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VENTILATION SHALL COMPLY WITH 2012 IRC. SEE ATTIC VENTILATION CALCULATION ON FRAMING PLAN FOR APPLICABLE VENTILATION CALCULATION.

WHERE THIN COAT STUCCO IS USED AT ATTIC AREAS, A THERMAL BARRIER BEHIND THE FOAM OR IN LIEU OF THE FOAM SHALL BE USED - PER 2012 I.R.C. PROVIDE CORROSION RESISTANT METAL MESH @ EXTERIOR VENTS w/ MESH OPENINGS LESS THAN 1/4"

#### LOCATION FOR REQUIRED FIREBLOCKING

CONCEALED SPACES OF STUD WALLS AT CEILING LEVEL, FURRED SPACES AND SOFFITS @ 10' LEVELS BOTH VERT, & HORIZ, ALL INTERCONNECTIONS BETWEEN CONCEALED VERT, & HORIZ, SPACES SUCH AS OCCUR @ DROP CLGS, SOFFITS, & COVE CLGS.

OPENINGS AROUND PIPES, DUCTS, VENTS AND CHIMNEYS W/ NON- COMBUSTIBLE MATERIALS SUCH AS UNFACED FIBERGLASS INSULATION.

#### GRADING AND DRAINAGE

FINISH GRADE SHALL SLOPE 5% FOR A DISTANCE OF 10'-0" TO APPROVED WATER DISPOSAL AREA.

#### AREA SEPARATIONS

GARAGE WALLS & CLG. TO HAVE A MIN.. OF 5/8" TYPE 'X' GYP. BOARD & SHALL COMPLY 2012 IRC

#### **EXTERIOR MATERIAL** STUCCO: USE ICC APPROVED FIBER REINFORCED STUCCO SYSTEM WITH 1" POLYSTYRENE INSUL. BOARD.

AIS @ ATTIC AREAS. ULTRAKOTE STUCCO SYSTEM - ESR-1471

WESTERN ONE COAT STUCCO SYSTEM - ESR-1607 W/ APPR. WEATHER RESISTIVE BARRIER.

GYPSUM BOARD BOARD USED ON EXTERIOR SOFFITS MUST BE APPROVED EXTERIOR TYPE REFER TO CURRENT IRC. EXTERIOR SOFFIT BOARD MUST BE SPECIFIED AS EXTERIOR GRADE - ESR-1338

#### STONE VENEER: USE ICC APPROVED STONE VENEER AND INSTALL PER ESR REPORTS AND MANUFACTURERS SPECIFICATIONS. SPECIAL INSPECTION AS REQUIRED PER MUNICIPALITY.

 MODERN STONE - ESR-1956 • EL DORADO STONE - ER-3568

CONCRETE ROOF TILE: (EAGLE TILE - ESR-4660) TO BE INSTALLED PER MFR. SPECIFICATIONS

#### **POOL BARRIER NOTE:**

ALL DOORS & WINDOWS ACCESSING THE POOL AREA MUST COMPLY WITH IRC SEC. AG 105.1 POOL BARRIERS & IRC SEC. R308.4 #9, GLAZING IN HAZARDOUS LOCATIONS. A POOL FENCE IS AN APPROVED ALTERNATIVE.

GLASS BLOCK PANELS SHALL NOT BE USED AS LOAD BEARING MEMBERS.

<b>FASTENER</b>	SCHEDULE FOR STRU	JCTURAL N	MEMBERS
DESCRIPTION OF BUILDI	ING ELEMENTS	NUMBER & TYPE OF FASTENER (A,B,C,D)	SPACING OF FASTENERS
JOIST TO SILL OR GIRDER, TOE NAIL		3-8d	
1"X6" SUBFLOOR OR LESS TO EACH J	JOIST, FACE NAIL	2-8d	
	DI IND 0 FACE MAII	2 STAPLES, 1 3/4"	•
2" SUBFLOOR TO JOIST OR GIRDER, E SOLE PLATE TO JOIST OR BLOCKING		2-16d 16d	16" o.c.
TOP OR SOLE PLATE TO STUD, END N		2-16d	10 0.0
STUD TO SOLE PLATE, TOE NAIL		3-8d OR 2-16d	
DOUBLE STUDS, FACE NAIL		10d	24" o.c.
DOUBLE TOP PLATES, FACE NAIL SOLE PLATE TO JOIST OR BLOCKING	AT DDACED WALL DANIELS	10d 3-16d	24" o.c. 16" o.c.
DOUBLE TOP PLATES, MIN. 48 INCH C		8-16d	16 0.0
FACE NAIL IN LAPPED AREA	THE CONTROL	-	
BLOCK <b>IN</b> G BETWEEN JOISTS OR RAF	TERS TO TOP PLATE, TOE NAIL	3-8d	·
RIM JOIST TO TOP PLATE, TOE NAIL	ITEROCOTIONO EAGE MAII	8d	6" o.c.
TOP PLATES, LAPS AT CORNERS & IN BUILT-UP HEADER, TWO PIECES w/ 1/		2-10d 16d	16" o.c. ALONG EA. EDGE 16" o.c. ALONG EA. EDGE
CONTINUED HEADER, TWO PIECES	2 SPACEN	16d	10 U.C. ALONG EA. EDGE
CEILING JOISTS TO PLATE, TOE NAIL		3-8d	·
CONTINUOUS HEADER TO STUD, TOE		4-8d	
CEILING JOIST, LAPS OVER PARTITIO		3-10d	
CEILING JOIST TO PARALLEL RAFTER RAFTER TO PLATE, TOE NAIL	(S, FACE NAIL	3-10d 2-16d	
NAFTER TO PLATE, TOE MAIL 1" BRACE TO EACH STUD & PLATE, FA	ACE NAIL	2-16u 2-8d	
Politica To alternation of the artarita, in	TO THE THE	2 STAPLES, 1 3/4	
1"x6" SHEATHING TO EACH BEARING,	, FACE NAIL	2-8d	•
ALL OF OTHER THING TO EACH BEADING	FAOFAMI	2 STAPLES, 1 3/4	
1"x8" SHEATHING TO EACH BEARING,	, FACE NAIL	2-8d 3 STAPLES, 1 3/4	
WIDER THAN 1"x8" SHEATHING TO EA	ACH BEARING, FACE NAIL	3-8d	
	,	4 STAPLES, 1 3/4	
BUILT-UP CORNER STUDS		10d	24" o.c.
BUILT-UP GIRDERS & BEAMS, 2 INCH	LUMBER LAYERS	10d	NAIL EA. LAYER AS FOLLOWS: 32" o.c. @ TOP & BOTTOM & STAGGERED. TWO NAILS @
2" PLANKS		2-16d	ENDS & AT EA. SPLICE AT EACH BEARING
ROOF RAFTERS TO RIDGE, VALLEY O	)R HIP RAFTERS	2-100	AT EACH BEARING
TOE NAIL		4-16d	
FACE NAIL		3-16d	•
RAFTER TIES TO RAFTERS, FACE		3-8d	
WOOD STRUCTURAL PANELS AND PARTICLEBOARD WALL S	SUBFLOOR, ROOF AND WALL SHEATHING TO SHEATHING TO FRAMING	FRAMING,	·
5/16 - 1/2	6d COMMON NAIL (SUBFLOOR, WALL)	6	12 <sup>G</sup>
	8d COMMON NAIL (ROOF)		
19/32 - 1	8d COMMON NAIL (ROOF) F  8d COMMON NAIL	6	12 <sup>G</sup>
19/32 - 1	8d COMMON NAIL (ROOF)		
19/32 - 1	8d COMMON NAIL (ROOF)  8d COMMON NAIL  10d COMMON NAIL OR	6	12 <sup>G</sup>
19/32 - 1 1 1/8 - 1 1/4	8d COMMON NAIL (ROOF)  8d COMMON NAIL  10d COMMON NAIL OR	6 6	12 <sup>G</sup> 12 <sup>G</sup> 12 <sup>G</sup>
19/32 - 1 1 1/8 - 1 1/4 DESCRIPTION OF BUILDING	8d COMMON NAIL (ROOF) 8d COMMON NAIL 10d COMMON NAIL 8d DEFORMED NAIL	6 6 6	12 G 12 G 12 G CING OF FASTENERS
19/32 - 1 1 1/8 - 1 1/4 DESCRIPTION OF BUILDING MATERIALS	8d COMMON NAIL (ROOF)  8d COMMON NAIL  10d COMMON NAIL  10d COMMON NAIL  DESCRIPTION OF FASTENER  B,C,D,E	6 6	12 <sup>G</sup> 12 <sup>G</sup> 12 <sup>G</sup>
19/32 - 1 1 1/8 - 1 1/4 DESCRIPTION OF BUILDING MATERIALS OTHER WALL SHEATHING	8d COMMON NAIL (ROOF) 8d COMMON NAIL 10d COMMON NAIL 10d COMMON NAIL 0R 8d DEFORMED NAIL  DESCRIPTION OF FASTENER  B,C,D,E	6 6 6	12 G 12 G 12 G 12 G
19/32 - 1 11/8 - 1 1/4  DESCRIPTION OF BUILDING MATERIALS  OTHER WALL SHEATHING 1/2" REGULAR CELLULOSE	8d COMMON NAIL (ROOF)  8d COMMON NAIL  10d COMMON NAIL  10d COMMON NAIL  DEFORMED NAIL  DESCRIPTION OF FASTENER  B,C,D,E  H  1 1/2" GALVANIZED ROOFING NAIL 6d	6 6 6	12 G 12 G 12 G CING OF FASTENERS
19/32 - 1 11/8 - 11/4  DESCRIPTION OF BUILDING MATERIALS  OTHER WALL SHEATHING 1/2" REGULAR CELLULOSE FIBERBOARD SHEATHING	8d COMMON NAIL (ROOF)  8d COMMON NAIL  10d COMMON NAIL  10d COMMON NAIL  DESCRIPTION OF FASTENER  B.C.D.E  H  1 1/2" GALVANIZED ROOFING NAIL 6d COMMON NAIL STAPLE 16ga, 1 1/2" LONG	6   6	LCING OF FASTENERS  INTERMEDIATE SUPPORTS C. FINCHES  6
19/32 - 1 11/8 - 1 1/4  DESCRIPTION OF BUILDING MATERIALS  OTHER WALL SHEATHING 1/2" REGULAR CELLULOSE FIBERBOARD SHEATHING 1/2" STRUCTURAL CELLULOSE	8d COMMON NAIL (ROOF)  8d COMMON NAIL  10d COMMON NAIL  10d COMMON NAIL  DESCRIPTION OF FASTENER  B.C.D.E  H  1 1/2" GALVANIZED ROOFING NAIL 6d COMMON NAIL STAPLE 16ga, 1 1/2" LONG 1 1/2" GALVANIZED ROOFING NAIL 8d	6 6 . SPA EDGES (INCHES) 1	IZ G 12
19/32 - 1 11/8 - 1 1/4  DESCRIPTION OF BUILDING MATERIALS  OTHER WALL SHEATHING 1/2" REGULAR CELLULOSE FIBERBOARD SHEATHING 1/2" STRUCTURAL CELLULOSE FIBERBOARD SHEATHING	8d COMMON NAIL (ROOF)  8d COMMON NAIL  10d COMMON NAIL  10d COMMON NAIL  10d COMMON NAIL OR  8d DEFORMED NAIL  DESCRIPTION OF FASTENER  B.C.D.E  H  1 1/2" GALVANIZED ROOFING NAIL 6d  COMMON NAIL STAPLE 16ga, 1 1/2" LONG  1 1/2" GALVANIZED ROOFING NAIL 8d  COMMON NAIL STAPLE 16ga, 1 1/2" LONG	6   6	I2 G 12 G 1
19/32 - 1 11/8 - 1 1/4  DESCRIPTION OF BUILDING MATERIALS  OTHER WALL SHEATHING 1/2" REGULAR CELLULOSE FIBERBOARD SHEATHING 1/2" STRUCTURAL CELLULOSE FIBERBOARD SHEATHING 25/32" STRUCTURAL CELLULOSE FIBERBOARD SHEATHING	8d COMMON NAIL (ROOF) 8d COMMON NAIL 10d COMMON NAIL 10d COMMON NAIL OR 8d DEFORMED NAIL  DESCRIPTION OF FASTENER  H 1 1/2" GALVANIZED ROOFING NAIL 6d COMMON NAIL STAPLE 16ga, 1 1/2" LONG 1 1/2" GALVANIZED ROOFING NAIL 8d COMMON NAIL STAPLE 16ga, 1 1/2" LONG 1 1/2" GALVANIZED ROOFING NAIL 6d COMMON NAIL STAPLE 16ga, 1 1/2" LONG	6   6	LCING OF FASTENERS  INTERMEDIATE SUPPORTS C. FINCHES  6
19/32 - 1 11/8 - 1 1/4  DESCRIPTION OF BUILDING MATERIALS  OTHER WALL SHEATHING 1/2" REGULAR CELLULOSE FIBERBOARD SHEATHING 1/2" STRUCTURAL CELLULOSE FIBERBOARD SHEATHING 25/32" STRUCTURAL CELLULOSE FIBERBOARD SHEATHING	8d COMMON NAIL (ROOF) 8d COMMON NAIL 10d COMMON NAIL 10d COMMON NAIL OR 8d DEFORMED NAIL  DESCRIPTION OF FASTENER  H  1 1/2" GALVANIZED ROOFING NAIL 6d COMMON NAIL STAPLE 16ga, 1 1/2" LONG 1 1/2" GALVANIZED ROOFING NAIL 8d COMMON NAIL STAPLE 16ga, 1 1/2" LONG 1 1/2" GALVANIZED ROOFING NAIL 6d COMMON NAIL STAPLE 16ga, 1 1/2" LONG 1 1/2" GALVANIZED ROOFING NAIL 6d COMMON NAIL STAPLE 16ga, 1 1/2" LONG 1 1/2" GALVANIZED ROOFING NAIL; 6d	6   6	I2 G 12 G 1
19/32 - 1 11/8 - 1 1/4  DESCRIPTION OF BUILDING MATERIALS  OTHER WALL SHEATHING 1/2" REGULAR CELLULOSE FIBERBOARD SHEATHING 1/2" STRUCTURAL CELLULOSE FIBERBOARD SHEATHING 25/32" STRUCTURAL CELLULOSE FIBERBOARD SHEATHING	8d COMMON NAIL (ROOF) 8d COMMON NAIL 10d COMMON NAIL 10d COMMON NAIL OR 8d DEFORMED NAIL  DESCRIPTION OF FASTENER  1 1/2" GALVANIZED ROOFING NAIL 6d COMMON NAIL STAPLE 16ga, 1 1/2" LONG 1 1/2" GALVANIZED ROOFING NAIL 8d COMMON NAIL STAPLE 16ga, 1 1/2" LONG 1 1/2" GALVANIZED ROOFING NAIL 6d COMMON NAIL STAPLE 16ga, 1 1/2" LONG 1 1/2" GALVANIZED ROOFING NAIL 6d COMMON NAIL STAPLE 16ga, 1 1/2" LONG 1 1/2" GALVANIZED ROOFING NAIL; 6d COMMON NAIL; STAPLE GALV., 1 1/2" LONG	SPA EDGES (INCHES) <sup>1</sup> 3  3  3  3  .	CING OF FASTENERS INTERMEDIATE SUPPORTS C. FINCHES  6 6 6 6 6
19/32 - 1 11/8 - 11/4  DESCRIPTION OF BUILDING MATERIALS  OTHER WALL SHEATHING 1/2" REGULAR CELLULOSE FIBERBOARD SHEATHING 1/2" STRUCTURAL CELLULOSE FIBERBOARD SHEATHING 25/32" STRUCTURAL CELLULOSE FIBERBOARD SHEATHING 1/2" GYPSUM SHEATHING 1/2" GYPSUM SHEATHING	8d COMMON NAIL (ROOF) 8d COMMON NAIL 10d COMMON NAIL 10d COMMON NAIL 10d COMMON NAIL OR 8d DEFORMED NAIL  DESCRIPTION OF FASTENER  H  1 1/2" GALVANIZED ROOFING NAIL 6d COMMON NAIL STAPLE 16ga, 1 1/2" LONG 1 1/2" GALVANIZED ROOFING NAIL 8d COMMON NAIL STAPLE 16ga, 1 1/2" LONG 1 1/2" GALVANIZED ROOFING NAIL 6d COMMON NAIL STAPLE 16ga, 1 1/2" LONG 1 1/2" GALVANIZED ROOFING NAIL; 6d COMMON NAIL; STAPLE 6da, 1 1/2" LONG 1 1/2" GALVANIZED ROOFING NAIL; 6d COMMON NAIL; STAPLE GALV., 1 1/2" LONG 1 5/8" SCREWS, TYPE "W' OR 'S'	SPA EDGES (INCHES) <sup>1</sup> 3 3 4	IZ G 12
19/32 - 1 11/8 - 11/4  DESCRIPTION OF BUILDING MATERIALS  OTHER WALL SHEATHING 1/2" REGULAR CELLULOSE FIBERBOARD SHEATHING 1/2" STRUCTURAL CELLULOSE FIBERBOARD SHEATHING 25/32" STRUCTURAL CELLULOSE FIBERBOARD SHEATHING 1/2" GYPSUM SHEATHING 1/2" GYPSUM SHEATHING	8d COMMON NAIL (ROOF) 8d COMMON NAIL 10d COMMON NAIL 10d COMMON NAIL 10d COMMON NAIL 11/2" GALVANIZED ROOFING NAIL 6d COMMON NAIL STAPLE 16ga, 1 1/2" LONG 1 1/2" GALVANIZED ROOFING NAIL 8d COMMON NAIL STAPLE 16ga, 1 1/2" LONG 1 1/2" GALVANIZED ROOFING NAIL 6d COMMON NAIL STAPLE 16ga, 1 1/2" LONG 1 1/2" GALVANIZED ROOFING NAIL; 6d COMMON NAIL STAPLE 16ga, 1 1/2" LONG 1 1/2" GALVANIZED ROOFING NAIL; 6d COMMON NAIL; STAPLE GALV., 1 1/2" LONG 1 5/8" SCREWS, TYPE "W' OR 'S' 1 3/4" GALVANIZED ROOFING NAIL; 8d	SPA EDGES (INCHES) <sup>1</sup> 3  3  3  3  .	CING OF FASTENERS INTERMEDIATE SUPPORTS C. FINCHES  6 6 6 6 6
19/32 - 1 11/8 - 1 1/4  DESCRIPTION OF BUILDING MATERIALS  OTHER WALL SHEATHING 1/2" REGULAR CELLULOSE FIBERBOARD SHEATHING 1/2" STRUCTURAL CELLULOSE FIBERBOARD SHEATHING 25/32" STRUCTURAL CELLULOSE FIBERBOARD SHEATHING 1/2" GYPSUM SHEATHING 1.	8d COMMON NAIL (ROOF) 8d COMMON NAIL 10d COMMON NAIL 10d COMMON NAIL 10d COMMON NAIL OR 8d DEFORMED NAIL  DESCRIPTION OF FASTENER  H  1 1/2" GALVANIZED ROOFING NAIL 6d COMMON NAIL STAPLE 16ga, 1 1/2" LONG 1 1/2" GALVANIZED ROOFING NAIL 8d COMMON NAIL STAPLE 16ga, 1 1/2" LONG 1 1/2" GALVANIZED ROOFING NAIL 6d COMMON NAIL STAPLE 16ga, 1 1/2" LONG 1 1/2" GALVANIZED ROOFING NAIL; 6d COMMON NAIL; STAPLE 6da, 1 1/2" LONG 1 1/2" GALVANIZED ROOFING NAIL; 6d COMMON NAIL; STAPLE GALV., 1 1/2" LONG 1 5/8" SCREWS, TYPE "W' OR 'S'	SPA EDGES (INCHES) <sup>1</sup> 3 3 4	IZ G 12
19/32 - 1 11/8 - 1 1/4  DESCRIPTION OF BUILDING MATERIALS  OTHER WALL SHEATHING 1/2" REGULAR CELLULOSE FIBERBOARD SHEATHING 1/2" STRUCTURAL CELLULOSE FIBERBOARD SHEATHING 25/32" STRUCTURAL CELLULOSE FIBERBOARD SHEATHING 1/2" GYPSUM SHEATHING 5/8" GYPSUM SHEATHING	8d COMMON NAIL (ROOF) 8d COMMON NAIL 10d COMMON NAIL 10d COMMON NAIL 10d COMMON NAIL 10d COMMON NAIL 11/2" GALVANIZED ROOFING NAIL 6d COMMON NAIL STAPLE 16ga, 1 1/2" LONG 1 1/2" GALVANIZED ROOFING NAIL 8d COMMON NAIL STAPLE 16ga, 1 1/2" LONG 1 1/2" GALVANIZED ROOFING NAIL 6d COMMON NAIL STAPLE 16ga, 1 1/2" LONG 1 1/2" GALVANIZED ROOFING NAIL 6d COMMON NAIL STAPLE 16ga, 1 1/2" LONG 1 1/2" GALVANIZED ROOFING NAIL; 6d COMMON NAIL; STAPLE GALV., 1 1/2" LONG 1 5/8" SCREWS, TYPE 'W' OR 'S' 1 3/4" GALVANIZED ROOFING NAIL; 8d COMMON NAIL; STAPLE GALV., 1 5/8" LONG 1 5/8" SCREWS, TYPE 'W' OR 'S'	SPA EDGES (INCHES) <sup>1</sup> 3 3 4 4	IZ G 12 G 12 G 12 G 12 G  ICING OF FASTENERS  INTERMEDIATE SUPPORTS C. FINCHES  6 6 6 6 6 8 8 8
19/32 - 1 11/8 - 1 1/4  DESCRIPTION OF BUILDING MATERIALS  OTHER WALL SHEATHING 1/2" REGULAR CELLULOSE FIBERBOARD SHEATHING 1/2" STRUCTURAL CELLULOSE FIBERBOARD SHEATHING 25/32" STRUCTURAL CELLULOSE FIBERBOARD SHEATHING 1/2" GYPSUM SHEATHING 5/8" GYPSUM SHEATHING  WOOD STRUCTURAL PANELS	8d COMMON NAIL (ROOF) 8d COMMON NAIL 10d COMMON NAIL 10d COMMON NAIL 10d COMMON NAIL OR 8d DEFORMED NAIL  DESCRIPTION OF FASTENER  1 1/2" GALVANIZED ROOFING NAIL 6d COMMON NAIL STAPLE 16ga, 1 1/2" LONG 1 1/2" GALVANIZED ROOFING NAIL 8d COMMON NAIL STAPLE 16ga, 1 1/2" LONG 1 1/2" GALVANIZED ROOFING NAIL 6d COMMON NAIL STAPLE 16ga, 1 1/2" LONG 1 1/2" GALVANIZED ROOFING NAIL; 6d COMMON NAIL; STAPLE 6da, 1 1/2" LONG 1 1/2" GALVANIZED ROOFING NAIL; 6d COMMON NAIL; STAPLE GALV., 1 1/2" LONG 1 5/8" SCREWS, TYPE 'W' OR 'S' 1 3/4" GALVANIZED ROOFING NAIL; 8d COMMON NAIL; STAPLE GALV., 1 5/8" LONG 1 5/8" SCREWS, TYPE 'W' OR 'S'  COMBINATION SUBFLOOR UNDERLAYMENT TO	SPA EDGES (INCHES) 1  3 3 3 4 4 0 FRAMING	CING OF FASTENERS  INTERMEDIATE SUPPORTS C. TINCHES  6 6 6 6 6 8 8
19/32 - 1 11/8 - 1 1/4  DESCRIPTION OF BUILDING MATERIALS  OTHER WALL SHEATHING 1/2" REGULAR CELLULOSE FIBERBOARD SHEATHING 1/2" STRUCTURAL CELLULOSE FIBERBOARD SHEATHING 25/32" STRUCTURAL CELLULOSE FIBERBOARD SHEATHING 1/2" GYPSUM SHEATHING 5/8" GYPSUM SHEATHING	8d COMMON NAIL (ROOF) 8d COMMON NAIL 10d COMMON NAIL 10d COMMON NAIL 10d COMMON NAIL 10d COMMON NAIL OR 8d DEFORMED NAIL  DESCRIPTION OF FASTENER  H  1 1/2" GALVANIZED ROOFING NAIL 6d COMMON NAIL STAPLE 16ga, 1 1/2" LONG 1 1/2" GALVANIZED ROOFING NAIL 8d COMMON NAIL STAPLE 16ga, 1 1/2" LONG 1 1/2" GALVANIZED ROOFING NAIL 6d COMMON NAIL STAPLE 16ga, 1 1/2" LONG 1 1/2" GALVANIZED ROOFING NAIL; 6d COMMON NAIL; STAPLE GALV., 1 1/2" LONG 1 5/8" SCREWS, TYPE 'W' OR 'S' 1 3/4" GALVANIZED ROOFING NAIL; 8d COMMON NAIL; STAPLE GALV., 1 5/8" LONG 1 5/8" SCREWS, TYPE 'W' OR 'S'  COMBINATION SUBFLOOR UNDERLAYMENT TO	SPA EDGES (INCHES) <sup>1</sup> 3 3 4 4	IZ G 12 G 12 G 12 G 12 G  ICING OF FASTENERS  INTERMEDIATE SUPPORTS C. FINCHES  6 6 6 6 6 8 8 8
MATERIALS  OTHER WALL SHEATHING  1/2" REGULAR CELLULOSE FIBERBOARD SHEATHING 1/2" STRUCTURAL CELLULOSE FIBERBOARD SHEATHING 25/32" STRUCTURAL CELLULOSE FIBERBOARD SHEATHING 1/2" GYPSUM SHEATHING 5/8" GYPSUM SHEATHING	8d COMMON NAIL (ROOF) 8d COMMON NAIL 10d COMMON NAIL 10d COMMON NAIL 10d COMMON NAIL OR 8d DEFORMED NAIL  DESCRIPTION OF FASTENER  1 1/2" GALVANIZED ROOFING NAIL 6d COMMON NAIL STAPLE 16ga, 1 1/2" LONG 1 1/2" GALVANIZED ROOFING NAIL 8d COMMON NAIL STAPLE 16ga, 1 1/2" LONG 1 1/2" GALVANIZED ROOFING NAIL 6d COMMON NAIL STAPLE 16ga, 1 1/2" LONG 1 1/2" GALVANIZED ROOFING NAIL; 6d COMMON NAIL; STAPLE 6da, 1 1/2" LONG 1 1/2" GALVANIZED ROOFING NAIL; 6d COMMON NAIL; STAPLE GALV., 1 1/2" LONG 1 5/8" SCREWS, TYPE 'W' OR 'S' 1 3/4" GALVANIZED ROOFING NAIL; 8d COMMON NAIL; STAPLE GALV., 1 5/8" LONG 1 5/8" SCREWS, TYPE 'W' OR 'S'  COMBINATION SUBFLOOR UNDERLAYMENT TO	SPA EDGES (INCHES)   3	CING OF FASTENERS INTERMEDIATE SUPPORTS C. FINCHES  6  6  6  6  8  8  .  8
19/32 - 1 11/8 - 1 1/4  DESCRIPTION OF BUILDING MATERIALS  OTHER WALL SHEATHING 1/2" REGULAR CELLULOSE FIBERBOARD SHEATHING 1/2" STRUCTURAL CELLULOSE FIBERBOARD SHEATHING 25/32" STRUCTURAL CELLULOSE FIBERBOARD SHEATHING 1/2" GYPSUM SHEATHING : 5/8" GYPSUM SHEATHING : WOOD STRUCTURAL PANELS 3/4" AND LESS	8d COMMON NAIL (ROOF) 8d COMMON NAIL 10d COMMON NAIL 10d COMMON NAIL 10d COMMON NAIL 10d COMMON NAIL DESCRIPTION OF FASTENER  H  1 1/2" GALVANIZED ROOFING NAIL 6d COMMON NAIL STAPLE 16ga, 1 1/2" LONG 1 1/2" GALVANIZED ROOFING NAIL 8d COMMON NAIL STAPLE 16ga, 1 1/2" LONG 1 1/2" GALVANIZED ROOFING NAIL 6d COMMON NAIL STAPLE 16ga, 1 1/2" LONG 1 1/2" GALVANIZED ROOFING NAIL; 6d COMMON NAIL; STAPLE 6daLV., 1 1/2" LONG 1 1/2" GALVANIZED ROOFING NAIL; 8d COMMON NAIL; STAPLE GALV., 1 5/8" LONG 1 5/8" SCREWS, TYPE "W' OR 'S' 1 3/4" GALVANIZED ROOFING NAIL; 8d COMMON NAIL; STAPLE GALV., 1 5/8" LONG 1 5/8" SCREWS, TYPE "W' OR 'S'  COMBINATION SUBFLOOR UNDERLAYMENT TO 6d DEFORMED NAIL OR 8d COMMON NAIL	SPA EDGES (INCHES) 1  3 3 3 4 4 0 FRAMING	CING OF FASTENERS INTERMEDIATE SUPPORTS C. FINCHES  6 6 6 6 6 8 8

### FOR SI: 1 INCH = 25.4 MM, 1 FOOT = 304.8 MM, 1 MILE PER HOUR = 1.609 KM/H

- A. ALL NAILS ARE SMOOTH-COMMON, BOX OR DEFORMED SHANKS EXCEPT WHERE OTHERWISE STATED
- STAPLES ARE 16 GAGE WIRE AND HAVE A MIN., 7/16 INCH ON DIAMETER CROWN WIDTH. NAILS SHALL BE SPACED AT NOT MORE THAN 6 INCHES O.C. AT ALL SUPPORTS WHERE SPANS ARE 48" OR GREATER
- 4-FOOT-BY-8-FOOT OR 4-FOOT-BY-9-FOOT PANELS SHALL BE APPLIED VERTICALLY SPACING OF FASTENERS NOT INCLUDED IN THIS TABLE SHALL BE BASED ON TABLE R602.3(1
- FOR REGIONS HAVING BASIC WIND SPEED OF 110 MPH OR GREATER, 8d DEFORMED NAILS SHALL BE USED FOR ATTACHING PLYWOOD AND WOOD STRUCTURAL PANEL ROOF SHEATHING TO FRAMING WITHIN MINIMUM 48-INCH DISTANCE FROM GABLE END WALLS, IF MEAN ROOF HEIGHT IS MORE THAN 25-FEET, UP TO 35-FEET MAXIMUM.
- CENTER FOR MINIMUM 48-INCH DISTANCE FROM RIDGES, EAVES AND GABLE END WALLS: AND 4-INCHES ON CENTER TO GABLE H. GYPSUM SHEATHING SHALL CONFORM TO ASTM C 79 AND SHALL BE INSTALLED IN ACCORDANCE WITH GA 253. FIBERBOARD

FOR REGIONS HAVING BASIC WIND SPEED OF 100 MPH OR LESS, NAILS FOR ATTACHING WOOD STRUCTURAL PANEL ROOF

SHEATHING TO GABLE END WALL FRAMING SHALL BE SPACED 6-INCHES ON CENTER. WHEN BASIC WIND SPEED IS GREATER

THAN 100 MPH, NAILS FOR ATTACHING PANEL ROOF SHEATHING TO INTERMEDIATE SUPPORTS SHALL BE SPACED 6-INCHES ON

SHEATHING SHALL CONFORM TO EITHER AHA 194.1 OR ASTM C 208. SPACING OF FASTENERS ON FLOOR SHEATHING PANEL EDGES APPLIES TO PANEL EDGES SUPPORTED BY FRAMING MEMBERS AND AT ALL FLOOR PERIMETERS ONLY. SPACING OF FASTENERS ON ROOF SHEATHING PANEL EDGES. APPLIES TO PANEL EDGES SUPPORTED BY FRAMING MEMBERS AND AT ALL ROOF PLANE PERIMETERS. BLOCKING OF ROOF OR FLOOR SHEATHING PANEL EDGES PERPENDICULAR TO THE FRAMING MEMBERS SHALL NOT BE REQUIRED. EXCEPT AT INTERSECTION OF ADJACENT ROOF PLANES. FLOOR AND ROOF PERIMETER SHALL BE SUPPORTED BY FRAMING MEMBERS OR SOLID

## GENERAL SPECIFICATIONS

#### INSULATION:

MIN.. INSULATION SHALL BE PROVIDED ADJACENT TO HABITABLE AREAS AS FOLLOWS:

R-38 @ CEILING R-19 @ 6" EXTERIOR FRAME WALLS (OVERALL) R-13 @ 4" EXTERIOR FRAME WALLS (OVERALL)

EXPANSIVE FOAM WITH A RATED VALUE HIGHER THAN THE MINIMUM REQUIREMENTS IS ACCEPTABLE PER OWNER REQUEST. INSTALL PER MANUFACTURERS SPECIFICATIONS.

BATT INSULATION SHALL BE INSTALLED SO THAT NO PILLOWING OCCURS AND SO THAT ALL SIX SIDES OF

BATT ARE TOUCHING A MEMBRANE PER MANUFACTURERS SPECIFICATIONS. INSULATION TO BE INSTALLED OVER ALL VOIDS, SOFFITS AND ATTIC ACCESS HATCHES WHEN INSTALLED IN

A VENTED ATTIC.

WHEN APPLYING A WATER BASED TEXTURE MATERIAL, THE MIN.. GYP. BD. THICKNESS SHALL BE INCREASED FROM  $\frac{3}{8}$ " TO  $\frac{1}{2}$ " FOR 16" O.C. FRAMING & FROM  $\frac{1}{2}$ " TO  $\frac{5}{8}$ " FOR 24" O.C. FRAMING OR  $\frac{1}{2}$ " SAG RESISTANT CLG. GYP. BD.

5/8" TYPE "X" AT GARAGE CEILING AND BEARING WALLS AND WALLS COMMON TO HOUSE, UNDER STAIRS AND IN STORAGE AREAS.

GYPSUM WALLBOARD INSTALLED AS BACKING IN SHOWERS SHALL BE TYPE W.A. IDENTIFIED AND REFERRED TO AS "GREEN BOARD" ICC #1046 (UP TO 7'-0" ABOVE DRAIN)

ALL DOORS TO BE A MIN. OF 6'-8" HIGH, 1-3/8" HOLLOW CORE AT INTERIOR, 1-3/4" SOLID CORE AT EXTERIOR, UNLESS OTHERWISE NOTE. SLIDING GLASS DOORS SHALL HAVE TEMPERED GLASS.

CEILINGS AT KITCHEN AND BATHS SHALL BE TAPED, TEXTURED AND PAINTED SEMI-GLOSS. ALL OTHERS SHALL BE TAPED, TEXTURED AND PAINTED SATIN. ALL INTERIOR DOORS AND TRIM SHALL BE PAINTED SEMI-GLOSS.

#### GLASS BLOCK

GLASS BLOCK PANELS SHALL HAVE A MINIMUM 3" THICKNESS AT THE MORTAR JOINT.

MORTARED SURFACES OF BLOCKS SHALL BE TREATED FOR MORTAR BONDING. GLASS BLOCK SHALL BE LAID IN TYPE N MORTAR, MORTAR SHALL HAVE 750 P.S.I. MINIMUM 28 DAY

BOTH VERTICAL AND HORIZONTAL MORTAR JOINTS SHALL BE AT EAST 1/4" AND NOT MORE THAN 3/8" THICK

GLASS BLOCK PANELS SHALL HAVE JOINT REINFORCEMENT SPACED NOT MORE THAN 16" ON CENTER AND LOCATED IN THE MORTAR BED JOINT EXTENDING THE ENTIRE LENGTH OF THE PANEL. THE REINFORCEMENT SHALL ALSO BE PLACED IN THE JOINTS IMMEDIATELY BELOW AND ABOVE ANY OPENINGS IN THE PANEL. JOINT REINFORCEMENT SHALL BE GALVANIZED IN ACCORDANCE WITH 2000 I.R.C. STANDARDS

EXTERIOR GLASS BLOCK PANELS SHALL BE PROVIDED WITH MINIMUM 3/8" EXPANSION JOINTS AT THE SIDES AND TOP. EXPANSION JOINTS SHALL BE ENTIRELY FREE OF MORTAR AND SHALL BE FILLED WITH RESILIENT MATERIAL.

#### WATER RESISTANT APPLICATIONS

AND SHALL BE COMPLETELY FILLED.

WALLS COMMON TO SHOWER, TUBS, WASHER, AND LAV. SINKS SHALL BE FINISHED w/ M.R. GYP. BOARD.

#### **MECHANICAL**

AIR HANDLER SHALL BE ATTIC MOUNTED & SHALL INCLUDE:

- A. PLYWOOD PLATFORM FOR UNIT w/ CORE CLEARANCES B. LIGHT SWITCHABLE @ UNIT \$ 110v OUTLET
- C. 2 CONDENSER LINES D. CATWALK TO UNIT NOT TO EXCEED 20'-0" IN LENGTH

CONDENSER NOT TO BE LOCATED IN REQ. 5' SIDE YARD

UNITS OVER LIVABLE AREA TO RECEIVE EXTERNAL COND. DRAIN PAN

3/4"° COND. DRAIN (FROM EA. PAN) w/ P-TRAP & C.O. TO GRADE @ +6

MECHANICAL EQUIPMENT SHALL BE GROUND MOUNTED.

