

FRONT PERSPECTIVE VIEW

FOR ILLUSTRATION ONLY

NO SCALE



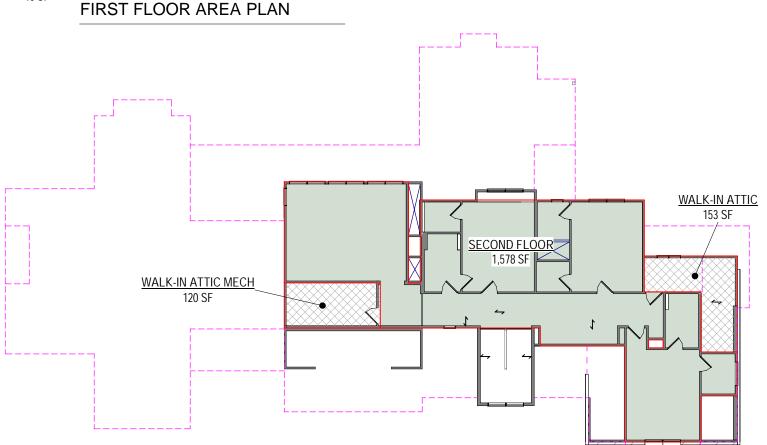
DOOR SCHEDULE					
TYPE Mark	PANEL TYPE	COUNT	WIDTH x HEIGHT	COMMENTS	
EXTER	IOR				
D01	OVERHEAD GARAGE DOOR	1	O.H.D. 18'-0" x 8'-0"		
D02	OVERHEAD GARAGE DOOR	1	O.H.D. 9'-0" x 8'-0"		
D03	HINGE, DOUBLE-ARCHED	1	(2) 3'-0" x 10'-0"		
D04	SLIDING GLASS DOOR UNIT-FULL LT	1	18'-0" x 10'-0"		
D05	HINGE- 1/2 LT	2	3'-0" x 8'-0"		
D06	2 PNL SLD	1	8'-0" x 8'-0"		
D07	HINGE,DOUBLE -FULL LT	1	(2) 2'-6" x 8'-0"	UNIT OPENING	
D10	HINGE	1	3'-0" x 8'-0"	FLUSH DOOR	
INTERI		9			
D08	HINGE	6	2'-6" x 8'-0"		
D08	HINGE	12	2'-8" x 8'-0"		
D08	HINGE	6	3'-0" x 8'-0"		
D09	PKT. DR.	1	2'-8" x 8'-0"	UNIT OPENING	
D09	PKT. DR.	1	3'-0" x 8'-0"	UNIT OPENING	
		26			
TOTAL	COUNT:	35			

REAR PERSPECTIVE VIEW

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SECOND FLOOR AREA PLAN

STYLE	WIDTH x HEIGHT	COUNT
3'-0"x6'-3" ARCH	3'-0"x 6'-3" MULLED ARCH	1
3'-0"X6'-3" ARCH 2	3'-0"x 6'-3" MULLED ARCH	1
3'-0"X6'-6" ARCH	3'-0"x 6'-6" MULLED ARCH	1
CSMT	3'-0" x 5'-0"	2
CSMT	3'-0" x 6'-0"	9
FG	1'-6" x 2'-0"	2
FG	1'-6" x 7'-0"	2
FG	2'-0" x 3'-0"	7
FG	2'-0" x 4'-0"	5
FG	2'-6" x 2'-0"	2
FG	2'-6" x 4'-0"	2
FG	3'-0" x 2'-0"	5
FG	3'-0" x 3'-0"	6
FG	3'-0" x 6'-0"	13
FG	3'-0" x 7'-0"	8
FG	4'-0" x 2'-0"	4
FG	4'-0" x 7'-0"	3
HALF RND	5'-0" x 2'-6"	1
HALF RND TOTAL CO		1

GENERAL NOTES:

COMMENCING ADDITIONAL WORK.

FLOOR & PER IRC SEC 310.

DEED RESTRICTIONS PRIOR TO COMMENCING CONSTRUCTION.

6. ONE-HOUR RATED GYPSUM BOARD SHALL BE INSTALLED UNDER STAIRS. 7. PROVIDE CROSS VENTILATION AT ENCLOSED ATTICS PER IRC R806.

14. WALLS SHALL BE BRACED IN ACCORDANCE OF IRC SEC R602.10.

20. ALL SITE & SURVEY INFORMATION PROVIDED BY OTHERS.

PLUMBING SHALL BE PROVIDED BY OTHERS.

WP/GFI

USB

110V SD/CMD

U.C.L.

i ?'x?' LED i

21. SITE GRADING AND DRAINAGE PLANS PROVIDED BY OTHERS.

16. ROOF OVERHANGS SHALL NOT EXTEND INTO ANY UTILITY EASEMENTS.

15. GLAZING SHALL COMPLY WITH IRC SEC. R308.

MANUFACTURER'S SPECIFICATIONS.

ROOMS ABOVE GARAGE BY 5/8" TYPE X GYP. BD. AND COMPLY WITH IRC SEC. R302.

8. ELECTRICAL CONTRACTOR TO LOCATE 110V OUTLET WITHIN 25'-0" OF A/C COMPRESSOR (GFI).

ALL CONSTRUCTION SHALL CONFORM TO BUILDING CODES REQUIRED BY ALL AUTHORITIES HAVING

5. CONTRACTOR IS TO PROVIDE STEEL LINTELS ABOVE ALL OPENINGS WITH MASONRY ABOVE PER IRC SEC. 703.8.

9. FIREPLACE CHIMNEY TO BE 2'-0" HIGHER THAN ANY STRUCTURE WITHIN 10'-0" (& 3'-0" MIN. HEIGHT AT RIDGE).

11. SMOKE ALARMS SHALL BE HARD WIRED IN SERIES WITH BATTERY BACKUP POWER AS PER IRC SEC. R314.

RATING ON THE UNDERSIDE & SHALL NOT EXTEND TO WITHIN 4' OF PROP. LINE PER R302 & TABLE 302.1.

110V DUPLEX RECEPTACLE

110V QUADPLEX RECEPTACLE

SOFFIT SWITCH TO PLUG OUTLET 110V DUPLEX RECEPTACLE GROUND FAULT INTERUPT 110V DUPLEX RECEPTACLE

SWITCH TOP PLUG ONLY

110V DUPLEX RECEPTACLE

WATERPROOF 110V DUPLEX

110V DUPLEX w/ 2 OR 4 USB

GARAGE DOOR OPENER

SINGLE POLE SWITCH

THREE-WAY SWITCH

FOUR-WAY SWITCH

FIVE-WAY SWITCH

DIMMER SWITCH

PHONE OUTLET

ETHERNET OUTLET

DOORBELL CHIMES

SMOKE DETECTOR

SMOKE & CARBON

MONOXIDE DETECTOR

CEILING MOUNTED LIGHT FIX.

RECESSED MOUNTED CAN FIX.

DIRECTIONAL RECESSED MOUNTED CAN FIX.

FLUSH MOUNTED EYE-BALL

PENDANT FIXTURE

HANGING FIXTURE

EXHAUST FAN

WALL MOUNTED FIXTURE

UNDER-CABINET LIGHT

CEILING FAN WITH LIGHT

LANDSCAPE J BOX

FLOOD LIGHT

CEILING FAN

FLUSH MOUNTED

LED FIXTURE

WALL FAN

UNDER-CABINET STRIP GFI PLUG

SPOT FIX.

