GENERAL NOTES

1 THERE SHALL BE NO VERTICAL OFFSET GREATER THAN 1/2 INCH ALONG THE ENTIRE PATH OF TRAVEL FROM THE PUBLIC WAY.

2 > PROVIDE THE FOLLOWING FOR FLOORS AND WALLS IN WATER CLOSET COMPARTMENTS AND SHOWERS: A. FLOOR: TOILET ROOM FLOORS SHALL HAVE

A SMOOTH, HARD, ABSORBENT SURFACE SUCH AS PORTLAND CEMENT. CONCRETE CERAMIC TILE OR OTHER APPROVED MATERIAL THAT EXTENDS UPWARD ONTO THE WALLS AT LEAST 5 INCHES.

B. WALLS: WALLS WITHIN 2 FEET OF THE FRONT AND SIDES OF URINALS AND WATER CLOSETS SHALL HAVE SMOOTH, HARD, ABSORBENT SURFACE OF PORTLAND CEMENT, CONCRETE, CERAMIC TILE OR OTHER NON-ABSORBENT SURFACE TO A HEIGHT OF 4 FEET. THE MATERIALS USED IN SUCH WALLS SHALL BE OF A TYPE THAT IS NOT ADVERSELY AFFECTED BY MOISTURE. C. ACCESSORIES PROVIDED ON OR WITHIN

RESTROOM WALLS SHALL BE INSTALLED AND SEALED TO PROTECT STRUCTURAL

ELEMENTS FROM MOISTURE.

3 > THIS PROJECT HAS BEEN DESIGNATED WITH A UNIFORM LOAD OF 1.5 POUNDS PER SQUARE FOOT TO SUPPORT THE ADDED LOADS OF A FIRE-SPRINKLER SYSTEM. THE MAIN FRAMING MEMBERS HAVE BEEN DESIGNED TO SUPPORT THE CONCENTRATED LOADS OF A SPRINKLER

4 > PROVIDE FIRE BLOCKING AT ALL FLOOR AND CEILING LEVELS AND AT EIGHT-FOOT VERTICAL INTERVALS.

5 THE ATTIC ACCESS SHALL BE WEATHER STRIPPED & INSULATED TO R-38 ON THE ACCESS PANEL.

6 > 1/2 INCH GYPSUM BOARD AT ALL WALLS, CEILINGS. FOR NAILING, REFER TO NAILING SCHEDULE ON STRUCTURAL DRAWINGS. ALL WEATHER STRIPPING, CAULKING, AND SEALING OF EXTERIOR DOORS, WINDOWS, AND BUILDING ENVELOPE OPENINGS, AS REQUIRED BY STANDARDS, SHALL BE SUBJECT TO FIELD INSPECTION.

7 > OPEN-ABLE WINDOW AREA SHALL BE GREATER THAN OR EQUAL TO ONE-SIXTEENTH (1/16) OF THE FLOOR AREA.

8 > ALL WINDOW/DOOR FLASHING REFER TO FLASHING DETAIL #9 ON SHEET A6.0.

9 \rightarrow PROVIDE A 12" X 12" MIN. OPENING FOR TUB EQUIPMENT ACCESS PANEL.

SHOWERS MUST HAVE THE FOLLOWING: 1. A MIN. INSIDE CLEAR DIMENSION OF 30 INCHES WITHIN A MIN. TOTAL AREA OF 1,024 SQ. IN. 2. MUST HAVE WATERPROOF WALL FINISH UP @ 70 INCHES ABOVE THE SHOWER DRAIN. 3. SHOWER CURTAINS OR ENCLOSURES ARE REQUIRED. 4. SHOWER DOORS MUST BE AT LEAST 22 INCHES

 $^{>}$ PROVIDE PEDESTRIAN EXIT IN GARAGE A MIN. SIZE OF 36" X 80".

PROVIDE 5/8 INCH TYPE 'X' GYPSUM BOARD ON GARAGE SIDE OF FIREWALL BETWEEN THE GARAGE AND THE DWELLING UNIT AND ITS ATTIC FROM FLOOR TO ROOF SHEATHING. PROVIDE 5/8 INCH TYPE 'X' GYPSUM BOARD ON GARAGE SIDE OF THE CEILING/FLOOR SYSTEM WHEN THERE IS HABITABLE AREA ABOVE THE GARAGE. THE FIRE BARRIER MAY TERMINATE AT THE CEILING WHERE FIRE BARRIER IS HORIZONTAL AND ALL STRUCTURAL MEMBERS THAT SUPPORT THE FIRE BARRIER ARE PROTECTED BY FIRE RESISTANT CONSTRUCTION NOT LESS THAN 5/8 INCH GYPSUM BOARD OR EQUIVALENT.

13 UPPER CABINETS SHALL BE A MIN. OF 18 INCHES ABOVE FINISHED DECK OR THE HOOD IS TO BE INSTALLED PER MANUFACTURER'S REQUIREMENTS WITH CLEARANCES AS REQUIRED BY THE RANGE/COOKTOP MANUFACTURER'S INSTALLATION INSTRUCTIONS.

14 ALL RADIUS WALLS MUST BE 3/4 INCH PLYWOOD SINGLE AT BOTTOM, DOUBLE

15 ALL GLASS IN DOORS MUST BE LABELED SAFETY GLASS OR TEMPERED GLASS.

16 ALL TUB/SHOWER ENCLOSURE AND GLAZING MUST BE LABELED SAFETY GLASS OR TEMPERED GLASS.

17 GAS FIREPLACE OR DECORATIVE GAS APPLIANCE WITH STANDING PILOT ✓ SHALL COMPLY WITH TABLE 4-2 OF THE 2012 IBC.

18 > PROVIDE MANUFACTURER'S INSTALLATION INSTRUCTIONS AT JOB SITE FOR INSPECTION FOR THE FIREPLACE/WOODSTOVE.

(19) PROPANE LOG LIGHTERS ARE NOT ALLOWED.

WHERE THE DRYER EXHAUST DUCT IS CONCEALED WITHIN THE BUILDING CONSTRUCTION, THE EQUIVALENT LENGTH OF THE EXHAUST DUCT SHALL BE IDENTIFIED ON A PERMANENT LABEL OR TAG. THE LABEL OR TAG SHALL BE LOCATED WITHIN 6 FEET OF THE EXHAUST DUCT CONNECTION. THE LABEL OR TAG SHALL INDICATE THE TOTAL LENGTH AND NUMBER OF 90 DEGREE AND 45 DEGREE TURNS OF THE DRYER EXHAUST SYSTEM. THE OWNER AND/OR THE SUPPLIER SHALL VERIFY THAT ANY NEW OR REPLACEMENT DRYER MEETS THE EXHAUST SPECIFICATIONS SHOWN. IRC SECTION M1502.4.6 MODIFIED.

DESIGN SPECIFICATIONS:

-AGGREGATE

-WOOD BLOCK

2018 IRC

2000 PSF

2500 PSI

20.0 PSF

40.0 PSF

15.0 PSF

N/A

-CONTINUOUS

-CONCRETE

PSF

-NATIVE SOIL

-A.C. PAVING

EXPOSURE "C" 110 MPH

CONSTRUCTION TYPE:

SEISMIC DESIGN CATEGORY

ALLOWABLE SOIL BEARING

COMPRESSIVE STRENGTH OF

GOVERNING CODE:

DESIGN WIND LOAD:

PRESSURE:

21 FAU LOCATED IN THE MAIN FLOOR GARAGE SHALL HAVE DUCTING THAT IS MIN NO. 26 GAGE SHEET STEEL OR OTHER APPROVED MATERIAL AND SHALL BE SEALED WITH A FIRE BARRIER SEALER/CAULKING AT THE FIREWALL PENETRATION PER M1307.3 AND R302.5.2. NO OPENINGS IN THE DUCTING ARE PERMITTED IN THE GARAGE.

22 ALL WINDOWS SHALL BE RECESSED INSTALLATION PER 'THE RIVIERA LAKE HAVASU' DESIGN REQUIREMENTS.

					CONC. @ 28 DAYS
CITE DATA.					LIVE LOADS:
SITE DATA:					ROOF:
SITE AREA:	15,831	SQ. FT.	0.36 ACR	ES±	FLOOR:
					BALCONY:
MAIN FLOOR:			3,339	SF	DEAD LOADS:
					ROOF: (STUCCO CEILING)
COVERED ENTRY:			116	SF	WALL:
COVERED PATIO:			482	SF	LEGEND:
			4.000	0=	-STEEL
2-CAR/RV GARAGE:			1,860	SF ———	-MASON
					I

NEW CUSTOM RESIDENCE FOR:

MR. & MRS. BLACKWELL



REFERENCE SYMBOLS LEGEND:

DESCRIPTION

ROOM NAME/NUMBER

WINDOW CALL OUT

DOOR CALL OUT

EQUIPMENT LABEL

DETAIL CUT REFERENCE

SECTION CUT REFERENCE

ELEVATION (SECTIONS &

INDICATES NEW BUILDING GRID

INDICATES EXISTING BUILDING

FOOTING & COLUMN SCHEDULE

PLANS)

GRID LINE.

