

EMBARK H&H HOMES

PLAN REVISIONS

REVISED CUISHEETS

II-08-11 COMPLETED CONSTRUCTION DOCUMENTS INCLUDING CLIENT REVIEW COMMENTS.

II-16-11 MIRRORED PLANS TO CREATE LEFT HAND GARAGE VERSION.

03-14-18 STANDARD CLIENT CHANGES PER CLIENT WALK-THRU NOTES DATED 08-30-18. CHANGES INCLUDE BUT NOT LIMITED TO THE FOLLOWING: REMOVE OPT, LAINDRY TUB, REMOVE KITCHEN ISLAND KNEEUALLS, CHANGE KITCHEN ISLAND COUNTER TOP TO HAVE IZ" OVERHANGS, REMOVE O.H.C. ABOVE FRIDGE, ADD FLUMBING DROP UNDER CABINET, REMOVE GARAGE SERVICE DOORS, REMOVE OPT, RAILING AT STAIRS, REVISE ALL SECONDARY CLOSETS AND LINENS TO HAVE BI-FOLD DOORS, REVISE OPT, E-CENTER TO HAVE 18" DRAUER BANK EACH SIDE WITH 32" KNEE SPACE WITH 2 USB OUTLETS, REMOVE WINDOW GRIDS AT SIDES AND REAR ELEVATIONS, CHANGE ALL GARAGE DOORS TO 16 PANEL DOORS, REVISE DATA DROPS TO BE I PHONE IN KITCHEN AND I T.V. IN CUNERS SUITE AND GATHERING ROOM ONLY, REMOVE COVERED PORCH OPTION, REVISE KITCHEN LIGHTING TO BE 4-BULB FLUORESCENT LIGHT.

> PLAN SPECIFIC CHANGES INCLUDE BUT NOT LIMITED TO THE FOLLOWING: REMOVE OPT. DOOR AT OWNER'S SUITE, REMOVE OPT, WINDOW AT BACK AND SIDE WALLS OF GATHERING ROOM, REMOVE OHC. ABOVE REF. AND SIDE WALL.

ELEVATION "A" - REMOVE PICTURE FRAMING AT FRONT PORCH AND ADD PILASTER 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

ELEVATION "C" - CHANGE HIP AT REAR OF HOUSE TO GABLE WITH FLUSH OVERHANG.

02-04-20 ADJUSTED THE PATIO/PAD TO MEASURE 10" X 8" AND ADJUSTED DIMENSIONS OF CONCRETE

VERIFIED HDR. HGT. WAS AT LEAST TI-O' ON ALL EXTERIOR WINDOWS. VERIFIED ROOM SIZES AND DIMENSIONS. CHANGED WASHER, DRYER, AND REFRIGERATOR TO OPTIONAL COMPONENTS. VERIFIED MASTERS WAS CHANGED TO OWNER'S THROUGHOUT PLAN. CHANGED FRONT DOOR ON ELEVATION C TO 2-PANEL INSTEAD OF 3-PANEL DOOR. ADDED ROOF VENT CALCULATIONS OF ALL ELEVATION. CHANGED 2X4 WALL AT REAR OF THE GARAGE TO 2X6 WALL. UPDATED SLAB INTERFACE PLAN AND OPTIONS. ADDED OPT DBI OVEN TO PLANS IN KITCHEN ADDED INSULATION DETAIL TO PLAN SHEETS. ADDED 3-0 5-0 WINDOW AT OWNER'S BEDROOM FOR VENTILITION PURPOSES. CHANGE ALL CEILING FANS TO OPTIONAL.

SQUAF	RE FOOT	AGE	
HEATED AREAS	ELEV A'	ELEV 'B'	ELEA ,
MAIN FLOOR	724 SQ. FT	1724 SQ. FT.	17.4 SQ.
TOTAL HEATED SF	1724 SQ. FT	1724 SQ. FT.	1724 SQ F
UNHEATED AREAS	W		V
1 CAR GARAGE	240 SQ. FT	249 SQ. FT.	249 SQ. F
COVERED AREAS			
FRONT PORCH	3 SQ. FT	63 SQ. FT.	67 SQ.
UNCOVERED AREAS			
OPTIONAL PATIO	80 SQ. FT.	80 SQ. FT.	80 SQ. F
OPTIONAL EXTENDED PATIO	100 SQ. T	100 SQ. FT	100 SQ. F
UNHEATED OPTIONS	10		9
OPTIONAL 1-CAR GARAGE	240 SQ. FT.	240 SQ	240 SQ. F

ISSUANCE OF PLANS FROM THIS DRAFTERS OFFICE SHALL NOT RELEVE THE BULDER OF RESPONSIBILITY TO REVIEW AND VERFY ALL NOTES, DYENSIONS, AND ADJERENCE TO APPLICABLE BULDNIS CODES FROM TO COTTENCE THE OFFICE OF STREET OF APPLICABLE BULDNIS CODES SHALL BE BROWNED TO THE ATTENDION OF THE DRAFTERS OFFICE FOR CORNECTION BEFORE COTTENCE THE OF ANY CODESTINATION OF THE DRAFTERS OFFICE FOR CORNECTION BEFORE OFFICE FOR ANY CONSTRUCTION.

ANY REVISIONS OR CHANGES, NOT RELIABED TO THE CORNECTION OF ERRORS THAT ARE THADE AFTER THE RIVAL THAN THAN DETERMINED THE FORMER THAN THE DRAFTER SHALL RUNG BEFORE THAN THE THAN THE DRAFTERS OFFICE HOW THAN THE DRAFTERS OFFICE THAN THE DRAFTERS OFFICE THAN THE DRAFTERS OFFICE THAN THE DRAFTERS OFFICE, THE DRAFTER SHALL NOT BE HELD RESPONSIBLE.

DAVIS BEWS DESIGN GROVP EO STATE STREET EAST CLOMAR, RORIDA 14677 613 - 925 - 1300 TEL 613 - 925 - 1800 FAX WWW.DAVIEREWIJCOM TAMPA · DENVER DRAWINGS ON II"XIT" SHEET ARE ONE HALF THE SCALE NOTED

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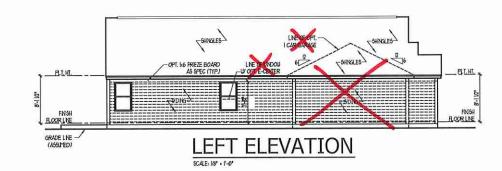
EMBARK (GARAG HOM H&H

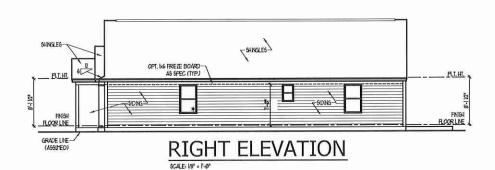
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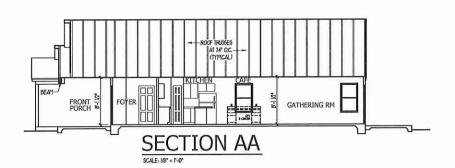










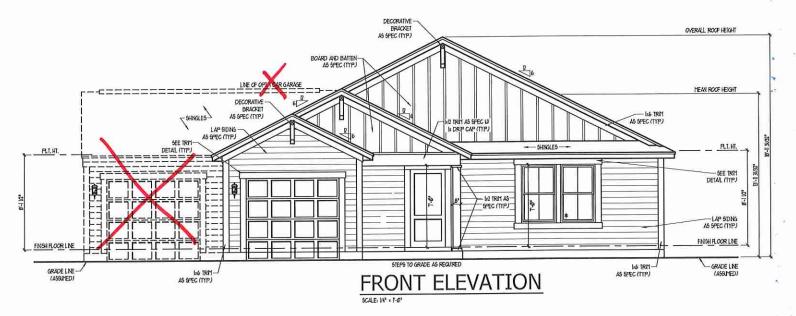


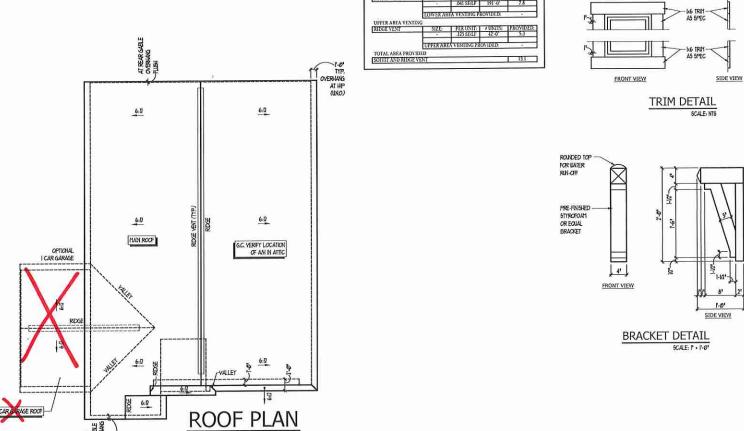
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ANY DISCREPANCY OF ERROR IN NOTES, D'ENSIONS, OR ADMERNICE TO APPLICABLE BUILDING CODES SHALL BE PROVIDED TO THE ATTENTION OF THE DRAFTER'S OFFICE FOR CORNECTION BEFORE CONTENCEDED OF ANY CONSTRUCTION.

