

# ENGAGE H&H HOMES - GARAGE RIGHT

## PLAN REVISIONS

11-06-17	COMPLETED CONSTRUCTION DOCUMENTS INCLUDING CLIENT REVIEW COMMENTS.
11-16-17	REVISIONS TO CREATE LEFT HAND GARAGE VERSION.
09-12-18	STANDARD CLIENT CHANGES PER CLIENT WALK-THRU NOTES DATED 08-30-18. CHANGES INCLUDE BUT NOT LIMITED TO THE FOLLOWING: REMOVE OPT. LAUNDRY TRAY, REMOVE KITCHEN ISLAND BASECABINETS, AND FINISHING DROP UNDER CABINET, REMOVE ALL SECONDARY CLOSETS AND LINENS TO HAVE IN-FOLD DOORS, REMOVE WINDOW CROSSLINGS AND REAR ELEVATIONS, REMOVE DATA DROPS TO BE 1 PHONE IN KITCHEN AND 1 TV IN OWNER'S SUITE AND GATHERING ROOM ONLY, REMOVE COVERED PORCH OPTION, REMOVE KITCHEN LIGHTING TO BE 4-BALL FLUORESCENT LIGHT.  PLAN SPECIFIC CHANGES INCLUDE BUT NOT LIMITED TO THE FOLLOWING: CENTERED WINDOW AT GATHERING ROOM IN KITCHEN HALLWAY, REMOVE OPT. DOOR AT LAUNDRY, REMOVE OPT. WINDOW AT POWDER BATH AND BEDROOM 3, MAKE OPT. WINDOW AT LEFT STANDARD AND MAKE 2ND FLOOR HALL CLOSET 2-4 DOOR.
02-15-19	COMPLETED CLIENT COMMENTS.

SQUARE FOOTAGE		
AREA	ELEV. 'A'	ELEV. 'C'
1ST FLOOR	777 SQ. FT.	777 SQ. FT.
2ND FLOOR	308 SQ. FT.	308 SQ. FT.
TOTAL (HEATING)	1733 SQ. FT.	1733 SQ. FT.
GARAGE (UNHEATED)	239 SQ. FT.	239 SQ. FT.
KITCHEN	36 SQ. FT.	36 SQ. FT.
PATIO	80 SQ. FT.	80 SQ. FT.
OPTIONAL GARAGE	240 SQ. FT.	240 SQ. FT.
OPTIONAL PATIO	60 SQ. FT.	60 SQ. FT.

REVISIONS OF PLANS FROM THIS DRAWER'S OFFICE SHALL NOT REMOVE THE LIABILITY OF RESPONSIBILITY TO REVIEW AND VERIFY ALL WORK, INCLUDING, BUT NOT LIMITED TO, APPROVALS, PERMITS, AND CONFORMANCE WITH ALL APPLICABLE REGULATIONS AND ORDINANCES. ANY CONSTRUCTION OF WORK IN ACCORDANCE WITH THESE PLANS SHALL BE SUBJECT TO APPROVAL, FEES, AND ANY MODIFICATIONS OR WAIVER TO THESE PLANS BY ANY OTHER PARTY OTHER THAN THE DRAWER'S OFFICE. THE DRAWER SHALL NOT BE HELD RESPONSIBLE.



DATE	BY	DESCRIPTION
11-06-17		
11-16-17		
09-12-18		
02-15-19		



DRAMAING ON 11"X17" SHEET ARE ONE HALF THE SCALE NOTED

*Inv. Marked*

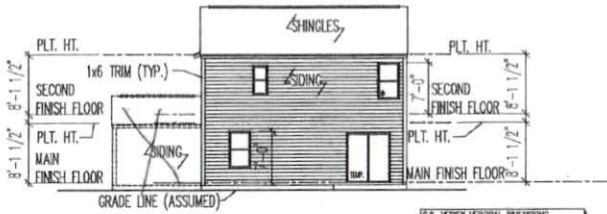
*CSQ000084*

ENGAGE  
H&H HOMES

1755

DATE  
REVISIONS

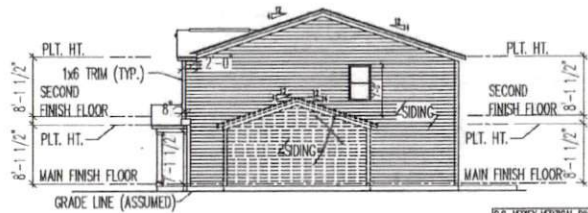
SHEET  
CS



REAR ELEVATION

I.C.C. VERIFY VERTICAL DIMENSIONS INCREASE BY 1'-0" W/ OPT. 9 FT. PLT. HT. EXCLUDING WINDOW OR LITS.

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



RIGHT ELEVATION

I.C.C. VERIFY VERTICAL DIMENSIONS INCREASE BY 1'-0" W/ OPT. 9 FT. PLT. HT. EXCLUDING WINDOW OR LITS.

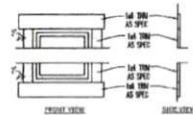
SCALE: 1/8" = 1'-0"



LEFT ELEVATION

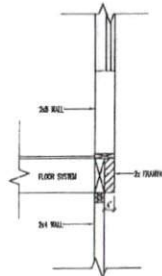
I.C.C. VERIFY VERTICAL DIMENSIONS INCREASE BY 1'-0" W/ OPT. 9 FT. PLT. HT. EXCLUDING WINDOW OR LITS.

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



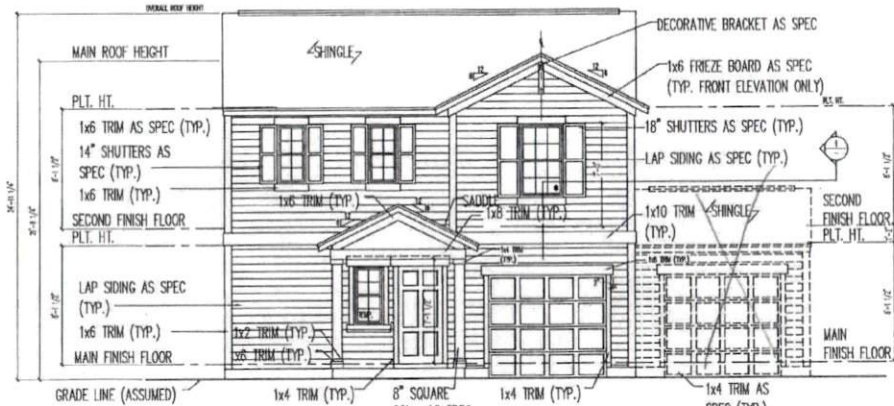
TRIM DETAIL

SCALE: 3/16" = 1'-0"



CANTILEVER DETAIL 1

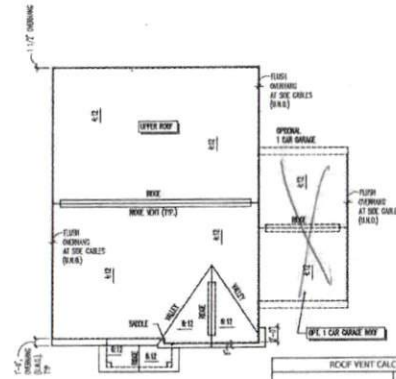
SCALE: 1/8" = 1'-0"



FRONT ELEVATION

I.C.C. VERIFY VERTICAL DIMENSIONS INCREASE BY 1'-0" W/ OPT. 9 FT. PLT. HT. EXCLUDING WINDOW OR LITS.

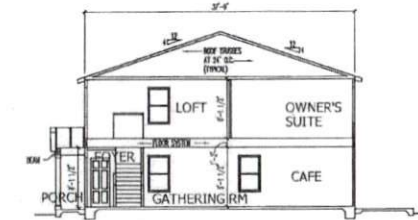
SCALE: 1/8" = 1'-0"



ROOF PLAN

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

ROOF VENT CALCULATIONS	
UPPER ROOF	OPT. 1 CAR GARAGE
ATTIC AREA	1,046 SQ. FT. 240 SQ. FT.
NET FREE VENT AREA (MINIMUM)	340 SQ. IN. 110 SQ. IN.
NET FREE VENT AREA (REQUIRED)	201 SQ. IN. 50 SQ. IN.
AREA RESERVED	201 SQ. IN. 50 SQ. IN.
VERIFY THAT ROOF VENT EQUALS OR EXCEEDS THE PROPORTION OF NET FREE AREA PER CODE	



SECTION AA

I.C.C. VERIFY VERTICAL DIMENSIONS INCREASE BY 1'-0" W/ OPT. 9 FT. PLT. HT. EXCLUDING WINDOW OR LITS.

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

CONTRACTOR SHALL VERIFY THE DIMENSIONS OF ALL MATERIALS AND THE QUALITY OF ALL CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS.

