



AVERY

CANE MILL ESTATES
LOT 1

PLAN ID: 042720



110 VILLAGE TRAIL SUITE 215
WOODSTOCK, GA. 30188

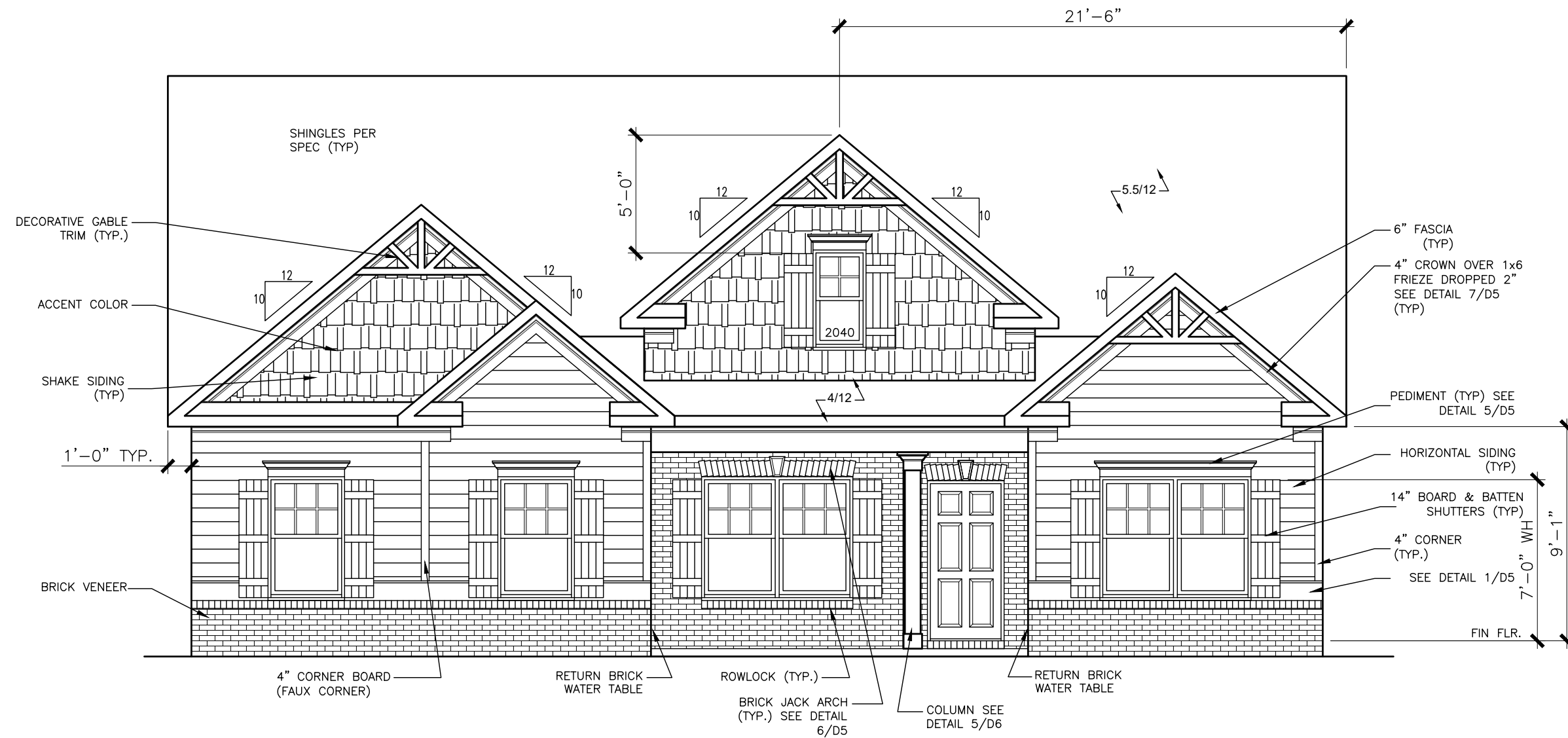
| DRAWING INDEX | |
|---------------|-----------------------------|
| A0.0 | COVER SHEET |
| A1.1 | FRONT ELEVATIONS |
| A2.1 | SIDE & REAR ELEVATIONS |
| A3.1 | SLAB FOUNDATIONS |
| A5.1 | FIRST FLOOR PLANS & DETAILS |
| A6.1 | ROOF PLANS |
| A7.2 | ELECTRICAL PLANS |
| A8.1 | TRIM LOCATION LAYOUTS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

| AREA TABULATION | |
|-----------------------|------|
| FIRST FLOOR | 2404 |
| TOTAL | 2404 |
| GARAGE | 400 |
| FRONT PORCH (COVERED) | 67 |
| REAR PATIO (COVERED) | 120 |

| PLAN REVISIONS | | | |
|----------------|----|---|-------------------------|
| DATE | BY | REVISION | PAGE # |
| 9/11/2018 | AW | PCR #2587 Included walls and dimensions for future basement bathroom | A4.1 |
| 9/11/2018 | AW | PCR #2575 Updated Obath shower options to show plumbing in wall adjacent to bedroom | A3.1.1, A5.1.1 |
| 10/11/2018 | AW | Added finished basement sheets | A4.2, A7.1.1 |
| 1/28/2019 | AW | PCR# 2806 Changed pantry door from 3068 DH to 2068 SH | A5.1 |
| 5/17/2019 | AW | Revised elevation I and added elevations M&N | A1.9, A1.13-A1.14.1 |
| 7/1/2019 | MM | Moved refrigerator in towards kitchen and replaced nook with a chase. | A3.1, A5.1 |
| 9/10/2019 | AW | PCR #3209 added clg. mount light to hall by bathroom in finished basement | A7.1.1 |
| 9/10/2019 | AW | PCR #3214 Removed tempered note from 3050 window in Family Rm. next to rear door | A5.1 |
| 11/4/2019 | AW | Added grade beam between B-2 & Foyer as part of truss standardization project | A3.1 |
| 1/10/2020 | AW | Removed optional Study ILO Dining | A5.1.1, A7.2.1 |
| 2/11/2020 | AW | PCR #3596 Relocated WP outlet on back patio so when its a deck the post won't interfere with outlet | A7.2 |
| 4/27/2020 | AW | Re-centered A roof massing dormers | A1.1, A1.4, A1.13, A6.1 |

| 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 1



FRONT ELEVATION "K"

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

ALL NON-MASONRY RETURNS TO
BE HORIZONTAL SIDING

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

| BY | # | REVISION | DATE |
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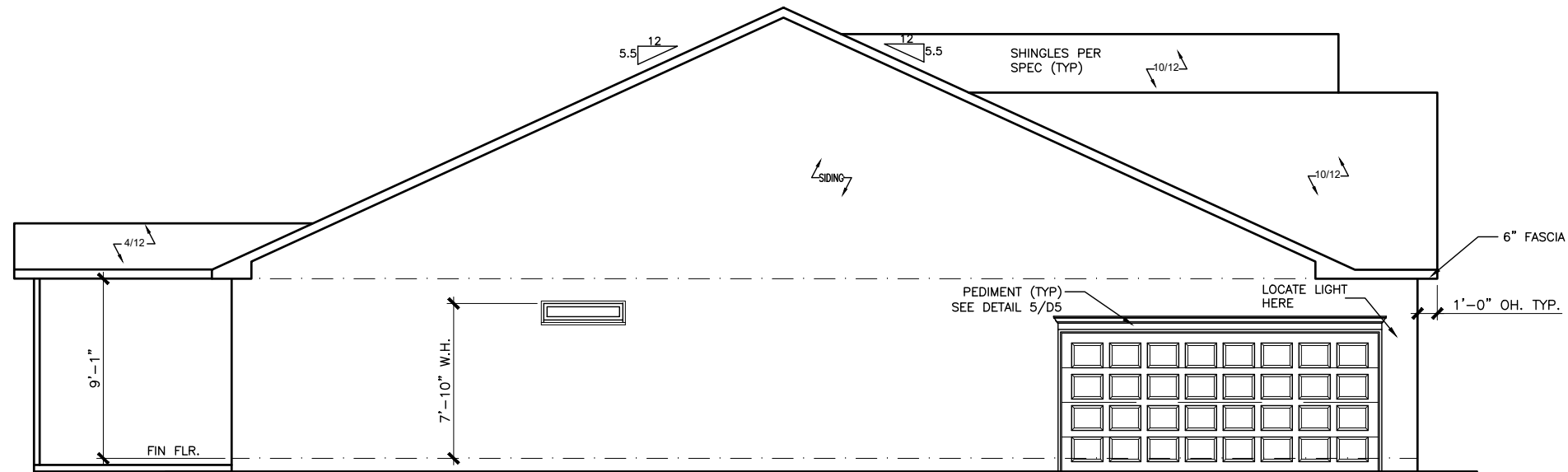
ELEVATIONS
FRONT ELEVATION
AVERY

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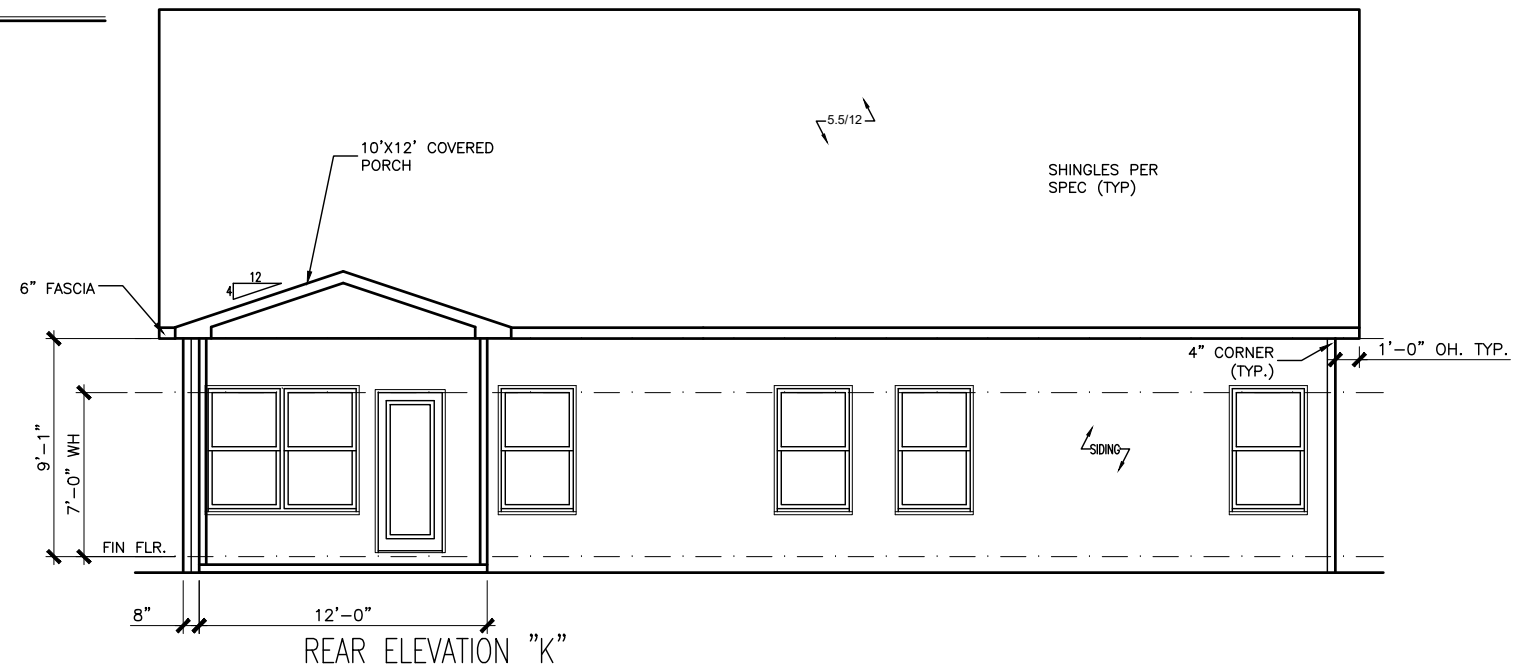
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| FACADE OPT: B | |
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CANE MILL ESTATES LOT 1



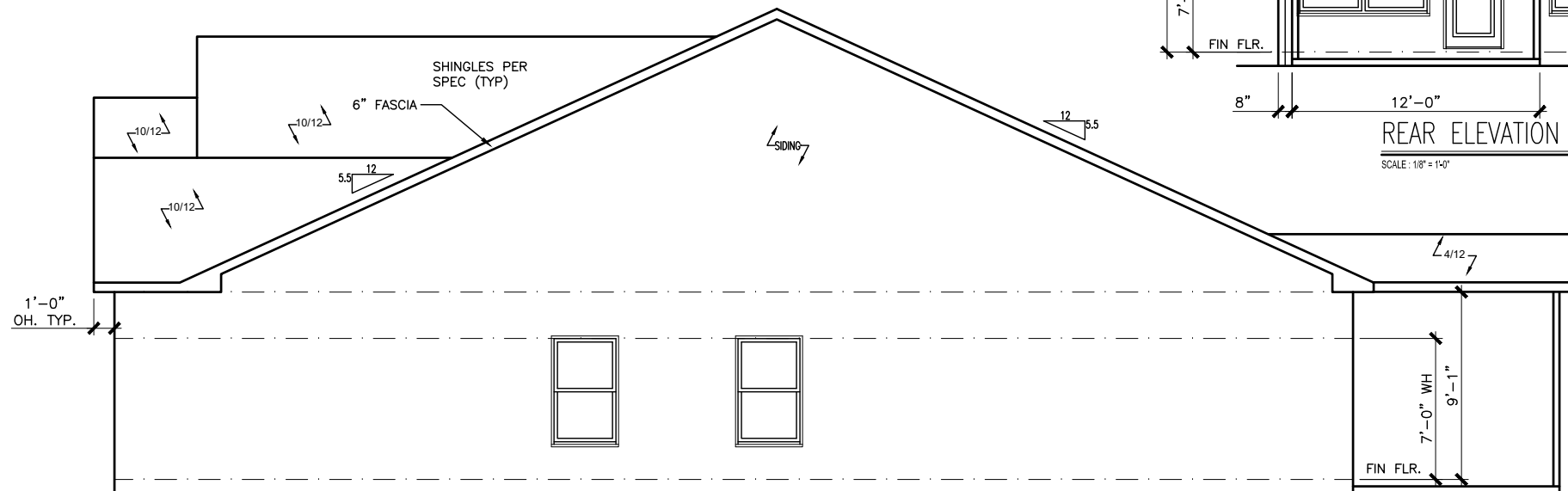
LEFT ELEVATION "K"

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



REAR ELEVATION "K"

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



RIGHT ELEVATION "K"

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

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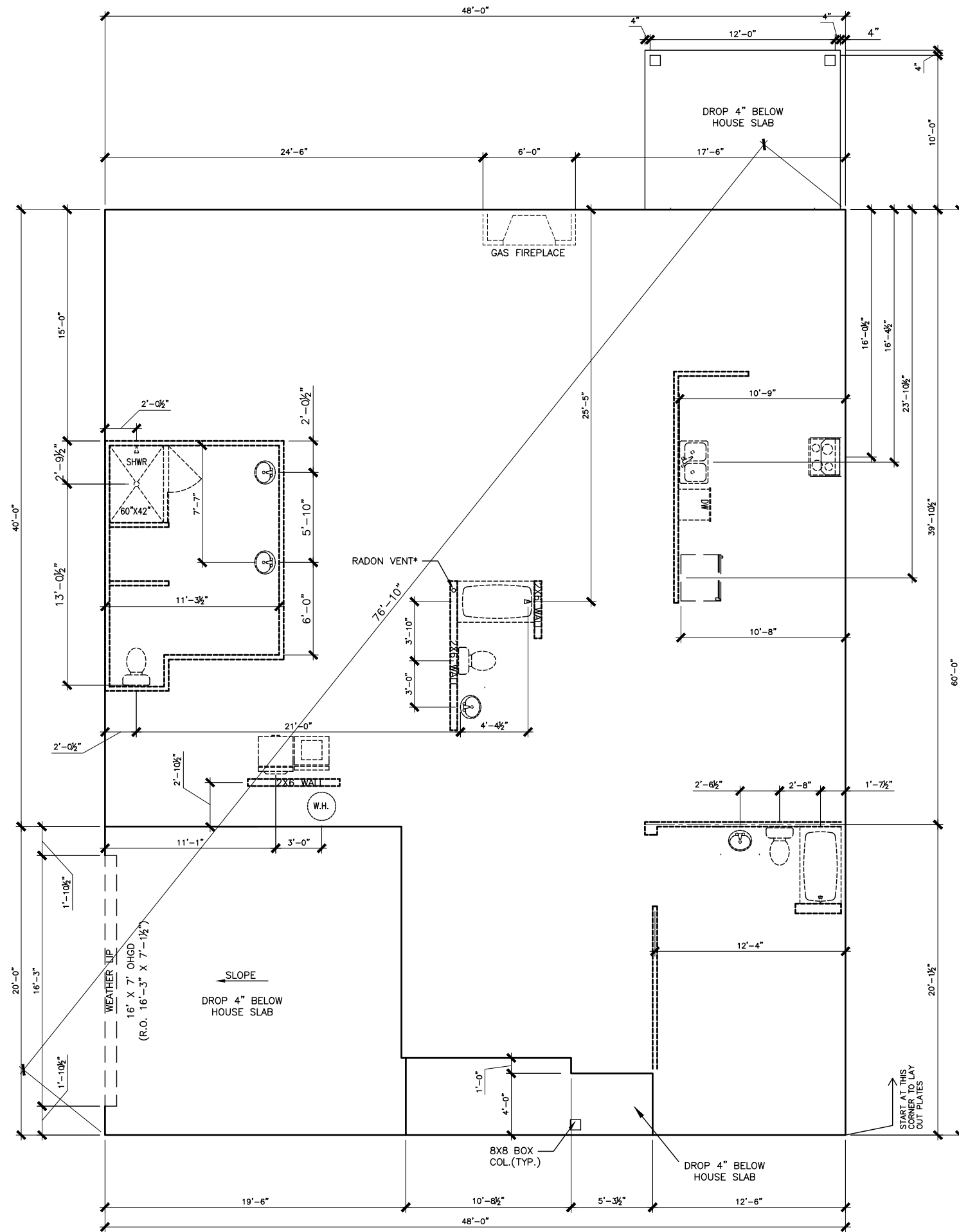


ELEVATIONS
SIDES AND REAR
AVERY

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| FND: ALL | ELEV: K |
| PAGE NO: A2.1 | |



SLAB PLAN

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

CANE MILL ESTATES LOT 1

*RADON VENT PROVIDED
PER LOCAL CODE

*RADON VENT PROVIDED
PER LOCAL CODE

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

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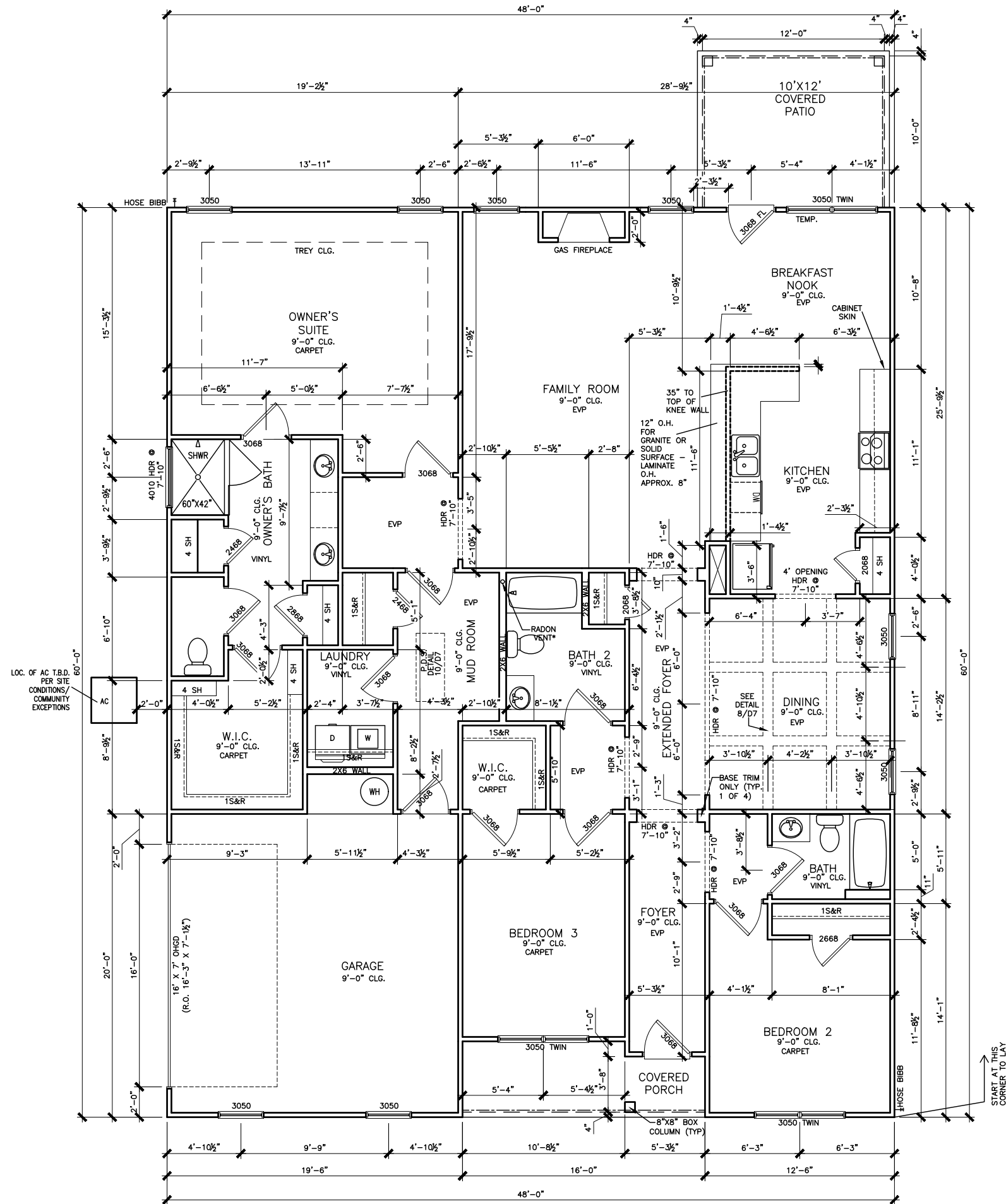
FOUNDATION PLAN
SLAB PLAN
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CANE MILL ESTATES LOT 1



FIRST FLOOR PLAN

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

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

*RADON VENT PROVIDED
PER LOCAL CODE

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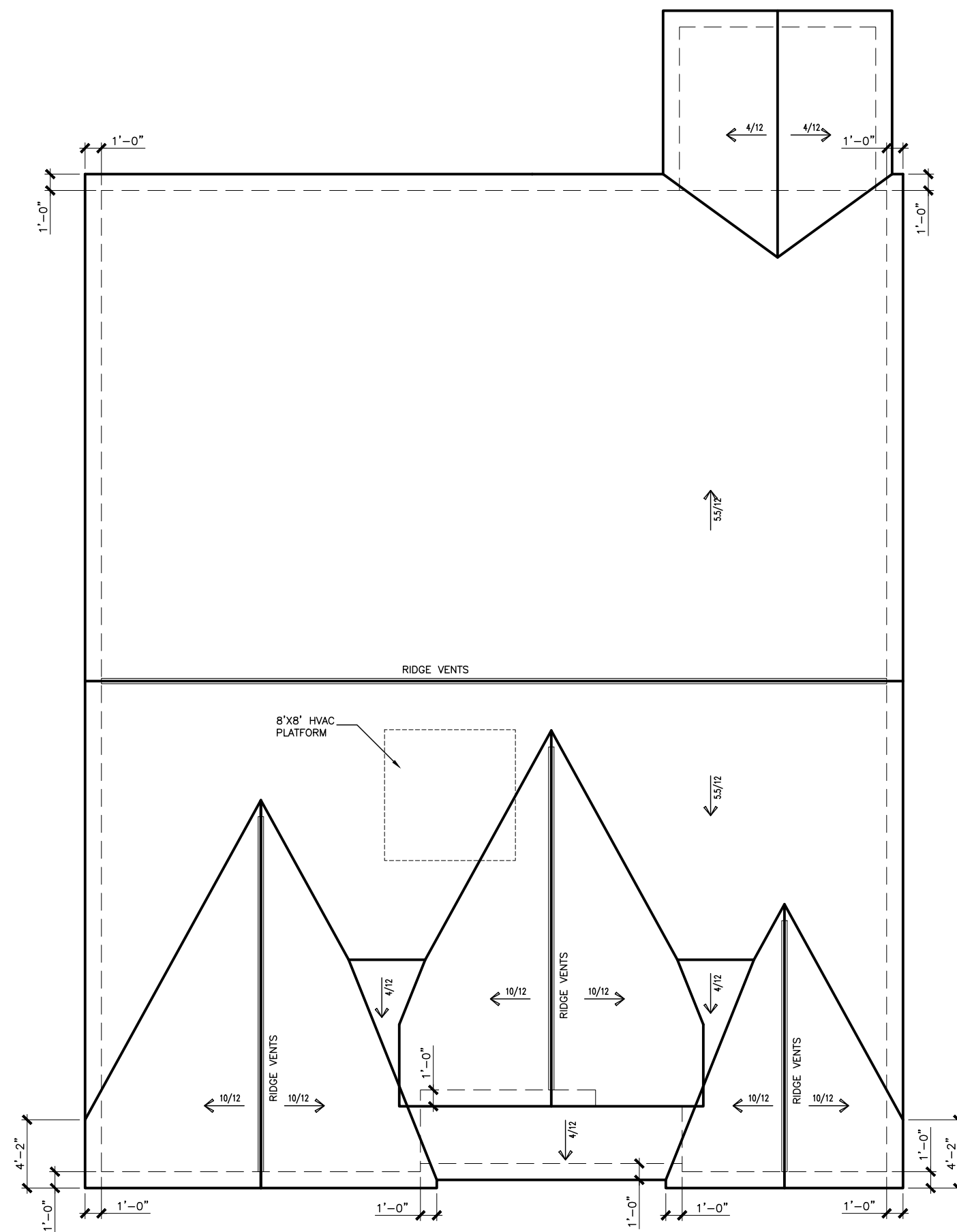
FLOOR PLAN
FIRST FLOOR
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CANE MILL ESTATES LOT 1



ROOF LAYOUT "K"

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

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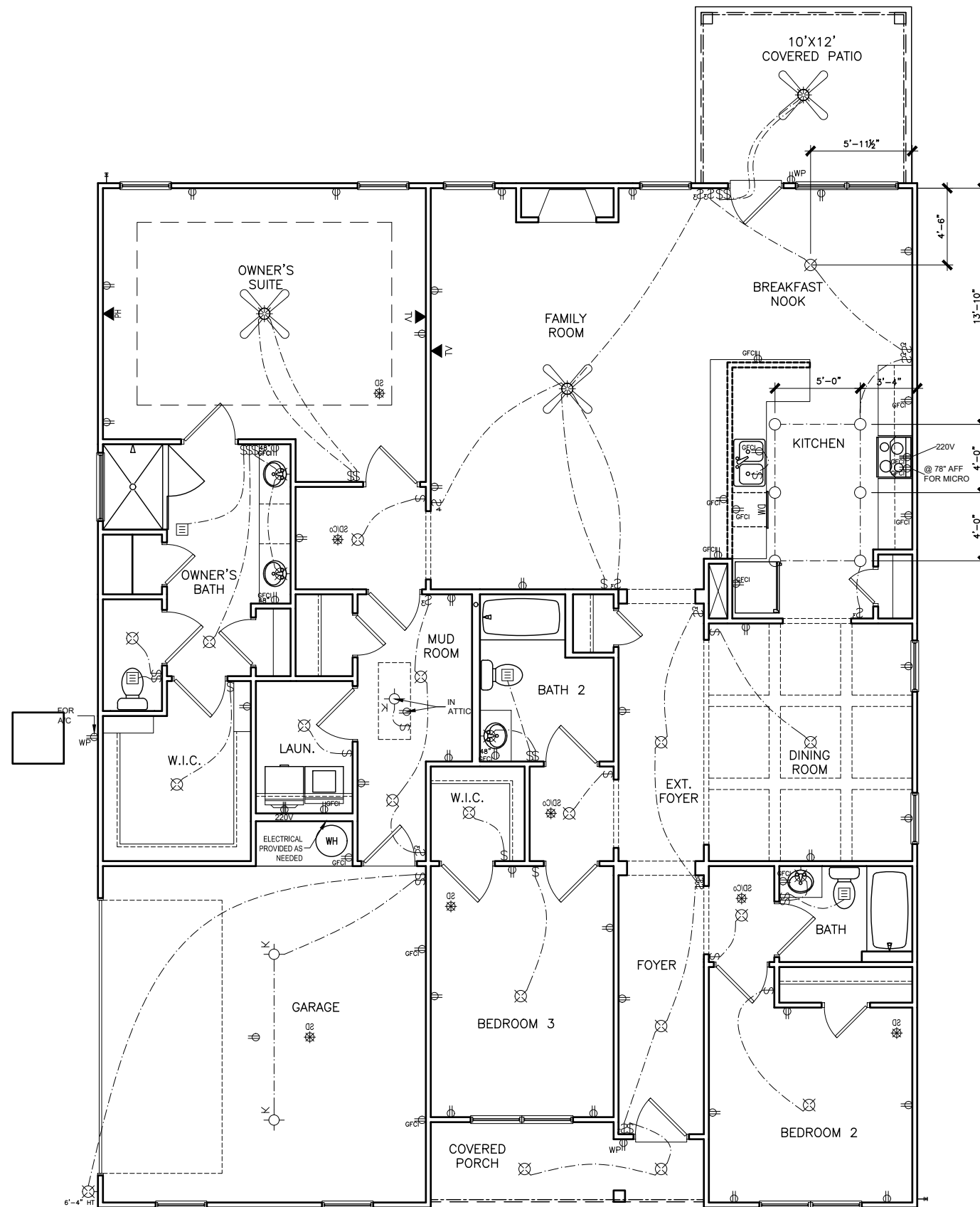
ROOF PLAN
ROOF PLAN
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CANE MILL ESTATES LOT 1



ELECTRICAL LEGEND

| | | | |
|-------|----------------------------------|-------|--------------------------------|
| Ⓢ | SWITCH | ▼ | TV |
| Ⓢ3 | 3 WAY SWITCH | ⊕ | 120V RECEPTACLE |
| Ⓢ4 | 4 WAY SWITCH | ⊕ | 120V SWITCHED RECEPTACLE |
| ⊗ | CEILING FIXTURE | ⊕ | 220V RECEPTACLE |
| ⊕K | KEYLESS | ⊕GFCI | GFCI OUTLET |
| ⊕ | WALL MOUNT FIXTURE | ⊕AFCI | ARCH FAULT CIRCUIT INTERRUPTER |
| ○ | CEILING FIXTURE | †GL | GAS LINE |
| ● | FLEX CONDUIT | †WL | WATER LINE |
| ⊠ | CHIMES | ↓ | HOSE BIBB |
| ▼ | TELEPHONE | ⊕ | FLOOD LIGHT |
| SD/CO | SMOKE DETECTOR & CARBON MONOXIDE | ⊠ | 1x4 LUMINOUS FIXTURE |
| ⊠ | SECURITY OUTLET | ⊗ | CEILING FAN |
| ⊠ | GARAGE DOOR OPENER | — | ELECTRICAL WIRING |
| ⊠ | EXHAUST FAN | ⊕ | CEILING FIXTURE |
| ⊠ | FAN/LIGHT | | |

ELECTRICAL PLANS TO FOLLOW ALL LOCAL CODES

APPROX. FIXTURE HGTS (MEASURED FROM BOTTOM OF FIXTURE)