DRYER VENT SHALL NOT EXCEED 14'-0" MAX., LENGTH

WATER HEATER SHALL BE CERTIFIED BY THE MFG. AND INSTALLED IN ACCORDANCE WITH ALL APPLICABLE CODES - 50 GAL, MIN., ACTUAL SIZE PER OWNERS SPECS.

- WATER CLOSETS 1.5 GAL / FLUSH MAX...
- ALL SHOWERS SHALL BE EQUIP. WITH FLOW CONTROL DEVICES TO LIMIT TOTAL FLOW TO MAX.. 2.75
- LAVATORY FAUCETS 2.5 GPM SINK FAUCETS - 2.5 GPM

SOLDERS AND FLUX HAVING A LEAD CONTEXT IN EXCESS TO TWO TENTHS OF ONE PERCENT SHALL NOT BE USED IN THE INSTALLATION OR REPAIR OF ANY PLUMBING IN RESIDENTIAL OR NONRESIDENTIAL FACILITIES PROVIDING WATER FOR HUMAN CONSUMPTION WHICH ARE CONNECTED TO PUBLIC WATER SYSTEMS (A.R.S. SEC 49-353)

PROVIDE WATER HEATER WITH TEMP / PRESSURE RELIEF VALVE AND DRAIN LINE TO BE FULL SIZE STEEL PIPE OR HARD DRAWN COPPER TUBING EXTENDING TO THE EXTERIOR OF BUILDING AND TERMINATING IN A DOWNWARD POSITION NOT MORE THAN TWO FEET NOR LESS THAN SIX INCHES ABOVE GRADE.

### COPPER TYPE "L" UNDER FLOOR

COPPER TYPE "M" ABOVE SLAB (OPTIONAL PEX TUBING MAY BE USED FOR DOMESTIC WATER PER

OWNERS OPTION) PVC SCH 40 FROM METER TO HOUSE

### ALL WASTE AND VENT PIPES TO BE PLASTIC ABS

FIXTURES SHALL BE MARKED AS TO ITS FLOW RATE OR WITH A VERIFIABLE MODEL NO. AT THE TIME OF FINAL INSPECTION.

- PROVIDE REMOVABLE PANEL OF SUFFICIENT SIZE TO ACCESS PUMP. CIRCULATION PUMP SHALL BE LOCATED ABOVE THE CROWN WEIR OF THE TRAP
- PUMP AND CIRCULATION PIPING SHALL BE SELF-DRAINING.
- SUCTION FITTINGS SHALL COMPLY WITH THE LISTED STANDARDS. PROVIDE G.F.I. CIRCUIT FOR PUMP. (N.E.C. ARTICLE 680-70).

- RECEPTACLES SHALL BE PLACED SO THAT NO POINT ALONG THE FLOOR LINE OF AN UNBROKEN WALL TWO OR MORE FEET IN IS MORE THAN SIX FEET FROM AN OUTLET WITHIN THAT WALL WALL SPACE -ARTICLE 210-52(a) NEC
- OUTLETS AT KITCHEN COUNTER GREATER THAN 12" SHALL BE INSTALLED SO THAT NO POINT ALONG THE WALL LINE IS MORE THAN 24" FROM A RECEPTACLE OUTLET - ARTICLE 210-52 NEC ALL RECEPTACLE OUTLETS IN BATHROOMS AND GARAGE AT GRADE LEVEL & WITHIN 6'-0" OF THE
- KITCHEN SINK SHALL HAVE GROUND FAULT CIRCUIT INTERRUPTING PROTECTION. ONE 20 AMP BRANCH CIRCUIT SHALL BE INSTALLED TO SERVE THE LAUNDRY ROOM & SHALL HAVE NO OTHER OUTLETS.
- OUTLET BOXES IN THE WALL BETWEEN THE DWELLING & THE GARAGE SHALL BE METAL OR UL APPROVED FIRE-RESISTIVE PLASTIC. OUTLET BOXES IN GARAGE CEILING SHALL BE METAL - PER 2012
- SMOKE DETECTORS ARE TO BE INSTALLED AT EACH SLEEPING ROOM. DETECTORS AT NON-SLEEPING AREAS ARE TO BE WIRED TO THOSE IN SLEEPING AREA SO THAT ALARM WILL BE AUDIBLE IN EVERY ROOM - PER 2012 I.R.C.
- SMOKE DETECTORS SHALL ALSO HAVE BATTERY BACK-UP & EMIT A SIGNAL WHEN BATTERIES ARE SMOKE DETECTORS - FOR ALL SLEEPING AREAS SHALL BE A MINIMUM OF 3'-0" FROM DUCT OPENINGS
- J-BOXES TO BE UL LISTED. TWO OR MORE 20 AMP SMALL APPLIANCE CIRCUITS SHALL BE INSTALLED TO SERVE KITCHEN NOOK & DINING AREAS, NO OTHER OUTLETS SHALL BE ON THESE CIRCUITS.

## GENERAL NOTES

### SUMMARY OF WORK

THE MISPLACEMENT, ADDITION OR OMISSION OF ANY LETTER, WORD, OR PUNCTUATION MARK, OR LACK OF CAPITALIZATION OF A WORD SHALL IN NO WAY DAMAGE THE TRUE SPIRIT, INTENT, OR MEANING OF THESE SPEC'S. WHERE SPECIFIC INSTRUCTIONS IN THESE SPEC'S REQUIRE THAT A PARTICULAR PRODUCT AND/OR MATERIAL(S) BE INSTALLED AND/OR APPLIED, SHALL BE BY AN APPROVED APPLICATOR OF THE MFR. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ENSURE ALL WORK BE DONE PER CODE REQUIREMENTS.

THE CONTRACTOR SHALL BASE HIS PROPOSAL ON THE EXACT BRANDS, SYSTEMS, METHODS, AND MATERIALS SHOWN, IF THE CONTRACTOR DESIRES TO MAKE SUBSTITUTIONS, HE SHALL LIST THEM W/ HIS BID & IN HIS CONTRACT. THE LISTING SHALL BE IN SUFFICIENT DETAIL TO AFFORD THE OWNER MEANS OF COMPARISON & MUST INCLUDE THE MONETARY DIFFERENCE IN CONTRACT PRICE IF THE SUBSTITUTION IS ACCEPTED. SUBSTITUTIONS AFTER SIGNING THE CONTRACT SHALL BE BY CHANGE ORDER ONLY.

#### DISCREPANCIES, ERRORS AND OMISSIONS

IF ANY DISCREPANCIES, ERRORS OR OMISSIONS APPEAR IN THE DRAWINGS, SPEC'S, OR OTHER DOCUMENTS, THE CONTRACTOR SHALL NOTIFY ROBERT KLOB DESIGNS, INC.(RKD) IN WRITING OF SUCH DISCREPANCIES, OMISSIONS OR ERRORS PRIOR TO PROCEEDING WITH ANY WORK WHICH APPEARS IN QUESTION. IN THE EVENT OF THE CONTRACTORS FAILURE TO GIVE SUCH NOTICE, HE SHALL BE HELD RESPONSIBLE FOR THE RESULTS OF ANY SUCH DISCREPANCIES, ERRORS OR OMISSIONS AND THE COST OF RECTIFYING THE SAME. THE CONTRACTOR SHALL HAVE ALL ITEMS OR DETAILS CLARIFIED W/ RKD. PRIOR TO SUBMITTING A BID OR STARTING CONSTRUCTION; OTHERWISE RKD INTERPRETATION SHALL BE FINAL.

#### STANDARD OF CARE

ALL CONTRACTORS AND SUBCONTRACTORS SHALL VISIT THE SITE AND VERIFY EXISTING CONDITIONS OR CONDITIONS THAT WOULD EFFECT THE LOOK, INTEGRITY OR CONSTRUCTION METHODOLOGY PRIOR TO ANY CONSTRUCTION AND/OR FABRICATION. ANY DISCREPANCIES FOUND WILL BE BROUGHT TO THE ATTENTION OF THE GENERAL CONTRACTOR, OWNER & RKD IN WRITING PRIOR TO STARTING WORK, CONSTRUCTION TECHNIQUES AND FINISHES SHALL MEET OR EXCEED SIMILAR FINISHES OF SIMILAR HOMES IN ADDITION TO ALL GOVERNING CODES AND HOA REQUIREMENTS.

#### GENERAL IRC NOTES

NOTE: THE FOLLOWING ITEMS ARE SPECIFIC AREAS IN WHICH THE 2012 I.R.C. IS MORE RESTRICTIVE THAN THE U.B.C. ADHERENCE TO THE FOLLOWING "MORE RESTRICTIVE" I.R.C. CODES IS REQUIRED FOR THESE I.R.C. COMPLAINT PLANS

- 1. CONSTRUCTION DOCUMENTS SHALL BE RETAINED FOR 180 DAYS FROM THE COMPLETION OF THE WORK. CERTIFICATE OF OCCUPANCY REQUIRED ON RESIDENCES.
- 50 SF GROSS FLOOR AREA REQUIRED FOR KITCHENS SHOWERS SHALL HAVE A NONABSORBENT SURFACE TO 6' ABOVE THE FLOOR
- CARPORT & GARAGE FLOORS SHALL SLOPE TO A DRAIN OR VEHICLE DOOR REQUIRED EXIT DOOR TO BE SIDE-HINGED 3' BY 6'8" MIN.
- CONTINUOS STAIR HANDRAIL REQUIRED ON SIDE WHERE TREAD IS NARROWER
- TREADS 10" MIN., RISERS 7-3/4" MAX. HANDRAIL REQUIRED AT THREE OR MORE RISERS
- 10. VAPOR RETARDER REQUIRED ON WARM-IN-WINTER SIDE OF INSULATION IN WALLS, FLOOR AND CEILINGS 11. GRADE AWAY FROM FOUNDATION SHALL FALL 6" MIN. WITHIN 10'
- 12. UNDER-FLOOR VENTILATION AND ACCESS REQUITED IN ALL SPACES BETWEEN FOOT JOISTS AND EARTH 13. FILL MATERIAL LIMITED TO 24" FOR SAND OR GRAVEL AND 8" FOR EARTH
- 14. UNFACED FIBERGLASS BATT INSULATION SHALL BE 16" HIGH MIN.. FOR FIREBLOCKING 15. MORTAR BED JOINTS OF STARTING COURSE LIMITED TO 3/4" THICK
- 16. CLEANOUTS IN GROUTED HOLLOW UNIT MASONRY AT THE BOTTOM COURSES WHERE THE POUR
- 17. TRUSS MEMBERS CANNOT BE CUT, NOTCHED, DRILLED OR SPLICED WITHOUT APPROVAL OF REGISTRANT 18. ROOF VENTILATION REQUIRED OR PER NON-VENTED ATTIC REQUIREMENTS.
- 19. CHIMNEY CRICKETS REQUIRED WHEN DIMENSION PARALLEL TO RIDGE EXCESS 30' 20. COMBUSTIBLE MATERIALS NOT ALLOWED WITHIN 4" OF BACK FACE OF MASONRY FIREPLACE
- 21. INSULATION REQUIRED, SEE PLANS
- 22. RANGE HOODS TO DUCT TO OUTSIDE UNLESS LISTED/LABELED AS DUCTLESS 23. ELECTRIC SERVICES SIZE LIMITED TO 400 AMPS, SEE ELECTRICAL PLAN(S)
- 24. SLEEVES SHALL BE TWO PIPES SIZES BIGGER THAN THE PIPE SHALL BE PROVIDED UNDER A FOOTING OR THROUGH A FOUNDATION WALL FOR WASTE PIPES.
- 25. MINIMUM WATER PRESSURE TO THE BUILDING IS 40 PSI

### ADDRESS MARKING:

A HOUSE NUMBER IS TO BE DISPLAYED IN A PROMINENT MANNER SO IT IS READILY VISIBLE TO ENABLE EMERGENCY VEHICLES TO LOCATE THE RESIDENCE.

### WINDOWS & DOORS.

DOOR AND WINDOW CONTRACTOR TO VERIFY SIZES, LOCATIONS AND STYLES AS SPECIFIED AND GRAPHICALL' REPRESENTED ON PLANS & ELEVATIONS. IT IS THE RESPONSIBILITY OF THE WINDOW CONTRACTOR TO ENSURE THAT ALL DOORS AND WINDOWS MEET APPLICABLE CODES AND REQUIREMENTS. OWNER TO HAVE FINAL SELECTION APPROVAL ON STYLES, TYPES AND MATERIALS,

# LIGHT/VENTILATION/EGRESS

ALL BEDROOM ESCAPE OR RESCUE WINDOWS SHALL HAVE A MIN.. NET CLEAR OPENABLE AREA OF 5.7 SQ. FT. THE MIN.. NET CLEAR OPENABLE HEIGHT DIMENSION SHALL BE 24 INCHES. THE MIN.. NET CLEAR OPENABLE WIDTH DIMENSION SHALL BE 20 INCHES. WHEN WINDOWS ARE PROVIDED AS A MEANS OF ESCAPE OR RESCUE THEY SHALL HAVE A FINISHED SILL HEIGHT OF NOT MORE THAN 44 INCHES ABOVE THE FINISHED FLOOR.

LIGHT & VENTILATION REQUIREMENTS FOR ALL WINDOWS ARE TO COMPLY w/ 2012 I.R.C. GLASS IN HAZARDOUS AREAS AND ALL GLASS WITHIN 18" OF THE FLOOR SHALL BE SAFETY GLASS. PER 2012 I.R.C.

### SAFETY GLAZING

GLAZING IN ANY PART OF A BUILDING WALL ENCLOSING A TUB/SHOWER/SAUNA COMPARTMENT WHERE THE BOTTOM EDGE OF THE GLAZING IS LESS THAN 60 INCHES MEASURED VERTICALLY ABOVE ANY STANDING WALKING SURFACE.

GLAZING IN AN INDIVIDUAL FIXED OR OPENABLE PANEL ADJACENT TO A DOOR WHERE THE NEAREST VERTICAL EDGE IS WITHIN A 24 INCH ARC OF THE DOOR IN A CLOSED POSITION AND WHOSE BOTTOM EDGE IS LESS THAN 60 INCHES ABOVE THE FLOOR OR WALKING SURFACES.

EXCEPTION-GLAZED WHEN THERE IS AN INTERVENING WALL OR OTHER PERMANENT BARRIER BETWEEN THE DOOR AND THE GLAZING. GLAZING WHERE ACCESS THROUGH THE DOOR IS TO CLOSET OF A STORAGE AREA 3' OR LESS IN DEPTH.

SAFETY GLAZING SHALL BE INSTALLED WHEN ALL OF THE FOLLOWING CONDITIONS ARE MET EXPOSED AREA OF AN INDIVIDUAL PANE IS GREATER THAN 36 INCHES ABOVE THE FLOOR, AND ONE OR MORE WALKING SURFACES WITHIN 36 INCHES HORIZONTALLY OF THE GLAZING.

GLAZING IN RAILINGS REGARDLESS OF AN AREA OR HEIGHT ABOVE A WALKING SURFACE SHALL BE SAFETY GLAZING. INCLUDED ARE STRUCTURAL BALUSTER PANELS AND NON STRUCTURAL IN-FILL PANELS.

GLAZING IN WALLS ENCLOSING STAIRWAY LANDINGS OR STAIRWAYS WHERE THE BOTTOM EDGE OF THE GLASS IS LESS THAN 60 INCHES ABOVE A WALKING SURFACE SHALL BE SAFETY GLAZING.

#### ARTIFICIAL LIGHT & MECHANICAL VENTILATION (LIGHTING PER R303.1.1 FOR ROOMS NOT REQUIRING EGRESS PER R310):

THE GLAZED AREAS NEED NOT BE PROVIDED IN ROOMS WHERE ARTIFICIAL LIGHT IS PROVIDED CAPABLE OF PRODUCING AN AVERAGE ILLUMINATION OF 6 FOOT-CANDLES OVER THE AREA OF THE ROOM AT A HEIGHT OF 30 INCHES ABOVE THE FLOOR LEVEL.

#### (VENTING PER R303.1.1 FOR ROOMS NOT REQUIRING EGRESS PER R310): THE GLAZED AREAS NEED NOT BE PROVIDED IN ROOMS WHERE A MECHANICAL VENTILATION SYSTEM IS

PROVIDED CAPABLE OF PRODUCING 0.35 AIR CHANGES PER HOUR OR SUPPLYING OUTDOOR VENTILATION AIR OF 15 CUBIC FEET PER MIN. (2) 100 CFM EXHAUST FANS WITH AUTOMATIC ON/OFF CAN BE INSTALLED I.L.O. MECHANICAL SYSTEM.

### MINIMUM ENERGY EFFICIENCY

THE BUILDING ENVELOPE MUST COMPLY WITH THE FOLLOWING: FENESTRATION = 0.75 MAX.. U-FACTOR, 0.40 MAX.. SHGC. MIN.. R-13 @ FRAME WALLS & FLOORS, R-4 @ MASS WALLS, R-30 @ CEILINGS. DUCT INSULATION REQUIRES A MIN.. OF R-8. MINIMIZE AIR LEAKAGE PER 2012 IRC, N1102.4

## BUILDING SAFETY

SCOPE OF

PERMIT NUMBER

WORK:

OWNER:

**PROJECT** 

ADDRESS:

SITE DATA:

BUILDING CODES:

**DESIGN TEAM** 

DESIGNER:

STRUCTURAL

MECH/PLBG

DESIGN:

C1.0

**GENERAL NOTES** 

SITE SURVEY

AD1.0 DETAILS

AD1.1 DETAILS

AD1.2 DETAILS

AD1.3 DETAILS

CHAPTER 12, REQUIREMENTS FOR GROUP R OCCUPANCIES, AMENDED BY ADDING THE FOLLOWING

"SECURITY REQUIREMENTS" "SCOPE. THE PROVISIONS OF THIS SECTION SHALL APPLY TO ALL DWELLING UNITS WITHIN GROUP R DIVISION 1 AND GROUP R, DIVISION 3 OCCUPANCIES.

"THE REQUIREMENTS OF THIS SECTION ARE NOT INTENDED TO PREVENT EGRESS, AND NO SECURITY DEVICE SHALL BE INSTALLED IN A MANNER WHICH WOULD PREVENT PROPER EGRESS THROUGH DOORS AND WINDOWS AS SPECIFIED IN THE 2012 I.R.C.

(b) EXTERIOR DOORS. ALL MAIN OR FRONT ENTRY DOORS SHALL BE ARRANGED SO THAT THE OCCUPANT HAS A VIEW OF THE AREA IMMEDIATELY OUTSIDE THE DOOR WITHOUT OPENING THE DOOR. SUCH VIEW MAY BE PROVIDED BY A DOOR VIEWER HAVING A FIELD OF VIEW OF NOT LESS THAN ONE HUNDRED EIGHTY (180) DEGREES OR THROUGH A WINDOW.

"ALL EXTERIOR SWINGING DOORS SHALL BE OF SOLID CORE OR METAL SKIN CONSTRUCTION. EXTERIOR GLASS INSERT DOORS SHALL BE CORE OR METAL SKIN IN THE NON-GLAZED PORTION.

"OPEN SPACE BETWEEN TRIMMERS AND WOOD EXTERIOR DOOR JAMBS SHALL BE SOLID SHIMMED EXTENDING NOT LESS THAN TWELVE (12") INCHES ABOVE & BELOW THE DEADBOLT STRIKE PLATE. DEAD-BOLT STRIKE PLATES FOR EXTERIOR DOOR LOCKS SHALL BE ATTACHED TO WOOD JAMBS WITH NOT LESS THAN FOUR (4) No. 8 BY THREE INCH SCREWS OR, WHEN ATTACHED TO METAL JAMBS, SHALL BE ATTACHED WITH NOT LESS THAN FOUR (4) No. 8 MACHINE SCREWS. MINIMUM PENETRATION IS 3/4 INCH INTO THE NEAREST STUD.

"EXTERIOR DOORS WITH HINGE PINS EXPOSED ON THE OUTSIDE SHALL USE HINGES W/ NON REMOVABLE PINS, OR STANDARD PIN HINGES TO PREVENT REMOVAL OF THE DOOR FROM EXTERIOR BY REMOVAL OF THE HINGE PINS NOT LESS THAN THREE (3) 4 1/2" STEEL BUTT HINGES SHALL BE SYMMETRICALLY FASTENED TO BOTH THE DOOR & FRAME w/ NOT LESS THAN FOUR (4) WOOD SCREWS OR TO METAL w/ NOT LESS THAN FOUR (4) #8 MACHINE SCREWS. PER 2012 IRC "ALL EXTERIOR SLIDING DOORS SHALL BE CONSTRUCTED & INSTALLED OR EQUIPPED SO AS TO PROHIBIT

THE RISING. SLIDING. OR REMOVAL OF THE SLIDING SECTION FROM THE TRACK WHILE IN THE CLOSED AND LOCKED POSITION. THE STATIONARY SECTION SHALL NOT BE REMOVABLE FROM THE OUTSIDE. SUCH SLIDING DOORS SHALL BE PROVIDED WITH AN AUXILIARY OR ADDITIONAL LOCKING DEVICE OPENABLE FROM THE INSIDE WITHOUT USE OF A KEY OR SPECIAL KNOWLEDGE OR EFFORT

"STRIKE PLATES SHALL BE ATTACHED TO WOOD W/ NOT LESS THAN FOUR (4) NO.8 BY 3" SCREWS W/ MIN. PENETRATION OF 3/4" INTO NEAREST STUD.

- (C) EXTERIOR DOOR LOCKS. ALL EXTERIOR SWINGING DOORS AND DOORS FROM A DWELLING TO AN ATTACHED GARAGE SHALL BE EQUIPPED WITH A DEADBOLT LOCK. SUCH LOCKS SHALL: HAVE A MINIMUM ONE-INCH BOLT THROW AND RECEIVING STRIKE PLATE HOL
  - ONE-QUARTER INCH DEEPER THAN THE PROJECTED BOLT THROW, AND HAVE A WRENCH-RESISTANT COLLAR; AND HAVE FASTENERS WHICH THREAD INTO THE CYLINDER BODY; AND
- 4. BE OPENABLE FROM THE INSIDE WITHOUT USE OF A KEY.

(d) WINDOWS. EXTERIOR WINDOWS SHALL BE CONSTRUCTED AND INSTALLED SO AS TO PROHIBIT RAISING, SLIDING OR REMOVAL OF THE MOVING SECTION WHILE IN THE CLOSED AND LOCKED POSITION. A PASSIVE WINDOW PANEL SHALL HAVE WEATHER STRIP MOLDING OR GLAZING BEAD WHICH IS NOT EASILY REMOVED FROM THE OUTSIDE TO PREVENT REMOVAL OF THE WINDOW GLASS.

ALLOW THE WINDOW TO BE LOCKED IN A PARTIALLY OPEN, VENTILATING POSITION. ANY LOCKING DEVICE USED ON WINDOWS IN A SLEEPING ROOM SHALL BE OPENABLE FROM THE INSIDE WITHOUT THE USE OF A KEY OR ANY SPECIAL KNOWLEDGE OR EFFORT.

(e) GARAGE DOORS. ALL GARAGE DOORS NOT EQUIPPED WITH A POWER OPERATED MECHANISM SHALL BE EQUIPPED WITH AT LEAST TWO (2) LOCKING DEVICES OF THE FOLLOWING TYPES:

"AN AUXILIARY LOCK SHALL BE INSTALLED ON ALL HORIZONTAL AND VERTICAL SLIDING WINDOWS TO

- THROW BOLT OR FLUSH BOLT.
- CYLINDER-TYPE LOCK. PADLOCK AND HASP.

"ALL GARAGE DOORS SHALL BE CAPABLE OF BEING UNLOCKED AND OPENABLE FROM INSIDE THE GARAGE WITHOUT THE USE OF ELECTRICAL POWER.

"(f) ATTIC ACCESS. ACCESS DOORS TO ATTIC SPACE SHALL BE LOCATED IN THE INTERIOR OF THE DWELLING UNIT OR WITHIN A SECURED ENCLOSED ROOM OR GARAGE.

EXCEPTION: WHERE NO INTERIOR LOCATION IS AVAILABLE, AN ACCESS DOOR SECURED WITH A STEEL HASP AND A HEAVY-DUTY LOCK MAY BE LOCATED ON THE EXTERIOR.

(q) ALTERNATE MATERIAL OR METHODS. THE REQUIREMENTS OF THIS SECTION ARE NOT INTENDED TO PREVENT THE USE OF ANY DEVICE, HARDWARE OR METHOD OF CONSTRUCTION NOT SPECIFICALLY PRESCRIBED WHEN SUCH ALTERNATE DEVICE, HARDWARE OR METHOD OF CONSTRUCTION PROVIDES EQUIVALENT SECURITY AND IS FIRST APPROVED BY THE POLICE CHIEF AND THE BUILDING OFFICIAL."

# STANDARD MATERIAL

MINIMUM MATERIAL SPECIFICATIONS: CONCRETE...  $f_{C}^{\prime} = 2500 \text{ P.S.I.}$  $F'_{v}$  = 40 K.S.I. REINFORCING STEEL. (2012 I.R.C. STD. #26-4) (SNGL); E = 1.6 x 10° P.S.I. H.F. STUD LUMBER\* (STUDS).  $F_{b}' = 675 P.S.I.$ F'<sub>b</sub> = 875 P.S.I. (REP); E = 1.6 x 10<sup>o</sup> P.S.I. D.F. #2 HORIZ FRAMING MEMBERS.

 $F'_{V} = 30 \text{ K.S.I.}$ 

; E = 1.8 x 10<sup>0</sup> P.S.I.  $F_{b}' = 2400 P.S.I.$ GLUE-LAM BEAMS\*... PLYWOOD ROOF... 1/2" STANDARD SHEETING WITH EXT. GLUE PANEL INDEX 32/16

### ALL LUMBER TO BEAR APPROVED GRADING STAMP 'GREEN' BUILDING

ROBERT KLOB DESIGNS, INC. (RKD) WILL EXERCISE REASONABLE EFFORTS TO DESIGN AND SPECIFY PRODUCTS AND/OR SYSTEMS THAT ACHIEVE ENERGY PERFORMANCE EXPECTATIONS OR 'GREEN' CERTIFICATION EXPECTATIONS THAT ARE EXPRESSLY REFERENCED IN THESE PLANS, IF ANY. RKD DOES NOT, HOWEVER, PROVIDE ASSURANCES THAT THOSE PERFORMANCE OR CERTIFICATION EXPECTATIONS WILL BE MET.

REBATES OR GREEN BUILDING INCENTIVES ARE THE RESPONSIBILITY OF THE OWNER AND THEIR CONTRACTORS. RKD DOES NOT GUARANTEE ANY REBATES OR INCENTIVES.

OWNER TO WORK WITH CONTRACTOR, SUBCONTRACTORS AND MANUFACTURES TO ENSURE 'GREEN' OR ENERGY EFFICIENT PRODUCTS ARE INSTALLED CORRECTLY, OPERATED CORRECTLY AND AND ANY WARRANTIES ARE BY THOSE PARTIES AND AT NO POINT ARE THE RESPONSIBILITY OF RKD.

## PERMIT DRAWINGS

OWNER/CONTRACTOR TO ENSURE THAT ALL CONSTRUCTION IS DONE IN ACCORDANCE WITH THE FINAL. MUNICIPALITY APPROVED & PERMITTED DRAWINGS AND THE JOBSITE WORKING DRAWINGS ARE STAMPED AS APPROVED BY THE MUNICIPALITY. FAILURE TO DO SO COULD RESULT IN TIME DELAYS, COST OVERRUNS AND/OR ADDITIONAL SERVICES BY ROBERT KLOB DESIGNS, INC.

## PROJECT DATA

4 BEDROOM, 2.5 BATH CUSTOM HOME, Insulated

500-33-052

2012 International Residential Code (IRC)

2012 International Mechanical Code (IMC)

2012 International Energy Conservation Code (IECC)

2012 International Plumbing Code (IPC)

2005 National Electric Code (NEC)

2012 International Fire Code (IFC)

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2012 International Building Code (IBC)

G - GENERAL 10AC

HOWARD MESA RANCH PH2, UNIT 2

Concrete Forms

COCONINO COUNTY #:\_

LARRY & CHERYL SCHUG

10717 STAGHOUND TRAIL

5980 W. BLUE STAR TRAIL

ZEBULON, NC 27597

919 538 4894

ZONING:

LEGAL:

LOT #:

SUBDIVISION:

480.968.2474

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BUDGET"®

robk@rkdzns.com Robert Klob

Robert Klob

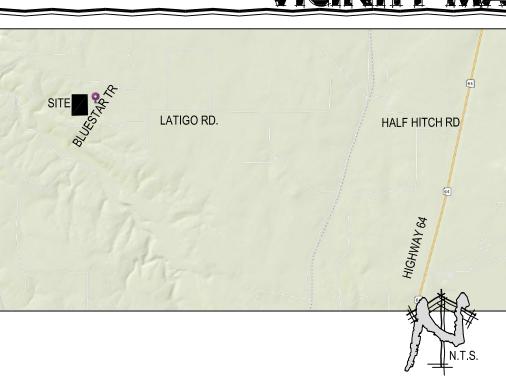
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480.968.2474 [o] robk@rkdzns.com ELECTRICAL Robert Klob Designs, Inc. Robert Klob 411 N. Kyrene, #123 Chandler, AZ 85226

VICINITY MAP



# SHEET INDEX

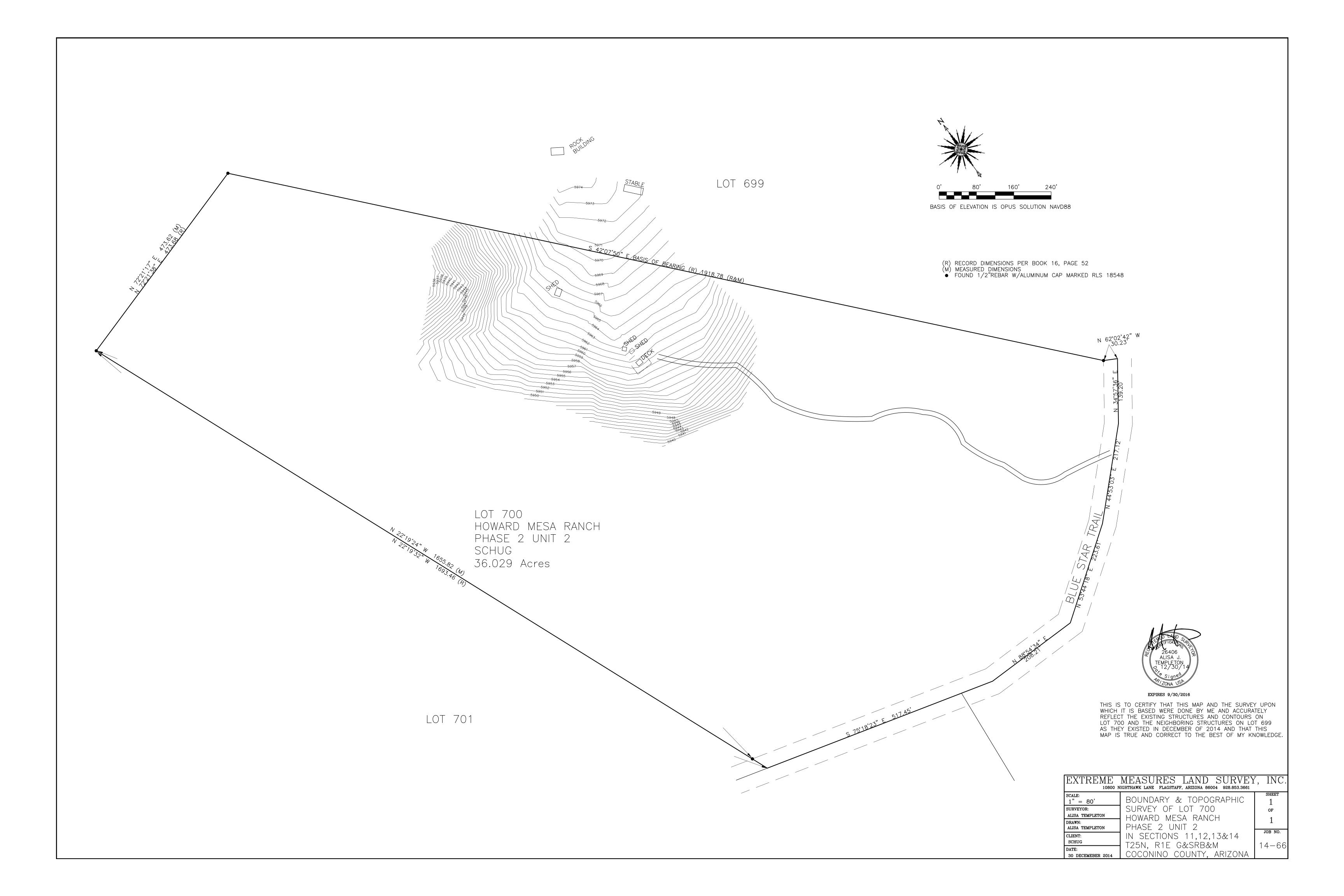
GENERAL STRUCT, NOTES

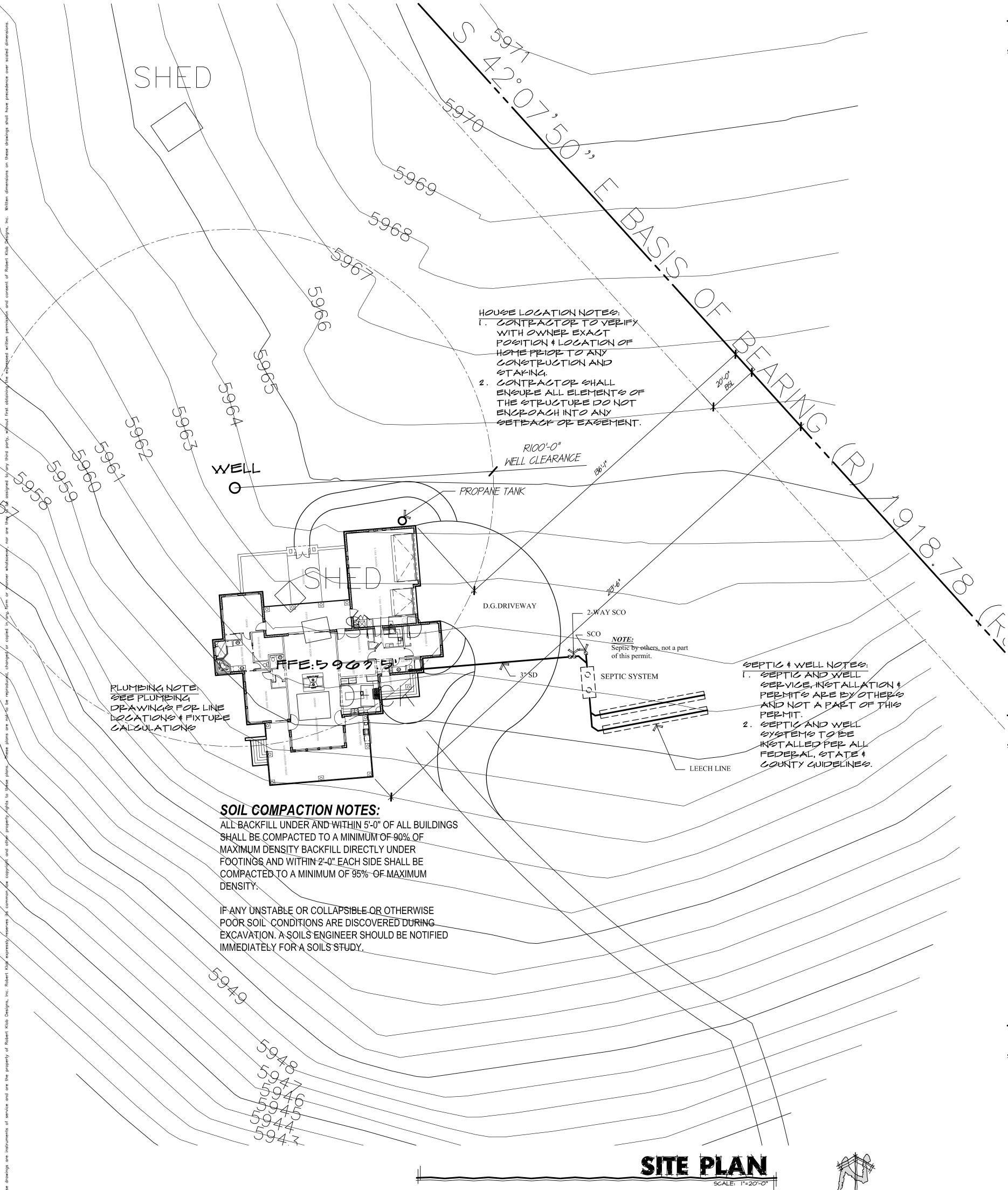
**FOUNDATION PLAN** 

FOUNDATION DETAILS S2.0 FRAMING PLAN SITE PLAN & NOTES OVERALL SITE PLAN FRAMING DETAILS SITE DETAILS FLOOR PLAN - KEYNOTE MECHANICAL PLAN FLOOR PLAN PLUMBING WASTE PLAN PLUMBING WATER PLAN SCHEDULES A2.0 EXTERIOR ELEVATIONS MP1.0 DETAILS A2.1 EXTERIOR ELEVATIONS **BUILDING SECTIONS** ELECTRICAL PLAN ELECT. NOTES & SCHED. ROOF PLAN CEILING PLAN

CHANDLER, AZ 85226

ate: 7/29/







THIS SET OF PLANS HAS BEEN REVIEWED FOR COMPLIANCE WITH CITY REQUIREMENTS PRIOR TO ISSUANCE OF CONSTRUCTION PERMITS. HOWEVER, SUCH REVIEW SHALL NOT PREVENT THE CITY FROM REQUIRING CORRECTION OF ERRORS IN PLANS FOUND TO BE IN VIOLATION OF ANY LAW OR ORDINANCE.

