

BUFFINGTON

CANE MILL ESTATES
LOT 28



PLAN ID: 060120.1201

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 & DETAILS
A5.2	SECOND FLOOR PLAN & DETAILS
A6.1	ROOF PLAN
A7.2-A7.3	ELECTRICAL PLANS

AREA TABULATION	
FIRST FLOOR	1100
SECOND FLOOR	1448
TOTAL	2548
GARAGE	400
FRONT PORCH (COVERED)	86
REAR PATIO	9

PLAN REVISIONS			
DATE	BY	REVISION	PAGE #
10/2/2019	AW	PCR #3254 Reduced island framing depth 1" to accommodate 48" countertop.	A1.5
10/2/2019	AW	PCR #3256 showed Obath switches on door adjacent to W.I.C.	A7.3
10/2/2019	AW	PCR #3247 Added 3-way switches to Owner's Suite light when optional Laundry door is chosen	A7.3
10/8/2019	AW	PCR #3292 moved kitchen light switches over to clear backsplash bullnose on wall adjacent to stairs	A7.2
10/16/2019	AW	Revised location for tankless hot water heater	A3.1, A5.1, A7.2
11/1/2019	AW	PCR #3314 Relocated switch to attic light for the B&C roof massings	A7.2
2/26/2020	AW	PCR #3638 Added 1x10 on front elevations M & T	A1.16, A1.19
6/1/2020	MM	PCR #3765 Added note to return veneer ILO siding on second floor returns above front door.	A1.6, A1.11, A1.15, A1.17
8/11/2020	AW	Updated elevs M & T to remove cedar columns	A1.16, A1.19
10/1/2020	AW	PCR #4084 Removed opt. fireplace in corner location (for 10/1/20 release)	A3.1, A5.1, A7.2, A8.1
11/6/2020	MM	Removed overhang at front porch	A1.1-A1.19, A6.1-A6.1.2
12/1/2020	MM	Shifted upper run of stairs 2" from landing towards outside of house	A5.1, A5.2
12/1/2020	MM	PCR #4239 Changed 2x6 walls at Owner's Bath vanity & WC exterior wall to 2x4 walls	A5.2, A5.2.1

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 28



ALL NON-MASONRY RETURNS TO BE HORIZONTAL SIDING

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

DATE	BY	REVISION



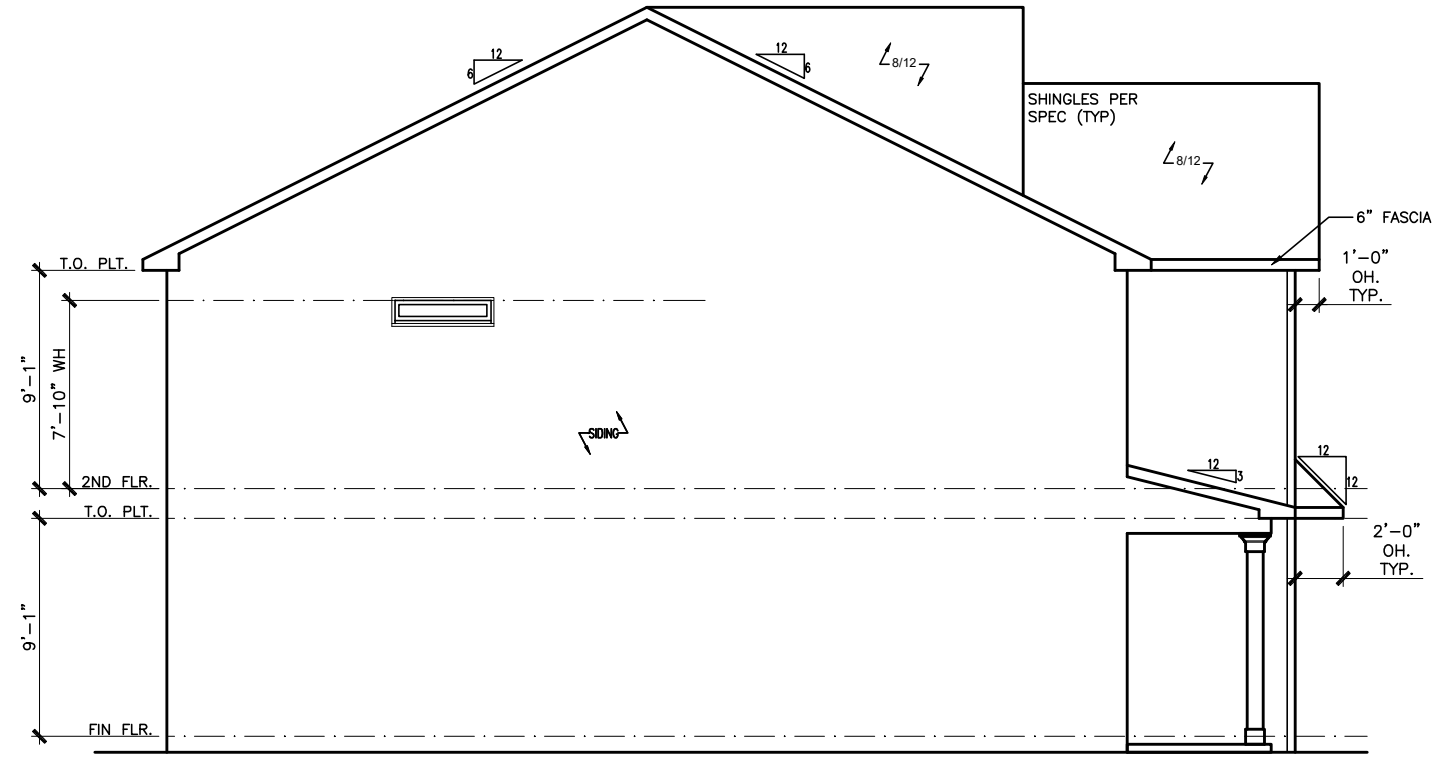
ELEVATIONS
FRONT ELEVATION
BUFFINGTON

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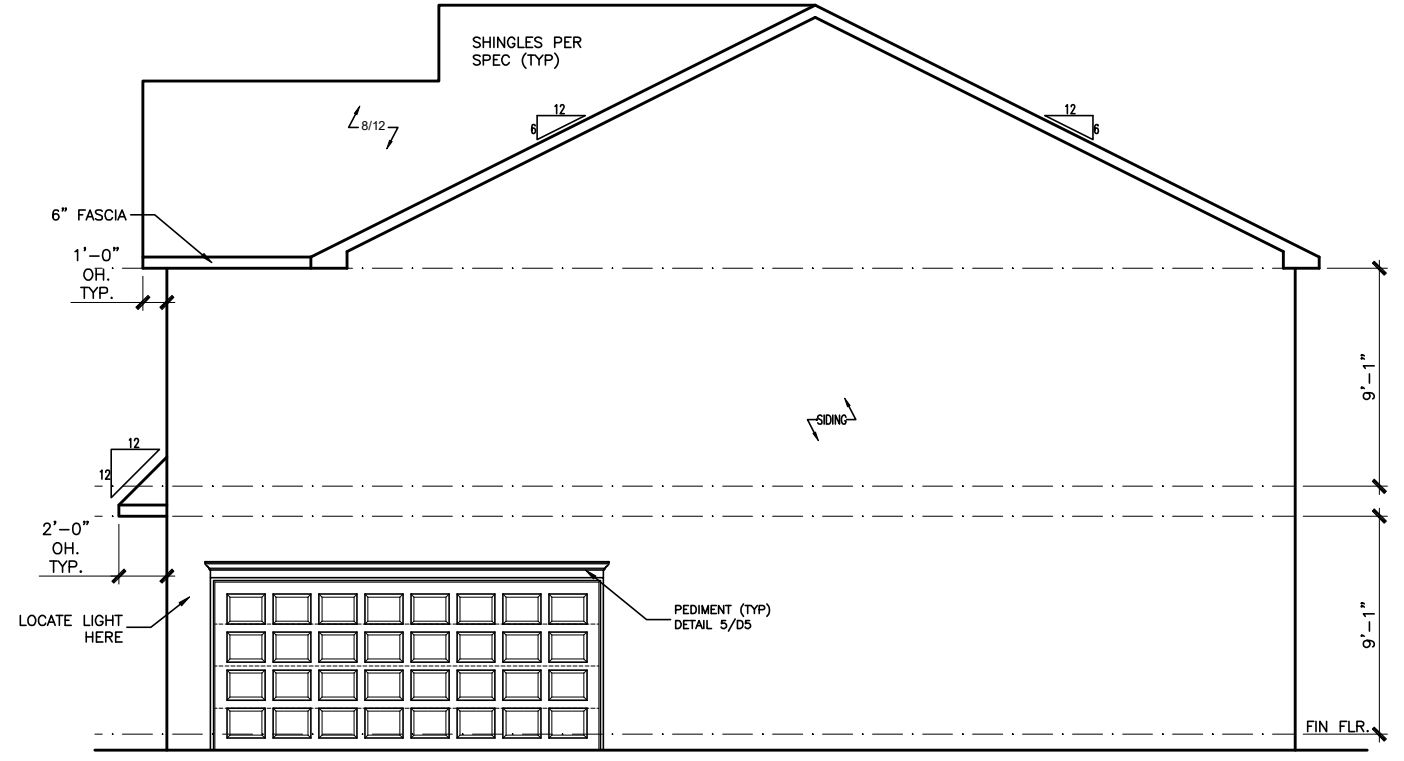
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PLAN ID:	
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PAGE NO: A1.1	

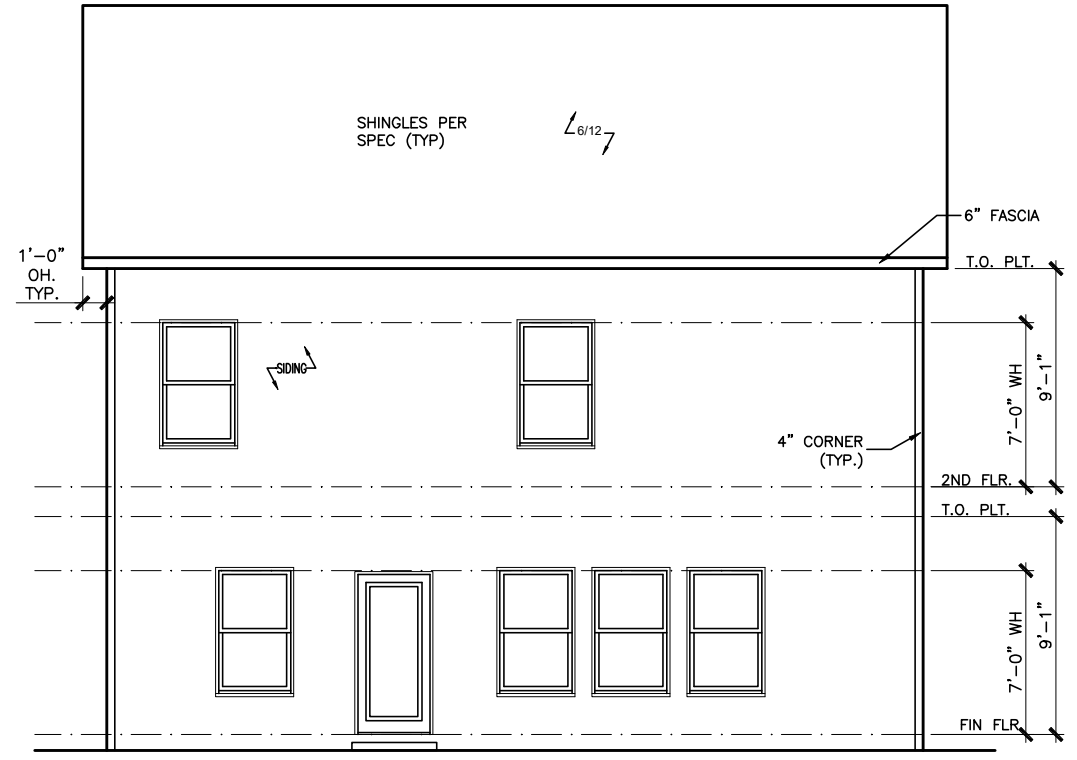
CANE MILL ESTATES LOT 28



LEFT ELEVATION "D"
SCALE: 1/8" = 1'-0"



RIGHT ELEVATION "D"
SCALE: 1/8" = 1'-0"



REAR ELEVATION "D"
SCALE: 1/8" = 1'-0"

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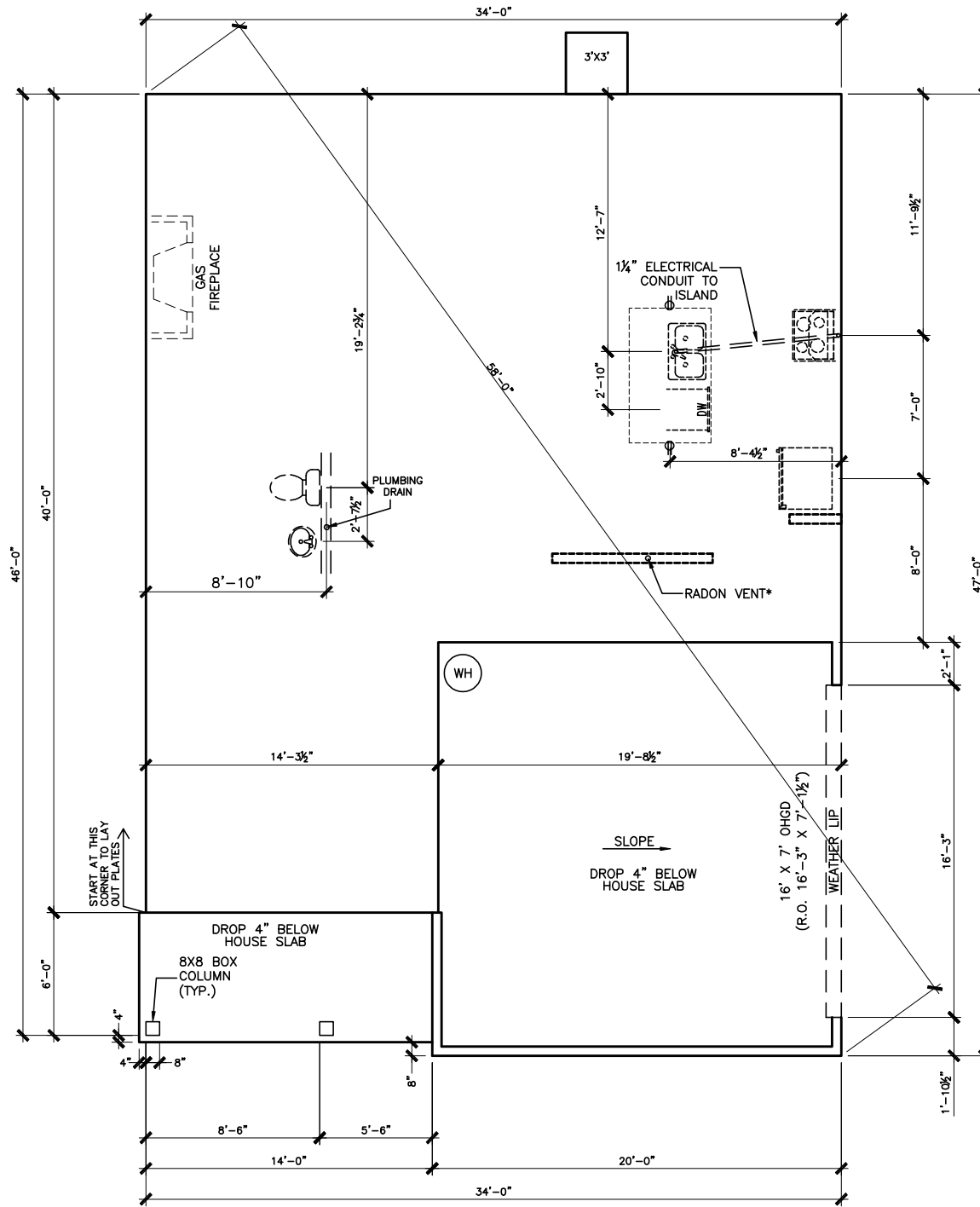
ELEVATIONS
SIDES AND REAR
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CANE MILL ESTATES LOT 28



SLAB PLAN

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

*RADON VENT PROVIDED
PER LOCAL CODE

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

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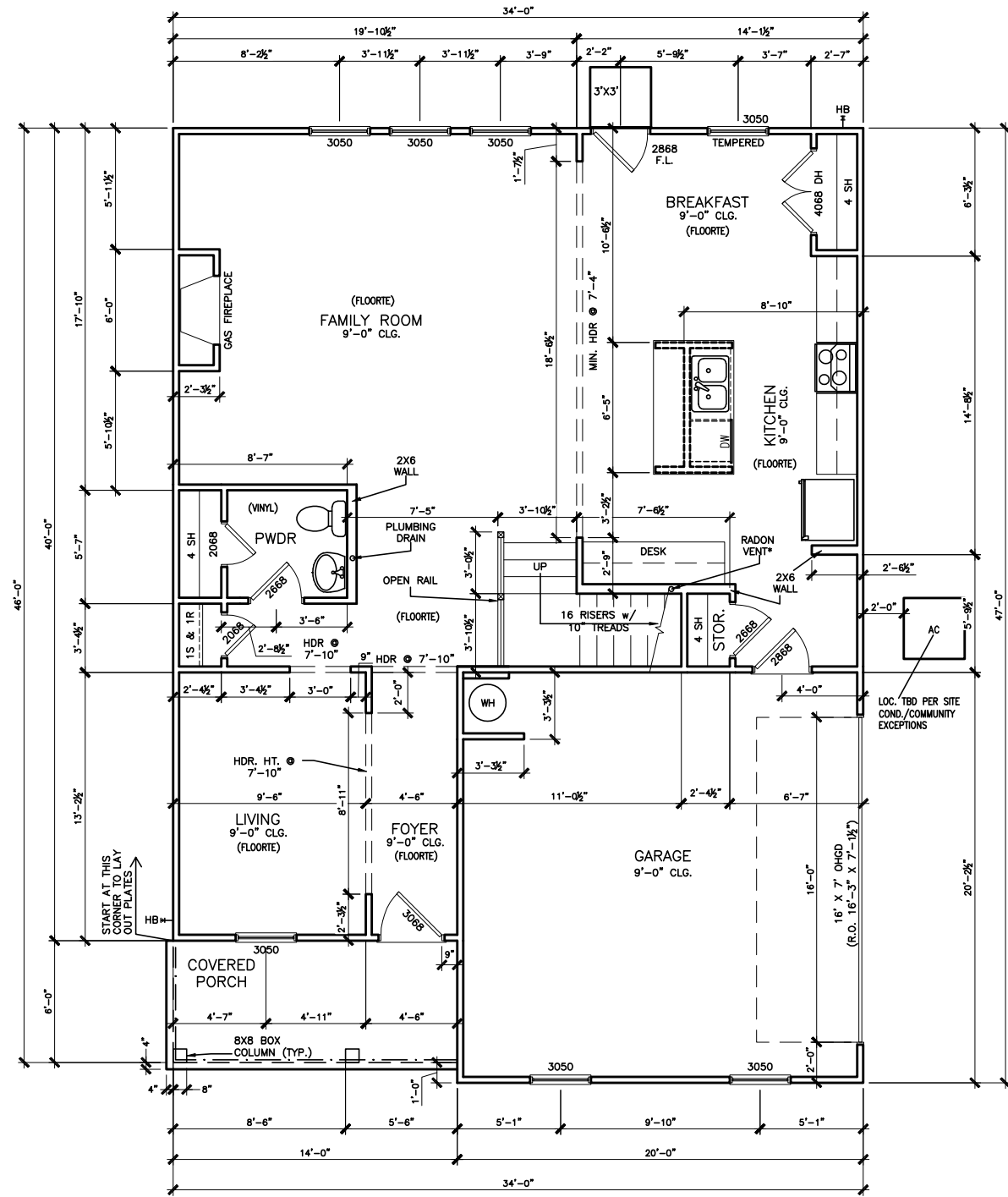
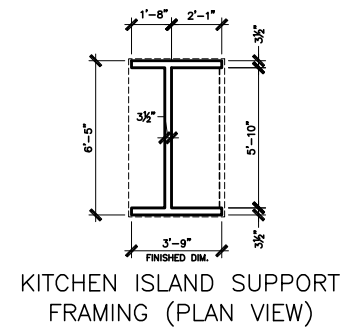
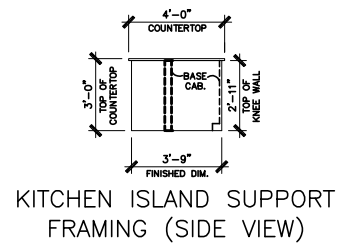
FOUNDATION PLAN
SLAB PLAN
BUFFINGTON

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QUALITY | INTEGRITY | VALUE

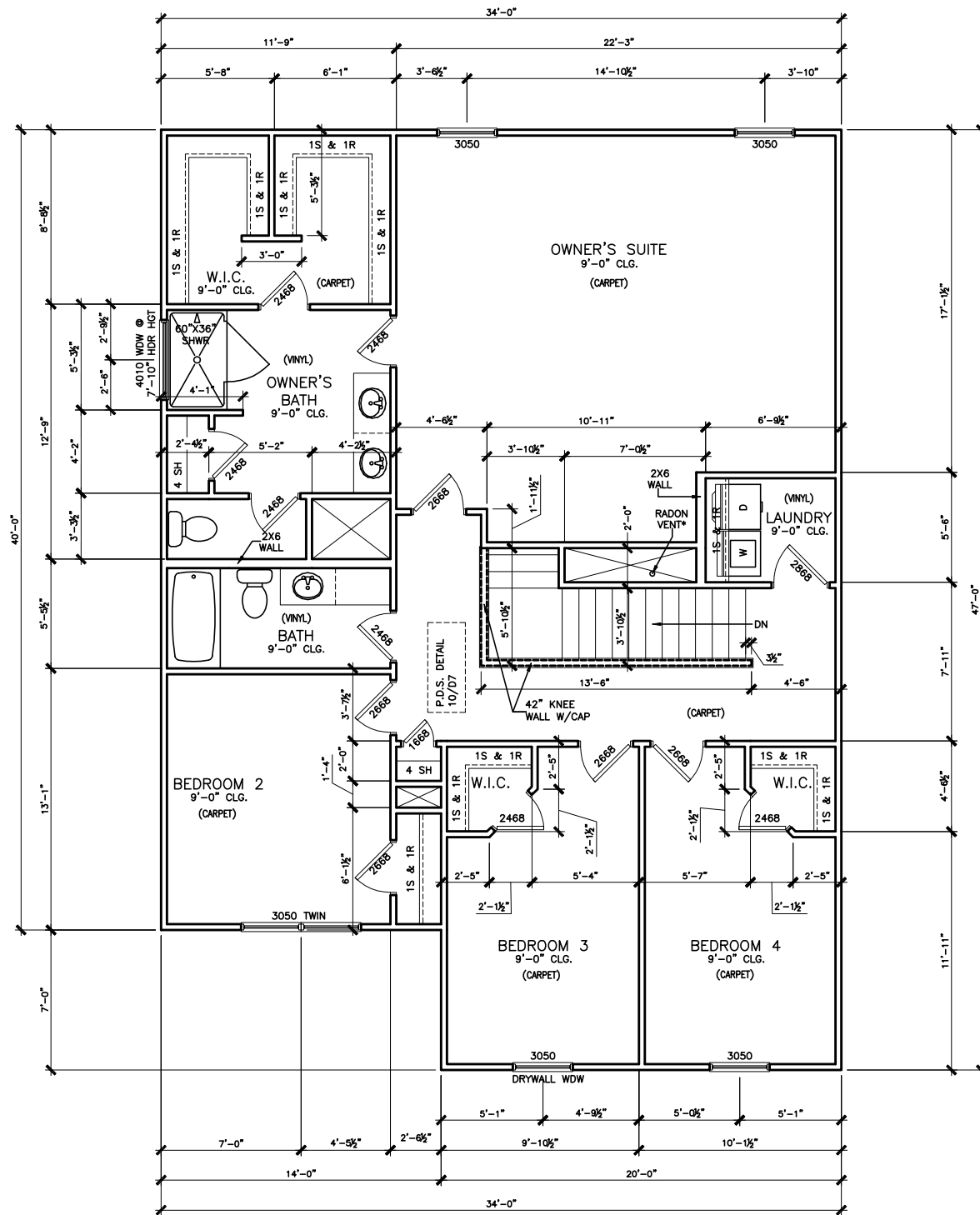
FLOOR PLAN
FIRST FLOOR
BUFFINGTON

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PAGE NO: A5.1	

CANE MILL ESTATES LOT 28



*RADON VENT PROVIDED
PER LOCAL CODE

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

SECOND FLOOR PLAN
SCALE: 1/8" = 1'-0"

DATE	REVISION	BY



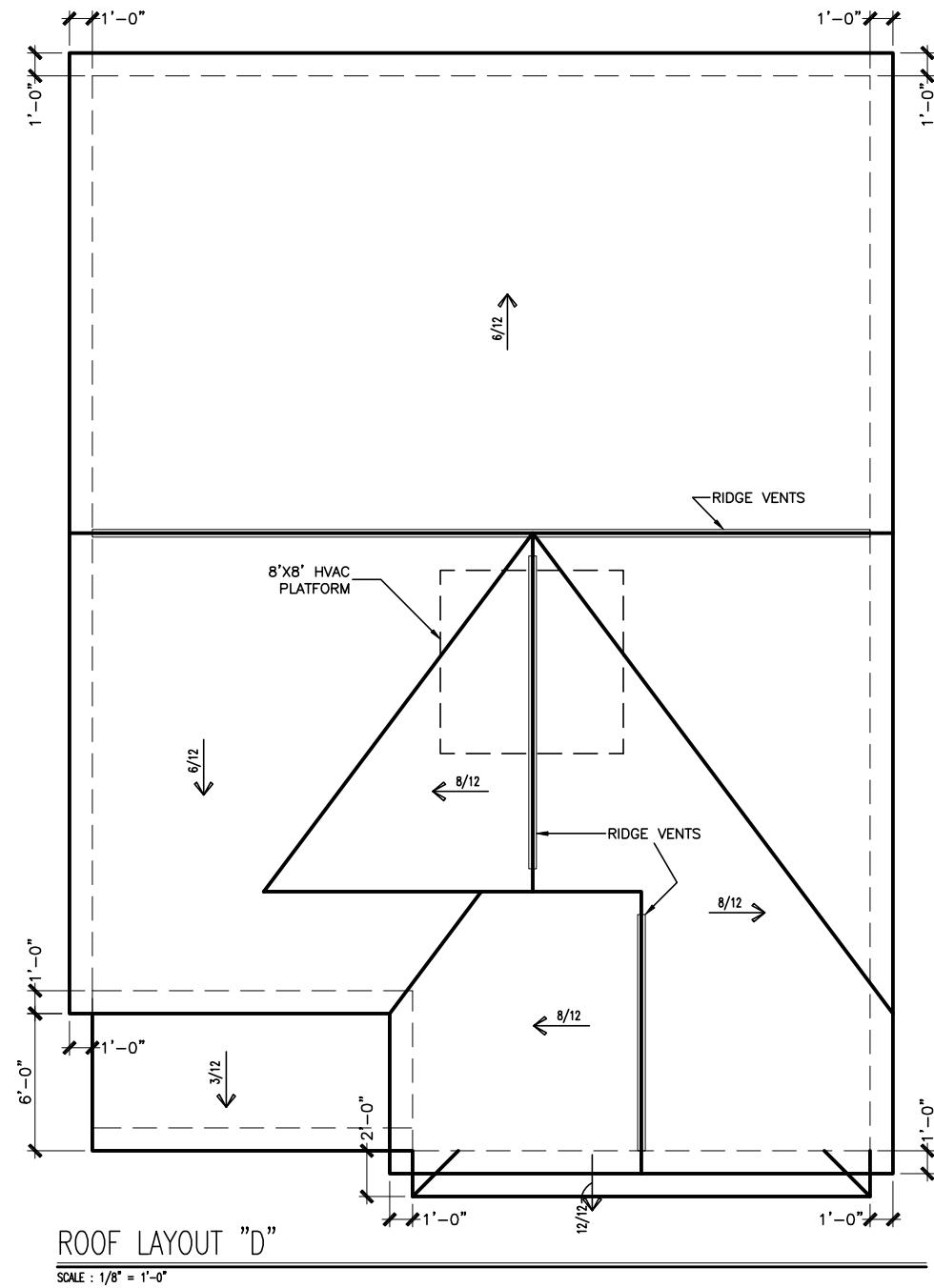
FLOOR PLANS
SECOND FLOOR
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CANE MILL ESTATES LOT 28



ROOF LAYOUT "D"
SCALE : 1/8" = 1'-0"

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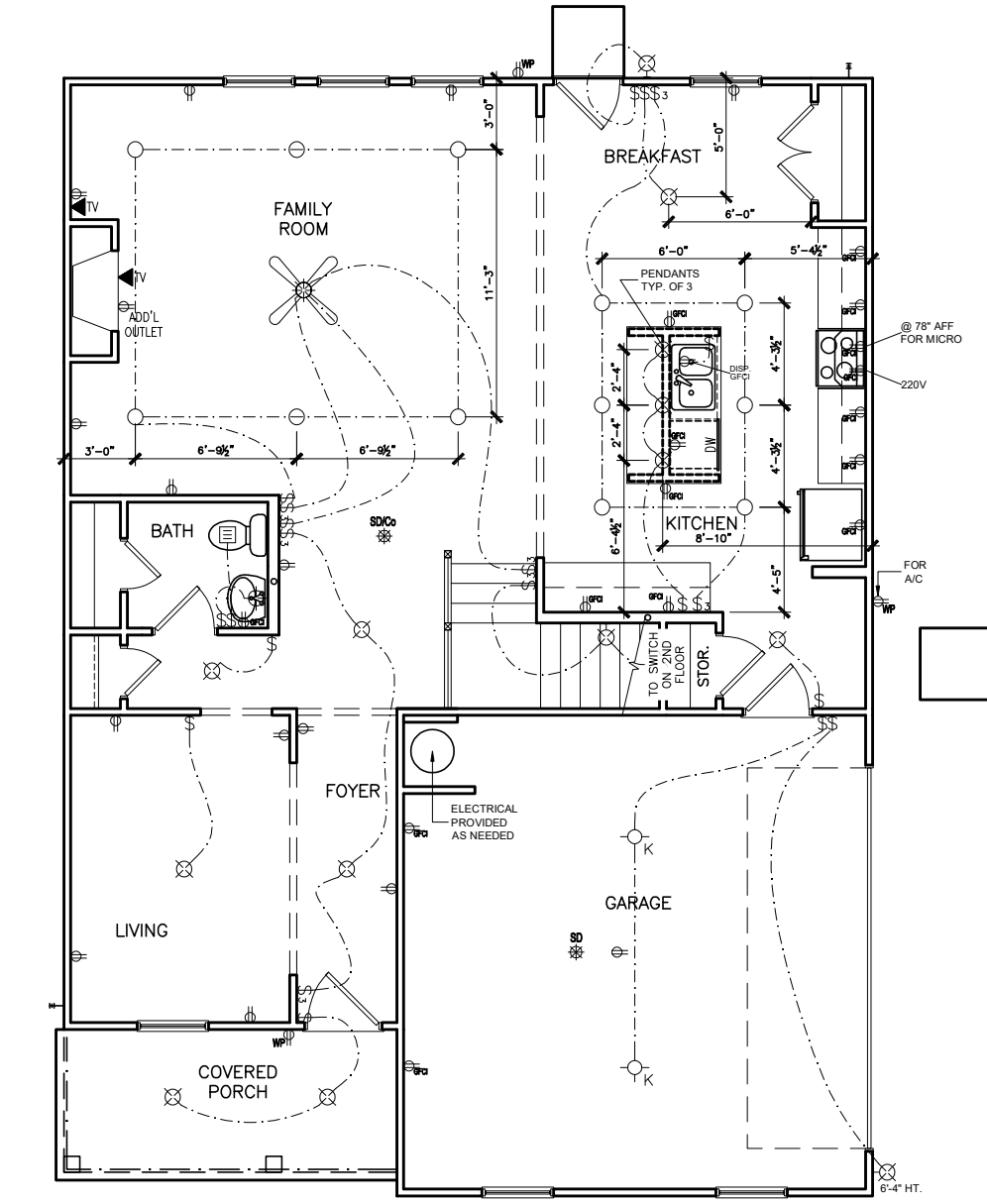
ROOF PLAN
ROOF PLAN
BUFFINGTON

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PAGE NO:	A6.1		

CANE MILL ESTATES LOT 28



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
⊕	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/CO	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

BY:	#	#	#	#	#
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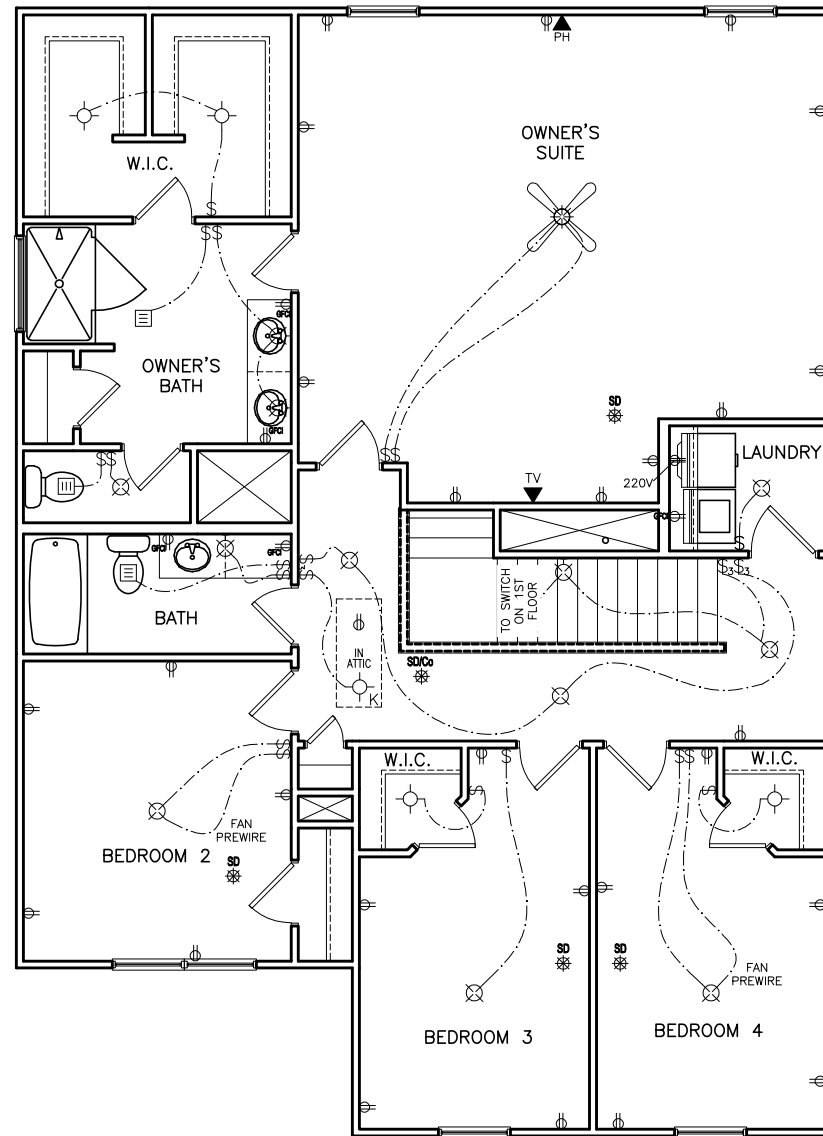
ELECTRICAL PLAN
FIRST FLOOR
BUFFINGTON

