HEATED AREAS: MAIN FLOOR FIRST FLOOR

TOTAL HEATED

± 754.58 SQ FT ± 1151.67 SQ FT ± 1906.25 SQ FT

UNHEATED AREAS: FRONT PORCH

± 78.63 SQ FT ± 100.00 SQ FT ± 397.09 SQ FT REAR PORCH GARAGE

± 2481.97 SQ FT

SHEET INDEX

COVER SHEET

PLUMBING FIXTURE LOCATIONS

FLOOR PLANS

MAIN DIMENSIONED FLOOR PLANS

ALL EXTERNAL ELEVATIONS - ELEVATION A

ALL EXTERNAL ELEVATIONS - ELEVATION B CONSTRUCTION BUILDING SECTIONS

WINDOW & DOOR SCHEDULES

FRAMED KITCHEN ISLAND DESIGN OPTIONS

FIREPLACE SELECTION OPTIONS

EXTERNAL GARAGE TRELLIS, CORBELS, BRACKETS

ELECTRICAL MAIN & UPPER FLOOR PLANS

ELECTRICAL / TRUSS MAIN FLOOR OVERLAY - TO FOLLOW ELECTRICAL / TRUSS UPPER FLOOR OVERLAY - TO FOLLOW

House Plan	Development	Lot #	Address	Garage Side	Total HSF	Total Under Roof
Lyon A	Oakmont	371	24 Tackett Court	Left	1906.25	2481.97

OPTIONS

EXTERIOR:

Х	Elevation STD or A		
,	Elevation B		
	Elevation C		
	Cement Siding		
X	Vinyl Siding		
	Lap siding only		
X	Board and Batten		
Х	Trellis		
Х	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		
	Extended Porch		
	Side Lite		
	Stone Skirt		
X	Stem		
	Crawl		

INTERIOR:

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

ELECTRICAL:

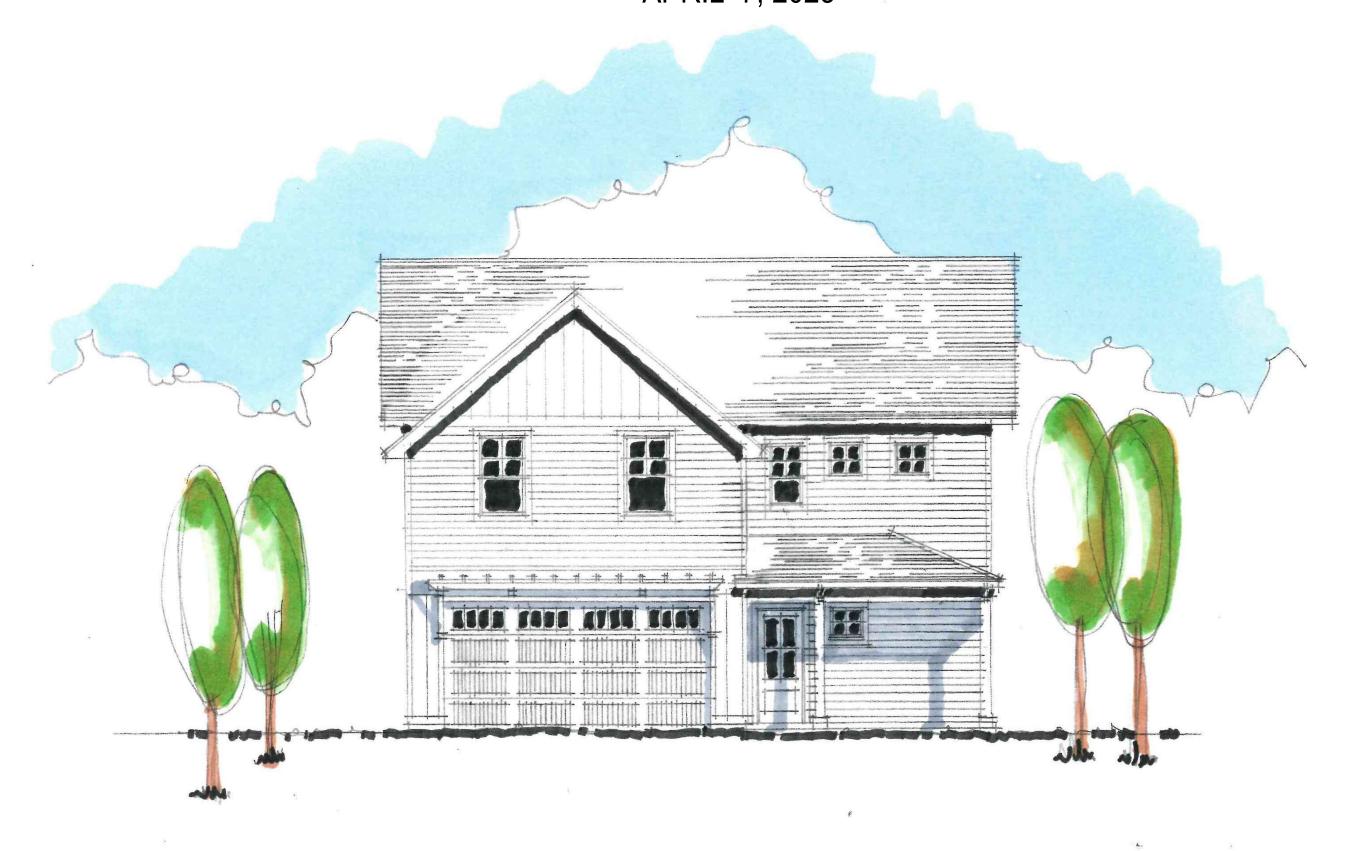
Under Cab Lights
Second Vanity - Upstairs bathroom

LYON Model

Garage Left - Elevations A & B

STANDARD WITH OPTIONS

APRIL 7, 2023





FRONT ELEVATION OPTIONS

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LYON Model

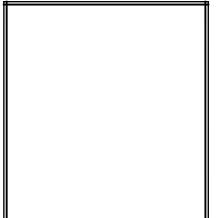
Garage Left - Elevations A & B

STANDARD WITH OPTIONS

APRIL 7, 2023

BUILDING AREAS: ± 754.58 SQ FT ± 1151.67 SQ FT ± 1906.25 SQ FT UNHEATED AREAS: ± 78.63 SQ FT ± 100.00 SQ FT ± 397.09 SQ FT FRONT PORCH REAR PORCH GARAGE

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SHEET

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FRONT ELEVATION OPTIONS

SHEET INDEX

40	COVER SHEET
21	PLUMBING FIXTURE LOCATIONS

FLOOR PLANS

MAIN DIMENSIONED FLOOR PLANS

ALL EXTERNAL ELEVATIONS - ELEVATION A ALL EXTERNAL ELEVATIONS - ELEVATION B

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J.S.THOMPSON 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

nt and Construction

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ASCOTT 2

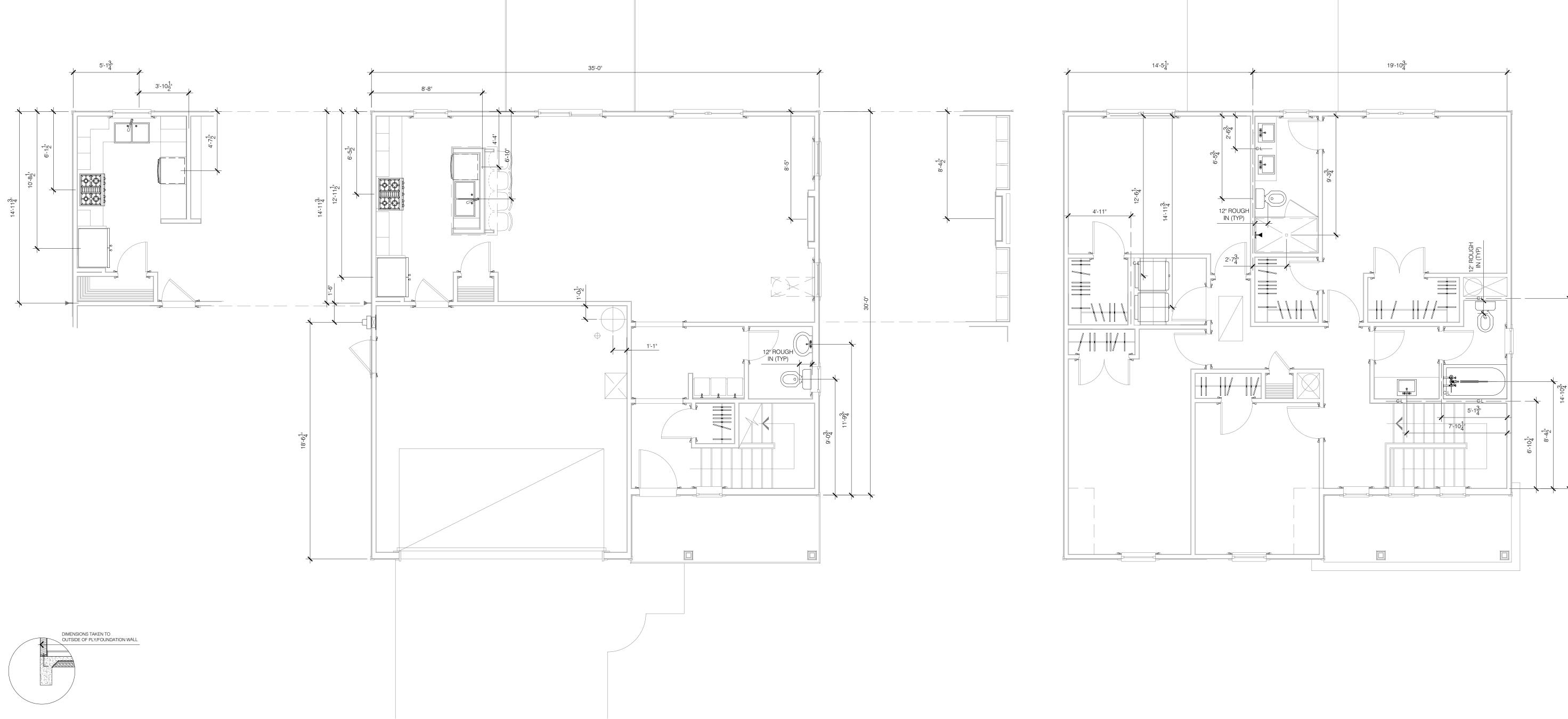
Land Development and Constru
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JMBING FIXTURE LO

KAWN BY:
NGINEER:
HECKED BY:
NS
.C. BY:
CALE: 1/4" = 1'-0"
HEET NUMBER#:

P1



UPPER FLOOR

MAIN FLOOR

PLUMBING FIXTURE LOCATIONS PLANS - WITH OPTIONS

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

NOTE:
AC RETURN VENTS SHALL NOT BE PLACED WITHIN 10'
OF AN OPEN COMBUSTION CHAMBER, A DRAFT HOOD OF
ANOTHER APPLIANCE OR WITHIN 10' OF COOKING APPLIANCES.
CODE M.1602.2 / 601.5

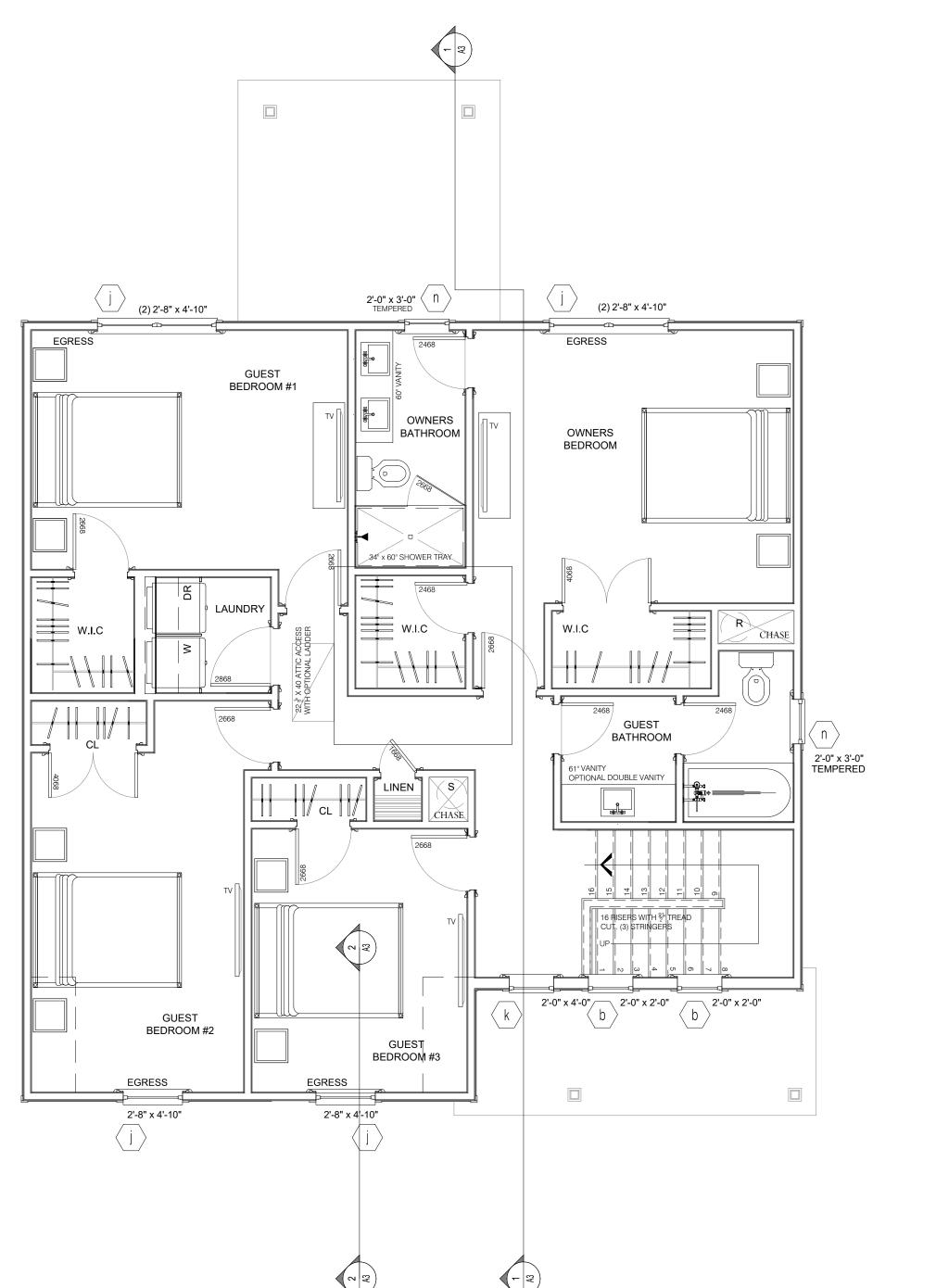
REVISIONS:
REV A: 06.12.2023. BALLOON SIDE WALL TO STAI
REV B: 06.22.2023. AC CHASE LOCATIONS REVISE
REV C: 09.11.2023. AC CHASES UPDATED TO
REV D: 11.27.2023. BI-SWING DOORS UPDA
REV E: 01.16.24 TUBS AND SHOWER FRAMII
W&DR WALL TO 6" & FRAMED ISLAND ADDE

J.s.Thompson

ENGINEERING, INC

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FAX: (919) 789-9921 N.C. LICENSE NO.: C-1733

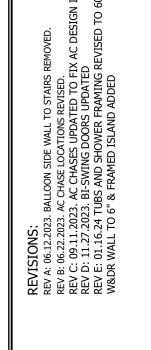


UPPER FLOOR PLAN - WITH OPTIONS SCALE: 1/4" = 1'-0"

COVERED PORCH (2) 2'-8" x 5'-0" f 2'-8" x 5'-0" OPTIONAL BUILT-IN CABINETS KITCHEN 30" RANGE / MICROWAVE OVER 2'-8" x 5'-0" OPTIONAL WINDOW RANGE /
MICROWAVE
OVER KITCHEN LINEAR ELECTRIC LIVING FLAME FIRE LINEAR ELECTRIC LIVING FLAME FIRE 36" REF DINING AREA LIVING ROOM 36" REF CHASE ABOVE 2'-8" x 5'-0" OPTIONAL WINDOW OPTIONAL BUILT-IN
CABINETS OPTIONAL KITCHEN DESIGN OPTIONAL BUILT-IN CABINETS OPTIONAL DOOR MUD ROOM DROP OFF 2'-0" x 3'-0" 2

