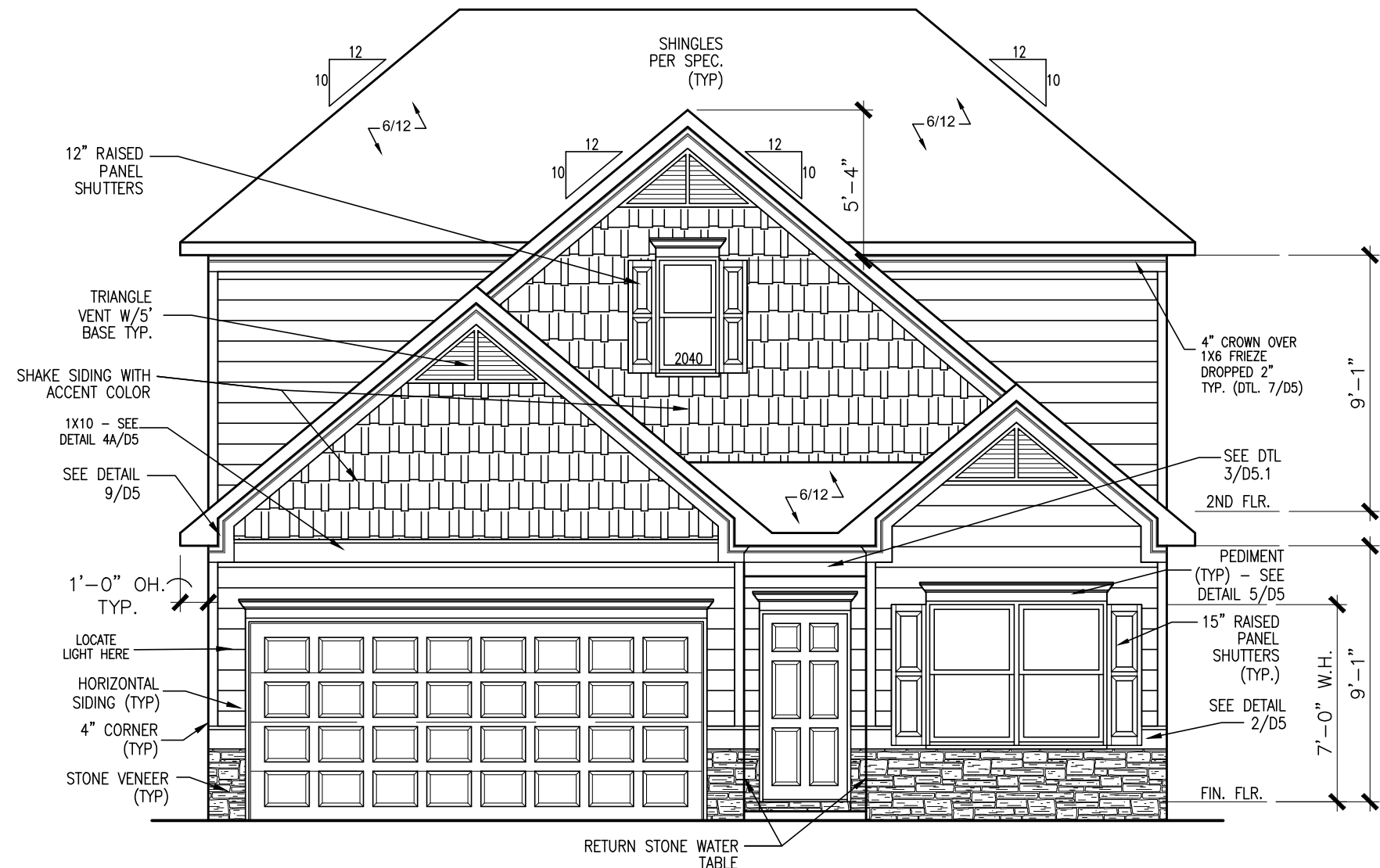


DUNCAN CROSSING LOT 0056



FRONT ELEVATION "C"

SCALE: 3/16"=1'-0"

ALL NON-MASONRY RETURNS TO BE HORIZONTAL SIDING

SEE SHEET D3 OF SDH TYPICAL DETAILS FOR SOFFIT DETAILS PER SOFFIT MATERIAL

| BY | REVISION | DATE |
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QUALITY | INTEGRITY | VALUE

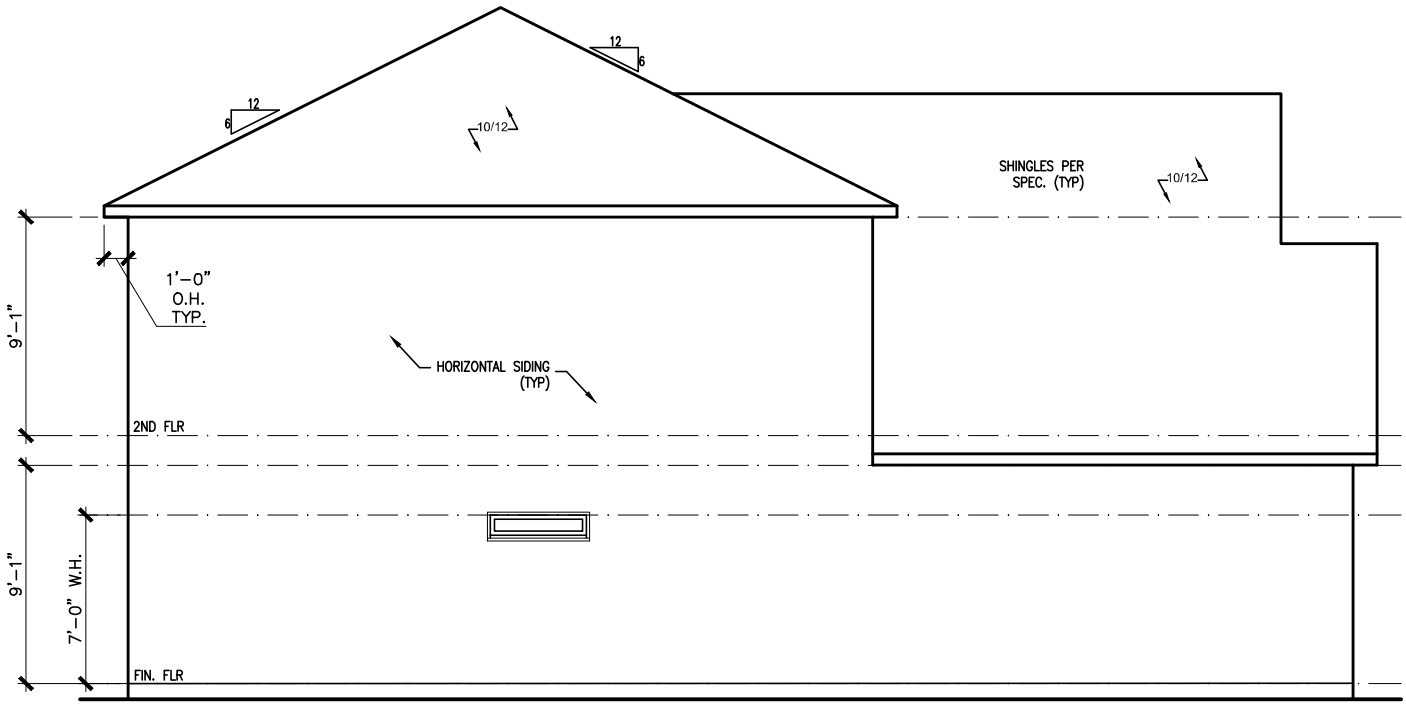
ELEVATIONS
FRONT ELEVATION
CALDWELL

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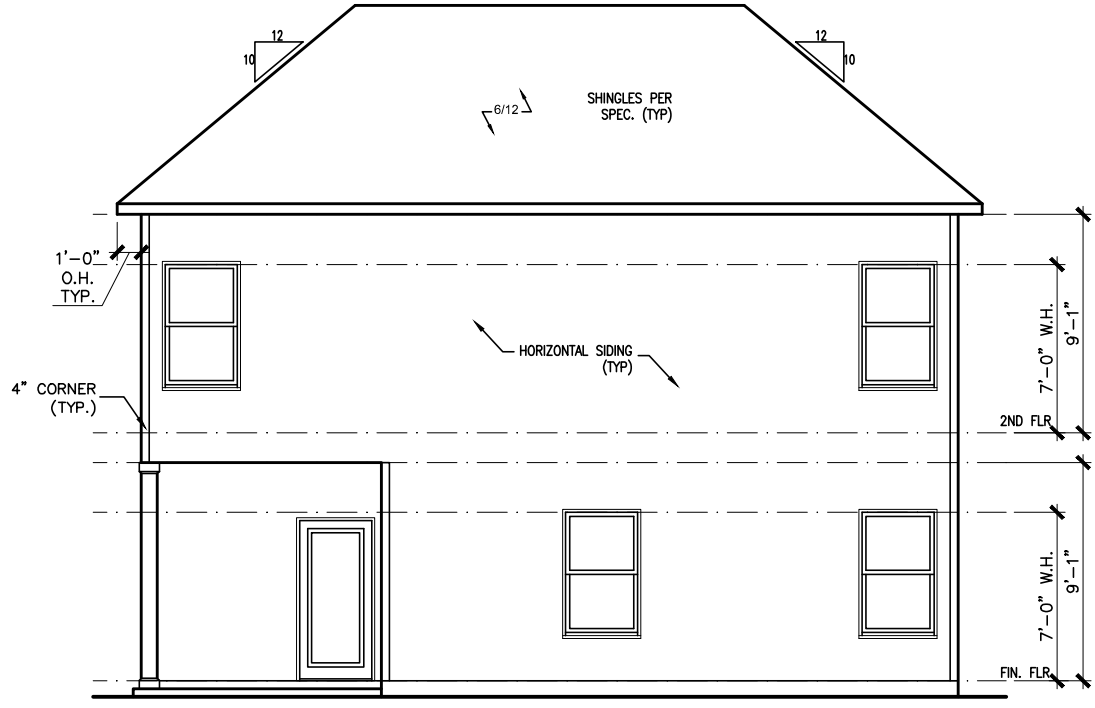
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| BY: TJJ | CH: AW |
| DATE: 02/19/2024 | |
| FACADE OPT: C | |
| PLAN ID: | |
| FND: ALL | ELEV: C |
| PAGE NO: A1.1 | |

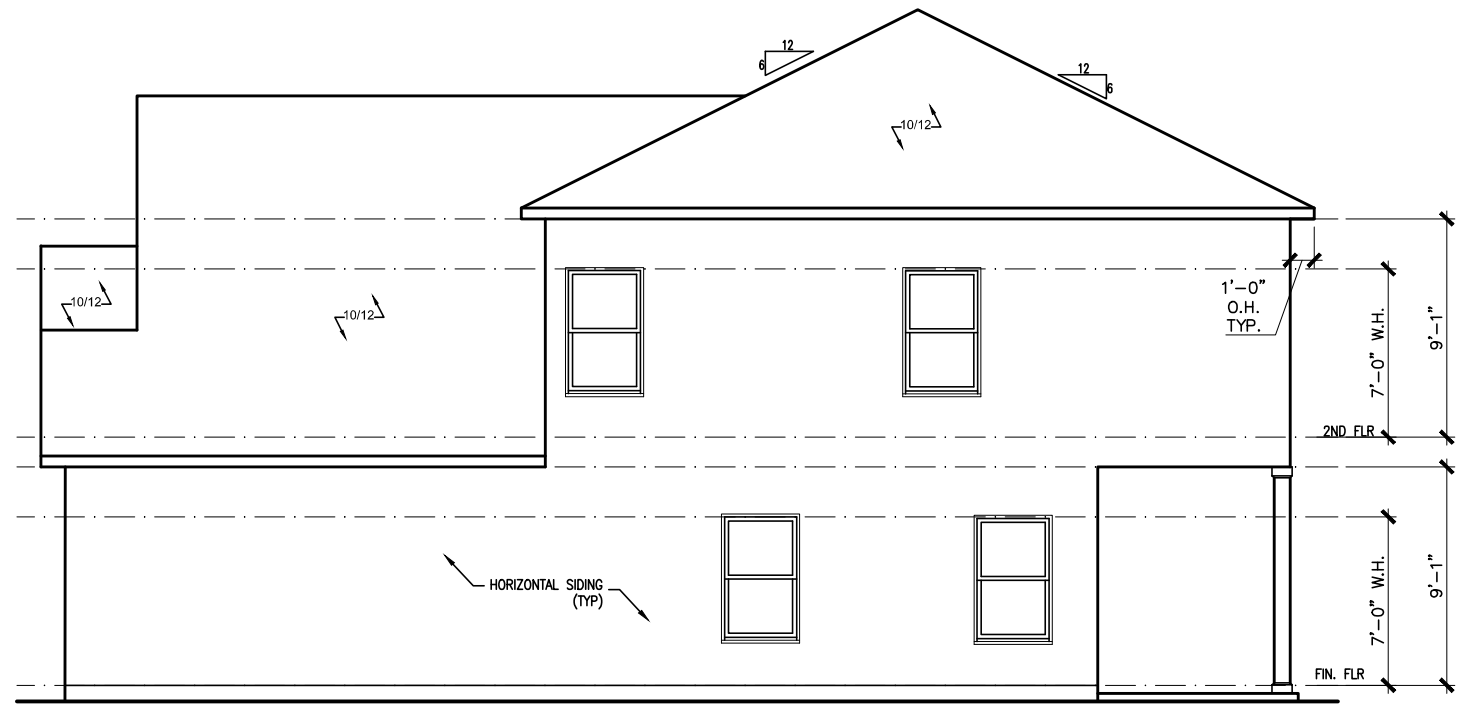
DUNCAN CROSSING LOT 0056



LEFT ELEVATION "C"
SCALE: 1/8" = 1'-0"



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



RIGHT ELEVATION "C"
SCALE: 1/8" = 1'-0"

| BY | REVISION | DATE |
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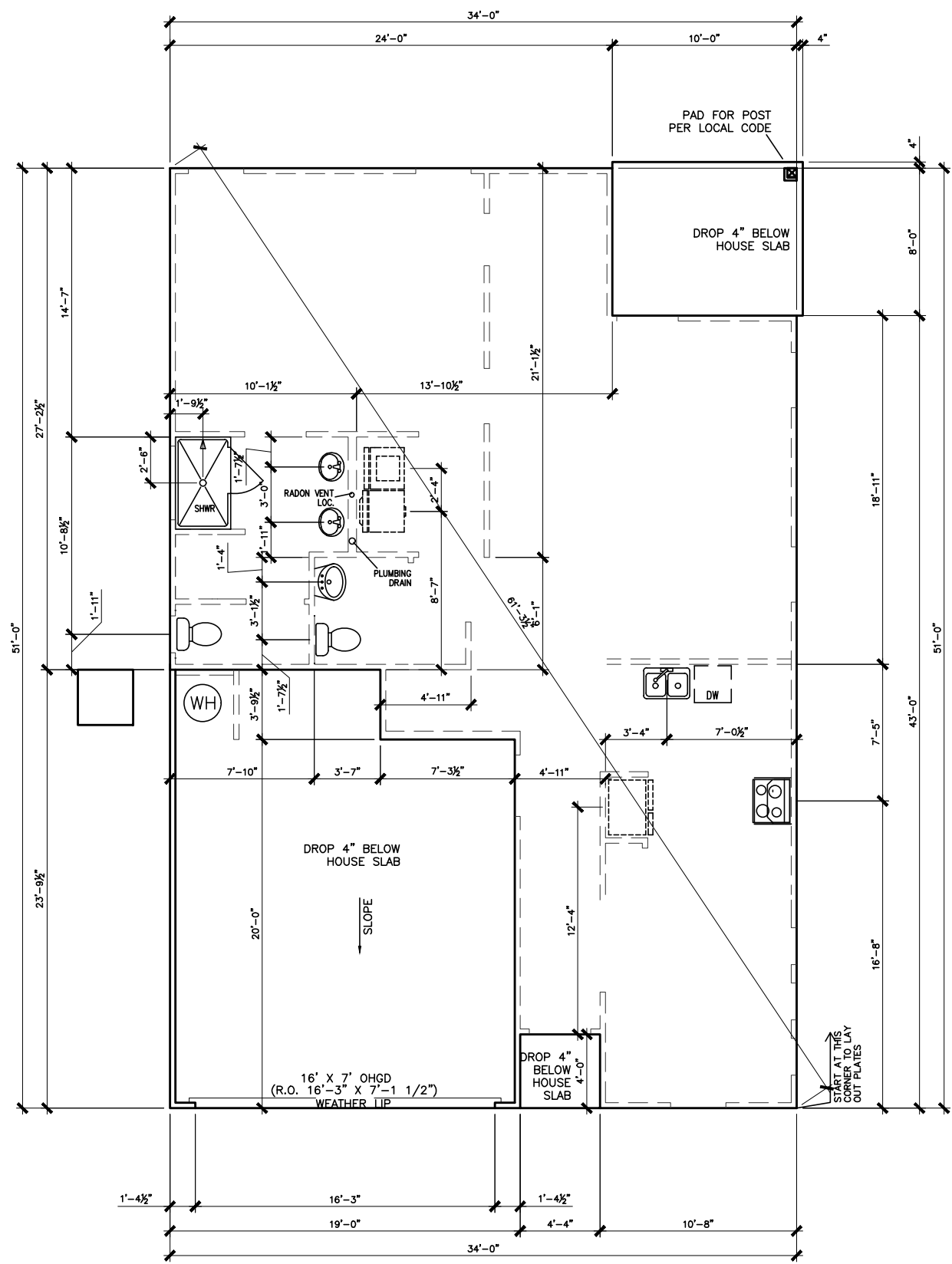
ELEVATIONS
SIDES AND REAR
CALDWELL

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| FACADE OPT: C | |
| PLAN ID: | |
| FND: ALL | ELEV: C |
| PAGE NO: A2.1 | |

DUNCAN CROSSING LOT 0056



*RADON VENT
PROVIDED PER
LOCAL CODE

REFER TO DETAIL 3/D1
FOR BRICK LEDGE
DETAIL WHEN BRICK
VENEER IS CHOSEN

SLAB PLAN

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

| DATE | REVISION | BY |
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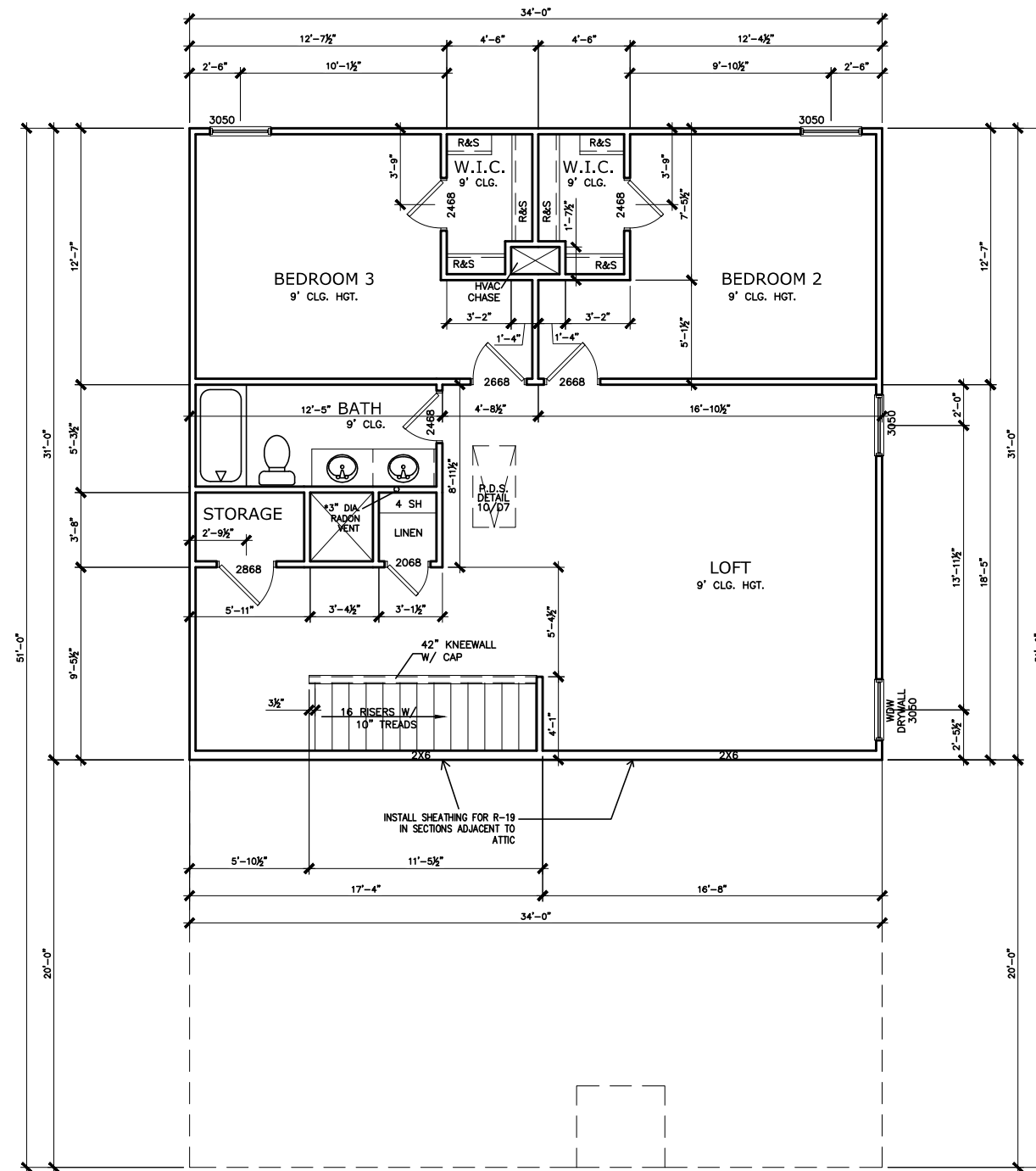
FOUNDATION PLAN
SLAB PLAN
CALDWELL

