TOPSAIL

TOPSAIL REVISION LIST - STRUCTURAL:

- 1,) ADDED I-JOIST SERIES AND SPACING TO SECOND FLOOR FRAMING AND CRAWL (10-17)
- 2.) REMOVED BEDROOM VALUETS AND BALLOON FRAMING (10-17)
- 3.) CHANGED STANDARD HEADER SIZE TO 2 x 6, CALLED OUT 2 x 10 WHERE NECESSARY (10-17)
- 4.) CHANGED TO (3) PLY GARAGE HEADERS (10-17)
- 5.) CODE UPDATE TO NCRC 2018 (1-19)

TOPSAIL REVISION LIST - ARCHITECTURAL:

CHANGES ON 03-30-2020

- CHANGED ALL CORNER BOARDS ON ELEVATIONS FROM 6" TO 4"
- CHANGED NOTE FOR GARAGE LABEL ON ELEVATIONS
- 3. REMOVED GRIDS FROM ALL WINDOWS & DOORS ON SIDES AND REAR ELEVATIONS
- UPDATED ALL COACH LIGHTS ON ELEVATIONS
- REMOVED DUPLICATE DIMENSIONS AND LABELS FROM ALL ELEVATIONS
- 6 DIMENSIONED STONE/BRICK WATER TABLE HEIGHT
- 7. HATCHED 4" ROWLOCK ON WINDOWS IN ELEVATIONS WITH STONE AND BRICK
- 8. UPDATED STONE HATCH TO CURRENT HATCH
- 9. ADDED COLUMN DETAILS ON B-1 AND B-4 ELEVATIONS
- 10. REMOVED HARDWARE ON SHUTTERS ON ALL C ELEVATIONS, CHANGED TO SHOW B&B
- 11.0 SEPARATED ALL OPTIONS FROM BASE PLAN TO CORRESPONDING SHEETS
- 12. ADDED DIAGONAL DIMENSION ON SLAB INTERFACE PLAN
- 13. ADDED PLUMBING DROPS TO SLAB INTERFACE PLAN
- 14. ADDED CONDUIT IN KITCHEN OF THE SLAB INTERFACE PLAN
- 15 CHANGED COLUMN ON PATIO TO 8"x8"
- 16. CHANGED EXTERIOR WALLS FROM 2x6 TO 2x4 EXCEPT AT SHADED AREAS
- 19. REMOVED ALL 2x6 NOTES
- 20. UPDATED ALL INTERIOR ROOM DIMENSIONS
- 21. ADDED HOSE BIBS TO PLANS
- 22 UPDATED SQUARE FOOTAGES
- 23. ADDED SQUARE FOOTAGE WITH FULL BRICK VENEER
- 24. PATIO CHANGED TO 12'x10'
- 25. FLIPPED TUB AND REMOVED ACCESS AND NOTE FROM OWNER'S BATH I
- 26. ADDED NOTE TO LAUNDRY
- 27. ADDED OPTIONAL FLOOR OUTLETS
- 28. REMOVED ALL OUTLETS ON ELECTRICAL PLAN (EXCEPT OPT, FLOOR OUTLETS)
- 29. REMOVED ALL TV OUTLETS
- 30. REMOVED ALL PHONE OUTLETS
- 31. SHOWED ALL CEILING FANS DASHED WITH NEW NOTE
- 32. ADDED CO2 DETECTORS
- 33. ADDED NEW ELECTRICAL KEY
- 34. CHANGED SWING OF SERVICE DOOR (7-8-20)
- 35. CHANGED LIGHT IN GARAGE FROM KEYLESS TO CEILING MOUNT (7-8-20)
- 36. CHANGED KITCHEN LIGHT FROM 2 BULB FLUORESCENT TO 3 BULB CEILING MOUNT (7-8-20)
- 37. CHANGED LIGHT OVER KITCHEN SINK TO 1 BULB CEILING MOUNT (7-8-20)
- 38. REMOVED LIGHT IN SECONDARY BATH OVER TUB/SHOWER COMB (7-8-20)

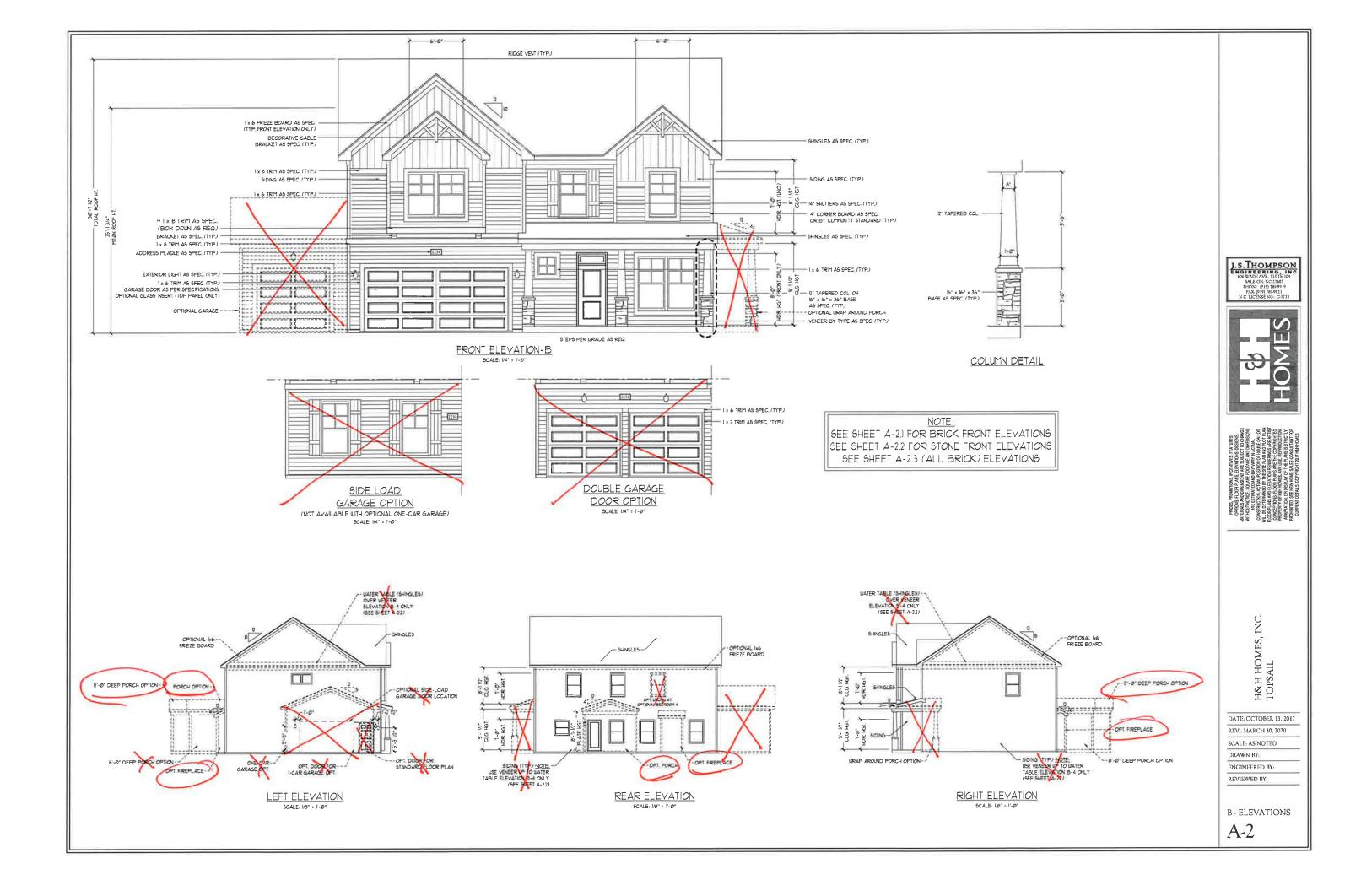
HOMES

COVER SHEET

&H HOME

DATE: OCTOBER 13, 201 REV.: MARCH 30, 2020

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H&H HOMES, INC. TOPSAIL

DATE: OCTOBER 13, 2017 REV.: MARCH 30, 2020

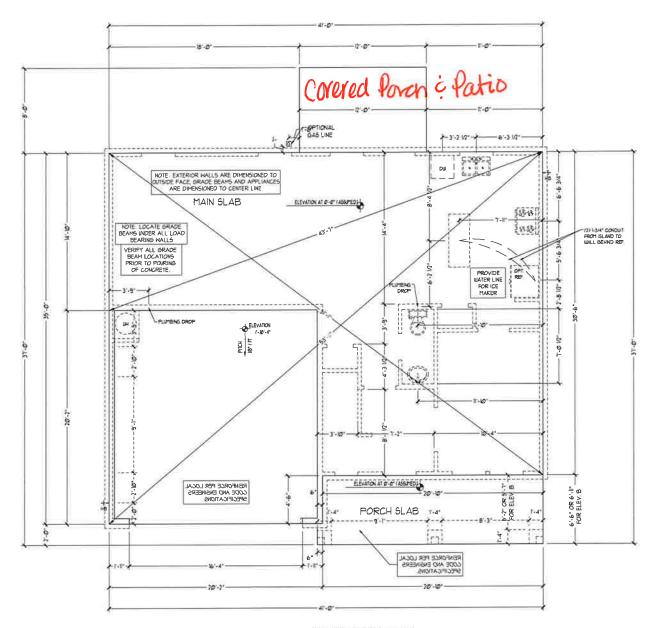
SCALE: AS NOTED

DRAWN BY: ENGINEERED BY:

REVIEWED BY:

B-2 & B-3 ELEVATIONS W/ BRICK

A-2.1



FOUNDATION PLAN

S.THOMPSON

RIGHERING, INC.

606 WADE AVE, SUITE 104

RALEIGH, NC 27605

PHONE (919) 789-9919

FAX. (919) 789-9921

N.C. LICENSE NO. C.1733



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H&H HOMES, INC. TOPSAIL

DATE: OCTOBER 13, 2017

REV.: MARCH 30, 2020

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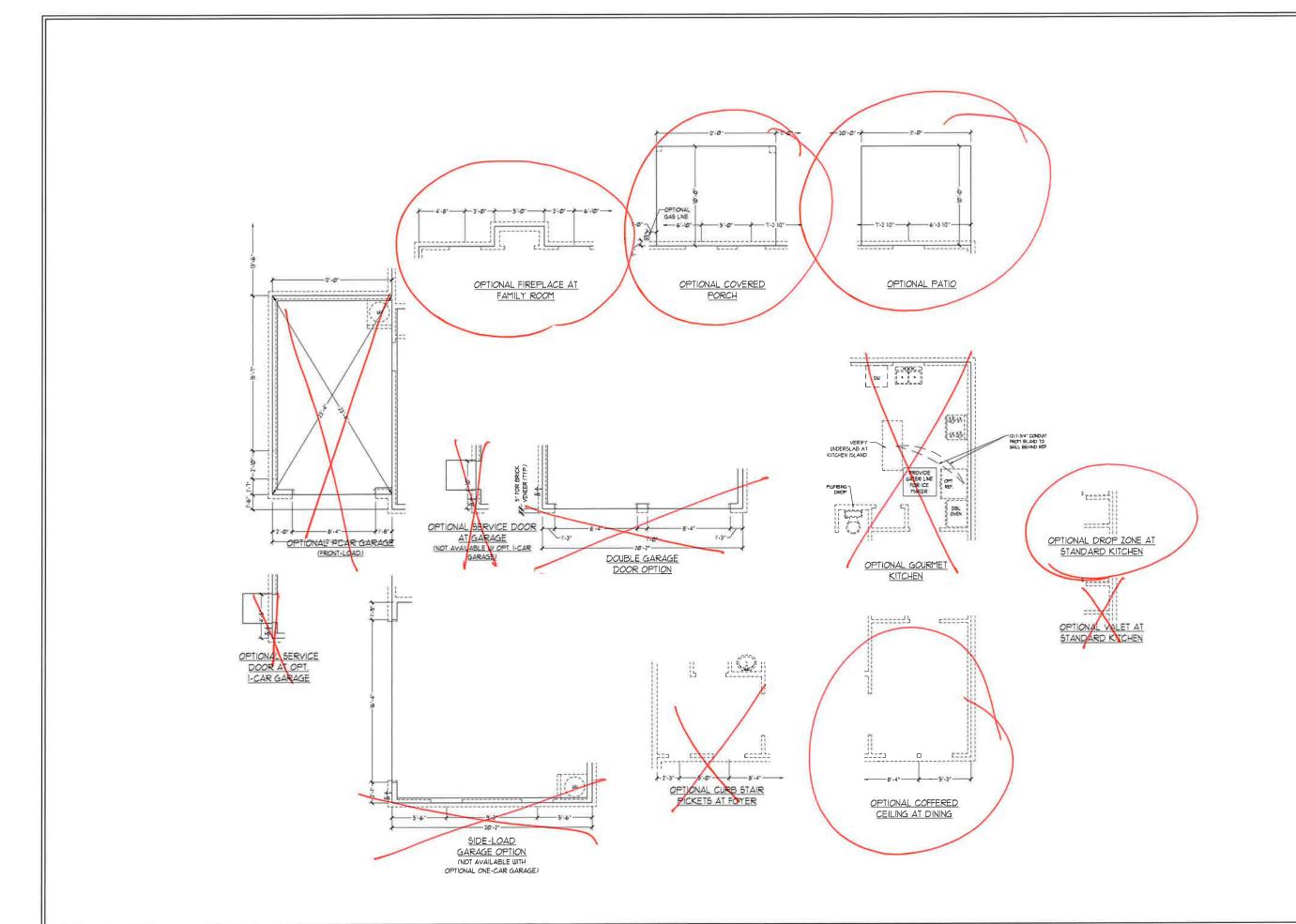
SCALE: 1/4"=1'-0"