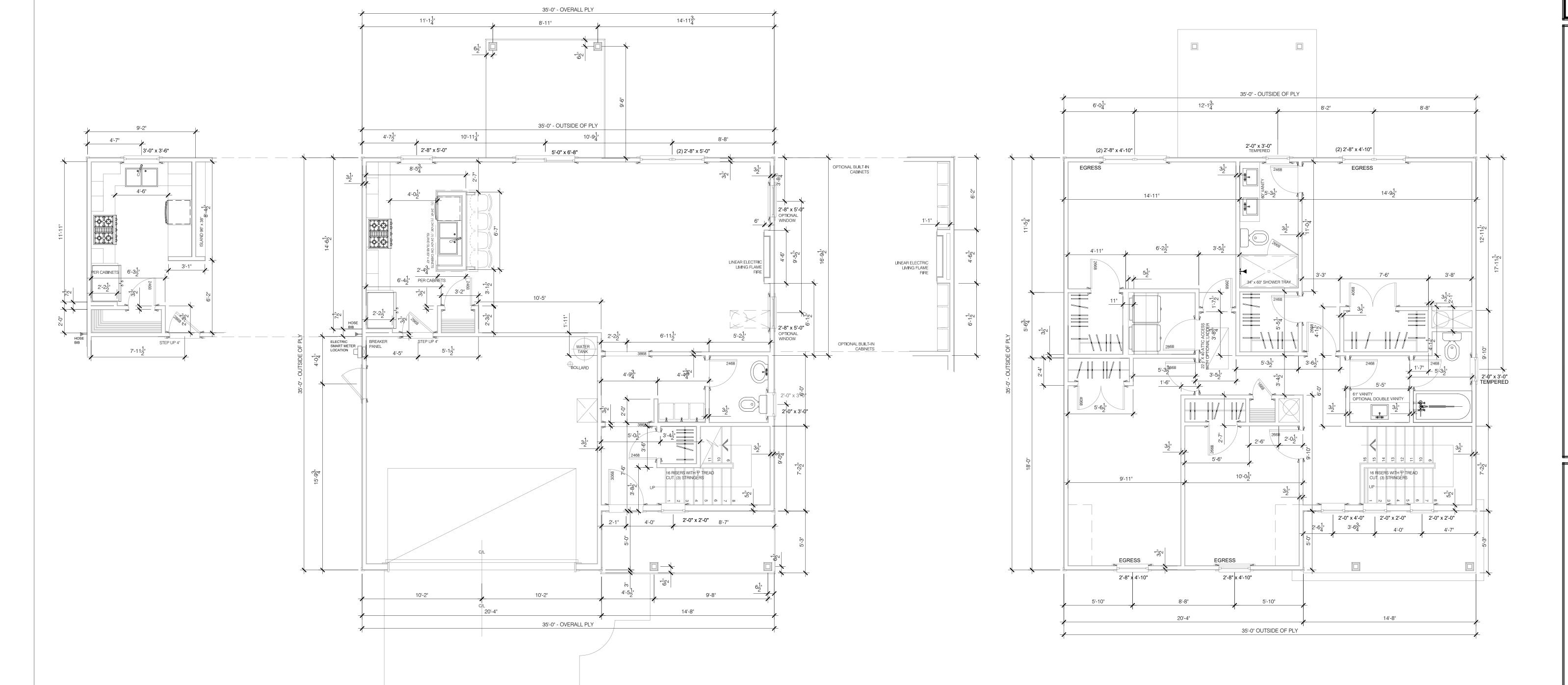
MAIN FLOOR PLAN - WITH OPTIONS SCALE: 1/4" = 1'-0"

LYON



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

LYON

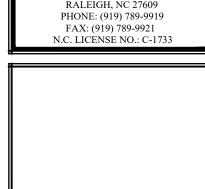


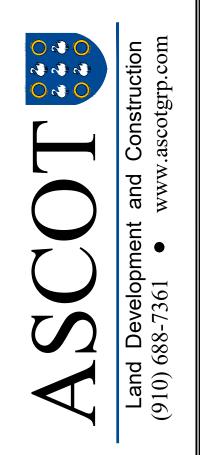
UPPER FLOOR PLAN - WITH OPTIONS

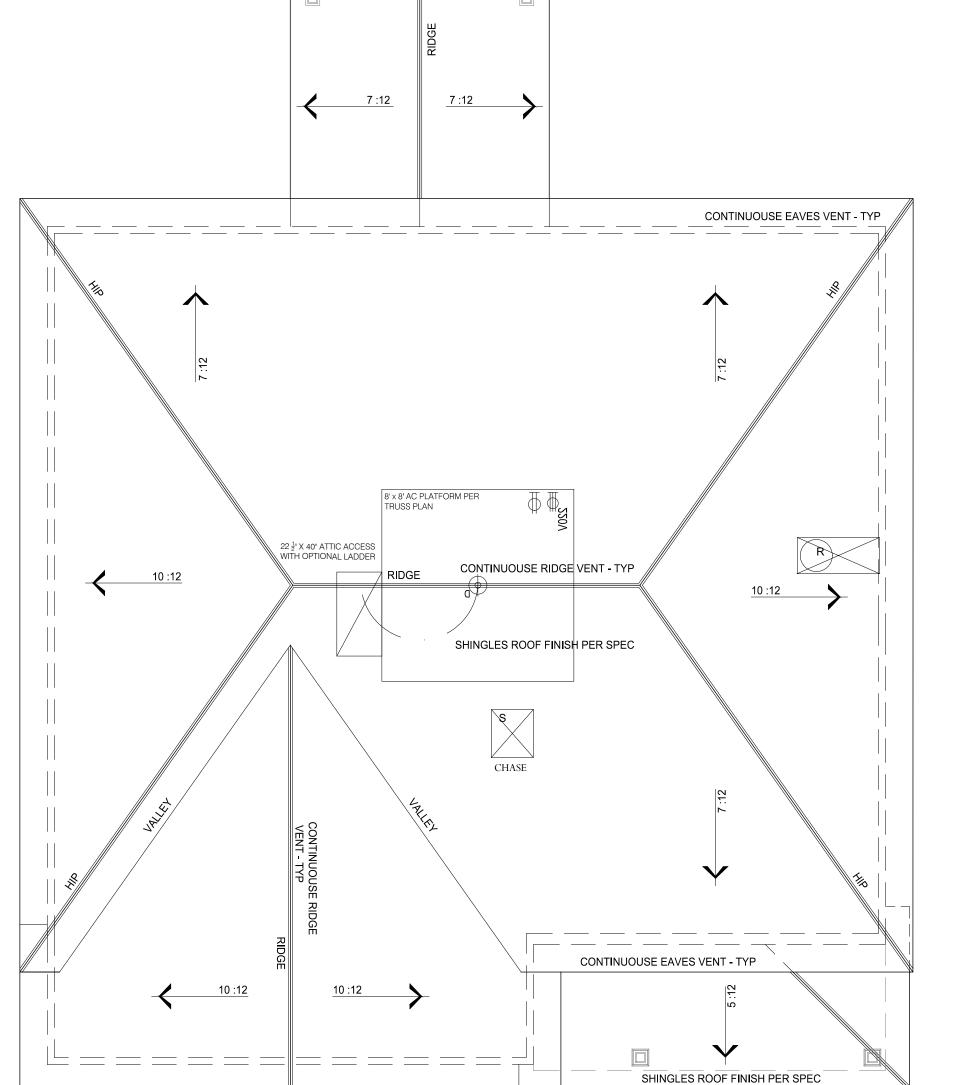
SCALE: 1/4" = 1'-0"

MAIN FLOOR PLAN - WITH OPTIONS

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







CONTINUOUSE EAVES VENT - TYP

10.12

CONTINUOUSE ROSE VENT - TYP

SHINGLES ROOF FINSH PER SPEC

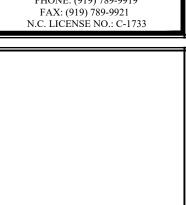
7 :12

ELEVATION A ROOF PLAN - PER TRUSS DESIGN
SCALE: 1/4" = 1'-0"

ELEVATION B ROOF PLAN - PER TRUSS DESIGN SCALE: 1/4" = 1'-0"

LYON

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





THE LYON

ENGINEER: CHECKED BY: NS Q.C. BY: NS SCALE: AS SHOWN SHEET NUMBER#:

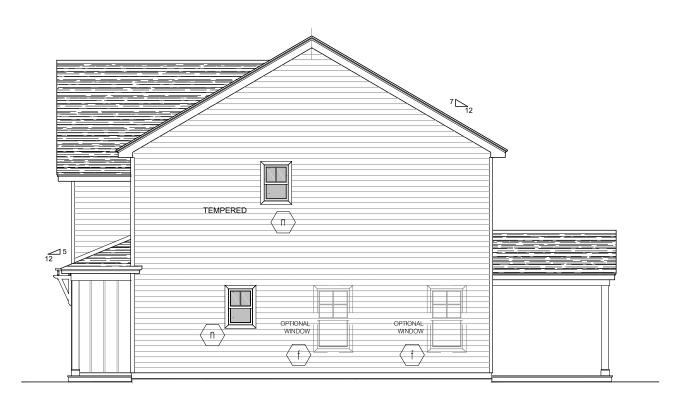
TION LEFT SIDE ELEVATION SCALE: 1/8" = 1'-0"



FRONT ELEVATION

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



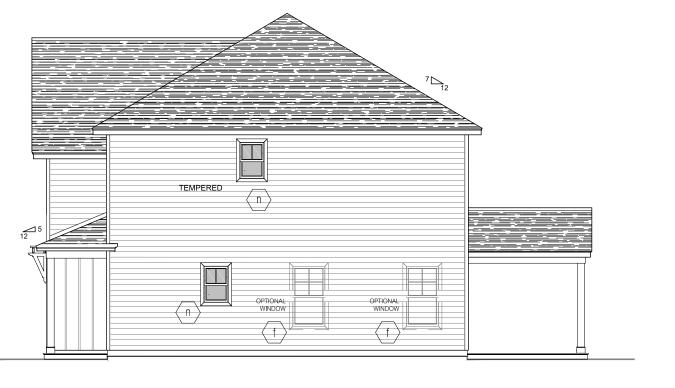


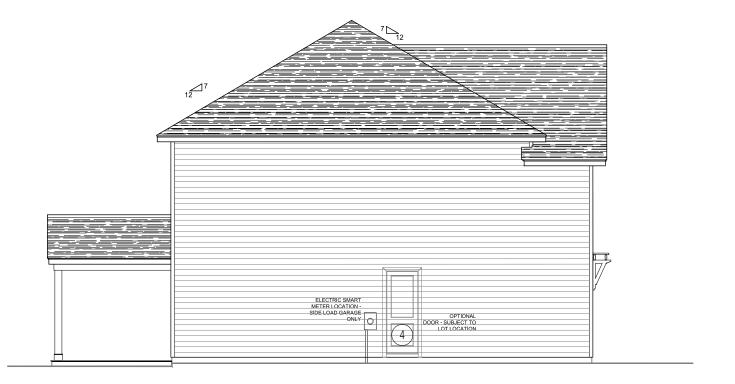
REAR ELEVATION

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

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

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





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



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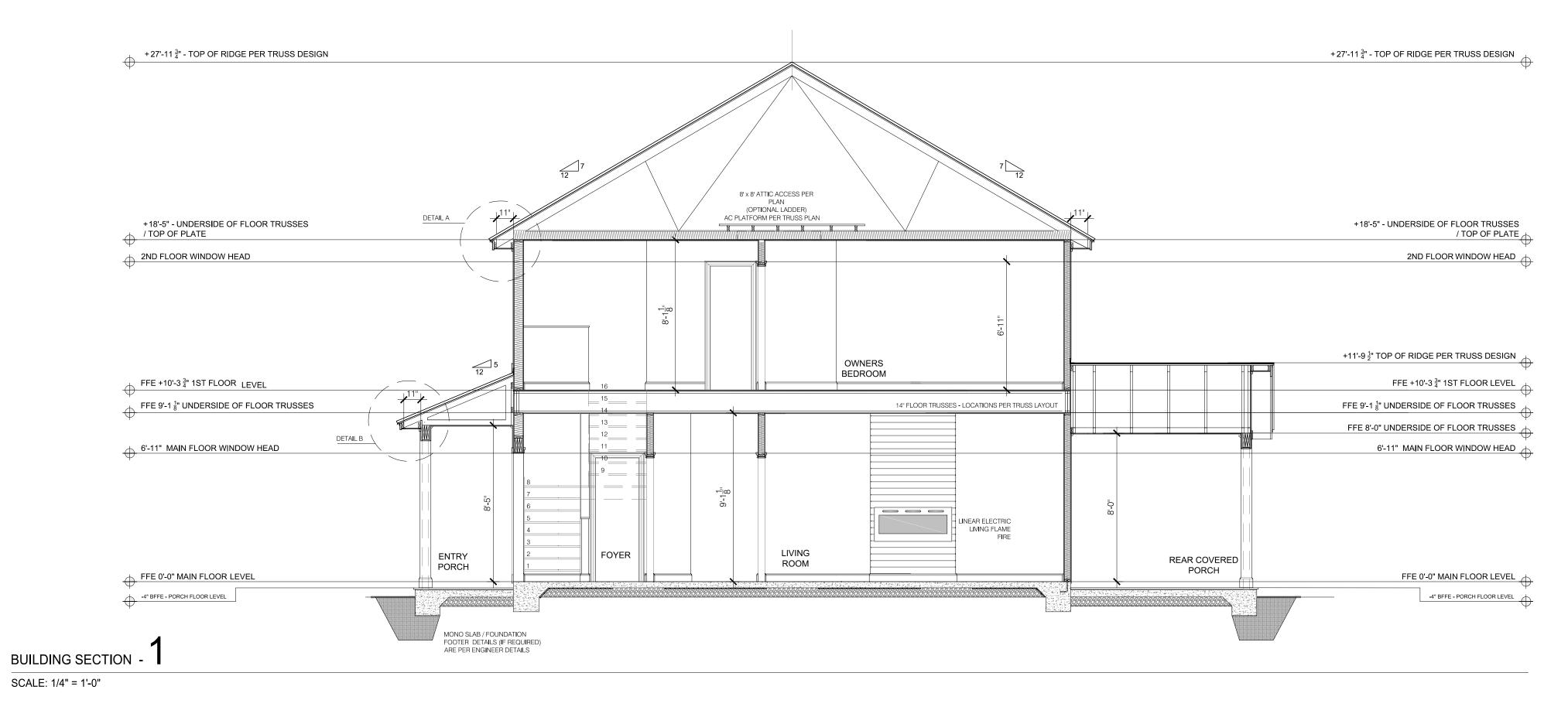
FAX: (919) 789-9921

