
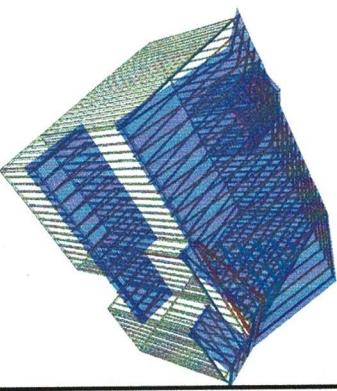


Builders First Source
23 Red Cedar Way
Apex, NC 27523
Phone: (919) 363-4956
Fax: (919) 387-8565
https://www.bldr.com




General Notes:
- Per ANSI/TPI-1-2002 all "Truss to Wall" connections are the responsibility of the Building Designer, not the Truss Manufacturer.
- Dimensions are Feet-Inches-Sixteenths.
- Trusses are to be 24" o.c. unless noted otherwise (U.N.O.)
- Trusses are not designed to support brick U.N.O.
- Do not cut or modify trusses without first contacting Builders FirstSource.
- Immediately contact Builders FirstSource if trusses are damaged.
Connection Notes:
- All hangers are to be Simpson or equivalent U.N.O.
- Use Manufacturer's specifications for all hanger connections U.N.O.
- Use 10d x 1 1/2" Nails in hanger connections to single ply roof girder trusses.
Floor notes:
- Shift truss as required to avoid plumbing traps.
- Installation Contractor and/or Field Supervisor are to verify all dimensions, trap locations, and options prior to installation.
Dimension Notes:
- Drawing not to scale. Do not scale dimensions
-  LEFT END OF TRUSS AS SHOWN ON TRUSS DETAIL DRAWINGS ARE INDICATED BY TRIANGLE ICONS.

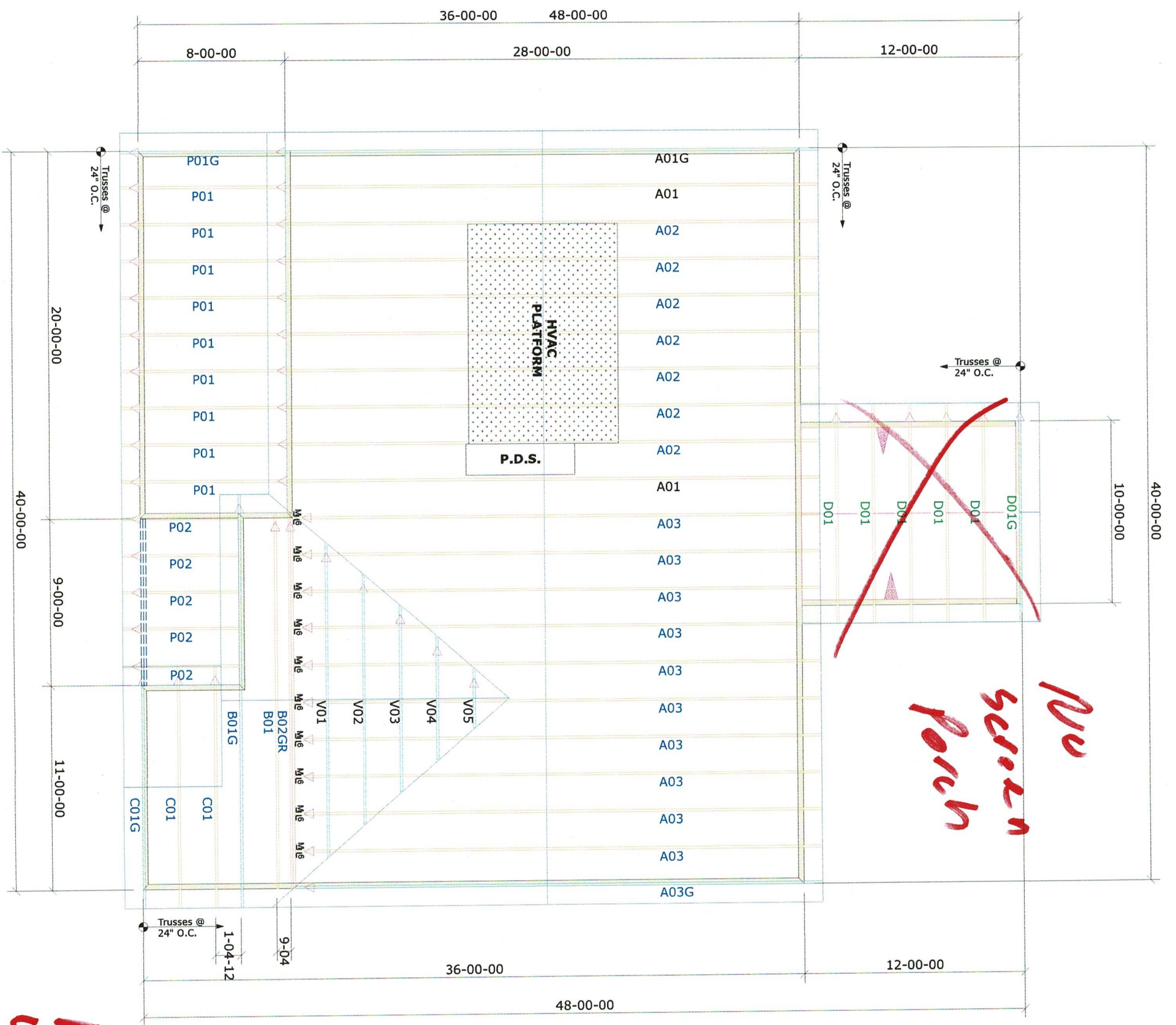


HANGER LIST		SPECIAL ITEMS LIST	
10	HTU26 M 6		

MISC MATERIAL	
---	---

DESIGNED BY: ---DS		T.C.D.L. 10 PSF	
LAYOUT: ---		B.C.L.L. 0 PSF	
L/O DATE: 5/12/2020		B.C.D.L. 5 PSF	
REVISION HISTORY			
REV:1:	XX/XX/XX	M.P.H.	115 MPH
REV:2:	XX/XX/XX	EXPOSURE CATEGORY	B (WOODED AREAS/OTHERS)
REV:3:	XX/XX/XX		
JOB NO: ---		ACT NO: ---	

HATCH LEGEND	
	ATTIC ROOM
	VOLUME CEILING
	STICK FRAMING

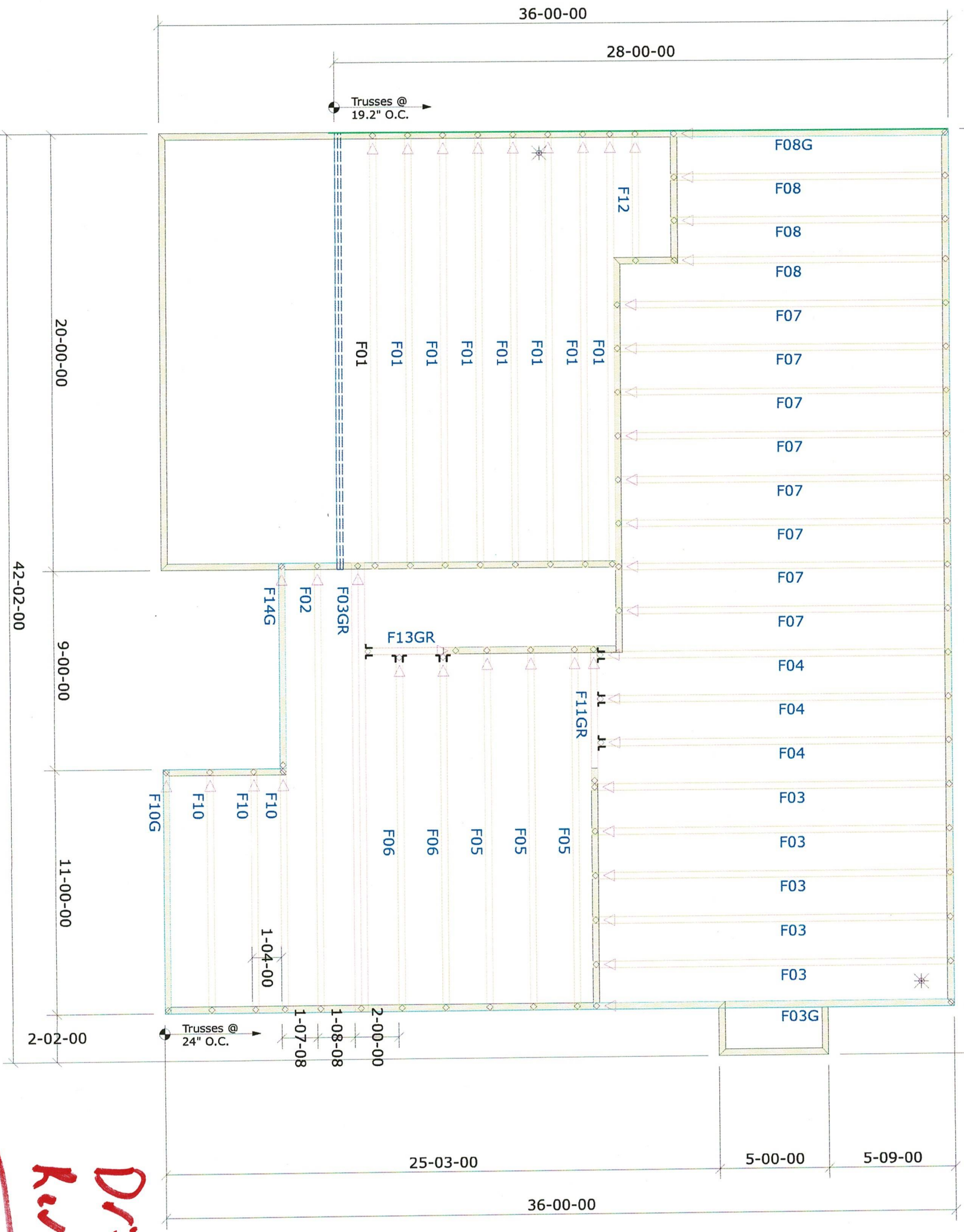


Rev Screen Porch

Reverse layout
Drive Right

42-02-00
40-00-00

Trusses @
24" O.C.



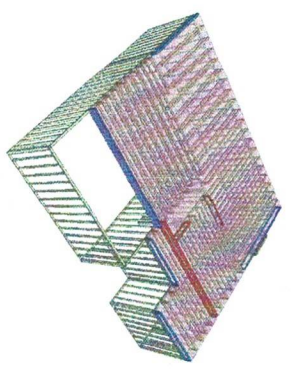
2-02-00

*Drive Right
Reverse layout*

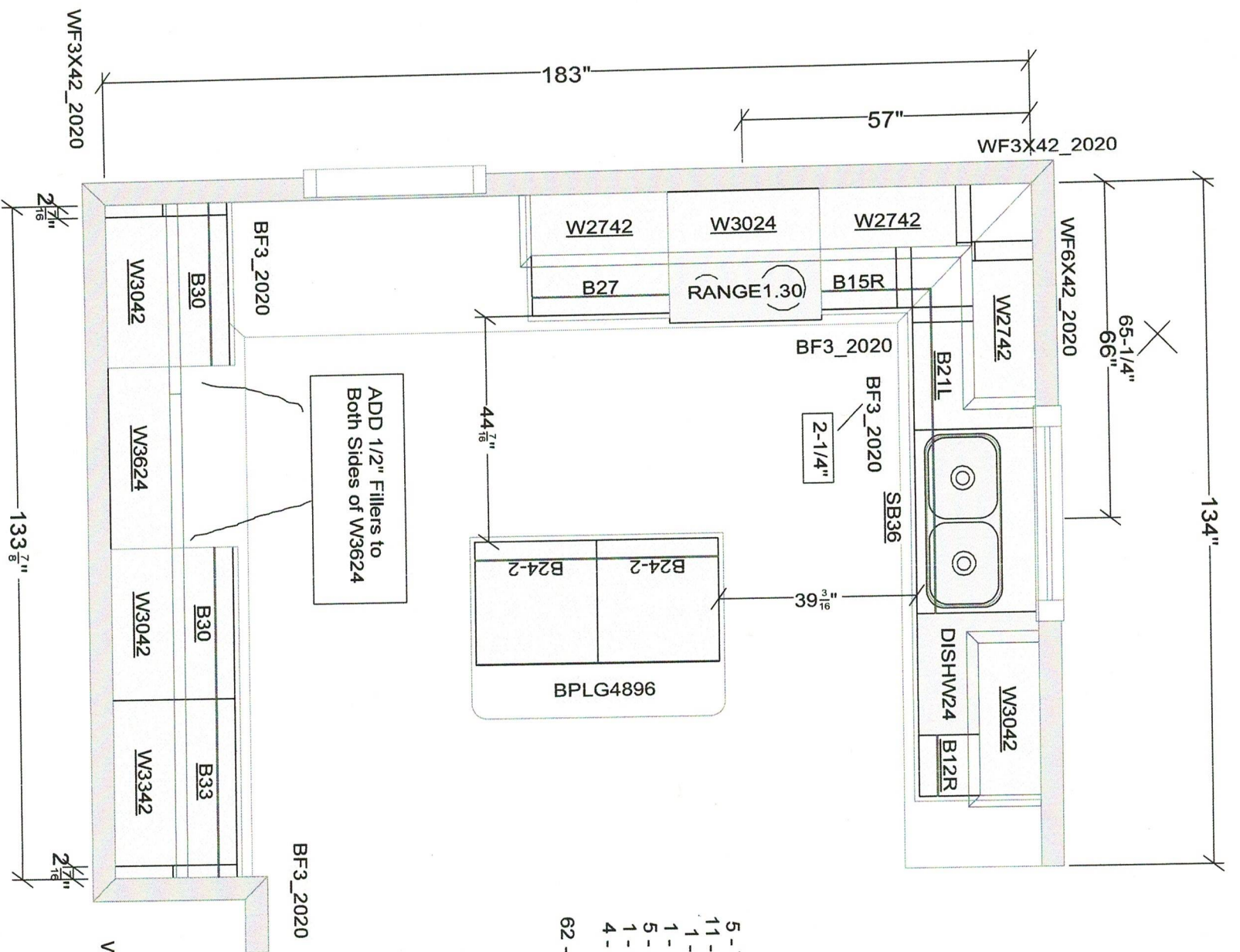


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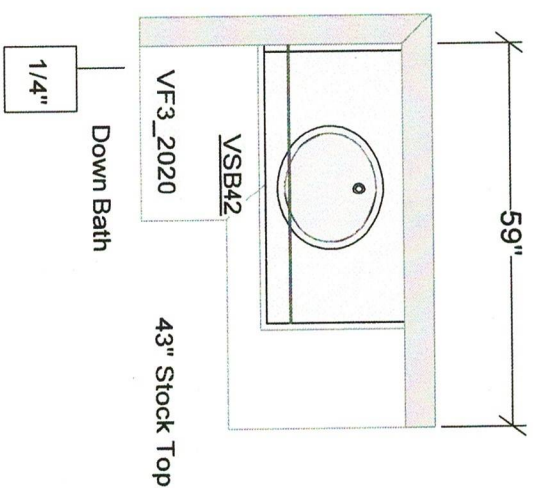
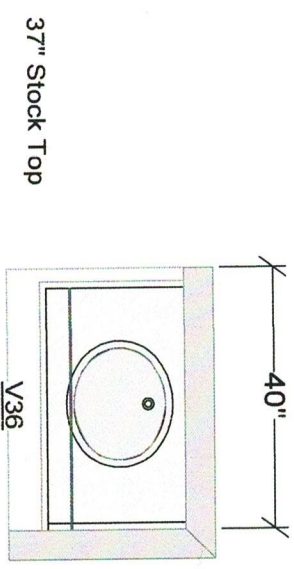
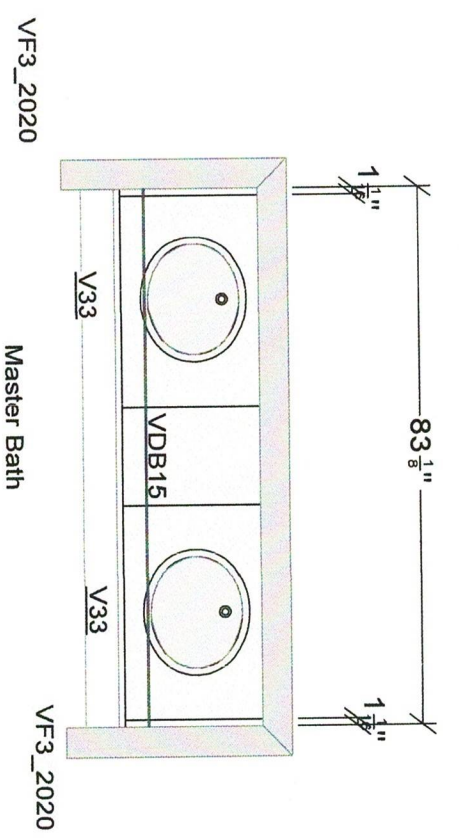
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- Dimensions are Feet-Inches-Sixteenths.
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Dimension Notes:
- Drawing not to scale. Do not scale dimensions
- LEFT END OF TRUSS AS SHOWN ON TRUSS DETAIL DRAWINGS ARE INDICATED BY TRIANGLE ICONS.



HANGER LIST		ALL THE DIMS IN 1/4" UNLESS NOTED	
6	THK422	<input type="checkbox"/>	<input type="checkbox"/>
SPECIAL ITEMS LIST			
MISC MATERIAL			
DESIGNED BY: JOHN DOVE ELEV: ---A ---AUBREY ---FLOOR --- NC LOT: --- APPWRIGHT # CODE: IRC 2015 LOADING: T.C.L.L. 40 PSF I.C.D.L. 10 PSF B.C.L.L. 0 PSF B.C.D.L. 5 PSF LAYOUT: --- /O DATE: 5/12/2020 B.C.D.L. 5 PSF REVISION HISTORY REV1: XX/XX/XX M.P.H. 115 MPH REV2: XX/XX/XX EXPOSURE CATEGORY REV3: XX/XX/XX B (WOODED AREAS/OTHERS) JOB NO.: --- SALES NO.: --- ACT NO.: ---			
HATCH LEGEND			
	ATTIC ROOM		
	VOLUME CEILING		
	STICK FRAMING		



- 5 - TKS8
- 11 - SCRIBE
- 1 - Back Panel
- 1 - OCM
- 5 - CROWN
- 1 - F696
- 4 - F396
- 62 - HP164 (DRILL - 3-3/4+ " Spread)



All dimensions size designations given are subject to verification on job site and adjustment to fit job conditions.

