COLLEX460INVENTORYMARKEDPLAN

CARDINAL

CARDINAL REVISION LIST - STRUCTURAL:

1.) CODE UPDATE TO 2018 NCRC (1-19)

2.) CALLED OUT I-JOIST SERIES/SPACING SECOND FLOOR FRAMING AND CRAWL. ADDED EXTRA JOISTS (1-19)

3.) CHANGED FLOOR JOIST LAYOUT OVER TO GARAGE TO 14" JOISTS IN LIEU OF 16" JOISTS (1-19)

4.) (2) 2 x 6 HEADERS WHERE APPLICABLE (1-19)

5.) 2 x 6 GARAGE WING WALLS AND (3) PLY HEADERS (1-19)

6.) DSP's to TSP's (1-19)

CARDINAL REVISION LIST - ARCHITECTURAL:

- I. CHANGED FRONT LOAD GARAGE DOOR EXTERIOR WALL AND NOTE TO REFLECT 2X6 WALL IN LIEU OF 2X4 WALL (11-18)
- 2. ADDED CLOSET SHELVING NOTES. (11-18)
- 3. ADDED LIGHT TO STAIRS SHEETS E-1 AND E-2 (11-18)
- 4. CHANGED ALL DOUBLE STUD POCKETS BETWEEN WINDOWS TO TRIPLE STUD POCKETS (11-18)
- 5. REMOVED ALL BRICK FRONT ELEVATIONS FROM ELEVATION OPTION SHEETS (11-18)
- 5. ADDED ONE CAR GARAGE OPTION AND WRAP PORCH OPTION TO ELEVATION OPTION SHEETS (11-18)
- 7. CHANGED GARAGE DOOR INSERTS FROM STOCKTON 2 TO STOCKTON 3 ON ALL "B" ELEVATIONS. (11-18)
- CHANGED SIDING NOTES TO SPECIFY FIBER CEMENT SIDING ON A-4, B-4 AND C-4 ELEVATIONS. (11-18)
- 9. UPDATED FLOOR PLAN "WALL NOTES" (11-18)
- 10. MADE FIREPLACE AN OPTION AND MADE SINGLE WINDOW IN SAME LOCATION STANDARD (11-18)
- 11. UPDATED CUTSHEETS TO NEW FORMAT (11-18)

CHANGES ON 10:01-22

- 12. ADDED OPTIONAL 3/0 5/0 WINDOW TO SIDE OF HOUSE IN DINING ROOM
- 13. ADDED OPTIONAL DOUBLE OVEN TO KITCHEN FOR "GOURMET KITCHEN"

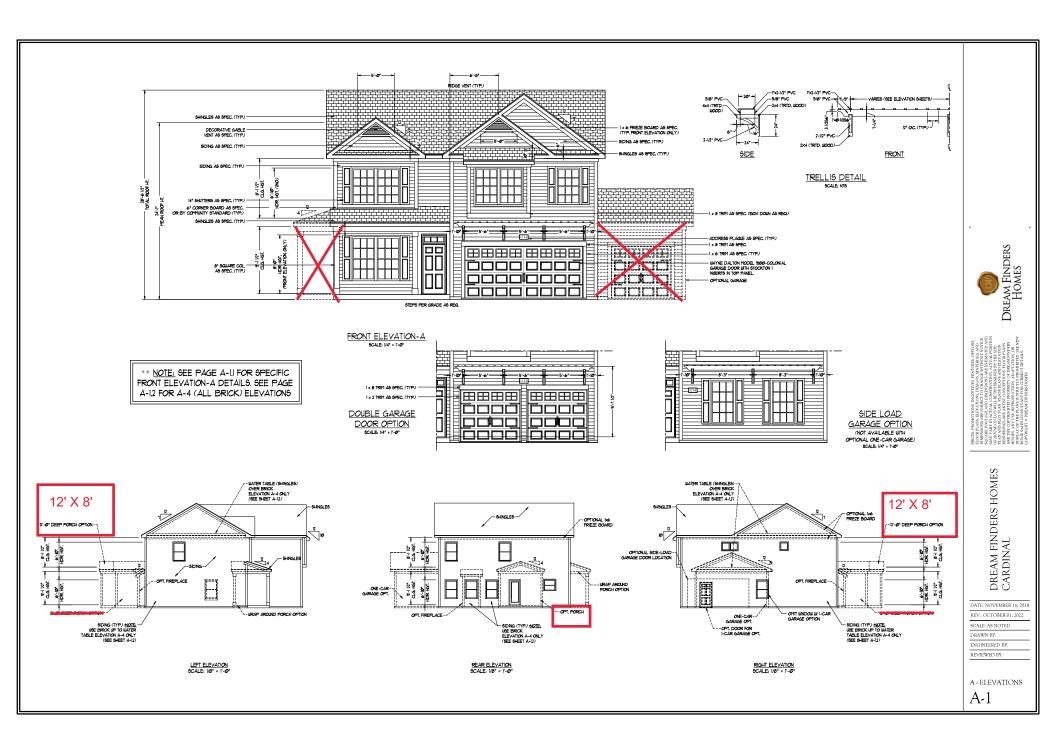
CHANGES ON 10-26-22

- 14. REMOVE CLOSET FROM FOYER
- 15. ROTATE POWDER AND PANTRY
- 16. MOVE DOOR IN KITCHEN, REMOVE ADJACENT 3/0 x 3/0 WINDOW
- 17. EXTEND THE KITCHEN COUNTERTOP AND LARGER ISLAND OPTION

TE: 11-16-18

DRAWN BY: ENGINEERED BY:

CS



SCALE: AS NOTED DRAWN BY:

ENGINEERED BY:

A - ELEVATION OPTIONS

A-1.1

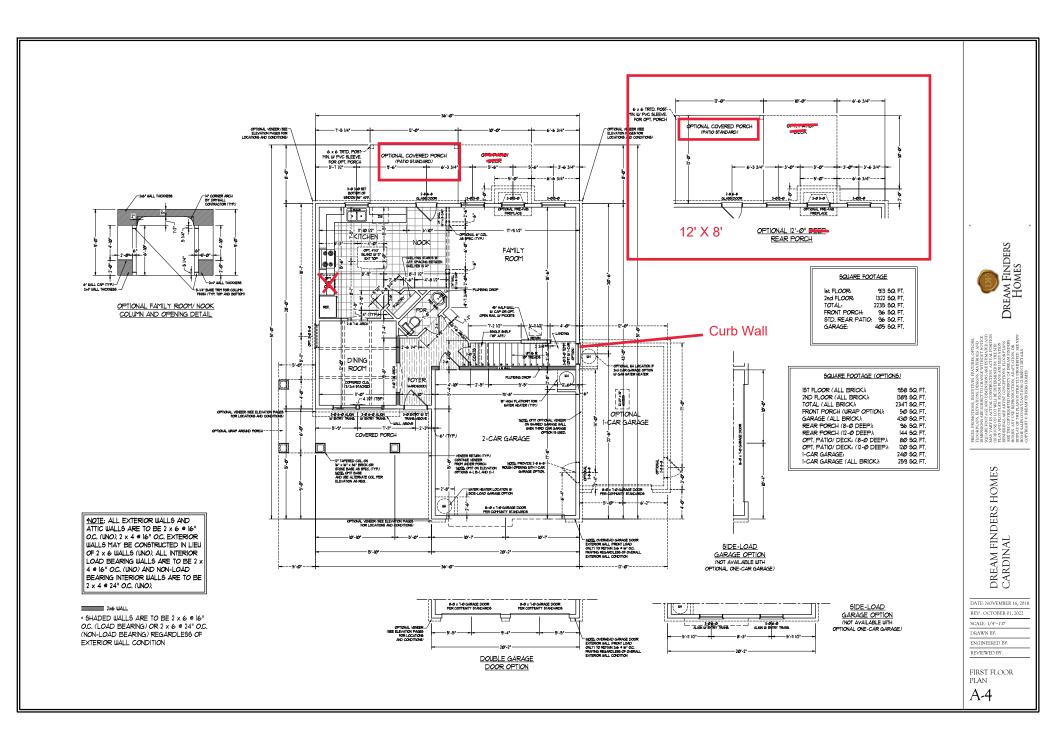






FRONT ELEVATION-A-3

SCALE 1/4" = 1'-Ø"



DREAM FINDERS HOMES CARDINAL

DATE: NOVEMBER 16, 2018

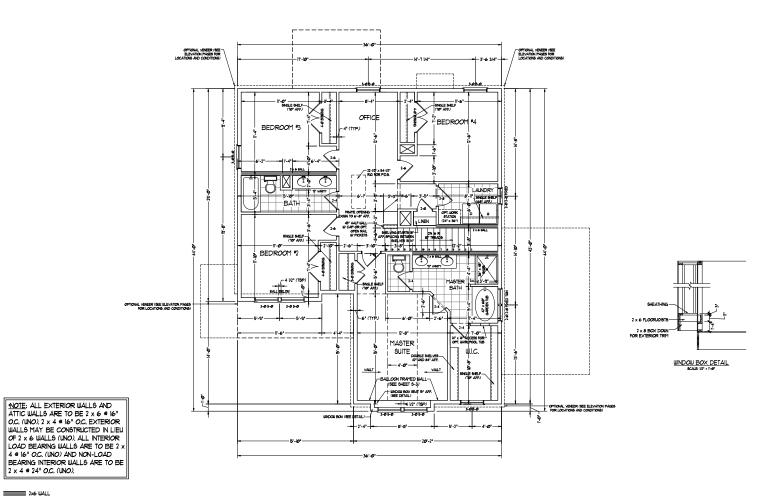
REV:: OCTOBER 01, 2022 SCALE: 1/4"-1'-0"

DRAWN BY: ENGINEERED BY:

REVIEWED BY:

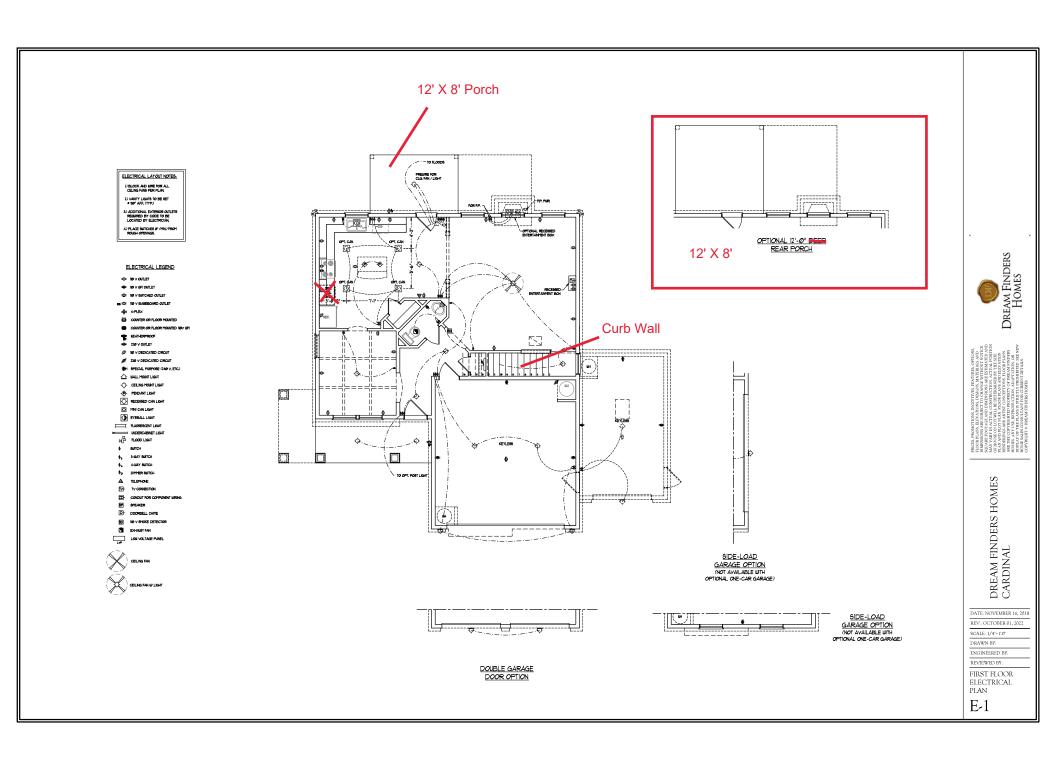
SECOND FLOOR PLAN

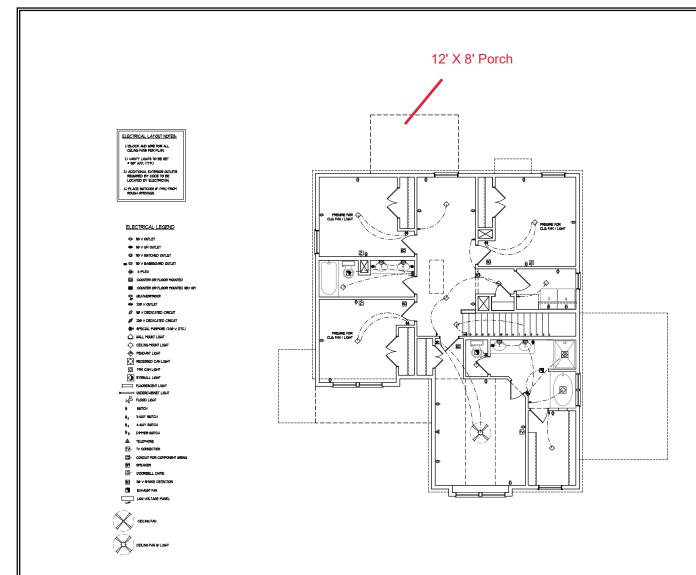
A-5



2x6 WALL

* SHADED WALLS ARE TO BE 2 x 6 @ 16" O.C. (LOAD BEARING) OR 2 x 6 @ 24" O.C. (NON-LOAD BEARING) REGARDLESS OF EXTERIOR WALL CONDITION





DREAM FINDERS HOMES

A WARRY OF A STANDARD STANDARD

DREAM FINDERS HOMES CARDINAL

DATE: NOVEMBER 16, 2018 REV:: OCTOBER 01, 2022

SCALE: 1/4"-1'0"

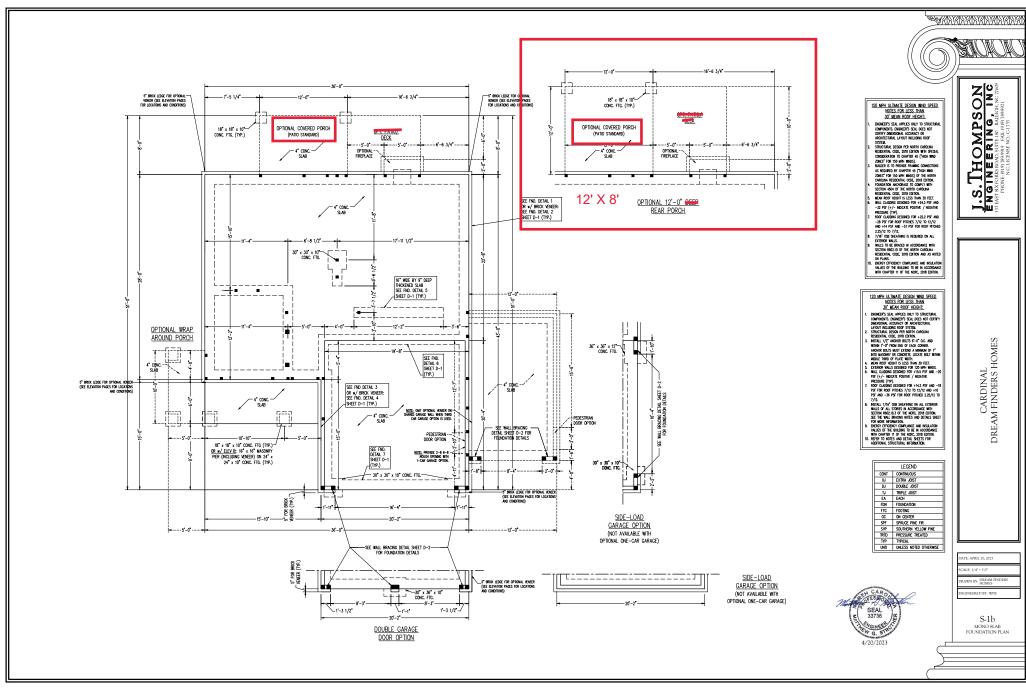
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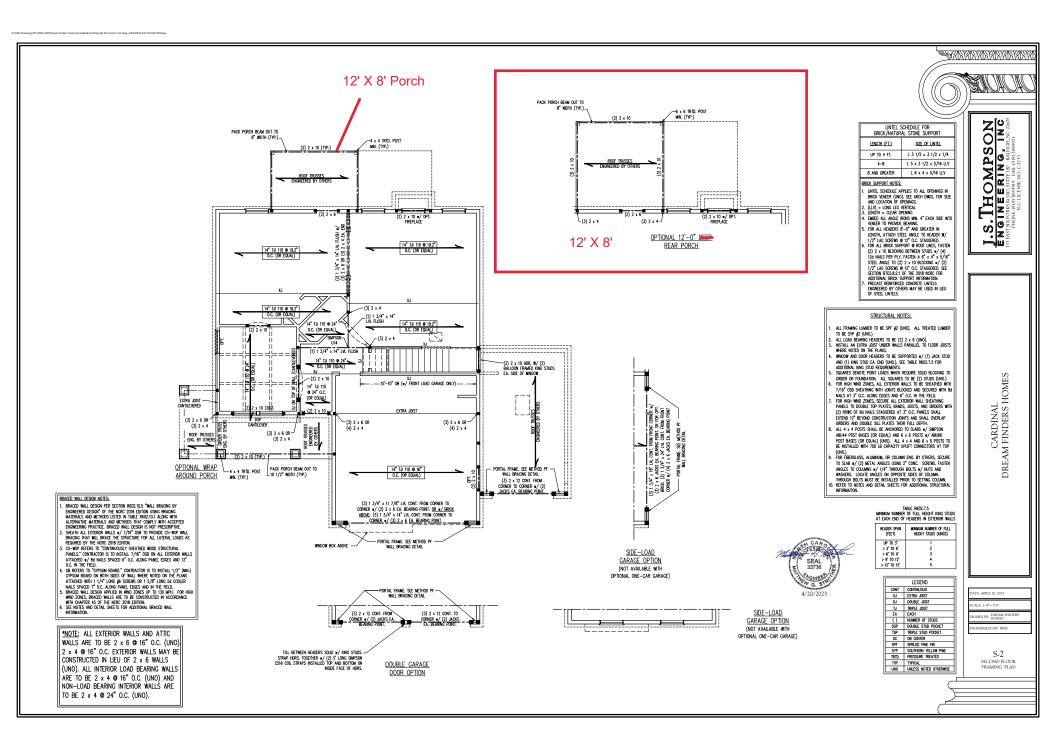
ENGINEERED BY:

REVIEWED BY:

SECOND FLOOR ELECTRICAL PLAN

E-2





SEE WINDOW BOX DETAIL

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

WINDOW BOX DETAIL INSTALL CONT. 7/16" OSB SHEATHING ON-OUTSIDE OF BRACED WALLS. ATTACH OSB WITH 8d NAILS 4" O.C. ALONG EDGES AND 8" O.C. IN THE FIELD. INSTALL SIMPSON L70 CORNER BRACKETS 24" O.C. IN CORNERS. 2 x 6 FLOOR JOISTS &-16* O.C. SHEATHING TO COVER JOISTS AS WELL FRAME DOWN PER DETAIL ON SECOND-FLOOR ARCHITECTURAL SHEET.

BRACED WALL DESIGN NOTES:

BRACE WALL DESIGN NOTES.

1. BRACE WALL DESIGN NOTES.

1. BRACE WALL DESIGN FOR SECTION RIGOZIO.5 "WALL BRACING BY DOMERED BESTO," O' THE KINCE JOIN EDITION USING BRACING WALL BRACE WAS A WITHOUT BRACE WAS A WALL BRACE WALL BRACE WAS A WALL BRACE WAS A WALL BRACE WALL BRACE WAS A WALL BRACE WALL BRACE WAS A WALL BRACE WALL BRACE WAS A WALL BRACE WAS A WALL BRACE WAS A WALL BRACE WALL BRACE WAS A WALL BRACE WAS

| LINTEL SCHEDULE FOR BRICK/NATURAL STONE SUPPORT | | | STRUCTUR |
|--|--|---|---|
| | | _ | CONTRACTOR OF THE PARTY OF THE |

| UMSIH (FI.) | SIZE OF LINIEL |
|---------------|------------------------|
| 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 5/16 LLV |
| | |

BRICK SUPPORT NOTES:

BRICK SHEDULE APPLIES TO ALL OPENINGS IN BRICK YEAEER (UNO). SEE ARCH DWGS. FOR SIZE AND LOCATION OF OPENINGS. (LLY) = LONG LEG VERTICAL 3. LENGTH = CLEAR OPENING

A LINGH - GLEAR OPENING - PAPER - PAPE

RAL NOTES:

- ALL TRANSPOLITIONS TO RES 59° (2) (100). ALL TRANSPOLITIONS TO RES 59° (2) (100). ALL TRANSPOLITIONS TO RES 59° (2) (100). ALL TORRESTOR RESURES TO RE (2) 2 ± 6 (100). AND LOOK SHOW AND (1) WARP STOLE ALL TORRESTOR TO RESURES TO RESURE TO RESUR

TABLE R602.7.5
MINIMUM NUMBER OF FULL HEIGHT KING STUDS
AT EACH END OF HEADERS IN EXTERIOR WALLS

| HEADER SPAN (FEET) | MINIMUM NUMBER OF FULL HEIGHT STUDS (KINGS) |
|-----------------------|--|
| UP TO 3" | 1 |
| > 3' 10 6' | 2 |
| > 6' TO 9' | 3 |
| > 9' TO 12' | 4 |
| > 12' TO 15' | 5 |

| | LEGEND |
|------|------------------------|
| CONT | CONTINUOUS |
| XT | EXTRA TRUSS |
| TS | TRUSS SUPPORT |
| EA | EACH |
| () | NUMBER OF STUDS |
| DSP | DOUBLE STUD POCKET |
| TSP | TRIPLE STUD POCKET |
| OC. | ON CENTER |
| SPF | SPRUCE PINE FIR |
| SYP | SOUTHERN YELLOW PINE |
| TRTD | PRESSURE TREATED |
| TYP | TYPICAL |
| UNO | UNLESS NOTED OTHERWISE |



TE: APRIL 20, 2023 RAWN BY: DREAM HNDERS GINEERED BY: WFB

CARDINAL DREAM FINDERS HOMES

S-3 ATTIC FLOOR FRAMING PLAN

HOMPSON
NEERING, INC
RERING, INC
REPRING, INC
REPRING, INC
REPRING
RAGION
RAGIO U 🖁

FIREPLACE OPTION

GROER TRUSS ENGINEERED BY OTHERS

2 x 6 RAFTERS 9 16" O.C.

HIP CUPS FOR ELEV.--C ONLY (TYP.)