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PAGE NO:	A7.2		

CANE MILL ESTATES LOT 28



SECOND FLOOR ELECTRICAL PLAN

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

ELECTRICAL LEGEND

S	SWITCH	TV	TV
S ₃	3 WAY SWITCH	⊕	120V RECEPTACLE
S 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/Cd	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
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CEILING FAN	96" ABOVE FINISHED FLOOR

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

DATE	REVISION	BY
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ELECTRICAL PLAN
SECOND FLOOR
BUFFINGTON

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CANE MILL ESTATES LOT 28

Lot Definition		
Project: Cane Mill Estates Building: 000 Unit: 0028	Community: Cane Mill Estates Builder: Thomas Kenneth Barlow Status: Sold	
Plan: Buffington D Side Entry Orientation: Garage Right Bedrooms: 4 Address: 46 Trolley Lane Coats NC 27521	Sq. Ft: 2,548 Bathrooms: 2.5 RTeam: Raleigh West Slot: 5528 Permit: Notes:	
Contract: 89849 Buyer: Derrick Taylor Sales Agent: Sam Fulmer	Ratified: 04/18/2021 Original Start: 06/04/2021 Start: 06/11/2021 Scheduled Complete: 11/01/2021	
Option	Description	Quantity
36" Cabinet 2nd Upgr w/ Hardware	Includes hardware - knobs, pulls, or knob/pull combo. Note: Bath cabinets to match.	1
Additional Cable Outlet		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 for Rear/Back Door	Blinds - Additional blind to cover rear/back door.	1
Blinds for Base House	Includes blinds for all standard windows on front, sides, and rear that are operational and accessible. Does not include blinds for any optional windows, including windows for optional second floors.	1
Ceiling Fan w/ Light Family Room	Ceiling fan, including Light Kit. Does not include Prewire. This option is for use in Family Rooms that are pre-wired standard but have no fan.	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
FIPkg 5A-Floorte Pro, StdCpt (FIPkg1)	Flooring Package 5AA - Floorte Pro, Standard Carpet (from Package 1). SPC (solid polymer core) 0.5 mm vinyl top layer plank.	1
Granite Kitchen Countertops - Lvl 1 (I)	Kitchen Granite Countertops - Level 1 where Laminate is Std.	1
User Name: Kerry DeCarlo 1 of 3 06/03/2021 Database: SmithDouglasCommunities 02:20:52 PM		

Lot Definition		
Granite Kitchen Sink Level 1	Level 1 Undermount rectangular stainless steel sink upgrade for kitchen granite.	1
Kitchen Ceiling Fixture Lights ILO Std	Kitchen Lights - Low Profile Flush Mount LED Lights per Plan ILO Standard Lights.	1
Level 2 - Package Electric (from E1)	Frigidare SS 24" Dishwasher** Frigidare SS 1.6 Cu. Ft. Micro Frigidare SS 30" Elec Range	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 (hinges, bumps, knobs/levers, deadbolts), Pkg 1 (brn) light fixtures, powder oval mirror. Separate options also affected: shower door, bath hardware (towel bars, tp holder), shower grab bar, cabinet hardware	1
Open Rail 1st Floor - Iron		1
Optional Laundry Cabinet Upper - White	Laundry Wall: White Cabinets: 36" Uppers Per Plan Two 33" wide Wall Cabinets with Foot Doors. Installed over the Washing/Dryer	1
Owner Bath Marble 1 Double (w/ Lam/Sgl)	Installed over the Washer/Dryer Connection area Includes Credit for Wire Straps	1
Paint Interior Ceiling White	**Includes Vanity Double Bowl Option Do Not Select Both**	1
Paint Wall/Ceiling Color Upgrade	Upgrade Interior Paint Color on Walls and Ceilings for the whole house in lieu of base color	1
Pendant Lights per Plan	Pendant Lights above Island/Bar Top per plan electrical diagram. To match lighting package selected. NOTE: Choose this option only once.	1
PreWire for Ceiling Fan (Stone 22.A Ext C/Pkg 1)	Pre-wire a light location for a future ceiling fan.	2
User Name: Kerry DeCarlo 2 of 3 06/03/2021 Database: SmithDouglasCommunities 02:20:52 PM		

Lot Definition		
Activity	Description	Selection Description
Del/Install Appliance Pkg	Appliance Package Select - All	Appliance Package Selected
Deliver & Install Blinds	Blind Color	White
Install Cabinets Complet	Cab Hdw: Type(2)3JALL	Knob/Pull Combo
Install Cabinets Complet	Cabinet Finish - Upgrade 2Ais	2nd Upg Brellin Purestyle-White
Install Cabinets Complet	Secondary Bath Vanity Tops-All	4925K-7 Calcuta Marble
Install Carpet	Carpet - Standard ALL	Smith Grove II Trade Wind 06562
Install Floorte Pro (LP)	Floorte Pro 1stUpgr ALL	Preslo Plus - 400 Weathered Bamboo
Install Granite Tops	RDU Granite CounterKitchenLvl1	Dartle-Ashen White
Install Granite Tops	Rectangular SS sink LVL 1	Single Bowl Sink
Install Marble Tops	RDU Marble Vanity Top Lvl 1	Mate-#153 White w/ice Grey w/oval bowl
Paint Interior Complete	Interior Paint (Tom)-Ceiling	SW 7006 Extra White
Paint Interior Complete	Interior Paint (Walls) - Upgrd	SW 7029 Agreeable Gray
PM Install Vinyl Floor	VinylPkg Option Baths	Highlands Crossbeam 541
PM Install Vinyl Floor	VinylPkg Owner Bath	Highlands Crossbeam 541
PM Install Vinyl Floor	VinylPkg Std 2nd Baths/Laundry	Highlands Crossbeam 541
Stain Handrails	Hand Rail Stain - All	MW-Alluxium (LVP-400 Weathered Bambo)
User Name: Kerry DeCarlo 3 of 3 06/03/2021 Database: SmithDouglasCommunities 02:20:52 PM		

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DETAILS
LOT DEFINITION
BUFFINGTON

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PAGE NO: A9.1	

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 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 (NCR) 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 NCR
 - 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 NCR

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 exterior slabs-on-grade at a maximum of 15'-0" O.C. and in 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 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
 - $F_b = 2600$ psi
 - $F_v = 285$ psi
 - $F_c = 700$ 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 SPT#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 (F_y) 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.

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.

PROJECT
Burlington
CLIENT
Smith Douglas Homes
2520 Reliance Ave.
Apex, NC 27539

Coversheet
Raleigh

CURRENT DRAWING

DATE: 5/25/2021
SCALE: 1/8"=1'-0"
PROJECT #: 3832.202R
DRAWN BY: KKW
CHECKED BY: BCP

ORIGINAL DRAWING

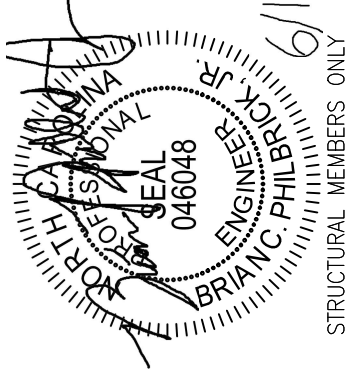
DATE 12/11/15
PROJECT# 3832.09

REFER TO COVER SHEET FOR A COMPLETE LIST OF REVISIONS

SHEET

CS2

Cane Mill
Lot 28



STRUCTURAL MEMBERS ONLY

HEADER/BEAM SCHEDULE		
HEADER TAG	BEAM TAG	SIZE
-	B1	(1) 14" FLOOR JOIST
-	B2	(2) 14" FLOOR JOIST
A	B3	(2) 2x6
B	B4	(2) 2x6
C	B5	(2) 2x6
D	B6	(2) 2x6
E	B7	(2) 9-1/4" LVL
F	B8	(2) 11-7/8" LVL
G	B9	(2) 14" LVL
H	B10	(2) 16" LVL
I	B11	(2) 18" LVL
J	B12	(2) 24" LVL
K	B13	(3) 11-7/8" LVL
L	B14	(3) 14" LVL
M	B15	(3) 16" LVL
N	B16	(3) 18" LVL
O	B18	(3) 18" LVL
P	B19	(3) 24" LVL

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

LINTEL SCHEDULE		
TAG	SIZE	OPENING SIZE
①	L3x3x1/4"	LESS THAN 6'-0"
②	L5x3x1/4"	6'-0" TO 10'-0"
③	L5x3-1/2"x5/16"	GREATER THAN 10'-0"
④	L8x3x5/16"	ALL ARCHED OPENINGS REQUIR EQUIV.

SECURE LINTEL TO HEADER w/ (2) 1/2" DIAMETER LAG SCREWS STAGGERED @ 16" O.C. (TYP FOR ③)

ALL HEADERS WITH BRICK ABOVE: (U)ND.

WALL STUD SCHEDULE	
1ST & 2ND FLOOR LOAD BEARING STUDS:	2x4 STUDS @ 16" O.C. OR 2x6 STUDS @ 24" O.C.
3RD FLOOR LOAD BEARING STUDS:	2x4 STUDS @ 16" O.C. OR 2x6 STUDS @ 24" O.C.
BASEMENT LOAD BEARING STUDS:	2x4 STUDS @ 17" O.C. OR 2x6 STUDS @ 19" O.C.
NON-LOAD BEARING STUDS (ALL FLOORS):	2x4 STUDS @ 16" O.C.
TWO STORY WALLS:	2x4 STUDS @ 17" O.C. OR 2x6 STUDS @ 19" O.C. BALLOON FRAMED w/ CROSS BRACING @ 6'-0" O.C. VERTICALLY

KING STUD REQUIREMENTS	
OPENING WIDTH	KINGS (EACH END)
LESS THAN 3'-0"	(1)
3'-0" TO 4'-0"	(2)
4'-0" TO 6'-0"	(3)
6'-0" TO 10'-0"	(4)

KING STUD REQUIREMENTS ABOVE DO NOT APPLY TO PORTAL FRAMED OPENINGS

THESE PLANS ARE DESIGNED IN ACCORDANCE WITH ARCHITECTURAL PLANS PROVIDED BY SMITH DOUGLAS HOMES COMPLETED REVISIONS ON 5/11/21. IT IS THE RESPONSIBILITY OF THE CLIENT TO NOTIFY SUMMIT ENGINEERING LABORATORY & TESTING P.C. IF ANY CHANGES ARE MADE TO THE ARCHITECTURAL PLANS AFTER THE DATE OF DESIGN. SUMMIT ENGINEERING LABORATORY & TESTING P.C. CANNOT GUARANTEE THE ADEQUACY OF THESE STRUCTURAL PLANS WHEN USED WITH ARCHITECTURAL PLANS DATED DIFFERENTLY THAN THE DATE LISTED ABOVE.

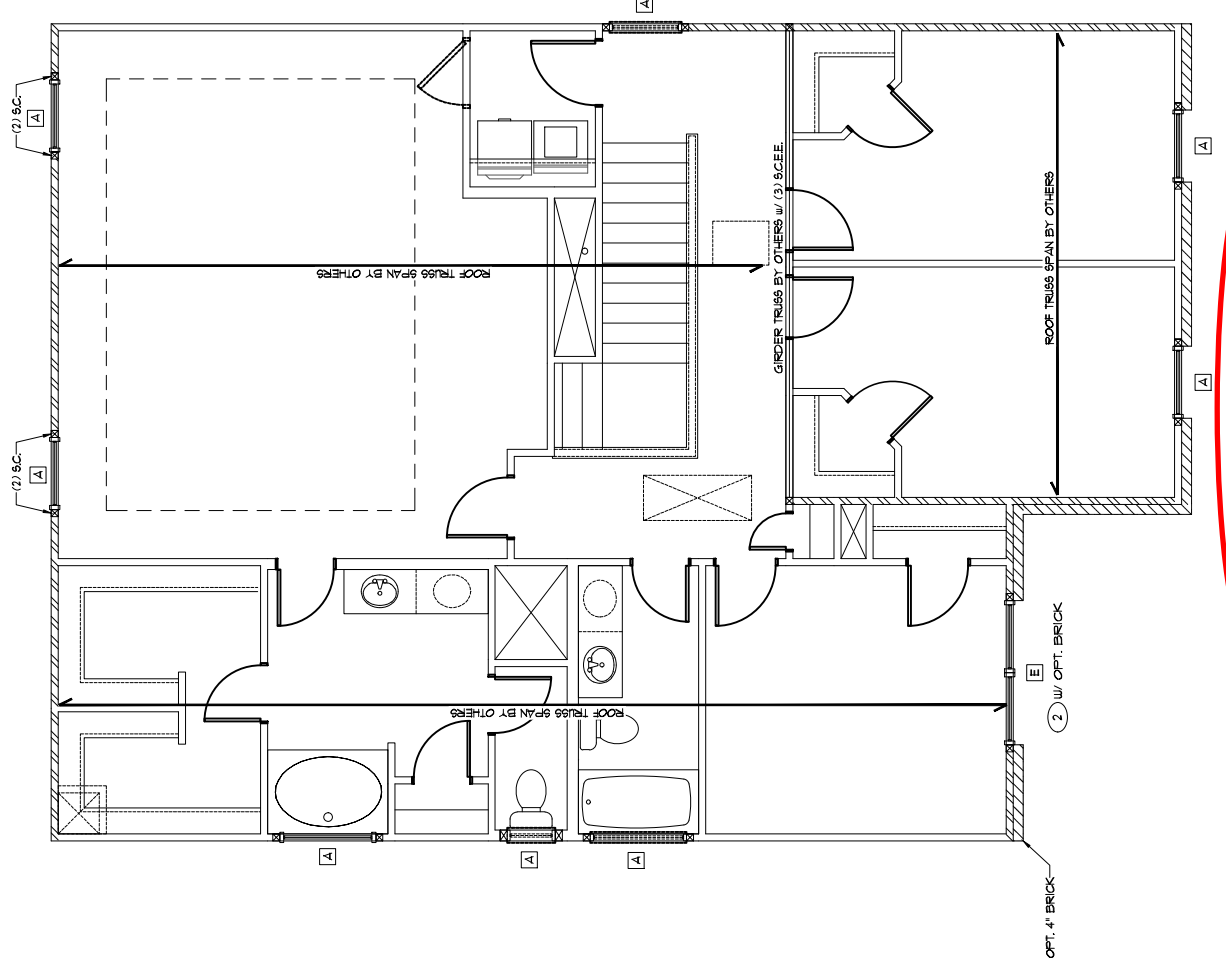
STRUCTURAL MEMBERS ONLY

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

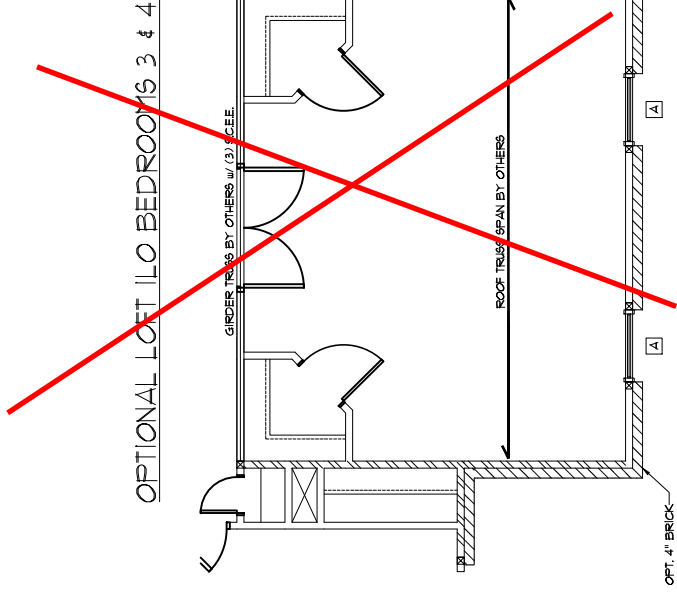
STRUCTURAL ANALYSIS BASED ON 2018 NCR.

SECOND FLOOR FRAMING PLAN
SCALE: 1/8"=1'-0"

5/12 COLUMN (6C.) CALLOUTS ON PLAN SHOWN. REFER TO BEAM/HEADER SCHEDULE KING STUDS TO BE INSTALLED PER APPLICABLE BUILDING CODE.



ELEVATIONS ADGJ, ASR



STRUCTURAL MEMBERS ONLY

Seal: **SMITH DOUGLAS HOMES**
SEAL
 046048
ENGINEER JR.
BRIAN C. PHILBRICK
 01/21

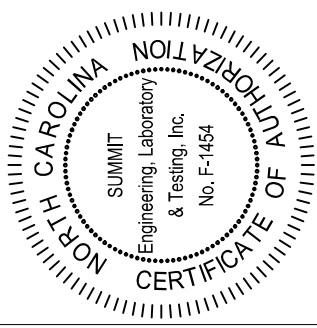
Cane Mill
Lot 28

SHEET

S4.0

SUMMIT
ENGINEERING LABORATORY TESTING

3070 HAMMOND BUSINESS
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RALEIGH, NC 27603
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PROJECT
Burlington

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

CURRENT DRAWING
DATE: 5/25/2021
SCALE: 1/8"=1'-0"
PROJECT #: 3832.202R
DRAWN BY: KWW
CHECKED BY: BCP

ORIGINAL DRAWING
DATE: 12/11/15
PROJECT #: 3632.09

REFER TO COVER SHEET FOR A COMPLETE LIST OF REVISIONS

TRUSS UPLIFT CONNECTOR SCHEDULE	
MODEL *	MAX. UPLIFT (LBS)
H1	585
H2A	515
H2FA	600
H6	950
H10A*	1340
H4A*	1465

MODEL *	MAX. UPLIFT (LBS)	FLY *
LGT*	2050	2
LGT3-SD925*	3685	3
LGT4-SD93*	4060	4
HST-2*	10980	2
HST-3*	10930	3
HST-4*	9250	4

1. ALL PRODUCTS LISTED ARE SIMPSON STRONG-TIE EQUIV. PRODUCTS MAY BE USED PER MANUF. SPECIFICATIONS. 2. VALUES LISTED ARE FOR A MINIMUM 2-1/2" MEMBER THICKNESS. ITEMS PROVIDED THE UPLIFT CAPACITY SHOWN ABOVE DENOTED WITH "*" MAY NOT BE DOUBLED TO INCREASE LOAD CAPACITY. 3. UPLIFT VALUES ARE BASED ON 1/2" GASKET CONTACT FOR TRUSS MEMBERS PLEASE CONTACT EOR OR TRUSS MANUF. IF TRUSS TO TRUSS CONNECTIONS ARE TO BE SPECIFIED AND SUPPLIED BY THE TRUSS MANUF. THE EOR IS NOT RESPONSIBLE FOR THESE CONNECTIONS.

NOTE: BT FLY OF ALL SHOWN GREYER TRUSSES TO ALIGN WITH INSIDE FACE OF WALL (TTP, UNO)

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

THESE PLANS ARE DESIGNED IN ACCORDANCE WITH ARCHITECTURAL PLANS PROVIDED BY SMITH DOUGLAS HOMES COMPLETED/REVISED ON 05/25/2021. THE RESPONSIBILITY FOR THE CLIENT TO PROVIDE ALL NECESSARY INFORMATION TO THE ARCHITECTURAL PLANS PRIOR TO CONSTRUCTION. SMITH ENGINEERING, LABORATORY & TESTING, P.C. CANNOT GUARANTEE THE ADEQUACY OF THESE STRUCTURAL PLANS WHEN USED WITH ARCHITECTURAL PLANS DATED DIFFERENTLY THAN THE DATE LISTED ABOVE.

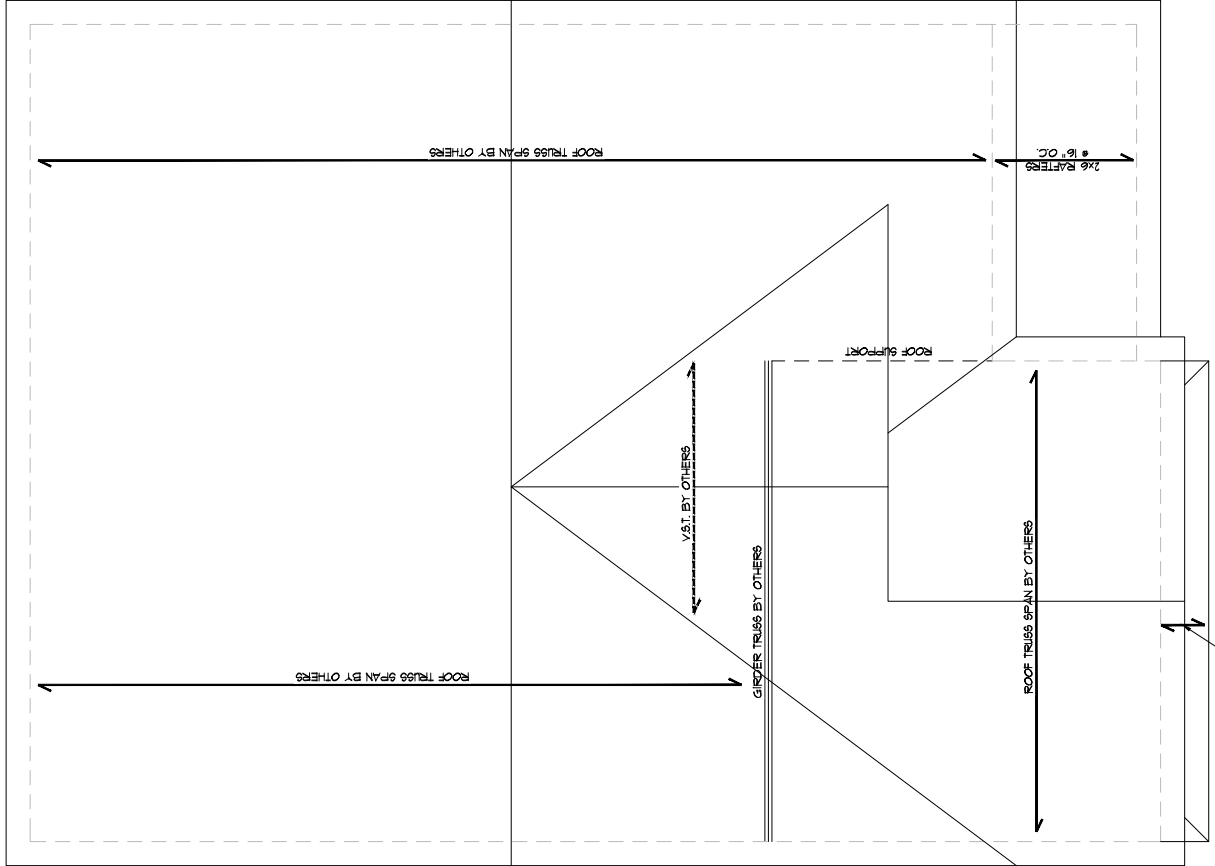
REFER TO TRUSS LAYOUT PER MANUFACTURER FOR UPLIFT CONNECTIONS FROM TRUSS TO TOP PLATE (TTP, UNO)

NOTE: TRUSS UPLIFT LOADS SHALL BE DETERMINED PER TRUSS MANUF. UPLIFT LOADS SHALL BE DETERMINED PER TRUSS MANUF. SHEATHING AND FASTENERS HAVE BEEN DESIGNED TO RESIST THE WIND UPLIFT LOAD PATH IN ACCORDANCE WITH METHOD 3 OF SECTION 1609.3.5 OF THE 2009 NCR. REFER TO BRACED WALL PLANS FOR SHEATHING AND FASTENER REQUIREMENTS.

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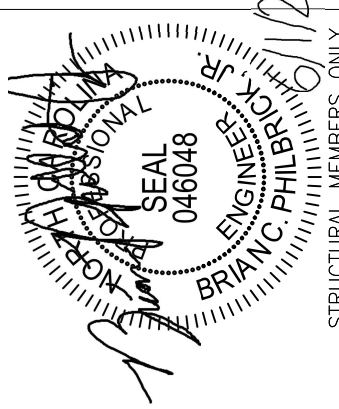
STRUCTURAL ANALYSIS BASED ON 2018 NCR.

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



ELEVATIONS ADGJ & ASR

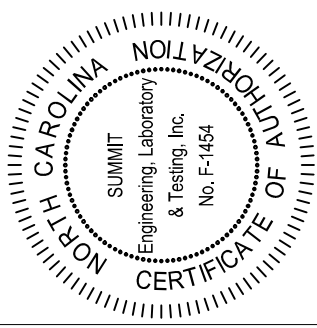
Cane Mill
 Lot 28



STRUCTURAL MEMBERS ONLY

SHEET

S5.0



PROJECT
 Burlington
 CLIENT
 Smith Douglas Homes - Raleigh
 2520 Reliance Ave.
 Apex, NC 27539

CURRENT DRAWING

DATE: 5/25/2021

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

PROJECT #: 3832.202R

DRAWN BY: KWW

CHECKED BY: BCP

ORIGINAL DRAWING

DATE: 12/11/15

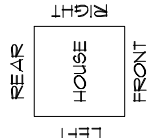
PROJECT#: 3832.09

REFER TO COVER SHEET FOR A COMPLETE LIST OF REVISIONS

REQUIRED BRACED WALL PANEL CONNECTIONS		
METHOD	MATERIAL	REQUIRED CONNECTION
		• PANEL EDGES
		• INTERMEDIATE SUPPORTS
CS-WBP	WOOD PANEL	6d COMMON NAILS • 2" O.C.
GB	GYP/SM BOARD	5d COOLER NAILS** • 1" O.C.
WBP	WOOD PANEL	6d COMMON NAILS • 2" O.C.
FF	WOOD PANEL	PER FIGURE R602.02.1 PER FIGURE R602.02.1

BRACED WALL NOTES:

- WALLS SHALL BE DESIGNED IN ACCORDANCE WITH SECTION R602.01. WALLS ARE DESIGNED FOR SEISMIC ZONES A-C AND ULTIMATE WIND SPEEDS UP TO 130 MPH.
- REFER TO ARCHITECTURAL PLAN FOR DOOR/WINDOW OPENING SIZES. BRACING MATERIALS, METHODS AND FASTENERS SHALL BE IN ACCORDANCE WITH SECTION R602.01. ALL BRACED WALL PANELS SHALL BE FULL WALL HEIGHT AND SHALL NOT EXCEED 10 FEET FOR ISOLATED PANEL METHOD AND 12 FEET FOR CONTINUOUS SHEATHING METHOD WITHOUT ADDITIONAL ENGINEERING CALCULATIONS.
- BRACED WALL LENGTH SHALL BE PER TABLE R602.01.
- THE INTERIOR SIDE OF EXTERIOR WALLS AND BOTH SIDERS OF INTERIOR WALLS SHALL BE SHEATHED CONTINUOUSLY WITH MINIMUM 1/2" GYPSUM BOARD (UNO).
- FOR CONTINUOUS SHEATHING METHOD, EXTERIOR WALLS SHALL BE SHEATHED WITH MINIMUM 5/8" GYPSUM BOARD (UNO) ON BOTH SIDERS OF WALL OPENINGS, AND ON GABLE END WALLS.
- FLOORS SHALL NOT BE CANTILEVERED MORE THAN 2'4" BEYOND THE FOUNDATION OR BEARING WALL BELOW WITHOUT ADDITIONAL ENGINEERING CALCULATIONS.
- A BRACED WALL PANEL SHALL BE LOCATED WITHIN 12 FEET OF EACH END OF A BRACED WALL LINE.
- THE MAXIMUM EDGE DISTANCE BETWEEN BRACED WALL PANELS SHALL NOT EXCEED 71 FEET.
- THE MAXIMUM EDGE DISTANCE BETWEEN BRACED WALL PANELS SHALL NOT EXCEED 71 FEET.
- SUPPORTING A BRACED WALL PANEL SHALL BE DESIGNED IN ACCORDANCE WITH FIGURE R602.04.3 OF THE 2018 NCR. BRACED WALL PANEL CONNECTIONS TO FLOOR/CEILING SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION R602.04.4.
- CRIPPLE WALLS AND WALK OUT BASEMENT WALLS SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION R602.04.5.
- DESIGNED IN ACCORDANCE WITH SECTION R602.04.6.
- PORTAL WALLS SHALL BE DESIGNED IN ACCORDANCE WITH FIGURE R602.04.7.
- ON SCHEMATIC, SHADDED WALLS INDICATE BRACED WALL PANELS.
- ABBREVIATIONS:
 - GB - GYPSUM BOARD
 - WBP - WOOD STRUCTURAL PANEL
 - CS-WBP - CONTINUOUS SHEATHING METHOD
 - FF - PORTAL FRAME



THESE PLANS ARE DESIGNED IN ACCORDANCE WITH ARCHITECTURAL PLANS PROVIDED BY BATHING NOTES COMPLETED BY SUMMIT ENGINEERING, LABORATORY & TESTING, P.C. IF ANY CHANGES ARE MADE TO THE ARCHITECTURAL PLANS PRIOR TO CONSTRUCTION, THE CLIENT SHALL BE RESPONSIBLE FOR OBTAINING THE NECESSARY GUARANTEE OF THE ADEQUACY OF THESE STRUCTURAL PLANS WHEN USED WITH ARCHITECTURAL PLANS DATED DIFFERENTLY THAN THE DATE LISTED ABOVE.

INSTALL HOLD-DOWNS PER SECTION R602.04 AND FIGURE R602.04.1 OF THE 2018 NCR.

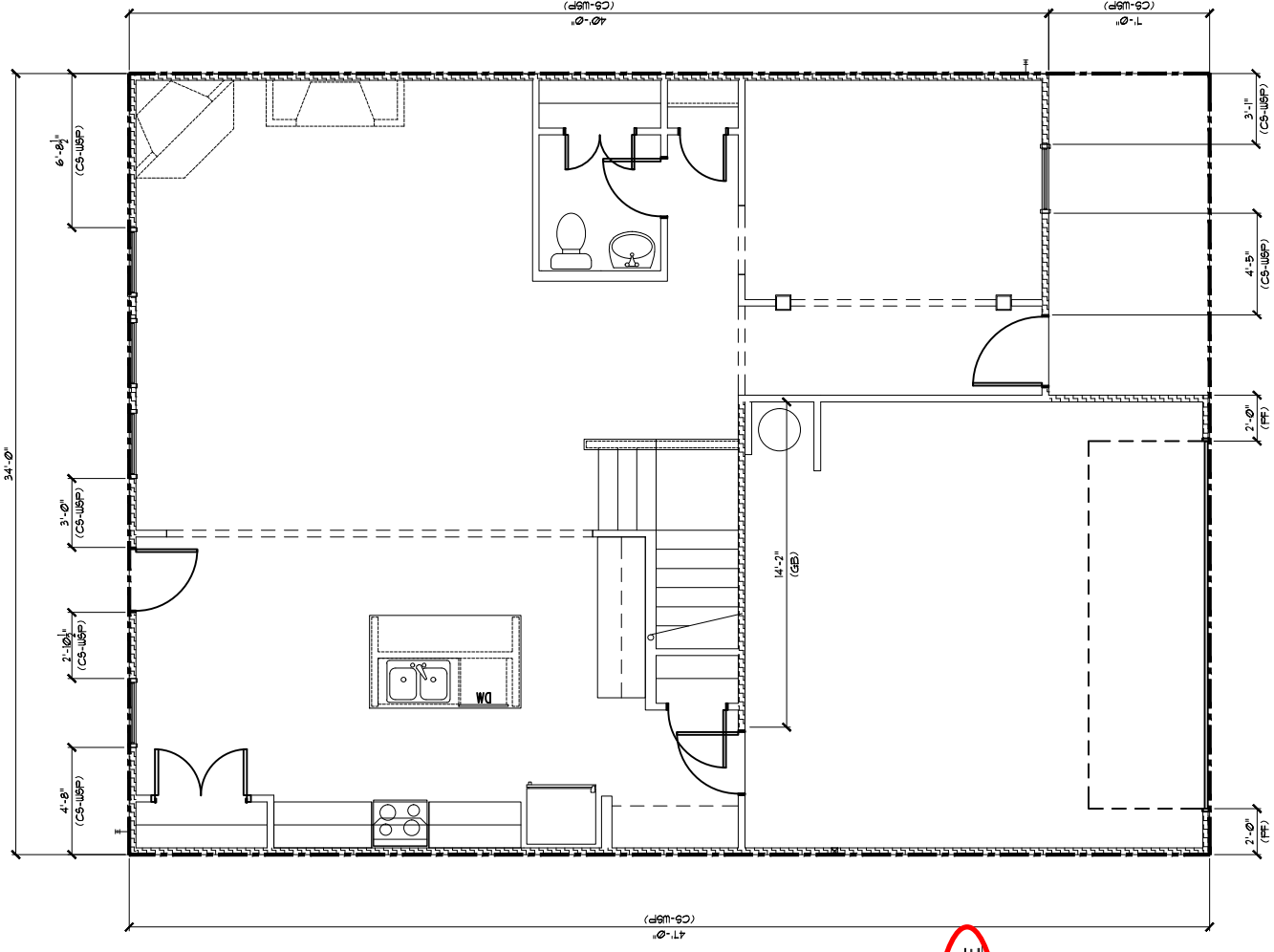
FIRST FLOOR BRACING (FT)		
CONTINUOUS SHEATHING METHOD		
FRONT SIDE	REQUIRED	PROVIDED
LEFT SIDE	14.6	20.6
REAR SIDE	14.6	47.0
RIGHT SIDE	11.1	11.2
RIGHT SIDE	11.1	47.0

FIRST FLOOR BRACING - SIDE LOAD GARAGE (FT)		
CONTINUOUS SHEATHING METHOD		
FRONT SIDE	REQUIRED	PROVIDED
LEFT SIDE	14.6	21.5
REAR SIDE	14.6	47.0
RIGHT SIDE	11.1	11.2
RIGHT SIDE	11.1	33.0

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 2018 NCR.

