EMBARK H&H HOMES

PLAN REVISIONS

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

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

09-14-18 STANDARD CLIENT CHANGES PER CLIENT WALK-THRU NOTES DATED 08-30-18, CHANGES INCLUDE BUT NOT LIMITED TO THE FOLLOWING: REMOVE OPT, LAWDRY TUB, REMOVE KITCHEN ISLAND KNEEWALLS, CHANGE KITCHEN ISLAND COUNTER TOP TO HAVE IZ! OVERHANGS, REMOVE OHC. ABOYE FRIDGE, ADD PLUMBING DROP UNDER CABINET, REMOVE GARAGE SERVICE DOORS, REMOVE OPT. RAILING AT STAIRS, REVISE ALL SECONDARY CLOSETS AND LINENS TO HAVE BI-FOLD DOORS, REVISE OPT. E-CENTER TO HAVE 18" DRAILER 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.Y. IN OWNERS 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 OVERHANG.

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

PADIPATIO.
VERFIED HDR. HGT. WAS AT LEAST 1'-0' ON ALL EXTERIOR WINDOWS. VERIFIED ROOM SIZES AND DIMENSIONS. CHANGED WASHER, DRYER, AND REFRIGERATOR TO OPTIONAL COMPONENTS. VERFIED 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, DBL 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. REVISED CUISHEETS

	1		
HEATED AREAS	ELEV 'A'	ELEV 'B'	ELEV 'C'
MAIN FLOOR	1724 SQ. FT.	7724 SQ. FT.	1724 SQ. FT
TOTAL HEATED SF	1724 SQ. FT.	724 SQ. FT.	1724 SQ. FT
UNHEATED AREAS			
1 CAR GARAGE	249 SQ, FT,	249 SQ, FT,	249 SQ. FT.
COVERED AREAS	·		
FRONT PORCH	63 SQ, FT.	63 SQ. FT.	63 SQ. FT.
UNCOVERED AREAS			
OPTIONAL PATIO	80 SQ. FT.	60 SQ. FT.	80 SQ. FT.
OPTIONAL EXTENDED PATIO	100 SQ, FT,	00 SQ. FT.	100 SQ. FT.
UNHEATED OPTIONS			
OPTIONAL 1-CAR GARAGE	240 SQ. FT.	240 SQ. FT.	240 SQ. FT.

ISSUANCE OF PLANS FROM THIS DRAFFERS OFFICE SHALL NOT RELIEVE THE BUILDER OF RESPONSIBILITY TO REVEN AND VERREY ALL NOTES, DYENHOUS, AND ACHERENCE TO APPLICABLE BUILDING CODES FROM TO COPTENZED OF ANY CONSTRUCTION.

ANY DISCREPANCY OF ENERGY INVESTED DESINGS, OR ACHERENCE TO APPLICABLE BUILDING CODES SHALL BE BRADWINT TO THE ATTENTION OF THE DRAFFERS OFFICE HOR CORRECTION BEFORE CONTENZED IN ANY CASHINGTON.

ANY REVIOUS OR CHANGES, NOT RELATED TO THE CORRECTION OF ERRORS THAT ARE MADE AFTER THE FRAM, PLANS HAVE DEED CONTENZED WILL BE SUBJECT TO ADDITIONAL FLESS.

IF ANY PROPEDIATIONS ARE THERE TO THE THE PLANS THAT OTHER THAN THE DRAFFERS OFFICE, THE DRAFFER SHALL NOT BE HELD RESPONSIBLE.

JOB HUMBER 27167,03 CAD FILE NAME EMBARK-ISSUED 11-08-17

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DRAWINGS ON II"xIT"

SHEET ARE ONE HALF THE SCALE NOTED

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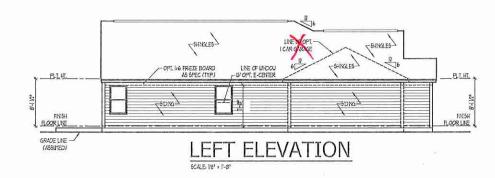
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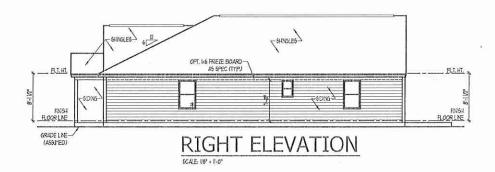
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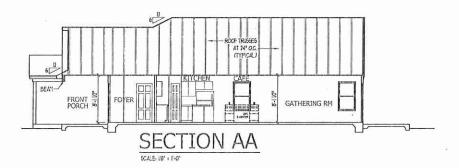
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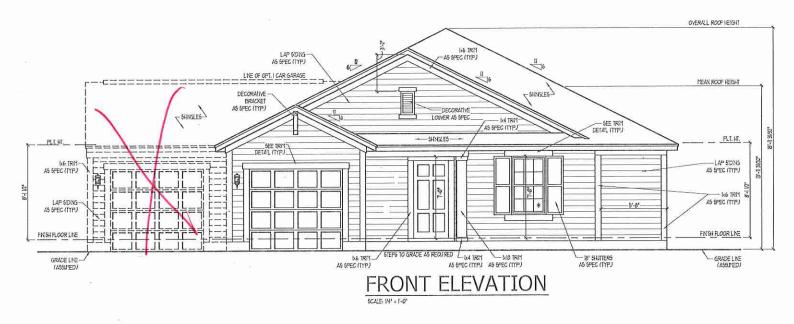


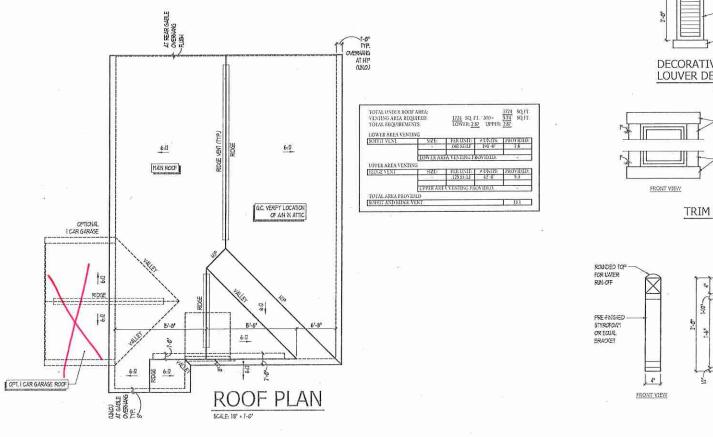


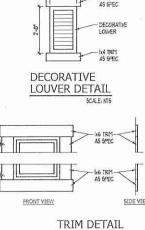
ISSUACE OF PLAS FROM THE DRAFTERS OFFICE SHALL NOT RELEVE THE BUILDER OF
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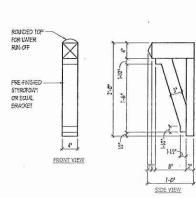
ANY DISPERSANCY OF ERROR NIVINES, DIPONSIONS, OR ADDRESSIVE TO APPLICABLE BUILDING
CODES SHALL BE BROWNED TO THE ATTENTION OF THE DRAFTER'S OFFICE FOR CORRECTION BEFORE
COTTENCE FOR OR ANY CONSTRUCTION.

ANY REMSIONS OR CHAVES, NOT FELLADED TO THE CORRECTION OF BERRORS THAT ARE THOSE
AFTER THE THALE PLANS HAVE BEEN COPILETED SHALL BE SUBJECT TO ADDITIONAL THES.
FAIR THOSE HALD SHAVE BEEN COPILETED SHALL BE SUBJECT TO ADDITIONAL THESE
FAIR THOSE HALD SHAVE BEEN COPILETED SHALL BE SUBJECT TO ADDITIONAL THESE
FAIR THOSE HALD SHAVE HOSE TO THESE PLANS BY ANY OTHER PARTY OTHER THAN THE
DRAFTERS OTHER, THE DRAFTER SHALL NOT BE HELD RESPONSIBLE.









