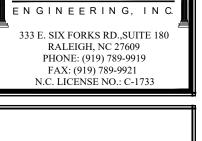
STANDARD WITH OPTIONS AUGUST 14th, 2023

BUILDING AREAS: HEATED AREAS: FIRST FLOOR ± 1,670.05 SQ FT SECOND FLOOR ± 1,314.50 SQ FT **TOTAL HEATED** ± 2,984.55 SQ FT OPT.SECOND FLOOR ± 1,574.05 SQ FT OPT. TOTAL HEATED ± 3,244.10 SQ FT UNHEATED AREAS: PORCHES ± 267.63 SQ FT ± 405.83 SQ FT STORAGE (UNCONDITIONED) ± 305.91 SQ FT STORAGE (UNCONDITIONED) ± 259.55 SQ FT **TOTAL UNHEATED** 3 CAR GARAGE (OPTIONAL) ± 240.00 SQ FT OPT. TOTAL UNHEATED ± 1,478.92 SQ FT TOTAL AREA UNDER ROOF: ± 4,223.47 SQ FT OPT. TOTAL AREA UNDER ROOF: ± 4,723.02 SQ FT

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DOWNTON SHEET COVER

뿔

ANDERSON CREEK

 TRELLIS FOR 2 CAR GARAGE
 STEM WALL
 STEM VENEER AT FRONT FOUNDATION 4. SHUTTERS
5. CEMENT SIDING
6. SCREENED PORCH WITH WOOD SCREEN DOOR.
7. WOOD SHELVING IN PANTRY & MASTER CLOSET.

7. WOOD SHELVING IN FANTRY & MAST
8. Crown molding in trays
9. GOURMENT CABINET UPGRADE
10. SHEETROCK ISLAND
11. SHOWER BASE WITH TILE WALLS
12. TILE FLOORING IN BATHS I/O LVP

12. TILE FLOOKING IN BATHS I/O LYF
13. TILE KITCHEN BACKSPLASH
14. LUXURY LIGHTING PACKAGE
15. UNDERCABINET LIGHTS
16. LUXURY APPLIANCE PACKAGE

. Bonus room

ADDED OPTIONS

4/0 Bi swing door to study/office
 Optional 2nd vanity upstairs bath
 OPTIONAL EXTENDED CABINETS IN

OPTIONS

House Plan	Development	Lot #	Address	Garage Side	Total HSF	Total Under Roof
		1146	283 Education Dr	Left		

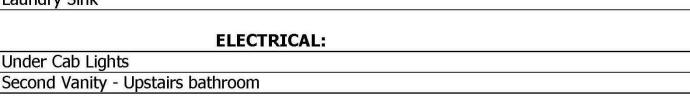
EXTERIOR:

Elevation STD or A
Elevation B
Elevation C
Cement Siding
Vinyl Siding
Lap siding only
Board and Batten
Trellis
Shutters
3 Car Garage
Side Load
Garage Window Panels
Garage door from double car to single car garage
Garage Door to Back Yard
Covered Back Porch screened
Extended Porch
Side Lite
Stone Skirt
Stem
Crawl

INTERIOR:

	Extra windows in living room			
	Optional Kitchen Layout			
	1st Floor Guest Suite			
	1st Floor Flex Room			
X	Standard Electric Fireplace			
	Gas Fireplace			
	Shiplap Electric Fireplace			
	Shiplap Gas Fireplace			
	Bookshelves			
X	Under Cab Lighting			
X	Bonus Room			
X	2nd Vanity in Secondary bathroom			
	Linen Room Door (Argyle Owner Suite Only)			
	Open Railing			
	Attic Stairs			
	Laundry Sink			

Under Cab Lights





ORIGINAL SKETCH FRONT ELEVATION

SHEET INDEX

COVER SHEET

PLUMBING FIXTURE MAIN FLOOR

PLUMBING FIXTURE UPPER FLOOR

MAIN FLOOR PLAN

UPPER FLOOR PLAN

DIMENSIONED MAIN FLOOR PLAN DIMENSIONED UPPER FLOOR PLAN

ROOF PLAN

ALL EXTERNAL ELEVATIONS

CONSTRUCTION BUILDING SECTIONS & DETAILS

WINDOW & DOOR SCHEDULES

ELECTRICAL MAIN FLOOR PLAN

ELECTRICAL UPPER FLOOR PLAN

PLUMBING FIXTURE MAIN FLOOR PLAN

P1

THE DOWNTON

j.s.Thompson

ENGINEERING, INC

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J.s.Thompson

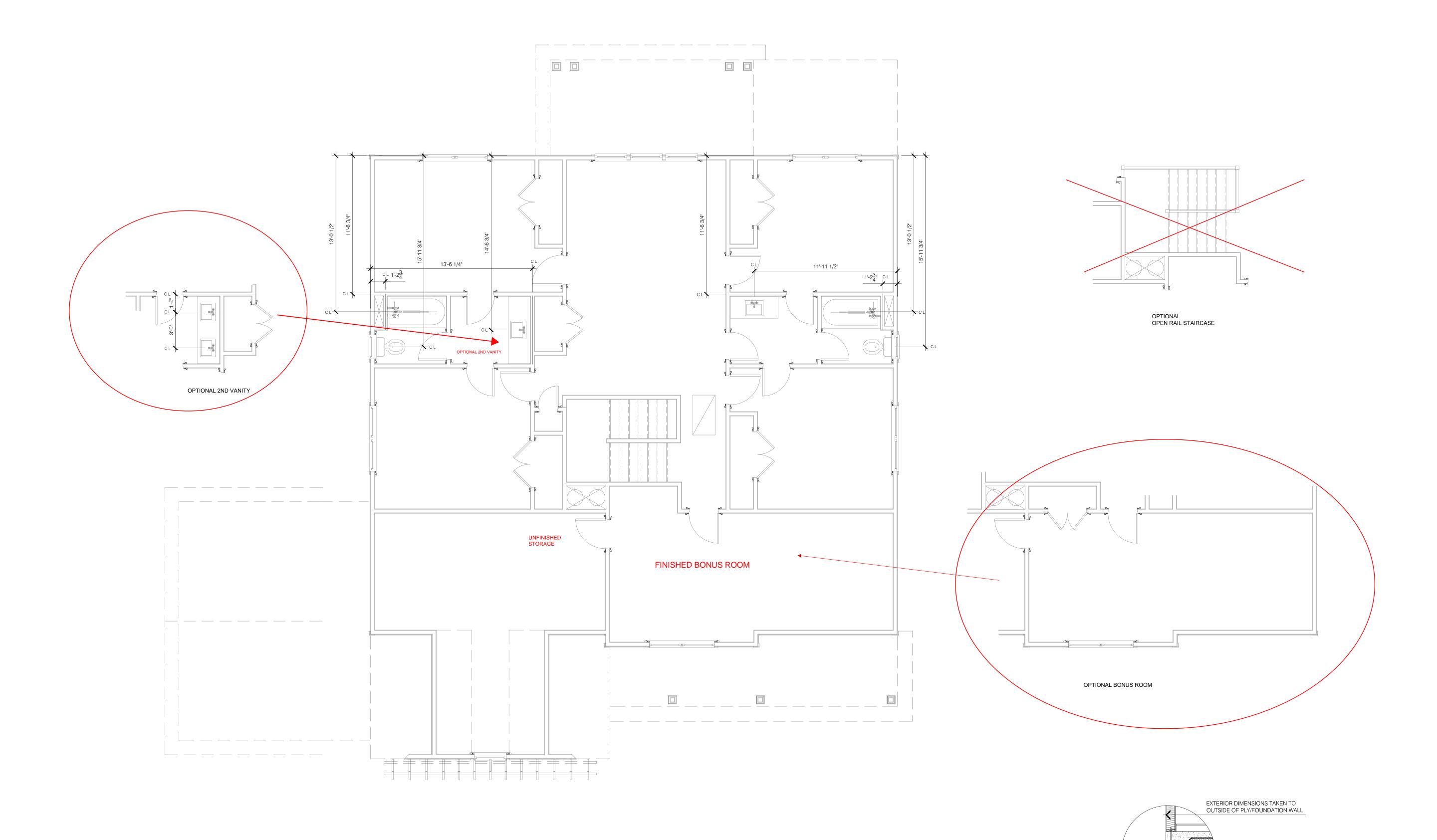
ENGINEERING, INC

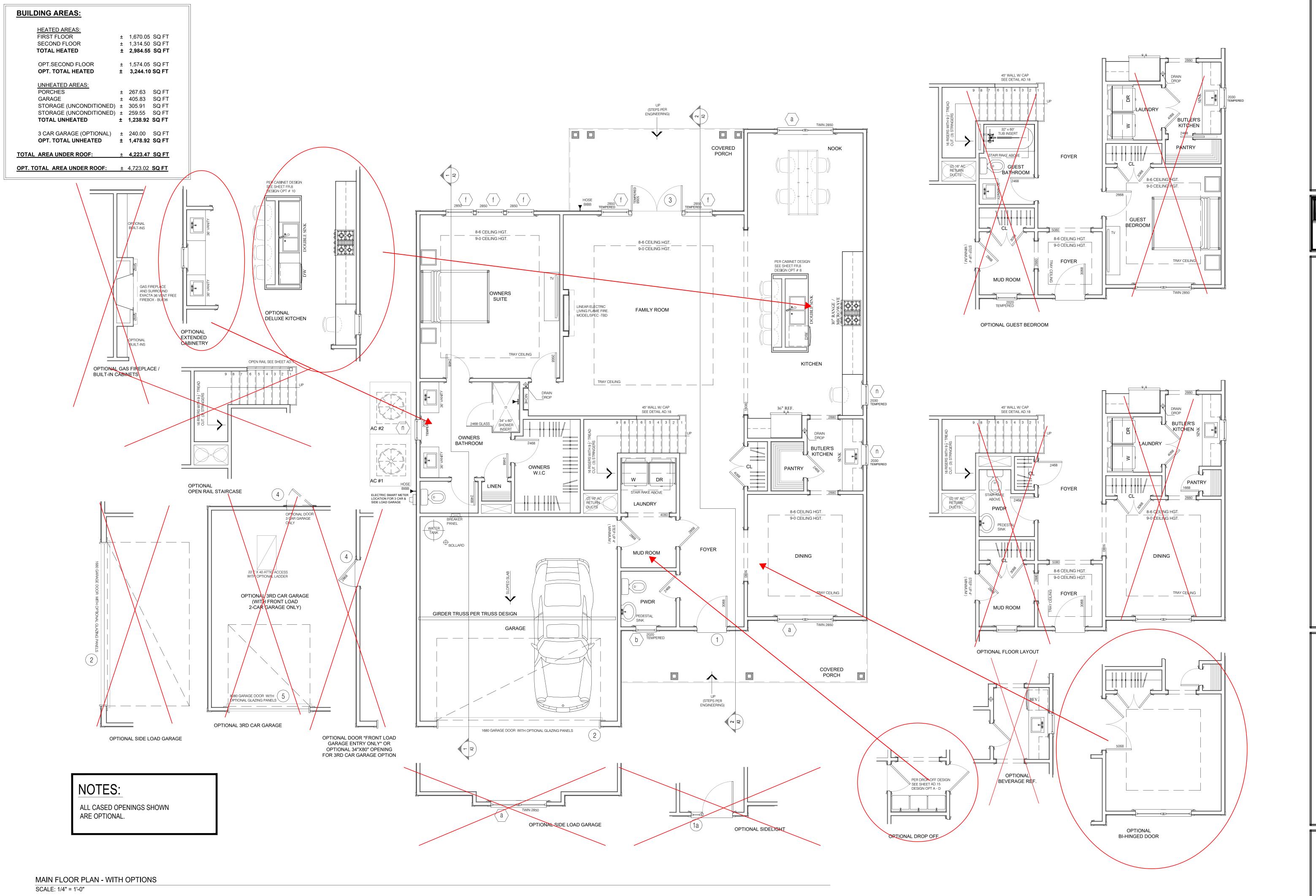
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PLUMBING FIXTURE UPPER FLOOR PLAN THE DOWNTON

PLUMBING FIXTURE LOCATIONS PLANS - WITH OPTIONS SCALE: 1/4" = 1'-0"

UPPER FLOOR





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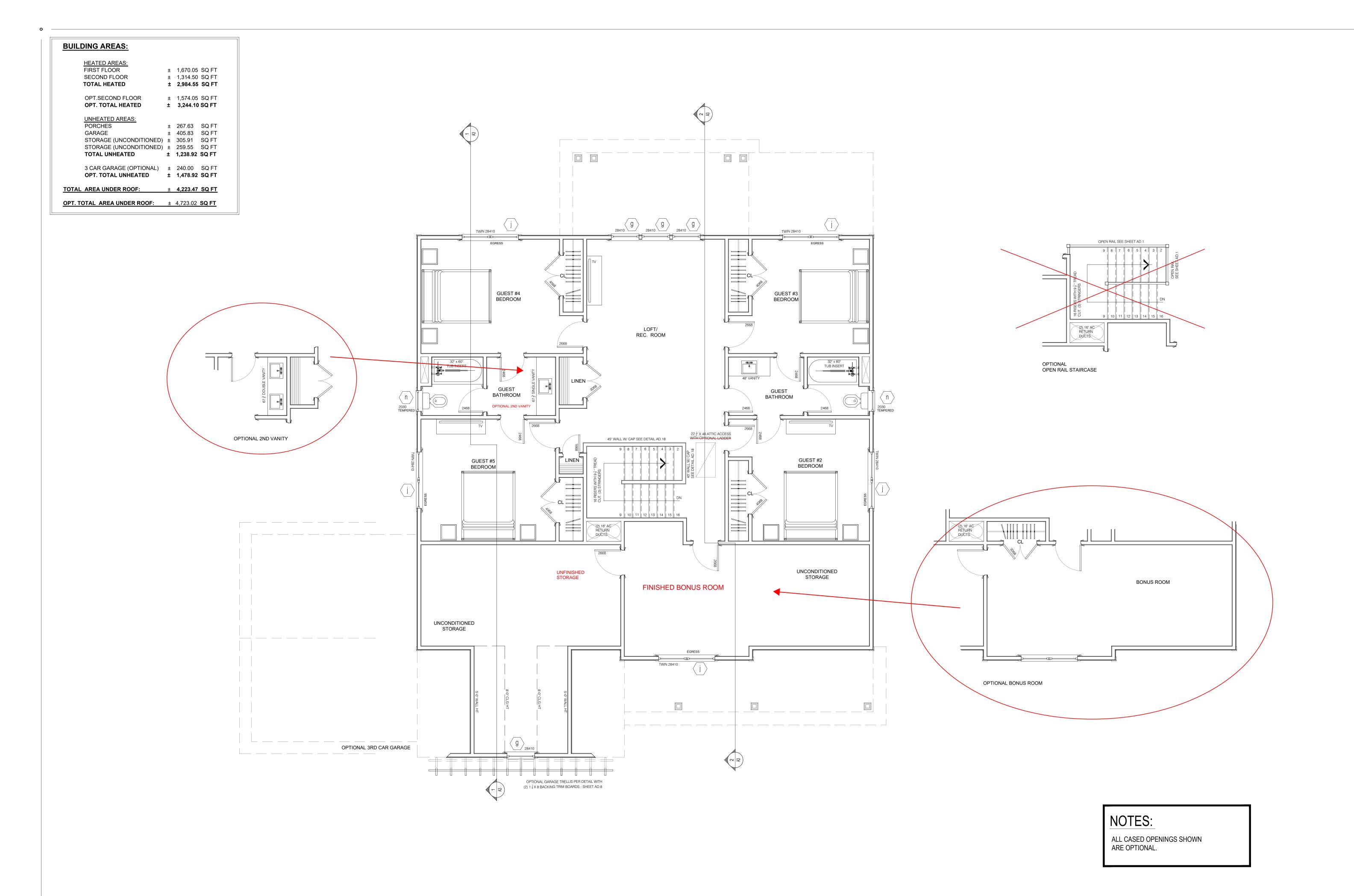
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FAX: (919) 789-9921

N.C. LICENSE NO.: C-1733

THE DOWNTON
MAIN
FLOOR PLAN

DATE: 2023-08-14
DRAWN BY: MD
ENGINEER: JST
CHECKED BY: NS
Q.C. BY: NS
SCALE: 1/4" = 1'-0"



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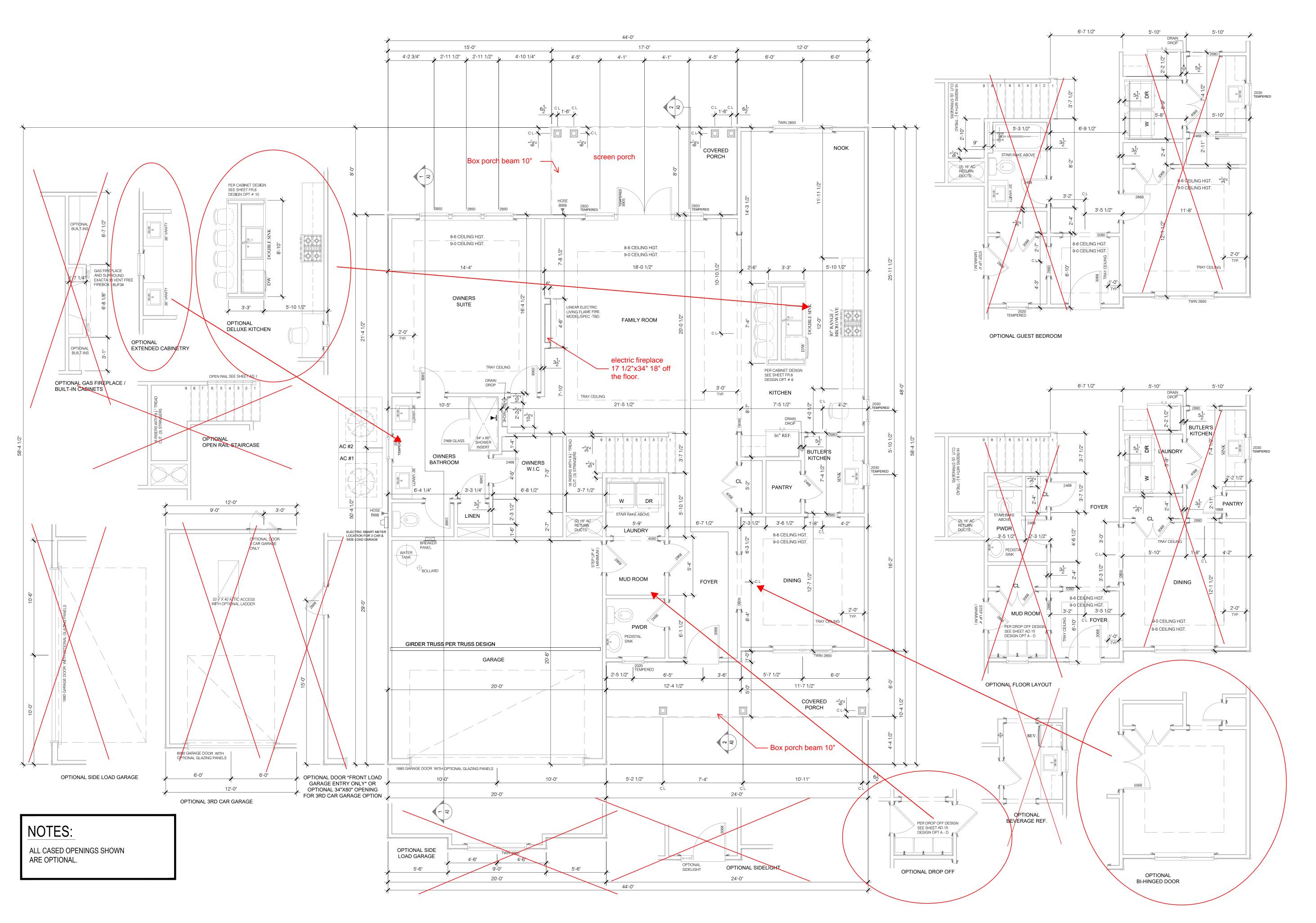
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ENGINEERING, INC

333 E. SIX FORKS RD.,SUITE 180
RALEIGH, NC 27609
PHONE: (919) 789-9919
FAX: (919) 789-9921
N.C. LICENSE NO.: C-1733

THE DOWNTON
UPPER
FLOOR PLAN

DATE: 2023-08-14
DRAWN BY: MD
ENGINEER: JST
CHECKED BY: NS
Q.C. BY: NS
SCALE: 1/4" = 1'-0"
SHEET NUMBER#:



