

VININGS

CANE MILL ESTATES
LOT 2



PLAN ID: 022020

**110 VILLAGE TRAIL SUITE 215
WOODSTOCK, GA. 30188**

DRAWING INDEX

A0.0	COVER SHEET
A1.1	FRONT ELEVATION
A2.1	SIDE & REAR ELEVATIONS
A3.1	SLAB FOUNDATION
A5.1	FIRST FLOOR PLAN
A6.1	ROOF PLANS
A7.2	ELECTRICAL PLAN
A8.1	TRIM LOCATION LAYOUT

AREA TABULATION	
FIRST FLOOR	1819
TOTAL	1819
GARAGE	411
FRONT PORCH (COVERED)	144
REAR PATIO	200

PLAN REVISIONS

DATE	BY	REVISION	PAGE #
9/24/2018	MM	Added optional unfinished storage and finished Bonus Room. Removed wood burning F.P.	ALL
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

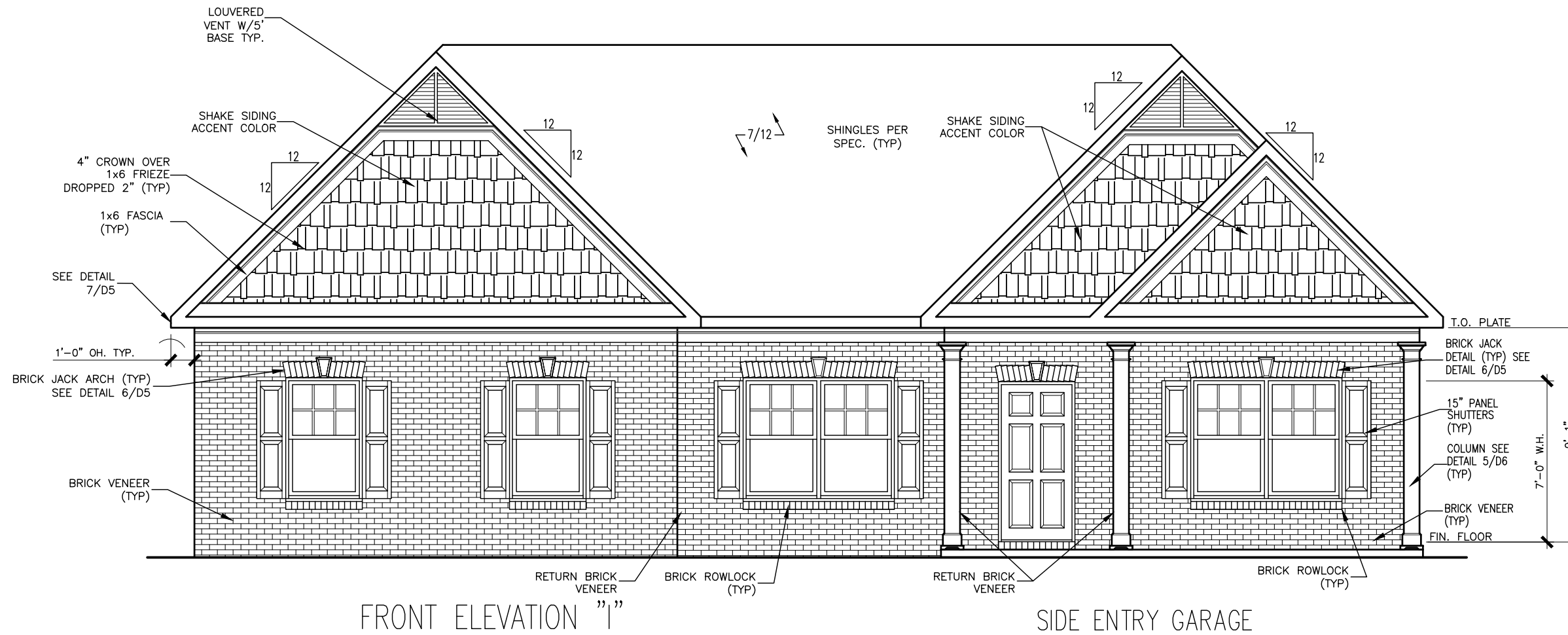
GOVERNMENTAL CODES & STANDARDS

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
--

CANE MILL ESTATES LOT 2



FRONT ELEVATION "1"

SIDE ENTRY GARAGE

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

BY	#	REVISION	DATE



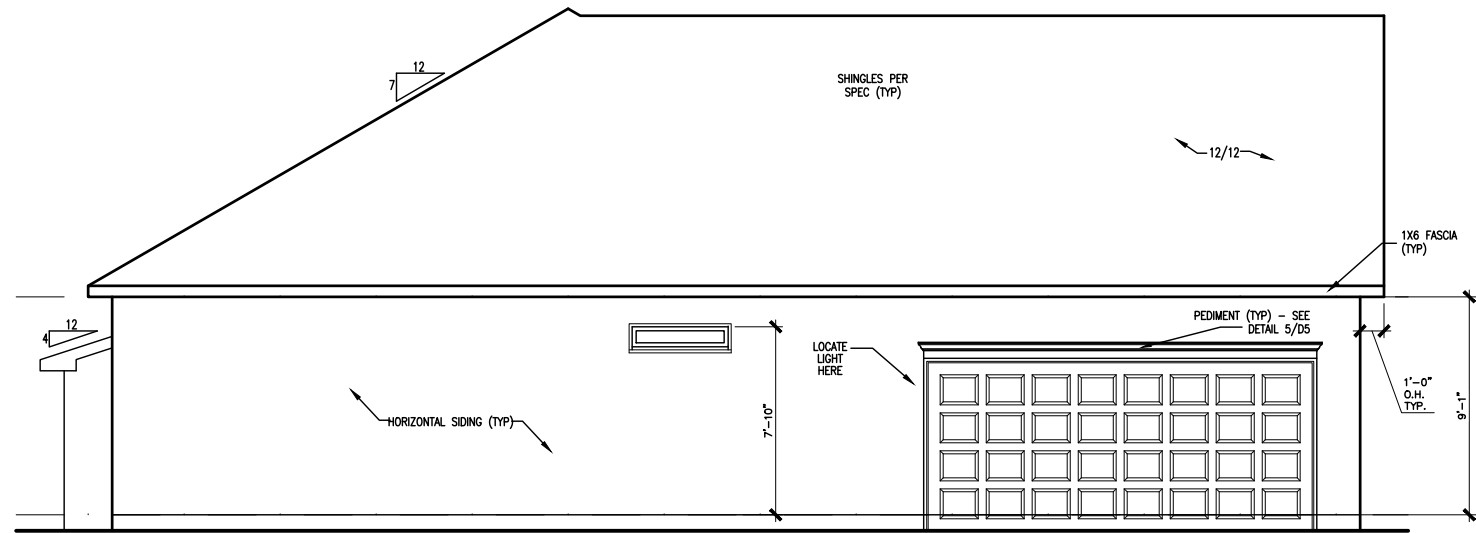
ELEVATIONS
FRONT ELEVATION
VININGS

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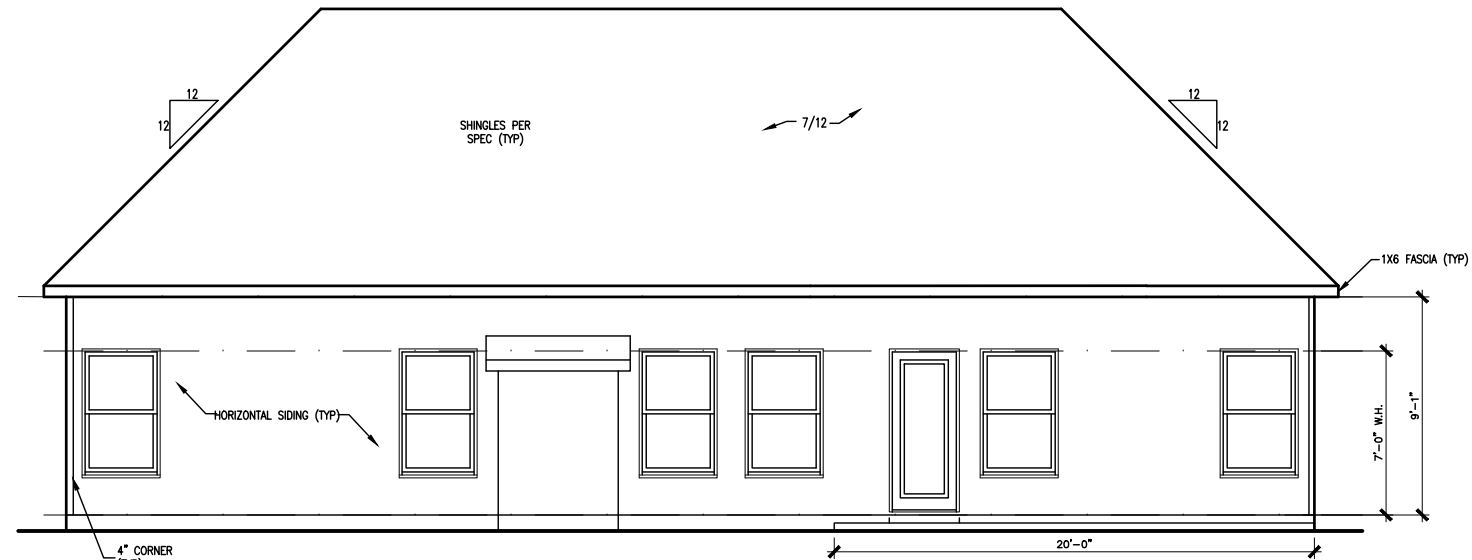
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CANE MILL ESTATES LOT 2



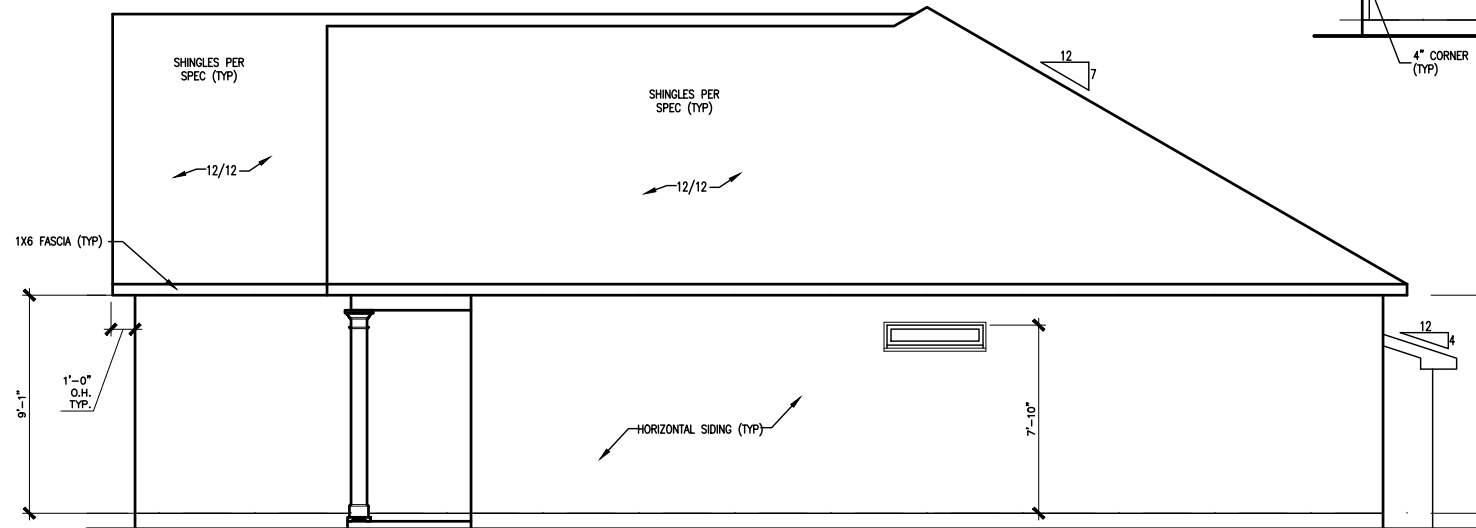
LEFT ELEVATION "1"

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



REAR ELEVATION "1"

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



RIGHT ELEVATION "1"

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

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DATE					



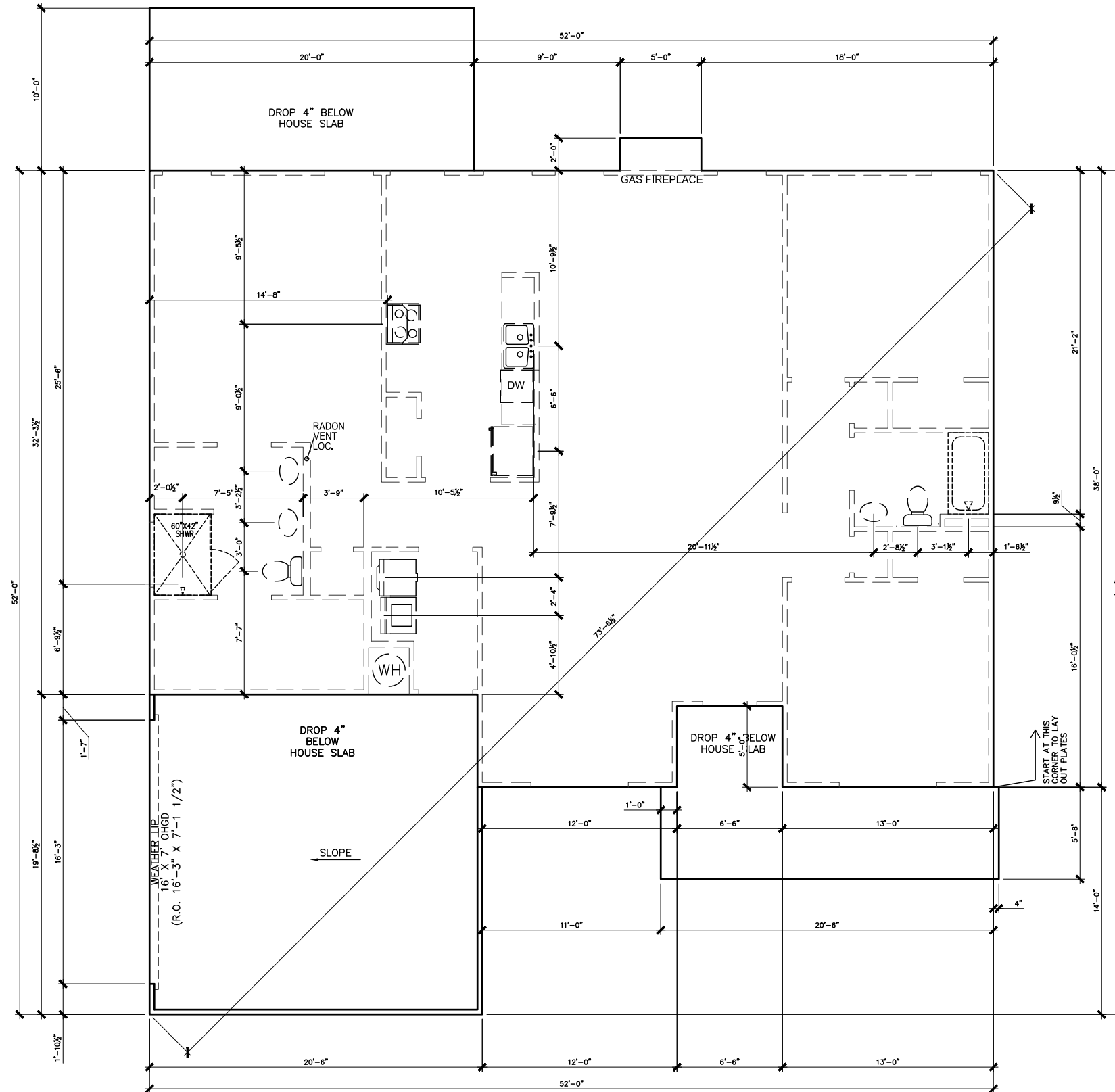
ELEVATIONS
SIDES & REAR
VININGS

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CANE MILL ESTATES LOT 2



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

SLAB PLAN

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

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QUALITY | INTEGRITY | VALUE

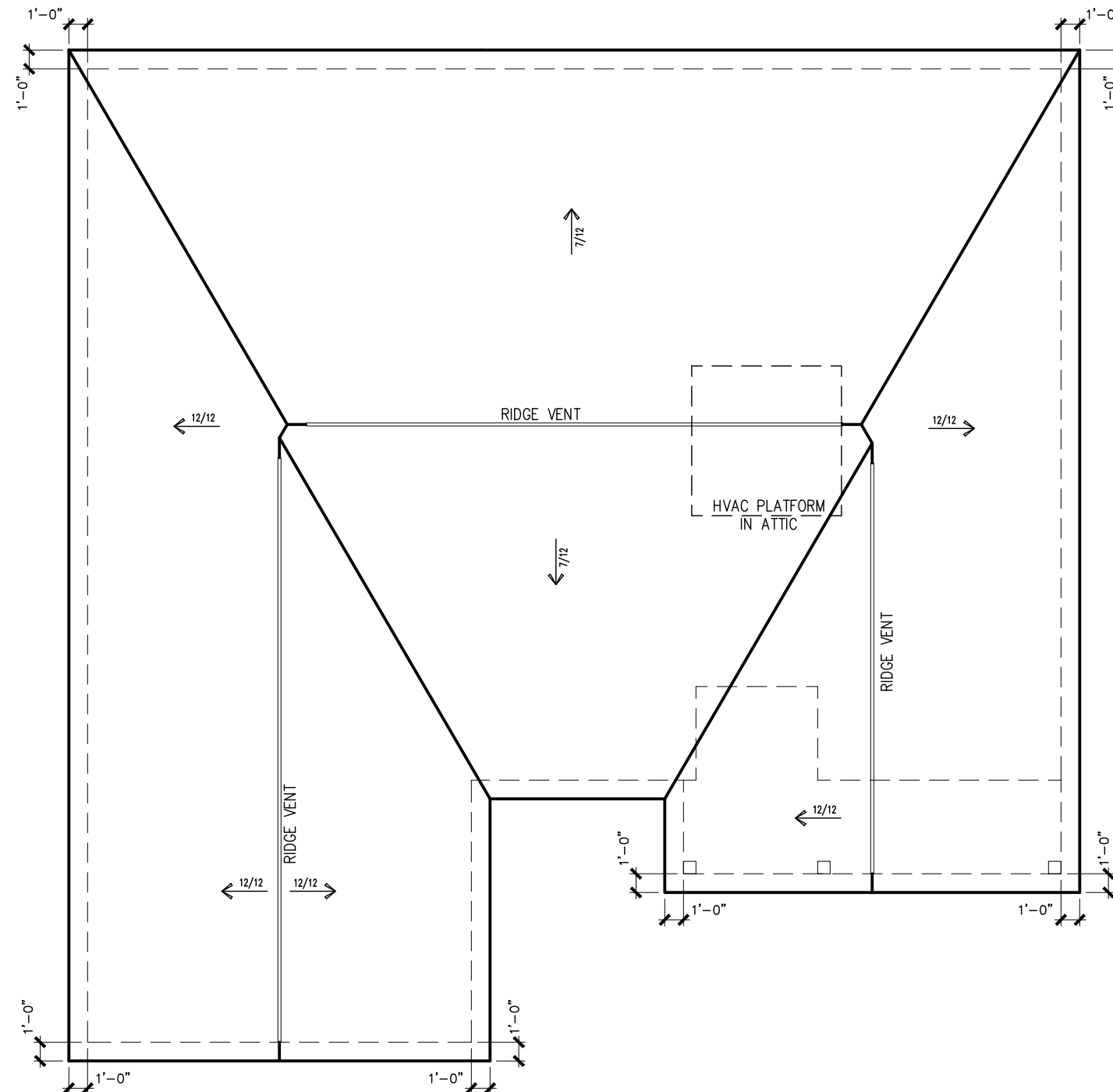
FOUNDATION PLAN
SLAB PLAN
VININGS

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CANE MILL ESTATES LOT 2



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

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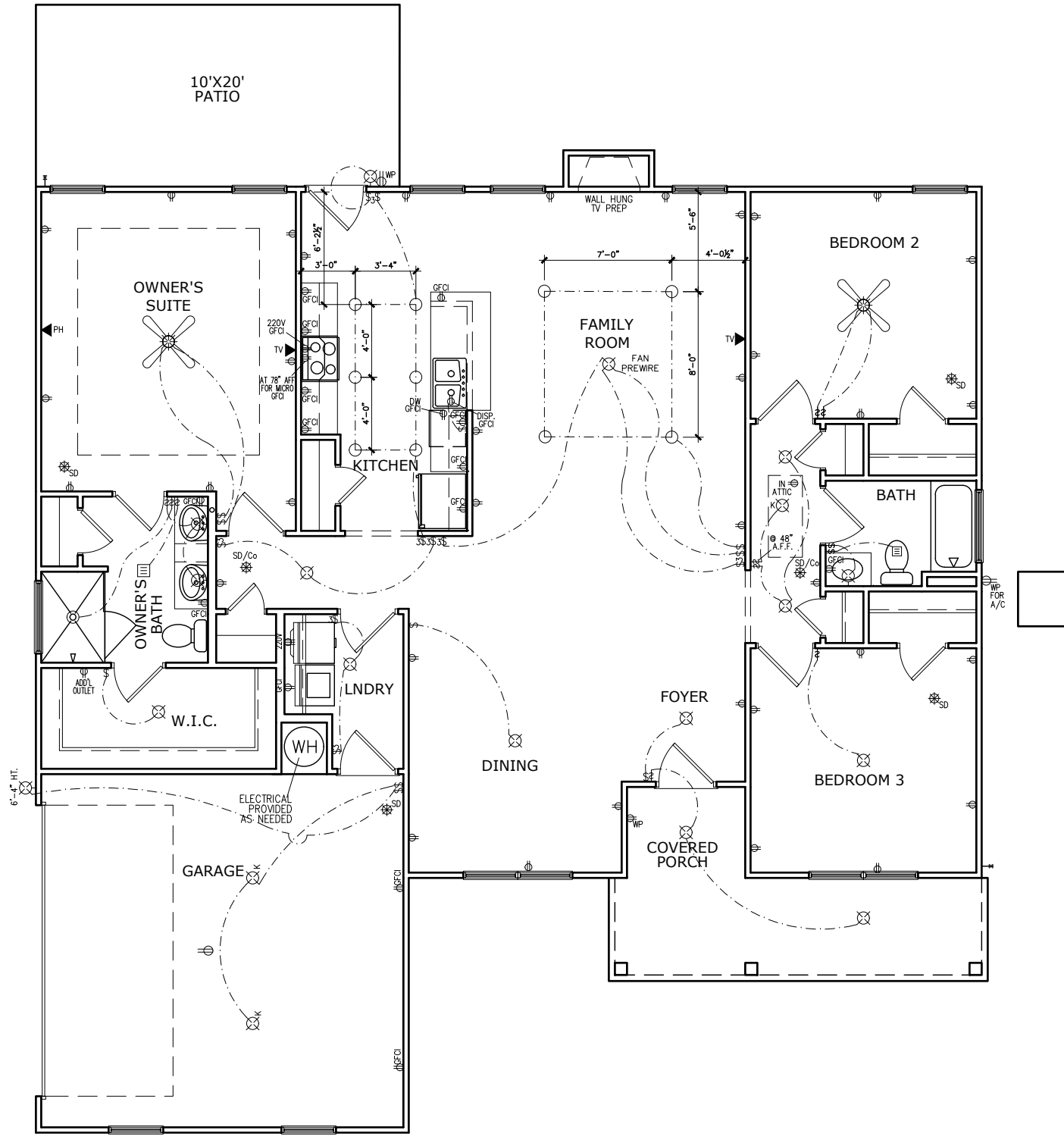
ROOF PLAN
ROOF LAYOUT
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CANE MILL ESTATES LOT 2



FIRST FLOOR ELECTRICAL PLAN

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

ELECTRICAL LEGEND

\$	SWITCH	TV	TV
\$3	3 WAY SWITCH	⊕	120V RECEPTACLE
\$4	4 WAY SWITCH	⊕	120V SWITCHED RECEPTACLE
⊗	CEILING FIXTURE	⊕	220V RECEPTACLE
⊕ _K	KEYLESS	⊕ _{GFCI}	GFCI OUTLET
⊗	WALL MOUNT FIXTURE	⊕ _{AFCI}	ARCH FAULT CIRCUIT INTERRUPTER
○	CEILING FIXTURE	† _{GL}	GAS LINE
●	FLEX CONDUIT	† _{WL}	WATER LINE
CH	CHIMES	↓	HOSE BIBB
PH	TELEPHONE	⊕	FLOOD LIGHT
SD/Cc	SMOKE DETECTOR & CARBON MONOXIDE	▭	1x4 LUMINOUS FIXTURE
SO	SECURITY OUTLET	⊗	CEILING FAN
□	GARAGE DOOR OPENER	—	ELECTRICAL WIRING
⊕	EXHAUST FAN	⊕	CEILING FIXTURE
⊕	FAN/LIGHT		

ELECTRICAL PLANS TO FOLLOW ALL LOCAL CODES

APPROX. FIXTURE HGTS (MEASURED FROM BOTTOM OF FIXTURE)

BREAKFAST/DINING ROOM	63" ABOVE FINISHED FLOOR
KITCHEN PENDANT LIGHTS	33" ABOVE COUNTER TOP
TWO STORY FOYER FIXTURE	96" ABOVE FINISHED FLOOR
CEILING FAN	96" ABOVE FINISHED FLOOR

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

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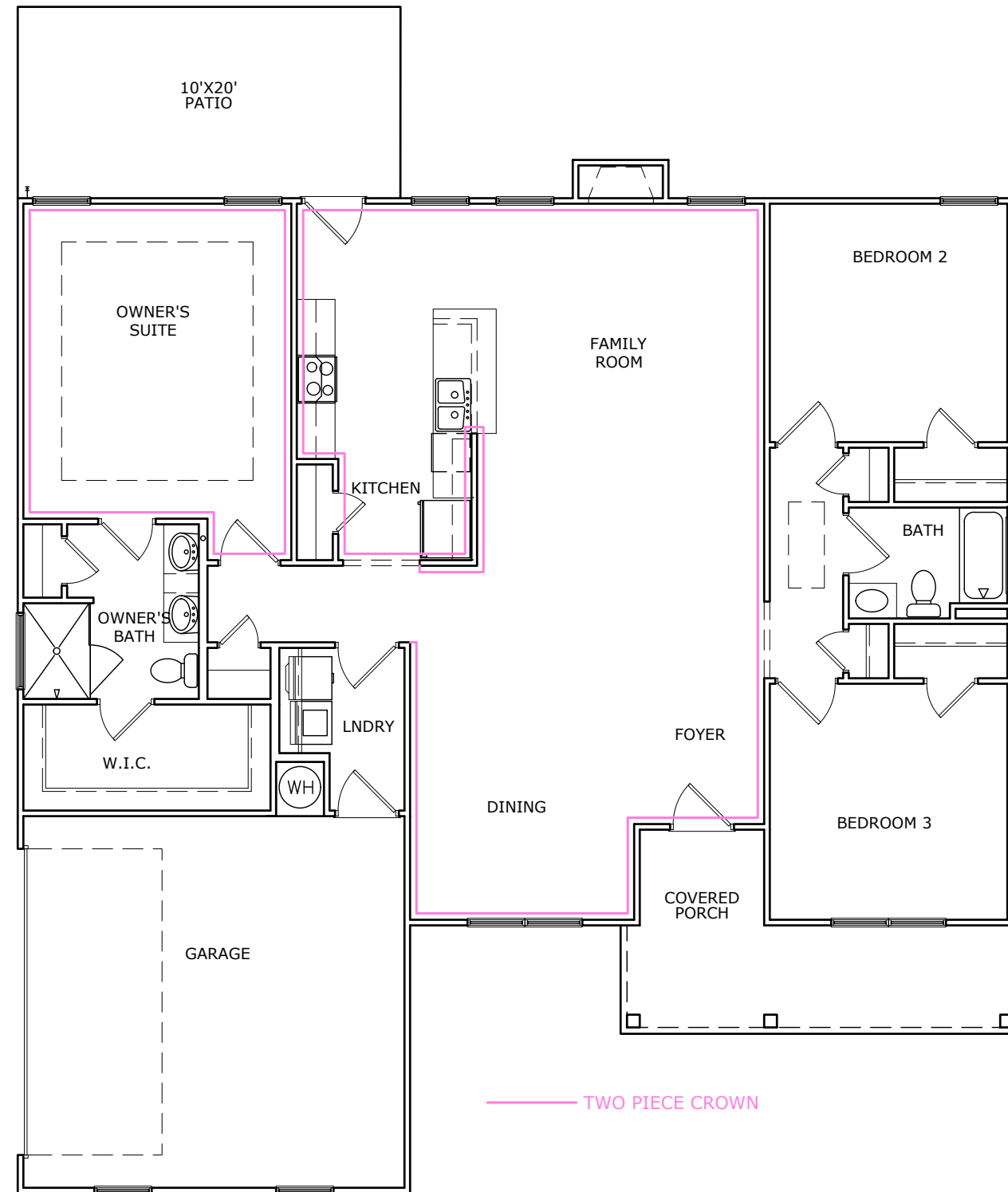
ELECTRICAL PLAN
FIRST FLOOR
VININGS

