

# VANTAGE H&H HOMES

## PLAN REVISIONS

11-06-11	COMPLETED CONSTRUCTION DOCUMENTS INCLUDING CLIENT REVIEW COMMENTS.
11-11-11	MIRRORED PLANS TO CREATE LEFT HAND GARAGE VERSION.
02-12-13	STANDARD CLIENT CHANGES PER CLIENT WALK-THRU NOTES DATED 01-14-13. CHANGES INCLUDE BUT NOT LIMITED TO THE FOLLOWING: RELOCATE HOSE BIBBS, CHANGE BATH 2 PLUMBING WALL TO 2x4, ADD FLOOR BREAK AT LAUNDRY CLOSET, CHANGE 48" SQUARE PATIO TO PAD, CHANGE HALL 4-0 BI-FOLD TO 3-0, INCORPORATED DEAD SPACE AT MASTER W.I.C. INTO W.I.C., FLIP MASTER SHOWER, REMOVE ANGLED WALL IN GATHERING ROOM AND SHIFT UP CLOSET IN BEDROOM 2, REMOVE SIDE WINDOW AT OWNERS SUITE, CHANGE 2x6 LINEN CLOSET WALL IN MASTER BATH TO 2x4, EXTEND FRONT PORCH SLAB TO OUTER CORNER, MOVE FRONT PORCH BEAM BACK 6" AND ELEVATIONS 'A' AND 'B' ONLY, CHANGE 2x4 WALL SEPERATING FLEX AND GARAGE TO 2x6, ADJUST FLEX ROOM AND BEDROOM 2 ROOM SIZES PER WALL CHANGES AND ADJUST FLEX WINDOW ACCORDINGLY, ADJUST ALL FLOOR PLAN OPTIONS TO MATCH REVISED FLOOR PLAN, SHIFT FAN IN GATHERING ROOM, REMOVE LIGHT AND SWITCH IN BATH 2 HALLWAY AND OWNERS SUITE HALLWAY, SHIFT BACK FOYER LIGHT, ADD THERMOSTAT ON WALL ADJACENT TO KITCHEN, MOVE FLOURESCENT IN KITCHEN AND MOVE PENDANT IN CAFE.  ALL ELEVATIONS - CHANGE HIP ROOF AT REAR OF HOUSE TO GABLE WITH FLUSH OVERHANG, CHANGE OPT. 3 CAR GARAGE ROOF TO GABLE WITH FLUSH OVERHANG AT SIDE AND UPDATE GARAGE DOOR.
02-19-13	COMPLETED CLIENT COMMENTS INCLUDING: REMOVED GATHERING ROOM ANGLED WALL, ADJUSTED CLOSET IN BEDROOM 2, ADDED OPTIONAL (2) 2-6 SWING DOORS AT YOUR WAY ROOM AND CHANGED OPT. 3 CAR GARAGE SIDE ROOF TO GABLE WITH FLUSH OVERHANG ON ALL ELEVATIONS.
11/07/10	UPDATED DIMENSIONS FOR PAD AND PATIO. CHANGED WASHER, DRYER, AND REFRIGERATOR TO OPTIONAL COMPONENTS. VERIFIED HOR HGTS ARE 1'-0". VERIFIED MASTERS WAS CHANGED TO OWNER'S. ADDED COACH LIGHT AT GARAGE AND GARAGE OPTION. CHANGE 2x4 WALL AT REAR GARAGE WALL TO 2x6. ADDED ROOF VENT CALCULATIONS. VERIFIED VENTILATION AND LIGHT REQMTS AT OWNER'S BEDROOM MEETS CODE. UPDATED ALL CEILING FANS TO BE OPTIONAL. CHANGE HOSE BIBBS LOCATIONS TO HEATED EXTERIOR WALLS. UPDATE FOR NC RC 2010 AND SC IRC 2010. ADDED INSULATION DETAILS TO PLAN SHEETS. UPDATED SLAB INTERFACE PLAN AND SLAB OPTIONS ON SHT A10. CHANGED ALL CEILING FANS TO OPTIONAL. CREATED AND REVISED CUTSHEETS.

SQUARE FOOTAGE			
HEATED AREAS	ELEV 'A'	ELEV 'B'	ELEV 'C'
MAN FLOOR	510 SF	510 SF	510 SF
TOTAL HEATED SF	510 SF	510 SF	510 SF
UNHEATED AREAS			
1-CAR GARAGE	740 SF	740 SF	740 SF
OPT. 1-CAR GARAGE	740 SF	740 SF	740 SF
COVERED AREAS			
FRONT PORCH	41 SF	41 SF	41 SF
OPT. COVERED PATIO	80 SF	80 SF	80 SF
UNCOVERED AREA			
PAD	16 SF	16 SF	16 SF
OPT. EXTENDED PATIO	150 SF	150 SF	150 SF
HEATED OPTIONS			
OPT. BEDROOM 3	141 SF	141 SF	141 SF

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Inventory Marked

CSQ000076



JOB NUMBER: 27187.02  
C/O FILE NAME: VANTAGE-R  
ISSUED: 11-08-17  
REVISED: 02-10-20



150 SEATO STREET EAST  
COLUMBIA, MISSISSIPPI 39277  
815 • 925 • 1500 TEL  
815 • 925 • 1500 FAX  
WWW.DAVISBEWS.COM  
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EST. 1994

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

VANTAGE (Garage Right)  
H&H HOMES

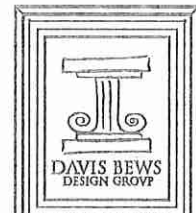
1514

TITLE  
REVISION LOG

SHEET  
CS



JOB NUMBER	27167.02
CAD FILE NAME	VANTAGE-R
ISSUED	11-03-17
REVISED	02-10-20



180 STATE ROAD EAST  
 CLEARWATER, FLORIDA 34617  
 813-523-1300 TEL  
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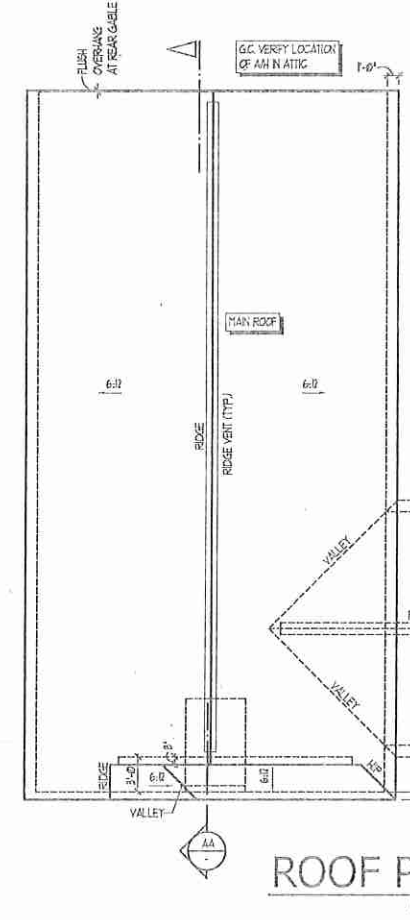
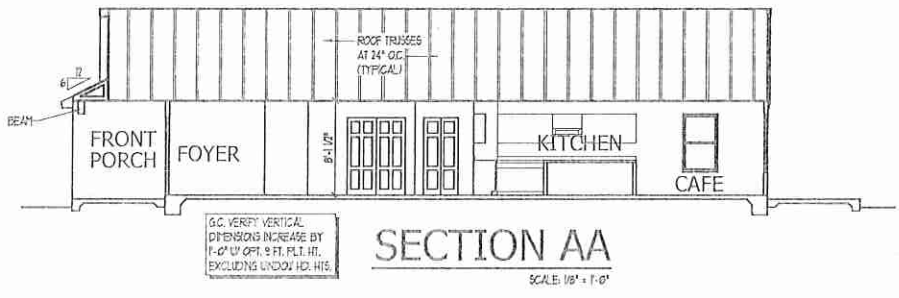
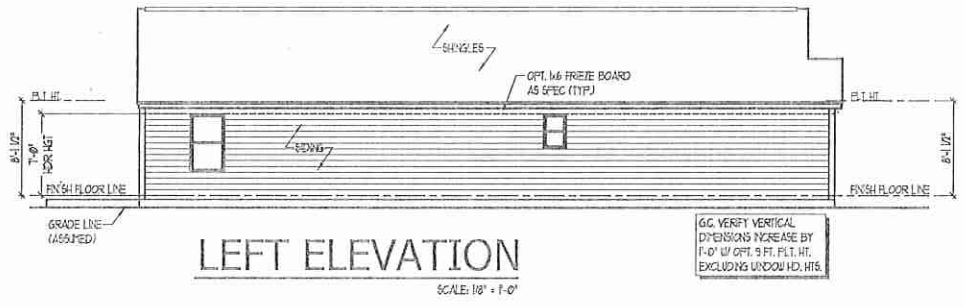
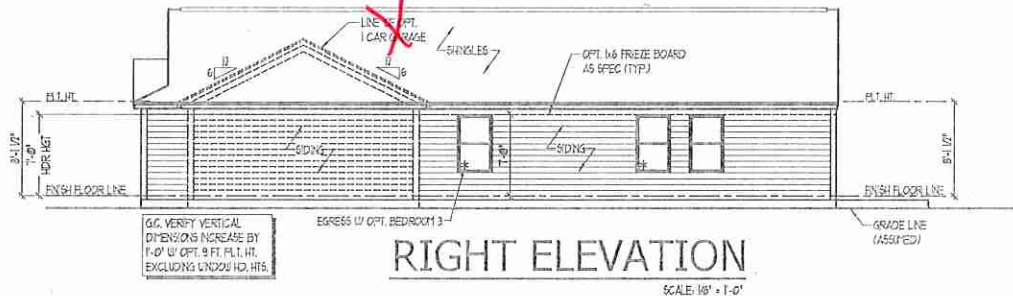
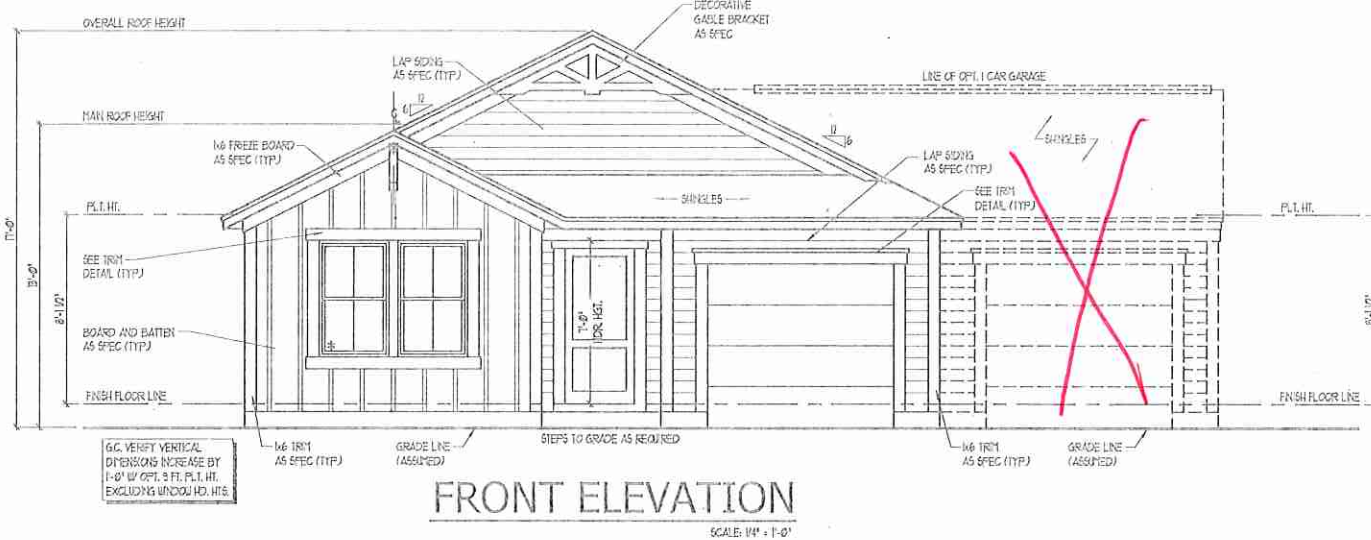
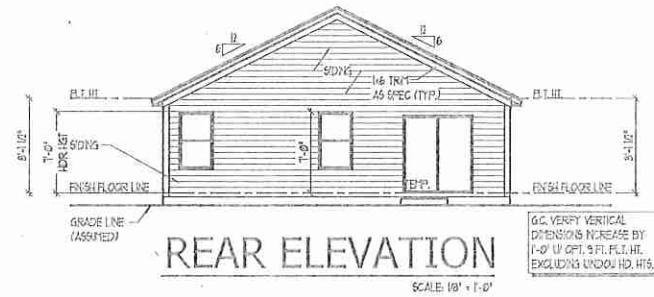
DRAWINGS ON 1/2" X 1/2" SHEETS ARE ONE HALF THE SCALE NOTED

VANTAGE (Garage Right)  
 H&H HOMES

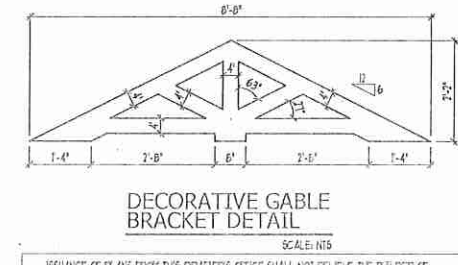
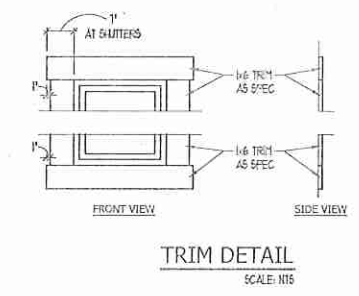
1514

