# TOPSAIL

# TOPSAIL REVISION LIST - STRUCTURAL:

- 1.) ADDED I-JOIST SERIES AND SPACING TO SECOND FLOOR FRAMING AND CRAWL (10-17)
- 2.) REMOVED BEDROOM VAULTS 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

- 1. CHANGED ALL CORNER BOARDS ON ELEVATIONS FROM 6" TO 4"
- 2. CHANGED NOTE FOR GARAGE LABEL ON ELEVATIONS
- . REMOVED GRIDS FROM ALL WINDOWS & DOORS ON SIDES AND REAR ELEVATIONS
- 4. UPDATED ALL COACH LIGHTS ON ELEVATIONS
- 5. 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. SEPARATED ALL OPTIONS FROM BASE PLAN TO CORRESPONDING SHEETS
- 12. ADDED DIAGONAL DIMENSION ON SLAB INTERFACE PLAN
- 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 1
- 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

•

nventary

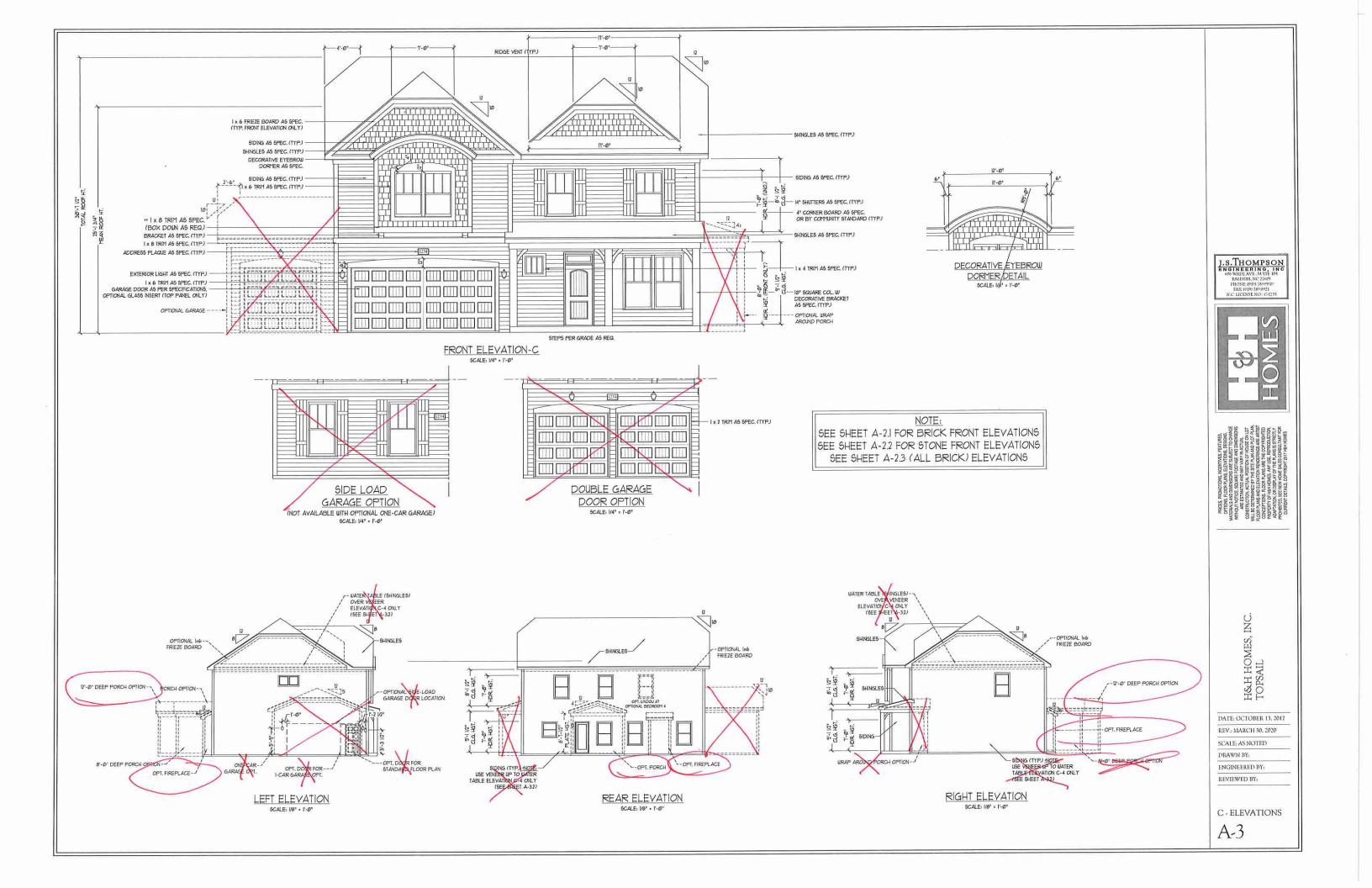
COVER SHEET

&H HOMES TOPSAIL

IMFCCCC 3

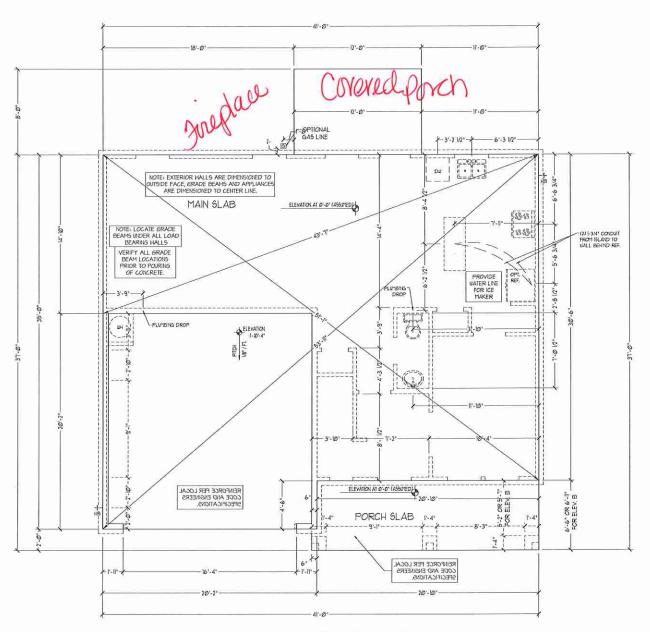
DATE: OCTOBER 13, 2011
REV:: MARCH 30, 2020
DRAWN BY: WG
ENGINEERED BY:











FOUNDATION PLAN

J.S.THOMPSON ENGINEERING, INC 606 WADE AVE. SUTILE 104 RALEIGH, NO. 21605 PHONE (0110) 780-0911 FAX. (010) 780-0921 NC. LICENSE NO. C-1733



OPTIONS LOOP IN ANS ENTITIONS SERVINGS.

THERMS AND DIMENSIONS AFE SUBJECT TO CHANGE
THIRD LITTLES AND LIMENSIONS AFE SUBJECT TO CHANGE
THIRD LITTLES SUBJECT TO CHANGE SUBJECT TO CHANGE
THIRD LITTLES SUBJECT TO CHANGE SUBJECT TO CHANGE
THE DEFENDENCE AND LIAN VARIAN MATINA.

LIE DEFENDENCE AND LIAN VARIAN MATINA.

LIE DEFENDENCE AND LIAN VARIAN MATINA.

LIE DEFENDENCE AND LIAN VARIAN MATINA.

THE DEFENDENCE AND LIAN VARIANCE AND LIAN

H&H HOMES, INC. TOPSAIL

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

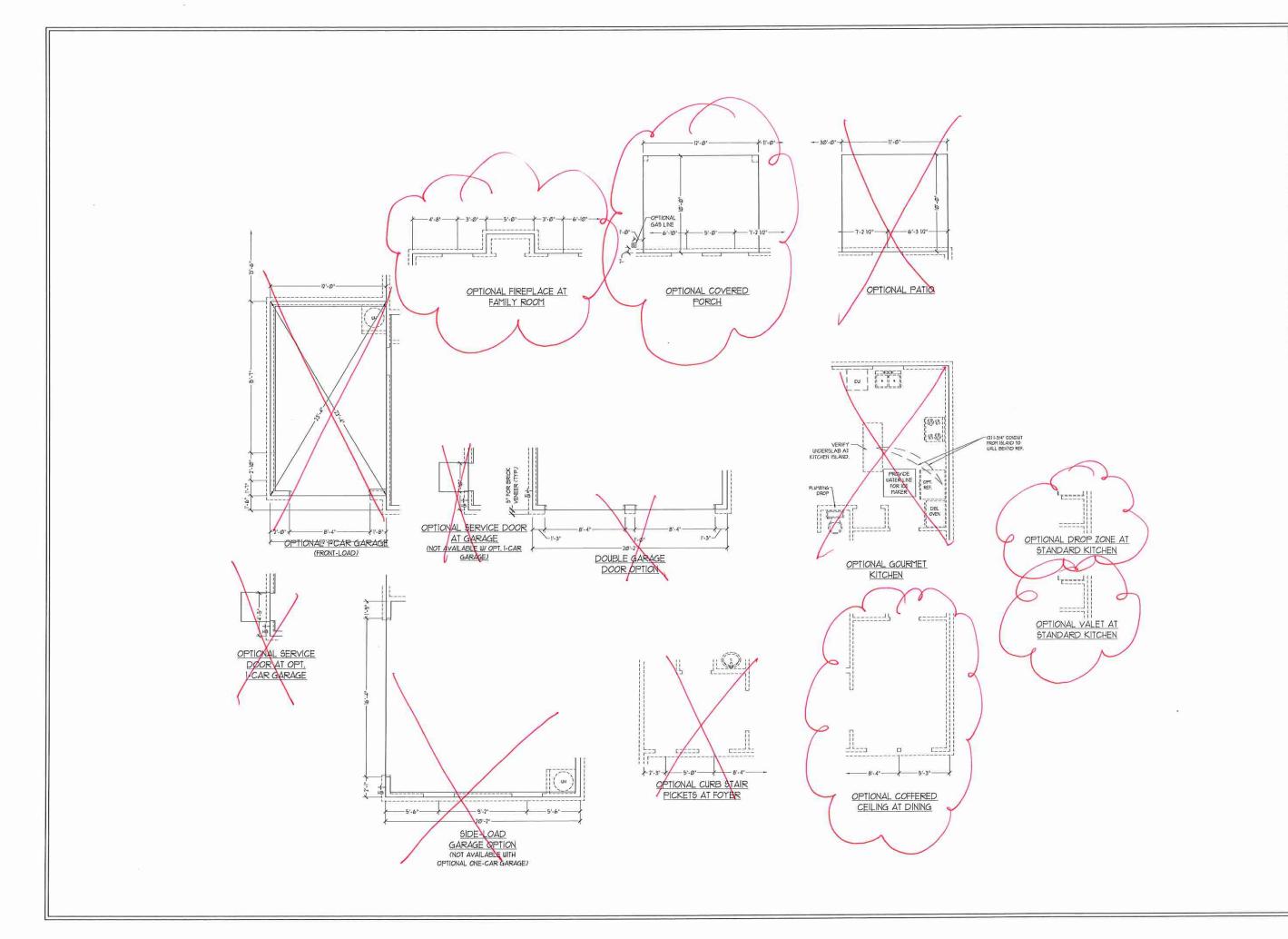
SCALE: 1/4"=1'-0"

DRAWN BY: ENGINEERED BY:

REVIEWED BY:

SLAB INTERFACE PLAN

A-4



J.S.THOMPSON ENGINEERING, INC (60: WADE AVE. SUITE 109 BALLEDH, NC 27646 FHCNE: (919) 786-9921 FAX (1019) 786-9921 NC LICENSE NO.: C4733



PRICES PROMOTONS RESUREDES EXPLIBIES OFTEN AND EXPLIBIES OFTEN AND EXPLIPING DESIGNA MATERIALS AND DIRECTIONS DESIGNA MATERIALS AND DIRECTIONS OF SERVING THE OWN WAYN AND THE CONTROL ON CORSTRUCTION, CONCENTRATION, CONCENTRATION, CONCENTRATION, CONCENTRATION, CONTROL AND EXPLIPING AND EXPLIPING AND EXPLIPING AND EXPLIENT AND EXPLAINT AND EXPLIENT AND EXPLAINT AND EXP