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

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

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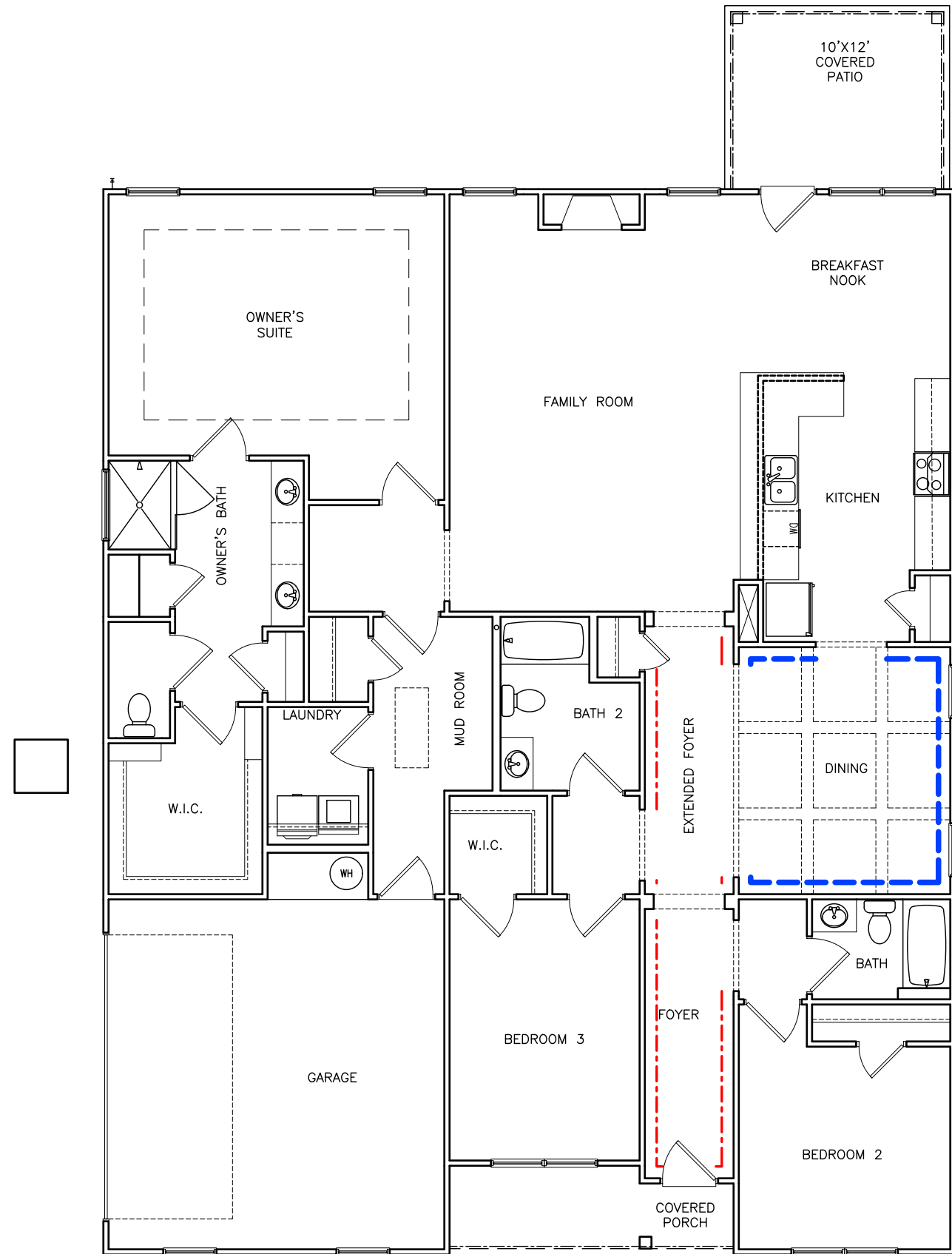
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FIRST FLOOR ELECTRICAL PLAN
SCALE: 1/8" = 1'-0"

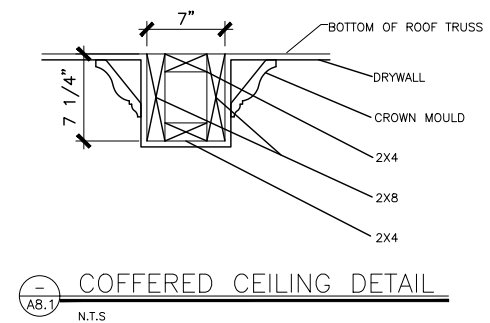
CANE MILL ESTATES LOT 1



FOYER TRIM - CHAIR/SHADOW - - - - -
DINING ROOM TRIM - CHAIR/SHADOW - - - - -

TRIM LAYOUT FIRST FLOOR PLAN

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



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FLOOR PLAN
TRIM LAYOUT
AVERY

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| PLAN ID: | | | |
| FND: | ALL | ELEV: | K |
| PAGE NO: | A8.1 | | |

CANE MILL ESTATES LOT 1

| Lot Definition | | |
|--|--|---------------------------------------|
| Project: Cane Mill Estates | | Community: Cane Mill Estates |
| Building: 000 | | Builder: Thomas Kenneth Barlow |
| Unit: 0001 | | Status: Production Inventory |
| Plan: Avery K Side Entry | | RTeam: Raleigh West |
| Orientation: Garage Left Sq. Ft: 2,404 | | Slot: 5418 |
| Bedrooms: 3 Bathrooms: 3 | | Permit: |
| Address: 35 Planters Lane | | Notes: |
| Coats | | |
| NC 27521 | | |
| Sales Data | | Dates |
| Contract: 87561 | | Ratified: 03/19/2021 |
| Buyer: | | Original Start: 03/19/2021 |
| Sales Agent: Nicole Stinard | | Start: 03/19/2021 |
| | | Scheduled Complete: 07/30/2021 |
| Option | Description | Quantity |
| 36" Cabinet 2nd Upgr w/ Hardware | Includes hardware - knobs, pulls, or knob/pull combo. Note: Bath cabinets to match | 1 |
| Add Screens to Opt RegCvrdPto-Slab | Add screens to Optional Regular Rear Covered Porch per Plan on slab. Aluminum screen frames. Rail specified per Division. Includes Screen door. Door Swing and placement at discretion of Construction Manager based on Site Conditions. Includes 3'x3' concrete door stoop. Only to be used in conjunction with Optional Regular Covered Patio. | 1 |
| Automatic Garage Door Opener | Garage Door Opener - Per Door | 1 |
| Brick 16 C ExtColPkg(f) | | 1 |
| Cabinet Bump above Microwave | Cabinet Bump above Microwave | 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 |
| Chrome Interior Finish Color Package | Includes chrome kitchen faucet, bath faucets, & fixtures, brushed nickel door hardware (hinges, bumps, knobs/levers, deadbolts), Pkg1 (br) lighting fixtures, & pewter oval mirror. Separate options also affected: shower door, bath hardware (towel bar/ring, tp holder), shower grab bar, cabinet hardware | 1 |
| CofferedCeiling-DiningRoom w/1-Pc Cr | Coffered Ceiling for Dining Room with One Piece Crown Sheetrock boxes with crown run inside. | 1 |
| Crown Molding on Kitchen Cabinets | | 1 |
| Dining Room - Chair Rail/Shadow Box | | 1 |
| User Name: Victoria Wicker | | 1 of 2 |
| Database: SmithDouglasCommunities | | 03/26/2021 10:15:26 AM |

| Lot Definition | | |
|--|---|------------------------|
| Extended Foyer - Chair Rail/Shadow Box | Chair Rail/Shadow Box in the Extended Foyer per plan. This option must be chosen in addition to the option Foyer - Chair Rail/Shadow Box. | 1 |
| Fireplace in Family Room - Gas | | 1 |
| FlPkg 5EA-EVP1, StdCpt (fPkg1) | Flooring Package 5EA - Enhanced Vinyl Plank 1, Standard Carpet (from Package 1) | 1 |
| Foyer - Chair Rail/Shadow Box | | 1 |
| FrontDoorUpgr-12-Lite | Upgrade from base house 6-panel door with peephole to 12-lite 3/4 glass front door. | 1 |
| Granite-Kitchen Countertops - Lvl 1 (f) | Kitchen Granite Countertops - Level 1-where Laminite is Std. | 1 |
| Granite-Kitchen Sink Level 1 | Level 1 Undermount rectangular stainless steel sink upgrade for kitchen granite. | 1 |
| Hall Bath Marble 1 Single Ilo LamSgl | | 1 |
| Hall Bath2 Marble 1 Single Ilo LamSgl | | 1 |
| Kitchen Ceiling Fixture Lights ILO Std | Kitchen Lights - Low Profile Flush Mount LED Lights per Plan ILO Standard Light. | 1 |
| Kitchen Faucet - Level 2 (G) | Upgrade to Level 2 Pulldown Kitchen Sink Faucet From Level 1 Faucet on Granite OR Solid Surface | 1 |
| Level 2 - Package Electric (from E1) | Frigidaire SS 24" Dishwasher*** Frigidaire SS 1.6 Cu. Ft. Micro Frigidaire SS 30" Elec Range | 1 |
| Optional Covered Patio-Regular-Fiber (3) | Optional Covered Patio-Regular-Fiber Cement Siding. Actual dimensions can vary per plan. Site Condition Exclusions may apply. ***Starting from 3x3 concrete pad | 1 |
| Owner Bath Marble 1 Double Ilo LamSgl | ***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 |
| RearPorchCeiling Fan w/Light and PreWire | NOTE: DONT PICK TWICE. Rear Porch Exterior Ceiling Fan including Light Kit. Includes Pre-Wire. For use on plans with included Covered Porches OR lots with Optional Rear Covered Porches. Includes credit for std light. | 1 |
| Screens Base House Single Family | Add window screens to all operable standard windows on single family home. NOTE: Does not include screens for windows for optional-2nd-floors, side entry garage, or windows added or changed from structural options, optional windows, or basement windows. See additional options to complete screens. | 1 |
| Shwr Only Wall T1 Large Pan FD OBATHC | (Large shower with level 1 tile walls and framed clear glass door ILO of standard large prefab shower. Prefab pan per plan. (obathc)) | 1 |
| Tray Ceiling - Owner's Bedroom | | 1 |
| User Name: Victoria Wicker | | 2 of 2 |
| Database: SmithDouglasCommunities | | 03/26/2021 10:15:26 AM |

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LOT DEFINITION
LOT DEFINITION
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| PLAN ID: | |
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| PAGE NO: A9.1 | |

DESIGN SPECIFICATIONS:

Construction Type: Commerical Residential

Applicable Building Codes:

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

Design Loads:

- Roof
 - 1.1 Live..... 20 PSF
 - 1.2 Dead..... 10 PSF
 - 1.3 Snow..... 15 PSF
 - 1.3.1 Importance Factor..... 1.0
- Floor Live Loads
 - 2.1 Typ. Dwelling..... 40 PSF
 - 2.2 Sleeping Areas..... 30 PSF
 - 2.3 Balconies (exterior) and Decks..... 40 PSF
 - 2.4 Garage Parking..... 50 PSF
- Floor Dead Loads
 - 3.1 Conventional 2x..... 10 PSF
 - 3.2 I-Joist..... 15 PSF
 - 3.3 Floor Truss..... 15 PSF
- Ultimate Wind Speed (3 sec. gust)..... 130 MPH
 - 4.1 Exposure..... B
 - 4.2 Importance Factor..... 1.0
 - 4.3 Wind Base Shear
 - 4.3.1 Vx =
 - 4.3.2 Vy =
- Component and Cladding (in PSF)

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

- Seismic
 - 6.1 Site Class..... D
 - 6.2 Design Category..... C
 - 6.3 Importance Factor..... 1.0
 - 6.4 Seismic Use Group..... 1
 - 6.5 Spectral Response Acceleration
 - 6.5.1 S_{ms} = %g
 - 6.5.2 S_{m1} = %g
 - 6.6 Seismic Base Shear
 - 6.6.1 V_x =
 - 6.6.2 V_y =
 - 6.7 Basic Structural System (check one)
 - Bearing Wall
 - Building Frame
 - Moment Frame
 - Dual w/ Special Moment Frame
 - Dual w/ Intermediate R/C or Special Steel
 - Inverted Pendulum
 - 6.8 Arch/Mech Components Anchored?.....No
 - 6.9 Lateral Design Control: Seismic Wind
- Assumed Soil Bearing Capacity.....2000psf



STRUCTURAL PLANS PREPARED FOR:

AVERY

PROJECT ADDRESS: TBD
OWNER: Smith Douglas Homes - Raleigh
 2520 Reliance Ave.
 Apex, NC 27539

ARCHITECT/DESIGNER:
 Smith Douglas Homes
 110 Village Trail, Suite 215
 Woodstock, GA 30188

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

PLAN ABBREVIATIONS:

| | | | |
|------|---|-----|-------------------------------|
| AB | Anchor Bolt | OC | On Center |
| ACI | American Concrete Institute | PCF | Pounds per Cubic Foot |
| ASCE | American Society of Civil Engineers | PCI | Pounds per Cubic Inch |
| AFA | American Fiberboard Association | PSF | Pounds per Square Foot |
| AFF | Above Finished Floor | PSI | Pounds per Square Inch |
| AISC | American Institute for Steel Construction | PT | Pressure Treated |
| APA | American Plywood Association | SC | Stud Column |
| AWS | American Welding Society | SER | Structural Engineer of Record |
| CJ | Ceiling Joist | SJ | Single Joist |
| CLR | Clear | SPF | Spruce Pine Fir |
| DBL | Double | SST | Simpson Strong Tie |
| DJ | Double Joist | ST | Single Truss |
| DSP | Double Stud Pocket | STD | Standard |
| EA | Each | TJ | Triple Joist |
| EE | Each End | TOF | Top of Footing |
| EOS | Edge of Slab | TSP | Triple Stud Pocket |
| EW | Each Way | TYP | Typical |
| HDG | Hot Dipped Galvanized | UNO | Unless Noted Otherwise |
| NDS | Nation Design Spec. for Wood | WWF | Welded Wire Fabric |
| NTS | Not to Scale | | |

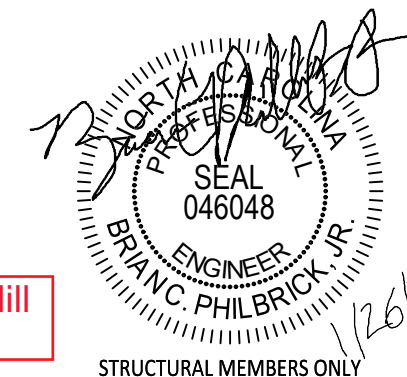
SHEET LIST:

| Sheet No. | Description |
|-----------|--|
| CS1 | Cover Sheet, Specifications, Revisions |
| CS2 | Specifications Continued |
| S1.0m | Monolithic Slab Foundation |
| S1.0s | Stem Wall Foundation |
| S1.0c | Crawl Space Foundation |
| S1.0b | Basement Foundation |
| S2.0 | Basement Framing Plan |
| S3.0 | First Floor Framing Plan |
| S4.0 | Second Floor Framing Plan |
| S5.0 | Roof Framing Plan |
| S6.0 | Basement Bracing Plan |
| S7.0 | First Floor Bracing Plan |
| S8.0 | Second Floor Bracing Plan |

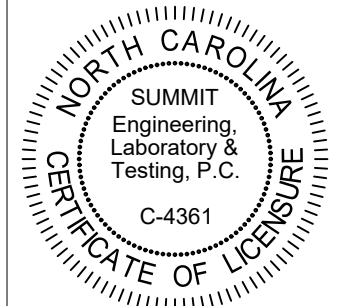
REVISION LIST:

| Revision No. | Date | Project No. | Description |
|--------------|----------|-------------|---|
| 1 | 3/30/16 | 3832.06R | Created LH version of plan |
| 2 | 7/27/17 | 3832.06R2 | Added Superior wall bsmt fnd |
| 3 | 8/24/17 | 3832.06R3 | Added rear porch options |
| 4 | 10/11/17 | 3832.06R4 | Updated per revised arch. files |
| 5 | 12/12/17 | 3832.06R5 | Updated text font |
| 6 | 2/26/18 | 3832.110 | Updated per revised arch. files |
| 7 | 8/1/18 | 3832.110R | Updated rear covered porch |
| 8 | 1/30/19 | 3832.211 | Updated per 2018 NCRC |
| 9 | 3/11/19 | 3832.211R | Corrected basement header |
| 10 | 1/7/21 | 3832.T0542 | Updated elevation BEH per new roof truss layout |
| 11 | 1/13/21 | 3832.T0542 | Updated elevation K per new roof truss layout |

Cane Mill Lot 1



STRUCTURAL MEMBERS ONLY



PROJECT: Avery - LH
 Coversheet
 CLIENT: Smith Douglas Homes - Raleigh
 2520 Reliance Ave.
 Apex, NC 27539

CURRENT DRAWING
 DATE: 1/7/2021
 SCALE: 1/8"=1'-0"
 PROJECT #: 3832.T0542
 DRAWN BY: DGT
 CHECKED BY: BCP

ORIGINAL DRAWING
 DATE: 3/30/16
 PROJECT#: 3832.06

REFER TO COVER SHEET FOR A COMPLETE LIST OF REVISIONS

SHEET

CS1

GENERAL STRUCTURAL NOTES:

- The design professional whose seal appears on these drawings is the structural engineer of record (SER) for this project. The SER bears the responsibility of the primary structural elements and the performance of this structure. No other party may revise, alter, or delete any structural aspects of these construction documents without written permission of SUMMIT Engineering, Laboratory & Testing, P.C. (SUMMIT) or the SER. For the purposes of these construction documents the SER and SUMMIT shall be considered the same entity.
- 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
 - 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 AWWA standard C-15. All other moisture exposed wood shall be treated in accordance with AWWA 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.

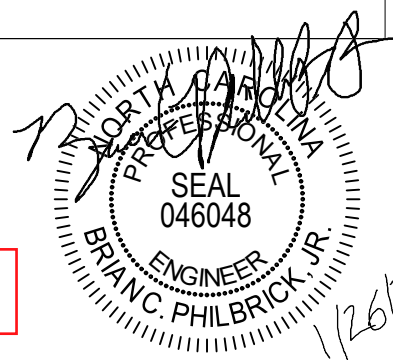
EXTERIOR WOOD FRAMED DECKS:

- 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.

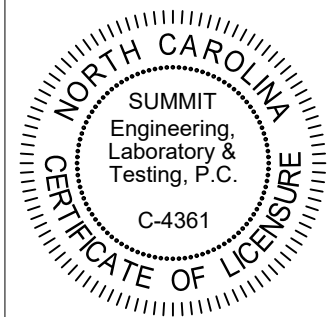
STRUCTURAL STEEL:

- 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 (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.

Cane Mill Lot 1



STRUCTURAL MEMBERS ONLY



PROJECT
Avery - LH
Coversheet
CLIENT
Smith Douglas Homes - Raleigh
2520 Reliance Ave.
Apex, NC 27539

CURRENT DRAWING
DATE: 1/7/2021
SCALE: 1/8"=1'-0"
PROJECT #: 3832.T0542
DRAWN BY: DGT
CHECKED BY: BCP

ORIGINAL DRAWING
DATE PROJECT#
3/30/16 3832.06

REFER TO COVER SHEET FOR A COMPLETE LIST OF REVISIONS

SHEET
CS2

FOUNDATION NOTES:

- FOUNDATIONS TO BE CONSTRUCTED IN ACCORDANCE WITH CHAPTER 4 OF THE 2018 NORTH CAROLINA RESIDENTIAL BUILDING CODE WITH ALL LOCAL AMENDMENTS.
- STRUCTURAL CONCRETE TO BE $F_c = 3000$ PSI, PREPARED AND PLACED IN ACCORDANCE WITH ACI STANDARD 318.
- FOOTINGS TO BE PLACED ON UNDISTURBED EARTH, BEARING A MINIMUM OF 12" BELOW ADJACENT FINISHED GRADE, OR AS OTHERWISE DIRECTED BY THE CODE ENFORCEMENT OFFICIAL.
- 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.
- FOOTINGS AND PIERS SHALL BE CENTERED UNDER THEIR RESPECTIVE ELEMENTS. PROVIDE 2" MINIMUM FOOTING PROJECTION FROM THE FACE OF MASONRY.
- MAXIMUM DEPTH OF UNBALANCED FILL AGAINST MASONRY WALLS TO BE AS SPECIFIED IN SECTION R404.1 OF THE 2018 NORTH CAROLINA RESIDENTIAL BUILDING CODE.
- PLASTER TO BE BONDED TO PERIMETER FOUNDATION WALL.
- PROVIDE FOUNDATION WATERPROOFING, AND DRAIN WITH POSITIVE SLOPE TO OUTLET AS REQUIRED BY SITE CONDITIONS.
- PROVIDED PERIMETER INSULATION FOR ALL FOUNDATIONS PER 2018 NORTH CAROLINA RESIDENTIAL BUILDING CODE.
- CORBEL FOUNDATION WALL AS REQUIRED TO ACCOMMODATE BRICK VENEERS.
- CRAWL SPACE TO BE GRADED LEVEL, AND CLEARED OF ALL DEBRIS.
- FOUNDATION ANCHORAGE SHALL BE CONSTRUCTED PER THE 2018 NORTH CAROLINA RESIDENTIAL CODE SECTION R403.1.6. MINIMUM 1/2" DIA. BOLTS SPACED AT 6'-0" ON CENTER WITH A 2" MINIMUM EMBEDMENT INTO MASONRY OR CONCRETE. ANCHOR BOLTS SHALL BE 12" FROM THE END OF EACH PLATE SECTION. MINIMUM (2) ANCHOR BOLTS PER PLATE SECTION. ANCHOR BOLTS SHALL BE LOCATED IN THE CENTER THIRD OF THE PLATE.
- ABBREVIATIONS:

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

- ALL PIERS TO BE 16"x16" MASONRY AND ALL PLASTERS TO BE 8"x16" MASONRY, TYPICAL. (UNO)
- WALL FOOTINGS TO BE CONTINUOUS CONCRETE. SIZES PER STRUCTURAL PLAN.
- A FOUNDATION EXCAVATION OBSERVATION SHOULD BE CONDUCTED BY A PROFESSIONAL GEOTECHNICAL ENGINEER, OR HIS QUALIFIED REPRESENTATIVE. IF ISOLATED AREAS OF YIELDING MATERIALS AND/OR POTENTIALLY EXPANSIVE SOILS ARE OBSERVED IN THE FOOTING EXCAVATIONS AT THE TIME OF CONSTRUCTION, SUMMIT ENGINEERING, LABORATORY & TESTING, P.C. MUST BE PROVIDED THE OPPORTUNITY TO REVIEW THE FOOTING DESIGN PRIOR TO CONCRETE PLACEMENT.
- ALL FOOTINGS & SLABS ARE TO BEAR ON UNDISTURBED SOIL OR 95% COMPACTED FILL, VERIFIED BY ENGINEER OR CODE OFFICIAL.

REFER TO BRACED WALL PLAN FOR PANEL LOCATIONS AND ANY REQUIRED HOLDINGS. ADDITIONAL INFO. PER SECTION R602.10.4 AND FIGURE R602.10.3(4) OF THE 2018 NCR.

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

THESE PLANS ARE DESIGNED IN ACCORDANCE WITH ARCHITECTURAL PLANS PROVIDED BY SMITH DOUGLAS HOMES COMPLETED/REVISED ON 1/15/18. 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. 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.

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

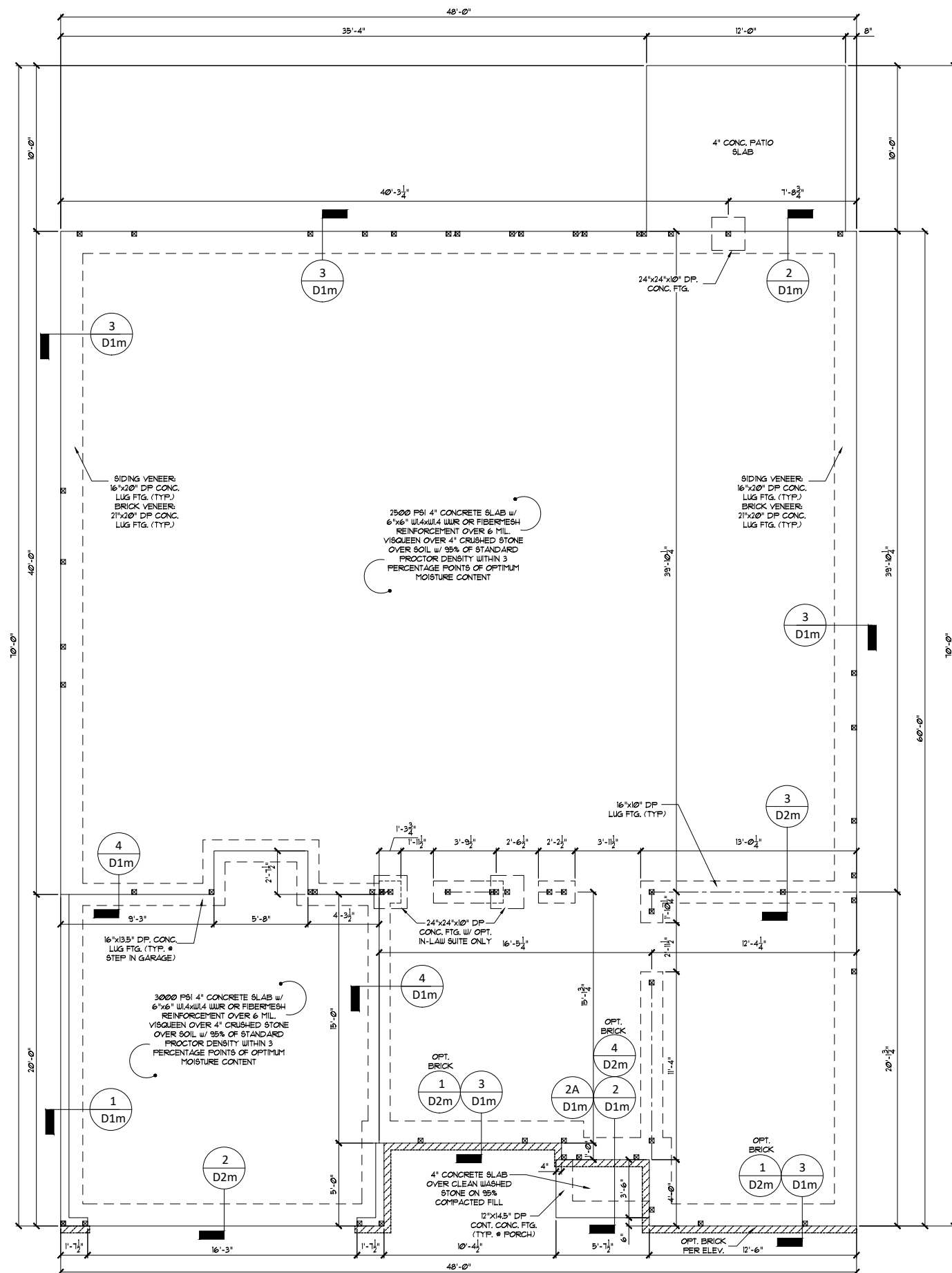
STRUCTURAL MEMBERS ONLY

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.

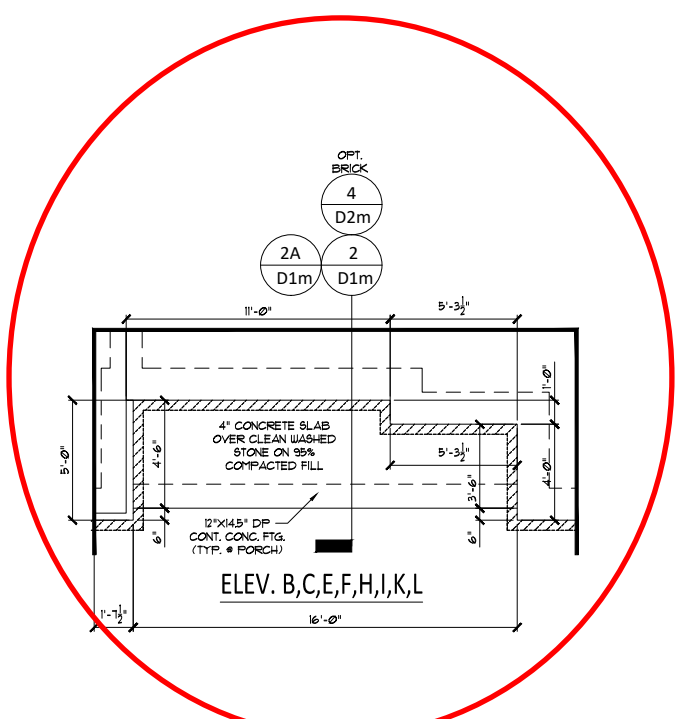
STRUCTURAL ANALYSIS BASED ON 2018 NCR.

MONOLITHIC SLAB FOUNDATION

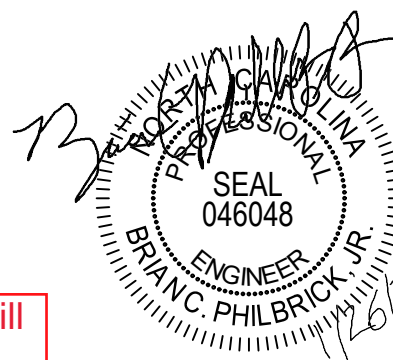
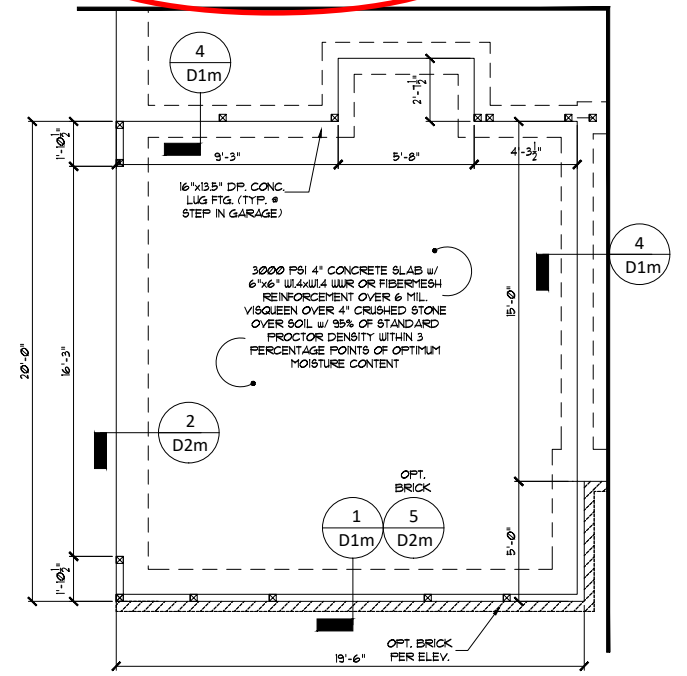
SCALE: 1/8"=1'



ELEVATIONS A, D, G, J



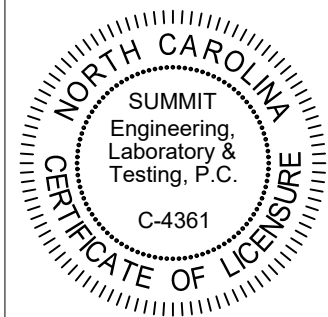
OPT. SIDE LOAD GARAGE



Cane Mill Lot 1

STRUCTURAL MEMBERS ONLY

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



PROJECT Avery - LH
Monolithic Slab Fnd.
CLIENT Smith Douglas Homes - Raleigh
2520 Reliance Ave.
Apex, NC 27539

CURRENT DRAWING
DATE: 1/7/2021
SCALE: 1/8"=1'-0"
PROJECT #: 3832.T0542
DRAWN BY: DGT
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ORIGINAL DRAWING
DATE 3/30/16 PROJECT# 3832.06

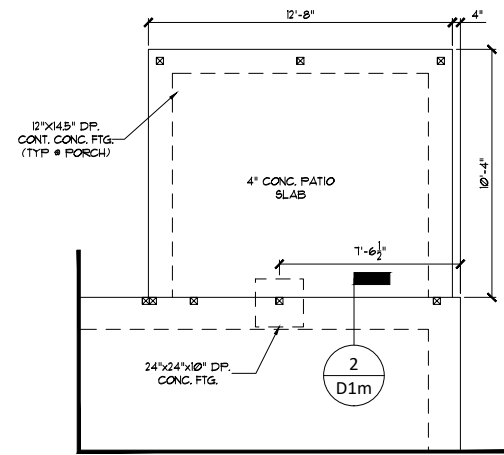
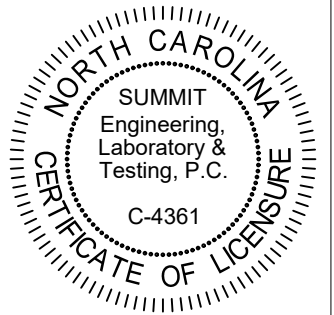
REFER TO COVER SHEET FOR A COMPLETE LIST OF REVISIONS

SHEET **S1.0m**

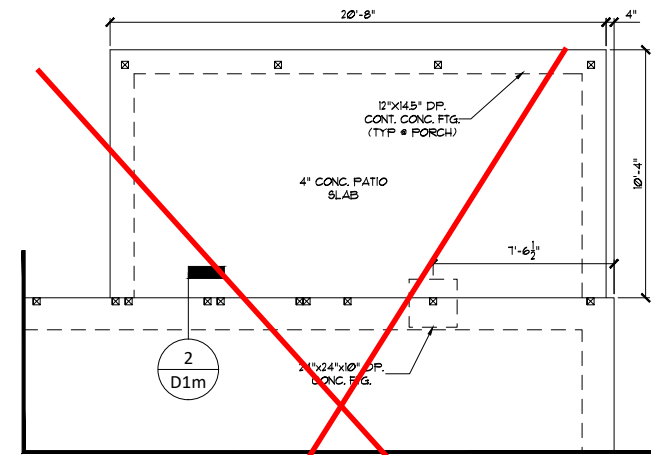
SEE SHEET S1.0m FOR NOTES AND MORE INFORMATION



3070 HAMMOND BUSINESS PLACE, SUITE 171
 RALEIGH, NC 27603
 OFFICE: 919.380.9991
 FAX: 919.380.9993
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OPT. SCREENED/COVERED PORCH



OPT. EXT. SCREENED/COVERED PORCH

STRUCTURAL MEMBERS ONLY

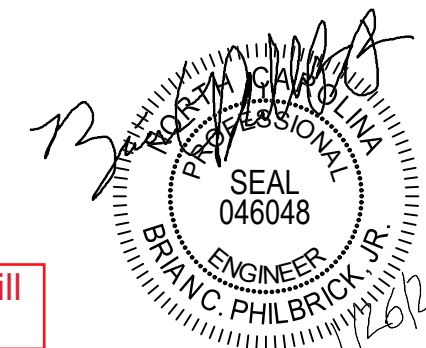
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STRUCTURAL ANALYSIS BASED ON 2018 NCRC.

