

NOTICE TO CONTRACTOR  
All construction must comply with current NC Building Codes and is subject to field inspection and verification.

APPROVED

Limited building only review  
Permit holder responsible for full compliance with the code



03/04/2021

# FREELANCE H&H HOMES

## PLAN REVISIONS

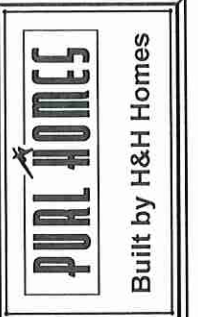
- 11-08-11 COMPLETED CONSTRUCTION DOCUMENTS INCLUDING CLIENT REVIEW COMMENTS.
- 11-16-11 MIRRORRED PLANS TO CREATE LEFT HAND GARAGE VERSION.
- 03-12-16 STANDARD CLIENT CHANGES PER CLIENT WALK-THRU NOTES DATED 08-30-16. CHANGES INCLUDE BUT NOT LIMITED TO THE FOLLOWING: REMOVE OPT. LAUNDRY TUB, REMOVE KITCHEN ISLAND KNEEWALLS, CHANGE KITCHEN ISLAND COUNTER TOP TO HAVE 12" OVERHANGS, REMOVE O.H.C. ABOVE FRIDGE, ADD PLUMBING DROP UNDER CABINET, REMOVE GARAGE SERVICE DOORS, REMOVE OPT. RAILING AT STAIRS, REVISE ALL SECONDARY CLOSETS AND LINENS TO HAVE BI-FOLD DOORS, REMOVE WINDOW GRIDS AT SIDES AND REAR ELEVATIONS, REVISE DATA DROPS TO BE 1 PHONE IN KITCHEN AND 1 TV. IN OWNERS SUITE AND GATHERING ROOM ONLY, REMOVE COVERED PORCH OPTION, REVISE KITCHEN LIGHTING TO BE 4-BULB FLOURESCENT LIGHT.  
  
PLAN SPECIFIC CHANGES INCLUDE BUT NOT LIMITED TO THE FOLLOWING: REMOVE TRIANGLE CHASE, SHIFT GARAGE ENTRY DOOR TIGHT TO CORNER, EXTEND CLOSET BELOW STAIRS, REMOVE MIDDLE WINDOW IN GATHERING ROOM, REMOVE OPT. WINDOW IN CORNER OF GATHERING ROOM, REMOVE BOTTOM TREAD AT STAIR AND ADD TREAD AT UPPER FLOOR, REMOVE OPT. WINDOW AT LOFT, REMOVE OPT. DOOR AT BATH 2, MAKE STANDARD 1 BOWL 30" VANITY IN EXTERIOR CORNER OF BATH 2, MAKE 60" 2 BOWL VANITY AT BATH 2 WITH OPT. BEDROOM 4, REMOVE OPT. WINDOW AT BEDROOM 3, REMOVE OPT. WINDOW AT BEDROOM 2.  
  
ELEVATIONS - REMOVE WINDOW GRIDS FROM SIDES AND REARS.  
ELEVATION "A" ROOF - FLUSH OVERHANGS ON LEFT AND RIGHT SIDE GABLES  
ELEVATION "C" ROOF - CHANGE REAR HIP TO BE GABLE WITH 8" OVERHANG.
- 12-02-19 CHANGED BATHROOM NAMING CONVENTION PER H&H REQUIREMENTS. REVISED ALL MASTERS TO OWNER'S COMMENTS. VERIFIED ALL HDR HGTS WERE AT LEAST 7'-0".
- 2-01-20 VERIFIED ROOM SIZES AND DIMENSIONS.  
CHANGED GATHERING ROOM DIMENSIONS TO 14'-10" X 14'-10".  
UPDATED DIMENSIONS TO PAD AND PATIO IN REAR.  
CHANGE WASHER, DRYER, AND REFRIGERATOR TO OPTIONAL COMPONENTS.  
ADDED COACH LIGHT AT OPT. 1-CAR GARAGE WITH WIRING.  
VERIFIED MASTERS WAS CHANGED TO OWNER'S.  
CHANGE 2X4 WALL AT REAR GARAGE WALL TO 2X6.  
ADDED ROOF VENT CALCULATIONS.  
UPDATED FOR NCRC 2018 AND SC 2018 IRC.  
UPDATED SLAB INTERFACE PLAN AND OPTIONS.  
ADDED ADDITIONAL 3-0 5-0 WINDOW FOR VENTILATION REQMTS IN THE OWNER'S BEDROOM.  
ADDED INSULATION DETAIL TO PLAN SHEETS.  
ADDED OPTIONAL DBL OVEN IN KITCHEN.  
CHANGE ALL CEILING FANS TO OPTIONAL.  
CREATED CUTSHEETS.

- 04-01-20 REMOVED HANSEN BOX AND DRYER VENT.  
GATHERING WAS CHANGED TO FAMILY.  
CAFE WAS CHANGED TO CASUAL DINING.  
CREATED NEW SHEETS FOR FIRST FLOOR PLAN AND SECOND FLOOR PLAN OPTIONS.  
UPDATED CUTSHEETS.  
ADDED (2) HOSE BIBBS RIGHT AND LEFT SIDE OF THE HOUSE.  
CHANGED 2X4 WALL AT LEFT GARAGE WALL TO 2X6.  
REMOVED OUTLETS, PHONES AND TV5 FROM ELECTRICAL PLANS.  
ADDED CARBON MONOXIDE DETECTOR AT BEDROOMS.  
UPDATED THE SF AS FOLLOWS:  
1 CAR GARAGE WAS 251 SF, NOW 252 SF  
ELEV-A PORCH WAS 31 SF, NOW 33 SF  
CREATED ELEVATION FARMHOUSE 'B'.  
CREATED ELEVATION ARTS AND CRAFTS 'D'.  
CHANGED CORNER BOARDS ON ELEVATIONS TO BE 1X4 TRIM BOARD.  
SHOWED COACH LIGHTS ON ELEVATIONS.  
ADDED DIAGONAL DIMENSIONS ON SLAB INTERFACE PLAN.  
CREATED LEFT HAND GARAGE VERSION.  
REMOVED ELEVATION C.  
UPDATED SQ. FT. LOG. TO ELIMINATE SQ. FT. ROUNDING. FIRST FLOOR WAS 864 SF, NOW 863 SF. SECOND FLOOR WAS 1063 SF, NOW 1062 SF. 2 CAR GARAGE WAS 252 SF, NOW 251 SF. PORCH AT ELEV. B WAS 14 SF, NOW 13 SF.  
FLIPPED GARDEN TUB AT OPT. OWNER'S BATH 2 AND 3.  
CHANGED SHUTTERS TO BE 14" WIDE.
- 10-15-20 CHANGED EXTERIOR WALL AT FOYER AND LOFT TO BE 2X6.  
CHANGED LOFT DIMENSIONS TO 13'-2"X9'-10".

| SQUARE FOOTAGE        |              |
|-----------------------|--------------|
| HEATED AREAS          | ELEV 'A'     |
| FIRST FLOOR           | 863 SQ. FT.  |
| SECOND FLOOR          | 1062 SQ. FT. |
| TOTAL HEATED SF       | 1925 SQ. FT. |
| UNHEATED AREAS        |              |
| 1 CAR GARAGE          | 251 SQ. FT.  |
| COVERED AREAS         |              |
| FRONT PORCH           | 33 SQ. FT.   |
| UNCOVERED AREAS       |              |
| OPTIONAL PATIO        | 80 SQ. FT.   |
| UNHEATED OPTIONS      |              |
| OPTIONAL 1-CAR GARAGE | 240 SQ. FT.  |

| SQUARE FOOTAGE        |              |
|-----------------------|--------------|
| HEATED AREAS          | ELEV 'B'     |
| FIRST FLOOR           | 863 SQ. FT.  |
| SECOND FLOOR          | 1062 SQ. FT. |
| TOTAL HEATED SF       | 1925 SQ. FT. |
| UNHEATED AREAS        |              |
| 1 CAR GARAGE          | 251 SQ. FT.  |
| COVERED AREAS         |              |
| FRONT PORCH           | 73 SQ. FT.   |
| UNCOVERED AREAS       |              |
| OPTIONAL PATIO        | 80 SQ. FT.   |
| UNHEATED OPTIONS      |              |
| OPTIONAL 1-CAR GARAGE | 240 SQ. FT.  |

| SQUARE FOOTAGE        |              |
|-----------------------|--------------|
| HEATED AREAS          | ELEV 'D'     |
| FIRST FLOOR           | 863 SQ. FT.  |
| SECOND FLOOR          | 1062 SQ. FT. |
| TOTAL HEATED SF       | 1925 SQ. FT. |
| UNHEATED AREAS        |              |
| 1 CAR GARAGE          | 251 SQ. FT.  |
| COVERED AREAS         |              |
| FRONT PORCH           | 88 SQ. FT.   |
| UNCOVERED AREAS       |              |
| OPTIONAL PATIO        | 80 SQ. FT.   |
| UNHEATED OPTIONS      |              |
| OPTIONAL 1-CAR GARAGE | 240 SQ. FT.  |



|            |           |
|------------|-----------|
| JOB NUMBER | 27167.06  |
| CAD FILE   | FREELANCE |
| ISSUED     | 11-08-17  |
| REVISED    | 02-07-20  |
|            | 04-01-20  |
|            | 10-15-20  |

DRAWINGS ON 11"x17" SHEET ARE ONE HALF THE SCALE NOTED

OFV000037 Permit Marked

FREELANCE (Garage Right)  
H&H HOMES

1927

TITLE  
REVISION LOG

SHEET  
CS

ISSUANCE OF PLANS FROM THIS DRAFTER'S OFFICE SHALL NOT RELIEVE THE BUILDER OF RESPONSIBILITY TO REVIEW AND VERIFY ALL NOTES, DIMENSIONS, AND ADHERENCE TO APPLICABLE BUILDING CODES PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION.  
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**PURAL HOMES**  
 Built by H&H Homes

JOB NUMBER: 27167.08  
 CAD FILE: FREELANCE  
 ISSUED: 11-08-17  
 REVISED: 02-07-20  
 04-01-20  
 10-15-20

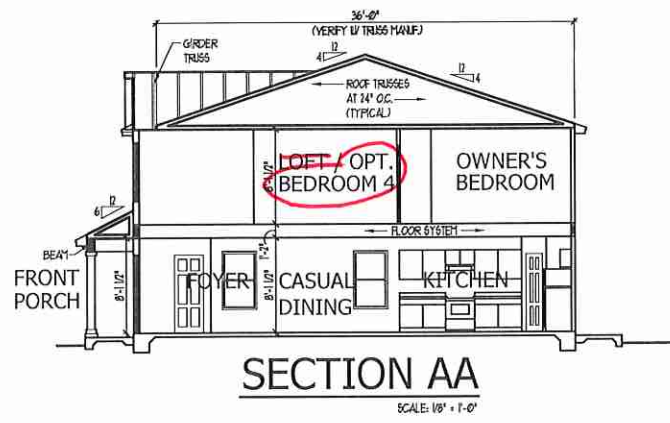
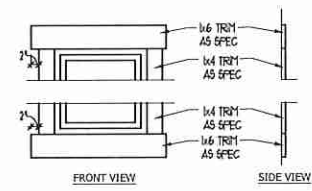
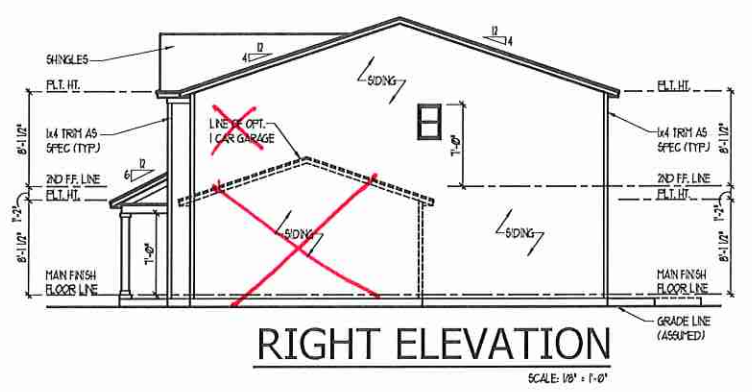
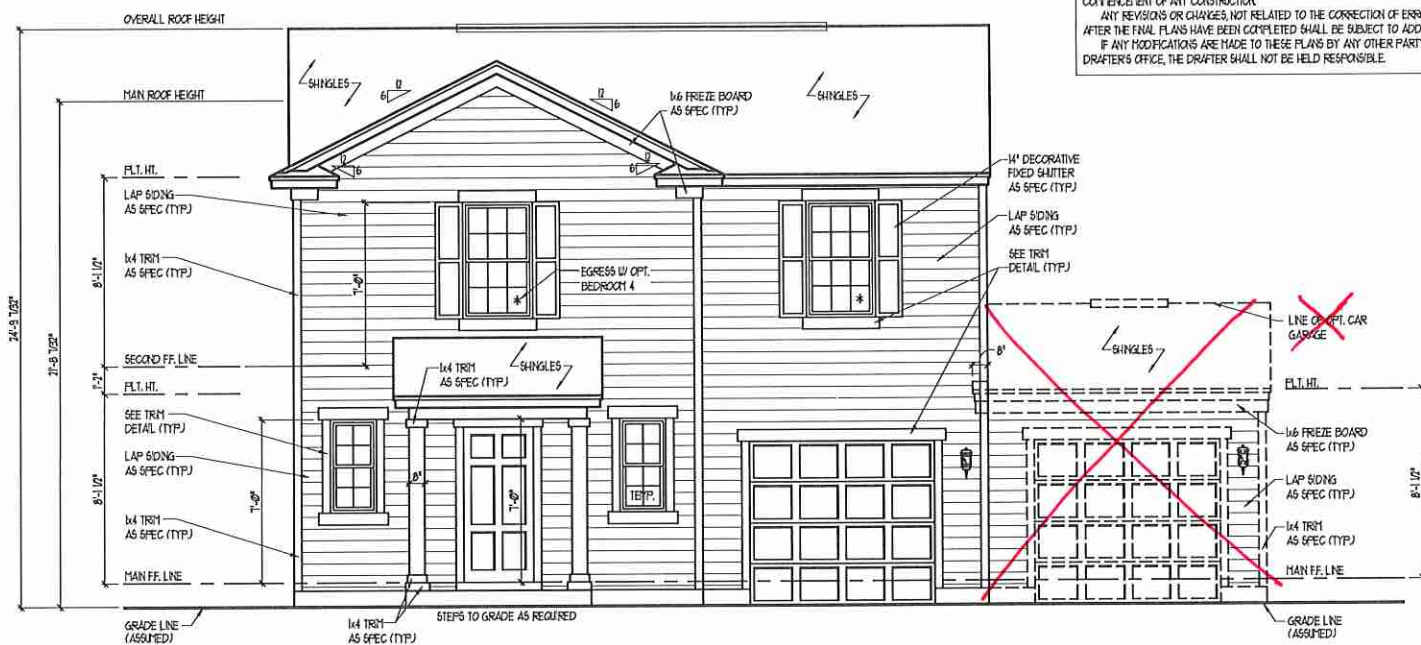
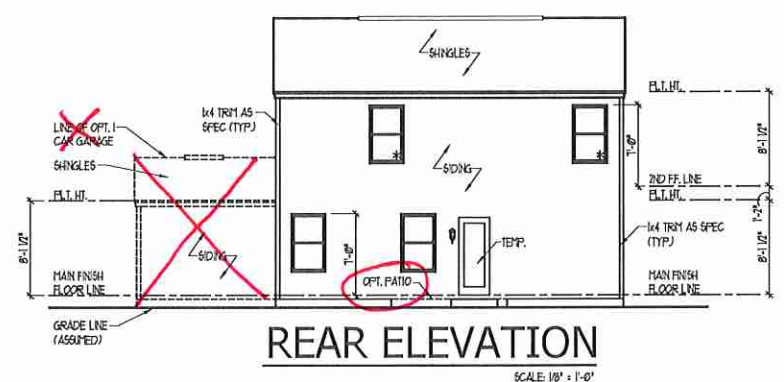
DRAWINGS ON 11"x17" SHEET ARE ONE HALF THE SCALE NOTED

FREE-LANCE (Garage Right)  
 H&H HOMES

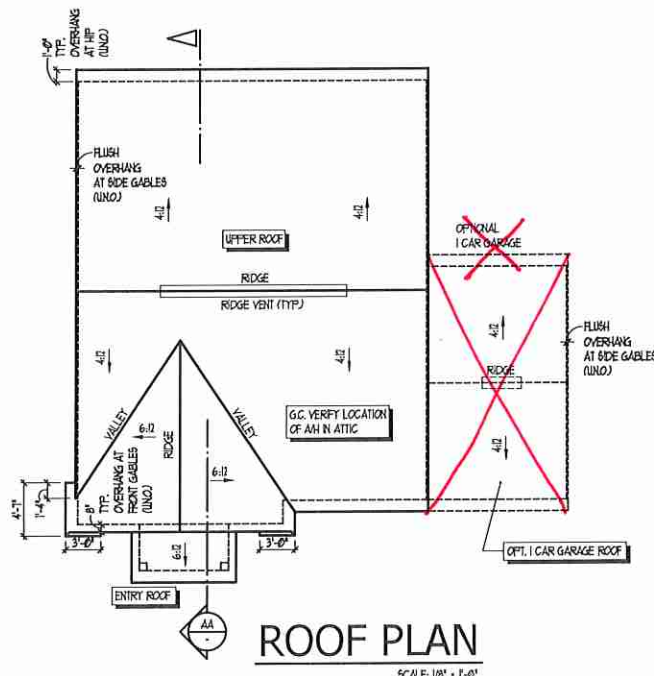
1927

TITLE  
 FRONT ELEVATION  
 REAR ELEVATION  
 RIGHT ELEVATION  
 LEFT ELEVATION  
 ROOF PLAN  
 BUILDING SECTION

SHEET  
**A3.0**



|                              |                             |                         |
|------------------------------|-----------------------------|-------------------------|
| TOTAL UNDER ROOF AREA:       | 1115 SQ. FT. / 300 =        | 1115 SQ. FT.            |
| VENTING AREA REQUIRED:       | LOWER: 1.86                 | UPPER: 1.86             |
| TOTAL REQUIREMENTS:          | LOWER: 1.86                 | UPPER: 1.86             |
| LOWER AREA VENTING           |                             |                         |
| SOFFIT VENT                  | SIZE: .041 SP/FT            | # UNITS: 51'-11" / 2.13 |
| LOWER AREA VENTING PROVIDED: |                             |                         |
| UPPER AREA VENTING           |                             |                         |
| RIDGE VENT                   | SIZE: .125 SP/FT            | # UNITS: 16'-0" / 2.00  |
| UPPER AREA VENTING PROVIDED: |                             |                         |
| TOTAL AREA PROVIDED          | SOFFIT AND RIDGE VENT: 4.13 |                         |



