THE WIND UPLIFT LOAD PATH IN ACCORDANCE WITH METHOD 3 OF SECTION REGISTS OF THE 2018 NERK. REFER TO BRACED WALL PLANS FOR SHAFTHING AND FASTENER REGUIRETHENS.

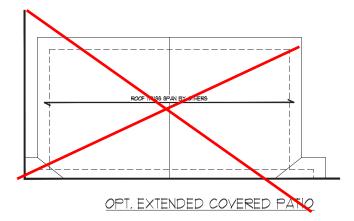
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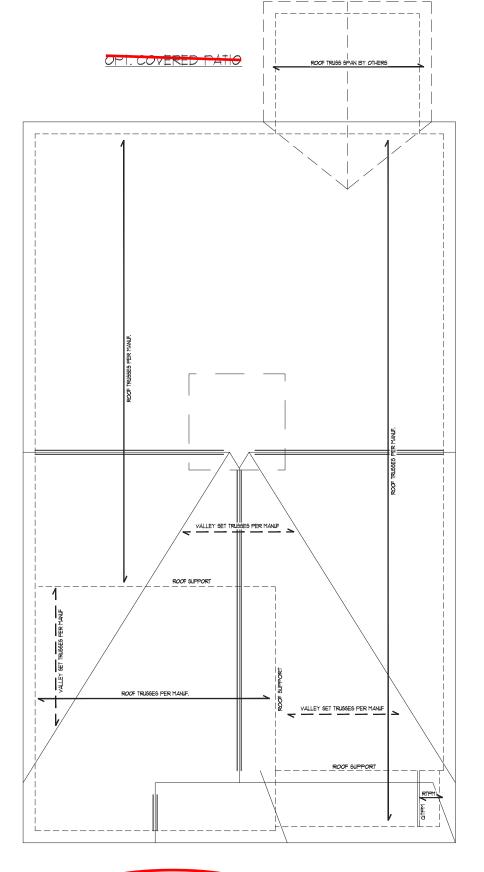
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STRUCTURAL ANALYSIS BASED ON 2018 NCRC.

ROOF FRAMING PLAN









ELEVATIONS C.F.I



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Raleigh Plan client: Smith Douglas Homes -2520 Reliance Ave. Apex, NC 21539 б Framin Roof

DRAWING

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Piedmont

DATE: 05/02/2024

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

PROJECT *: A2@IIT.@@4@3.@@@

DRAWN BY: EMB

CHECKED BY: GWS

ORIGINAL INFORMATION

PROJECT *

10/19/20 3832,379

DATE

REFER TO COVER SHEET FOR A COMPLETE LIST OF REVISIONS

SHEET

S5.2

STRUCTURAL MEMBERS ONLY

1	REQUIRED BRACED WALL PANEL CONNECTIONS				
		MIN.	REQUIRED (CONNECTION	
METHOD	MATERIAL	THICKNESS	© PANEL EDGES	INTERMEDIATE SUPPORTS	
C5-W6P	ILOOD STRUCTURAL PANEL	3/8"	6d COMMON NAILS # 6" O.C.	6d COMMON NAILS # 12" O.C.	
GB	GYPSUM BOARD	1/2"	5d COOLER NAILS** # 7" O.C.	5d COOLER NAILS** # 1" O.C.	
WSP	WOOD STRUCTURAL PANEL	3/8"	6d COMMON NAILS 8 6" O.C.	6d COMMON NAILS 9 12" O.C.	
PF	WOOD STRUCTURAL PANEL	7/16"	PER FIGURE R602.10.6.4	PER FIGURE R602.10.6.4	
"OR EQUIVALENT PER TABLE RT0235					

BRACED WALL NOTES:

- BRACED WALL NOTES

 1. WALLS SHALL BE DESIGNED IN ACCORDANCE W SECTION REGILLS FROM THE 205
 INTERNATIONAL RESIDENTIAL CODE W ALL LOCAL AND STATE AMENDMENTS.

 2. WALLS ARE DESIGNED FOR SEISING ZORES A-C AND ULTHATE DESIGN WIND
 SPEEDS UP TO 180 PMT.

 3. REFER TO ARCHITECTURAL PLAN FOR DOORNINDOW OPENING SIZES.

 4. BRACING MATERIALS, PHILODS AND FASTENERS SHALL BE IN ACCORDANCE WITH
 TABLE REGILLS.

 5. ALL BRACED WALL PANELS SHALL BE FILL WALL HEIGHT AND SHALL NOT
 EXCRED 10 FEET FOR ISOLATED PANEL METHOD AND IN FEET FOR CONTINUOUS
 SHALTING TETHOO WITHOUT ADDITIONAL PENINEERING ACCULULATIONS.

 6. INNINUM PANEL LENGTH SHALL BE FIRE TABLE REGILLS.

 6. INNINUM PANEL LENGTH SHALL BE FIRE TABLE REGILLS.

 6. FOR CONTINUOUS SHEATHED CONTINUOUS, WITH INNINUM 12" SYPEM BOARD (WO).

 7. FOR CONTINUOUS SHEATHED THENDE YERROR WALLS SHALL BE SHEATHED ON
 ALL SHEATHABLE SURFACES INCLIDING INFILL AREAS BETWEEN BRACED WALL

 FANELS, ABOVE AND BECOM WALL OF WITHOUT AND AND THE STORM WALLS SHALL BE SHEATHED ON
 ALL SHEATHABLE SURFACES INCLIDING INFILL AREAS BETWEEN BRACED WALL

 FANELS, ABOVE AND BECOM WALL OFFENS, AND ON GABLE FROM WALLS

 9. FLOORS SHALL NOT BE CANTILEVERED NOISE THAN 14" BY OND THE ROUNDATION
 OR BEARNING WALL BY AND FOR THE SHALL BE LOCATED WITHIN 10 FEET OF EACH IND OF A
 BRACED WALL IN PANEL SHALL BE LOCATED WITHIN 10 FEET OF EACH IND OF A
 BRACED WALL IN PANEL SHALL BE LOCATED WITHIN 10 FEET OF EACH IND OF A
 BRACED WALL INC.

- 20. A BRACED WILL, PANEL SHALL BE LOCATED WITHIN 10 FEET OF EACH END OF A BRACED WILL LINE.

 11. THE MAXIMAT EDGE DISTANCE BETWEEN BRACED WALL PANELS SHALL NOT EXCEED 20 FEET.

 12. MASONEY OR CONCRETE SIEM WILL DANEL SHALL BE DESIGNED IN ACCORDANCE WITH FOUNE 6801/109 OF THE 205 INC.

 13. BRACED WILL PANEL CONNECTIONS TO FLOOR/CELLING SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION REGILING.

 14. BRACED WILL PANEL CONNECTIONS TO ROOF SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION REGILING.

 15. CRIPPIE WILLS AND WILL OF BASPIENT WILLS SHALL BE DESIGNED IN ACCORDANCE WITH SECTION REGILING.

 16. CRIPPIE WILLS AND WILL OF BASPIENT WILLS SHALL BE DESIGNED IN ACCORDANCE WITH SECTION REGILING.

 16. PORTAL WILLS SHALL BE DESIGNED IN ACCORDANCE WITH FIGURE REGILINGS.

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

 18. ABBREVIATIONS.

NOTE: WALL SHEATHING AND FASTENERS HAVE BEEN DESIGNED TO RESIST THE CONTINUOUS WIND UPLIFT LOAD PATH IN ACCORDANCE WITH METHOD 3 OF SECTION R60235 OF THE 2018 NORC.

FIRST FLOOR BRACING (FT)					
CON	CONTINUOUS SHEATHING METHOD				
	REQUIRED	PROVIDED			
BWL 1-I	9,6	14.7			
BWL 1-2	9,6	14.2			
BWL 1-3	4.7	1.8			
BUL 1-A	5.7	35.Ø			
BW. 1-B	51	481			

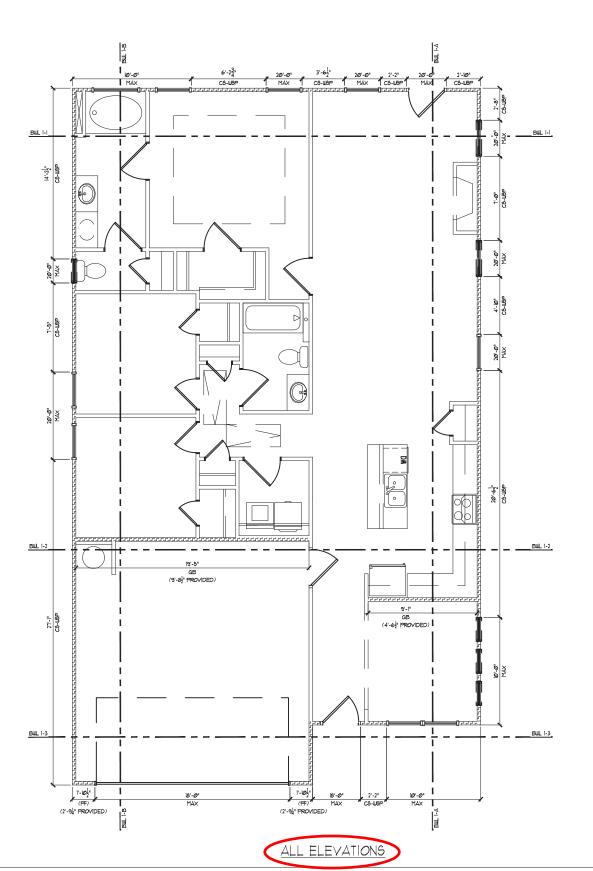
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STRUCTURAL ANALYSIS BASED ON 2015 IRC.