THE CONTRACTOR IS RESPONSIBLE FOR THE REMOVAL OR RELOCATION OF ALL OBSTRUCTIONS WITHIN THE RIGHT-OF-WAY PRIOR TO STARTING NEW CONSTRUCTION.

THE CONTRACTOR IS RESPONSIBLE FOR ARRANGING THE RELOCATION AND ASSOCIATED COSTS OF ALL UTILITIES. A UTILITY RELOCATION SCHEDULE SHALL BE SUBMITTED PRIOR TO THE START OF NEW CONSTRUCTION.

A SURVEYOR SHALL MARK ALL CORNERS OF THE BUILDING THAT ARE LOCATED WITHIN 24 INCHES OF ALL SETBACKS AND/OR EASEMENTS.

LOTS ARE NOT TO BE SPLIT WITHOUT PRIOR CITY APPROVAL AND SHALL BE RECORDED WITH THE COUNTY RECORDERS OFFICE PRIOR TO THE ISSUANCE OF BUILDING PERMITS. A COPY OF THE RECORDED DOCUMENT SHALL BE SUBMITTED WITH THE APPLICATION FOR BUILDING PERMIT AND RECORDED DOCUMENT NOTED ON THE SUBMITTED SITE PLAN.

THE CONTRACTOR SHALL CONTACT BLUE STAKE (602-263-1100, I-800-STAKE IT) 48 HOURS PRIOR TO CONSTRUCTION.

TEMPORARY/SECURITY FENCING THAT IS REQUIRED OR IS OPTIONALLY PROVIDED SHALL BE IN ACCORDANCE WITH THE ZONING ORDINANCE AND THE DESIGN STANDARDS AND POLICIES MANUAL.

THE CONTRACTOR MAY OBTAIN A FIRE HYDRANT METER FOR CONSTRUCTION WATER FROM CUSTOMER SERVICES. THIS METER SHOULD BE ORDERED TWO WORKING DAYS PRIOR TO THE START OF CONSTRUCTION. THE UNLAWFUL REMOVAL OF WATER FROM A FIRE HYDRANT IS A VIOLATION OF THE MUNICIPAL CODE, PUNISHABLE BY FINE AND/OR IMPRISONMENT.

ALL BROKEN OR DISPLACED EXISTING CONCRETE CURB, GUTTER, OR SIDEWALK SHALL BE REMOVED AND REPLACED AS DIRECTED BY THE MUNICIPALITY ENGINEERING DIVISION INSPECTOR.

CONTRACTOR TO INSTALL 2" P.V.C. SLEEVES IO' O.C. UNDER DRIVEWAY \$ SIDEWALKS FOR LANDSCAPE SPRINKLER LINES.

SANITARY SEWER SERVICE & JOINTS SHALL CONFORM TO MUNICIPALITY & I.C.C. REQUIREMENTS. IN THE EVENT THERE IS AN EXISTING SEWER ON THE SITE, THE NEW SEWER SERVICE MAY BE CONNECTED TO THE EXISTING SANITARY SEWER SERVICE IF A CURRENT VIDEOTAPE IS PROVIDED TO THE BUILDING INSPECTOR AND ROBERT KLOB DESIGNS, INC. FOR REVIEW AND, IN THE SOLE OPINION OF THE BUILDING INSPECTOR, THE EXISTING SERVICE IS IN SOUND CONDITION. IF THE EXISTING SERVICE IS NOT SOUND, THE NEW SERVICE MUST CONNECT TO THE EXISTING MYE OR TEE AT THE MAIN.

ALL VEHICLES, CONSTRUCTION EQUIPMENT, AND MATERIAL ASSOCIATED WITH THIS DEVELOPMENT SHALL BE PARKED, OPERATED AND STORED ON THE SUBJECT PROPERTY ONLY.

ONE COPY OF THE APPROVED SITE DEVELOPMENT PLAN SHALL BE ON SITE THROUGHOUT CONSTRUCTION OPERATIONS.

A REGISTERED SURVEYOR SHALL STAKE AND ROPE OR FENCE THE NAOS EASEMENT IN ACCORDANCE WITH THE SITE PLAN AND THE EASEMENT LEGAL DESCRIPTION.

CONTRACTOR TO ENSURE THE LOWEST FLOOR ELEVATION(S) AND/OR FLOOD PROOFING ELEVATION(S) ARE SUFFICIENTLY HIGH ENOUGH TO PROVIDE PROTECTION FROM FLOODING CAUSED BY A 100-YEAR STORM, AND ARE IN ACCORDANCE WITH THE MUNICIPALITY FLOOD CONTROL & DRAINAGE ORDINANCES, FLOODPLAIN AND STORMWATER REGULATION.

SCREENED A MIN. OF I' ABOVE THE HIGHEST PORTION OF THE EQUIPMENT FROM ALL SIDES AND SHALL BE COMPATIBLE WITH THE ADJACENT BUILDING.

GUESTHOUSE SHALL NEVER BE OFFERED FOR RENT. GUEST HOMES ON LOTS UNDER 35,000 S.F. MAY NOT PROVIDE COOKING FACILITIES.

A GUESTHOUSE OR ACCESSORY STRUCTURE SHALL NOT EXCEED A GROSS FOOTPRINT SIZE GREATER THAN 50% OF THE FOOT PRINT SIZE OF THE PRINCIPAL BUILDING.

## AREA CALCULATIONS

SQUARE FOOTAG	GE CALCULATIONS
AREA DESIGNATION	FLOOR AREA
MAIN FLOOR	2,926 SQ. FT.
,	0.00 SQ. FT.
TOTAL LIVABLE	2,926 SQ. FT.
FRONT PORCH	10 SQ. FT.
REAR PATIO	366 SQ. FT.
WRAP-AROUND PORCH	100 SQ. FT.
2 CAR GARAGE	1,011 SQ. FT.
TOTAL UNDER ROOF	5,079 SQ. FT.
TOTAL UNDER ROOF	5,079 SQ. FT.
GROSS SITE AREA	+/- 36.0329 ACRES
LOT COVERAGE THIS SITE	3%
Zonina Tune	

*30%* 

*30'* 

20'

Lot Coverage Maximum

Front Setback

Rear Setback

Side Setback

# SITE LEGEND

MAIN ELECTRICAL LINE

MAIN ELECTRICAL LINE

MAIN SEWER LINE

MAIN WATER LINE

SES SEVERICE ENTRANCE

FH FIRE HYDRANT

SCO SURFACE CLEAN OUT (SEWER)

SOV SHUT OFF VALVE, MAIN WATER CONN.

## SITE NOTES

OIDEWALKO: ALL SIDEWALKS SHALL BE CONSTRUCTED OF PORTLAND CEMENT CONCRETE WITH A COMPRESSIVE STRENGTH OF 3,000 P.S.I. IN 28 DAYS AND A MINIMUM

THICKNESS OF 4". ALL SIDEWALKS ARE TO HAVE A WIDTH OF 4' AND SHALL BE CONSTRUCTED

ALL SIDEWALKS SHALL BE SCORED TO A DEPTH OF 3/4" AT 4 FOOT INTERVALS WITH EXPANSION JOINTS PLACED AT 20 FOOT INTERVALS. EXPANSION JOINTS SHALL BE CONSTRUCTED OF 1/2" THICK PRE-MOLDED EXPANSION MATERIAL WITH ALL CORNERS TO BE FORMED BY EXPANSION

AS PER THE LOCATION SHOWN ON THIS PLAN.

OPERATION PRIOR TO VERTICAL CONSTRUCTION.

ANY SIDEWALK OR ACCESSIBLE ROUTE THAT IS NOT AT A LEVEL ELEVATION AT ITS INTERSECTION WITH A DRIVEWAY OR STREET WILL BE REQUIRED TO INSTALL A CURB RAMP AT A MAXIMUM SLOPE OF 1:12 WITH A MAXIMUM RISE OF 30" AND A MINIMUM LEVEL STRAIGHT CURB SEGMENT OF 48". SIDEWALK SHALL BE SLOPED I" TOWARDS THE STREET.

ALL DRIVEWAYS BETWEEN STREET AND PROPERTY LINE SHALL BE CONSTRUCTED OF PORTLAND CEMENT CONCRETE WITH A COMPRESSIVE STRENGTH OF 3,000 P.S.I. IN 28 DAYS AND A MINIMUM THICKNESS OF 4". ALL DRIVEWAYS BETWEEN STREET AND PROPERTY LINE CONNECTING WITH AN EXISTING ROADWAY ARE TO BE CONSTRUCTED IN ACCORDANCE WITH LOCAL MUNICIPALITY REQUIREMENTS.

DEANAGE ALL PROPOSED UNDERGROUND UTILITIES, UNDER SLAB UTILITIES, SWALES OR OTHER DRAINAGE IMPROVEMENTS SHALL BE CONSTRUCTED AND IN

ALL EXCESS FILL OR SPOIL SHALL BE REMOVED FROM THE SITE OR STORED IN THE LOCATION INDICATED ON A LANDSCAPE PLAN (BY OTHERS).

IF, AFTER CONSTRUCTION IS COMPLETED, THE DRAINAGE ON THIS SITE PROVES TO BE INADEQUATE OR FLOWS ONTO ADJACENT PROPERTY FROM IMPERVIOUS AREAS, IN THE OPINION OF THE BUILDING INSPECTOR, A SWALE OR STORM DRAIN SHALL BE CONSTRUCTED BY THE CONTRACTOR TO THE NEAREST FEASIBLE DRAINAGE OUTLET AT HIS EXPENSE.

FINISHED FLOOR ELEVATION SHALL BE A MINIMUM OF 6" ABOVE THE FINISHED GRADE WITH THE FINISHED GRADE SLOPING AWAY FROM THE RESIDENCE A MINIMUM OF 5% FOR A DISTANCE OF 10'-0".

TOP OF EXTERIOR FOUNDATION SHALL BE 12" PLUS 2% ABOVE THE ELEVATION OF THE STREET GUTTER AT POINT OF DISCHARGE OR THE INLET OF AN APPROVED DRAINAGE DEVICE.

#### TRAFFIC CONTROLO

ANY WORK IN THE ROADWAY OR ADJACENT TO THE ROADWAY CAUSING AN INTERFERENCE TO VEHICULAR TRAFFIC REQUIRES PRIOR NOTIFICATION TO THE MUNICIPALITY TRAFFIC ENGINEERING DIVISION AND CONFORMITY TO THEIR REQUIREMENTS. THE CONTRACTOR MUST FURNISH ALL NECESSARY TRAFFIC SIGNS AND/OR BARRICADES AND MAINTAIN THEM DURING CONSTRUCTION ACTIVITY.

#### TPEE PROTECTION NOTEG

EXISTING VEGETATION WHICH IS TO REMAIN IN PLACE SHALL BE PROTECTED AGAINST UNNECESSARY CUTTING, BREAKING OR SKINNING OF ROOTS, SKINNING AND BRUISING OF BARK, SMOTHERING BY STOCKPILING OF CONSTRUCTION MATERIALS OR EXCAVATED MATERIALS WITHIN THE DRIP LINE, EXCESS FOOT OR VEHICULAR TRAFFIC OR PARKING OF VEHICLES WITHIN THE DRIP LINE.

ALL TREES TO REMAIN SHALL BE PROTECTED WITH A FENCE.

EXISTING VEGETATION WHICH IS TO REMAIN IN PLACE SHALL BE WATERED AS ALL MECHANICAL EQUIPMENT (AIR CONDITIONER, POOL EQUIP. ETC.) SHALL BE REQUIRED TO MAINTAIN ITS HEALTH DURING THE COURSE OF CONSTRUCTION

> PROTECTION SHALL BE PROVIDED FOR ROOTS OVER 1-1/2" IN DIAMETER WHICH ARE CUT DURING CONSTRUCTION OPERATIONS. WHENEVER SUCH A ROOT IS CUT, THE CUT FACES SHALL BE COATED WITH AN EMULSIFIED ASPHALT OR OTHER ACCEPTABLE COATING SPECIALLY FORMULATED FOR HORTICULTURAL USE ON DAMAGED OR CUT PLANT TISSUES. ALL EXPOSED ROOTS SHALL BE TEMPORARILY COVERED WITH WET BURLAP TO PREVENT THE ROOTS FROM DRYING OUT. EXPOSED ROOTS SHALL BE PROVIDED WITH EARTH COVER AS SOON AS POSSIBLE.

VEGETATION THAT BECOMES DAMAGED BY CONSTRUCTION OPERATIONS SHALL BE REPAIRED OR REPLACED IN A MANNER ACCEPTABLE TO THE

DAMAGED TREES SHALL BE REPAIRED BY A CERTIFIED ARBORIST. DAMAGED TREES WHICH CANNOT BE REPAIRED AND RESTORED TO FULL GROWTH STATUS, AS DETERMINED BY THE ARBORIST SHALL BE REPLACED AT THE CONTRACTORS EXPENSE.

NO NATIVE PLANTS ARE PERMITTED TO BE DISTURBED DUE TO CONSTRUCTION AND RELATED ACTIVITIES ASSOCIATED WITH THIS APPROVAL.

NATIVE PLANS TO BE PROTECTED, MARKED, RELOCATED AND MAINTAINED PER CITY, COUNTY & STATE REQUIREMENTS.

### POOL NOTEO:

POOLS REQUIRE SEPARATE APPROVAL AND PERMIT POOLS SHALL NOT BE EMPTIED OR BACKWASHED INTO WASHES, STREETS NAOS, SCENIC CORRIDORS, ON TO AN ADJACENT LOT OR TRACT OF LAND. ALL DOORS & WINDOWS ACCESSING THE POOL AREA MUST COMPLY WITH IRC SEC. AG 105.1 POOL BARRIERS & IRC SEC. R308.4 #9, GLAZING IN HAZARDOUS LOCATIONS. A POOL FENCE IS AN APPROVED ALTERNATIVE.





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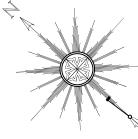
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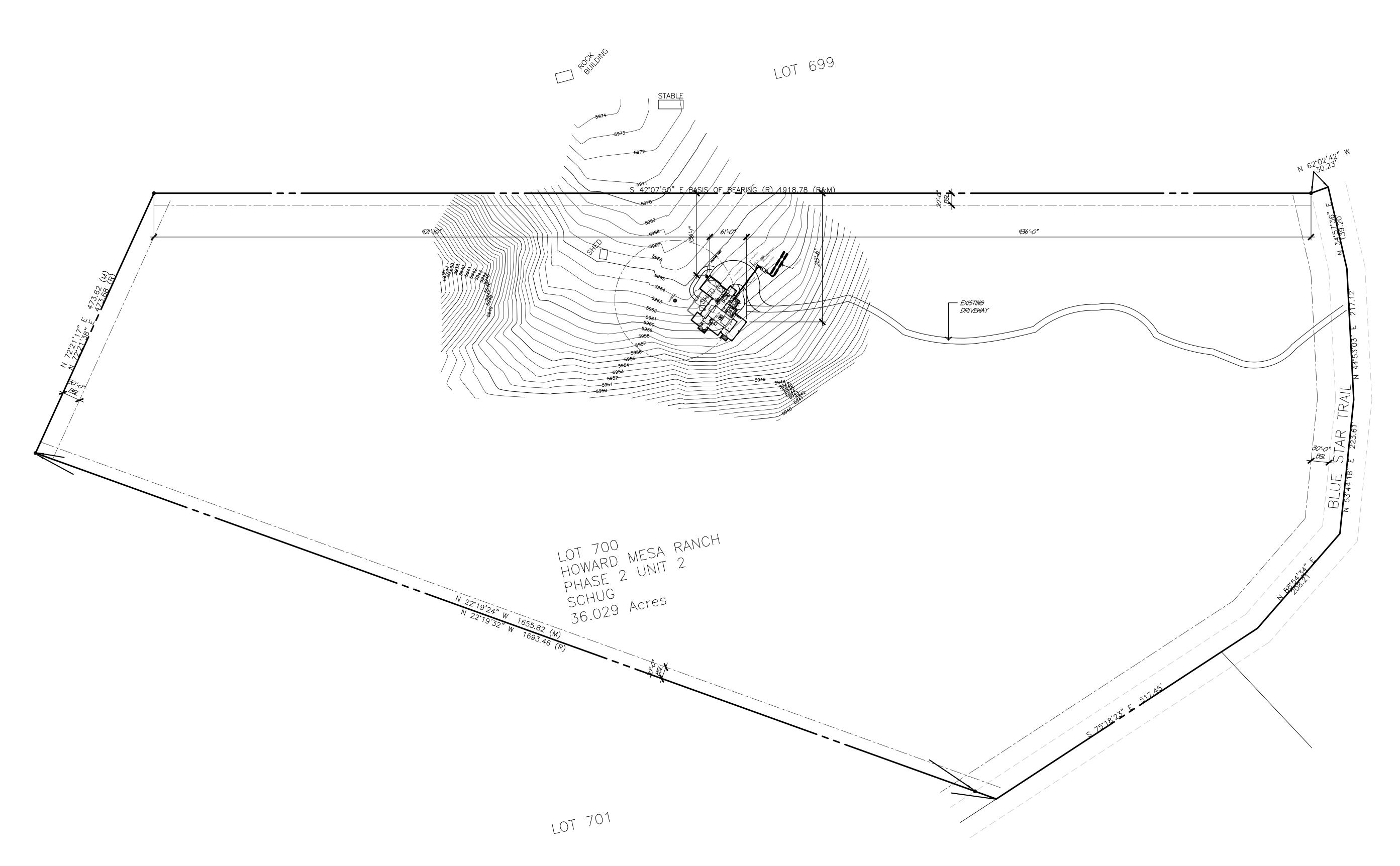
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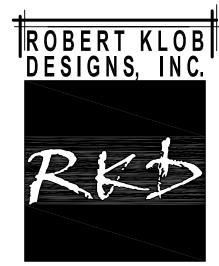




OVERALL SITE PLAN

SCALE: 1"=80'-0"



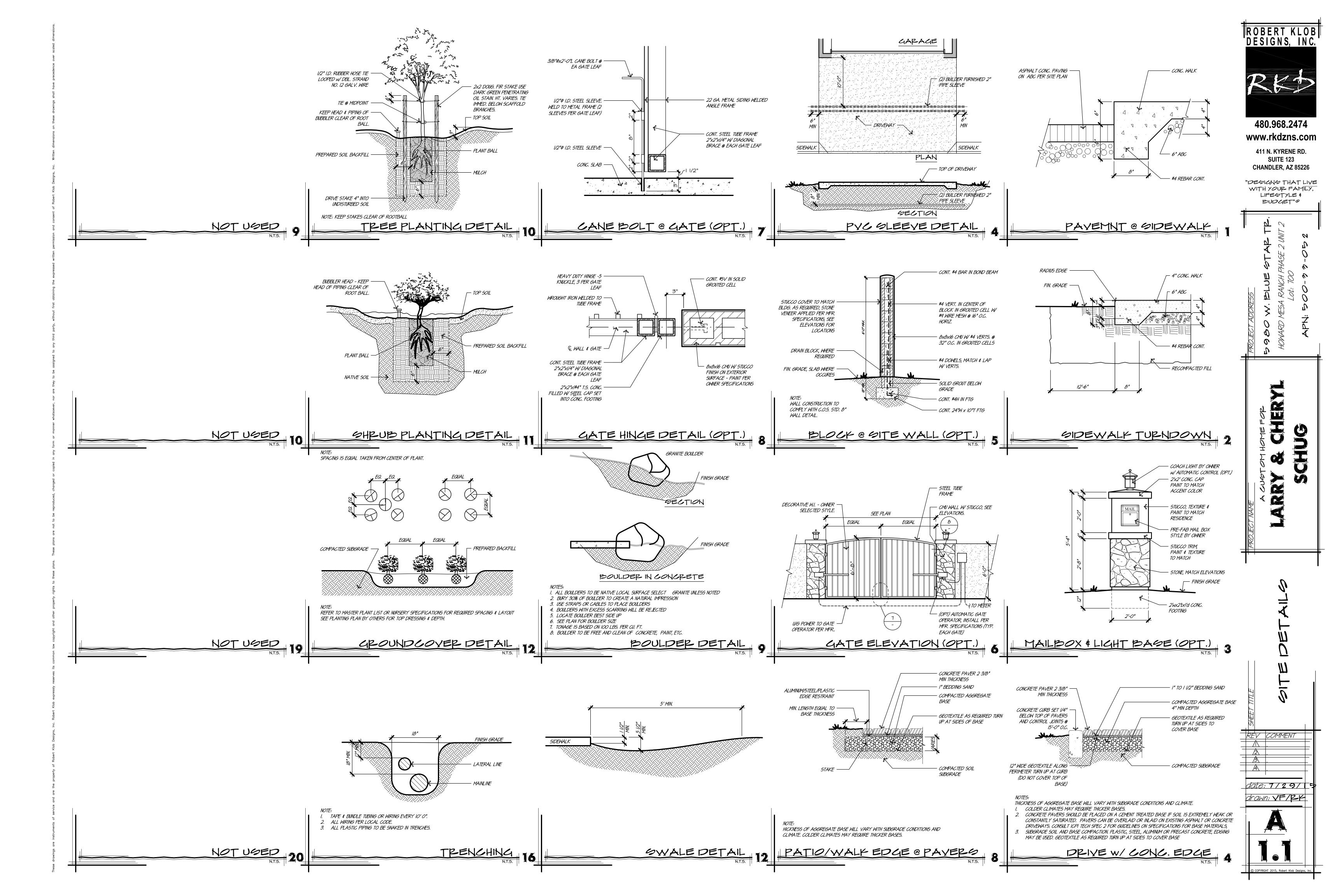


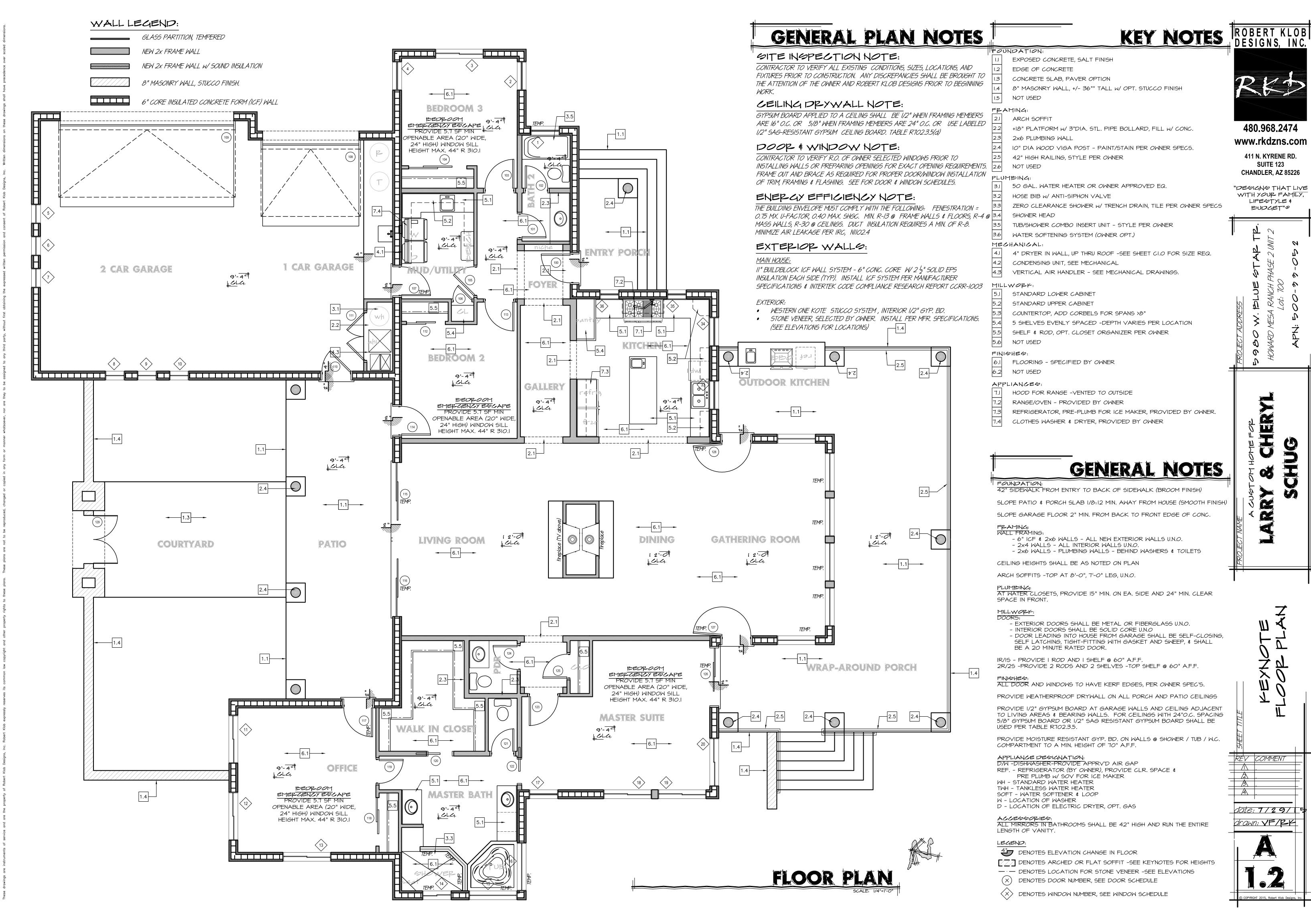
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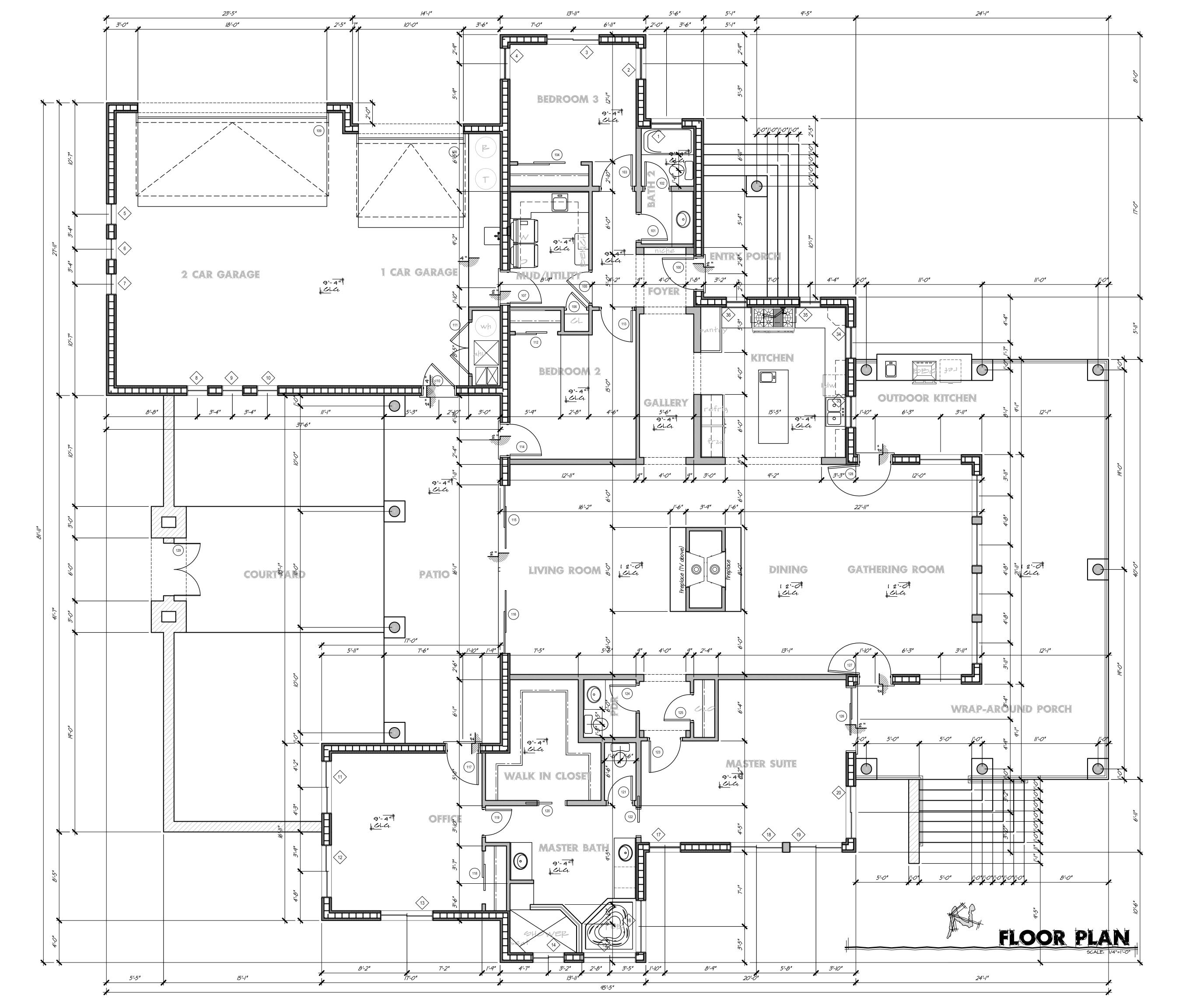
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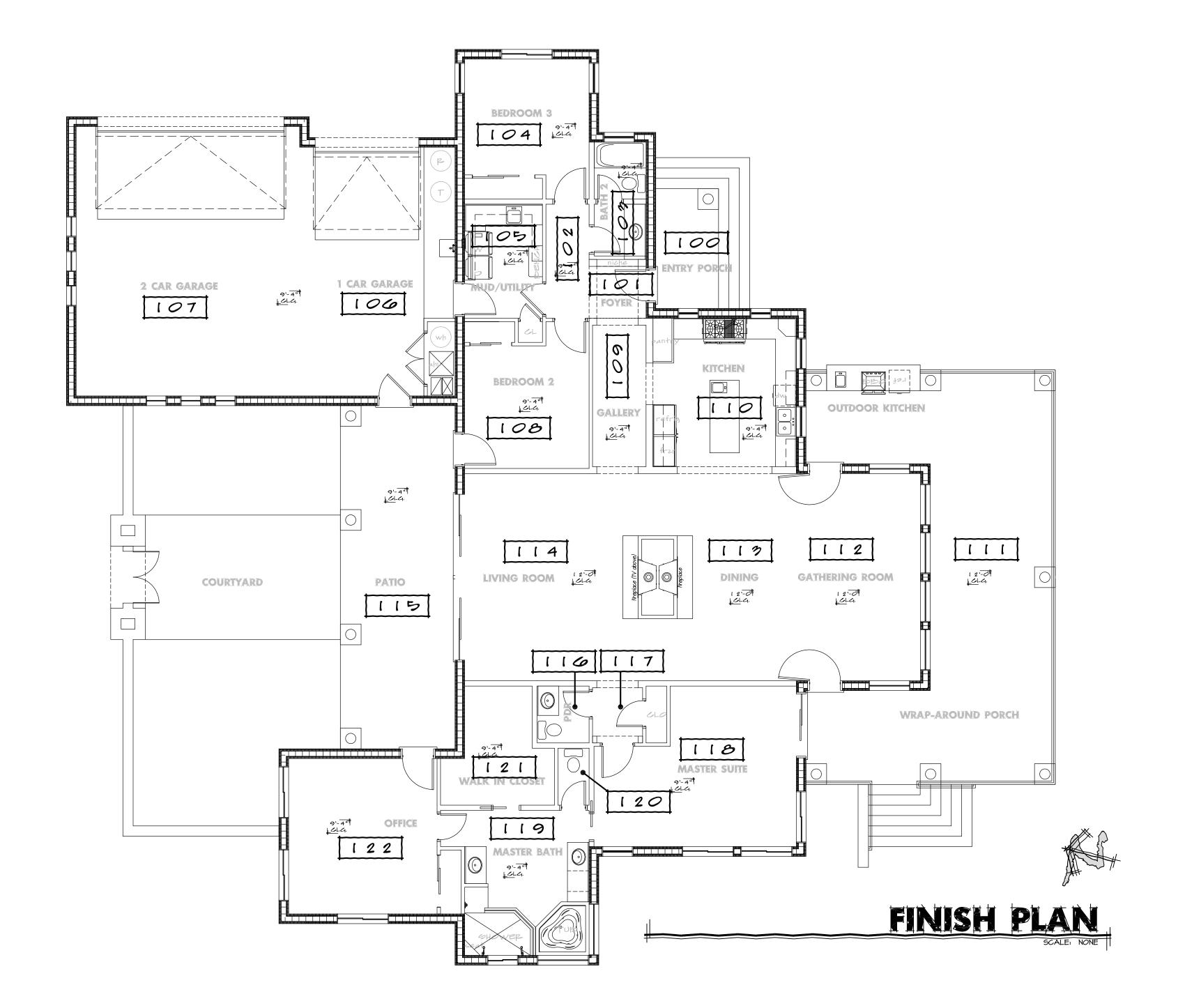
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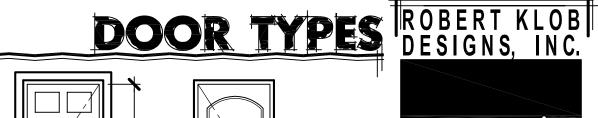
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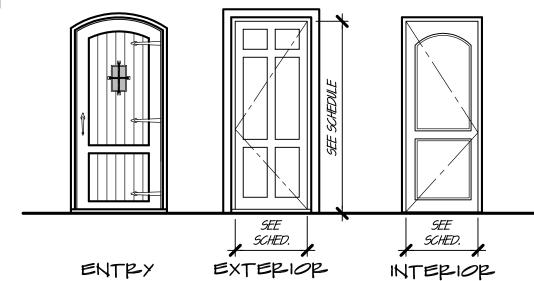
	ROOM FINISH SCHEDULE																							
		FLO	OP	BAGE		WALLO								CEILING										
						NORTH			90	UTH			EAGT			WE	<b>9</b> T	MA	TEPI	AL	TYPE			•
POOM NUMBER	P00M NAME	CONCRETE CONCRETE PAVERS WOOD PLANKING	CARPET CERAMIC TILE TRAVERTINE TILE	WOOD CERAMIC TILE DRYWALL FINISH EDGE	GYP BD LEVEL 3 GYP BD LEVEL 4	GYP BD LEVEL 5 STUCCO, SAND FINISH GLAZINGIDOOR, SEE SCHED. PAINT, COLOR PER OWNER	CERAMIC TILE TRAVERTINE TILE MILLWORK, PER OWNER	GYP BD LEVEL 3 GYP BD LEVEL 4	GYP BD LEVEL 5 STUCCO, SAND FINISH	CERAMIC TILE	TRAVERTINE TILE MILLWORK, PER OWNER	GYP BD LEVEL 3 GYP BD LEVEL 4 GYP BD LEVEL 5	STUCCO, SAND FINISH GLAZING/DOOR, SEE SCHED. PAINT, COLOR PER OWNER	CERAMIC TILE TRAVERTINE TILE MILLMORK, PER OWNER	GYP BD LEVEL 3 GYP BD LEVEL 4	GYP BD LEVEL 5 STICCO, SAND FINISH GLAZINGIDOOR, SEE SCHED.	PAINT, COLOR PER OWNER CERAMIC TILE TRAVERTINE TILE	K OWNEK RD, LEVEL	GYPSIM BOARD, LEVEL 5 MOISTURE RESIST. GYP. PAINT, COLOR PER OWNER	OTHER	FLAT ARCHED BARRELL	COFFERED	HEICHT	PEMAPKO
100	FRONT PORCH																						9'-4"	
101	FOYER																						9'-4"	
102	HALL																						9'-4"	
103	PATH 2																						9'-4"	
104	PATH 9																						9'-4"	
105	MUD/UTILITY																						9'-4"	
106	1 CAP GAPAGE																						9'-4"	
107	2 CAP GAPAGE																						9'-4"	
108	BED 2																						9'-4"	
109	GALLERY																						9'-4"	
110	KITCHEN																						9'-4"	
1 1 1	WEAPPORCH																						12'-0"	
112	<b>GATHERING</b>																						12'-0"	
119	DINING																						12'-0"	
114	LIVINA																						12'-0"	
115	PEAR PATIO																						9'-4"	
116	POWDER																						9'-4"	
117	HALL																						9'-4"	
118	MAGTER GUITE																						9'-4"	
119	MAGTER BATH																						9'-4"	
120	TLT ROOM																						9'-4"	
121	WALK-IN CLOSET																						9'-4"	
122	OFFICE																						9'-4"	