BRACKET DETAIL

ELEVATION "A" - TRADITIONAL GARAGE RIGHT



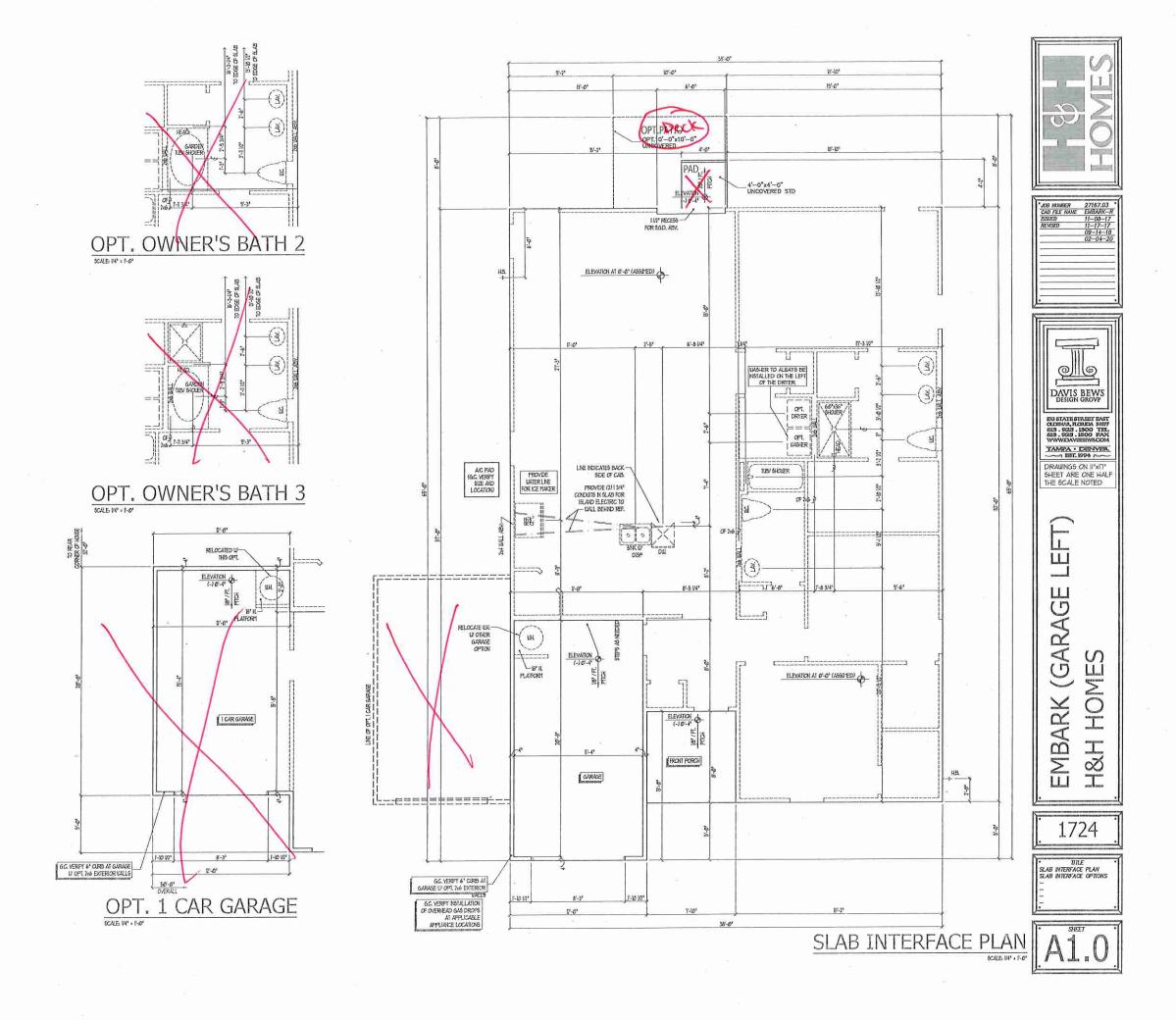




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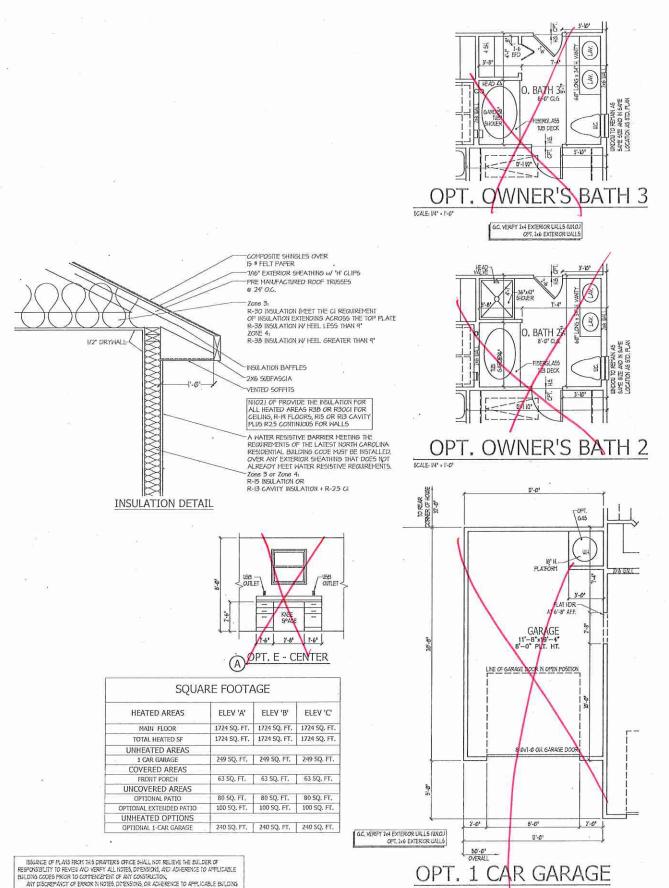
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• ITTLE
FRONT ELEVATION
REAR AND SIDE ELEVATIONS
SECTIONAL
ROOF PLAN
MISC DETAILS



ISSUACE OF PLAS FROM THIS DRAFFEKS OFFICE SHALL NOT RELEVE THE BUILDER OF REFORMBLINT TO REVEN AND VEREY ALL NOTES DYEMBORS, AND ADERBOILE TO APPLICABLE BUILDING CODES FROM TO COTTENEEDED OF ANY DISCREPANCY OF BROKEN IN NOTES, DYEMBORS, OR ADERBOILE OF APPLICABLE BUILDING CODES SHALL BE BROWNED TO THE ATTENDION OF THE DRAFFERS OFFICE FOR CORRECTION BEFORE COYPELETED OF ANY CONSTRUCTION.

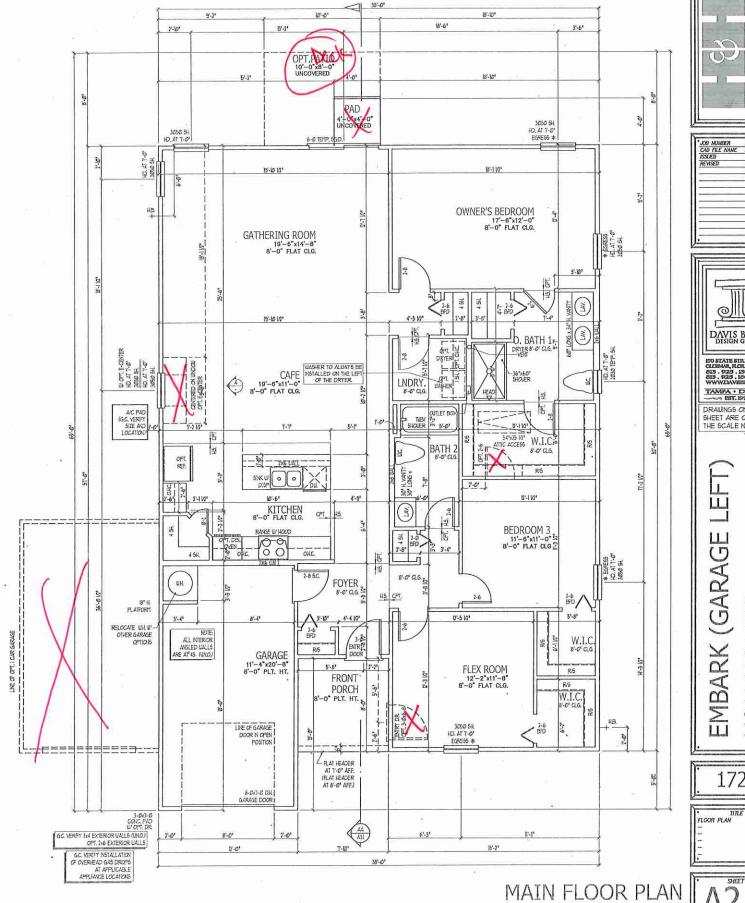
ANY PENSONS OR CHARLES, NOT RELIED TO THE CORRECTION OF BROKES THAT ARE THADE AFTER THE FINAL PLASS HAVE BEEN COPILETED SHALL BE BUILDED TO ADOITIONAL TIES. IF ANY TODE CATIOS OF THOS TO THESE PLASS BY ANY OTHER THAN THE DRAFFERS OFFICE, THE DRAFFER SHALL NOT BE HELD RESPONDED.