ELEVATIONS, ROOF PLAN,  
 & SECTION - TRADITIONAL 'A'

|            |           |
|------------|-----------|
| JOB NUMBER | 27167.06  |
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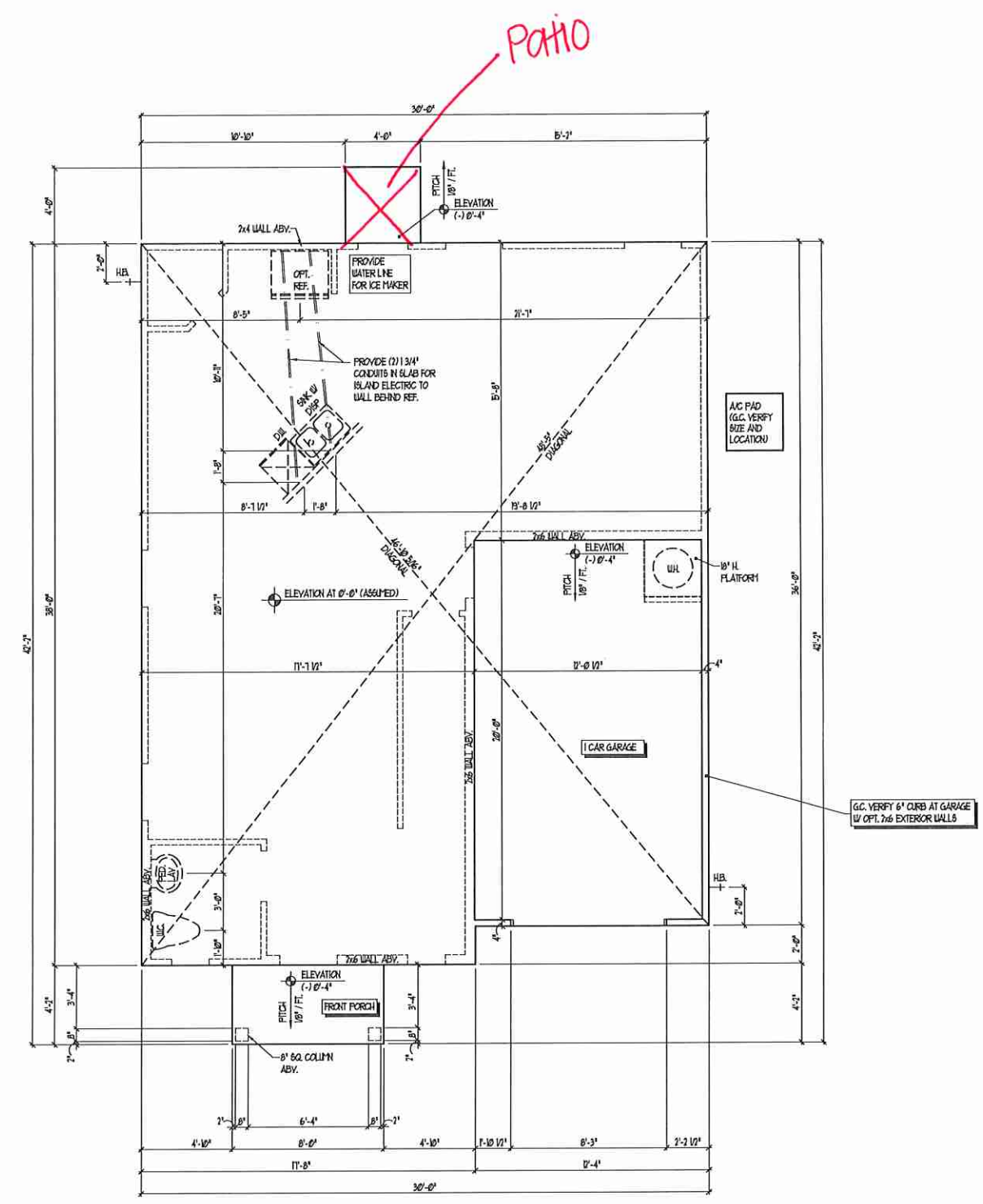
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**FREELANCE (Garage Right)**  
**H&H HOMES**

1927

TITLE  
SLAB INTERFACE PLAN

SHEET  
**A1.0**



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**SLAB INTERFACE PLAN**  
ELEVATION A SHOWN  
SYLAR AT ALL ELEVATIONS (NO FLYING CHANGES)  
SCALE: 1/4" = 1'-0"



|            |           |
|------------|-----------|
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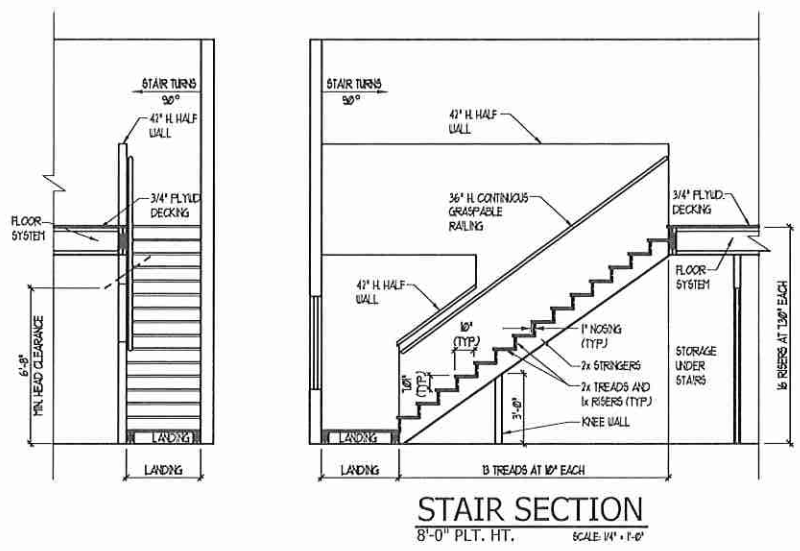
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**FREELANCE (Garage Right)  
H&H HOMES**

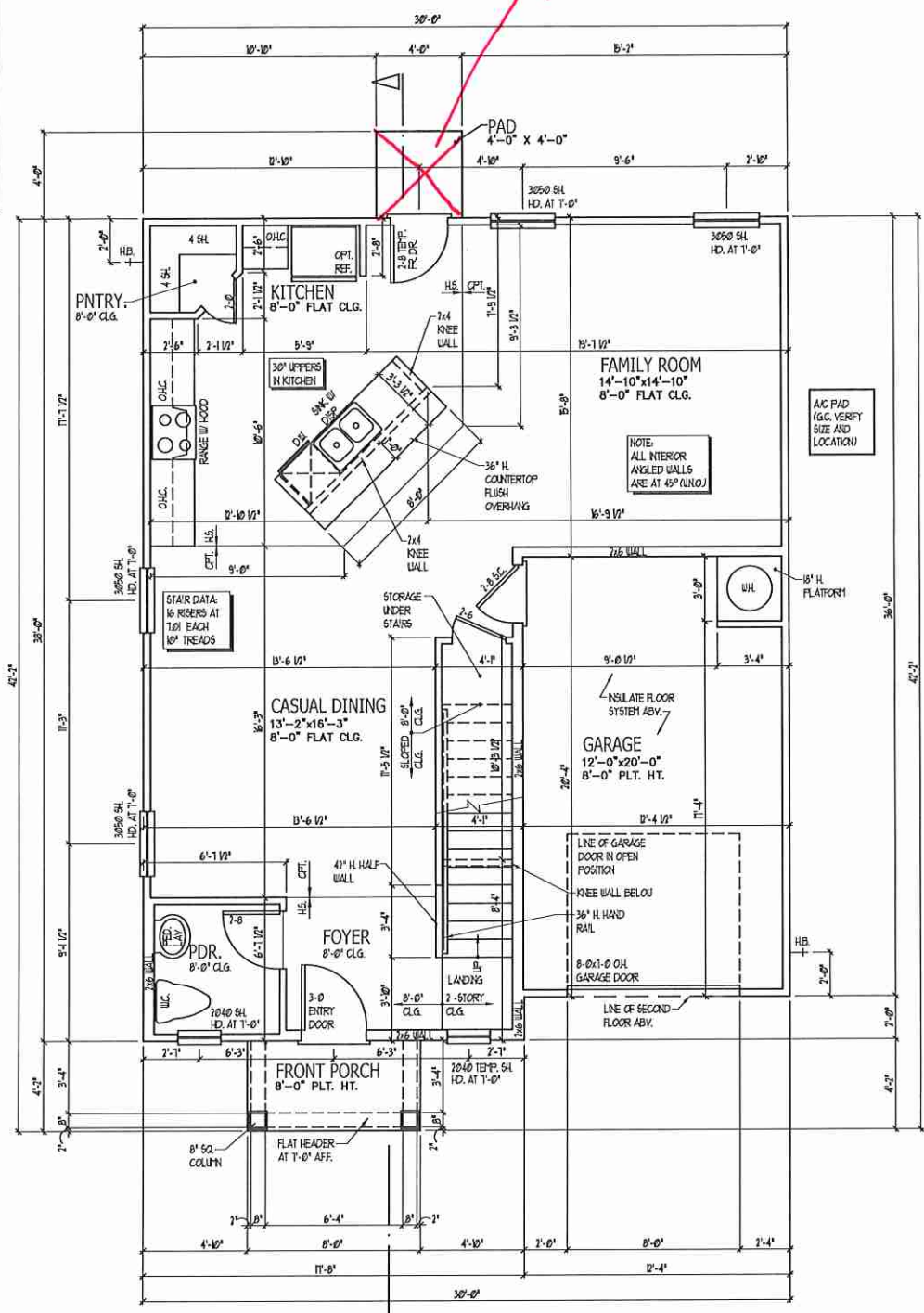
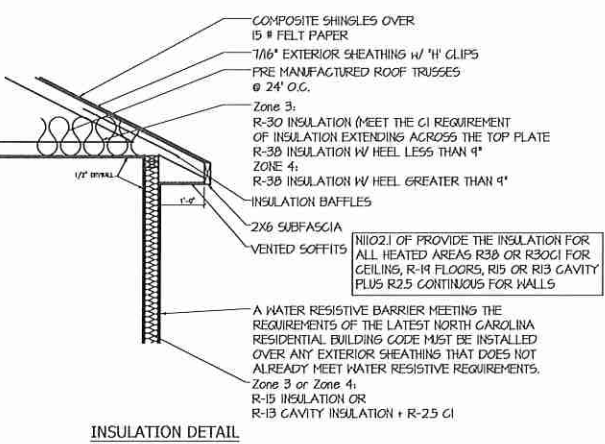
**1927**

TITLE  
MAIN FLOOR PLAN  
STAIR SECTIONS  
INSULATION DETAIL

SHEET  
**A2.0**



**STAIR NOTES:**  
**RAILING**  
 BALUSTERS SHALL BE SPACED SO THAT A 4" SPHERE CANNOT PASS THROUGH THE TRIANGULAR OPENINGS FORMED BY THE RISER, TREAD AND BOTTOM RAIL OF A GUARD AT THE OPEN SIDE OF A STAIRWAY ARE PERMITTED TO BE A SUCH A SIZE THAT A SPHERE OF 6 INCHES CANNOT PASS THROUGH.  
 OPENINGS FOR REQUIRED GUARDS ON THE SIDES OF STAIR TREADS SHALL NOT ALLOW A SPHERE 4 3/8 INCHES TO PASS THROUGH.  
**HANDRAILS** HANDRAILS FOR STAIRWAYS SHALL BE CONTINUOUS FOR THE FULL LENGTH OF THE FLIGHT, FROM A POINT DIRECTLY ABOVE THE TOP RISER OF THE FLIGHT TO A POINT DIRECTLY ABOVE THE LOWEST RISER. HANDRAIL ENDS SHALL BE RETURNED OR SHALL TERMINATE IN NEVEL POSTS OR SAFETY TERMINALS. HANDRAILS ADJACENT TO A WALL SHALL HAVE A SPACE OF NOT LESS THAN 1 1/2 INCH BETWEEN THE WALL AND HANDRAILS.  
 CONTINUOUS GRASPABLE HANDRAIL MUST MEET TYPE ONE OR TYPE TWO CRITERIA



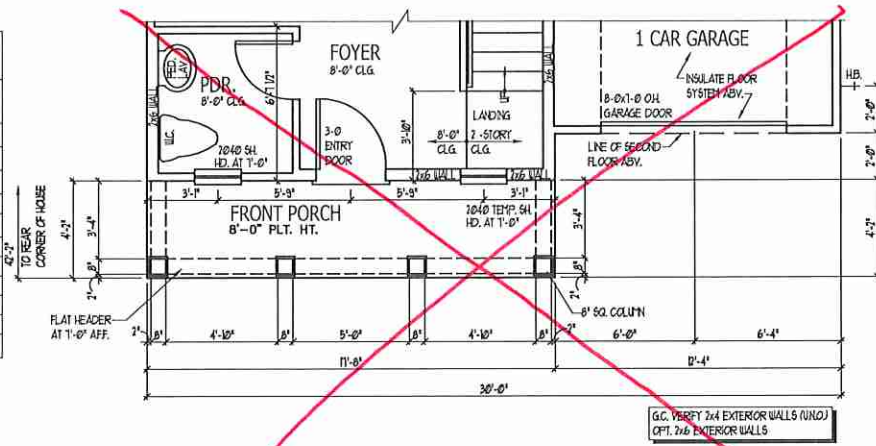
THE GARAGE SHALL BE SEPARATED FROM THE RESIDENCE AND ITS ATTIC AREA BY NOT LESS THAN 1/2 INCH (12.1 mm) GYPSUM BOARD APPLIED TO THE GARAGE SIDE. GARAGES BENEATH HABITABLE ROOMS SHALL BE SEPARATED FROM ALL HABITABLE ROOMS ABOVE BY NOT LESS THAN 5/8 INCH (15.9 mm) TYPE 1/4\"/>

G.C. VERIFY 2x4 EXTERIOR WALLS (UNO) OPT. 2x6 EXTERIOR WALLS  
 G.C. VERIFY INSTALLATION OF OVERHEAD GAS DROPS AT APPLICABLE APPLIANCE LOCATIONS

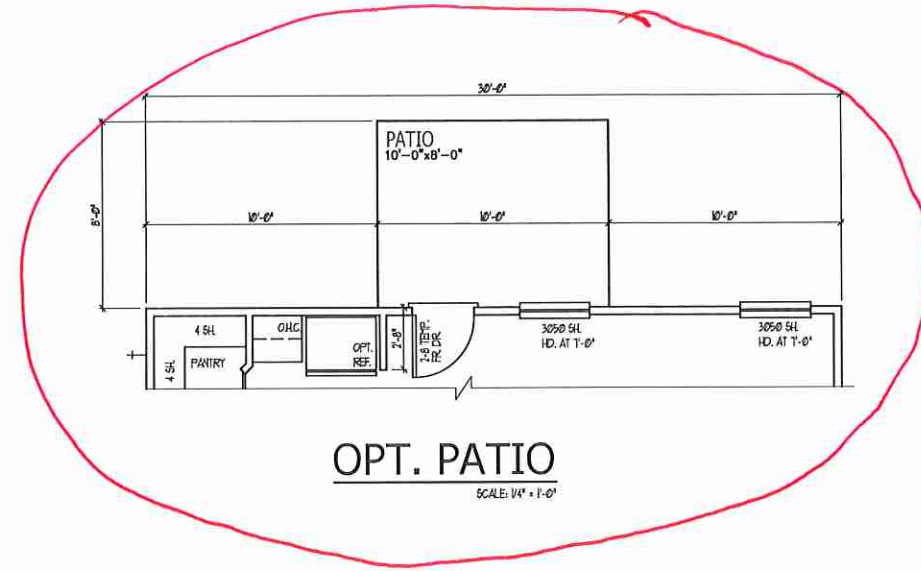
| SQUARE FOOTAGE        |              |
|-----------------------|--------------|
| HEATED AREAS          | ELEV 'A'     |
| FIRST FLOOR           | 863 SQ. FT.  |
| SECOND FLOOR          | 1062 SQ. FT. |
| TOTAL HEATED SF       | 1925 SQ. FT. |
| UNHEATED AREAS        |              |
| 1 CAR GARAGE          | 251 SQ. FT.  |
| COVERED AREAS         |              |
| FRONT PORCH           | 33 SQ. FT.   |
| UNCOVERED AREAS       |              |
| OPTIONAL PATIO        | 80 SQ. FT.   |
| UNHEATED OPTIONS      |              |
| OPTIONAL 1-CAR GARAGE | 240 SQ. FT.  |