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





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<u>|</u> 0<u>7</u> s Homes e Ave. 39 Douglas H Reliance , , NC 21539 CLIENT: Smith I 2520 F

DRAWING

DATE: Ø5/Ø2/2Ø24

Bracing

Ont - LH Floor B

Piedmont First

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

PROJECT *: A2@IIT.@@4@3.@@@

DRAWN BY: EMB

CHECKED BY: GWS

ORIGINAL INFORMATION

PROJECT * 3832,379

DATE 10/19/20

REFER TO COVER SHEET FOR A COMPLETE LIST OF REVISIONS

SHEET

S7.0





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POINTE

Lot 41

STRUCTURAL MEMBERS ONLY

1	REQUIRED BRA	ACED WA	LL PANEL CONN	IECTIONS	
		MIN.	REQUIRED CONNECTION		
METHOD MATE	MATERIAL	THICKNESS	© PANEL EDGES	 INTERMEDIATE SUPPORTS 	
C9-W6P	WOOD STRUCTURAL PANEL	3/8"	6d COMMON NAILS # 6" O.C.	6d COMMON NAILS # 12" O.C.	
G₽	GYPSUM BOARD	1/2"	5d COOLER NAILS** @ 7" O.C.	5d COOLER NAILS** # 1" O.C.	
WSP	WOOD STRUCTURAL PANEL	3/8"	6d COMMON NAILS 9 6" O.C.	6d COMMON NAILS 8 12" O.C.	
PF	WOOD STRUCTURAL PANEL	7/16"	PER FIGURE R602.10.6.4	PER FIGURE R602.10.6.4	
"OR EQUIVALENT PER TABLE R10235					

BRACED WALL NOTES:

- BRACED WALL NOTES

 1. WALLS SHALL BE DESIGNED IN ACCORDANCE W SECTION REGILLS FROM THE 205
 INTERNATIONAL RESIDENTIAL CODE W ALL LOCAL AND STATE AMENDMENTS.

 2. WALLS ARE DESIGNED FOR SEISING ZORES A-C AND ULTHATE DESIGN WIND
 SPEEDS UP TO 180 PMT.

 3. REFER TO ARCHITECTURAL PLAN FOR DOORNWINDOW OPENNS SIZES.

 4. BRACINE MATERIALS, PHILODS AND FASTENERS SHALL BE IN ACCORDANCE WITH
 TABLE REGILLS.

 5. ALL BRACED WALL PANELS SHALL BE FILL WALL HEIGHT AND SHALL NOT
 EXCRED 10 FEET FOR ISOLATED PANEL METHOD AND DIFET FOR CONTINUOUS
 SHALTING TETHOO WITHOUT ADDITIONAL PENNEERING ACCULULATIONS.

 6. INNINUM PANEL LENGTH SHALL BE FIRE TABLE REGILLS.

 6. INNINUM PANEL LENGTH SHALL BE FIRE TABLE REGILLS.

 6. FOR CONTINUOUS SHEATHED CONTINUOUS, TWITH INNINUM 12" SYPEM BOARD (WO).

 7. FOR CONTINUOUS SHEATHED THENDE PENERIC MALLS SHALL BE SHEATHED ON
 ALL SHEATHABLE SURFACES INCLIDING INFILL AREAS BETWEEN BRACED WALL

 FANELS, ABOVE AND BECOME WILL OFFEN SHALL SHE SHEATHED ON
 ALL SHEATHABLE SHALL BE LOCATED WITHOUT AND 14" EYPOND THE FOUNDATION
 OR BEARNS WALL BE COUNTY OF A
 BRACED WALL PANEL SHALL BE LOCATED WITHIN 10" FEET OF EACH BUD OF A
 BRACED WALL PANEL SHALL BE LOCATED WITHIN 10" FEET OF EACH BUD OF A
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 BRACED WALL PANEL SHALL BE LOCATED WITHIN 10" FEET OF EACH BUD OF A
 BRACED WALL BRACED WALL BE RECEIVED.

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

 11. THE MAXIMATE DOES DISTANCE BETWEEN BRACED WALL PANELS SHALL NOT EXCEED 20 FEET.

 12. MASONRY OR CONCRETE STEM WALLS WITH A LENGTH OF 49° OR LESS SUPPORTING A BRACED WALL PANEL SHALL BE DESIGNED IN ACCORDANCE WITH FIGURE 1960/209 OF THE 2015 IRC.

 13. BRACED WALL PANEL CONNECTIONS TO FLOORICELING SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION RE0/209

 14. BRACED WALL PANEL CONNECTIONS TO ROOF SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION RE0/2092

 15. CRIPPILE WALLS AND WALK OUT BASEMENT WALLS SHALL BE DESIGNED IN ACCORDANCE WITH SECTION RE0/2092

 16. ROPETAL WALLS SHALL BE DESIGNED IN ACCORDANCE WITH SECTION RE0/2092

 17. ROPETAL WALLS SHALL BE DESIGNED IN ACCORDANCE WITH SECTION RE0/2092

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

NOTE: WALL SHEATHING AND FASTENERS HAVE BEEN DESIGNED TO RESIST THE CONTINUOUS WIND UPLIFT LOAD PATH IN ACCORDANCE WITH METHOD 3 OF SECTION R60235 OF THE 2018 NORC.

FIRST FLOOR BRACING (FT)						
CONTINUOUS SHEATHING METHOD						
	REQUIRED PROVIDED					
BWL 1-I	9,6	11.9				
BWL 1-2	9,6	14.2				
BWL 1-3	4.1	1.8				
BWL 1-A	5.1	22,1				
BW. 1-B	51	206				

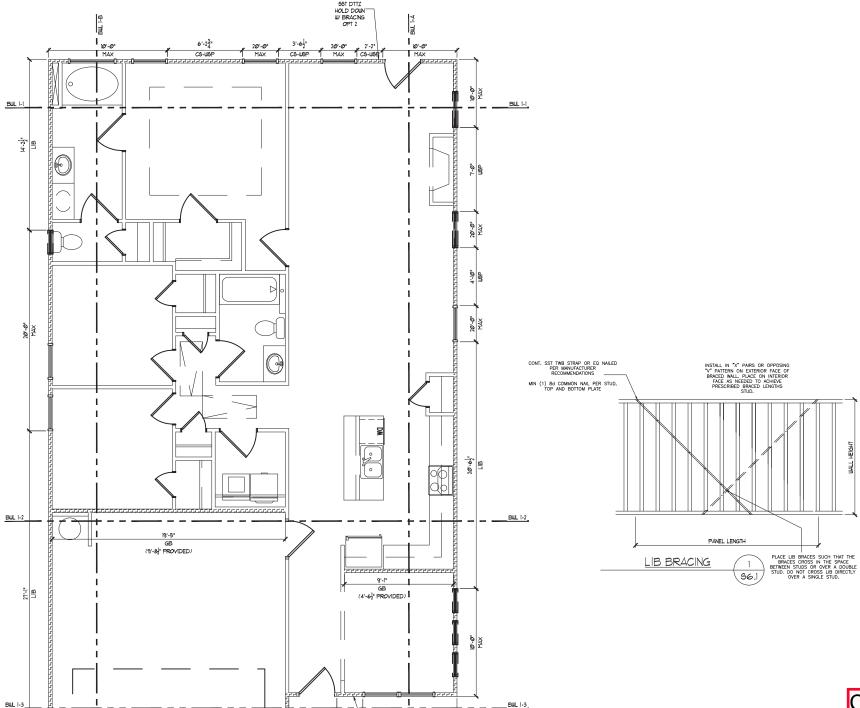
THESE PLANS ARE DESKNED IN ACCORDANCE WITH ARCHITECTURAL PLANS PROVIDED BY SMITH DOUGLAS HOMES COMPLETED/REVISED ON QAIQUIZ3. IT IS THE RESPONSIBILITY OF THE CLIENT TO NOTIFY UES PROFESSIONAL SOLUTIONS, FOR, FAYY CHAVES ARE TAKED TO THE ARCHITECTURAL PLANS PRIOR TO CONSTRUCTION, UES CANNOT GUARANTEE THE ADEQUACY OF THESE STRUCTURAL PLANS WENT WEST DITH ARCHITECTURAL PLANS DATED DIFFERENTLY THAN THE DATE LISTED ABOVE.

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. ANY DEVIATIONS OR DISCREPANCIES ON PLANS ARE TO BE BROUGHT TO THE IMMEDIATE ATTENTION OF UES PROFESSIONAL SOLUTIONS, INC. FAILURE TO DO SO

STRUCTURAL ANALYSIS BASED ON 2015 IRC.

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



HOLD DOWN W/ BRACING OPT 2

(2'-91" PROVIDED)

ALL ELEVATIONS

BRACING OPTION

(2'-91" PROVIDED)





STRUCTURAL MEMBERS ONLY



10121 Pineville Distribution St Pineville, NC 28134 Fax: 704.504.1125 www.teamues.com



<u>|</u> 0<u>7</u> Bracing s Homes e Ave. 39 Douglas H Reliance , , NC 21539 土 Floor ie ed m First CLIENT: Smith I 2520 F

DRAWING

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DATE: Ø5/Ø2/2Ø24

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

PROJECT *: A20117.00403.000

DRAWN BY: EMB

CHECKED BY: GWS

ORIGINAL INFORMATION

PROJECT * 3832,379

REFER TO COVER SHEET FOR A

DATE

10/19/20

COMPLETE LIST OF REVISIONS

SHEET

S7.2

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:

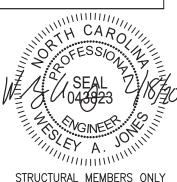
- 1. Fabrication and placement of structural fiberboard sheathing shall be in accordance with the applicable AFA standards
- 2. Fiberboard wall sheathing shall comply with the requirements of local building codes for the appropriate state as indicated on these drawings. Refer to wall bracing notes in 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.