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



FOR NAME	8-11-17
DATE	11-28-17
DESIGN	11-28-17
REVISION	11-28-17
DATE	11-28-17



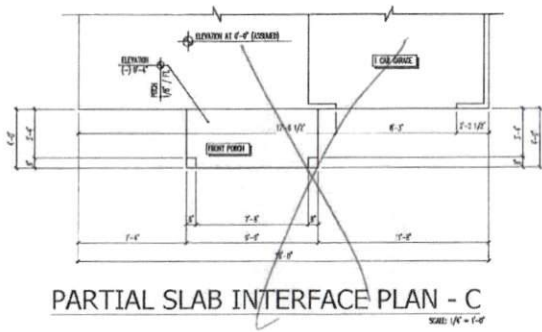
DRRAWINGS ON 11x17 SHEET ARE ONE HALF THE SCALE NOTED

ENGAGE H&H HOMES

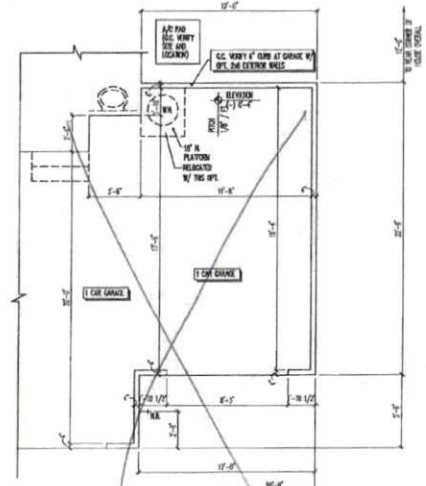
1755

FRONT ELEVATION  
REAR ELEVATION  
LEFT ELEVATION  
ROOF PLAN  
BUILDING SECTION

SHEET  
A3.0

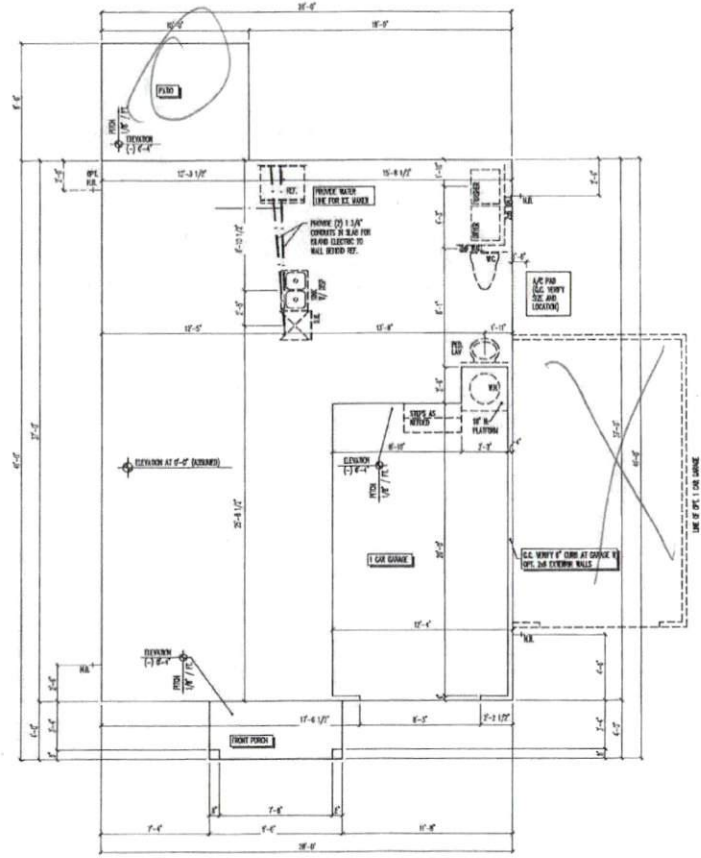


PARTIAL SLAB INTERFACE PLAN - C  
SCALE: 1/4" = 1'-0"



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

DISCLAIMER OF PLANS FROM THIS CONTRACTOR SHALL NOT RELIEVE THE OWNER OF RESPONSIBILITY TO REVIEW AND VERIFY ALL NOTES, SPECIFICATIONS, AND APPLICABLE BUILDING CODES PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION.  
NOT RESPONSIBILITY OF OWNER IN HOTEL, MANUFACTURING OR AGRICULTURE BUILDING CODES SHALL BE BROUGHT TO THE ATTENTION OF THE CONTRACTOR PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION.  
NOT RESPONSIBILITY OF CONTRACTOR, BUT RELATED TO THE CONNECTION OF FIXTURES THAT ARE MADE AFTER THE FINAL PLANS HAVE BEEN COMPLETED SHALL BE SUBJECT TO ACCEPTANCE TESTS.  
IF ANY DISCREPANCIES ARE MADE TO THESE PLANS BY ANY OTHER PARTY OTHER THAN THE CONTRACTOR'S OFFICE, THE CONTRACTOR SHALL NOT BE HELD RESPONSIBLE.



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

ELECTRICAL INSTALLATION OF GARAGE GAS SHUTS AT SPECIFIC APPROVED LOCATIONS.  
REFER TO DIVISION PLAN FOR DIMENSION NET TINGS.

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



JOB NUMBER	9-1813476
DATE PLOT SCALE	7/15/14
DRAWN	11-28-17
CHECKED	09-22-18
DATE	08-11-18

**DAVIS DEWIS**  
ARCHITECTS

REGISTERED ARCHITECT  
1000 N. 10TH ST., SUITE 100  
DENVER, CO 80202  
WWW.DAVISDEWIS.COM

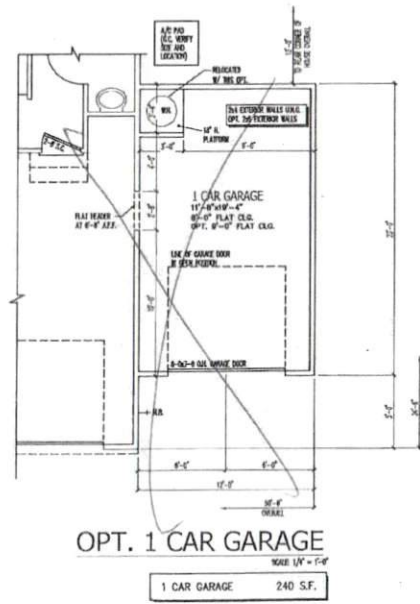
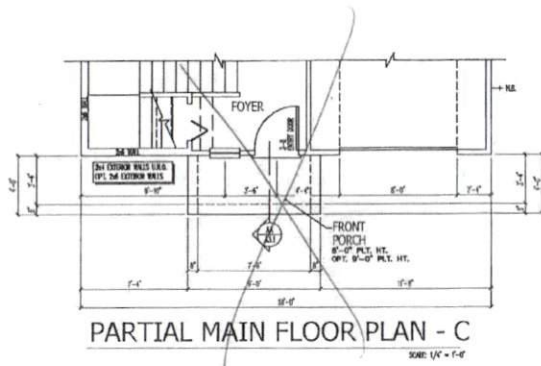
DRAWINGS ON 11"X17" SHEET ARE ONE HALF THE SCALE NOTED.

