Wind Load Analysis and Certification

Cook Residence by Red Door Homes

2020 Florida Building Code section 1609 according to ASCE 7-16
Ultimate Design Wind Speed (Vult) = 130 MPH (3 second gust)
Nominal Design Wind Speed (Vasd)) = 101 MPH
Risk Category = II
Exposure Category = B, Enclosed Building
Applicable Internal Pressure Coefficient = .18
Design Wind Pressure for use of External Components (Components and Cladding)= +32.1psf, -43.3psf
Overhead Garage Door: +15.2psf, -16.9psf

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

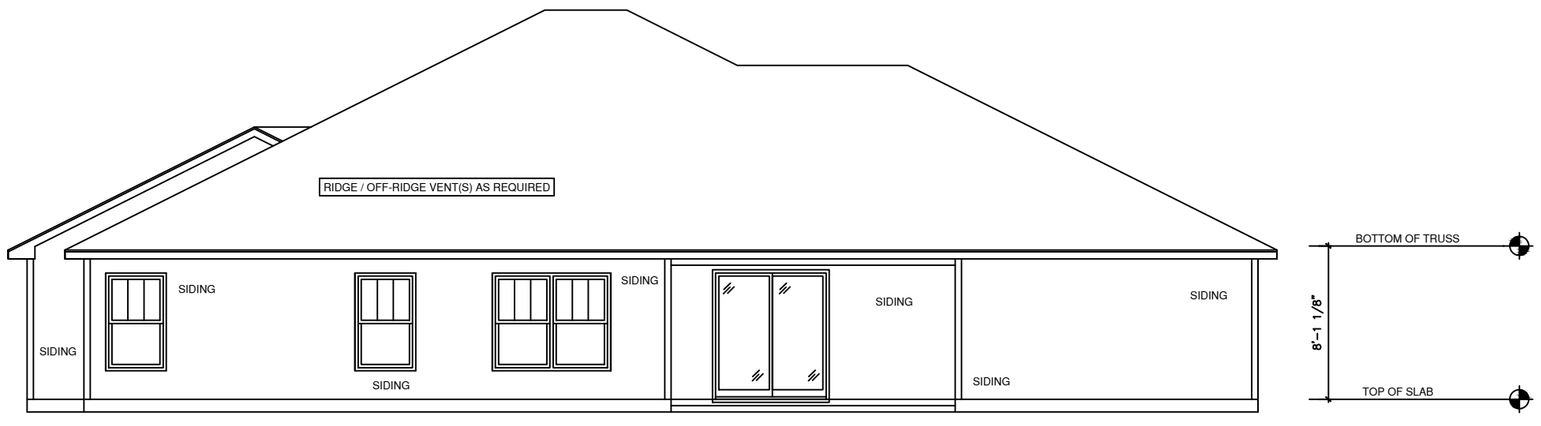
Columbia County Building Department
Plans Reviewed for Code Compliance
State of Florida

FRANK J SAPIENZA JR LICENSE No. 48566 STATE OF FLORIDA PROFESSIONAL ENGINEER

Frank J Sapienza Jr

Digitally signed by Frank J Sapienza Jr
Date: 2022.12.08 11:10:13 -05'00'

This item has been digitally signed and sealed by FRANK J SAPIENZA JR PE using Digitial Signature.
Printed copies of this document are not considered signed and sealed and the signature must be verified on any copies.
Signature/Seal on any sheet is valid only for the structural design, or to indicate conformance with the structural design.



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

FINAL
12-194 COOK

GENERAL NOTES

1.) MAIN FLOOR PLATE HEIGHT TO BE 8'-0" UNLESS NOTED OTHERWISE.
2.) OPTIONAL BONUS PLATE HEIGHT TO BE 8'-0" UNLESS NOTED OTHERWISE.
3.) INTERIOR & EXTERIOR WALLS TO BE DRAWN @ 3 1/2" UNLESS NOTED OTHERWISE.
4.) ALL ANGLES TO BE DRAWN AT 45° OR 90° UNLESS NOTED OTHERWISE.
5.) WINDOW HEADER HEIGHT TO BE SET @ 6'-11" UNLESS NOTED OTHERWISE. HEADER SIZE AND MATERIAL TO BE DETERMINED & VERIFIED BY FRAMER, BUILDER, TRUSS SHOP OR BY A LICENSED ENGINEER.
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12.) BUILDER TO VERIFY ALL DIMENSIONS.

RED DOOR homes

SQUARE FOOTAGE CHART

MAIN FLOOR AREA TO FRAME	2364
COVERED FRONT ENTRY	113
COVERED REAR PATIO	90
UNCOVERED REAR PATIO	90
GARAGE AREA TO FRAME	566
TOTAL UNDER BEAM AREA	3133
MAIN FLOOR AREA TO MASONRY	2373
GARAGE AREA TO MASONRY	576

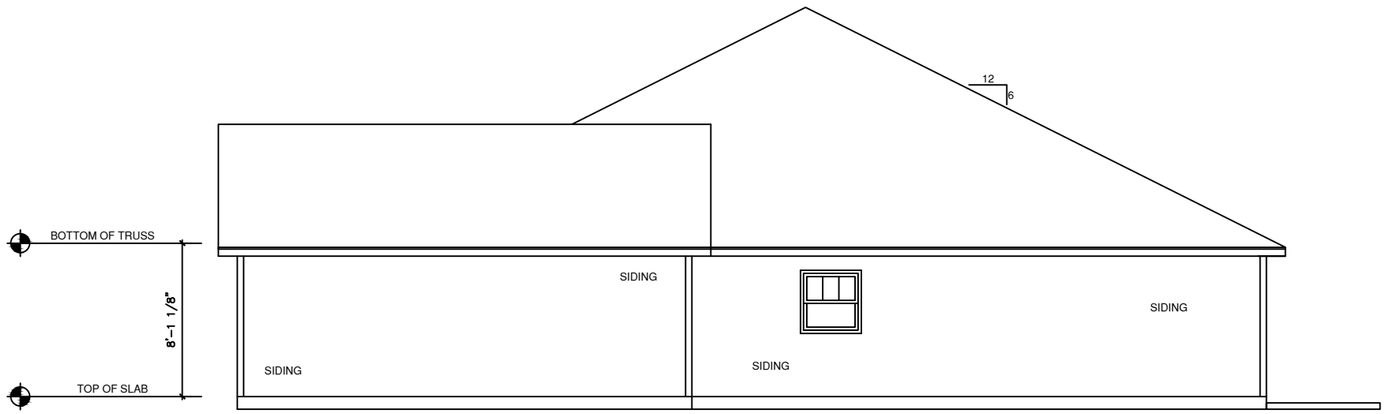
SUBDIVISION NAME: XXXXXXXXXX
CITY: XXXXXXXXXX
PHASE: XXXXXXXXXX
BLOCK: XXXXXXXXXX
LOT: XXXXXXXXXX

DRAFTING DATES:

MASTER DATE: 10.4.22
PRELIMINARY: 10/25/2022 JPH
PERM: N/A
FINAL: 11.16.22 GC

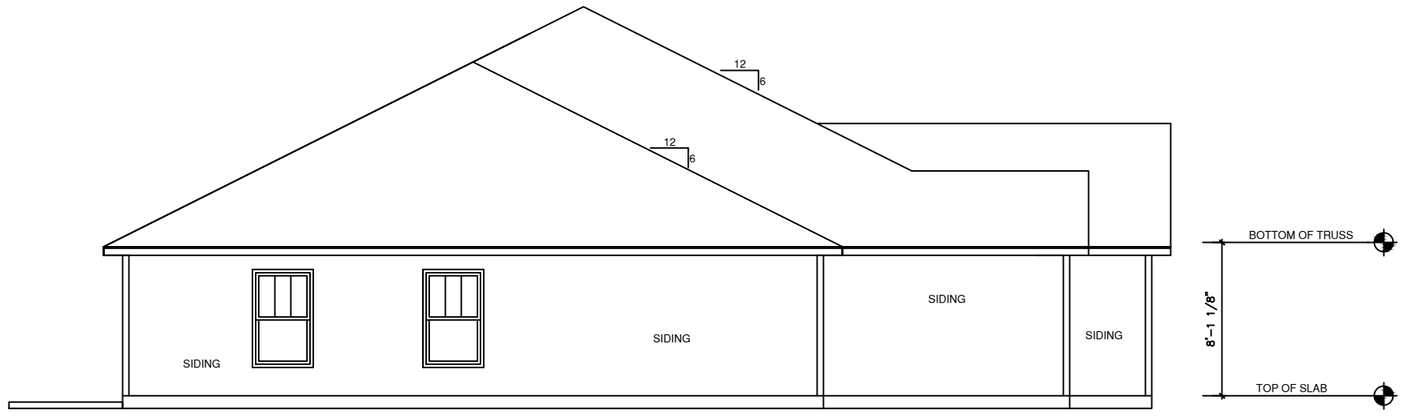
Front & Rear Elevation

INGLEWOOD
"CRAFTSMAN"