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



OPT. SIDE LOAD GARAGE

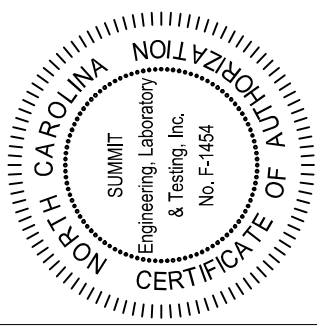
ALL ELEVATIONS
BRACING OPTION I



Cane Mill Lot 28

STRUCTURAL MEMBERS ONLY

SUMMIT
ENGINEERING LABORATORY TESTING
3070 HAMMOND BUSINESS PLACE, SUITE 171
RALEIGH, NC 27603
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WWW.SUMMIT-COMPANIES.COM



PROJECT
Burrington
CLIENT
Smith Douglas Homes - Raleigh
2520 Reliance Ave.
Apex, NC 27539

CURRENT DRAWING
DATE: 5/25/2021
SCALE: 1/8"=1'-0"
PROJECT #: 3832.202R
DRAWN BY: KWW
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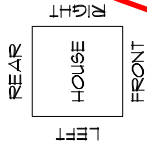
REFER TO COVER SHEET FOR A COMPLETE LIST OF REVISIONS

SHEET
S7.0

REQUIRED BRACED WALL PANEL CONNECTIONS		
METHOD	MATERIAL	REQUIRED CONNECTION
CS-UBSP	WOOD PANEL MIN. THICKNESS 3/8"	INTERMEDIATE SUPPORTS 6d COMMON NAILS @ 2' O.C. 6d COMMON NAILS @ 12" O.C.
GB	GYP/SM BOARD	5d COOLER NAILS** @ 1" O.C. 6d COMMON NAILS @ 12" O.C.
USP	WOOD PANEL MIN. THICKNESS 3/8"	6d COMMON NAILS @ 6" O.C.
FF	STRUCTURAL PANEL MIN. THICKNESS 1/16"	PER FIGURE R6-02.101 PER FIGURE R6-02.101 **OR EQUIVALENT PER TABLE R7-02.3.3

BRACED WALL NOTES:

- WALLS SHALL BE DESIGNED IN ACCORDANCE WITH SECTION R6-02.19 PER FIGURE R6-02.101 FOR ALL CODES.
- WALLS ARE DESIGNED FOR SEISMIC ZONES A-C AND ULTIMATE WIND SPEEDS UP TO 130 MPH.
- REFER TO ARCHITECTURAL PLAN FOR DOOR/WINDOW OPENING SIZES. BRACING MATERIALS, METHODS AND FASTENERS SHALL BE IN ACCORDANCE WITH SECTION R6-02.19.
- ALL BRACED WALL PANELS SHALL BE FULL WALL HEIGHT AND SHALL NOT EXCEED 10 FEET FOR ISOLATED PANEL METHOD AND 12 FEET FOR CONTINUOUS SHEATHING METHOD WITHOUT ADDITIONAL ENGINEERING CALCULATIONS.
- PANEL LENGTH SHALL BE PER TABLE R6-02.101.
- THE INTERIOR SIDE OF EXTERIOR WALLS AND BOTH SIDERS OF INTERIOR WALLS SHALL BE SHEATHED CONTINUOUSLY WITH MINIMUM 1/2" GYPSUM BOARD (UNO).
- SOE CONTINUOUS SHEATHING METHOD: EXTERIOR WALLS SHALL BE SHEATHED WITH 1/2" GYPSUM BOARD (UNO) ON BOTH SIDERS OF WALLS AND ON GABLE END WALLS. FOUNDATION OR BEARING WALL BELOW WITHOUT ADDITIONAL ENGINEERING CALCULATIONS.
- A BRACED WALL PANEL SHALL BE LOCATED WITHIN 12 FEET OF EACH END OF A BRACED WALL LINE.
- THE MAXIMUM EDGE DISTANCE BETWEEN BRACED WALL PANELS SHALL NOT EXCEED 21 FEET.
- THE MAXIMUM EDGE DISTANCE BETWEEN BRACED WALL PANELS SHALL NOT EXCEED 21 FEET.
- SUPPORTING A BRACED WALL PANEL SHALL BE DESIGNED IN ACCORDANCE WITH FIGURE R6-02.04.3 OF THE 2018 NCRC.
- CONNECTIONS TO FLOOR/CEILING SHALL BE DESIGNED IN ACCORDANCE WITH SECTION R6-02.04.4.
- CRIPPLE WALLS AND WALK OUT BASEMENT WALLS SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION R6-02.04.5.
- DESIGNED IN ACCORDANCE WITH SECTION R6-02.04.6.
- PORTAL WALLS SHALL BE DESIGNED IN ACCORDANCE WITH FIGURE R6-02.04.7.
- ON SCHEMATIC, SHADDED WALLS INDICATE BRACED WALL PANELS.
- ABBREVIATIONS:
 - GB - GYPSUM BOARD
 - USP - WOOD STRUCTURAL PANEL
 - FF - FLOOR FINISH
 - PF - PORTAL FRAME
 - FR - FRAMING
 - ENG - ENGINEER



THESE PLANS ARE DESIGNED IN ACCORDANCE WITH ARCHITECTURAL PLANS PROVIDED BY BATH/DOUGLAS HOMES. NOTICES COMPLETED REQUIRED ON 3/11/21. IT 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. THE CLIENT'S SIGNATURE AND DATE SHALL BE OBTAINED FROM THE CLIENT TO GUARANTEE THE ADEQUACY OF THESE STRUCTURAL PLANS WHEN USED WITH ARCHITECTURAL PLANS DATED DIFFERENTLY THAN THE DATE LISTED ABOVE.

FIRST FLOOR BRACING (FT)		
CONTINUOUS SHEATHING METHOD		
FRONT SIDE	REQUIRED	PROVIDED
LEFT SIDE	14.6	20%
REAR SIDE	14.6	41.0
RIGHT SIDE	11.1	11.2
RIGHT SIDE	11.1	41.0

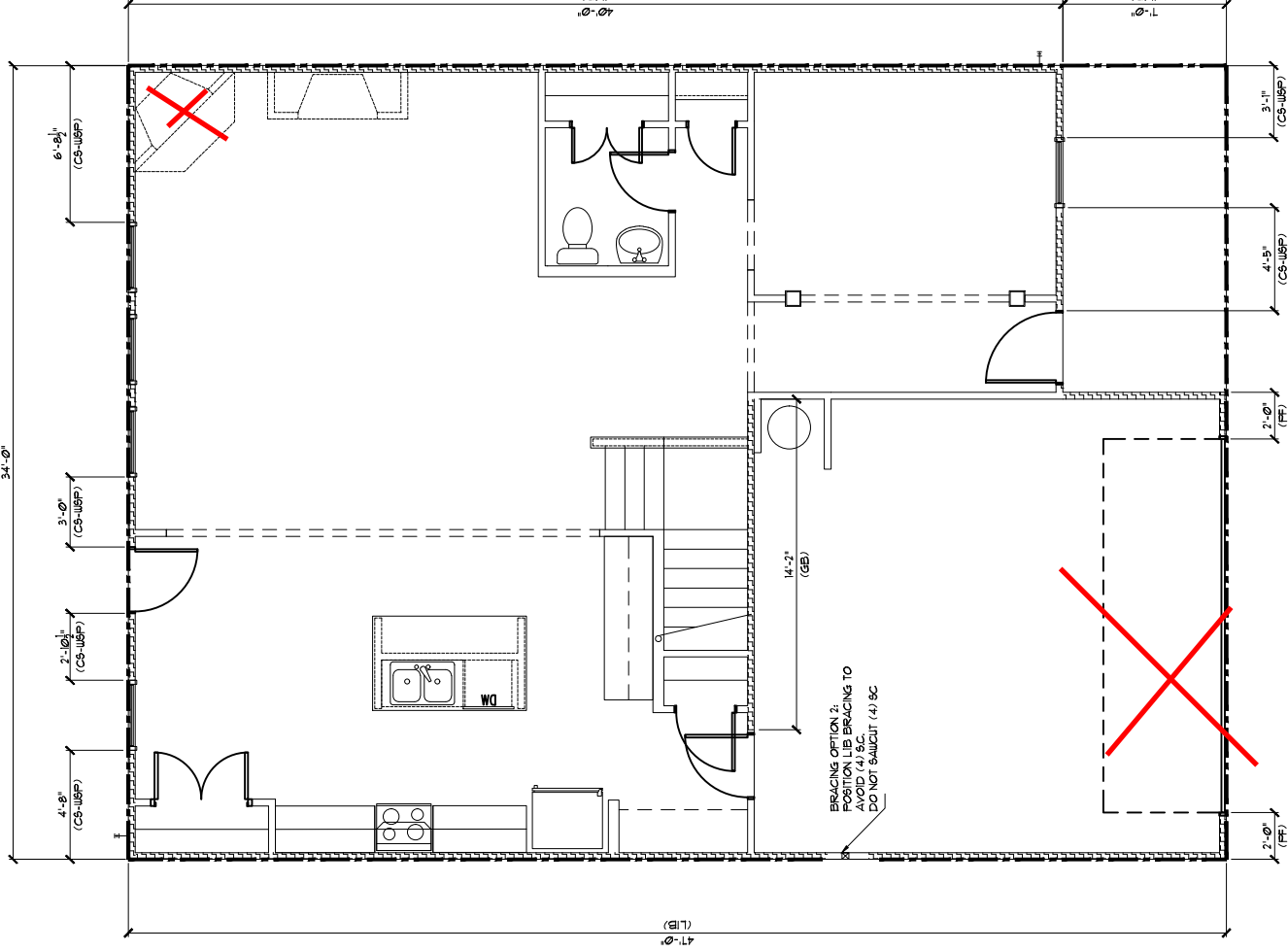
FIRST FLOOR BRACING - SIDE LOAD GARAGE (FT)		
CONTINUOUS SHEATHING METHOD		
FRONT SIDE	REQUIRED	PROVIDED
LEFT SIDE	14.6	21.5
REAR SIDE	14.6	41.0
RIGHT SIDE	11.1	11.2
RIGHT SIDE	11.1	33.0

STRUCTURAL MEMBERS ONLY
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STRUCTURAL ANALYSIS BASED ON 2018 NCRC.

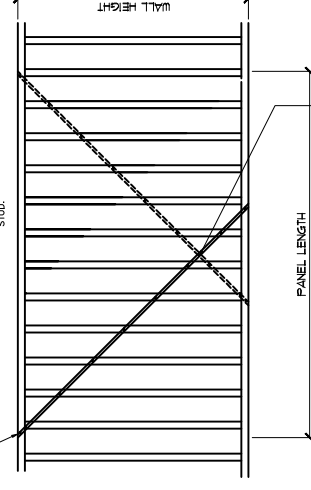
FIRST FLOOR BRACING PLAN
SCALE: 1/8" = 1'-0"

SEE SHEET 6T.0 FOR NOTES AND MORE INFORMATION



CONT. SET THIS STRAP OR EQ MAILED PER MANUFACTURER RECOMMENDATIONS MIN (1) 8d COMMON NAIL PER STUD, TOP AND BOTTOM PLATE

INSTALL IN 2" PILES OR OPPOSING WALLS. BRACES SHALL BE BRACED WALL PLATE ON INTERIOR SIDE. BRACES SHALL BE PRE-DRILLED BRACED LENGTH STUD.



PLEASE BE AWARE THAT THE BRACES CROSS IN THE SPACE BETWEEN STUDS OR OVER A DOUBLE STUD. OVER A SINGLE STUD.

LIB BRACING
1
6T.1

Cane Mill
Lot 28

STRUCTURAL MEMBERS ONLY

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SUMMIT
Engineering, Laboratory & Testing, Inc.
No. F-1454
NORTH CAROLINA
CERTIFICATE OF AUTHORIZATION

PROJECT
Burrington
CLIENT
Smith Douglas Homes - Raleigh
2520 Reliance Ave.
Apex, NC 27539

CURRENT DRAWING
DATE: 5/25/2021
SCALE: 1/8"=1'-0"
PROJECT #: 3832.202R
DRAWN BY: KWM
CHECKED BY: BCP

ORIGINAL DRAWING
DATE: 12/11/15
PROJECT#: 3832.09

REFER TO COVER SHEET FOR A COMPLETE LIST OF REVISIONS

SHEET

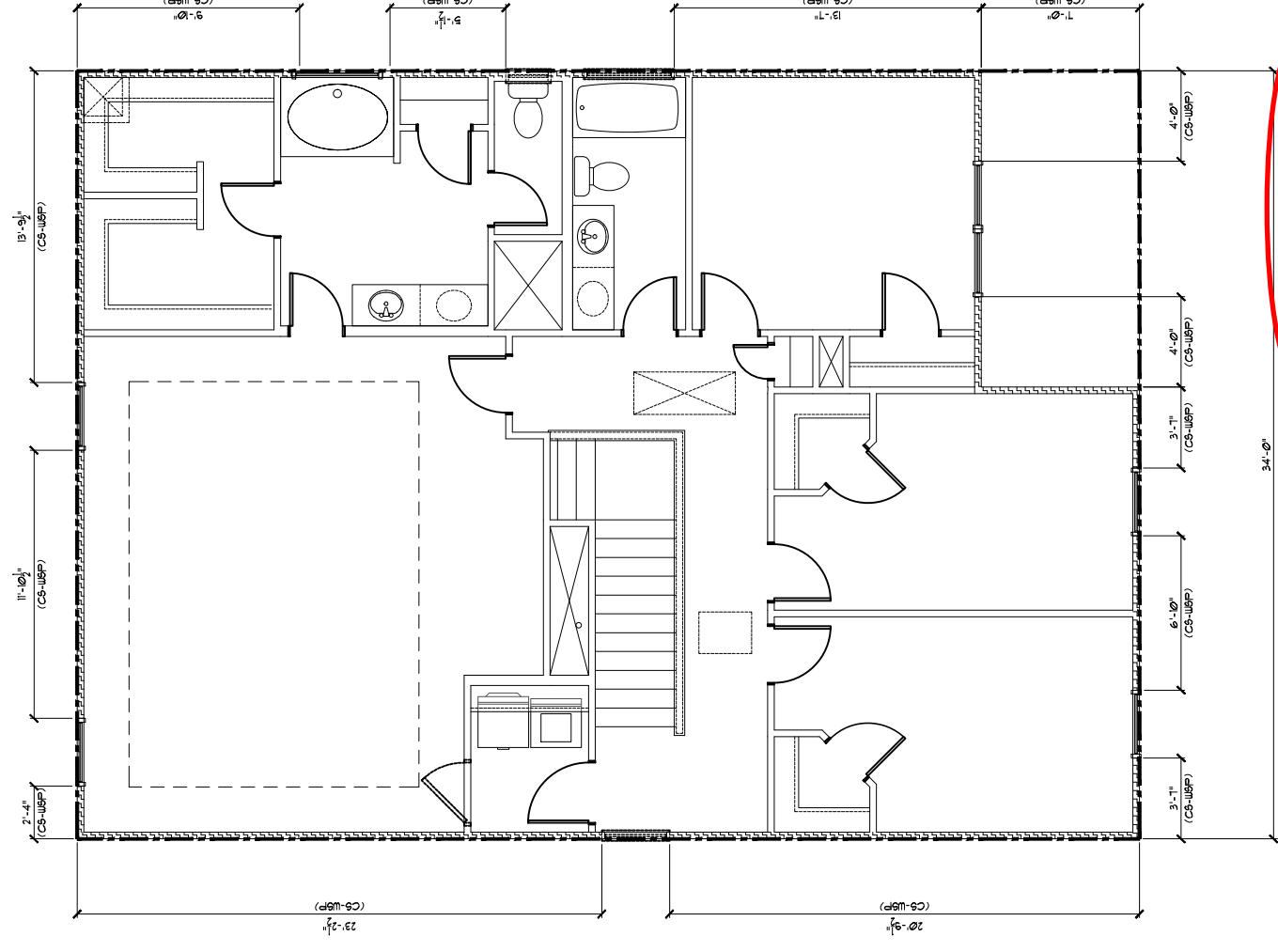
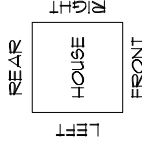
S7.1

BRIAN C. PHILBRICK, JR.
ENGINEER
SEAL
046048
NORTH CAROLINA PROFESSIONAL ENGINEER

REQUIRED BRACED WALL PANEL CONNECTIONS			
METHOD	MATERIAL	MIN. THICKNESS	REQUIRED CONNECTION
CS-UBSP	WOOD PANEL	3/8"	• PANEL EDGES • INTERMEDIATE SUPPORTS • 6d COMMON NAILS • 2" O.C.
GB	GYP/SM BOARD	1/2"	• 5d COOLER NAILS** • 1" O.C.
USP	WOOD PANEL	3/8"	• 6d COMMON NAILS • 6" O.C.
FF	STRUCTURAL PANEL	1/16"	PER FIGURE R6-02.101 PER FIGURE R6-02.101

BRACED WALL NOTES:

- WALLS SHALL BE DESIGNED IN ACCORDANCE WITH SECTION R6-02.10
- WALLS ARE DESIGNED FOR SEISMIC ZONES A-C AND ULTIMATE WIND SPEEDS UP TO 150 MPH.
- REFER TO ARCHITECTURAL PLAN FOR DOOR/WINDOW OPENING SIZES. BRACING MATERIALS, METHODS AND FASTENERS SHALL BE IN ACCORDANCE WITH SECTION R6-02.101.
- ALL BRACED WALL PANELS SHALL BE FULL WALL HEIGHT AND SHALL NOT EXCEED 10 FEET FOR ISOLATED PANEL METHOD AND 12 FEET FOR CONTINUOUS SHEATHING METHOD WITHOUT ADDITIONAL ENGINEERING CALCULATIONS.
- BRACED WALL PANEL LENGTH SHALL BE PER TABLE R6-02.101.
- THE INTERIOR SIDE OF EXTERIOR WALLS AND BOTH SIDES OF INTERIOR WALLS SHALL BE SHEATHED CONTINUOUSLY WITH MINIMUM 1/2" GYPSUM BOARD (UNO).
- FOR CONTINUOUS SHEATHING METHOD, EXTERIOR WALLS SHALL BE SHEATHED WITH 1/2" GYPSUM BOARD (UNO) ON BOTH SIDES OF THE WALL. SHEATHING SHALL BE BETWEEN BRACED WALL PANELS, ABOVE AND BELOW WALL OPENINGS, AND ON GABLE END WALLS.
- FLOORS SHALL NOT BE CANTILEVERED MORE THAN 2'4" BEYOND THE FOUNDATION OR BEARING WALL BELOW WITHOUT ADDITIONAL ENGINEERING CALCULATIONS.
- A BRACED WALL PANEL SHALL BE LOCATED WITHIN 12 FEET OF EACH END OF A BRACED WALL LINE.
- THE MAXIMUM EDGE DISTANCE BETWEEN BRACED WALL PANELS SHALL NOT EXCEED 71 FEET.
- FOR STEEP SLOPE STEEP WALLS WITH A LENGTH OF 45' OR LESS SUPPORTING A BRACED WALL PANEL SHALL BE DESIGNED IN ACCORDANCE WITH FIGURE R6-02.043 OF THE 2018 NCR.
- CONSTRUCTED IN ACCORDANCE WITH SECTION R6-02.101.4
- CONSTRUCTED IN ACCORDANCE WITH SECTION R6-02.101.5
- CRIPPLE WALLS AND WALK OUT BASEMENT WALLS SHALL BE DESIGNED IN ACCORDANCE WITH SECTION R6-02.046
- PORTAL WALLS SHALL BE DESIGNED IN ACCORDANCE WITH FIGURE R6-02.101.6
- ON SCHEMATIC, SHADDED WALLS INDICATE BRACED WALL PANELS.
- ABBREVIATIONS:
 - GB - GYPSUM BOARD
 - USP - WOOD STRUCTURAL PANEL
 - FF - PORTAL FRAME
 - ENG - ENGINEER'S SOLUTION
 - FR - ENG. PORTAL FRAME



ALL ELEVATIONS

BRACING OPTION I

SECOND FLOOR BRACING (FT)		
CONTINUOUS SHEATHING METHOD		
FRONT SIDE	REQUIRED	PROVIDED
FRONT SIDE	6.5	72.0
LEFT SIDE	5.1	39.5
REAR SIDE	6.5	29.0
RIGHT SIDE	5.1	44.0

INSTALL HOLD-DOWNS PER SECTION R6-02.104 AND FIGURE R6-02.103(4) OF THE 2018 NCR.

STRUCTURAL MEMBERS ONLY
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STRUCTURAL ANALYSIS BASED ON 2018 NCR.

SECOND FLOOR BRACING PLAN
 SCALE: 1/8" = 1'-0"

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 & Testing, Inc.
 No. F-1454
 NORTH CAROLINA
 CERTIFICATE OF AUTHORIZATION

PROJECT
 Burlington
 CLIENT
 Smith Douglas Homes - Raleigh
 2520 Reliance Ave.
 Apex, NC 27539

CURRENT DRAWING
 DATE: 5/25/2021
 SCALE: 1/8" = 1'-0"
 PROJECT #: 3832.202R
 DRAWN BY: KW
 CHECKED BY: BCP

ORIGINAL DRAWING
 DATE: 12/11/15
 PROJECT #: 3832.09

REFER TO COVER SHEET FOR A COMPLETE LIST OF REVISIONS

SHEET

S8.0

SEAL
 046048
 ENGINEER JR.
 BRIAN C. PHILBRICK, JR.
 NORTH CAROLINA PROFESSIONAL ENGINEER

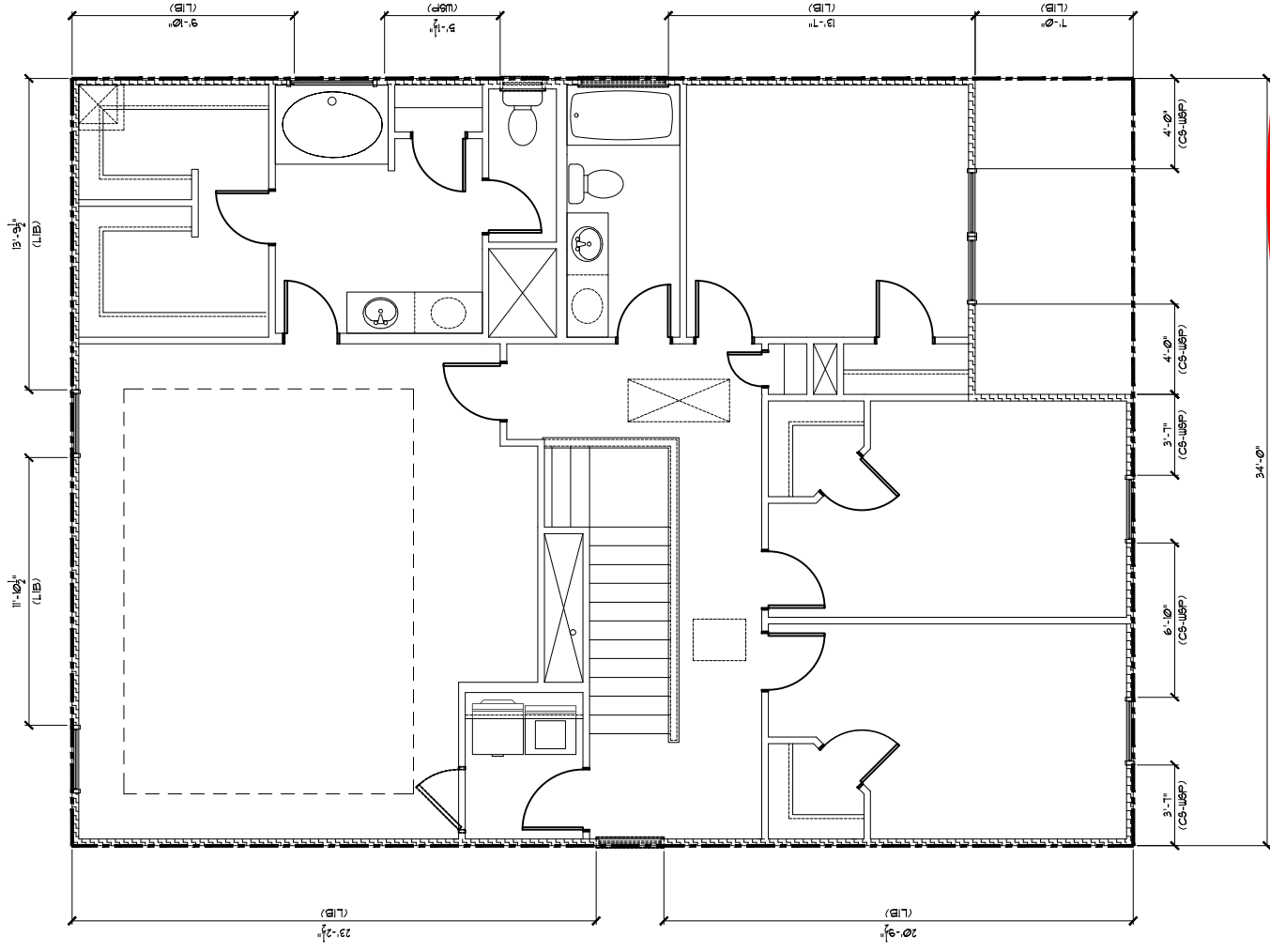
Cane Mill
 Lot 28

STRUCTURAL MEMBERS ONLY

REQUIRED BRACED WALL PANEL CONNECTIONS			
METHOD	MATERIAL	MIN. THICKNESS	REQUIRED CONNECTION
CS-WSP	WOOD STRUCTURAL PANEL	3/8"	6d COMMON NAILS @ 2' O.C.
GB	GYP/SM BOARD	1/2"	5d COOLER NAILS** @ 1' O.C.
WSP	WOOD STRUCTURAL PANEL	3/8"	6d COMMON NAILS @ 2' O.C.
FF	STRUCTURAL PANEL	1/16"	PER FIGURE R602.02.01 PER FIGURE R602.02.01

BRACED WALL NOTES:

- WALLS SHALL BE DESIGNED IN ACCORDANCE WITH SECTION R602.01.9. ALL BRACED WALLS SHALL BE DESIGNED FOR SEISMIC ZONES A-C AND ULTIMATE WIND SPEEDS UP TO 130 MPH.
- REFER TO ARCHITECTURAL PLAN FOR DOOR/WINDOW OPENING SIZES. BRACING MATERIALS, METHODS AND FASTENERS SHALL BE IN ACCORDANCE WITH SECTION R602.01.9. ALL BRACED WALL PANELS SHALL BE FULL WALL HEIGHT AND SHALL NOT EXCEED 10 FEET FOR ISOLATED PANEL METHOD AND 12 FEET FOR CONTINUOUS SHEATHING METHOD WITHOUT ADDITIONAL ENGINEERING CALCULATIONS.
- BRACED WALL PANEL LENGTH SHALL BE PER TABLE R602.01.10.
- THE INTERIOR SIDE OF EXTERIOR WALLS AND BOTH SIDERS OF INTERIOR WALLS SHALL BE SHEATHED CONTINUOUSLY WITH MINIMUM 1/2" GYPSUM BOARD (UNO).
- FOR CONTINUOUS SHEATHING METHOD, EXTERIOR WALLS SHALL BE SHEATHED WITH 5/8" GYPSUM BOARD (UNO) ON BOTH SIDERS OF WALL OPENINGS, AND ON GABLE END WALLS. FLOORS SHALL NOT BE CANTILEVERED MORE THAN 2'4" BEYOND THE FOUNDATION OR BEARING WALL BELOW WITHOUT ADDITIONAL ENGINEERING CALCULATIONS.
- A BRACED WALL PANEL SHALL BE LOCATED WITHIN 12 FEET OF EACH END OF A BRACED WALL LINE.
- THE MAXIMUM EDGE DISTANCE BETWEEN BRACED WALL PANELS SHALL NOT EXCEED 71 FEET.
- BRACED WALL PANELS SHALL BE FULL WALL HEIGHT OR 48" OR LESS.
- SUPPORTING A BRACED WALL PANEL SHALL BE DESIGNED IN ACCORDANCE WITH FIGURE R602.02.03 OF THE 2018 NCR. BRACED WALL PANEL CONNECTIONS TO FLOOR/CEILING SHALL BE DESIGNED IN ACCORDANCE WITH SECTION R602.02.04.
- CRIPPLE WALLS AND WALK OUT BASEMENT WALLS SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION R602.01.9.
- DESIGNED IN ACCORDANCE WITH SECTION R602.01.9.
- PORTAL WALLS SHALL BE DESIGNED IN ACCORDANCE WITH FIGURE R602.01.9.
- ON SCHEMATIC, SHADDED WALLS INDICATE BRACED WALL PANELS.
- ABBREVIATIONS:
 - GB - GYPSUM BOARD
 - WSP - WOOD STRUCTURAL PANEL
 - CS-WSP - CONTINUOUS SHEATHING METHOD
 - FF - PORTAL FRAME
 - FR-ENG - ENG PORTAL FRAME



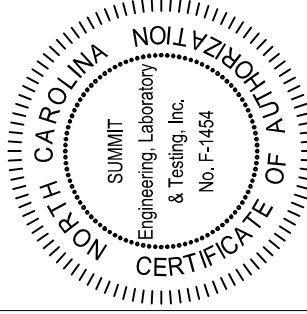
ALL ELEVATIONS

BRACING OPTION 2

SECOND FLOOR BRACING (FT)		
CONTINUOUS SHEATHING METHOD		
	REQUIRED	PROVIDED
FRONT SIDE	6.5	22.0
LEFT SIDE	5.1	39.5
REAR SIDE	6.5	29.0
RIGHT SIDE	5.1	44.0

THESE PLANS ARE DESIGNED IN ACCORDANCE WITH ARCHITECTURAL PLANS PROVIDED BY BATH/DOUGLAS. NOTES COMPLETED/REVIEWED ON 5/21/21. IT 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. THE CLIENT SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND GUARANTEE THE ADEQUACY OF THESE STRUCTURAL PLANS WHEN USED WITH ARCHITECTURAL PLANS DATED DIFFERENTLY THAN THE DATE LISTED ABOVE.

SEE SHEET S80 FOR NOTES AND MORE INFORMATION



PROJECT
Burlington
CLIENT
Smith Douglas Homes - Raleigh
2520 Reliance Ave.
Apex, NC 27539

CURRENT DRAWING
DATE: 5/25/2021
SCALE: 1/8"=1'-0"
PROJECT #: 3832.202R
DRAWN BY: KWW
CHECKED BY: BCP

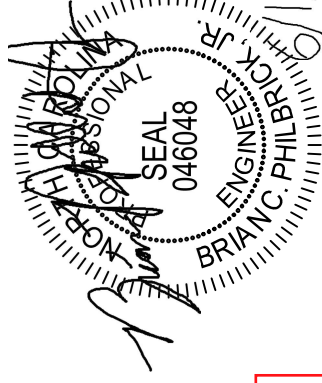
ORIGINAL DRAWING
DATE: 12/11/15
PROJECT#: 3832.09

REFER TO COVER SHEET FOR A COMPLETE LIST OF REVISIONS

SHEET

S8.1

Cane Mill Lot 28



STRUCTURAL MEMBERS ONLY

STRUCTURAL MEMBERS ONLY
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STRUCTURAL ANALYSIS BASED ON 2018 NCR.

SECOND 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:

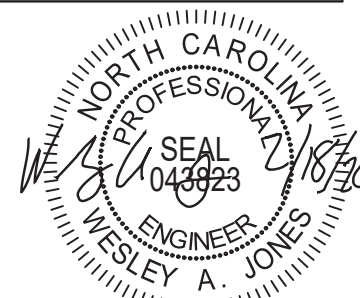
- Fabrication and placement of structural fiberboard sheathing shall be in accordance with the applicable AFA standards.
- Fiberboard wall sheathing shall comply with the requirements of local building codes for the appropriate state as indicated on these drawings. Refer to wall bracing notes in plan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

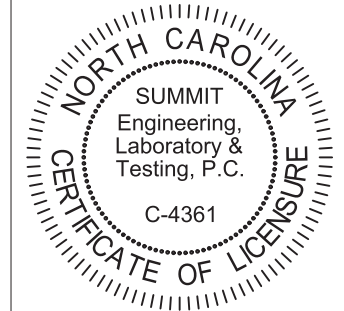
STRUCTURAL STEEL:

- 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.