J.S. THOMPSON RALEIGH, NC 27609 PHONE: (919) 789-9919

ENGINEERING, IN 333 E. SIX FORKS RD., SUITE 180 FAX: (919) 789-9921 N.C. LICÈNSE NO.: C-1733

DIMENSIONED MAIN FLOOR PLAN DOWNTON 里

J.S.THOMPSON

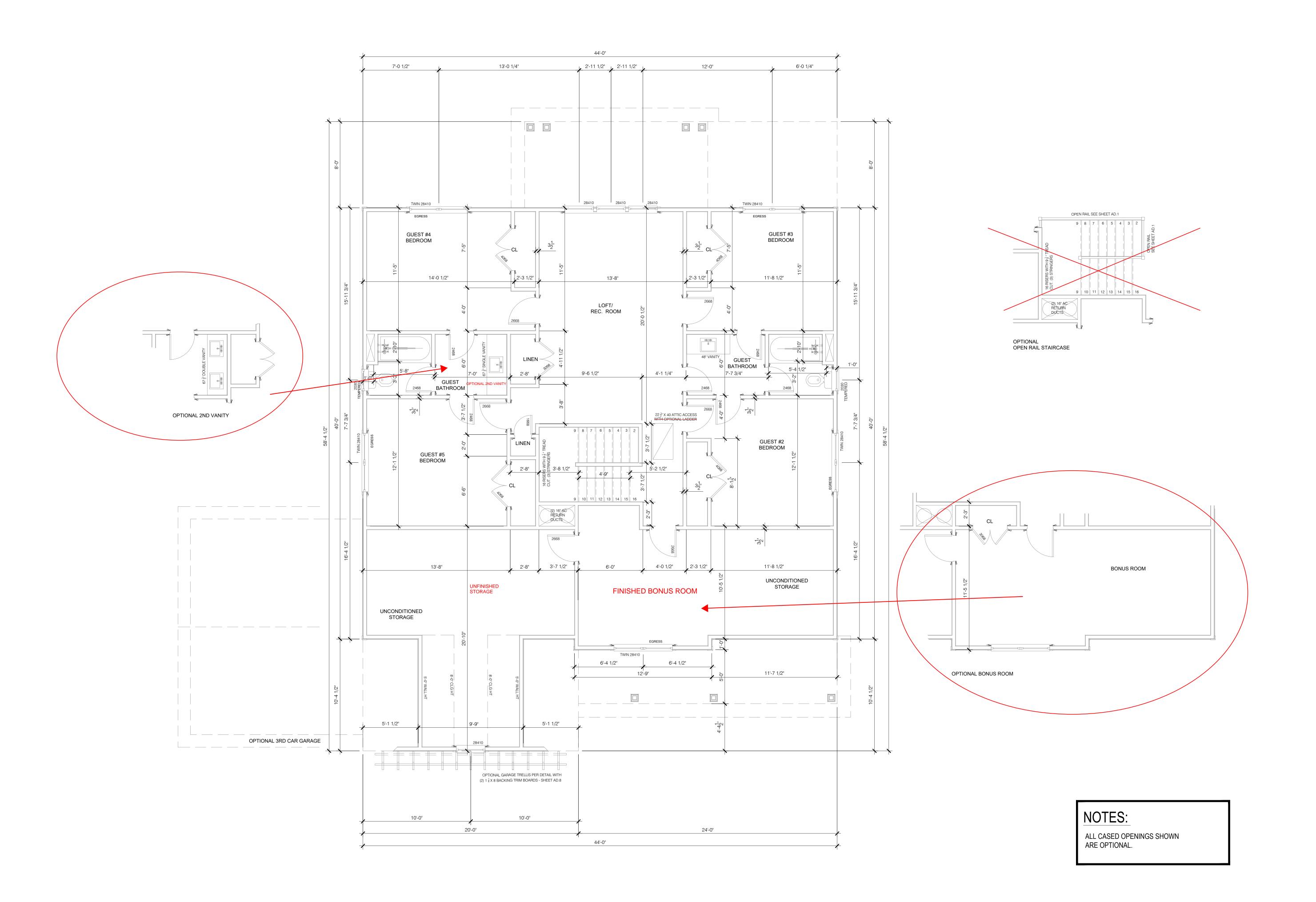
ENGINEERING, IN

333 E. SIX FORKS RD.,SUITE 180 RALEIGH, NC 27609 PHONE: (919) 789-9919 FAX: (919) 789-9921 N.C. LICENSE NO.: C-1733

NED R PLAN

THE DOWNTON
DIMENSIONED
UPPER FLOOR PLAN

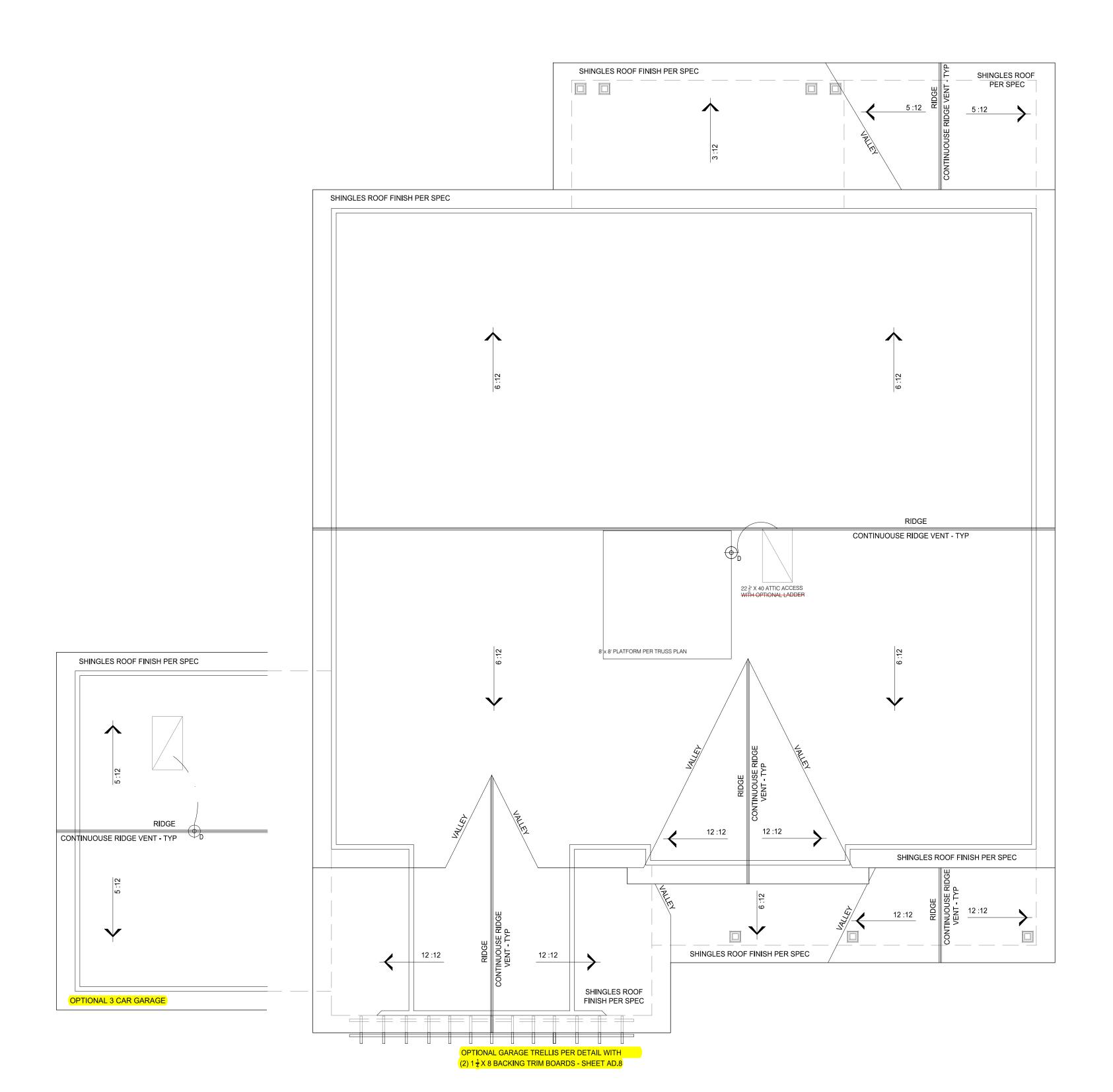
ENGINEER: JST
CHECKED BY: NS
Q.C. BY:
SCALE: 1/4" = 1'-0"
SHEET NUMBER#:

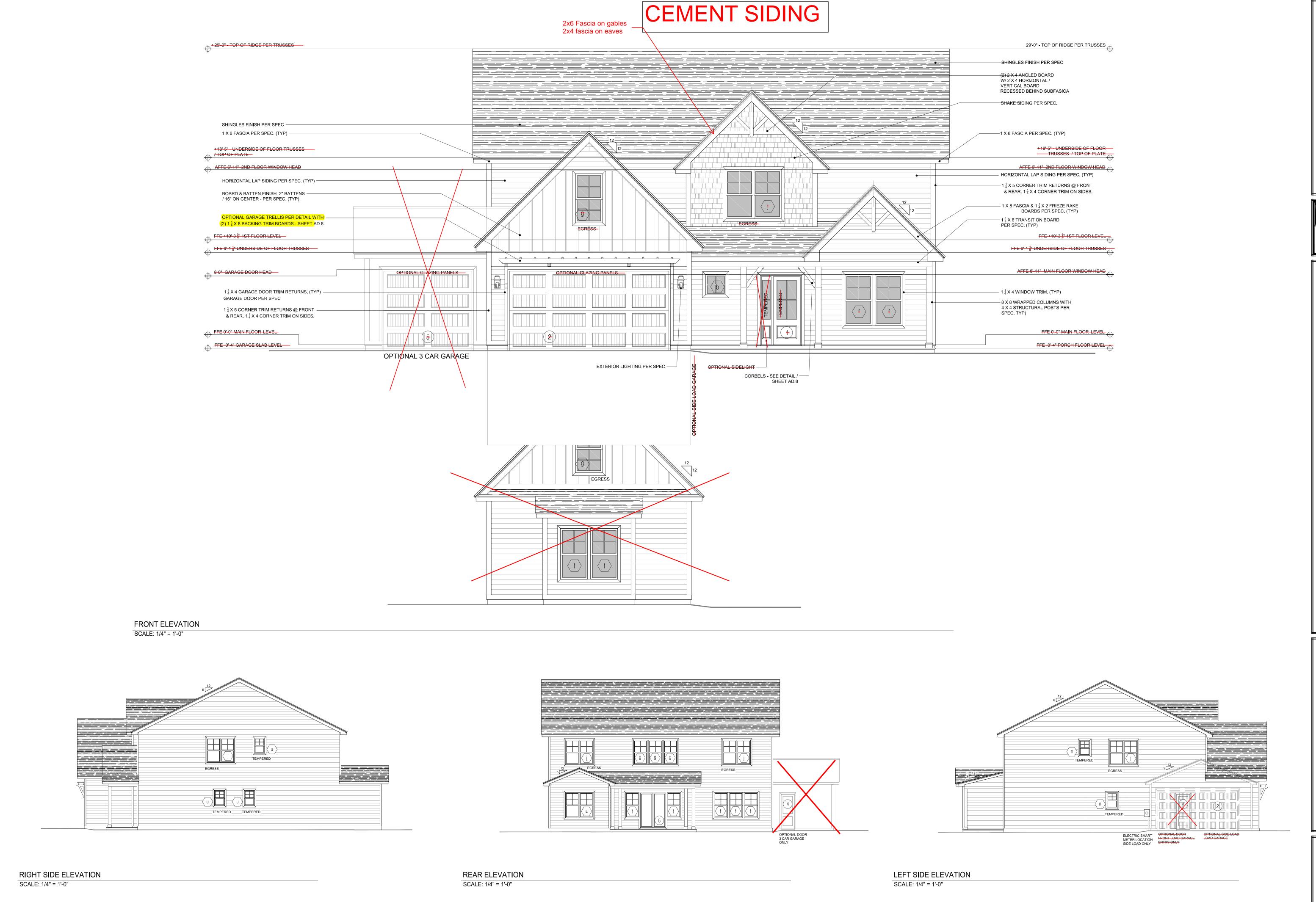






THE DOWNTON ROOF PLAN





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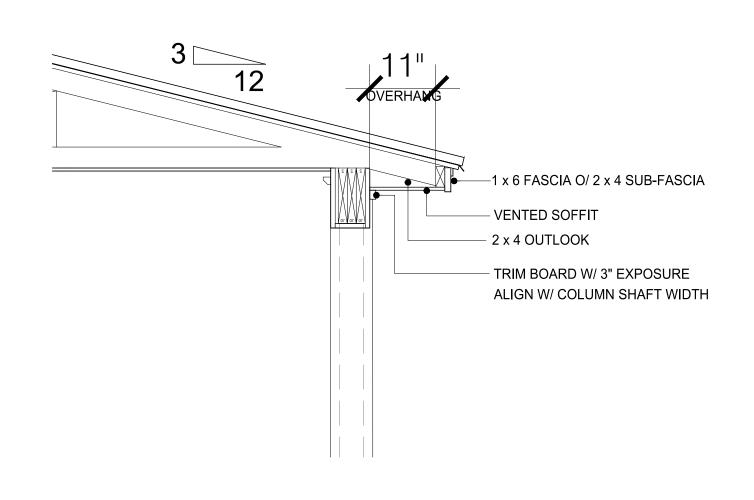
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N.C. LICENSE NO.: C-1733

THE DOWNTON
ALL EXTERNAL
ELEVATIONS

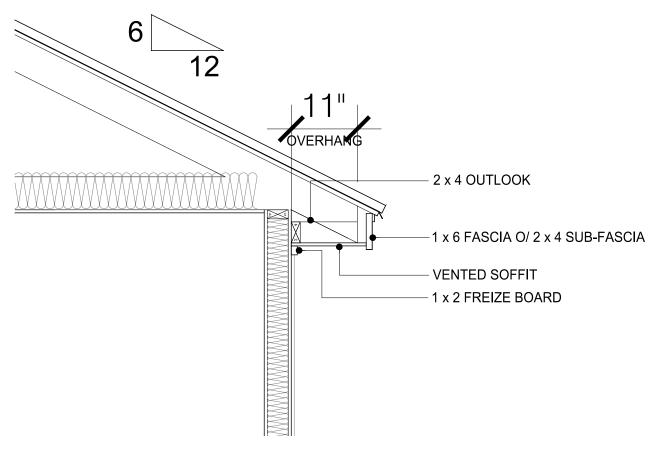
DATE: 2023-08-14
DRAWN BY: MD
ENGINEER: JST
CHECKED BY: NS
Q.C. BY: NS
SCALE: 1/4" = 1'-0"
SHEET NUMBER#:

DETAIL **C**SCALE: 3/4" = 1'-0"



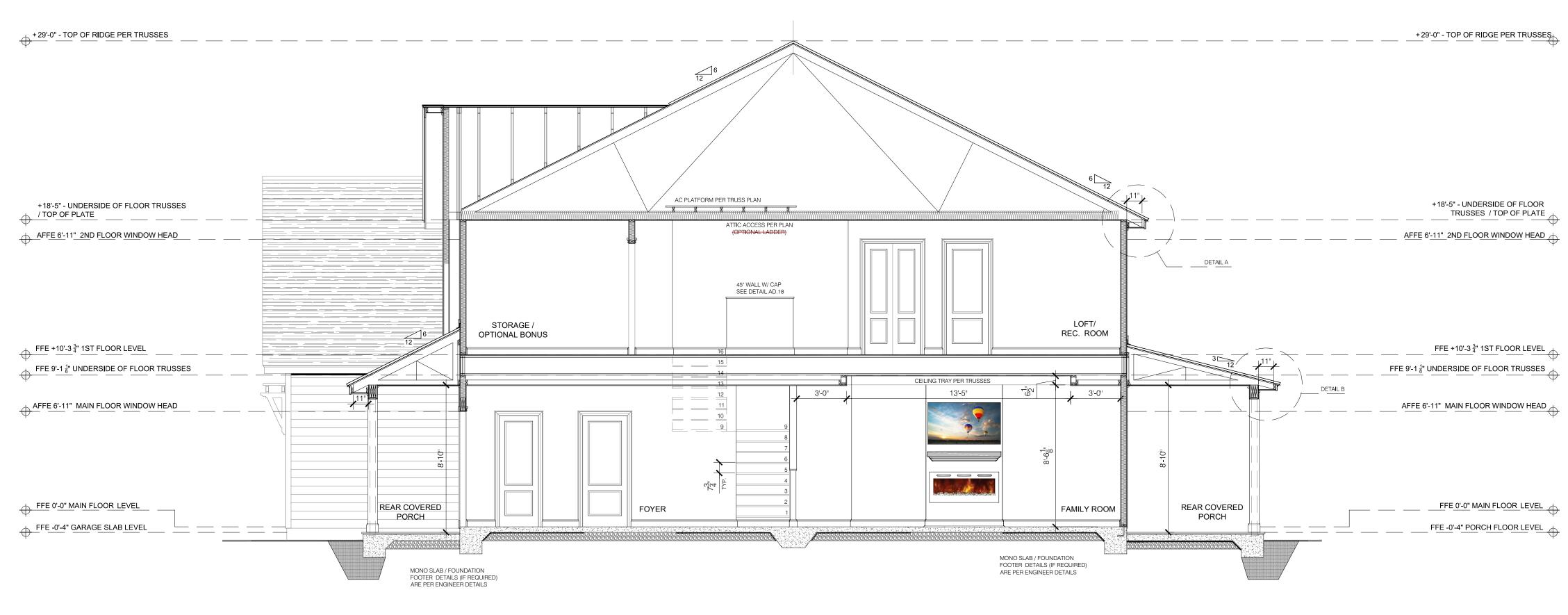
DETAIL B

SCALE: 3/4" = 1'-0"



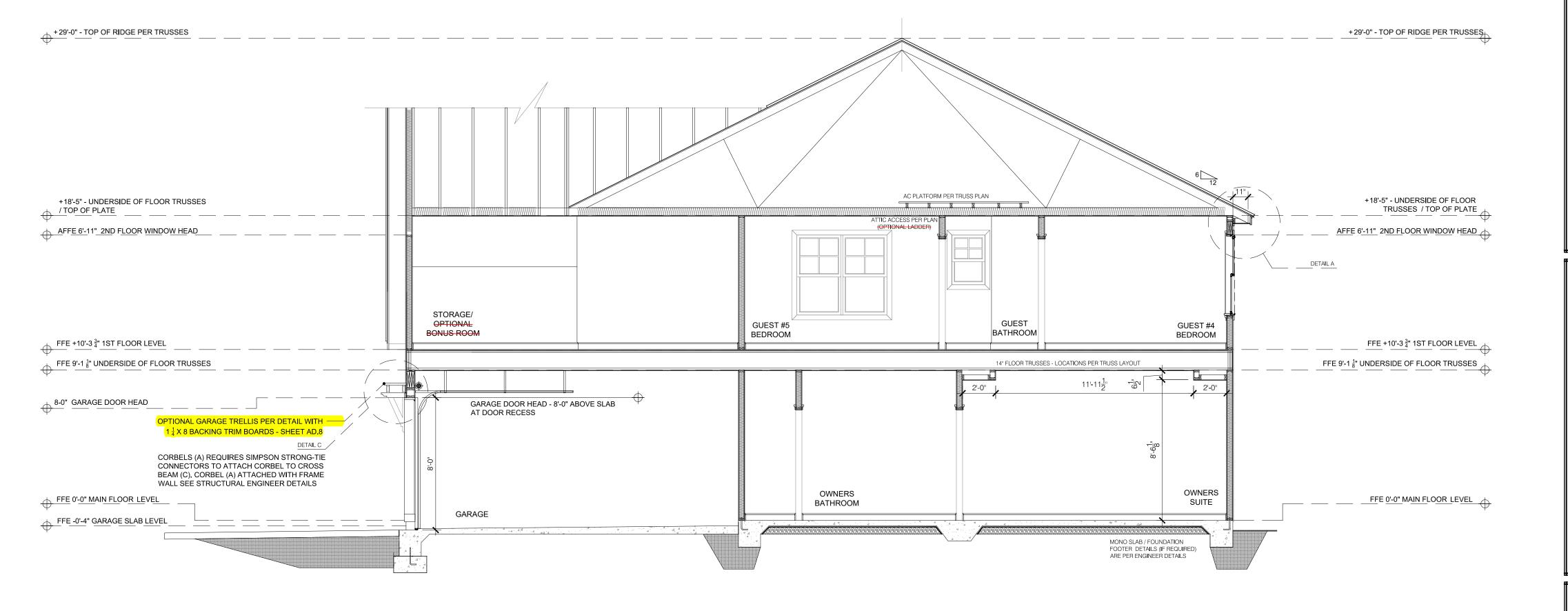
DETAIL A

SCALE: 3/4" = 1'-0"



BUILDING SECTION - 2

SCALE: 1/4" = 1'-0"



BUILDING SECTION SCALE: 1/4" = 1'-0"

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THE DOWNTON
CONSTRUCTION

DATE: 2023-08-14
DRAWN BY: MD
ENGINEER: JST
CHECKED BY: NS
Q.C. BY: NS
SCALE: 1/4"-1'0"
SHEET NUMBER#:

NOTES:

SCALE: 3/8" = 1'-0"

1. ALL WINDOWS SHALL BE IN DOUBLE GLAZED INSULATED LOW 'E' GLAZING

2. ALL HARDWARE TO BE PER CLIENT/ASCOT SELECTIONS

3. DETAIL SHOP DRAWINGS FOR ALL WINDOW TYPES SHALL BE APPROVED

4. ALL PROFILES TO BE APPROVED BY ASCOT

5. WINDOW DIMENSIONS AND GLAZING PATTERN ARE PER NOMINATED VINYL SIZE DOCUMENTATION COLORED VINYL SINGLE HUNG TILT & SLIDE & FIXED WINDOWS

6. WINDOWS NOTED AS EGRESS SHALL COMPLY WITH THE RELEVANT BUILDING CODE REFERENCE. ALL WINDOWS SILLS LOWER THAN 24" ABOVE FINISHED FLOOR ELEVATIONS SHALL BE PROVIDED WITH FALL PREVENTATIVE DEVICES OR RESTRICTED TO ONLY ALLOW A 4" DIAMETER SPHERE TO PASS. NO WINDOW SILL SHALL BE HIGHER THAN 72" ABOVE ADJACENT GRADE.