PUSH-BUTTON / DOORBELL

PUSH-BUTTON / COUNTERTOP

T.V. / CABLE OUTLET

110V DUPLEX RECEPTACLE HIDDEN

LINE DENOTES UNDER COUNTER

110V SINGLE PLEX RECEPTACLE

RECESSED FLOOR RECEPTACLE

RECEPTACLE

CHARGING PORTS

220V RECEPTACLE

13. ALL HORIZONTAL GUARD RAILS WILL BE A MINIMUM OF 36" IN HEIGHT & COMPLY WITH IRC SEC R312.

12. HANDRAILS SHALL BE INSTALLED ALONG ALL STEPS/STAIRS WITH 4 OR MORE RISERS AND CONFORM TO IRC SEC R311.

JURISDICTION OVER THE PROJECT. ALL IRC SECTIONS & TABLES REFERENCED REFER TO IRC 2021 VERSION.

1. <u>BUILDER SHALL VERIFY:</u> ALL LOT DIMENSIONS, EASEMENTS, BUILDING LINES, AERIAL EASEMENTS, HEIGHT RESTRICTIONS, ROOF

2. BUILDER & ALL SUBCONTRACTORS SHALL VERIFY ALL DIMENSIONS & NOTIFY ARCHITECT OF ANY DISCREPANCIES IMMEDIATELY BEFORE

3. THE GARAGE SHALL BE SEPARATED FROM THE RESIDENCE AND ITS ATTIC AREA BY NOT LESS THAN 1/2" GYP. BD. & FROM HABITABLE

4. ESCAPE/RESCUE WINDOW FROM SLEEPING AREAS SHALL HAVE A MINIMUM OF 5.7 SQ.FT. CLEAR NET OPENING AND A MINIMUM CLEAR OPENING HEIGHT OF 24" AND A MINIMUM CLEAR OPENING WIDTH OF 20". FINISHED SILL HEIGHT SHALL BE A MAXIMUM OF 44" ABOVE THE

10. FACTORY BUILT FIREPLACES SHALL BE INSTALLED IN ACCORDANCE w/ IRC SECTION R1004 & SHALL BE TESTED IN ACCORDANCE w/ UL 127.

17. IN AREAS UNDER IRC 2006 OR LATER, PROJECTIONS LESS THAN 5' FROM PROP. LINE SHALL HAVE A 1-HOUR MIN. FIRE RESISTANCE

18. ALL DETAILS SHOWN ARE GENERAL AND ILLUSTRATIVE IN NATURE. BUILDER SHALL BE RESPONSIBLE FOR OVERSEEING AND INSURING

ALL WATER-PROOFING, STRUCTURAL, AND OTHER CONSTRUCTION IS BUILT PROPERLY, PER CODES, INDUSTRY STANDARDS, AND

19. REFER TO ATTACHED RESIDENTIAL DETAIL SHEET(S) FOR STANDARD DETAILS & RECOMMENDATIONS FOR PORTIONS OF THE LATEST

IECC REQUIREMENTS FOR OTHER PROJECT CLIMATE ZONES. NOTIFY ARCHITECT IMMEDIATELY IF NOT INCLUDED IN THIS SET OF

22. ALL ENGINEERING DESIGNS INCLUDING, BUT NOT LIMITED TO, CIVIL, GEOTECHNICAL, STRUCTURAL, MECHANICAL, ELECTRICAL, AND

INTERNATIONAL ENERGY CODE COUNCIL (IECC) REQUIREMENTS (REFER TO AUTHORITIES HAVING JURSIDICTION AND CURRENT ADOPTED

DROP FLOOR DROP

GAS OUTLET

COLD WATER

1R 1S 1 ROD 1 SHELF

2R 1S 2 RODS 1 SHELF

AV AUDIO VISUAL

COV'D COVERED

CPT. CARPET

DBL. DOUBLE

C.O. CASED OPENING

DISP. GARBAGE DISPOSAL

D/O DOUBLE OVEN

DW DISH WASHER

F.F. FINISH FLOOR

K/S KNEE SPACE

N.T.S. NOT TO SCALE

R.O. RANGE WITH OVEN

SLP | SLOPED (CEILING OR FLOOR)

SRO | SHEET ROCK OPENING

T&G TONGUE AND GROOVE

T.B.D. TO BE DETERMINED

U.C. UNDER COUNTER

W.I.C. WALK IN CLOSET

WH WATER HEATER

WS WATER SOFTNER

V.T.R. VENT THROUGH ROOF

CSMT | CASEMENT WINDOW

DH DOUBLE HUNG

DL DIVIDED LITE

FG FIXED GLASS

HDR. HT. HEADER HEIGHT

O.H.D. OVER HEAD DOOR

PKT POCKET (DOOR)

SH SHINGLE HUNG

S.C. DOOR | SOLID CORE DOOR WITH

HS HORIZONTAL SLIDER WINDOW

U.N.O. UNLESS NOTED OTHERWISE

TD TRENCH DRAIN

REF. REFRIGERATOR

SEP SEPERATION

SHLVS SHELVES

TYP. TYPICAL

AWN AWNING

DR DOOR

HLF HALF

LT LITE

OPN'G OPENING

PNL PANEL

w/ CLSR | CLOSER

SFT'Y SAFETY

SLD SLIDER

TRANS TRANSOM

STL STEEL

MICRO | MICROWAVE

MTL. METAL

PLYWD. PLYWOOD

RE: REFER TO

FLR. FLOOR H. HIGH

D.V. DIRECT VENT

A.F.F. ABOVE FINISH FLOOR

HOT WATER

HB HOSE BIBB

TUB OR SHOWER HEAD

OVERHANG & GUTTER LIMITATIONS, FINISH FLOOR HEIGHTS (W/ RESPECT TO DRAINAGE & FLOOD PLAIN ISSUES), COVERAGE % AND ALL

SQUARE FOO	TAGES
FIRST FLOOR	3,372 SF
SECOND FLOOR	1,578 SF
TOTAL LIVING	4,950 SF
ARBOR PAD	93 SF
ENTRY PORCH	124 SF
GARAGE	1,047 SF
REAR COV'D PATIO	982 SF
SIDE PATIO	40 SF
WALK-IN ATTIC	153 SF
WALK-IN ATTIC MECH	120 SF
TOTAL UNCONDITIONED	2,559 SF
>>> TOTAL COVERED	7,509 SF

TOTAL UNCONDITIONED

+ Interiors

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LA 7-16-24 PRELIM/DD JA 7-26-24 DD REV JA 08-06-24 DD REV JA/LA 08-22-24 DD REV