TITLE  
 FRONT ELEVATION  
 REAR ELEVATION  
 RIGHT AND LEFT ELEVATIONS  
 SECTIONAL  
 ROOF PLAN  
 MISC DETAILS

SHEET  
 A4.0



TOTAL UNDER ROOF AREA:	1758 SQ. FT. / 500 =	1758 SQ. FT.
VENTING AREA REQUIRED:	LOWER: 2.93 UPPER: 2.93	5.86 SQ. FT.
TOTAL REQUIREMENTS:		
LOWER AREA VENTING		
SOFFIT VENT	SIZE: PER UNIT: * UNITS: PROVIDED:	
	041 SPLIT: 317	12.7
LOWER AREA VENTING PROVIDED:		
UPPER AREA VENTING		
RIDGE VENT	SIZE: PER UNIT: * UNITS: PROVIDED:	
	325 SPLIT: 56-6	7.0
UPPER AREA VENTING PROVIDED:		
TOTAL AREA PROVIDED		19.7
SOFFIT AND RIDGE VENT		



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ELEVATION "B" - FARMHOUSE





JOB NUMBER	27167.02*
CAD FILE NAME	VANTAGE-R
ISSUED	11-08-17
REVISED	02-10-20

**DAVIS BEWS**  
DESIGN GROVE

150 SE 4TH STREET EAST  
GULFSTREAM, FLORIDA 32077  
813 - 522 - 1500 TEL.  
813 - 522 - 1800 FAX  
WWW.DAVISBEWS.COM

TALLAHASSEE • EST. 1994

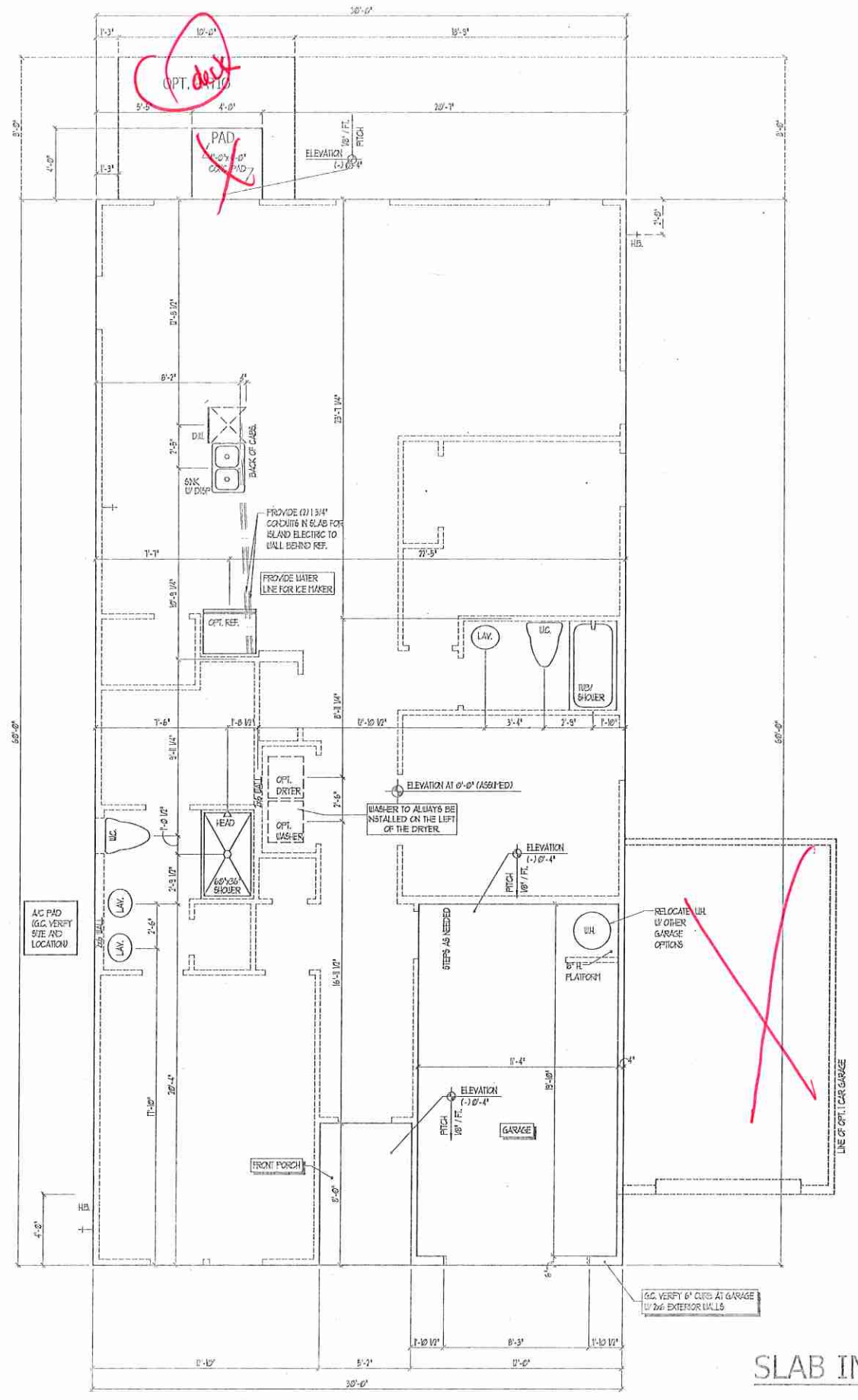
DRAWINGS ON 11"x17"  
SHEET ARE ONE HALF  
THE SCALE NOTED

VANTAGE (Garage Right)  
H&H HOMES

1514

TITLE  
SLAB INTERFACE PLAN

SHEET  
A1.0



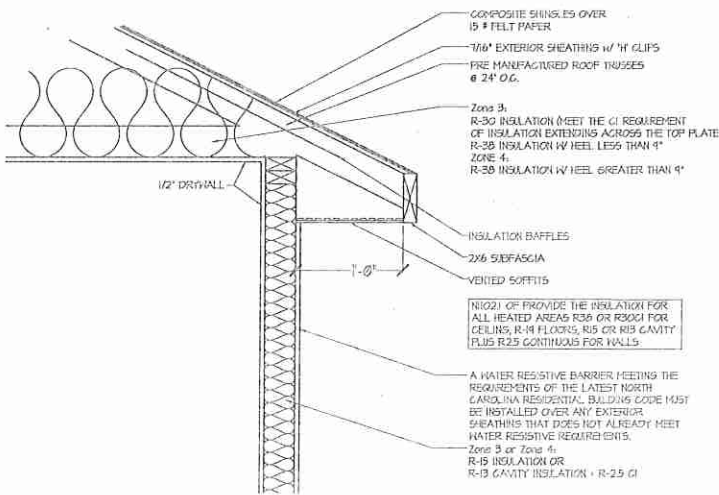
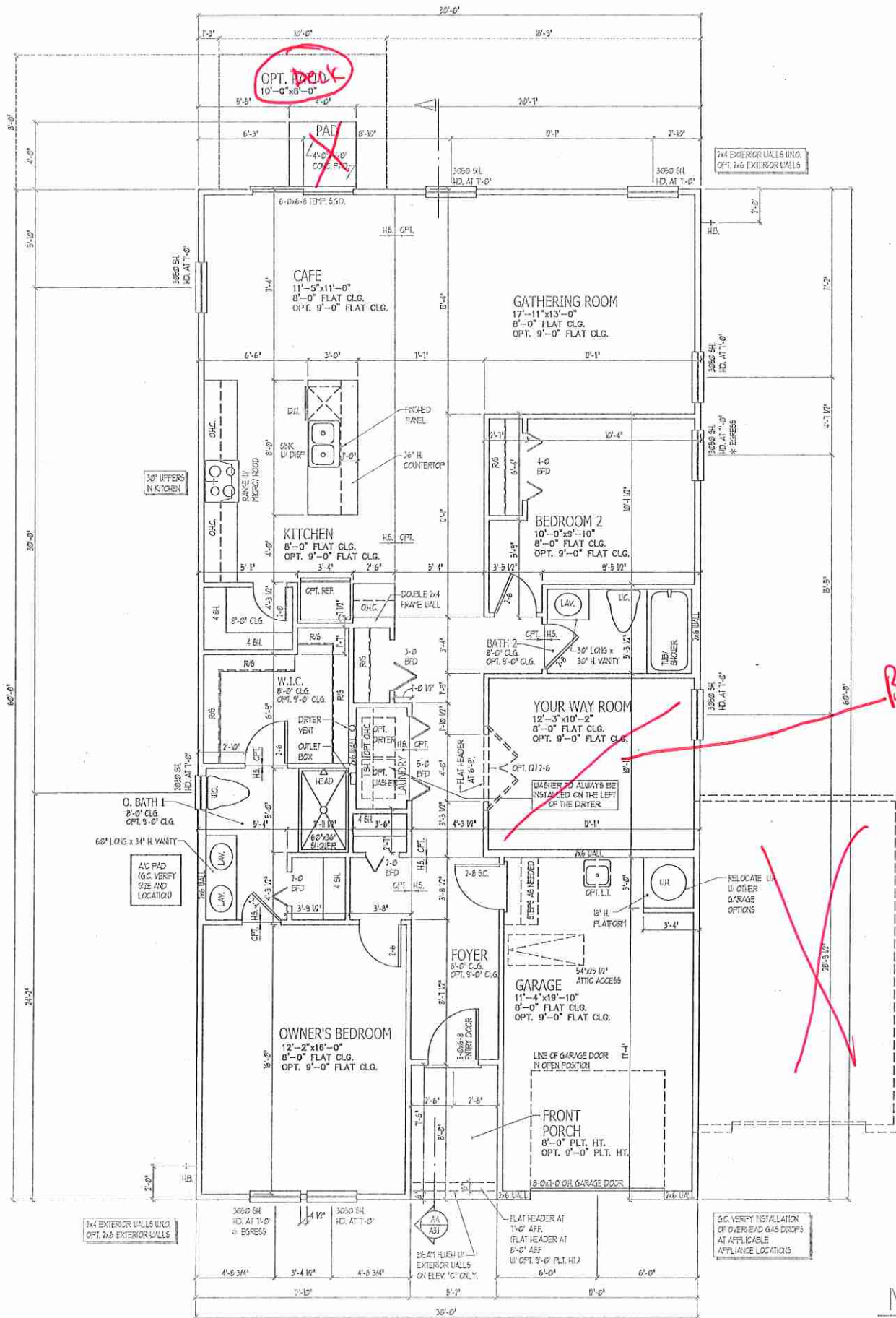
SLAB INTERFACE PLAN  
SCALE 1/4" = 1'-0"

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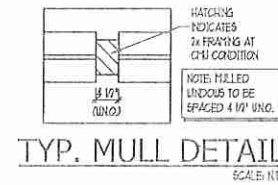


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INSULATION DETAIL

SQUARE FOOTAGE			
HEATED AREAS	ELEV 'A'	ELEV 'B'	ELEV 'C'
MAN FLOOR	515 SF	515 SF	515 SF
TOTAL HEATED SF	515 SF	515 SF	515 SF
UNHEATED AREAS			
1-CAR GARAGE	240 SF	240 SF	240 SF
OPT. 1-CAR GARAGE	240 SF	240 SF	240 SF
COVERED AREAS			
FRONT PORCH	4 SF	4 SF	4 SF
OPT. COVERED PATIO	80 SF	80 SF	80 SF
UNCOVERED AREA			
PAD	16 SF	16 SF	16 SF
OPT. EXTENDED PATIO	50 SF	50 SF	50 SF
HEATED OPTIONS			
OPT. BEDROOM 3	14 SF	14 SF	14 SF



TYP. MULL DETAIL  
SCALE: N.T.S.

