

PLAN REVISIONS:

- 6/15/23**
- ELIMINATED FIRST FLOOR TO SECOND FLOOR ROOF CONDITION TO REMOVE CEILING BEAMS AND UPLIFT ISSUES FOR HIGH MM
 - SLIGHTLY REDESIGNED KITCHEN SO THAT PANTRY AREA IS IMPROVED AND TO MAKE FOR A NICER GOURMET OPTION WHEN CHOSEN
 - RELOCATED STAIRS TO ACCOMODATE FOR A DEEPER GREAT ROOM SO THAT THE BAR AREA DID NOT ENCRONCH THE FURNITURE PLACENT
 - REDESIGNED MASTER BEDROOM, MASTER BATH, LAUNDRY AND MUD TO ACCOMODATE NEW STAIR LOCATION
 - MADE FIREPLACE AN INSIDE FOOTPRINT OPTION
 - ADDED 2 TO REAR OF HOUSE
 - REMOVED ALL SPACE OVER GARAGE TO ELIMINATE EWP OVER GARAGE AREA
 - SHIFTED SECOND FLOOR TO REAR WALL SO THAT ENTIRE SECOND FLOOR STACKS WITH FIRST FLOOR
 - MADE OVERLOOK AREA FROM LOFT A FULL 2-STORY TO SIMPLIFY TRUSS DESIGN AND MAKE AN OPPORTUNITY FOR A REC ROOM OPTION
- 7/31/23**
- ADDED B AND C ELEVATIONS
 - 8/16/23**
 - MADE OPEN TO BELOW GREAT ROOM WALLS 2X6 BALLOON FRAMING

- 10/2/23**
- CHANGE PANTRY CAB TO FRAMED REACH-IN PANTRY
 - SHOWER PANS AND TUBS IN INCHES
 - REMOVE SEAT IN SHOWER
 - MAKE 36X60 WITH 3010 AND PACK OUT EACH SIDE EVENLY AND MAKE VANITY 66" FOR SHOWER ONLY BATH, LEAVE OPTIONAL BATH AS IS
 - CHANGE 6X6 CS BATH UPGRADE TO P BATH NOT Q BATH
 - POWDER WALL PLUMB AND 2X6 AT BENCH AND AT TOILETM BED WALL
 - OPTIONAL 3050 IN DINING CENTERED ON LEFT WALL
 - 32" WALL IN GARAGE AT WATER HEATER WITH DEDICATED OUTLET
 - BED 5 OPTION EDITED TO INCLUDE BATH WITHIN OPTION
 - CHANGE EXTRA BEDROOM ENTRY DOORS TO 26"
 - CHASE ADDED TO BED 2

- 12/11/23**
- MODIFIED P BATH STANDARD SLIGHTLY TO ALLOW FOR SHOWER UNIT ILO TILE SURROUND SHOWER
 - ADDED OPTIONAL PATIO
 - CHANGED ROOM NAMES TO NEW DREAMFINDERS STANDARDS

- 1/5/23**
- MADE ALL MULLED WINDOWS INTO 2 SINGLE WINDOWS WITH STUD POCKETS
 - ADDED COFFER OPTION TO DINING
 - ADDED PLUMB DROP DIMENSION TO MONO AND STEM WALL SLAB
 - ROTATE WATER HEATER AND WING WALL
 - ADD PULL DOWN STAIR LOCATION
 - MAKE COVERED PORCH OPTION COME WITH OVERHEAD LIGHT ILO WALL LIGHT
 - ADD CAN TO KITCHEN AND REARRANGE
 - ADJUST OUTLETS IN PRIMARY BATHS
 - ADD CAN OPTION TO SINGLE STORY GREAT ROOM
 - MAKE PENDANTS OPTIONAL IN KITCHEN
 - CENTER LIGHT OVER STAIR FOR BETTER STAIRWELL LIGHTING

- 6/27/24**
- SHIFT SHOWER IN PRIMARY STANDARD AND TUB IN PRIMARY UPGRADE TO ALLOW MORE ROOM TO ENTER THE AREA
 - OPT FAN ROUGH-INS IN BEDROOMS
 - ADD OPT DOOR FROM MPT TO LAUNDRY
 - ADDED 30 PERCENT BRICK ELEVATIONS ABC

- 10/7/24**
- ADDED OPTIONAL BRICK/STONE WAHSCOTING TO ELEV A
 - OPT STONE/BRICK NOTES ON ELEV B
 - STONE OR BRICK NOTES ON ELEV C

COLLEX488INVENTORYMARKEDPLAN

Heated SQFT Elev. A

| Description | Area |
|-------------------|---------|
| 1st Floor Livable | 1426 SF |
| 2nd Floor Livable | 1087 SF |
| Gross Heated SF | 2513 SF |

Heated SQFT W Recroom A

| Description | Area |
|-------------------|---------|
| 1st Floor Livable | 1426 SF |
| 2nd Floor Livable | 1386 SF |
| Gross Heated SF | 2812 SF |

Heated SQFT Elev. B/C

| Description | Area |
|-------------------|---------|
| 1st Floor Livable | 1426 SF |
| Front Porch | 93 SF |
| 2nd Floor Livable | 1098 SF |
| Gross Heated SF | 2524 SF |

Unheated SQFT

| Description | Area |
|------------------|--------|
| Garage | 418 SF |
| Opt. Cov'd Porch | 120 SF |



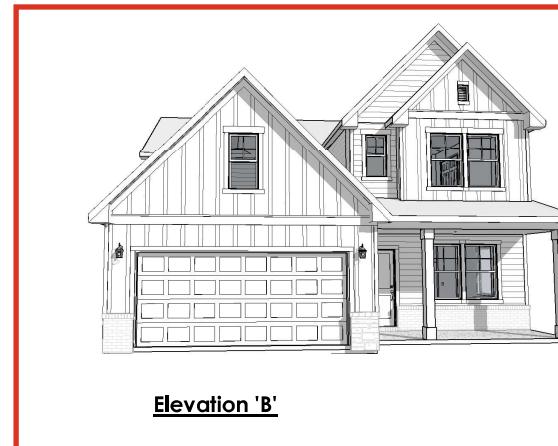
Elevation 'A'

A/B MEAN ROOF HGT = 22'-4"
C MEAN ROOF HGT = 21'-11"

ENERGY COMPLIANCE MINIMUMS
MAX GLAZING U-FACTOR = 0.35
WALL R-VALUE = 15
CEILING R-VALUE = 38
FLOOR R-VALUE = 19



Elevation 'C'



Elevation 'B'

PLANSOURCE
DESIGNS
Where design meets innovation

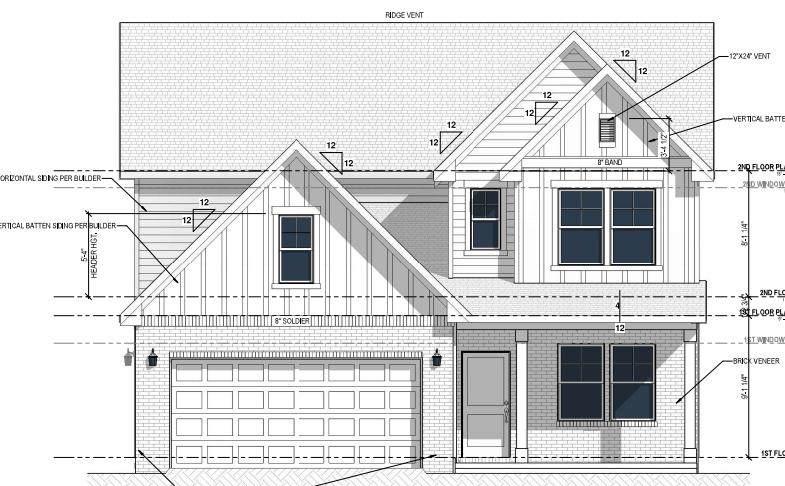
Bellwood Carolinas 3654 - LH
Dream Finders Homes
Cover Sheet

Date: 10/7/24
Drawn By: rdc
Checked By: sgm

Dream Finders Homes
0-CS

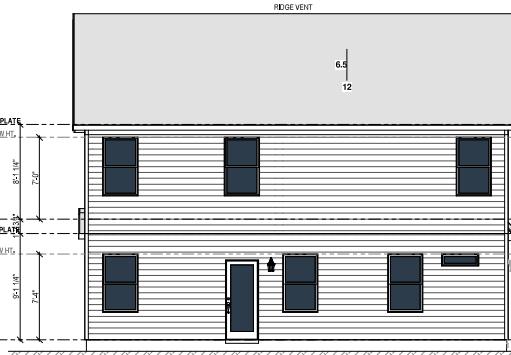
30 PERCENT BRICK

ELEVATION B
 • TOTAL FRONT WALL COVERAGE = 471 SQFT
 • TOTAL MASONRY COVERAGE REQUIRED = 142 SQFT
 • TOTAL MASONRY COVERAGE PROVIDED = 169 SQFT



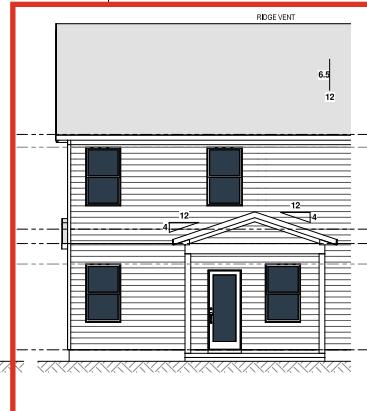
1 FRONT ELEVATION - B Masonry

B-1.2
 $3/32'' = 1'-0''$ WHEN PRINTED ON 11"x17" / ANSI B PAPER SIZE
 $1/4'' = 1'-0''$ WHEN PRINTED ON 22"x34" / ANSI D PAPER SIZE



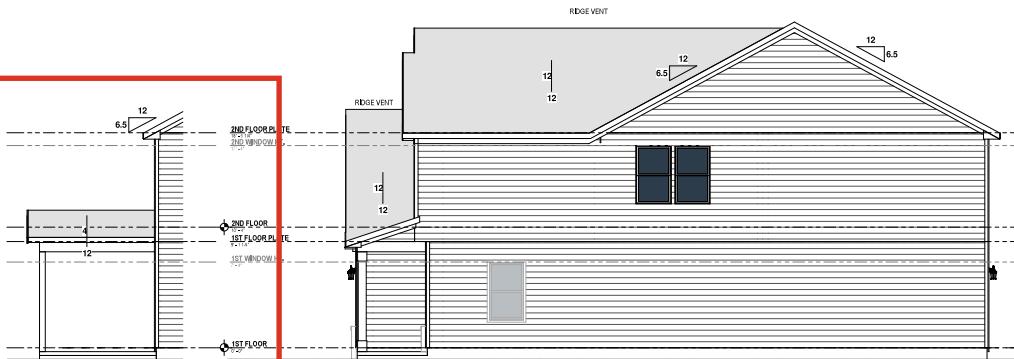
2 REAR ELEVATION - B Masonry

B-1.2
 $3/32'' = 1'-0''$ WHEN PRINTED ON 11"x17" / ANSI B PAPER SIZE
 $1/4'' = 1'-0''$ WHEN PRINTED ON 22"x34" / ANSI D PAPER SIZE



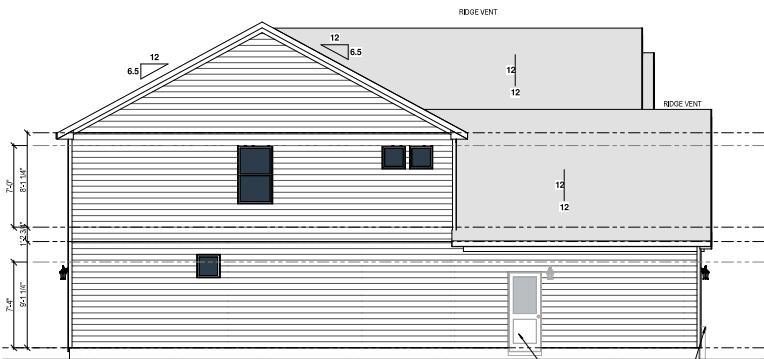
3 REAR - Cov'd Porch B

B-1.2
 $3/32'' = 1'-0''$ WHEN PRINTED ON 11"x17" / ANSI B PAPER SIZE
 $1/4'' = 1'-0''$ WHEN PRINTED ON 22"x34" / ANSI D PAPER SIZE



4 RIGHT - Cov'd Porch B

B-1.2
 $3/32'' = 1'-0''$ WHEN PRINTED ON 11"x17" / ANSI B PAPER SIZE
 $1/4'' = 1'-0''$ WHEN PRINTED ON 22"x34" / ANSI D PAPER SIZE



6 LEFT ELEVATION - B Masonry

B-1.2
 $3/32'' = 1'-0''$ WHEN PRINTED ON 11"x17" / ANSI B PAPER SIZE
 $1/4'' = 1'-0''$ WHEN PRINTED ON 22"x34" / ANSI D PAPER SIZE

Bellwood Carolinas 3654 - LH
 Dream Finders Homes
 Elevations - B Masonry

Date: 10/7/24
 Drawn By: SGM
 Checked By: SGM

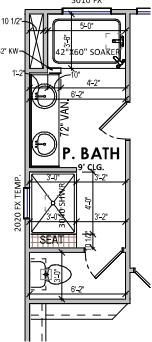
DREAM FINDERS
 HOMES

B-1.2

Wall Notes

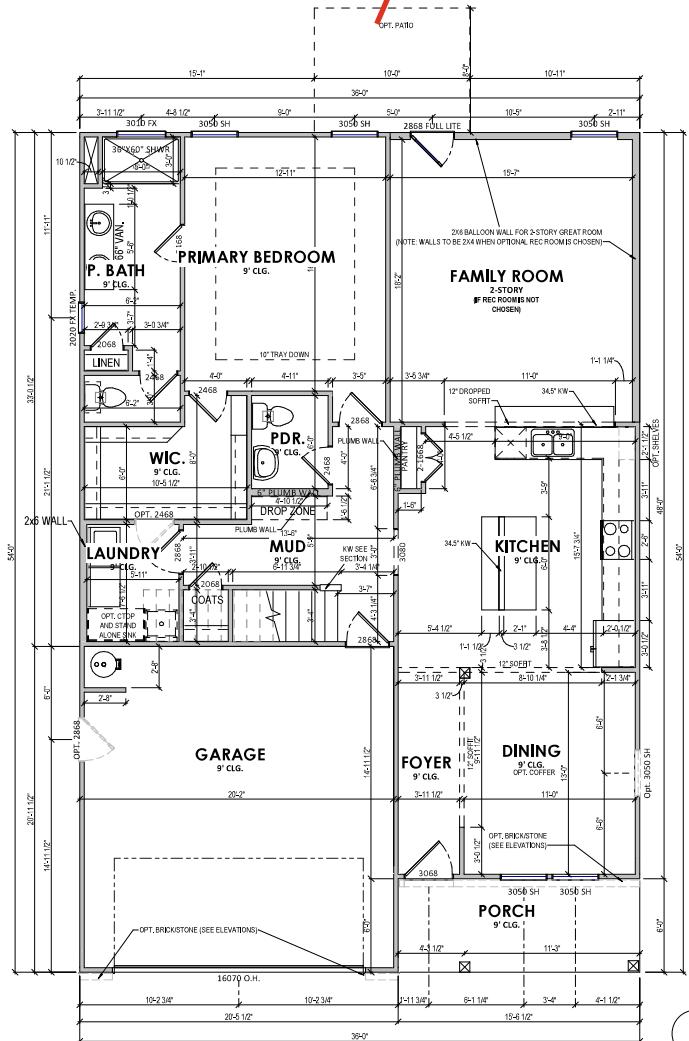
NOTE:

- ALL EXTERIOR WALLS TO BE 2X4 WALLS (STUD SPACING PER STRUCTURAL DRAWINGS)
- ALL INTERIOR WALLS TO BE 2X4 UNLESS OTHERWISE NOTED (SPACING PER STRUCTURAL DRAWINGS)

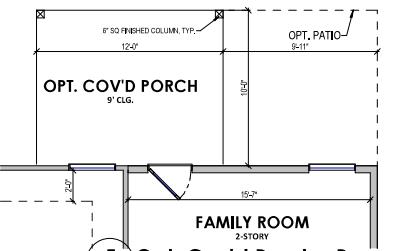


4 1st Floor Plan - P. Bath Upgrade -B
B-2 2,601 SF LT MEDIUM PRINTED ON 11" x 17" LANGLER PAPER SIZE

"8" = 1'-0" WHEN PRINTED ON 11"x17" / ANSI B PAPER SIZE
"4" = 1'-0" WHEN PRINTED ON 22"x34" / ANSI D PAPER SIZE

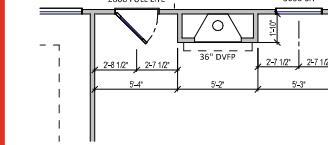


COV PORCH



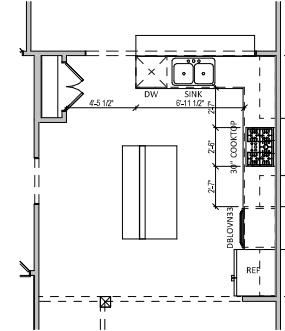
FAMILY ROOM
2-STORY

" WHEN PRINTED ON 11"x17" / ANSI B PAPER SIZE
' WHEN PRINTED ON 22"x34" / ANSI D PAPER SIZE



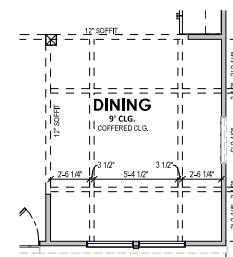
2 1st Floor Plan - Opt. Fireplace
R-2 1/8" = 1'-0" MILLEN PRINTED ON 32# ULTRA CANADA PAPER SIZE