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| FACADE OPT: C | |
| PLAN ID: | |
| FND: ALL | ELEV: C |
| PAGE NO: A3.1 | |

DUNCAN CROSSING LOT 0056



SECOND FLOOR PLAN

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

*RADON VENT PROVIDED
PER LOCAL CODE

| BY | REVISION | DATE |
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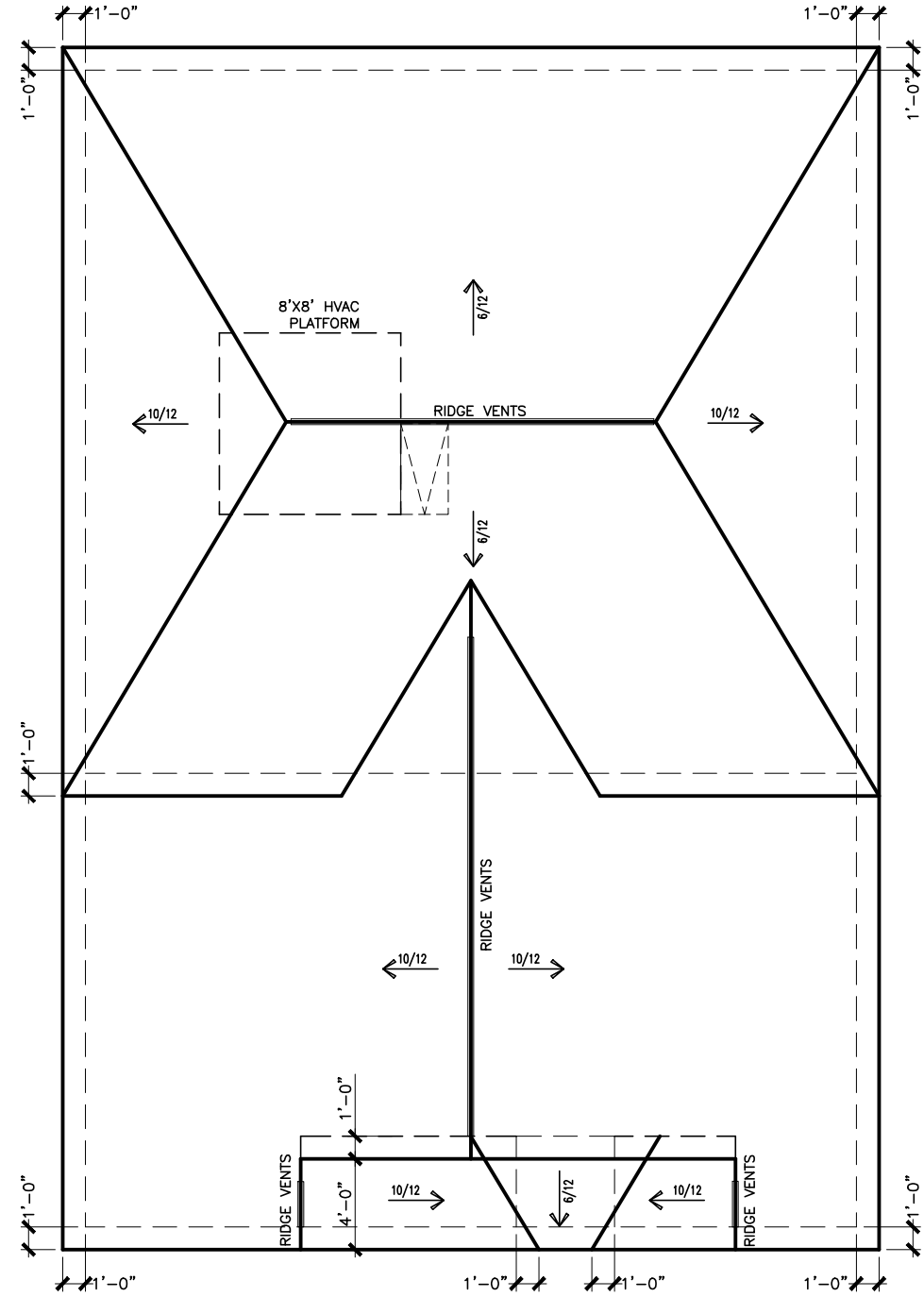
FLOOR PLAN
SECOND FLOOR
CALDWELL

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| DATE: 02/19/2024 | |
| FACADE OPT: C | |
| PLAN ID: | |
| FND: ALL | BLEV: C |
| PAGE NO: A5.2 | |

DUNCAN CROSSING LOT 0056



ROOF LAYOUT "C"
SCALE : 1/8" = 1'-0"

| DATE | REVISION | BY |
|------|----------|----|
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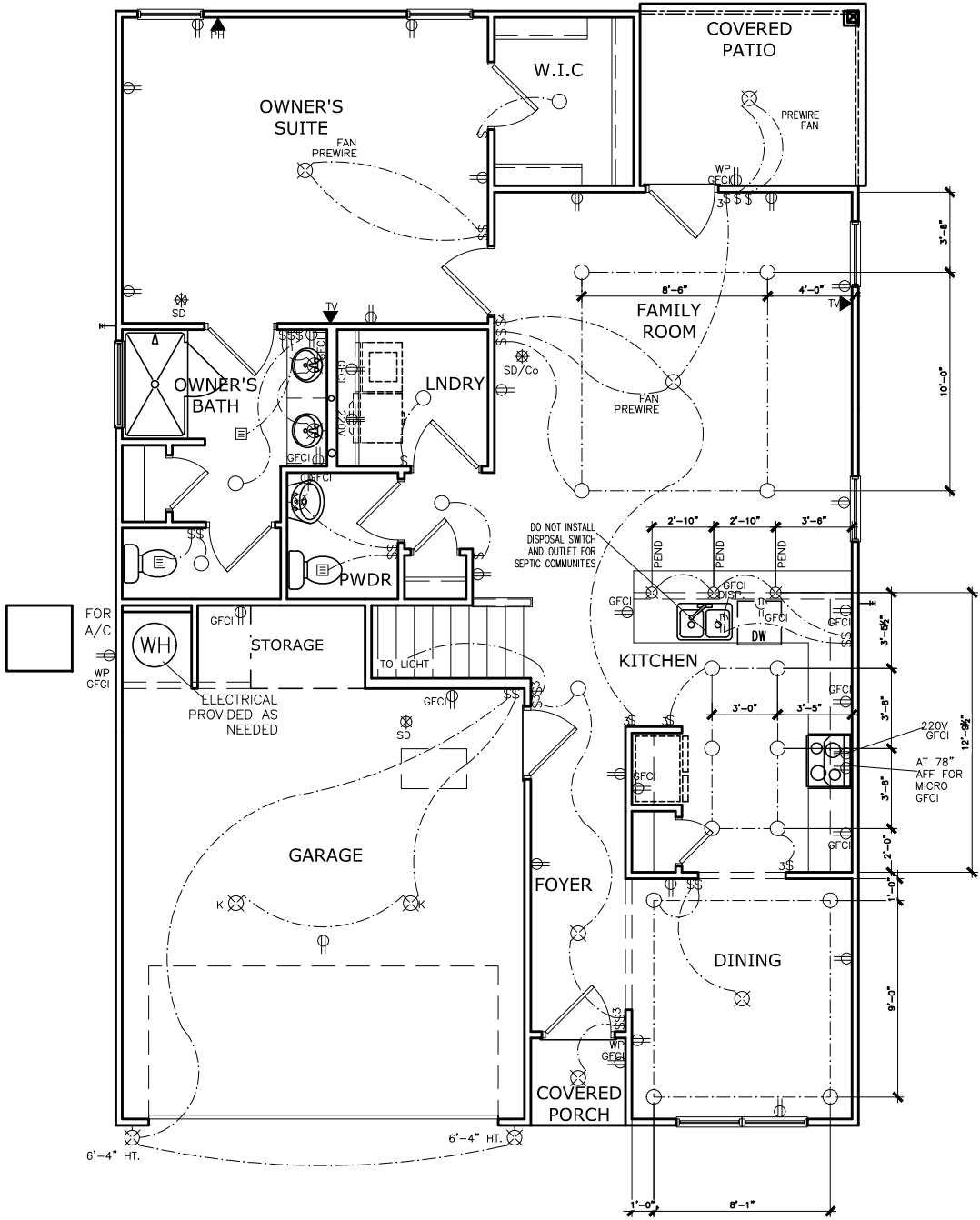
ROOF PLAN
ROOF PLAN
CALDWELL

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| PLAN ID: | |
| FND: ALL | ELEV: C |
| PAGE NO: A6.1 | |

DUNCAN CROSSING LOT 0056



ELECTRICAL LEGEND

| | | | |
|-------|----------------------------------|---|--------------------------------|
| \$ | SWITCH | ▼ | TV |
| \$3 | 3 WAY SWITCH | ⊕ | 120V RECEPTACLE |
| \$4 | 4 WAY SWITCH | ⊕ | 120V SWITCHED RECEPTACLE |
| ⊗ | CEILING FIXTURE | ⊕ | 220V RECEPTACLE |
| ⊕ | KEYLESS | ⊕ | GFCI OUTLET |
| ⊗ | WALL MOUNT FIXTURE | ⊕ | ARCH FAULT CIRCUIT INTERRUPTER |
| ○ | CEILING FIXTURE | † | GAS LINE |
| ● | FLEX CONDUIT | † | WATER LINE |
| CH | CHIMES | ↓ | HOSE BIBB |
| ▼ | TELEPHONE | ⊕ | FLOOD LIGHT |
| SD/Co | SMOKE DETECTOR & CARBON MONOXIDE | ⊕ | 1x4 LUMINOUS FIXTURE |
| SO | SECURITY OUTLET | ⊕ | CEILING FAN |
| □ | GARAGE DOOR OPENER | ⊕ | ELECTRICAL WIRING |
| ⊕ | EXHAUST FAN | ⊕ | CEILING FIXTURE |
| ⊕ | FAN/LIGHT | | |

ELECTRICAL PLANS TO FOLLOW ALL LOCAL CODES

APPROX. FIXTURE HGTS (MEASURED FROM BOTTOM OF FIXTURE)

| | |
|-------------------------|---------------------------|
| BREAKFAST/DINING ROOM | 63" ABOVE FINISHED FLOOR |
| KITCHEN PENDANT LIGHTS | 33" ABOVE COUNTER TOP |
| TWO STORY FOYER FIXTURE | 96" ABOVE FINISHED FLOOR |
| CEILING FAN | 96" ABOVE FINISHED FLOOR |
| FLOOD LIGHT | 10' MAX. ABOVE FIN. FLOOR |

NOTE: FINAL PLACEMENT OF PHONE/CABLE T.B.D. ON SITE BY THE BUILDER

FIRST FLOOR ELECTRICAL PLAN
SCALE : 1/8" = 1'-0"

| DATE | REVISION | BY |
|------|----------|----|
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SMITH DOUGLAS HOMES
QUALITY | INTEGRITY | VALUE

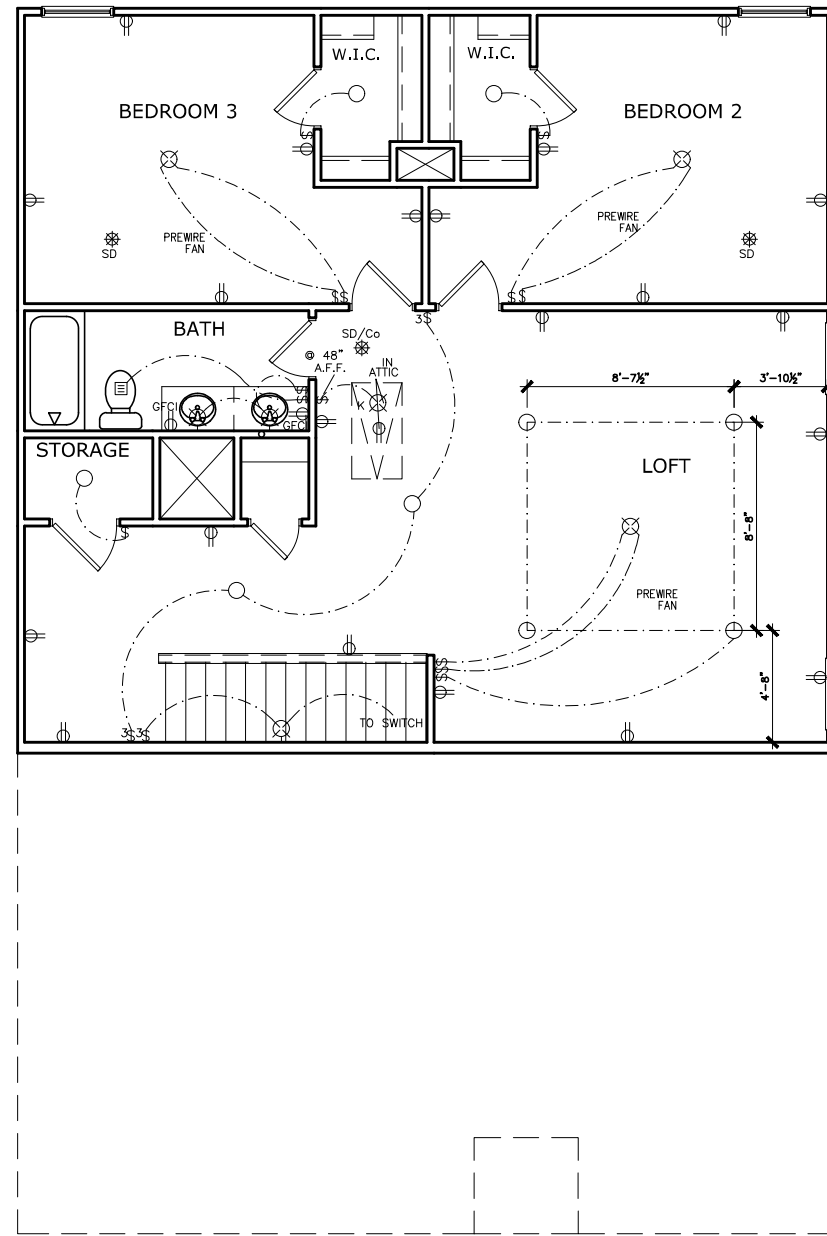
ELECTRICAL PLAN
FIRST FLOOR
CALDWELL

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| PLAN ID: | |
| FND: ALL | BLV: C |
| PAGE NO: A7.2 | |

DUNCAN CROSSING LOT 0056



SECOND FLOOR ELECTRICAL PLAN

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

ELECTRICAL LEGEND

| | | | |
|-------|----------------------------------|---|--------------------------------|
| \$ | SWITCH | ▼ | TV |
| \$3 | 3 WAY SWITCH | ⊕ | 120V RECEPTACLE |
| \$4 | 4 WAY SWITCH | ⊕ | 120V SWITCHED RECEPTACLE |
| ⊗ | CEILING FIXTURE | ⊕ | 220V RECEPTACLE |
| ⊕ | KEYLESS | ⊕ | GFCI OUTLET |
| ⊗ | WALL MOUNT FIXTURE | ⊕ | ARCH FAULT CIRCUIT INTERRUPTER |
| ○ | CEILING FIXTURE | † | GAS LINE |
| ● | FLEX CONDUIT | † | WATER LINE |
| CH | CHIMES | ↓ | HOSE BIBB |
| ▼ | TELEPHONE | ⊕ | FLOOD LIGHT |
| SD/Co | SMOKE DETECTOR & CARBON MONOXIDE | ⊕ | 1x4 LUMINOUS FIXTURE |
| SO | SECURITY OUTLET | ⊗ | CEILING FAN |
| □ | GARAGE DOOR OPENER | — | ELECTRICAL WIRING |
| ⊕ | EXHAUST FAN | ⊕ | CEILING FIXTURE |
| ⊕ | FAN/LIGHT | | |

ELECTRICAL PLANS TO FOLLOW ALL LOCAL CODES

APPROX. FIXTURE HGTS (MEASURED FROM BOTTOM OF FIXTURE)

| | |
|-------------------------|---------------------------|
| BREAKFAST/DINING ROOM | 63" ABOVE FINISHED FLOOR |
| KITCHEN PENDANT LIGHTS | 33" ABOVE COUNTER TOP |
| TWO STORY FOYER FIXTURE | 96" ABOVE FINISHED FLOOR |
| CEILING FAN | 96" ABOVE FINISHED FLOOR |
| FLOOD LIGHT | 10' MAX. ABOVE FIN. FLOOR |

NOTE: FINAL PLACEMENT OF PHONE/CABLE T.B.D. ON SITE BY THE BUILDER

| DATE | REVISION | BY |
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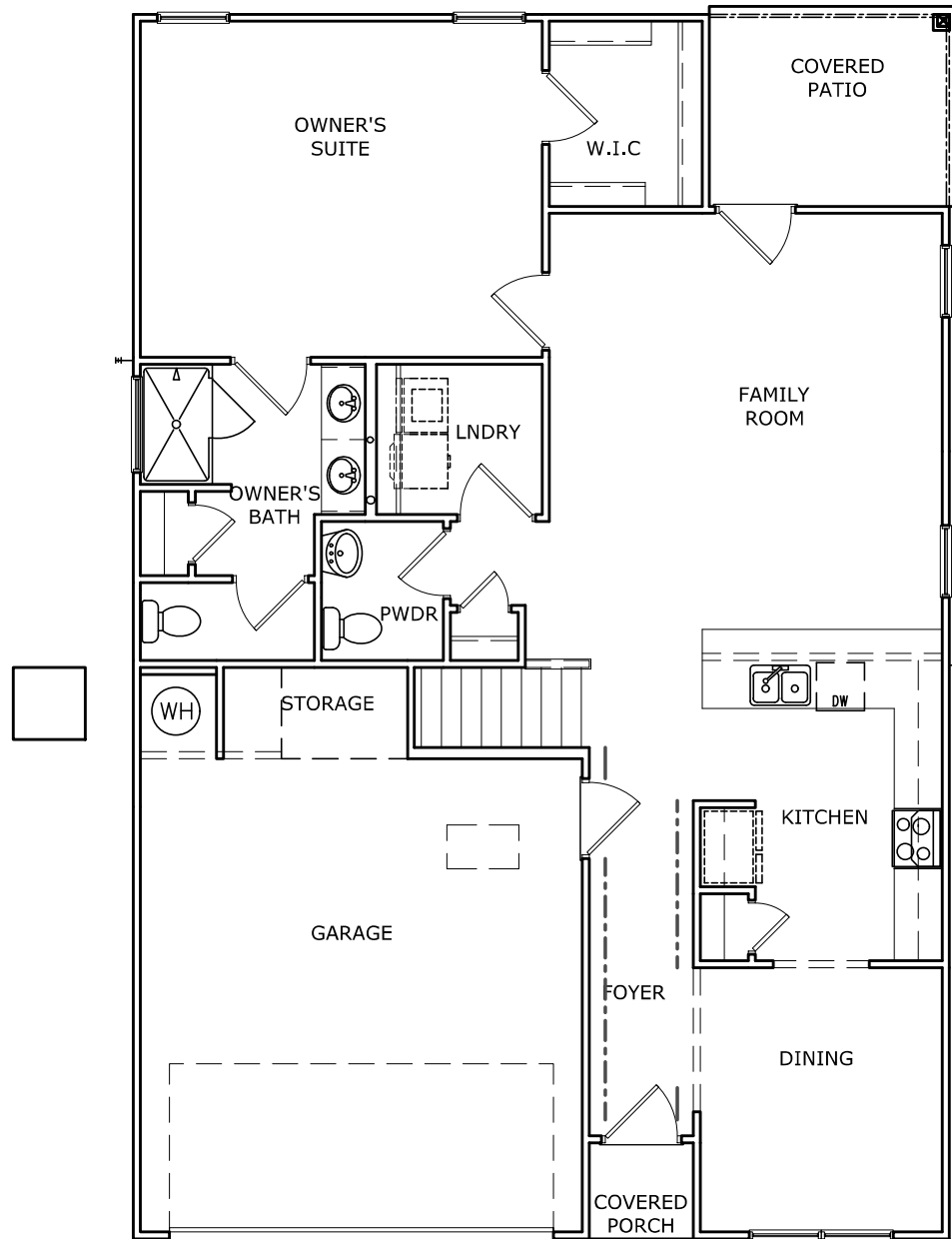
ELECTRICAL PLAN
SECOND FLOOR
CALDWELL