DRAWN BY:

ENGINEERED BY:
REVIEWED BY:

SLAB INTERFACE

PLAN
A-4



J.S.THOMPSON ENGINEERING, INC 606 WADE AVE, SUITE 104 RALEIGER, NC 21605 PHONE, 6191 789-9919 FAX. (919) 789-9921 N.C. LICENSE NO., C1733



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H&H HOMES, INC. TOPSAIL

DATE: OCTOBER 13, 2017 REV.: MARCH 30, 2020

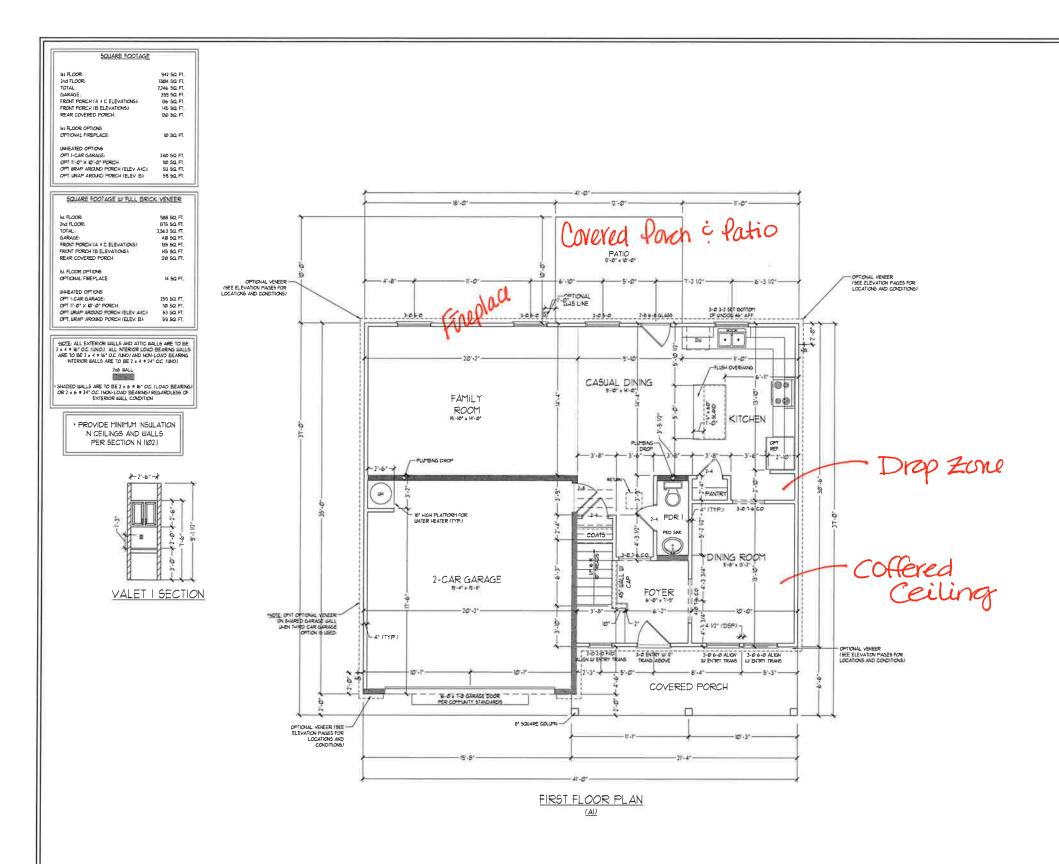
SCALE: I/4"=1'0"

DRAWN BY: ENGINEERED BY:

REVIEWED BY

SLAB INTERFACE PLAN - OPTIONS

A-4.1



J.S.THOMPSON ENGINEERING, INC 606 WADE AVE., SUITE 104 RALEIGH NC 27605 PHONE (9/9) 789-99/19 FAX. (9/19) 789-99/1 NC LICENSENO, C1731)



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H&H HOMES, INC. TOPSAIL

DATE: OCTOBER 13, 2017 REV : MARCH 30, 2020

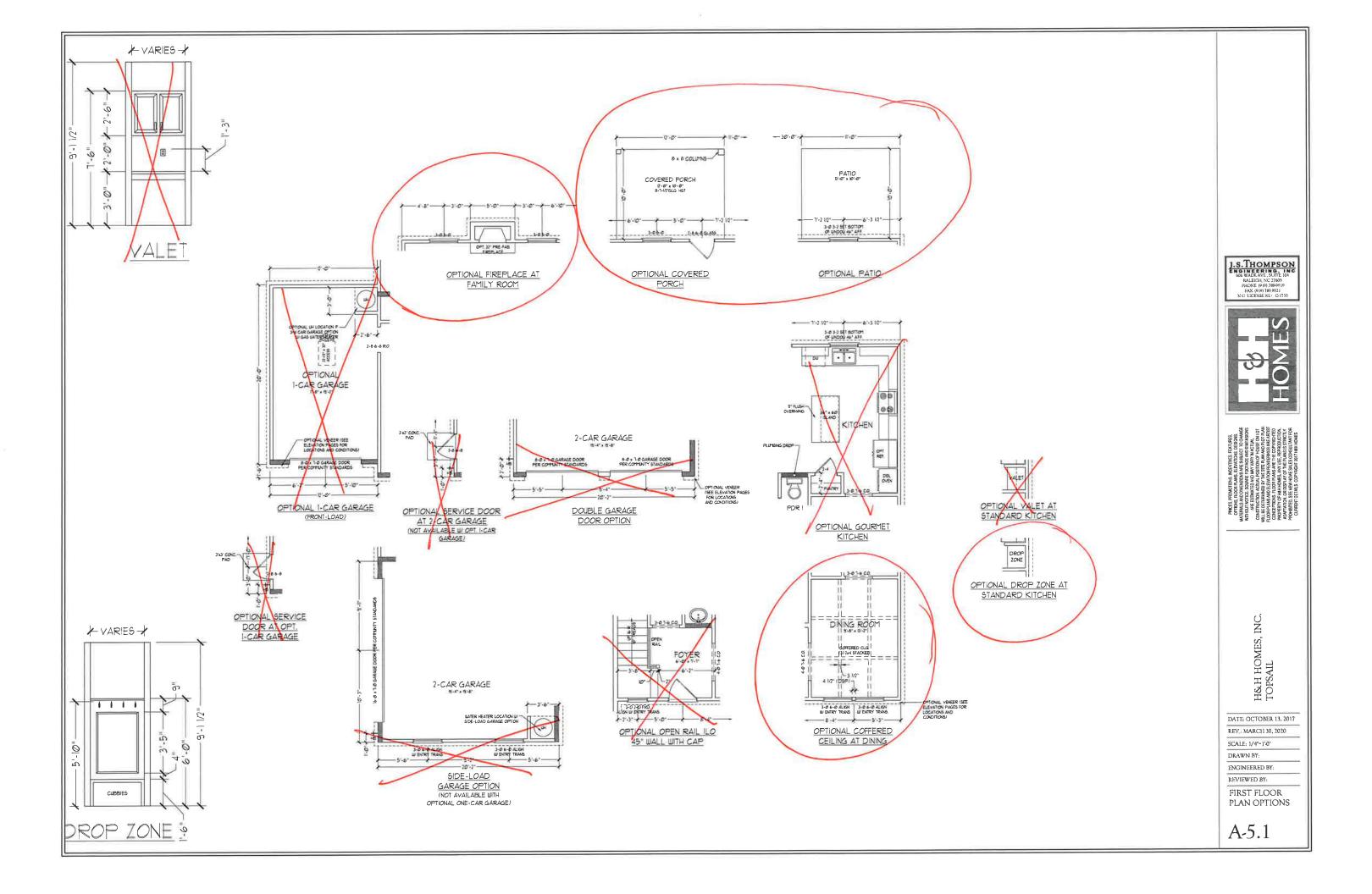
REV.; MARCH 30, SCALE: 1/4"=1'-0"