7. EGRESS WINDOWS SHALL HAVE A NET OPENING AREA OF NOT LESS THAN 5.0 SQFT (20 X 24) - (NORTH CAROLINA) FOR GRADE FLOOR EGRESS OR 5.7 SQFT TO UPPER EGRESS FLOORS. NO WINDOW SILL SHALL BE HIGHER THAN 44" ABOVE FINISHED FLOOR ELEVATION OR BELOW A MIN OF 24 ABOVE THE FINISHED FLOOR.

8. CONTRACTOR/ASCOT SUPERINTENDENT SHALL VERIFY ALL MASONRY & FRAME OPENINGS BUILT ON SITE PRIOR TO WINDOW INSTALLATION.

9. TEMPERED GLAZING SHALL BE PROVIDED AND INSTALLED WITH CRITICAL HAZARDOUS LOCATIONS PER LOCAL AND STATE CODES, AND AS NOTED ON PLANS AND ELEVATIONS HEREIN, UNLESS OTHERWISE AGREED WITH CODE OFFICIALS.

NOTES:

GLAZING IN WET AREAS WHEN A BATH TUB OR SHOWER IS INSTALLED SHALL BE TEMPERED GLASS WHEN THE BOTTOM EXPOSED EDGE OF THE GLAZING IS LESS THAN 60" MEASURED VERTICALLY ABOVE THE FINISHED FLOOR ELEVATION - PER CODE: R308.4.5.

WHERE THE BOTTOM EXPOSED EDGE OF THE GLAZING IS BELOW 24" MEASURED VERTICALLY ABOVE THE FINISHED FLOOR ELEVATION TEMPERED GLASS SHALL COMPLY WITH EITHER ~ PREVENTATIVE FALL DEVICES SHALL BE INSTALLED OR THE WINDOW OPENING SHALL BE RESTRICTED TO A 4" OPENING DIMENSION NOT ALLOWING A 4" SPHERE TO PASS, PER CODE: R312.2.1.

GLAZING WHERE THE BOTTOM EXPOSED EDGE OF THE GLAZING IS LESS THAN 36" ABOVE THE PLANE OF AN ADJACENT WALKING SURFACE OF STAIRWAYS, LANDING, BETWEEN FLIGHTS AND RAMPS SHALL BE CONSIDERED A HAZARDOUS LOCATION, PER CODE: R308.4.6

WHERE GLAZING IS WITHIN 24" OF EITHER SIDE OF A DOOR IN A CLOSED POSITION SHALL BE CONSIDERED A HAZARDOUS LOCATION, PER CODE: R308.4.2

GLAZING ADJACENT TO A LANDING AT THE BOTTOM OF A STAIRWAY WHERE GLAZING IS LESS THAN 36" ABOVE THE LANDING AND WITHIN 60" HORIZONTAL ARC LESS THAN 180 DEGREES FROM THE BOTTOM STAIR NOSING IS CONSIDERED A HAZARDOUS LOCATION, PER CODE: 308.4.7

	EX	FERNAL DOOR SCHEDULE	
MARK	SIZE (WxH)	LOCATION	
1	3'-0" X 6'-8"	FRONT ENTRANCE - TEMPERED GLASS	
1a	1'-0" X 6'-8"	OPTIONAL SIDELIGHT - TEMPERED GLASS	
2	16'-0" X 8'-0"	GARAGE DOOR WITH OPTIONAL GLAZING PANELS	
3	5'-0" X 6'-8"	DINING ROOM - TEMPERED GLASS	
4	*2'-8" X 6'-8"	*OPTIONAL GARAGE SERVICE ENTRY DOOR	
5	*8'-0" X 8'-0"	*OPTIONAL GARAGE DOOR WITH OPTIONAL GLAZING PANELS	

	INTERNAL DOOR SCHEDULE			
SIZE	QUANTITY	DOOR TYPE	NOTES	
1'-6" X 6'-8"	1 +*(1) OPTION	SINGLE	2ND FLOOR LINEN / * OPTIONAL PANTRY	
2'-4" X 6'-8"	12 +*(3) OPTION	SINGLE	GUEST BATHS/OWNER'S LINEN/OWNER'S W.I.C./ PWD./ PANTRY/ OPT. GUEST BATH/ OPT. PWD/ OPT. FOYER CLOSET	
2'-6" X 6'-8"	7 +*(1) OPTION	SINGLE	*OPT GUEST BED / BEDROOM #2/ #3 / #4 / #5 / OPT. BONUS ROOM / OWNER'S SUITE / STORAGE	
2'-8" X 6'-8"	1	SINGLE	MUD ROOM	
2'-8" X 6'-8"	1	SINGLE	GARAGE FIRE DOOR - 20 MINUTE MIN	
3'-0" X 6'-8"	1 +*(5) OPTION	BI-SWING PAIR	LOFT LINEN/ OPT. BONUS ROOM CLOSET/ OPT. MUD ROOM/ OPT. DINING/ OPT. BED ROOM	
4'-0" X 6'-8"	5 +*(2) OPTION	BI-SWING PAIR	OPT. GUEST BEDROOM CLOSETS / FOYER CLOSET	
5'-0" X 6'-8"	*(2) OPTION	BI-SWING PAIR	DINING ROOM / OPTIONAL DINING ROOM	
* 2'-4" X 6'-8"	*(1) OPTION	SINGLE POCKET	OPTIONAL PANTRY	

			WINDOW SC	HEDULE		
MARK	RO SIZE (WxH)	WINDOW TYPE	LOCATION	QUANTITY	NOTES	
а	TWIN 2'-8" X 5'-0"	SINGLE HUNG	BREAKFAST NOOK, DINING	2 +*(1) OPTION	*WITH OPTIONAL SIDE LOAD GARAGE	
b	2'-0" X 2'-0"	PICTURE	POWDER ROOM	1	TEMPERED GLASS	
С	NOT USED					
d	NOT USED					
е	NOT USED			*2		
f	2'-8" X 5'-0"	SINGLE HUNG	OWNER'S SUITE / FAMILY ROOM	5	(2) TEMPERED GLASS	
g	2'-8" X 4'-10"	SINGLE HUNG	LOFT / REC. ROOM / UNCONDITIONED STORAGE	4		
h	NOT USED					
j	TWIN 2'-8" X 4'-10"	SINGLE HUNG	GUEST BED #2, 3, 4, 5 / OPTIONAL BONUS	5	EGRESS TO BEDROOMS #2, 3, 4, & 5	
k	NOT USED					
m	NOT USED					
n	2'-0" X 3'-0"	SINGLE HUNG	OWNER'S & GUEST BATH/ KITCHEN/ BUTLER'S KITCHEN	5	TEMPERED GLASS	
r	NOT USED					

SCHEDULES
SCALE: NTS

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J.s.Thompso:

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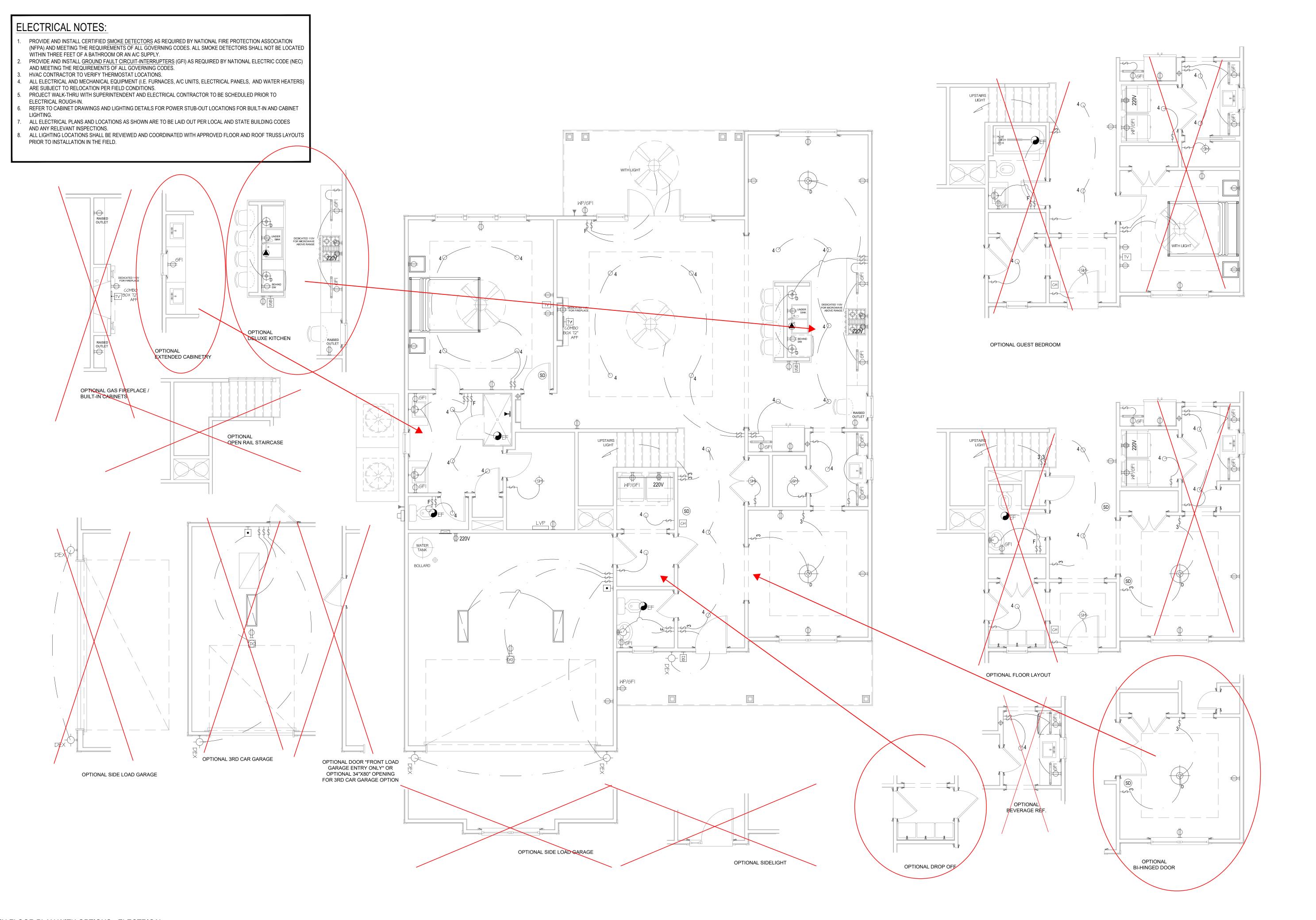
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THE DOWNTON WINDOW & DOOR SCHEDULES

ENGINEER: JST CHECKED BY: NS Q.C. BY: NS SCALE: 1/4"-1'0" SHEET NUMBER#:



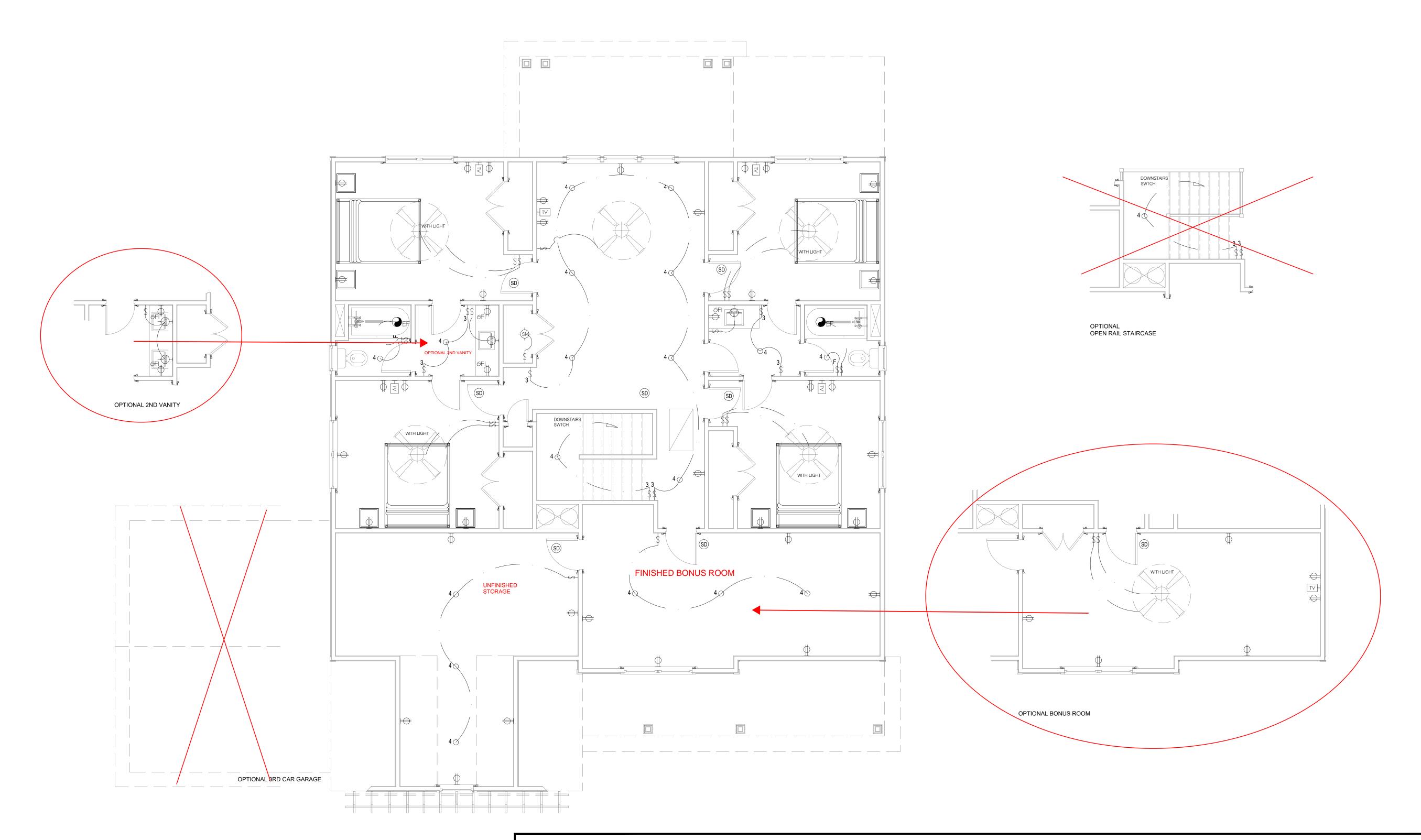
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ELECTRICAL -MAIN FLOOR PLAN THE DOWNTON





DOWNTON 里



ELECTRICAL NOTES:

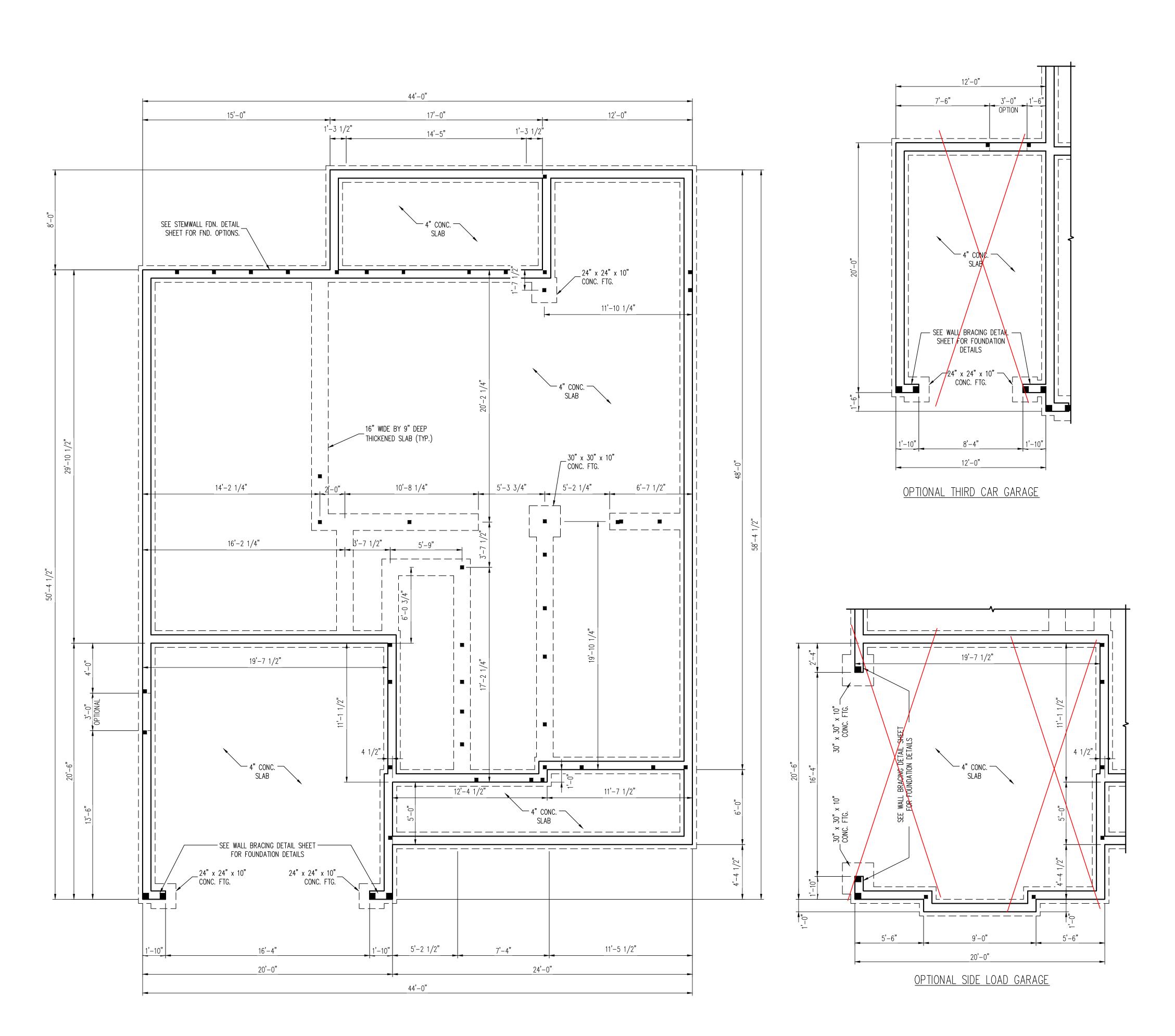
- PROVIDE AND INSTALL CERTIFIED <u>SMOKE DETECTORS</u> AS REQUIRED BY NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) AND MEETING THE REQUIREMENTS OF ALL GOVERNING CODES. ALL SMOKE DETECTORS SHALL NOT BE LOCATED WITHIN THREE FEET OF A BATHROOM OR AN A/C SUPPLY.
- PROVIDE AND INSTALL GROUND FAULT CIRCUIT-INTERRUPTERS (GFI) AS REQUIRED BY NATIONAL ELECTRIC CODE (NEC) AND MEETING THE REQUIREMENTS OF ALL GOVERNING CODES. HVAC CONTRACTOR TO VERIFY THERMOSTAT LOCATIONS.
- ALL ELECTRICAL AND MECHANICAL EQUIPMENT (I.E. FURNACES, A/C UNITS, ELECTRICAL PANELS, AND WATER HEATERS) ARE SUBJECT TO RELOCATION PER FIELD CONDITIONS. PROJECT WALK-THRU WITH SUPERINTENDENT AND ELECTRICAL CONTRACTOR TO BE SCHEDULED PRIOR TO
- ELECTRICAL ROUGH-IN. REFER TO CABINET DRAWINGS AND LIGHTING DETAILS FOR POWER STUB-OUT LOCATIONS FOR BUILT-IN AND CABINET
- LIGHTING. ALL ELECTRICAL PLANS AND LOCATIONS AS SHOWN ARE TO BE LAID OUT PER LOCAL AND STATE BUILDING CODES
- AND ANY RELEVANT INSPECTIONS. ALL LIGHTING LOCATIONS SHALL BE REVIEWED AND COORDINATED WITH APPROVED FLOOR AND ROOF TRUSS LAYOUTS PRIOR TO INSTALLATION IN THE FIELD.