2020

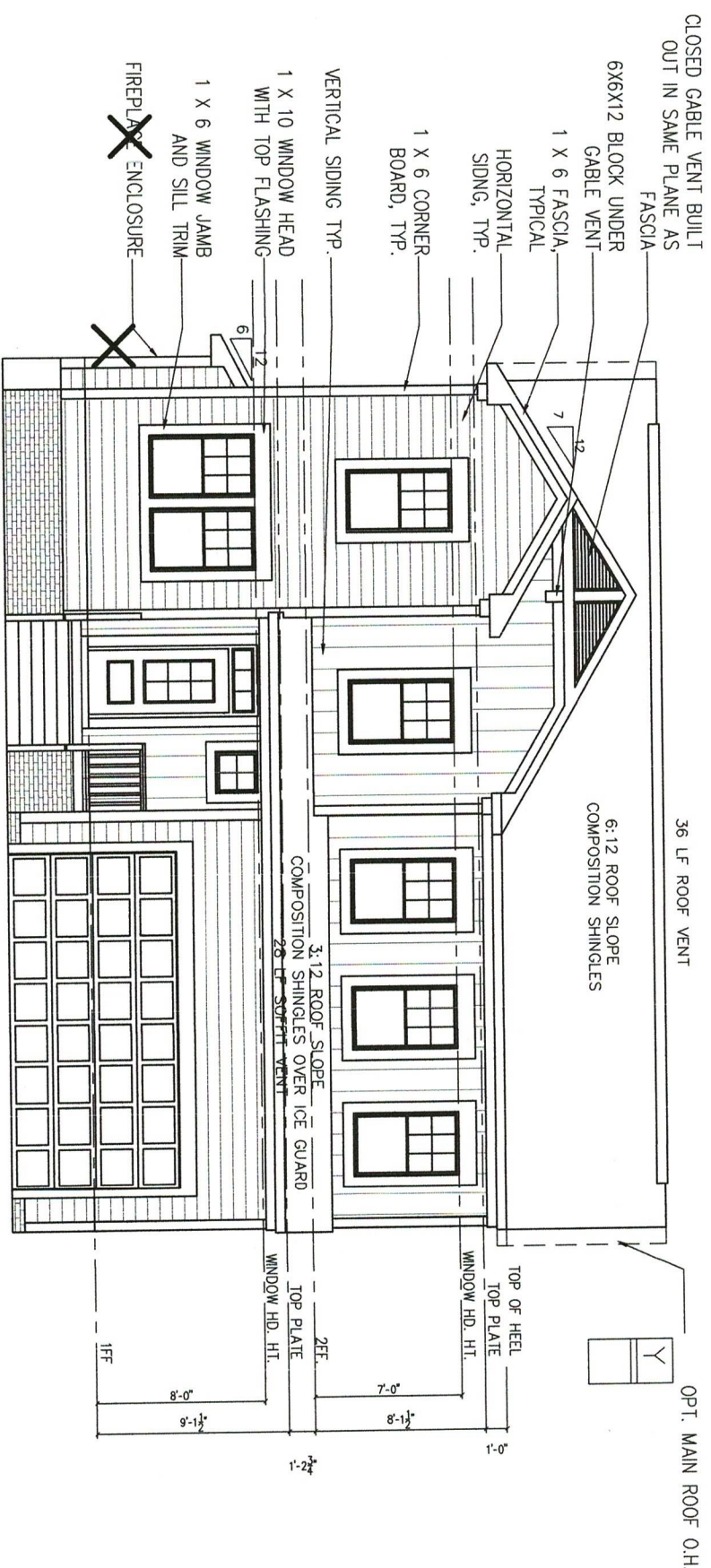
This is an original design and must not be released or copied unless applicable fee has been paid or job order placed.

Designed: 5/11/2020
Printed: 12/21/2020

General Elevation Notes

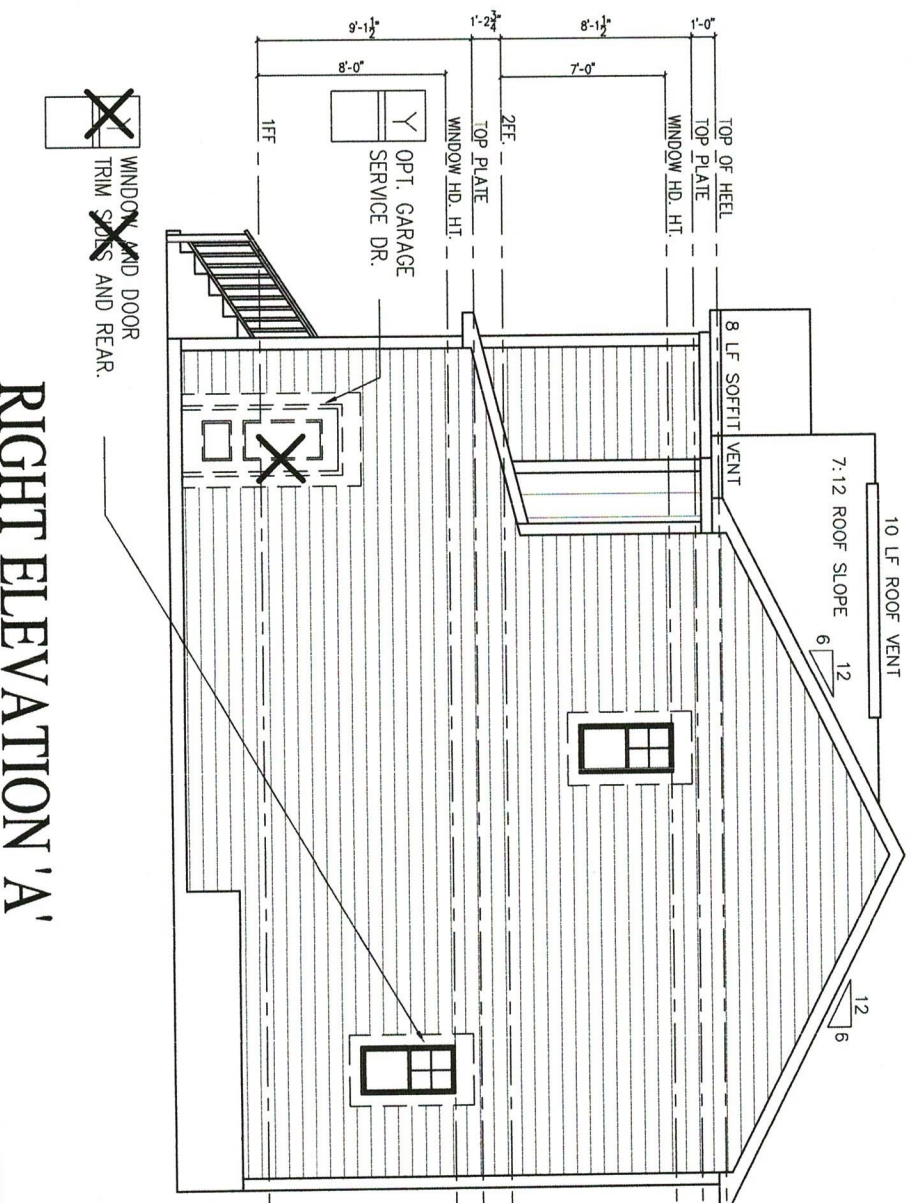
General Elevation Notes shall apply unless noted otherwise on plan.

1. Roof shall be finished with composition shingles with slopes as noted on plan.
2. Metal Roof finish is used as an accent material and may be optional, consult community specifications.
3. Ridge Vent shall be provided and installed on all ridges greater than 6' in length per manufacturer's specifications.
4. Soffit Vent shall be continuous soffit vent, consult community specifications for material.
5. Additional Vents may be required to meet ventilation requirements, consult ventilation calculations and additional vents noted on plan.
6. House Wrap, "Tyvek" or approved equal shall be installed over entire exterior wall per manufacturer's specifications and recommendations. "Zip" system sheathing may substitute for House Wrap.
7. Flashing shall be provided above all door and window openings, above finish wall material changes and at wall surfaces where lower roof areas abut vertical wall surfaces.
8. Porch Railings shall be provided at all porch walking surfaces greater than 30" above adjacent finished grade. It shall be 36" high with guards spaced no more than 4" apart. Consult community specifications for material.
9. Finish Wall Material shall be as noted on elevation drawings. Consult community specifications for material make-up of siding, shown as generic on drawing.
10. Brick Veneer, if included on elevation shall be tied to wall surface with galvanized corrugated metal ties at a rate of 24" oc horizontally and 16" oc vertically so that no more than 2.67sf of brick is supported by (1) tie. Space between face of wall and back face of brick shall be limited to a maximum of 1". Flashing shall be provided behind brick above all wall openings and at base of brick wall. Flashing shall be a minimum of 6-mil poly or other corrosion resistant material and shall be installed so that it laps under the house wrap material a minimum of 2". Weepholes shall be provided at a rate of 48" oc and shall not be less than 3/16" in diameter and shall be located immediately above flashing.
11. Brick Veneer Support Lintels shall be provided if brick veneer is included on elevation. See structural plans for lintel size, bearing area, and connection to header.
12. Sheathing House is covered 100% with structural wood sheathing at front and rear and side elevations provide nail pattern of 3" o.c. at perimeter and 6" o.c. at field.



FRONT ELEVATION 'A'

SCALE: 1/4"=1'-0" ON 22x34 AND 1/8"=1'-0" ON 11x17



RIGHT ELEVATION 'A'

ROOF VENT. CALCULATIONS ELEV 'A'

MAIN ROOF ATTIC	
1232 SQ. FT.	ATTIC VENTILATION REQUIRED
300	ATTIC VENTILATION REQUIRED
46 LF RIDGE VENT @ 18 S.1./LF = 46x18 = 828 S.1 = 5.75 SF	
74 LF SOFFIT VENT @ 4.5 S.1./LF = 74x4.5 = 333 S.1 = 2.31 SF	0.87 SF PROVIDED
ROOF OF GARAGE AND FRONT PORCH	
206 SQ. FT.	ATTIC VENTILATION REQUIRED
300	ATTIC VENTILATION REQUIRED
28 LF SOFFIT VENT @ 4.5 S.1./LF = 28x4.5 = 126 S.1 = 0.87 SF	0.87 SF PROVIDED
OPT COVERED OR SCREEN PORCH	
120 SQ. FT.	ATTIC VENTILATION REQUIRED
300	ATTIC VENTILATION REQUIRED
10 LF RIDGE VENT @ 18 S.1./LF = 10x18 = 180 S.1 = 1.25 SF	
20 LF SOFFIT VENT @ 4.5 S.1./LF = 20x4.5 = 90 S.1 = 0.62 SF	1.87 SF PROVIDED

MASTER ISSUE DATE:
4/02/2020
DO NOT SCALE PRINTS
CONSTRUCTION SHALL BE
PER INDICATED DIMENSIONS
ONLY

LATEST REVISION DATE:
**GAR
RIGHT**

DOVE HOMES, LLC
RALEIGH, NC
919-427-6991

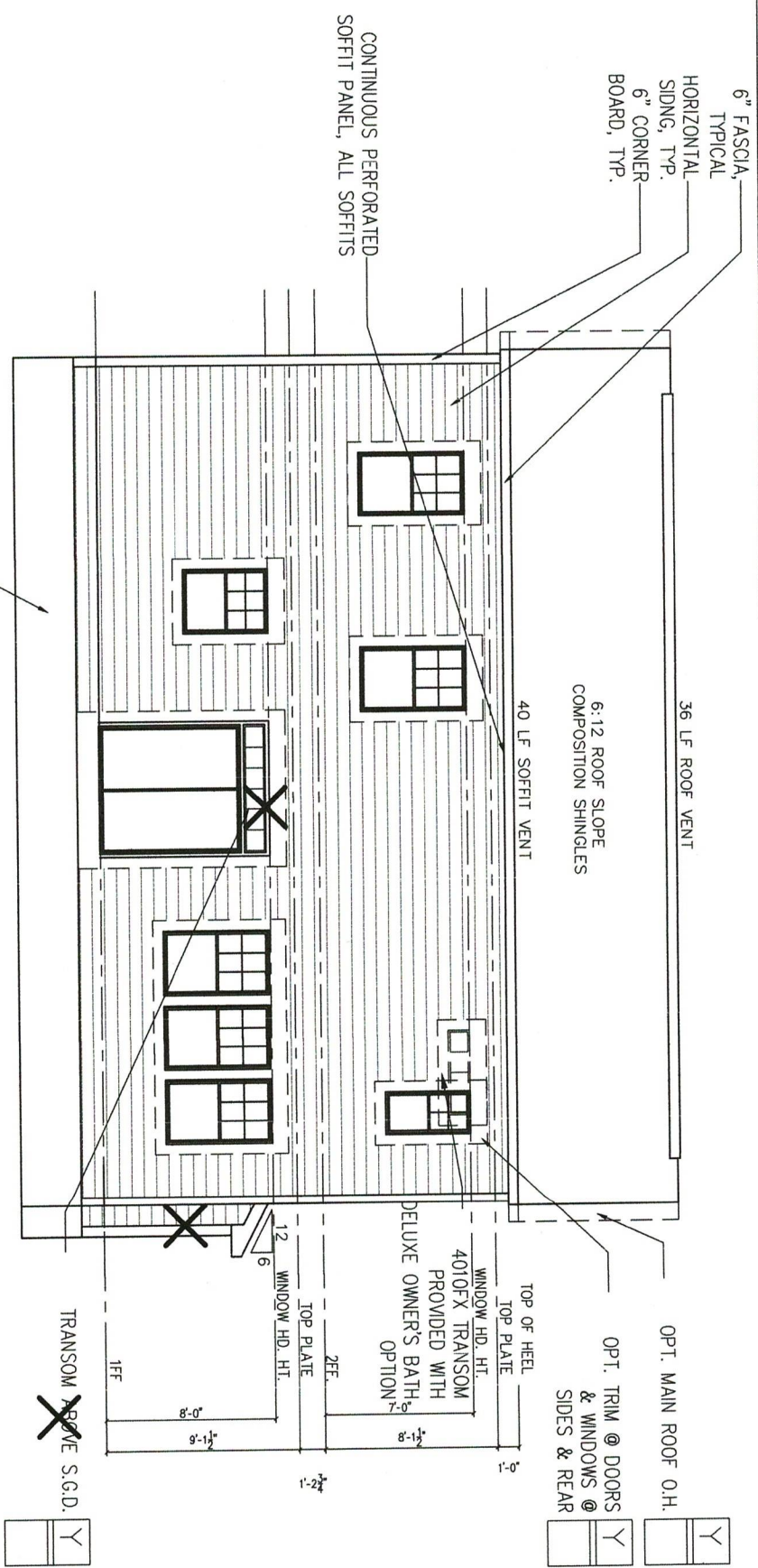
AUBREY
ELEVATION 'A' - CRAWL

SHEET #
4.00

General Elevation Notes

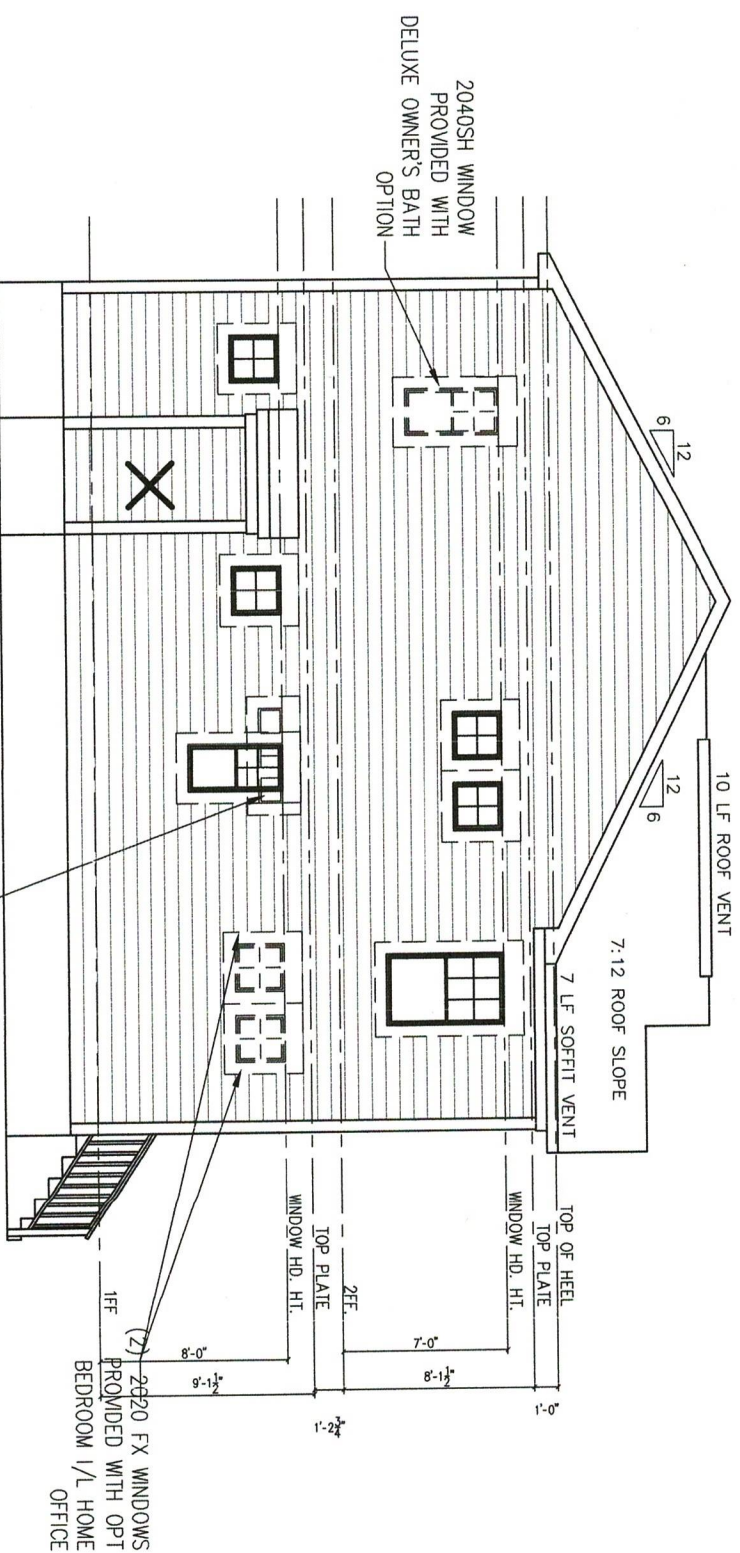
General Elevation Notes shall apply unless noted otherwise on plan.

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2. Metal Roof finish is used as an accent material and may be optional, consult community specifications.
3. Ridge Vent shall be provided and installed on all ridges greater than 6' in length per manufacturer's specifications.
4. Soffit Vent shall be continuous soffit vent, consult community specifications for material.
5. Additional Vents may be required to meet ventilation requirements, consult ventilation calculations and additional vents noted on plan.
6. House Wrap, "tyvek" or approved equal shall be installed over entire exterior wall per manufacturer's specifications and recommendations. "Zip" system sheathing may substitute for House Wrap.
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11. Brick Veneer Support Lintels shall be provided if brick veneer is included on elevation. See structural plans for lintel size, bearing area, and connection to header.
12. Sheathing House is covered 100% with structural wood sheathing at front and rear and side elevations provide nail pattern of 3" o.c. at perimeter and 6" o.c. at field.