RIGHT ELEVATION

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



LEFT ELEVATION

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12-194 COOK

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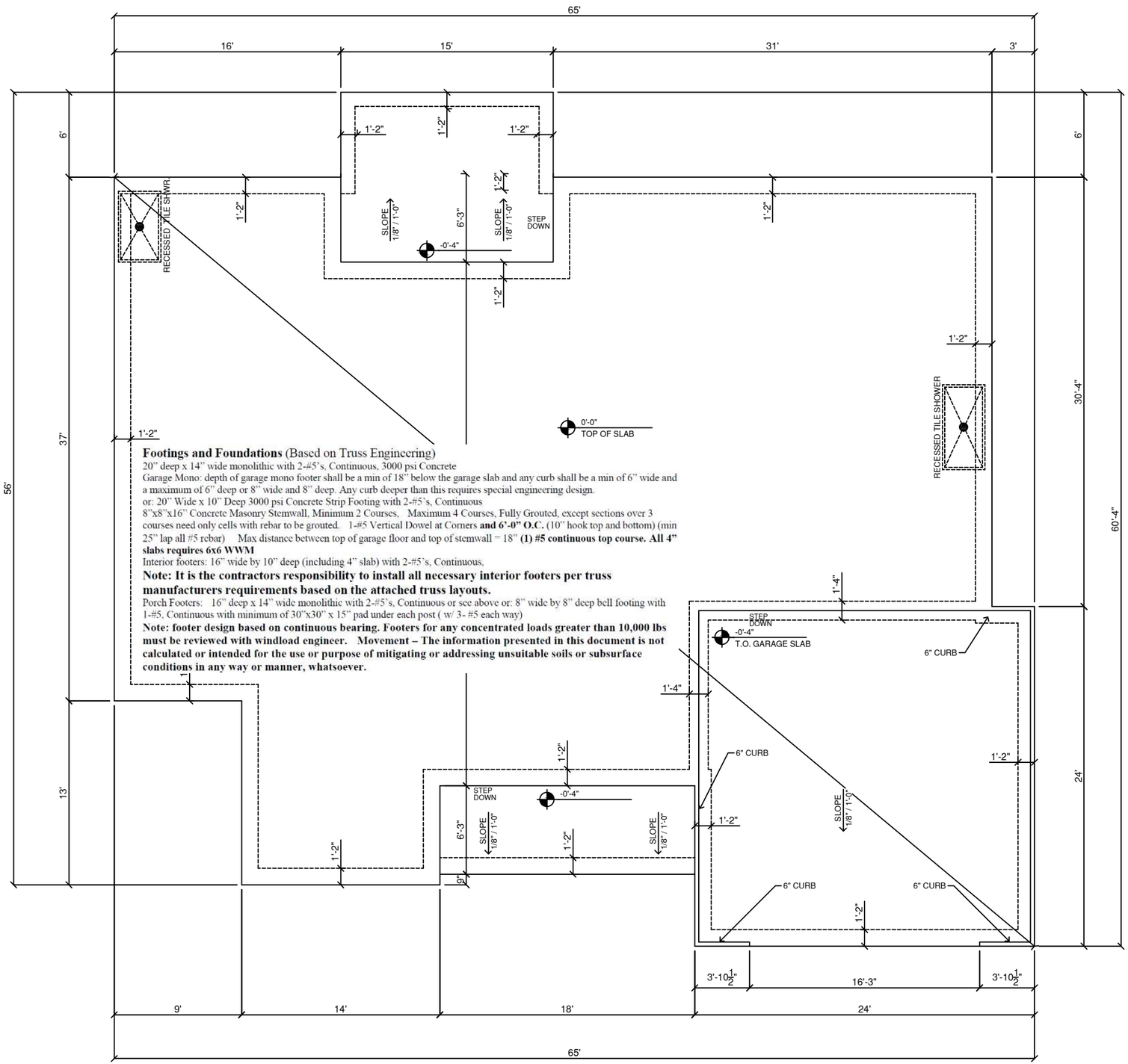
Right & Left Elevation

INGLEWOOD
"CRAFTSMAN"



Footings and Foundations (Based on Truss Engineering)

20" deep x 14" wide monolithic with 2-#5's, Continuous, 3000 psi Concrete

Garage Mono: depth of garage mono footer shall be a min of 18" below the garage slab and any curb shall be a min of 6" wide and a maximum of 6" deep or 8" wide and 8" deep. Any curb deeper than this requires special engineering design.

or: 20" Wide x 10" Deep 3000 psi Concrete Strip Footing with 2-#5's, Continuous

8"x8"x16" Concrete Masonry Stemwall, Minimum 2 Courses, Maximum 4 Courses, Fully Grouted, except sections over 3 courses need only cells with rebar to be grouted. 1-#5 Vertical Dowel at Corners **and 6'-0" O.C.** (10" hook top and bottom) (min 25" lap all #5 rebar) Max distance between top of garage floor and top of stemwall = 18" **(1) #5 continuous top course. All 4" slabs requires 6x6 WWM**

Interior footers: 16" wide by 10" deep (including 4" slab) with 2-#5's, Continuous,

Note: It is the contractors responsibility to install all necessary interior footers per truss manufacturers requirements based on the attached truss layouts.

Porch Footers: 16" deep x 14" wide monolithic with 2-#5's, Continuous or see above or: 8" wide by 8" deep bell footing with 1-#5, Continuous with minimum of 30"x30" x 15" pad under each post (w/ 3- #5 each way)

Note: footer design based on continuous bearing. Footers for any concentrated loads greater than 10,000 lbs must be reviewed with windload engineer. Movement – The information presented in this document is not calculated or intended for the use or purpose of mitigating or addressing unsuitable soils or subsurface conditions in any way or manner, whatsoever.

MONOLITHIC FOUNDATION PLAN

SCALE 1/8" = 1'-0"

FINAL

12-194 COOK

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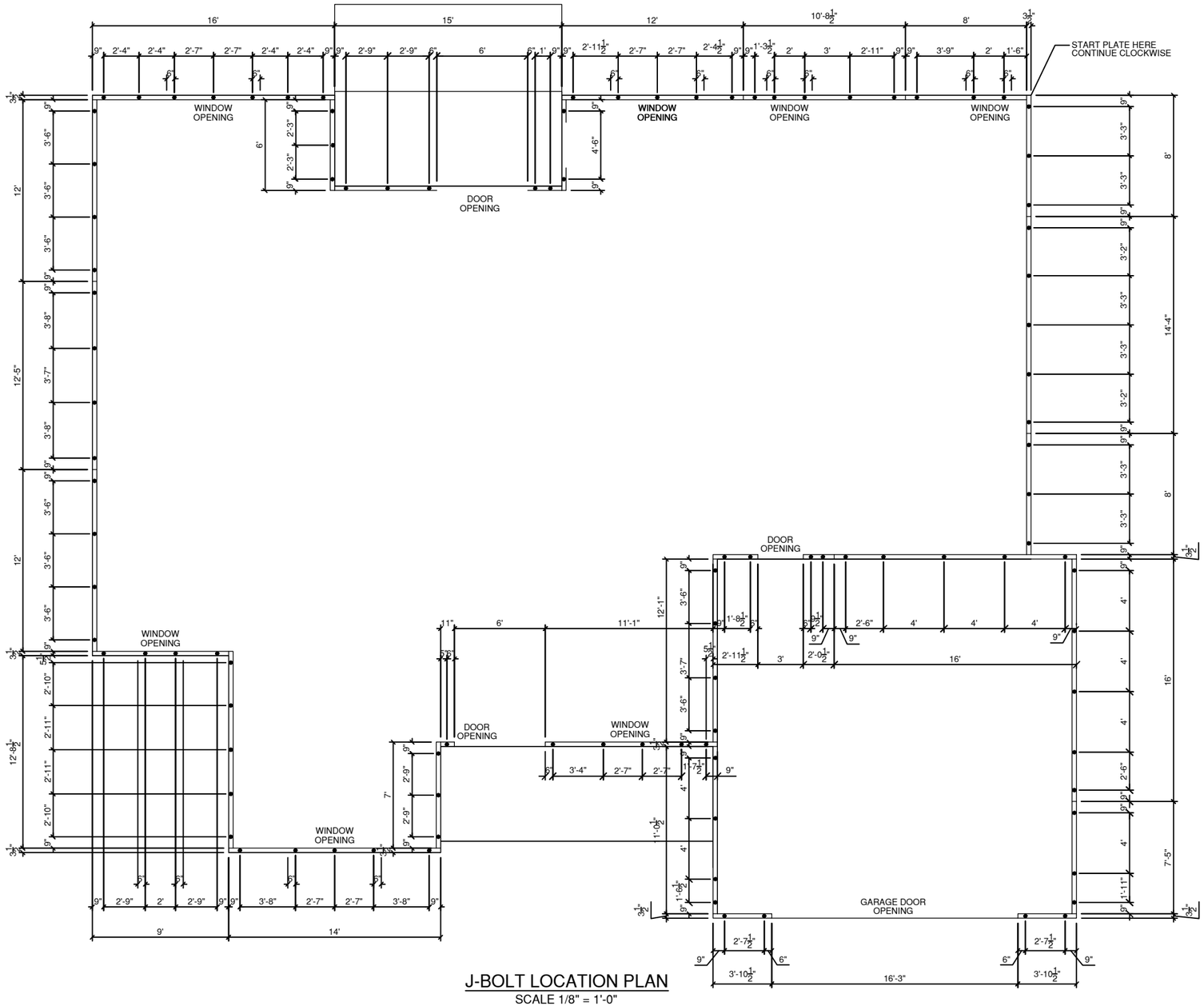
Monolithic Slab

INGLEWOOD

"CRAFTSMAN"



J-BOLT LOCATION PLAN
SCALE 1/8" = 1'-0"