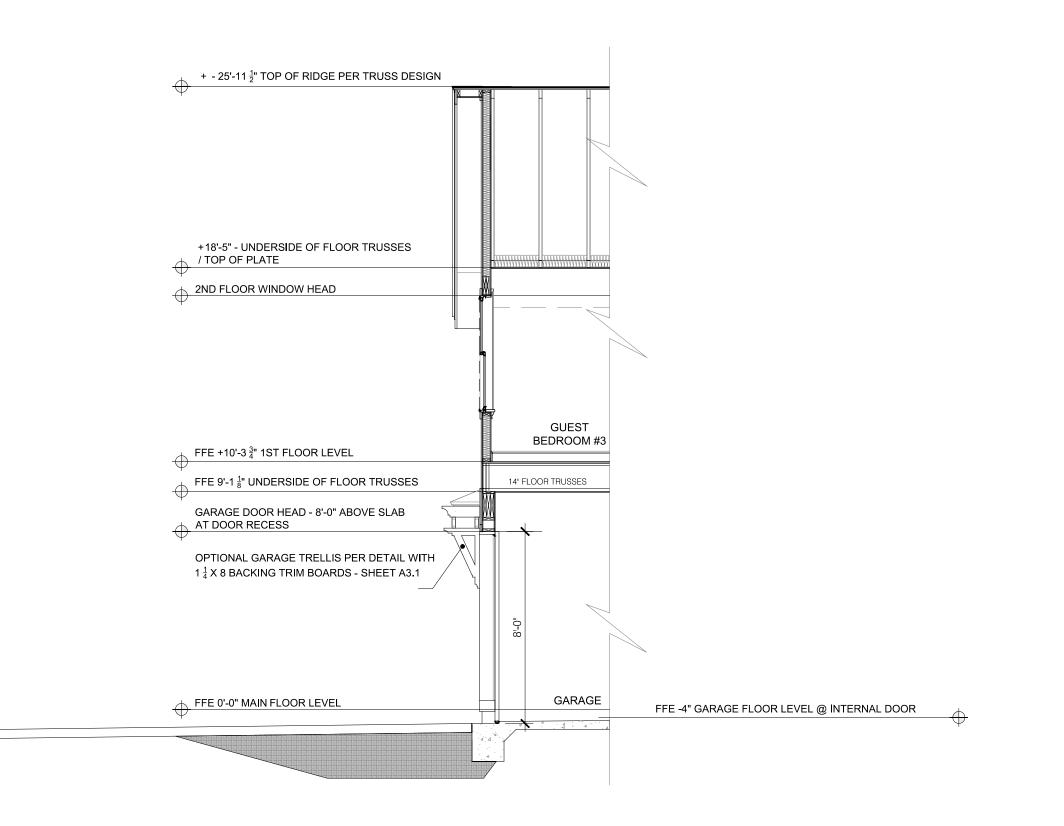
N.C. LICENSE NO.: C-1733

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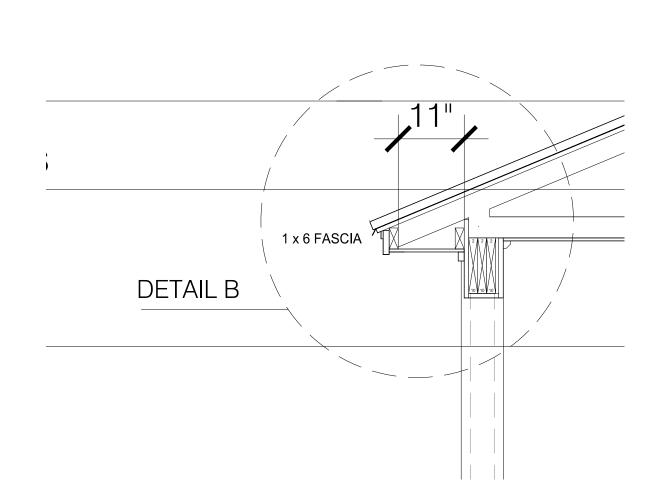
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DETAIL A

DETAIL

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

1 x 6 FASCIA

 $\mathsf{DETAIL}\, B$ SCALE: 3/4" = 1'-0" BUILDING SECTION - 3

+11'-9 ½" TOP OF RIDGE PER TRUSS DESIGN

FFE 8'-0" UNDERSIDE OF FLOOR TRUSSES

FFE 0'-0" MAIN FLOOR LEVEL

-4" BFFE - PORCH FLOOR LEVEL

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

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 GLAZING IS WITHIN 36" ABOVE THE PLANE OF THE STAIRCASE WALKING SURFACE, LANDINGS 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	TERNAL DOOR SCHEDULE	
MARK	SIZE (WxH)	LOCATION	
1	3'-0" X 6'-8"	FRONT ENTRANCE - TEMPERED GLASS	
2	16'-0" X 8'-0"	GARAGE DOOR WITH OPTIONAL GLAZING PANELS	
3	5'-0" X 6'-8"	SLIDING GLASS DOORS - DINING AREA - TEMPERED GLASS	
4	*2'-8" X 6'-8"	*OPTIONAL GARAGE DOOR	

SIZE	QUANTITY	DOOR TYPE	NOTES
*1'-6" X 6'-8"	1	SINGLE	LINEN CLOSET
4'-0" X 6'-8"	2	BY-SWING PAIR	OWNERS SUITE W.I.C, GUEST BEDROOM #2
2'-4" X 6'-8"	7	SINGLE	GUEST & OWNERS BATH, OWNERS W.I.C, CL, PWDR, PAN
2'-6" X 6'-8"	6	SINGLE	ALL BEDROOMS, CLOSETS
2'-6" X 6'-8"	1	SINGLE	GLASS SHOWER DOOR + GLAZED PANEL
2'-8" X 6'-8"	1	SINGLE	GARAGE FIRE DOOR - 20 MINUTE MIN
2'-8" X 6'-8"	1	SINGLE	LAUNDRY

	WINDOW SCHEDULE				
MARK	RO SIZE (WxH)	WINDOW TYPE	LOCATION	QUANTITIES	NOTES
а	(2)2'-8" X 5'-0"	SINGLE HUNG	LIVING ROOM	(1)PAIR	
b	2'-0" X 2'-0"		FOYER, STAIRCASE	3	
С	NOT USED				
d	NOT USED				
е	*3'-0" X 3'-6"		*KITCHEN OPTION	*1	*OPTIONAL KITCHEN WINDOW - REPLACES (1) f WINDOW TO KITCHEN
f	*2'-8" X 5'-0"	SINGLE HUNG	KITCHEN	1 + *(2) OPTIONS	*OPTIONAL WINDOWS TO LIVING ROOM
g	NOT USED				
h	NOT USED				
j	2'-8" X 4'-10"	SINGLE HUNG	ALL BEDROOMS	6 (2)PAIRS, (2) SINGLES	EGRESS
k	2'-0" X 4'-0"	SINGLE HUNG	STAIRCASE	1	
m	NOT USED				
n	2'-0" X 3'-0"	SINGLE HUNG	MASTER BATHROOM, GUEST BATHROOM, PWDR	3	TEMPERED GLASS

SCHEDULES

GENERAL NOTES:

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

2. ALL HARDWARE TO BE PER CLIENT/ASCOT CORPORATION SELECTIONS

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

4. ALL PROFILES TO BE APPROVED BY ASCOT CORPORATION

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 CORPORATIONS 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.

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

GENERAL NOTES

SCALE: NTS

SCALE: NTS

J.S. THOMPSON

ENGINEERING, INC

333 E. SIX FORKS RD., SUITE 180

RALEIGH, NC 27609 PHONE: (919) 789-9919

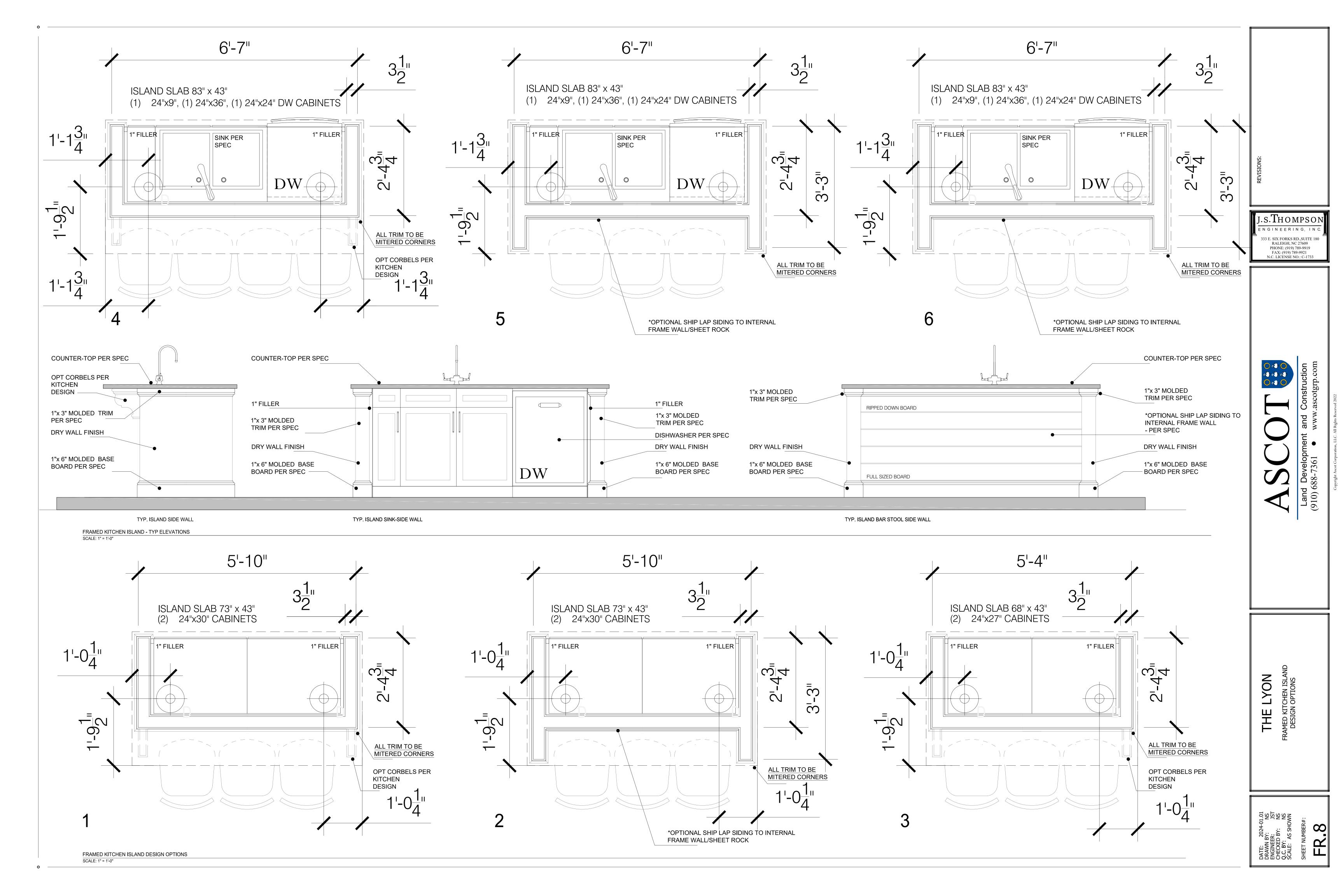
FAX: (919) 789-9921

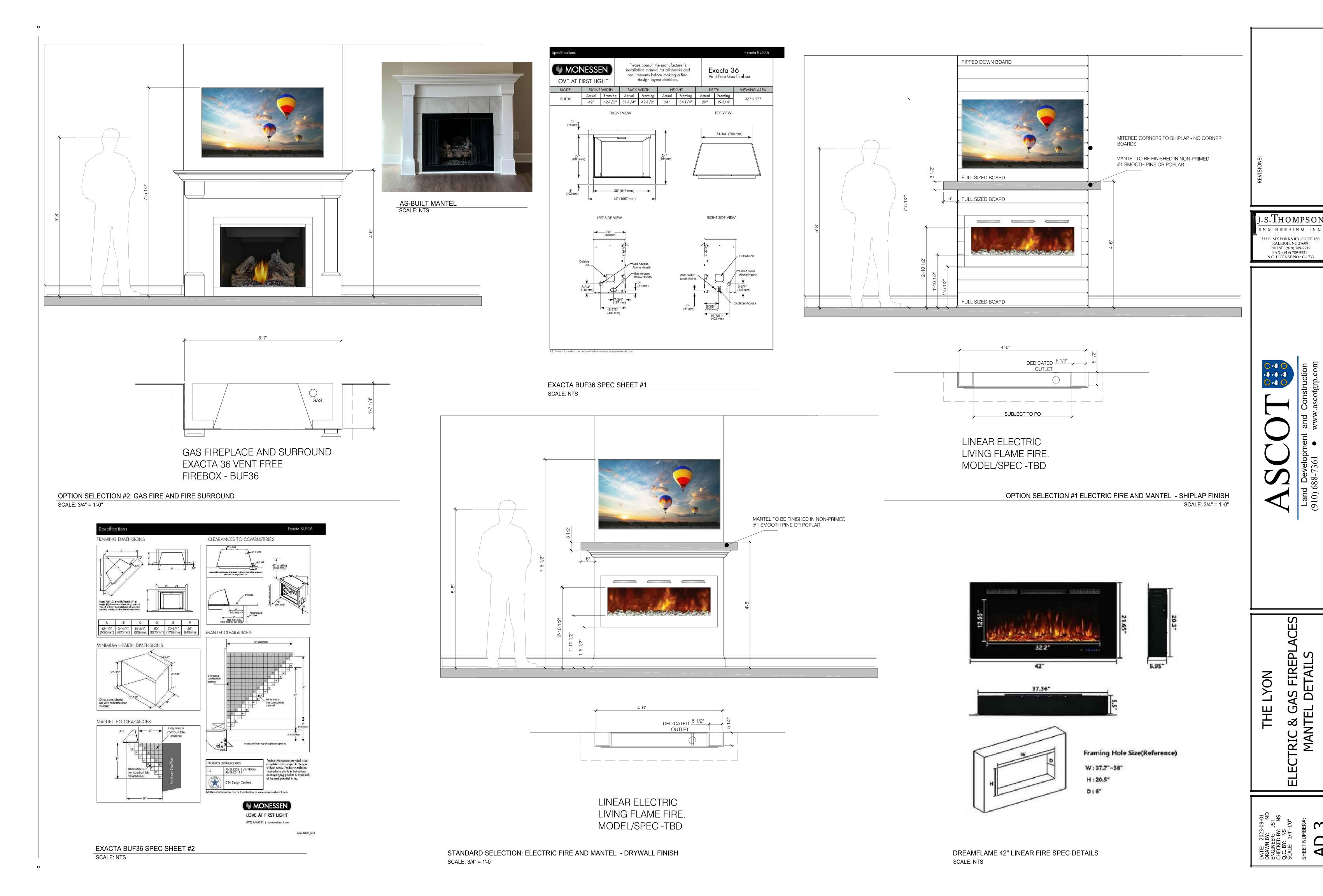
N.C. LICENSE NO.: C-1733

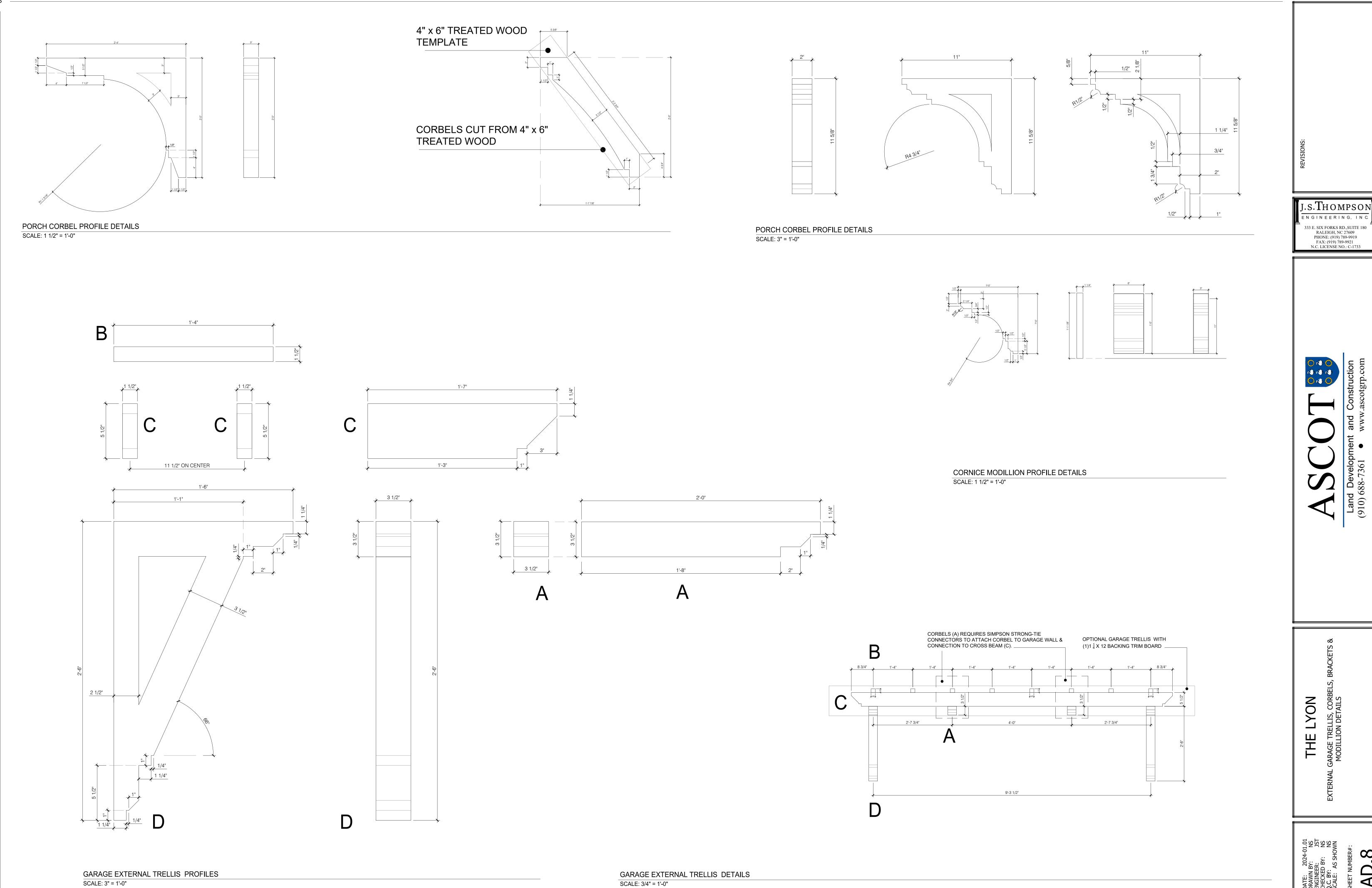
WINDOW & DOOR GLAZING PATTERNS, CODE NOTES