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| SQUARE FOOTAGE        |              |
|-----------------------|--------------|
| HEATED AREAS          | ELEV 'B'     |
| FIRST FLOOR           | 863 SQ. FT.  |
| SECOND FLOOR          | 1062 SQ. FT. |
| TOTAL HEATED SF       | 1925 SQ. FT. |
| UNHEATED AREAS        |              |
| 1 CAR GARAGE          | 251 SQ. FT.  |
| COVERED AREAS         |              |
| FRONT PORCH           | 73 SQ. FT.   |
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| UNHEATED OPTIONS      |              |
| OPTIONAL 1-CAR GARAGE | 240 SQ. FT.  |

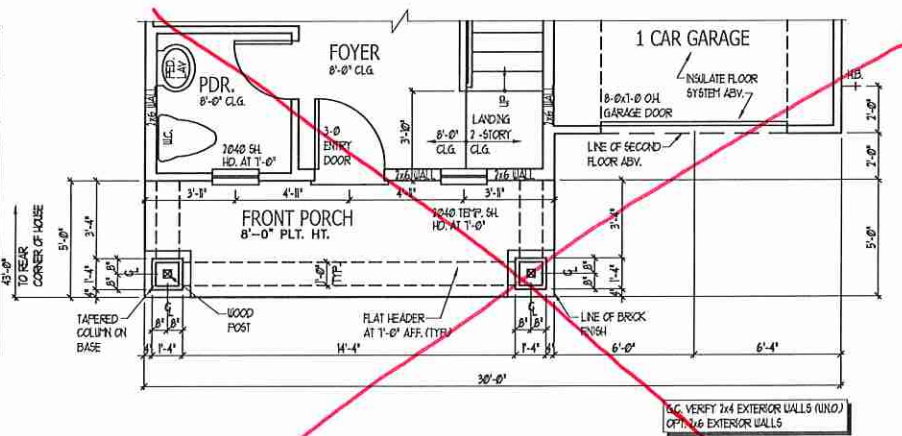


**PARTIAL FIRST FLOOR - B**  
SCALE: 1/4" = 1'-0"

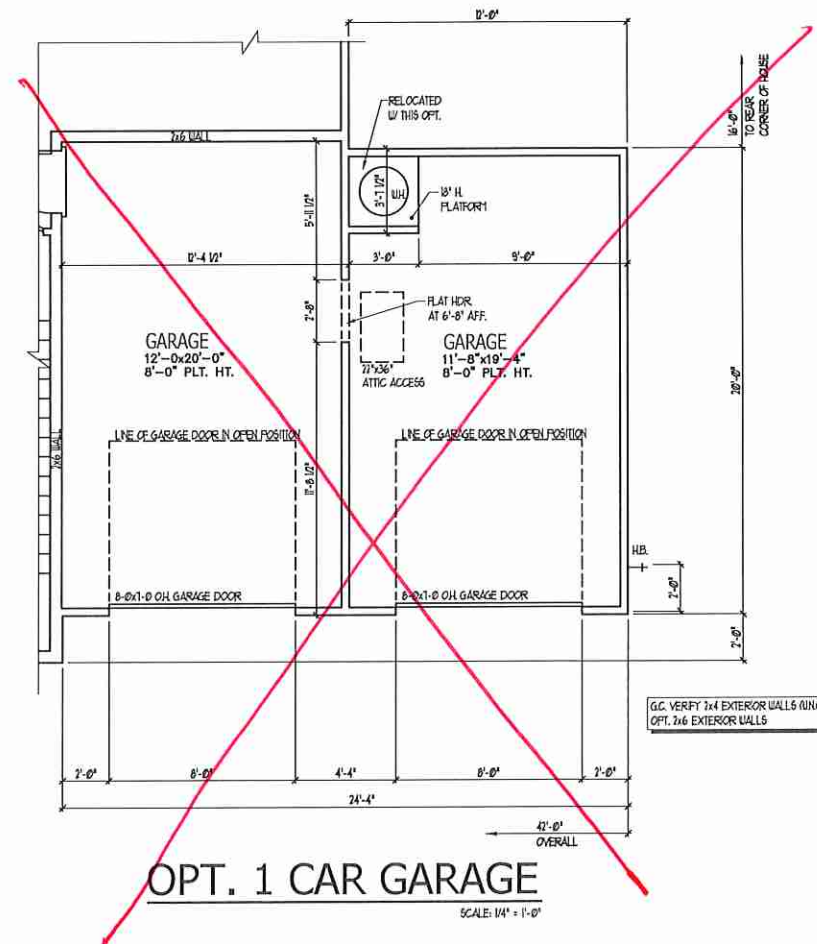


**OPT. PATIO**  
SCALE: 1/4" = 1'-0"

| SQUARE FOOTAGE        |              |
|-----------------------|--------------|
| HEATED AREAS          | ELEV 'D'     |
| FIRST FLOOR           | 863 SQ. FT.  |
| SECOND FLOOR          | 1062 SQ. FT. |
| TOTAL HEATED SF       | 1925 SQ. FT. |
| UNHEATED AREAS        |              |
| 1 CAR GARAGE          | 251 SQ. FT.  |
| COVERED AREAS         |              |
| FRONT PORCH           | 88 SQ. FT.   |
| UNCOVERED AREAS       |              |
| OPTIONAL PATIO        | 80 SQ. FT.   |
| UNHEATED OPTIONS      |              |
| OPTIONAL 1-CAR GARAGE | 240 SQ. FT.  |



**PARTIAL FIRST FLOOR - D**  
SCALE: 1/4" = 1'-0"



**OPT. 1 CAR GARAGE**  
SCALE: 1/4" = 1'-0"

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**PURL HOMES**  
Built by H&H Homes

|            |           |
|------------|-----------|
| JOB NUMBER | 27167.06  |
| OLD FILE   | FREELANCE |
| ISSUED     | 11-08-17  |
| REVISED    | 02-07-20  |
|            | 04-01-20  |
|            | 10-15-20  |

DRAWINGS ON 11"x17" SHEET ARE ONE HALF THE SCALE NOTED

**FREELANCE (Garage Right)**  
**H&H HOMES**

1927

TITLE  
MAIN FLOOR PLAN OPTIONS

SHEET  
**A2.1**

FIRST FLOOR PLAN OPTIONS

REFER TO STANDARD PLAN FOR INFORMATION NOT SHOWN



|            |           |
|------------|-----------|
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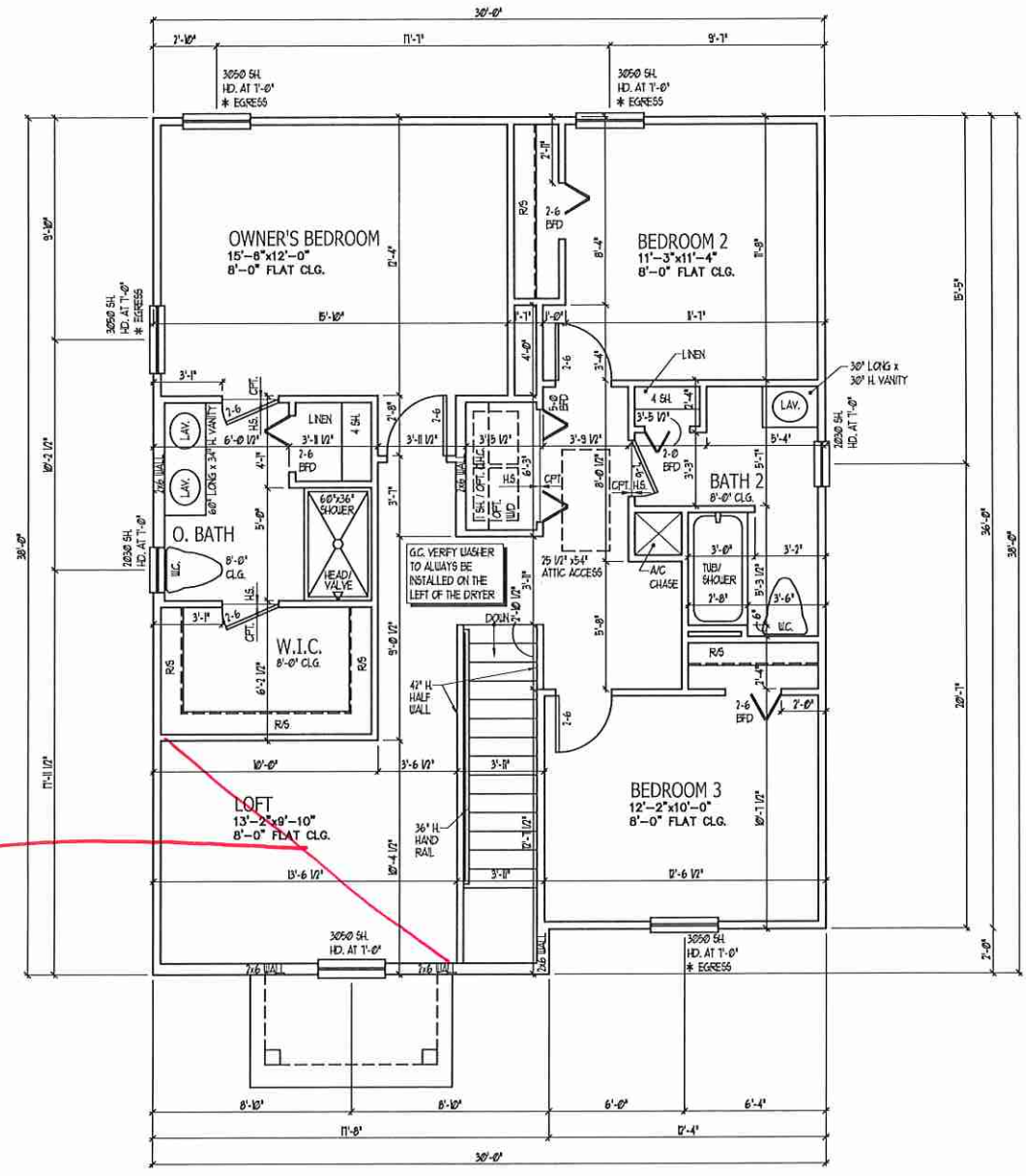
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**H&H HOMES**

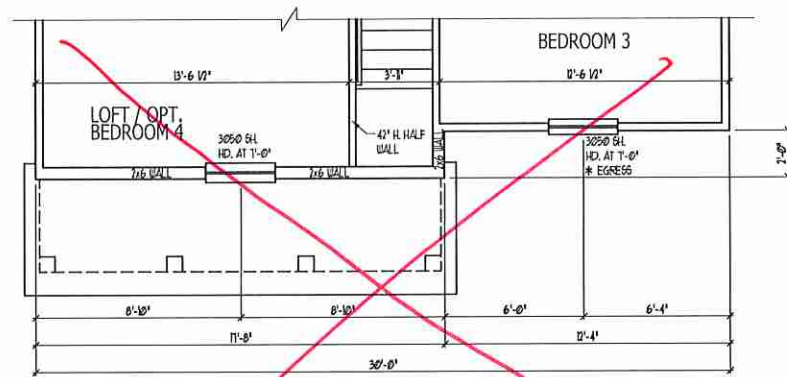
1927

TITLE  
UPPER FLOOR PLAN

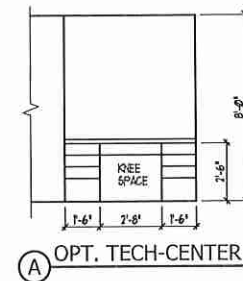
SHEET  
**A2.2**



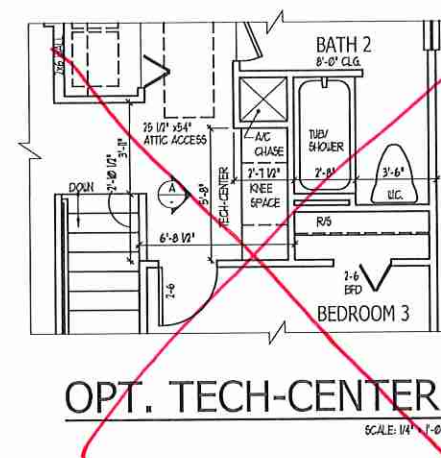
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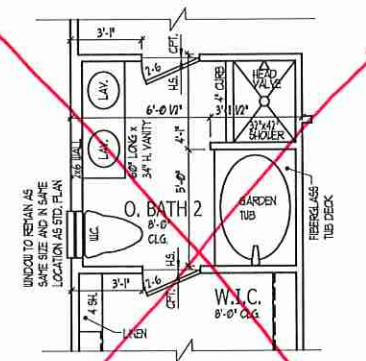
PARTIAL SECOND FLOOR PLAN - B  
SCALE: 1/4" = 1'-0"



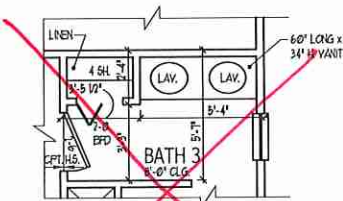
A OPT. TECH-CENTER



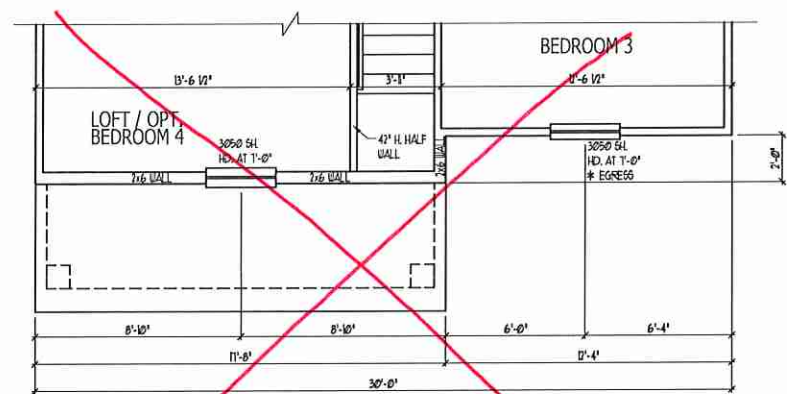
OPT. TECH-CENTER  
SCALE: 1/4" = 1'-0"



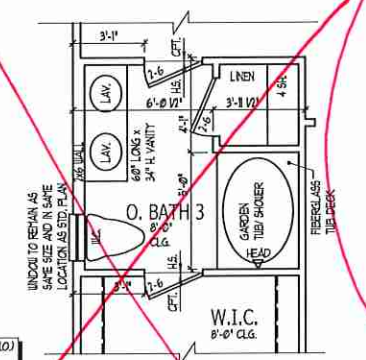
OPT. OWNER'S BATH 2  
SCALE: 1/4" = 1'-0"



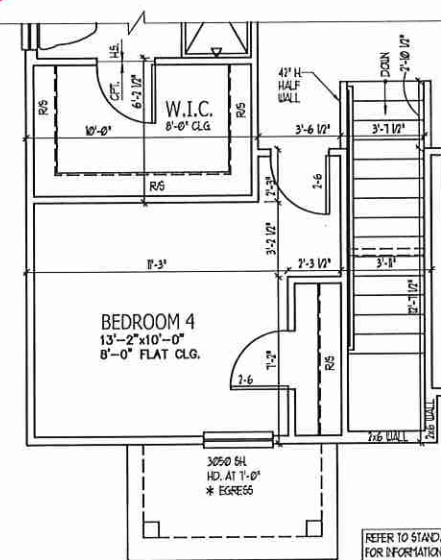
OPT. 2ND BOWL VANITY AT BATH 3  
SCALE: 1/4" = 1'-0"



PARTIAL SECOND FLOOR PLAN - D  
SCALE: 1/4" = 1'-0"



OPT. OWNER'S BATH 3  
SCALE: 1/4" = 1'-0"



OPT. BEDROOM 4 ILO LOFT  
SCALE: 1/4" = 1'-0"

G.G. VERIFY 3/4" EXTERIOR WALLS (UNO)  
OPT. 2/6" EXTERIOR WALLS

REFER TO STANDARD PLAN FOR INFORMATION NOT SHOWN

SECOND FLOOR PLAN OPTIONS

**PURAL HOMES**  
Built by H&H Homes

|            |           |
|------------|-----------|
| JOB NUMBER | 27167.06  |
| CAD FILE   | FREELANCE |
| ISSUED     | 11-08-17  |
| REVISED    | 02-07-20  |
|            | 04-01-20  |
|            | 10-15-20  |

DRAWINGS ON 11"x17" SHEET ARE ONE HALF THE SCALE NOTED

**FREELANCE (Garage Right)**  
**H&H HOMES**

1927

TITLE  
UPPER FLOOR PLAN OPTIONS

SHEET  
**A2.3**

ISSUANCE OF PLANS FROM THIS DRAFTER'S OFFICE SHALL NOT RELIEVE THE BUILDER OF RESPONSIBILITY TO REVIEW AND VERIFY ALL NOTES, DIMENSIONS, AND ADHERENCE TO APPLICABLE BUILDING CODES PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION.  
ANY DISCREPANCY OF ERROR IN NOTES, DIMENSIONS, OR ADHERENCE TO APPLICABLE BUILDING CODES SHALL BE BROUGHT TO THE ATTENTION OF THE DRAFTER'S OFFICE FOR CORRECTION BEFORE COMMENCEMENT OF ANY CONSTRUCTION.  
ANY REVISIONS OR CHANGES, NOT RELATED TO THE CORRECTION OF ERRORS THAT ARE MADE AFTER THE FINAL PLANS HAVE BEEN COMPLETED SHALL BE SUBJECT TO ADDITIONAL FEES.  
IF ANY MODIFICATIONS ARE MADE TO THESE PLANS BY ANY OTHER PARTY OTHER THAN THE DRAFTER'S OFFICE, THE DRAFTER SHALL NOT BE HELD RESPONSIBLE.