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12-194 COOK

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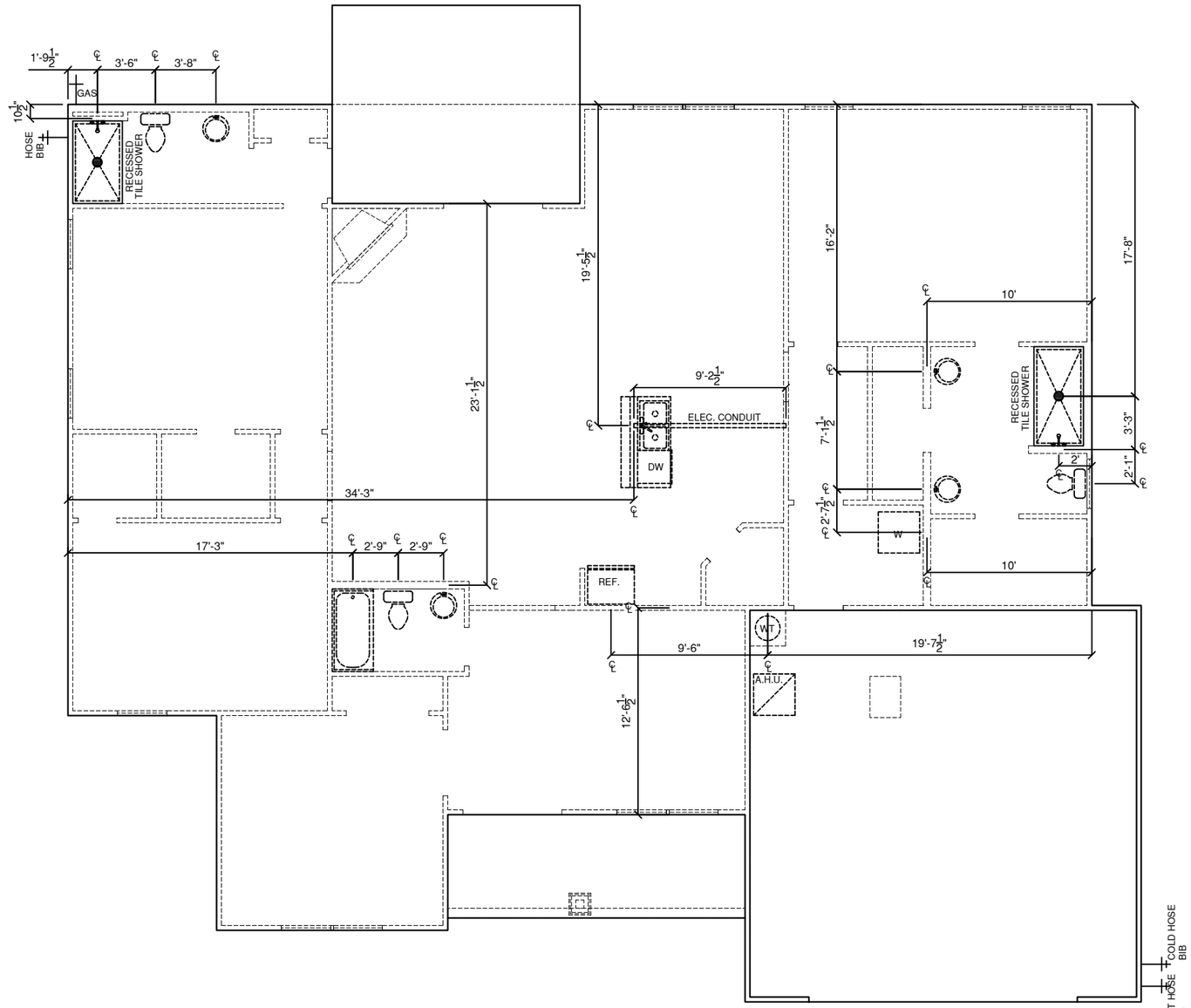
J-Bolt Location Plan

INGLEWOOD
"CLASSIC"

NOTE: DIMENSIONS TO THE CENTER OF PLUMBING FIXTURES AND WALLS



PLUMBING PLAN
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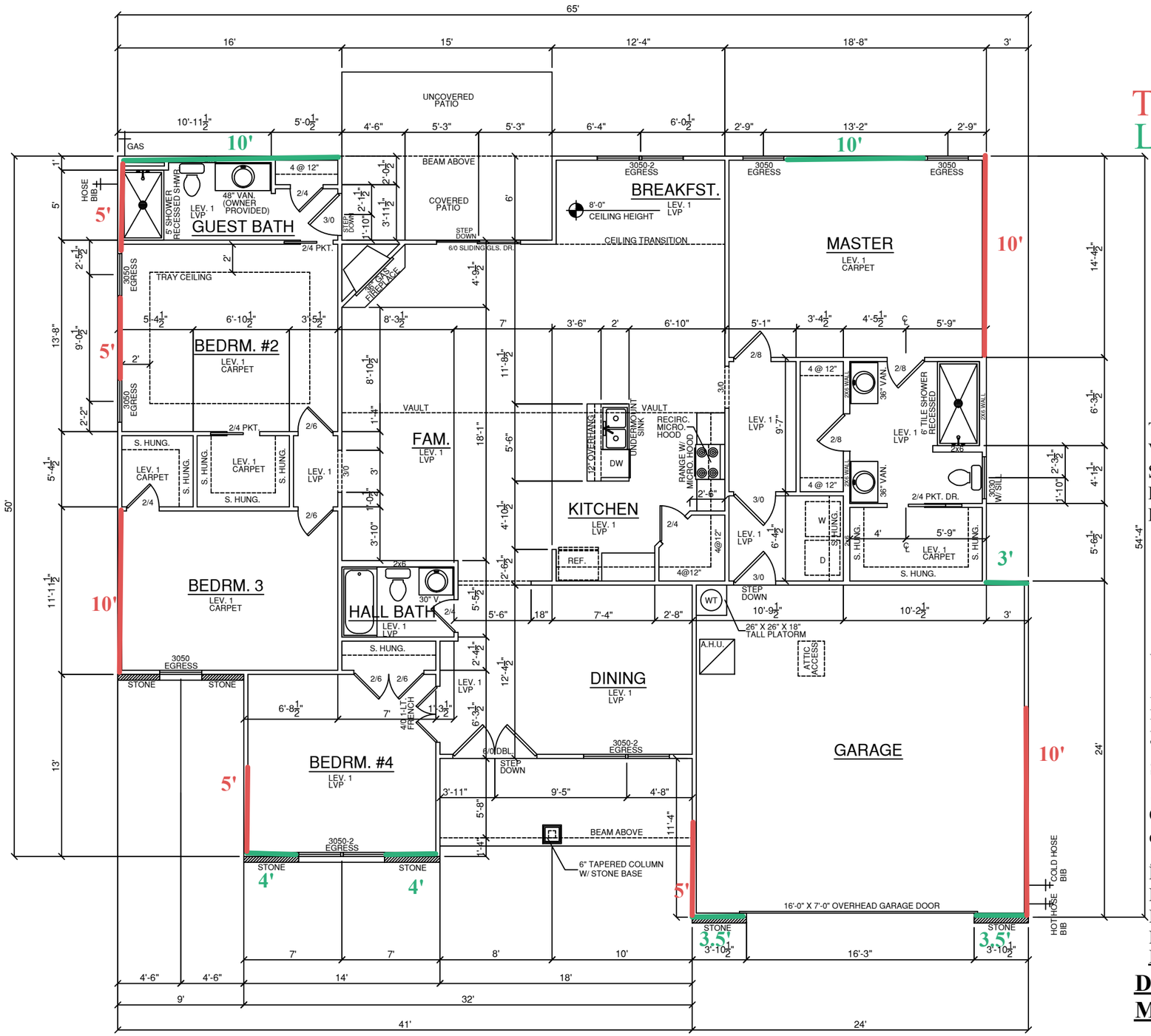
Foundation Plumbing

INGLEWOOD
"CRAFTSMAN"



FLOOR PLAN

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

MICROWAVE TO BE PROVIDED BY HOMEOWNER

GRANITE TOPS AT BATHROOMS

OWNER TO PROVIDE VANITY AT BEDROOM #2

OWNER TO PROVIDE APPLIANCES AFTER CLOSING

OWNER TO PROVIDE TOP AT GUEST BATHROOM

Trans. S. W. = 50'

Long. S.W. = 38'

Kitchen

Level 2 Cabs. 30" Uppers
Hardware: Z118-96 SN
Top: Santa Cecilia Light Granite
Appliances: Stainless
Range: Glass Top
Microwave Hood: WMH53521HZ
Home Owner to provide microwave
Faucet: Stainless
Sink: 50/50 Undermount

Master Bath

Tops: Salt and Pepper Granite
Vanity: Different Color than Kitchen
Sink: Round Drop-in White
Faucet: 4" Chrome
Hardware: None

Hall Bath

Vanity: Classic Maple Smoke
Top: Santa Cecile Light
Hardware: Z118-96SN
Faucet: 8" Chrome

Bed 2 Bath

Vanity: Owner to provide
RDH to install
Hardware: None
Faucet: 8" Chrome
Top: Owner to provide with vanity
Sink: Owner to provide with vanity

Fireplace

Owner to provide appliance after closing.

Doors and Hardware

Front Door: Double 1/3 Lite
Back Door: Sliding Glass
Ext. Bed 2 Bath Door: 6 Panel
Hardware: Dorian Lever (Ant. Nickel)

Drywall Finish: Hard Plaster

DO NOT INSTALL SHOE MOLDING

FINAL
12-194 COOK

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Floor Plan

INGLEWOOD
"CRAFTSMAN"

ELECTRICAL SYMBOLS

◀	RECEPTACLE, PHONE
◀	RECEPTACLE, CABLE
	DOOR BELL CHIMES
SD	SMOKE/CARBON DETECTOR (S.D.)
	DUPLEX OUTLET
220V	220 VOLT RECEOTICAL
GFI	GROUND FAULT INTER. OUTLET
WP	WATER PROOF OUTLET
$	SINGLE POLE SWITCH
$3	THREE WAY SWITCH
	LIGHT, SURFACE MOUNTED
	LIGHT, WALL MOUNTED
	LIGHT, FLUORESCENT BOX
	LIGHT, TRACK LIGHTING
	FAN, EXHAUST
	FAN, CEILING FAN W/LIGHT