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





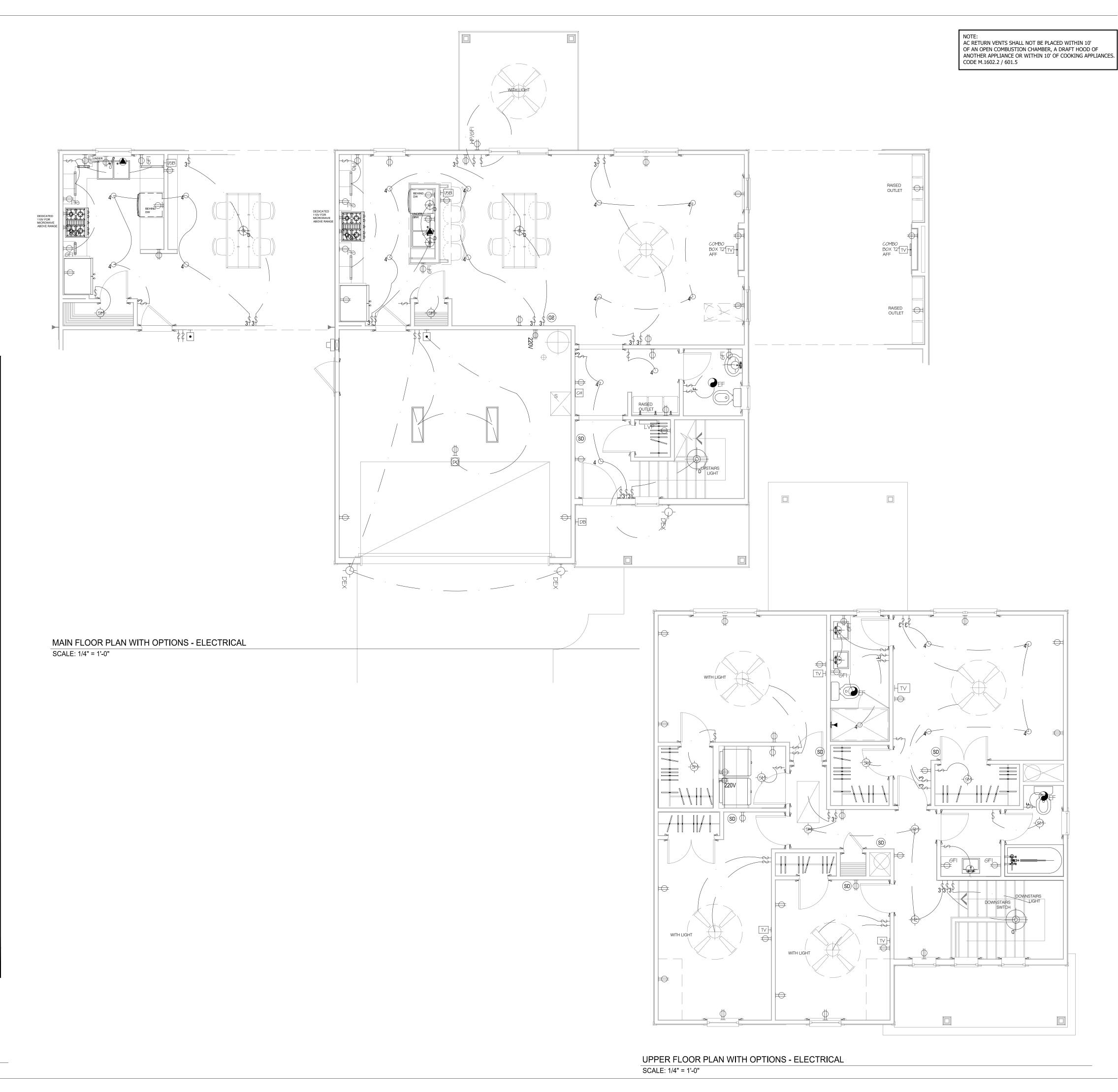




ELECTRICAL NOTES:

- PROVIDE AND INSTALL CERTIFIED SMOKE DETECTORS 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 <u>GROUND FAULT CIRCUIT-INTERRUPTERS</u> (GFI) AS REQUIRED BY NATIONAL ELECTRIC CODE (NEC) AND MEETING THE REQUIREMENTS OF ALL GOVERNING CODES.
 HVAC CONTRACTOR TO VERIFY THERMOSTAT LOCATIONS.
- 4. ALL ELECTRICAL AND MECHANICAL EQUIPMENT (I.E. FURNACES, A/C UNITS, ELECTRICAL PANELS, AND WATER HEATERS)
 ARE SUBJECT TO RELOCATION PER FIELD CONDITIONS.
- 5. PROJECT WALK-THRU WITH SUPERINTENDENT AND ELECTRICAL CONTRACTOR TO BE SCHEDULED PRIOR TO ELECTRICAL ROUGH-IN.
- 6. REFER TO CABINET DRAWINGS AND LIGHTING DETAILS FOR POWER STUB-OUT LOCATIONS FOR BUILT-IN AND CABINET LIGHTING.
- 7. ALL ELECTRICAL PLANS AND LOCATIONS AS SHOWN ARE TO BE LAID OUT PER LOCAL AND STATE BUILDING CODES AND ANY RELEVANT INSPECTIONS.
- 8. ALL LIGHTING LOCATIONS SHALL BE REVIEWED AND COORDINATED WITH APPROVED FLOOR AND ROOF TRUSS LAYOUTS PRIOR TO INSTALLATION IN THE FIELD.

	WIRING CIRCUIT		WHIP FOR LIGHTING
·	WIRING CIRCUIT		3" RECESSED INCANDESCENT CEILING LIGHT
LV ~	WIRING CIRCUIT LOW VOLTAGE		4" RECESSED INCANDESCENT CEILING LIGHT
	LIQUENIA CONTROL	. A2 O ₄	4" RECESSED LED CEILING CAN LIGHT
	LIGHTING CONTROL	·	4" VAPOR PROOF LED RECESSED CAN LIGHT
(WALL SWITCH SINGLE POLE	Ø VP2	
Ψ	WALL SWITCH SINGLE FOLL	RJB	JUNCTION BOX REINFORCED CEILING MOUNT
\$3	THREE-WAY SWITCH		CEILING JUNCTION BOX
\$ ₄	FOUR-WAY SWITCH	- -	SURFACE MOUNTED LED CEILING LIGHT
\$ _F	FAN SWITCH	<u></u>	PENDANT LIGHT
\$ _D	DIMMER SWITCH		CHANDELIER (REINFORCED CEILING MOUNT)
\$\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	THREE-WAY DIMMER SWITCH	<u> </u>	
D	DIMMER SWITCH ON SYSTEM	+	WALL MOUNTED INCANDESCENT LIGHT FIXTURE
\$	SINGLE POLE SWITCH ON SYSTEM	⊢ DEX	DECORATIVE EXTERIOR SCONCE
H•	PUSH BUTTON SWITCH (GARAGE DOOR)	LV _O -	AIMABLE RECESSED DOWN LIGHT LOW VOLTAGE
HMS	MOTORIZED SHADE (INTERIOR)	LV _®	LED RECESSED DOWN LIGHT - PHOTO CELL
HM) _{EX}	MOTORIZED SHUTTERS (EXTERIOR)	*	PUCK LIGHT
HDB	DOOR BELL		DOUBLE LAMP CEILING LIGHT (CLOSET)
СН	CHIMES	-	TRIPLE LAMP CEILING LIGHT (CLOSET)
	O. IIII. 2	•	JAMB LIGHT FIXTURE
\varTheta	DUPLEX OUTLET		TRACK LIGHT FIXTURE
₩	GROUND FAULT DUPLEX OUTLET ABOVE COUNTER		FLUORESCENT FIXTURE-SURFACE MOUNT
HGFI	GROUND FAULT INTERRUPTER DUPLEX OUTLET		
₩P/GFI	WEATHERPROOF GROUND FAULT DUPLEX OUTLET		CEILING FAN (Add light where indicated)
	HALF-SWITCHED DUPLEX OUTLET		
⊢	DEDICATED OUTLET	∇	SINGLE FLOOD LIGHT
₽ 220V	220 VOLT OUTLET	8	PHOTO CELL DOUBLE FLOOD LIGHT
	FLOOR OUTLET	***************************************	
	HALF SWITCHED FLOOR OUTLET		UC STRIP LIGHT
	TELEPHONE/DATA-FLOOR		STRIP LIGHT ABOVE CABINET
HØ	CLOCK BOX-WALL		TOE KICK STRIP LIGHT
COMBO BOX 72 TV	RECESSED TV COMBINATION BOX		UNDER CABINET LIGHT
AFF LTT	TV CONNECTION		PLUG MOLD
$oxed{ }$	TELEPHONE/DATA-WALL		COVE LIGHTING-LINEAR
HUSB	ELECTRICAL OUTLET / USB COMBO	IO MANTOLT	TRANSFORMER
HDTV	DTV SHOWERING SYSTEM	DRIVER 96W 24V	DRIVER
	KEYPAD-SYSTEM CONTROL		DEMARCATION BOX
T	THERMOSTAT	D	
KP	KEYPAD FOR ALARM	Ē	ELECTRIC METER
HD	HEAT DETECTOR		ELECTRIC PANEL
•	LIGHT & EXHAUST FAN		DISCONNECT SWITCH
P EF	EXHAUST FAN	A	CAS METED
L	LANDSCAPE LIGHTING (POWER/SWITCH LEG)	G	GAS METER
SD SD	CARBON MONOXIDE/SMOKE DETECTOR		WATER METER
	COMBINATION UNIT	<u>C</u>	GAS VALVE
<u>(S)</u>	SPEAKER (OPTIONAL) GARBAGE DISPOSAL	•	AIR SWITCH
		•	PIN LIGHT
	ELECTRIC DOOR OPERATOR (GARAGE)	LVP	LOW VOLTAGE PANEL



ELECTRICAL SYMBOLS LEGEND

SCALE: NTS

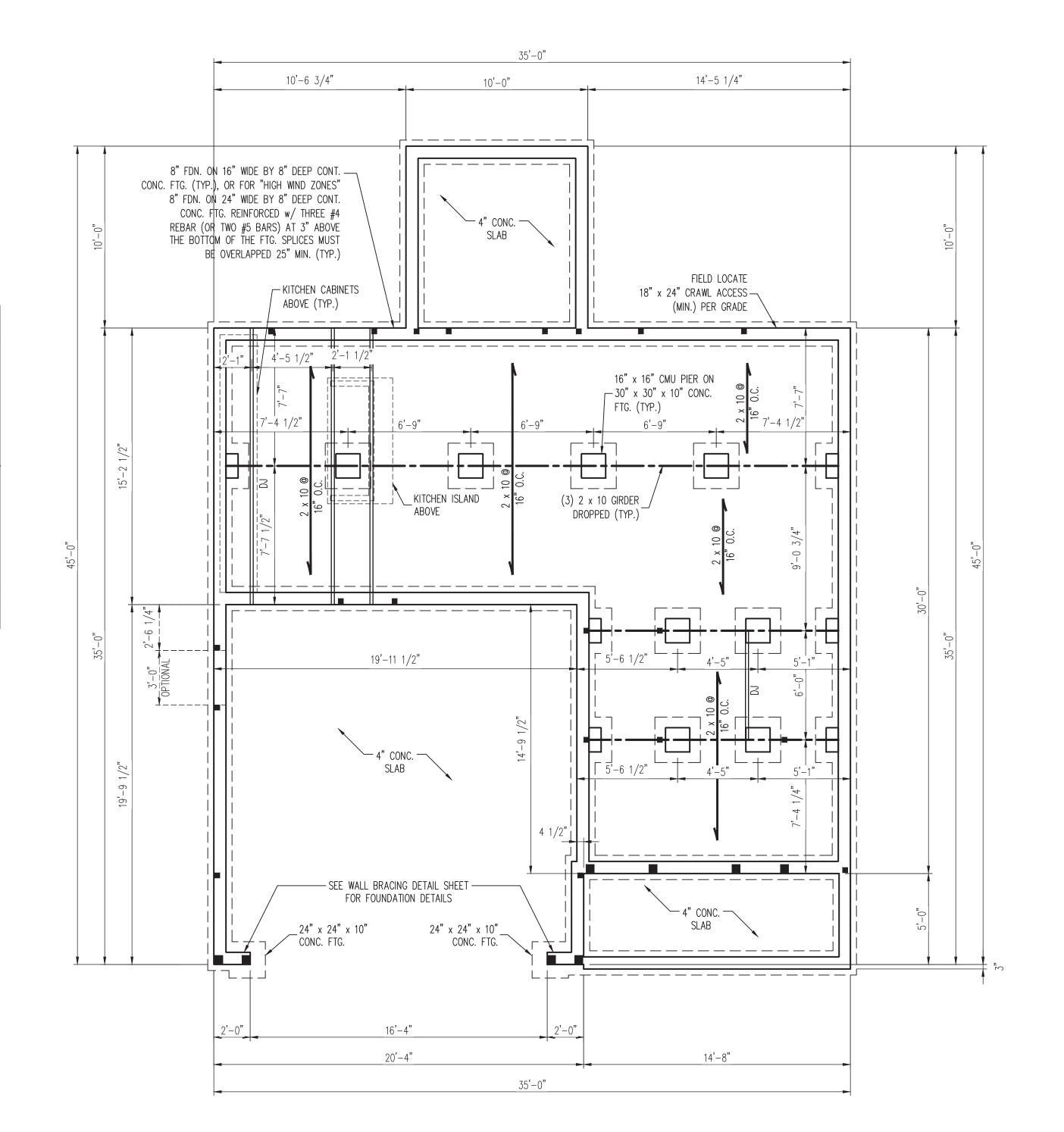
FEVISIONS:

REVA.: 04.17.2023. CAN LIGHT OF THE REVA.: 04.17.2023.

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ELECTRICAL - MAIN & LIPP

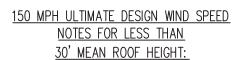
ENGINEER:
CHECKED BY:
D.C. BY:
SCALE: AS SHOWN
SHEET NUMBER#:



KITCHEN CABINETS

⊤ABOVE (TYP.)

OPTIONAL KITCHEN



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

- 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 WNDS) OF THE NORTH CAROLINA RESIDENTIAL CODE, 2018 EDITION.
 4. FOUNDATION ANCHORAGE TO COMPLY WITH SECTION 4504 OF THE NORTH CAROLINA RESIDENTIAL CODE, 2018 EDITION.
- 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
- -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
- 9. WALLS TO BE BRACED IN ACCORDANCE WITH
 SECTION R602.10 OF THE NORTH CAROLINA
 RESIDENTIAL CODE, 2018 EDITION AND AS NOTED
 ON PLANS.
- 10. ENERGY EFFICIENCY COMPLIANCE AND INSULATION VALUES OF THE BUILDING TO BE IN ACCORDANCE WITH CHAPTER 11 OF THE NCRC, 2018 EDITION.

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.
- STRUCTURAL DESIGN PER NORTH CAROLINA RESIDENTIAL CODE, 2018 EDITION.
 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 -2

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 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
 - STRUCTURAL NOTES:

ADDITIONAL STRUCTURAL INFORMATION.