MONOLITHIC SLAB FOUNDATION

SCALE: 1/8"=1'

Cane Mill Lot 1



STRUCTURAL MEMBERS ONLY

PROJECT
 Avery - LH
Monolithic Slab Fnd.
 CLIENT
 Smith Douglas Homes - Raleigh
 2520 Reliance Ave.
 Apex, NC 27539

CURRENT DRAWING

DATE: 1/7/2021
 SCALE: 1/8"=1'-0"
 PROJECT #: 3832.T0542
 DRAWN BY: DGT
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ORIGINAL DRAWING

DATE PROJECT#
 3/30/16 3832.06

REFER TO COVER SHEET FOR A COMPLETE LIST OF REVISIONS

SHEET

S1.1m

- GENERAL STRUCTURAL NOTES:
- CONSTRUCTION SHALL CONFORM TO 2018 NORTH CAROLINA RESIDENTIAL BUILDING CODE WITH ALL LOCAL AMENDMENTS.
 - CONTRACTOR SHALL VERIFY ALL DIMENSIONS. CONTRACTOR SHALL COMPLY WITH THE CONTENTS OF THE DRAWING FOR THIS SPECIFIC PROJECT. ENGINEER IS NOT RESPONSIBLE FOR ANY DEVIATIONS FROM THIS PLAN.
 - CONTRACTOR IS RESPONSIBLE FOR PROVIDING TEMPORARY BRACING REQUIRED TO RESIST ALL FORCES ENCOUNTERED DURING ERECTION.
 - PROPERTIES USED IN THE DESIGN ARE AS FOLLOWS:
MICROLAM (LVL): $F_y = 2600$ PSI, $F_x = 285$ PSI, $E = 1.9 \times 10^6$ PSI
PARALLAM (PSL): $F_y = 2900$ PSI, $F_x = 290$ PSI, $E = 1.25 \times 10^6$ PSI
 - ALL WOOD MEMBERS SHALL BE #2 SYP UNLESS NOTED ON PLAN. ALL STUD COLUMNS AND JOISTS SHALL BE #2 SYP (UNO).
 - ALL BEAMS SHALL BE SUPPORTED WITH A (2) 2x4 #2 SYP STUD COLUMN AT EACH END UNLESS NOTED OTHERWISE.
 - ALL REINFORCING STEEL SHALL BE GRADE 60 BARS CONFORMING TO ASTM A615 AND SHALL HAVE A MINIMUM COVER OF 3".
 - FOUNDATION ANCHORAGE SHALL BE CONSTRUCTED PER THE 2018 NORTH CAROLINA RESIDENTIAL CODE SECTION R403.1.6. MINIMUM 1/2" DIA. BOLTS SPACED AT 6'-0" ON CENTER WITH A 7" MINIMUM EMBEDMENT INTO MASONRY OR CONCRETE. ANCHOR BOLTS SHALL BE 12" FROM THE END OF EACH PLATE SECTION. MINIMUM (2) ANCHOR BOLTS PER PLATE SECTION. ANCHOR BOLTS SHALL BE LOCATED IN THE CENTER THIRD OF THE PLATE.
 - CONTRACTOR TO PROVIDED LOOKOUTS WHEN CEILING JOISTS SPAN PERPENDICULAR TO RAFTERS.
 - FITCH BEAMS, 4-PLY LVLS AND 3-PLY SIDE LOADED LVLS SHALL BE BOLTED TOGETHER WITH 1/2" DIA. THRU BOLTS SPACED AT 24" O.C. (MAX) STAGGERED OR EQUIVALENT CONNECTIONS PER DETAIL 1/03F. MIN. EDGE DISTANCE SHALL BE 3" AND (2) BOLTS SHALL BE LOCATED MINIMUM 6" FROM EACH END OF THE BEAM.
 - ALL NON-LOAD BEARING HEADERS SHALL BE (1) FLAT 2x4 SYP #2, DROPPED. FOR NON-LOAD BEARING HEADERS EXCEEDING 8'-0" IN WIDTH AND/OR WITH MORE THAN 2'-0" OF CRIPPLE WALL ABOVE, SHALL BE (2) FLAT 2x4 SYP #2, DROPPED. (UNLESS NOTED OTHERWISE)
 - ABBREVIATIONS:

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

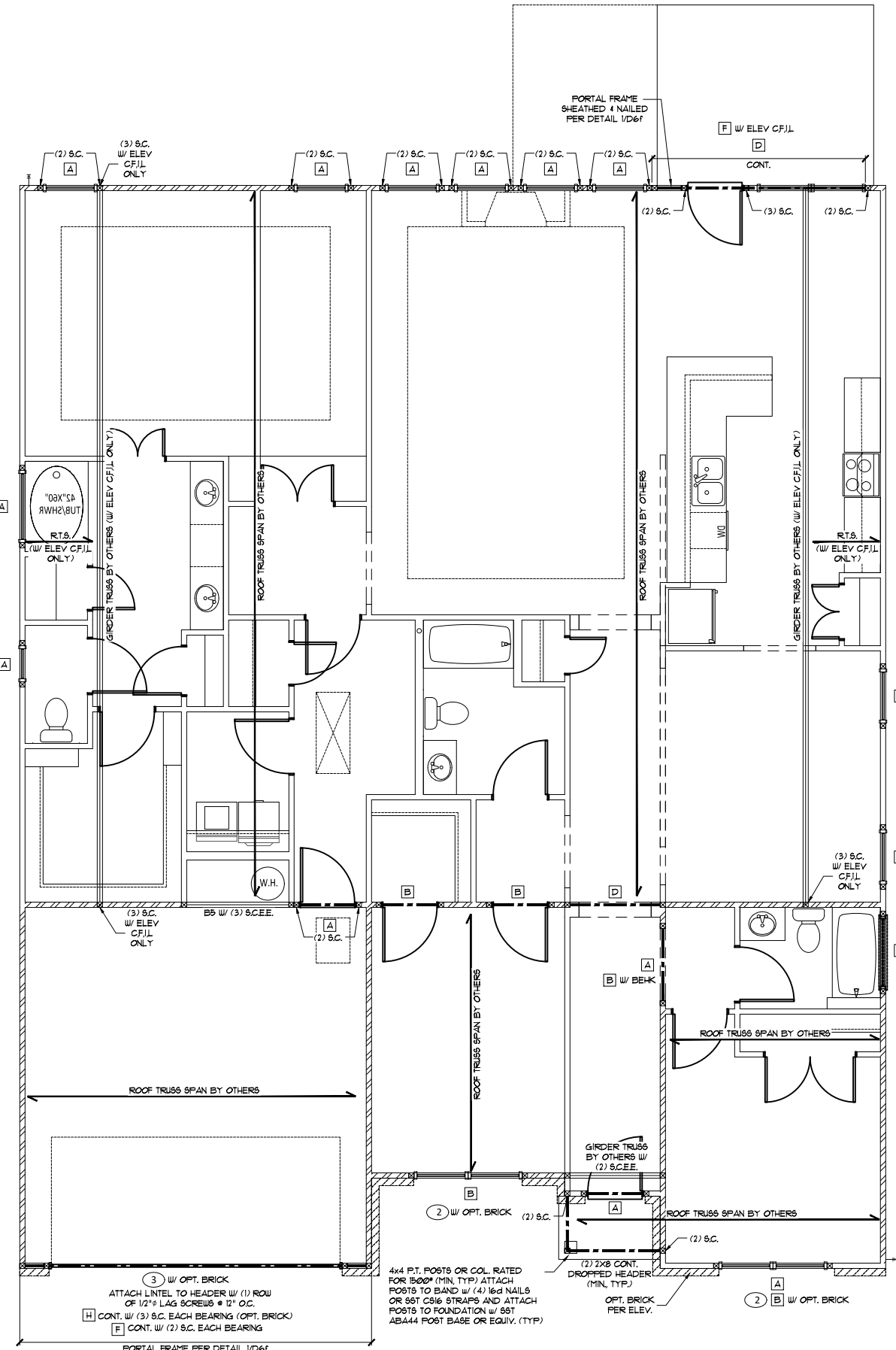
NOTE: --- DESIGNATES JOIST SUPPORTED LOAD BEARING WALL ABOVE. PROVIDE BLOCKING UNDER JOIST SUPPORTED LOAD BEARING WALL

NOTE: SHADED WALLS INDICATE LOAD BEARING WALLS

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

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

STUD COLUMN (S.C.) CALLOUTS ON PLAN OVERRIDE JACK STUD COUNT SHOWN IN BEAM/HEADER SCHEDULE. KING STUDS TO BE INSTALLED PER APPLICABLE BUILDING CODE.



THESE PLANS ARE DESIGNED IN ACCORDANCE WITH ARCHITECTURAL PLANS PROVIDED BY SMITH DOUGLAS HOMES COMPLETED/REVISED ON 1/15/18. 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. 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

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STRUCTURAL ANALYSIS BASED ON 2018 NCRC.

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

| HEADER/BEAM SCHEDULE | | | |
|----------------------|----------|---------------------|------------------|
| HEADER TAG | BEAM TAG | SIZE | JACKS (EACH END) |
| - | B1 | (1) 14" FLOOR JOIST | (2) |
| - | B2 | (2) 14" FLOOR JOIST | (2) |
| A | B3 | (2) 2x6 | (1) |
| B | B4 | (2) 2x8 | (2) |
| C | B5 | (2) 2x10 | (2) |
| D | B6 | (2) 2x12 | (2) |
| E | B7 | (2) 9-1/4" LVL | (3) |
| F | B8 | (2) 11-7/8" LVL | (3) |
| G | B9 | (2) 14" LVL | (3) |
| H | B10 | (2) 16" LVL | (3) |
| I | B11 | (2) 18" LVL | (3) |
| J | B12 | (2) 24" LVL | (4) |
| K | B13 | (3) 9-1/4" LVL | (3) |
| L | B14 | (3) 11-7/8" LVL | (3) |
| M | B16 | (3) 14" LVL | (3) |
| N | B17 | (3) 16" LVL | (3) |
| O | B18 | (3) 18" LVL | (3) |
| P | B19 | (3) 24" LVL | (4) |

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 | L5x3-1/2"x5/16" ROLLED OR EQUIV. | ALL ARCHED OPENINGS |

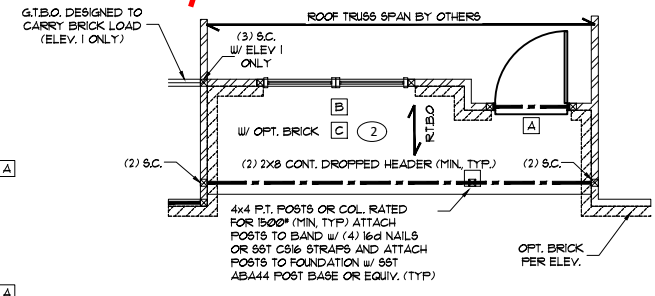
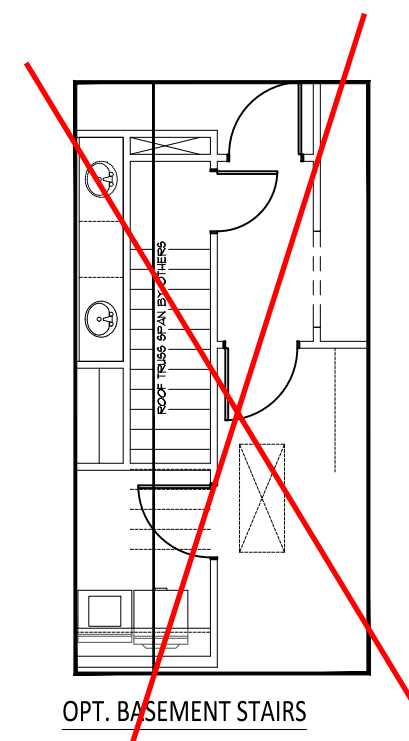
SECURE LINTEL TO HEADER w/ (2) 1/2" DIAMETER LAG SCREWS STAGGERED @ 16" O.C. (TYP FOR ③)

ALL HEADERS WITH BRICK ABOVE: (UNO) ①

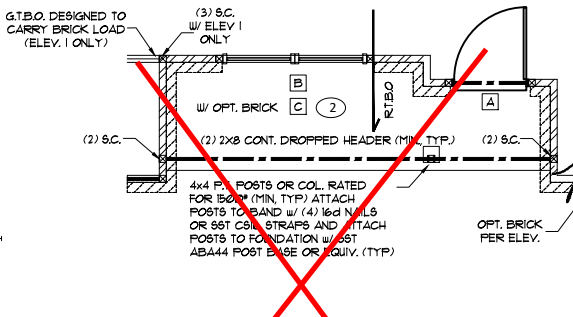
| WALL STUD SCHEDULE | |
|--|--|
| 1ST & 2ND FLOOR LOAD BEARING STUDS: 2x4 STUDS @ 16" O.C. OR 2x6 STUDS @ 24" O.C. | |
| 1ST FLOOR LOAD BEARING STUDS w/ WALK-UP ATTIC: 2x4 STUDS @ 12" O.C. OR 2x6 STUDS @ 16" O.C. | |
| BASEMENT LOAD BEARING STUDS: 2x4 STUDS @ 12" O.C. OR 2x6 STUDS @ 16" O.C. | |
| NON-LOAD BEARING STUDS (ALL FLOORS): 2x4 STUDS @ 24" O.C. | |
| TWO STORY WALLS: 2x4 STUDS @ 12" O.C. OR 2x6 STUDS @ 16" 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 8'-0" | (3) |
| 8'-0" TO 12'-0" | (5) |
| 12'-0" TO 16'-0" | (6) |

KING STUD REQUIREMENTS ABOVE DO NOT APPLY TO PORTAL FRAMED OPENINGS

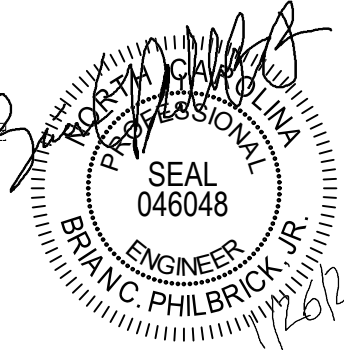


ELEVATIONS B,E,H,K



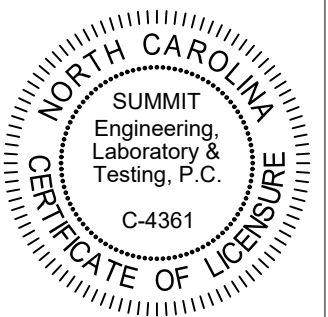
ELEVATIONS C,F,I,J

Cane Mill Lot 1



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



PROJECT: Avery - LH
First Floor Framing
CLIENT: Smith Douglas Homes - Raleigh
2520 Reliance Ave.
Apex, NC 27539

CURRENT DRAWING
DATE: 1/7/2021
SCALE: 1/8"=1'-0"
PROJECT #: 3832.T0542
DRAWN BY: DGT
CHECKED BY: BCP

ORIGINAL DRAWING
DATE: 3/30/16
PROJECT#: 3832.06

REFER TO COVER SHEET FOR A COMPLETE LIST OF REVISIONS

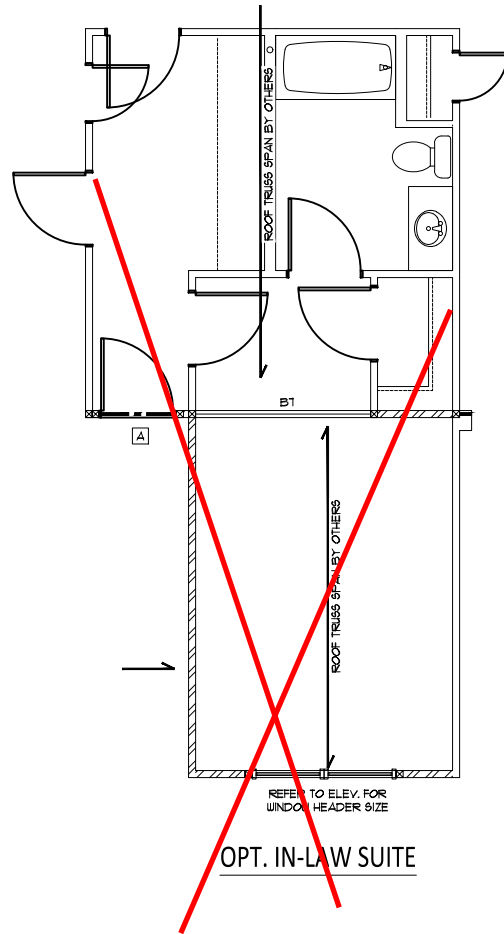
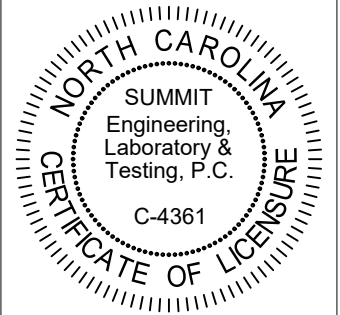
SHEET
S3.0

STRUCTURAL MEMBERS ONLY

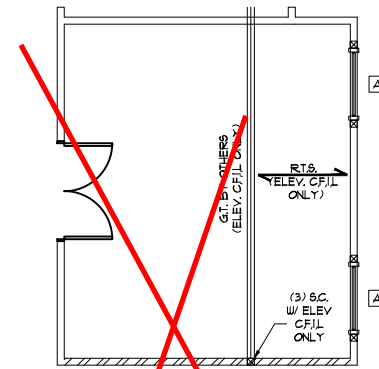
STUD COLUMN (S.C.) CALLOUTS ON PLAN
OVERRIDE JACK STUD COUNT SHOWN IN
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SEE SHEET S3.0 FOR NOTES AND
MORE INFORMATION

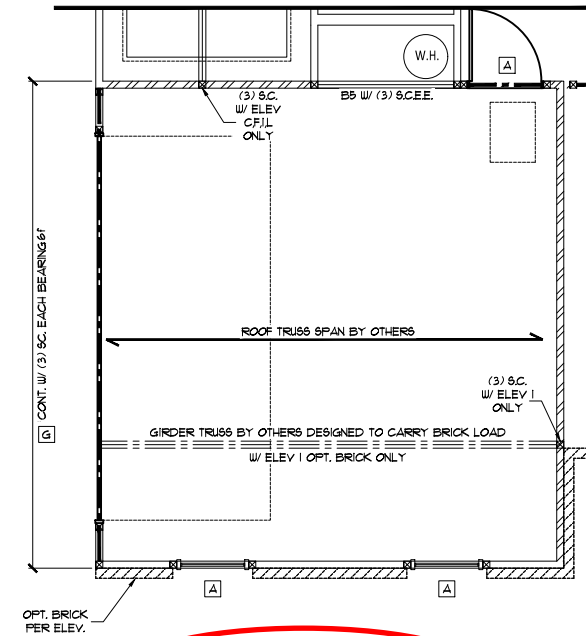
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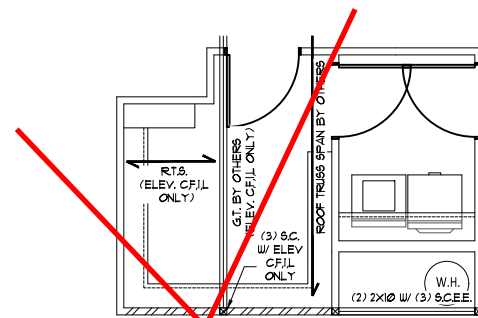
OPT. IN-LAW SUITE



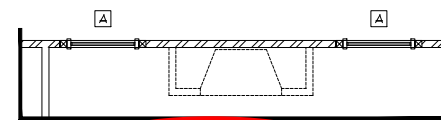
OPT. STUDY/DINING ROOM



OPT. SIDE ENTRY GARAGE



OPT. CLOSET/LAUNDRY DOOR



OPT. FIREPLACE

STRUCTURAL MEMBERS ONLY

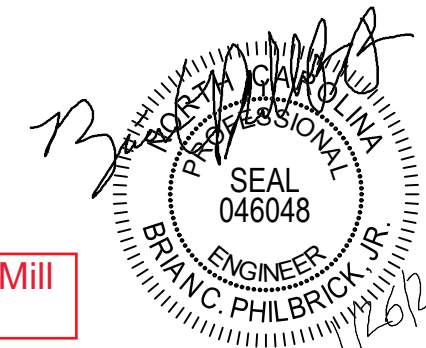
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STRUCTURAL ANALYSIS BASED ON 2018 NCRC.

FIRST FLOOR FRAMING PLAN

SCALE: 1/8"=1'

Cane Mill
Lot 1



STRUCTURAL MEMBERS ONLY

PROJECT

Avery - LH

First Floor Framing

CLIENT

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

CURRENT DRAWING

DATE: 1/7/2021

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DRAWN BY: DGT

CHECKED BY: BCP

ORIGINAL DRAWING

DATE: 3/30/16 PROJECT#: 3832.06

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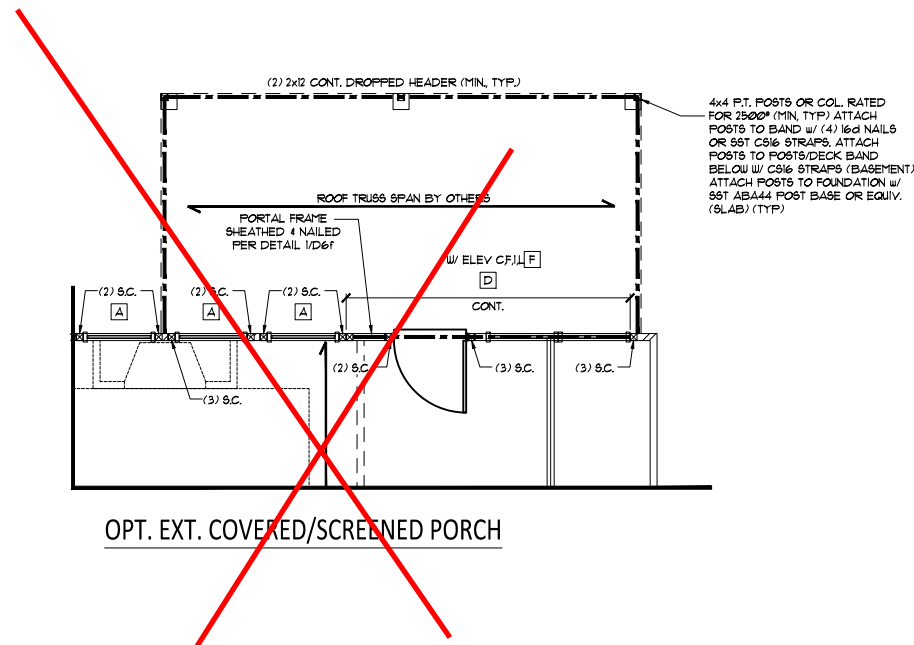
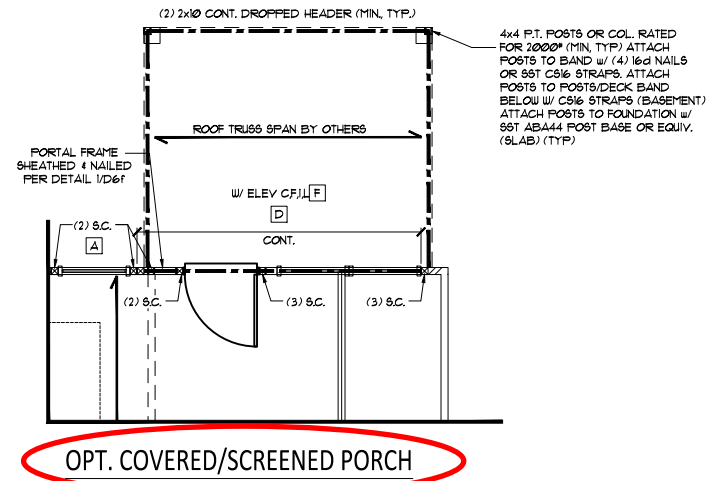
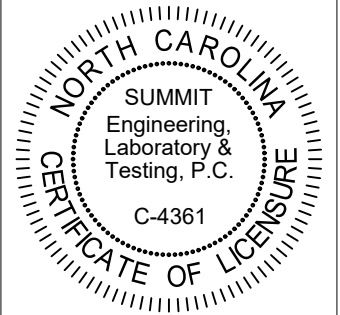
SHEET

S3.1

STUD COLUMN (S.C.) CALLOUTS ON PLAN
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SEE SHEET S3.0 FOR NOTES AND
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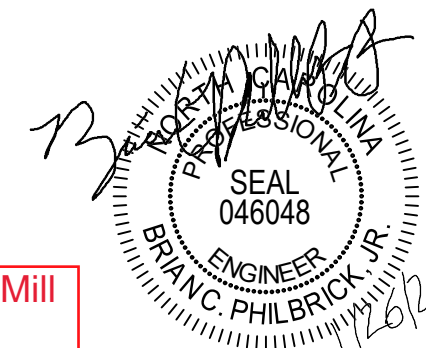
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STRUCTURAL ANALYSIS BASED ON 2018 NCRC.

FIRST FLOOR FRAMING PLAN

SCALE: 1/8"=1'

Cane Mill
Lot 1



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DATE PROJECT#
3/30/16 3832.06

REFER TO COVER SHEET FOR A
COMPLETE LIST OF REVISIONS

SHEET

S3.2

TRUSS UPLIFT CONNECTOR SCHEDULE

| MODEL # | MAX. UPLIFT (LBS) |
|---------|-------------------|
| H1 | 585 |
| H2A | 575 |
| H2.5A | 600 |
| H6 | 950 |
| H10A* | 1340 |
| H14* | 1465 |

USE BELOW ONLY FOR 2-PLY OR GREATER GIRDER TRUSSES THAT EXCEED THE UPLIFT REQUIREMENTS ABOVE.

| MODEL # | MAX. UPLIFT (LBS) | PLY # |
|--------------|-------------------|-------|
| LGT2* | 2050 | 2 |
| LGT3-SDS2.5* | 3685 | 3 |
| LGT4-SDS3* | 4060 | 4 |
| HGT-2* | 10980 | 2 |
| HGT-3* | 10530 | 3 |
| HGT-4* | 9250 | 4 |

- ALL PRODUCTS LISTED ARE SIMPSON STRONG-TIE. EQUIV. PRODUCTS MAY BE USED PER MANUF. SPECIFICATIONS.
- VALUES LISTED ARE FOR A SINGLE ANCHOR. DOUBLE ANCHORS MAY BE USED TO DOUBLE THE UPLIFT CAPACITIES SHOWN ABOVE, PROVIDED A MINIMUM 2-1/2" MEMBER THICKNESS. ITEMS DENOTED WITH "*" MAY NOT BE DOUBLED TO INCREASE LOAD CAPACITY.
- UPLIFT VALUES SHOWN ABOVE ARE FOR SYP #2 GRADE OR BETTER MEMBERS. PLEASE CONTACT EOR OR TRUSS MANUF. IF SPECIES OR GRADE VARIES.
- TRUSS TO TRUSS CONNECTIONS ARE TO BE SPECIFIED AND SUPPLIED BY THE TRUSS MANUF. THE EOR IS NOT RESPONSIBLE FOR THESE CONNECTIONS.

NOTE: 1ST PLY OF ALL SHOWN GIRDER TRUSSES TO ALIGN WITH INSIDE FACE OF WALL (TYP, UNO)

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

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

NOTE: TRUSS UPLIFT LOADS SHALL BE DETERMINED PER TRUSS MANUFACTURER IN ACCORDANCE WITH SECTION R602.11.1.1. WALL SHEATHING AND FASTENERS HAVE BEEN DESIGNED TO RESIST THE WIND UPLIFT LOAD PATH IN ACCORDANCE WITH METHOD 3 OF SECTION R602.3.5 OF THE 2018 NCR. REFER TO BRACED WALL PLANS FOR SHEATHING AND FASTENER REQUIREMENTS.

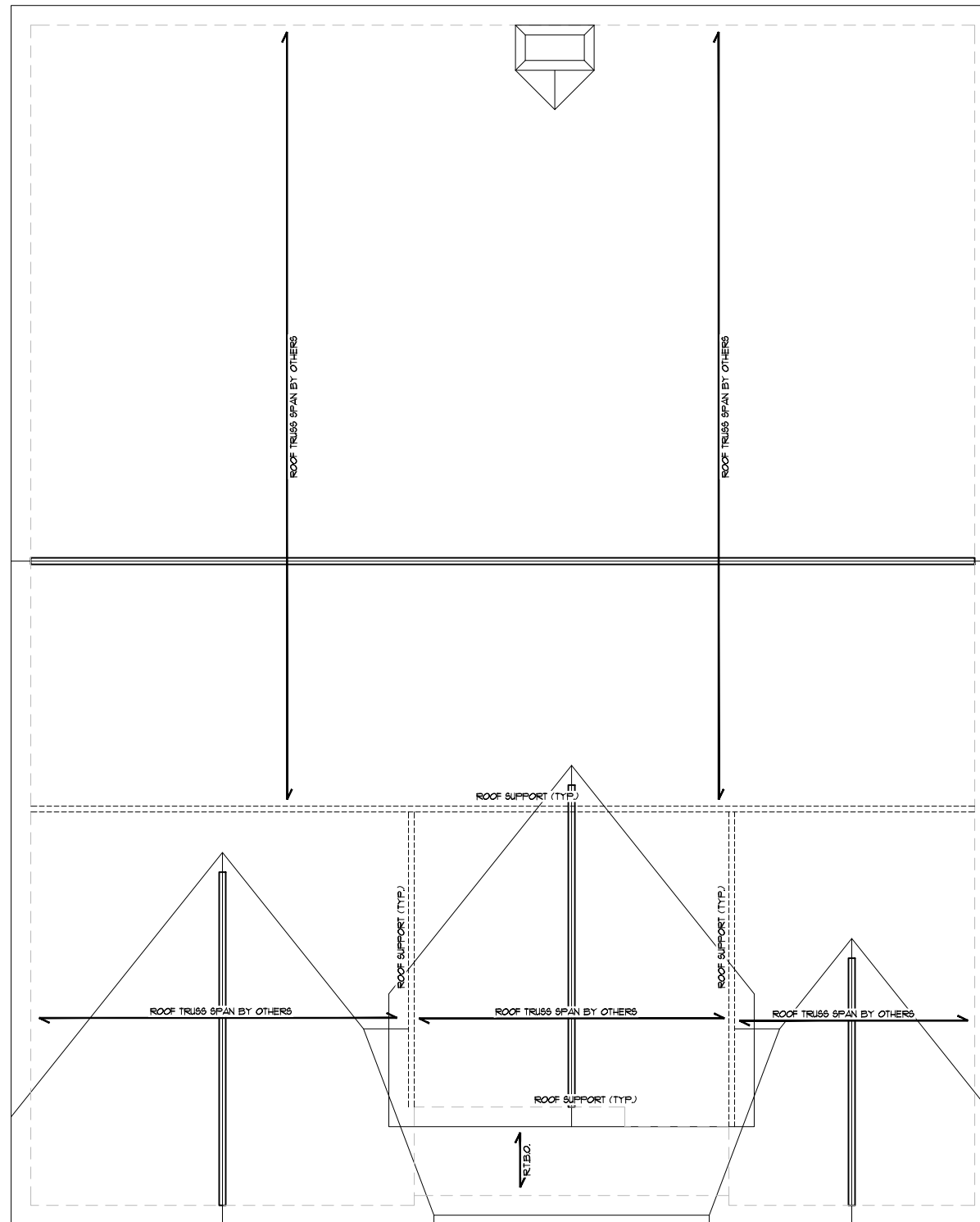
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STRUCTURAL ANALYSIS BASED ON 2018 NCR.