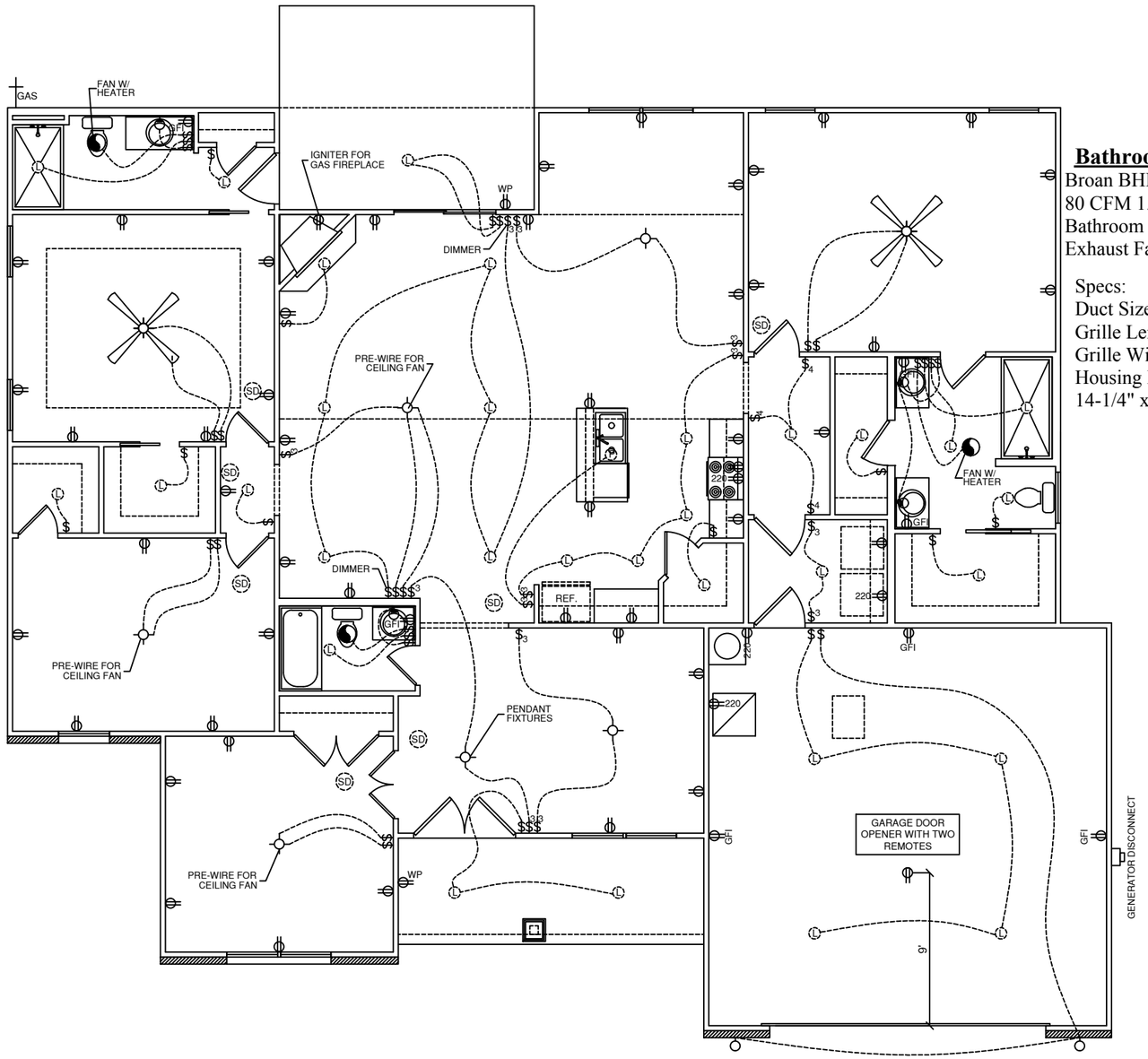
ELECTRICAL NOTES

1. ALL ELECTRICAL TO MEET N.E.C.
2. PROVIDE 200 AMP SINGLE PHASE SERVICE.
3. PROVIDE ALL COPPER WIRING.
4. CONTRACTOR TO CONNECT ALL FIXTURES AND APPLIANCES.
5. CONTRACTOR TO HAVE VALID LICENSE TO DO ELECTRICAL WORK
6. PROVIDE #5 REBAR ELECTRICAL GROUND TO FOUNDATION STEEL
7. PROVIDE AND INSTALL LOCALLY CERTIFIED SMOKE DETECTORS AS REQ. BY NATIONAL FIRE PROTECTION ASSOC. (NFPA) AND MEETING THE REQUIRMENTS OF ALL GOVERNING CODES.
8. PROVIDE AND INSTALL GROUND FAULT CIRCUIT-INTERUPTERS (GFI) AS REQ. BY NATIONAL ELECTRIC CODE (NEC) AND MEETING THE REQUIRMENTS OF ALL GOVERNING CODES.
9. UNLESS OTHERWISE INDICATED, INSTALL SWITCHES & RECEPTICALS AT THE FOLLOWING HEIGHTS A. F. F.:

SWITCHES	42"
OUTLETS	14"
TELEPHONE	14"
TELEVISION	14"

ALL VANITY FIXTURES: GLOBES DOWN

SEE OWNER FOR BATHROOM VENT SPECIFICATIONS



ELECTRICAL PLAN

SCALE 1/8" = 1'-0"

Bathrooms Fan/Heater

Broan BHFLED80 PowerHeat
80 CFM 1.5 Sones Ceiling
Bathroom
Exhaust Fan with Heater

Specs:
Duct Size 4
Grille Length 16.25
Grille Width 9.75
Housing Dimensions
14-1/4" x 8-1/4" x 5-3/4"

FINAL
12-194 COOK

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Electrical Plan

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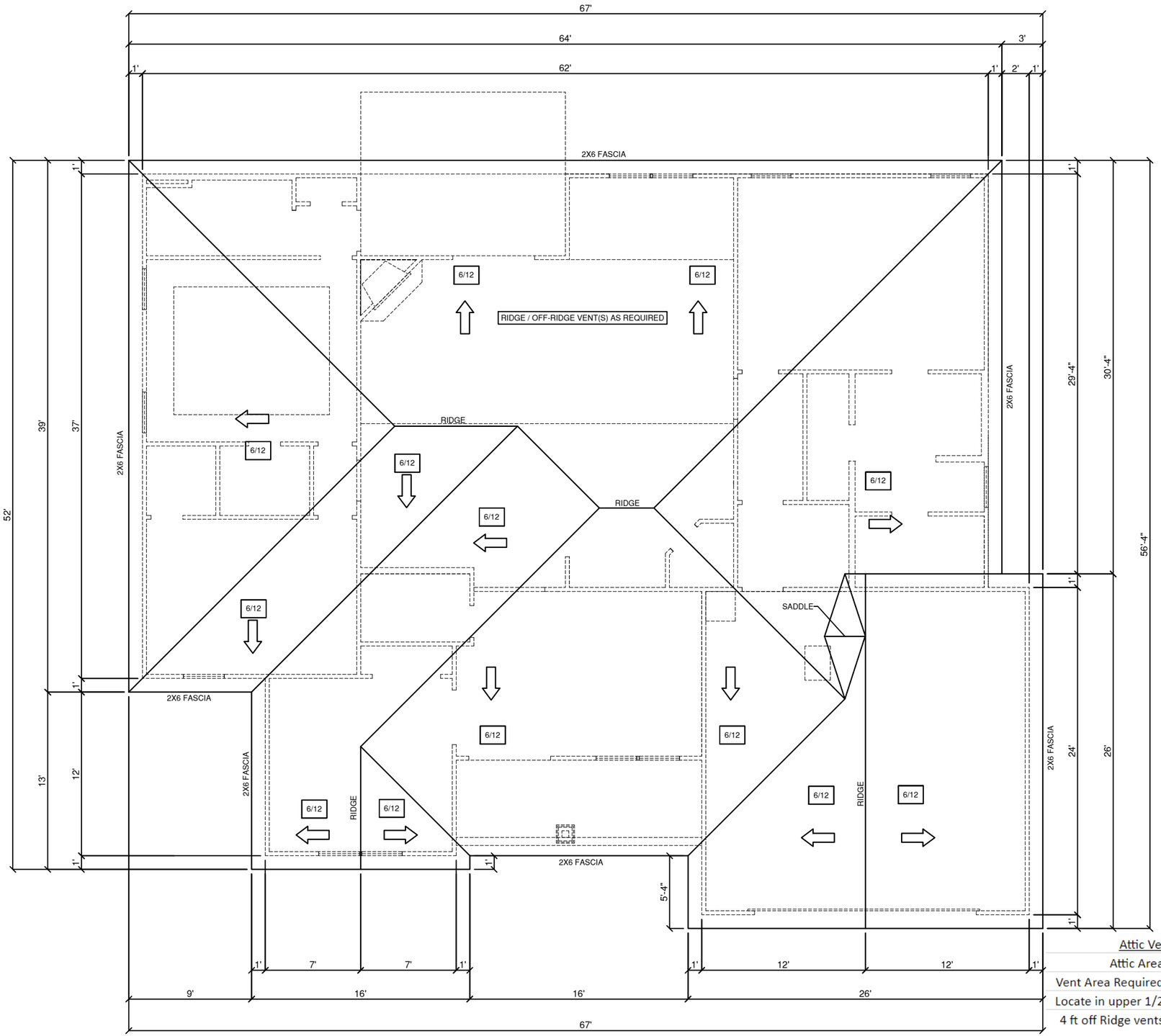


ROOF PLAN
SCALE 1/8" = 1'-0"

Attic Vent Calculation

Attic Area	3133	÷ 300	=	10.4433
Vent Area Required	10.443	÷ 2	=	5.22167
Locate in upper 1/2	5.2217	÷ 0.72	=	7.25231
4 ft off Ridge vents	7			

FINAL
12-194 COOK

GENERAL NOTES

1.) MAIN FLOOR PLATE HEIGHT TO BE 8'-0" UNLESS NOTED OTHERWISE.
2.) OPTIONAL BONUS PLATE HEIGHT TO BE 8'-0" UNLESS NOTED OTHERWISE.
3.) INTERIOR & EXTERIOR WALLS TO BE DRAWN @ 3 1/2" UNLESS NOTED OTHERWISE.
4.) ALL ANGLES TO BE DRAWN AT 45° OR 90° UNLESS NOTED OTHERWISE.
5.) WINDOW HEADER HEIGHT TO BE SET @ 6'-11" UNLESS NOTED OTHERWISE. HEADER SIZE AND MATERIAL TO BE DETERMINED & VERIFIED BY FRAMER, BUILDER, TRUSS SHOP OR BY A LICENSED ENGINEER.
6.) SIZE, LOCATION AND MATERIALS OF BEAMS TRUSSES, GIRDERS AND HEADERS TO BE DETERMINED & VERIFIED BY BUILDER, FRAMER TRUSS SHOP OR LICENSED ENGINEER.
7.) FOOTER SIZE, MATERIAL & LOCATIONS TO BE VERIFIED AND DETERMINED BY BUILDER, FOOTER CONTRACTOR OR LICENSED ENGINEER.
8.) ROOF VENTELLATION TO BE DETERMINED & VERIFIED BUILDER,ROOFING COTRACTOR OR LICENSED ENGINEER.
9.) ALL MECHANICAL SYSTEMS DESIGNS, LOCATIONS AND SIZING TO BE DETERMINED & VERIFIED BY BUILDER, APPROPRIATE TRADE CONTRACTOR AND OR LICENSED ENGINEER.
10.) BUILDER RESPONSIBLE FOR VERIFYING AND COMPLYING WITH ALL LOCAL, STATE & NATIONAL CODES.
11.) LOCAL, STATE AND NATIONAL CODES TAKE PRECIDENCE OVER DRAWINGS.
12.) BUILDER TO VERIFY ALL DIMENSIONS.