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



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LOG NUMBER: 27167.02  
 CAD FILE NAME: VANTAGE-R  
 ISSUED: 11-08-17  
 REVISED: 02-10-20

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 GREENSBORO, NORTH CAROLINA 27407  
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DRAWINGS ON 11"x17" SHEET ARE ONE HALF THE SCALE NOTED

VANTAGE (Garage Right)  
 H&H HOMES

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1514

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TITLE  
 MAIN FLOOR PLAN

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SHEET  
 A2.0



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ISSUED	11-08-17
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**DAVIS BEWS**  
DESIGN GROUP

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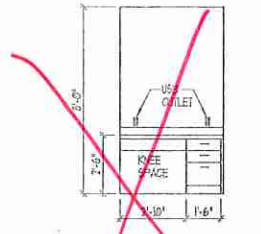
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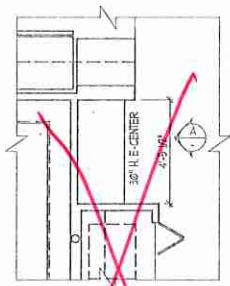
1514

TITLE  
PLAN OPTIONS

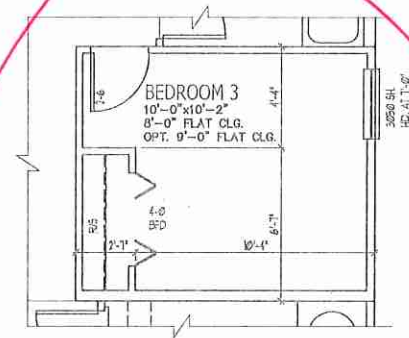
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A2.1



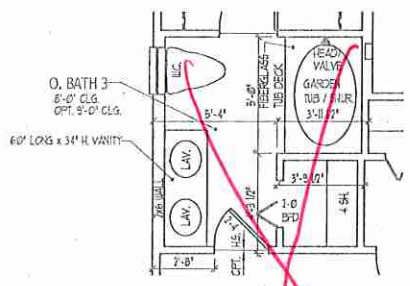
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SCALE: 1/4" = 1'-0"



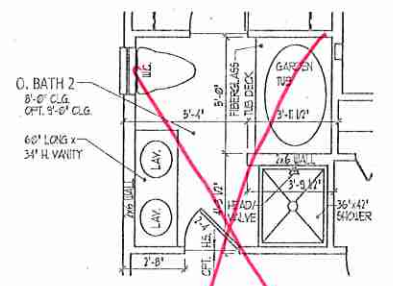
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SCALE: 1/4" = 1'-0"



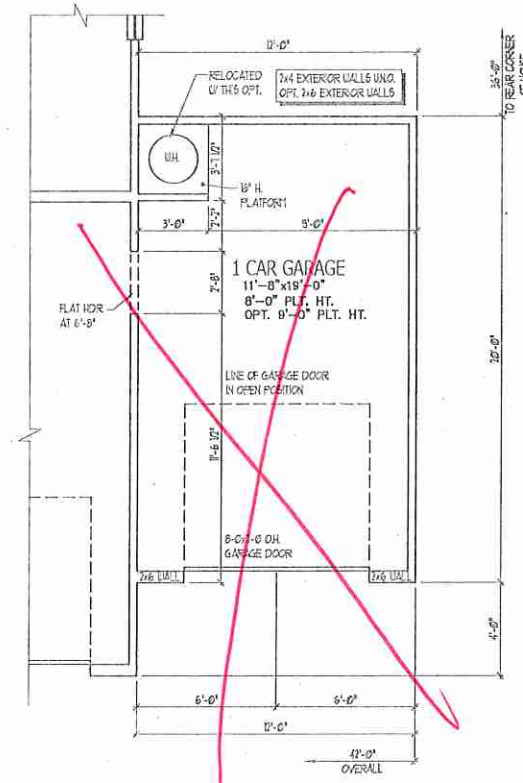
**OPT. BEDROOM 3**  
SCALE: 1/4" = 1'-0"



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



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



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

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PLAN OPTIONS





JOB NUMBER 27167.02  
 CAD FILE NAME VANTAGE-R  
 ISSUED 11-08-17  
 REVISED 02-10-20

  
**DAVIS BEWS DESIGN GROUP**  
 650 STATE STREET EAST  
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 813-469-1800 TEL.  
 813-469-1800 FAX  
 WWW.DAVISBEWS.COM  
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 EST. 1994  
 DRAWINGS ON 11"x17"  
 SHEET ARE ONE HALF  
 THE SCALE NOTED

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

1514

TITLE  
ELECTRICAL PLAN

SHEET  
E1

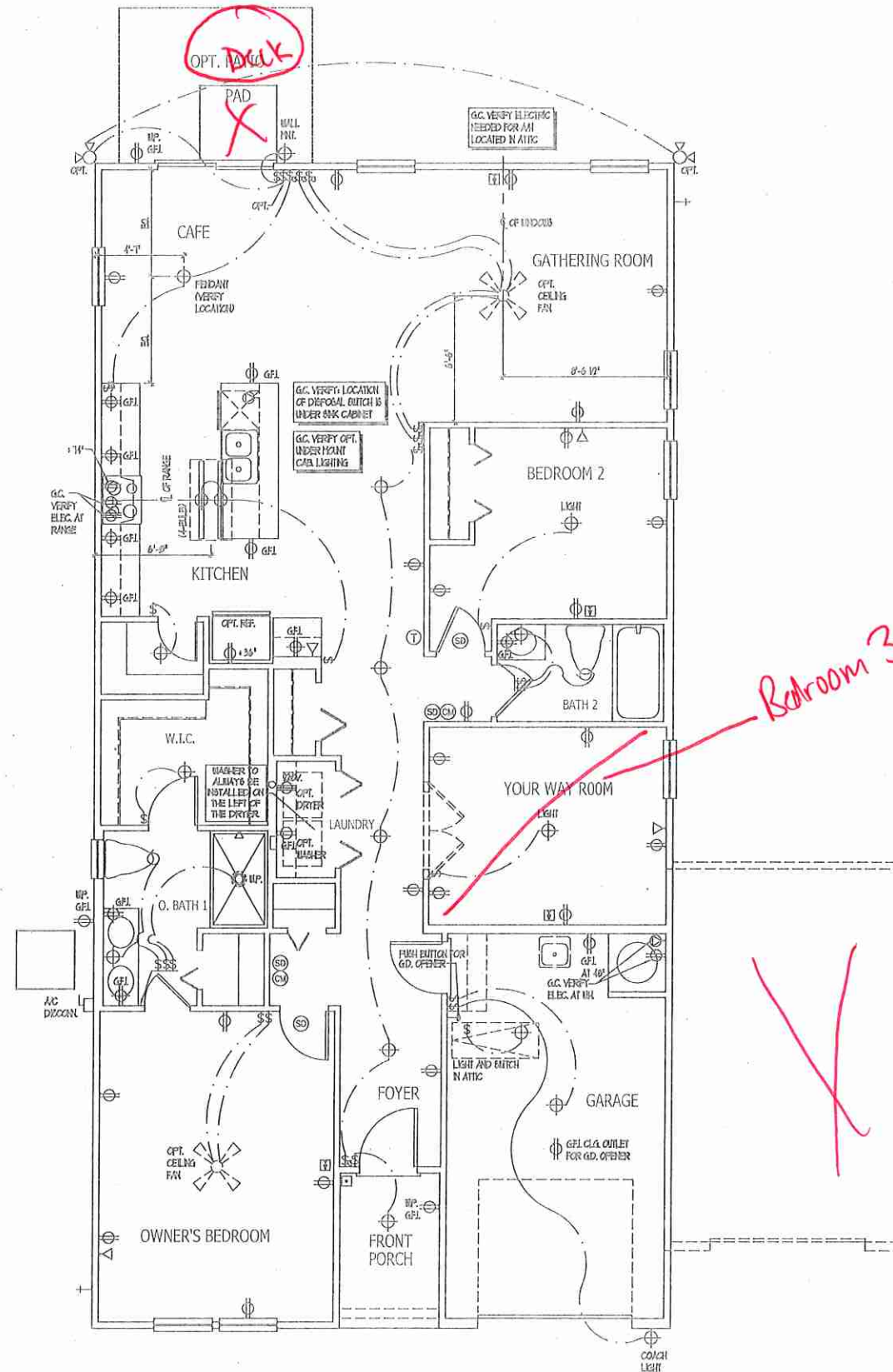
**ELECTRICAL KEY**

- ☉ DUPLEX COMMERCE OUTLET
- ☉ DUPLEX OUTLET ABOVE COUNTER
- ☉ WEATHER-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 FAULTLIGHT COMBINATION
- ☉ ELECTRIC DOOR OPERATOR (OPTIONAL)
- ☉ CHIMNEY (OPTIONAL)
- ☉ PUSHBUTTON SWITCH (OPTIONAL)
- ☉ CARBON MONOXIDE DETECTOR
- ☉ SMOKE DETECTOR
- ☉ SMOKE / CARBON MONOXIDE 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 (GFI) AS INDICATED ON PLAN OR AS NOTED 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... 18"
3. ALL SMOKE DETECTORS SHALL BE HARDCWIRED 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 20A RECEPTACLES IN SLEEPING ROOMS, FAMILY ROOMS, DINING ROOMS, LIVING ROOMS, PARLORS, LEVERIES, DEBS, BUNKROOMS, RECREATION ROOMS, CLOSETS, HELLBAYS, AND SIMILAR AREAS SHALL REQUIRE A COMBINATION TYPE AFCI DEVICE AND TAMPER-PROOF RECEPTACLES PER NEC 201.406.2 AND 406.5
5. ALL BA AND 20A 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 2017 EDITION, 2017 EDITION CORA, AND ALL APPLICABLE LOCAL ORDINANCES, CODES, AND REGULATIONS.
7. EVERY BUILDING HAVING A FORMAL-BURNING HEATER OR APPLIANCE, HEARTH, 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 MAINS WHEN SUCH MAINS IS SERVED FROM THE LOCAL POWER UTILITY. EACH ALARM 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 PLAN



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 DESIGN GROUP  
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 H&H HOMES

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TITLE  
 ELECTRIC AT PLAN OPTIONS

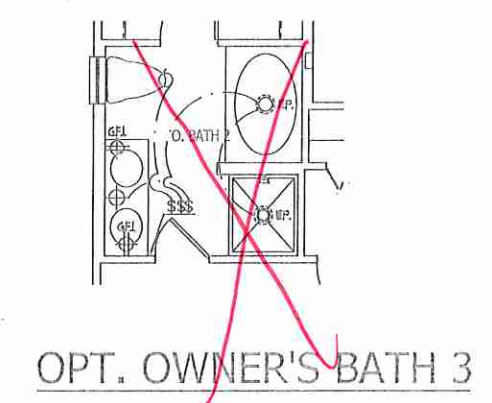
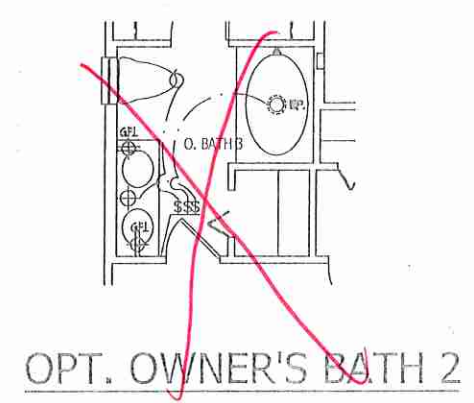
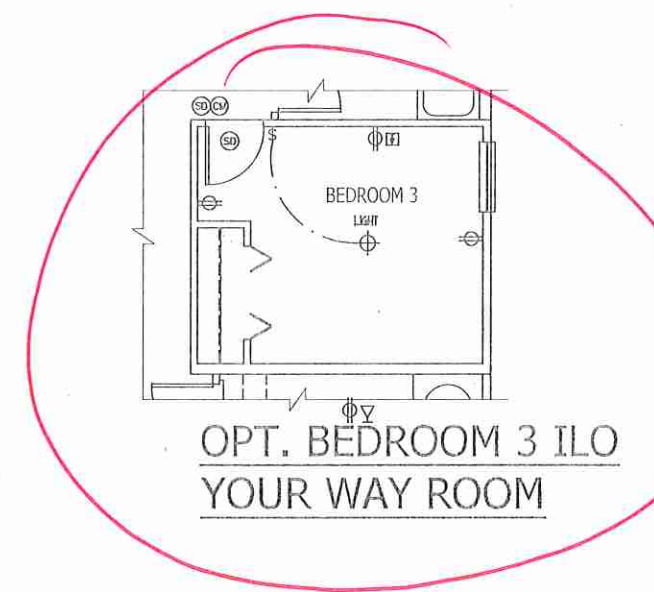
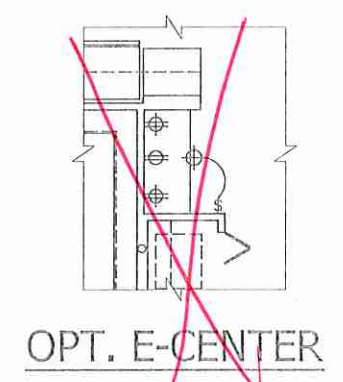
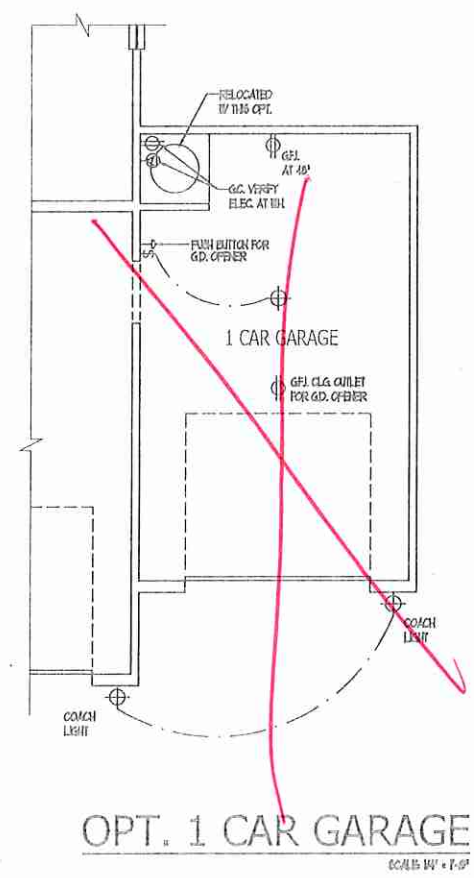
SHEET  
 E2

**ELECTRICAL KEY**

- ⊕ DIFLEX COMBINE OULET
- ⊕ DIFLEX OULET ABOVE COUNTER
- ⊕ WEATHERPROOF DIFLEX OULET
- ⊕ GROUND FAULT INTERRUPTER DIFLEX OULET
- ⊕ HALF-SWITCHED DIFLEX OULET
- ⊕ SPECIAL PURPOSE OULET
- ⊕ DIFLEX OULET IN FLOOR
- ⊕ 220 VOLT OULET
- ⊕ 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 GUARD
- ⊕ TRACK LIGHT
- ⊕ FLUORESCENT LIGHT FIXTURE
- ⊕ EXHAUST FAN
- ⊕ EXHAUST FAN LIGHT COORDINATION
- ⊕ ELECTRIC DOOR OPERATOR (OPTIONAL)
- ⊕ GARAGE (OPTIONAL)
- ⊕ PUSH BUTTON SWITCH (OPTIONAL)
- ⊕ CARBON MONOXIDE DETECTOR
- ⊕ SMOKE DETECTOR
- ⊕ SMOKE / CARBON MONOXIDE 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:**