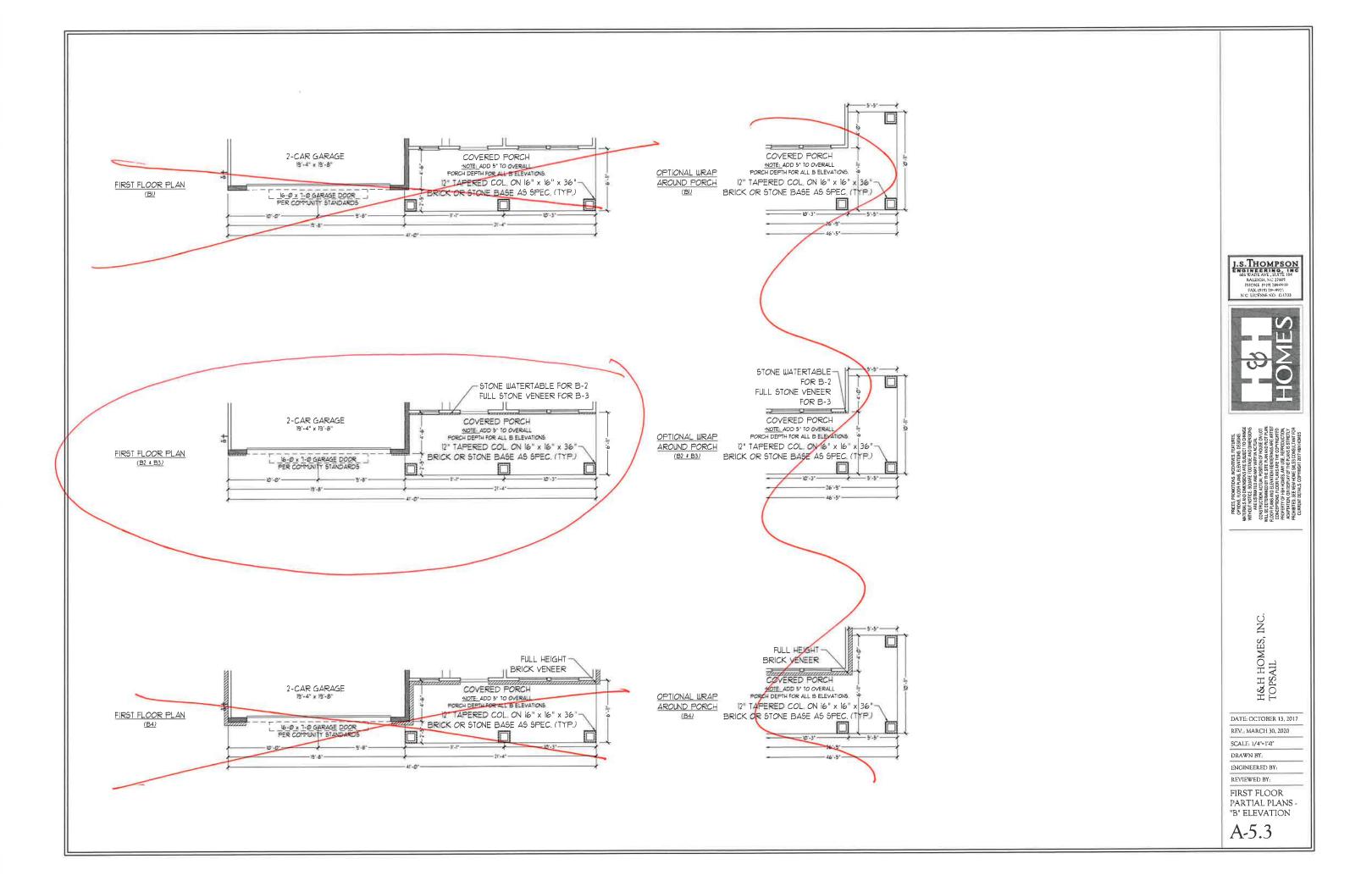
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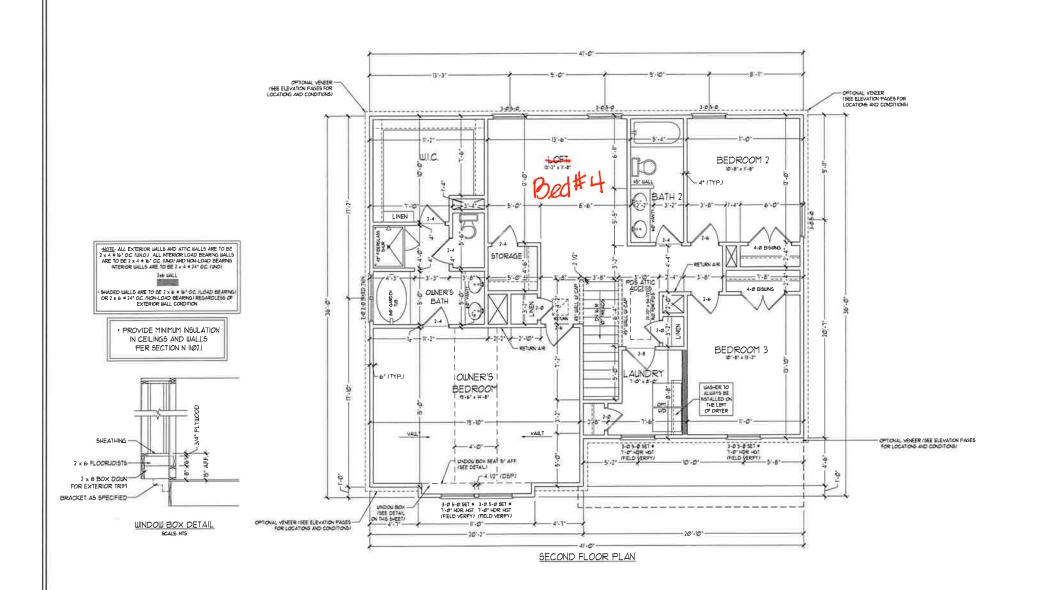
REVIEWED BY:

FIRST FLOOR PLAN

A-5







I.S.THOMPSON ENGINEERING, INC 606 WADE AVE, SUITE 104 PALEIGH, NC 21605 PHONE (919) 789-9919 FAX (910) 789-9921 N C LICENSENC, C1733



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H&H HOMES, INC. TOPSAIL

DATE: OCTOBER 13, 2017

REV: MARCH 30, 2020

SCALE: 1/4"=1'-0"

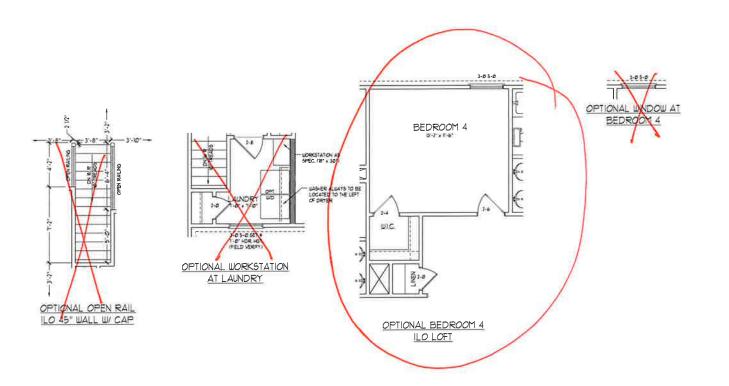
DRAWN BY:

ENGINEERED BY

REVIEWED BY:

SECOND FLOOR PLAN

A-6



I.S. THOMPSON ENGINEERINO INC 606 WADEAVE, SUITE 104 RALEIGH, NC 27605 PHONE (1919 7889991) FAX (919) 789 9921 N C LICENSE NO. C1733



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H&H HOMES, INC. TOPSAIL

DATE: OCTOBER 13, 2017

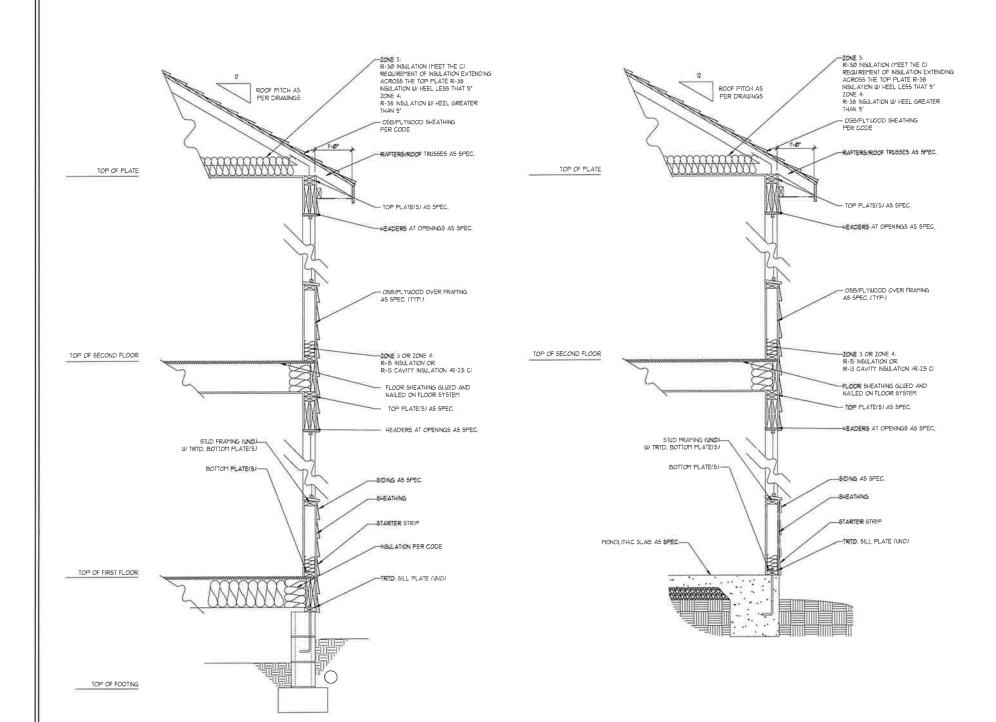
REV.: MARCH 30, 2020 SCALE: 1/4"=1'-0"

DRAWN BY:

ENGINEERED BY: REVIEWED BY:

SECOND FLOOR PLAN OPTIONS

A-6.1



LOW WALL FLOOR SYSTEM BEYOND FLOOR SYSTEM CONTINUOUS NOSING (TYP) GRASPABLE RAILING IN - BEAM-BACKGROUND IX TREADS AND x RISERS (TYP.) 9 TREADS AT 10" EACH

TYPICAL STAIR DETAIL

STAIR NOTES RAILING:

BALUSTERS SHALL BE SPACED SO THAT A 4" SPHERE CANNOT PASS THROUGH

THE TRIANSULAR OPENINGS FORMED BY THE RISER, TREAD AND BOTTOM RAIL OF A GUARD AT THE OPEN SIDE OF A STAIRULAY ARE FERMITTED TO BE A SUCH A SIZE THAT A SPHERE OF 6 INCHES CANNOT PASS THROUGH

OPENINGS FOR REQUIRED GUARDS ON THE SIDES OF STAIR TREADS SHALL NOT ALLOW A SPHERE 4 3/8 INCHES TO PASS THROUGH HANDRALD.

HANDRAILS FOR STAIRUIAYS SHALL BE CONTINUOUS FOR THE FILL LENGTH OF THE FLIGHT, FROM A POINT DIRECTLY ABOVE THE TOP RISER OF THE FLIGHT TO A POINT DIRECTLY ABOVE THE LOUEST RIBER HANDRAIL BUDS SHALL BE RETURNED ON SHALL TERMINATE IN NEUEL POOTS OR SAFETY TERMINATE, HANDRAILS ADJACENT TO A UALL SHALL HAVE A SPACE OF NOT LESS THAN I-I/2 INCH BETWEEN THE WALL AND HANDRAILS.

CONTINUOUS GRASPABLE HANDRAIL MUST MEET TYPE ONE OR TYPE TILD CRITERIA

* * * * * * *

WALL SECTION W/ CRAWL SPACE W/ STD. SIDING SHOWN (NTS)

WALL SECTION W/ SLAB W/ STD. SIDING SHOWN (NTS)

J.S. THOMPSON



H&H HOMES, INC. TOPSAIL

DATE: OCTOBER 13, 2017

REV :: MARCH 30, 2020

SCALE: 1/4"-1'-0"

DRAWN BY:

ENGINEERED BY: REVIEWED BY

WALL SECTIONS

DETAIL

AND STAIR

AD-1

ELECTRICAL LAYOUT NOTES:

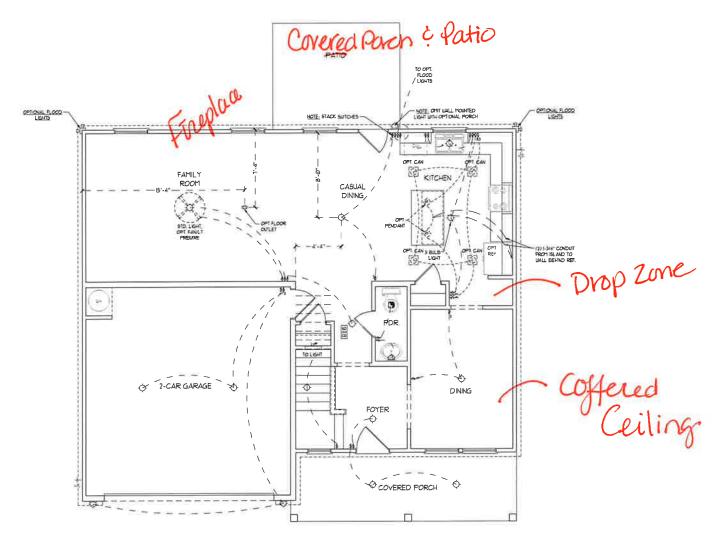
1) BLOCK AND WIRE FOR ALL
CELING FANS FER PLAN.

2) VANITY LIGHTS TO BE SET # 90" AFF, (TYP.)

3J ADDITIONAL EXTERIOR OUTLETS REQUIRED BY CODE TO BE LOCATED BY ELECTRICIAN.