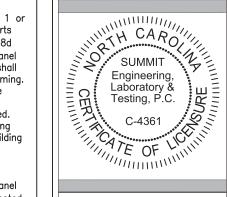
STRUCTURAL STEEL:

- 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 |

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CURRENT DRAWING

Details

Standard

DATE: 2/18/20 SCALE: NTS

PROJECT #: 3832

DRAWN BY: LBV

CHECKED BY: WAI

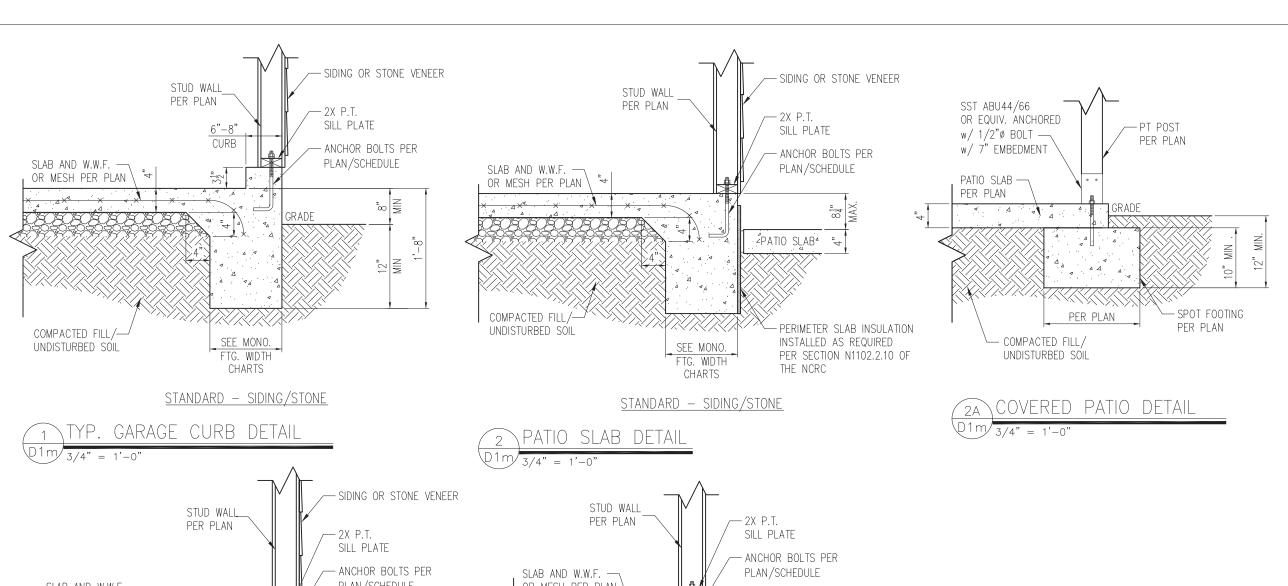
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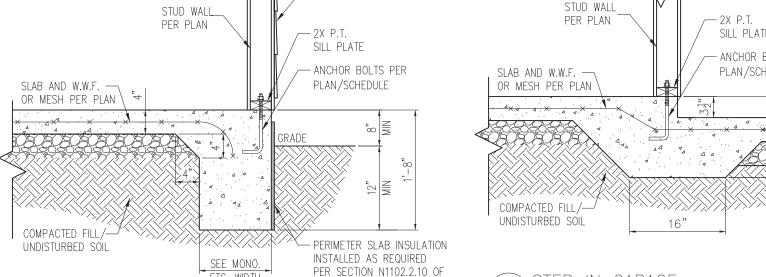
DATE PROJECT # 1/7/16 3832

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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

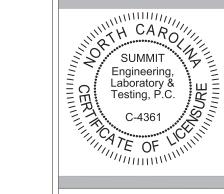
# OF STORIES	WIDTH BASED ON SOIL BEARING CAPACITY			
	1500 PSF	2000 PSF	2500 PSF	
1 STORY - STD.	16"	16"	16"	
1 STORY - BRICK VENEER	21"*	21"*	21"*	
2 STORY - STD.	20"	16"	16"	
2 STORY - BRICK VENEER	25"*	21"*	21"*	
*5" BRICK LEDGE HAS BEEN ADDED TO THE MONOLITHIC				

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

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SCALE: NTS

PRO1ECT # · 3832

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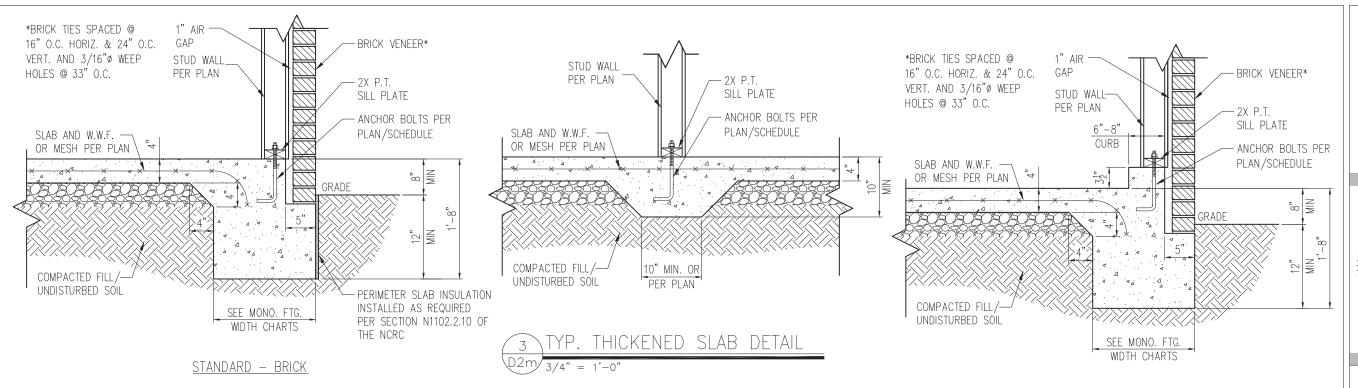
ORIGINAL DRAWING

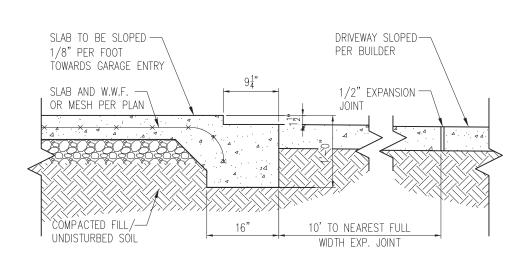
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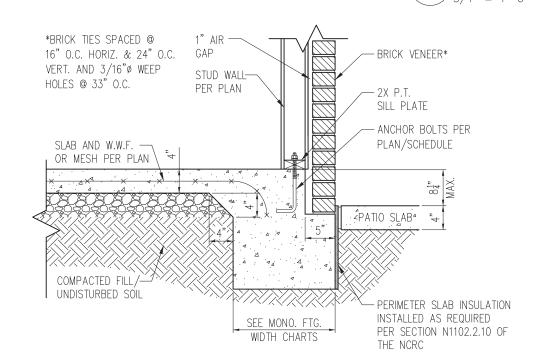
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YP. SLAB DETAIL W/ BRICK VENEER



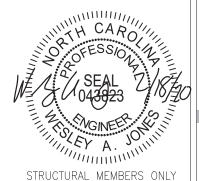


STANDARD - BRICK

PATIO SLAB DETAIL W/BRICK VENEER

NOTES

- 1. REFER TO GENERAL NOTES & SPECIFICATIONS ON SHEET CS2 FOR ADDITIONAL INFORMATION.
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- 3. SEE ARCH. DWGS. FOR ALL TOP OF THE SLAB ELEVATIONS, SLOPES AND DEPRESSIONS.



STANDARD - BRICK

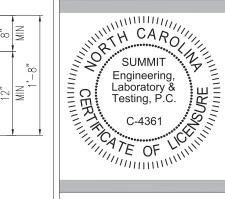
TYP. GARAGE CURB DETAIL

W/ BRICK VENEER

SUMMIT
ENGINEERING LABORATORY TESTING
3070 HAMMOND BUSINESS PLACE,
SUITE 171, RALEIGH, NC 27603
OFFICE: 919.380.9991

FAX: 919.380.9993

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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