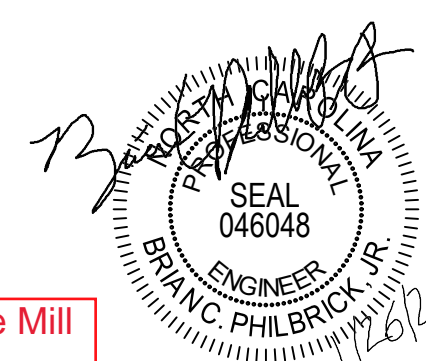
ROOF FRAMING PLAN

SCALE: 1/8"=1'

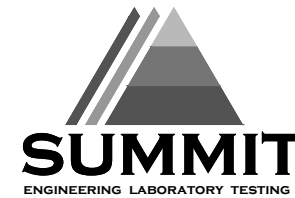


ELEVATION K

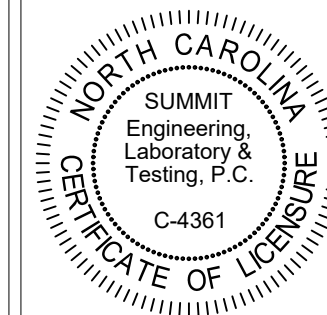
Cane Mill Lot 1



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PROJECT
Avery - LH
Roof Framing Plan
CLIENT
Smith Douglas Homes - Raleigh
2520 Reliance Ave.
Apex, NC 27539

CURRENT DRAWING
DATE: 1/7/2021
SCALE: 1/8"=1'-0"
PROJECT #: 3832.T0542
DRAWN BY: DGT
CHECKED BY: BCP

ORIGINAL DRAWING
DATE: 3/30/16 PROJECT#: 3832.06

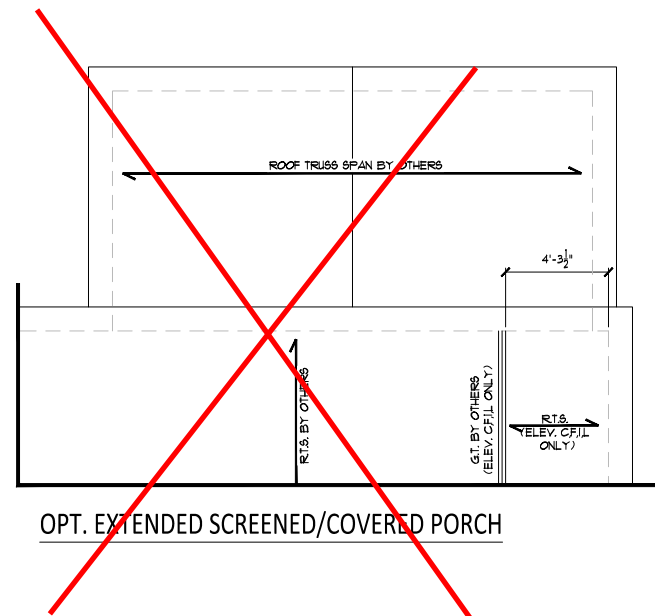
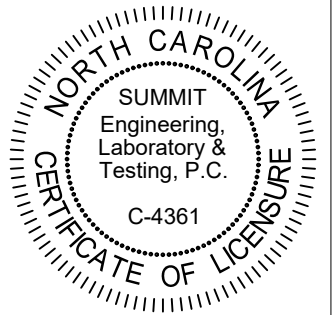
REFER TO COVER SHEET FOR A COMPLETE LIST OF REVISIONS

SHEET
S5.3

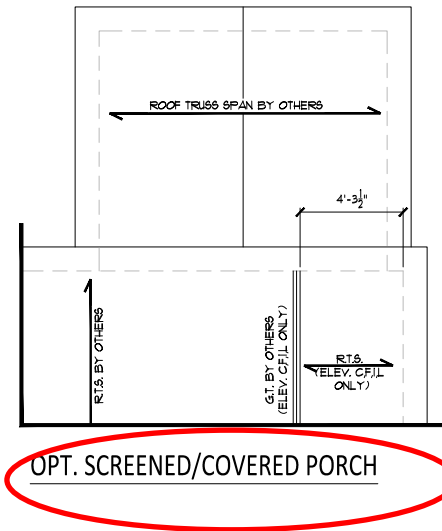
SEE SHEET S5.0 FOR NOTES AND MORE INFORMATION



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OPT. EXTENDED SCREENED/COVERED PORCH



OPT. SCREENED/COVERED PORCH

STRUCTURAL MEMBERS ONLY

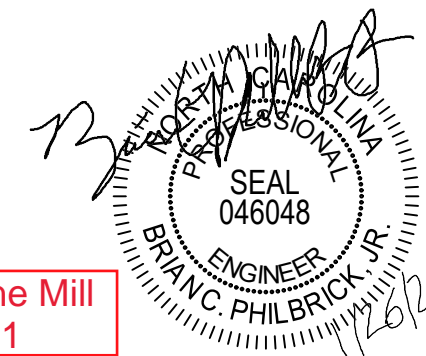
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STRUCTURAL ANALYSIS BASED ON 2018 NCRC.

ROOF FRAMING PLAN

SCALE: 1/8"=1'

Cane Mill Lot 1



STRUCTURAL MEMBERS ONLY

PROJECT Avery - LH
Roof Framing Plan
CLIENT Smith Douglas Homes - Raleigh
2520 Reliance Ave.
Apex, NC 27539

CURRENT DRAWING

DATE: 1/7/2021
SCALE: 1/8"=1'-0"
PROJECT #: 3832.T0542
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ORIGINAL DRAWING

DATE PROJECT#
3/30/16 3832.06

REFER TO COVER SHEET FOR A COMPLETE LIST OF REVISIONS

SHEET

S5.6

| REQUIRED BRACED WALL PANEL CONNECTIONS | | | | |
|--|-----------------------|----------------|-----------------------------|-----------------------------|
| METHOD | MATERIAL | MIN. THICKNESS | REQUIRED CONNECTION | |
| | | | @ PANEL EDGES | @ INTERMEDIATE SUPPORTS |
| CS-WSP | WOOD STRUCTURAL PANEL | 3/8" | 6d COMMON NAILS* @ 6" O.C. | 6d COMMON NAILS* @ 12" O.C. |
| GB | GYPSUM BOARD | 1/2" | 5d COOLER NAILS** @ 7" O.C. | 5d COOLER NAILS** @ 7" O.C. |
| WSP | WOOD STRUCTURAL PANEL | 3/8" | 6d COMMON NAILS* @ 6" O.C. | 6d COMMON NAILS* @ 12" O.C. |
| PF | WOOD STRUCTURAL PANEL | 7/16" | PER FIGURE R602.10.6.4 | PER FIGURE R602.10.6.4 |

*BASED ON 16" O.C. STUD SPACING **OR EQUIVALENT PER TABLE R702.3.5

- BRACED WALL NOTES:**
- WALLS SHALL BE DESIGNED IN ACCORDANCE WITH SECTION R602.10 FROM THE 2015 INTERNATIONAL RESIDENTIAL CODE AS ALLOWED PER SECTION R602.10 OF THE 2018 NC RESIDENTIAL CODE.
 - WALLS ARE DESIGNED FOR SEISMIC ZONES A-C AND MAXIMUM WIND SPEEDS OF 130 MPH.
 - BRACING MATERIALS, METHODS AND FASTENERS SHALL BE IN ACCORDANCE WITH IRC TABLE R602.10.4. REFER TO ARCHITECTURAL PLAN FOR DOOR/WINDOW OPENING SIZES.
 - 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.
 - MINIMUM PANEL LENGTH SHALL BE PER TABLE R602.10.5.
 - 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 ON ALL SHEATHABLE SURFACES INCLUDING INFILL AREAS BETWEEN BRACED WALL PANELS, ABOVE AND BELOW WALL OPENINGS, AND ON GABLE END WALLS.
 - FLOORS SHALL NOT BE CANTILEVERED MORE THAN 24" BEYOND THE FOUNDATION OR BEARING WALL BELOW WITHOUT ADDITIONAL ENGINEERING CALCULATIONS.
 - A BRACED WALL PANEL SHALL BEGIN WITHIN 10 FEET FROM EACH END OF A BRACED WALL LINE.
 - THE DISTANCE BETWEEN ADJACENT EDGES OF BRACED WALL PANELS ALONG A BRACED WALL LINE SHALL BE NO GREATER THAN 20 FEET.
 - ADEQUATE CONTINUOUS LOAD PATHS FOR TRANSFER OF BRACING LOADS AND UPLIFT LOADS SHALL COMPLY WITH IRC SECTION R602.3.5.
 - MASONRY OR CONCRETE STEM WALLS WITH A LENGTH OF 48" OR LESS SUPPORTING A BRACED WALL PANEL SHALL BE DESIGNED IN ACCORDANCE WITH FIGURE R602.10.9.
 - BRACED WALL PANEL CONNECTIONS TO FLOOR/CEILING SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION R602.10.8 (SEE SHEET D13 FROM DETAIL PACKAGE).
 - BRACED WALL PANEL CONNECTIONS TO ROOF SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION R602.10.8.2 AND FIGURES R602.10.8(1)&(2)&(3).
 - CRIPPLE WALLS AND WALK OUT BASEMENT WALLS SHALL BE DESIGNED IN ACCORDANCE WITH SECTION R602.10.11.
 - PORTAL WALLS SHALL BE DESIGNED IN ACCORDANCE WITH FIGURE R602.10.6.4 (UNO)
 - ON SCHEMATIC, SHADED WALLS INDICATE BRACED WALL PANELS.
 - ABBREVIATIONS:
GB = GYPSUM BOARD WSP = WOOD STRUCTURAL PANEL
CS-XXX = CONT. SHEATHED ENG = ENGINEERED SOLUTION
PF = PORTAL FRAME ENG-PF = ENGINEERED PORTAL FRAME

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| FIRST FLOOR BRACING (FT) | | | |
|-----------------------------|----------|----------|--|
| CONTINUOUS SHEATHING METHOD | | | |
| | REQUIRED | PROVIDED | |
| BWL 1-1 | 12.2 | 15.2 | |
| BWL 1-2 | 12.2 | 16.1 | |
| BWL 1-A | 9.4 | 48.2 | |
| BWL 1-B | 9.4 | 54.1 | |

INSTALL ANY REQUIRED HOLDOWNS PER SECTION R602.10.8 AND FIGURE R602.10.7 OF THE 2015 IRC.

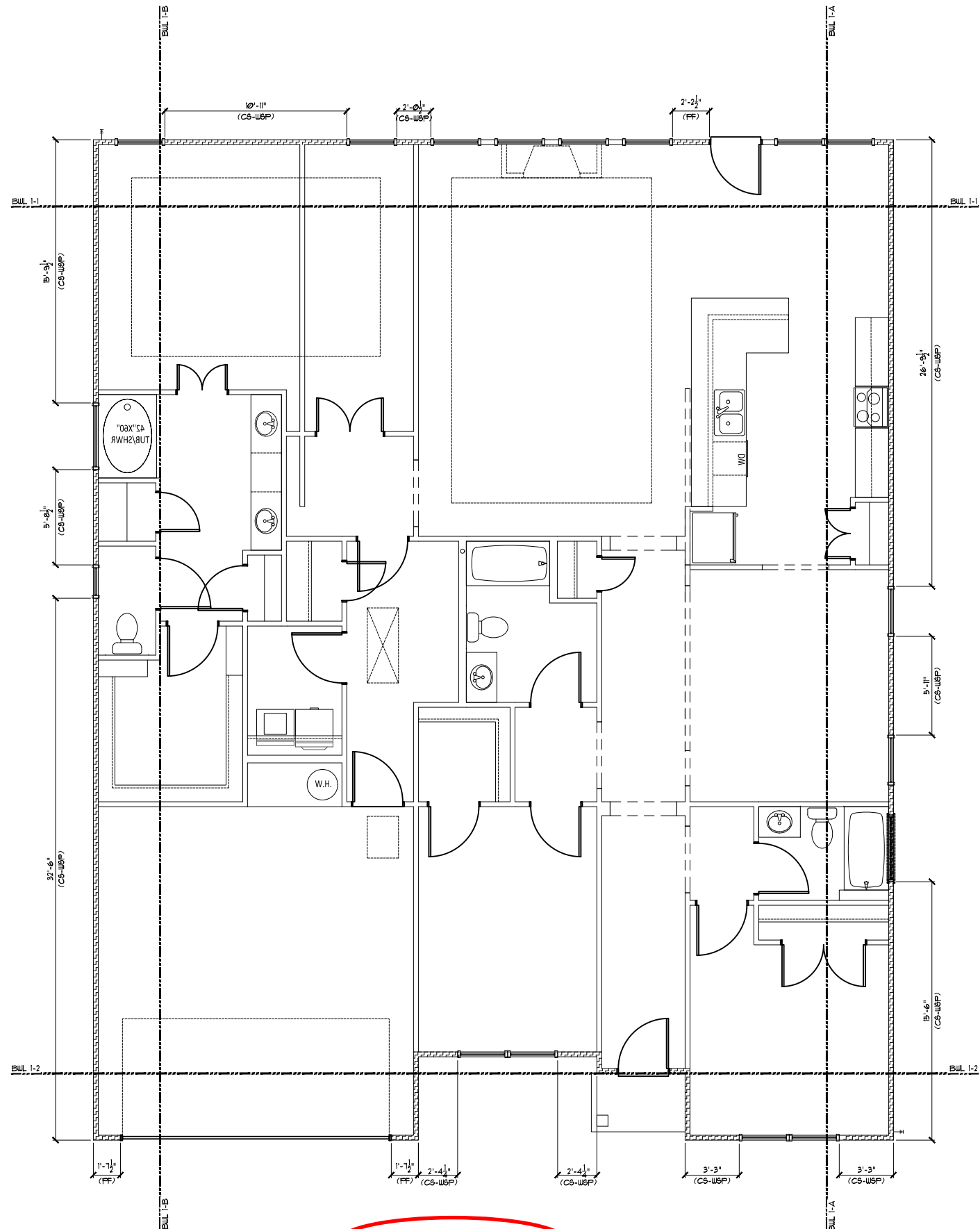
STRUCTURAL MEMBERS ONLY

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 ELT LIABILITY.

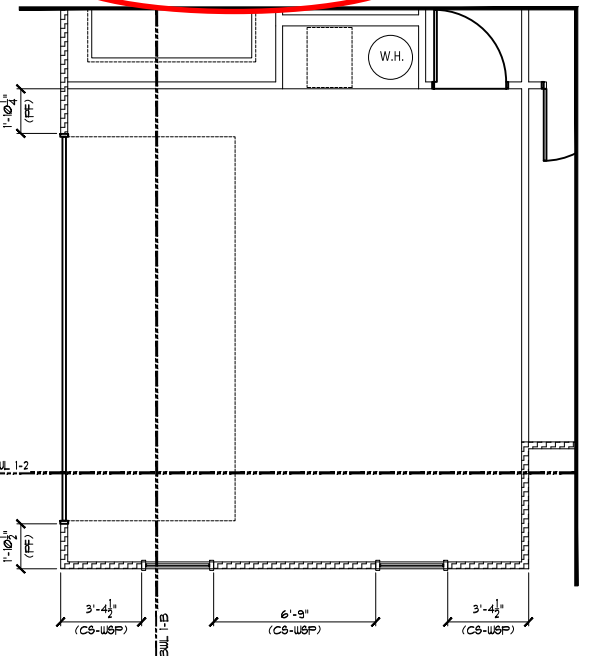
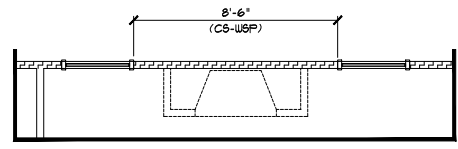
STRUCTURAL ANALYSIS BASED ON 2015 IRC.

FIRST FLOOR BRACING PLAN

SCALE: 1/8"=1'

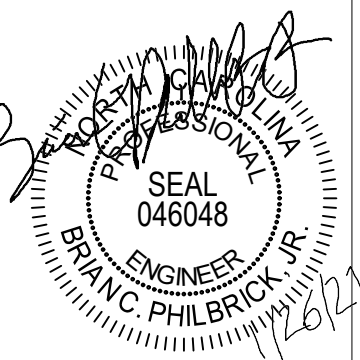


| FIRST FLOOR BRACING (FT) | | |
|-----------------------------|----------|----------|
| CONTINUOUS SHEATHING METHOD | | |
| | REQUIRED | PROVIDED |
| BWL 1-1 | 12.2 | 24.5 |
| BWL 1-2 | 12.2 | 16.1 |
| BWL 1-A | 9.4 | 48.2 |
| BWL 1-B | 9.4 | 54.1 |



| FIRST FLOOR BRACING (FT) | | |
|-----------------------------|----------|----------|
| CONTINUOUS SHEATHING METHOD | | |
| | REQUIRED | PROVIDED |
| BWL 1-1 | 12.2 | 15.2 |
| BWL 1-2 | 12.2 | 24.7 |
| BWL 1-A | 9.4 | 48.2 |
| BWL 1-B | 9.4 | 39.7 |

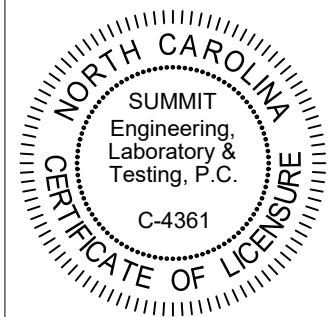
Cane Mill Lot 1



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RALEIGH, NC 27603
OFFICE: 919.380.9991
FAX: 919.380.9993
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PROJECT
Avery - LH

First Floor Bracing

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

CURRENT DRAWING
DATE: 1/7/2021
SCALE: 1/8"=1'-0"
PROJECT #: 3832.T0542
DRAWN BY: DGT
CHECKED BY: BCP

ORIGINAL DRAWING
DATE 3/30/16 PROJECT# 3832.06

REFER TO COVER SHEET FOR A COMPLETE LIST OF REVISIONS

SHEET
S7.0

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:

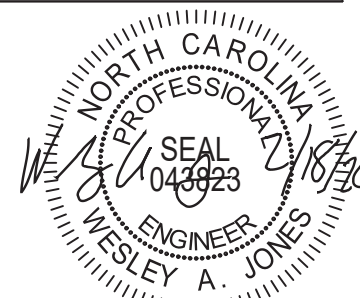
- Fabrication and placement of structural fiberboard sheathing shall be in accordance with the applicable AFA standards.
- Fiberboard wall sheathing shall comply with the requirements of local building codes for the appropriate state as indicated on these drawings. Refer to wall bracing notes in plan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

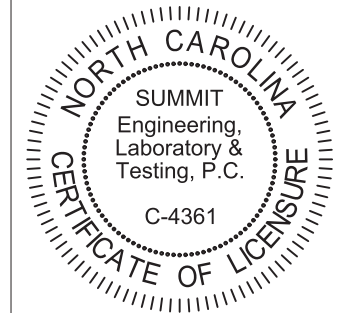
STRUCTURAL STEEL:

- 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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SUITE 171, RALEIGH, NC 27603
OFFICE: 919.380.9991
FAX: 919.380.9993
WWW.SUMMIT-COMPANIES.COM



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

CURRENT DRAWING

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

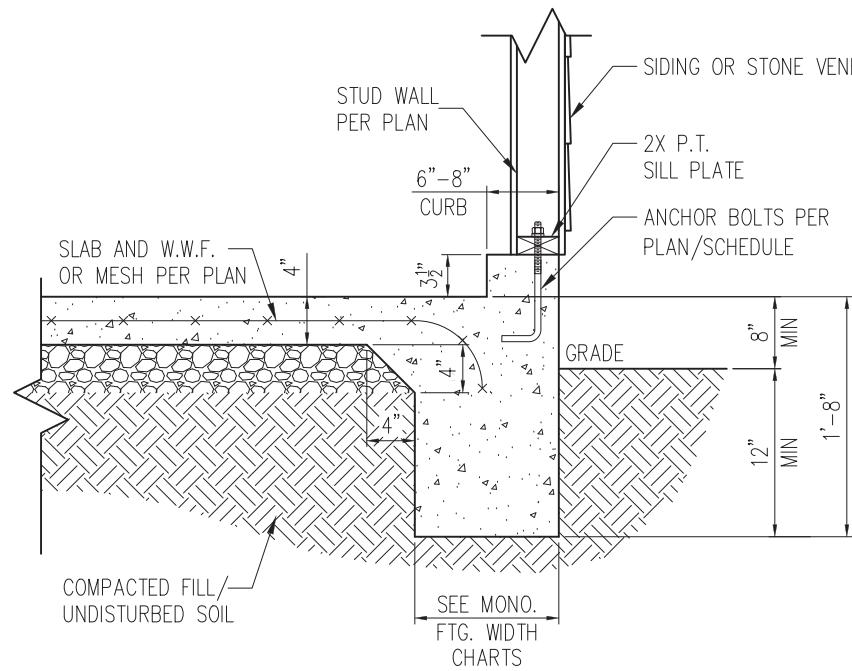
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| NO. | DATE | PROJECT # |
|-----|--------|-----------|
| 0 | 1/7/16 | 3832 |

REFER TO COVER SHEET FOR A COMPLETE LIST OF REVISIONS

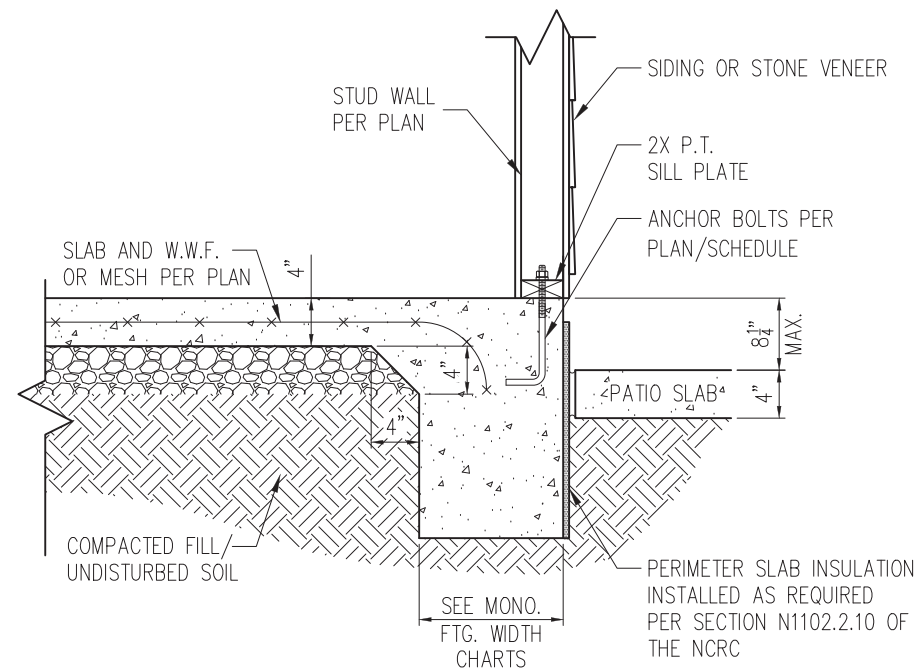
SHEET

CS2



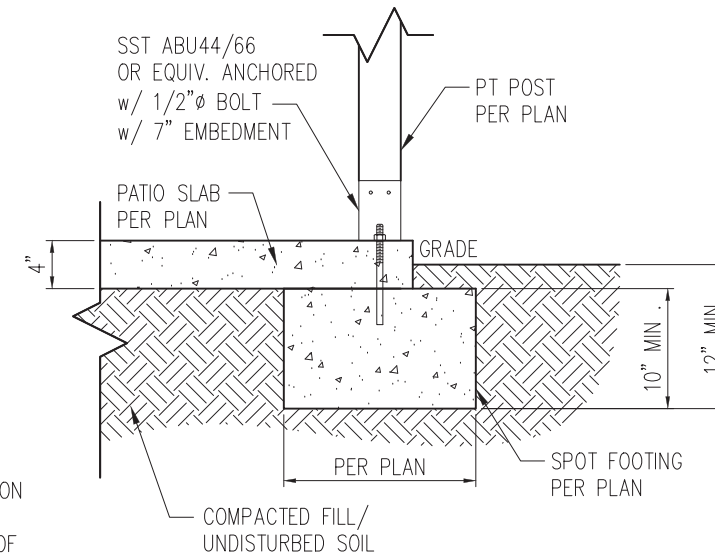
STANDARD - SIDING/STONE

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

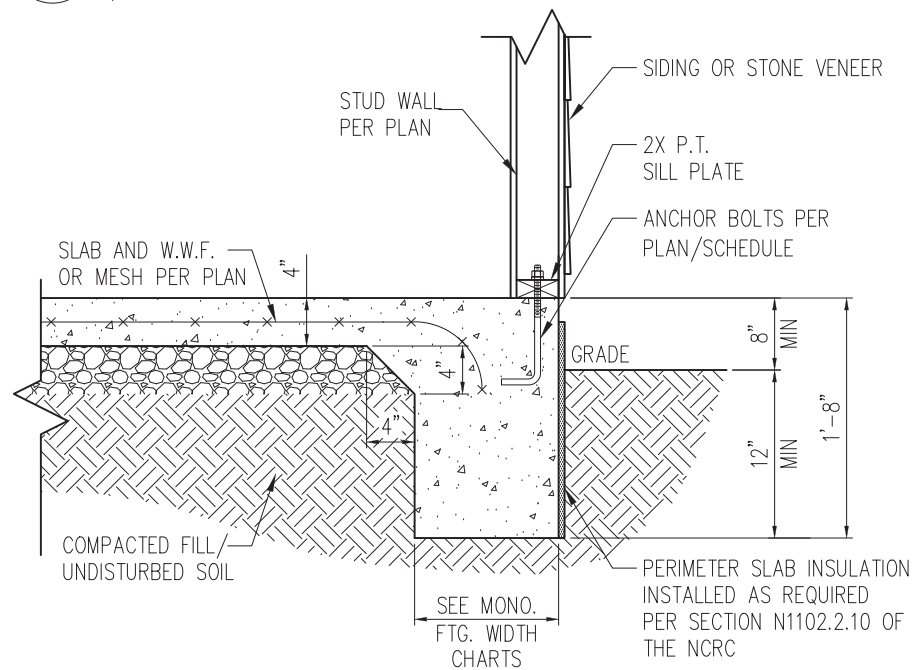


STANDARD - SIDING/STONE

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

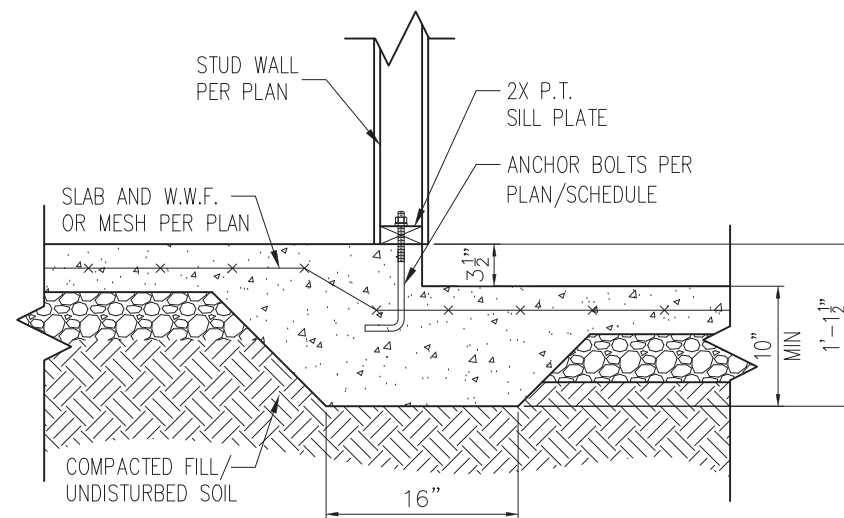


2A COVERED PATIO DETAIL
D1m 3/4" = 1'-0"



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 |

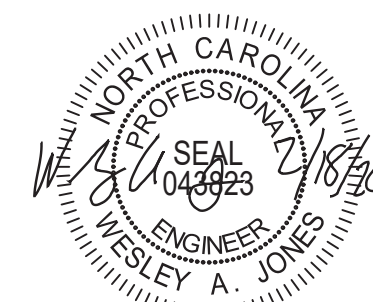
NOTE: INSTALL ALL ANCHORS 12" MAX. FROM ALL BOTTOM PLATE ENDS AND JOINTS.

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" |

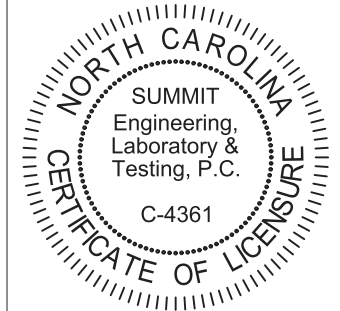
*5" BRICK LEDGE HAS BEEN ADDED TO THE MONOLITHIC FOOTING WIDTH FOR BRICK SUPPORT

- 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.