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| PLAN ID: | |
| FND: ALL | ELEV: C |
| PAGE NO: A7.3 | |

DUNCAN CROSSING LOT 0056



FOYER TRIM - CHAIR/SHADOW - - - - -

TRIM LAYOUT FIRST FLOOR PLAN

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

| DATE | REVISION | BY |
|------|----------|----|
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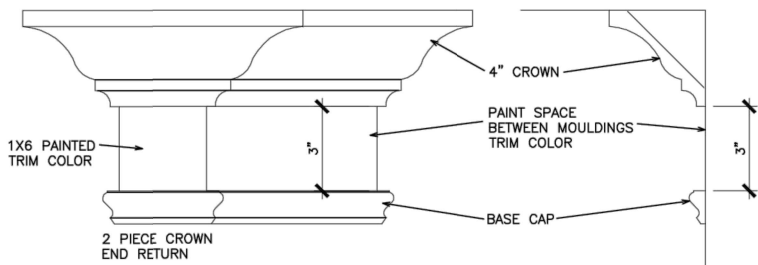
FLOOR PLAN
TRIM LAYOUT
CALDWELL

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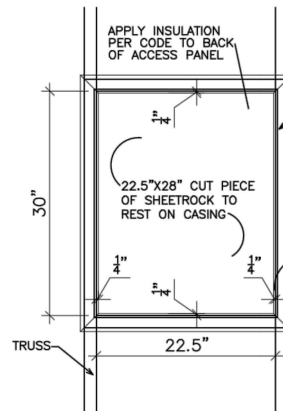
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|------------------|---------|
| BY: TJJ | CH: AW |
| DATE: 02/19/2024 | |
| FACADE OPT: C | |
| PLAN ID: | |
| FND: ALL | ELEV: C |
| PAGE NO: A8.1 | |

REFER TO LOT SPECIFIC PLAN TO DETERMINE WHICH DETAILS APPLY



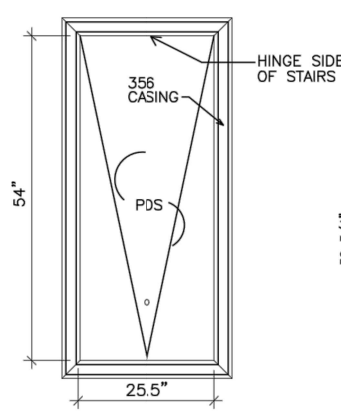
TYPICAL TWO PIECE CROWN

N.T.S.



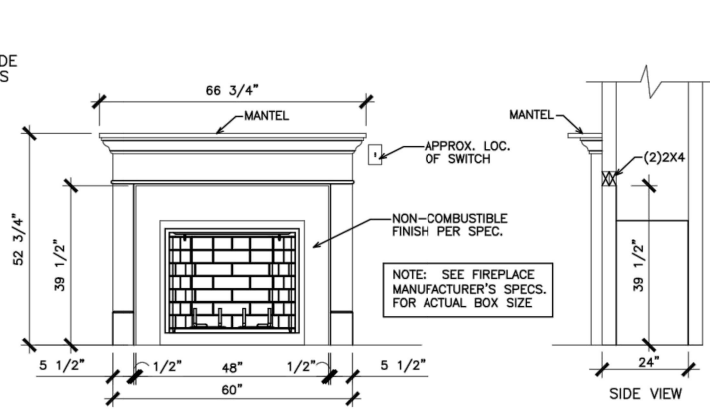
SCUTTLE HOLE DETAIL

N.T.S.



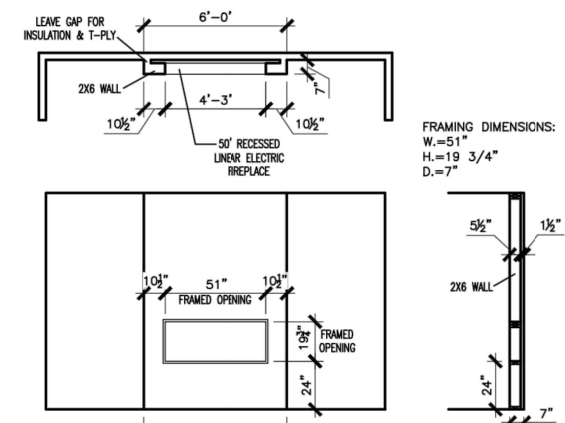
PDS TRIM DETAIL

N.T.S.



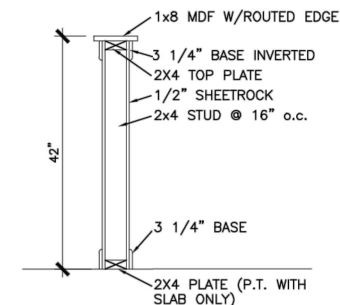
GAS/ELECTRIC FIREPLACE DETAIL WITH WESCOTT WOOD MANTEL

N.T.S.



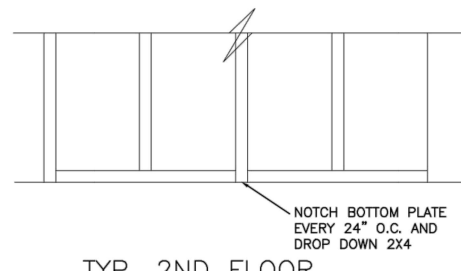
LINEAR ELECTRIC FIREPLACE DETAIL

N.T.S.



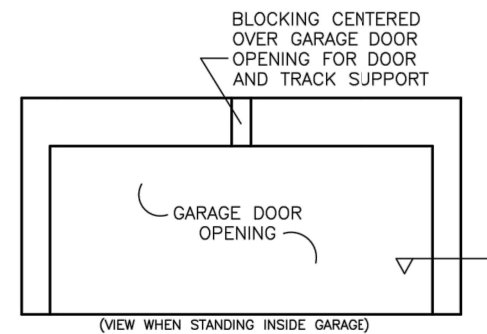
TYP. KNEEWALL SECTION

N.T.S.



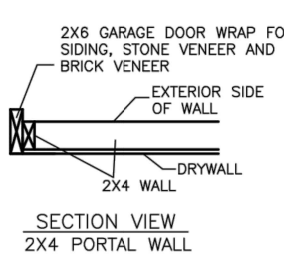
TYP. 2ND FLOOR KNEEWALL STABILITY

N.T.S.

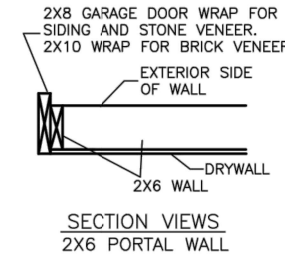


TYP. GARAGE WRAP & BLOCKING

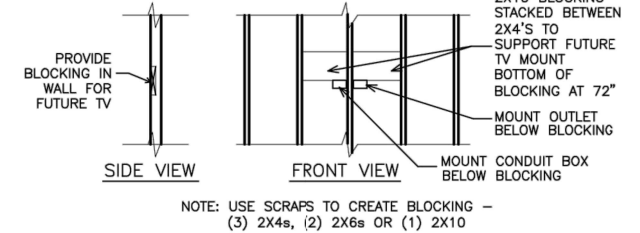
N.T.S.



SECTION VIEW 2X4 PORTAL WALL

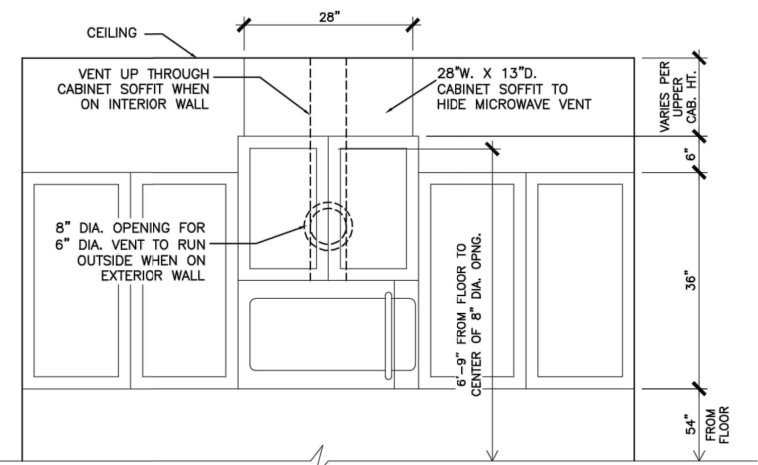


SECTION VIEWS 2X6 PORTAL WALL



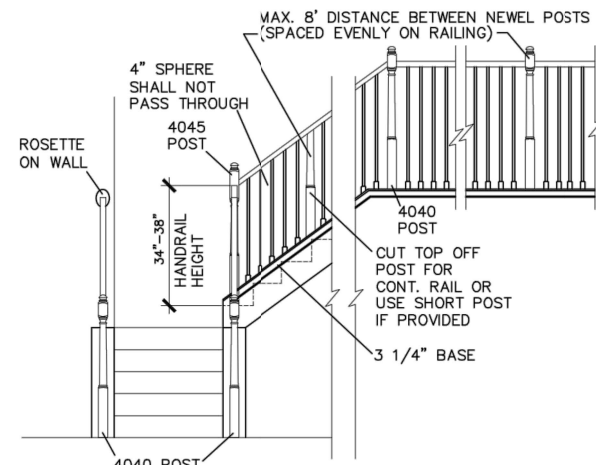
TYP. TV WALL PREP

N.T.S.



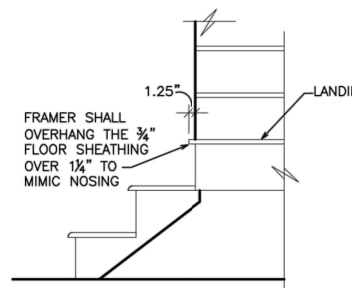
CABINET SOFFIT DETAIL ABOVE VENTED MICROWAVE W/CABINET ABOVE RANGE BUMPED UP & OUT

N.T.S.



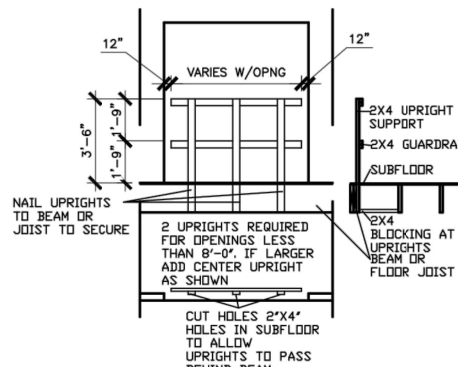
HANDRAIL/POST DETAIL @ STAIRS

N.T.S.



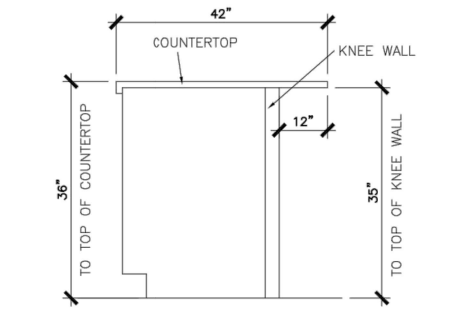
BOX STEP OVERHANG

N.T.S.



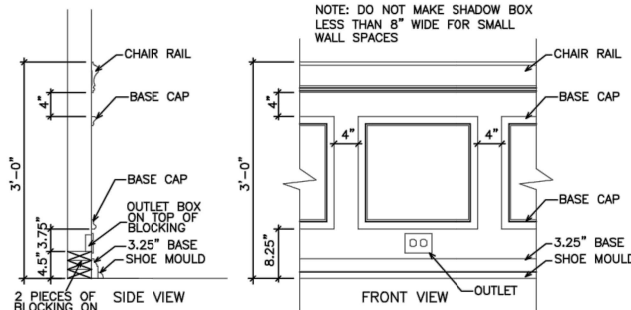
GUARD RAIL DTL. AS REQ'D

N.T.S.



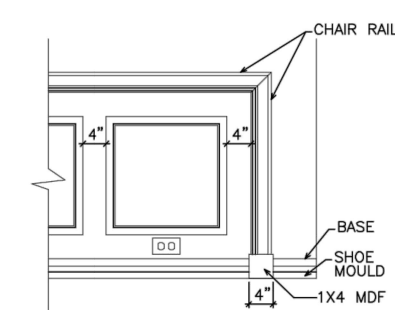
SECTION @ ISLAND KNEEWALL

N.T.S.



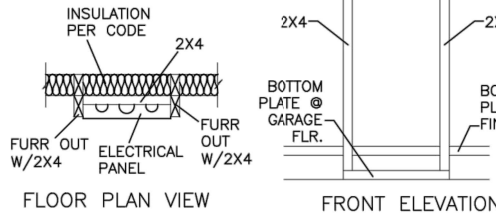
TYPICAL CHAIR RAIL & SHADOW BOX DETAIL

N.T.S.



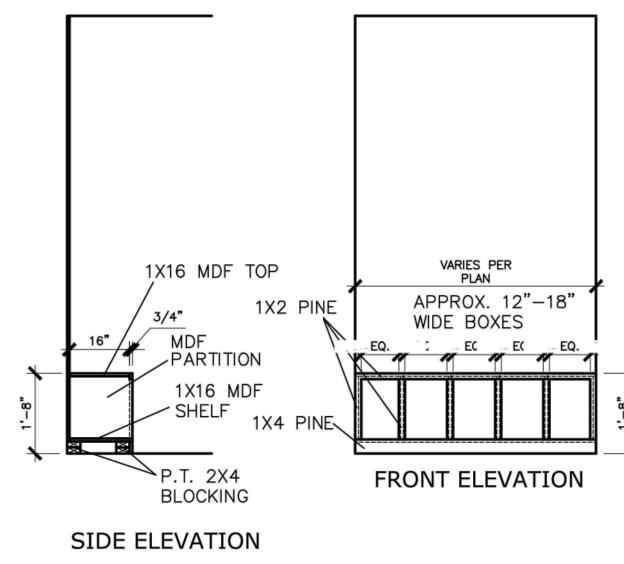
CHAIR RAIL END TRIM DETAIL

N.T.S.



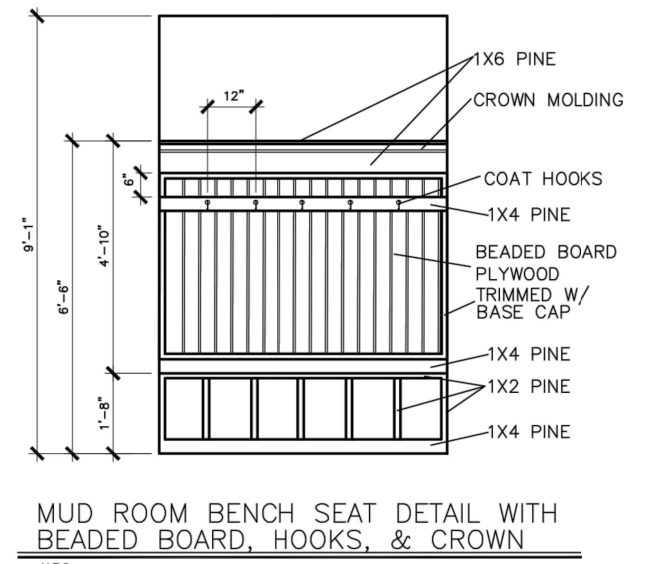
ELECTRICAL PANEL DETAIL

N.T.S.



MUD ROOM BENCH SEAT DETAIL

N.T.S.



MUD ROOM BENCH SEAT DETAIL WITH BEADED BOARD, HOOKS, & CROWN

N.T.S.

(IF TRIM CHOSEN WITHOUT BENCH CONTINUE TO FLOOR)

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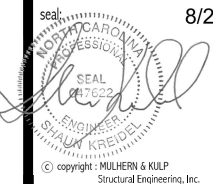
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INTERIOR TRIM
DETAILS

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PAGE NO: D1.1



MULHERN+KULP
RESIDENTIAL STRUCTURAL ENGINEERING

3625 Matthews Parkway, Suite 105 - Alpharetta, GA 30022
770-777-8874 - mulhern@mulhernkulp.com

NC License # C-3825

Mulhern+Kulp project number:
256-21010

project mgr: **SMK**
drawn by: **MJF**
issue date: **10-26-2021**

REVISIONS:

| date: | initial: |
|---|----------|
| 11/22/21 | JPP |
| 8/21/2023 | RAP |
| ADD OPT. FULL HEIGHT BRCK TO REAR 4 SIDES | |

SMITH DOUGLAS HOMES

GENERAL STRUCTURAL NOTES

CALDWELL MODEL

120 MPH WIND ZONE
NORTH CAROLINA

sheet: **SO.0**

CONNECTION SPECIFICATIONS (TYP. U.N.O.)

| DESCRIPTION OF BLDG. ELEMENT | 3"x0.131" NAILS | 3"x0.120" NAILS |
|--|---|--|
| JOIST TO SOLE PLATE | (3) TOENAILS | (3) TOENAILS* |
| SOLE PL. TO JOIST/RIM OR BLKG STUD TO PLATE | NAILS @ 4" o.c. | NAILS @ 4" o.c. |
| RIM TO TOP PLATE | (4) TOENAILS/ (3) END NAILS | (4) TOENAILS/ (4) END NAILS* |
| BLKG. BTWN. JOISTS TO TOP PL. | TOENAILS @ 6" o.c. | TOENAILS @ 4" o.c.* |
| DOUBLE STUD | (3) TOENAILS EA. END | (3) TOENAILS EA. END* |
| DOUBLE TOP PLATE | NAILS @ 16" o.c. | NAILS @ 16" o.c. |
| DOUBLE TOP PLATE LAP SPLICE | NAILS @ 12" o.c. | NAILS @ 8" o.c. |
| TOP PLATE LAP @ CORNERS & INTERSECTING WALLS | (12) NAILS IN LAPPED AREA (24" MIN.) | (15) NAILS IN LAPPED AREA (24" MIN.) |
| RAFTER/TRUSS TO TOP PLATE | (3) NAILS | (3) NAILS |
| GAB. END TRUSS TO DBL. TOP PL. | (4) TOENAILS + (1) SIMPSON H2.5T TOENAILS @ 8" o.c. | (4) TOENAILS + (1) SIMPSON H2.5T TOENAILS @ 8" o.c. |
| R.T. w/ HEEL HT. 9 1/4" TO 12" | 2x10 BLK EVERY 3RD BAY FASTENED TO DBL. TOP PLATE w/ TOENAILS @ 6" o.c. | 2x10 BLK EVERY 3RD BAY FASTENED TO DBL. TOP PLATE w/ TOENAILS @ 4" o.c. |
| R.T. w/ HEEL HT. 12" TO 16" | 2x12 BLK EVERY 3RD BAY FASTENED TO DBL. TOP PLATE w/ TOENAILS @ 6" o.c. | 2x12 BLK EVERY 3RD BAY FASTENED TO DBL. TOP PLATE w/ TOENAILS @ 4" o.c. |
| R.T. w/ HEEL HT. UP TO 24" | LAP WALL SHTG. w/ DBL. TOP PL. & INSTALL ON TRUSS VERT. - FASTEN w/ NAILS @ 6" o.c. | LAP WALL SHTG. w/ DBL. TOP PL. & INSTALL ON TRUSS VERT. - FASTEN w/ NAILS @ 6" o.c.* |
| R.T. w/ HEEL HT. 24" TO 48" | LAP WALL SHTG. w/ DBL. TOP PL. & INSTALL ON TRUSS VERT. - FASTEN w/ NAILS @ 6" o.c. PROVIDE 2x BLK @ EA. BAY AT TOP OF HEEL | LAP WALL SHTG. w/ DBL. TOP PL. & INSTALL ON TRUSS VERT. - FASTEN w/ NAILS @ 6" o.c. PROVIDE 2x BLK @ EA. BAY AT TOP OF HEEL* |
| WALL TO FOUNDATION | WALL SHTG. LAP w/ SILL PL. & FASTENED PER SHEAR WALL FASTENING SPEC. | |

* 2 1/2"x0.131 IS AN ACCEPTABLE ALTERNATIVE TO A 3"x0.120", SAME SPACING OR NUMBER OF NAILS. (ONLY ACCEPTABLE WHERE * ARE SHOWN)

ADDITIONAL NOTES FOR TRUSS & I-JOIST MANUFACTURER

ROOF TRUSSES AND ENGINEERED JOISTS SHALL BE DESIGNED TO MEET THE DEFLECTION CRITERIA BELOW, UNLESS NOTED OTHERWISE ON PLAN. MULHERN & KULP CANNOT BE HELD RESPONSIBLE FOR ANY STRUCTURAL ISSUES RELATED TO ANY BUILDING COMPONENT IF COMPONENT SHOP DRAWINGS ARE NOT SUBMITTED TO MK FOR REVIEW PRIOR TO FABRICATION, DELIVERY, OR INSTALLATION.