4) PLACE SUITCHES 8" (MINJ FROM ROUGH OFFENINGS

ELECTRICAL L	.EGEND
IND Y CUTLET	*
WALL HOUNT LIGHT	△
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EYEBALL LIGHT	(E)
FLUORESCENT LIGHT	>
2 LAMP, 4" FLUORESCENT LIGHT	=
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3-WAY SWITCH	· š
4-WAY SWITCH	š
DIMMER SWITCH	8
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CO DETECTOR	co
EXHAUST FAN	
LOW VOLTAGE PANEL	TVP
CEILING FAN	X
CEILING FAN IW LIGHT	



FIRST FLOOR PLAN

I.S. THOMPSON
ENGINEERING INC
608 WADE AVE, SUITE 104
MAINTHOIL NC 21005
PHONE (9) 193 99991
NC LICENSENO C1733



WERS, FAMBURIS SEMERINES SHERINES TO CHANGE SHERINES SHER

H&H HOMES, INC. TOPSAIL

DATE: OCTOBER 13, 2017

REV : MARCH 30, 2020

SCALE: 1/4"=1'-0"

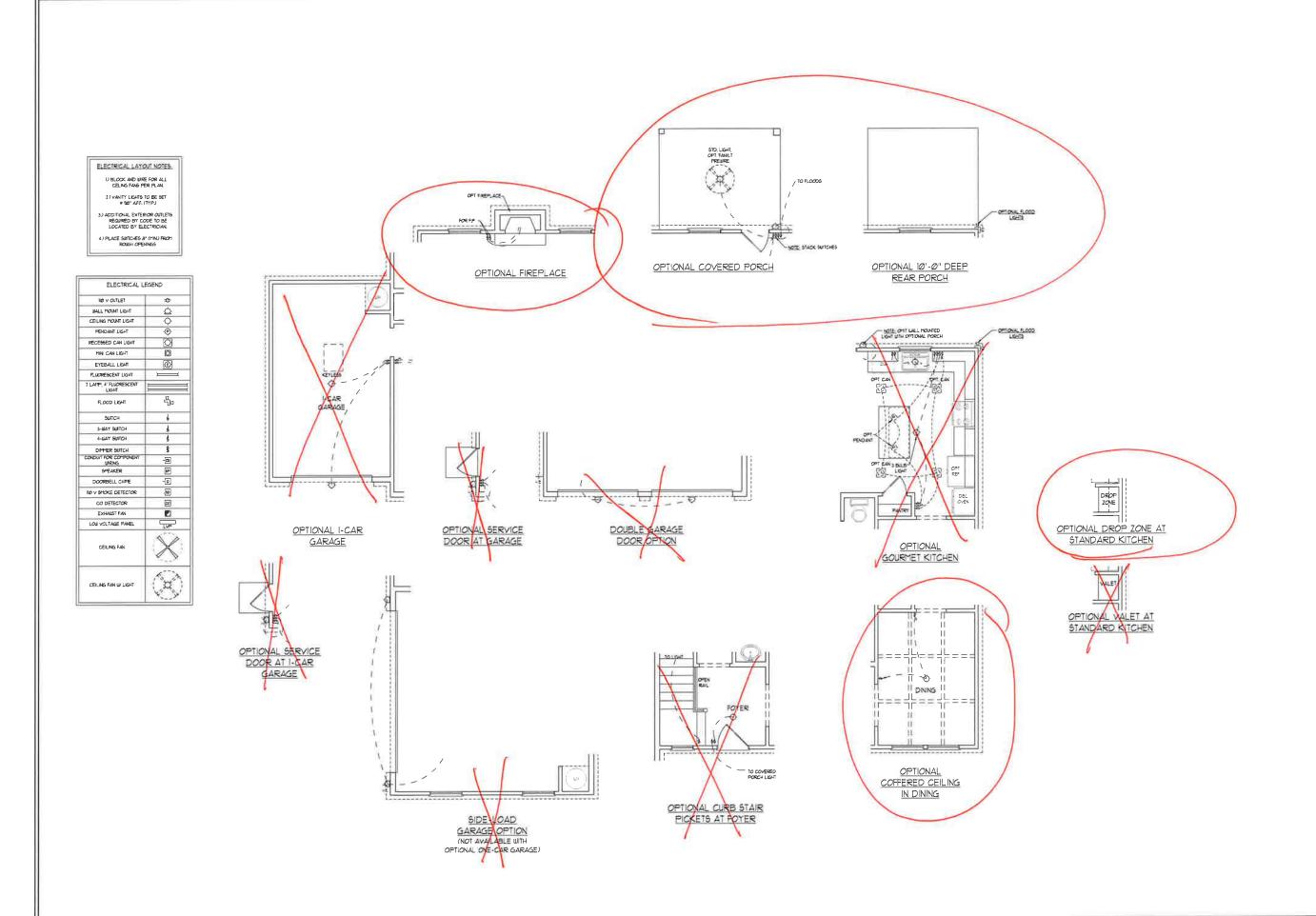
DRAWN BY:

ENGINEERED BY:

REVIEWED BY:

FIRST FLOOR ELECTRICAL PLAN

E-1



J.S. THOMPSON ENGINEERING INC 608 WADE AVE. SUITE 104 PHON: 19.01 188-9919 FAX. (9): 158-9921 N.C. LICENSE NO. C1733



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H&H HOMES, INC. TOPSAIL

DATE: OCTOBER 13, 2017 REV.: MARCH 30, 2020

SCALE: 1/4"=1'-0"

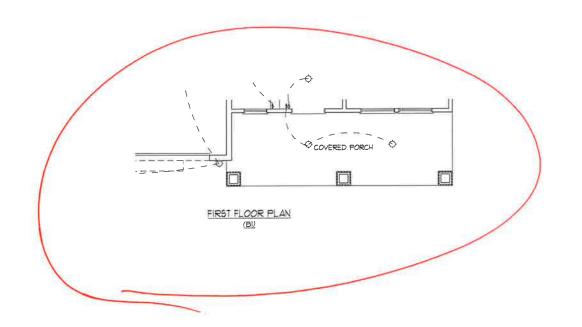
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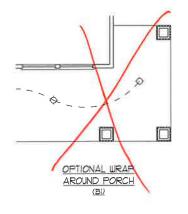
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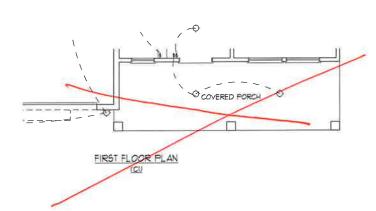
FIRST FLOOR ELECTRICAL

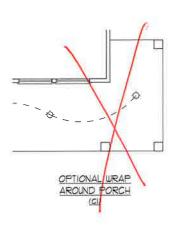
PLAN - OPTIONS

E-1









J.S.THOMPSON ENGINEERING, INC 606 WADE AVE, SUITE 104 RALEIGH, NC 27605 PHONE, (9) 178-991 FAX, (9) 178-9921 NC LICENSENO C1733



H&H HOMES, INC. TOPSAIL

DATE: OCTOBER 13, 2017 REV:: MARCH 30, 2020

SCALE: 1/4"=1'-0" DRAWN BY:

ENGINEERED BY:

REVIEWED BY:

FIRST FLOOR ELECTRICAL PARTIAL PLANS

E-1.2

ELECTRICAL LAYOUT NOTES

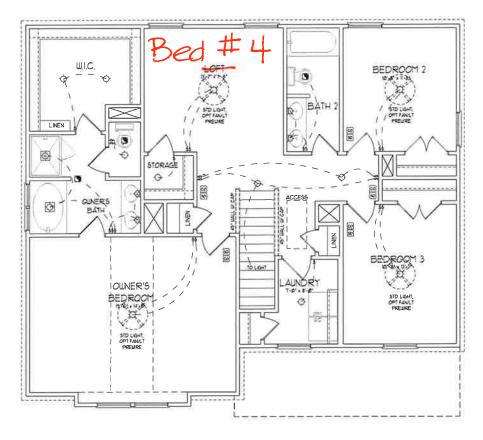
U BLOOK AND WRE FOR ALL CELING FANS PER PLAN.

2) VANITY LIGHTS TO BE SET # 920" AFF, (TYP)

3J ADDITIONAL EXTERIOR QUILETS REQUIRED BY CODE TO BE LOCATED BY ELECTRICIAN

4) PLACE SUITCHES 8" (MIN) FROM ROUGH OPENINGS

ELECTRICAL I	.EGEND
IIØ V OUTLET	
WALL MOUNT LIGHT	Ω
CEILING MOUNT LIGHT	0
PENDANT LIGHT	0
RECESSED CAN LIGHT	Ŏ
MINI CAN LIGHT	53
EYEBALL LIGHT	0
FLUCRESCENT LIGHT	
? LAMP, 4" FLUORESCENT LIGHT	<u> </u>
FLOOD LIGHT	70
SWITCH	4
3-WAY SWITCH	1
4-WAY SWITCH	3
DIMMER SWITCH	- 3
CONDUIT FOR COMPONENT URNG	-0
SPEAKER	(ir)
DOORBELL CHIME	-0
NO V SMOKE DETECTOR	9
CO DETECTOR	88
EXHAUST FAN	(3)
LOW VOLTAGE PANEL	
CEILING FAN	X
CEILING FAN IUV LIGHT	



SECOND FLOOR PLAN

S. THOMPSON NOTINEERING INC 606 WADEAVES SUITE 104 RALEIGH, NC 27605 PHONE (9.19) 789-99-1 FAX. (9.19) 789-99-21 NC LICENSE NO. C1733



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H&H HOMES, INC. TOPSAIL

DATE: OCTOBER 13, 2017

REV : MARCH 30, 2020

SCALE: 1/4"=1'-0"

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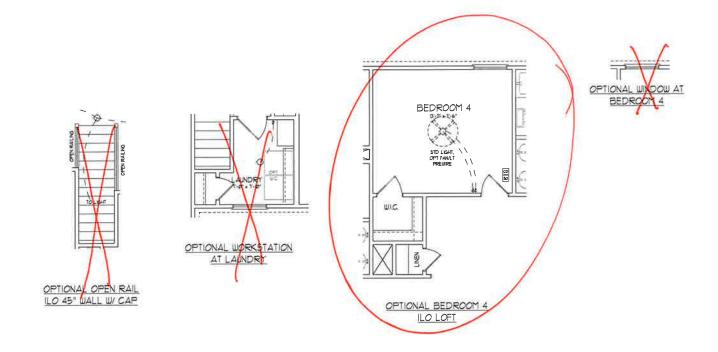
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REVIEWED BY:

SECOND FLOOR ELECTRICAL PLAN

E-2

ELECTRICAL L	EGLAD
IIØ V CUTLET	+
WALL MOUNT LIGHT	Ω
CEILING MOUNT LIGHT	0
PENDANT LIGHT	· (P)
RECESSED CAN LIGHT	Ø
MINI CAN LIGHT	Ø
EYEBALL LIGHT	(3)
FLUORESCENT LIGHT	<u> </u>
2 LAMP, 4' FLUORESCENT LIGHT	<u> </u>
FLOOD LIGHT	₹6
эштсн	å
3-MAY SWITCH	- 4
4-WAY SWITCH	8
DIFFER SUITCH	3
CONDUIT FOR COTPONENT	-@
SPEAKER	9
DOORESELL CHIME	-0
IØ V SMOKE DETECTOR	80
CO DETECTOR	60
EXHAUST FAN	
LOW VOLTAGE PANEL	
CEILING FAN	X
CEILING FAN W LIGHT	



I.S. THOMPSON

INGINEERING INC

606 WADEAVE, SUITE 104

RALEIGH NC 27605

PHONE (9 19) 1899919

FAX (9 19) 7899921

NC LICENSENO. C 1733



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H&H HOMES, INC. TOPSAIL

DATE: OCTOBER 13, 2017

REV.: MARCH 30, 2020

SCALE: 1/4"=1'0"

DRAWN BY:

ENGINEERED BY:

REVIEWED BY:
SECOND FLOOR
ELECTRICAL
PLAN OPTIONS

E-2.1

30' MEAN ROOF HEIGHT!