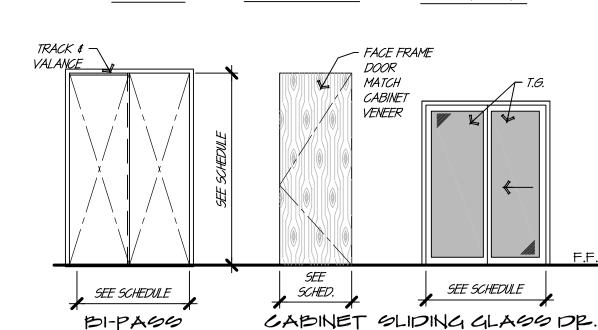


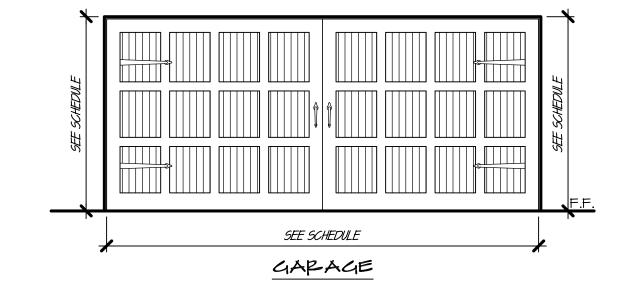
#### WINDOW SCHEDULE Window Size Mark Width Height Head Height Frame Type Remarks 3'-0" 8'-0" CLAD SH DOUBLE HUNG 4'-4" CLAD SH DOUBLE HUNG 2 3'-0" 5'-0" 5'-0" CLAD XO 5'-0" 8'-0" CLAD SH DOUBLE HUNG CLAD FIXED 2'-0" 8'-0" CLAD FIXED 6 2'-0" 2'-0" 7 2'-0" 2'-0" CLAD FIXED 8 2'-0" CLAD FIXED 9 2'-0" 2'-0" CLAD FIXED CLAD FIXED 10 2'-0" 2'-0" 11 5'-0" CLAD XO 5'-0" 8'-0" CLAD XO SLIDING 5'-0" CLAD XO 8'-0" CLAD XO SLIDING 2'-0" 14 3'-0" 15 5'-0" 5'-0" CLAD FIXED 16 5'-0" 5'-0" CLAD FIXED 17 3'-0" 4'-4" CLAD SH DOUBLE HUNG 18 | 5'-0" | 5'-0" CLAD XO SLIDING 19 5'-0" CLAD XO 8'-0" CLAD XO SLIDING 4'-0" CLAD FIXED 7'-0" 4'-0" CLAD AWNING 2'-6" 22 4'-0" 23 4'-0" 7'-0" CLAD FIXED 24 4'-0" CLAD AWNING 25 4'-0" 7'-0" CLAD FIXED 26 | 4'-0" | 2'-6" CLAD AWNING 27 4'-0" CLAD FIXED 4'-0" CLAD AWNING 29 4'-0" 7'-0" CLAD FIXED 4'-0" CLAD AWNING 30 4'-0" 2'-6" 31 4'-0" 7'-0" CLAD FIXED 32 4'-0" CLAD AWNING 33 3'-0" 4'-4" CLAD SH DOUBLE HUNG CLAD SH DOUBLE HUNG 34 3'-0" 4'-4" 35 2'-0" CLAD SH DOUBLE HUNG 8'-0" CLAD SH DOUBLE HUNG 4'-4"

			DO	OR SCHE	DULE		
		Door S:	ize				
Mark	Width	Height	Thickness	Head Height	Material	Туре	Remarks
100.000	3'-0"	8'-0"	1 3/4"	8'-0"	CLAD	SC	Exterior door w/ 180° viewer
101.000	2'-6"	8'-0"	1 3/4"	8'-0"	WOOD	SC	
102.000	2'-4"	8'-0"	1 3/4"	8'-0"	WOOD	SC	
103.000	3'-0"	8'-0"	1 3/4"	8'-0"	WOOD	SC	
104.000	PR 3'-0"	8'-0"	1 3/4"	8'-0"	WOOD	SC	closet bi-pass w/ mfr. track
105.000	3'-0"	8'-0"	1 3/4"	8'-0"	WOOD	SC	
106.000	2'-0"	6'-8"	1 3/4"	6'-8"	WOOD	SC	
107.000	3'-0"	8'-0"	1 3/8"	8'-0"	WOOD	SC	w/ Self Closing Hinge
108.000	10'-0"	8'-0"	1 3/4"	8'-0"	METAL	MTL.	Overhead Garage Door
109.000	18'-0"	8'-0"	1 3/4"	8'-0"	METAL	MTL.	Overhead Garage Door
110.000	3'-0"	8'-0"	1 3/4"	8'-0"	CLAD	SC	Exterior door w/ 180° viewe
111.000	PR 2'-6"	8'-0"	1 3/4"	8'-0"	WOOD	SC	
112.000	PR 2'-0"	8'-0"	1 3/4"	8'-0"	WOOD	SC	closet bi-pass w/ mfr. track
113.000	3'-0"	8'-0"	1 3/4"	8'-0"	WOOD	SC	
114.000	3'-0"	8'-0"	1 3/4"	8'-0"	CLAD	SC	Exterior door w/ 180° viewe
115.000	PR 4'-0"	8'-0"	1 1/4"	8'-0"	CLAD	SGD	Sliding Glass Door, Tempere
116.000	PR 4'-0"	8'-0"	1 1/4"	8'-0"	CLAD	SGD	Sliding Glass Door, Tempere
117.000	3'-0"	8'-0"	1 3/4"	8'-0"	CLAD	SC	Exterior door w/ 180° viewe
118.000	PR 2'-6"	8'-0"	1 3/4"	8'-0"	WOOD	SC	closet bi-pass w/ mfr. track
119.000	2'-6"	8'-0"	1 3/4"	8'-0"	WOOD	SC	
120.000	2'-6"	8'-0"	2"	8'-0"			<del></del>
121.000	2'-4"	8'-0"	1 3/4"	8'-0"	WOOD	SC	
122.000	2'-6"	8'-0"	2"	8'-0"			
123.000	3'-0"	8'-0"	1 3/4"	8'-0"	WOOD	SC	
124.000	2'-6"	8'-0"	1 3/4"	8'-0"	WOOD	SC	
125.000	2'-6"	8'-0"	1 3/4"	8'-0"	WOOD	SC	
126.000	PR 3'-0"	8'-0"	1 1/4"	8'-0"	CLAD	SGD	Sliding Glass Door, Tempere
127.000	3'-0"	8'-0"	1 3/4"	8'-0"	CLAD	SC	Exterior French Door, T.G.
128.000	3'-0"	8'-0"	1 3/4"	8'-0"	CLAD	SC	Exterior French Door, T.G.
129.000	PR 2'-6"	6'-8"	3/4"	13'-4"	WI	WI	Pair Wrought Iron Gates











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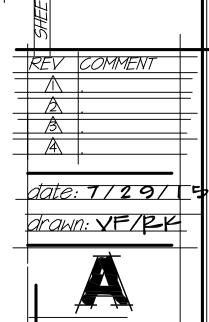
# FINISH NOTES:

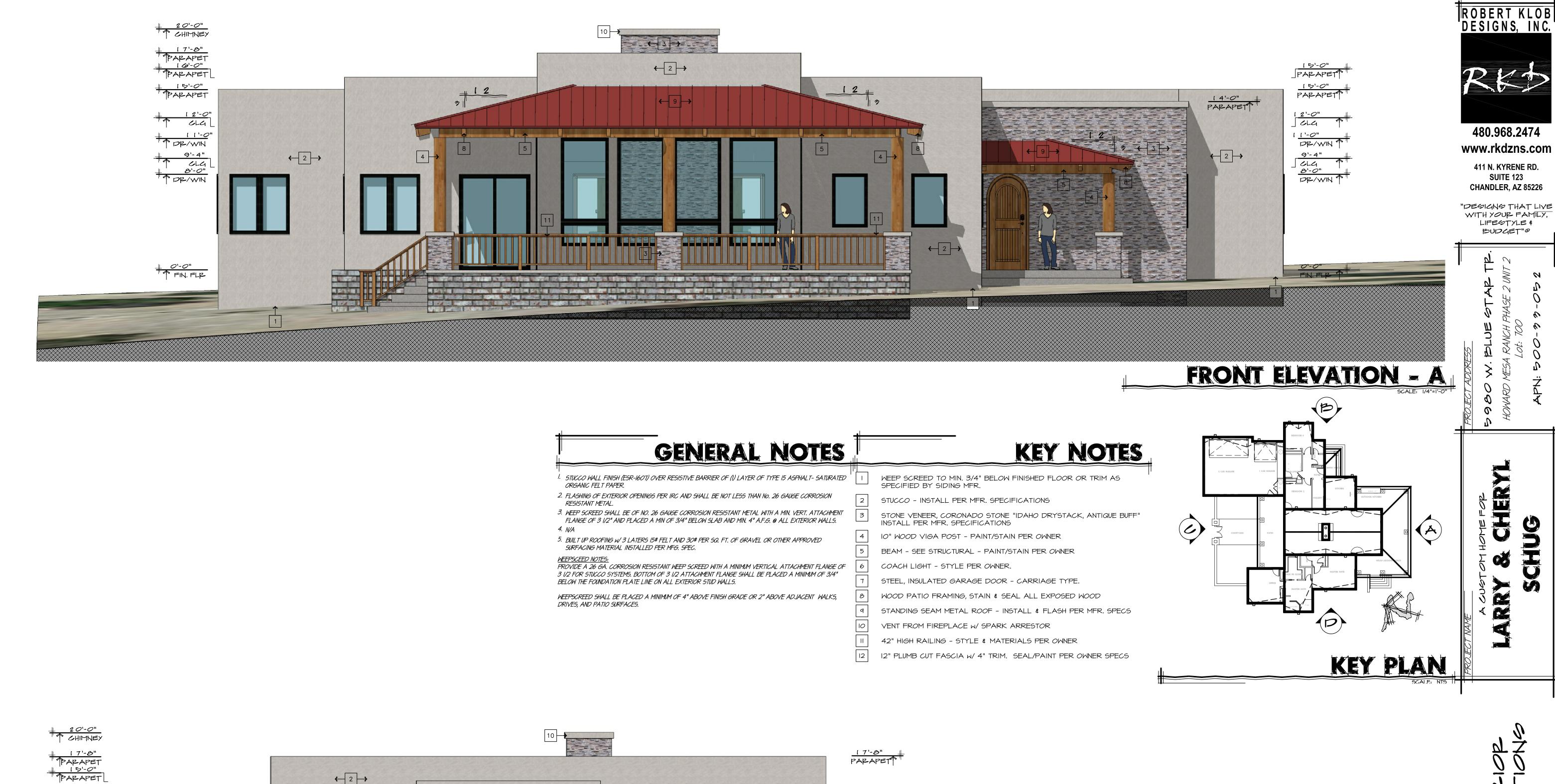
2. CONTRACTOR TO COORDINATE WITH OWNER ACTUAL FINISHES, TEXTURES, TYPES AND MATERIALS PRIOR TO INSTALLATION.

I. FLAME SPREAD RATINGS FOR INTERIOR FINISHES NOT TO EXCEED 200.

- 3. MOISTURE RESISTANT DRYWALL TO BE USED ON ANY WALL CONTAINING PLUMBING PIPING AND PER IRC SPECIFIED LOCATIONS.
- 4. GYP. BD. FINISH GRADES PER NATIONAL GYPSUM PUBLICATION GA-214-10e.
- 5. DRYWALL CONTRACTOR SHALL FOLLOW ICC AND NATIONAL GYPSUM CURRENT SPECIFICATIONS FOR FINISHES, INSTALLATION AND EXPANSION.
- 6. DRYWALL CONTRACTOR TO WARRANTY AGAINST CRACKING AT SEAMS AND CORNERS FOR NOT LESS THAN 2 YEARS FROM CERTIFICATE OF
- 7. SEE DETAIL SHEETS "AD-X" FOR ADDITIONAL INFORMATION. WHERE ONE DETAIL IS SHOWN FOR A CERTAIN CONDITION, THAT DETAIL SHALL GOVERN @ ALL SIMILAR LOCATIONS. WHERE MULTIPLE DETAILS ARE SHOWN FOR SIMILAR CONDITIONS, CONTRACTOR TO VERIFY MATERIALS SHOWN IN DETAIL TO DETERMINE LOCATIONS. CONTRACTOR TO NOTIFY RKD IN WRITING REGARDING ANY QUESTIONS AND/OR DISCREPANCIES.



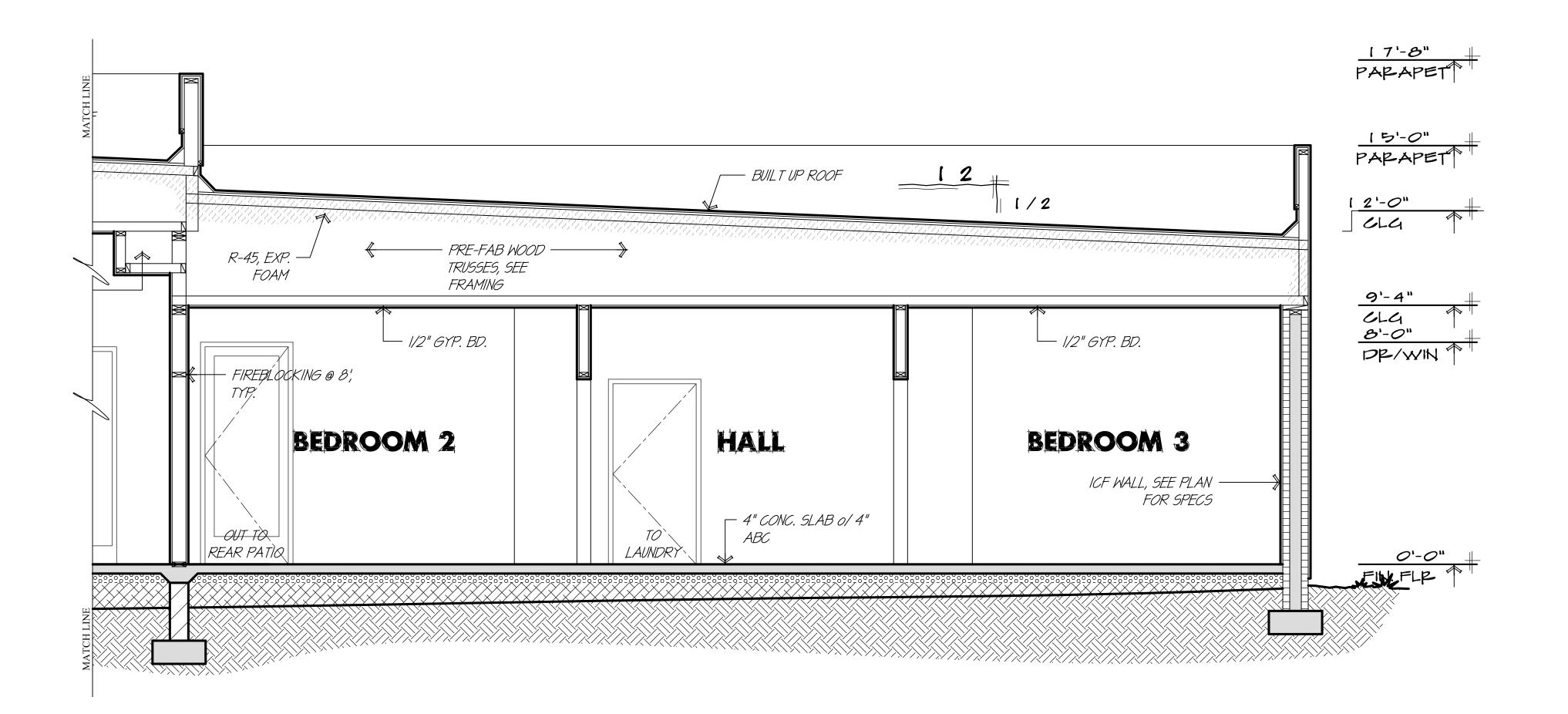




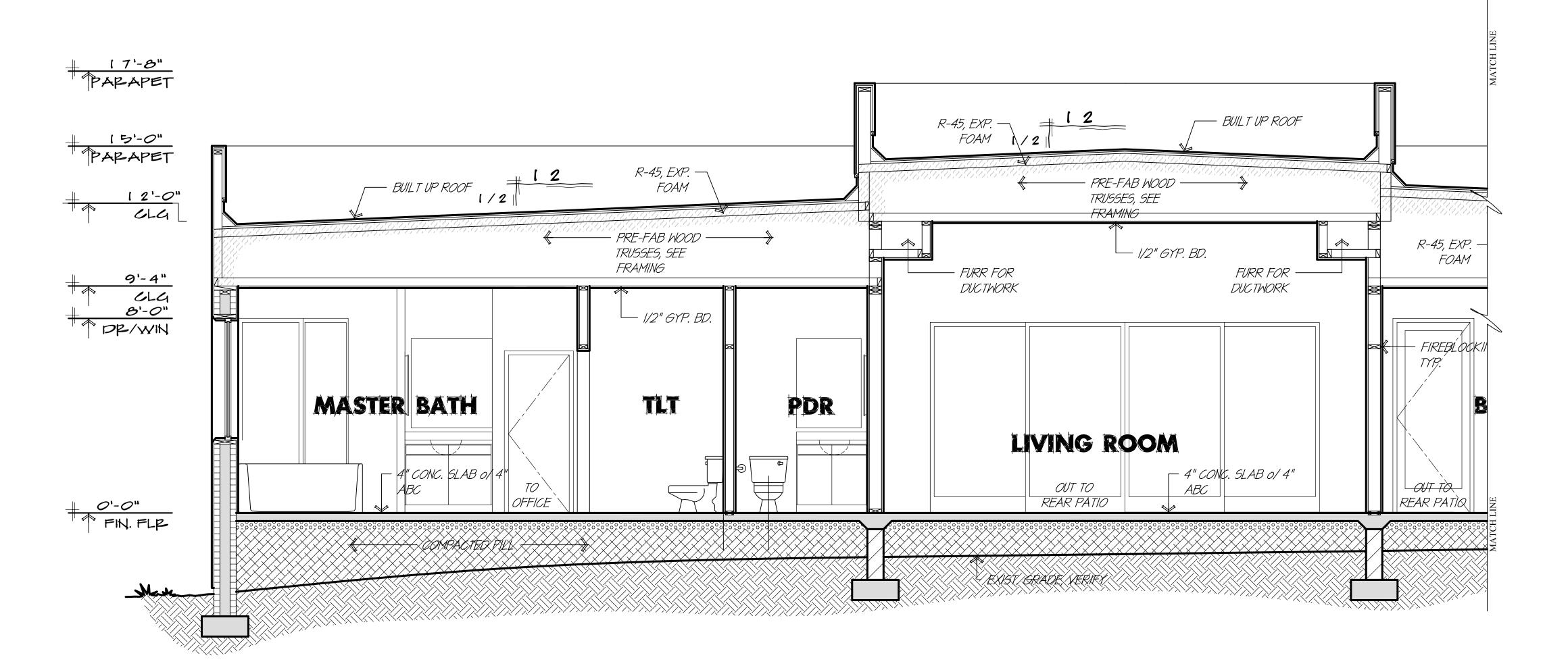




SIDE ELEVATION D D SCALE: 1/4"=1'-0"



# CROSS SECTION A-A



CROSS SECTION A-A

# GENERAL NOTES ROBERT KLOB DESIGNS, INC.

USE SIMPSON H2.5 @ EA. TRUSS/JOIST AND EVERY OTHER STUD. IF SPAN EXCEEDS 22' AT UNCLOSED AREAS AND GARAGES, USE I ANCHORS PER TRUSS/JOIST AND I ANCHOR PER STUD. FRAMING ANCHOR OF TYPE THAT ENGAGES BOTH PLATES (FRAMING ANCHOR AT STUD MAY BE OMITTED IF PLYW'D OR EQUAL SHEATHING IS USED WITH NAILS TO TOP PLATE, EXCEPT UNCLOSED AREAS AND GARAGE.)

2. SEE DETAIL SHEETS "AD-X" FOR ADDITIONAL INFORMATION. WHERE ONE DETAIL IS SHOWN FOR A CERTAIN CONDITION, THAT DETAIL SHALL GOVERN @ ALL SIMILAR LOCATIONS. WHERE MULTIPLE DETAILS ARE SHOWN FOR SIMILAR CONDITIONS, CONTRACTOR TO VERIFY MATERIALS SHOWN IN DETAIL TO DETERMINE LOCATIONS. CONTRACTOR TO NOTIFY RKD IN WRITING REGARDING ANY QUESTIONS AND/OR DISCREPANCIES.

FIREBLOCKING IS REQUIRED IN THE FOLLOWING LOCATIONS: I. CONCEALED SPACES OF STUD WALLS AT CEILING AND FLOOR LEVELS

- 2. FURRED SPACES AND SOFFITS @ 10' LEVELS BOTH ERTICAL AND HORIZONTAL.
- 3. ALL INTERCONNECTIONS BETWEEN CONCEALED ERTICAL & HORIZ. SPACES SUCH AS OCCUR AT DROP CEILINGS, SOFFITS, AND COVE CLG.
- 4. BETWEEN STAIR STRINGERS IN TOP & BOTTOM OF RUN AND BETWEEN STUDS ALONG AND IN LINE WITH THE STRINGERS.
- 5. OPENINGS AROUND PIPES, DUCTS, VENTS AND CHIMNEYS WITH NONCOMBUSTABLE MATERIALS (SUCH AS UNFACED FIBERGLASS INSULATION)
- 6. AT OPENINGS BETWEEN ATTIC SPACES AND CHIMNEY CHASES FOR FACTORY BUILT CHIMNEYS



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INOTALLING FOAM INGULATION IN CONDITIONED ATTICO (R806.4)

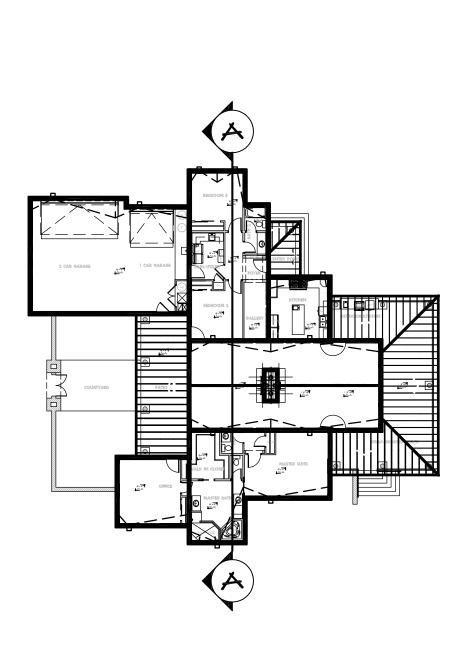
PER CURRENT EVALUATION REPORT NUMBER 3199 FOR PRODUCT MANUFACTURED BY ICYNENE, INC., 6 INCHES OF FOAM WILL BE INSTALLED PER TABLE I OF THE REPORT. PER THE REPORT, THIS INSTALLATION WILL PROVIDE AN 'R' VALUE OF 38.

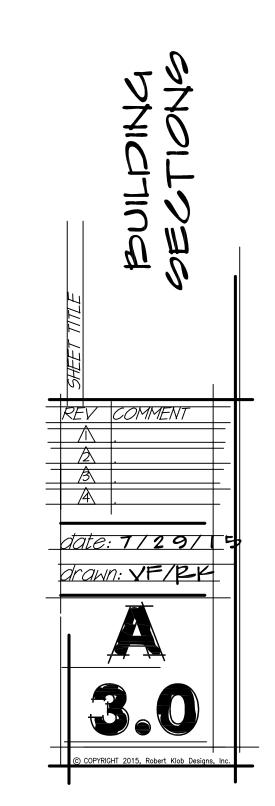
SPECIAL INSPECTION REQUIRED FOR THE APPLIED IGNITION BARRIER.

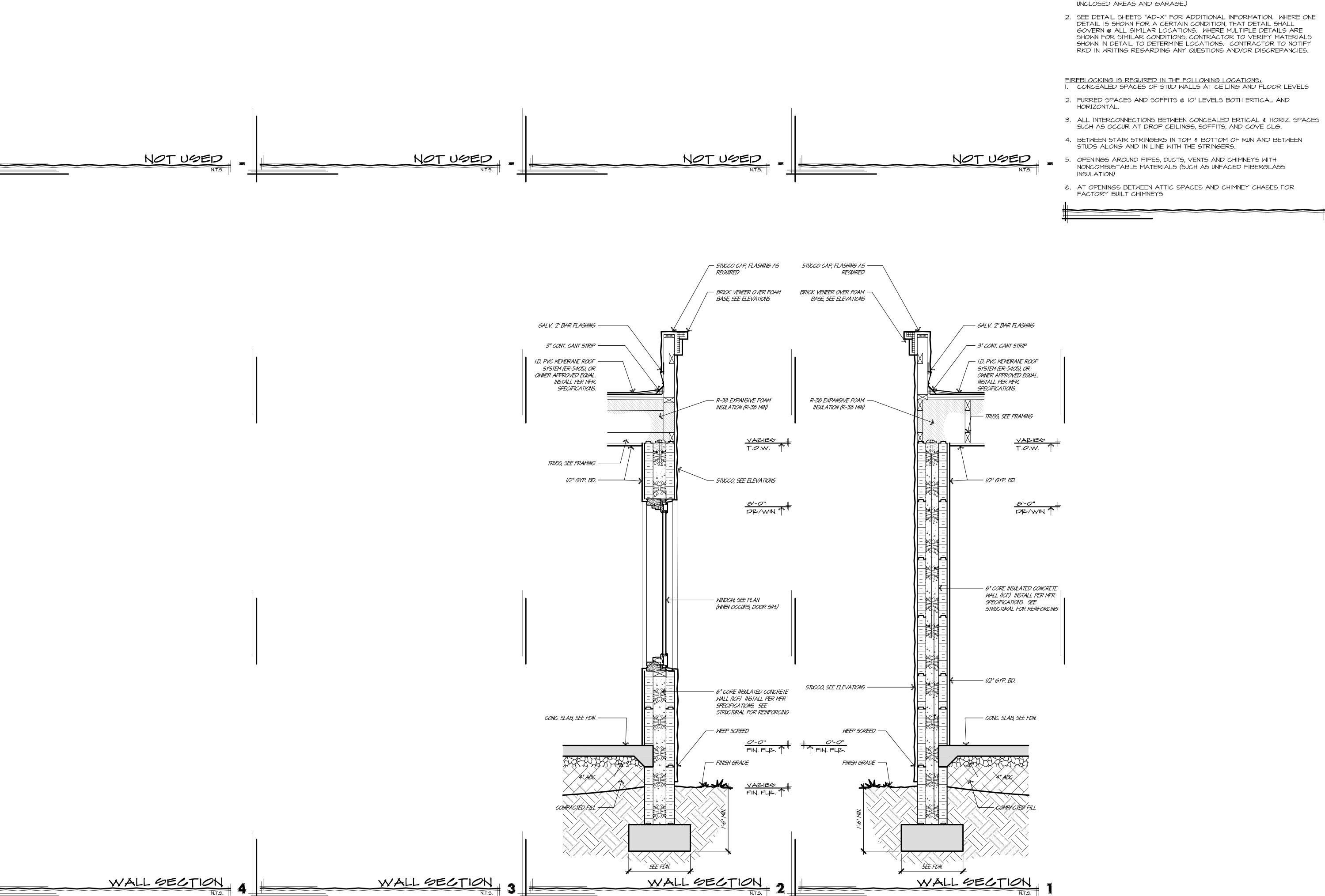
### WALL HEIGHT NOTE:

- ICF WALL HEIGHTS SHALL BE THE CLOSEST NOMINAL HEIGHT TO THOSE SHOWN. FOR "REVERSABLE" ICF SYSTEMS, THE HEIGHT SHALL BE TO THE NEAREST & HEIGHT OF
- THE ACTUAL HEIGHTS OF THE CONTRACTOR SELECTED ICF WALL SYSTEM SHALL GOVERN ALL ICF WALLS AND FRAME WALLS.
- CONTRACTOR SHALL PROVIDE DETAILS OF FINAL WALL HEIGHTS TO RKD AND OWNER IN WRITING PRIOR TO CONSTRUCTION FOR FINAL APPROVAL BEFORE STARTING WORK.









- USE SIMPSON H2.5 @ EA. TRUSS/JOIST AND EVERY OTHER STUD. IF SPAN EXCEEDS 22' AT UNCLOSED AREAS AND GARAGES, USE I ANCHORS PER TRUSS/JOIST AND I ANCHOR PER STUD. FRAMING ANCHOR OF TYPE THAT ENGAGES BOTH PLATES (FRAMING ANCHOR AT STUD MAY BE OMITTED IF PLYW'D OR EQUAL SHEATHING IS USED WITH NAILS TO TOP PLATE, EXCEPT UNCLOSED AREAS AND GARAGE.)
- 2. SEE DETAIL SHEETS "AD-X" FOR ADDITIONAL INFORMATION. WHERE ONE DETAIL IS SHOWN FOR A CERTAIN CONDITION, THAT DETAIL SHALL GOVERN @ ALL SIMILAR LOCATIONS. WHERE MULTIPLE DETAILS ARE SHOWN FOR SIMILAR CONDITIONS, CONTRACTOR TO VERIFY MATERIALS SHOWN IN DETAIL TO DETERMINE LOCATIONS. CONTRACTOR TO NOTIFY RKD IN WRITING REGARDING ANY QUESTIONS AND/OR DISCREPANCIES.

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- 2. FURRED SPACES AND SOFFITS @ IO' LEVELS BOTH ERTICAL AND
- HORIZONTAL.
- 4. BETWEEN STAIR STRINGERS IN TOP & BOTTOM OF RUN AND BETWEEN STUDS ALONG AND IN LINE WITH THE STRINGERS.
- 5. OPENINGS AROUND PIPES, DUCTS, VENTS AND CHIMNEYS WITH NONCOMBUSTABLE MATERIALS (SUCH AS UNFACED FIBERGLASS
- 6. AT OPENINGS BETWEEN ATTIC SPACES AND CHIMNEY CHASES FOR FACTORY BUILT CHIMNEYS

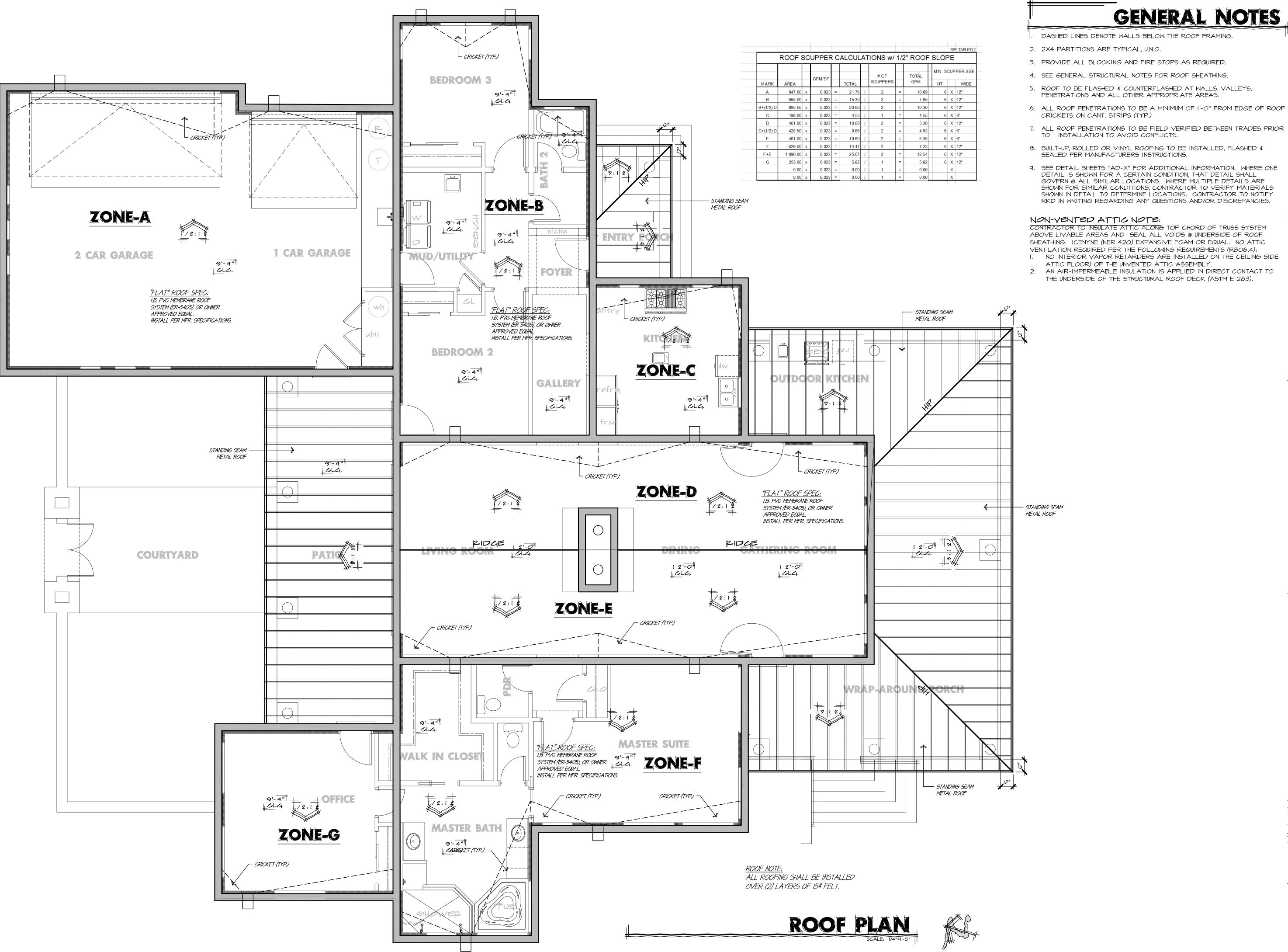


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DASHED LINES DENOTE WALLS BELOW THE ROOF FRAMING.

- 2. 2X4 PARTITIONS ARE TYPICAL, U.N.O.
- 3. PROVIDE ALL BLOCKING AND FIRE STOPS AS REQUIRED.
- 4. SEE GENERAL STRUCTURAL NOTES FOR ROOF SHEATHING.
- 5. ROOF TO BE FLASHED & COUNTERFLASHED AT WALLS, VALLEYS, PENETRATIONS AND ALL OTHER APPROPRIATE AREAS.
- CRICKETS ON CANT. STRIPS (TYP.)
- 7. ALL ROOF PENETRATIONS TO BE FIELD VERIFIED BETWEEN TRADES PRIOR TO INSTALLATION TO AVOID CONFLICTS.
- 8. BUILT-UP, ROLLED OR VINYL ROOFING TO BE INSTALLED, FLASHED & SEALED PER MANUFACTURERS INSTRUCTIONS.
- 9. SEE DETAIL SHEETS "AD-X" FOR ADDITIONAL INFORMATION. WHERE ONE DETAIL IS SHOWN FOR A CERTAIN CONDITION, THAT DETAIL SHALL GOVERN @ ALL SIMILAR LOCATIONS. WHERE MULTIPLE DETAILS ARE SHOWN FOR SIMILAR CONDITIONS, CONTRACTOR TO VERIFY MATERIALS SHOWN IN DETAIL TO DETERMINE LOCATIONS. CONTRACTOR TO NOTIFY RKD IN WRITING REGARDING ANY QUESTIONS AND/OR DISCREPANCIES.