GROER TRUSS ENGINEERED BY OTHERS

ROOF TRUSSES ENGINEERED BY OTHERS



BRICK SUPPORT NOTE:

~-12'-0" DEEP PORCH OPTION

<u>12'-0" D€€₽ REAR</u> PORCH OPTION SCALE: 1/4" = 1'-0"

12' X 8'

--HIP CLIPS FOR ELEV. C ONLY (TYP.)

--HIP CLIPS FOR ELEV. C ONLY (TYP.)

12" O.H. (T/P.) INCREASE O.H. TO--17" W/ VENEER

~-2 x 6 RAFTERS • 16" O.C.

BRICK_SUPPORT NOTE:

1. FASTIN (2) 2 to BOOGNIN SETTEMS NALL
SUDS y (4) 124 NALS PER PLY, FASTIN A 6"
x" x 5/6" SEE AMAGE TO (2) x 100
BOOGNIG y (2) 1/2" LIG SERVES 0 12" CHE
2018 NECE FOR ACCITIONAL BOOK SEPPORT
ROBARION CONTROL STATE A 1" CHE
2018 NECE FOR ACCITIONAL BOOK SEPPORT
ROBARIONAL DESPONSIONAL 71. SERVEL 3"
x HERE BOOK STEED 71. RESILL 3"
x HERE BOOK STEED 71. RESILL

STRUCTURAL NOTES:

SIRUCTURAL NOTES.

ALL FRANKE LIBERT DIS E'S ST (IMO).

GROES BENDE (1) 2 x 4 POSTS FOR ROOF

FRANKE DOMER WALLS ON THE OF DURBLE OR

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8"-0". FASTEN MEMBERS WITH THERE ROWS OF

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6"(6) 1"20 FOR NAILS.

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FOR MEMBERS OF THE ORD MEMOLING

6"(6) 1"20 FOR NAILS.

GETTER DISCISION MEMOLING AT RAFTERS

ARETER DISCISION MEMOLING. IT STETCHE

ADDITIONAL STRUCTURAL NETWORKS.

NOTE: REFER TO ARCHITECTURAL DRAWNOS FOR ROOF PITCHES, PLATE HEIGHTS, DIMENSIONS, OVERHANG WIDTHS, AND ATTIC VENT CALCS.

| | LEGEND |
|------|------------------------|
| XT | EXTRA TRUSS |
| TS | TRUSS SUPPORT |
| XR | EXTRA RAFTER |
| RS | RAFTER SUPPORT |
| CONT | CONTINUOUS |
| EA | EACH |
| OC. | ON CENTER |
| SPF | SPRUCE PINE FIR |
| SYP | SOUTHERN YELLOW PINE |
| TYP | TYPICAL |
| UNO | UNLESS NOTED OTHERWISE |

ATE: APRIL 20, 2023

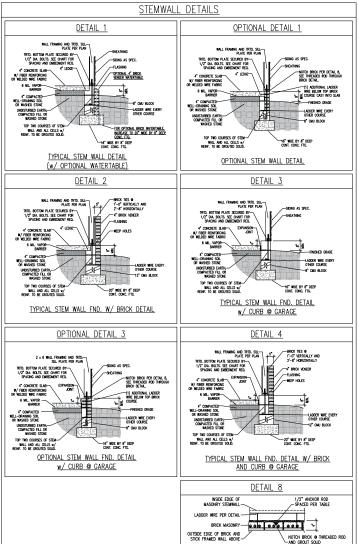
GINEERED BY: WFB

CARDINAL DREAM FINDERS HOMES

S-4 ROOF FRAMING PLAN







MONOLITHIC SLAB DETAILS

DETAIL 2

1-4

1'-4"

GARAGE CURB BRICK LEDGE DETAIL

DETAIL 6

6 1-0 6 6

STEP IN GARAGE DETAIL

2-8 HOMEONIALT 4 BROCK VENEER

FLASHING

VEEP HOLES

G

5 LEDGE

To §

BRICK VENEER DETAIL

DETAIL 4

TRTD. BOTTOM PLATE SECURED BY— 1/2" DIA. BOLTS. SEE CHART FOR SPACING AND EMBEDMENT REQ.

4" CONCRETE SLAB-

UNDISTURBED EARTH, COMPACTED— FILL OR WASHED STONE

COMPACTED WELL-DRAWING-

ANDISTURBED EARTH, COMPACTED—

TRTD. BOTTOM PLATE SECURED BY-1/2" DIA. BOLTS. SEE CHART FOR SPACING AND EMBEDMENT REQ.

4" CONCRETE SLAB W/ FIBER REINFORCING OR WELDED WIRE FABRIC

DETAIL 1

TYPICAL SLAB DETAIL

DETAIL 3

-SDNC AS SPEC.

WALL FRAMING AND TRID. SILL— PLATE PER PLAN

GARAGE CURB DETAIL

DETAIL 5

5" PER PLAN 5"

THICKENED SLAB DETAIL

DETAIL 7

1-4

SLAB AT GARAGE DOOR DETAIL

SLOPE SLAB 1/8

WALL FRAMING AND TRTD. SILL— PLATE PER PLAN

4" CONCRETE SLAB-

" CONCRETE SLAR-

6 ML VAPOR BARRIER

UNDISTURBED EARTH, COMPACTED—

4" CONCRETE SLAR-

6 ML VAPOR BARRIER

4" COMPACTED WELL-DRAINING

SOIL OR WASHED STONE

COMPACTED WELL-DRAINING-SOIL OR WASHED STONE

| 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 | | | |

- WALL HEIGHT MEASURED FROM TOP OF FOOTING TO TOP OF THE WALL.
 TIE MULTPLE WYTHES TOGSTHER WITH LADGER WIRE AT 16" O.C. VERTICALLY.
 CHART APPLICABLE FOR HOUSE FOUNDATION ONLY, CONSULT ENGINEER FOR DESIGN OF GARAGE
 FOUNDATION NOT COMMON TO HOUSE.
- FOUNDATION HOT COMMON TO HOUSE.

 BOCKFILL OF CAMEN TO HOUSE SAME IS TONE IS ALLOWABLE.