TRUSSES/JOISTS SHALL BE DESIGNED SO THAT DIFFERENTIAL DEFLECTION BETWEEN ADJACENT PARALLEL TRUSSES/JOISTS OR GIRDER TRUSSES/FLUSH BEAMS DO NOT EXCEED THE FOLLOWING:

A. ROOF TRUSSES:
1/4" DEAD LOAD

B. ATTIC TRUSSES, & I-JOISTS:
1/8" DEAD LOAD

ABSOLUTE DEAD LOAD DEFLECTION OF ATTIC TRUSSES WHEN ADJACENT TO FLOOR FRAMING BY OTHERS SHALL BE LIMITED TO 3/16". (NOT DIFFERENTIAL DEFLECTION)

VENEER LINTEL SCHEDULE

| SPAN (MAX) | HEIGHT OF VENEER ABOVE LINTEL | STEEL ANGLE SIZE |
|------------|-------------------------------|------------------|
| 3'-0" | 20 FT. MAX | L3"x3"x1/4" |
| | 3 FT. MAX | L3"x3"x1/4" |
| 6'-0" | 12 FT. MAX | L4"x3"x1/4" |
| | 20 FT. MAX | L5"x3"x3/8" |
| 8'-0" | 3 FT. MAX | L4"x4"x1/4" * |
| | 12 FT. MAX | L5"x3"x3/8" * |
| 9'-6" | 16 FT. MAX | L6"x3"x3/8" * |
| | 12 FT. MAX | L6"x3"x3/8" * |

ALL LINTELS:
- SHALL SUPPORT 2 3/4" - 3 1/2" VENEER w/ 40 psf MAXIMUM HEIGHT.
- @ 8" SHALL HAVE 4" MIN. BEARING
- @ 16" SHALL HAVE 8" MIN. BEARING
- @ 16" SHALL NOT BE FASTENED BACK TO HEADER.
- @ 16" SHALL BE FASTENED BACK TO WOOD HEADER IN WALL @ 48" o.c. w/ 1/2" DIA. x 3 1/2" LONG LAG SCREWS IN 2" LONG VERTICALLY SLOTTED HOLES.
- MAX. VENEER HT. APPLIES TO ANY PORTION OF BRICK OVER THE OPENING.
- ALL LINTELS SHALL BE LONG-LEG VERTICAL.
- WHEN SUPPORTING VENEER < 3" WIDE THE EXTERIOR TOE OF THE HORIZONTAL LEG MAY BE CUT IN THE FIELD TO BE 3/4" WIDE OVER THE BEARING LENGTH ONLY. THIS IS TO ALLOW FOR MORTAR JOINT FINISHING.
- SEE STRUCTURAL PLANS FOR ANY LINTEL CONDITION NOT ENCOMPASSED BY THE ABOVE PARAMETERS.
* FOR GREEN VENEER USE L4"x3/4".

GENERAL STRUCTURAL NOTES

FOUNDATION

- DESIGN IS BASED ON 2018 NCSBG-RESIDENTIAL CODE & 2018 IRC WITH SOUTH CAROLINA AMENDMENTS
- FOOTING DESIGN - 2,000 PSF NET ALLOWABLE SOIL BEARING PRESSURE IS ASSUMED. BUILDER/CONTRACTOR MUST VERIFY.
- FASTEN 2x4/6 SILL PLATES TO CONC FND WITH A MINIMUM OF 2 ANCHORS PER PLATE, 12" MAX. FROM PLATE ENDS - UTILIZING:
 - 1/2" DIA. ANCHOR BOLTS @ 6'-0" O.C., 1" MIN. EMBEDMENT
 - F44 ANCHOR STRAPS @ 6'-0" O.C.
- FASTEN 2x10 SILL PLATES TO PRECAST BSMT WALLS WITH A MINIMUM OF 2 ANCHORS PER PLATE, 12" MAX. FROM PLATE ENDS - UTILIZING:
 - 1/2" DIA. BOLTS @ 2'-0" O.C.
- ALL LUMBER EXPOSED TO WEATHER OR IN CONTACT w/ PERIMETER FOUNDATION SHALL BE PRESERVATIVE-TREATED SOUTHERN PINE #2.
- BUILDER TO VERIFY CORROSION-RESISTANCE COMPATIBILITY OF HARDWARE & FASTENERS IN CONTACT w/ PRESERVATIVE-TREATED WOOD. CONTACT LUMBER & HARDWARE SUPPLIERS TO COORD.
- FOUNDATION WALLS & FOOTINGS SHALL BE PLAIN CONCRETE, U.N.O.
- CONCRETE DESIGN BASED ON ACI 318. CONCRETE SHALL ATTAIN THE FOLLOWING MIN. COMPRESSIVE STRENGTHS IN 28 DAYS, U.N.O.:
 - f'c = 4,000 psi: FOUNDATION WALLS
 - 3,000 psi: FOOTINGS & INTERIOR SLABS ON GRADE
 - 3,500 psi: GARAGE & EXTERIOR SLABS ON GRADE
 - fy = 60,000 psi
- BASEMENT FOUNDATION WALL DESIGN BASED ON:
 - 8' OR 9' HEIGHT (AS NOTED ON PLANS)
 - TALLER WALLS MUST BE ENGINEERED.
- BASEMENT WALL DESIGN IS BASED ON 30 OR 45 PCF BACKFILL SOIL. TYPE CLASSIFICATIONS:
 - 30 PCF TYPE (GM, GP, SM, SP)
 - 45 PCF TYPE (GM, GC, SM, SM-SC, ML)
 - IMPORTANT - IF 60 PCF SOIL TYPE (SC, ML-CL, OR CL) IS UTILIZED FOR BACKFILL, CONTACT MULHERN & KULP FOR FURTHER EVALUATION OF FOUNDATION DESIGN.
- BASEMENT WALLS SHALL BE BRACED, PRIOR TO BACKFILLING, BY ADEQUATE TEMPORARY BRACING OR INSTALL 1st FLOOR DECK.
- ALL CONCRETE EXPOSED TO THE WEATHER SHALL NOT HAVE LESS THAN 5% OR MORE THAN 7% AIR ENTRAINMENT.
- ALL FOOTINGS SHALL BEAR BELOW FROST LINE (TYP.) OR 12" MIN IN REGIONS WHERE CODE FROST DEPTH IS NOT APPLICABLE. CONSULT SOILS REPORT OR BUILDING DEPT. FOR MINIMUM DEPTH BELOW GRADE.
- FOOTINGS AND SLABS ON GRADE SHALL BEAR ON VIRGIN SOIL OR 95% COMPACTED FILL.
- PROVIDE CONTROL JOINTS AT ALL INSIDE CORNERS OF SLAB EDGES, AND OTHER LOCATIONS WHERE SLAB CRACKS ARE LIKELY TO DEVELOP.
 - JOINTS SHALL BE LOCATED @ 10'-0" O.C. (RECOMMENDED) OR 15'-0" O.C. (MAXIMUM)
 - JOINT GRID PATTERN SHALL BE AS CLOSE TO SQUARES AS POSSIBLE (1:1 RATIO), WITH A MAXIMUM OF 1:1.5 RATIO
 - CONTROL JOINTS SHALL NOT BE INSTALLED IN STRUCTURAL SLABS
- TYPICAL REINFORCEMENT DETAILS: PROVIDE 3" MIN. CLEAR COVER WHERE CAST AGAINST EARTH, 1 1/2" MIN. CLEAR COVER AGAINST FORMS. LAP ALL REBAR 48 BAR DIAMETERS MIN. (24" FOR #4 BARS) & BEND BARS AND LAP AT CORNERS. PROVIDE 6" HOOK INTO SUPPORTING FOOTINGS WHEN FOOTINGS INTERSECT.
- DIMENSIONS BY OTHERS, BUILDER TO VERIFY.

LEGEND

- INDICATES ROOF TRUSSES @ 24" O.C. PER ROOF. MANUF. (TYP. U.N.O.)
- INDICATES TRUSS OVERFRAMING @ 24" O.C. (TYP. U.N.O.)
- INDICATES 14" DEEP FLOOR I-JOISTS (24" O.C. MAX SPACING). JOIST SERIES AND SPACING SHALL BE THE RESPONSIBILITY OF THE JOIST MANUFACTURER
- INDICATES LOCATIONS OF POTENTIAL TILE FLOOR. JOIST MANUFACTURER SHALL DESIGN FLOOR SYSTEM FOR ADD'L 10 PSF DEAD LOAD AT THESE LOCATIONS.
- INTERIOR BEARING WALL
- BEARING WALL ABOVE (B.W.A.)
- BEAM/HEADER
- METAL HANGER
- INDICATES POST ABOVE (P.A.) PROVIDE SOLID BLOCKING UNDER POST OR JAMB ABOVE.

LATERAL/WALL BRACING & WALL SHEATHING SPECIFICATIONS

THIS MODEL HAS BEEN DESIGNED TO RESIST LATERAL FORCES RESULTING FROM:

120MPH WIND IN 2018 NCSBG-RC & 120MPH WIND IN 2018 IRC
(120 MPH WIND SPEED IN ASCE 7 WIND MAP, PER IRC R301.2.1.1) EXP. B, RISK CAT. 2 & SEISMIC CAT. A/B.

THE DESIGN WAS COMPLETED PER 2015 & 2018 IBC SECTION 1609 & ASCE 7, AS PERMITTED BY R301.1.3 OF THE 2018 NCSBG-RC & 2018 IRC. ACCORDINGLY, THIS MODEL, AS DOCUMENTED AND DETAILED HEREWITHIN, IS ADEQUATE TO RESIST THE CODE REQUIRED LATERAL FORCES.

DESIGN WIND UPLIFT LOADS HAVE BEEN CALCULATED UTILIZING ASCE 7 (ACCEPTED ENGINEERING PRACTICE) AS ALLOWED PER 2018 NCSBG-RC & 2018 IRC SECTION R802.11.1. THIS MODEL HAS BEEN DETAILED WHERE REQUIRED & ENGINEERED TO RESIST THE WIND UPLIFT LOAD PATH PER SECTIONS R602.3.5 & R802.11.

EXT. WALL SHEATHING SPECIFICATION

- 7/16" OSB OR 1/2" PLYWOOD:
FASTEN SHEATHING w/ 2 3/8"x0.113 NAILS @ 6" o.c. AT EDGES & @ 12" o.c. IN THE PANEL FIELD. (TYP. U.N.O.)
- ALL SHEATHING PANELS SHALL BE ORIENTED VERTICALLY (LONG DIRECTION PARALLEL TO STUDS) AND INSTALLED FULL HEIGHT OF SHEAR WALL - OR - 2x HORIZONTAL BLOCKING SHALL BE PROVIDED TO SUPPORT ALL UNSUPPORTED PANEL EDGES & EDGE FASTENING.
- ALL EXT. WALLS SHALL BE CONTINUOUSLY SHEATHED AND ARE CONSIDERED SHEAR WALLS.
- ALT. STAPLE CONNECTION SPEC: 1 3/4" 16 GA STAPLES (1/8" CROWN) @ 3" o.c. AT EDGES & @ 6" o.c. IN FIELD.

3" O.C. EDGE NAILING

- AT DESIGNATED AREAS - FASTEN PANEL EDGES OF WOOD STRUCTURAL WALL SHEATHING TO FRAMING w/ 2 3/8" x 0.113" NAILS @ 3" o.c. AND 12" o.c. IN THE PANEL FIELD. NO STAPLE ALTERNATIVE AVAILABLE AT THIS SPEC. ALL SHEATHING PANELS SHALL BE ORIENTED VERTICALLY (LONG DIRECTION PARALLEL TO STUD) AND INSTALLED FULL HEIGHT OF SHEAR WALL - OR - 2x HORIZONTAL BLOCKING SHALL BE PROVIDED TO SUPPORT UNSUPPORTED PANEL EDGES AND 3" o.c. EDGE FASTENING.

NOTES

- SEE CONNECTION SPECIFICATIONS CHART FOR STANDARD SHEAR TRANSFER DETAILING. IF ADDITIONAL CAPACITY IS REQUIRED BY DESIGN, IT WILL BE SPECIFICALLY NOTED ON PLAN.
- DESIGN ASSUMES 16" O.C. MAX. STUD SPACING, U.N.O.
- ALL STRUCTURAL PANELS ARE TO BE DIRECTLY APPLIED TO STUD FRAMING.
- PRE-MANUFACTURED PANELIZED WALLS: FASTEN TOGETHER END STUDS OF WALL PANELS SHEATHED w/ OSB OR PLYWOOD w/ 3" x 0.120" NAILS @ 4" o.c. (THRU ONE SIDE ONLY)

- INDICATES EXTENT OF INT. OSB SHEARWALL, AND/OR 3" O.C. EDGE NAILING
- INDICATES HOLDOWN

FLOOR FRAMING

- I-JOISTS SHALL BE DESIGNED BY MANUF. TO MEET OR EXCEED L/480 LIVE LOAD DEFLECTION CRITERIA. (EXCLUDES STONE/MARBLE OR WET BED CONSTRUCTED FLOORS - CONTACT MK FOR EXCLUDED FLOOR DESIGNS)
- PER THE GUIDELINES OF THE TILE COUNCIL OF NORTH AMERICA (TCNA HANDBOOK), IT SHALL BE THE FLOOR FINISH INSTALLER'S RESPONSIBILITY TO VERIFY THAT THE FINISHES TO BE INSTALLED MATCH THE DESIGN CRITERIA NOTED ABOVE (UNDER 'DESIGN LOADS').
- FLOOR SYSTEMS & SHEATHING HAVE BEEN DESIGNED TO SUPPORT ADDITIONAL DEAD LOAD FROM CERAMIC TILE (EXCLUDING MARBLE OR STONE). HOWEVER, IT SHALL BE THE FLOOR FINISH INSTALLER'S RESPONSIBILITY TO PROVIDE PROPER UNDERLAYMENT, UNCOUPLING MEMBRANE AND MORTAR/GROUT PER THE ASSEMBLY DESIGNATIONS IN THE TCNA HANDBOOK (TILE COUNCIL OF NORTH AMERICA).
- AT I-JOIST FLOORS, PROVIDE 1" MIN. OSB RIM BOARD.
- METAL HANGERS SHALL BE SPECIFIED BY MANUFACTURER, U.N.O.
- I-JOIST SHOP DNGS. SHALL BE SUBMITTED TO ARCH. & ENG. FOR REVIEW AND APPROVAL PRIOR TO FABRICATION OR DELIVERY.
- FLOOR SHEATHING SHALL BE 23/32" A.P.A. RATED 'STUD-I-FLOOR' 24" o.c. EXPOSURE 1 (OR APPROVED EQUAL) WITH TONGUE AND GROOVE EDGES. FASTEN TO FRAMING MEMBERS w/ GLUE AND:
 - 2 1/2" x 0.131" NAILS @ 6" o.c. @ PANEL EDGES & @ 12" o.c. FIELD.
 - 2 3/8" x 0.120" NAILS @ 4" o.c. @ PANEL EDGES & @ 8" o.c. FIELD.
 - 2 3/8" x 0.113" NAILS @ 3" o.c. @ PANEL EDGES & @ 6" o.c. IN FIELD.

ROOF FRAMING

- ROOF SHEATHING SHALL BE 7/16" A.P.A. RATED SHEATHING 24/16 EXPOSURE 1 (OR APPROVED EQUAL). FASTEN TO FRAMING MEMBERS:
 - w/ 2 1/2" x 0.131" NAILS @ 6" o.c. @ PANEL EDGES & @ 12" o.c. FIELD.
 - w/ 2 3/8" x 0.120" NAILS @ 4" o.c. @ PANEL EDGES & @ 8" o.c. FIELD.
 - w/ 2 3/8" x 0.113" NAILS @ 3" o.c. @ PANEL EDGES & @ 6" o.c. FIELD.
- WITHIN 48" OF ALL ROOF EDGES, RIDGES, & HIPs FASTEN ROOF SHEATHING FIELDS PER EDGE NAILING SPEC.
- FASTEN EACH ROOF TRUSS TO TOP PLATE w/ USP RTTA CLIP (OR APPROVED EQUAL) @ ALL BEARING POINTS. PROVIDE (2) RTTA CLIPS AT 2-PLY GIRDER TRUSSES, (3) RTTA CLIPS AT 3-PLY GIRDER TRUSSES & ROOF BEAMS - AT ALL BEARING POINTS.
- METAL HANGERS SHALL BE SPECIFIED BY THE MANUFACTURER, U.N.O.
- ROOF TRUSS SHOP DNGS. SHALL BE SUBMITTED TO ARCH & ENG. FOR REVIEW AND APPROVAL PRIOR TO FABRICATION OR DELIVERY.
- ERECT AND INSTALL ROOF TRUSSES PER WTCA & TP1'S BC01 I *GUIDE TO GOOD PRACTICE FOR HANDLING, INSTALLING & BRACING OF METAL PLATE CONNECTED WOOD TRUSSES.*
- SUPPORT SHORT SPAN ROOF TRUSSES w/ 2x4 LEDGER FASTENED TO FRAMING w/ (2) 3" x 0.120" NAILS @ 16" o.c. (UP TO 1" SPAN).

MEANS & METHODS NOTES

THE STRUCTURE IS DESIGNED TO BE SELF SUPPORTING AND STABLE AFTER THE BUILDING IS FINISHED AND ALL PLAN, DETAIL, AND NOTE SPECIFICATIONS HAVE BEEN COMPLETED. IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO DETERMINE THE ERECTION PROCEDURES AND SEQUENCE TO INSURE THE SAFETY OF THE BUILDING AND ITS COMPONENTS DURING CONSTRUCTION. THIS INCLUDES, BUT IS NOT LIMITED TO, THE ADDITION OF NECESSARY SHORING, SHEETING, TEMPORARY BRACING, GUYS, AND TIE-DOWNS. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SHORING AND BRACING REQUIRED TO STABILIZE AND PROTECT EXISTING AND ADJACENT STRUCTURES AND SYSTEMS DURING COURSE OF DEMOLITION AND CONSTRUCTION OF THE PROJECT.

STRUCTURAL DESIGN AND SPECIFICATIONS ASSUME THAT ALL SUPPORTING AND NON-SUPPORTING ELEMENTS IN CONTACT WITH FLOOR FRAMING ARE LEVEL, INCLUDING, BUT NOT LIMITED TO; FOUNDATIONS, SLABS ON GRADE, BEAMS, WALLS, AND NON-BEARING ELEMENTS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY LEVELNESS AND MAKE ADJUSTMENTS AS NECESSARY, INCLUDING CONSIDERATION OF THOSE AREAS THAT MAY BE WITHIN CONTRACTUAL, INDUSTRY, OR WARRANTY TOLERANCES.