STRUCTURAL MEMBERS ONLY

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



PROJECT
Standard Details
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

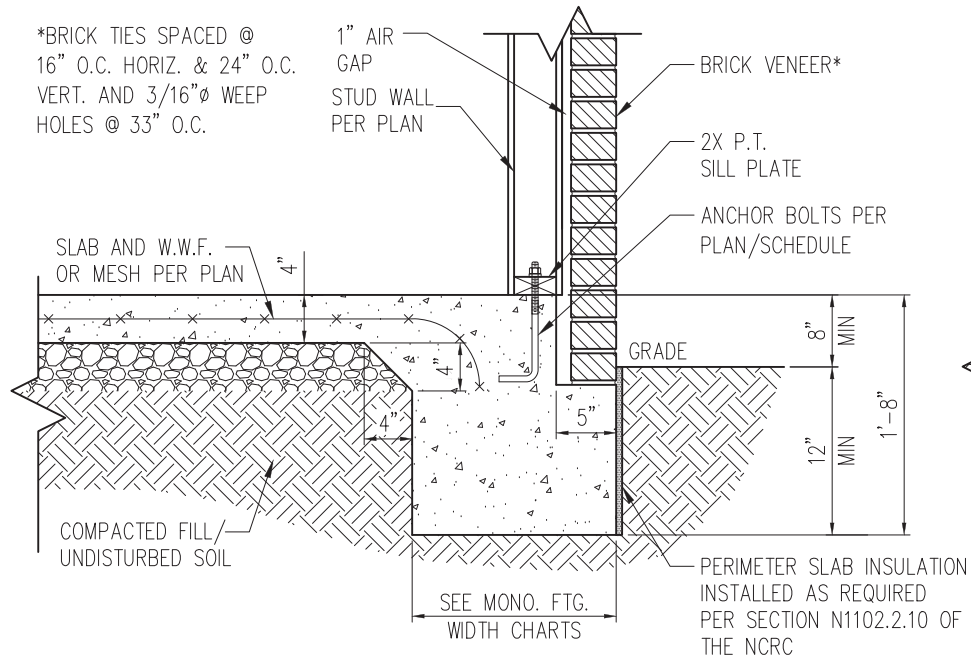
ORIGINAL DRAWING
NO. DATE PROJECT #
0 1/7/16 3832

REFER TO COVER SHEET FOR A COMPLETE LIST OF REVISIONS

SHEET

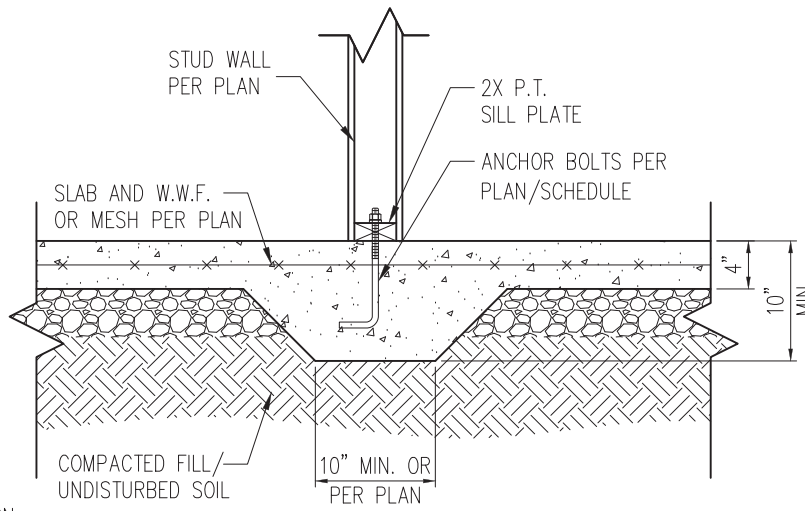
D1m

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



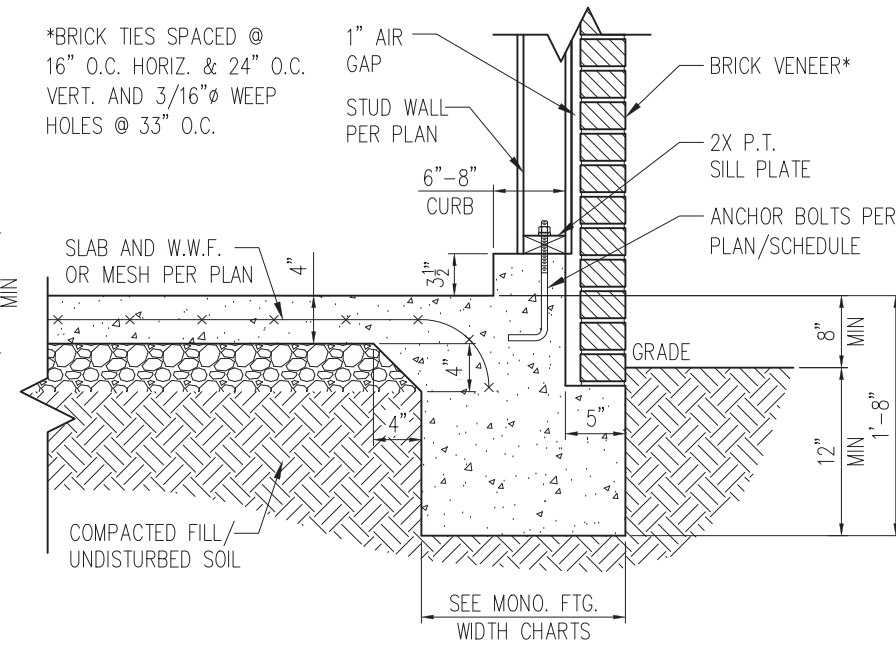
STANDARD - BRICK

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



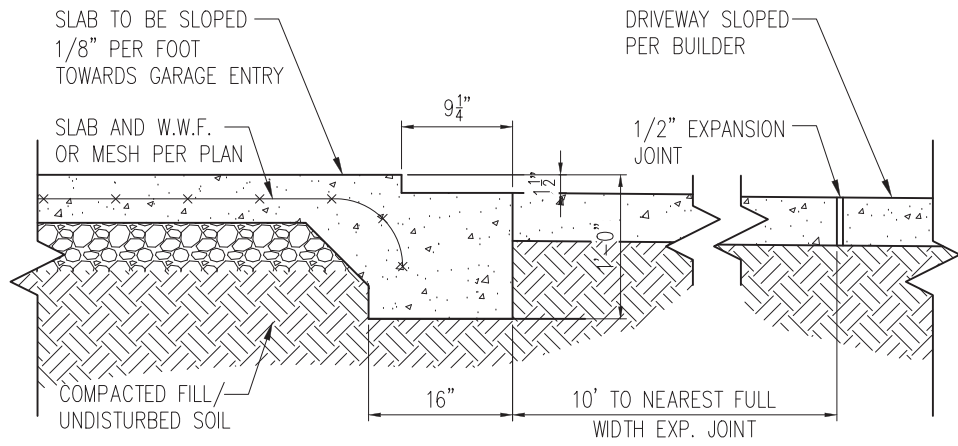
3 TYP. THICKENED SLAB DETAIL
D2m 3/4" = 1'-0"

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

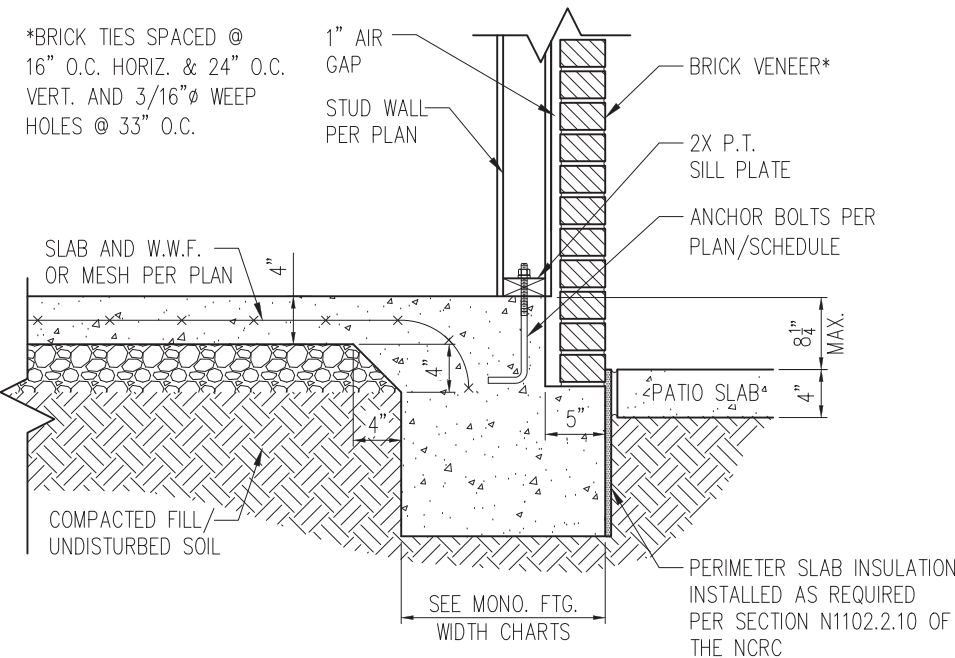


STANDARD - BRICK

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"

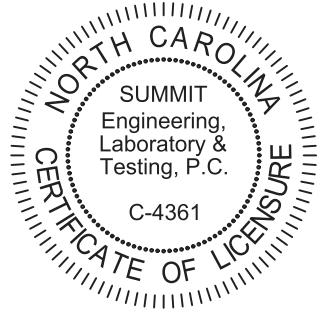
NOTES:

1. REFER TO GENERAL NOTES & SPECIFICATIONS ON SHEET CS2 FOR ADDITIONAL INFORMATION.
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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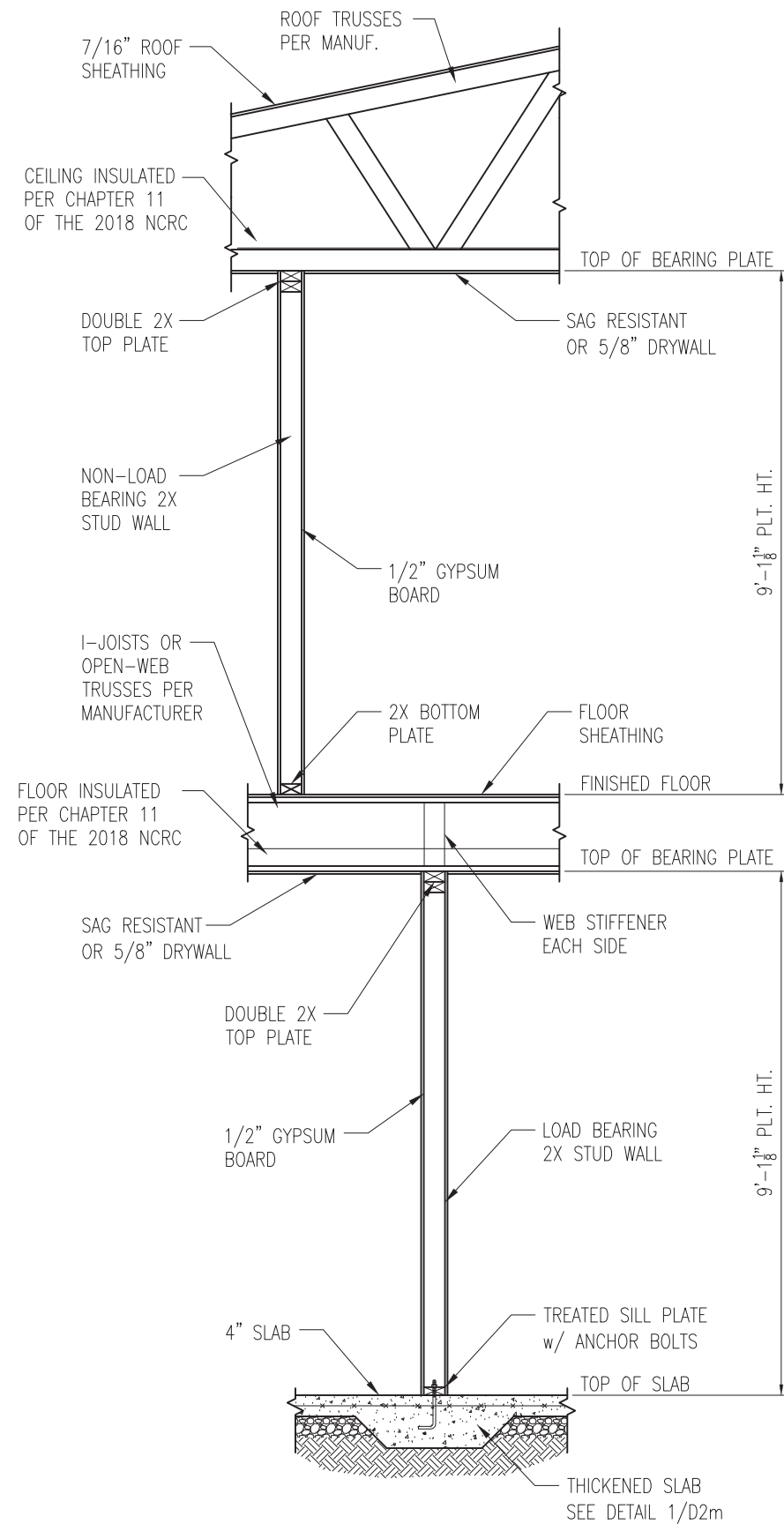
PROJECT
Standard Details
Monolithic Slab Details
CLIENT
Smith Douglas Homes
110 Village Trail, Suite 215
Woodstock, GA 30188

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

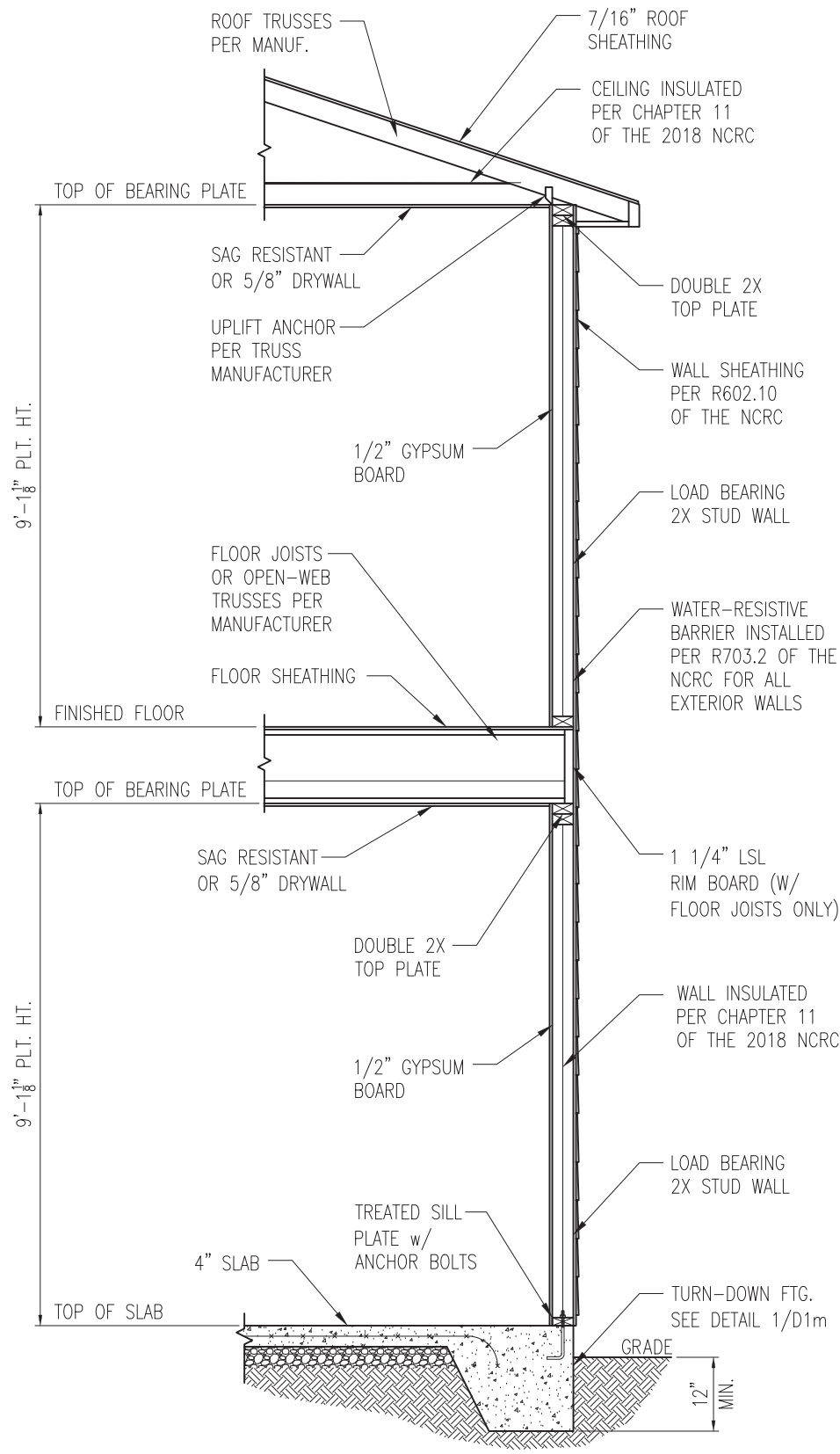
ORIGINAL DRAWING
NO. DATE PROJECT #
0 1/7/16 3832

REFER TO COVER SHEET FOR A COMPLETE LIST OF REVISIONS

SHEET
D2m



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

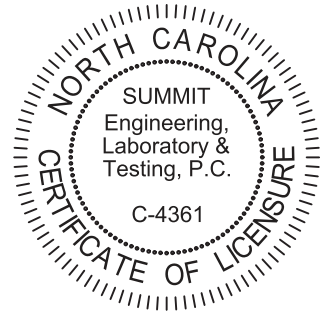


2 TYP. EXTERIOR LOAD BEARING WALL SECTION
 D3m 3/4" = 1'-0"
 -SIMILAR w/ BRICK AND STONE
 -BRICK TIES SPACED @ 16" O.C. HORIZ. & 24" O.C. VERT.
 -MIN. 3/16" Ø WEEP HOLES @ 33" O.C.

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



STRUCTURAL MEMBERS ONLY



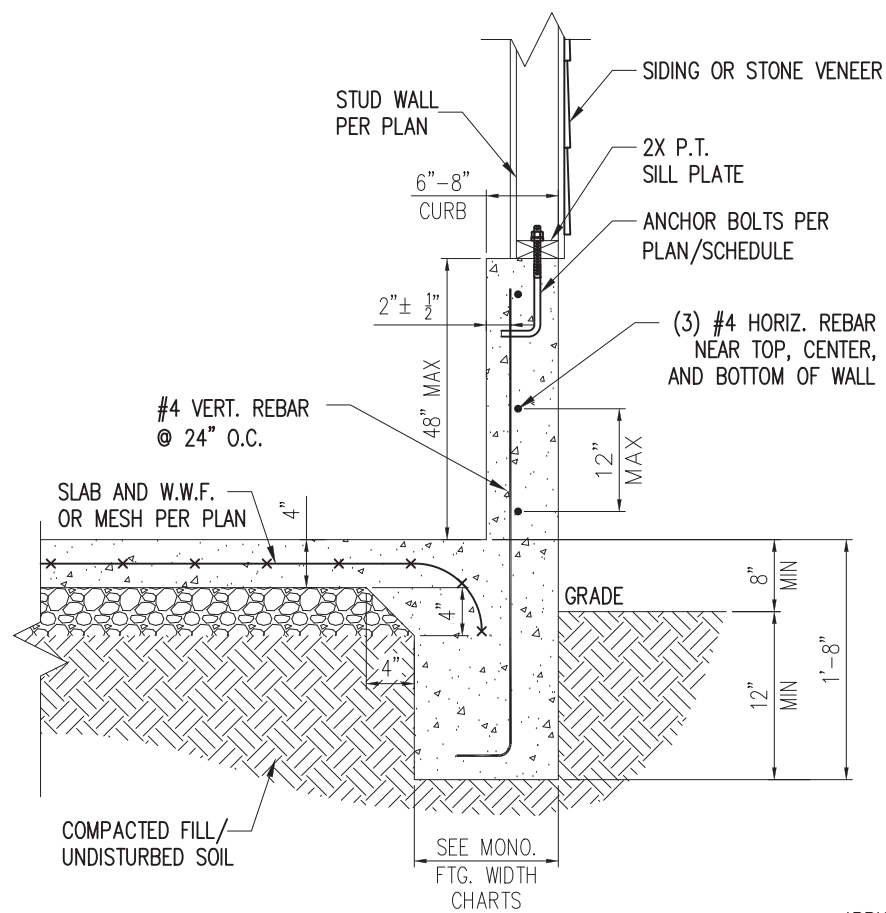
PROJECT
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Smith Douglas Homes
 110 Village Trail, Suite 215
 Woodstock, GA 30188

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

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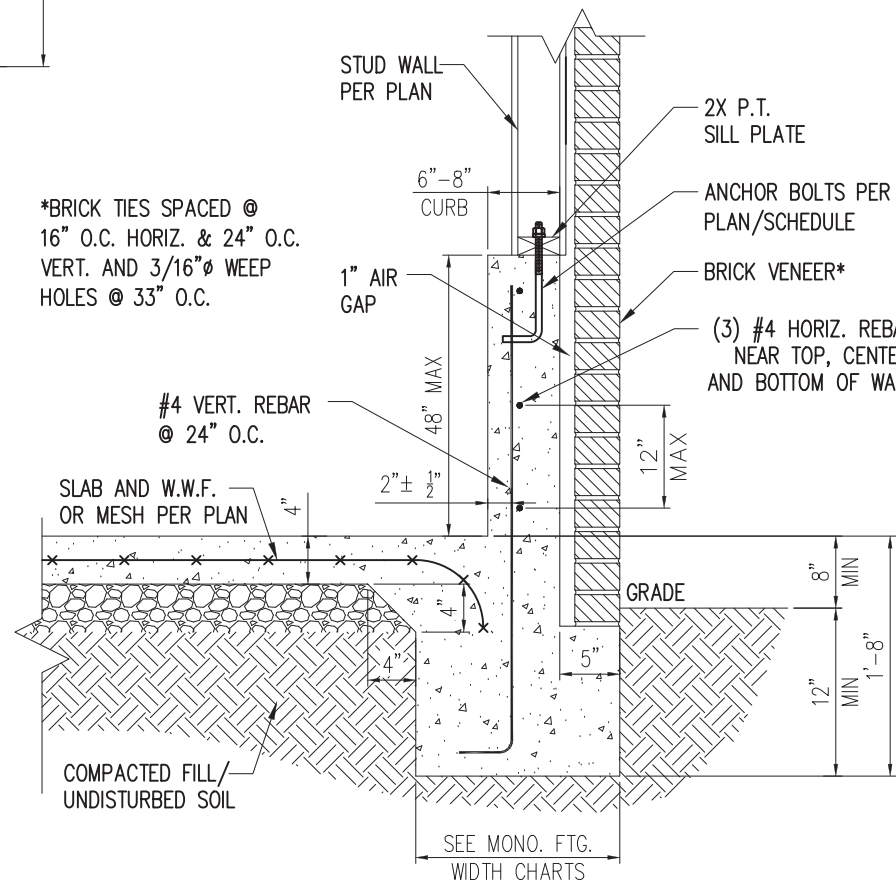
SHEET
D3m



STANDARD - SIDING/STONE

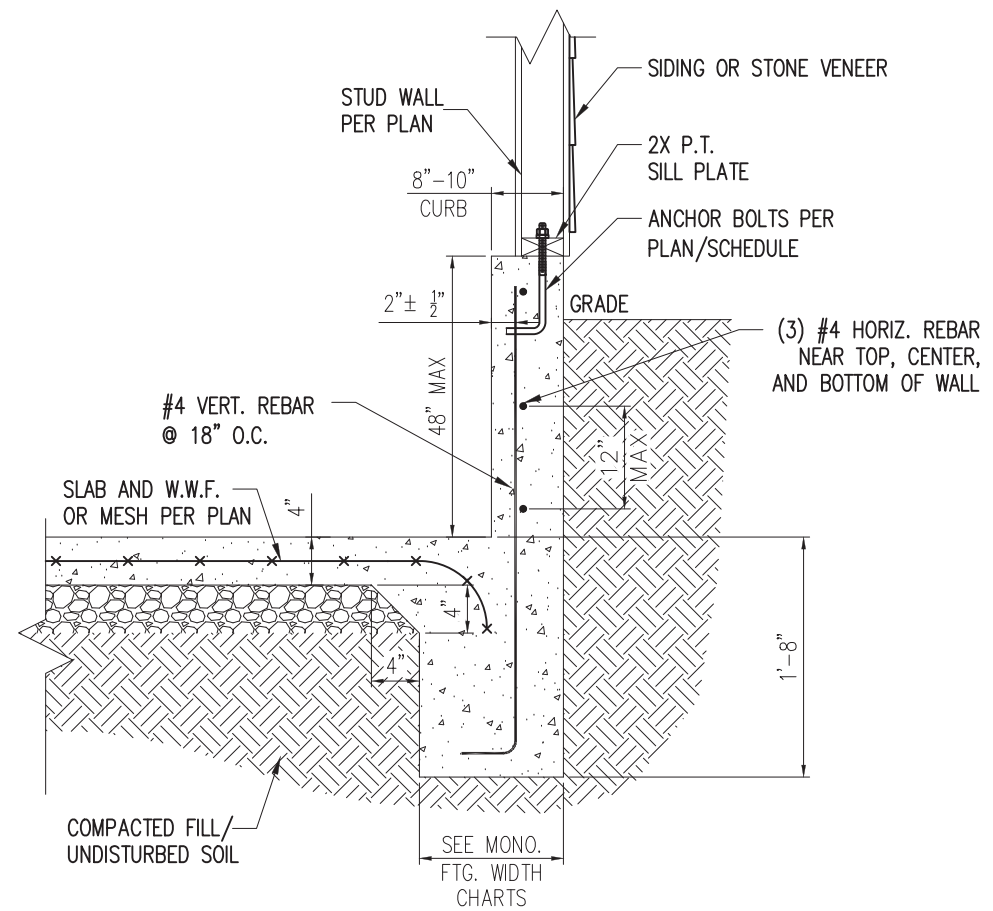
1 EXTENDED GARAGE CURB DETAIL
D4m NTS

*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



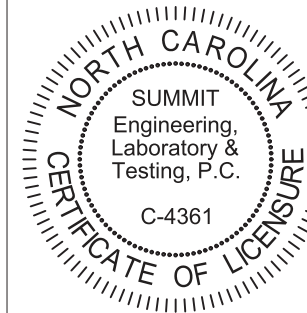
STANDARD - SIDING/STONE

2 EXTENDED GARAGE CURB DETAIL
W/ UNBALANCED FILL
D4m NTS



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FAX: 919.380.9993
WWW.SUMMIT-COMPANIES.COM



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

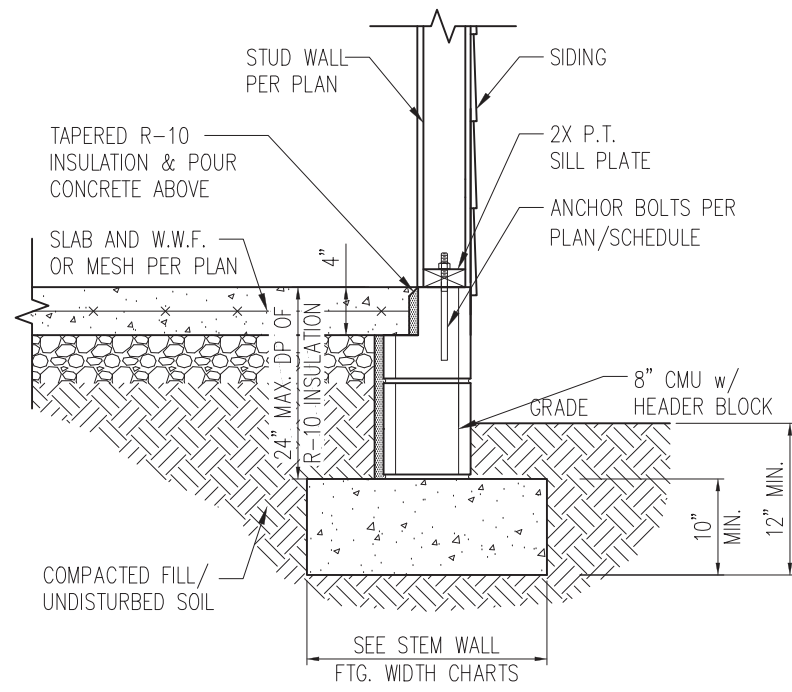
CURRENT DRAWING
DATE: 2/18/20
SCALE: NTS
PROJECT #: 3832
DRAWN BY: LBV
CHECKED BY: WAJ

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

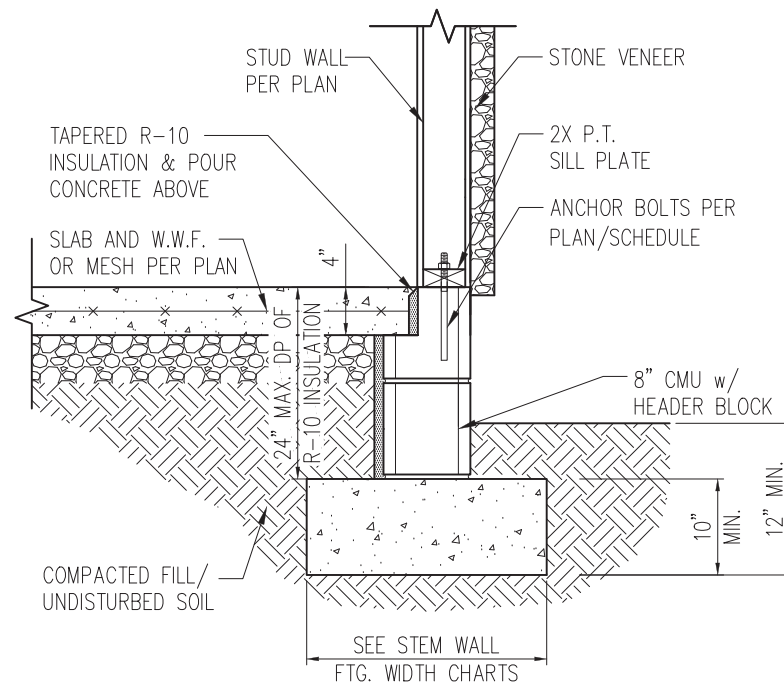
REFER TO COVER SHEET FOR A
COMPLETE LIST OF REVISIONS

SHEET

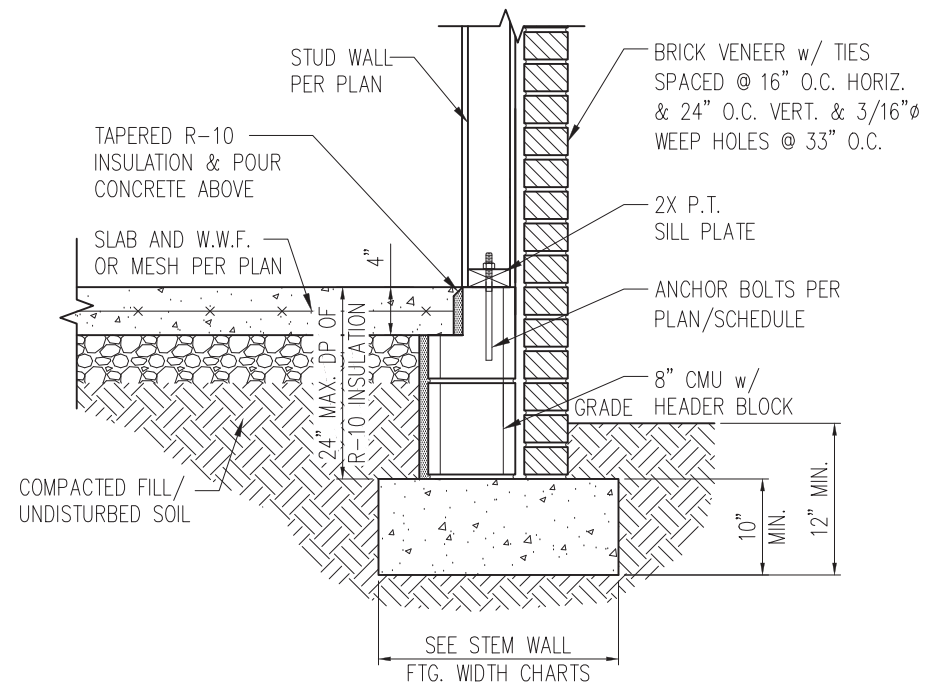
D4m



STANDARD - SIDING

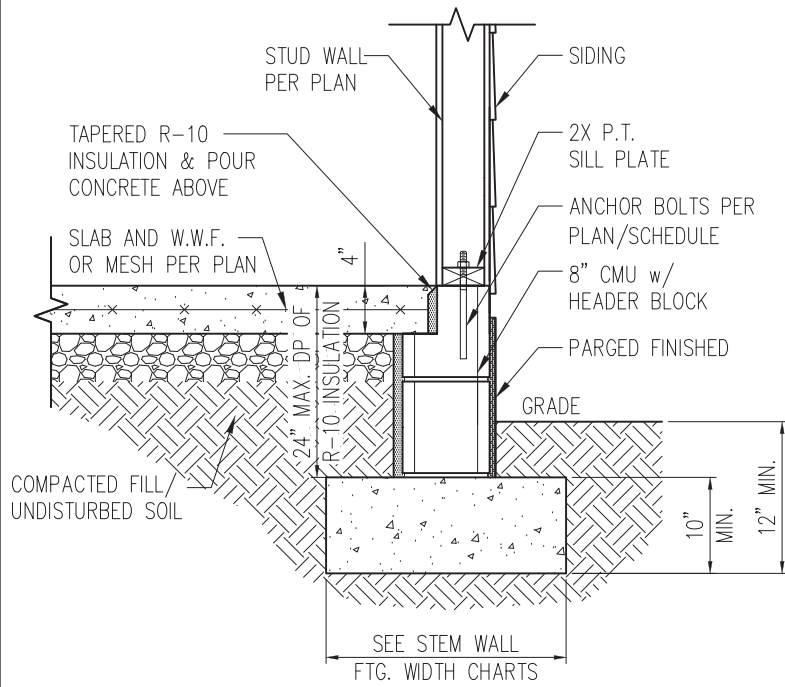


STANDARD - STONE

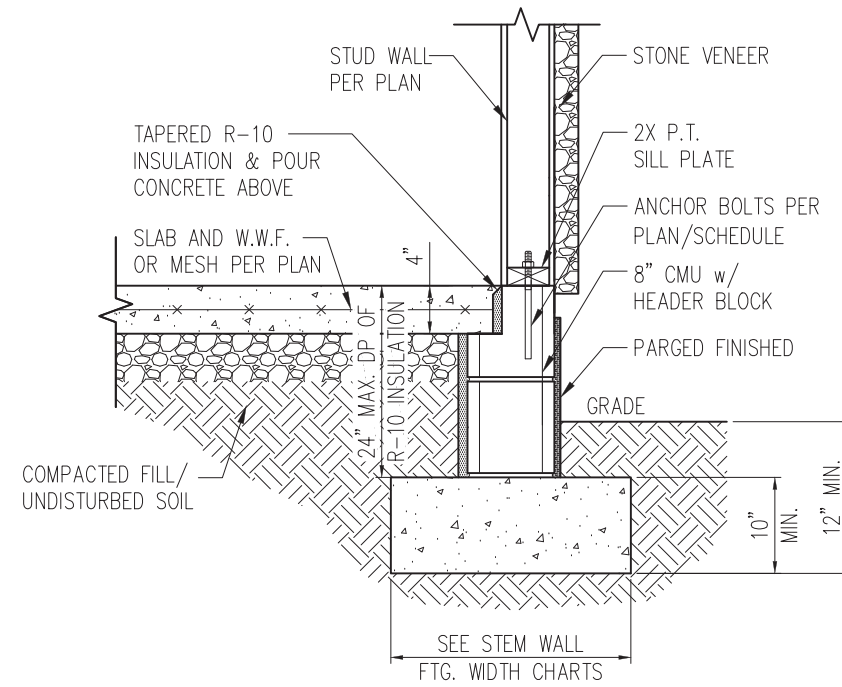


STANDARD - BRICK

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

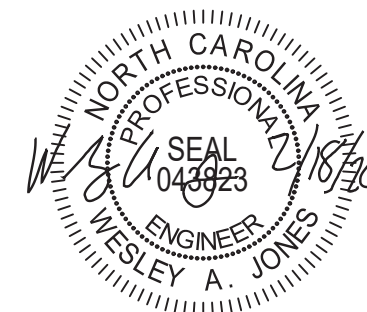
WALL ANCHOR SCHEDULE

| 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.