ANY REVISIONS OR CHAVES, NOT RELIABED TO THE CORNECTION OF ERRORS THAT ARE MADE AFTER THE FRAM, FLAS HAVE BEEN COPPLIED SHALL BE SURECT TO ADDITIONAL FIELS.

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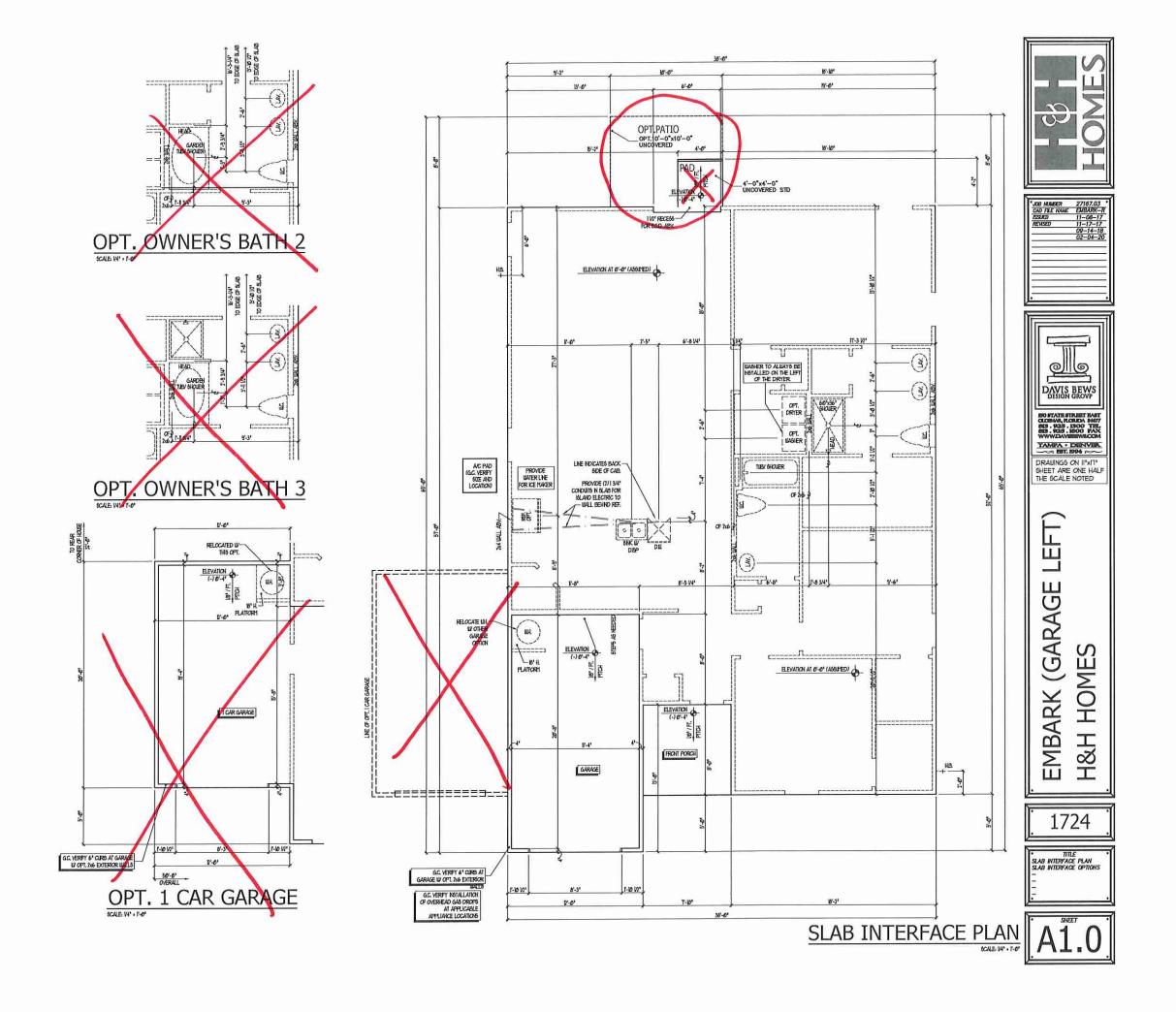
DRAWINGS ON II"x17" SHEET ARE ONE HALF THE SCALE NOTED

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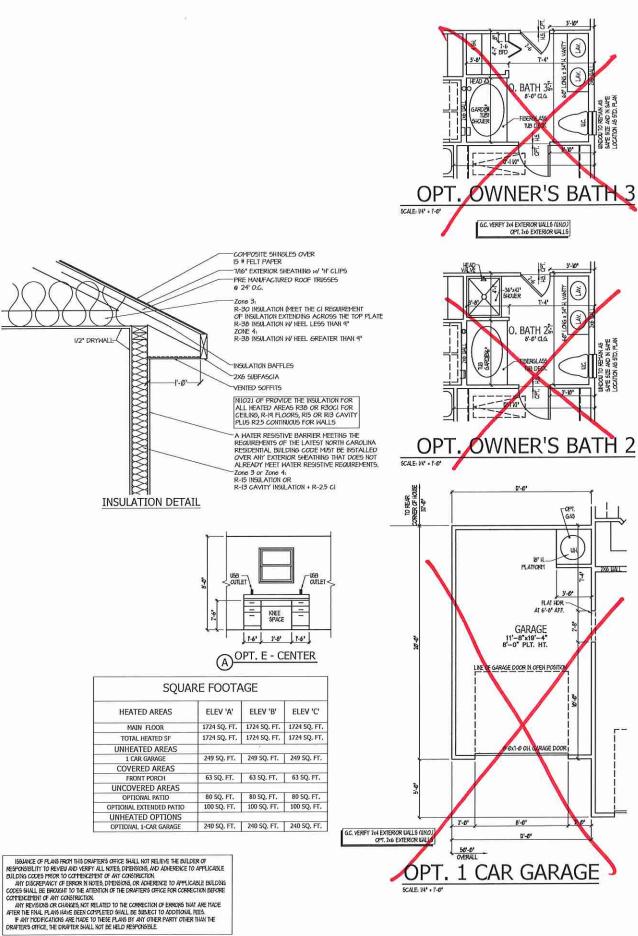


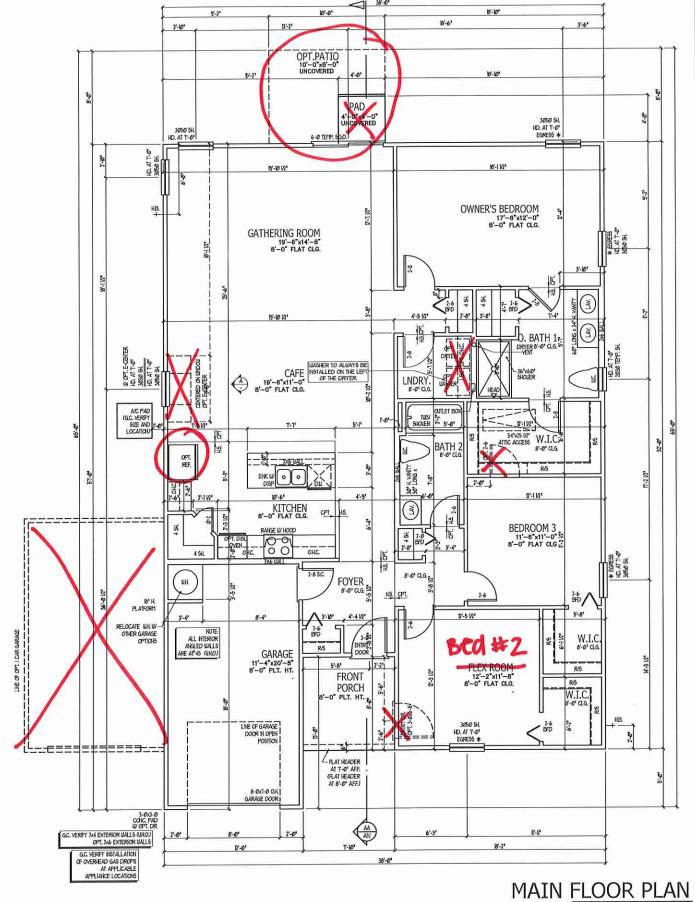
ELEVATION "B" - FARMHOUSE GARAGE RIGHT



ISSUANCE OF FLANS FROM THIS DRAFTER'S OFFICE SHALL NOT RELIEVE THE BULDER OF RESPONSIBILITY TO REVIEW AND VERRY ALL HOTES, DYENSIONS, AND ADVERSIVE TO AFFLICABLE BULDNIS CODES PRIOR TO COPYTECHNOTE, OF ANY CONSTRUCTION. ANY DISCORPANCY OF REPROFE HOUSES, DYENSIANS, OR ADVERSIVE TO AFFLICABLE BULDNIS CODES SHALL BE BROUGHT TO THE ATTENTION OF THE DRAFTERS OFFICE FOR CORRECTION BEFORE COPYTECHNOTE OF ANY CONSTRUCTION.

ANY REVISION OR CHANCES, NOT RELIED TO THE CORRECTION OF REPROFE THAT ARE HAVE AFTER THE THAL FLANS HAVE BEEN COPYTEINED SHALL BE SUBJECT TO ADDITIONAL HEA. FAIN THORFICATIONS ARE HAVE TO THESE FLANS BY ANY OTHER THAN THAN THAN THAT THE PLANS BY ANY OTHER THAN THE PLANS BY ANY OTHER THAN THE PLANS BY ANY OTHER THAN THE DRAFTER SHALL NOT BE HELD RESPONSIBLE.