H&H HOMES, INC. TOPSAIL

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

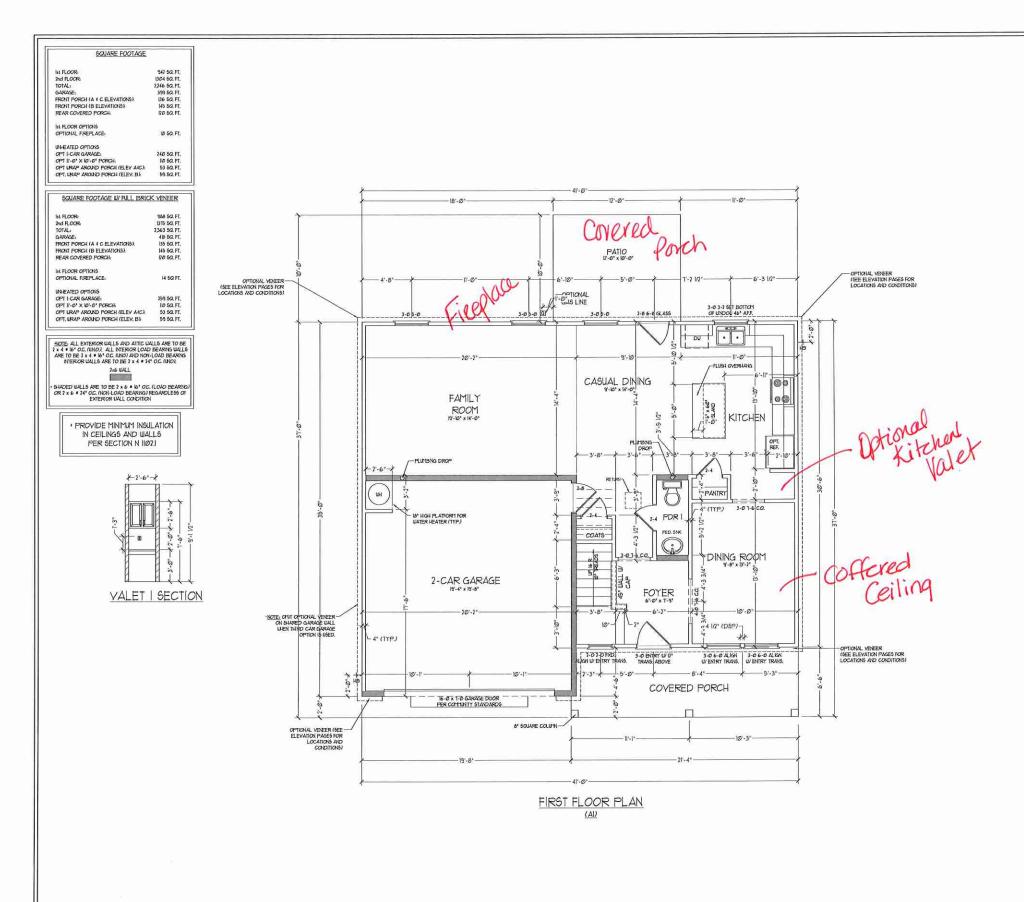
SCALE: 1/4"=1'0" DRAWN BY:

ENGINEERED BY:

REVIEWED BY:

SLAB INTERFACE PLAN - OPTIONS

A-4.1



J.S. THOMPSON
ENGINEERING, INC
608 WADE AVE. SUITE 104
(AND EAST OF THE STREET
FIRST OF THE STREET
FAX: 0107 786-9021
N.C. LICENSE NO. CLITSS



THE STATE OF THE S

H&H HOMES, INC. TOPSAIL

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

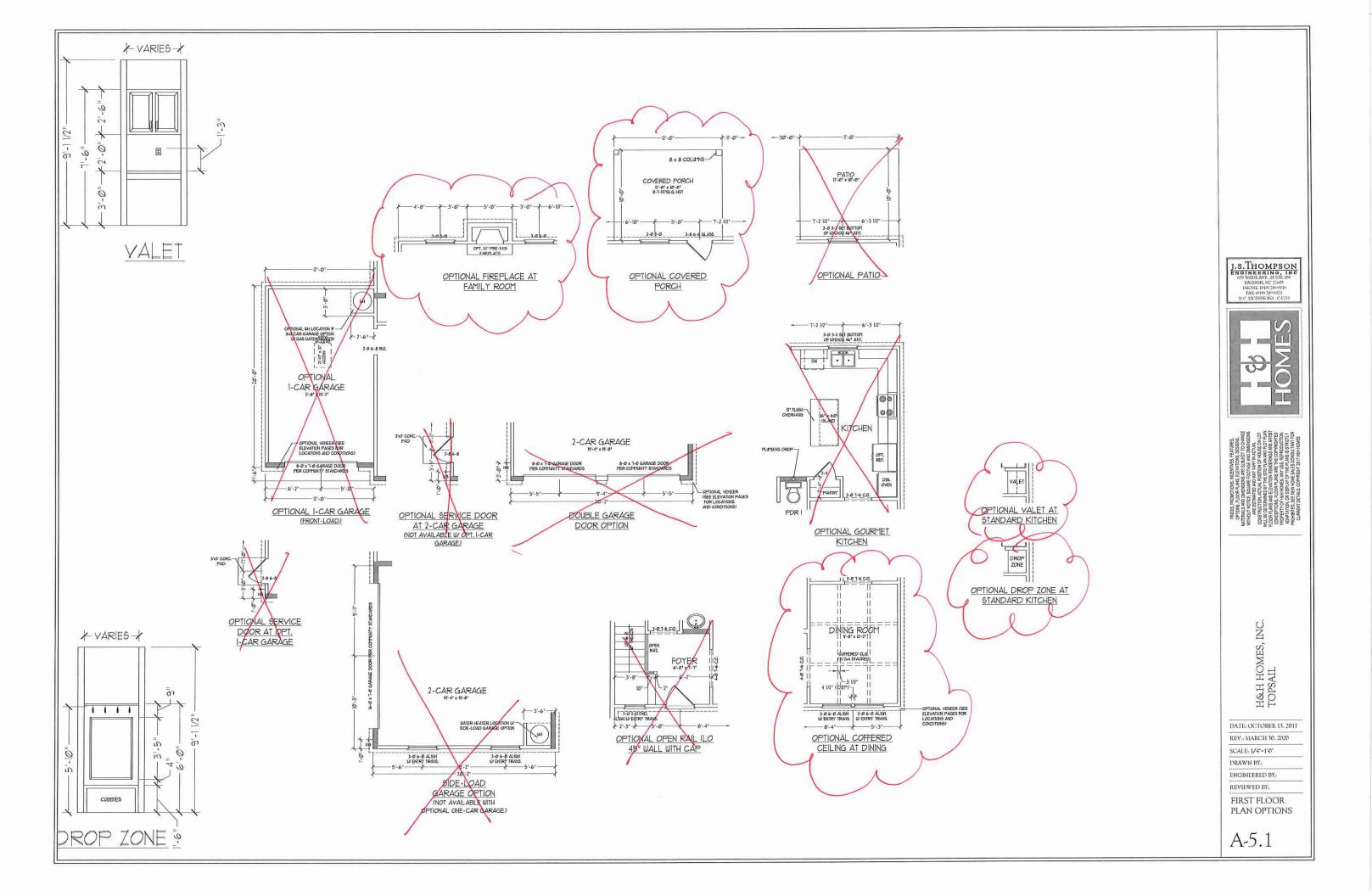
SCALE: 1/4"=1'0" DRAWN BY:

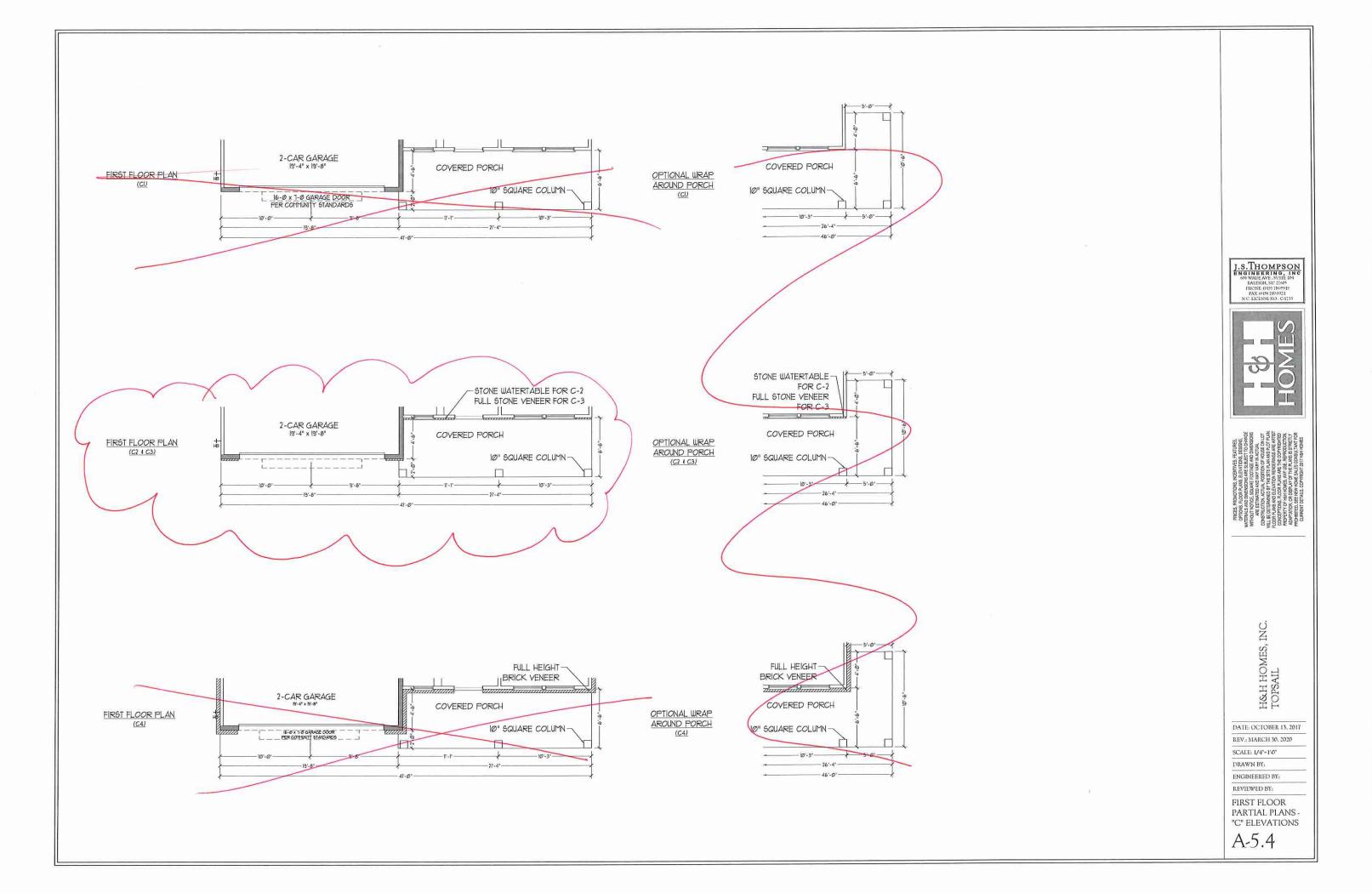
ENGINEERED BY:

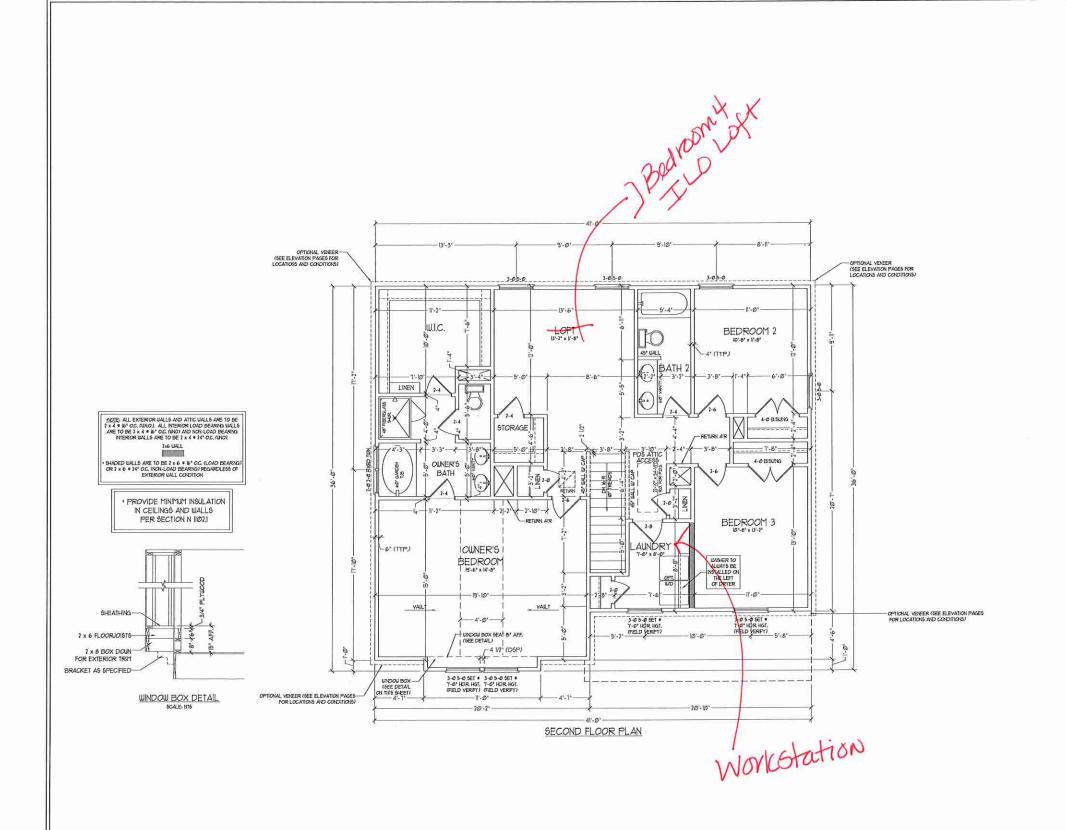
REVIEWED BY:

FIRST FLOOR PLAN

A-5







J.S. THOMPSON
ENGINEERING, INC.
(60 WADEAVE, SUITE 104
RALEIGH, NC 27605
PHONE (919) 788-9919
FAX (919) 789-9921
NC LICENSENO: C.1733