REAR ELEVATION

SCALE: 1/8"=1'-0" ON 22x34 AND 1/16"=1'-0" ON 11x17



LEFT ELEVATION 'A'

SCALE: 1/8"=1'-0" ON 22x34 AND 1/16"=1'-0" ON 11x17

MASTER ISSUE DATE: 4/02/2020
DO NOT SCALE PRINTS. CONSTRUCTION SHALL BE PER MODIFIED DIMENSIONS AND I/L.
LATEST REVISION DATE:

GAR RIGHT

DOVE HOMES, LLC
RALEIGH, NC
919-427-6991

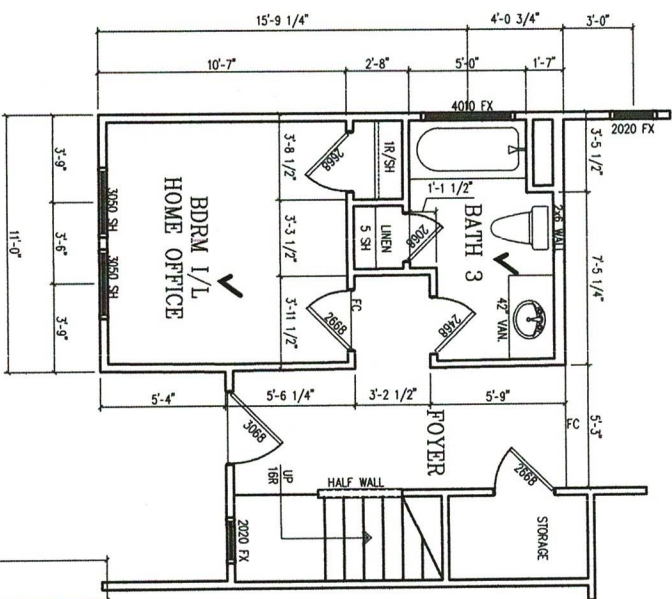
AUBREY
ELEVATION 'A' - CRAWL

SHEET #
4.10

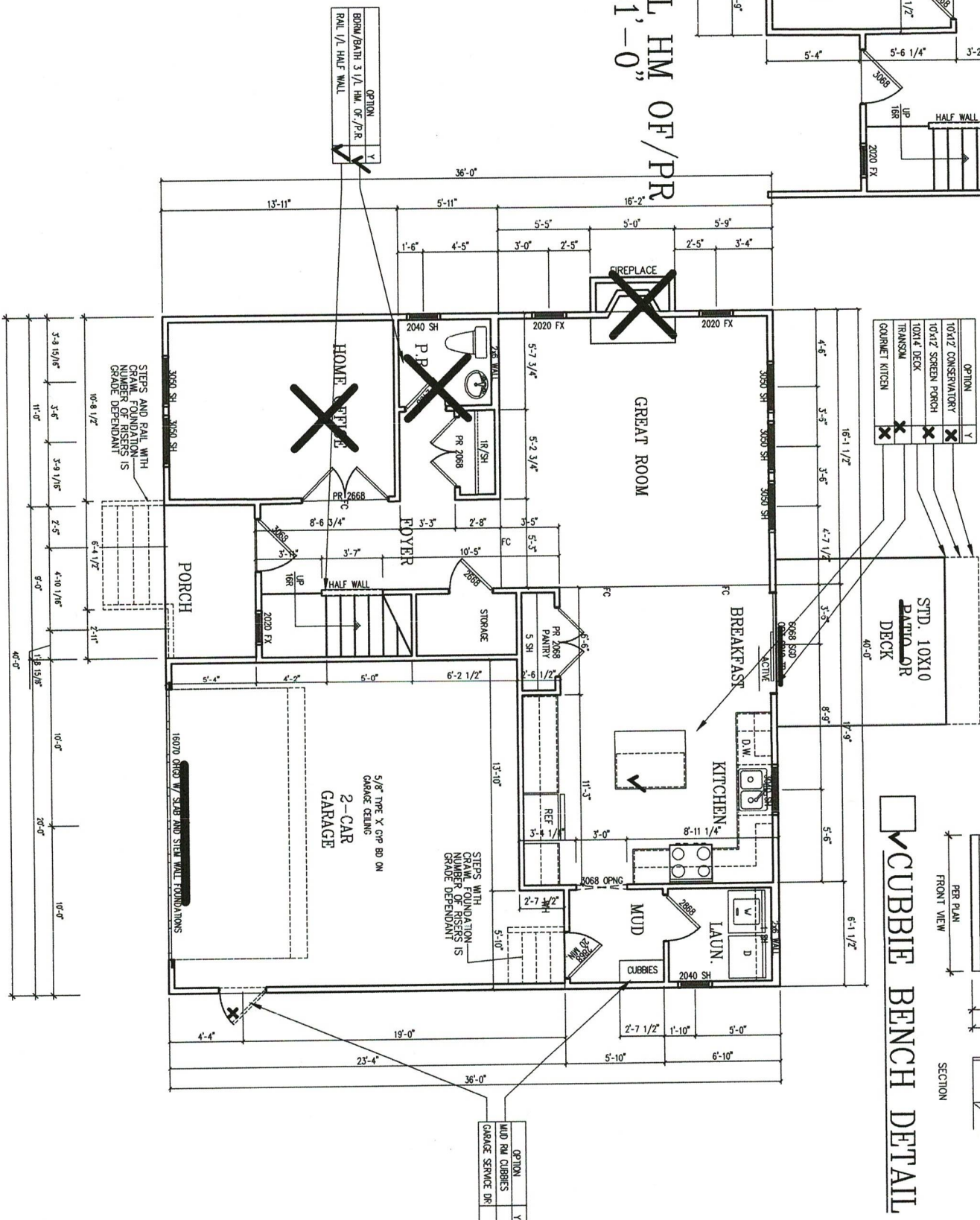
General Floor Plan Notes

General Floor Plan Notes shall apply unless noted otherwise on plan.

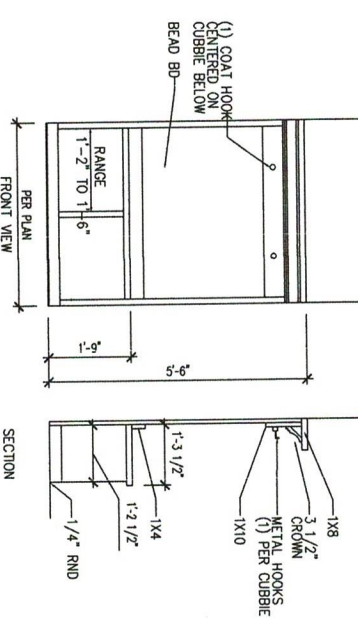
1. **Wall Heights:** Typically 9'-1-1/2" first floor and 8'-1-1/2" second floors U.N.O.. All walls are constructed using a double top plate. Splices at Double Top Plate do not need to occur at Vertical Studs but must be at least 24" apart from joint in other Top Plate layer. Special wall heights are noted on plans where they occur.
2. **Wall Thickness** is typically 4" at exterior walls, 3-1/2" at interior. 2x6 frame shall be used at walls that back up to plumbing fixtures. Walls greater than 10' high shall be framed with 2x6 framing or greater and will be noted as a special condition where it occurs on plan.
3. **Header height** shall be 7'-11" AFF at 9' plate height and 6'-11" at 8' plate height, unless noted otherwise.
4. **Soffits, Coffered Ceilings, Trey Ceilings** and other significant ceiling plan elements are shown on the floor plans and are denoted as single dashed lines. Unless specifically call out as included, Kitchens do not include soffits over wall cabinetry.
5. **Door & Window Frames,** where occurring near corners, shall be a minimum of 4-1/2" from corner. Except for walk-in closets with doors near a corner, doors at closets shall be centered on closet.
6. **Windows:** Shall have at least (1) window in each sleeping room, that meets egress. Shall be provided with tempered glass at hazardous glazing areas. Windows used at unfinished attic spaces as elevation decorative elements only shall have obscure glazing.
7. **Closets** for clothing or coat storage shall be equipped with 1 rod/shelf. Closets for linen shall have 5. Closets for pantries shall have 5 shelves. Consult spec level for solid or wire shelves.
8. **Stairs** shall have a minimum width dimensioned as 3'-7", treads shall be 10" deep, risers shall be a maximum of 7-3/4", unless noted otherwise.
9. **Handrails and Guards** at stairs shall be 34" above the finished surface of the ramp surface of the stair. Handrails at landings and overlooks of multilevel spaces shall be 42" above finished floor. Guards (pickets or balusters) shall be spaced with no more than 4" between guards.
10. **Attic Access** shall be provided to attic areas that exceed 400 square feet and have a vertical height of 60" or greater. Minimum clear attic access shall be 20" x 30". Pull down stairs and access doors in knee walls meeting minimum criteria are also acceptable.
11. **Garage Door to Living Space** shall be 2'-8" x 6'-8" minimum size and shall be 20 minute fire rated and weather sealed.
12. **Garage Walls,** as a minimum, shall be separated from living space and living space attic by installing 1/2" gypsum board on the garage side of the wall.
13. **Garage Ceilings,** 5/8" type "X" gypsum board on the garage ceilings when heated space is above.



BDRM/BAS I/L HM OF/PR
SCALE: 1/8"=1'-0"



CUBBIE BENCH DETAIL



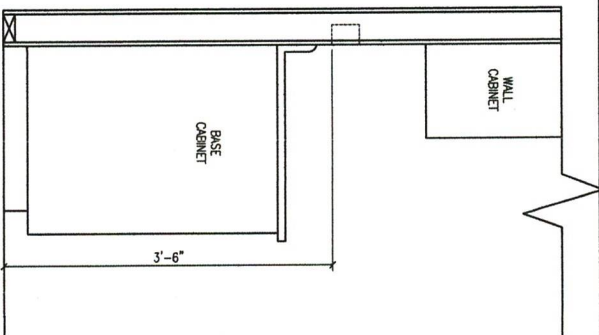
FIRST FLOOR PLAN
SCALE: 1/8"=1'-0"

AUBREY
1ST FLOOR PLAN - ELEVATION "A"

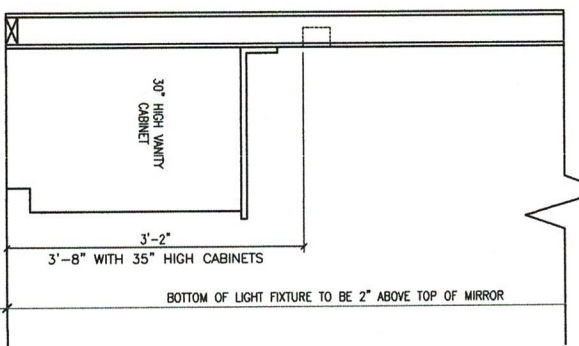
DOVE HOMES, LLC
RALEIGH, NC
919-427-6991

MASTER ISSUE DATE: 4/02/2020
DO NOT SCALE PRINTS OR DIMENSIONS PER ARCHITECT ONLY
LATEST REVISION DATE

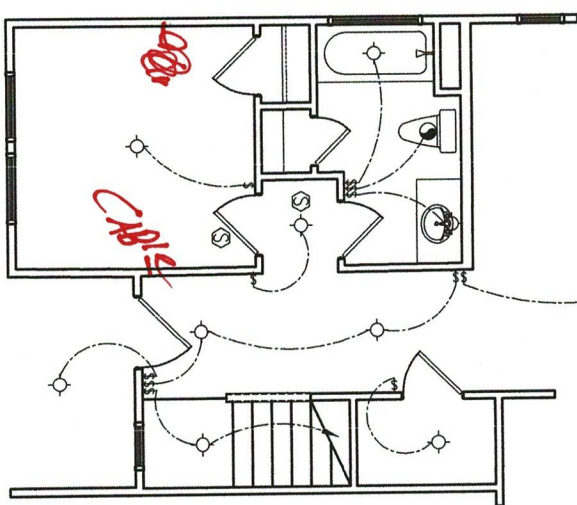
SHEET # 6.00



SWITCH & RECEPTACLE BOXES OVER KITCHEN CABINETS



SWITCH & RECEPTACLE BOXES OVER BATH CABINETS



ELECTRICAL LEGEND	
	OUTLET & SWITCH LOCATION WILL BE PER CODE AND MAY VARY FROM LOADINGS
	3 WIRE SWITCH
	4 WIRE SWITCH
	110 VOLT OUTLET
	CEILING FAN REMOTE
	CEILING MOUNTED LIGHT FIXTURE
	WALL MOUNTED LIGHT FIXTURE
	2 WIRE FLOOD LIGHT
	EXHAUST FAN
	SMOKE DETECTOR

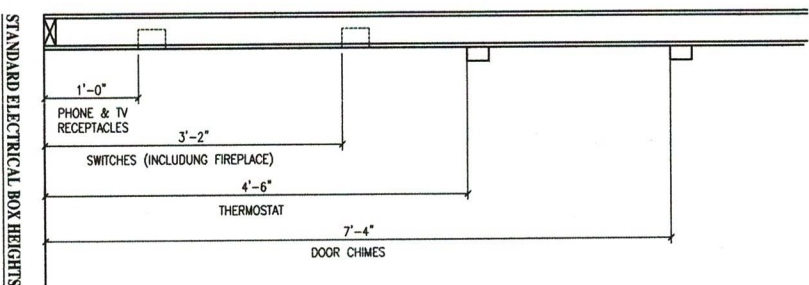
NOTE: THIS PLAN SHOWS LIGHTING AND LIFE SAFETY ITEMS ONLY. CONVENIENCE OUTLETS ARE PLACED IN FIELD BY ELECTRICAL CONTRACTOR BASED ON REQUIREMENTS OUTLINED IN THE NATIONAL ELEC CODE.

GENERAL POWER AND LIGHTING NOTES:

GENERAL POWER AND LIGHTING NOTES SHALL APPLY UNLESS NOTED OTHERWISE. ALL ELECTRICAL INSTALLATIONS SHALL BE IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE AND THE NATIONAL FIRE ALARM AND SIGNALING CODE. ALL DEVICES SHALL MEET NFPA 72.

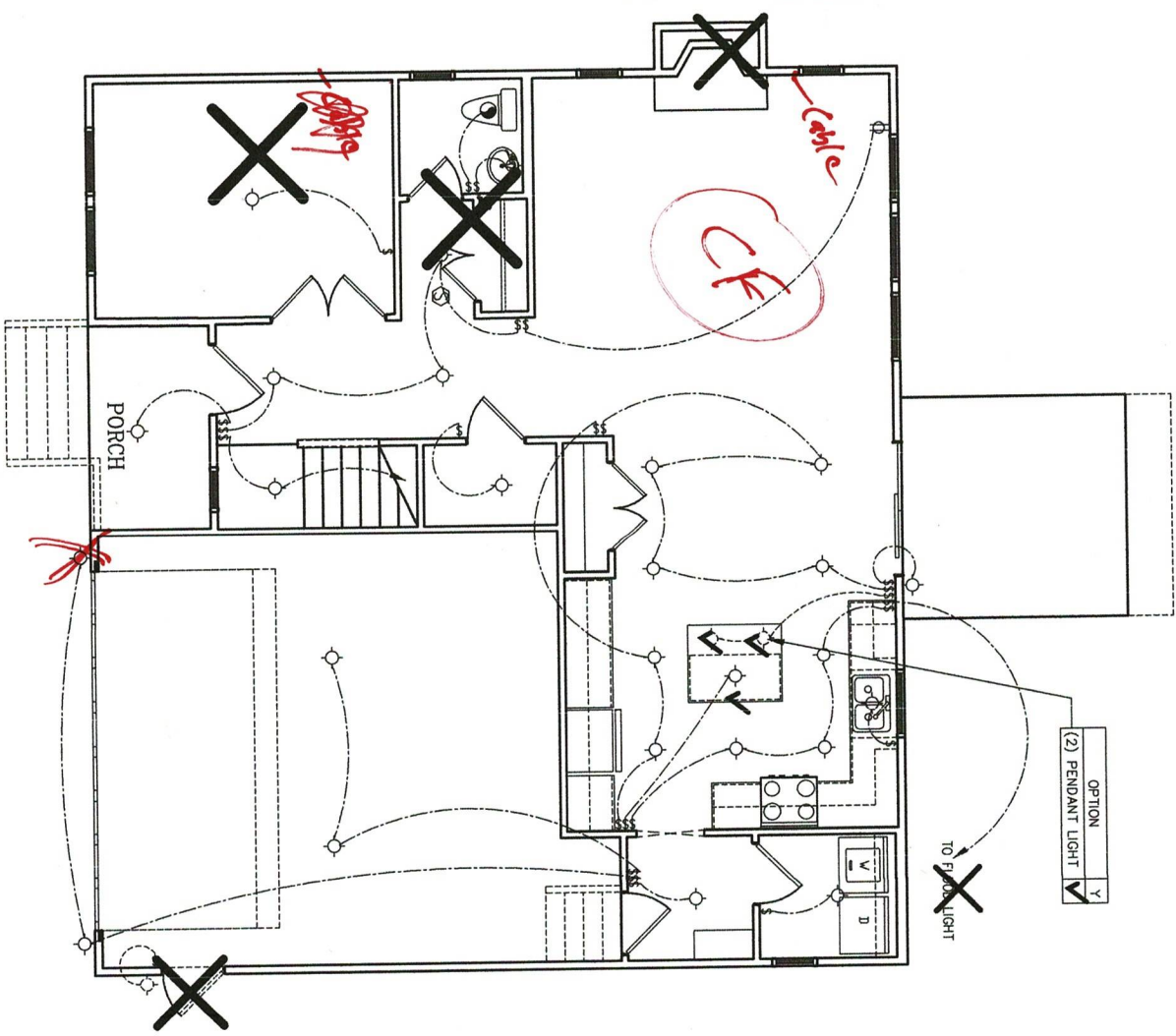
1. SMOKE ALARMS - SHALL BE PROVIDED AS A MINIMUM OF (1) PER FLOOR, INCLUDING BASEMENTS (IF APPLICABLE), (1) IN EACH SLEEPING ROOM, AND (1) OUTSIDE EACH SLEEPING AREA WITHIN THE IMMEDIATE VICINITY OF SLEEPING ROOMS. WHEN MORE THAN ONE ALARM IS REQUIRED, THE ALARMS SHALL BE INTERCONNECTED. THE ALARMS SHALL ALWAYS BE HARD WIRED TO PERMANENT POWER AND SHALL HAVE BATTERY BACK-UPS.

2. SWITCHES - FOR LIGHTING, FANS, ETC. SHALL BE INSTALLED AT HEIGHTS ILLUSTRATED ON THIS PLAN AND SHALL BE LOCATED A MINIMUM OF 4'-6" FROM DOOR OPENINGS TO ALLOW FOR THE PROPER INSTALLATION OF A DOOR SCHEDULE. SIMILAR DEVICES SHALL BE GROUPED TOGETHER AND INSTALLED THOROUGHLY FOR CONVENIENCE OF USE AND TO AVOID PLACEMENT WITHIN CENTERS OF WALL AREAS.



STANDARD ELECTRICAL BOX HEIGHTS

BDRM/BA3 I/L, HM OF/PR
SCALE: 1/8"=1'-0"



ELECTRICAL OUTLETS ARE NOT SHOWN UNLESS SPECIFICALLY CALLED FOR TO BE SWITCHED. PROVIDE OUTLETS IN REQUIRED VOLTAGES TO MEET PLAN REQUIREMENTS AND TO MEET ALL APPLICABLE CODES AND NATIONAL ELECTRICAL CODE CURRENT EDITIONS AND REQUIRED SPACING.

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

AUBREY

1ST FLOOR ELECTRICAL PLAN - ELEV "A"

DOVE HOMES, LLC
RALEIGH, NC
919-427-6991

GAR
RIGHT

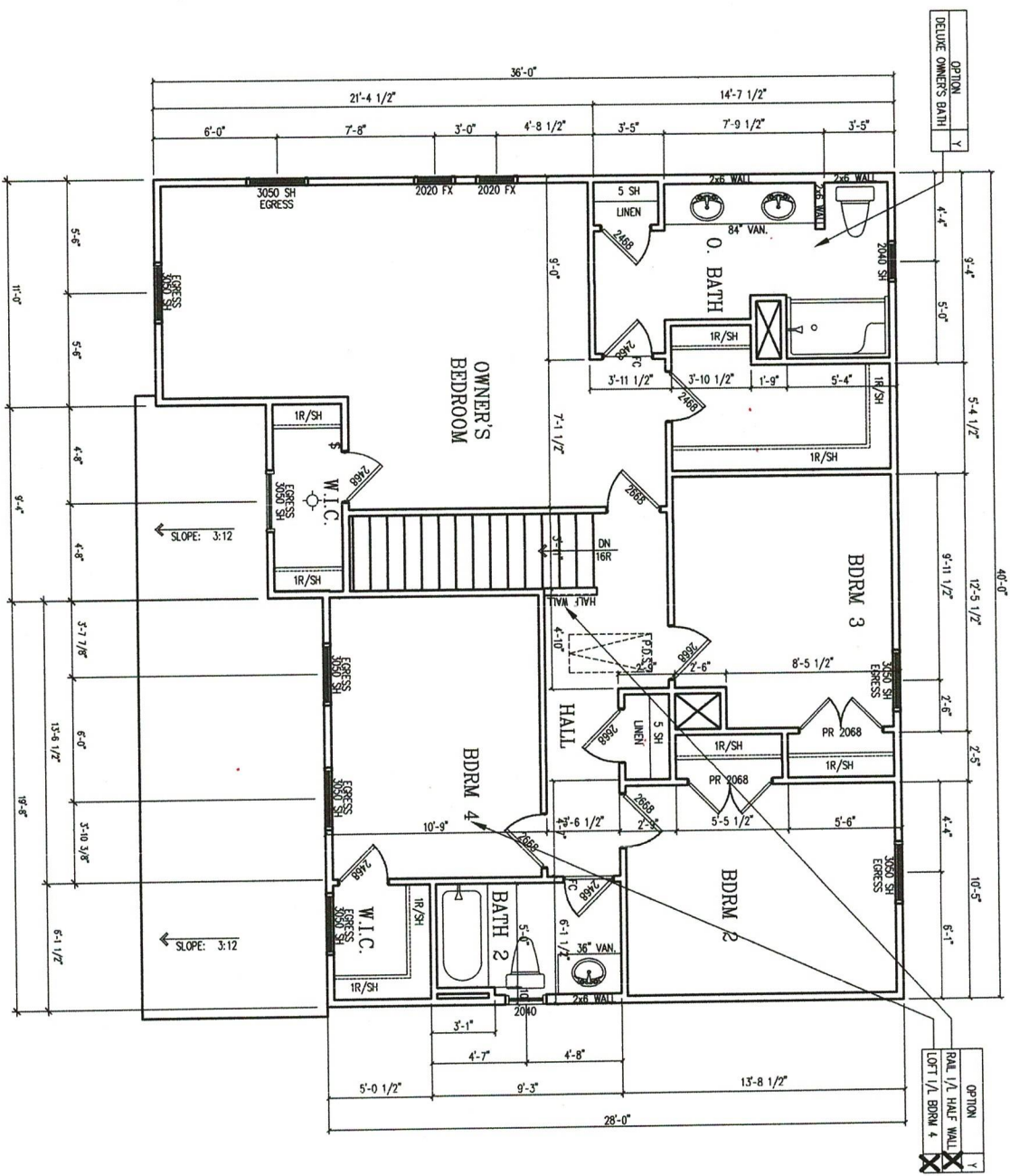
MASTER ISSUE DATE:
4/22/2020
DO NOT SCALE PRINTS
CONSTRUCTION SHALL BE
PER INDICATED DIMENSIONS
ONLY
LATEST REVISION DATE:

SHEET #
7.00

General Floor Plan Notes

General Floor Plan Notes shall apply unless noted otherwise on plan.

