APPROVED





06/25/2020

ENGAGE H&H HOMES

PLAN REVISIONS

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

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

69-12-18 STANDARD CLIENT CHAYGES PER CLIENT WALK-THRU NOTES DATED 68-30-18, CHANGES INCLUDE BUT NOT LIMITED TO THE FOLLOWING: REMOVE OPT, LAWDRY TUB, REMOVE KITCHEN ISLAND KNEEWALLS, ADD PLUMBING DROP INDER CABINET, REVISE ALL SECONDARY CLOSETS AND LINENS TO HAVE BI-FOLD DOORS, REMOVE WINDOW GRIDS AT SIDES AND REAR ELEVATIONS, REVISE DATA DROPS TO BE I PHONE IN KITCHEN AND I T.V. IN OWNERS SUITE AND GATHERING ROOM ONLY, REMOVE COVERED PORCH OPTION, REVISE KITCHEN LIGHTING TO BE 4-BULB

> PLAN SPECIFIC CHANGES INCLUDE BUT NOT LIMITED TO THE FOLLOWING: CENTERED WINDOW AT GATHERING ROOM IN KITCHEN HALLWAY, REMOVE OPT. DOOR AT LANDRY, REMOVE OPT. WINDOW AT POWDER BATH AND BEDROOM 3, MADE OPT, WINDOW AT LOFT STANDARD AND MADE 2ND FLOOR HALL CLOSET 2-6 DOOR

02-15-19 COMPLETED CLIENT COMMENTS.

02-II-20 UPDATED DIMENSIONS FOR PAD AND PATIO. REVISED ROOM DIMENSIONS FOR THE FOLLOWING ROOM: GATHERING ROOM WAS 15'-0" X 16'-5", NOW IT 15 15'-0" X 12'-3". CHANGED WASHER, DRYER, AND REFRIGERATOR TO OPTIONAL COMPONENTS. CREATED CUTSHEETS. CHANGE LOCATIONS OF HOSE BIBBS TO BE ON HEATED WALLS. VERIFY HOR HIGTS ARE AT LEAST 1'-0". VERIFIED MASTER'S WAS CHANGED TO OWNER'S. CHANGED 2X4 WALL AT REAR GARAGE WALL TO 2X6. REMOVED FLOOD LIGHTS AND SUITCHESWIRING AT REAR ADDED ROOF VENT CALCULATIONS. ADDED THERMOSTAT TO FIRST FLOOR ELECTRICAL PLAN. DIMENSIONS CEILING FAN IN GATHERING ROOM ON ELECTRICAL PLAN. UPDATED FOR NC RC 2018 AND SC IRC 2018. VERIFIED VENTILATION REQMTS AT OUNER'S BEDROOM ADDED INSULATION INFORMATION ON PLANS UPDATED THE SF AS FOLLOUS: ELEV-A IST FLOOR WAS 1717 SP, NOW 1716 SF ELEV-A 2ND FLOOR WAS 918 SF, NOW 916 SF ELEY-A TOTAL SP WAS 1755 SF, NOW 1752 SF

ELEV-C IST FLOOR WAS 111 SP, NOW 116 SF ELEV-C 2ND FLOOR WAS 918 SF. NOW 912 SF ELEV-A TOTAL SP WAS 1755 SF, NOW 1748 SF

SQUARE F	OOTAGE
AREA	ELEV 'A'
1ST FLOOR	776 SQ. FT
2ND FLOOR	976 SQ. FT
TOTAL (HEATING)	1752 SQ. FT
GARAGE (UNHEATED)	259 SQ. FT
PORCH	36 SQ. FT.
PAD	16 SQ. FT.
OPTIONAL GARAGE	240 SQ. 7
OPTIONAL PATIO	80 SQ. FT.

OOTAGE
ELEV 'C'
776 SQ, FT.
972 SQ. FT.
1748 SQ, FT,
259 SQ. FT.
36 SQ. FT.
16 SQ. FT.
240 SQ, FT.
80 SQ. FT.

ISSUANCE OF PLANS FROM THIS DRAFTER'S CHICE SHALL NOT RELEVE THE BILLDER OF REAPOSIBLITY TO REVEAL AND VERRY ALL NOTES, DYNAMOUS, AND ACHERONCE TO APPLICABLE BILLDING CODES FROM TO CONTRICTED TO ANY CONSTRICTION.

ANY DECREPANCY OF BROOM INDIES, DYNAMOUS, OR ACHERONCE TO APPLICABLE BULDING CODES SHALL BE BROOMED TO THE ATTENDION OF THE DRAFTER'S OFFICE FOR CORRECTION BEFORE CONTRICTIONS OF ANY CONSTRUCTION.

ALL LICE OF ALL DADING INC.	
ANY REVISIONS OR CHANGES, NOT RELATED TO THE CORRECTION OF ERRO	RE THAT ARE MADE
AFTER THE FINAL PLANS HAVE BEEN COMPLETED SHALL BE SUBJECT TO ADDIT	TICKUL TEES.
IF ANY MODERCATIONS ARE MADE TO THESE PLANS BY ANY OTHER PARTY	OTHER THAN THE
DRAFTER'S OFFICE, THE DRAFTER SHALL NOT BE HELD RESPONSIBLE.	







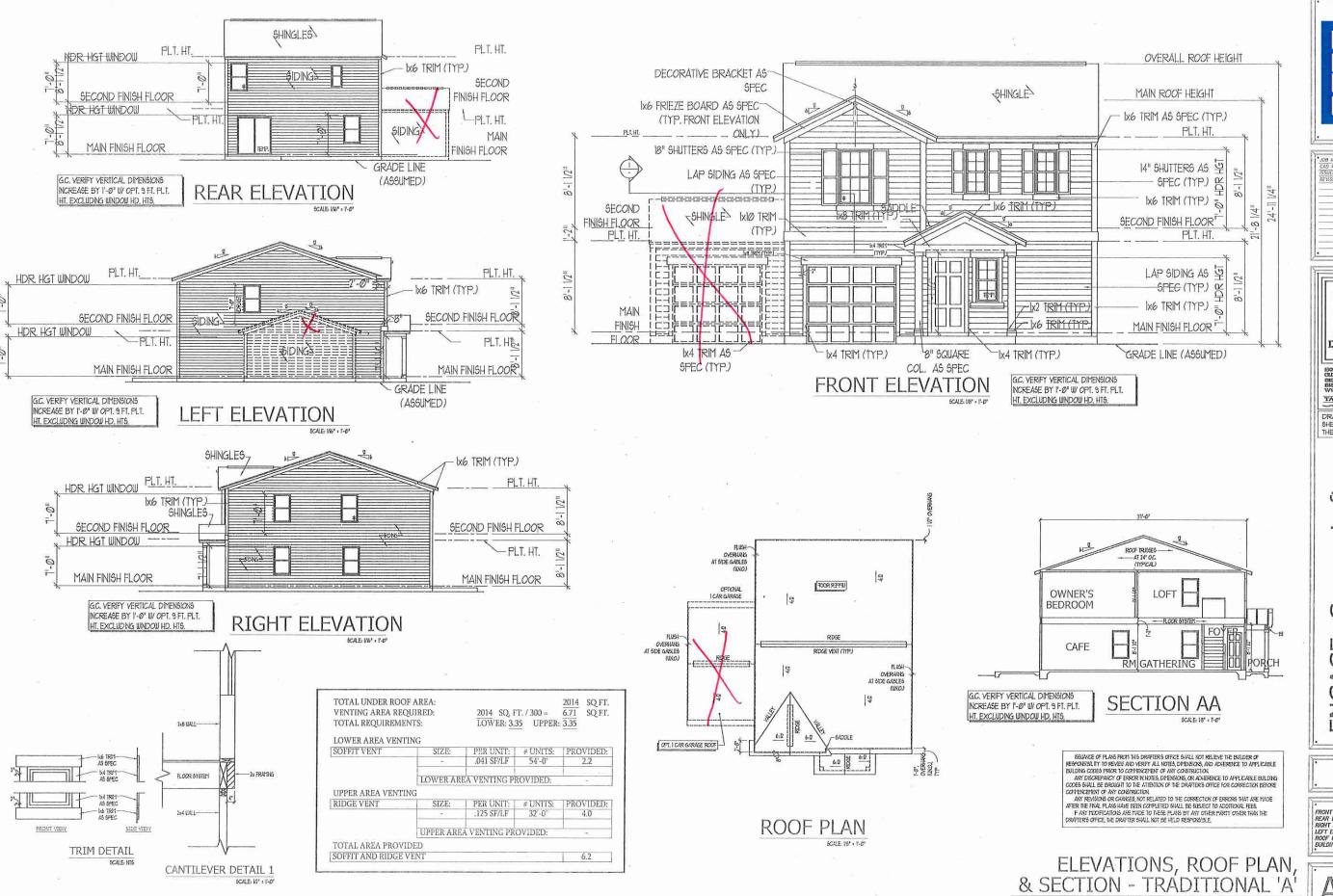
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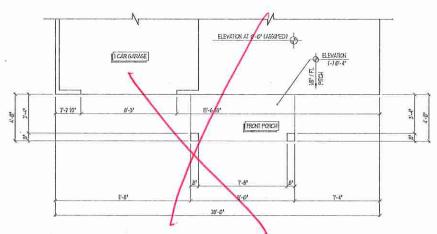


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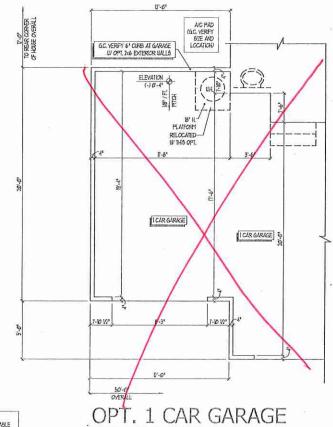
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* TITLE
FRONT ELEVATION
REAR ELEVATION
RIGHT ELEVATION
LEFT ELEVATION
ROOF PLAN
BUILDING SECTION