GENERAL STRUCTURAL NOTES

- DESIGN IS BASED ON 2018 NCSBG-RESIDENTIAL CODE & 2018 IRC WITH SOUTH CAROLINA AMENDMENTS
- WOOD FRAME ENGINEERING IS BASED ON NDS, 'NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION' - LATEST EDITION.
- DESIGN LOADS:
 - ROOF: LIVE = 20 PSF, DEAD = 7 PSF T.C., 10 PSF B.C., LOAD DURATION FACTOR = 1.25
 - FLOOR: LIVE = 40 PSF (30 PSF @ SLEEPING AREAS), DEAD = 10 PSF (I-JOISTS)
 - ADD'L 10 PSF @ CERAMIC TILE IN BATHS & LAUND.
 - SOIL: 2,000 PSF ASSUMED ALLOWABLE BEARING PRESSURE (TO BE VERIFIED BY BUILDER)

GENERAL FRAMING

- ALL TYP. NAIL FASTENER REQUIREMENTS ARE NOTED IN STANDARD CONNECTIONS TABLE (IRC TABLE R602.3(I)) OR ON PLANS. ALL NAILS SPECIFIED ARE MIN DIAMETER AND LENGTH REQUIRED FOR CONNECTION. ALL HANGER NAILS SHALL BE INSTALLED PER MANUFACTURER'S REQUIREMENTS FOR MAX CHARTED CAPACITY. NOTE: HANGERS USE COMMON NAIL DIAMETERS NOT TYPICAL FRAMING GUN NAILS.
- EXT. & INT. BEARING WALLS SHALL BE 2x4 OR 2x6 (AS SHOWN ON PLANS) @ 16" o.c. SPF/SP *STUD* GRADE LUMBER, OR BETTER, U.N.O.
 - WALLS OVER 12' TALL SHALL BE PER PLAN.
- ALL INTERIOR BEARING WALLS ARE ASSUMED TO BE SHEATHED w/ GYP WALL BOARD (ONE SIDE MIN.) OR PROVIDE MID HT. BLOCKING.
- ALL HEADERS, BEAMS & OTHER STRUCTURAL MEMBERS SHALL BE SPRUCE-PINE-FIR #2 (SPF) OR SOUTHERN PINE #2 (SP) LUMBER, OR BETTER. SUPPORT ALL HEADERS/ BEAMS w/ (1)2x JACK STUD & (1)2x KING STUD, MINIMUM.
 - THE NUMBER OF STUDS SPECIFIED AT A SUPPORT INDICATES THE NUMBER OF JACK STUDS REQUIRED, U.N.O..
- ALL NON-BEARING INTERIOR STUD WALLS SHALL BE CONSTRUCTED WITH 2x STUD* GRADE MEMBERS SPACED @ 24" o.c. (MAX., U.N.O.)
 - HEADERS IN NON-LOAD BEARING WALLS SHALL BE: (1)2x4/6 FLAT @ OPENINGS UP TO 4', (2)2x4/6 FLAT UP TO 8'.
- ALL FRAMING LUMBER SHALL BE DRIED TO 15% MC (KD-15).
- ENGINEERED LUMBER BEAMS TO MEET OR EXCEED THE FOLLOWING:
 - LVL' - Fb=2600 psi; Fv=285 psi; E=2.0x10^6 psi
- ENGINEERED LUMBER POSTS TO MEET OR EXCEED THE FOLLOWING:
 - LVL' - Fb=2400 psi; FcII=2500 psi; E=1.8x10^6 psi
- FOR 2 & 3 PLY BEAMS OF EQUAL 1 3/4" MAX. WIDTH, FASTEN PLYS TOGETHER WITH 3 ROWS OF 3"x0.120" NAILS @ 24" o.c. OR 2 ROWS USP W635 SCREWS (OR 3/8" TRUSSLOK SCREWS) @ 16" o.c. USE A MINIMUM OF 4 ROWS FOR BEAM DEPTHS OF 14" OR GREATER. APPLY FASTENING AT BOTH FACES FOR 3-PLY CONDITION. LOCATE TOP & BOTTOM NAILS/SCREWS 2" FROM EDGE. SOLID 3 1/2" OR 5 1/4" BEAMS ARE ACCEPTABLE. USE 2 ROWS OF NAILS FOR 2x6 & 2x8 MEMBERS.
- FOR 4 PLY BEAMS OF EQUAL 1 3/4" MAX. WIDTH, FASTEN PLYS TOGETHER WITH 3 ROWS OF USP W66 SCREWS (OR 6 3/4" TRUSSLOK SCREWS) @ 16" o.c. USE A MINIMUM OF 4 ROWS FOR BEAM DEPTHS OF 14" OR GREATER. APPLY FASTENING AT BOTH FACES (ONE SIDE ONLY FOR TRUSSLOK SCREWS). LOCATE TOP AND BOTTOM SCREWS 2" FROM EDGE. A SOLID 1" BEAM IS ACCEPTABLE.
- PROVIDE SOLID BLOCKING IN FLOOR SYSTEM UNDER ALL POSTS CONTINUOUS TO FND/BEARING. BLOCKING TO MATCH POST ABOVE.
- ALL EXTERIOR 4x4 WOOD POSTS SHALL HAVE USP BC522-4 CAP & PA44E BASE, U.N.O.
- CORROSION NOTES:
 - BUILDER RESPONSIBLE TO DETERMINE CORROSION-RESISTANCE REQUIREMENTS AND COMPATIBILITY OF HARDWARE, FASTENERS AND CONNECTORS FOR ENVIRONMENTAL EXPOSURE AND IN CONTACT w/ PRESERVATIVE-TREATED WOOD OF ACTUAL FINAL CONDITIONS AND SOURCED MATERIALS. CONTACT LUMBER & HARDWARE SUPPLIERS TO COORD.
 - ALL FASTENERS AND CONNECTORS EXPOSED TO SALT WATER (WITHIN 300' OF SALT WATER SHORELINE, INCLUDING VENTED SPACES) SHALL BE STAINLESS STEEL.

Duncans Lot 56

Mulhern+Kulp project number:
256-21010

project mgr: **SMK**
 drawn by: **MJF**
 issue date: **10-26-2021**

REVISIONS:

| | |
|--|----------|
| date: | initial: |
| 11/22/21 | JPP |
| MISSED PLANS ADDED | |
| 8/21/2023 | RAP |
| ADD OPT. FULL HEIGHT BRICK TO REAR 4 SIDES | |

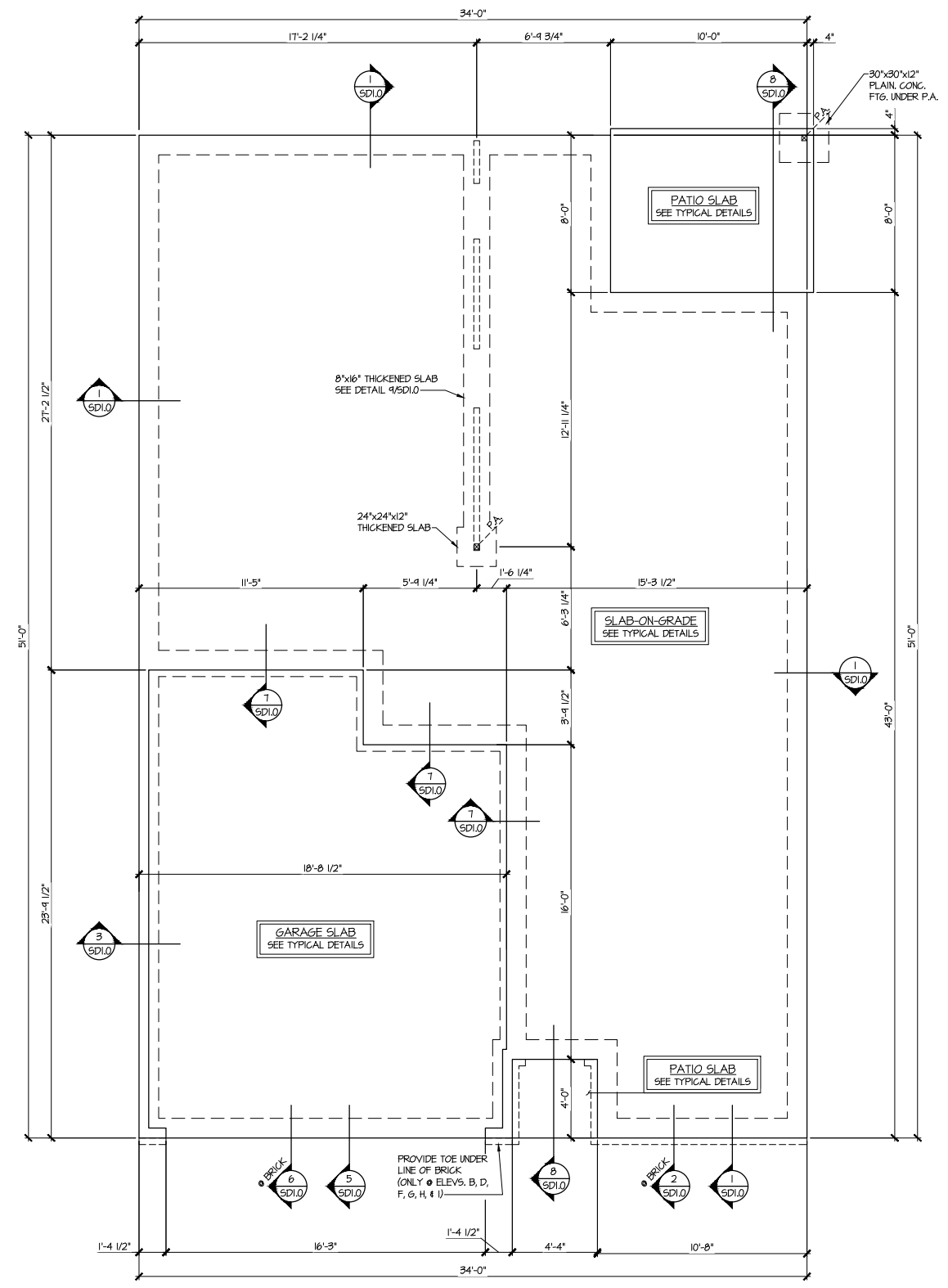
SMITH DOUGLAS
 HOMES

**Duncans
 Lot 56**

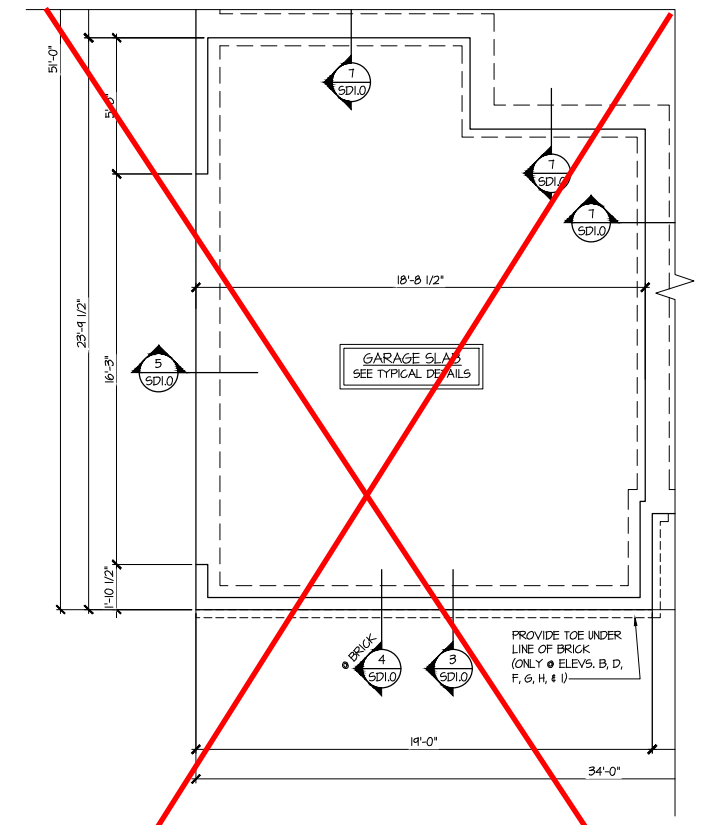
REFER TO S.O.0 FOR TYPICAL
 STRUCTURAL NOTES & SCHEDULES

MONO-SLAB FOUNDATION
 CALDWELL MODEL
 120 MPH WIND ZONE
 NORTH CAROLINA

sheet:
S1.0M



1 MONO-SLAB FOUNDATION PLAN
 SCALE: 1/4"=1'-0" ON 22x34
 1/8"=1'-0" ON 11x17
 ALL ELEV. SIM.



2 PARTIAL MONO-SLAB FOUNDATION PLAN
 SCALE: 1/4"=1'-0" ON 22x34
 1/8"=1'-0" ON 11x17
 ALL ELEV. SIM.
 SIDE ENTRY GARAGE

LEGEND

- R.T. INDICATES ROOF TRUSSES @ 24" O.C. PER ROOF. MANIF. (TYP. UNO.)
- O.F. INDICATES TRUSS OVERFRAMING @ 24" O.C. (TYP. UNO.)
- F.J. INDICATES 14" DEEP FLOOR I-JOISTS (24" O.C. MAX SPACING). JOIST SERIES AND SPACING SHALL BE THE RESPONSIBILITY OF THE JOIST MANUFACTURER
- INDICATES LOCATIONS OF POTENTIAL TILE FLOOR. JOIST MANUFACTURER SHALL DESIGN FLOOR SYSTEM FOR ADDL. 10 PSF DEAD LOAD AT THESE LOCATIONS.
- INTERIOR BEARING WALL
- BEARING WALL ABOVE (B.W.A.)
- BEAM/HEADER
- M.L. METAL HANGER
- INDICATES POST ABOVE (P.A.) PROVIDE SOLID BLOCKING UNDER POST OR JAMB ABOVE.

Mulhern+Kulp project number:
256-21010

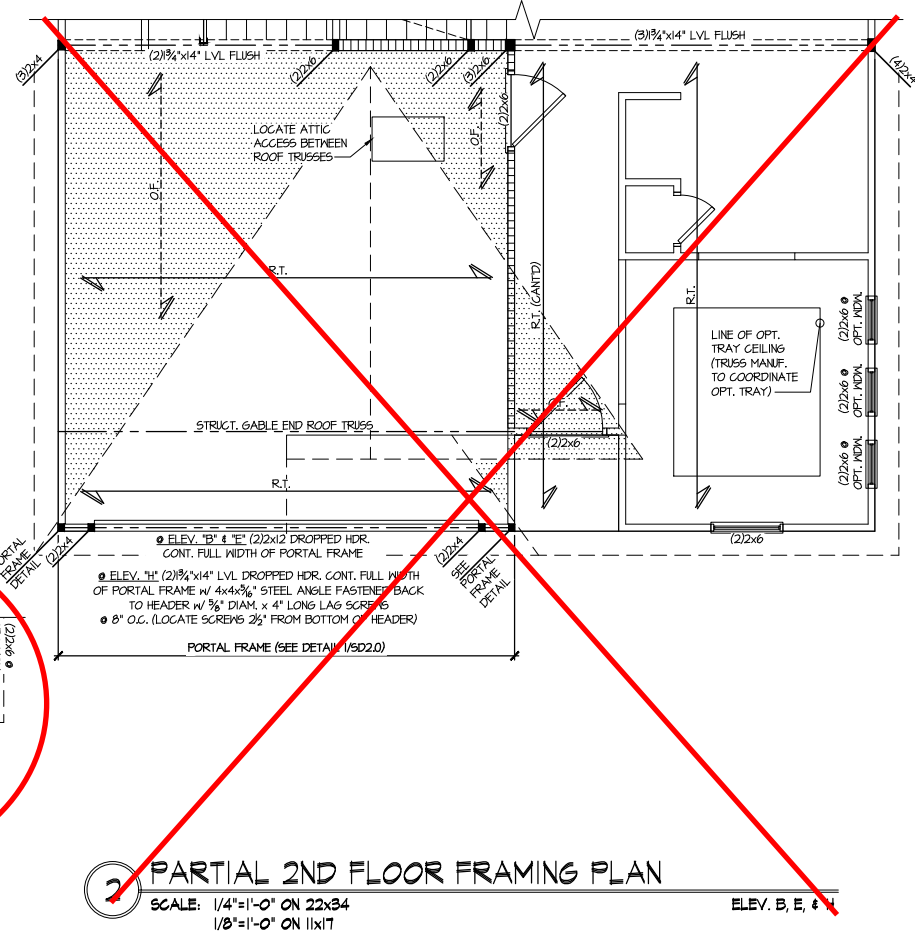
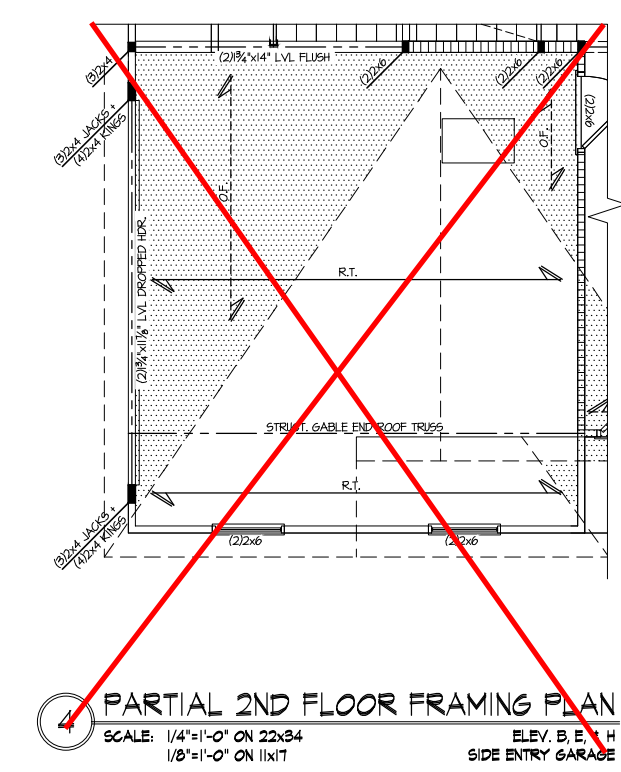
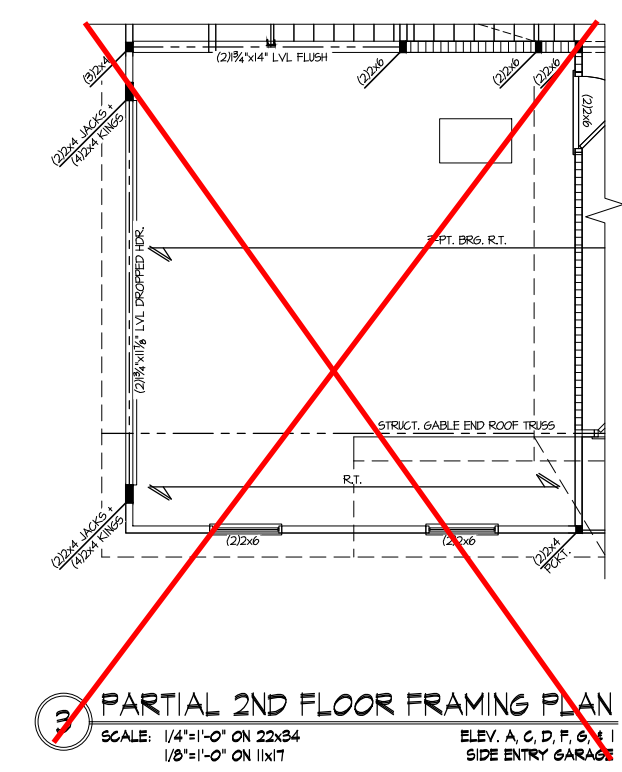
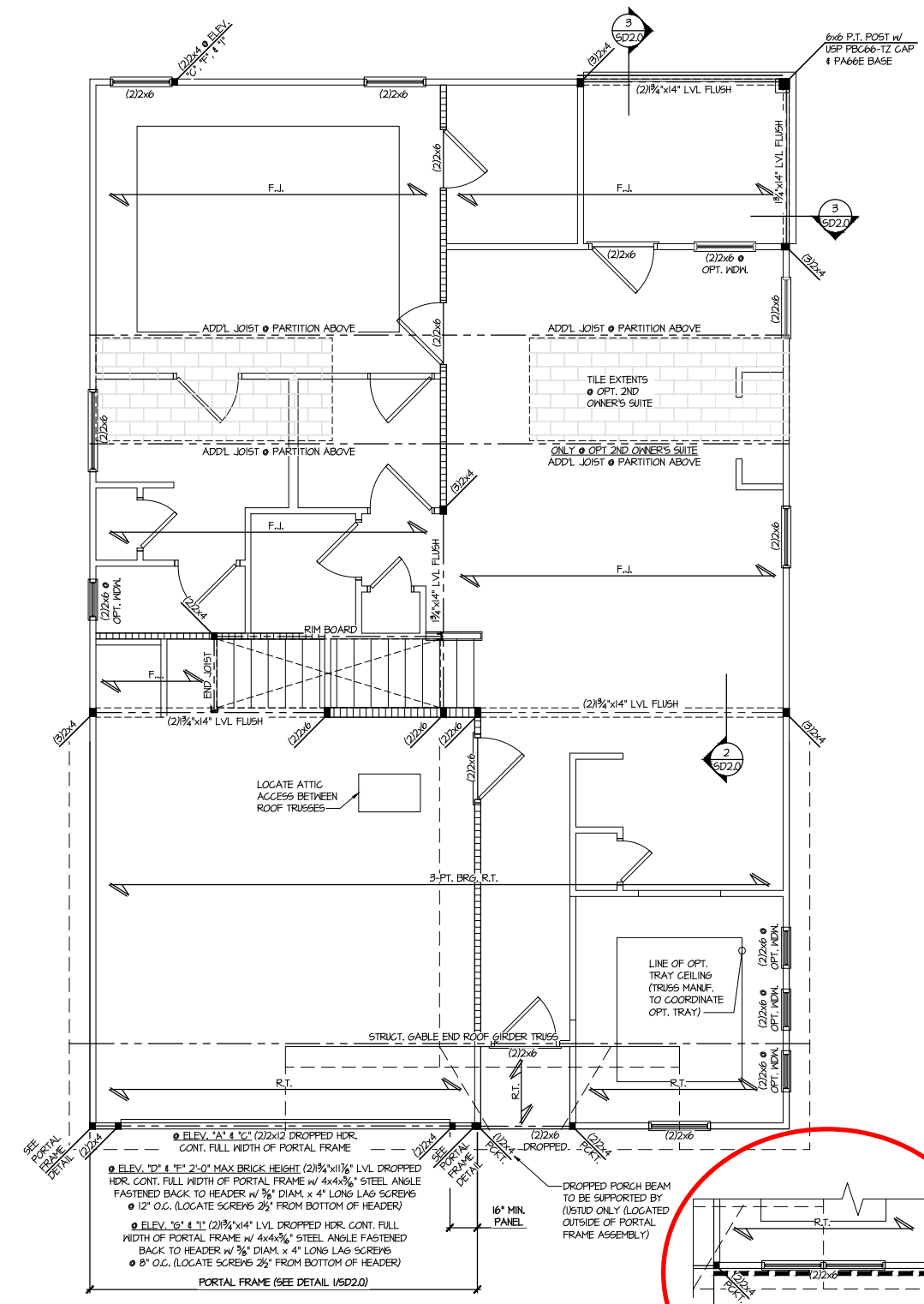
project mgr: **SMK**
 drawn by: **MJF**
 issue date: **10-26-2021**