SOLITION BOOK HEIGHT

DIAMERYS SEAL APPLIES OUT TO

STRICTURAL COPY-MAINTS, BIANDERYS

SEAL DOES NOT CERTIFY DYNESIONAL

ACCURACY OF ARCHITECTURAL LAYOUT

NALUDIAS ROOF SYSTEM

STRICTURAL DESGIN FER NORTH

CAROL NA RESIDENTIAL CODE, 1989

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FOR HORSE OF THE MORTH CAROL NA

RESIDENTIAL CODE, 2989 EDITION

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AND -31 PSF FOR ROOF PTICAS D' IN

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THE CODE SALED TO THE MORTH

CAROL NA RESIDENTIAL CODE, 2989

EDITION AND AS MORTED OR FLANS

DERRY EFFICIENT COTPLIANCE AND

NALITATION NALISS OF THE BUILDING TO

BE IN ACCORDANCE WITH CHAPTER II OF

THE MORCE, 2999 EDITION

NOTES FOR LESS THAN 30' MEAN ROOF HEIGHT:

20" MEAN ROOF HEIGHT.

BIGNERRY SEAL APPLES ONLY TO MINISTRANCE CONCENSIONS DIMERTS SEAL APPLES ONLY TO MINISTRANCE CONCENSIONS DIMERTS SEAL DOES NOT CERTIFY DIPOSICIALA. ACCIRACY OR ARCHITECTURAL LAYOUT MALUDAS ROOF SYSTEM.

STRUCTURAL DESIGN PER NORTH CAROLINA RESIDENTIAL CODE, 200 EDITION.

SISTALL LIV. ANGOUR BOUTS 6"-0" OF AND UITHIN 1"0" REAT BUD OF EACH COPIER. MICHORY BOUTS 1"1" A THE BUD IN 1"1" AND THE DESIGN OF THE BUD THE 1"1" AND THE STANDARD OF THE DESIGN THE STANDARD OF THE DESIGN OF THE BUD THE STANDARD PERSONNEL ("PP.)

FURCH CALADDAS DESIGNED FOR 40 JPF AND 1.00 PET AND THE STANDARD PET AND 1.00 PET AND

TOPSAIL H&H HOMES

DATE NOVEMBER 2, 2020

SCALE 1/4" = 1'0" DRAWN BY LIGHT HOMES

ENGINEERED BY WFB

OF 8 S-1b MONO SLAB FOUNDATION PLAN

YANYANYANYANYANY

ON C 17605

ENGINEERING, I 606 WADE AVE SUTE OF TALIGH, NC 271 PHONE, (915) 789-999-9 FAX, (919) 789-999-1 NC. LICENSE NO. C. LICENSE NO.

CONTR 2'-1 1/2"

FILL BETWEEN HEADERS SOLID WINN STIDS STRAP HDRS TO SHEER W (2) 5' LONG SIMPSON CSW COLL STRAPS INSTALLED TOP AND BOLLOTTON INSIDE FACE OF HDRS

SIDE-LOAD

GARAGE OPTION

(NOT AVAILABLE IIITH

OPTIONAL ONE-CAR GARAGE)

CONTR 2'-1 1/2"

DOUBLE GARAGE

DOOR OPTION

BRACED WALL DESIGN NOTES:

- PRACED WALL DESIGN PER SECTION R602 & OF THE NCRC 2018 EDITION.
 CS-WSP REFERS TO "CONTINUOUS SHEATHING WOOD STRUCTURAL PANELS" CONTRACTOR IS TO MSTALL TIME" OSB ON ALL EXTERIOR WALLS ATTACHED W 60 MAILS SPACED 6" OC ALONG PANEL EDGES MON 12" OC. IN THE FIELD, GB REFERS TO "SYPSIM BOARD" CONTRACTOR IS TO MSTALL 7" (TIM) 19 "PSIM WALL BOARD WIFER NOTE ON THE PLANS FASTEN GB WITH I IN" SCREWS OR I JIS" NAILS SPACED 1" OC ALONG PAIR ERGES AND IN THE REID MAILS SPACED 1" OC ALONG PAIR ERGES AND INTERIED MAILS SPACED 1" OC
- ALONG PANEL EDGES AND IN THE FIELD INCLUDING TOP AND
- ALONG PANEL EDGES AND IN THE HELD INCLIDING FOR AND BOTTOM PLATES BRACED WALL DESIGN APPLIED IN WIND ZONES UP TO 180 MPH FOR HIGH WIND ZONES BRACE WALLS ARE TO BE CONSTRUCTED IN ACCORDANCE WITH CHAPTER 45 OF THE NORC 2016 EDITION SEE NOTES AND DETAIL SHEETS FOR ADDITIONAL BRACED WALL INFORMATION

BRACED WALL DESIGN

RECTANGLE A SIDE IA (FRONT LOAD) METHOD: CS-WSP/FF/GB TOTAL REQUIRED LENGTH: 151' TOTAL PROVIDED LENGTH 216' SIDE 2A METHOD C5-W6P TOTAL REQUIRED LENGTH (5)

SIDE 3A (SIDE LOAD) METHOD: C5-U5P/FF/GB TOTAL REQUIRED LENGTH [155] TOTAL PROVIDED LENGTH: 2012

SIDE 4A METHOD: C5-WSP TOTAL REQUIRED LENGTH 1155" TOTAL PROVIDED LENGTH 35"

RECTANGLE B

SIDE IB METHOD: CS-IIISP/PF TOTAL REGUIRED LENGTH 456 TOTAL PROVIDED LENGTH: 6' SIDE 2B METHOD: CS-WSP TOTAL REQUIRED LENGTH IS."

TOTAL PROVIDED LENGTH: 2066'

TOTAL PROVIDED LENGTH: 12'

TOTAL PROVIDED LENGTH: 12'

SIDE 3B METHOD CS-USP TOTAL REQUIRED LENGTH 20.14 TOTAL PROVIDED LENGTH: 31.45

TOTAL REQUIRED LENGTH, 319'
TOTAL PROVIDED LENGTH, 1958'
SDE 49/34 CLM ATIVE
METHOD, C5-USP/GB

TABLE R602.T5 MINIMUM NUMBER OF FULL HEIGHT STUDS AT EACH END OF HEADERS IN EXTERIOR WALLS

HEADER SPAN (FEET)	MAXIMUM STUD SPACING (INCHE (FER TABLE R6073(5)		
	16	24	
UP TO 3	1.	1	
4'	2	16	
8'	3	2	
D '	5	3	
16'	6	4	

STRUCTURAL NOTES:

- ALL FRAMING LUMBER TO BE SFF 12 (UNO). ALL TREATED LUMBER TO BE SYP 12 (UNO.)
 ALL LOAD BEARING HEADERS TO BE (2) 2 x 6
- INSTALL AN EXTRA JOIST UNDER WALLS PARALLEL TO FLOOR JOISTS WHERE NOTED ON THE PLANS UNDOU AND DOOR HEADERS TO BE SUPPORTED W/ (1) JACK STUD AND (1) KING STUD EA. END (UNO). SEE TABLE RG02.15 FOR ADDITIONAL KING STUD
- REQUIREMENTS.
 SQUARES DENOTE POINT LOADS WHICH REQUIRE
- SOLID BLOCKING TO GIRDER OR FOUNDATION.
 ALL SQUARES TO BE (?) STUDS (IMO)
 FOR HIGH UND ZONES, ALL EXTERIOR WALLS TO
 BE SHEATHED WITH TIME 'OSS SHEATHING WITH
 JOINTS BLOCKED AND SECURED WITH BE MAILS AT 3" O.C. ALONG EDGES AND 6" O.C. N THE FIELD.
- FOR HIGH IDNO TONES SECURE ALL EXTERIOR MALL SHEATHING PARELS TO DOUBLE TOP
 PLATES, BANDS, JOISTS, AND GIRDERS WITH (2)
 ROWS OF 8d NAILS STAGGERED AT 3" O.C. PARELS
 SHALL EXTEND 12" BEYOND CONSTRUCTION JOINTS AND SHALL OVERLAP GIRDERS AND DOUBLE SILL PLATES THEIR FULL DEPTH
- PLATES THEIR MILL DEPTH.
 ALL 4 x 4 POSTS SHALL BE ANCHORED TO SLABS
 W/SIMPSON ABU44 POST BASES (OR EQUAL) AND
 6 x 6 POSTS W/ABU66 POST BASES (OR EQUAL) (UNO). ALL 4 x 4 AND 6 x 6 POSTS TO BE INSTALLED WITH 100 LB CAPACITY UPLIFT
- INSTALLED WITH 700 LB CAPACITY UPLIFIC CONNECTORS AT TOP (MO). FOR FIBERGLASS, ALUMINIM, OR COLLIMN ENG, BY OTHERS, SECURE TO SLAB W (2) "HETAL ANGLES USING 2" CONC. SCREUB FASTEN ANGLES TO COLLIMNS W 1/4" THROUGH BOLTS W NUTS AND IIIASHERS LOCATE ANGLES ON OPPOSITE SIDES OF COLUMN THROUGH BOLTS MUST BE INSTALLED PRIOR TO SETTING COLUMN.
 REFER TO NOTES AND DETAIL SHEETS FOR
- ADDITIONAL STRUCTURAL INFORMATION

DSP - DOUBLE STUD POCKET TSP - TRIPLE STUD POCKET

LINTEL SCHEDULE FOR BRICKNATURAL STONE SUPPORT

LENGTH (FT.)	SIZE OF LINTEL
UP TO 4 FT.	L 3 V2 x 3 V2 x V4
4-8	L 5 x 3 1/2 x 5/16 LLV
6 AND GREATER	L 6 x 4 x 5/16 LLV

BRICK SUPPORT NOTES.

- LINTEL SCHEDULE APPLIES TO ALL OPENINGS IN BRICK VENEER (UNO).

 SEE ARCH DIUGS FOR SIZE AND LOCATION OF OPENINGS.

 (LLY) = LONG LEG VERTICAL
- 3. LENGTH : CLEAR OPENING 4. EMBED ALL ANGLE IRONS MIN 4" EACH SIDE INTO VENEER TO PROVIDE
- 5. FOR ALL HEADERS 8'-0" AND GREATER IN LENGTH, ATTACH STEEL ANGLE TO HEADER W/ 1/2" LAG SCREWS . IZ O.C. STAGGERED. TO HEADER WI (II" LAG SCREUS 9 (I" OC. STAGGERED.

 6. FOR ALL PERICK SUPPORT 9 ROOF LINES FASTEN (2) 2 × 10 BLOCKING
 BETWEEN STUDS WI (4) I/A NAILS PER PL.Y. FASTEN A 6" × 4" × 5"16" STEEL
 ANGLE TO (2) 2 × 10 BLOCKING WI (2) I/I" LAG SCREUS 9 (I" OC.
 STAGGERED SEE SECTION RIOSD21 OF THE 2018 NORE FOR ADDITIONAL
 BRICK SUPPORT HOOPMATION.

 1. PRECAST PERIORCED CONCRETE LINTELS DISINEERED BY OTHERS MAY
 BE USED IN LIEU OF STEEL LINTELS.

TOPSAIL 1&H HOMES

ON CONTRACTOR

W - N C

ERING.
SUITE 104 RALEGH, 37 T89,5919 FAX. (919) 78

ENGINEE GOG WADE AVE, SUN PHONE: (919) 789.