ANY DISCREPANCY OF EMOUR IN KINES, DYPENSIONS, OR KOMERNICE TO APPLICABLE BILLIONS CODES SHALL BE BROAKEN TO THE ATTENDION OF THE DRAINING FOR THE ORIGINATE OF THE CONSTRUCTION.

WIT REVISIONS OF CHAMES AND PELLATED TO THE CONNECTION OF EMOURS THAT ARE THAD IN TRAVELY OF CHAMES AND PELLATED SHALL BE SUBJECT TO ADDITIONAL FIELS.

FAIR TOPOCHAMICS ARE HADE TO THESE FAIRS OF THAT OTHER PARTY OTHER THAN THE DRAFTER'S OFFICE, THE DRAFTER SHALL NOT BE HELD RESPONSIBLE.



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

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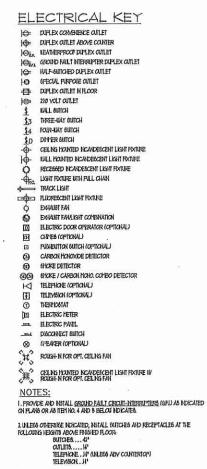
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1. ALL BYSKE DETECTORS BULL BE HARDINGED INTO AN ELECTRICAL POWER SCIENCE AND BUILL BE EXAMPLED WITH A MONTORED BATTERY BACKLE. PROVIDE AND INSTALL LOCALLY CERTIFED (MYSSE DETECTORS)

4. AL BA AD 26A RECEPTACLES IN ALEFFIS ROCKS, PAILY ROCKS, ONNS ROCKS, LIMBS ROCKS, PALORS, LEWARES, DESS, AUROCKS, RECRESION ROCKS COSETS, VALLIANS, APD STARK RESS IELL REASE A COMENTICK THE AFGL DEVICE AND TAMPER-PROCE RECEPTACLES FER NEC. 2014 46611 AND 46611

5, ALL BA AND 20A BOY RECEPTACLES LOCATED IN THE GARAGE AND UTLITY ROOMS GULL BE GECL PROTECTED (GEL).

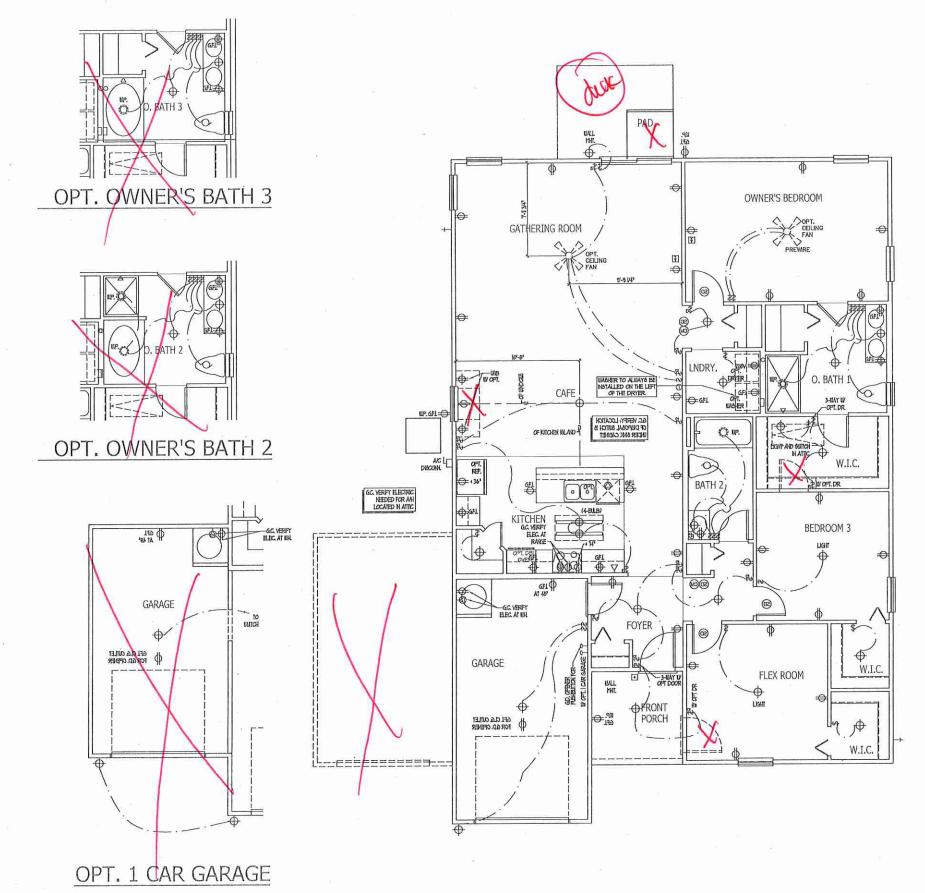
6. IT IS THE RESPONSIBILITY OF THE LICENSED ELECTRICAN TO BESTEE THAT ALL ELECTRICAL LOOK IS NIVELL COPPLIANCE LITHIN PP.A. TO, NEC. 201, PECR. - 5TH ESTIGAL (1914), AND ALL APPLICABLE LOCAL STANDARDO, CODES, AND GRONANCES,

1 EVERY BUILDING HAVING A FOUNT-REL-BURNING HEATER OR APPLIANCE. HEPLACE, OR AN ATTACHED GURACE GUAL HAVE AN OPERATIONAL CARRICAL HOLONDE DETECTOR WITHLED WHICH TO HELT OF EACH ROOM WED FOR GLEEPING PREPOSES.

A JLATÍS GULL RECEYE THER PROTATT POUR FICH THE DUILDIS URBIS LIEN BUCH URBIS DE BERNED RECHT THE LOCAL POUR UTILITY, COCH JUAPAS SULL HAVE BATTRET PALOPE COMBANION ENECEMBER HOUSE ALARIS MULL EN LISTED OR LAPELED BY A HANDAVILLY RECORDED TESTIES L'ADVANCORY.

MALAYCE OF FLANN FROM THIS DRAFTER'S OFFICE SHALL NOT RELEVE THE BUILDER OF

MAJACE OF PLAN RICH THIS DEVELOPE CHICA LIVIT FELLER THE BALDER OF FERFORMENT TO EXTERN ON BERN ALL MOTES, DEMENDIA, AND DATESTATE OF AFFILIABLE BALDING COCES FROM TO CONTRECTED OF ANY CONTRECTION. ANY DEOGRAPHICT OF ERROR IN HOUSE, DETENDING, OR ADMEDIATE TO AFFILIABLE BALDING COCHE MALL BE EXCUSATED ON BE ATTENDED ON THE TRAVETERS OFFICE CORRECTION EXPONE COCHEMBERT OF ANY CONTRECTION. ANY EXPOSED OR CONTRECTION. ANY FEATURED TO THE CORRECTION OF ERRORS THAT ARE MODE. FAIR TRAVELORISMS ARE HAVE TO THESE THAN BY THAT OFFICE PARTY OTHER THAN THE DRAFTERS OFFICE, THE DRAFTER SHALL NOT SEE HELD RESPONSELE.