RED DOOR homes

SQUARE FOOTAGE CHART

MAIN FLOOR AREA TO FRAME	2364
COVERED FRONT ENTRY	113
COVERED REAR PATIO	90
UNCOVERED REAR PATIO	90
GARAGE AREA TO FRAME	566
TOTAL UNDER BEAM AREA	3133
MAIN FLOOR AREA TO MASONRY	2373
GARAGE AREA TO MASONRY	576

SUBDIVISION NAME: XXXXXXXXXX
CITY: XXXXXXXXXX
PHASE: XXXXXXXXXX
BLOCK: XXXXXXXXXX
LOT: XXXXXXXXXX

DRAFTING DATES:

MASTER DATE: 10.4.22
PRELIMINARY: 10/25/2022 JPH
PERM: N/A
FINAL: 11.16.22 GC

Roof Plan

INGLEWOOD
"CRAFTSMAN"

CABINET LEGEND

B: BASE CABINET
WC: WALL CABINET
CBC: CORNER BASE CABINET
CWC: CORNER WALL CABINET
SB: SINK BASE CABINET
FSB: FARMHOUSE SINK BASE

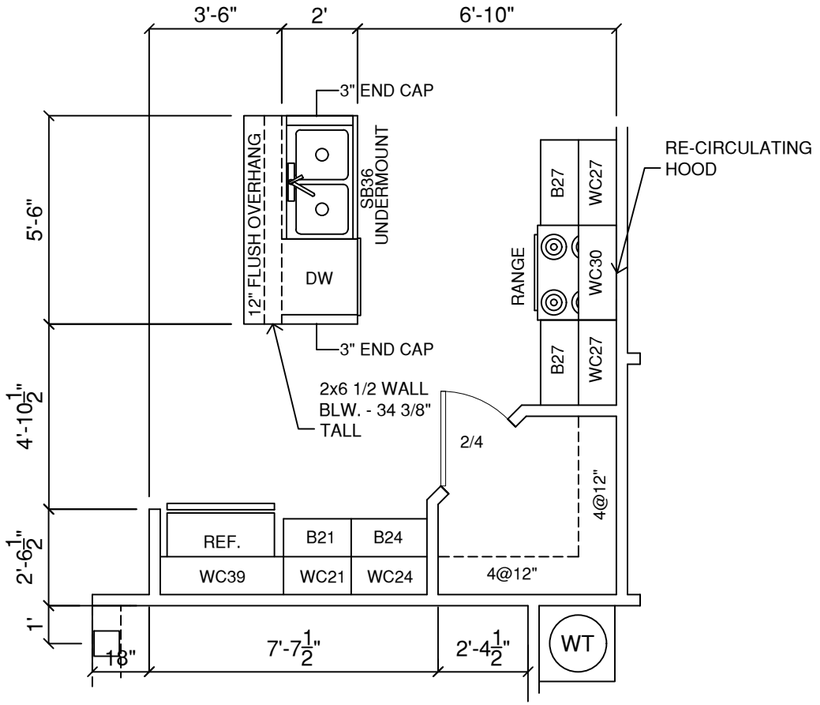
MICROWAVE TO BE PROVIDED BY HOMEOWNER

GRANITE TOPS AT BATHROOMS

OWNER TO PROVIDE VANITY AT BEDROOM #2

OWNER TO PROVIDE APPLIANCES AFTER CLOSING

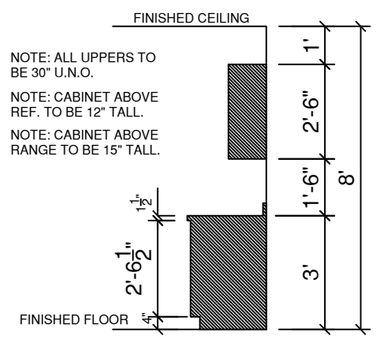
OWNER TO PROVIDE TOP AT GUEST BATHROOM



STANDARD THYME KITCHEN

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

NOTE: STANDARD THYME KITCHEN W/ 24" & 21" BASE/ WALL BY REF. & 27" ILO 30" ON EACH SIDE OF RANGE



STANDARD 30" WALL CABS.

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

☑ LEVEL 2 CABINETS

☐ OPTIONAL CROWN MLD'G.

FINAL
12-194 COOK

GENERAL NOTES

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RED DOOR homes

SQUARE FOOTAGE CHART

MAIN FLOOR AREA TO FRAME	2364
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SUBDIVISION NAME: XXXXXXXXXX
CITY: XXXXXXXXXX
PHASE: XXXXXXXXXX
BLOCK: XXXXXXXXXX
LOT: XXXXXXXXXX

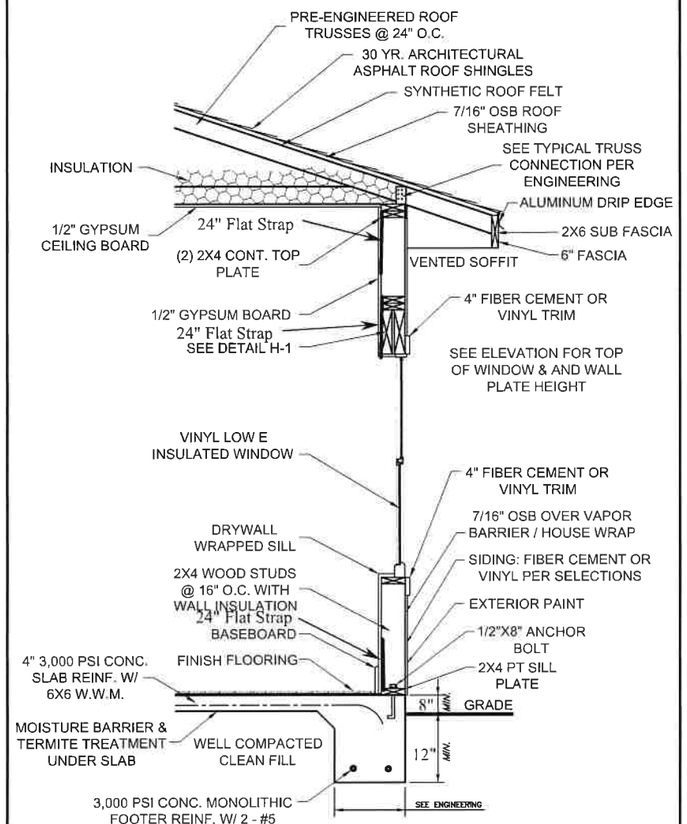
DRAFTING DATES:

MASTER DATE: 10.4.22
PRELIMINARY: 10/25/2022 JPH
PERM: N/A
FINAL: 11.16.22 GC

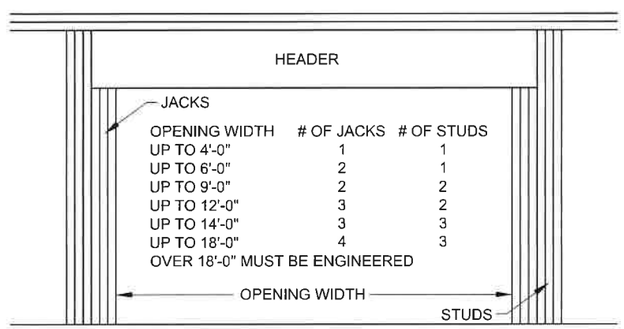
Cabinet Plan

INGLEWOOD
"CRAFTSMAN"

TWS-1 TYPICAL WALL SECTION



NUMBER OF JACK AND STUD REQUIREMENTS PER OPENING WIDTH
2X4 OR 2X6 SPF #1&2 CONSTRUCTION - MAX WALL HEIGHT = 12'-0"
BASED ON 16" O.C. STUD SPACING



OPENING WIDTH	# OF JACKS	# OF STUDS
UP TO 4'-0"	1	1
UP TO 6'-0"	2	1
UP TO 9'-0"	2	2
UP TO 12'-0"	3	2
UP TO 14'-0"	3	3
UP TO 18'-0"	4	3

OVER 18'-0" MUST BE ENGINEERED

NOT TO SCALE

HOLD-DOWN TABLE

WOOD SECTIONS HEADERS	UPLIFT FORCE LBS	TOP CONNECTOR SIMPSON**	RATING LBS	BOTTOM CONNECTOR SIMPSON**	RATING LBS
	UP TO 455 LBS	LSTA9	775	H3	455
	UP TO 910 LBS	LSTA12	970	2-H3	910
	UP TO 1235 LBS	LSTA18	1235	LTT19	1350
	UP TO 1750 LBS	2-LSTA12	1940	LTT20	1750
	UP TO 2470 LBS	2-LSTA18	2470	HD2A-2.5	2565
	UP TO 2775 LBS	3-LSTA18	3705	HD2A-3.5	2775
	UP TO 3705 LBS	3-LSTA18	3705	HD5A-3	3705

TO DETERMINE UPLIFT FORCE ON HEADER AT EACH END, TOTAL THE UPLIFTS FOR EACH TRUSS RESTING ON THE HEADER AND DIVIDE BY 2 (ASSUMES UNIFORM LOAD) NOTE: MUST USE PROPER BOLT ANCHORS SUFFICIENT TO SUPPORT REQUIRED LOAD.