JA 09-24-24 CS DS 10-31-24 LOT CHANGE LA 11-01-24 ISSUE

A RESIDENCE FOR

KEITH WING RANCHES AT DRIPPING SPRINGS

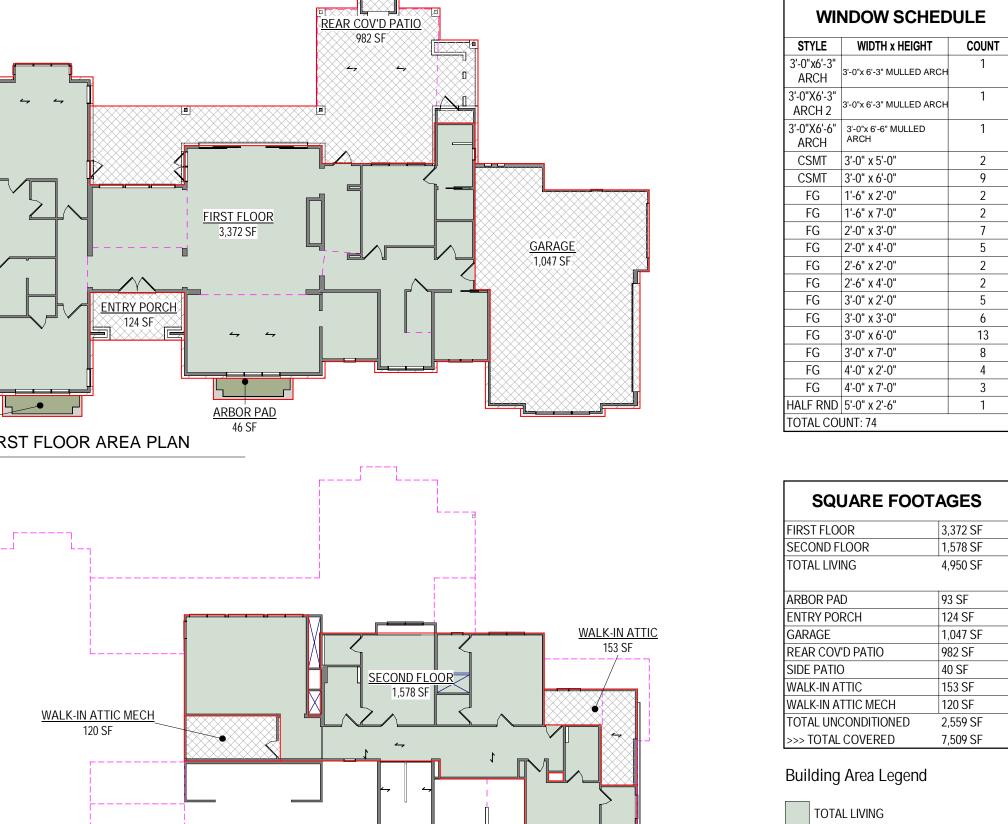
DRAWING INDEX SHEET# SHEET NAME **COVER SHEET** SITE PLAN FIRST FLOOR PLAN 4 SECOND FLOOR & ROOF EXTERIOR ELEVATIONS EXTERIOR ELEVATIONS INTERIOR ELEVATIONS & 8 FIRST FLOOR ELECTRICAL 9 SECOND FLOOR ELECTRICAL PLAN

> **KEITH WING** CUSTOM BUILDERS

COVER SHEET

#1 _{OF} 9 2GL-5-4951

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JA 08-06-24 DD REV

JA/LA 08-22-24 DD REV

JA 09-24-24 CS

DS 10-31-24 LOT CHANGE

LA 11-01-24 ISSUE

A RESIDENCE FOR

KEITH WING

RANCHES AT DRIPPING SPRINGS LOT 7

KEITH WING

SITE PLAN

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ARCHITECTS SEAL:

THEC / DEVICIONS

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JA 7-26-24 DD REV

JA 08-06-24 DD REV

JA/LA 08-22-24 DD REV

JA 09-24-24 CS

DS 10-31-24 LOT CHANGE

LA 11-01-24 ISSUE

1 LA 12-06-24 ADDENDUM1



1 12-06-24 ADDENDUM 1

A RESIDENCE FOR

KEITH WING
RANCHES AT
DRIPPING SPRINGS

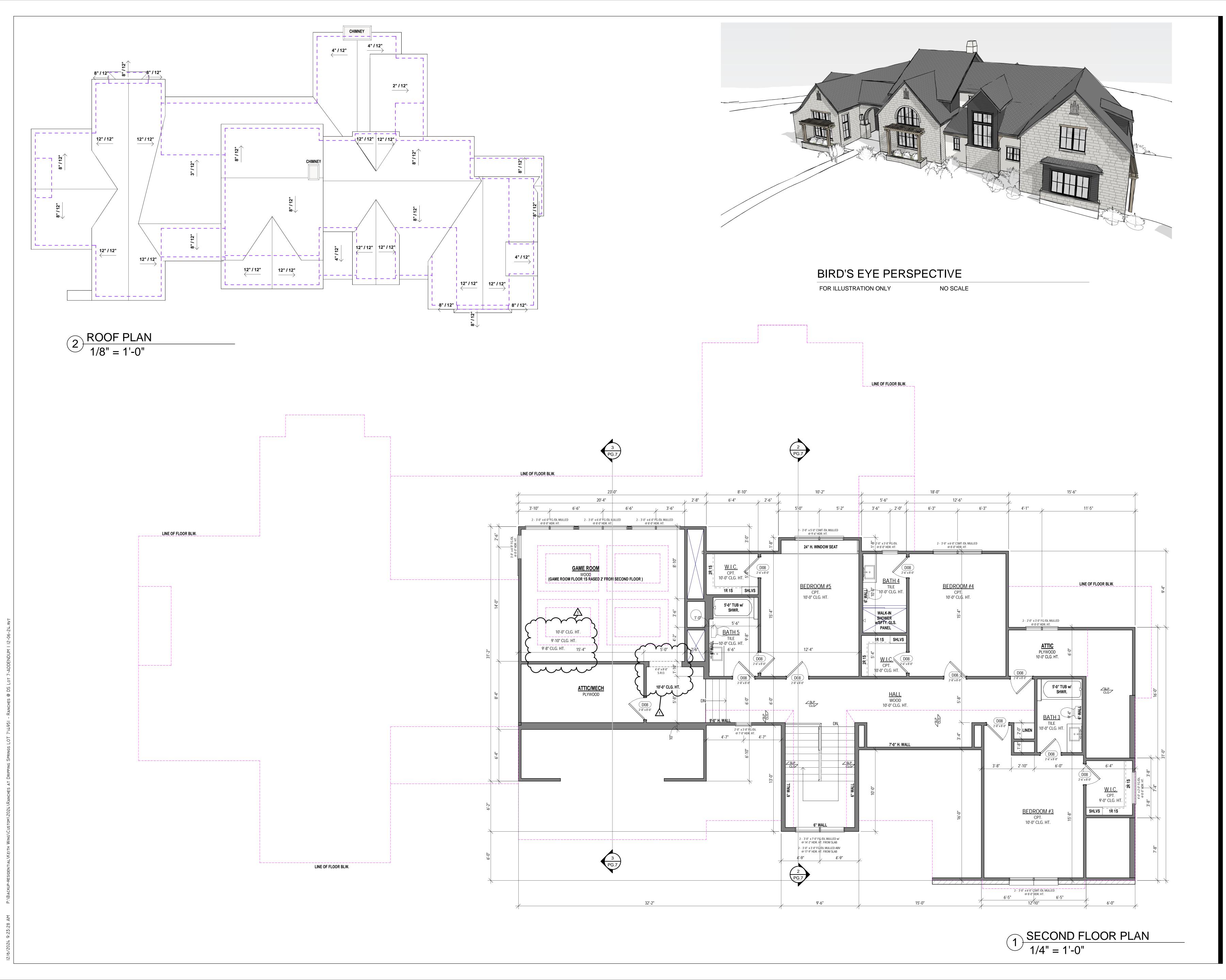
KEITH WING

FIRST FLOOR PLAN

#3 _{of} 9 2GL-5-4951

2GL-5-4951

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SSUES / REVISIONS:

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JA/LA 08-22-24 DD REV

JA 09-24-24 CS

DS 10-31-24 LOT CHANGE

LA 11-01-24 ISSUE

1 LA 12-06-24 ADDENDUM1

TOF TENO

1 12-06-24 ADDENDUM 1

A RESIDENCE FOR

KEITH WING
RANCHES AT
DRIPPING SPRINGS

KEITH WING

SECOND FLOOR & ROOF PLAN

#4 _{of} 9 2GL-5-4951



FRONT RIGHT PERSPECTIVE VIEW

FOR ILLUSTRATION ONLY

NO SCALE



 $2 \frac{\text{RIGHT ELEVATION}}{1/4" = 1'-0"}$

REAR LEFT PERSPECTIVE VIEW

FOR ILLUSTRATION ONLY

NO SCALE



NOTE:
CHIMNEY SHALL BE 2'-0" HIGHER THAN
NEAREST STRUCTURE WITHIN 10'-0"

3'-0" H. MIN.