---- DETAIL

SYMBOL

ROOM NAME

(XXX)

 $\langle X \rangle$

SHEET DRAWN ON

VICINITY MAP	
PROJECT SITE —	A
	7
HIGHWAY 95	A
THE COPPER CANYON WAY WREN COVE WAY	E E E E E E C C C C C C C C C C C C C C

	WREN
	WREN COVE WAY
PROJECT DA	TA:
PROPOSED USE:	SINGLE FAMILY RESIDENCE
APN.	109-54-043
SITE ADDRESS:	2441 WREN COVE WAY LAKE HAVASU CITY, AZ
ZONE:	RE
OCCUPANCY:	
SINGLE FAMILY RESIDENCE	R-1
GARAGE	U
PATIO	U
CONSTRUCTION TYPE:	
MAIN BUILDING	VB
FIRE SPRINKLER SYSTEM:	NO

	INIGTITIITE	HORIZ.	HORIZONTAL
100	INSTITUTE	HSB.	HIGH STRENGTH BOLT
.I.S.C.	AMERICAN	H.S.	HIGH SIDE
	INSTITUTE OF	IN.	INCH
	STEEL CONSTR.	I.D.	INSIDE DIAMETER
.S.T.M.	AMERICAN SOCIETY	INT.	INTERIOR
	FOR TESTING	JST.	JOIST
	& MATERIALS	K or KIPS	1000 lbs
PA	AMERICAN PLYWOOD		
FA		LAM.	LAMINATED
	ASSOCIATION	LB or LBS.	
RCH.	ARCHITECT(URAL)	L.S.	LOW SIDE
WS	AMERICAN WELDING	LT. WT.	LIGHT WEIGHT
	SOCIETY	LLV	LONG LEG VERTICAL
D.	BOARD	M.B.	MACHINE BOLT
F.		MAS.	MASONRY
	BRACED FRAME	IVIAX.	MAXIMUM
LK.	BLOCK	MF.	MOMENT FRAME
LKG.	BLOCKING	MTL.	METAL
OT.	BOTTOM	MIN.	MINIMUM
LDG.	BUILDING	N.T.S.	
M.	BEAM	NO. or #	
.N.	BOUNDARY NAILING	O.C.	ON CENTER
	CHANNEL	O.G. OPNG.	OPENING
LG.	CEILING	OPNG. OPP.	
LR.	CLEAR		OPPOSITE
OL.	COLUMN	O.D.	OUTSIDE DIA.
.M.U.	CONCRETE MASONRY	PL.	PLATE
		PENNY(d)	NAILS
	UNIT CONSTRUCTION	PLYWD.	
.J.		P.S.F.	POUNDS PER
ONG	JOINT		SQUARE FOOT
ONC.	CONCRETE	P.S.I.	POUNDS PER
ONN.	CONNECTION		SQUARE INCH
ONSTR.	CONSTRUCTION	PRESS.	PRESSURE
ONT.	CONTINUOUS	R.	RADIUS
A	DOUBLE ANGLE	REINF.	REINFORCING
EMO.	DEMOLISH		
ET.	DETAIL	REQD.	REQUIRED
IAG.	DIAGONAL	RM.	ROOM
IA. (Ø)	DIAMETER	SCHED.	SCHEDULE
IM.	DIMENSION	SHTG.	SHEATHING
BL.	DOUBLE	SHT.	SHEET
WG.	DRAWING	SIM.	SIMILAR
νν Ο. Α.	EACH	SLV	SHORT LEG
л. .N.	EDGE NAILING		VERTICAL
		SPEC.	SPECIFICATION
LEV.	ELEVATION	STGR.	STAGGER
OR	ENGINEER OF RECORD	STD.	STANDARD
NGR.	ENGINEER	STL.	STEEL
Q.	EQUAL	STIFF.	STIFFENER
QUIP.	EQUIPMENT	STRUCT.	STRUCTURAL
S	EDGE SCREW OR	SQ.	SQUARE
O	EACH SIDE	SYM.	SYMMETRICAL
XIST (E)	EXISTING	TF	TOP FLANGE
	_	THK.	THICK
XP.	EXPANSION	TS	TUBE STEEL
IN.	FINISH	U.B.C.	UNIFORM
.N.	FIELD NAILING	U.B.C.	
M	FACE MOUNT		BUILDING CODE
LR.	FLOOR	U.N.O.	UNLESS NOTED
TF	FLOOR TO FLOOR		OTHERWISE
TG.	FOOTING	VERT.	VERTICAL
DN.	FOUNDATION	W.	WIDTH
RMG.	FRAMING	WT.	WEIGHT
A.	GAUGE	W.W.F.	WELDED WIRE
ALV.	GALVANIZED		FABRIC
F	GOOD FOR	W.W.M.	WELDED WIRE
.L.B.	GLUE LAM BEAM		MESH
RD.	GRADE	W.F.	WIDE FLANGE
IND.	SINDL	W/	WITH
		WS	WOOD SCREW
		770	VVOOD OUNLVV

ABBREVIATIONS:

HGR.

HANGER

ADJUSTABLE

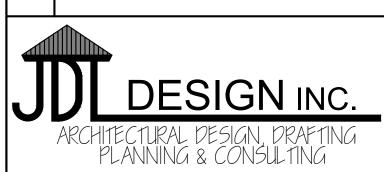
A.C.I.

ABOVE		HANGEN	C1.0 PROPOSED SITE PLAN
-			A1.0 MAIN FLOOR PLAN
			A2.0 EXTERIOR ELEVATIONS
			A3.0 ROOF PLAN
		-	A4.0 BUILDING SECTIONS
		_	A5.0 DOOR/WINDOW SCHEDULES
			A6.0 ARCHITECTURAL DETAILS
			A6.1 ARCHITECTURAL DETAILS
-			A6.2 ARCHITECTURAL DETAILS
			ELECTRICAL/LIGHTING DRAWINGS:
			ELECTRICAL/EIGHTING DIV WINGO.
			E0.1 ELECTRICAL NOTES/CALCULATIONS
` ,			E1.0 MAIN FLOOR ELECTRICAL/LIGHTING PLAN
			CTDLICTLIDAL DDAMINICO.
			STRUCTURAL DRAWINGS:
-			S1 FOOTING & FOUNDATION PLAN
-	MAX.		S2 MAIN LEVEL SHEAR WALL PLAN
	MF.	MOMENT FRAME	S2.1 HIGH ROOF SHEAR WALL PLAN
	MTL.	METAL	S3 ROOF FRAMING PLAN
		MINIMUM	S3.1 HIGH ROOF FRAMING PLAN
			SD.0 STRUCTURAL NOTES
			SD.1 STRUCTURAL DETAILS
			SD.2 STRUCTURAL DETAILS
-			SD.3 STRUCTURAL DETAILS
			SD.4 STRUCTURAL DETAILS
			3D.4 311(00101(AL DETAILS
CONSTRUCTION			
JOINT	F.3.F.		
CONCRETE	DSI		
CONNECTION	1 .5.1.		
CONSTRUCTION	PRESS		
	SCHED.	SCHEDULE	
	SHTG.	SHEATHING	
	SHT.	SHEET	
	SIM.	SIMILAR	
_	SLV		
	CDEC		
	_		
EQUAL			
· ·			
EDGE SCREW OR			
EACH SIDE	SYM.	SYMMETRICAL	
EXISTING	TF	TOP FLANGE	
EXPANSION	THK.	THICK	
FINISH			
FIELD NAILING	U.B.C.		
FACE MOUNT			
	U.N.O.		
	VEDT		
_			
	VV.VV.F.		
	W W M	-	
	V V . V V . (VI.		
	W.F.	WIDE FLANGE	
GRADE			
	ABOVE AMERICAN CONCRETE INSTITUTE AMERICAN INSTITUTE OF STEEL CONSTR. AMERICAN SOCIETY FOR TESTING & MATERIALS AMERICAN PLYWOOD ASSOCIATION ARCHITECT(URAL) AMERICAN WELDING SOCIETY BOARD BRACED FRAME BLOCK BLOCKING BOTTOM BUILDING BEAM BOUNDARY NAILING CHANNEL CEILING CLEAR COLUMN CONCRETE MASONRY UNIT CONSTRUCTION JOINT CONCRETE CONNECTION CONSTRUCTION	ABOVE AMERICAN CONCRETE INSTITUTE INSTITUTE OF STEEL CONSTR. AMERICAN SOCIETY FOR TESTING & MATERIALS AMERICAN PLYWOOD ASSOCIATION ASSOCIATION AMERICAN WELDING SOCIETY BOARD BRACED FRAME BLOCK BLOCK BLOCKING BOTTOM BUILDING BEAM BOUNDARY NAILING CHANNEL CEILING CLEAR COLUMN CONCRETE MASONRY UNIT CONCRETE CONNECTION CONSTRUCTION JOINT CONCRETE CONNECTION CONSTRUCTION	ABOVE AMERICAN CONCRETE INSTITUTE AMERICAN INSTITUTE OF STEEL CONSTR. AMERICAN SOCIETY FOR TESTING & MATERIALS AMERICAN PLYWOOD ASSOCIATION ARCHITECT(URAL) AMERICAN WELDING SOCIETY BOARD BRACED FRAME BLOCK BLOCKING BUILDING BOTTOM BUILDING BOUNDARY NAILING CHANNEL COLLEAR COLLUMN CONCRETE CONSTRUCTION JOINT CONCRETE CONSTRUCTION JOINT CONCRETE CONSTRUCTION CONSTRUCTI