SCALE: NTS

PROJECT #: 3832

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CHECKED BY: WAJ

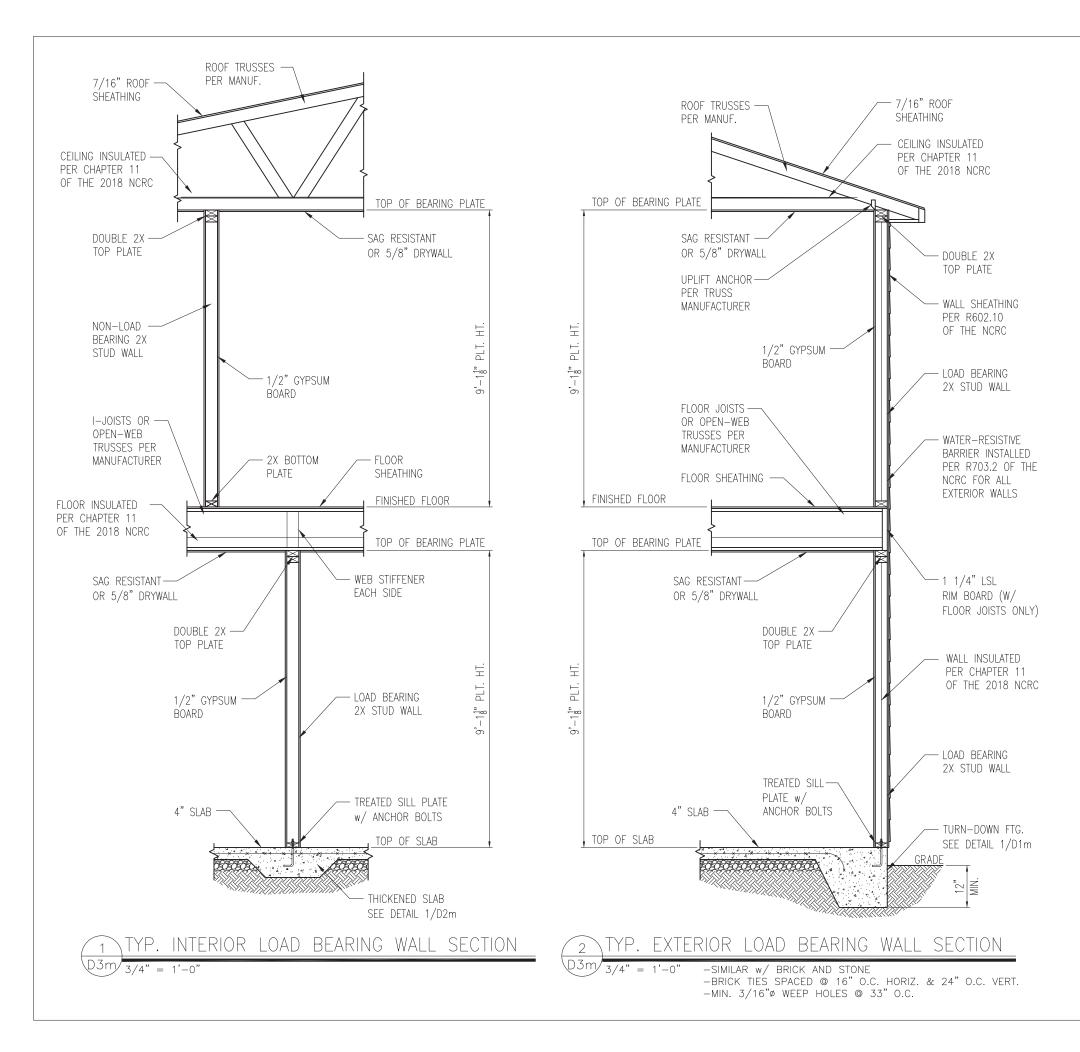
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Slab Details Smith Douglas Homes 110 Village Trail, Suite 2 Woodstock, GA 30188 Standard Details Monolithic

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THE CAROLLING

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SUMMIT Engineering, Laboratory & Testing, P.C.

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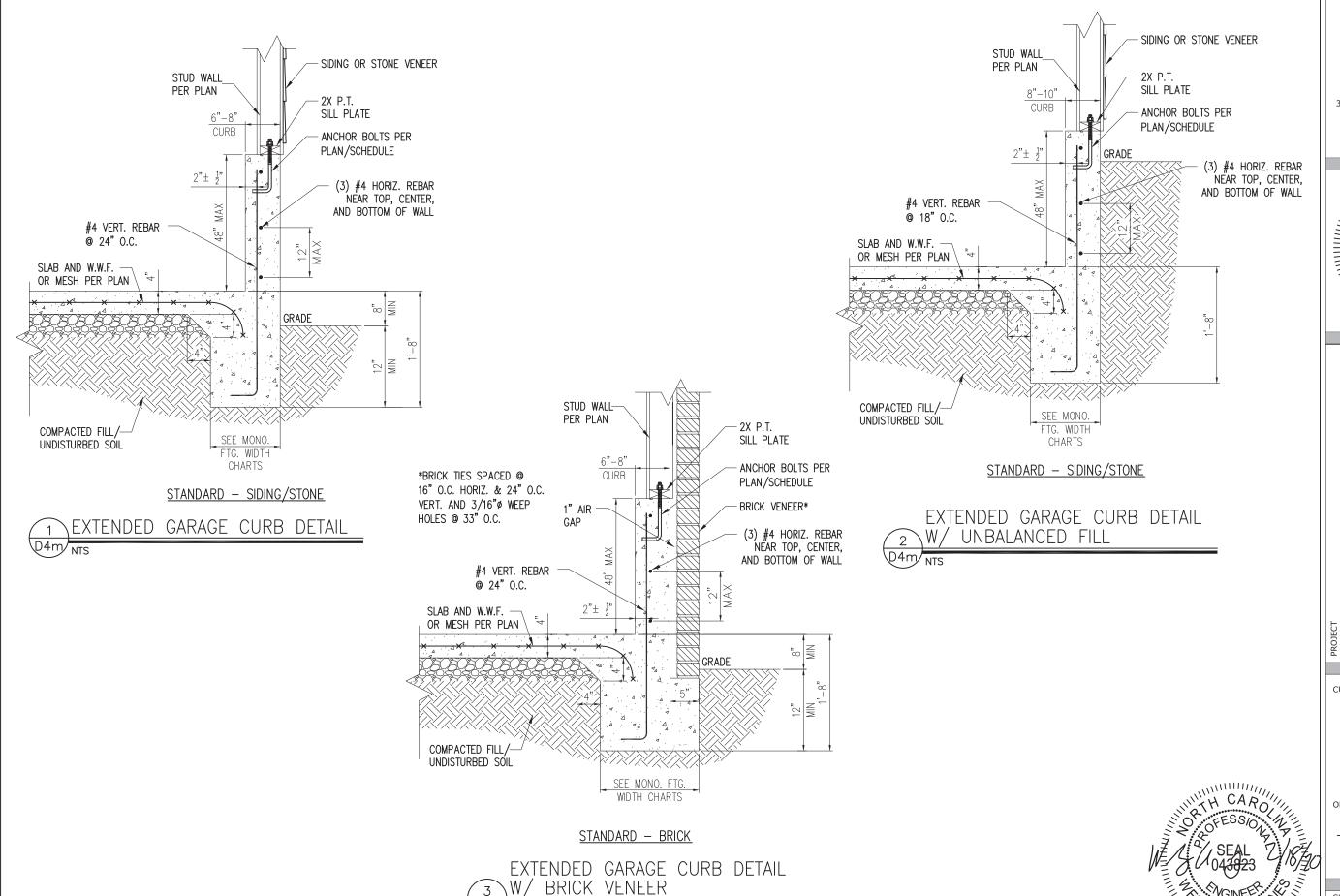
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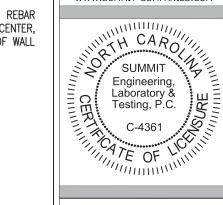




D4m/NTS



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Standard Details

Monolithic Slab Details

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

2

CURRENT DRAWING

DATE: 2/18/20

SCALE: NTS

PROJECT #: 3832

DRAWN BY: LBV

CHECKED BY: WAJ

ORIGINAL DRAWING

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

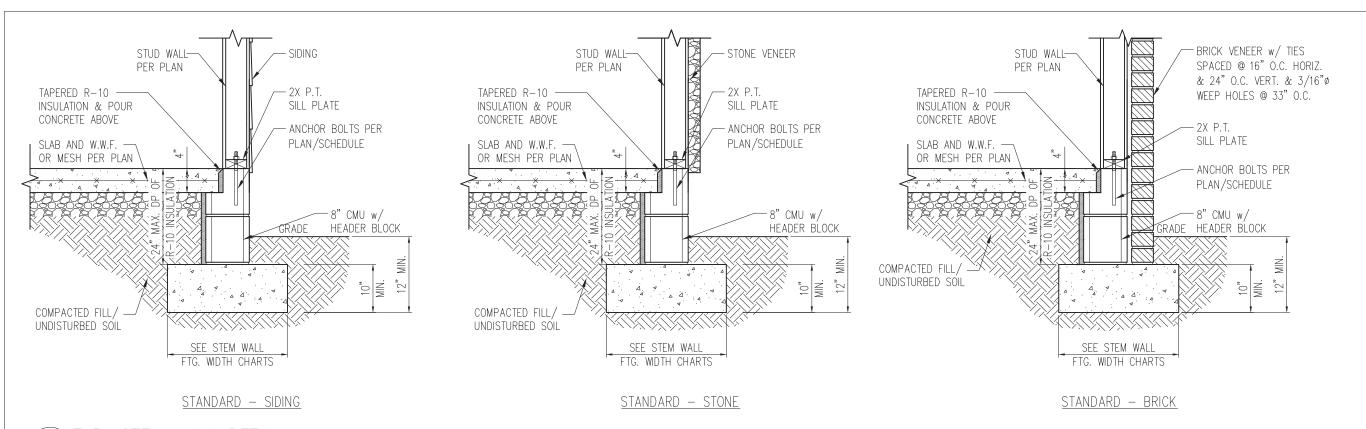
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SHEET

THEY A. JOHN

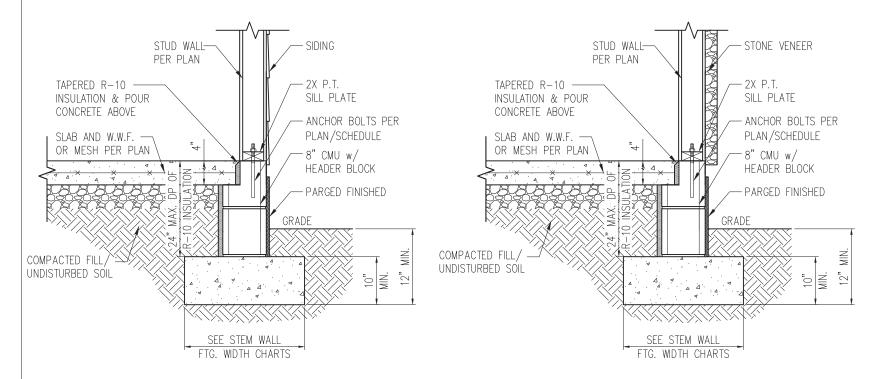
STRUCTURAL MEMBERS ONLY

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

# 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					

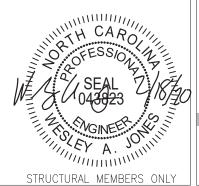
WALL ANCHOR SCHEDULE

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

- 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, SLOPS AND DEPRESSIONS.