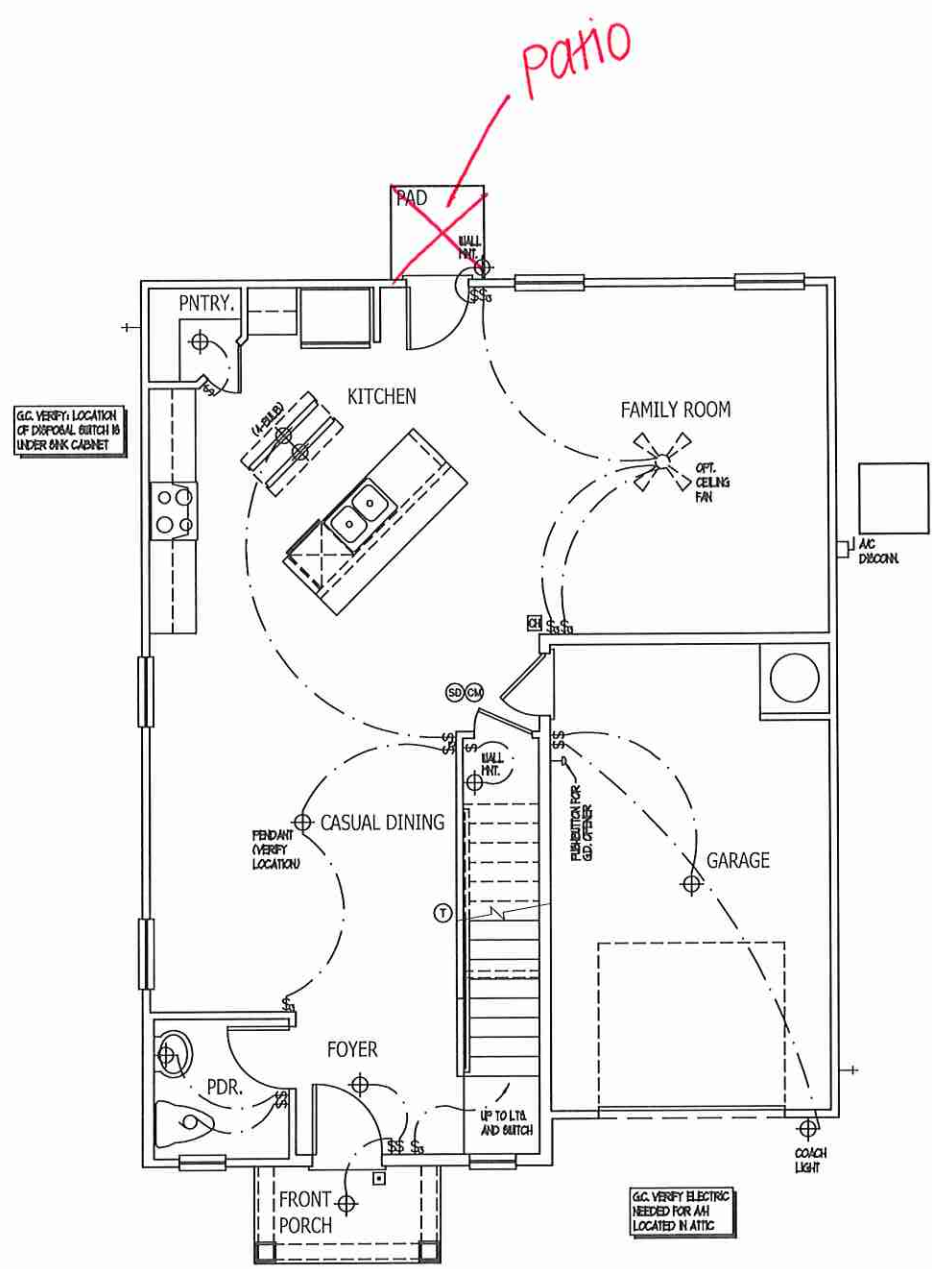
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|------------|-----------|
| JOB NUMBER | 27167.08  |
| CAD FILE   | FREELANCE |
| ISSUED     | 11-08-17  |
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|            | 04-01-20  |
|            | 10-15-20  |

**ELECTRICAL KEY**

- ⊕ DWPX CONVENIENCE OUTLET
- ⊕ DWPX OUTLET ABOVE COUNTER
- ⊕ LEATHERPROOF DWPX OUTLET
- ⊕ GROUND FAULT INTERRUPTER DWPX OUTLET
- ⊕ HALF-SWITCHED DWPX OUTLET
- ⊕ SPECIAL PURPOSE OUTLET
- ⊕ DWPX OUTLET IN FLOOR
- ⊕ 220 VOLT OUTLET
- ⊕ WALL SWITCH
- ⊕ THREE-WAY SWITCH
- ⊕ FOUR-WAY SWITCH
- ⊕ DIMMER SWITCH
- ⊕ CEILING MOUNTED INCANDESCENT LIGHT FIXTURE
- ⊕ WALL MOUNTED INCANDESCENT LIGHT FIXTURE
- ⊕ RECESSED INCANDESCENT LIGHT FIXTURE
- ⊕ LIGHT FIXTURE WITH FULL CHAIN
- ⊕ TRACK LIGHT
- ⊕ FLUORESCENT LIGHT FIXTURE
- ⊕ EXHAUST FAN
- ⊕ EXHAUST FAN/LIGHT COMBINATION
- ⊕ ELECTRIC DOOR OPERATOR (OPTIONAL)
- ⊕ CHIMES (OPTIONAL)
- ⊕ PUSHBUTTON SWITCH (OPTIONAL)
- ⊕ CARBON MONOXIDE DETECTOR
- ⊕ SMOKE DETECTOR
- ⊕ SMOKE / CARBON MONO. COMBO DETECTOR
- ⊕ TELEPHONE (OPTIONAL)
- ⊕ TELEVISION (OPTIONAL)
- ⊕ THERMOSTAT
- ⊕ ELECTRIC METER
- ⊕ ELECTRIC PANEL
- ⊕ DISCONNECT SWITCH
- ⊕ SPEAKER (OPTIONAL)
- ⊕ ROUGH-IN FOR OPT. CEILING FAN
- ⊕ CEILING MOUNTED INCANDESCENT LIGHT FIXTURE W/ ROUGH-IN FOR OPT. CEILING FAN

**NOTES:**

1. PROVIDE AND INSTALL GROUND FAULT CIRCUIT INTERRUPTER (GFCI) AS INDICATED ON PLANS OR AS ITEM NO. 4 AND 5 BELOW INDICATES.
2. UNLESS OTHERWISE INDICATED, INSTALL SWITCHES AND RECEPTACLES AT THE FOLLOWING HEIGHTS ABOVE FINISHED FLOOR:  
 SWITCHES... 48"  
 OUTLETS... 18"  
 TELEPHONE... 48" (UNLESS ASV COUNTERTOP)  
 TELEVISION... 48"
3. ALL SMOKE DETECTORS SHALL BE HARDWIRED INTO AN ELECTRICAL POWER SOURCE AND SHALL BE EQUIPPED WITH A MONITORED BATTERY BACKUP. PROVIDE AND INSTALL LOCALLY CERTIFIED SMOKE DETECTORS.
4. ALL BA AND 2BA RECEPTACLES IN SLEEPING ROOMS, FAMILY ROOMS, DINING ROOMS, LIVING ROOMS, PARLORS, LIBRARIES, DINING ROOMS, RECREATION ROOMS, CLOSETS, HALLWAYS, AND SIMILAR AREAS SHALL REQUIRE A COMBINATION TYPE AFCI DEVICE AND TAMPER-PROOF RECEPTACLES PER NEC 201.406.2 AND 406.3
5. ALL BA AND 2BA DWPX RECEPTACLES LOCATED IN THE GARAGE AND UTILITY ROOMS SHALL BE GFCI PROTECTED (GFI).
6. IT IS THE RESPONSIBILITY OF THE LICENSED ELECTRICIAN TO ENSURE THAT ALL ELECTRICAL WORK IS IN FULL COMPLIANCE WITH NFPA 70, NEC 201, AND ALL APPLICABLE LOCAL STANDARDS, CODES, AND ORDINANCES.
7. EVERY BUILDING HAVING A FOSSIL-FUEL-BURNING HEATER OR APPLIANCE, FIREPLACE, OR AN ATTACHED GARAGE SHALL HAVE AN OPERATIONAL CARBON MONOXIDE DETECTOR INSTALLED WITHIN 10 FEET OF EACH ROOM USED FOR SLEEPING PURPOSES.
8. ALARMS SHALL RECEIVE THEIR PRIMARY POWER FROM THE BUILDING WIRING WHEN SUCH WIRING IS SERVED FROM THE LOCAL POWER UTILITY. SUCH ALARMS SHALL HAVE BATTERY BACKUP. COMBINATION SMOKE/CARBON MONOXIDE ALARMS SHALL BE LISTED OR LABELED BY A NATIONALLY RECOGNIZED TESTING LABORATORY.



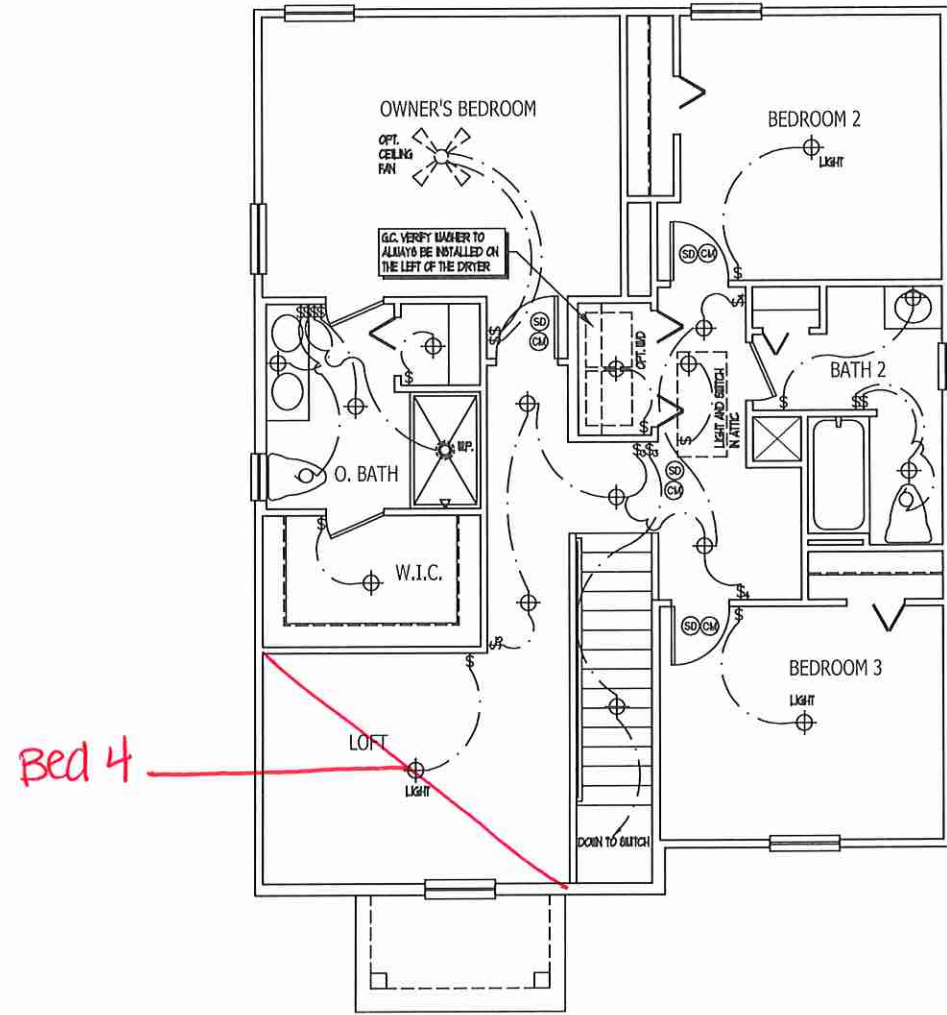
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**ELECTRICAL KEY**

- ⊕: DUPLEX CONVENIENCE OUTLET
- ⊕: DUPLEX OUTLET ABOVE COUNTER
- ⊕: LEAKAGE-PROOF DUPLEX OUTLET
- ⊕: GROUND FAULT INTERRUPTER DUPLEX OUTLET
- ⊕: HALF-SWITCHED DUPLEX OUTLET
- ⊕: SPECIAL PURPOSE OUTLET
- ⊕: DUPLEX OUTLET IN FLOOR
- ⊕: 220 VOLT OUTLET
- ⊕: WALL SWITCH
- ⊕: THREE-WAY SWITCH
- ⊕: FOUR-WAY SWITCH
- ⊕: DIMMER SWITCH
- ⊕: CEILING MOUNTED INCANDESCENT LIGHT FIXTURE
- ⊕: WALL MOUNTED INCANDESCENT LIGHT FIXTURE
- ⊕: RECESSED INCANDESCENT LIGHT FIXTURE
- ⊕: LIGHT FIXTURE WITH FULL CHAIN
- ⊕: TRACK LIGHT
- ⊕: FLUORESCENT LIGHT FIXTURE
- ⊕: EXHAUST FAN
- ⊕: EXHAUST FAN/LIGHT COMBINATION
- ⊕: ELECTRIC DOOR OPERATOR (OPTIONAL)
- ⊕: CHIMNEY (OPTIONAL)
- ⊕: PUSH-BUTTON SWITCH (OPTIONAL)
- ⊕: CARBON MONOXIDE DETECTOR
- ⊕: SMOKE DETECTOR
- ⊕: SMOKE / CARBON MONOXIDE COMBO DETECTOR
- ⊕: TELEPHONE (OPTIONAL)
- ⊕: TELEVISION (OPTIONAL)
- ⊕: THERMOSTAT
- ⊕: ELECTRIC METER
- ⊕: ELECTRIC PANEL
- ⊕: DISCONNECT SWITCH
- ⊕: SPEAKER (OPTIONAL)
- ⊕: ROUGH-IN FOR OPT. CEILING FAN
- ⊕: CEILING MOUNTED INCANDESCENT LIGHT FIXTURE BY ROUGH-IN FOR OPT. CEILING FAN

- NOTES:**
1. PROVIDE AND INSTALL GROUND FAULT CIRCUIT INTERRUPTERS (GFCI) AS INDICATED ON PLANS OR AS ITEM NO. 4 AND 5 BELOW INDICATED.
  2. UNLESS OTHERWISE INDICATED, INSTALL SWITCHES AND RECEPTACLES AT THE FOLLOWING HEIGHTS ABOVE FINISHED FLOOR:  
 SWITCHES... 48"  
 OUTLETS... 18"  
 TELEPHONE... 18" (UNLESS ABV COUNTERTOP)  
 TELEVISION... 36"
  3. ALL SMOKE DETECTORS SHALL BE HARDWIRED INTO AN ELECTRICAL POWER SOURCE AND SHALL BE EQUIPPED WITH A MONITORED BATTERY BACKUP. PROVIDE AND INSTALL LOCALLY CERTIFIED SMOKE DETECTORS.
  4. ALL 15A AND 20A RECEPTACLES IN SLEEPING ROOMS, FAMILY ROOMS, DINING ROOMS, LIVING ROOMS, PARLORS, LIBRARIES, DEN, BATHROOMS, RECREATION ROOMS, CLOSETS, HALLWAYS, AND SIMILAR AREAS WILL REQUIRE A COMBINATION TYPE AFCI DEVICE AND TAMPER-PROOF RECEPTACLES PER NEC 201.406.2 AND 406.3.
  5. ALL 15A AND 20A 120V RECEPTACLES LOCATED IN THE GARAGE AND UTILITY ROOMS SHALL BE GFCI PROTECTED (GFI).
  6. IT IS THE RESPONSIBILITY OF THE LICENSED ELECTRICIAN TO ENSURE THAT ALL ELECTRICAL WORK IS IN FULL COMPLIANCE WITH NFPA 70, NEC 201, AND ALL APPLICABLE LOCAL STANDARDS, CODES, AND ORDINANCES.
  7. EVERY BUILDING HAVING A FOSSIL-FUEL-BURNING HEATER OR APPLIANCE, FIREPLACE, OR AN ATTACHED GARAGE SHALL HAVE AN OPERATIONAL CARBON MONOXIDE DETECTOR INSTALLED WITHIN 10 FEET OF EACH ROOM USED FOR SLEEPING PURPOSES.
  8. ALARMS SHALL RECEIVE THEIR PRIMARY POWER FROM THE BUILDING WIRING WHEN SUCH WIRING IS SERVED FROM THE LOCAL POWER UTILITY. SUCH ALARMS SHALL HAVE BATTERY BACKUP. COMBINATION SMOKE/CARBON MONOXIDE ALARMS SHALL BE LISTED OR LABELED BY A NATIONALLY RECOGNIZED TESTING LABORATORY.



ISSUANCE OF PLANS FROM THIS DRAFTER'S OFFICE SHALL NOT RELIEVE THE BUILDER OF RESPONSIBILITY TO REVIEW AND VERIFY ALL NOTES, DIMENSIONS, AND ADHERENCE TO APPLICABLE BUILDING CODES PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION.  
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 IF ANY MODIFICATIONS ARE MADE TO THESE PLANS BY ANY OTHER PARTY OTHER THAN THE DRAFTER'S OFFICE, THE DRAFTER SHALL NOT BE HELD RESPONSIBLE.