STANDARD ELECTRICAL	_ & LIGHTING KEY				
WIRING CIRCUIT	CHIMES	HUSB ELECTRICAL OUTLET / USB COMBO	○ ₄ 4" RECESSED LED CEILING CAN LIGHT	TRIPLE LAMP CEILING LIGHT (CLOSET)	TRANSFORMER
WIRING CIRCUIT LOW VOLTAGE	₩ DUPLEX OUTLET	HDTY SHOWERING SYSTEM	② 4" VAPOR PROOF LED RECESSED CAN LIGHT	JAMB LIGHT FIXTURE	DRIVER DRIVER
/	GROUND FAULT DUPLEX OUTLET ABOVE	KEYPAD-SYSTEM CONTROL	JUNCTION BOX REINFORCED CEILING MOUNT	TRACK LIGHT FIXTURE	D DEMARCATION BOX
LIGHTING CONTROL	COUNTER	THERMOSTAT	© CEILING JUNCTION BOX	FLUORESCENT FIXTURE-	E ELECTRIC METER
, , , , , , , , , , , , , , , , , , ,	GROUND FAULT INTERRUPTER DUPLEX OUTLET	KP KEYPAD FOR ALARM		SURFACE MOUNT	ELECTRIC PANEL
\$ WALL SWITCH SINGLE POLE	WEATHERPROOF GROUND FAULT DUPLEX OUTLET	(HD) HEAT DETECTOR	SURFACE MOUNTED LED CEILING LIGHT		DISCONNECT SWITCH
\$3 THREE-WAY SWITCH	HALF-SWITCHED DUPLEX OUTLET		PENDANT LIGHT	CEILING FAN (Add light where indicated)	
\$4 FOUR-WAY SWITCH	→ DEDICATED OUTLET	● EF EXHAUST FAN	⊢ WALL MOUNTED INCANDESCENT LIGHT FIXTURE		G GAS METER
\$ _F FAN SWITCH	100 € 220 VOLT OUTLET	L LANDSCAPE LIGHTING (POWER/SWITCH LEG)	CHANDELIER (REINFORCED CEILING MOUNT)		——————————————————————————————————————
\$ _D DIMMER SWITCH	₽ FLOOR OUTLET	© CARBON MONOXIDE/SMOKE DETECTOR		SINGLE I LOOD EIGITI	
\$ THREE-WAY DIMMER SWITCH	HALF SWITCHED FLOOR OUTLET	- COMBINATION UNIT	POPEX DECORATIVE EXTERIOR SCONCE	PHOTO CELL DOUBLE FLOOD LIGHT	AIR SWITCH
D DIMMER SWITCH ON SYSTEM	☐ TELEPHONE/DATA-FLOOR	S SPEAKER (OPTIONAL)		UC STRIP LIGHT	● PIN LIGHT
SINGLE POLE SWITCH ON SYSTEM		GARBAGE DISPOSAL	AIMABLE RECESSED DOWN LIGHT LOW VOLTAGE	STRIP LIGHT ABOVE CABINET	LOW VOLTAGE PANEL
H● PUSH BUTTON SWITCH (GARAGE DOOR)	CLOCK BOX-WALL	ELECTRIC DOOR OPERATOR (GARAGE)	└√⊚ LED RECESSED DOWN LIGHT -	— TOE KICK STRIP LIGHT	
MOTORIZED SHADE (INTERIOR)	BOX 22 TV RECESSED TV COMBINATION BOX		PHOTO CELL		
H⊕EX MOTORIZED SHUTTERS (EXTERIOR)	HTV TV CONNECTION	3" RECESSED INCANDESCENT CEILING LIGHT	● PUCK LIGHT	PLUG MOLD	
HDB DOOR BELL	□ TELEPHONE/DATA-WALL	4" RECESSED INCANDESCENT CEILING LIGHT	B DOUBLE LAMP CEILING LIGHT (CLOSET)	COVE LIGHTING-LINEAR	

ELECTRICAL SYMBOLS LEGEND

SCALE: NTS

UPPER FLOOR PLAN WITH OPTIONS - ELECTRICAL





150 MPH ULTIMATE DESIGN WIND SPEED NOTES FOR LESS THAN 30' MEAN ROOF HEIGHT:

- 1. ENGINEER'S SEAL APPLIES ONLY TO STRUCTURAL COMPONENTS. ENGINEER'S SEAL DOES NOT CERTIFY DIMENSIONAL ACCURACY OR ARCHITECTURAL LAYOUT INCLUDING ROOF
- 2. STRUCTURAL DESIGN PER NORTH CAROLINA
 RESIDENTIAL CODE, 2018 EDITION WITH SPECIAL
 CONSIDERATION TO CHAPTER 45 ("HIGH WIND
 ZONES" FOR 150 MPH WINDS).
- BUILDER IS TO PROVIDE FRAMING CONNECTIONS
 AS REQUIRED BY CHAPTER 45 ("HIGH WIND ZONES" FOR 150 MPH WINDS) OF THE NORTH CAROLINA RESIDENTIAL CODE, 2018 EDITION.
 FOUNDATION ANCHORAGE TO COMPLY WITH SECTION 4504 OF THE NORTH CAROLINA
- 5. MEAN ROOF HEIGHT IS LESS THAN 30 FEET.
 6. WALL CLADDING DESIGNED FOR +24.3 PSF AND
 -32 PSF (+/- INDICATE POSITIVE / NEGATIVE
 PRESSURE (TYP).
 7. ROOF CLADDING DESIGNED FOR +22.2 PSF AND

RESIDENTIAL CODE, 2018 EDITION.

- -28 PSF FOR ROOF PITCHES 7/12 TO 12/12
 AND +14 PSF AND -57 PSF FOR ROOF PITCHED 2.25/12 TO 7/12.
- 7/16" OSB SHEATHING IS REQUIRED ON ALL EXTERIOR WALLS.

 WALLS TO BE BRACED IN ACCORDANCE WITH SECTION R602.10 OF THE NORTH CAROLINA
- ON PLANS.

 ENERGY EFFICIENCY COMPLIANCE AND INSULATION VALUES OF THE BUILDING TO BE IN ACCORDANCE WITH CHAPTER 11 OF THE NCRC, 2018 EDITION.

RESIDENTIAL CODE, 2018 EDITION AND AS NOTED

120 MPH ULTIMATE DESIGN WIND SPEED NOTES FOR LESS THAN 30' MEAN ROOF HEIGHT:

- ENGINEER'S SEAL APPLIES ONLY TO STRUCTURAL COMPONENTS. ENGINEER'S SEAL DOES NOT CERTIFY DIMENSIONAL ACCURACY OR ARCHITECTURAL
- LAYOUT INCLUDING ROOF SYSTEM.

 2. STRUCTURAL DESIGN PER NORTH CAROLINA

 PESIDENTIAL CODE 2018 EDITION
- RESIDENTIAL CODE, 2018 EDITION.

 3. INSTALL 1/2" ANCHOR BOLTS 6'-0" O.C. AND WITHIN 1'-0" FROM END OF EACH CORNER.

 ANCHOR BOLTS MUST EXTEND A MINIMUM OF 7"
- MIDDLE THIRD OF PLATE WIDTH.

 4. MEAN ROOF HEIGHT IS LESS THAN 30 FEET.

 5. EXTERIOR WALLS DESIGNED FOR 120 MPH WINDS.

 6. WALL CLADDING DESIGNED FOR +15.5 PSF AND -20

INTO MASONRY OR CONCRETE. LOCATE BOLT WITHIN

- PSF (+/- INDICATE POSITIVE / NEGATIVE
 PRESSURE (TYP).

 7. ROOF CLADDING DESIGNED FOR +14.2 PSF AND -18
 PSF FOR ROOF PITCHES 7/12 TO 12/12 AND +10
- PSF AND -36 PSF FOR ROOF PITCHED 2.25/12 TO 7/12.

 8. INSTALL 7/16" OSB SHEATHING ON ALL EXTERIOR WALLS OF ALL STORIES IN ACCORDANCE WITH SECTION BEGG 10.3 OF THE NICES 2018 EDITION
- SECTION R602.10.3 OF THE NCRC, 2018 EDITION.
 SEE THE WALL BRACING NOTES AND DETAILS SHEET FOR MORE INFORMATION.

 9. ENERGY EFFICIENCY COMPLIANCE AND INSULATION
- VALUES OF THE BUILDING TO BE IN ACCORDANCE WITH CHAPTER 11 OF THE NCRC, 2018 EDITION.

 10. REFER TO NOTES AND DETAIL SHEETS FOR ADDITIONAL STRUCTURAL INFORMATION.

_		
		LEGEND
	CONT	CONTINUOUS
	XJ	EXTRA JOIST
	DJ	DOUBLE JOIST
	TJ	TRIPLE JOIST
	EA	EACH
	FDN	FOUNDATION
	FTG	FOOTING
	OC	ON CENTER
	SPF	SPRUCE PINE FIR
	SYP	SOUTHERN YELLOW PINE
	TRTD	PRESSURE TREATED
	TYP	TYPICAL
	UNO	UNLESS NOTED OTHERWISE

DATE: MARCH 8, 2024

SCALE: 1/4" = 1'-0"

DRAWN BY: ASCOT GROUP

DOWNTON 2018 NCRC ASCOT GROUP

ENGINEERED BY: WFB

S-1.3a STEM WALL FOUNDATION PLAN



6 x 6 TRTD. POST

8-6 CEILING HGT. 9-0 CEILING HGT.

14" FLOOR TRUSSES

ENGINEERED BY OTHERS

FRAME TRAY DOWN

14" FLOOR TRUSSES

ENGINEERED BY OTHERS

14" FLOOR TRUSSES

ENGINEERED BY OTHERS

19'-4" GB w/ FRONT LOAD ONLY 130, 140, AND 150 MPH WIND ZONES ONLY

> 14" FLOOR TRUSSES ENGINEERED BY OTHERS

ROOF TRUSSES ENG.

GARAGE PORTAL FRAME. SEE METHOD ——

PF WALL BRACING DETAIL

(3) 1 3/4" x 11 7/8" LVL CONT. CORNER TO CORNER

w/(2) 2 x 6 JACKS EA. BRG. PT.

MIN. (TYP.)

|

(3) 2 x 10

(2) 2 x 12 CONT.

8-6 CEILING HGT. 9-0 CEILING HGT.

SIMPSON

FRAME TRAY DOWN

CANTILEVER TRUSSES

ENGINEERED BY OTHERS 🖫 🖸

TO TOP RISER

ROOF TRUSSES ENG.

ENGINEERED BY OTHER

14" FLOOR TRUSSES

ENGINEERED BY OTHERS

8-6 CEILING HGT. 9-0 CEILING HGT.

FRAME TRAY DOWN

(2) 1 3/4" x 9 1/4" LVL

w/ (2) JACKS EA. END

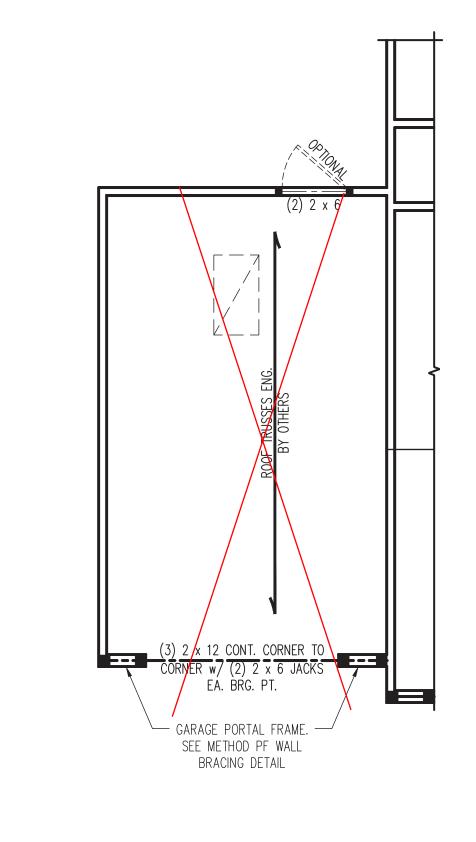
ROOF TRUSSES ENG.

BY OTHERS

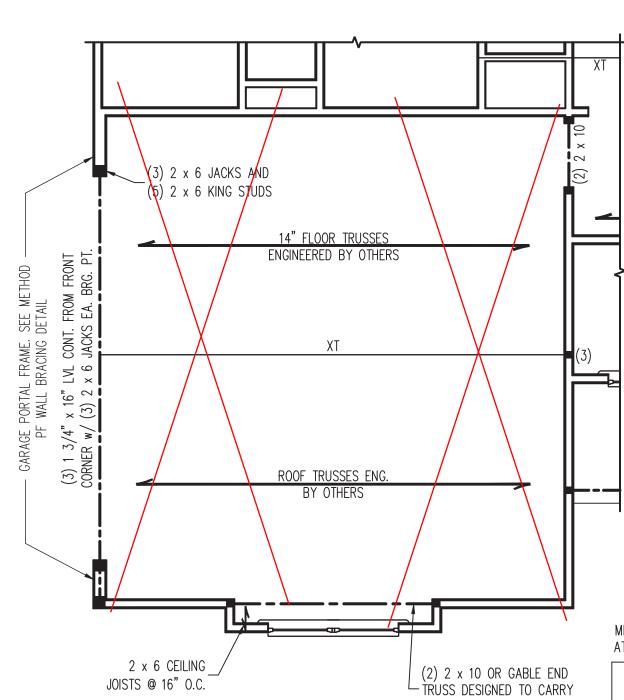
4 x 4 TRTD. POST

MIN. (TYP.)

BY OTHERS



OPTIONAL THIRD CAR GARAGE



OPTIONAL SIDE LOAD GARAGE

ROOF LOAD FROM BUMPOUT

BRACED WALL DESIGN NOTES:

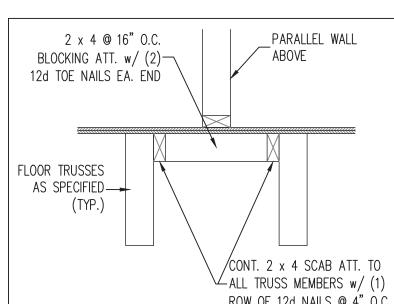
- . BRACED WALL DESIGN PER SECTION R602.10.5 "WALL BRACING BY ENGINEERED DESIGN" OF THE NCRC 2018 EDITION USING BRACING MATERIALS AND METHODS LISTED IN TABLE R602.10.1 ALONG WITH ALTERNATIVE MATERIALS AND METHODS THAT COMPLY WITH ACCEPTED ENGINEERING PRACTICE. BRACED WALL DESIGN IS NOT PRESCRIPTIVE. . SHEATH ALL EXTERIOR WALLS w/ 7/16" OSB TO PROVIDE CS-WSP WALL
- BRACING THAT WILL BRACE THE STRUCTURE FOR ALL LATERAL LOADS AS REQUIRED BY THE NCRC 2018 EDITION. 3. CS-WSP REFERS TO "CONTINUOUSLY SHEATHED WOOD STRUCTURAL PANELS." CONTRACTOR IS TO INSTALL 7/16" OSB ON ALL EXTERIOR WALLS
- O.C. IN THE FIELD. 4. GB REFERS TO "GYPSUM BOARD." CONTRACTOR IS TO INSTALL 1/2" (MIN.) GYPSUM BOARD ON BOTH SIDES OF WALL WHERE NOTED ON THE PLANS ATTACHED WITH 1 1/4" LONG #6 SCREWS OR 1 5/8" LONG 5d COOLER

ATTACHED w/8d NAILS SPACED 6" O.C. ALONG PANEL EDGES AND 12"

- NAILS SPACED 7" O.C. ALONG PANEL EDGES AND IN THE FIELD. 5. BRACED WALL DESIGN APPLIED IN WIND ZONES UP TO 130 MPH. FOR HIGH | WIND ZONES, BRACED WALLS ARE TO BE CONSTRUCTED IN ACCORDANCE WITH CHAPTER 45 OF THE NCRC 2018 EDITION.
- 6. SEE NOTES AND DETAIL SHEETS FOR ADDITIONAL BRACED WALL INFORMATION.

STRUCTURAL NOTES:

- ALL FRAMING LUMBER TO BE SPF #2 (UNO). ALL TREATED LUMBER TO BE
 - ALL LOAD BEARING HEADERS TO BE (2) 2 x 6 (UNO).
- INSTALL 2 x 4 @ 16" O.C. BLOCKING BETWEEN ADJACENT TRUSSES UNDER WALLS PARALLEL TO FLOOR TRUSSES WHERE WALL LENGTH EXCEEDS 1/3 OF TRUSS SPAN (SEE DETAIL THIS SHEET). TRUSS DESIGNER TO DESIGN ADJACENT TRUSSES FOR ADDITIONAL LOADING FROM WALLS.
- WINDOW AND DOOR HEADERS TO BE SUPPORTED w/ (1) JACK STUD AND (1) KING STUD EA. END (UNO.). SEE TABLE R602.7.5 FOR ADDITIONAL KING STUD REQUIREMENTS.
- SQUARES DENOTE POINT LOADS WHICH REQUIRE SOLID BLOCKING TO GIRDER OR FOUNDATION. ALL SQUARES TO BE (2) STUDS (UNO.)
- . FOR HIGH WIND ZONES, ALL EXTERIOR WALLS TO BE SHEATHED WITH 7/16" | OSB SHEATHING WITH JOINTS BLOCKED AND SECURED WITH 8d NAILS AT 3" O.C. ALONG EDGES AND 6" O.C. IN THE FIELD.
- FOR HIGH WIND ZONES, SECURE ALL EXTERIOR WALL SHEATHING PANELS TO DOUBLE TOP PLATES, BANDS, JOISTS, AND GIRDERS WITH (2) ROWS OF 8d NAILS STAGGERED AT 3" O.C. PANELS SHALL EXTEND 12" BEYOND CONSTRUCTION JOINTS AND SHALL OVERLAP GIRDERS AND DOUBLE SILL PLATES THEIR FULL DEPTH.
- 8. ALL 4 x 4 POSTS SHALL BE ANCHORED TO SLABS w/ SIMPSON ABU44 POST BASES (OR EQUAL) AND 6 x 6 POSTS w/ ABU66 POST BASES (OR EQUAL) (UNO). ALL 4 x 4 AND 6 x 6 POSTS TO BE INSTALLED WITH 700 LB CAPACITY UPLIFT CONNECTORS AT TOP (UNO.)
- 9. FOR FIBERGLASS, ALUMINUM, OR COLUMN ENG. BY OTHERS, SECURE TO SLAB w/ (2) METAL ANGLES USING 2" CONC. SCREWS. FASTEN ANGLES TO COLUMNS w/ 1/4" THROUGH BOLTS w/ NUTS AND WASHERS. LOCATE ANGLES ON OPPOSITE SIDES OF COLUMN. THROUGH BOLTS MUST BE INSTALLED PRIOR TO SETTING COLUMN.
- 10. REFER TO NOTES AND DETAIL SHEETS FOR ADDITIONAL STRUCTURAL INFORMATION.



INSTALL 2 x 4 @ 16" O.C. BLOCKING BETWEEN ADJACENT TRUSSES UNDER WALLS PARALLEL TO FLOOR TRUSSES WHERE WALL LENGTH EXCEEDS 1/3 OF TRUSS SPAN. TRUSS DESIGNER TO DESIGN ADJACENT TRUSSES FOR ADDITIONAL LOADING FROM WALLS.

