

EMBARK H&H HOMES - GARAGE RIGHT

PLAN REVISIONS

1-09-11	COMPLETED CONSTRUCTION DOCUMENTS INCLUDING CLIENT REVISION COMMENTS.
1-9-11	PROPOSED PLANS TO CREATE LEFT HAND GARAGE VERSION.
09-30-08	STANDARD CLIENT CHANGES PER CLIENT BULK-THRU NOTES DATED 09-30-08. CHANGES INCLUDE BUT NOT LIMITED TO THE FOLLOWING: REMOVE OPT. LAUNDRY TRIO, REMOVE KITCHEN ISLAND KNEESALL, CHANGE KITCHEN ISLAND COUNTER TOP TO HAVE 1" OVERHANGS, REMOVE OHC ABOVE INTRIXE, ADD FLUSHING DRAIN UNDER CABINET, REMOVE GARAGE SERVICE DOORS, REMOVE OPT. RAILING AT STAIRS, REVISE ALL SECONDARY CLOSETS AND LINENS TO HAVE 36" OLD DOORS, REVISE OPT. E-CENTER TO HAVE 8" DRAWER BANK EACH SIDE WITH 3" KNEE SPACE WITH 3 USED OUTLETS, REMOVE WINDOW GRIPS AT SIDES AND REAR ELEVATIONS, CHANGE ALL GARAGE DOORS TO 1/2 PANEL DOORS, REVISE DATA DRG'S 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-BUILD FLUORESCENT LIGHT. *PLAN SPECIFIC CHANGES INCLUDE BUT NOT LIMITED TO THE FOLLOWING: REMOVE OPT. DOOR AT OWNERS SUITE, REMOVE OPT. WINDOW AT BACK AND SIDE WALLS OF GATHERING ROOM, REMOVE OHC ABOVE REF. AND SIDE WALL. ELEVATION 'M' - REMOVE PICTURE FRAMING AT FRONT PORCH AND ADD PLASTER COLUMN, CHANGE HIP ROOF AT REAR OF HOUSE TO GABLE WITH FLUSH OVERHANG. ELEVATION 'B' - REMOVE DECORATIVE GABLE BRACKET AT TOP GABLE AND REPLACE WITH TYPICAL GABLE BRACKET, CHANGE HIP ROOF AT REAR OF HOUSE TO GABLE WITH FLUSH OVERHANG. ELEVATION 'C' - CHANGE HIP AT REAR OF HOUSE TO GABLE WITH FLUSH OVERHANG.

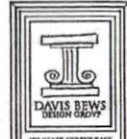
ISSUANCE OF PLANS FROM THIS DRAFTER'S OFFICE SHALL NOT RELIEVE THE BUILDING RESPONSIBILITY TO REVIEW AND VERIFY ALL NOTES, CONDITIONS, AND ADHERENCE TO APPLICABLE BUILDING CODES PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION.
 ANY CONSTRUCTION OF WORK IN VIOLATION OF ANY APPLICABLE BUILDING CODES SHALL BE BROUGHT TO THE ATTENTION OF THE DRAFTER'S OFFICE FOR CONNECTION 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 COPILED SHALL BE SUBJECT TO ADDITIONAL FEES.
 IF ANY REVISIONS ARE MADE TO THESE PLANS BY ANY OTHER PARTY OTHER THAN THE DRAFTER'S OFFICE, THE DRAFTER SHALL NOT BE HELD RESPONSIBLE.

In v. Marked

CSQ000082



PLAN NUMBER	2707.03
DATE FILED	11-26-11
OWNER	11-27-11
REVISED	11-27-11
	08-14-10



180 STATE STREET EAST
 CHELSEA, MASSACHUSETTS 02156
 TEL: 617-552-1100 FAX: 617-552-1101
 WWW.DAVISBEWSDESIGN.COM
 YOURS TO CONSIDER
 EST. 1983

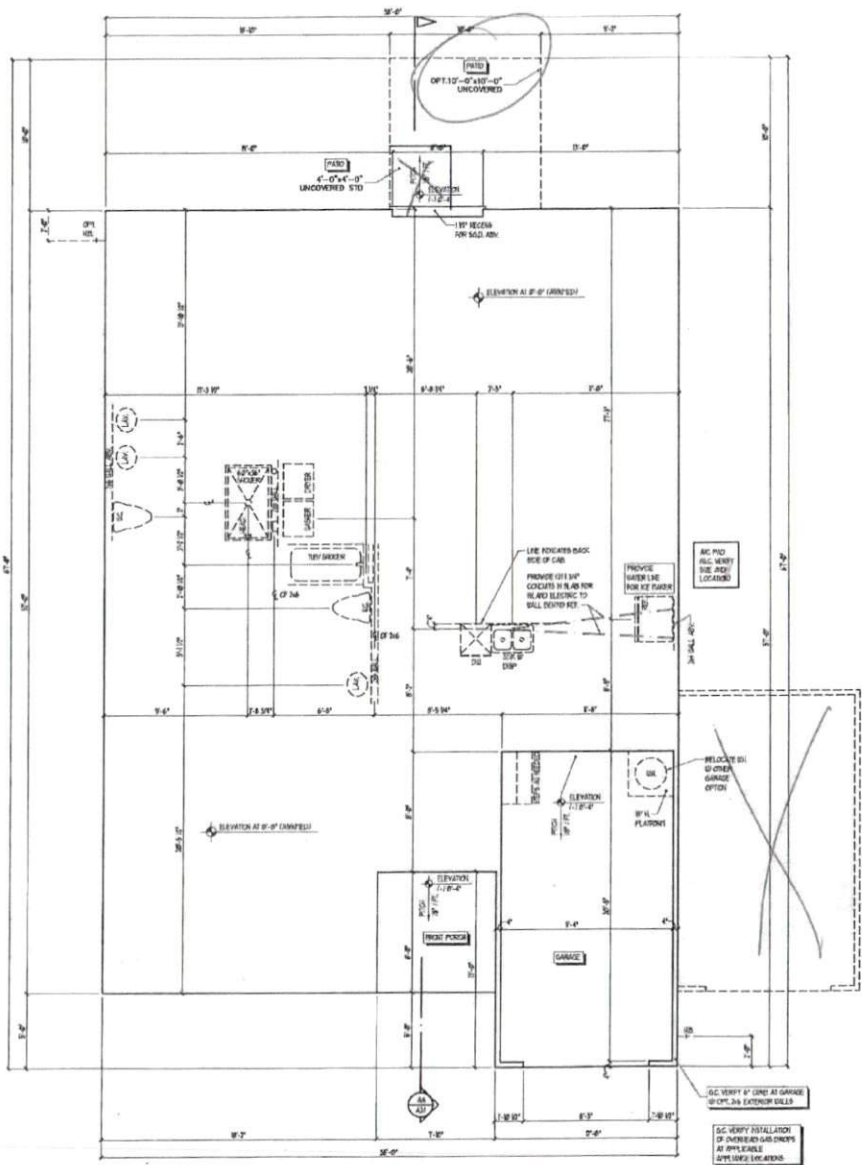
DRAWINGS ON 1/4" = 1' SHEET ARE ONE HALF THE SCALE NOTED

EMBARK
H&H HOMES

1724

SHEET
REVISION LOG

SHEET
CS



OWNER OF PLAN FROM THIS DRAWING'S OFFICE SHALL NOT RELY ON THE BUILDING OF RESPONSIBILITY TO REVIEW AND VERIFY ALL NOTES, CONDITIONS, AND ADHERENCE TO APPLICABLE BUILDING CODES FROM THE JURISDICTION OF ANY GOVERNMENT. ANY DISCREPANCY OF ERROR IN NOTES, CONDITIONS, OR ADHERENCE TO APPLICABLE BUILDING CODES SHALL BE BROUGHT TO THE ATTENTION OF THE DRAWING'S OFFICE FOR CORRECTION BEFORE COMMENCEMENT OF ANY CONSTRUCTION. ANY REVISIONS OR CORRECTIONS MUST BE MADE TO THE CONSTRUCTION OF DRAWINGS THAT ARE TACKLED AFTER THE FINAL PLANS HAVE BEEN COMPLETED SHALL BE SUBJECT TO ADDITIONAL FEES. IF ANY PROVISIONS ARE MADE TO THESE PLANS BY ANY OTHER PARTY OTHER THAN THE DRAWING'S OFFICE, THE DRAWING'S OFFICE SHALL NOT BE HELD RESPONSIBLE.



JOB NUMBER	DATE	DATE
1724	11-16-17	11-16-17
1724	11-16-17	11-16-17
1724	11-16-17	11-16-17

DAVIS BREW
DESIGN GROUP

3000 S. KENNEDY BLVD. SUITE 100
MARIETTA, GA 30067
770.426.1111
WWW.DAVISBREWDG.COM

DRAWINGS ON THIS SHEET ARE ONE HALF THE SCALE NOTED.

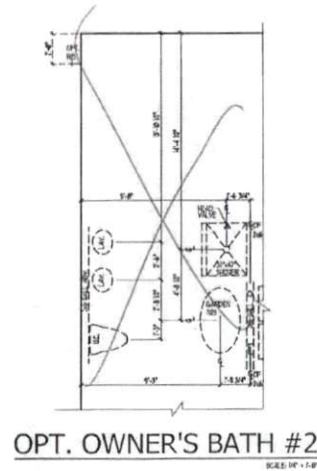
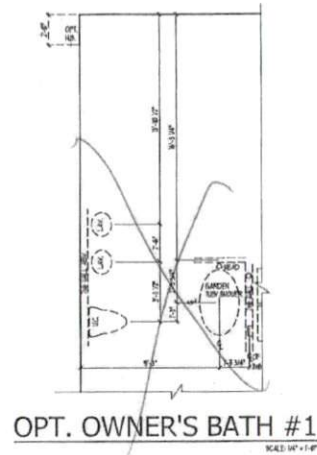
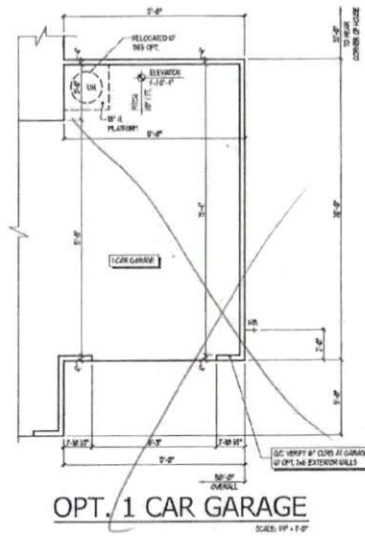
**EMBARK
H&H HOMES**

1724

SLAB INTERFACE PLAN

SHEET
A1.0

SLAB INTERFACE PLAN
GARAGE RIGHT



ISSUANCE OF PLANS FROM THIS DRAWING OFFICE SHALL NOT RELIEVE THE OWNER OF RESPONSIBILITY TO REVIEW AND VERIFY ALL NOTES, CONDITIONS, AND CONFORMANCE TO APPLICABLE BUILDING CODES PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION. ANY OCCURRENCE OF DAMAGE, DISTURBANCE, OR NON-CONFORMANCE 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 FEES. IF ANY SPECIFICATIONS ARE MADE TO THESE PLANS BY ANY GOVERNMENT AGENCY OTHER THAN THE DRAWING OFFICE, THE DRAWING OFFICE SHALL NOT BE HELD RESPONSIBLE.