ENGAGE  
H&H HOMES

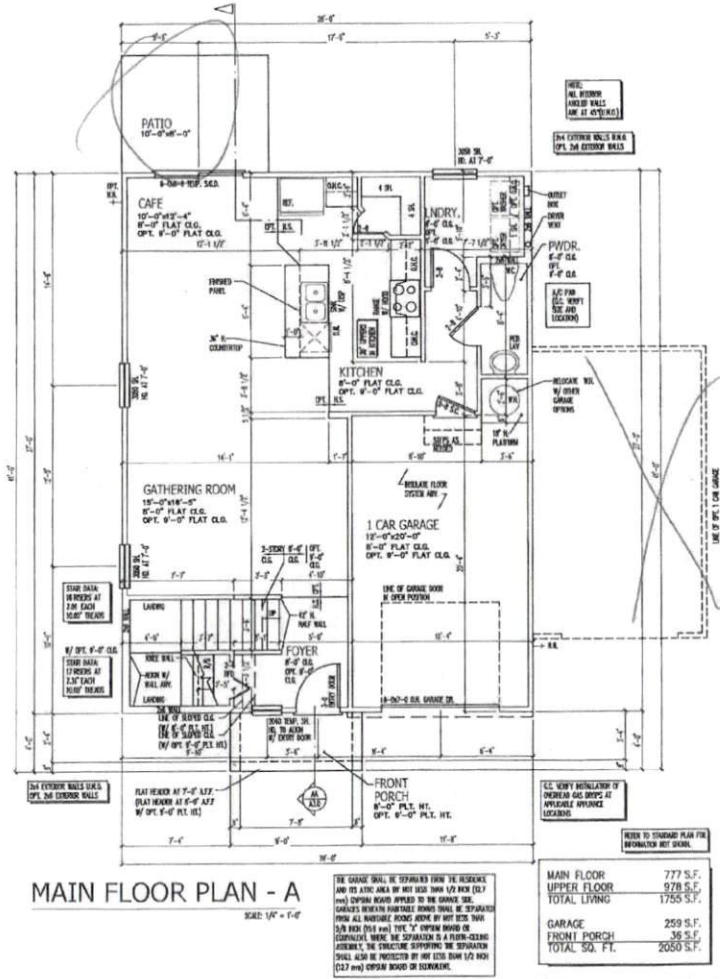
1755

SLAB INTERFACE PLAN  
OPTIONAL GARAGE PLAN

SHEET  
**A1.0**



REMARKS OF PLANS FROM THE DRAWER'S OFFICE SHALL NOT RELIEVE THE DRAWER OF RESPONSIBILITY TO REVIEW AND VERIFY ALL NOTES, DIMENSIONS, AND REFERENCES TO APPLICABLE DRAWING CODES PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION.  
ANY DISCREPANCY OF DIMENSION IN NOTES, DIMENSIONS, OR REFERENCES TO APPLICABLE DRAWING CODES SHALL BE SUBJECT TO THE JUDGMENT OF THE DRAWER'S OFFICE FOR CORRECTION BEFORE COMMENCEMENT OF ANY CONSTRUCTION.  
NOT REPRODUCED OR COPIED, NOT RELATED TO THE CONNECTION OF DIMENSIONS SHALL BE MADE UNLESS THE DIMENSIONS HAVE BEEN CHECKED SHALL BE SUBJECT TO ADDITIONAL NOTES.  
IF ANY DISCREPANCIES ARE MADE TO THESE PLANS BY ANY OTHER PARTY OTHER THAN THE DRAWER'S OFFICE, THE DRAWER SHALL NOT BE HELD RESPONSIBLE.



THE GARAGE SHALL BE SEPARATED FROM THE RESIDENCE AND ITS ATIC AREA BY NOT LESS THAN 1/2" INCH (12.7 mm) CONCRETE BLOCKS APPLIED TO THE GARAGE SIDE. GARAGES SEPARATED FROM THE RESIDENCE SHALL BE SEPARATED FROM ALL WALKABLE SURFACE ABOVE BY NOT LESS THAN 1/2" INCH (12.7 mm) CONCRETE BLOCKS OR EQUIVALENT. WHERE THE SEPARATION IS A FLOOR-CEILING JOINT, THE STRUCTURE SUPPORTING THE SEPARATION SHALL ALSO BE PROVIDED BY ONE (1) INCH (25.4 mm) CONCRETE BLOCK OR EQUIVALENT.

MAIN FLOOR	777 S.F.
UPPER FLOOR	978 S.F.
TOTAL LIVING	1755 S.F.
GARAGE	259 S.F.
FRONT PORCH	36 S.F.
TOTAL SQ. FT.	2050 S.F.

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



NO. DRAWN	10-2018-01
DATE PLOTTED	1/28/20
SCALE	1/4" = 1'-0"
REVISION	01-12-20
	02-12-20
	03-12-20

**DAVIS BREWS**  
DESIGN GROUP

INDUSTRIAL DESIGN GROUP  
10000 BAYVIEW BLVD. SUITE 100  
DALLAS, TEXAS 75244  
PHONE: 972.993.8800  
WWW.DAVISBREWS.COM

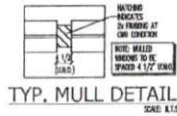
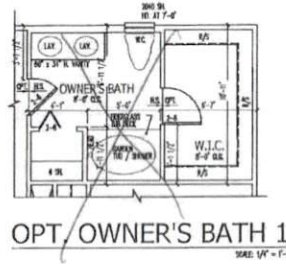
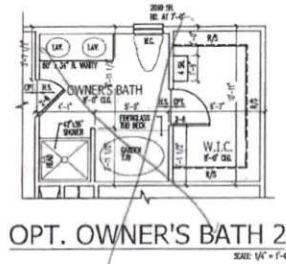
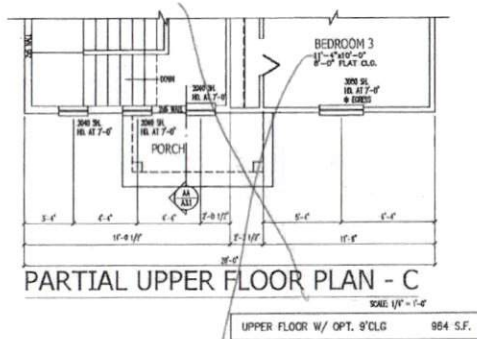
DRAWINGS ON 11"x17"  
SHEET ARE ONE HALF  
THE SCALE NOTED

**ENGAGE**  
**H&H HOMES**

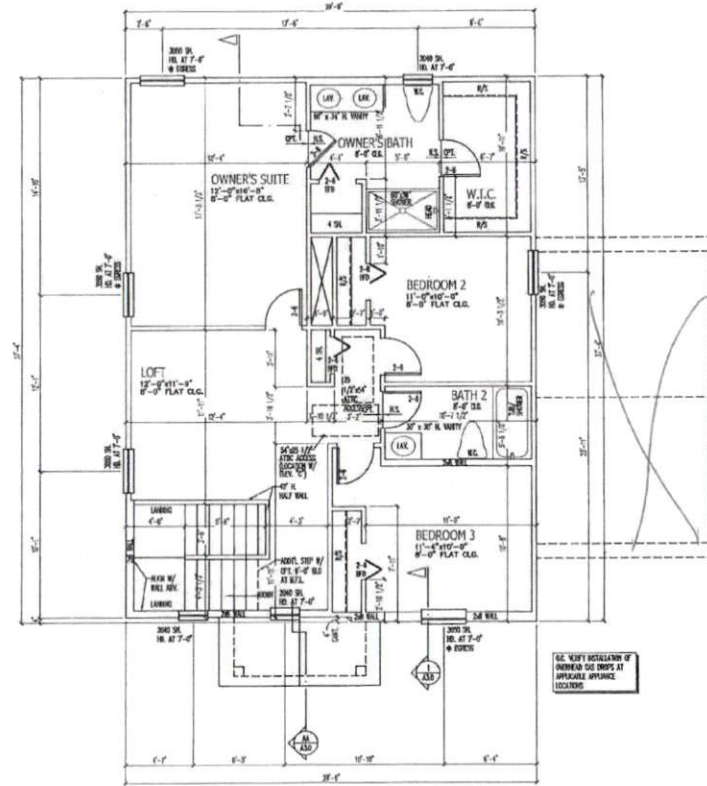
1755

WILE  
MAIN FLOOR PLAN  
OPTIONAL GARAGE PLAN

SHEET  
**A2.0**



REVISIONS OF PLANS FROM THIS DRAWING OFFICE SHALL NOT RELIEVE THE DESIGNER OF RESPONSIBILITY TO REVIEW AND VERIFY ALL DETAILS, CONDITIONS, AND REFERENCES TO APPLICABLE CODES PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION. ANY DISCREPANCY OF CODES IN MODEL, SPECIFICATIONS, OR REFERENCES TO APPLICABLE BUILDING CODES SHALL BE SUBJECT TO THE JUDGMENT OF THE CONTRACTOR'S OFFICE FOR CORRECTION BEFORE COMMENCEMENT OF ANY CONSTRUCTION. ANY REVISIONS OR CHANGES, NOT BELONGING TO THE CONTRACTOR'S OFFICE SHALL BE MADE AFTER THE FINAL PLANS HAVE BEEN COMPLETED SHALL BE SUBJECT TO ADDITIONAL FEES. IF ANY DISCREPANCIES ARE MADE TO THESE PLANS BY ANY OTHER PARTY OTHER THAN THE DESIGNER'S OFFICE, THE DESIGNER SHALL NOT BE HELD RESPONSIBLE.