WNER DATA:		NOTES	
AN & DEBRA BLACKWELL	1		
251 FANTASIA LN. JNTINGTON BEACH, CA 92649			
14) 319-9495 EBBIEBLACKWELL1@VERIZON.NET			
ESIGNER:	1		
L DESIGN INC	┪		
55 THUNDERHEAD DR.			
KE HAVASU CITY, AZ 86406 IONE: 602-750-7898			
MAIL: jdldesigninc@gmail.com			
TRUCTURAL ENGINEER:	1		
ROFESSIONAL ENGINEERING SERVICE, INC.	1		
67 BIRCH SQUARE, SUITE A KE HAVASU CITY, AZ 86403			
HONE: 928-453-9955			
MAIL: george@azpes.com			
UILDING DEPARTMENT:	1		
KE HAVASU CITY BUILDING DEPARTMENT	1		
30 MCCULLOCH BLVD. N. KE HAVASU CITY, AZ 86403			
ONTACT: BUILDING OFFICIAL			
HONE: 928-453-4149			
COPE OF WORK	1		
CONSTRUCT A 3,339 SF SINGLE FAMILY RESIDENCE ON 0.36±	1		
ACRE LAND.			
	4		
APPLICABLE BUILDING CODES	_		
18 INTERNATIONAL BUILDING CODE			
18 INTERNATIONAL RESIDENTIAL CODE W/AMENDMENTS 18 INTERNATIONAL PLUMBING CODE			
18 NATIONAL ELECTRIC CODE			
18 INTERNATIONAL MECHANICAL CODE 18 INTERNATIONAL FUEL GAS CODE			
18 INTERNATIONAL FIRE CODE			
10 ADAAG MANUAL			
	1		
SHEET INDEX:	1		
CHITECTCURAL DRAWINGS:	1		
0.1 COVER SHEET 1.0 PROPOSED SITE PLAN			
1.0 MAIN FLOOR PLAN			

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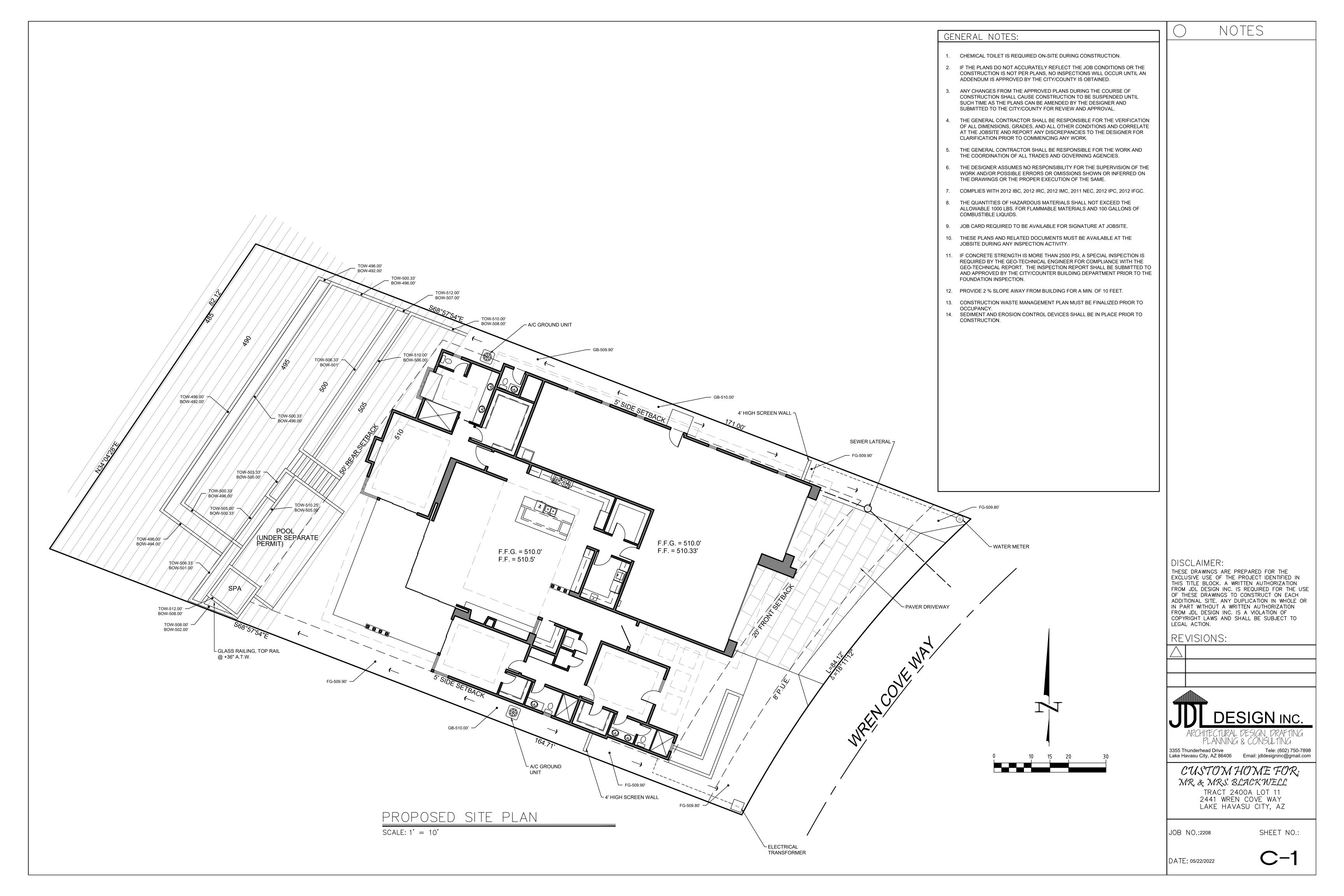
3355 Thunderhead Drive Tele: (602) 750-7898 Lake Havasu City, AZ 86406 Email: jdldesigninc@gmail.com

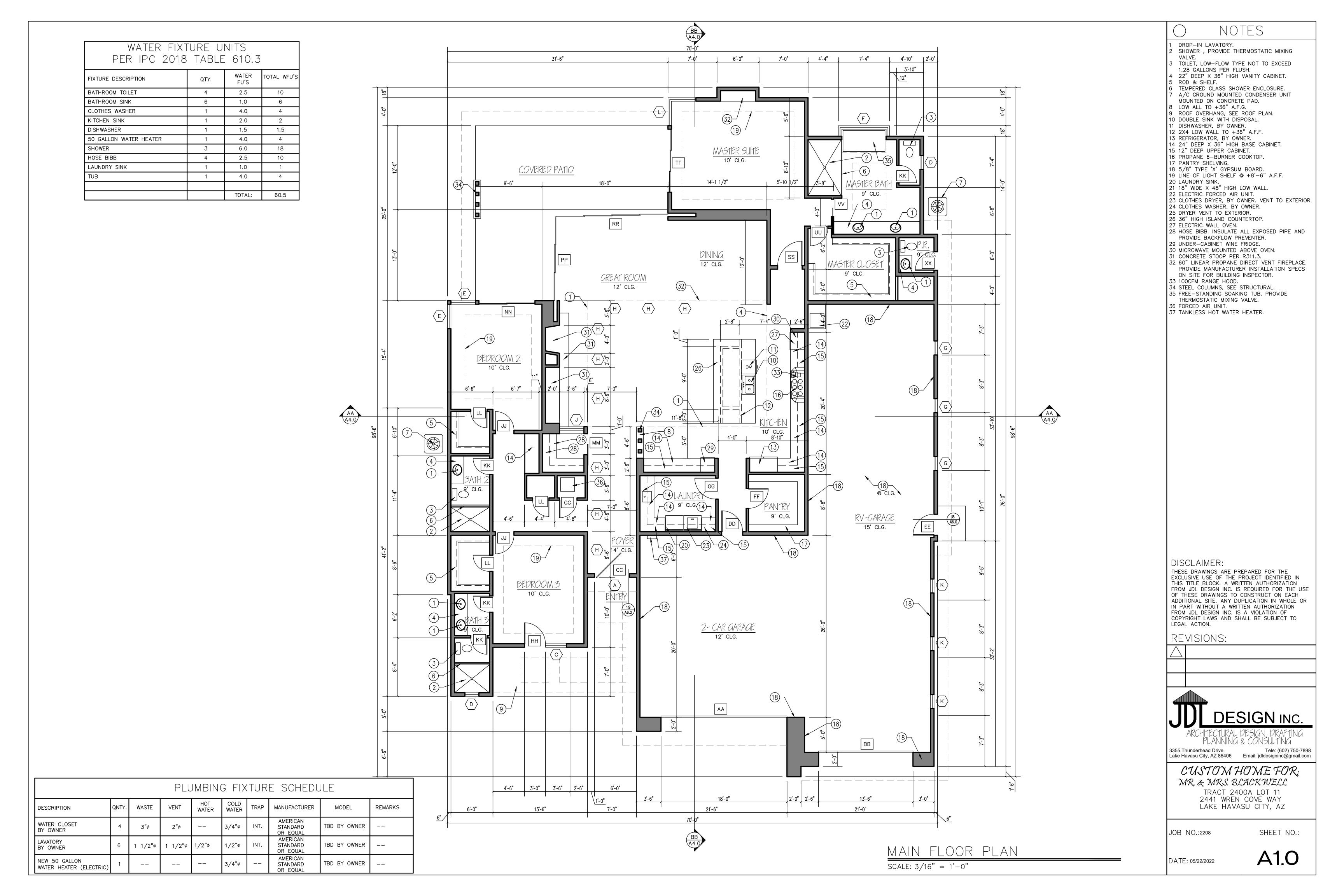
CUSTOM HOME FOR: MR. & MRS. BLACKWELL TRACT 2400A LOT 11 2441 WREN COVE WAY LAKE HAVASU CITY, AZ

