

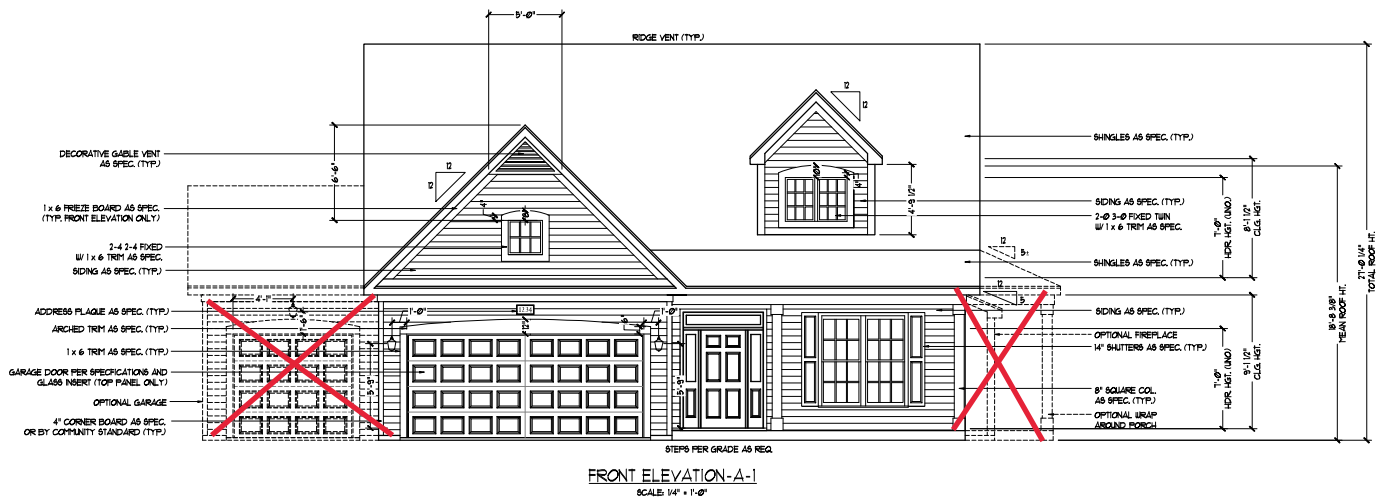
KENT

KENT REVISION LIST - STRUCTURAL:

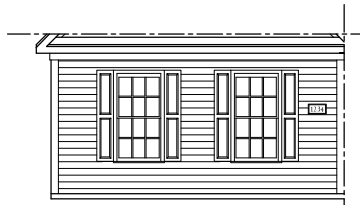
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KENT REVISION LIST - ARCHITECTURAL:

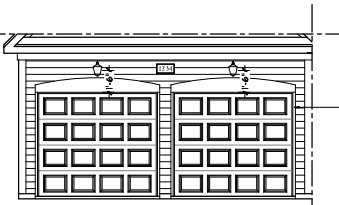
1. ADDED NOTE TO EXTEND STAIR CLIP IN POWDER ROOM THE LENGTH OF THE ROOM (3-19)
2. SHOWED AHU AND MECH. LOCATIONS ON SECOND FLOOR (3-19)
3. UPDATED PLAN TO NEW CAD FORMAT AND ADDED COVER SHEET (3-19)
4. UPDATED CUTSHEETS (3-19)
5. CHANGED FIREPLACE FROM STANDARD TO OPTIONAL (7-25)
6. CHANGE FIREPLACE FROM 36" TO 32". (11-21-19)
7. ADDED ROOM DIMENSIONS. (11-21-19)
8. CHANGE ROOM NAMES FROM MASTERS TO OWNERS. (11-21-19)
9. VERIFIED AND UPDATED SQUARE FOOTAGE ON FIRST AND SECOND FLOOR. (11-21-19)
10. ADDED ROOF VENTING CALCULATIONS FOR ELEV A, B, AND C. (11-29-19)
11. ADDED GOURMET KITCHEN LAYOUT OPTION. (12-23-19)
12. CHANGE FIREPLACE FROM STANDARD TO OPTIONAL. (12-23-19)
13. REMOVE GLASS INSERTS AT GARAGE DOORS. (12-23-19)
14. REMOVE METAL ACCESSORIES AT GARAGE DOORS. (12-23-19)
15. UPDATED CUTSHEETS PER H&H STANDARDS. (1-16-20)
16. CHANGE FIREPLACE FROM STANDARD TO OPTIONAL. (1-16-20)
17. CALLED OUT REFRIGERATOR, WASHER, AND DRYER ARE OPTIONAL COMPONENTS. (1-16-20)
18. VERIFIED COACH LIGHT LOCATIONS ON ALL ELEVATIONS (03-30-20)
19. REMOVED GRIDS FROM WINDOWS AND DOORS ON ALL SIDE AND REAR ELEVATIONS (03-30-20)
20. REMOVED ROOF HATCH FROM ALL ELEVATIONS (03-30-20)
21. CHANGED NOTE FOR ALL GARAGES ON ELEVATIONS TO UPDATED NOTE (03-30-20)
22. UPDATED HATCHES ON ALL ELEVATIONS TO REPRESENT STONE BETTER (03-30-20)
23. ADDED ELEVATIONS TO SHOW STONE AND BRICK OPTIONS ON A-2, A-3, B-2, B-3, C-2, & C-3 (03-30-20)
24. ADDED COLUMN DETAIL FOR B ELEVATIONS (03-30-20)
25. FIXED WINDOW TRIM AND BRICK ROWLOCK ON B-3 & B-4 (03-30-20)
26. VERIFIED AND UPDATED SQUARE FOOTAGE WITH & WITHOUT BRICK (03-30-20)
27. ADDED DIAGONAL DIMENSIONS TO SLAB INTERFACE PLAN (03-30-20)
28. ADDED OWNER'S BATH 2 & 3 IN OPTIONS SHEET (03-30-20)
29. REPLACED OWNER'S BATH WITH OWNER'S BATH 1 ON BASE PLAN (03-30-20)
30. CHANGED ALL WALLS FROM 2x6 TO 2x4 EXCEPT WHERE SHADED (03-30-20)
31. CHANGED ROOM NAME 'NOOK' TO 'DINING ROOM' (03-30-20)
32. ADDED HOSE BIB LOCATIONS TO OPPOSITE SIDES OF THE HOUSE ON FRONT AND REAR (03-30-20)
33. CHANGED STANDARD PATIO TO 12x10' (03-30-20)
34. NOTED *TEMP.* WINDOWS IN OWNER'S BATH (03-30-20)
35. MOVED ALL OPTIONS TO SEPARATE SHEET (03-30-20)
36. SHOWED DORMER WINDOWS ON SECOND FLOOR (03-30-20)
37. ADDED NOTE FOR ATTIC ACCESS DOOR ON SECOND FLOOR (03-30-20)
38. NOTED *TEMP.* WINDOWS IN BEDROOM 2 AND BEDROOM 4 (03-30-20)
39. CHANGED STANDARD LIGHT IN KITCHEN TO FLUORESCENT LIGHT (03-30-20)
40. NOTED PENDANT LIGHTS AS OPTIONAL (03-30-20)
41. ADDED OPTIONAL FLOOR OUTLETS IN FAMILY ROOM (03-30-20)
42. REMOVED ALL OUTLETS EXCEPT OPTIONAL FLOOR OUTLET (03-30-20)
43. VERIFIED ALL COACH LIGHT LOCATIONS (03-30-20)
44. NOTED ALL FANS AS 'STD LIGHT, OPT FAN/LT PREWIRE' IN ALL BEDROOMS (03-30-20)
45. UPDATED ELECTRICAL LEGEND (03-30-20)
46. NOTED FLOOD LIGHTS AS OPTIONAL (03-30-20)
47. UPDATED OWNER'S BATHROOM WINDOWS TO REAR ELEVATIONS (08-29-22)
48. OPTIONAL BRICK/STONE WATERTABLE ADDED TO SIDE & REAR ELEVATIONS (05-01-23)



FRONT ELEVATION A-1
SCALE: 1/4" = 1'-0"

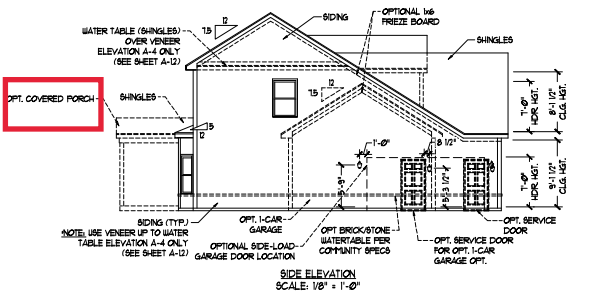


SIDE-LOAD GARAGE OPTION
(NOT AVAILABLE WITH OPTIONAL ONE-CAR GARAGE)
SCALE: 1/4" = 1'-0"

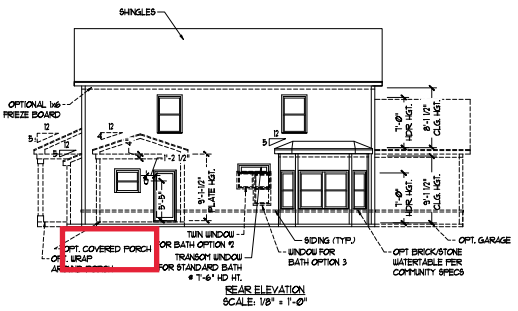


DOUBLE GARAGE DOOR OPTION
(ONLY AVAILABLE WITH FRONT LOAD GARAGE)
SCALE: 1/4" = 1'-0"

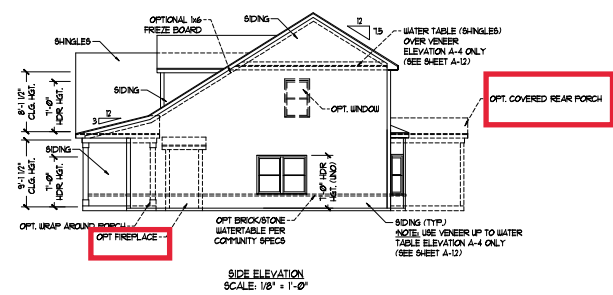
NOTE:
SEE SHEET A-11 FOR BRICK FRONT ELEVATIONS
SEE SHEET A-12 FOR STONE FRONT ELEVATIONS
SEE SHEET A-13 (ALL BRICK) ELEVATIONS



SIDE ELEVATION
SCALE: 1/8" = 1'-0"



REAR ELEVATION
SCALE: 1/8" = 1'-0"



SIDE ELEVATION
SCALE: 1/8" = 1'-0"