TRUSSES/GIRDERS - UPLIFT

UP TO 600 LBS - USE H2.5A TOP. NO SPECIAL DEVISE REQUIRED AT BOTTOM
600 LBS TO 990 LBS USE H10 TOP. NO SPECIAL DEVISE REQUIRED AT BOTTOM
UP TO 1215 LBS USE TS22 OR EQUIVALENT AT TOP AND LTT19 AT BOTTOM
UP TO 1750 LBS USE 2-TS22 OR EQUIVALENT AT TOP AND LTT20 AT BOTTOM
UP TO 2430 LBS USE 2-TS22 OR EQUIVALENT AT TOP AND HD2A AT BOTTOM
UP TO 3645 LBS USE 3-TS22 OR EQUIVALENT AT TOP AND HD5A AT BOTTOM

NOTE: IT IS THE CONTRACTORS RESPONSIBILITY TO USE PROPER ANCHOR BOLTS AND PROVIDE A CONTINUOUS LOAD PATH FROM TRUSS/RAFTER/RIDGE BEAM TO FOUNDATION

STRAP RAFTERS TO TRUSS OR AT EACH END WITH MIN UPLIFT RESISTANCE OF 450 LBS EACH END. STRAP RIDGE BEAM AT EACH END WITH MIN UPLIFT RESISTANCE OF 1800 LBS

NOTE: FOUR (4) 12d COMMON TOENAILS (2 ON EACH SIDE) REQUIRED PER TRUSS/RAFTER PER BEARING POINT INTO PLATE TO RESIST BOTH LATERAL LOADS (WALL TO TRUSS) AND TRANSVERSE LOADS (MAX PLATE HEIGHT = 12', NOT INCLUDING GABLE)

HORIZONTAL RESISTANCE (FROM TRUSS LOADS) - NOTE: THESE DEVICES ARE IN ADDITION TO REQUIRED TOENAILS

UP TO 110 LBS - USE H2.5A
UP TO 525 LBS USE H10
UP TO 1090 LBS USE H10 PLUS A23

NOTE: HARDWARE TO BE USED MUST SATISFY BOTH UPLIFT AND HORIZONTAL RESISTANCE. COMBINATION OF DEVICES IS ACCEPTABLE.

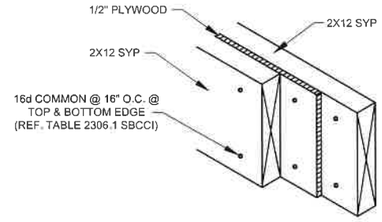
	TOP		BOTTOM	
BEAM SEATS	LSTA18*	1235	LTT19*	1350
POSTS	2-LSTA18	2400	ABU44* OR ABU66*	2200
* OR PER TRUSS ENGINEERING			* MUST USE PROPER ANCHOR BOLTS	

STUDS

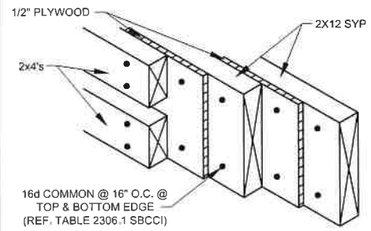
WALL SHEATHING NAILING ADEQUATE EXTERIOR WALLS BOTTOM (8d NAILS @ 3" O.C.)
WALL SHEATHING NAILING ADEQUATE EXTERIOR WALLS TOP (8d NAILS @ 3" O.C.) AS LONG AS SHEATHING COVERS TOP PLATE, OTHERWISE USE SP2 @ 32" O.C. IN ADDITION TO SHEATHING NAILING.
USE SP2 TOP AND SP1 BOTTOM EACH STUD AND ANCHOR BOLTS @ 32" O.C. FOR ALL INTERIOR LOAD BEARING WALLS THAT HAVE UPLIFT. INTERIOR ANCHOR BOLTS TO BE 1/2"X8" A307 OR 1/2"X6" WEDGE ANCHORS WITH 2" WASHERS

NOTE: ALL BEAMS MUST BE SHEATHED OR STRAPPED TO DOUBLE TOP PLATE (IF APPLICABLE) AN EQUIVALENT DEVICE OF SAME OR OTHER MANUFACTURERS CAN BE SUBSTITUTED FOR ANY OF THE DEVICES SPECIFIED ON THIS PAGE AS LONG AS IT MEETS THE REQUIRED LOAD CAPACITIES.
NOTE: FOR NAILING INTO SPF MEMBERS, MULTIPLY TABLE VALUES BY .86

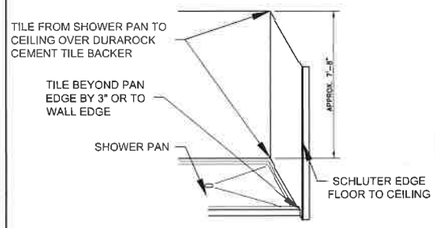
H-1 TYPICAL 2X4 WALL HEADER DETAIL



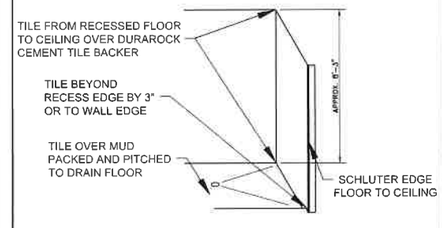
H-3 TYPICAL 2X6 WALL HEADER DETAIL



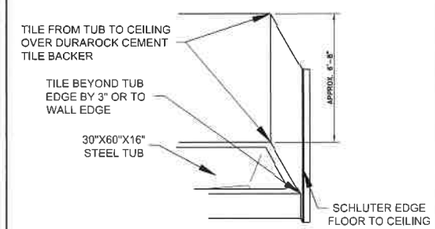
SP-1 TYPICAL SHOWER PAN TILE DETAIL



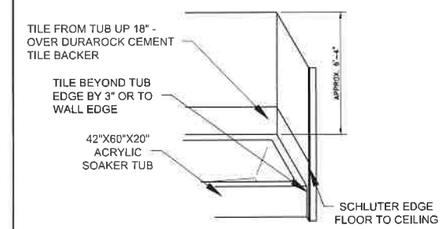
RS-1 TYPICAL RECESSED SHOWER TILE DETAIL



BT-1 TYPICAL BATH TUB TILE DETAIL



LT-1 TYPICAL LUXURY BATH TUB TILE DETAIL



RED DOOR HOMES
7420 W NEWBERRY RD, SUITE B
GAINESVILLE, FL 32605
(352) 559-3050
#CBC1262184

RED DOOR homes

DETAIL PAGE

SCALE (TYPICAL) 1/4" = 1'-0"

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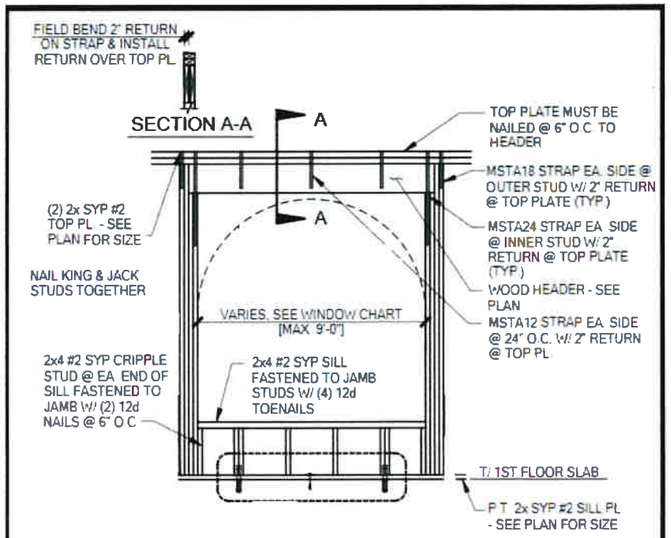
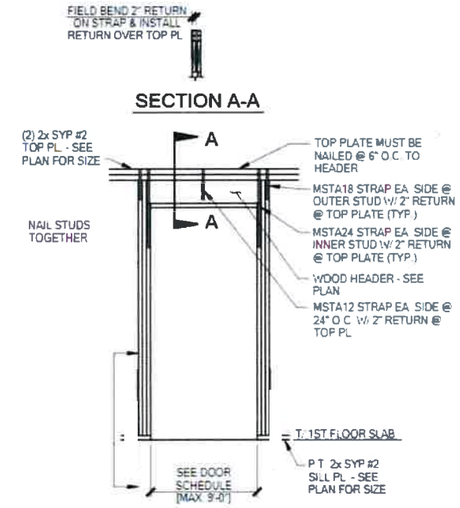
PAGE D 1



EXT. WINDOW HEADER W/ JAMB HOLDOWN - 1ST FLOOR FRAMING

KK

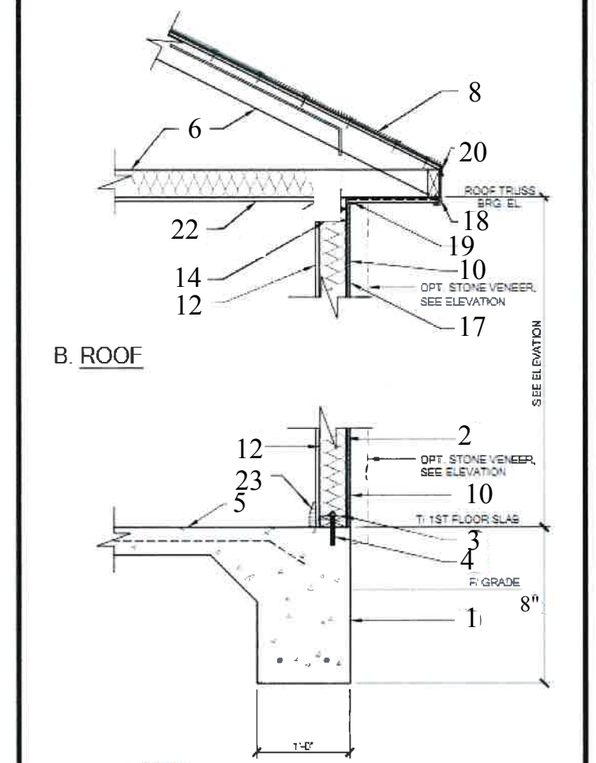
SCALE: N.T.S.



EXT. MAN DOOR HEADER W/ JAMB HOLDOWN - FRAMING

JJ

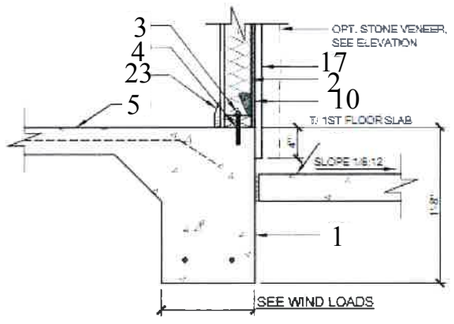
SCALE: N.T.S.
MAXIMUM DOOR OPENING = 6'-4"



ONE STORY WALL SECTION - STANDARD

1

SCALE: N.T.S.