REFER TO SUBDIVISION OR NON-EMERGENCY 311

SLAB INTERFACE AT PLAN OPTIONS

GARAGE RIGHT



JOB NUMBER	27162-03
DATE OF ISSUE	11-26-17
REVISION	11-27-17
DATE	11-27-17



500 AVENUE STREET EAST
GENERAL BUILDING UNIT
100 - 1000 - 1000 PAV
WWW.DAVISDEWES.COM
YAKES, J. ENGINEER
EST. 1981

DRAWN ON 11/27/17
CHECKED ON 11/27/17
THE SCALE NOTED

EMBARK
H&H HOMES

1724

SLAB INTERFACE PLAN AT PLAN OPTIONS

SHEET
A1.1



JOB NUMBER	27187-03
DWG FILE NAME	27187-03
SCALE	1/8" = 1'-0"
REVISED	11-17-17
DATE	11-17-17

DAVIS BEWIS DESIGN GROUP

I DO NOT WARRANT THAT
 I AM AN ARCHITECT. MY
 WORK SHALL BE DONE
 IN ACCORDANCE WITH
 THE PROFESSIONAL
 STANDARDS OF THE
 ARCHITECTS AND
 ENGINEERS BOARD
 OF CALIFORNIA.

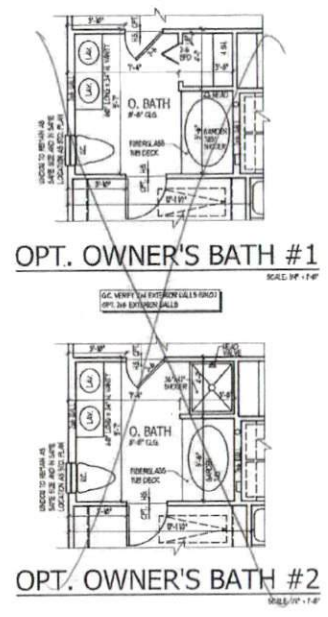
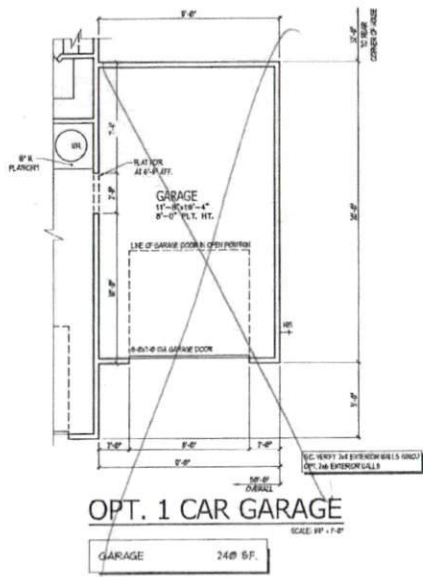
DIMENSIONS ON EXIT
 SHEET ARE ONE HALF
 THE SCALE NOTED

EMBARK
 H&H HOMES

1724

SHEET
 PLAN OPTIONS

SHEET
 A2.1



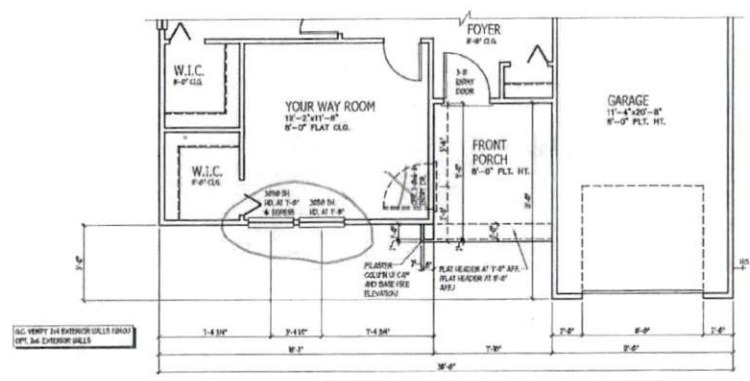
ISSUANCE OF PLAN SET BY THIS DRAFTSMAN'S OFFICE SHALL NOT RELIEVE THE DESIGNER OF
 RESPONSIBILITY TO REVIEW AND VERIFY ALL NOTES, CONDITIONS, AND AGREEMENTS TO APPLICABLE
 REGULATORY CODES PRIOR TO CONSTRUCTION OF ANY CONSTRUCTION.
 ANY DISCREPANCY OF DIMENSIONS IN NOTES, SPECIFICATIONS OR AGREEMENTS TO APPLICABLE REGULATORY
 CODES SHALL BE BRINGS TO THE ATTENTION OF THE DRAFTSMAN'S OFFICE FOR CORRECTION BEFORE
 CONSTRUCTION OF ANY CONSTRUCTION.
 ANY REVISIONS OR CHANGES, NOT RELATED TO THE CORRECTION OF ERRORS THAT ARE MADE
 AFTER THE THIS PLAN SET HAS BEEN COMPLETED SHALL BE SUBJECT TO ADDITIONAL FEES.
 IF ANY DISCREPANCIES ARE MADE TO THESE PLANS BY ANY OTHER PARTY OTHER THAN THE
 DRAFTSMAN'S OFFICE, THE DRAFTSMAN SHALL NOT BE HELD RESPONSIBLE.

PLAN OPTIONS
 GARAGE RIGHT

VERIFY RELOCATION
 OF OPENING AND OTHERS
 AT APPLICABLE
 APPLICABLE LOCATIONS

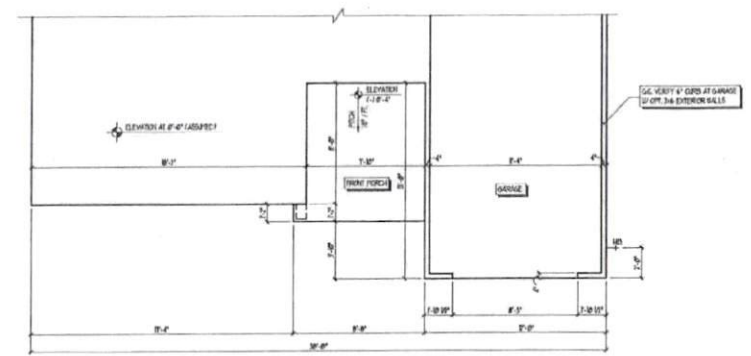
REFER TO STANDARD PLAN
 FOR DIMENSIONS AND NOTES

DESIGNER OF PLANS FROM THE DRAWING OFFICE SHALL NOT BE HELD RESPONSIBLE FOR THE ACCURACY OF THE INFORMATION PROVIDED HEREON. THE DESIGNER'S OFFICE SHALL NOT BE HELD RESPONSIBLE FOR THE ACCURACY OF THE INFORMATION PROVIDED HEREON. THE DESIGNER'S OFFICE SHALL NOT BE HELD RESPONSIBLE FOR THE ACCURACY OF THE INFORMATION PROVIDED HEREON.

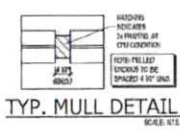


MAIN FLOOR PLAN
SCALE: 1/4" = 1'-0"

FRONT PORCH 73 SF.



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



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

REFER TO SLABING PLAN FOR INFORMATION NOT SHOWN

PARTIAL PLANS AT ELEVATION "B"
GARAGE RIGHT



JOB NUMBER	27827.01
DATE FOR ISSUE	EMPHASE-01
ISSUED	11-06-17
REVISED	11-17-17



DO NOT SCALE DRAWINGS. VERIFY ALL DIMENSIONS FROM THE ORIGINAL DRAWING. VERIFY ALL DIMENSIONS FROM THE ORIGINAL DRAWING. VERIFY ALL DIMENSIONS FROM THE ORIGINAL DRAWING.

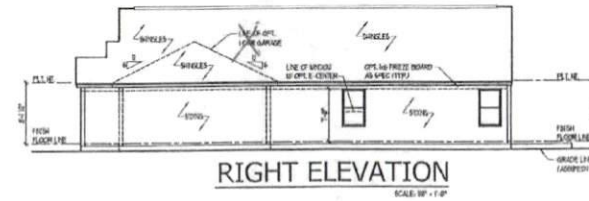
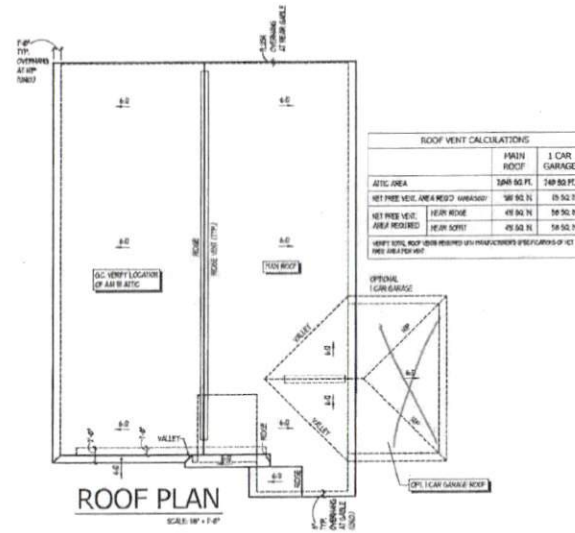
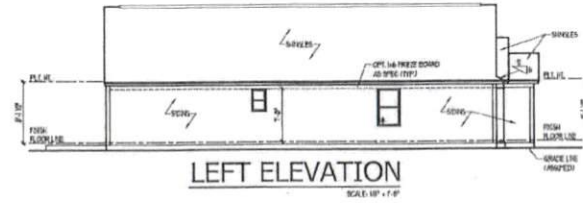
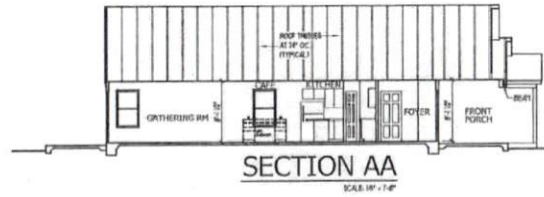
EMBARC H&H HOMES