- ALL FRAMING LUMBER TO BE #2 SPF (UNO). ALL TREATED LUMBER TO BE #2
- 2. PROVIDE DOUBLE OR TRIPLE JOIST UNDER ALL WALLS PARALLEL TO FLOOR JOISTS WHERE NOTED ON THE PLANS.
- 3. SQUARES DENOTE POINT LOADS WHICH REQUIRE SOLID BLOCKING TO GIRDER OR FOUNDATION.
- 4. SHADED PIERS TO BE FILLED SOLID.
 5. INSTALL LADDER WIRE @ 16" O.C. TO
- SECURE MULTIPLE WYTHE FOUNDATION
 WALLS TOGETHER.
 6 PEEER TO NOTES AND DETAIL SHEETS I
- 6. 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

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

DRAWN BY: NS

ENGINEERED BY: WFB

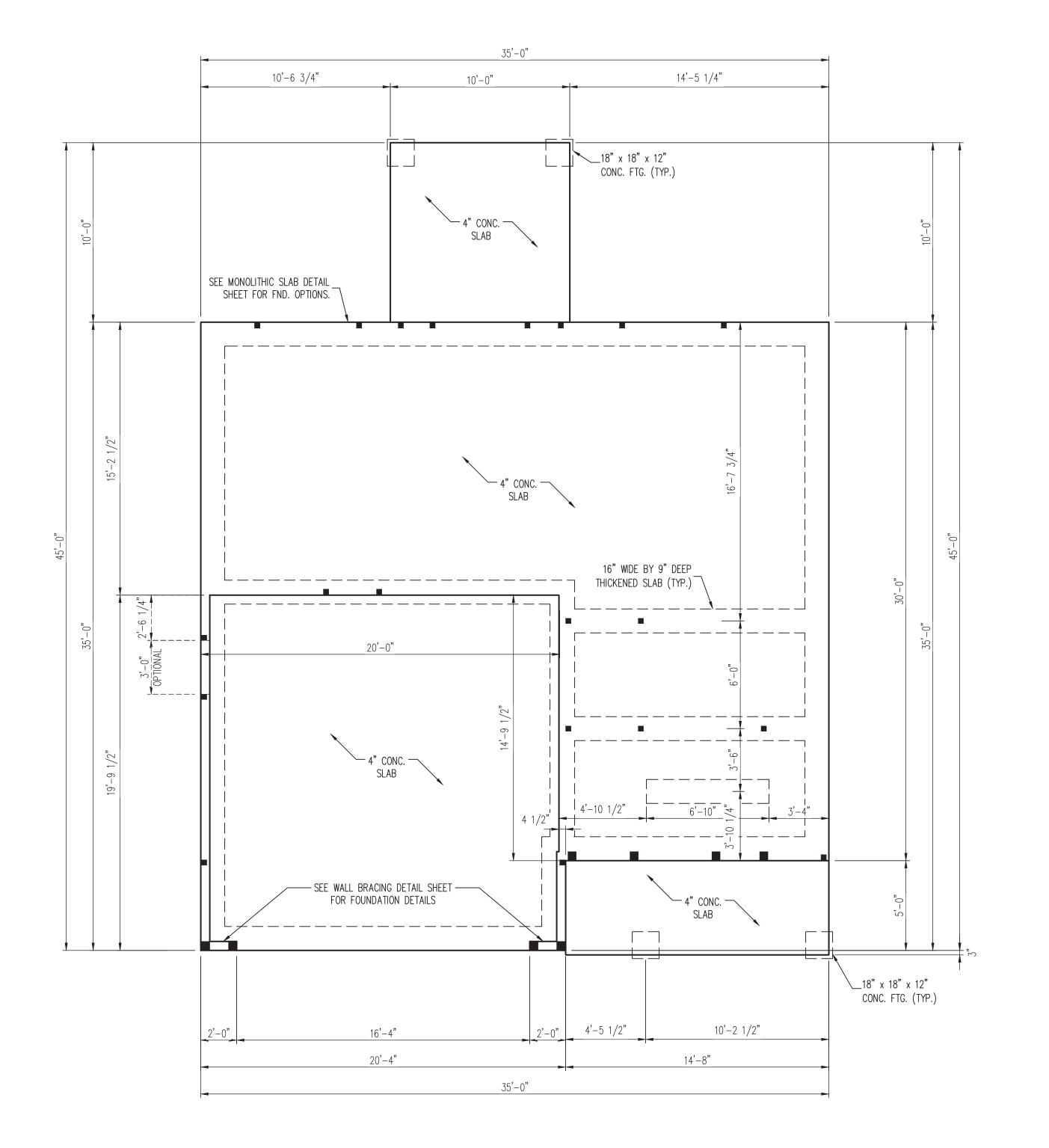
DATE: MARCH 18, 2024

S-1 CRAWL FOUNDATION PLAN



Soll ERRES OF AST SIX FORKS ROAD, SUITE 180 RALEIGH, NC 27609 PHONE: (919) 789-9919 FAX: (919) 789-9921

LYON ASCOT GROUP



150 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

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 RESIDENTIAL CODE, 2018 EDITION.
 MEAN ROOF HEIGHT IS LESS THAN 30 FEET.
 WALL CLADDING DESIGNED FOR +24.3 PSF AND

-32 PSF (+/- INDICATE POSITIVE / NEGATIVE PRESSURE (TYP).
ROOF CLADDING DESIGNED FOR +22.2 PSF AND -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 RESIDENTIAL CODE, 2018 EDITION AND AS NOTED ON PLANS.

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

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

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" INTO MASONRY OF CONCRETE. LOCATE BOLT WITHIN

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
PSF (+/- INDICATE POSITIVE / NEGATIVE
PRESSURE (TYP).
7. PROF. CLADDING DESIGNED FOR +14.2 PSF AND -18.

PSF AND -36 PSF FOR ROOF PITCHED 2.25/12 TO

8. INSTALL 7/16" OSB SHEATHING ON ALL EXTERIOR
WALLS OF ALL STORIES IN ACCORDANCE WITH
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 OTHERWIS

DRAWN BY: NS
ENGINEERED BY:

DATE: MARCH 18, 2024

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

engineered by: wfb

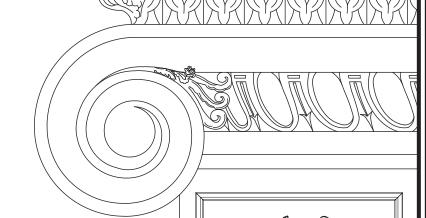
S-1 mono slab foundation plan

LYON ASCOT GROUP



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

AT LAGIT LIND OF	TILADENS IN EXTENION WA
HEADER SPAN (FEET)	MINIMUM NUMBER OF FUL HEIGHT STUDS (KINGS)
UP TO 3'	1
> 3' TO 6'	2
> 6' TO 9'	3
> 9' TO 12'	4
> 12' TO 15'	5



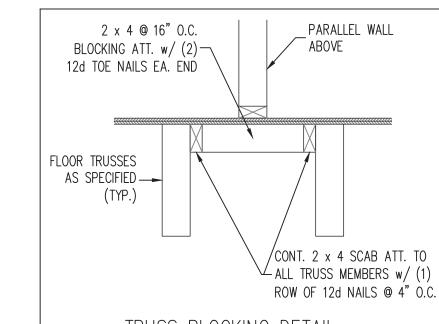
BRACED WALL DESIGN NOTES:

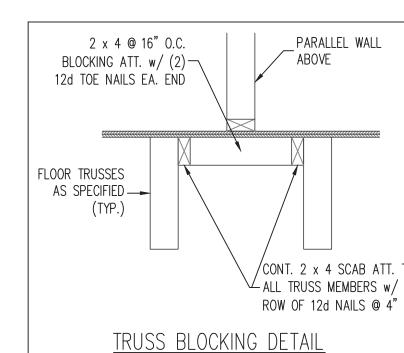
- BRACED WALL DESIGN PER SECTION R602.10.5 "WALL BRACING BY ENGINEERED DESIGN" OF THE NCRC 2018 EDITION USING BRACING MATERIALS AND METHODS LISTED IN TABLE R602.10.1 ALONG WITH ALTERNATIVE MATERIALS AND METHODS THAT COMPLY WITH ACCEPTED ENGINEERING PRACTICE. BRACED WALL DESIGN IS NOT PRESCRIPTIVE. SHEATH 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. 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.
- 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. 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. SEE NOTES AND DETAIL SHEETS FOR ADDITIONAL BRACED WALL

	LEGEND
CONT	CONTINUOUS
XT	EXTRA TRUSS
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

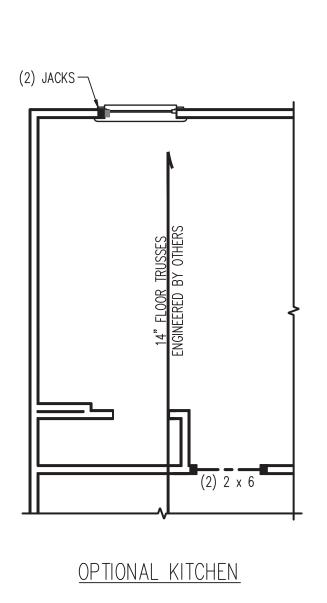
STRUCTURAL NOTES:

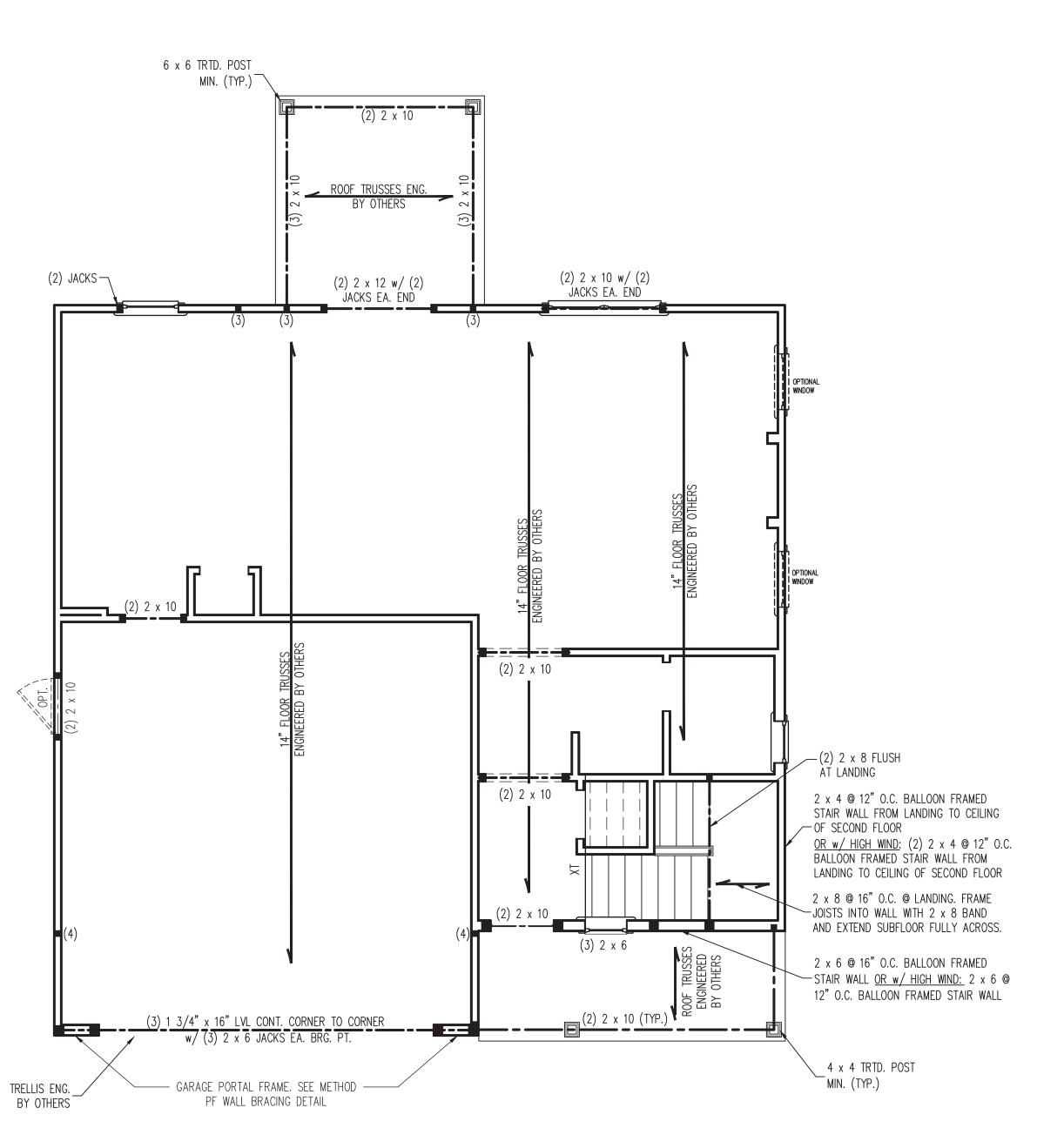
- ALL FRAMING LUMBER TO BE SPF #2 (UNO). ALL TREATED LUMBER TO BE SYP #2 (UNO.)
- 2. ALL LOAD BEARING HEADERS TO BE (2) 2 x 6
- 3. INSTALL 2 x 4 @ 16" O.C. BLOCKING BETWEEN ADJACENT TRUSSES UNDER WALLS PARALLEL TO FLOOR TRUSSES WHERE WALL LENGTH EXCEEDS 1/3 OF TRUSS SPAN (SEE DETAIL THIS SHEET). TRUSS 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
- 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.)
- 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.







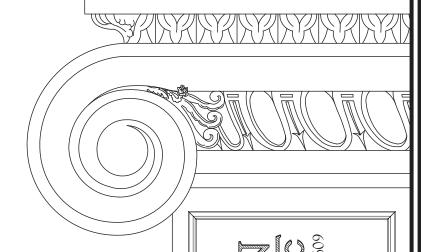
LYON ASCOT GROUP

DATE: MARCH 18, 2024 SCALE: 1/4" = 1'-0"

DRAWN BY: NS

ENGINEERED BY: WFB

SECOND FLOOR FRAMING PLAN



BRACED WALL DESIGN NOTES:

- 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

HEADER SPAN (FEET) MINIMUM NUMBER OF FUL 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



SCALE: 1/4" = 1'-0" DRAWN BY: NS ENGINEERED BY: WFB

DATE: MARCH 18, 2024

S-3 ATTIC FLOOR FRAMING PLAN

LYON ASCOT GROUP

_____ $(2) 2 \times 10 \text{ w}/(2)$ JACKS EA. END OR w/ ELEV B: $(2) 2 \times 12 \text{ w}/(2)$ JACKS EA. END ROOF TRUSSES ENG. BY OTHERS w/ ELEV. B 2 x 4 @ 12" O.C. BALLOON FRAMED STAIR WALL FROM 2 x 6 WALL OR 2 x 4 —LANDING TO CEILING (4) 2 x 6 WALL FURRED OUT TO — _ BÁLLOON FRAMED OR w/ HIGH WIND: (2) 2 x 4 @ MATCH STAIRWELL WIDTH STUDS w/ ELEV. B 12" O.C. BALLOON FRAMED STAIR

(3) 2 x 6 JACKS AND (3) 2 x 6 KING STUDS

BÁLLOON FRAMED EACH

END OF THESE WINDOWS

(2) 2 x 6 (3) 2 x 6

LOWER PLATE HEIGHT.
SEE ARCH SHEETS

WALL FROM LANDING TO CEILING

2 x 6 @ 16" O.C. BALLOON FRAMED STAIR WALL FROM BELOW

OR w/ HIGH WIND: 2 x 6 @ 12"

O.C. BALLOON FRAMED STAIR

WALL FROM BELOW

 $(2) 2 \times 10 \text{ w}/(2)$

JACKS EA. END

OR w/ ELEV B:

(2) 2 x 12 w/ (2)

JACKS EA. ÉND

ROOF TRUSSES

ENG. BY OTHERS

w/ ELEV. B

LOWER PLATE HEIGHT. SEE ARCH SHEETS

LOCATE ATTIC

ACCESS PER—

BUILDER

GIRDER TRUSS ENG. BY OTHERS

w/ (4) 2 x 4 EA. END

 \sqcup \sqcup

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
	•

STRUCTURAL NOTES:

- . ALL FRAMING LUMBER TO BE #2 SPF (UNO).
- 2. CIRCLES DENOTE (3) 2 x 4 POSTS FOR ROOF SUPPORT.
- FRAME DORMER WALLS ON TOP OF DOUBLE OR TRIPLE RAFTERS.
- 4. HIP SPLICES ARE TO BE SPACED A MIN. OF 8'-0". FASTEN MEMBERS WITH THREE ROWS OF
- 12d NAILS @ 16" O.C. (TYP.)
 5. STICK FRAME OVER-FRAMED ROOF SECTIONS W/
- FLAT 2 x 10 VALLEYS OR USE VALLEY TRUSSES.

 6. 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

2 x 8 RIDGES, 2 x 6 RAFTERS @ 16" O.C. AND

- (6) 12d TOE NAILS.