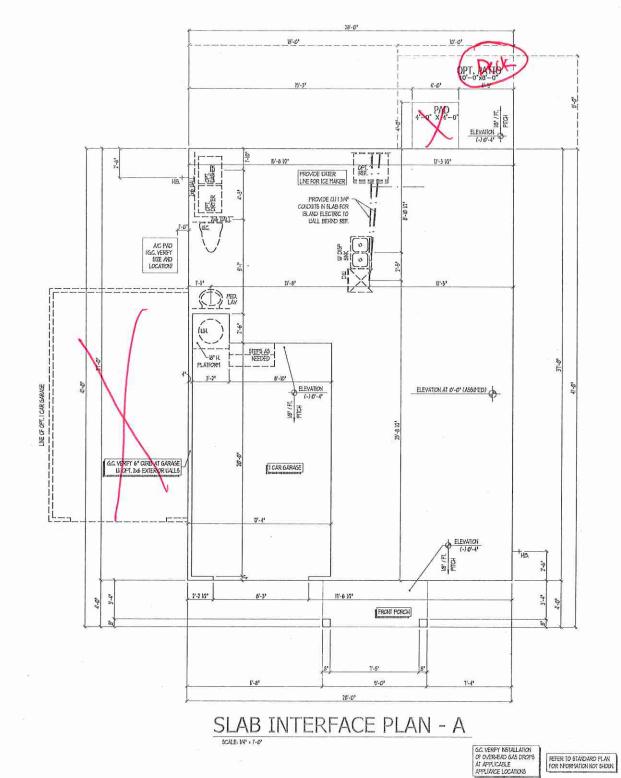
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PARTIAL SLAB INTERFACE PLAN - C



ISSURICE OF PLASS FROM THIS DRAFFERS OFFICE SHALL NOT RELEVE THE BULDER OF RESPONSIBILITY TO REVIEW AND VERRY ALL NOTES, DYCHOICAS, AND ADVERSIVE TO APPLICABLE BULDING CODES FROM TO CONTENCED OF THE CONSTITUTION ANY DISCORPANCY OF FROM IN NOTES, DYCHOOLS, OR ADVERSIVE TO APPLICABLE BULDING CODES SHALL BE DROWNED TO THE ATTENTION OF THE DRAFFERS OFFICE FOR CORRECTION EFFORE CONTENEDS ON CHAVES, NOT RELIED TO THE DRAFFERS OFFICE FOR CORRECTION OF THE PLASS THAT ARE MADE AFTER THE FINAL TUNS HAVE FEED COPPLETED SHALL BE SUBJECT TO ADDITIONAL THES. FIRST PROPERTIONS OR CHAVES, NOT THE PLASS BY ANY OTHER PLASTY OTHER THAN THE DRAFFERS OFFICE, THE DRAFFER SHALL NOT BE HELD RESPONSIBLE.



SLAB INTERFACE PLAN

DAVIS JEWS

EO STATE STREET RAST OLDEMAR, HORIDA 34677 813 - 925 - 1300 TEL 813 - 925 - 1800 FAX WWW.DAVEEWBCOM

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

Left

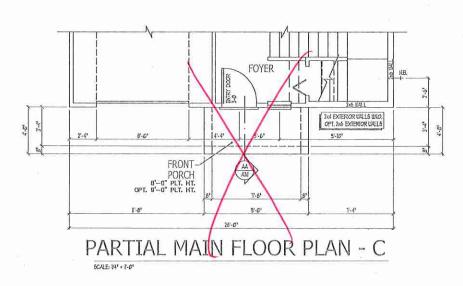
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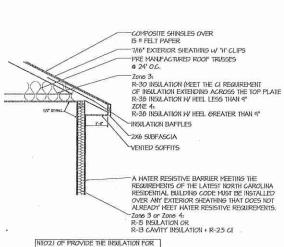
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SLAB INTERFACE PLAN OPTIONAL GARAGE PLAN

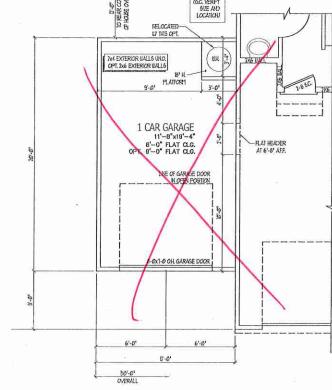
REFER TO STANDARD FLAN FOR NEORYATION NOT SHOUN





ALL HEATED AREAS R36 OR R30CI FOR CEILING, R-14 FLOORS, R15 OR R13 CAVITY PLUS R25 CONTINUOUS FOR WALLS

INSULATION DETAIL



OPT. 1 CAR GARAGE

EGUACE OF PLANS FROM THIS DRAFTER'S OFFICE SHALL NOT RELIEVE THE BULDER OF RESPONSIBILITY TO REVIEW AND VEREY ALL NOTES, DYDINIONS, AND ADHERENCE TO APPLICABLE BUILDING CODES PRIOR TO CONTRICE PAIN CONSTRUCTION. BUDNS CODE FROR TO COMPONENTIA OF ANY CONSTRUCTION.

ANY DISCREMENT OF ERROR IN IONES DIMENSION, OR ADEFINED IN APPLICABLE BUILDING.

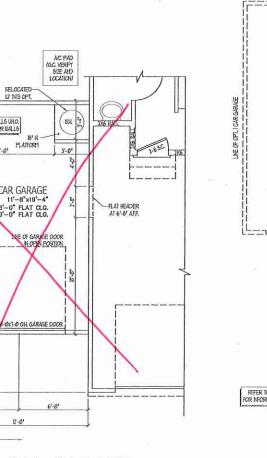
CODES SHALL BE BROADERT ON THE ATTENTION OF THE DIMENSION OF THE FOR CONSECTION BEFORE

COMPONENTIAL THE REVIOUS OR CONTESS TO THE LITED TO THE CORRECTION OF ERRORS THAT ARE MADE.

AFTER THE FINAL FLASH HAVE SEEN COMPONENTIAL THE BLEECT TO ADDITIONAL TIES.

FAIR THOROLARIONS ARE WHATE TO THESE PLANS BY THAT OTHER PARTY OTHER THAN THE

DRAFTER'S CAFICE, THE DRAFTER SHALL HOT BE HELD RESPONSIBLE.



GC, VERFY NOTALLATION OF OVERVEAD GAS DROPS AT APPLICABLE APPLIANCE LOCATIONS

5'-3"

3050 SH HD, AT 1'-0'

LNDRY

STEPS AS NEEDED

NSLATE FLOOR

TSYSTEM ABY.

1 CAR GARAGE 12'-0"x20'-0" 8'-0" FLAT CLG. OPT. 9'-0" FLAT CLG.

LINE OF GARAGE DOOR IN OPEN POSITION

8-0x1-0 OH GARAGE DR

FRONT-

PORCH 8'-0" PLT. HT. OPT. 9'-0" PLT. HT.

4 SHL

KITCHEN 8'-0" FLAT CLG. OPT. 9'-0" FLAT CLG.

ALL NITERIOR AVELED VALLS AVE. AT 45 (UN.O.)

1 24 EXTEROR UNITEDNO

OP1,7x6 EXTERIOR UALLS

CUTLET-BOX

DRYER-HB

8-6, CTC 01-1' 0-1'

A/C PAD (GC, VERFY SUE AND LOCATION)

RELOCATE UH-UP OTHER GARAGE OPTIONS

B'H

PLATFORM

MAIN FLOOR PLAN — A

SCALE, W* 1-1-6*

SCALE, W* 1-6*

SCALE,

HALFUALL 5'-0'

FOYER THE

111 SF. 974 S.F. 1751 S.F. UPPER FLOOR TOTAL LIVING GARAGE 259 S.F. FRONT PORCH TOTAL SQ. FT.

STAIR DATA: 16 RISERS AT 161 EACH 10.00" TREADS

W दमा अंच्या दाद STAIR DATA: IT REERS AT 131" EACH

2x4 EXTERIOR UALLS UNO. OPT. 2x6 EXTERIOR UALLS

MAIN FLOOR PLAN

5'-3"

6-0-6-8 TEMP, 5GD

HS. CPT.

10'-0"x12'-4" 8'-0" FLAT CLG. OPT. 9'-0" FLAT CLG.

GATHERING ROOM

15'-0"x12'-3" 8'-0" FLAT CLG, OPT, 9'-0" FLAT CLG.

LANDING

PAEE HALL

ALKIN W-

LIVE OF BLOFFD CL

(LT OPT. 9'-0' PLT. HT)

- FLAT HEADER AT 11-01 AFF.

(FLAT HEADER AT 8'-0' AFF U/ OFT, 9'-0' PLT, HT)

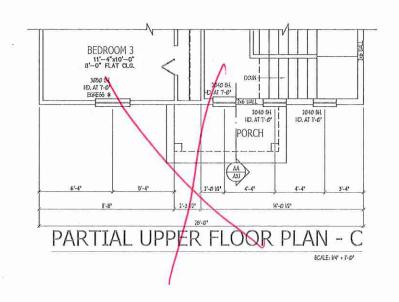


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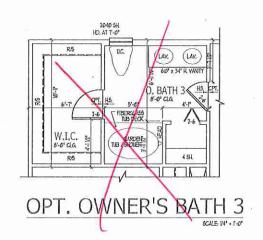
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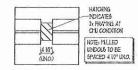
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MAIN FLOOR PLAN OPTIONAL GARAGE PLAN



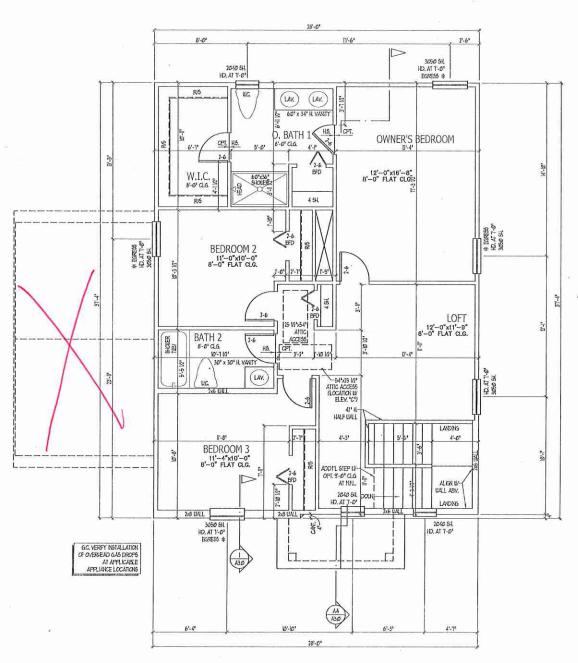






ISSUACE OF FLAS FROM THIS DRAFTERS OFFICE SHALL NOT RELEVE THE BULDER OF REPORTED THE TO EXPEN AND VERRY ALL NOTES, DYCHROOS, AND ADMERSIZE TO APPLICABLE BULDING CODES FROM TO COPYENCE FOR ANY DISCREPANCY OF RESIDEN (NOTES, DYCHROOS), OR ADMERSIZE OF APPLICABLE BULDING CODES SHALL BE BROUGHT TO THE ATTENTION OF THE DRAFTER'S OFFICE FOR CORRECTION BEFORE COPYENCES OF ANY COSTINUOUS AND THE ATTENTION OF THE DRAFTER'S OFFICE FOR CORRECTION BEFORE COPYENCES OF ANY COSTINUOUS COPYENCES OF ANY COSTINUOUS AND THE THAT HAVE PROPERLY OFFICE THAT ANY THE THAT HAVE FRANCE FOR MODE TO ADMINIOUS FEEL THAT THE DRAFTER SHALL NOT BE HELD RESPONSIBLE.