**PURAL HOMES**  
 Built by H&H Homes

|            |           |
|------------|-----------|
| JOB NUMBER | 27187.08  |
| CAD FILE   | FREELANCE |
| ISSUED     | 11-08-17  |
| REVISED    | 02-07-20  |
|            | 04-01-20  |
|            | 10-15-20  |

**FREELANCE (Garage Right)**  
**H&H HOMES**

1927

TITLE  
 UPPER FLOOR PLAN ELEC.

SHEET  
**E1.2**

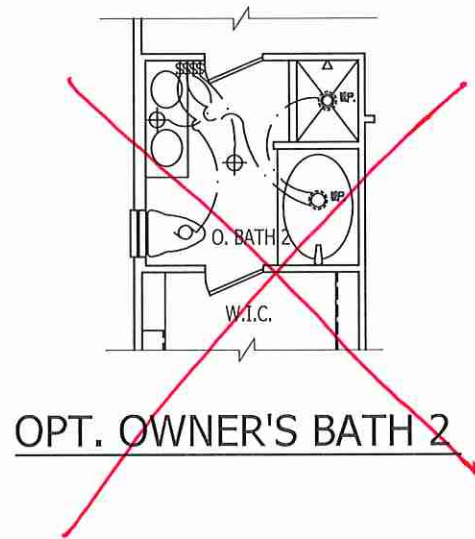
**SECOND FLOOR ELECTRICAL PLAN A**  
 ELEVATION B AND D ONLY

|            |           |
|------------|-----------|
| JOB NUMBER | 27167.06  |
| CAD FILE   | FREELANCE |
| ISSUED     | 11-08-17  |
| REVISED    | 02-07-20  |
|            | 04-01-20  |
|            | 10-15-20  |

**ELECTRICAL KEY**

- DUPLEX CONVENIENCE OUTLET
- DUPLEX OUTLET ABOVE COUNTER
- WEATHERPROOF DUPLEX OUTLET
- GROUND FAULT INTERRUPTER DUPLEX OUTLET
- HALF-SWITCHED DUPLEX OUTLET
- SPECIAL PURPOSE OUTLET
- DUPLEX OUTLET IN FLOOR
- 220 VOLT OUTLET
- WALL SWITCH
- THREE-WAY SWITCH
- FOUR-WAY SWITCH
- DIMMER SWITCH
- CEILING MOUNTED INCANDESCENT LIGHT FIXTURE
- WALL MOUNTED INCANDESCENT LIGHT FIXTURE
- RECESSED INCANDESCENT LIGHT FIXTURE
- LIGHT FIXTURE WITH PULL CHAIN
- TRACK LIGHT
- FLUORESCENT LIGHT FIXTURE
- EXHAUST FAN
- EXHAUST FAN/LIGHT COMBINATION
- ELECTRIC DOOR OPERATOR (OPTIONAL)
- CHIMES (OPTIONAL)
- PUSHBUTTON SWITCH (OPTIONAL)
- CARBON MONOXIDE DETECTOR
- SMOKE DETECTOR
- SMOKE / CARBON MONO. COMBO DETECTOR
- TELEPHONE (OPTIONAL)
- TELEVISION (OPTIONAL)
- THERMOSTAT
- ELECTRIC METER
- ELECTRIC PANEL
- DISCONNECT SWITCH
- SPEAKER (OPTIONAL)
- ROUGH-IN FOR OPT. CEILING FAN
- CEILING MOUNTED INCANDESCENT LIGHT FIXTURE w/ ROUGH-IN FOR OPT. CEILING FAN

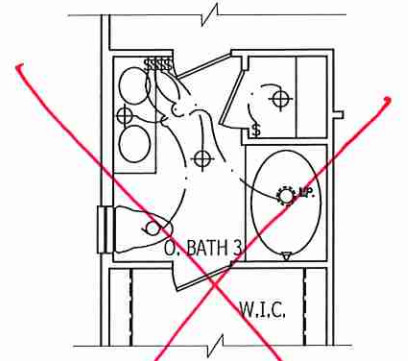
- NOTES:**
1. PROVIDE AND INSTALL GROUND FAULT CIRCUIT INTERRUPTERS (GFCI) AS INDICATED ON PLANS OR AS ITEM NO. 4 AND 5 BELOW INDICATED.
  2. UNLESS OTHERWISE INDICATED, INSTALL SWITCHES AND RECEPTACLES AT THE FOLLOWING HEIGHTS ABOVE FINISHED FLOOR:  
 SWITCHES... 4'  
 OUTLETS... 18"  
 TELEPHONE... 48" (UNLESS ABOVE COUNTER)  
 TELEVISION... 54"
  3. ALL SMOKE DETECTORS SHALL BE HARDWIRED INTO AN ELECTRICAL POWER SOURCE AND SHALL BE EQUIPPED WITH A MONITORED BATTERY BACKUP. PROVIDE AND INSTALL LOCALLY CERTIFIED SMOKE DETECTORS.
  4. ALL BA AND 2BA RECEPTACLES IN SLEEPING ROOMS, FAMILY ROOMS, DINING ROOMS, LIVING ROOMS, PORCHES, LIBRARIES, DEN'S, BARRIORS, RECREATION ROOMS, CLOSETS, HALLWAYS, AND SIMILAR AREAS SHALL REQUIRE A COMBINATION TYPE AFCI DEVICE AND TAMPER-PROOF RECEPTACLES PER N.E.C. 201.406.0 AND 406.03
  5. ALL BA AND 2BA RECEPTACLES LOCATED IN THE GARAGE AND UTILITY ROOMS SHALL BE GFCI PROTECTED (GFI).
  6. IT IS THE RESPONSIBILITY OF THE LICENSED ELECTRICIAN TO ENSURE THAT ALL ELECTRICAL WORK IS IN FULL COMPLIANCE WITH NFPA 70, N.E.C. 300, AND ALL APPLICABLE LOCAL STANDARDS, CODES, AND ORDINANCES.
  7. EVERY BUILDING HAVING A FOSSIL-FUEL-BURNING HEATER OR APPLIANCE, FIREPLACE, OR AN ATTACHED GARAGE SHALL HAVE AN OPERATIONAL CARBON MONOXIDE DETECTOR INSTALLED WITHIN 10 FEET OF EACH ROOM USED FOR SLEEPING PURPOSES.
  8. ALARMS SHALL RECEIVE THEIR PRIMARY POWER FROM THE BUILDING USING WHEN SUCH WIRING IS SERVED FROM THE LOCAL POWER UTILITY. SUCH ALARMS SHALL HAVE BATTERY BACKUP. COMBINATION SMOKE/CARBON MONOXIDE ALARMS SHALL BE LISTED OR LABELED BY A NATIONALLY RECOGNIZED TESTING LABORATORY.



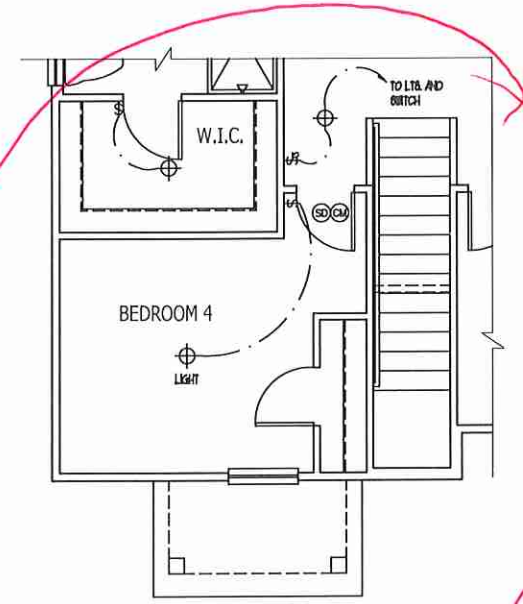
OPT. OWNER'S BATH 2



OPT. 2ND BOWL VANITY AT BATH 3



OPT. OWNER'S BATH 3



OPT. BEDROOM 4 ILO LOFT

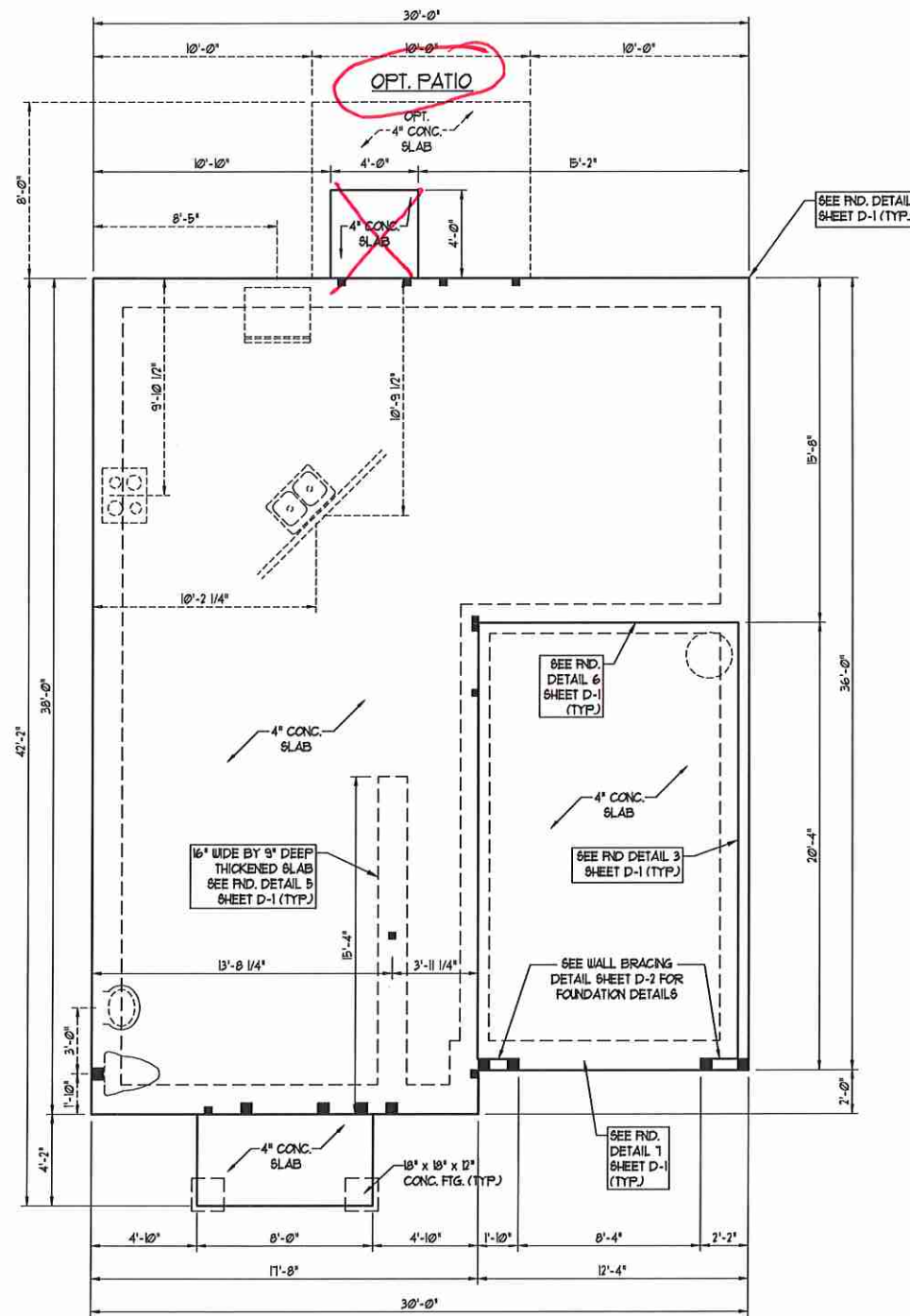
ELEV. 'A' SHOWN  
INCLUDES 2ND BOWL VANITY AT BATH 3

**SECOND FLOOR ELECTRICAL PLAN OPTIONS**

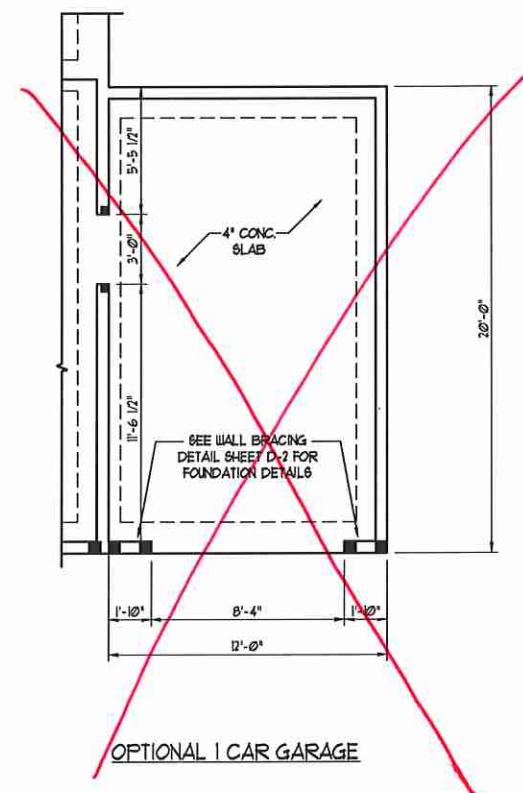
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SCALE NOTE:  
LARGE FORMAT PRINTS ARE TO SCALE AS NOTED.  
11" x 17" PRINTS ARE ONE HALF THE NOTED SCALE



ELEVATION A



OPTIONAL 1 CAR GARAGE

- 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 WITH SPECIAL CONSIDERATION TO CHAPTER 45 ("HIGH WIND ZONES" FOR 80 MPH WINDS).
  - BUILDER IS TO PROVIDE FRAMING CONNECTIONS AS REQUIRED BY CHAPTER 45 ("HIGH WIND ZONES" FOR 80 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 0.43 PSF AND -0.37 PSF (+/- INDICATE POSITIVE / NEGATIVE PRESSURE (TYP)).
  - ROOF CLADDING DESIGNED FOR 0.22 PSF AND -0.28 PSF FOR ROOF PITCHES 1/2 TO 1/12 AND 44 PSF AND -51 PSF FOR ROOF PITCHED 2/12 TO 1/12.
  - 1/8" 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 1 OF THE NRC, 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"-8" O.C. AND WITHIN 1'-0" FROM END OF EACH CORNER. ANCHOR BOLTS MUST EXTEND A MINIMUM OF 1" INTO MASONRY OR CONCRETE. LOCATE BOLT WITHIN MIDDLE THIRD OF FLATE WIDTH.
  - MEAN ROOF HEIGHT IS LESS THAN 30 FEET.
  - EXTERIOR WALLS DESIGNED FOR 80 MPH WINDS.
  - WALL CLADDING DESIGNED FOR 45.5 PSF AND -20 PSF (+/- INDICATE POSITIVE / NEGATIVE PRESSURE (TYP)).
  - ROOF CLADDING DESIGNED FOR 44.3 PSF AND -18 PSF FOR ROOF PITCHES 1/2 TO 1/12 AND 48 PSF AND -36 PSF FOR ROOF PITCHED 2/12 TO 1/12.
  - INSTALL 1/8" OSB SHEATHING ON ALL EXTERIOR WALLS OF ALL STORES IN ACCORDANCE WITH SECTION R602.10.3 OF THE NRC, 2018 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 1 OF THE NRC, 2018 EDITION.
  - REFER TO NOTES AND DETAIL SHEETS FOR ADDITIONAL STRUCTURAL INFORMATION.