FLAT CONC. TILE

METAL CHIMNEY CAP

┌┌──

METAL CHIMNEY CAP-

FLAT CONC. TILE

STUCCO

—SIDING—

STUCCO

STUCCO HDR.

1) FRONT ELEVATION

+ Interiors

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A RESIDENCE FOR

KEITH WING RANCHES AT DRIPPING SPRINGS

KEITH WING

EXTERIOR ELEVATIONS

#5 _{OF} 9 2GL-5-4951



FRONT LEFT PERSPECTIVE VIEW

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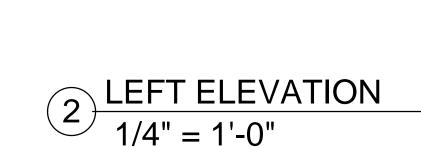
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REAR RIGHT PERSPECTIVE VIEW

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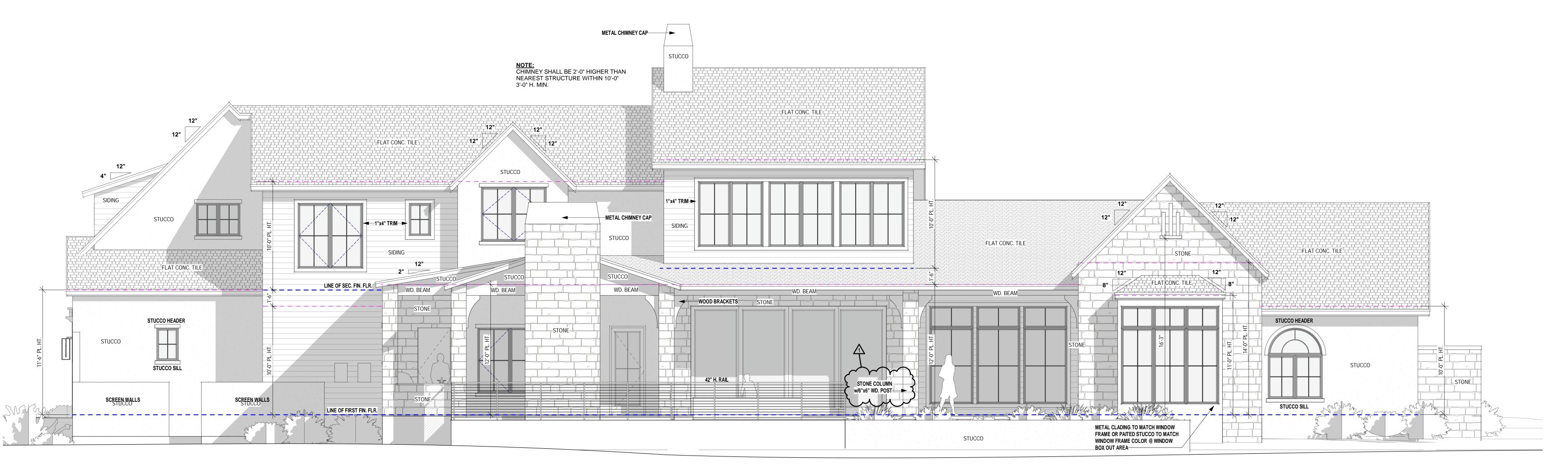
NO SCALE



METAL CHIMNEY CAP-

FLAT CONC. TILE

STEPS DN.



METAL CHIMNEY CAP-

NOTE: CHIMNEY SHALL BE 2'-0" HIGHER THAN NEAREST STRUCTURE WITHIN 10'-0" 3'-0" H. MIN. STUCCO

STUCCO

WD. BRACKETS

STONE CAP

FFLAT CONC. TILE

⊏FLAT CONC. TILI

 $1 \frac{\text{REAR ELEVATION}}{1/4" = 1'-0"}$



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LA 11-01-24 ISSUE

1 LA 12-06-24 ADDENDUM1

OF TEXASON

1 12-06-24 ADDENDUM 1

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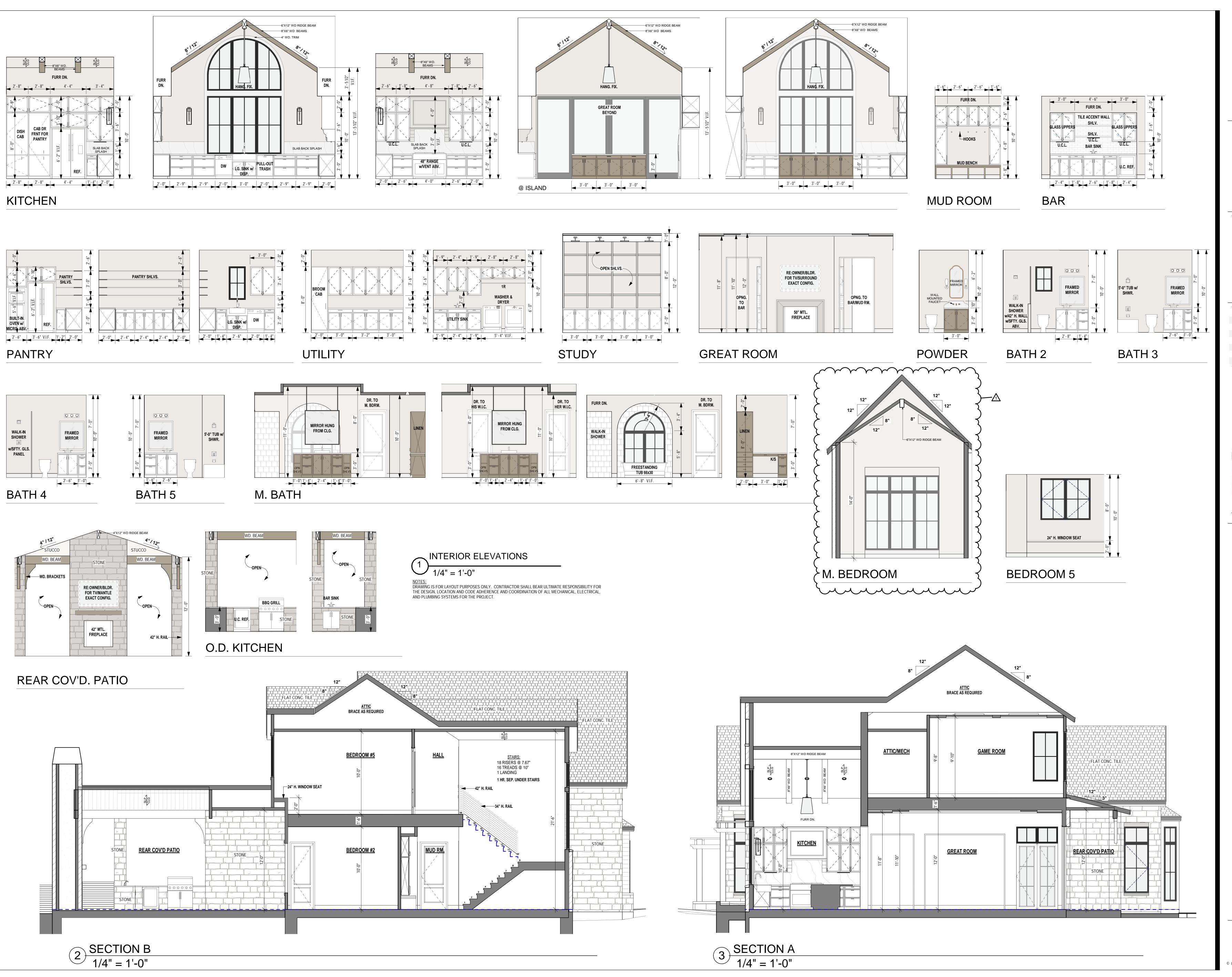
KEITH WING
RANCHES AT
DRIPPING SPRINGS
LOT 7