#### NON-YENTED ATTIC NOTE:

CONTRACTOR TO INSULATE ATTIC ALONG TOP CHORD OF TRUSS SYSTEM ABOVE LIVABLE AREAS AND SEAL ALL VOIDS @ UNDERSIDE OF ROOF SHEATHING. ICENYNE (NER 420) EXPANSIVE FOAM OR EQUAL. NO ATTIC VENTILATION REQUIRED PER THE FOLLOWING REQUIREMENTS (R806.4): I. NO INTERIOR VAPOR RETARDERS ARE INSTALLED ON THE CEILING SIDE

2. AN AIR-IMPERMEABLE INSULATION IS APPLIED IN DIRECT CONTACT TO THE UNDERSIDE OF THE STRUCTURAL ROOF DECK (ASTM E 283).

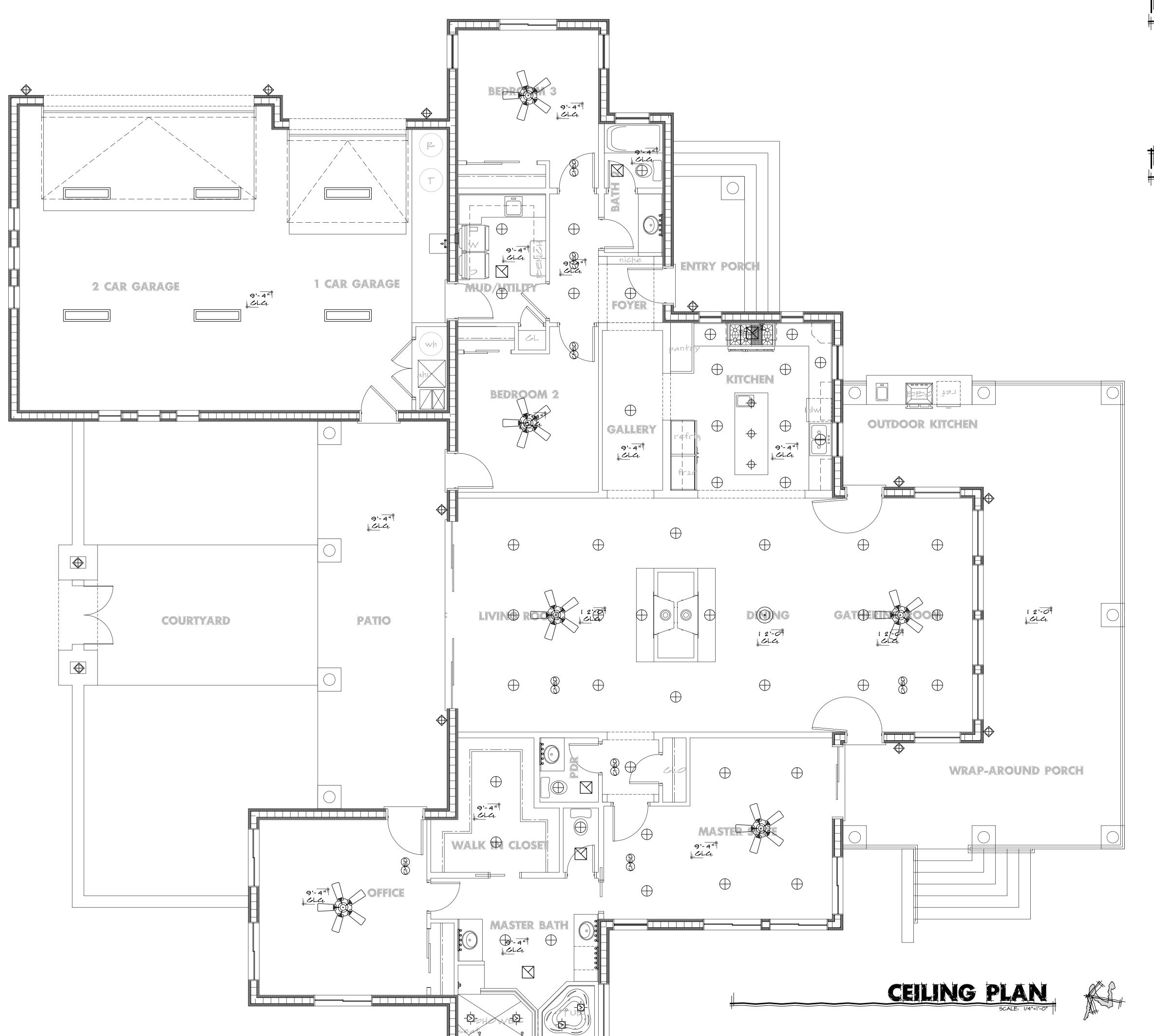
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date: **1/29**/



SEE DETAIL SHEETS "AD-X" FOR ADDITIONAL INFORMATION. WHERE ONE DETAIL IS SHOWN FOR A CERTAIN CONDITION, THAT DETAIL SHALL GOVERN @ ALL SIMILAR LOCATIONS. WHERE MULTIPLE DETAILS ARE SHOWN FOR SIMILAR CONDITIONS, CONTRACTOR TO VERIFY MATERIALS SHOWN IN DETAIL TO DETERMINE LOCATIONS. CONTRACTOR TO NOTIFY RKD IN WRITING REGARDING ANY QUESTIONS AND/OR DISCREPANCIES.



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# SYMBOL LEGEND

= OPT. CLG. FAN / STD. LIGHT

(M) = CARBON MONOXIDE DET.

-- = CEILING MTD HEAT LAMP

= EXHAUST FAN 5 AIR CHANGES PER HOUR

= DUSK TO DAWN PHOTO CELL

= 22"x30" ATTIC ACCESS

6D = SMOKE DETECTOR

= STD. CEILING FAN W/ LIGHT O = CLG. MTD. "GLOBE" LT

-Ø- = "VAPOR PROOF" LIGHT

= SMALL CAN LIGHT

= STD. CAN LIGHT

- = STD. WALL MOUNT LIGHT

• = DECORATIVE PENDANT LIGHT = CHANDELIER

= EXTERIOR COACH LIGHT

2'x4' FLUORESCENT LIGHT = I'x4' FLUORESCENT LIGHT

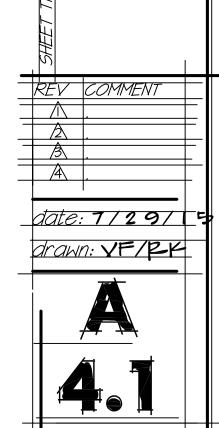
eeee = MULTI-BULB VANITY LIGHT = STD. SWITCHED OUTLET

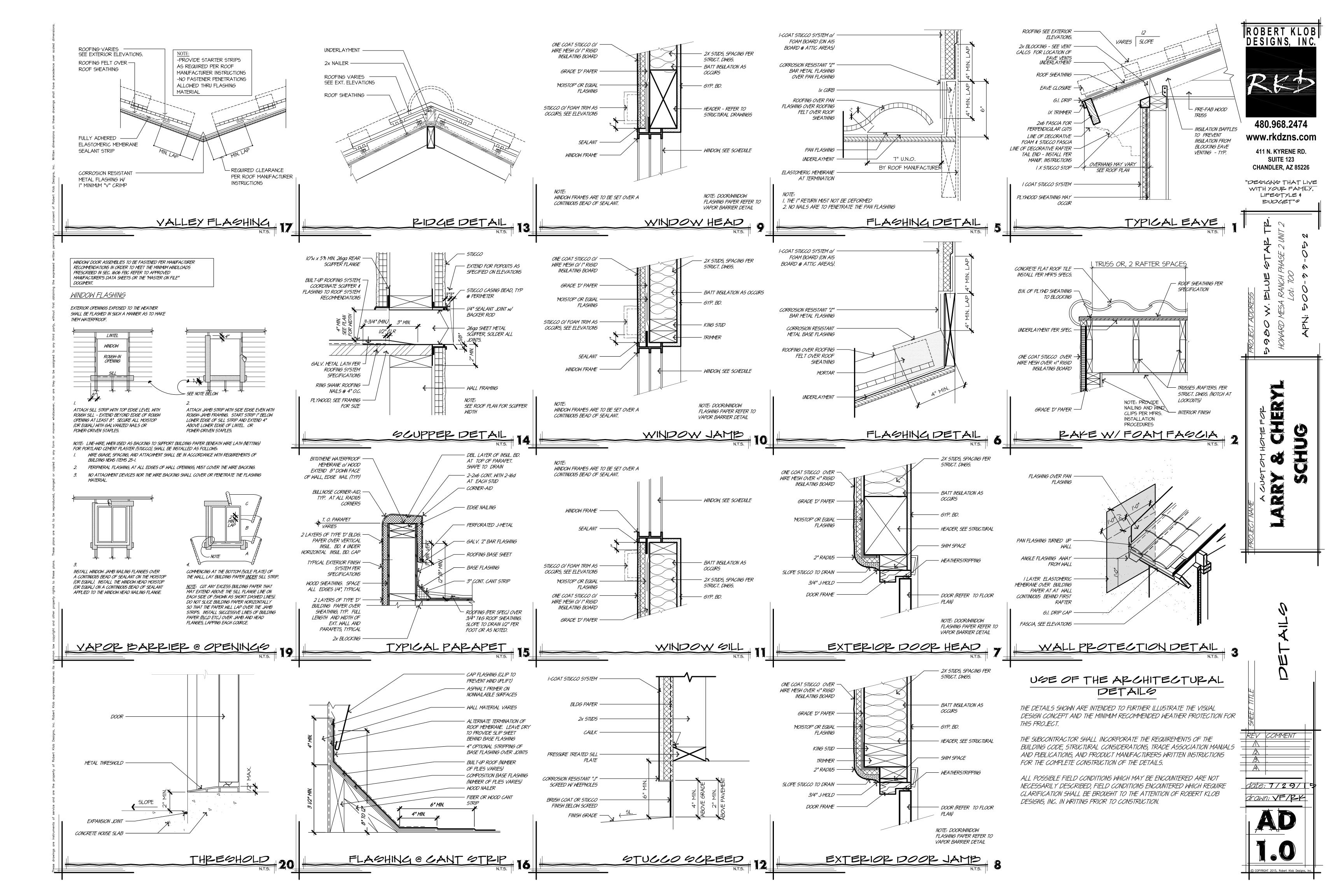
**SUITE 123** 

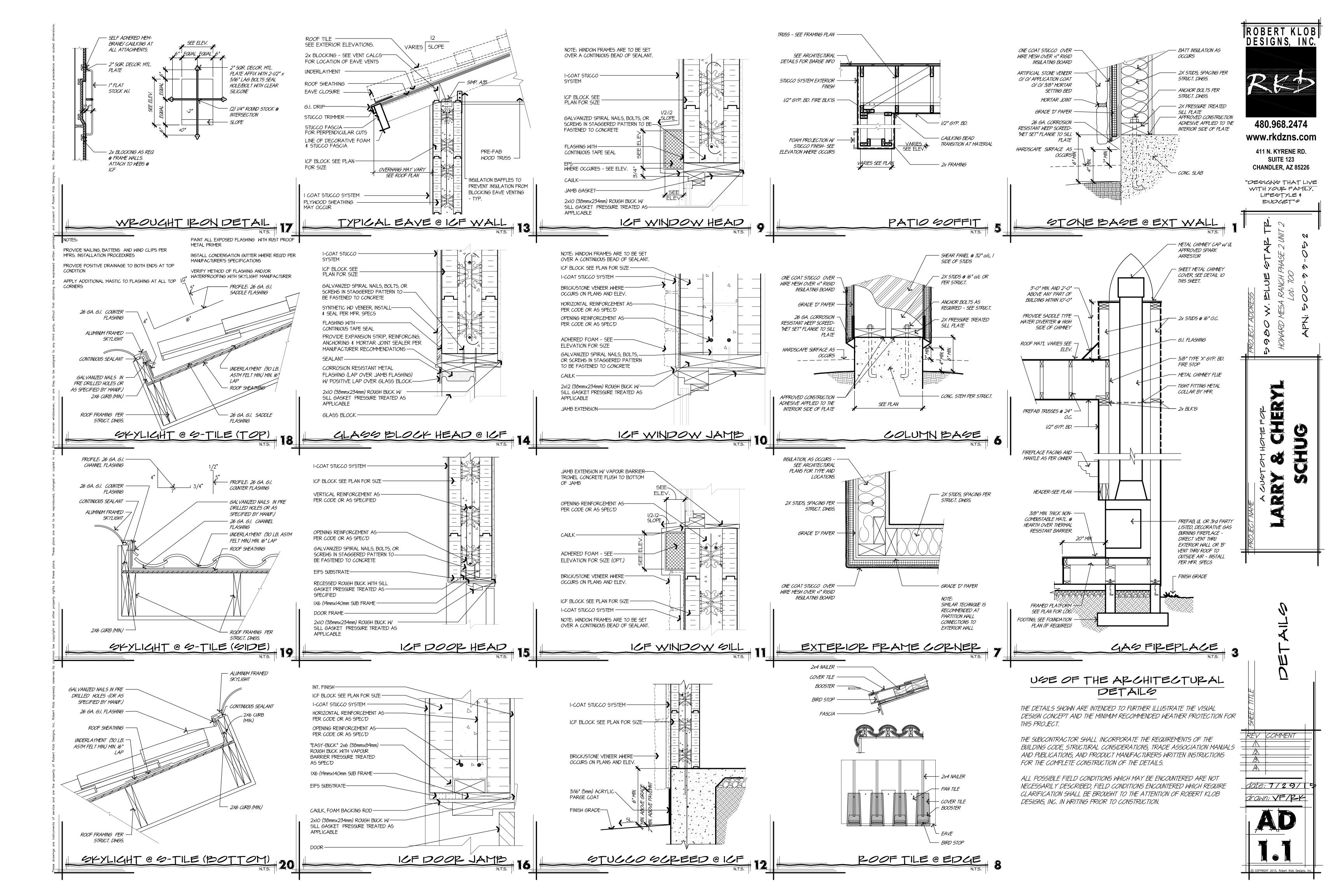
CHANDLER, AZ 85226

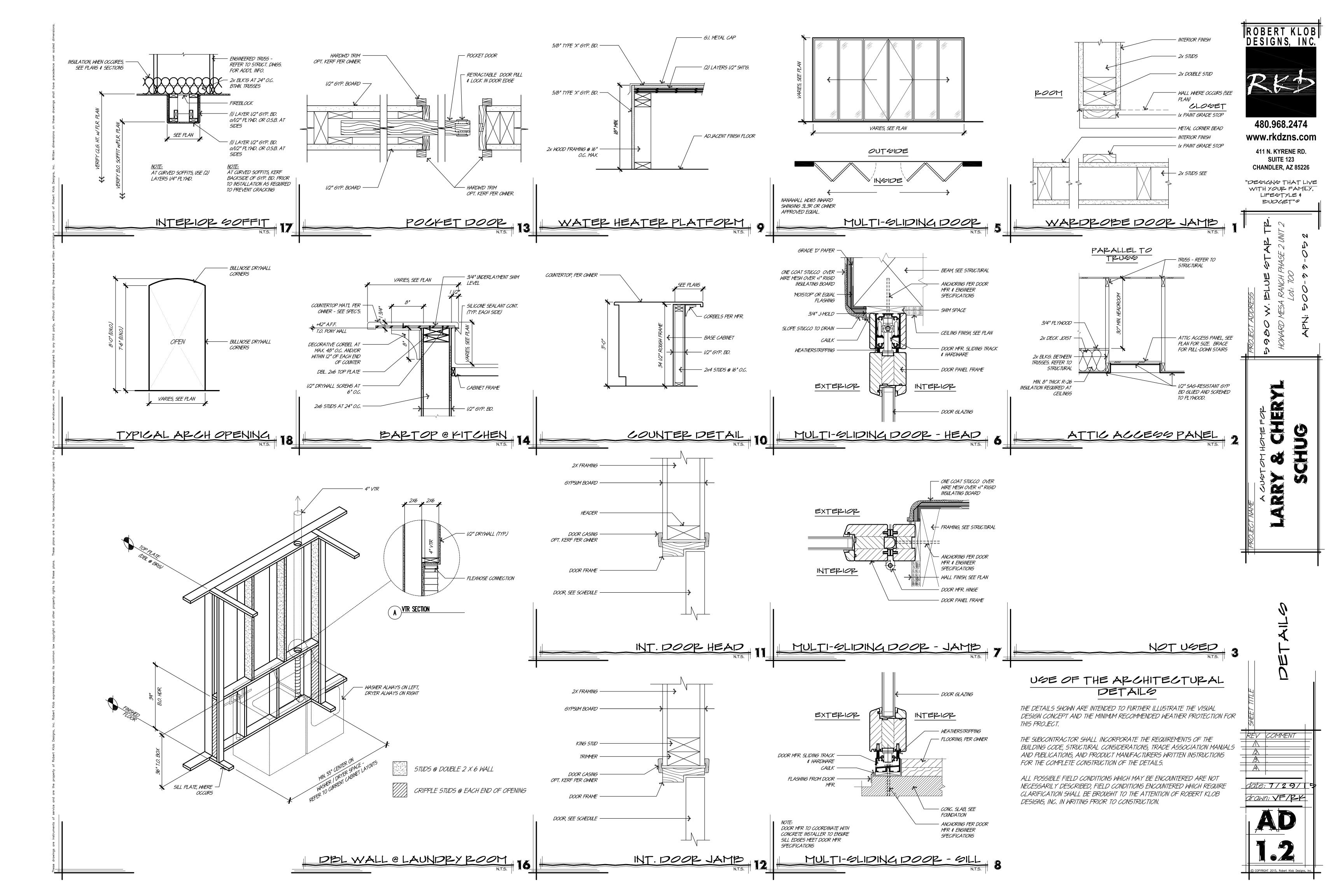
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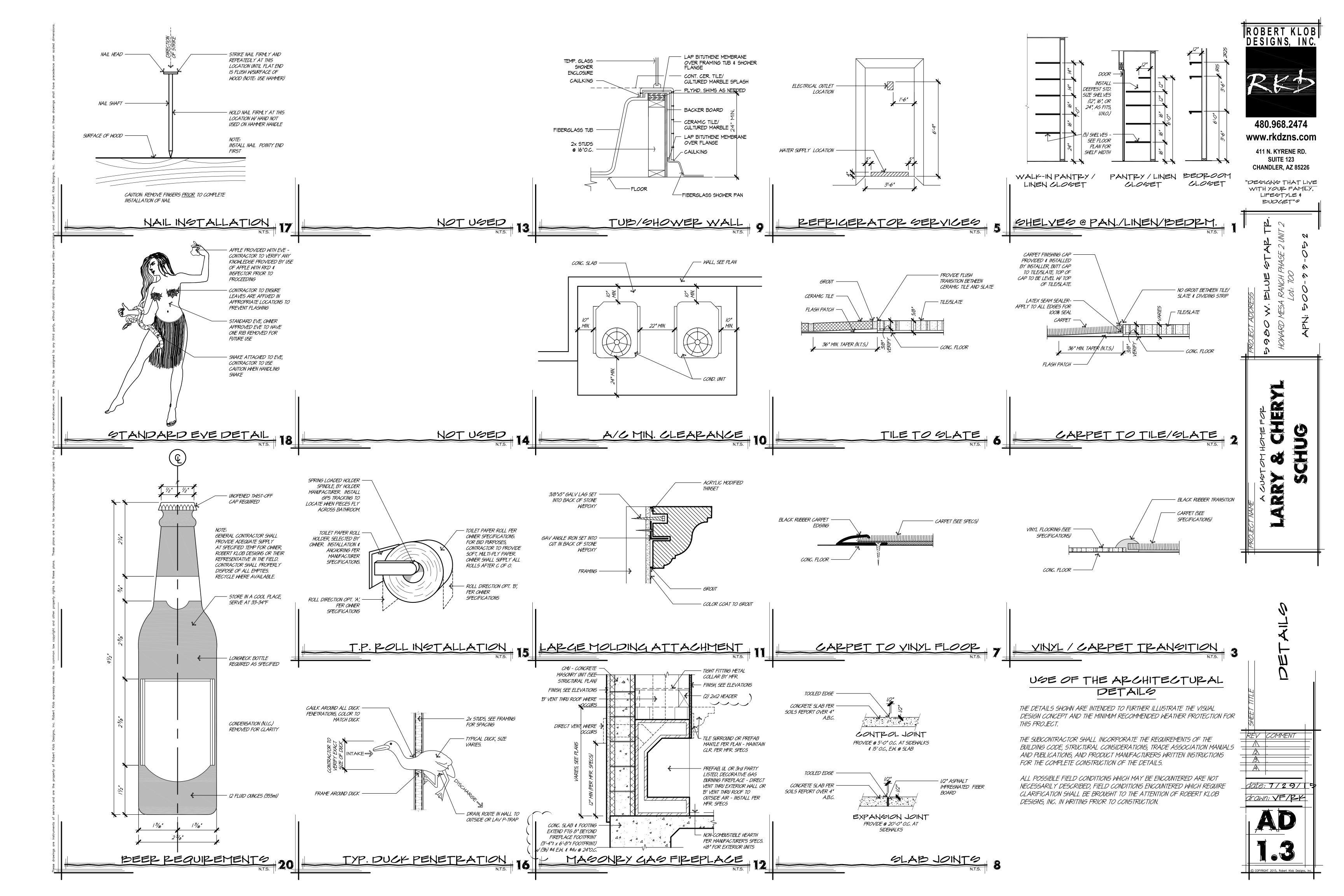
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ICF WALL DESIGN SHALL BE BASED ON THE FOLLOWING INFORMATION UNLESS NOTED OTHERWISE ON THE PLANS, DETAILS, STRUCTURAL CALCULATIONS OR SPECIFICATIONS:

#### ABOVE GRADE WALL WIND PRESSURE DESIGN (TABLE R611.3(1)): DESIGN WIND PRESSURE

27PSF

#### **DESIGN CRITERIA FOR TABLES:**

TABLES BASED ON CONC. w/ A MIN. SPECIFIED COMPRESSIVE STRENGTH OF 2,500 PSI, REINFORCING STEEL w/ A MIN. YIELD STRENGTH OF 40.000 PSI & AN ASSUMED EQUIVALENT RECTANGULAR CROSS SECTION. WHEN REINFORCEMENT WITH A MIN. YIELD STRENGTH OF 60,000 PSI IS USED THE SPAN LENGTHS IN THE SHADED CELLS SHALL BE INCREASED BY 1.2x THE TABLE VALUES (SEE IRC FOR SHADED AREAS)

THESE TABLES ARE NOT INTENDED TO TO PROHIBIT THE USE OF ICF MANUFACTURERS TABLES BASED ON ENGINEERING ANALYSIS IN ACCORDANCE WITH ACI 318

SEE IRC R611 FOR ADDITIONAL INFORMATION AND REQUIREMENTS FOR REINFORCING.

		\ /		DITIONAL TABLE I FFOR FLAT ICF A							
		MINIMUM VERTICAL REINFORCEMENT									
DESIGN WIND PRESSURE [TABLE R611.3(1)] PSF	MAXIMUM UNSUPPORTED WALL HEIGHT (FEET)	NON-LOAD BEARI SUPPORTING		SUPPORTING LIG SECOND STOR		SUPPORTING ICF SECOND STOR AND ROOF					
	WALL HEIGHT (FEET)	MINIMUM WALL THICKNESS (INCHES)									
		4"	6"	4"	6"	4"	6"				
	8'-0"	#4@48"	#4@48"	#4@48"	#4@48"	#4@48"	#4@48"				
20	9'-0"	#4@48"	#4@48"	#4@48"	#4@48"	#4@48"	#4@48"				
	10'-0"	#4@38"	#4@48"	#4@40"	#4@48"	#4@42"	#4@48"				
	8'-0"	#4@42"	#4@48"	#4@46"	#4@48"	#4@48"	#4@48"				
30	9'-0"	#4@32";#5@48"	#4@48"	#4@34";#5@48"	#4@48"	#4@34";#5@48"	#4@48"				
	10'-0"	DESIGN REQ.	#4@48"	DESIGN REQ.	#4@48"	DESIGN REQ.	#4@48"				

		( )	E IRC FOR ADI			Ň					
		MA	AXIMUM CLEAR S	PAN (S=#3 STIRR	UPS "S" O.C. EXC	EPT THE MIDDLE	[X])				
MIMIMUM LINTEL THICKNESS	LINTEL DEPTH (INCHES)	SUPPORTING	G ROOF ONLY		LIGHT-FRAME ORY & ROOF	SUPPORTING ICF SECOND STORY AND ROOF					
		LOAD									
		30 PSF	70 PSF	30 PSF	70 PSF	30 PSF	70 PSF				
	8"	4'-9"	4'-2"	3'10"	3'-4"	3'-5"	3'-1"				
		S=4" [1'-2"]	S=4" [9"]	S=4" [8"]	S=4" [6"]	S=4" [6"]	S=4" [5"]				
	12"	6'-8"	5'-5"	5'-0"	4'-5"	4'-6"	4'-0"				
		S=6" [1'-11"]	S=6" [1'-3"]	S=6" [1'-1"]	S=6" [10"]	S=6" [10"]	S=6" [8"]				
4"	16"	7'-11"	6'-5"	6'-0"	5'-3"	5'-4"	4'-10"				
		S=8" [2'-9"]	S=8" [1'-9"]	S=8" [1'-6"]	S=8" [1'-2"]	S=8" [1'-2"]	S=8" [1'-0"]				
	20"	8'-11" S=10" [3'-5"]	7'-4" S=10" [2'-3"]	6'-9"	6'-0" S=10" [1'-6"]	6'-1" S=10" [1'-7"]	5'-6"				
		9'-10"	8'-1"	S=10" [1'-11"] 7'-6"	6'-7"	6'-9"	S=10" [1'-3"] 6'-1"				
	24"	9-10 S=12" [4'-1"]	S=12" [2'-9"]	7 -6 S=12" [2'-4"]	S=12" [1'-10"]	S=12" [1'-11"]	S=12" [1'-6"]				
		5'-2"	4'-2"	3'-10"	3'-5"	3'-5"	3'-1"				
	8"	S=4" [1'-10"]	S=4" [1'-2"]	S=4" [1'-0"]	S=4" [9"]	S=4" [10"]	S=4" [8"]				
		6'-8"	5'-5"	5'-0"	4'-5"	4'-6"	4'-1"				
	12"	S=6" [3'-0"]	S=6" [2'-0"]	S=6" [1'-9"]	S=6" [1'-4"]	S=6" [1'-4"]	S=6" [1'-1"]				
		7'-10"	6'-5"	6'-0"	5'-3"	5'-4"	4'-10"				
6"	16"	S=8" [4'-1"]	S=8" [2'-9"]	S=8" [2'-5"]	S=8" [1'-10"]	S=8" [1'-11"]	S=8" [1'-7"]				
	0.011	8'-10"	7'-3"	6'-9"	6'-0"	6'-1"	5'-6"				
	20"	S=10" [5'-3"]	S=10" [3'-6"]	S=10" [3'-1"]	S=10" [2'-4"]	S=10" [2'-5"]	S=10" [2'-0"]				
	0.48	9'-8"	8'-0"	7'-5"	6'-7"	6'-8"	6'-0"				
	24"	S=12" [6'-3"]	S=12" [4'-3"]	S=12" [3'-8"]	S=12" [2'-11"]	S=12" [3'-0"]	S=12" [2'-5"]				

SEE TABLE R611 7(3) FOR LINTELS w/ #5 BOTTOM BAR

	MAX. CLEAR SP.	` '		DITIONAL TABL DUT STIRRUPS							
		MAXIMUM CLEAR SPAN									
MIMIMUM LINTEL THICKNESS	LINTEL DEPTH (INCHES)	SUPPORTING	ROOF ONLY		LIGHT-FRAME ORY & ROOF	SUPPORTING ICF SECOND STO AND ROOF					
		LOAD									
		30 PSF	70 PSF	30 PSF	70 PSF	30 PSF	70 PSF				
	8"	2'-6"	2'-6"	2'-6"	2'-4"	2'-5"	2'-2"				
	12"	4'-2"	4'-2"	4'-1"	3'-10"	3'-10"	3'-7"				
4"	16"	4'-11"	4'-8"	4'-6"	4'-2"	4'-2"	3'-11"				
	20"	6'-3"	5'-3"	4'-11"	4'-6"	4'-6"	4'-3"				
	24"	7'-7"	6'-4"	6'-0"	5'-6"	5'-6"	5'-2"				
	8"	2'-10"	2'-6"	2'-6"	2'-5"	2'-6"	2'-2"				
	12"	4'-8"	4'-4"	4'-3"	3'-11"	3'-10"	3'-7"				
6"	16"	6'-5"	5'-1"	4'-8"	4'-2"	4'-3"	3'-11"				
	20"	8'-2"	6'-6"	6'-0"	5'-4"	5'-5"	5'-0"				
	24"	9'-8"	7'-11"	7'-4"	6'-6"	6'-7"	6'-1"				

	TABLE F	R611.7(9) SE	E IRC FOR ADI	DITIONAL TABL	E INFORMATIC	N						
	MIN. BOTTOM E	BAR ICF LINTEL	REINF. FOR L	ARGE CLEAR S	SPANCE IN BRO	G. WALLS						
		MINIMUM BOTTOM LINTEL REINF.										
MIMIMUM LINTEL THICKNESS	LINTEL DEPTH (INCHES)	SUPPORTING	ROOF ONLY		LIGHT-FRAME ORY & ROOF	SUPPORTING ICF SECOND STOR AND ROOF						
		LOAD										
		30 PSF	70 PSF	30 PSF	70 PSF	30 PSF	70 PSF					
FLAT ICF LINTEL, 12'-	-3" MAX. CLEAR SPAN					•						
4"	24"	1 #5	1 #7	DES. REQ.	DES. REQ.	DES. REQ.	DES. REQ.					
6"	20"	1 #6	1 #7	DES. REQ.	DES. REQ.	DES. REQ.	DES. REQ.					
0	24"	1 #5	1 #7	1 #7	1 #8	1 #8	DES. REQ.					
FLAT ICF LINTEL, 16'-	-3" MAX. CLEAR SPAN											
6"	24"	1 #7	DES. REQ.	DES. REQ.	DES. REQ.	DES. REQ.	DES. REQ.					

#3 STIRRUPS REQUIRED A MAX. DEPTH/2 SPACING FOR SPANS GREATER THAN 48"

## FRAMING NOTES

### ALL FRAMING SHALL HAVE A MAXIMUM MOISTURE CONTENT NOT TO EXCEED 19%.

- 2. ALL WOOD BEARING ON CONCRETE OR MASONRY FOUNDATIONS SHALL BE PRESSURE TREATED DF/L
- 3. NAILING SCHEDULE (USE COMMON WIRE OR BOX NAILS). USE ALL GALVANIZED FRAMING NAILS.
- 4. ALL WOOD CONSTRUCTION SHALL CONTAIN AN APPROVED GRADING STAMP ON EACH PIECE. 5. ALL ROUGH LUMBER USED IN THE WORK SHALL BE WEST COAST DOUGLAS FIR OR HEM-FIR, UNLESS
- 6. PLYWOOD SHALL BE CD INT. APA WITH EXTERIOR GLUE WITH THICKNESS AS NOTED ON THE
- 7. ROOF SHEATHING SHALL BE NAILED @ 8" O.C. IN THE FIELD AND @ 6" O.C. AT THE EDGE. GLU-LAM & MICRO-LAM BEAMS:
- A.A. ALL GLU-LAM BEAMS SHALL BE MANUFACTURED, AND ERECTED IN ACCORDANCE WITH ANSI/AITC A190.1-1983 USING EXTERIOR GLUE AND SHALL BE SEALED AND BUNDLED WRAPPED
- (APPEARANCE GRADE PER ARCHITECTURAL SPECIFICATIONS). ALL CONTINUOUS GLU-LAM BEAMS SHALL BEAR THE COMBINATION SYMBOL 24F-E8.
- GLULAM BEAMS WITH Fb=2400 PSI (24F).
- 6X BEAMS AND POSTS FREE OF HEART CENTERS SELECT STRUCTURAL.
- ALL OTHER: NO. 2 OR BETTER
- "TRUSS JOISTS" SHALL BE DESIGNED, MANUFACTURED, AND ERECTED IN ACCORDANCE WITH MANUFACTURES STANDARD SPECIFICATIONS AND DETAILS.
- MICRO-LAMS: FLEXURAL STRESS
- HORIZ. SHEAR PERP. TO GLUE LINE
- COMPR. PERP. TO GRAIN PARALLEL W/ GLUE LINE
- MODULUS OF ELASTICITY:
- NATIONAL DESIGN SPECIFICATIONS AND AITC STANDARDS APPLY. 10. FRAMING LUMBER SHALL COMPLY WITH 1991 N.D.S. STANDARDS
- 11. STUD LENGTH GREATER THAN 8'-1" TO BE HEMLOCK-FIR #2 OR BETTER. STUD LENGTH LESS THAN 8'-1" TO BE CONSTRUCTION GRADE OR BETTER
- 12. AT NON- BRG. EXTERIOR GABLE ENDWALLS USE 2X4 HEM-FIR #2 STUDS OF BETTER AT 16" O.C. TO T.O. PLATE FOR SPANS 9'-0" TO 13'-0" USE 2X4 HEM- FIR #2 STUDS OR BETTER AT 12" O.C. TO T.O. PLATE FOR SPANS 13'-0" TO 15'-0".
- 13. ALL SAWN LUMBER SHALL BEAR STAMP OF WWPA OR APPROVED TESTING AGENCY. 14. SAWN LUMBER SHALL HAVE THE FOLLOWING MINIMUM PROPERTIES U.N.O.:

MEMBER	SPECIES/GRADE	E-PSI
JOISTS	DFL-2	1,600,000
4x4 OR 4x6 POSTS	DFL-2	1,600,000
5x6 POSTS	DFL-1	1,600,000
2x4 OR 3x4 STUDS	HEM-FIR-2 OR BETTER	1,300,000
2x6 STUDS	HEM-FIR-2 OR BETTER	1,300,000
LEDGERS	DFL-2	1,600,000
TOP PLATES	HEM-FIR-2	1,300,000
4x BEAMS	DFL-2	1,600,000

SEE FRAMING PLANS FOR ADDITIONAL STRUCTURAL NOTES

## ICF WALL NOTES

#### INSULATED CONCRETE FORMS (ICF):

CONTRACTOR TO ENSURE ICF WALL IS INSTALLED PER MANUFACTURER ER REPORT OR THESE SPECIFICATIONS WHICHEVER IS MORE STRINGENT.

- ICF WALL SHALL BE ADEQUATELY BRACED PRIOR TO PLACEMENT OF CONCRETE. A MIN. OF ONE DIRECTIONS. BRACING SHOULD PROVIDE TURNBUCKLE OR OTHER MEANS OF ADJUSTMENT SO THAT WALL CAN BE ADJUSTED FOR PLUMB.
- WALL SHOULD BE PLUMB PRIOR TO POURING AT +/- ¼" IN 10'-0" OF HEIGHT. WALLS SHOULD BE PERIODICALLY CHECKED AS CONCRETE IS POURED TO ENSURE THAT WALLS REMAIN PLUMB. ADJUSTMENTS SHOULD BE MADE IMMEDIATELY AS EACH SECTION OF WALL IS COMPLETED.
- USE ASTM A615 GRADE 40 FOR #4 REINFORCEMENT.
- ALL REBAR REINFORCEMENT SHALL BE PLACED WITHIN INTEGRAL GUIDES AND HANGERS ACCORDING TO THE STRUCTURAL CALLOUTS SPECIFIED ON THE PLANS AND/OR CALCULATIONS. IF NOT SPECIFICALLY NOTED OTHERWISE, VERTICAL REBAR SHALL BE PLACE AS SPECIFIED ON THE PLANS WITHIN THE FORMS INCLUDING NEXT TO WINDOWS, DOORS AND OTHER OPENINGS. HORIZONTAL REBAR ALL ALTERED (STUBBED) TRUSSES SHALL BE DONE BY THE MANUFACTURER. REINFORCEMENT SHALL BE PLACED WITHIN WALL AS SPECIFIED ON THE PLANS WITH LAP JOINTS A
- REBAR AT CORNERS TO MATCH AND LAP HORIZONTAL REINFORCEMENTS. CONCRETE SHALL BE 3000 PSI OR STRONGER, 3/8" CHIP OR ROCK MIX, 6" SLUMP MAXIMUM, 5" MINIMUM OUT OF THE PUMP HOSE. MIX SHOULD YIELD 3000 PSI STRENGTH AT A DESIGNED SLUMP OF 5 ½" TO 6". PREFAB TRUSSES SHALL BE 2X4 NO. 2 D.F.L., SFP, HEM FIR, OR BETTER. FLY ASH MIX IS ACCEPTABLE (18% MAX). RETARDERS TO INCREASE WORKING TIME ARE ACCEPTABLE. WATER REDUCER IS ENCOURAGED.
- ACCEPTABLE DELIVERY SYSTEMS: BOOM PUMP WITH REDUCER HOSE OR TRAILER PUMPS, HYDRAULIC OVERFRAMING WITH MINIMUM OPENINGS LEFT FOR ATTIC VENTILATION AND ACCESS. TRAILER PUMPS WITH 3" HOSE REDUCED TO 2" ARE RECOMMENDED. FILLING TO HEIGHT OF 4' TO 5' ON THE FIRST LIFT IS RECOMMENDED HOWEVER WITH THE PROPER DELIVERY SYSTEM WALLS CAN BE FILLED TO THE BOTTOM OF THE BOND BEAM IN ONE LIFT. IT IS RECOMMENDED THAT THE BOND BEAM AT THE TOP OF WALL BE FILLED IN ONE CONTINUOUS POUR. IF POSSIBLE, START POUR IN THE MIDDLE SECTION OF A WALL, AWAY FROM CORNERS AND OPENINGS.
- PROPER MIX AND DELIVERY WILL MINIMIZE THE RISK OF VOIDS; HOWEVER IT IS RECOMMENDED THAT AN STUDS @ 24" O.C. (U.N.O.). EXTERNAL WALL VIBRATOR BE USED TO ENSURE PROPER CONSOLIDATION. PENCIL VIBRATORS MAY BE UTILIZED WITH CARE. VIBRATION OF VERTICAL REBAR IS NOT RECOMMENDED AS IT MAY HAVE A TENDENCY TO SEPARATE THE AGGREGATE FROM THE CONCRETE AT THE BOTTOM OF THE WALL.
- FILL PORTS ARE PROVIDED AT THE SILLS OF WINDOW OPENINGS. PLACE CONCRETE WITHIN THESE AREAS AS THE POUR PROGRESSES AND TROWEL FLUSH. DO NOT WAIT UNTIL THE END OF THE POUR TO LEVEL OF THESE AREAS OR THE CONCRETE MAY BECOME TOO STIFF TO WORK.
- ALLOW CONCRETE TO ATTAIN A MINIMUM OF 2500 PSI OR A MINIMUM OF 24 HOURS BEFORE REMOVING WINDOW AND DOOR BUCKS.
- SHOULD THE WALL FORM SYSTEM BREAKOUT DURING A POUR, STOP THE POUR IN THE AREA OF THE BREAKOUT AND REMOVE ANY EXCESS CONCRETE, REPLACE AS MUCH OF THE RUPTURED FOAM AS POSSIBLE AND COVER THE AREAS WITH A ¾" PLYWOOD PANEL SECURED TO ADJACENT VERTICAL WEBS WITH DRYWALL SCREWS. PLYWOOD SHOULD BE AT LEAST 4X LARGER THAN THE RUPTURE IN ALL DIRECTIONS. PLACE A 2X4 KICKER FROM THE CENTER OF THE PLYWOOD TO THE FLOOR OR GROUND AT A 45 DEGREE ANGLE AND SECURE AT EACH END. CONTINUE POUR.
- REFER TO THE MECHANICAL, PLUMBING AND ELECTRICAL PLANS FOR PLACEMENT OR PENETRATIONS OF ICF WALLS. WALL CONTRACTOR TO COORDINATE WITH TRADES TO ENSURE PROPER LOCATIONS AND SIZES ARE MAINTAINED.