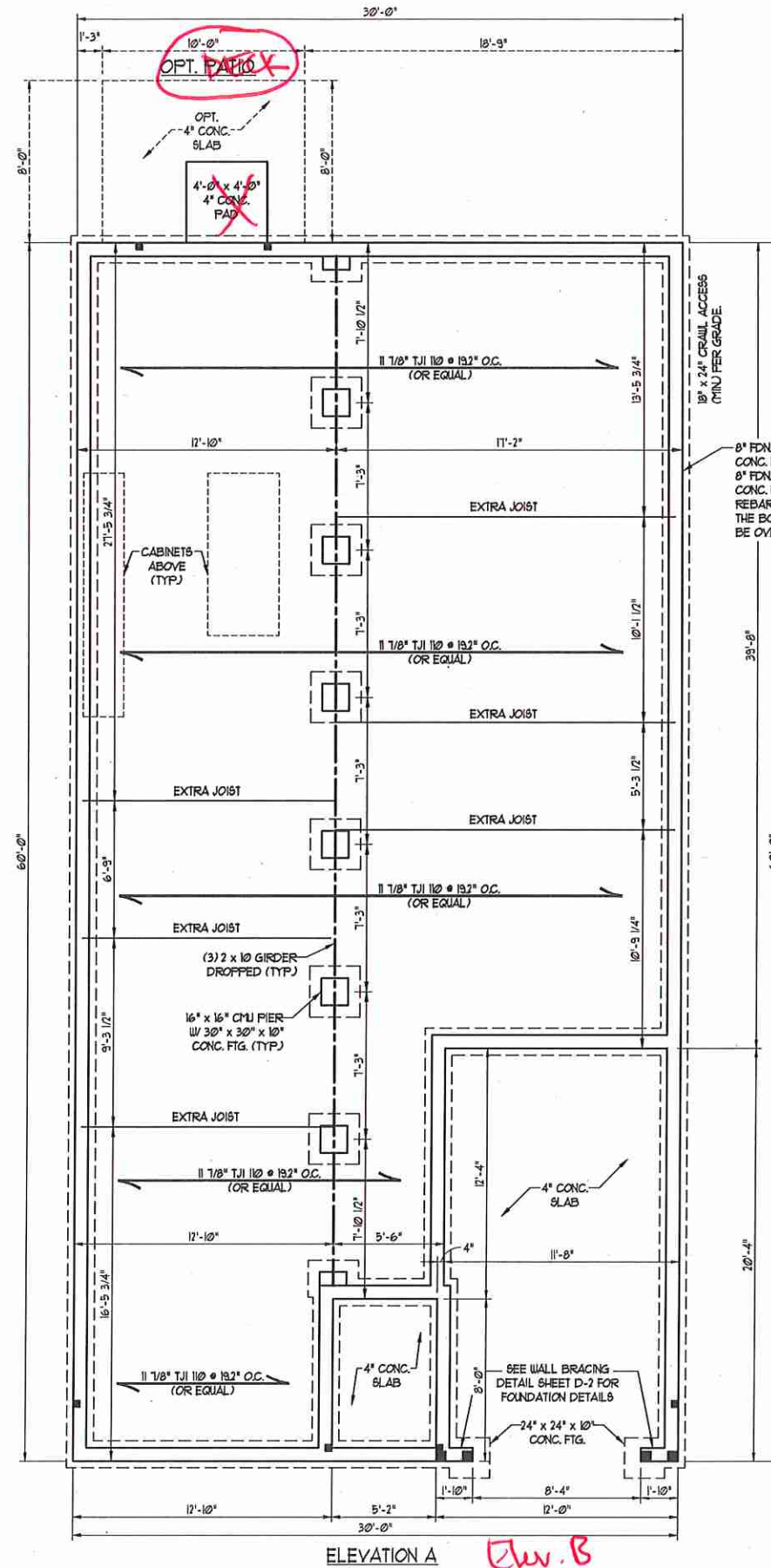
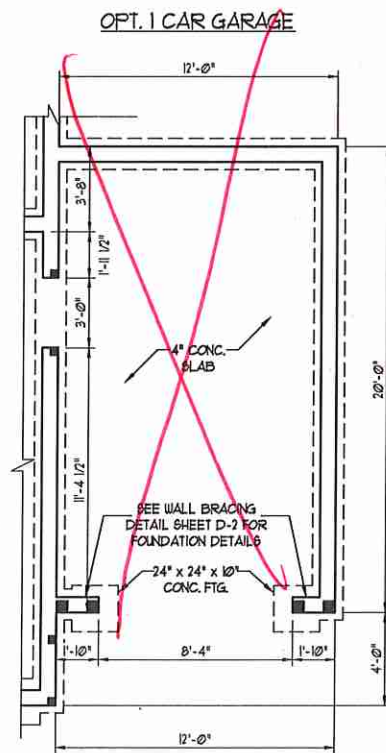
1. PROVIDE AND INSTALL GROUND FAULT INTERRUPTERS (GFI) AS INDICATED ON PLANS OR AS NOTED NO. 4 AND 5 BELOW INDICATES.
  2. UNLESS OTHERWISE INDICATED, INSTALL SWITCHES AND RECEPTACLES AT THE FOLLOWING HEIGHTS ABOVE FINISHED FLOOR:  
 SWITCHES ..... 4"  
 OULETS ..... 18"  
 TELEPHONE ..... 48" (UNLESS ASY CONNECTION)  
 TELEVISION ..... 48"
  3. ALL SMOKE DETECTORS SHALL BE WIRING INTO AN ELECTRICAL POWER SOURCE AND SHALL BE EQUIPPED WITH A MONITORED BATTERY BACKUP. PROVIDE AND INSTALL LOCALLY CERTIFIED SMOKE DETECTORS.
  4. ALL 120V AND 240V RECEPTACLES IN SLEEPING ROOMS, FAMILY ROOMS, DINING ROOMS, LIVING ROOMS, PARLORS, LIBRARIES, DEBS, BATHROOMS, RECREATION ROOMS, CLOSETS, HALLWAYS, AND SIMILAR AREAS SHALL REQUIRE A COORDINATION TYPE AFCI DEVICE AND TAMPER-PROOF RECEPTACLES PER NEC 201.406.8 AND 406.9.
  5. ALL 120V AND 240V 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 2017, NEC - 90N EDITION (2017), AND ALL APPLICABLE LOCAL STANDARDS, CODES, AND ORDINANCES.
  7. EVERY BUILDING HAVING A FOSSIL-FUEL-BURNING HEATER OR APPLIANCE, REFRIGERATOR, OR AN ATTACHED GARAGE SHALL HAVE AN OPERATIONAL CARBON MONOXIDE DETECTOR INSTALLED WITHIN 10 FEET OF EACH ROOM USED FOR SLEEPING PURPOSES.
- A ALARMS SHALL RECEIVE THEIR PRIMARY POWER FROM THE BUILDING WIRING WHEN SUCH WIRING IS KEPT FROM THE LOCAL POWER UTILITY. SUCH ALARMS SHALL HAVE BATTERY BACKUP. COORDINATION SPEAKER/TELEPHONE ALARMS SHALL BE LISTED OR LABELED BY A NATIONALLY RECOGNIZED TESTING LABORATORY.



ELECTRIC AT  
 PLAN OPTIONS

ISSUANCE OF PLANS FROM THIS DRAWING OFFICE SHALL NOT RELIEVE THE BURDEN OF RESPONSIBILITY TO REVIEW AND VERIFY ALL NOTES, PERMISSIONS, AND REFERENCES TO APPLICABLE BUILDING CODES PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION.  
 ANY DISCREPANCY OF ERROR IN NOTES, DIMENSIONS, OR REFERENCES TO APPLICABLE BUILDING CODES SHALL BE BROUGHT TO THE ATTENTION OF THE DRAWING 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 FEE.  
 IF ANY MODIFICATIONS ARE MADE TO THESE PLANS BY ANY OTHER PARTY OTHER THAN THE DRAWING OFFICE, THE DRAWER SHALL NOT BE HELD RESPONSIBLE.





SCALE NOTE:  
LARGE FORMAT PRINTS ARE TO SCALE AS NOTED.  
11\"/>

**FOUNDATION VENTILATION CALCULATION**  
1400 SQ. FT. OF CRAWL SPACE DIVIDED BY 60 EQUALS 23 SQ. FT. OF NET FREE AREA REQUIRED. INSTALL 6 MIL POLY TO COVER ENTIRE CRAWL SPACE. LOCATE VENTS WITHIN 3'-0\"/>

- STRUCTURAL NOTES:**
1. ALL FRAMING LUMBER TO BE #2 SFF (UNO), ALL TREATED LUMBER TO BE #2 SYP (UNO).
  2. INSTALL AN EXTRA OR DOUBLE JOIST UNDER WALLS PARALLEL TO FLOOR JOISTS WHERE NOTED ON THE PLANS.
  3. SQUARES DENOTE POINT LOADS WHICH REQUIRE SOLID BLOCKING TO GIRDER OR FOUNDATION.
  4. SHADED PIERS TO BE FILLED SOLID.
  5. INSTALL LADDER WIRE # 16\"/>

- 120 MPH ULTIMATE DESIGN WIND SPEED NOTES FOR LESS THAN 30' MEAN ROOF HEIGHT:**
1. ENGINEER'S SEAL APPLIES ONLY TO STRUCTURAL COMPONENTS. ENGINEER'S SEAL DOES NOT CERTIFY DIMENSIONAL ACCURACY OR ARCHITECTURAL LAYOUT INCLUDING ROOF SYSTEM.
  2. STRUCTURAL DESIGN PER NORTH CAROLINA RESIDENTIAL CODE, 2018 EDITION.
  3. INSTALL 1/2\"/>

- 150 MPH ULTIMATE DESIGN WIND SPEED NOTES FOR LESS THAN 30' MEAN ROOF HEIGHT:**
1. ENGINEER'S SEAL APPLIES ONLY TO STRUCTURAL COMPONENTS. ENGINEER'S SEAL DOES NOT CERTIFY DIMENSIONAL ACCURACY OR ARCHITECTURAL LAYOUT INCLUDING ROOF SYSTEM.
  2. STRUCTURAL DESIGN PER NORTH CAROLINA RESIDENTIAL CODE, 2018 EDITION WITH SPECIAL CONSIDERATION TO CHAPTER 45 (HIGH WIND ZONES) FOR 150 MPH WINDS.
  3. BUILDER IS TO PROVIDE FRAMING CONNECTIONS AS REQUIRED BY CHAPTER 45 (HIGH WIND ZONES) FOR 150 MPH WINDS) OF THE NORTH CAROLINA RESIDENTIAL CODE, 2018 EDITION.
  4. FOUNDATION ANCHORAGE TO COMPLY WITH SECTION 4504 OF THE NORTH CAROLINA RESIDENTIAL CODE, 2018 EDITION.
  5. MEAN ROOF HEIGHT IS LESS THAN 30 FEET.
  6. WALL CLADDING DESIGNED FOR 4.43 PSF AND -31 PSF (4.43 INDICATE POSITIVE / NEGATIVE PRESSURE (TYP)).
  7. ROOF CLADDING DESIGNED FOR 0.22 PSF AND -28 PSF FOR ROOF PITCHES 1/2 TO 1/2 AND 44 PSF AND -51 PSF FOR ROOF PITCHED 125/125 TO 1/2.
  8. 1/6\"/>

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N.C. LICENSE NO.: C-1733

VANTAGE  
H & H HOMES

DATE: APR 8, 2020  
SCALE: 1/4\"/>

SHEET 1 OF 10  
S-1.1a  
CRAWL FOUNDATION PLAN

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

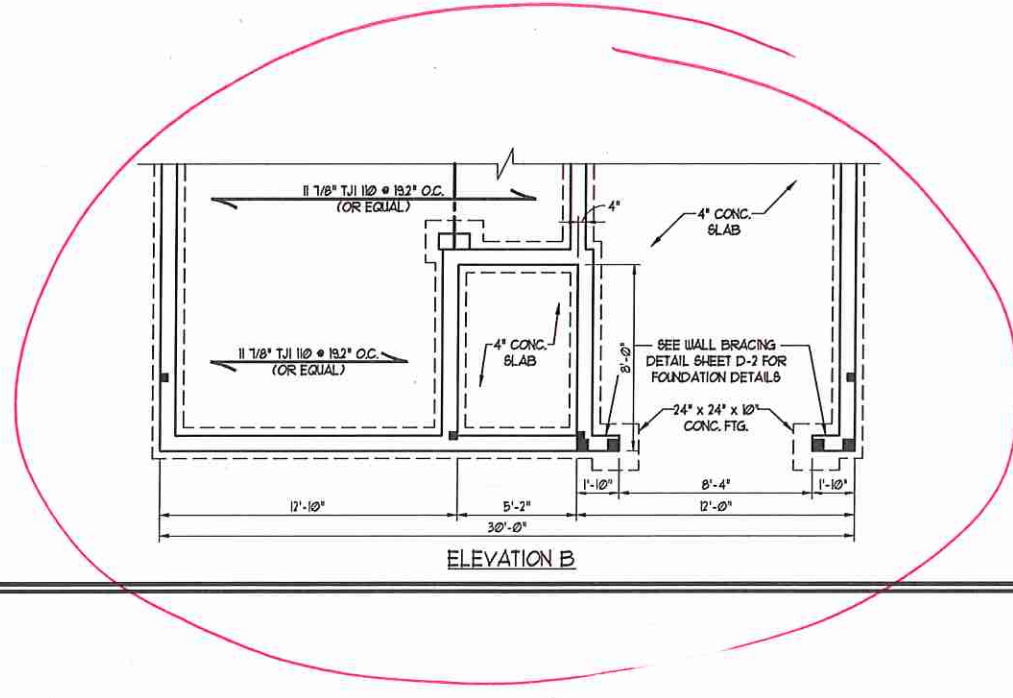
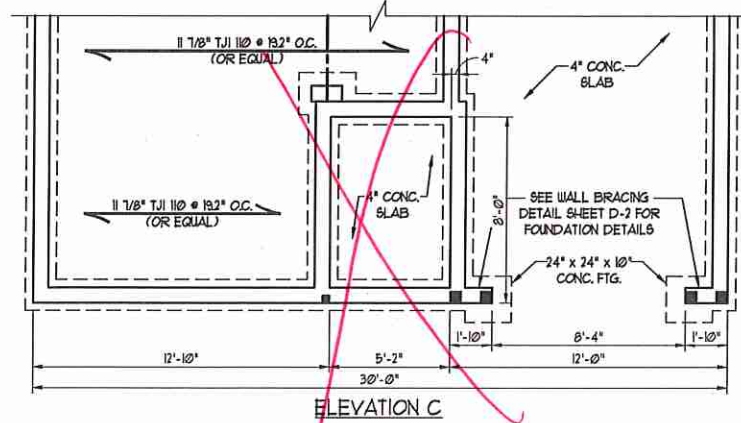
**J.S. THOMPSON  
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 PHONE: (919) 789-9919 FAX: (919) 789-9921  
 N.C. LICENSE NO.: C-1713