TYP. MULL DETAIL SCALE RISA















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UPPER FLOOR PLAN OWNER'S BATH OPTIONS

ELECTRICAL KEY

DUPLEX CONVENENCE OUTLET

DUPLEX OUTLET ABOVE COUNTER ₩ LEATHERPROOF DUPLEX OUTLET

₩ GROUND FAULT NIERRUPTER DUPLEX OUTLET HALF-SUTCIED DUPLEX OUTLET

6 SPECIAL PURPOSE OUTLET

DUPLEX OUTLET NIFLOOR

J⊕ 220 VOLT OUTLET

MALL SUITCH

THREE-CLAY SUTICH

FOUR-LIAY SUTTOH DITERSLICH

CEILING MOUNTED INCANDESCENT LIGHT FIXTURE

WALL MOUNTED INCANDESCENT LIGHT FIXTURE

RECESSED INCANDESCENT LIGHT FIXTURE LIGHT FIXTURE UITH PULL CHAIN

A TRACK LIGHT

FLUORESCENT LIGHT FIXTURE EXHAUST FAN

EXHAUST FAVALISHT CONSINATION

ELECTRIC DOOR OFERATOR (OPTIONAL) CHIMES (OPTIONAL)

PUSHBUTTON SUTTCH (OPTIONAL)

CARBON MONOXIDE DETECTOR SMOKE DETECTOR

⑤ 5º00€ / CA®ON POVO, CO/BO DETECTOR

TELEPHONE (OPTIONAL)

TELEVISION (OPTIONAL)

THERMOSTAT

M ELECTRIC PETER

== ELECTRIC PAYEL DISCONIECT SUTCH

SPEAKER (OPTIONAL)

ROUGH-IN FOR OPT, CEILING FAN

CELING MOUNTED INCARDESCENT LIGHT FIXTURE OF ROUGH IN FOR OFT, CELING FAN

NOTES:

2. UNLESS OTHERUSE INDICATED, INSTALL SUITCHES AND RECEPTACLES AT THE FOLLOWIS HEISHTS ABOVE FINSHED FLOOR COUNTERTON OUTLINESS. "IN OUTLINESS. "IN THE THE PROPER." IN OUTLINESS ABOVE COUNTERTON TELEVISION. IN

3. ALL SYOKE DETECTORS SHALL BE HARDURED NTO AN ELECTRICAL POLER SOURCE AND SHALL BE EXTIFFED WITH A MONITORED BATTERY BACKUP, PROVIDE AND INSTALL LOCALLY CERTIFED SYOKE DETECTORS.

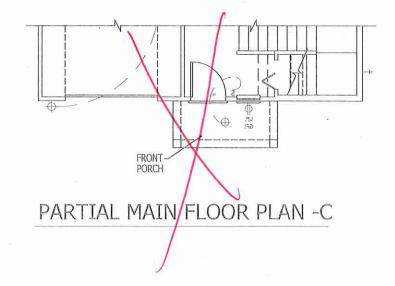
4. ALL 5A AND 20A RECEPTACLES IN SLEEPINS ROOMS, FAILY ROOMS, DINNS ROOMS, LIMBS ROOMS, PARLONS, LIBRARES, DEMS, SUNGOMS ECREATION ROOMS, CLOSES, HALLIANS, AD STAILAR AREA SLIL, RECOVER A COMPANION THRE AFFAIL DRYCE AND TAMPER FROOF RECEPTACLES PER NEG. 201 466 D. AND 466 B

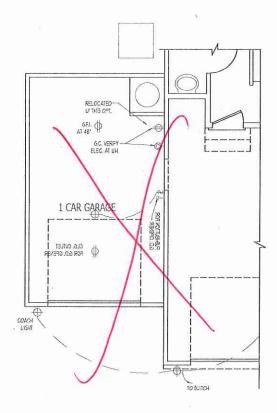
5, ALL BA AND 10A 1007 RECEPTAGLES LOCATED IN THE GARAGE AND UTLITY ROOMS SHALL BE GECL PROTECTED (GELL)

6. IT IS THE RESPONSIBILITY OF THE LICENSED ELECTRICAN TO ENGINE THAT ALL ELECTRICAL LOOK IS IN FILL COTTS, LAVE WITH MFPA 10, NEC. 101, AND ALL APPLICABLE LOCAL STANDARDS, CODES, AND ORDINAVES.

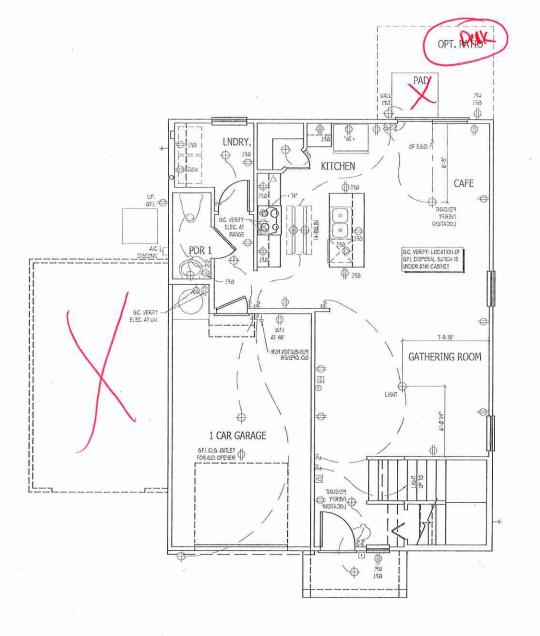
LEVERY BULDING HAVING A FOSSIL-RIEL-BURNING HEATER OR APPLIANCE, FIREPLACE, OR AN ATTACHED GARAGE SHALL HAVE AN OFERATIONAL CARBON YOUNDED DETECTOR INSTALLED WITHIN 10 FEET OF EACH ROOM USED FOR SLEEPING DEPORTED.

8. J.AR'IS SMALL RECEIVE THEIR PRIMARY FORER FROM THE BUILDING URBYS LIFEN SICH URBYS IS SERRED RECOT THE LOCAL FOLER UTILITY, SUCH ALARYS SHALL HAVE BUTTERY BACKING, COMENSION, SYSTEME AND STORMED ALARYS SHALL BE LISTED OR LASELED BY A NATIONALLY RECOGNIZED TESTING LASCRATORY.





OPT. 1 CAR GARAGE



MAIN FLOOR PLAN -A







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MAIN FLOOR ELEC, PLAN OPTIONAL GARAGE ELECT.

ISSUANCE OF PLANS FROM THIS DRAFTERS OFFICE SHALL NOT RELIEVE THE BUILDER OF RESPONSIBILITY TO REVIEW AND VERRY ALL NOTES, DYCHOLOGY, AND ADMERINGE TO APPLICABLE BUILDING CODES FROM TO COMMENCEMENT OF ANY CONSTRUCTION. ANY DISCREPANCY OF ERROR IN NOTES, DIVENSIONS, OR ADJURNMENT TO APPLICABLE BUILDING

ANY DISCREMANCY OF ERROR IN NOTED DYNENDON, OR ADDIERRAGE TO APPLICABLE BYLLONG CODES SHALL BE BROADER TO THE ATTENDED OF THE DEPARTERS OFFICE FOR CORRECTION SETORE CONTENTION ANY REVISION OF CHAYMES AND RELATED TO THE CORRECTION OF ERRORS THAT ARE HADE AFTER THE FINAL PLASS HAVE BEEN COMPLETED SHALL BE SUBJECT TO ADDITIONAL FEEL FAILY TO FIRST PLAY THE THAN THE DRAFTERS OFFICE, THE DRAFTER SHALL NOT BE HELD RESPONSED.

MAIN FLOOR ELECTRICAL PLAN

ELECTRICAL KEY

DUPLEX CONVENENCE OUTLET → DIFFEX OUTEL ABOVE CONTER

OUTER

OUT

₩, LEATHERFROOF DUPLEX OUTLET

GET GROZO FAULT INTERRUPTER DUPLEX OUTLET

HALF-SUTCHED DUPLEX OUTLET

HO SPECIAL PURPOSE OUTLET DUPLEX OUTLET N FLOOR

770 YOLT OUTLET

WALL SUITCH

THREE-WAY SUITCH

FOUR-WAY SUTTON DITTER SUITCH

CELLING MOUNTED INCA/DESCENT LIGHT FIXTURE

LIALL MONTED NOADESCENT LIGHT FIXTURE

RECESSED INCANDESCENT LIGHT FIXTURE ♠ LIGHT FIXTURE WITH PULL CHAIN

TRACK LIGHT

COMPONE PLUDRESCENT LIGHT FIXTURE EXHAUST FAN

EXHAUST FANA IGHT COMBINATION

ELECTRIC DOOR OFERATOR (OPTIONAL) CHI'ES (OPTIONAL)

PUSHBUTTON SUTTCH (OPTIONAL

CARBON MONOXIDE DETECTOR (9) 5MOKE DETECTOR

(S) SMOKE / CARBON MONO, COMBO DETECTION F

TELEPHONE (OPTIONAL)

TELEVISION (OPTIONAL)

THERMOSTAT

THIS ELECTRYC METER ELECTRIC PAREL

_mi DISCONNECT SUTTCH

 SPEAKER (OPTIONAL) ROJGH-IN FOR OFT, CEILING FAN

CELLING HOLNTED INCANDESCENT LIGHT FIXTURE OF ROUGH-IN FOR OPT. CELLING FAN

NOTES:

I. PROVIDE AND INSTALL GROUND FAULT CIRCUIT-INTERRUPTERS (GFL) AS NOICATED ON PLANS OR AS ITEM NO. 4 AND 5 BELOW NOICATES.

3, ALL SYOKE DETECTORS SHALL BE HAROURED INTO AN ELECTRICAL POLER SOURCE AND SHALL BE EXITED UTH A TRANSFED BATTERY BACKUP, PROVIDE AND INSTALL LOCALLY CERTIFED SMOKE DETECTORS.

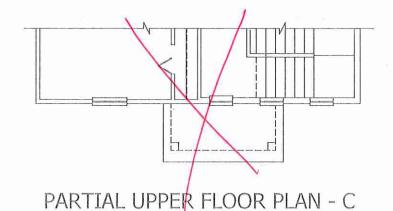
4. ALL BA AND 20A RECEPTACIES IN SIEFPIX ROOMS, FAYLY ROOMS DINNS ROOMS LIWAS ROOMS, PARCIONS LIBRARESS, DANS, SINGOUTS, RECREATION ROOMS, COEFES, MALLOWS, ROOMS THAN RACES LILL RECORDE A CORENINATION THREAFFUL DEVICE AND TAMPER PROOF RECEPTACIES FERINES, 2011 406 B AND 406 B

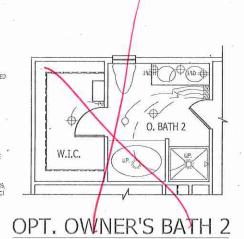
5. ALL 5A AYO 10A NOV RECEPTACLES LOCATED IN THE GARAGE AND UTILITY ROOMS SHALL BE GECL PROTECTED (GET).