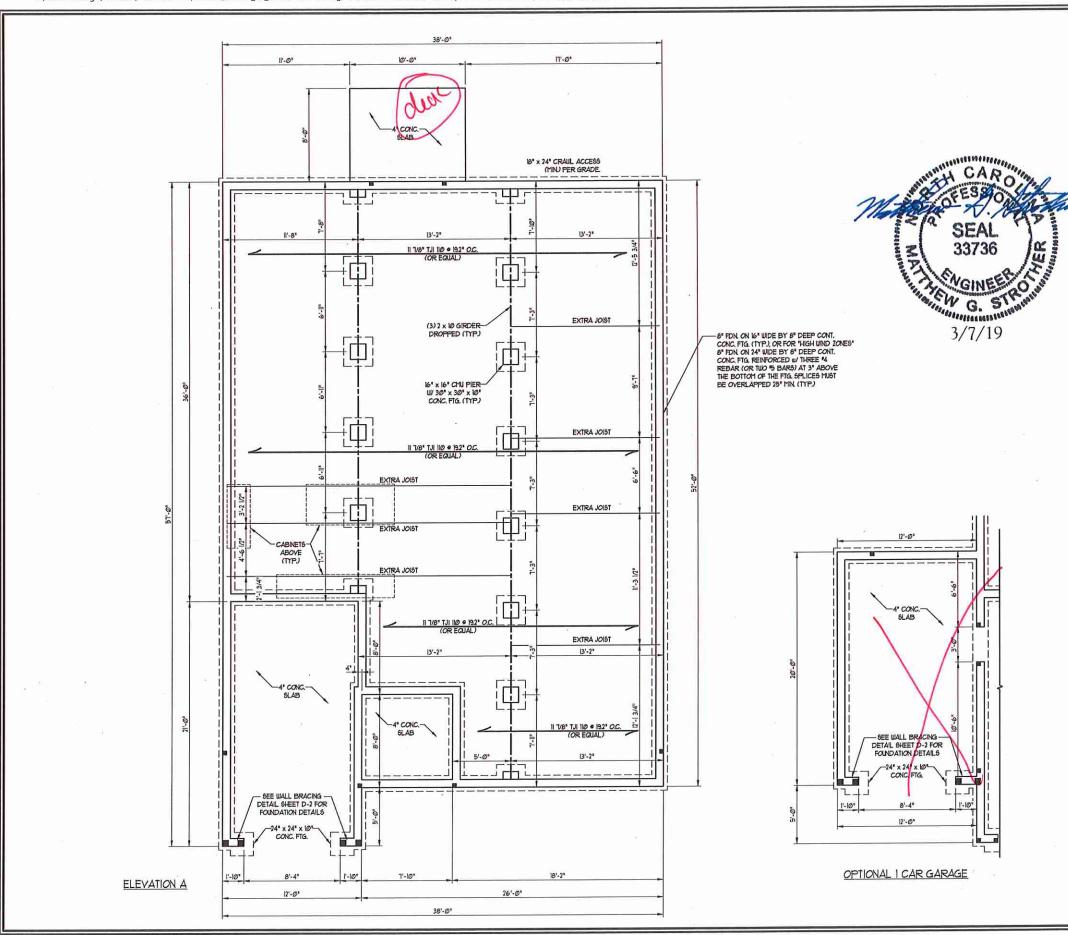


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ELECTRICAL PLAN



SCALE NOTE:

LARGE FORMAT PRINTS ARE TO SCALE AS NOTED. II" x IT" PRINTS ARE ONE HALF THE NOTED SCALE

YANYANYANYANYANY

STRUCTURAL NOTES:

- ALL FRAMING LUMBER TO BE 12 SFF (INO). ALL TREATED LUMBER TO BE 2 SYP (INO) INSTALL AN EXTRA OR DOUBLE JOIST UNDER WALLS PARALLEL
- TO FLOOR JOISTS WHERE NOTED ON THE PLANS. SQUARES DENOTE POINT LOADS
- UHICH REQUIRE SOLID BLOCKING TO GIRDER OR FOUNDATION SHADED PIERS TO BE FILLED
- SOLID.

 NSTALL LADDER WIRE * 16" OC.

 TO SECURE MULTIPLE WYTHE
 FOUNDATION WALLS TOGETHER
- REFER TO NOTES AND DETAIL SHEETS FOR ADDITIONAL STRUCTURAL INFORMATION.

50 MPH ULTIMATE DESKIN WIND SPEED NOTES FOR LESS THAN 30' MEAN ROOF HEIGHT:

- BE IN ACCORDANCE WITH CHAPTER II OF THE NORC, 2018 EDITION.

120 MPH ULTIMATE DESIGN WIND SPEED NOTES FOR LESS THAN 30' MEAN ROOF HEIGHT:

- BIGNETIS BEAL APPLIES ONLY TO STRUCTURAL COMPONENTS. DESPETES SEAL DOES NOT CORT PER SENSIONAL LAYOUT NOW THE PER SEAL DOES NOT CORT PER SEAL DOES NOT CORT PER SEAL DOES NOT CORT PER SEAL DOES NOT DESPETED DE CORT PER SEAL DOES NOT DESPETED DE CORT PER SEAL DOES NOT DE CORT DE
- HEAN ROOF HEIGHT IS LESS THAN 30 FEET. EXTERIOR WALLS DESIGNED FOR 100 HPM
- 4. FEAN BOAT FEISH IN 1280 IMP OF THE I.

 1. DATEROR UILLS DESIGNED FOR 10 FFM.

 1. BUAL CLADONS DESIGNED FOR 10 FFM.

 1. BUAL CLADONS DESIGNED FOR 10 FFM.

 1. ROOF CLADONS DESIGNED FOR 143 FFM.

 1. ROOF LADONS FFM. FOR ROOF PICKED 132 TO 101.

 1. ROOF LADONS TO 141 FFM.

 1. ROOF CONTROL IN 145 FFM. FM.

 1. ROOF CONTROL IN 145 FFM.

 1. ROOF

O Z SOL S OMP

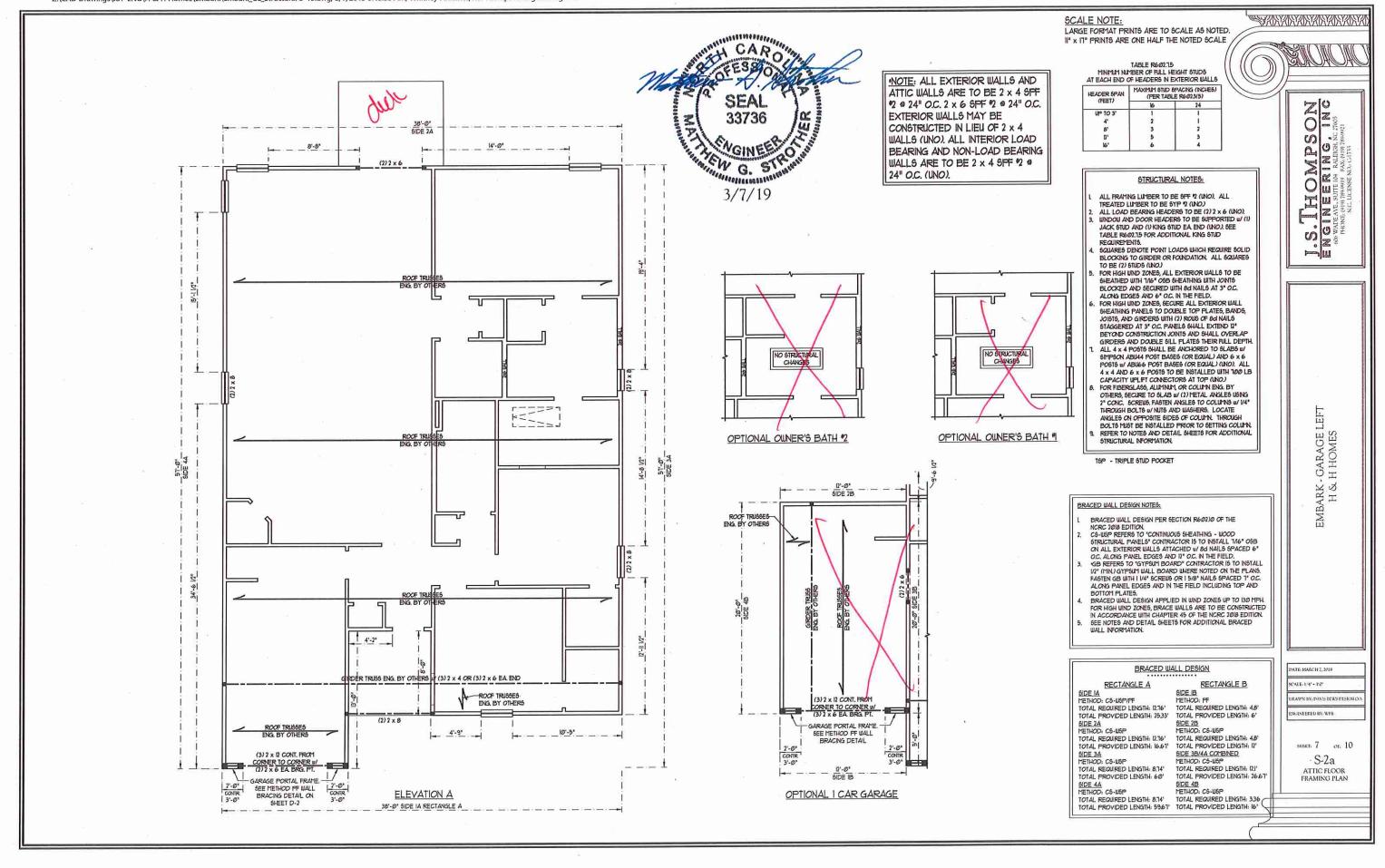
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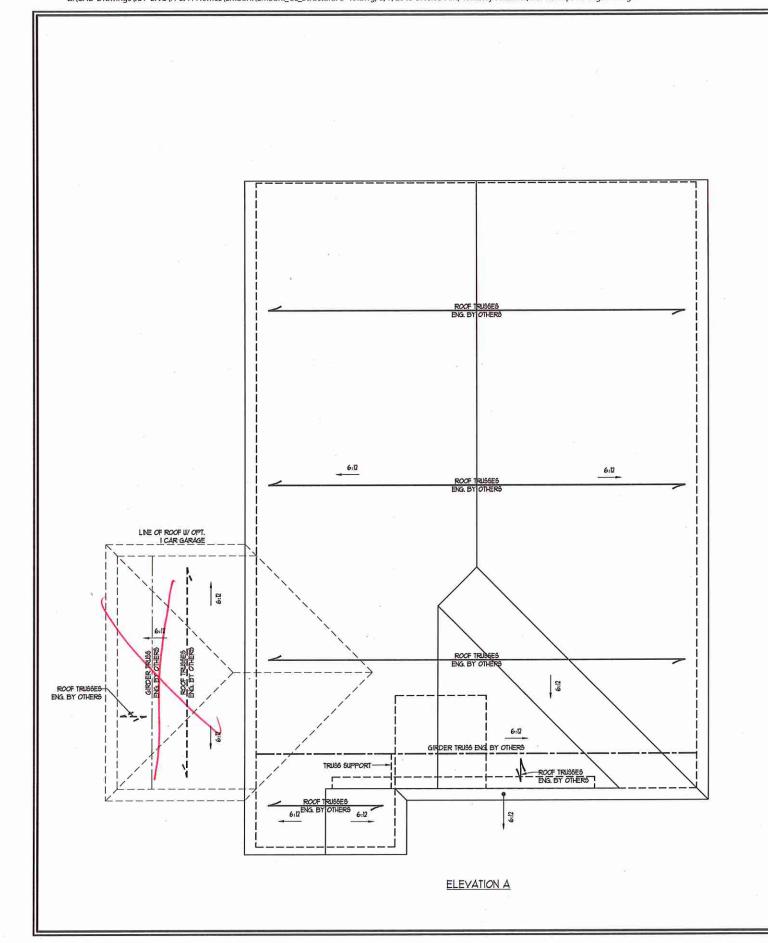
> LEFT EMBARK - GARAGE H & H HOMES