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FND:	ALL	ELEV:	1
PAGE NO:	A7.2		

CANE MILL ESTATES LOT 2



TRIM LAYOUT FIRST FLOOR PLAN

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

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FIRST FLOOR
TRIM LAYOUT
VININGS

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CANE MILL ESTATES LOT 2

Lot Definition		
Project: Cane Mill Estates	Community: Cane Mill Estates	
Building: 000	Builder: Thomas Kenneth Barlow	
Unit: 0002	Status: Sold	
Plan: Vinings 1 Ranch Side Entry	RTeam: Raleigh West	
Orientation: Garage Left	Sq. Ft.: 1,819	
Bedrooms: 3	Bathrooms: 2	
Address: 95 Planters Lane	Permit:	
Coats:	Notes:	
NC	27521	
Sales Data	Dates	
Contract: 90776	Ratified: 05/25/2021	
Buyer: Catherine Mutea Williams	Original Start: 06/18/2021	
Sales Agent: Nicole Stinard	Start: 06/25/2021	
	Scheduled Complete: 11/15/2021	
Option	Description	Quantity
1 Ceiling Fixture Light Wet or Dry	Add One Low Profile Flush Mount LED Light on One Single Switch. This Option can be used in a Wet or Dry Location. Locations to be noted on exhibit for Electrician. NOTE: Option cannot be used to replace light fixtures at a specific location.	1
2-Piece Crown in Main Living Area	Two-Piece Crown per Trim Plan Diagram locations.	1
2-Piece Crown in Owner Bedroom	Two-Piece Crown at Walls of Owner Bedroom. Does not include Tray Crown.	1
42" Cabinet 1st Upgr	Note: Bath cabinets to match	1
Add Int Ceiling Fan w/Light and PreWire	Additional Interior Ceiling fan, including Light Kit and fan Pre-wire. Includes credit of standard fixture. NOTE: Do not use this option for Family Room or Owner Bedroom, use room-specific options instead. ****INSIDE USE ONLY****	1
Addl Standard Interior Electric Outlet	Standard Interior Duplex Outlet. This is not an exterior weather proof outlet or a GFCI protected outlet. A quantity of 1 gives you one additional outlet.	1
Automatic Garage Door Opener	Garage Door Opener - Per Door	1
Blind per Optional 2030 Window	One 2030 blind. For use when you've added a 2030 optional window. See Optional Windows Sales Guide on the Process Model for assistance.	2
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
Brick 16 B ExtColPkg(I)		1
Cabinet Bump above Microwave	Cabinet Bump above Microwave	1
User Name: Victoria Wicker 1 of 3 06/22/2021		
Database: SmithDouglasCommunities 01:43:10 PM		

Lot Definition		
Cabinet Knob/Pull Combo	Cabinet Knob/Pull Hybrid-Element 1092 series-pulls on all drawers, knobs on all doors. Note: Bath cabinets to match	1
Ceiling Fan w/Light Owner Bedroom	Ceiling fan, including Light Kit. Does not include Prewire. This option is for use in Owner Bedrooms that are pre-wired standard but have no fan.	1
Family/Great Room Ceiling Fixture Lights	Family/Great Room Lights - Low Profile Flush Mount LED Lights per plan.	1
Fireplace in Family Room - Gas		1
FltPkg 5AA-Floorte Pro, StdCpt (FltPkg1)	Flooring Package 5AA - Floorte Pro, Standard Carpet (from Package 1). SPC (solid polymer core) 0.5 mm vinyl top layer plies	1
Kitchen Ceiling Fixture Lights ILO Std	Kitchen Lights - Low Profile Flush Mount LED Lights per Plan ILO Standard Light.	1
Level 3 - Package Electric (from E1)	Frigidaire SS 24" Dishwasher Frigidaire SS 1.6 Cu Ft. Micro Frigidaire SS 30" Elec Range-Self Clean	1
Nickel Interior Finish Color Package	NOTE: If Laminate Kitchen top, Upgrade Kit Faucet or it remains Chrome. Includes SS kitchen faucet, brushed nickel bath faucets & fixtures & door hardware (handles, knobs/levers, deadbolts), Plug(In) light fixtures, pewter oval mirror. Separate options also affected: shower door, bath hardware (towel bar/ring, tp holder), shower grab bar, cabinet hardware	1
Owner Bath Marble 1 Double Ilo LamSgl	****includes Vanity Double Bowl Option Do Not Select Both****	1
Patio Large Ilo 3x3 Rear Stoop	Expand 3x3 rear stoop to 10x20 concrete patio (size may vary, dimensions are per plan drawing). ****if selecting a covered patio, do not select this option****	1
Screens Base House Single Family	Add window screens to all operable standard windows on single family home. NOTE: Does not include screens for windows for optional-2nd-floors, side entry garage, or windows added or changed from structural options, optional windows, or basement windows. See additional options to complete screens.	1
Shwr Only Wall T2 Large Pan FD OBATHC	(Large shower with level 2 tile walls and framed clear glass door ILO of standard large prefab shower. Prefab pan per plan. (obathc))	1
Solid Surface-Kitchen Countertops (I)	Kitchen Solid Surface Countertops from Laminate	1
Solid Surface-Kitchen Sink Level 1	Level 1 Undermount rectangular stainless steel sink upgrade for kitchen solid surface.	1
Tray Ceiling - Owner's Bedroom		1
Vent Microwave/Hood Combo to Outside	Vent the Microwave/Hood Combo to Outside. NOTE: Must be used with option Cabinet Bump above Microwave. If Cabinet Bump above Microwave is not standard, the option MUST be chosen.	1
Wall Hung TV Prep	Flat panel TV prep with satellite connections. Conduit from outlet height to TV Mount Height at locations noted. NOTE: Does not include additional Cable connection.	1
Window Above Hall Bath TubShower		1
User Name: Victoria Wicker 2 of 3 06/22/2021		
Database: SmithDouglasCommunities 01:43:10 PM		

Lot Definition		
Activity	Description	Selection Description
Ceramic Tile Set - Bath	TILEBath/ShwrWalls-2ndUpgr ALL	Serenity Bone 100 (13x13)Silver00030
Del&Install AppliancePkg	Appliance Package Select - All	Appliance Package Selected
Deliver & Install Blinds	Blind Color	White
Install Cabinets Complet	Cabinet Finish - Upgrade 1Aris	1st-Upg-Sinclair Birch- Umber
Install Cabinets Complet	Secondary Bath Vanity Tops-All	5001K-07 Pearl Sequoia
Install Carpet	Carpet - Standard ALL	Smith Grove II Glimmer 00501
Install Floorte Pro (LP)	Floorte Pro 1stUpgr ALL	Presto Plus - 405 Whispering Wood
Install Marble Tops	RDU Marble Vanity Top Lvl 1	Matte-#190 White w/Parchment w/oval bowl
Install SolidSurfaceTops	Rectangular SS sink LVL 1	5050 Double Bowl Sink
Install SolidSurfaceTops	Solid Surface LVL1-Raleigh	Datille Quartz- Chipped Ice-NQ91
Paint Interior Complete	Interior Paint (Trim)	SW 7006 Extra White
Paint Interior Complete	Interior Paint (Walls) - Base	SW 8917 Shell White
PM Install Vinyl Floor	VinylPkg-Owner Bath	Highlands Stronghold 529
PM Install Vinyl Floor	VinylPkg-Std 2nd Baths/Laundry	Highlands Stronghold 529
User Name: Victoria Wicker 3 of 3 06/22/2021		
Database: SmithDouglasCommunities 01:43:10 PM		

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DETAILS
LOT DEFINITION
VININGS

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PAGE NO: A9.1	



PROJECT
Vining (LH)
Coversheet
Client
Smith Douglas Homes - Raleigh
2520 Reliance Ave
Apex, NC 27539

CURRENT DRAWING
DATE: 10/12/09
SCALE: 1/8"=1'-0"
PROJECT #: 383226R2
DRAIN BY: MEB
CHECKED BY: ONB
ORIGINAL DRAWING
DATE PROJECT #
08/07/2008 383226R2

REFER TO COVER SHEET FOR A COMPLETE LIST OF REVISIONS

SHEET

CS2

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 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:

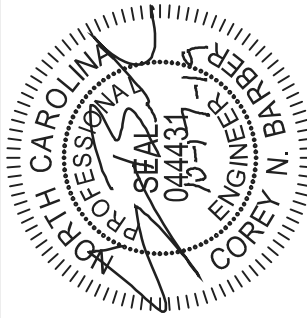
- Fabrication and placement of structural fiberboard sheathing shall be in accordance with the applicable APA standards.
- Fiberboard wall sheathing shall comply with the requirements of local building codes for the appropriate state as indicated on these drawings. Refer to wall bracing notes in plan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

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.

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 D.11. Electrodes for shop and field welding shall be class E70XX. All welding shall be performed by a certified welder per the above standards.



Cane Mill
Lot 2

STRUCTURAL MEMBERS ONLY

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:
2.1. E = 19000000 psi
2.2. Fb = 2600 psi
2.3. Fv = 285 psi
2.4. Fc = 100 psi
- Wood in contact with concrete, masonry, or earth shall be pressure treated in accordance with ALFA standard C-15. All other moisture exposed wood shall be treated in accordance with ALFA standard C-2
- Nails shall be common wire nails unless otherwise noted.
Lag screws shall conform to ANSI/ASME standard B18.2.1-1981.
Lead holes for lag screws shall be in accordance with NDS specifications.
- 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.
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 fully blocked at all floor levels to ensure proper load transfer.
- Multi-ply beams shall have each ply attached with (3)10d nails # 24" O.C.
- Flitch beams and four and five ply beams shall be bolted together with (2) rows of 1/2" dia. through bolts staggered #7.4" O.C. w/ 2" edge distance and (2) bolts located at 6" from each end, unless noted otherwise.

WOOD TRUSSES:

- 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-5). 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.

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 4% of target values as follows:
3.1. Footings: 5%
3.2. Exterior Slabs: 5%
3.3. 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 302.1R-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.
- All welded wire fabric (WWF) for concrete slabs-on-grade shall be placed at mid-depth of slab. The WWF shall be securely supported during the concrete pour. Fibermesh may be used in lieu of WWF.

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 C116, 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.
- Detailing, fabrication, and placement of reinforcing steel shall be in accordance with the latest edition of ACI 318: "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 masonry shall be a minimum of 48 bar diameters.
- 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.
- Where reinforcing steel is required vertically, dowels shall be provided unless otherwise noted.

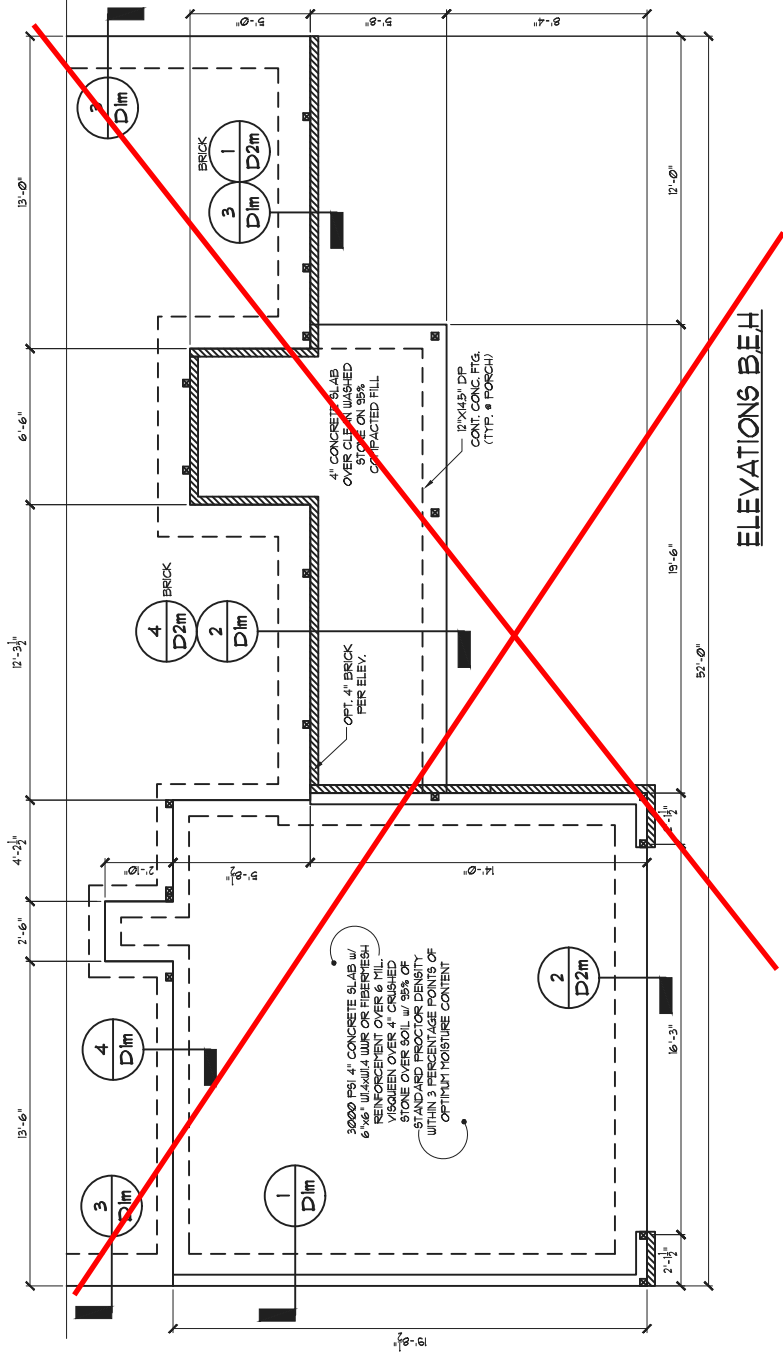
GENERAL STRUCTURAL NOTES:

- 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 this structure. No 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 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.
- 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.
- 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.
- 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.
- 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 2008 North Carolina Residential Code (NRC) and any local codes or restrictions

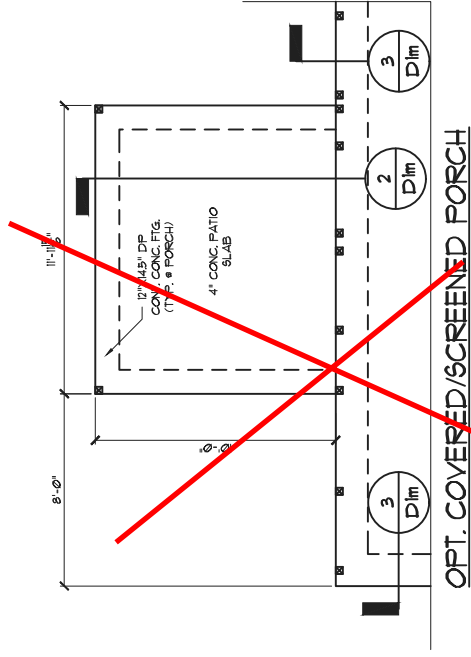
FOUNDATIONS:

- Foundations shall be constructed in accordance with chapter 4 of the 2008 NC Residential Building Code (Special consideration shall be given to Chapter 45 in wind zones above 150mph)
- 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 2008 NRC
- 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.
- 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.
- 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.
- No concrete shall be placed against any subgrade containing water, ice, frost, or loose material.
- Each crawl space pier shall bear in the middle third of its respective footing and each girder shall bear in the middle third of the piers. Plasters to be bonded to perimeter foundation wall
- 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
- Energy efficiency compliance and insulation of the structure to be in accordance with chapter 11 of the 2008 NRC

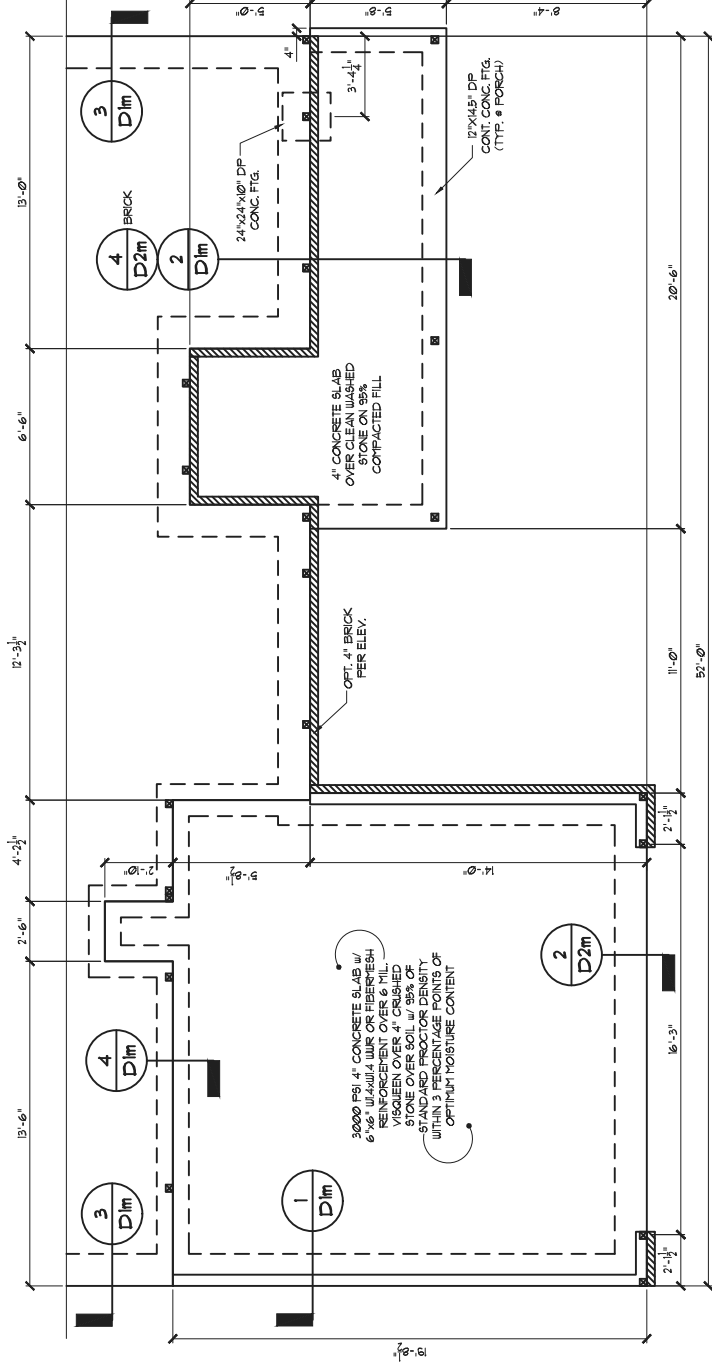
SEE SHEET S1.0m FOR NOTES
AND MORE INFORMATION



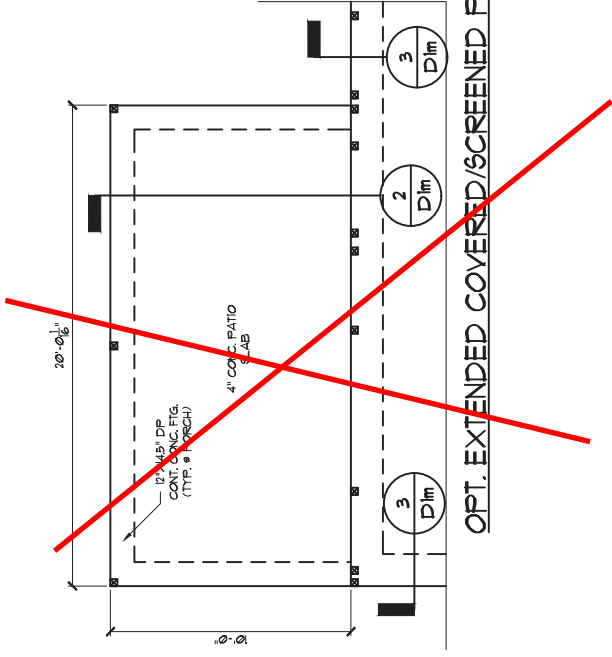
ELEVATIONS BEH



OPT. COVERED/SCREENED PORCH



ELEVATIONS CFI



OPT. EXTENDED COVERED/SCREENED PORCH

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 SUMMIT
ENGINEERING, LABORATORY & TESTING, P.C. FAILURE
TO DO SO WILL VOID SUMMIT LIABILITY.

STRUCTURAL ANALYSIS BASED ON 2016 NCRC.

MONOLITHIC SLAB FOUNDATION
SCALE: 1/8"=1'

Cane Mill
Lot 2



STRUCTURAL MEMBERS ONLY

HEADER TAG	BEAM TAG	SIZE	JACKS (EACH END)
-	B1	(10) 14" FLOOR JOIST	(2)
-	B2	(2) 14" FLOOR JOIST	(0)
-	A	(1)	(1)
-	B	(2)	(2)
-	C	(3)	(3)
-	D	(4)	(4)
-	E	(5)	(5)
-	F	(6)	(6)
-	G	(7)	(7)
-	H	(8)	(8)
-	I	(9)	(9)
-	J	(10)	(10)
-	K	(11)	(11)
-	L	(12)	(12)
-	M	(13)	(13)
-	N	(14)	(14)
-	O	(15)	(15)
-	P	(16)	(16)

TAG	SIZE	OPENING SIZE	LEGS	SPAN
①	L3x3x1/4"	6'-0" TO 10'-0"	2"	10'-0"
②	L3x3x1/4"	6'-0" TO 10'-0"	2"	10'-0"
③	L3x3-1/2x5/16"	GREATER THAN 10'-0"	2"	10'-0"
④	L3x3-1/2x5/16"	GREATER THAN 10'-0"	2"	10'-0"

SECURE LINTEL TO HEADER w/ (2) 1/2" DIAMETER LAG SCREWS STAGGERED @ 16"
ALL HEADERS WITH BRICK ABOVE: (U)NO

STUD TAG	SIZE	OPENING SIZE	LEGS	SPAN
1	2x4 STUDS @ 24" OC	24" OC	2"	10'-0"
2	2x4 STUDS @ 16" OC	16" OC	2"	10'-0"
3	2x4 STUDS @ 12" OC	12" OC	2"	10'-0"
4	2x4 STUDS @ 8" OC	8" OC	2"	10'-0"
5	2x4 STUDS @ 6" OC	6" OC	2"	10'-0"
6	2x4 STUDS @ 4" OC	4" OC	2"	10'-0"
7	2x4 STUDS @ 3" OC	3" OC	2"	10'-0"
8	2x4 STUDS @ 2" OC	2" OC	2"	10'-0"
9	2x4 STUDS @ 1" OC	1" OC	2"	10'-0"
10	2x4 STUDS @ 1/2" OC	1/2" OC	2"	10'-0"
11	2x4 STUDS @ 3/4" OC	3/4" OC	2"	10'-0"
12	2x4 STUDS @ 5/8" OC	5/8" OC	2"	10'-0"
13	2x4 STUDS @ 7/8" OC	7/8" OC	2"	10'-0"
14	2x4 STUDS @ 1" OC	1" OC	2"	10'-0"
15	2x4 STUDS @ 1 1/8" OC	1 1/8" OC	2"	10'-0"
16	2x4 STUDS @ 1 1/4" OC	1 1/4" OC	2"	10'-0"
17	2x4 STUDS @ 1 3/8" OC	1 3/8" OC	2"	10'-0"
18	2x4 STUDS @ 1 1/2" OC	1 1/2" OC	2"	10'-0"
19	2x4 STUDS @ 1 5/8" OC	1 5/8" OC	2"	10'-0"
20	2x4 STUDS @ 1 3/4" OC	1 3/4" OC	2"	10'-0"
21	2x4 STUDS @ 1 7/8" OC	1 7/8" OC	2"	10'-0"
22	2x4 STUDS @ 2" OC	2" OC	2"	10'-0"
23	2x4 STUDS @ 2 1/8" OC	2 1/8" OC	2"	10'-0"
24	2x4 STUDS @ 2 1/4" OC	2 1/4" OC	2"	10'-0"
25	2x4 STUDS @ 2 3/8" OC	2 3/8" OC	2"	10'-0"
26	2x4 STUDS @ 2 1/2" OC	2 1/2" OC	2"	10'-0"
27	2x4 STUDS @ 2 5/8" OC	2 5/8" OC	2"	10'-0"
28	2x4 STUDS @ 2 3/4" OC	2 3/4" OC	2"	10'-0"
29	2x4 STUDS @ 2 7/8" OC	2 7/8" OC	2"	10'-0"
30	2x4 STUDS @ 3" OC	3" OC	2"	10'-0"
31	2x4 STUDS @ 3 1/8" OC	3 1/8" OC	2"	10'-0"
32	2x4 STUDS @ 3 1/4" OC	3 1/4" OC	2"	10'-0"
33	2x4 STUDS @ 3 3/8" OC	3 3/8" OC	2"	10'-0"
34	2x4 STUDS @ 3 1/2" OC	3 1/2" OC	2"	10'-0"
35	2x4 STUDS @ 3 5/8" OC	3 5/8" OC	2"	10'-0"
36	2x4 STUDS @ 3 3/4" OC	3 3/4" OC	2"	10'-0"
37	2x4 STUDS @ 3 7/8" OC	3 7/8" OC	2"	10'-0"
38	2x4 STUDS @ 4" OC	4" OC	2"	10'-0"
39	2x4 STUDS @ 4 1/8" OC	4 1/8" OC	2"	10'-0"
40	2x4 STUDS @ 4 1/4" OC	4 1/4" OC	2"	10'-0"
41	2x4 STUDS @ 4 3/8" OC	4 3/8" OC	2"	10'-0"
42	2x4 STUDS @ 4 1/2" OC	4 1/2" OC	2"	10'-0"
43	2x4 STUDS @ 4 5/8" OC	4 5/8" OC	2"	10'-0"
44	2x4 STUDS @ 4 3/4" OC	4 3/4" OC	2"	10'-0"
45	2x4 STUDS @ 4 7/8" OC	4 7/8" OC	2"	10'-0"
46	2x4 STUDS @ 5" OC	5" OC	2"	10'-0"
47	2x4 STUDS @ 5 1/8" OC	5 1/8" OC	2"	10'-0"
48	2x4 STUDS @ 5 1/4" OC	5 1/4" OC	2"	10'-0"
49	2x4 STUDS @ 5 3/8" OC	5 3/8" OC	2"	10'-0"
50	2x4 STUDS @ 5 1/2" OC	5 1/2" OC	2"	10'-0"
51	2x4 STUDS @ 5 5/8" OC	5 5/8" OC	2"	10'-0"
52	2x4 STUDS @ 5 3/4" OC	5 3/4" OC	2"	10'-0"
53	2x4 STUDS @ 5 7/8" OC	5 7/8" OC	2"	10'-0"
54	2x4 STUDS @ 6" OC	6" OC	2"	10'-0"
55	2x4 STUDS @ 6 1/8" OC	6 1/8" OC	2"	10'-0"
56	2x4 STUDS @ 6 1/4" OC	6 1/4" OC	2"	10'-0"
57	2x4 STUDS @ 6 3/8" OC	6 3/8" OC	2"	10'-0"
58	2x4 STUDS @ 6 1/2" OC	6 1/2" OC	2"	10'-0"
59	2x4 STUDS @ 6 5/8" OC	6 5/8" OC	2"	10'-0"
60	2x4 STUDS @ 6 3/4" OC	6 3/4" OC	2"	10'-0"
61	2x4 STUDS @ 6 7/8" OC	6 7/8" OC	2"	10'-0"
62	2x4 STUDS @ 7" OC	7" OC	2"	10'-0"
63	2x4 STUDS @ 7 1/8" OC	7 1/8" OC	2"	10'-0"
64	2x4 STUDS @ 7 1/4" OC	7 1/4" OC	2"	10'-0"
65	2x4 STUDS @ 7 3/8" OC	7 3/8" OC	2"	10'-0"
66	2x4 STUDS @ 7 1/2" OC	7 1/2" OC	2"	10'-0"
67	2x4 STUDS @ 7 5/8" OC	7 5/8" OC	2"	10'-0"
68	2x4 STUDS @ 7 3/4" OC	7 3/4" OC	2"	10'-0"
69	2x4 STUDS @ 7 7/8" OC	7 7/8" OC	2"	10'-0"
70	2x4 STUDS @ 8" OC	8" OC	2"	10'-0"
71	2x4 STUDS @ 8 1/8" OC	8 1/8" OC	2"	10'-0"
72	2x4 STUDS @ 8 1/4" OC	8 1/4" OC	2"	10'-0"
73	2x4 STUDS @ 8 3/8" OC	8 3/8" OC	2"	10'-0"
74	2x4 STUDS @ 8 1/2" OC	8 1/2" OC	2"	10'-0"
75	2x4 STUDS @ 8 5/8" OC	8 5/8" OC	2"	10'-0"
76	2x4 STUDS @ 8 3/4" OC	8 3/4" OC	2"	10'-0"
77	2x4 STUDS @ 8 7/8" OC	8 7/8" OC	2"	10'-0"
78	2x4 STUDS @ 9" OC	9" OC	2"	10'-0"
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80	2x4 STUDS @ 9 1/4" OC	9 1/4" OC	2"	10'-0"
81	2x4 STUDS @ 9 3/8" OC	9 3/8" OC	2"	10'-0"
82	2x4 STUDS @ 9 1/2" OC	9 1/2" OC	2"	10'-0"
83	2x4 STUDS @ 9 5/8" OC	9 5/8" OC	2"	10'-0"
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85	2x4 STUDS @ 9 7/8" OC	9 7/8" OC	2"	10'-0"
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87	2x4 STUDS @ 10 1/8" OC	10 1/8" OC	2"	10'-0"
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182	2x4 STUDS @ 22" OC	22" OC	2"	10'-0"
183	2x4 STUDS @ 22 1/8" OC	22 1/8" OC	2"	