REVISIONS:

| | |
|--|----------|
| date: | initial: |
| 11/22/21 | JPP |
| MISSED PLANS ADDED | |
| 8/21/2023 | RAP |
| ADD OPT. FULL HEIGHT BRICK TO REAR & SIDES | |

SMITH DOUGLAS
 HOMES

ROOF FRAMING PLAN
 CALDWELL MODEL
 120 MPH WIND ZONE
 NORTH CAROLINA



**Duncans
 Lot 56**

THIS LEVEL HAS BEEN DESIGNED FOR 9'-1" PLATE HEIGHT
 REFER TO S0.0 FOR TYPICAL STRUCTURAL NOTES & SCHEDULES

LEGEND

- R.T. INDICATES ROOF TRUSSES @ 24" O.C. PER ROOF. MANUF. (TYP. UNO.)
- OF INDICATES TRUSS OVERFRAMING @ 24" O.C. (TYP. UNO.)
- F.J. INDICATES 14" DEEP FLOOR I-JOISTS (24" O.C. MAX SPACING). JOIST SERIES AND SPACING SHALL BE THE RESPONSIBILITY OF THE JOIST MANUFACTURER
- INDICATES LOCATIONS OF POTENTIAL TILE FLOOR. JOIST MANUFACTURER SHALL DESIGN FLOOR SYSTEM FOR ADDL. 10 PSF DEAD LOAD AT THESE LOCATIONS.
- INTERIOR BEARING WALL
- BEARING WALL ABOVE (B.W.A.)
- BEAM/HEADER
- JL METAL HANGER
- * INDICATES POST ABOVE (P.A.) PROVIDE SOLID BLOCKING UNDER POST OR JAMB ABOVE.

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 drawn by: **MJF**
 issue date: **10-26-2021**

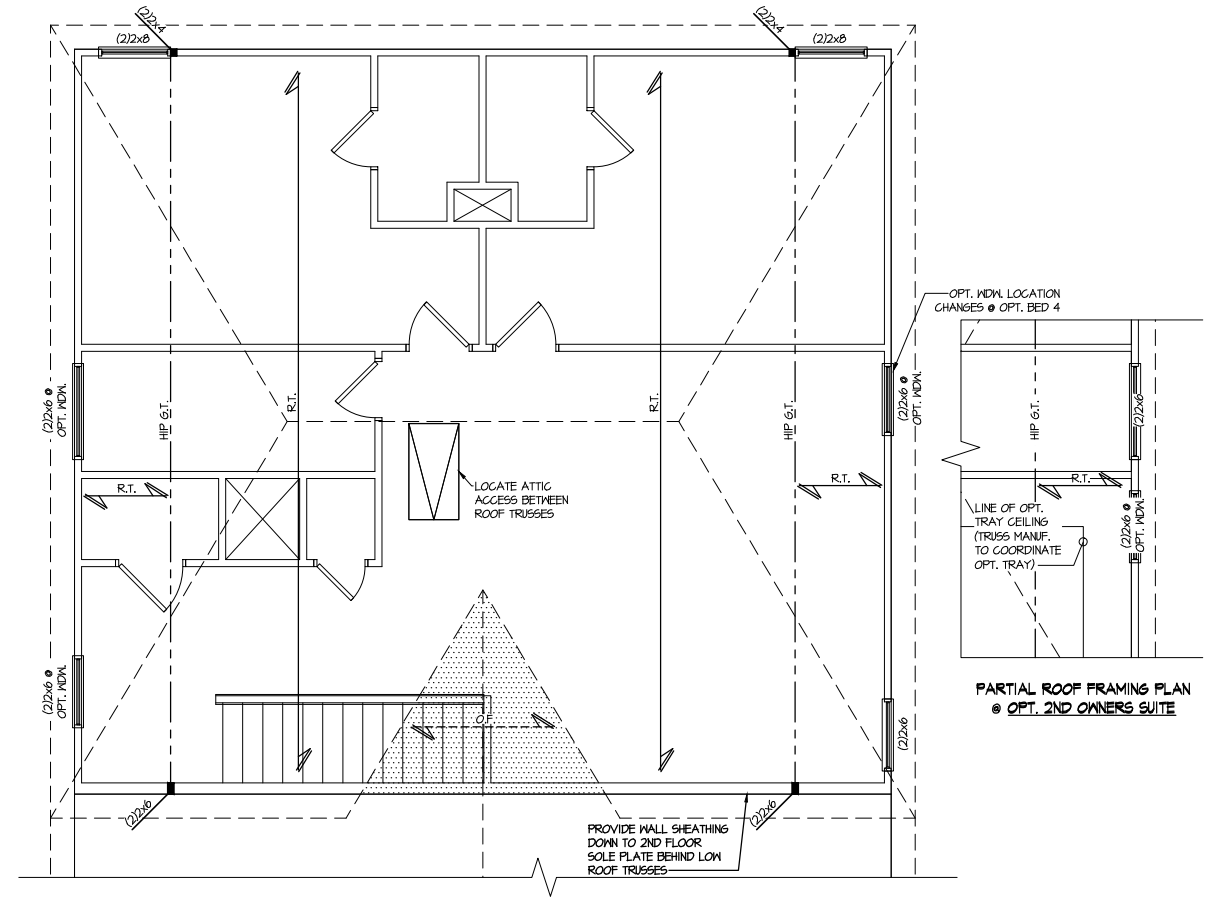
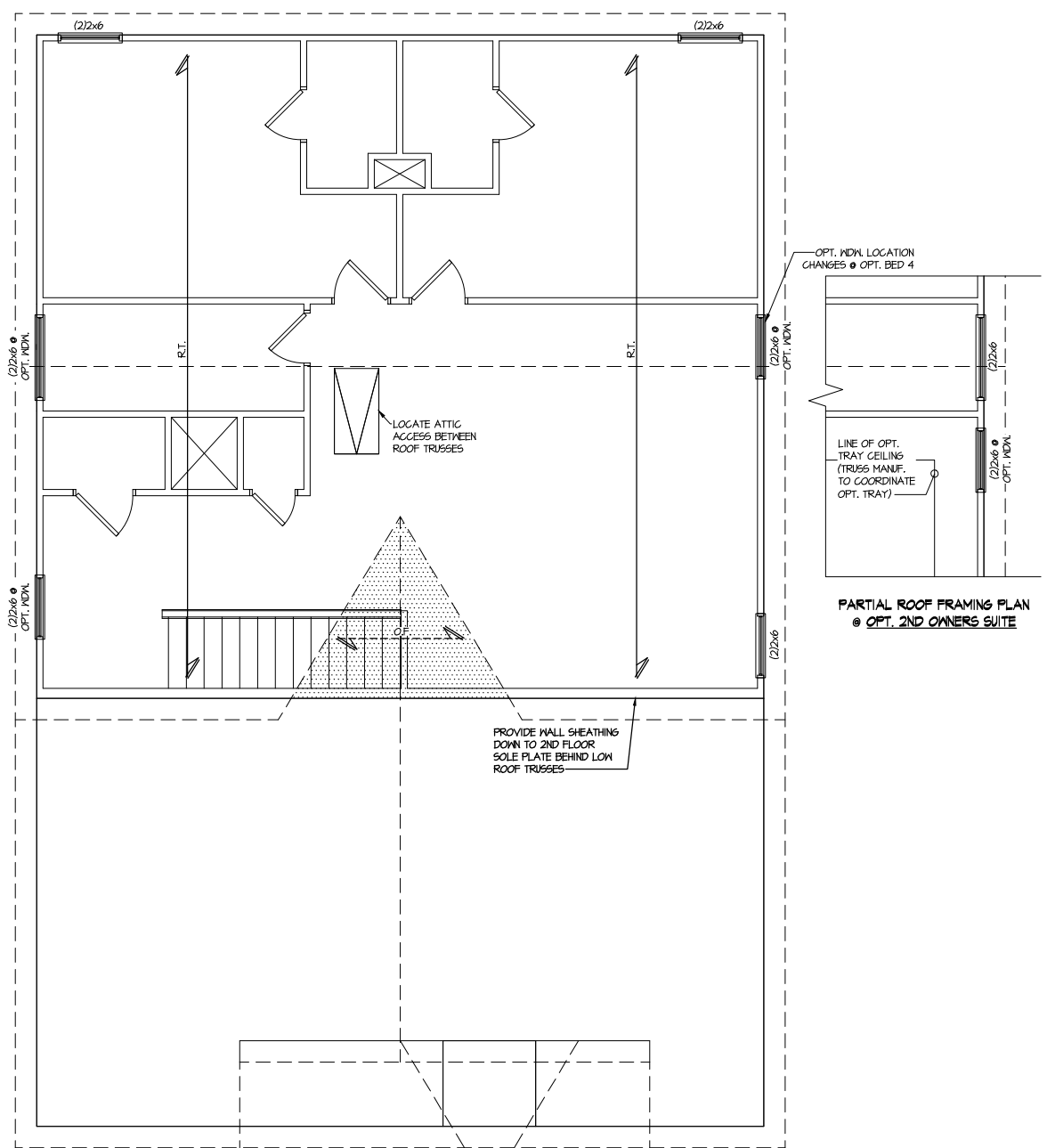
REVISIONS:

| | |
|---|----------|
| date: | initial: |
| 11/22/21 | JPP |
| ADDED PLANS | |
| 8/21/2023 | RAP |
| ADD OPT. FULL HEIGHT BRCK TO REAR 4 SIDES | |

SMITH DOUGLAS
 HOMES

ROOF FRAMING PLAN
 CALDWELL MODEL
 120 MPH WIND ZONE
 NORTH CAROLINA

sheet:
S3.0M



2 PARTIAL ROOF FRAMING PLAN
 SCALE: 1/4"=1'-0" ON 22x34
 1/8"=1'-0" ON 11x17
 ELEV. C, F, & I
 SEE ELEV. A FOR ADDL INFO

1 ROOF FRAMING PLAN
 SCALE: 1/4"=1'-0" ON 22x34
 1/8"=1'-0" ON 11x17
 ELEV. A, D, & G

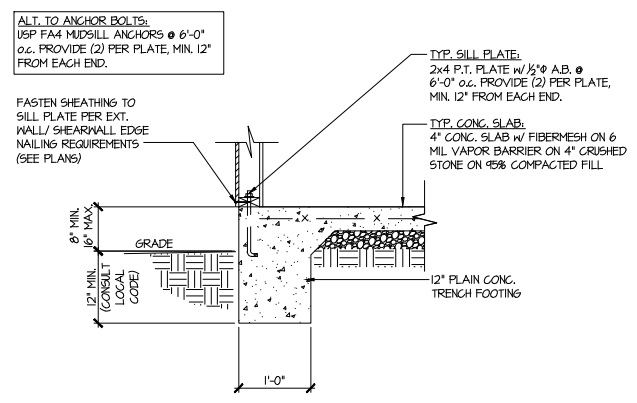
**Duncans
 Lot 56**

THIS LEVEL HAS BEEN DESIGNED FOR 9'-1" PLATE HEIGHT

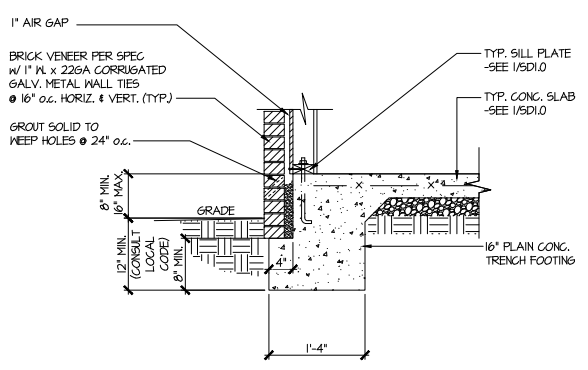
REFER TO S0.0 FOR TYPICAL STRUCTURAL NOTES & SCHEDULES

LEGEND

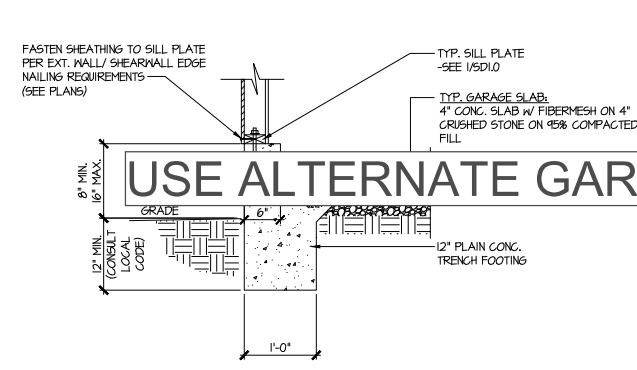
- R.T. INDICATES ROOF TRUSSES @ 24" O.C. PER ROOF. MANUF. (TYP. UNO.)
- O.F. INDICATES TRUSS OVERFRAMING @ 24" O.C. (TYP. UNO.)
- F.J. INDICATES 14" DEEP FLOOR I-JOISTS (24" O.C. MAX SPACING). JOIST SERIES AND SPACING SHALL BE THE RESPONSIBILITY OF THE JOIST MANUFACTURER
- INDICATES LOCATIONS OF POTENTIAL TILE FLOOR. JOIST MANUFACTURER SHALL DESIGN FLOOR SYSTEM FOR ADDL. 10 PSF DEAD LOAD AT THESE LOCATIONS.
- INTERIOR BEARING WALL
- BEARING WALL ABOVE (B.W.A.)
- BEAM/HEADER
- METAL HANGER
- INDICATES POST ABOVE (P.A.) PROVIDE SOLID BLOCKING UNDER POST OR JAMB ABOVE.



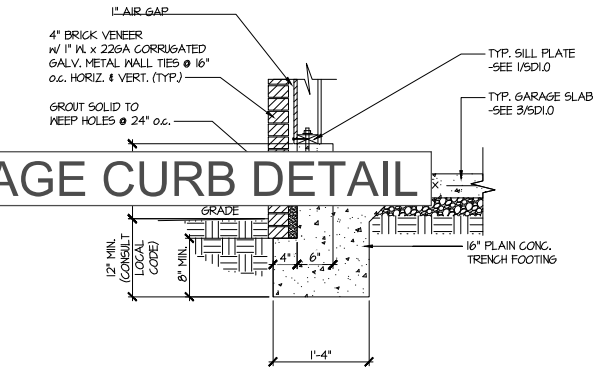
1 TYPICAL SLAB ON GRADE PERIMETER FOOTING



2 TYPICAL SLAB ON GRADE PERIMETER FOOTING w/ BRICK VENEER

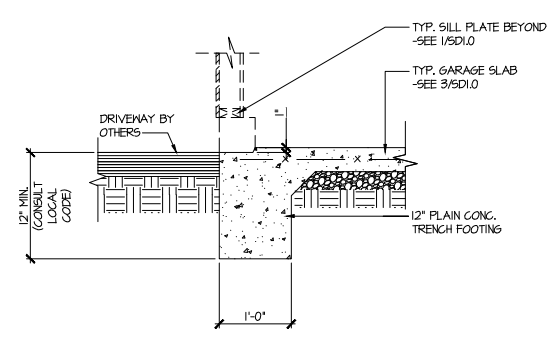


3 TYPICAL SLAB ON GRADE GARAGE PERIMETER FOOTING

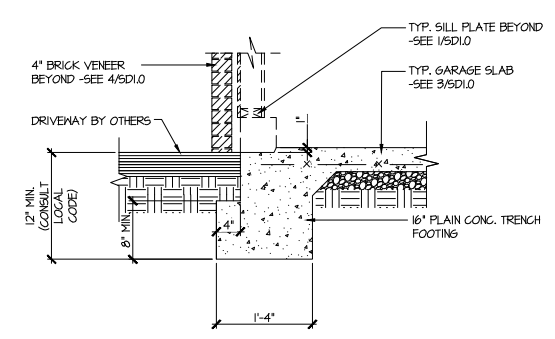


4 TYPICAL SLAB ON GRADE GARAGE PERIMETER FOOTING w/ BRICK VENEER

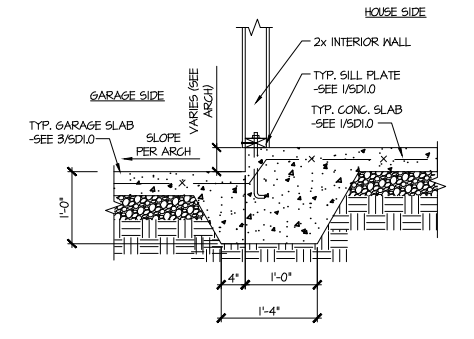
USE ALTERNATE GARAGE CURB DETAIL



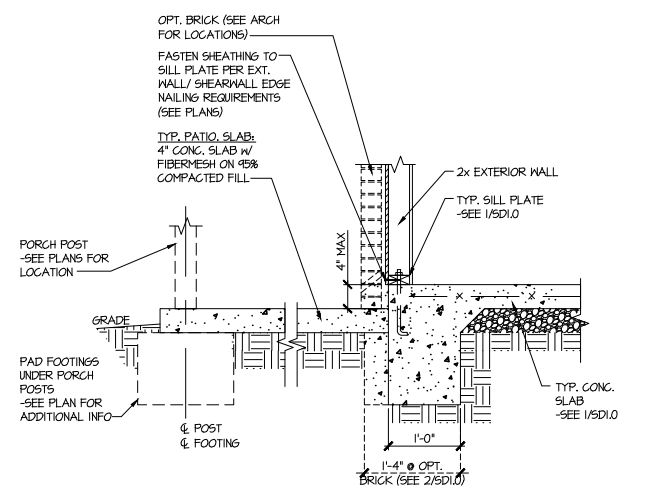
5 TYPICAL SLAB ON GRADE GARAGE ENTRY @ PERIMETER FOOTING