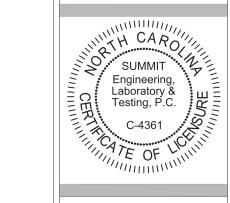


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Standard Details
Stemwall Details
Smith Douglas Homes
110 Village Trail, Suite 21!
Woodstock, GA 30188

2

CURRENT DRAWING

DATE: 2/18/20

SCALE: NTS

PROJECT #: 3832

DRAWN BY: LBV
CHECKED BY: WAJ

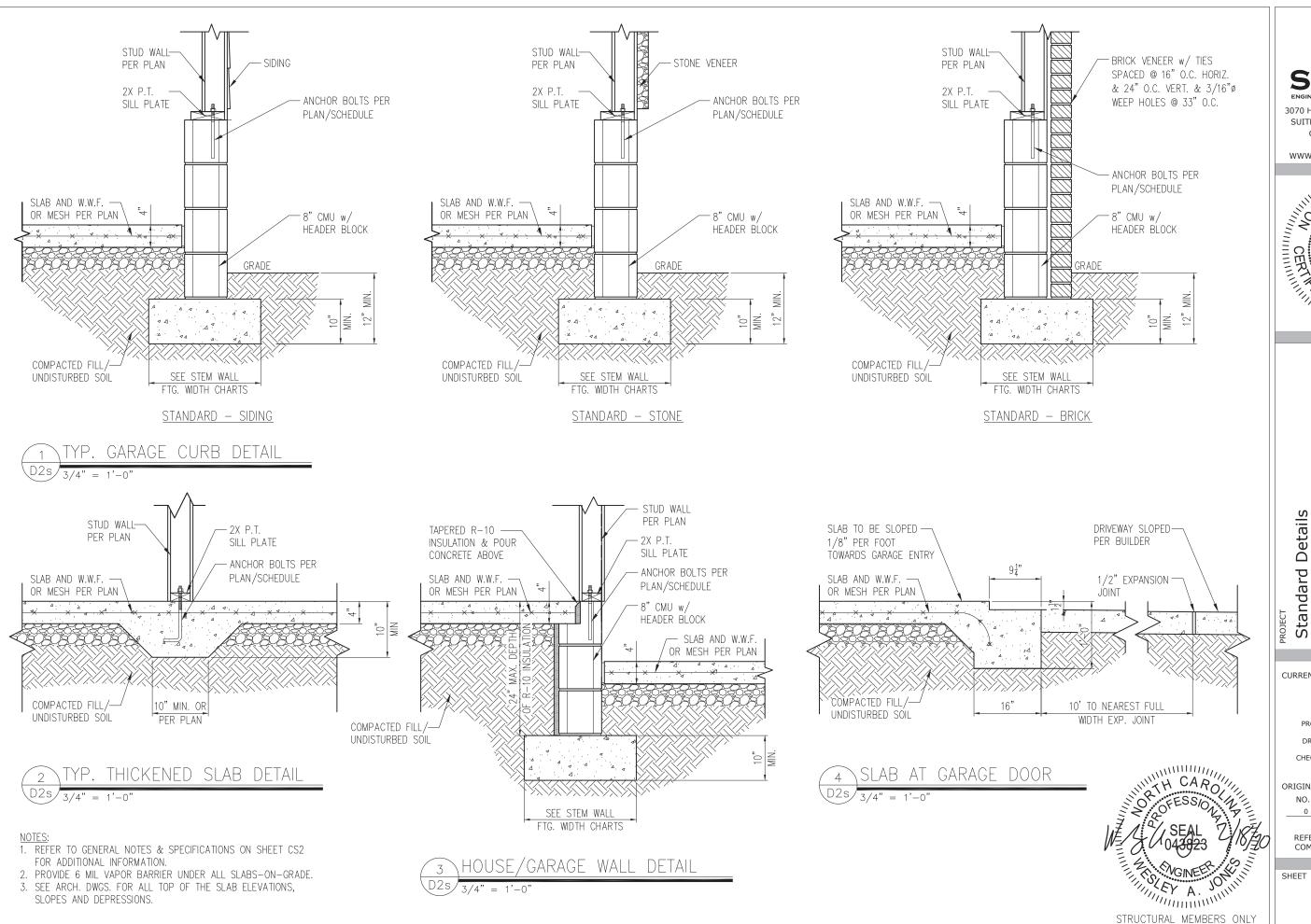
ORIGINAL DRAWING

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

REFER TO COVER SHEET FOR A COMPLETE LIST OF REVISIONS

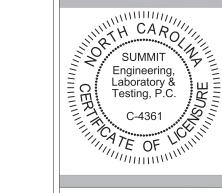
SHEET

D1s





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2 21 Smith Douglas Homes 110 Village Trail, Suite 2 Woodstock, GA 30188 Stemwall Details

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PRO1ECT # · 3832

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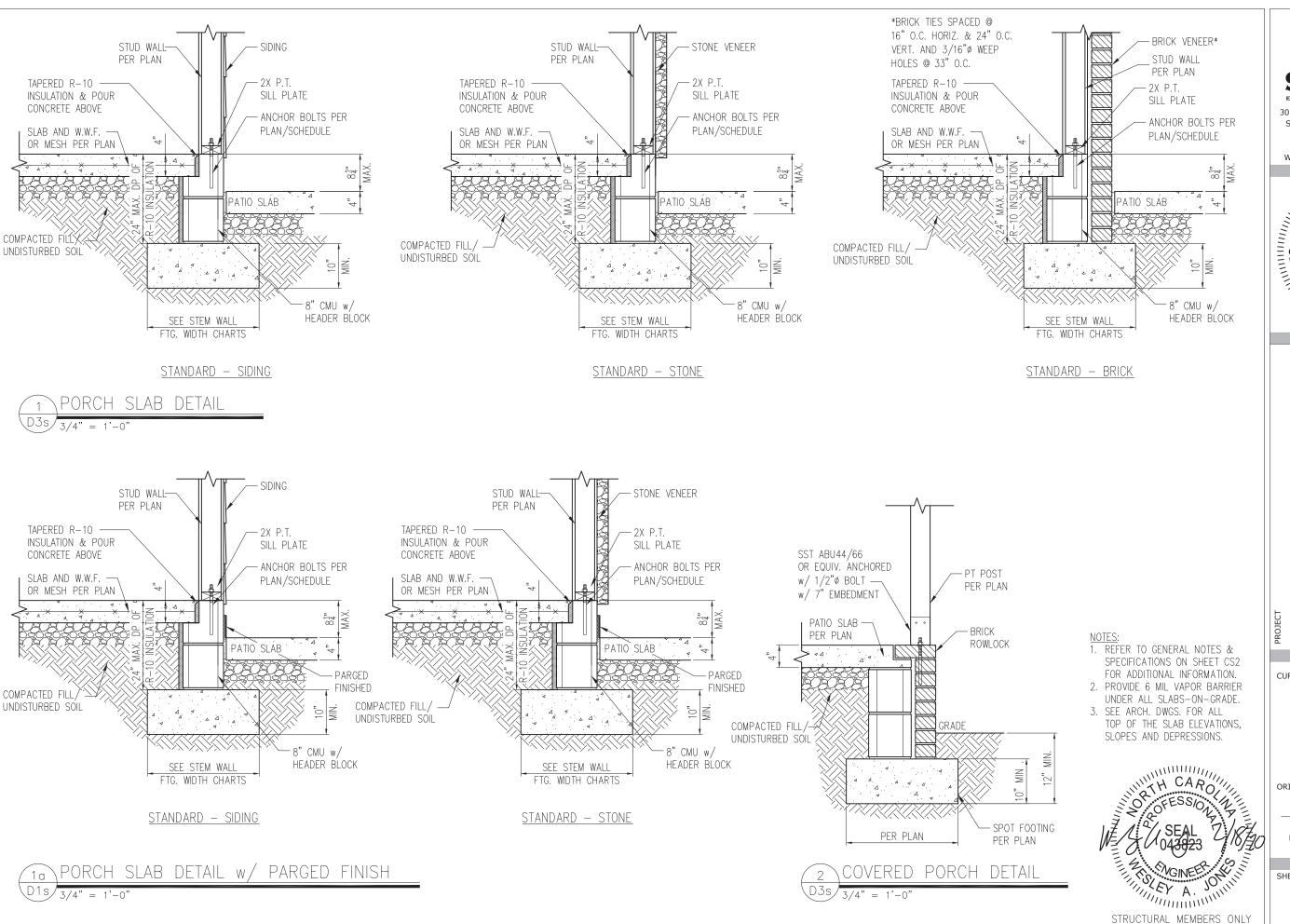
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DATE PROJECT # 1/7/16 3832

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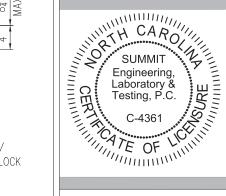
SHEET

