REVIEWED BY:

# SOPHIA REVISION LIST - STRUCTURAL:

1.) ADDED PLUMBING DROP TO SLAB AND STEM WALL SHEETS (4-25)

15.)

16.) 17.)

18.)

19.) 20.)

21.)

23.)

22.)

24.)

26.)

25.)

27.)

28.) 29.)

30.)

# SOPHIA REVISION LIST - ARCHITECTURAL:

1.) NEW. (12-24)

2.) REMOVED WALL FROM END OF CABINETS IN KITCHEN (4-25)

3.) MADE WALL BETWEEN PANTRY AND COAT CLOSET 2x6 PLUMBING WALL (4-25)

4.) MADE WALL BETWEEN BEDROOM #5 CLOSET AND HALL BATH 2x6 PLUMBING WALL (4-25)

5.) REMOVED DROP ZONE UNDER STAIRS AND REPLACED WITH DOOR TO STORAGE UNDER STAIRS (4-25)

16.)

17.)

18.) 19.)

20.) 21.)

23.)

24.)

26.)

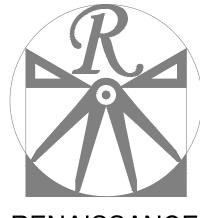
25.)

28.) 29.)

30.)

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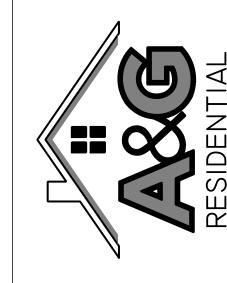
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A&G RESIDENTIAL SOPHIA

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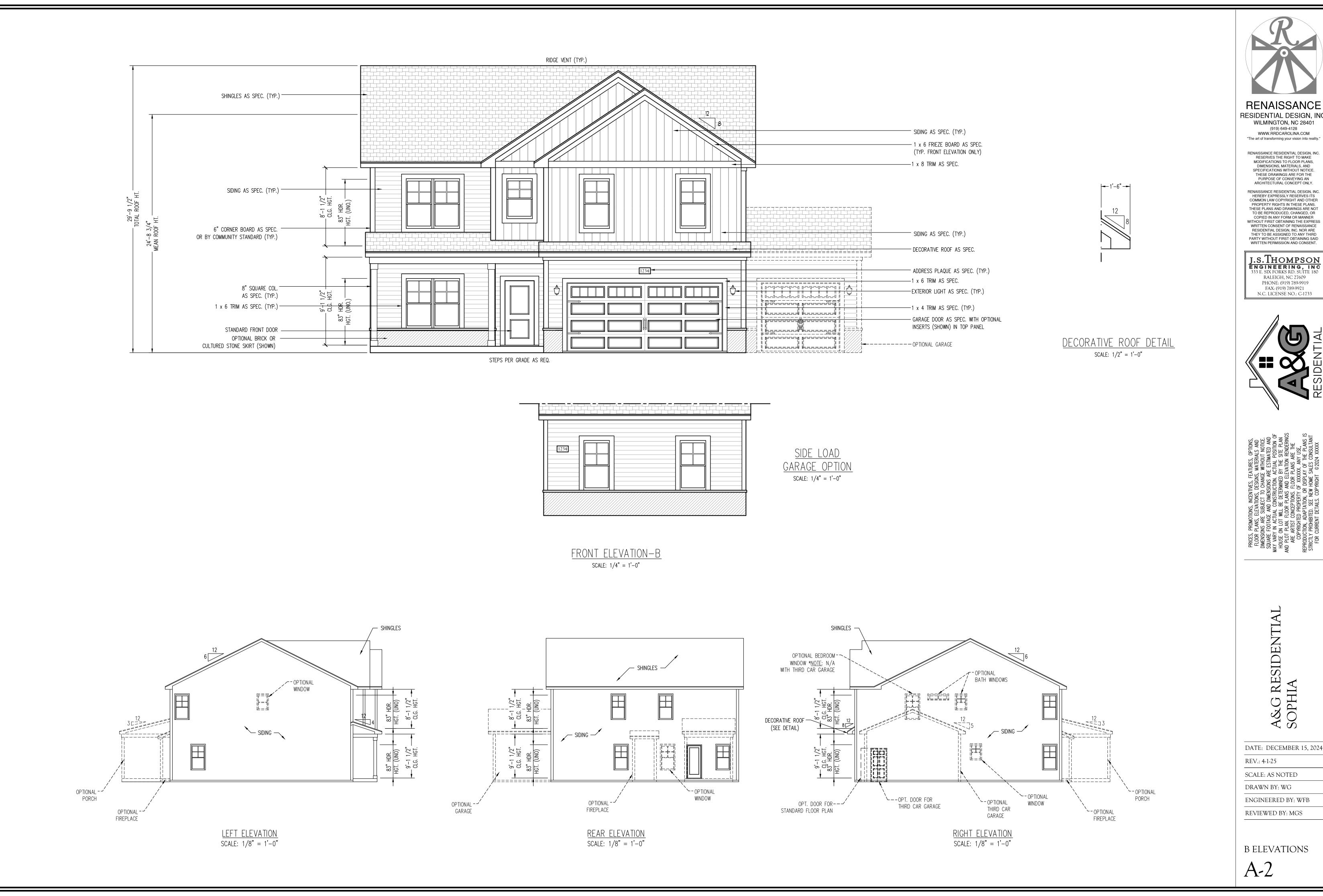
SCALE: AS NOTED

DRAWN BY: WG
ENGINEERED BY: WFB

REVIEWED BY: MGS

A ELEVATIONS

A-1

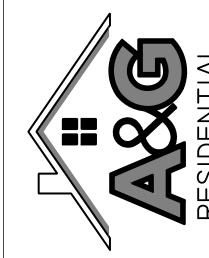


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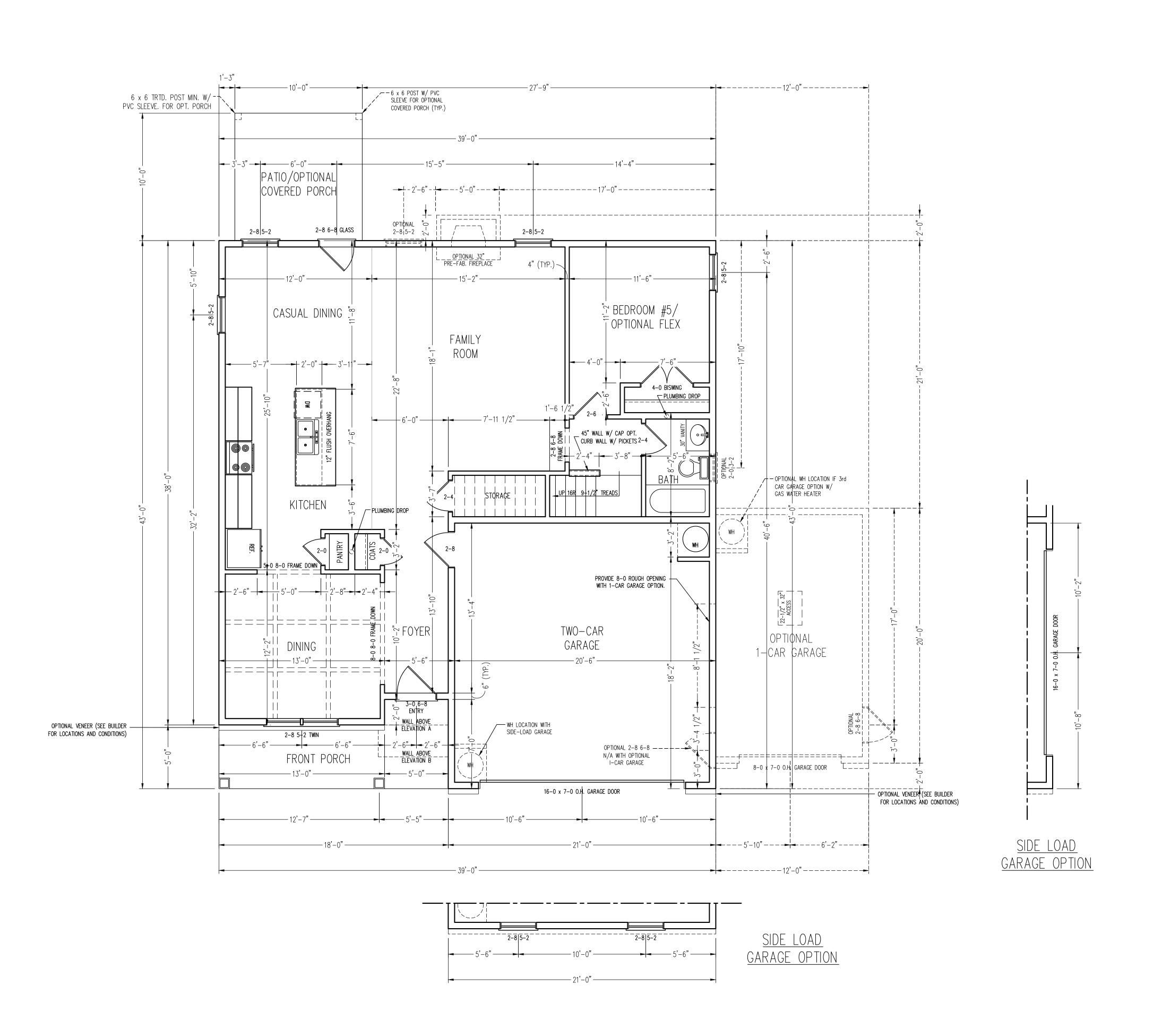
A&G RESIDENTIAL SOPHIA

DATE: DECEMBER 15, 2024

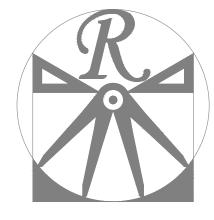
SCALE: AS NOTED

DRAWN BY: WG

REVIEWED BY: MGS



FIRST FLOOR PLAN



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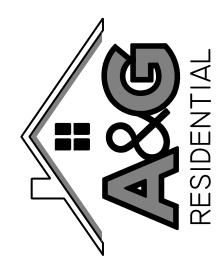
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REV.: 4-1-25

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

DRAWN BY: WG

ENGINEERED BY: WFB

REVIEWED BY: MGS

FIRST FLOOR

PLAN

A-3

SQUARE FOOTAGE ELEVATION A

 1st FLOOR:
 1146 SQ. FT.

 2nd FLOOR:
 1587 SQ. FT.

 TOTAL:
 2733 SQ. FT.

 FRONT PORCH:
 100 SQ. FT.

 PATIO/ OPT. REAR PORCH:
 100 SQ. FT.

 GARAGE:
 430 SQ. FT.

 OPT. 1-CAR GARAGE:
 240 SQ. FT.

SQUARE FOOTAGE ELEVATION B

 1st FLOOR:
 1146 SQ. FT.

 2nd FLOOR:
 1601 SQ. FT.

 TOTAL:
 2747 SQ. FT.

 FRONT PORCH:
 100 SQ. FT.

 PATIO/ OPT. REAR PORCH:
 100 SQ. FT.

 GARAGE:
 430 SQ. FT.

 OPT. 1-CAR GARAGE:
 240 SQ. FT.

\*NOTE: ALL EXTERIOR WALLS AND ATTIC WALLS ARE TO BE 2 x 4 @ 16" O.C. MIN. (UNO). 2 x 6 @ 16" O.C. EXTERIOR WALLS MAY BE CONSTRUCTED IN LIEU OF 2 x 4 WALLS. ALL INTERIOR LOAD BEARING WALLS ARE TO BE 2 x 4 @ 16" O.C. (UNO) AND NON—LOAD BEARING INTERIOR WALLS ARE TO BE 2 x 4 @ 24" O.C. (UNO).

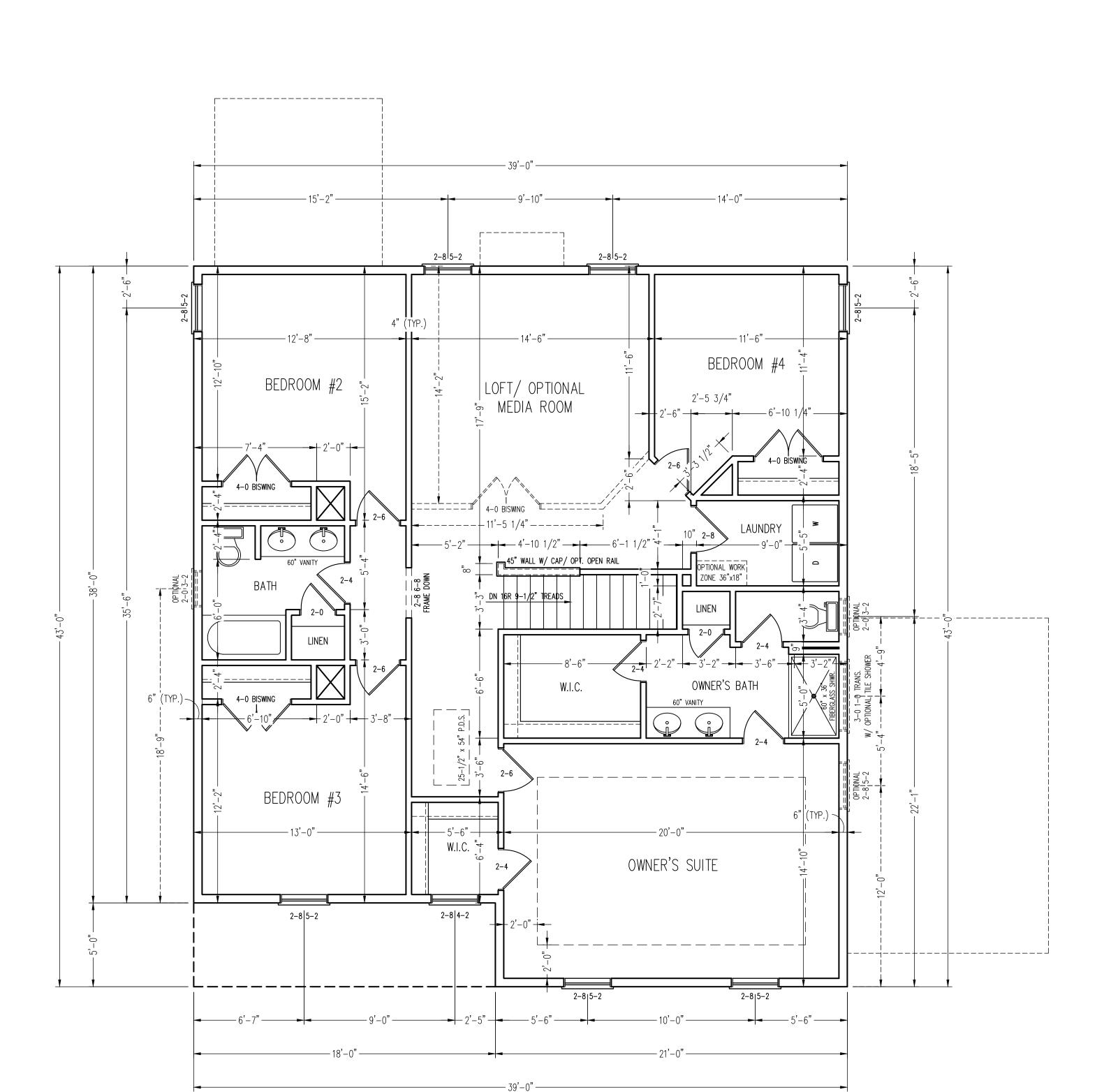
2x6 WALL

\* SHADED WALLS ARE TO BE 2 x 6 @ 16"

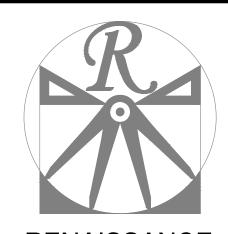
O.C. (LOAD BEARING) OR 2 x 6 @ 24" O.C.