DATE: MARCH 7, 2019 SCALE: 1/4" • 1'4"

RAWN BY DAVIS BEWS PISICE ENGINEERED BY: WFB

SHEET: 1 or: 10 S-1.1a CRAWL FOUNDATION PLAN





SCALE NOTE:

LARGE FORMAT PRINTS ARE TO SCALE AS NOTED.

II" x IT" PRINTS ARE ONE HALF THE NOTED SCALE

ENGINEERING, INC

EMBARK - GARAGE LEFT H & H HOMES

DATE MARCH 7, 2019 SCALE: 1/4" • 110" ENGINEERED BY: WFB

> SHEET: 9 OF: 10 S-3a ROOF FRAMING

STRUCTURAL NOTES:

- STRUCTURAL NOTES:

 ALL FRAMING LUMBER TO BE *2
 SFF (INO).

 CIRCLES DENOTE (3) 2 x 4 POSTS
 FOR ROOF SUPPORT.

 FRAME DOPMER WALLS ON TOP
 OF DOUBLE OR TRIPLE RAFTERS.

 HIP SPLICES ARE TO BE SPACED
 AMIN OF 8°-0°. FASTEN
 MEMBERS WITH THREE ROUS OF
 12d NAILS *6 16° OC. (1779)

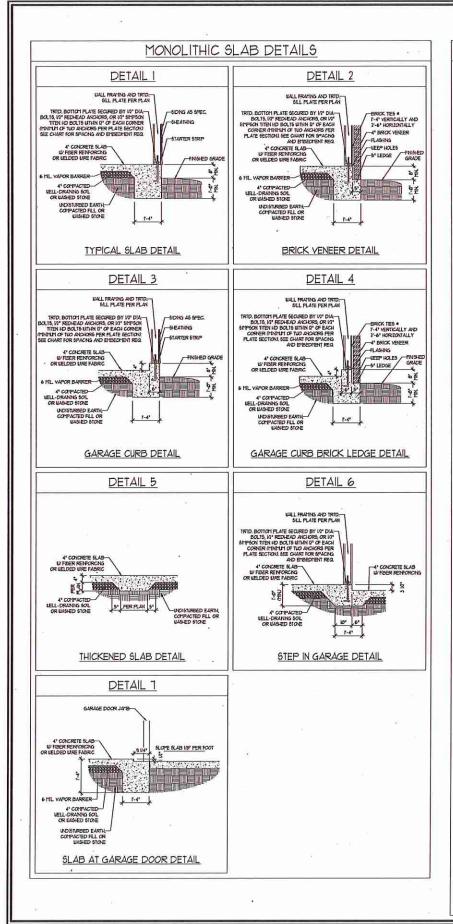
 STICK FRAME OVER-FRAMED
 ROOF SECTIONS WIF 2 x 8 RIDGES,
 2 x 6 RAFTERS *6 16° OC. CAND
 H.AT 2 x 10° VALLEYS OR USE
 VALLEY TRUSSES.

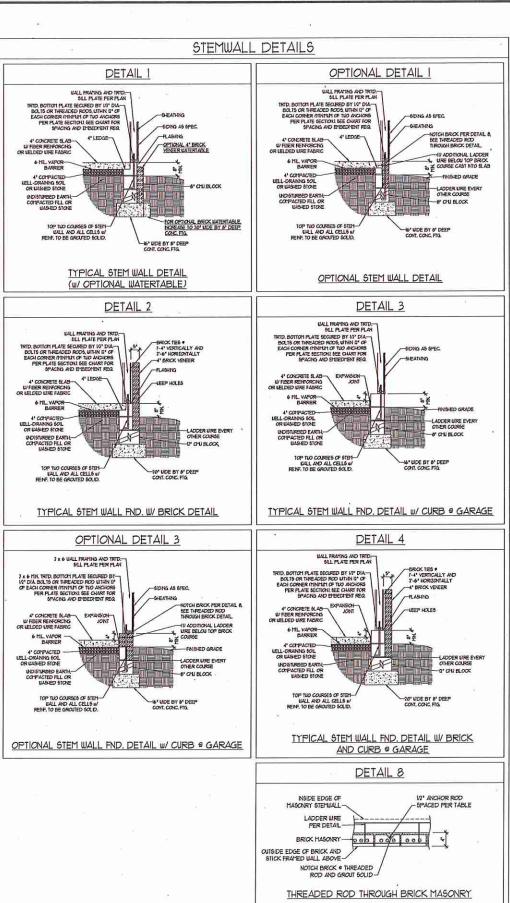
 FASTEN H.AT VALLEYS TO
 RAFTERS OR TRUSSES WITH
 SIMPSON LUZS A HURRICANE TIES 6
 30° OC. MAX. PASS HURRICANE
 TIES THROUGH NOTCH IN ROOF
 SECTIONS WITH A MIN COF (6) 12d
 TOE NAILS.
- TOE NAILS.

 REFER TO SECTION R802.II OF THE 2019 NCRC FOR REQUIRED UPLIFT RESISTANCE AT RAFTERS AND TRUSSES.
 REFER TO NOTES AND DETAIL
- SHEETS FOR ADDITIONAL STRUCTURAL INFORMATION.