1. **Wall Heights:** Typically 9'-1-1/2" first floor and 8'-1-1/2" second floors U.N.O.. All walls are constructed using a double top plate. Splices at Double Top Plate do not need to occur at Vertical Studs but must be at least 24" apart from joint in other Top Plate layer. Special wall heights are noted on plans where they occur.
2. **Wall Thickness** is typically 4" at exterior walls, 3-1/2" at interior. 2x6 frame shall be used at walls that back up to plumbing fixtures. Walls greater than 10" high shall be framed with 2x6 framing or greater and will be noted as a special condition where it occurs on plan.
3. **Header height** shall be 7'-11" AFF at 9' plate height and 6'-11" at 8' plate height, unless noted otherwise.
4. **Soffits, Coffered Ceilings, Tray Ceilings** and other significant ceiling plan elements are shown on the floor plans and are denoted as single dashed lines. Unless specifically call out as included, Kitchens do not include soffits over wall cabinetry.
5. **Door & Window Frames**, where occurring near corners, shall be a minimum of 4-1/2" from corner. Except for walk-in closets with doors near a corner, doors at closets shall be centered on closet.
6. **Windows:** Shall have at least (1) window in each sleeping room, that meets egress. Shall be provided with tempered glass of hazardous glazing areas. Windows used at unfinished attic spaces as elevation decorative elements only shall have obscure glazing.
7. **Closets** for clothing or coat storage shall be equipped with 1 rod/shelf. Closets for linen shall have 5. Closets for pantries shall have 5 shelves. Consult spec level for solid or wire shelves.
8. **Stairs** shall have a minimum width dimensioned as 3'-7", treads shall be 10" deep, risers shall be a maximum of 7-3/4", unless noted otherwise.
9. **Handrails and Guards** at stairs shall be 34" above the finished surface of the ramp surface of the stair. Handrails at landings and overlocks of multilevel spaces shall be 42" above finished floor. Guards (pickets or bolusters) shall be spaced with no more than 4" between guards.
10. **Attic Access** shall be provided to attic areas that exceed 400 square feet and have a vertical height of 60" or greater. Minimum clear attic access shall be 20" x 30". Pull down stairs and access doors in knee walls meeting minimum criteria are also acceptable.
11. **Garage Door to Living Space** shall be 2'-8" x 6'-8" minimum size and shall be 20 minute fire rated and weather sealed.
12. **Garage Walls**, as a minimum, shall be separated from living space and living space attic by installing 1/2" gypsum board on the garage side of the wall.
13. **Garage Ceilings**, 5/8" type "X" gypsum board on the garage ceilings when headed space is above.



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

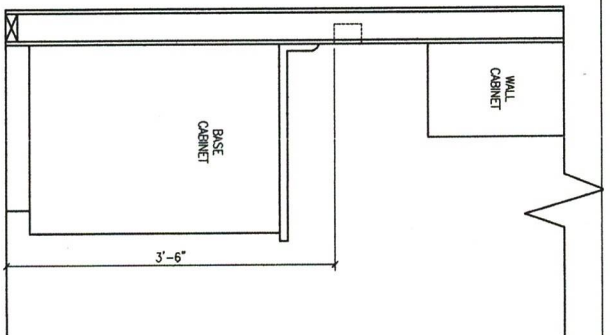
MASTER ISSUE DATE:
 4/22/2020
 DO NOT SCALE PRINTS
 CONSTRUCTION SHALL BE
 PER INDICATED DIMENSIONS
 ONLY
 LATEST REVISION DATE:

**GAR
 RIGHT**

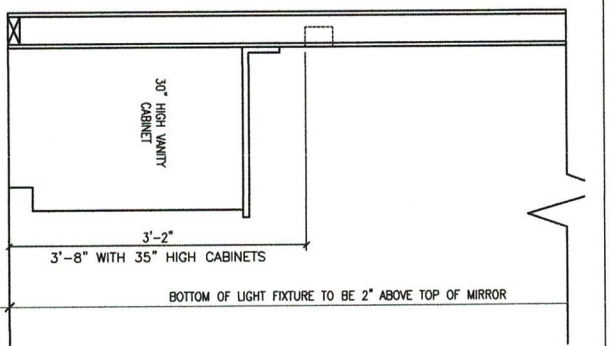
DOVE HOMES, LLC
 RALEIGH, NC
 919-427-6991

AUBREY
 2ND FLOOR PLAN - ELEVATION "A"

SHEET #
 8.00



SWITCH & RECEPTACLE BOXES OVER KITCHEN CABINETS



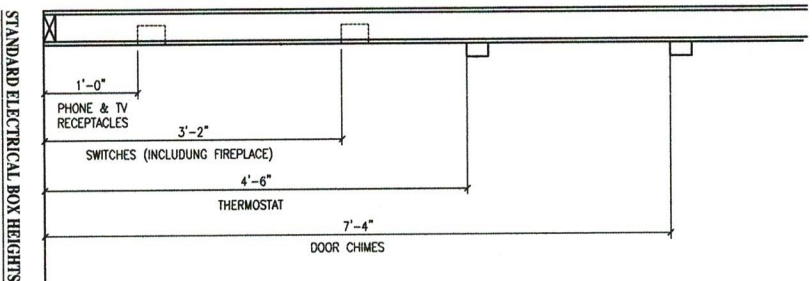
SWITCH & RECEPTACLE BOXES OVER BATH CABINETS

ELECTRICAL LEGEND	
OUTLET & SWITCH LOCATION WILL BE FOR CODE AND NOT FROM ROOM LOCATIONS	
⊕	STANDARD SWITCH
⊕	3 WAY SWITCH
⊕	4 WAY SWITCH
⊕	110 VOLT OUTLET
⊕	CEILING FAN RECEPTACLE
⊕	CEILING MOUNTED LIGHT FIXTURE
⊕	WALL MOUNTED LIGHT FIXTURE
⊕	2 WAY FLOOD LIGHT
⊕	EMERGENCY FAN
⊕	SMOKE DETECTOR

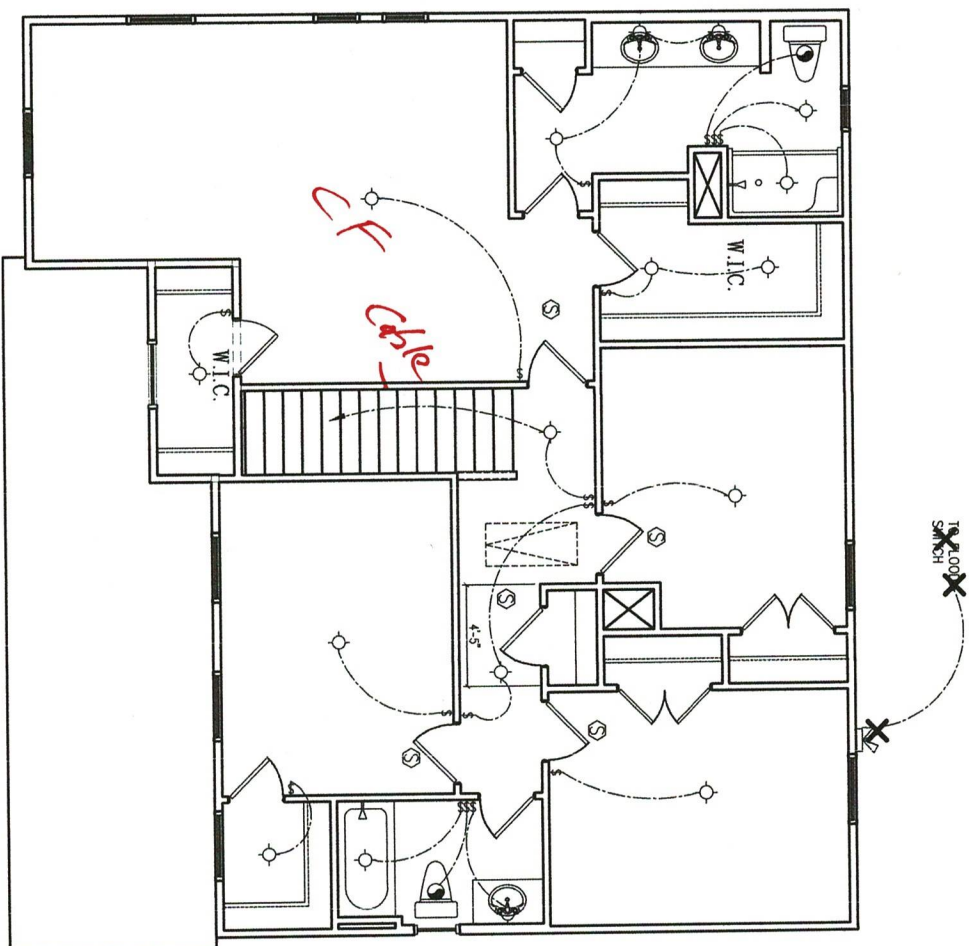
NOTE: THIS PLAN SHOWS LIGHTING AND LIFE SAFETY ITEMS ONLY. COMMENCEMENT OUTLETS ARE PLACED IN FIELD BY ELECTRICAL CONTRACTOR BASED ON REQUIREMENTS OUTLINED IN THE NATIONAL ELEC CODE.

GENERAL POWER AND LIGHTING NOTES:

- GENERAL POWER AND LIGHTING NOTES SHALL APPLY UNLESS NOTED OTHERWISE ON PLANS. ALL WORK SHALL BE INSTALLED PER THE 2018 NC STATE ELECTRICAL CODE AND THE NATIONAL ELECTRICAL CODE. ALARM BATTERIES SHALL MEET NFPA 72.
- SMOKE ALARMS - SHALL BE PROVIDED AS A MINIMUM OF (1) PER FLOOR, INCLUDING BASEMENTS (IF APPLICABLE), (1) IN EACH SLEEPING ROOM, AND (1) OUTSIDE EACH SLEEPING AREA WITHIN THE IMMEDIATE VICINITY OF SLEEPING ROOMS. WHEN MORE THAN ONE ALARM IS REQUIRED, THE ALARM DEVICES SHALL BE INTERCONNECTED IN SUCH A MANNER THAT ALL ALARMS SHALL BE HARD WIRE TO PERMANENT POWER AND SHALL HAVE BATTERY BACK-UPS.
 - SWITCHES - FOR LIGHTING, FANS, ETC. SHALL BE INSTALLED AT HEIGHTS ILLUSTRATED ON THIS PAGE AND SHALL BE LOCATED A MINIMUM OF 4' FROM DOOR OPENINGS TO ALLOW FOR THE PROPER INSTALLATION OF DOOR CLOSERS. SWITCHES SHALL BE INSTALLED TOGETHER AND INSTALLED THOROUGHLY FOR CONFORMANCE OF USE AND TO AVOID PLACEMENT WITHIN CENTERS OF WALL AREAS.



STANDARD ELECTRICAL BOX HEIGHTS



ELECTRICAL OUTLETS ARE NOT SHOWN UNLESS SPECIFICALLY CALLED FOR TO BE SWITCHED. PROVIDE OUTLETS IN REQUIRED VOLTAGES TO MEET PLAN REQUIREMENTS AND TO MEET ALL APPLICABLE CODES AND NATIONAL ELECTRICAL CODE CURRENT EDITIONS AND REQUIRED SPACING.

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

MASTER ISSUE DATE:
4/22/2020
DO NOT SCALE PRINTS.
CONSTRUCTION SHALL BE
PER INDICATED DIMENSIONS
ONLY.
LATEST REVISION DATE:

DOVE HOMES, LLC
RALEIGH, NC
919-427-6991

AUBREY

2ND FLOOR ELECTRICAL PLAN - ELEV "A"

SHEET #
9.00

DESIGN SPECIFICATIONS:

Construction Type: Commercial Residential

Applicable Building Codes:

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

Design Loads:

- Roof Live Loads
 - 1.1. Conventional 2x 20 PSF
 - 1.2. Truss 20 PSF
 - 1.2.1. Attic Truss 60 PSF
- Roof Dead Loads
 - 2.1. Conventional 2x 10 PSF
 - 2.2. Truss 20 PSF
- Snow 15 PSF
- Importance Factor 1.0
- Floor Live Loads
 - 4.1. Typ. Dwelling 40 PSF
 - 4.2. Sleeping Areas 30 PSF
 - 4.3. Decks 40 PSF
 - 4.4. Passenger Garage 50 PSF
- Floor Dead Loads
 - 5.1. Conventional 2x 10 PSF
 - 5.2. I-Joist 15 PSF
 - 5.3. Floor Truss 15 PSF
- Ultimate Wind Speed (3 sec. gust) 130 MPH
 - 6.1. Exposure B
 - 6.2. Importance Factor 1.0
 - 6.3. Wind Base Shear
 - 6.3.1. Vx =
 - 6.3.2. Vy =

7. 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

8. Seismic

- Site Class D
- Design Category C
- Importance Factor 1.0
- Seismic Use Group 1
- Spectral Response Acceleration
 - 8.5.1. Sms = %g
 - 8.5.2. Sm1 = %g
- Seismic Base Shear
 - 8.6.1. Vx =
 - 8.6.2. Vy =
- 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
- Arch/Mech Components Anchored No
- Lateral Design Control: Seismic Wind
- Assumed Soil Bearing Capacity 2000psf



STRUCTURAL PLANS PREPARED FOR:

AUBREY

PROJECT ADDRESS:

OWNER:
John Dove
2516 Brook Crossing Circle
Raleigh, NC 27606

DESIGNER:

Mike Mojewski, architect, PLLC
8227 Hillside Drive
Raleigh, NC 27612

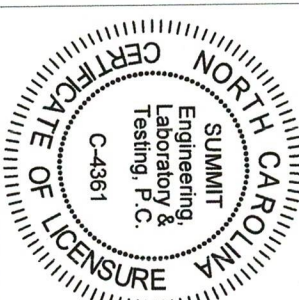
These drawings are to be coordinated with the architectural, mechanical, plumbing, electrical, and civil drawings. This coordination is not the responsibility of the structural engineering of record (SER). Should any discrepancies become apparent, the contractor shall notify SUMMIT Engineering, Laboratory and 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
APA	American Institute for Steel Construction	PT	Pressure Treated
AWA	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	SYP	Southern Yellow Pine
EE	Each End	TJ	Triple Joist
EOS	Edge of Slab	TOF	Top of Footing
EW	Each Way	TSP	Triple Stud Pocket
HDG	Hot Dipped Galvanized	TYP	Typical
NDS	Nation Design Spec. for Wood	UNO	Unless Noted Otherwise
NTS	Not to Scale	WFF	Welded Wire Fabric

SHEET LIST:

Sheet No.	Description
CS1	Cover Sheet, Specifications, Revisions
CS2	Specifications Continued
CS3	Revision Log
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

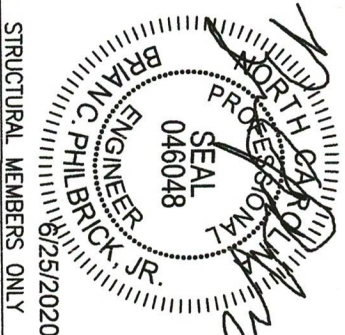


PROJECT
Aubrey RH
Coversheet
CLIENT
John Dove
2516 Brook Crossing Circle
Raleigh, NC 27606

CURRENT DRAWING
DATE: 6/24/2020
SCALE: 1/8"=1'-0"
PROJECT #: 2672-12R:28266
DRAWN BY: LBV
CHECKED BY: LAG

ORIGINAL INFORMATION
PROJECT # DATE
28266 6/23/20
REFER TO COVER SHEET FOR A COMPLETE LIST OF REVISIONS

SHEET
CS1



STRUCTURAL MEMBERS ONLY

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.
- All structural 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 Code (Special consideration shall be given to chapter 45 in wind zones 130 mph and above.)
- Footings sizes are based on a presumptive soil bearing capacity of 2000 PSF. The contractor is solely responsible for verifying the suitability of the site soil conditions at the time of construction.
- Maximum depth of unblended 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 bear in the middle third of the pier. Pilesters to be bonded to the perimeter foundation wall.
- Crawl space to be graded level and clear of all debris.
- Proved 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.

STRUCTURAL STEEL:

- Structural steel shall be fabricated and erected in accordance with the American Institute of Steel Construction "Code of Standard Practice for Steel Buildings and Bridges" and the manual of Steel Construction "Load Resistance Factor Design" latest editions.
- 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 D11.1. Electrodes for shop and field welding shall be class E70XX. All welding shall be performed by a certified welder per the above standards.

CONCRETE:

- Concrete shall have a normal weight aggregate and a minimum compressive strength (f'_c) at 28 days of 3000 psi, unless noted otherwise 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 noted otherwise.
- 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.

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, on 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

WOOD TRUSSES:

- The wood truss manufacturer/fabricator is responsible for the design of the wood trusses. The SER shall assume no responsibility for the correctness for the structural design for the wood trusses. SUMMIT shall be notified by the truss manufacturer/fabricator or the client of any discrepancies between the truss/joist layouts and the sealed structural plans prior to the start of construction.
- 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.
- All girder truss to girder truss connections, truss to top plate connections and uplift connections are the responsibility of the wood truss manufacturer/fabricator.
- 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

WOOD FRAMING:

- Solid sawn wood framing members shall conform to the specifications listed in the latest edition of the "National Design Specification for Wood Construction" (NDS). Unless otherwise noted, all wood framing members are designed to be Southern-Yellow-Pine (SYP) #2.
- LVL or PSL engineered wood shall have the following minimum design values:
 - $E = 1,900,000$ psi
 - $F_b = 2600$ psi
 - $F_v = 285$ psi
 - $F_c = 700$ psi
- Wood in contact with concrete, masonry, or earth shall be pressure treated in accordance with AWPA standard C-15. All other moisture exposed wood shall be treated in accordance with AWPA standard C-2
- Nails shall be common wire nails unless otherwise noted.
- Lag screws shall conform to ANSI/ASME standard B18.2.1-1981. Lead holes for lag screws shall be in accordance with NDS specifications.
- All beams shall have full bearing on supporting framing members unless otherwise noted.
- Exterior and load bearing stud walls are to be 2x4 SYP #2 @ 16" O.C. unless otherwise noted. Studs shall be continuous from the sole plate to the double top plate. Studs shall only be discontinuous at headers for window/door openings. A minimum of one king stud shall be placed at each end of the header. King studs shall be continuous.
- Individual studs forming a column shall be attached with one 10d nail @ 6" O.C. staggered. The stud column shall be continuous to the foundation or beam. The column shall be properly blocked at all floor levels to ensure proper load transfer.
- Multi-ply beams shall have each ply attached with (3) 12d nails @ 12" O.C.
- Fit-in beams, 4-ply beams and 3-ply side loaded beams shall be bolted together with (2) rows of 1/2" diameter through bolts staggered @ 24" O.C. unless noted otherwise. Min. edge distance shall be 2" and (2) bolts shall be located a min. 6" from each end of the beam.

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- 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" (HB-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.