KEITH WING

EXTERIOR ELEVATIONS

#6 _{OF} 9 2GL-5-4951

12/6/2024 9:23:51 AM P:\BACKUP-RESIDENTIA



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TECTS SEAL:

PROBLEMS MAY ARISE.

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LA 11-01-24 ISSUE
1 LA 12-06-24 ADDENDUM1

ERED ARCHINE



1 12-06-24 ADDENDUM 1

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RANCHES AT
DRIPPING SPRINGS
LOT 7

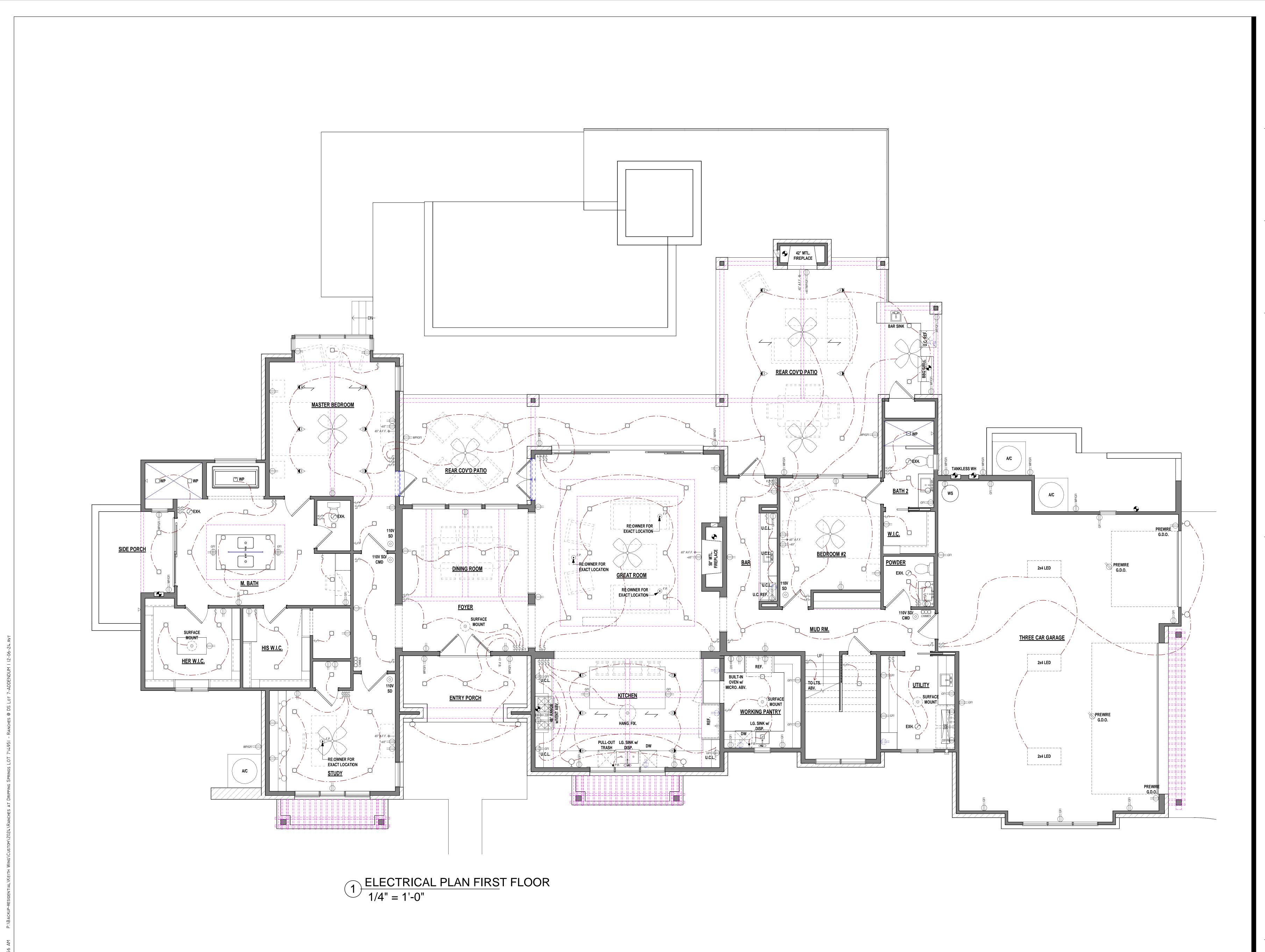
KEITH WING

INTERIOR ELEVATIONS & SECTIONS

#7 _{OF} 9

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PROBLEMS MAY ARISE.