EW G. ST

3/7/19





	MASONRY S	TEMWALL SPE	CIFICATIONS		
WALL HEIGHT (FEET)	MASONRY WALL TYPE				
	8° CHU	4" BRICK AND 4" CMU	4" BRICK AND 8" CMJ	מי כאו	
2 AND BELOW	UNGROUTED	GROUT SOLID	UNGROUTED	UNGROUTED	
3	UNGROUTED	GROUT SOLID	UNGROUTED	UNGROUTED	
4	GROUT SOLID	GROUT SOLID u/ "4 REBAR # 48" O.C.	GROUT SOLID	GROUT SOLID #/ "4 REBAR # 64" OC.	
5	GROJT SOLID u/ *4 REBAR # 36* O.C.	NOT APPLICABLE	GROUT SOLID w/ *4 REBAR # 36" O.C.	GROUT SOLID w/ 44 REBAR # 64" O.C.	
6	GROJT SOLID #/ *4 REBAR # 24* O.C.	NOT APPLICABLE	GROUT SOLID w/ 44 REBAR # 24" O.C.	GROUT SOLID # '4 REBAR # 64' O.C.	
AND GREATER	ENGINEERED DESIGN BASED ON SITE CONDITIONS				

STRUCTURAL NOTES:

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

 7. TIE HULTIPLE WITHES TOGETHER WITH LADDER WIFE AT 16" OC. VERTICALLY.

 8. CHART APPLICABLE FOR HOUSE FONDATION QULY, CONSULT EVENTEER FOR DESIGN OF GARAGE FONDATION NOT COTYON TO HOUSE.

 8. BACAPILL OF CLEAN 51 / VIT WASHED STONE IS ALLOWABLE.

 8. BACAPILL OF WIELD PRAINED OR SAND GRAVEL INNINES 501.5 (LASSIFICATION STYSTEM IN ACCORDING TO UNIFIED SOILS CLASSIFICATION STYSTEM IN ACCORDING WITH LADER ROBOL OF THE ONE INTERNATIONAL PREDIDENTIAL CODE ARE ALLOWABLE.

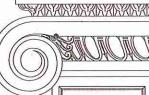
 6. FIREP \$LAS FER 1506.21 AND 1506.22 BASE OF THE 70% INTERNATIONAL RESIDENTIAL CODE ARE ALLOWABLE.

 1. LOCATE REAR OF CHIEF OF FONDATION WALL.

 8. WHERE REQUIRED, FILL BLOCK SOILD WITH TIFFE 15" HORTAR OR 3000 PSI GROUT, USE OF "LOW LEFT GROUNTS" HEIKOT PSI OF 5" AND GREATER.

AN	ICHOR SPACING AND	D EMBEDMENT
WIND ZONE	120 MPH	130 MPH
SPACING	6'-0' OC.	4'-0' OC.
SMBEDMENT	r	5" INTO MASONRY 1" INTO CONCRETE





OZ S S OMPS FRING ENGINEE 606 WADE AVE. SUIT PHONE. (919) 789.

> SPEED WIND MPH ULTIMATE DESIGN FOUNDATION DETAILS 120 MPH - 130

DATE: NOVEMBER 14, 2015 DRAWN BY JST ENGINEERED BY: JES

D-1 FOUNDATION DETAILS 48" OR LESS

48° OR LESS

3" COVER-

RODS MAY BE INSTALLED USING AN ADHESIVE

ANCHORING SYSTEM WITH A MINIMUM TENSILE

CAPACITY OF 3150 LBS AND INSTALLED IN

ACCORDANCE WITH MANUFACTURER'S SPECE

OPTIONAL STEM WALL REINFORCEMENT

BRACED WALL PANEL

-1/2" ANCHOR BOLTS

REQUIREMENTS

(I) 4 REBAR

SHORT STEM WALL REINFORCEMENT

PER BRACED WALL

4 REBAR FIELD BENT

- BRACED WALL PANEL

BE SUBSTITUTED FOR

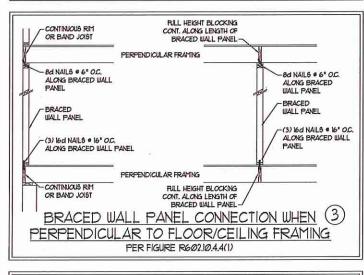
- NUT AND 2" MIN. WASHER

-5/8" THREADED RODS MAY

ANCHOR BOLTS AND REBAR

6" INTO BOND BEAM

GENERAL WALL BRACING NOTES: UALL BRACING DESIGNED IN ACCORDANCE WITH CHAPTER 6 OF THE 2018 NC RESIDENTIAL BUILDING CODE (NCRC). TABLES AND FIGURES REFERENCED ARE FROM THE 2018 NORC. SEE THIS SHEET FOR GENERAL DETAILS. REFER TO THE 2018 NORC FOR ADDITIONAL INFORMATION AS NEEDED. BRACED EXTERIOR WALLS SUPPORTING ROOF TRUSSES AND RAFTERS, INCLUDING STORIES BELOW THE TOP FLOOR, HAVE BEEN DESIGNED PER R60235 (3), WALL SHEATHING AND FASTENERS HAVE BEEN DESIGNED TO RESIST COMBINED UPLIFT AND SHEAR FORCES IN ACCORDANCE WITH ACCEPTED ENGINEERED PRACTICE. SEE STRICTURAL SHEETS FOR ERACED HIM I LOCATIONS DIMENSIONS HOLD DOWN TYPE AND LOCATIONS BRACED HIM I LINE KEY WITH WALL DESIGN SUMMARY OF REQUIRED/PROVIDED TOTALS FOR EACH WALL LINE AND ANY SPECIAL NOTES OR REQUIREMENTS. 5. ALL EXTERIOR WALLS ARE TO BE SHEATHED WITH CS-USP IN ACCORDANCE WITH SECTION R602103 UNLESS NOTED 6. ALL EXTERIOR AND INTERIOR WALLS TO HAVE 1/2" GYPSUM INSTALLED, WHEN NOT USING METHOD "GIB", GYPSUM TO BE FASTENED PER TABLE R102.35, METHOD GB TO BE FASTENED PER TABLE R6/02/01 CS-USP REFERS TO THE "CONTINUOUS SHEATHING - WOOD STRUCTURAL PAVELS" WALL BRACING METHOD. THIS "OBS SHEATHING IS TO BE INSTALLED ON ALL EXTERIOR WALLS ATTACHED W/ 6d COMMON NAILS OR 8d (2 1/2" LONG x Ø)13" DIAMETER) NAILS SPACED 6" OC. ALONG PANEL EDGES AND 12" OC. IN THE FIELD (UNO.) GB REFERS TO THE "GYPRIM BOARD" WALL BRACK'S METHOD. 1/2" (MIN) GYPRIM WALL BOARD IS TO BE INSTALLED ON BOTH 6IDES OF THE BRACED WALL FASTENED WITH I 1/4" SCREWS OR I 5/6" NAILS. 6PACED TO OC. ALONG PANEL EDGES INCLUDING TOP AND BOTTOM PLATES AND INTERMEDIATE SUPPORTS (UN.O.), VERIFY ALL FASTENER OPTIONS FOR I/2" AND 5/8" GYPSUM PRIOR TO CONSTRUCTION. FOR INTERIOR FASTENER OPTIONS SEE TABLE R10235, FOR EXTERIOR FASTENER REQUIRED BRACED WALL LENGTH FOR EACH SIDE OF THE CIRCUMSCRIBED RECTANGLE ARE INTERPOLATED PER TABLE R602, 103, METHOD CS-USP CONTRIBUTES ITS ACTUAL LENGTH, METHOD GB CONTRIBUTES 5 ITS ACTUAL LENGTH, AND METHOD FF CONTRIBUTES IS TIMES ITS ACTUAL LENGTH. -HEADER PER PLAN CONTINUOUS TO CORNER UNLESS NOTED OTHERUSE ON PLANS. IF HEADER IS NOT CONTINUOUS TO CORNER, BLOCK BETWEEN STUDS FROM BIJD OF HEADER TO CORNER OF WALL. w/ 2 x 12 BLOCKING AND CONTINUE NAILING PATTERN AS SHOUN. FASTEN TOP PLATE TO HEADER WITH (2) ROUS OF IER SINKER NAILS # 3" OC. -(2) SIMPSON CSIG COIL STRAPS W/ IS" END LENGTHS INSTALLED ON INSIDE OF WALL FORE OF CONTINUOUS 4" x 8" SHEET OF SHEATHING INSTALL TUG" OBB SHEATHING ON OUTSIDE OF BRACED WALLS (AND INSIDE FACE WHERE NOTED ON THE PLANS), ATTACH OSB WITH 8d NAILS 3" O.C. ALONG EDGES. INTERMEDIATE STUDS, AND PLATES, WHERE SHEATHING LAPS HEADER DIRECTLY ABOVE RRACED HALL PANEL