EXTERIOR WOOD FRAMED DECKS:

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

WOOD STRUCTURAL PANELS:

- Fabrication and placement of structural wood sheathing shall be in accordance with the APA Design/Construction Guide "Residential and Commercial," and all other applicable APA standards.
- All structurally required wood sheathing shall bear the mark of the 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 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.
- Wood floor sheathing shall be APA rated sheathing exposure 1 or 2. Attach sheathing to its supporting framing with (1)-8d CC ringshank nail at 6" O.C. at panel edges and at 12" O.C. in panel field unless otherwise noted on the plans. Sheathing shall be applied perpendicular to framing. Sheathing shall have a span rating consistent with the framing spacing. Use suitable edge support by use of T&G plywood or lumber blocking unless otherwise noted. Panel end joints shall occur over framing. Apply building paper over the sheathing as required by the state Building Code.
- Sheathing shall have a 1/8" gap at panel ends and edges as recommended in accordance with the APA.

STRUCTURAL FIBERBOARD PANELS:

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



6/25/2020
STRUCTURAL MEMBERS ONLY

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PROJECT
Aubrey RH
Coversheet
CLIENT
John Dove
2516 Brook Crossing Circle
Raleigh, NC 27606

CURRENT DRAWING
DATE: 6/24/2020
SCALE: 1/8"=1'-0"
PROJECT #: 2672-12R-28266
DRAWN BY: LBV
CHECKED BY: LUG

ORIGINAL INFORMATION
PROJECT # DATE
28266 6/23/20

REFER TO COVER SHEET FOR A COMPLETE LIST OF REVISIONS

SHEET
CS2

FOUNDATION NOTES:

1. FOUNDATIONS TO BE CONSTRUCTED IN ACCORDANCE WITH CHAPTER 4 OF THE 2009 NC RESIDENTIAL BUILDING CODE.
2. STRUCTURAL CONCRETE TO BE F_c = 3000 PSI, PREPARED AND PLACED IN ACCORDANCE WITH ACI STANDARD 318.
3. FOOTINGS TO BE PLACED ON UNDISTURBED EARTH, BEARING A MINIMUM OF 2" BELOW ADJACENT FINISHED GRADE, OR AS OTHERWISE DIRECTED BY THE CODE ENFORCER'S 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.
5. ALL REINFORCING STEEL SHALL BE GRADE 60 BARS CONFORMING TO ASTM A615 AND SHALL HAVE A MINIMUM COVER OF 3".
6. FOOTINGS AND PIERS SHALL BE CENTERED UNDER THEIR RESPECTIVE ELEMENTS. PROVIDE 2" MINIMUM FOOTING PROJECTION FROM THE FACE OF MASONRY.
7. MAXIMUM DEPTH OF UNBALANCED FILL AGAINST MASONRY WALLS TO BE AS SPECIFIED IN SECTION R404.1 OF THE 2009 NC RESIDENTIAL BUILDING CODE.
8. PLASTER TO BE BONDED TO FERRETER FOUNDATION WALL.
9. PROVIDE FOUNDATION WATERPROOFING, AND DRAIN WITH POSITIVE SLOPE TO OUTLET AS REQUIRED BY SITE CONDITIONS.
10. PROVIDE FERRETER INSULATION FOR ALL FOUNDATIONS PER 2009 NC RESIDENTIAL BUILDING CODE.
11. CORED FOUNDATION WALL AS REQUIRED TO ACCOMMODATE BRICK VENEER.
12. CRAWL SPACE TO BE GRADED LEVEL & CLEARED OF ALL DEBRIS.
13. FOUNDATION ANCHORAGE SHALL BE A MIN OF 1/2" DIA. ANCHOR BOLTS AND SHALL EXTEND A MIN OF 1" INTO MASONRY OR CONCRETE. BOLTS SHALL BE 6"-Ø OC AND WITH N 1/2" OF ALL FLAT PLATES MIN (2) ANCHOR BOLTS PER FLAT SECTION TO BE 8"x6" MASONRY, TYPICAL (UNO).
14. ALL PIERS TO BE 16"x16" MASONRY AND ALL PLASTER TO BE 8"x6" MASONRY, TYPICAL (UNO).
15. WALL FOOTINGS TO BE CONTINUOUS CONCRETE SIZES PER STRUCTURAL PLAN.
16. 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. SPLITIT MUST BE PROVIDED THE OPPORTUNITY TO REVIEW THE FOOTING DESIGN PRIOR TO CONCRETE PLACEMENT.

1. ALL FOOTINGS & SLABS ARE TO BEAR ON UNDISTURBED SOIL OR 95% COMPACTED FILL, VERIFIED BY ENGINEER OR CODE OFFICIAL.

REINFORCE GARAGE PORTAL WALLS PER FIGURE R602.10.43 OF THE 2009 NCRC.

NOTE: ALL EXTERIOR FOUNDATION DIMENSIONS ARE TO FINISHING AND NOT BRICK VENEER UNO.

NOTE: BEAM POCKETS MAY BE SUBMITTED FOR 8"x6" CHU PIERS AT GIRDER ENDS. BEAM POCKETS SHALL HAVE A MIN OF 4" SOLID MAS. BEARING.

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

CRAWL SPACE VENTILATION:
 52 SQ FT / 50" x 52 SQ FT REQ'D.
 52 SQ FT / 60" x 48" PER VENT = 12 VENTS REQ'D.
 NOTE: WHERE AN APPROVED VAPOR BARRIER IS INSTALLED OVER GROUND SURFACE, THE REQ'D VENTILATION MAY BE REDUCED BY 50%.

3/6"x24" MIN CRAWL SPACE ACCESS DOOR LOCATED BY BUILDER PROVIDE MIN (2) 2x10 HEADER OVER DOOR W/ MIN 4" BEARING EE

REFER TO BRACED WALL PLAN FOR PANEL LOCATIONS AND ANY REQUIRED HOLD-DOWNS. ADDITIONAL INFORMATION PER SECTION R602.10.4 AND FIGURE R602.10.4(1) OF THE 2009 NCRC.

NOTE: FOUNDATION ANCHORAGE HAS BEEN DESIGNED TO RESIST THE CONTINUOUS UNID UP/LT LOAD PATH IN ACCORDANCE WITH METHOD 3 OF SECTION R602.3.5 OF THE 2009 NCRC.

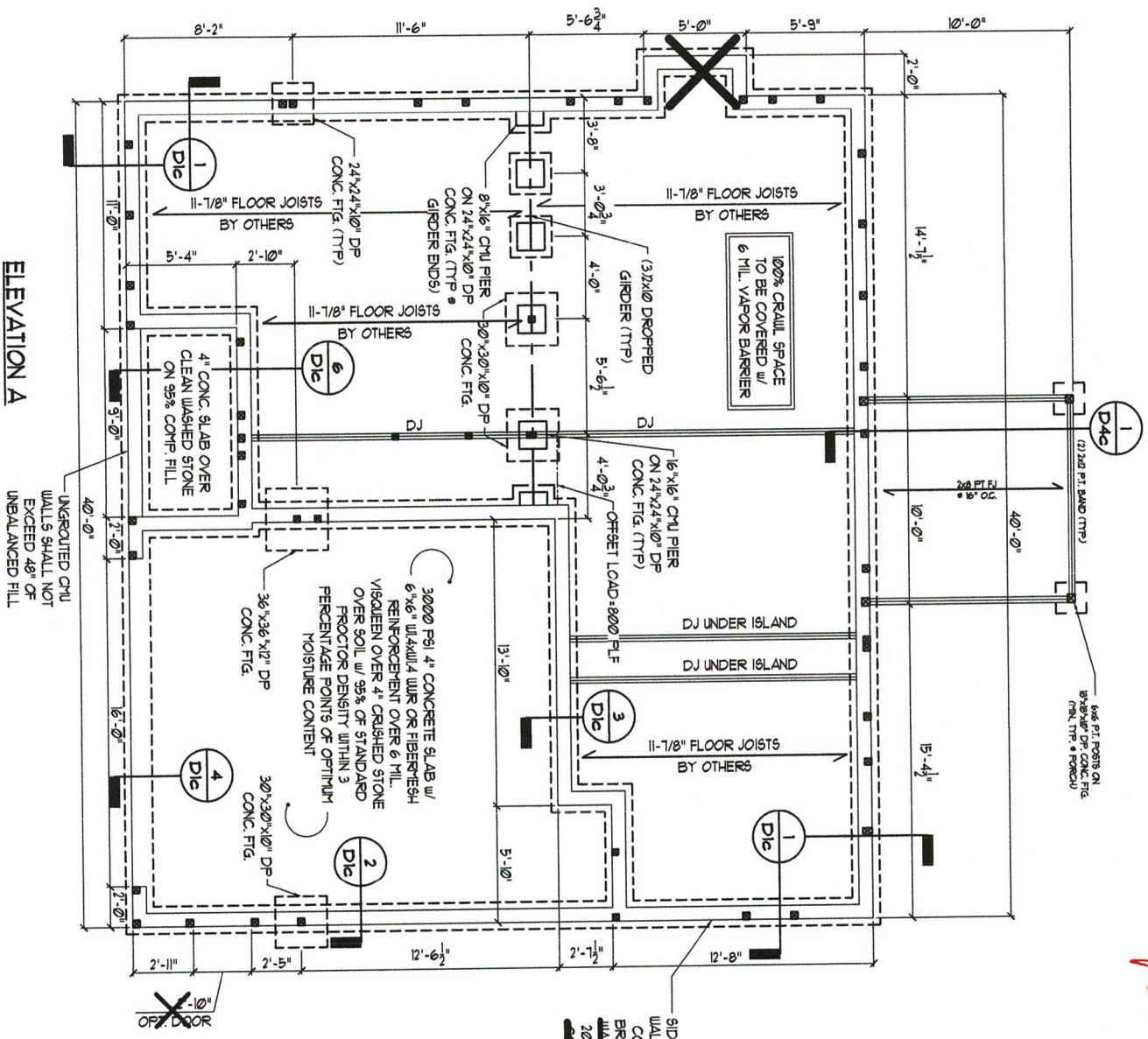
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STRUCTURAL MEMBERS ONLY
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STRUCTURAL ANALYSIS BASED ON 2018 NCRC.

CRAWL SPACE FOUNDATION

SCALE: 1/8"=1'



ELEVATION A

Handwritten notes:
 Craw / Foundation
 Brick Front
 2" Farged Block
 for Sides/Rear

Professional Engineer Seal for Philbrick, Jr. with date 6/25/2020.

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

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

PROJECT: **Aubrey RH**
Crawl Space Fnd.
 CLIENT: **John Dove**
 2516 Brook Crossing Circle
 Raleigh, NC 27606

CURRENT DRAWING
 DATE: 6/24/2020
 SCALE: 1/8"=1'-0"
 PROJECT #: 2672-12R-28266
 DRAWN BY: LBV
 CHECKED BY: LAG

ORIGINAL INFORMATION
 PROJECT # 28266
 DATE 6/23/20

REFER TO COVER SHEET FOR A COMPLETE LIST OF REVISIONS

SHEET **S1.0C**

GENERAL STRUCTURAL NOTES:

- CONSTRUCTION SHALL CONFORM TO 2018 NC RESIDENTIAL BUILDING CODE.
- 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:
MICROALLOY (LVL), $F_y = 2600$ PSI, $F_u = 285$ PSI, $E = 1.9 \times 10^6$ PSI
PARALLEL (LVL), $F_y = 2600$ PSI, $F_u = 290$ PSI, $E = 1.9 \times 10^6$ PSI
ALL WOOD MEMBERS SHALL BE 2" STYP UNLESS NOTED ON PLAN.
- ALL STUD COLUMNS AND JOISTS SHALL BE 2" STYP (UNO).
- ALL BEAMS SHALL BE SUPPORTED WITH A (2) 2x4 @ 8" STYP STUD COLUMN AT EACH END UNLESS NOTED OTHERWISE.
- FOUNDATION ANCHORAGE SHALL BE CONSTRUCTED PER NC RESIDENTIAL BUILDING CODE 2018 SECTION 403.16, 12" DIA BOLTS SPACED AT 6"-0" CENTERS WITH A 1" MINIMUM EMBEDMENT INTO MASONRY OR CONCRETE ANCHOR BOLTS SHALL BE 1" FROM THE END OF EACH FLATE SECTION.
- POSITIVE AND NEGATIVE WALL CLADDING DESIGN VALUES FOR 100 MPH CATEGORY B, AND HR4 30 FEET OR LESS ARE 182 AND 240 RESPECTIVELY.
- CONTRACTOR TO PROVIDED LOOKOUTS WHEN CEILING JOISTS SPAN PERPENDICULAR TO RAFTERS.
- FLITCH BEAMS, 4-PLY LVL'S AND 3-PLY SIDE LOADED LVL'S SHALL BE BOLTED TOGETHER WITH 1/2" DIA THRU BOLTS SPACED AT 24" O.C. (MAX) STAGGERED, MIN EDGE DISTANCE SHALL BE 2" AND (2) BOLTS SHALL BE LOCATED A MINIMUM 6" FROM EACH END OF THE BEAM EQUIVALENT SCREWS MAY BE SUBSTITUTED PER MANUFACTURER'S SPECIFICATIONS.
- ALL NON-LOAD BEARING HEADERS SHALL BE (1) FLAT 2x4 STYP 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 STYP 2" DROPPED (UNO).

ALL HEADERS WHERE BRICK IS USED, TO BE:
① Lintel (UNO)

Lintel Schedule:

STEEL ANGLES TO HAVE MIN 4" BEARING ONTO BRICK AT EACH END.

- 1 L3x3x1/4"
- 2 L3x3x1/4"
- 3 L3x3-1/2x5/16"
- 4 L3x3-1/2x5/16" ROLLED OR EQUAL ARCHED COMPONENT.

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

NOTE: SHADED WALLS INDICATED LOAD BEARING WALLS.

TWO STORY WALL NOTE (BALLOON BRACING):
2x4 STUDS @ 12" O.C. OR 2x6 STUDS @ 16" O.C. w/ CROSS BRACING @ 6'-0" O.C. VERTICALLY.

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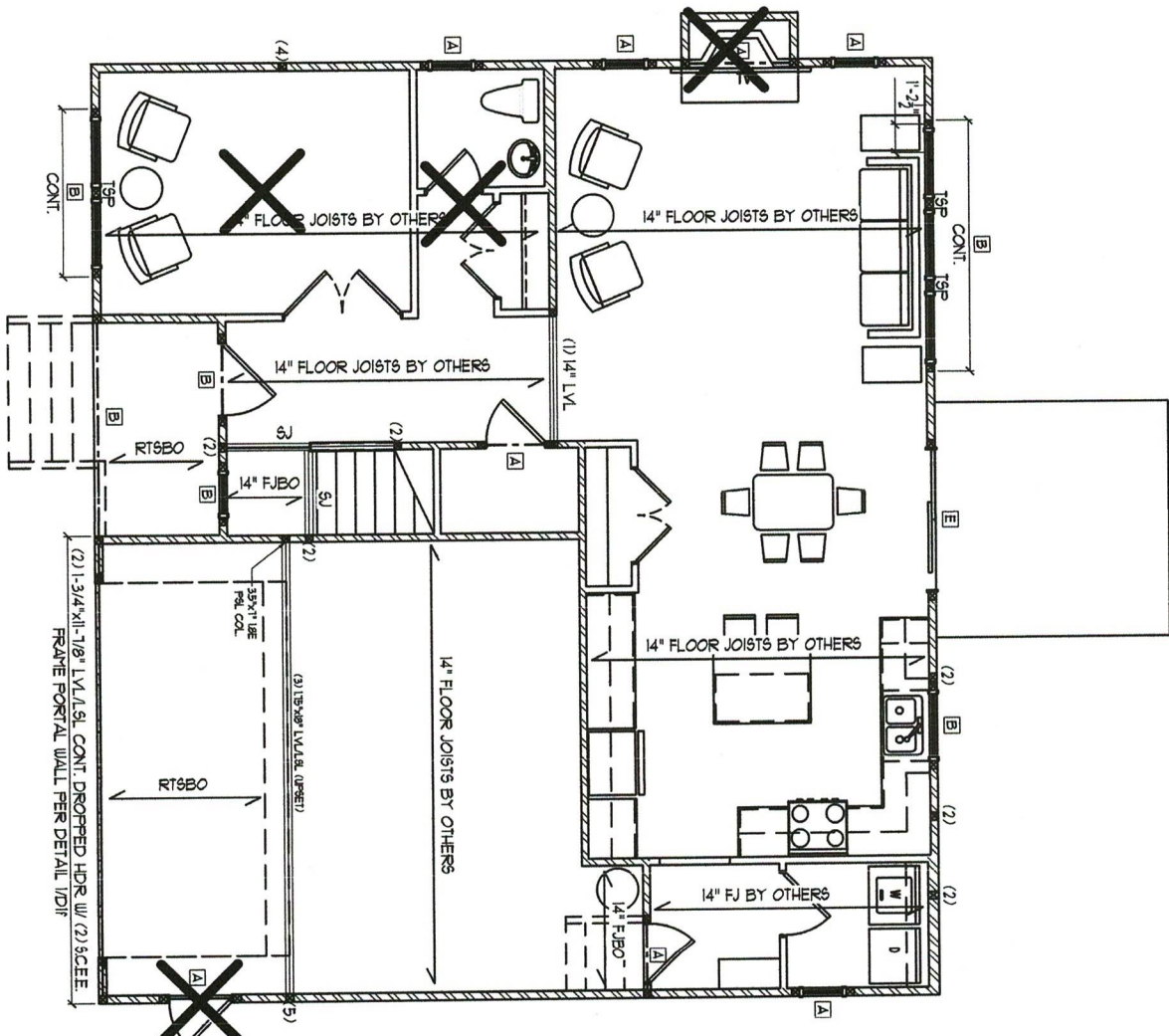
STRUCTURAL ANALYSIS BASED ON 2018 NCRC.

FIRST FLOOR FRAMING PLAN

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

TAG	SIZE	JACKS (EE)
A	(2) 2x6	(1)
B	(2) 2x8	(2)
C	(2) 2x10	(2)
D	(2) 2x12	(2)
E	(2) 3-1/4" LVL LVL	(3)
F	(3) 2x6	(1)
G	(3) 2x10	(2)
H	(3) 2x10	(2)
I	(3) 2x12	(3)

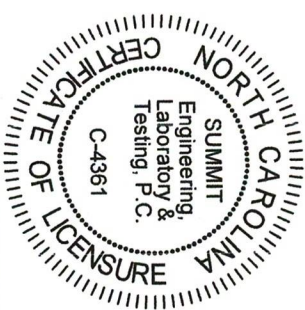
NOTES:
1. HEADER SIZES SHOWN ON PLANS ARE MINIMUMS. GREATER HEADER SIZES MAY BE USED FOR EASE OF CONSTRUCTION.
2. ALL HEADERS TO BE DROPPED UNLESS NOTED OTHERWISE.
3. STUD COLUMNS NOTED ON PLAN OVERSIDE STUD COLUMNS LISTED ABOVE UNLESS NOTED OTHERWISE.
4. KING STUDS SHALL BE FRAMED PER TABLE R602.2.5)
5. REMOTE D UNLESS NOTED OTHERWISE.



ELEVATION A



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WWW.SUMMIT-COMPANIES.COM



PROJECT
Aubrey RH
First Floor Framing
CLIENT
John Dove
2516 Brook Crossing Circle
Raleigh, NC 27606

CURRENT DRAWING
DATE: 6/24/2020
SCALE: 1/8"=1'-0"
PROJECT #: 2672-12R-28266
DRAWN BY: LBV
CHECKED BY: LAG

ORIGINAL INFORMATION
PROJECT # DATE
28266 6/23/20

REFER TO COVER SHEET FOR A COMPLETE LIST OF REVISIONS

SHEET
S3.0

STRUCTURAL MEMBERS ONLY
DATE: 6/25/2020
BRIAN C. PHILBRICK, JR.
ENGINEER
046048
SEAL
NORTH CAROLINA
PROFESSIONAL

HEADER SCHEDULE		
TAG	SIZE	JACKS (EE)
A	(2) 2x6	(1)
B	(2) 2x6	(2)
C	(2) 2x10	(2)
D	(2) 2x12	(2)
E	(2) 9-1/4" L.B.L.V.L.	(3)
F	(3) 2x6	(1)
G	(3) 2x6	(2)
H	(3) 2x10	(2)
I	(3) 2x12	(3)

NOTES:
 1. HEADER SIZES SHOWN ON PLANS ARE MINIMUMS, GREATER HEADER SIZES MAY BE USED FOR EASE OF CONSTRUCTION.
 2. ALL HEADERS TO BE DROPPED UNLESS NOTED OTHERWISE.
 3. STUD COLUMNS NOTED ON PLAN OVERRIDE STUD COLUMNS LISTED ABOVE UNLESS NOTED OTHERWISE.
 4. KING STUDS SHALL BE FRAMED PER TABLE R602.3(5) SUBNOTE D UNLESS NOTED OTHERWISE.