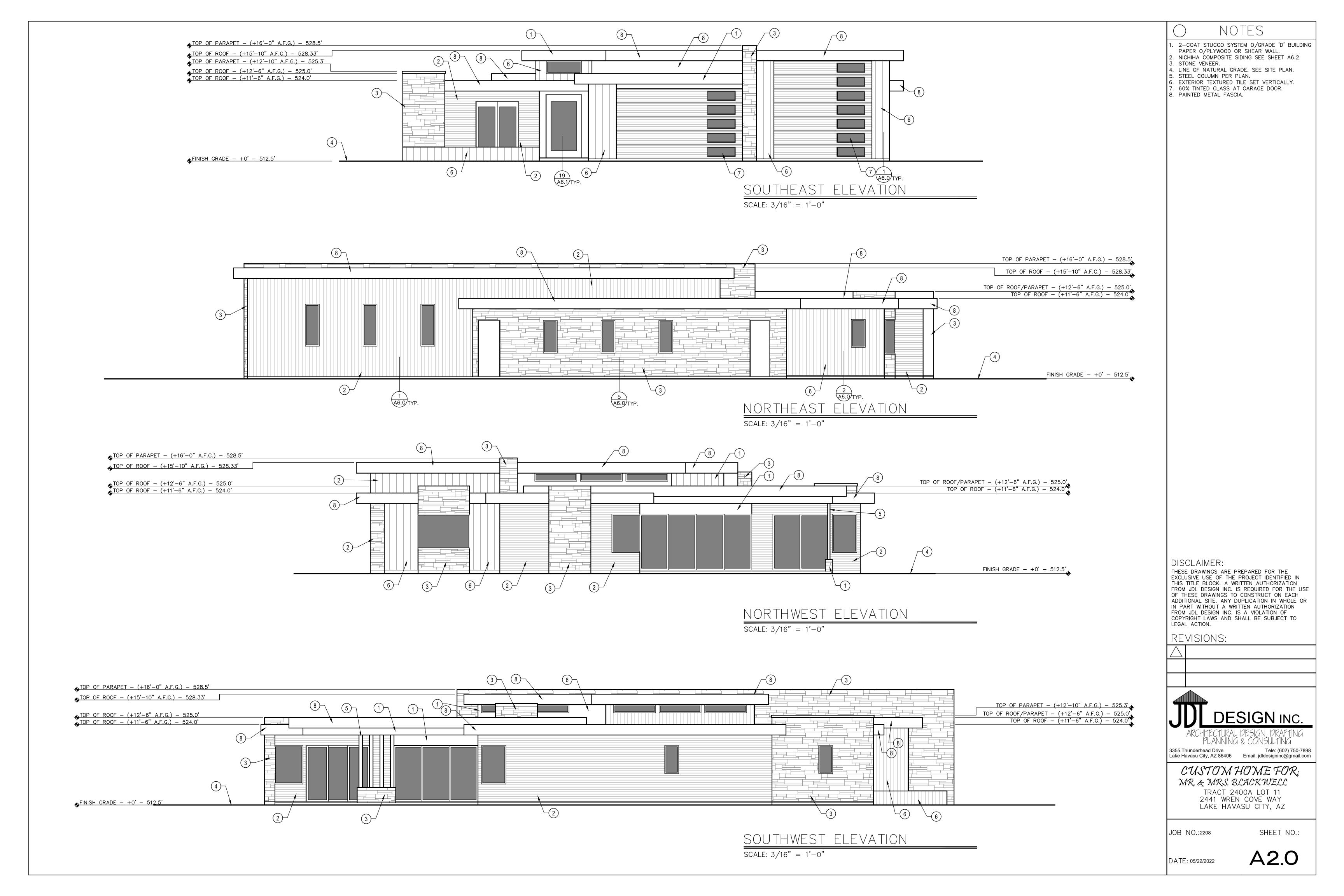
JOB NO.:2208

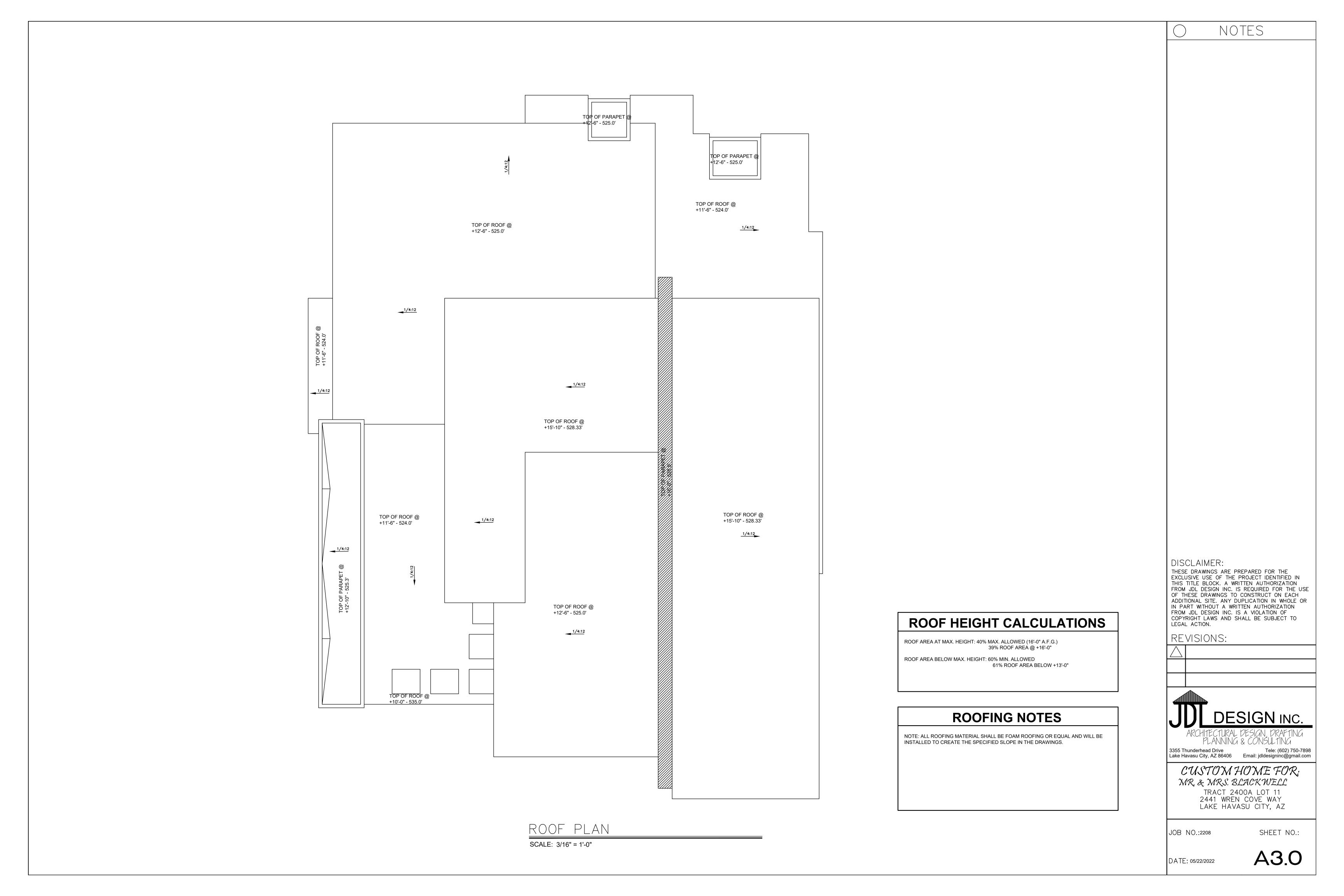
DATE: 05/22/2022

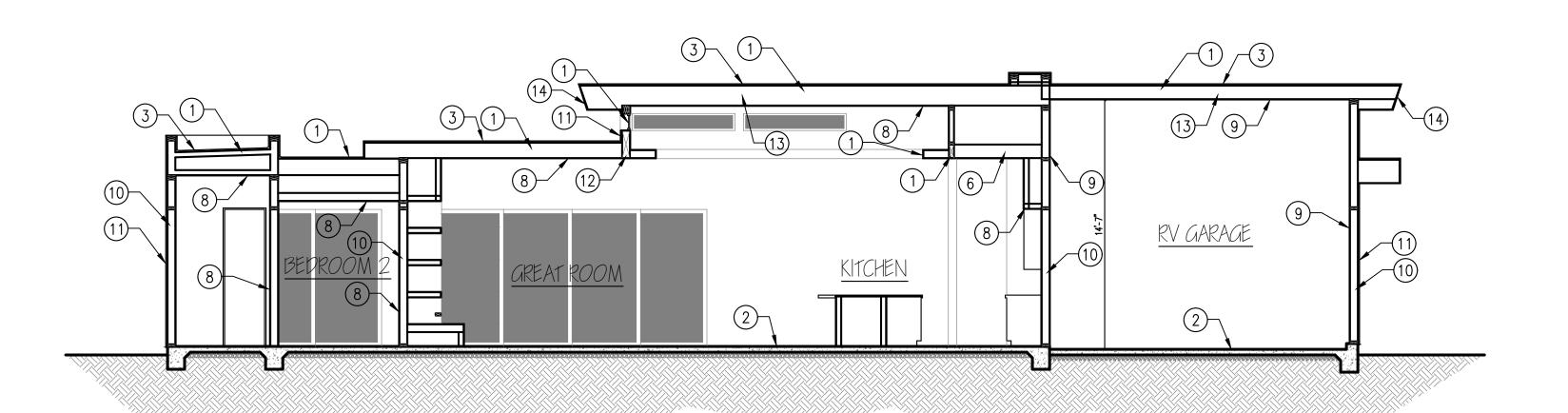
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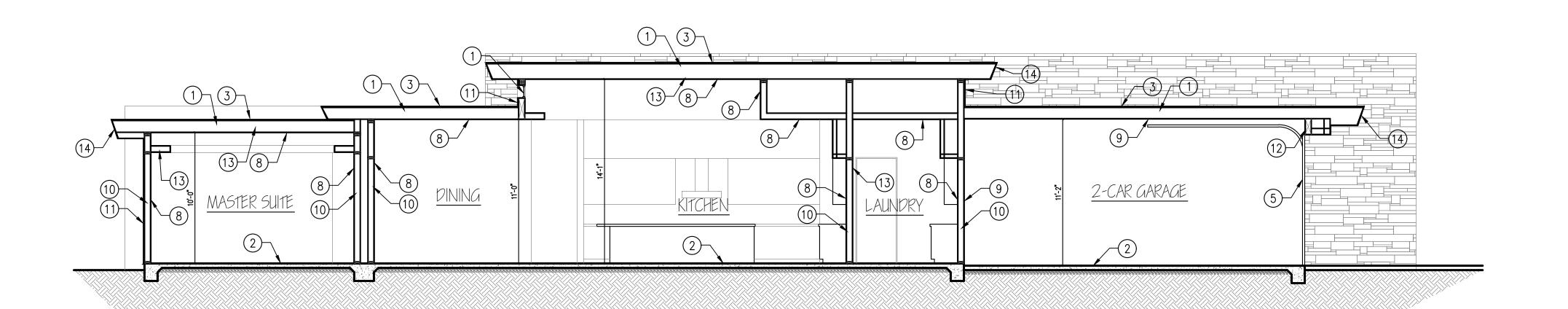