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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

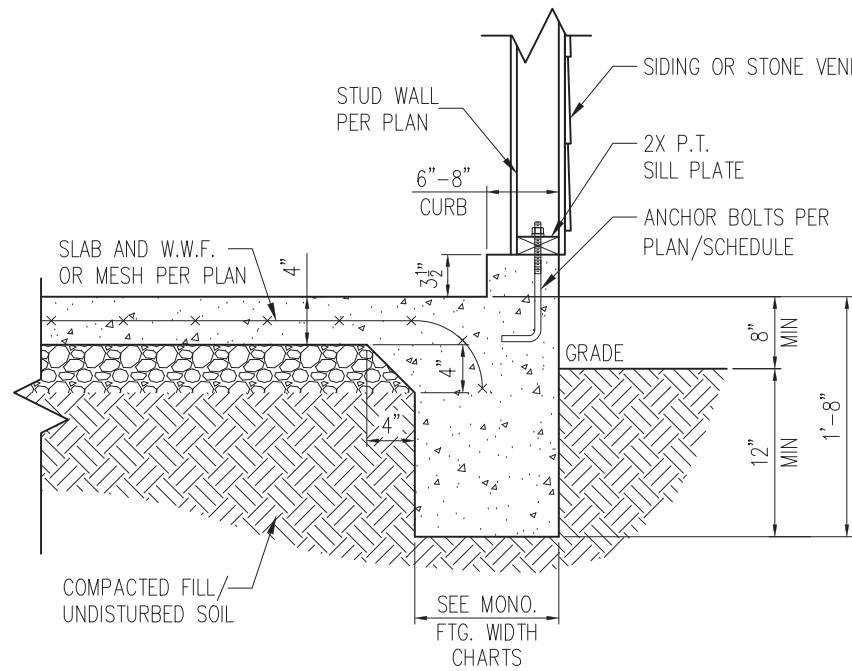
ORIGINAL DRAWING

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

REFER TO COVER SHEET FOR A COMPLETE LIST OF REVISIONS

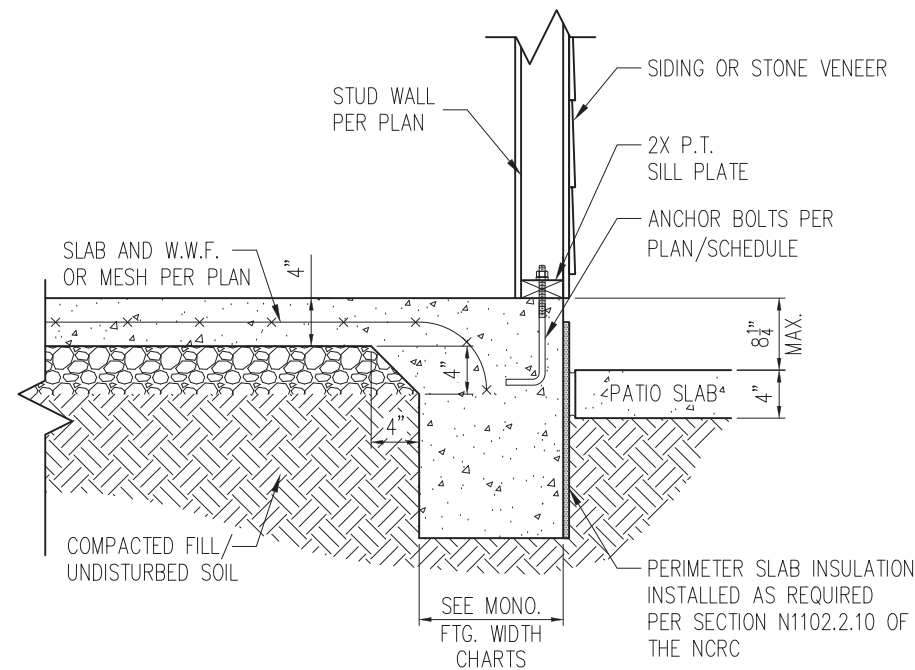
SHEET

CS2



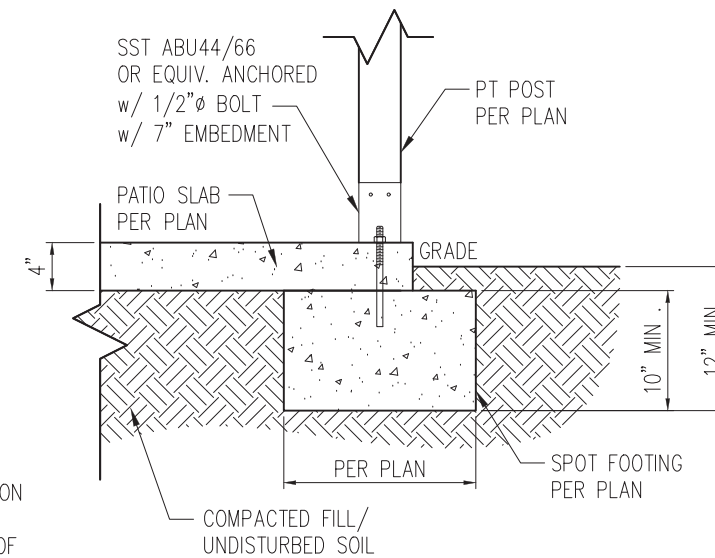
STANDARD - SIDING/STONE

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

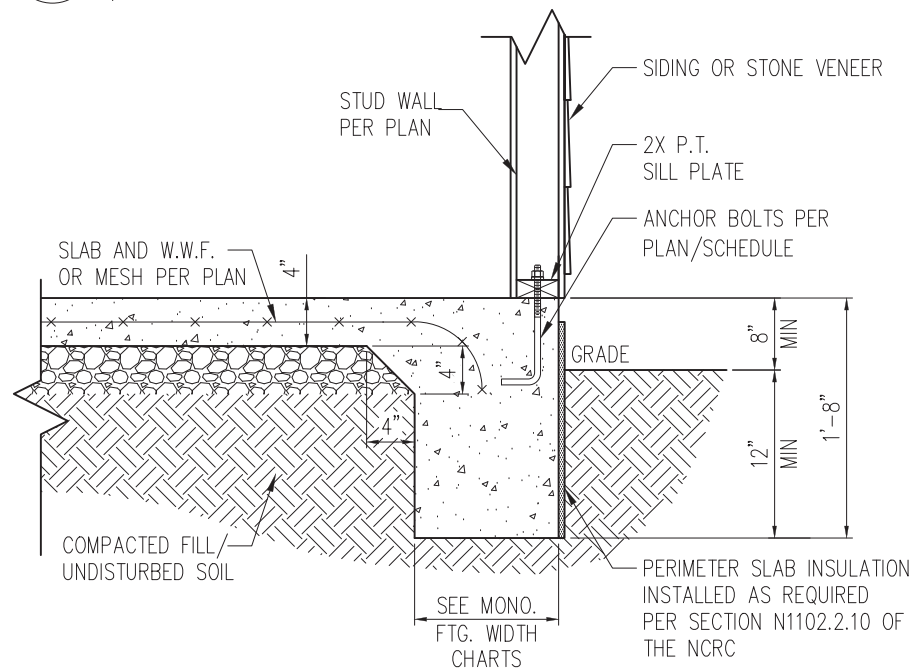


STANDARD - SIDING/STONE

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

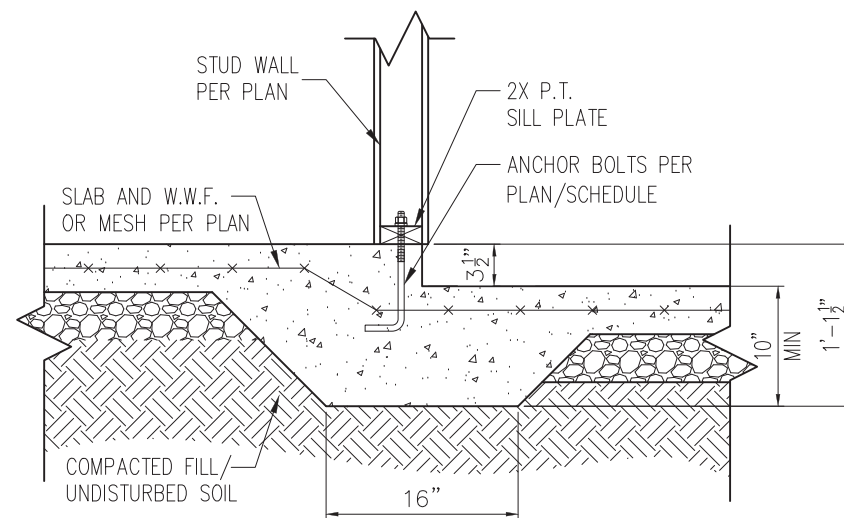


2A COVERED PATIO DETAIL
D1m 3/4" = 1'-0"



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" Ø 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" Ø HILTI THREADED ROD w/ HIT HY150 ADHESIVE	7"	6'-0"	YES	YES

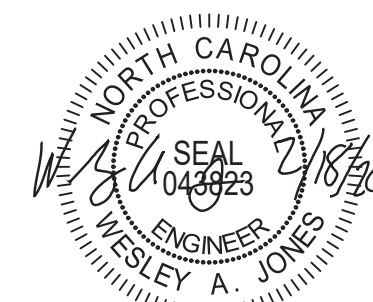
NOTE: INSTALL ALL ANCHORS 12" MAX. FROM ALL BOTTOM PLATE ENDS AND JOINTS.

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"

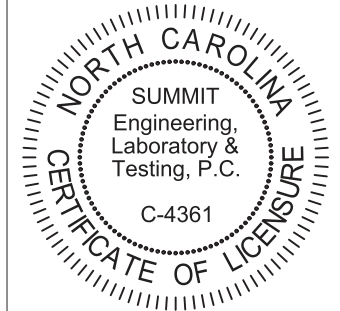
*5" BRICK LEDGE HAS BEEN ADDED TO THE MONOLITHIC FOOTING WIDTH FOR BRICK SUPPORT

- NOTES:
- REFER TO GENERAL NOTES & SPECIFICATIONS ON SHEET CS2 FOR ADDITIONAL INFORMATION.
 - 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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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

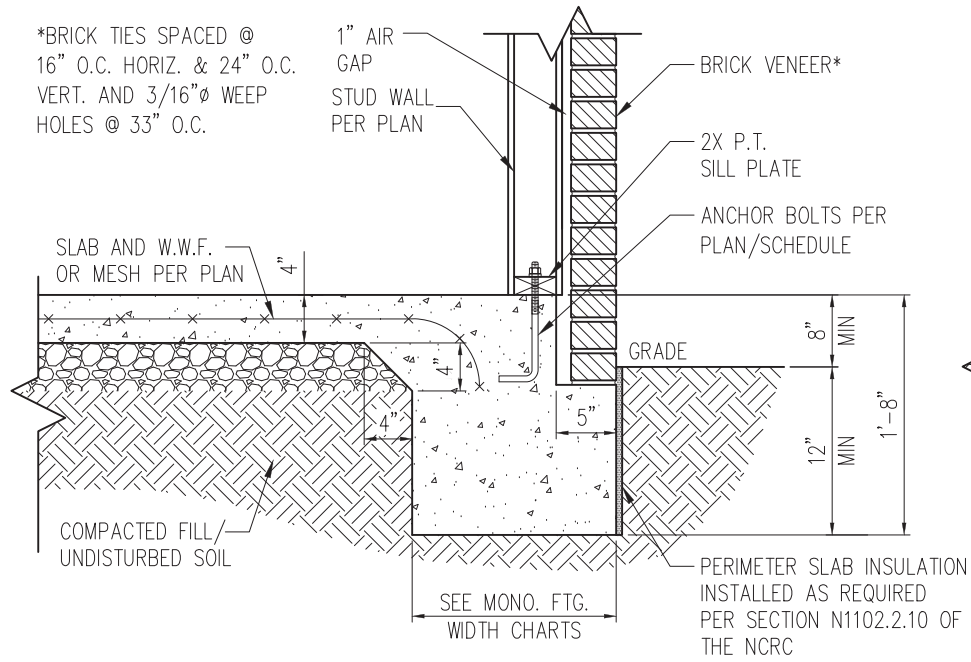
ORIGINAL DRAWING
NO. DATE PROJECT #
0 1/7/16 3832

REFER TO COVER SHEET FOR A COMPLETE LIST OF REVISIONS

SHEET

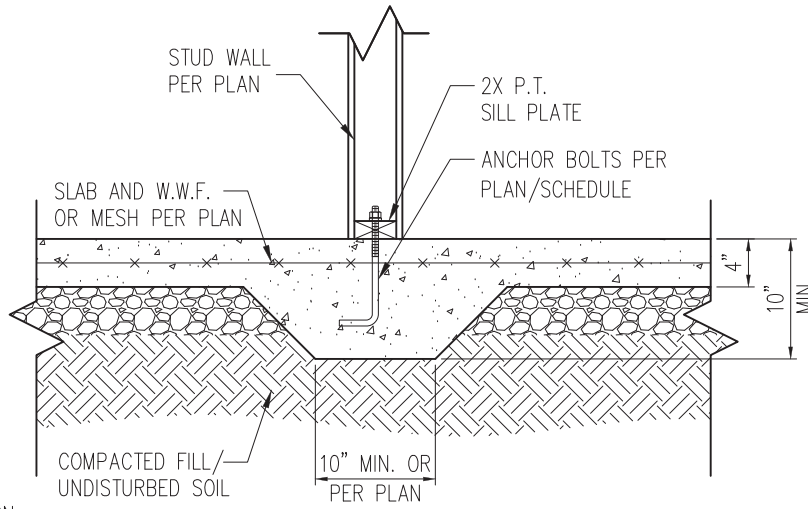
D1m

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



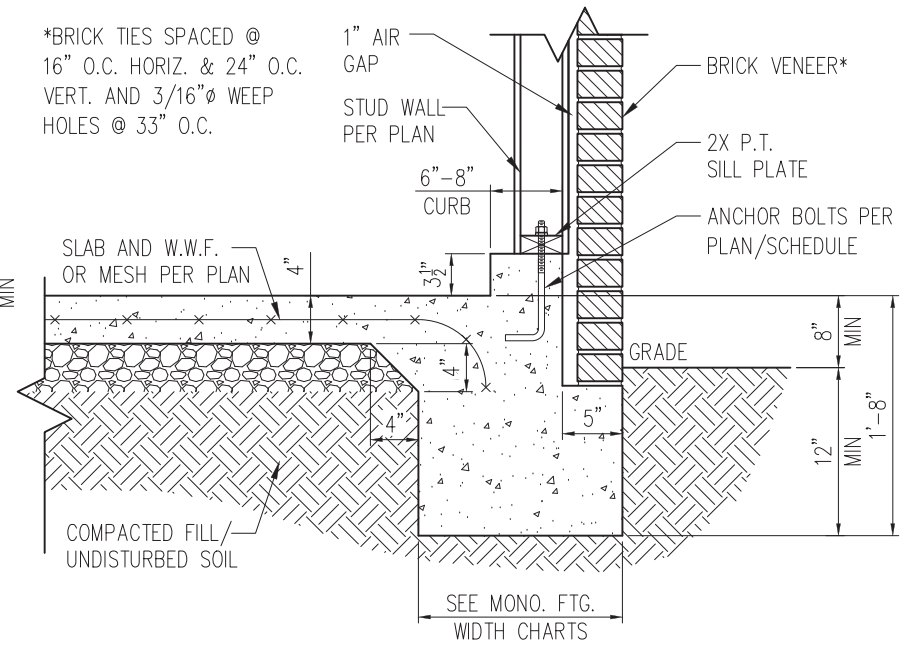
STANDARD - BRICK

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



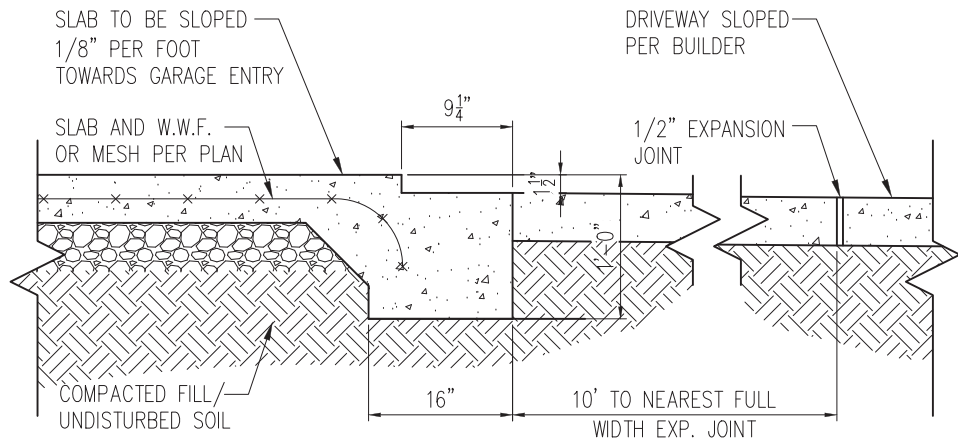
3 TYP. THICKENED SLAB DETAIL
D2m 3/4" = 1'-0"

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

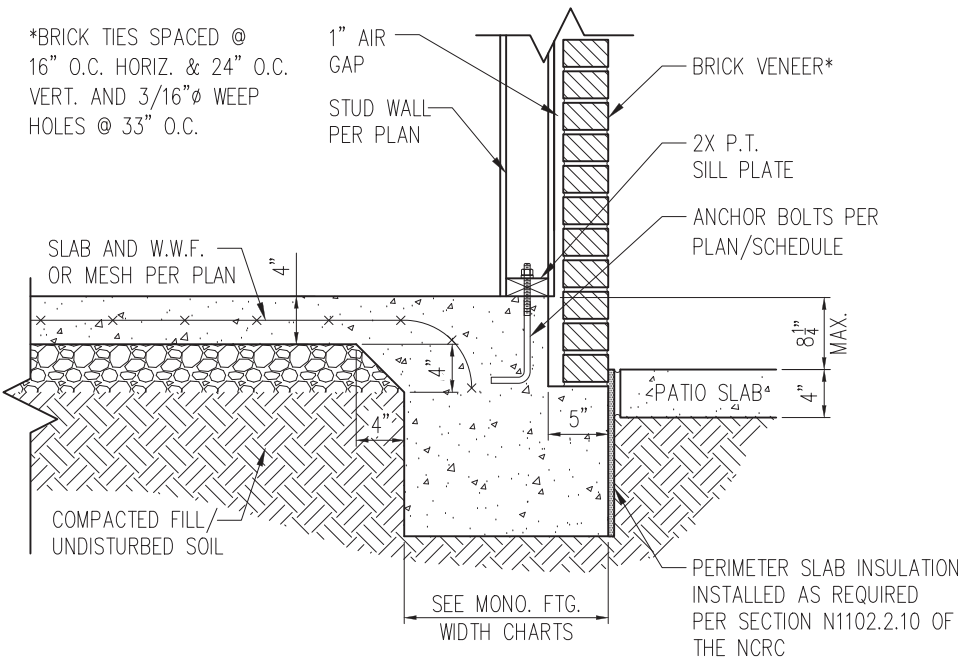


STANDARD - BRICK

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"

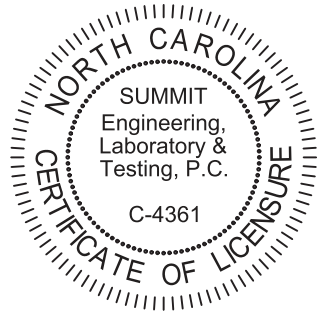
NOTES:

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.



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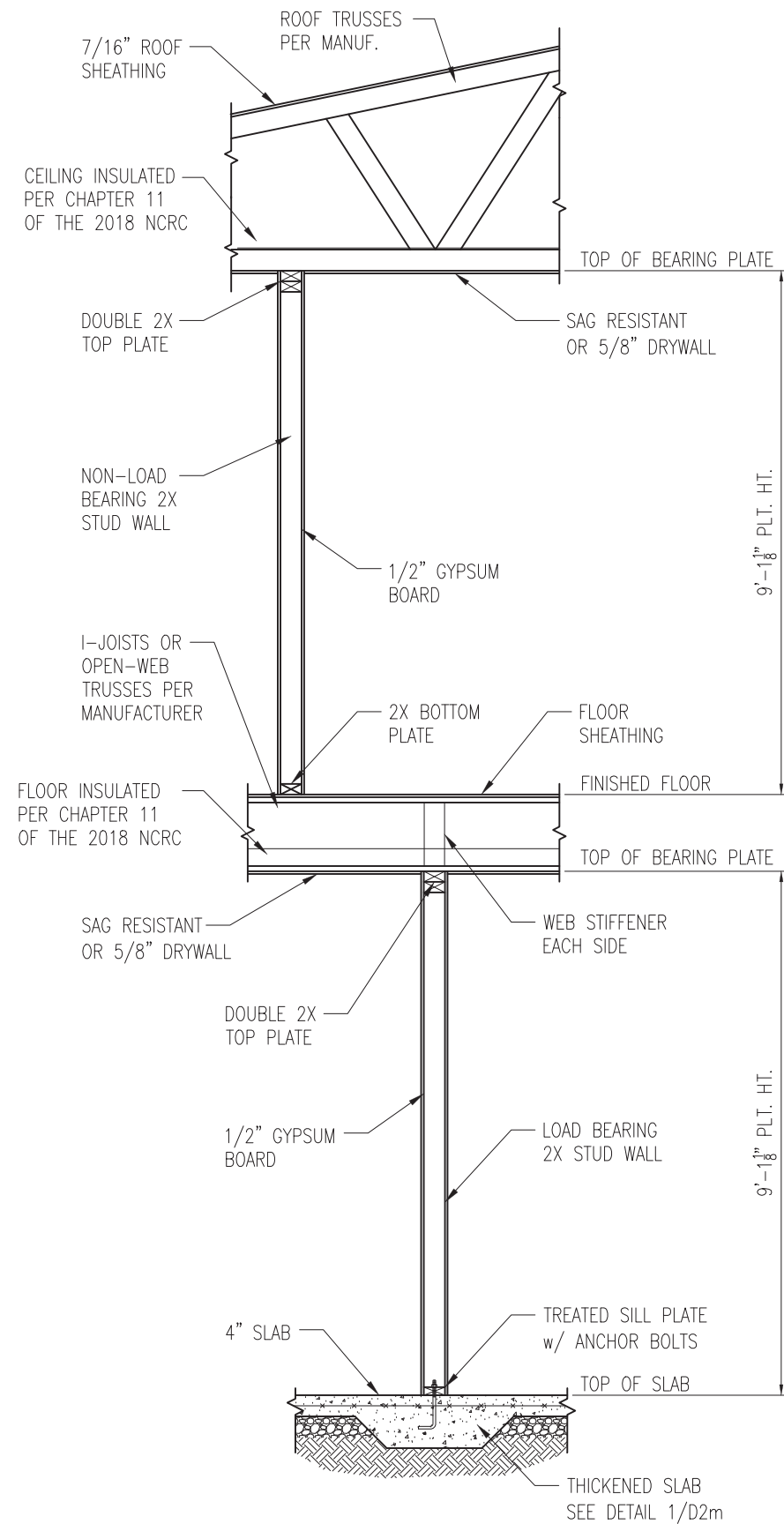
PROJECT
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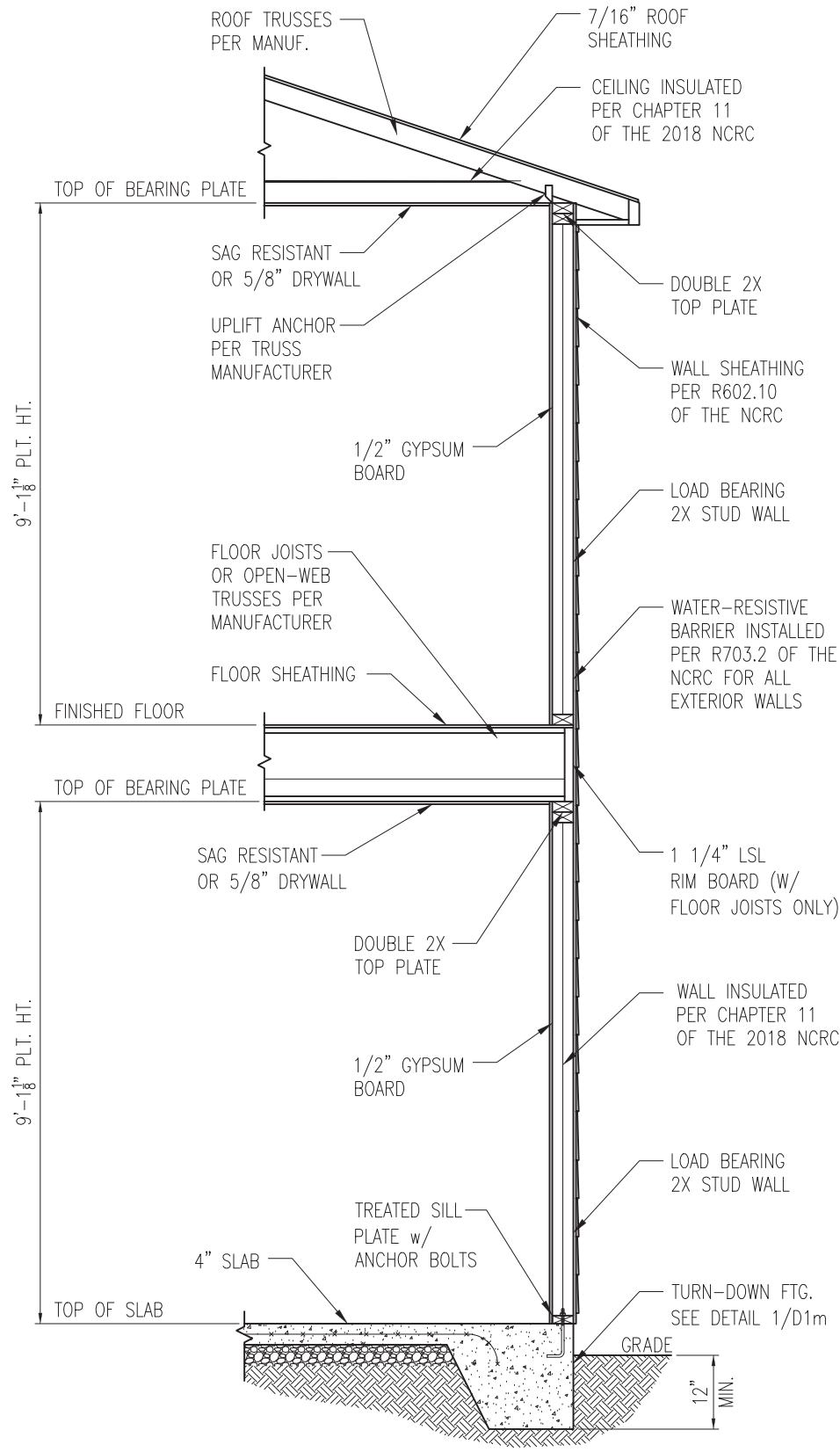
ORIGINAL DRAWING
NO. DATE PROJECT #
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SHEET
D2m



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



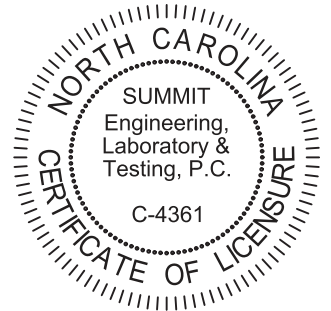
2 TYP. EXTERIOR LOAD BEARING WALL SECTION
 D3m 3/4" = 1'-0"
 -SIMILAR w/ BRICK AND STONE
 -BRICK TIES SPACED @ 16" O.C. HORIZ. & 24" O.C. VERT.
 -MIN. 3/16" Ø WEEP HOLES @ 33" O.C.

- NOTES:
1. REFER TO GENERAL NOTES & SPECIFICATIONS ON SHEET CS2 FOR ADDITIONAL INFORMATION.
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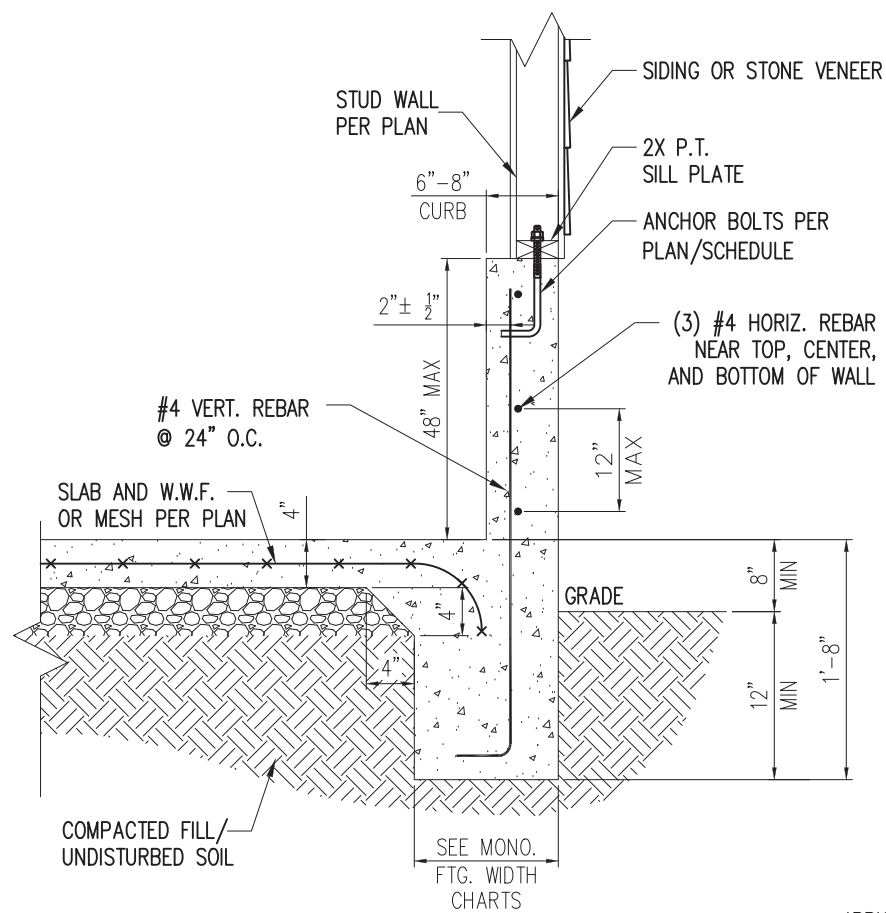
PROJECT
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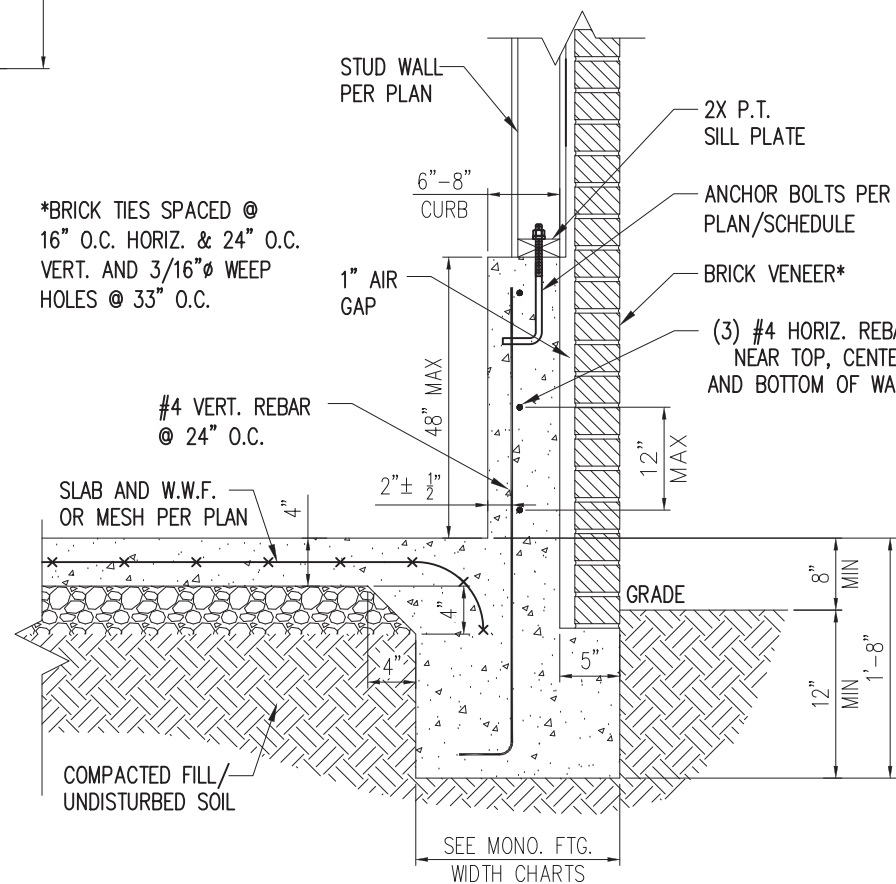
SHEET
D3m



STANDARD - SIDING/STONE

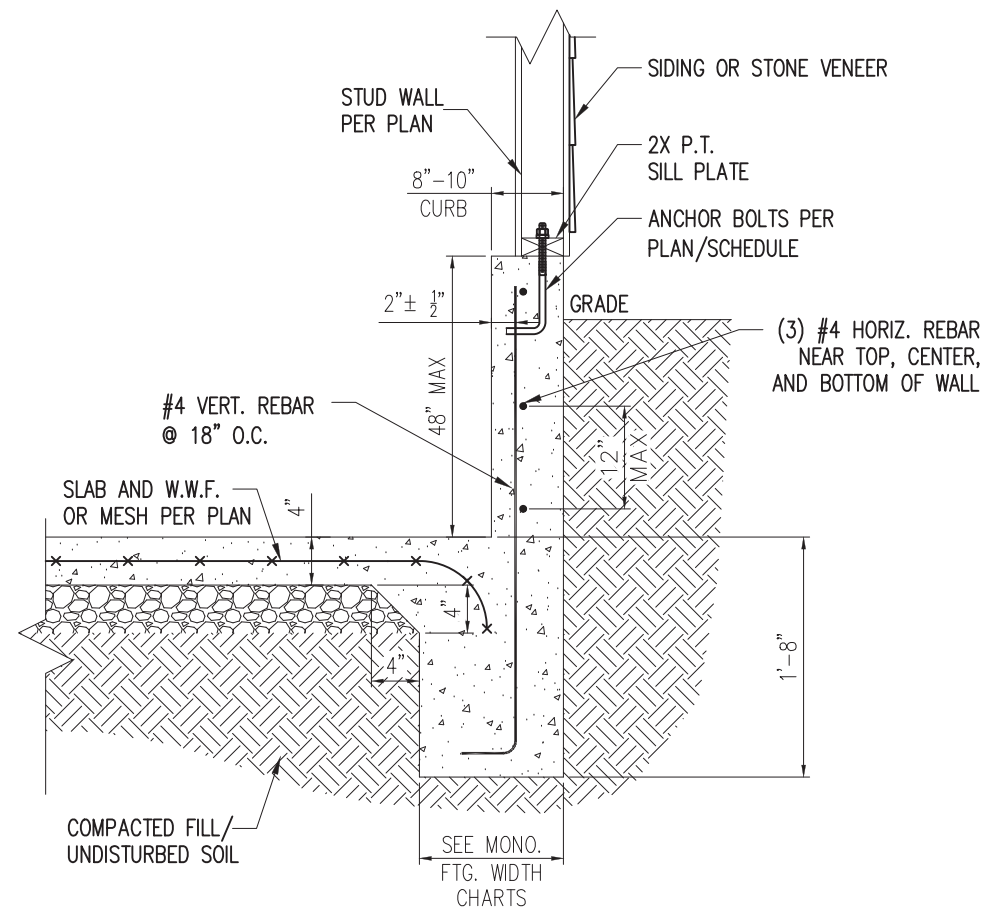
1 EXTENDED GARAGE CURB DETAIL
D4m NTS

*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



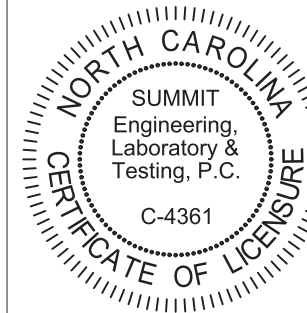
STANDARD - SIDING/STONE

2 EXTENDED GARAGE CURB DETAIL
W/ UNBALANCED FILL
D4m NTS



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CLIENT
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Woodstock, GA 30188