ALL HEADERS WHERE BRICK IS USED, TO BE:
 ① Lintel (UNO)

LINTEL SCHEDULE:

STEEL ANGLES TO HAVE MIN 4" BEARING ONTO BRICK AT EACH END.

- ① L3x3x1/4"
- ② L3x3x1/4"
- ③ L3x3-1/2x5/16"
- ④ L3x3-1/2x5/16" ROLLED OR EQUAL ARCHED COMPONENT.

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

NOTE: SHADED WALLS INDICATED LOAD BEARING WALLS.

THIRD STORY WALL NOTE (BALLCON FRAMING):
 2x4 STUDS @ 12" O.C. OR 2x6 STUDS @ 16" O.C. w/ CROSS BRACING @ 6'-0" O.C. VERTICALLY.

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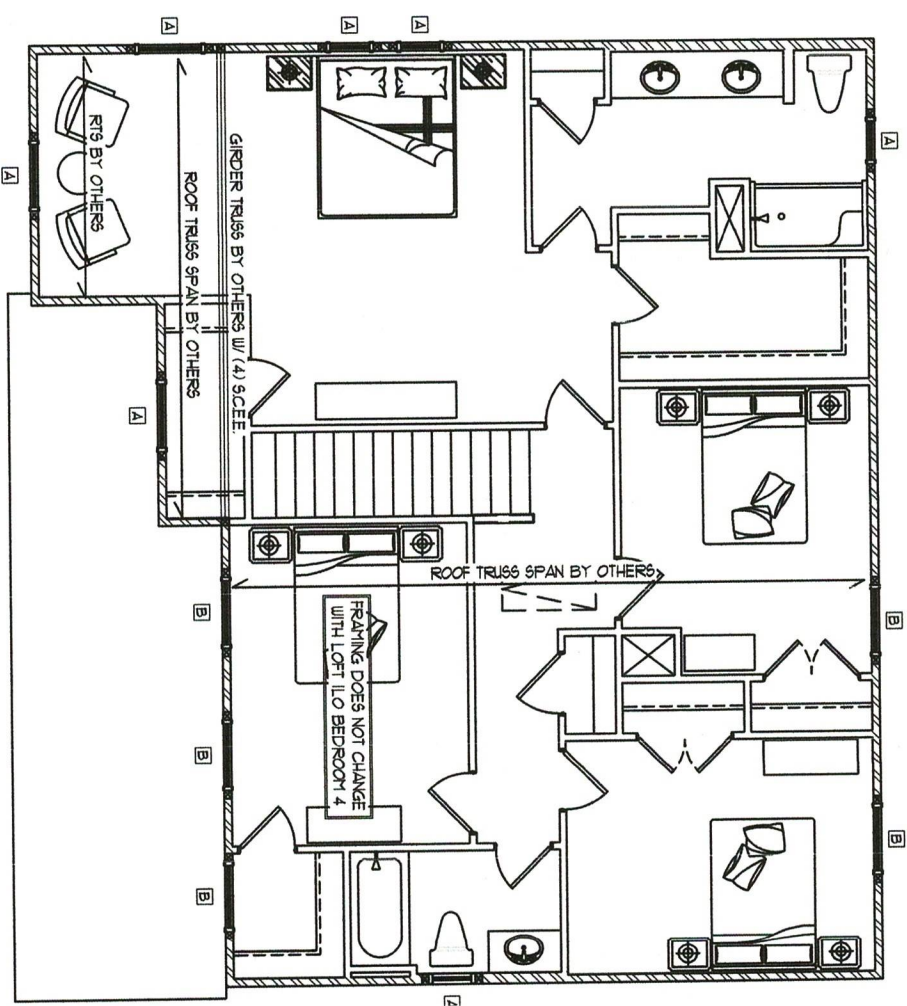
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STRUCTURAL ANALYSIS BASED ON 2018 NCRS.

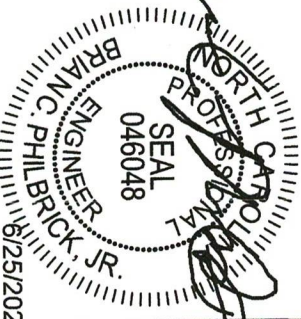
SECOND FLOOR FRAMING PLAN

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



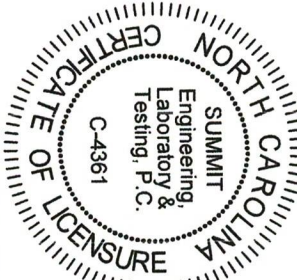
ELEVATION A

Handwritten signature: Brian C. Philbrick



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 WWW.SUMMIT-COMPANIES.COM



PROJECT
Aubrey RH
Second Floor Framing
 CLIENT
John Dove
2516 Brook Crossing Circle
Raleigh, NC 27606

CURRENT DRAWING
 DATE: 6/24/2020
 SCALE: 1/8"=1'-0"
 PROJECT #: 2672-12R-28266
 DRAWN BY: LBV
 CHECKED BY: LAG

ORIGINAL INFORMATION
 PROJECT # DATE
 28266 6/23/20
 REFER TO COVER SHEET FOR A COMPLETE LIST OF REVISIONS

SHEET
S4.0

NOTE: 5/17 OF ALL SHOWN GIRDER TRUSSES TO ALIGN WITH INSIDE FACE OF WALL (INDO)

NOTE: ROOF TRUSSES SHALL BE SPACED TO SUPPORT FALSE FRAMED DORMER WALLS (INDO)

MAX GIRDER TRUSS REACTION (LBS)			
NO TIE, 5/17 & TOP PLATE			
* OF PLY	2x4 WALL	2x6 WALL	
2	324	708	
3	182	393	
4	102	147	
WITH TIE, 5/17 & TOP PLATE			
2	166	363	
3	92	149	
4	55	94	

GIRDER TRUSS PLY'S SHOWN ARE FOR ILLUSTRATION ONLY. PLEASE REFER TO TRUSS LAYOUT DRAWINGS PROVIDED BY TRUSS MANUF. FOR ACTUAL NUMBER OF PLY'S REQ'D.

TRUSS UPLIFT CONNECTOR SCHEDULE

TRUSS UPLIFT	ROOF TO WALL	FLOOR TO FLOOR	FLOOR TO RD
600 LBS	H2A	PER WALL SHEATHING & FASTENERS	DTTZ
1000 LBS	(2) H2A	CMS (END = H)	DTTZ
1400 LBS	H2B	CMS (END = H)	DTTZ
2000 LBS	(2) H2B	(2) CMS (END = H)	DTTZ
2500 LBS	(2) H2B	(2) CMS (END = H)	H14
3400 LBS	L673-5032	H8123	H14

- ALL PRODUCTS LISTED ARE SPECIFIC BRANDS-THE EQUIVALENT PRODUCTS MAY BE USED PER MANUFACTURER'S SPECIFICATIONS.
- UPLIFT VALUES LISTED ARE FOR 5/17 & GRADE INTERFACES.
- REFER TO TRUSS LAYOUT PER VALUE FOR UPLIFT VALUES AND TRUSS TO TRUSS CONNECTIONS CONNECTIONS SPECIFIED BY TRUSS MANUFACTURER EXCEED THOSE LISTED ABOVE.
- CONTACT 5/17 FOR REQUIRED CONNECTIONS WHEN LOADS EXCEED THOSE LISTED ABOVE.

NOTE: TRUSS UPLIFT LOADS SHALL BE DETERMINED PER TRUSS MANUFACTURER IN ACCORDANCE WITH SECTION R802.11 WALL SHEATHING AND FASTENERS HAVE BEEN DESIGNED TO RESIST THE WIND UPLIFT LOAD PATTERN IN ACCORDANCE WITH METHOD 3 OF SECTION R802.11 OF THE 2018 NCRC. REFER TO BRACKET WALL PLANS FOR SHEATHING AND FASTENER REQUIREMENTS.

REFER TO DETAIL 503F FOR ETERNAL RETURN OR SHED ROOF FRAMING REQUIREMENTS. (TYP FOR ROOMS PROVIDING HANDICAP FROM STRUCTURE)

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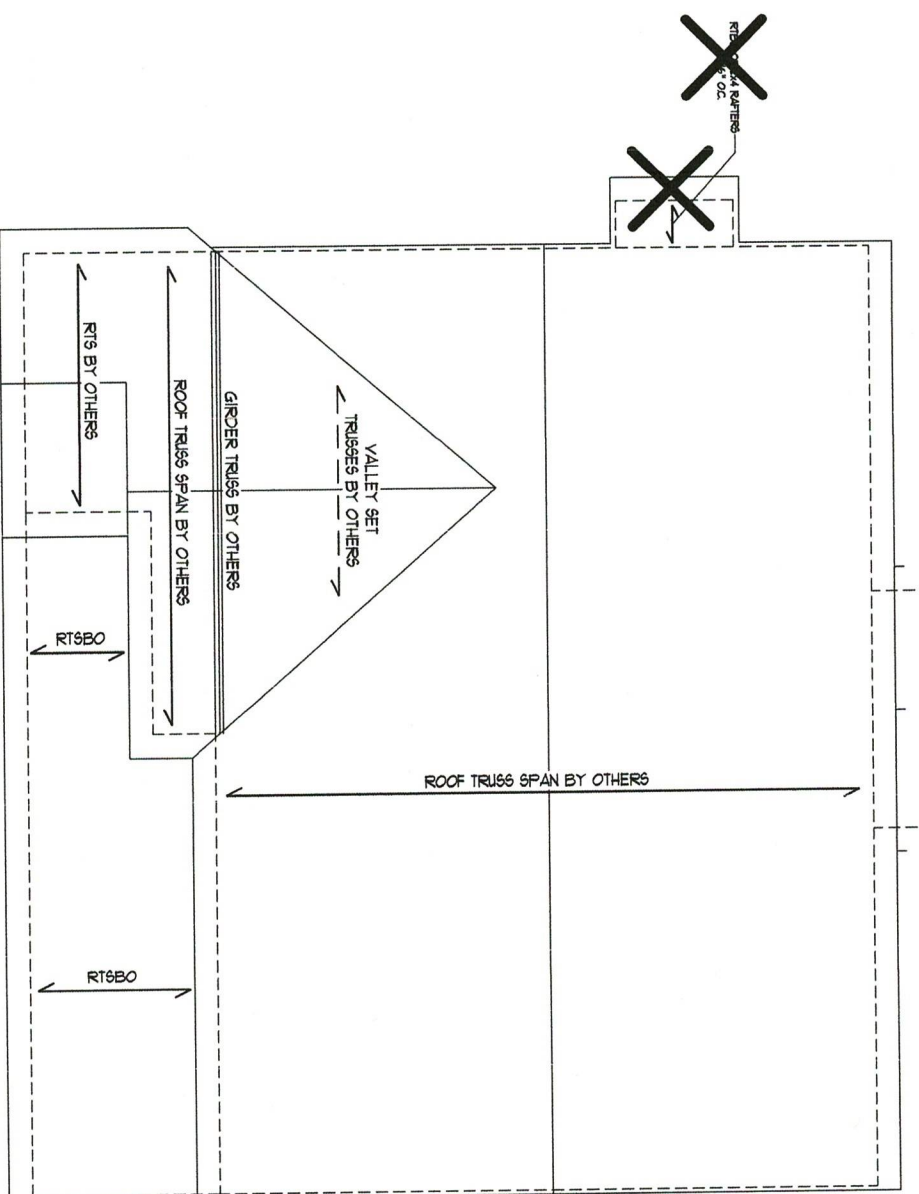
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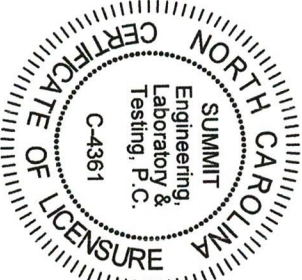
STRUCTURAL ANALYSIS BASED ON 2018 NCRC.

ROOF FRAMING PLAN

SCALE: 1/8"=1'



ELEVATION A



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RALEIGH, NC 27603
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WWW.SUMMIT-COMPANIES.COM

PROJECT
Aubrey RH
Roof Framing Plan
CLIENT
John Dove
2516 Brook Crossing Circle
Raleigh, NC 27606

CURRENT DRAWING
DATE: 6/24/2020

SCALE: 1/8"=1'-0"
PROJECT #: 2672-128:28266
DRAWN BY: LAV
CHECKED BY: LAG

ORIGINAL INFORMATION
PROJECT # DATE
28266 6/23/20
REFER TO COVER SHEET FOR A COMPLETE LIST OF REVISIONS

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STRUCTURAL MEMBERS ONLY
6/25/2020



REQUIRED BRACED WALL PANEL CONNECTIONS			
METHOD	MIN THICKNESS	REQUIRED CONNECTION	INTERMEDIATE SUPPORTS
CS-UWP	3/8"	6d COTTON WALLS • 6" O.C.	6d COTTON WALLS • 12" O.C.
GS	1/2"	5d COOLER WALLS** • 1" O.C.	5d COOLER WALLS** • 1" O.C.
WSP	3/8"	6d COTTON WALLS • 6" O.C.	6d COTTON WALLS • 12" O.C.
FF	1/8"	PER FIGURE R6-02101	PER FIGURE R6-02101

BRACED WALL NOTES:

1. WALLS SHALL BE DESIGNED IN ACCORDANCE WITH SECTION R6-02102 FROM THE 2006 NORTH CAROLINA RESIDENTIAL CODE WITH AMENDED PERMISSIVE RULES.
2. WALLS ARE DESIGNED FOR SEISMIC ZONES A-C AND ULTIMATE UNID SPEEDS OF 150 MPH.
3. BRACING MATERIALS, METHODS AND FASTENERS SHALL BE IN ACCORDANCE WITH TABLE R6-02101.
4. 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.
5. REFER TO ARCHITECTURAL PLAN FOR DOOR/WINDOW OPENING SIZES. THE INTERIOR SIDE OF EXTERIOR WALLS AND BOTH SIDES OF INTERIOR WALLS SHALL BE SHEATHED CONTINUOUSLY WITH MINIMUM 1/2" GYPSUM BOARD (NO).
6. FOR CONTINUOUS SHEATHING METHOD, EXTERIOR WALLS SHALL BE SHEATHED ON ALL SHEATHABLE SURFACES INCLUDING INFILL AREAS, AND ON GABLE END WALLS.
7. FLOORS SHALL NOT BE CANTILEVERED MORE THAN 24" BEYOND THE FOUNDATION OR BEARING WALL BELOW WITHOUT ADDITIONAL ENGINEERING CALCULATIONS.
8. CONCRETE AND BRACED WALL LINE INTERSECTIONS SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION R6-02103(B).
9. A BRACED WALL PANEL SHALL BE LOCATED WITHIN 12 FEET OF EACH CORNER OF EACH ELEVATION VIEW OF THE HOUSE OR EACH END OF THE CIRCUMSCRIBED RECTANGLES.
10. THE EDGE DISTANCE BETWEEN BRACED WALL PANELS SHALL NOT EXCEED 21 FEET.
11. ADEQUATE CONTINUOUS LOAD PATHS FOR TRAYSER OF BRACING LOADS AND UPLIFT LOADS SHALL COMPLY WITH SECTION R6-02104.
12. MASONRY OR CONCRETE STEEL WALLS WITH A LENGTH OF 40' OR LESS SUPPORTING A BRACED WALL PANEL SHALL BE DESIGNED IN ACCORDANCE WITH FIGURE R6-02104.3.
13. BRACED WALL PANEL CONNECTIONS TO FLOOR/CEILING SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION R6-02104.
14. BRACED WALL PANEL CONNECTIONS TO ROOF SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION R6-02104.5.
15. CRIPPLE WALLS AND WALK OUT BASEMENT WALLS SHALL BE DESIGNED IN ACCORDANCE WITH SECTION R6-02104.6.
16. BALLOON FRAMED WALLS SHALL BE DESIGNED IN ACCORDANCE WITH SECTION R6-02104.6 WITH A MAXIMUM LENGTH OF 20 FEET.
17. FOR WALLS SHALL BE DESIGNED IN ACCORDANCE WITH FIGURE R6-02101 (NO).
18. ON SCHEMATIC SHADDED WALLS INDICATE BRACED WALL PANELS.
19. ABBREVIATIONS:

GS = GYPSUM BOARD
CS-UWP = CONT. SHEATHED
FF = FORAL FRAMED

WSP = WOOD STRUCTURAL PANEL
ENG = ENGINEERED SOLUTION

THESE PLANS ARE DESIGNED IN ACCORDANCE WITH ARCHITECTURAL PLANS PROVIDED BY MIKE MAJERSKI AIA COMPLETED/REVISED ON 5/5/2020. IT IS THE RESPONSIBILITY OF THE CLIENT TO NOTIFY SUMMIT ENGINEERING LABORATORY (TEL: 919.380.9993) OF ANY CHANGES MADE TO THE ARCHITECTURAL PLANS PRIOR TO CONSTRUCTION. SUMMIT ENGINEERING LABORATORY CANNOT GUARANTEE THE ADEQUACY OF THESE STRUCTURAL PLANS WHEN USED WITH ARCHITECTURAL PLANS DATED DIFFERENTLY THAN THE DATE LISTED ABOVE.

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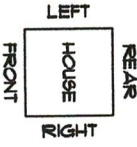
STRUCTURAL ANALYSIS BASED ON 2018 NCRC.