BUILDING SECTION - AA SCALE: 3/16" = 1'-0"



BUILDING SECTION - BB

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

NOTES

- 1 ROOF FRAMING W/RADIANT PLYWOOD.
 2 4" SLAB ON GRADE, SEE STRUCTURAL PLANS.
 3 FOAM ROOFING O/30# FELT.
 4 WINDOW, SEE WINDOW SCHEDULE, ELEVATIONS.
 5 DOOR, SEE DOOR SCHEDULE.
 6 2X CEILING JOIST, SEE STRUCTURAL.
 7 2X4 STUD @ 16" O.C.

- 8 1/2" GYPSUM WALLBOARD. 9 5/8" TYPE 'X' GYPSUM WALLBOARD.
- 10 2X6 STUD @ 16" O.C. W/R-19 BATT INSULATION.
- 11 2-COAT STUCCO SYSTEM O/GRADE 'D' BUILDING PAPER O/PLYWOOD OR SHEAR WALL.
- 12 BEAM, SEE STRUCTURAL PLANS.
 13 R-38 ATTIC INSULATION.
- 14 METAL WRAPPED FASCIA.

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CUSTOM HOME FOR:

MR, & MRS. BLACKWELL

TRACT 2400A LOT 11 2441 WREN COVE WAY LAKE HAVASU CITY, AZ

JOB NO.:2208

SHEET NO .:

DATE: 05/22/2022

A4.0

					DOC	R SO	CHEDULE:													WIND) () ()	SCH	HEDUI	LE:		
REF.	DESCRIPTION	QTY.	SIZE	TYPE	DOOR	1	FIRE-RATED	OOR FINISH	MTRL	SILL HEIGHT A.F.F.	U FACTOR	SHGC	VT VALUE	REMARKS	REF.	DESCRIPTION	QTY.	SIZE	TYPE	WINDO)W GLA	155	STYLE	DOOR FINISH	Тм	
AA	GARAGE DOOR	1	18'-0" X 10'-0"	RU	MANU	WD WD		PT	WD	- -					A	WINDOW	1	50110	FIXED	DP	CLR.	LE	CS	WHT	,	
ВВ	GARAGE DOOR	1	14'-0" X 14'-0"	RU	MANU	WD		PT	WD	-					B	MITER WINDOW	1	26562656	FIXED	DP	CLR.	LE	CS	WHT	,	
СС	CUSTOM PIVOT ENTRY DOOR	1	5'-0" x 9'-0"	WD	MANU	WD		PT	WD	-				GLAZING MUST BE TEMPERED GLASS	C	WINDOW	1	3080	FIXED	DP	CLR.	LE	CS	WHT	,	
DD	1-3/4" SC DOOR	1	3'-0" x 8'-0"	WD	MANU	WD	20-MIN	PT	WD	-				LOCKSET/DEADBOLT 20 MIN. FIRE-RATED, GASKETED, SELF-CLOSING, SELF-LATCHING	D	WINDOW	2	2040	CAS	DP	CLR.	LE	CS	WHT	\	
EE	SC DOOR	1	3'-0" x 8'-0"	WD	MANU	WD		PT	WD	-				THRESHOLD, WEATHERSTRIPPING, LOCKSET/DEADBOLT	E	WINDOW	2	3656	CAS	DP	CLR.	LE	CS	WHT	,	
FF	HC DOOR	1	2'-10" x 8'-0"	WD	MANU	WD		PT	WD	-					F	MITER WINDOW	1	1650- 74501650	FIXED	DP	CLR.	LE	cs	WHT		
GG	HC DOOR	1	3'-0" x 8'-0"	WD	MANU	WD		PT	WD	-					G	WINDOW	3	2046	FIXED	DP	CLR.	LE	CS	WHT	,	
НН	SINGLE FRENCH DOOR	1	3'-0" X 8'-0"	WD	MANU	WD		PT	WD	-				THRESHOLD, WEATHERSTRIPPING, LOCKSET/DEADBOLT/TEMP. GLASS	H	WINDOW	9	60110	FIXED	DP	CLR.	LE	CS	WHT		
JJ	HC DOOR	2	2'-8" x 8'-0"	WD	MANU	WD		PT	WD	-				PROVIDE PRIVACY LOCKS AT BATHROOM(S) & TOILET ROOM(S) ONLY	J	WINDOW	1	3650	FIXED	DP	CLR.	LE	CS	WHT		
KK	HC DOOR	4	2'-4" x 8'-0"	WD	MANU	WD		PT	WD	-				PROVIDE PRIVACY LOCKS	K	WINDOW	3	2060	FIXED	DP	CLR.	LE	CS	WHT		
LL	HC DOOR	3	2'-4" x 8'-0"	WD	MANU	WD		PT	WD	-				PROVIDE PRIVACY LOCKS	L	MITER WINDOW	1	40564056	FIXED	DP	CLR.	LE	CS	WHT		
MM	BARN DOOR	1	3'-0" x 8'-0"	WD	MANU	WD		PT	WD	-					AT —	<u>ABBREVIATI</u> — ARCHED TOP I		MATERIAL		1.	INDOW SCHEDULE NOTES: 7. WINDOWS ALL WINDOW ARE TO BE STANDAR SUPPLIED BY OTHERS UNLESS MIN. STAI					
NN	SLIDER	1	8'-0" X 8'-0"	SL	MANU	WD		PT	WD	-				GLAZING MUST BE TEMPERED GLASS				OBSCURED	NDON	2.	NOTED OTH	HERWISE. -ABLE WIN	NDOWS SHALI	8. ALL _L EDGE	WIND E OF OR WIN	
PP	3-PANEL SLIDER	1	12'-0" X 8'-0"	SL	MANU	WD		PT	WD	-				GLAZING MUST BE TEMPERED GLASS	DP -	CS — CLASSIC STYLE PW — PICTURE WINDOW DP — DUAL PANE R — RENAINNASSANCE				3.	ALL WINDO INSTALLED SPECIFICAT	OWS SHALL TO MANU TION.	_ BE JFACTURE'S	TEMF 9. BOT	PEREI TOM 18" H	
RR	4-PANEL SLIDER	1	16'-0" X 8'-0"	SL	MANU	WD		PT	WD	-				GLAZING MUST BE TEMPERED GLASS	HR — HALF ROUND TEMP — TEMPERED GLASS 4. 44" MAX. SILL HEIGHT F WINDOWS USED AS EMER EXISTS.					EMERGENCY	FLOO GLAS 10. GLAZ	OR SI SS. ZING				
SS	PIVOT DOOR	1	4'-0" x 8'-0"	WD	MANU	WD		PT	WD	-						— HORIZONTAL SLIDER — LOW—E	VY —— WHT——			6.	EQUAL OR WINDOW SI	BE LESS ZES ARE		STRA EDGE	ASURE AIGHT E OF	
ТТ	3-PANEL SLIDER	1	9'-0" x 8'-0"	SL	MANU	WD		PT	WD	-				TEMPERED GLASS		— METAL — CASEMENT						S: WIDTH	> 18" × HEIGHT OI TEST LEG OF)F ROOI - AND	RLPOO DMS, I D INDO MMINO	
UU	HC DOOR	2	2'-6" x 8'-0"	WD	MANU	WD		PT	WD	-				VENTED AT FAU CLOSET							7.11.011.				TOM	

WD

DOOR SCHEDULE NOTES: ALL EXTERIOR GLASS DOOR(S) SHALL BE TEMPERED.

2'-6" x 8'-0"

2'-8" x 8'-0"

ALL EXTERIOR DOOR(S) LEADING TO BUILDING SHALL HAVE AN ALUMINUM THRESHOLD(S) AND BE

WD

WD

PT

FULLY WEATHERED STRIPPING.

AS PER CBC STANDARDS PROVIDE THE FOLLOWING:

MANU

MANU

3.1. ALL WATER HEATER ROOM(S) SHALL HAVE CEILING FURRED DOWN TO 7'-0".

PROVIDE 1 3/8" SOLID CORE DOOR W/ SELF CLOSER AT THE DOOR.