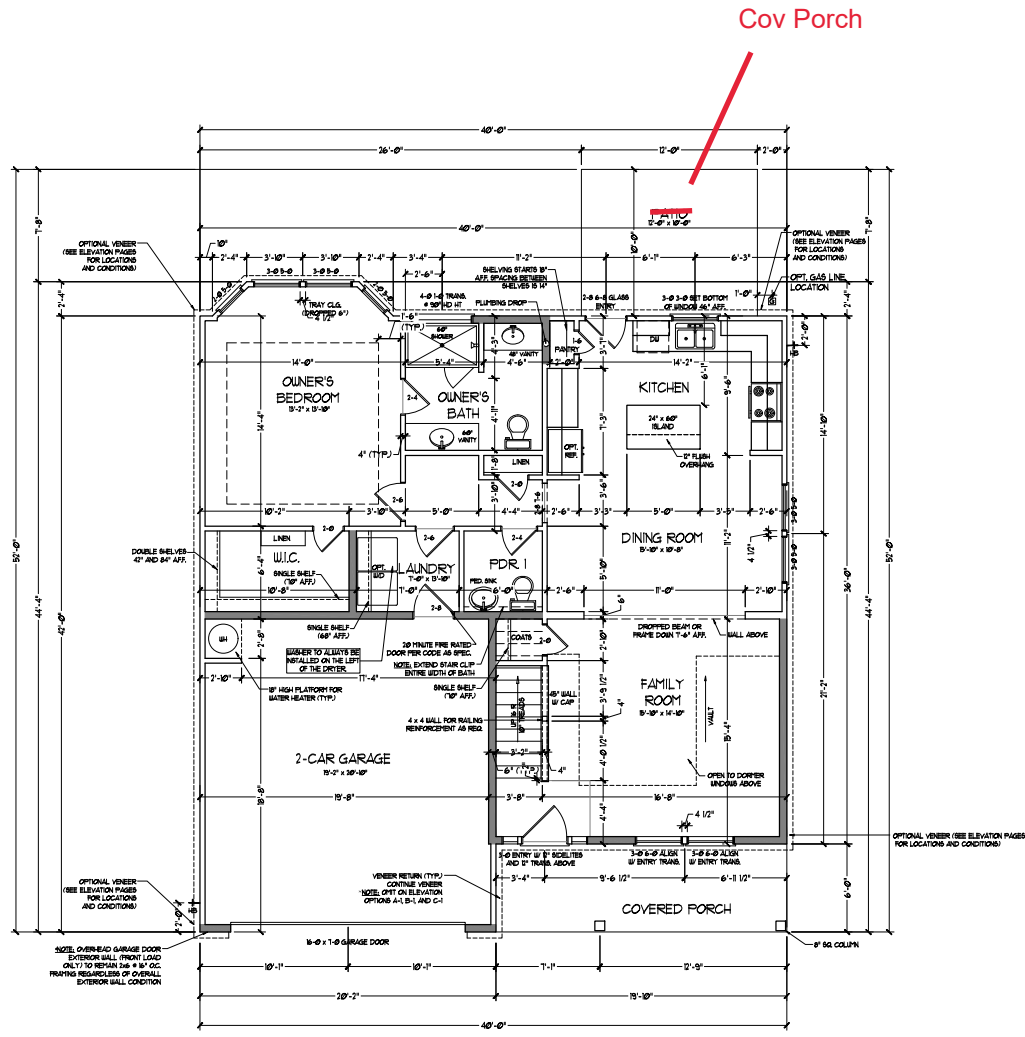


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SCALE: AS NOTED
DRAWN BY: WG
ENGINEERED BY:
REVIEWED BY:

A-1 ELEVATION
A-1



FIRST FLOOR PLAN
(A-1, B-1 AND C-1)

| SQUARE FOOTAGE | |
|------------------------|-------------|
| 1st FLOOR | 161 SQ. FT. |
| 2nd FLOOR | 52 SQ. FT. |
| TOTAL | 213 SQ. FT. |
| GARAGE | 42 SQ. FT. |
| FRONT PORCH | 79 SQ. FT. |
| PATIO | 52 SQ. FT. |
| 1st FLOOR OPTIONS | |
| OPT. FIREPLACE | 19 SQ. FT. |
| UNHEATED OPTIONS | |
| OPT. 1-CAR GARAGE | 249 SQ. FT. |
| OPT. COVERED PORCH | 58 SQ. FT. |
| OPT. EXTENDED PATIO | 158 SQ. FT. |
| OPT. WRAP AROUND PORCH | 449 SQ. FT. |

| SQUARE FOOTAGE (w/ FULL BRICK) | |
|--------------------------------|-------------|
| 1st FLOOR | 171 SQ. FT. |
| 2nd FLOOR | 69 SQ. FT. |
| TOTAL | 240 SQ. FT. |
| GARAGE | 42 SQ. FT. |
| FRONT PORCH | 79 SQ. FT. |
| PATIO | 52 SQ. FT. |
| 1st FLOOR OPTIONS | |
| OPT. FIREPLACE | 19 SQ. FT. |
| UNHEATED OPTIONS | |
| OPT. 1-CAR GARAGE | 259 SQ. FT. |
| OPT. COVERED PORCH | 67 SQ. FT. |
| OPT. EXTENDED PATIO | 167 SQ. FT. |
| OPT. WRAP AROUND PORCH | 458 SQ. FT. |

NOTE: ALL EXTERIOR WALLS AND ATTIC WALLS ARE TO BE 2" x 4" @ 16" O.C. (INCL). ALL INTERIOR LOAD BEARING WALLS ARE TO BE 2" x 4" @ 16" O.C. (INCL) AND NON-LOAD BEARING INTERIOR WALLS ARE TO BE 2" x 4" @ 24" O.C. (INCL).

2x6 WALL

*SHADED WALLS ARE TO BE 2" x 4" @ 16" O.C. (LOAD BEARING) OR 2" x 4" @ 24" O.C. (NON-LOAD BEARING) REGARDLESS OF EXTERIOR WALL CONDITION.

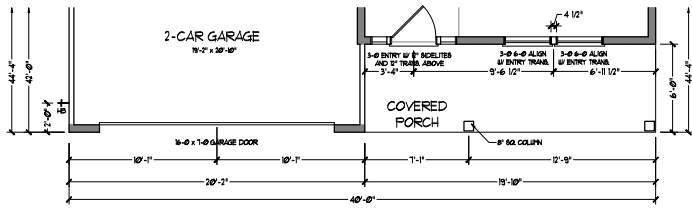
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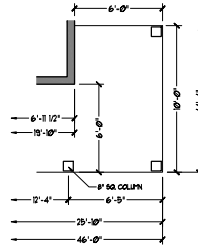
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SCALE: 1/4" = 1'-0"
DRAWN BY: WJG
ENGINEERED BY:
REVIEWED BY:

FIRST FLOOR PLAN
A-6

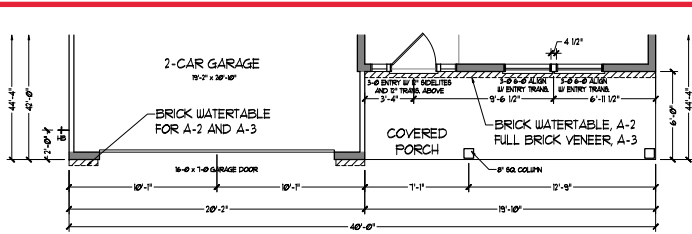




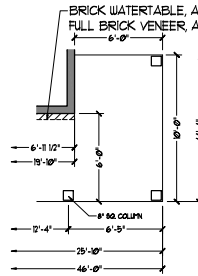
FLOOR PLAN A-1



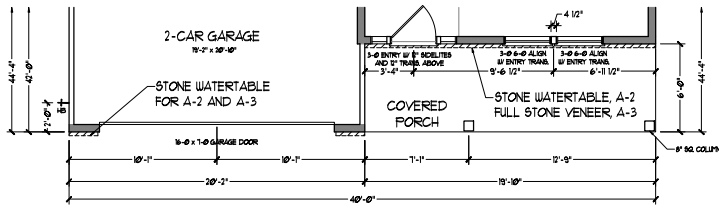
OPTIONAL WRAP AROUND PORCH
(ELEV. A-1)



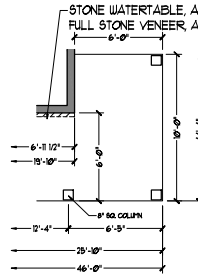
FLOOR PLAN A-2 & A-3
(W/ BRICK)



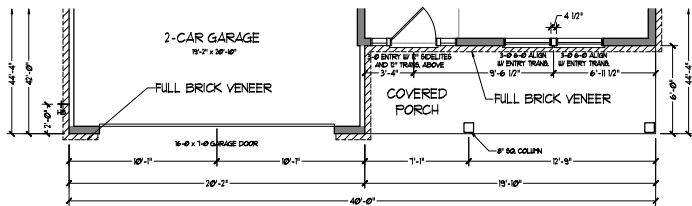
OPTIONAL WRAP AROUND PORCH
(ELEV. A-2 & A-3)



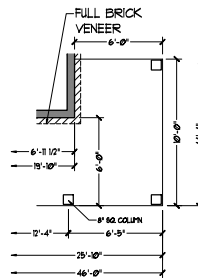
FLOOR PLAN A-2 & A-3
(W/ STONE)



OPTIONAL WRAP AROUND PORCH
(ELEV. A-2 & A-3)



FLOOR PLAN A-4



OPTIONAL WRAP AROUND PORCH
(ELEV. A-4)



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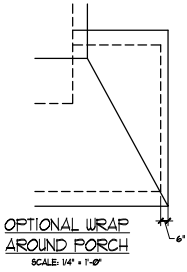
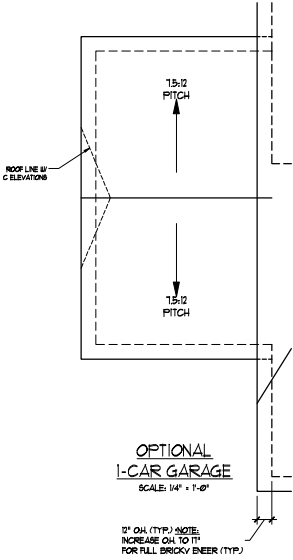
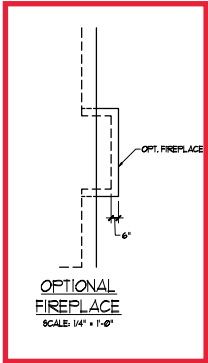
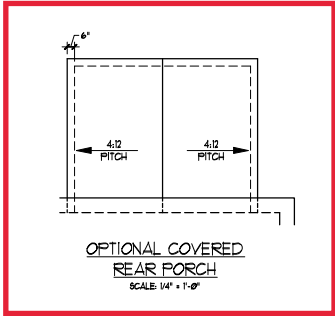
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FIRST FLOOR
PLAN - ELEV A
PARTIAL PLANS