1/8" = 1'-0" WHEN PRINTED ON 11"x17" / ANSI B PAPER SIZE
1/4" = 1'-0" WHEN PRINTED ON 22"x34" / ANSI D PAPER SIZE



3 B-2 1st Floor Plan - Opt. Gourmet Kitchen
1/8" = 1'-0" WHEN PRINTED ON 11" x 17" / ANSI B PAPER SIZE
1/4" = 1'-0" WHEN PRINTED ON 22" x 34" / ANSI D PAPER SIZE

1/4" = 1'-0" WHEN PRINTED ON 22" x 34" / ANSI D PAPER SIZE



1 1st Floor Plan - B

1st Floor Plan - B



DREAM FINDERS
HOMES

B-2

Bellwood Carolinas 3654 - LH

Dream Finders Homes

5 5

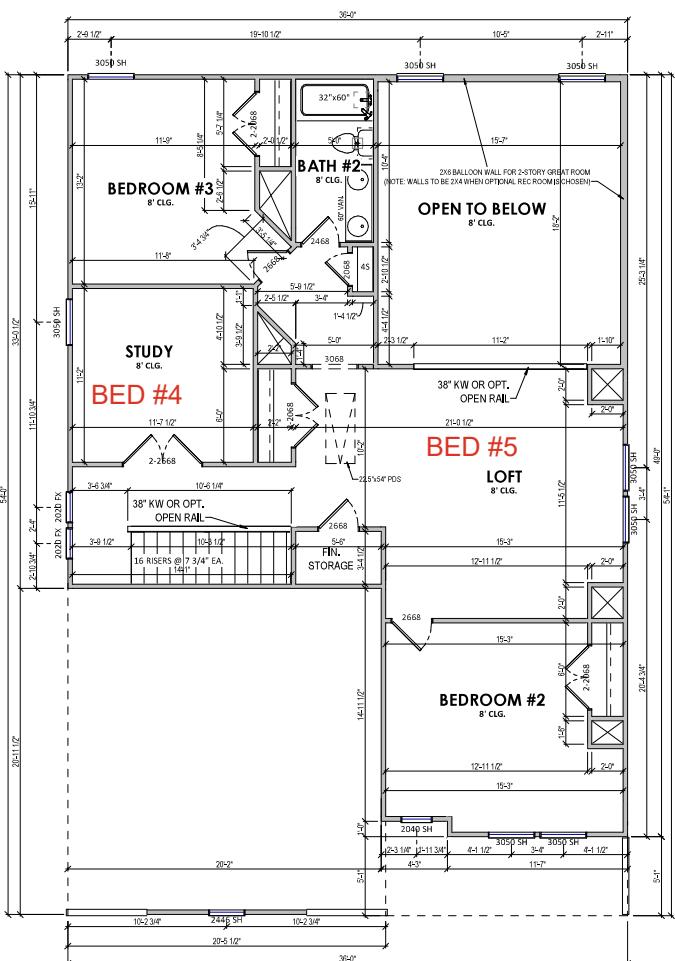
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Drawn By: rdc

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Wall Notes

- NOTE:
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 • ALL INTERIOR WALLS TO BE 2X4 UNLESS OTHERWISE NOTED (SPACING PER STRUCTURAL DRAWINGS)

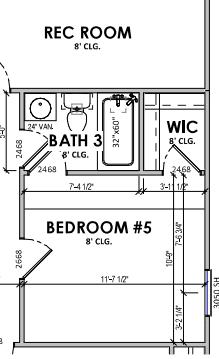


4 Opt. Bed 5 w Rec - B

B-3 1/8" = 1'-0" WHEN PRINTED ON 11"x17" / ANSI B PAPER SIZE
 1/4" = 1'-0" WHEN PRINTED ON 22"x34" / ANSI D PAPER SIZE

REC ROOM
 8' CLG.

BEDROOM #5
 8' CLG.

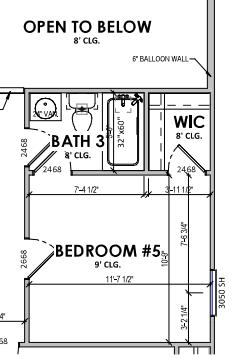


3 Opt. Bed 5 No Rec - B

B-3 1/8" = 1'-0" WHEN PRINTED ON 11"x17" / ANSI B PAPER SIZE
 1/4" = 1'-0" WHEN PRINTED ON 22"x34" / ANSI D PAPER SIZE

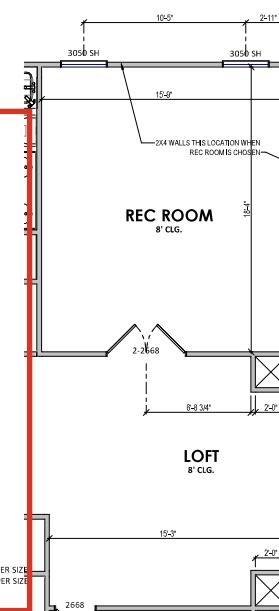
OPEN TO BELOW
 8' CLG.

BEDROOM #5
 9' CLG.



5 Opt. Loft w Rec - B

B-3 1/8" = 1'-0" WHEN PRINTED ON 11"x17" / ANSI B PAPER SIZE
 1/4" = 1'-0" WHEN PRINTED ON 22"x34" / ANSI D PAPER SIZE



Bellwood Carolinas 36654 - LH
 Dream Finders Homes
 Second Floor Plan - B

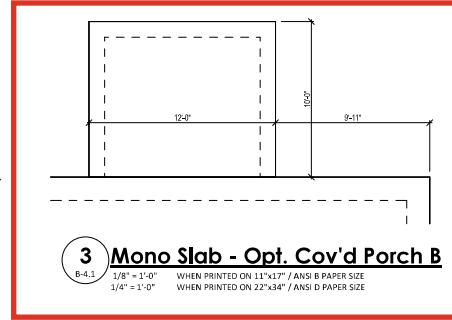
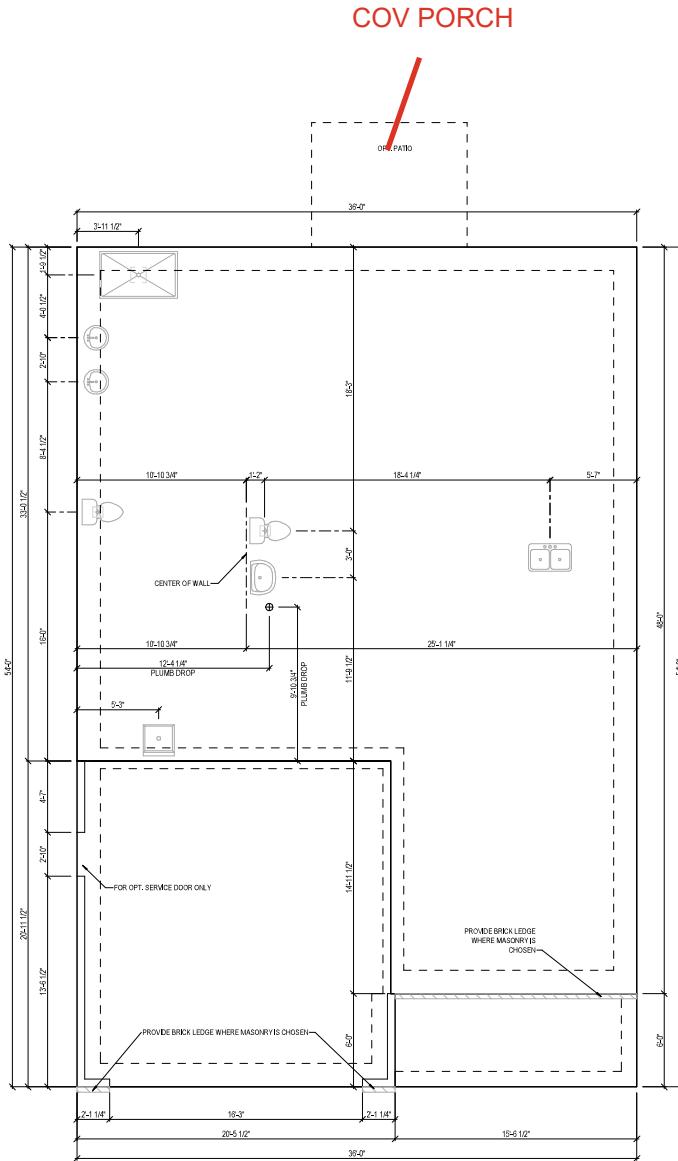
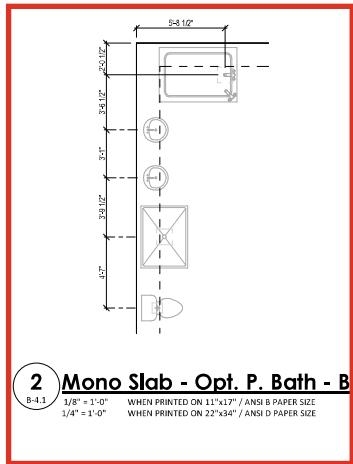
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DREAM FINDERS
 HOMES

B-3

NOTE: THIS SHEET IS AN ARCHITECTURAL FOUNDATION SHEET INTENDED ONLY FOR EXTERIOR DIMENSIONS AND VISUALIZATION OF THE FOUNDATION PERIMETER

SEE SEALED STRUCTURAL PAGE FOR INFORMATION REGARDING, BUT NOT LIMITED TO, FOOTING LOCATIONS AND SPECIFICATIONS, SLAB THICKNESS AND COMPACTION



NOTE: PLANSOURCE DESIGNS IS NOT RESPONSIBLE FOR THE STRUCTURAL CALCULATIONS FOR THIS CONSTRUCTION PLAN SET. ALL ARCHITECTURAL DESIGN IN THIS PLAN SET, ALTHOUGH NOT LIMITED TO, BEAM SIZES, FLOOR SPANS, STUD COLUMNS AND FOOTING SIZES, ARE TO BE THE RESPONSIBILITY OF THE BUILDER AND/OR ENGINEER



Bellwood Carolinas 3654 - LH
Dream Finders Homes
Mono Slab Foundation - B

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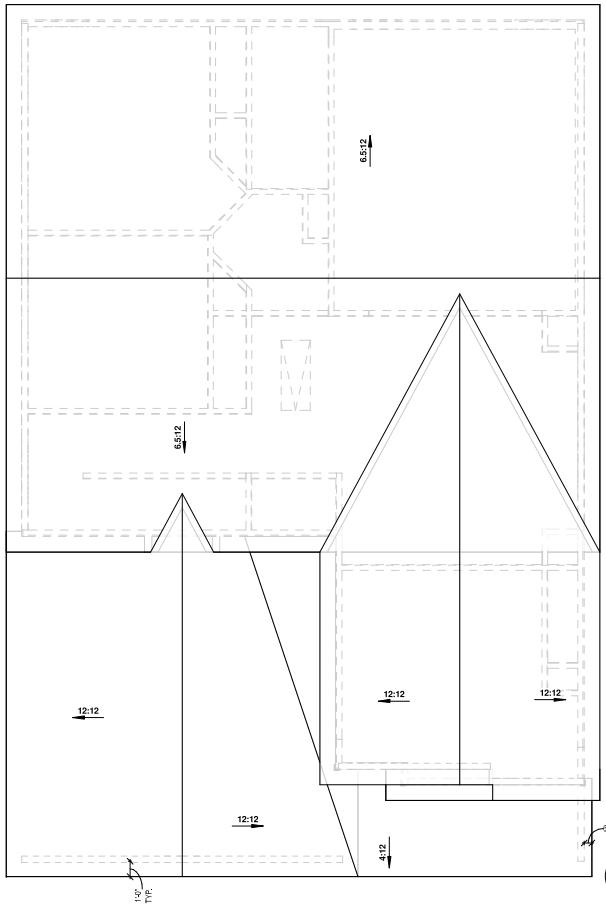
Dream Finders Homes

B-4.1

ROOF VENT CALCULATIONS

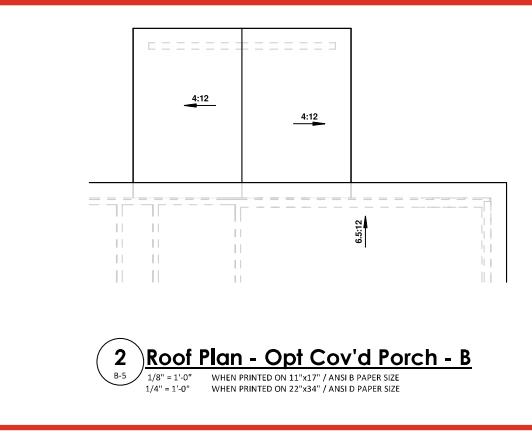
| | |
|---------------------------|--------------------|
| TOTAL AREA UNDER ROOF = | 1804 |
| TOTAL VENTILATION REQ'D = | 1804/150 |
| BUILDER SHALL PROVIDE = | 12.03 SQFT OF VENT |

NOTE: PLANSOURCE DESIGNS IS NOT RESPONSIBLE FOR THE STRUCTURAL CALCULATIONS FOR THIS CONSTRUCTION PLAN SET. ALL STRUCTURAL DESIGN ELEMENTS, INCLUDING BUT NOT LIMITED TO, BEAM SIZES, FLOOR SPANS, STUD COLUMNS AND FOOTING SIZES, ARE TO BE THE RESPONSIBILITY OF THE BUILDER AND/OR ENGINEER.



1 Roof Plan - B

B-5
1/8" = 1'-0"
1/4" = 1'-0"
WHEN PRINTED ON 11"x17" / ANSI B PAPER SIZE
WHEN PRINTED ON 22"x34" / ANSI D PAPER SIZE



2 Roof Plan - Opt Cov'd Porch - B

B-5
1/8" = 1'-0"
1/4" = 1'-0"
WHEN PRINTED ON 11"x17" / ANSI B PAPER SIZE
WHEN PRINTED ON 22"x34" / ANSI D PAPER SIZE



| |
|------------------------------|
| Bellwood Carolinas 3654 - LH |
| Dream Finders Homes |
| Roof Plan - B |

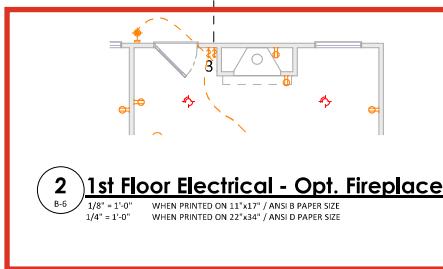
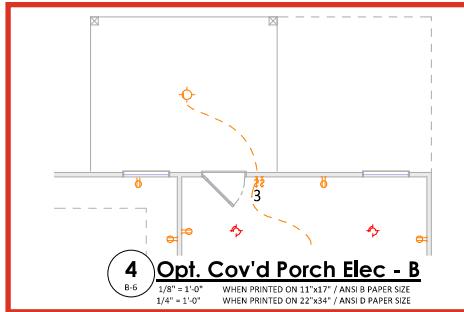
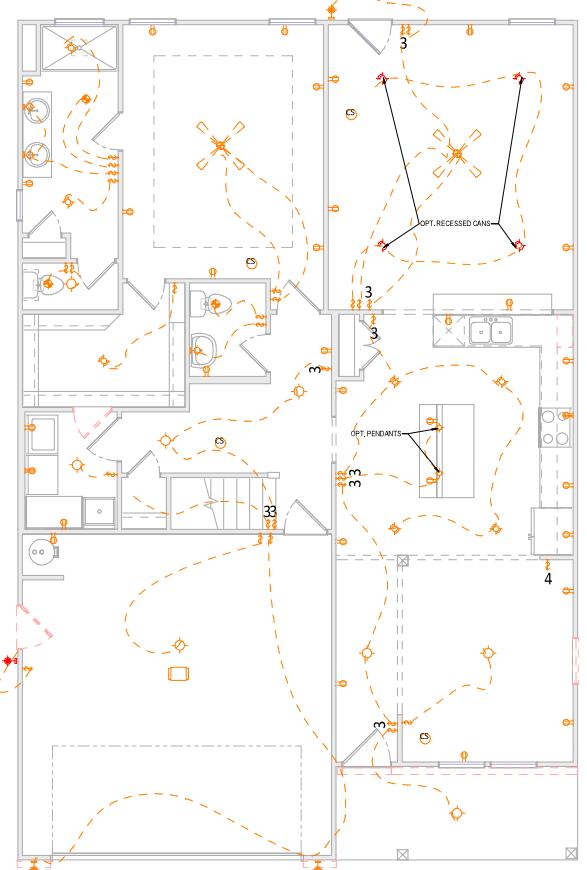
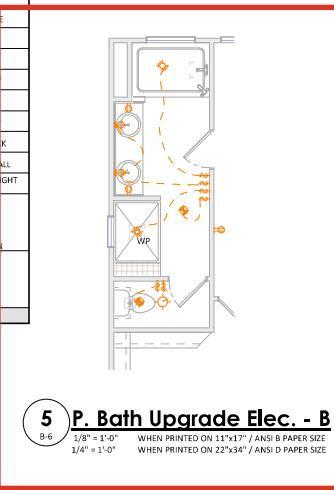
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| Date: 10/7/24 |
| Drawn By: rdc |
| Checked By: sgm |

| |
|------------------------|
| |
| DREAM FINDERS HOMES |

B-5

ELECTRICAL LEGEND

| | |
|---------------------|----------------------------------|
| 1 | SINGLE POLE SWITCH |
| 3 | 3-WAY SWITCH |
| 4 | 4-WAY SWITCH |
| D | DIMMER SWITCH |
| 220 | 220 VOLT OUTLET |
| WPS | WIRELESS |
| DUR | DUREX OUTLET |
| CLG | CEILING OUTLET |
| GFI | GROUND FAULT |
| OUTLET | OUTLET |
| SMOKE DETECTOR | CARBON MONOXIDE & SMOKE DETECTOR |
| C | CARBON MONOXIDE DETECTOR |
| TV | TELEVISION OUTLET |
| PANEL | SERVICE PANEL |
| M | SERVICE METER |
| WALL MOUNT LIGHT | SINGLE SCONCE |
| FLOOD | FLOOD LIGHT |
| 3 BULB | 3 BULB STRIP LIGHT |
| BATH | BATH FAN |
| CASTER | CLOSET CASTER LIGHT |
| PULL | PULL CHAIN LIGHT |
| HANGING | HANGING LIGHT |
| PNDL | HANGING PENDANT LIGHT |
| RECESSED | RECESSED CAN LIGHT |
| FLUORESCENT | FLUORESCENT LIGHT |
| RECTANGULAR | RECTANGULAR |
| CF | CF |
| LCF | LCF |
| LIGHTED CEILING PAN | LIGHTED CEILING PAN |