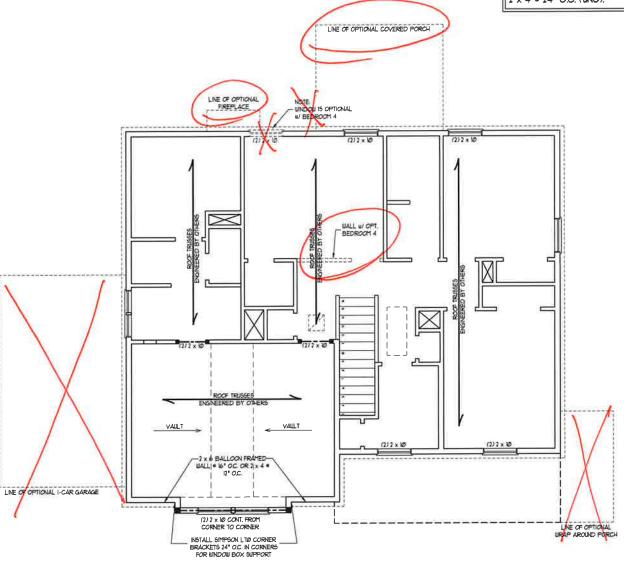
DATE NOVEMBER 2, 2020 SCALE 1/4" - 1"0"

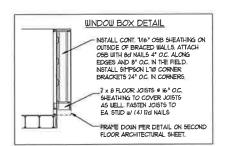
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OF 8 S-2

SECOND FLOOR

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







BRACED WALL DESIGN NOTES

- BRACED WALL DESIGN PER SECTION R60210 OF THE NCRC
- BRACED WALL DESIGN PER SECTION R602 NO OF THE NORC 20/8 EDITION
 C5-USP REFERS TO YCONTINUOUS SHEATHING WOOD
 STRUCTURAL PANELS" CONTRACTOR 15 TO NSTALL TWE '058
 ON ALL EXTERIOR WALLS ATTACHED W 8d NAILS STACED 6"
 OC. ALONS PANEL EDGES AND 1" OC. IN THE FIELD.
 (2" (TIN) 3 YPSUM WALL BOARD" CONTRACTOR 15 TO INSTALL 12" (TIN) 3 YPSUM WALL BOARD" CONTRACTOR 15 TO INSTALL 12" (TIN) 4 YPSUM WALL BOARD WALRER NOTED ON THE PLANS FASTEN GB WITH 114" SCREED OR 15/8" NAILS SPACED "O OL ALONS PANEL EDGES AND IN THE FIELD INCLUDING TOP AND BOTTOM PLATES

 BRACED WALL DESIGN APPLIED IN WIND ZONES UP TO 180 MPH FOR HIGH WIND ZONES WE TO SECONSTRUCTED IN ACCORDANCE WITH CHAPTER 45 OF THE NORC 20/8 EDITION SEE NOTES AND DETAIL SHEETS FOR ADDITIONAL BRACED WALL NORMATION.
- WALL INFORMATION

NOTE:

- PER SECTION R6021032 OF THE 2016 NGRC, THE AMOUNT OF BRACING ON THE SECOND FLOOR EXCEEDS THE AMOUNT REQUIRED FOR THE FIRST FLOOR AND NO BRACED WALL ANALYSIS IS REQUIRED.
- SHEATH ALL EXTERIOR WALLS WITH 1/16" OSB SHEATHING ATTACHED WITH 8d NAILS AT 6" OC, ALONG PANEL EDGES AND 12" O.C IN THE FIELD

LINTEL SCHEDULE FOR BRICKMATURAL STONE SUPPORT			
LENGTH (FT.)	SIZE OF LINTEL		
UP TO 4 FT	L 3 1/2 x 3 1/2 x 1/4		
4-8	L 5 x 3 l/2 x 5/l6 LLV		
8 AND GREATER	L 6 x 4 x 5/16 LLV		
	BRICKNATURA LENGTH (FT.) UP TO 4 FT.		

BRICK SUPPORT NOTES

- LINTEL SCHEDULE APPLIES TO ALL OPENINGS IN BRICK VENEER (UNO). SEE ARCH DUIGS, FOR SIZE AND LOCATION OF

- ARCH DUIGS, FOR SIZE AND LOCATION OF OPENINGS.
 (ILLY) = LONS LEG VERTICAL LENGTH = CLEAR OPENING PIPED ALL ANGLE IRONS INN. 4" EACH SIDE INTO VENEER TO PROVIDE BEARNAS FOR ALL HEADERS 9"-0" AND GREATER N. LENGTH, ATACH STEEL ANGLE TO HEADER W 1/3" LAG SCREUS = 12" OC.
- STAGGERED.
 FOR ALL BRICK SUPPORT & ROOF LINES, FOR ALL BRICK SUPPORT ® ROOF LINES, FASTEN (12) × 10 BLOCKING BETWEEN STUDS W (4) 12d NAILS PER PLY, FASTEN A 6' x 4' x 5 16' STEEL ANGLE TO (2)' x W BLOCKING W (7) 10' LAS SCREUS ® 12' OC. STAGGERED SEE SECTION R10'3321 OF THE 708' NICKE FOR ADDITIONAL BRICK SUPPORT INFORMATION. PRECAST REINFORCED CONCRETE LINTLES SHAMERERED BY OTHERS MAY BE USED IN LIEU OF STEEL LINTELS.

TABLE RG02.15

MINIMUM NUMBER OF RULL HEIGHT STUDS

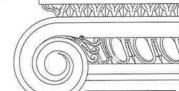
AT EACH END	AF HEADERS IN E	X IERIOR WALL
HEADER SPAN (FEET)	MAXIMUM STUD SPACING (INCHE (PER TABLE R6023(5)	
	16	2.4
UP TO 3'	i	T
4'	2	T.
8'	3	2
12'	5	3
161		4

STRUCTURAL NOTES:

- ALL FRAMING LUMBER TO BE SFF 12 (UNO).
- ALL TREATING LUMBER TO BE SHY "X (UNIX) ALL TREATING LUMBER TO BE SHY "X (UNIX) ALL LOAD BEARING HEADERS TO BE (2) 2 x 6 (UNIX).

 UINDOUL AND DOOR HEADERS TO BE SUPPORTED W (IV) JACK STUD AND (IV) KINS STUD EA BHO (UNIX). SEE TABLE REQUISE LEDITED WIN JACK STUD AND (IV) KINS STUD EA BHO (UNIX). SEE TABLE REQUISE.
- FOR ADDITIONAL KING STUD RECAIREPHENTS.
 SCHARES DENOTE POINT LOADS WHICH
 RECAIRE SOLID BLOCKING TO GIRDER OR
 FOUNDATION. ALL SCHARES TO BE (2) STUDS (UNO.)
- FOR HIGH WIND ZONES, ALL EXTERIOR WALLS FOR HIGH WIND ZONES, ALL EXTERIOR WALLS
 TO BE SHEATHED WITH ING "OBS SHEATHING
 WITH JOINTS BLOCKED AND SECURED WITH
 BOTH NAILS AT 3" OC. ALONG EDGES AND 6"
 OC. IN THE FIELD.
 FOR HIGH WIND ZONES, SECURE, ALL
- FOR HIGH WIND ZONES, SECURES ALL
 EXTERIOR WALL SHEATHING PANELS TO
 DOUBLE TOP PLATES, BANDS, JOISTS, AND
 GIRDDES WITH IZ ROUGE OF BIT ANALLS
 STAGGERED AT 3" OC. PANELS SHALL
 EXTEND IZ" BEYOND CONSTRUCTION JOINTS AND SHALL OVERLAP GIRDERS AND DOUBLE SILL PLATES THEIR FULL DEPTH. REFER TO NOTES AND DETAIL SHEETS FOR ADDITIONAL STRUCTURAL INFORMATION.

TSP - TRIPLE STUD POCKET



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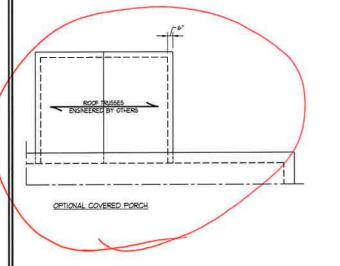
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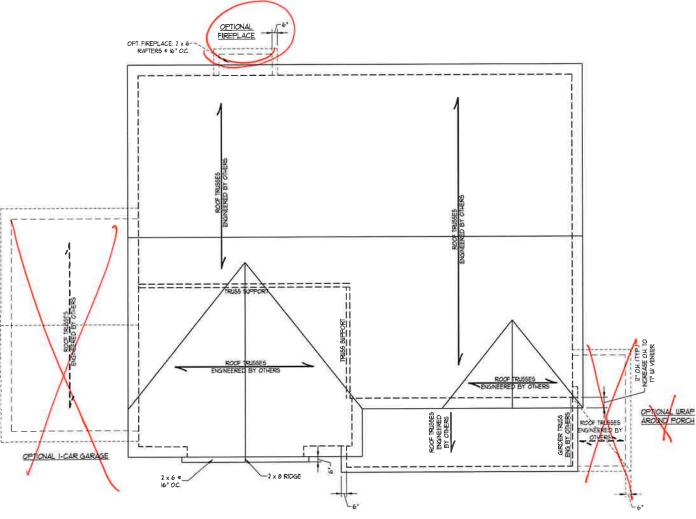
5CALE 1/4" = 1'40"

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SHEET 5 OF 8 S-3

ATTIC FLOOR FRAMING PLAN





ELEVATION B



STRUCTURAL NOTES:

- STRUCTURAL NOTES:

 LALL RAMING LUMBER TO BE 2
 SFF (IMO).

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

 RAMIE DOMER MALLS ON TOP
 OF DOUBLE OR TRIPLE RAFTERS.
 HIP SPLICES ARE TO BE SPACED
 A MIN OF 8'-0". FASTEN
 HEMBERS BUTH HAREE ROUS OF
 I'LD MALLS 9 16'-0C. (TYP-)
 STICK FRAME OVER-FRAMED
 ROOF SECTIONS W 2 x 9 RIDGES,
 2 x 6 RAFTERS 9 16'-0C. AND
 HAT 1 x 10' VALLEY TO USE
 VALLEY TRUSSES.
 FASTEN FLAT VALLEYS TO
 RAFTERS OR TRUSSES BUTH
 SIMPSON USSA HURRICANE
 THES TROUGH MOTE WIN PROOF
 SHATHMIS EACH RAFTER IS TO
 BE FASTENED TO THE FLAT
 VALLEY BUTH A HIN OF (6) TO
 TOE NAILS
 TO SECTION REQUIRED UPLIFT
 RESISTANCE AT RAFTERS DUPLIFT
 RESISTANCE AT RAFTERS DUPLIFT
 RESISTANCE AT RAFTERS DUPLIFT
 RESISTANCE AT RAFTERS AND
 TRUSSES.
- TRUSSES

 REFER TO NOTES AND DETAIL
 SHEETS FOR ADDITIONAL
 STRUCTURAL INFORMATION

BRICK SUPPORT NOTE:

FASTEN (2) 2 x I/O BLOCKING BETILEEN WALL
STUDG W (4) IICH MAILS FERR PLY, FASTEN A
6" x 4" x 5/16" STEEL AVSLE TO (2) 2 x I/O
BLOCKING W (2) I/O" LAG SCREUS 6" 12" OC.
5TAGGERED SEE SECTION RIPPS 21" OC.
1" LE 120 IN CARC FOR ADDITIONAL BRICK
SUPPORT INFORMATION
1" WHERE ROOF SLOPES EXCEED 1:12, INSTALL
3" x 3" x 1/4" STEEL PLATE STOPS AT 24"
OC. PER SECTION RIPPS 21 OF THE NORTH
CAROLINA RESIDENTIAL CODE, 2018
EDITION.