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



DATE	11-15-17
BY	11-15-17
CHECKED	11-15-17
REVISION	11-15-17

DAVIS DEWES  
DESIGN GROUP

1000 W. STATE STREET  
SUITE 200  
TAMPA, FL 33606  
WWW.DAVISDEWES.COM

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

ENGAGE  
H&H HOMES

1755

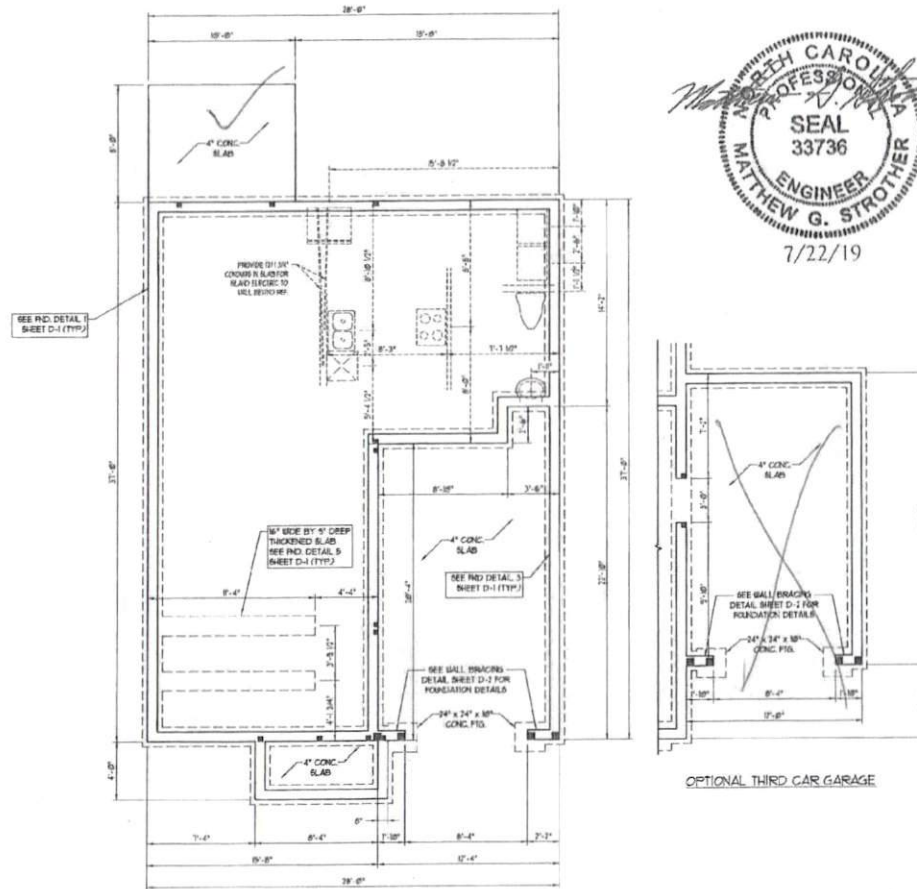
UPPER FLOOR PLAN  
OWNER'S BATH OPTIONS

SHEET  
A2.1





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



- ON PERMITS/STATE DESIGN/SEAL  
NOTES/SCALE/NO. THAN  
MEAN ROOF HEIGHT:
1. ENGINEER SEAL APPLIES ONLY TO STRUCTURAL COMPONENTS. ENGINEER SEAL DOES NOT CERTIFY OPERATIONAL ACCURACY OR ARCHITECTURAL LAYOUT INCLUDING ROOF SYSTEMS.
  2. ENGINEER SEAL PER NORTH CAROLINA PROFESSIONAL CODE, 88B EDITION WITH SPECIAL CONSIDERATION TO CHAPTER 16 PLUMBING JOINTS FOR THE 17TH EDITION.
  3. BULKHEAD IS TO PROVIDE PROPER CONNECTION AS REQUIRED BY CHAPTER 16 (TYPICAL JOINTS FOR 60 PPM) SECTION OF THE NORTH CAROLINA PROFESSIONAL CODE, 88B EDITION.
  4. FIBERGLASS REINFORCE TO CORRECTLY SIZE SECTION AREA OF THE ROOF GARAGE SLAB PERMISSIBLE CODE, 88B EDITION.
  5. FINAL ROOF HEIGHT IS LESS THAN 16 FEET. WALL CLADDING DERIVED FOR 0.5 PPM AND 10 PPM FOR 14' RESISTIVE PERFORMANCE (R-VALUE) PERFORMANCE (R-VALUE).
  6. ROOF CLADDING DERIVED FOR 0.5 PPM AND 10 PPM FOR ROOF PITCHES TO 10 TO 12 AND 40 PPM AND 10 PPM FOR ROOF PITCHES 20 TO 10.
  7. 100% RIB BRACING IS REQUIRED ON ALL EXTERIOR WALLS.
  8. WALLS TO BE BRACED IN ACCORDANCE WITH SECTION NUMBER OF THE NORTH CAROLINA PROFESSIONAL CODE, 88B EDITION AND AS NOTED ON SLAB.
  9. ENERGY EFFICIENCY COMPLIANCE AND PENALTY VALUES OF THE BUILDING TO BE IN ACCORDANCE WITH CHAPTER 16 OF THE NCBC, 88B EDITION.

- ON PERMITS/STATE DESIGN/SEAL  
NOTES/SCALE/NO. THAN  
MEAN ROOF HEIGHT:
1. ENGINEER SEAL APPLIES ONLY TO STRUCTURAL COMPONENTS. ENGINEER SEAL DOES NOT CERTIFY OPERATIONAL ACCURACY OR ARCHITECTURAL LAYOUT INCLUDING ROOF SYSTEMS.
  2. ENGINEER SEAL PER NORTH CAROLINA PROFESSIONAL CODE, 88B EDITION.
  3. WALLS TO BE BRACED IN ACCORDANCE WITH SECTION NUMBER OF THE NORTH CAROLINA PROFESSIONAL CODE, 88B EDITION AND AS NOTED ON SLAB.
  4. FINAL ROOF HEIGHT IS LESS THAN 16 FEET. EXTERIOR WALLS DERIVED FOR 60 PPM RIBS.
  5. WALL CLADDING DERIVED FOR 0.5 PPM AND 10 PPM FOR 14' RESISTIVE PERFORMANCE (R-VALUE) PERFORMANCE (R-VALUE).
  6. ROOF CLADDING DERIVED FOR 0.5 PPM AND 10 PPM FOR ROOF PITCHES TO 10 TO 12 AND 40 PPM AND 10 PPM FOR ROOF PITCHES 20 TO 10.
  7. 100% RIB BRACING ON ALL EXTERIOR WALLS OF ALL BUILDINGS IN ACCORDANCE WITH SECTION NUMBER OF THE NCBC, 88B EDITION. SEE FOR WALL BRACING NOTES AND DETAILS SHEET FOR FURTHER INFORMATION.
  8. ENERGY EFFICIENCY COMPLIANCE AND PENALTY VALUES OF THE BUILDING TO BE IN ACCORDANCE WITH CHAPTER 16 OF THE NCBC, 88B EDITION.
  9. REFER TO NOTES AND DETAIL SHEETS FOR ADDITIONAL STRUCTURAL INFORMATION.

**J.S. THOMPSON**  
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100 W. HUNTER STREET  
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PHONE: (704) 784-1100 FAX: (704) 784-1101  
E: JSTHOMPSON@JSTHOMPSON.COM

ENGAGE GARAGE RIGHT  
H & H HOMES

DATE: 7/22/19  
SCALE: 1/4" = 1'-0"  
DRAWN BY: JACOB DEBOER  
CHECKED BY: JACOB DEBOER  
DATE: 7/22/19

SHEET 3 OF 8  
S-1c  
STEELWALL SLAB  
FOR FOUNDATION PLAN





SCALE NOTE:  
LARGE FORMAT PRINTS ARE TO SCALE AS NOTED.  
8" x 11" 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. (UNO). 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 NUMBER OF THE NCRC-1918 EDITION.
- CONCRETE REFER TO CONTINUOUS SHEATHING - (WOOD STRUCTURAL PANELS) CONTRACTOR IS TO INSTALL 1/2" OSB ON ALL EXTERIOR WALLS ATTACHED WITH NAILS SPACED 6" O.C. ALONG PANEL EDGES AND 12" O.C. IN THE FIELD.
- THIS REFERS TO "GYPSUM BOARD" CONTRACTOR IS TO INSTALL 1/2" GYPSUM BOARD SHEATHING ON THE PLUMB FASTENERS WITH 1 1/4" SCREWS OR 1 1/2" 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 100 MPH. FOR HIGH WIND ZONES BRACED WALLS ARE TO BE CONSTRUCTED IN ACCORDANCE WITH CHAPTER 65 OF THE NCRC-1918 EDITION. SEE NOTES AND DETAIL SHEETS FOR ADDITIONAL BRACED WALL INFORMATION.

NOTE:

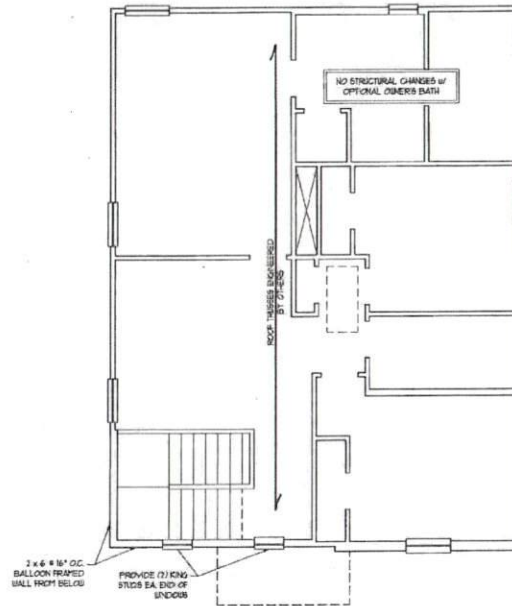
- PER SECTION NUMBER OF THE 2018 NCRC, THE AMOUNT OF BRACING ON THE SECOND FLOOR EXCEEDS THE AMOUNT REQUIRED FOR THE FIRST FLOOR AND NO BRACED WALL ANALYSIS IS REQUIRED.
- SEATH ALL EXTERIOR WALLS WITH 1/2" OSB SHEATHING ATTACHED WITH 6D NAILS AT 6" O.C. ALONG PANEL EDGES AND 12" O.C. IN THE FIELD.