(NON-LOAD BEARING) REGARDLESS OF

EXTERIOR WALL CONDITION



SECOND FLOOR PLAN <u>ELEVATION A</u>



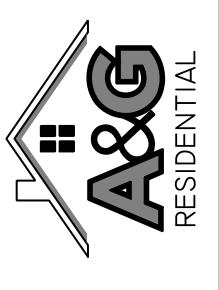
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A&G RESIDENTIAL SOPHIA

DATE: DECEMBER 15, 2024 REV.: 4-1-25

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

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O.C. (LOAD BEARING) OR 2 x 6 @ 24" O.C.

(NON-LOAD BEARING) REGARDLESS OF

TO BE 2 x 4 @ 24" O.C. (UNO).

2x6 WALL

**EXTERIOR WALL CONDITION** 

MAY BE CONSTRUCTED IN LIEU OF 2 x 4

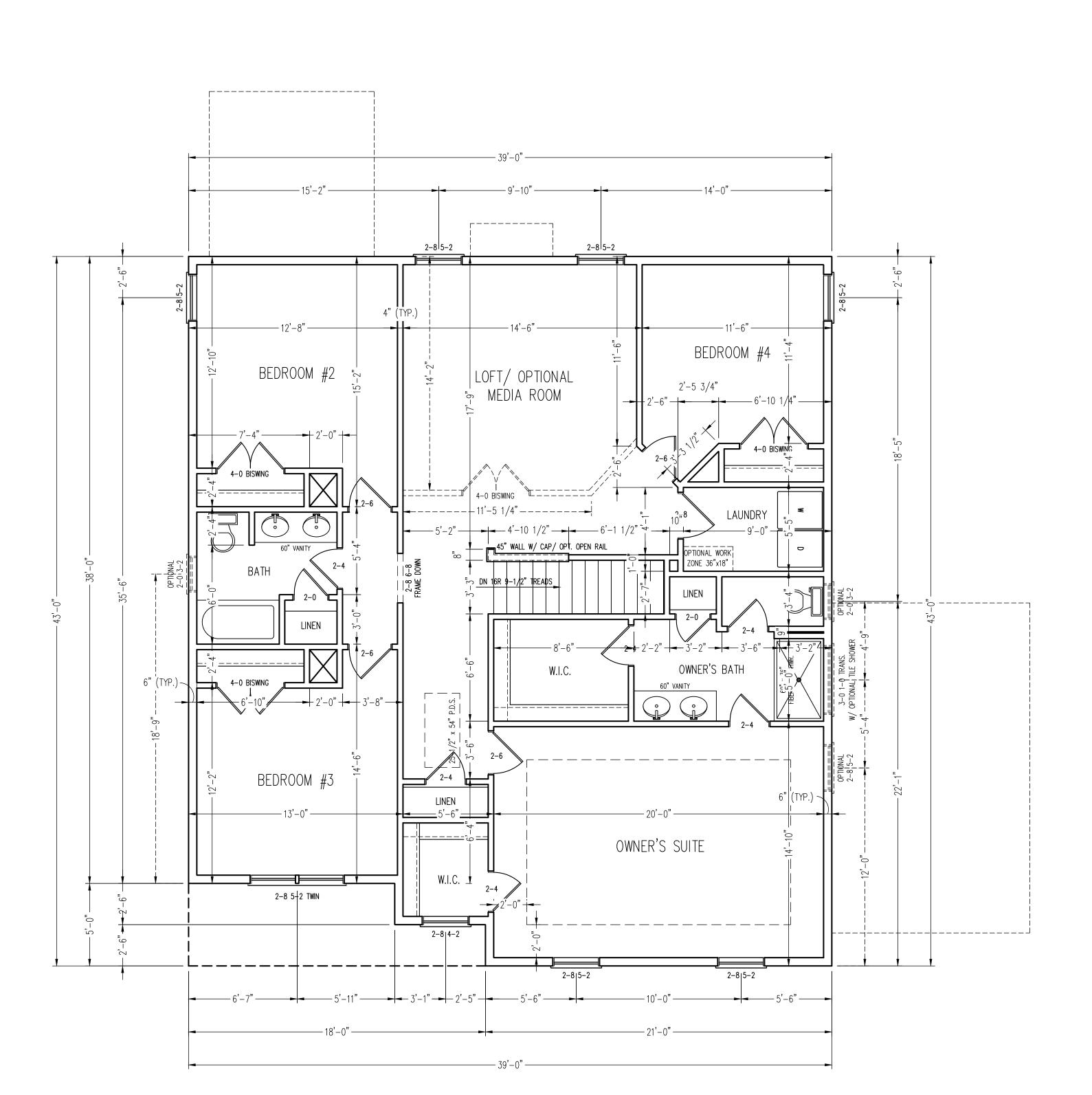
DRAWN BY: WG

ENGINEERED BY: WFB

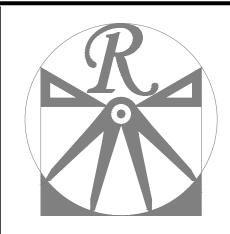
REVIEWED BY: MGS SECOND FLOOR PLAN

ELEVATION A

A-4



<u>ELEVATION B</u>



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2x6 WALL

**EXTERIOR WALL CONDITION** 

MAY BE CONSTRUCTED IN LIEU OF 2 x 4

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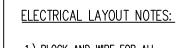
DRAWN BY: WG

ENGINEERED BY: WFB REVIEWED BY: MGS

SECOND FLOOR PLAN ELEVATION B

A-4.1

SECOND FLOOR PLAN



1.) BLOCK AND WIRE FOR ALL CELING FANS PER PLAN.

2.) VANITY LIGHTS TO BE SET @ 90" A.F.F. (TYP.)

3.) ADDITIONAL EXTERIOR OUTLETS REQUIRED BY CODE TO BE LOCATED BY ELECTRICIAN.

4.) PLACE SWITCHES 8" (MIN.) FROM ROUGH OPENINGS.

# ELECTRICAL LEGEND

110 V OUTLET 🚓

110 V GFI OUTLET 👄

110 V SWITCHED OUTLET 

110 V BASEBOARD OUTLET 

⇒ BB

4−PLEX I

COUNTER OR FLOOR MOUNTED

COUNTER OR FLOOR MOUNTED 110V GFI

WEATHERPROOF €

wP 220 V OUTLET <del>=</del>

110 V DEDICATED CIRCUIT 🔌

220 V DEDICATED CIRCUIT

SPECIAL PURPOSE (240 V, ETC.)

WALL MOUNT LIGHT -

PENDANT LIGHT -(P)-

RECESSED CAN LIGHT

MINI CAN LIGHT 

EYEBALL LIGHT

FLUORESCENT LIGHT

UNDERCABINET LIGHT

FLOOD LIGHT

SWITCH \$

TELEPHONE 🛕

DATA 🛆

TELEPHONE AND DATA

TV CONNECTION

—TV

TV/ DATA - TO

CONDUIT FOR COMPONENT WIRING -CD
SPEAKER SP

110 V SMOKE/ CM DETECTOR SD

EXHAUST FAN

LOW VOLTAGE PANEL

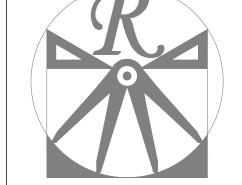
LVP

ALARM PANEL

ALARM

CEILING FAN

CEILING FAN W/ LIGHT



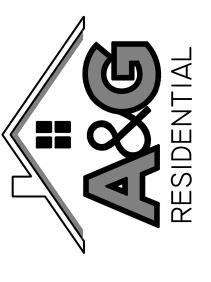
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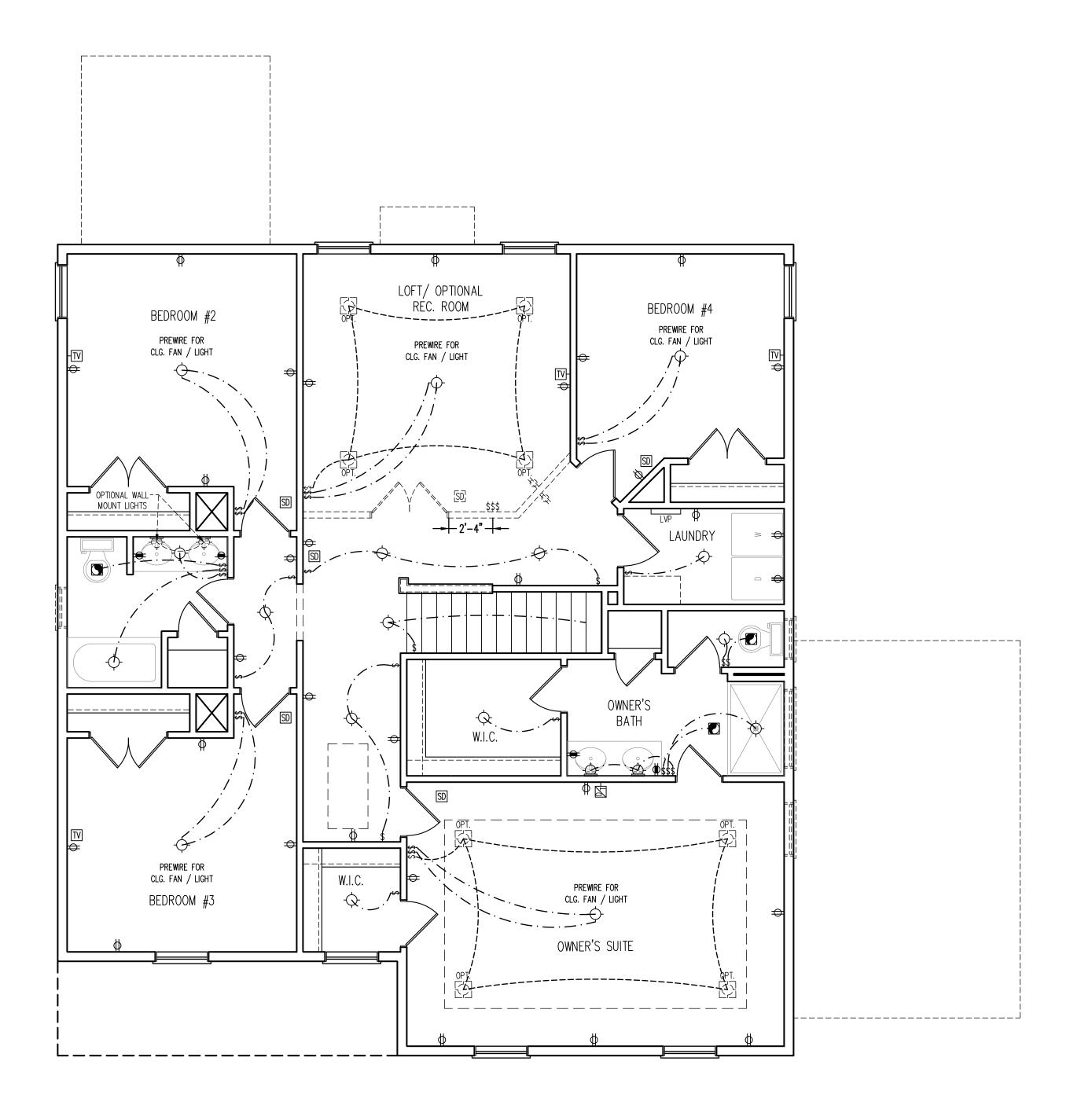
ENGINEERED BY: WFB

REVIEWED BY: MGS
FIRST FLOOR

ELECTRICAL PLAN

E-1

FIRST FLOOR ELECTRICAL PLAN



ELECTRICAL LAYOUT NOTES:

CELING FANS PER PLAN.

2.) VANITY LIGHTS TO BE SET @ 90" A.F.F. (TYP.)

REQUIRED BY CODE TO BE LOCATED BY ELECTRICIAN.

4.) PLACE SWITCHES 8" (MIN.) FROM ROUGH OPENINGS.

110 V OUTLET

110 V GFI OUTLET 👄

110 V SWITCHED OUTLET 🗢

WEATHERPROOF

220 V OUTLET 👄

220 V DEDICATED CIRCUIT

SPECIAL PURPOSE (240 V, ETC.)