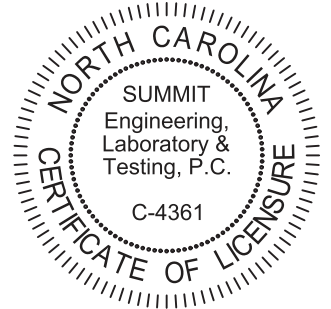
NOTES:

- 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, 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

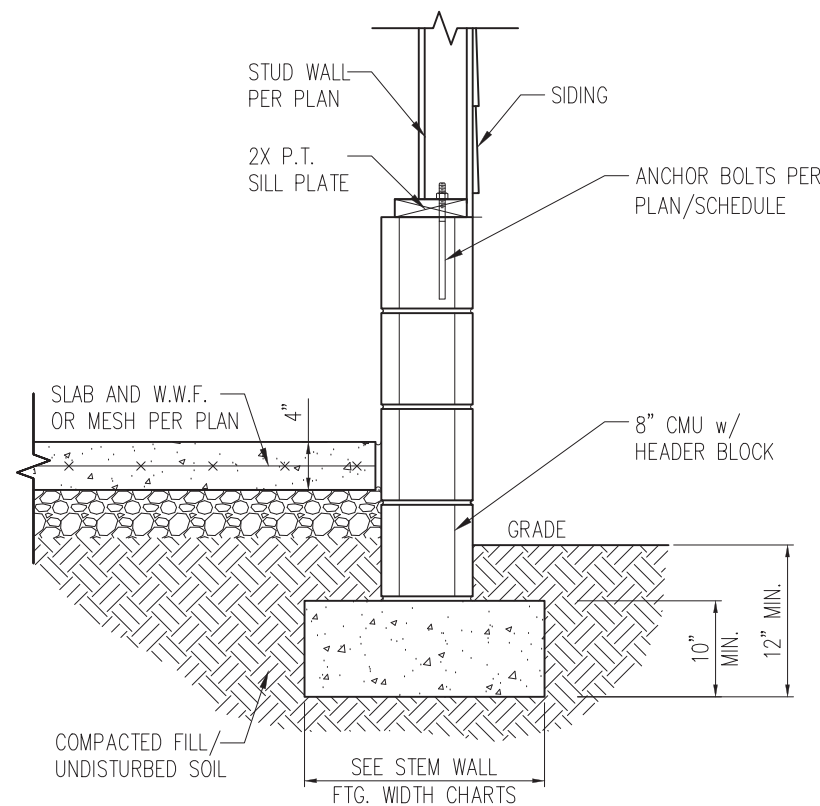
ORIGINAL DRAWING

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

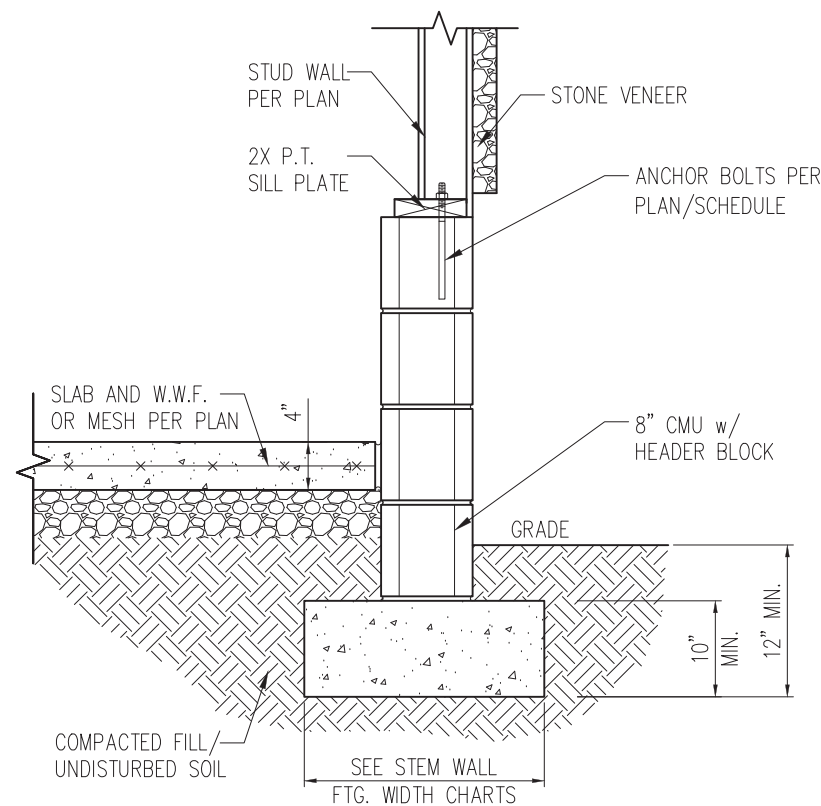
REFER TO COVER SHEET FOR A COMPLETE LIST OF REVISIONS

SHEET

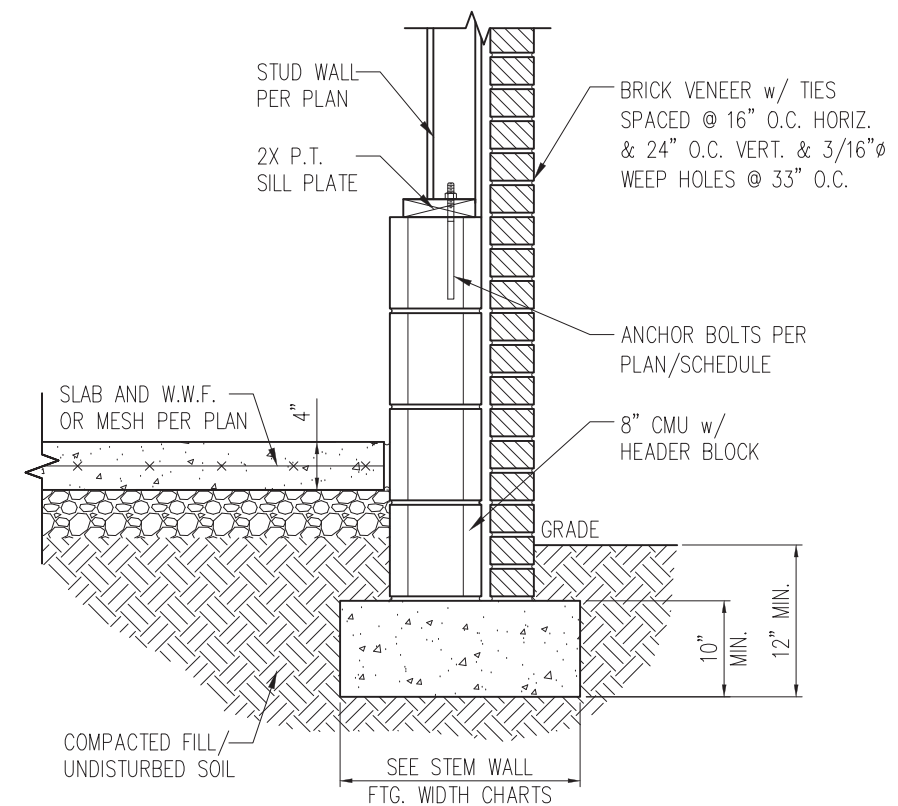
D1s



STANDARD - SIDING

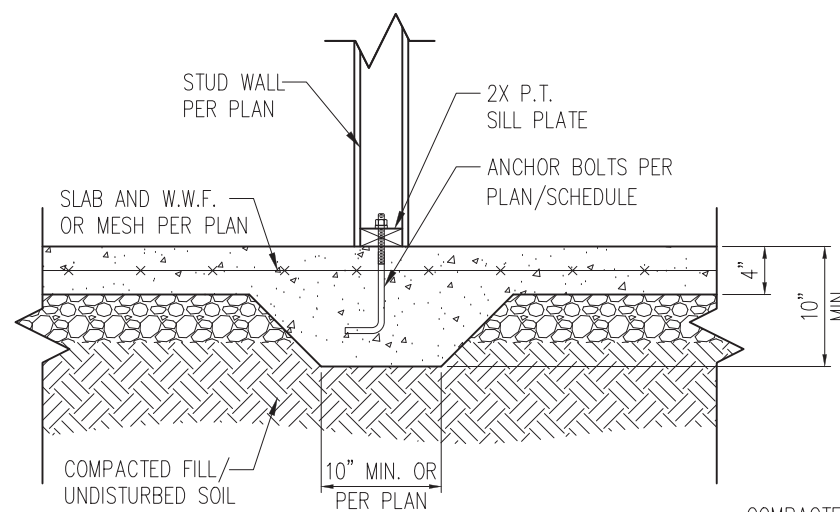


STANDARD - STONE

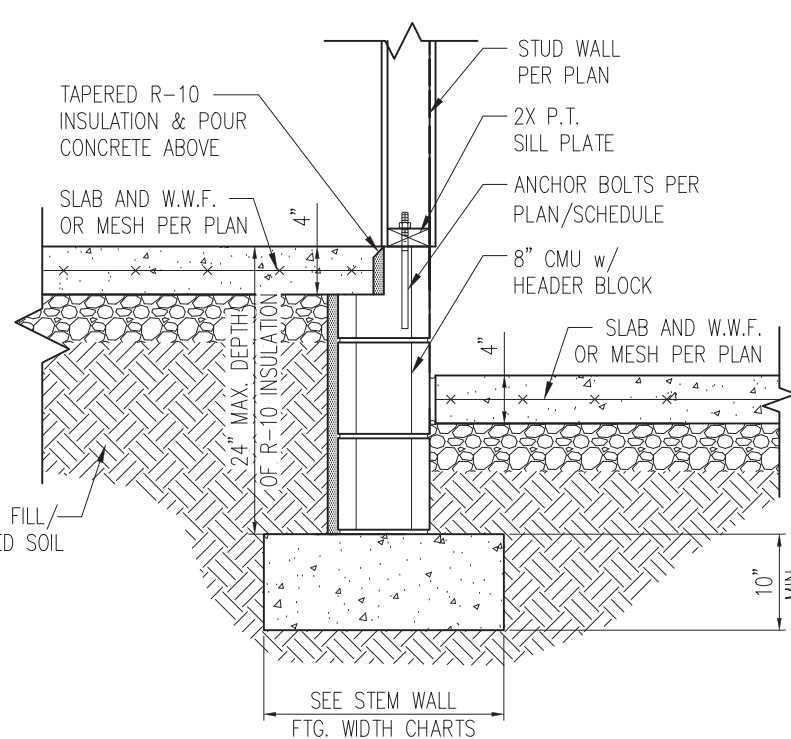


STANDARD - BRICK

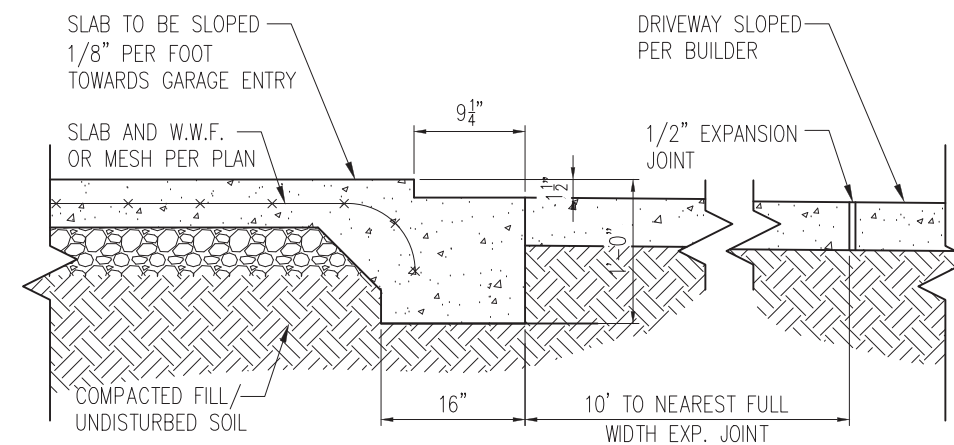
1 TYP. GARAGE CURB DETAIL
D2s 3/4" = 1'-0"



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

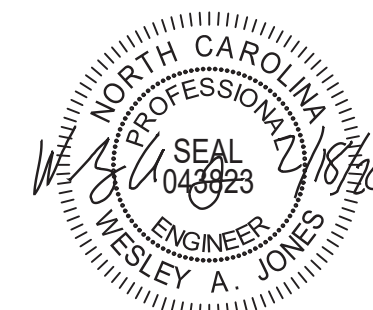


3 HOUSE/GARAGE WALL DETAIL
D2s 3/4" = 1'-0"



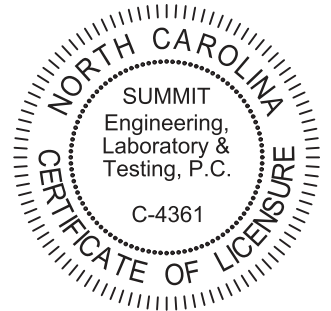
4 SLAB AT GARAGE DOOR
D2s 3/4" = 1'-0"

- NOTES:
- 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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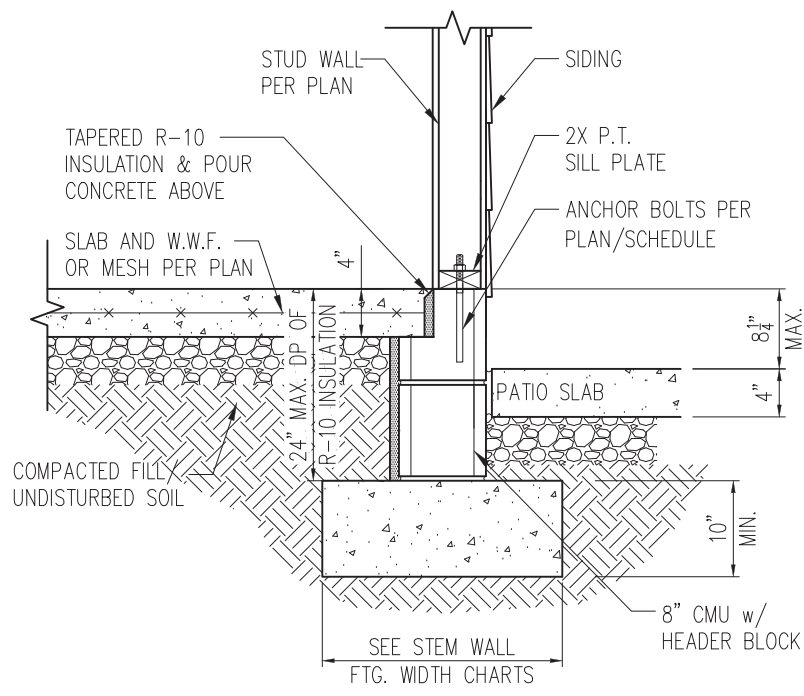


PROJECT
Standard Details
Stemwall Details
CLIENT
Smith Douglas Homes
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Woodstock, GA 30188

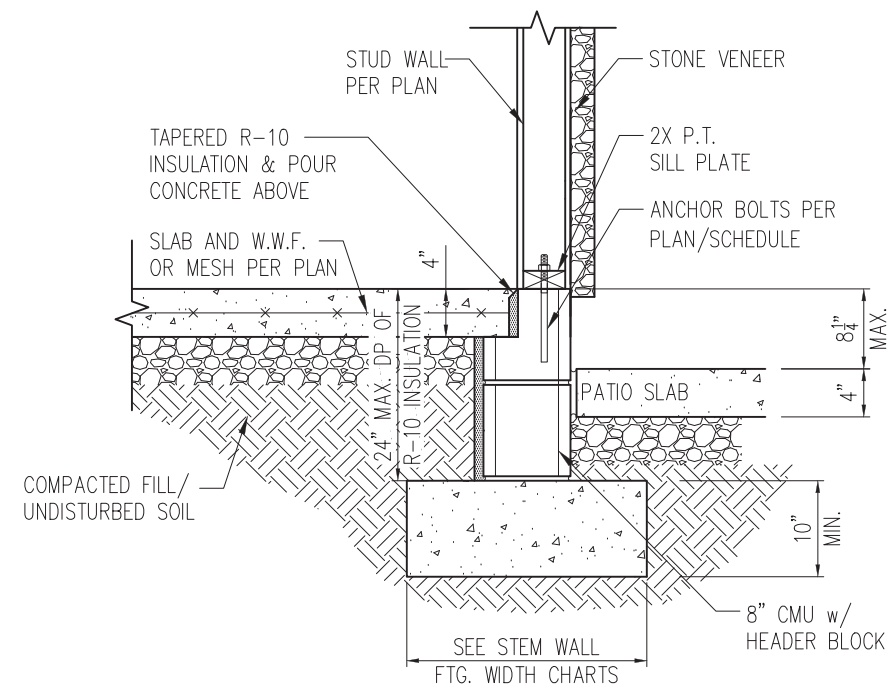
| | | |
|------------------|--------|-----------|
| CURRENT DRAWING | | |
| DATE: 2/18/20 | | |
| SCALE: NTS | | |
| PROJECT #: 3832 | | |
| DRAWN BY: LBV | | |
| CHECKED BY: WAJ | | |
| ORIGINAL DRAWING | | |
| NO. | DATE | PROJECT # |
| 0 | 1/7/16 | 3832 |

REFER TO COVER SHEET FOR A COMPLETE LIST OF REVISIONS

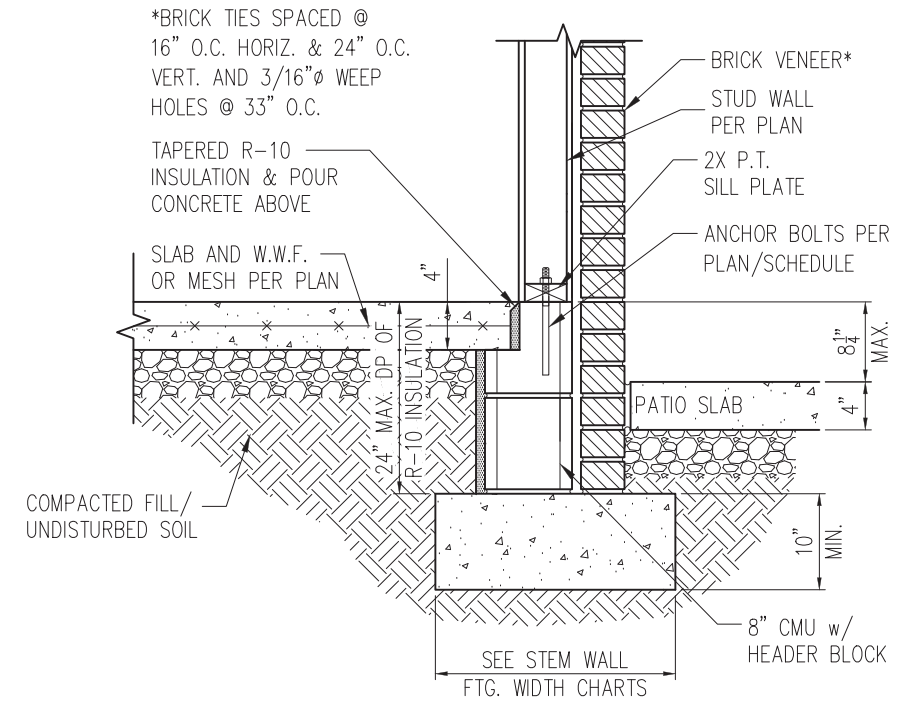
SHEET
D2s



STANDARD - SIDING

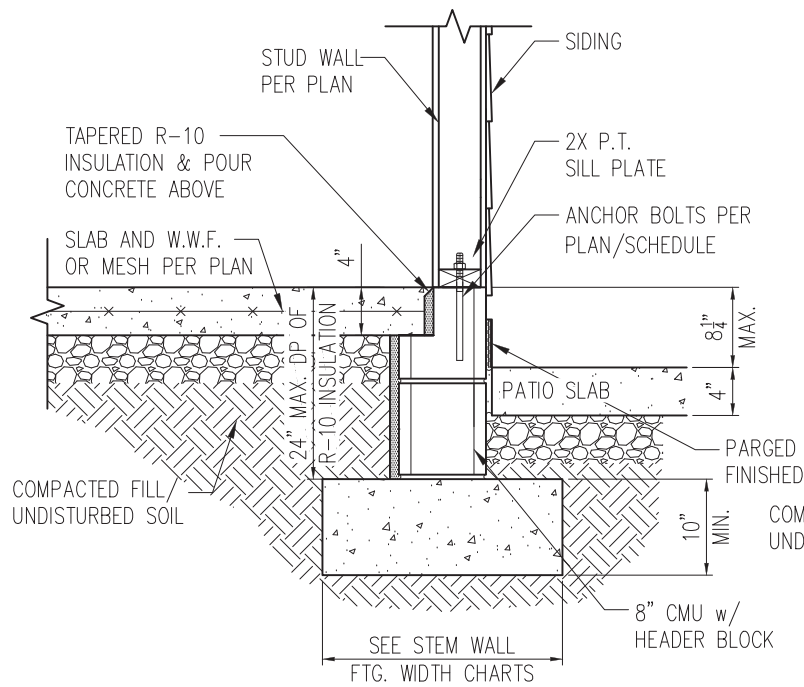


STANDARD - STONE

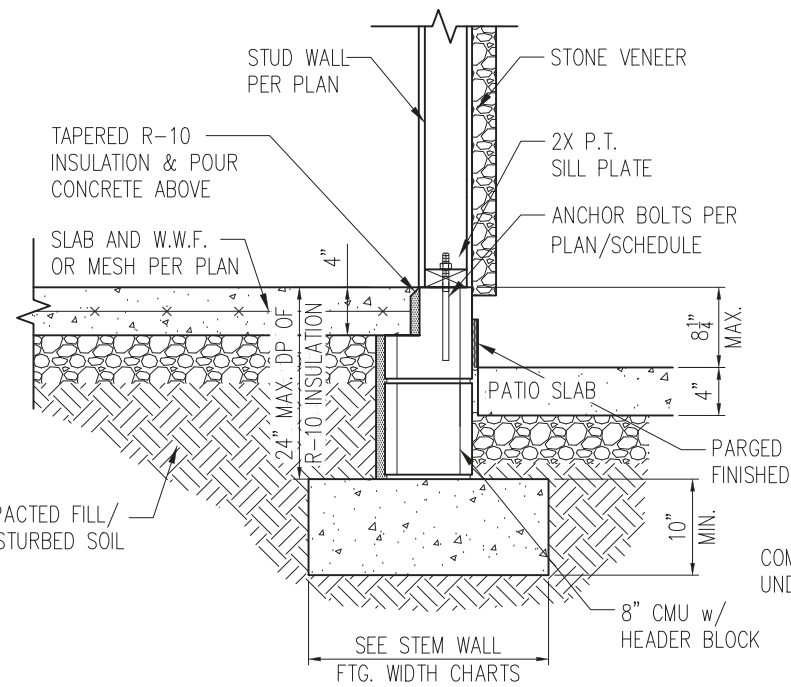


STANDARD - BRICK

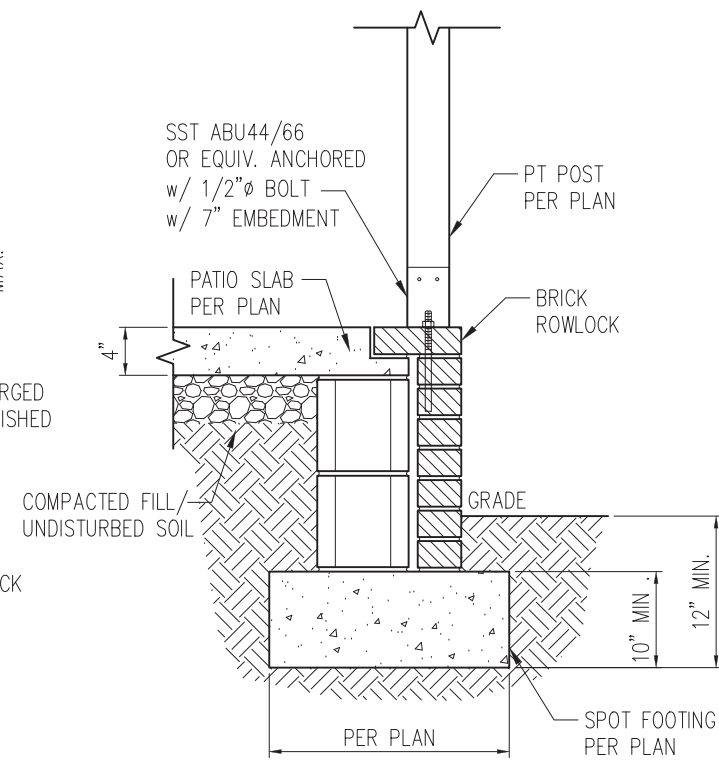
1 PORCH SLAB DETAIL
D3s 3/4" = 1'-0"



STANDARD - SIDING

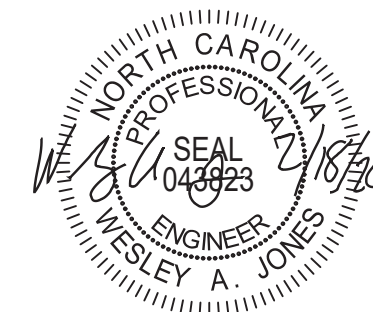


STANDARD - STONE



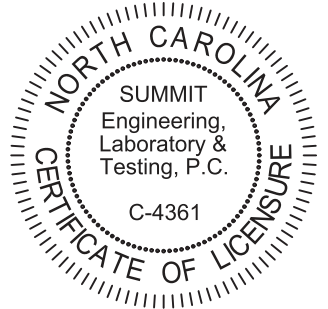
2 COVERED PORCH DETAIL
D3s 3/4" = 1'-0"

- NOTES:
1. REFER TO GENERAL NOTES & SPECIFICATIONS ON SHEET CS2 FOR ADDITIONAL INFORMATION.
 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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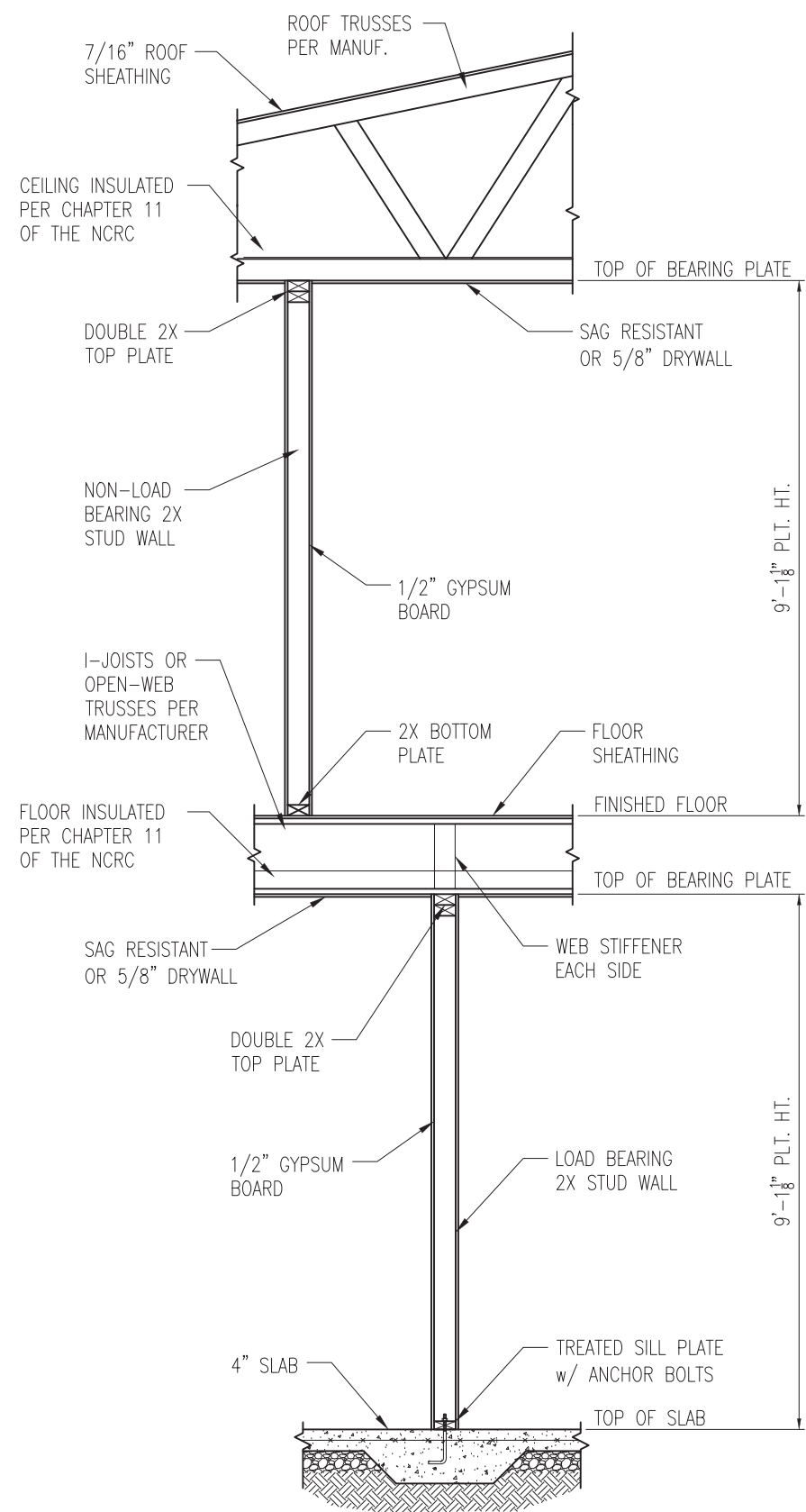
PROJECT
Standard Details
Stemwall Details
CLIENT
Smith Douglas Homes
110 Village Trail, Suite 215
Woodstock, GA 30188

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

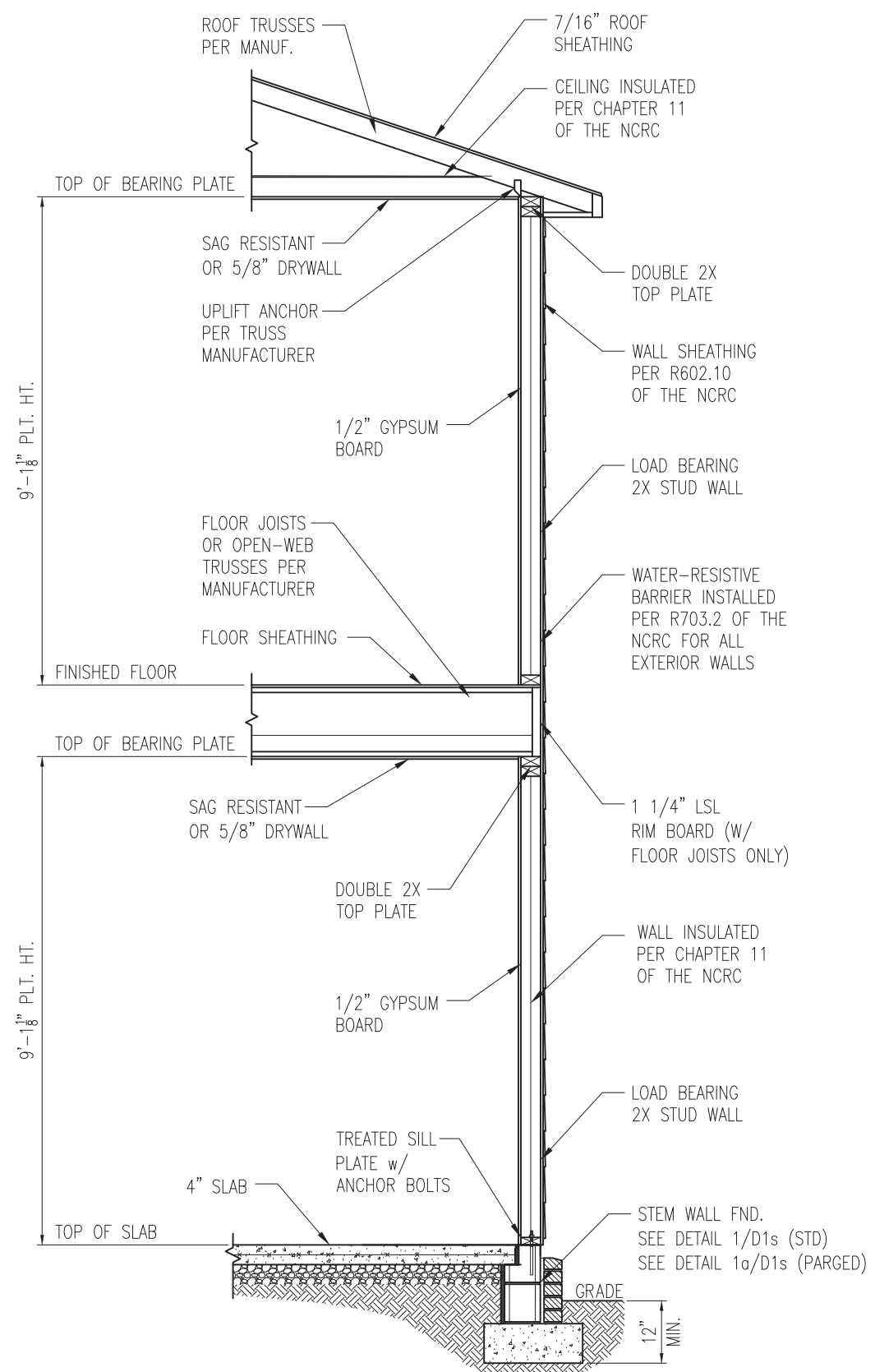
ORIGINAL DRAWING
NO. DATE PROJECT #
0 1/7/16 3832

REFER TO COVER SHEET FOR A COMPLETE LIST OF REVISIONS

SHEET
D3s



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



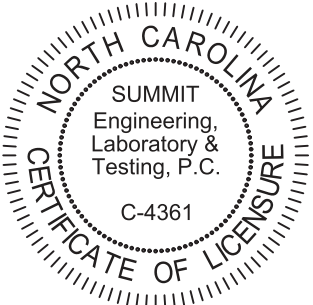
2 TYP. EXTERIOR LOAD BEARING WALL SECTION
 D4s 3/4" = 1'-0"
 -SIMILAR w/ BRICK AND STONE
 -BRICK TIES SPACED @ 16" O.C. HORIZ. & 24" O.C. VERT.
 -MIN. 3/16" Ø WEEP HOLES @ 33" O.C.