Bellwood Carolinas 3654 - LH
Dream Finders Homes
First Floor Electrical - B

Date: 10/7/24
Drawn By: rdc
Checked By: sgm

DREAM FINDERS HOMES
B-6

ELECTRICAL LEGEND

| | | | |
|--------|---------------------|-----------------|-------------------|
| S | SINGLE POLE SWITCH | DB | DOOR BELL BUTTON |
| B | 3-WAY SWITCH | CHIME | DOOR BELL CHIME |
| W | 4-WAY SWITCH | G | GARAGE DOOR |
| D | DIMMER SWITCH | GD | GARAGE DOOR |
| 220 | 220 VOLT OUTLET | WPGEI | OPENER |
| | DUPLEX OUTLET | OUTLET | WATERPROOF |
| | | OUTLET | CEILING OUTLET |
| GFI | GROUND FAULT | FLR | FLOOR OUTLET |
| | OUTLET | CARBON MONOXIDE | K&SMOKE DETECTOR |
| S | SMOKE DETECTOR | DATA | K&SMOKE DETECTOR |
| C | CARBON MONOXIDE | KEN | WORK OUTLET |
| TV | TELEVISION OUTLET | PH | TELEPHONE OUTLET |
| PANEL | SERVICE PANEL | DISP | GARBAGE DISPOSAL |
| M | SERVICE METER | ACCENT | ACCENT LIGHT |
| | WALL MOUNT LIGHT | SINGLE | SINGLE SCONCE |
| FLOOD | FLOOD LIGHT | DOUBLE | DOUBLE SCONCE |
| 3 BULB | STRIP LIGHT | STR | STAIR LIGHT |
| | BATH FAN & LIGHT | BATH | BATH FAN |
| CLOSET | CLOSET CASTER LIGHT | UC | UNDER CABINET |
| CASTER | PULL CHAIN LIGHT | LIGHT | KEYLESS LIGHT |
| | FLUSH MOUNT LIGHT | HANGING | HANGING LIGHT |
| HNGD | HANGING PENDANT | MINI | MINIATURE PLUCK |
| | LIGHT | RECESSED | RECESSED EYEBALL |
| | RECESSED CAN LIGHT | FB | FLUORESCENT LIGHT |
| | FLUORESCENT LIGHT | ROUND | RECTANGULAR |
| LCF | CEILING FAN | LCF | LIGHT w/ FAN |
| | LIGHTED CEILING | ROUGH | ROUGH |
| | FAN | ROUGH | LIGHT & FAN |
| | ROUGH | ROUGH | ROUGH |


1 2nd Floor Electrical Plan - B

B-7 $1/8'' = 1'-0"$ WHEN PRINTED ON 11" x 17" / ANSI B PAPER SIZE
 $1/4'' = 1'-0"$ WHEN PRINTED ON 22" x 34" / ANSI D PAPER SIZE

2 Opt. Bed 4 Elec - B

B-7 $1/8'' = 1'-0"$ WHEN PRINTED ON 11" x 17" / ANSI B PAPER SIZE
 $1/4'' = 1'-0"$ WHEN PRINTED ON 22" x 34" / ANSI D PAPER SIZE

3 Opt. Loft w Rec Elec - B

B-7 $1/8'' = 1'-0"$ WHEN PRINTED ON 11" x 17" / ANSI B PAPER SIZE
 $1/4'' = 1'-0"$ WHEN PRINTED ON 22" x 34" / ANSI D PAPER SIZE

4 Opt. Bed 5 w Rec Elec - B

B-7 $1/8'' = 1'-0"$ WHEN PRINTED ON 11" x 17" / ANSI B PAPER SIZE
 $1/4'' = 1'-0"$ WHEN PRINTED ON 22" x 34" / ANSI D PAPER SIZE

5 Opt. Bed 5 No Rec Elec - B

B-7 $1/8'' = 1'-0"$ WHEN PRINTED ON 11" x 17" / ANSI B PAPER SIZE
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B-7

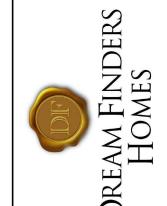
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DREAM FINDERS
 HOMES

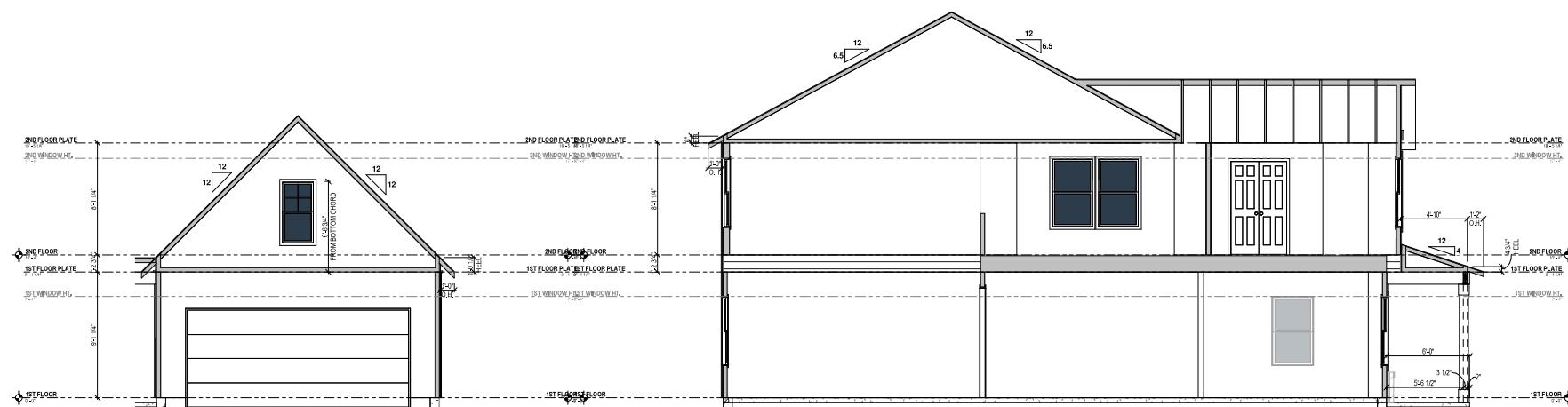
Bellwood Carolinas 3654 - LH
 Dream Finders Homes
 Second Floor Electrical - B

Bellwood Carolinas 3654 - LH
Dream Finders Homes
Sections

Date: 10/7/24
Drawn By: sgm
Checked By: sgm



B-8



1 GARAGE B

B-8 1/8" = 1'-0" WHEN PRINTED ON 11"x17" / ANSI B PAPER SIZE
1/4" = 1'-0" WHEN PRINTED ON 22"x34" / ANSI D PAPER SIZE

2 HOUSE SECTION B

B-8 1/8" = 1'-0" WHEN PRINTED ON 11"x17" / ANSI B PAPER SIZE
1/4" = 1'-0" WHEN PRINTED ON 22"x34" / ANSI D PAPER SIZE



BELLWOOD

LH

NORTH CAROLINA

THESE DRAWINGS ARE TO BE USED IN CONJUNCTION WITH AND COORDINATED WITH THE ARCHITECTURAL, CIVIL, MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS. THIS COORDINATION IS NOT THE RESPONSIBILITY OF THE STRUCTURAL ENGINEER OF RECORD (SER). SHOULD ANY DISCREPANCIES BECOME APPARENT, THE CONTRACTOR SHALL NOTIFY KSE ENGINEERING, P.C. BEFORE CONSTRUCTION BEGINS. IT IS THE INTENT OF THE ENGINEER LISTED ON THESE DOCUMENTS THAT THESE DOCUMENTS BE ACCURATE, PROVIDING LICENSED PROFESSIONALS CLEAR INFORMATION. EVERY ATTEMPT HAS BEEN MADE TO PREVENT ERROR, THE BUILDER AND ALL SUBCONTRACTORS ARE REQUIRED TO REVIEW ALL OF THE INFORMATION CONTAINED IN THESE DOCUMENTS PRIOR TO THE COMMENCEMENT OF ANY WORK. THE ENGINEER IS NOT RESPONSIBLE FOR ANY PLAN ERRORS, OMISSIONS, OR MISINTERPRETATIONS UNDETECTED AND NOT REPORTED TO THE ENGINEER PRIOR TO CONSTRUCTION. ALL CONSTRUCTION MUST BE IN ACCORDANCE TO THE INFORMATION FOUND IN THESE DOCUMENTS.

DESIGN SPECIFICATIONS:

DESIGN BUILDING CODE (REFERRED TO HEREIN AS "THE BUILDING CODE"):

- 2018 NORTH CAROLINA RESIDENTIAL CODE, WALL BRACING PER INTERNATIONAL RESIDENTIAL CODE 2015 EDITION.

DESIGN LIVE LOADS:

- ROOF = 20 PSF (LOAD DURATION FACTOR=1.25)
- UNINHABITABLE ATTICS WITH LIMITED STORAGE = 20 PSF (WHERE SPECIFIED ON PLANS)
- HABITABLE ATTICS AND ATTICS SERVED WITH FIXED STAIRS = 30 PSF
- FLOOR = 40 PSF
- FLOOR (SLEEPING AREAS) = 30 PSF
- DECK = 40 PSF
- BALCONY = 40 PSF
- STAIRS = 40 PSF

DESIGN DEAD LOADS:

- ROOF TRUSS = 17 PSF (TC=7, BC=10)
- FLOOR TRUSS = 15 PSF (TC=10, BC=5)
- FLOOR JOIST = 10 PSF
- QUEEN ANNE BRICK = 25 PSF

NOTE: STRUCTURAL FRAMING HAS NOT BEEN DESIGNED FOR TILE, GRANITE, MARBLE OR OTHER MATERIALS HEAVIER THAN THE ABOVE LOADING UNLESS SPECIFICALLY NOTED ON PLANS.

DESIGN WIND LOADS:

- ULTIMATE WIND SPEED = Up to 120 MPH
- EXPOSURE CATEGORY = B

ASSUMED SOIL BEARING CAPACITY = 2000 PSF

ASSUMED LATERAL SOIL PRESSURE = 45 PCF

FROST DEPTH = 12"

SEISMIC DESIGN CATEGORY = B

ENGINEERED LUMBER SHALL HAVE THE FOLLOWING MINIMUM DESIGN VALUES:

- TJI 210 SERIES (SERIES AND SPACING PER PLANS)
 - LSL: $E=1,550,000$ PSI, $F_a=2,325$ PSI, $F_v=310$ PSI, $F_c=900$ PSI
 - LVL: $E=2,000,000$ PSI, $F_a=2,600$ PSI, $F_v=285$ PSI, $F_c=750$ PSI
 - PSL: $E=2,100,000$ PSI, $F_a=2,900$ PSI, $F_v=290$ PSI, $F_c=625$ PSI

THIS PLAN HAS BEEN DESIGNED PER THE 2018 EDITION OF THE NC RESIDENTIAL CODE, WHERE FRAMING, FOUNDATION, OR OTHER STRUCTURAL ITEMS DO NOT COMPLY WITH THE PRESCRIPTIVE METHODS OF THE CODE, THOSE ITEMS HAVE BEEN DESIGNED IN ACCORDANCE WITH ACCEPTED ENGINEERING PRACTICE PER NCRC R301.1.3.



KSE
ENGINEERING
1900 AM DRIVE, SUITE 201, QUAKERTOWN, PA 18951
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Cover Sheet
Project #: 105-23003
Designed By:
Checked By:
Issue Date: 8/17/23
Re-Issue: 7/18/24
Bellwood Model - LH
Up To 120 M.P.H.
Carolina Division



S-0

GENERAL STRUCTURAL NOTES

1. THE DESIGN PROFESSIONAL, WHOSE SEAL APPEARS ON THESE DRAWINGS IS THE STRUCTURAL ENGINEER OF RECORD (SER) FOR THIS PROJECT. THE SER ASSUMES THE RESPONSIBILITY FOR THE MEDIUM STRUCTURE AND THE PERFORMANCE OF THE STRUCTURE. NO OTHER PARTY MAY REVERSE, ALTER, OR DELETE ANY STRUCTURAL ASPECTS OF THESE CONSTRUCTION DOCUMENTS WITHOUT WRITTEN CONSENT OF KSE ENGINEERING, P.C. OR THE SER, FOR THE PURPOSES OF THESE CONSTRUCTION DOCUMENTS, THE SER AND KSE ENGINEERING SHALL BE CONSIDERED THE SAME ENTITY.
2. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT IN THE FORM, THE CONTRACTOR SHALL PROVIDE ALL REQUIRED TEMPORARY BRACING DURING CONSTRUCTION TO STABILIZE THE STRUCTURE.
3. THE SER IS NOT RESPONSIBLE FOR CONSTRUCTION SEQUENCES, METHODS, OR TECHNIQUES IN CONNECTION WITH THE CONSTRUCTION OF THIS STRUCTURE. THE SER WILL NOT BE HELD RESPONSIBLE FOR THE CONTRACTOR'S FAILURE TO CONFORM TO THE CONTRACT DOCUMENTS UNLESS NON-COMPLIANCE OCCURS.
4. THE SER DOES NOT CERTIFY DIMENSIONAL ACCURACY OR ARCHITECTURAL LAYOUT INCLUDING ROOF GEOMETRY. THE SER ASSUMES NO LIABILITY FOR CHANGES MADE TO THESE PLANS BY OTHERS, OR FOR CONSTRUCTION METHODS, OR FOR ANY DEVIATION FROM THE PLANS. THE SER SHALL BE NOTIFIED PRIOR TO CONSTRUCTION IF ANY DISCREPANCIES ARE NOTED ON THE PLANS.
5. ANY SHOP DRAWINGS OR DETAILS WHICH ARE DEVELOPED ON THE CONSTRUCTION DRAWINGS SHALL BE COMPLETED UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER. THESE SHOP DRAWINGS SHALL BE SUBMITTED TO KSE ENGINEERING FOR REVIEW BEFORE ANY CONSTRUCTION BEGINS. THE SHOP DRAWINGS WILL BE REVIEWED FOR OVERALL COMPLIANCE AS IT RELATES TO THE STRUCTURAL DESIGN OF THE BUILDING. APPROVED VERIFICATION OF THE SHOP DRAWINGS FOR CONDITIONS, OR ACTUAL CONSTRUCTION CONDITIONS, IS NOT THE RESPONSIBILITY OF THE SER OR KSE ENGINEERING, P.C.
6. VERIFICATION OF ASSUMED FIELD CONDITIONS IS NOT THE RESPONSIBILITY OF THE SER. THE CONTRACTOR SHALL VERIFY THE FIELD CONDITIONS FOR ACCURACY AND REPORT ANY DISCREPANCIES TO KSE ENGINEERING, P.C. BEFORE CONSTRUCTION BEGINS.
7. THE SER IS NOT RESPONSIBLE FOR ANY DESIGN OF STRUCTURAL ELEMENTS OR NON-STRUCTURAL ELEMENTS EXCEPT THE ELEMENTS SPECIFICALLY NOTED ON THE STRUCTURAL DRAWINGS.
8. THIS STRUCTURE AND ALL CONSTRUCTION SHALL CONFORM TO ALL APPLICABLE SECTIONS OF THE BUILDING CODE AND ANY LOCAL CODES OR RESTRICTIONS.
9. DO NOT SCALE DRAWINGS. WRITTEN DIMENSIONS TAKE PRECEDENCE OVER DRAWN DIMENSIONS. ALL DIMENSIONS ARE TO FACE OF STUD OR TO FACE OF FRAMING UNLESS OTHERWISE NOTED.
10. PROVIDE MOISTURE PROTECTION AND FLASHING PER ARCHITECTURAL DETAILS.