**J.S. THOMPSON ENGINEERING INC.**  
608 WADE AVE. SUITE 104 RALEIGH, NC 27605  
PHONE: (919) 789-9919 FAX: (919) 789-9921  
N.C. LICENSE NO.: C1733

FREELANCE  
H & H HOMES

DATE: OCTOBER 21, 2020  
SCALE: 1/4" = 1'-0"  
DRAWN BY: PURL HOMES  
ENGINEERED BY: WFB

SHEET 3 OF 13  
S-1.2a  
MONO SLAB  
FOUNDATION PLAN

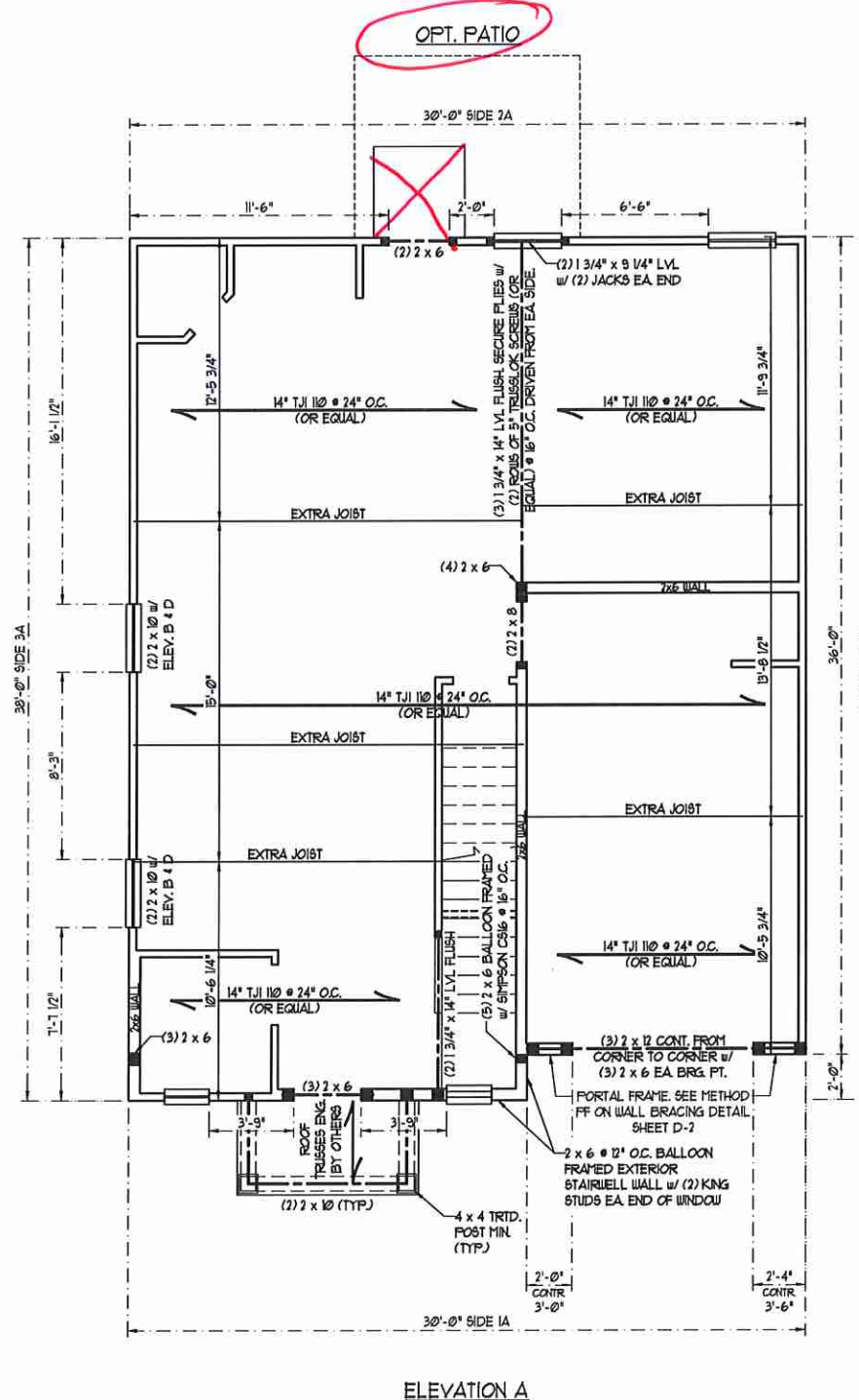


SCALE NOTE:  
LARGE FORMAT PRINTS ARE TO SCALE AS NOTED.  
11" x 17" PRINTS ARE ONE HALF THE NOTED SCALE

- BRACED WALL DESIGN NOTES:**
- BRACED WALL DESIGN PER SECTION R602.10 OF THE NCRC 2018 EDITION.
  - C5-WSP REFERS TO "CONTINUOUS SHEATHING - WOOD STRUCTURAL PANELS" CONTRACTOR IS TO INSTALL 1/16" 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 WALL BOARD WHERE NOTED ON THE PLANS. FASTEN GB WITH 1 1/4" SCREWS OR 1 5/8" NAILS SPACED 1" O.C. ALONG PANEL EDGES AND IN THE FIELD INCLUDING TOP AND BOTTOM PLATES.
  - BRACED WALL DESIGN APPLIED IN WIND ZONES UP TO 130 MPH. FOR HIGH WIND ZONES, BRACE WALLS ARE TO BE CONSTRUCTED IN ACCORDANCE WITH CHAPTER 45 OF THE NCRC 2018 EDITION.
  - SEE NOTES AND DETAIL SHEETS FOR ADDITIONAL BRACED WALL INFORMATION.

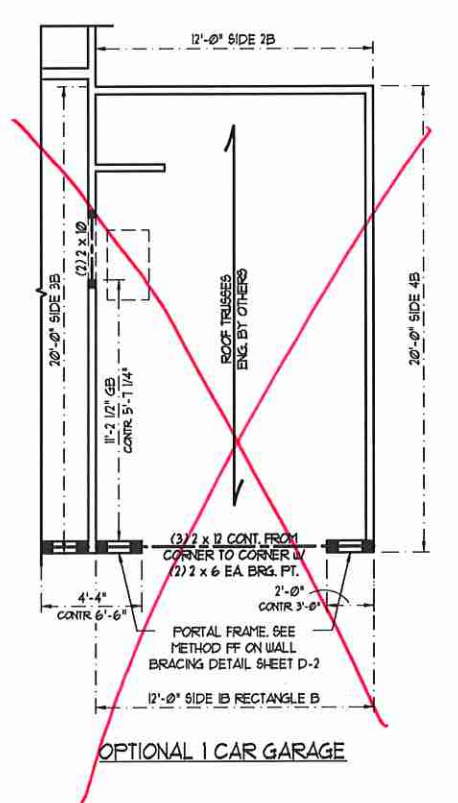
**BRACED WALL DESIGN**

| RECTANGLE A   | RECTANGLE B  |
|---|--|
| <b>SIDE 1A</b><br>METHOD: C5-WSP/FF<br>TOTAL REQUIRED LENGTH: 9.88'<br>TOTAL PROVIDED LENGTH: 14' | <b>SIDE 1B</b><br>METHOD: C5-WSP/FF<br>TOTAL REQUIRED LENGTH: 2.38'<br>TOTAL PROVIDED LENGTH: 6'                   |
| <b>SIDE 2A</b><br>METHOD: C5-WSP<br>TOTAL REQUIRED LENGTH: 9.88'<br>TOTAL PROVIDED LENGTH: 12.0'  | <b>SIDE 2B</b><br>METHOD: C5-WSP<br>TOTAL REQUIRED LENGTH: 2.38'<br>TOTAL PROVIDED LENGTH: 12.0'                   |
| <b>SIDE 3A</b><br>METHOD: C5-WSP<br>TOTAL REQUIRED LENGTH: 8.01'<br>TOTAL PROVIDED LENGTH: 32'    | <b>SIDE 3B 1 4A COMBINED</b><br>METHOD: C5-WSP/GB<br>TOTAL REQUIRED LENGTH: 10.01'<br>TOTAL PROVIDED LENGTH: 23.6' |
| <b>SIDE 4A</b><br>METHOD: C5-WSP<br>TOTAL REQUIRED LENGTH: 8.01'<br>TOTAL PROVIDED LENGTH: 38'    | <b>SIDE 4B</b><br>METHOD: C5-WSP<br>TOTAL REQUIRED LENGTH: 2'<br>TOTAL PROVIDED LENGTH: 20'                        |



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

NOTE: BCI 4500s-18 JOISTS MAY BE INSTALLED IN LIEU OF TJI 110 JOISTS AT THE DEPTH AND SPACING INDICATED ON THE PLAN



- STRUCTURAL NOTES:**
- ALL FRAMING LUMBER TO BE SFF #2 (UNO). ALL TREATED LUMBER TO BE 51P #2 (UNO).
  - ALL LOAD BEARING HEADERS TO BE (2) 2 x 6 (UNO).
  - INSTALL AN EXTRA JOIST UNDER WALLS PARALLEL TO FLOOR JOISTS WHERE NOTED ON THE PLANS.
  - WINDOW AND DOOR HEADERS TO BE SUPPORTED w/ (1) JACK STUD AND (1) KING STUD EA. END (UNO). SEE TABLE R602.15 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 1/16" OSB SHEATHING WITH JOINTS BLOCKED AND SECURED WITH 8d NAILS AT 3" O.C. ALONG EDGES AND 6" O.C. IN THE FIELD.
  - FOR HIGH WIND ZONES, SECURE ALL EXTERIOR WALL SHEATHING PANELS TO DOUBLE TOP PLATES, BANDS, JOISTS, AND GIRDERS WITH (2) ROWS OF 8d NAILS STAGGERED AT 3" O.C. PANELS SHALL EXTEND 12" BEYOND CONSTRUCTION JOINTS AND SHALL OVERLAP GIRDERS AND DOUBLE SILL PLATES THEIR FULL DEPTH.
  - 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 1000 LB CAPACITY UPLIFT CONNECTORS AT TOP (UNO).
  - FOR FIBERGLASS, ALUMINUM, OR COLUMN ENCL BY OTHERS, SECURE TO SLAB w/ (2) METAL ANGLES USING 2" CONC. SCREWS. FASTEN ANGLES TO NUTS AND WASHERS. 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 R602.15  
MINIMUM NUMBER OF FULL HEIGHT STUDS AT EACH END OF HEADERS IN EXTERIOR WALLS

| HEADER SPAN (FEET) | MAXIMUM STUD SPACING (INCHES) (PER TABLE R602.15) |    |
|--------------------|---|----|
|                    | 16  | 24 |
| UP TO 3'           | 1   | 1  |
| 4'                 | 2   | 1  |
| 8'                 | 3   | 2  |
| 12'                | 5   | 3  |
| 16'                | 6   | 4  |

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N.C. LICENSE NO.: C1731

FREELANCE  
H & H HOMES

DATE: OCTOBER 23, 2020  
SCALE: 1/4" = 1'-0"  
DRAWN BY: PURL HOMES  
ENGINEERED BY: WFB

SHEET 7 OF 13  
S-2a  
SECOND FLOOR FRAMING PLAN



**SCALE NOTE:**  
 LARGE FORMAT PRINTS ARE TO SCALE AS NOTED.  
 11" x 17" PRINTS ARE ONE HALF THE NOTED SCALE

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

**BRACED WALL DESIGN NOTES:**

- BRACED WALL DESIGN PER SECTION R6-0210 OF THE NRC 2018 EDITION.
- C5-USEP REFERS TO 'CONTINUOUS SHEATHING - WOOD STRUCTURAL PANELS' CONTRACTOR IS TO INSTALL 1/8" OSB ON ALL EXTERIOR WALLS ATTACHED w/ 8d NAILS 6" 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 WALL BOARD WHERE NOTED ON THE PLANS. FASTEN GB WITH 1 1/4" SCREWS OR 1 5/8" NAILS 6" SPACED 1" O.C. ALONG PANEL EDGES AND IN THE FIELD INCLUDING TOP AND BOTTOM FLATES.
- BRACED WALL DESIGN APPLIED IN WIND ZONES UP TO 130 MPH. FOR HIGH WIND ZONES, BRACE WALLS ARE TO BE CONSTRUCTED IN ACCORDANCE WITH CHAPTER 45 OF THE NRC 2018 EDITION.
- SEE NOTES AND DETAIL SHEETS FOR ADDITIONAL BRACED WALL INFORMATION.

**NOTE:**

- PER SECTION R6-0210.3.2 OF THE 2018 NRC, THE AMOUNT OF BRACING ON THE SECOND FLOOR EXCEEDS THE AMOUNT REQUIRED FOR THE FIRST FLOOR AND NO BRACED WALL ANALYSIS IS REQUIRED.
- SHEATH ALL EXTERIOR WALLS WITH 1/8" OSB SHEATHING ATTACHED WITH 8d NAILS AT 6" O.C. ALONG PANEL EDGES AND 12" O.C. IN THE FIELD.

**STRUCTURAL NOTES:**

- ALL FRAMING LUMBER TO BE SFF #2 (UNO). ALL TREATED LUMBER TO BE 5YP #2 (UNO).
- ALL LOAD BEARING HEADERS TO BE (2) 2 x 6 (UNO).
- WINDOW AND DOOR HEADERS TO BE SUPPORTED w/ (1) JACK STUD AND (1) KING STUD EA END (UNO). SEE TABLE R6-0215 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 1/8" 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 FLATES, 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 FLATES THEIR FULL DEPTH.
- REFER TO NOTES AND DETAIL SHEETS FOR ADDITIONAL STRUCTURAL INFORMATION.

TABLE R6-0215  
 MINIMUM NUMBER OF FULL HEIGHT STUDS AT EACH END OF HEADERS IN EXTERIOR WALLS

| HEADER SPAN (FEET) | MAXIMUM STUD SPACING (INCHES) (PER TABLE R6-0215) |    |
|--------------------|---|----|
|                    | 16  | 24 |
| UP TO 3'           | 1   | 1  |
| 4'                 | 2   | 1  |
| 6'                 | 3   | 2  |
| 8'                 | 5   | 3  |
| 16'                | 6   | 4  |

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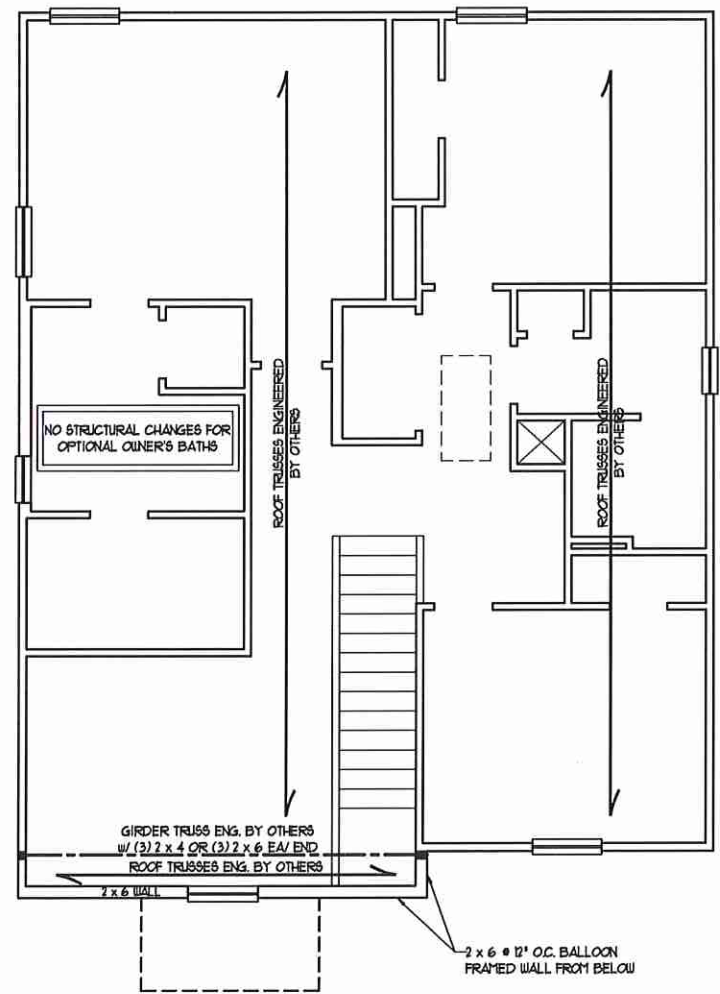
FREELANCE  
 H & H HOMES

DATE: OCTOBER 21, 2020  
 SCALE: 1/4" = 1'-0"  
 DRAWN BY: PURL LOMES  
 ENGINEER BY: WFB

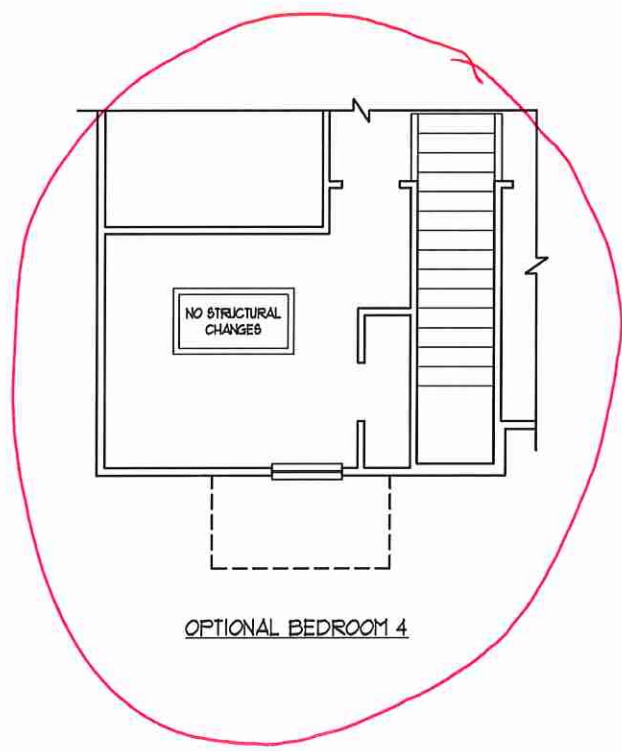
SHEET 9 OF 13  
 S-3a  
 CEILING FRAMING PLAN



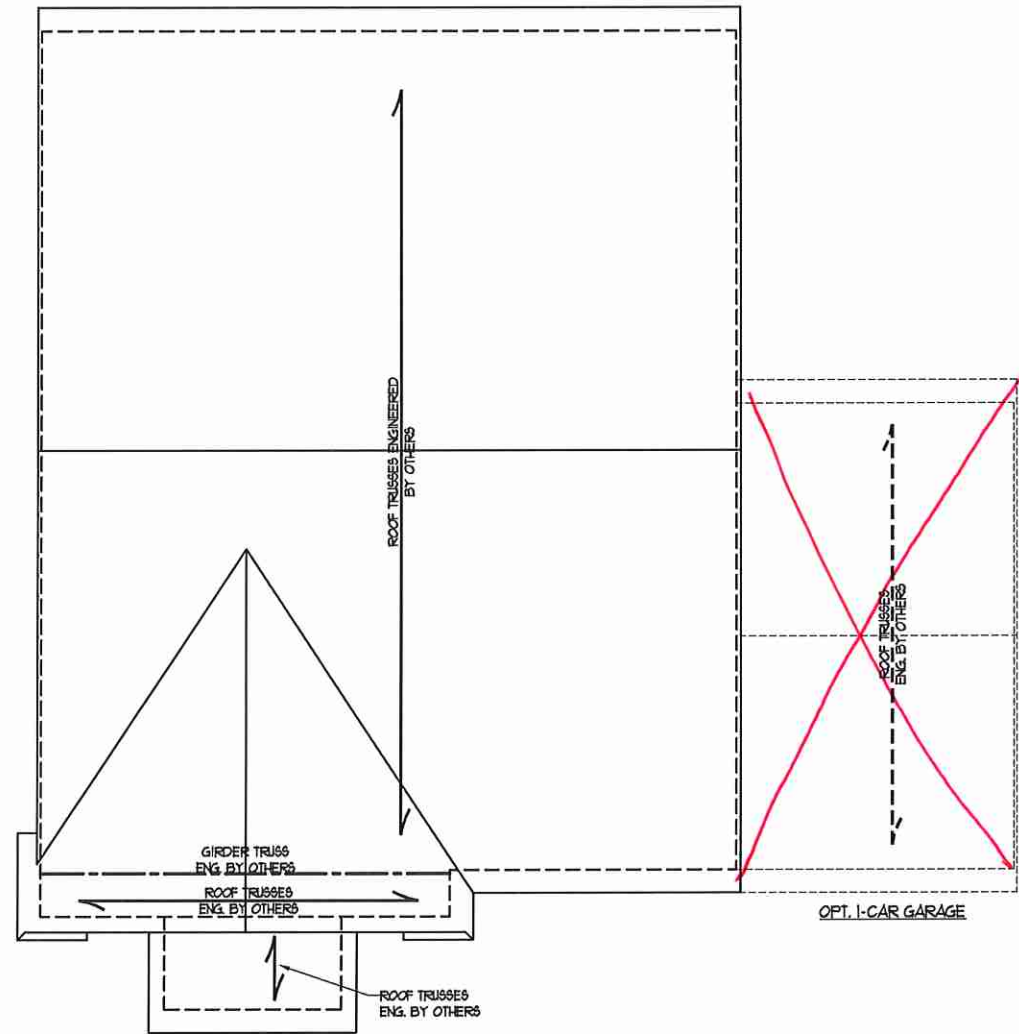
10/23/2020



ELEVATION A



SCALE NOTE:  
 LARGE FORMAT PRINTS ARE TO SCALE AS NOTED.  
 11" x 17" PRINTS ARE ONE HALF THE NOTED SCALE



ELEVATION A

- STRUCTURAL NOTES:**
1. ALL FRAMING LUMBER TO BE #2 SFF (INO).
  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.)
  5. 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.
  6. FASTEN FLAT VALLEYS TO RAFTERS OR TRUSSES WITH SIMPSON H25A 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.
  7. REFER TO SECTION R20211 OF THE 2018 NRC FOR REQUIRED UPLIFT RESISTANCE AT RAFTERS AND TRUSSES.
  8. REFER TO NOTES AND DETAIL SHEETS FOR ADDITIONAL STRUCTURAL INFORMATION.