D2s





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PRO1FCT #: 3832

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CHECKED BY: WAJ

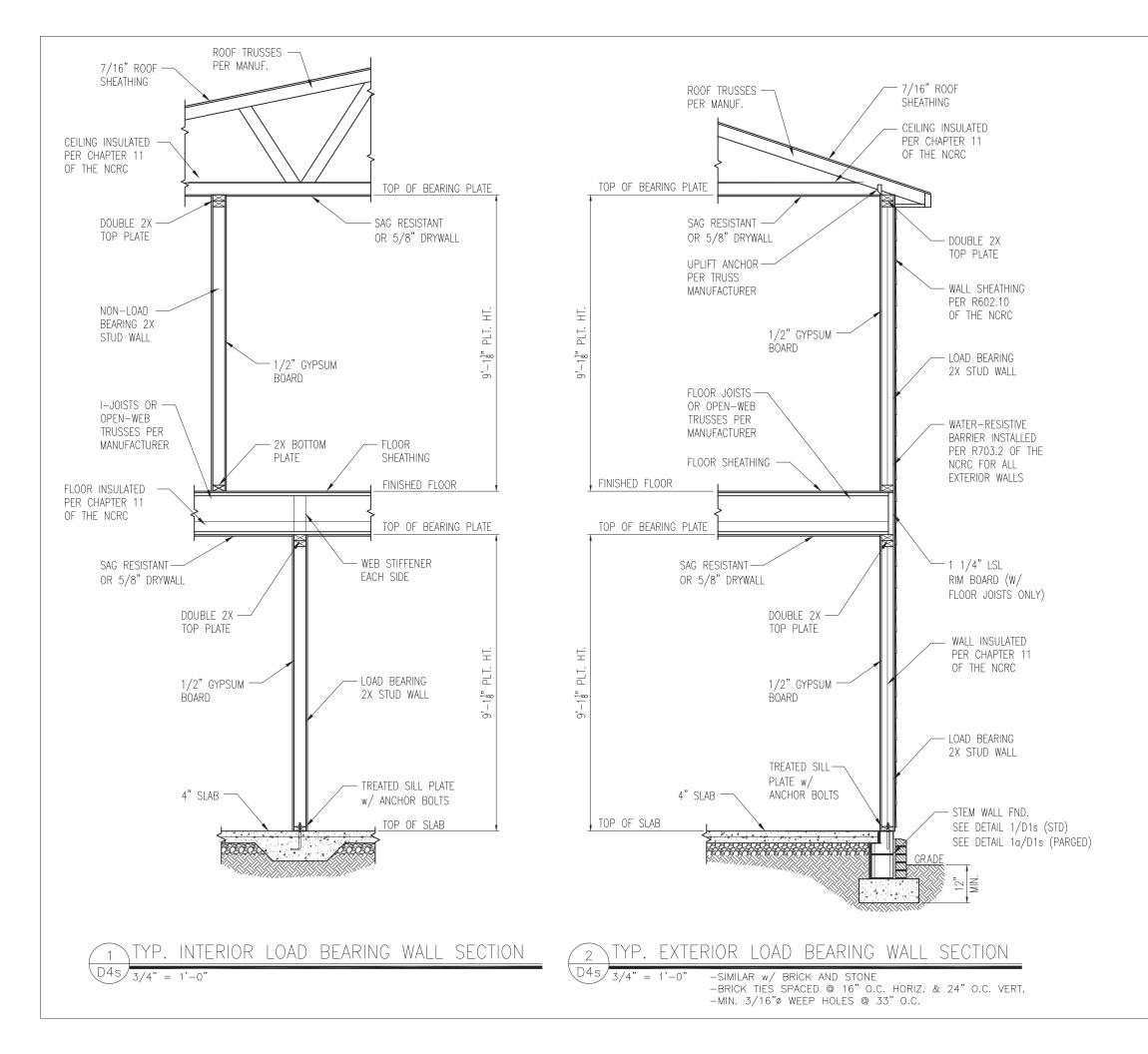
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DATE PROJECT # 1/7/16

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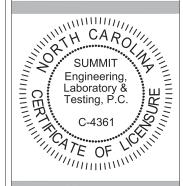
SHEET

D3s





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SCALE: NTS

PRO1ECT #: 3832

DRAWN BY: LBV

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ORIGINAL DRAWING

DATE PROJECT # 1/7/16 3832

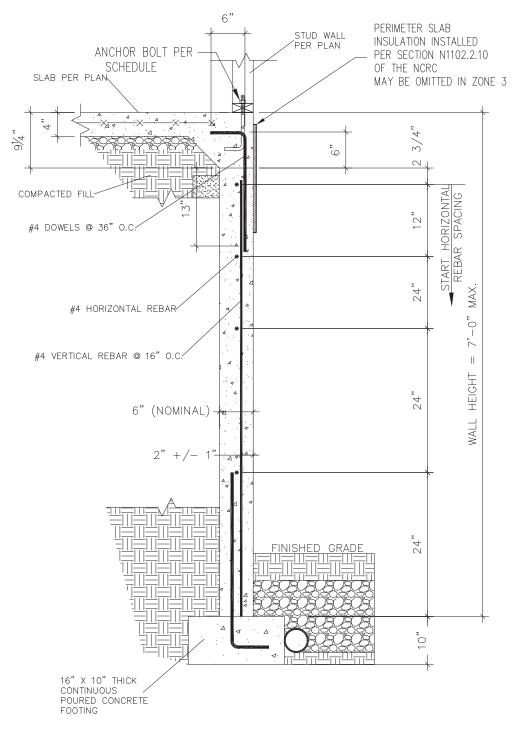
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SHEET

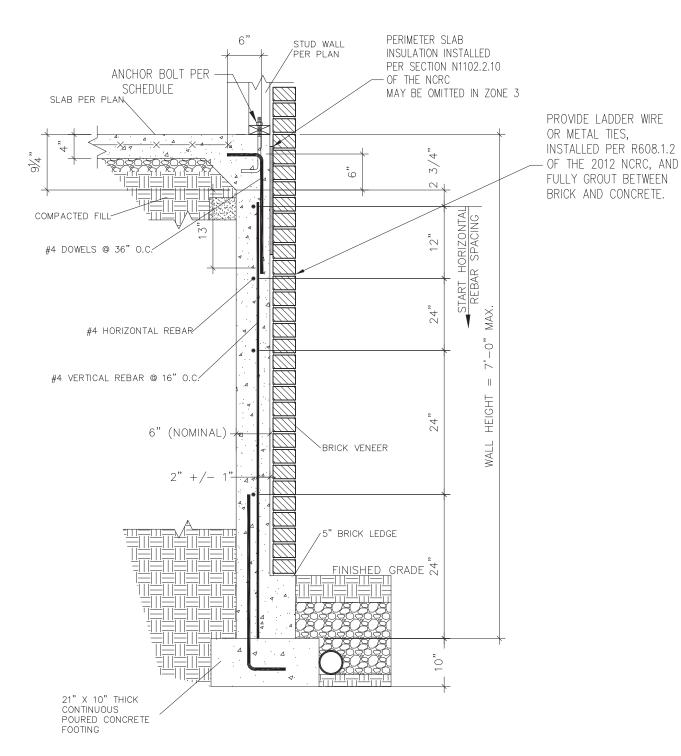
D4s

- 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

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

2

21

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Standard Details

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SCALE: NTS

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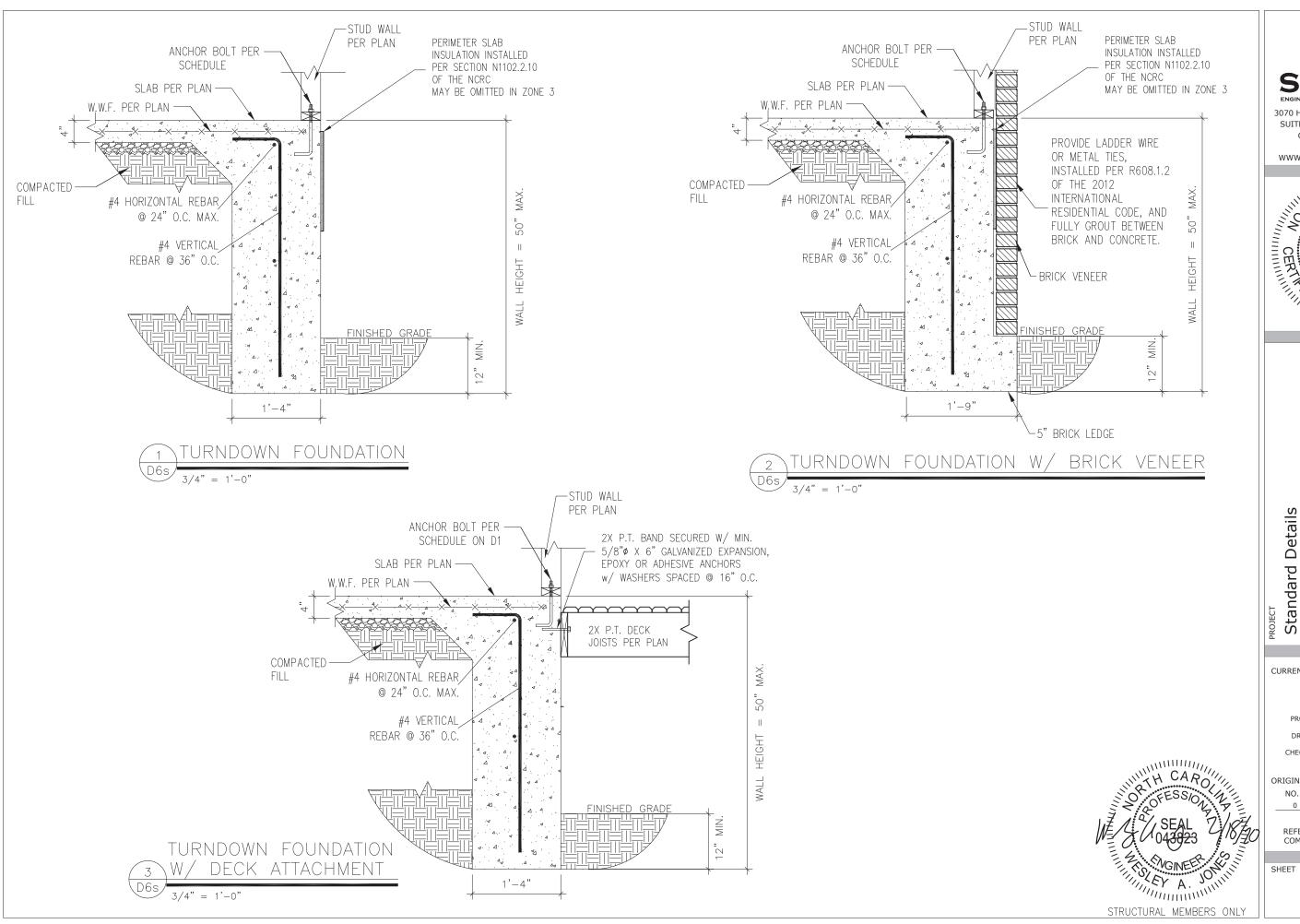
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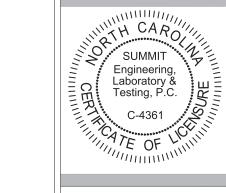
SHEET