1724

TITLE
PARTIAL PLANS AT ELEVATION "B"

SHEET
A2.2

OWNER OF PLAN FROM THIS CONTRACTOR'S OFFICE SHALL NOT RELY ON THE BUILDER'S RESPONSIBILITY TO REVIEW AND VERIFY ALL UTILITY CONDITIONS, AND ADHERENCE TO APPLICABLE BUILDING CODES FROM THE JURISDICTION OF ANY CONTRACTOR. ANY DISCREPANCY OF WORK IN NOTES, DIMENSIONS, OR ADHERENCE TO APPLICABLE BUILDING CODES SHALL BE BROUGHT TO THE ATTENTION OF THE CONTRACTOR'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 PLAN HAVE BEEN COVERED SHALL BE SUBJECT TO ADDITIONAL FEES. IF ANY MODIFICATIONS ARE MADE TO THESE PLANS BY ANY OTHER PARTY OTHER THAN THE CONTRACTOR'S OFFICE, THE CONTRACTOR SHALL NOT BE HELD RESPONSIBLE.



ELEVATION "B" - FARMHOUSE GARAGE RIGHT



JOB NUMBER	27167-03
CAD FILE NAME	27167-03
DATE	11-26-17
REVISION	11-27-17
DATE	08-21-18



NO STATEMENT MADE CONCERNING PLANNING, DESIGN, OR CONSTRUCTION OF THIS PROJECT. THE DESIGNER'S RESPONSIBILITY IS LIMITED TO THE DESIGN AND CONSTRUCTION OF THE PROJECT AS SHOWN ON THESE PLANS. THE SCALE NOTED.

EMBARC H&H HOMES

1724

SEE SIDE AND REAR ELEVATIONS ROOF PLAN FINISH SECTION

A4.1



JOB NUMBER	37197.03
DATE PLAN MADE	12-26-77
DESIGNED BY	12-19-77
CHECKED BY	02-12-78



NO OTHER EIGHT EASY
DIMENSIONS ON THIS
SHEET ARE ONE HALF
THE SCALE NOTED

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1724

ELECTRIC AT PLAN OPTION

SHEET
E2

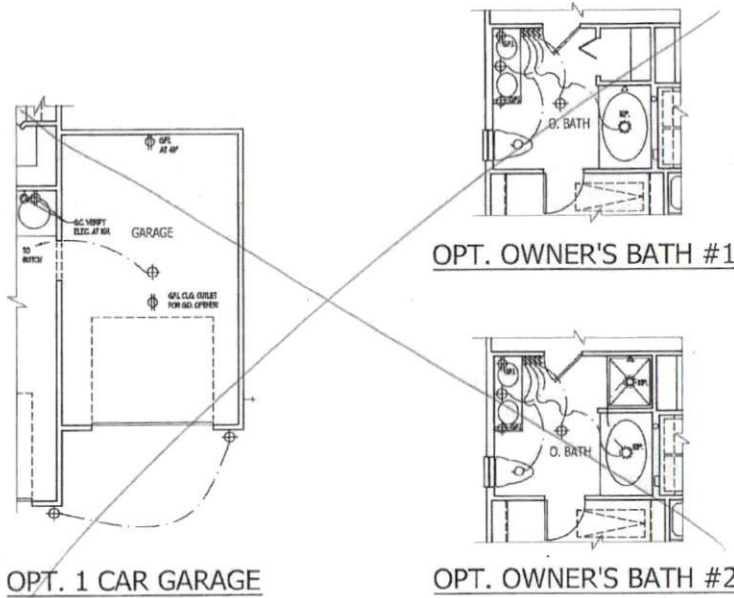
ELECTRICAL KEY

- ⊖ DUPLEX COMMERCE OUTLET
- ⊖ DUPLEX OUTLET ABOVE COUNTER
- ⊖ LEANBACK DUPLEX OUTLET
- ⊖ OVERHEAD FAN RECEPTOR DUPLEX OUTLET
- ⊖ HALF-RECESSED DUPLEX OUTLET
- ⊖ SPECIAL PURPOSE OUTLET
- ⊖ DUPLEX OUTLET W/COVER
- ⊖ 250 VOLT OUTLET
- ⊖ WALL SWITCH
- ⊖ 3-WAY SWITCH
- ⊖ 4-WAY SWITCH
- ⊖ DIMMER SWITCH
- ⊖ CEILING MOUNTED INCANDESCENT LIGHT FIXTURE
- ⊖ WALL MOUNTED INCANDESCENT LIGHT FIXTURE
- ⊖ RECESSED INCANDESCENT LIGHT FIXTURE
- ⊖ LIGHT FIXTURE WITH FULL COVER
- ⊖ TRACK LIGHT
- ⊖ FLUORESCENT LIGHT FIXTURE
- ⊖ EXHAUST FAN
- ⊖ EXHAUST FAN/HEAT EXCHANGER
- ⊖ ELECTRIC DOOR OPERATOR (OPTIONAL)
- ⊖ CIRCLES (OPTIONAL)
- ⊖ FAN MOTOR SWITCH (OPTIONAL)
- ⊖ CARBON MONOXIDE DETECTOR
- ⊖ WIRE DETECTOR
- ⊖ WIRE / CARBON MONOXIDE DETECTOR
- ⊖ TELEPHONE (OPTIONAL)
- ⊖ TELEVISION (OPTIONAL)
- ⊖ THERMOSTAT
- ⊖ ELECTRIC FETTER
- ⊖ ELECTRIC PANEL
- ⊖ DISCONNECT SWITCH
- ⊖ SPEAKER (OPTIONAL)
- ⊖ ROUGH-IN FOR OPT. CEILING FAN
- ⊖ ROUGH-IN FOR OPT. CEILING FAN

NOTES:

1. PROVIDE AND INSTALL BRACKET FULL LENGTH DIMENSION (IF U) AS INDICATED ON PLANS OR AS NOTED IN A LOCAL ELEC. CODE.
2. ALL DIMENSIONS INDICATED, SWITCHES AND RECEPTACLES AT THE FOLLOWING HEIGHTS ABOVE FINISHED FLOOR: SWITCHES - 48" CIRCLES - 48" TELEPHONE - 48" (IF CALLED ADV. COMMERCIAL) TELEVISION - 48"
3. ALL WIRE DETECTORS SHALL BE INSTALLED INTO AN ELECTRICAL POSEID SOURCE AND SHALL BE SUPPORTED WITH A PROVIDED SUPPORT BRACKET. PROVIDE AND INSTALL LOCALLY CERTIFIED EXCEL DETECTORS.
4. ALL BA AND SMA RECEPTACLES IN SLEEPING ROOMS SHALL BE PROTECTED BY GFCI. ALL BA AND SMA RECEPTACLES IN BATHS, KITCHENS, RECREATION ROOMS, GYMNASIUMS, AND POOL AREAS SHALL BE PROTECTED BY GFCI. ALL BA AND SMA RECEPTACLES IN GARAGES AND UTILITY ROOMS SHALL BE GFCI PROTECTED (GFI).
5. IF IN THE RESPONSIBILITY OF THE LICENSED ELECTRICIAN TO INSURE THAT ALL ELECTRICAL WORK IS IN FULL COMPLIANCE WITH THE LOCAL ELEC. CODES - THE ELEC. CODES AND ALL APPLICABLE LOCAL, STATE AND FEDERAL CODES AND ORDINANCES.
6. EVERY BUILDING HAVING A FURNACE, BOILER, HEATING SYSTEM OR APPLIANCE, REPLACE OR AT ATTACHED GARAGE SHALL HAVE AN OPERATIONAL CARBON MONOXIDE DETECTOR INSTALLED WITHIN 10 FEET OF EACH ROOM USED FOR SLEEPING PURPOSES.
7. ALL WIRING SHALL BE DONE IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE (NEC) AND ALL APPLICABLE LOCAL, STATE AND FEDERAL CODES AND ORDINANCES. ALL WIRING SHALL BE LISTED OR LABELED BY A NATIONALLY RECOGNIZED TESTING LABORATORY.

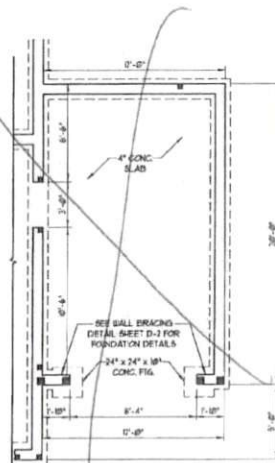
REVISIONS OF PLANS FROM THE DRAWING OFFICE SHALL NOT PREVENT THE LICENSED ELECTRICIAN FROM THE RESPONSIBILITY TO REVIEW AND VERIFY ALL WORK, CONDITIONS, AND ADHERENCE TO APPLICABLE BUILDING CODES PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION. ANY DISCREPANCY OF ERROR IN NOTICES, ORDINANCES, OR ADHERENCE TO APPLICABLE BUILDING CODES SHALL BE REPORTED 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 PLANS HAVE BEEN COMPLETED SHALL BE SUBJECT TO ADDITIONAL FEES. IF ANY REVISIONS OR CHANGES ARE MADE TO THESE PLANS BY ANY OTHER PARTY OTHER THAN THE DRAWING OFFICE, THE DRAWING OFFICE SHALL NOT BE HELD RESPONSIBLE.