SEE SHEET S3.0 FOR NOTES AND MORE INFORMATION

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

SUMMIT
Engineering,
Laboratory &
Testing, P.C.
C-4361

PROJECT
Yinings (LH)
First Floor Framing
CLIENT
Smith Douglas Homes - Raleigh
2520 Reliance Ave
Apex, NC 27539

CURRENT DRAWING
DATE: 10/17/2019
SCALE: 1/8"=1'-0"
PROJECT #: 383226R2
DRAIN BY: MEB
CHECKED BY: CNB
ORIGINAL DRAWING
DATE PROJECT #
08/07/2018 3832154

REFER TO COVER SHEET FOR A COMPLETE LIST OF REVISIONS

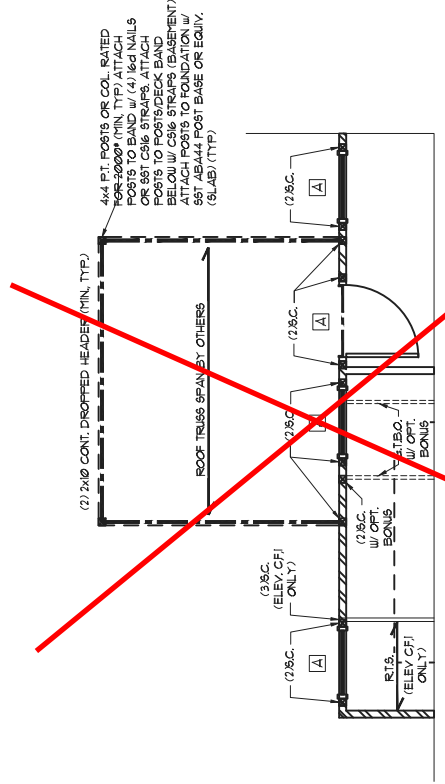
SHEET

S3.3

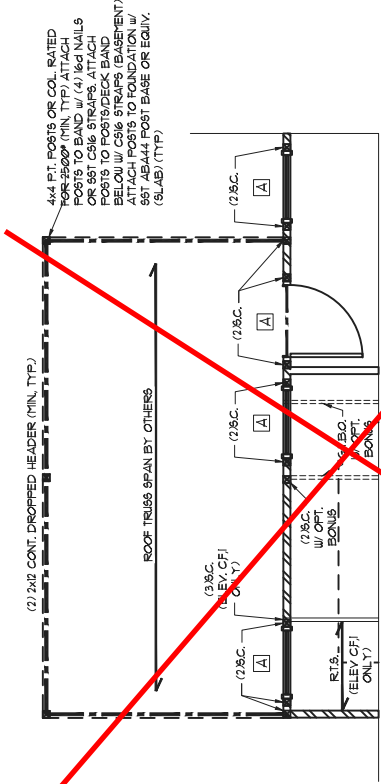
COREY N. BARBER
PROFESSIONAL ENGINEER
044431
NORTH CAROLINA

STRUCTURAL MEMBERS ONLY

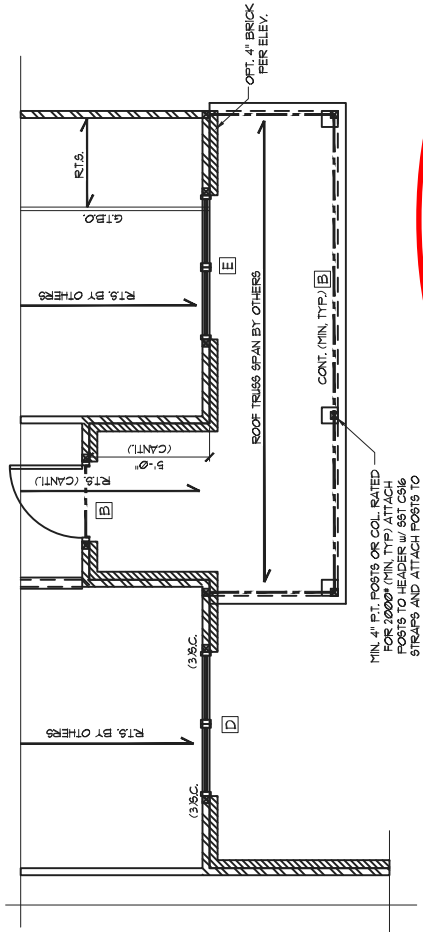
Cane Mill
Lot 2



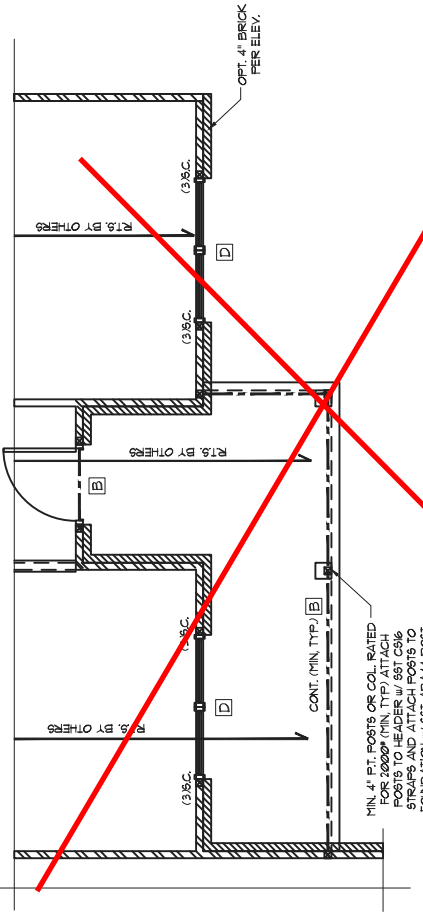
~~OPT. COVERED/SCREENED PORCH~~



~~OPT. EXTENDED COVERED/SCREENED PORCH~~



ELEVATIONS C.F.I.



~~ELEVATIONS BEH~~

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STRUCTURAL ANALYSIS BASED ON 2016 NCR. C.

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

TRUSS UPLIFT CONNECTOR SCHEDULE			
MAX UPLIFT	ROOF TO WALL	FLOOR TO FLOOR	FLOOR TO RD
595 LBS	H2BA	PER WALL SHEATHING & FASTENERS	
1970 LBS	(2) H2BA	C2K (END • B')	DTTZ
1248 LBS	H1B50	C2K (END • B')	DTTZ
1702 LBS	(2) H1B50	(2) C2K (END • B')	DTTZ
2490 LBS	(2) H1B50	(2) C2K (END • B')	HT4
2949 LBS	LGT3-S2B3	(2) C2K (END • B')	HT4

1. ALL PRODUCTS LISTED ARE STRONG-TIE EQUIVALENT PRODUCTS THAT MAY BE USED PER MANUFACTURER'S SPECIFICATIONS.
2. REFER TO TRUSS LAYOUT PER MANUFACTURER'S TRUSS CONNECTIONS SPECIFIED BY TRUSS MANUFACTURER TO OVERRIDE THOSE LISTED ABOVE.
3. CONTACT SUPPLIER FOR REQUIRED CONNECTIONS WHEN LOADS EXCEED THOSE LISTED ABOVE.

NOTE: 8FT RLY 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 MANUFACTURER IN ACCORDANCE WITH SECTION 1803.01 WALL SHEATHING AND FASTENERS HAVE BEEN DESIGNED TO RESIST THE WIND UPLIFT LOAD WITH IN ACCORDANCE WITH METHODS OF SECTION 1803.01 OF THE 2016 IRC. BRACED WALL PLANS FOR SHEATHING AND FASTENER REQUIREMENTS.

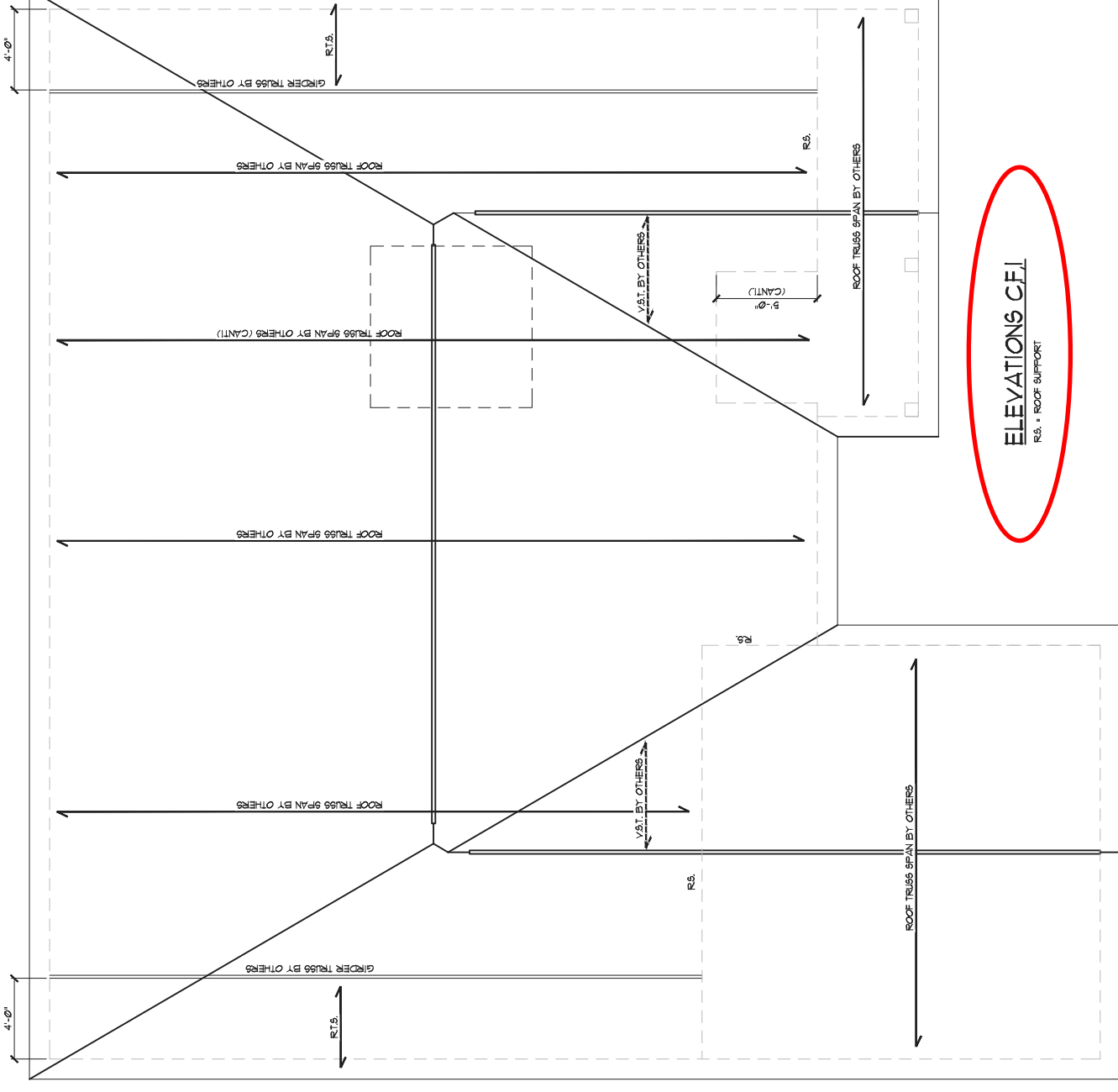
THESE PLANS ARE DESIGNED IN ACCORDANCE WITH ARCHITECTURAL PLANS DATED 08/11/2016. THE DESIGN IS THE RESPONSIBILITY OF THE CLIENT TO NOTIFY SUMMIT ENGINEERING, LABORATORY & TESTING, P.C. IF ANY CHANGES ARE MADE TO THE ARCHITECTURAL PLANS PRIOR TO CONSTRUCTION. SUMMIT ENGINEERING, LABORATORY & TESTING, P.C. CANNOT BE HELD RESPONSIBLE FOR ANY CHANGES TO THE ARCHITECTURAL PLANS DATED DIFFERENTLY THAN THE DATE LISTED ABOVE.

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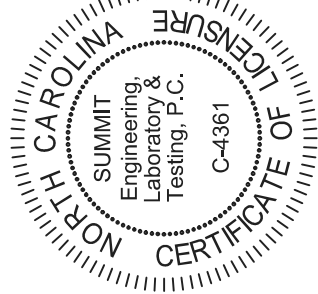
STRUCTURAL ANALYSIS BASED ON 2016 NCRC.

ROOF FRAMING PLAN

SCALE: 1/8"=1'



ELEVATIONS C.F.I.
R.S. • ROOF SUPPORT



PROJECT Vinyngs (LH)
CLIENT Smith Douglas Homes - Raleigh
2520 Reliance Ave
Apex, NC 27539

CURRENT DRAWING
DATE: 10/17/2019
SCALE: 1/8"=1'-0"
PROJECT #: 3832226R2
DRAIN BY: MEB
CHECKED BY: CNB

ORIGINAL DRAWING
DATE PROJECT #
08/07/2018 3832154

REFER TO COVER SHEET FOR A COMPLETE LIST OF REVISIONS

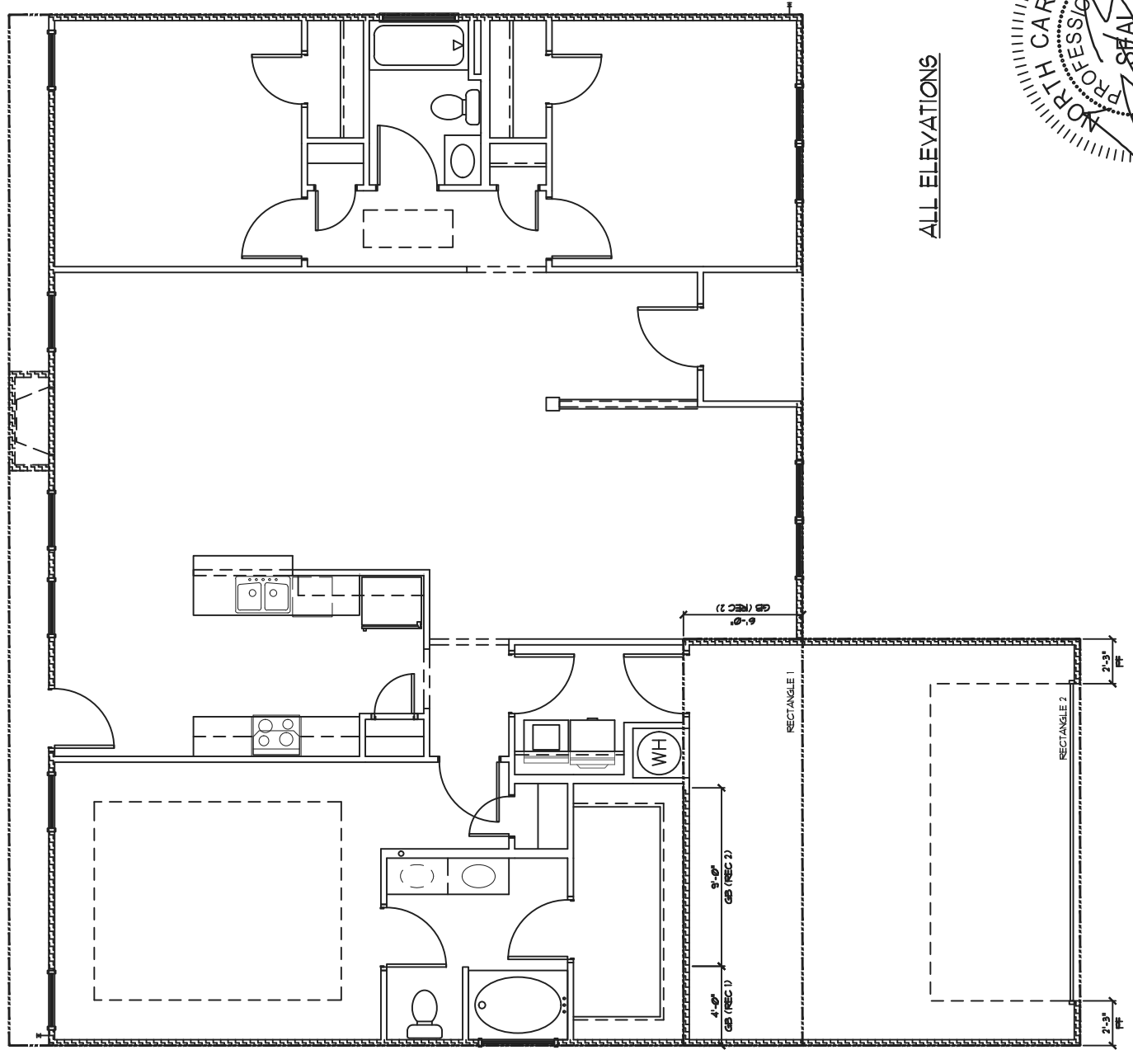
SHEET

S5.2

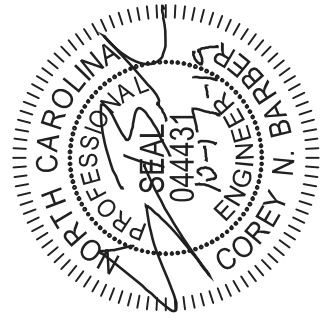


Cane Mill
Lot 2

STRUCTURAL MEMBERS ONLY



ALL ELEVATIONS



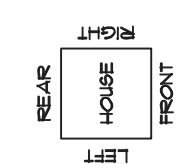
STRUCTURAL MEMBERS ONLY

Cane Mill
Lot 2

REQUIRED BRACED WALL PANEL CONNECTIONS

METHOD	MATERIAL	MIN. THICKNESS	REQUIRED CONNECTION
CS-WBP	WOOD STRUCTURAL PANEL	3/8"	• INTERMEDIATE SHEARWALLS • 6d COMMON NAILS @ 6" O.C.
GB	GYPSUM BOARD	1/2"	• 5d COOLER NAILS @ 1'-0" O.C.
WBP	WOOD STRUCTURAL PANEL	3/8"	• 6d COMMON NAILS @ 6" O.C.
PF	WOOD BRACED WALL PANEL	1/16"	PER FIGURE R602.101 PER FIGURE R602.101

*OR EQUIVALENT PER TABLE R102.3.5



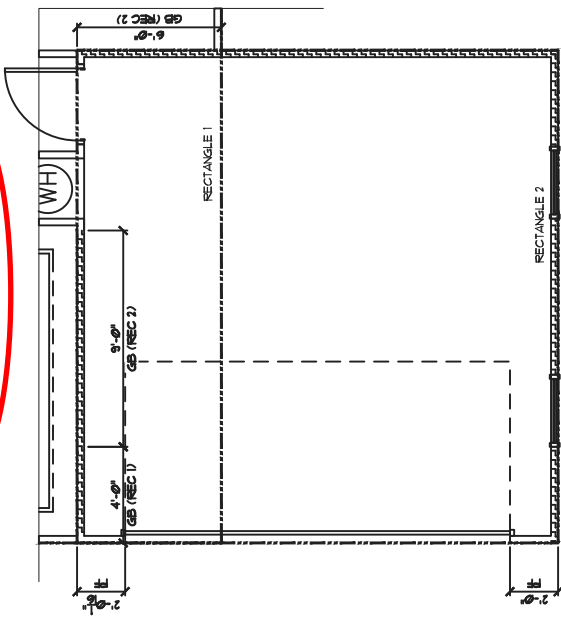
FIRST FLOOR BRACING (FT)

CONTINUOUS SHEATHING METHOD, SIDE ENTRY RECTANGLE 1	
REQUIRED	PROVIDED
FRONT	5.0
RIGHT	1.4
REAR	5.0
LEFT	1.4

FIRST FLOOR BRACING (FT)

CONTINUOUS SHEATHING METHOD, SIDE ENTRY RECTANGLE 2	
REQUIRED	PROVIDED
FRONT	3.0
RIGHT	3.1
REAR	3.0
LEFT	3.1

OPT. SIDE ENTRY



FIRST FLOOR BRACING (FT)

CONTINUOUS SHEATHING METHOD, RECTANGLE 1	
REQUIRED	PROVIDED
FRONT	5.0
RIGHT	1.4
REAR	5.0
LEFT	1.4

FIRST FLOOR BRACING (FT)

CONTINUOUS SHEATHING METHOD, RECTANGLE 2	
REQUIRED	PROVIDED
FRONT	3.0
RIGHT	3.1
REAR	3.0
LEFT	3.1

- BRACED WALL NOTES**
- WALLS SHALL BE DESIGNED IN ACCORDANCE WITH SECTION R602.10 FROM THE 2018 NORTH CAROLINA RESIDENTIAL CODE.
 - WALLS ARE DESIGNED FOR SEISMIC ZONES A-C AND ULTIMATE WIND SPEEDS UP TO 150 MPH.
 - ALL BRACED WALL PANELS SHALL BE AN APPROVED OPENING SIZE.
 - BRACED WALL MATERIALS, METHODS, AND FASTENERS SHALL BE IN ACCORDANCE WITH TABLE R602.101.
 - ALL BRACED WALL PANELS SHALL BE FULL WALL HEIGHT AND SHALL NOT EXCEED 10 FEET FOR ISOLATED PANEL METHOD AND 8 FEET FOR CONTINUOUS SHEATHING METHOD WITHOUT ADDITIONAL ENGINEERING CALCULATIONS.
 - MINIMUM PANEL LENGTH SHALL BE PER TABLE R602.101.
 - THE INTERIOR SIDE OF EXTERIOR WALLS AND BOTH SIDES OF INTERIOR WALLS SHALL BE SHEATHED CONTINUOUSLY WITH MINIMUM 1/2" GYPSUM BOARD.
 - FOR CONTINUOUS SHEATHING METHOD, EXTERIOR WALLS SHALL BE SHEATHED ON ALL SHEATHABLE SURFACES INCLUDING INELL AREAS BETWEEN BRACED WALL PANELS, ABOVE AND BELOW WALL OPENINGS, AND ON GABLE END WALLS.
 - BRACED WALL PANELS SHALL BE FULL HEIGHT AND SHALL BE FULL WIDTH.
 - FOUNDATION OR BEARINGS SHALL BE LOCATED BELOW THE ADDITIONAL ENGINEERING CALCULATIONS.
 - A BRACED WALL PANEL SHALL BE LOCATED WITHIN 12 FEET OF EACH END OF A BRACED WALL LINE.
 - THE DISTANCE BETWEEN BRACED WALL PANELS SHALL NOT EXCEED 21 FEET.
 - MASONRY OR CONCRETE STEEL WALLS WITH A LENGTH OF 40' OR LESS SUPPORTING A BRACED WALL PANEL SHALL BE DESIGNED IN ACCORDANCE WITH FIGURE R602.10.3 OF THE 2018 NCRC.
 - CONSTRUCTION IN ACCORDANCE WITH SECTION R602.10.4 SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION R602.10.5.
 - CEILING WALLS AND WALL OUT FLASHING WALLS SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION R602.10.6.
 - PORTAL WALLS SHALL BE DESIGNED IN ACCORDANCE WITH FIGURE R602.10.1 (IND).
 - ON SCHEMATIC, SHADDED WALLS INDICATE BRACED WALL PANELS.
- GB = GYPSUM BOARD
 CS-WBP = WOOD STRUCTURAL PANEL
 CS-WOC = CONT. SHEATHED
 PF = PORTAL FRAME
 WH = WINDOW
 FF-ENG = ENG. PORTAL FRAME

THESE PLANS ARE DESIGNED IN ACCORDANCE WITH ARCHITECTURAL PLANS PROVIDED BY SMITH DOUGLAS HOMES. UNLESS COMPLETED/REVISED ON DRAWING, IT IS THE RESPONSIBILITY OF THE CLIENT TO NOTIFY SMITH DOUGLAS HOMES, LABORATORY & TESTING, P.C. OF ANY CHANGES TO THE ARCHITECTURAL PLANS. SMITH DOUGLAS HOMES, LABORATORY & TESTING, P.C. CANNOT GUARANTEE THE ADEQUACY OF THESE STRUCTURAL PLANS WHEN USED WITH ARCHITECTURAL PLANS DATED DIFFERENTLY THAN THE DATE LISTED ABOVE.

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STRUCTURAL ANALYSIS BASED ON 2018 NCRC.

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

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.
- 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 occur.
- 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.
- 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.
- 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:

- 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)
- 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.
- 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.
- 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.
- No concrete shall be placed against any subgrade containing water, ice, frost, or loose material.
- 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
- 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
- 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%
 - 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 302.1R-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.
- 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:

- 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 C1116, 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.
- 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 masonry shall be a minimum of 48 bar diameters.
- 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.
- 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:
 - E = 1,900,000 psi
 - Fb = 2600 psi
 - Fv = 285 psi
 - 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 B18.2.1-1981. Lead holes for lag screws shall be in accordance with NDS specifications.
- 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. 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 fully blocked at all floor levels to ensure proper load transfer.
- Multi-ply beams shall have each ply attached with (3)10d nails @ 24" O.C.
- Fitch 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.

WOOD TRUSSES:

- 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 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:

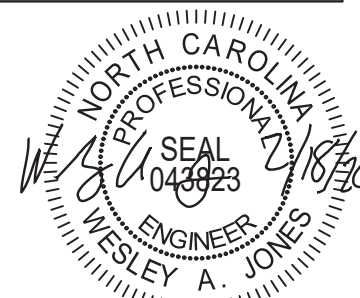
- Fabrication and placement of structural fiberboard sheathing shall be in accordance with the applicable AFA standards.
- Fiberboard wall sheathing shall comply with the requirements of local building codes for the appropriate state as indicated on these drawings. Refer to wall bracing notes in plan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

- 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.

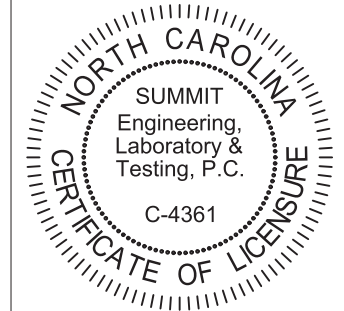
STRUCTURAL STEEL:

- 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 D1.1. Electrodes for shop and field welding shall be class E70XX. All welding shall be performed by a certified welder per the above standards.