A-6.2

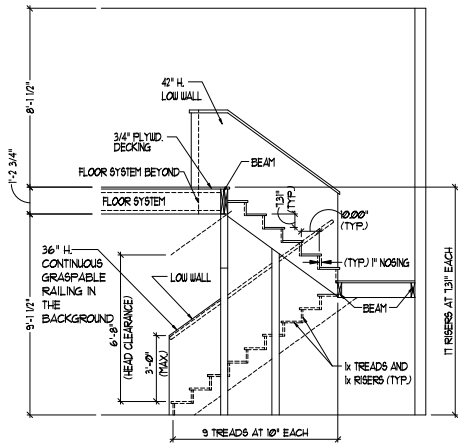


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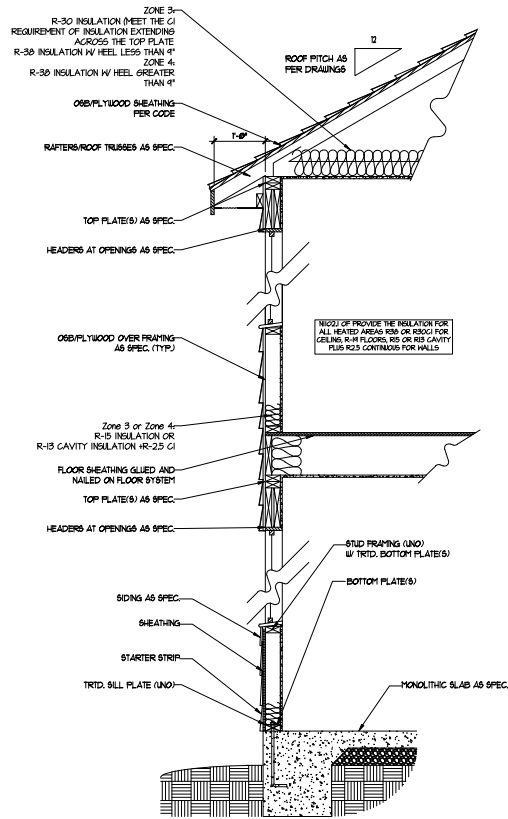
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ROOF PLAN
OPTIONS
A-8.3

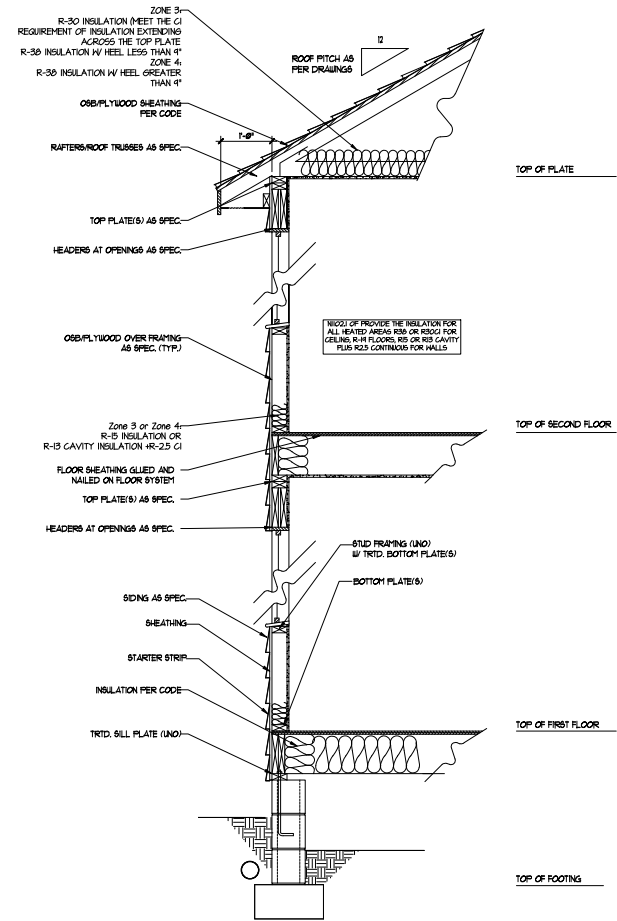


TYPICAL STAIR DETAIL
(NTS)

STAIR NOTES:
 BALUS: BALUSTERS SHALL BE SPACED SO THAT A 4" SPHERE CANNOT PASS THROUGH.
 THE TRIANGULAR OPENINGS FORMED BY THE RISER, TREAD AND BOTTOM RAIL OF A GUARD, AT THE OPEN ENDS OF A STAIRWAY 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 3/8 INCHES TO PASS THROUGH.
 HANDRAILS: HANDRAILS FOR STAIRWAYS SHALL BE CONTINUOUS FOR THE FULL LENGTH OF THE FLIGHT, FROM A POINT DIRECTLY ABOVE THE TOP RISER OF THE FLIGHT, TO A POINT DIRECTLY ABOVE THE LOWEST RISER. HANDRAIL ENDS SHALL BE RETURNED OR SHALL TERMINATE IN VERTICAL PORTS OR SAFETY TERMINALS. HANDRAILS ADJACENT TO A WALL SHALL HAVE A SPACE OF NOT LESS THAN 1/2" INCH BETWEEN THE WALL AND HANDRAIL.
 CONTINUOUS GRASPABLE HANDRAIL MUST MEET TYPE ONE OR TYPE TWO CRITERIA



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



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



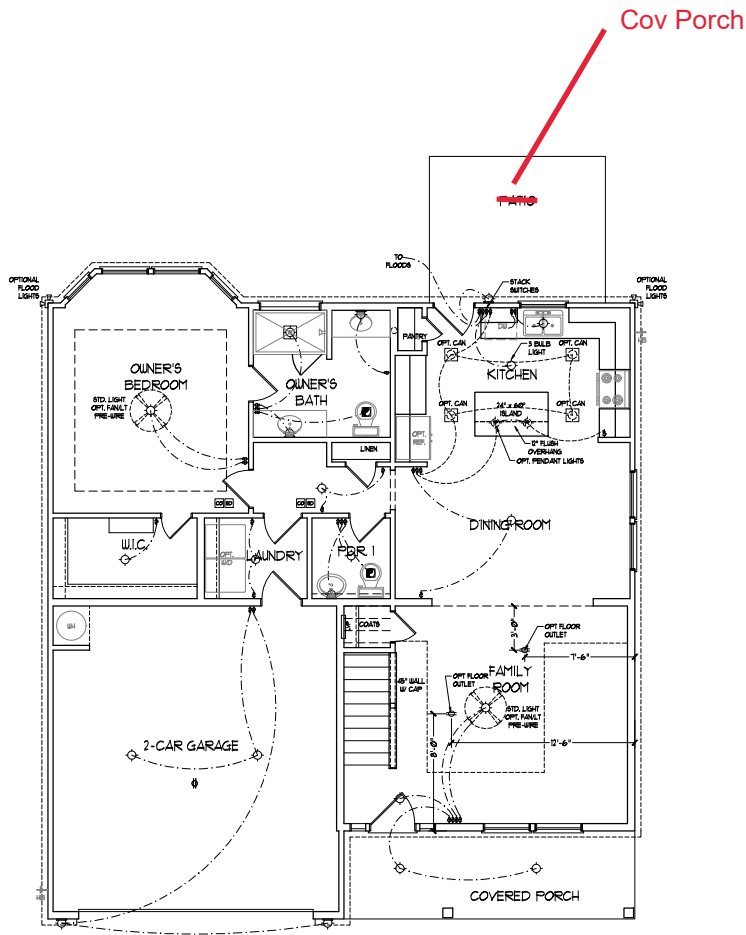
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 REVIEWED BY:

WALL SECTIONS
 AND STAIR
 DETAIL

AD-1



FIRST FLOOR PLAN
(A-1, B-1, AND C-1)

- ELECTRICAL LAYOUT NOTES:**
- 1) BLOCK AND WIRE FOR ALL CEILING FANS PER PLAN.
 - 2) VANITY LIGHTS TO BE SET # 8" BY 4" BY 11" (TYP).
 - 3) ADDITIONAL EXTERIOR OUTLETS REQUIRED BY CODE TO BE LOCATED BY ELECTRICIAN.
 - 4) PLACE SWITCHES # 1" MIN FROM ROUGH OPENING.

ELECTRICAL LEGEND

| | |
|--|------------------------------|
| | 10 V OUTLET |
| | WALL MOUNT LIGHT |
| | CEILING MOUNT LIGHT |
| | PENDANT LIGHT |
| | RECESSED CAN LIGHT |
| | MINI CAN LIGHT |
| | EYEBALL LIGHT |
| | FLUORESCENT LIGHT |
| | 2 LAMP, 4' FLUORESCENT LIGHT |
| | FLOOD LIGHT |
| | SWITCH |
| | 3-WAY SWITCH |
| | 4-WAY SWITCH |
| | DIPPER SWITCH |
| | CONDUIT FOR COMPONENT WIRES |
| | BREAKER |
| | DOORBELL CHIME |
| | 10 V SMOKE DETECTOR |
| | CO DETECTOR |
| | EXHAUST FAN |
| | LOW VOLTAGE PANEL |
| | CEILING FAN |
| | CEILING FAN w/ LIGHT |

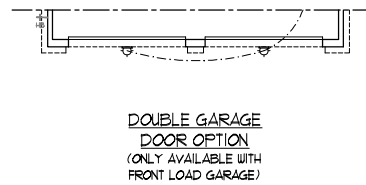
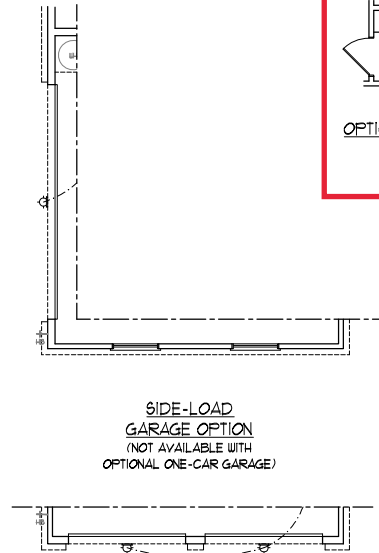
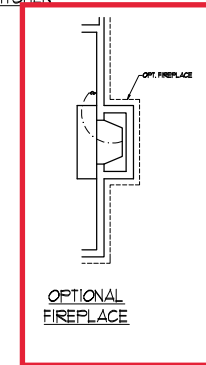
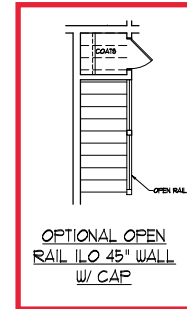
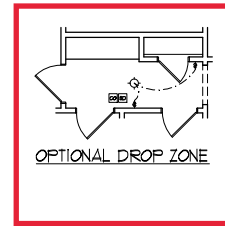
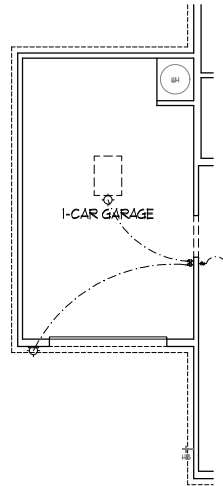
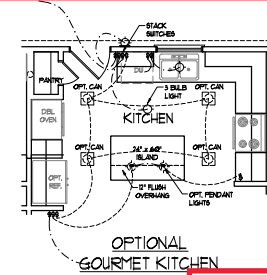
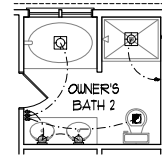
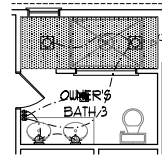
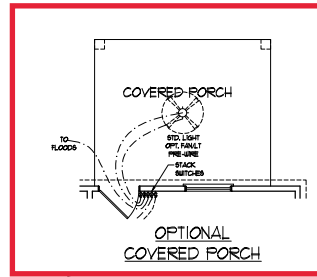
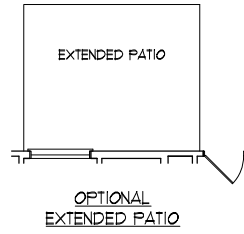