 BOCKFILL OF WILL BRANDED OR SAME GRAVE, MOTHER SOLS (45 PS*/FT BELOW GRADE) CLASSIFIED AS GROUP I ACCORDANCE WITH JEBUS PHÁSAL OF THE 2018 INTERNATIONAL RESIDENTIAL CODE ARE ALLOWABLE.

 FOR THE 2018 INTERNATIONAL RESIDENTIAL CODE ARE ALLOWABLE.

 FOR SALE PARE BREAKEL AND RESIDES, 24 ARE OF THE 2018 INTERNATIONAL RESIDENTIAL CODE.

- MINIOU 2'C 10°S SUICE LINENT .

 UCOLAR ERBAR IN CENTER OF FOUNDATION WALL

 UCOLAR ERBAR IN CENTER OF FOUNDATION WALL

 URBAR ERQUIRED, FULL BLOCK SOLUD WITH TYPE "S" MORTAR OR 3000 PSI GROUT, USE OF "LOW LIFT

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

| ANCHOR SPACING AND | EMBEDMENT |
|---|---|
| 120 MPH | 130 MPH |
| 6'-0" O.C. Install Min. (2) Anchors per Plate Section and (1) Anchor Within 12" of Corners | 4'-0" O.C. Install Min. (2) Anchors Per Plate Section and (1) Anchor Within 12" of Corners |
| ブ | 15" INTO MASONRY 7" INTO CONCRETE |
| | 120 MPH 6'-0" O.C. INSTALL MN. (2) ANCHORS PER PLATE SECTION AND (1) ANCHOR |

NOTE:

THREADED ROD THROUGH BRICK MASONRY

Threaded roo with epoxy, smpson titen HD, or approved anchors spaced as required to provide equivalent anchorage to $1/2^{\circ}$ diameter anchor bolts may be used in Lieu of $1/2^{\circ}$ anchor bolts.



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DATE: NOVEMBER 28, 2022 RAWN BY: JST ENGINEERED BY: JST

FOUNDATION DETAILS



OKNEERED BY IST

D-2 BRACED WALL NOTES AND DETAILS AND PF DETAIL

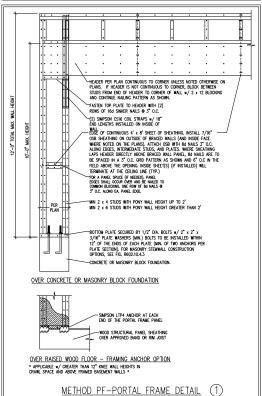
GENERAL WALL BRACING NOTES:

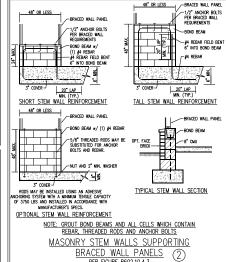
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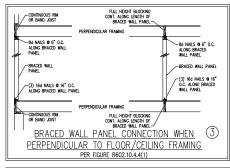
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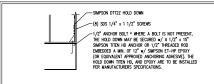
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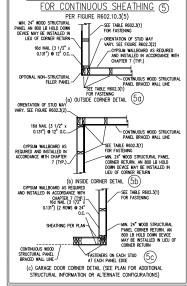




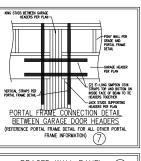


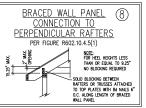
HOLD DOWN DETAIL FOR MASONRY FOUNDATION OR MONOLITHIC SLAB

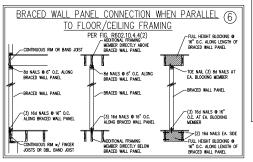
* APPLICABLE ONLY WHERE SPECIFIED ON PLAN *

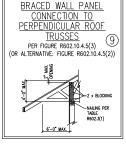


TYPICAL EXTERIOR CORNER FRAMING









is sealed more is to be used in conjunction with a full plan set envineered by L ns season page is to be used in conjunction with a tou jurn set engineered by j.

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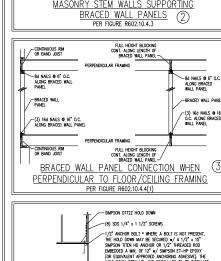
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ATE: JUNE 17, 2022

CONSERED BY IST

S-0 STRUCTURAL NOTES

GENERAL NOTES

- ENGINEER'S SEAL APPLIES ONLY TO STRUCTURAL COMPONENTS INCLUDING ROOF RAFTERS, HIPS, VALLEYS, RIDGES, FLOORS, WALLS, BEAMS, HEADERS, COLUMNS, CANTILEVERS, OFFSET LOAD BEARING WALLS, PIERS, GROER SYSTEM AND FOOTING. ENGINEER'S SEAL DOES NOT CRITIFY DIMENSIONAL ACCURACY OF ARCHITECTURAL LAYOUT INCLUDING ROOF. ENGINEER'S SEAL DOES NOT APPLY TO 1-JOIST OR FLOOR/ROOF TRUSS LAYOUT DESIGN AND
- 2. ALL CONSTRUCTION SHALL CONFORM TO THE LATEST REQUIREMENTS OF THE NORTH CARGUMA RESIDENTIAL CODE (NORC), 2018 EDITION, PULS ALL LOCAL CODES AND REQUIATIONS. THE STRUCTUREM BIOREER IS NOT RESPONSIBLE FOR, AND MILL NOT HAVE CONTROL OF, CONSTRUCTION MERS, METHODS, TECHNOLISS, SEQUENCES OR PROPOZDURES, OR SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE CONSTRUCTION WORK. NOR MILL THE DAMBERS BE RESPONSIBLE FOR THE CONTRICTION STATUSET OF CONSTRUCTION WORK. AND MILL THE CONSTRUCTION CONSTRUCTION OF THE CONTRICTION CONDENS.
- 3. STRUCTURAL DESIGN BASED ON THE PROVISIONS OF THE NCRC, 2018 EDITION (R301.4 R301.7)

| 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 | 200 | 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 R301,2(4) WIND ZONE AND EXPOSURE) | | |
| GROUND SNOW LOAD: Pa | 20 (PSF) | -(., / 100 - 10 0001-1) | |