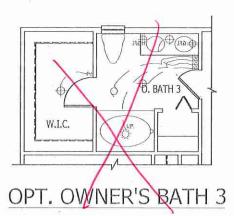
6.11 IS THE RESPONSIBILITY OF THE LICENSED ELECTRICIAN TO ENSIRE THAT ALL ELECTRICAL WORK IS IN RILL COMPLIANCE WITH IN PARA 10, NEC. 201, AND ALL APPLICABLE LOCAL STANDARDS, CODES, AND ORDINANCES.

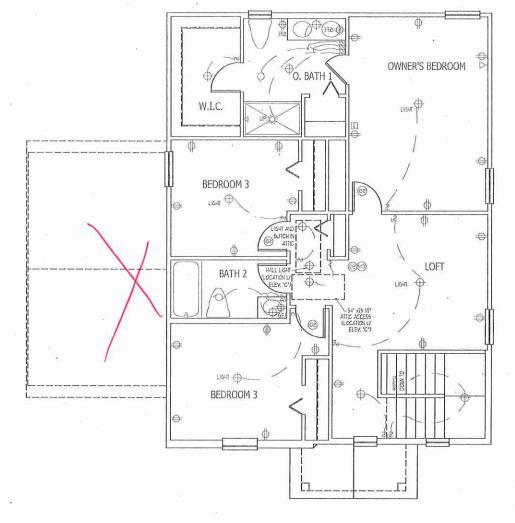
1. EVERY BULDNS HAVYS A FOSSU-REL-BURNS HEALER OR AFFLANCE, FIREFLACE, OR AN ATMACHED GARAGE SHALL HAVE AN OFFRATIONAL CAREON MONORE DETECTOR NATALLED LITEN OF THE OF EACH ROOM USED FOR SLEEPING PURPOSES.

8. ALARYS SHALL RECEIVE THEIR PRIMARY POLER FROM THE BUILDING URING LIBIN SUCH URING IS SERVED FROM THE LOCAL POLER WILLIN, SUCH ALARYS SHALL HAVE BUTTERY BUCKEY COMBANION SURVEICE/SERVEN FOLONOISE ALARYS SHALL HAVE LISTED OR LABELED BY A NATIONALLY RECOGNIED TESTING L'ASCRATORY.









UPPER FLOOR PLAN - A







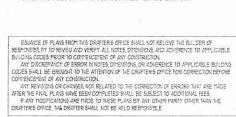
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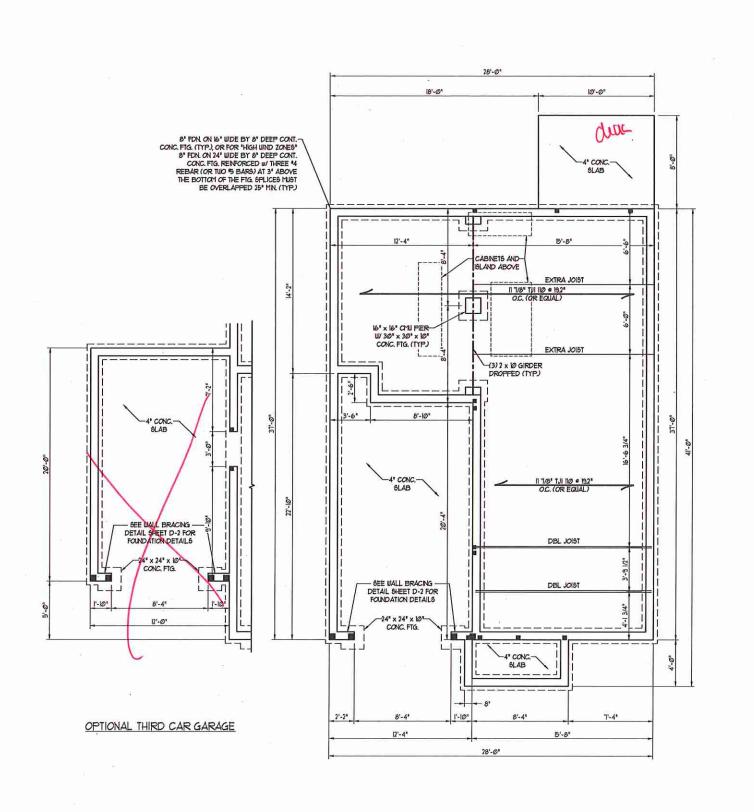
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* TITLE UPPER FLOOR ELEC. PLAN OWNERS BATH OPTIONS

UPPER FLOOR ELECTRICAL PLAN







SCALE NOTE:

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



50 MPH ULTIMATE DESIGN WND SPEED NOTES FOR LESS THAN 30' MEAN ROOF HEIGHT:

ENGINEER'S SEAL APPLIES ONLY TO STRUCTURAL COMPONENTS. ENGINEERS
SEAL DOES NOT CERTIFY DIMENSIONAL
ACCURACY OR ARCHITECTURAL LAYOU NCLUDING ROOF SYSTEM

EDITION WITH SPECULL CONSIDERATION TO CHAPTER 46 ("NICH WIND JONES" FOR BO INH WINDS.

BILLIDER IS TO FROMDE FRAMING CONSECTIONS AS REQUIRED BY GUIPTER 46 ("WIGH WIND JONES" FOR BO INH WINDS) OF THE HORTH CAROLINA FESDERITUL CODE, 1009 EDITION FOR DATA TO COTE 1,009 EDITION FESDERITUL CODE, 1009 EDITION FESDERITUL CODE, 1009 EDITION FESDERITUL CODE, 1009 EDITION FESDERITUR CODE, 1009 EDITION FESDERITUR CODE, 1009 EDITION FESDERITUR CODE, 1009 EDITION FOR GUIPTE AND -31 PEF (44 ND) CATE POSITION / WILL CLADONIS DESCRIBED FOR GUIPTE FOR CALDONIS DESCRIBED FOR GUIPTE FOR CALDONIS DESCRIBED FOR GUIPTE FOR POSITICATED 2302 TO 100.

TUM OSS SHEATHING IS REQUIRED ON ALL ENTEROR MULLS.

WILL TO BE BRACED IN ACCORDANCE WITH SECTION RESIDER OF THE NORTH CAROLINA RESIDENTAL CODE, 1009 EDITION AND AS NOTED ON FLASS.

DEERSY EFFICIENCY CONFILIANCE AND NEALANT NUMBER OF THE BULDONS TO DE IN ACCORDANCE WITH EDITION AND AS NOTED ON FLASS.

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

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

DISNEER'S SEAL APPLES CALY TO STRUCTURAL COMPONENTS, DISNEER'S SEAL DOES NOT CERTIFY DISNESSAL ACCURACY OR ARCHITECTURAL LAYOUT NALUDIA'S ROOF SYSTEM STRUCTURAL CODE, 2006 EDMINO, NSTALL IN" ARCHOR BOLTS 6"-0" OC. AND UNITH 1-0" FROM BOD OF EACH CORRER ARCHOR BOLTS MAD TO FEACH WITH MOST MAD THE ARCHORD FEACH STRUCTURE FOR THE FEACH WITH MODIF THERE OF HATE WITH THE PROTECTION OF THE PROPERTY OF THE PROP

BOLT WITHN MIDDLE THRO OF PLATE WIDT MEAN ROOF HEIGHT IS LESS THAN 30 FEET. EXTERIOR WALLS DESIGNED FOR 120 MPH

PERFORMENT SUBSTITUTE OF THE MACK AND T

STRUCTURAL NOTES:

ALL FRAMING LUMBER TO BE 2 SFF (UNO), ALL TREATED LUMBER TO BE 2 SYP (UNO.) NSTALL AN EXTRA OR DOUBLE JOIST UNDER WALLS PARALLEL TO FLOOR JOISTS WHERE NOTED

ON THE PLANS, 60UARES DENOTE POINT LOADS WHICH REQUIRE SOLID BLOCKING TO GIRDER OR FOUNDATION. SHADED PIERS TO BE FILLED

SHEETS FOR ADDITIONAL

O Z Sold 0 I.S. THOMPS ENGINEERING, 006 WADEANE, SUITE 104 RALEICH, NG PHONE, (19) TSOMIN

> - GARAGE I H HOMES ENGAGE -H & 1

DATE: 101Y 18, 2019 SCALE: 1/4" - 1/0"

ENGINEERED BY-WEB

SHEET: 1 OF: 8 S-1a CRAWL

SOLID.

INSTALL LADDER WIRE # 16" O.C. TO SECURE MULTIPLE WYTHE FOUNDATION WALLS TOGETHER.
REFER TO NOTES AND DETAIL

WHITE A COUNTY SEAL 33736 W G. ST SOUBSONDES CONTROLS

7/22/19

12'-0" 5IDE 2B

(3) 2 x 12 CONT. FROM CORNER TO CORNER W/ (2) 2 x 6 EA BRG. RT.

GARAGE PORTAL FRAME

SEE METHOD FF ON WALL BRACING DETAIL SHEET D-2

12'-0" SIDE IB RECTANGLE B

OPTIONAL THIRD CAR GARAGE

NOTE: ALL FIRST FLOOR EXTERIOR WALLS ARE TO BE 2 x 4 @ 16" O.C. (UNO). 2 x 6 \$ 16" O.C. FIRST FLOOR EXTERIOR WALLS MAY BE CONSTRUCTED IN LIEU OF 2 x 4 WALLS (UNO), ALL INTERIOR LOAD BEARING AND NON-LOAD BEARING WALLS ARE TO BE 2 x 4 SPF \$2 @ 24" O.C. (UNO).

TABLE R602.15 MINIMUM NUMBER OF FULL HEIGHT STUDS

HEADER SPAN (FEET)	MAXIMUM STUD SPACING (INCHES) (PER TABLE R6023/5)	
WEED	16	24
UP TO 3'	1	1
4'	2	ì
8'	3	2
13.	5	3
161	6	4

SEAL

33736

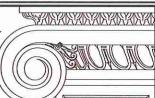
EW G. ST

COLUMN THE COURT HE

7/22/19

SCALE NOTE:

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



BRACED WALL DESIGN NOTES:

- BRACED WALL DESIGN PER SECTION R60710 OF THE
- NCRC 2018 EDITION
 CS-WEP RETERS TO "CONTINUOUS SHEATHING WOOD
 STRUCTURAL, PANELS" CONTRACTOR IS TO INSTALL TAIS" OSB
 ON ALL EXTERIOR WALLS ATTACHED W/8d NAILS SPACED 6"
- O.C. ALONG PANEL EDGES AND 12" O.C. IN THE FIELD.