FOUNDATIONS:

1. CONSTRUCTION IS TO BE IN ACCORDANCE WITH CHAPTER 4 OF THE BUILDING CODE.
 2. CONTRACTOR IS SOLELY RESPONSIBLE FOR VERIFYING THE SUITABILITY OF THE SITE SOIL CONDITIONS AT THE TIME OF CONSTRUCTION. THE BUILDER SHALL FURNISH ANY AND ALL REPORTS RECEIVED FROM THE GEOTECHNICAL ENGINEER ON THE STUDY OF THE PROPOSED SITE TO THE DESIGNER, STRUCTURAL ENGINEER, AND GENERAL CONTRACTOR.
 3. MAXIMUM DEPTH OF UNBALANCED FILLED GROUND AGAINST MASONRY WALLS TO BE DETERMINED BY THE BUILDING CONTRACTOR.
 4. THE SER HAS NOT PERFORMED A SUBSURFACE INVESTIGATION. VERIFICATION OF THE ASSUMED VALUE IS THE RESPONSIBILITY OF THE OWNER OR THE CONTRACTOR. SHOULD ANY ADVERSE SOIL CONDITION BE ENCOUNTERED, THE SER MUST BE CONTACTED BEFORE PROCEEDING.
 5. THE BOTTOM OF ALL FOOTINGS SHALL EXTEND BELOW THE FROST LINE FOR THE REGION IN WHICH THE STRUCTURE IS TO BE LOCATED, BUT NOT LESS THAN A MINIMUM OF 12" BELOW GRADE. ALL FOOTINGS TO HAVE A MINIMUM PROJECTION OF 2" ON EACH SIDE OF FOUNDATION WALLS. MAXIMUM FOOTING PROJECTION SHALL NOT EXCEED THE THICKNESS OF THE FOOTING.
 6. WOOD SILL PLATES SHALL BE ANCHORED TO THE FOUNDATION WITH $\frac{1}{2}$ " ANCHOR BOLTS WITH MINIMUM 7" EMBEDMENT, SPACED A MAXIMUM OF 6'-0" O.C. INSTALL MINIMUM 2 ANCHOR BOLTS PER SECTION, 12" MAXIMUM FROM CORNERS. $\frac{1}{2}$ " DIAMETER X 8" LONG SIMPSON TIP HD OR USC SWEP-BOLT SCREWS MAY BE SUBSTITUTED ON A 1 FOR 1 BASIS.
 7. ALL SILL SHALL BE PLACED UNDER THE DIRECTION OR RECOMMENDATION OF A LICENSED PROFESSIONAL ENGINEER. THE RESULTING SOIL SHALL BE COMPACTED TO A MINIMUM OF 95% MAXIMUM DRY WEIGHT.
 8. EXCAVATIONS OF FOOTINGS SHALL BE LINED TEMPORARILY WITH A 6 MIL POLYETHYLENE SHEET IF PLACEMENT OF CONCRETE DOES NOT OCCUR WITHIN 24 HOURS OF EXCAVATION.
 9. NO CONCRETE SHALL BE PLACED ACROSS ANY SUBGRADE CONTAINING WATER, ICE, FROST, OR LOOSE MATERIAL.
 10. PROVIDE FOUNDATION WATERPROOFING AND DRAIN WITH POSITIVE SLOPE TO OUTLET AS REQUIRED BY SITE CONDITIONS (SEE ARCHITECTURE PLANS AND DETAILS).
 11. NONE OF THE FOUNDATION DESIGNS IN THESE DOCUMENTS ARE SUITABLE FOR INSTALLATION IN SHRINK/SWELL CONDITIONS. REFER TO GEOTECHNICAL ENGINEER FOR APPROPRIATE DESIGN.
 12. TIES SHALL BE PROVIDED TO DRAIN SURFACE WATER AWAY FROM FOUNDATION WALLS. GROUT SHALL FALL A MINIMUM OF 6 INCHES WITHIN THE FIRST TEN FEET.
 13. CRAWL SPACE TO BE GRADED LEVEL AND CLEAR OF ALL DEBRIS.
 14. PROVIDE MINIMUM 6 FT APPROVED VAPOR BARRIER. ALL JOINTS TO BE LAPPED MINIMUM 12" AND SEALED.

CONCRETE & REINFORCING

1. CONCRETE SHALL BE BASED ON ACI 318 AND ACI 318.1 OR ACI 332. CONCRETE SHAPE SHALL HAVE A NORMA WEIGHT AGGREGATE AND A MINIMUM COMPRESSIVE STRENGTH OF (FC) 3000 P.S.I. MINIMUM AT 28 DAYS PER CODE (VARIES W/ WEATHER). UNLESS OTHERWISE NOTED ON THE PLAN.
 2. CONCRETE SHALL BE PROPORTIONED, MIXED, AND PLACED IN ACCORDANCE WITH THE LATEST EDITIONS OF ACI 318: "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE" AND ACI 301: "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS".
 3. AIR ENTRAINED CONCRETE MUST BE USED FOR ALL STRUCTURAL ELEMENTS EXPOSED TO FREEZE/THAW CYCLES AND DECING CHEMICALS. AIR ENTRAINED CONCRETE (IN PERCENT) SHALL BE WITHIN -1% TO +2% OF 2.5% FOR FOOTINGS AND CONCRETE SLABS.
 4. NO ADMIXTURES SHALL BE ADDED TO ANY STRUCTURAL CONCRETE WITHOUT WRITTEN PERMISSION OF THE SER. WATER ADDED TO CONCRETE ON SITE SHALL NOT EXCEED THAT ALLOWED BY THE MIX DESIGN.
 5. CONCRETE SLABS-ON-GRADE SHALL BE CONSTRUCTED IN ACCORDANCE WITH ACI 302.1R: "GUIDE FOR CONCRETE SLAB AND SLAB CONSTRUCTION".

WOOD FRAMING:

- SOLID SAWN WOOD FRAMING MEMBERS SHALL CONFORM TO THE SPECIFICATIONS LISTED IN THE LATEST EDITION OF THE "NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION": (NDS). UNLESS OTHERWISE NOTED, ALL WOOD FRAMING MEMBERS ARE DESIGNED TO SPRUCE-PINE-FIR (SPF) WITH THE FOLLOWING MINIMUM DESIGN VALUES:
E=1,400,000 PSI, F_u=757 PSI, F_v=135 PSI
1.1. FRAMING: SPF #2
1.2. PLATES: SPF #2
1.3. STUDS: SPF STUD GRADE.
 - WALL STUD SPACING: (MAXIMUM 10' NOMINAL PLATE HEIGHT):
1 & 2 STORY EXTERIOR AND INTERIOR BEARING:
2x4 @ 16" O.C. OR 2x6 @ 24" O.C., U.N.O.
BOTTOM OF 3 STORIES EXTERIOR AND INTERIOR BEARING:
2x6 @ 16" O.C., U.N.O.
INTERIOR NON-BEARING:
2x @ 24" O.C., U.N.O.
 - ALL LUMBER EXPOSED TO WEATHER OR IN CONTACT WITH CONCRETE SHALL BE PRESERVATIVE TREATED SOUTHERN YELLOW PIN #2 OR BETTER.
 - ANCHOR SILT PLATES IN ACCORDANCE W/ GENERAL STRUCTURAL NOTES.
 - ALL BEAMS SPECIFIED ARE MINIMUM SIZES ONLY. LARGER MEMBERS MAY BE SUBSTITUTED AS NEEDED FOR EASE OF CONSTRUCTION.
 - NAILS SHALL BE COMMON WIRE NAILS UNLESS OTHERWISE NOTED. TILT HOLES AND LEAD HOLES FOR LAG SCREWS SHALL BE IN ACCORDANCE WITH NDS SPECIFICATIONS.
 - INDIVIDUAL STUDS FORMING A COLUMN SHALL BE ATTACHED WITH (2) ROWS 10D NAILS @ 6" O.C. STAGGERED. THE STUD COLUMN SHALL BE FULLY BLOCKED AT ALL FLOOR LEVELS TO ENSURE PROPER LOAD TRANSFER. WALL SHEATHING SHALL BE NAILED TO EDGE OF EACH STUD.
 - FAIR一面 NAIL STUDS, JACK STUDS AND HEADERS WITH (2) ROWS 16d COMMON NAILS @ 16" O.C., STAGGERED, OR PER MANUFACTURER'S SPECIFICATIONS FOR ENGRAVED LUMBER. APPLY NAILING FROM BOTH SIDES FOR (3) OR MORE PLIES.
 - FASTEN 4-RIB BEAMS WITH (1") DIAMETER THROUGH BOLT W/ NUTS AND WASHERS AT 12" O.C. STAGGERED TOP AND BOTTOM, $\frac{1}{2}$ " MINIMUM EDGE DISTANCE. (UNLESS OTHERWISE NOTED).
 - ALL BEAMS AND HEADERS SHALL HAVE (1)12 JACK STUD & (1)12 KING STUD UNLESS OTHERWISE NOTED. THE NUMBER OF STUDS INDICATED ON PLANS ARE THE TOTAL NUMBER OF JACK STUDS REQUIRED, UNLESS OTHERWISE NOTED.
 - PROVIDE KING STUDS AT EACH END OF HEADER AS NOTED BELOW.
(1) STUD UP TO 6' OPENING
(2) STUDS UP TO 8' OPENING
(3) STUDS UP TO 9' OPENING
 - ALL BEAMS TO BE CONTINUOUSLY SUPPORTED LATERALLY AND SHALL NOT SWING FREE. USE ANCHORS AS SHOWN ON PLANS. DO NOT HANG SUPPORTS.

WOOD TRUSSES (FLOOR & ROOF)

1. THE WOOD TRUSS MANUFACTURER/FABRICATOR IS RESPONSIBLE FOR THE DESIGN OF THE WOOD TRUSSES. SUITABLE SEALED SHOP DRAWINGS AND SUPPORTING CALCULATIONS TO THE SER FOR REVIEW PRIOR TO FABRICATION. THE SER SHALL HAVE A MINIMUM OF (5) DAYS FOR REVIEW. THE REVIEW BY THE SER SHALL BE FOR OVERALL COMPLIANCE OF THE DESIGN DOCUMENTS. THE SER SHALL ASSUME NO RESPONSIBILITY FOR THE ACCEPTABILITY OF THE DESIGN DRAWINGS FOR THE WOOD TRUSSES.
 2. THE WOOD TRUSSES SHALL BE DESIGNED FOR THE REQUIRED LOADINGS AS SPECIFIED IN THE LOCAL BUILDING CODE, THE ASCE STANDARD "MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES" (ASCE 7), AND THE LOADING REQUIREMENTS SHOWN ON THESE SPECIFICATIONS. THE TRUSS DRAWINGS SHALL BE COORDINATED WITH ALL OTHER CONSTRUCTION DOCUMENTS AND PROVISIONS PROVIDED FOR LOADS SHOWN ON THESE DRAWINGS INCLUDING, BUT NOT LIMITED TO, HVAC EQUIPMENT, PIPING, AND ARCHITECTURAL FIXTURES ATTACHED TO THE TRUSSES.
 3. THE TRUSS SHALL BE DESIGNED, FABRICATED, AND ERECTED IN ACCORDANCE WITH THE LATEST EDITION OF THE ANSI/TPI 1: NATIONAL DESIGN STANDARD FOR METAL PLATE CONNECTED WOOD TRUSS CONSTRUCTION.
 4. THE TRUSS MANUFACTURER SHALL PROVIDE ADEQUATE BRACING INFORMATION IN ACCORDANCE WITH "BUILDING COMPONENT SAFETY INFORMATION GUIDE TO GOOD PRACTICE FOR HANDLING, INSTALLING, RESTRAINING & BRACING OF METAL PLATE CONNECTED WOOD TRUSSES" (BCS). THE BRACING, BOTH TEMPORARY AND PERMANENT, SHALL BE SHOWN ON THE SHOP DRAWINGS. ALSO, THE SHOP DRAWINGS SHALL SHOW THE REQUIRED ATTACHMENTS FOR THE TRUSSES.
 5. THE CONTRACTOR IS RESPONSIBLE FOR INSTALLING TEMPORARY BRACING AND SHORING FOR THE FLOOR AND ROOF TRUSSES AS REQUIRED DURING CONSTRUCTION. THE CONTRACTOR SHALL FOLLOW THE REQUIREMENTS OF THE LATEST RSC. THE CONTRACTOR SHALL KEEP A COPY OF THE BCSI SUMMARY SHEETS ON SITE.
 6. THE CONTRACTOR IS RESPONSIBLE FOR INSTALLING ALL PERMANENT TRUSS BRACING SHOWN IN THE STRUCTURAL DRAWINGS AND IN THE TRUSS DESIGNS. ALL CONTINUOUS LATERAL BRACING OF WOOD REQUIRES
 1. FABRICATION AND PLACEMENT OF STRUCTURAL WOOD SHEATHING SHALL BE IN ACCORDANCE WITH THE APA DESIGN/CONSTRUCTION GUIDE "RESIDENTIAL AND COMMERCIAL," AND ALL OTHER APPLICABLE APA STANDARDS.
 2. ALL REQUIRED WOOD SHEATHING SHALL BEAR THE MARK OF THE APA.
 3. WOOD WALL SHEATHING SHALL COMPLY WITH THE REQUIREMENTS OF LOCAL BUILDING CODES FOR THE APPROPRIATE STATE AS INDICATED ON THESE DRAWINGS. REFER TO WALL BRACING NOTES IN PLAN FOR MORE INFORMATION. EXTERIOR WALLS TO BE FULLY SHEATHED. USE 7/8" OSB OR PLYWOOD MINIMUM. A BRACED WALL PANELS PROVIDE BLOCKING AT ALL SHEET EDGES NOT FALLING ON STUDS OR PLATES.
 4. ROOF SHEATHING SHALL BE APA RATED SHEATHING EXPOSURE 1 OR 2.
 5. ROOF SHEATHING SHALL BE CONTINUOUS OVER TWO SUPPORTING FRAMING SPACES. SHEATHING MUST BE ATTACHED WITH A MINIMUM OF 6D NAILS AT 6" O.C. AT PANEL EDGES AND AT 12" O.C. IN PANELED FIELD UNLESS OTHERWISE NOTED ON THE PLANS. SHEATHING MUST BE APPLIED WITH THE LONG DIRECTION PERPENDICULAR TO FRAMING. SHEATHING SHALL HAVE A SPAN RATE CONSISTENT WITH THE FRAMING SPACING. PROVIDE SUITABLE EDGE SUPPORT BY USE OF T&G PLYWOOD CLIPS OR LUMBER BLOCKING UNLESS OTHERWISE NOTED. PANEL END JOINTS SHALL OCCUR OVER FRAMING. ROOF SHEATHING TO BE $\frac{1}{8}$ " OSB MINIMUM.
 6. WOOD ROOF SHEATHING SHALL BE APA RATED SHEATHING EXPOSURE 1 OR 2. ATTACH SHEATHING TO ITS SUPPORTING FRAMING WITH (1) 10D NAIL AT 6" O.C. AT PANEL EDGES AND AT 12" O.C. IN PANELED FIELD UNLESS OTHERWISE NOTED ON THE PLANS. SHEATHING SHALL BE APPLIED PERPENDICULAR TO FRAMING. SHEATHING SHALL HAVE A SPAN RATE CONSISTENT WITH THE FRAMING SPACING. PROVIDE SUITABLE EDGE SUPPORT BY USE OF T&G PLYWOOD OR LUMBER BLOCKING UNLESS OTHERWISE NOTED. PANEL END JOINTS SHALL OCCUR OVER FRAMING.
 7. SHEATHING SHALL HAVE A $\frac{1}{8}$ " GAP AT PANEL ENDS AND EDGES RECOMMENDED IN ACCORDANCE WITH THE APA.

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Project #: 105-19000
Designed By: KRK
Checked By:
Issue Date: 1/1/19
Re-Issue:
Scale: 1/8"=1'-0" @ 11x13
1/4"=1'-0" @ 22x34

S-0

| BRICK VENEER LINTEL SCHEDULE | | |
|------------------------------|-----------------------------------------------------------|-------------|
| SPAN | LINTEL SIZE | END BEARING |
| UP TO 3'-0" | 3 $\frac{1}{2}$ " x 3 $\frac{1}{2}$ " x 4 $\frac{1}{2}$ " | 4" |
| UP TO 6'-3" | 5" x 3 $\frac{1}{2}$ " x 6 $\frac{1}{2}$ " LL.V. | 8" |
| UP TO 9'-6" | 6" x 3 $\frac{1}{2}$ " x 6 $\frac{1}{2}$ " LL.V. | 12" |

LINTELS ARE NOT DESIGNED TO BE BOLTED TO HEADERS
UNLESS SPECIFIED ON UNIT PLANS.
SPANS OVER 4'-0" SHALL BE SHORED UP UNTIL CURED.