SWITCH \$

TELEPHONE 🔺

DATA  $\triangle$ 

SPEAKER 110 V SMOKE/ CM DETECTOR

LOW VOLTAGE PANEL LVP ALARM PANEL ALARM



1.) BLOCK AND WIRE FOR ALL

3.) ADDITIONAL EXTERIOR OUTLETS

## ELECTRICAL LEGEND

110 V BASEBOARD OUTLET → BB

4−PLEX 🖶

COUNTER OR FLOOR MOUNTED

COUNTER OR FLOOR MOUNTED 110V GFI

110 V DEDICATED CIRCUIT 🔌

WALL MOUNT LIGHT

CEILING MOUNT LIGHT -PENDANT LIGHT -(P)-

RECESSED CAN LIGHT

MINI CAN LIGHT 🕞 EYEBALL LIGHT

FLUORESCENT LIGHT \ FLOOD LIGHT 🖒

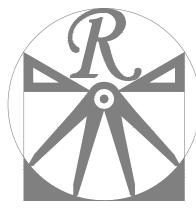
TELEPHONE AND DATA TV CONNECTION -TV

TV/ DATA 🖳 CONDUIT FOR COMPONENT WIRING

110 V SMOKE DETECTOR

EXHAUST FAN

CEILING FAN W/ LIGHT



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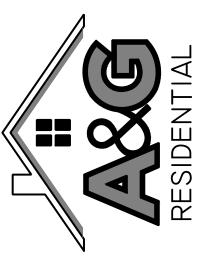
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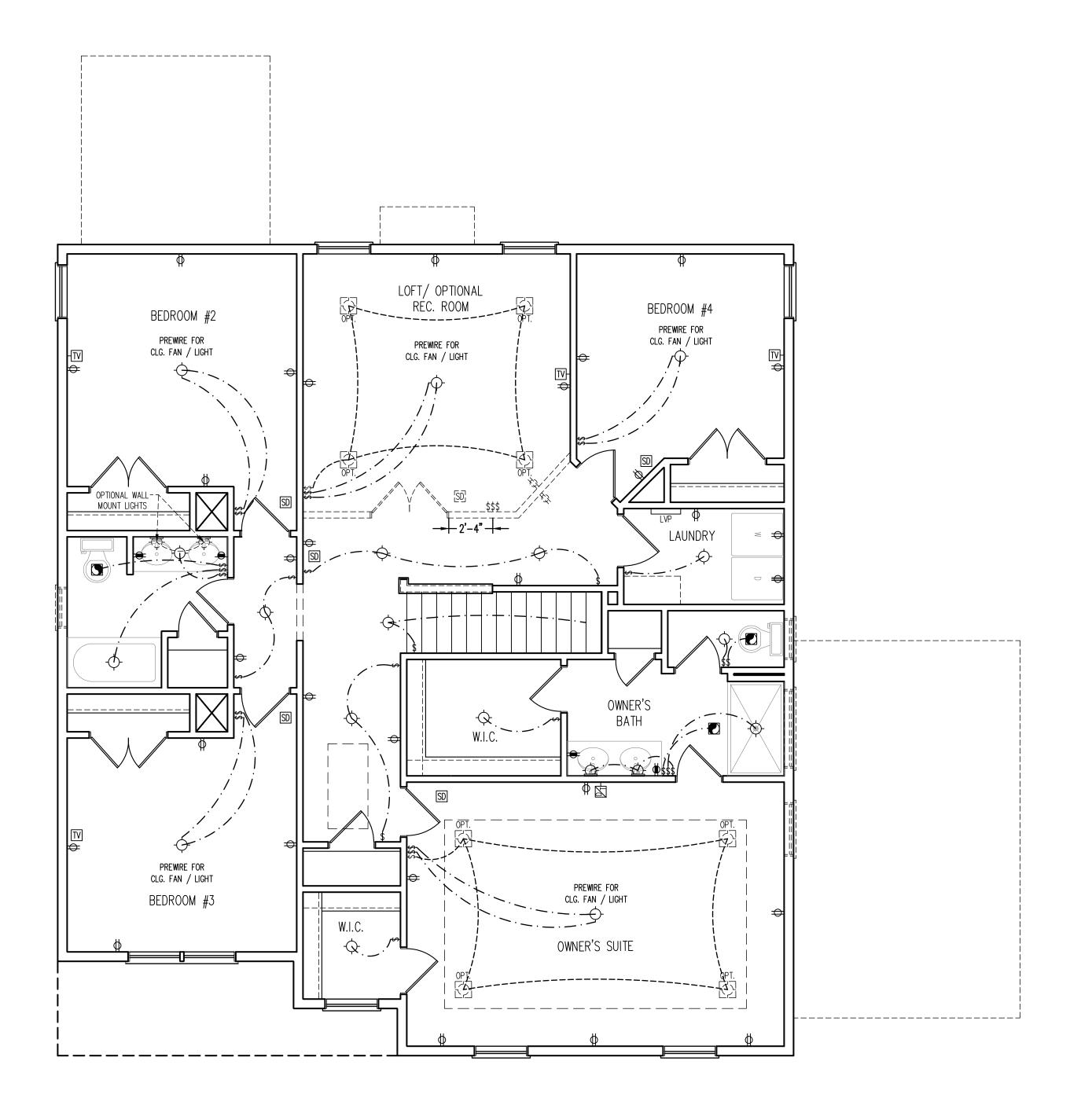
DRAWN BY: WG ENGINEERED BY: WFB

REVIEWED BY: MGS

SECOND FLOOR ELECTRICAL PLAN ELEVATION A

E-2

SECOND FLOOR ELECTRICAL
PLAN ELEVATION A



ELECTRICAL LAYOUT NOTES:

1.) BLOCK AND WIRE FOR ALL CELING FANS PER PLAN.

2.) VANITY LIGHTS TO BE SET @ 90" A.F.F. (TYP.)

3.) ADDITIONAL EXTERIOR OUTLETS REQUIRED BY CODE TO BE LOCATED BY ELECTRICIAN.

4.) PLACE SWITCHES 8" (MIN.) FROM ROUGH OPENINGS.

## ELECTRICAL LEGEND

110 V OUTLET 👄

110 V GFI OUTLET +

110 V BASEBOARD OUTLET 

→ BB

4−PLEX III

COUNTER OR FLOOR MOUNTED

COUNTER OR FLOOR MOUNTED 110V GFI

WEATHERPROOF

wp 220 V OUTLET **⇔** 

110 V DEDICATED CIRCUIT

220 V DEDICATED CIRCUIT

SPECIAL PURPOSE (240 V, ETC.)

WALL MOUNT LIGHT -

CEILING MOUNT LIGHT -P-

RECESSED CAN LIGHT

MINI CAN LIGHT 

EYEBALL LIGHT

FLUORESCENT LIGHT

UNDERCABINET LIGHT

FLOOD LIGHT \$

TELEPHONE 🛕

DATA 🛆

TELEPHONE AND DATA

TV CONNECTION

—TV

TV/ DATA - CD

CONDUIT FOR COMPONENT WIRING - CD

SPEAKER SP

110 V SMOKE/ CM DETECTOR

110 V SMOKE DETECTOR SD

EXHAUST FAN

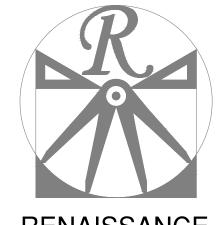
LOW VOLTAGE PANEL

ALARM PANEL

ALARM

CEILING FAN

CEILING FAN W/ LIGHT



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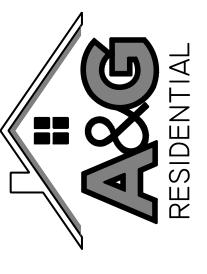
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SCALE: 1/4"=1'-0"

DRAWN BY: WG

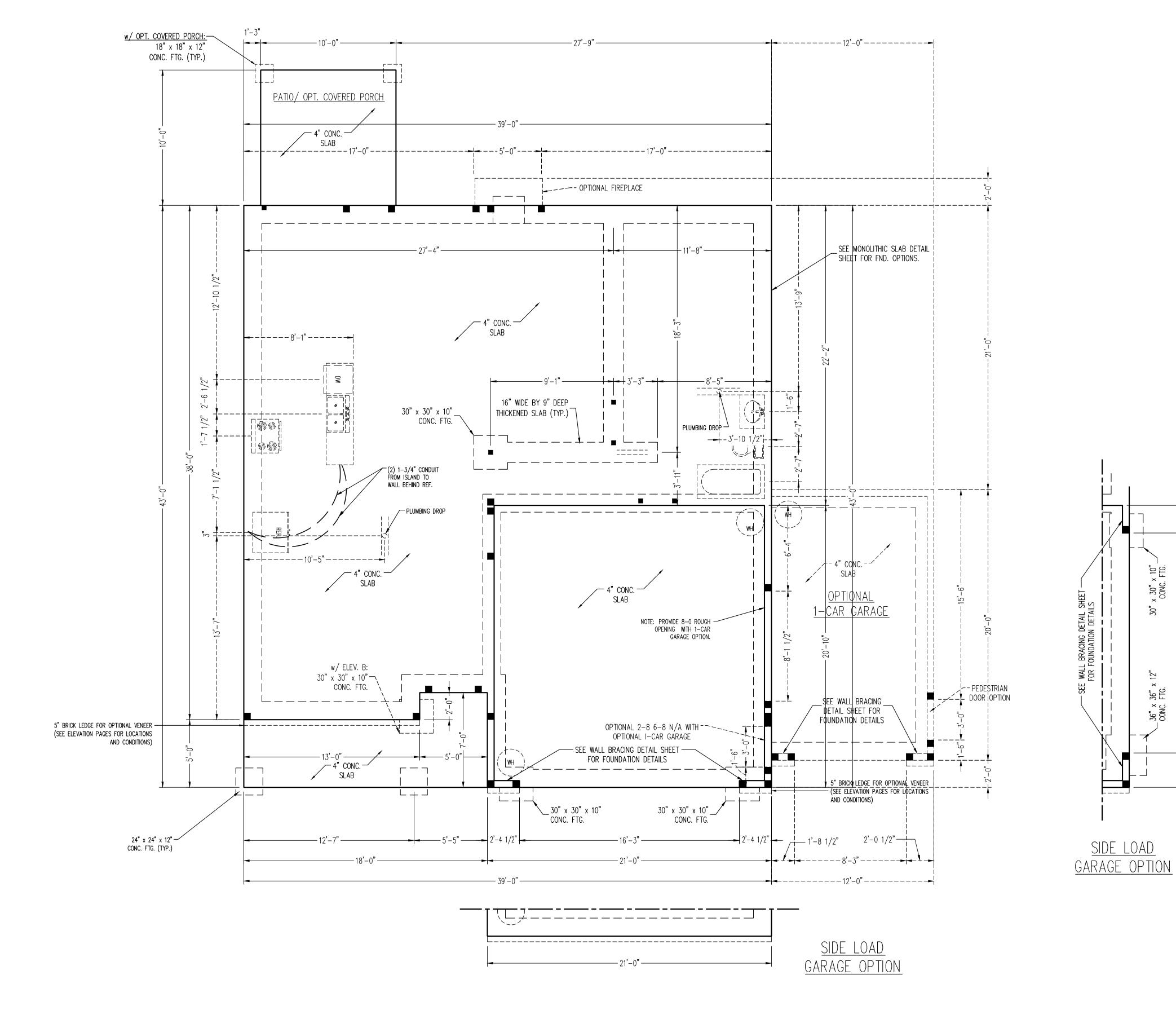
ENGINEERED BY: WFB

REVIEWED BY: MGS

SECOND FLOOR ELECTRICAL PLAN ELEVATION B

E-2.1

SECOND FLOOR ELECTRICAL
PLAN ELEVATION B



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, 2024 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" INTO MASONRY OR CONCRETE. LOCATE BOLT WITHIN
- MIDDLE THIRD OF PLATE WIDTH. . MEAN ROOF HEIGHT IS LESS THAN 30 FEET. 5. EXTERIOR WALLS DESIGNED FOR 120 MPH WINDS. 6. ROOF AND WALL CLADDING DESIGNED FOR WIND PRESSURES PER TABLE R301.2.1(1) OF THE 2024
- INSTALL 7/16" OSB SHEATHING ON ALL EXTERIOR WALLS OF ALL STORIES IN ACCORDANCE WITH SECTION R602.10 OF THE NCRC, 2024 EDITION. SEE THE WALL BRACING NOTES AND DETAILS SHEET
- FOR MORE INFORMATION. ENERGY EFFICIENCY COMPLIANCE AND INSULATION VALUES OF THE BUILDING TO BE IN ACCORDANCE WITH CHAPTER 11 OF THE NCRC, 2024 EDITION. ). REFER TO NOTES AND DETAIL SHEETS FOR

ADDITIONAL STRUCTURAL INFORMATION.

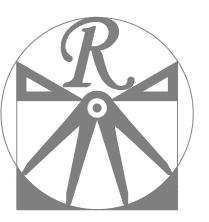
130 MPH ULTIMATE DESIGN WIND SPEED NOTES FOR LESS THAN 30' MEAN ROOF

- 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, 2024 EDITION. 3. INSTALL 1/2" ANCHOR BOLTS 4'-0" O.C. AND
- WITHIN 1'-0" FROM END OF EACH CORNER. ANCHOR BOLTS MUST EXTEND A MINIMUM OF 15" INTO MASONRY OR 7" INTO CONCRETE. LOCATE
- BOLT WITHIN MIDDLE THIRD OF PLATE WIDTH. 4. MEAN ROOF HEIGHT IS LESS THAN 30 FEET. 5. EXTERIOR WALLS DESIGNED FOR 130 MPH WINDS. 6. ROOF AND WALL CLADDING DESIGNED FOR WIND
- . INSTALL 7/16" OSB SHEATHING ON ALL EXTERIOR WALLS OF ALL STORIES IN ACCORDANCE WITH SECTION R602.10 OF THE NCRC, 2024 EDITION. SEE THE WALL BRACING NOTES AND DETAILS

PRESSURES PER TABLE R301.2.1(1) OF THE 2024

- SHEET FOR MORE INFORMATION. 8. ENERGY EFFICIENCY COMPLIANCE AND INSULATION VALUES OF THE BUILDING TO BE IN ACCORDANCE
- WITH CHAPTER 11 OF THE NCRC, 2024 EDITION. . 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 |



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DATE: DECEMBER 15, 2024

REV.: 4-1-25

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

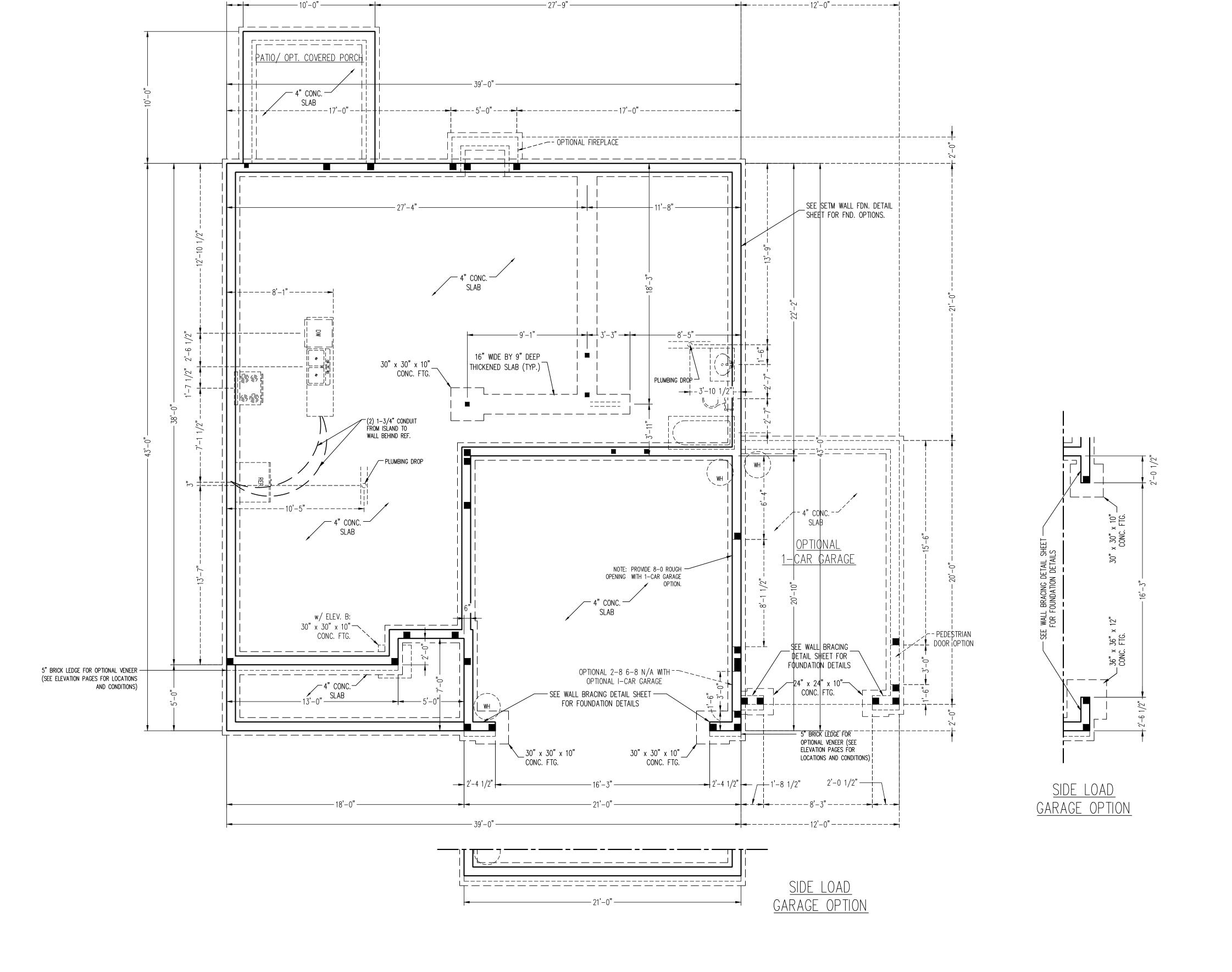
ENGINEERED BY: WFB

REVIEWED BY: MGS

MONO SLAB FOUNDATION PLAN

S-1

SLAB FOUNDATION PLAN



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, 2024 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 OR 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. ROOF AND WALL CLADDING DESIGNED FOR WIND PRESSURES PER TABLE R301.2.1(1) OF THE 2024
- INSTALL 7/16" OSB SHEATHING ON ALL EXTERIOR WALLS OF ALL STORIES IN ACCORDANCE WITH SECTION R602.10 OF THE NCRC, 2024 EDITION. SEE THE WALL BRACING NOTES AND DETAILS SHEET FOR MORE INFORMATION.
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  9. REFER TO NOTES AND DETAIL SHEETS FOR ADDITIONAL STRUCTURAL INFORMATION.