STRUCTURAL MEMBERS ONLY

SUMMIT
ENGINEERING LABORATORY TESTING
3070 HAMMOND BUSINESS PLACE,
SUITE 171, RALEIGH, NC 27603
OFFICE: 919.380.9991
FAX: 919.380.9993
WWW.SUMMIT-COMPANIES.COM



PROJECT
Standard Details
Notes and Specifications
CLIENT
Smith Douglas Homes
110 Village Trail, Suite 215
Woodstock, GA 30188

CURRENT DRAWING

DATE: 2/18/20
SCALE: NTS
PROJECT #: 3832
DRAWN BY: LBV
CHECKED BY: WAJ

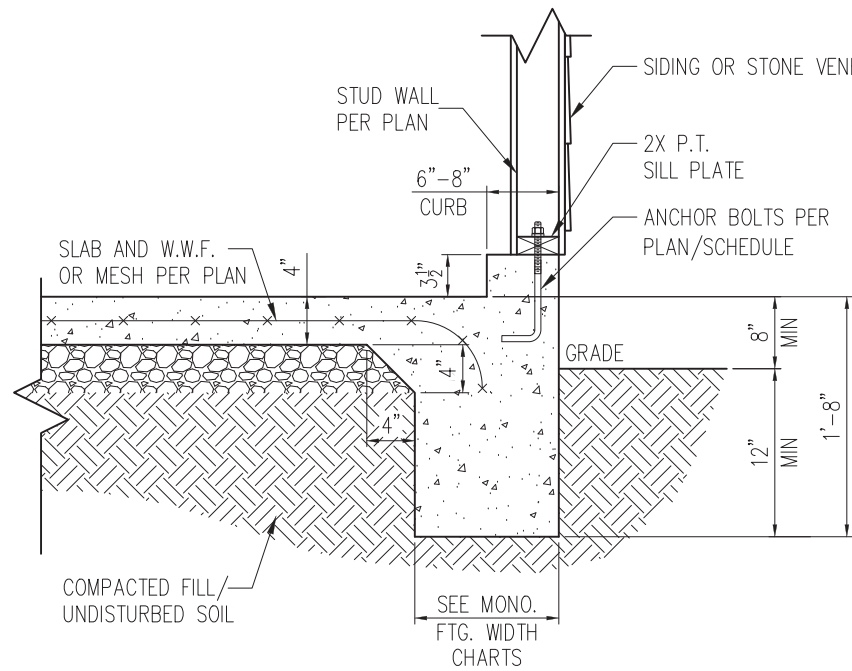
ORIGINAL DRAWING

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

REFER TO COVER SHEET FOR A COMPLETE LIST OF REVISIONS

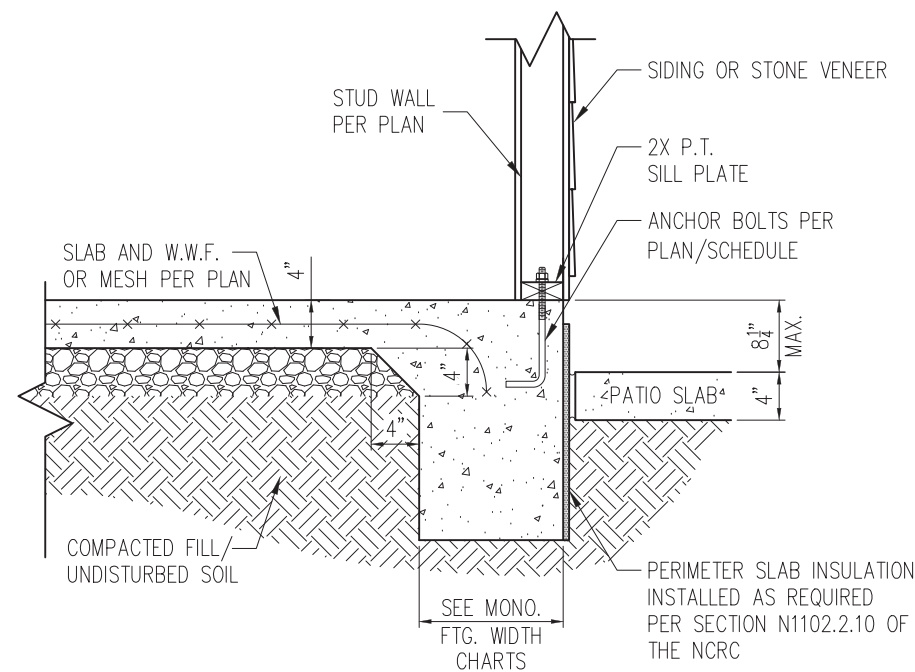
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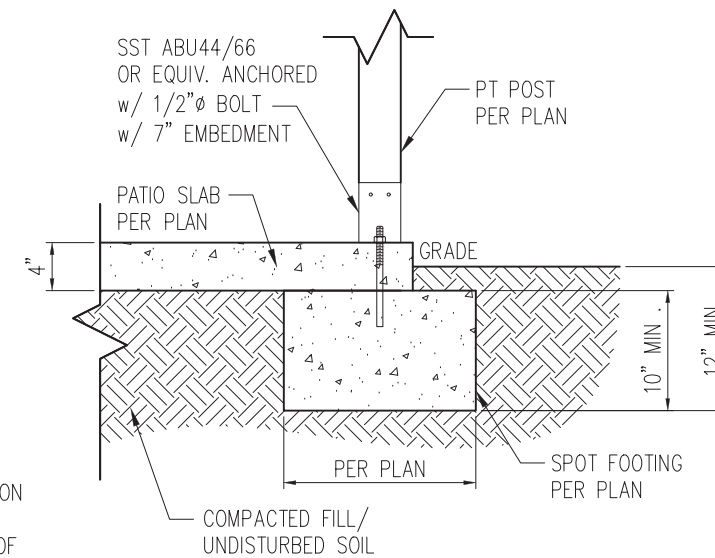
STANDARD - SIDING/STONE

1 TYP. GARAGE CURB DETAIL
D1m 3/4" = 1'-0"

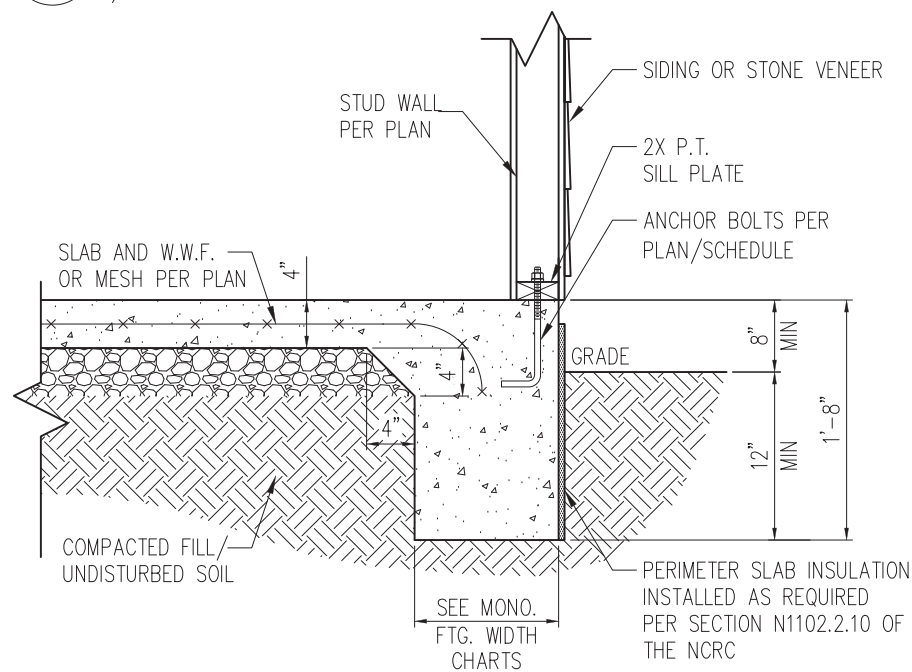


STANDARD - SIDING/STONE

2 PATIO SLAB DETAIL
D1m 3/4" = 1'-0"

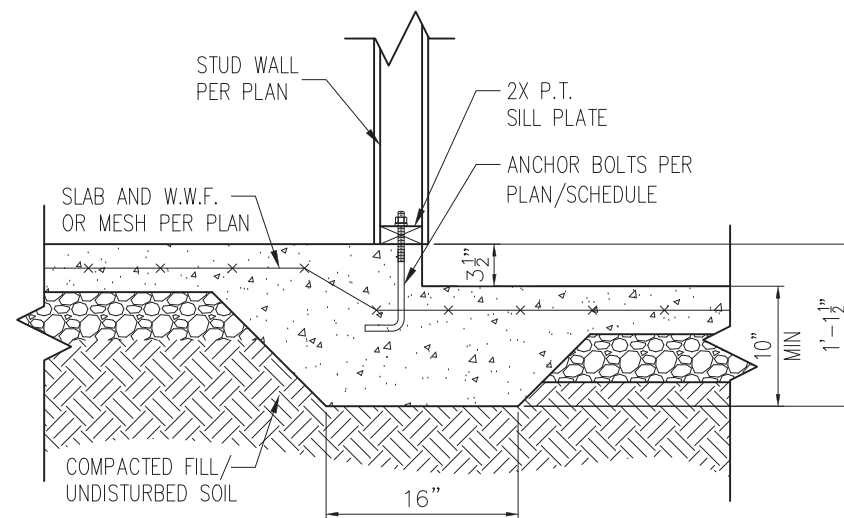


2A COVERED PATIO DETAIL
D1m 3/4" = 1'-0"



STANDARD - SIDING/STONE

3 TYP. SLAB DETAIL
D1m 3/4" = 1'-0"



4 STEP IN GARAGE
D1m 3/4" = 1'-0"

WALL ANCHOR SCHEDULE

TYPE OF ANCHOR	MIN. CONC. EMBEDMENT	SPACING EMBEDMENT	INTERIOR WALL	EXTERIOR WALL
1/2" A307 BOLTS w/ STD. 90° BEND	7"	6'-0"	YES	YES
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" HILTI THREADED ROD w/ HIT HY150 ADHESIVE	7"	6'-0"	YES	YES

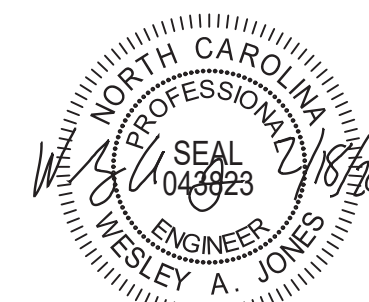
NOTE: INSTALL ALL ANCHORS 12" MAX. FROM ALL BOTTOM PLATE ENDS AND JOINTS.

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"

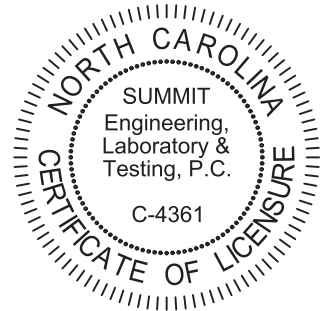
*5" BRICK LEDGE HAS BEEN ADDED TO THE MONOLITHIC FOOTING WIDTH FOR BRICK SUPPORT

- NOTES:
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 - PROVIDE 6 MIL VAPOR BARRIER UNDER ALL SLABS-ON-GRADE.
 - SEE ARCH. DWGS. FOR ALL TOP OF THE SLAB ELEVATIONS, SLOPES AND DEPRESSIONS.



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FAX: 919.380.9993
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PROJECT
Standard Details
Monolithic Slab Details
CLIENT
Smith Douglas Homes
110 Village Trail, Suite 215
Woodstock, GA 30188

CURRENT DRAWING
DATE: 2/18/20
SCALE: NTS
PROJECT #: 3832
DRAWN BY: LBV
CHECKED BY: WAJ

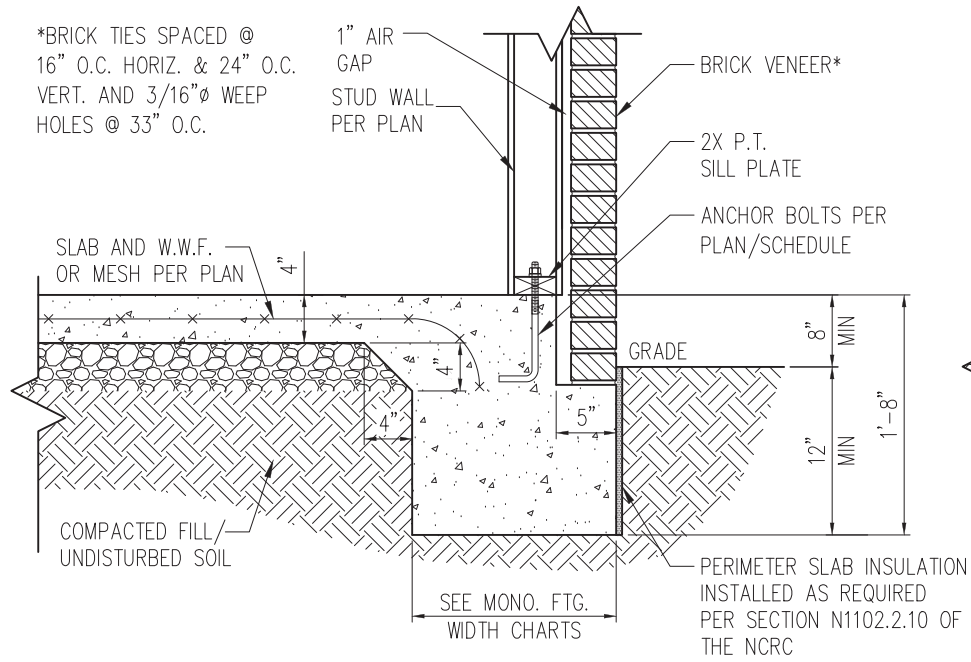
ORIGINAL DRAWING
NO. DATE PROJECT #
0 1/7/16 3832

REFER TO COVER SHEET FOR A COMPLETE LIST OF REVISIONS

SHEET

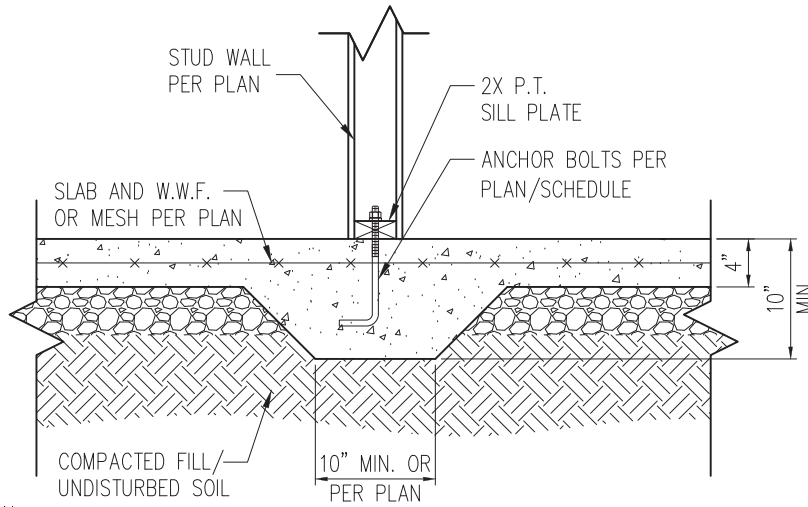
D1m

*BRICK TIES SPACED @ 16" O.C. HORIZ. & 24" O.C. VERT. AND 3/16" Ø WEEP HOLES @ 33" O.C.



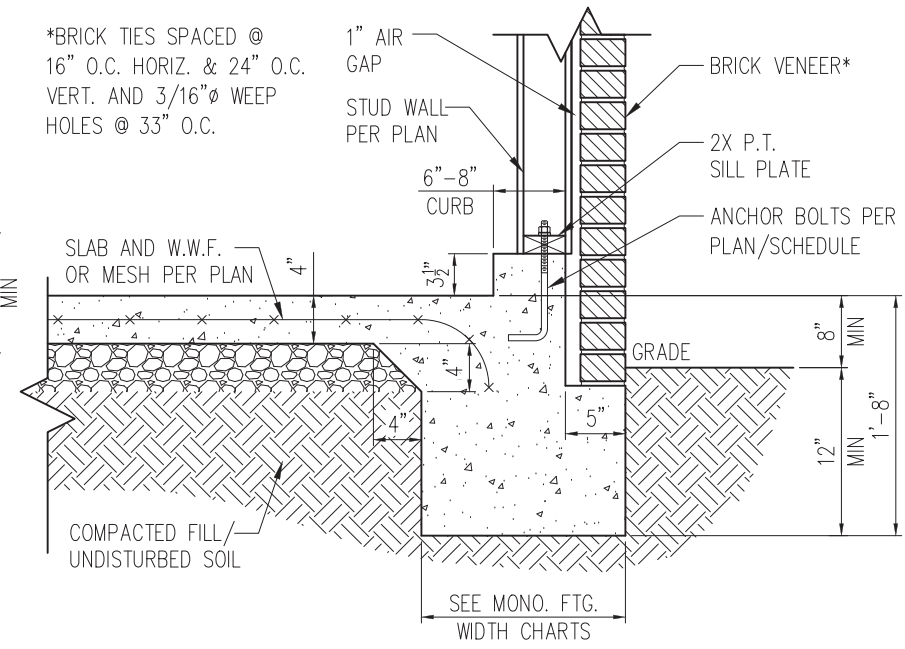
STANDARD - BRICK

1 TYP. SLAB DETAIL W/ BRICK VENEER
D2m 3/4" = 1'-0"



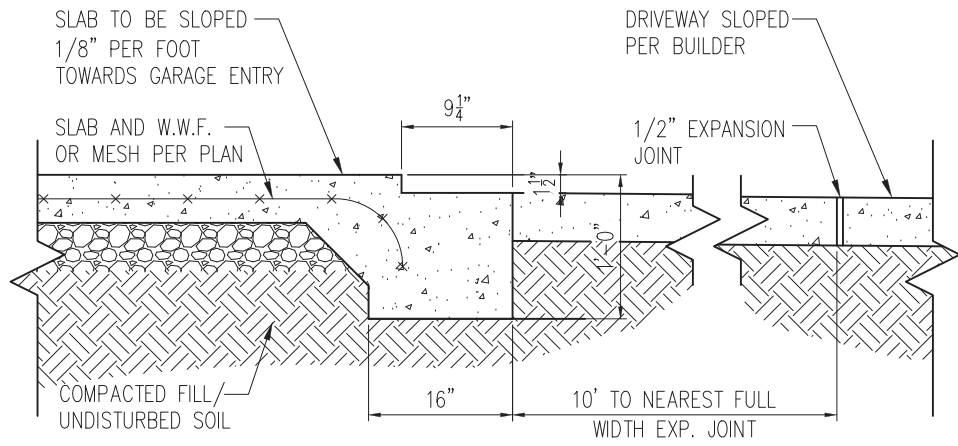
3 TYP. THICKENED SLAB DETAIL
D2m 3/4" = 1'-0"

*BRICK TIES SPACED @ 16" O.C. HORIZ. & 24" O.C. VERT. AND 3/16" Ø WEEP HOLES @ 33" O.C.

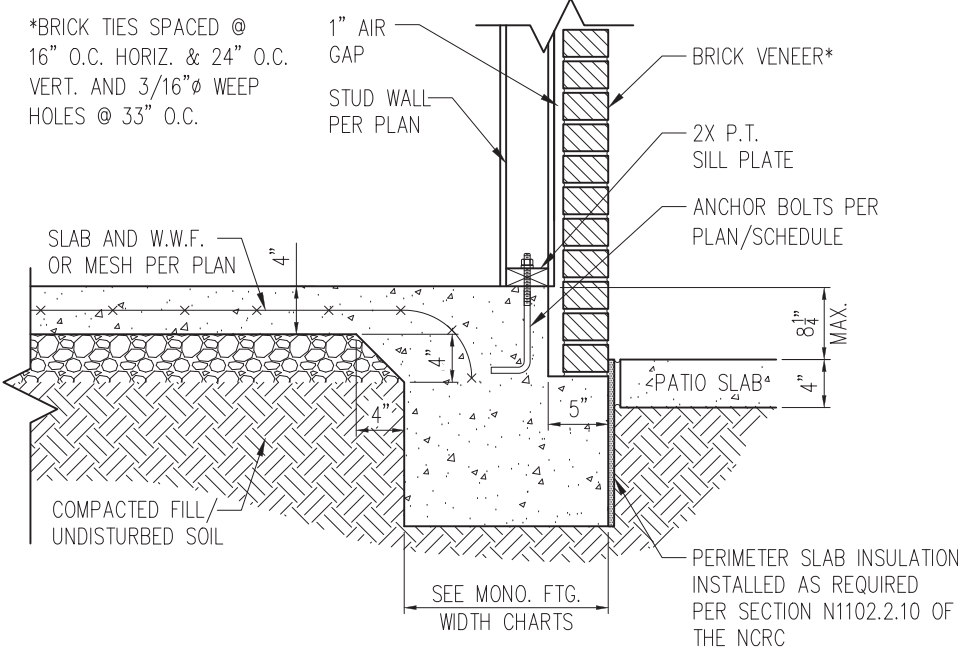


STANDARD - BRICK

5 TYP. GARAGE CURB DETAIL W/ BRICK VENEER
D2m 3/4" = 1'-0"



2 SLAB AT GARAGE DOOR
D2m 3/4" = 1'-0"



STANDARD - BRICK

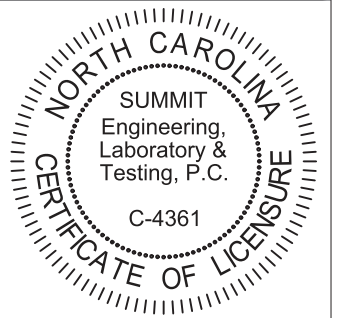
4 PATIO SLAB DETAIL W/ BRICK VENEER
D2m 3/4" = 1'-0"

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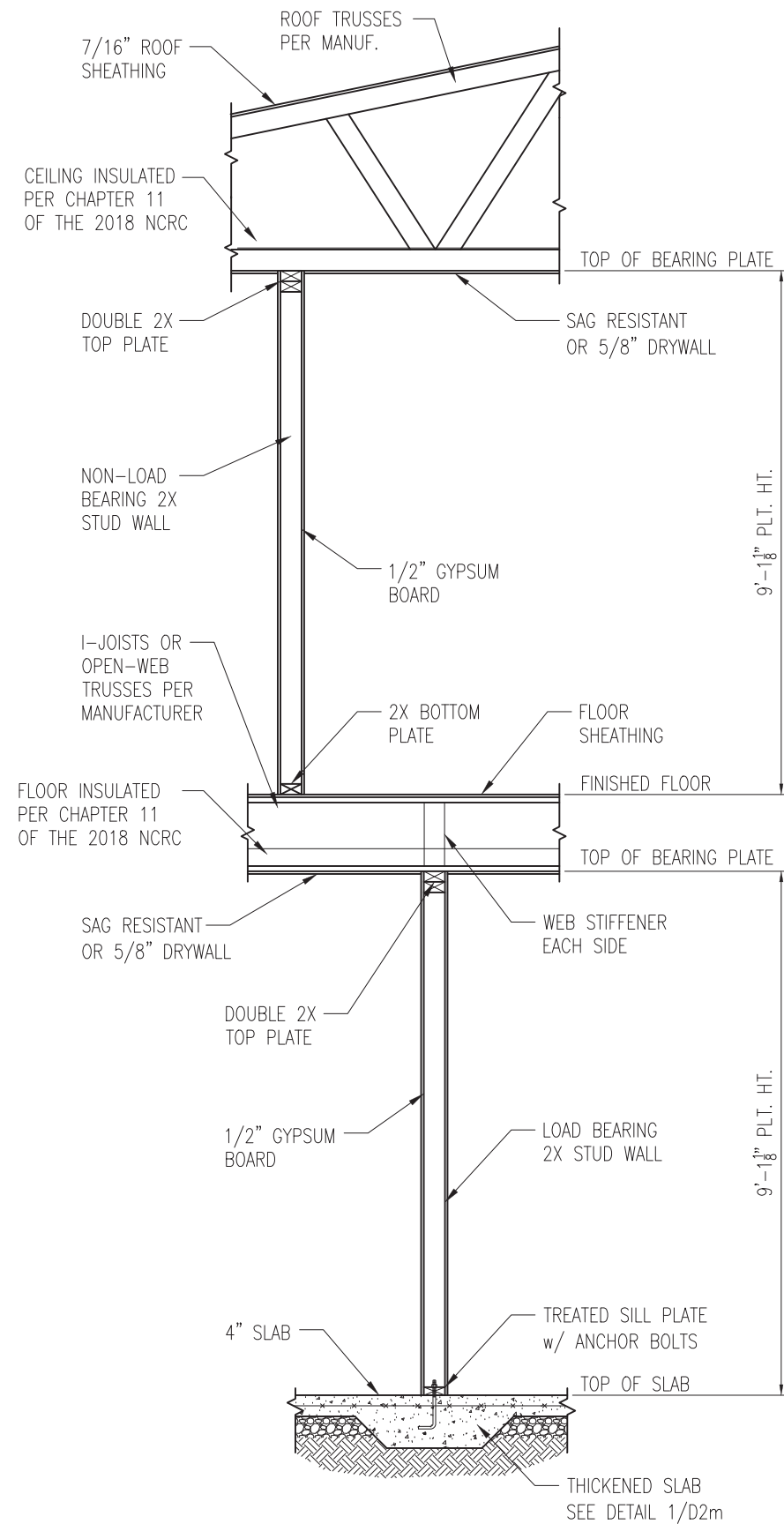
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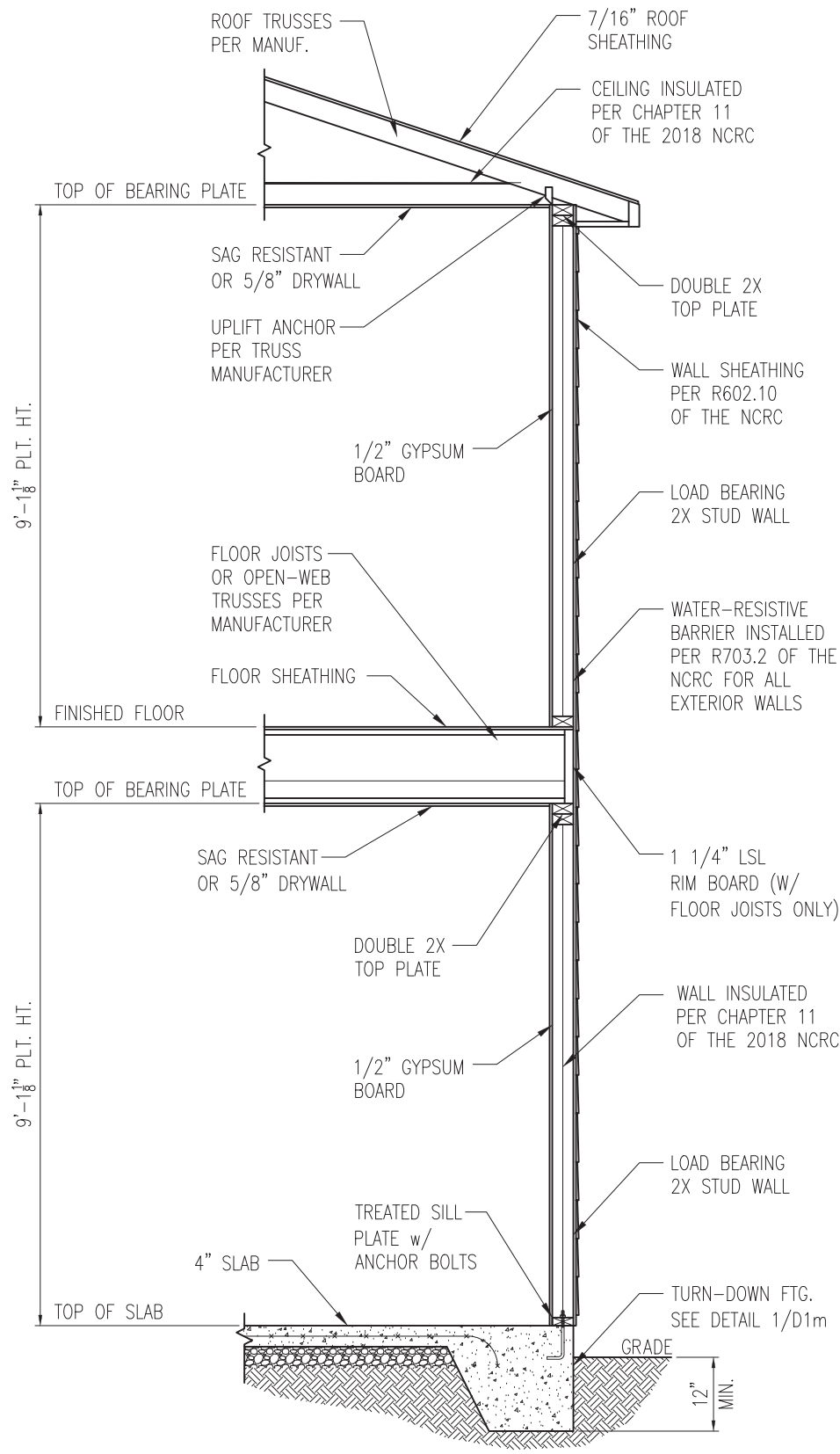
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NO. DATE PROJECT #
0 1/7/16 3832

REFER TO COVER SHEET FOR A COMPLETE LIST OF REVISIONS

SHEET
D2m



1 TYP. INTERIOR LOAD BEARING WALL SECTION
 D3m 3/4" = 1'-0"

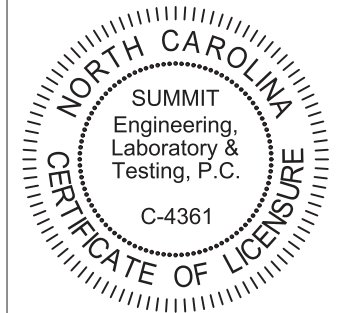


2 TYP. EXTERIOR LOAD BEARING WALL SECTION
 D3m 3/4" = 1'-0"
 -SIMILAR w/ BRICK AND STONE
 -BRICK TIES SPACED @ 16" O.C. HORIZ. & 24" O.C. VERT.
 -MIN. 3/16"Ø WEEP HOLES @ 33" O.C.