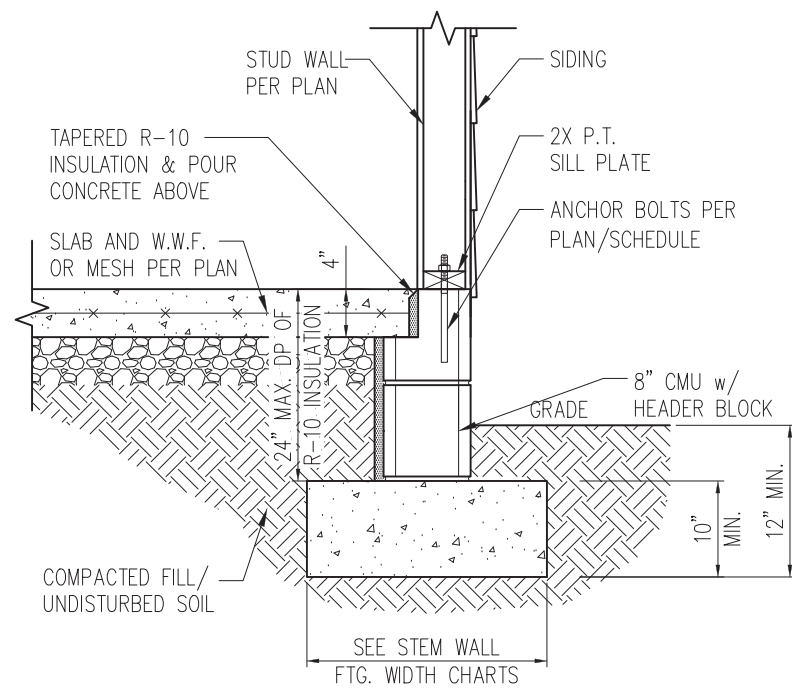
CURRENT DRAWING
DATE: 2/18/20
SCALE: NTS
PROJECT #: 3832
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ORIGINAL DRAWING
NO. DATE PROJECT #
0 1/7/16 3832

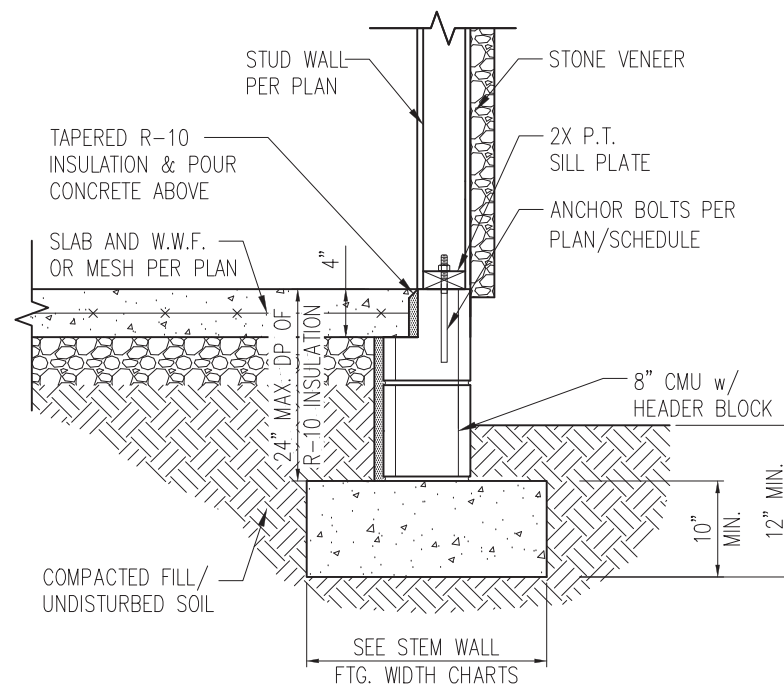
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SHEET

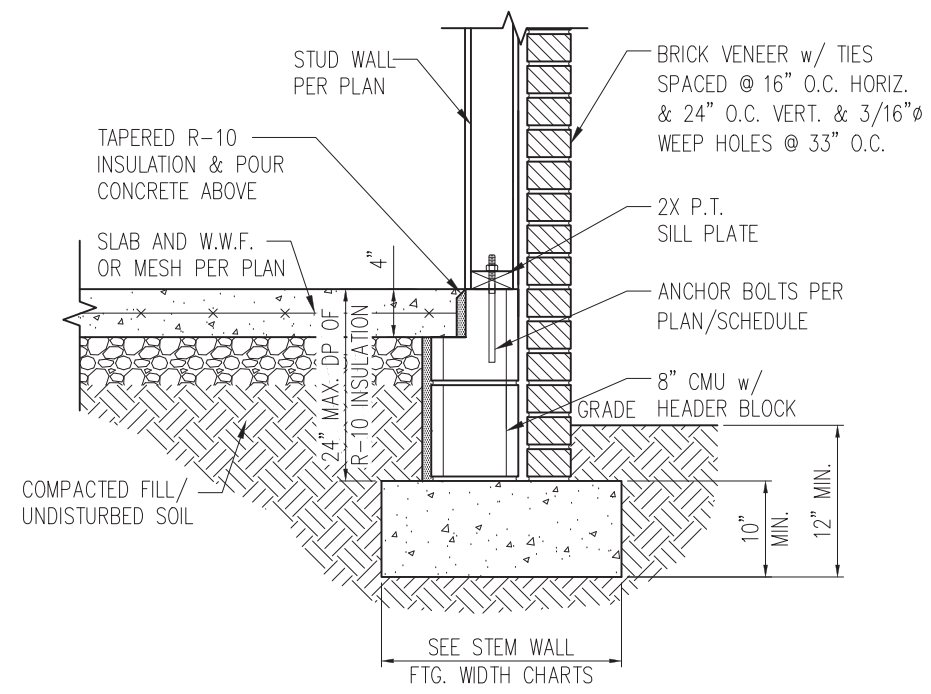
D4m



STANDARD - SIDING

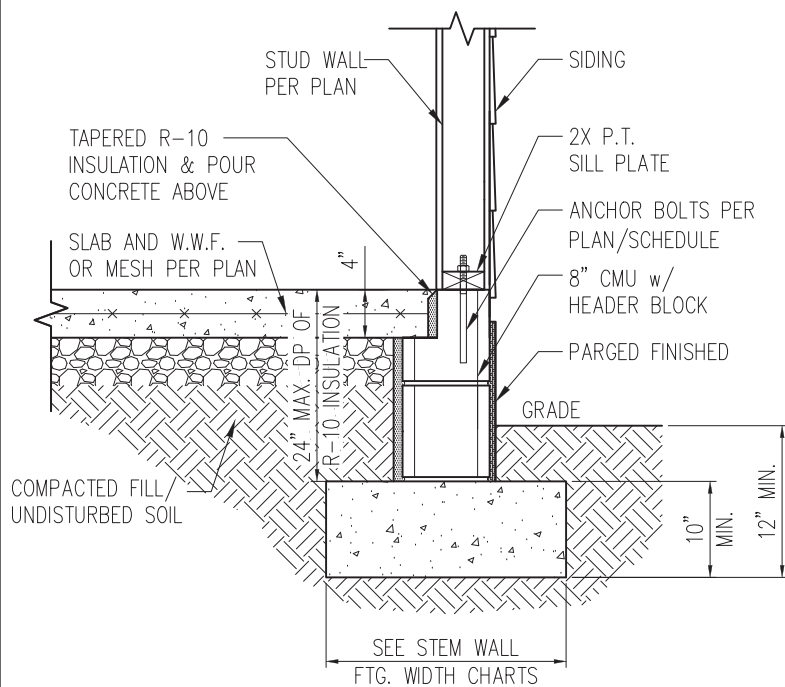


STANDARD - STONE

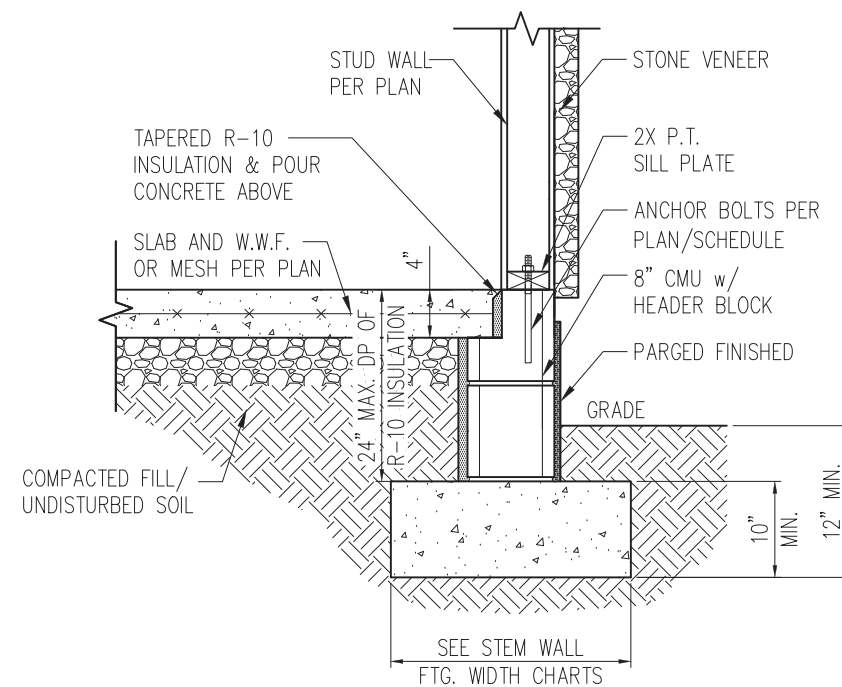


STANDARD - BRICK

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

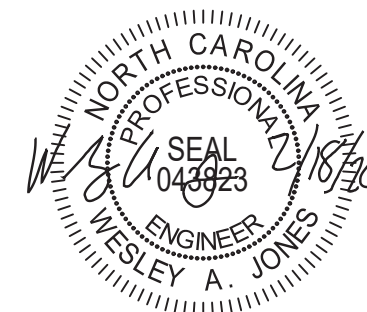
WALL ANCHOR SCHEDULE

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.

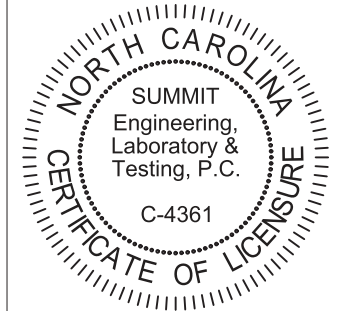
NOTES:

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- SEE ARCH. DWGS. FOR ALL TOP OF THE SLAB ELEVATIONS, SLOPS AND DEPRESSIONS.



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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

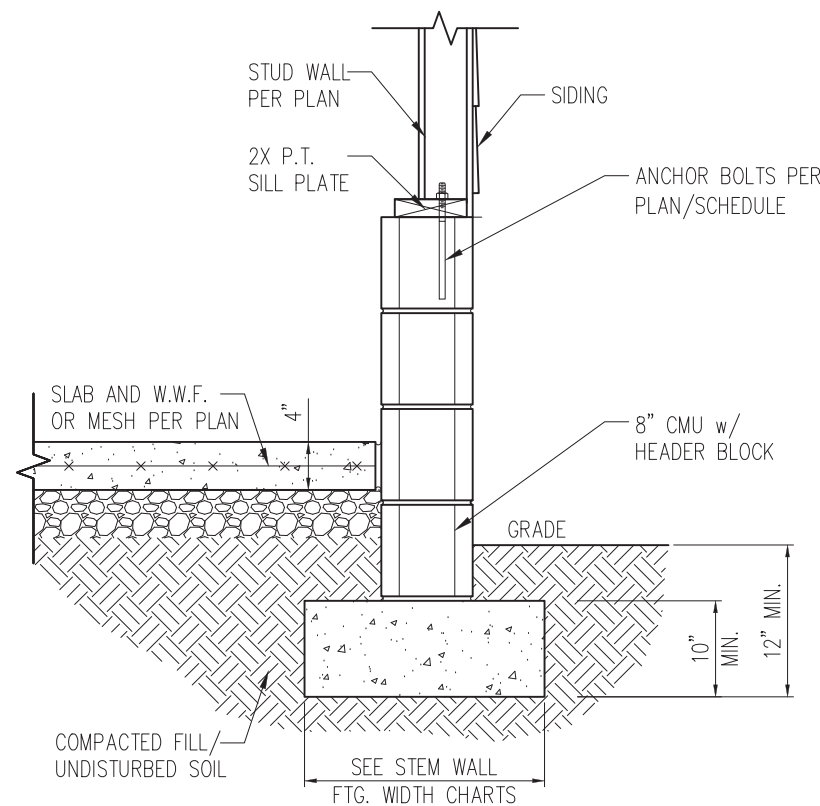
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NO.	DATE	PROJECT #
0	1/7/16	3832

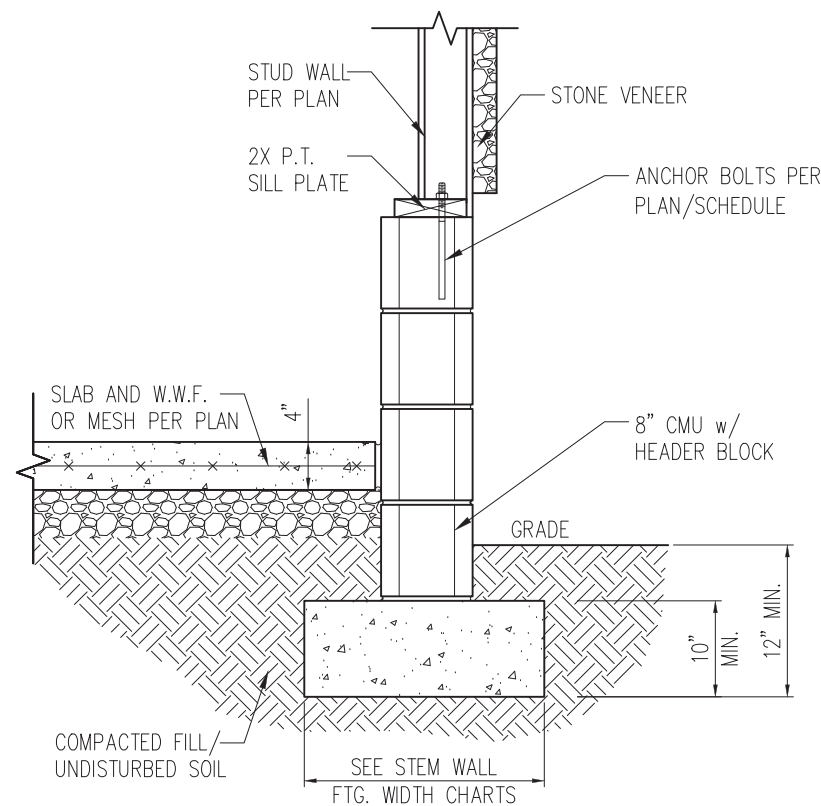
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SHEET

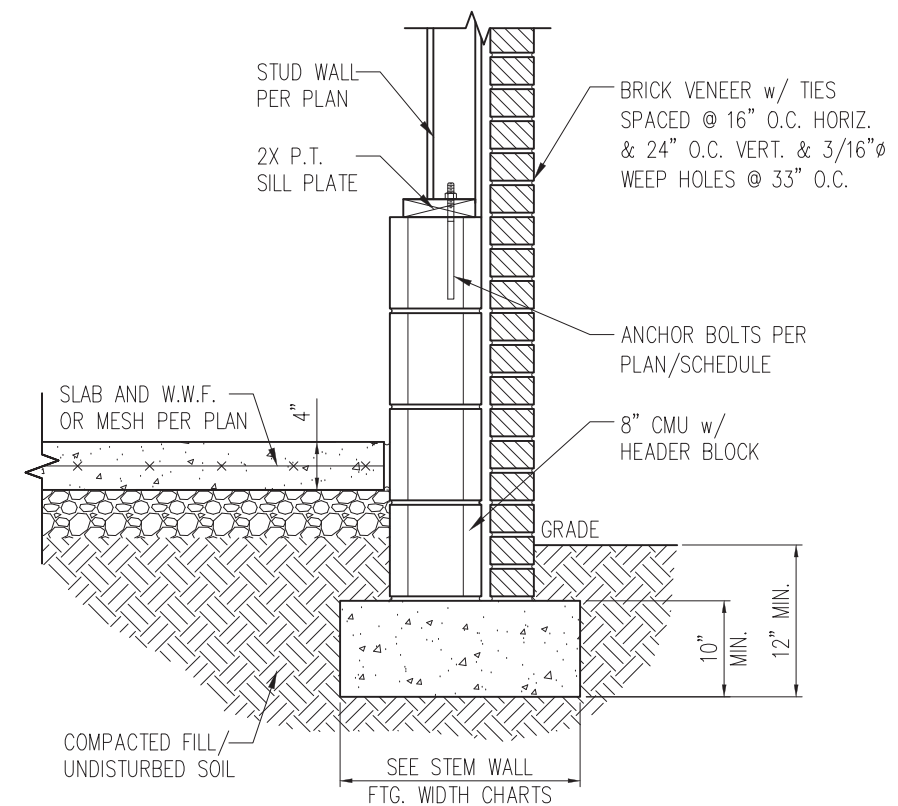
D1s



STANDARD - SIDING

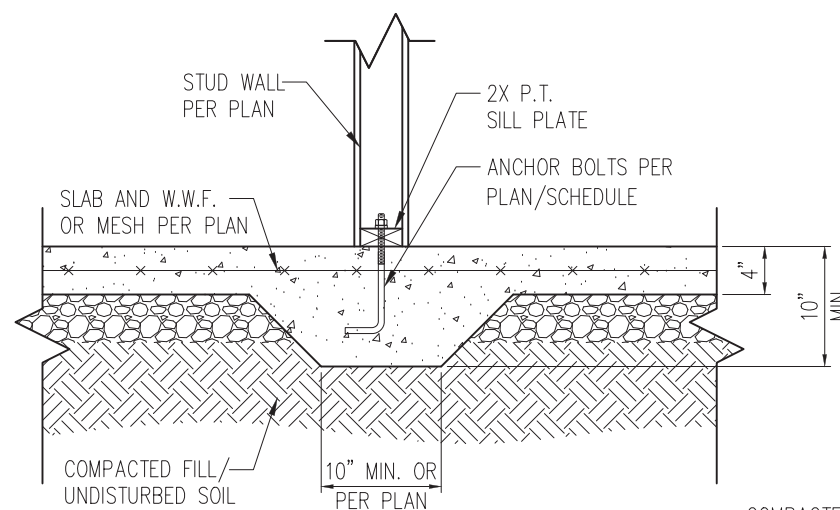


STANDARD - STONE

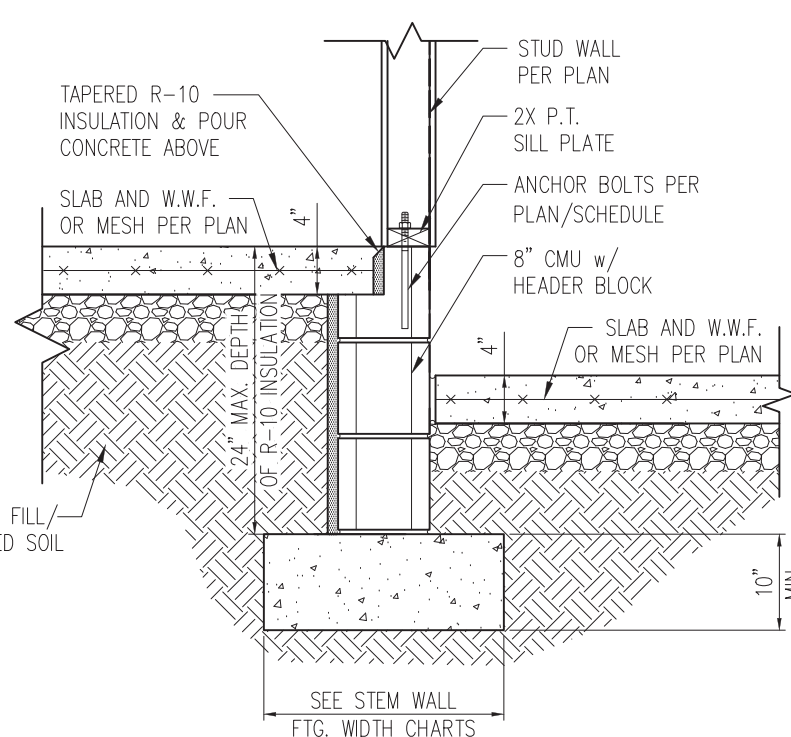


STANDARD - BRICK

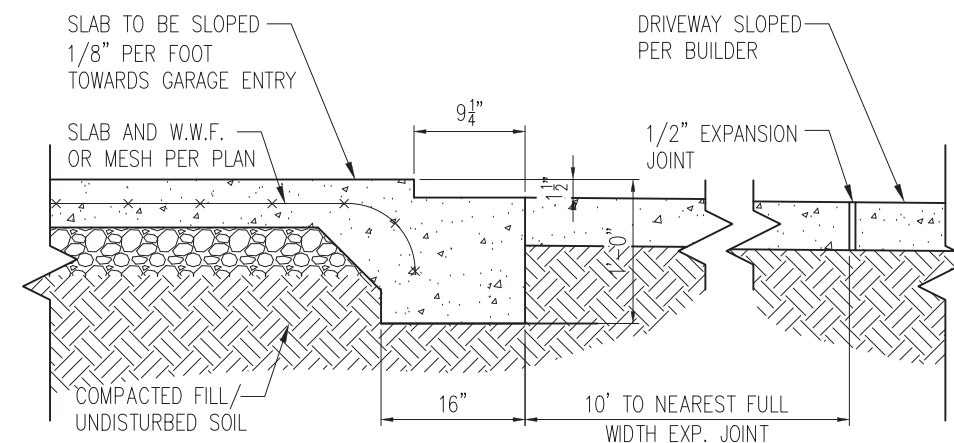
1 TYP. GARAGE CURB DETAIL
D2s 3/4" = 1'-0"



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

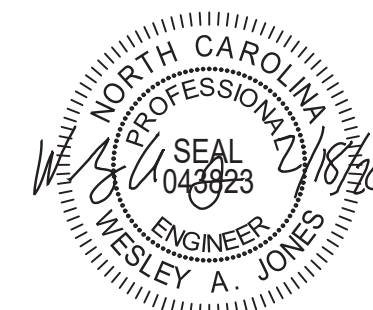


3 HOUSE/GARAGE WALL DETAIL
D2s 3/4" = 1'-0"



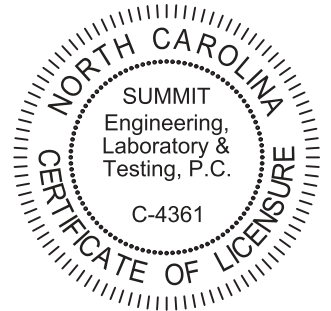
4 SLAB AT GARAGE DOOR
D2s 3/4" = 1'-0"

- NOTES:
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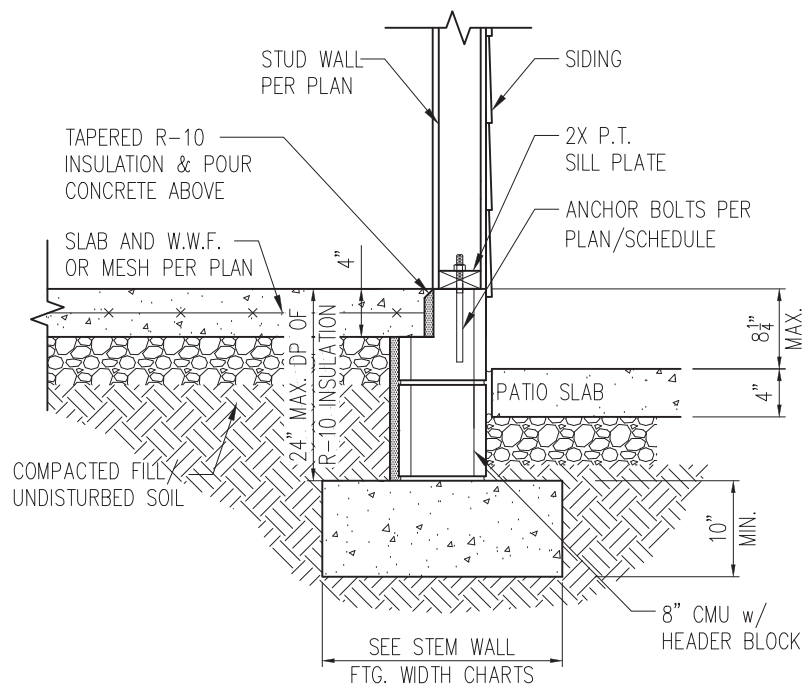


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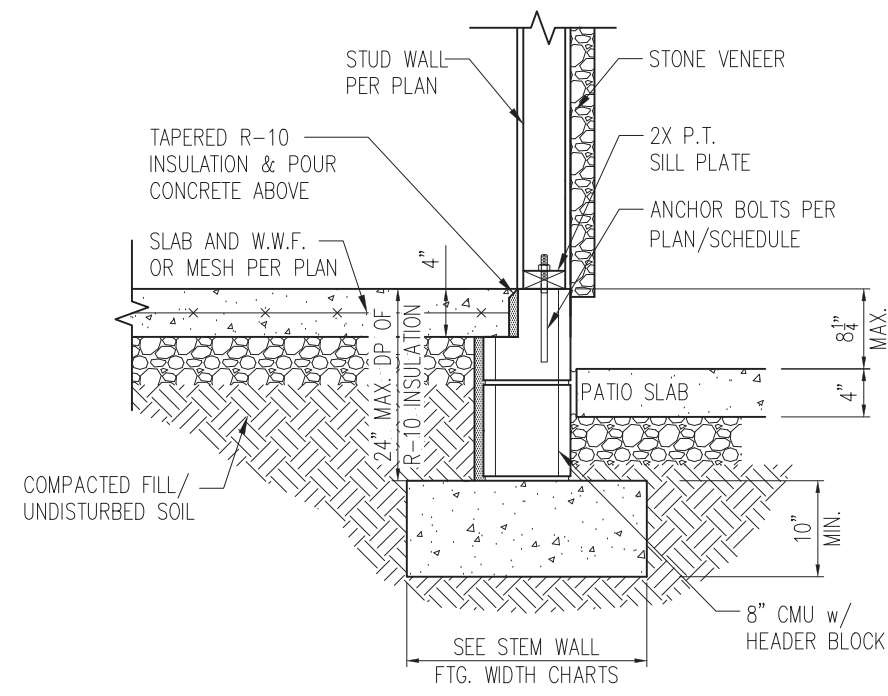
CURRENT DRAWING		
DATE: 2/18/20		
SCALE: NTS		
PROJECT #: 3832		
DRAWN BY: LBV		
CHECKED BY: WAJ		
ORIGINAL DRAWING		
NO.	DATE	PROJECT #
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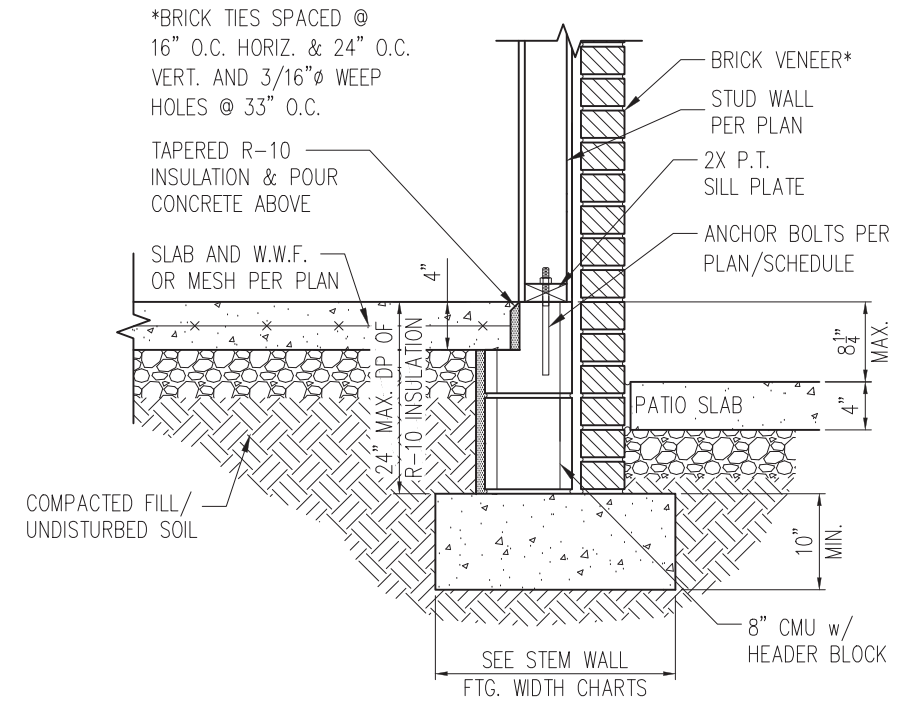
SHEET
D2s



STANDARD - SIDING

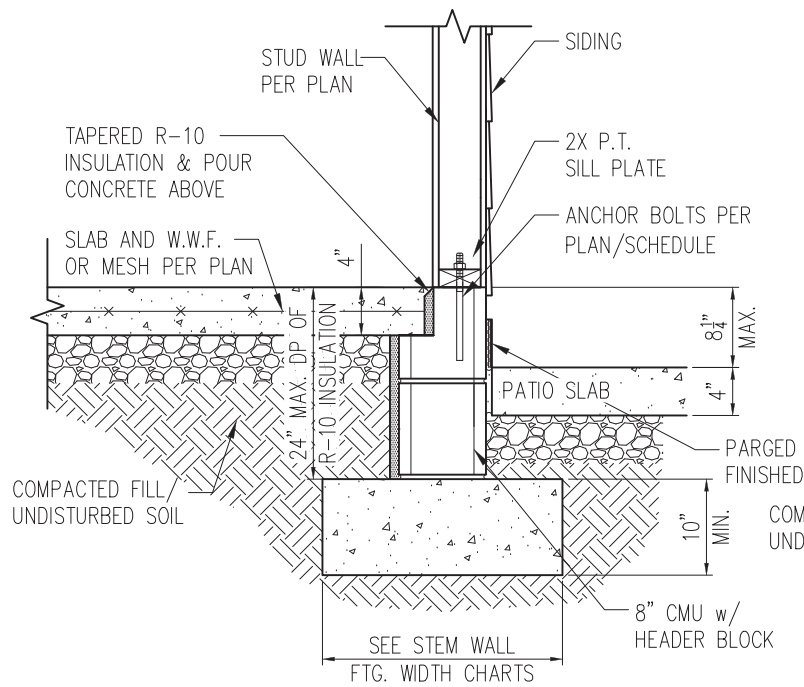


STANDARD - STONE

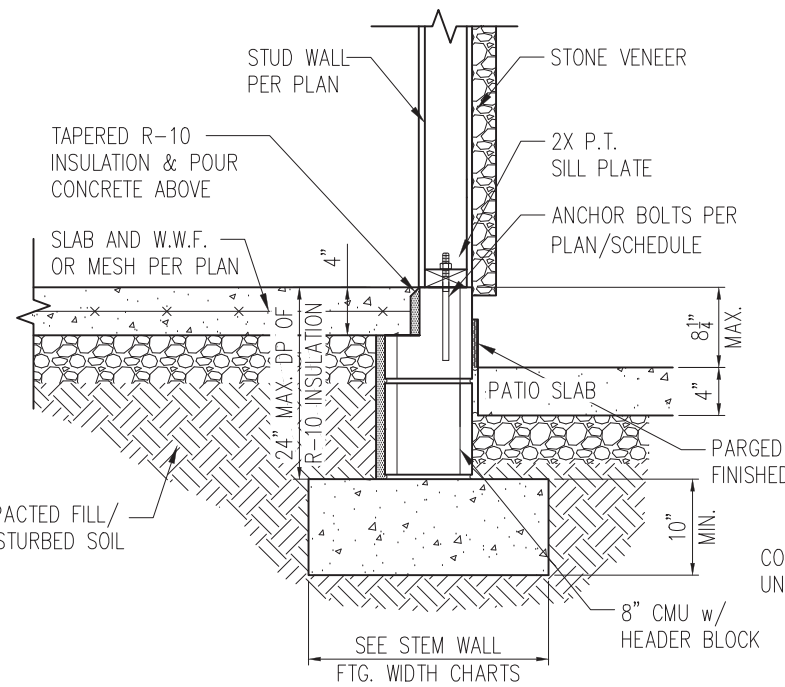


STANDARD - BRICK

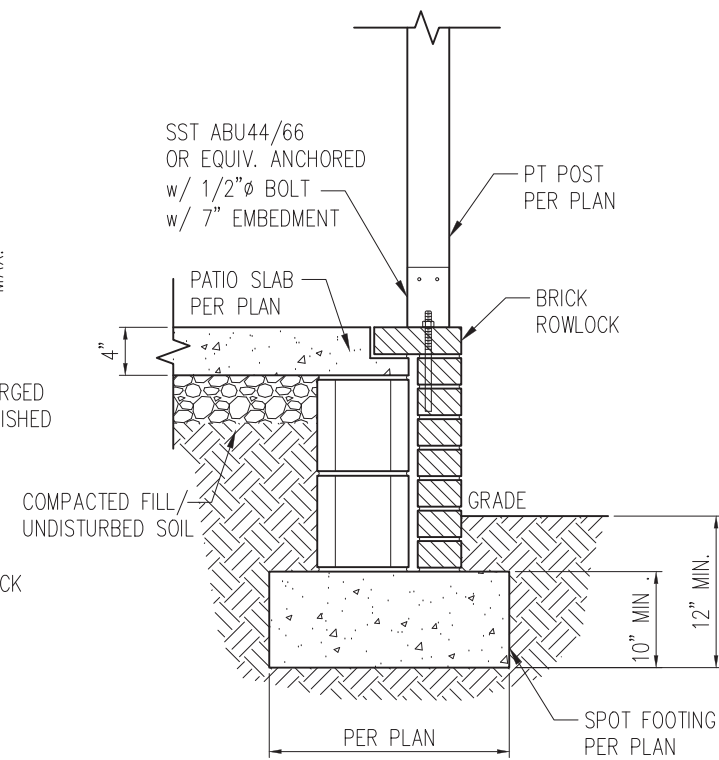
1 PORCH SLAB DETAIL
D3s 3/4" = 1'-0"



STANDARD - SIDING



STANDARD - STONE



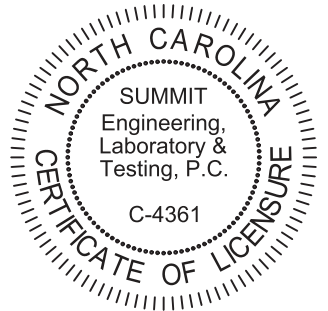
2 COVERED PORCH DETAIL
D3s 3/4" = 1'-0"

- 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.