D5s





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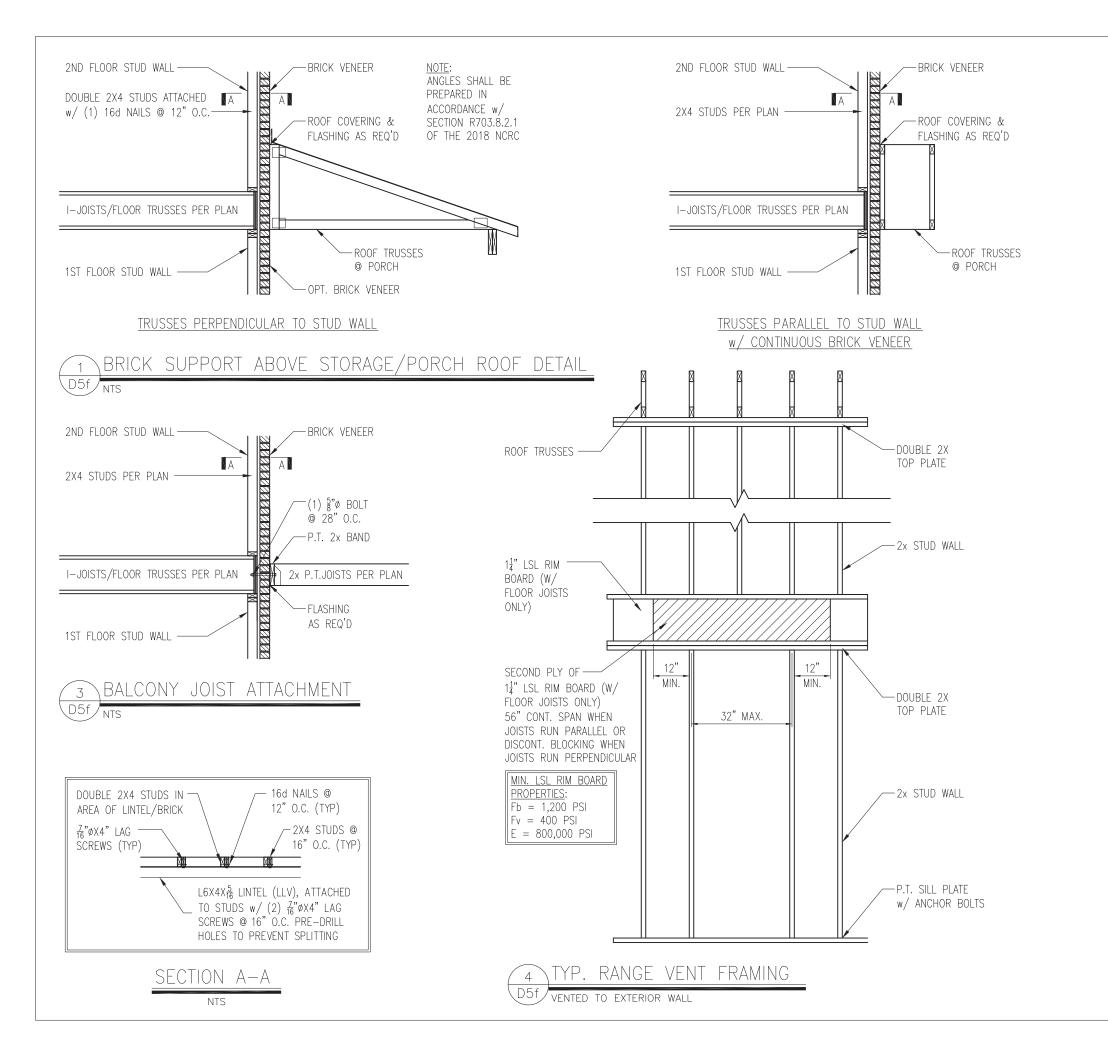
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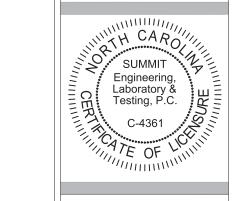
SHEET

D6s





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Smith Douglas Homes
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Woodstock, GA 30188

2

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O DATE PROJECT # 1/7/16 3832

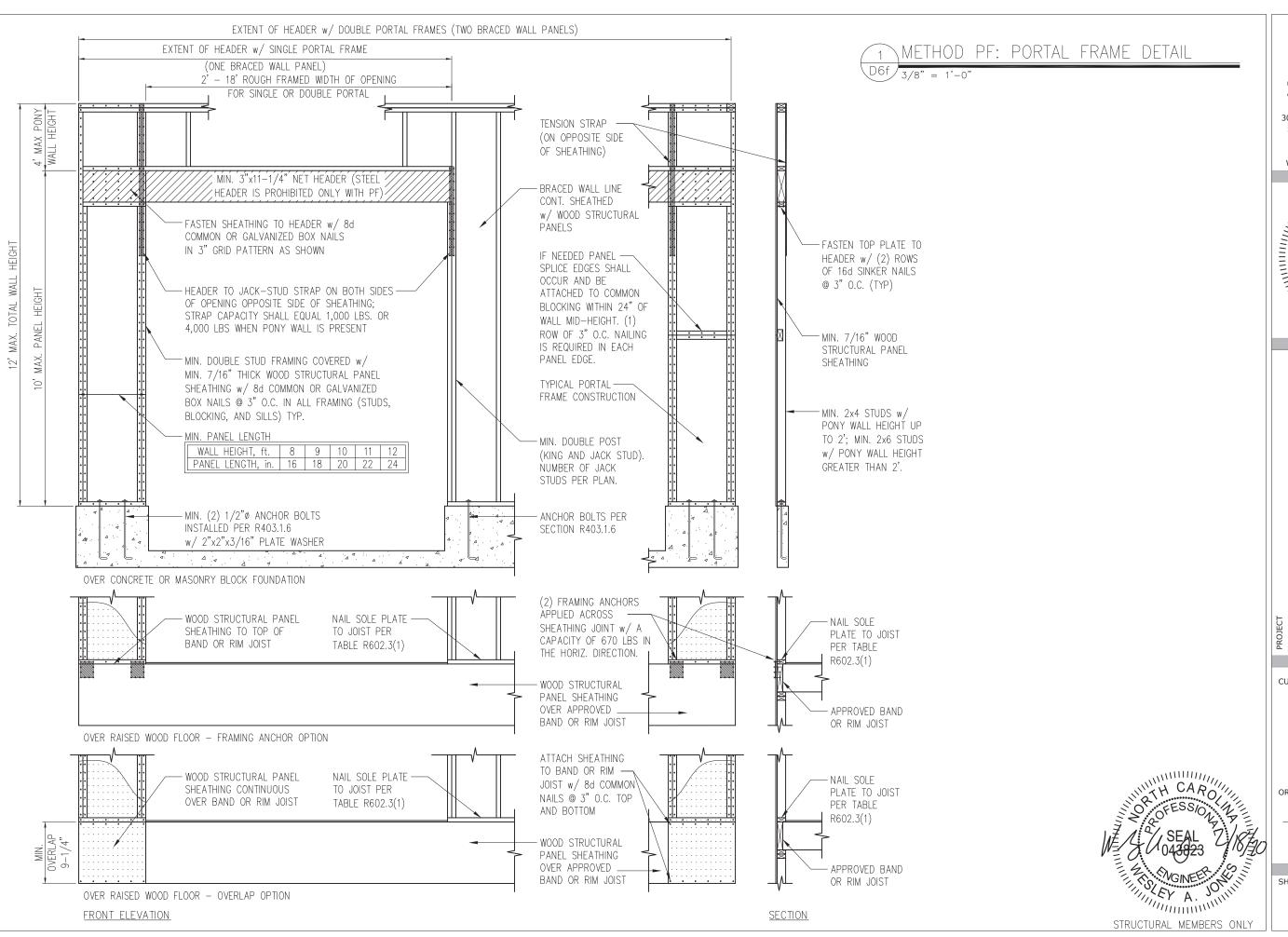
REFER TO COVER SHEET FOR A COMPLETE LIST OF REVISIONS

SHEET

THEY A. JOHN

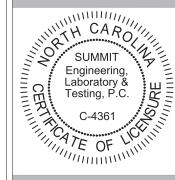
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D5f





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Bracing 21 glas Homes Trail, Suite 7, GA 30188 Details Details Smith Dougla 110 Village T Woodstock, C Framing Standard