 GB REFERS TO "GYPSIM BOARD" CONTRACTOR IS TO INSTALL

 10" (MIN.) GYPSIM WALL BOARD WHERE NOTED ON THE FLANS. FASTEN GB WITH 11/4" SCREUS OR 15/8" NAILS SPACED 1" OC. ALONG PANEL EDGES AND IN THE FIELD INCLUDING TOP AND BOTTOM PLATES. BRACED WALL DESIGN APPLIED IN WIND ZONES UP TO 130 MPH.
- FOR HIGH WIND ZONES, BRACE WALLS ARE TO BE CONSTRUCTED IN ACCORDANCE WITH CHAPTER 45 OF THE NORC 2018 EDITION. SEE NOTES AND DETAIL SHEETS FOR ADDITIONAL BRACED.

CRING ITTE IN CALEDALY FNGINEE WAREAUES HEIGHT STORY

OZ:

S

BRACED WALL DESIGN

RECTANGLE A

6IDE IA METHOD: C5-USP/PF TOTAL REQUIRED LENGTH: 14.7 TOTAL PROVIDED LENGTH: 165'

SIDE 2A METHOD: CS-WSP TOTAL REQUIRED LENGTH IAT TOTAL PROVIDED LENGTH: 19'

6IDE 3A METHOD: C5-W5P TOTAL REQUIRED LENGTH: II3' TOTAL PROVIDED LENGTH: 31' SIDE 4A METHOD: CS-USP

RECTANGLE B SIDE IB METHOD: C5-U6P/PF TOTAL REQUIRED LENGTH: 3.8' TOTAL PROVIDED LENGTH: 60' SIDE 2B METHOD: CS-USP TOTAL REQUIRED LENGTH: 38' TOTAL PROVIDED LENGTH: 120' SIDE 3B 4 4A COMBINED METHOD: C5-WSP

TOTAL REQUIRED LENGTH: 836" TOTAL PROVIDED LENGTH: 305' SIDE 4B METHOD: CS-WSP

TOTAL REQUIRED LENGTH: II3' TOTAL REQUIRED LENGTH: 2.66' TOTAL PROVIDED LENGTH: 3133' TOTAL PROVIDED LENGTH: I6.33'

STRUCTURAL NOTES:

- ALL FRAMING LUMBER TO BE 5FF 12 (UNO), ALL TREATED LUMBER TO BE SYP 12 (UNO.) ALL LOAD BEARING HEADERS TO BE (2) 2 x 6
- NSTALL AN EXTRA JOIST UNDER WALLS PARALLEL TO FLOOR JOISTS WHERE NOTED ON THE PLANS.
- WINDOW AND DOOR HEADERS TO BE SUPPORTED W/ (I) JACK STUD AND (I) KING STUD FA FND (INO.) SEE TABLE R60215 FOR ADDITIONAL KING STUD REQUIREMENTS. SQUARES DENOTE POINT LOADS WHICH REQUIRE
- SOLID BLOCKING TO GIRDER OR FOUNDATION. ALL SQUARES TO BE (2) STUDS (UNO.) FOR HIGH WIND ZONES, ALL EXTERIOR WALLS TO BE SHEATHED WITH 17/6" OSD SHEATHING WITH JOINTS BLOCKED AND SECURED WITH 84 NATI S
- AT 3" O.C. ALONG EDGES AND 6" O.C. IN THE FOR HIGH WIND ZONES, SECURE ALL EXTERIOR WALL SHEATHING PANELS TO DOUBLE TOP PLATES, BANDS, JOISTS, AND GIRDERS WITH (2) ROUS OF 8d NAILS STAGGERED AT 3" O.C. PANELS SHALL EXTEND 12" BEYOND CONSTRUCTION JOINTS AND SHALL OVER! AP
- GIRDERS AND DOUBLE SILL PLATES THEIR FULL ALL 4 × 4 POSTS SHALL BE ANCHORED TO SLABS W/ SIMPSON ABU44 POST BASES (OR EQUAL) AND 6 × 6 POSTS W/ ABU66 POST BASES (OR EQUAL) (UNO), ALL 4 x 4 AND 6 x 6 POSTS TO BE INSTALLED WITH 1000 LB CAPACITY UPLIFT CONNECTORS AT TOP (UNO.)
- FOR FIBERGLASS, ALIMINUM, OR COLUMN ENG. BY OTHERS, SECURE TO SLAB W/ (2) METAL ANGLES USING 2" CONC. SCREWS, FASTEN ANGLES TO COLUMNS W 1/4" THROUGH BOLTS W NUTS AND IIIASHERS I OCATE 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.

LEF

-GARAGE 1 H HOMES

ENGAGE. H & I

DATE-11/17 18 2010 5CALE: 1/4" + 1/4"

ENGINEERED BY: WFB

он 8 SHEET, 4 S-2

SECOND FLOOR

3'-9" W/ ELEY A: (2) | 3/4" x 9 1/4" LVL w/ (2) JACKS EA END (4) 2 x 4 OR OR W/ ELEY C: (2)2 x 6 14" TJI 110 @ 24" OC (OR FOUL) EXTRA JOIST (3) 2 x 4 u/ EXTRA JOIST EXTRA JOIST ~(3)2 x 4 DOUBLE JOIST C. (OR EQUAL FXTRA JOIST 4" TJI 110 @ 24" (3) 2 x 12 CONT. FROM CORNER TO CORNER W/ – 2 × 6 & 16 ° O.C. BALLOON FRAMED WALL CANTILEVER GARAGE PORTAL FRAME. SEE METHOD FF ON WALL BRACING DETAIL SHEET D-2 (2) 2 x 10 (TYP)

28'-0" SIDE 2A

deck

-4 x 4 TRTD

ELEVATION A

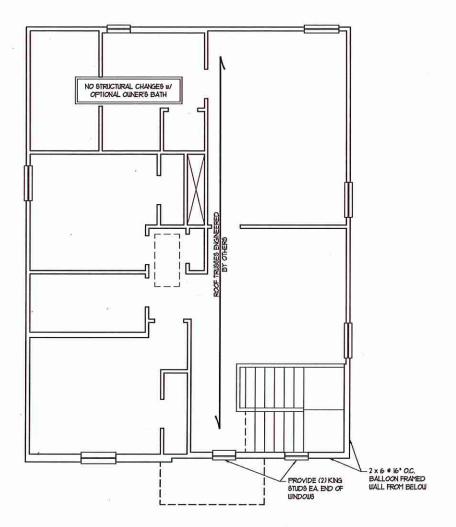
28'-0" SIDE IA RECTANGLE A

INSTALL SIMPSON LTØ EA.

SIDE OF PORCH BEAM TO-2'-4" CONNECT TO GARAGE
CONTR HDR IF REQ'D BY GRADE
3'-6"

EXTRA JOIST (4)2 x 4 14" TJI 110 = 24" O.C. (OR EQUAL) (3) 2 x 12 CONT. FROM CORNER TO CORNER W/ (2) 2 x 6 EA BRG. PT. 2x6 0 16' OC 1 BALLOON FRAMED WALL GARAGE PORTAL FRAME.-SEE METHOD PF ON WALL BRACING DETAIL SHEET D-2 (2) 2 x (0 (TYP) 4 x 4 TRTD POST MIN (TYP) INSTALL SIMPSON LTØ EA SIDE OF PORCH BEAM TO CONNECT TO GARAGE-HDR IF REQ'D BY GRADE

ELEVATION C



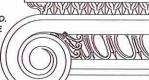
ELEVATION A



SCALE NOTE:

LARGE FORMAT PRINTS ARE TO SCALE AS NOTED.

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



NOTE: ALL SECOND FLOOR EXTERIOR WALLS AND ATTIC WALLS ARE TO BE 2 x 4 SPF 12 @ 24" O.C. (UNO). 2 x 6 SFF 12 @ 24" O.C. SECOND FLOOR EXTERIOR WALLS MAY BE CONSTRUCTED IN LIEU OF 2 x 4 WALLS (UNO). ALL INTERIOR LOAD BEARING AND NON-LOAD BEARING WALLS ARE TO BE 2 x 4 SPF \$2 @ 24" O.C. (UNO).

BRACED WALL DESIGN NOTES:

- BRACED WALL DESIGN PER SECTION R60210 OF THE
- BRACEJ WALL DEBISH FER SELTION ROBLED OF THE MCRC 2018 EDITION.

 CS-USP REFERS TO "CONTINUOUS SHEATHING UCOD STRUCTURAL PANELS" CONTRACTOR IS TO INSTALL THIS "OSB ON ALL EXTERIOR WALLS ATTACHED UP 80 MAILS SPACED 6"

 OC. ALONG PANEL EDGES AND IZ" OC. IN THE FIELD.
- GB REFERS TO "GYPSUM BOARD" CONTRACTOR IS TO INSTALL ID" (MIN) GYPSUM WALL BOARD WHERE NOTED ON THE PLANS. FASTEN GB WITH I V4" SCREUS OR I 5/8" NAILS SPACED TO OC. ALONG PANEL EDGES AND IN THE FIELD INCLUDING TOP AND BOTTOM PLATES.
 BRACED WALL DESIGN APPLIED IN WIND ZONES UP TO 130 MPH.
- FOR HIGH WIND ZONES, BRACE WALLS ARE TO BE CONSTRUCTED IN ACCORDANCE WITH CHAPTER 45 OF THE NORC 2019 EDITION SEE NOTES AND DETAIL SHEETS FOR ADDITIONAL BRACED WALL INFORMATION.

NOTE:

- PER SECTION R602J032 OF THE 2018 NCRC, THE AMOUNT OF BRACING ON THE SECOND FLOOR EXCEEDS THE AMOINT REQUIRED FOR THE FIRST FLOOR AND NO BRACED WALL ANALYSIS IS REQUIRED.

 2. SHEATH ALL EXTERIOR WALLS WITH 7/16* OSB SHEATHING
- ATTACHED WITH 8d NAILS AT 6" O.C. ALONG PANEL EDGES AND 12" O.C. IN THE FIELD.