LA 7-16-24 PRELIM/DD

JA 7-26-24 DD REV

JA 08-06-24 DD REV

JA/LA 08-22-24 DD REV

JA 09-24-24 CS

DS 10-31-24 LOT CHANGE

LA 11-01-24 ISSUE

A RESIDENCE FOR

KEITH WING
RANCHES AT
DRIPPING SPRINGS

KEITH WING

FIRST FLOOR ELECTRICAL PLAN

#8 _{of} 9 2GL-5-4951

1 ELECTRICAL PLAN SECOND FLOOR 1/4" = 1'-0"



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A RESIDENCE FOR

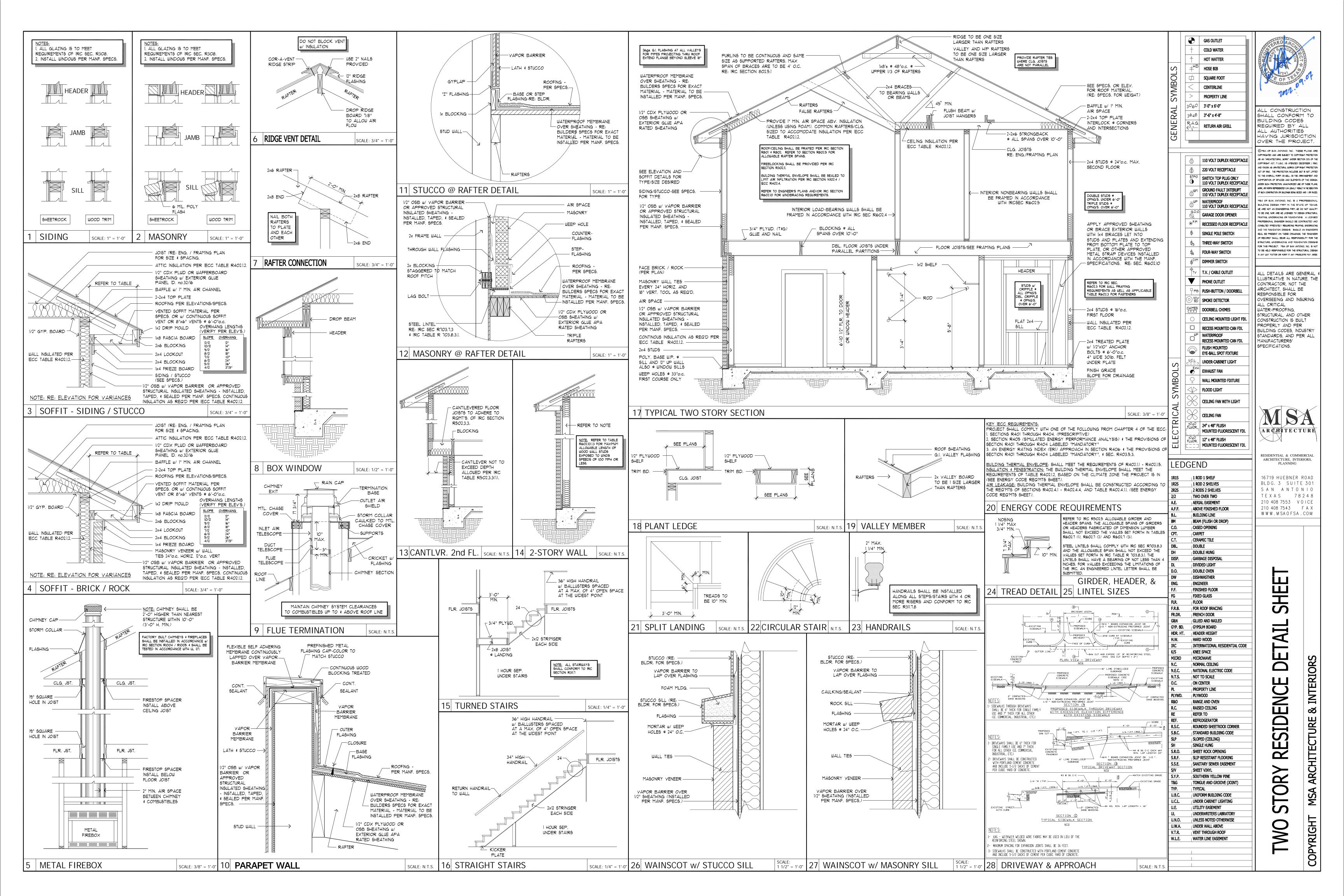
KEITH WING
RANCHES AT
DRIPPING SPRINGS
LOT 7

KEITH WING

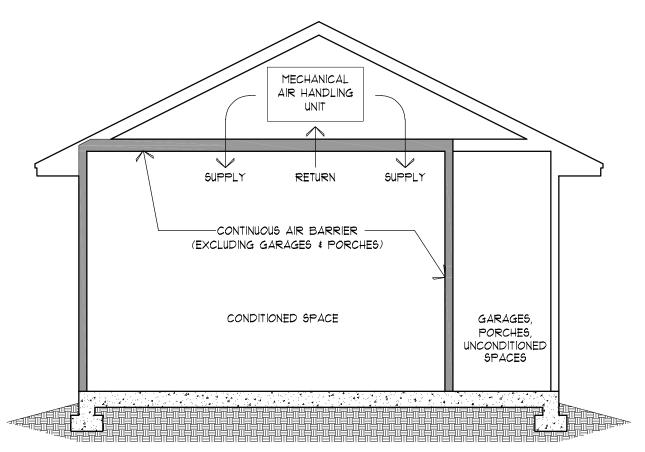
SECOND FLOOR ELECTRICAL PLAN

#9 _{OF} 9

2GL-5-4951
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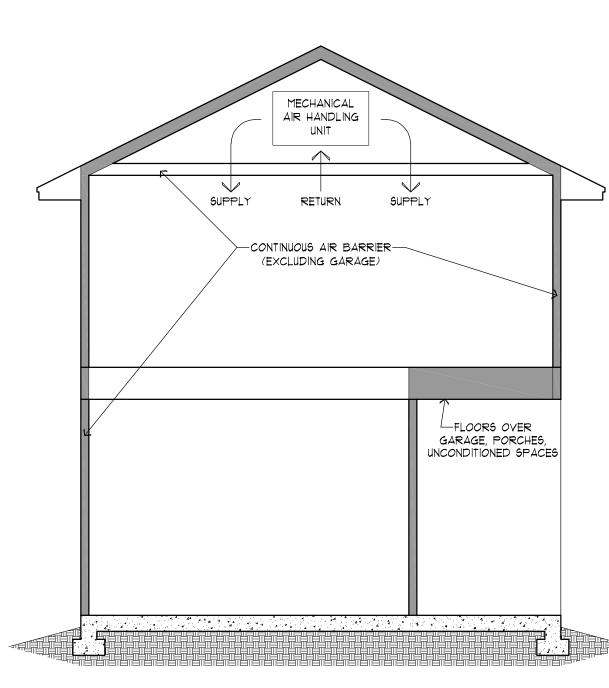


THERMAL BARRIER DIAGRAM - BLOWN-IN ATTIC INSULATION (2-STORY)



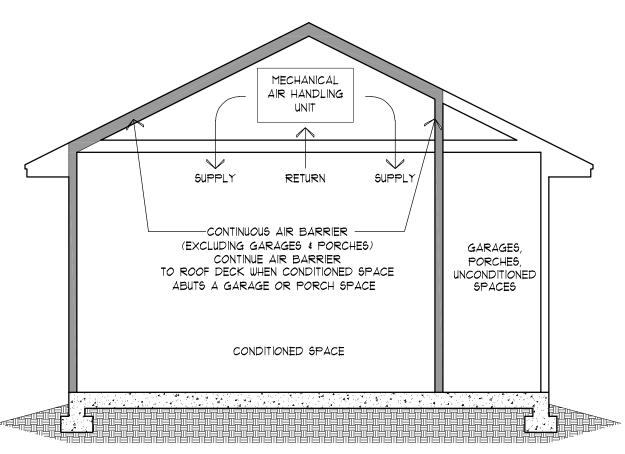
THERMAL BARRIER DIAGRAM - BLOWN IN ATTIC INSULATION (1-STORY)

SCALE: NOT TO SCALE



THERMAL BARRIER DIAGRAM - FOAM
ATTIC INSULATION (2-STORY)

9CALE: NOT TO 9CALE



THERMAL BARRIER DIAGRAM - FOAM ATTIC INSULATION (1-STORY) 5CALE: NOT TO 5CALE

R402 BUILDING THERMAL ENVELOPE

THE BLDG. THERMAL ENVELOPE SHALL MEET THE REQUIREMENTS OF SECTIONS R402.1.1 -

R402.1.2 INSULATION & FENESTRATION: THE BUILDING THERMAL ENVELOPE SHALL MEET THE REQUIREMENTS OF TABLE R402.1.2, BASED ON THE CLIMATE ZONE THE PROJECT IS IN. REFER TO CLIMATE ZONES (IECC TABLE R301.1).