- I-JOIST SYSTEMS DESIGNED WITH 12 PSF DEAD LOAD AND DEFLECTION (IN) OF L/480
 FLOOR TRUSS SYSTEMS DESIGNED WITH 15 PSF DEAD LOAD
- 4. FOR 115 AND 120 MPH WIND ZONES, FOUNDATION ANCHORAGE IS TO COMPLY WITH SECTION R403.1.6 OF THE NORC, 2018 EDITION. FOR 130 MPH, 140 MPH, AND 150 MPH WIND ZONES, FOUNDATION ANCHORAGE IS TO COMPLY WITH SECTION 4504 OF THE NCRC, 2018 EDITION.
- 5. ENERGY EFFICIENCY COMPLIANCE AND INSULATION VALUES OF THE BUILDING TO BE IN ACCORDANCE WITH CHAPTER 11 OF THE NCRC, 2018 EDITION.

FOOTING AND FOUNDATION NOTES

- 1. FOUNDATION DESIGN BASED ON A MINIMUM ALLOWABLE BEARING CAPACITY OF 2000 PSF. CONTACT GEOTECHNICAL ENGINEER IF BEARING CAPACITY IS NOT ACHIEVED.
- 2. FOR ALL CONSIDETE SLABS AND FORDING, THE AREA, WHINE THE PRESENCE OF THE BULDING DIRECTOR SHALL HAVE ALL MECHANIC TO SOIL AND FORSION MARKEN. THE BULDING HE OWNERFOR THE STATE OF THE LINGHIE OF COMPONENT TO ASSISTE UNKNOW SEPPORT OF THE STAN, AND EXCEPT WARREN SEPPORT OF THE STAN, AND EXCEPT WARREN APPROVED THE FILL KEPING SHALL NOT EXCEPT OF THE OWNERFOR THE AREA. AND THE STAN SHALL SHALL
- 3. 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 SAMED WITHIN 4 TO 12 HOURS OF CONCRETE FINISHING AND WALL LOCATIONS HAVE BEEN MARKED. ADJUST INVERSE NECESSARY.
- 4. CONCRETE SHALL CONFORM TO SECTION PRO2.2 OF THE NORC, 2018 EDITION. CONCRETE REINFORMS STEEL TO BE ASTM A615 GRADE 60. NELDED WIRE FARRIC TO BE ASTM A615 GRADE 60. NELDED WIRE FARRIC TO BE ASTM A615. MANITAN A MANUMUL CONCRETE COVER ADDIOUR DESTROPAGES STEEL OF 25" NF FOOTNOS AND 1.1/2" IN SAME TO REFUSE OF REPORT OF THE TOWN THE NORE FACE OF THE WALL JAM TO BE LESS THAN 3.4". CONCRETE COVER FOR REPORTORS STEEL ASSAUGH FROM THE OUTSIDE FACE OF THE WALL SHALL NOT BE LESS THAN 1.1/2" FOR \$6.
- 5. MASONRY UNITS TO CONFORM TO ACE 530/ASCE 5/TMS 402. MORTAR SHALL CONFORM TO ASTM C270.
- 6. THE UNSUPPORTED HEIGHT OF MASONRY PIERS SHALL NOT EXCEED FOUR TIMES THEIR LEAST DIMENSION FOR UNFILLED HOLLOW CONCRETE MASONRY UNITS AND TON TIMES THEIR LEAST DIMENSION FOR SULD OR SOLID PIERD FIESD. FORS MAY BE FLIED SULD WITH CONCRETE OR TYPE M OR S MORTAR. PIERS AND WALLS SHALL BE CAPPED WITH 8" OF SOLID MASONRY
- THE CENTER OF EACH OF THE PIERS SHALL BEAR IN THE MIDDLE THIRD OF ITS RESPECTIVE FOOTING, EACH GIRDER SHALL BEAR IN THE MIDDLE THIRD OF THE PIERS.
- 8. ALL CONCRETE AND MASONRY FOUNDATION WALLS ARE TO BE CONSTRUCTED IN ACCORDANCE With THE PROVISIONS OF SECTION ROUGH OF THE MCRC, 2016 EDITION OR IN ACCORDANCE WITH ACI SIA, ADJ. 2016. AND REPARE AND CAS SOA/AGES, EVEN 46CO. MASONRY TOWNSHOON AND ARE TO BE REPARRIED DER TABLE ROULLING, ROUGH LISO, DOR ROUGH (1) OF THE MCRC, 2018 EDITION. CHOCKET EDITIONATION WALLS ARE TO BE REPARRIED DER TABLE. R404.1.1(5) OF THE NORC, 2018 EDITION. STEP CONCRETE FOUNDATION WALLS TO 2 x 6 FRAMED WALLS AT 16" O.C. WHERE CRADE PERMITS (UNO).

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- FRAMING NOTES 1. ALL FRAMING LUMBER SHALL BE #2 SPF MINIMUM (Fb = 875 PSI, Fv = 375 PSI, E = 1600000 PSI) UNLESS NOTED OTHERWISE (UNO). ALL TREATED LUMBER SHALL BE #2 SYP MINIMUM (Fb = 975 PSI, Fv =175 PSI, E = 1600000 PSI) UNLESS NOTED OTHERWISE (UNO),
- LAMNATED VENEZE LIMBER (LVL) SHALL HAVE THE FOLLOWING MINIAUM PROPERTIES: To =2000 PSI, Fv = 285 PSI, E = 1900000 PSI. LAMNATED STRAND LIMBER (R.S.) SHALL HAVE THE FOLLOWING MINIAUM PROPERTIES: To = 2025 PSI, F = 310 PSI, E = 195000 PSI. PARALLE STRAND LIMBER (PSI, 2) TO 77 OPERT HEAVE THE FOLLOWING MINIAUM PROPERTIES: F = 2500 PSI, F = 1000000 PSI. PARALLE STRAND LIMBER. (PSL) MORE THAN 7" DEPTH SHALL HAVE THE FOLLOWING MINIMUM PROPERTIES: Fc = 2900 PSI, E = 2000000 PSI. INSTALL ALL CONNECTIONS
- 3. STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING ASTM SPECIFICATIONS

| Α. | W AND WI SHAPES: | ASIM A992 |
|----|-----------------------------|--|
| В. | 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 |
| | B. C. D. | B. CHANNELS AND ANGLES: C. PLATES AND BARS: D. HOLLOW STRUCTURAL SECTIONS: |