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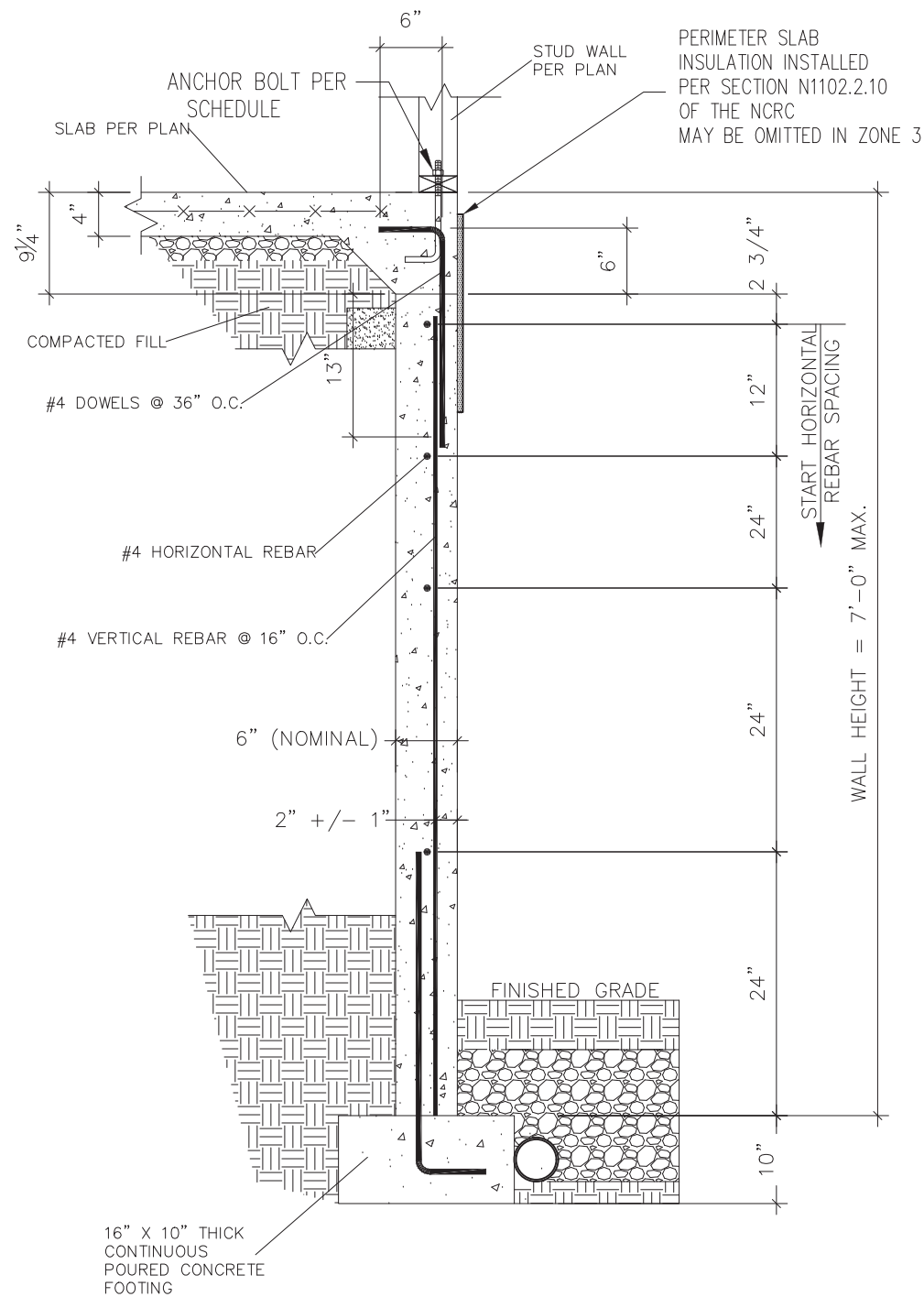
PROJECT
Standard Details
Stemwall Details
 CLIENT
Smith Douglas Homes
 110 Village Trail, Suite 215
 Woodstock, GA 30188

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

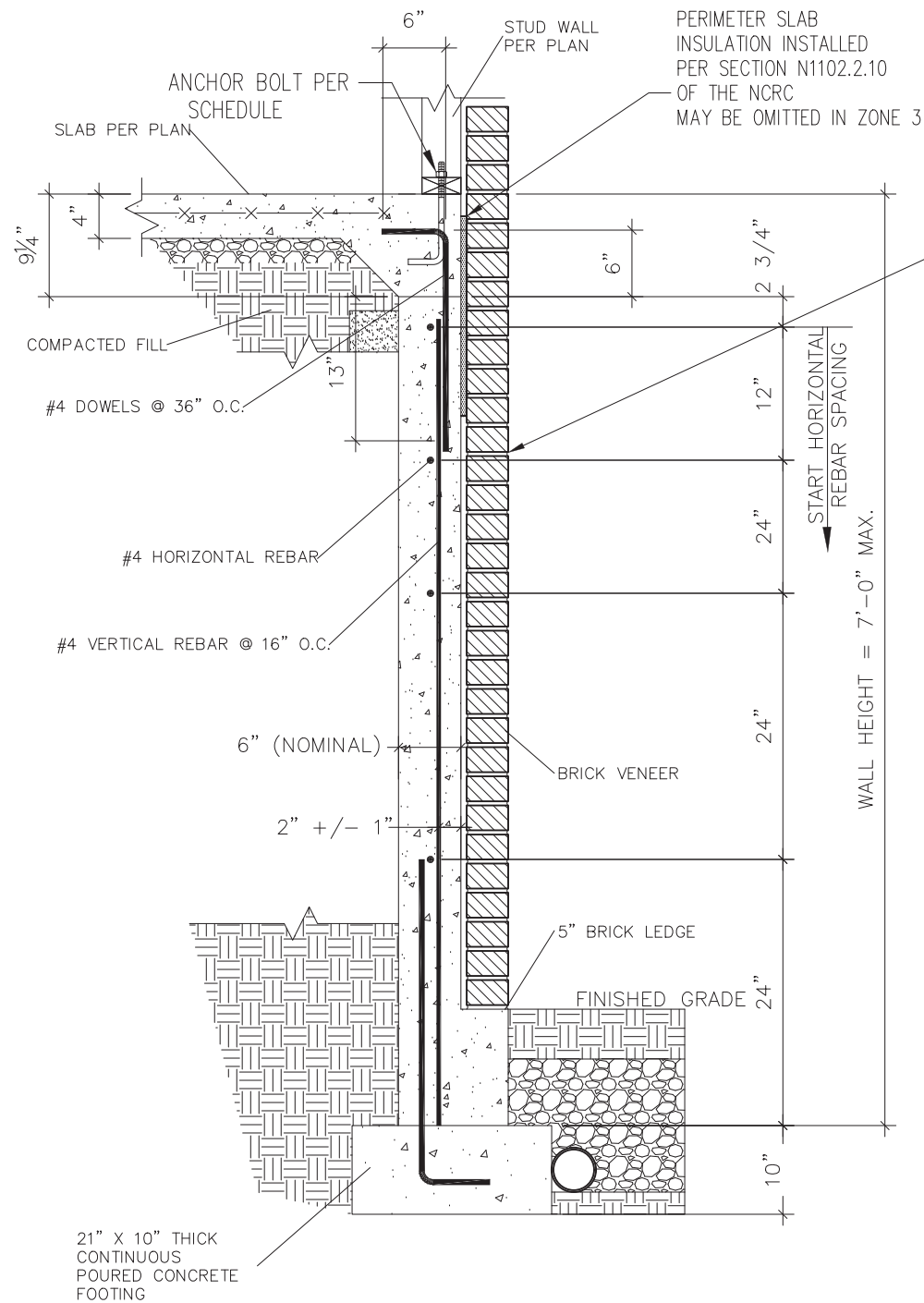
ORIGINAL DRAWING
 NO. DATE PROJECT #
 0 1/7/16 3832

REFER TO COVER SHEET FOR A COMPLETE LIST OF REVISIONS

SHEET
D4s



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



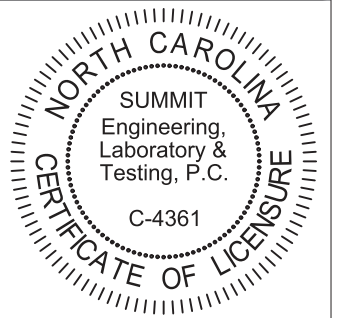
2 SUBWALL FOUNDATION W/ BRICK VENEER
 D5s 3/4" = 1'-0"

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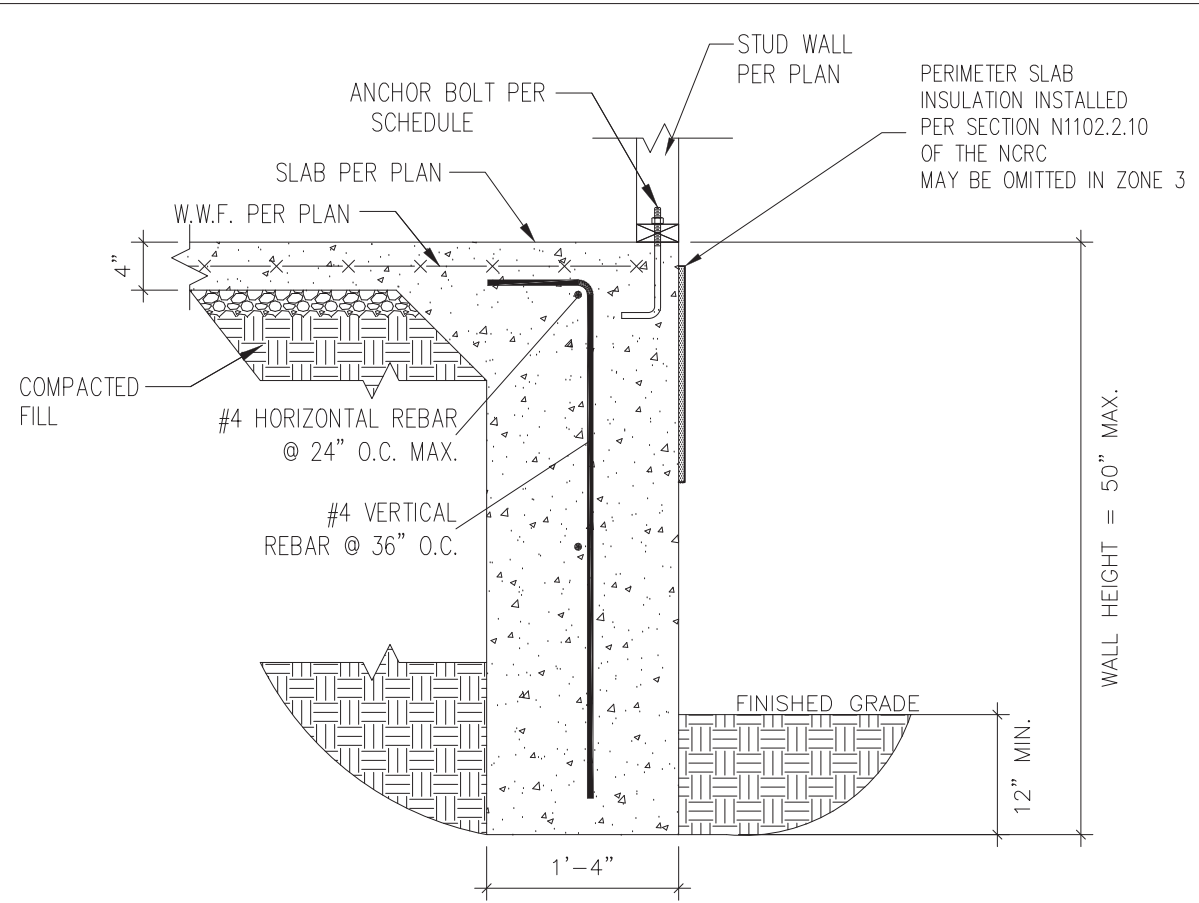
PROJECT
Standard Details
Stemwall Details
 CLIENT
 Smith Douglas Homes
 110 Village Trail, Suite 215
 Woodstock, GA 30188

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

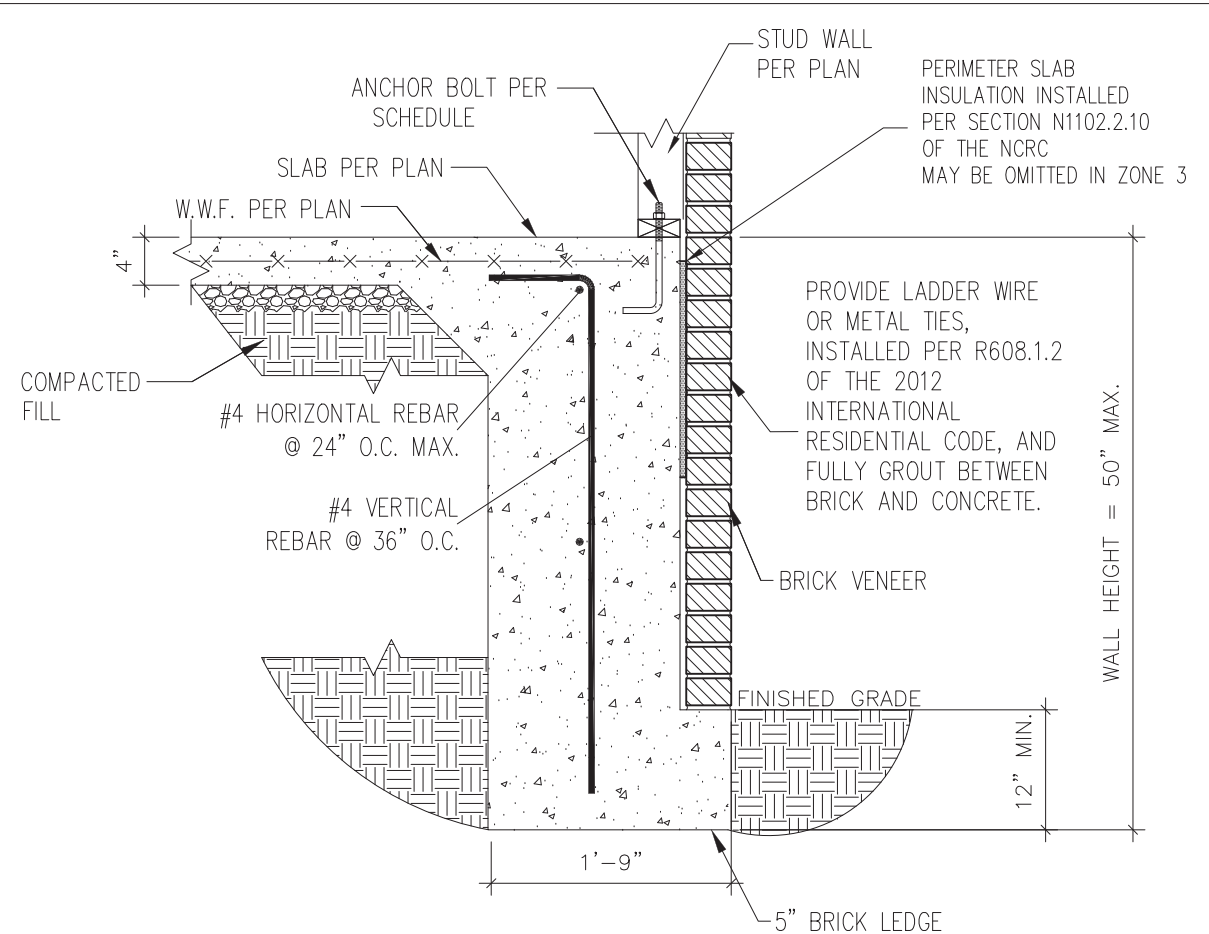
| NO. | DATE | PROJECT # |
|-----|--------|-----------|
| 0 | 1/7/16 | 3832 |

REFER TO COVER SHEET FOR A COMPLETE LIST OF REVISIONS

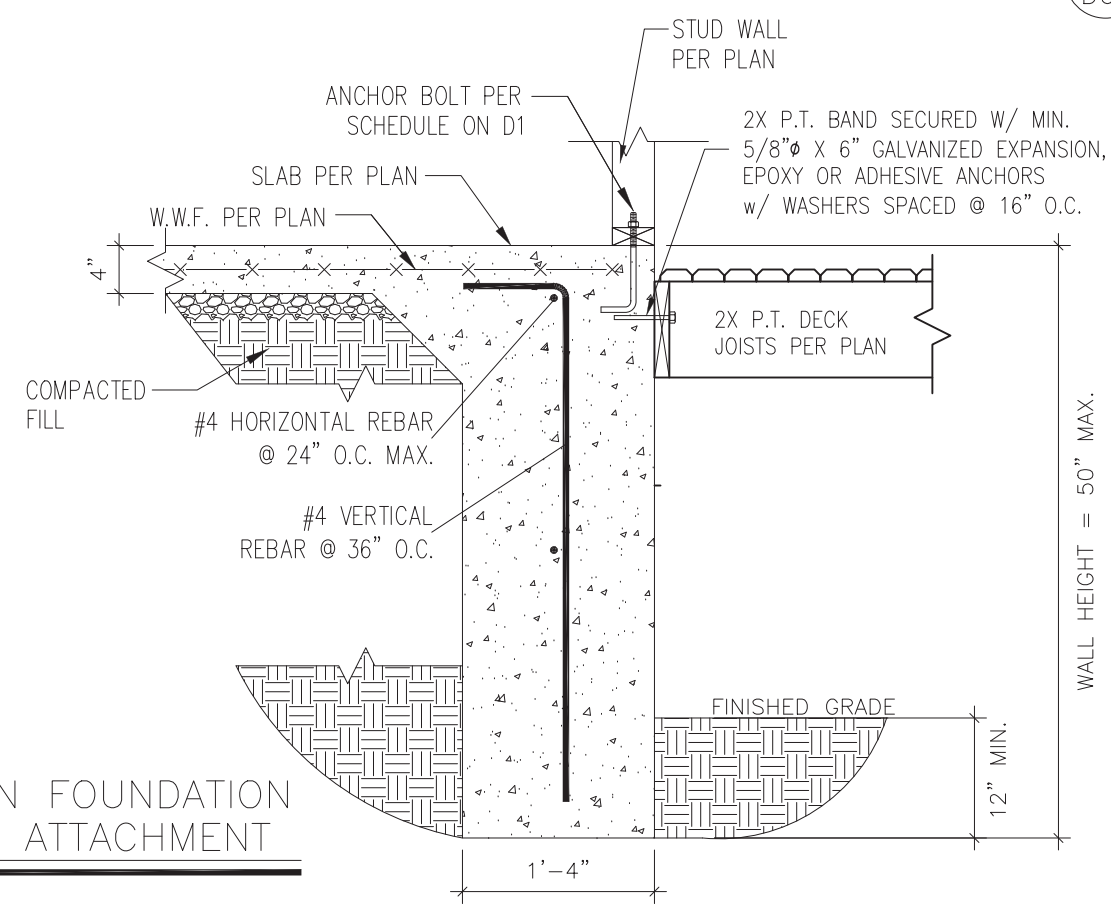
SHEET
D5s



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



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

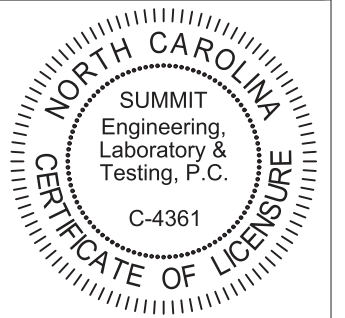


3 TURNDOWN FOUNDATION W/ DECK ATTACHMENT
 D6s 3/4" = 1'-0"



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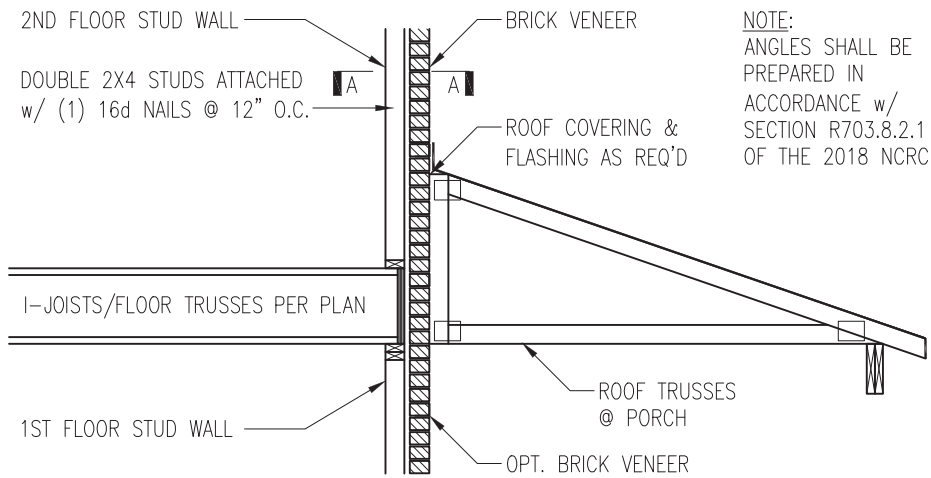
PROJECT
Standard Details
Stemwall Details
 CLIENT
Smith Douglas Homes
 110 Village Trail, Suite 215
 Woodstock, GA 30188

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

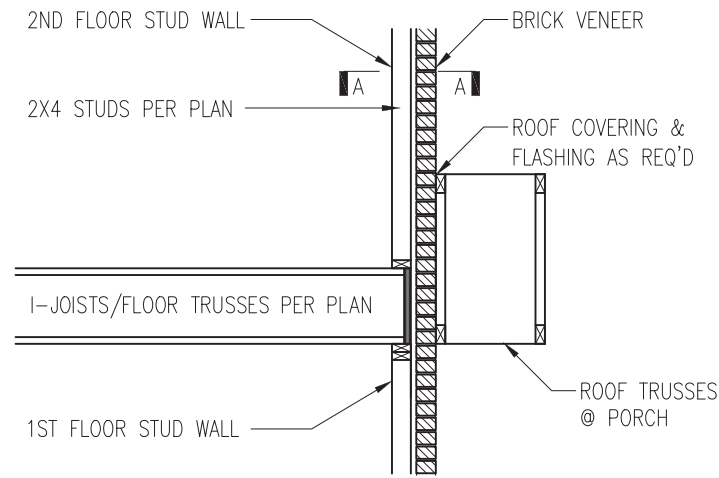
| NO. | DATE | PROJECT # |
|-----|--------|-----------|
| 0 | 1/7/16 | 3832 |

REFER TO COVER SHEET FOR A COMPLETE LIST OF REVISIONS

SHEET
D6s



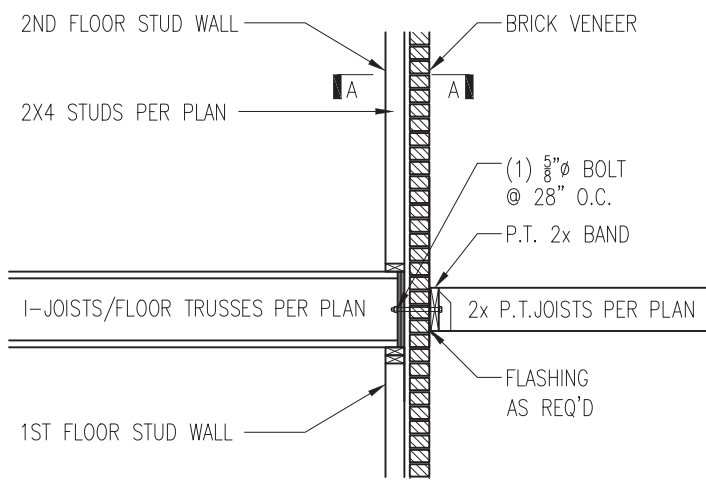
NOTE:
ANGLES SHALL BE
PREPARED IN
ACCORDANCE w/
SECTION R703.8.2.1
OF THE 2018 NCR



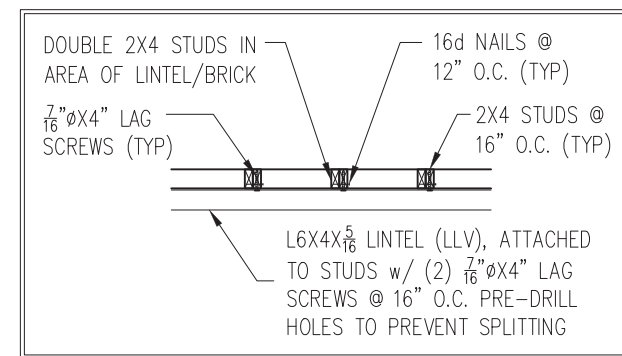
TRUSSES PERPENDICULAR TO STUD WALL

TRUSSES PARALLEL TO STUD WALL
w/ CONTINUOUS BRICK VENEER

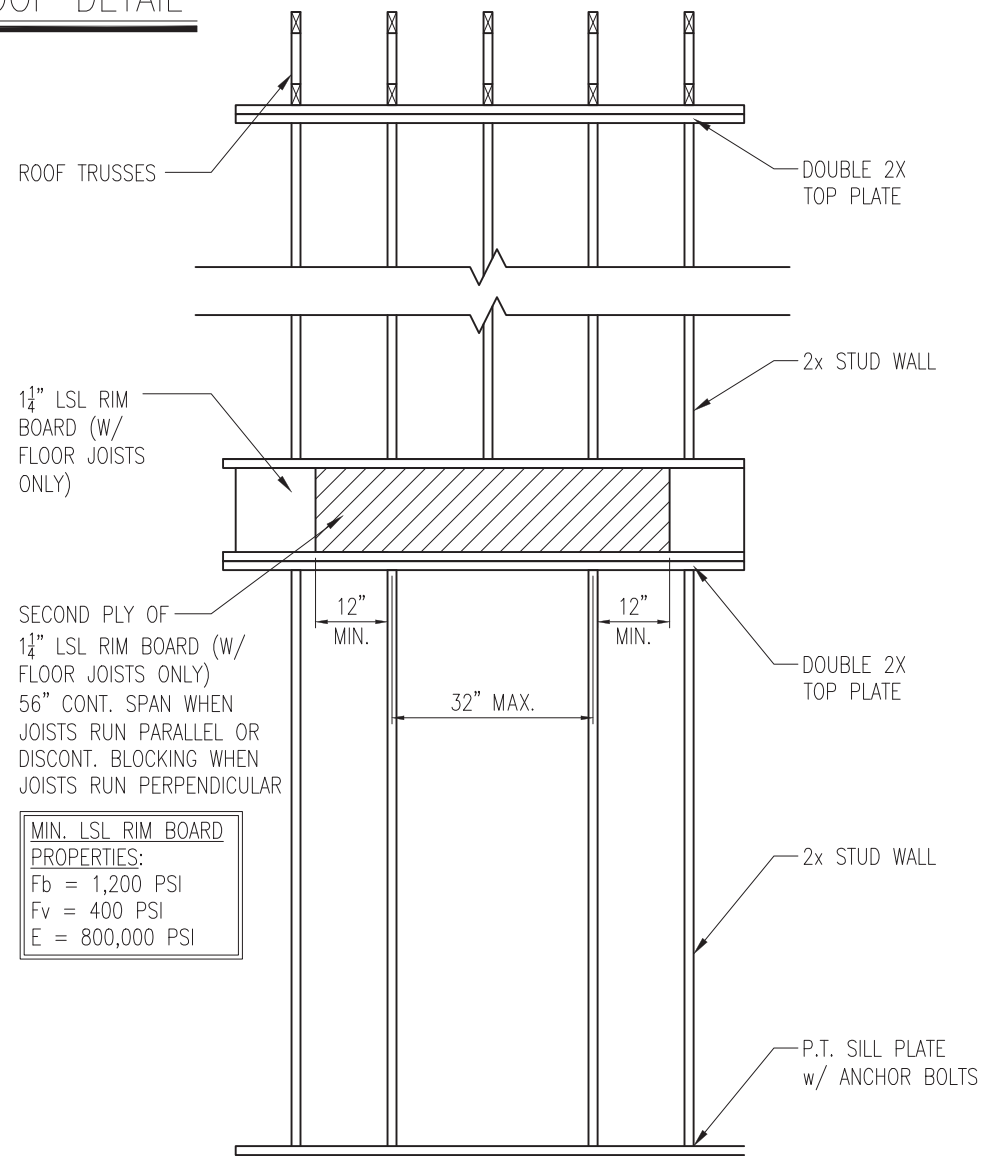
1 BRICK SUPPORT ABOVE STORAGE/PORCH ROOF DETAIL
D5f NTS