STRUCTURAL NOTES:

- ALL FRAMING LUMBER TO BE SPF 12 (UNO). ALL TREATED LUMBER TO BE SYP 12 (UNO.) ALL LOAD BEARING HEADERS TO BE (2) 2 x
- WINDOW AND DOOR HEADERS TO BE SUPPORTED W/ (1) JACK STUD AND (1) KING
- STUD EA END (UNO.) SEE TABLE R607.15 FOR ADDITIONAL KING STUD REQUIREMENTS, SQUARES DENOTE POINT LOADS WHICH REQUIRE SOLID BLOCKING TO GIRDER OR FOUNDATION. ALL SQUARES TO BE (2)
- STUDS (UNO.)
 FOR HIGH WIND ZONES, ALL EXTERIOR WALLS TO BE SHEATHED WITH TIG" OSB SHEATHING WITH JOINTS BLOCKED AND SECURED WITH 8d NAILS AT 3" O.C. ALONG EDGES AND 6" O.C. IN THE FIELD. FOR HIGH WIND ZONES, SECURE ALL.
- EXTERIOR WALL SHEATHING PANELS TO DOUBLE TOP PLATES, BANDS, JOISTS, AND GIRDERS WITH (2) ROUS OF 8d NAILS STAGGERED AT 3" O.C. PANELS SHALL EXTEND 12" BEYOND CONSTRUCTION JOINTS AND SHALL OVERLAP GIRDERS AND DOUBLE SILL PLATES THEIR FULL DEPTH.
 REFER TO NOTES AND DETAIL SHEETS FOR ADDITIONAL STRUCTURAL INFORMATION.

TABLE R602.15 MINIMUM NUMBER OF FULL HEIGHT STUDS AT EACH END OF HEADERS IN EXTERIOR WALLS

HEADER SPAN (FEET)	MAXIMIM STUD SPACING (NCHE (PER TABLE R6013(5))		
	16	24	
UP TO 3'	1	1	
4'	2	1	
8'	3	2	
12'	5	3	
16'	6	4	

SON CONTRACTOR NO STATE OF SON ENGINEERING.

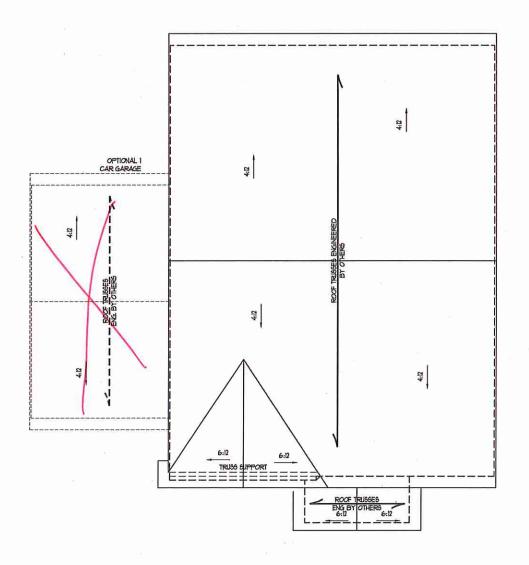
CON WATERING.

HONE (1917 789-1917 789-1917 789-9-27

ENGAGE - GARAGE H & H HOMES

DATE: JULY 18, 2019 SCALE 1/4" - 1/0" ENGINEERED BY: WFB

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



ELEVATION A

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

STRICTURAL NOTES:

ALL FRAMING LIMBER TO BE 12
SPE (INO.).

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

IF RAME DOTHER WALLE ON TOP
OF DOUBLE OR TRIPLE RAFTERS.

IF HIP SPLICES ARE TO BE SPACED
A MN. OF 5"-0". FASTEN
TEMBERS WITH THREE ROUS OF
12d MAILS 0 Is" OC. (TYP.)

STICK FRAME OVER-FRAMED
ROOF SECTIONS W 2 x 8 RIDGES,
2 x 6 RAFTERS 0 Is" OC. AND
HAT 2 x W VALLEYS OR USE
VALLEY TRUSSES,
FASTEN FLAT VALLEYS OR
RAFTERS OR TRUSSES WITH
SHIPPON 125A HURRICANE
TIES THROUGH NOTCH IN ROOF
SHEATHING, EACH RAFTER IS TO
BE FASTENED TO THE HAT
VALLEY WITH A MN. OF (6) 12d
TOE NAILS.

REFER TO SECTION RAWING OF THE
20B NCRC FOR RECUIRED UPLIFT
RESISTANCE AT RAFTERS AND
TRUSSES.

REFER TO NOTES AND DETAIL
SHEETS FOR ADDITIONAL
STRICTURAL INFORMATION

STRUCTURAL NOTES:



ENGINEERING, INC

ENGAGE - GARAGE LEFT H & H HOMES

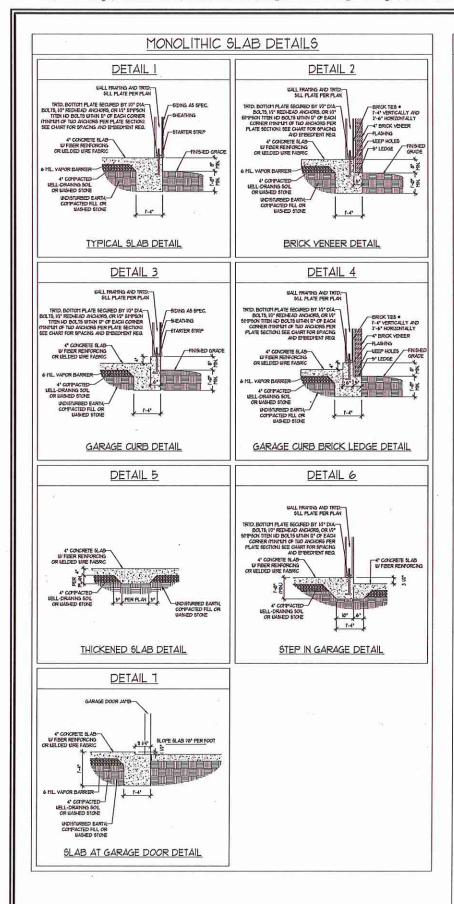
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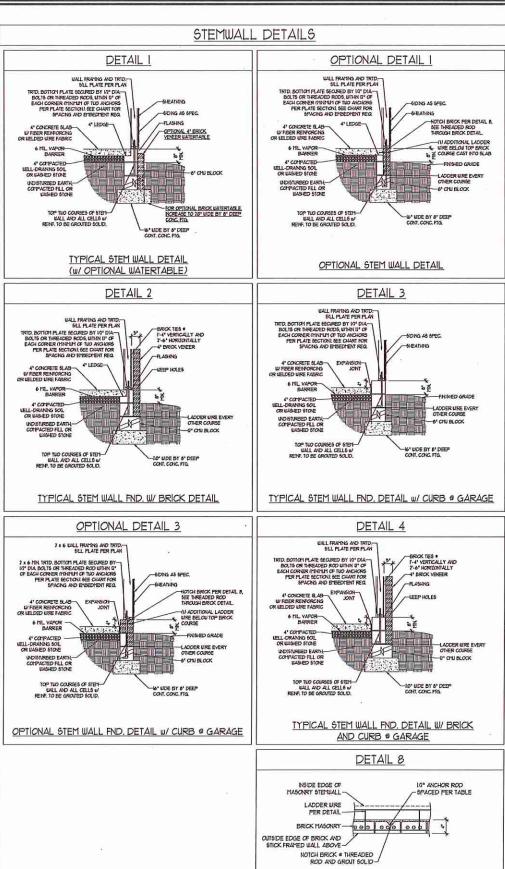
SEAL

SCALE: 1/4" - 1/4"

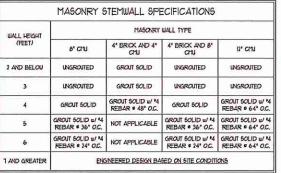
DRAWN BY, DAVIS BERS DISION OF ENGINEERED BY, WFB

SHEET: 7 OF. 8 S4a ROOF FRAMING PLAN





THREADED ROD THROUGH BRICK MASONRY



STRUCTURAL NOTES:

- WALL HEIGHT MEASURED FROM YOUR OF FOOTING TO YOUR OF THE WALL.
 THE MULTIPLE WITHER TOGETHER WITH LADDER WIRE AT 16" O.C. VERTICALLY.
 CHART AFFLICABLE FOR HOUSE FOUNDATION ONLY, CONSULT ENGINEER FOR DESIGN OF GARAGE
 FOUNDATION NOT CONTYON TO HOUSE.

- FONDATION NOT COTYCN TO HOUSE.

 BACFILL OF CILENA 51 / % I MARED 51ONE IS ALLOMABLE.

 BACFILL OF CILENA 51 / % I MARED 51ONE IS ALLOMABLE.

 BACFILL OF URLI DRAINED OR SAND GRAVEL MIXINE SOLIS (48 PEFFI BELOW GRADE)

 CLASSFIED AS GROWF I ACCORDING TO INFED SOLIS CORE THE 10/18 INTERNATIONAL RESIDENTIAL CODE.

 HINDRIN 12 / LAP SEL CEL LEGISTA

 LOCATE REBAR IN CENTER OF FONDATION WALL

 SURFIER REQUIRED, FILL BLOCK SOLID WITH TYPE '5' MORTAR OR 3000 PSI GROUT, USE OF 'LOU LET GROWT'S TETHOO REQUIRED WHEN FILLING WALLS WITH GROUT AT LEIGHTS OF 5' AND GREATER.

AN	ICHOR SPACING AND	EMBEDMENT
WIND ZONE	120 MPH	ВФ МРН
SPACING	6'-0" O.C.	4-0° O.C.
EMBEDMENT	14	5" NTO MASONRY 1" NTO CONCRETE

*************** SEAL W STRO. EW G. ************* 7/22/19

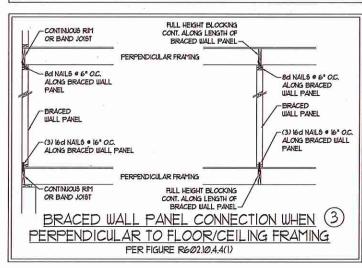
O Z 0 2 S. H.