SEE FRAMING & FOUNDATION PLANS FOR ADDITIONAL ICF NOTES

# FOUNDATION NOTES

BLOCK UNITS SHALL BE GRADE "N-1", FM=1350 PSI, AND SHALL CONFORM TO ASTM C-90 OR MOST RECENT

GROUT SHALL BE TYPE "S" AND SHALL CONFORM TO ASTM C-270 WITH AN ULTIMATE COMPRESSIVE STRENGTH OF 1800 PSI AT 28 DAYS.

MORTOR SHALL BE TYPE "S" AND SHALL CONFORM TO ASTM C-270 WITH AN ULTIMATE COMPRESSIVE STRENGTH

VERTICAL REINFORCING IN MASONRY SHALL BE AT CENTER OF GROUTED CELL, CONTINUOUS FULL HEIGHT OF WALL AS FOLLOWS: # 4 AT 48" OC MINIMUM IN ALL EXTERIOR AND INTERIOR WALLS. #4 AT ALL CORNERS, WALL ENDS, INTERSECTIONS WITH/ STUD BEARING WALLS, AND AT JAMBS AROUND ALL OPENINGS, TYPICAL UNLESS OTHERWISE NOTED ON DETAILS AND DRAWINGS.

HORIZONTAL REINFORCING IN MASONRY SHALL BE TWO #4'S IN MINIMUM 8" DEEP CONTINUOUS GROUTED BOND BEAM AT FLOOR AND ROOFLINES. USE HORIZONTAL WIRE "LADDER" TYPE DESIGN (DUR-O-WIRE) AT 16" OC. PROVIDE BENT CORNER BARS TO MATCH AND LAP HORIZONTAL REINFORCING. TIE INTERSECTIONS OF BOTH BLOCK WALLS AND FOUNDATIONS STEM WALLS.

PROVIDE DOWELS FROM FOOTINGS TO MATCH VERTICAL REINFORCING IN WALL AND COLUMNS. PROVIDE CORNER BARS TO MATCH AT ALL HORIZONTAL REINFORCING.

ALL CELLS WITH REBAR TO BE GROUTED SOLID.

## FRAMING NOTES

### TRUSSES:

TO BE MANUFACTURED BY CITY AND STATE APPROVED FABRICATOR (AS REQUIRED BY GOVERNING MUNICIPALITY) DESIGN SHALL BE SUBMITTED & SEALED BY AN ENGINEER REGISTERED IN THE STATE WHERE THE PROJECT IS TO BE BUILT.

#### SHEATHING:

ROOF SHEATHING SHALL BE 1/2" STD. GRADE SHEATHING (5-PLY) w/ EXTERIOR GLUE, SPAN INDEX RATIO 32/16 W/ STAMP OF APPROVED TESTING AGENCY OR ORIENTED STRAND BOARD (NER-108).

ALL ROOF SHEATHING SHALL HAVE: 8d COMMON @ 6" O.C. AT EDGES AND BOUNDARY, 8d @ 12" O.C. AT INTERMEDIATE FRAMING MEMBERS, OR 14 GA. x 1-3/4" LONG x 7/16" O.D. CROWN GALVANIZED WIRE STAPLES AT 6" SOLID GROUT ALL MASONRY CELLS WITH REBAR. O.C. @ EDGES & BOUNDARY, AT 12" O.C. AT INTERMEDIATE (NER-272).

FLOOR SHEATHING TO BE 3/4" TONGUE AND GROOVE UNDERLAYMENT. (48/24) GROUP 1 W/ EXTERIOR GLUE WITH STAMP OF AN APPROVED TESTING AGENCY OR ORIENTED STRAND BOARD (NER-108).

ALL FLOOR SHEATHING SHALL HAVE: 10D NAILS AT 6" O.C. AT EDGES AND BOUNDARY, 10" O.C. AT INTERMEDIATE

#### GLU-LAM BEAMS:

- ALL GLU-LAM BEAMS SHALL COMFORM TO 1991 N.D.S. STANDARDS.
- 24F-V4 FOR SIMPLE SPANS, 24F-V8 FOR CONTINUOUS AND CANTILEVERS VISUALLY GRADED WESTERN SPECIES DOUGLAS FIR/HEM FIR WITH THE FOLLOWING
- Fb = 2400 PSI, Fv = 165 PSI, Fc (PERP) = 650 PSI, E = 1,600,000 PSI.
- FABRICATION AND HANDLING PER AITC AND WCLA STANDARDS
- ADHESIVE FOR INTERIOR BEAMS, WATER RESISTANT GLUE ADHESIVE FOR PART OR FULL BEAM
- EXPOSED DIRECTLY TO RAIN. WATER-PROOF GLUE BEAMS TO BEAR AITC STAMP AND CERTIFICATE AND GRADE STAMP.
- STANDARD CAMBER R = 2000' U.N.O.

E70xx LOW HYDROGEN RODS

#### **ROOF FRAMING PLAN NOTES** ROOFING CONTRACTOR SHALL BE SOLELY RESPONSIBLE TO VERIFY ON-SITE MEASUREMENTS AND CONDITIONS.

- BRACE IN 10 LINEAR FEET OF WALL IS RECOMMENDED ALONG WITH BRACING AT ALL CORNERS IN BOTH

  ALL TRUSSES TO BE FABRICATED BY AN APPROVED MANUFACTURER, AND SHALL CONFORM TO U.B.C. STANDARD
  - ALL TRUSSES SHALL HAVE A ROOF SLOPE AS INDICATED BY ARROWS ON THE ROOF FRAMING PLAN, UNLESS NOTIFIED OTHERWISE.
  - ALL INTERIOR CEILINGS TO BE FLAT, WITH HEIGHTS NOTED ON THE FLOOR PLAN.
  - ELEVATION OF THE TOP OF THE DOUBLE PLATE AS NOTED ON THE ARCHITECTURAL PLANS

MINIMUM OF 48 BAR DIAMETERS. STAGGER SPLICES A MINIMUM OF 48 BAR DIAMETERS. PROVIDE BENT GENERAL CONTRACTOR SHALL HAVE THE OPTION OF USING MANUFACTURED STANDARD TRUSSES @24" O.C., OR JACK TRUSSES @ 24" O.C.

ROOF SHEATHING: ALL ROOF FRAMING SHALL BE COMPLETELY SHEATHED AND NAILED EVEN UNDER ALL

JOIST HANGERS AND OTHER MISCELLANEOUS FRAMING ANCHORS SHALL BE AS MANUFACTURED BY SIMPSON COMPANY OR APPROVED EQUAL.

ALL EXT. BEARING WALLS TO BE 2x6 @ 16" O.C. - INT. BEARING TO BE 2x4 STUDS @ 16" O.C. - INT. NON-BEARING

ALL BEARING PARTITIONS TO HAVE DOUBLE TOP PLATES.

ROOF AND FLOOR PLYWOOD SHEATHING PANEL EDGES SHALL BEAR ON FRAMING MEMBERS AND BUTT ALONG THEIR CENTER LINES w/ PANEL EDGES STAGGERED & FACE GRAIN PERPENDICULAR TO SUPPORT.

FIRE STOPS SHALL BE PLACED IN ALL CONCEALED SPACES IN WALLS, @ FURRED SPACES & @ FLOOR/CEILING LEVELS AS SO NO CONCEALED SPACE EXCEEDS 10'-0"

USE DOUBLE STUDS UNDER BEARING POINTS OF GIRDER & BEAMS U.N.O. ON PLANS.

ALL FRAMING MEMBERS SHALL BE BLOCKED AND BRIDGED PER I.R.C.

USE SIMPSON H2.5 @ EA. TRUSS/JOIST AND EVERY OTHER STUD. IF SPAN EXCEEDS 22'-0" AT UNCLOSED AREAS AND GARAGES, USE ONE ANCHOR PER TRUSS/JOIST AND ONE ANCHOR PER STUD. FRAMING ANCHOR OF TYPE THAT ENGAGES BOTH PLATES ( FRAMING ANCHOR AT STUD MAY BE OMITTED IF PLYWOOD OR EQUAL SHEATHING IS USED WITH NAILS TO TOP PLATE, EXCEPT UNCLOSED AREAS AND GARAGE. )

2x4 WOOD POST w/ KING STUD AT EACH END OF ALL EXTERIOR DOOR AND WINDOW OPENINGS

### STRUCTURAL STEEL

ASTM A - 36, Fy = 36 KSI, STRUCTURAL TUBES SHALL BE ASTM A -500 (Fy-46 KSI)

BOLTS - ASTM A - 307, LATEST AISC AND AWS CODES APPLY, ALL CONSTRUCTION PER LATEST AISC HANDBOOK. MIN. EMBEDMENT OF ALL BOLTS IN MASONRY, GROUT OR CONC. TO BE 7" U.N.O. ON PLANS.

ALL EXPANSION BOLTS TO BE "RED HEAD, ESR-2251" OR "HILTI, ESR-2302" WITH A 360 EXPANSIVE WEDGING

SEE DETAILS, PLANS OR STRUCTURAL CALCULATIONS FOR SIZES

REINFORCING BARS TO BE #4'S (UNLESS OTHERWISE NOTED) AND TO CONFORM TO THE REQUIREMENTS ALL METAL OF THE "STANDARD SPECIFICATION ASTM 615 GRADE 40 (FY=40 KSI) DEFORMED BARS FOR #4'S AND SMALLER.

WELDED WIRE FABRIC MESH TO COMPLY WITH ASTM A185.

ALL WORK SHALL COMPLY WITH THE ACI CODE AND DETAILING MANUAL.

ASTM A615 GRADE 60 (FY=60 KSI) DEFORMED BARS FOR #5 AND LARGER, SEC 2614.

ALL REINFORCING BARS TO BE ANCHORED AND SPACED FROM THE FORMS (UNLESS OTHERWISE NOTED) AS FOLLOWS: "

MAXIMUM SPACING OF HORIZONTAL BARS IN STEM WALLS TO BE 12" OC. SEE DETAILS AS CODED.

BEAMS AND COLUMNS, 3/4" IN PROTECTED WALLS AND SUSPENDENED SLABS, 2" IN UNPROTECTED WALLS, 3" ABOVE BOTTOM OF FOOTINGS.

HERE 6X6 WELDED WIRE MESH IS RECOMMENDED, SLABS ARE TO BE 4" THICK AND HAVE CHAIRS AT 3'-0" OC EACH WAY/

ALL SPLICES IN CONTINUOUS REIFORCING BARS ARE TO BE LAPPED A MINIMUM OF 40 BAR DIAMETERS

TO HOLD MESH 1" FROM BOTTOM OF SLAB.

#### ALL WALLS ARE TO BE SHORED PRIOR TO BACKFILLING

HORIZONTAL REINFORCING BARS TO BE CONTINUOUS AROUND THE CORNERS OR HAVE CORNER REBAR DOWELS.

- LINTELS SHALL BE "POWERS" STEEL LINTELS OVER MASONRY OPENINGS.
- MASONRY VENEER SHALL BE ANCHORED PER ON OF THE METHODS SPECIFIED IN THE CURRENT ADOPTED CODE WITH A MINIMUM OF ONE 22 GA. GALVANIZED METAL ANCHOR FOR EACH TWO SQUARE FEET OF WALL AREA.

#### PROVIDE FOR THE FOLLOWING:

- TEE (AS REQ'D.) w/ CAPPED STUB OUT TO FRONT HOSE BIB. TEE TO BE INSTALLED ON THE STREET SIDE OF THE SHUT OFF VALVE
- P.V.C. SLEEVE(S) UNDER DRIVEWAY & SIDEWALKS AS REQUIRED BY OWNER. EXPANSION JOINTS @ 34'-0" O.C. MAX. & SHALL NOT BE PLACED UNDER ANY TILE FLOOR

A MINIMUM OF 95% OF MAXIMUM DENSITY.

ALL EXCAVATION, FILL, COMPACTION AND SOIL RELATED OPERATIONS SHALL BE PERFORMED ACCORDING TO SOILS CONSULTANT'S RECOMMENDATIONS (WHEN AVAILABLE).

FIN. FLR. ELEVATIONS SHALL BE AMIN. OF 6" ABOVE THE FIN. GRADE WITH THE FINISHED GRADE SLOPING AWAY FROM THE HOME A MIN. OF 5% FOR A DISTANCE OF 10'-0"

TREAT ALL AREAS UNDER FLOOR SLAB ON GRADE AND ADJACENT TO ALL STEM WALLS FOR TERMITE PROTECTION. PROVIDE A WRITTEN 5-YEAR GUARANTEE AGAINST TERMITE INFESTATION, TO BEGIN AT DATE OF SUBSTANTIAL COMPLETION.

PLUMBING TRENCH BACKFILL SHOULD BE MOISTURE CONDITIONED & COMPACTED TO 85% MIN. DENSITY.

### **FOUNDATIONS**

ALL FOUNDATIONS AND FOOTINGS TO BE INSTALLED ON VIRGIN UNDISTURBED SOILS WITH ORGANIC MATERIAL REMOVED TO A DEPTH OF 18" BELOW BOTTOM OF FOOTING AND COMPACTED OR EXISTING TO 95% MAXIMUM DENSITY AS CLASSIFIED BY A SOIL INVESTIGATION OR IN ACCORDANCE WITH ASTM D 2487 & 2012 IBC TABLE

FOOTINGS SHALL BE INSTALLED A MINIMUM OF 1'-6" BELOW FINISH GRADE WHEN ON FIRM UNDISTURBED SOIL OR ON AN ENGINEERED PAD CERTIFIED BY AN INDEPENDENT SOILS LABRATORY. FOOTINGS INSTALLED UNDER

EITHER CONDITION SHALL NOT BE LESS THAN 1'-6" BELOW FINAL ADJACENT EXTERIOR GRADE. ALL BACKFILL UNDER AND WITHIN 5'-0" OF ALL BUILDINGS SHALL BE COMPACTED TO A MINIMUM OF 90% OF MAXIMUM DENSITY BACKFILL DIRECTLY UNDER FOOTINGS AND WITHIN 2'-0" EACH SIDE SHALL BE COMPACTED TO

IF ANY UNSTABLE OR COLLAPSIBLE OR OTHERWISE POOR SOIL CONDITIONS ARE DISCOVERED DURING EXCAVATION. A SOILS ENGINEER SHOULD BE NOTIFIED IMMEDIATELY FOR A SOILS STUDY.

SOIL BEARING CAPACITY VALUE USED SHALL BE 1500 PSF, UNLESS SOILS ENGINEERING REPORT INDICATES

MINIMUM EXPOSED FOUNDATION WALL ABOVE FINISH GRADE TO BE 6".

INTERIOR BEARING FOOTINGS SHALL NOT BE PLACED OVER ANY TRENCHES.

P.V.C. SLEEVES THROUGH STEM WALL AS REQUIRED AT EACH CONDENSER LOCATION WATERPROOF WITH BITUMINOUS MEMBRANE WATERPROOFING OR EQUAL OVER FOUNDATION WALL WITH WP

### CONCRETE

COMPRESSIVE STRENGTH OF ALL CONCRETE SHALL BE EQUAL TO AT LEAST 2500 PSI (LBS PER SQUARE INCH) WITHIN 28 DAYS AFTER POURING FOOTINGS, STEM & FOUNDATION WALLS AND INTERIOR SLABS ON GRADE. FULL BASEMENT WALLS TO BE 2500 PSI. 3000 PSI MINIMUM EXTERIOR FLATWORK.

SUBMIT CONCRETE MIX DESIGNS TO GENERAL CONTRACTOR FOR APPROVAL PRIOR TO ANY POUR WHERE REQUIRED. MINIMUM CONCRETE MIX 1:3:4.

CEMENT SHALL BE GREY PORTLAND TYPE II, LOW ALKALINE, SLUMP SHALL BE 3 TO 4 MAXIMUM FOR STEM WALLS

AND FOOTINGS, 4 TO 5 MAXIMUM FOR WALLS AND SLABS ON GRADE IN ANY MIX DESIGN.

EXTENSIONS 4' OUT FROM BUILDING.

FLYASH CONTENT SHALL NOT EXCEED 20% ALL CONCRETE WORK SHALL COMPLY WITH "A.C.I." STANDARD SPECIFICATION FOR STRUCTURAL CONCRETE FOR BUILDING." (A.C.I. 301-72; MOST RECENT REVISION.)

MINIMUM SLAB ON GRADE THICKNESS SHALL BE 4" WITH THICKENED EDGES.

SEE FOUNDATION PLANS FOR ADDITIONAL STRUCTURAL NOTES

STRUCTURAL NOTES ROBERT KLOB FOUNDATION NOTES

### DESIGN CRITERIA

FLOOR DEAD LOAD

ALL CONSTRUCTION SHALL CONFORM TO THE 2012 EDITION OF THE INTERNATIONAL BUILDING CODE.

ROOF LIVE LOAD = 20 PSF (REDUCIBLE)

ROOF DEAD LOAD 16 PSF (SHINGLE ROOF); 24 PSF (CONCRETE TILE ROOF) FLOOR LIVE LOAD = 40 PSF

BASIC WIND SPEED - 90 MPH (3 SEC GUST.) EXPOSURE - "C" **IMPORTANCE FACTOR - "1.0"** 

#### GENERAL STRUCTURAL NOTES:

DETAILS AND NOTES ON DRAWINGS SHALL TAKE PRECEDENCE OVER STRUCTURAL NOTES AND TYPICAL DETAILS. WHERE NO SPECIFIC DETAILS ARE SHOWN, CONSTRUCTION SHALL CONFORM TO SIMILAR WORK ON THE PROJECT.

DO NOT SCALE DRAWINGS. VERIFY ALL DIMENSIONS WITH ARCHITECTURAL DRAWINGS PRIOR TO START OF CONSTRUCTION - RESOLVE ANY VARIANCES WITH ROBERT KLOB DESIGNS, INC. FOR CLARITY, ALL WALL, FLOOR AND ROOF OPENINGS MAY NOT BE SHOWN ON STRUCTURAL DRAWINGS. FOR EXACT WEIGHT, LOCATION, SIZE AND NUMBER OF OPENINGS, EQUIPMENTS, DUCT, ETC., SEE THE ARCHITECTURAL, ELECTRICAL, MECHANICAL, AND PLUMBING DRAWINGS. FOR FRAMING AT OPENINGS. SEE TYPICAL STRUCTURAL DETAILS. DETAILS MARKED "TYPICAL" MAY OR MAY NOT BE CUT ON PLANS, BUT SHALL APPLY UNLESS NOTED OTHERWISE.

THE CONTRACTOR SHALL TAKE ALL NECESSARY MEASURES TO PROTECT THE STRUCTURE DURING CONSTRUCTION, INCLUDING, BUT NOT LIMITED TO, SHORING, BRACING, ETC. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN AND IMPLEMENTATION OF ALL SHORING, BRACING, AND SCAFFOLDING, OBSERVATION VISITS OR SPECIAL INSPECTION TO THE SITE BY THE STRUCTURAL ENGINEER SHALL NOT INCLUDE INSPECTION OF THE ABOVE ITEMS. THE STRUCTURAL ENGINEER OR ROBERT KLOB DESIGNS, INC. WILL NOT BE RESPONSIBLE FOR THE CONTRACTOR'S MEANS, METHODS, TECHNIQUES. SEQUENCES OR PROCEDURES OF CONSTRUCTION SITE SAFETY. OR THE SAFETY PRECAUTIONS AND PROGRAMS.

. CONSTRUCTION MATERIALS SHALL BE SPREAD OUT IF PLACED ON FRAMED ROOF OR FLOORS. THE LOAD SHALL NOT EXCEED THE DESIGN LIVE LOAD PER SQUARE FOOT. . THE CONTRACT STRUCTURAL DRAWINGS REPRESENT THE FINISHED STRUCTURE. THEY DO NOT INDICATE THE MEANS OR METHOD OF CONSTRUCTION.

6. THE STRUCTURAL ENGINEER AND/OR ROBERT KLOB DESIGNS, INC. ACCEPTS NO RESPONSIBILITY FOR EXISTING SOIL CONDITIONS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE SOIL BEARING PRESSURE AND TO DETERMINE WHETHER UNSUITABLE SOIL CONDITIONS EXIST (I.E. EXPANSIVE OR COLLAPSIBLE SOILS, LOOSE FILL, ETC.)

PROVIDE BENT CORNER BARS TO MATCH AND LAP HORIZONTAL REINFORCING AT INTERSECTIONS AND CORNERS IN CONCRETE FOOTINGS AND STEM WALLS.

. ALL NAILS SHALL BE COMMON NAILS. ALL NAILING NOT NOTED SHALL BE ACCORDING TO FASTENING SCHEDULE IN TABLE 2304.9.1 OF THE INTERNATIONAL BUILDING CODE. SIZE AND NUMBER OF NAILS IN JOIST HANGERS AND MISCELLANEOUS FRAMING ANCHORS SHALL BE ACCORDING TO THE MANUFACTURER'S LATEST CATALOG. PREFABRICATED WOOD TRUSSES SHALL BE DESIGNED BY A CIVIL OR STRUCTURAL ENGINEER

REGISTERED IN THE STATE WHERE THE PROJECT IS LOCATED. THE DESIGN LOADS ARE STATED ON THE DRAWINGS OR STRUCTURAL CALCULATIONS. PROVIDE ADDITIONAL TRUSSES AS REQUIRED TO SUPPORT MECHANICAL EQUIPMENT. SHOP DRAWINGS AND CALCULATIONS SHALL BE STAMPED BY A CIVIL OR STRUCTURAL ENGINEER REGISTERED IN THE STATE AND SHALL BE SUBMITTED TO THE STRUCTURAL ENGINEER & ROBERT KLOB DESIGNS, INC. FOR REVIEW PRIOR TO FABRICATION.

#### MATERIALS SPECIFICATIONS:

BOLTS IN WOOL ASTM A307

#### ANCHOR RODS (ANCHOR BOLTS ASTM F1554 GR 36

MANUFACTURER RECOMMENDATIONS (ICC ESR-5208).

ALL THREAD ROD GR36 WITH SIMPSON SET EPOXY - INSTALL ALL THREAD ROD INTO FOUNDATION PER THE EPOXY

#### WWPA OR WCLIB STAMPED, 19% MAXIMUM MOISTURE CONTENT, DOUGLAS FIR-LARCH OF THE FOLLOWING GRADES: TYPICAL U.N.O. - #2

 6 X POSTS AND BEAMS - #1 2 X WALL STUDS - STUD GRADE OR BETTER

DOUGLAS FIR-LARCH 24F COMBINATION WITH Fb = 2400 PSI, Fv = 165 PSI, Fc (PERPENDICULAR) = 650 PSI AND E = 1,800,000 PSI MINIMUM.

APA STAMPED WITH AN EXTERIOR OR EXPOSURE 1 DURABILITY CLASSIFICATION NAILED WITH COMMON NAILS.

SUBSTITUTED FOR PLYWOOD. LAY-UP PLYWOOD WITH LONG DIMENSION PERPENDICULAR TO SUPPORTS AND

#### APA RATED SHEATHING (I.E. WAFERBOARD AND ORIENTED STRAND BOARD) CONFORMING TO NER-108 AND WITH THE EQUIVALENT EXPOSURE DURABILITY CLASSIFICATION, THICKNESS AND SPAN INDEX RATIO MAY BE

STAGGER JOINTS. PROVIDE PLYCLIPS AT MIDSPAN OF UNSUPPORTED EDGES. THICNESSSPAN INDEX EDGENAILING INTERMEDIATE NAILING 32/16 8d AT 6" O.C 8d AT 12" O.C.

### WALL 3/8" OR 15/ 2 24/0 SEE SHEARWALL SCEDULE

FLOOR 3/4"T&G

BOARD SEALED WITH THOROSEAL OR EQUAL. BACKFILL WITH POROUS MATERIAL, SAND, PEASTONE FULL HGT, 4" DIFFERED SUBMITTAL: DIA. PERFORATED PVC DRAIN PIPE ENTIRE PERIMETER AND DISCHARGE TO DAYLIGHT GUTTER AND DOWNSPOUT CERTAIN COMPONENTS OF THIS PROJECT ARE DEFERRED SUBMITTAL ITEMS AS DEFINED BY 2012 IRC. SUBMITTAL DOCUMENTS FOR DEFERRED SUMITTAL ITEMS SHALL BE SUBMITTED TO THE ENGINEER OF RECORD WHO SHALL REVIEW THEM AND FORWARD THEM TO THE BUILDING OFFICIAL WITH A NOTATION INDICATING THAT THE DEFERRED SUBMITTAL DOCUMENTS HAVE BEEN REVIEWED AND THAT THEY HAVE BEEN FOUND TO BE IN GENERAL CONFORMANCE WITH THE DESIGN OF THE BUILDING. DEFERRED SUBMITTAL ITEMS SHALL NOT BE INSTALLED UNTIL THEIR DESIGN AND SUBMITTAL DOCUMENTS HAVE BEEN APPROVED BY THE BUILDING OFFICIAL.

40/20 10d AT 6" O.C. 10d AT 12" O.C.

DEFERRED SUMITTAL ITEMS ARE LISTED BELOW. A. PREFABRICATED WOOD TRUSSES.

B. PRECAST CONCRETE ELEMENTS.

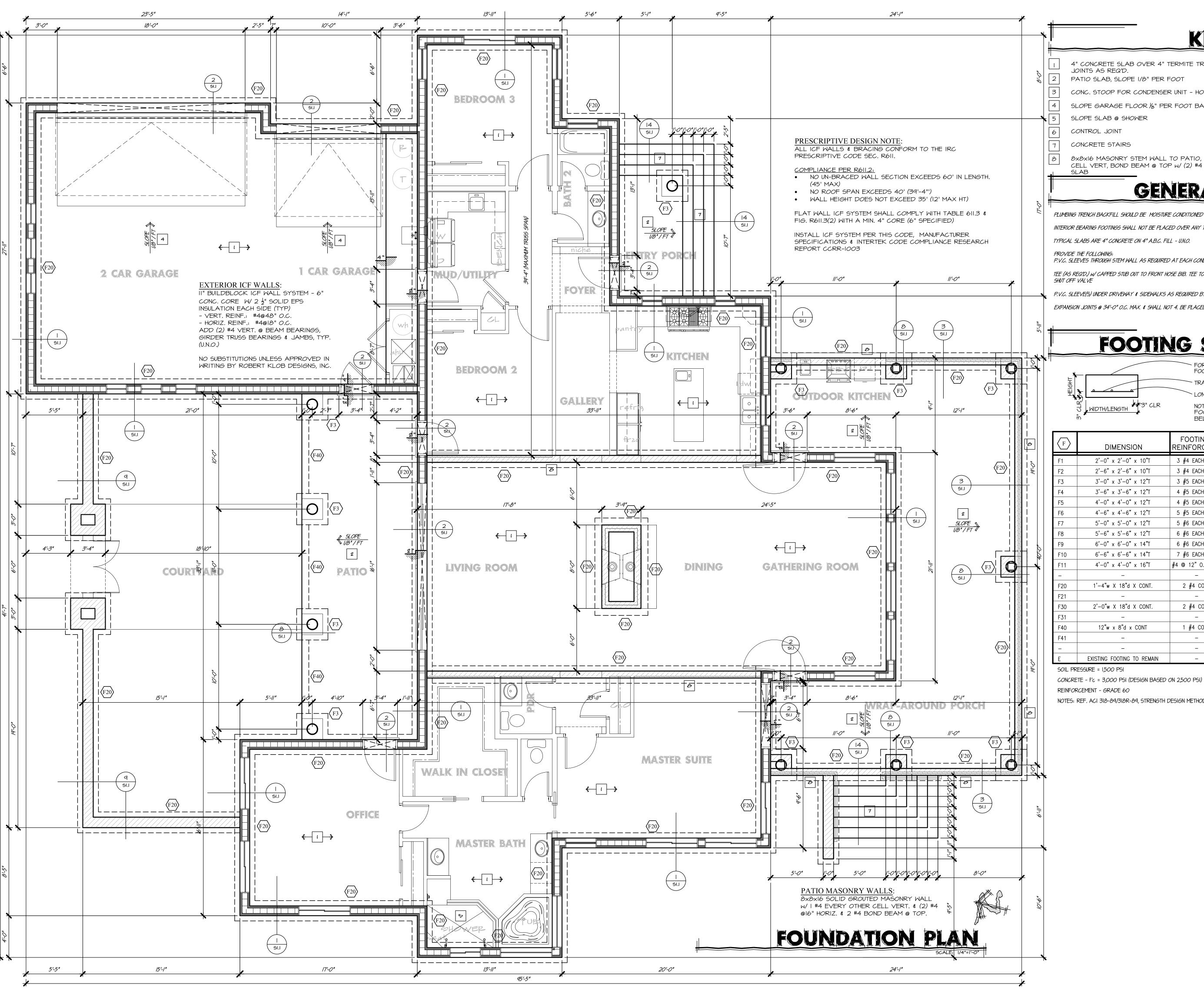
<u>SEE PLANS FOR ADDITIONAL INFORMATION AND CLARIFICATION</u>

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ROBERT KLOB DESIGNS, INC.

4" CONCRETE SLAB OVER 4" TERMITE TREATED ABC, SAWCUT

PATIO SLAB, SLOPE I/8" PER FOOT

CONC. STOOP FOR CONDENSER UNIT - HOLD 6" AWAY FROM HOUSE

SLOPE GARAGE FLOOR 1/6" PER FOOT BACK TO FRONT

8x8x16 MASONRY STEM WALL TO PATIO, SOLID GROUT W/ (I) #4 IN EACH CELL VERT, BOND BEAM @ TOP W/ (2) #4 HORIZ. BEND VERTS INTO

# GENERAL NOTES

PLUMBING TRENCH BACKFILL SHOULD BE MOISTURE CONDITIONED & COMPACTED TO 85% MIN. DENSITY

INTERIOR BEARING FOOTINGS SHALL NOT BE PLACED OVER ANY TRENCHES.

TYPICAL SLABS ARE 4" CONCRETE ON 4" A.B.C. FILL - U.N.O.

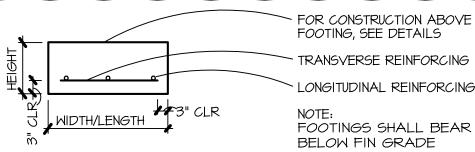
P.V.C. SLEEVES THROUGH STEM WALL AS REQUIRED AT EACH CONDENSER LOCATION

TEE (AS REQ'D.) W/ CAPPED STUB OUT TO FRONT HOSE BIB. TEE TO BE INSTALLED ON THE STREET SIDE OF THE

P.V.C. SLEEVE(S) UNDER DRIVEWAY & SIDEWALKS AS REQUIRED BY OWNERS SPEC.