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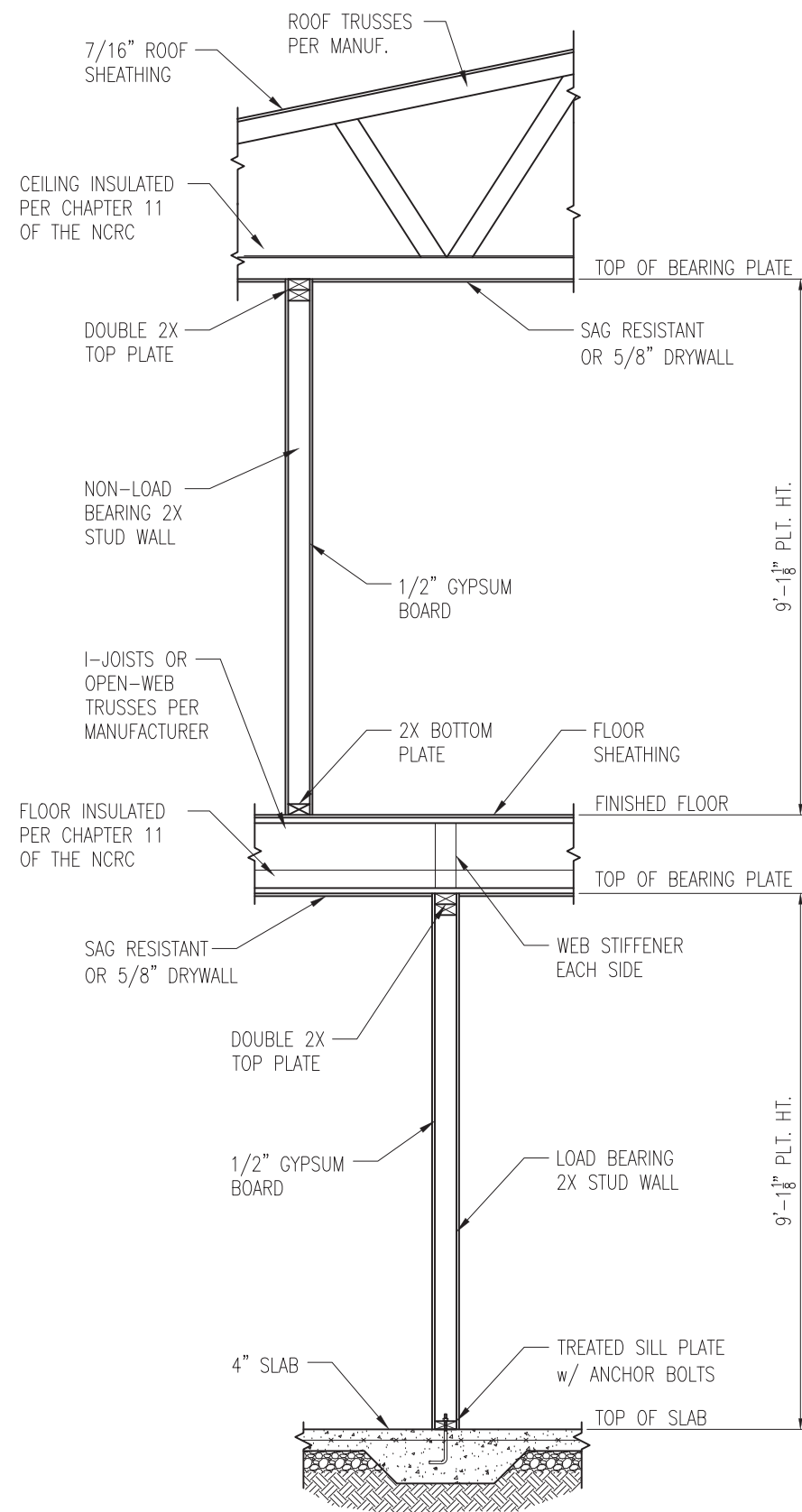
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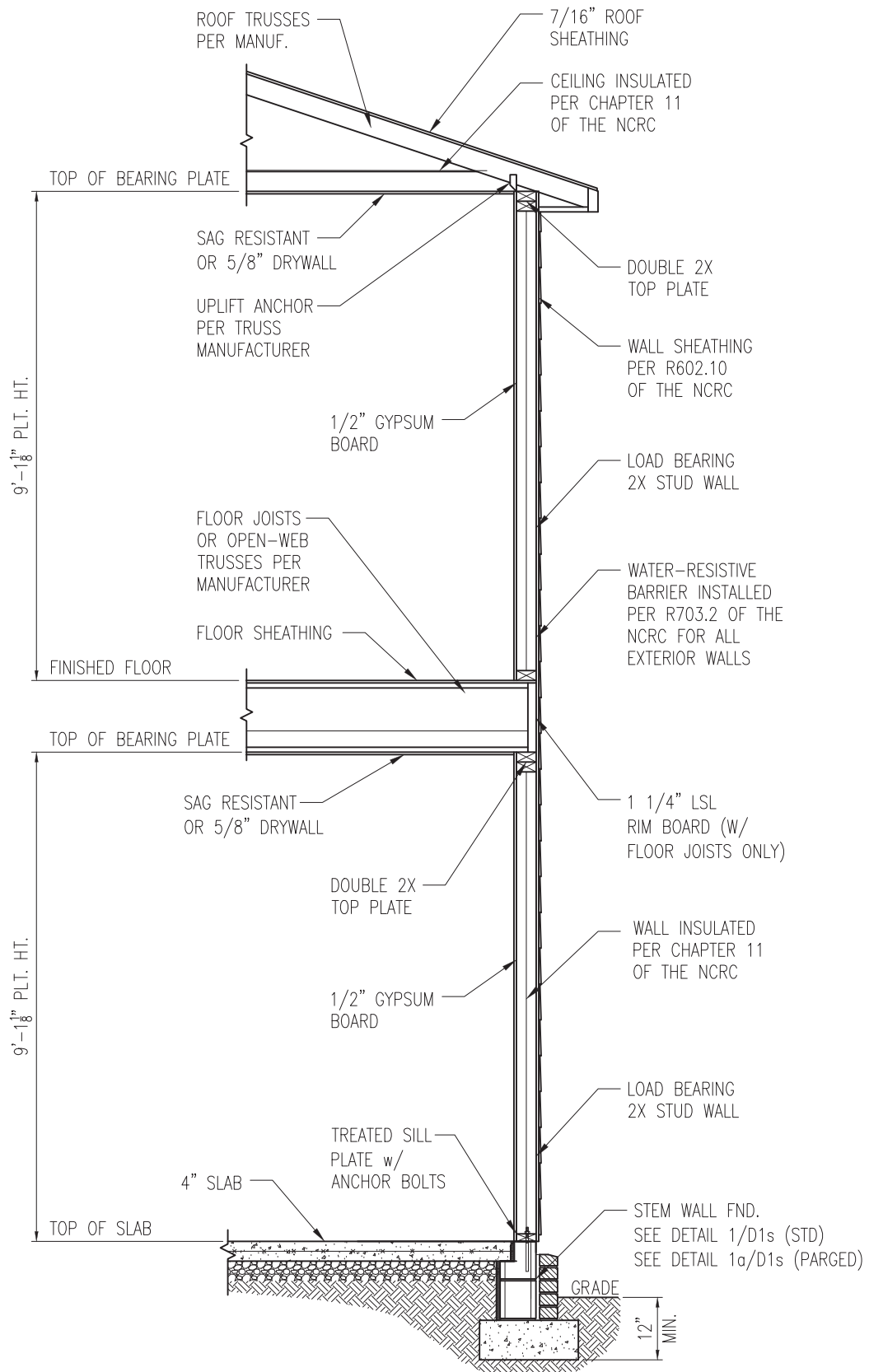
ORIGINAL DRAWING
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REFER TO COVER SHEET FOR A COMPLETE LIST OF REVISIONS

SHEET
D3s



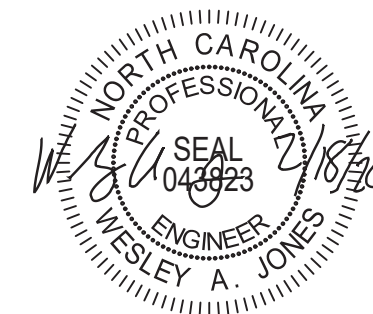
1 TYP. INTERIOR LOAD BEARING WALL SECTION
 D4s 3/4" = 1'-0"



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" Ø WEEP HOLES @ 33" O.C.

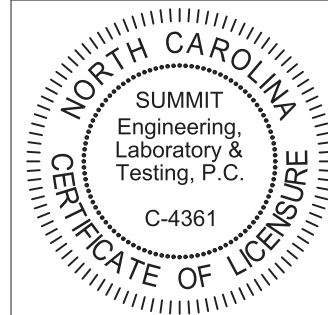
NOTES:

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



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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

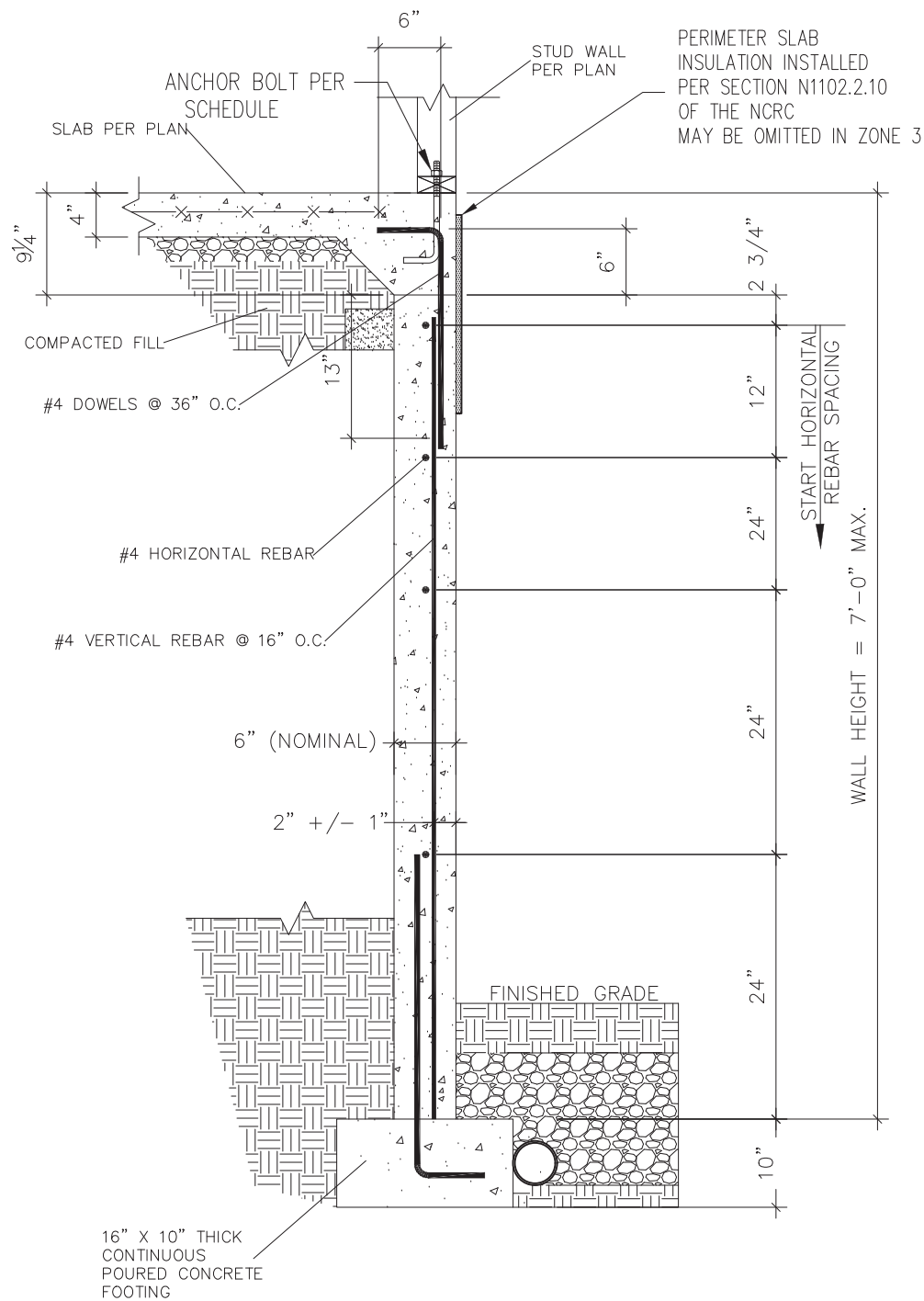
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NO.	DATE	PROJECT #
0	1/7/16	3832

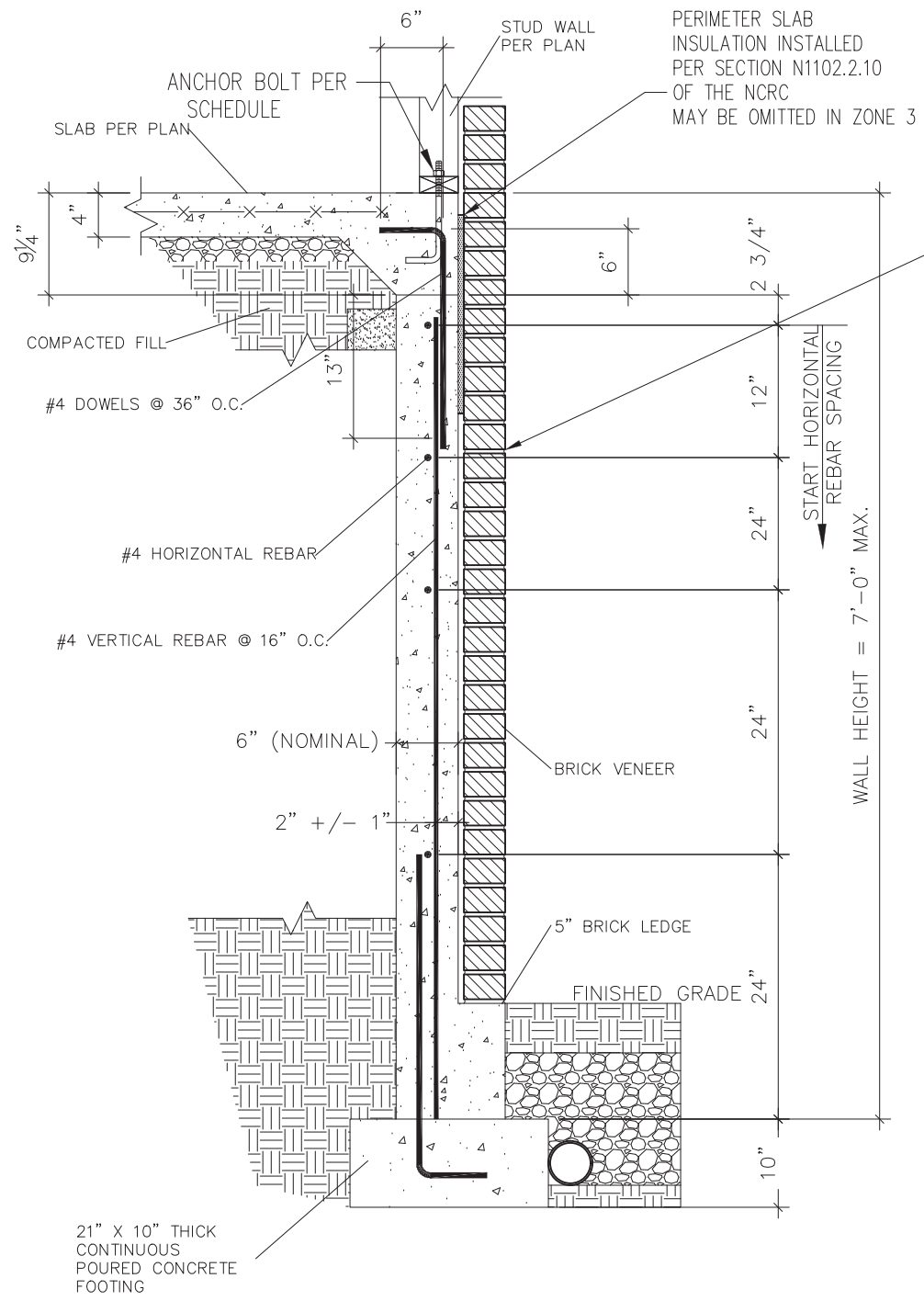
REFER TO COVER SHEET FOR A COMPLETE LIST OF REVISIONS

SHEET

D4s



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



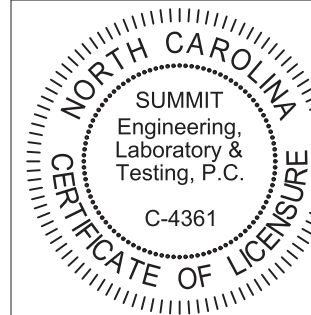
2 SUBWALL FOUNDATION W/ BRICK VENEER
 D5s 3/4" = 1'-0"

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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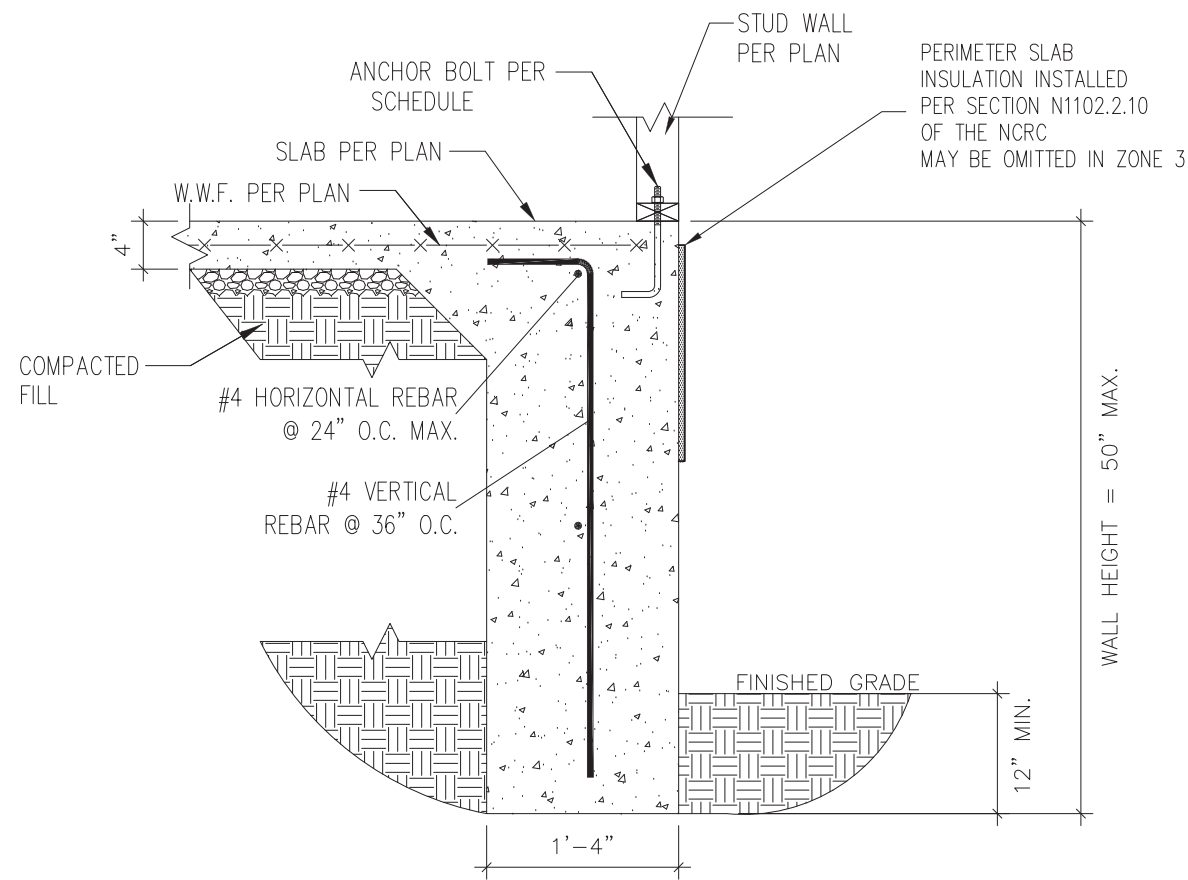
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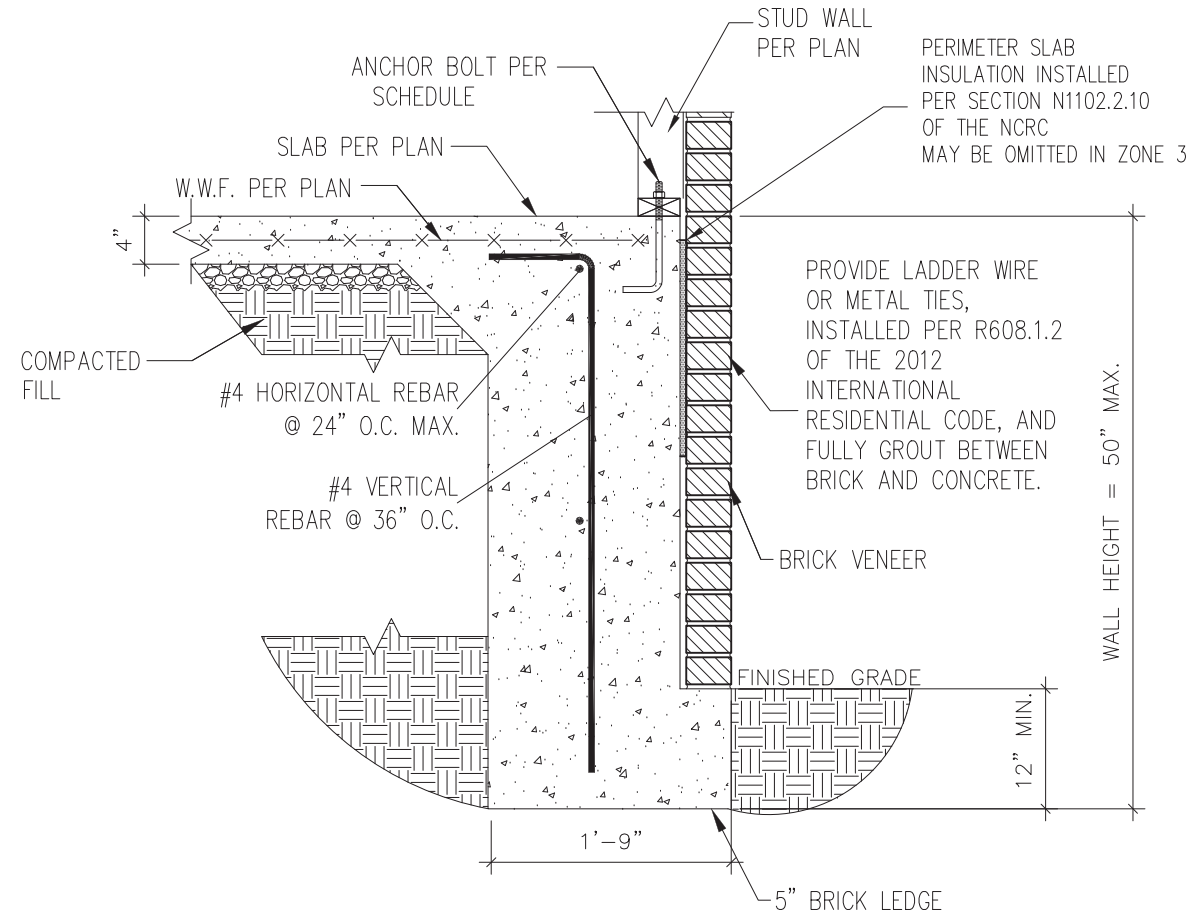
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 NO. DATE PROJECT #
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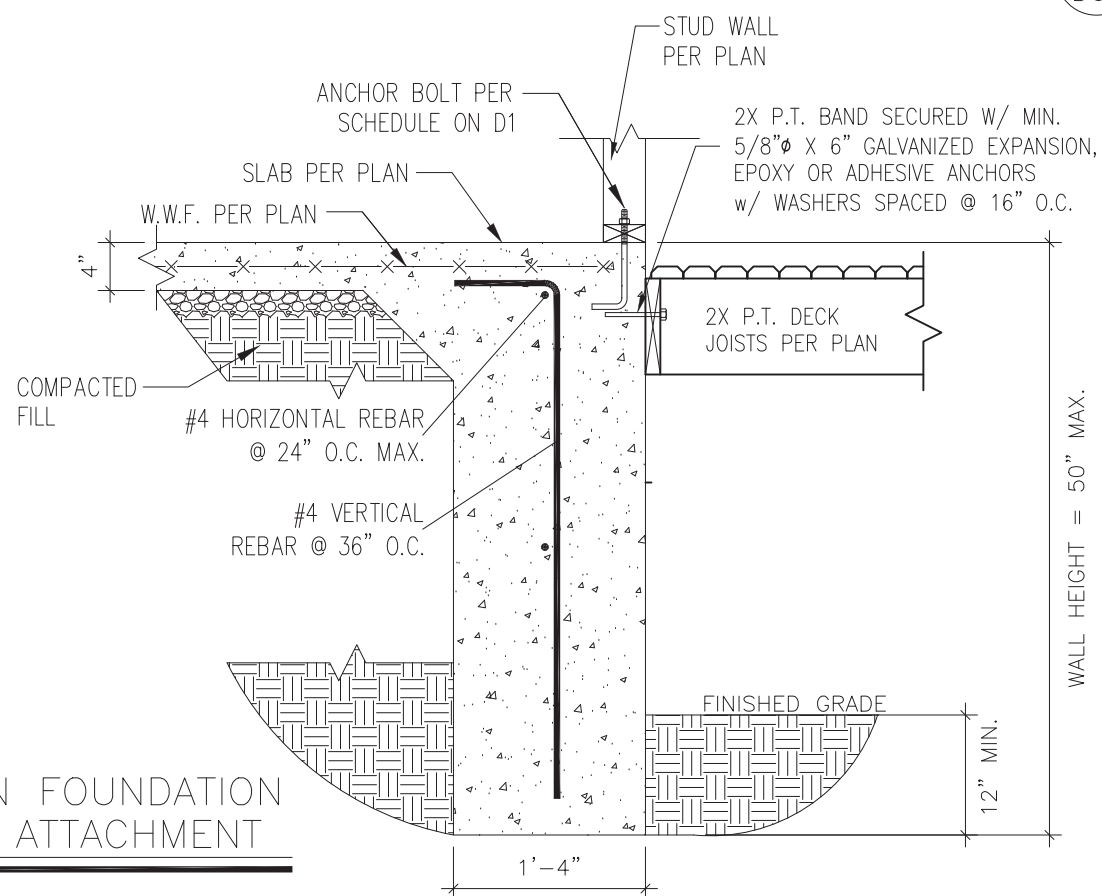
SHEET
D5s



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



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

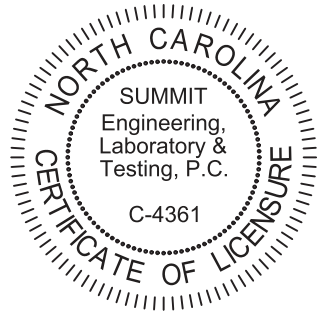


3 TURNDOWN FOUNDATION W/ DECK ATTACHMENT
 D6s 3/4" = 1'-0"



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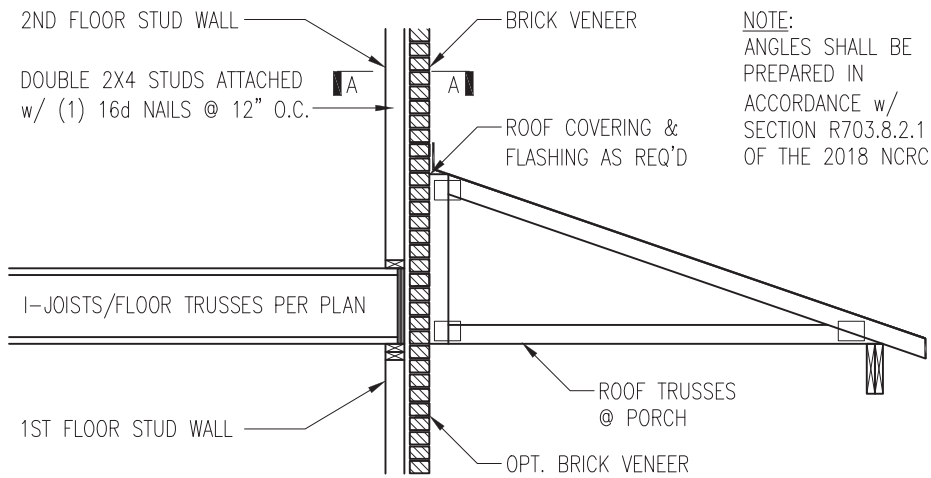
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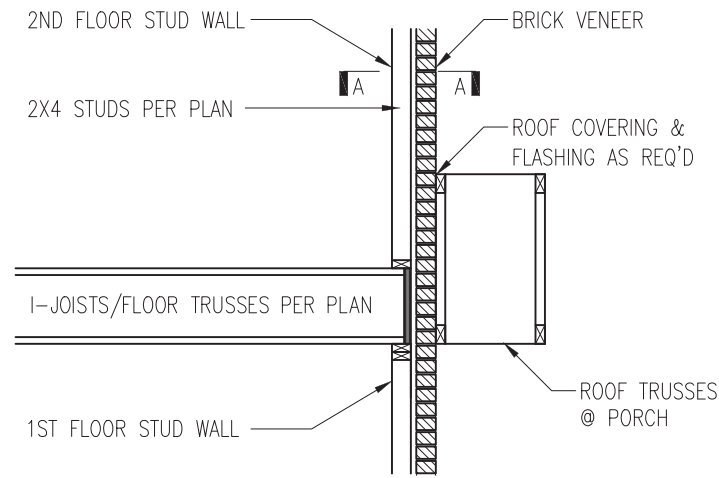
ORIGINAL DRAWING
 NO. DATE PROJECT #
 0 1/7/16 3832

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SHEET
D6s



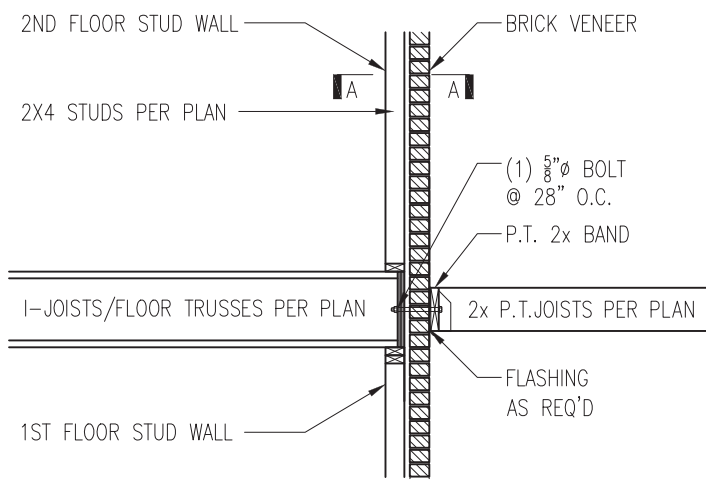
NOTE:
ANGLES SHALL BE PREPARED IN ACCORDANCE w/ SECTION R703.8.2.1 OF THE 2018 NCR