TABLE R602.7.5 MINIMUM NUMBER OF FULL HEIGHT KING STUDS AT EACH END OF HEADERS IN EXTERIOR WALLS

EADER SPAN (FEET)	MINIMUM NUMBER OF FULL HEIGHT STUDS (KINGS)
UP TO 3'	1
> 3' TO 6'	2
> 6' TO 9'	3
> 9' TO 12'	4
· 12' TO 15'	5

LEGEND		
CONT	CONTINUOUS	
XJ	EXTRA JOIST	
DJ	DOUBLE JOIST	
TJ	TRIPLE JOIST	
EA	EACH	
()	NUMBER OF STUDS	
DSP	DOUBLE STUD POCKET	
TSP	TRIPLE STUD POCKET	
OC	ON CENTER	
SPF	SPRUCE PINE FIR	
SYP	SOUTHERN YELLOW PINE	

TRTD PRESSURE TREATED

UNO UNLESS NOTED OTHERWISE

TYP TYPICAL

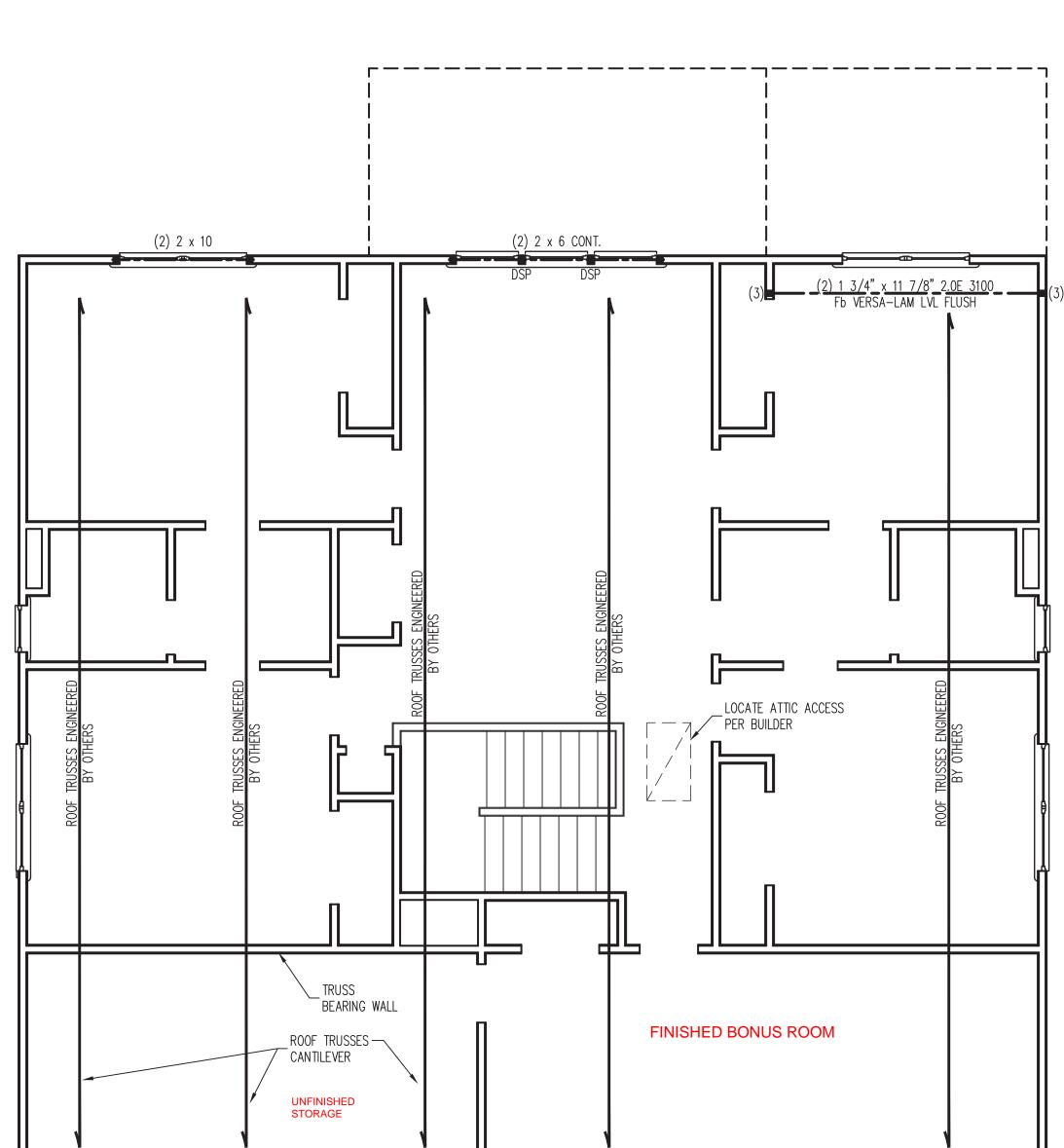
DOWNTON ASCOT GROUF

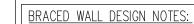
ROW OF 12d NAILS @ 4" O.C. TRUSS BLOCKING DETAIL

> DATE: MARCH 8, 2024 SCALE: 1/4" = 1'-0" DRAWN BY: ASCOT GROUP ENGINEERED BY: WFB

> > SECOND FLOOR FRAMING PLAN







- 1. BRACED WALL DESIGN PER SECTION R602.10.5 "WALL BRACING BY ENGINEERED DESIGN" OF THE NCRC 2018 EDITION USING BRACING MATERIALS AND METHODS LISTED IN TABLE R602.10.1 ALONG WITH ALTERNATIVE MATERIALS AND METHODS THAT COMPLY WITH ACCEPTED ENGINEERING PRACTICE. BRACED WALL DESIGN IS NOT PRESCRIPTIVE.
- 2. SHEATH ALL EXTERIOR WALLS w/ 7/16" OSB TO PROVIDE CS-WSP WALL BRACING THAT WILL BRACE THE STRUCTURE FOR ALL LATERAL LOADS AS REQUIRED BY THE NCRC 2018 EDITION.
- 3. CS-WSP REFERS TO "CONTINUOUSLY SHEATHED WOOD STRUCTURAL PANELS." CONTRACTOR IS TO INSTALL 7/16" OSB ON ALL EXTERIOR WALLS ATTACHED w/ 8d NAILS SPACED 6" O.C. ALONG PANEL EDGES AND 12" O.C. IN THE FIELD.
- 4. GB REFERS TO "GYPSUM BOARD." CONTRACTOR IS TO INSTALL 1/2" (MIN.) GYPSUM BOARD ON BOTH SIDES OF WALL WHERE NOTED ON THE PLANS ATTACHED WITH 1 1/4" LONG #6 SCREWS OR 1 5/8" LONG 5d COOLER NAILS SPACED 7" O.C. ALONG PANEL EDGES AND IN THE FIELD.
- 5. BRACED WALL DESIGN APPLIED IN WIND ZONES UP TO 130 MPH. FOR HIGH WIND ZONES, BRACED WALLS ARE TO BE CONSTRUCTED IN ACCORDANCE WITH CHAPTER 45 OF THE NCRC 2018 EDITION.
- 6. SEE NOTES AND DETAIL SHEETS FOR ADDITIONAL BRACED WALL INFORMATION.

STRUCTURAL NOTES:

- 1. ALL FRAMING LUMBER TO BE SPF #2 (UNO). ALL TREATED LUMBER TO BE SYP #2 (UNO.)
- 2. ALL LOAD BEARING HEADERS TO BE (2) 2 x 6 (UNO). 3. WINDOW AND DOOR HEADERS TO BE SUPPORTED w/(1)
- JACK STUD AND (1) KING STUD EA. END (UNO.). SEE TABLE R602.7.5 FOR ADDITIONAL KING STUD REQUIREMENTS.
- 4. SQUARES DENOTE POINT LOADS WHICH REQUIRE SOLID BLOCKING TO GIRDER OR FOUNDATION. ALL SQUARES TO BE (2) STUDS (UNO.)
- 5. FOR HIGH WIND ZONES, ALL EXTERIOR WALLS TO BE SHEATHED WITH 7/16" OSB SHEATHING WITH JOINTS BLOCKED AND SECURED WITH 8d NAILS AT 3" O.C. ALONG EDGES AND 6" O.C. IN THE FIELD.
- 6. FOR HIGH WIND ZONES, SECURE ALL EXTERIOR WALL SHEATHING PANELS TO DOUBLE TOP PLATES, BANDS, JOISTS, AND GIRDERS WITH (2) ROWS OF 8d NAILS STAGGERED AT 3" O.C. PANELS SHALL EXTEND 12" BEYOND CONSTRUCTION JOINTS AND SHALL OVERLAP GIRDERS AND DOUBLE SILL PLATES THEIR FULL DEPTH.
- REFER TO NOTES AND DETAIL SHEETS FOR ADDITIONAL STRUCTURAL INFORMATION.

TABLE R602.7.5 MINIMUM NUMBER OF FULL HEIGHT KING STUDS AT EACH END OF HEADERS IN EXTERIOR WALLS

AT EACH END OF	HEADERS IN EXTERIOR W
HEADER SPAN (FEET)	MINIMUM NUMBER OF FUI HEIGHT STUDS (KINGS)
UP TO 3'	1
> 3' TO 6'	2
> 6' TO 9'	3
> 9' TO 12'	4
> 12' TO 15'	5

	LEGEND
CONT	CONTINUOUS
XT	EXTRA TRUSS
TS	TRUSS SUPPORT
EA	EACH
()	NUMBER OF STUDS
DSP	DOUBLE STUD POCKET
TSP	TRIPLE STUD POCKET
OC	ON CENTER
SPF	SPRUCE PINE FIR
SYP	SOUTHERN YELLOW PINE
TRTD	PRESSURE TREATED
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE

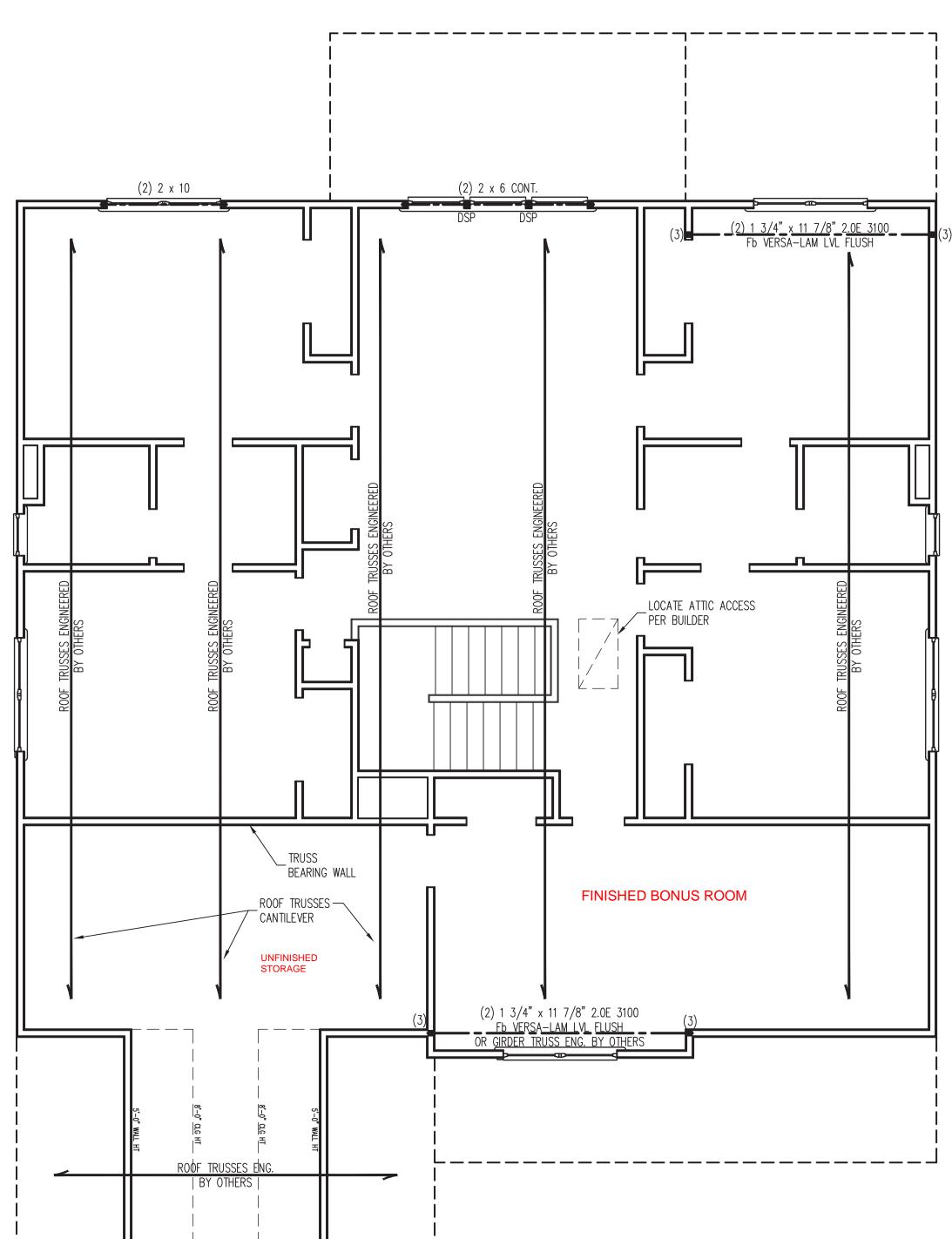
DATE: MARCH 8, 2024 SCALE: 1/4" = 1'-0"

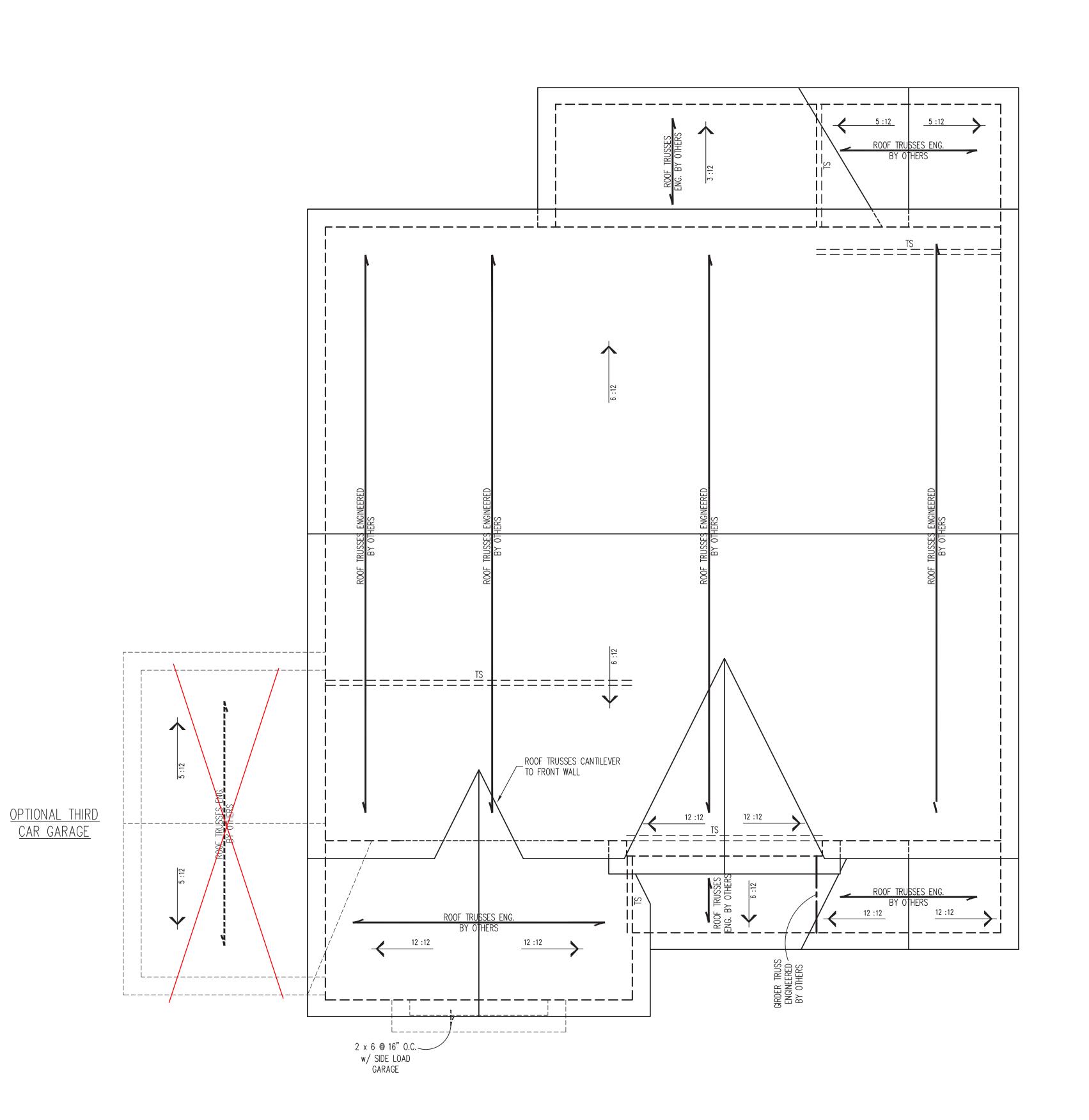
DRAWN BY: ASCOT GROUP

ENGINEERED BY: WFB

S-3 ATTIC FLOOR FRAMING PLAN







STRUCTURAL NOTES:

ALL FRAMING LUMBER TO BE #2 SPF (UNO).
 STICK FRAME OVER-FRAMED ROOF SECTIONS W/
2 x 8 RIDGES, 2 x 6 RAFTERS @ 16" O.C. AND
FLAT 2 x 10 VALLEYS OR USE VALLEY TRUSSES.
 FASTEN FLAT VALLEYS TO RAFTERS OR TRUSSES
WITH SIMPSON H2.5A HURRICANE TIES @ 32" O.C.
MAX. PASS HURRICANE TIES THROUGH NOTCH IN
ROOF SHEATHING. EACH RAFTER IS TO BE
FASTENED TO THE FLAT VALLEY WITH A MIN. OF
(6) 12d TOE NAILS.
 REFER TO SECTION R802.11 OF THE 2018 NCRC

REFER TO SECTION R802.11 OF THE 2018 NCRC FOR REQUIRED UPLIFT RESISTANCE AT RAFTERS AND TRUSSES.

REFER TO NOTES AND DETAIL SHEETS FOR ADDITIONAL STRUCTURAL INFORMATION.

NOTE: REFER TO ARCHITECTURAL
DRAWINGS FOR ROOF PITCHES, PLATE
HEIGHTS, DIMENSIONS, OVERHANG
WIDTHS, AND ATTIC VENT CALCS.