2

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PRO1ECT # · 3832

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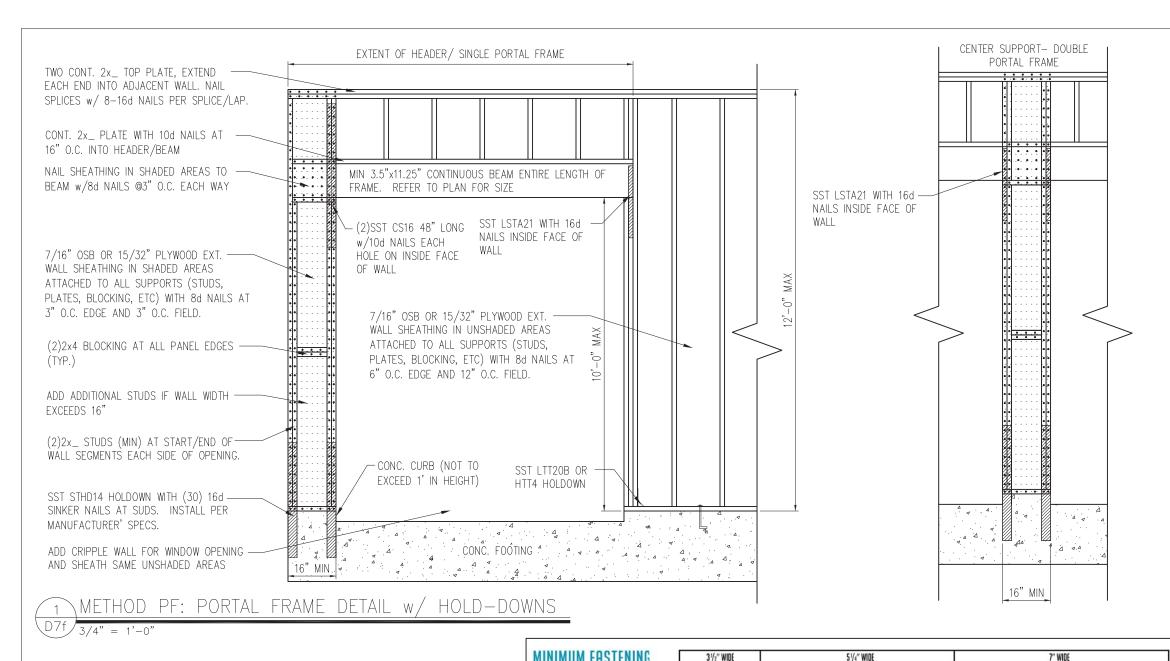
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SHEET

D6f



ELEVATION VIEW

MULTI-PLY BEAM CONNECTION DETAIL

SDS 1/4" x 6", WS6

5" TrussLok

6 3/4" TrussLok

- 2

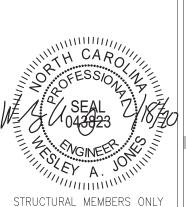
NOTES:

1. All fasteners must meet the minimum requirements in the table above. Side-loaded multiple-ply members must meet the minimum fastening and side-loading capacity requirements given on page 48.

2. Minimum fastening requirements for depths less than 71/4" require special consideration.

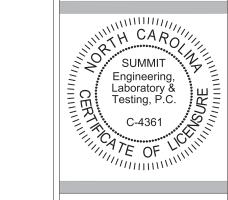
Please contact your technical representative

- 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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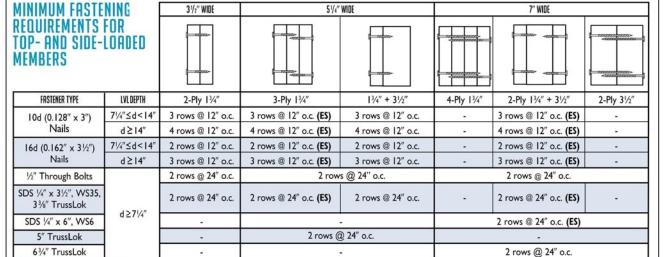
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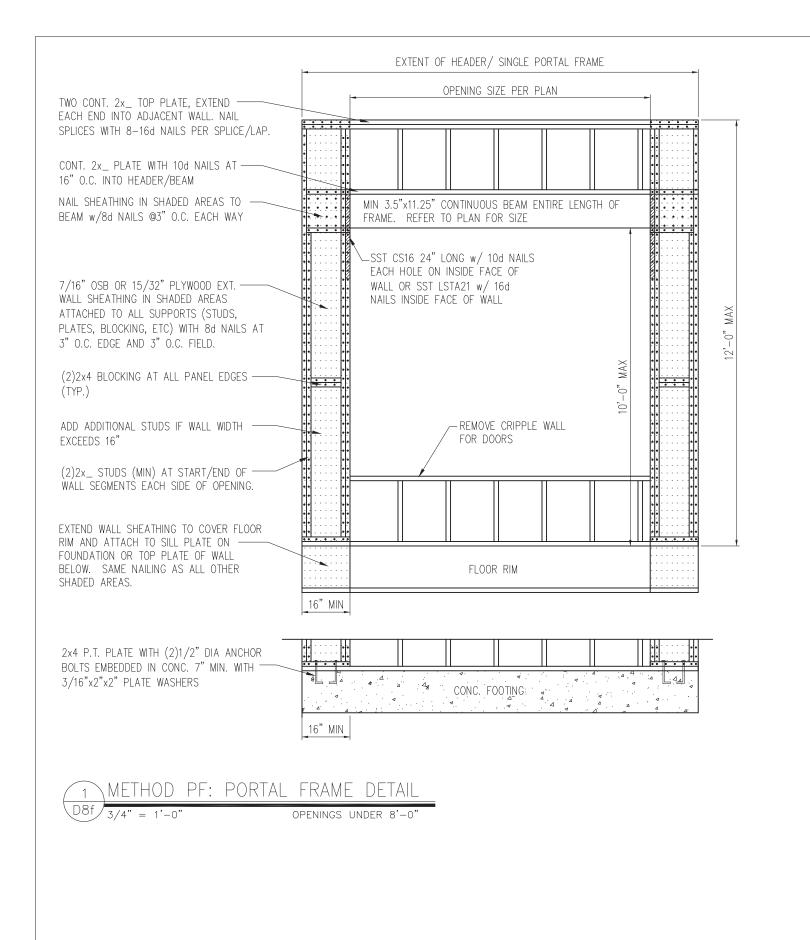
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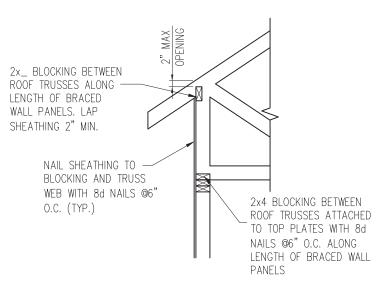
REFER TO COVER SHEET FOR A COMPLETE LIST OF REVISIONS

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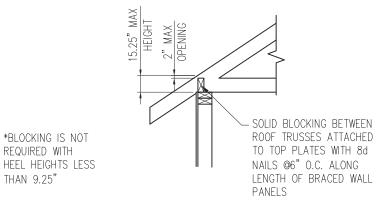
D7f







HEEL HEIGHT GREATER THAN 15.25"



HEEL HEIGHT LESS THAN 15.25" *

YP. WALL PANEL TO ROOF TRUSS CONNECTION

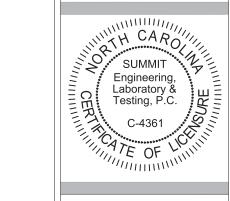
REQUIRED WITH

THAN 9.25"





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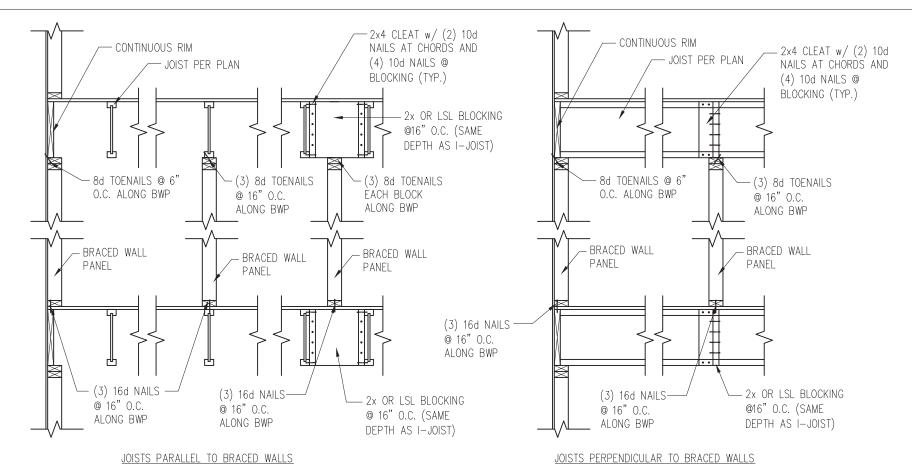
DATE PROJECT #

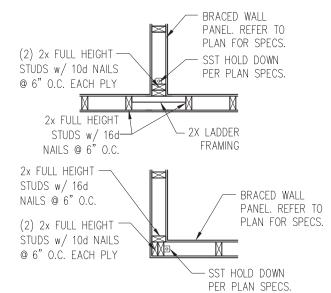
1/7/16 3832

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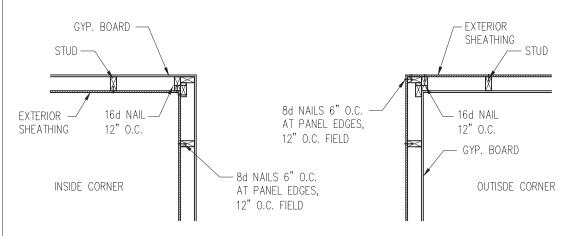
D8f

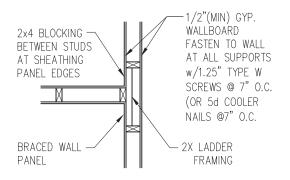




TYP. HOLD DOWN DETAIL
D9f 1" - 1' 0"

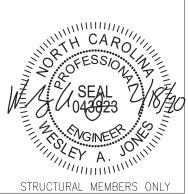
1 TYP. WALL PANEL TO FLOOR/CEILING CONNECTION D9f/1" = 1'-0"





TYP. EXTERIOR CORNER FRAMING

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





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C-4361

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SHEET

D9f