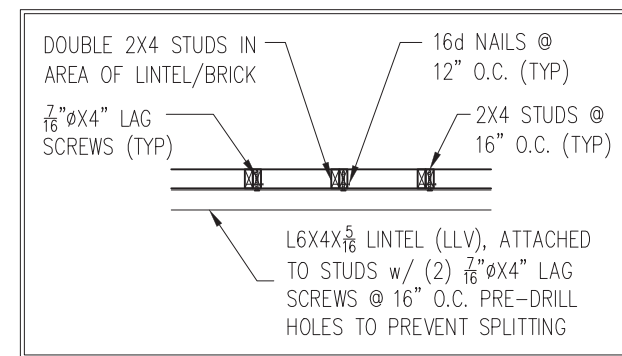
TRUSSES PERPENDICULAR TO STUD WALL

TRUSSES PARALLEL TO STUD WALL w/ CONTINUOUS BRICK VENEER

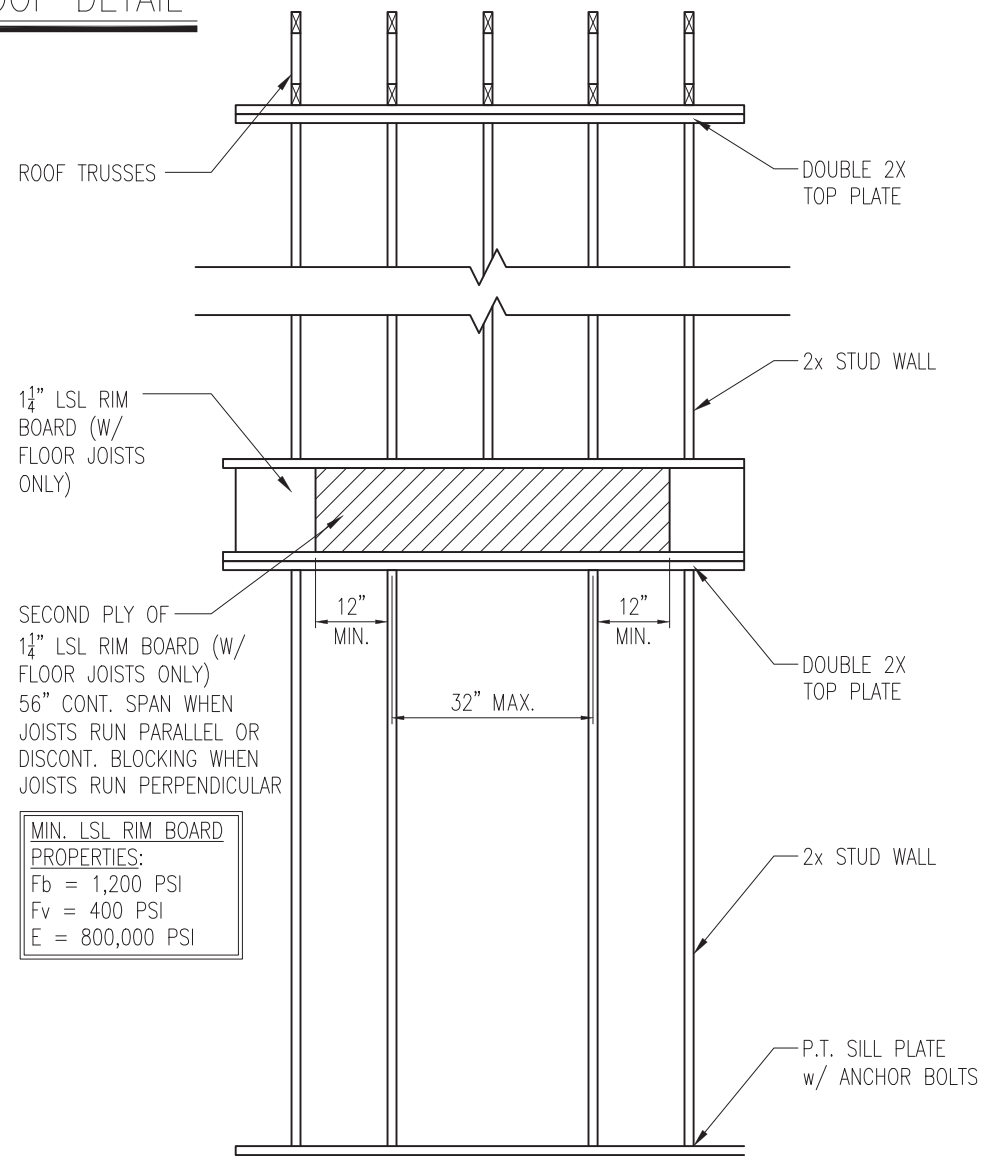
1 BRICK SUPPORT ABOVE STORAGE/PORCH ROOF DETAIL
D5f NTS



3 BALCONY JOIST ATTACHMENT
D5f NTS



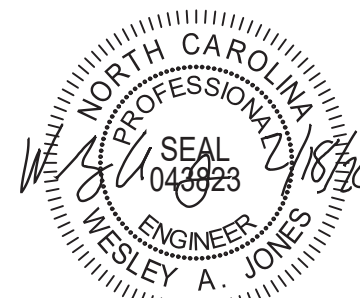
SECTION A-A
NTS



SECOND PLY OF 1 1/4\"/>

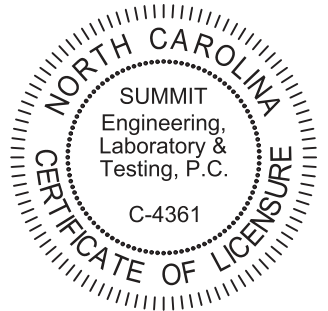
MIN. LSL RIM BOARD
PROPERTIES:
Fb = 1,200 PSI
Fv = 400 PSI
E = 800,000 PSI

4 TYP. RANGE VENT FRAMING
D5f VENTED TO EXTERIOR WALL



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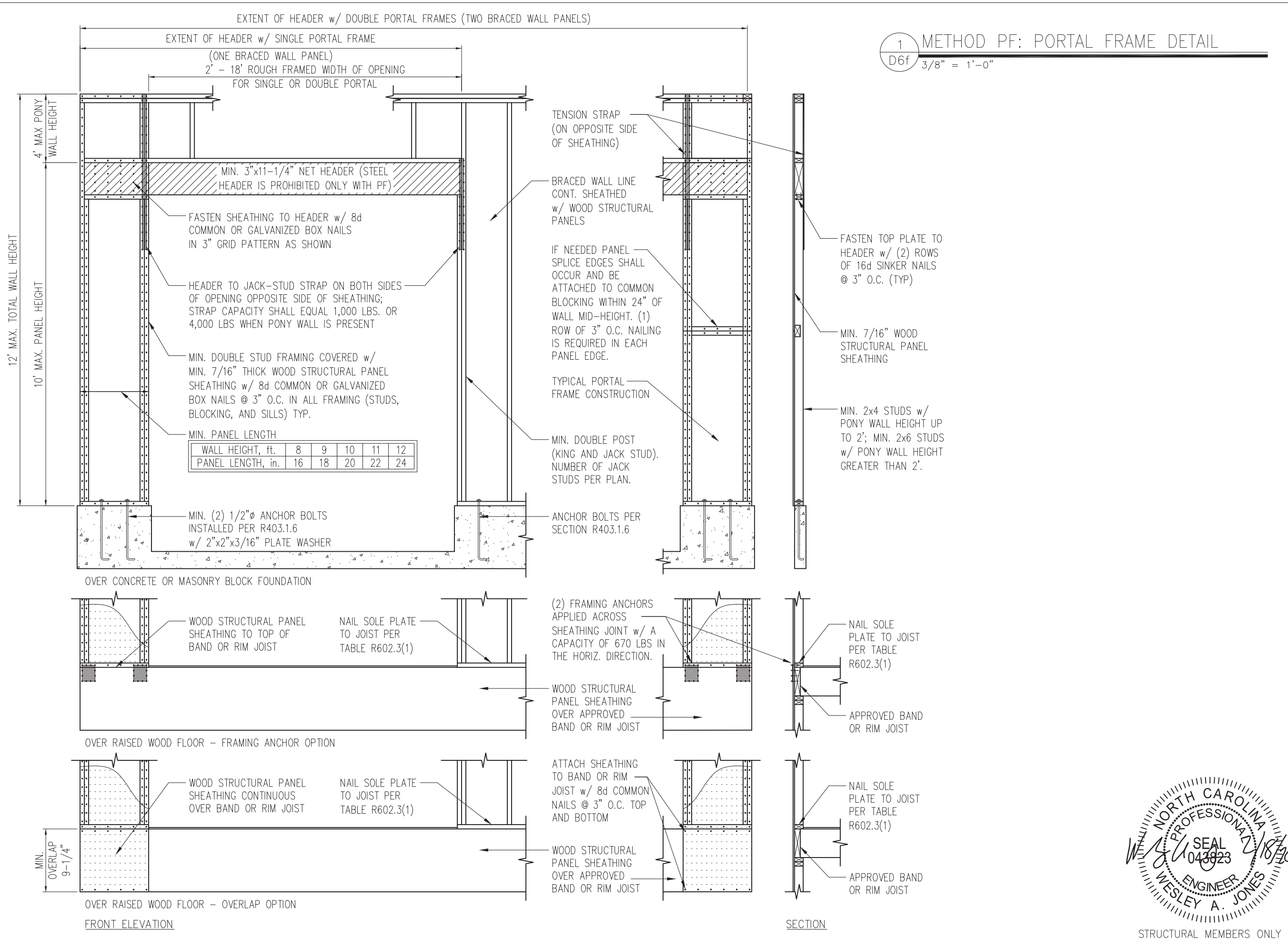
PROJECT
Standard Details
Framing Details
CLIENT
Smith Douglas Homes
110 Village Trail, Suite 215
Woodstock, GA 30188

CURRENT DRAWING
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PROJECT #: 3832
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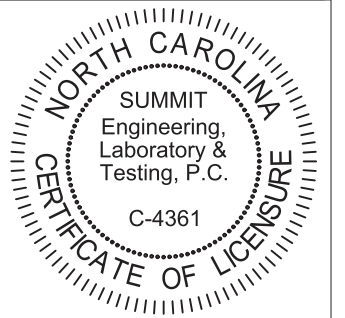
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SHEET
D5f



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PROJECT
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Framing Details - Bracing

CLIENT
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110 Village Trail, Suite 215
Woodstock, GA 30188

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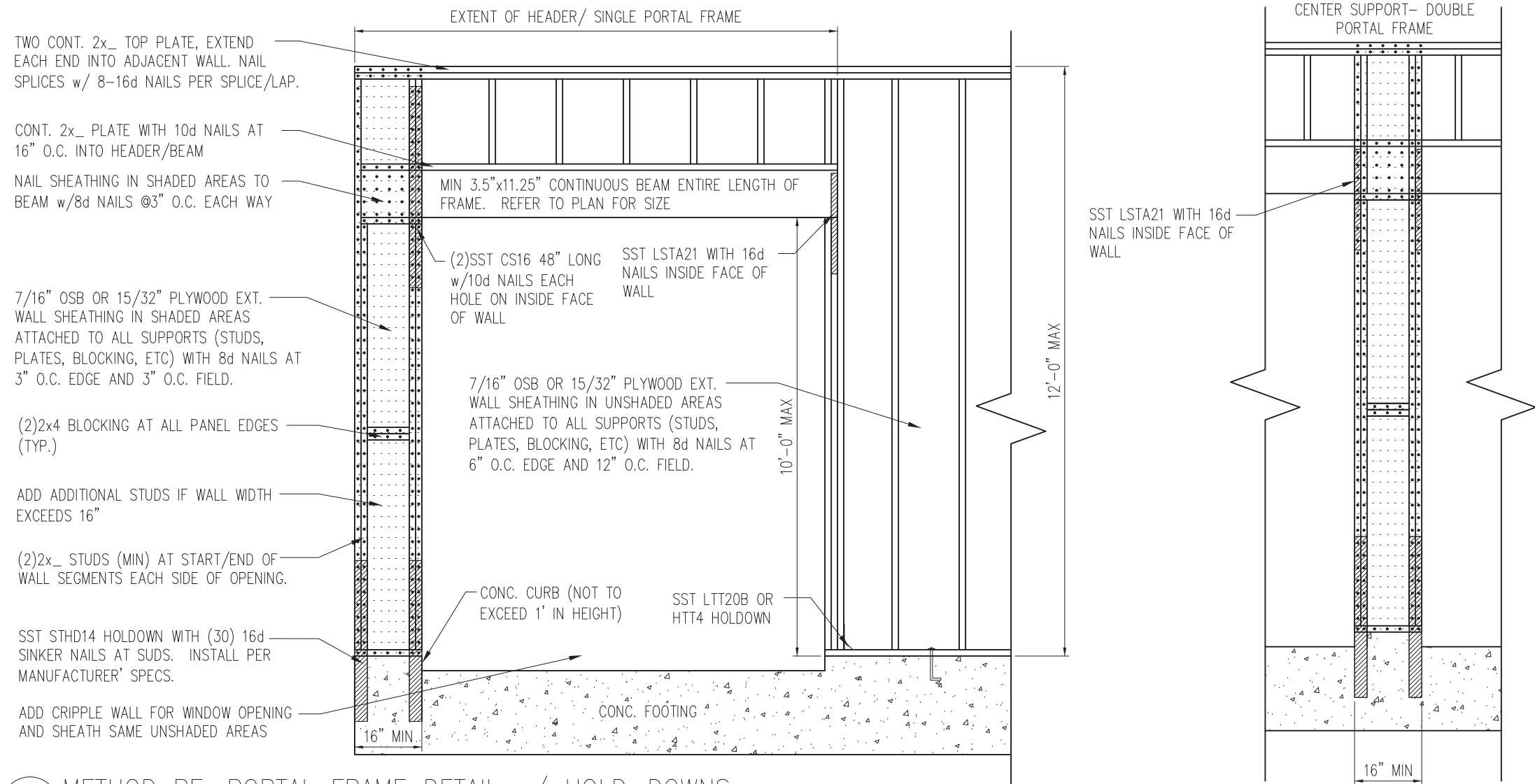
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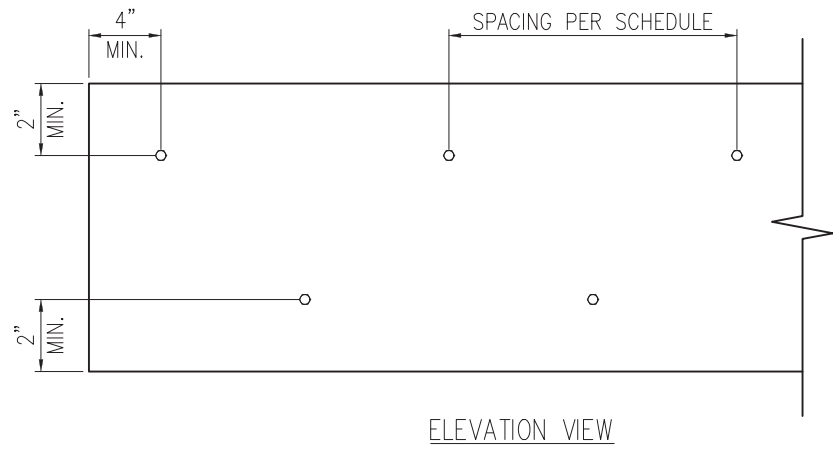


STRUCTURAL MEMBERS ONLY

SHEET
D6f



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



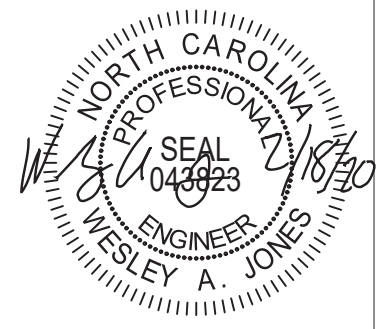
2 MULTI-PLY BEAM CONNECTION DETAIL
 D7f N.T.S

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.		

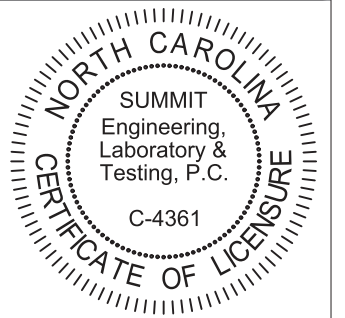
NOTES:

- 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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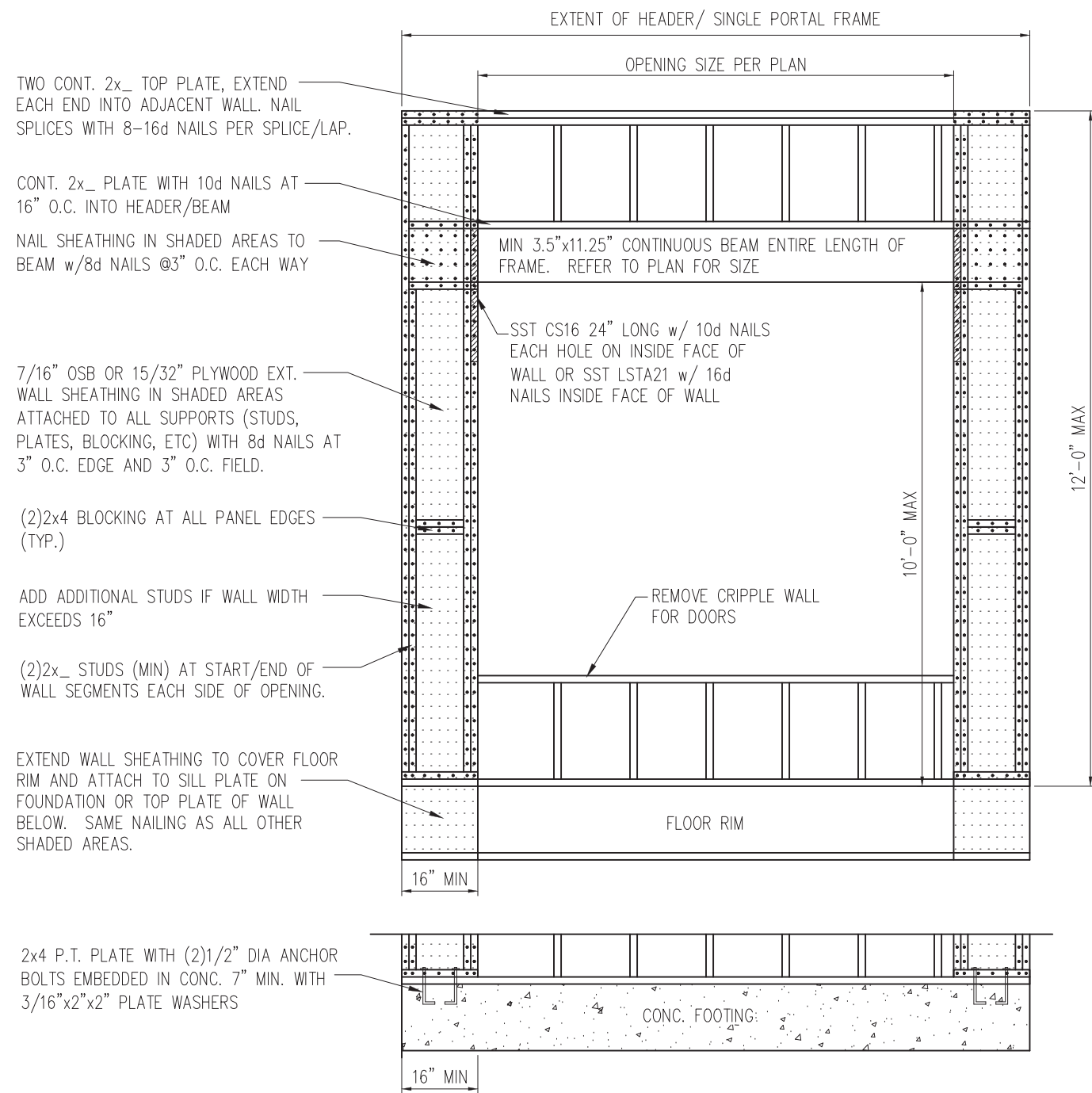


PROJECT
 Standard Details
 Framing Details - Bracing
 CLIENT
 Smith Douglas Homes
 110 Village Trail, Suite 215
 Woodstock, GA 30188

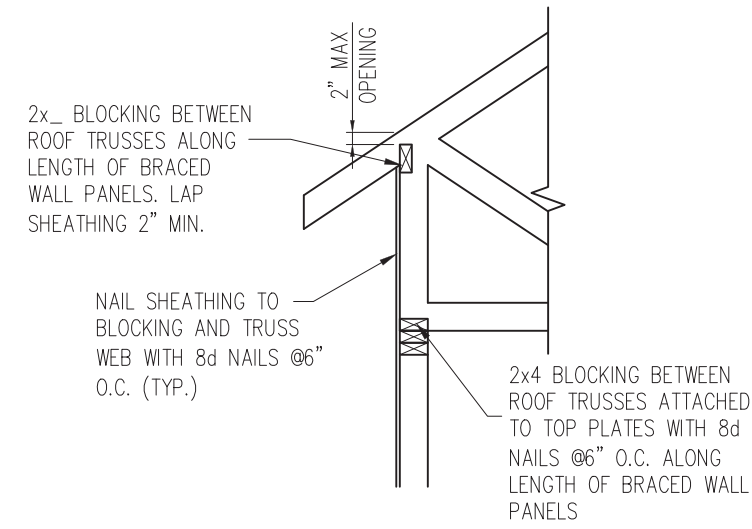
CURRENT DRAWING
 DATE: 2/18/20
 SCALE: NTS
 PROJECT #: 3832
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 ORIGINAL DRAWING
 NO. DATE PROJECT #
 0 1/7/16 3832

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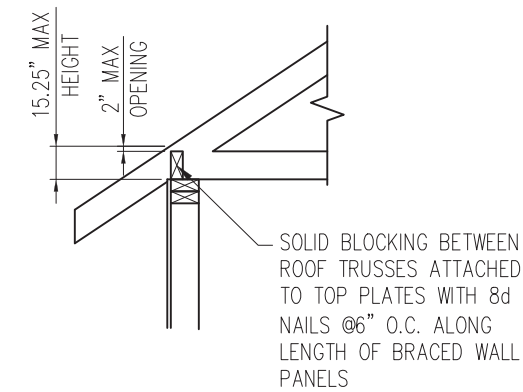
SHEET
D7f



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



HEEL HEIGHT GREATER THAN 15.25"



HEEL HEIGHT LESS THAN 15.25" *

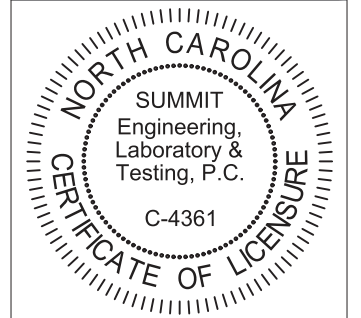
*BLOCKING IS NOT REQUIRED WITH HEEL HEIGHTS LESS THAN 9.25"

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



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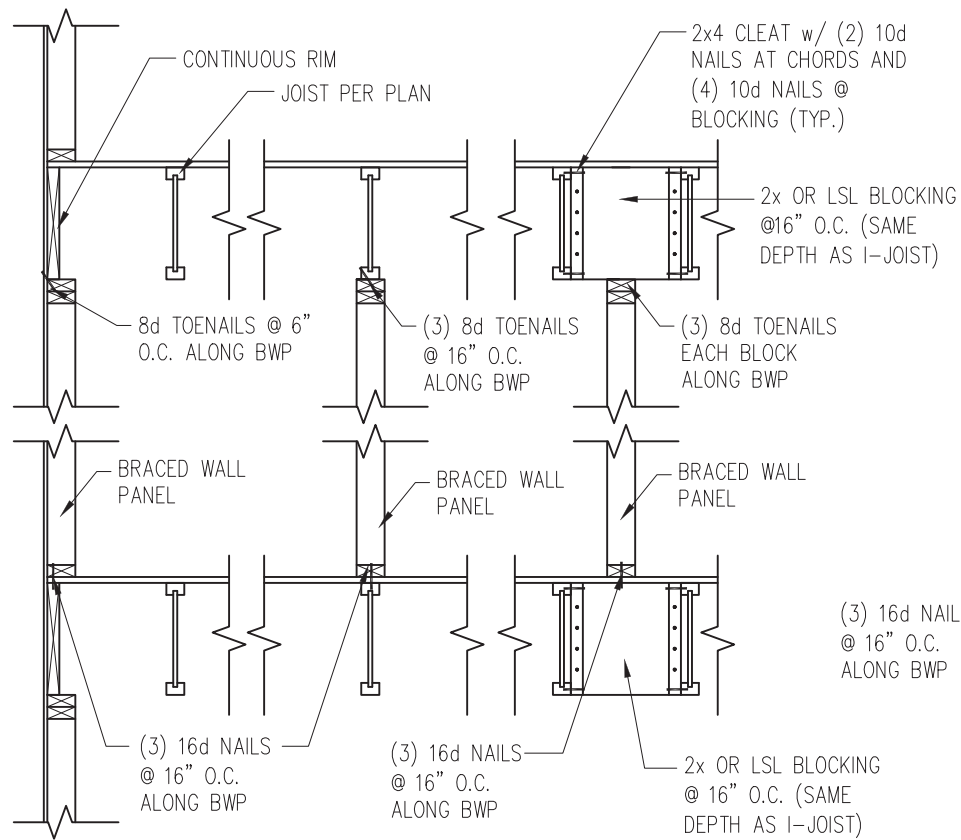
PROJECT
Standard Details - Bracing
Framing Details - Bracing
 CLIENT
Smith Douglas Homes
110 Village Trail, Suite 215
Woodstock, GA 30188

CURRENT DRAWING
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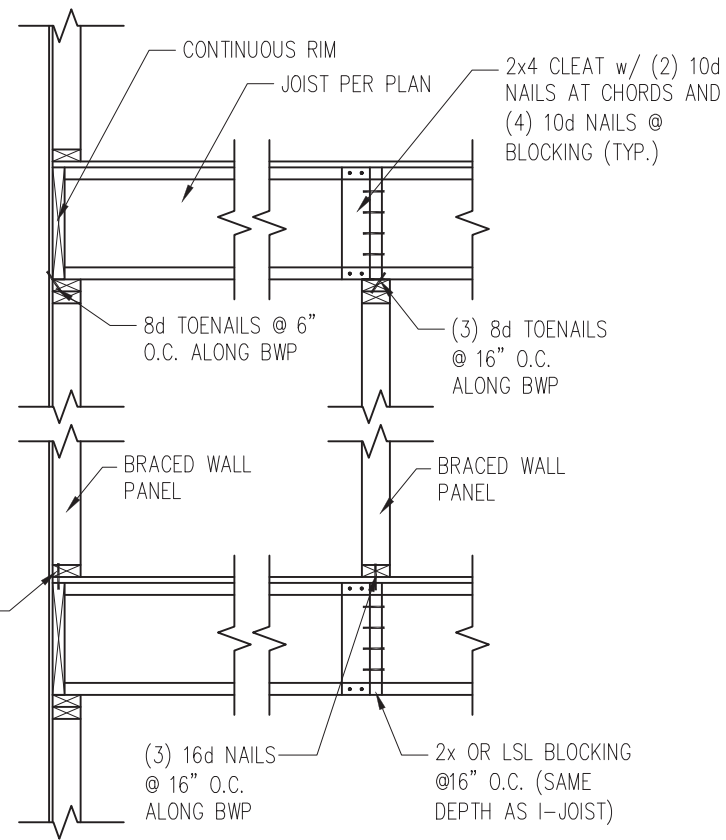
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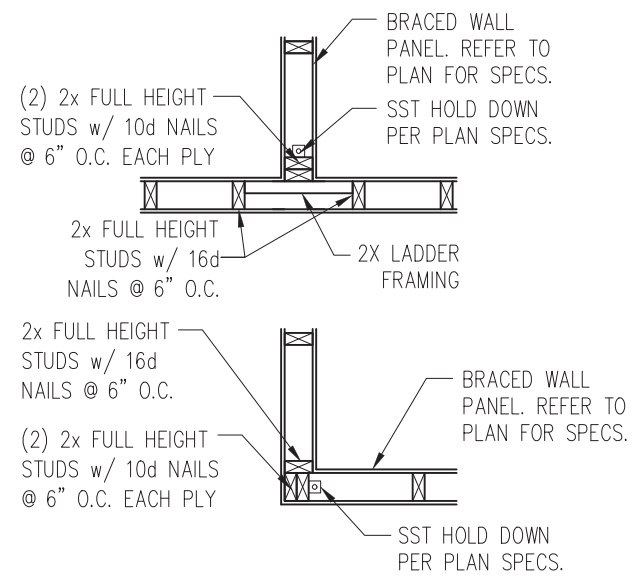
SHEET
D8f



JOISTS PARALLEL TO BRACED WALLS

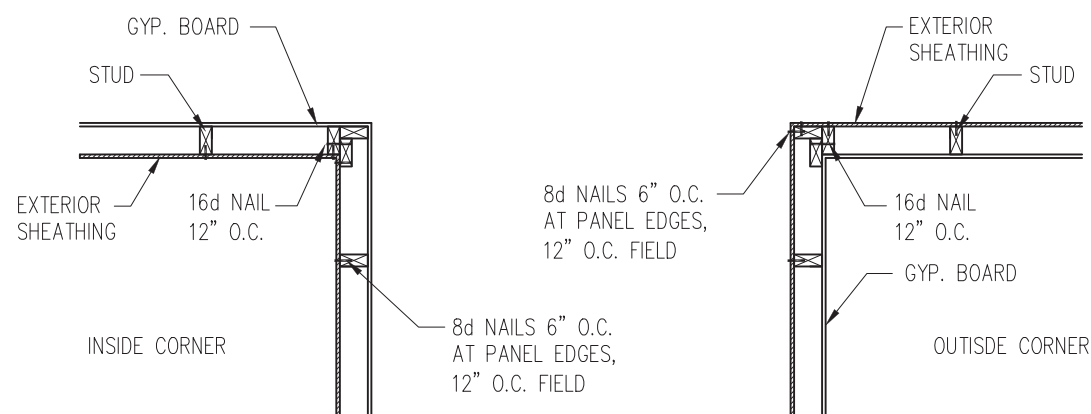


JOISTS PERPENDICULAR TO BRACED WALLS

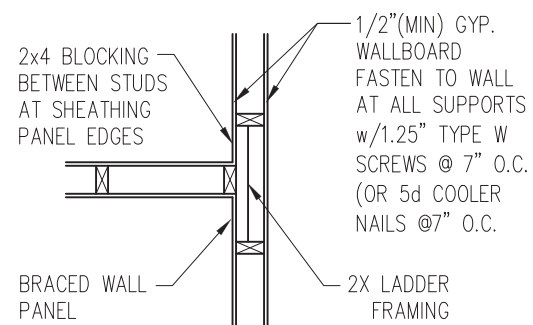


4 TYP. HOLD DOWN DETAIL
D9f 1" = 1'-0"

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



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

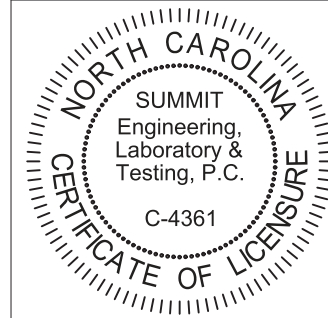


3 INTERIOR 3-STUD WALL INTERSECTION
D9f 1" = 1'-0"



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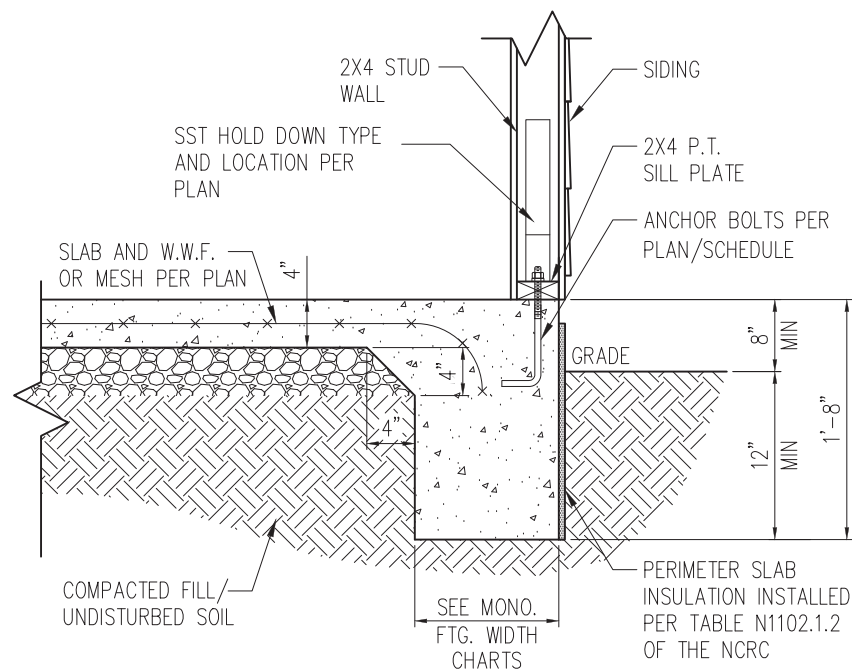
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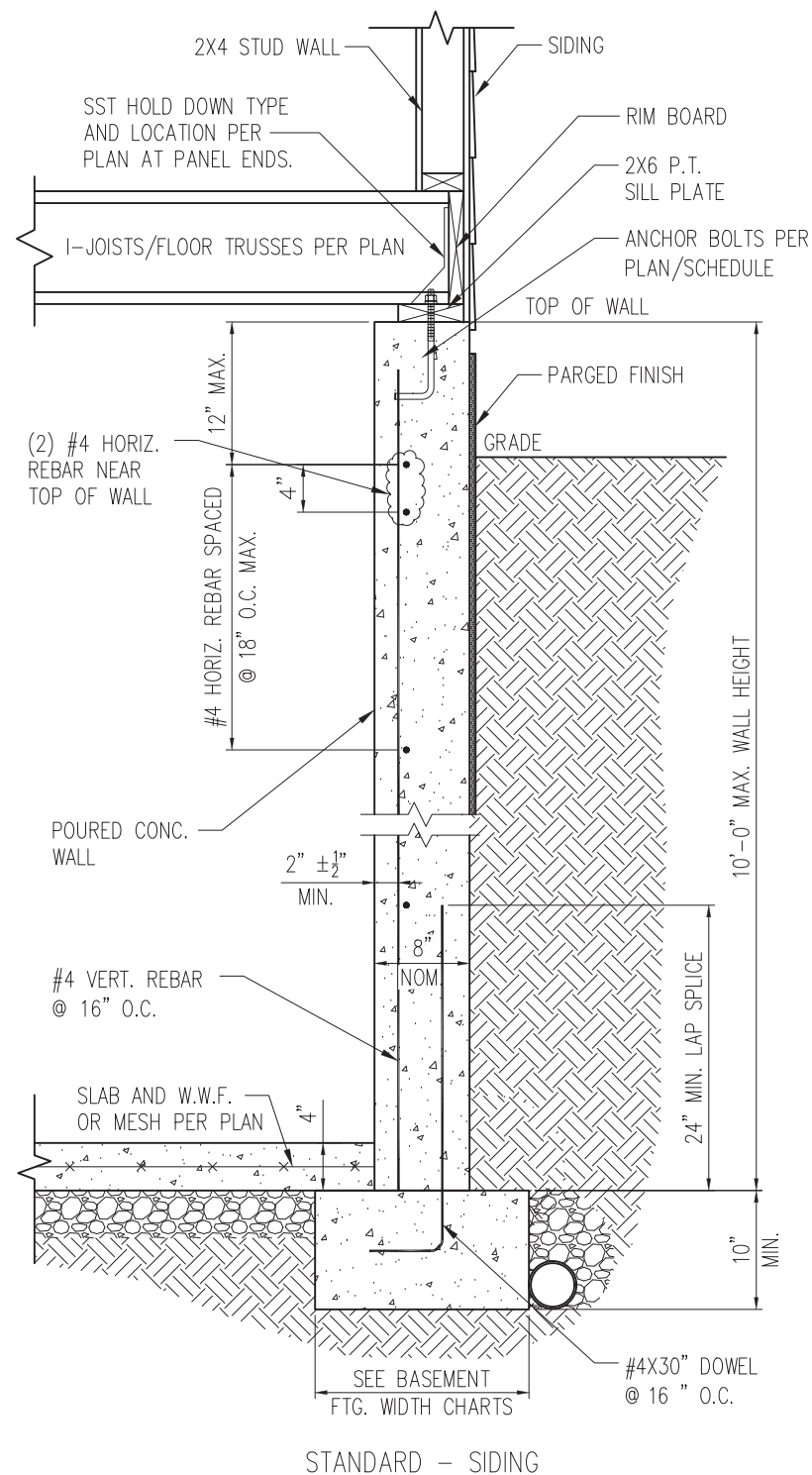
ORIGINAL DRAWING
NO. DATE PROJECT #
0 1/7/16 3832