	LEGEND XT EXTRA TRUSS		
	TS	TRUSS SUPPORT	
	XR	EXTRA RAFTER	
	RS	RAFTER SUPPORT	
	CONT	CONTINUOUS	
	EA	EACH	
	OC	ON CENTER	
	SPF	SPRUCE PINE FIR	
	SYP	SOUTHERN YELLOW PINE	
	TYP	TYPICAL	
	UNO	UNLESS NOTED OTHERWISE	

DOWNTON SCOT GROUP

DATE: MARCH 8, 2024

SCALE: 1/4" = 1'-0"

DRAWN BY: ASCOT GROUP

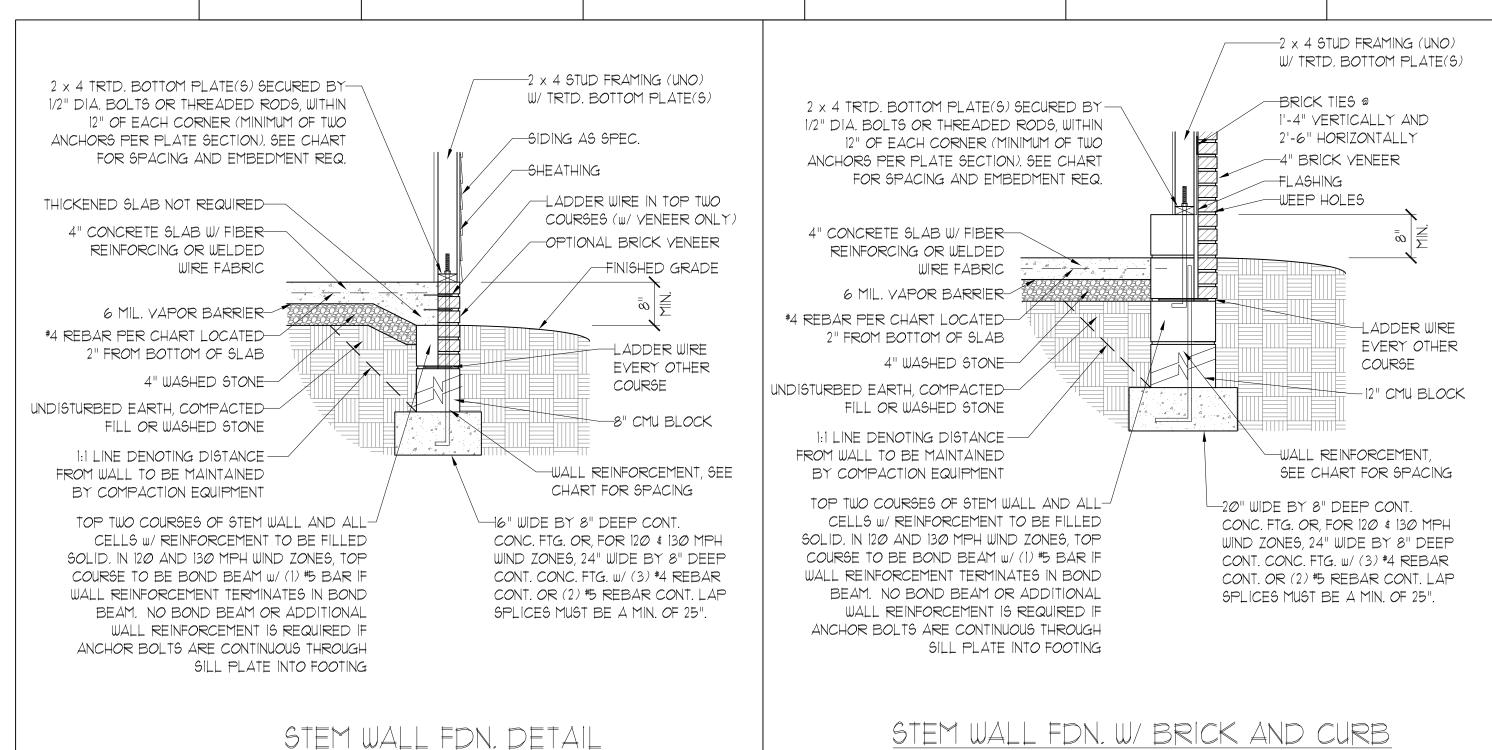
ENGINEERED BY: WFB

S-4 ROOF FRAMING PLAN



C 27605

ANCHOR SPACING AND EMBEDMENT				
WIND ZONE	100 MPH	110 MPH	120 MPH	130 MPH
SPACING	6'-0" O.C. 3'-0" O.C. FOR STRAPS	4'-0" O.C. 2'-0" O.C. FOR STRAPS	6'-0" O.C. w/ DBL. SILL PLATE OR 4'-0" O.C w/ SINGLE SILL PLATE w/ 2" x 2" x 1/8" WASHERS	6'-0" O.C. w/ DBL. SILL PLATE OR 4'-0" O.C w/ SINGLE SILL PLATE w/ 2" x 2" x 1/8" WASHERS
EMBEDMENT	7"	15" INTO MASONRY 7" INTO CONCRETE	15" INTO MASONRY 7" INTO CONCRETE	15" INTO MASONRY 7" INTO CONCRETE



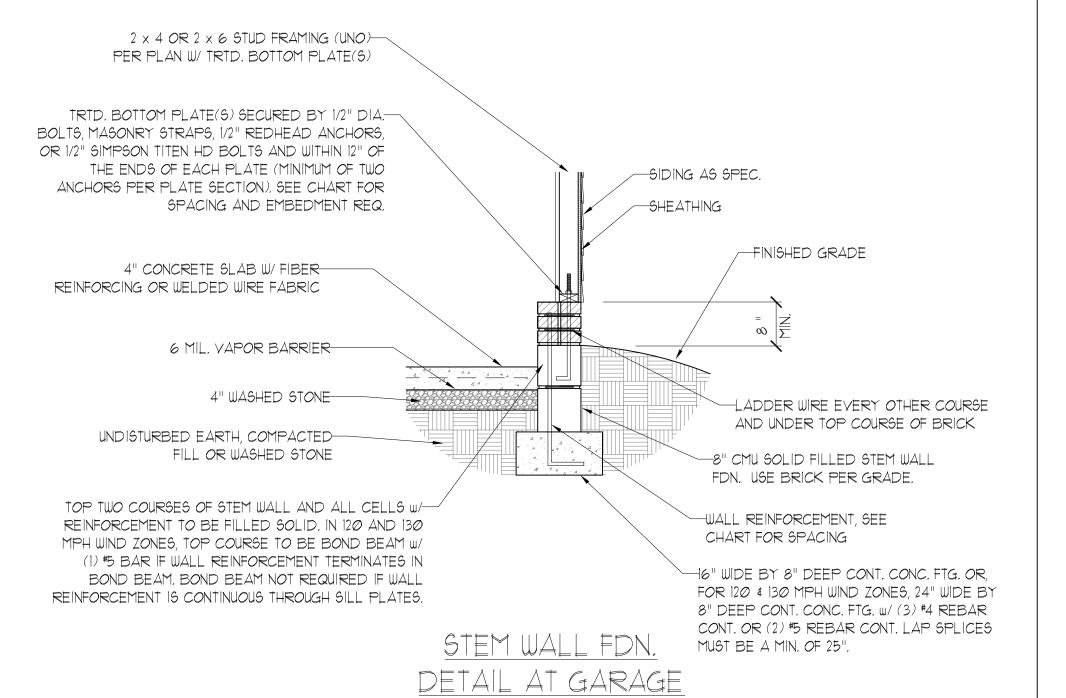
MASONRY STEMWALL SPECIFICATIONS					
WALL HEIGHT	MASONRY WALL TYPE				PERIMETER SLAB
(FEET)	8" CMU	4" BRICK AND 4" CMU	4" BRICK AND 8" CMU	12" CMU	REINFORCEMENT ALL WALL TYPES
2 AND BELOW	UNGROUTED	GROUT SOLID	UNGROUTED	UNGROUTED	#4 × 4'-Ø" @ 32" O.C.
3	GROUT SOLID	GROUT SOLID	GROUT SOLID	GROUT SOLID	#4 x 5'-Ø" @ 24" O.C.
4	GROUT SOLID	GROUT SOLID w/ #4 REBAR @ 36" O.C.	GROUT SOLID w/ #4 REBAR @ 64" O.C.	GROUT SOLID	#4 × 6'-0" @ 16" O.C.

STRUCTURAL NOTES:

- WALL HEIGHT MEASURED FROM TOP OF FOOTING TO TOP OF THE WALL.
- 2. TIE MULTIPLE WYTHES TOGETHER WITH LADDER WIRE AT 16" O.C. VERTICALLY.
- 3. CHART APPLICABLE FOR HOUSE FOUNDATION ONLY. CONSULT ENGINEER FOR DESIGN OF GARAGE FOUNDATION NOT COMMON TO HOUSE.
- 4. BACKFILL OF PROCESSED FILL IS ALLOWABLE.
- COMPACT PROCESSED FILL TO 90% OF STANDARD PROCTOR IN LIFTS. FILL TO BE SUPERVISED DURING INSTALLATION BY A GEOTECHNICAL ENGINEER. UPON COMPLETION, THE FILL IS TO BE CERTIFIED BY GEOTECHNICAL ENGINNER IN A SEALED REPORT.
- 6. PREP SLAB PER R506.2.1 AND R506.2.2 BASE AND EXCEPTION OF 2012 NORTH CAROLINA RESIDENTIAL CODE.
- 7. MINIMUM 24" LAP SPLICE LENGTH.
- 8. LOCATE REBAR IN CENTER OF FOUNDATION WALL.
- WHERE REQUIRED, FILL BLOCK SOLID WITH TYPE "S" MORTAR OR 3000 PSI GROUT, USE OF "LOW LIFT GROUTING" METHOD REQUIRED WHEN FILLING WALLS WITH GROUT AT HEIGHTS OF 5' AND GREATER.
- 10. REBAR IN SLAB TO EXTEND MIN. 4" ONTO LEDGE OR EMBED MIN. 4" W/ EPOXY INTO SOLID FILLED BLOCK OR BEND VERTICALLY A MIN. 12" INTO GROUTED CELLS.

	1
2 x 4 STUD FRAMING (UNO) W TRID. BOTTOM PLATE(S) SECURED BY 1/2" DIA, BOLTS OR THREADED RODS, WITHIN 1/2" OF EACH CORNER (MINIMUM OF TWO ANCHORS PER PLATE SECTION). SEE CHART FOR SPACING AND EMBEDMENT REQ. 4" CONCRETE SLAB W FIBER REINFORCING OR WELDED WIRE FABRIC 4" BR CK VENEER FLASHING FLASHING WEEP HOLES WEEP CONT. CONC. FTG. W. (3) "W. REBAR CONT. LAP SPLICES MUST BE A MIN. OF 25". SPLICES MUST BE A MIN. OF 25".	2 x 4 STID FRAMING (UND) 2 x 4 TRID. BOTTOM PLATE(S) SECURED BY 1/2 DIA. BOLTS OR THREADED RODS, WITHIN 1/2 OF EACH CORNER (MINIMUM OF TWO ANCHORS PER PLATE SECTION). SEE CHART FOR SPACING AND EMBEDMENT REQ. 4" CONCRETE SLAB W FIBER REINFORCING OR WELDED WIRE FABRIC 6 MIL. VAPOR BARRIER 14 REBAR PER CHART LOCATED 2" FROM BOTTOM OF SLAB 4" WASHED STONE HI LINE DENOTING DISTANCE FROM WALL TO BE MAINTAINED BY COMPACTION EQUIPMENT TOP TWO COURSES OF STEM WALL AND ALL- CELLS W REINFORCEMENT TO BE FILLED SOLID. IN 120 AND 130 MPH WIND ZONES, TOP CONCRETE TO BE BOND BEAM OF ADDITIONAL WALL REINFORCEMENT TERMINATES IN BOND BEAM. NO BOND BEAM OR ADDITIONAL WALL REINFORCEMENT TERMINATES IN BOND BEAM. NO BOND BEAM OR ADDITIONAL WALL REINFORCEMENT TO REQUIRED IF ANCHOR BOLTS ARE CONTINUOUS THROUGH SILL PLATE INTO FOOTING STEM WALL FON. W/ OPTIONAL OPTIONAL STEM WALL FON. W/ OPTIONAL OPTIONAL STEM WALL FON. W/ OPTIONAL OPTIONAL SHEATHING SHEATH
	OIEIIWALL TUN. W/ OF HONAL

STEM WALL FDN. W/ BRICK DETAIL





DATE: FEBRUARY 4, 2022 SCALE: NTS DRAWN BY: JST **ENGINEERED BY: JST**

STEM WALI FOUNDATION DE

FOUNDATION DETAILS

CRITICAL THAT 1:1 LINE FROM WALL BE MAINTAINED BY COMPACTION EQUIPMENT. FOR EXAMPLE 3'-0" WALL, EQUIPMENT IS TO STAY 3'-O" FROM THE WALL TO PREVENT EXCESS PRESSURE AND WALL FAILURE.

BRICK WATERTABLE DETAIL

NOTE: REBAR REQUIRED IN HIGH WIND ZONES ONLY (120 MPH = 130 MPH) LOCATE REBAR MIN 3" ABOVE BOTTOM OF FOOTING W/MIN. 25" LAP SPLICE LENGTH.

140 MPH - 150 N STEM N

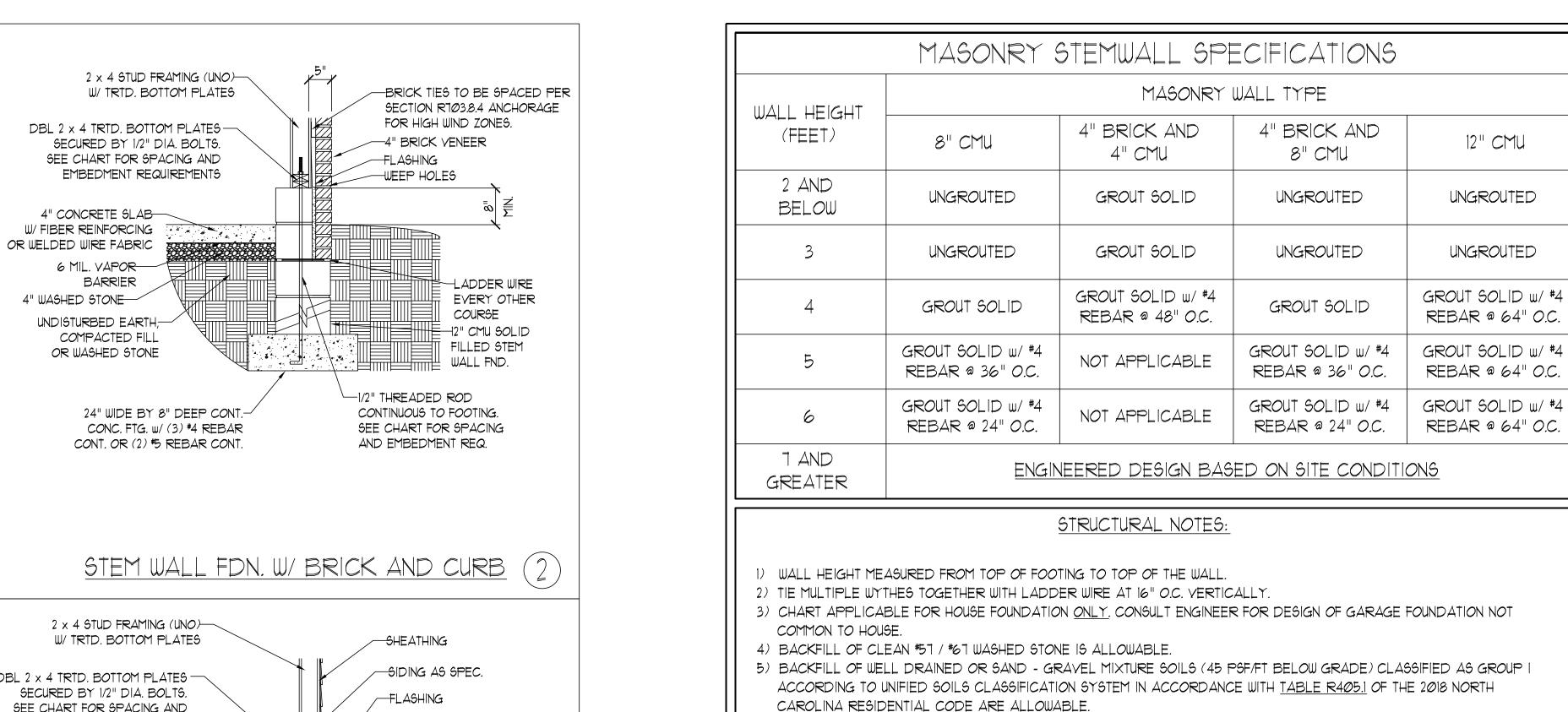
DATE: AUGUST 30, 2022 SCALE: NTS

DRAWN BY: JST

ENGINEERED BY: JST

DETAILS

FOUNDATION



NOTE:

LOCATE REBAR 3" ABOVE BOTTOM OF FOOTING W/MIN. 25" LAP SPLICE LENGTH.

	2 x 4 STUD FRAMING (UNO)	
	W/ TRTD. BOTTOM PLATES	SHEATHING
•	DBL 2 x 4 TRTD. BOTTOM PLATES SECURED BY 1/2" DIA. BOLTS. SEE CHART FOR SPACING AND EMBEDMENT REQUIREMENTS 4" CONCRETE SLAB W/ FIBER REINFORCING OR WELDED WIRE FABRIC 6 MIL. VAPOR BARRIER 4" WASHED STONE UNDISTURBED EARTH, COMPACTED FILL OR WASHED STONE	SIDING AS SPEC. FLASHING OPTIONAL 4" BRICK YENEER WATERTABLE WEEP HOLES 8" CMU SOLID FILLED STEM WALL FND.
	24" WIDE BY 8" DEEP CONT. CONC. FTG. w/ (3) #4 REBAR CONT. OR (2) #5 REBAR CONT.	1/2" THREADED ROD CONTINUOUS TO FOOTING. SEE CHART FOR SPACING AND EMBEDMENT REQ.

STEM WALL FDN. W/ OPTIONAL

<u></u>		
BRICK	WATERTABLE DETAIL	

ANCHOR SPACING AND EMBEDMENT				
WIND ZONE	140 MPH	150 MPH		
SPACING	1'-9" O.C. w/ DBL. SILL PLATE w/ 2" x 2" x 1/8" WASHERS INSTALL MIN. (2) ANCHORS PER PLATE SECTION AND (1) ANCHOR WITHIN 12" OF CORNERS	1'-6" O.C. W/ DBL. SILL PLATE W/ 2" x 2" x 1/8" WASHERS INSTALL MIN. (2) ANCHORS PER PLATE SECTION AND (1) ANCHOR WITHIN 12" OF CORNERS		
EMBEDMENT	RODS CONTINUOUS FROM FOOTING UP THROUGH SILL PLATE W/ 7" MINIMUM CONCRETE EMBEDMENT	RODS CONTINUOUS FROM FOOTING UP THROUGH SILL PLATE W/ 7" MINIMUM CONCRETE EMBEDMENT		

-SIDING AS SPEC.

-LADDER WIRE IN TOP TWO

-OPTIONAL BRICK VENEER

COURSES (w/ YENEER ONLY)

-FINISHED GRADE

LADDER WIRE

EVERY OTHER

-8" CMU SOLID

FILLED STEM

WALL FND.

-1/2" THREADED ROD

CONTINUOUS TO FOOTING.

SEE CHART FOR SPACING

-BRICK TIES TO BE SPACED PER

EVERY OTHER

-12" CMU SOLID

FILLED STEM WALL FND.

1/2" THREADED ROD CONTINUOUS TO FOOTING.

SEE CHART FOR SPACING

AND EMBEDMENT REQ.

SECTION R703.8.4 ANCHORAGE

FOR HIGH WIND ZONES.

-4" BRICK VENEER

-FLASHING

AND EMBEDMENT REQ.

COURSE

-SHEATHING

2 x 4 STUD FRAMING (UNO)— W/ TRTD. BOTTOM PLATES

DBL 2 x 4 TRTD. BOTTOM PLATES-

SECURED BY 1/2" DIA. BOLTS.

SEE CHART FOR SPACING AND

THICKENED SLAB

4" CONCRETE SLAB W/ FIBER REINFORCING

OR WELDED WIRE FABRIC

4" WASHED STONE

NOT REQUIRED

BARRIER

COMPACTED FILL

24" WIDE BY 8" DEEP CONT.

CONC. FTG. w/(3) #4 REBAR

STEM WALL FON. DETAIL

CONT. OR (2) #5 REBAR CONT.

2 x 4 STUD FRAMING (UNO)—

W/ TRTD. BOTTOM PLATES

W/ FIBER REINFORCING
OR WELDED WIRE FABRIC

24" WIDE BY 8" DEEP CONT.-

CONC. FTG. w/ (3) #4 REBAR

STEM WALL FDN. W/ BRICK DETAIL

CONT. OR (2) #5 REBAR CONT.

DBL 2 x 4 TRTD. BOTTOM PLATES -

SECURED BY 1/2" DIA. BOLTS.

SEE CHART FOR SPACING AND EMBEDMENT REQUIREMENTS

4" CONCRETE SLAB-

6 MIL. VAPOR

UNDISTURBED EARTH;

COMPACTED FILL OR WASHED STONE

4" WASHED STONE

OR WASHED STONE

UNDISTURBED EARTH;

EMBEDMENT REQUIREMENTS

THREADED ROD WITH EPOXY OR APPROVED ANCHORS SPACED AS REQUIRED TO PROVIDE EQUIVALENT ANCHORAGE TO 1/2" DIAMETER ANCHOR BOLTS MAY BE USED IN LIEU OF 1/2" ANCHOR BOLTS.

4

NOTE:

1) MINIMUM 24" LAP SPLICE LENGTH. 9) WHERE REQUIRED, FILL BLOCK SOLID WITH TYPE "S" MORTAR OR 3000 PSI GROUT. USE OF "LOW LIFT GROUTING" METHOD REQUIRED WHEN FILLING WALLS WITH GROUT AT HEIGHTS OF 5' AND GREATER.