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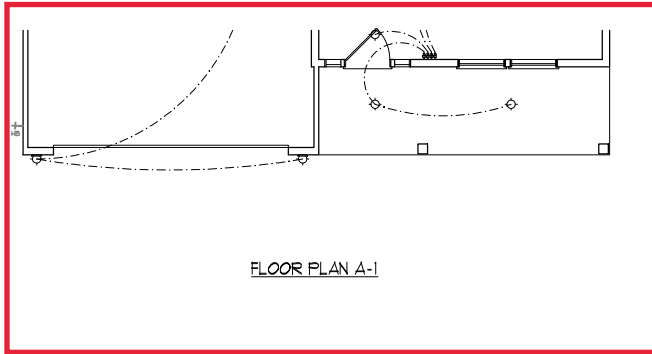
FIRST FLOOR ELECTRICAL PLAN



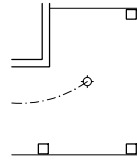
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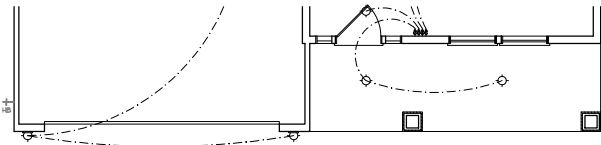
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DRAWN BY: WG
ENGINEERED BY:
REVIEWED BY:
FIRST FLOOR
ELECTRICAL
PLAN



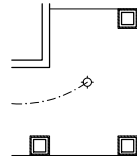
FLOOR PLAN A-1



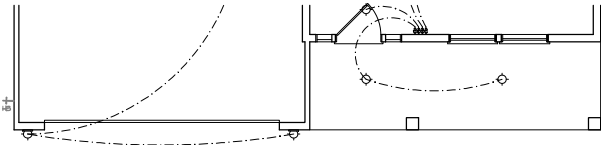
OPTIONAL WRAP AROUND PORCH
(ELEV. A-1)



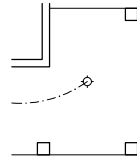
FLOOR PLAN B-1



OPTIONAL WRAP AROUND PORCH
(ELEV. B-1)



FLOOR PLAN C-1



OPTIONAL WRAP AROUND PORCH
(ELEV. C-1)



DREAM FINDERS
HOMES

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KENT

DATE: MARCH 27, 2019

REV: JUNE 01, 2020

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

DRAWN BY: WG

ENGINEERED BY:

REVIEWED BY:

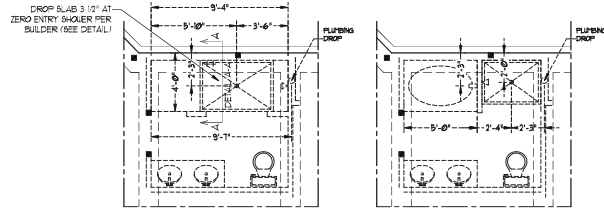
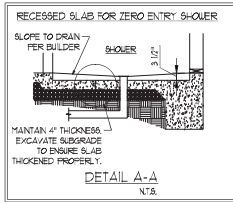
FIRST FLOOR

ELECTRICAL

PLAN - PARTIAL

PLANS

E-1.2

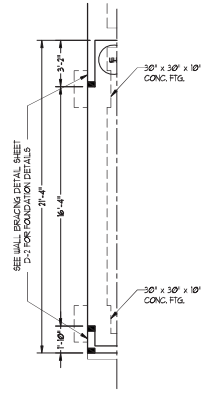


150 MPH ULTIMATE DESIGN WIND SPEED NOTES FOR LESS THAN 30' MEAN ROOF HEIGHT:

- ENGINEERS SEAL APPLIES ONLY TO STRUCTURAL COMPONENTS. ENGINEERS SEAL DOES NOT CERTIFY DIMENSIONAL ACCURACY OR ARCHITECTURAL LAYOUT INCLUDING ROOF SYSTEM.
- STRUCTURAL DESIGN PER NORTH CAROLINA RESIDENTIAL CODE, 2008 EDITION.
- NETALL 1/2" ANCHOR BOLTS 6" O.C. AND SPACING 1/2" FROM END OF EACH CORNER. ANCHOR BOLTS MUST EXTEND A MINIMUM OF 7" INTO MASONRY OR CONCRETE LOGIC. SOLT UPON MIDDLE THIRD OF PLATE WIDTH.
- MEAN ROOF HEIGHT SHALL BE LESS THAN 30 FEET.
- EXTERIOR WALLS DESIGNED FOR 150 MPH WINDS.
- WALL GLAZING DESIGNED FOR -5.0 PSF AND 5.0 PSF (+/-) INDICATE POSITIVE / NEGATIVE PRESSURE (TYP).
- ROOF GLAZING DESIGNED FOR 40.2 PSF AND 4.0 PSF FOR ROOF PITCHES 1/2 TO 2/12 AND 40 PSF AND 5.0 PSF FOR ROOF PITCHES GREATER THAN 2/12.
- NETALL 1/4" ODB SHEATHING ON ALL EXTERIOR WALLS OF ALL STORES IN ACCORDANCE WITH SECTION 1803.0 OF THE N.C. RES. CODE. SEE THE WALL BRACING NOTES AND DETAILS SHEET FOR MORE INFORMATION.
- ENERGY EFFICIENCY COMPLIANCE AND INSULATION VALUES OF THE BUILDING TO BE IN ACCORDANCE WITH CHAPTER 1 OF THE N.C. RES. CODE.
- REFER TO NOTES AND DETAIL SHEETS FOR ADDITIONAL STRUCTURAL INFORMATION.

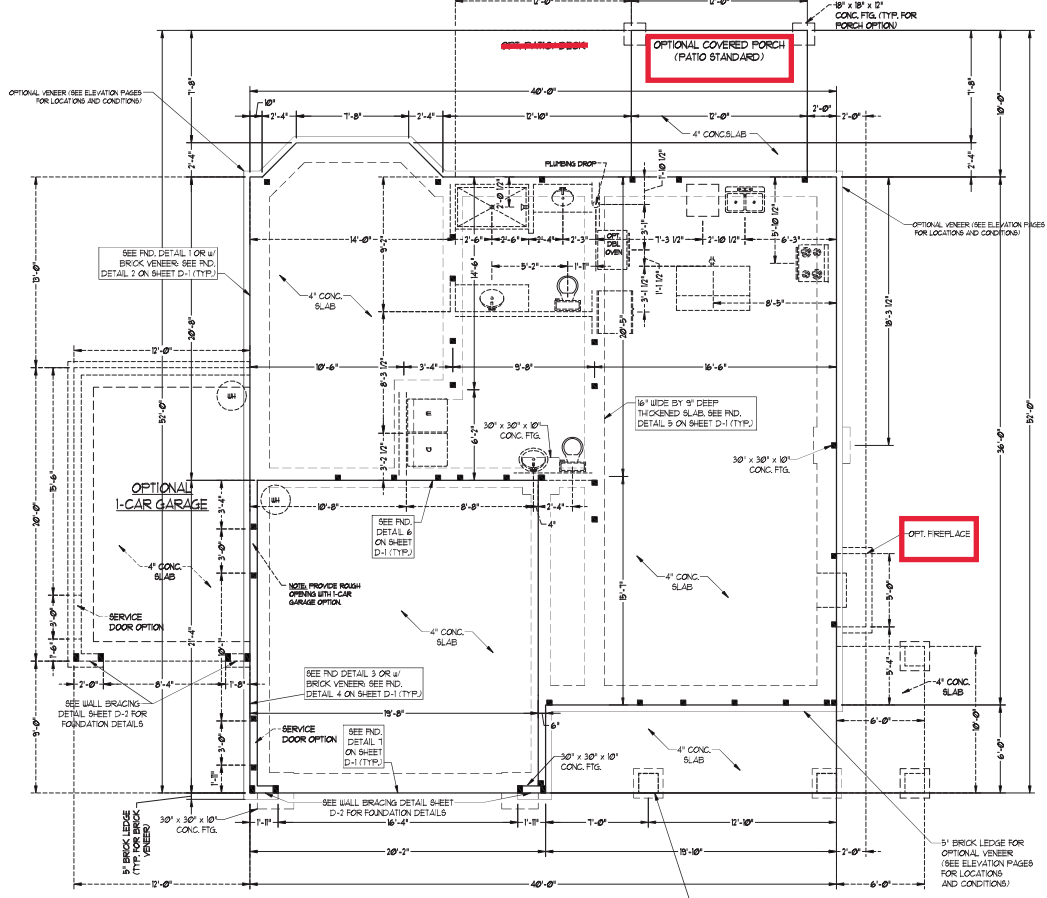
150 MPH ULTIMATE DESIGN WIND SPEED NOTES FOR LESS THAN 30' MEAN ROOF HEIGHT:

- ENGINEERS SEAL APPLIES ONLY TO STRUCTURAL COMPONENTS. ENGINEERS SEAL DOES NOT CERTIFY DIMENSIONAL ACCURACY OR ARCHITECTURAL LAYOUT INCLUDING ROOF SYSTEM.
- STRUCTURAL DESIGN PER NORTH CAROLINA RESIDENTIAL CODE, 2008 EDITION WITH SPECIAL CONSIDERATION TO CHAPTER 8 "HIGH WIND ZONES" FOR 150 MPH WINDS.
- BUILDER IS TO PROVIDE FRAMING CONNECTIONS AS REQUIRED BY CHAPTER 850 "HIGH WIND ZONES" FOR 150 MPH WINDS OF THE NORTH CAROLINA RESIDENTIAL CODE, 2008 EDITION.
- FOUNDATION ANCHORAGE TO COMPLY WITH SECTION 1803.0 OF THE NORTH CAROLINA RESIDENTIAL CODE, 2008 EDITION.
- MEAN ROOF HEIGHT IS LESS THAN 30 FEET.
- WALL GLAZING DESIGNED FOR 40.2 PSF AND 4.0 PSF (+/-) INDICATE POSITIVE / NEGATIVE PRESSURE (TYP).
- ROOF GLAZING DESIGNED FOR 40.2 PSF AND 4.0 PSF FOR ROOF PITCHES 1/2 TO 2/12 AND 40 PSF AND 5.0 PSF FOR ROOF PITCHES GREATER THAN 2/12.
- 1/4" ODB SHEATHING IS REQUIRED ON ALL EXTERIOR WALLS.
- WALLS TO BE BRACED IN ACCORDANCE WITH SECTION 1803.0 OF THE NORTH CAROLINA RESIDENTIAL CODE, 2008 EDITION AND AS NOTED ON PLANS.
- ENERGY EFFICIENCY COMPLIANCE AND INSULATION VALUES OF THE BUILDING TO BE IN ACCORDANCE WITH CHAPTER 1 OF THE N.C. RES. CODE.

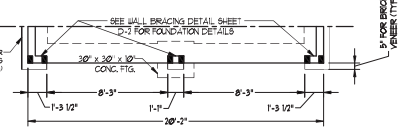


PLUMBING w/ OPTIONAL OWNER'S BATH 3

PLUMBING w/ OPTIONAL OWNER'S BATH 2



DOUBLE GARAGE DOOR OPTION



J.S. THOMPSON ENGINEERING, INC.
 605 W. HARRIS ST. SUITE 100
 PHONE: (919) 789-9919 FAX: (919) 789-9911
 N.C. LICENSE NO. C-113

KENT HSH HOMES, INC.