STRUCTURAL NOTES:

- ALL FRAMING LUMBER TO BE SFF #1 (UNO).
- ALL TREATED LUMBER TO BE SFF #2 (UNO).
- ALL LOAD BEARING HEADERS TO BE (2) 2 x 6 (UNO).
- WINDOW AND DOOR HEADERS TO BE SUPPORTED WITH JACK STUDS AND TILING INTO EA. END (UNO). SEE TABLE NOTES FOR ADDITIONAL KINZ BRID REQUIREMENTS.
- SQUARES DENOTE PORT LUGS WHICH REQUIRE BOLD BLOCKING TO GROUND OR FOUNDATION. ALL SQUARES TO BE (7) STON BRID.
- FOR HIGH WIND ZONES, ALL EXTERIOR WALLS TO BE SHEATHED WITH 1/2" OSB SHEATHING WITH JOINTS BLOCCED AND SECURED WITH 6D 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 PLATE BRANCH JOINTS AND GROUERS WITH (2) ROWS OF 6D NAILS STAGGERED AT 3" O.C. PANELS SHALL EXTEND 2" BEYOND CONNECTION JOINTS AND SHALL OVERLAP GROUNDERS AND DOUBLE GILL PLATES THEIR FULL DEPTH.
- REFER TO NOTES AND DETAIL SHEETS FOR ADDITIONAL STRUCTURAL INFORMATION.

TABLE NOTES:  
FIRSTLY NUMBER OF FULL HEIGHT SHEETS AT EACH END OF HEADINGS IN EXTERIOR WALLS

HEADER SPAN FEET	THIRTYFOUR INCHES (FEET) PER TABLE BEARING	
	B	34
UP TO 3'	1	1
4'	2	1
5'	3	2
6'	4	3
8'	6	4



ELEVATION A



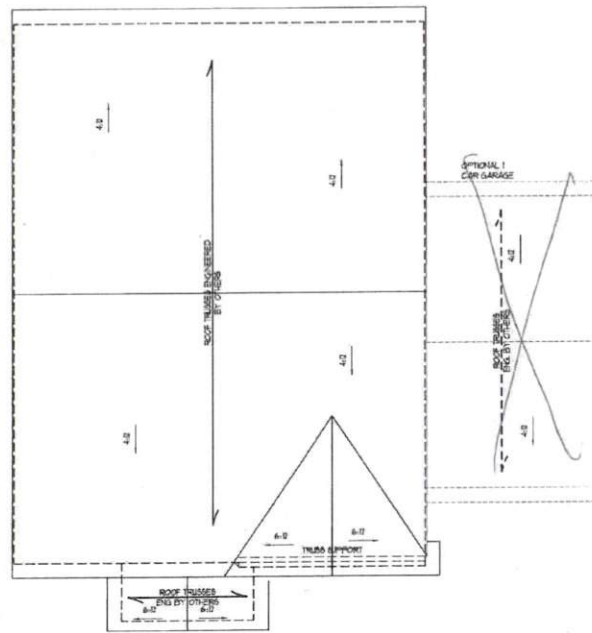
J.S. THOMPSON  
ENGINEERING, INC.  
REGISTERED PROFESSIONAL ENGINEER  
STATE OF NORTH CAROLINA  
P.E. LICENSE NO. 10171

ENGAGE GARAGE RIGHT  
H & H HOMES

DATE: 7/22/19  
SCALE: 1/4" = 1'-0"  
DRAWN BY: ENGINEER/STW/ACD  
CHECKED BY: STW

SHEET 5 OF 8  
S-3a  
CEILING FRAMING  
PLAN ELEV. A

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



ELEVATION A

- STRUCTURAL NOTES:
1. ALL FRAMING LUMBER TO BE #2 SPF (S1).
  2. CIRCLES DENOTE (3) 2 x 4 POSTS FOR ROOF SUPPORT.
  3. FRAME CORNER WALLS ON TOP OF DOUBLE OR TRIPLE RAFTERS.
  4. RIP APPLICES ARE TO BE SPACED A MAX OF 8" O.C. RAFTER MEMBERS WITH THREE ROWS OF 8D NAILS # 8" O.C. (TYP).
  5. STUD FRAME OVER RAISED ROOF SECTIONS BY 2 x 8 RIDGES, 2 x 6 RAFTERS # 8" O.C. AND FLAT 2 x 12 VALLEYS OR SEE VALLEY TRUSSES.
  6. FASTEN FLAT VALLEYS TO RAFTERS OR TRUSSES WITH 8D-NAIL (2) IN HURRICANE TIES # 12" O.C. MAX. PASS HURRICANE TIES THROUGH ROOF IN ROOF SHEATHING. EACH RAFTER IS TO BE FASTENED TO THE FLAT VALLEY WITH A MIN. OF 6/16D 10D NAILS.
  7. REFER TO SECTION NOTES OF THE JOB BOOK FOR REQUIRED UPLIFT RESISTANCE AT RAFTERS AND TRUSSES.
  8. REFER TO NOTES AND DETAIL SHEETS FOR ADDITIONAL STRUCTURAL INFORMATION.



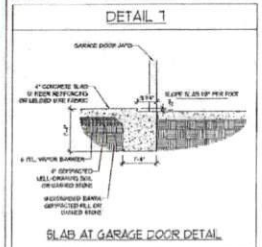
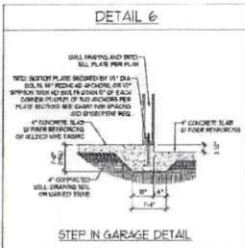
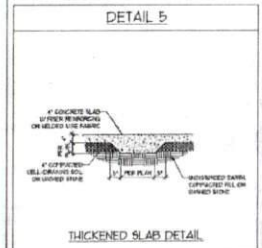
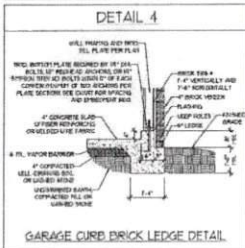
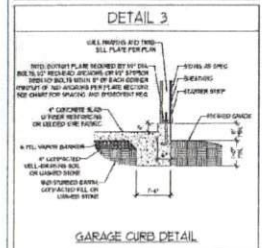
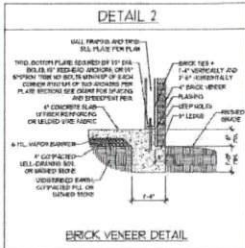
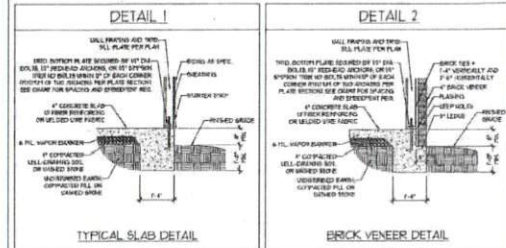
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H & H HOMES

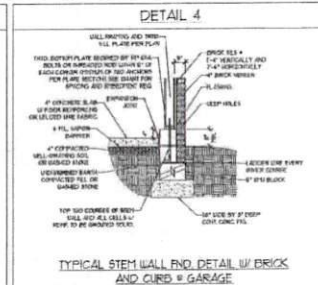
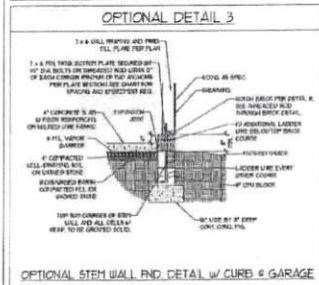
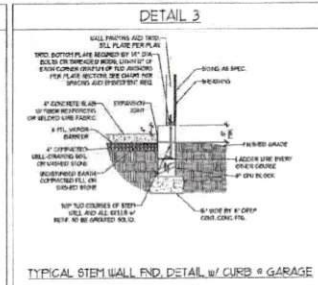
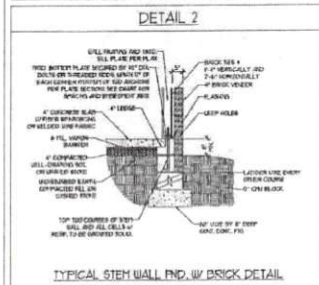
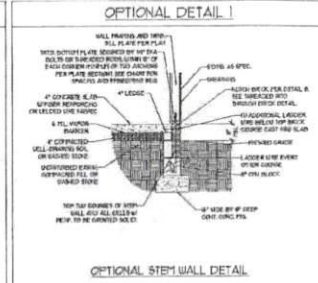
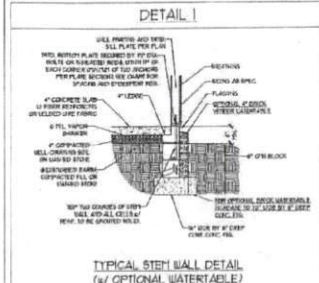
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DRAWN BY: PAVELIUS I. PRINCE  
FOR CHECKED BY: JST