 7. REFER TO SECTION R802.11 OF THE 2018 NCRC FOR REQUIRED UPLIFT RESISTANCE AT RAFTERS AND TRUSSES.
- 8. 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
	l

OUP

LYON ASCOT GROI

DATE: MARCH 18, 2024

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

DRAWN BY: NS

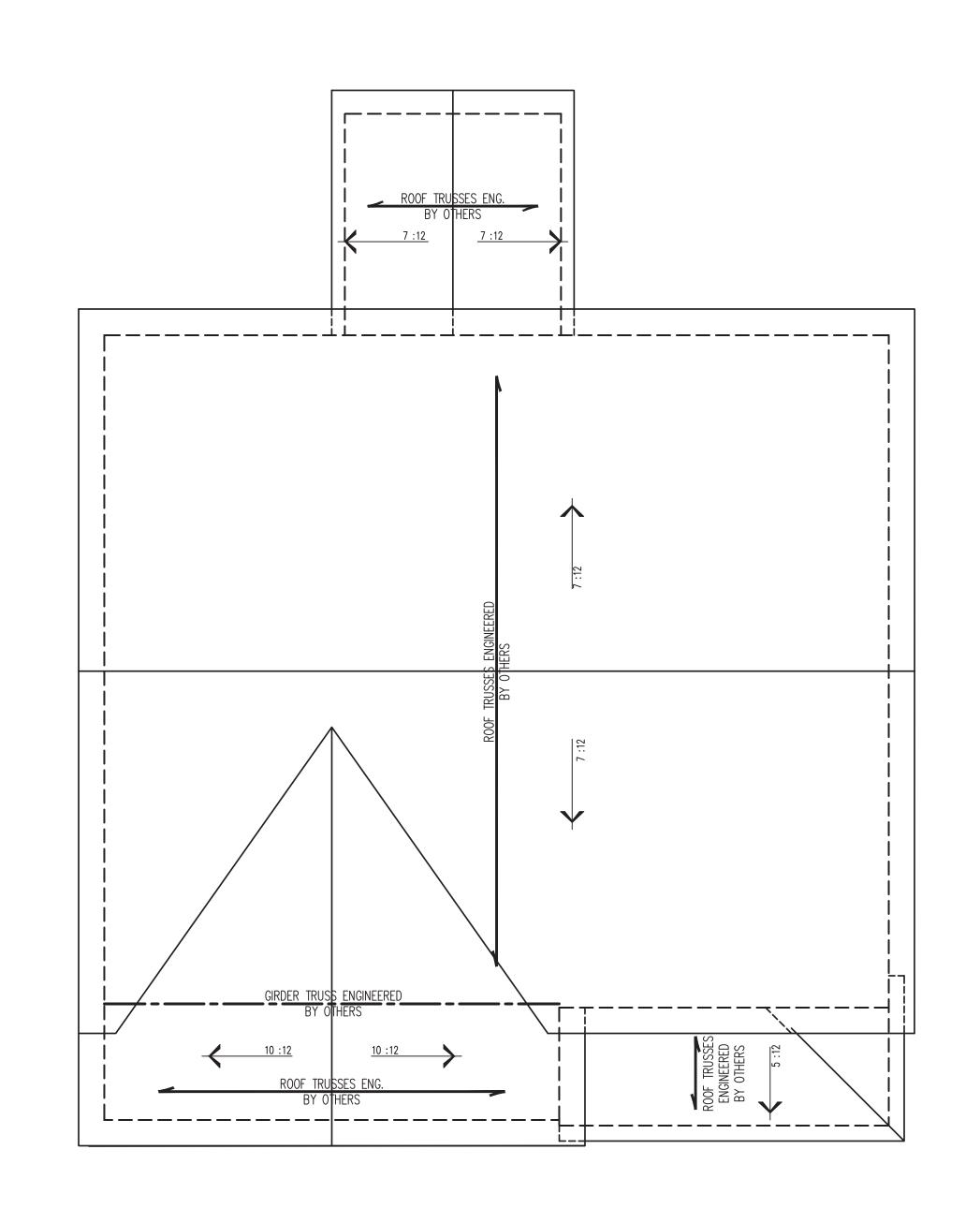
ENGINEERED BY: WFB

S-4a ROOF FRAMING PLAN

SEAL
33736

SEAL
33736

3/18/2024



ELEVATION A

ROOF TRUSSES ENG.
BY OTHERS 10:12 10:12 ROOF TRUSSES
ENG. BY OTHERS ROOF TRUSSES
ENG. BY OTHERS

<u>ELEVATION B</u>

STRUCTURAL NOTES:

- . ALL FRAMING LUMBER TO BE #2 SPF (UNO). 2. CIRCLES DENOTE (3) 2 x 4 POSTS FOR ROOF
- SUPPORT.
- 3. FRAME DORMER WALLS ON TOP OF DOUBLE OR TRIPLE RAFTERS.
- 4. HIP SPLICES ARE TO BE SPACED A MIN. OF 8'-0". FASTEN MEMBERS WITH THREE ROWS OF
- 12d NAILS @ 16" O.C. (TYP.)
- . 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 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

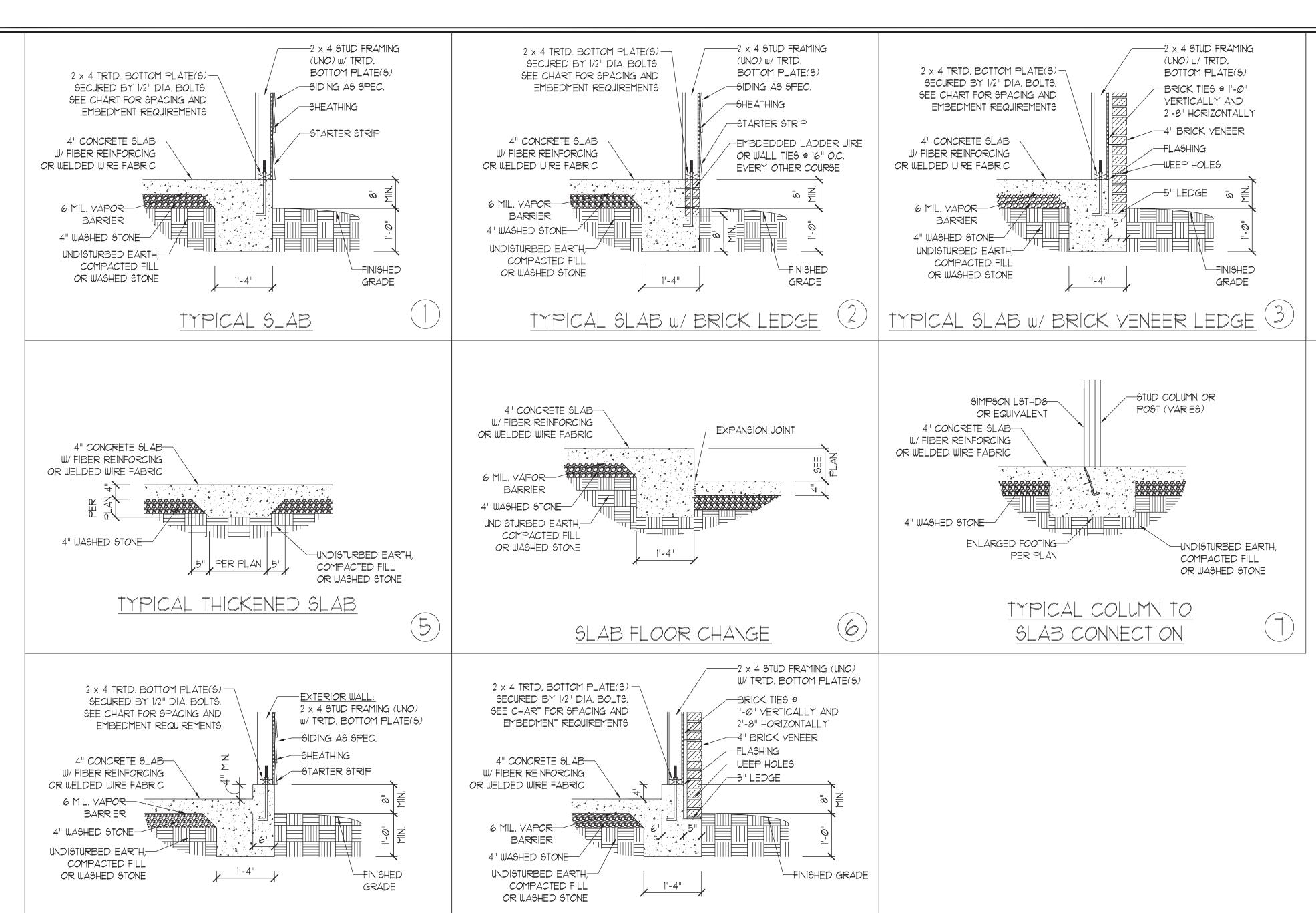
DATE: MARCH 18, 2024

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

DRAWN BY: NS

ENGINEERED BY: WFB

S-4b roof framing PLAN



GARAGE CURB W/ BRICK LEDGE

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:

SLOPE SLAB 1/8" PER FOOT

GARAGE DOOR JAMB-

A . A . A . A . A . A . A . A . A

4" CONCRETE SLAB

W/ FIBER REINFORCING

OR WELDED WIRE FABRIC

6 MIL. VAPOR BARRIER

4" WASHED STONE

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

UNDISTURBED EARTH,-COMPACTED FILL OR

WASHED STONE

8

GARAGE CURB

STEP IN GARAGE

120 MPH

6'-0" O.C.

INSTALL MIN. (2) ANCHORS PER

PLATE SECTION AND (1)

ANCHOR WITHIN 12" OF CORNERS

7"

 -2×4 TRTD. BOTTOM PLATE(5)

EMBEDMENT REQUIREMENTS

ANCHOR SPACING AND EMBEDMENT

SECURED BY 1/2" DIA. BOLTS. SEE CHART FOR SPACING AND

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

WELDED WIRE FABRIC

2 x 4 STUD FRAMING-(UNO) W/ TRTD.

BOTTOM PLATE(S)

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

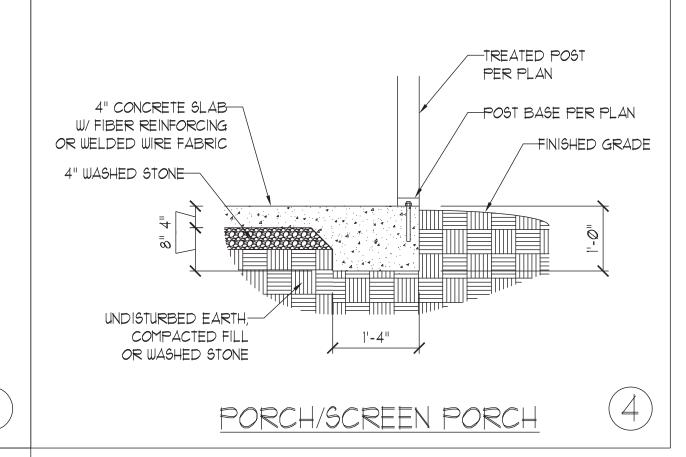
4" CONCRETE -SLAB W/ FIBER REINFORCING

4" WASHED STONE-

WIND ZONE

SPACING

EMBEDMENT





MONOLITHIC SLAB FOUNDATION DETAILS

SEAL 33736

WILLIAM G. STRONG G. STR

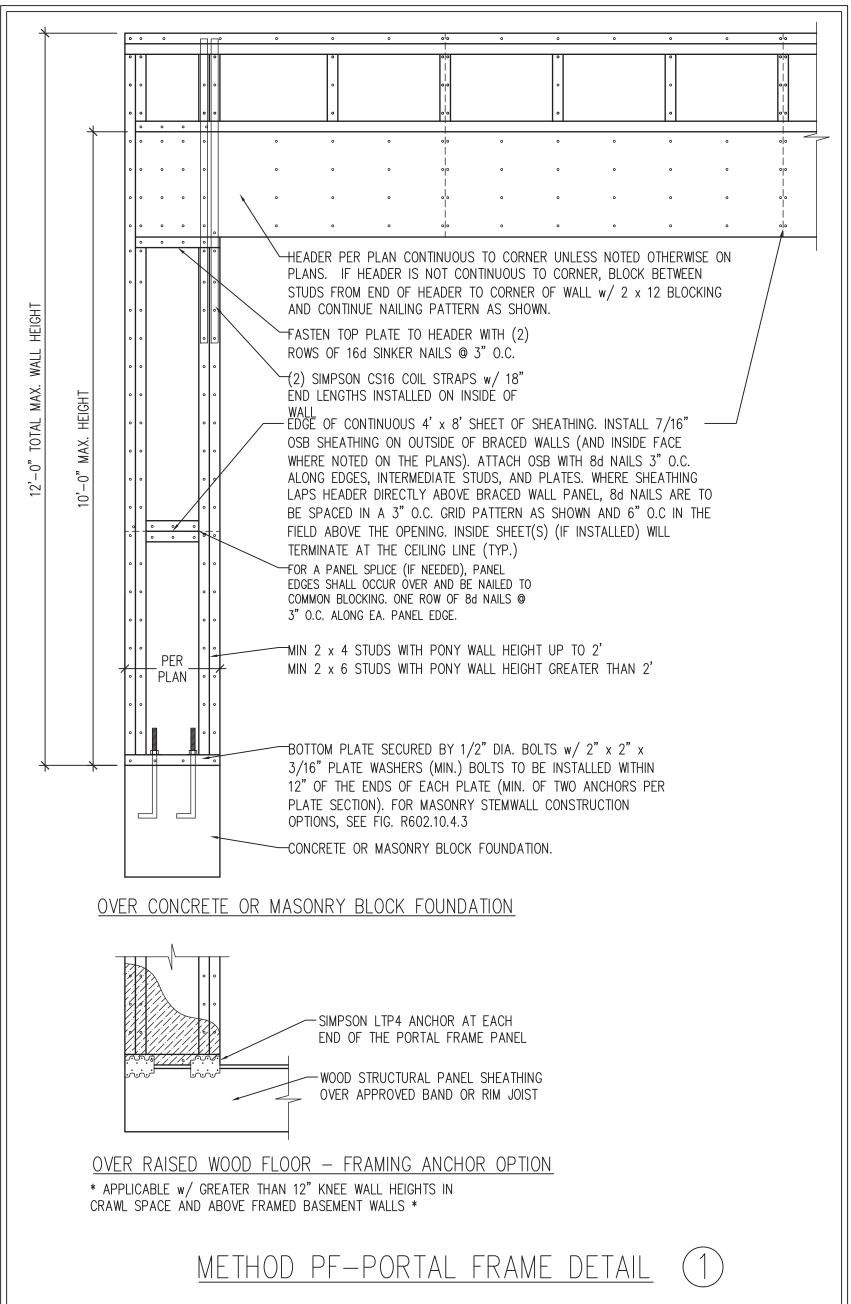
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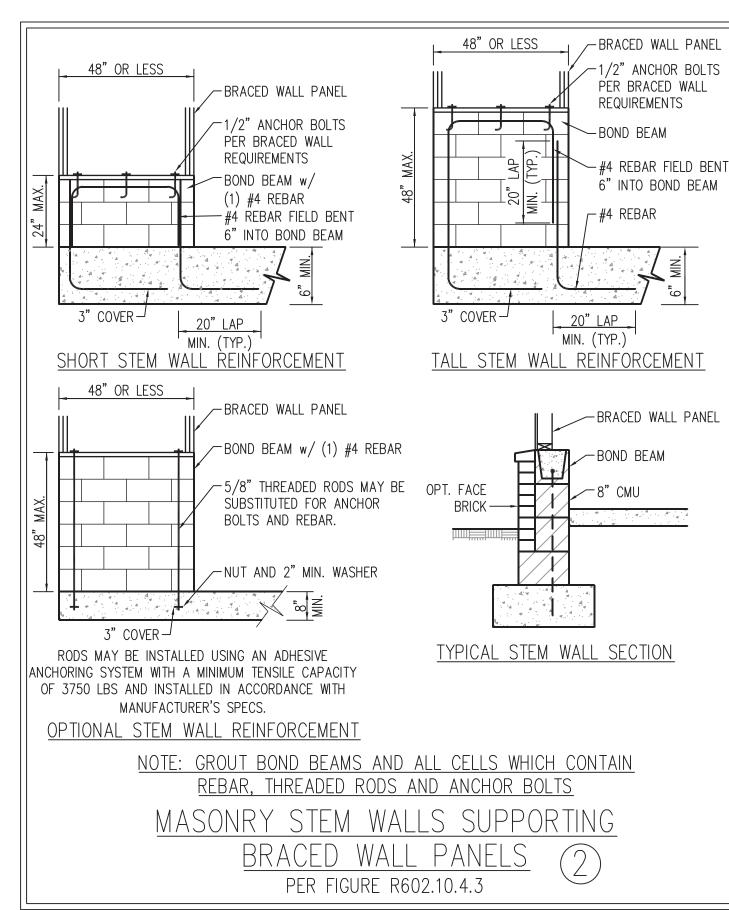
DATE: AUGUST 30, 2022
SCALE: NTS
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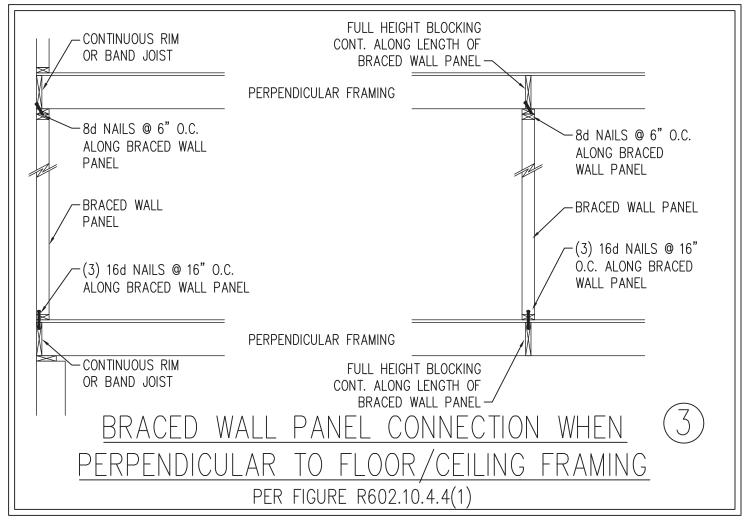
FOUNDATION DETAILS