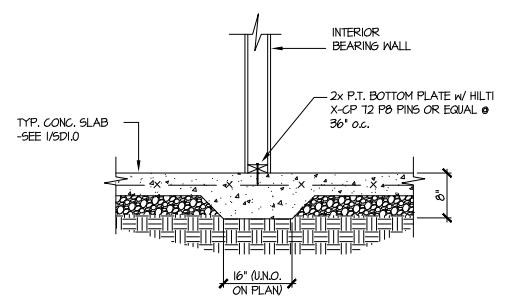
6 TYPICAL SLAB ON GRADE GARAGE ENTRY @ PERIMETER FOOTING w/ BRICK VENEER



7 TYPICAL MONOLITHIC INTERIOR GARAGE FOOTING



8 TYPICAL SLAB ON GRADE PERIMETER FOOTING @ PORCH/PATIO



9 TYPICAL THICKENED SLAB @ INTERIOR BEARING WALL

MULHERN+KULP
 RESIDENTIAL STRUCTURAL ENGINEERING
 3025 Sandhills Parkway, Suite 105 - Alpharetta, GA 30022
 770-777-8974 - mulhern+kulp.com
 NC License # C-3825

Mulhern+Kulp project number:
 256-21010

project mgr: SMK
 drawn by: MJF
 issue date: 10-26-2021

REVISIONS:

| | |
|--|----------|
| date: | initial: |
| 11/22/21 | JPP |
| 8/21/2023 | RAP |
| ADD OPT. FULL HEIGHT BRICK TO REAR & SIDES | |

SMITH DOUGLAS
 HOMES

FOUNDATION DETAILS
 CALDWELL MODEL
 120 MPH WIND ZONE
 NORTH CAROLINA

Duncans
 Lot 56

sheet:
SD1.0



MULHERN+KULP

RESIDENTIAL STRUCTURAL ENGINEERING

3625 Brookside Parkway, Suite 165, Alpharetta, GA 30022 ▶ p 770-777-0074 ▶ mulhernkulp.com

August 18, 2023

Jody Hunt
Director of Product Development
SMITH DOUGLAS HOMES
110 Village Trail, Suite 215
Woodstock, GA 30188

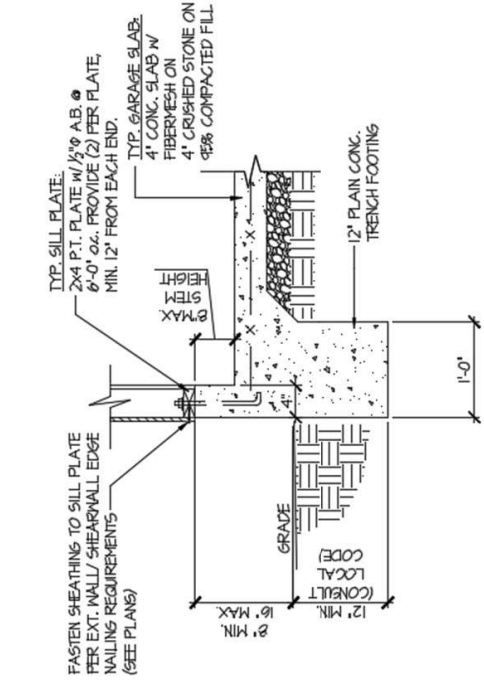
ALTERNATE GARAGE CURB DETAIL

Smith Douglas Homes

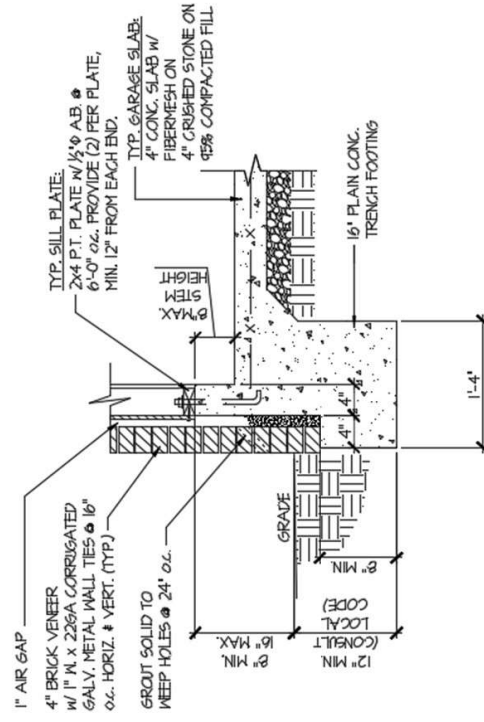
Reference
Current Structural Plans prepared by Mulhern & Kulp

Jody:

Pursuant to your request, we have prepared this letter to address the “Alternate Garage Curb Details”, prepared by Mulhern & Kulp for Smith Douglas Homes shown below. The foundation details shown below call for a 4” wide curb with a maximum of 8” stem wall height; these are an acceptable alternative to the 6” wide curb at the garage per M&K foundation details 3 & 4 on sheet SD-1.0 at 2x4 garage wall locations.



(A) TYPICAL SLAB ON GRADE GARAGE PERIMETER FOOTING



(B) TYPICAL SLAB ON GRADE GARAGE PERIMETER FOOTING

Please feel free to call if you have any questions.

Respectfully,

MULHERN & KULP STRUCTURAL ENGINEERING, INC.

NC License # C-3825

Shaun M. Kreidel, P.E. Project Manager + Atlanta Office Director



Signature + Seal 08/18/2023

Mulhern+Kulp project number:
 256-21010

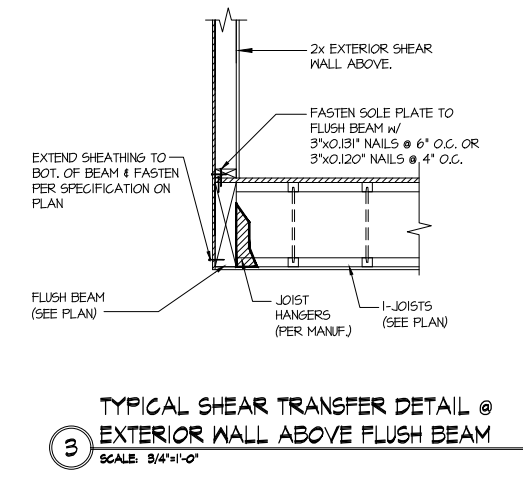
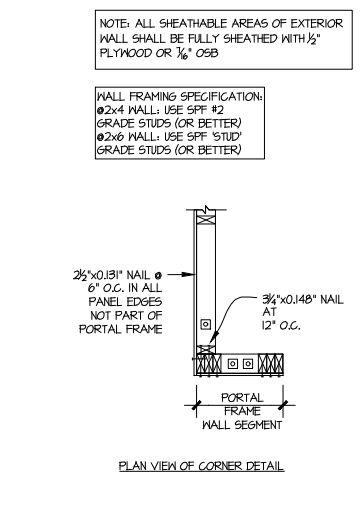
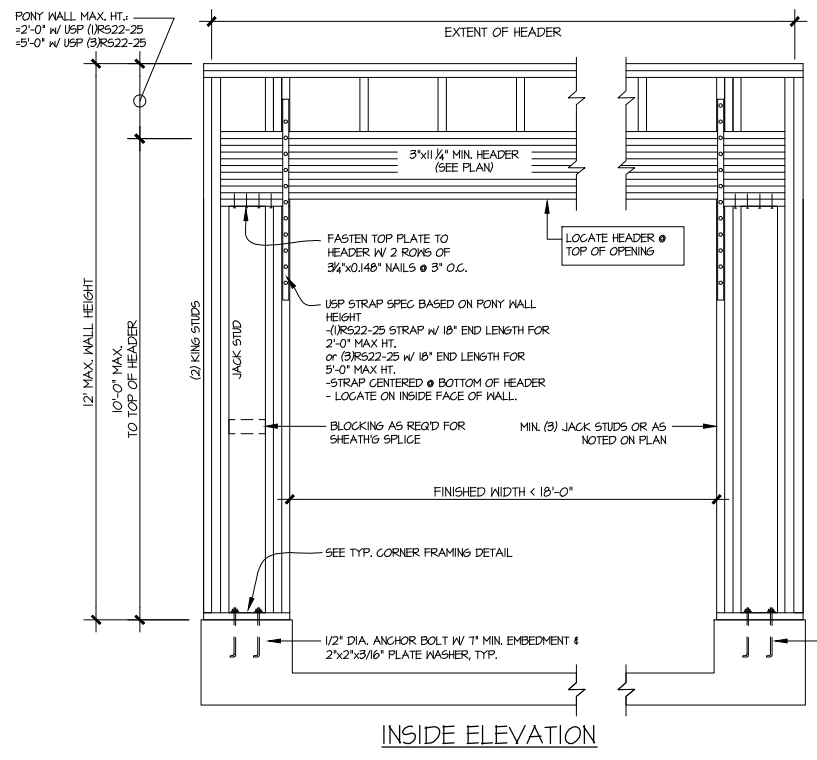
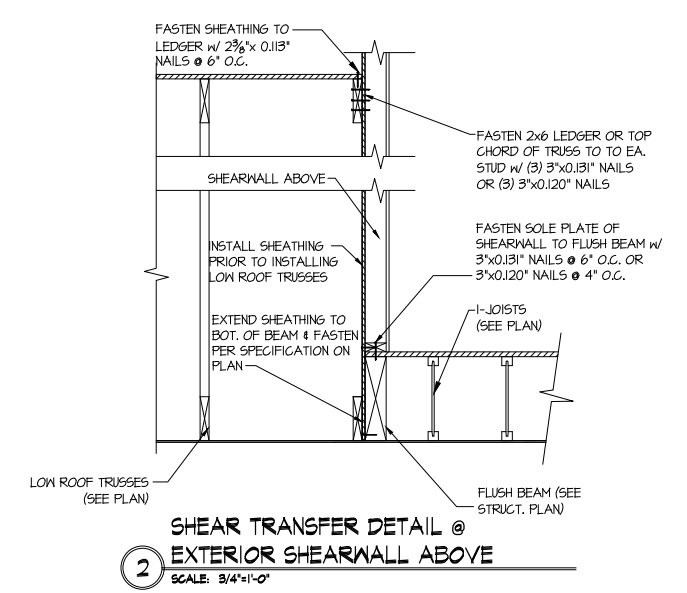
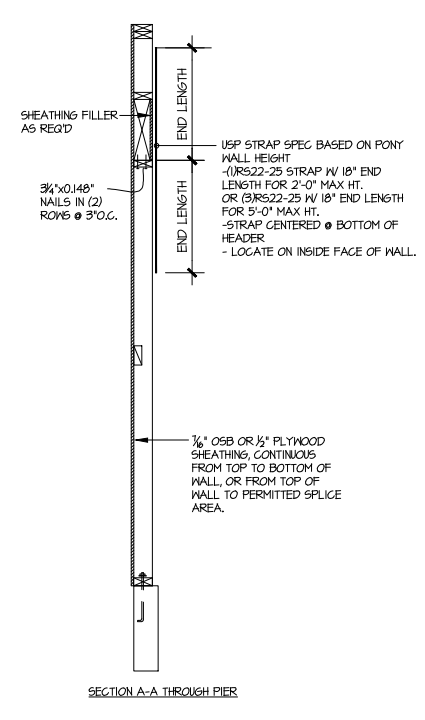
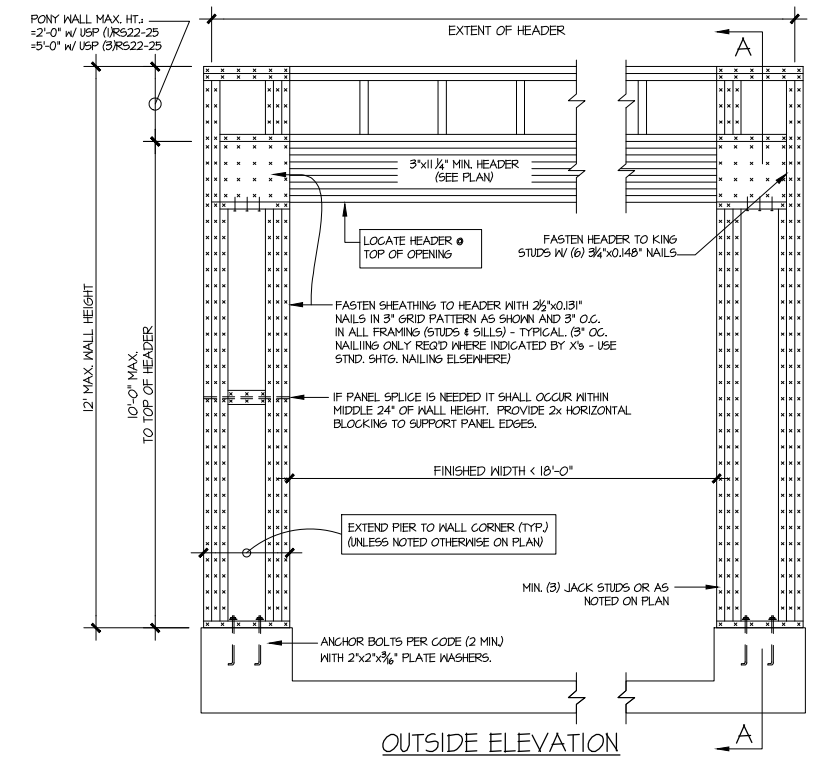
project mgr: SMK
 drawn by: MJF
 issue date: 10-26-2021

REVISIONS:

| | |
|---|----------|
| date: | initial: |
| 11/22/21 | JPP |
| REMOVED PLANS ADDED | |
| 8/21/2023 | RAP |
| ADD OPT. FULL HEIGHT BRCK TO REAR & SIDES | |

SMITH DOUGLAS
 HOMES

FRAMING DETAILS
 CALDWELL MODEL
 120 MPH WIND ZONE
 NORTH CAROLINA



ALTERNATIVES TO 1/2" DIA. ANCHOR BOLT:
 1) 1/2" DIA. THREADED ROD EPOXY SET W/4 1/2" EMB. (MIN UTILIZING HILTI HY200 EPOXY ANCHORING SYSTEM (OR EQUAL)

1 GARAGE PORTAL FRAME BRACING ELEVATION
 SCALE: N.T.S. BOTH SIDES OF GARAGE DOOR
 120 MPH WIND SPEED (ULT)



Mulhern+Kulp project number:
256-21010

project mgr: **SMK**
 drawn by: **MJF**
 issue date: **10-26-2021**

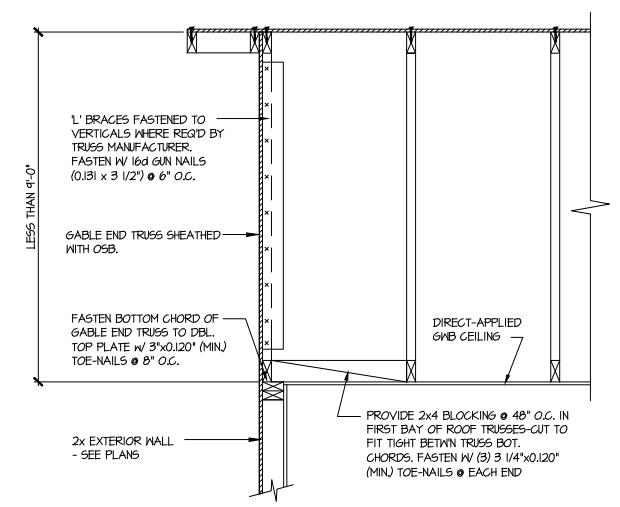
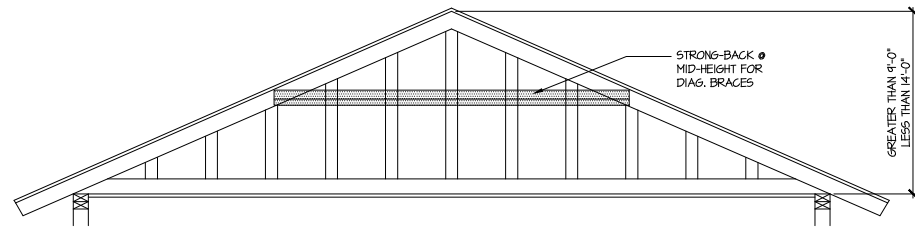
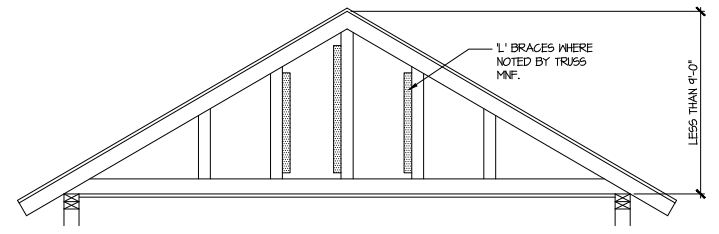
REVISIONS:

| | |
|--|----------|
| date: | initial: |
| 1/22/21 | JPP |
| 8/21/2023 | RAP |
| ADD OPT. FULL HEIGHT BRACK TO REAR 4 SIDES | |

SMITH DOUGLAS
 HOMES

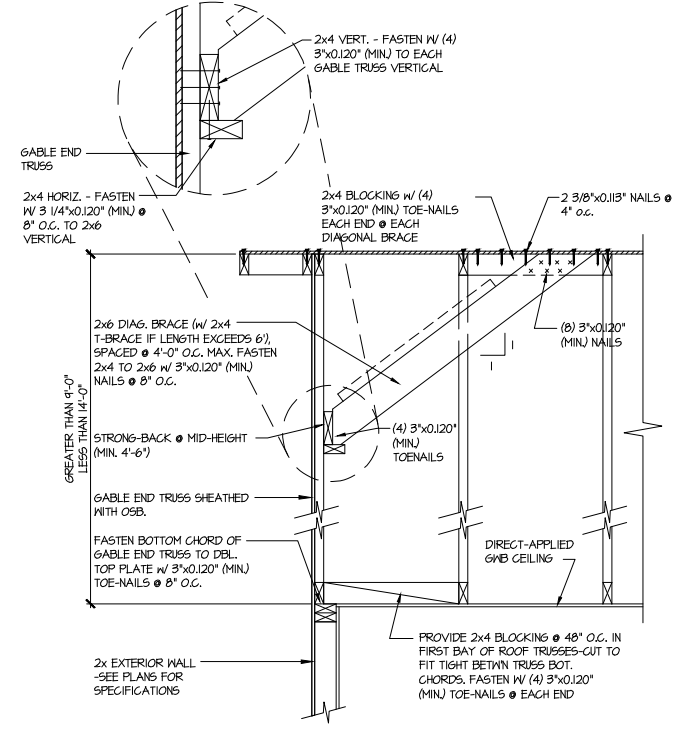
FRAMING DETAILS
CALDWELL MODEL
 120 MPH WIND ZONE
 NORTH CAROLINA

sheet:
SD2.1



A TYPICAL GABLE END BRACING DETAIL
 SCALE: NONE
 REQ'D @ GABLE END TRUSS HEIGHT UP TO 9'-0"

BRACE GABLE END TRUSSES PER ABOVE DETAIL WHEN GABLE HEIGHT IS LESS THAN 9'-0". 1" BRACES REQUIRED WHERE NOTED BY TRUSS MANUFACTURER.



B TYPICAL GABLE END BRACING DETAIL
 SCALE: NONE
 REQ'D @ GABLE END TRUSS HEIGHT BETWEEN 9'-0" TO 14'-0"

BRACE GABLE END TRUSSES PER ABOVE DETAIL WHEN GABLE HEIGHT EXCEEDS 9'-0". 1" BRACES NOT REQUIRED.

LETTERED DETAILS ARE TYPICAL FOR THIS HOME & SHALL BE IMPLEMENTED IN ALL APPLICABLE AREAS. THESE DETAILS ARE NOT "CUT" ON THE PLANS.