FIRST FLOOR BRACING PLAN

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

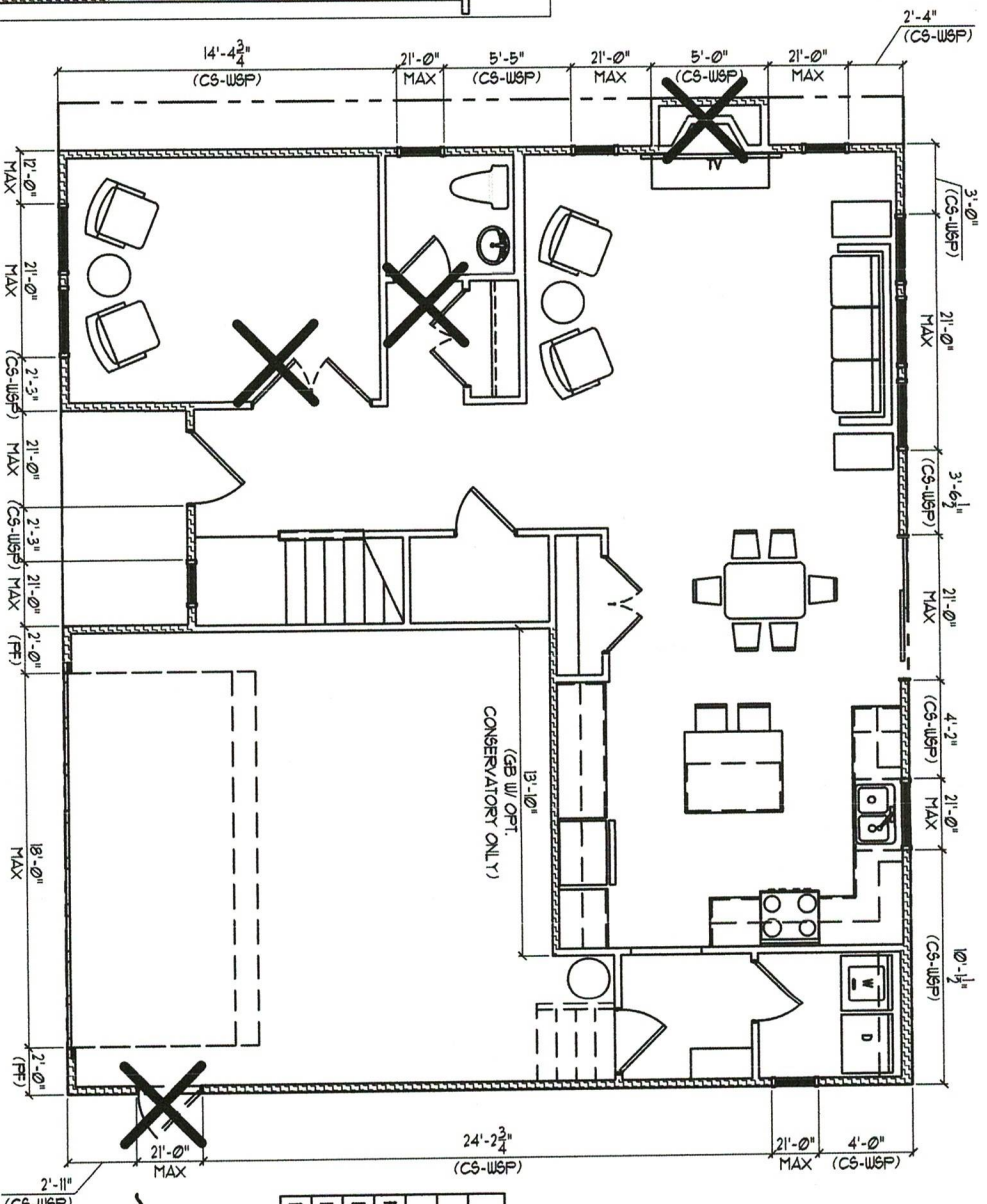
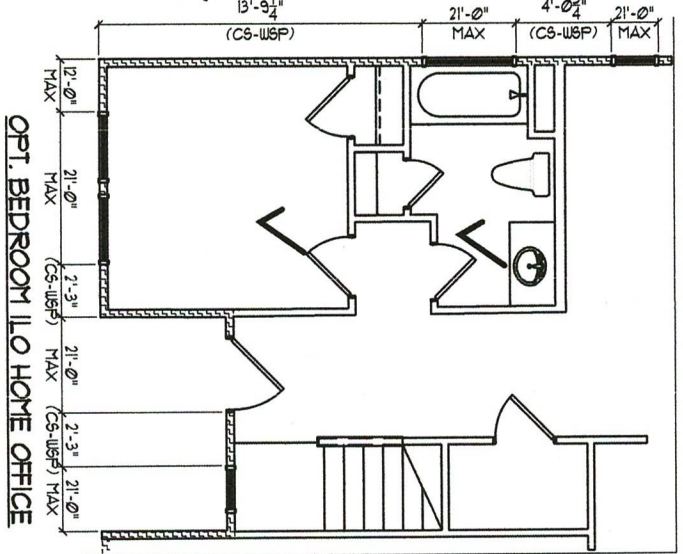
NOTE: WALL SHEATHING AND FASTENERS HAVE BEEN DESIGNED TO RESIST THE UNID UPLIFT LOAD PATH IN ACCORDANCE WITH METHOD 3 OF SECTION R6-02103.5.

INSTALL HOLD-DOWNS FOR BRACED WALL END CONDITIONS PER SECTION R6-02104 AND FIGURE R6-02104.1 OF THE 2006 NCRC.



FIRST FLOOR BRACING (FT)		
CONTINUOUS SHEATHING METHOD - OPT.		
	REQUIRED	PROVIDED
FRONT SIDE	112	121
LEFT SIDE	129	231
REAR SIDE	112	208
RIGHT SIDE	129	311

FIRST FLOOR BRACING (FT)		
CONTINUOUS SHEATHING METHOD - OPT.		
	REQUIRED	PROVIDED
FRONT SIDE	146	196
LEFT SIDE	129	211
REAR SIDE	146	214
RIGHT SIDE	129	311



FIRST FLOOR BRACING (FT)		
CONTINUOUS SHEATHING METHOD		
	REQUIRED	PROVIDED
FRONT SIDE	112	121
LEFT SIDE	129	211
REAR SIDE	112	208
RIGHT SIDE	129	311

Professional Engineer Seal for Phil Brick, Jr., No. 046048, State of North Carolina. The seal is circular and includes the text 'SEAL', 'PHIL BRICK, JR.', 'ENGINEER', '046048', 'NORTH CAROLINA', and 'PROFESSIONAL'. The date 6/25/2020 is stamped over the seal.

STRUCTURAL MEMBERS ONLY

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3070 HAMMOND BUSINESS PLACE, SUITE 171
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NORTH CAROLINA
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Engineering, Laboratory & Testing, P.C.
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CERTIFICATE OF LICENSURE

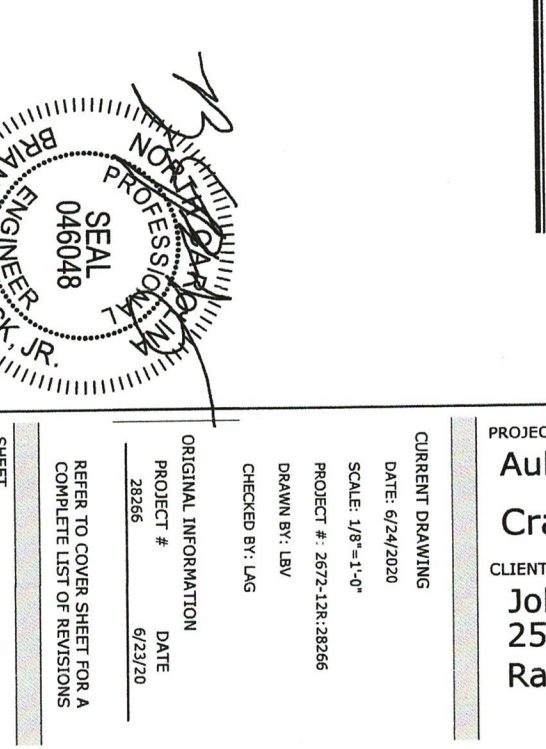
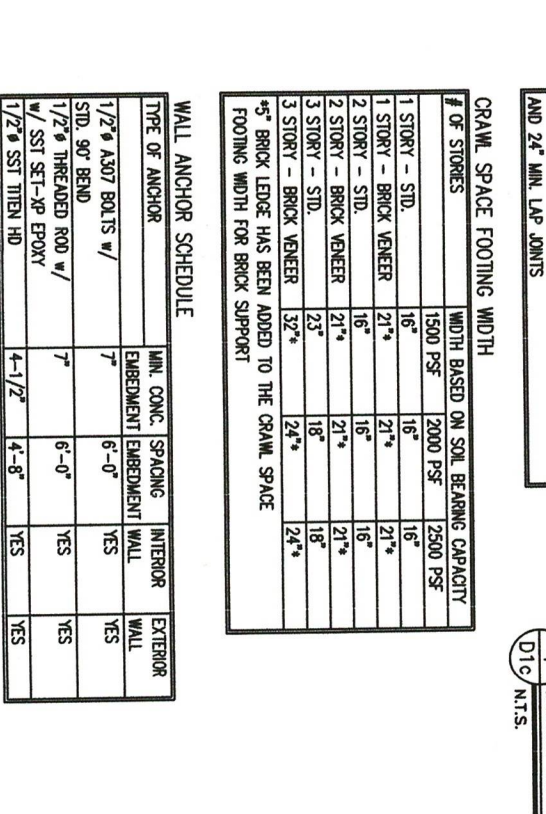
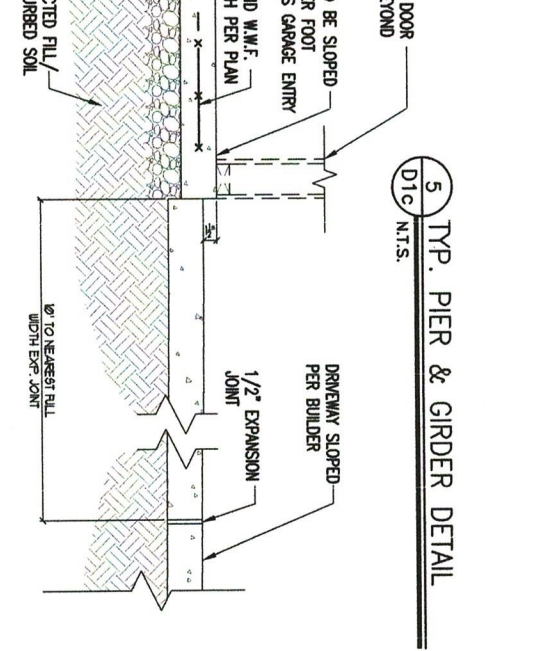
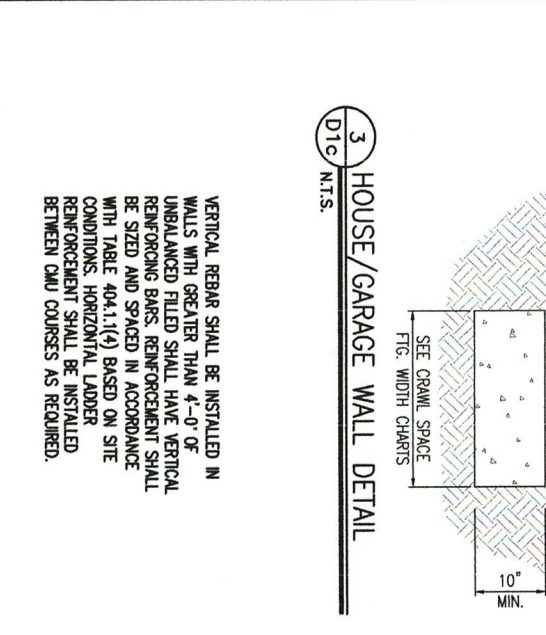
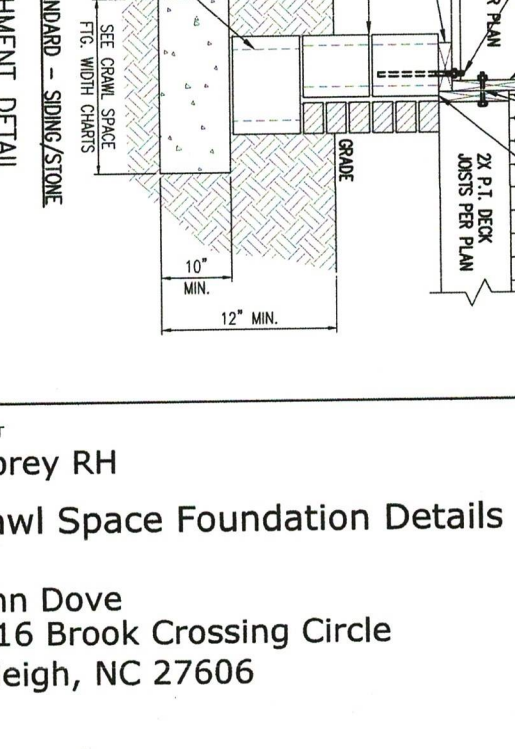
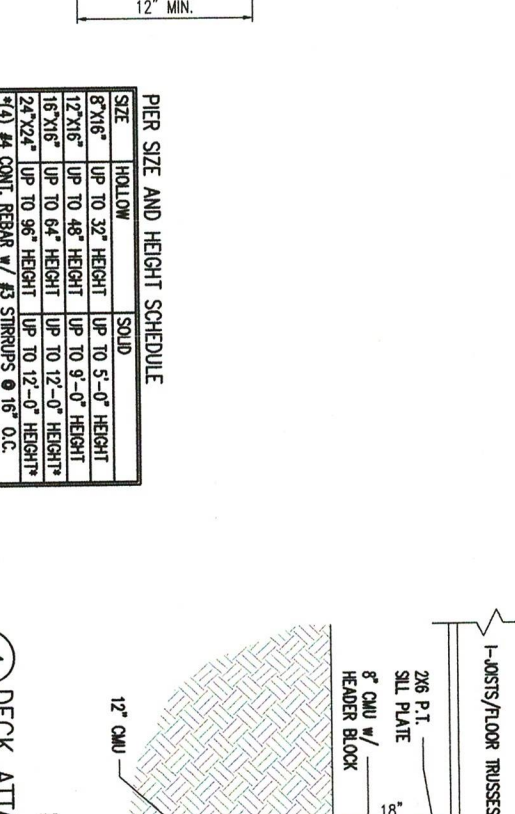
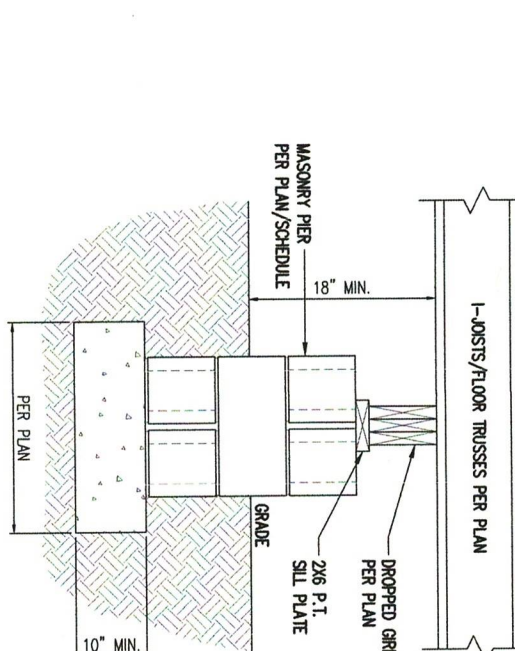
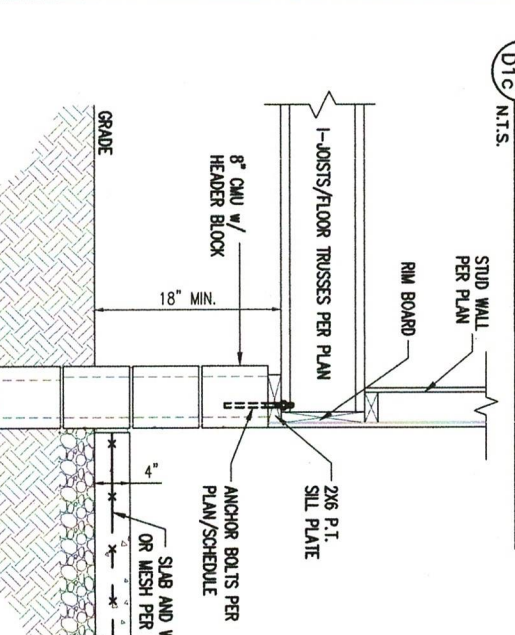
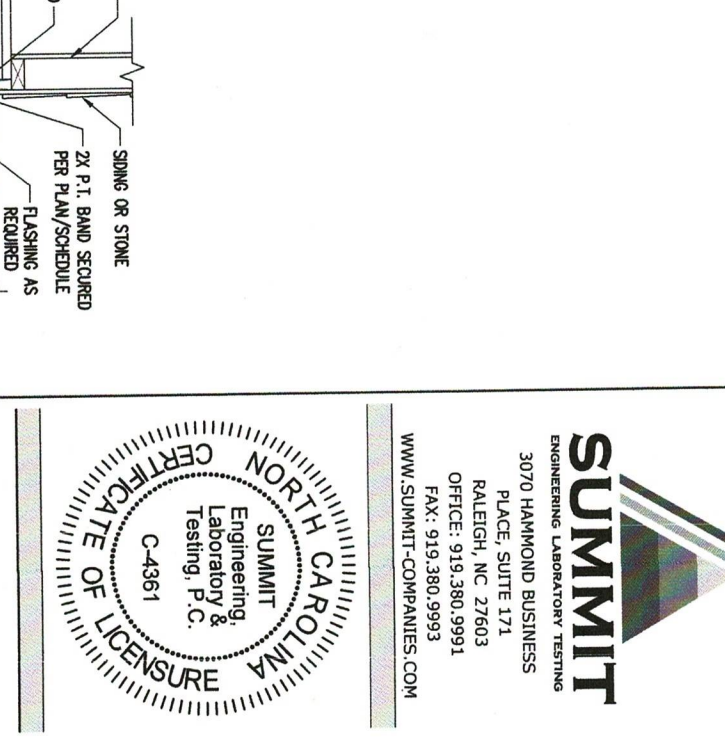
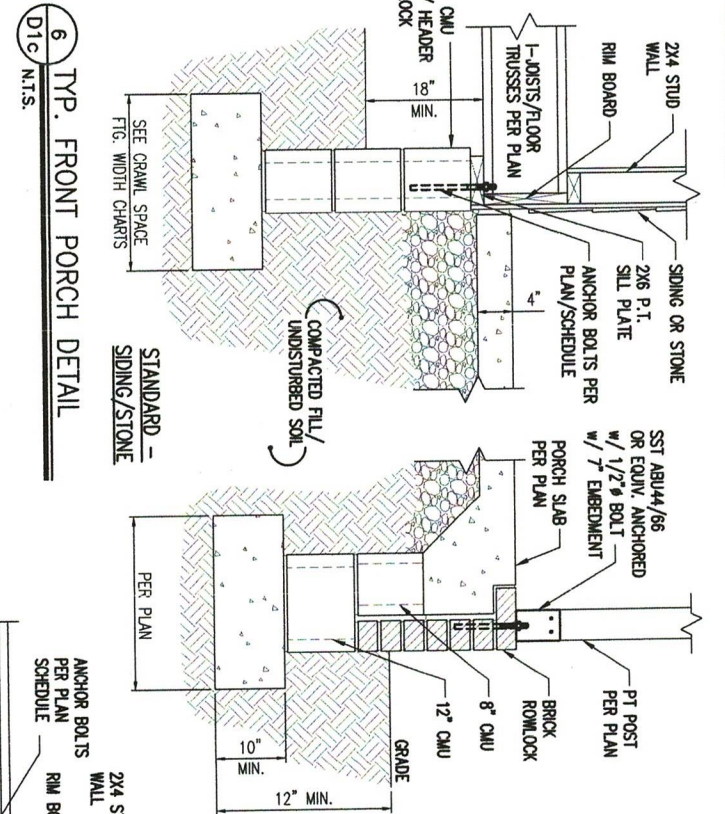
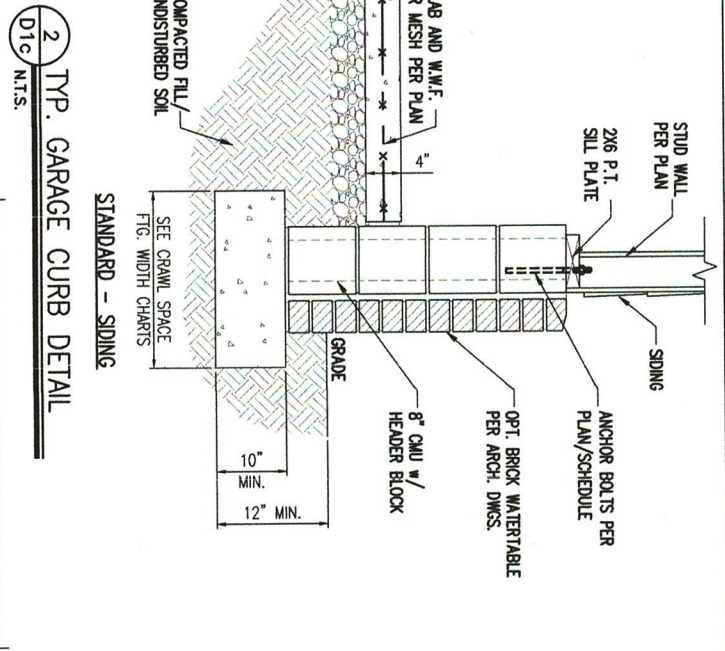
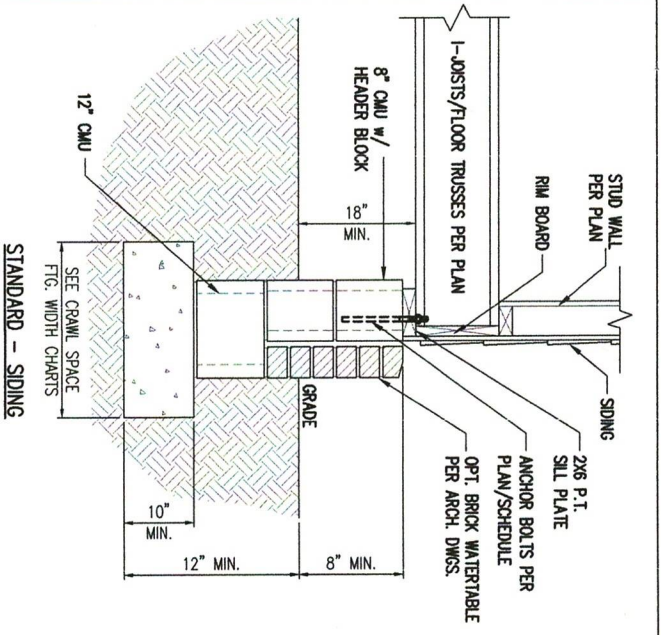
PROJECT: Aubrey RH
First Floor Bracing
CLIENT: John Dove
2516 Brook Crossing Circle
Raleigh, NC 27606