VANTAGE  
 H & H HOMES

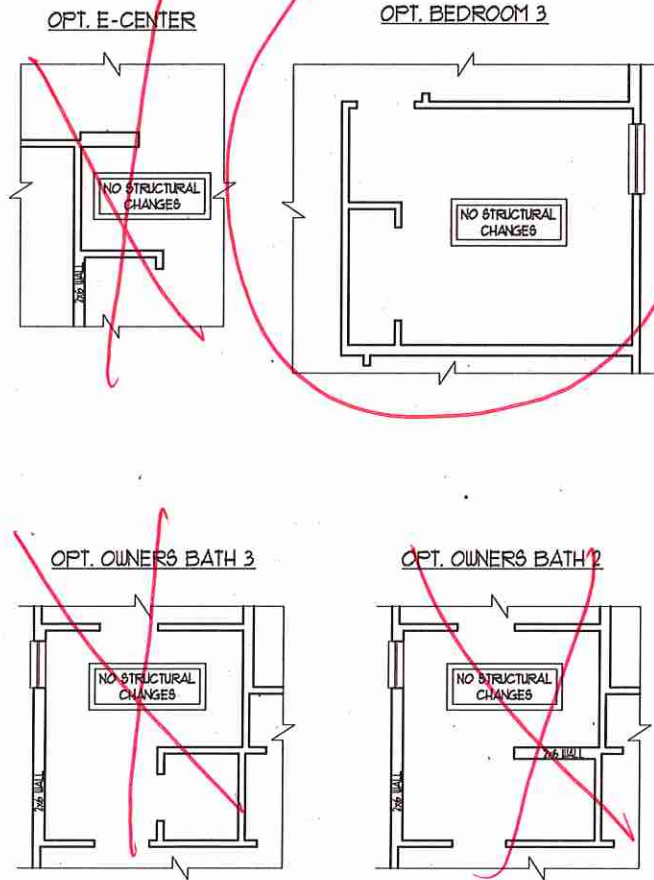
*Matthew G. Strother*  
 NORTH CAROLINA  
 PROFESSIONAL  
 SEAL  
 33736  
 ENGINEER  
 MATTHEW G. STROTHER  
 4/8/2020

DATE: APRIL 8, 2020  
 SCALE: 1/4" = 1'-0"  
 DRAWN BY: DAVIS-BECK FISH CO.  
 ENGINEERED BY: WTB

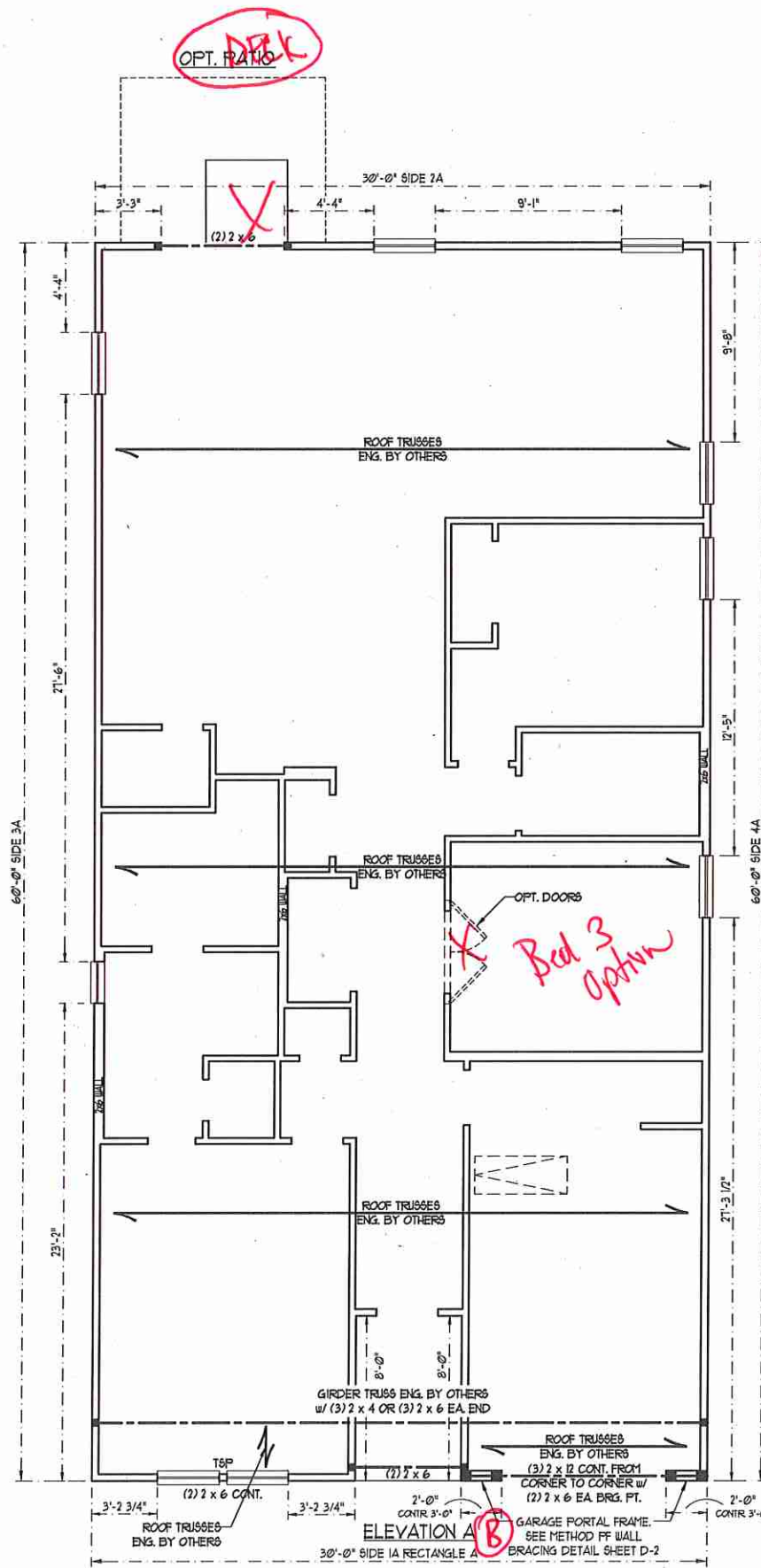
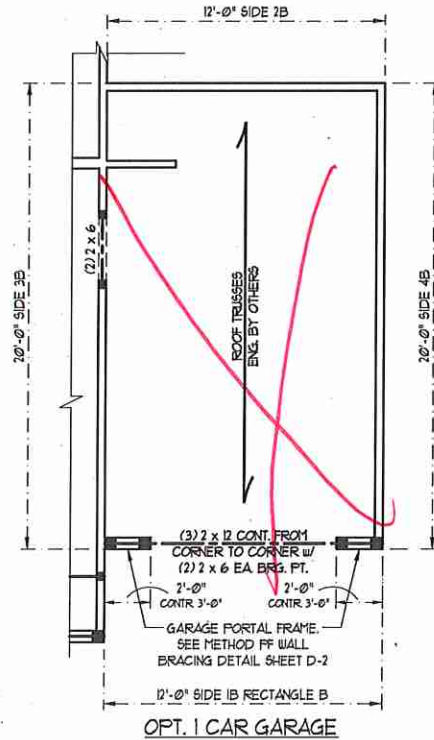
SHEET 2 OF 10  
 S-1.1b  
 CRAWL  
 FOUNDATION PLAN







**NOTE:** ALL EXTERIOR WALLS AND ATTIC WALLS ARE TO BE 2 x 4 SFF #2 @ 24" O.C. 2 x 6 SFF #2 @ 24" O.C. (UNO) 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).



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

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
6'	3	2
8'	5	3
16'	6	4

- STRUCTURAL NOTES:**
- ALL FRAMING LUMBER TO BE SFF #2 (UNO). ALL TREATED LUMBER TO BE SYP #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 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 1/8" 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 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 GILL 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 100 LB CAPACITY UPLIFT CONNECTORS AT TOP (UNO).
  - FOR FIBERGLASS, ALUMINUM, OR COLUMN ENG. BY OTHERS, SECURE TO SLAB w/ (2) METAL ANGLES USING 2" CONC. SCREWS. FASTEN ANGLES TO COLUMNS w/ 1/4" THROUGH BOLTS w/ NUTS AND WASHERS. LOCATE ANGLES ON OPPOSITE SIDES OF COLUMN. THROUGH BOLTS MUST BE INSTALLED PRIOR TO SETTING COLUMN.
  - REFER TO NOTES AND DETAIL SHEETS FOR ADDITIONAL STRUCTURAL INFORMATION.

- BRACED WALL DESIGN NOTES:**
- BRACED WALL DESIGN PER SECTION R602.10 OF THE NRC 2018 EDITION.
  - CS-USP REFERS TO 'CONTINUOUS SHEATHING - WOOD STRUCTURAL PANELS' CONTRACTOR IS TO INSTALL 1/8" 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 12" 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 NRC 2018 EDITION.
  - SEE NOTES AND DETAIL SHEETS FOR ADDITIONAL BRACED WALL INFORMATION.

**BRACED WALL DESIGN**

RECTANGLE A		RECTANGLE B	
SIDE 1A	SIDE 1B	SIDE 2A	SIDE 2B
METHOD: CS-USP/FF	METHOD: CS-USP/FF	METHOD: CS-USP	METHOD: CS-USP
TOTAL REQUIRED LENGTH: 10.45'	TOTAL REQUIRED LENGTH: 3.8'	TOTAL REQUIRED LENGTH: 10.45'	TOTAL REQUIRED LENGTH: 3.8'
TOTAL PROVIDED LENGTH: 12.46'	TOTAL PROVIDED LENGTH: 6.0'	TOTAL REQUIRED LENGTH: 16.7'	TOTAL PROVIDED LENGTH: 12.0'
SIDE 3A	SIDE 3B	SIDE 3B & 4A COMBINED	SIDE 4A
METHOD: CS-USP	METHOD: CS-USP	METHOD: CS-USP	METHOD: CS-USP
TOTAL REQUIRED LENGTH: 5.1'	TOTAL REQUIRED LENGTH: 8.36'	TOTAL REQUIRED LENGTH: 8.36'	TOTAL REQUIRED LENGTH: 5.1'
TOTAL PROVIDED LENGTH: 6.30'	TOTAL PROVIDED LENGTH: 30.5'	TOTAL PROVIDED LENGTH: 30.5'	TOTAL PROVIDED LENGTH: 5.1'
SIDE 4A	SIDE 4B	SIDE 4B	SIDE 4B
METHOD: CS-USP	METHOD: CS-USP	METHOD: CS-USP	METHOD: CS-USP
TOTAL REQUIRED LENGTH: 5.1'	TOTAL REQUIRED LENGTH: 2.66'	TOTAL REQUIRED LENGTH: 2.66'	TOTAL REQUIRED LENGTH: 2.0'
TOTAL PROVIDED LENGTH: 5.13'	TOTAL PROVIDED LENGTH: 2.0'	TOTAL PROVIDED LENGTH: 2.0'	TOTAL PROVIDED LENGTH: 2.0'

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N.C. LICENSE NO.: C-1713

VANTAGE  
H & H HOMES

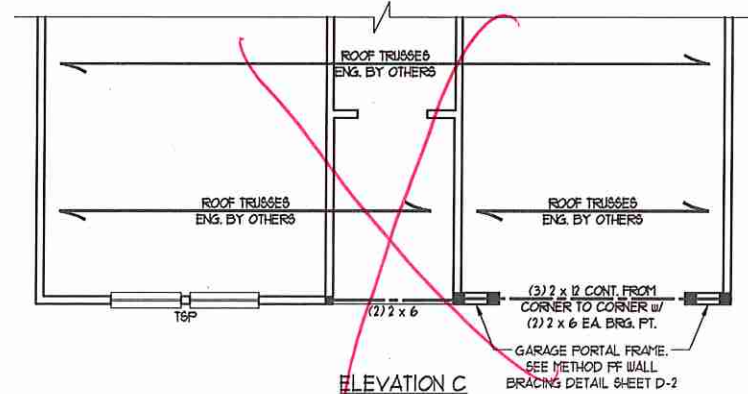
DATE: APRIL 8, 2020  
SCALE: 1/4" = 1'-0"  
DRAWN BY: DAVIS DEAN FISHON, C.A.  
ENGINEERED BY: WTB