- NOTES:
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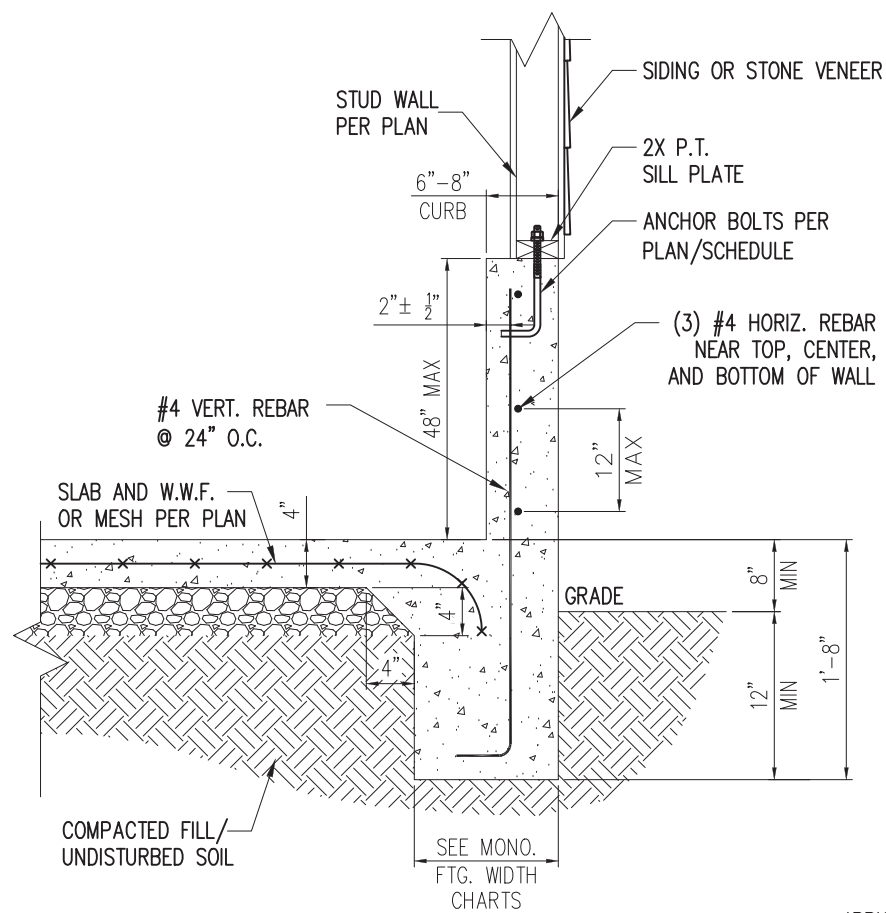
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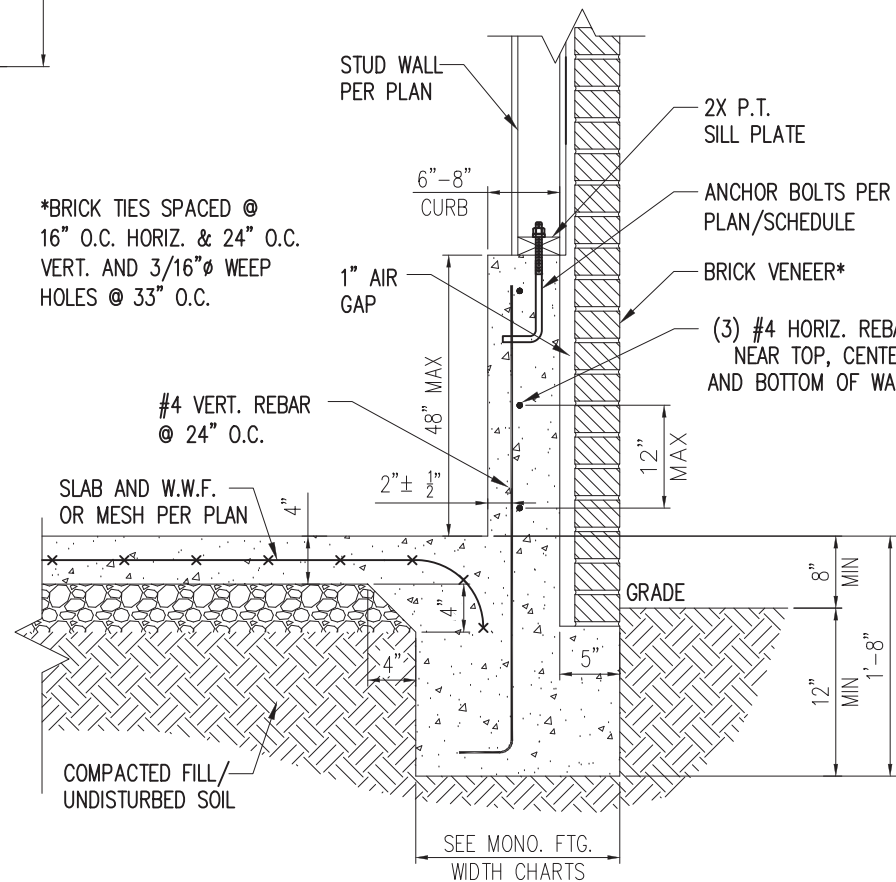
SHEET
D3m



STANDARD - SIDING/STONE

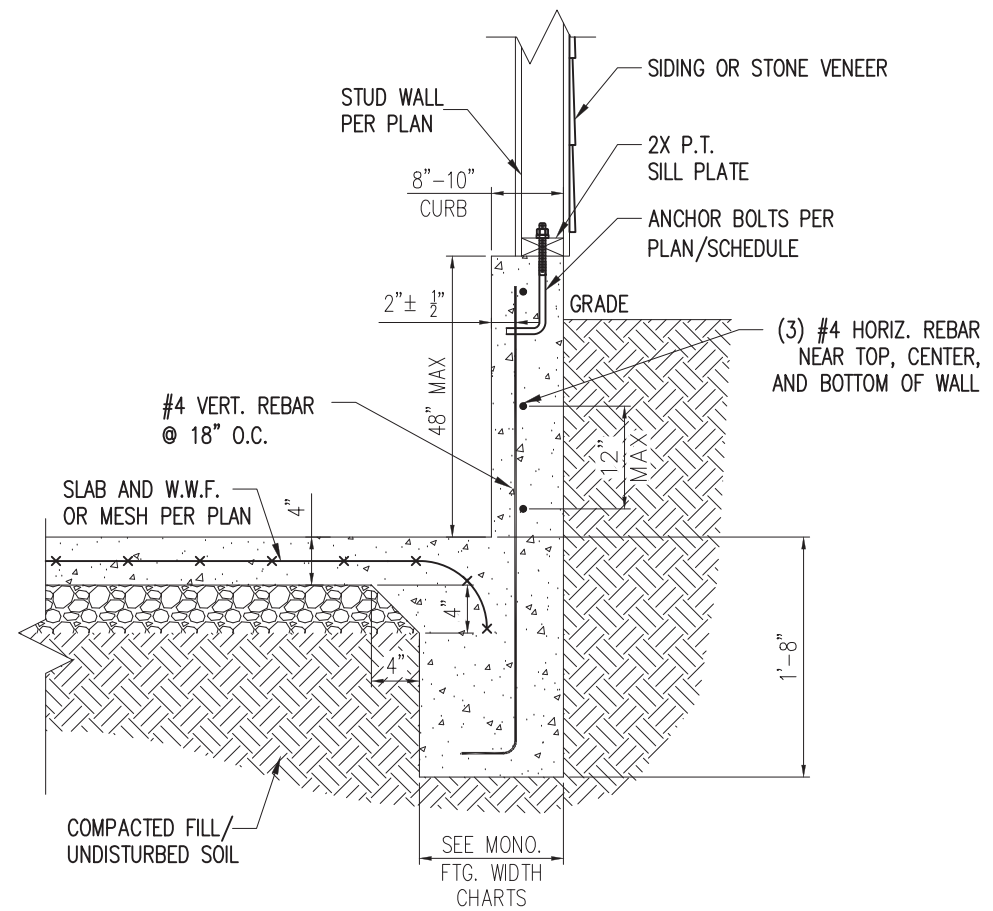
1 EXTENDED GARAGE CURB DETAIL
D4m NTS

*BRICK TIES SPACED @
16" O.C. HORIZ. & 24" O.C.
VERT. AND 3/16" Ø WEEP
HOLES @ 33" O.C.



STANDARD - BRICK

3 EXTENDED GARAGE CURB DETAIL
W/ BRICK VENEER
D4m NTS



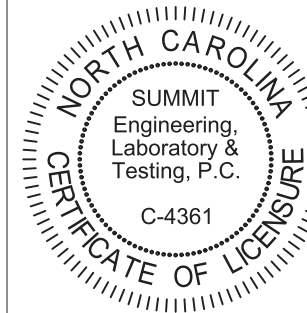
STANDARD - SIDING/STONE

2 EXTENDED GARAGE CURB DETAIL
W/ UNBALANCED FILL
D4m NTS



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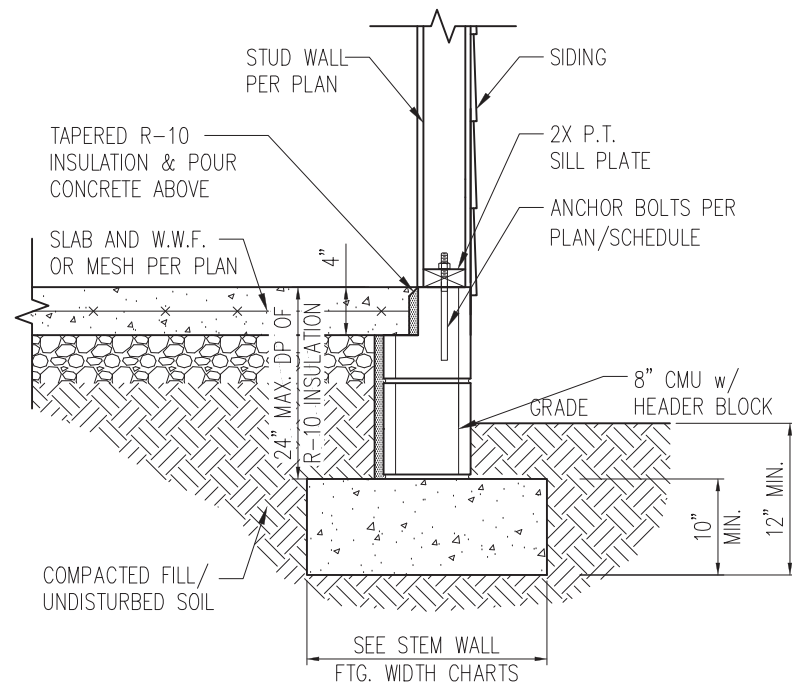
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NO. DATE PROJECT #
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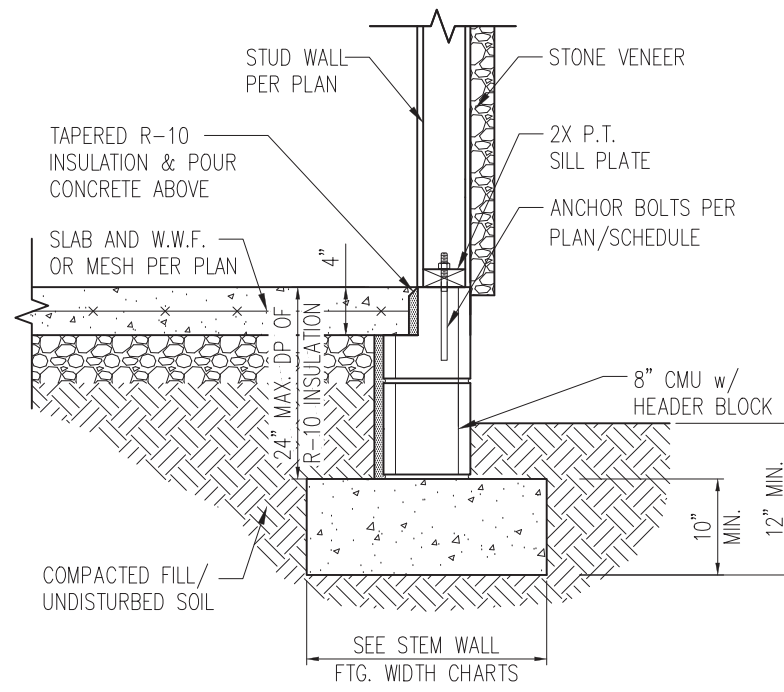
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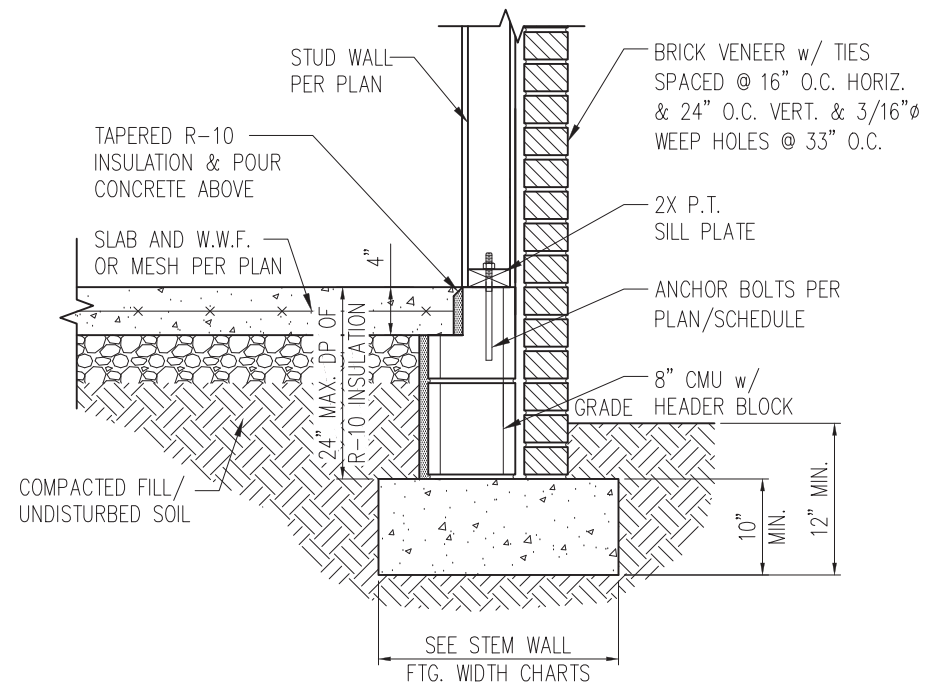
D4m



STANDARD - SIDING

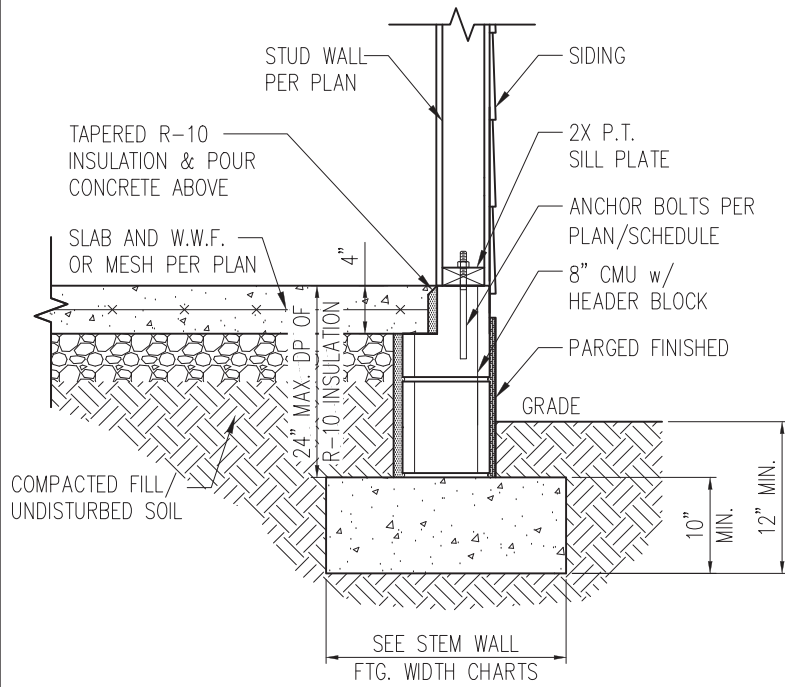


STANDARD - STONE

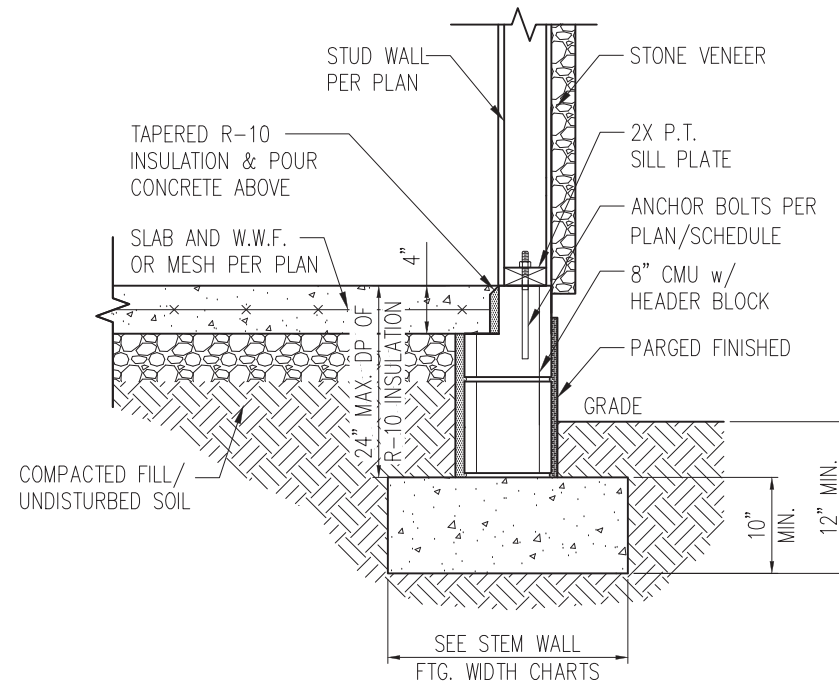


STANDARD - BRICK

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



STANDARD - SIDING



STANDARD - STONE

1a STEM WALL DETAIL w/ PARGED FINISH
D1s 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

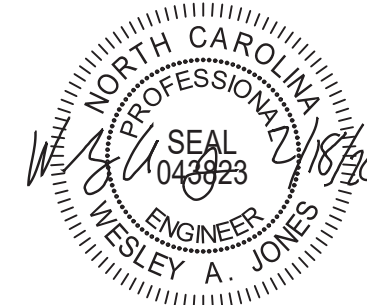
WALL ANCHOR SCHEDULE

TYPE OF ANCHOR	MIN. CONC. EMBEDMENT	SPACING EMBEDMENT	INTERIOR WALL	EXTERIOR WALL
1/2" A307 BOLTS w/ STD. 90° BEND	7"	6'-0"	YES	YES
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" HILTI THREADED ROD w/ HIT HY150 ADHESIVE	7"	6'-0"	YES	YES

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

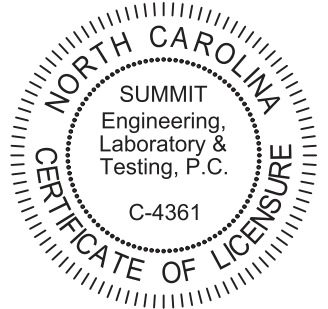
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PROJECT
Standard Details
Stemwall Details
CLIENT
Smith Douglas Homes
110 Village Trail, Suite 215
Woodstock, GA 30188

CURRENT DRAWING

DATE: 2/18/20

SCALE: NTS

PROJECT #: 3832

DRAWN BY: LBV

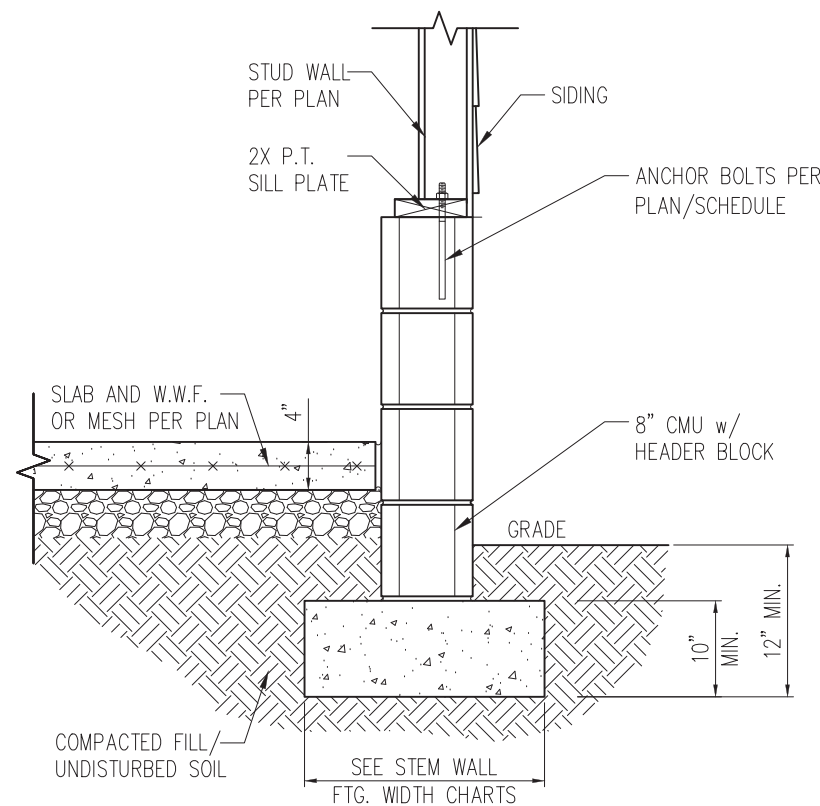
CHECKED BY: WAJ

ORIGINAL DRAWING

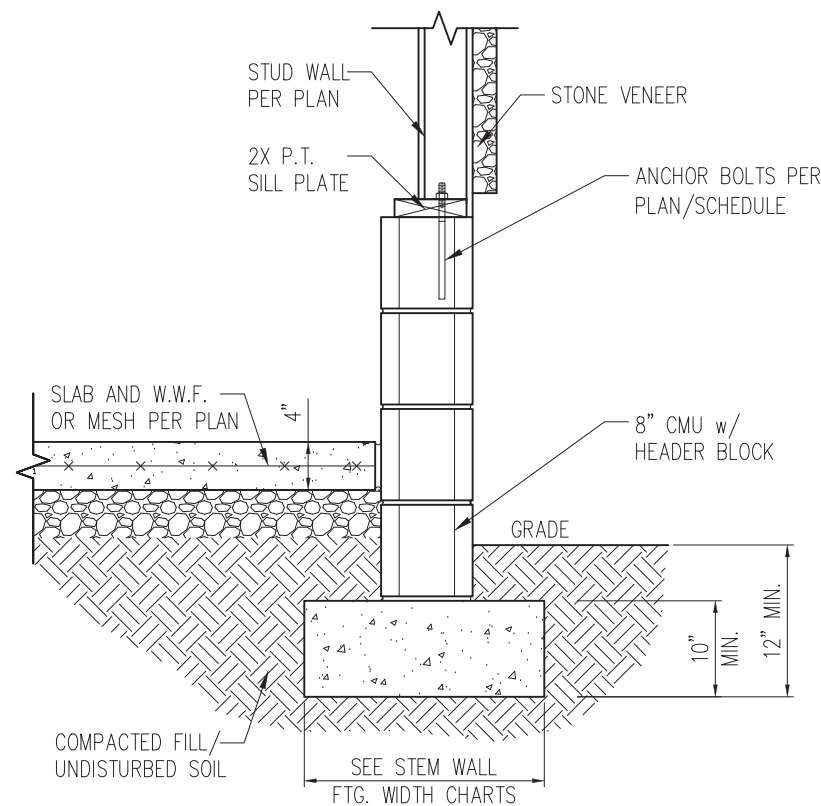
NO.	DATE	PROJECT #
0	1/7/16	3832

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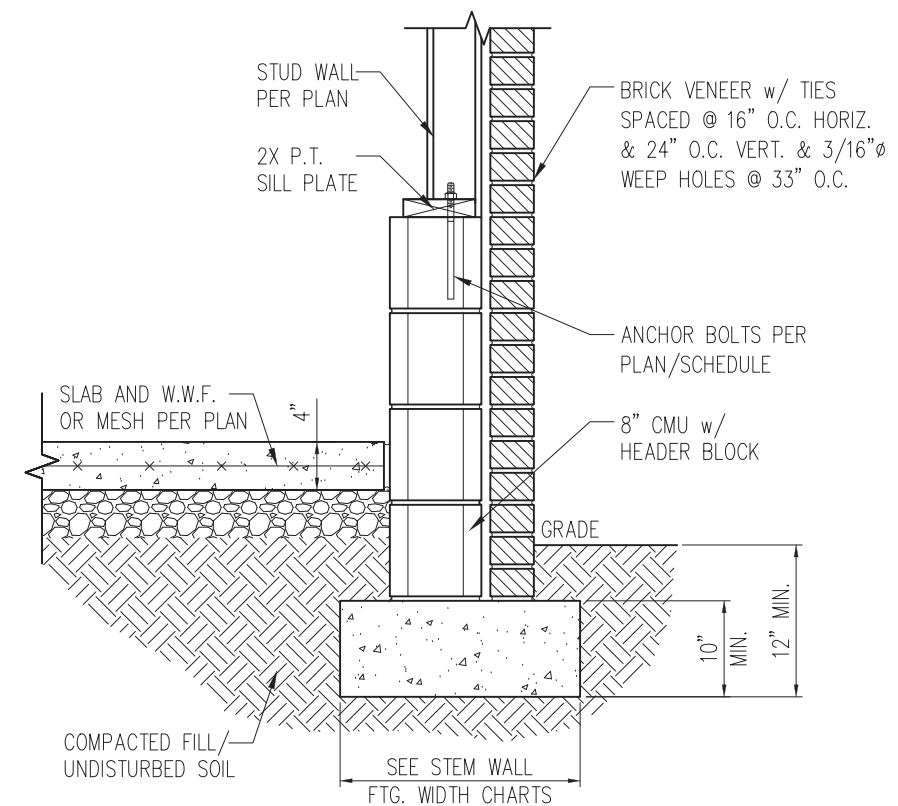
SHEET
D1s



STANDARD - SIDING

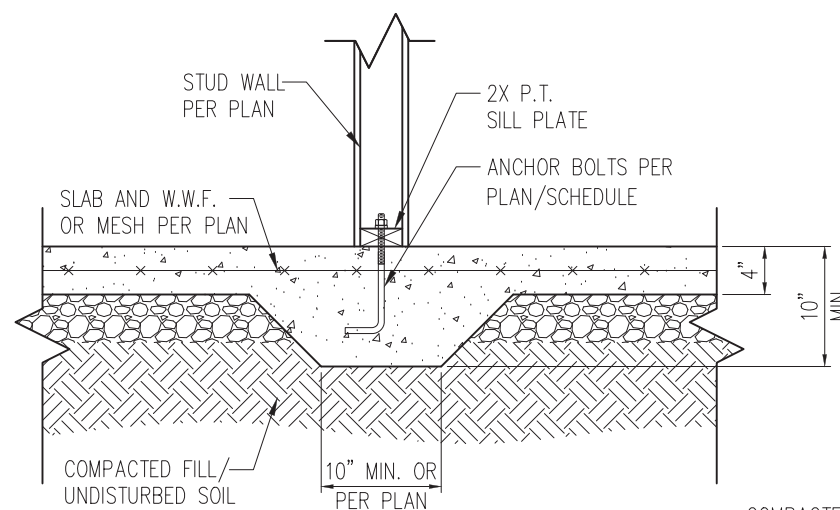


STANDARD - STONE

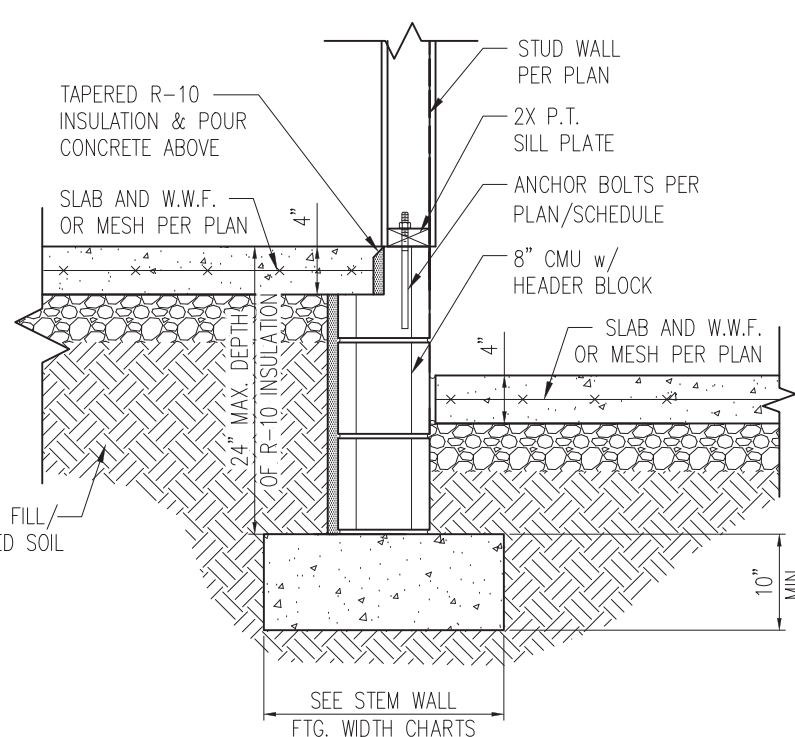


STANDARD - BRICK

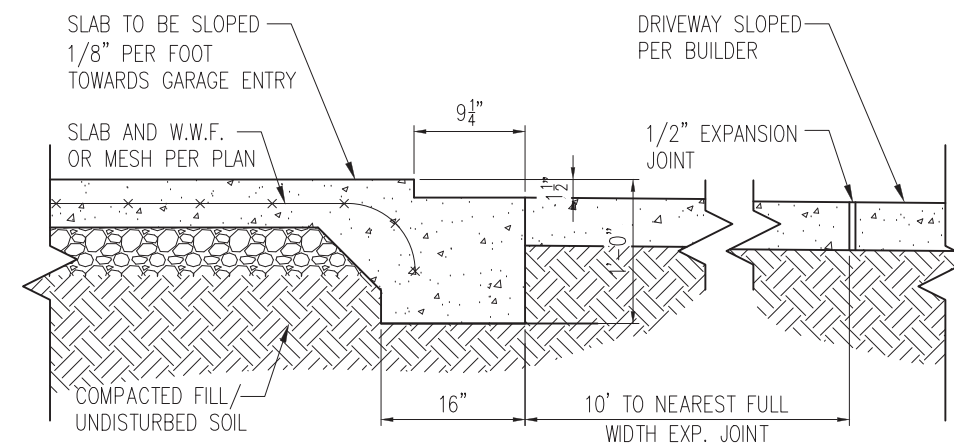
1 TYP. GARAGE CURB DETAIL
D2s 3/4" = 1'-0"