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DAVIS BEWS DESIGN GROVE

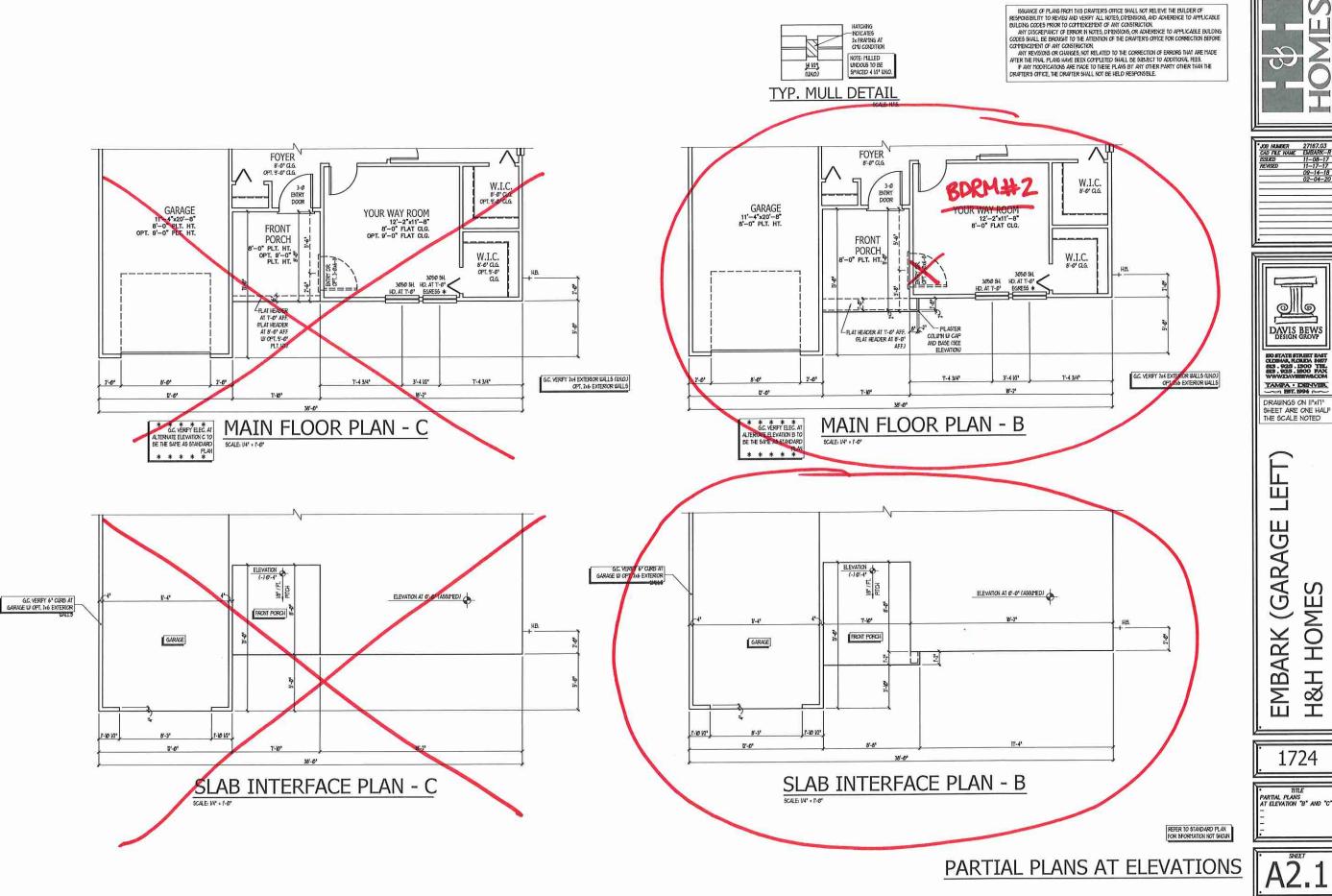
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DRAWINGS ON II"xIT"

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LOOR PLAN

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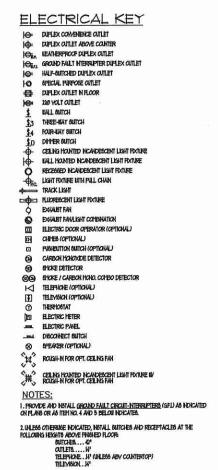
DAVIS BEWS DESIGN GROVP BO STATE STREET BAST CLOBAR, ROBDA 5657 615 - 925 - 1500 TEL 615 - 925 - 1800 PAX WWWDAVEEWBCOM TAMPA · DENVER

H&H HOMES

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PARTIAL PLANS AT ELEVATION "B" AND "C"

A2.1



3. ALL MOKE DETECTORS MALL BE HAPDINED NTO AN ELECTRICAL POWER SCIRCE AND MALL BE EQUIPTED WITH A MONTORED BATTERY BACKUP, PROVIDE AND NOTALL LOCALLY CERTIFED MICKE DETECTORS.

4. ALL DA AND 26A RECEPTACLES IN BLEFFNE ROCHS, FAYILY ROCHS, DANS ROCHS, LIMPS ROCHS, PARLARS, LERARRES, DEBS, BURCOHS, RECRESTION ROCHS CADETS, MULLIAY, AND MITH, AREAS INLL. RESIDER A CONFENSION TITLE AFCIL DEVICE AND TAYFER-PROCE RECEPTACLES FER NEC. 201 406 D. AND 406 ID

B. ALL BA AND 26A BOY RECEPTACLES LOCATED IN THE GARAGE AND UTILITY ROCHS SHULL BE GFCL PROTECTED (GFL).

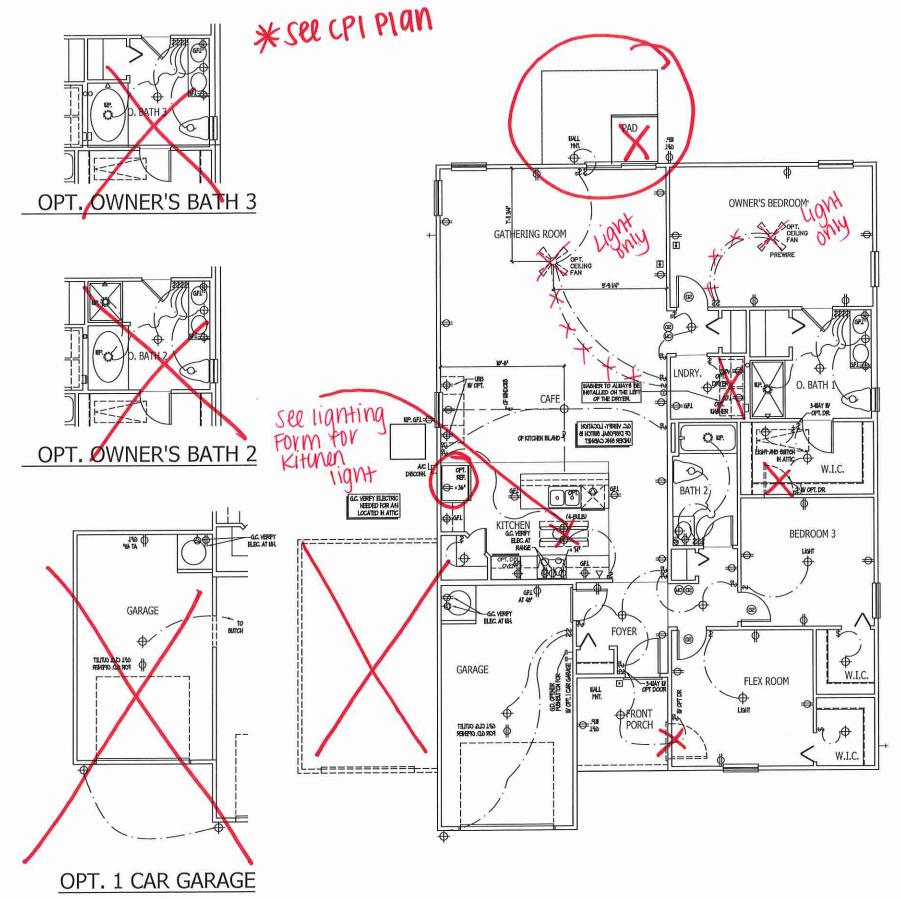
6. IT IS THE RESPONDIBILITY OF THE LICENSED ELECTRICAN TO ENVIRE THAT ALL ELECTRICAL LOOK IS IN RULL COMPLIANCE WITH NUPPA TO, NEC. 201, PECR. - 5TH EDITION (2011), AND ALL APPLICABLE LOCAL STANDARDS, CODES, AND ORDINANCES.

1. EVERY BUILDING HAVING A ROBBL-REL-BURNING HEATER OR APPLIANCE, INSPILACE, OR AN ATTACHED GARACE BHALL HAVE AN OPERATIONAL CARBON HOMORDE DETECTOR INSTALLED LITTIN OF HEIT OF EACH ROCH USED FOR BLEEPING

A JUSTIO SHALL RECEIVE THER FROMMY FOUR FROM THE DULDN'S WINNS WEN BUSH WINN IS BERYED FROM THE LOCAL POWER WILLTH, WORM JUSTION SHALL HAVE BUTTETT BOADLY COMBANION RESCENCEMENT HOROGODE JUSTION BUILL BUT LISTED OR LAMBEED BY A HATCHALLY RECORDED TESTING LABORATORY.