NOTE: GROUT BOND BEAMS AND ALL CELLS WHICH CONTAIN

REBAR, THREADED RODS AND ANCHOR BOLTS

MASONRY STEM WALLS SUPPORTING

BRACED WALL PANELS

PER FIGURE R602.10.43

48" OR LESS

TS S

OPT FACE

- BRACED WALL PANEL

1/2" ANCHOR BOLTS

4 REBAR FIELD BEN

6" INTO BOND BEAM

-BRACED WALL PAVEL

-BOND BEAM

-8" CMJ

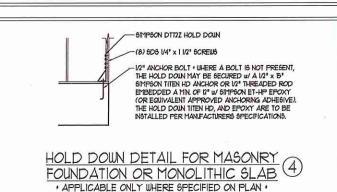
REQUIREMENTS

-BOND BEAM

-4 REBAR

TALL STEM WALL REINFORCEMENT

TYPICAL STEM WALL SECTION



TYPICAL EXTERIOR CORNER FRAMING FOR CONTINUOUS SHEATHING (5) PER FIGURE R602.103(5) MIN. 24" WOOD STRUCTURAL -SEE TABLE R6023(1) FOR FASTENING ANEL AN 800 LB HOLD DOWN DEVICE MAY BE INSTALLED IN ORIENTATION OF STUD MAY VARY, SEE FIGURE R6023(2) 16d NAIL (3 1/2" x Ø.131") GYPSUM WALLBOARD AS REQUIRED AND INSTALLED IN ACCORDANCE WITH CHAPTER T (TYP) OPTIONAL NON-STRUCTURAL - CONTINUOUS WOOD STRUCTURA PANEL BRACED WALL LINE FOR EACH WALL LINE FILLER PANEL (a) OUTSIDE CORNER DETAIL (5a) ORIENTATION OF STUD MAY 16d NAIL (3 1/2" x ØJ31") CONTINUOUS WOOD STRUCTURA PANEL BRACED WALL LINE SEE TABLE R6023(1) GYPSIM WALLBOARD AS FOR FASTENING UIRED AND INSTALLED IN ACCORDANCE WITH MIN 24" WOOD STRUCTURAL PANEL CORNER RETURN AN 800 LB HOLD CHAPTER 1 (TYP) DOWN DEVICE MAY BE INSTALLED IN LIEU OF CORNER RETURN (b) INSIDE CORNER DETAIL (5b) GYPSUM WALLBOARD AS REQUIRED - SEE TABLE R6023(1) AND INSTALLED IN ACCORDANCE WITH CHAPTER 1 (TYP.) 16d NAIL (3 10" x 0131") -MIN 24" WOOD STRUCTURAL PANEL CORNER RETURN AN 800 LB HOLD DOWN DEVICE SHEATHING FER PLAN MAY BE NOTALLED IN LIEU CONTINUOUS WOOD STRUCTURAL PANEL FASTENERS ON EACH STUD (5C) BRACED WALL INF-AT EACH PANEL EDGE (c) GARAGE DOOR CORNER DETAIL (SEE PLAN FOR ADDITIONAL

STRUCTURAL INFORMATION OR ALTERNATE CONFIGURATIONS)

- CONTINUOUS RIM OR BAND JOIST

8d NAILS @ 6" OC. ALONG

BRACED WALL PANEL

(3) 16d NAILS . 16" O.C.

ALONG BRACED WALL PANEL

CONTINUOUS RIM W/ FINGER

JOISTS OR DBL. BAND JOIST

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BRACED WALL PANEL CONNECTION WHEN (6)

- ADDITIONAL FRAMING

BRACED WALL PANEL

BRACED IIIAI L PANEL

BRACED WALL PANEL

(3) 16d NAILS @ 16" OC.

ADDITIONAL FRAMING

BRACED WALL PANEL

ALONG BRACED WALL PANEL

MEMBER DIRECTLY ABOVE

BO NAILS . 6" O.C. ALONG

PARALLEL TO FLOOR/CEILING FRAMING

PER FIG. R602.10.4.4(2)

LARGE FORMAT PRINTS ARE TO SCALE AS NOTED. II" x IT" PRINTS ARE ONE HALF THE NOTED SCALE KNG STUDS BETWEEN GARAGE HEADERS FER FLAN SARAGE HEADER (1) 5'-LONG SIMPSON COM JACK STUDS SUPPORTING HEADERS PER PLAN PORTAL FRAME CONNECTION DETAIL BETWEEN GARAGE DOOR HEADERS ERENCE PORTAL FRAME DETAIL FOR ALL OTHER PORTAL FRAME INFORMATION)

SCALE NOTE:

BRACED WALL PANEL (8) CONNECTION TO PERPENDICULAR RAFTERS PER FIGURE R602.10.45(1) OLID BLOCKING BETWEEN RAFTERS OR TRUSSES ATTACHED TO TOP PLATES WITH OF BRACED WALL PANEL

FULL HEIGHT BLOCKING .

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

S DESIGN WIND S MPH ULTIMATE I BRACING NOTES MPH - 130 N WALL E

Signal Control

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D W

(D)

CONNECTION TO PERPENDICULAR ROOF TRUSSES (9) PER FIGURE R602.10.45(3) OR ALTERNATIVE: FIGURE R602.10.45(2)) 2 x BLOCKING TABLE R600 3(1)

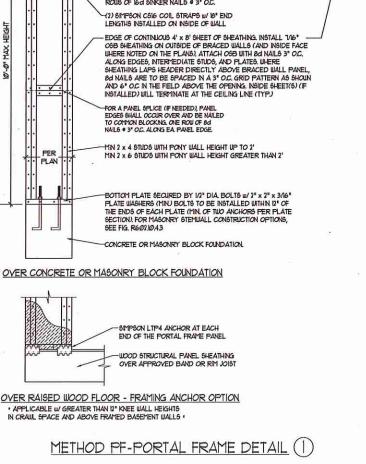
BRACED WALL PANEL

DATE OCTOBER 30, 2018 SCALE: 1/4" - 1'0" RAWN BY: JST NGINEERED BY: IST D-2 BRACED WALL NOTES AND DETAILS AND PF DETAILS

20

AT EA BLOCKING (2) I6d NAILS EA SIDE RULL HEIGHT PLOCKING & 16" O.C. ALONG LENGTH OF BRACED WALL PANEL 4004955555556666 CARO SEAL EW G. 00101144B468

3/7/19





SCALE NOTE:

LARGE FORMAT PRINTS ARE TO SCALE AS NOTED II" x IT" PRINTS ARE ONE HALF THE NOTED SCALE

KANYANYANYANYANYANY

O CERING.

SPEED DESIGN A - 130 MPH UL STANDARD S

S 27,200 2

工山 S S

MPH

LTIMATE I

120

DATE-NOVEMBER 14 2018

AWN BY-TES NGINEERED BY JST

> S-0 STRUCTURAL

SOLUTION BRENCOLD 3/7/19

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 TRUST LAYOUT DESIGN AND ACCURACY.
- ALL CONSTRUCTION SHALL CONFORM TO THE LATEST REQUIREMENTS OF THE NORTH CAROLINA RESIDENTIAL CODE (NCRC), 2018 EDITION, PLUS ALL LOCAL CODES AND REGULATIONS. THE STRUCTURAL ENGINEER IS NOT RESPONSIBLE FOR AND WILL NOT HAVE CONTROL OF, CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES, OR SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE CONSTRUCTION WORK, NOR WILL THE ENGINEER BE RESPONSIBLE FOR THE CONTRACTORS FAILURE TO CARRY OUT THE CONSTRUCTION WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
- STRUCTURAL DESIGN BASED ON THE PROVISIONS OF THE NCRC, 2018 EDITION (R3014 R3017)