ENGINEERING, INC.
ROCWALE STRING, INC.
ROCWALE SUPPRISON PROPERTY OF THE PARK (1917) 189-9911
N.C. LICENSE NO. C. (733)

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TOPSAIL H&H HOMES

DATE NOVEMBER 2, 2020

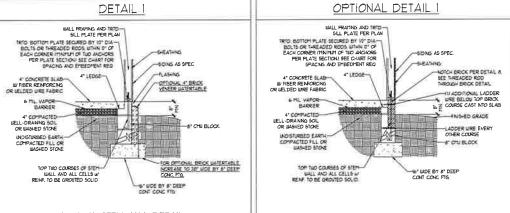
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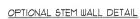
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ROOF FRAMING PLAN

STEMWALL DETAILS

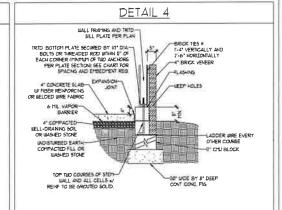


TYPICAL STEM WALL DETAIL (W/ OPTIONAL WATERTABLE)

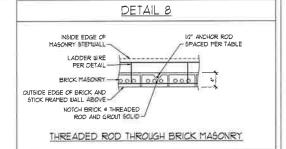


DETAIL 3 DETAIL 2 WALL FRAMING AND THE D SILL PLATE PER PLAN TRID BOTTOM FLATE SECURED BY MY DIA-BOLTS OR THREADED RODS, WITHIN IN OF EACH CORNER (MINIMIN OF TIMO ANCHORS PER PLATE SECTION). SEE CHART FOR SPACING AND EMBEDMENT REQ TRID. BOTTOM PLATE SECURED BY UT DIA-BOLTS OR THREADED ROOS, WITHIN 2" OF EACH CORRER HIMPIUM OF TWO ANCHORS PER PLATE SECTION SEE CHART FOR SPACING AND EMBEDMENT REQ. 1'-4" VERTICALLY AND 2'-6" HORIZONTALLY BRICK VENEER -FLASHNO 4° CONCRETE \$1.45-IIV FIBER REINFORCING OR IJELDED IJIRE FABRIC 6 MIL VAPOR 4" CO-PACTED-WELL-DRAINING SOIL OR WASHED STONE 4" CONTINCTED OTHER COURSE OR WASHED STONE -LADOER URE EVERY OTHER COURSE - 8" C'U BLOCK DADISTURBED EARTH-COMPACTED FILL OR WASHED STONE TO CHU BLOCK MDE BY 8" DEEP MIDE BY B' DEEP TYPICAL STEM WALL FND. W/ BRICK DETAIL TYPICAL STEM WALL FND. DETAIL W/ CURB & GARAGE

OPTIONAL DETAIL 3 2 x 6 WALL FRAHING AND TRID-SILL PLATE PER PLAN 2 x 6 MIN TRID BOTTOM PLATE SECURED BY-V2* DIA BOLTS OR THREADED ROD WITHIN 0* OF EACH CORNER (MINIMUM OF TWO ANCHORS SDNG AS SPEC. -SEATING NOTCH BRICK PER DETAIL 8, SEE THREADED ROO THROUGH BRICK DETAIL WRE BELOW TOP BRICK 6 MIL VAPOR : BARRIER ENILED GRADI 4" COMPACTED OR WASHED STONE CADDER USE EVERY OTHER COURSE -6" CPU BLOCK TOP TWO COURSES OF STEM WDE BY B' DEEP OPTIONAL STEM WALL FND. DETAIL W/ CURB @ GARAGE



TYPICAL STEM WALL FND. DETAIL W/ BRICK AND CURB @ GARAGE



MASONRY STEMWALL SPECIFICATIONS

WALL HEIGHT (FEET)	MASONRY WALL TYPE			
	в" сми	4" BRICK AND 4" CMU	4" BRICK AND B" CMJ	12" CHU
2 AND BELOW	UNGROUTED	GROUT SOLID	UNGROUTED	UNGROUTED
3	UNGROUTED	GROUT SOLID	UNGROUTED	UNGROUTED
4	GROUT SOLID	GROUT SOLID w/ *4 REBAR @ 48" O.C.	GROUT SOLID	GROUT SOLID W/ ** REBAR * 64* OC
5	GROUT SOLID w/ *4 REBAR * 36* OC	NOT APPLICABLE	GROUT SOLID w/ *4 REBAR * 36 * O.C	GROUT SOLID w/ * REBAR © 64" O.C
6	GROUT SOLID w/ "4 REBAR @ 24" O.C.	NOT APPLICABLE	GROUT SOLID w/ *4 REBAR © 24" O.C	GROUT SOLID w/ * REBAR © 64" O.C
1 410 405 4550	ENGINEERED DESCRIPTIONS OF STE CONDITIONS			

- WALL HEIGHT MEASURED FROM TOP OF FOOTING TO TOP OF THE WALL
 TIE MULTIPLE WYTHES TOGETHER WITH LADDER WIRE AT 16" OC. VERTICALLY,
 CHART APPLICABLE FOR HOUSE FOUNDATION ONLY, CONSULT ENGINEER FOR DESIGN OF GARAGE
- FOUNDATION NOT COMMON TO HOUSE BACKFILL OF CLEAN 151 / 161 WASHED STONE IS ALLOWABLE.
- 4 BACKFILL OF CLEAN 51 / Ya I WASHED STONE IS ALLOWABLE

 BACKFILL OF WELL DRANNED OR SAND CRAVEL MIXINEE SOILS (45 PSFAF BELOW GRADE)

 CLASSFIED AS GROUP I ACCORDING TO WINFIED SOILS CLASSFICATION SYSTEM IN ACCORDANCE

 WITH TABLE RAGS OF THE 70/8 INTERNATIONAL RESIDENTIAL CODE ARE ALLOWABLE

 6, PREP SLAB FER RSGG/14 NO PSGG/22 BASE OF THE 20/8 INTERNATIONAL RESIDENTIAL CODE

 MINIMIM 24* LAP SPLICE LENGTH

 1 LOCATE REBAR IN CENTER OF FOUNDATION WALL.

 1 WHERE REGUIRED, FILL BLOCK SOLID WITH TYPE '5' MORTAR OR 30/07 PSI GROUT, USE OF "LOW

 LIFT GROUTING" METHOD REQUIRED WHEN FILLING WALLS WITH GROUT AT HEIGHTS OF 5' AND

 CREATER

- GREATER.

,	ANCHOR SPACING AND	D EMBEDMENT
WIND ZONE	120 MPH	130 MPH
SPACING	6'-0" OC.	4.0.00
EMBEDMENT	Ť	15° INTO MASONRY 1" INTO GONGRETE

Q Z 27605 3 HOMPS EERING SUITE 104 RALEIGH, 5789-9919 FAX; (919) 78 LICENSENO; C.1733

YANYANYANYANYANYANY

SPEED WIND MPH ULTIMATE DESIGN FOUNDATION DETAILS 130 MPH, 20

DATE NOVEMBER 14, 2018 SCALE NTS NGINEERED BY: JES

D-1 FOUNDATION DETAILS



GENERAL WALL BRACING NOTES:

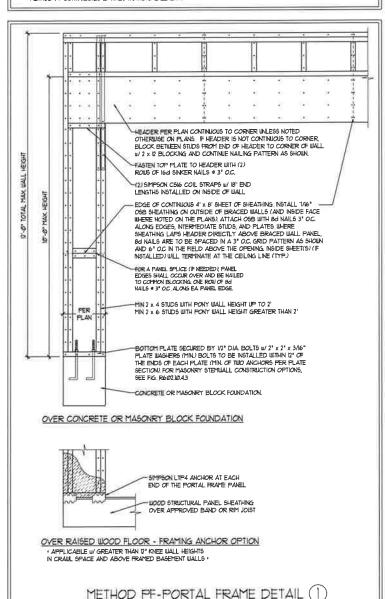
- WALL BRACING DESIGNED IN ACCORDANCE WITH CHAPTER 6 OF THE 2018 NC RESIDENTIAL BUILDING CODE (NCRC).
- TABLES AND FIGURES REFERENCED ARE FROM THE 2019 NORC.

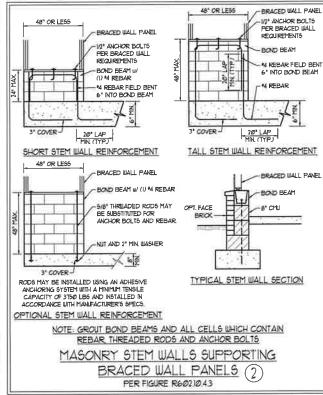
 SEE THIS SHEET FOR GENERAL DETAILS. REFER TO THE 2019 NORC.

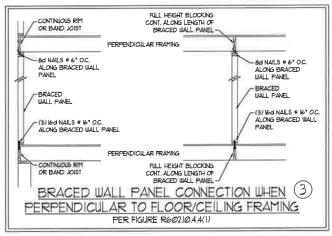
 SEE THIS SHEET FOR GENERAL DETAILS. REFER TO THE 2019 NORC FOR ADDITIONAL INFORMATION AS NEEDED,

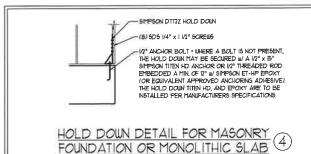
 SEE STRICTURAL SHEETS FOR BRACED WALL LOCATIONS, DIPENSIONS, HOLD DOWN TYPE AND LOCATIONS, BRACED WALL

 LINE KEY WITH WALL DESIGN SUMMARY OF REQUIRED/PROVIDED TOTALS FOR EACH WALL LINE AND ANY SPECIAL NOTES
- 4 ALL EXTERIOR WALLS ARE TO BE SHEATHED WITH CS-WSP IN ACCORDANCE WITH SECTION R602 103 UNLESS NOTED OTHERWISE.
- 5. ALL EXTERIOR AND INTERIOR WALLS TO HAVE 1/2" GYPSUM INSTALLED WHEN NOT USING METHOD "GB", GYPSUM TO BE
- ALL EXTERIOR AND INTERIOR WALLS TO HAVE IN" GYPSIM INSTALLED, WHEN NOT USING METHOD "GB", GYPSIM TO BE
 FASTEDED FIRE TABLE RIVINGS METHOD GB TO BE FASTEDED FOR TABLE REQUID.
 GS-USP REFERS TO THE "CONTINUOS SHEATHING WOOD STRUCTURAL PANELS" WALL BRACING METHOD. 1/6" OSB
 SHEATHING IS TO BE INSTALLED ON ALL EXTERIOR WALLS ATTACHED W GG COTHON NALLS OR BG (2 1/2" LON'S X Ø115")
 DIAPTERS NALLS SPACED OF O.C. ALONG PANEL EDGES AND 1" OC. IN THE FIELD (UNIO).
 GB REFERS TO THE "GYPSIM BOARD" WALL BRACING METHOD. 1/2" (MIN) GYPSIM WALLS SPACED 1" OC. ALONG PANEL EDGES
 INCLIDING TOP AND BOTTION FLATES AND INTERIOR FASTEDER OPTIONS SEE TABLE RIVINGS TO CONSTRUCTION. FOR INTERIOR FASTEDER OPTIONS SEE TABLE RIVINGS. YOR EXTERIOR FASTENER OPTIONS SEE TABLE R6023(I). EXTERIOR GB TO BE INSTALLED VERTICALLY.
- A REQUIRED BRACED UIAL LIENGTH FOR EACH SIDE OF THE CIRCUMSCRIBED RECTANGLE ARE INTERPOLATED PER TABLE R602 103 METHOD CS-WEP CONTRIBUTES ITS ACTUAL LENGTH, METHOD GB CONTRIBUTES 5 ITS ACTUAL LENGTH, AND METHOD FF CONTRIBUTES IS TIMES ITS ACTUAL LENGTH







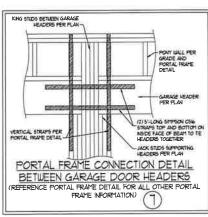


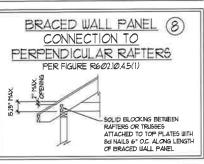
· APPLICABLE ONLY WHERE SPECIFIED ON PLAN ·