ADDITIONS LONG HEADTH DESIGNS HE SIGNED HEADTH DESIGNS HEADTH DESIGNS HEADTH DESIGNS HEADTH DESIGNED HEADTH DESIGNS HEADTH DESIGNED HE SIGNED HEADTH DESIGNED HE SIGNED HEADTH DESIGNED HE SIGNED HEADTH DESIGNED HE SIGNED HEADTH DESIGNED HE SIGNED HEADTH DESIGNED HEADTH DE

H&H HOMES, INC. TOPSAIL

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

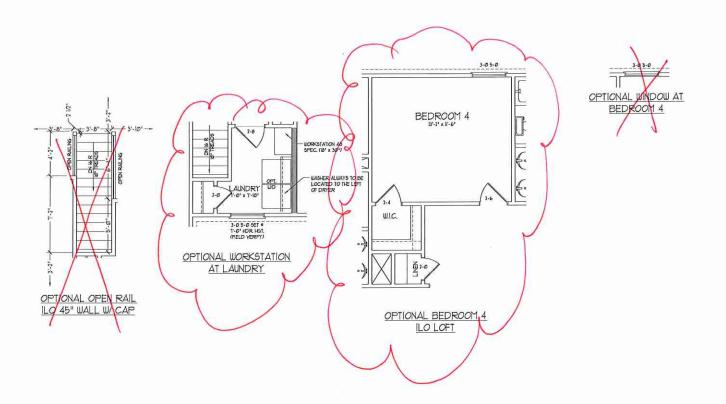
SCALE: 1/4"=1"0"

DRAWN BY: ENGINEERED BY:

REVIEWED BY:

SECOND FLOOR PLAN

A-6



J.S.THOMPSON ENGINEERING, IN 606 WADE AVE. SUITE 164 RALEIGH, NC 21665 PHONE (919) 78949919 FAX (919) 78949921 N.C. LICENSE NO.-C1733



H&H HOMES, INC. TOPSAIL

DATE: OCTOBER 13, 2017

REV.: MARCH 30, 2020

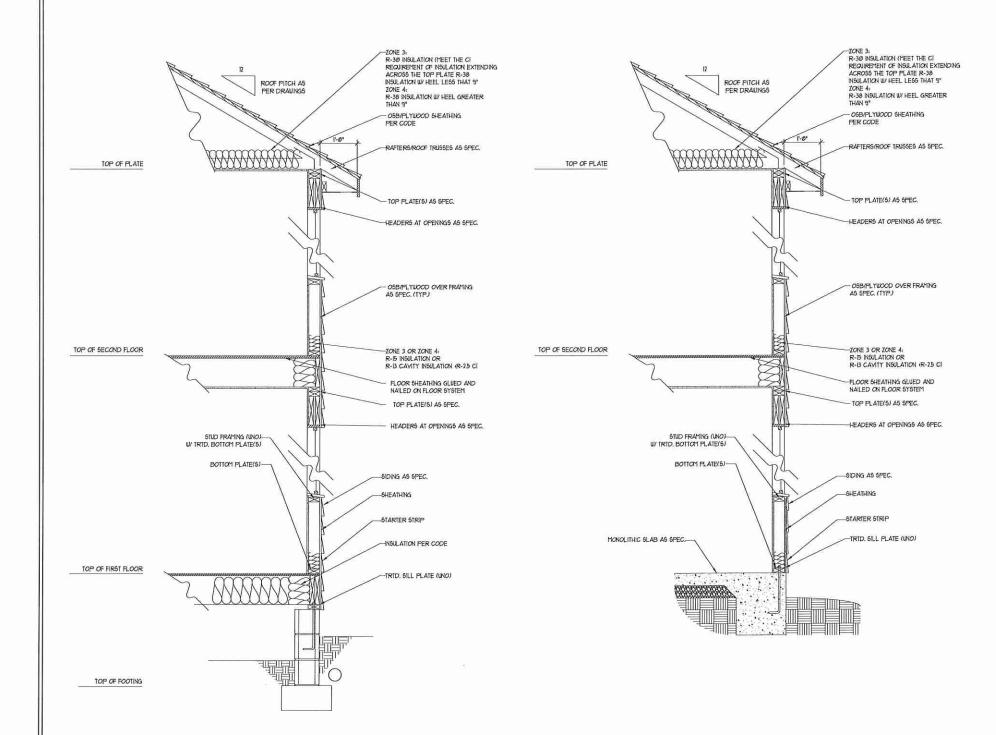
SCALE: 1/4"=1'0"

DRAWN BY:

ENGINEERED BY: REVIEWED BY:

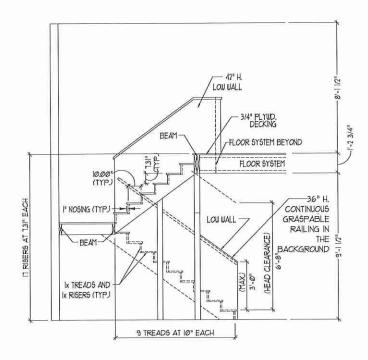
SECOND FLOOR PLAN OPTIONS

A-6.1



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

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



TYPICAL STAIR DETAIL (NTS)

STAIR NOTES:

RAILING

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

THE TRIANGULAR OFENNAS FORMED BY THE RISER, TREAD AND BOTTOM RAIL, OF A GUIARD AT THE OFEN SIDE OF A STAIRBLY ARE PERMITTED 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 3/6 INCHES TO PASS THROUGH

HANDRAILS:

HADRAILS FOR STAIRLIANS SHALL BE CONTINUOUS FOR THE PULL LENGTH OF THE FLIGHT, FROM A POINT DIRECTLY ABOVE THE TOP RISER OF THE FLIGHT TO A POINT DIRECTLY ABOVE THE LOUEST RISER HADRAIL EDGS SHALL BE RETURNED OR SHALL TERMINATE IN NEUEL POSTS OR SAFETY TERMINALS. HADRAILS ADJACENT TO A BULL SHALL HAVE A SPACE OF NOT LESS THAN I-VI NICH DETUEDS THE WALL AND HANDRAILS.

CONTINUOUS GRASPABLE HANDRALL HUST MEET TIPE ONE OR TIPE TUO CRITERIA

J.S.THOMPSON ENGINEERING, INC 506 WADE AVE. SUITE 104 RALEIGH, NC 27605 PHONE (910) 789-9921 FAX (910) 789-9921



PRICES FROMOTIONS, WCBITTLES, FAUTHES, OPTIONS, FOOD PAIN, RELEVINGS, EESINS, FETTLERS, MO DIMENSIONS ARE SILECT TO GHAVE EMPORTANCE AND MENSIONS ARE SILECT TO GHAVE EMPORTANCE. SOUNDER CONCERN AND MENSIONS ARE ESTIMATED AND MAY WART WA GATLIAL ARE ESTIMATED AND MAY WART WA GATLIAL ARE ESTIMATED AND MAY WART WA GATLIAL AND PLANS AND REAVEN MESTINE THE ONT PROBLEMS AS ATTRICT, AND PLANS AND RELAVAN CHARL HANGE, AND MENSIONED AND MENS

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 AND STAIR DETAIL

AD-1

ELECTRICAL LAYOUT NOTES:

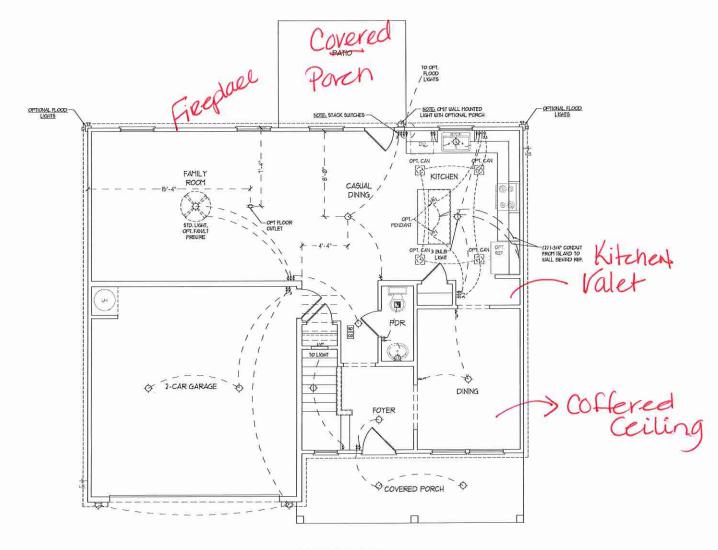
U BLOCK AND WARE FOR AL
CELTIS FASS FER FLAX

1) VANIT LIGHTS TO BE SET
SOF AFF, (TIP)

3) ADDITIONAL EXIERCIS CITIESTS
REGURED BY CODE TO BE
LOCATED BY ELECTRICAN

4) FLACE SHITCHES OF INTUINENT
ROUGH OPENISS.

No v outlet	*
WALL HOUNT LIGHT	Ω
CEILING MOUNT LIGHT	0
PENDANT LIGHT	•
RECESSED CAN LIGHT	Ø
MINI CAN LIGHT	<b>(2)</b>
EYEBALL LIGHT	<b>(a)</b>
FLUORESCENT LIGHT	) <u> </u>
2 LAMP, 4' FLUORESCENT LIGHT	}
FLOOD LIGHT	큠
SWITCH	4
3-WAY SUTTCH	1
4-WAY SUITCH	4
DITTER BUTCH	8
CONDUIT FOR COMPONENT URING	-{cu
SPEAKER	(ser
DOORBELL CHINE	-{p}
NO V SMOKE DETECTOR	[50]
CO DETECTOR	@
EXHAUST FAN	823
LOU VOLTAGE PAYEL	LMP
CELING FAN	X
CELING FAN UV LIGHT	



FIRST FLOOR PLAN

J.S.THOMPSON ENGINEERING, INC 600 WADE AVE. SUITE IN ENGIGIEL NO. 1750 PHONE (PH) 1800/PH FAX. (PH) 1800/PH FAX. (PH) 1800/PH INC. LEENES NO. CHT/13



H&H HOMES, INC. TOPSAIL

DATE: OCTOBER 13, 2017

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

DRAWN BY:

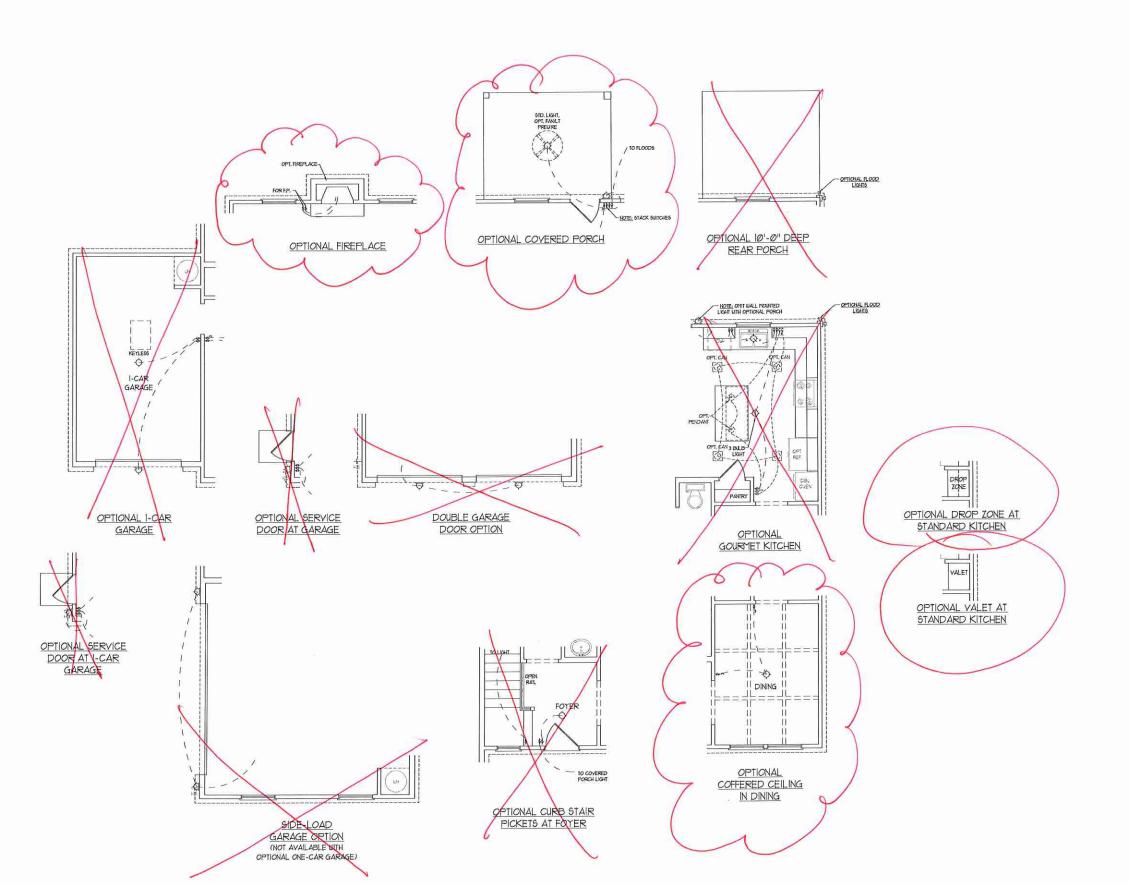
ENGINEERED BY:

FIRST FLOOR ELECTRICAL PLAN

E-1



ELECTRICAL I	EGEND
NO V CUILET	:0:
WALL MOUNT LIGHT	Φ
CEILING MOUNT LIGHT	0
PENDANT LIGHT	•
RECESSED CAN LIGHT	Ø
HNI CAN LIGHT	[2]
EYEBALL LIGHT	(1)
FLUORESCENT LIGHT	
7 LAMP, 4" FLUORESCENT LIGHT	}
FLOOD LIGHT	육
<b>БШТСН</b>	1
3-MAY BUTCH	ł
4-MAY SUITCH	
DITTER SUITCH	8
CONDUIT FOR COMPONENT	-{CE
SFEAKER	[se
DOORBELL CHIE	-0
NO V SHOKE DETECTOR	50
CO DETECTOR	@
EXHAUST FAN	120
LOU VOLTAGE PAYEL	LVP
CELING FAN	X
CELLING FAN U' LIGHT	



J.S.THOMPSON
ENGINEERING, INC
600 WADE AVE. SUITE 104
EALEIGH, NC 27605
PHONE (919) 786-9919
FAX: 919 786-9921
N.C. LICENSE NO. C-1735



MUTERIA SI NO PROPERSI ESTE RIS RESINDENSES MUTERIA SIND DEBENES OF STATES AND DEBENES MUTERIA SIND DEBENES OF STATES AND STATES AND MULTIPOSITION ACTION, POSTERO PROPERSION MULTIPOSITION ACTION, POSTERO PROPERSION MULTIPOSITION ACTION AND STATES AND STATES AND STATES CONCERTIONS, STORE PROPERSION ARE THE CONFIDENTIAL MODERNITOR STATES AND STATES AND

> H&H HOMES, INC. TOPSAIL

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

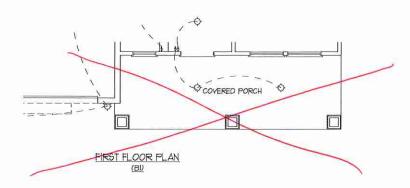
SCALE: 1/4"=1'-0" DRAWN BY:

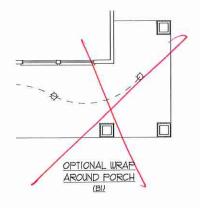
ENGINEERED BY:

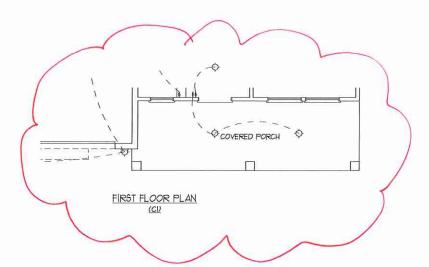
REVIEWED BY:

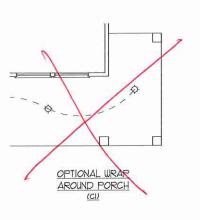
FIRST FLOOR ELECTRICAL PLAN - OPTIONS

E-1









J.S.THOMPSON
ENGINEERING, INC
606 WADEAVE, SUITE 104
606 WADEAVE, SUITE 104
607 FROM THE 107
608 PROPERTY OF THE 108
608 PROPE



PRINCES BROADINGS MICHINES ESTUTIES.

OPTIONS FLOOR FLOWER LENVINOS ERSINGS MICHINES ESTUTIONS FLOOR PLANE (LENVINOS ERSINGS ESTUTION FLOOR E

H&H HOMES, INC. TOPSAIL

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

REV.: MARCH 30. : SCALE: 1/4\*=1\*0\*

DRAWN BY:

ENGINEERED BY: REVIEWED BY:

FIRST FLOOR ELECTRICAL PARTIAL PLANS

E-1.2

ELECTRICAL LAYOUT NOTES:

U BLOCK ARD LIRE FOR ALL
CELING PLANS FER PLAN

2) VANITI LIGHTS TO BE SET

\*SO AFF, (TIP)

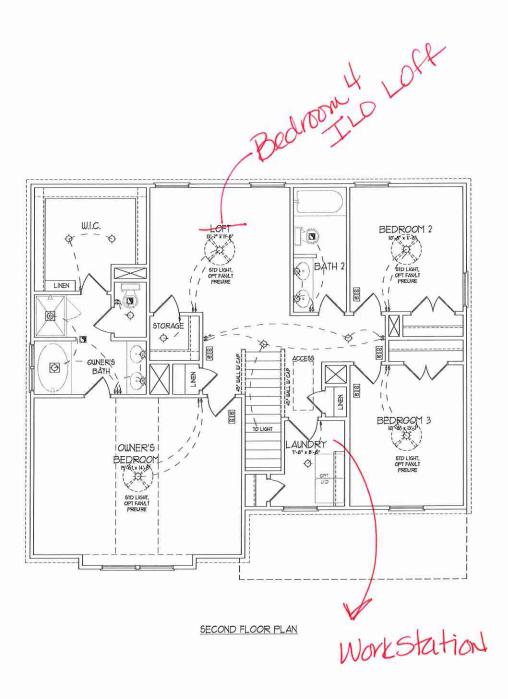
3) ADDITIONAL EXTERIOR GUILETS
PROJEED BY CODE TO BE

LOCATED BY ELECTRICIAN

4) PLACE SHITCHES 6" MINJ PROMI

ROUGH OPENINS.

ELECTRICAL I	LEGEND
No v outlet	•
BALL MOUNT LIGHT	Φ
CEILING MOUNT LIGHT	<b></b>
FENDANT LIGHT	•
RECESSED CAN LIGHT	Ø
MNI CAN LIGHT	Ø
EYEBALL LIGHT	(0)
FLUORESCENT LIGHT	<b>&gt;</b> ──≺
7 LAMP, 4' FLUORESCENT LIGHT	}
FLOOD LIGHT	号
SUITCH	4
3-WAY SUTCH	4
4-WAY SUITCH	ŧ
DITTER SUITCH	g
CONDUIT FOR COMPONENT URING	-[0]
SPEAKER	te.
DOORBELL CHINE	-[0]
NO V SMOKE DETECTOR	50
CO DETECTOR	[co
EXHAUST FAN	NO.
LOU VOLTAGE PAVEL	
CELING FAN	X
CELLING FAN UI LYSHT	



J.S.THOMPSON ENGINEERING, INC 606 WADE AVE. SUTE IND RABEIGH, NC 27660 PHONE (919) 786-9919 FAX, (919) 786-921 N.C. LICENSE NO. C-1733



ATTENDATE AND THE STATE OF THE

H&H HOMES, INC. TOPSAIL

DATE: OCTOBER 13, 2017

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

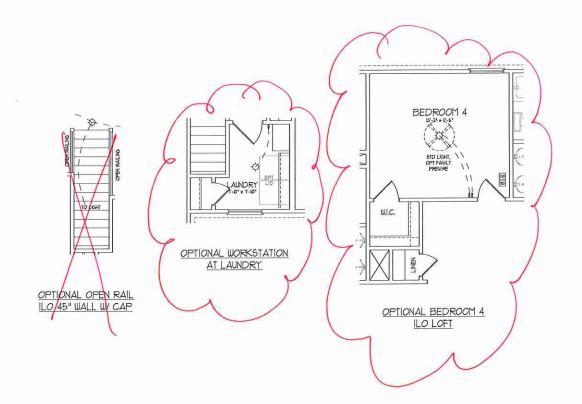
DRAWN BY:

ENGINEERED BY: REVIEWED BY:

SECOND FLOOR ELECTRICAL PLAN

E-2

ELECTRICAL L	name of
10 V OUTLET	•
WALL MOUNT LIGHT	Ω
CEILING HOUNT LIGHT	0
PENDANT LIGHT	<b>(</b>
RECESSED CAN LIGHT	Ø
HNI CAN LIGHT	Ø
EYEBALL LIGHT	(1)
FLUORESCENT LIGHT	
2 LAMP, 4" FLUORESCENT LIGHT	}
FLOOD LIGHT	윰
SUITCH	f
3-WAY SWITCH	ş
4-WAY SUITCH	į.
DITTER SUITCH	¢
COLOUIT FOR COMPONENT URING	-{cal
SPEAKER	*
DOORESELL CHINE	-[0]
NO V SHOKE DETECTOR	50
CO DETECTOR	@
EXHAUST FAN	NE)
LOU VOLTAGE PANEL	
CELLING FAN	X
CELLING FAN UV LIGHT	





J.S.THOMPSOI ENGINEERING, IN 606 WADE AVE. SUITE 104 RALEIOH, NC 27605 PHONE (010) 788-0919 FAX: (010) 789-0921 N.C. LICENSE NO., C-1735



OPTIVAS, FLOOR PLANS, ELENYIDES, CONTINES, COPTIVAS, FLOOR PLANS, ELENYIDES, CESTIONS, COPTIVAS, FLOOR PLANS, ELENYIDES, CESTIONS, COPTIVAS, AND DIREGEORY CESTIONS COPTIVATE, AND DIREGEORY CESTIONS COPTIVATE, AND DIREGEORY COPTIVATE, COPTIVAT

H&H HOMES, INC. TOPSAIL

DATE: OCTOBER 13, 2017

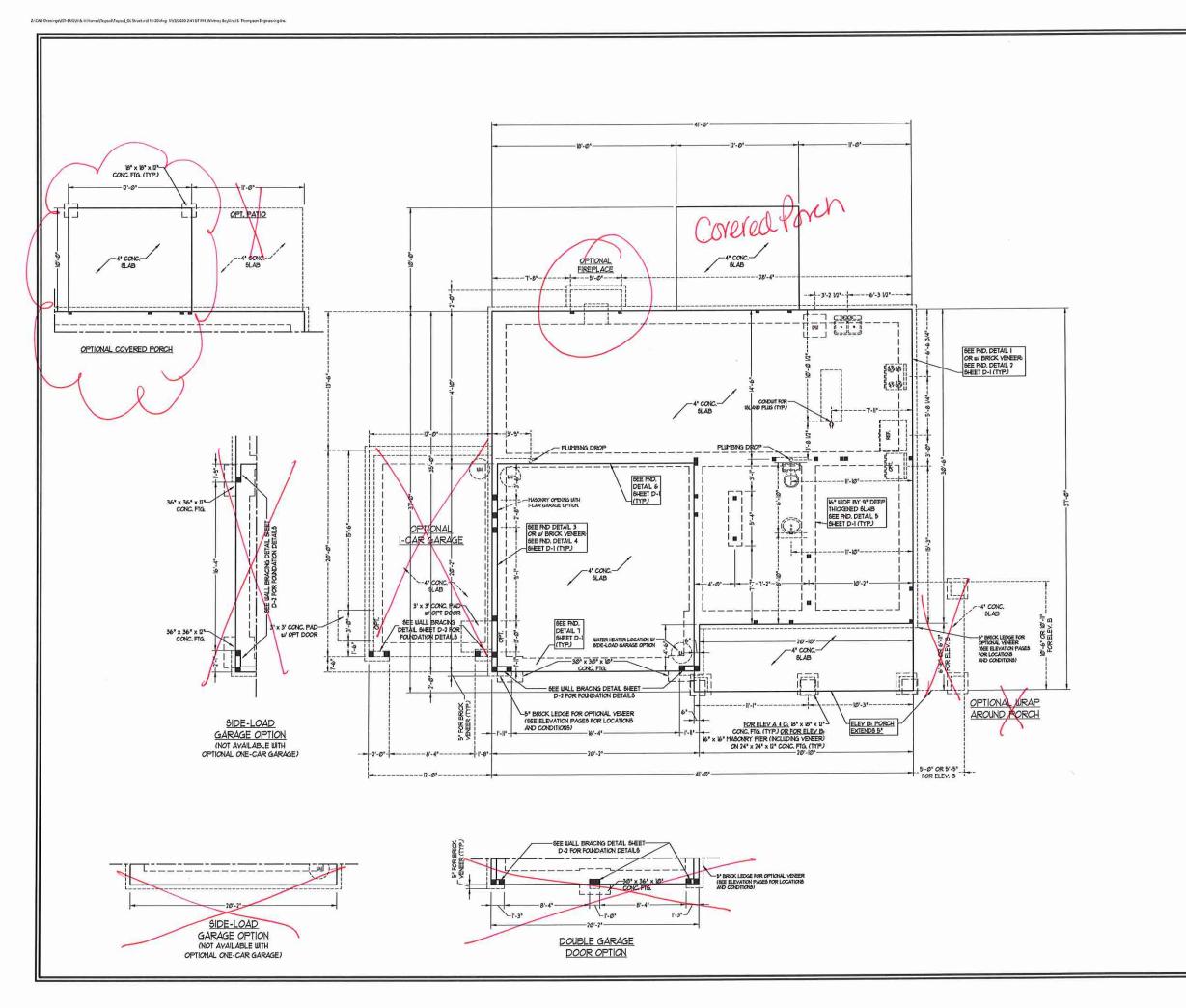
REV.: MARCH 30, 2020 SCALE: 1/4"+1'0"

DRAWN BY:

ENGINEERED BY: REVIEWED BY:

SECOND FLOOR ELECTRICAL PLAN OPTIONS

E-2.1





BINEERS BEAL AFFLES ON TO STRUCTURE COPPOSITION DESCRIPTO PERSONAL ACCIDANCE OF SOUTH DESCRIPTO PERSONAL ACCIDANCE OR ACCIDITED TRANSPORT OF STOTEL STRUCTURE LIBERT STRUCTURE LIBERT STRUCTURE LIBERT STRUCTURE LIBERT STRUCTURE LIBERT STORT OF SOUTH STRUCTURE STORT ENGINEER'S SEAL APPLIES CALY TO

### 120 MPH ULTMATE DESIGN WIND SPEED NOTES FOR LESS THAN 30" MEAN ROOF HEIGHT:

- L BIANERRY SEAL APPLES ONLY TO STRUCTURE COPPORTED BANKERY SEAL APPLES ONLY TO STRUCTURE COPPORTION BANKERY SEAL DOES NOT CERTIFY DEPOSICUL.