	INSU	LATION WIN	IIMUM R-VALUE	S AND FE	NESTRATION	REQUIRE	MENTS BY	COMPONEN	I a	
CLIMATE ZONE	FENESTRATION U-FACTOR ^{b, I}	SKYLIGHT ^b <i>U-</i> FACTOR	GLAZED FENESTRATION SHGC ^{b, e}	CEILING R-VALUE	WOOD FRAME WALL R-VALUE	MASS WALL R-VALUE ^h	FLOOR R-VALUE	BASEMENT ^{c,g} WALL <i>R</i> -VALUE	SLAB ^d R-VALUE & DEPTH	CRAW SPACE WALL R-VALU
0	NR	0.75	0.25	30	13 or 0&10ci	3/4	13	0	0	0
1	NR	0.75	0.25	30	13 or 0&10ci	3/4	13	0	0	0
2	0.40	0.65	0.25	49	13 or 0&10ci	4/6	13	0	0	0
3	.30	0.55	0.25	49	20 or 13&5ci ^h or 0&15ci ^h	8/13	19	5ci or 13 ^f	10ci, 2 ft	5ci or 1
4 except Marine	.30	0.55	0.40	60	30 or 20&5ci ^h or 13&10ci ^h or 0&20ci ^h	8/13	19	10ci or 13	10ci, 4 ft	10ci or
5 and Marine 4	0.30 ⁱ	0.55	0.40	60	30 or 20&5ci ^h or 13&10ci ^h or 0&20ci ^h	13/17	30	15ci or 19 or 13&5ci	10ci, 4 ft	15ci or or 13&.
6	0.30 ⁱ	0.55	NR	60	30 or 20&5ci ^h or 13&10ci ^h or 0&20ci ^h	15/20	30	15ci or 19 or 13&5ci	10ci, 4 ft	15ci or or 13&.
7 and 8	0.30 ⁱ	0.55	NR	60	30 or 20&5ci ^h or 13&10ci ^h or 0&20ci ^h	19/21	38	15ci or 19 or 13&5ci	10ci, 4 ft	15ci or or 13&

For SI: 1 foot = 304.8 mm.

NR = Not Required.

ci = continuous insulation.
a. R-values are minimums. U-factors and SHGC are maximums. Where insulation is installed in a cavity that is less than the label or design thickness of the insulation, the installed R-value of the insulation shall be not less than the R-value specified in the table.
b. The fenestration U-factor column excludes skylights. The SHGC column applies to all glazed fenestration.

Exception: In Climate Zones 0 through 3, skylights shall be permitted to be excluded from glazed fenestration SHGC requirements provided that the SHGC for such skylights does not exceed 0.30.

c. "5ci or 13" means R-5 continuous insulation (ci) on the interior or exterior surface of the wall or R-13 cavity insulation on the interior side of the wall. "10ci or 13" means R-10 continuous insulation (ci) on the interior or exterior surface of the wall or R-13 cavity insulation on the interior side of the wall. "15ci or

19 or 13&5ci" means R-15 continuous insulation (ci) on the interior or exterior surface of the wall; or R-19 cavity insulation on the interior side of the wall; or R-13 cavity insulation on the interior of the wall in addition to R-5 continuous insulation on the interior or exterior surface of the wall.

d. R-5 insulation shall be provided under the full slab area of a heated slab in addition to the required slab edge insulation *R*-value for slabs. as indicated in the table. The slab-edge insulation for heated slabs shall not be required to extend below the slab.

table. The slab-edge insulation for heated slabs shall not be required to extend below the slab.

e. There are no SHGC requirements in the Marine Zone.

f. Basement wall insulation is not required in Warm Humid locations as defined by Figure R301.1 and Table R301.1.

g. The first value is cavity insulation; the second value is continuous insulation. Therefore, as an example, "13&5" means R-13 cavity insulation plus R-5 continuous insulation.
h. Mass walls shall be in accordance with Section R402.2.5. The second *R*-value applies where more than half of the insulation is on the interior of the mass

wall.
i. A maximum *U*-factor of 0.32 shall apply in Climate Zones 3 through 8 to vertical fenestration products installed in buildings located either:
1. Above 4,000 feet in elevation, or

2. In windborne debris regions where protection of openings is required by Section R301.2.1.2 of the *International Residential Code*.

R402.4 AIR LEAKAGE (MANDATORY): BUILDING THERMAL ENVELOPE SHALL BE CONSTRUCTED TO LIMIT AIR LEAKAGE IN ACCORDANCE TO THE REQ'MTS OF SECTIONS R402.4.1 - R402.4.5, AND TABLE R402.4.1.1.

R402.4.1.1 INSTALLATION: THE COMPONENTS OF THE BUILDING THERMAL ENVELOPE AS LISTED IN TABLE R402.4.1.1 SHALL BE INSTALLED IN ACCORDANCE WITH THE MANF. INSTRUCTIONS & THE CRITERIA LISTED IN TABLE R402.4.1.1, AS APPLICABLE TO THE METHOD OF CONSTRUCTION. WHERE REQUIRED BY THE CODE OFFICIAL, AN APPROVED THIRD PARTY SHALL INSPECT ALL COMPONENTS AND VERIFY COMPLIANCE.

R402.4.1.2 TESTING: THE BUILDING SHALL BE TESTED AND VERIFIED AS HAVING AN AIR LEAKAGE RATE NOT EXCEEDING 5 AIR CHANGES PER HR IN CLIMATE ZONES 1 & 2, & 3 AIR CHANGES / HR IN CLIMATE ZONES 3-8. TESTING SHALL BE CONDUCTED IN ACCORDANCE WITH RESNET/ICC 380 ASTM ETTS OR ASTM E 1821 AND REPORTED AT A PRESSURE OF 0.2 INCH W.G. (50 PASCALS). (REFER TO SECTION FOR ADDITIONAL REQUIREMENTS)

	TABLE R402.4.1.1 AIR BARRIER, AIR SEALING AND INSULA	TION INSTALLATION ^a
COMPONENT	AIR BARRIER CRITERIA	INSULATION INSTALLATION CRITERIA
General requirements	A continuous air barrier shall be installed in the building envelope. Breaks or joints in the air barrier shall be sealed.	Air-permeable insulation shall not be used as a seal material.
Ceiling/attic	The air barrier in any dropped ceiling or soffit shall be aligned with the insulation and any gaps in the air barrier shall be sealed. Access openings, drop down stairs or knee wall doors to unconditioned attic spaces shall be sealed.	The insulation in any dropped ceiling/soffit shall be aligned with the air barrier.
Walls	The junction of the foundation and sill plate shall be sealed. The junction of the top plate and the top of exterior walls shall be sealed. Knee walls shall be sealed.	Cavities within corners and headers of frame walls see insulated by completely filling the cavity with a rial having a thermal resistance, <i>R</i> -value, of not less R-3 per inch. Exterior thermal envelope insulation for framed walls shall be installed in substantial contact continuous alignment with the air barrier.
Windows, skylights and doors	The space between framing and skylights, and the jambs of windows and doors, shall be sealed.	_
Rim joists	Rim joists shall include an exterior air barrier. ^b The junctions of the rim board to the sill plate and the rim board and the subfloor shall be air sealed.	Rim joists shall be insulated so that the insulation m tains permanent contact with the exterior rim board.
Floors, including cantilevered floors and floors above garages	The air barrier shall be installed at any exposed edge of insulation.	Floor framing cavity insulation shall be installed to maintain permanent contact with the underside of subfloor decking. Alternatively, floor framing cavity insulation shall be in contact with the top side of she ing, or continuous insulation installed on the unders of floor framing and extending from the bottom to top of all perimeter floor framing members.
Basement crawl space and slab foundations	Exposed earth in unvented crawl spaces shall be covered with a Class I vapor retarder/air barrier in accordance with Section R402.2.10. Penetrations through concrete foundation walls and slabs shall be air sealed. Class I vapor retarders shall not be used as an air barrier on below-grade walls and shall be installed in accordance with Section R702.7 of the <i>International Residential Code</i> .	Crawl space insulation, where provided instead of fl insulation, shall be installed in accordance with Section R402.2.10. Conditioned basement foundation wall insulation sh be installed in accordance with Section R402.2.8.1. Slab-on-grade floor insulation shall be installed in adance with Section R402.2.10.
Shafts, penetrations	Duct and flue shafts to exterior or unconditioned space shall be sealed. Utility penetrations of the air barrier shall be caulked, gasketed or otherwise sealed and shall allow for expansion, contraction of materials and mechanical vibration.	Insulation shall be fitted tightly around utilities pass through shafts and penetrations in the building thern envelope to maintain required <i>R</i> -value.
Narrow cavities	Narrow cavities of 1 inch or less that are not able to be insulated shall be air sealed.	Batts to be installed in narrow cavities shall be cut to or narrow cavities shall be filled with insulation that installation readily conforms to the available cavity space.
Garage separation	Air sealing shall be provided between the garage and conditioned spaces.	Insulated portions of the garage separation assembly shall be installed in accordance with Sections R303 R402.2.7.