- 10 of 10

MECHANICAL FASTENERS:

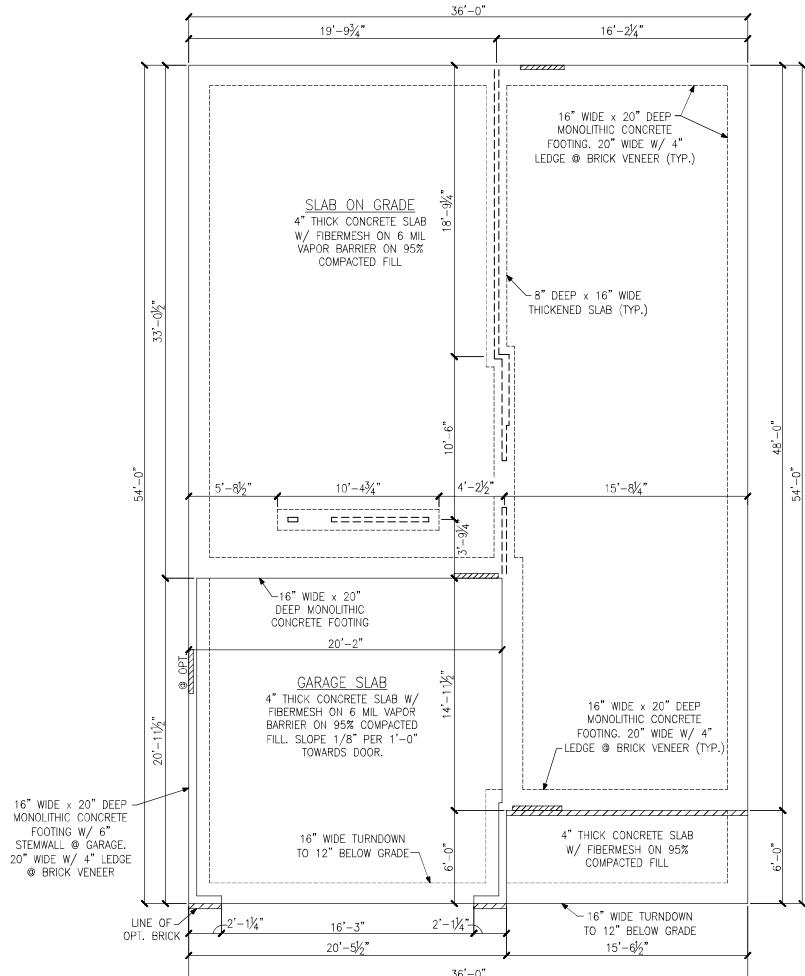
- M E C H A N I C A L F A S T E N E R S :**

 1. ALL METAL HARDWARE AND FASTENERS TO BE SIMPSON STRONG-TIE OR APPROVED EQUIVALENT.
 2. ALL HARDWARE AND FASTENERS IN CONTACT WITH PRESERVATIVE PRESSURE TREATED LUMBER SHALL BE HOT DIPPED GALVANIZED IN ACCORDANCE WITH ASTM A 153, G-185.
 3. MANY OF THE NEW PRESSURE TREATED WOOD USE CHEMICALS THAT ARE CORROSIVE TO STEEL. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE TYPE OF WOOD TREATMENT AND SELECT APPROPRIATE CONNECTORS THAT WILL RESIST THE APPLICABLE CORROSION.

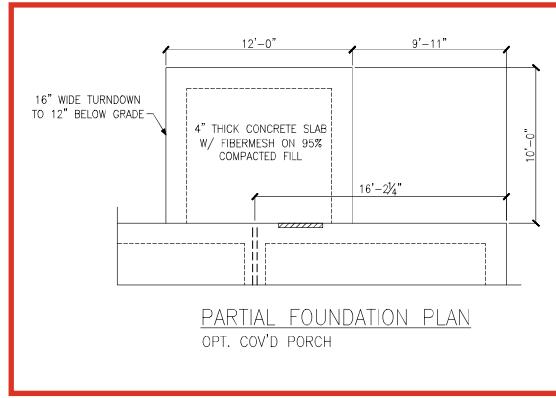
3. CEILING JOISTS SHALL HAVE LATERAL SUPPORT W/ BRACING ON TOP EDGE OF JOIST AT LOOSE JOIST

- JOISTS NOT FASTENED TO RAFTERS) OR FULL DEPTH BLOCKING. FASTEN END OF BRACING TO RAFTER OR CABLE END FRAMING. FASTEN RAFTER AND CEILING JOIST WITH (6) 12D NAILS UNLESS OTHERWISE NOTED.

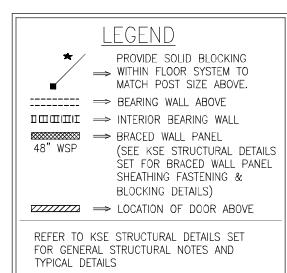
5. PROVIDE VERTICAL 2x6 STRONGBACKS AT CEILING JOISTS 8'-0" O.C. TIE STRONGBACK ENDS TO CABLE STUDS OR RAFTERS WHERE POSSIBLE. PROVIDE BLOCKING BETWEEN TOP PLATES AND STRONGBACKS. PROVIDE 3x4 FLAT FASTENED TO EACH JOIST WITH (2) 12d NAILS. FASTEN STRONGBACK TO 2x4 FLAT WITH (4) 12d NAILS. 11'-0" O.C. NAILS. FASTEN 3x4 TO EACH JOIST WITH (1), 11x 20d NAILS.



MONOLITHIC SLAB FOUNDATION PLAN



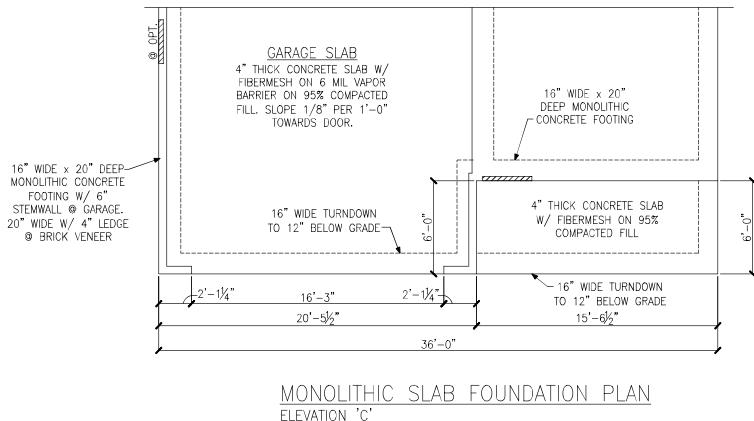
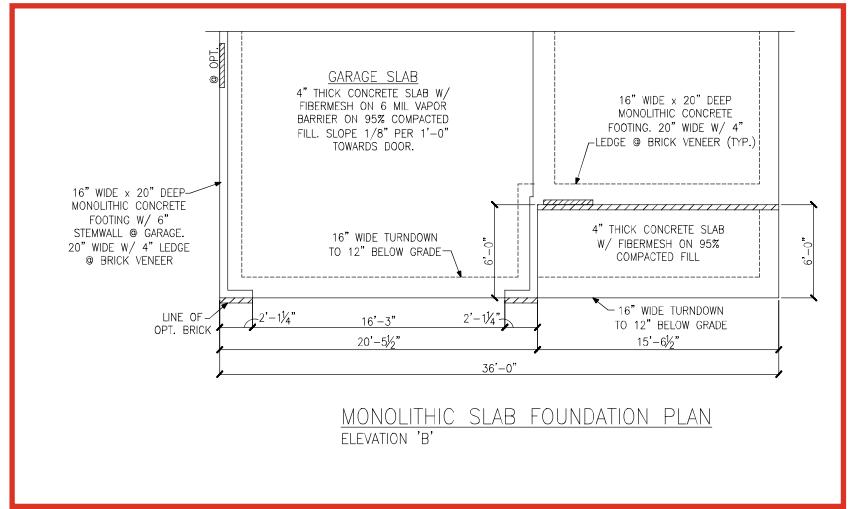
PARTIAL FOUNDATION PLAN
OPT. COV'D PORCH



Monolithic Slab Foundation Plans
Elevation 'A' & Options
Bellwood Model - LH
Up To 120 M.P.H.
Carolina Division

Project #: 105-23003
Designed By: KRK
Checked By:
Issue Date: 8/17/23
Re-Issue: 7/18/24
Scale: 1/8"=1'-0" @ 11x17
1/4"=1'-0" @ 22x34

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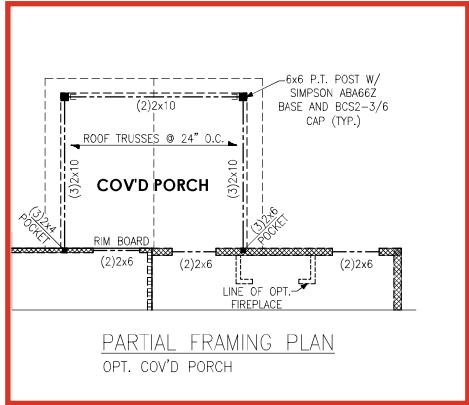


| LEGEND | |
|--------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|
| ★ | PROVIDE SOLID BLOCKING WITHIN FLOOR SYSTEM TO MATCH POST SIZE ABOVE. |
| → | BEARING WALL ABOVE |
| □□□□□ | INTERIOR BEARING WALL |
| ▨▨▨▨▨ | SPACED WALL PANEL 48" WSP (SEE KSE STRUCTURAL DETAILS SET FOR SPACED WALL PANEL SHEATHING FASTENING & BLOCKING DETAILS) |
| ▨▨▨▨▨ | LOCATION OF DOOR ABOVE |
| REFER TO KSE STRUCTURAL DETAILS SET FOR GENERAL STRUCTURAL NOTES AND TYPICAL DETAILS | |

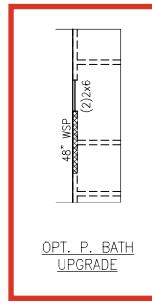
Monolithic Slab Foundation Plans
Elevations 'B' & 'C'
Bellwood Model - LH
Up To 120 M.R.H.
Carolina Division

Project #: 105-23003
Designed By: KRK
Checked By:
Issue Date: 8/17/23
Re-Issue: 7/16/24
Scale: 1/8"=1'-0" @ 11x17
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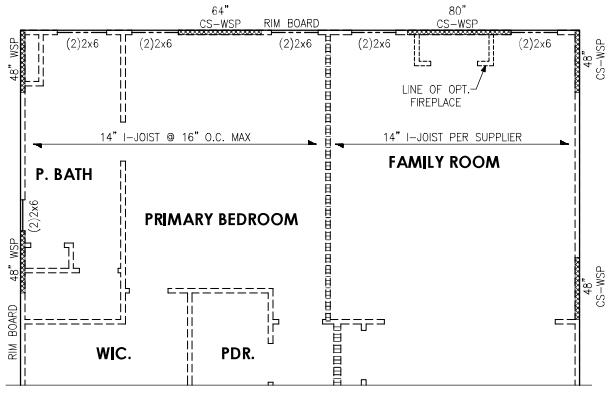




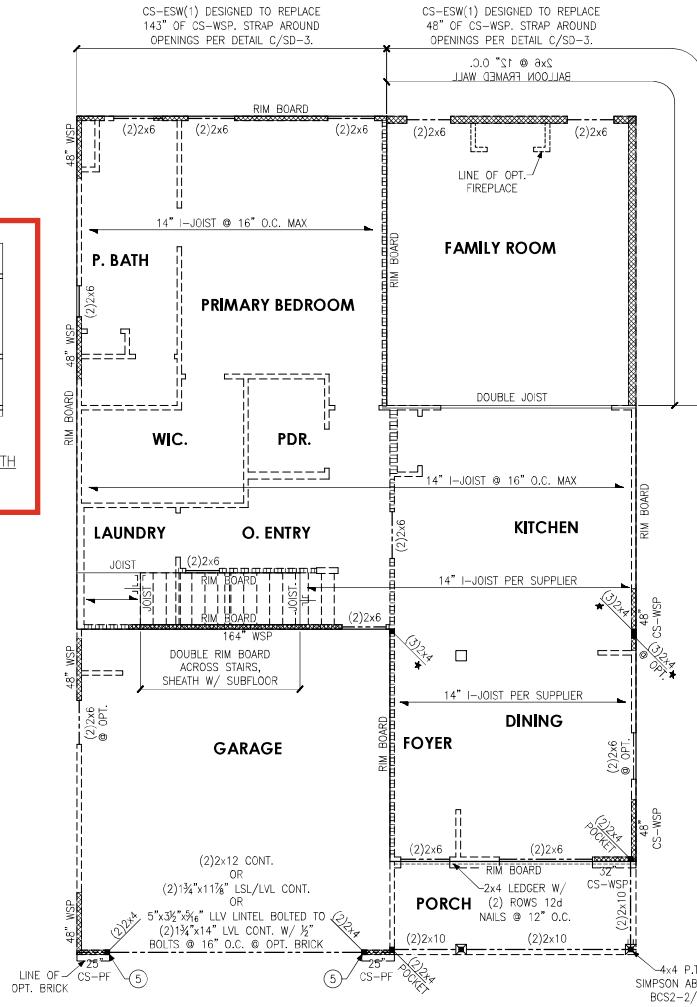
PARTIAL FRAMING PLAN
OPT. COV'D PORCH



PARTIAL TRAV



PARTIAL FRAMING PLAN
OPT. REC ROOM



SECOND FLOOR FRAMING PLAN
ELEVATION 'A'



Second Floor Framing Plans
Elevation 'A' & Options
Bellwood Model - LH
Up To 120 M.P.H.
Carolina Division

Project #: 105-23003
Designed By: KPK

Checked By: _____

Issue Date: 8/17/23
Re-Issue: 7/18/24

Scale: 1/8"=1'-0" @ 11x17
1/4"=1'-0" @ 22x34

[View Details](#)

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3 2

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DREAM FINDERS
HOMES



GARAGE

(2)2x6 @ OPT.

(2)2x12 CONT.
OR
(2)1½" x 11¾" LSL/LVL CONT.
OR
5" x 3¾" x 5¾" LLV LINTEL BOLTED TO (2)2x4
(2)1½" x 1¼" LVL CONT. W/ ½" BOLTS @ 16" O.C. @ OPT. BRICK

14" I-JOIST PER SUPPLIER

FOYER

14" I-JOIST PER SUPPLIER CANTILEVERED

DOUBLE JOIST

JOIST CANTILEVERED

(2)2x6 (2)2x6

2x4 LEDGER W/ (2) ROWS 12d NAILS @ 12" O.C.

DINING

(2)2x6 @ OPT.

68 CS-WSP 4'-0"

RIM BOARD CANTILEVERED. DO NOT SPLICERIM BOARD WITHIN 4'-0" OF EXTERIOR WALL

PORCH

32" CS-WSP (2)2x10 (2)2x10

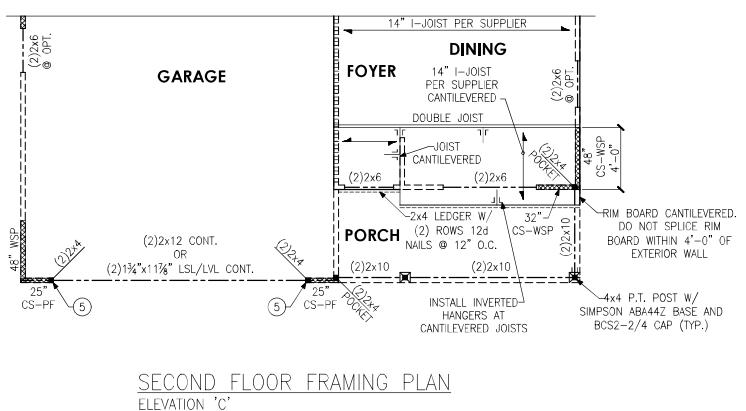
INSTALL INVERTED HANGERS AT CANTILEVERED JOISTS

4x4 P.T. POST W/ SIMPSON ABA44Z BASE AND BCS2-2/4 CAP (TYP.)