  ACCINACT OR ACCHIECTERAL LAYOUT NELLOWS ROCK 9 YOUR SEAL THE COPPORT OF TH

DATE: NOVEMBER 2, 2020

DRAWN BY: H&H HOMES

SHEET 2 OF 8 S-1b MONO SLAB FOUNDATION PLAN

SEAL 33736

ERING,
UITE 104 RALEIGH,
189,9919 FAX. (919) 78 ENGINER SOS WADE AVE. SUIT PHONE SUIT

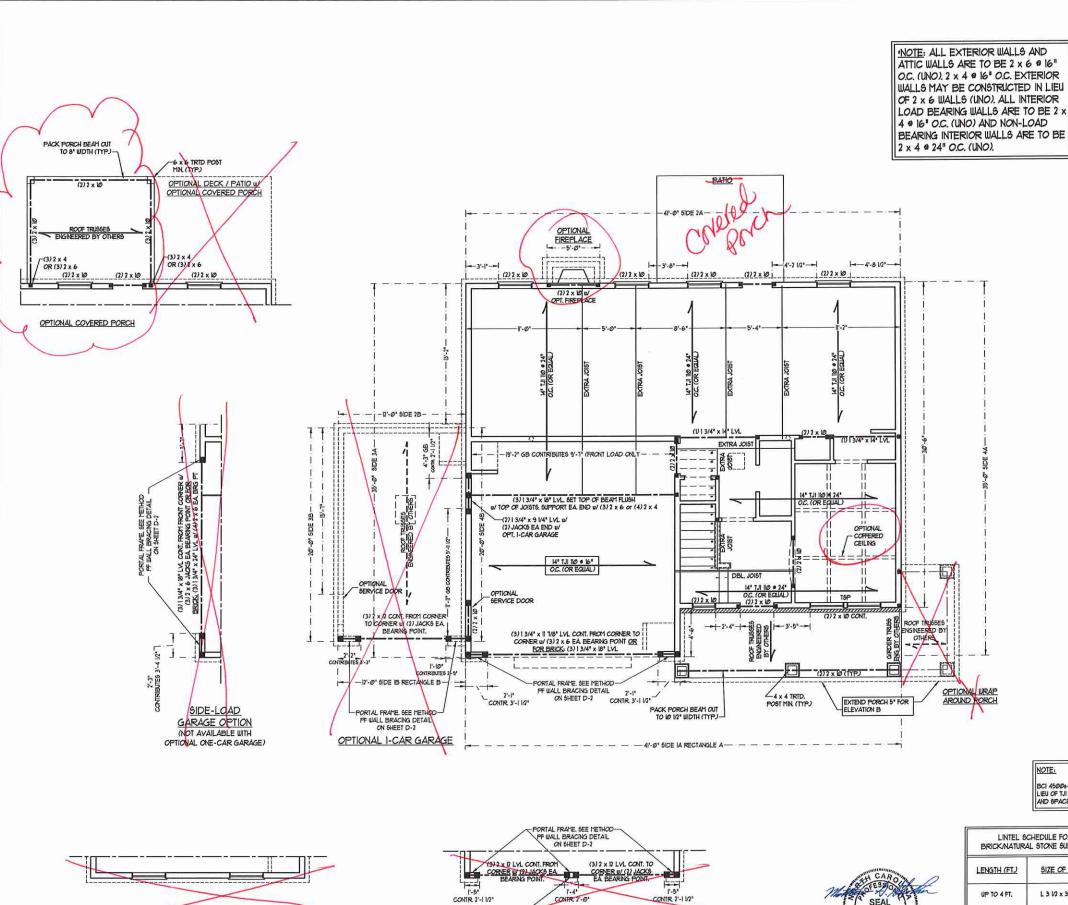
3

YAKYAYAYAYAYAYAY

TOPSAIL H&H HOMES

SCALE: 1/4" • 1'0"

ENGINEERED BY: WFB



FILL BETWEEN HEADERS SOLID W/ KING-

DOUBLE GARAGE

DOOR ORTION

STILDS. STRAP HDRS. TOGETHER IJ (2) 5'
LONG SIMPSON CSIG COIL STRAPS INSTALLED
TOP AND BOTTOM ON INSIDE FACE OF HDRS.

SIDE-LOAD

GARAGE OPTION (NOT AVAILABLE WITH

OPTIONAL ONE-CAR GARAGE)

BRACED WALL DESIGN NOTES:

BRACED WALL DESIGN PER SECTION R60730 OF THE NORC

BRACED WALL DESIGN PER SECTION REGISTOR THE NORCE
TOBS EDITION.
CS-USP REPERS TO "CONTINUOUS SHEATHINS - WOOD
STRUCTURAL PAVELS" CONTRACTOR IS TO NOTALL TIME "OSS
ON ALL EXTERIOR WALLS ATTACHED W 36 NAILS SPACED 6"
OC. AL ONS PAREL EDGES AND 10" OC. NI THE FIELD.
GES REPERS TO "GYPSM" BOARD" CONTRACTOR IS TO INSTALL
IT" INTEN GYPSM WALLS DOARD WHERE NOTED ON THE PLANS,
FASTEN GIS WITH I AU" SCREWS OR 15 96" NAILS SPACED 1" OC.

FASTEN GB WITH I VA" SCREWS OR I 5/6" NAILS SPACED I "OL.
A LONG PAREL EOGÉS AND IN THE FIELD NCLUDING TOP AND
BOTTOM PLAITES.
BRACED WALL DESKIN APPLIED IN WIND ZONES UP TO 18/6 MPHL
FOR HIGH WIND ZONES, BRACE WALLS ARE TO BE CONSTRUCTED
IN ACCORDANCE WITH CHAPTER 45 OF THE INCRE 2/80 EDITION.
SEE NOTES AND DETAIL SHEETS FOR ADDITIONAL BRACED
WALL INCEPTION TO

### BRACED WALL DESIGN

RECTANGLE A SIDE IA (FRONT LOAD) SIDE IB
METHOD: C5-WSP/FF
TOTAL REQUIRED LENGTH: 456'
TOTAL PROVIDED LENGTH: 6' TOTAL REQUIRED LENGTH: 15,1'
TOTAL PROVIDED LENGTH: 21,6' METHOD: CS-WSP METHOD: C5-USP

IOIAL PROVIDED LENAIH 1866 TOTAL PROVIDED LENAIH IZ SIDE 34 (SIDE JAA (SIDE

RECTANGLE B

TOTAL REQUIRED LENGTH: 5.1"
TOTAL PROVIDED LENGTH: 10/66'
TOTAL PROVIDED LENGTH: 10/66'
TOTAL PROVIDED LENGTH: 12'
SIDE 3A (SIDE LOAD)
SIDE 3B

SIDE 4A METHOD: C5-USP TOTAL REQUIRED LENGTH: (155' TOTAL PROVIDED LENGTH: 35' SIDE 48/3A CAPILLATIVE
METHOD: C5-WSP/GB
TOTAL REQUIRED LENGTH: 20.14'
TOTAL PROVIDED LENGTH: 34.5'

TABLE R602.75
MINIMUM NUMBER OF FULL HEIGHT 6TUDS
AT EACH END OF HEADERS IN EXTERIOR WALLS

HEADER SPAN	HAXIMIM STUD SPACING (INCH (FER TABLE R6013/5)		
(FEET)	16	24	
UP TO 3'	i i	ì	
4"	2	1	
8'	3	2	
12'	5	3	
16"	6	4	

### STRUCTURAL NOTES:

- ALL FRAMING LUMBER TO BE 6FF 12 (UNO), ALL TREATED LUMBER TO BE 6YP 12 (UNO) ALL LOAD BEARNIG HEADERS TO BE (2) 2 x 6
- NSTALL AN EXTRA JOIST UNDER WALLS PARALLEL
- TO FLOOR JOISTS WHERE NOTED ON THE FLAMS.
  WINDOW AND DOOR HEADERS TO BE SUPPORTED
  W/ (I) JACK STUD AND (I) KING STUD EA END (IND.
  SEE TABLE REGISTS FOR ADDITIONAL KING STUD REQUIREMENTS. SQUARES DENOTE POINT LOADS WHICH REQUIRE

SCALARES DENOTE PONT LOADS WHICH REQUIRE SOLID BLOCKING TO GIRDER OR FONDATION. ALL SCALARES TO BE (?) 5TUDS (IND). FOR HIGH UND) ZOKES, ALL EXTERIOR WALLS TO BE SHEATHED WITH THE 'OSS SHEATHING WITH JOINTS BLOCKED AND SECURED WITH BOT NAILS AT 3' OC. ALOKE DEGRES AND 6' OC. IN THE FIELD. FOR HIGH WIND ZOKES, SECURE ALL EXTERIOR WALLS SHEATHING PARELS TO DOUBLE TOP PLATES, BANDS, JOISTS, AND GIRDERS WITH QUENTLY CANDIS.

ROUS OF 8d NAILS STAGGERED AT 3" O.C. PANELS

ROUS OF BOT MAILS STAGGERED AT 3" O.C. PANELS
SHALL EXTEND IT BEYOND CONSTRUCTION JOINTS
AND SHALL OVERLAP GIROTHES AND DOUBLE SILL
PLATES THEIR FILL DEFITH.
ALL 4 x POOTS SHALL BE ANCHORED TO SLABS
W/SHIPSON ABJA4 POOT BASES (OR EQUAL) AND
6 x 6 POOTS WAS ALIGH POOT BASES (OR EQUAL)
(IND). ALL 4 x 4 AND 6 x 6 POOTS TO BE
INSTALLED WITH TOO LB CAPACITY UPLIFT
CONNECTORS AT TOP (IND)
IN OR FIDERSILASS, ALUMINAT, OR COLUMN ENG. BY
OTHERS, SECURE TO SLAB W/(2) PETAL ANGLES
ISSNS 3" CONC. SCREWS FASTEM ANGLES TO

USING 2° CONC. SCREUB, FASTEN AYSLES TO COLUMNS W VA\*\* THROUGH BOLTS W NATIS AND WASHERS. LOCATE ANGLES ON OPPOSITE SIDES OF COLUMN. THROUGH BOLTS MUST BE INSTALLED PRIOR TO SETTING COLUMN

REFER TO NOTES AND DETAIL SHEETS FOR ADDITIONAL STRUCTURAL INFORMATION

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 1/2 x 3 1/2 x 1/4
4-B	L 5 x 3 1/2 x 5/16 LLV
8 AND GREATER	L 6 x 4 x 5/16 LLV

NOTE:

BCI 45006-18 I-JOISTS MAY BE USED IN LIEU OF TJI 110 I-JOISTS AT THE DEPTH

AND SPACING NOTED ON THE PLAN.

K SUPPORT NOTES:

NAME OF THE PROPERTY OF THE PR

EYBED ALL HEADERS 9:-0" AND GREATER IN LEMIN, ATTACH STEEL ANGLE FOR ALL HEADERS 9:-0" AND GREATER IN LEMIN, ATTACH STEEL ANGLE TO HEADER IN 10" LAG SCREUB 9 10" OC. STAGGERED.
FOR ALL BRICK SUPPORT 9 ROOF LINES, FASTEN (2) 2 x 10" BLOCKING BETHERN STUDS 10" (4)" DID MAILS PER PLY. FASTEN 4 6" x 4" x 5 A6" STEEL ANGLE 10 (3) 2 x 10" BLOCKING 10" (7) 10" LAG SCREUB 6 10" OC. STAGGERED. SEE SECTION RIPOSED OF THE 20"8 NORG FOR ADDITIONAL BRICK SUPPORT INFORTATION.