2 TYP. THICKENED SLAB DETAIL
D2s 3/4" = 1'-0"

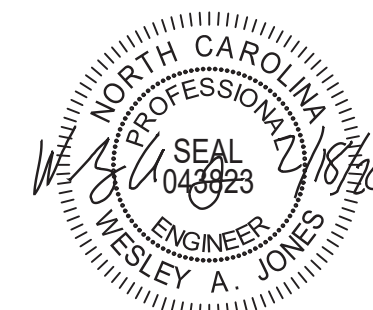


3 HOUSE/GARAGE WALL DETAIL
D2s 3/4" = 1'-0"



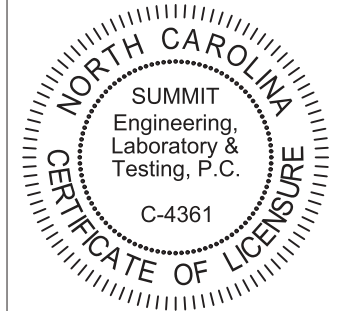
4 SLAB AT GARAGE DOOR
D2s 3/4" = 1'-0"

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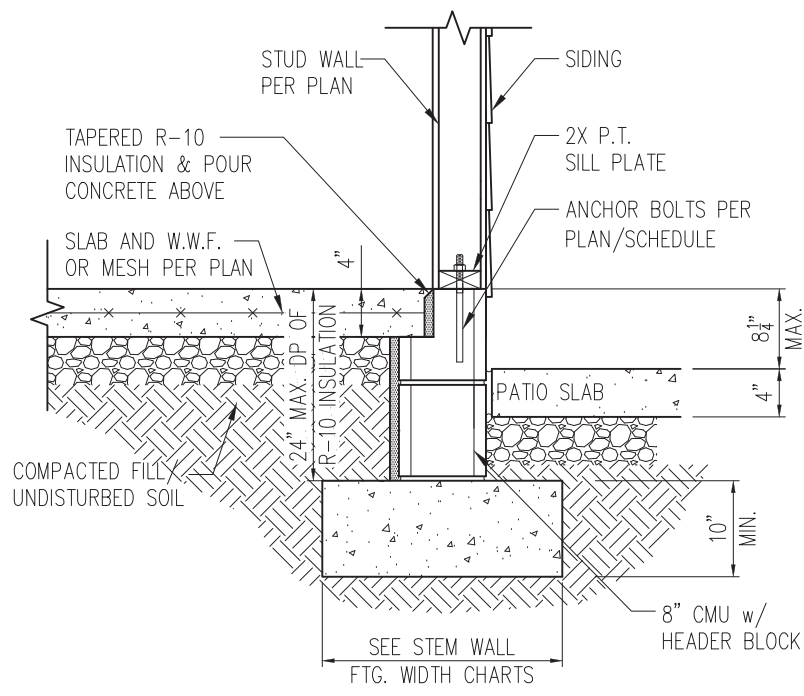


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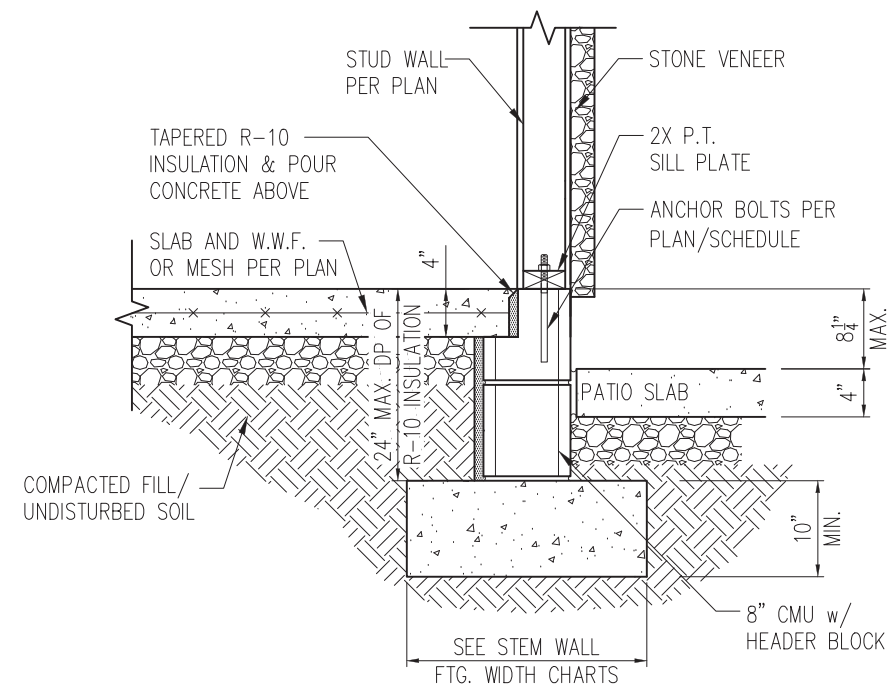
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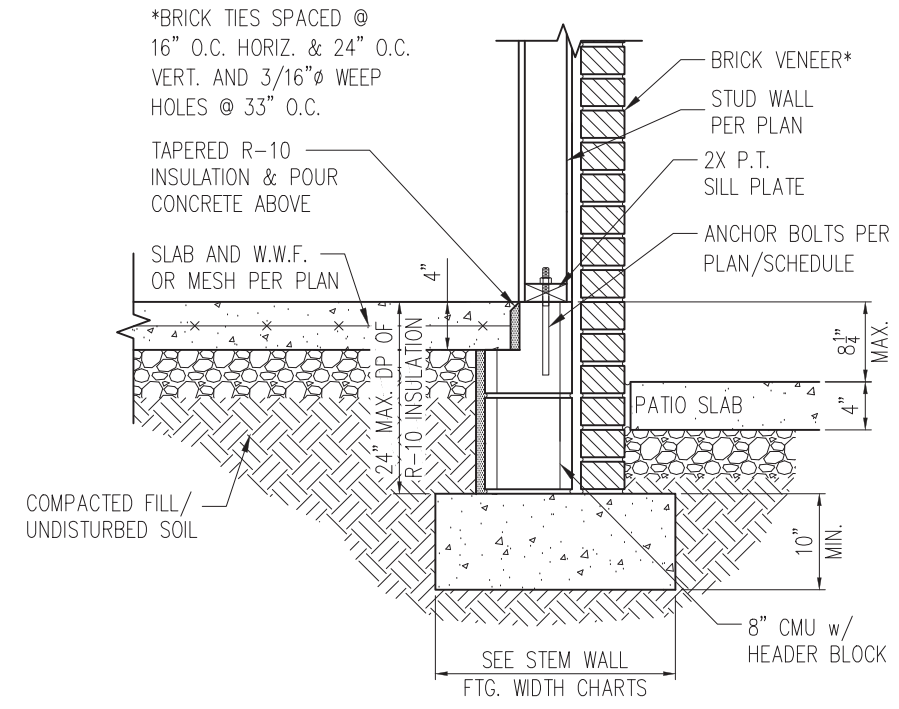
SHEET
D2s



STANDARD - SIDING

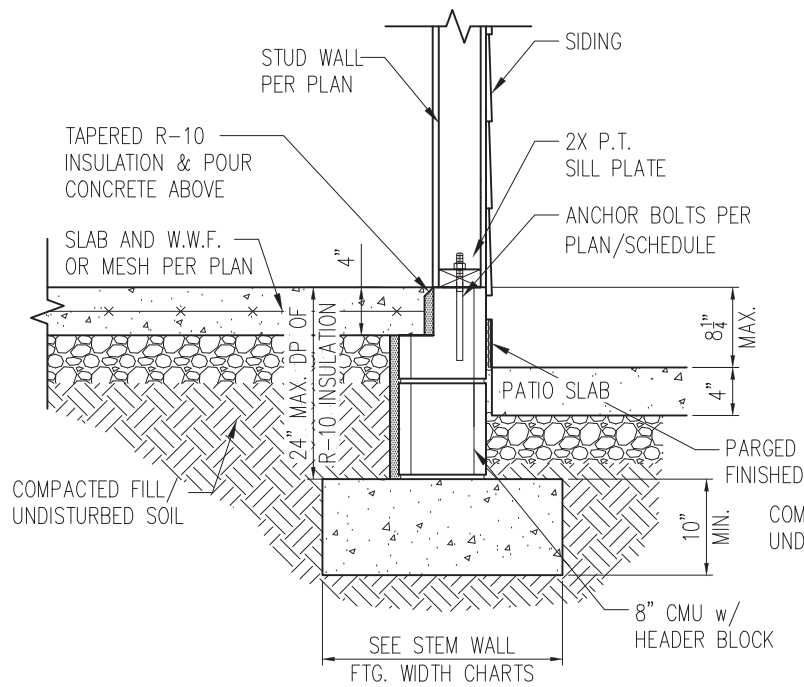


STANDARD - STONE

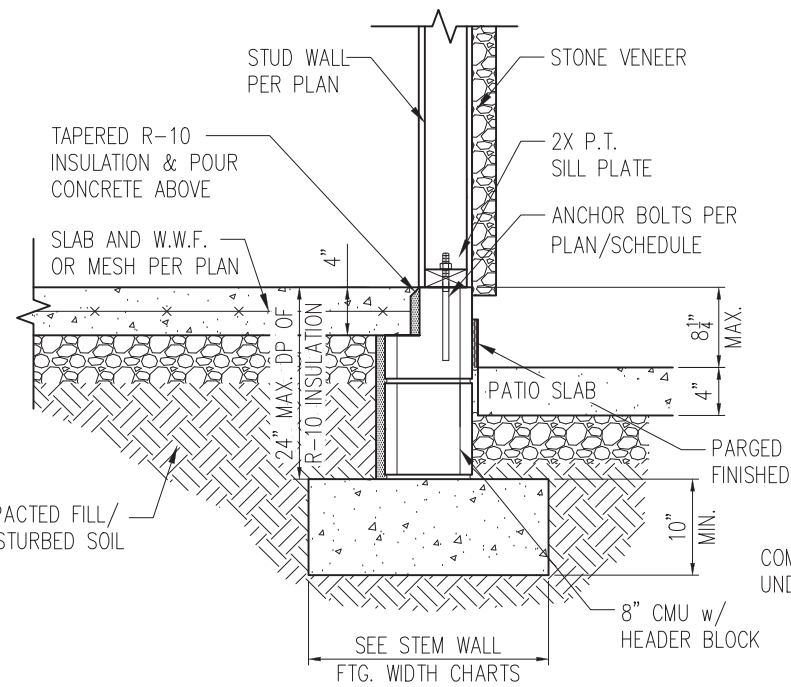


STANDARD - BRICK

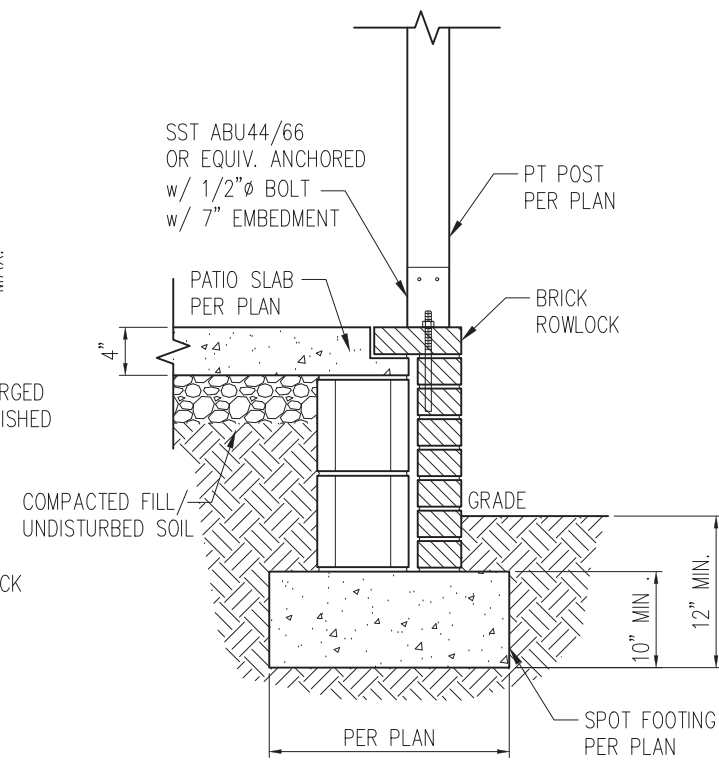
1 PORCH SLAB DETAIL
D3s 3/4" = 1'-0"



STANDARD - SIDING

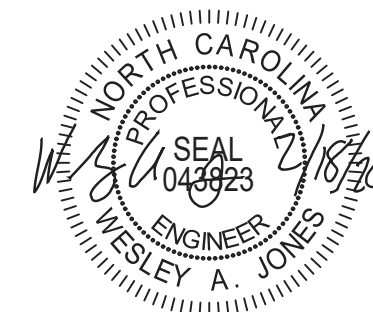


STANDARD - STONE



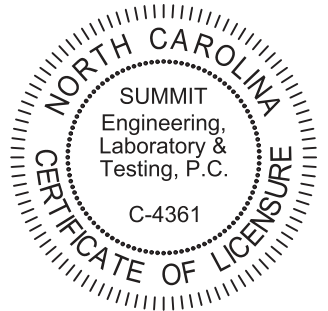
2 COVERED PORCH DETAIL
D3s 3/4" = 1'-0"

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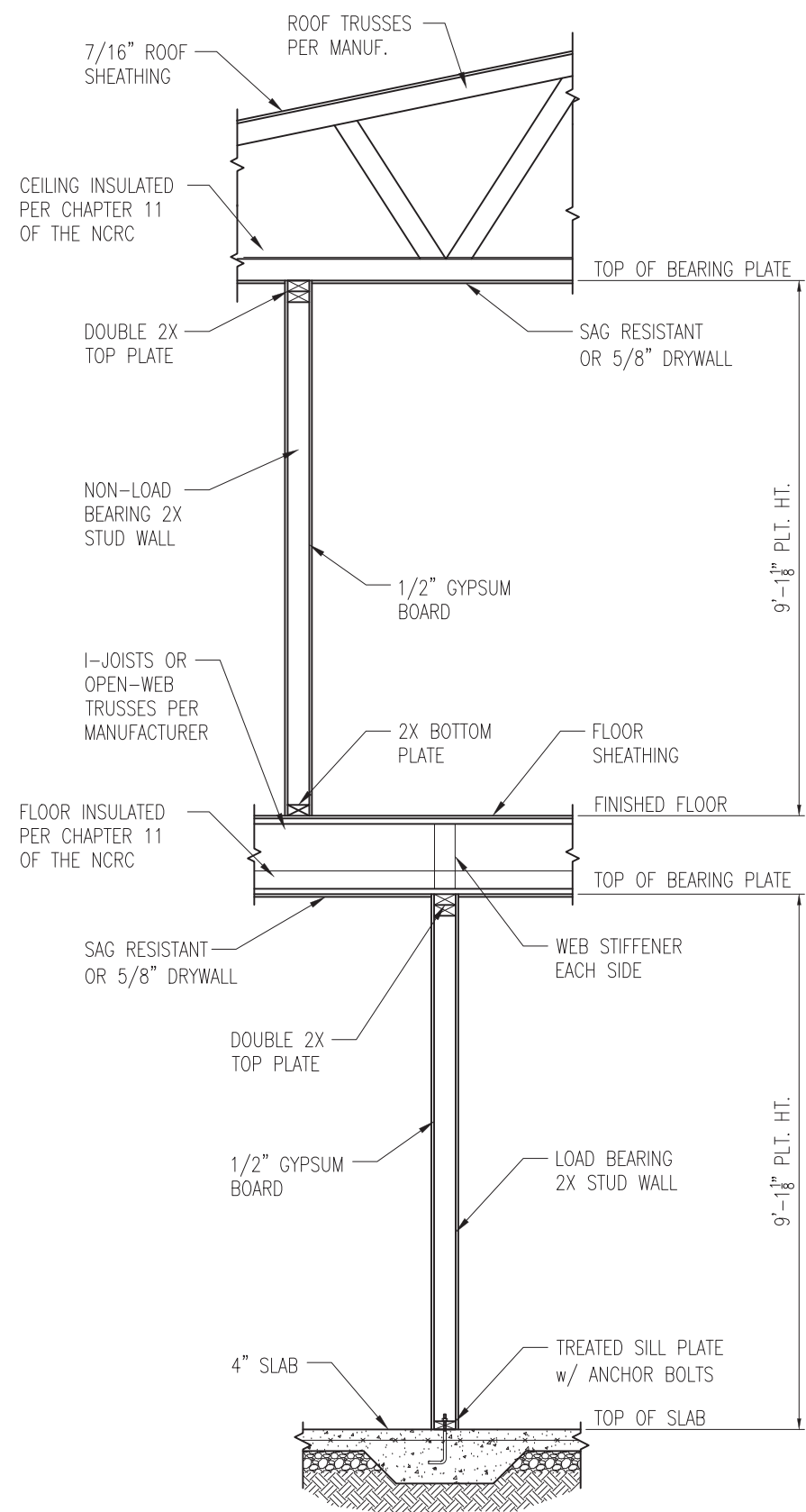
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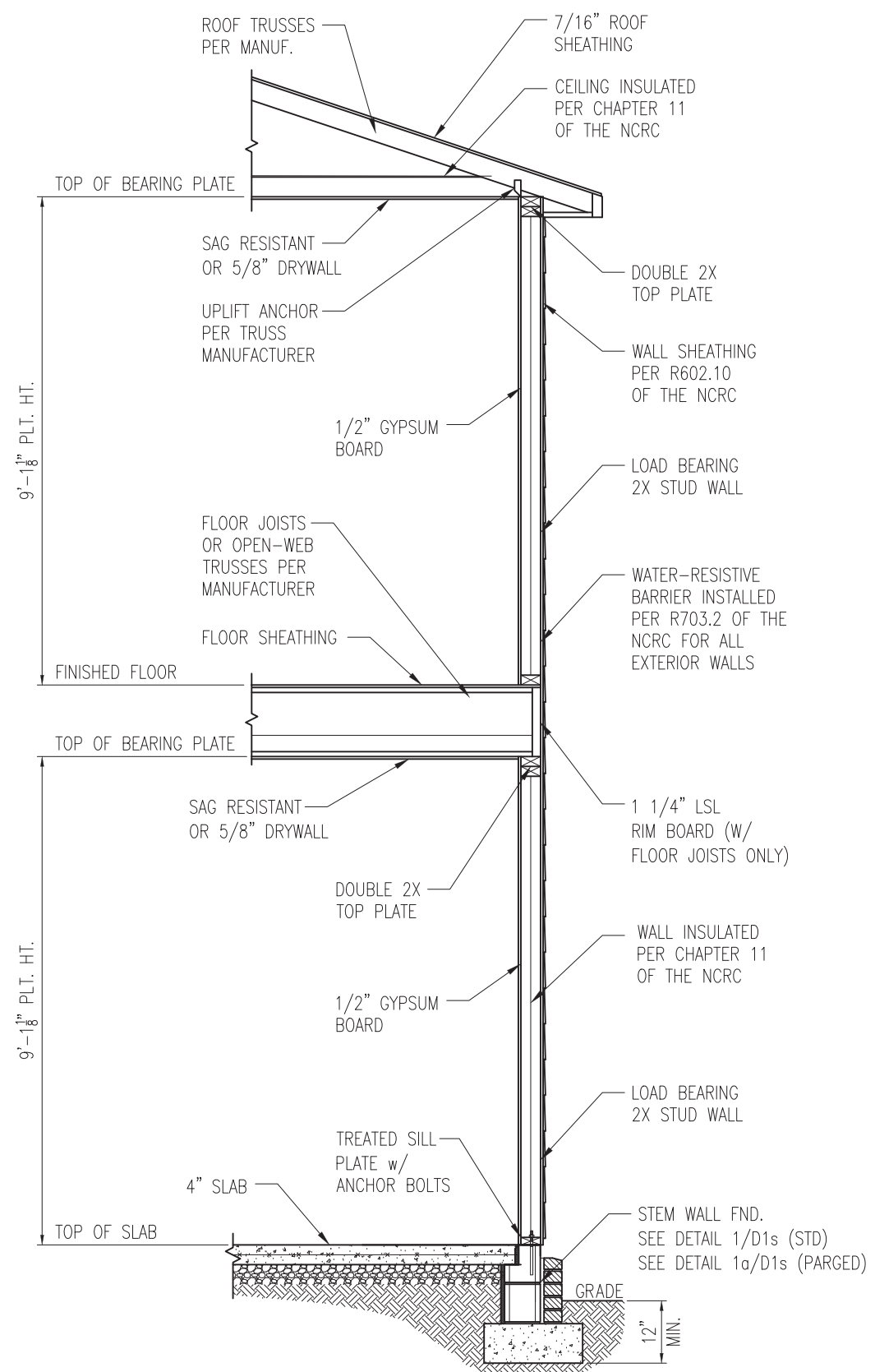
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SHEET
D3s



1 TYP. INTERIOR LOAD BEARING WALL SECTION
 D4s 3/4" = 1'-0"



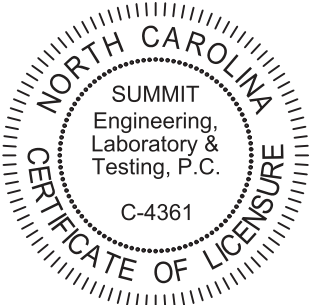
2 TYP. EXTERIOR LOAD BEARING WALL SECTION
 D4s 3/4" = 1'-0" -SIMILAR w/ BRICK AND STONE
 -BRICK TIES SPACED @ 16" O.C. HORIZ. & 24" O.C. VERT.
 -MIN. 3/16" WEEP HOLES @ 33" O.C.

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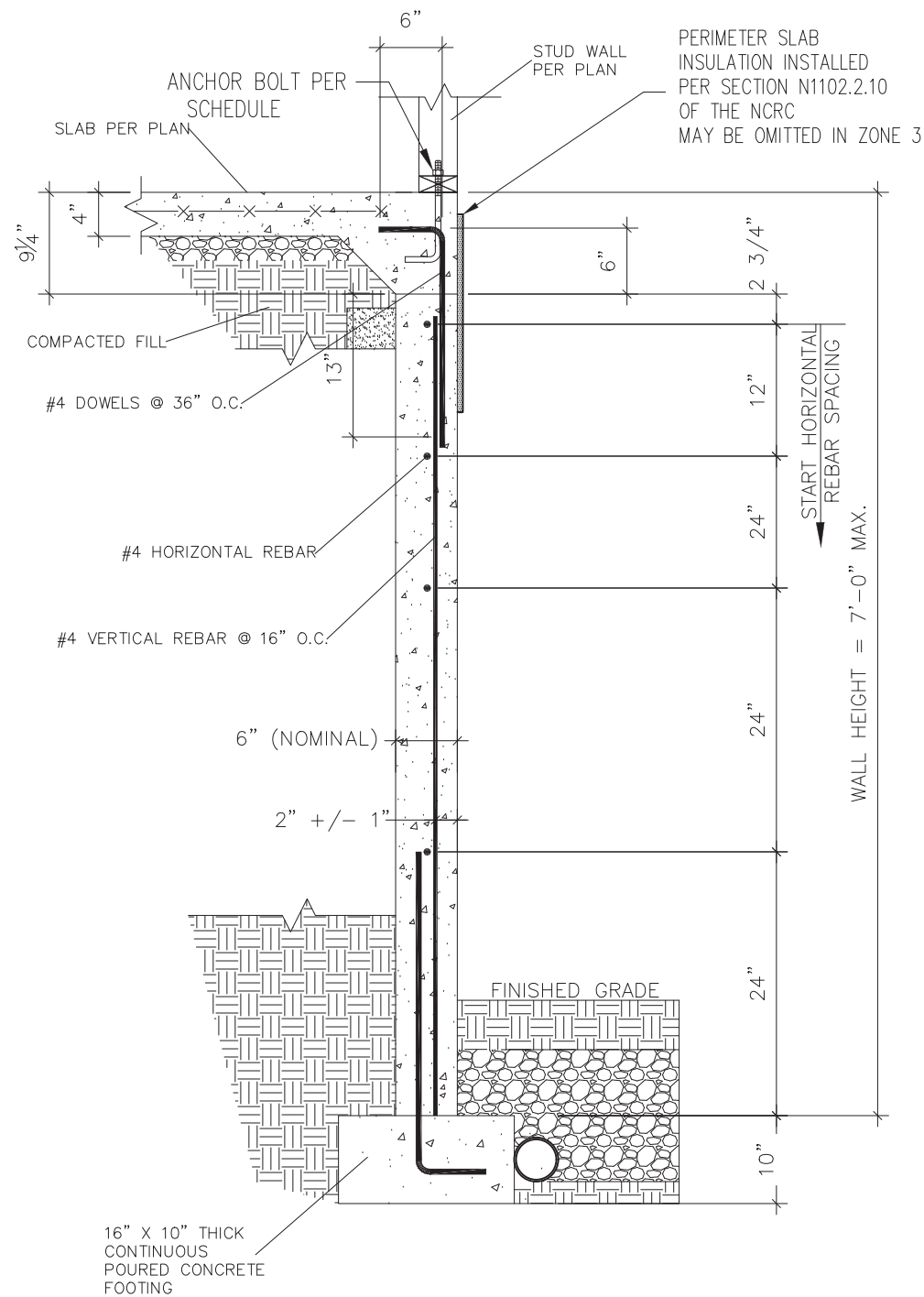
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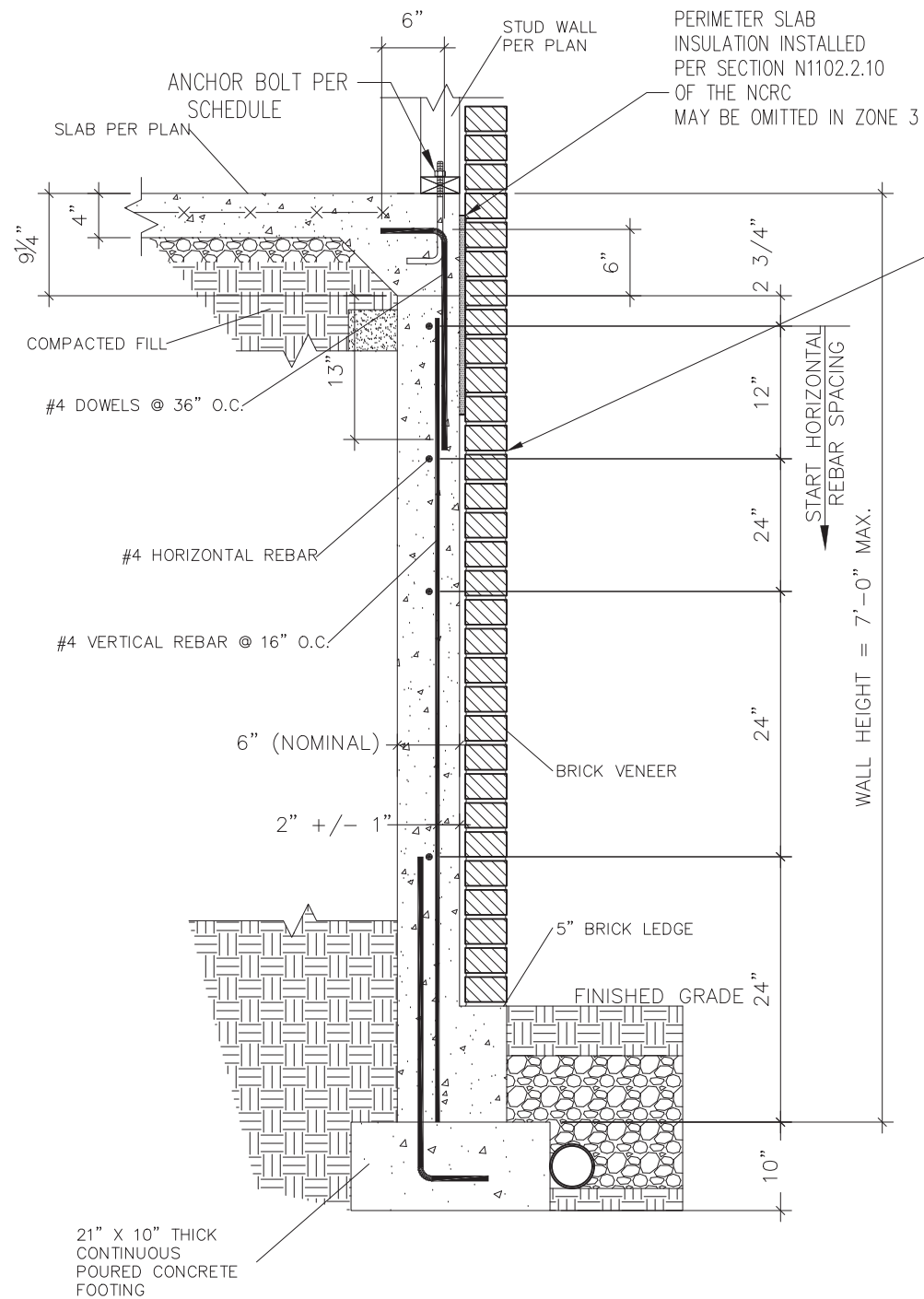
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SHEET
D4s



1 SUBWALL FOUNDATION
 D5s 3/4" = 1'-0"



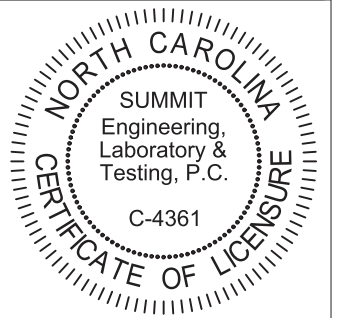
2 SUBWALL FOUNDATION W/ BRICK VENEER
 D5s 3/4" = 1'-0"

PROVIDE LADDER WIRE OR METAL TIES, INSTALLED PER R608.1.2 OF THE 2012 NCRC, AND FULLY GROUT BETWEEN BRICK AND CONCRETE.