SHEET 7 OF 10  
S-2a  
ATTIC FLOOR FRAMING PLAN

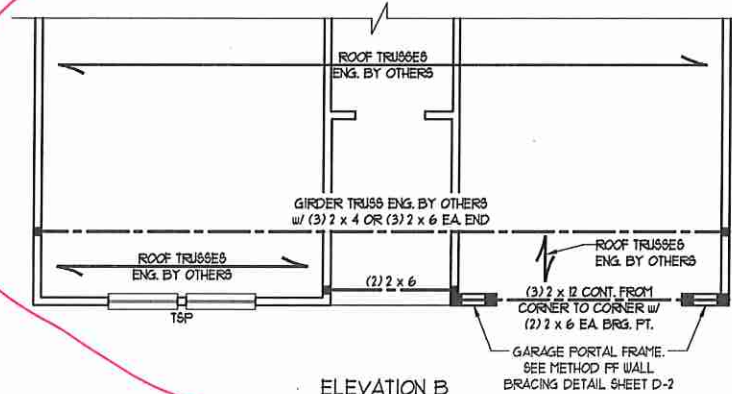
SCALE NOTE:  
 LARGE FORMAT PRINTS ARE TO SCALE AS NOTED.  
 11" x 17" PRINTS ARE ONE HALF THE NOTED SCALE

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VANTAGE  
 H & H HOMES



ELEVATION C



ELEVATION B

*Matthew G. Strother*  
 NORTH CAROLINA  
 PROFESSIONAL  
 SEAL  
 33736  
 ENGINEER  
 MATTHEW G. STROTHER  
 4/8/2020

DATE: APRIL 8, 2020  
 SCALE: 1/4" = 1'-0"  
 DRAWN BY: DAVIS BECK DESIGN CO.  
 ENGINEERED BY: WTB

SHEET 8 OF 10  
 S-2b  
 ATTIC FLOOR  
 FRAMING PLAN



SCALE NOTE:  
 LARGE FORMAT PRINTS ARE TO SCALE AS NOTED.  
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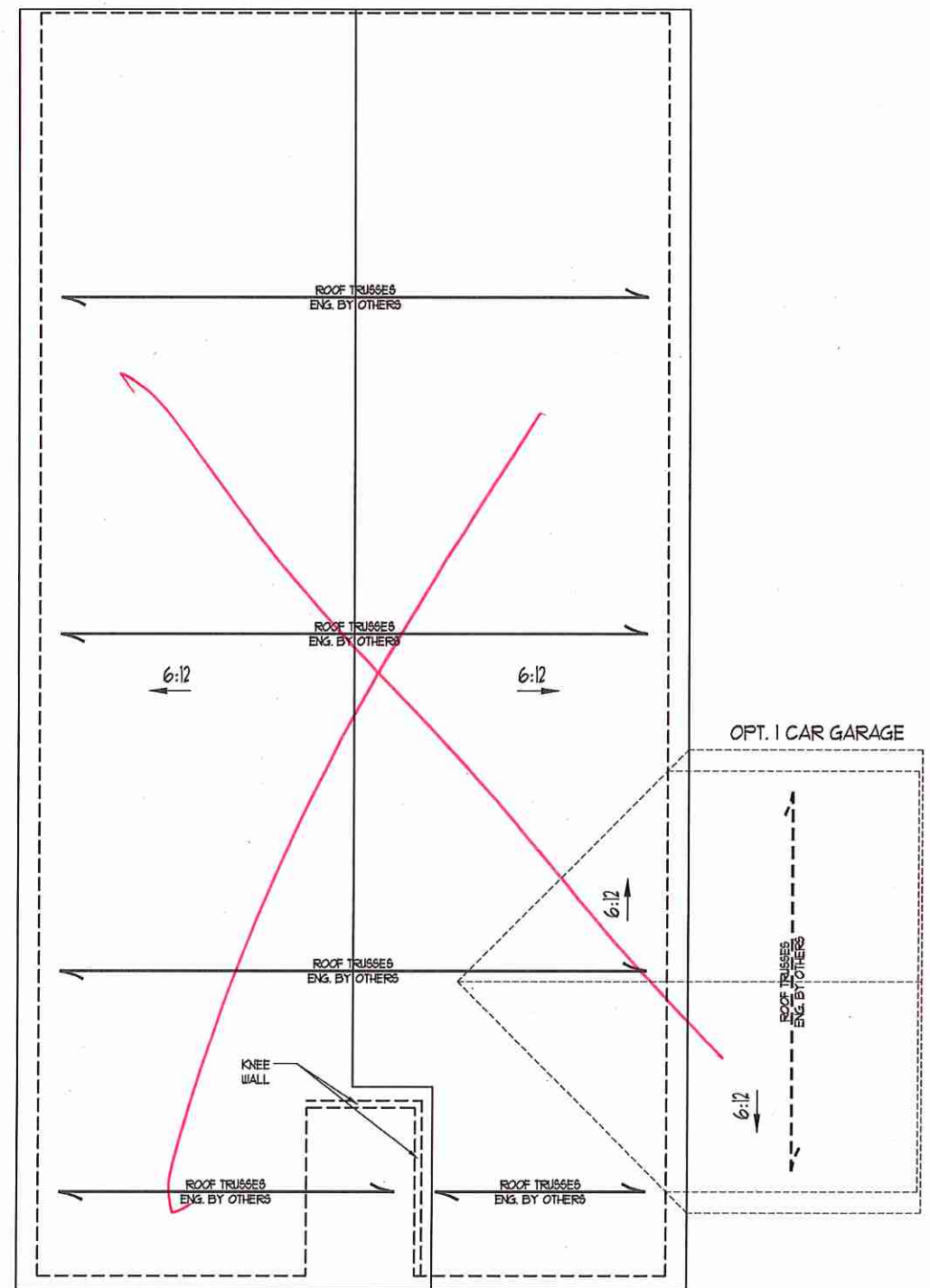
- STRUCTURAL NOTES:**
1. ALL FRAMING LUMBER TO BE #2 SFF (INO).
  2. CIRCLES DENOTE (3) 2 x 4 POSTS FOR ROOF SUPPORT.
  3. FRAME DORMER WALLS ON TOP OF DOUBLE OR TRIPLE RAFTERS.
  4. HIP SPLICES ARE TO BE SPACED A MIN. OF 8'-0". FASTEN MEMBERS WITH THREE ROWS OF 12d NAILS @ 16" O.C. (TYP)
  5. STICK 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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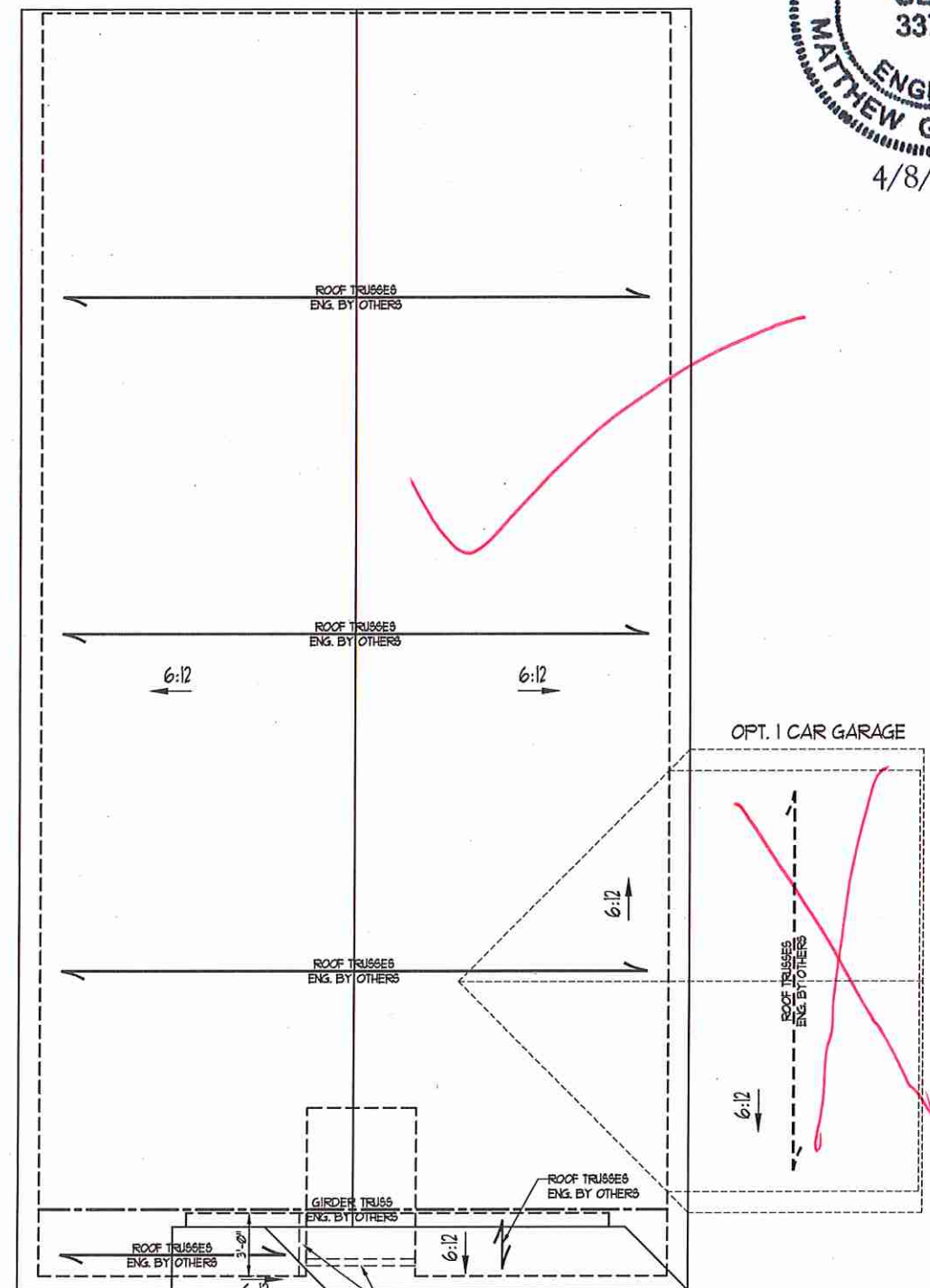
VANTAGE  
 H & H HOMES

DATE: APR 8, 2020  
 SCALE: 1/4" = 1'-0"  
 DRAWN BY: DAVIS BURNS EYSON CO.  
 ENGINEERED BY: WTB

SHEET 10 OF 10  
 S-3b  
 ROOF FRAMING PLAN



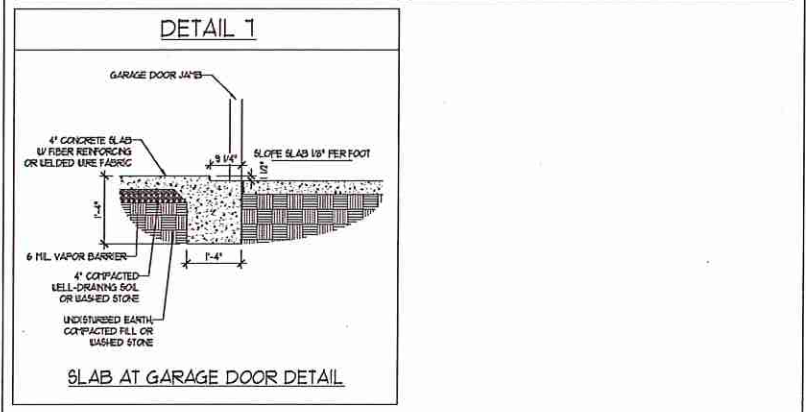
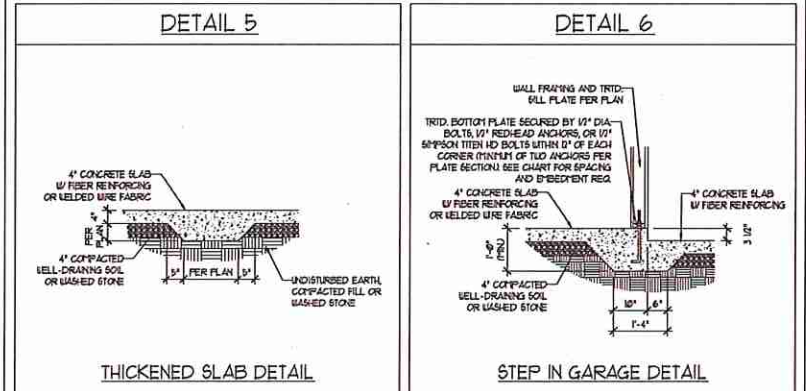
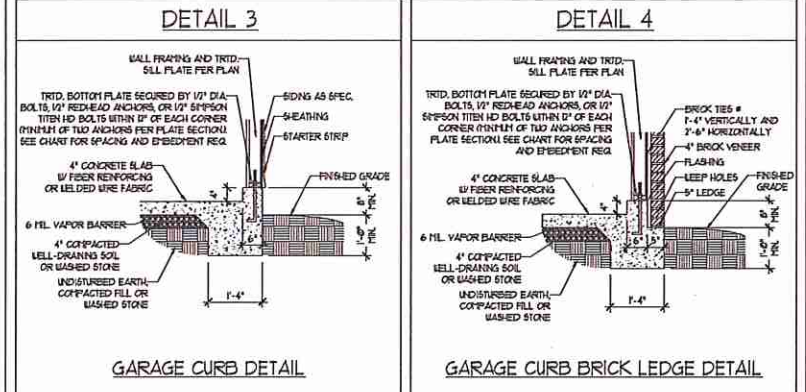
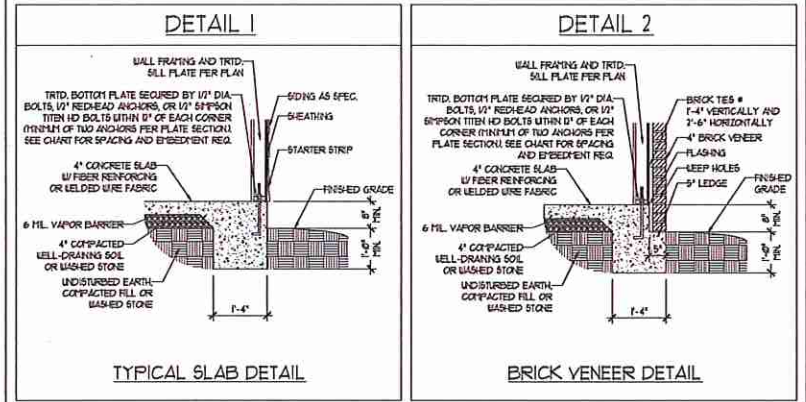
ELEVATION C