PROVIDE DEAD BOLTS AND KEYED LOCK AT ALL EXTERIOR DOOR(S). PROVIDE STEEL PLAT AT THE DEAD BOLT STRIKER, SOLID SHIM 6" ABOVE AND BELOW WITH (2) #8x2" SCREWS.

ALL WATER HEATER ROOMS SHALL HAVE CEILINGS FURRED DOWN TO 7'-0".

WD

PROVIDE A 1 3/8" SOLID CORE DOOR W/ SELF CLOSER AT THE DOOR.

MINIMUM WIDTH OF DOOR OPENINGS SHALL BE A CLEAR WIDTH OF 36" FOR ACCESSIBILITY.

ALL SHOWER DOORS SHALL BE TEMPERED GLASS GLAZING.

IF A NEW TANK WATER HEATER IS INSTALLED, PROVIDE COMBUSTION AIR VENTILATION PER CALCULATIONS BELOW.

DOORS BETWEEN THE RESIDENCE AND THE PRIVATE GARAGE SHALL BE SELF-

CLOSING AND SELF-LATCHING WHEN BOTH THE GARAGE AND THE RESIDENCE ARE PROTECTED BY AN AUTOMATIC RESIDENTIAL FIRE-SPRINKLER SYSTEM IN ACCORDANCE WITH SECTION R309.6 AND R313.

11. VERTICAL DROP AT EXTERIOR DOORS SHALL NOT EXCEED 7-3/4".

10. EXTERIOR DOOR WIDTH SHALL BE A MINIMUM OF 36"

ST — STAINLESS STEEL FINISH

SL —— SLIDING GLASS DOOR (TEMPERED)

SF STOREFRONT DOOR (TEMPERED)

SD — SLIDING DOOR (WOOD)

HC POCKET DOOR

SC DOOR

<u>ABBREVIATION</u>

AL — ALUMINUM

ANOD — ANODIZED

CU — CUSTOM

E — EXISTING

DBL. — DOUBLE DOOR

GA — GARAGE DOOR

HC — HOLLOW CORE

MANU- MANUFACTURER

PD — POCKET DOOR

RU ---- ROLL-UP DOOR

SC — SOLID CORE

MTL — METAL (STEEL OR ALUM)

PT —— PAINT TO MATCH EXISTING

AT — ARCHED TOP

BD — SLIDING BARN DOOR

BP —— BYPASS CLOSET DOOR

CLR — CLEAR DUAL-GLAZED LOW-E

FD — FRENCH DOOR (TEMPERED)

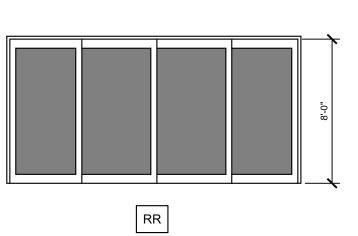
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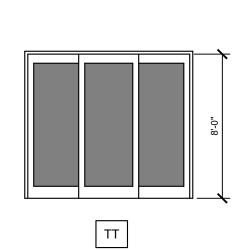
TEMP — TEMPERED

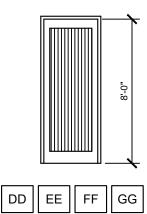
VD — DOOR W/ COMBUSTION AIR VENTS

WD WOOD

15 A11 TYP. ✓ 16 \ | A11 TYP. NN 19 A11 TYP. НН







| บบ || vv || xx |

	, O, 88
EE FF	GG

THRESHOLD, WEATHERSTRIPPING,

LOCKSET/DEADBOLT

MIN. STANDARDS. 8. ALL WINDOWS WITHIN OF 24"

WINDOWS TO MEET MINIMUM STANDARDS AS ESTABLISHED BY EDGE OF ADJACENT DOORS AND 11. / OR WINDOWS SHALL BE TEMPERED GLASS. JRE'S 9. BOTTOM OF ALL WINDOWS WITHIN OF 18" HEIGHT OF FINISHED FLOOR SHALL BE TEMPERED

HEIGHT

A.F.F

96"

96"

96"

96"

96"

96"

166"

96"

124"

96"

MTRL

VY

10. GLAZING WITHIN 60 INCHES (MEASURED HORIZONTALLY IN A STRAIGHT LINE) OF THE WATER EDGE OF HOT TUBS, SPAS, WHIRLPOOLS, SAUNAS, STEAM ROOMS, BATHTUBS, SHOWERS, AND INDOOR OR OUTDOOR SWIMMING POOLS WHERE THE BOTTOM EDGE OF THE WINDOW

IS LESS THAN 60 INCHES MEASURED VERTICALLY ABOVE ANY STANDING OR WALKING

EGRESS

--

REMARKS

FRENCH/

TEMPERED

TEMPERED

TEMPERED

TEMPERED

TEMPERED

FACTOR SHGC VALUE OPENING

0.50

0.29 0.22 0.50

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WINDOWS WITHIN 36" (MEASURED HORIZONTALLY IN A STRAIGHT LINE) TO A WALKING SURFACE WITH INDIVIDUAL PANE(S) GREATER THAN NINE SQUARE FEET, WHERE TOP EDGE IS GREATER THAN 36 INCHES AND BOTTOM EDGE IS LESS THAN 18 INCHES ABOVE THE FLOOR.

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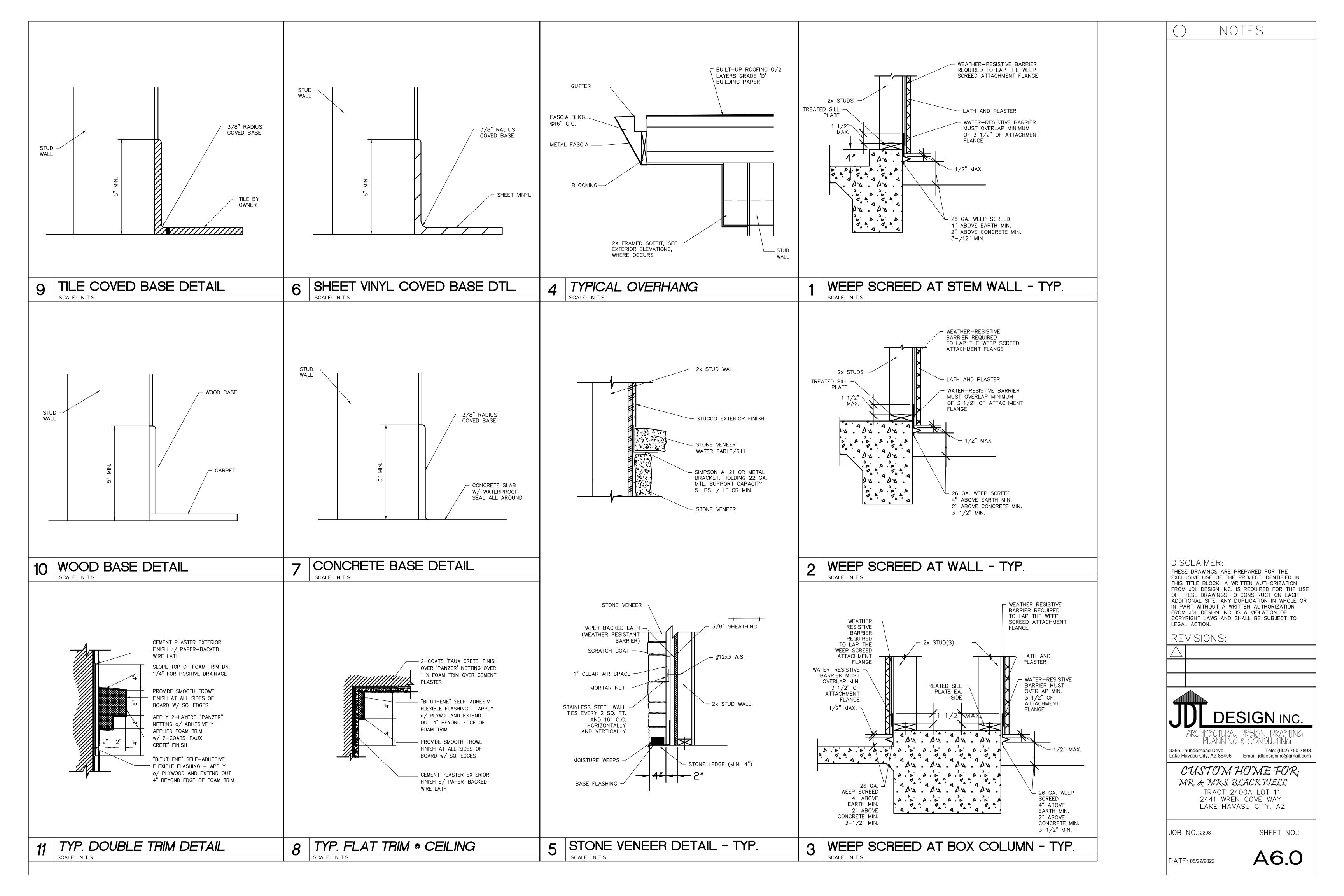
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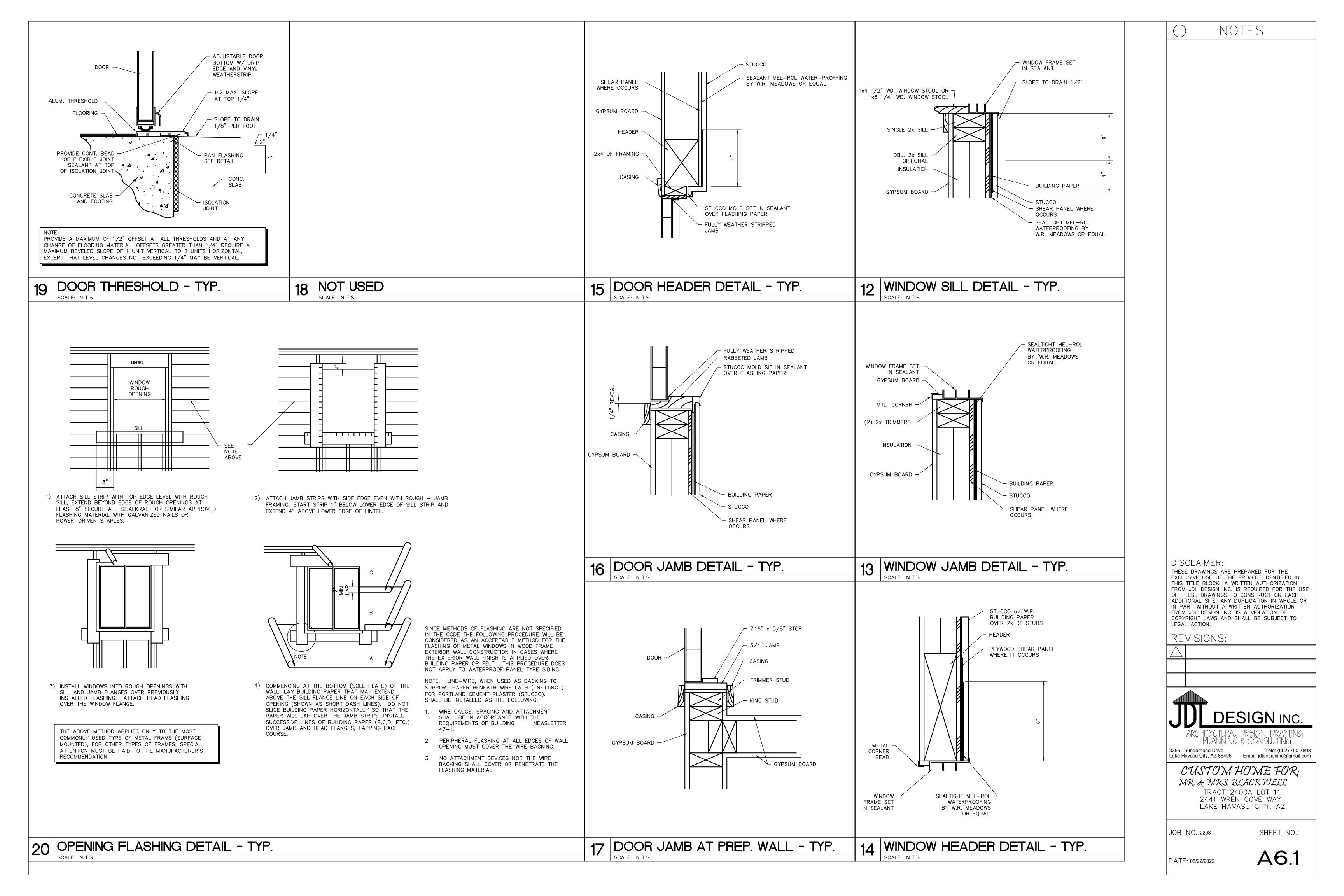
CUSTOM HOME FOR: MR. & MRS. BLACKWELL TRACT 2400A LOT 11 2441 WREN COVE WAY LAKE HAVASU CITY, AZ