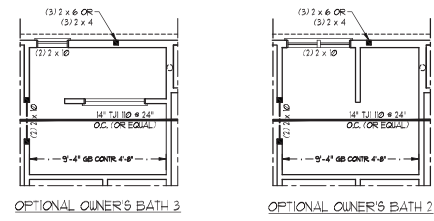
DATE: AUG-21-2020
 SCALE: 1/4" = 1'-0"
 DRAWN BY: HSH HOMES
 ENGINEERED BY: WFB



9/25/2020

BRACED WALL DESIGN NOTES:

- BRACED WALL DESIGN PER SECTION R602.10 OF THE NIRC 2018 EDITION.
- CS-UBP REFERS TO CONTINUOUS SHEATHING + WOOD STRUCTURAL PANELS. CONTRACTOR IS TO INSTALL 1/4" OSB ON ALL EXTERIOR WALLS ATTACHED w/ 8d NAILS SPACED 6" O.C. ALONG PANEL EDGES AND 12" O.C. IN THE FIELD.
- OSB REFERS TO "STRIP BOARD" CONTRACTOR IS TO INSTALL 1/2" (MIN) GYPSUM WALL BOARD WHERE NOTED ON THE PLANS. FASTEN OSB WITH 1/4" SCREWS OR 1 3/8" NAILS SPACED 7" O.C. ALONG PANEL EDGES AND IN THE FIELD INCLUDING TOP AND BOTTOM PLATES.
- BRACED WALL DESIGN APPLIED IN WIND ZONES UP TO 130 MPH. FOR HIGH WIND ZONES, BRACE WALLS ARE TO BE CONSTRUCTED IN ACCORDANCE WITH CHAPTER 45 OF THE NIRC 2018 EDITION. SEE NOTES AND DETAIL SHEETS FOR ADDITIONAL BRACED WALL INFORMATION.



NOTE: ALL EXTERIOR WALLS AND TILT WALLS ARE TO BE 2 x 6 @ 16" O.C. MIN. (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 x 4 @ 16" O.C. (UNO) AND NON-LOAD BEARING INTERIOR WALLS ARE TO BE 2 x 4 @ 24" O.C. (UNO).

BRACED WALL DESIGN

| RECTANGLE A | | RECTANGLE B | |
|-------------------------------|-------------------------------|-------------------------------|-------------------------------|
| SIDE 1A (FRONT LOAD) | SIDE 1B | SIDE 2A | SIDE 2B |
| METHOD: CS-UBP/CS-UBP | METHOD: FP/CS-UBP | METHOD: CS-UBP | METHOD: CS-UBP |
| TOTAL REQUIRED LENGTH: 13.56' | TOTAL REQUIRED LENGTH: 1.88' | TOTAL REQUIRED LENGTH: 1.88' | TOTAL REQUIRED LENGTH: 1.88' |
| TOTAL PROVIDED LENGTH: 20.96' | TOTAL PROVIDED LENGTH: 6' | TOTAL PROVIDED LENGTH: 16.83' | TOTAL PROVIDED LENGTH: 14' |
| SIDE 2A | SIDE 2B | SIDE 3A | SIDE 3B / 4A / 4B |
| METHOD: CS-UBP/CS-UBP | METHOD: CS-UBP | METHOD: CS-UBP/CS-UBP | METHOD: CS-UBP/CS-UBP |
| TOTAL REQUIRED LENGTH: 13.56' | TOTAL REQUIRED LENGTH: 1.88' | TOTAL REQUIRED LENGTH: 14.45' | TOTAL REQUIRED LENGTH: 14.45' |
| TOTAL PROVIDED LENGTH: 23.33' | TOTAL PROVIDED LENGTH: 23.33' | SIDE 4A (SIDE LOAD) | SIDE 4B |
| SIDE 4A (SIDE LOAD) | SIDE 4B | METHOD: CS-UBP/FP | METHOD: CS-UBP/FP |
| METHOD: CS-UBP/FP | METHOD: CS-UBP/FP | TOTAL REQUIRED LENGTH: 13.56' | TOTAL REQUIRED LENGTH: 1.88' |
| TOTAL REQUIRED LENGTH: 24.45' | TOTAL PROVIDED LENGTH: 24.45' | TOTAL PROVIDED LENGTH: 24.45' | TOTAL PROVIDED LENGTH: 24.45' |

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

| HEADER SPAN (FEET) | MINIMUM STUD SPACING (INCHES) (PER TABLE R602.15) | MINIMUM NUMBER OF STUDS |
|--------------------|---|-------------------------|
| UP TO 3' | 16" | 2 |
| 3' TO 4' | 16" | 3 |
| 4' TO 5' | 16" | 4 |
| 5' TO 6' | 16" | 5 |
| 6' TO 7' | 16" | 6 |

LINTEL SCHEDULE FOR BRICK/NATURAL 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 1/2 x 5/16 LLV |
| 8 AND GREATER | L 6 x 4 x 3/16 LLV |

BRICK SUPPORT NOTES:

- LINTEL SCHEDULE APPLIES TO ALL OPENINGS IN BRICK VENEER UNO. SEE ARCH DIMS FOR SIZE AND LOCATION OF OPENINGS.
- 1 1/2" LONG LEG VERTICAL LENGTH + CLEAR OPENING.
- EMBED ALL ANGLE IRONS MIN. 4" EACH SIDE INTO VENEER TO PROVIDE BEARING. FOR ALL HEADERS 8" O.C. AND GREATER IN LENGTH, ATTACH STEEL ANGLE TO HEADERS w/ 1" LAG SCREWS @ 12" O.C. STAGGERED.
- FOR ALL BRICK SUPPORT + ROOF LINES, FASTEN (2) 2 x 10 BLOCKING BETWEEN STUDS w/ (4) 10d NAILS PER PLY. FASTEN 4 @ 4" @ 5/8" STEEL ANGLE TO (2) 2 x 10 BLOCKING w/ (2) 1/2" LAG SCREWS @ 12" O.C. STAGGERED. SEE SECTION R602.821 OF THE 2018 NIRC FOR ADDITIONAL BRICK SUPPORT INFORMATION.
- PRECAST REINFORCED CONCRETE LINTELS ENGINEERED BY OTHERS MAY BE USED IN LIEU OF STEEL LINTELS.

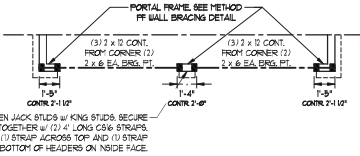
STRUCTURAL NOTES:

- ALL FRAMING LUMBER TO BE SPP #2 (UNO). ALL TREATED LUMBER TO BE SPP #2 (UNO).
- ALL LOAD BEARING HEADERS TO BE (2) 2 x 6 (UNO).
- PROVIDE AN EXTRA JOIST UNDER WALLS PARALLEL TO FLOOR JOISTS WHERE NOTED ON THE PLANS.
- WINDOW AND DOOR HEADERS TO BE SUPPORTED w/ (1) JACK STUD AND (1) KING STUD EA. END (UNO). SEE TABLE R602.15 FOR ADDITIONAL KING STUD REQUIREMENTS.
- SQUARES DENOTE POINT LOADS WHICH REQUIRE SOLID BLOCKING TO GIRDER OR FOUNDATION. ALL SQUARES TO BE (2) STUDS (UNO).
- FOR HIGH WIND ZONES, ALL EXTERIOR WALLS TO BE SHEATHED WITH 1/4" OSB SHEATHING WITH JOINTS BLOCKED AND SECURED WITH 8d NAILS AT 12" O.C. ALONG EDGES AND 6" O.C. IN THE FIELD.
- FOR HIGH WIND ZONES, REQUIRE ALL EXTERIOR WALL SHEATHING PANELS TO DOUBLE TOP PLATES, BANDS, JOISTS, AND GIRDERS WITH (2) ROWS OF 8d NAILS STAGGERED AT 3" O.C. PANELS SHALL EXTEND 12" BEYOND CONSTRUCTION JOINTS AND SHALL OVERLAP GIRDERS AND DOUBLE SILL PLATES THEIR FULL DEPTH.
- ALL 4 x 4 POSTS SHALL BE ANCHORED TO SLABS w/ SIMPSON ABA44 POST BASES (OR EQUAL) AND 8 x 6 POSTS w/ ABA46 POST BASES (OR EQUAL) (UNO). ALL 4 x 4 AND 6 x 6 POSTS TO BE INSTALLED WITH 100 LB CAPACITY LPL FT CONNECTORS AT TOP (UNO).
- FOR FIBERGLASS ALUMINUM OR COLUMN ENDS BY OTHERS, REQUIRE TO SLAB w/ (2) SETBACK ANGLES USING 2" CONC. SCREWS FASTEN ANGLES TO COLUMNS w/ 1/4" THROUGH BOLTS w/ NUTS AND WASHERS. LOCATE ANGLES ON OPPOSITE SIDES OF COLUMNS. THROUGH BOLTS MUST BE INSTALLED PRIOR TO SETTING COLUMN.
- REFER TO NOTES AND DETAIL SHEETS FOR ADDITIONAL STRUCTURAL INFORMATION.

DSP INDICATES DOUBLE STUD POCKET BETWEEN WINDOW UNITS.

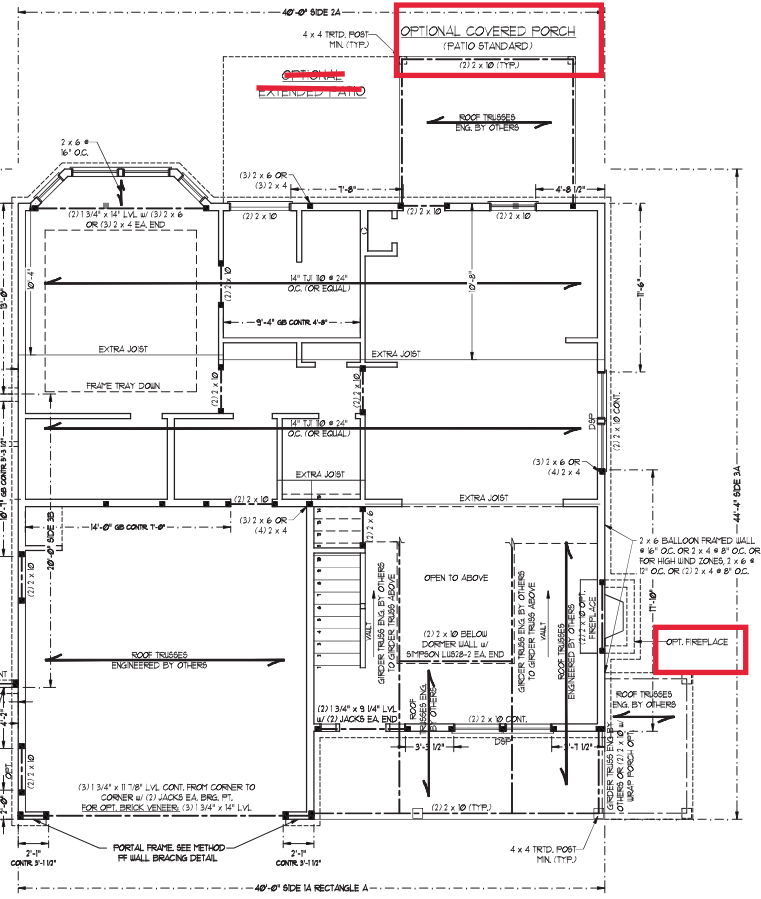


DOUBLE GARAGE DOOR OPTION



FILL BETWEEN JACK STUDS w/ KING STUDS. SECURE HEADERS TOGETHER w/ (2) 4" LONG OSB STRIPS. INSTALL (1) STRIP ACROSS TOP AND (1) STRIP ACROSS BOTTOM OF HEADERS ON INSIDE FACE.