PARTIAL SECTION - SIDE WALL

10

SCALE: N.T.S.

WALL SECTION KEY NOTES

1. MONOLITHIC CONCRETE FOUNDATION, SEE FOUNDATION PAGE.
2. 2X4 SYP #2 WOOD WALL OR COLUMN, SEE PLAN FOR SIZE, SPACING & CONNECTORS.
3. (1) p.t. #2 SYP 2X4 SILL PLATE (UNLESS NOTED).
4. SEE WIND LOADS FOR TYPICAL SILL PLATE FASTENING -ANCHORS OR HOLDOWNS SHALL BE INSTALLED IN EVERY SEPARATE PIECE OF SILL PL.
5. CONCRETE SLAB (SEE PLAN)
6. PRE-ENGINEERED ROOF TRUSSES @ 24" O.C., MAX. INSULATION w/ OPEN BAFFLE, @ A/C SPACE LOCATIONS
7. CONT. 2x4 SYP #2 PLATE FASTENED TO TOP PL. W/ 12d TOENAILS @ 6" O.C
8. ROOF ASSEMBLY:
   UNDERLAYMENT SHALL CONFORM WITH ASTM D 226 TYPE II, FIBERGLASS SHINGLES. ASTM D 225, ASTM D 3462, ASTM D 3161 MODEL #20YR. CLASSIC AR, ATTACH w/ (6) 1 1/4" 11-12GA. w/ 3/8" HEAD ROOFING NAIL PER STRIP OR (2) PER INDIVIDUAL SHINGLE, ASPHALT SHINGLES MANUFACTURED BY OWENS CORNERING.
   26GA. GALV. STEEL 4x4 L FLASHING
   UNDERLYING SHALL BE PER FBC R905.1 OVER SHEATHING, SEE MANUFACTURE INSTALLATION INSTRUCTIONS.
   7/16" OSB SHT'G w/ 8d RING/ SCREW SHANK NAIL (AS PER R803.2.3.1) 4" O.C. EDGES AND 6" O.C. FIELD (3" O.C. @ GABLE END TRUSSES) w/ CLIPS ON TRUSSES.
9. FLAT 7/16" OSB SOFFIT ON UNDERSIDE OF ROOF TRUSSES. ATTACH OSB TO TRUSSES w/ 8d NAILS @ 4" O.C. EDGES AND 4" O.C. FIELD OR 8d SCREW SHANK @ 4" O.C. EDGES AND 4" O.C. FIELD.
10. 7/16" STRUCTURAL I OSB WALL SHEATHING ON EXT. WALLS w/ ALL EDGES BLOCKED & ATTACH w/ 8d NAILS @ 3" O.C. EDGES AND 6" O.C. FIELD OR 16GA. x 1 3/4" STAPLE @ 2" O.C. EDGES AND 4" O.C. FIELD.
11. 2x4 #2 SYP BOTTOM PLATE, NAILED w/ 10d NAIL @ 6" O.C. TO 2x RIBBON OR INSIDE PLY OF DOUBLE PLY RIM BOARD
12. 1/2" DRYWALL AND R-13 INSULATION.
13. 2X WOOD HEADER OR BEAM @ OPENING, SEE SECOND FLOOR PLAN FOR SIZE & CONNECTORS.
14. (2) 2x4 #2 SYP TOP PLATES
15. SOLID BLOCKING BETWEEN FLOOR TRUSSES.
16. 2x8 #1 SYP STUDS @ 16" O.C. OR 2x8 #2 SYP STUDS @ 12" O.C. @ AREAS OPEN FROM FIRST FLOOR TO 2ND FLOOR CEILING. STUDS SHALL BE CONT. FROM P.T. 2x8 SILL PL. TO (2) 2x8 TOP PL. ATTACHED STUDS TO TOP PL. & SILL PL. W/ (1) USP MP7 FRAMING ANGLE EA. END W/ (10) 10d x1 12" NAILS
17. VINYL SIDING OR HARDI PANEL (STONE VENEER DASHED) - SEE ARCH. DWG'S. FOR REQUIREMENTS & INSTALL ALL COVERINGS PER MANUFACTURER RECOMMENDATIONS.
18. ALUM. FASCIA ON 2x4 OR 2x6 SUB-FACIA, 1 1/4" SS TRIM NAIL THRU FASCIA, SOFFIT AND INTO SUB-FASCIA @ 48" O.C.
19. VENTED SOFFIT AND J-CHANNEL, STAPLE SOFFIT TO SUB-FACIA @ 8" O.C. ATTACH J-CHANNEL w/ 3/8" X 5/8" STAPLE @ 16" O.C. INTO ROOF TRUSS OR SUB-FASCIA. INSTALL INTERMEDIATE 2x NAILERS AS REQ'D. USE CORROSION-RESISTANT FASTENERS FOR ALL SOFFITS & J-CHANNEL ATTACHMENTS
20. METAL DRIP EDGE.
21. VALLEY FLASHING, AS REQUIRED
22. 1/2" CEILING BOARD w/ INSULATION AS REQUIRED.
23. WOOD BASE (SEE ARCH. DWG'S.)
24. PIER BASE AND CAP TRIM, SEE EXTERIOR ELEVATIONS.
25. FASTEN 2ND FLOOR COL. TO RIM BOARD W/ (2) MSTA18'S & FASTEN RIM BOARD TO 1ST FLOOR COL. W/ (2) MSTA18'S

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RED DOOR homes

DETAIL PAGE

SCALE (TYPICAL) 1/4" = 1'-0"

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PAGE D 2

Wind Load Analysis and Certification

Cook Residence by Red Door Homes

2020 Florida Building Code section 1609 according to ASCE 7-16
Ultimate Design Wind Speed (Vult) = 130 MPH (3 second gust)
Nominal Design Wind Speed (Vasd)) = 101 MPH
Risk Category = II
Exposure Category = B, Enclosed Building
Applicable Internal Pressure Coefficient = .18
Design Wind Pressure for use of External Components (Components and Cladding)= +32.1psf, -43.3psf
Overhead Garage Door: +15.2psf, -16.9psf

Roof Decking
7/16" or 5/8" OSB or ½", 5/8"or ¾" CDX Decking; 48"x96" Sheets, Perpendicular to Roof Framing Members
8d common (.131" dia) or 8d ring-shank (.113' dia.) nails at 4" O.C. on Ends, 8" O.C. in Interior
Trusses or Rafters at 2' O.C. (horizontal distance), No Intermediate Blocking Required
Rafters: 2x6 SYP #2 up to 10' horizontal span, 2x8 SYP #2 up to14' horizontal span

Shear Wall Segments
7/16" OSB or ½" CDX plywood, 48" Wide Sheets - Sheathing Continuous from Top Plate down to Pressure Treated Sole Plate Bearing on Foundation.
8d common (.131" dia) nails at 3" O.C. on Edges and Ends, 8" O.C. in Interior
Transverse Shearwall = 50', Longitudinal Shearwall = 38'
2x4 SPF (No. 1&2) Studs at 16" O.C., up to 12'
or: 2x6 SPF (No. 1&2) Studs at 16" O.C., up to 17'
See attached detail for stud and jack requirements for wall openings
Nail Together Double Top Plate 6" O.C. w/12-d Common Nails (SYP top plates)
Other Wall Segments - Same as Shear Walls

Gabled End Wall Framing
Balloon Frame (see details) or see attached alternate details. This includes porch walls parallel to trusses.

Special Notes: All headers and beams to be double 2x12 SP#2. **This structural and windload analysis is based on the attached truss layout. Any deviation from the attached layout invalidates this structural and windload analysis.**

Footings and Foundations (Based on Truss Engineering)
20" deep x 14" wide monolithic with 2-#5's, Continuous, 3000 psi Concrete
Garage Mono: depth of garage mono footer shall be a min of 18" below the garage slab and any curb shall be a min of 6" wide and a maximum of 6" deep or 8" wide and 8" deep. Any curb deeper than this requires special engineering design.
or: 20" Wide x 10" Deep 3000 psi Concrete Strip Footing with 2-#5's, Continuous
8"x8"x16" Concrete Masonry Stemwall, Mimimum 2 Courses, Maximum 4 Courses, Fully Grouted, except sections over 3 courses need only cells with rebar to be grouted. 1-#5 Vertical Dowel at Corners **and 6'-0" O.C.** (10" hook top and bottom) (min 25" lap all #5 rebar) Max distance between top of garage floor and top of stemwall = 18" **(1) #5 continuous top course. All 4" slabs requires 6x6 WWM**
Interior footers: 16" wide by 10" deep (including 4" slab) with 2-#5's, Continuous,
Note: It is the contractors responsibility to install all necessary interior footers per truss manufacturers requirements based on the attached truss layouts.
Porch Footers: 16" deep x 14" wide monolithic with 2-#5's, Continuous or see above or: 8" wide by 8" deep bell footing with 1-#5, Continuous with minimum of 30"x30" x 15" pad under each post (w/ 3- #5 each way)
Note: footer design based on continuous bearing. Footers for any concentrated loads greater than 10,000 lbs must be reviewed with windload engineer. Movement – The information presented in this document is not calculated or intended for the use or purpose of mitigating or addressing unsuitable soils or subsurface conditions in any way or manner, whatsoever.

Hurricane-Resistance Hardware (Based on Truss Engineering)
Truss Clips/Headers/Girders/Posts/Beams /Top and Bottom of Wall Unit - See Table
Anchor Bolts- 1/2"Dia. x 10" J Bolts (with min 8" embedment) at 48"O.C. (First bolt at 9" from Corner, then 48" O.C.) and at each end of Each Opening (2" round or square washers).