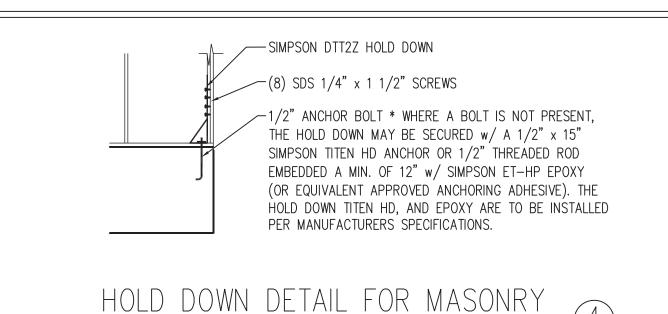
DETAILS

- 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.
- . 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.).
- B. 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 R702.3.5. FOR EXTERIOR FASTENER OPTIONS SEE TABLE R602.3(1). EXTERIOR GB TO BE INSTALLED VERTICALLY.
- 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.



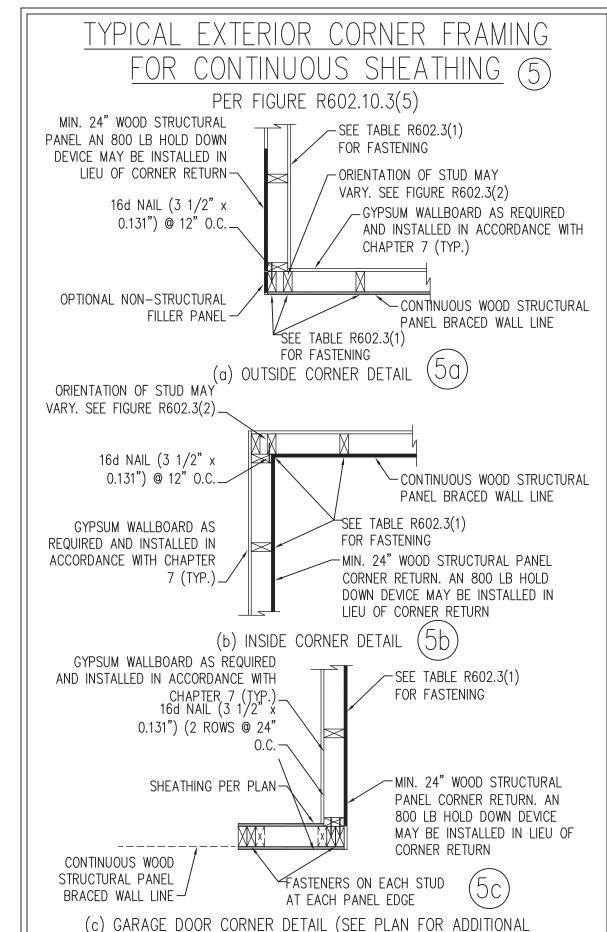




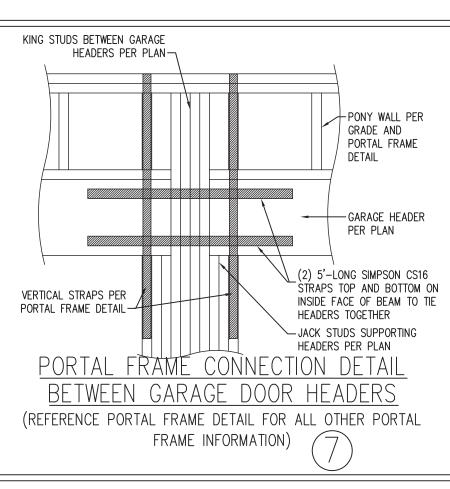


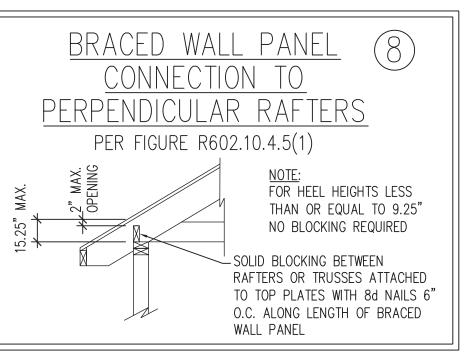
FOUNDATION OR MONOLITHIC SLAB

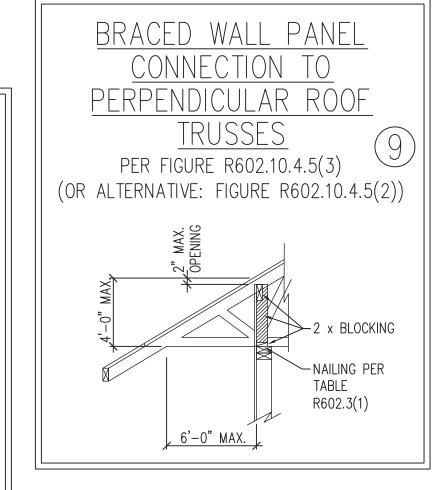
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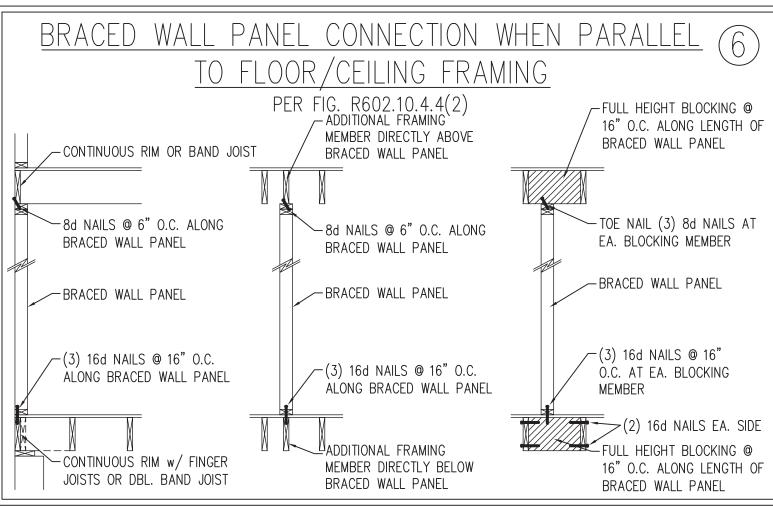


STRUCTURAL INFORMATION OR ALTERNATE CONFIGURATIONS)

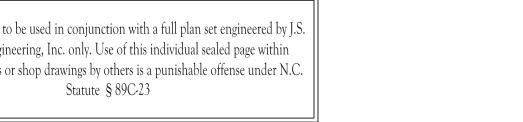


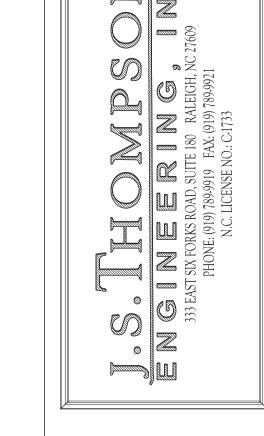






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ANI BRACING

DATE: AUGUST 30, 2022

SCALE: 1/4" = 1'-0" DRAWN BY: JST

ENGINEERED BY: JST

BRACED WALL NOTES AND DETAILS AND PF DETAIL

33736 3/18/2024

FRAMING 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.

GENERAL NOTES

- 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.	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 STEEL 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.

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- 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).

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

A. W AND WT SHAPES: ASTM A992

B. 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 S

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

B. CONCRETE

C. MASONRY (FULLY GROUTED)

D. STEEL PIPE COLUMN

(2) 1/2" DIA. x 4" LONG LAG SCREWS

(2) 1/2" DIA. x 4" WEDGE ANCHORS

(2) 1/2" DIA. x 4" LONG SIMPSON TITEN HD ANCHORS

(4) 3/4" DIA. A325 BOLTS OR 3/16" FILLET WELD

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).
- 15. ALL 4 x 4 AND 6 x 6 POSTS TO BE INSTALLED WITH 700 LB CAPACITY UPLIFT CONNECTORS TOP AND BOTTOM (UNO.) POSTS MAY BE SECURED USING ONE SIMPSON H6 OR LTS12 UPLIFT CONNECTOR FASTENED TO THE BAND AT THE BOTTOM AND THE BEAM AT THE TOP OF EACH POST. ONE 16" SECTION OF SIMPSON CS16 COIL STRAPPING WITH (8) 8d HDG NAILS AT EACH END MAY BE USED IN LIEU OF EACH TWIST STRAP IF DESIRED. FOR MASONRY OR CONCRETE FOUNDATION USE SIMPSON POST BASE.

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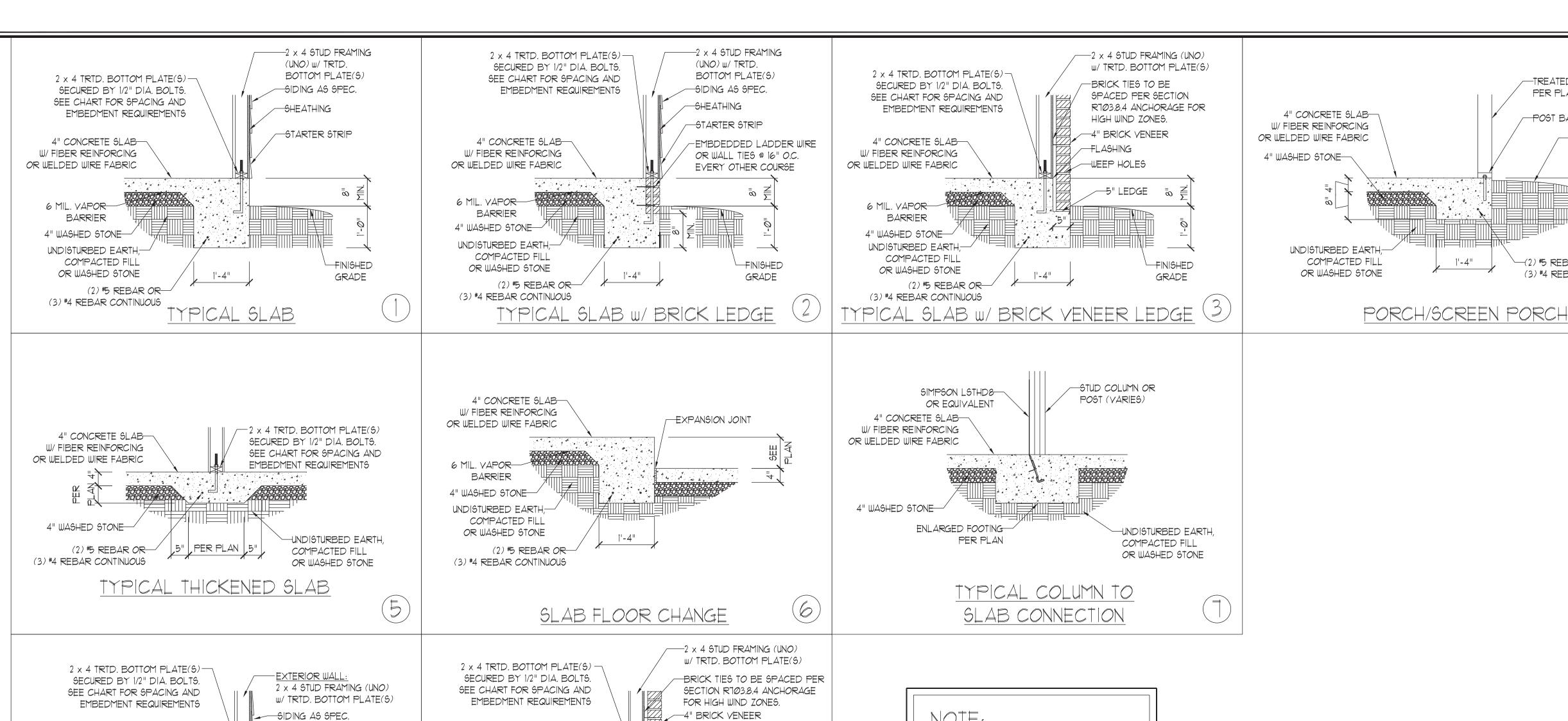
STRUCTURAL

NOTES

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ANDARD STRUCTURAL NOTES

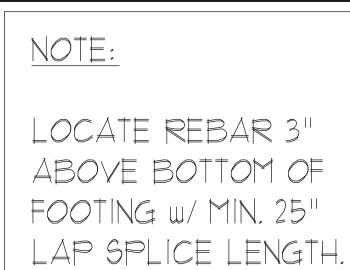


FLASHING

∕−5" LEDGE

WEEP HOLES

-FINISHED GRADE



(2) #5 REBAR OR
(3) #4 REBAR CONTINUOUS

4" CONCRETE SLAB W/ FIBER REINFORCING SLOPE SLAB 1/8" PER FOOT OR WELDED WIRE FABRIC A . A . A . A . A . A . A . A . A 6 MIL. VAPOR BARRIER -4" CONCRETE SLAB w/ FIBER REINFORCING OR 4" WASHED STONE 1'-4" UNDISTURBED EARTH,-(2) #5 REBAR OR (3) #4 REBAR CONTINUOUS COMPACTED FILL OR WASHED STONE

SLAB AT GARAGE DOOR

GARAGE DOOR JAMB

1'-4"

GARAGE CURB W/ BRICK LEDGE

4" CONCRETE SLAB

W/ FIBER REINFORCING

OR WELDED WIRE FABRIC

6 MIL. VAPOR-

BARRIER

4" WASHED STONE

UNDISTURBED EARTH,— COMPACTED FILL OR WASHED STONE

	ANCHOR SPACING AND EM	IBEDMENT
WIND ZONE	140 MPH	150 MPH
SPACING	6'-0" O.C. w/ DBL. SILL PLATE OR 1'-9" O.C w/ SINGLE SILL PLATE w/ 2" x 2" x 1/8" WASHERS INSTALL MIN. (2) ANCHORS PER PLATE SECTION AND (1) ANCHOR WITHIN 12" OF CORNERS	6'-0" O.C. w/ DBL. SILL PLATE OR 1'-6" O.C w/ SINGLE 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	7"	7"

WELDED WIRE FABRIC

(3) *4 REBAR CONTINUOUS

SHEATHING

STARTER STRIP

 -2×4 TRTD. BOTTOM PLATE(5)

EMBEDMENT REQUIREMENTS

SECURED BY 1/2" DIA. BOLTS. SEE CHART FOR SPACING AND

-(2) #5 REBAR OR

FINISHED GRADE

8

4" CONCRETE SLAB

W/ FIBER REINFORCING

OR WELDED WIRE FABRIC

6 MIL. VAPOR— BARRIER

4" WASHED STONE-

UNDISTURBED EARTH,

COMPACTED FILL OR WASHED STONE

(2) #5 REBAR OR-

GARAGE CURB

STEP IN GARAGE

(3) #4 REBAR CONTINUOUS

2 x 4 STUD FRAMING-(UNO) W/ TRTD.