SHEET 7 OF 8  
S-4a  
ROOF FRAMING  
PLAN

MONOLITHIC SLAB DETAILS



STEM WALL DETAILS



MASONRY STEM WALL SPECIFICATIONS

WALL HEIGHT (FEET)	MASONRY WALL TYPE			
	8\"/>			
2 AND BELOW	UNGRADED	GRADE SOLID	UNGRADED	UNGRADED
3	UNGRADED	GRADE SOLID	UNGRADED	UNGRADED
4	GRADE SOLID	GRADE SOLID	GRADE SOLID	GRADE SOLID w/ REBAR # 4 @ 6\"/>
5	GRADE SOLID w/ REBAR # 3 @ 6\"/>	NOT APPLICABLE	GRADE SOLID w/ REBAR # 4 @ 6\"/>	GRADE SOLID w/ REBAR # 4 @ 6\"/>
6	GRADE SOLID w/ REBAR # 4 @ 6\"/>	NOT APPLICABLE	GRADE SOLID w/ REBAR # 4 @ 6\"/>	GRADE SOLID w/ REBAR # 4 @ 6\"/>
7 AND GREATER	ENGRADED DENSITY RATED OR SITE CONCRETION			

- STRUCTURAL NOTES:
- WALL HEIGHT MEASURED FROM TOP OF FOOTING TO TOP OF THE WALL
  - RE PLACE TIES TOGETHER WITH A LAP SPACING AT 12\"/>
  - CHART APPLICABLE FOR HOME FOUNDATION ONLY. CONSULT ENGINEER FOR DESIGN OF GARAGE FOUNDATION NOT COVERED IN HOUSE.
  - BACKFILL OF EXPOSED 12\"/>
  - BACKFILL OF WALL EXPOSED ON LAND - GRAVEL FUTURE BUILT (AS PER BT BELOW BRIDGE) CLASSIFIED AS GROUP 1 ACCORDING TO TYPED SOILS CLASSIFICATION TABLE IN ACCORDANCE WITH TABLES OF THE 2009 INTERNATIONAL RESIDENTIAL CODE AND ALLOWABLE.
  - PREP SLAB PER (S301) AND (S302) BASE OF THE 2009 INTERNATIONAL RESIDENTIAL CODE.
  - LOCATE REBAR IN CENTER OF FOUNDATION WALL.
  - ENGINE REQUIRED FULL BLOCK SOLID W/ MIN TYPE 1\"/>

ANCHOR SPACING AND EMBEDMENT

WIND ZONE	DB FPM	120 FPM
SPACING	4\"/>	
EMBEDMENT	7\"/>	



**J.S. THOMPSON ENGINEERING INC.**  
 100 W. HARRIS STREET, SUITE 100  
 RALEIGH, NC 27601  
 TEL: 919.876.1111 FAX: 919.876.1112  
 E: JSTHOMPSON@JSTHOMPSON.COM

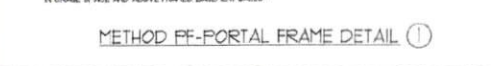
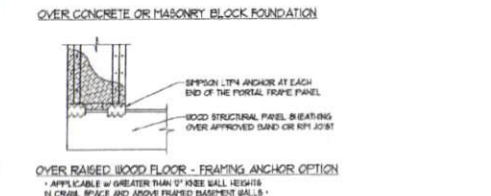
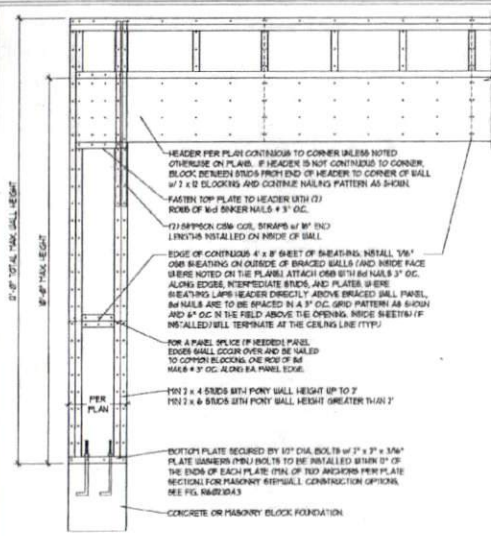
120 MPH - 130 MPH ULTIMATE DESIGN WIND SPEED  
 FOUNDATION DETAILS

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DRAWN BY: JF
CHECKED BY: JF

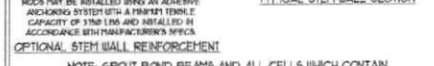
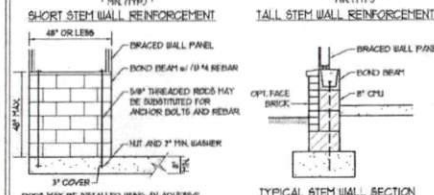
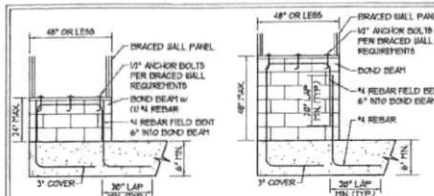
D-1 FOUNDATION DETAILS

**GENERAL WALL BRACING NOTES:**

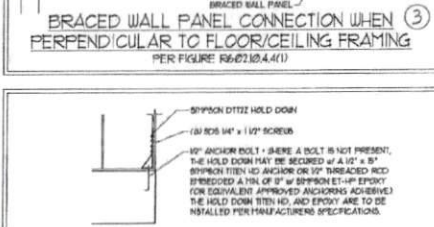
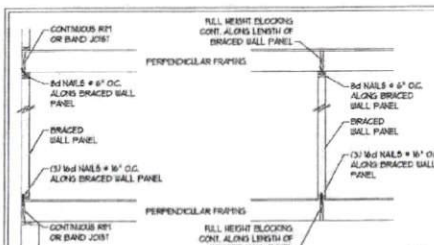
1. WALL BRACING DESIGNED IN ACCORDANCE WITH CHAPTER 6 OF THE 2009 IBC RESIDENTIAL BUILDING CODE (RBC) TABLES AND FIGURES REFERENCED ARE FROM THE 2009 IBC.
2. SEE THIS SHEET FOR GENERAL DETAILS. REFER TO THE 2009 IBC FOR ADDITIONAL INFORMATION AS NEEDED.
3. BRACED EXTERIOR WALLS SUPPORTING ROOF TRUSSES AND RAFTERS, INCLUDING STORIES BELOW THE TOP FLOOR, HAVE BEEN DESIGNED PER R607.3(1) WALL BRACING AND FASTENERS HAVE BEEN DESIGNED TO RESIST COMBINED UPLIFT AND DOWN FORCE IN ACCORDANCE WITH ACCEPTED ENGINEERING PRACTICE.
4. SEE STRUCTURAL NOTES FOR BRACED WALL LOCATIONS, CONDITIONS, HOLD DOWN TYPE AND LOCATIONS, BRACED WALL KEY UP 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 OS-B/P IN ACCORDANCE WITH SECTION R602.3(1) UNLESS NOTED OTHERWISE.
6. ALL EXTERIOR AND INTERIOR WALLS TO HAVE 1/2" GYPSUM INSTALLED, WHEN NOT USING METHOD "C", GYPSUM TO BE FASTENED PER TABLE R602.3(1) METHOD "C" TO BE FASTENED PER TABLE R602.3(1).
7. OS-B/P REFER TO THE "CONTINUOUS SHEATHING - WOOD STRUCTURAL PANEL" WALL BRACING METHOD. 1/2" OSB SHEATHING IS TO BE INSTALLED ON ALL EXTERIOR WALLS ATTACHED TO 4" CONCRETE WALLS OR 8" (10" LONG x 8" O.D.) DIAMETER PILES SPACED 4' O.C. ALONG PANEL EDGES AND BY 2' IN THE FIELD (LONG).
8. OSB REFER TO THE "GYPSUM BOARD" WALL BRACING METHOD. 1/2" (5/8" GYPSUM) WALL BOARD IS TO BE INSTALLED ON BOTH SIDES OF THE BRACED WALL, FASTENED WITH 1/4" SCREWS OR 1 1/8" NAILS, BRACED 7' O.C. ALONG PANEL EDGES INCLUDING TOP AND BOTTOM PLATES AND INTERMEDIATE SUPPORTS (ONLY). VERIFY ALL FASTENER OPTIONS FOR 1/2" AND 5/8" GYPSUM PRIOR TO CONSTRUCTION. FOR INTERIOR FASTENERS OPTIONS SEE TABLE R602.3(1). FOR EXTERIOR FASTENERS OPTIONS SEE TABLE R602.3(1). EXTERIOR OSB TO BE INSTALLED VERTICALLY.
9. REQUIRED BRACED WALL LENGTH FOR EACH SIDE OF THE CIRCUMSCRIBED RECTANGLE ARE INTERPOLATED PER TABLE NAIL, NAIL METHOD, OS-B/P CONTAINER, FS ACTUAL LENGTH, PERIODIC FS CONTAINER S IN ACTUAL LENGTH, AND METHOD FS CONTAINER S IN THIS IN ACTUAL LENGTH.