DESIGN CRITERIA:	LIVE LOAD (PSF)	DEAD LOAD (PSF)	DEFLECTION (IN)	
ATTIC WITH LIMITED STORAGE	20	Ю	L/240 (L/360 W BRITTLE FNISHES	
ATTIC WITHOUT STORAGE	10	10	L/360	
DECKS	40	10	L/360	
EXTERIOR BALCONIES	40	10	L/36Ø	
FIRE ESCAPES	40	lø.	L/360	
HANDRAILS/GUARDRAILS	200 LB OR 50 (PLF)	10	L/360	
PASSENGER VEHICLE GARAGE	50	10	LB60	
ROOMS OTHER THAN SLEEPING ROOM	40	10	L/360	
SLEEPING ROOMS	3Ø	10	LB60	
STAIRS	40	10	L/360	
WIND LOAD	(BASED ON TABLE R3@12(4) WIND ZONE AND EXPOSURE)			
GROUND SNOW LOAD: Pa	2Ø (PSF)			

- 1-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 NCRC, 2018 EDITION, FOR 130 MPH, 140 MPH, AND BØ MPH WIND ZONES, FOUNDATION ANCHORAGE IS TO COMPLY WITH SECTION 4504 OF THE NCRC, 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

- I. FOUNDATION DESIGN BASED ON A MINIMUM ALLOWABLE BEARING CAPACITY OF 2000 PSF. CONTACT GEOTECHNICAL ENGINEER IF BEARING
- 2. FOR ALL CONCRETE 6LABS 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 INFORM 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 FLACED. A BASE COURSE IS NOT REQUIRED WHERE A CONCRETE SLAB IS INSTALLED ON WELL-DRAINED OR SAND-GRAVEL MIXTURE SOILS CLASSIFIED AS GROUP LACCORDING TO THE UNITED SOIL CLASSIFICATION SYSTEM IN ACCORDANCE WITH TABLE R4051 OF THE NORC, 2018 EDITION.
- PROPERLY DEWATER EXCAYATION PRIOR TO POURING CONCRETE WHEN BOTTOM OF CONCRETE SLAB IS AT OR BELOW WATER TABLE. IF
 APPLICABLE, 3/4" I" DEEP CONTROL JOINTS ARE TO BE SAIVED WITHIN 4 TO 12 HOURS OF CONCRETE FINISHING AND WALL LOCATIONS HAVE BEEN MARKED. ADJUST WHERE NECESSARY
- 4. CONCRETE SHALL CONFORM TO SECTION R4022 OF THE NCRC, 2016 EDITION. CONCRETE REINFORCING STEEL TO BE ASTM A615 GRADE 60. UELDED WIRE FABRIC TO BE ASTIM ALES, MAINTAIN A MINIMAL CONCRETE COVER AROUND REINFORCING STEEL OF 3" IN FOOTINGS AND I 1/2" IN SLABS, FOR POURED CONCRETE WALLS, CONCRETE COVER FOR REINFORCING STEEL MEASURED FROM THE INSIDE FACE OF THE WALL SHALL NOT BE LESS THAN 3/4". CONCRETE COVER FOR REINFORCING STEEL MEASURED FROM THE OUTSIDE FACE OF THE WALL SHALL NOT DE LESS THAN LIVE FOR 5 BARS OR SMALLER AND NOT LESS THAN 2" FOR 56 BARS OR LARGER.
- 5. MASONRY UNITS TO CONFORM TO ACE 530/ASCE 5/TMS 402. MORTAR SHALL CONFORM TO ASTM C270.
- 6. 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
- 1. THE CENTER OF EACH OF THE PIERS SHALL BEAR IN THE MIDDLE THIRD OF ITS RESPECTIVE
- 8. ALL CONCRETE AND MASONRY FOUNDATION WALLS ARE TO BE CONSTRUCTED IN ACCORDANCE WITH THE PROVISIONS OF SECTION RAPA OF THE NORC 2018 EDITION OR IN ACCORDANCE WITH WITH THE PROVISIONS OF SECTION RADIO OF THE NORM, IDDIE ENTITION OF ACCOMMENT FOUNDATION WALLS ACT 318, ACT 323, NCMA TROBE A OR ACE 530/ASCE 5/TH'S 402. MASONRY FOUNDATION WALLS ARE TO BE REINFORCED FER TABLE RADIALING, RADIALING, OR RADIALING THE NORM, 2018 EDITION. CONCRETE FOUNDATION WALLS ARE TO BE REINFORCED FER TABLE R404,1K5) OF THE NCRC, 2018 EDITION. 6TEP CONCRETE FOUNDATION WALLS TO 2 x 6 FRAMED WALLS AT 16" O.C. WHERE GRADE PERMITS (UNO).

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FRAMING NOTES

- LALL FRAMING LUMBER SHALL BE 12 SPF MINIMUM (Fb = 815 PSI, Fv = 315 PSI, E = 16000000 PSI) UNLESS NOTED OTHERWISE (UNO). ALL REATED 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: Fb =2600 PSI, Fv = 265 PSI, E = 1900000 PSI. LAMINATED STRAND LUMBER (LSL) SHALL HAVE THE FOLLOWING MINIMUM PROPERTIES: Ho = 2325 PSI, Fv = 310 PSI, E = 15500000 PSI. PARALLEL STRAND LIMBER (PSL) LP TO 1º DEPTH SHALL HAVE THE FOLLOWING MINIMUM PROPERTIES: FC = 2500 PSL E =18000000 PSL PARALLEL STRAND LUMBER (PSL) MORE THAN 1" DEPTH SHALL HAVE THE FOLLOWING MINIMUM PROPERTIES: FC = 2900 PSI, E = 2000 PSI. INSTALL ALL CONNECTIONS PER MANUFACTURER'S SPECIFICATIONS.
- 3. STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING ASTM SPECIFICATIONS

W AND WT SHAPES: ASTM A992 CHANNELS AND ANGLES: ASTM A36 PLATES AND BARS ASTM A36 HOLLOW STRUCTURAL SECTIONS: ASTM A500 GRADE B ASTM A53, GRADE B, TYPE E OR S

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

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

LATERAL SUPPORT IS CONSIDERED ADEQUATE PROVIDING THE JOISTS ARE TOE NAILED TO THE 2x NAILER ON TOP OF THE STEEL BEAM, AND THE 2x NAILER IS SECURED TO THE TOP OF THE STEEL BEAM W/ (2) ROUS OF SELF TAPPING SCREUS @ 16" O.C. OR (2) ROUS OF I/2" DIAMETER BOLTS # 16" 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 BEARNS 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 (I) KING STUD EACH END (UNO), WHICHEVER IS GREATER ALL HEADERS TO BE SECURED TO EACH JACK STUD WITH (4) 8d NAILS. ALL BEAMS TO BE SUPPORTED WITH (2) STUDS AT EACH BEARING POINT (UNO), INSTALL KING STUDS PER SECTION R6/02.15 OF THE NORTH CAROLINA RESIDENTIAL CODE, 2018 EDITION.
- 1. 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
- 8. FLITCH BEAMS SHALL BE BOLTED TOGETHER USING 1/2" DIAMETER BOLTS (ASTM A3/91) WITH WASHERS PLACED AT THREADED END OF BOLT. BOLTS SHALL BE SPACED AT 24" CENTERS (MAXIMM), AND STAGGERED AT TOP AND BOTTOM OF BEAM (2" EDGE DISTANCE), WITH (2) BOLTS LOCATED AT 6" FROM EACH END (UNO).
- 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.
- 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 R602.10.
- 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 5/6" STEEL ANGLE TO HEADER WITH 1/2" LAG SCREUG AT 12" O.C. STAGGERED FOR BRICK SUPPORT. FOR ALL BRICK SUPPORT AT ROOF LINES, BOLT A 6" x 4" x 5//6" STEEL ANGLE TO (2) 2 x 10/ BLOCKING INSTALLED W/ (4) 12d NAILS EA, PLY BETWEEN WALL STUDS WITH (2) ROUS OF 1/2" LAG SCREUS AT 12" O.C. STAGGERED AND IN ACCORDANCE WITH SECTION R103.82] 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 CF P-Ø". 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 DORYER 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 100 LB CAPACITY UPLIFT CONNECTORS TOP AND BOTTOM (UNO.) POSTS MAY BE SECURED USING ONE SIMPSON HIS OR LITSIZ UPLIFT CONNECTOR FASTENED TO THE BAND AT THE BOTTOM AND THE BEAM AT THE TOP OF EACH POST. ONE 16" SECTION OF SIMPSON C916 COIL STRAPPING WITH (8) 8d HDG NAILS AT EACH END MAY BE USED IN LIEU OF EACH TUIST STRAP IF DESIRED, FOR MASONRY OR CONCRETE FOUNDATION USE SIMPSON POST BASE.