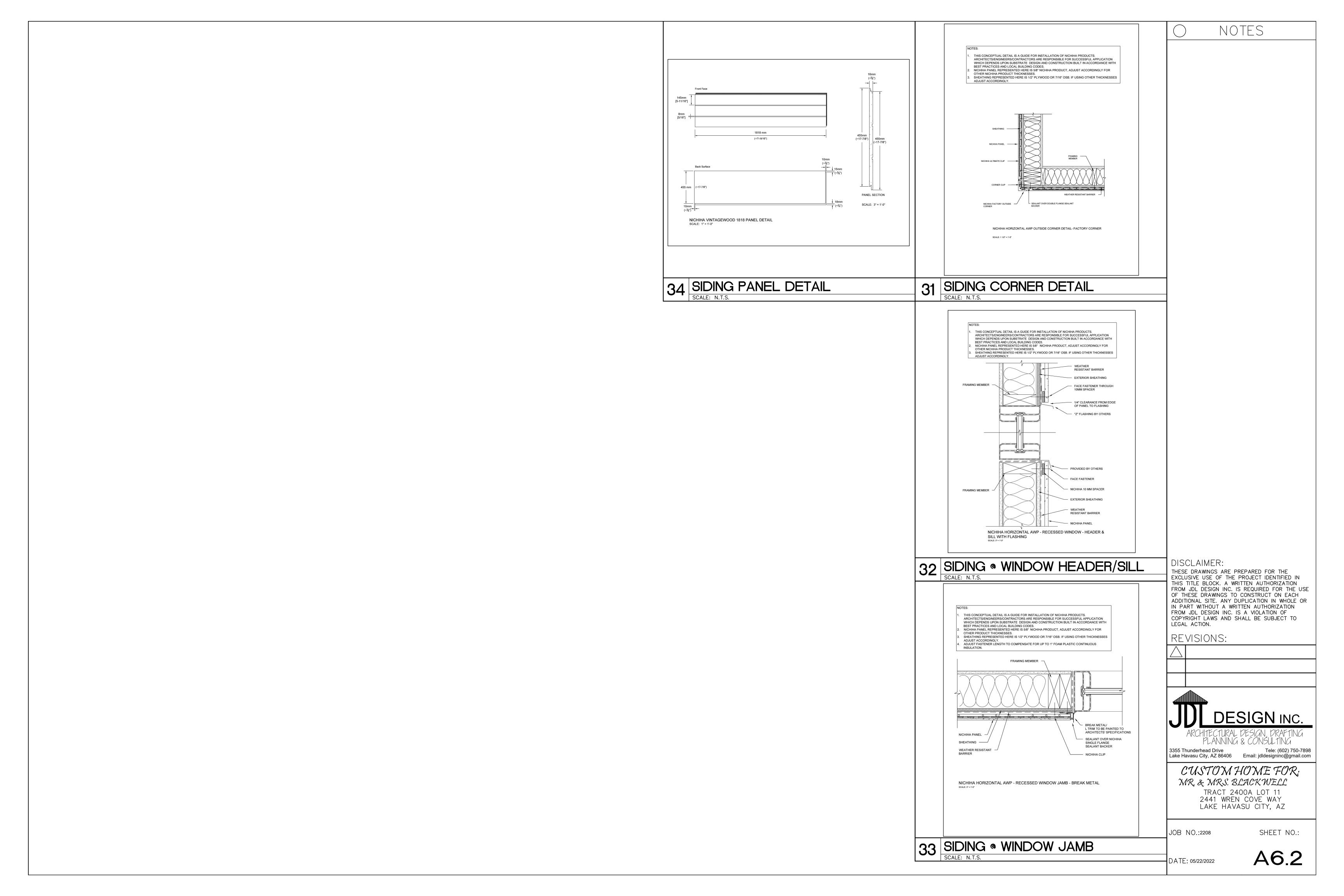
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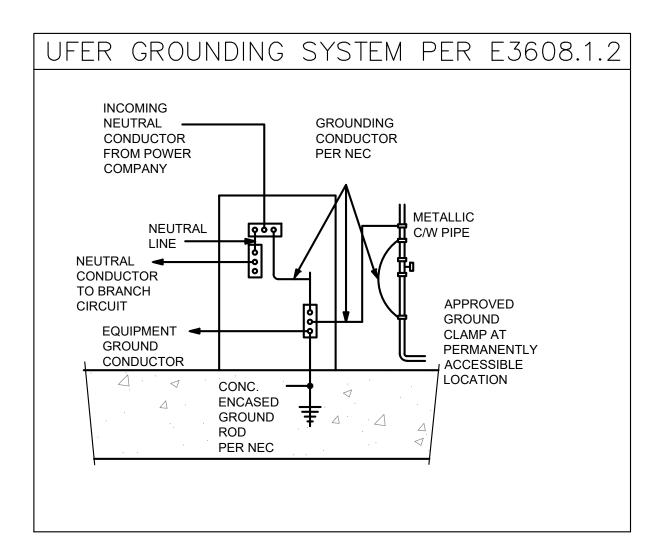
DATE: 05/22/2022







<u>ELECTRICAL</u>	LOAD CALCUL	<u>ATIONS</u>
TOTAL LIVEABLE SQ. FT. = 3,339 6 SMALL APPLIANCE CIRCUITS 1 CLOTHES WASHER CIRCUIT 1 MICROWAVE CIRCUIT 1 DISHWASHER CIRCUIT 1 CLOTHES DRYER CIRCUIT 1 OVEN CIRCUIT	@ 3 WATTS = @ 1500 WATTS = @ 1500 WATTS = @ 1500 WATTS = @ 1500 WATTS = @ 5000 WATTS = @ 8000 WATTS =	10,017 WATTS 9,000 WATTS 1,500 WATTS 1,500 WATTS 1,500 WATTS 5,000 WATTS 8,000 WATTS
SUBTOTAL =		36,517 WATTS
FIRST 10,000 WATTS BALANCE OF 26,517 WATTS X 0.4 =	@ 100% = @ 40% =	10,000 WATTS 10,607 WATTS
TOTAL WATTS =		20,607 WATTS
TOTAL AMPS: 20,607 DIVIDED BY 240 VOLTS =		86 AMPS
HVAC UNIT #1 (MAX.) = HVAC UNIT #2 (MAX.) = RV CIRCUIT =		40 AMPS 40 AMPS 50 AMPS
PROPOSED AMP USE =		400 AMPS