(continued)

COMPONENT	AIR BARRIER CRITERIA	INSULATION INSTALLATION CRITERIA
Recessed lighting	Recessed light fixtures installed in the building thermal envelope shall be air sealed in accordance with Section R402.4.5.	Recessed light fixtures installed in the building therma envelope shall be airtight and IC rated, and shall be buried or surrounded with insulation.
Plumbing, wiring or other obstructions	All holes created by wiring, plumbing or other obstructions in the air barrier assembly shall be air sealed.	Insulation shall be installed to fill the available space and surround wiring, plumbing, or other obstructions, unless the required <i>R</i> -value can be met by installing insulation and air barrier systems completely to the exterior side of the obstructions.
Shower/tub on exte- rior wall	The air barrier installed at exterior walls adjacent to showers and tubs shall separate the wall from the shower or tub.	Exterior walls adjacent to showers and tubs shall be insulated.
Electrical/phone box on exterior walls	The air barrier shall be installed behind electrical and communication boxes. Alternatively, air-sealed boxes shall be installed.	_
HVAC register boots	HVAC supply and return register boots that penetrate building thermal envelope shall be sealed to the subfloor, wall covering or ceiling penetrated by the boot.	_
Concealed sprinklers	Where required to be sealed, concealed fire sprinklers shall only be sealed in a manner that is recommended by the manufacturer. Caulking or other adhesive sealants shall not be used to fill voids between fire sprinkler cover plates and walls or ceilings.	_

a. Inspection of log walls shall be in accordance with the provisions of ICC 400.b. Air barrier and insulation full enclosure is not required in unconditioned/ventilated attic spaces and at rim joists.

R403 SYSTEMS

ALL HYAC MECHANICAL SYSTEMS, WATER HEATERS, DUCTS, VENTS, PIPING, CONTROLS, POOL & SPA EQUIPMENT, SHALL MEET THE REQUIREMENTS OF SECTION R403.

R404 ELECTRICAL POWER & LIGHTING SYSTEMS
ALL POWER AND LIGHTING SYSTEMS SHALL MEET THE REQUIREMENTS OF SECTION R404.

R405 SIMULATED PERFORMANCE ALTERNATIVE (PERFORMANCE)

COMPLIANCE USING SIMULATED ENERGY PERFORMANCE ANALYSIS SHALL MEET THE

REQUIREMENTS IN SECTION R405. SUCH ANALYSIS SHALL INCLUDE HEATING, COOLING,

MECHANICAL VENTILATION AND SERVICE WATER HEATING ENERGY ONLY.

R405.2 MANDATORY REQUIREMENTS: COMPLIANCE WITH THIS SECTION REQUIRES THAT THE

MANDATORY PROVISIONS IDENTIFIED IN SEC. R401.2 BE MET. ALL SUPPLY & RETURN DUCTS

NOT COMPLETELY INSIDE THE BLD'G. THERMAL ENVELOPE SHALL BE INSULATED TO A

MINIMUM OF R-6.

R406.4 Energy Rating Index. The Energy Rating Index (ERI) shall be determined in accordance with RESNET/ICC 301 except for buildings covered by the *International Residential Code*, the ERI reference design ventilation rate shall be in accordance with Equation 4-2.

Ventilation rate, CEM = (0.01 × total square foot area of

Ventilation rate, CFM = $(0.01 \times \text{total square foot area of house}) + [7.5 \times (\text{number of bedrooms} + 1)]$

(Equation

Energy used to recharge or refuel a vehicle used for transportation on roads that are not on the building site shall not be included in the *ERI reference design* or the *rated design*. For compliance purposes, any reduction in energy use of the rated design associated with on-site renewable energy shall not exceed 5 percent of the total energy use. **R406.5 ERI-based compliance.** Compliance based on an

R406.5 ERI-based compliance. Compliance based on an ERI analysis requires that the *rated proposed design* and confirmed built dwelling be shown to have an ERI less than or equal to the appropriate value indicated in Table R406.5 when compared to the *ERI reference design*.

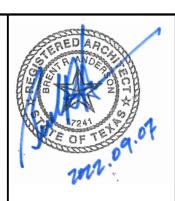
TABLE MAXIMUM ENER(R406.5 GY RATING INDEX	
CLIMATE ZONE	ENERGY RATING INDEX	
0-1	52	
2	52	
3	51	
4	54	
5	55	
6	54	
7	53	
8	53	

2021 INTERNATIONAL ENERGY CONSERVATION CODE (IECC) REQUIREMENTS

ALL RESIDENTIAL PROJECTS IN MUNICIPALITIES THAT HAVE ADOPTED THE 2021 IECC SHALL COMPLY WITH ONE OF THE FOLLOWING FROM CHAPTER 4 OF THE 2021 IECC:

1. SECTIONS R401 THROUGH R404. (PRESCRIPTIVE)
2. SECTION R405 (TOTAL BUILDING PERFORMANCE ANALYSIS) & THE
PROVISIONS OF SECTION R401 THROUGH R404 LABELED "MANDATORY"
3. AN ENERGY RATING INDEX (ERI) APPROACH IN SECTION R406 & THE
PROVISIONS OF SECTION R401 THROUGH R404 LABELED "MANDATORY", & SEC.
R403.5.3.

CONTRACTOR & ALL SUBCONTRACTORS/TRADES/SUPPLIERS SHOULD BE FAMILIAR WITH ALL THE IECC REQUIREMENTS APPLICABLE TO THEIR WORK OR PRODUCTS, AND INSURE COMPLIANCE WITH THE REQ'MTS. ONLY A FEW OF THE REQUIREMENTS/ SECTIONS/ TABLES ARE SHOWN ON THIS SHEET.



ALL CONSTRUCTION
SHALL CONFORM TO
ALL BUILDING
CODES REQUIRED
BY ALL AUTHORITIES
HAVING JURISDICTION
OVER THE PROJECT.

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RESIDENTIAL & COMMERCIAL ARCHITECTURE, INTERIORS, PLANNING

16719 HUEBNER ROAD BLDG. 3 SUITE 301 S A N A N T O N I O TE X A S 78 2 4 8 210 408 7553 VOICE 210 408 7543 F A X W W W M SA O F SA COM

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121 IECC ENERGY CODE