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 N.C. LICENSE NO.: C1733

FREELANCE  
 H & H HOMES



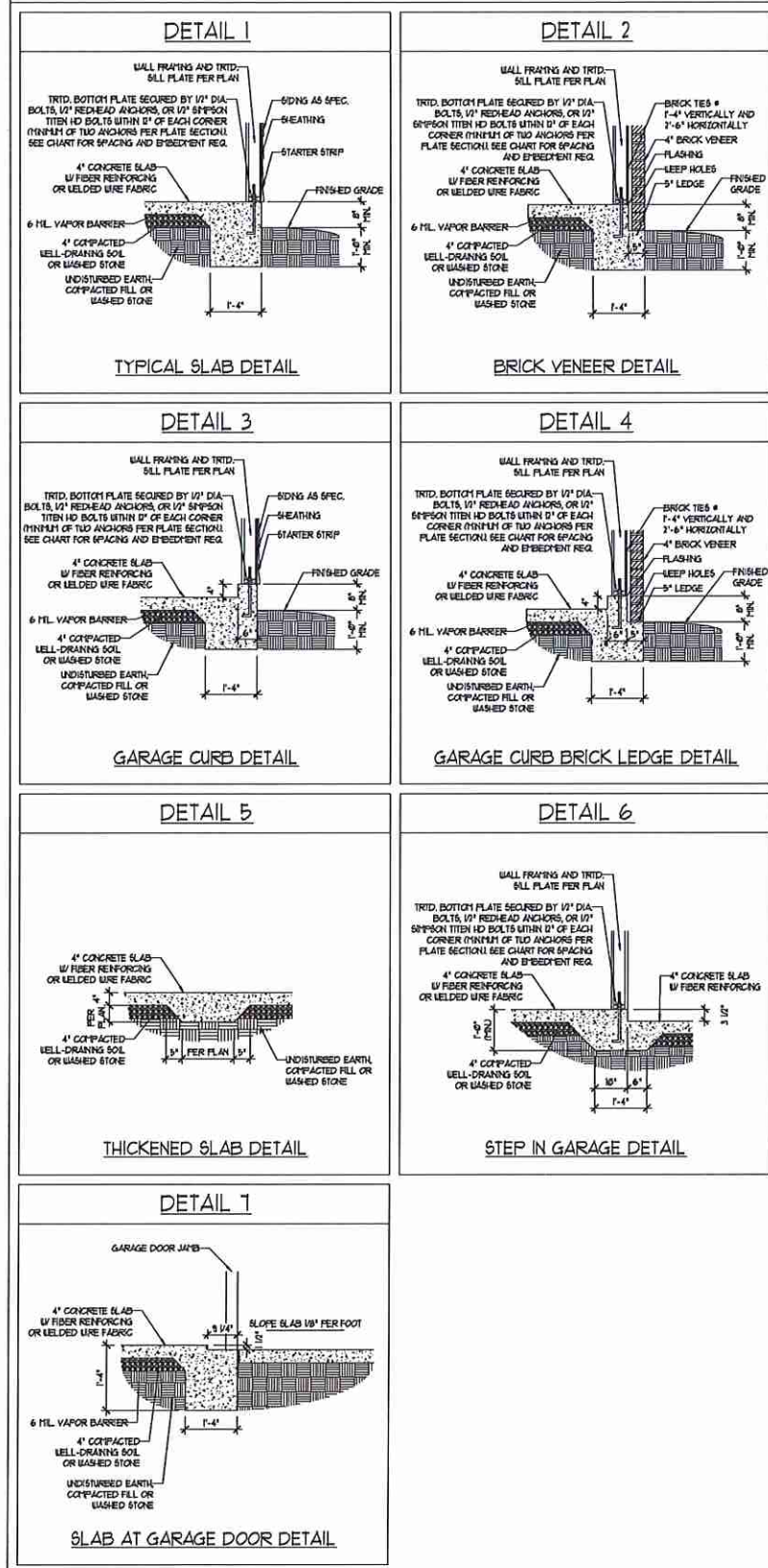
10/23/2020

|                        |
|------------------------|
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| ENGINEERED BY: WFB     |

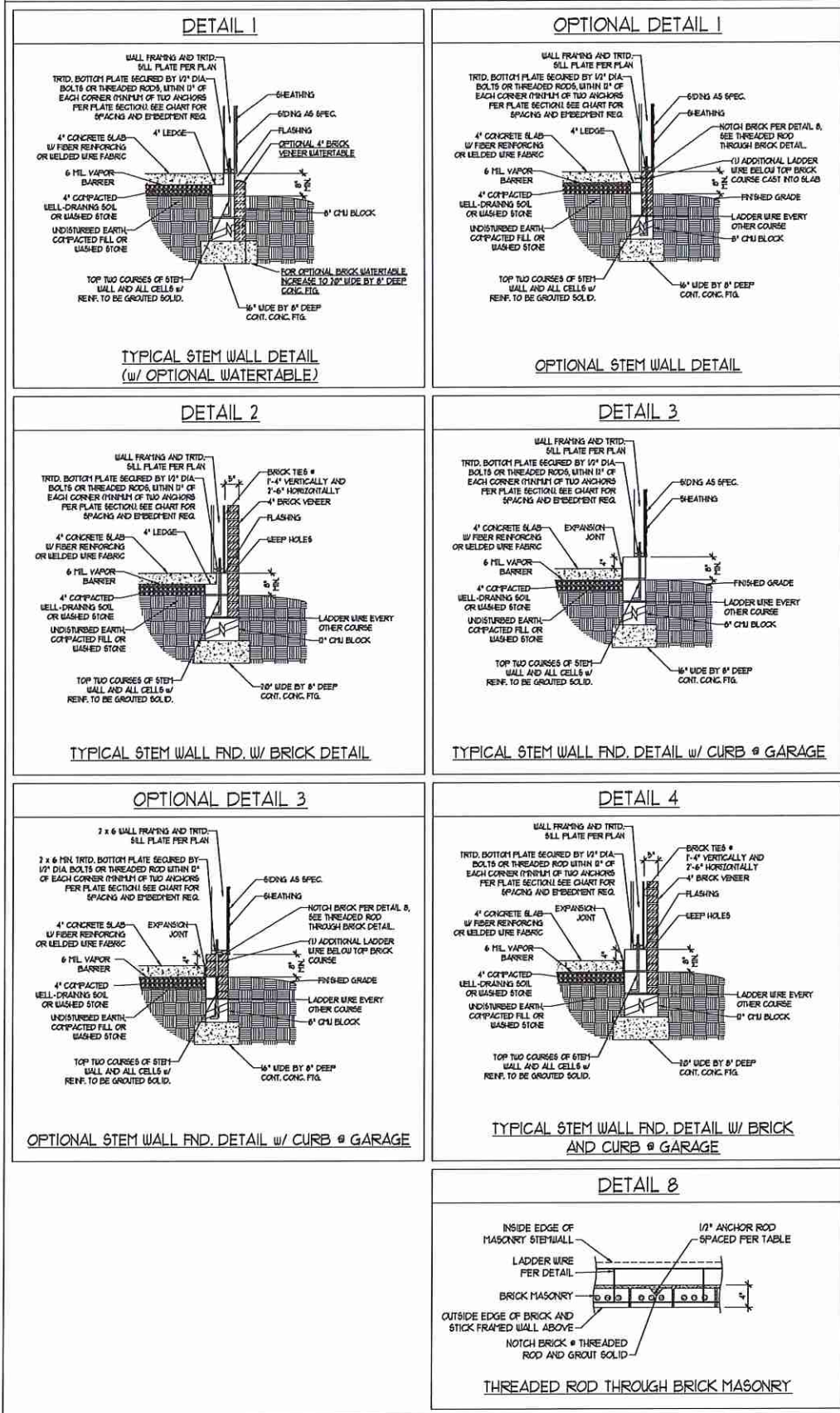
SHEET 11 OF 13  
 S4a  
 ROOF FRAMING  
 PLAN



MONOLITHIC SLAB DETAILS



STEMWALL DETAILS



MASONRY STEMWALL SPECIFICATIONS

| WALL HEIGHT (FEET) | MASONRY WALL TYPE                          |                                    |                                    |                                    |
|--------------------|--|------------------------------------|------------------------------------|------------------------------------|
|                    | 8" CMU                                     | 4" BRICK AND 4" CMU                | 4" BRICK AND 8" CMU                | 12" CMU                            |
| 2 AND BELOW        | UNGRAOUTED                                 | GROUT SOLID                        | UNGRAOUTED                         | UNGRAOUTED                         |
| 3                  | UNGRAOUTED                                 | GROUT SOLID                        | UNGRAOUTED                         | UNGRAOUTED                         |
| 4                  | GROUT SOLID                                | GROUT SOLID w/ #4 REBAR @ 48" O.C. | GROUT SOLID                        | GROUT SOLID w/ #4 REBAR @ 64" O.C. |
| 5                  | GROUT SOLID w/ #4 REBAR @ 36" O.C.         | NOT APPLICABLE                     | GROUT SOLID w/ #4 REBAR @ 36" O.C. | GROUT SOLID w/ #4 REBAR @ 64" O.C. |
| 6                  | GROUT SOLID w/ #4 REBAR @ 24" O.C.         | NOT APPLICABLE                     | GROUT SOLID w/ #4 REBAR @ 24" O.C. | GROUT SOLID w/ #4 REBAR @ 64" O.C. |
| 1 AND GREATER      | ENGINEERED DESIGN BASED ON SITE CONDITIONS |                                    |                                    |                                    |

- STRUCTURAL NOTES:
1. WALL HEIGHT MEASURED FROM TOP OF FOOTING TO TOP OF THE WALL.
  2. THE 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 CONFIN TO HOUSE.
  4. BACKFILL OF CLEAN #1 / #2 WASHED STONE IS ALLOWABLE.
  5. BACKFILL OF WELL DRAINED OR SAND - GRAVEL MIXTURE SOILS (45 PSF/FT BELOW GRADE) CLASSIFIED AS GROUP 1 ACCORDING TO UNIFIED SOILS CLASSIFICATION SYSTEM IN ACCORDANCE WITH TABLE R405.1 OF THE 2018 INTERNATIONAL RESIDENTIAL CODE ARE ALLOWABLE.
  6. PREP SLAB PER R506.2.1 AND R506.2.2 BASE OF THE 2018 INTERNATIONAL RESIDENTIAL CODE. MINIMUM 24" LAP SPlice LENGTH.
  7. LOCATE REBAR IN CENTER OF FOUNDATION WALL.
  8. WHERE REQUIRED, FILL BLOCK SOLID WITH TYPE "S" MORTAR OR 3000 PSI GROUT. USE OF "LOW LET GROUTING" METHOD REQUIRED WHEN FILLING WALLS WITH GROUT AT HEIGHTS OF 5' AND GREATER.

ANCHOR SPACING AND EMBEDMENT

| WIND ZONE | 120 MPH    | 130 MPH                              |
|-----------|------------|--------------------------------------|
| SPACING   | 6'-0" O.C. | 4'-0" O.C.                           |
| EMBEDMENT | 1'         | 15" INTO MASONRY<br>1" INTO CONCRETE |



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120 MPH - 130 MPH ULTIMATE DESIGN WIND SPEED  
FOUNDATION DETAILS

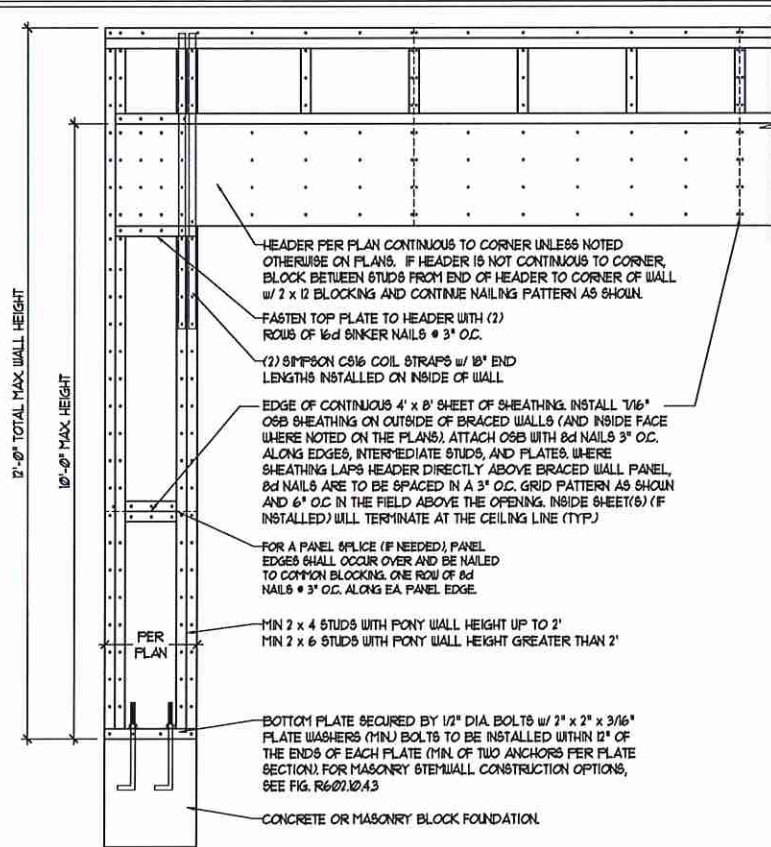
DATE: NOVEMBER 14, 2018  
SCALE: NTS  
DRAWN BY: JST  
ENGINEERED BY: JIS

D-1  
FOUNDATION DETAILS

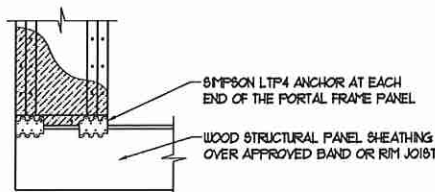


**GENERAL WALL BRACING NOTES:**

1. WALL BRACING DESIGNED IN ACCORDANCE WITH CHAPTER 6 OF THE 2018 NC RESIDENTIAL BUILDING CODE (NCRBC). TABLES AND FIGURES REFERENCED ARE FROM THE 2018 NCRBC.
2. SEE THIS SHEET FOR GENERAL DETAILS. REFER TO THE 2018 NCRBC FOR ADDITIONAL INFORMATION AS NEEDED.
3. BRACED EXTERIOR WALLS SUPPORTING ROOF TRUSSES AND RAFTERS, INCLUDING STORIES BELOW THE TOP FLOOR, HAVE BEEN DESIGNED PER R602.3.5 (3). WALL SHEATHING AND FASTENERS HAVE BEEN DESIGNED TO RESIST COMBINED UPLIFT AND SHEAR FORCES IN ACCORDANCE WITH ACCEPTED ENGINEERED PRACTICE.
4. SEE STRUCTURAL SHEETS FOR BRACED WALL LOCATIONS, DIMENSIONS, HOLD DOWN TYPE AND LOCATIONS, BRACED WALL LINE KEY WITH WALL DESIGN SUMMARY OF REQUIRED/PROVIDED TOTALS FOR EACH WALL LINE AND ANY SPECIAL NOTES OR REQUIREMENTS.
5. ALL EXTERIOR WALLS ARE TO BE SHEATHED WITH CS-USP 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-USP REFERS TO THE "CONTINUOUS SHEATHING - WOOD STRUCTURAL PANELS" WALL BRACING METHOD. 1/16" OSB SHEATHING IS TO BE INSTALLED ON ALL EXTERIOR WALLS ATTACHED W/ 6d COMMON NAILS OR 8d (2 1/2" LONG x 0.13" DIAMETER) NAILS SPACED 6" O.C. ALONG PANEL EDGES AND 12" O.C. IN THE FIELD (U.N.O.).
8. GB REFERS TO THE "GYPSUM BOARD" WALL BRACING METHOD. 1/2" (MIN) GYPSUM WALL BOARD IS TO BE INSTALLED ON BOTH SIDES OF THE BRACED WALL, FASTENED WITH 1 1/4" SCREWS OR 1 5/8" NAILS SPACED 1" O.C. ALONG PANEL EDGES INCLUDING TOP AND BOTTOM FLATES 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.
9. REQUIRED BRACED WALL LENGTH FOR EACH SIDE OF THE CIRCUMSCRIBED RECTANGLE ARE INTERPOLATED PER TABLE R602.10.3. METHOD CS-USP CONTRIBUTES ITS ACTUAL LENGTH, METHOD GB CONTRIBUTES 5 TIMES ITS ACTUAL LENGTH, AND METHOD PF CONTRIBUTES 15 TIMES ITS ACTUAL LENGTH.