130 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
- STRUCTURAL DESIGN PER NORTH CAROLINA RESIDENTIAL CODE, 2024 EDITION.
   INSTALL 1/2" ANCHOR BOLTS 4'-0" O.C. AND WITHIN 1'-0" FROM END OF EACH CORNER.
- ANCHOR BOLTS MUST EXTEND A MINIMUM OF 15"
  INTO MASONRY OR 7" INTO CONCRETE. LOCATE
  BOLT WITHIN MIDDLE THIRD OF PLATE WIDTH.

  4. MEAN ROOF HEIGHT IS LESS THAN 30 FEET.
- PRESSURES PER TABLE R301.2.1(1) OF THE 2024 NCRC.
  7. INSTALL 7/16" OSB SHEATHING ON ALL EXTERIOR WALLS OF ALL STORIES IN ACCORDANCE WITH

5. EXTERIOR WALLS DESIGNED FOR 130 MPH WINDS.6. ROOF AND WALL CLADDING DESIGNED FOR WIND

- SECTION R602.10 OF THE NCRC, 2024 EDITION.
  SEE THE WALL BRACING NOTES AND DETAILS
  SHEET FOR MORE INFORMATION.
  8. ENERGY EFFICIENCY COMPLIANCE AND INSULATION
- VALUES OF THE BUILDING TO BE IN ACCORDANCE WITH CHAPTER 11 OF THE NCRC, 2024 EDITION.

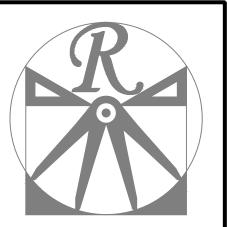
  3. REFER TO NOTES AND DETAIL SHEETS FOR

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              |

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DATE: DECEMBER 15, 2024

REV.: 4-1-25 SCALE: 1/4"=1'-0"

DRAWN BY: WG

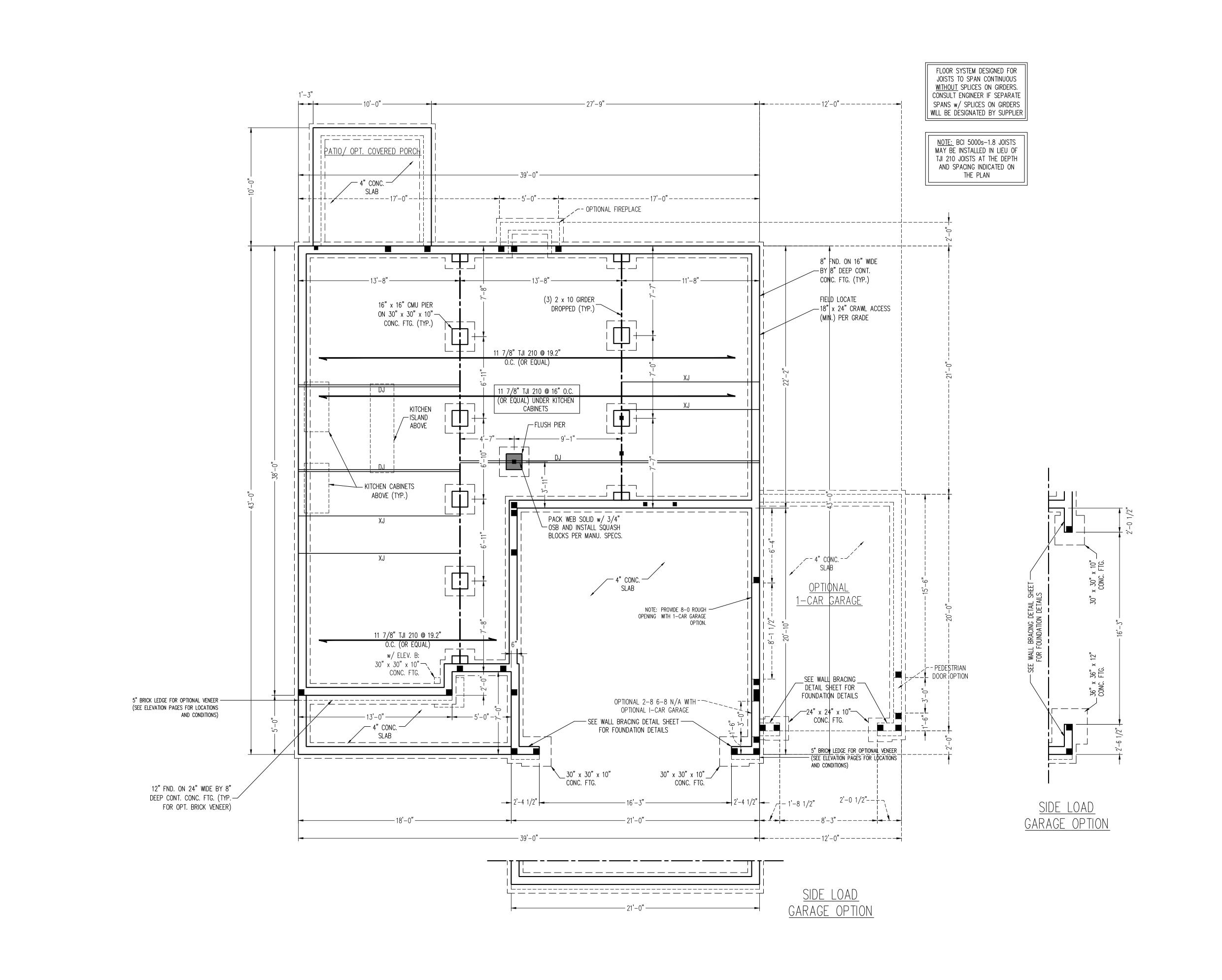
ENGINEERED BY: WFB

REVIEWED BY: MGS

STEMWALL SLAB FOUNDATION

S-1

PLAN



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
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- . ENERGY EFFICIENCY COMPLIANCE AND INSULATION VALUES OF THE BUILDING TO BE IN ACCORDANCE WITH CHAPTER 11 OF THE NCRC, 2024 EDITION. ). REFER TO NOTES AND DETAIL SHEETS FOR

ADDITIONAL STRUCTURAL INFORMATION.

130 MPH ULTIMATE DESIGN WIND SPEED NOTES FOR LESS THAN 30' MEAN ROOF

ENGINEER'S SEAL APPLIES ONLY TO STRUCTURAL

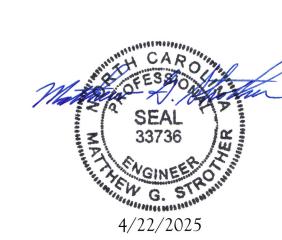
- COMPONENTS. ENGINEER'S SEAL DOES NOT CERTIFY DIMENSIONAL ACCURACY OR ARCHITECTURAL LAYOUT INCLUDING ROOF SYSTEM.
- 2. STRUCTURAL DESIGN PER NORTH CAROLINA RESIDENTIAL CODE, 2024 EDITION.
- 3. INSTALL 1/2" ANCHOR BOLTS 4'-0" O.C. AND WITHIN 1'-0" FROM END OF EACH CORNER. ANCHOR BOLTS MUST EXTEND A MINIMUM OF 15" INTO MASONRY OR 7" INTO CONCRETE. LOCATE BOLT WITHIN MIDDLE THIRD OF PLATE WIDTH.
- 4. MEAN ROOF HEIGHT IS LESS THAN 30 FEET. 5. EXTERIOR WALLS DESIGNED FOR 130 MPH WINDS. 6. ROOF AND WALL CLADDING DESIGNED FOR WIND PRESSURES PER TABLE R301.2.1(1) OF THE 2024
- . INSTALL 7/16" OSB SHEATHING ON ALL EXTERIOR WALLS OF ALL STORIES IN ACCORDANCE WITH SECTION R602.10 OF THE NCRC, 2024 EDITION. SEE THE WALL BRACING NOTES AND DETAILS
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- . REFER TO NOTES AND DETAIL SHEETS FOR ADDITIONAL STRUCTURAL INFORMATION.

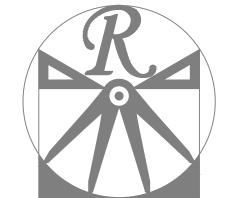
# STRUCTURAL NOTES:

- ALL FRAMING LUMBER TO BE #2 SPF (UNO). ALL TREATED LUMBER TO BE #2
- INSTALL AN EXTRA OR DOUBLE JOIST UNDER WALLS PARALLEL TO FLOOR JOISTS WHERE NOTED ON THE PLANS. 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.

|  | <br> | <br> | SHEETS<br>RMATION |   |
|--|------|------|-------------------|---|
|  |      |      |                   | _ |
|  |      |      |                   |   |

|      | 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 |





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> PHONE: (919) 789-9919 FAX: (919) 789-9921

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DATE: DECEMBER 15, 2024

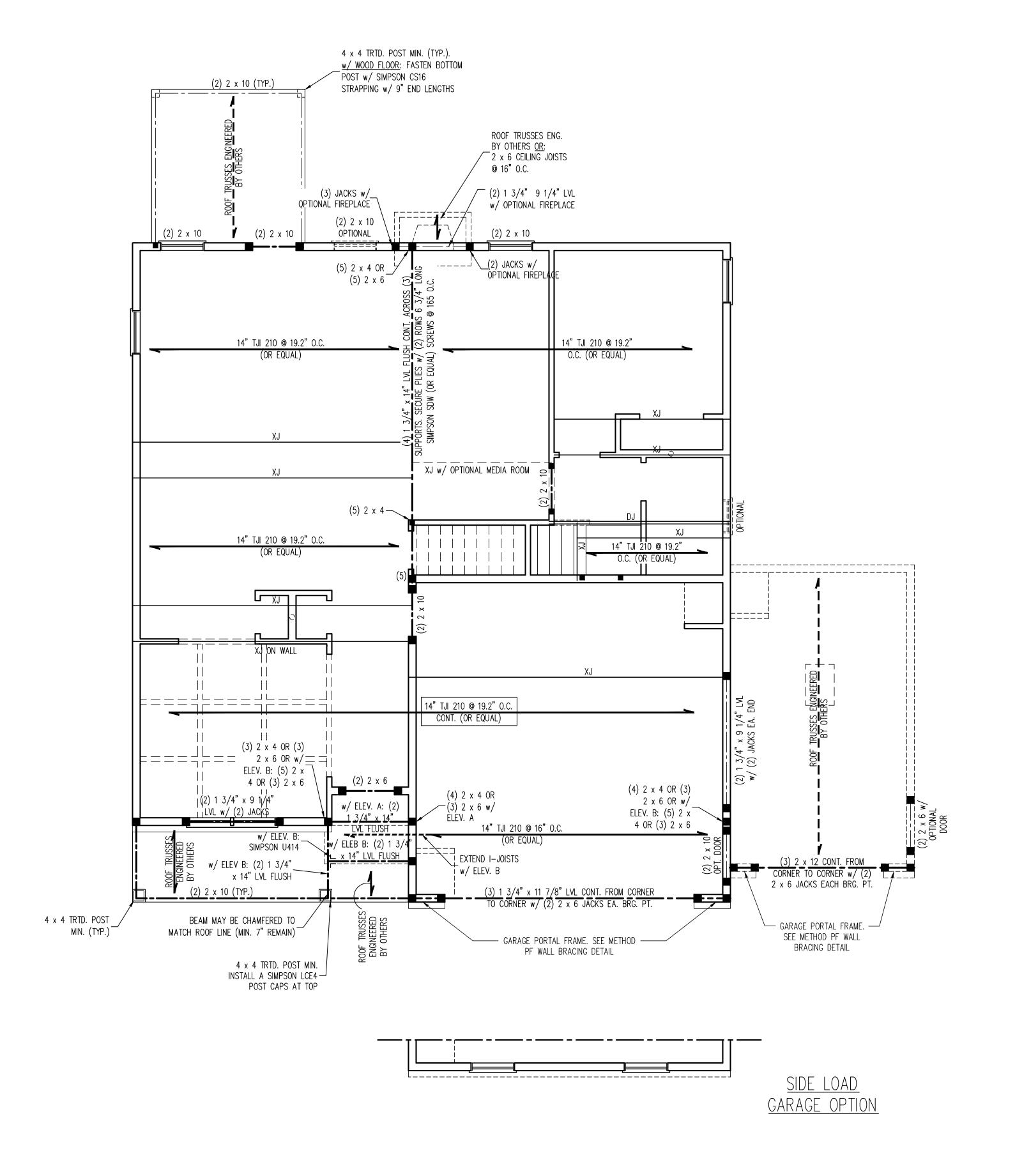
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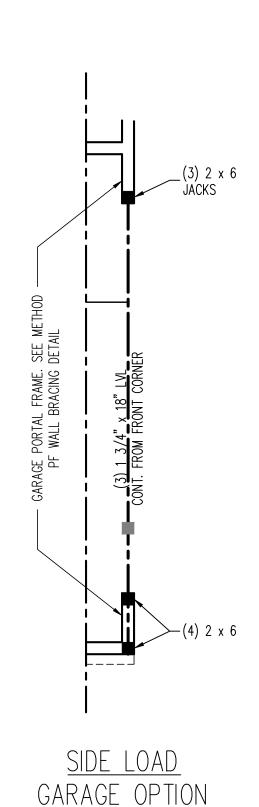
SCALE: 1/4"=1'-0"

DRAWN BY: WG ENGINEERED BY: WFB

REVIEWED BY: MGS CRAWL FOUNDATION

PLAN







#### BRACED WALL DESIGN NOTES:

- . WALL BRACING IS BY ENGINEERED DESIGN PER SECTION R301.1.3
  "ENGINEERED DESIGN" OF THE NCRC 2024 EDITION USING BRACING MATERIALS AND METHODS LISTED IN TABLE R602.10.4 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 2024 EDITION.
- 3. CS-WSP REFERS TO "CONTINUOUSLY SHEATHED WOOD STRUCTURAL PANELS." CONTRACTOR IS TO INSTALL 7/16" OSB ON ALL EXTERIOR WALLS WITH HORIZONTAL JOINTS BLOCKED. ATTACH SHEATHING w/ 8d NAILS SPACED 6" O.C. ALONG PANEL EDGES AND 12" O.C. IN THE FIELD INCLUDING TOP AND BOTTOM PLATES.
- GB REFERS TO "GYPSUM BOARD." CONTRACTOR IS TO INSTALL 1/2" (MIN.) GYPSUM BOARD ON BOTH SIDES OF WALL (UNO) 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 INCLUDING TOP AND BOTTOM PLATES. WHERE METHOD GB PANELS ARE INSTALLED HORIZONTALLY, BLOCKING OF HORIZONTAL JOINTS IS NOT REQUIRED.
- 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 2024 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 SYP #2 (UNO.)
  ALL LOAD BEARING HEADERS TO BE (2) 2 x 6 SPF #2 OR SYP #2 (KILN DRIED) (UNO). HEADERS HAVE BEEN DESIGNED BASED ON CALCULATED LOADS. CODE
- TABLES HAVE NOT BEEN USED.