I. PRECAST REINFORCED CONCRETE LINTELS ENGINEERED BY OTHERS MAY BE USED IN LIEU OF STEEL LINTELS.

TOPSAIL H&H HOMES

YANYANYANYANYANY

O = 500 E

ERING, UITE 104 RALEIGH, 189,9919 FAX. GUINTO

CO

S

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

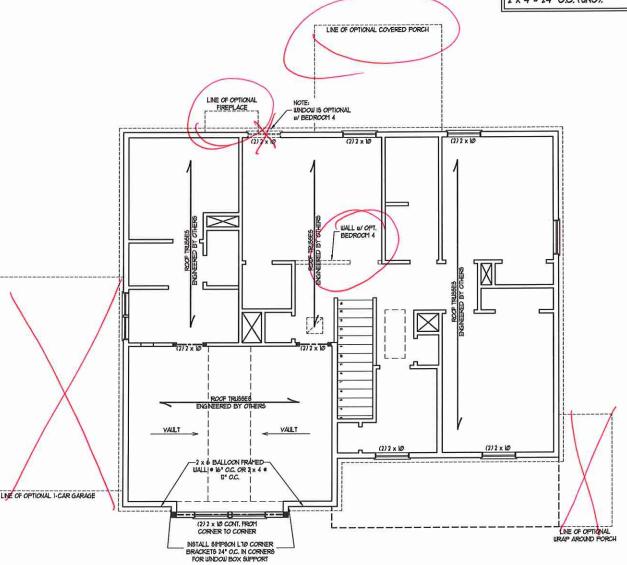
DRAWN BY: H&H HOMES

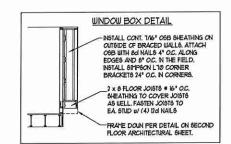
NGINEERED BY: WER

SHEET, 4 CF. 8 S-2

SECOND FLOOR FRAMING PLAN

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 9 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 R602/0 OF THE NORC
- BRACED WALL DESIGN PER SECTION REPORTS OF THE NORCE TRIS EDITION.
  CS-USP REFERS TO "CONTINUOUS SHEATHING WOOD STRUCTURAL PAVELS" CONTRACTOR IS TO NOTALL TWO "058 ON ALL EXTERIOR WALLS ATTACHED W 8d NAILS SPACED 6" OC. ALONG PAVEL BOGES AND IN" OC. IN THE FIELD.
  USE NETERS TO "GYPSHIM BOARD" CONTRACTOR IS TO INSTALL IN" (MIN) GYPSHIM WALL BOARD WERE NOTED ON THE FLANS.
  ASTEN GO WITH ILM" SECRED OR 15 76" NAILS GYACED TO "OC.
  ALONG PAVEL EDGES AND IN THE FIELD INCLUDING TOP AND POUTCHER ATTS.
- ACOM PARCE ELGES AND WE PERCH MICHAEL OF TO BO MPH.
  DOTTON FILL ATES.
  BRACED WALL DESIGN APPLIED IN WIND ZONES WP TO BO MPH.
  FOR HIGH WAD 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.

- L PER SECTION R602/032 OF THE 70/8 NCRC, 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 7/6\* OSB SHEATHING ATTACKED WITH A NALLS AND A SHEATHING ATTACKED WITH A NALLS AND 12\* OC. N THE FIELD.

LINTEL SCHEDULE FOR BRICKNATURAL STONE SUPPORT		
LENGTH (FT.)	SIZE OF LINTEL	
UP 10 4 FT.	L 3 1/2 x 3 1/2 x 1/4	
4-8	L 5 x 3 1/2 x 5/16 LLV	
B AND GREATER	L 6 x 4 x 5/6 LLV	

### BRICK SUPPORT NOTES:

- LINTEL SCHEDULE APPLIES TO ALL OFFINGS IN BRICK VENEER (INO.), SEE ARCH DUGS, FOR SIZE AND LOCATION OF
- CPENNSS.
  (ILLY) \* LONG LEG VERTICAL
  LENGTH \* CLEAR OFENNS
  FYBED ALL ANGLE IRONS MIN 4" EACH
  SIDE NIO VENEER TO PROVIDE BEARNS
  FOR ALL HEADERS S"-S" AND GREATER
  N LENGTH, ATTACH STEEL ANGLE TO
  HEADER W 1/3" LAG \$CREWS \* 12" O.C.
  ATMACEBER W
- 6TAGERED.

  FASTEN (2) 7 × 10 BLOCKING BETWEEN

  STUDS 10 (4) 12 d NAIL 6 PER PLY TASTEN

  A 6 1 × 4 1 × 5 10 6 STEEL ANGLE TO (7) 2 ×

  10 BLOCKING 10 (7) 12 LAG SCREUS 6 12

  CE THE 200 NCRE FOR ADDITIONAL

  BRICK BURGERT ANGEMENT.
- PRICK SUPPORT INFORMATION
  PRECAST REINFORCED CONCRETE
  LINTELS ENGINEERED BY OTHERS MAY BE
  USED IN LIEU OF STEEL LINTELS.

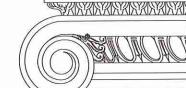
### TABLE R602,15 MINIMIM NUMBER OF RULL HEIGHT 6TUDS AT EACH END OF HEADERS IN EXTERIOR BULLS

EADER SPAN	MAXIMUM STUD SPACING (NCHES) (PER TABLE RG013/5)	
(PEE)	16	24
UP TO 3'		1
4"	2	1
8'	3	2
ימ	5	3
16"	6	4

### STRUCTURAL NOTES:

- ALL FRAMMS LIMBER TO BE 64F 12 (INO).
  ALL TREATED LIMBER TO BE 61F 19 (INO)
  ALL LOAD BEARN'S HEADERS TO BE (3) 2 x 6 (INO).
  UNDOUT AND DOOR HEADERS TO BE SUPPORTED W (I) JACK 61ID AND (I) KING 51ID EA END (INO). SEE TABLE RE021.5
  EVER ADDITIONAL KING SIND REQUIREMENTS.
- FOR ADDITIONAL KING STUD REQUIREMENTS SQUARES DENOTE POINT LOADS WHICH
- REQUIRE SOLID BLOCKING TO GIRDER OR FOUNDATION. ALL SQUARES TO BE (2) STUDS (MO).
  FOR HIGH WIND ZONES, ALL EXTERIOR WALLS
- FOR HIGH UND ZOXES, ALL EXTERIOR UALLS
  TO BE SHEATHED UITH 1/6" 096 SHEATHAN
  UITH JONTS BLOCKED AND SECURED UITH
  BOX NALLS AT 3" 00". ALON'S EDGES AND 6"
  O.C. IN THE FIELD.
  FOR HIGH UND ZOXES, SECURE ALL
  EXTERIOR WALL SHEATHAN PASELS TO
  DOUBLE TOP PLATES, BANDS, JOSTS, AND
  GIRDERS UITH (2) ROUS OF 84 NALLS
  STAGGERED AT 3" 00". PASELS SHALL
  EXTERIO 2" SEYOND CONSTRUCTION JOINTS
  AND SHALL OVERLAP GROCESS AND
  DOUBLE SILL PLATES THEM RULL DEPTH.
  EFFER TO NOTES AND DETAIL SHEETS FOR

TSP - TRIPLE STUD POCKET



S ERING, UNTE 104 EAK. (919) 78599919 FAX. (919) 78 S

m m

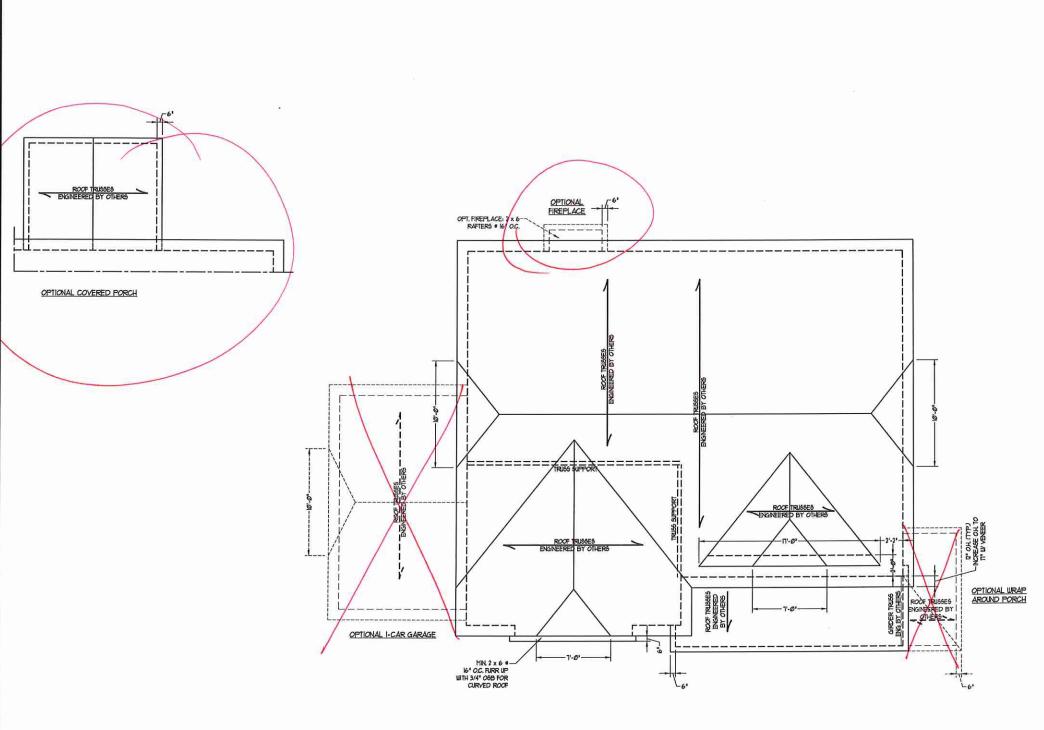
TOPSAIL H&H HOMES

DATE: NOVEMBER 2, 2020

DRAWN BY: HS-H HOMES GINEERED BY: WER

SHEET: 5 OF 8

S-3 ATTIC FLOOR FRAMING PLAN



ELEVATION C



### STRUCTURAL NOTES:

- STRUCTURAL NOTES:

  ALL FRAMING LIMBER TO BE '2'
  SFF (INO).

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

  RAM'E DOFFER WALLS ON TOP
  OF DOUBLE OR TRETLE RAFTERS.

  HIP SPILCES ARE TO BE SPACED
  A HIN OF 8'-8'. FASTSIN
  HEYBERS WITH THREE ROUS OF
  US MILLEY SO BY SOC.

  2 × 6 RAFTERS 9 '8' OC. (TYP)
  BY STANDARD STRUCKS WITH
  SOF SECTIONS WI 2 × 8 FINCES,

  2 × 6 RAFTERS 9 '8' OC. AND
  HAT 2 × 10 VALLEYS OR USE
  VALLEY TRUSSES.

  6. FASTSIN FLAT VALLEYS TO
  RAFTERS OR TRUSSES WITH
  SOFFON WIDS HARRICANE
  TIES THROUGH NOTCH IN ROOF
  SHEATHNS. EACH RAFTER 19 TO
  BE FASTSINED TO THE FLAT
  VALLEY WITH A MIN OF (6) DOT
  TOE NAILS.

  1. REFER TO SECTION RESOLUTOF THE
  20'B NORC FOR REQUIRED UPI-FT
  RESISTANCE AT RAFTERS AND
  TRUSSES.

  8. REFER TO NOTES AND DETAIL
  SHEETS FOR ADDITIONAL
  STRUCTURAL INFORMATION

### BRICK SUPPORT NOTE:

- L FASTEN (2) 2 x 10 BLOCKING BETWEEN WALL STUDS w' (4) 2d NAULS FER FLY, FASTEN A 6" x 4" x 5/6" 5 STEEL ANGLE TO (7) 2 x 10 BLOCKING W' (2) 10" L NG SCREWS \* 2" O.C. 51 AGGERED. SEE SECTION RT03931 OF THE 2009 NACE FOR ADDITIONAL BRICK SUPPORT INFORMATION.

  UHERIE ROOF 6, OPFES EXCEED 1/2, NSTALL 3" x 3" x 14" 5 STEEL PLATE 5 TOPS AT 24" O.C. FER SECTION RT03931 OF THE MORTH CAROLINA RESIDENTIAL CODE, 2019 EDITION.

ENGINEERING, INC
608 WADE AVE. SUTE 104 PALEICH, NC 27605
PHONE, SUTE 104 PALEICH, NC 27605
PHONE SUTE 105 7783917859921

YARARARKARKARK

TOPSAIL H&H HOMES

DATE: NOVEMBER 2, 2020

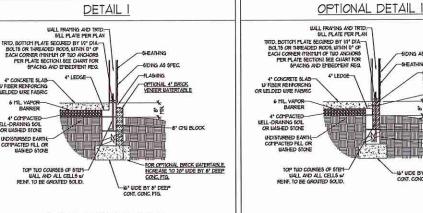
SCALE: 1/4" = I'A"

DRAWN BY: H&H HOMES

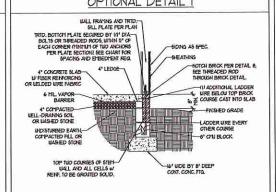
sheet. 8 оғ. 8 S-4c

ROOF FRAMING PLAN

### STEMWALL DETAILS



TYPICAL STEM WALL DETAIL (w/ OPTIONAL WATERTABLE)



OPTIONAL STEM WALL DETAIL

SIDNG AS SPEC

-16" UDE BY 6" DEEP CONT. CONC. FTG.

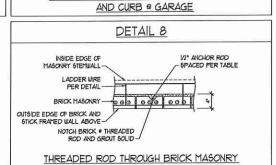
LADDER WRE EVERY OTHER COURSE

6' CHU BLOCK

### DETAIL 3 DETAIL 2 BILL PLATE FER PLAN IRID. BOTTOM PLATE SECURED BY IN' DIA-BOLTS OR THREADED ROOS, WITHIN IN' OF EACH CORNER (MINIMIN OF TWO ANCHORS FER PLATE SECTION SEE CHART FOR 1-4" VERTICALLY AND 1-4" VERTICALLY AND 1-6" HORSZONTALLY TRID, BOTTOM PLATE SEQUED BY IV! DIA-BOLTS OR THREADED RODS, LITHIN B" OF EACH CORRECT INTIKINI OF TID ANCHORS PER PLATE SECTION, SEE CHART FOR SPACING AND EMBEDMENT REQ. 6 ML VAPOR 6 HL VAPOR 4" COMPACTED-LIELL-DRANNG SOIL OR LUSSED STONE -LADDER WRE EVERY OTHER COURSE -D' CHI BLOCK CONT, CONC, FTG.