18" WSP
25 CS-PF (5)

25 CS-PF (5)

SECOND FLOOR FRAMING PLAN
ELEVATION 'B'



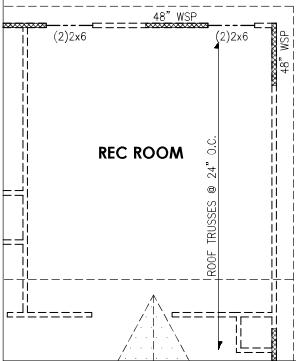
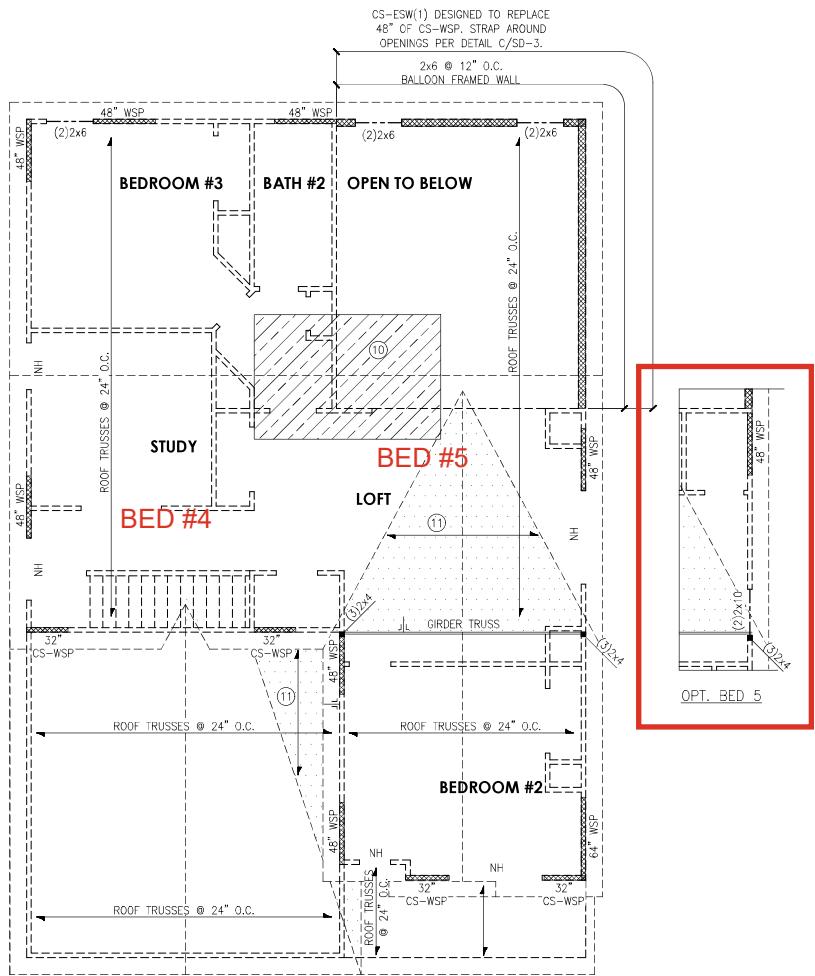
| LEGEND | |
|--------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|
| | PROVIDE SOLID BLOCKING WITHIN FLOOR SYSTEM TO MATCH POST SIZE ABOVE. |
| | BEARING WALL ABOVE |
| | INTERIOR BEARING WALL |
| | BRACED WALL PANEL (SEE KSE STRUCTURAL DETAILS SET FOR BRACED WALL PANEL SHEATHING FASTENING & BLOCKING DETAILS) |
| 48° WSP | |
| NH | NO HEADER REQUIRED |
| REFER TO KSE STRUCTURAL DETAILS SET FOR GENERAL STRUCTURAL NOTES AND TYPICAL DETAILS | |
| PLAN DESIGNED WITH 9" WALL PLATES | |
| FLOOR FRAMING TO BE 14" DEEP TJI 110 SERIES OR EQUAL, SPACING PER MANUFACTURER. | |
| <u>KEYNOTES:</u> | |
| ⑤ | INSTALL TWO PANEL CS-PF PORTAL FRAME PER DETAIL A OR B/SD-4. |

Second Floor Framing Plans
Elevations 'B' & 'C'
Bellwood Model - LH
Up To '20 M.P.H.
Carolina Division

Project #: 105-23003
Designed By: KRK
Checked By:
Issue Date: 8/17/23
Re-Issue: 7/18/24
Scale: 1/8"=1'-0" @ 11x17
1/4"=1'-0" @ 22x34

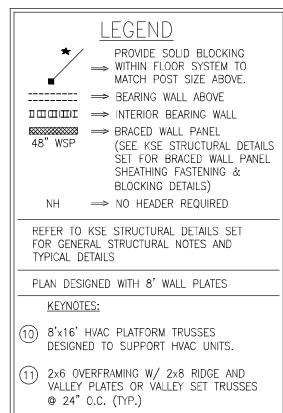
S-2.1

S-2.1



PARTIAL FRAMING PLAN

OPT. LOFT W/ REC.
OPT. BED 5 W/ REC. SIMILAR



ROOF FRAMING PLAN
ELEVATION 'B'

Roof Framing Plans
Elevation 'B' & Option
Bellwood Model - LH
Up To 120 M.P.H.
Carolina Division

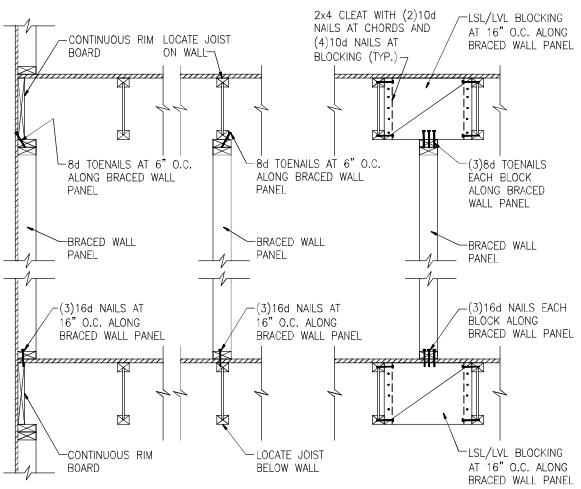
Project #: 105-23003
Designed By: KRK
Checked By:
Issue Date: 8/17/23
Re-Issue: 7/18/24
Scale: 1/8"=1'-0" @ 11x17
1/4"=1'-0" @ 22x34

S-3.1

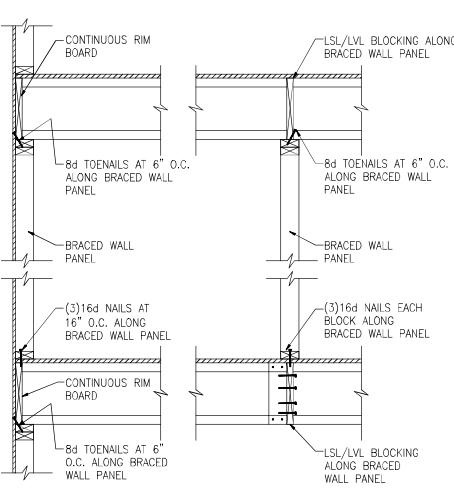
S-3.1



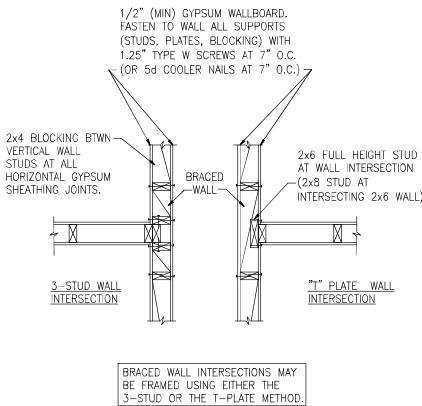
DREAM FINDERS HOMES



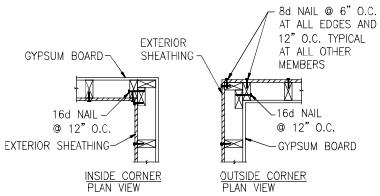
(A) TYPICAL BRACED WALL PANEL TO FLOOR/CEILING CONNECTION
BRACED WALL PANELS PARALLEL TO I-JOISTS



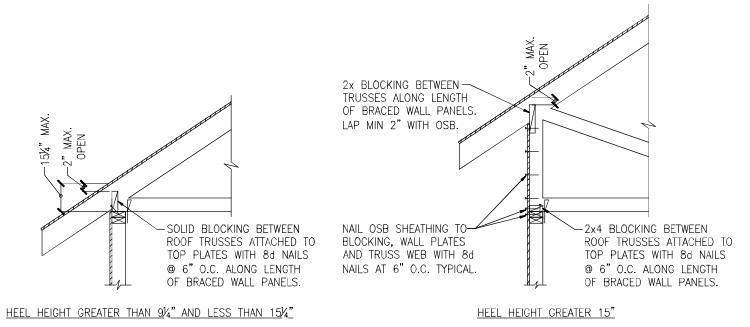
(B) TYPICAL BRACED WALL PANEL TO FLOOR/CEILING CONNECTION
BRACED WALL PANELS PERPENDICULAR TO I-JOISTS



(C) METHOD GB(1) AND GB(2) INTERSECTION DETAILS



(D) TYPICAL EXTERIOR CORNER WALL FRAMING



(E) ROOF TRUSS BEARING/BLOCKING AT BRACED WALL PANELS
ONLY REQUIRED AT BRACED WALL PANELS

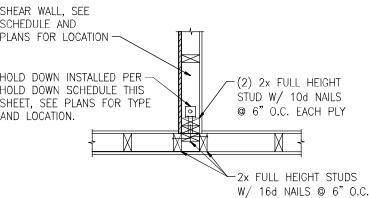
Braced Wall Details

Up To 120 M.P.H.
North Carolina

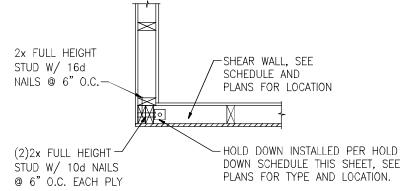
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| Project #: 105-19000 |
| Designed By: KRK |
| Checked By: |
| Issue Date: 1/1/19 |
| Re-Issue: |



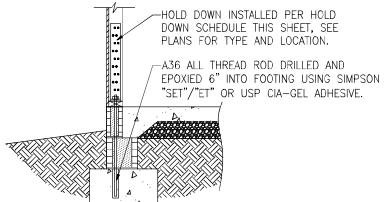
SD-1



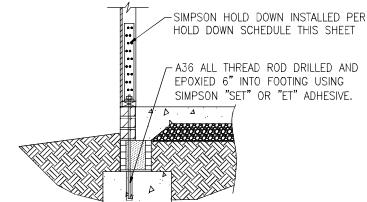
A TYPICAL HOLD DOWN DETAIL



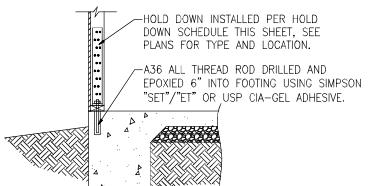
B TYPICAL HOLD DOWN DETAIL



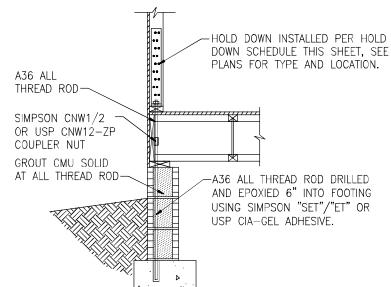
C HOLD DOWN AT STEMWALL SLAB FOUNDATION



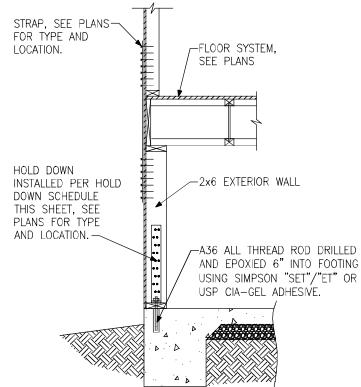
C HOLD DOWN AT STEMWALL SLAB



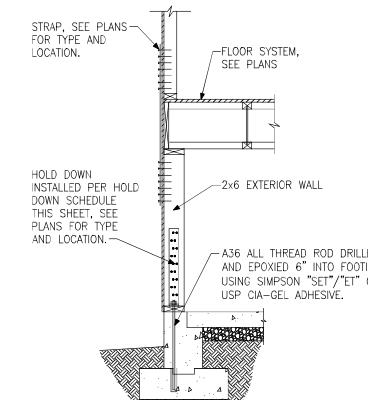
D HOLD DOWN AT MONOLITHIC SLAB FOUNDATION



E HOLD DOWN AT CRAWL SPACE FOUNDATION



F HOLD DOWN AT BASEMENT FOUNDATION
MONOLITHIC TURN-DOWN



G HOLD DOWN AT BASEMENT FOUNDATION
STEM WALL

| HOLD DOWN SCHEDULE | | | |
|--------------------|----------------|----------------------|-----------------------------------------|
| HOLD DOWN | ALL THREAD ROD | FASTENERS | |
| SIMPSON LTIP2 | N.A. | $\frac{1}{2}$ " DIA. | (12)0.148"x2 $\frac{1}{2}$ " LONG NAILS |
| HTT4 | HTT16 | $\frac{5}{8}$ " DIA. | (18)0.148"x2 $\frac{1}{2}$ " LONG NAILS |
| HTT5 | HTT45 | $\frac{5}{8}$ " DIA. | (26)0.148"x2 $\frac{1}{2}$ " LONG NAILS |

Hold Down Details

Up To 120 M.P.H.
North Carolina

| |
|-------------------------------------------------------------|
| Project #: 105-19000 |
| Designed By: KRK |
| Checked By: |
| Issue Date: 1/1/19 |
| Re-Issue: |
| NC Firm #G-2101 |
| SEAL DARROW ENGINEER ANDREW A. MCROBBIE 1/18/24 |
| Scale: 1/8"=1'-0" @ 11x17 1/4"=1'-0" @ 22x34 |

SD-2



DREAM FINDERS
HOMES



| BRACED WALL PANEL AND ENGINEERED SHEAR WALL SCHEDULE | | | |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------|-------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| PANEL TYPES | PANEL TYPE | MATERIAL | FASTENERS |
| WSP | INTERMITTENT WOOD STRUCTURAL PANEL | 7/16" OSB | 6D OR 8D COMMON NAILS AT 6" O.C. AT SHEET EDGES AND 12" O.C. AT INTERMEDIATE SUPPORTS. ENGINEERED ALTERNATIVE: 16 GAGE BY 1.75" LONG STAPLES AT 3" O.C. AT SHEET EDGES AND 6" O.C. AT INTERMEDIATE SUPPORTS. |
| GB(1) | INTERMITTENT GYPSUM BOARD (SHEATHING ONE FACE OF WALL) | 1/2" GYPSUM | 1.5" LONG GALV. ROOFING NAILS, 6d COMMON NAILS, OR 1.25" LONG TYPE W DRYWALL SCREWS AT 7" O.C. AT SHEET EDGES AND INTERMEDIATE SUPPORTS. |
| GB(1)-4 | INTERMITTENT GYPSUM BOARD (SHEATHING ONE FACE OF WALL) | 1/2" GYPSUM | 1.5" LONG GALV. ROOFING NAILS, 6d COMMON NAILS, OR 1.25" LONG TYPE W DRYWALL SCREWS AT 4" O.C. AT SHEET EDGES AND INTERMEDIATE SUPPORTS. |
| GB(2) | INTERMITTENT GYPSUM BOARD (SHEATHING BOTH FACES OF WALL) | 1/2" GYPSUM | 1.5" LONG GALV. ROOFING NAILS, 6d COMMON NAILS, OR 1.25" LONG TYPE W DRYWALL SCREWS AT 7" O.C. AT SHEET EDGES AND INTERMEDIATE SUPPORTS. |
| CS-WSP | CONTINUOUS SHEATHED WOOD STRUCTURAL PANEL | 7/16" OSB | 6D OR 8D COMMON NAILS AT 6" O.C. AT SHEET EDGES AND 12" O.C. AT INTERMEDIATE SUPPORTS. ENGINEERED ALTERNATIVE: 16 GAGE BY 1.75" LONG STAPLES AT 3" O.C. AT SHEET EDGES AND 6" O.C. AT INTERMEDIATE SUPPORTS. |
| CS-PF | CONTINUOUS SHEATHED PORTAL FRAME | 7/16" OSB | NAILING PER DETAIL |
| PFH | PORTAL FRAME WITH HOLD DOWNS | 7/16" OSB | NAILING PER DETAIL |
| CS-ESW(1) | ENGINEERED SHEAR WALL, TYPE 1 | 7/16" OSB | 8D COMMON NAILS AT 6" O.C. AT SHEET EDGES AND 12" O.C. AT INTERMEDIATE SUPPORTS. CONTINUOUS OSB AROUND DOOR/WINDOW OPENINGS. |
| CS-ESW(2) | ENGINEERED SHEAR WALL, TYPE 2 | 7/16" OSB | 8D COMMON NAILS AT 4" O.C. AT SHEET EDGES AND 12" O.C. AT INTERMEDIATE SUPPORTS. CONTINUOUS OSB AROUND DOOR/WINDOW OPENINGS. |
| CS-ESW(3) | ENGINEERED SHEAR WALL, TYPE 3 | 7/16" OSB | 8D COMMON NAILS AT 3" O.C. AT SHEET EDGES AND 12" O.C. AT INTERMEDIATE SUPPORTS. CONTINUOUS OSB AROUND DOOR/WINDOW OPENINGS. |
| BRACED WALL PANEL NOTES: | | | |
| 1. ALL BRACED WALL PANELS, EXCEPT GB(1) & GB(2), SHALL HAVE 2x BLOCKING BETWEEN WALL STUDS AT ALL HORIZONTAL SHEET EDGES. | | | |
| 2. PROVIDE NAILING/BLOCKING ABOVE AND BELOW ALL BRACED WALL PANELS PER KSE BRACED WALL DETAILS. | | | |
| 3. SHEATH ALL EXTERIOR WALLS OF THE HOUSE WITH $\frac{7}{16}$ " O.S.B., OR $\frac{15}{16}$ " PLYWOOD, FASTENED PER IRC. AT EXTERIOR CORNERS, SHEATHING SHALL BE FASTENED PER KSE BRACED WALL DETAILS. AT INTERIOR WALL INTERSECTIONS, FASTEN STUDS & WALL BRACING PER KSE BRACED WALL DETAILS. | | | |
| 4. BRACED WALL PANELS AND ENGINEERED SHEAR WALLS ARE PROVIDED PER IRC. PANEL LENGTHS SHOWN ON PLANS ARE THE MINIMUM LENGTH REQUIRED. | | | |

A METHOD CS-PF: CONTINUOUS PORTAL FRAME PANEL CONSTRUCTION ONE BRACED WALL SEGMENT

SECTION A-A

ALL FLOOR FRAMES - SEE PLAN

CONT. BEAM FULL LENGTH OF FRAME. SEE ELEVATION FOR SIZE (11/4" MIN DEPTH) AND TYPE (DIMENSIONAL LUMBER OR LVL)

EACH CONT. BEAM END INTO ADJACENT WALL. NAIL SPlices 8-16d NAILS PER SPLICE/LAP.