4. STEEL BEAMS SHALL BE SUPPORTED AT EACH END WITH A MINIMUM BEARING LENGTH OF 3 1/2* AND FULL FLANGE WIDTH (UNO). PROVIDE SOLID REARING FROM BEAM SUPPORT TO FOUNDATION. BEAMS SHALL BE ATTACHED AT THE BOTTOM FLANGE TO EACH SUPPORT AS FOLLOWS (UND):

| 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 |
| D. STEEL PIPE COLUMN | (4) 3/4" DIA. A325 BOLTS OR 3/16" FILLET WELD |

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 $\mathbf{w}/(2)$ rows of self tapping screws \mathbf{o} 16" o.c. or (2) rows of 1/2" diameter bolts \mathbf{o} 16" o.c. if 1/2" bolts are used to fasten the nailer, the steel beam shall be fabricated $\mathbf{w}/(2)$ rows of 9/16" diameter holes \mathbf{o}

- 5. SQUARES DENOTE POINT LOADS WHICH REQUIRE SOLID BLOCKING TO GIRDER OR FOUNDATION. SHADED SQUARES DENOTE POINT LOADS FROM ABOVE WHICH REQUIRE SOLID BLOCKING TO SUPPORTING MEMBER BELOW.
- 6. ALL LOAD BEARING HEADERS TO CONFORM TO TABLE R602.7(1) AND R602.7(2) OF THE NCRC, 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 E SUPPORTED WITH (2) STUDS AT EACH BEARING POINT (UNO). INSTALL KING STUDS PER SECTION R602.7.5 OF THE NORTH CAROLINA
- 7. ALL BEAMS, 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 BEAMS OR GROER TRUSSES PERPENDICULAR TO WALL AND SUPPORTED BY (3) STUDS OR LESS ARE TO HAVE 1 1/2" MINMUM BEARING (UNO). ALL BEAMS OR GROER 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
- 8. FLITCH BEAMS SHALL BE BOLTED TOGETHER USING 1/2" DIAMETER BOLTS (ASTM A307) WITH WASHERS PLACED AT THREADED END OF BOLT. BOLTS SHALL BE SPACED AT 24" CENTERS (MAXIMUM), AND STAGGERED AT TOP AND BOTTOM OF BEAM (2" EDGE DISTANCE), WITH (2) BOLTS LOCATED AT
- 9. ALL 1-JOIST OR TRUSS LAYOUTS ARE TO BE IN COMPLIANCE WITH THE OVERALL DESIGN SPECIFIED ON THE PLANS. ALL DEWATIONS 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 BRACING SHALL COMPLY WITH ALL APPLICABLE TABLES IN SECTION R602.10.
- 11. PROVIDE DOUBLE JOIST UNDER ALL WALLS PARALLEL TO FLOOR JOISTS. PROVIDE SUPPORT UNDER ALL WALLS PARALLEL TO FLOOR TRUSSES OR I-JOISTS PER MANUFACTURER'S SPECIFICATIONS. INSTALL BLOCKING BETWEEN JOISTS OR TRUSSES FOR POINT LOAD SUPPORT FOR ALL POINT LOADS ALONG OFFSET LOAD LINES.
- 12. FOR ALL HEADERS SUPPORTING BRICK VENEER THAT ARE LESS THAN 8'-0" IN LENGTH REST A 6" v 4" v 5/16" STEEL ANGE WITH 6" MINIMUM TWA MLL PROJECTS SOFT WHITE DEBUT STATES THAT A MELLESS HAND SHE WE WERE AND STATES AND STELL ANGLE TO (2) 2 x 10 BLOCKING INSTALLED #/ (4) 12d HAILS EA. PLY BETWEEN WALL STUDS WITH (2) ROWS OF 1/2" LAG SCREWS AT 12" O.C. STAGGERED AND IN ACCORDANCE WITH SECTION R703.8.2.1 OF THE NCRC, 2018 EDITION.
- 13. 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 WEMBERS WITH THREE ROWS OF 12d NAILS AT 16" O.C. FRAME DORMER WALLS ON TOP OF DOUBLE OR TRIPLE RAFTERS AS SHOWN
- 14. FOR TRUSSED ROOFS: FRAME DORMER WALLS ON TOP OF 2 x 4 LADDER FRAMING AT 24" O.C. BETWEEN ADJACENT ROOF TRUSSES. STICK FRAME OVER-FRAMED ROOF SECTIONS WITH 2 x 8 RIDGES, 2 x 6 RAFTERS AT 16" O.C. AND FLAT 2 x 10 VALLEYS (UNO).
- ALL 4 × 4 AND 6 × 6 POSTS TO BE INSTALLED WITH 700 LB CAPACITY UPUFF CONNECTORS TOP AND BOTTOM (UND.) POSTS MAY BE SECURED USING ONE SUPPOSH OF BUTSE UPUFF CONNECTOR PISTENDED TO THE BUND AT THE BOTTOM AND THE BUND AT THE TOP OF EACH POST. ONE TS SECTION OF SMESSING COSTS COS. STRAPPING WITH (6) BUT ON BUND AND THE COST UND USE OF EACH POST. FOR MASONRY OR CONCRETE FOUNDATION USE SIMPSON POST BASE.