EXPANSION JOINTS @ 34'-0" O.C. MAX. & SHALL NOT 4. BE PLACED UNDER ANY TILE FLOOR

# FOOTING SCHEDULE



FOOTING, SEE DETAILS TRANSVERSE REINFORCING LONGITUDINAL REINFORCING

FOOTINGS SHALL BEAR @ 18" BELOW FIN GRADE

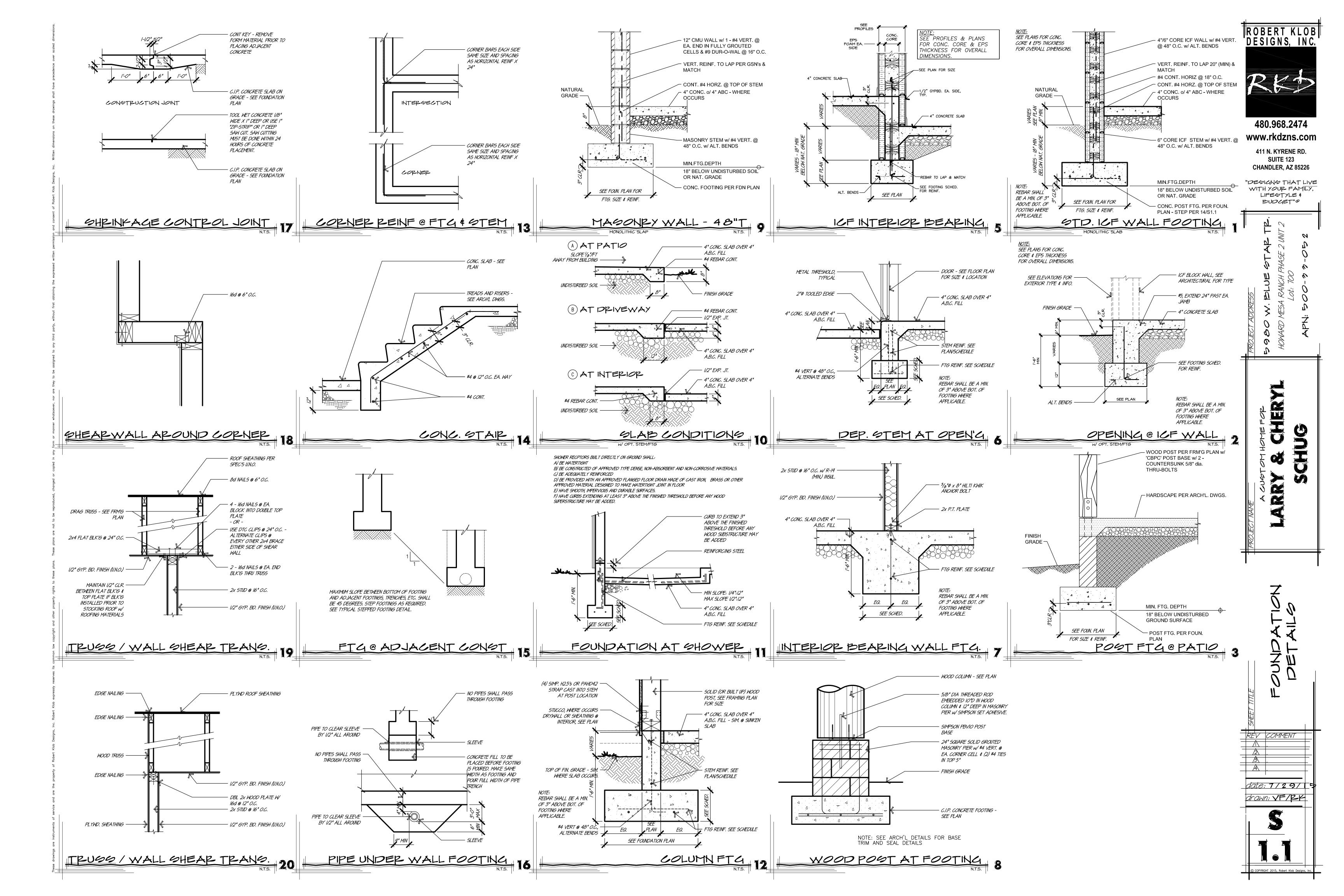
$\langle F \rangle$	DIMENSION	FOOTING REINFORCING	REMARKS
F1	2'-0" x 2'-0" x 10"T	3 #4 EACH WAY	COLUMN FTG.
F2	2'-6" x 2'-6" x 10"T	3 #4 EACH WAY	COLUMN FTG.
F3	3'-0" x 3'-0" x 12"T	3 #5 EACH WAY	COLUMN FTG.
F4	3'-6" x 3'-6" x 12"T	4 #5 EACH WAY	COLUMN FTG.
F5	4'-0" x 4'-0" x 12"T	4 #5 EACH WAY	COLUMN FTG.
F6	4'-6" x 4'-6" x 12"T	5 #5 EACH WAY	COLUMN FTG.
F7	5'-0" x 5'-0" x 12"T	5 #6 EACH WAY	COLUMN FTG.
F8	5'-6" x 5'-6" x 12"T	6 #6 EACH WAY	COLUMN FTG.
F9	6'-0" x 6'-0" x 14"T	6 #6 EACH WAY	COLUMN FTG.
F10	6'-6" x 6'-6" x 14"T	7 #6 EACH WAY	COLUMN FTG.
F11	4'-0" x 4'-0" x 16"T	#4 @ 12" O.C. E.W.	COLUMN FTG.
_	-	_	-
F20	1'-4"w X 18"d X CONT.	2 #4 CONT	WALL FTG.
F21	-	_	-
F30	2'-0"w X 18"d X CONT.	2 #4 CONT	INT. BRG. WALL
F31	_	_	-
F40	12"w x 8"d x CONT	1 #4 CONT	TURN DN. FTG.
F41	-	_	-
	_	_	

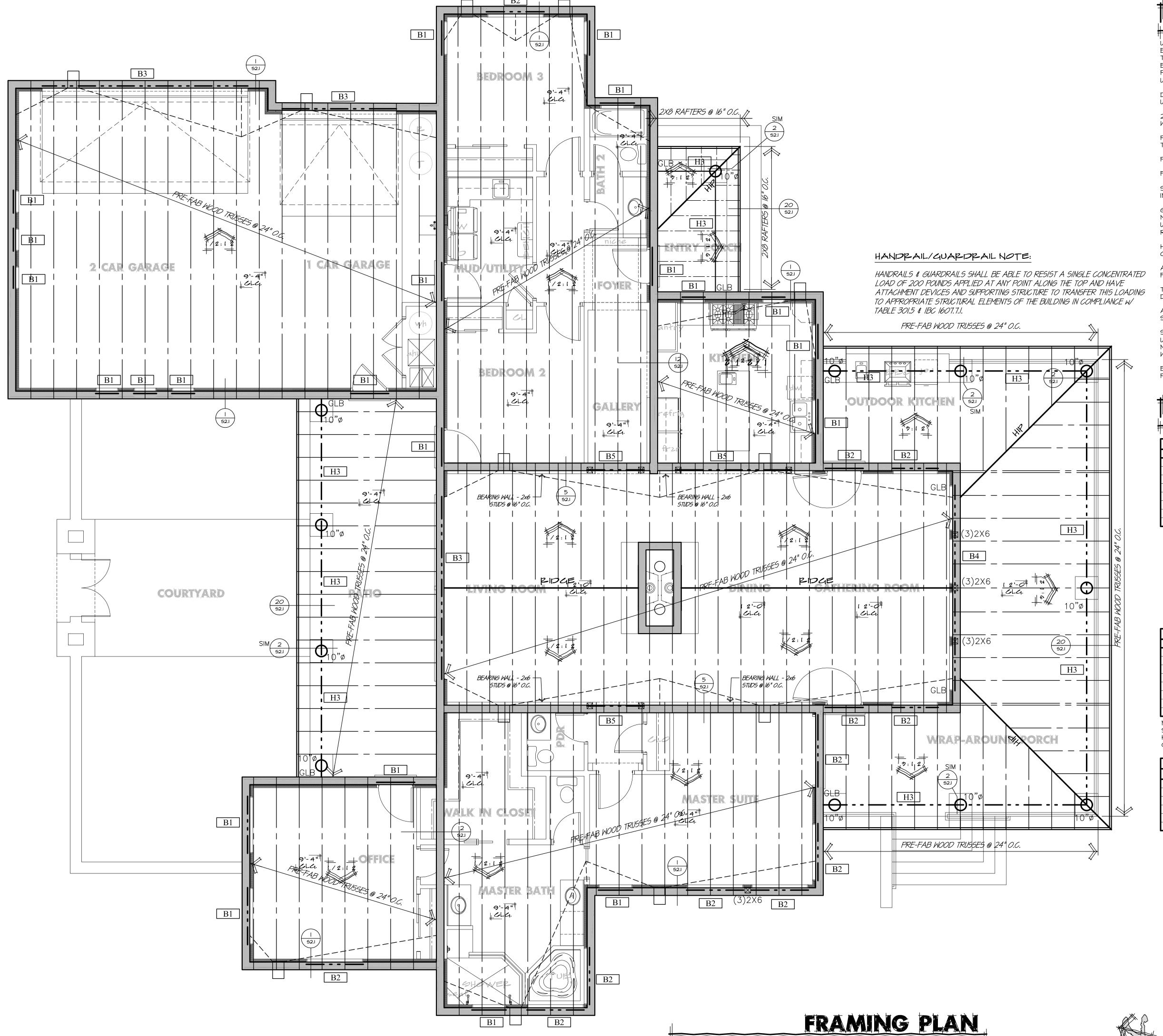
NOTES: REF. ACI 318-89/318R-89, STRENGTH DESIGN METHOD

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USE SIMPSON A35 @ EA. TRUSS/JOIST AND EVERY OTHER STUD. IF SPAN EXCEEDS 22'-O" AT UNCLOSED AREAS AND GARAGES, USE ONE ANCHOR PER TRUSS/JOIST AND ONE ANCHOR PER STUD. FRAMING ANCHOR OF TYPE THAT ENGAGES BOTH PLATES (FRAMING ANCHOR AT STUD MAY BE OMITTED IF PLYWOOD OR EQUAL SHEATHING IS USED WITH NAILS TO TOP PLATE, EXCEPT UNCLOSED AREAS AND GARAGE.)

DOUBLE 2x4 WOOD POST W/ DBL. KING STUD AT EACH END OF ALL BEAMS -

2x4 WOOD POST W/ KING STUD AT EACH END OF ALL EXTERIOR DOOR AND WINDOW OPENINGS

PROVIDE ALL BLOCKING AND BRACING PER ALL APPLICABLE CODES AND/OR TRUSS MFG. SPECIFICATIONS - UNO

PROVIDE 2x4 CEILING JOISTS PER CODE AT ALL AREAS WHERE REQUIRED FLASH ALL CONDITIONS AS REQUIRED

SEE DIMENSION/SHEARWALL PLAN(S) FOR STRUCTURAL ENGINEERING INFORMATION - U.N.O. ON FRAMING PLANS AND/OR TYPICAL DETAILS

GYPSUM BOARD APPLIED TO A CEILING SHALL BE 1/2" WHEN FRAMING MEMBERS ARE 16" O.C. OR 5/8" WHEN FRAMING MEMBERS ARE 24" O.C. OR USE LABELED 1/2" SAG-RESISTANT GYPSUM CEILING BOARD. TABLE R702.3.5(d)

HORZ. DISPLACEMENT MUST BE PROVIDED OR AS PER TRUSS DRAWINGS. CHECK TRUSS LAYOUT SHEET OR CALCS FOR ADDITIONAL INFO.

ALL WOOD PLATES, INTERIOR AND EXTERIOR, TO BE PRESSURE TREATED, OR FOUNDATION REDWOOD.

TRUSSESS TO BE DESIGNED BY AN ARIZONA LICENSED ENGINEER SHOP DRAWINGS TO BE SUBMITTED FOR REVIEW BY RKD PRIOR TO FABRICATION

APPROVED TRUSS DRAWINGS ALONG WITH THEIR LAYOUT MUST BE ON JOB SITE WHEN ROOF SHEATHING INSPECTION IS PERFORMED

SHEAR WALL BELOW - CONTRACTORS OPTION TO EITHER EXTEND WALL TO UNDERSIDE OF ROOF SHEATHING AND NAIL WITH (2) ROWS OF PLYWD EDGE NAILING OR TO EXTEND WALL TO UNDERSIDE OF TRUSS AND CONTINUE SHEAR WALL SHEATHING UP SIDE OF TRUSS TO ROOF SHEATHING.

BLOCK ALL UNSUPPORTED PLYMD PANEL EDGES WITH 2X BLOCKING AND NAIL PLYMD EDGES WITH IOD NAILS @ 4"O.C. - TYPICAL AT AREA INDICATED

# RES

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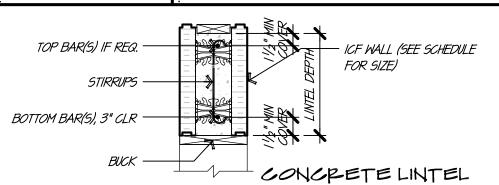
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# BEAM SCHEDULES

	BEAM GOHEDULE								
#	612E	PEINFOR DING/REMARKS							
B1	6"x12" CONC.	(2) #4 CONT. TOP & BOTTOM, 3" CLR. NO STIRRUPS							
B2	6"x18" CONC.	(2) #4 CONT. TOP & BOTTOM, 3" CLR. NO STIRRUPS							
В3	6"x24" CONC.	(2) #4 CONT. TOP & BOTTOM, 3" CLR., #3 STIRRUPS @ 8" O.C.							
B4	5 I/8" x I2 <i>G</i> LB	GLB, CONC. WALL							
B5	5 I/8" x I2 <i>G</i> LB	6x6 POST							
В6									
В7									
B8									



Г	WOOD HEADER GOHEDULE									
	井	612E	PEMARKO							
	H1	(2) 2x6	DOUG FIR #2							
	H2	(2) 2x8	DOUG FIR #2							
	H10	5 I/8 x I2 GLB								

NOTE:
SEE STRUCTURAL CALCS FOR ADDITIONAL INFORMATION FOR ALL BEAMS & HEADERS. NOTES, ANCHORING, BRACING, ETC SHOWN IN CALCS SHALL GOVERN ANY DISCREPANCIES ON THE PLANS.

GIMPGON CONNECTORG				
CONNECTING MEMBERG				
JACK TRUSS TO GIRDER				
GIRDER TRUSS TO GIRDER TRUSS				
TRUSS TO GIRDER TRUSS				
HIP TRUSS TO GIRDER TRUSS				
2 HIP JACKS TO GIRDER TRUSS				

LOOF FRAMINA PLAN

REV COMMENT

A

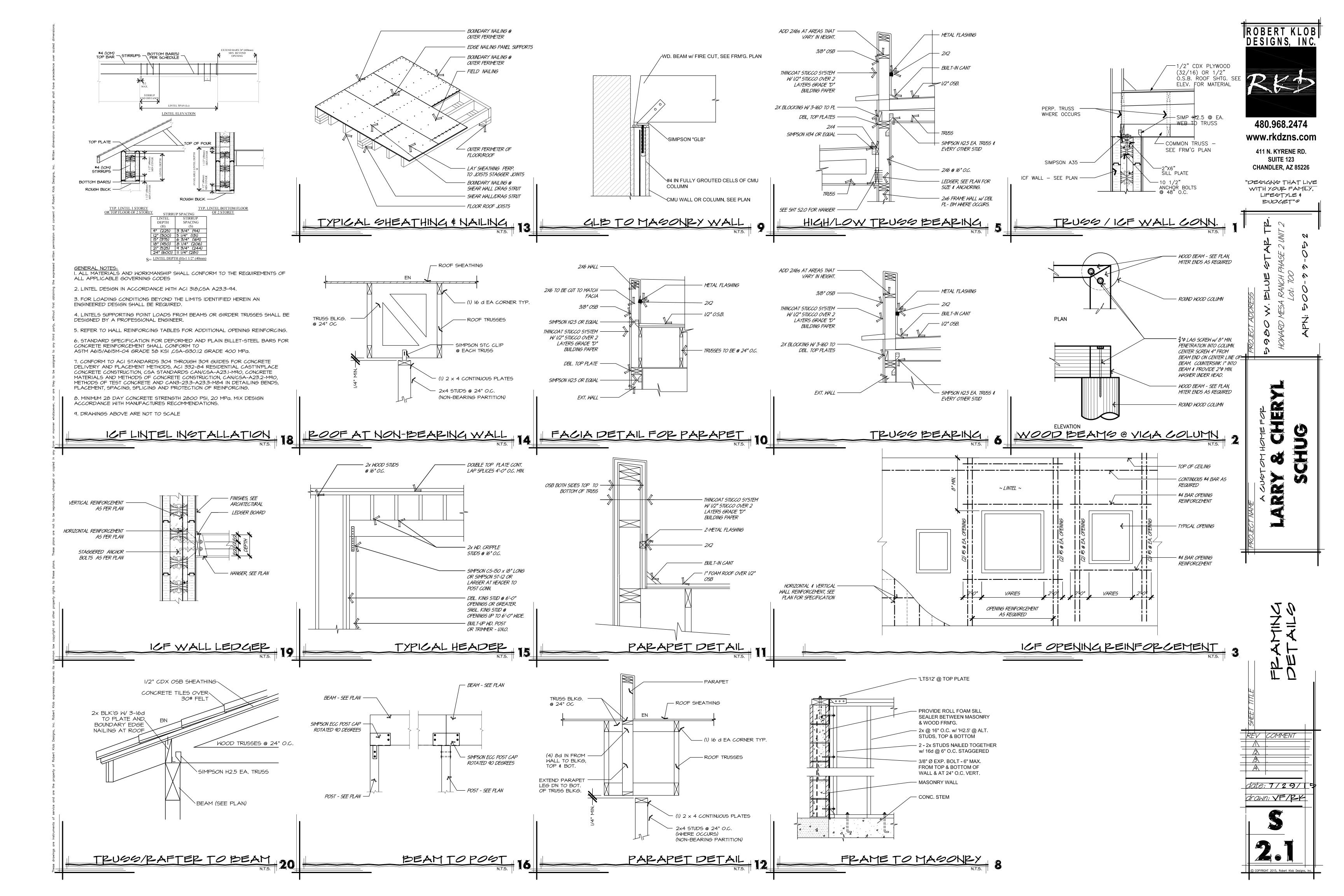
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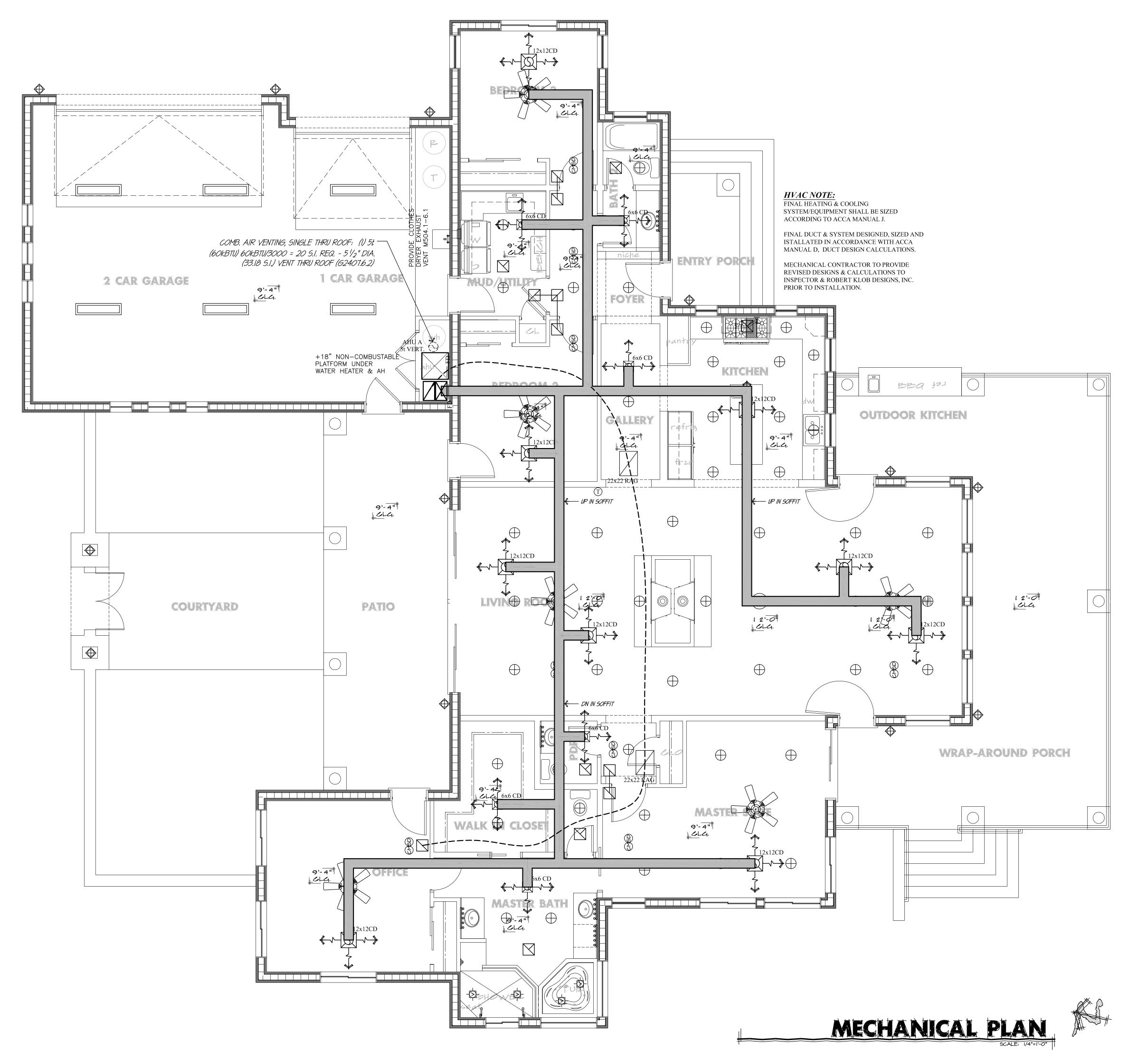
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date: 7/29/15

drawn: VF/PK

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# MECHANICAL NOTES ROBERT KLOB DESIGNS, INC.

MECHANICAL GYGTEM NOTE:

VERIFY WITH MECHANICAL CONTRACTOR EXACT SYSTEM AND CABABILITIES OF THAT SYSTEM PRIOR TO INSTALLATION. MECHANICAL CONTRACTOR TO ENSURE PROPER SIZING, BALANCE AND EFFECIENCY OF SYSTEM BASED ON FINAL EQUIPMENT SUPPLIED. MECHANICAL CONTRACTOR TO RETURN PRIOR TO C. OF. O. TO CLEAN DUCTWORK OF CONSTRUCTION DEBRIS AND RE-BALANCE SYSTEM TO MFR. SPECIFICATIONS.

#### FIREPLACE NOTE:

CONTRACTOR SHALL PROVIDE MANUFACTURERS INSTALLATION INSTRUCTIONS AND COPY OF APPLICABLE ICBO RESEARCH REPORT WILL BE MADE AVAILABLE TO INSPECTOR ON O" CLEARANCE FIREPLACE INSTALLATION PER

8x8 CLG.

**GRILLE** 

CEILING

DIFFUSER

12x18 WALL

→ DIFFUSER

TRANSFER



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**GRILLE** 

**EXHAUST** 

**TANKLESS** 

WATER HTR.

**THERMOSTAT** 

BUDGET"®

(OPT) HRV SYSTEM

WH1

HEAT PECOVERY VENTILATOR (HPV) OYOTEM BROAN MODEL HRVIOOH

VENTILATION UP TO 4,500 S.F.

FLOW RATE: 64-146 CFM TYPE: HRV

EFFICACY (CFM/W): 1.2 (OR OWNER/HVAC CONTRACTOR APPROVED EQUAL)

INSTALL PER MFR. SPECIFICATIONS.

#### HRY NOTES:

I. LOCATE THE FRESH AIR INTAKE AWAY FROM DRIVEWAYS, LAUNDRY & FURNACE VENTS.

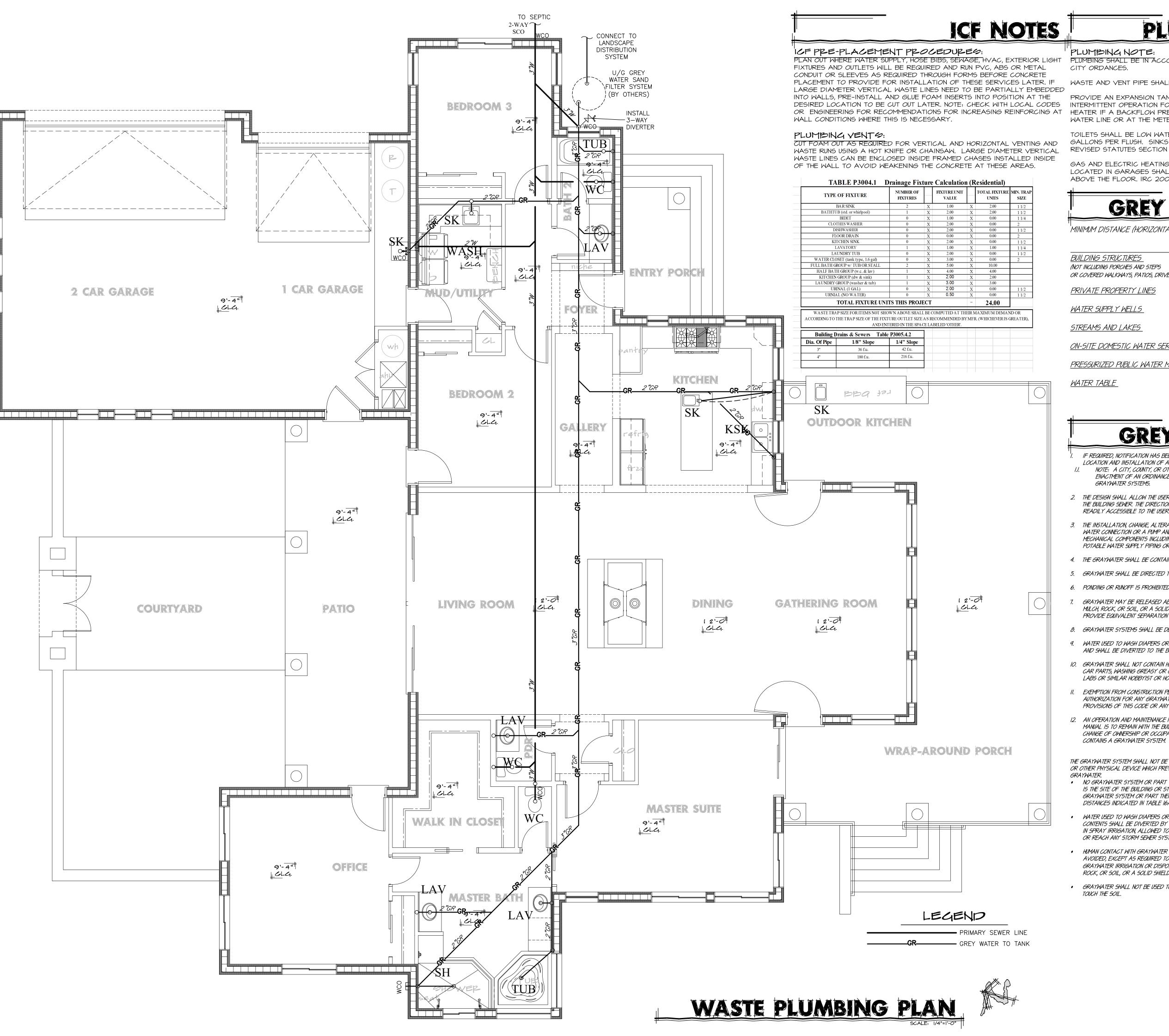
- 2. INSTALL A SUPPLY INLET (DEDICATED INLET OR HEATING REGISTER, IF CONNECTED TO FORCED AIR) FOR EACH BEDROOM AND ONE FOR EACH COMMON AREA.
- 3. INSTALL A RETURN OUTLET IN EACH HIGH MOISTURE AREA SUCH AS THE KITCHEN, UTILITY ROOM AND BATHROOM(S).
- 4. RETURN OUTLETS (PICK UP POINTS) SHOULD BE WITHIN ONE FOOT OF CEILING AND 10 FEET AWAY FROM AN OVEN OR COOKTOP, AS VAPORIZED GREASE COULD CLOG THE ENERGY RECOVERY CORE.
- 5. USE SMOOTH, ROUND DUCTWORK.
- 6. INSULATE INTAKE/EXHAUST AND ANY VENTILATION DUCTS IN UNHEATED SPACES AND SEAL ALL JOINTS.
- 7. INSTALL A DRAIN TO CATCH ANY CONDENSATE, IF REQUIRED.

### GENERAL HRY NOTEO:

FIELD CONDITIONS CAN SIGNIFICANTLY IMPACT THE VENTILATION RATES PROVIDED BY THIS DESIGN. IN TIGHT DWELLINGS, MAKEUP AIR MAY BE REQUIRED FOR EXHAUST-ONLY SOLUTIONS. FOR THIS REASON, RKD RECOMMENDS THAT TECHNICIANS VERIFY THAT THE DWELLING PASS A COMBUSTION APPLIANCE ZONE TEST TO ENSURE THAT OPERATION OF EXHAUST APPLIANCES DO NOT NEGATIVELY IMPACT THE OPERATION OF COMBUSTION APPLIANCES.

THIS DESIGN DOES NOT SPECIFICALLY ADDRESS CONSIDERATIONS FOR COMBUSTION AIR, EQUIPMENT WARRANTY, MOISTURE, OR COMFORT ISSUES WHICH MAY ARISE WITH THE SPECIFICATION OF WHMV. VERIFY WITH LOCAL CODES, RELEVANT STANDARDS, AND MANUFACTURER INSTRUCTIONS FOR FURTHER INFORMATION.

INDOOR COMBUSTION AIR CALCULATION					
IRC - G2407.5.1 (304.5.1) & TABLE G2413.2 (402.2)					
APPLIANCE INFO					
APPLIANCE	APPLIANCE	C.F. PER	MIN. CUBIC		
TYPE	B.T.U.	1,000 B.T.U.	FEET REQ.		
50 GAL WH	50,000.00	50.00	2,500.00		
CC	MBUSTION A	REA (GARA	GE)		
CLEAR	CLEAR	CLEAR	TOTAL AREA		
WIDTH	DEPTH	HEIGHT	CUBIC FT		
20.667	20.000	10.000	4,133.400		
IS AI	REA GREATER 1	THAN MIN REQ:	YES		
NOTES					
1. APPLIANCE TYPE & BTU PER TABLE G2413.2					
2. VERIFYEXACT LOAD IN FIELD WITH APPLIANCE SELECTED.					
3. IF LOAD IS GREATER THAN OPEN AREA, MUST COMPLY WITH G2407.6					



PLUMBING NOTES ROBERT KLOB DESIGNS, INC.

PLUMBING NOTE:

PLUMBING SHALL BE IN ACCORDANCE WITH THE U.P.C. AND ALL APPLICABLE

WASTE AND VENT PIPE SHALL BE ABS PLASTIC P.V.C. SCHEDULE 40

PROVIDE AN EXPANSION TANK OR OTHER DEVICE DESIGNED FOR INTERMITTENT OPERATION FOR THERMAL EXPANSION CONTROL AT THE WATER HEATER IF A BACKFLOW PREVENTER IS ON OR TO BE INSTALLED ON THE WATER LINE OR AT THE METER.

TOILETS SHALL BE LOW WATER USE TYPE, DESIGNED FOR A MAXIMUM OF I.6 GALLONS PER FLUSH. SINKS AND SHOWER HEADS, 3.0 GPM PER ARIZONA REVISED STATUTES SECTION 45-312.

GAS AND ELECTRIC HEATING AND COOLING EQUIPMENT AND WATER HEATERS LOCATED IN GARAGES SHALL BE INSTALLED WITH SOURCE OF IGNITION 18" ABOVE THE FLOOR. IRC 2006 P2801.6

## GREY WATER DESIGN

'MINIMUM DISTANCE (HORIZONTAL) FROM:

BUILDING STRUCTURES NOT INCLUDING PORCHES AND STEPS OR COVERED WALKWAYS, PATIOS, DRIVEWAYS, ETC.)  PRIVATE PROPERTY LINES  1.5  WATER SUPPLY WELLS  5  ON-SITE DOMESTIC WATER SERVICE LINE  O  DESCRIPTION OF SERVICE VALUE OF SERV		IRRIGATION FIELD (FEET)	TANK (FEET)
WATER SUPPLY WELLS  STREAMS AND LAKES  ON-SITE DOMESTIC WATER SERVICE LINE  O  PRESSURIZED PUBLIC WATER MAIN  IO  IO  IO	(NOT INCLUDING PORCHES AND STEPS	2	5
STREAMS AND LAKES  100 50  ON-SITE DOMESTIC WATER SERVICE LINE 0 5  PRESSURIZED PUBLIC WATER MAIN 10 10	PRIVATE PROPERTY LINES	1.5	5
ON-SITE DOMESTIC WATER SERVICE LINE  O  5  PRESSURIZED PUBLIC WATER MAIN  10  10	WATER SUPPLY WELLS	100	50
PRESSURIZED PUBLIC WATER MAIN 10 10	STREAMS AND LAKES	100	50
	ON-SITE DOMESTIC WATER SERVICE LINE	0	5
<u>WATER TABLE</u> 3 FEET ABOVE NA	PRESSURIZED PUBLIC WATER MAIN	10	10
	<u>WATER TABLE</u>	3 FEET ABOVE	NA

## GREY WATER NOTES

IF REQUIRED, NOTIFICATION HAS BEEN PROVIDED TO THE ENFORCING AGENCY REGARDING THE PROPOSED LOCATION AND INSTALLATION OF A GRAYWATER IRRIGATION OR DISPOSAL SYSTEM. NOTE: A CITY, COUNTY, OR OTHER LOCAL GOVERNMENT MAY, AFTER A PUBLIC HEARING AND ENACTMENT OF AN ORDINANCE OR RESOLUTION, FURTHER RESTRICT OR PROHIBIT THE USE OF

- 2. THE DESIGN SHALL ALLOW THE USER TO DIRECT THE FLOW TO THE IRRIGATION OR DISPOSAL FIELD OR THE BUILDING SEWER. THE DIRECTION CONTROL OF THE GRAYWATER SHALL BE CLEARLY LABELED AND READILY ACCESSIBLE TO THE USER.
- 3. THE INSTALLATION, CHANGE, ALTERATION OR REPAIR OF THE SYSTEM DOES NOT INCLUDE A POTABLE WATER CONNECTION OR A PUMP AND DOES NOT AFFECT OTHER BUILDING, PLUMBING, ELECTRICAL OR MECHANICAL COMPONENTS INCLUDING STRUCTURAL FEATURES, EGRESS, FIRE-LIFE SAFETY, SANITATION, POTABLE WATER SUPPLY PIPING OR ACCESSIBILITY.
- 4. THE GRAYWATER SHALL BE CONTAINED ON THE SITE WHERE IT IS GENERATED.
- 5. GRAYWATER SHALL BE DIRECTED TO AND CONTAINED WITHIN AN IRRIGATION OR DISPOSAL FIELD.
- 6. PONDING OR RUNOFF IS PROHIBITED AND SHALL BE CONSIDERED A NUISANCE.
- GRAYWATER MAY BE RELEASED ABOVE THE GROUND SURFACE PROVIDED AT LEAST TWO (2) INCHES OF MULCH, ROCK, OR SOIL, OR A SOLID SHIELD COVERS THE RELEASE POINT. OTHER METHODS WHICH PROVIDE EQUIVALENT SEPARATION ARE ALSO ACCEPTABLE.
- 8. GRAYWATER SYSTEMS SHALL BE DESIGNED TO MINIMIZE CONTACT WITH HUMANS AND DOMESTIC PETS.
- 9. WATER USED TO WASH DIAPERS OR SIMILARLY SOILED OR INFECTIOUS GARMENTS SHALL NOT BE USED AND SHALL BE DIVERTED TO THE BUILDING SEWER.
- IO. GRAYWATER SHALL NOT CONTAIN HAZARDOUS CHEMICALS DERIVED FROM ACTIVITIES SUCH AS CLEANING CAR PARTS, WASHING GREASY OR OILY RAGS, OR DISPOSING OF WASTE SOLUTIONS FROM HOME PHOTO LABS OR SIMILAR HOBBYIST OR HOME OCCUPATIONAL ACTIVITIES.
- II. EXEMPTION FROM CONSTRUCTION PERMIT REQUIREMENTS OF THIS CODE SHALL NOT BE DEEMED TO GRANT AUTHORIZATION FOR ANY GRAYWATER SYSTEM TO BE INSTALLED IN A MANNER THAT VIOLATES OTHER PROVISIONS OF THIS CODE OR ANY OTHER LAWS OR ORDINANCES OF THE ENFORCING AGENCY.
- 12. AN OPERATION AND MAINTENANCE MANUAL SHALL BE PROVIDED. DIRECTIONS SHALL INDICATE THE MANUAL IS TO REMAIN WITH THE BUILDING THROUGHOUT THE LIFE OF THE SYSTEM AND INDICATE THAT UPON CHANGE OF OWNERSHIP OR OCCUPANCY, THE NEW OWNER OR TENANT SHALL BE NOTIFIED THE STRUCTURE

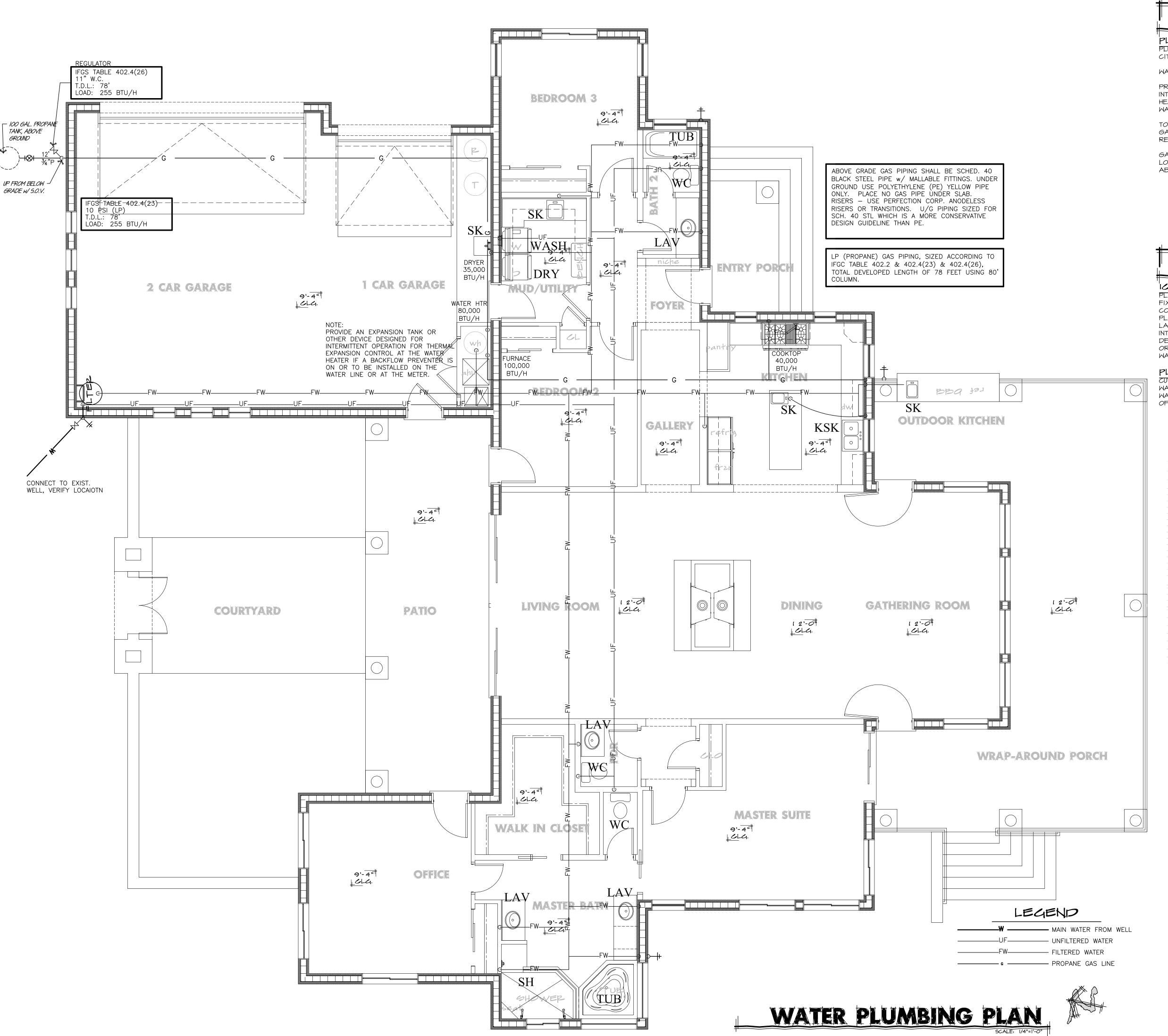
THE GRAYWATER SYSTEM SHALL NOT BE CONNECTED TO ANY POTABLE WATER SYSTEM WITHOUT AN AIR GAP OR OTHER PHYSICAL DEVICE WHICH PREVENTS BACKFLOW AND SHALL NOT CAUSE THE PONDING OR RUNOFF OF

- NO GRAYWATER SYSTEM OR PART THEREOF SHALL BE LOCATED ON ANY LOT OTHER THAN THE LOT THAT IS THE SITE OF THE BUILDING OR STRUCTURE THAT DISCHARGES THE GRAYWATER, NOR SHALL ANY GRAYWATER SYSTEM OR PART THEREOF BE LOCATED AT ANY POINT HAVING LESS THAN THE MINIMUM DISTANCES INDICATED IN TABLE 16A-1.
- WATER USED TO WASH DIAPERS OR SIMILARLY SOILED OR INFECTIOUS GARMENTS OR OTHER PROHIBITED CONTENTS SHALL BE DIVERTED BY THE USER TO THE BUILDING SEWER. GRAYWATER SHALL NOT BE USED IN SPRAY IRRIGATION, ALLOWED TO POND OR RUNOFF AND SHALL NOT BE DISCHARGED DIRECTLY INTO OR REACH ANY STORM SEWER SYSTEM OR ANY SURFACE BODY OF WATER.
- HUMAN CONTACT WITH GRAYWATER OR THE SOIL IRRIGATED BY GRAYWATER SHALL BE MINIMIZED AND AVOIDED, EXCEPT AS REQUIRED TO MAINTAIN THE GRAYWATER SYSTEM. THE DISCHARGE POINT OF ANY GRAYWATER IRRIGATION OR DISPOSAL FIELD SHALL BE COVERED BY AT LEAST (2) INCHES OF MULCH, ROCK, OR SOIL, OR A SOLID SHIELD TO MINIMIZE THE POSSIBILITY OF HUMAN CONTACT.
- GRAYWATER SHALL NOT BE USED TO IRRIGATE ROOT CROPS OR EDIBLE PARTS OF FOOD CROPS THAT

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# PLUMBING NOTES ROBERT KLOB DESIGNS, INC.