TYPICAL STEM WALL FND. DETAIL W/ CURB @ GARAGE TYPICAL STEM WALL FND. W/ BRICK DETAIL DETAIL 4 OPTIONAL DETAIL 3 BALL FRAMING AND TRIDS 3 x 6 WALL FRAMING AND TRTD.-SALL PLATE PER PLAN TRID. BOTTON PLATE SECURED BY IA' DIA-BOLTS OR THREADED ROD WITHIN II' OF EACH CORRER (THINTUM OF THE ANCHORS FER PLATE SECTION, SEE CHART FOR SPACING AND BYBEDYENT REQ. 2 x 6 MN, TRID, BOTTOM PLATE SECURED BY SIDING AS SPEC. - FLASHING OTCH BRICK FER DETAIL 4" CONCRETE BLAS-6 ML VAPOR BARRER 6 MIL VAPOR BARRIER 为星 4" COMPACTED-UELL-DRANNS SOLL OR WASHED STONE FINISHED GRADE 4" COMPACTED WELL-DRANING SOIL OR WASHED STONE LADDER URE EVER OTHER COURSE e CHI BLOCK TOP TUD COURSES OF STEP WALL AND ALL CELLS & RENF, TO BE GROUTED SOLID

OPTIONAL STEM WALL FND. DETAIL W/ CURB @ GARAGE



TYPICAL STEM WALL FND. DETAIL W/ BRICK

MASONRY STEMWALL SPECIFICATIONS 4" BRICK AND 4" 4" BRICK AND 8" 8" CMJ 12° CMJ GROUT SOLID UNGROUTED UNGROUTED 2 AND BELOW UNGROUTED UNGROUTED GROUT SOLID UNGROUTED UNGROUTED GROUT SOLID w/ \*4 REBAR # 64\* O.C. SROUT SOLID #/ 4 GROUT SOLID GROUT SOLID REBAR # 48" O.C. GROUT SOLID u/ 4 REBAR # 36" O.C. GROUT SOLID W/ N REBAR # 64" O.C. GROUT SOLID w/ 4 REBAR # 36" O.C. NOT APPLICABLE GROUT SOLID #/ 44 GROUT SOLID #/ 4 GROUT SOLID w/ 14 NOT APPLICABLE REBAR # 24" OC. REBAR # 64" O.C. AND GREATER ENGINEERED DESIGN BASED ON SITE CONDITIONS

STRUCTURAL NOTES:

L WALL HEIGHT MEASURED FROM TOP OF FOOTING TO TOP OF THE WALL.

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

3. CHART APPLICABLE FOR HOUSE FORDMATICH ONLY, CONSILT ENGINEER FOR DESIGN OF GARAGE FONDMATION NOT COTYCH TO HOUSE.

4. BACKFILL OF CLEAN \$1 1" NoT WASHED STONE IS ALLOWABLE.

5. BACKFILL OF WELL DRAINED OR SAND - GRAVEL MIXTURE SOLIS (45 PSP-FT BELOW GRADE) CLASSFIED AS GROUP! I ACCORDING TO WHIED SOLIS CLASSFICATION SYSTEM IN ACCORDANCE WITH TABLE RAGS) OF THE 2019 INTERNATIONAL RESIDENTIAL CODE ARE ALLOWABLE.

6. PREP \$1.00 PSP RE 500-21 AND 500-02 2 BASE OF THE 2019 INTERNATIONAL RESIDENTIAL CODE. HINNMM 14" LAP SPILCE LENGTH.

1. LOCATE REBAR IN CENTER OF FORM DATION WALL.

8. WHERE REQUIRED, FILL BLOCK SOLID WITH TYPE "5" MORTAR OR 30000 PSI GROUT, WSE OF "LOU LET GROUTING" METHOD REQUIRED WHEN FILLING WALLS WITH GROUT AT HEIGHTS OF 5" AND GREATER.

ANCHOR SPACING AND EMBEDMENT		
WIND ZONE	120 MPH	130 MPH
SPACING	6'-0" O.C.	4'-0" O.C.
MBEDMENT	r	15" INTO MASONRY 1" INTO CONCRETE

Z 50927 0 RALEIGH, O WITE 104 I S Z S 

Q

YAYAYAYAYAYAYAY

SPI MPH ULTIMATE DESIGN FOUNDATION DETAILS 130 MPH 20

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

D-1 FOUNDATION DETAILS

SEAL 33736

### GENERAL WALL BRACING NOTES:

- L. WALL BRACING DESIGNED IN ACCORDANCE WITH CHAPTER 6 OF THE 2018 NC RESIDENTIAL BUILDING CODE (NORC).
- TABLES AND FIGURES REFERENCED ARE FROM THE 2008 NCRC.

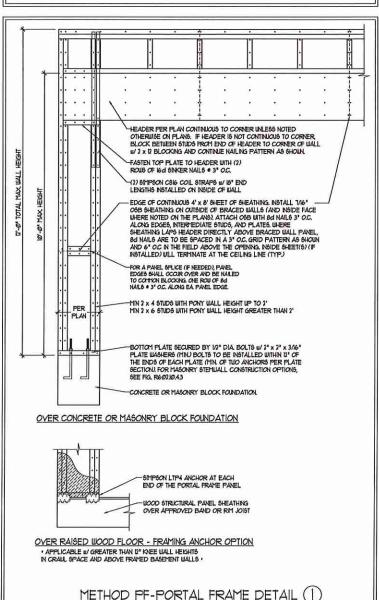
  2. SEE THIS SHEET FOR GENERAL DETAILS. REFER TO THE 2008 NCRC FOR ADDITIONAL INFORMATION AS NEEDED.

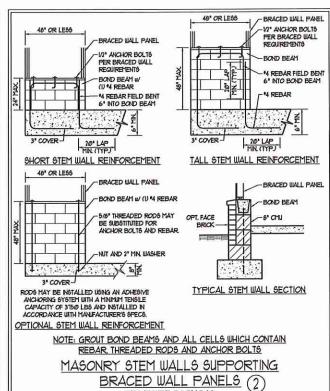
  3. SEE STRUCKTURAL SHEETS FOR BRACED WILL LOCATIONS, DYNEWSKINS, HOLD DOWN TYPE AND LOCATIONS, BRACED WALL

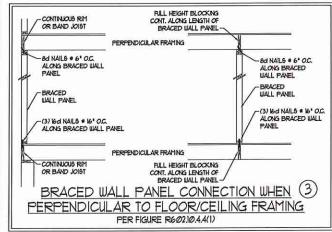
  LINE KEY WITH WALL DESKIN SUMMARY OF REQUIRED/PROVIDED TOTALS FOR EACH WALL LINE AND ANY SPECIAL NOTES
- 4. ALL EXTERIOR WALLS ARE TO BE SHEATHED WITH CS-USP IN ACCORDANCE WITH SECTION R6/07/2/3 UNLESS NOTED
- 5. ALL EXTERIOR AND INTERIOR WALLS TO HAVE IV! GYPSUM INSTALLED, WHEN NOT USING METHOD "GB", GYPSUM TO BE
- 5. ALL EXTENSION AND MICHOUGH PLOT OF THE PROPRIED FER TABLE REGINED. GP, GTPONT IO BE FASTINED FER TABLE RIGINS. HERDON GP GTPONT IO BE FASTINED FER TABLE REGINED.

  6. CS-USP RETERS TO THE "COMINIOUS SHEATING. UCOD STRICTURAL PARELS WALL BRACKS FETHOD. 11/6" OSB SHEATING IS TO BE INTALLED OR ALL EXTERIOR BULLS ATTACHED MED GO CONTON NAILS OR BD (2 1/2" LONG X 0/13" DIAYETER) NAILS SPACED 6" OC. ALCNG PAREL EDGES AND 12" OC. N THE FIELD (UND.)
- GB REFERS TO THE "GYPSUM BOARD" WALL BRACING METHOD. VZ" (MIN) GYPSUM WALL BOARD IS TO BE INSTALLED ON BOTH SIDES OF THE BRACED WALL FASTENED WITH I V4" SCREWS OR I 5/8" NAILS SPACED 7" OC. ALONG PANEL EDGES INCLUDING TOP AND BOTTOM PLATES AND INTERMEDIATE SUPPORTS (UN.O.). VERIFY ALL FASTENER OPTIONS FOR IQ! AND 5/8" GYPSUM PRIOR TO CONSTRUCTION. FOR INTERIOR FASTENER OPTIONS SEE TABLE R102.35. FOR EXTERIOR FASTENER
- OPTIONS SET TABLE READY. EXTERIOR OF TO BE INSTALLED VERTICALLY.

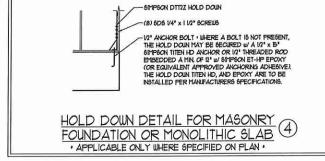
  REQUIRED BRACED WALL LENGTH FOR EACH SIDE OF THE CIRCUMSCRIBED RECTANGLE ARE NITERPOLATED PER TABLE READY. BY THE CIRCUMSCRIBED RECTANGLE ARE NITERPOLATED PER TABLE READY. BY THE CIRCUMSCRIBED RECTANGLE ARE NITERPOLATED PER TABLE READY. BY THE CONTRIBUTES IS THE ACTUAL LENGTH, METHOD GB CONTRIBUTES IS THE ACTUAL LENGTH, AND METHOD FOR CONTRIBUTES IS TIMES ITS ACTUAL LENGTH.

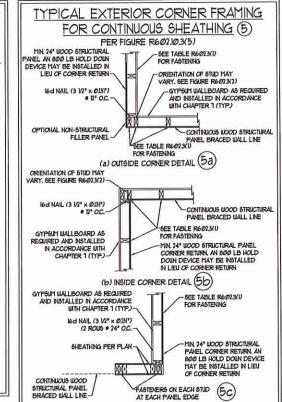






PER FIGURE R602.10.43





(c) GARAGE DOOR CORNER DETAIL (SEE PLAN FOR ADDITIONAL

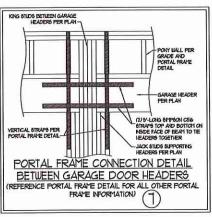
STRUCTURAL INFORMATION OR ALTERNATE CONFIGURATIONS)

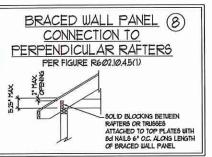
This sealed page is to be used in conjunction with a full plan set engineered by J.S. Thompson Engineering, Inc.

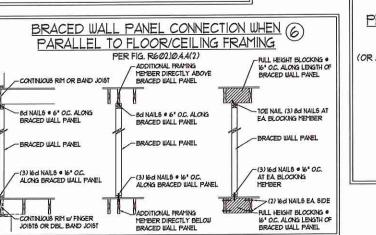
only. Use of this individual sealed page within

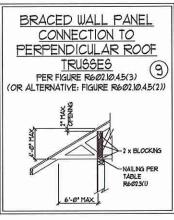
architectural pages or shop drawings by others is a

punishable offense under N.C. Statute § 89C-23









DATE: NOVEMBER 14, 2015 CALE: 1/4" - 1'0'

NOINFERED BY- IST

D-2 BRACED WALL NOTES AND DETAILS AND PF DETAIL

SEAL 33738

O 2 50912 3 0 5 MI O WE TO THE I S Z §

> SPEED DESIGN WIND S AND DETAILS AND ILTIMATE D MPH ULTI BRACING MPH - 130 WALL I

DRAWN BY: IST

- 1 BASINEER'S SEAL APPLIES ONLY TO STRUCTURAL COMPONENTS INCLUDING ROOF RAFTERS, HIPS, VALLEYS, RIDGES, FLOORS, WALLS, BEAMS, HEADERS, COLUMNS, CAVILLEVERS, OFFSET LOAD BEARNG WALLS, PIERS, GIRDER SYSTEM AND FOOTING. DISENEER'S SEAL DOES NOT CERTIFY DIMENSIONAL ACCURACY OF ARCHITECTURAL LAYOUT INCLIDING ROOF. BYSINEER'S SEAL DOES NOT APPLY TO I-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, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES, OR SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE CONSTRUCTION WORK, NOR WILL THE ENGINEER BE RESPONSIBLE FOR THE CONTRACTORS FAILURE TO CARRY OUT THE CONSTRUCTION WORK IN ACCORDANCE
- 3. STRUCTURAL DESIGN BASED ON THE PROVISIONS OF THE NORC, 2018 EDITION (R3014 R3011)

DESIGN CRITERIA	LIVE LOAD (PSF)	DEAD LOAD (PSF)	DEFLECTION (IN)
ATTIC WITH LIMITED STORAGE	20	Ю	L/140 (L/360 w/ BRITTLE FINISHES)
ATTIC WITHOUT STORAGE	10	ש	L/36Ø
DECKS	40	lø.	L/36Ø
EXTERIOR BALCONIES	40	10	L/360
FIRE ESCAPES	40	10	LBED
HANDRAIL SAGUARDRAIL S	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	lø.	L/36Ø
WIND LOAD	(BASED ON TABLE R3012(4) UND ZONE AND EXPOSURE)		
GROUND SNOW LOAD: Pa	20 (PSF)		

- I-JOIST SYSTEMS DESIGNED WITH IZ PSF DEAD LOAD AND DEFLECTION (IN) OF L/4800 - FLOOR TRUSS SYSTEMS DESIGNED WITH IS PSF DEAD LOAD
- 4. FOR 15 AND 100 MPH WIND ZONES, FOUNDATION ANCHORAGE IS TO COMPLY WITH SECTION R40316 OF THE NORC, 2018 EDITION, FOR 150 MPH, 140 MPH, AND BY MPH WIND ZONES, FOUNDATION ANCHORAGE IS TO COMPLY WITH SECTION 45/04 OF THE NORC, 2018 EDITION.
- 5. ENERGY EFFICIENCY COMPLIANCE AND INSULATION VALUES OF THE BUILDING TO BE IN ACCORDANCE WITH CHAPTER II OF THE NORC, 70/9 EDITION.