MUNICE OF FLAN FIRST HIS DIVINITIES CHICE SHALL NOT RELIEVE THE BULDER OF RESPONDEDLITY TO REVELLAD VERFOR ALL NOTES, DIVENKINS, AND ACHERICE TO AFFLICABLE BULDING COCKES PROVE TO CONTRICTION. AND TO RESPOND TO FERRORS IN NOTES, DIVENKINS, OR ACHERICE TO AFFLICABLE BULDING COCKES SHALL BE RECOLATE TO THE ATTENTION OF THE PRIVILITIES OF THE TOR CORRECTION RESPOND CONTRICTION OF ANY CONSTRUCTION. AND THE ATTENTION OF THE PROVINCE OF THE TOR ACT OF THE TORS OF THE TORS THAT ARE INDEED AFTER THE PINAL PLANS HAVE DEED COPILIZED BULL DE BURDET TO ACCIDINAL PERS. FAIR TROPPORTIONS ARE HELD TO THE TERM FOR THE PARTY OTHER THAN THE PRAY TROPPORTIONS ARE HELD TO THE THE PROPOSITION.

MALANCE OF FLANS FROM THIS DRAFTER'S OFFICE SHALL NOT RELEVE THE BUILDER OF







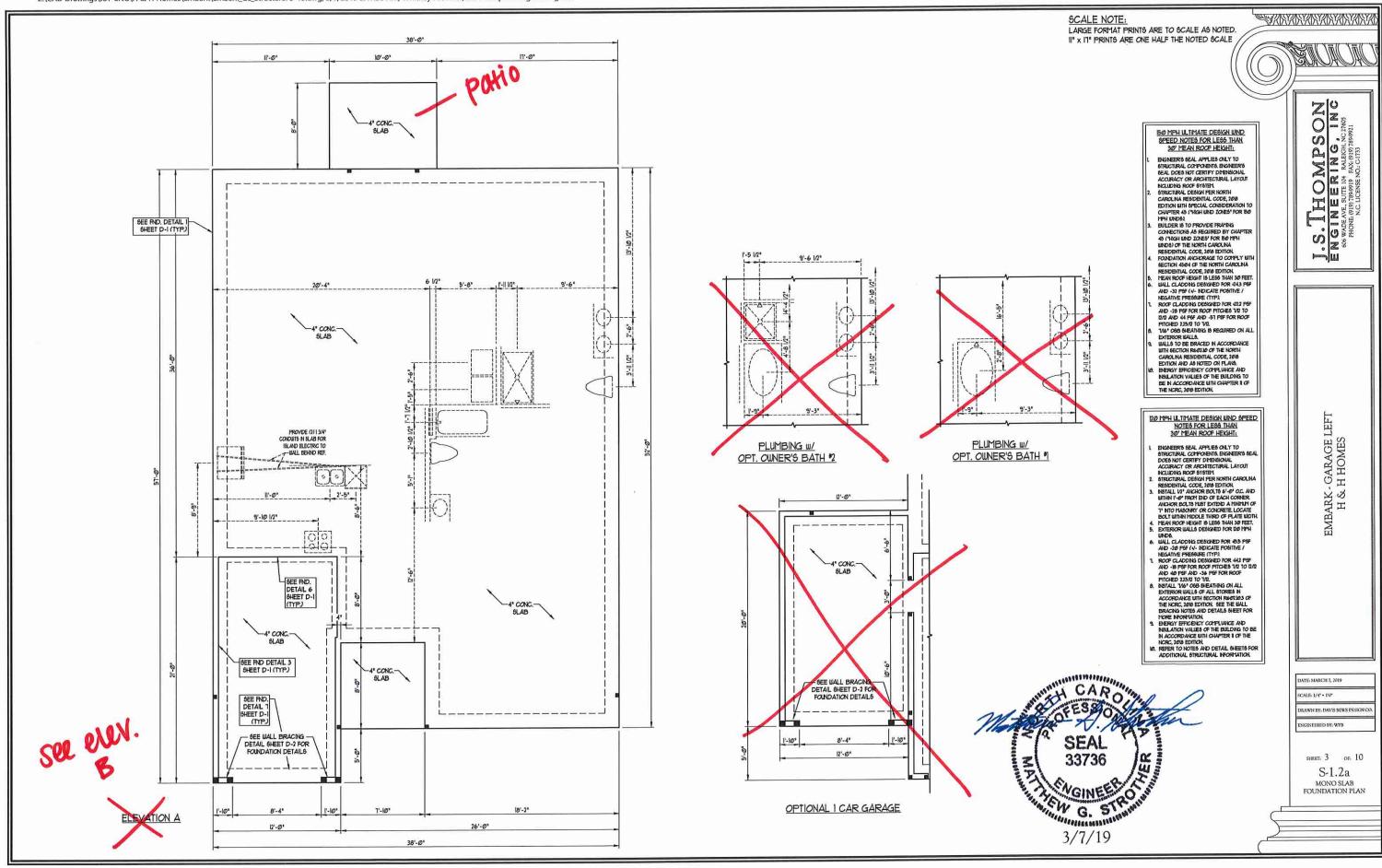


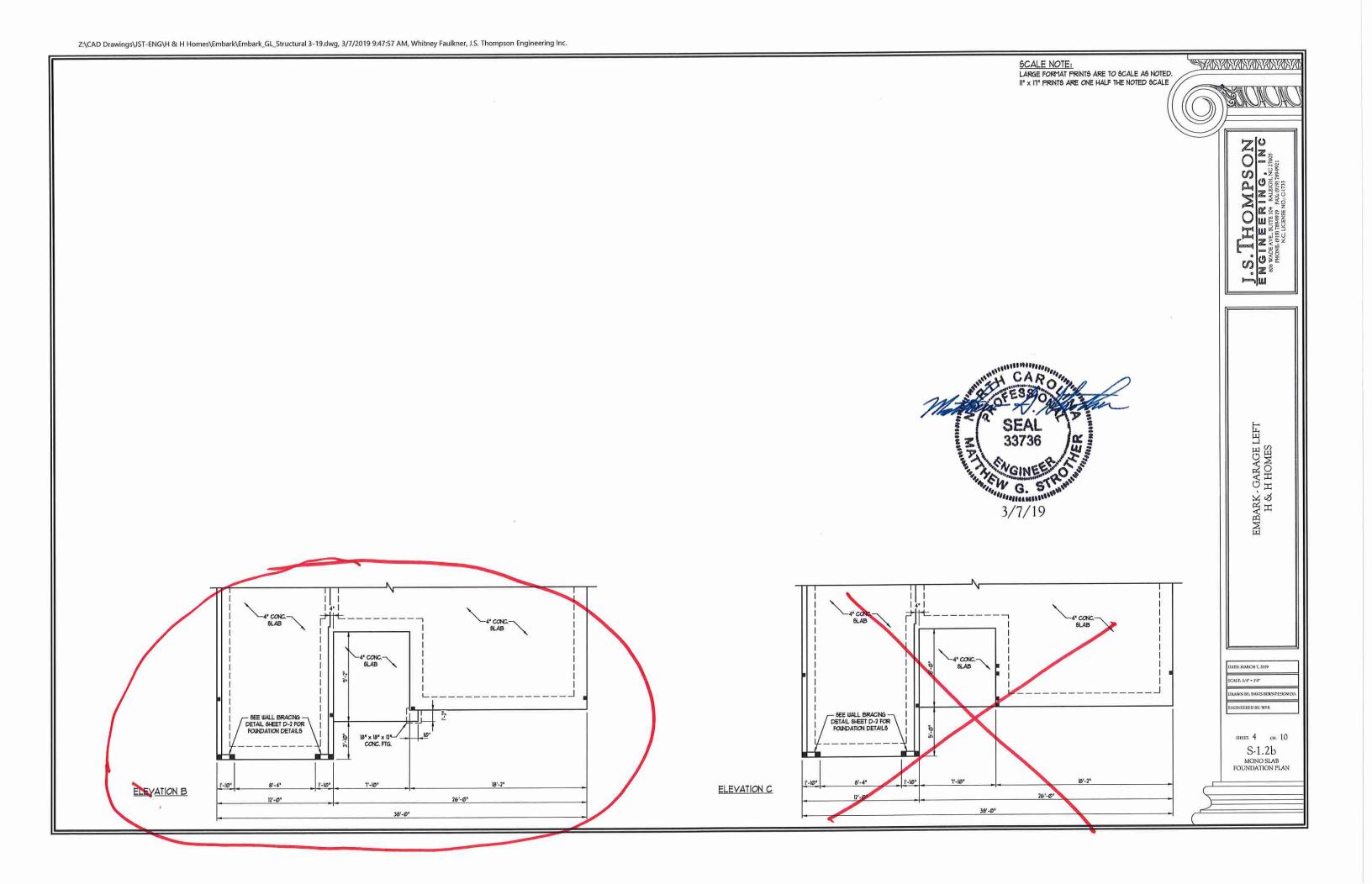
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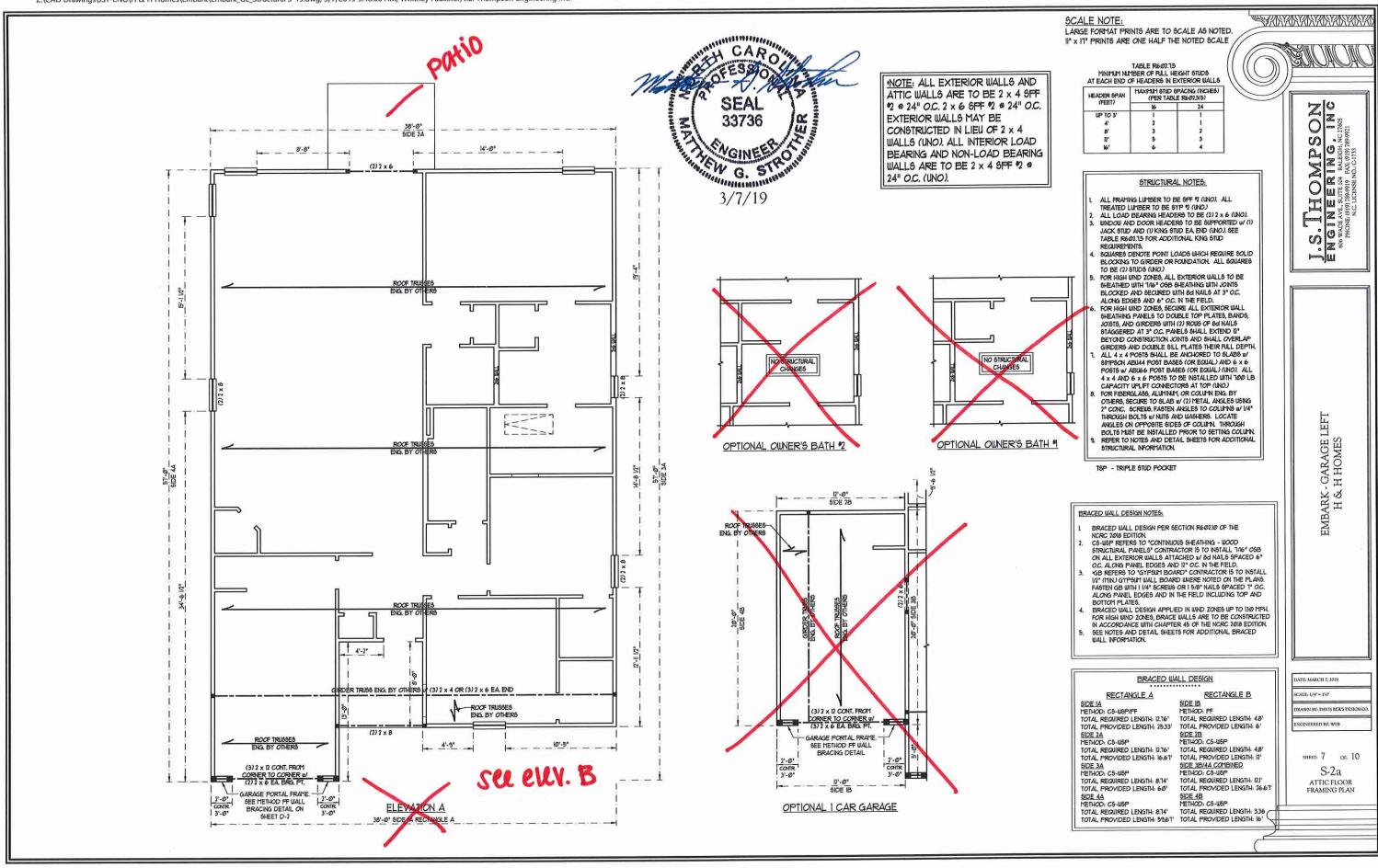
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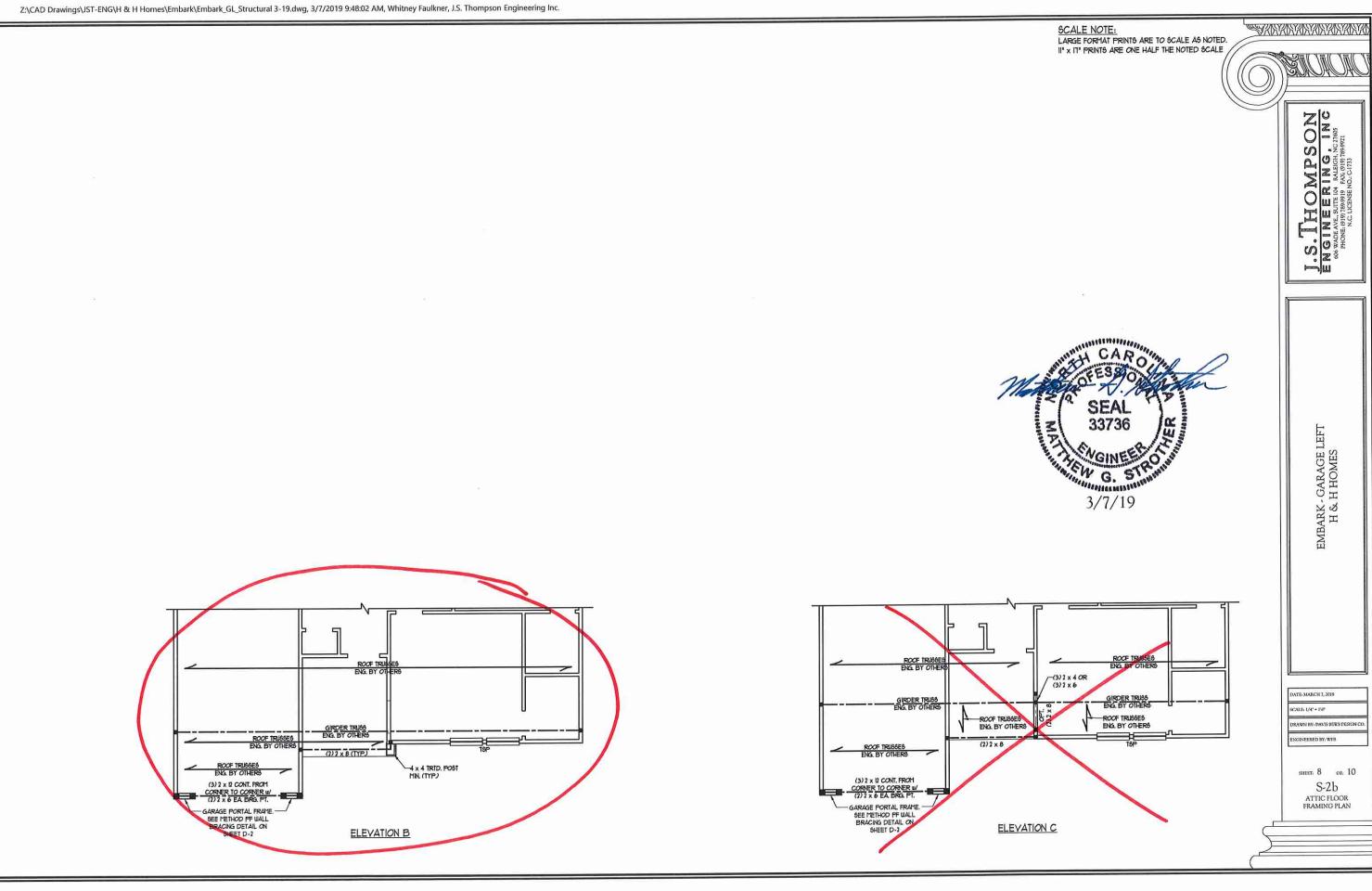