**METHOD PF-PORTAL FRAME DETAIL** ①

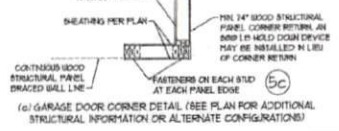
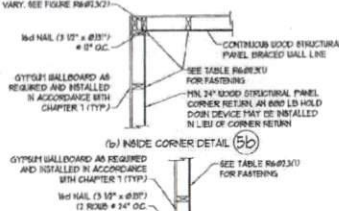
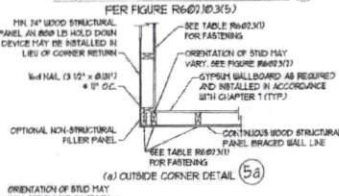


**MASONRY STEM WALLS SUPPORTING BRACED WALL PANELS** ②

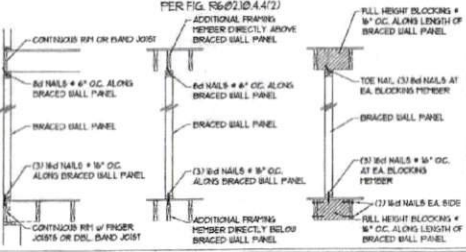


**HOLD DOWN DETAIL FOR MASONRY FOUNDATION OR MONOLITHIC SLAB** ④

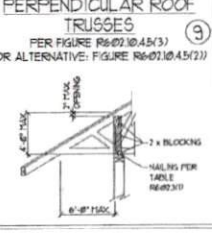
**TYPICAL EXTERIOR CORNER FRAMING FOR CONTINUOUS SHEATHING** ⑤



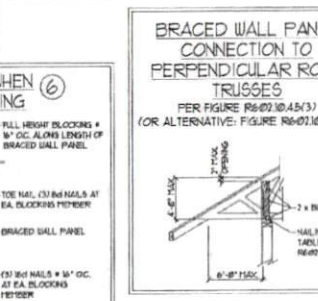
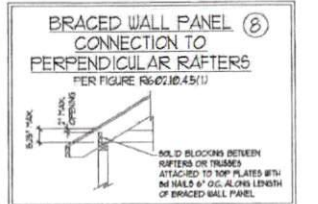
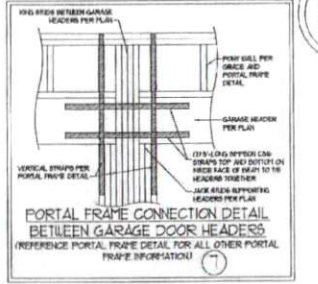
**BRACED WALL PANEL CONNECTION WHEN PARALLEL TO FLOOR/CEILING FRAMING** ⑥



**BRACED WALL PANEL CONNECTION TO PERPENDICULAR ROOF TRUSSES** ③



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



**J.S. THOMPSON ENGINEERING, INC.**  
REGISTERED PROFESSIONAL ENGINEER  
EXPIRES 12/31/2021  
N.C. LICENSE NO. 12171

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

**SEAL**  
33736  
**ENGINEER**  
**MATTHEW G. STROTHER**  
7/22/19

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**GENERAL NOTES**

- ENGINEER'S SEAL APPLIES ONLY TO STRUCTURAL COMPONENTS INCLUDING ROOF RAFTERS, VALLEYS, RIDGES, FLOORS, WALLS, BEAMS, HEADERS, COLUMNS, CANTILEVERS, ARCHES, LOAD BEARING WALLS, PIER, GIRDER SYSTEM AND FOOTING. ENGINEER'S SEAL DOES NOT CERTIFY DIMENSIONAL ACCURACY OF ARCHITECTURAL LAYOUT INCLUDING ROOF. ENGINEER'S SEAL DOES NOT APPLY TO JOIST OR FLOORING TRUSS LAYOUT DESIGN AND ACCURACY.
- ALL CONSTRUCTION SHALL CONFORM TO THE LATEST REQUIREMENTS OF THE NORTH CAROLINA RESIDENTIAL CODE (NRC) 2008 EDITION PLUS ALL LOCAL CODES AND REGULATIONS. THE STRUCTURAL ENGINEER IS NOT RESPONSIBLE FOR, AND WILL NOT HAVE CONTROL OF, CONSTRUCTION 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, 2008 EDITION (RUBRA - R0213)

DESIGN CRITERIA	LIVE LOAD (PSF)	DEAD LOAD (PSF)	DEFLECTION (IN)
ATTIC WITH LIMITED STORAGE	20	10	LOAD FLAMB w/ BRITTLE FIBERS
ATTIC WITHOUT STORAGE	10	10	LOAD
DECKS	40	10	LOAD
EXTERIOR BALCONIES	40	10	LOAD
FIRE ESCAPES	40	10	LOAD
HANDRAILS/BALUSTRADES	200 LB OR 50 (PLF)	10	LOAD
PASSENGER VEHICLE GARAGE	50	10	LOAD
NOISES OTHER THAN SLEEPING ROOM	40	10	LOAD
SLEEPING ROOMS	30	10	LOAD
STAIRS	40	10	LOAD
WIND LOAD (BASED ON TABLE R0201(4) WIND ZONE AND EXPOSURE)			
GROUND SNOW LOAD: Pg	20 (PSF)		

- 1. JOIST SYSTEMS DESIGNED WITH 2 PSF CEILING LOAD AND DEFLECTION (NO OF LAMB - FLOOR TRUSS SYSTEMS DESIGNED WITH 3 PSF DEAD LOAD)
- FOR IS AND 10R PNL END ZONES FOUNDATION ANCHORAGE IS TO COMPLY WITH SECTION 806(A) OF THE NRC, 2008 EDITION. FOR 10R PNL 14R PNL AND 10R PNL END ZONES FOUNDATION ANCHORAGE IS TO COMPLY WITH SECTION 806(A) OF THE NRC, 2008 EDITION.
- ENERGY EFFICIENCY COMPLIANCE AND INSULATION VALUES OF THE BUILDING TO BE IN ACCORDANCE WITH CHAPTER 3 OF THE NRC, 2008 EDITION.