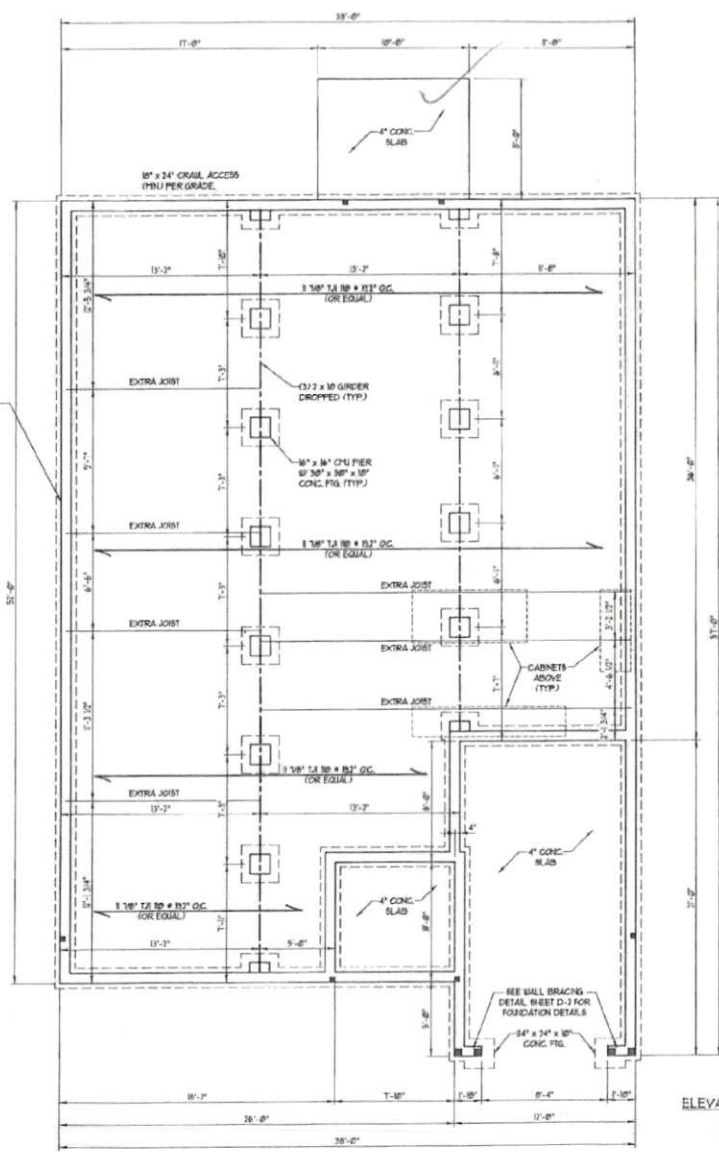
ELECTRIC AT
PLAN OPTIONS
GARAGE RIGHT



8" FOL ON 8" SIDES BY 8" DEEP CONC. CONC. FIG. (TYP.) OR FOR "HIGH WIND ZONES" 8" FOL ON 24" SIDES BY 8" DEEP CONC. CONC. FIG. REINFORCED W/ THREE 14 REBAR FOR 100-# BARS AT 3" ABOVE THE BOTTOM OF THE FIG. SPICES MUST BE OVERLAPPED 36" MIN. (TYP.)



OPTIONAL 1 CAR GARAGE



ELEVATION A

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

- STRUCTURAL NOTES:**
- ALL FRAMING LUMBER TO BE #2 SYP (SND). ALL TREATED LUMBER TO BE #2 SYP (SND).
 - INSTALL AN EXTRA OR DOUBLE JOIST UNDER WALLS PARALLEL TO FLOOR JOISTS WHERE NOTED ON THE PLAN.
 - SQUARES DENOTE POINT LOADS WHICH REQUIRE SOLID BLOCKING TO GIRDERS OR FOUNDATION.
 - SHAVED PINS TO BE FILLED SOLID.
 - INSTALL LAGGER USE # 6" OC TO SECURE WALL PILES TO THE FOUNDATION WALLS TOGETHER.
 - REFER TO NOTES AND DETAIL SHEETS FOR ADDITIONAL STRUCTURAL INFORMATION.

- BE TYPICAL ULTIMATE DESIGN WIND SPEEDS FOR LESS THAN 30% REAR WIND EXPOSURE.**
- ENGINEER'S SEAL APPLIES ONLY TO STRUCTURAL COMPONENTS. ENGINEER SEAL DOES NOT CERTIFY OPERATIONAL ACCURACY OR ARCHITECTURAL LAYOUT INCLUDING ROOF SYSTEM.
 - STRUCTURAL DESIGN PER NORTH CAROLINA REVISIONAL CODE, 2015 EDITION WITH SPECIAL CONSIDERATION TO CHAPTER 14 FLOOR AND JOIST FOR THE FLOORING.
 - DESIGNER IS TO PROVIDE FRAMING CONNECTIONS AS REQUIRED BY CHAPTER 16 FLOOR AND JOIST FOR THE FLOORING AND THE NORTH CAROLINA REVISIONAL CODE, 2015 EDITION.
 - FOUNDATION ALLOWANCE TO COMPLY WITH SECTION 1404 OF THE NORTH CAROLINA REVISIONAL CODE, 2015 EDITION.
 - FLAT ROOF HEIGHT IS LESS THAN 20 FEET. WALL CLADDING DESIGN FOR 40-# PSF AND 10 PSF (+/-) NEGATIVE PRESSURE (TYP).
 - ROOF CLADDING DESIGN FOR 40-# PSF AND 10 PSF FOR ROOF PITCHES 10 TO 20 DEG AND 10 PSF AND 10 PSF FOR ROOF PITCHES 20 TO 30 DEG.
 - 100% WIND BRACING IS REQUIRED ON ALL EXTERIOR WALLS.
 - WALLS TO BE BRACED IN ACCORDANCE WITH SECTION 1404 OF THE NORTH CAROLINA REVISIONAL CODE, 2015 EDITION AND AS NOTED ON PLAN.
 - MINIMUM EFFICIENCY COMPLIANCE AND RELATION VALUES OF THE BUILDING TO BE IN ACCORDANCE WITH CHAPTER 14 OF THE NCRC, 2015 EDITION.

- BE TYPICAL ULTIMATE DESIGN WIND SPEEDS FOR LESS THAN 30% REAR WIND EXPOSURE.**
- ENGINEER'S SEAL APPLIES ONLY TO STRUCTURAL COMPONENTS. ENGINEER SEAL DOES NOT CERTIFY OPERATIONAL ACCURACY OR ARCHITECTURAL LAYOUT INCLUDING ROOF SYSTEM.
 - STRUCTURAL DESIGN PER NORTH CAROLINA REVISIONAL CODE, 2015 EDITION.
 - WALLS TO BE BRACED IN ACCORDANCE WITH SECTION 1404 OF THE NORTH CAROLINA REVISIONAL CODE, 2015 EDITION AND AS NOTED ON PLAN.
 - MINIMUM EFFICIENCY COMPLIANCE AND RELATION VALUES OF THE BUILDING TO BE IN ACCORDANCE WITH CHAPTER 14 OF THE NCRC, 2015 EDITION.
 - REFER TO NOTES AND DETAIL SHEETS FOR ADDITIONAL STRUCTURAL INFORMATION.

J.S. THOMPSON
ENGINEERING INC.
REGISTERED PROFESSIONAL ENGINEER
NO. 10764
N.C. LICENSE NO. 1171

EMBARK - GARAGE RIGHT
H & H HOMES

DATE: 03/07/2019
TIME: 10:47:47
PROJECT: H & H HOMES/EMBARK
DRAWN BY: WJ

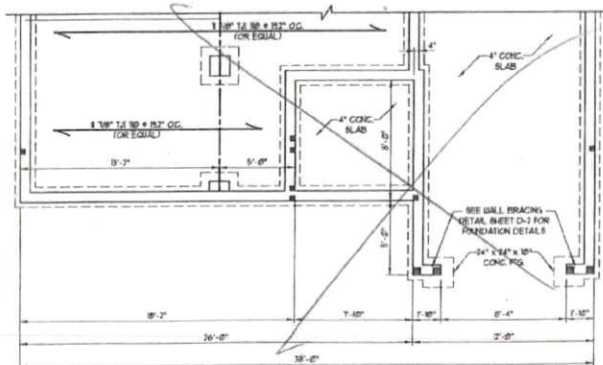
100% 1 of 10
S-1.1a
CRAWL
FOUNDATION PLAN

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

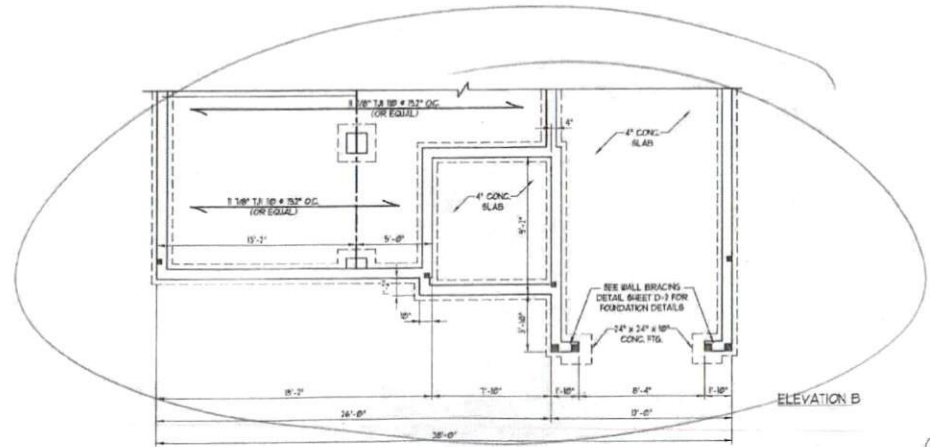
J.S. THOMPSON
ENGINEERING
INC.
AND SURVEYING
INC.
PHONE: 910.779.9111 FAX: 910.779.9112
REG. LICENSE NO. 51911