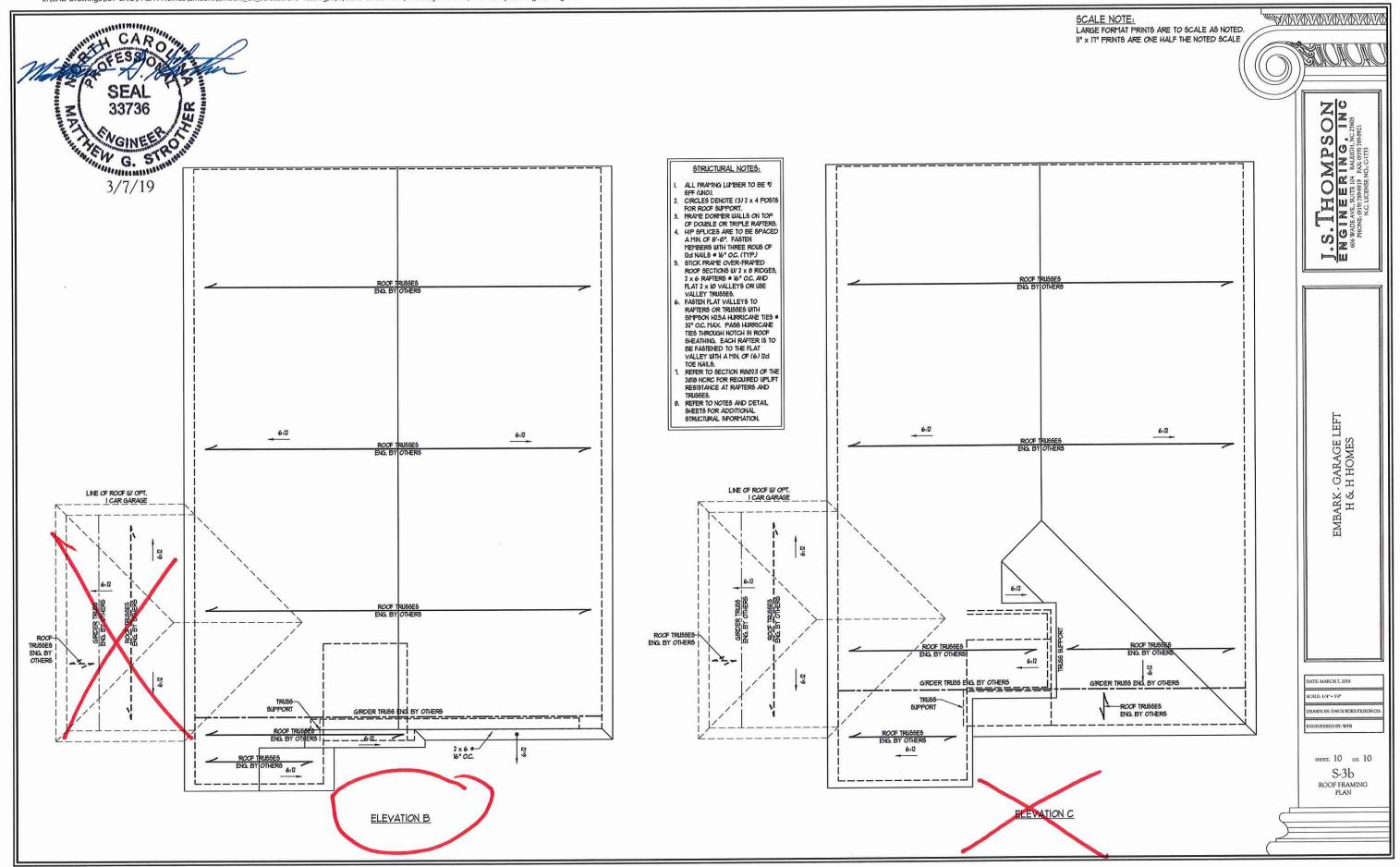
ELECTRICAL PLAN

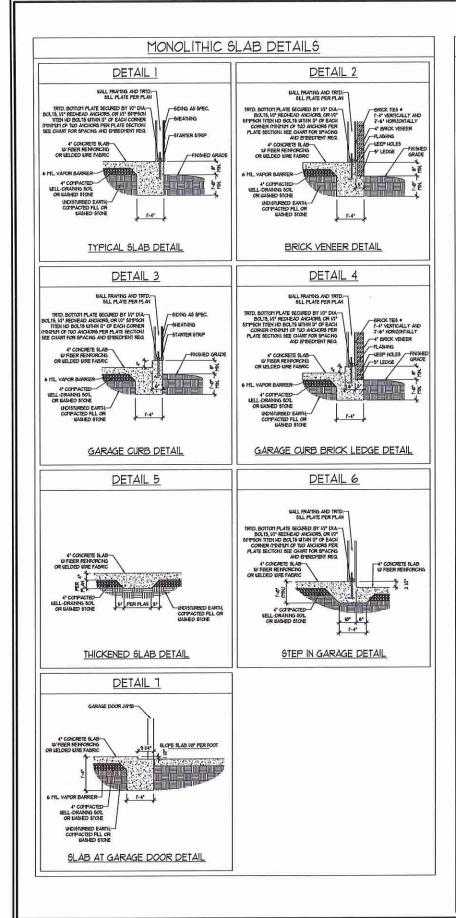


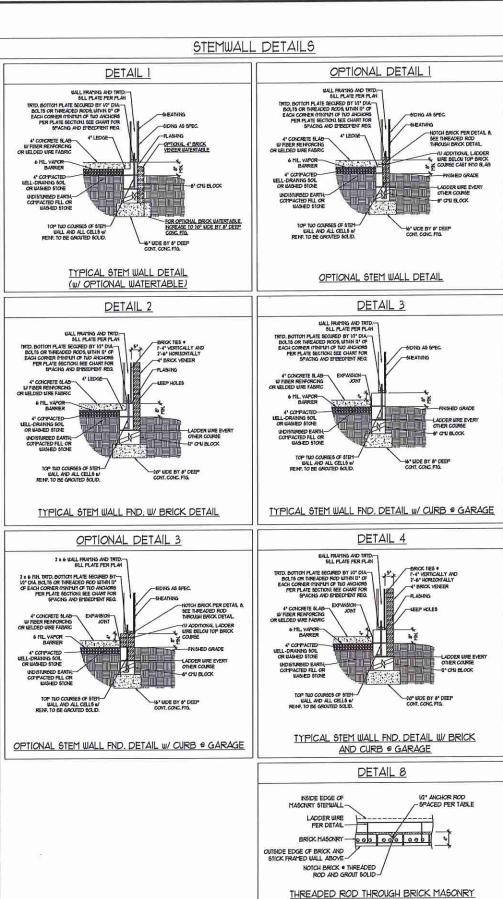












	MASONRY S	TEMWALL SPE	ECIFICATIONS		
WALL HEIGHT (FEET)	HASONRY WALL TYPE				
	8" CMJ	4" BRICK AND 4" CMI	4" BRICK AND 8" CHIJ	n, cun	
2 AND BELOW	UNGROUTED	GROUT SOLID	UNGROUTED	UNGROUTED	
3	UNGROUTED	GROUT SOLID	UNGROUTED	UNGROUTED	
4	GROUT SOLID	GROUT SOLID w/ 44 REBAR # 48" OC.	GROUT SOLID	GROUT SOLID #/ 44 REBAR # 64" OC.	
5	GROUT SOLID w/ *4 REBAR # 36* O.C.	NOT APPLICABLE	GROUT SOLID w/ 14 REBAR # 36" O.C.	GROUT SOLID W/ 44 REBAR # 64" O.C.	
6	GROUT SOLID #/ *4 REBAR # 24* O.C.	NOT APPLICABLE	GROUT SOLID w/ 14 REBAR # 24" O.C.	GROUT SOLID u/ 44 REBAR # 64* O.C.	
1 AND GREATER	ENGINEERED DESIGN BASED ON SITE CONDITIONS				

STRUCTURAL NOTES:

EMBEDMENT

- UMALL HEIGHT PEASURED FROM TOP OF FOOTING TO TOP OF THE WALL

 THE MALTIFLE WITHES TOGETHER WITH LADDER WIFE AT 16" OC. VERTICALLY.

 THE MALTIFLE WITHES TOGETHER WITH LADDER WIFE AT 16" OC. VERTICALLY.

 CHART APPLICABLE FOR HOUSE FONDATION QULY. CONSULT ENSINEER FOR DESIGN OF GARAGE FONDATION NOT COTTON TO HOUSE.

 BACKFILL OF CLEAN F51 / 15" WASHED STONE IS ALLOWABLE.

 BACKFILL OF CHELL DRAND OR SAND GRAVEL MINTINE 501.5 (LASSFIED AS GROUP! ACCORDING TO WIFED 501.5 CLASSFICATION STOTEN IN ACCORDINGE WITH LADBE RADS) OF THE 100 INTERNATIONAL RESIDENTIAL CODE ARE ALLOWABLE.

 FREP SLAD FOR ESSED JAND ESSED BASE OF THE 7019 INTERNATIONAL RESIDENTIAL CODE. HINWITH X1" LAP SPLICE LEIGHT.

 LOCATE REBAR IN CENTER OF FONDATION WALL.

 WHERE REGUIRED, PILL BLOCK SOLID WITH TIFE "S" HORTAR OR 3000 PSI GROUT, USE OF "LOU LET GROUTING" METHOD REQUIRED WHAT FILLING WALLS WITH GROUT AT HEIGHTS OF 5" AND GREATER

AL	NCHOR SPACING AND	EMBEDMENT
WIND ZONE	120 MPH	130 MPH
5PACING	6'-0" O.C.	4'-0' OC.

SEAL ************* 3/7/19

5" INTO MASONRY 1" INTO CONCRETE

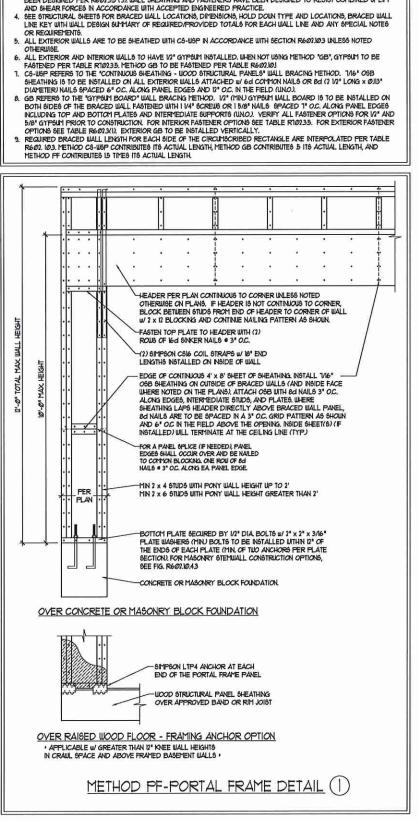


MIND ULTIMATE DESIGN NDATION DETAILS MPH MPH - 130

SCALE- NTS DRAWN BY: JST NGINEERED BY: JES

120]

D-1 FOUNDATION DETAILS



GENERAL WALL BRACING NOTES:

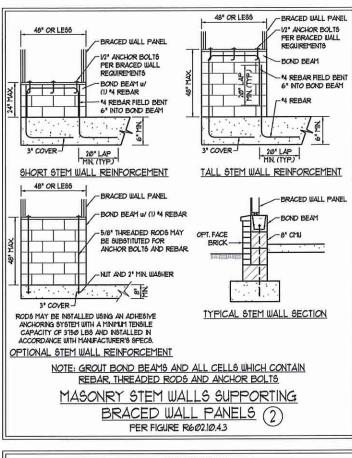
SEE THIS SHEET FOR GENERAL DETAILS. REFIER TO THE 2019 NORCE FOR ADDITIONAL INFORMATION AS NEEDED.