7/8" O.S.B. OR 15/16" PLYWOOD EXTERIOR WALL SHEATHING AT UNSHADEd AREAS (BEAM AND INFILL WALL). NAIL SHEATHING TO ALL SUPPORTS (STUDS, PLATES, BLOCKING, ETC.) WITH 8d NAILS AT 6" O.C. AT SHEET EDGES AND 12" O.C. IN THE FIELD.

"H" = FRAME HEIGHT VARIES - SEE ELEVATION

WHERE FULL HEIGHT PANEL WIDTH EXCEEDS 16", PROVIDE ADDITIONAL STUDS AT 16" O.C. NAIL SHEATHING TO ALL STUDS WITH 8d NAILS AT 3" O.C.

SIMPSON OR USP-LSTA21 WITH 16-10d NAILS AT FIRST STUD EACH SIDE OF OPENING

NO SILL AND CRIPPLE WALL AT BAY/DOOR

1" MIN THICK RIM BOARD OR LADDER TRUSS AT FLOOR

CONNECT RIM TO SOLE PLATE OF WALL WITH TWO SIMPSON LTP4 OR USP MPF4 EACH FULL HEIGHT PANEL

BASEMENT/CRAWL FOUNDATION OR 2ND FLOOR CONDITION

STEMWALL/MONOLITHIC SLAB FOUNDATION CONDITION

2x4 P.T. PLATE WITH (2) 1/2" DIA x 8" EMBED ANCHOR BOLTS EACH WITH A 3/8" x 2" PLATE WASHER

STEMWALL/MONOLITHIC SLAB FOUNDATION WALL

FOUNDATION

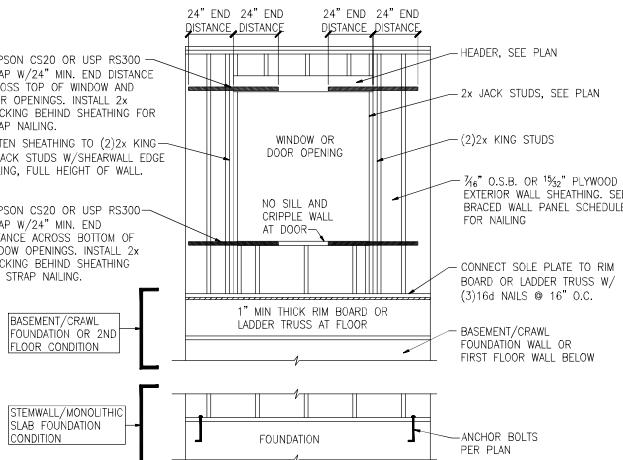
(2) ROWS 16d NAILS AT 3" O.C.

FOR A PANEL SPLICE (IF NEEDED), PANEL EDGES SHALL BE BLOCKED AND OCCUR WITHIN 24" OF MID HEIGHT. ONE ROW OF TYP. SHEATHING-TO-FRaming IS REQUIRED IN EACH PANEL

7/8" O.S.B. OR 15/16" PLYWOOD EXTERIOR WALL SHEATHING, AT SHADEd AREAS NAIL SHEATHING TO ALL SUPPORTS (STUDS, PLATES, BLOCKING, ETC.) WITH 8d NAILS AT 3" O.C.

(2)2x4 STUD MIN. AT START AND END OF WALL SEGMENTS EACH SIDE OF OPENING; IF PLANS CALL FOR MORE THAN TWO STUDS, PROVIDE NUMBER OF STUDS CALLED FOR ON PLAN.

B METHOD CS-PF: CONTINUOUS PORTAL FRAME PANEL CONSTRUCTION
TWO BRACED WALL SEGMENTS



C WINDOW OR DOOR REINFORCEMENT IN ENGINEERED SHEAR WALL
ONLY REQUIRED WHERE SPECIFIED ON PLANS

Braced Wall Notes & Details
Up To 120 M.P.H.
North Carolina

Project #: 105-19000
Designed By: KRK
Checked By:
Issue Date: 1/1/19
Re-Issue:
Scale: $1/8 = 1'-0"$ @ 11x17
 $1/4 = 1'-0"$ @ 22x34

SD-3

SD-3



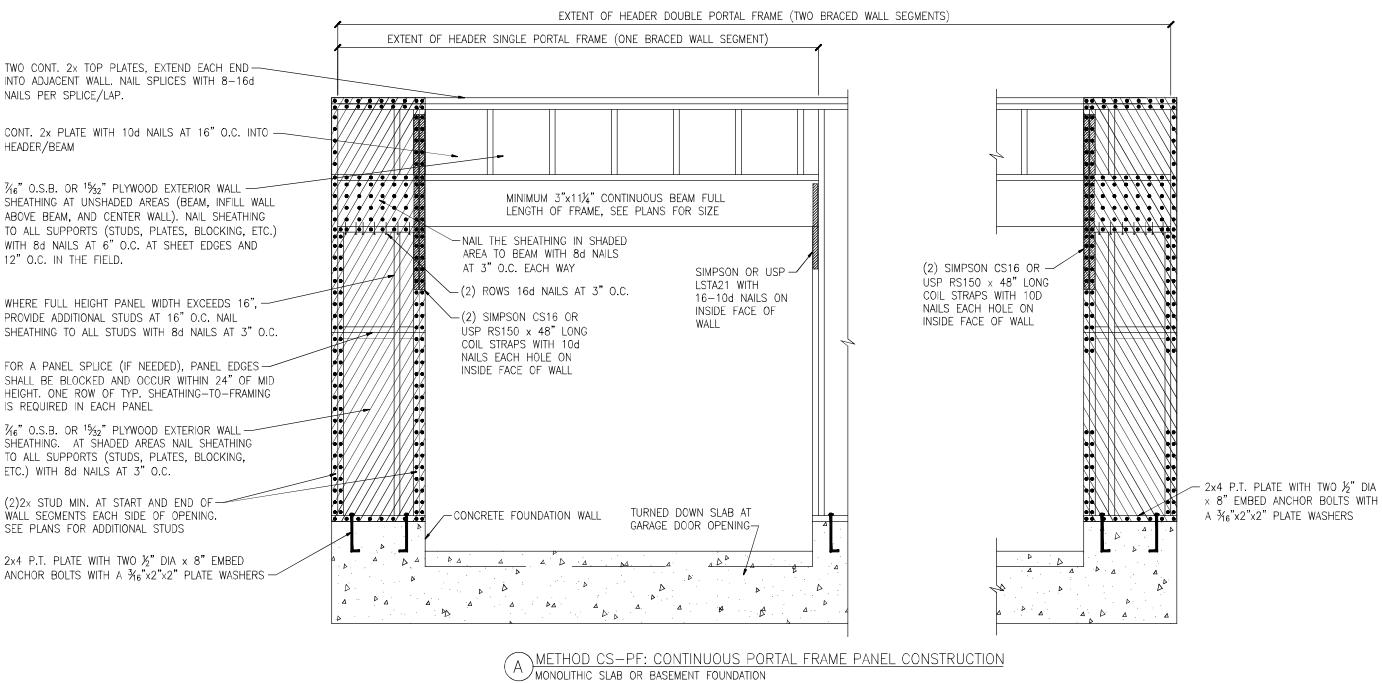
Portal Frame Details

Up To 120 M.P.H.
North Carolina

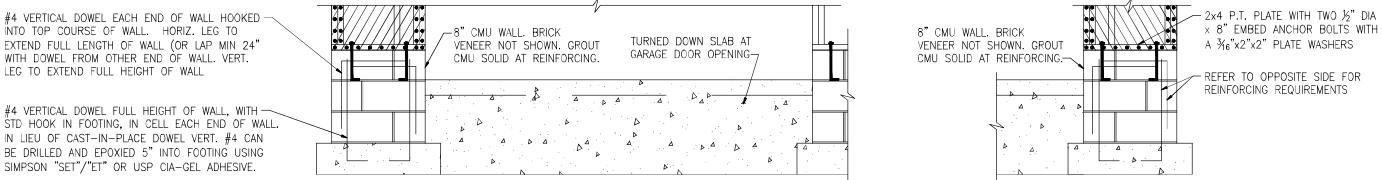
| | |
|--------------|-----------|
| Project #: | 105-19000 |
| Designed By: | KRK |
| Checked By: | |
| Issue Date: | 1/1/19 |
| Re-Issue: | |



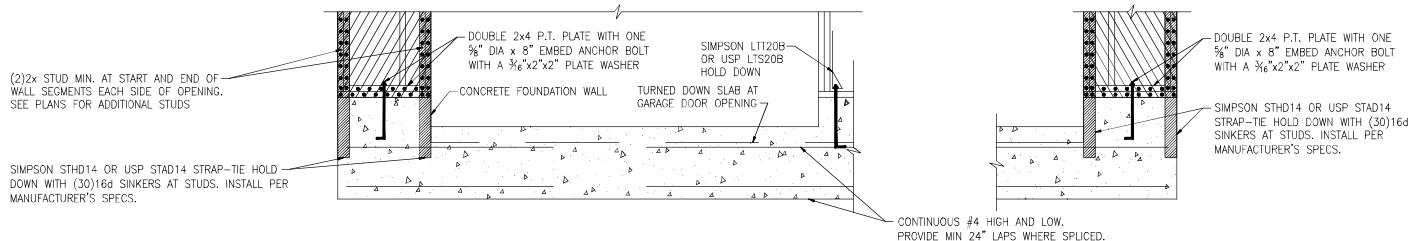
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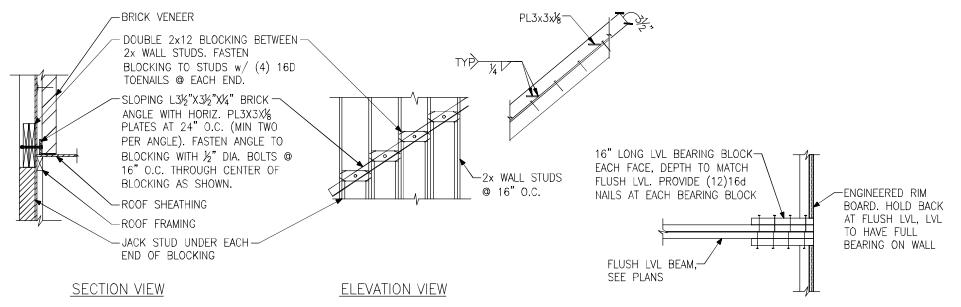
A METHOD CS-PF: CONTINUOUS PORTAL FRAME PANEL CONSTRUCTION
MONOLITHIC SLAB OR BASEMENT FOUNDATION



B METHOD CS-PF: CONTINUOUS PORTAL FRAME PANEL CONSTRUCTION
STEMWALL SLAB OR CRAWL SPACE FOUNDATION

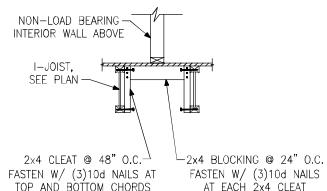


C METHOD PFH: PORTAL FRAME WITH HOLD-DOWNS
MONOLITHIC SLAB OR BASEMENT FOUNDATION

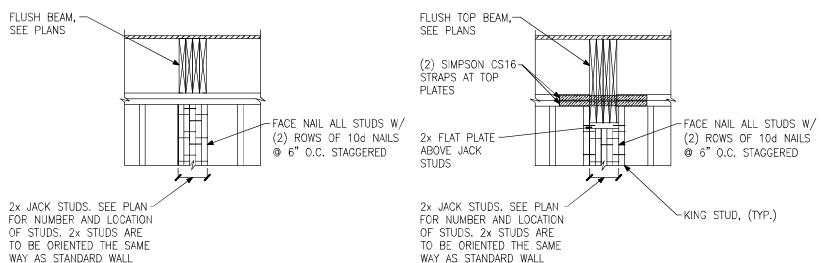
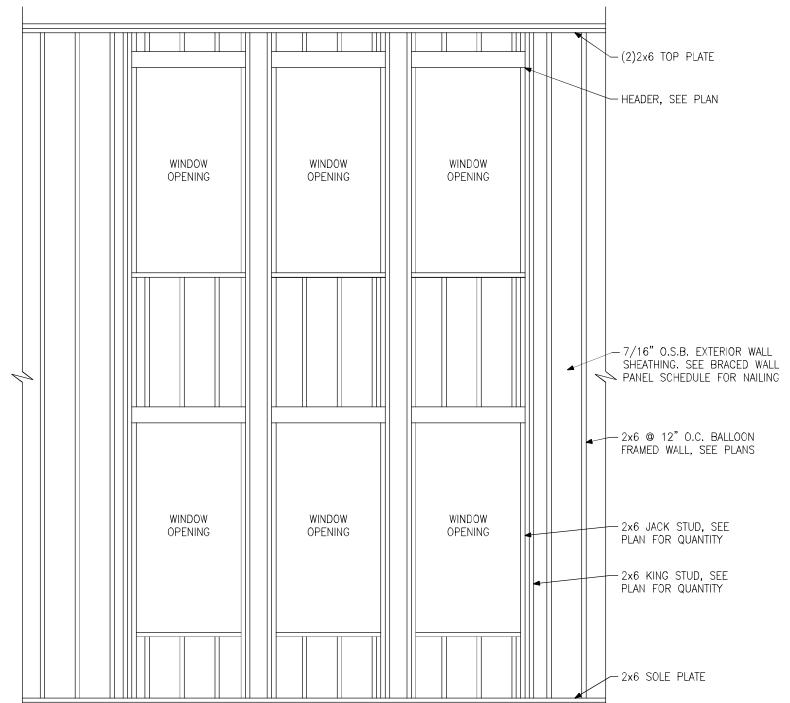


(A) BRICK LEDGER CONNECTION DETAIL

(B) BEARING ENHANCER
FLUSH LVL



(C) I-JOIST LADDER BLOCKING
AS REQUIRED @ PARALLEL WALLS



(E) BUILT-UP STUD DETAIL SUPPORTING BEAM

Miscellaneous Framing Details

Up To 120 M.P.H.
North Carolina





ENGINEERING

DREAM FINDERS HOMES

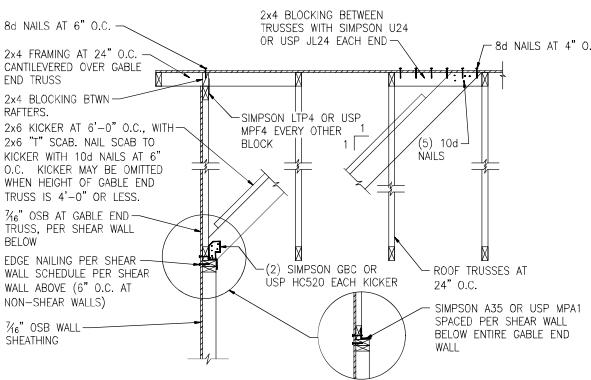
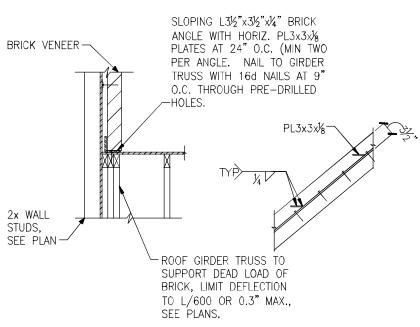
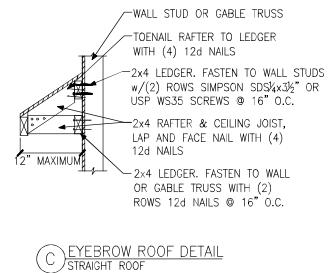
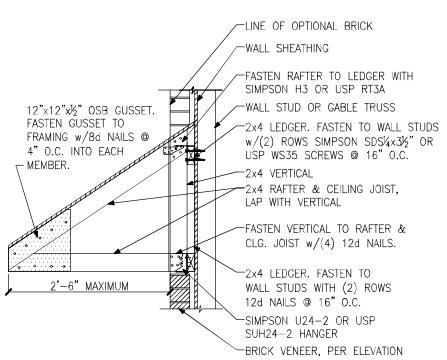
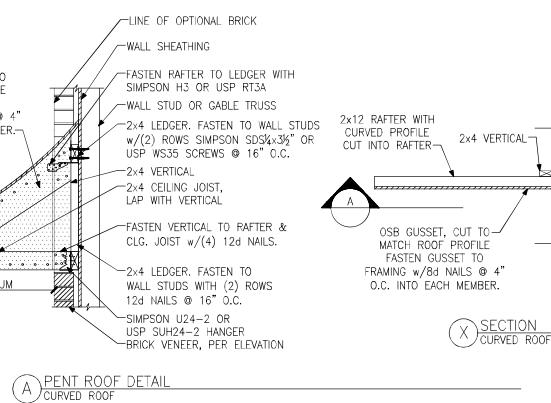
Miscellaneous Framing Details