PLUMBING NOTE:

PLUMBING SHALL BE IN ACCORDANCE WITH THE U.P.C. AND ALL APPLICABLE CITY ORDANCES.

WASTE AND VENT PIPE SHALL BE ABS PLASTIC P.V.C. SCHEDULE 40

PROVIDE AN EXPANSION TANK OR OTHER DEVICE DESIGNED FOR INTERMITTENT OPERATION FOR THERMAL EXPANSION CONTROL AT THE WATER HEATER IF A BACKFLOW PREVENTER IS ON OR TO BE INSTALLED ON THE WATER LINE OR AT THE METER.

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## ICF NOTES

ICF PRE-PLACEMENT PROCEDURES:

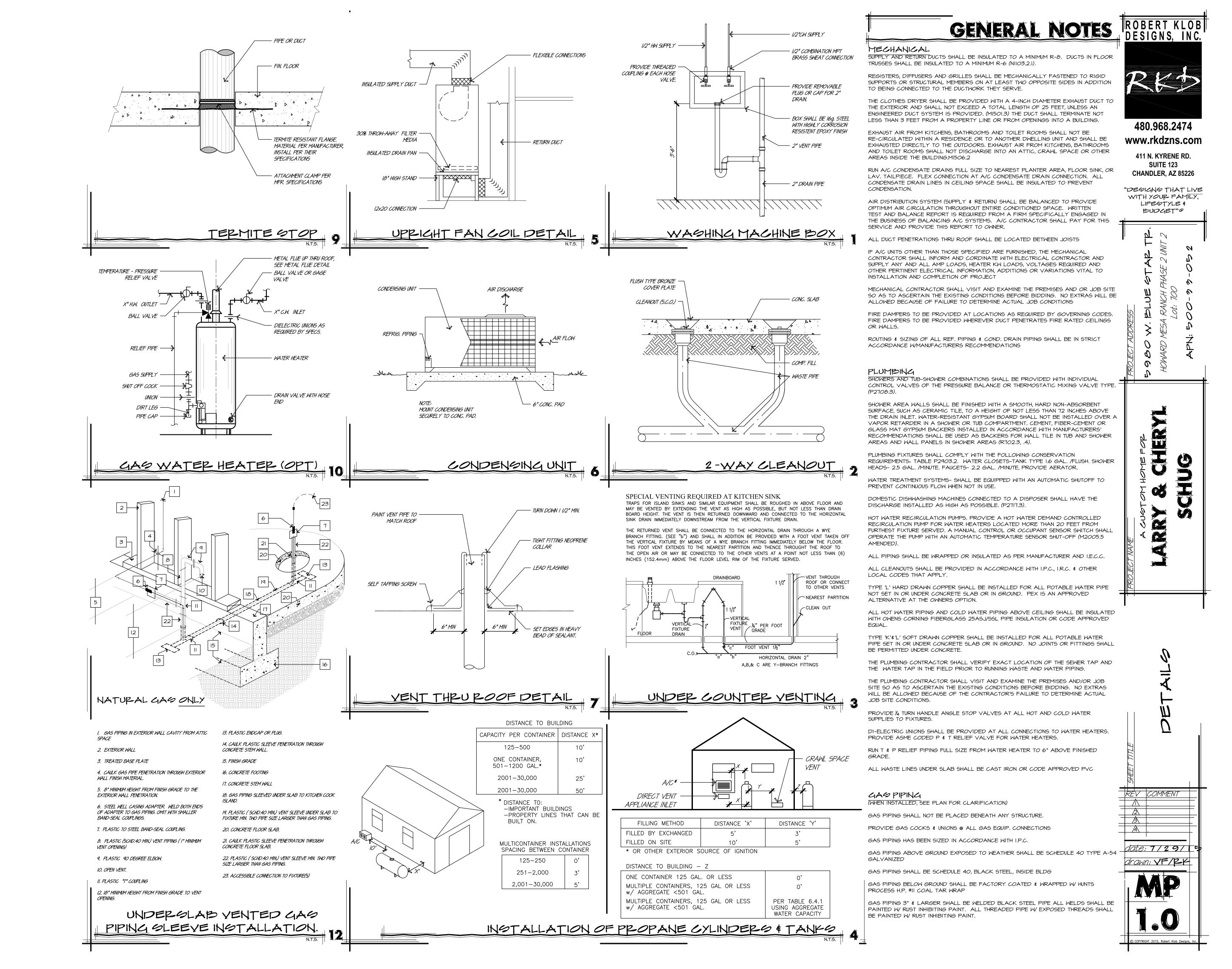
PLAN OUT WHERE WATER SUPPLY, HOSE BIBS, SEWAGE, HVAC, EXTERIOR LIGHT FIXTURES AND OUTLETS WILL BE REQUIRED AND RUN PVC, ABS OR METAL CONDUIT OR SLEEVES AS REQUIRED THROUGH FORMS BEFORE CONCRETE PLACEMENT TO PROVIDE FOR INSTALLATION OF THESE SERVICES LATER. IF LARGE DIAMETER VERTICAL WASTE LINES NEED TO BE PARTIALLY EMBEDDED INTO WALLS, PRE-INSTALL AND GLUE FOAM INSERTS INTO POSITION AT THE DESIRED LOCATION TO BE CUT OUT LATER. NOTE: CHECK WITH LOCAL CODES OR ENGINEERING FOR RECOMMENDATIONS FOR INCREASING REINFORCING AT WALL CONDITIONS WHERE THIS IS NECESSARY.

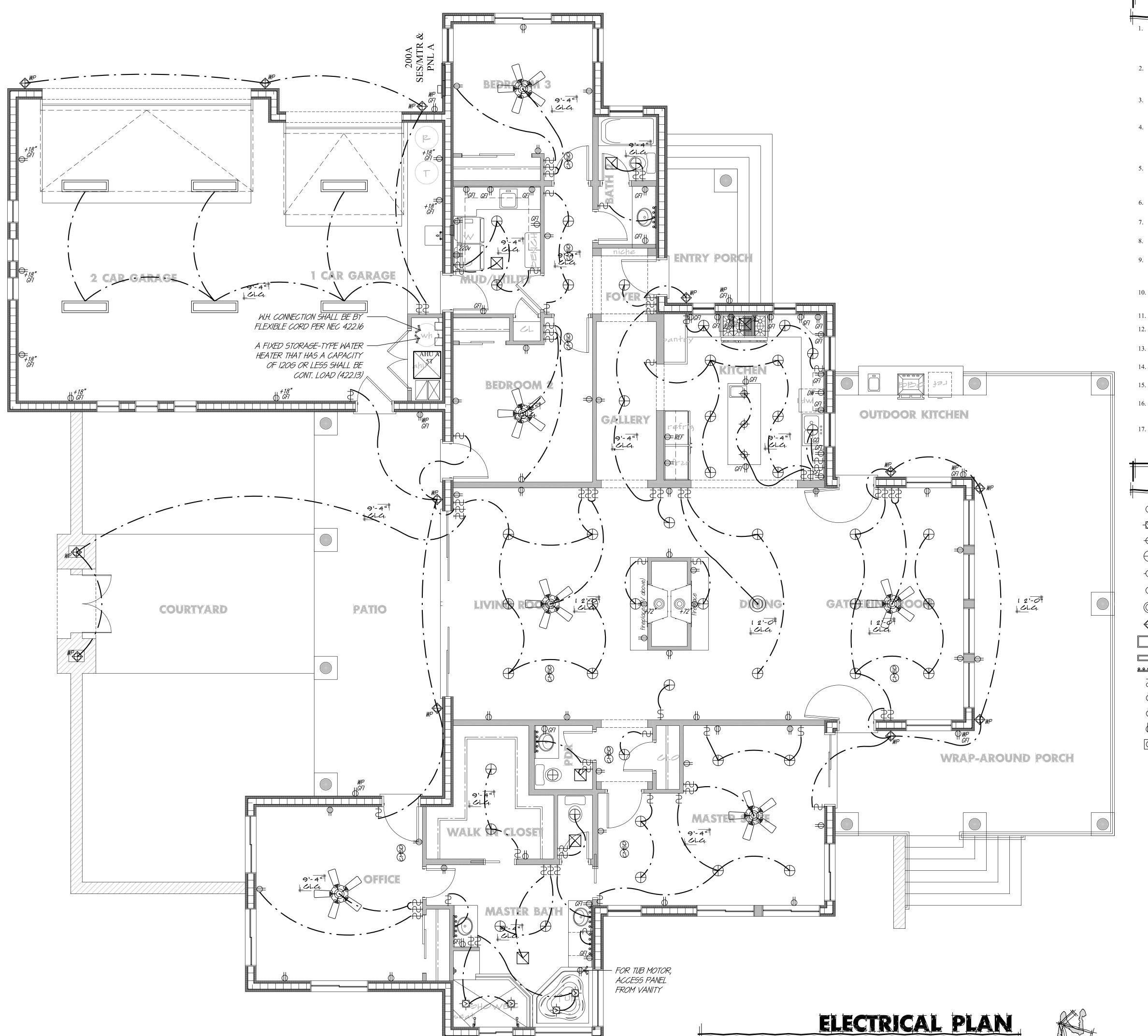
#### PLUMBING YENTO:

CUT FOAM OUT AS REQUIRED FOR VERTICAL AND HORIZONTAL VENTING AND WASTE RUNS USING A HOT KNIFE OR CHAINSAW. LARGE DIAMETER VERTICAL WASTE LINES CAN BE ENCLOSED INSIDE FRAMED CHASES INSTALLED INSIDE OF THE WALL TO AVOID WEAKENING THE CONCRETE AT THESE AREAS.

PER TABLE P2903.6 WATER FIXTURE CALC							
TYPE C	OF FIXTURE	NUMBER OF FIXTURES		FIXTURE UNIT VALUE		TOTAL FIXTURE UNITS	MIN. PIP SIZE
TUB OR S	HOWER o/ TUB	1	X	1.40	X	1.40	1/2
CLOTH	IES WA SHER	0	X	1.40	X	0.00	1/2
DISH	HWA SHER	0	X	1.40	X	0.00	1/2
FULL BATH GRO	OUP w/ TUB OR STALL	2	X	3.60	X	7.20	1/2
HALF BATH GRO	OUP (water closet and sink)	1	X	2.60	X	2.60	1/2
HOSEE	BIBB (sillcock)	1	X	2.50	X	2.50	1/2
HOSE BIBB, E	A CH A DDITIONA L	4	X	2.50	X	10.00	1/2
KITCHEN GROU	JP (dishwasher and sink)	1	X	2.50	X	2.50	1/2
KITO	CHEN SINK	0	X	1.40	X	0.00	1/2
LAUNDRY GRO	OUP (washer and tub)	1	X	2.50	X	2.50	1/2
LAU	NDRYTUB	0	X	1.40	X	0.00	1/2
LAV	/ATORIES	3	X	0.70	X	2.10	1/2
SHOWER STALL		0	X	1.40	X	0.00	1/2
WATER CI	LOSET (tank type)	0	X	2.20	X	0.00	1/2
TOTAL FIXTURE UNITS THIS PROJECT = 30.80							
	OUTLETS FOR ITEMS NOT S					IR MAXIMUM DEN , AND ENTERED IN	

WATER SUPPLY LINE SIZE





- RECEPTACLE OUTLETS SHALL BE PROVIDED NO MORE THAN 6 FT. FROM ANY POINT ALONG THE FLOOR LINE, INCLUDING WALL SPACE 2 FT. OR MORE IN WIDTH. KITCHEN AND DINING COUNTER TOPS WIDER THAN 12 IN. SHALL BE PROVIDED WITH A RECEPTACLE OUTLET. PROVIDE AN OUTLET ADJACENT TO EACH SINK.
- CENTER ALL CEILING J-BOXES/ LIGHTS IN ROOMS UNLESS NOTED OTHERWISE. OUTLET BOXES SHALL NOT BE USED AS SOLE SUPPORT FOR CEILING FANS, EXCEPT BOXES LISTED FOR THE APPLICATION SHALL BE PERMITTED AS THE SOLE MEANS OF SUPPORT.
- CEILING FANS NOT EXCEEDING 35 POUNDS (WITH OR WITHOUT ACCESSORIES) MAY BE SUPPORTED BY OUTLET BOXES PROVIDED THE BOXES ARE IDENTIFIED FOR SUCH USE PER IRC SEC. E4001.6.
- PROVIDE A MINIMUM OF TWO 20-AMPERE-RATED BRANCH CIRCUITS FOR RECEPTACLES LOCATED IN THE KITCHEN, PANTRY, BREAKFAST, AND DINING AREAS, A SEPARATE 20-AMPERE-RATED BRANCH CIRCUIT TO THE LAUNDRY, AND A SEPARATE 20-AMPERE-RATED BRANCH CIRCUIT FOR BATHROOM RECEPTACLE(S).
- ALL BRANCH CIRCUITS THAT SUPPLY 125-VOLT, SINGLE-PHASE, 15 AND 20-AMPERE RECEPTACLE OUTLETS INSTALLED IN DWELLING UNIT BEDROOMS SHALL BE PROTECTED BY AN ARC-FAULT CIRCUIT INTERRUPTER(S).
- ALL SMOKE DETECTORS EXCLUSIVE OF THOSE LOCATED IN SLEEPING ROOMS ARE REQUIRED TO BE INTERCONNECTED.
- CARBON MONOXIDE DETECTORS REQ'D WHEN INSTALLING GAS APPLIANCES IN LIVABLE PORTIONS OF RESIDENCES.
- KITCHEN OVEN/RANGE & ELECTRIC DRYER ARE REQUIRED TO BE
- SUPPLIED BY A 4-WIRE RECEPTACLE PER IRC SEC. 3808.
- COUNTERTOP OUTLETS REQUIRED EVERY 2 FT. NOT TO EXCEED 4 FT BETWEEN OUTLETS, SWITCHES REQUIRED WITHIN 3 FT. OF ROOM OR HALLWAY ENTRANCES. #12 WIRE REQUIRED ON ALL RECEPTACLE
- FIXTURES THAT ARE LOCATED IN DAMP OR WET LOCATIONS SHALL BE "LISTED" TO BE SUITABLE FOR SUCH LOCATIONS PER IRC SEC.
- 11. 240V. @ RANGE IS OPTIONAL.
- 12. LOOP ALL GFI PROTECTED RECEPTACLES TO A MINIMUM OF (I) GFI OUTLET.
- EXHAUST FANS SHALL BE NUTONE MODEL QT80 CEILING MOUNTED OR AN APPROVED EQUAL.
- 14. PLACE BATHROOM WALL FIXTURES OVER LAV'S AT DUAL LAV'S. AND COUNTERS. CENTER OVER MIRROR AT SINGLE LAV. COUNTERS
- PROVIDE I 20 AMP CIRCUIT FOR BATHROOM GFI'S WITH NO OTHER
- ALL CONVENIENCE OUTLETS WITHIN 6 FT. OF SINKS, IN BATHROOMS, GARAGES AND WITHIN 6'-6" OF DIRECT GRADE LEVEL ACCESS SHALL
- 17. OWNER TO COORDINATE WITH ELECTRICAL CONTRACTOR EXACT LOCATIONS OF ALL RECEPTACLES, FIXTURES AND SWITCHING LOCATIONS IN FIELD PRIOR TO INSTALLATION.

# SYMBOL LEGEND

O = CLG. MTD. "GLOBE" LT

-Ø- = "VAPOR PROOF" LIGHT

= STD. CAN LIGHT

-Ö- = STD. WALL MOUNT LIGHT

• = DECORATIVE CAN LIGHT

CHANDELIER

= EXTERIOR COACH LIGHT = 2'x4' FLUORESCENT LIGHT

= I'x4' FLUORESCENT LIGHT

= STD. SWITCH

= STD. SWITCHED OUTLET 

= FLOOR OUTLET

STD. CEILING FAN W/ LIGHT

= OPT. CLG. FAN / STD. LIGHT

THE TELEVISION OUTLET (J) = J-BOX

♥ = OPT. TELEPHONE 

= EXHAUST FAN 5 AIR CHANGES PER HOUR

- = FUSED DISCONNECT SWITCH

<del>29</del> = CHIMES = CONDENSOR MOTOR 2000 = MULTI-BULB VANITY LIGHT

- = PUSH BUTTON SWITCH

6D = SMOKE DETECTOR S- = GARAGE DOOR SENSOR

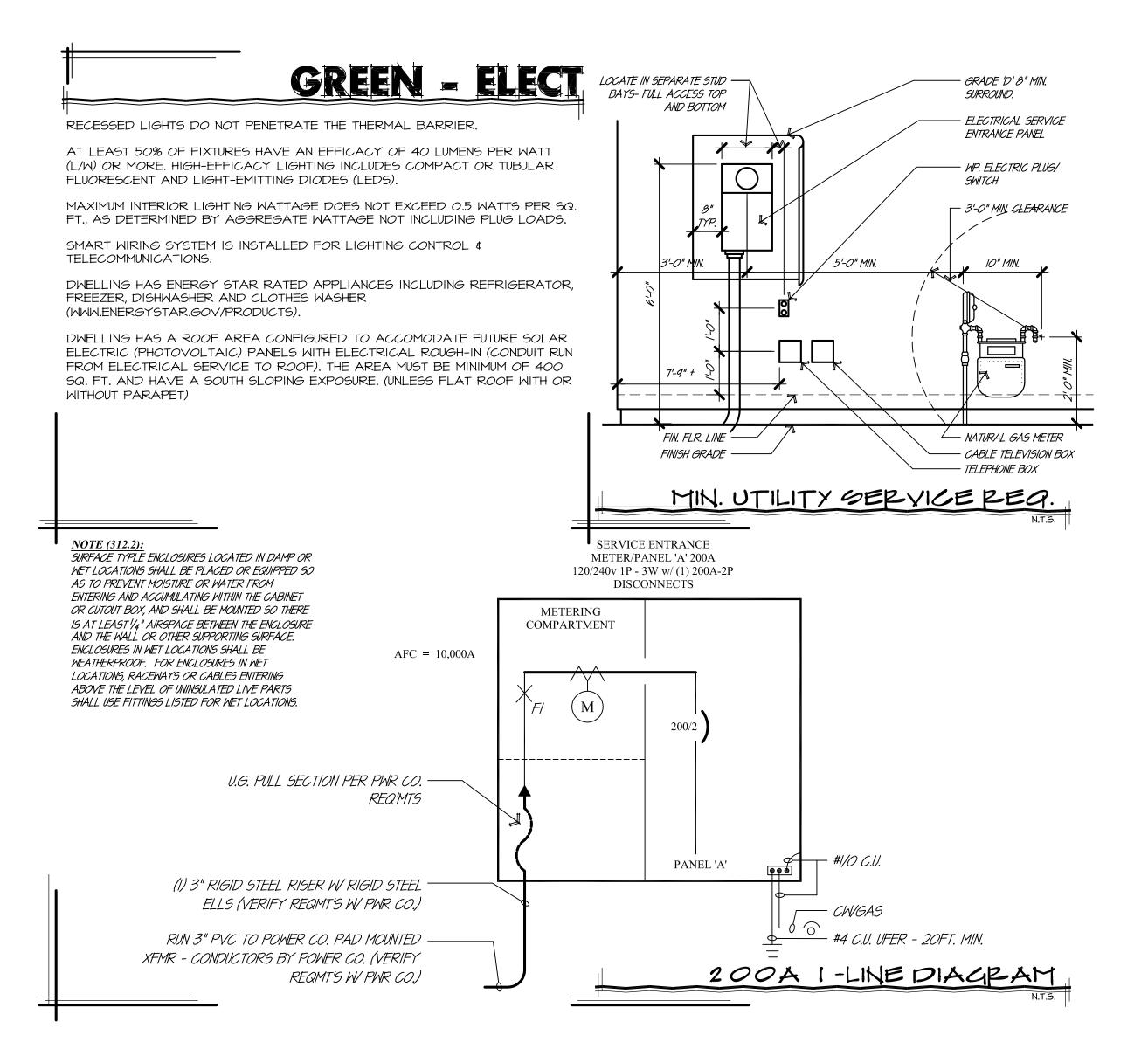
— - = ROPE LIGHT (M) = CARBON MONOXIDE DET.



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## SERIES RATED SYSTEMS

"SERIES-RATED SYSTEMS" SHALL CONSIST OF EITHER A CIRCUIT BREAKER OR FUSE CONNECTED IN SERIES WITH A DOWNSTREAM CIRCUIT BREAKER, DESIGNED AND LISTED FOR USE AS A SINGLE INTEGRATED SYSTEM.

- 2. THESE NTOES SHALL APPLY WHEN PANELBOARDS OR PROTECTIVE DEVICES ARE
- 3. THE MIN, KAIC SHOWN FOR SERIES RATED EQUIPMENT REFERS TO THE 'SERIES
- SHOWN ARE AIC RATING OF INDIVIDUAL DEVICES.
- 1. CONTRACTOR SHALL INSTALL & VERIFY MARKING ON SERIES-RATED EQUIPMENT PER NEC IIO-22, EX. "CAUTION-SERIES RATED SYSTEM (ENTER TIER RATING EX. 22/IO) (ENTER SERVING THE BEDROOMS EXCEEDS THAT OF VALUE FROM ONE-LINE 'XX') KA AVAILABLE IDENTIFIED REPLACEMENT COMPONENT

	Electrical L	oad Ca	alc	ulation	S
	Livable Sq. Ft. X 3 kva	2,926	X	3	8,778
	Appliance Circuits	2	X	1,500	3,000
	Laundry Circuit(s)	1	X	1,500	1,500
	Dishwasher / Disposal	. 1	X	1,500	1,500
	Water Heater(s)	1	X	4,500	4,500
	Dryer Circuit(s)	1	X	5,000	5,000
	Range	0	X	12,000	0
	Oven	1	X	10,000	10,000
	Cooktop	1	X	10,000	10,000
	Microwave	2	X	1,500	3,000
Opt. V	Whirlpool Tub (20 Amp)	1	X	1,500	1,500
Add'	1 Kit. Appl. Circs.(20 A)	2	X	1,500	3,000
	Bathroom GFCI	2	X	1,500	3,000
	Pool (Est)	2	X	1,500	3,000
	Spa (Est)	1	X	5,000	5,000
				Total=	62,778
		Figu	ıre T	Total = Total @ 40%	52,778 21,111
	Air Con	ditioning	Loa	ıd	
SIZE (T)	UNIT	QTY		LOAD	
5	Air Handler	1	X	1,920	1,920
5	Cond. Unit @ 125%	1	X	9,855	9,855
0	Air Handler	0	X	0	0
0	Cond. Unit @ 125%	0	X	0	0
0	Air Handler	0	X	0	0
0	Cond. Unit @ 125%	0	X	0	0
		•		A/C Total	11,775
		First	10,0	000 @ 100%	10,000
		Tot	tal L	oad in Watts	42,886
		Total Divi	ded	by 240 Volts	178.69
				200	Amp Comico

PANEL BOARD SCHEDULE "A"								
200 AMP SERVICE			TOTAL LOAD: 121A					
1. <b>AHU #I</b>	2 /	2 /	A/C #I	2.				
3. AHU #I	/60	40	A/C #I	4.				
5. WATER HTR.	2 /	20	LIGHTS MASTER	6.				
7. WATER HTR.	40	20	LT DIN/FOY	8.				
9. ARC FAULT MASTER	20	20	LT GREAT RM	10				
11. MASTER BA. RECEPT	20	20	LT KITCHEN	12				
13. BATH 2 RECEPT	20	1 5	KITCH, RECEPT	14				
15. LAU. RECEPT	20	15	KITCH. RECEPT	16				
17. WASHER	20	15	KITCH, RECEPT	18				
19. DRYER	20	20	DISPOSAL	20				
21. GARAGE	20	20	MICROWAVE	22				
23. OUTDOOR LTG.	20		SPACE	24				
25. SPACE			SPACE	26				
27. <b>SPACE</b>			SPACE	28				
29. BLANK			BLANK	30				

200 Amp Service

ELECTPICAL OCHEDULEO

# GENERAL NOTES ROBERT KLOB

CURRENT CODE.

GROUNDING NOTES

ALL INTERIOR METALLIC WATER PIPING WHICH MAY BECOME ENERGIZED SHALL

BARE 4" COPPER WIRE SHALL BE MADE BETWEEN THE BONDED PIPING SYSTEM

20'-0" MIN. BARE COPPER WIRE CONDUCTOR (4" MIN) ENCASED BY 2' MIN. OF

CONCRETE AT THE BOTTOM OF A FOOTING WHICH IN IN DIRECT CONTACT WITH

THE INTERIOR METAL COLD WATER PIPING SYSTEM IS TO BE BONDED TO THE

PERMANENT STICKER MUST BE MOUNTED ON THE ELECTRICAL PANEL STATING

SERVICE EQUIPMENT ENCLOSURE, THE GROUNDING CONDUCTOR AT THE

IF COPPER PIPING IS NOT USED, (SUCH AS WHEN USING WIRSBO PEX) A

SERVICE, THE GROUNDING ELECTRODE OR TO ONE OR MORE GROUNDING

BE BONDED TOGETHER AND MADE ELECTRICALLY CONTINUOUS. A BOND OF

- IDENTIFIED AS 'SERIES RATED'. OTHERWISE, SYSTEMS SHALL BE FULLY RATED. WIDER (MAX 4'-0" O.C.)
- CONNECTED SHORT CIRCUIT CURRENT RATING' (SCCR) OF EQUIPMENT.
- 4. ALL SERIES RATED DEVICE COMBINATIONS SHALL BE UL LISTED & LABELED. SUBSTITUTION OF COMPONENTS HAVING DIFFERENT SPECIFICATIONS OR INTERRUPTING RATING IS SPECIFICALLY PROHIBITED.
- 5. SYSTEMS ARE IDENTIFIED AS TWO-TIER OR THREE-TIER (EX 22/IO; 65/42/IO). RATINGS
- 6. WHEN SERIES-RATED SYSTEMS ARE SPECIFIED, MOTOR FLA HAS BEEN CALCULATED AT LESS THAN 1% OF THE DOWNSTREAM BREAKER AIC RATING.

RECEPTACLES SHALL BE SPACED SO THAT ALL LIGHTING FIXTURES IN CLOSETS SHALL THERE IS NO POINT ALONG THE FLOOR LINE BE LOCATED 18" MIN FROM ALL SHELVING. WHICH IS MORE THAN 6'O' FROM AN OUTLET. PROVIDE ONE OUTLET MIN. FOR EACH COUNTER SPACE IN KITCHEN WHICH IS 12' OR DWELLING AND GARAGES SHALL BE METAL

RECEPTACLES IN BATHROOMS, GARAGES SERVING KITCHEN COUNTER TOP AREA AND ANY EXTERIOR LOCATION SHALL BE GROUND FAULT INTERRUPTION SYSTEM (GFI)

SMOKE DETECTORS SHALL BE PLACED NO MORE THAN 12" FROM THE CEILING, CLOSER THAN 4 INCHES FROM AN INSIDE CORNER, AND 3'-0' MIN. FROM DUCT OPENINGS. SD.'S SHALL BE PERMANENTLY WIRED AND INTERCONNECTED AND SHALL PROTECT ALL SLEEPING AREAS WITH BATTERY BACK-UP, WHERE THE HIGHEST POINT OF A CEILING IN A ROOM THAT OPENS TO THE HALLWAY THE HALLWAY BY 24' OR MORE, SMOKE

HALLWAY AND IN THE ADJACENT ROOM. SWITCH PLATES AND OUTLET HEIGHTS: SWITCH PLATES - +46" TO CL. OUTLETS -+12" TO CL. KITCHEN OUTLETS - +46" TO CL.

AND THE ELECTRODE CONDUCTOR

THAT NO SECONDARY GROUND IS NECESSARY.

THE ADJACENT EARTH.

ELECTRODES USED.

DETECTORS SHALL BE INSTALLED IN THE

BATHROOM OUTLETS - +42" TO CL. WASHER & DRYER OUTLETS - +36" TO CL. LAUNDRY OUTLETS - 46" TO CL. GARAGE OUTLETS - 46" TO CL. WATER HEATERS - +60" TO CL.

OUTLET BOXES IN WALLS BETWEEN THE OR U.L. APPROVED PLASTIC. METAL BOXES IN GARAGE CEILINGS. TWO OR MORE 20 AMP SMALL APPLIANCE

CIRCUITS SHALL BE PROVIDED TO SERVE THE KITCHEN, BREAKFAST AND DINING AREAS. SUCH CIRCUITS SHALL HAVE NO OTHER OUTLETS PER CURRENT CODE. PROVIDE ONE (MIN) 20 AMP BRANCH

CIRCUIT TO SERVE THE LAUNDRY ROOM. SUCH CIRCUIT SHALL HAVE NO OTHER OUTLETS PER CURRENT CODE. KITCHEN COUNTER TOP RECEPT'S PER

MINIMUM 40 AMP CIRCUIT REQUIRED FOR

RANGE AND/OR OVEN.

APPROVED OUTLETS SHALL BE USED. BATHROOM RECEPTACLE OUTLETS TO BE SUPPLIED BY AT LEAST 20 AMP BRANCH CIRCUIT WITH NO OTHER OUTLETS.

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# INTERRUPTING RATING

EQUIPMENT INTENDED TO BREAK CURRENT AT FAULT LEVELS SHALL HAVE AN INTERRUPTING RATING SUFFICIENT FOR THE NORMAL CIRCUIT VOLTAGE AND THE CURRENT THAT IS AVAILABLE AT THE LINE TERMINALS OF THE EQUIPMENT. EQUIPMENT INTENDED TO BREAK CURRENT AT OTHER THINALS OF THE

EQUIPMENT INTENDED TO INTERRUPT CURRENT AT OTHER THAN FAULT LEVELS SHALL HAVE AN INTERRUPTING RATING AT NOMINAL CIRCUIT VOLTAGE NOT LES THAN THE CURRENT THAT MUST BE INTERRUPTED.

# NOTE (410-4A)

EXTERIOR LIGHT FIXTURES SHALL BE INSTALLED SO THAT WATER CANNOT ENTER OR ACCUMULATE IN WIRING COMPARTMENTS, LAMPHOLDERS, OR OTHER ELECTRICAL PARTS. ALL FIXTURES INSTALLED IN WET OR DAMP LOCATIONS SHALL BE MARKED "SUITABLE FOR WET LOCATIONS"

# CEILING FAN NOTE

OUTLET BOXES AND SYSTEMS USED AS THE SOLE SUPPORT FOR CEILING-SUSPENDED FANS ARE TO BE MARKED BY THE MANUFACTURER AS SUITABLE FOR THIS PURPOSE AND ARE NOT TO SUPPORT FANS THAT WEIGH MORE THAN 70 LBS. MARKING FOR BOXES DESIGNED TO SUPPORT FANS WEIGHING MORE THAN 35 LBS. IS TO INCLUDE THE MAXIMUM WEIGHT TO BE SUPPORTED - PER IRC E3805.9

# AFCI NOTE

ALL BRANCH CIRCUITS THAT SUPPLY 125v, SINGLE PHASE, 15 & 20 AMPERE OUTLETS INSTALLED IN DWELLING UNIT BEDROOMS SHALL BE PROTECTED BY AN ARC-FAULT CIRCUIT INTERRUPTER LISTED TO PROVIDE PROTECTION OF THE ENTIRE BRANCH CIRCUIT.

"OUTLETS" INCLUDE RECEPTACLES, FANS, LIGHTING, SMOKE ALARMS ETC.

# ICF NOTES

IOF PRE-PLACEMENT PROCEDURES:

PLAN OUT WHERE WATER SUPPLY, HOSE BIBS, SEWAGE, HVAC, EXTERIOR LIGHT FIXTURES AND OUTLETS WILL BE REQUIRED AND RUN PVC, ABS OR METAL CONDUIT OR SLEEVES AS REQUIRED THROUGH FORMS BEFORE CONCRETE PLACEMENT TO PROVIDE FOR INSTALLATION OF THESE SERVICES LATER. IF LARGE DIAMETER VERTICAL WASTE LINES NEED TO BE PARTIALLY EMBEDDED INTO WALLS, PRE- INSTALL AND GLUE FOAM INSERTS INTO POSITION AT THE DESIRED LOCATION TO BE CUT OUT LATER. NOTE: CHECK WITH LOCAL CODES OR ENGINEERING FOR RECOMMENDATIONS FOR INCREASING REINFORCING AT WALL CONDITIONS WHERE THIS IS NECESSARY.

#### ICF POST-PLACEMENT PROCEDURES: ELECTPICAL:

UTILITY BOXES: CUT INTERIOR FOAM TO REQUIRED SHAPE FOR EACH BOX USING A HOT KNIFE TOOL OR UTILITY KNIFE AT THE REQUIRED LOCATION. BOXES CAN THEN BE SCREWED OR GLUED TO THE CONCRETE PER LOCAL CODE REQUIREMENTS. WIPING:

CARVE 5/16" (8 MM) WIDE CHANNELS TO A MIN. DEPTH OF 2" (50MM) INTO THE FOAM USING A HOT KNIFE, OR ELECTRIC CHAIN SAW WITH A PRESET DEPTH GUIDE WHEEL. STD. NMC (ROMAX) CABLE WILL THEN BE ABLE TO BE FRICTION FIT INTO THE CHASE CREATED. PUSH THE CABLE TO THE VERY BACK OF THE CHASE SO THAT THE DISTANCE FROM THE FACE OF THE WIRE TO THE INSULATION SURFACE IS NO LESS THAN I 1/4" (32MM). ONCE COMPLETE, THE CABLE CAN BE ADDITIONALLY SPOT GLUED IN POSITION WITH DABS OF NUDURA + EXPANSION FOAM ADHESIVE. FOR WIRING BEHIND LEDGER BOARDS, THE FOAM CAN BE MELTED IF REQUIRED USING A HEATED BALL BEARING DROPPED INTO A CHASE CUT ABOVE LEDGER AT THE DESIRED LOCATION AND A SHEET METAL STOP INSERTED INTO THE CHASE BELOW.

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date: **7/29**/ drawn: VF/PK

REV COMMENT