Matthew G. Strother
NORTH CAROLINA
PROFESSIONAL
SEAL
33736
ENGINEER
MATTHEW G. STROTHER
3/7/19

EMBARK - GARAGE RIGHT
H & H HOMES



ELEVATION C



ELEVATION B

DATE: 04.11.2019
SCALE: 1/4" = 1'-0"
DRAWN BY: MATTHEW STROTHER
CHECKED BY: J.S. THOMPSON

REV. 2 OF 10
S-1.1b
CRAW
FOUNDATION PLAN



SCALE NOTE:
LARGE FORMAT PRINTS ARE TO SCALE AS NOTED.
IF 1/2" PRINTS ARE ONE HALF THE NOTED SCALE

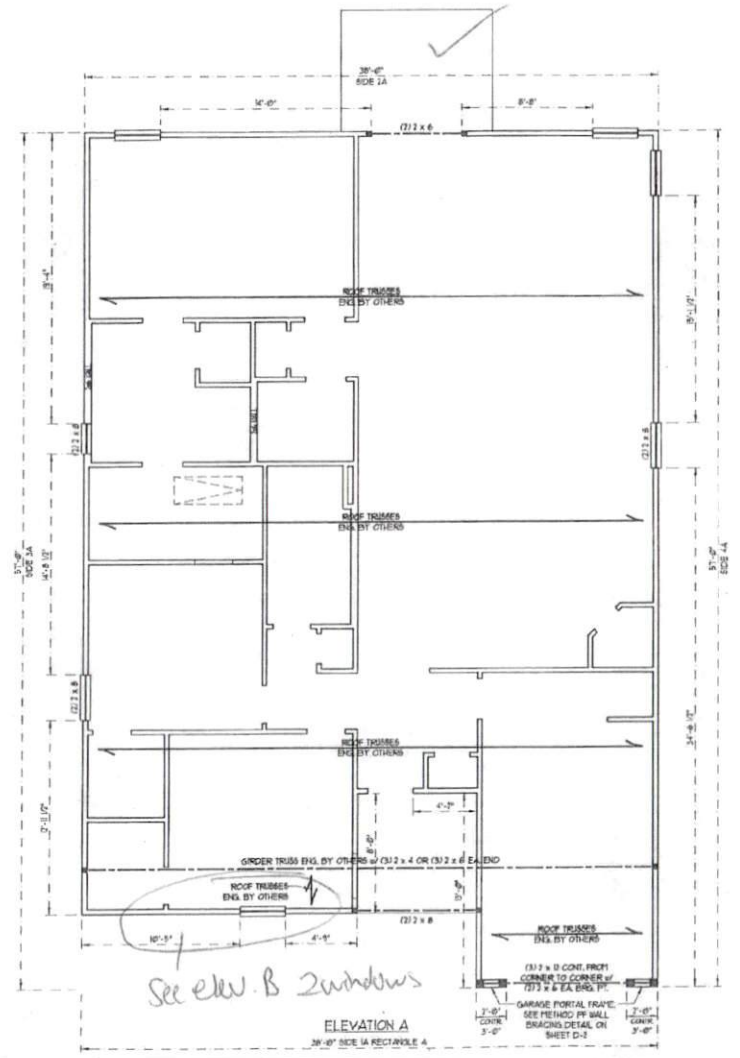
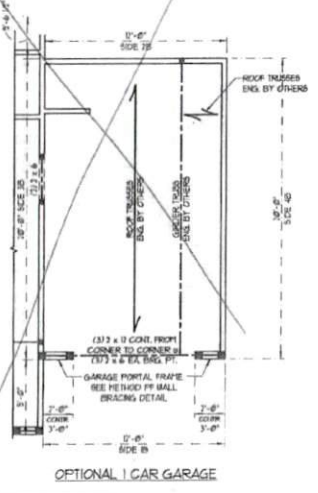
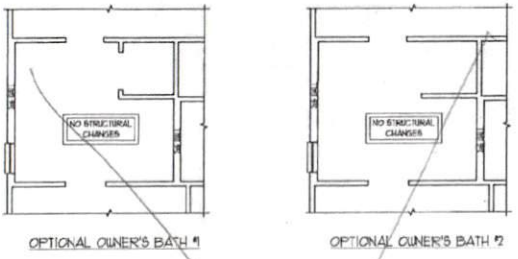
HEADER SPAN (FEET)	MINIMUM END SPACING (INCHES) PER TABLE HEIGHTS	
	6"	12"
UP TO 3'	1	1
4'	2	1
5'	3	2
6'	5	3
7'	6	4

- STRUCTURAL NOTES:**
- ALL FRAMING LUMBER TO BE SFF # 2 (GDI). ALL TREATED LUMBER TO BE SFF # 9 (GDI).
 - ALL LOAD BEARING HEADERS TO BE (2) 2" x 6" (GDI). WINDOW AND DOOR HEADERS TO BE SUPPORTED BY (2) JACK STUDS AND (1) KING STUD EA END (GDI) SEE TABLE HEIGHTS FOR ADDITIONAL KING STUD REQUIREMENTS.
 - FOR HIGH END ZONES, ALL EXTERIOR WALLS TO BE SHEATHED WITH 1/2" OSB SHEATHING WITH JOINTS BLOCKED AND SECURED WITH 8d NAILS AT 3' OC ALONG EDGES AND 6" OC IN THE FIELD.
 - FOR HIGH END ZONES, SECURE ALL EXTERIOR WALL SHEATHING PANELS TO DOUBLE TOP PLATES, BANDS, JOISTS, AND GIRDERS WITH (2) ROWS OF 8d NAILS STAGGERED AT 3' OC. PANELS SHALL EXTEND 1" BEYOND CONSTRUCTION JOINTS AND SHALL OVERLAP GIRDERS AND DOUBLE END PLATES THEIR FULL DEPTH. ALL 4 x 4 POSTS SHALL BE ANCHORED TO SLABS w/ BRIMSON ABU44 POST BARS (OR EQUAL) AND 6 x 6 POSTS w/ ABU44 POST BARS (OR EQUAL) (GDI). ALL 4 x 4 AND 6 x 6 POSTS TO BE INSTALLED WITH 100 LB CAPACITY UPLIFT CONNECTORS AT TOP (GDI).
 - FOR FREELoad, ALUMINUM OR COLUPH END BY OTHERS. REQUIRE TO HANG w/ (2) PIVOT ANGLE BRK 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 903.02 OF THE IBC 2018 EDITION.
 - CS-BWP REFERS TO "CONTINUOUS SHEATHING - WOOD STRUCTURAL PANELS" CONSTRUCTION IS TO INSTALL 1/2" OSB ON ALL EXTERIOR WALLS ATTACHED w/ 8d NAILS SPACED 6" OC ALONG PANEL EDGES AND 12" OC IN THE FIELD.
 - GB REFERS TO "GYPSUM BOARD" CONSTRUCTION IS TO INSTALL 1/2" (5/8" GYPSUM BOARD) SHEATHING NOTED ON THE PLANS FASTENED WITH 1 1/4" SCREWS OR 1 1/8" NAILS SPACED 7" OC ALONG PANEL EDGES AND IN THE FIELD. FOLLOW THE TOP AND BOTTOM PLATES.
 - BRACED WALL DESIGN APPLIED IN HIGH ZONES UP TO DR PPHL FOR HIGH END ZONES BRACE WALLS ARE TO BE CONSTRUCTED IN ACCORDANCE WITH CHAPTER 45 OF THE IBC 2018 EDITION.
 - SEE NOTES AND DETAIL SHEETS FOR ADDITIONAL BRACED WALL INFORMATION.

BRACED WALL DESIGN

RECTANGLE A	RECTANGLE B
SIDE 1A PERIOD: CS-BWP TOTAL REQUIRED LENGTH 15.87' TOTAL PROVIDED LENGTH 15.87' SIDE 2A PERIOD: CS-BWP TOTAL REQUIRED LENGTH 12.36' TOTAL PROVIDED LENGTH 12.36' SIDE 3A PERIOD: CS-BWP TOTAL REQUIRED LENGTH 8.74' TOTAL PROVIDED LENGTH 8.69' SIDE 4A PERIOD: CS-BWP TOTAL REQUIRED LENGTH 8.14' TOTAL PROVIDED LENGTH 8.14'	SIDE 1B PERIOD: PF TOTAL REQUIRED LENGTH 4.00' TOTAL PROVIDED LENGTH 4.00' SIDE 2B PERIOD: CS-BWP TOTAL REQUIRED LENGTH 4.00' TOTAL PROVIDED LENGTH 4.00' SIDE 3B PERIOD: CS-BWP TOTAL REQUIRED LENGTH 3.00' TOTAL PROVIDED LENGTH 3.00' SIDE 4B PERIOD: CS-BWP TOTAL REQUIRED LENGTH 3.36' TOTAL PROVIDED LENGTH 3.36'



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

J.S. THOMPSON ENGINEERING, INC.
REGISTERED PROFESSIONAL ENGINEER
NO. 10000
N.C. LICENSE NO. 10000

EMBARK - GARAGE RIGHT
H & H HOMES

DATE: 03/07/19
SCALE: 1/4" = 1'-0"
PROJECT NO: EMBARK-STR-19-001
DESIGNED BY: WBF

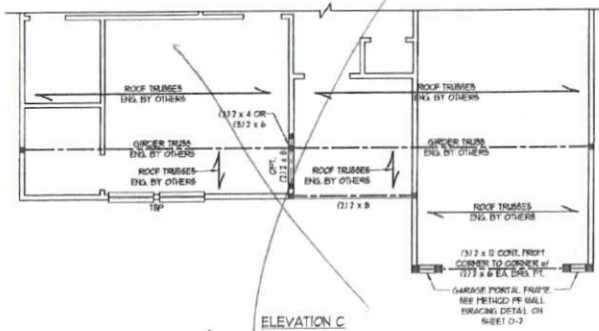
SHEET 7 OF 10
S-2a
ATTIC FLOOR FRAMING PLAN

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

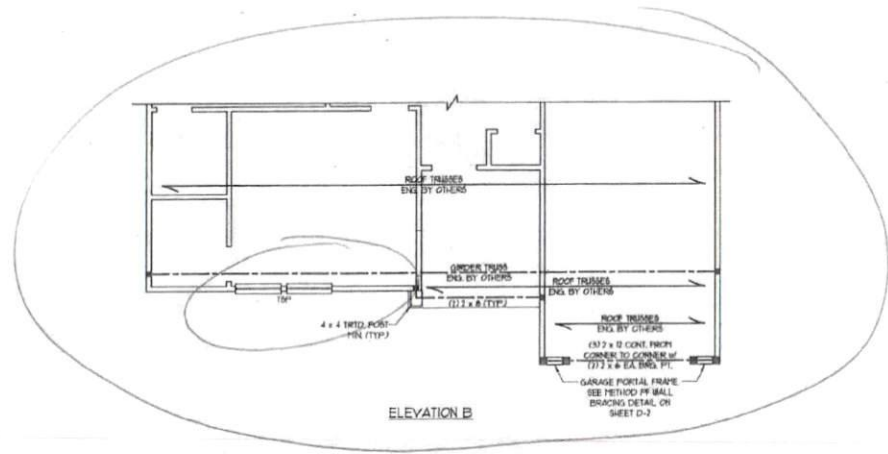
**J.S. THOMPSON
ENGINEERING INC.**
ONE MAIN AVENUE, SUITE 104, SALEM, NC 27158
PHONE: 919.279.8100 FAX: 919.279.8101
N.C. LICENSE #A010711