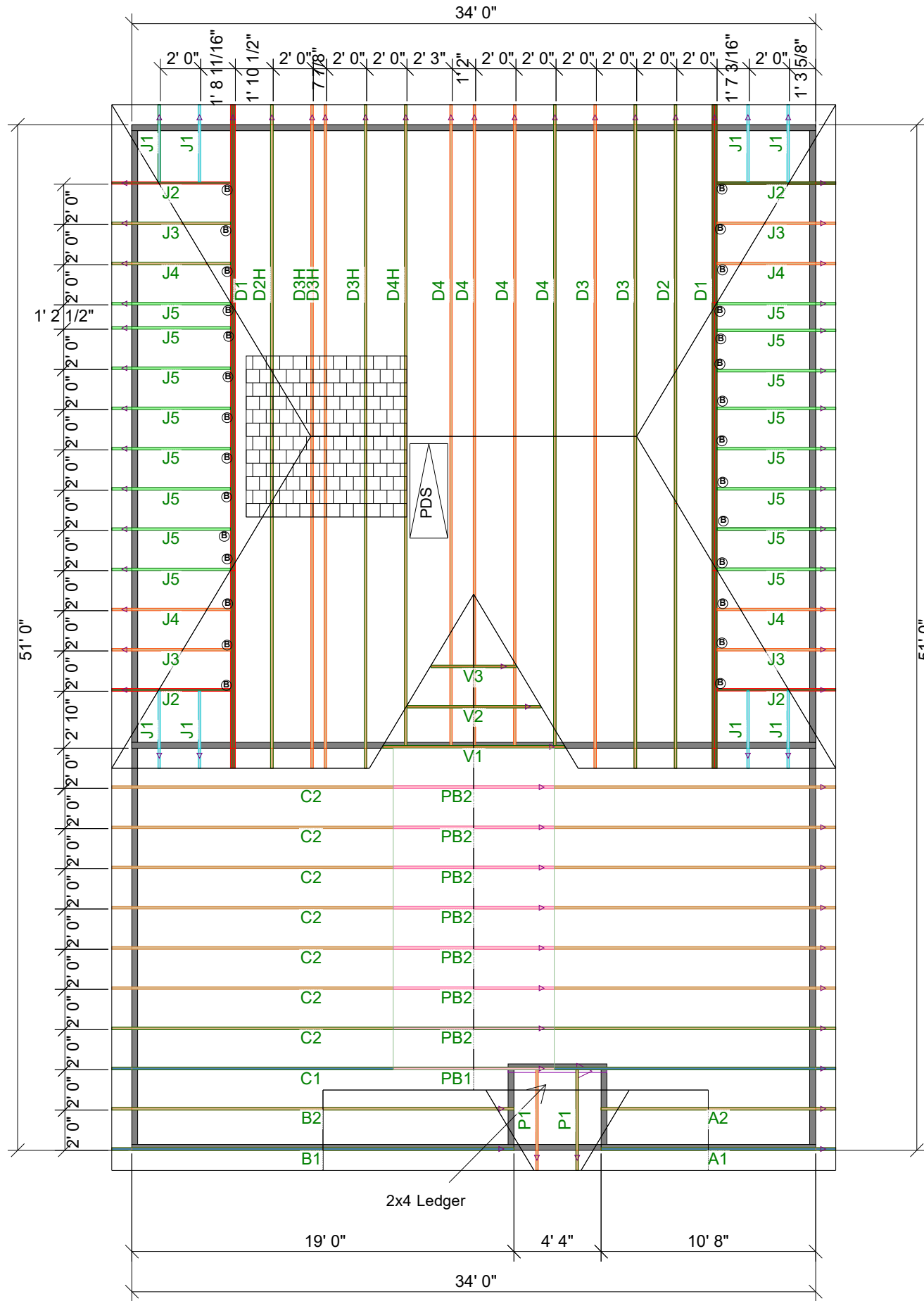
NUMBERED DETAILS ARE PLAN SPECIFIC AND ARE ONLY REQUIRED WHERE SPECIFICALLY INDICATED ("CUT") ON THE PLANS.

Duncans
 Lot 56

THIS IS A TRUSS/COMPONENT PLACEMENT DIAGRAM (TPD) ONLY: NOT AN ENGINEERED DOCUMENT. Trusses are designed as individual building components to be incorporated into the building design at the specification of the building designer. See individual truss design drawings (TDD's) for each truss design identified on the TPD. The building designer is responsible for temporary and permanent bracing of the roof and floor system and for the overall structure. The design of the support structure including but not limited to headers, beams, walls, and columns is also the responsibility of the building designer. For general guidance regarding installation and bracing, consult "Building Component Safety Information" (BCSI) available from the SBC Association (www.sbcassociation.com). It is the responsibility of the General Contractor to verify that the provided component layout matches the final intended construction plans, loading conditions, and use. If they do not, it is the responsibility of the General Contractor to notify UFP and provide plans containing the latest specifications and designs. UFP will not be responsible for plan changes by others after final approval of shop drawings, or for errors or modifications made on-site during construction. DO NOT CUT, NOTCH, DRILL, OR OTHERWISE "REPAIR" MANUFACTURED TRUSSES IN ANY WAY WITHOUT PRIOR WRITTEN AUTHORIZATION BY A LICENSED PROFESSIONAL DESIGNATED BY UFP. The Framing is responsible to verify all dimensions, including adjusting member spacing within tolerances to allow for the drop and rise of plumbing/HVAC, unless noted otherwise. Truss-to-wall connections, if shown, are for uplift only and do not consider lateral loads. All connectors on this project are to be installed per the connector manufacturer's specifications. All connectors shown that are not truss-to-truss are suggestions only and are to be verified by the Building Designer or Engineer of Record for suitability to this particular project. UFP accepts no responsibility for the specific application or suitability of any connector that is not truss-to-truss as they apply to this specific structure.

PLACEMENT PLAN

| | | | |
|----|-------------------|-------|---|
| 28 | FACE MOUNT HANGER | JUS26 | Ⓟ |
|----|-------------------|-------|---|



SCALE: N.T.S.

ROOF AREA: 2330.23 ft² _ RIDGE LINE: 48.85 ft _ VALLEY LINES: 32.11 _ HIP LINES: 83.74 _ △ Indicates Left End of Truss

| DATE | REVISIONS | DESCRIPTION | DSN |
|------|-----------|-------------|-----|
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

DESIGNER JNN
 LAYOUT DATE 11/18/21
 ARCH DATE
 STRUC DATE
 JOB #: MASTER

CALDWELL CFI

SD RALEIGH



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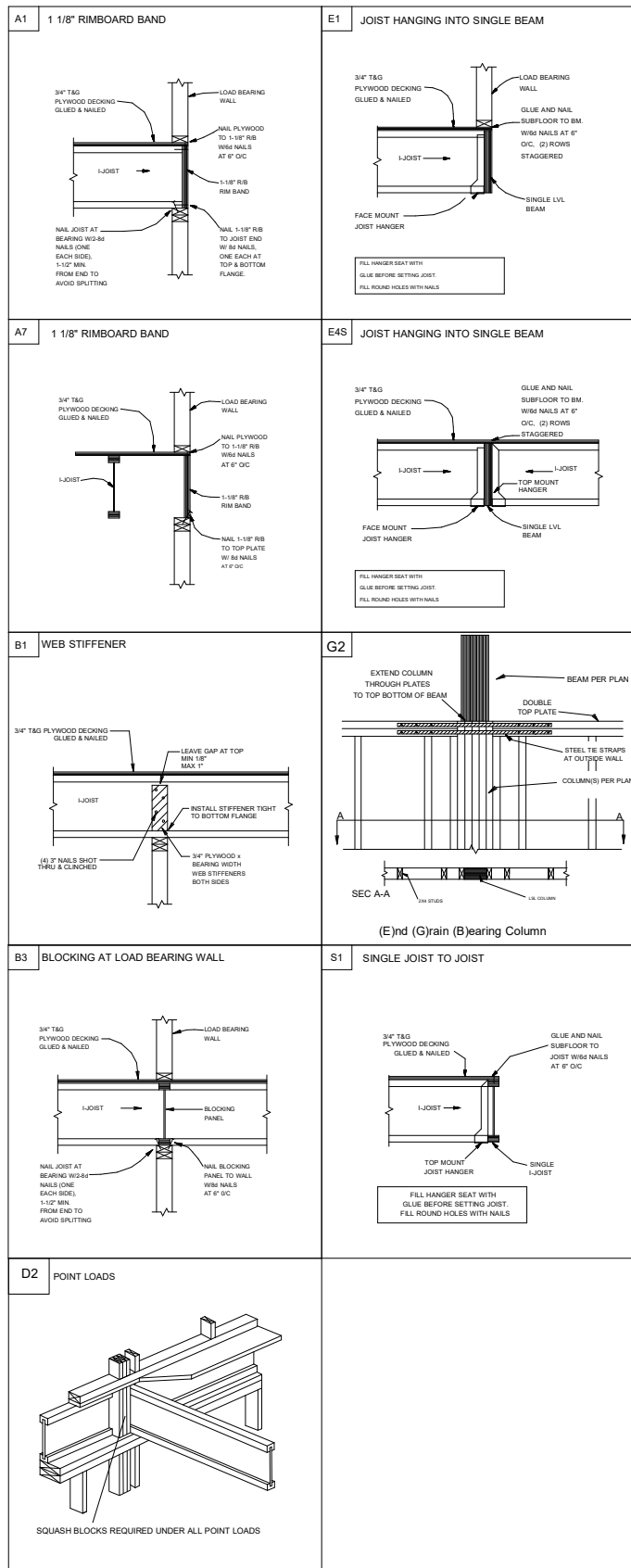
UFP SITE BUILT
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Burlington, NC
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 Stanfield, NC

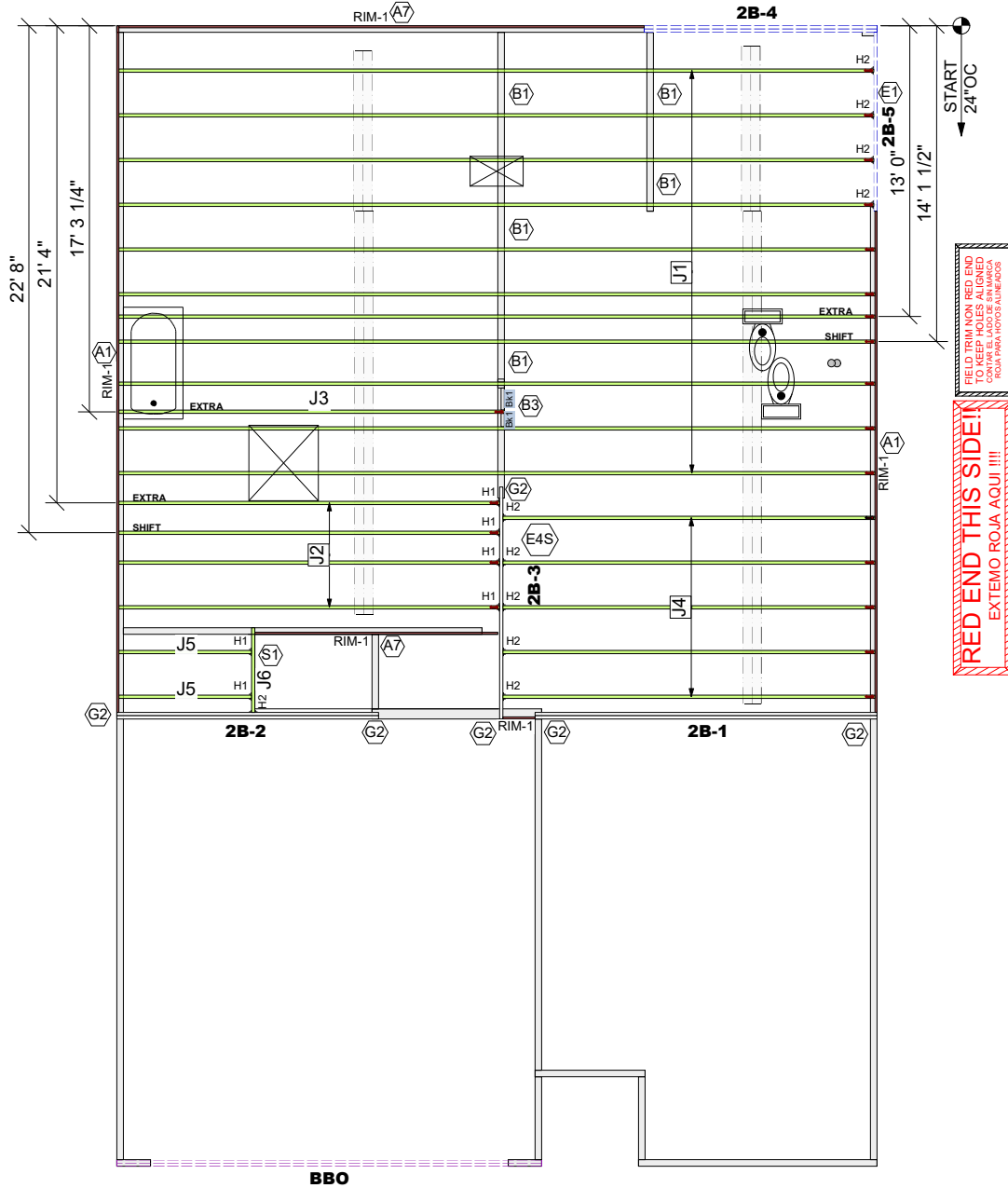


Customer Service (800) 476-9356

THIS IS AN ENGINEERED WOOD PRODUCT (EWP) MEMBER PLACEMENT DIAGRAM ONLY; NOT AN ENGINEERED DOCUMENT. EWP members are designed as individual building components to be incorporated into the building design at the specification of the building designer. The Contractor is responsible for the temporary bracing of the floor system, and the building designer is responsible for the permanent bracing and blocking of the floor system and the overall structure. The design of the support structure including but not limited to headers, beams, walls, and columns is also the responsibility of the building designer. It is the responsibility of the General Contractor to verify that the provided layout matches the final intended construction plans, loading conditions, and use. If they do not, it is the responsibility of the General Contractor to notify UFP and provide plans containing the latest specifications and designs. UFP will not be responsible for plan changes by others after final approval of shop drawings, or for errors or modifications made on-site during construction. DO NOT CUT, NOTCH, DRILL, OR OTHERWISE "REPAIR" EWP MEMBERS IN ANY WAY WITHOUT PRIOR WRITTEN AUTHORIZATION BY A LICENSED PROFESSIONAL DESIGNATED BY UFP. The Framers are responsible to verify all dimensions, including adjusting member spacing within tolerances to allow for the drop and rise of plumbing/HVAC, unless noted otherwise. All connectors on this project are to be installed per the connector manufacturer's specifications. All connectors shown that are not joist to joist are suggestions only and are to be verified by the Building Designer or Engineer of Record for suitability to this particular project. UFP accepts no responsibility for the specific application or suitability of any connector that is not joist to joist as they apply to this specific structure.



2ND FLOOR PLACEMENT PLAN



| Products | | | | | | |
|----------|--------|----------------------------------|-------|---------|----------|--|
| PlotID | Length | Product | Plies | Net Qty | Fab Type | |
| J1 | 34' 0" | 14" TJI@ 110 | 1 | 11 | MFD | |
| J2 | 18' 0" | 14" TJI@ 110 | 1 | 4 | MFD | |
| J3 | 18' 0" | 14" TJI@ 110 | 1 | 1 | MFD | |
| J4 | 17' 0" | 14" TJI@ 110 | 1 | 5 | MFD | |
| J5 | 6' 0" | 14" TJI@ 110 | 1 | 2 | MFD | |
| J6 | 4' 0" | 14" TJI@ 110 | 1 | 1 | MFD | |
| 2B-1 | 16' 0" | 1 3/4" x 14" 2.0E Microllam@ LVL | 2 | 2 | MFD | |
| 2B-2 | 12' 0" | 1 3/4" x 14" 2.0E Microllam@ LVL | 2 | 2 | MFD | |
| 2B-3 | 11' 0" | 1 3/4" x 14" 2.0E Microllam@ LVL | 1 | 1 | MFD | |
| 2B-4 | 11' 0" | 1 3/4" x 14" 2.0E Microllam@ LVL | 2 | 2 | MFD | |
| 2B-5 | 8' 0" | 1 3/4" x 14" 2.0E Microllam@ LVL | 1 | 1 | MFD | |
| RIM-1 | 16' 0" | 1 1/8" x 14" TJI@ Rim Board | 1 | 6 | FF | |
| Bk1 | 2' 0" | 14" TJI@ 110 | 1 | 2 | MFD | |

| Connector Summary | | |
|-------------------|-----|--------------------|
| PlotID | Qty | Manuf Product |
| H1 | 6 | Simpson ITS1.81/14 |
| H2 | 10 | Simpson IUS1.81/14 |

GENERAL NOTES:

- 1.) TOP CHORD OF JOISTS ARE PAINTED RED AT NUMBERED END. PLACE PAINTED END AS NOTED ON PLAN.
- 2.) FOLLOW SPECIAL SPACING AND LOCATION DIMENSIONS FOR EXTRAS OR SHIFTED JOISTS AS SHOWN ON PLAN.
- 3.) ALL INTERIOR WALL PLATES MUST BE LEVEL WITH OUTSIDE WALL TOP PLATES.
- 4.) DO NOT STACK CONSTRUCTION LOADS ON UN-BRACED JOISTS.
- 5.) PROVIDE SOLID SUPPORT BELOW ALL BEAM AND HEADER BEARING POINTS IN WALL AND JOIST SPACES CONTINUOUS DOWN TO THE FOUNDATION.
- 6.) LOCATE CRIPPLE STUDS IN JOIST SPACE DIRECTLY BELOW HEADER JACKS AT ALL FIRST FLOOR EXTERIOR DOOR LOCATIONS.
- 7.) INSTALL NAILS IN ALL HOLES PROVIDED IN JOIST HANGERS EXCEPT AT BOTTOM CHORD SEAT. PLACE A DAB OF GLUE IN THE HANGER SEAT BEFORE SETTING JOISTS.
- 8.) IMPORTANT NOTE! NO STRUCTURAL ANALYSIS OF CONVENTIONAL HEADERS HAS BEEN CONDUCTED IF NOT NOTED. THEY ARE CONSIDERED TO BE ADEQUATE TO SUPPORT THE APPLIED LOADS.

FRAMER NOTE

□ DENOTES DUCT HOLE RUNS

ALL DIMENSIONS TO CENTERLINE UNLESS OTHERWISE NOTED

- Avoid Plumbing Drops

FRAMER NOTE

1. GLUE AND NAIL PLYWOOD SUBFLOOR TO BEAMS AND GIRDERS AT 6" O/C WHERE NO WALL IS ABOVE.
2. FILL HANGER SEAT WITH GLUE BEFORE SETTING JOIST IN HANGER. FILL ROUND HOLES WITH NAILS.

CRITICAL !!

INSTALL 2X4 SQUASH BLOCKS IN FLOOR TRUSS SPACE BELOW ALL EXTERIOR DOOR HEADER JACKS. CUT 1/16" TALLER THAN TRUSS.

PLAN LEGEND

- 1B-, 2B-** *INDICATES BEAM ABOVE TOP PLATE (FLUSH WITH FLOOR SYSTEM)
- H-, 1H-, GDH-** INDICATES BEAM BELOW TOP PLATE (DROPPED BELOW FLOOR SYSTEM)
- *BEAMS MAY PROTRUDE ABOVE OR BELOW DECKING OR TOP PLATE RESPECTIVELY, REFER TO DETAIL IF BEAM IS A DIFFERENT DEPTH THAN FLOOR SYSTEM
- SINGLE PLY BEAM** (ADD LINE FOR EACH ADDITIONAL PLY)
- SHIFT** SHIFT JOIST TO MISS PLUMBING, ALIGN W/WALL OR SUPPORT FURNITURE
- EXTRA** A JOIST ADDED TO THE LAYOUT IN ADDITION TO THE ON CENTER JOISTS
- DOUBLE** TWO JOISTS SIDE BY SIDE (ONLY ASSEMBLED IF NOTED)

FIELD TRIM NON RED END TO KEEP HOLES ALIGNED
 CONTAR EL LADO DE SIN MARCA ROJA PARA HOYOS ALINEADOS

FIELD LOCATE PLUMBING DROPS/CAN LIGHTS, ETC... PRIOR TO JOIST SECUREMENT TO AVOID INTERFERENCE.

LAYOUT FOR 19.2" O/C

| | |
|--------------|----------------|
| 1= 19-3/16" | 9= 172-13/16" |
| 2= 38-3/8" | 10= 192" |
| 3= 57-5/8" | 11= 211-3/16" |
| 4= 76-13/16" | 12= 230-3/8" |
| 5= 96" | 13= 249-13/16" |
| 6= 115-3/16" | 14= 268-13/16" |
| 7= 134-3/8" | 15= 288" |
| 8= 153-5/8" | |

FIELD VERIFY DIMENSIONS TO JOISTS LOCATED UNDER WALLS!!
2ND FLOOR LAYOUT

SCALE: 1/8"=1'



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Smith Douglas Homes

Caldwell 2nd Floor

| REVISIONS | DATE | DESCRIPTION | DSN |
|-----------|------|-------------|-----|
| | | | |
| | | | |
| | | | |
| | | | |