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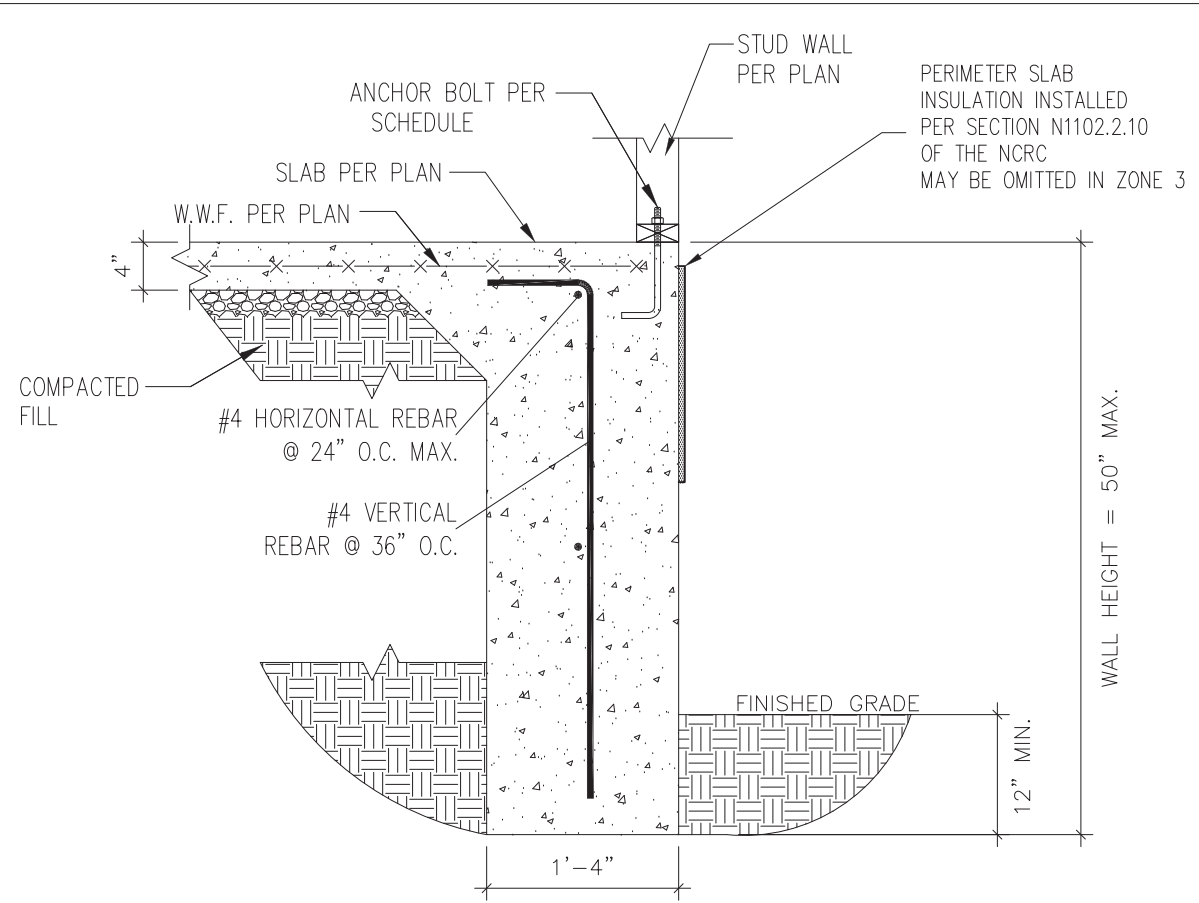
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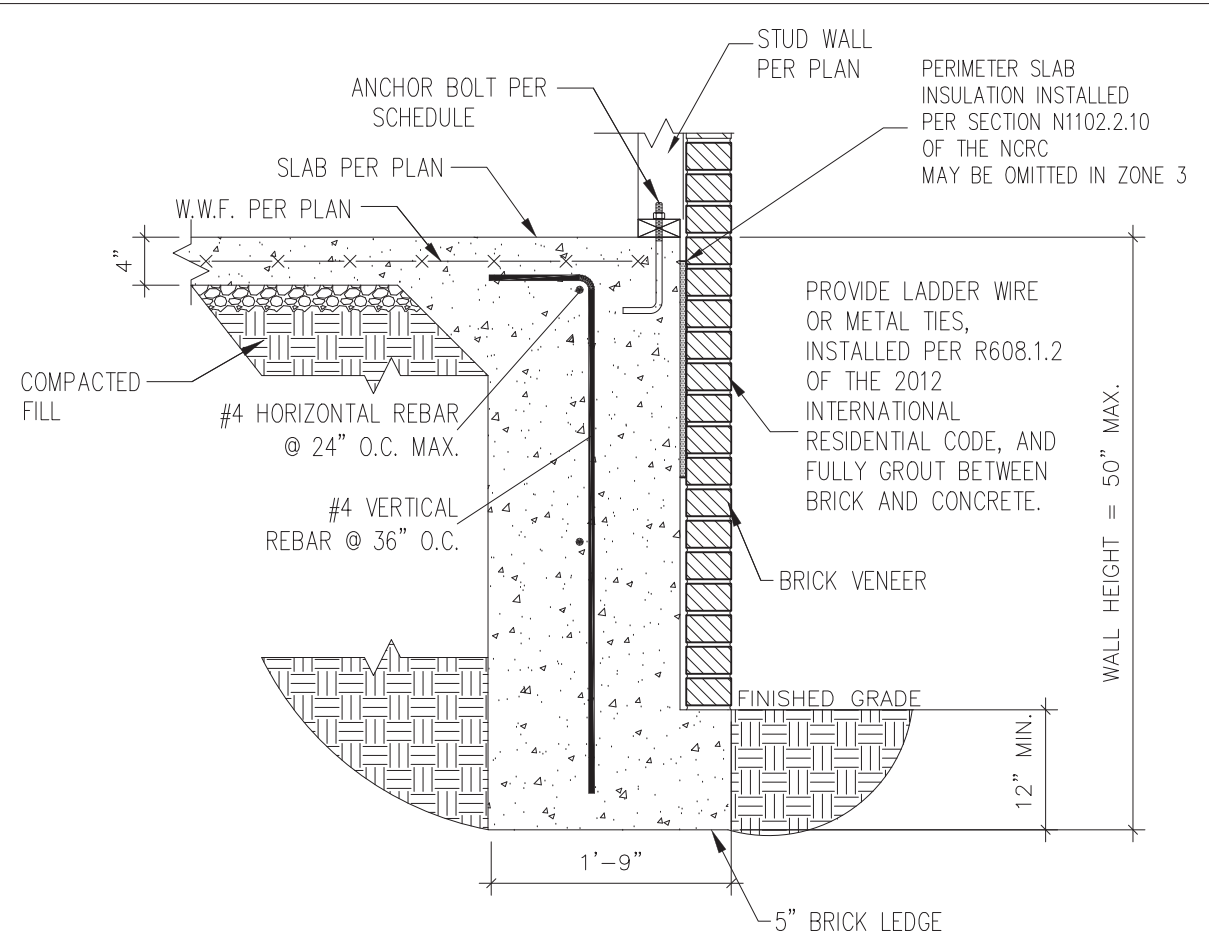
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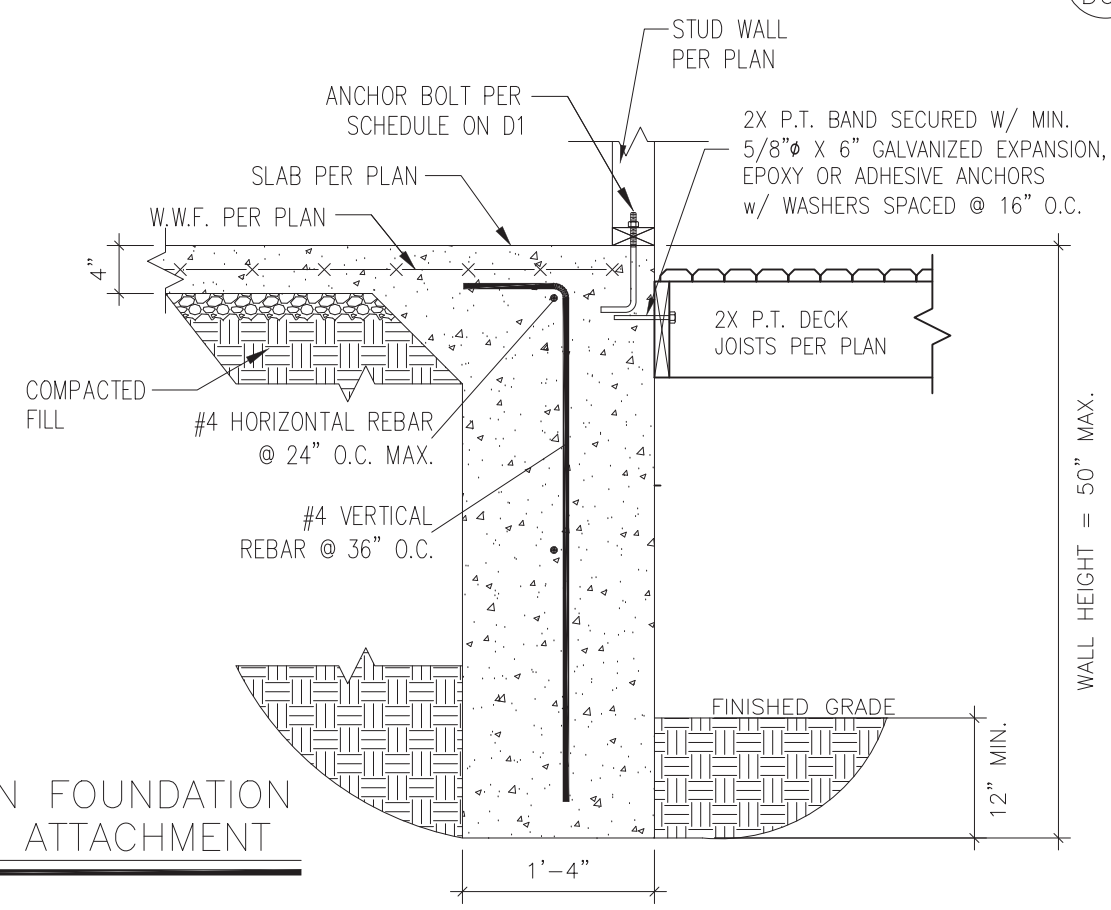
SHEET
D5s



1 TURNDOWN FOUNDATION
 D6s 3/4" = 1'-0"



2 TURNDOWN FOUNDATION W/ BRICK VENEER
 D6s 3/4" = 1'-0"

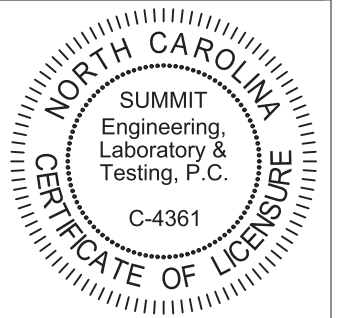


3 TURNDOWN FOUNDATION W/ DECK ATTACHMENT
 D6s 3/4" = 1'-0"



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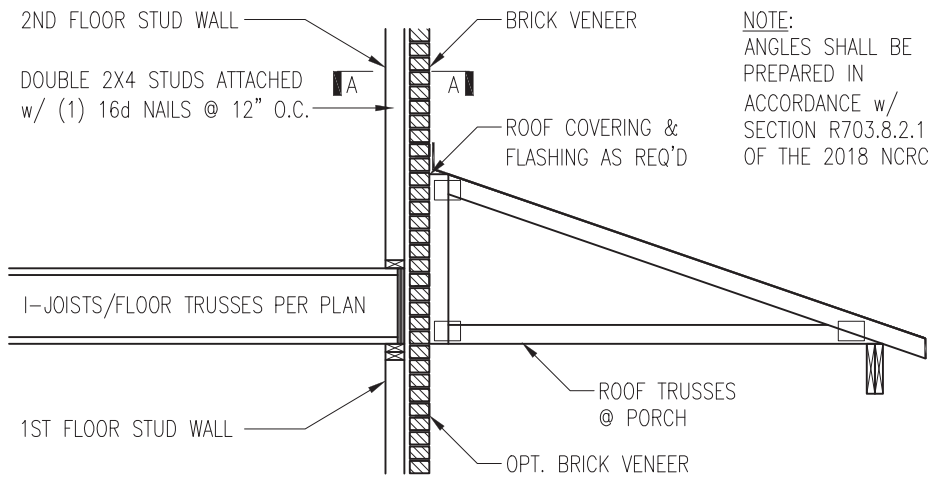
PROJECT
Standard Details
Stemwall Details
 CLIENT
Smith Douglas Homes
 110 Village Trail, Suite 215
 Woodstock, GA 30188

CURRENT DRAWING
 DATE: 2/18/20
 SCALE: NTS
 PROJECT #: 3832
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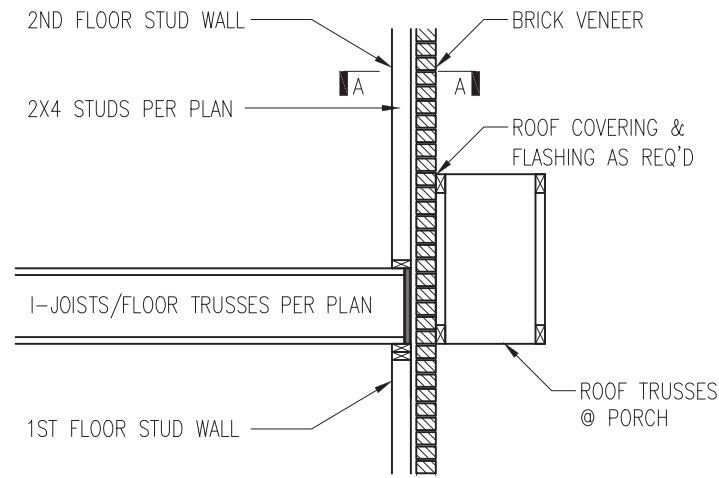
NO.	DATE	PROJECT #
0	1/7/16	3832

REFER TO COVER SHEET FOR A COMPLETE LIST OF REVISIONS

SHEET
D6s



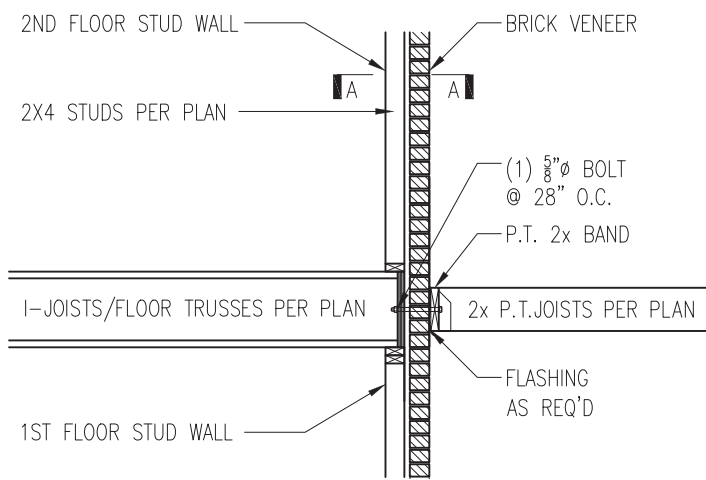
NOTE:
ANGLES SHALL BE PREPARED IN ACCORDANCE w/ SECTION R703.8.2.1 OF THE 2018 NCR



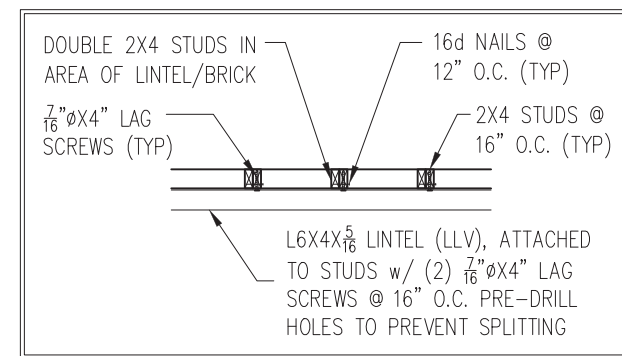
TRUSSES PERPENDICULAR TO STUD WALL

TRUSSES PARALLEL TO STUD WALL w/ CONTINUOUS BRICK VENEER

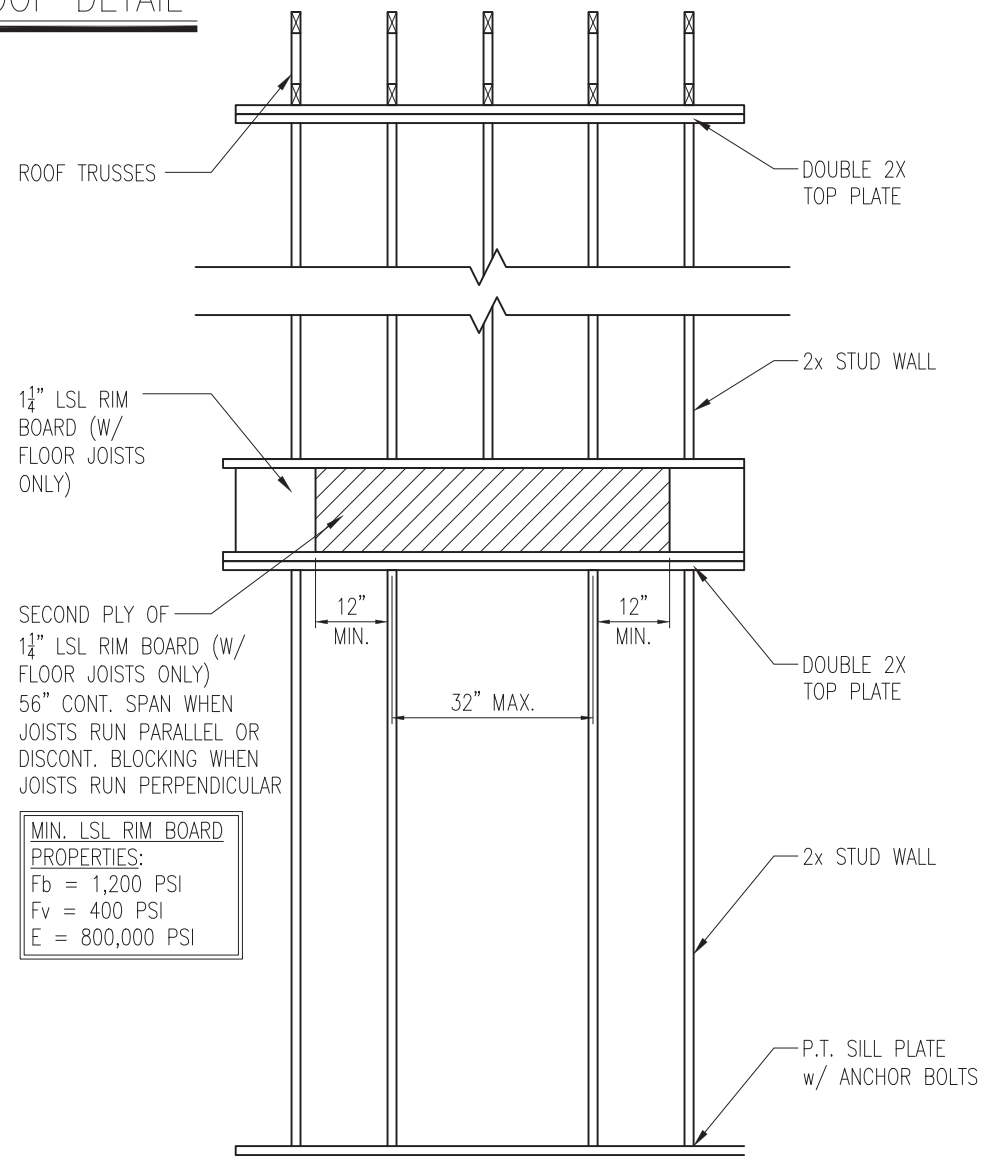
1 BRICK SUPPORT ABOVE STORAGE/PORCH ROOF DETAIL
D5f NTS



3 BALCONY JOIST ATTACHMENT
D5f NTS



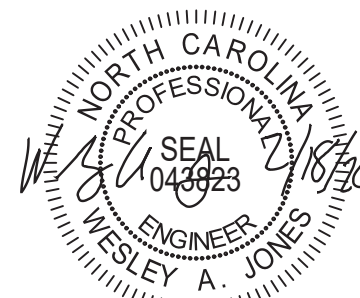
SECTION A-A
NTS



SECOND PLY OF 1 1/4\"/>

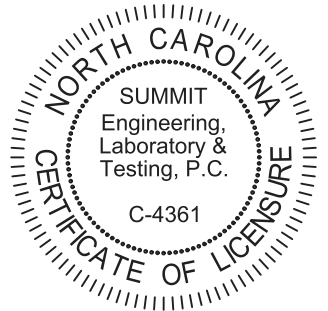
MIN. LSL RIM BOARD PROPERTIES:
Fb = 1,200 PSI
Fv = 400 PSI
E = 800,000 PSI

4 TYP. RANGE VENT FRAMING
D5f VENTED TO EXTERIOR WALL



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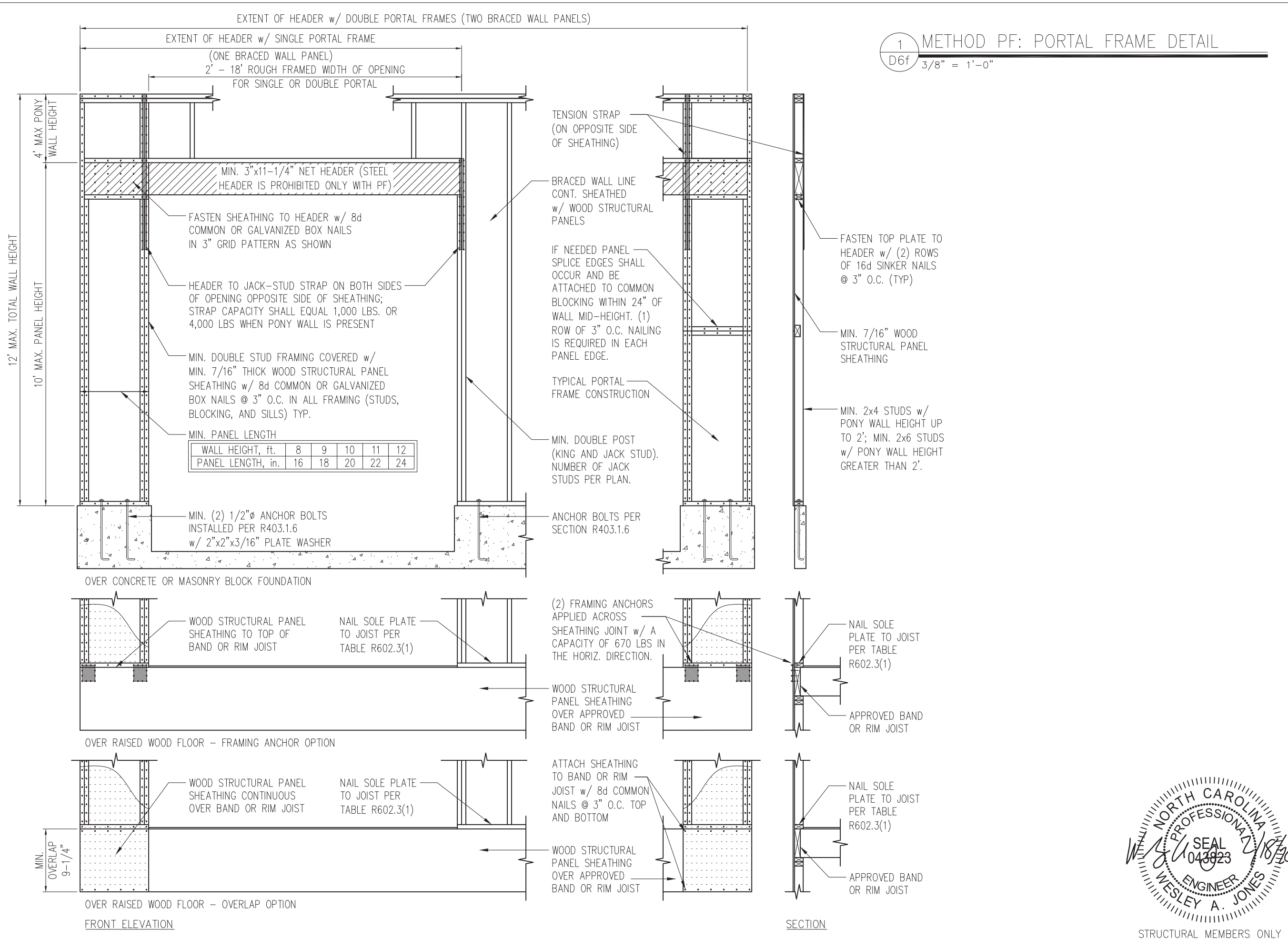
PROJECT
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D5f



1 METHOD PF: PORTAL FRAME DETAIL
D6f 3/8" = 1'-0"

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NORTH CAROLINA
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Engineering,
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Testing, P.C.
C-4361
CERTIFICATE OF LICENSURE