NOTE: ECI 4500N-18 JOISTS MAY BE INSTALLED IN LIEU OF (1) 10 JOISTS AT THE DEPTH AND SPACING INDICATED ON THE PLAN



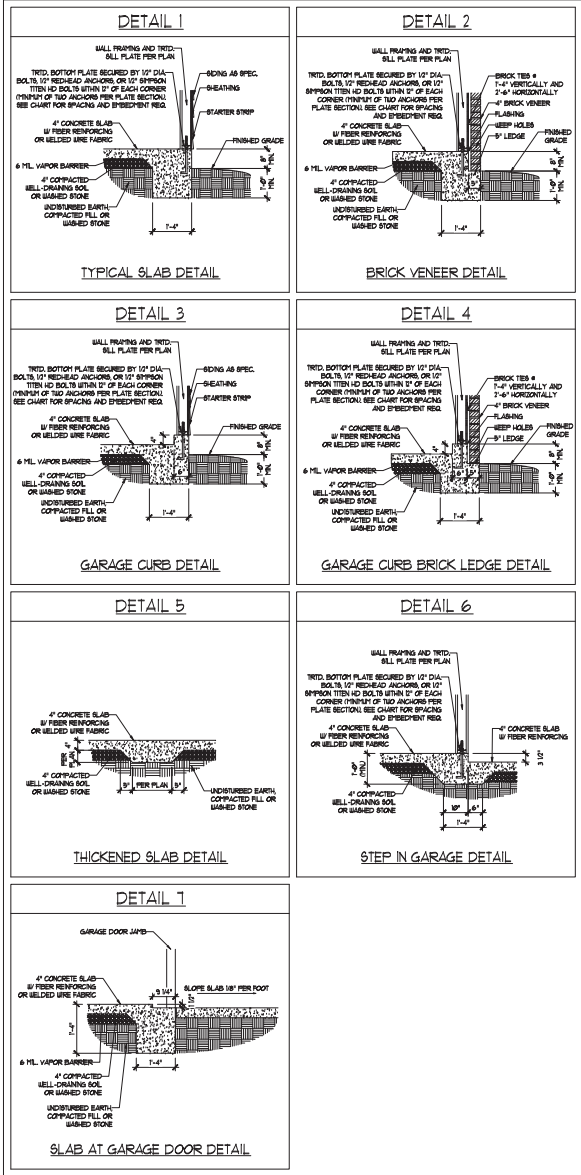
J.S. THOMPSON ENGINEERING, INC.
 605 W. STATE ST. SUITE 200
 RALEIGH, NC 27601
 PHONE: (919) 789-9919 FAX: (919) 789-9911
 N.C. LICENSE NO. C-1731

KENT H&H HOMES, INC.

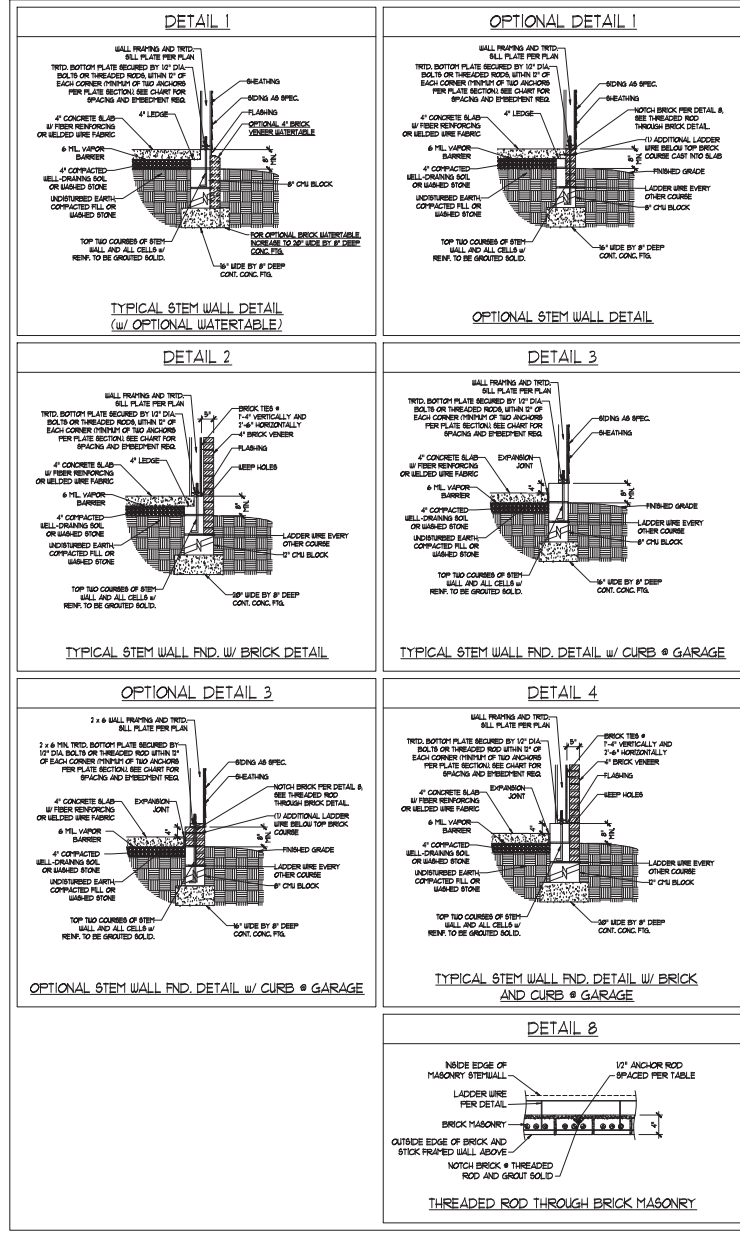
DATE: AUGUST 12, 2020
 SCALE: 1/8" = 1'-0"
 DRAWN BY: HSH/HOMES
 ENGINEERED BY: WB

SHEET 4 OF 8
 S-2 SECOND FLOOR FRAMING PLAN

MONOLITHIC SLAB DETAILS



STEMWALL DETAILS



MASONRY STEMWALL SPECIFICATIONS

| WALL HEIGHT (FEET) | MASONRY WALL TYPE | | | |
|--------------------|--|------------------------------------|------------------------------------|------------------------------------|
| | 8" CMU | 4" BRICK AND 4" CMU | 4" BRICK AND 8" CMU | 12" CMU |
| 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/ #4 REBAR @ 64" O.C. |
| 5 | GROUT SOLID w/ #4 REBAR @ 36" O.C. | NOT APPLICABLE | GROUT SOLID w/ #4 REBAR @ 36" O.C. | GROUT SOLID w/ #4 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/ #4 REBAR @ 64" O.C. |
| 7 AND GREATER | ENGINEERED DESIGN BASED ON SITE CONDITIONS | | | |

- STRUCTURAL NOTES
- WALL HEIGHT MEASURED FROM TOP OF FOOTING TO TOP OF THE WALL.
 - THE MULTIPLE B-TIES TOGETHER WITH LADDER WIRE AT 16" O.C. VERTICALLY. FOUNDATION NOT COMMON TO HOUSE.
 - CHART APPLICABLE FOR HOUSE FOUNDATION ONLY. CONSULT ENGINEER FOR DESIGN OF GARAGE FOUNDATION.
 - BACKFILL OF CLEAN #51 / #01 WASHED STONE IS ALLOWABLE.
 - CLASSIFIED AS GROUP 1 ACCORDING TO UNIFIED SOIL CLASSIFICATION SYSTEM IN ACCORDANCE WITH TABLE (B-20) OF THE 2016 INTERNATIONAL RESIDENTIAL CODE ARE ALLOWABLE.
 - PREP SLAB PER 806.2.1 AND 806.2.2 BASE OF THE 2016 INTERNATIONAL RESIDENTIAL CODE. MINIMUM 2" LAP SPLICE LENGTH.
 - LOCATE REBAR IN CENTER OF FOUNDATION WALL.
 - WHERE REQUIRED, FULL BLOCK SOLID WITH TYPE "N" PORTLAND CEMENT GROUT. USE OF "LOW LIFT GROUTING" METHOD REQUIRED WHEN FILLING WALLS WITH GROUT AT HEIGHTS OF 5' AND GREATER.

ANCHOR SPACING AND EMBEDMENT

| WIND ZONE | ANCHOR SPACING AND EMBEDMENT | |
|-----------|------------------------------|--------------------------------------|
| | 120 MPH | 130 MPH |
| SPACING | 6'-0" O.C. | 4'-0" O.C. |
| EMBEDMENT | 1' | 16" INTO MASONRY 1" INTO CONCRETE |

J.S. THOMPSON ENGINEERING, INC.
 150310.MXD
 04/11/2019 4:05:29 PM
 PHONE: (919) 789-9919 FAX: (919) 789-9911
 N.C. LICENSE NO. C-1731

120 MPH - 130 MPH ULTIMATE DESIGN WIND SPEED
 FOUNDATION DETAILS

DATE: NOVEMBER 14, 2018
 SCALE: MTS
 DRAWN BY: JBT
 ENGINEERED BY: JES

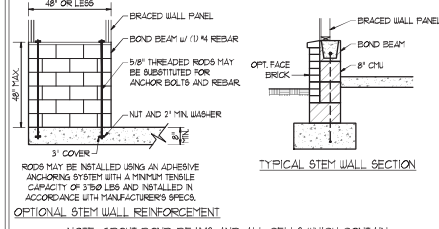
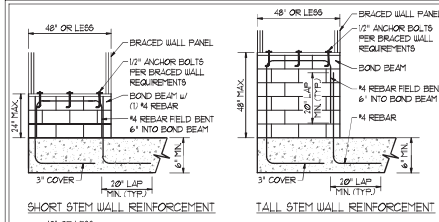
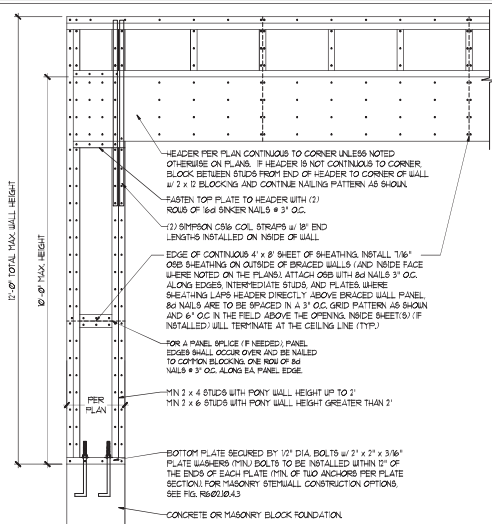


D-1
 FOUNDATION DETAILS

9/25/2020

GENERAL WALL BRACING NOTES:

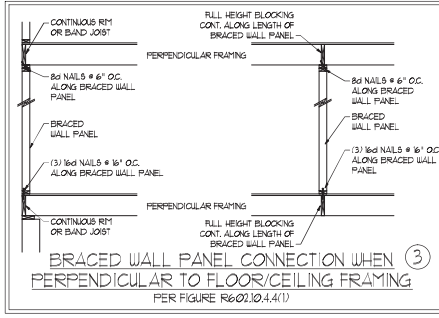
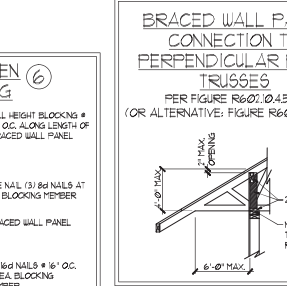
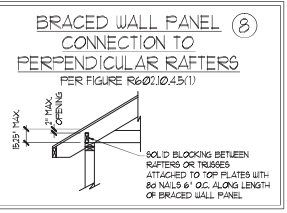
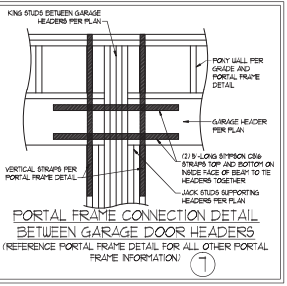
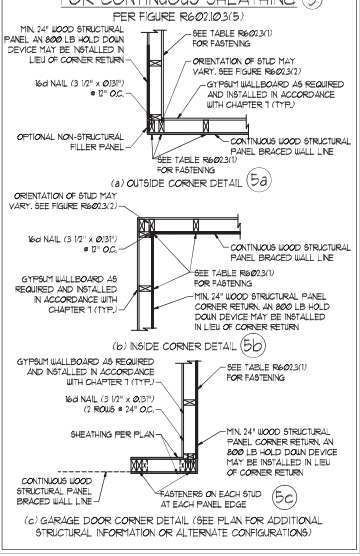
1. WALL BRACING DESIGNED IN ACCORDANCE WITH CHAPTER 6 OF THE 2018 NC RESIDENTIAL BUILDING CODE (NRC). TABLES AND FIGURES REFERENCED ARE FROM THE 2018 NRC.
2. SEE THIS SHEET FOR GENERAL DETAILS. REFER TO THE 2018 NRC FOR ADDITIONAL INFORMATION AS NEEDED.
3. SEE STRUCTURAL SHEETS FOR BRACED WALL DIMENSIONS, HOLD DOWN TIES AND LOCATIONS. BRACED WALL LINE KEY TIE WALL DESIGN SUMMARY OF REQUIRED PROVIDED TOTALS FOR EACH WALL LINE AND ANY SPECIAL NOTES OR REQUIREMENTS.
4. ALL EXTERIOR WALLS ARE TO BE SHEATHED WITH CS-48P IN ACCORDANCE WITH SECTION R602.10.3 UNLESS NOTED OTHERWISE.
5. ALL EXTERIOR AND INTERIOR WALLS TO HAVE 1/2" GYPSUM INSTALLED, WHEN NOT USING METHOD 'GB'. GYPSUM TO BE FASTENED PER TABLE R602.3. METHOD GB TO BE FASTENED PER TABLE R602.10.
6. CS-48P REFERS TO THE 'CONTINUOUS SHEATHING - WOOD STRUCTURAL PANELS' WALL BRACING METHOD. 1/8" OSB SHEATHING IS TO BE INSTALLED ON ALL EXTERIOR WALLS ATTACHED W/ 8d COMMON NAILS OR 8d 12" LONG x 8D18 DIAPHRAGM WALL BRACING 6" O.C. ALONG PANEL EDGES AND 21" O.C. IN THE FIELD (UNO).
7. GB REFERS TO THE 'GYPSUM BOARD' WALL BRACING METHOD. 1/2" (MIN) GYPSUM WALL BOARD IS TO BE INSTALLED ON BOTH SIDES OF THE BRACED WALL, FASTENED WITH 1 1/4" SCREWS OR 1 3/8" NAILS SPACED 12" O.C. ALONG PANEL EDGES INCLUDING TOP AND BOTTOM PLATES AND INTERMEDIATE SUPPORTS (UNO). VERIFY ALL FASTENER OPTIONS FOR 1/2" AND 5/8" GYPSUM PRIOR TO CONSTRUCTION. FOR INTERIOR FASTENER OPTIONS SEE TABLE R702.3.3. FOR EXTERIOR FASTENER OPTIONS SEE TABLE R602.3.1. EXTERIOR GB TO BE INSTALLED VERTICALLY.
8. REQUIRED BRACED WALL LENGTH FOR EACH SIDE OF THE CIRCUMSCRIBED RECTANGLE ARE INTERPOLATED PER TABLE R602.10.3. METHOD CS-48P CONTRIBUTES ITS ACTUAL LENGTH, METHOD GB CONTRIBUTES ITS ACTUAL LENGTH, AND METHOD FF CONTRIBUTES ITS TIES ITS ACTUAL LENGTH.



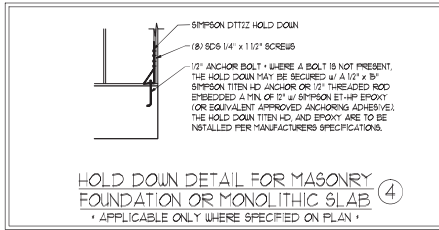
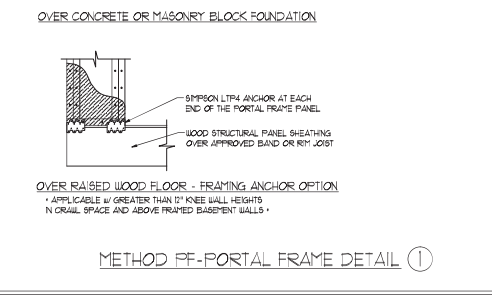
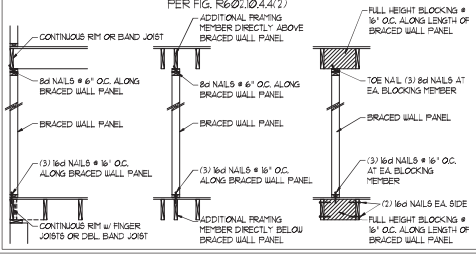
MASONRY STEM WALLS SUPPORTING BRACED WALL PANELS
PER FIGURE R602.10.4.3

NOTE: GROUT BOND BEAMS AND ALL CELLS WHICH CONTAIN REBAR THREADED RODS AND ANCHOR BOLTS

TYPICAL EXTERIOR CORNER FRAMING FOR CONTINUOUS SHEATHING



BRACED WALL PANEL CONNECTION WHEN PARALLEL TO FLOOR/CEILING FRAMING



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1000 W. HARRIS BLVD., SUITE 100
RANDOLPH, NC 28134
PHONE: (919) 789-9919 FAX: (919) 789-9921
N.C. LICENSE NO. C-173

120 MPH - 130 MPH ULTIMATE DESIGN WIND SPEED
WALL BRACING NOTES AND DETAILS

DATE: NOVEMBER 14, 2018
SCALE: 1/8" = 1'-0"
DRAWN BY: JST
ENGINEERED BY: JST



D-2 BRACED WALL NOTES AND DETAILS AND FF DETAIL

9/25/2020

GENERAL NOTES

- ENGINEER'S SEAL APPLIES ONLY TO STRUCTURAL COMPONENTS INCLUDING ROOF RAFTERS, HIPs, VALLEYS, RIDGES, FLOORS, WALLS, BEAMS, HEADERS, COLLARS, CANTILEVERS, OFFSET LOAD BEARING WALLS, PIERS, GIRDER SYSTEM AND FOOTING. ENGINEER'S SEAL DOES NOT CERTIFY DIMENSIONAL ACCURACY OF ARCHITECTURAL LAYOUT INCLUDING ROOF. ENGINEER'S SEAL DOES NOT APPLY TO JOIST OR FLOOR/ROOF TRUSS LAYOUT DESIGN AND ACCURACY.
 - ALL CONSTRUCTION SHALL CONFORM TO THE LATEST REQUIREMENTS OF THE NORTH CAROLINA RESIDENTIAL CODE (NRC), 2018 EDITION, PLUS ALL LOCAL CODES AND REGULATIONS. THE STRUCTURAL ENGINEER IS NOT RESPONSIBLE FOR AND WILL NOT HAVE CONTROL OF CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES OR SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE CONSTRUCTION WORK. NOR WILL THE ENGINEER BE RESPONSIBLE FOR THE CONTRACTOR'S FAILURE TO CARRY OUT THE CONSTRUCTION WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
 - STRUCTURAL DESIGN BASED ON THE PROVISIONS OF THE NRC, 2018 EDITION (R602.4 - R602.1)
- | DESIGN CRITERIA | LIVE LOAD (PSF) | DEAD LOAD (PSF) | DEFLECTION (IN) |
|--------------------------------|---|-----------------|-----------------------------------|
| ATTIC WITH LIMITED STORAGE | 20 | 10 | L/240 (L/360 w/ BRITTLE FINISHES) |
| ATTIC WITHOUT STORAGE | 10 | 10 | L/360 |
| DECKS | 40 | 10 | L/360 |
| EXTERIOR BALCONIES | 40 | 10 | L/360 |
| FIRE ESCAPES | 40 | 10 | L/360 |
| HANDRAILS/GUARDRAILS | 100 LB OR 50 (PLF) | 10 | L/360 |
| PASSENGER VEHICLE GARAGE | 50 | 10 | L/360 |
| ROOMS OTHER THAN SLEEPING ROOM | 40 | 10 | L/360 |
| SLEEPING ROOMS | 30 | 10 | L/360 |
| STAIRS | 40 | 10 | L/360 |
| WIND LOAD | (BASED ON TABLE R602.4(4) WIND ZONE AND EXPOSURE) | | |
| GROUND SNOW LOAD, Pg | 20 (PSF) | | |
- 1-JOIST SYSTEMS DESIGNED WITH 12 PSF DEAD LOAD AND DEFLECTION (IN) OF L/480
 - FLOOR TRUSS SYSTEMS DESIGNED WITH 8 PSF DEAD LOAD
- FOR 15 AND 20 MPH WIND ZONES, FOUNDATION ANCHORAGE IS TO COMPLY WITH SECTION R602.6 OF THE NRC, 2018 EDITION. FOR 30 MPH, 40 MPH, AND 50 MPH WIND ZONES, FOUNDATION ANCHORAGE IS TO COMPLY WITH SECTION 4504 OF THE NRC, 2018 EDITION.
 - ENERGY EFFICIENCY COMPLIANCE AND INSULATION VALUES OF THE BUILDING TO BE IN ACCORDANCE WITH CHAPTER 1 OF THE NRC, 2018 EDITION.