6) PREP SLAB PER <u>R506.2.1</u> AND <u>R506.2.2</u> BASE AND <u>EXCEPTION</u> OF 2018 NORTH CAROLINA RESIDENTIAL CODE.

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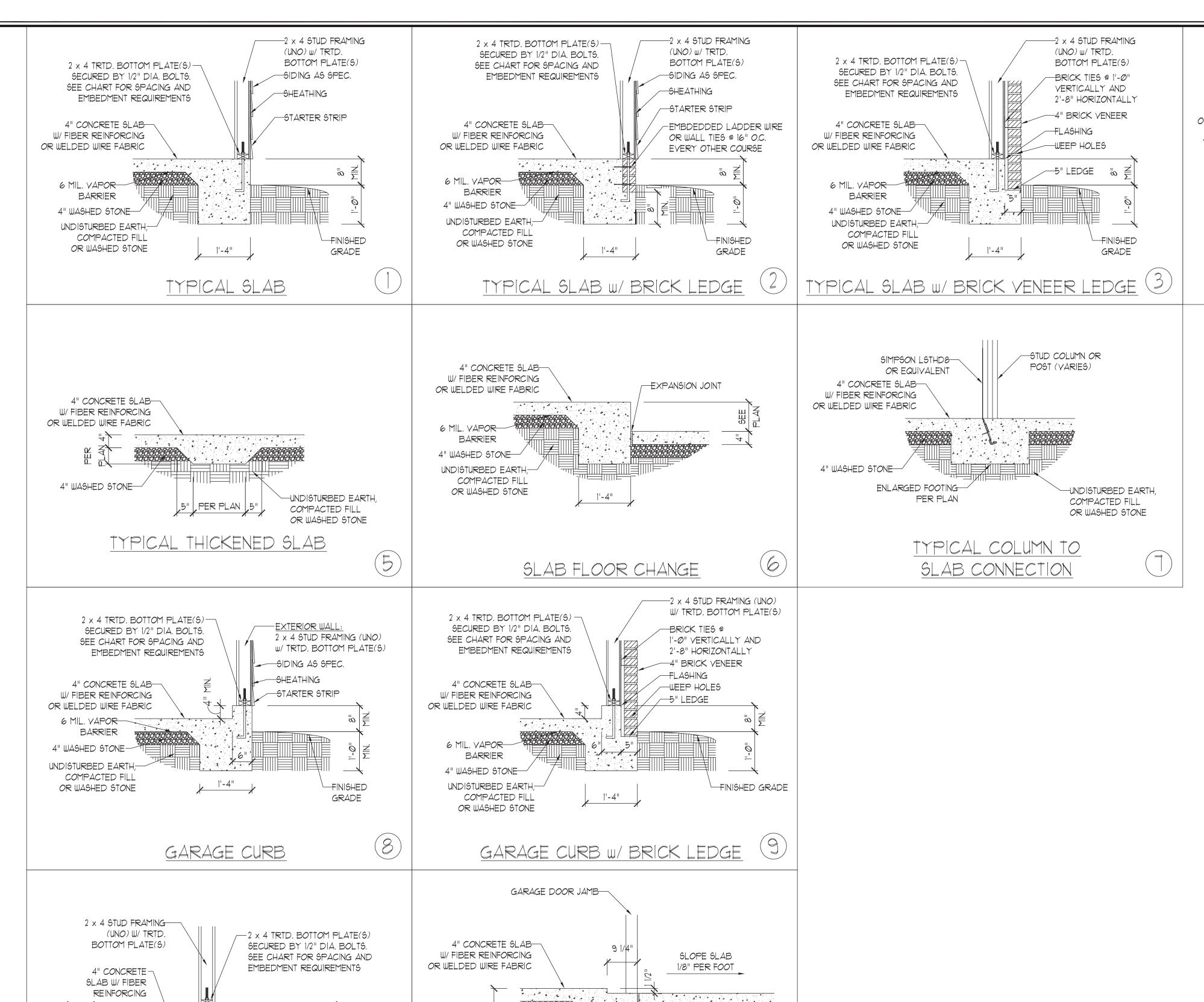
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under N.C. Statute § 89C-23

UNGROUTED

UNGROUTED



1'-4"

SLAB AT GARAGE DOOR

THREADED ROD WITH EPOXY,

TO PROVIDE EQUIVALENT

LIEU OF 1/2" ANCHOR BOLTS.

SIMPSON TITEN HD, OR APPROVED

ANCHORS SPACED AS REQUIRED

ANCHOR BOLTS MAY BE USED IN

ANCHORAGE TO 1/2" DIAMETER

NOTE:

6 MIL. VAPOR BARRIER

4" WASHED STONE

UNDISTURBED EARTH, COMPACTED FILL OR

130 MPH

4'-Ø" O.C.

INSTALL MIN. (2) ANCHORS PER

PLATE SECTION AND (1)

ANCHOR WITHIN 12" OF CORNERS

15" INTO MASONRY

7" INTO CONCRETE

WASHED STONE

-4" CONCRETE \$LAB w/ FIBER REINFORCING OR

WELDED WIRE FABRIC

ANCHOR SPACING AND EMBEDMENT

4" WASHED STONE

WIND ZONE

SPACING

EMBEDMENT

UNDISTURBED EARTH, 6" 6" 6" 6" 6" 6" 6" 6"

STEP IN GARAGE

120 MPH

6'-0" O.C.

INSTALL MIN. (2) ANCHORS PER

PLATE SECTION AND (1)

ANCHOR WITHIN 12" OF CORNERS

7"

-TREATED POST PER PLAN 4" CONCRETE SLAB POST BASE PER PLAN W/ FIBER REINFORCING OR WELDED WIRE FABRIC -FINISHED GRADE 4" WASHED STONE UNDISTURBED EARTH, COMPACTED FILL OR WASHED STONE PORCH/SCREEN PORCH

SLAB ETAIL MONOLITHIC S FOUNDATION DE

3/8/2024

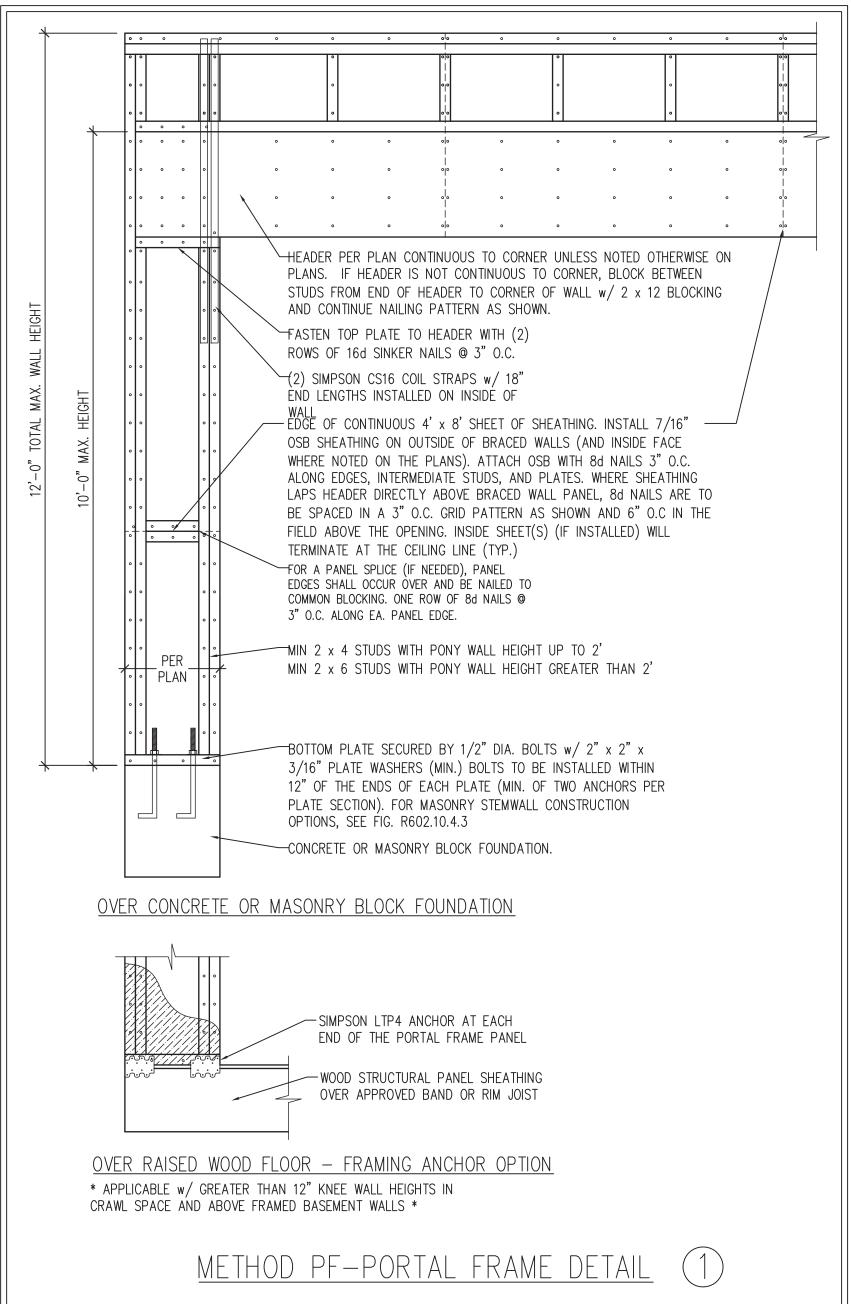
DATE: AUGUST 30, 2022	
SCALE: NTS	
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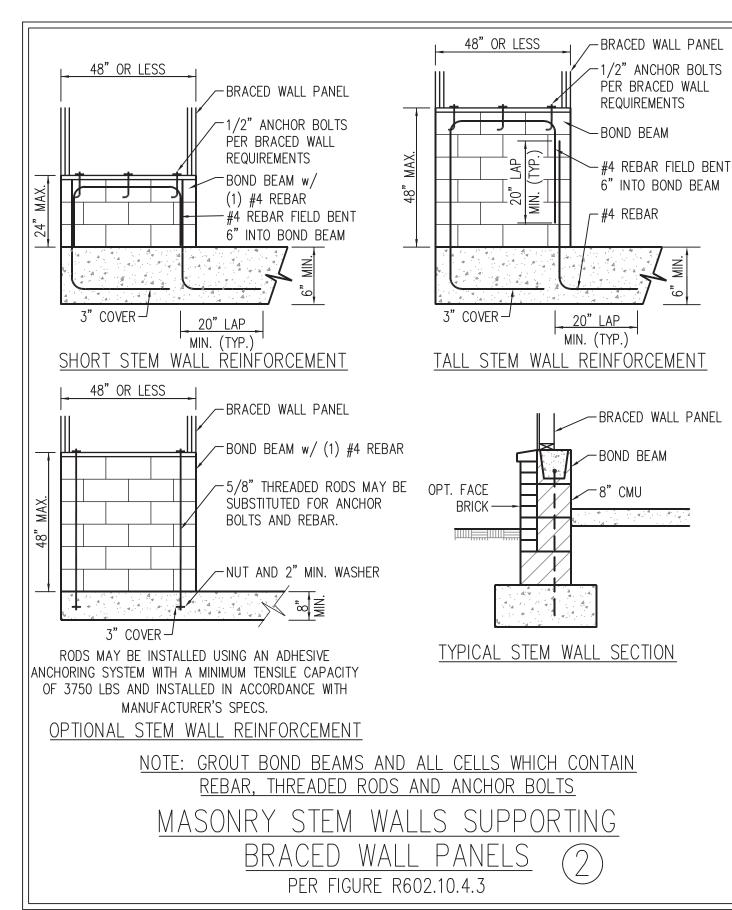
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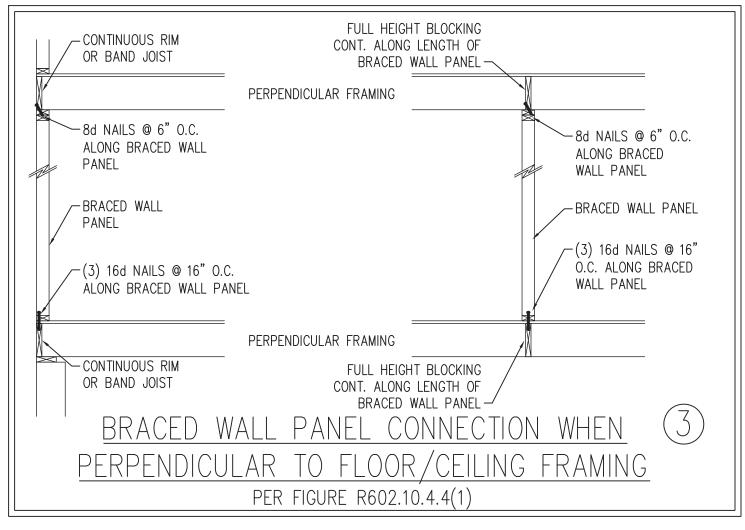
FOUNDATION DETAILS

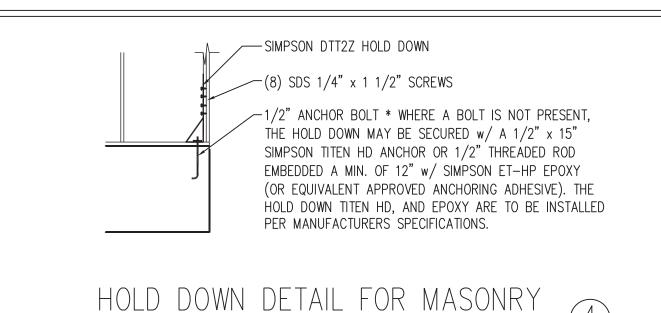
- 1. WALL BRACING DESIGNED IN ACCORDANCE WITH CHAPTER 6 OF THE 2018 NC RESIDENTIAL BUILDING CODE (NCRC). TABLES AND FIGURES REFERENCED ARE FROM THE 2018 NCRC.
- SEE THIS SHEET FOR GENERAL DETAILS. REFER TO THE 2018 NCRC FOR ADDITIONAL INFORMATION AS NEEDED.
 BRACED EXTERIOR WALLS SUPPORTING ROOF TRUSSES AND RAFTERS, INCLUDING STORIES BELOW THE TOP FLOOR, HAVE BEEN DESIGNED PER R602.3.5 (3). WALL SHEATHING AND FASTENERS HAVE BEEN DESIGNED TO RESIST COMBINED UPLIFT AND SHEAR FORCES IN ACCORDANCE WITH ACCEPTED ENGINEERED PRACTICE.
- 4. SEE STRUCTURAL SHEETS FOR BRACED WALL LOCATIONS, DIMENSIONS, HOLD DOWN TYPE AND LOCATIONS, BRACED WALL LINE KEY WITH WALL DESIGN SUMMARY OF REQUIRED/PROVIDED TOTALS FOR EACH WALL LINE AND ANY SPECIAL NOTES OR REQUIREMENTS.

 5. ALL EXTERIOR WALLS ARE TO BE SHEATHED WITH CS—WSP IN ACCORDANCE WITH SECTION R602.10.3 UNLESS NOTED OTHERWISE.
- 6. ALL EXTERIOR AND INTERIOR WALLS TO HAVE 1/2" GYPSUM INSTALLED. WHEN NOT USING METHOD "GB", GYPSUM TO BE FASTENED PER TABLE R702.3.5. METHOD GB TO BE FASTENED PER TABLE R602.10.1
- 7. CS-WSP REFERS TO THE "CONTINUOUS SHEATHING WOOD STRUCTURAL PANELS" WALL BRACING METHOD. 7/16" OSB SHEATHING IS TO BE INSTALLED ON ALL EXTERIOR WALLS ATTACHED w/ 6d COMMON NAILS OR 8d (2 1/2" LONG x 0.113" DIAMETER) NAILS SPACED 6" O.C. ALONG PANEL EDGES AND 12" O.C. IN THE FIELD (U.N.O.).
- 8. GB REFERS TO THE "GYPSUM BOARD" WALL BRACING METHOD. 1/2" (MIN.) GYPSUM WALL BOARD IS TO BE INSTALLED ON BOTH SIDES OF THE BRACED WALL FASTENED WITH 1 1/4" SCREWS OR 1 5/8" NAILS SPACED 7" O.C. ALONG PANEL EDGES INCLUDING TOP AND BOTTOM PLATES AND INTERMEDIATE SUPPORTS (U.N.O.). VERIFY ALL FASTENER OPTIONS FOR 1/2" AND 5/8" GYPSUM PRIOR TO CONSTRUCTION. FOR INTERIOR FASTENER OPTIONS SEE TABLE R602.3(1). EXTERIOR GB TO BE INSTALLED VERTICALLY.
- 9. REQUIRED BRACED WALL LENGTH FOR EACH SIDE OF THE CIRCUMSCRIBED RECTANGLE ARE INTERPOLATED PER TABLE R602. 10.3. METHOD CS-WSP CONTRIBUTES ITS ACTUAL LENGTH, METHOD GB CONTRIBUTES .5 ITS ACTUAL LENGTH, AND METHOD PF CONTRIBUTES 1.5 TIMES ITS ACTUAL LENGTH.



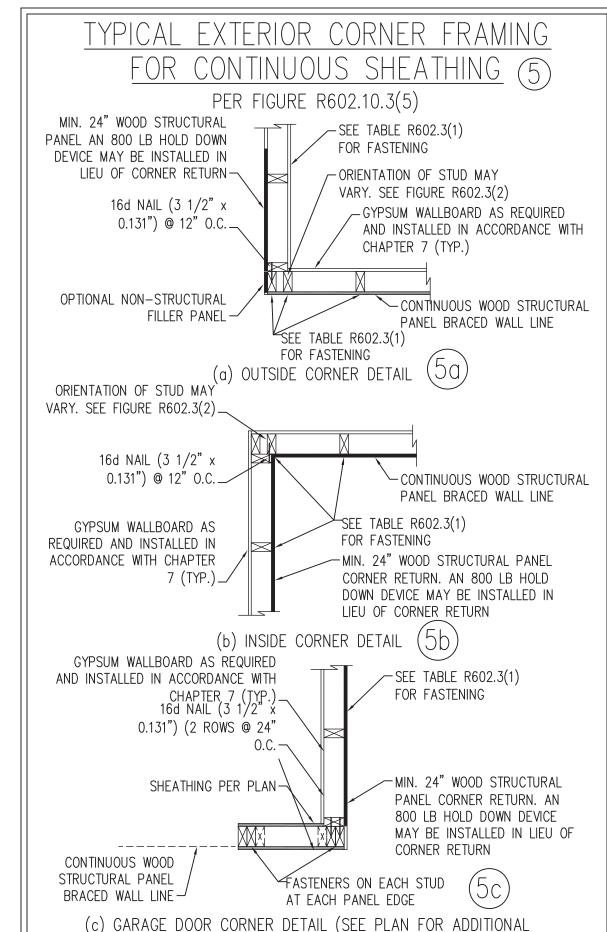




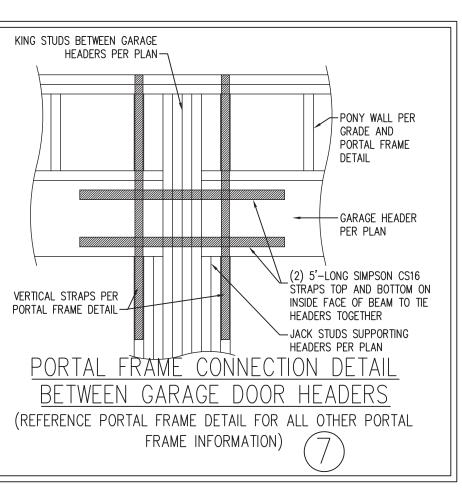


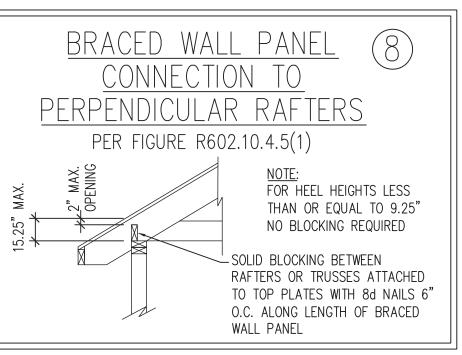
FOUNDATION OR MONOLITHIC SLAB

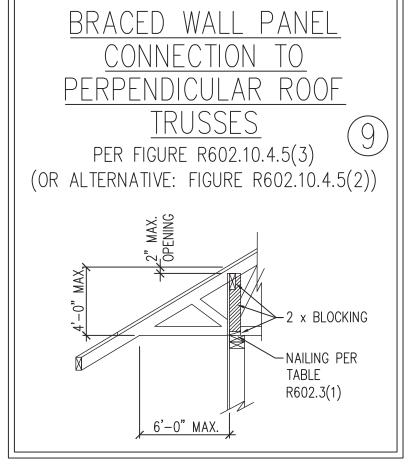
* APPLICABLE ONLY WHERE SPECIFIED ON PLAN *