EMBARK - GARAGE RIGHT
H & H HOMES



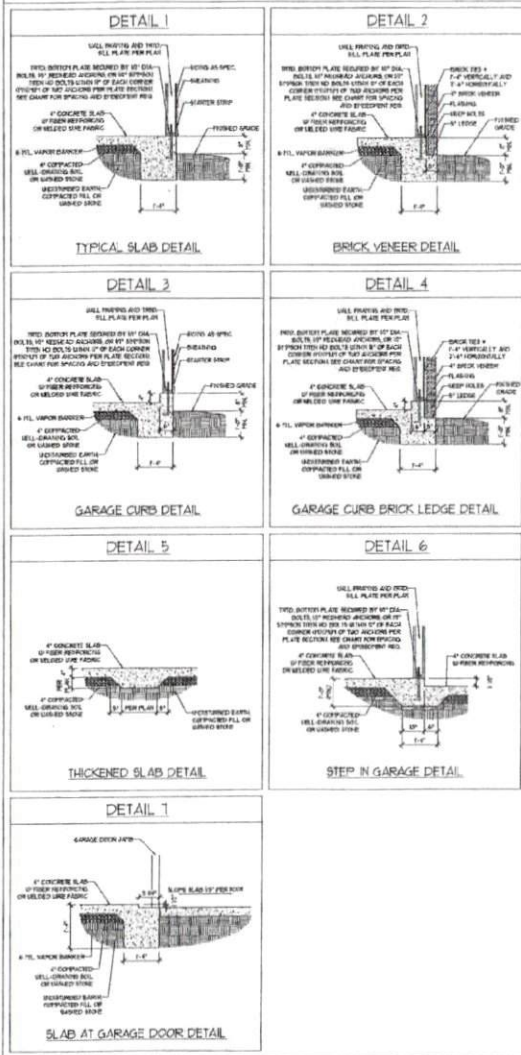
ELEVATION C



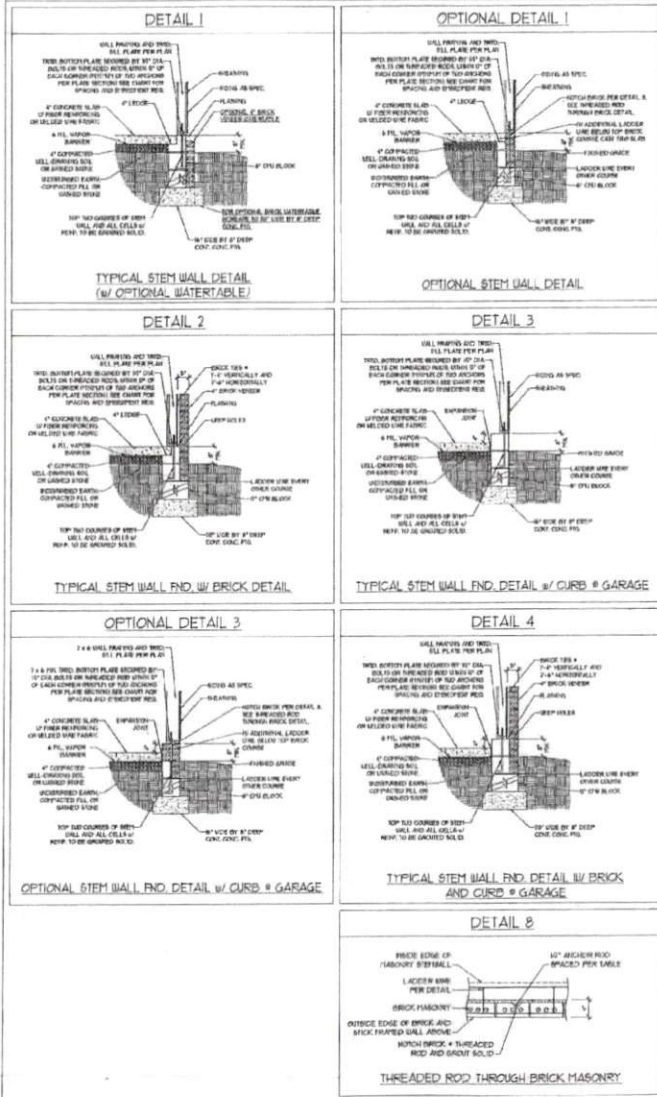
ELEVATION B

DATE PLOTTED: 3/11/2019
USER: JTF
PLANNER: JTF
PROJECT: H&H
SHEET: 8 OF 10
S-2b
ATTIC FLOOR FRAMING PLAN

MONOLITHIC SLAB DETAILS



STEM WALL DETAILS



MASONRY STEM WALL SPECIFICATIONS

WALL HEIGHT (FEET)	MASONRY WALL TYPE			
	8" CMU	4" BRICK AND 4" CMU	4" BRICK AND 8" CMU	8" CMU
3 AND BELOW	UNGRADED	GRADE SOLID	UNGRADED	UNGRADED
3	UNGRADED	GRADE SOLID	UNGRADED	UNGRADED
4	GRADE SOLID	GRADE SOLID w/ 4" REBAR # 8' OC	GRADE SOLID	GRADE SOLID w/ 4" REBAR # 8' OC
5	GRADE SOLID w/ 4" REBAR # 8' OC	NOT APPLICABLE	GRADE SOLID w/ 4" REBAR # 8' OC	GRADE SOLID w/ 4" REBAR # 8' OC
6	GRADE SOLID w/ 4" REBAR # 8' OC	NOT APPLICABLE	GRADE SOLID w/ 4" REBAR # 8' OC	GRADE SOLID w/ 4" REBAR # 8' OC
7 AND GREATER	ENGINEER DESIGN BASED ON SITE CONDITIONS			

STRUCTURAL NOTES:

- WALL HEIGHT MEASURED FROM TOP OF FOOTING TO TOP OF THE WALL.
- THE MULTIPLE TYPES TOGETHER WITH LACER USE 4" @ 16" OC VERTICALLY.
- CHASES APPLICABLE FOR ABOVE FOUNDATION ONLY, CONSULT ENGINEER FOR DESIGN OF GARAGE FOUNDATION FOR CHASES TO HOLD.
- BACKFILL OF CLEAR W/ 1/2" RAGGED STONE IS ALLOWABLE.
- BACKFILL OF WELLS CHANGED DIRECTION - CHANNEL FORMING SOLID 8" IN POINTS BELOW GRADE IS ALLOWED AS GROUP 1 ACCORDING TO SAVED FOR CLASSIFICATION SYSTEM IN ACCORDANCE WITH TABLE 2003 OF THE NEW INTERNATIONAL RESIDENTIAL CODE AND ALLOWABLE.
- FINISH SLAB PER (S101) AND (S102) PART OF THE NEW INTERNATIONAL RESIDENTIAL CODE. FINISH 1/4" LAP OF E.C. LEVEL.
- LOCATE REBAR IN CENTER OF FOUNDATION WALL.
- REBAR REQUIRED FULL BLOCK SOLID WITH TYPE "Y" PENETRATOR OR 30MB PSI GRADE ONE OF "L" OR "R" (S101) FINISH REBAR WITH FULL BLOCK WITH GROUT AT HEIGHTS OF 5' AND GREATER.

ANCHOR SPACING AND EMBEDMENT

WIND ZONE	50 MPH	100 MPH
SPACING	8" @ OC	4" @ OC
EMBEDMENT	7"	10" MIN MASONRY 1" MIN CONCRETE



3/7/19

J.S. THOMPSON ENGINEERING, INC.
 100 W. WALKER AVE., SUITE 100, RALEIGH, NC 27601
 TEL: 919.876.1000 FAX: 919.876.1001

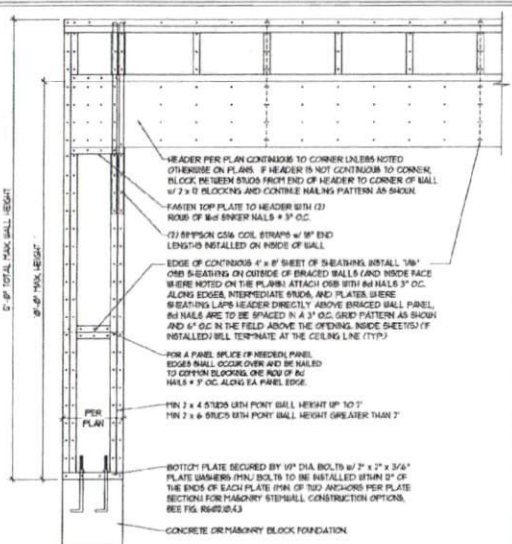
120 MPH - 150 MPH ULTIMATE DESIGN WIND SPEED
 FOUNDATION DETAILS

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PROJECT: N/A
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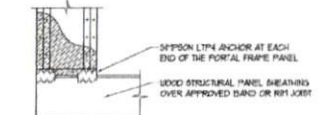
D1 FOUNDATION DETAILS

GENERAL WALL BRACING NOTES:

1. WALL BRACING DESIGNED IN ACCORDANCE WITH CHAPTER 6 OF THE 2018 NC RESIDENTIAL BUILDING CODE (RBC). TABLES AND FIGURES REFERENCED ARE FROM THE 2018 RBC.
2. BRACED EXTERIOR WALLS SUPPORTING ROOFS AND RAFTERS INCLUDING STORES BELOW THE TOP FLOOR HAVE BEEN DESIGNED PER FIGURE 5. WALL BRACING AND FASTENERS HAVE BEEN DESIGNED TO RESIST COMBINED UPLIFT AND SHEAR FORCES IN ACCORDANCE WITH ACCEPTED ENGINEERING PRACTICE.
3. SEE STRUCTURAL SHEETS FOR BRACED WALL LOCATIONS, OPENINGS, HOLD DOWN TYPE AND LOCATIONS, BRACED WALL LINE KEY WITH WALL DEMOGRAPHY OF REQUIRED PROVIDED TOTALS FOR EACH WALL LINE AND ANY SPECIAL NOTES OR REQUIREMENTS.
4. ALL EXTERIOR WALLS ARE TO BE BRACED WITH CS-50P IN ACCORDANCE WITH SECTION R6-02.10.3 UNLESS NOTED OTHERWISE.
5. ALL EXTERIOR AND INTERIOR WALLS TO HAVE 1/2" GYPSUM INSTALLED, WHEN NOT USING METHOD 105, GYPSUM TO BE FASTENED PER TABLE R6-02.3. METHOD 105 TO BE FASTENED PER TABLE R6-02.1.
6. CS-50P REFERS TO THE "CONTINUOUS BRACING - 5000 STRUCTURAL PANELS" WALL BRACING METHOD. "50" ORN BREATHERS IS TO BE INSTALLED ON ALL EXTERIOR WALLS ATTACHED TO 6" CONCRETE WALLS OR 8" (1) 1/2" LONG x 8" RIV (DIAMETER) NAILS BRACED 4" O.C. ALONG PANEL EDGES AND 16" O.C. IN THE FIELD (2) O.C.
7. GIB REFERS TO THE "GYPSUM BOARD" WALL BRACING METHOD. 1/2" (1) 1/2" GYPSUM BOARD IS TO BE INSTALLED ON BOTH SIDES OF THE BRACED WALL FASTENED WITH 1/4" SCREWS OR 1 5/8" NAILS SPACED 17" O.C. ALONG PANEL EDGES INCLUDING TOP AND BOTTOM PLATES AND INTERMEDIATE SUPPORTS (3) O.C. VERIFY ALL FASTENER OPTIONS FOR 1/2" AND 5/8" GYPSUM PRIOR TO CONSTRUCTION. FOR INTERIOR FASTENER OPTIONS SEE TABLE R6-03.1. FOR EXTERIOR FASTENER OPTIONS SEE TABLE R6-02.1. EXTERIOR GIB IS TO BE INSTALLED VERTICALLY.
8. REQUIRED BRACED WALL LENGTH FOR EACH SIDE OF THE CIRCUMSCRIBED RECTANGLE ARE INTERPOLATED PER TABLE R6-02.10.3. METHOD CS-50P CONTRIBUTES ITS ACTUAL LENGTH, METHOD GIB CONTRIBUTES 3 ITS ACTUAL LENGTH, AND METHOD 105 CONTRIBUTES IN 1/2 ITS ACTUAL LENGTH.

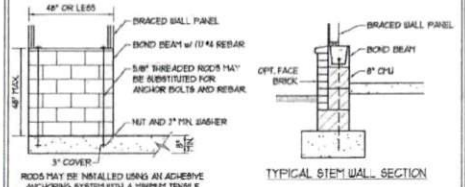
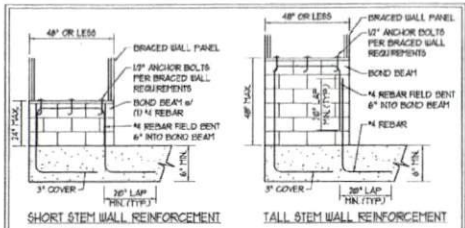


OVER CONCRETE OR MASONRY BLOCK FOUNDATION

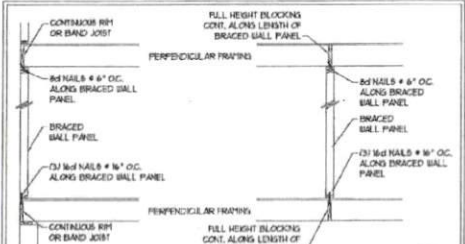


OVER RAISED WOOD FLOOR - FRAMING ANCHOR OPTION

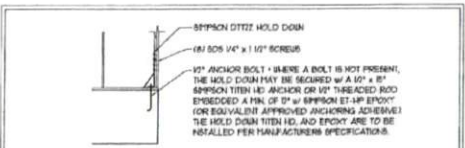
METHOD 105-PORTAL FRAME DETAIL (1)



NOTE: ABOUT BOND BEAMS AND ALL CELLS WHICH CONTAIN REBAR, THREADED RODS AND ANCHOR BOLTS
MASONRY STEM WALLS SUPPORTING BRACED WALL PANELS (2)
 PER FIGURE R6-02.10.4.3

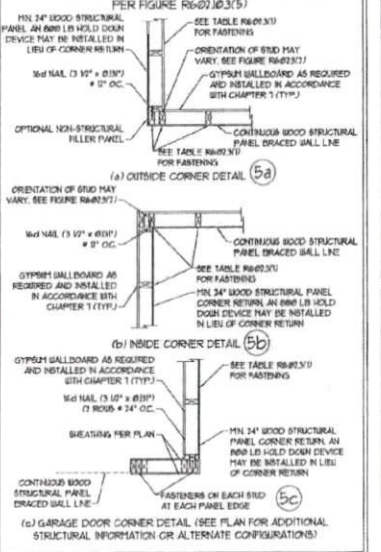


BRACED WALL PANEL CONNECTION WHEN PERPENDICULAR TO FLOOR/CEILING FRAMING (3)
 PER FIGURE R6-02.10.4.4(1)

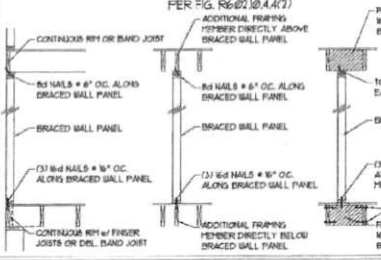


HOLD DOWN DETAIL FOR MASONRY FOUNDATION OR MONOLITHIC SLAB (4)
 * APPLICABLE ONLY WHERE SPECIFIED ON PLAN *

TYPICAL EXTERIOR CORNER FRAMING FOR CONTINUOUS SHEATHING (5)

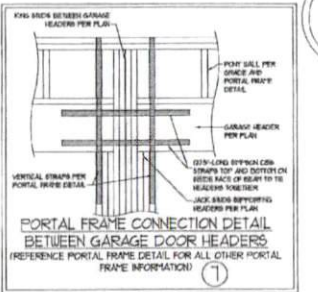


BRACED WALL PANEL CONNECTION WHEN PARALLEL TO FLOOR/CEILING FRAMING (6)

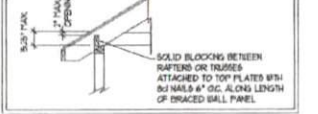


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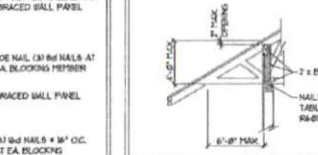
SCALE NOTE:
 LARGE FORMAT PRINTS ARE TO SCALE AS NOTED.
 11" x 17" PRINTS ARE ONE HALF THE NOTED SCALE



BRACED WALL PANEL CONNECTION TO PERPENDICULAR RAFTERS (8)
 PER FIGURE R6-02.10.4.5(1)



BRACED WALL PANEL CONNECTION TO PERPENDICULAR ROOF TRUSSES (9)
 PER FIGURE R6-02.10.4.5(3) (OR ALTERNATIVE: FIGURE R6-02.10.4.5(2))



DATE: 05/20/2019
 TIME: 10:17:17
 DRAWING: 101
 ENGINEER: JPT

SEAL
 33736
 ENGINEER
 MATTHEW G. STROTHER

3/7/19

J.S. THOMPSON
 ENGINEERING
 100 THOMPSON DRIVE
 WILSON, NC 27157
 N.C. LICENSE NO. 0170

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

DATE: 05/20/2019
 TIME: 10:17:17
 DRAWING: 101
 ENGINEER: JPT

D-2
 BRACED WALL NOTES
 AND DETAILS AND FT
 DETAILS

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

GENERAL NOTES

- ENGINEER'S SEAL APPLIES ONLY TO STRUCTURAL COMPONENTS INCLUDING ROOF TRUSSES, HPB, VALLEYS, RIDGES, FLOORS, WALLS, BEAMS, HEADERS, COLUMNS, CANTILEVERS, OFFSET LOAD BEARING WALLS, PIERS, GROUND SYSTEMS AND FOOTING. ENGINEER'S SEAL DOES NOT CERTIFY DIMENSIONAL ACCURACY OF ARCHITECTURAL LAYOUT INCLUDING ROOF. ENGINEER'S SEAL DOES NOT APPLY TO 1-JOIST OR FLOOR/ROOF TRUSS LAYOUT DESIGN AND ACCURACY.
 - ALL CONSTRUCTION SHALL CONFORM TO THE LATEST REQUIREMENTS OF THE NORTH CAROLINA RESIDENTIAL CODE (NCRS) 2008 EDITION, PLUS ALL LOCAL CODES AND REGULATIONS. THE STRUCTURAL ENGINEER IS NOT RESPONSIBLE FOR, AND WILL NOT HAVE CONTROL OF, CONSTRUCTION PRACTICES, TECHNIQUES, RESOURCES OR PROCEDURES, OR SAFETY PRECAUTIONS IN CONNECTION WITH THE CONSTRUCTION WORK. NONETHELESS, THE ENGINEER IS 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 NCRS, 2008 EDITION (RHS4 - RHS1)
- | DESIGN CRITERIA | LIVE LOAD (PSF) | DEAD LOAD (PSF) | DEFLECTION (IN) |
|-----------------------------------|---|-----------------|-----------------------------------|
| ATTIC WITH LIMITED STORAGE | 20 | 10 | L/400 (L/740 w/ BRITTLE FINISHES) |
| ATTIC WITHOUT STORAGE | 10 | 10 | L/200 |
| DECKS | 40 | 10 | L/240 |
| EXTENSIVE BALCONIES | 40 | 10 | L/240 |
| FIRE ESCAPES | 40 | 10 | L/240 |
| HANDRAILS/GUARDRAILS | 200 LB OR 50 (PLF) | 10 | L/240 |
| PASSENGER VEHICLE GARAGE | 50 | 10 | L/240 |
| ROOFS OTHER THAN SLEEPING ROOF | 40 | 10 | L/240 |
| SLEEPING ROOFS | 30 | 10 | L/240 |
| STAIRS | 40 | 10 | L/240 |
| WIND LOAD | (BASED ON TABLE R301(4) WIND ZONE AND EXPOSURE) | | |
| GRAVEL (WIND LOAD) P _g | 30 (PSF) | | |
- 1-JOIST SYSTEMS DESIGNED WITH 2 PSF DEAD LOAD AND DEFLECTION (DU) OF L/400
 - FLOOR TRUSS SYSTEMS DESIGNED WITH 1 PSF DEAD LOAD
- FOR 18" AND 24" PLY AND ZONES, FOUNDATION ANCHORAGE IS TO COMPLY WITH SECTION R401.5 OF THE NCRS, 2008 EDITION. FOR 6" PLY, 18" PLY, AND 24" PLY END ZONES, FOUNDATION ANCHORAGE IS TO COMPLY WITH SECTION R404 OF THE NCRS, 2008 EDITION.
 - ENERGY EFFICIENCY COMPLIANCE AND INSULATION VALUES OF THE BUILDING TO BE IN ACCORDANCE WITH CHAPTER 8 OF THE NCRS, 2008 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 DEPTH SHALL NOT EXCEED 24" FOR CLEAN SAND OR GRAVEL. A 4" THICK BASED COURSE CONSISTING OF CLEAN GRAZED 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 R401.5 OF THE NCRS, 2008 EDITION.
- PROPERLY DEWATER EXCAVATION PRIOR TO POURING CONCRETE. BARR BOTTOM OF CONCRETE SLAB IS AT OR BELOW WATER TABLE. IF APPLICABLE, 3/4" DEEP CONTROL JOINTS ARE TO BE BARRED WITHIN 4 TO 9 HOURS OF CONCRETE FINISHING AND WALL LOCATIONS HAVE BEEN MARKED. ADJUST WHERE NECESSARY.
- CONCRETE SHALL CONFORM TO SECTION R401.2 OF THE NCRS, 2008 EDITION. CONCRETE REINFORCING STEEL TO BE ASTM A63 GRADE 60. UNLESS OTHERWISE SPECIFIED TO BE ASTM A63. 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 1 1/2". CONCRETE COVER FOR REINFORCING STEEL MEASURED FROM THE OUTSIDE FACE OF THE WALL SHALL NOT BE LESS THAN 1 1/2" FOR 1/2" BARS OR SMALLER, AND NOT LESS THAN 2" FOR 3/4" BARS OR LARGER.
- MASONRY UNITS TO CONFORM TO ACE 536/ACCE 5/10 402. MORTAR SHALL CONFORM TO ASTM C778.
- 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 BOLD WITH CONCRETE OR SHALL BE 11 OR 13 HORTAR 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 GROUNDER 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 R401 OF THE NCRS, 2008 EDITION OR IN ACCORDANCE WITH ACI 318, ACI 308, ACI 309, ACI 310, ACI 311, ACI 312, ACI 313, ACI 314, ACI 315, ACI 316, ACI 317, ACI 318, ACI 319, ACI 320, ACI 321, ACI 322, ACI 323, ACI 324, ACI 325, ACI 326, ACI 327, ACI 328, ACI 329, ACI 330, ACI 331, ACI 332, ACI 333, ACI 334, ACI 335, ACI 336, ACI 337, ACI 338, ACI 339, ACI 340, ACI 341, ACI 342, ACI 343, ACI 344, ACI 345, ACI 346, ACI 347, ACI 348, ACI 349, ACI 350, ACI 351, ACI 352, ACI 353, ACI 354, ACI 355, ACI 356, ACI 357, ACI 358, ACI 359, ACI 360, ACI 361, ACI 362, ACI 363, ACI 364, ACI 365, ACI 366, ACI 367, ACI 368, ACI 369, ACI 370, ACI 371, ACI 372, ACI 373, ACI 374, ACI 375, ACI 376, ACI 377, ACI 378, ACI 379, ACI 380, ACI 381, ACI 382, ACI 383, ACI 384, ACI 385, ACI 386, ACI 387, ACI 388, ACI 389, ACI 390, ACI 391, ACI 392, ACI 393, ACI 394, ACI 395, ACI 396, ACI 397, ACI 398, ACI 399, 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FRAMING NOTES