HOLD-DOWN TABLE

Wood Sections	Uplift Force	Top Connector	Rating	Bottom Connector	Rating
	Lbs	Simpson **	Lbs	Simpson **	Lbs
HEADERS					
up to 455 lbs		LSTA9	775	H3	455
up to 910 lbs		LSTA12	970	2-H3	910
up to 1235 lbs		LSTA18	1235	LTT19	1350
up to 1750 lbs		2-LSTA12	1940	LTT20	1750
up to 2470 lbs		2-LSTA18	2470	HD2A-2.5	2565
up to 2775 lbs		3-LSTA18	3705	HD2A-3.5	2775
up to 3705 lbs		3-LSTA18	3705	HD5A-3	3705
To determine uplift force on header at each end, total the uplifts for each truss resting on the header and divide by 2					
(assumes uniform load)	Note: must use proper bolt anchors sufficient to support required load				

Trusses/Girders - Uplift
up to 600 lbs - use H2.5A top, no special device required at bottom
over 600 lbs but under 990 lbs use H10 top, no special device required at bottom
up to 1215 lbs use TS22 or equivalent at top and LTT19 at bottom
up to 1750 lbs use 2-TS22 or equivalent at top and LTT20 at bottom
up to 2430 lbs use 2-TS22 or equivalent at top and HD2A bottom
up to 3645 lbs use 3-TS22 or equivalent at top and HD5A bottom
Must Use proper bolt anchors

Note: it is the contractors responsibility to provide a continuous load path from truss/rafter/ridge beam to foundation
Strap rafters to truss or at each end with min uplift resistance of 450 lbs each end
Strap ridge beam at each end with min uplift resistance of 1800 lbs

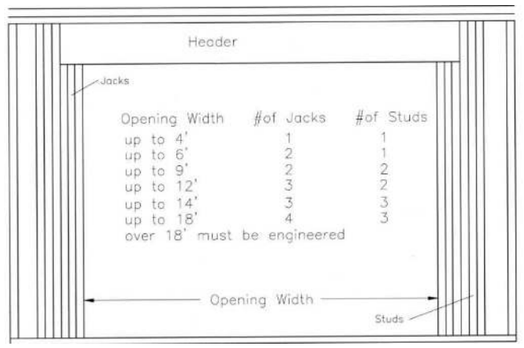
Note: Four (4) 12d comm toenails (2 on each side) required per truss/rafter per bearing point into plate to resist both lateral loads (wall to truss) and transverse loads (max plate height =12', not including gable)

Horizontal Resistance (from truss loads) - Note: these devices are in addition to required toe-nails	
up to 110 lbs - use H2.5A	Note: hardware to be used must satisfy both
up to 525 lbs use H10	uplift and horizontal resistance, combination
up to 1090 lbs use H10 plus A23	of devices is acceptable

BEAM SEATS	top		bottom	
	LSTA18"	1235	LTT19"	1350
POSTS	2-LSTA18	2400	ABU44 or ABU66	2200
	* or per truss engineering		Must Use proper bolt anchors	
STUDS				

Wall Sheathing Nailing Adequate Exterior Walls bottom (8d nails at 3" O.C.), must cover sill plate
Wall Sheathing Nailing Adequate Exterior Walls Top (8d nails at 3" O.C.), as long as sheathing covers top plate, otherwise use SP2 @32" O.C. in addition to sheathing nailing.
Use SP2 top and SP1 bottom each stud an ancor bolts @ 32" O.C. for all interior load bearing walls that have uplift. Interior anchor bolts to be 1/2" x 8" A307 or 1/2" x 6" wedge anchor with 2" washers
Please Note:All Beams must be sheathed or strapped to double top plate (if applicable)
An equivalent device of same or other manufactures can be substituted for any of the devices specified on this page as long as it meets the required load capacities
Note: For nailing into SPF members, multiply table values by .86

Number of Jack and Stud Requirements per Opening Width
2x4 or 2x6 SPF #1&2 Construction – max Wall Height=12'
(based on 16" O.C. Stud Spacing)

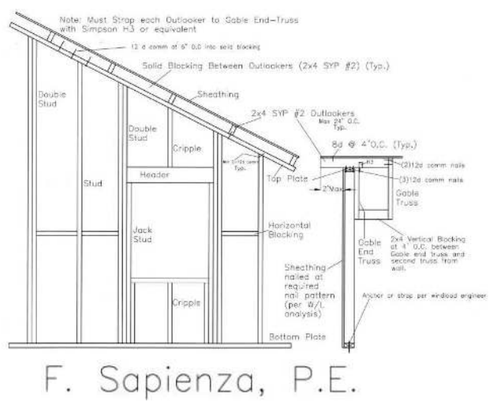


Note – Based on uniform loads. Heavy concentrated loads require engineering review

Acceptable Framing Method for Balloon Framed Gable End–Wall with trusses

Balloon Frame with 2x4 SPF No.1&2 @ 16" O.C. with the Following Conditions:
Up to 12' – Block at 8'
Over 12' but Under 14' – 2x4 SYP #2 at 16" O.C. and Block at 4',8'&12'
Over 14' but Under 17' – Double 2x4 SYP #2 at 16" O.C. and block at 4',8',12'&16'
Over 17' but Under 20' – Triple 2x4 SYP #2 at 16" O.C. and block at 4',8',12'&16'
Over 20' but Under 23' – Quadruple 2x4 SYP #2 at 16" O.C.and block at 4',8',12',16'&20'
Over 23' – Must be Engineered
In all cases a minimum of a double full length stud is required at each side of openings such as doors and windows

Blocking must be parallel to top and bottom plates with a minimum of 2–12d comm nails



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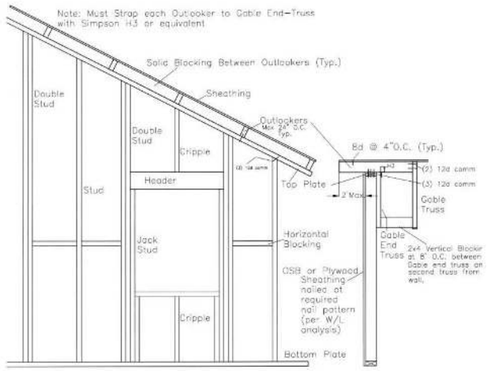
Acceptable Framing Method for Balloon Framed Gable End–Wall

Balloon Frame with 2x6 SYP No.2 @ 16" O.C. with the Following Conditions:
Up to 18' – Block at 8' and 16'
Over 18' but Under 21' – Double stud and block at 8' & 16'
Over 21' but Under 24' – Triple SYP #2 and block at 4',8',12' & 16'
Over 24' – Must be Engineered
In all cases a minimum of a double full length stud is required at each side of openings such as doors and windows

Blocking must be parallel to top and bottom plates with a minimum of 3–12d comm nails



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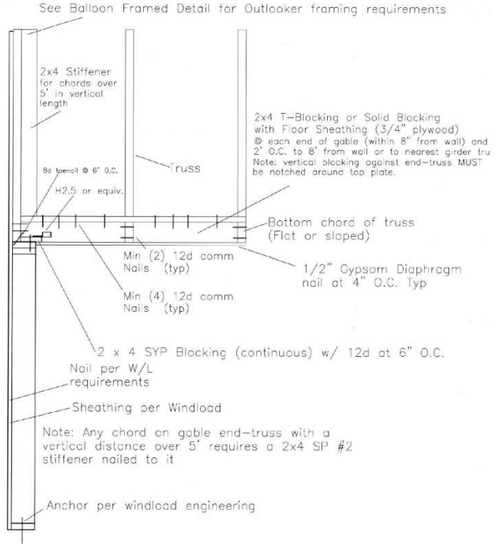
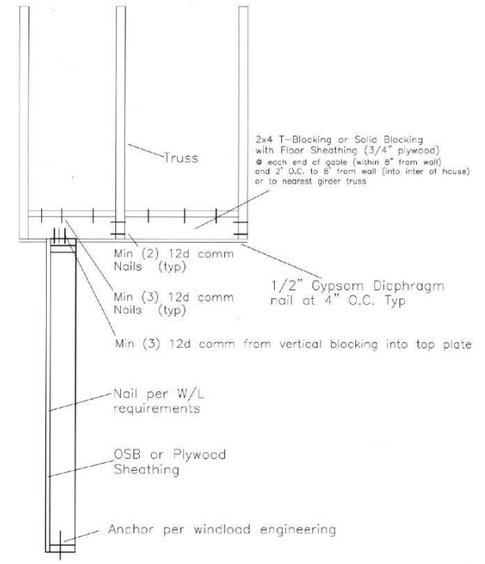
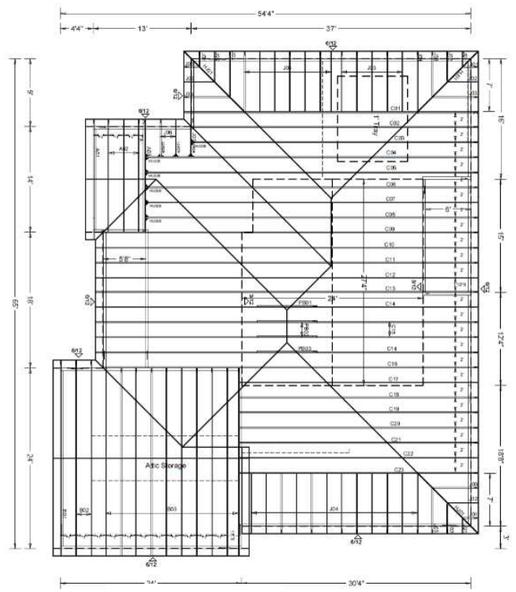
Gable Endwall Framing
with Gable End–Truss

See Balloon Framed Detail for Outlooker framing requirements



Porch Interior Wall Detail





W.B. Howland Truss Co.
610 11th St. SW
Live Oak, FL 32064
(386) 362-1235
(386) 362-7124 (Fax)
howlandtruss@gmail.com

ROOF PITCH: 6/12
OVERHANG: 1'
CEILING: 8' w/Tray
EXT. WALLS: 4"
LOADING: 40psf
WIND LOAD: 130mph
EXPOSURE: B

DATE: 10/27/22

Truss to Truss Connectors:
(3) LUS26
(6) HUS26

RED DOOR HOMES
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(352) 559-3050
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RED DOOR homes

DETAIL PAGE

SCALE (TYPICAL)

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PAGE
Wind Loads 1