CURRENT DRAWING
DATE: 6/24/2020
SCALE: 1/8"=1'-0"
PROJECT #: 2672-12R-28266
DRAWN BY: LBV
CHECKED BY: LAG

ORIGINAL INFORMATION
PROJECT # 28266
DATE 6/23/20

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S7.0



PIER SIZE AND HEIGHT SCHEDULE

SIZE	HOLLOW	SOLID
8"x16"	UP TO 32" HEIGHT	UP TO 5'-0" HEIGHT
12"x16"	UP TO 48" HEIGHT	UP TO 9'-0" HEIGHT
16"x16"	UP TO 64" HEIGHT	UP TO 12'-0" HEIGHT
24"x24"	UP TO 96" HEIGHT	UP TO 12'-0" HEIGHT

* (4) #4 CONT. REBAR w/ #3 STRIPPUS @ 16" O.C. AND 24" MIN. LAP JOINTS

CRAWL SPACE FOOTING WIDTH

WIDTH BASED ON SOIL BEARING CAPACITY

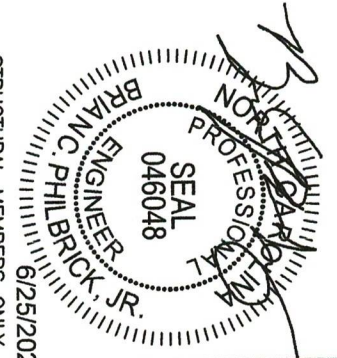
# OF STORES	1500 PSF	2000 PSF	2500 PSF
1 STORY - STD.	16"	16"	16"
1 STORY - BRICK VENEER	21"	21"	21"
2 STORY - STD.	16"	16"	16"
2 STORY - BRICK VENEER	21"	21"	21"
3 STORY - STD.	23"	18"	18"
3 STORY - BRICK VENEER	32"	24"	24"

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

WALL ANCHOR SCHEDULE

TYPE OF ANCHOR	MIN. CONC. EMBEDMENT	SPACING	INTERIOR WALL	EXTERIOR WALL
1/2" # A307 BOLTS w/ STD. 90° BEND	7"	6'-0"	YES	YES
1/2" # THREADED ROD w/ SST SET-AP EPOXY	7"	6'-0"	YES	YES
1/2" # SST TITEN HD	4-1/2"	4'-8"	YES	YES

NOTE:
 1) INSTALL ALL ANCHORS 12" MAX. FROM ALL BOTTOM PLATE ENDS AND JOINTS.
 2) EQUIVALENT ANCHORS MAY BE USED. SIZE & SPACING PER MANUF. SPECS.



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 C-4361

PROJECT
Aubrey RH
Crawl Space Foundation Details
 CLIENT
John Dove
2516 Brook Crossing Circle
Raleigh, NC 27606

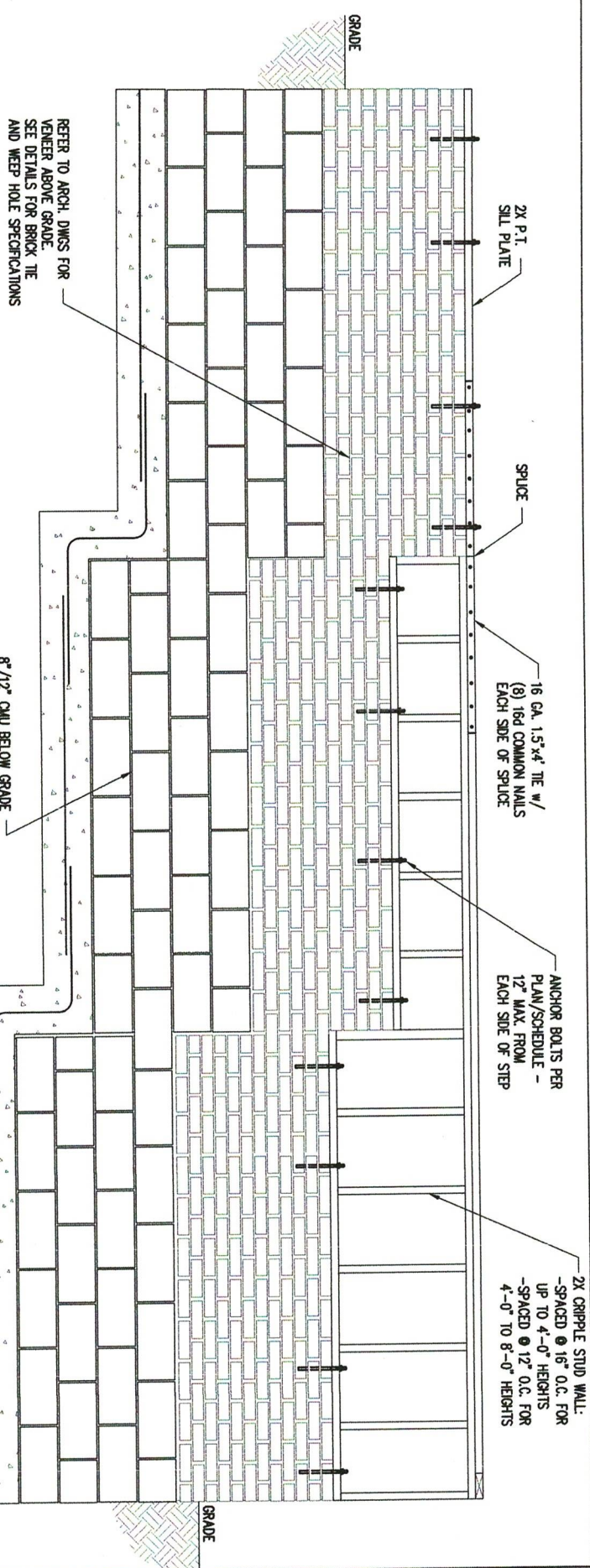
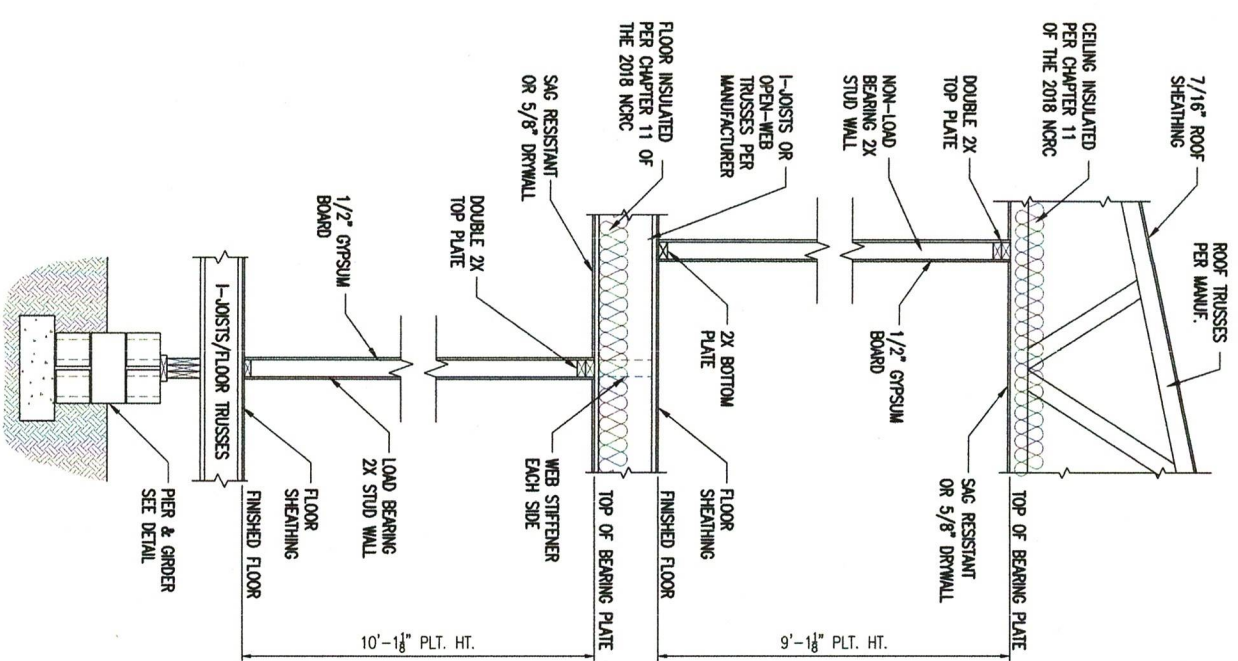
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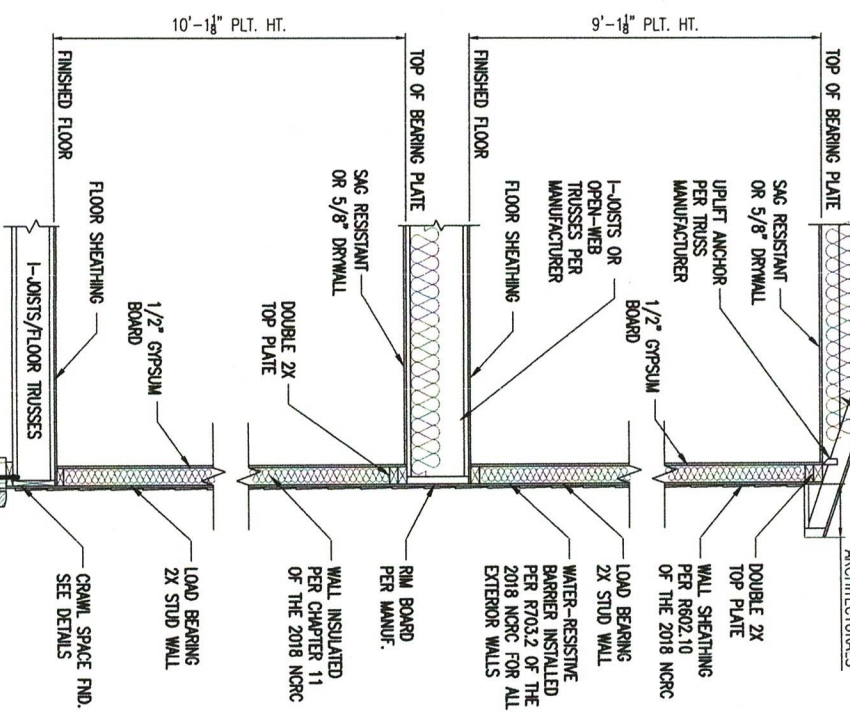
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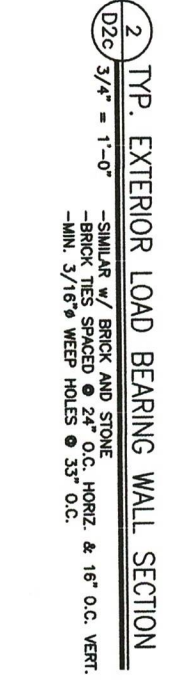
1 TYP. INTERIOR LOAD BEARING WALL SECTION
 D2c 3/4" = 1'-0"



3 TYP. STEPPED FOUNDATION WALL DETAIL
 D2c N.T.S.



2 TYP. EXTERIOR LOAD BEARING WALL SECTION
 D2c 3/4" = 1'-0"



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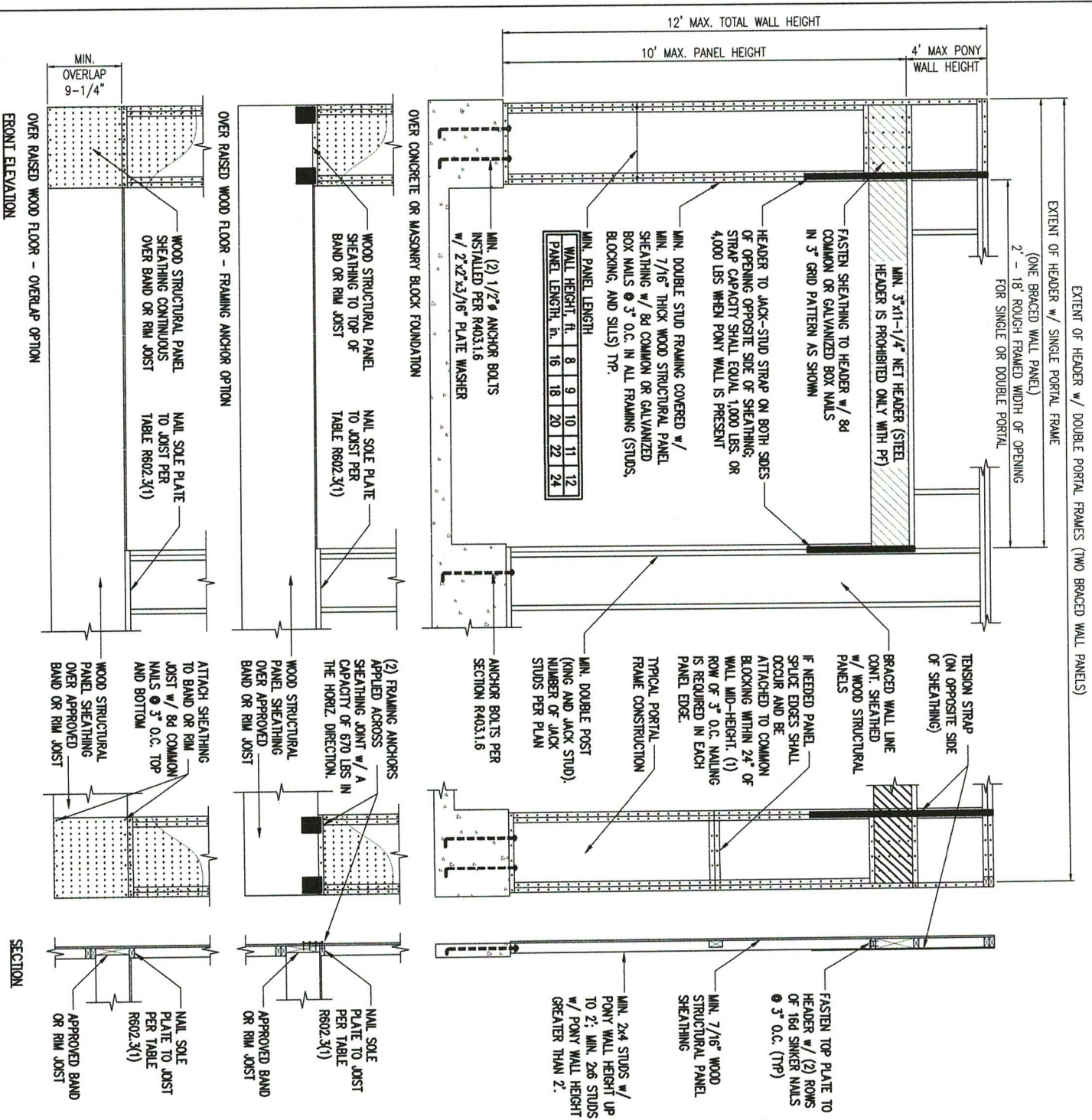
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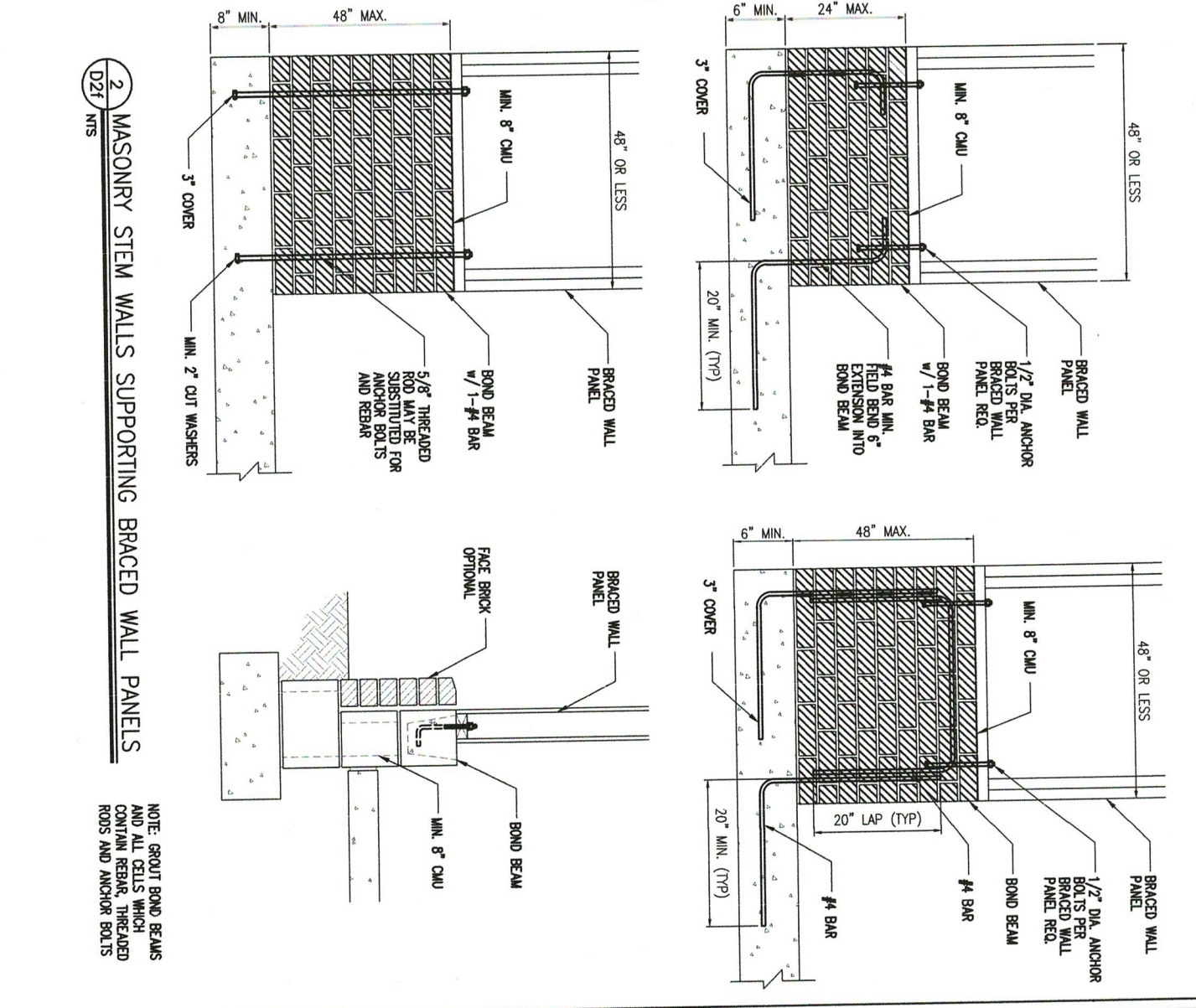
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NORTH CAROLINA PROFESSIONAL ENGINEER SEAL
 046048
 BRIAN C. PHILBRICK, JR.
 6/25/2020
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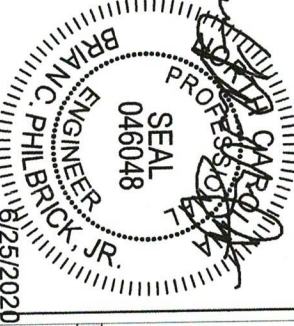
SHEET
D2c



1 METHOD PF: PORTAL FRAME DETAIL
D1f 3/8" = 1'-0"

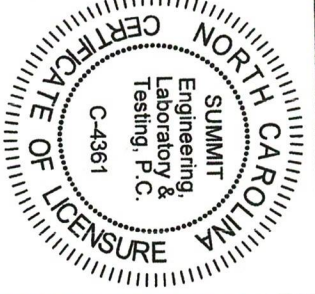


2 MASONRY STEM WALLS SUPPORTING BRACED WALL PANELS
D2f NTS



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