BOTTOM PLATE(S)

4" CONCRETE-SLAB W/ FIBER REINFORCING

4" WASHED STONE-

UNDISTURBED EARTH,

COMPACTED FILL OR WASHED STONE

THREADED ROD WITH EPOXY, SIMPSON TITEN HD, 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.

NOTE:



-TREATED POST

POST BASE PER PLAN

-FINISHED GRADE

PER PLAN

-(2) #5 REBAR OR

(3) #4 REBAR CONTINUOUS

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Z:\CAD Drawings\Details and Notes\Foundation Details\Mono slab foundation details_HIGH WIND_8-22.dwg, 8/30/2022 2:05:13 PM, Craig Amos

SPEED WIND DETAI DESIGN DATION I ULTIMATE I SLAB FOUNI 140 MPH - 150 MPH MONOLITHIC

DATE: AUGUST 30, 2022 SCALE: NTS DRAWN BY: JST

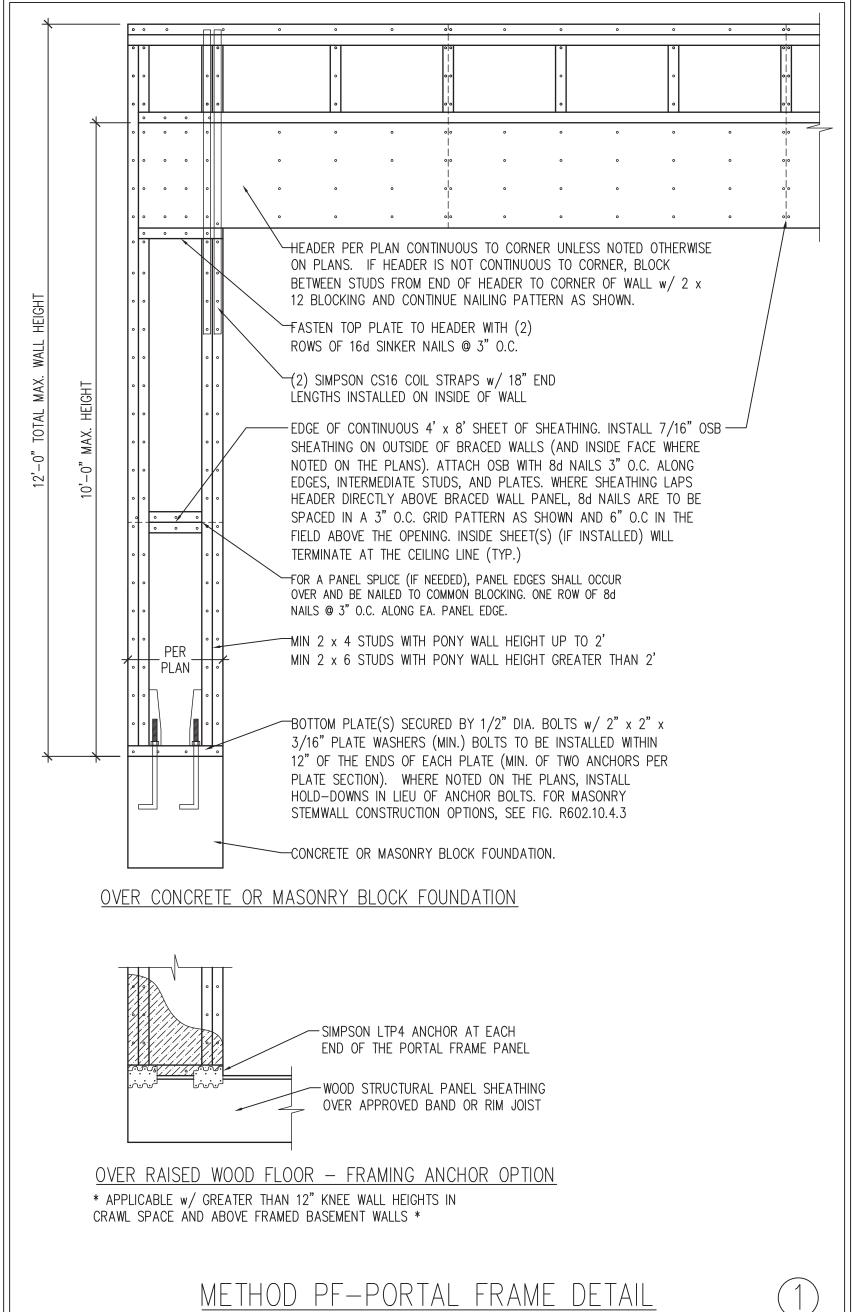
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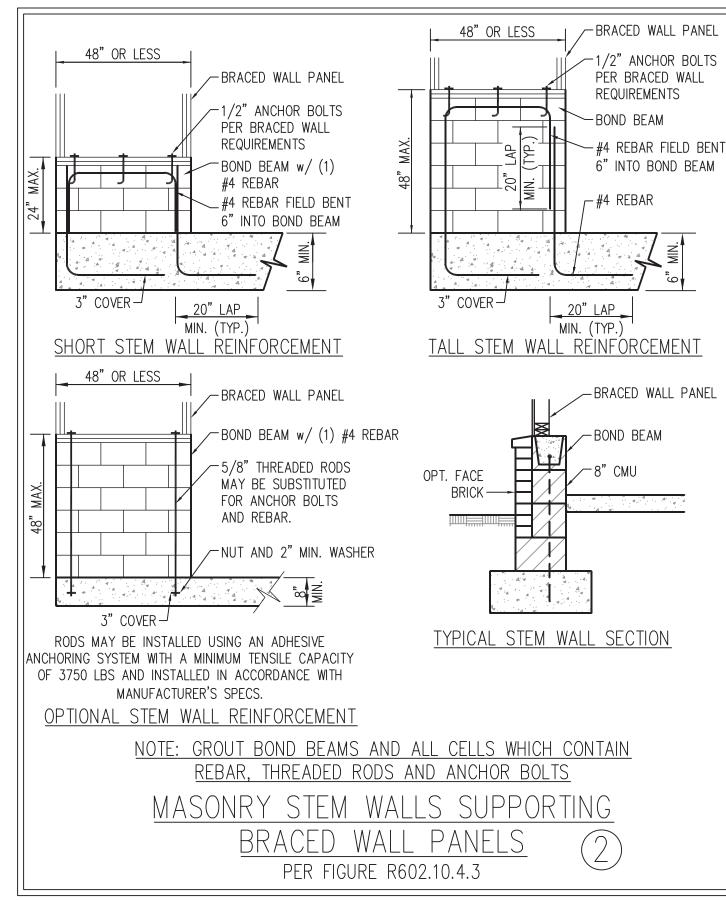
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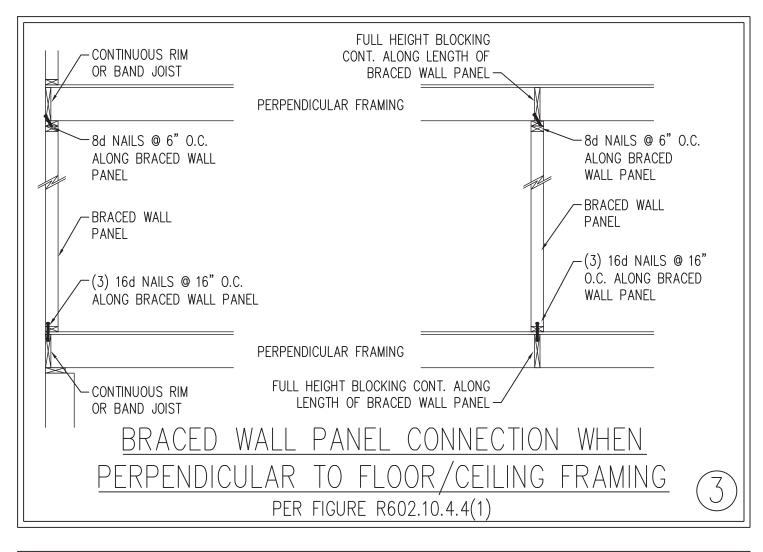
DETAILS

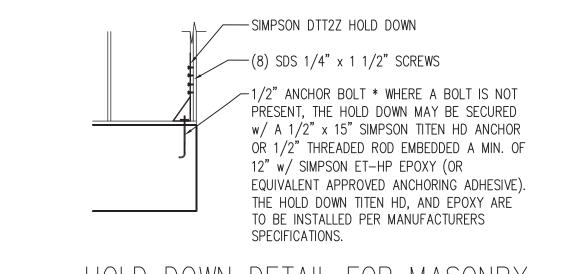
- 1. WALL BRACING DESIGNED IN ACCORDANCE WITH CHAPTER 6 AND CHAPTER 45 OF THE 2018 NC RESIDENTIAL BUILDING CODE (NCRC). TABLES AND FIGURES REFERENCED ARE FROM THE 2018 NCRC.
- 3. SEE STRUCTURAL SHEETS FOR BRACED WALL LOCATIONS, DIMENSIONS, HOLD DOWN TYPE AND LOCATIONS. AND ANY SPECIAL NOTES OR REQUIREMENTS 4. ALL EXTERIOR WALLS ARE TO BE SHEATHED WITH 7/16" OSB WITH BLOCKING AT ALL SHEATHING JOINTS AND 8d NAILS AT 3"
- O.C. ALONG EDGES AND 6" O.C. IN THE FIELD UNLESS NOTED OTHERWISE 5. SECURE ALL EXTERIOR WALL SHEATHING PANELS TO DOUBLE TOP PLATES, BAND 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 SILL PLATES THEIR FULL DEPTH.
- 6. ALL EXTERIOR WALLS TO BE SHEATHED ON INSIDE FACE WITH 1/2" GYPSUM BOARD PER TABLE R702.3.5 (UNO)

2. SEE THIS SHEET FOR GENERAL DETAILS. REFER TO THE 2018 NCRC FOR ADDITIONAL INFORMATION AS NEEDED.

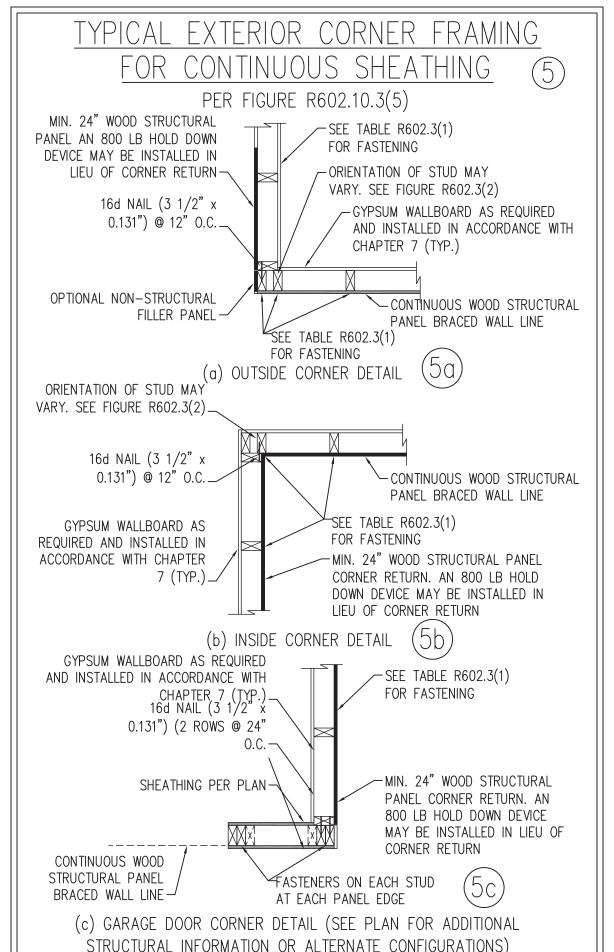


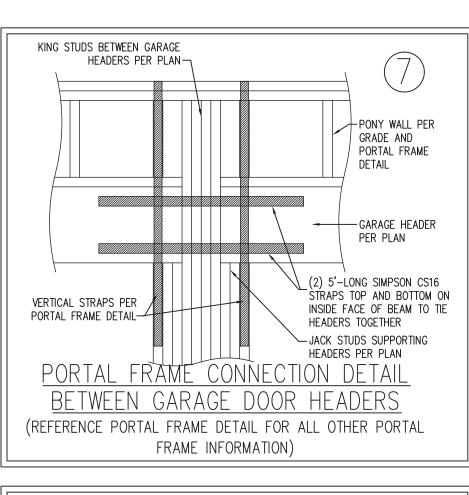


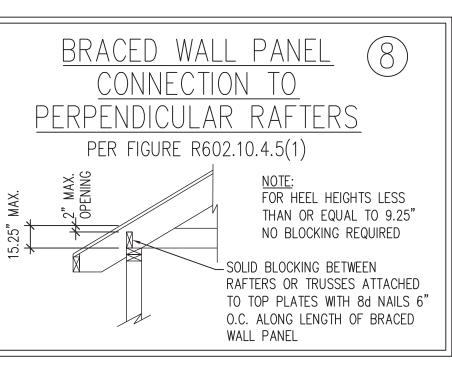


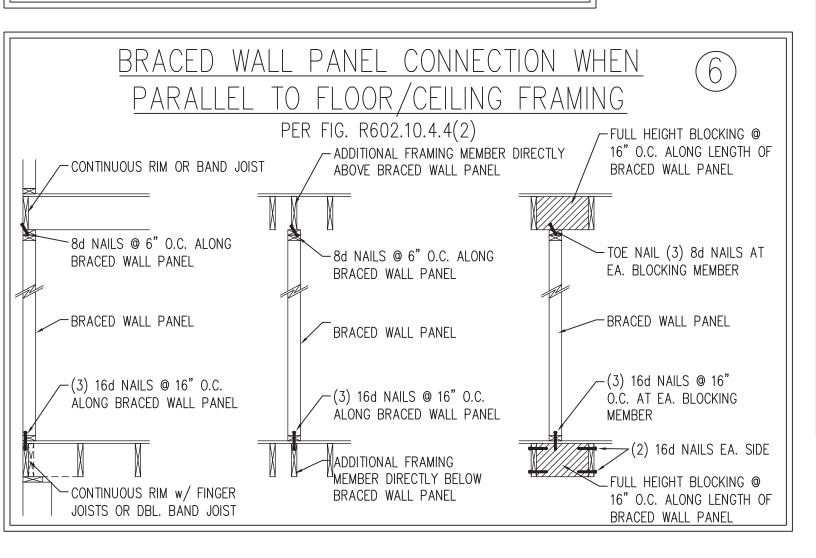


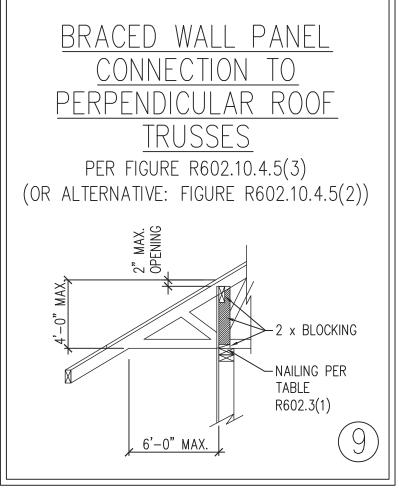
HOLD DOWN DETAIL FOR MASONRY FOUNDATION OR MONOLITHIC * APPLICABLE ONLY WHERE SPECIFIED ON PLAN *











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ENGINEERED BY: JST

SCALE: NTS

DATE: AUGUST 30, 2022

D-2 BRACED WALL NOTES AND DETAILS AND PF DETAIL

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SPEE SIGN WIND (ID DETAILS MPH ULTIMATE BRACING NOTES MPH - 150 | WALL F 40

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.:	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.

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- 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).

FRAMING NOTES

- 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).
- 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

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

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).
- 15. ALL 4 x 4 AND 6 x 6 POSTS TO BE INSTALLED WITH 700 LB CAPACITY UPLIFT CONNECTORS TOP AND BOTTOM (UNO.) POSTS MAY BE SECURED USING ONE SIMPSON H6 OR LTS12 UPLIFT CONNECTOR FASTENED TO THE BAND AT THE BOTTOM AND THE BEAM AT THE TOP OF EACH POST. ONE 16" SECTION OF SIMPSON CS16 COIL STRAPPING WITH (8) 8d HDG NAILS AT EACH END MAY BE USED IN LIEU OF EACH TWIST STRAP IF DESIRED. FOR MASONRY OR CONCRETE FOUNDATION USE SIMPSON POST BASE.

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3/18/2024

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STRUCTURAL NOTES