FOOTING AND FOUNDATION NOTES

- FOUNDATION DESIGN BASED ON A MINIMUM ALLOWABLE BEARING CAPACITY OF 3000 PSF. CONTACT GEOTECHNICAL ENGINEER IF BEARING CAPACITY IS NOT ACHIEVED.
- FOR ALL CONCRETE SLABS AND FOOTINGS, THE AREA WITHIN THE PERIMETER OF THE BUILDING ENVELOPE SHALL HAVE ALL VEGETATION, TOP SOIL AND FOREIGN MATERIAL REMOVED. FILL MATERIAL SHALL BE FREE OF VEGETATION AND FOREIGN MATERIAL. THE FILL SHALL BE COMPACTED TO ASSURE UNIFORM SUPPORT OF THE SLAB, AND EXCEPT WHERE APPROVED, THE FILL DEPTHS SHALL NOT EXCEED 24" FOR CLEAN SAND OR GRAVEL. A 4" THICK BASE COURSE CONSISTING OF CLEAN GRADED SAND OR GRAVEL SHALL BE PLACED. A BASE COURSE IS NOT REQUIRED WHERE A CONCRETE SLAB IS INSTALLED ON WELL-DRAINED OR SAND-GRAVEL MIXTURE SOILS CLASSIFIED AS GROUP 1, ACCORDING TO THE UNITED SOIL CLASSIFICATION SYSTEM IN ACCORDANCE WITH TABLE R602.1 OF THE NRC, 2018 EDITION.
- PROPERLY DEWATER EXCAVATION PRIOR TO POURING CONCRETE WHEN BOTTOM OF CONCRETE SLAB IS AT OR BELOW WATER TABLE. IF APPLICABLE 3/4" - 1" DEEP CONTROL JOINTS ARE TO BE SALED WITHIN 4 TO 12 HOURS OF CONCRETE FINISHING AND WALL LOCATIONS HAVE BEEN MARKED. JOINTS WHERE NECESSARY.
- CONCRETE SHALL CONFORM TO SECTION R602.1 OF THE NRC, 2018 EDITION. CONCRETE REINFORCING STEEL TO BE ASTM A63 GRADE 60 WELDED WIRE FABRIC TO BE ASTM A955. MAINTAIN A MINIMUM CONCRETE COVER AROUND REINFORCING STEEL OF 3" IN FOOTINGS AND 1 1/2" IN SLABS. FOR POURED CONCRETE WALLS, CONCRETE COVER FOR REINFORCING STEEL MEASURED FROM THE INSIDE FACE OF THE WALL SHALL NOT BE LESS THAN 3/4". CONCRETE COVER FOR REINFORCING STEEL MEASURED FROM THE OUTSIDE FACE OF THE WALL SHALL NOT BE LESS THAN 1 1/2" FOR #5 BARS OR #4 WALLER, AND NOT LESS THAN 1" FOR #6 BARS OR LARGER.
- MASONRY UNITS TO CONFORM TO ACE 530/ASCE 5/11MS 402. MORTAR SHALL CONFORM TO ASTM C270.
- THE UNSUPPORTED HEIGHT OF MASONRY PIERS SHALL NOT EXCEED FOUR TIMES THEIR LEAST DIMENSION FOR UNFILLED HOLLOW CONCRETE MASONRY UNITS AND TEN TIMES THEIR LEAST DIMENSION FOR SOLID OR FILL HOLLOW PIERS. PIERS MAY BE FILLED SOLID WITH CONCRETE OR TYPE II OR S MORTAR. PIERS AND WALLS SHALL BE CAPPED WITH #4 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.
- ALL CONCRETE AND MASONRY FOUNDATION WALLS ARE TO BE CONSTRUCTED IN ACCORDANCE WITH THE PROVISIONS OF SECTION R604 OF THE NRC, 2018 EDITION, OR IN ACCORDANCE WITH ACE 318, ACE 335, NORTH 1988-4 OR ACE 530/ASCE 5/11MS 402. MASONRY FOUNDATION WALLS ARE TO BE REINFORCED PER TABLE R604.1(1), R604.1(2), R604.1(3), OR R604.1(4) OF THE NRC, 2018 EDITION. CONCRETE FOUNDATION WALLS ARE TO BE REINFORCED PER TABLE R604.1(5) OF THE NRC, 2018 EDITION. STEEL CONCRETE FOUNDATION WALLS TO 2 x 6 FRAMED WALLS AT 6" OC, WHERE GRADE PERMITS (UNO).

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FRAMING NOTES

- ALL FRAMING LUMBER SHALL BE #2 SFF MINIMUM (F_b = 875 PSI, F_v = 375 PSI, E = 1600000 PSI) UNLESS NOTED OTHERWISE (UNO). ALL TREATED LUMBER SHALL BE #2 SFF MINIMUM (F_b = 975 PSI, F_v = 475 PSI, E = 1600000 PSI) UNLESS NOTED OTHERWISE (UNO).
- LAMINATED VENEER LUMBER (LVL) SHALL HAVE THE FOLLOWING MINIMUM PROPERTIES: F_b = 2600 PSI, F_v = 285 PSI, E = 1900000 PSI. LAMINATED STRAND LUMBER (LSL) SHALL HAVE THE FOLLOWING MINIMUM PROPERTIES: F_b = 2325 PSI, F_v = 330 PSI, E = 1900000 PSI. PARALLEL STRAND LUMBER (PSL) UP TO 1" DEPTH SHALL HAVE THE FOLLOWING MINIMUM PROPERTIES: F_c = 2600 PSI, E = 1900000 PSI. PARALLEL STRAND LUMBER (PSL) MORE THAN 1" DEPTH SHALL HAVE THE FOLLOWING MINIMUM PROPERTIES: F_c = 2300 PSI, E = 1900000 PSI. INSTALL ALL CONNECTIONS PER MANUFACTURER'S SPECIFICATIONS.
- STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING ASTM SPECIFICATIONS:
 - A. W AND WT SHAPES: ASTM A992
 - B. CHANNELS AND ANGLES: ASTM A36
 - C. PLATES AND BARS: ASTM A36
 - D. HOLLOW STRUCTURAL SECTIONS: ASTM A500 GRADE B
 - E. STEEL PIPE: ASTM A53, GRADE B, TYPE E OR S
- STEEL BEAMS SHALL BE SUPPORTED AT EACH END WITH A MINIMUM BEARING LENGTH OF 3 1/2" AND FULL FLANGE WIDTH (UNO). PROVIDE SOLID BEARING FROM BEAM SUPPORT TO FOUNDATION. BEAMS SHALL BE ATTACHED AT THE BOTTOM FLANGE TO EACH SUPPORT AS FOLLOWS (UNO):
 - A. WOOD FRAMING (2) 1/2" DIA. x 4" LONG LAG SCREWS
 - B. CONCRETE (2) 1/2" DIA. x 4" WEDGE ANCHORS
 - C. MASONRY (FULLY GROUTED) (2) 1/2" DIA. x 4" LONG SIMPSON TITEN HD ANCHORS
 LATERAL SUPPORT IS CONSIDERED ADEQUATE PROVIDING THE JOISTS ARE TOE NAILED TO THE 2x NAILER ON TOP OF THE STEEL BEAM AND THE 2x NAILER IS SECURED TO THE TOP OF THE STEEL BEAM w/ (2) ROUS OF SELF TAPPING SCREWS # 16" OC, OR (2) ROUS OF 1/2" DIAMETER BOLTS # 1/4" OC. F 1/2" BOLTS ARE USED TO FASTEN THE NAILER. THE STEEL BEAM SHALL BE FABRICATED w/ (2) ROUS OF 3/16" DIAMETER HOLES # 1/4" OC.
- 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.
- ALL LOAD BEARING HEADERS TO CONFORM TO TABLE R602.1(1) AND R602.1(2) OF THE NRC, 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 R602.3 OF THE NORTH CAROLINA RESIDENTIAL CODE, 2018 EDITION.
- ALL BEAM'S HEADERS OR GIRDER TRUSSES PARALLEL TO WALL ARE TO BEAR FULLY ON (1) JACK OR (2) STUDS MINIMUM OR THE NUMBER OF JACKS OR STUDS NOTED. ALL BEAM'S OR GIRDER TRUSSES PERPENDICULAR TO WALL AND SUPPORTED BY (3) STUDS OR LESS ARE TO HAVE 1 1/2" MINIMUM BEARING (UNO). ALL BEAM'S OR GIRDER TRUSSES PERPENDICULAR TO WALL AND SUPPORTED BY MORE THAN (3) STUDS OR OTHER NOTED COLUMN ARE TO BEAR FULLY ON SUPPORT COLUMN FOR ENTIRE WALL DEPTH (UNO). BEAM ENDS THAT BUTT INTO ONE ANOTHER ARE TO EACH BEAR EQUAL LENGTHS (UNO).
- FLITCH BEAMS SHALL BE BOLTED TOGETHER USING 1/2" DIAMETER BOLTS (ASTM A307) WITH WASHERS PLACED AT THREADED END OF BOLT. BOLTS SHALL BE BRACED AT 24" CENTERS (MAXIMUM) AND STAGGERED AT TOP AND BOTTOM OF BEAM (2" EDGE DISTANCE) WITH (2) BOLTS LOCATED AT 6" FROM EACH END (UNO).
- ALL 1-JOIST OR TRUSS LAYOUTS ARE TO BE IN COMPLIANCE WITH THE OVERALL DESIGN SPECIFIED ON THE PLANS. ALL DEVIATIONS ARE TO BE BROUGHT TO THE ATTENTION OF THE ENGINEER OF RECORD PRIOR TO INSTALLATION.
- BRACED WALL PANELS SHALL BE CONSTRUCTED ACCORDING TO THE NORTH CAROLINA RESIDENTIAL CODE 2018 EDITION WALL BRACING CRITERIA. THE AMOUNT, LENGTH, AND LOCATION OF BRACINGS SHALL COMPLY WITH ALL APPLICABLE TABLES IN SECTION R602.8.
- 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.
- FOR ALL HEADERS SUPPORTING BRICK VENEER THAT ARE LESS THAN 8'-0" IN LENGTH REST A 6" x 4" x 5/16" STEEL ANGLE WITH 6" MINIMUM OVERHANG 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 HEADERS WITH 1/2" LAG SCREWS AT 2' 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) 16d NAILS EA. PL. BETWEEN WALL STUDS WITH (2) ROUS OF 1/2" LAG SCREWS AT 2' OC. STAGGERED AND IN ACCORDANCE WITH SECTION R702.8(2) OF THE NRC, 2018 EDITION.
- 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 16d NAILS AT 16" OC. FRAME DORMER WALLS ON TOP OF DOUBLE OR TRIPLE RAFTERS AS SHOWN (UNO).
- FOR TRUSSED ROOFS, FRAME DORMER WALLS ON TOP OF 2 x 4 LADDER FRAMING AT 24" OC. BETWEEN ADJACENT ROOF TRUSSES. STICK FRAME OVER-FRAMED ROOF SECTIONS WITH 2 x 8 RIDGES, 2 x 6 RAFTERS AT 16" OC. AND PLAT 2 x 10 VALLEYS (UNO).
- 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 H6 OR L197 UPLIFT CONNECTOR FASTENED TO THE BAND AT THE BOTTOM AND THE BEAM AT THE TOP OF EACH POST. ONE 16" SECTION OF SIMPSON CS66 COLL STRAPPING WITH (8) 8d HDG NAILS AT EACH END MAY BE USED IN LIEU OF EACH TIGHT STRAP IF DESIRED. FOR MASONRY OR CONCRETE FOUNDATION USE SIMPSON POST BASE.



9/25/2020



120 MPH - 1-30 MPH ULTIMATE DESIGN WIND SPEED
STANDARD STRUCTURAL NOTES

DATE: NOVEMBER 14, 2018
SCALE: 1/8" = 1'-0"
DRAWN BY: JES
ENGINEERED BY: JST

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STRUCTURAL
NOTES