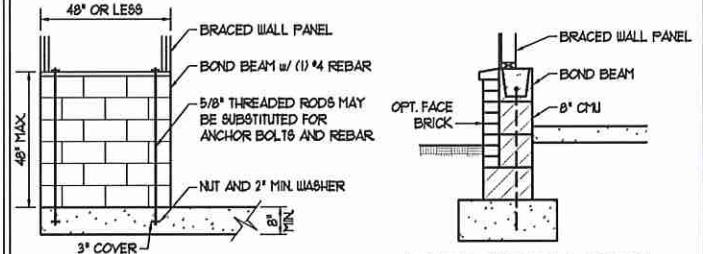
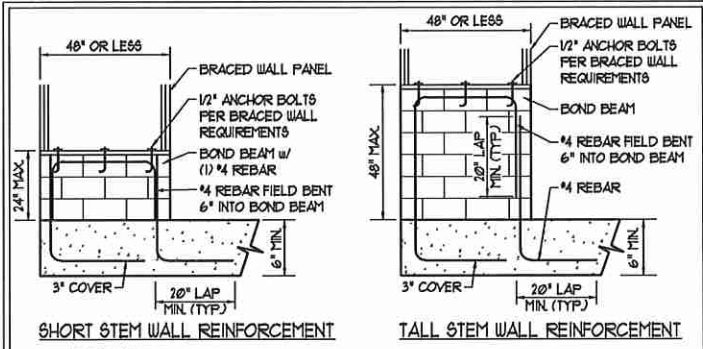
OVER CONCRETE OR MASONRY BLOCK FOUNDATION



OVER RAISED WOOD FLOOR - FRAMING ANCHOR OPTION

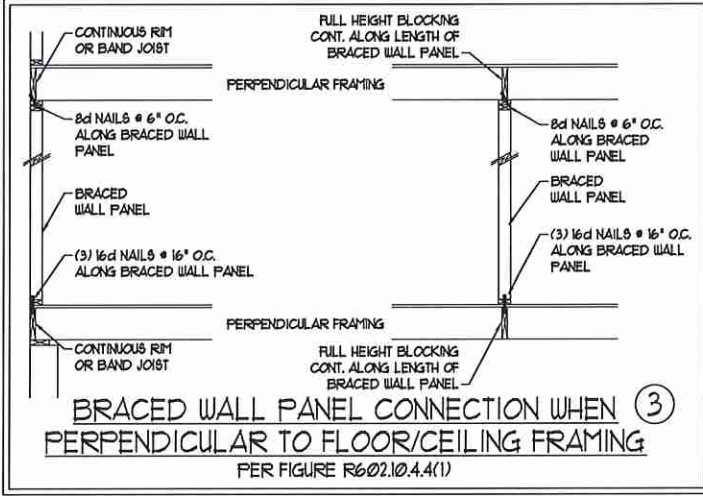
\* APPLICABLE W/ GREATER THAN 12" KNEE WALL HEIGHTS IN CRAWL SPACE AND ABOVE FINISHED BASEMENT WALLS \*

**METHOD PF-PORTAL FRAME DETAIL ①**

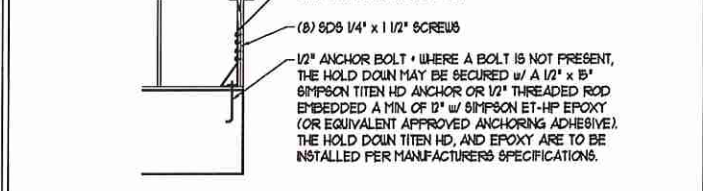


RODS MAY BE INSTALLED USING AN ADHESIVE ANCHORING SYSTEM WITH A MINIMUM TENSILE CAPACITY OF 3150 LBS AND INSTALLED IN ACCORDANCE WITH MANUFACTURER'S SPECS.

**OPTIONAL STEM WALL REINFORCEMENT**  
**NOTE: GROUT BOND BEAMS AND ALL CELLS WHICH CONTAIN REBAR, THREADED RODS AND ANCHOR BOLTS**  
**MASONRY STEM WALLS SUPPORTING BRACED WALL PANELS ②**  
PER FIGURE R602.10.4.3

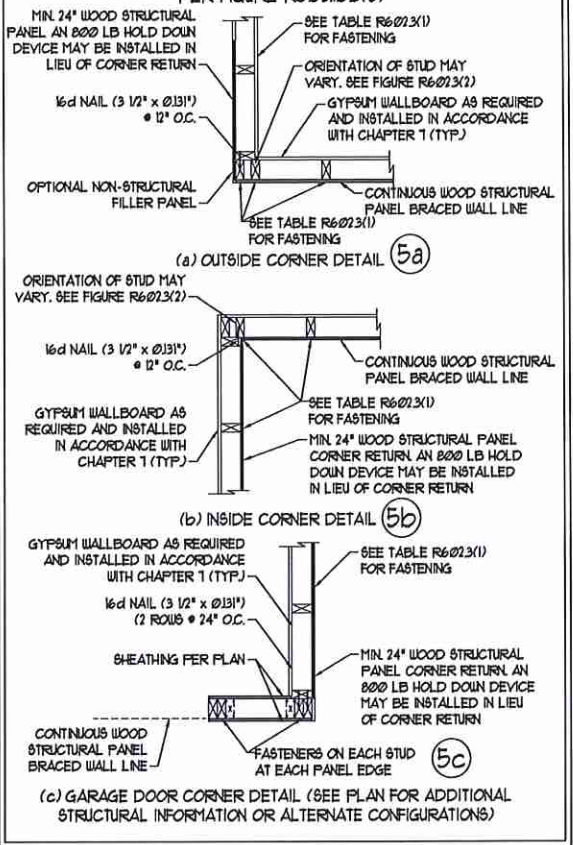


**BRACED WALL PANEL CONNECTION WHEN PERPENDICULAR TO FLOOR/CEILING FRAMING ③**  
PER FIGURE R602.10.4.4(1)

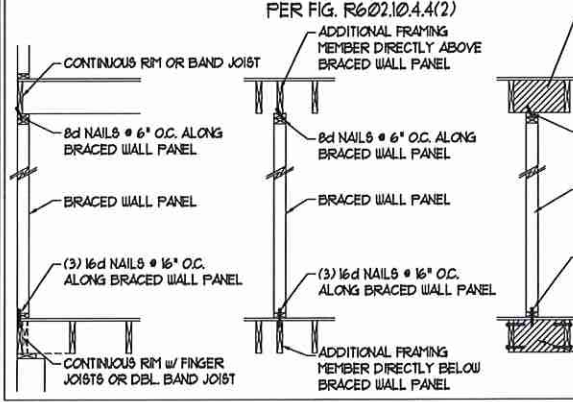


**HOLD DOWN DETAIL FOR MASONRY FOUNDATION OR MONOLITHIC SLAB ④**  
\* APPLICABLE ONLY WHERE SPECIFIED ON PLAN \*

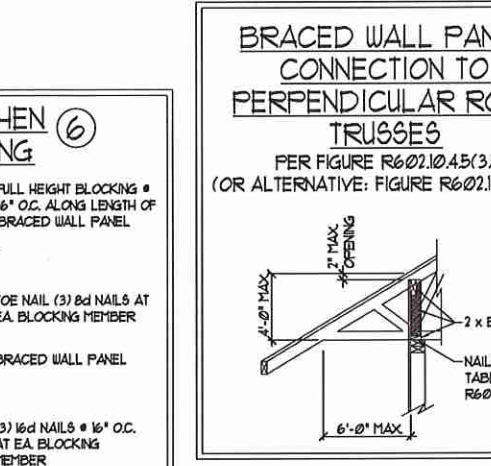
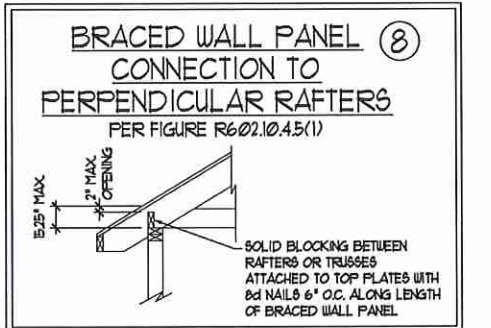
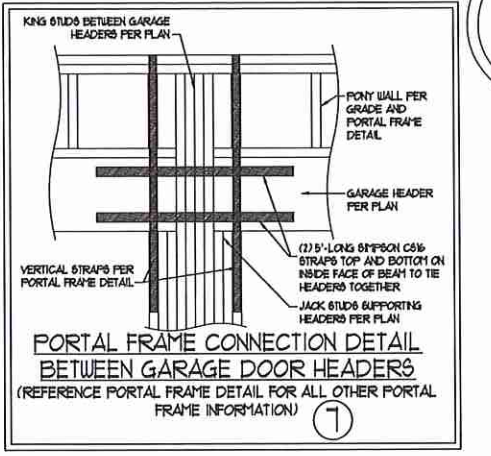
**TYPICAL EXTERIOR CORNER FRAMING FOR CONTINUOUS SHEATHING ⑤**  
PER FIGURE R602.10.3(5)



**BRACED WALL PANEL CONNECTION WHEN PARALLEL TO FLOOR/CEILING FRAMING ⑥**  
PER FIG. R602.10.4.4(2)



**SCALE NOTE:**  
LARGE FORMAT PRINTS ARE TO SCALE AS NOTED.  
11" x 17" PRINTS ARE ONE HALF THE NOTED SCALE



10/23/2020

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N.C. LICENSE NO.: C-1733

120 MPH - 130 MPH ULTIMATE DESIGN WIND SPEED  
WALL BRACING NOTES AND DETAILS

DATE: OCTOBER 30, 2018  
SCALE: 1/4" = 1'-0"  
DRAWN BY: JST  
ENGINEERED BY: JST

D-2  
BRACED WALL NOTES AND DETAILS AND PF DETAILS



SCALE NOTE:  
LARGE FORMAT PRINTS ARE TO SCALE AS NOTED.  
11" x 17" PRINTS ARE ONE HALF THE NOTED SCALE

**GENERAL NOTES**

- ENGINEER'S SEAL APPLIES ONLY TO STRUCTURAL COMPONENTS INCLUDING ROOF RAFTERS, HIPS, VALLEYS, RIDGES, FLOORS, WALLS, BEAMS, HEADERS, 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.
  - ALL CONSTRUCTION SHALL CONFORM TO THE LATEST REQUIREMENTS OF THE NORTH CAROLINA RESIDENTIAL CODE (NRC), 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 CONTRACTOR'S FAILURE TO CARRY OUT THE CONSTRUCTION WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
  - STRUCTURAL DESIGN BASED ON THE PROVISIONS OF THE NRC, 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 LB OR 50 (PLF)                                | 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: P <sub>g</sub> | 20 (PSF)  |                 |                                   |
- I-JOIST SYSTEMS DESIGNED WITH 12 PSF DEAD LOAD AND DEFLECTION (IN) OF L/400
  - FLOOR TRUSS SYSTEMS DESIGNED WITH 15 PSF DEAD LOAD
- FOR 15 AND 20 MPH WIND ZONES, FOUNDATION ANCHORAGE IS TO COMPLY WITH SECTION R402.1.6 OF THE NRC, 2018 EDITION. FOR 30 MPH, 40 MPH, AND 50 MPH WIND ZONES, FOUNDATION ANCHORAGE IS TO COMPLY WITH SECTION 450.4 OF THE NRC, 2018 EDITION.
  - ENERGY EFFICIENCY COMPLIANCE AND INSULATION VALUES OF THE BUILDING TO BE IN ACCORDANCE WITH CHAPTER 11 OF THE NRC, 2018 EDITION.

**FOOTING AND FOUNDATION NOTES**

- FOUNDATION DESIGN BASED ON A MINIMUM ALLOWABLE BEARING CAPACITY OF 2000 PSF. CONTACT GEOTECHNICAL ENGINEER IF BEARING CAPACITY IS NOT ACHIEVED.
- 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 NRC, 2018 EDITION.
- 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 SAILED WITHIN 4 TO 12 HOURS OF CONCRETE FINISHING AND WALL LOCATIONS HAVE BEEN MARKED. ADJUST WHERE NECESSARY.
- CONCRETE SHALL CONFORM TO SECTION R402.2 OF THE NRC, 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.
- MASONRY UNITS TO CONFORM TO ACE 530/ASCE 5/TMS 402. MORTAR SHALL CONFORM TO ASTM C210.
- 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. PIERS MAY BE FILLED SOLID WITH CONCRETE OR TYPE N OR S MORTAR. PIERS AND WALLS SHALL BE CAPPED WITH 8" OF SOLID MASONRY.
- 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.
- ALL CONCRETE AND MASONRY FOUNDATION WALLS ARE TO BE CONSTRUCTED IN ACCORDANCE WITH THE PROVISIONS OF SECTION R404 OF THE NRC, 2018 EDITION OR IN ACCORDANCE WITH ACI 318, ACI 332, NCHA TR-8-A OR ACE 530/ASCE 5/TMS 402. MASONRY FOUNDATION WALLS ARE TO BE REINFORCED PER TABLE R404.1(1), R404.1(2), R404.1(3), OR R404.1(4) OF THE NRC, 2018 EDITION. CONCRETE FOUNDATION WALLS ARE TO BE REINFORCED PER TABLE R404.1(5) OF THE NRC, 2018 EDITION. STEP CONCRETE FOUNDATION WALLS TO 2 x 6 FRAMED WALLS AT 16" O.C. WHERE GRADE PERMITS (UNO).

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**FRAMING NOTES**

- 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 TYP MINIMUM (Fb = 975 PSI, Fv = 475 PSI, E = 1600000 PSI) UNLESS NOTED OTHERWISE (UNO).
- LAMINATED VENEER LUMBER (LVL) SHALL HAVE THE FOLLOWING MINIMUM PROPERTIES: Fb = 2600 PSI, Fv = 285 PSI, E = 1300000 PSI. LAMINATED STRAND LUMBER (LSL) SHALL HAVE THE FOLLOWING MINIMUM PROPERTIES: Fb = 2375 PSI, Fv = 310 PSI, E = 1500000 PSI. PARALLEL STRAND LUMBER (PSL) UP TO 1" DEPTH SHALL HAVE THE FOLLOWING MINIMUM PROPERTIES: Fc = 2900 PSI, E = 1800000 PSI. PARALLEL STRAND LUMBER (PSL) MORE THAN 1" DEPTH SHALL HAVE THE FOLLOWING MINIMUM PROPERTIES: Fc = 2900 PSI, E = 2000000 PSI. INSTALL ALL CONNECTIONS PER MANUFACTURER'S SPECIFICATIONS.
- 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 |
- 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               |
| B. CONCRETE                | (2) 1/2" DIA x 4" WEDGE ANCHORS                 |
| C. MASONRY (FULLY GROUTED) | (2) 1/2" DIA x 4" LONG SIMPSON TITEN HD ANCHORS |

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.
- 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.
- ALL LOAD BEARING HEADERS TO CONFORM TO TABLE R602.1(1) AND R602.1(2) OF THE NRC, 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 R602.1.5 OF THE NORTH CAROLINA RESIDENTIAL CODE, 2018 EDITION.
- 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).
- 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).
- 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.
- 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.
- 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.
- 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 (UNO). 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 R103.2(2) OF THE NRC, 2018 EDITION.
- 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).
- 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).
- ALL 4 x 4 AND 6 x 6 POSTS TO BE INSTALLED WITH 1000 LB CAPACITY UPLIFT CONNECTORS TOP AND BOTTOM (UNO). POSTS MAY BE SECURED USING ONE SIMPSON L6 OR L752 UPLIFT CONNECTOR FASTENED TO THE BAND AT THE BOTTOM AND THE BEAM AT THE TOP OF EACH POST. ONE 16" SECTION OF SIMPSON C916 COIL STRAPPING WITH (8) 8d HDG NAILS AT EACH END MAY BE USED IN LIEU OF EACH TWIN STRAP IF DESIRED. FOR MASONRY OR CONCRETE FOUNDATION USE SIMPSON POST BASE.



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120 MPH - 130 MPH ULTIMATE DESIGN WIND SPEED  
STANDARD STRUCTURAL NOTES

DATE: NOVEMBER 14, 2018  
DRAWN BY: JES  
ENGINEERED BY: JST

S-0  
STRUCTURAL NOTES

10/23/2020