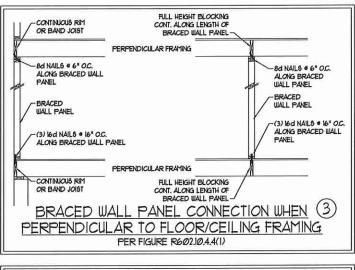
BRACED EXTERIOR WALLS SUPPORTING ROOF TRUSSES AND RAFTERS, INCLUDING STORIES BELOW THE TOP FLOOR, HAVE

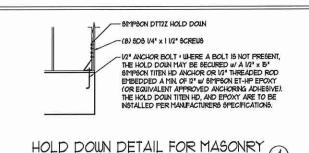
BEEN DESIGNED PER RADI 35 (3), WALL SHEATHING AND FASTENERS HAVE BEEN DESIGNED TO RESIST COMBINED UPLIFT

WALL BRACING DESIGNED IN ACCORDANCE WITH CHAPTER 6 OF THE 2018 NC RESIDENTIAL BUILDING CODE (NCRC).

TABLES AND FIGURES REFERENCED ARE FROM THE 2010 NCRC.

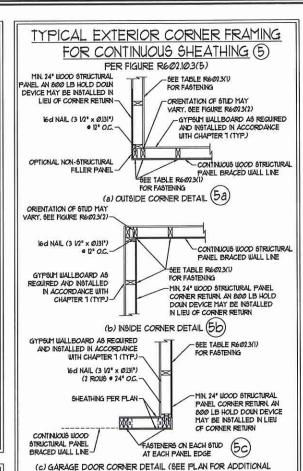






FOUNDATION OR MONOLITHIC SLAB

· APPLICABLE ONLY WHERE SPECIFIED ON PLAN ·



STRUCTURAL INFORMATION OR ALTERNATE CONFIGURATIONS)

BRACED WALL PANEL CONNECTION WHEN

ADDITIONAL FRAMING

BRACED WALL PANEL

MEMBER DIRECTLY ABOVE

BY NAIL B . 6" OC ALONG

BRACED WALL PANEL

BRACED WALL PANEL

(3) 16d NAILS . 16" OC.

ADDITIONAL FRAMING

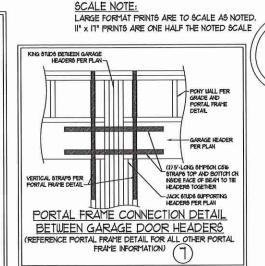
BRACED WALL PANEL

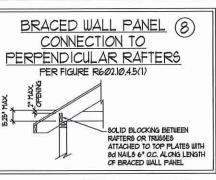
MEMBER DIRECTLY BELOW

ALONG BRACED WALL PANEL

PARALLEL TO FLOOR/CEILING FRAMING

PER FIG. R602 10 4.4(2)





BILL HEIGHT PLOCKING &

16" O.C. ALONG LENGTH OF BRACED WALL PANEL

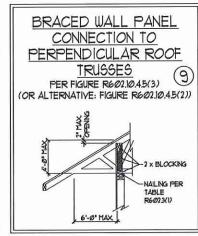
TOE NAIL (3) 8d NAILS AT

EA BLOCKING MEMBER

BRACED WALL PANEL

(3) IEC NAILS . IE OC.

AT EA BLOCKING



CALE 1/4" - 1'0" DRAWN BY JST GINEERED BY-JST

O Z S

S wade PHON

DESIGN WIND S S AND DETAILS

MPH ULTIMATE D BRACING NOTES

MPH - 130 | WALL F

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D-2 BRACED WALL NOTES AND DETAILS AND PF DETAILS

This sealed page is to be used in conjunction with a full plan set engineered by J.S. Thompson Engineering, Inc. only. Use of this individual sealed page within architectural pages or shop drawings by others is a punishable offense under N.C. Statute § 89C-23

CONTINUOUS RIM OR BAND JOIST

8d NAILS . 6" O.C. ALONG

BRACED WALL PANEL

BRACED WALL PANEL

(3) 16d NAILS . 16" OC.

ALONG BRACED WALL PANEL

CONTINUES RIM III/ FINGER

JOISTS OR DBL. BAND JOIST

- (2) led NAILS EA SIDE FULL HEIGHT BLOCKING & 16" O.C. ALONG LENGTH OF BRACED WALL PANEL 33736 G. 3/7/19

SCALE NOTE:

LARGE FORMAT PRINTS ARE TO SCALE AS NOTED. II" x IT" 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 1-JOIST OR FLOOR/ROOF TRUSS LAYOUT DESIGN AND ACCURACY
- 2. ALL CONSTRUCTION SHALL CONFORM TO THE LATEST REQUIREMENTS OF THE NORTH CAROLINA RESIDENTIAL CODE (NCRC), 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 CONTRACTORS FAILURE TO CARRY OUT THE CONSTRUCTION WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
- 3. STRUCTURAL DESIGN BASED ON THE PROVISIONS OF THE NORG. 2018 EDITION (R3014 R301.1)

DESIGN CRITERIA:	LIVE LOAD (PSF)	DEAD LOAD (PSF)	DEFLECTION (IN)		
ATTIC WITH LIMITED STORAGE	20	10	L/240 (L/360 W/ BRITTLE FNISHES)		
ATTIC WITHOUT STORAGE	10	10	L/360		
DECKS	40	lø	L/36Ø		
EXTERIOR BALCONIES	40	10	L/36Ø		
FIRE ESCAPES	40	10	L/36Ø		
HANDRAILS/GUARDRAILS	200 LB OR 50 (PLF)	10	L/36Ø		
PASSENGER VEHICLE GARAGE	50	10	L/36Ø		
ROOMS OTHER THAN SLEEPING ROOM	40	1Ø	L/36Ø		
BLEEPING ROOMS	30	10	L/360		
STAIRS	40	1Ø	L/36Ø		
WIND LOAD	(BASED ON TABLE R3Ø12(4) WIND ZONE AND EXPOSURE)				
GROUND SNOW LOAD: Pg	20 (PSF)				
GROUND SNOW LOAD: Pg	20 (PSF)				

- I-JOIST SYSTEMS DESIGNED WITH 12 PSF DEAD LOAD AND DEFLECTION (IN) OF L/480
- FLOOR TRUSS SYSTEMS DESIGNED WITH IS PSF DEAD LOAD
- FOR 115 AND 120 MPH WIND ZONES, FOUNDATION ANCHORAGE 15 TO COMPLY WITH SECTION R40316 OF THE NORC, 2016 EDITION, FOR 130 MPH, 140 MPH, AND 150 MPH WIND ZONES, FOUNDATION ANCHORAGE 15 TO COMPLY WITH SECTION 4504 OF THE NORC, 2018 EDITION.
- 5. ENERGY EFFICIENCY COMPLIANCE AND INSULATION VALUES OF THE BUILDING TO BE IN ACCORDANCE WITH CHAPTER II OF THE NORC, 2018 EDITION

FOOTING AND FOUNDATION NOTES

- L FOUNDATION DESIGN BASED ON A MINIMUM ALLOWABLE BEARING CAPACITY OF 2000 PSF. CONTACT GEOTECHNICAL ENGINEER IF BEARING
- 2. FOR ALL CONCRETE SLABS AND FOOTINGS, THE AREA WITHIN THE PERIMETER OF THE BUILDING ENVELOPE SHALL HAVE ALL VEGETATION, TOP SOIL AND FOREIGN MATERIAL REMOVED. FILL MATERIAL SHALL BE FREE OF VEGETATION AND FOREIGN MATERIAL. THE FILL SHALL BE COMPACTED TO ASSURE UNIFORM SUPPORT OF THE SLAB, AND EXCEPT WHERE APPROVED, THE FILL DEPTHS SHALL NOT EXCEED 24' FOR CLEAN SAND OR GRAVEL. A 4' THICK BASED COURSE CONSISTING OF CLEAN GRADED SAND OR GRAVEL SHALL BE PLACED. A BASE COURSE IS NOT REQUIRED WHERE A CONCRETE SLAB IS INSTALLED ON WELL-DRAINED OR SAND-GRAVEL MIXTURE SOILS CLASSIFIED AS GROUP I, ACCORDING TO THE UNITED BOIL CLASSIFICATION SYSTEM IN ACCORDANCE WITH TABLE R405J OF THE NORC, 2018 EDITION.
- 3. PROPERLY DEWATER EXCAVATION PRIOR TO POURING CONCRETE WHEN BOTTOM OF CONCRETE 6LAB IS AT OR BELOW WATER TABLE. IF APPLICABLE, 3/4" - I" DEEP CONTROL JOINTS ARE TO BE SAILED WITHIN 4 TO 12 HOURS OF CONCRETE FINISHING AND WALL LOCATIONS HAVE
- CONCRETE SHALL CONFORM TO SECTION R4022 OF THE NORG, 2018 EDITION. CONCRETE RENFORCING STEEL TO BE ASTM A615 GRADE 60. WELDED WIRE FABRIC TO BE ASTM AUS. MAINTAIN A MINIMM CONCRETE COVER AROUND REPORTING STEEL OF 3" IN FOOTINGS AND I IV" IN SLABS. FOR POWRED 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 I 1/2" FOR "5 BARS OR SMALLER, AND NOT LESS THAN 2" FOR "6 BARS OR LARGER.
- 5. MASONRY UNITS TO CONFORM TO ACE 530/ASCE 5/TMS 401, MORTAR SHALL CONFORM
- THE UNSUPPORTED HEIGHT OF MASONRY PIERS SHALL NOT EXCEED FOUR TIMES THEIR LEAST DIMENSION FOR UNFILLED HOLLOW CONCRETE MASONRY UNITS AND TEN TIMES THEIR LEAST DIMENSION FOR SOLID OR SOLID FILLED PIERS, PERS MAY BE FILLED SOLID WITH CONCRETE OR TYPE M OR 5 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.
- 8. ALL CONCRETE AND MASONRY FOUNDATION WALLS ARE TO BE CONSTRUCTED IN ACCORDANCE WITH THE PROVISIONS OF SECTION R464 OF THE NORC, 2018 EDITION OR IN ACCORDANCE WITH ACI 319, ACI 332, NOMA TR68-A OR ACE 530/ASCE 5/TMS 402. MASONRY FOUNDATION WALLS ARE TO BE REINFORCED PER TABLE R4041X1), R4041X2), R404(X3), OR R4041X4) OF THE NCRC, 2019 EDITION. CONCRETE FOUNDATION WALLS ARE TO BE REINFORCED FER TABLE R4041/K5) OF THE NCRC, 2018 EDITION. STEP CONCRETE FOUNDATION WALLS TO 2 x 6 FRAMED WALLS AT 16" OC WHERE GRADE PERMITS (INO).