Up To 120 M.P.H.
North Carolina

| | |
|--------------|-----------|
| Project #: | 105-19000 |
| Designed By: | KRK |
| Checked By: | |
| Issue Date: | 1/1/19 |
| Re-Issue: | |

Scale: 1/8"=1'-0" @ 11x17
1/4"=1'-0" @ 22x34
7/18/24

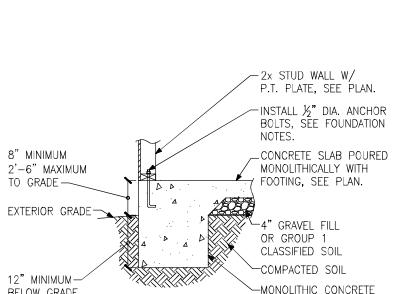
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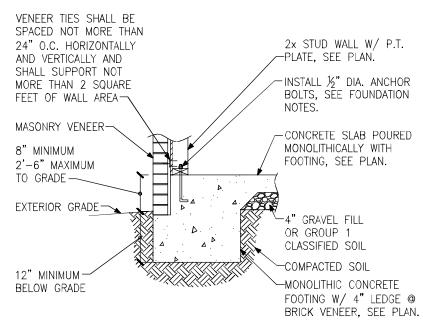


Monolithic Slab Foundation Details

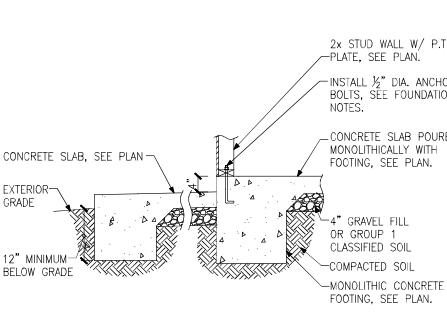
Up To 120 M.P.H.
North Carolina



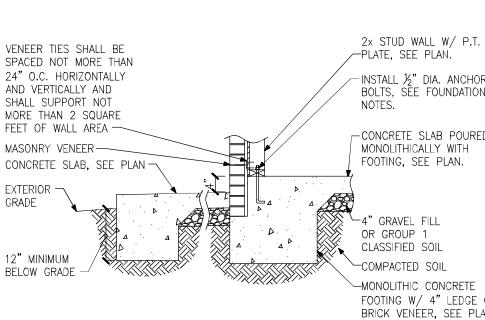
A FOUNDATION SECTION
EXTERIOR WALL



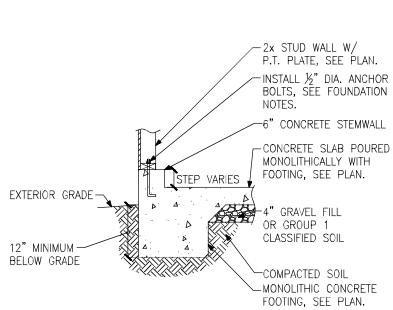
B FOUNDATION SECTION
EXTERIOR WALL @ MASONRY
VENEER



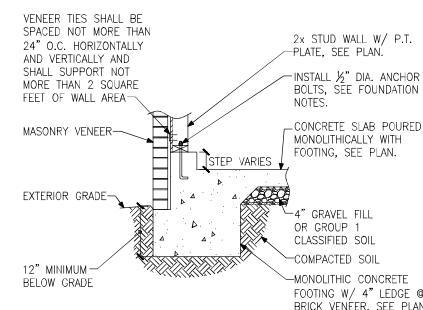
C FOUNDATION SECTION
EXTERIOR WALL AT PORCH



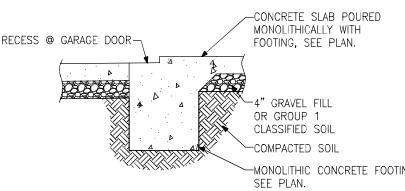
D FOUNDATION SECTION
EXTERIOR WALL AT PORCH W/ MASONRY
VENEER



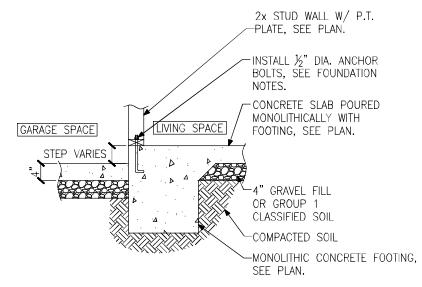
E FOUNDATION SECTION
EXTERIOR GARAGE WALL



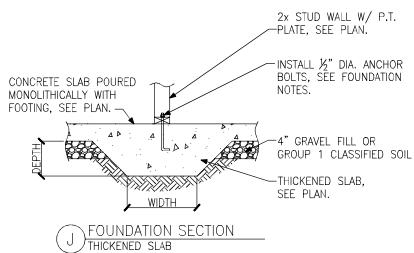
F FOUNDATION SECTION
EXTERIOR GARAGE WALL @ MASONRY
VENEER



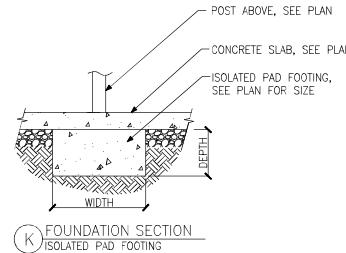
G FOUNDATION SECTION
GARAGE DOOR



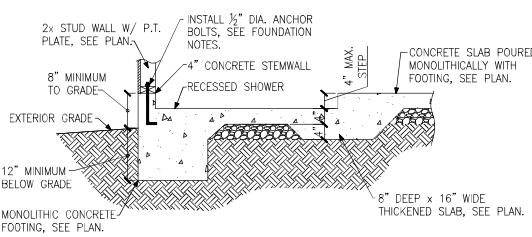
H FOUNDATION SECTION
INTERIOR GARAGE WALL



J FOUNDATION SECTION
THICKENED SLAB



K FOUNDATION SECTION
ISOLATED PAD FOOTING



L FOUNDATION SECTION
THICKENED SLAB @ RECESSED SHOWER

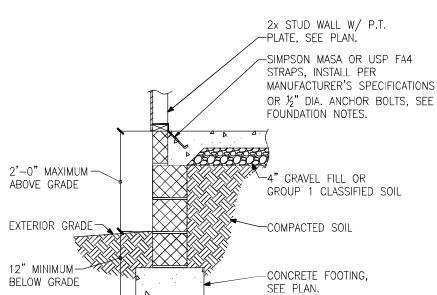
Project #: 105-19000
Designed By: KSE
Checked By:
Issue Date: 1/1/19
Re-Issue:
Scale: 1/8"=1'-0" @ 11x17
1/4"=1'-0" @ 22x34
NC Firm #G-2101
NORTH CAROLINA
PROFESSIONAL
ENGINEERS
AND
LANDSCAPE
ARCHITECTS
SEAL
DASSE
ENGINEERS
AND
LANDSCAPE
ARCHITECTS
Andrew A. Morris
1/18/24

SD-7

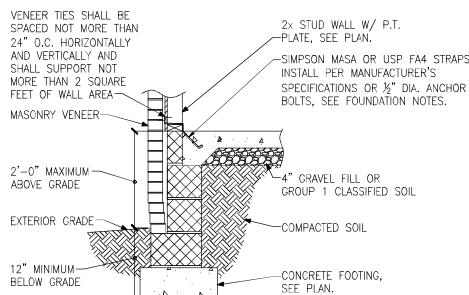


Stem Wall Slab Foundation Details

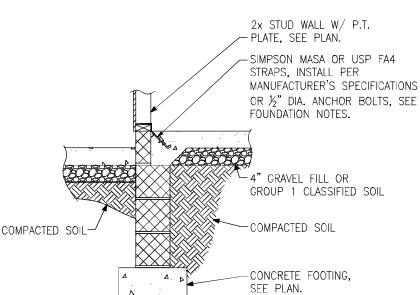
Up To 120 M.P.H.
North Carolina



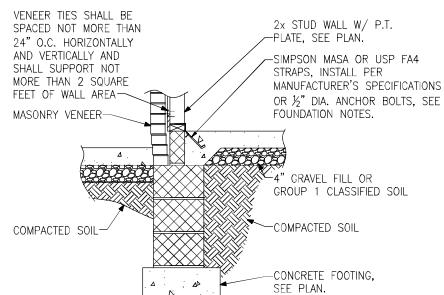
A FOUNDATION SECTION
EXTERIOR WALL



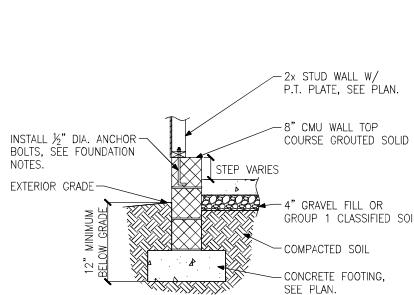
B FOUNDATION SECTION
EXTERIOR WALL @ MASONRY VENEER



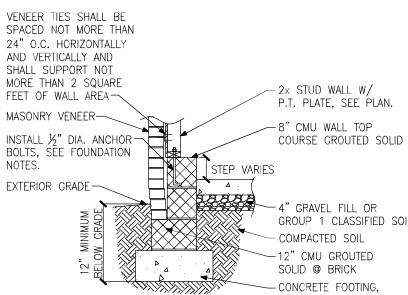
C FOUNDATION SECTION
EXTERIOR WALL AT PORCH



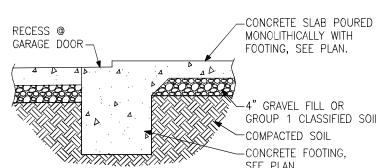
D FOUNDATION SECTION
EXTERIOR WALL AT PORCH W/ MASONRY VENEER



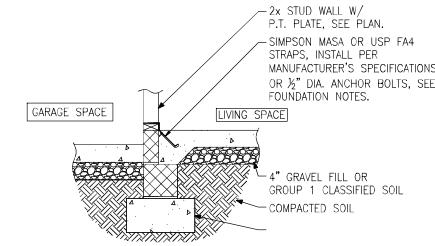
E FOUNDATION SECTION
EXTERIOR GARAGE WALL



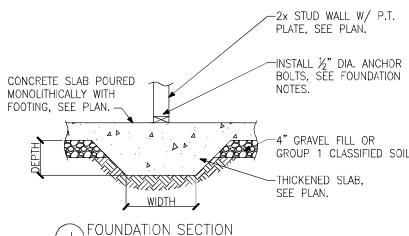
F FOUNDATION SECTION
EXTERIOR GARAGE WALL @ MASONRY VENEER



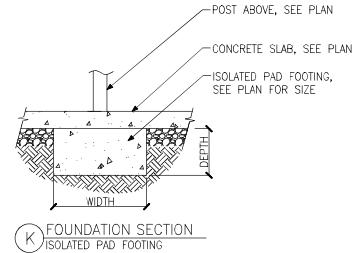
G FOUNDATION SECTION
GARAGE DOOR



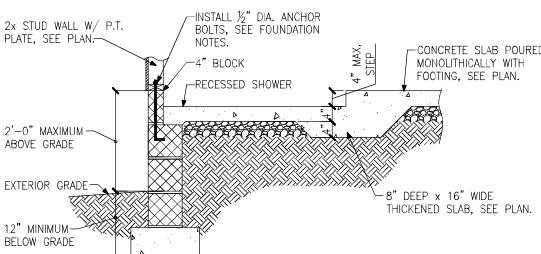
H FOUNDATION SECTION
INTERIOR GARAGE WALL



J FOUNDATION SECTION
THICKENED SLAB

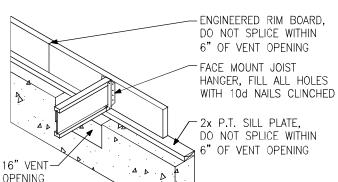
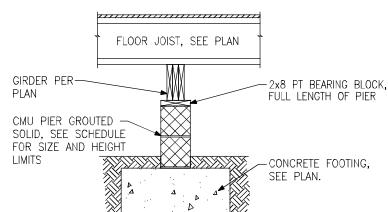
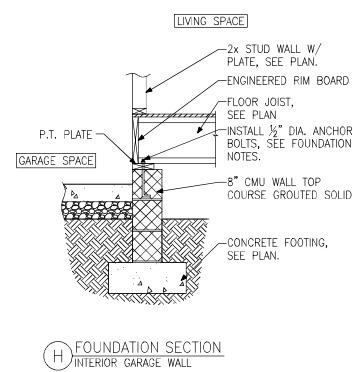
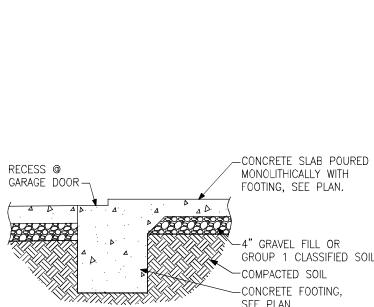
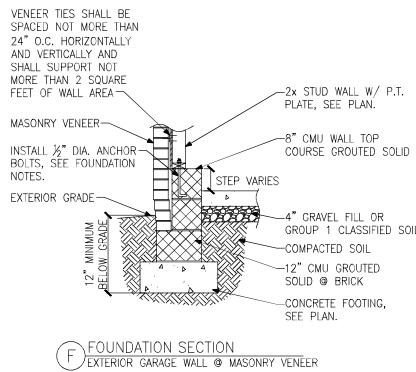
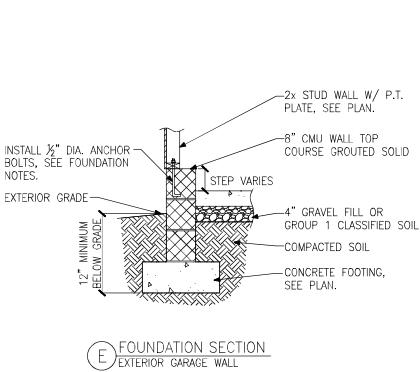
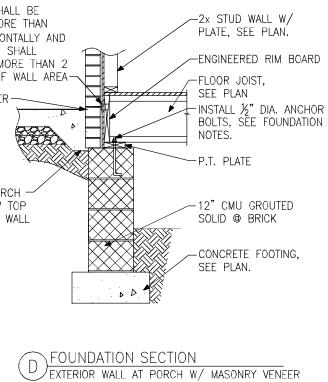
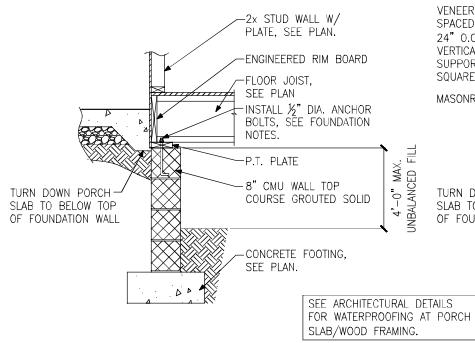
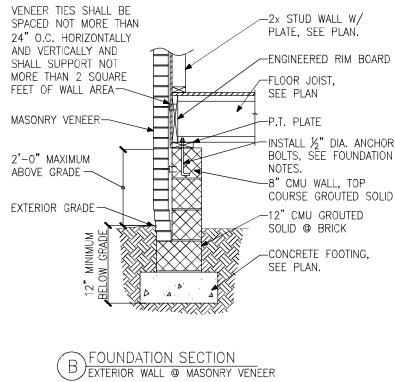
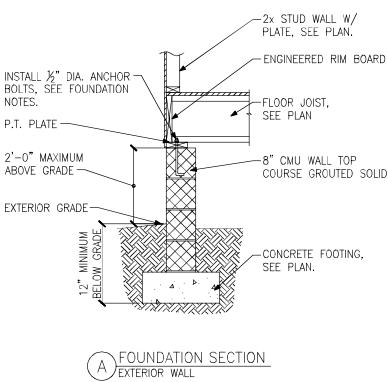


K FOUNDATION SECTION
ISOLATED PAD FOOTING



L FOUNDATION SECTION
THICKENED SLAB @ RECESSED SHOWER





| PIER HEIGHT | PIER SIZE | MIN. FOOTING SIZE |
|-------------------------------------------------------------------------------------------------------------|-----------|------------------------|
| UP TO 2'-8" | 8" x 16" | 24" x 24" x 12" U.N.O. |
| UP TO 5'-4" | 16" x 16" | 24" x 24" x 12" U.N.O. |
| UP TO 8'-0" | 16" x 16" | 30" x 30" x 12" U.N.O. |
| NOTE: | | |
| PIERS SHALL BE CAPPED WITH 8" OF SOLID MASONRY OR CONCRETE OR TOP COURSE FILLED SOLID WITH CONCRETE/MORTAR. | | |
| PIERS OVER 5'-4" SHALL BE FILLED SOLIDLY WITH CONCRETE OR TYPE M OR S MORTAR. | | |
| FOR PIERS OVER 8'-0" CONTACT KSE ENGINEERING FOR PIER AND FOOTING DESIGN. | | |

Crawl Space Foundation Details
Up To 120 M.P.H.
North Carolina

Project #: 105-19000
Designed By: KSE
Checked By:
Issue Date: 1/1/19
Re-Issue:
Scale: 1/8"=1'-0" @ 11x17
1/4"=1'-0" @ 22x34
NC Firm #G-2101
1/18/24



SD-9