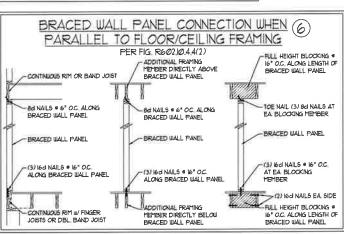
PER FIGURE R602 10 3(5) MIN. 24" WOOD STRUCTURAL SEE TABLE RG00 3(1) PANEL AN 800 LB HOLD DOWN DEVICE MAY BE INSTALLED IN LIEU OF CORNER RETURN - ORIENTATION OF STUD MAY VARY SEE FIGURE R6023(2) GYPSUM WALLBOARD AS REQUIRED AND INSTALLED IN ACCORDANCE 0 12" OC WITH CHAPTER 1 (TYP) CONTINUOS WOOD STRUCTURAL PANEL BRACED WALL LINE SEE TABLE R6/02/3(1) OPTIONAL NON-STRUCTURAL FILLER PANEL -(a) OUTSIDE CORNER DETAIL (5a) ORIENTATION OF STUD MAY VARY SEE FIGURE RE-023/2 16d NAIL (3 V2" x Ø.131" CONTINUOUS WOOD STRUCTURAL PANEL BRACED WALL LINE GYPSUM WALLBOARD AS REQUIRED AND INSTALLED MN 24" BOOD STRUCTURAL PAVEL CORNER RETURN AN 200 LB HOLD DOWN DEVICE MAY BE INSTALLED IN LIEU OF CORNER RETURN IN ACCORDANCE IUITH (b) INSIDE CORNER DETAIL (5b) GYPSUM WALLBOARD AS REQUIRED - SEE TABLE R6023(1) FOR FASTENING AND INSTALLED IN ACCORDANCE WITH CHAPTER T (TYP) MIN 24" WOOD STRUCTURAL SHEATHING PER PLAN PANEL CORNER RETURN AN 800 LB HOLD DOWN DEVICE MAY BE INSTALLED IN LIEU OF CORNER RETURN ASTENERS ON EACH STUD (5C) AT EACH PANEL EDGE (c) GARAGE DOOR CORNER DETAIL (SEE PLAN FOR ADDITIONAL STRUCTURAL INFORMATION OR ALTERNATE CONFIGURATIONS)

TYPICAL EXTERIOR CORNER FRAMING

FOR CONTINUOUS SHEATHING (5)







BRACED WALL PANEL CONNECTION TO PERPENDICULAR ROOF PER FIGURE R602 (0.45(3) OR ALTERNATIVE: FIGURE R602.10.4.5(2)) 2 x BLOCKING MAILING PER 6'-0" MAX

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OF WADEAVE, SUIT
PHONE AVE. **Z** &

SPEED DESIGN WIND S AND DETAILS MPH ULTIMATE I BRACING NOTES - 130 ALL I MPH. WA 120

DATE NOVEMBER 14, 2018 CALE 1/4" = 1'0"

DRAWN BY JST

D-2 BRACED WALL NOTES AND DETAILS AND PF DETAIL

GENERAL NOTES

- ENGINEER'S SEAL AFFLIES ONLY TO STRUCTURAL COMPONENTS INCLUDING ROOF RAFTERS, HIPS, VALLEYS, RIDGES, FLOORS, WALLS, BEAMS, HEADERS, COLUMNS, CANTILEYERS, OFFSET LOAD BEARING WALLS, PIERS, GIRDER SYSTEM AND FOOTING. ENGINEER'S SEAL DOES NOT CERTI DIMENSIONAL ACCURACY OF ARCHITECTURAL LAYOUT INCLUDING ROOF, ENGINEER'S SEAL DOES NOT APPLY TO 1-JOIST OR FLOOR/ROOF TRUSS
- 2. ALL CONSTRUCTION SHALL CONFORM TO THE LATEST REQUIREMENTS OF THE NORTH CAROLINA RESIDENTIAL CODE (NCRC), 2010 EDITION, PLUS ALL LOCAL CODES AND REGULATIONS. THE STRUCTURAL ENGINEER IS NOT RESPONSIBLE FOR AND WILL NOT HAVE CONTROL OF, CONSTRUCTION MEANS METHODS. TECHNIQUES, SCALEFULES OF 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)	DEPLECTION (IN)
ATTIC WITH LIMITED STORAGE	20	10	L/140 (L/360 w/ BRITTLE FINISHES)
ATTIC WITHOUT STORAGE	Ø	10	L/36Ø
DECK5	40	1Ø	L/36Ø
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	5Ø	10	L/36Ø
ROOMS OTHER THAN SLEEPING ROOM	40	w	L/36Ø
SLEEPING ROOMS	30	10	L/36Ø
STAIRS	40	10	L/36Ø
WIND LOAD	(BASED ON TABLE R3012)	(4) WIND ZONE AND EXPOSURE	
GROUND SNOW LOAD: Pa	2Ø (PSF)		

- I-JOIST SYSTEMS DESIGNED WITH 12 PSF DEAD LOAD AND DEFLECTION (IN) OF L/480 - FLOOR TRUSS SYSTEMS DESIGNED WITH 15 PSF DEAD LOAD
- 4. FOR 15 AND 120 MPH WIND ZONES, FOUNDATION ANCHORAGE IS TO COMPLY WITH SECTION R40316 OF THE NORC, 2016 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 CHAFTER 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 F BEARING CAPACITY IS NOT ACHIEVED
- 2. FOR ALL CONCRETE SLABS AND FOOTINGS, THE AREA WITHIN THE PERIPETER OF THE BUILDING BINELOPE 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 IMPORT SUPPORT OF THE SLAB, AND EXCEPT IMPERE APPROVED, THE FILL DEPTHS SHALL NOT EXCEPD 24* FOR CLEAN GRADO OR GRAVEL MATERIAL AS "THICK DASED COURSE" OF CLEAN GRADOED SAND OR GRAVEL SHALL BE PLACED. A BASE COURSE IS NOT REQUIRED UNLESS A CONCRETE SLAB IS NOTALLED ON WELL-DRAINED OR SAND-GRAVEL MIXTURE SOILS CLASSIFIED AS GROUP I. ACCORDING TO THE UNITED SOIL CLASSIFICATION SYSTEM IN ACCORDANCE WITH TABLE R4051 OF THE NORG, 2018 EDITION.
- 3. PROPERLY DEJUATER EXCAVATION PRIOR TO POURING CONCRETE JUAISH BOTTOM OF CONCRETE SLAB IS AT OR BELOW WATER TABLE. II APPLICABLE, 3/4" - 1" DEEP CONTROL JOINTS ARE TO BE SAUED WITHIN 4 TO 12 HOURS OF CONCRETE FINISHING AND WALL LOCATIONS HAVE BEEN MARKED, ADJUST WERE NECESSARY,
- 4. CONCRETE SHALL CONFORM TO SECTION R4022 OF THE NORC, 2016 EDITION. CONCRETE REINFORCING STEEL TO BE ASTM A615 GRADE 60. WELDED WIRE FABRIC TO BE ASTM A615. MAINTAIN A MINIMIM CONCRETE COVER AROUND REINFORCING STEEL OF 3° IN FOOTINGS AND 1 12° IN SLABS. FOR POUNCED CONCRETE WALLS, CONCRETE COVER FOR REINFORCING STEEL MEASURED FROM THE INSIDE FACE OF THE WALL SHALL NOT BE LESS THAN 14°. CONCRETE COVER FOR REINFORCING STEEL HEASURED FROM THE OUTSIDE FACE OF THE WALL SHALL NOT BE LESS THAN 1 1/2° FOR "5 BARS OR SMALLER AND NOT LESS THAN 2° FOR 16 BARS OR LARGER
- 5. MASONRY UNITS TO CONFORM TO ACE 530/ASCE 5/TMS 402, MORTAR SHALL CONFORM
- 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 OF SOLID FILLED PIERS, PERS MY 2F FILLED SOLID WITH CONCRETE OR TYPE M OR 5 MORTAR PIERS AND WALLS SHALL BE CAPPED WITH 8" OF SOLID MASONRY.
- T. 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 ALL CONCRETE AND MASONRY FOUNDATION WALLS ARE TO BE CONSTRUCTED IN ACCOMPANCE WITH THE PROVISIONS OF SECTION RIPA' OF THE NORC, 2019 EDITION OR N ACCORDANCE WITH ACI 318, ACI 332, NOMA TREB-A OR ACE 530/ASCE 57/115 402, MASONRY FOUNDATION WALLS ARE TO BE REINFORCED FER TABLE RAPALITIN, RAPALITI, VARAMILIS, NOR MARMILIS AND THE NORCE, 2019 EDITION. CONCRETE FOUNDATION WALLS ARE TO BE REINFORCED FER TABLE RAPALITIS OF THE NORCE, 2019 EDITION. STEP CONCRETE FOUNDATION WALLS TO 2 x 6 FRAMED WALLS AT 16" OC. WHERE GRADE FERMITS (WAD).

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FRAMING NOTES

- LALL FRAMING LUMBER SHALL BE 12 SFF MINIMUM (Fb = 815 PS), Fy = 315 PS), E = 16000000 PS)) UNLESS NOTED OTHERWISE (UNO). ALL TREATED LUMBER SHALL BE 72 SYP MINIMUM (Fb = 915 PSI, Fv =115 PSI, E = 16000000 PSI) UNLESS NOTED OTHERWISE (UNO)
- 2 1 AMNATED VENEER LUMBER (LVL) SHALL HAVE THE FOLLOWING MINIMUM PROPERTIES: PD =2600 PSI, Fv = 285 PSI, E = 1900000 PSI, LAMINATED STRAND LUMBER (LSL) SHALL HAVE THE FOLLOWING MINIMM PROPERTIES: FO = 2325 PSI, Fv = 340 PSI, E = 1550000 PSI
 PARALLEL STRAND LUMBER (PSL) UP TO 1" DEPTH SHALL HAVE THE FOLLOWING MINIMM PROPERTIES: FG = 2500 PSI, E = 1800000 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.
- 5 STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING ASTM SPECIFICATIONS

W AND UT SHAPES: 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

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

A WOOD FRAMING (2) 1/2" DIA x 4" LONG LAG SCREUS B. CONCRETE (2) 1/2" DIA. x 4" LONG SIMPSON TITEN HO ANCHORS C. MASONRY (RILLY 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 1/2" 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 BEARING HEADERS TO CONFORM TO TABLE R602.7(1) AND R602.7(2) OF THE NORC, 2018 EDITION OR BE (2) 2 x 6 WITH (1) JACK AND (1) 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 R602.15 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 MINIMAM 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 (INO). ALL BEAMS OR GIRDER TRUSSES PERTENDICULAR TO WALL AND SUPPORTED BY MORE THAN (3) STUDS OR OTHER NOTED COLUMN ARE TO BEAR RILLY ON SUPPORT COLUMN FOR ENTIRE WALL DEPTH (UNO). BEAM ENDS THAT BUTT INTO ONE ANOTHER ARE TO EACH BEAR EQUAL LENGTHS (UNO).
- FLITCH BEAMS SHALL BE BOLTED TOGETHER USING 1/2" DIAMETER BOLTS (ASTM A3/01) WITH WASHERS PLACED AT THREADED BND OF BOLT.
 BOLTS SHALL BE SPACED AT 24" CENTERS (MAXMUM), AND STAGGERED AT TOP AND BOTTOM OF BEAM (2" EDGE DISTANCE), WITH (2) BOLTS
- 9. ALL I-JOIST OR TRUSS LAYOUTS ARE TO BE IN COMPLIANCE WITH THE OVERALL DESIGN SPECIFIED ON THE PLANS. ALL DEVIATIONS ARE TO
- 1/2. 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 R60210.
- 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.
- DOWN 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 PRIEDMENT 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 NEADER WITH 12" LAG SCREUB 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) I'D NAILS EA PLY BETWEEN WALL STUDS WITH (2) ROUG OF 1/2" LAG SCREUG AT 12" OC STAGGERED AND IN ACCORDANCE WITH SECTION R 103,821 OF THE NORG, 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 MINIMUM OF 8'-0", FASTEN MEMBERS WITH THREE ROUS OF 12d NAILS AT 16" O.C. FRAME DORMER WALLS ON TOP OF DOUBLE OR TRIPLE RAFTERS AS
- IA. FOR TRUSSED ROOTS: 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 6 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 (INO.) POSTS MAY BE SECURED USING ONE SIMPSON H6 OR LTSIZ 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,

ERING ERING UTE 104 RALEICH, 1 89-9919 FAX. (919) 78 ICENSE NO. C. (733) EZ

> SPEED - 130 MPH ULTIMATE DESIGN WIND STANDARD STRUCTURAL NOTES

DATE NOVEMBER 14, 2018 SCALE 1/4" = 1'0"

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S-0 STRUCTURAL