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SHEET
D9f



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

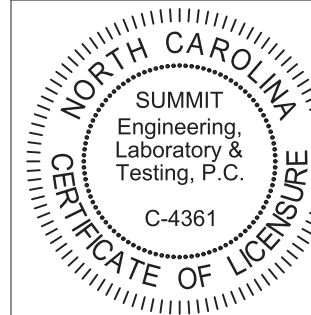


2 BASEMENT FOUNDATION WALL DETAIL W/ HOLD-DOWN
 D10f 3/4" = 1'-0"



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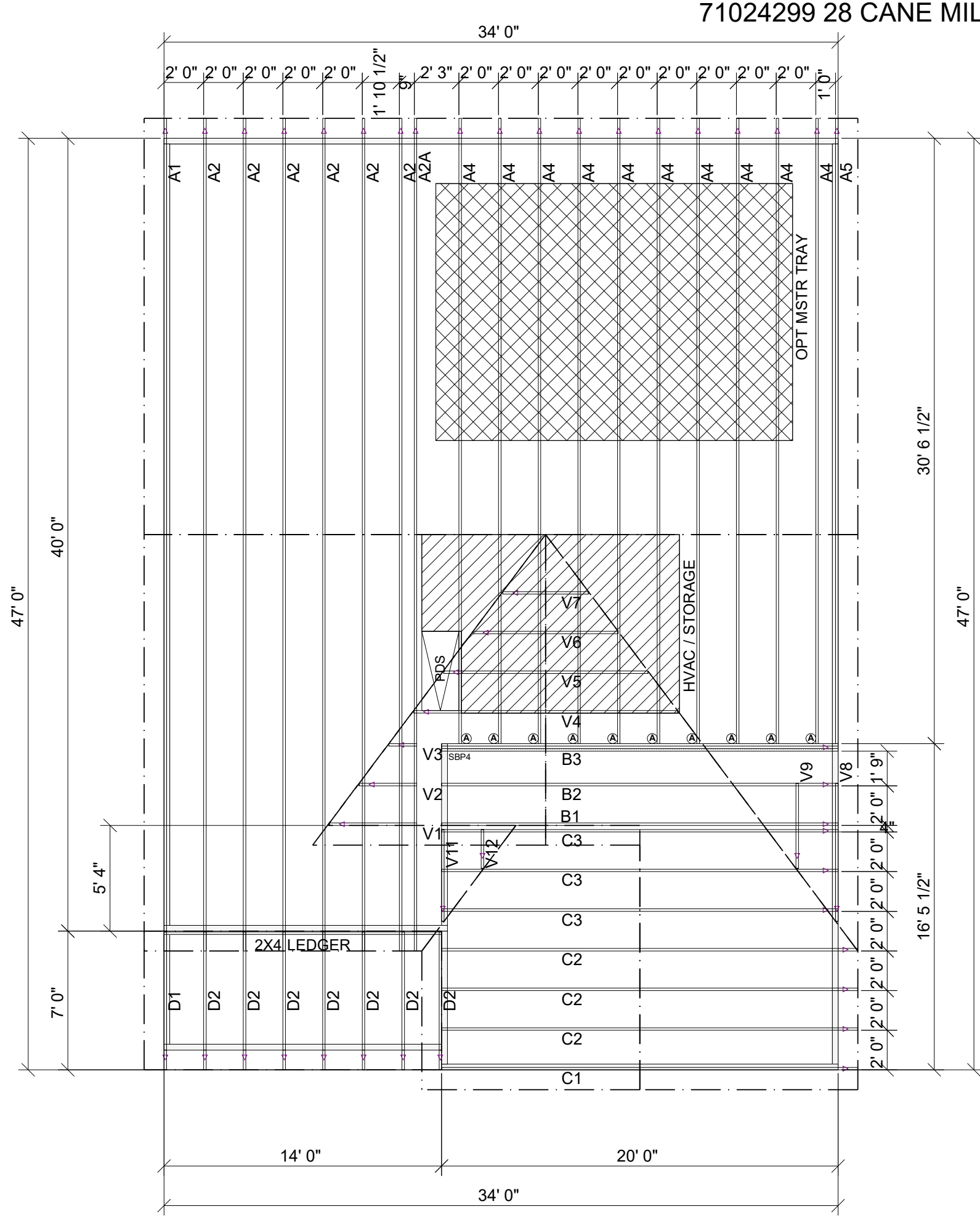
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SHEET

D10f

TRUSS TO WALL CONNECTIONS, IF SHOWN, ARE FOR UPLIFT ONLY AND DO NOT CONSIDER LATERAL LOADS. ALL CONNECTORS ON THIS PROJECT ARE TO BE INSTALLED PER THE CONNECTOR MANUFACTURER'S SPECIFICATIONS. ALL CONNECTORS SHOWN THAT ARE NOT "TRUSS TO TRUSS" ARE SUGGESTIONS ONLY AND ARE TO BE VERIFIED BY THE BUILDING DESIGNER OR ENGINEER OF RECORD FOR SUITABILITY TO THIS PARTICULAR PROJECT. UFP MID-ATLANTIC, LLC. ACCEPTS NO RESPONSIBILITY FOR THE SPECIFIC APPLICATION OR SUITABILITY OF ANY CONNECTOR THAT IS NOT "TRUSS TO TRUSS" AS THEY APPLY TO THIS SPECIFIC STRUCTURE.



71024299 28 CANE MILL

BUFFINGTON ADG

Hatch Legend	
	OPT MSTR TRAY
	HVAC / STORAGE

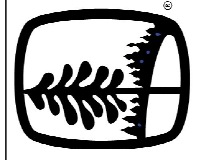
Roof Hanger List			
MARK	TYPE	DESCRIPTION	QTY
(A)	HUS26	FACE MOUNT HANGER	10
2x4	SBP4	SUPPLEMENTAL BEARING ENHANCER	2

ROOF AREA: 2025.84_RIDGE LINE: 65 _ VALLEY LINES: 57.89 _ HIP LINES: 0 _ Δ Indicates Left End of Truss

CUSTOMER: **SMITH DOUGLAS**
 Job Name: **BUFFINGTON ADG**
 Date: 9-29-20
 Scale: NTS
 Revision Date 1:
 Revision Date 2:

Quality Products for Quality Builders

Quote Number: **MASTER**



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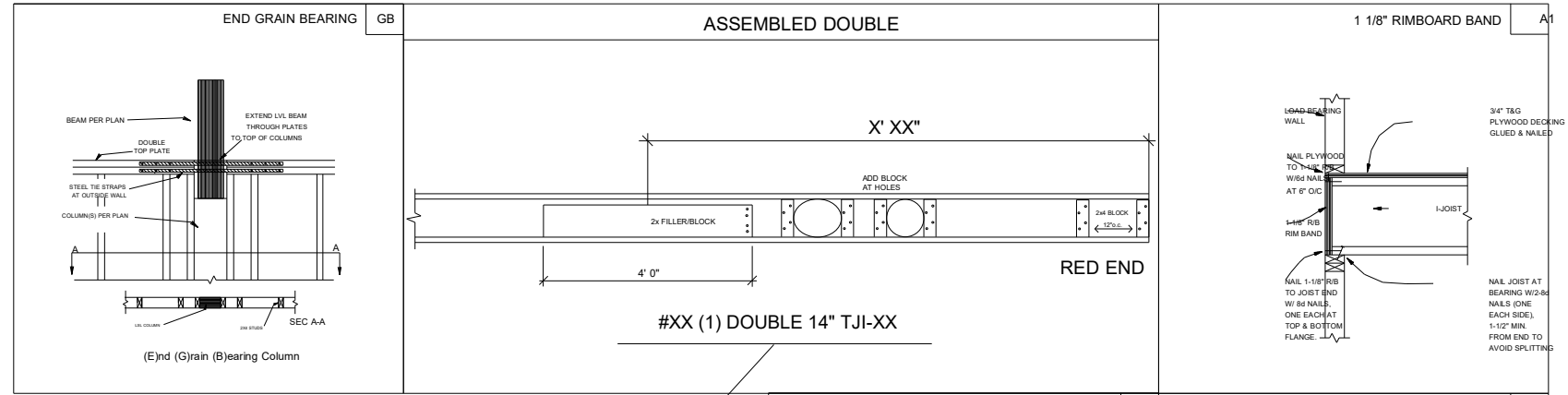
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1. TEMPORARY BRACING TO BE INSTALLED w/T.P.I. STANDARD BCS-B1.
 2. SEE ENGINEERED DRAWING FOR PERMANENT BRACING MINIMUM REQUIREMENTS.
 3. FRAMER TO VERIFY ALL DIMENSIONS, DROP, & RISE LOCATIONS PRIOR TO TRUSS PLACEMENT.
 4. BLDG/FRAMER RESPONSIBLE FOR ADJUSTMENT OF TRUSS SPACING TO MISS PLUMBING DROPS, UNLESS NOTED OTHERWISE.

This layout is not an engineered drawing. This drawing was created to establish truss placement only. It is the responsibility of the builder to provide adequate support for all the elements shown in this drawing.

Products					
Fab Type	Net Qty	Plies	Product	Length	PlotID
MFD	11	1	14" TJI@ 110	34' 0"	J1
MFD	2	2	14" TJI@ 110	20' 0"	J2
MFD	2	1	14" TJI@ 110	14' 0"	J3
MFD	1	1	14" TJI@ 110	7' 0"	J4
MFD	1	1	14" TJI@ 110	6' 0"	J5
MFD	2	1	14" TJI@ 110	5' 0"	J6
MFD	1	1	14" TJI@ 110	4' 0"	J7
MFD	6	1	14" TJI@ 210	34' 0"	J8
MFD	6	1	14" TJI@ 210	20' 0"	J10
MFD	2	1	14" TJI@ 210	20' 0"	J9
MFD	3	1	14" TJI@ 210	17' 0"	J11
MFD	12	1	1 1/8" x 14" TJI@ Rim Board	16' 0"	RIM-1
FF	8	1	14" TJI@ 110	2' 0"	Bk1

Connector Summary			
Product	Manuf	Qty	PlotID
TFL1714	USP	4	H1
TFL2014	USP	3	H2



PLAN LEGEND

*INDICATES BEAM ABOVE TOP PLATE (FLUSH WITH FLOOR SYSTEM)

1B-, 2B-, H-, 1H-, GDH-

INDICATES BEAM BELOW TOP PLATE (DROPPED BELOW FLOOR SYSTEM)

*BEAMS MAY PROTRUDE ABOVE OR BELOW DECKING OR TOP PLATE RESPECTIVELY. REFER TO DETAIL IF BEAM IS A DIFFERENT DEPTH THAN FLOOR SYSTEM

SINGLE PLY BEAM (ADD LINE FOR EACH ADDITIONAL PLY)

SHIFT JOIST TO MISS PLUMBING, ALIGN W/WALL OR SUPPORT FURNITURE

A JOIST ADDED TO THE LAYOUT IN ADDITION TO THE ON CENTER JOISTS

TWO JOISTS SIDE BY SIDE (ONLY ASSEMBLED IF NOTED)

SHIFT

EXTRA

DOUBLE

GENERAL NOTES:

- 1.) TOP CHORD OF JOISTS ARE PAINTED RED AT NUMBERED END. PLACE PAINTED END AS NOTED ON PLAN.
- 2.) FOLLOW SPECIAL SPACING AND LOCATION DIMENSIONS FOR EXTRAS OR SHIFTED JOISTS AS SHOWN ON PLAN.
- 3.) ALL INTERIOR WALL PLATES MUST BE LEVEL WITH OUTSIDE WALL TOP PLATES.
- 4.) DO NOT STACK CONSTRUCTION LOADS ON UN-BRACED JOISTS.
- 5.) PROVIDE SOLID SUPPORT BELOW ALL BEAM AND HEADER BEARING POINTS IN WALL AND JOIST SPACES CONTINUOUS DOWN TO THE FOUNDATION.
- 6.) LOCATE CRIPPLE STUDS IN JOIST SPACE DIRECTLY BELOW HEADER JACKS AT ALL FIRST FLOOR EXTERIOR DOOR LOCATIONS.
- 7.) INSTALL NAILS IN ALL HOLES PROVIDED IN JOIST HANGERS EXCEPT AT BOTTOM CHORD SEAT. PLACE A DAB OF GLUE IN THE HANGER SEAT BEFORE SETTING JOISTS.
- 8.) IMPORTANT NOTE! NO STRUCTURAL ANALYSIS OF CONVENTIONAL HEADERS HAS BEEN CONDUCTED IF NOT NOTED. THEY ARE CONSIDERED TO BE ADEQUATE TO SUPPORT THE APPLIED LOADS.

FIELD TRIM NON RED END TO KEEP HOLES ALIGNED
CONTAR EL LADO DE SIN MARCA ROJA PARA HOYOS ALINEADOS

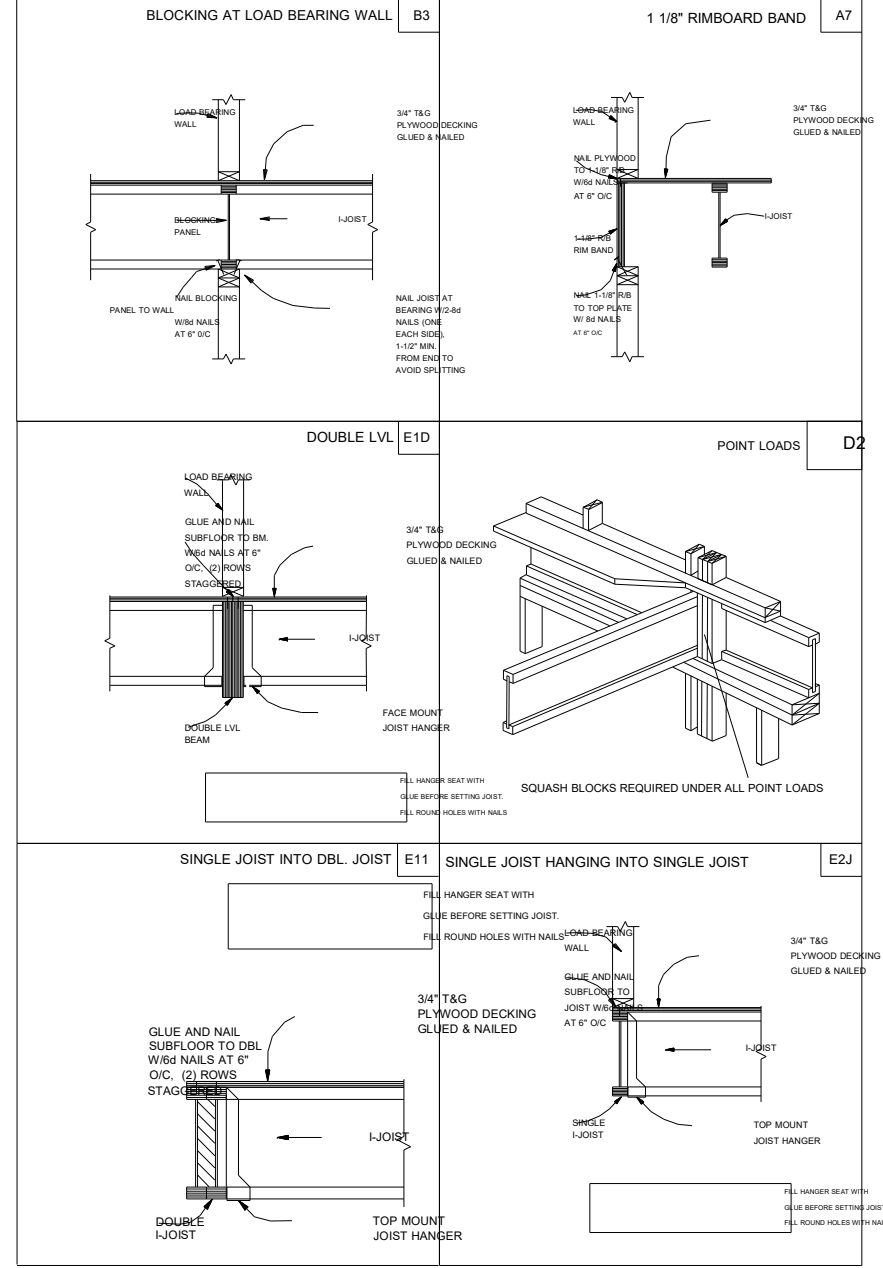
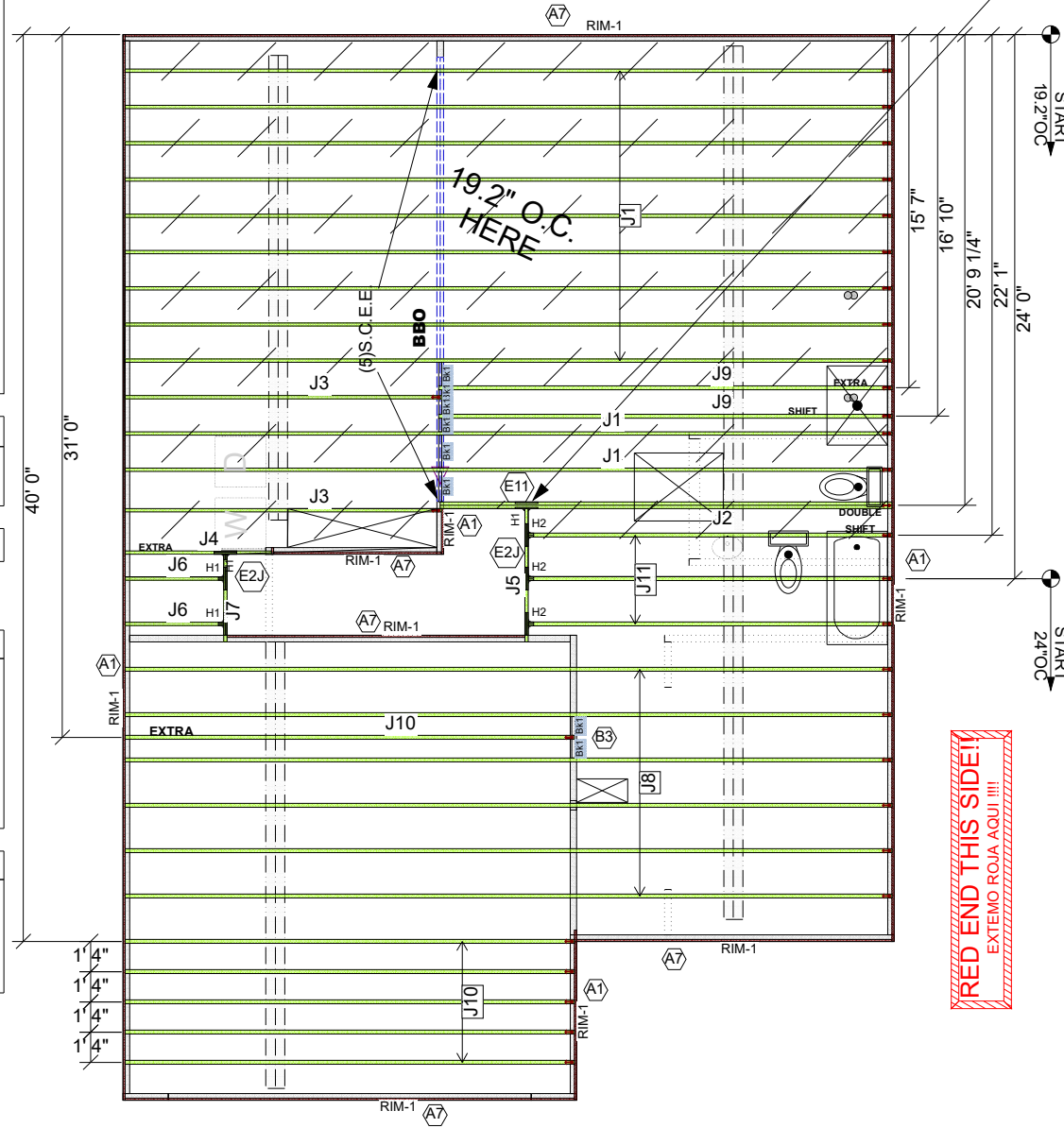
FIELD LOCATE PLUMBING DROPS/CAN LIGHTS, ETC... PRIOR TO JOIST SECUREMENT TO AVOID INTERFERENCE.

LAYOUT FOR 19.2" O/C

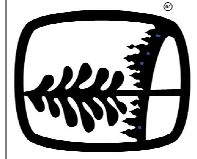
9= 172-13/16"	1= 19-3/16"
10= 192"	2= 38-3/8"
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FIELD VERIFY DIMENSIONS TO JOISTS LOCATED UNDER WALLS!!

2ND FLOOR LAYOUT



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 A UNIVERSAL FOREST PRODUCTS COMPANY
 BURLINGTON, NC PHONE (800) 476-3356
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 JEFFERSON, GA PHONE (800) 648-4038
 PEARISBURG, VA PHONE (800) 397-9571

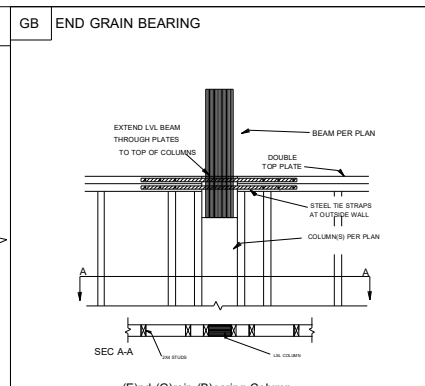
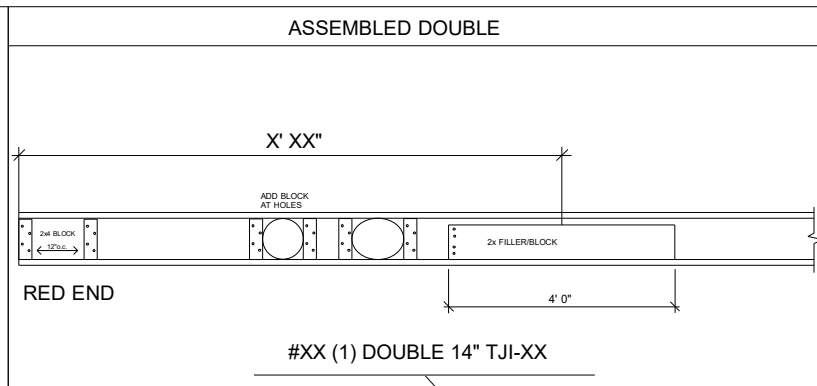
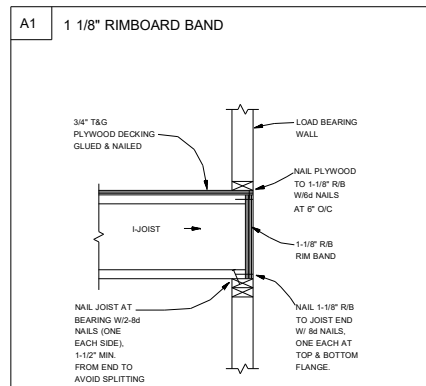


LOADING	DEFLECTION
ROOF LIVE 20 PSF	L/240
ROOF DEAD 20 PSF	L/180
FLOOR LIVE 40 PSF	L/480
FLOOR DEAD 10 PSF	L/240

Special Loading:

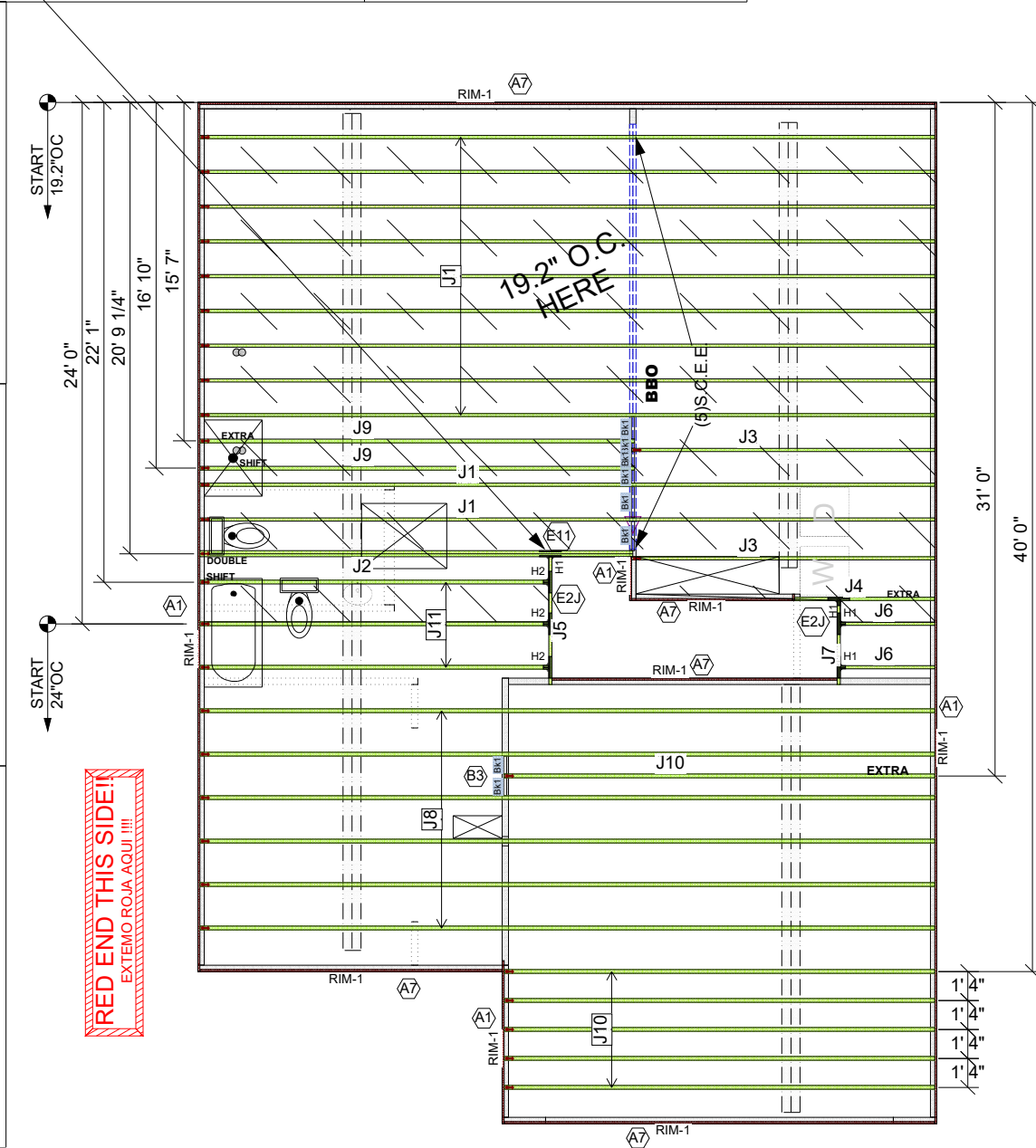
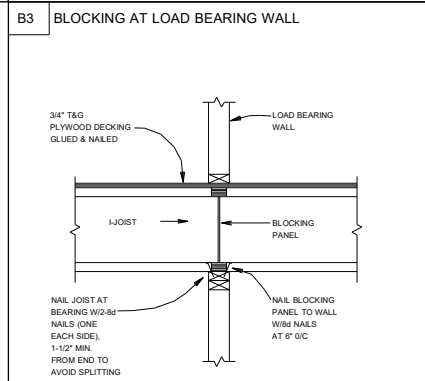
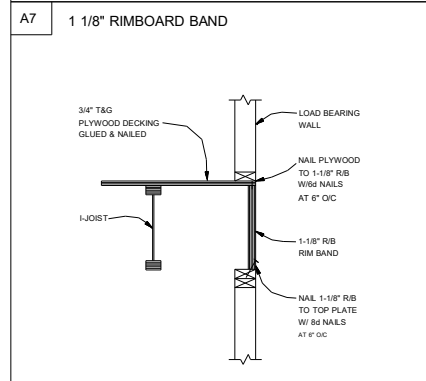
Customer: **SMITH DOUGLAS HOMES**
 Job Name: **BUFFINGTON**
 Date: 4/22/2021
 Scale: NTS
 Revision Date: _____
 Revision Date: _____

Checked By: EOR
 Drawing Number: **21040577F2**
MSTR



Products					
PlotID	Length	Product	Plies	Net Qty	Fab Type
J1	34' 0"	14" TJI@ 110	1	11	MFD
J2	20' 0"	14" TJI@ 110	2	2	MFD
J3	14' 0"	14" TJI@ 110	1	2	MFD
J4	7' 0"	14" TJI@ 110	1	1	MFD
J5	6' 0"	14" TJI@ 110	1	1	MFD
J6	5' 0"	14" TJI@ 110	1	2	MFD
J7	4' 0"	14" TJI@ 110	1	1	MFD
J8	34' 0"	14" TJI@ 210	1	6	MFD
J9	20' 0"	14" TJI@ 210	1	6	MFD
J10	20' 0"	14" TJI@ 210	1	2	MFD
J11	17' 0"	14" TJI@ 210	1	3	MFD
RIM-1	16' 0"	1 1/8" x 14" TJI® Rim Board	1	12	MFD
Bk1	2' 0"	14" TJI@ 110	1	8	FF

Connector Summary			
PlotID	Qty	Manuf	Product
H1	4	USP	TFL1714
H2	3	USP	TFL2014



- GENERAL NOTES:**
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PLAN LEGEND

1B-, 2B- INDICATES BEAM ABOVE TOP PLATE (FLUSH WITH FLOOR SYSTEM)

H-, 1H-, GDH- INDICATES BEAM BELOW TOP PLATE (DROPPED BELOW FLOOR SYSTEM)

*BEAMS MAY PROTRUDE ABOVE OR BELOW DECKING OR TOP PLATE RESPECTIVELY. REFER TO DETAIL IF BEAM IS A DIFFERENT DEPTH THAN FLOOR SYSTEM

SHIFT SHIFT JOIST TO MISS PLUMBING, ALIGN W/WALL OR SUPPORT FURNITURE

EXTRA A JOIST ADDED TO THE LAYOUT IN ADDITION TO THE ON CENTER JOISTS

DOUBLE TWO JOISTS SIDE BY SIDE (ONLY ASSEMBLED IF NOTED)

FRAMER NOTE

--- DENOTES DUCT HOLE RUNS

ALL DIMENSIONS TO CENTERLINE UNLESS OTHERWISE NOTED

• Avoid Plumbing Drops

FRAMER NOTE

1. GLUE AND NAIL PLYWOOD SUBFLOOR TO BEAMS AND GIRDERS AT 6" O/C WHERE NO WALL IS ABOVE.
2. FILL HANGER SEAT WITH GLUE BEFORE SETTING JOIST IN HANGER. FILL ROUND HOLES WITH NAILS.

CRITICAL !!

INSTALL 2X4 SQUASH BLOCKS IN FLOOR TRUSS SPACE BELOW ALL EXTERIOR DOOR HEADER JACKS. CUT 1/16" TALLER THAN TRUSS.

FIELD TRIM NON RED END TO KEEP HOLES ALIGNED
CONTAR EL LADO DE SIN MARCA
ROJA PARA HOYOS ALINEADOS

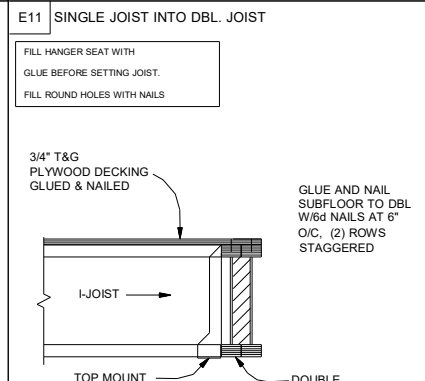
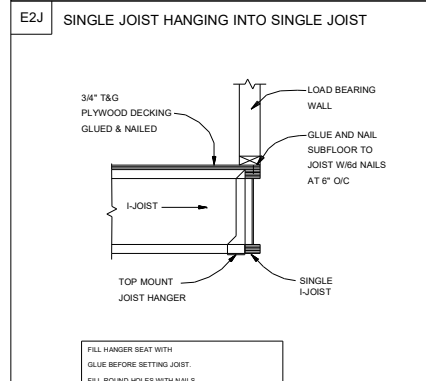
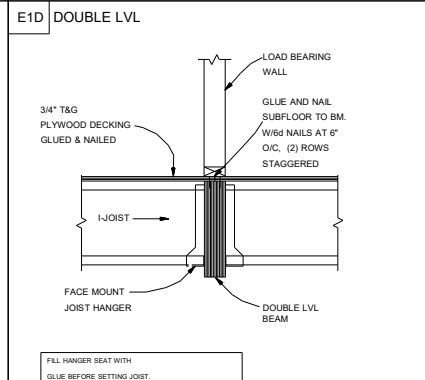
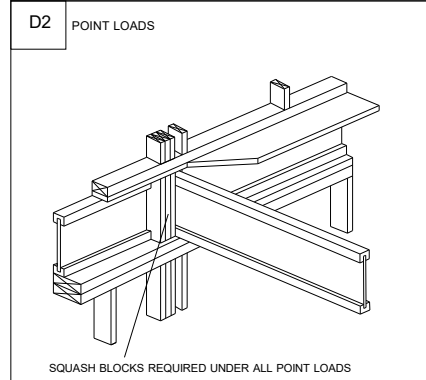
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LAYOUT FOR 19.2" O/C

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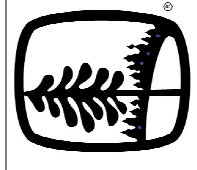
2ND FLOOR LAYOUT



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This layout is not an engineered drawing. This drawing was created to establish joist placement only. It is the responsibility of the builder to provide adequate support for all the elements shown in this drawing.

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LOADING	DEFLECTION
ROOF LIVE 20 PSF	L/240
ROOF DEAD 20 PSF	L/180
FLOOR LIVE 40 PSF	L/480
FLOOR DEAD 10 PSF	L/240

Special Loading:

Customer: SMITH DOUGLAS HOMES
 Job Name: BUFFINGTON
 Drawn By: CP
 Date: 4/22/2021
 Scale: NTS
 Revision Date: _____
 Revision Date: _____