  3. PROVIDE EXTRA JOIST UNDER ALL WALLS PARALLEL TO
- FLOOR JOISTS WHERE NOTED ON THE PLANS.

  4. 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.
- 5. SQUARES DENOTE POINT LOADS WHICH REQUIRE SOLID BLOCKING TO GIRDER OR FOUNDATION. ALL SQUARES TO BE (2) STUDS (UNO.)
- 6. 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.)
  7. 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.
- 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 IN 120/130 MPH WIND ZONES

| WALLS IN 120/130 WILL WIND ZONES |  |  |
|----------------------------------|--|--|
| HEADER SPAN<br>(FEET)            | MINIMUM NUMBER OF FULL<br>HEIGHT STUDS (KINGS) |  |
| UP TO 4'                         | 1  |  |
| > 4' TO 8'                       | 2  |  |
| > 8' TO 14'                      | 3  |  |
| > 14' TO 18'                     | 4  |  |
|                                  |  |  |

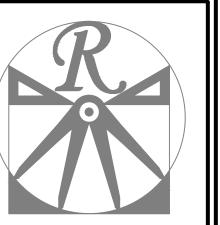
|          | LEGEND                |
|----------|-----------------------|
| CONT     | CONTINUOUS            |
| XT       | EXTRA TRUSS           |
| XJ       | EXTRA JOIST           |
| DJ       | DOUBLE JOIST          |
| TJ       | TRIPLE JOIST          |
| EA       | EACH                  |
| ( )      | 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      |
| TYP      | TYPICAL               |
| UNO      | UNLESS NOTED OTHERWIS |
| <u> </u> | <u> </u>              |

# | NOTI

BCI 5000s-1.8 JOISTS MAY BE INSTALLED IN LIEU OF TJI 210 JOISTS AT THE DEPTH AND SPACING INDICATED ON THE PLAN
 SEE SHEET D-1 FOR FLOOR TRUSS

\*NOTE: ALL EXTERIOR WALLS AND ATTIC WALLS ARE TO BE 2 x 4 @ 16" O.C. MIN. (UNO). 2 x 6 @ 24" O.C. EXTERIOR WALLS MAY BE CONSTRUCTED IN LIEU OF 2 x 4 WALLS (UNO). ALL INTERIOR LOAD BEARING WALLS ARE TO BE 2 x 4 @ 16" O.C. (UNO) AND NON-LOAD BEARING INTERIOR WALLS ARE TO BE 2 x 4 @ 24" O.C. (UNO).

ALTERNATIVE



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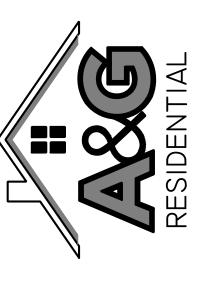
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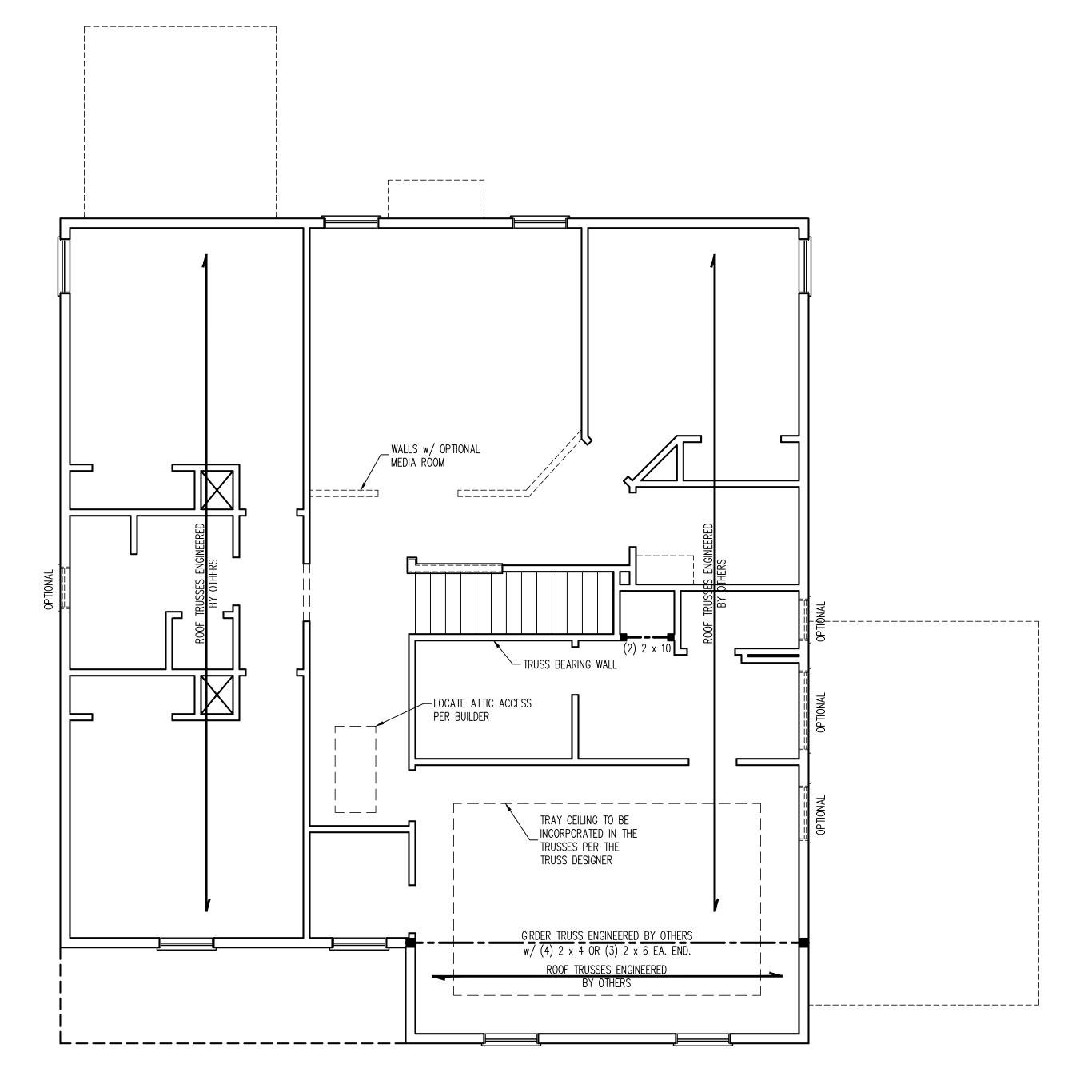
DRAWN BY: WG

ENGINEERED BY: WFB
REVIEWED BY: MGS

SECOND FLOOR FRAMING PLAN

SECOND FLOOR FRAMING PLAN

S-2



#### BRACED WALL DESIGN NOTES:

- 1. WALL BRACING IS BY ENGINEERED DESIGN PER SECTION R301.1.3
  "ENGINEERED DESIGN" OF THE NCRC 2024 EDITION USING BRACING
  MATERIALS AND METHODS LISTED IN TABLE R602.10.4 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 2024 EDITION.
- 3. CS-WSP REFERS TO "CONTINUOUSLY SHEATHED WOOD STRUCTURAL PANELS." CONTRACTOR IS TO INSTALL 7/16" OSB ON ALL EXTERIOR WALLS WITH HORIZONTAL JOINTS BLOCKED. ATTACH SHEATHING w/ 8d NAILS SPACED 6" O.C. ALONG PANEL EDGES AND 12" O.C. IN THE FIELD INCLUDING TOP AND BOTTOM PLATES.
- 4. GB REFERS TO "GYPSUM BOARD." CONTRACTOR IS TO INSTALL 1/2" (MIN.) GYPSUM BOARD ON BOTH SIDES OF WALL (UNO) 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 INCLUDING TOP AND BOTTOM PLATES. WHERE METHOD GB PANELS ARE INSTALLED HORIZONTALLY, BLOCKING OF HORIZONTAL JOINTS IS NOT REQUIRED.
- 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 2024 EDITION.
- 6. SEE NOTES AND DETAIL SHEETS FOR ADDITIONAL BRACED WALL INFORMATION.

## STRUCTURAL NOTES:

- . ALL FRAMING LUMBER TO BE #2 SPF (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.

  SQUARES DENOTE POINT LOADS WHICH REQUIRE
  SOLID BLOCKING TO GIRDER OR FOUNDATION.

  SQUARES TO BE (2) STUDS (UNO.)
- 6. 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 IN 120/130 MPH WIND ZONES

|   | HEADER SPAN<br>(FEET) | MINIMUM NUMBER OF FULL<br>HEIGHT STUDS (KINGS) |
|---|-----------------------|--|
|   | UP TO 4'              | 1  |
|   | > 4' TO 8'            | 2  |
|   | > 8' TO 14'           | 3  |
|   | > 14' TO 18'          | 4  |
| , |                       |  |

|      | LEGEND                 |
|------|------------------------|
| CONT | CONTINUOUS             |
| XT   | EXTRA TRUSS            |
| 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       |
| TYP  | TYPICAL                |
| UNO  | UNLESS NOTED OTHERWISE |
|      |                        |

\*NOTE: ALL EXTERIOR WALLS AND ATTIC WALLS ARE TO BE 2 x 4 @ 16" O.C. MIN. (UNO). 2 x 6 @ 24" O.C. EXTERIOR WALLS MAY BE CONSTRUCTED IN LIEU OF 2 x 4 WALLS (UNO). ALL INTERIOR LOAD BEARING WALLS ARE TO BE 2 x 4 @ 16" O.C. (UNO) AND NON-LOAD BEARING INTERIOR WALLS ARE TO BE 2 x 4 @ 24" O.C. (UNO).





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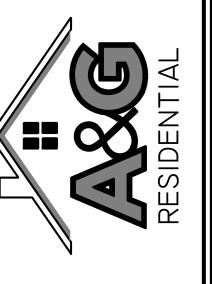
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DATE: DECEMBER 15, 2024

REV.: 4-1-25

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

DRAWN BY: WG

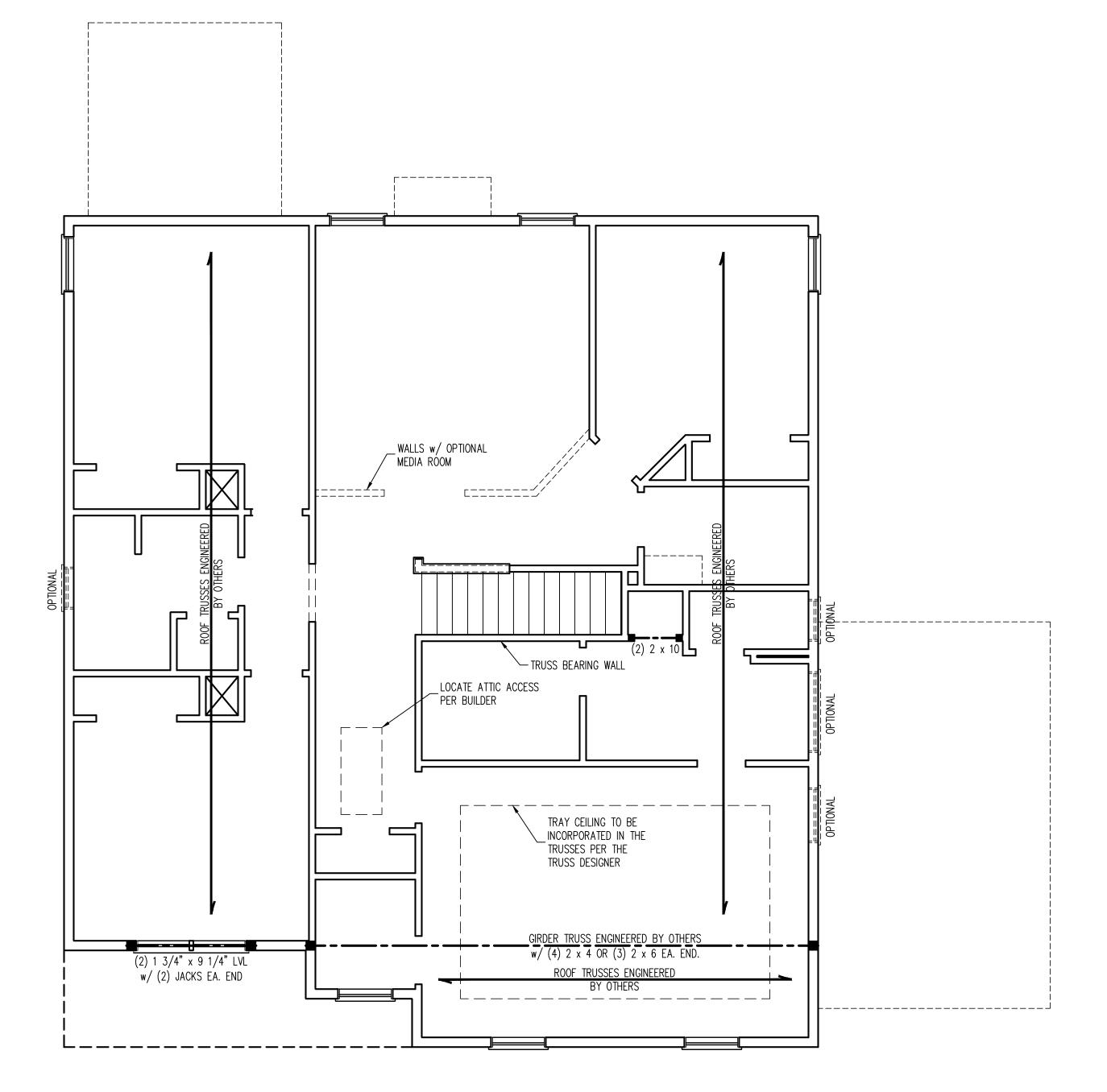
ENGINEERED BY: WFB

REVIEWED BY: MGS

ATTIC FLOOR FRAMING PLAN

ELEVATION A

ATTIC FLOOR FRAMING
PLAN ELEVATION A



#### BRACED WALL DESIGN NOTES:

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## STRUCTURAL NOTES:

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  5. 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 IN 120/130 MPH WIND ZONES

| HEADER SPAN<br>(FEET) | MINIMUM NUMBER OF FULL<br>HEIGHT STUDS (KINGS) |
|-----------------------|--|
| UP TO 4'              | 1  |
| > 4' TO 8'            | 2  |
| > 8' TO 14'           | 3  |
| > 14' TO 18'          | 4  |
|                       |  |

|      | LEGEND                 |
|------|------------------------|
| CONT | CONTINUOUS             |
| XT   | EXTRA TRUSS            |
| 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       |
| TYP  | TYPICAL                |
| UNO  | UNLESS NOTED OTHERWISE |