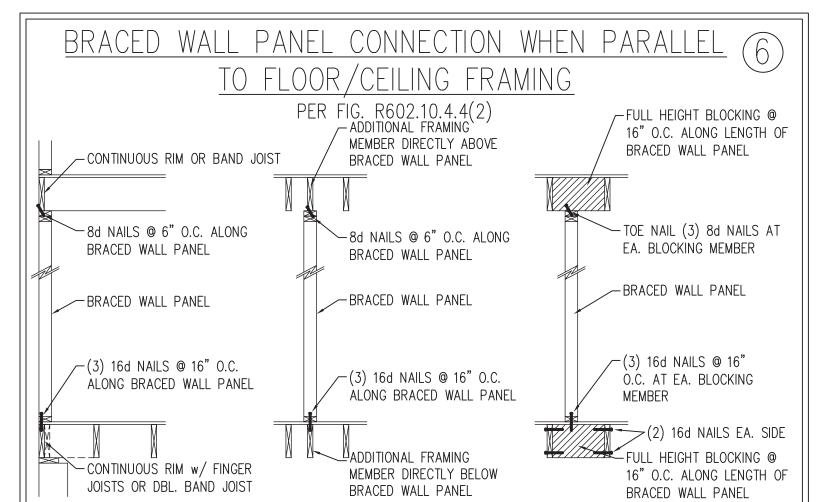


STRUCTURAL INFORMATION OR ALTERNATE CONFIGURATIONS)







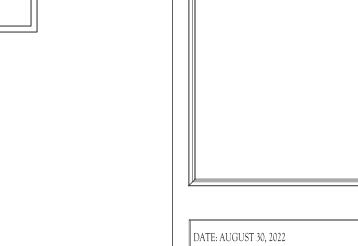


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DATE: AUGUST 30, 2022

SCALE: 1/4" = 1'-0"

DRAWN BY: JST

ENGINEERED BY: JST

BRACED WALL NOTES AND DETAILS AND PF DETAIL



EAST SIX FORKS ROAD, SUITE 180 RALEIGH, NC 27609
PHONE: (919) 789-9919 FAX: (919) 789-9921
N.C. 11CFNSF NO. C.1733

BRACING NOTES AND DETAILS

S AR

DATE: AUGUST 30, 2022

DRAWN BY: JST

ENGINEERED BY: JST

STRUCTURAL NOTES

3/8/2024

GENERAL NOTES

- 1. ENGINEER'S SEAL APPLIES ONLY TO STRUCTURAL COMPONENTS INCLUDING ROOF RAFTERS, HIPS, VALLEYS, RIDGES, FLOORS, WALLS, BEAMS, HEADERS, COLUMNS, CANTILEVERS, OFFSET LOAD BEARING WALLS, PIERS, GIRDER SYSTEM AND FOOTING. ENGINEER'S SEAL DOES NOT CERTIFY DIMENSIONAL ACCURACY OF ARCHITECTURAL LAYOUT INCLUDING ROOF. ENGINEER'S SEAL DOES NOT APPLY TO I-JOIST OR FLOOR/ROOF TRUSS LAYOUT DESIGN AND ACCURACY.
- 2. ALL CONSTRUCTION SHALL CONFORM TO THE LATEST REQUIREMENTS OF THE NORTH CAROLINA RESIDENTIAL CODE (NCRC), 2018 EDITION, PLUS ALL LOCAL CODES AND REGULATIONS. THE STRUCTURAL ENGINEER IS NOT RESPONSIBLE FOR, AND WILL NOT HAVE CONTROL OF, CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES, OR SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE CONSTRUCTION WORK. NOR WILL THE ENGINEER BE RESPONSIBLE FOR THE CONTRACTORS FAILURE TO CARRY OUT THE CONSTRUCTION WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
- 3. STRUCTURAL DESIGN BASED ON THE PROVISIONS OF THE NCRC, 2018 EDITION (R301.4 R301.7)

DESIGN CRITERIA:	LIVE LOAD (PSF)	DEAD LOAD (PSF)	DEFLECTION (IN)	
ATTIC WITH LIMITED STORAGE	20	10	L/240 (L/360 w/ BRITTLE FINISHES)	
ATTIC WITHOUT STORAGE	10	10	L/360	
DECKS	40	10	L/360	
EXTERIOR BALCONIES	40	10	L/360	
FIRE ESCAPES	40	10	L/360	
HANDRAILS/GUARDRAILS	200	10	L/360	
PASSENGER VEHICLE GARAGE	50	10	L/360	
ROOMS OTHER THAN SLEEPING ROOM	40	10	L/360	
SLEEPING ROOMS	30	10	L/360	
STAIRS	40	10	L/360	
WIND LOAD	(BASED ON TABLE R301.	(BASED ON TABLE R301.2(4) WIND ZONE AND EXPOSURE)		
GROUND SNOW LOAD: Pg	20 (PSF)	,		

- I-JOIST SYSTEMS DESIGNED WITH 12 PSF DEAD LOAD AND DEFLECTION (IN) OF L/480 - FLOOR TRUSS SYSTEMS DESIGNED WITH 15 PSF DEAD LOAD
- 4. FOR 115 AND 120 MPH WIND ZONES, FOUNDATION ANCHORAGE IS TO COMPLY WITH SECTION R403.1.6 OF THE NCRC, 2018 EDITION. FOR 130 MPH, 140 MPH, AND 150 MPH WIND ZONES, FOUNDATION ANCHORAGE IS TO COMPLY WITH SECTION 4504 OF THE NCRC, 2018 EDITION.
- 5. ENERGY EFFICIENCY COMPLIANCE AND INSULATION VALUES OF THE BUILDING TO BE IN ACCORDANCE WITH CHAPTER 11 OF THE NCRC, 2018 EDITION.

FOOTING AND FOUNDATION NOTES

- 1. FOUNDATION DESIGN BASED ON A MINIMUM ALLOWABLE BEARING CAPACITY OF 2000 PSF. CONTACT GEOTECHNICAL ENGINEER IF BEARING CAPACITY IS NOT ACHIEVED.
- 2. FOR ALL CONCRETE SLABS AND FOOTINGS, THE AREA WITHIN THE PERIMETER OF THE BUILDING ENVELOPE SHALL HAVE ALL VEGETATION, TOP SOIL AND FOREIGN MATERIAL REMOVED. FILL MATERIAL SHALL BE FREE OF VEGETATION AND FOREIGN MATERIAL. THE FILL SHALL BE COMPACTED TO ASSURE UNIFORM SUPPORT OF THE SLAB, AND EXCEPT WHERE APPROVED, THE FILL DEPTHS SHALL NOT EXCEED 24" FOR CLEAN SAND OR GRAVEL. A 4" THICK BASED COURSE CONSISTING OF CLEAN GRADED SAND OR GRAVEL SHALL BE PLACED. A BASE COURSE IS NOT REQUIRED WHERE A CONCRETE SLAB IS INSTALLED ON WELL-DRAINED OR SAND-GRAVEL MIXTURE SOILS CLASSIFIED AS GROUP 1, ACCORDING TO THE UNITED SOIL CLASSIFICATION SYSTEM IN ACCORDANCE WITH TABLE R405.1 OF THE NCRC, 2018 EDITION.
- 3. PROPERLY DEWATER EXCAVATION PRIOR TO POURING CONCRETE WHEN BOTTOM OF CONCRETE SLAB IS AT OR BELOW WATER TABLE. IF APPLICABLE, 3/4" - 1" DEEP CONTROL JOINTS ARE TO BE SAWED WITHIN 4 TO 12 HOURS OF CONCRETE FINISHING AND WALL LOCATIONS HAVE BEEN MARKED. ADJUST WHERE NECESSARY.
- 4. CONCRETE SHALL CONFORM TO SECTION R402.2 OF THE NCRC, 2018 EDITION. CONCRETE REINFORCING STEEL TO BE ASTM A615 GRADE 60. WELDED WIRE FABRIC TO BE ASTM A185. MAINTAIN A MINIMUM CONCRETE COVER AROUND REINFORCING STEFL OF 3" IN FOOTINGS AND 1 1/2" IN SLABS. FOR POURED CONCRETE WALLS, CONCRETE COVER FOR REINFORCING STEEL MEASURED FROM THE INSIDE FACE OF THE WALL SHALL NOT BE LESS THAN 3/4". CONCRETE COVER FOR REINFORCING STEEL MEASURED FROM THE OUTSIDE FACE OF THE WALL SHALL NOT BE LESS THAN 1 1/2" FOR #5 BARS OR SMALLER, AND NOT LESS THAN 2" FOR #6 BARS OR LARGER.
- 5. MASONRY UNITS TO CONFORM TO ACE 530/ASCE 5/TMS 402. MORTAR SHALL CONFORM TO ASTM C270.
- 6. THE UNSUPPORTED HEIGHT OF MASONRY PIERS SHALL NOT EXCEED FOUR TIMES THEIR LEAST DIMENSION FOR UNFILLED HOLLOW CONCRETE MASONRY UNITS AND TEN TIMES THEIR LEAST DIMENSION FOR SOLID OR SOLID FILLED PIERS. PERS MAY BE FILLED SOLID WITH CONCRETE OR TYPE M OR S MORTAR. PIERS AND WALLS SHALL BE CAPPED WITH 8" OF SOLID MASONRY.
- 7. THE CENTER OF EACH OF THE PIERS SHALL BEAR IN THE MIDDLE THIRD OF ITS RESPECTIVE FOOTING. EACH GIRDER SHALL BEAR IN THE MIDDLE THIRD OF THE PIERS.
- 8. ALL CONCRETE AND MASONRY FOUNDATION WALLS ARE TO BE CONSTRUCTED IN ACCORDANCE WITH THE PROVISIONS OF SECTION R404 OF THE NCRC, 2018 EDITION OR IN ACCORDANCE WITH ACI 318, ACI 332, NCMA TR68-A OR ACE 530/ASCE 5/TMS 402. MASONRY FOUNDATION WALLS ARE TO BE REINFORCED PER TABLE R404.1.1(1), R404.1.1(2), R404.1.1(3), OR R404.1.1(4) OF THE NCRC, 2018 EDITION. CONCRETE FOUNDATION WALLS ARE TO BE REINFORCED PER TABLE R404.1.1(5) OF THE NCRC, 2018 EDITION. STEP CONCRETE FOUNDATION WALLS TO 2 x 6 FRAMED WALLS AT 16" O.C. WHERE GRADE PERMITS (UNO).

1. ALL FRAMING LUMBER SHALL BE #2 SPF MINIMUM (Fb = 875 PSI, Fv = 375 PSI, E = 1600000 PSI) UNLESS NOTED OTHERWISE (UNO). ALL TREATED LUMBER SHALL BE #2 SYP MINIMUM (Fb = 975 PSI, Fv = 175 PSI, E = 1600000 PSI) UNLESS NOTED OTHERWISE (UNO).

FRAMING NOTES

- 2. LAMINATED VENEER LUMBER (LVL) SHALL HAVE THE FOLLOWING MINIMUM PROPERTIES: Fb = 2600 PSI, Fv = 285 PSI, E = 1900000 PSI. LAMINATED STRAND LUMBER (LSL) SHALL HAVE THE FOLLOWING MINIMUM PROPERTIES: Fb = 2325 PSI, Fv = 310 PSI, E = 1550000 PSI. PARALLEL STRAND LUMBER (PSL) UP TO 7" DEPTH SHALL HAVE THE FOLLOWING MINIMUM PROPERTIES: Fc = 2500 PSI, E =1800000 PSI. PARALLEL STRAND LUMBER (PSL) MORE THAN 7" DEPTH SHALL HAVE THE FOLLOWING MINIMUM PROPERTIES: Fc = 2900 PSI, E = 2000000 PSI. INSTALL ALL CONNECTIONS PER MANUFACTURER'S SPECIFICATIONS.
- 3. STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING ASTM SPECIFICATIONS

Α.	W AND WT SHAPES:	ASTM A992
В.	CHANNELS AND ANGLES:	ASTM A36
C.	PLATES AND BARS:	ASTM A36
D.	HOLLOW STRUCTURAL SECTIONS:	ASTM A500 GRADE B
E.	STEEL PIPE:	ASTM A53, GRADE B, TYPE E OR

4. STEEL BEAMS SHALL BE SUPPORTED AT EACH END WITH A MINIMUM BEARING LENGTH OF 3 1/2" AND FULL FLANGE WIDTH (UNO). PROVIDE SOLID BEARING FROM BEAM SUPPORT TO FOUNDATION. BEAMS SHALL BE ATTACHED AT THE BOTTOM FLANGE TO EACH SUPPORT AS FOLLOWS (UNO):

A. WOOD FRAMING (2) 1/2" DIA. x 4" LONG LAG SCREWS (2) 1/2" DIA. x 4" WEDGE ANCHORS B. CONCRETE (2) 1/2" DIA. x 4" LONG SIMPSON TITEN HD ANCHORS C. MASONRY (FULLY GROUTED) (4) 3/4" DIA. A325 BOLTS OR 3/16" FILLET WELD D. STEEL PIPE COLUMN

LATERAL SUPPORT IS CONSIDERED ADEQUATE PROVIDING THE JOISTS ARE TOE NAILED TO THE 2x NAILER ON TOP OF THE STEEL BEAM, AND THE 2x NAILER IS SECURED TO THE TOP OF THE STEEL BEAM w/(2) ROWS OF SELF TAPPING SCREWS @ 16" O.C. OR (2) ROWS OF 1/2" DIAMETER BOLTS @ 16" O.C. IF 1/2" BOLTS ARE USED TO FASTEN THE NAILER, THE STEEL BEAM SHALL BE FABRICATED w/ (2) ROWS OF 9/16" DIAMETER HOLES @ 16" O.C.

- 5. SQUARES DENOTE POINT LOADS WHICH REQUIRE SOLID BLOCKING TO GIRDER OR FOUNDATION. SHADED SQUARES DENOTE POINT LOADS FROM ABOVE WHICH REQUIRE SOLID BLOCKING TO SUPPORTING MEMBER BELOW.
- 6. ALL LOAD BEARING HEADERS TO CONFORM TO TABLE R602.7(1) AND R602.7(2) OF THE NCRC, 2018 EDITION OR BE (2) 2 x 6 WITH (1) JACK AND (1) KING STUD EACH END (UNO), WHICHEVER IS GREATER ALL HEADERS TO BE SECURED TO EACH JACK STUD WITH (4) 8d NAILS. ALL BEAMS TO BE SUPPORTED WITH (2) STUDS AT EACH BEARING POINT (UNO). INSTALL KING STUDS PER SECTION R602.7.5 OF THE NORTH CAROLINA RESIDENTIAL CODE, 2018 EDITION.
- 7. ALL BEAMS, HEADERS, OR GIRDER TRUSSES PARALLEL TO WALL ARE TO BEAR FULLY ON (1) JACK OR (2) STUDS MINIMUM OR THE NUMBER OF JACKS OR STUDS NOTED. ALL BEAMS OR GIRDER TRUSSES PERPENDICULAR TO WALL AND SUPPORTED BY (3) STUDS OR LESS ARE TO HAVE 1 1/2" MINIMUM BEARING (UNO). ALL BEAMS OR GIRDER TRUSSES PERPENDICULAR TO WALL AND SUPPORTED BY MORE THAN (3) STUDS OR OTHER NOTED COLUMN ARE TO BEAR FULLY ON SUPPORT COLUMN FOR ENTIRE WALL DEPTH (UNO). BEAM ENDS THAT BUTT INTO ONE ANOTHER ARE TO EACH BEAR EQUAL LENGTHS (UNO).
- 8. FLITCH BEAMS SHALL BE BOLTED TOGETHER USING 1/2" DIAMETER BOLTS (ASTM A307) WITH WASHERS PLACED AT THREADED END OF BOLT. BOLTS SHALL BE SPACED AT 24" CENTERS (MAXIMUM), AND STAGGERED AT TOP AND BOTTOM OF BEAM (2" EDGE DISTANCE), WITH (2) BOLTS LOCATED AT 6" FROM EACH END (UNO).
- 9. ALL I-JOIST OR TRUSS LAYOUTS ARE TO BE IN COMPLIANCE WITH THE OVERALL DESIGN SPECIFIED ON THE PLANS. ALL DEVIATIONS ARE TO BE BROUGHT TO THE ATTENTION OF THE ENGINEER OF RECORD PRIOR TO INSTALLATION.
- 10. BRACED WALL PANELS SHALL BE CONSTRUCTED ACCORDING TO THE NORTH CAROLINA RESIDENTIAL CODE 2018 EDITION WALL BRACING CRITERIA. THE AMOUNT, LENGTH, AND LOCATION OF BRACING SHALL COMPLY WITH ALL APPLICABLE TABLES IN SECTION R602.10.
- 11. PROVIDE DOUBLE JOIST UNDER ALL WALLS PARALLEL TO FLOOR JOISTS. PROVIDE SUPPORT UNDER ALL WALLS PARALLEL TO FLOOR TRUSSES OR I-JOISTS PER MANUFACTURER'S SPECIFICATIONS. INSTALL BLOCKING BETWEEN JOISTS OR TRUSSES FOR POINT LOAD SUPPORT FOR ALL POINT LOADS ALONG OFFSET LOAD LINES.
- 12. FOR ALL HEADERS SUPPORTING BRICK VENEER THAT ARE LESS THAN 8'-0" IN LENGTH, REST A 6" x 4" x 5/16" STEEL ANGLE WITH 6" MINIMUM EMBEDMENT AT SIDES FOR BRICK SUPPORT (U.N.O). FOR ALL HEADERS 8'-0" AND GREATER IN LENGTH, BOLT A 6" x 4" x 5/16" STEEL ANGLE TO HEADER WITH 1/2" LAG SCREWS AT 12" O.C. STAGGERED FOR BRICK SUPPORT. FOR ALL BRICK SUPPORT AT ROOF LINES, BOLT A 6" x 4" x 5/16" STEEL ANGLE TO (2) 2 x 10 BLOCKING INSTALLED w/ (4) 12d NAILS EA. PLY BETWEEN WALL STUDS WITH (2) ROWS OF 1/2" LAG SCREWS AT 12" O.C. STAGGERED AND IN ACCORDANCE WITH SECTION R703.8.2.1 OF THE NCRC, 2018 EDITION.
- 13. FOR STICK FRAMED ROOFS: CIRCLES DENOTE (3) 2 x 4 POSTS FOR ROOF MEMBER SUPPORT. HIP SPLICES ARE TO BE SPACED A MINIMUM OF 8'-0". FASTEN MEMBERS WITH THREE ROWS OF 12d NAILS AT 16" O.C. FRAME DORMER WALLS ON TOP OF DOUBLE OR TRIPLE RAFTERS AS SHOWN (UNO).
- 14. FOR TRUSSED ROOFS: FRAME DORMER WALLS ON TOP OF 2 x 4 LADDER FRAMING AT 24" O.C. BETWEEN ADJACENT ROOF TRUSSES. STICK FRAME OVER-FRAMED ROOF SECTIONS WITH 2 x 8 RIDGES, 2 x 6 RAFTERS AT 16" O.C. AND FLAT 2 x 10 VALLEYS (UNO).
- USING ONE SIMPSON 16" SECTION OF SIMP FOR MASONRY OR CO

6 POSTS TO BE INSTALLED WITH 700 LB CAPACITY OPLIFT CONNECTORS TOP AND BOTTOM (UNO.) POSTS MAY BE SECURED	
H6 OR LTS12 UPLIFT CONNECTOR FASTENED TO THE BAND AT THE BOTTOM AND THE BEAM AT THE TOP OF EACH POST. ONE	
PSON CS16 COIL STRAPPING WITH (8) 8d HDG NAILS AT EACH END MAY BE USED IN LIEU OF EACH TWIST STRAP IF DESIRED.	
ONCRETE FOUNDATION USE SIMPSON POST BASE.	

15. ALL 4 x 4 AND 6 x 6 POSTS TO BE INSTALLED WITH 700 LB CAPACITY UPLIET CONNECTORS TOP AND BOTTOM (LING) POSTS MAY BE SECURED This sealed page is to be used in conjunction with a full plan set engineered by J.S. Thompson Engineering, Inc. only. Use of this individual sealed page within architectural pages or shop drawings by others is a punishable offense under N.C. Statute § 89C-23