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

DATE: NOVEMBER 14, 2018 SCALE: NTS ENGINEERED BY: JES

D-1 FOUNDATION DETAILS

GENERAL WALL BRACING NOTES: WALL BRACING DESIGNED IN ACCORDANCE WITH CHAPTER 6 OF THE 2018 NC RESIDENTIAL BUILDING CODE (NCRC). TABLES AND FIGURES REFERENCED ARE FROM THE 2009 NORC. SEE THIS SHEET FOR GENERAL DETAILS. REFER TO THE 2019 NORC FOR ADDITIONAL INFORMATION AS NEEDED. BRACED EXTERIOR WALLS SUPPORTING ROOF TRUSSES AND RAFTERS, INCLUDING STORIES BELOW THE TOP FLOOR, HAVE BEEN DESIGNED PER R60/235 (3), WALL SHEATHING AND FASTENERS HAVE BEEN DESIGNED TO RESIST COMBINED UPLFT AND SHEAR FORCES IN ACCORDANCE WITH ACCEPTED ENGINEERED PRACTICE. SEE STRICTURAL SHEETS FOR BRACED WALL LOCATIONS DIMENSIONS HOLD DOWN TYPE AND LOCATIONS BRACED WALL INE KEY WITH WALL DESIGN SUMMARY OF REQUIRED/PROVIDED TOTALS FOR EACH WALL LINE AND ANY SPECIAL NOTES 5. ALL EXTERIOR WALLS ARE TO BE SHEATHED WITH CS-USP IN ACCORDANCE WITH SECTION R6021/03 INI ESS NOTED 6. ALL EXTERIOR AND INTERIOR WALLS TO HAVE 1/2" GYPSUM INSTALLED, WHEN NOT USING METHOD "GB", GYPSUM TO BE FASTENED FER TABLE RT0/35, METHOD GB TO BE FASTENED FER TABLE R60/10/1 1. CS-USP REFERS TO THE "CONTINUOUS SHEATHING - WOOD STRICTURAL PANELS" WALL BRACING METHOD. T/16" OSB SHEATHING 18 TO BE NSTALLED ON ALL EXTERIOR WALLS ATTACHED W/ 64 CONTON NAILS OR 84 (2 1/2" LONG x 0/115" DIAMETER) NAILS SPACED 6" OC. ALONG PANEL EDGES AND 2" OC. IN THE FIELD (WIND.) GB REFERS TO THE "GYFSUM BOARD" WALL BRACING METHOD. 1/2" (MINU GYFSUM WALL BOARD IS TO BE INSTALLED ON BOTH SIDES OF THE BRACED WALL FASTENED WITH I 1/4" SCREWS OR I 5/8" NAILS. SPACED T" O.C. ALONG PANEL EDGES INCLUDING TOP AND BOTTOM PLATES AND INTERMEDIATE SUPPORTS (UND.) VERIFY ALL FASTENER CRITICALS FOR IO. AND 5/8" GYPSIM PRIOR TO CONSTRUCTION. FOR NIERIOR FASTENER OPTIONS SEE TABLE RI0235. FOR EXTERIOR FASTENER OPTIONS SEE TABLE RI0235. FOR EXTERIOR FASTENER OPTIONS SEE TABLE RI0235. REGUISED 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 PF CONTRIBUTES IS TIMES ITS ACTUAL LENGTH. HEADER PER PLAN CONTINUOUS TO CORNER UNLESS NOTED OTHERWISE ON FLANS, IF HEADER IS NOT CONTINUOUS TO CORNER BLOCK BETWEEN STUDS FROM END 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 16d SINKER NAILS # 3" O.C. -(2) SIMPSON CSIG COIL STRAPS W/ 18" END LENGTHS INSTALLED ON INSIDE OF WALL EDGE OF CONTINUOUS 4' x 8' SHEET OF SHEATHING INSTALL 1/16"



NOTE: GROUT BOND BEAMS AND ALL CELLS WHICH CONTAIN

REBAR, THREADED RODS AND ANCHOR BOLTS

MASONRY STEM WALLS SUPPORTING

PER FIGURE R602.10.43

BRACED WALL PANELS (2)

48" OR LESS

3" COVER

OPT, FACE

BRICK .

BRACED WALL PANEL

4 REBAR FIELD BENT

BRACED WALL PANEL

BOND BEAM w/ (I) 4 REBAR

5/8" THREADED RODS MAY

- NUT AND 2" MIN. WASHER

6" INTO BOND BEAN

- 1/2" ANCHOR BOLTS

REQUIREMENTS

BOND BEAM W/

(I) 4 REBAR

SHORT STEM WALL REINFORCEMENT

3" COVER

48" OR LESS

3" COVER

RODS MAY BE INSTALLED USING AN ADHESIVE

ANCHORING SYSTEM WITH A MINIMUM TENSILE

OPTIONAL STEM WALL REINFORCEMENT

CAPACITY OF 3150 LBS AND INSTALLED IN

- BRACED WALL PANEL

1/2" ANCHOR BOLTS

PER BRACED WALL

4 REBAR FIELD BENT

-BRACED WALL PANEL

-BOND BEAM

-8" CMJ

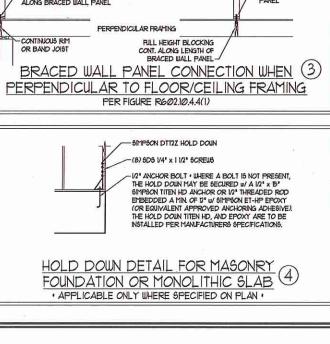
4 REBAR

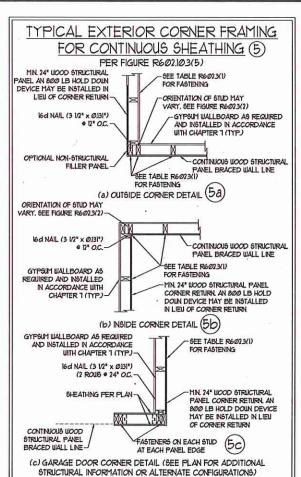
MN (TYP)

TALL STEM WALL REINFORCEMENT

. 1

TYPICAL STEM WALL SECTION





BRACED WALL PANEL CONNECTION WHEN (6)

- ADDITIONAL FRAMING MEMBER DIRECTLY ABOVE

8d NAILS . 6" O.C. ALONG

BRACED WALL PANEL

-BRACED WALL PANEL

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

ADDITIONAL FRAMING

MEMBER DIRECTLY BELOW

ALONG BRACED WALL PANEL

BRACED WALL PANEL

PARALLEL TO FLOOR/CEILING FRAMING

PER FIG. R602.10.4.4(2)

SCALE NOTE: LARGE FORMAT PRINTS ARE TO SCALE AS NOTED. II" x IT" PRINTS ARE ONE HALF THE NOTED SCALE PORTAL FRATE ARAGE HEADER PER PLAN (1) 5'-LONG SIMPSON CSN JACK 61UD6 SUPPORTING HEADERS FER PLAN PORTAL FRAME CONNECTION DETAIL BETWEEN GARAGE DOOR HEADERS REFERENCE PORTAL FRAME DETAIL FOR ALL OTHER PORTAL FRAME INFORMATION)

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" OC ALONG LENGTH OF BRACED WALL PANEL

TOE NAIL (3) 8d NAILS AT

EA BLOCKING MEMBER

BRACED WALL PANEL

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

(2) IEd NAILS EA SIDE

FULL HEIGHT BLOCKING &

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

AT EA BLOCKING

DESIGN WIND S S AND DETAILS MPH ULTIMATE I BRACING NOTES MPH - 130 I WALL F 120

O Z S

<u>A</u>

O M PE

-Ju

Z 3

FAX: 6

3

CONNECTION TO PERPENDICULAR ROOF TRUSSES (9) PER FIGURE R602.10.45(3) OR ALTERNATIVE: FIGURE R602.10.45(2)) X BLOCKING TABLE R6023(1) 6'-0' MAX ************

SEAL

33736

VGINE

CARTORIST BARBON

7/22/19

EW G.

BRACED WALL PANEL

DATE: OCTOBER 30, 2018 RAWN BY JST GINEERED BY, IST

D-2 BRACED WALL NOTES AND DETAILS AND PF DETAILS

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CONTINUOUS RIM OR BAND JOIST

8d NAILS . 6" O.C. ALONG

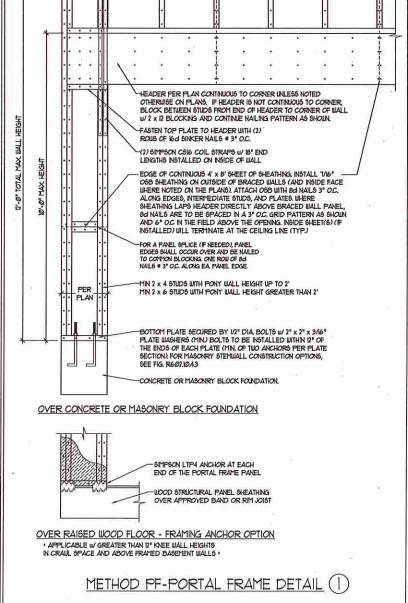
BRACED WALL PANEL

BRACED WALL PANEL

(3) 16d NAILS # 16" OC.

CONTINUOUS RIM W/ FINGER

JOISTS OR DBL. BAND JOIST



SCALE NOTE:

LARGE FORMAT PRINTS ARE TO SCALE AS NOTED

II" x I'I" PRINTS ARE ONE HALF THE NOTED SCALE

ZIO OIZERO SIZERO SIZER

GENERAL NOTES

- ENGINEER'S SEAL APPLIES ONLY TO STRUCTURAL COMPONENTS INCLIDING ROOF RAFTERS, HIPS, VALLEYS, RIDGES, FLOORS, WALLS, BEAMS, HEADERS, COLUMS, CANTILEVERS, OFFSET LOAD BEARNIG 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), 2019 EDITION, PLUS ALL LOCAL CODES AND REGULATIONS. THE STRUCTURAL ENGINEER IS NOT RESPONSIBLE FOR AND WILL NOT HAVE CONTROL OF, CONSTRUCTION MEANS, PETHODS, 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 NCRC, 2018 EDITION (R30L4 R30LT)

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/36Ø
DECKS	40	10	L/360
EXTERIOR BALCONIES	40	10	L/360
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	10	L/36Ø
SLEEPING ROOMS	30	10	L/360
STAIRS	40	10	L/360
WIND LOAD	(BASED ON TABLE R3/912(4) WIND ZONE AND EXPOSURE)		
GROUND SNOW LOAD: Pg	2Ø (PSF)		

- I-JOIST SYSTEMS DESIGNED WITH 12 PSF DEAD LOAD AND DEFLECTION (IN) OF $\ensuremath{\text{L}}\xspace/480$
- FLOOR TRUSS SYSTEMS DESIGNED WITH IS PSF DEAD LOAD
- 4. FOR 15 AND 120 MPH WIND ZONES, FOUNDATION ANCHORAGE IS TO COMPLY WITH SECTION R40316 OF THE NCRC, 2018 EDITION. FOR 130 MPH, 140 MPH, AND 150 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