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DATE: DECEMBER 15, 2024

REV.: 4-1-25

SCALE: 1/4"=1'.0

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

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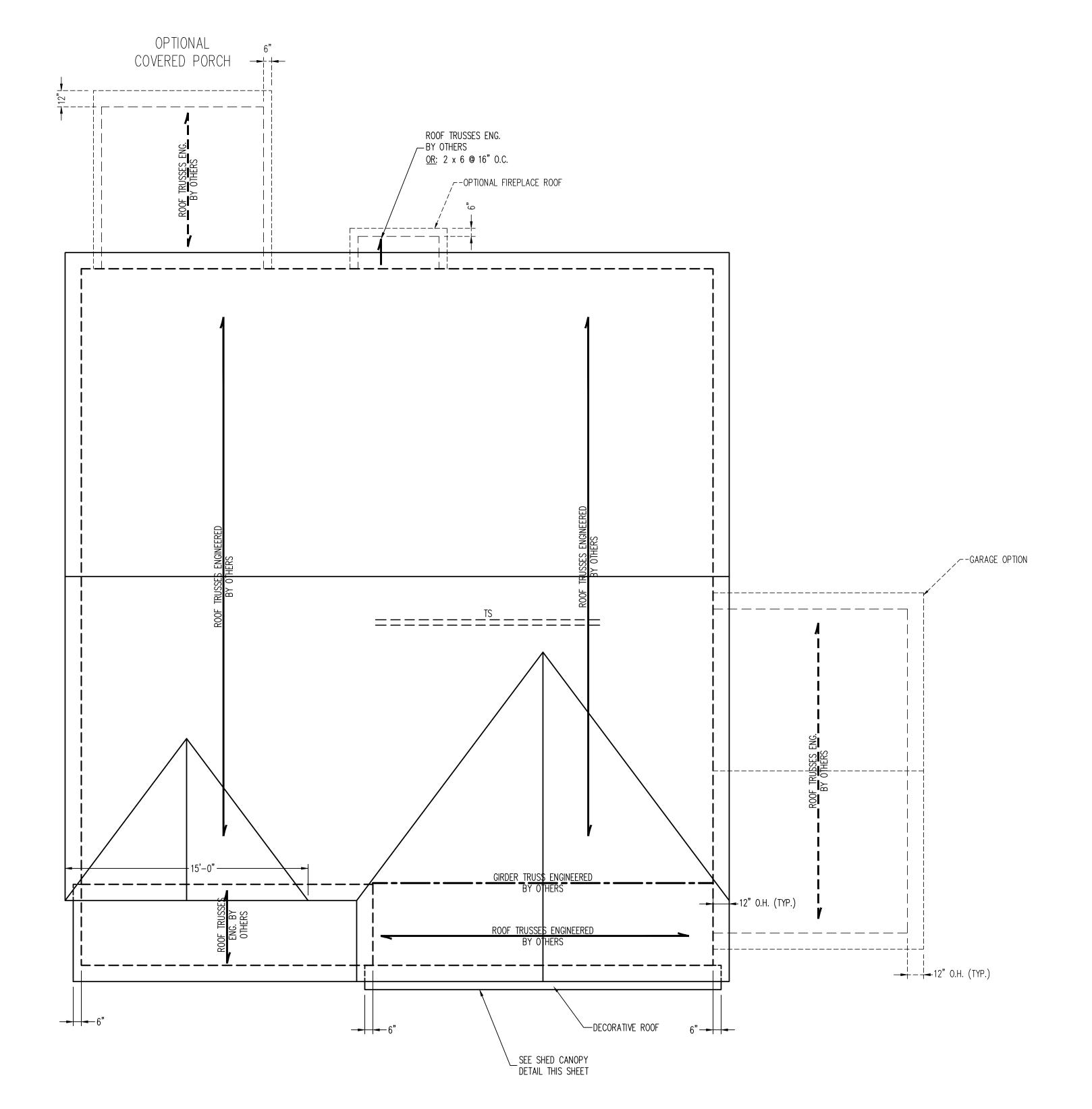
ENGINEERED BY: WFB

REVIEWED BY: MGS

ATTIC FLOOR FRAMING PLAN ELEVATION B

S-3.1

ATTIC FLOOR FRAMING
PLAN ELEVATION B



STRUCTURAL NOTES:

- 1. 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
- 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 2024 NCRC FOR REQUIRED UPLIFT RESISTANCE AT RAFTERS
- AND TRUSSES.

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

INSTALL 2 x 10 BLOCKING AS

REQUIRED. FASTEN w/ (4) 12d— NAILS EA. END (TYP.)

ATTACH 2 x 10 BAND TO

ATTACH 2 x 10 BAND TO

BLOCKING w/ 1/2" DIA. x 3 1/2"-

LONG LAG SCREWS @ 16" O.C.

BLOCKING w/ 1/2" DIA. x 3 1/2" — LONG LAG SCREWS @ 16" O.C.

INSTALL 2 x 10 BLOCKING AS

REQUIRED. FASTEN w/ (4) 12d —
NAILS EA. END (TYP.)

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

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

SIMPSON L50 ANGLE EA. SIDE OF RAFTER

∕−2 x 6 RAFTER

<sup>1</sup> 2 x 8 CEILING JOIST

──SIMPSON LUS28

ATTACH RAFTER
TO CEILING JOIST
w/ (6) 12d NAILS



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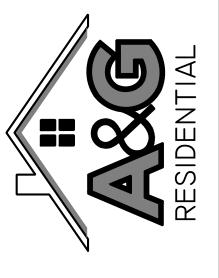
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DATES SEAL SCALE S

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

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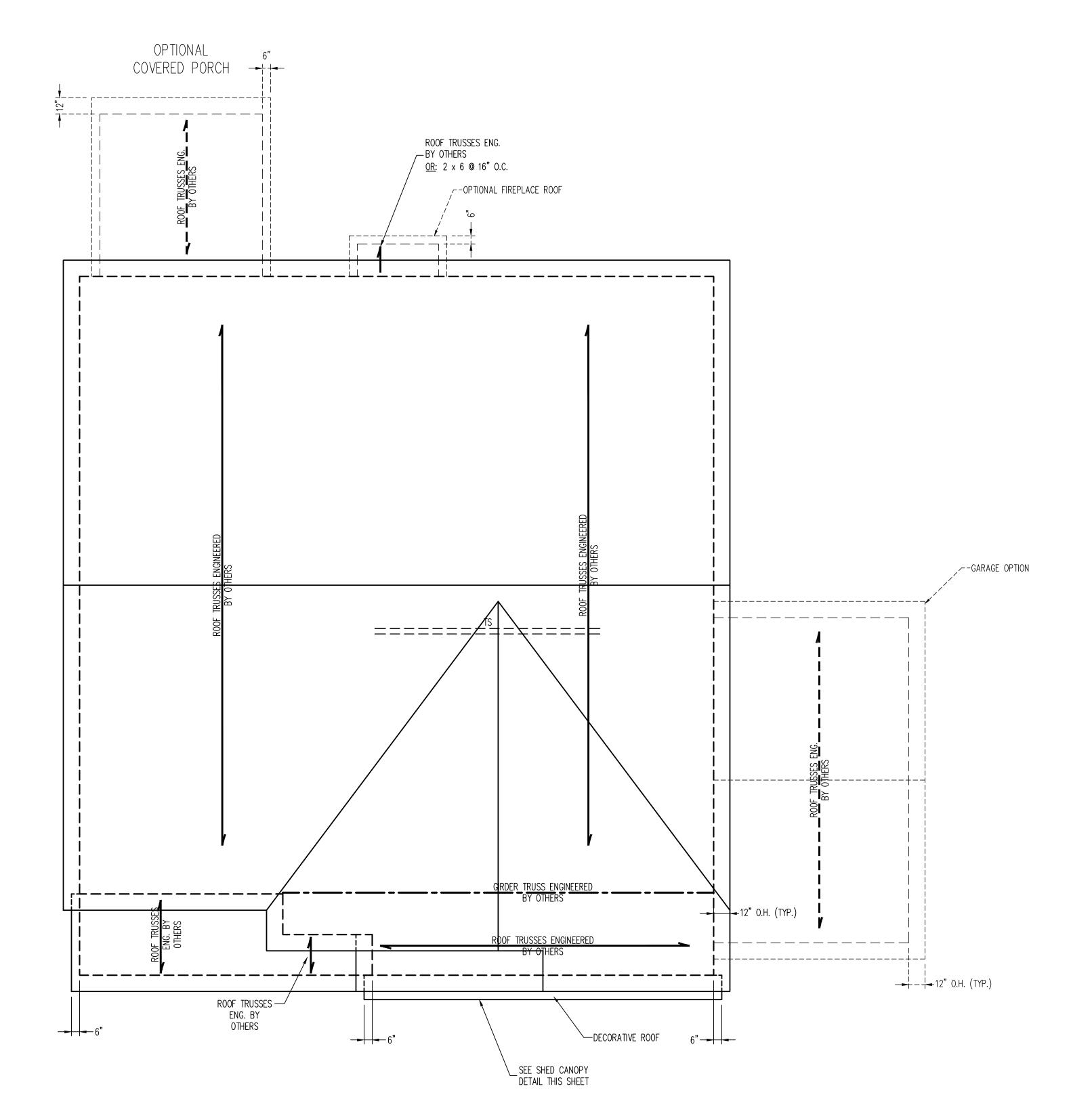
ENGINEERED BY: WFB

REVIEWED BY: MGS

ROOF PLAN ELEVATION- A

S-4

ROOF PLAN ELEVATION A





- 1. 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.
- 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 2024 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                 |
|------|------------------------|
| XR   | EXTRA RAFTER           |
| XT   | EXTRA TRUSS            |
| DR   | DOUBLE RAFTER          |
| TR   | TRIPLE RAFTER          |
| RS   | RAFTER SUPPORT         |
| TS   | TRUSS SUPPORT          |
| CONT | CONTINUOUS             |
| EA   | EACH                   |
| OC   | ON CENTER              |
| SPF  | SPRUCE PINE FIR        |
| SYP  | SOUTHERN YELLOW PINE   |
| TYP  | TYPICAL                |
| UNO  | UNLESS NOTED OTHERWISE |
|      |                        |

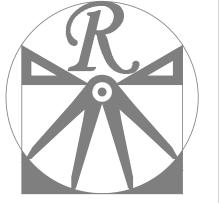
SIMPSON L50 ANGLE EA. SIDE OF RAFTER

∕−2 x 6 RAFTER

<sup>1</sup> 2 x 8 CEILING JOIST

──SIMPSON LUS28

ATTACH RAFTER
TO CEILING JOIST
w/ (6) 12d NAILS



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A&G RESIDENTIAL SOPHIA

SEAL 33736

SEAL 33736

A/22/2025

INSTALL 2 x 10 BLOCKING AS

REQUIRED. FASTEN w/ (4) 12d— NAILS EA. END (TYP.)

ATTACH 2 x 10 BAND TO
BLOCKING w/ 1/2" DIA. x 3 1/2" —
LONG LAG SCREWS @ 16" O.C.

ATTACH 2 x 10 BAND TO BLOCKING w/ 1/2" DIA. x 3 1/2" LONG LAG SCREWS @ 16" O.C.

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DATE: DECEMBER 15, 2024

REV.: 4-1-25

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

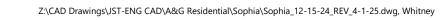
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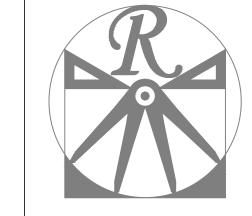
ENGINEERED BY: WFB
REVIEWED BY: MGS

ROOF PLAN ELEVATION- B

S-4.1

ROOF PLAN ELEVATION B





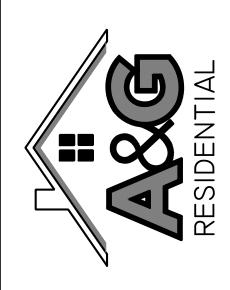
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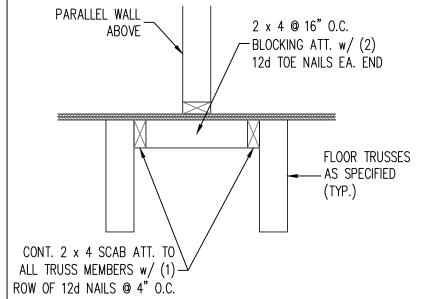
ENGINEERED BY: WFB REVIEWED BY: MGS