- ALL FRAMING LUMBER SHALL BE 2" SPT MINIMUM (F_b = 875 PSF, F_v = 370 PSF, E = 1,900,000 PSI) UNLESS NOTED OTHERWISE (IND). ALL TREATED LUMBER SHALL BE 5 SPT MINIMUM (F_b = 570 PSF, F_v = 170 PSF, E = 1,900,000 PSI) UNLESS NOTED OTHERWISE (IND).
- LAMINATED VENEER LUMBER (LVL) SHALL HAVE THE FOLLOWING MINIMUM PROPERTIES: F_b = 4,000 PSI, F_v = 285 PSF, E = 2,800,000 PSI. LAMINATED STRAND LUMBER (LSL) SHALL HAVE THE FOLLOWING MINIMUM PROPERTIES: F_b = 2,370 PSI, F_v = 300 PSF, E = 2,800,000 PSI. PARALLEL STRAND LUMBER (PSL) UP TO 1" DEPTH SHALL HAVE THE FOLLOWING MINIMUM PROPERTIES: F_b = 2,600 PSF, E = 2,800,000 PSI. PARALLEL STRAND LUMBER (PSL) MORE THAN 1" DEPTH SHALL HAVE THE FOLLOWING MINIMUM PROPERTIES: F_b = 2,600 PSF, E = 2,800,000 PSI. INSTALL ALL CONNECTIONS PER MANUFACTURER'S SPECIFICATIONS.
- STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING ASTM SPECIFICATIONS:
 - A. 8" AND 10" SHAPES: ASTM A992
 - B. CHANNELS AND ANGLES: ASTM A992
 - C. PLATES AND BARS: ASTM A572
 - 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 (IND). PROVIDE SOLID BEARINGS FROM NEAR SUPPORT TO FOUNDATION. BEAMS SHALL BE ATTACHED AT THE BOTTOM FLANGE TO EACH SUPPORT AS FOLLOWS (IND):
 - 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 SPMON TITEN HD ANCHORS
 LATERAL SUPPORT IS CONSIDERED ADEQUATE PROVIDING THE JOISTS ARE TOE NAILED TO THE 3/4" NAILER ON TOP OF THE STEEL BEAM, AND THE 3/4" 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 5/8" 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 R401.1(1) AND R401.1(2) OF THE NCRS, 2008 EDITION OR TO (2) 2" x 8" WITH (1) JACK AND (1) KING STUD EACH END (AND) WHICHEVER IS GREATER ALL HEADERS TO BE SECURED TO EACH JACK STUD WITH (4) 6d NAILS. ALL BEAMS TO BE SUPPORTED WITH (2) STUDS AT EACH BEARING POINT (IND). INSTALL KING STUDS PER SECTION R401.1(5) OF THE NORTH CAROLINA RESIDENTIAL CODE, 2008 EDITION.
- ALL BEAMS, HEADERS, OR GROUND 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 GROUND TRUSSES PERPENDICULAR TO WALL AND SUPPORTED BY (3) STUDS OR LESS ARE TO HAVE 1 1/2" MINIMUM BEARING (IND). ALL BEAMS OR GROUND TRUSSES PERPENDICULAR TO WALL AND SUPPORTED BY MORE THAN (3) STUDS OR OTHER NOTED COLUMN ARE TO BEAR FULLY ON SUPPORT COLUMNS FOR ENTIRE WALL DEPTH (IND). BEAM ENDS THAT ENIT INTO ONE ANOTHER ARE TO EACH BEAR EQUAL LENGTHS (IND).
- PLUG BEAMS SHALL BE BOLTED TOGETHER USING 1/2" DIAMETER BOLTS (ASTM A307) WITH WASHERS PLACED AT THREE QUARTER END OF BOLT. BOLTS SHALL BE SPACED AT 24" CENTERS (MINIMUM) AND STAGGERED AT TOP AND BOTTOM OF BEAM (7" EDGE DISTANCE) WITH (2) BOLTS LOCATED AT 6" FROM EACH END (IND).
- ALL 1-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 R602.1.
- PROVIDE DOUBLE JOIST UNDER ALL WALLS PARALLEL TO FLOOR JOISTS. PROVIDE SUPPORT UNDER ALL WALLS PARALLEL TO FLOOR TRUSSES OR 1-JOISTS PER MANUFACTURER'S SPECIFICATIONS. INITIAL 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, NEST A 6" x 6" x 1/2" STEEL ANGLE WITH 6" MINIMUM EMBEDMENT AT SIDES FOR BRICK SUPPORT (IND). FOR ALL HEADERS 8'-0" AND GREATER IN LENGTH, BOLT A 6" x 6" x 1/2" STEEL ANGLE TO HEADER WITH (2) LAG SCREWS AT 16" O.C. STAGGERED FOR BRICK SUPPORT. FOR ALL BRICK SUPPORT AT ROOF LINES, BOLT A 6" x 6" x 1/2" STEEL ANGLE TO (2) 2" x 10" BLOCKING INSTALLED W/ (4) 6d NAILS EA. PLY BETWEEN WALL STUDS WITH (2) ROWS OF 1/2" LAG SCREWS AT 16" O.C. STAGGERED AND IN ACCORDANCE WITH SECTION R602.2(1) OF THE NCRS, 2008 EDITION.
- FOR STEEL FRAMED ROOFS, CIRCLES DENOTE (2) 2 x 4 POSTS FOR ROOF MEMBER SUPPORT. HPB BRICES ARE TO BE SPACED A MINIMUM OF 8'-0". FASTEN MEMBERS WITH THREE ROWS OF 6d NAILS AT 16" O.C. FRAME DOORER WALLS ON TOP OF DOUBLE OR TRIPLE RAFTERS AS SHOWN (IND).
- FOR TRUSSED ROOFS, FRAME DOORER WALLS ON TOP OF 2 x 4 LADDER FRAMING AT 24" O.C. BETWEEN ADJACENT ROOF TRUSSES. STICK, FRAME OVER-FRAME ROOF SECTIONS WITH 2 x 8 RIDGES, 2 x 6 RAFTERS AT 16" O.C. AND PLAT 2 x 10 VALLEYS (IND).
- ALL 4 x 4 AND 4 x 6 POSTS TO BE INSTALLED WITH 100 LB CAPACITY SELF CONNECTIONS TOP AND BOTTOM (IND). POSTS MAY BE SECURED USING ONE SPMON HS OR LTRB 1801 CONNECTION FASTENED TO THE BAND AT THE BOTTOM AND THE BEAM AT THE TOP OF EACH FOOT. ONE 1/2" SECTION OF SPMON CSW COL. STRAPPING WITH (6) 1/4" HDG NAILS AT EACH END MAY BE USED IN LIEU OF EACH TRUSS STRAP IF DESIRED. FOR MASONRY OR CONCRETE FOUNDATION USE SPMON POST BASE.

Matthew G. Strotter
Professional Engineer
Seal 33736
Matthew G. Strotter
Engineer
3/7/19

J.S. THOMPSON
ENGINEERING, INC.
REGISTERED PROFESSIONAL ENGINEER
IN THE STATE OF NORTH CAROLINA
LICENSE NO. 10001

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

DATE: 03/07/19 10:37 AM
DRAWN BY: JST
CHECKED BY: JST

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