### FOOTING AND FOUNDATION NOTES

- L FOUNDATION DESIGN BASED ON A MINIMUM ALLOWABLE BEARNIS CAPACITY OF 2000 PSF. CONTACT GEOTECHNICAL ENGINEER IF BEARNIS CAPACITY IS NOT ACHIEVED.
- 7. FOR ALL CONCRETE SLABS AND FOOTNASS, THE AREA WITHIN THE PERMETER OF THE BUILDING ENVELOPE SHALL HAVE ALL VEGETATION, TOP SOIL AND FOREIGN MATERIAL REMOVED. FILL MATERIAL SHALL BE FREE OF VEGETATION AND FOREIGN MATERIAL. THE FILL SHALL BE COMPACTED TO ASSURE UNFORM SUPPORT OF THE SLAB, AND EXCEPT WHERE APPROVED, THE FILL DEPTHS SHALL NOT EXCEED 74° FOR CLEAN GRAD OR GRAVEL SHALL BE FLACED. A BASE COURSE IS NOT REQUIRED WHERE A CONCRETE SLAB IS INSTALLED ON WELL-DRAINED OR SAND-GRAVEL MALL BE FLACED. A BASE COURSE IS NOT REQUIRED WHERE A CONCRETE SLAB IS INSTALLED ON WELL-DRAINED OR SAND-GRAVEL MIXTURE SOILS CLASSIFIED AS GROUP I, ACCORDING TO THE UNITED SOIL CLASSIFICATION SYSTEM IN ACCORDANCE WITH TABLE R4051 OF THE NORC, 2018 EDITION
- PROPERLY DEWATER EXCAVATION PRIOR TO POURNIS CONCRETE WHEN BOTTOM OF CONCRETE \$1.40 IB AT OR BELOW WATER TABLE. F
  APPLICABLE, 3/4" I" DEEP CONTROL JOINTS ARE TO BE SAMED WITHIN 4 TO IT HOURS OF CONCRETE FINISHING AND WALL LOCATIONS HAVE
  BEEN MARKED. ADJUST WHERE NECESSARY.
- 4. CONCRETE SHALL CONFORM TO SECTION R4012 OF THE NORC, 70/08 EDITION. CONCRETE RENFORCING STEEL TO BE ASTM AGB GRADE 6/0.

  UELDED UINE FARRIC TO BE ASTM AGB, HANTAIN A HINIMIN CONCRETE COVER AROUND RENFORCING STEEL OF 3" IN FOOTINGS AND 1/0" IN

  BLABS, FOR PROMED CONCRETE UILLIS, CONCRETE COVER FOR RENFORCING STEEL PREASURED THE MIDDE FACE OF THE UILL SHALL

  NOT BE LEGG THAN 3/4". CONCRETE COVER FOR RENFORCING STEEL MEASURED FROM THE MODERACE OF THE UILL SHALL NOT BE LEGG
- MASCHRY 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 WHILLED HOLDU CONCRETE HASONRY WITS AND THE TIMES THEIR LEAST DIMENSION FOR SOLID OR SOLID FILLED FIERS, FERS MAY BE FILLED SOLID WITH CONCRETE OR TYPE M OR 8 MORTAR PIERS AND WALLS SHALL BE CAPPED WITH 8" OF SOLID MASONRY.
- THE CENTER OF EACH OF THE PIERS SHALL BEAR IN THE MIDDLE THIRD OF ITS RESPECTIVE FOOTING, EACH GIRDER SHALL, BEAR IN THE MIDDLE THIRD OF THE PIERS.
- 8. ALL CONCRETE AND MASONRY FOUNDATION WALLS ARE TO BE CONSTRUCTED IN ACCORDANCE WITH THE PROVISIONS OF SECTION R404 OF THE NCRC, 2018 EDITION OR IN ACCORDANCE WITH WITH THE PROVISIONS OF SECTION REPORT HE NOW, 2009 EDITION OR IN ACCORDANCE WITH ACI 1918, ACI 1939, NOTAL TRESH-A OR ACE SEQUIAGOE ENTITLE 462. THASONY FOUNDATION WILLE ARE TO BE REINFORCED FER TABLE RAPALKI), RAPALKI), RAPALKI), OR RAPALKI) OF THE NORG, 2019 EDITION. CONCRETE FOUNDATION WALLE ARE TO BE REINFORCED FER TABLE RAPALKISTO OF THE NORG, 2018 EDITION. STOPE CONCRETE FOUNDATION WALLE TO 2 x 6 FRAFED WALLE AT 16° OC. WHERE GRADE FERTITES (UNO).

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

### FRAMING NOTES

- LAMNATED VENEER (LIMBER (LVL.) 64.4LL HAVE THE FOLLOUNG MINIMM PROPERTIES: FO \* 1600 PGI, FV \* 165 PGI, E \* 1800000 PGI.
  LAMNATED STRAND LIMBER (LGL.) 64.4LL HAVE THE FOLLOUNG MINIMM PROPERTIES: FO \* 2375 PGI, FV \* 310 PGI, E \* 650000 PGI.

A	W AND WT SHAPES	A5TM A992
B.	CHANNELS AND ANGLES:	ASTM A36
C.	PLATES AND BARS:	A51M A36
D.	HOLLOW STRUCTURAL SECTIONS:	ASTM A500 GRADE B
E.	STEEL PIPE:	ASIM A53, GRADE B, TYPE E OR I

STEEL BEAMS SHALL BE SUPPORTED AT EACH END WITH A HINIMM BEARNS LENGTH OF 3 1/2" AND FILL FLANGE WIDTH (INFO). PROVIDE SOLID BEARNS 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 (2) 1/2" DIA x 4" LIEDGE ANCHORS (2) 1/2" DIA x 4" LONG SIMPSON TITEN HD 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 W (2) ROUS OF SELF TAPPING SCREUS # 16" O.C. OR (2) ROUS OF I/I" DIAMETER BOLTS & 16" O.C. IF 1/1" BOLTS ARE USED TO FASTEN THE NAILER, THE STEEL BEAM SHALL BE FABRICATED W/ (2) ROUS OF 9/16" DIAMETER

- 6. ALL LOAD BEARNS; HEADERS TO CORFORM TO TABLE REGISTRY AND REGISTRY OF THE NORC, 2019 EDITION OR BE (2) 2 x 6 WITH (1) JACK
  AND (1) KING STUD EACH END (NO.), UNICHEVER 15 GREATER ALL HEADERS TO BE SECURED TO EACH JACK STUD WITH (4) 8d NAILS. ALL BEAMS TO BE SUPPORTED WITH (2) STUDS AT EACH BEARNIS POINT (UNO). INSTALL KING STUDS PER SECTION R6/02.15 OF THE NORTH CAROLINA RESIDENTIAL CODE, 2018 EDITION
- ALL BEAYS, HEADERS, OR GIRDER TRUSSES PARALLEL TO WALL ARE TO BEAR FULLY ON (1) JACK OR (7) 5TUDS MINIMUM OR THE INMBER OF JACKS OR STUDS NOTED. ALL BEAYS OR GIRDER TRUSSES PERPENDICULAR TO WALL AND SUPPORTED BY (3) 5TUDS CASE TO HAYE I IN! MINIMUM BEARNIS (IND). ALL BEAYS OR GIRDER TRUSSES PERPENDICULAR TO WALL AND SUPPORTED BY MOSE THAN (3) 5TUDS OR OTHER NOTED COLUMN ARE TO BEAR FILLY ON SUPPORT COLUMN FOR ENTIRE WALL DEPTH (IND). BEAM ENDS THAT BUTT INTO ONE ANOTHER ARE TO EACH BEAR EQUAL LENGTHS (UNO).
- BOLTS SHALL BE SPACED AT 24" CENTERS (MAXIMUM), AND STAGGERED AT TOP AND BOTTOM OF BEAM (2" EDGE DISTANCE), WITH (2) BOLTS
- ALL I-JOIST OR TRUSS LAYOUTS ARE TO BE IN COMPLIANCE WITH THE OVERALL DESIGN SPECFIED ON THE PLANS. ALL DEVIATIONS ARE TO BE BROUGHT TO THE ATTENTION OF THE ENGINEER OF RECORD PRIOR TO INSTALLATION
- CRITERIA. THE AMOUNT, LENGTH, AND LOCATION OF BRACING SHALL COMPLY WITH ALL APPLICABLE TABLES IN SECTION R60230.
- 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
- EMBEDIENT AT BIDES FOR BRICK SUPPORT (UNC). FOR ALL HEADERS S'-S' AND GREATER IN LENGTH, BOLT A 6" x 4" x 5/6" STEEL ANGLE TO HEADER WITH IN" LAG SCREWS AT B" OC. STAGGERED FOR BRICK SUPPORT. FOR ALL BRICK SUPPORT AT ROOF LINES, BOLT A 6" x 4" x 12" O.C. STAGGERED AND IN ACCORDANCE WITH SECTION R103821 OF THE NORC, 2018 EDITION
- B. FOR STICK FRAMED ROOPS, CIRCLES DENOTE (3) 2 x 4 POSTS FOR ROOF MEMBER SUPPORT. HIP SPLICES ARE TO BE SPACED A MINIMAN OF 8'-0'. FASTEN MEMBERS WITH THREE ROWS OF I'D NAILS AT 16' OC. FRAME DORMER WALLS ON TOP OF DOUBLE OR TRIPLE RAFTERS AS
- 14. FOR TRUSSED ROOFS, FRAME DORMER WALLS ON TOP OF 2 x 4 LADDER FRAMING AT 24" O.C. BETWEEN ADJACENT ROOF TRUSSES. STICK PRAME 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 FRAMMS LUMBER SHALL BE 12 SPF MINIMUM (Fb = 815 P6), Fv = 315 P6), E = 16/00/00/0 P6() UNLES6 NOTED OTHERUISE (INO). ALL TREATED LUMBER SHALL BE 12 SYP MINIMUM (Fb = 915 P6), Fv = 115 P6), E = 16/00/00/0 P6() UNLES6 NOTED OTHERUISE (INO).

PARALLEL STRAND LUMBER (PSL) UP TO 1" DEPTH GHALL HAVE THE FOLLOWING MINIMUM PROPERTIES: FG = 2500 PSI, E = 18000000 PSI.
PARALLEL STRAND LUMBER (PSI,) MORE THAN 1" DEPTH GHALL HAVE THE FOLLOWING MINIMUM PROPERTIES: FG = 2900 PSI, E = 20000000 PRI NATALL ALL CONFICTIONS PER MANUFACTURER'S SPECIFICATIONS.

3. STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING ASTM SPECIFICATIONS

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

8. FLITCH BEAMS SHALL BE BOLTED TOGETHER USING 12" DIAMETER BOLTS (ASTM A30") WITH WASHERS PLACED AT THREADED END OF BOLT.

10. BRACED WALL PANELS SHALL BE CONSTRUCTED ACCORDING TO THE NORTH CAROLINA RESIDENTIAL CODE 2018 EDITION WALL BRACING

FOR ALL HEADERS SUPPORTING BRICK VENEER THAT ARE LESS THAN 8'-0" IN LENGTH, REST A 6" x 4" x 5/6" STEEL ANGLE WITH 6" MINIMUM

- 5/6" STEEL ANGLE TO (2) 2 x 10 BLOCKING INSTALLED W (4) 12d NAILS EA PLY BETWEEN WALL STUDS WITH (2) ROUS OF 1/2" LAG SCREWS AT
- 5. ALL 4 x 4 AND 6 x 6 POSTS TO BE INSTALLED WITH 100 LB CAPACITY UPLIFT CONNECTORS TOP AND BOTTOM (UNO.) POSTS MAY BE SECURED USING ONE SIMPSON HE OR LISTE LIFT CONNECTOR FASTENED TO THE BAND AT THE BOTTOM AND THE BEAM AT THE TOP OF EACH POST, ONE IS "SECTION OF SIMPSON CSIS COIL STRAPPING WITH (8) BUT HOU NAILS AT EACH END MAY BE USED IN LIEU OF EACH TUIST STRAP IF DESIRED. FOR MASONRY OR CONCRETE FOUNDATION USE SIMPSON POST BASE.

O 2 58 72

S

SP WIND CTIMATE DESIGN WIN STRUCTURAL NOTES · 130 MPH UL STANDARD 8 MPH

DATE: NOVEMBER 14, 2018

RAWN BY: IES GINEERED BY: IST

S-0 STRUCTURAL