FLOOR TRUSS

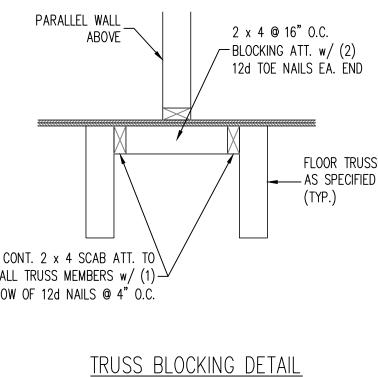
ALTERNATIVE

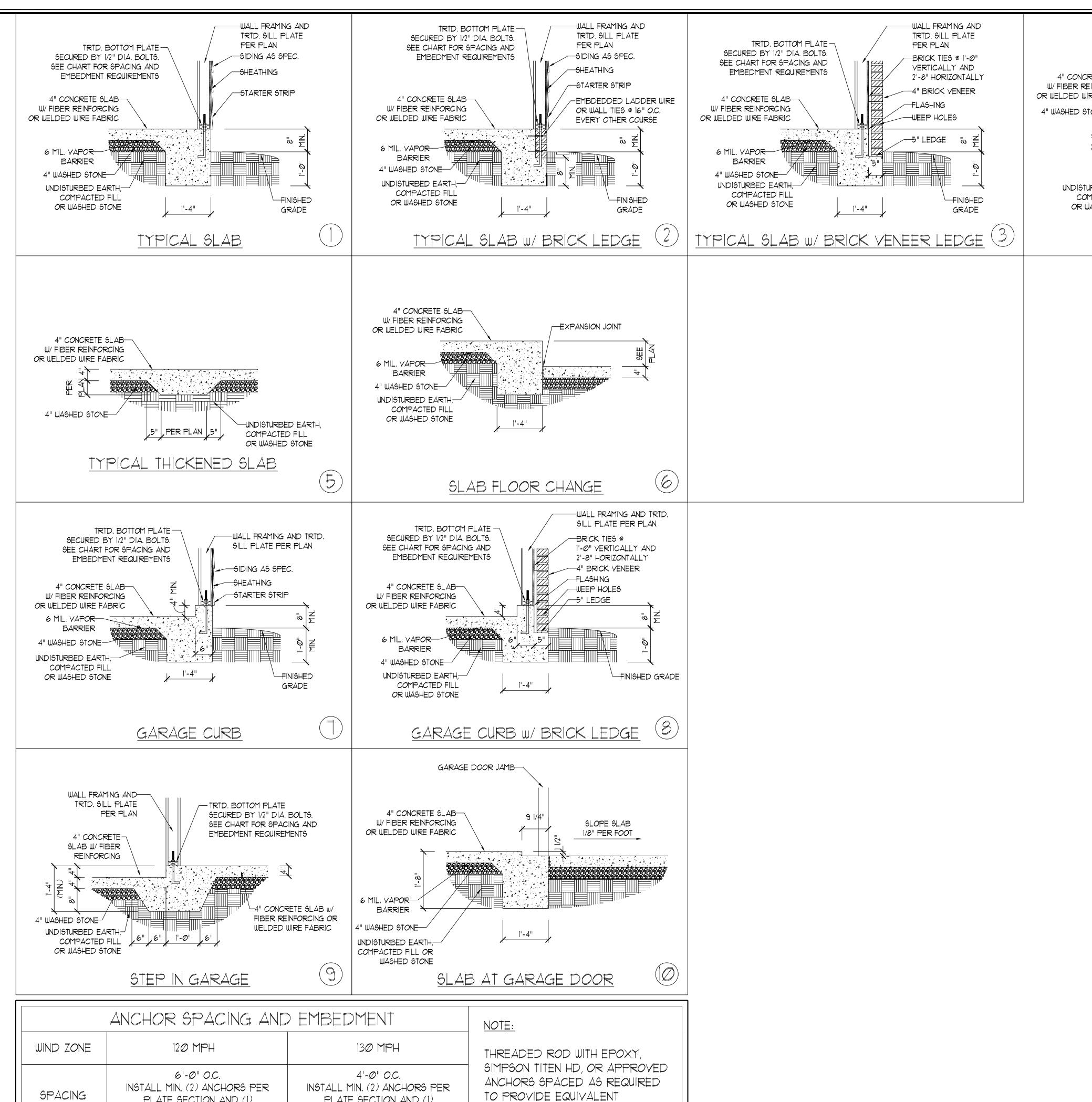






- 1. FLOOR TRUSSES ENGINEERED BY OTHERS AT THE DEPTH INDICATED ON THE PLAN MAY BE USED IN LIEU OF I-JOISTS.
- 2. FIRST FLOOR SYSTEM TRUSSES ARE TO BE DESIGNED TO SUPPORT ADDITIONAL LOADING FROM OFFSET LOAD AND ISLAND. FLOOR TRUSSES 3. AT POINT LOADS WITHIN OFFSET LOADS,
  - INSTALL (2) 2 x 12 BLOCKING BETWEEN TRUSSES w/ FACE MOUNT HANGERS AT EA. END. 4. GIRDER TRUSSES ENGINEERED BY OTHERS
  - ARE TO BE INSTALLED IN LIEU OF DOUBLE JOISTS SPECIFIED PER PLAN.
  - 5. PROVIDE (1) LSL RIM BOARD MATCHING DEPTH OF FLOOR TRUSSES AT END OF CANT w/ EXTRA TRUSSES AT SIDES.
  - 6. 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.





ANCHORAGE TO 1/2" DIAMETER

LIEU OF 1/2" ANCHOR BOLTS.

ANCHOR BOLTS MAY BE USED IN

PLATE SECTION AND (1)

ANCHOR WITHIN 12" OF CORNERS

7"

EMBEDMENT

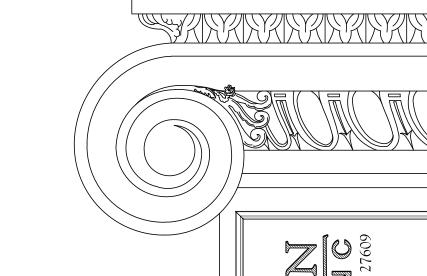
PLATE SECTION AND (1)

ANCHOR WITHIN 12" OF CORNERS

15" INTO MASONRY

7" INTO CONCRETE

-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



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DETAILS

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#### MASONRY STEMWALL SPECIFICATIONS MASONRY WALL TYPE WALL HEIGHT 4" BRICK AND 4" BRICK AND 8" CMU 12" CMU 2 AND UNGROUTED GROUT SOLID UNGROUTED UNGROUTED BELOW GROUT SOLID UNGROUTED UNGROUTED UNGROUTED GROUT SOLID w/ #4 GROUT SOLID w/ #4 GROUT SOLID w/ #4 GROUT SOLID REBAR @ 64" O.C. REBAR @ 48" O.C. REBAR @ 64" O.C. GROUT SOLID w/ #4 GROUT SOLID w/ #4 GROUT SOLID w/ #4 NOT APPLICABLE REBAR @ 36" O.C. REBAR @ 64" O.C. REBAR @ 36" O.C. 6 AND ENGINEERED DESIGN BASED ON SITE CONDITIONS GREATER

## STRUCTURAL NOTES:

- 1) 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 W/ GREATER THAN 3' OF FILL AS MEASURED FROM THE TOP OF THE FOOTING. 4) BACKFILL OF CLEAN #51 / #61 WASHED STONE IS ALLOWABLE
- 5) BACKFILL OF WELL DRAINED OR SAND GRAYEL MIXTURE SOILS (45 PSF/FT BELOW GRADE) CLASSIFIED AS GROUP I ACCORDING TO UNIFIED SOILS CLASSIFICATION SYSTEM IN ACCORDANCE WITH TABLE R405.1 OF THE 2024 NORTH CAROLINA RESIDENTIAL CODE ARE ALLOWABLE
- 6) PREP SLAB PER <u>R506.2.1</u> AND <u>R506.2.2</u> BASE AND <u>EXCEPTION</u> OF 2024 NORTH CAROLINA RESIDENTIAL CODE.
- 1) MINIMUM 24" LAP SPLICE LENGTH.

WALL FRAMING AND TRTD.

-LADDER WIRE

EVERY OTHER

(4)

COURSE

- 8) LOCATE REBAR IN CENTER OF FOUNDATION WALL.
- 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.

5

# WALL FRAMING AND TRID. BRICK TIES @ SILL PLATE PER PLAN 2'-8" HORIZONTALLY TRTD. BOTTOM PLATE -SECURED BY 1/2" DIA. BOLTS. -4" BRICK VENEER SEE CHART FOR SPACING AND EMBEDMENT REQUIREMENTS -FLASHING

4" CONCRETE SLAB-

W/ FIBER REINFORCING

6 MIL. VAPOR-

UNDISTURBED EARTH;

COMPACTED FILL

OR WASHED STONE

TOP TWO COURSES OF STEM WALL AND-

ALL CELLS W/ REINFORCEMENT TO BE

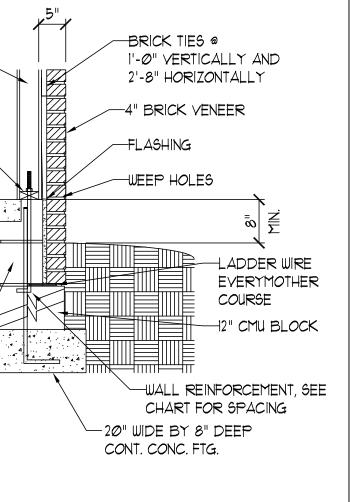
FILLED SOLID.

BARRIER

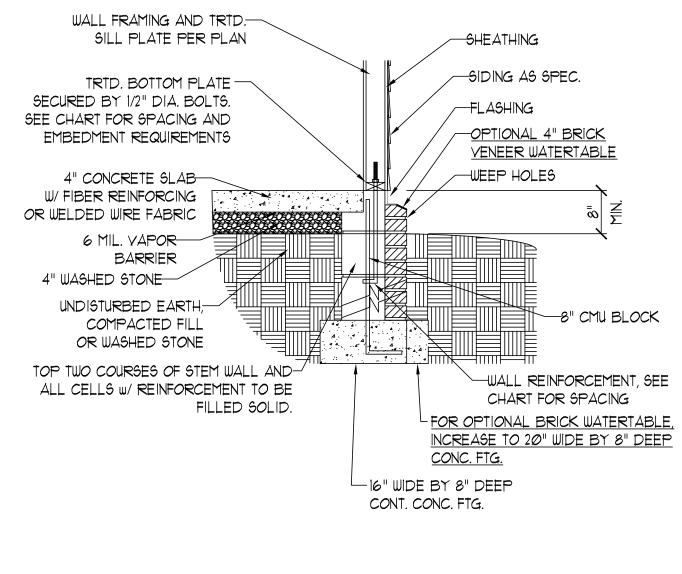
OR WELDED WIRE FABRIC

4" WASHED STONE

STEM WALL FDN. DETAIL

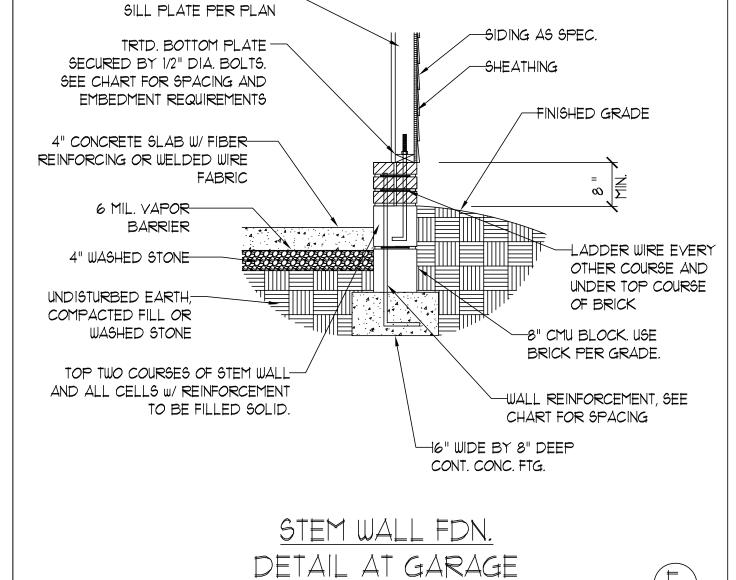


STEM WALL FDN. W/ BRICK DETAIL



STEM WALL FDN. W/ BRICK AND CURB (2)

STEM WALL FDN. W/ OPTIONAL BRICK WATERTABLE DETAIL

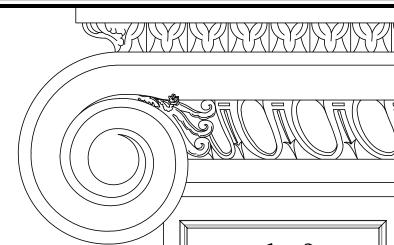




| _ |           |   |  |  |
|---|-----------|---|--|--|
|   |           | ANCHOR SPACING AND  | EMBEDMENT  | NOTE:                                  |
|   | WIND ZONE | 120 MPH   | 130 MPH  | THREAD                                 |
|   | SPACING   | 6'-0" O.C.<br>INSTALL MIN. (2) ANCHORS PER<br>PLATE SECTION AND (1)<br>ANCHOR WITHIN 12" OF CORNERS | 4'-0" O.C. INSTALL MIN. (2) ANCHORS PER PLATE SECTION AND (1) ANCHOR WITHIN 12" OF CORNERS | SIMPSON<br>ANCHOR<br>TO PROY<br>ANCHOR |
|   | EMBEDMENT | 7"  | 15" INTO MASONRY<br>7" INTO CONCRETE   | LIEU OF                                |

DED ROD WITH EPOXY ON TITEN HD, OR APPROVED DRS SPACED AS REQUIRED OVIDE EQUIVALENT PRAGE TO 1/2" DIAMETER OR BOLTS MAY BE USED IN 1/2" ANCHOR BOLTS.

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STEM WALI FOUNDATION DE

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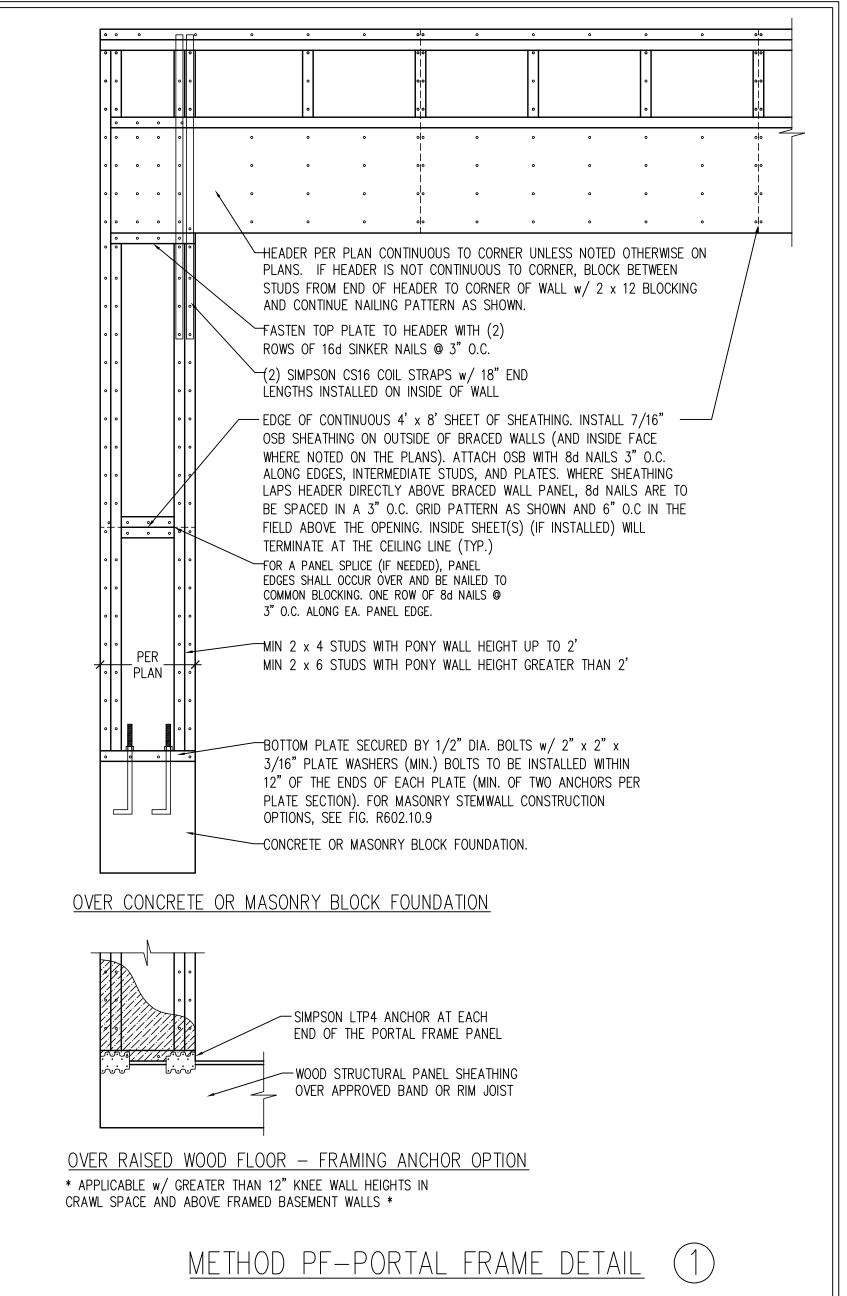
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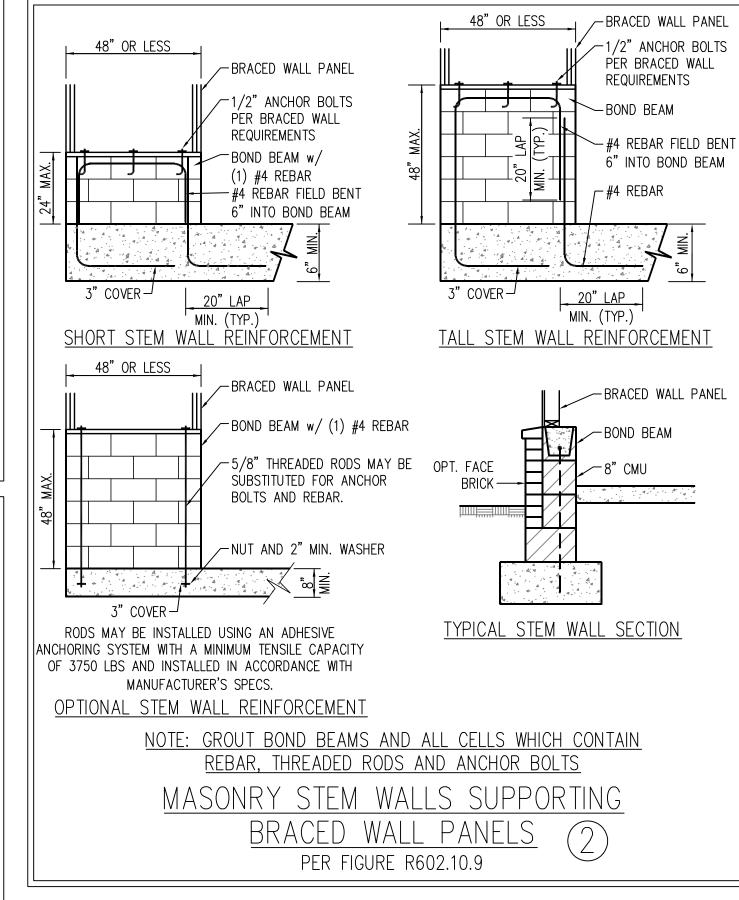
FOUNDATION DETAILS