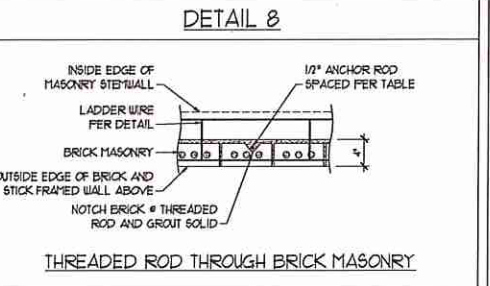
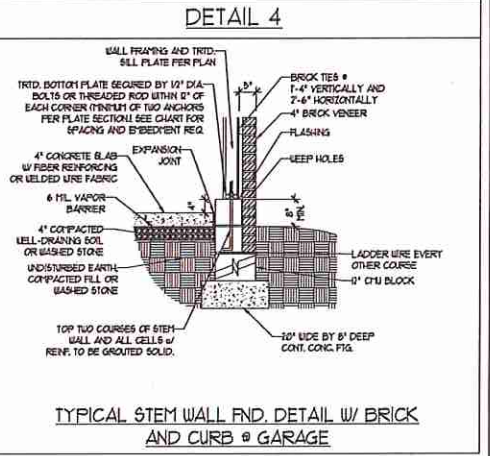
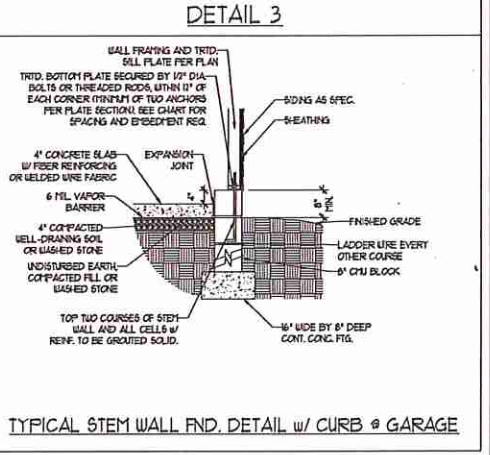
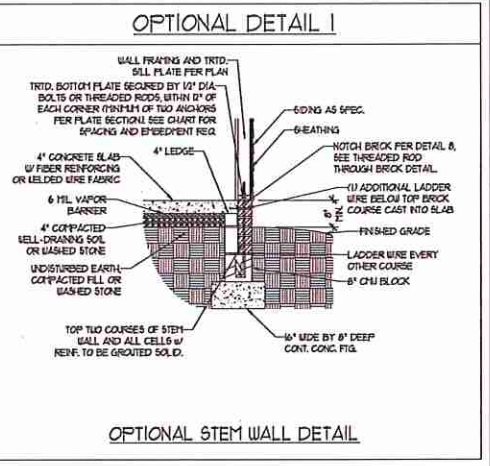
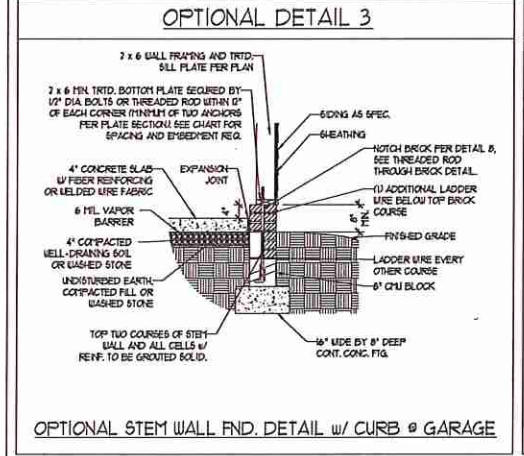
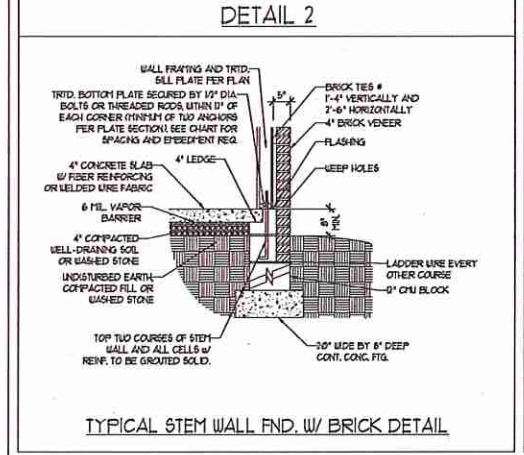
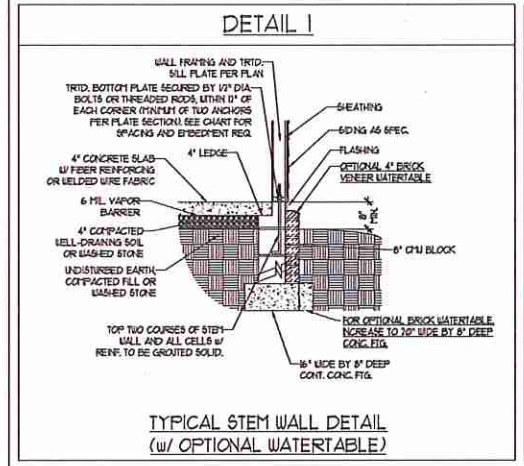
ELEVATION B



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	UNGRADED	GROUT SOLID	UNGRADED	UNGRADED
3	UNGRADED	GROUT SOLID	UNGRADED	UNGRADED
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.
7 AND GREATER	ENGINEERED DESIGN BASED ON SITE CONDITIONS			

- STRUCTURAL NOTES:
1. WALL HEIGHT MEASURED FROM TOP OF FOOTING TO TOP OF THE WALL.
  2. TIE MULTIPLE W/THES TOGETHER WITH LADDER WIRE AT 16" O.C. VERTICALLY.
  3. CHART APPLICABLE FOR HOUSE FOUNDATION ONLY, CONSULT ENGINEER FOR DESIGN OF GARAGE FOUNDATION NOT COMMON TO HOUSE.
  4. BACKFILL OF CLEAN #1 / #1 WASHED STONE IS ALLOWABLE.
  5. BACKFILL OF WELL DRAINED OR SAND - GRAVEL MIXTURE SOILS (AS PER DETAIL) BELOW GRADE CLASSIFIED AS GROUP 1 ACCORDING TO UNIFIED SOILS CLASSIFICATION SYSTEM IN ACCORDANCE WITH TABLE R602.1 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 SPICE 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 LEFT 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'	5" INTO MASONRY 1" INTO CONCRETE



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 N.C. LICENSE NO. C-11713

120 MPH - 130 MPH ULTIMATE DESIGN WIND SPEED  
 FOUNDATION DETAILS

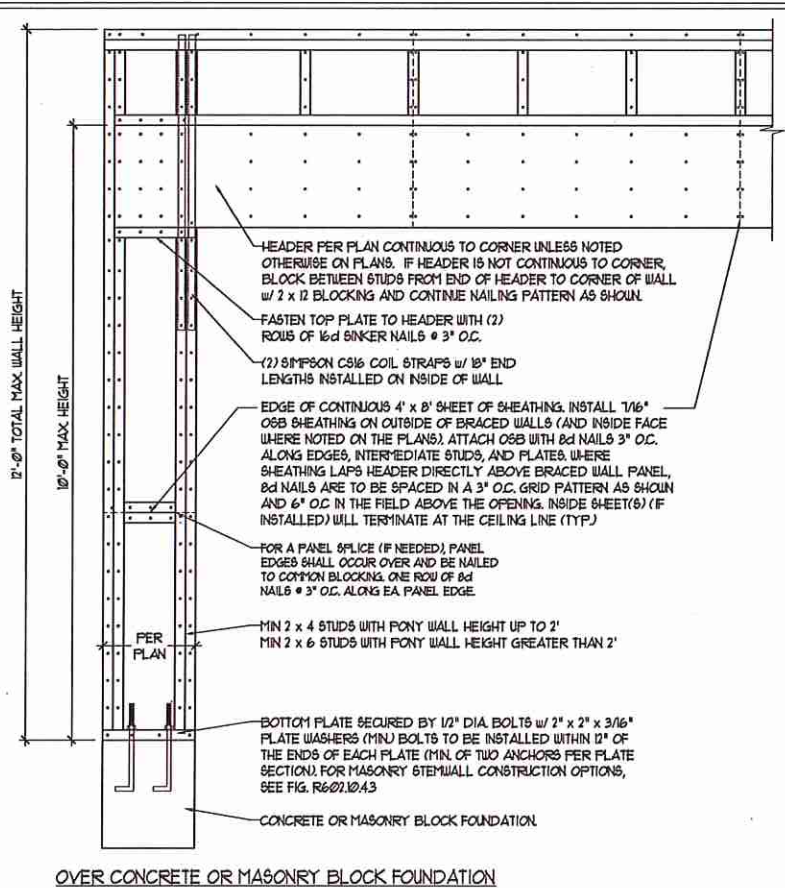
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 ENGINEERED BY: JES

D-1  
 FOUNDATION DETAILS

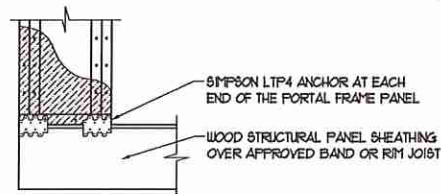


**GENERAL WALL BRACING NOTES:**

1. WALL BRACING DESIGNED IN ACCORDANCE WITH CHAPTER 6 OF THE 2018 NC RESIDENTIAL BUILDING CODE (NCR). TABLES AND FIGURES REFERENCED ARE FROM THE 2018 NCR.
2. SEE THIS SHEET FOR GENERAL DETAILS. REFER TO THE 2018 NCR 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 SHEATHINGS AND FASTENERS HAVE BEEN DESIGNED TO RESIST COMBINED UPLIFT AND SHEAR FORCES IN ACCORDANCE WITH ACCEPTED ENGINEERING 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 R102.3.5, 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 0.131" DIAMETER) NAILS SPACED 6" O.C. ALONG PANEL EDGES AND 12" O.C. IN THE FIELD (UNO).
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 6" SPACED 1" O.C. ALONG PANEL EDGES INCLUDING TOP AND BOTTOM PLATES AND INTERMEDIATE SUPPORTS (UNO). VERIFY ALL FASTENER OPTIONS FOR 1/2" AND 5/8" GYPSUM PRIOR TO CONSTRUCTION. FOR INTERIOR FASTENER OPTIONS SEE TABLE R102.3.5. 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.

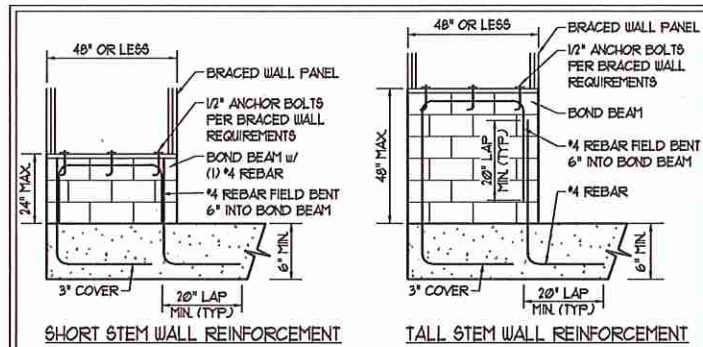


OVER CONCRETE OR MASONRY BLOCK FOUNDATION



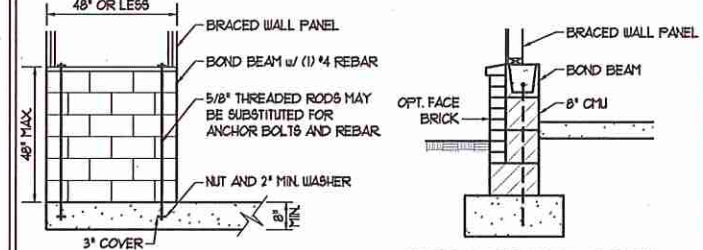
OVER RAISED WOOD FLOOR - FRAMING ANCHOR OPTION  
 \* APPLICABLE w/ GREATER THAN 12' KNEE WALL HEIGHTS IN CRAWL SPACE AND ABOVE FRAMED BASEMENT WALLS \*

METHOD PF-PORTAL FRAME DETAIL ①



SHORT STEM WALL REINFORCEMENT

TALL STEM WALL REINFORCEMENT



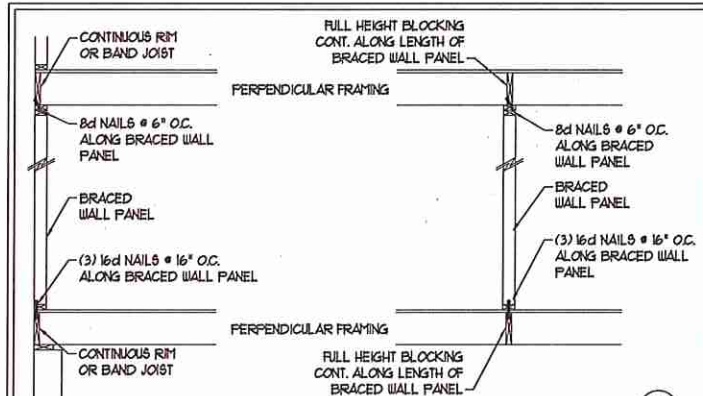
OPTIONAL STEM WALL REINFORCEMENT

TYPICAL STEM WALL SECTION

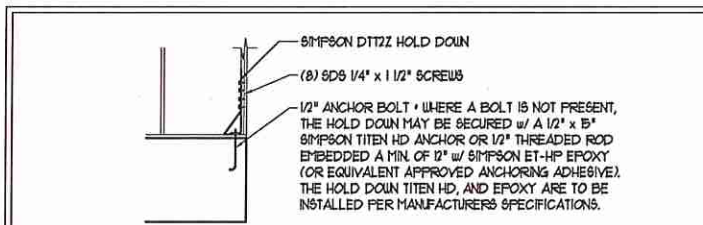
RODS MAY BE INSTALLED USING AN ADHESIVE ANCHORING SYSTEM WITH A MINIMUM TENSILE CAPACITY OF 3750 LBS AND INSTALLED IN ACCORDANCE WITH MANUFACTURER'S SPECS.