PROJECT
Standard Details
Framing Details - Bracing

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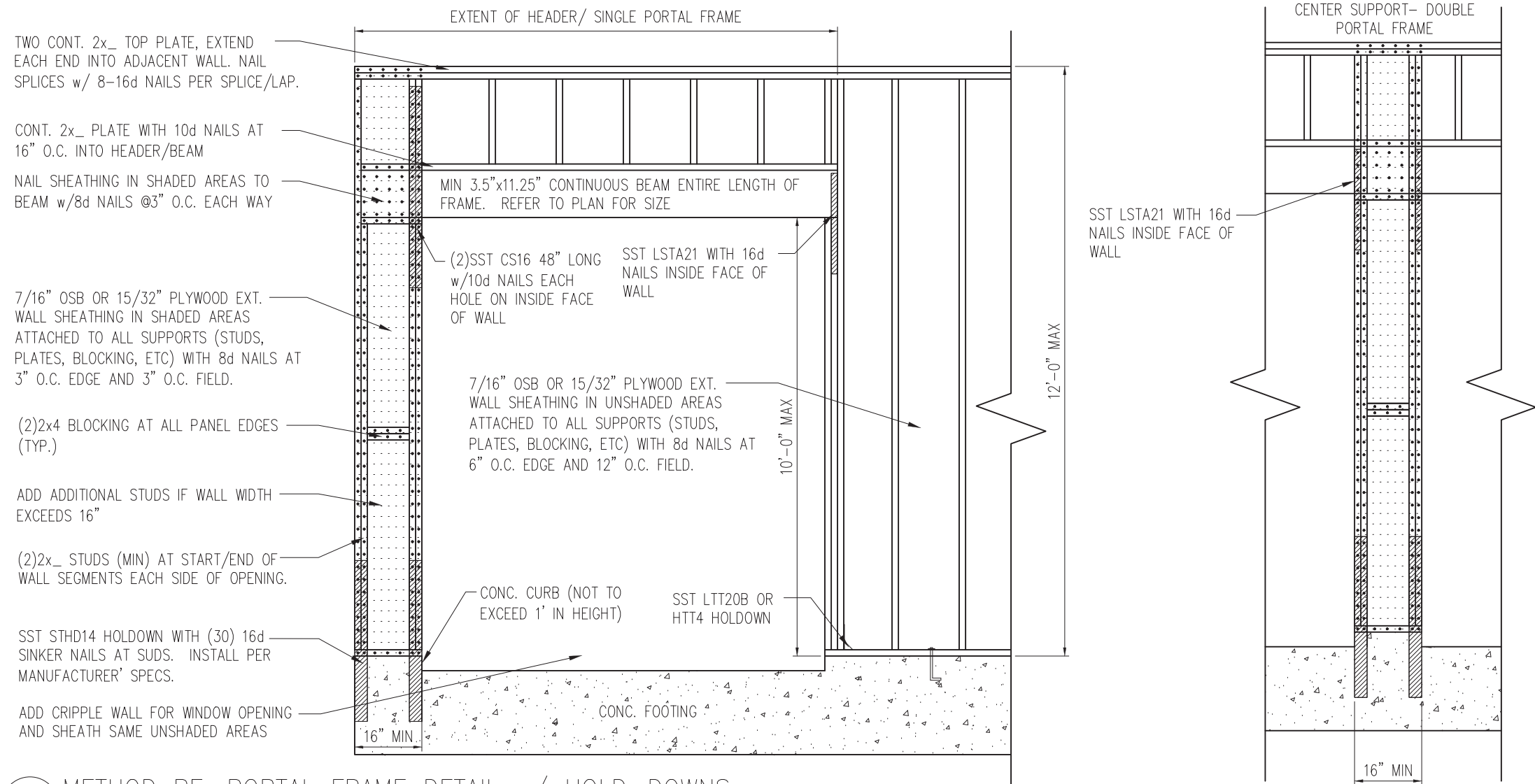
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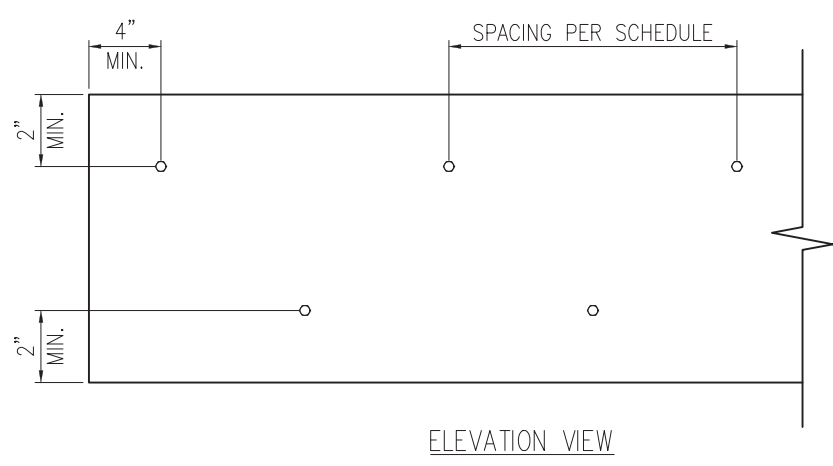
NORTH CAROLINA
PROFESSIONAL
ENGINEER
WESLEY A. JONES
SEAL 043823

SHEET
D6f

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1 METHOD PF: PORTAL FRAME DETAIL w/ HOLD-DOWNS
 D7f 3/4" = 1'-0"



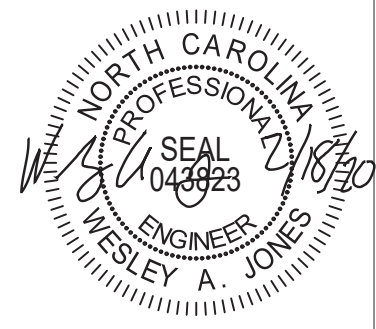
2 MULTI-PLY BEAM CONNECTION DETAIL
 D7f N.T.S

MINIMUM FASTENING REQUIREMENTS FOR TOP- AND SIDE-LOADED MEMBERS

FASTENER TYPE	LVL DEPTH	3/4" WIDE		5/4" WIDE		7" WIDE	
		2-Ply 1 3/4"	3-Ply 1 3/4"	1 3/4" + 3 1/2"	4-Ply 1 3/4"	2-Ply 1 3/4" + 3 1/2"	2-Ply 3 1/2"
10d (0.128" x 3") Nails	7/4" ≤ d < 14"	3 rows @ 12" o.c.	3 rows @ 12" o.c. (ES)	3 rows @ 12" o.c.	-	3 rows @ 12" o.c. (ES)	-
	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 3 1/2") Nails	7/4" ≤ d < 14"	2 rows @ 12" o.c.	2 rows @ 12" o.c. (ES)	2 rows @ 12" o.c.	-	2 rows @ 12" o.c. (ES)	-
	d ≥ 14"	3 rows @ 12" o.c.	3 rows @ 12" o.c. (ES)	3 rows @ 12" o.c.	-	3 rows @ 12" o.c. (ES)	-
1/2" Through Bolts	d ≥ 7/4"	2 rows @ 24" o.c.	2 rows @ 24" o.c.		2 rows @ 24" o.c.		
SDS 1/4" x 3 1/2", WS35, 3 3/8" TrussLok		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		-	-	-	2 rows @ 24" o.c. (ES)		
5" TrussLok		-	2 rows @ 24" o.c.		-		
6 3/4" TrussLok		-	-	-	2 rows @ 24" o.c.		

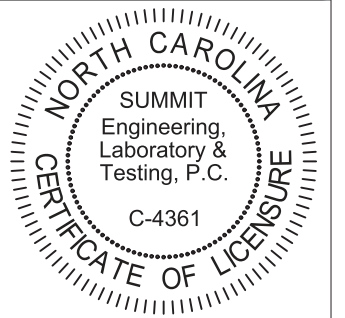
NOTES:

- 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.
- Minimum fastening requirements for depths less than 7/4" require special consideration. Please contact your technical representative.
- Three general rules for staggering or offsetting for a certain fastener schedule:
 - If staggering or offsetting is not referenced, then none is required;
 - 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
 - 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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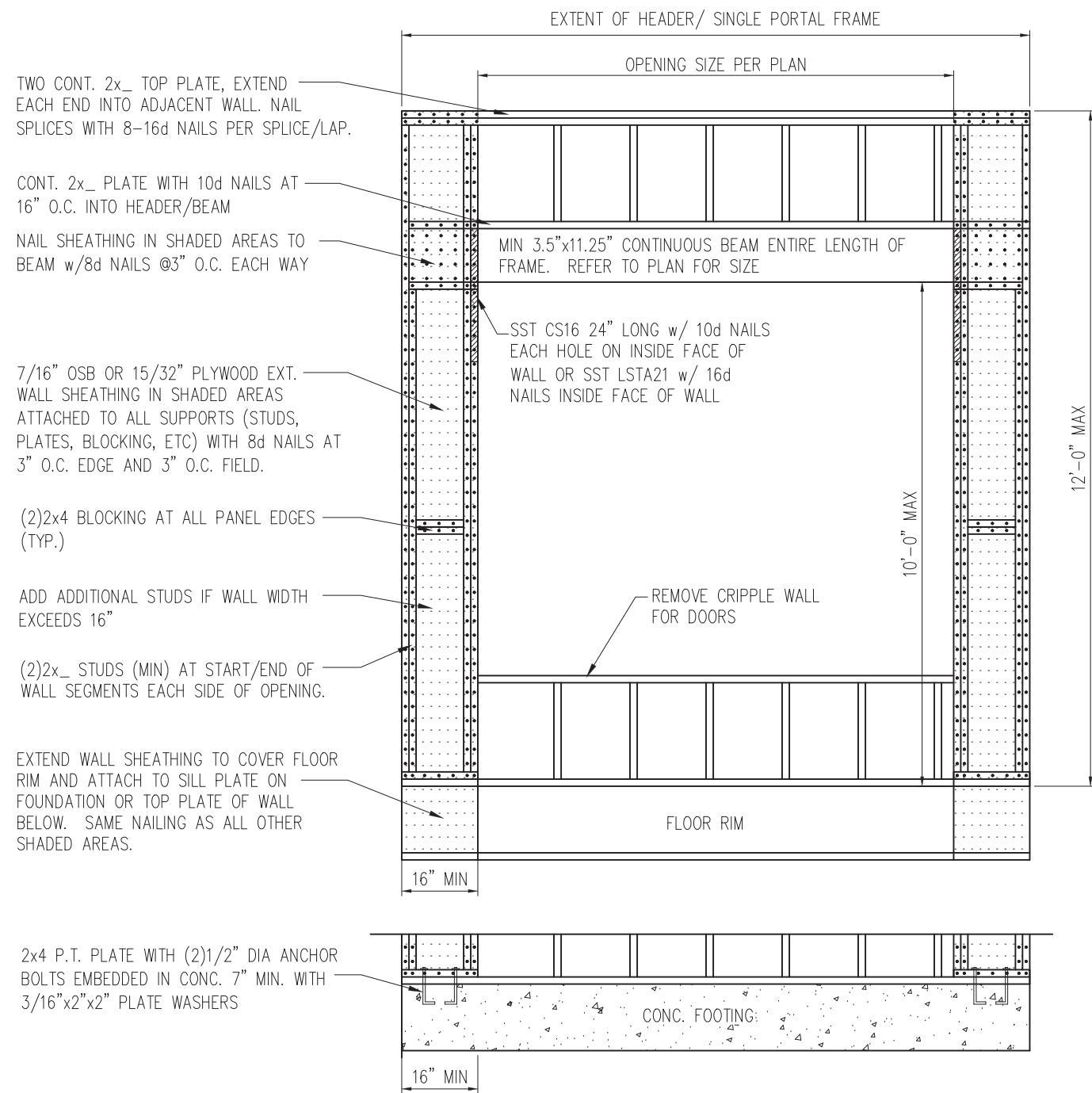


PROJECT
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SHEET
D7f



TWO CONT. 2x_ TOP PLATE, EXTEND EACH END INTO ADJACENT WALL. NAIL SPLICES WITH 8-16d NAILS PER SPLICE/LAP.

CONT. 2x_ PLATE WITH 10d NAILS AT 16\" O.C. INTO HEADER/BEAM

NAIL SHEATHING IN SHADED AREAS TO BEAM w/8d NAILS @3\" O.C. EACH WAY

7/16\" OSB OR 15/32\" PLYWOOD EXT. WALL SHEATHING IN SHADED AREAS ATTACHED TO ALL SUPPORTS (STUDS, PLATES, BLOCKING, ETC) WITH 8d NAILS AT 3\" O.C. EDGE AND 3\" O.C. FIELD.

(2)2x4 BLOCKING AT ALL PANEL EDGES (TYP.)

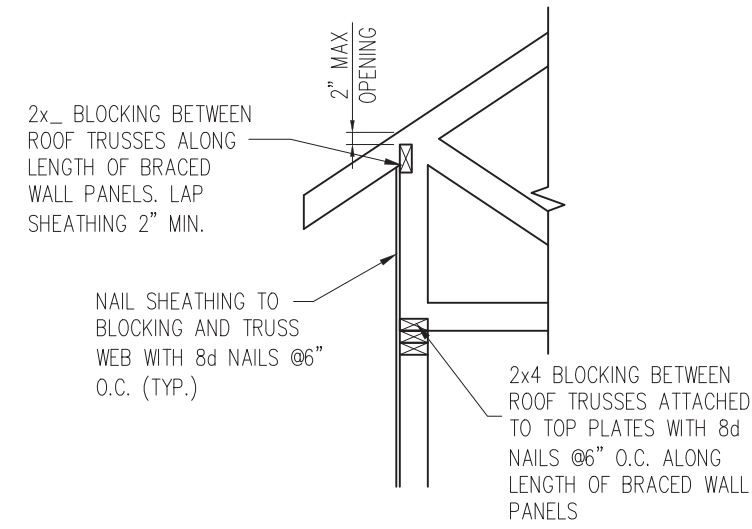
ADD ADDITIONAL STUDS IF WALL WIDTH EXCEEDS 16\"

(2)2x_ STUDS (MIN) AT START/END OF WALL SEGMENTS EACH SIDE OF OPENING.

EXTEND WALL SHEATHING TO COVER FLOOR RIM AND ATTACH TO SILL PLATE ON FOUNDATION OR TOP PLATE OF WALL BELOW. SAME NAILING AS ALL OTHER SHADED AREAS.

2x4 P.T. PLATE WITH (2)1/2\" DIA ANCHOR BOLTS EMBEDDED IN CONC. 7\" MIN. WITH 3/16\"x2\"x2\" PLATE WASHERS

1 METHOD PF: PORTAL FRAME DETAIL
D8f 3/4\" = 1'-0\" OPENINGS UNDER 8'-0\"

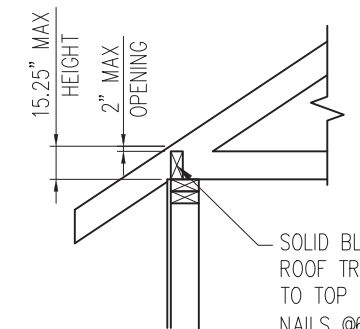


2x_ BLOCKING BETWEEN ROOF TRUSSES ALONG LENGTH OF BRACED WALL PANELS. LAP SHEATHING 2\" MIN.

NAIL SHEATHING TO BLOCKING AND TRUSS WEB WITH 8d NAILS @6\" O.C. (TYP.)

2x4 BLOCKING BETWEEN ROOF TRUSSES ATTACHED TO TOP PLATES WITH 8d NAILS @6\" O.C. ALONG LENGTH OF BRACED WALL PANELS

HEEL HEIGHT GREATER THAN 15.25\"



*BLOCKING IS NOT REQUIRED WITH HEEL HEIGHTS LESS THAN 9.25\"

SOLID BLOCKING BETWEEN ROOF TRUSSES ATTACHED TO TOP PLATES WITH 8d NAILS @6\" O.C. ALONG LENGTH OF BRACED WALL PANELS

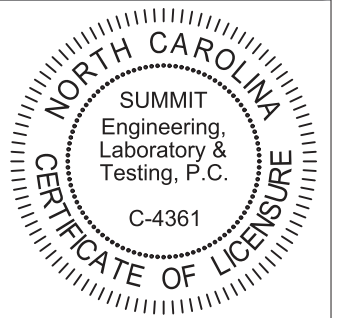
HEEL HEIGHT LESS THAN 15.25\" *

2 TYP. WALL PANEL TO ROOF TRUSS CONNECTION
D8f 1\" = 1'-0\"



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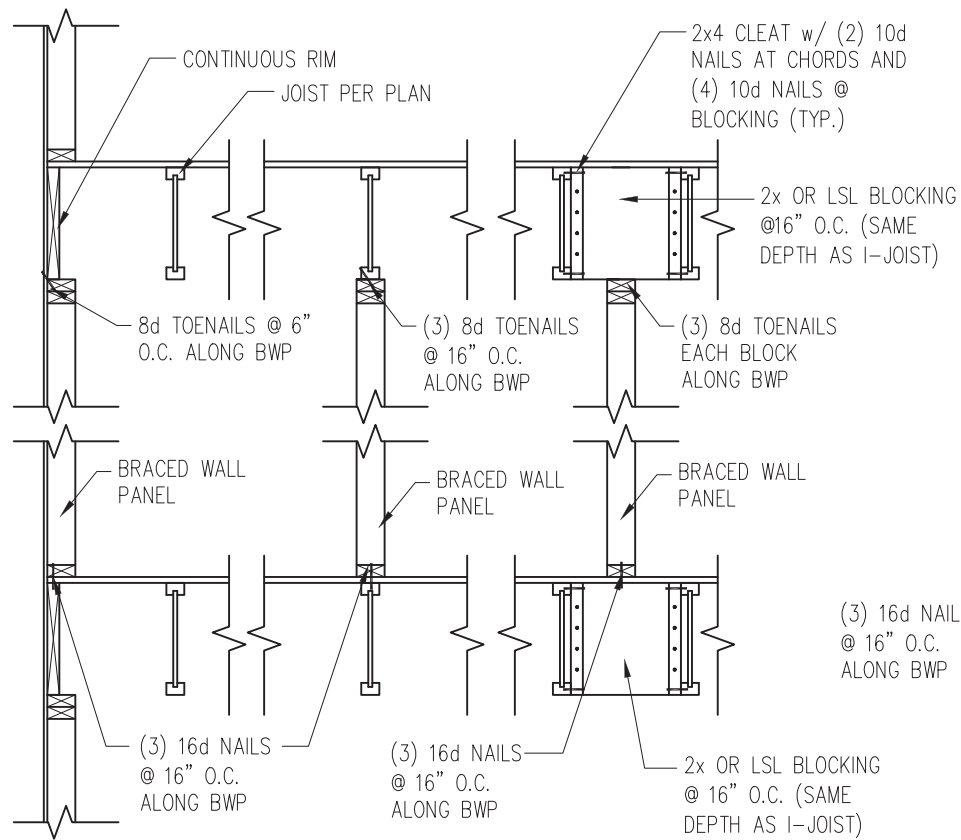
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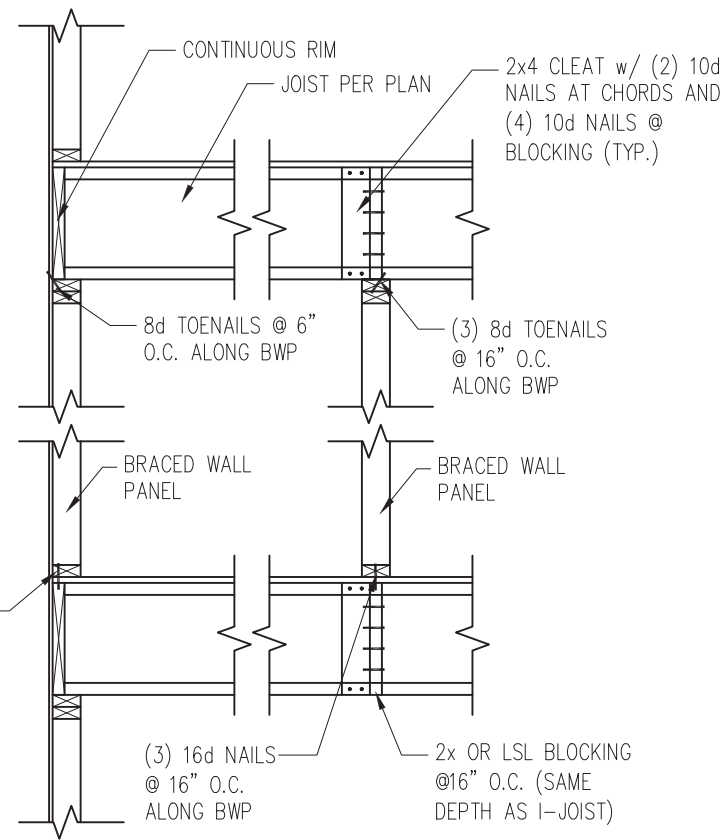
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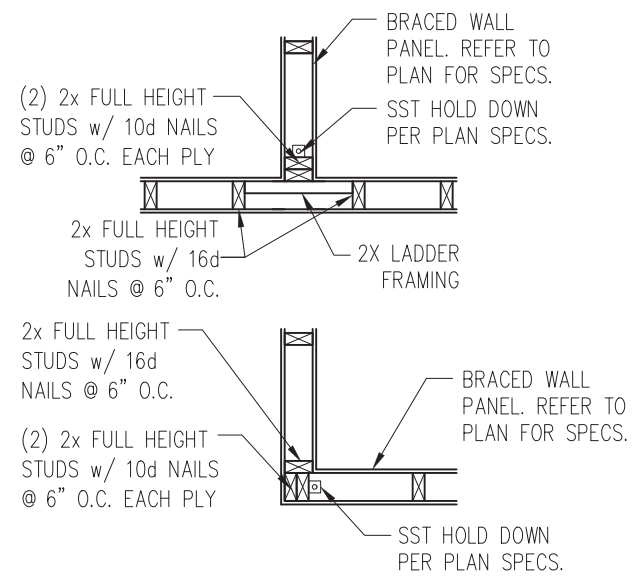
SHEET
D8f



JOISTS PARALLEL TO BRACED WALLS

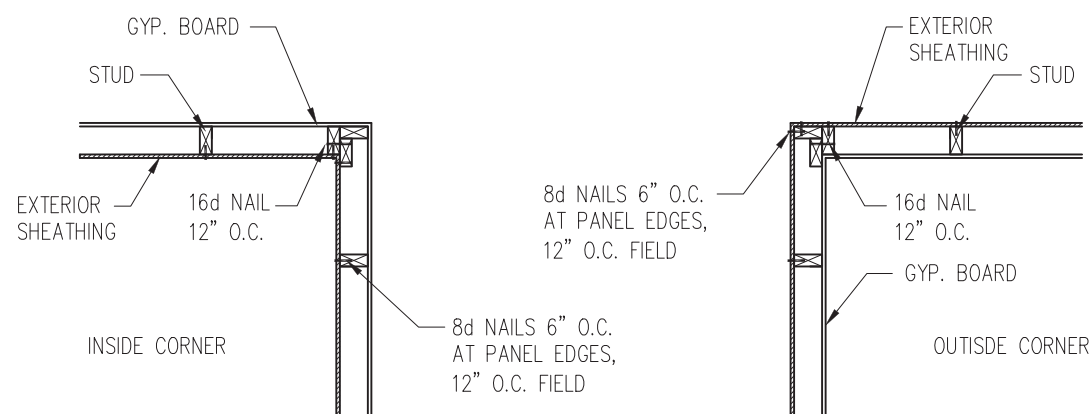


JOISTS PERPENDICULAR TO BRACED WALLS

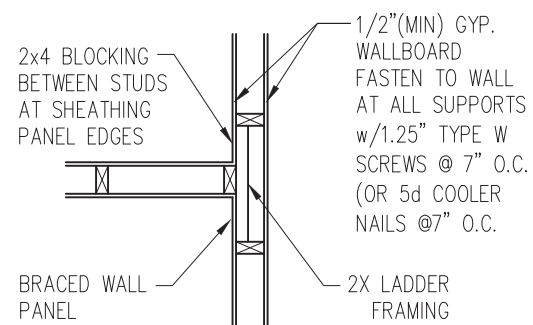


4 TYP. HOLD DOWN DETAIL
D9f 1" = 1'-0"

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



2 TYP. EXTERIOR CORNER FRAMING
D9f 1" = 1'-0"

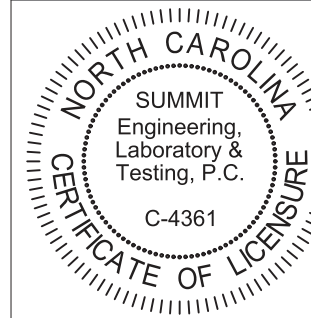


3 INTERIOR 3-STUD WALL INTERSECTION
D9f 1" = 1'-0"



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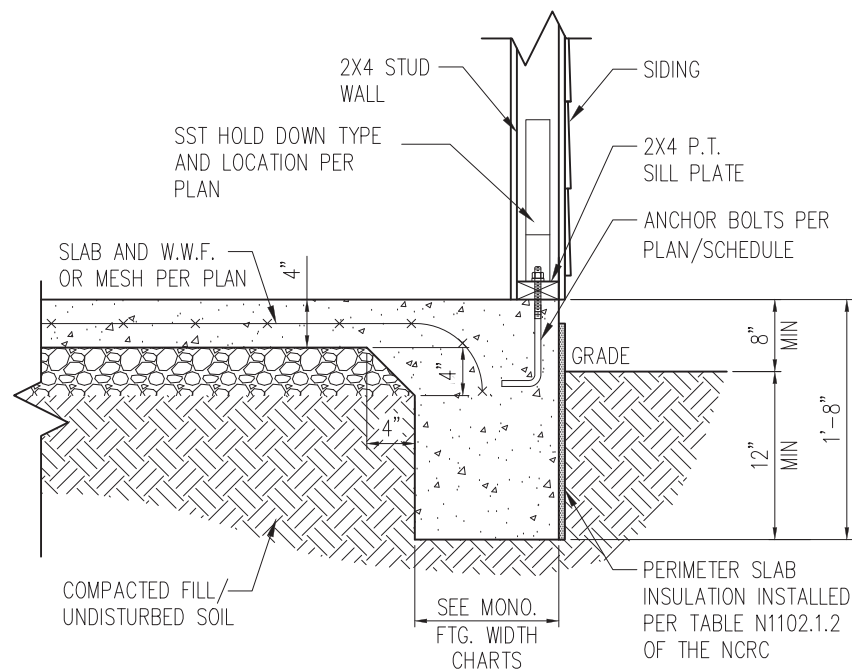
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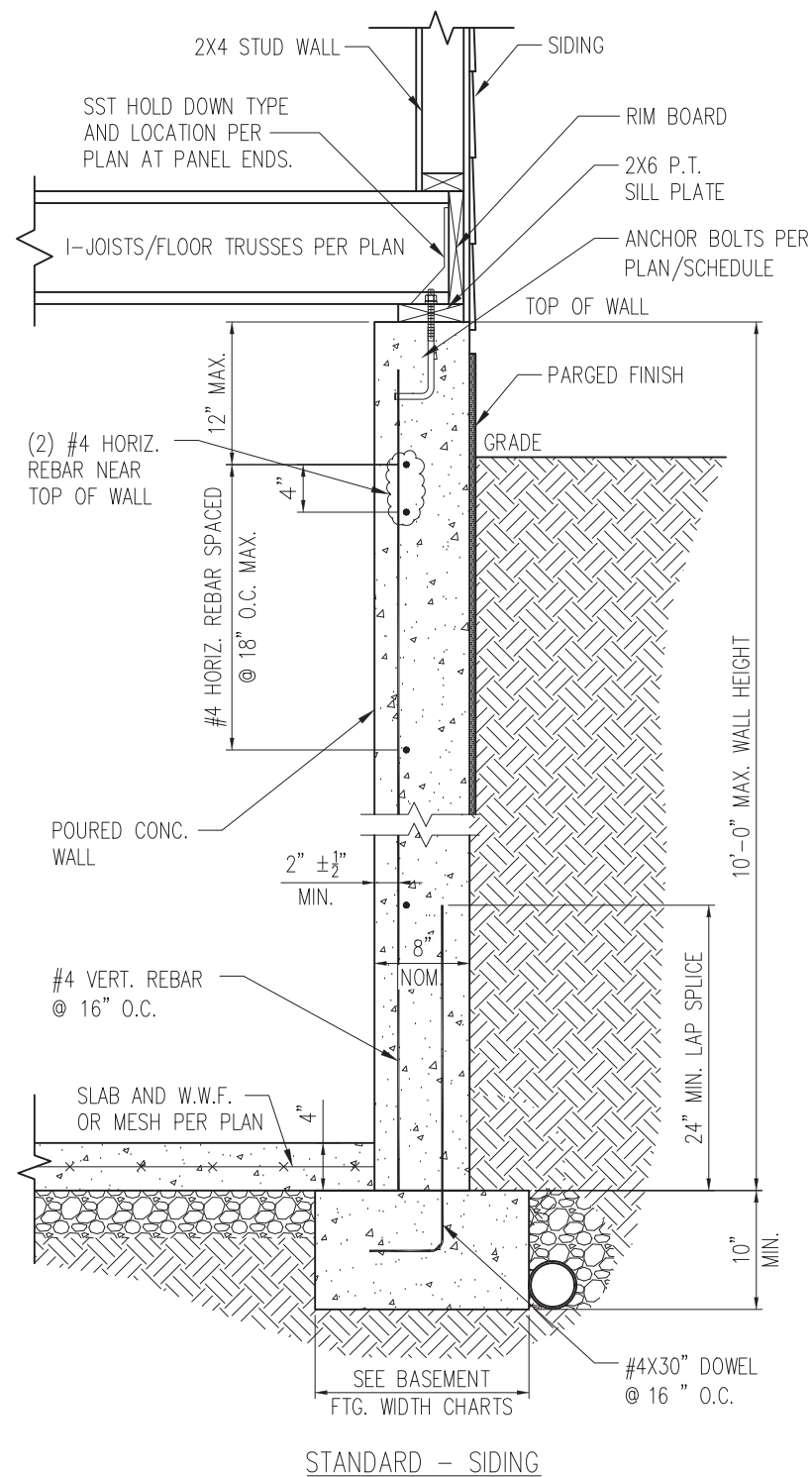
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D9f



1 SLAB DETAIL w/ HOLD-DOWN
 D10f 3/4" = 1'-0"

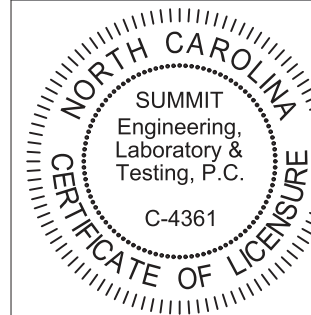


2 BASEMENT FOUNDATION WALL DETAIL W/ HOLD-DOWN
 D10f 3/4" = 1'-0"



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