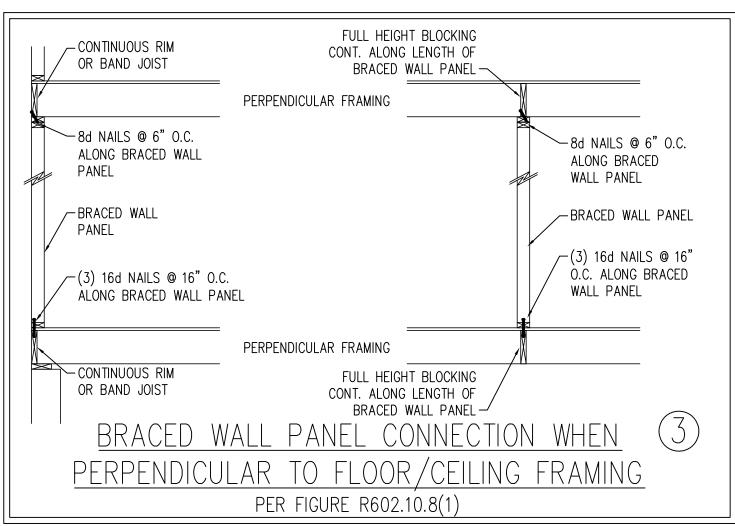
- 1. WALL BRACING IS BY ENGINEERED DESIGN PER SECTION R301.1.3 "ENGINEERED DESIGN" OF THE NCRC 2024 EDITION USING BRACING MATERIALS AND METHODS LISTED IN TABLE R602.10.4 ALONG WITH ALTERNATIVE MATERIALS AND METHODS THAT COMPLY WITH ACCEPTED ENGINEERING PRACTICE. BRACED WALL DESIGN IS NOT PRESCRIPTIVE.
- SEE THIS SHEET FOR GENERAL DETAILS. REFER TO THE 2024 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
- 4. SEE STRUCTURAL SHEETS FOR HOLD DOWN TYPE AND LOCATIONS WHERE REQUIRED AND ANY SPECIAL NOTES OR REQUIREMENTS.
  5. ALL EXTERIOR WALLS ARE TO BE SHEATHED WITH CS-WSP IN ACCORDANCE WITH SECTION R602.10 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 R602.10.4

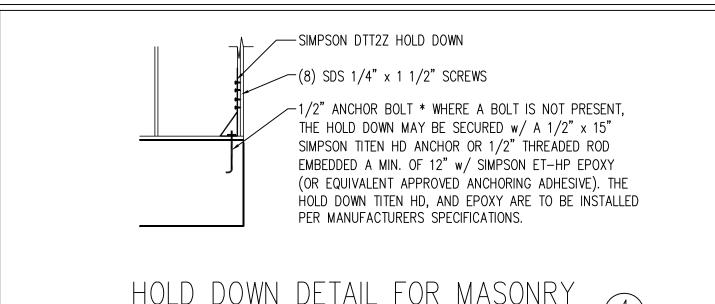
FORCES IN ACCORDANCE WITH ACCEPTED ENGINEERED PRACTICE.

- 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 WITH JOINTS BLOCKED. ATTACH SHEATHING 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.).
- 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). WHERE METHOD GB PANELS ARE INSTALLED HORIZONTALLY, BLOCKING OF HORIZONTAL JOINTS IS NOT REQUIRED. EXTERIOR GB TO BE INSTALLED VERTICALLY.

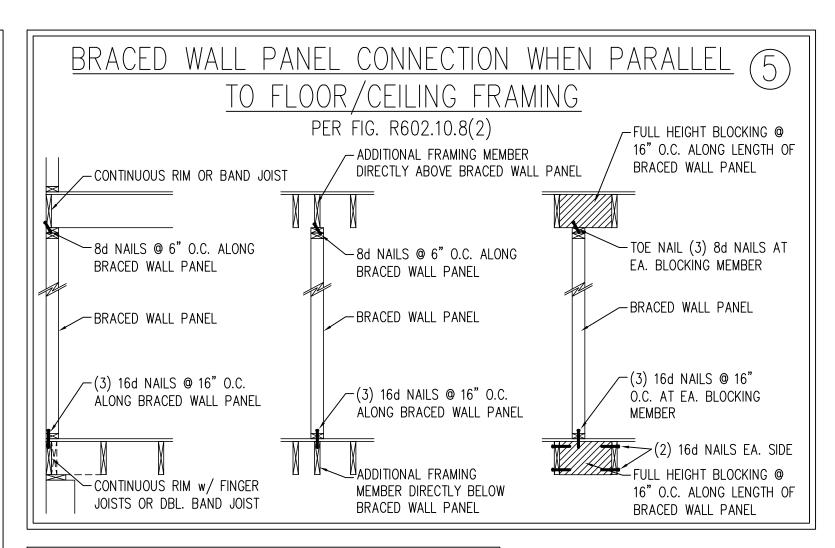


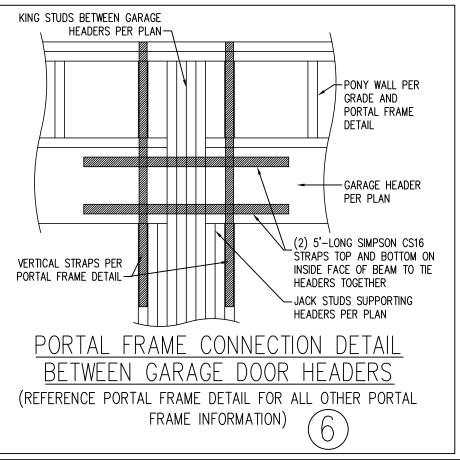


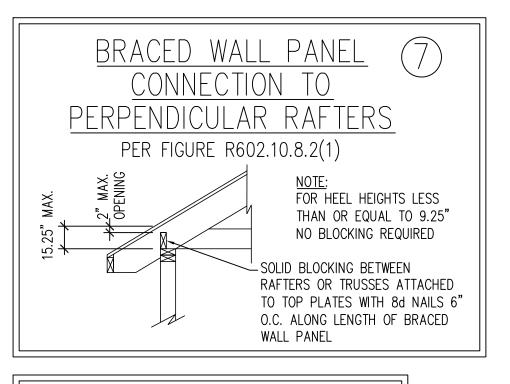


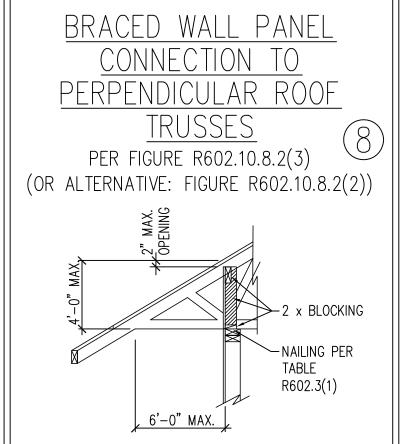


HOLD DOWN DETAIL FOR MASONRY
FOUNDATION OR MONOLITHIC SLAB
\* APPLICABLE ONLY WHERE SPECIFIED ON PLAN \*











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ENGINEIRO RALEIGH, NC 27609

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WALL BRACING NOTES AND DETAILS

DATE: NOVEMBER 1, 2024

SCALE: NOT TO SCALE

DRAWN BY: JST

ENGINEERED BY: JST

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BRACED WALL NOTES AND DETAILS AND PF DETAIL

#### 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
- 8. ALL CONCRETE AND MASONRY FOUNDATION WALLS ARE TO BE CONSTRUCTED IN ACCORDANCE WITH THE PROVISIONS OF SECTION R404 OF THE NCRC, 2024 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, 2024 EDITION. CONCRETE FOUNDATION WALLS ARE TO BE REINFORCED PER TABLE R404.1.2(8) OF THE NCRC, 2024 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 A. W AND WT SHAPES: ASTM A992 CHANNELS AND ANGLES: ASTM A36

PLATES AND BARS: ASTM A36 HOLLOW STRUCTURAL SECTIONS: ASTM A500 GRADE B 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):

(2) 1/2" DIA. x 4" LONG LAG SCREWS A. WOOD FRAMING (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, 2024 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, 2024 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.
- 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 STRUCTURAL

10. BRACED WALL PANELS SHALL BE CONSTRUCTED ACCORDING TO THE NORTH CAROLINA RESIDENTIAL CODE 2024 EDITION WALL BRACING CRITERIA. THE AMOUNT, LENGTH, AND

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.

PLAN. INSTALL BLOCKING BETWEEN JOISTS OR TRUSSES FOR POINT LOAD SUPPORT FOR ALL POINT LOADS ALONG OFFSET LOAD LINES.

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).

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, 2024 EDITION.

- 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 TO WOOD FRAMING WITH SIMPSON CS16 COIL STRAPPING WITH 9" END LENGTHS OR (2) 6" LONG SIMPSON SDS SCREWS (OR EQUAL) DRIVEN AT AN ANGLE FROM OPPOSITE SIDES. FOR MASONRY OR CONCRETE FOUNDATION USE SIMPSON POST BASE.
- 16. CONSTRUCT ALL WOOD DECKS ACCORDING TO CHAPTER 47-WOOD DECKS.
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# <u>GENERAL NOTES</u>

- 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), 2024 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, 2024 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

# CLADDING DESIGNED FOR:

SEISMIC DESIGN CATEGORY:

| 120 MPH WIND ZONE      |              |                        |                        |  |
|------------------------|--------------|------------------------|------------------------|--|
|                        |              | POS. (PSF)<br>PRESSURE | NEG. (PSF)<br>PRESSURE |  |
| GABLE ROOF<br>CLADDING | FLAT ROOF    | + 6.3                  | - 44.5                 |  |
|                        | 2.25 TO 5/12 | + 9.6                  | - 49.8                 |  |
|                        | 5 TO 7/12    | + 11.6                 | - 41.9                 |  |
|                        | 7 TO 12/12   | + 14.2                 | - 35.3                 |  |
| HIP ROOF<br>CLADDING   | 2.25 TO 5/12 | + 11.6                 | - 36.6                 |  |
|                        | 5 TO 7/12    | + 11.6                 | - 28.7                 |  |
|                        | 7 TO 12/12   | + 11.1                 | - 35.6                 |  |
| WALL CLADDING          |              | + 15.5                 | - 20.8                 |  |

|                        | 130 MPH WIND | ZONE                   |                        |
|------------------------|--------------|------------------------|------------------------|
|                        |              | POS. (PSF)<br>PRESSURE | NEG. (PSF)<br>PRESSURE |
| GABLE ROOF<br>CLADDING | FLAT ROOF    | + 7.4                  | - 52.2                 |
|                        | 2.25 TO 5/12 | + 11.3                 | - 58.4                 |
|                        | 5 TO 7/12    | + 13.6                 | - 49.2                 |
|                        | 7 TO 12/12   | + 16.7                 | - 41.4                 |
| HIP ROOF<br>CLADDING   | 2.25 TO 5/12 | + 13.6                 | - 43                   |
|                        | 5 TO 7/12    | + 13.6                 | - 33.7                 |
|                        | 7 TO 12/12   | + 13                   | - 41.7                 |
| WALL CLADDING          |              | + 18.2                 | - 24.4                 |

|  |                        | 140 MPH WII  | ND ZONE                |                        |
|--|------------------------|--------------|------------------------|------------------------|
|  |                        |              | POS. (PSF)<br>PRESSURE | NEG. (PSF)<br>PRESSURE |
|  |                        | FLAT ROOF    | + 8.6                  | - 60.6                 |
|  | GABLE ROOF             | 2.25 TO 5/12 | + 13.1                 | - 67.8                 |
|  | GABLE ROOF<br>CLADDING | 5 TO 7/12    | + 15.8                 | - 57                   |
|  |                        | 7 TO 12/12   | + 19.4                 | - 48                   |
|  | HIP ROOF<br>CLADDING   | 2.25 TO 5/12 | + 15.8                 | - 49.8                 |
|  |                        | 5 TO 7/12    | + 15.8                 | - 39.1                 |
|  | OLNODINO               | 7 TO 12/12   | + 15.1                 | - 48.4                 |
|  | WALL CLADDING          |              | + 21.1                 | - 28.3                 |

|                        | 150 MPH WI   | ND ZONE                |                        |
|------------------------|--------------|------------------------|------------------------|
|                        |              | POS. (PSF)<br>PRESSURE | NEG. (PSF)<br>PRESSURE |
| GABLE ROOF<br>CLADDING | FLAT ROOF    | + 9.9                  | - 69.6                 |
|                        | 2.25 TO 5/12 | + 15                   | - 77.8                 |
|                        | 5 TO 7/12    | + 18.1                 | - 65.4                 |
|                        | 7 TO 12/12   | + 22.2                 | - 55.2                 |
| HIP ROOF<br>CLADDING   | 2.25 TO 5/12 | + 18.1                 | - 57.2                 |
|                        | 5 TO 7/12    | + 18.1                 | - 44.9                 |
|                        | 7 TO 12/12   | + 17.3                 | - 55.6                 |
| WALL CLADDING          |              | + 24.3                 | - 32.5                 |

- 4. FOR 115 AND 120 MPH WIND ZONES, FOUNDATION ANCHORAGE IS TO COMPLY WITH SECTION R403.1.6 OF THE NCRC, 2024 EDITION. FOR 130 MPH, 140 MPH, AND 150 MPH WIND ZONES, FOUNDATION ANCHORAGE IS TO COMPLY WITH SECTION 4504 OF THE NCRC, 2024 EDITION.
- 5. ENERGY EFFICIENCY COMPLIANCE AND INSULATION VALUES OF THE BUILDING TO BE IN ACCORDANCE WITH CHAPTER 11 OF THE NCRC, 2024 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. EXCEPTION: #57 OR #67 STONE MAY BE USED AS FILL FOR MAXIMUM DEPTH OF 4 FEET WITHOUT CONSOLIDATION. 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, 2024 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, 2024 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.



DATE: NOVEMBER 4, 2024

ENGINEERED BY: JST

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STRUCTURAL NOTES