**FOOTING AND FOUNDATION NOTES**

- FOUNDATION DESIGN BASED ON A MINIMUM ALLOWABLE BEARING CAPACITY OF 2500 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 SUFFICIENT SUPPORT OF THE SLAB AND EXCEPT WHERE APPROVED, THE FILL DEPTH 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 GRADED OR SAND GRAVEL. WHERE SOILS CLASSIFIED AS GROUP 1 ACCORDING TO THE UNITED SOIL CLASSIFICATION SYSTEM IN ACCORDANCE WITH TABLE 806(B) OF THE NRC, 2008 EDITION.
- PROPERLY DIMENSION DRAINAGE PRIOR TO POURING CONCRETE WHEN BOTTOM OF CONCRETE SLAB IS AT OR BELOW WATER TABLE. IF APPLICABLE, 3/4" - 2" DEEP CONTROL JOINTS ARE TO BE MADE WITHIN 4 TO 10 HOURS OF CONCRETE FINISHING AND WALL LOCATIONS HAVE BEEN MARKED. ADJUST WHERE NECESSARY.
- CONCRETE SHALL CONFORM TO SECTION 802(3) OF THE NRC, 2008 EDITION. CONCRETE REINFORCING STEEL TO BE ASTM A601 GRADE 60. WELDED WIRE FABRIC TO BE ASTM A601. MAXIMUM 4" 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 FINISH 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 6 BARS OR SMALLER, AND NOT LESS THAN 2" FOR 4 BARS OR LARGER.
- MASONRY UNITS TO CONFORM TO ACE SURFACE 8/15 ARE. PORTLAND SHALL CONFORM TO ASTM C150.
- THE UNFINISHED HEIGHT OF MASONRY PIERS SHALL NOT EXCEED FOUR FEET THEIR LEAST DIMENSION FOR UNFILLED HOLLOW CONCRETE MASONRY UNITS AND TEN FEET THEIR LEAST DIMENSION FOR SOLID OR SOLID FILLED PIERS. PIERS MAY BE FILLED SOLID WITH CONCRETE OR TYPE II OR 3 MORTAR. PIERS AND WALLS SHALL BE CAPPED WITH 1" OF SOLID MASONRY.
- THE CENTER OF EACH OF THE PIERS SHALL BEAR IN THE PROXIMATE THIRD OF ITS RESPECTIVE FOOTING. EACH GIRDER SHALL BEAR IN THE PROXIMATE THIRD OF THE PIERS.
- ALL CONCRETE AND MASONRY FOUNDATION WALLS ARE TO BE CONSTRUCTED IN ACCORDANCE WITH THE PROVISIONS OF SECTION 806(A) OF THE NRC, 2008 EDITION OR IN ACCORDANCE WITH ACI 308 ACI 309 NORTH TRUSS-A OR ACE SURFACE 8/15 ARE. MASONRY FOUNDATION WALLS ARE TO BE REINFORCED PER TABLE 806(B)(1) REINFORCEMENT OR TABLE 806(B) OF THE NRC, 2008 EDITION. CONCRETE FOUNDATION WALLS ARE TO BE REINFORCED PER TABLE 806(B)(2) OF THE NRC, 2008 EDITION. STEEL CONCRETE FOUNDATION WALLS TO 2 x 6 FRAMED WALLS AT 1/4" O.C. WARE GRACE PER 1711 (2).

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**FRAMING NOTES**

- ALL FRAMING LUMBER SHALL BE 6 SPF MINIMUM (P) - 475 PSI Fv - 375 PSI E - 1600000 PSI UNLESS NOTED OTHERWISE (END). ALL TREATED LUMBER SHALL BE 7 DYP MINIMUM (P) - 375 PSI Fv - 175 PSI E - 1600000 PSI UNLESS NOTED OTHERWISE (END).
- UNFINISHED VENEER LUMBER (U.V.L.) SHALL HAVE THE FOLLOWING MINIMUM PROPERTIES: Pn - 2600 PSI Fv - 265 PSI E - 1600000 PSI UNFINISHED STRAND LUMBER (U.S.L.) SHALL HAVE THE FOLLOWING MINIMUM PROPERTIES: Pn - 2305 PSI Fv - 308 PSI E - 1600000 PSI PARALLEL STRAND LUMBER (P.S.L.) UP TO 7" DEPTH SHALL HAVE THE FOLLOWING MINIMUM PROPERTIES: Pn - 2600 PSI Fv - 1600000 PSI PARALLEL STRAND LUMBER (P.S.L.) MORE THAN 7" DEPTH SHALL HAVE THE FOLLOWING MINIMUM PROPERTIES: Pn - 2600 PSI Fv - 1600000 PSI. INSTALL ALL CONNECTIONS PER MANUFACTURER'S SPECIFICATIONS.
- STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING ASTM SPECIFICATIONS:
  - A. 3" AND 4" 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 BOTH (END). PROVIDE SOLID BEARING FROM BEAM SUPPORT TO FOUNDATION. BEAMS SHALL BE ATTACHED AT THE BOTTOM FLANGE TO EACH SUPPORT AS FOLLOWS (END):
  - A. WOOD FRAMING: (1) 1/2" DIA. x 4" LONG LAG SCREWS
  - B. CONCRETE: (1) 1/2" DIA. x 4" EDGE ANCHORS
  - C. MASONRY (FULLY GROUTED): (1) 1/2" DIA. x 4" LONG SETBACK TIED TO ANCHORS

LATERAL SUPPORT IS CONSIDERED ADEQUATE PROVIDED THE JOISTS ARE TIE HALLED TO THE IN NA FOR ON TOP OF THE STEEL BEAM AND THE 3/4" HALLER IS SECURED TO THE TOP OF THE STEEL BEAM w/ (2) ROSS OF SELF TAPPING SCREWS 4" O.C. OR (2) ROSS OF 1/2" DIAMETER BOLTS 4" O.C. IF 1/2" BOLTS ARE USED TO FASTEN THE HALLER, THE STEEL BEAM SHALL BE FABRICATED w/ (1) ROSS OF 3/4" DIAMETER HOLES 4" O.C.

- SQUARE DENOTE POINT LOADS WHICH REQUIRE SOLID BLOCKING TO GIRDER OR FOUNDATION. RAISED SQUARES DENOTE POINT LOADS FROM ABOVE WHICH REQUIRE SOLID BLOCKING TO SUPPORTED MEMBER BELOW.
- ALL LOAD BEARING HEADERS TO CONFORM TO TABLE 806(B)(1) AND 806(B)(2) OF THE NRC, 2008 EDITION OR BE (1) 2 x 6 WITH (2) JACK AND (1) LONG STUD EACH END (WHICH 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 (END). INSTALL KING STUDS PER SECTION 806(B) OF THE NORTH CAROLINA RESIDENTIAL CODE, 2008 EDITION.
- ALL BEAMS, HEADERS, OR GIRDER TRUSSES PARALLEL TO WALL ARE TO BEAR FULLY ON (1) JACK OR (1) BRICK CHIMNEY OR THE NUMBER OF JACKS OR BRICK NOTED. ALL BEAMS OR GIRDER TRUSSES PERPENDICULAR TO WALL AND SUPPORTED BY (1) BRICK OR LESS ARE TO HAVE 1/2" MINIMUM BEARING (END). ALL BEAMS OR GIRDER TRUSSES PERPENDICULAR TO WALL AND SUPPORTED BY MORE THAN (1) BRICK OR OTHER NOTED COLUMN ARE TO BEAR FULLY ON SUPPORT COLUMN FOR ENTIRE WALL DEPTH (END). BEAM ENDS THAT DIRT INTO ONE ANOTHER ARE TO EACH BEAR EQUAL LENGTHS (END).

- TRUSS 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 (1" EDGE DISTANCE) WITH (2) BOLTS LOCATED AT 4" FROM EACH END (END).
- ALL 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 2008 EDITION WALL BRACING CRITERIA. THE AMOUNT, LENGTH, AND LOCATION OF BRACING SHALL COMPLY WITH ALL APPLICABLE TABLES IN SECTION 806(B).
- 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, USE A 6" x 6" x 5/8" STEEL ANGLE WITH 6" TYPICAL SPACING AT RIDGES FOR BRICK SUPPORT (END). FOR ALL HEADERS 8'-0" AND GREATER IN LENGTH, USE A 6" x 4" x 5/8" STEEL ANGLE TO HEADER WITH 1/2" LAG SCREWS AT 24" O.C. STAGGERED FOR BRICK SUPPORT. FOR ALL BRICK SUPPORT AT ROOF LINE, USE 1 1/2" x 4" x 5/8" STEEL ANGLE TO (1) 2" x 10" BLOCKING INSTALLED w/ (4) 3/4" NAILS EA. PLY BETWEEN WALL STUDS WITH (2) ROSS OF 1/2" LAG SCREWS AT 24" O.C. STAGGERED AND IN ACCORDANCE WITH SECTION 806(B)(1) OF THE NRC, 2008 EDITION.
- FOR STICK FRAMED ROOFS, CIRCLES DENOTE (3) 2 x 4 POINTS FOR ROOF MEMBER SUPPORT. HIF BRUGES ARE TO BE TRACED A MINIMUM OF 8'-0". FABRIC MEMBERS WITH THREE ROSS OF 3/4" NAILS AT 18" O.C. FRAME DORMER WALLS ON TOP OF DOUBLE OR TRIPLE RAFTERS AS SHOWN (END).
- FOR TRUSS 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 3 x 8 ROSS, 2 x 6 RAFTERS AT 18" O.C. AND PLAT 2 x 10 VALLEYS (END).
- ALL 4 x 4 AND 4 x 6 POSTS TO BE INSTALLED WITH 1000 LB CAPACITY UPLIFT CONNECTORS TOP AND BOTTOM (END). POSTS MAY BE SECURED USING ONE 5/8" DIA. OR 1/2" DIA. UPLIFT CONNECTOR FASTENED TO THE BAND AT THE BOTTOM AND THE BEAM AT THE TOP OF EACH POINT. ONE 8" SECTION OF 2" X 4" OR 2" X 6" BRACING WITH (1) 3/4" DIA. NAIL AT EACH END MAY BE USED IN LIEU OF EACH THAT STRAP IS DESIGNED. FOR MASONRY OR CONCRETE FOUNDATION USE ANCHOR POST BARS.

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

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120 MPH - 130 MPH ULTIMATE DESIGN WIND SPEED  
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NOTES

7/22/19