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

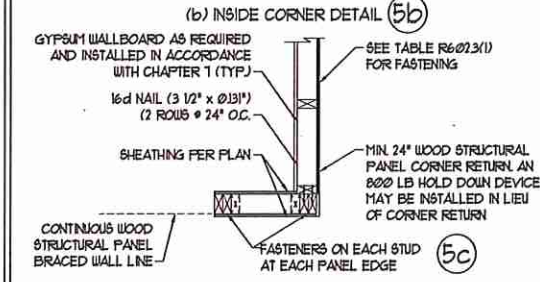
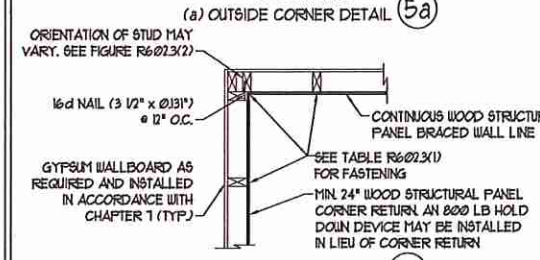
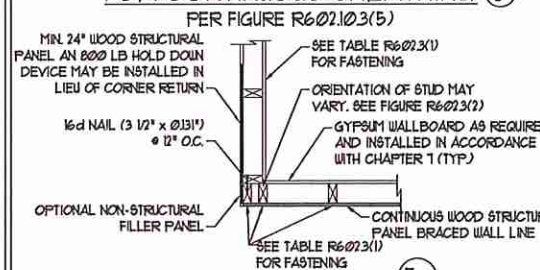


BRACED WALL PANEL CONNECTION WHEN PERPENDICULAR TO FLOOR/CEILING FRAMING  
 PER FIGURE R602.10.4.4(1)



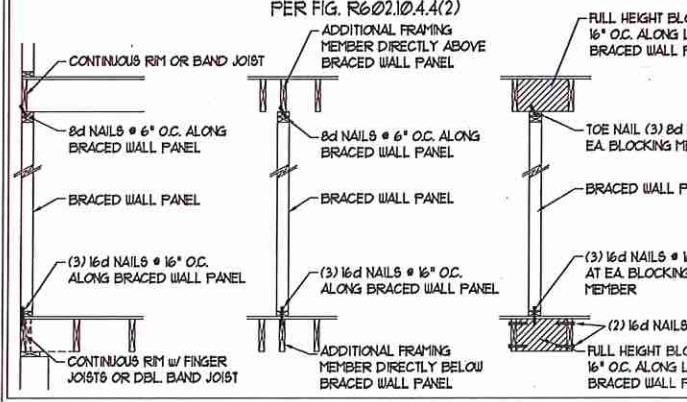
**HOLD DOWN DETAIL FOR MASONRY FOUNDATION OR MONOLITHIC SLAB ④**  
 \* APPLICABLE ONLY WHERE SPECIFIED ON PLAN \*

**TYPICAL EXTERIOR CORNER FRAMING FOR CONTINUOUS SHEATHING ⑤**



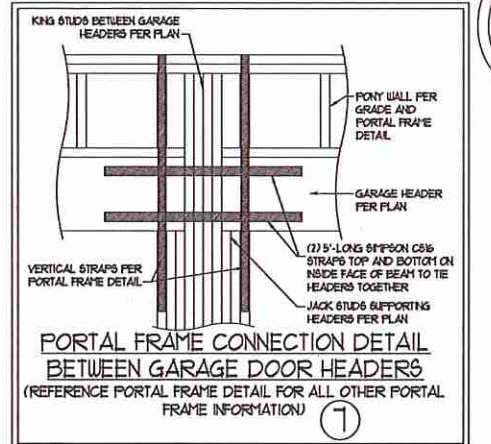
(c) GARAGE DOOR CORNER DETAIL (SEE PLAN FOR ADDITIONAL STRUCTURAL INFORMATION OR ALTERNATE CONFIGURATIONS)

**BRACED WALL PANEL CONNECTION WHEN PARALLEL TO FLOOR/CEILING FRAMING ⑥**

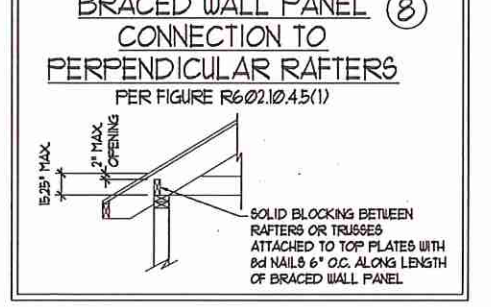


BRACED WALL PANEL CONNECTION WHEN PARALLEL TO FLOOR/CEILING FRAMING

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

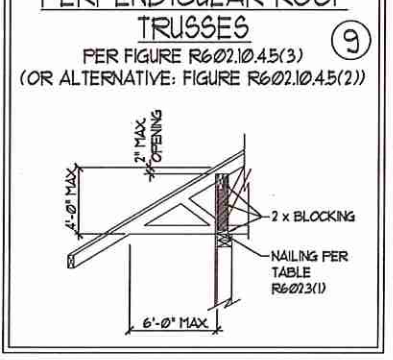


PORTAL FRAME CONNECTION DETAIL BETWEEN GARAGE DOOR HEADERS



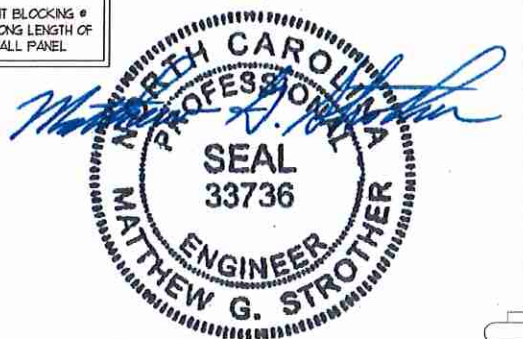
BRACED WALL PANEL CONNECTION TO PERPENDICULAR RAFTERS

**BRACED WALL PANEL CONNECTION TO PERPENDICULAR ROOF TRUSSES ⑨**



BRACED WALL PANEL CONNECTION TO PERPENDICULAR ROOF TRUSSES

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4/8/2020

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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, 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.
- ALL CONSTRUCTION SHALL CONFORM TO THE LATEST REQUIREMENTS OF THE NORTH CAROLINA RESIDENTIAL CODE (NCRC), 2018 EDITION PLUS ALL LOCAL CODES AND REGULATIONS. THE STRUCTURAL ENGINEER IS NOT RESPONSIBLE FOR, AND WILL NOT HAVE CONTROL OF, CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES, OR SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE CONSTRUCTION WORK. NOR WILL THE ENGINEER BE RESPONSIBLE FOR THE CONTRACTOR'S FAILURE TO CARRY OUT THE CONSTRUCTION WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
- STRUCTURAL DESIGN BASED ON THE PROVISIONS OF THE NCRC, 2018 EDITION (R301.4 - R301.7)

DESIGN CRITERIA:	LIVE LOAD (PSF)	DEAD LOAD (PSF)	DEFLECTION (IN)
ATTIC WITH LIMITED STORAGE	20	10	L/240 (L/360 w/ BRITTLE FINISHES)
ATTIC WITHOUT STORAGE	10	10	L/360
DECKS	40	10	L/360
EXTERIOR BALCONIES	40	10	L/360
FIRE ESCAPES	40	10	L/360
HANDRAILS/GUARDRAILS	200 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/480
  - FLOOR TRUSS SYSTEMS DESIGNED WITH 15 PSF DEAD LOAD
- FOR 15 AND 10 MPH WIND ZONES, FOUNDATION ANCHORAGE IS TO COMPLY WITH SECTION R403.6 OF THE NCRC, 2018 EDITION. FOR 10 MPH, 140 MPH, AND 150 MPH WIND ZONES, FOUNDATION ANCHORAGE IS TO COMPLY WITH SECTION 45.04 OF THE NCRC, 2018 EDITION.
  - ENERGY EFFICIENCY COMPLIANCE AND INSULATION VALUES OF THE BUILDING TO BE IN ACCORDANCE WITH CHAPTER 11 OF THE NCRC, 2018 EDITION.

FOOTING AND FOUNDATION NOTES

- 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 BASE COURSE CONSISTING OF CLEAN GRADED SAND OR GRAVEL SHALL BE PLACED. A BASE COURSE IS NOT REQUIRED WHERE A CONCRETE SLAB IS INSTALLED ON WELL-DRAINED OR SAND-GRAVEL MIXTURE SOILS CLASSIFIED AS GROUP 1, ACCORDING TO THE UNITED SOIL CLASSIFICATION SYSTEM IN ACCORDANCE WITH TABLE R405.1 OF THE NCRC, 2018 EDITION.
- 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 NCRC, 2018 EDITION. CONCRETE REINFORCING STEEL TO BE ASTM A615 GRADE 60. WELDED WIRE FABRIC TO BE ASTM A185. MAINTAIN A MINIMUM CONCRETE COVER AROUND REINFORCING STEEL OF 3" IN FOOTINGS AND 1 1/2" IN SLABS. FOR POURED CONCRETE WALLS, CONCRETE COVER FOR REINFORCING STEEL MEASURED FROM THE INSIDE FACE OF THE WALL SHALL NOT BE LESS THAN 3/4". CONCRETE COVER FOR REINFORCING STEEL MEASURED FROM THE OUTSIDE FACE OF THE WALL SHALL NOT BE LESS THAN 1 1/2" FOR #5 BARS OR SMALLER, AND NOT LESS THAN 2" FOR #6 BARS OR LARGER.
- MASONRY UNITS TO CONFORM TO ACE 530/ASCE 5/11/15 402. MORTAR SHALL CONFORM TO ASTM C710.
- 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 M 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 NCRC, 2018 EDITION OR IN ACCORDANCE WITH ACI 318, ACI 332, NCHA TR68-A OR ACE 530/ASCE 5/11/15 402. MASONRY FOUNDATION WALLS ARE TO BE REINFORCED PER TABLE R404.1(1), R404.1(2), R404.1(3), OR R404.1(4) OF THE NCRC, 2018 EDITION. CONCRETE FOUNDATION WALLS ARE TO BE REINFORCED PER TABLE R404.1(5) OF THE NCRC, 2018 EDITION. STEP CONCRETE FOUNDATION WALLS TO 2 x 6 FRAMED WALLS AT 16" O.C. WHERE GRADE PERMITS (UNO).

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FRAMING NOTES

- ALL FRAMING LUMBER SHALL BE 2 SYP 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).
- 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 = 1550000 PSI. PARALLEL STRAND LUMBER (PSL) UP TO 1" DEPTH SHALL HAVE THE FOLLOWING MINIMUM PROPERTIES: Fc = 2500 PSI, E = 1800000 PSI. PARALLEL STRAND LUMBER (PSL) MORE THAN 1" DEPTH SHALL HAVE THE FOLLOWING MINIMUM PROPERTIES: Fc = 2300 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 5/16" PSON 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 ABOVE 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 NCRC, 2018 EDITION OR BE (2) 2 x 6 WITH (1) JACK AND (1) KING STUD EACH END (UNO) WHICHEVER IS GREATER. ALL HEADERS TO BE SECURED TO EACH JACK STUD WITH (4) 8d NAILS. ALL BEAMS TO BE SUPPORTED WITH (2) STUDS AT EACH BEARING POINT (UNO). INSTALL KING STUDS PER SECTION R602.15 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) 10d NAILS EA. FLY 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 NCRC, 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 10d 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 100 LB CAPACITY UPLIFT CONNECTORS TOP AND BOTTOM (UNO). POSTS MAY BE SECURED USING ONE SIMPSON H6 OR L1512 UPLIFT CONNECTOR FASTENED TO THE BAND AT THE BOTTOM AND THE BEAM AT THE TOP OF EACH POST. ONE 16" SECTION OF SIMPSON C516 COIL STRAPPING WITH (8) 8d HDG NAILS AT EACH END MAY BE USED IN LIEU OF EACH TRUSS STRAP IF DESIRED. FOR MASONRY OR CONCRETE FOUNDATION USE SIMPSON POST BASE.

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N.C. LICENSE NO.: C173

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

4/8/2020