3 BALCONY JOIST ATTACHMENT
D5f NTS



SECTION A-A
NTS



SECOND PLY OF
1 1/4\"/>

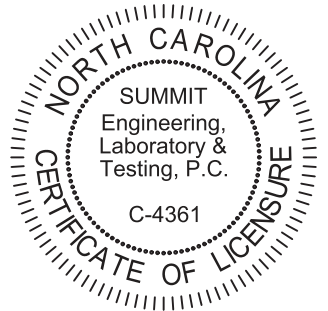
MIN. LSL RIM BOARD
PROPERTIES:
Fb = 1,200 PSI
Fv = 400 PSI
E = 800,000 PSI

4 TYP. RANGE VENT FRAMING
D5f VENTED TO EXTERIOR WALL



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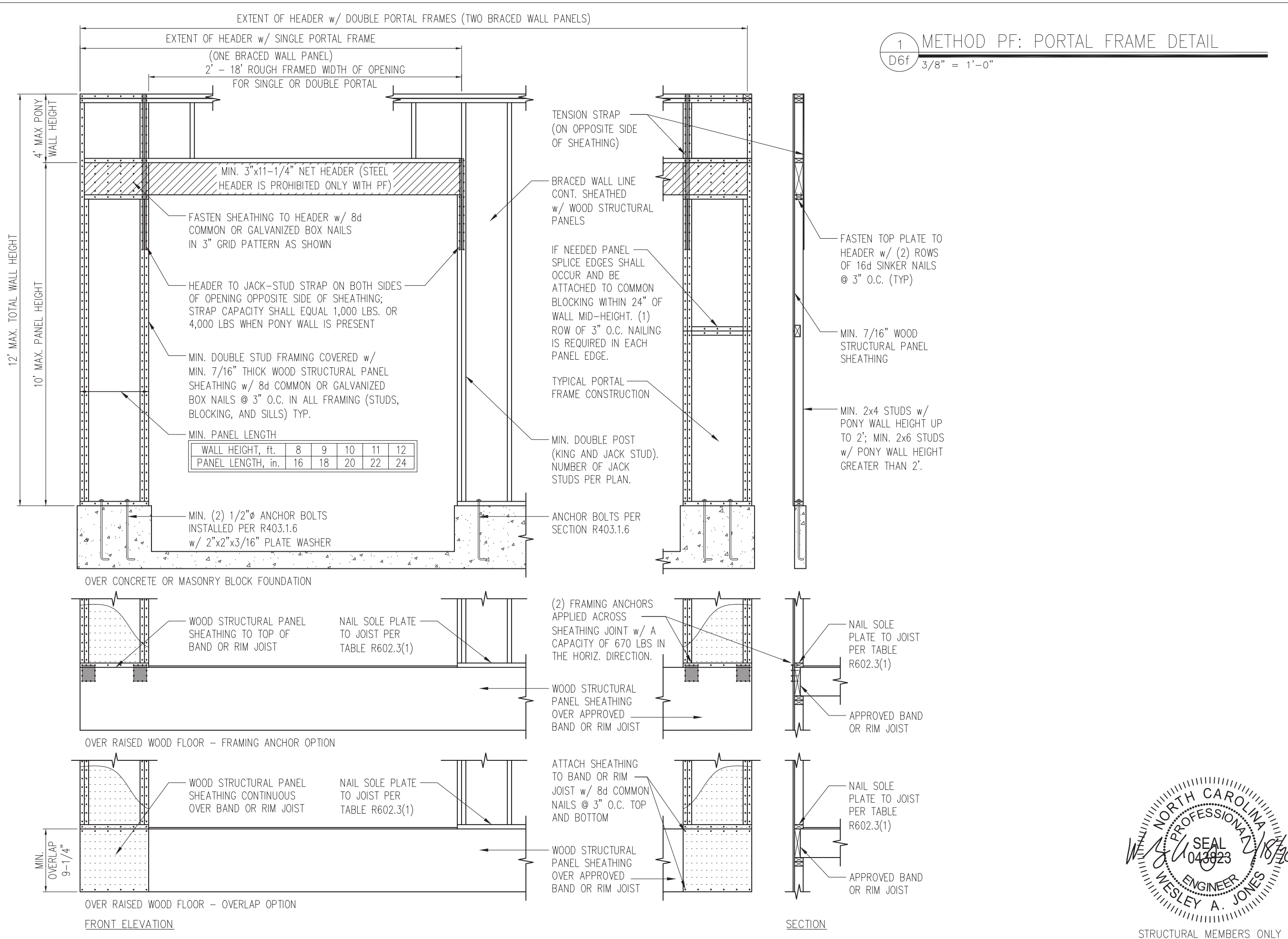
PROJECT
Standard Details
Framing Details
CLIENT
Smith Douglas Homes
110 Village Trail, Suite 215
Woodstock, GA 30188

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

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SHEET
D5f



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

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

PROJECT
Standard Details
Framing Details - Bracing

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

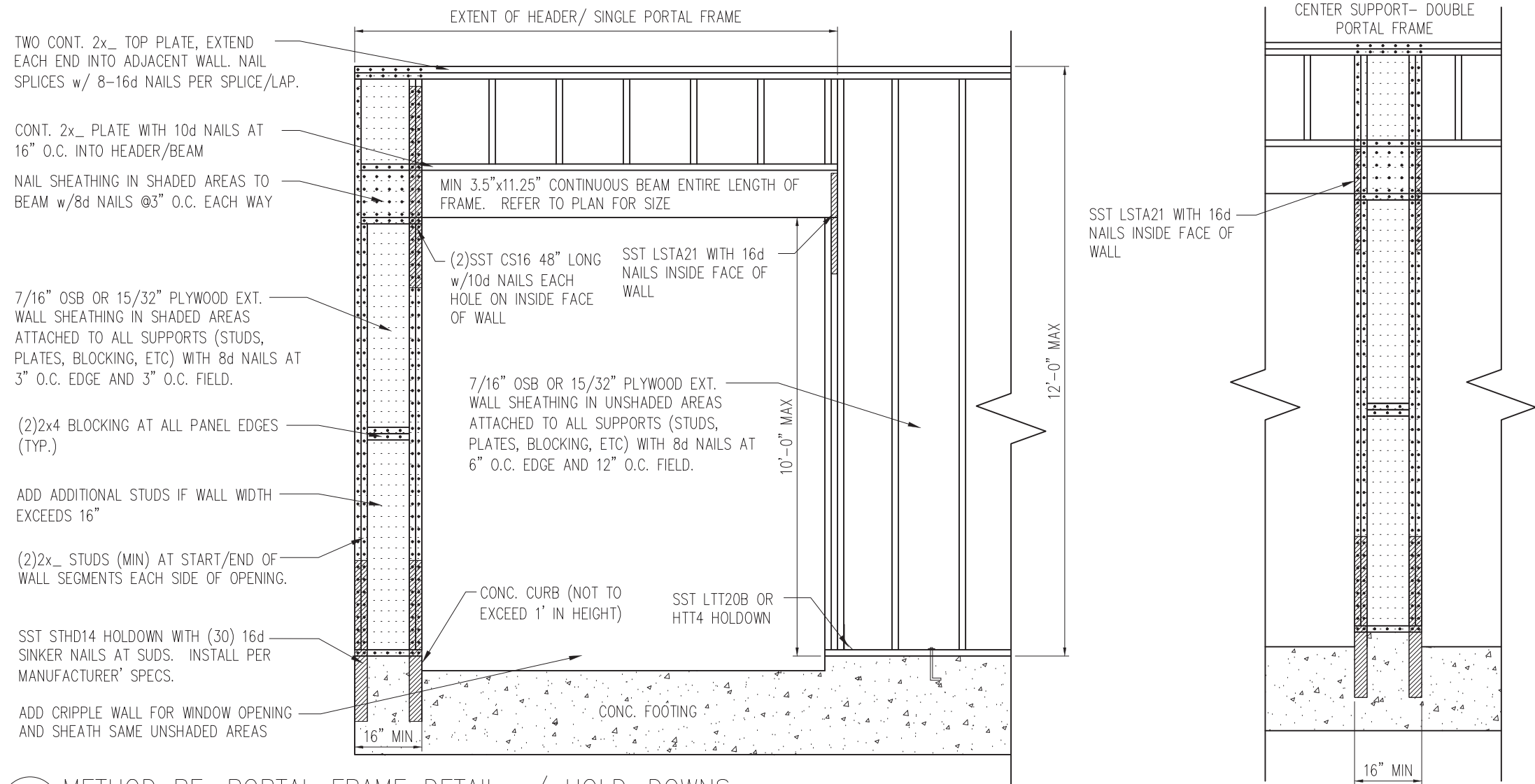
CURRENT DRAWING
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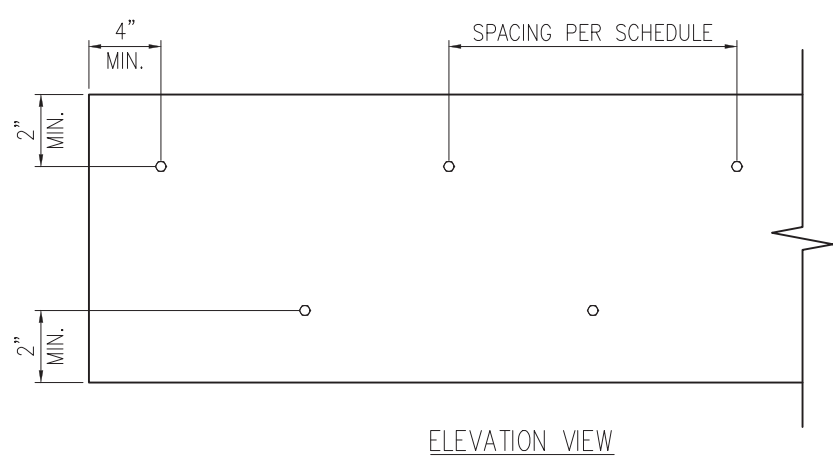
REFER TO COVER SHEET FOR A COMPLETE LIST OF REVISIONS

NORTH CAROLINA
PROFESSIONAL
ENGINEER
WESLEY A. JONES
SEAL
043823
2/18/20

SHEET
D6f
STRUCTURAL MEMBERS ONLY



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



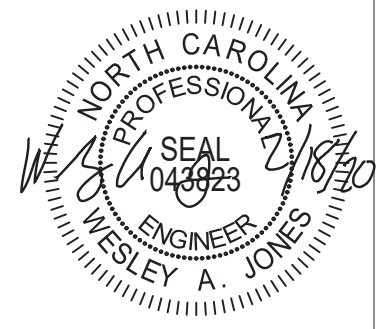
2 MULTI-PLY BEAM CONNECTION DETAIL
 D7f N.T.S.

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. | | |

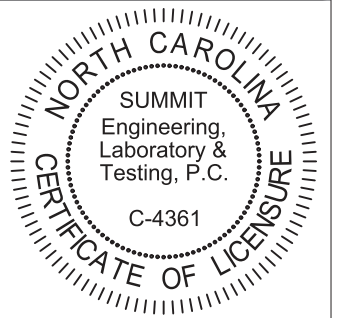
NOTES:

- 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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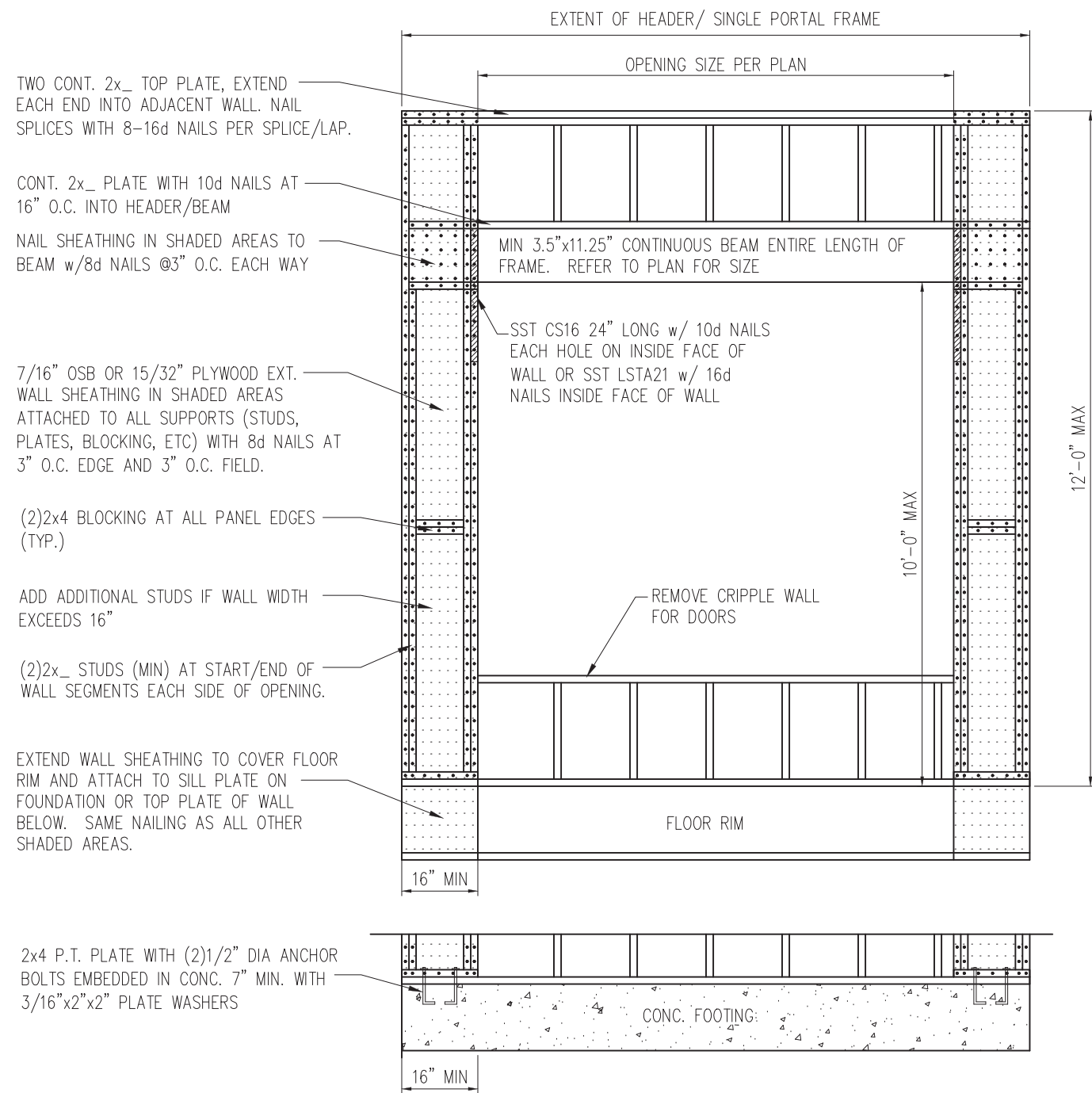


PROJECT
 Standard Details
 Framing Details - Bracing
 CLIENT
 Smith Douglas Homes
 110 Village Trail, Suite 215
 Woodstock, GA 30188

CURRENT DRAWING
 DATE: 2/18/20
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D7f



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

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

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

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

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

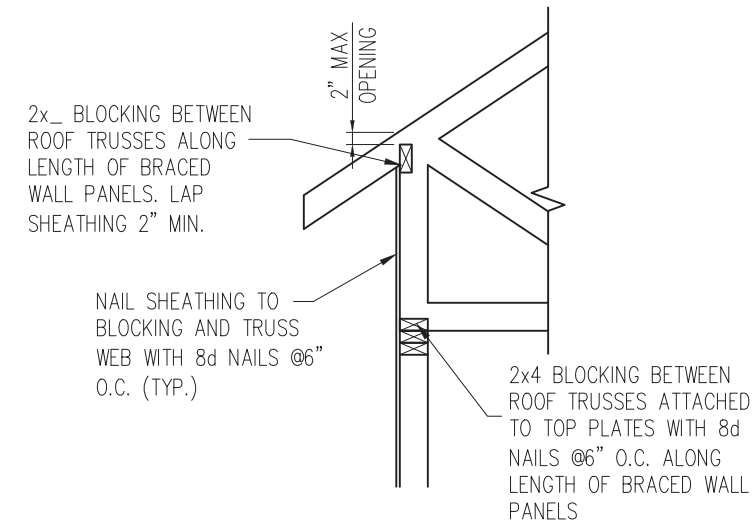
ADD ADDITIONAL STUDS IF WALL WIDTH EXCEEDS 16\"

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

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

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

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

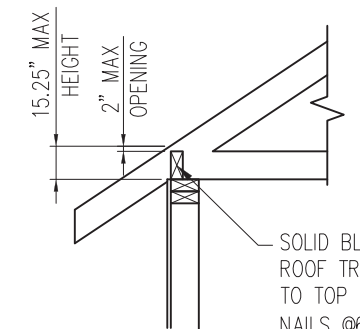


2x_ BLOCKING BETWEEN ROOF TRUSSES ALONG LENGTH OF BRACED WALL PANELS. LAP SHEATHING 2\" MIN.

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

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

HEEL HEIGHT GREATER THAN 15.25\"



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

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

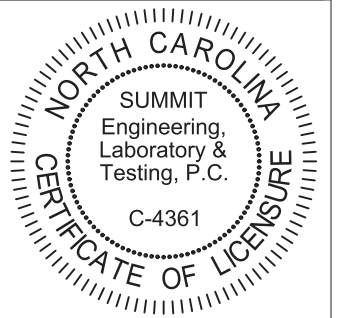
HEEL HEIGHT LESS THAN 15.25\" *

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



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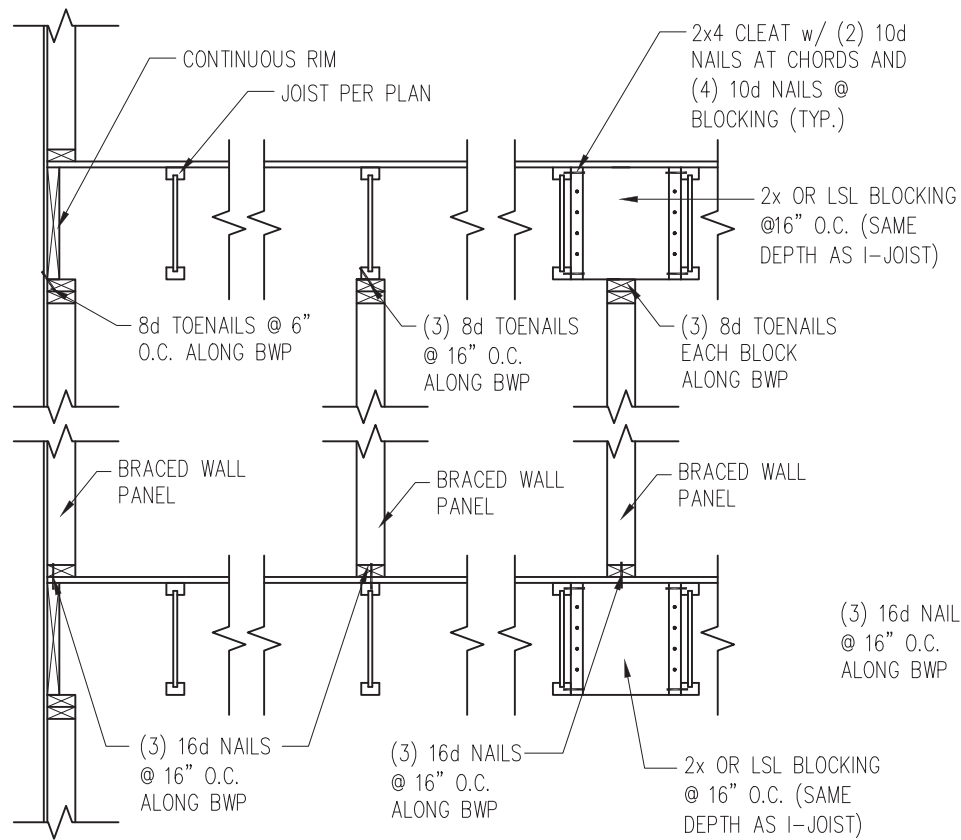
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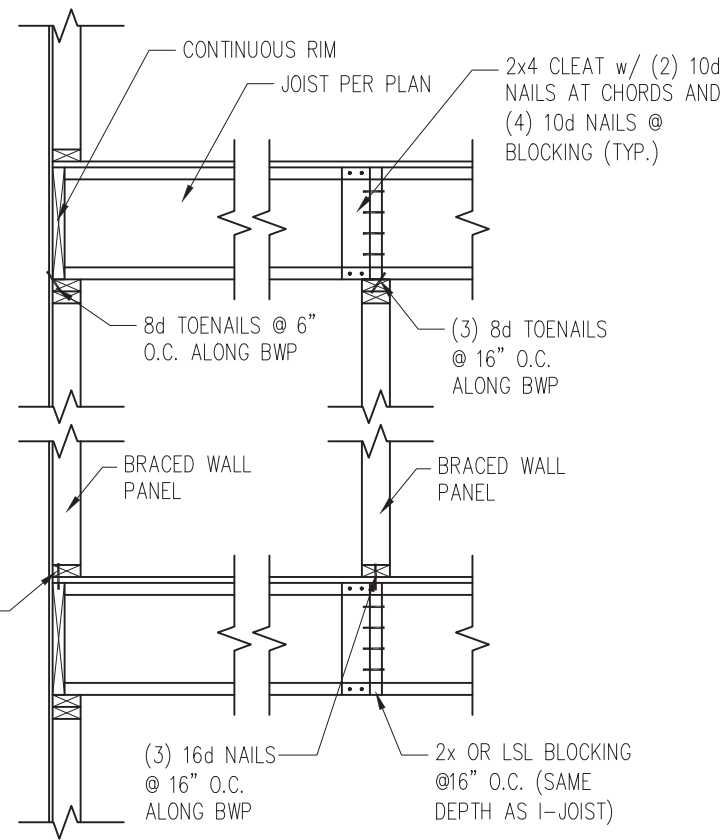
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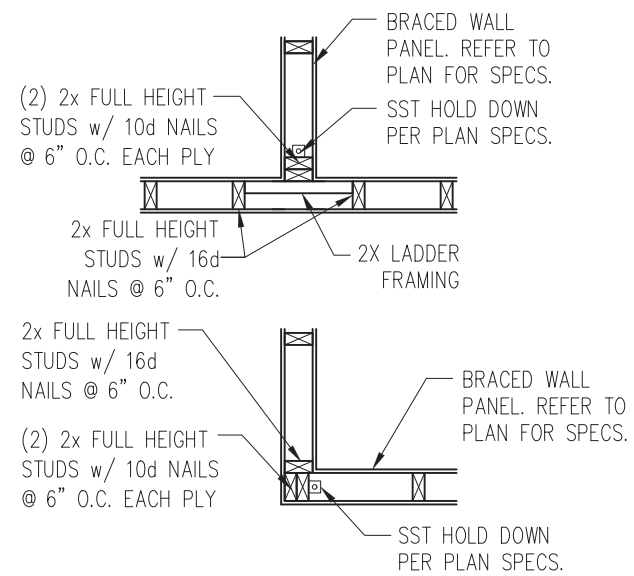
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D8f



JOISTS PARALLEL TO BRACED WALLS

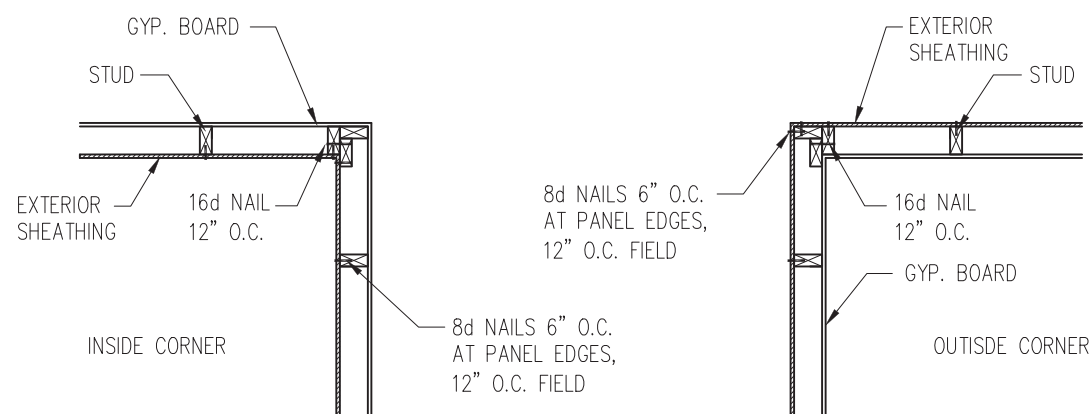


JOISTS PERPENDICULAR TO BRACED WALLS

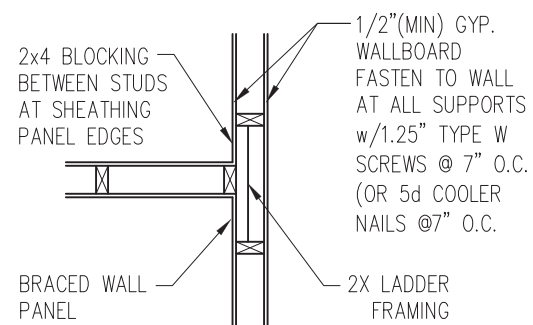


4 TYP. HOLD DOWN DETAIL
D9f 1" = 1'-0"

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



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

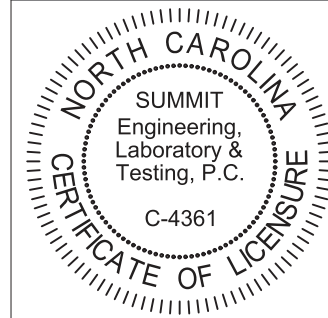


3 INTERIOR 3-STUD WALL INTERSECTION
D9f 1" = 1'-0"



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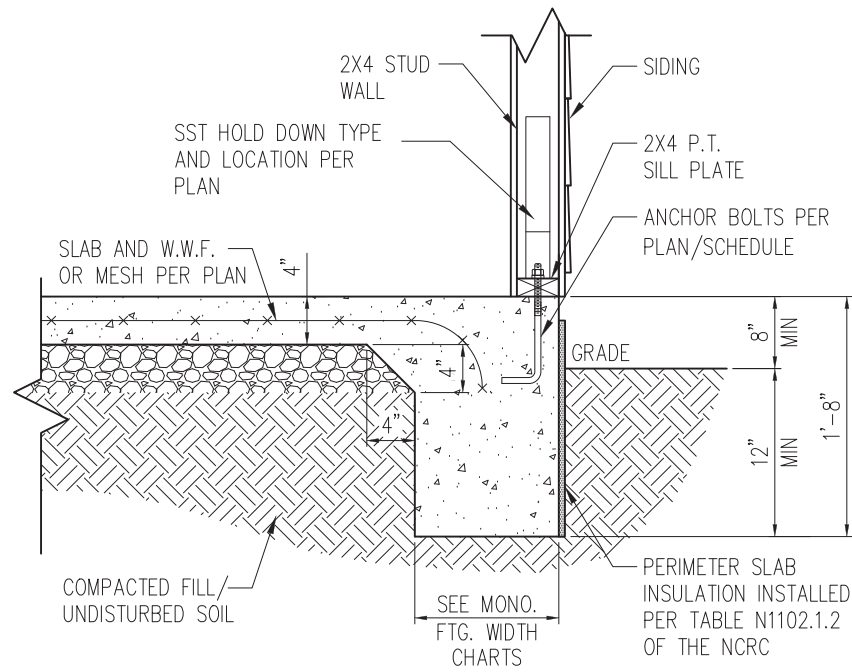
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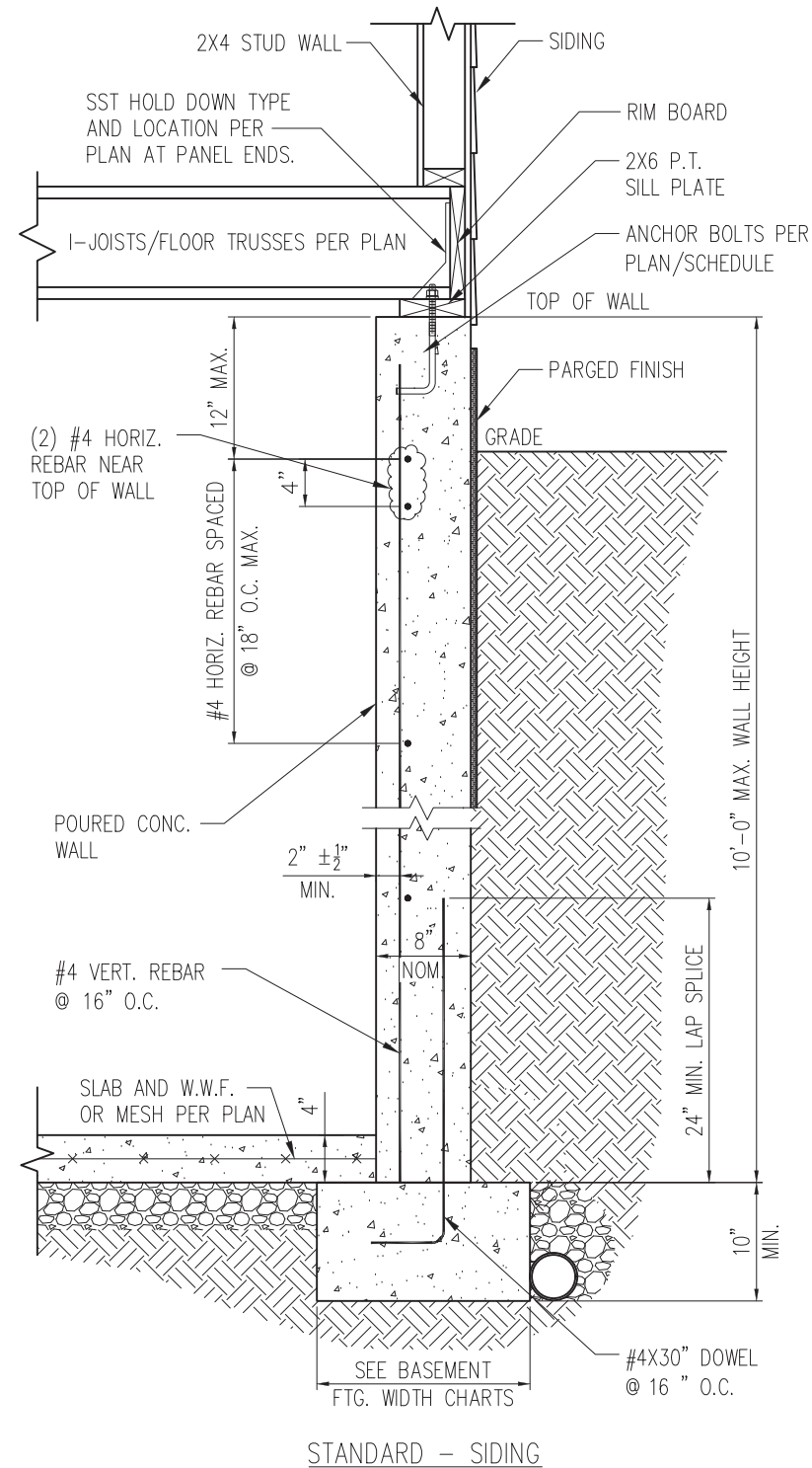
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1 SLAB DETAIL w/ HOLD-DOWN
 D10f 3/4" = 1'-0"

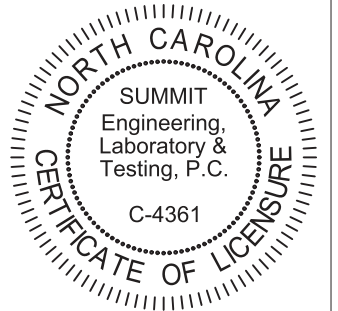


2 BASEMENT FOUNDATION WALL DETAIL W/ HOLD-DOWN
 D10f 3/4" = 1'-0"



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