- L FOUNDATION DESIGN BASED ON A MINIMA ALLOWABLE BEARNG CAPACITY OF 2000 PSF. CONTACT GEOTECHNICAL ENGINEER IF BEARNG CAPACITY IS NOT ACCURAGE.
- 2. FOR ALL CONCRETE SLABS AND FOOTINGS, THE AREA WITHIN THE PERIFIETER OF THE BUILDING ENVELOPE SHALL HAVE ALL VEGETATION, TOP SOIL AND FOREIGN MATERIAL, REPHOVED, FILL MATERIAL SHALL DE FREE OF VEGETATION AND FOREIGN MATERIAL. THE FILL SHALL DE COMPACTED TO ASSIVE MIFFORM SUPPORT OF THE SLAB, AND EXCEPT WHERE APPROVED, THE FILL DEPTHS SHALL NOT EXCEED 24 FOR CLEAN SAND OR GRAVEL A4 THICK BASED COURSE CONSISTING OF CLEAN GRADED SAND OR GRAVEL SHALL DE PLACED. A BASE COURSE IS NOT REQUIRED WHERE A CONCRETE SLAB IS NISTALED ON URLL-DRAWDED OR SAND-AVEL INTURES SOILS CLASSIFICATION SYSTEM IN ACCORDANCE WITH TABLE RAPS JOT THE INCRO, 2018 EDITION.
- PROPERLY DELIATER EXCAVATION PRIOR TO POURNG CONCRETE WHEN BOTTOM OF CONCRETE SLAB IS AT OR BELOW WATER TABLE. IF
 APPLICABLE, 3/4" 1" DEEP CONTROL. JONITS ARE TO BE SAULED WITHIN 4 TO ID HOURS OF CONCRETE FINISHING AND WALL LOCATIONS HAVE
 BERN MARKED. ADJUST WHERE NECESSARY.
- 4. CONCRETE SHALL CORPORT TO SECTION RAW2 OF THE NORC, 20/8 EDITION. CONCRETE RENFORCING STEEL TO BE ASTM A6/6 GRADE 6/8, UELDED WIRE FABRIC TO BE ASTM A6/6. MAINTAIN A MINITAL CONCRETE COVER AROUND REINFORCING STEEL OF 3/4 M FOOTINGS AND 1/2" N SLABS, FOR FOURED CONCRETE UALLS, CONCRETE COVER FOR REINFORCING STEEL MEASURED FROM THE NISIDE 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 3/4". CONCRETE COVER FOR REINFORCING STEEL MEASURED FROM THE OUTSIDE FACE OF THE WALL SHALL NOT BE LESS THAN 3/4". CONCRETE COVER FOR REINFORCING STEEL MEASURED FROM THE OUTSIDE FACE OF THE WALL SHALL NOT BE LESS THAN 1/4". FOR YS DARS OR SHALLERS, AND NOT LESS THAN 1/4" OF NESS AND NOT LESS.
- MASONRY UNITS TO CONFORM TO ACE 530/ASCE 5/IMS 401. MORTAR SHALL CONFORM TO ASTM C210.
- 6. THE UNSUPPORTED HEIGHT OF MASONRY PIERS SHALL NOT EXCEED FOUR TIMES THEIR LEAST DIMENSION FOR INFILLED HOLLOU CONCRETE MASONRY UNITS AND TEN TIMES THEIR LEAST DIMENSION FOR SOLID OR SOLID FILLED PIERS, PERS MAY DE FILLED SOLID WITH CONCRETE OR TYPE M OR 3 MORTAR PIERS AND WALLS SHALL DE 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 RAPA OF THE NORC, 2018 EDITION OR IN ACCORDANCE WITH ACT 318, ACT 321, NOTA TASS-A OR ACE 530/ASCE 51715 4021. MASONRY FOUNDATION WALLS ARE TO BE REINFORCED FER TABLE RAPA11X1), RAPA11X2), RAPA11X3), OR RAPA11X41 OF THE NORC, 2018 EDITION. CONCRETE FOUNDATION WALLS ARE TO BE REINFORCED FER TABLE RAPA11X51 OF THE NORC, 2018 EDITION. STEP CONCRETE FOUNDATION WALLS ARE TO BE REINFORCED FER TABLE WALLS AT 16" OC. WHERE GRADE FERMITS (WAO).

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FRAMING NOTES

- L ALL FRAMING LIMBER SHALL BE 9 SFF MINIMUM (Fb = 815 P3), Fv = 315 P3), E = 16/00/00/0 P31) UNLESS NOTED OTHERWISE (UNO). ALL TREATED LIMBER SHALL BE 9 SYP MINIMUM (Fb = 915 P3), Fv =115 P3), E = 16/00/00/0 P31) UNLESS NOTED OTHERWISE (UNO).
- 2. LAMINATED VENEER LIMBER (LVL.) SHALL HAVE THE FOLLOWING MINIMUM PROPERTIES: Fb = 2600 P5I, Fv = 265 P5I, E = 1800000 P5I. LAMINATED STRAND LIMBER (LSL.) SHALL HAVE THE FOLLOWING MINIMUM PROPERTIES: Fb = 2375 P6I, Fv = 310 P6I, E = 1500000 P6I. PARALLEL STRAND LIMBER (P6I,) IVE TO 1º DEPTH SHALL HAVE THE FOLLOWING MINIMUM PROPERTIES: Fc = 2500 P6I, E = 18000000 P6I. PARALLEL STRAND LIMBER (P6I,) MORE THAN 1º DEPTH SHALL HAVE THE FOLLOWING MINIMUM PROPERTIES: Fc = 2900 P6I, E = 2000000 P6I. P6I, NSTALL ALL CONNECTIONS FER MANUFACTURER'S SPECIFICATIONS.
- 3. STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING ASTM SPECIFICATIONS

A WAND WIT SHAPES: ASTM A992

B. CHANNELS AND ANGLES: ASTM A36

C. PLATES AND BARS: ASTM A36

D. HOLLOW STRICTURAL SECTIONS: ASTM A500 GRADE B

E. STEEL PIPE: ASTM A503, GRADE B, TYPE E OR 5

 STEEL BEAYS SHALL BE SUPPORTED AT EACH END WITH A MINITUM BEARING LENGTH OF 3 1/2" AND FILL FLANGE WIDTH (LNO). PROVIDE SOLID BEARING FROM BEAM SUPPORT TO FOUNDATION. BEAMS SHALL BE ATTACHED AT THE BOTTOM FLANGE TO EACH SUPPORT AS EXTLADED AND A.

A LUDOD FRAMING (2) 1/2" DIA x 4" LONG LAG SCREUB
B. CONCRETE (2) 1/2" DIA x 4" LONG SAMPSON TITEN HD ANCHORS
C. MASONRY (FULLY GROUTED) (2) 1/2" DIA x 4" LONG SAMPSON 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 IA" DIAPETER BOLTS = 16" O.C. IF IA" BOLTS ARE USED TO FASTEN THE NAILER, THE STEEL BEAM SHALL BE FARRICATED w/ (2) ROUS OF 9/6" DIAPETER HOLES = 16" O.C.

- SQUARES DEVOTE 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 R602.1(1) AND R602.1(2) OF THE NORC, 2018 EDITION OR BE (2) 2 x 6 WITH (1) JACK AND (1) KING STUD EACH END (INO.) 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 BEARNS POINT (INO.). INSTALL KING STUDS PER SECTION R602.15 OF THE NORTH CAROLINA RESIDENTIAL CODE, 2018 EDITION.
- 1. ALL BEA16, HEADERS, OR GIRDER TRUSSES PARALLEL TO WALL ARE TO BEAR FULLY ON (1) JACK OR (2) STUDS MINIMIM OR THE NUMBER OF JACKS OR STUDS NOTED. ALL BEA19 OR GIRDER TRUSSES FERRENDICULAR TO WALL AND SUPPORTED BY (3) STUDS OR LESS ARE TO HAVE I I/2* MINIMIM BEARNS (INO). ALL BEA19 OR BEA19 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). BEA11 ENDS THAT BUTT NTO ONE ANOTHER ARE TO EACH BEAR EQUAL LENGTHS (UNO).
- FLITCH BEAMS SHALL BE BOLTED TOGETHER USING 1/2" DIAMETER BOLTS (ASTIM A3/21) 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 COMPLIANCE WITH THE OVERALL DESIGN SPECIFIED ON THE PLANS, ALL DEVIATIONS ARE TO BE BROUGHT TO THE ATTENTION OF THE ENSINEER OF RECORD PRIOR TO INSTALLATION.
- 10. BRACED WALL PANELS SHALL BE CONSTRUCTED ACCORDING TO THE NORTH CAROLINA RESIDENTIAL CODE 2016 EDITION WALL BRACING CRITERIA. THE AMOUNT, LENGTH, AND LOCATION OF BRACING SHALL COMPLY WITH ALL APPLICABLE TABLES IN SECTION R602.10.
- PROVIDE DOUBLE JOIST INDER ALL WALLS PARALLEL TO FLOOR JOISTS, PROVIDE SUPPORT UNDER ALL WALLS PARALLEL TO FLOOR TRUSSES OR I-JOISTS PER MANIFACTURER'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 (UND). FOR ALL HEADERS 8"-0" AND GREATER IN LENGTH, BOLT A 6" x 4" x 5/16" STEEL ANGLE TO HEADER WITH 1/2" LAG SCREWS AT 12" OC. 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) 12" ANGLE FA PLY BETWEEN WALL STUDS WITH (2) ROUS OF 1/2" LAG SCREWS AT 12" OC. STAGGERED AND IN ACCORDANCE WITH SECTION R1033621 OF THE NORC, 2018 EDITION.
- B. FOR STICK FRAMED ROOFS: CIRCLES DENOTE (3) 2 x 4 POSTS FOR ROOF MEMBER SUPPORT. HIP SPLICES ARE TO BE SPACED A MINIMAN OF 8"-0". FASTE MEMBERS WITH THREE ROUS OF 12d NAILS AT 16" O.C. FRAME DORMER WALLS ON TOP OF DOUBLE OR TRIPLE RAFTERS AS SHOW (VIXO).
- 14. FOR TRUSSED ROOFS: FRAME DORYER WALLS ON TOP OF 2 x 4 LADDER FRAMING AT 24" O.C. DETWEEN ADJACENT ROOF TRUSSES, STICK FRAME OVER-FRAMED ROOF SECTIONS WITH 2 x 8 RIDGES, 2 x 6 RAFTERS AT 16" O.C. AND FLAT 2 x 10 VALLEYS (UNO).
- ALL 4 x 4 AND 6 x 6 POSTS TO BE INSTALLED WITH TOO LB CAPACITY UPLIET CONNECTORS FOR AND BOTTOM (UNC). POSTS MAY BE SECURED USING ONE SIMPSON HE OR LITSE UPLIET CONNECTOR FASTENED TO THE BAND AT THE BOTTOM AND THE BEAM AT THE FOR OF EACH POST. ONE IS "SECTION OF SIMPSON CSIS COIL STRAPPING WITH (8) 8d HDG NAILS AT EACH END MAY BE USED IN LIEU OF EACH TUIST STRAP IF DESIRED, FOR MASONEY OR CONCRETE FOUNDATION USE SIMPSON POST BASE.

FNGINEERING,

66 WADEAUE, SUTTEN HALGOLING,

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N.C. LICENSE ROL. C. J. T. T.

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

SEAL 33736 SEAL WGINEER OF TRANSPORTER TO THE PARTY OF TH

DATE NOVEMBER 14, 2018

DRAWN BY, JES

ENGINEERED BY, JST

S-0 structural notes