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FRAMING NOTES

- LALL FRAMING LUMBER SHALL BE 12 SPF MINIMUM (Fb = 815 PS), Fv = 315 PS), E = 16000000 PS)) UNLESS NOTED OTHERWISE (UNO). ALL TREATED LUMBER SHALL BE 12 SYP MINIMUM (Fb = 915 PSI, Fv = 115 PSI, E = 16000000 PSI) UNLESS NOTED OTHERWISE (UNO)
- 2. LAMINATED VENEER LUMBER (LVL.) SHALL HAVE THE FOLLOWING MINIMUM PROPERTIES: FD +2600 PSI, Fv + 285 PSI, E + 1900000 PSI. LAMINATED STRAND LUMBER (LSL) SHALL HAVE THE FOLLOWING MINIMUM PROPERTIES: Pb = 2325 P81, Fv = 310 P81, E = 1550000 P81. PARALLEL STRAND LUMBER (PSL) UP TO 1" DEPTH SHALL HAVE THE FOLLOWING MINIMUM PROPERTIES: Fc = 25000 PSI, E +18000000 PSI PARALLEL STRAND LUMBER (PSL) MORE THAN 1" DEPTH SHALL HAVE THE FOLLOWING MINIMUM PROPERTIES: Fc = 2900 PSI, E = 20000000 PSI. INSTALL ALL CONNECTIONS PER MANUFACTURER'S SPECIFICATIONS.
- STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING ASTM SPECIFICATIONS

W AND WT SHAPES: ASTM ASSS CHANNELS AND ANGLES: ASTM A36 PLATES AND BARS: HOLLOW STRUCTURAL SECTIONS: ASTM A500 GRADE B ASTM A53, GRADE B, TYPE E OR S

4. STEEL BEAMS SHALL BE SUPPORTED AT EACH END WITH A MINIMUM BEARING LENGTH OF 3 1/2" AND FULL FLANGE WIDTH (UNO). PROVIDE SOLID BEARING FROM BEAM SUPPORT TO FOUNDATION. BEAMS SHALL BE ATTACHED AT THE BOTTOM FLANGE TO EACH SUPPORT AS FOLLOUIS (LINO)

A WOOD FRAMING (2) I/2" DIA x 4" LONG LAG SCREUS (2) 1/2" DIA x 4" WEDGE ANCHORS B. CONCRETE (2) 1/2" DIA x 4" LONG SIMPSON TITEN HD ANCHORS C. MASONRY (FULLY GROUTED)

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) ROUS OF SELF TAPPING SCREUS & 16" O.C. OR (2) ROUS OF V2" DIAMETER BOLTS . IS 'OC. IF 1/2" BOLTS ARE USED TO FASTEN THE NAILER, THE STEEL BEAM SHALL BE FABRICATED W/ (2) ROUS OF 9/16" DIAMETER

- 5. SQUARES DENOTE POINT LOADS WHICH REQUIRE SOLID BLOCKING TO GIRDER OR FOUNDATION. SHADED SQUARES DENOTE POINT LOADS FROM ABOVE WHICH REQUIRE SOLID BLOCKING TO SUPPORTING MEMBER BELOW.
- 6. ALL LOAD BEARN'S HEADERS TO CONFORM TO TABLE R602.7(1) AND R602.7(2) OF THE NCRC, 2018 EDITION OR BE (2) 2 x 6 WITH (1) JACK AND (1) KING STUD EACH FND (INO) ILHICHEVER 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 R602.75 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 I 1/2" MINIMUM BEARING (UNO). ALL BEAMS OR GIRDER TRUSSES PERPENDICULAR TO WALL AND SUPPORTED BY MORE THAN (3) STUDS OR OTHER NOTED COLUMN ARE TO BEAR FULLY ON SUPPORT COLUMN FOR ENTIRE WALL DEPTH (UNO). BEAM ENDS THAT BUTT INTO ONE ANOTHER ARE TO EACH BEAR EQUAL LENGTHS (UNO).
- 8. FLITCH BEAMS SHALL BE BOLTED TOGETHER USING 1/2" DIAMETER BOLTS (ASTM A3/01) WITH WASHERS PLACED AT THREADED END OF BOLT. BOLTS SHALL BE SPACED AT 24" CENTERS (MAXIMUM), AND STAGGERED AT TOP AND BOTTOM OF BEAM (2" EDGE DISTANCE), WITH (2) BOLTS LOCATED AT 6" FROM EACH END (UNO).
- 9. ALL I-JOIST OR TRUSS LAYOUTS ARE TO BE IN CONFLIANCE WITH THE OVERALL DESIGN SPECIFIED ON THE FLANS. ALL DEVIATIONS ARE TO BE BROUGHT TO THE ATTENTION OF THE ENGINEER OF RECORD PRIOR TO INSTALLATION.
- 10. 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 R600.10
- 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. INSTALL BLOCKING BETWEEN JOISTS OR TRUSSES FOR POINT LOAD SUPPORT FOR ALL POINT LOADS ALONG OFFSET LOAD LINES.
- 12. FOR ALL HEADERS SUPPORTING BRICK VENEER THAT ARE LESS THAN 8'-0" IN LENGTH, REST A 6" x 4" x 5/16" STEEL ANGLE WITH 6" MINIMUM EMBEDMENT AT SIDES FOR BRICK SUPPORT (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 ECREUS AT 12" O.C. STAGGERED FOR BRICK SUPPORT. FOR ALL BRICK SUPPORT AT ROOF LINES, BOLT A 6" x 4" x 5/16" STEEL ANGLE TO (2) 2 x 10 BLOCKING INSTALLED W (4) 12d NAILS EA, PLY BETWEEN WALL STUDS WITH (2) ROWS OF 1/2" LAG SCREWS AT 12" O.C. STAGGERED AND IN ACCORDANCE WITH SECTION RT03,821 OF THE NCRC, 2018 EDITION
- 13. FOR STICK FRAMED ROOFS: CIRCLES DENOTE (3) 2 x 4 POSTS FOR ROOF MEMBER SUPPORT. HIP SPLICES ARE TO BE SPACED A MINIMUM OF 8'-0'. FASTEN MEMBERS WITH THREE ROWS OF 12d NAILS AT 16" O.C. FRAME DORMER WALLS ON TOP OF DOUBLE OR TRIPLE RAFTERS AS
- 14. FOR TRUSSED ROOFS: FRAME DORMER WALLS ON TOP OF 2 x 4 LADDER FRAMING AT 24" O.C. BETWEEN ADJACENT ROOF TRUSSES. STICK FRAME OVER-FRAMED ROOF SECTIONS WITH 2 x 8 RIDGES, 2 x 6 RAFTERS AT 16" O.C. AND FLAT 2 x 10 VALLEYS (UNO).
- 5. ALL 4 x 4 AND 6 x 6 POSTS TO BE INSTALLED WITH 1000 LB CAPACITY UPLIFT CONNECTORS TOP AND BOTTOM (UNO.) POSTS MAY BE SECURED USING ONE SIMPSON HE OR LISIZ UPLIFT CONNECTOR FASTENED TO THE BAND AT THE BOTTOM AND THE BEAM AT THE TOP OF EACH POST. ONE 16" SECTION OF SIMPSON CS16 COIL STRAPPING WITH (8) 8d HDG NAILS AT EACH END MAY BE USED IN LIEU OF EACH TWIST STRAP IF DESIRED. FOR MASONRY OR CONCRETE FOUNDATION USE SIMPSON POST BASE.

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SPEED WIND (130 MPH ULTIMATE DESIGN V STANDARD STRUCTURAL NO MPH

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> S-0 STRUCTURAL NOTES

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