RECEPTACLE AND SWITCH NOTES GENERAL ELECTRICAL NOTES

- ALL RECEPTACLES MUST BE LOCATED BETWEEN 15" 48" ABOVE FINISHED FLOOR AND LIGHTING SWITCHES 48" ABOVE THE FINISHED FLOOR OR
 - BATHROOM LIGHT(S) AND GFCI RECEPTACLE(S) SHALL BE ON A SINGLE SEPARATE CIRCUIT.
- BATHROOM LIGHTS SHALL BE FLUORESCENT OR HIGH EFFICIENCY LIGHT
- RECESSED LIGHTS IN INSULATED CEILINGS MUST HAVE THE FOLLOWING REQUIREMENTS:
- 4.A. RATED I.C.
- CERTIFIED AIR TIGHT.
- 4.C. HAVE SEALED GASKET OR CAULK BETWEEN HOUSING AND CEILING.
- ALL FIXTURES, OUTLETS, AND EQUIPMENT MOUNTED IN / ON THE BUILDING EXTERIOR SHALL BE UL APPROVED FOR WET LOCATION INSTALLATION. PARTIALLY PROTECTED FIXTURES, DEVICES, AND EQUIPMENT MOUNTED SHALL BE UL APPROVED FOR DAMP LOCATION INSTALLATION. RECEPTACLES IN DAMP OR WET LOCATIONS SHALL BE MARKED SUITABLE FOR WET LOCATIONS. E4003.2
- 6. PROVIDE GFCI RECEPTACLES IN ALL BATHROOM(S) ADJACENT TO EACH BASIN
- OUTDOOR RECEPTACLES MUST BE WEATHERPROOFED AND GFCI.
- 8. PROVIDE SWITCHED LIGHTING FIXTURES AT ALL EXIT DOORS.
- 9. GARAGE DOOR OPENER RECEPTACLES SHALL BE ACCESSIBLE GFI.
- 10. RECEPTACLES IN HABITABLE ROOMS SHALL BE SPACED SUCH THAT NO POINT ALONG THE FLOOR LINE IN ANY WALL SPACE IS MORE THAN 6 FT. FROM ANY

OUTLET. ANY WALL SPACE 2 FT. OR WIDER SHALL HAVE AN OUTLET. E3901.2

- 11. GFI REQUIRED IN ALL BATHROOMS, KITCHENS AT COUNTER TOPS, BASEMENTS, GARAGE, AND OUTDOORS. E3902
- 12. PROVIDE BATHROOM RECEPTACLES WITH A SEPARATE 20 AMP CIRCUIT. E3703.4
- 13. ARC FAULT PROTECTION FOR ALL BRANCH CIRCUITS THAT SUPPLY 120-VOLTS, SINGLE PHASE 15 & 20 AMP OUTLETS INSTALLED IN FAMILY ROOMS, DINING ROOMS, BED ROOMS, LIVING ROMS, SUN ROOMS OR RECREATION, DEN PARLOR, HALLWAYS AND SIMILAR ROOMS. A COMBINATION TYPE OR BRANCH FEEDER TYPE ARC-FAULT CIRCUIT INTERRUPTER INSTALLED TO PROVIDE PROTECTION OF THE ENTIRE BRANCH CIRCUIT. E3092.12
- 14. IN AREAS SPECIFIED IN SECTION E3901.1, ALL 125 VOLT, 15 AND 20 AMPERE RECEPTACLES SHALL BE LISTED TAMPER-RESISTANT-RECEPTACLES. E400.14
- 15. FACEPLATE GROUNDING SNAP SWITCH, INCLUDING DIMMER AND SIMILAR CONTROL SWITCHES, SHALL BE EFFECTIVELY GROUNDED AND SHALL PROVIDE A MEANS TO GROUND METAL FACE PLATES, WHETHER OR NOT A METAL FACE PLATE IS INSTALLED. E4001.11.1

- WORKMANSHIP SHALL BE OF THE HIGHEST ORDER, PER NEC ARTICLE 110-12. ANY DEFECTIVE OR DAMAGED EQUIPMENT SHALL BE REPLACED OR REPAIRED IN A MANNER MEETING WITH THE APPROVAL OF THE ARCHITECT/ENGINEER AT NO ADDITIONAL COST TO THE OWNER. ELECTRICAL INSTALLATION SHALL BE IN ACCORDANCE WITH NEC STANDARDS.
- ELECTRICAL PLANS ARE DIAGRAMMATIC ONLY. ALL CONDUIT SHALL BE ROUTED AND CONCEALED UNLESS NOTED ON PLAN OR APPROVED BY THE ARCHITECT/ENGINEER. ROUTING OF RACEWAYS SHALL BE AT THE OPTION OF THE ELECTRICAL CONTRACTOR, UON, AND SHALL BE COORDINATED WITH OTHER TRADES. DO NOT SCALE THE ELECTRICAL PLANS FOR LOCATIONS OF ANY ELECTRICAL, ARCHITECTURAL, STRUCTURAL, CIVIL, OR MECHANICAL EQUIPMENT, ITEMS, OR FEATURES.
- COORDINATE ELECTRICAL PANEL AND TERMINAL CABINET LOCATIONS AND ROUTING OF CONDUITS WITH FRAMING CONTRACTOR PRIOR TO BEGINNING ANY ROUGH-IN WORK FOR SPECIFIC EQUIPMENT.
- 4. WHERE EXISTING CONDUIT IS BEING REUSED ON THE SITE, NEW CONDUCTORS SHALL BE PULLED CONTINUOUS AND UN-SPLICED THROUGH THE EXISTING RACEWAY, RE-PULLING EXISTING CONDUCTORS AS REQUIRED AND PROVIDE A PULL ROPE IN THE EXISTING CONDUIT.
- INSTALL ELECTRICAL EQUIPMENT, LIGHTING, AND RECEPTACLES PER LATEST
- 6. INSTALL NEUTRAL PER EACH CIRCUIT SEPARATELY.
- 7. 120 VOLT CIRCUIT SHALL BE #12 THHN MIN.
- 8. ALL CONDUITS SHALL BE EQUIPPED WITH EQUIPMENT GROUND CONDUCTOR PER NEC ARTICLE 250.
- 9. A FOUR WIRE BRANCH CIRCUIT IS REQUIRED FOR ALL 240 VOLT CIRCUITS SERVING COOKING EQUIPMENT AND CLOTHES DRYER LOCATIONS.
- 10. MAIN SERVICE AND ALL ELECTRICAL EQUIPMENT (SWITCHGEAR, DISTRIBUTION PANELS) SHALL BE LOCALLY GROUNDED PER NEC ARTICLE 250.
- 11. PROVIDE MIN. 8 FOOT LONG X 5/8" DIAMETER DRIVEN ROD AS A MAIN GROUNDING MECHANISM. UFER GROUND REQUIRED.
- 12. PROVIDE DESIGNATED 20 AMP CIRCUITS FOR THE FOLLOWING CIRCUITRY: 12.A. THE TWO SMALL APPLIANCE BRANCH CIRCUITS SERVING THE
 - KITCHEN. 12.B. BATHROOMS.
- 12.C. LAUNDRY ROOMS.
- 12.D. BUILT-IN MICROWAVE OVENS.
- 15. INCANDESCENT LIGHTS CANNOT BE CLOSER THAN 12" FROM THE NEAREST POINT OF A STORAGE AREA ON SHELF IN CLOTHES CLOSETS (AS MEASURED FROM THE FRONT VERTICAL PLANE). OPEN OR PARTIALLY ENCLOSED INCANDESCENT FIXTURES SHALL NOT BE PERMITTED IN CLOTHES CLOSETS.
- 16. LIGHTING IN BATHROOMS AND KITCHEN SHALL HAVE AN EFFICACY RATING OF AT LEAST 40 LUMENS PER WATT.
- 17. SMOKE DETECTORS SHALL RECEIVE THEIR PRIMARY POWER FROM THE BUILDING'S WIRING AND SHALL BE EQUIPPED WITH A BATTERY BACKUP. THE ALARM SHALL BE AUDIBLE IN ALL SLEEPING AREAS OF THE BUILDING.
- 19. CLOTHES DRYER AND ELECTRIC RANGES SHALL HAVE A 4-WIRE GROUNDED ELECTRICAL OUTLET.
- 20. CARBON MONOXIDE DETECTORS SHALL BE INSTALLED IN DWELLING UNITS AND SLEEPING UNITS WITHIN WHICH FUEL-BURNING APPLIANCES ARE INSTALLED AND IN DWELLING UNITS THAT HAVE ATTACHED GARAGES. CARBON MONOXIDE DETECTORS SHALL BE LOCATED OUTSIDE OF EACH SEPARATE SLEEPING AREA(S) IN THE IMMEDIATE VICINITY OF BEDROOMS. CARBON MONOXIDE DETECTORS SHALL RECEIVE THEIR PRIMARY POWER FROM THE BUILDING'S WIRING AND SHALL BE EQUIPPED WITH A BATTERY BACKUP. WIRING SHALL BE PERMANENT AND WITHOUT A DISCONNECTING SWITCH OTHER THAN AS REQUIRED FOR OVERCURRENT PROTECTION.
- 21. CEILING FANS SHALL BE SUPPORTED BY OUTLET BOXES LISTED FOR SUCH USE OR BRACE INDEPENDENTLY OF OUTLET BOX.
- 22. RECESSED INCANDESCENT LIGHTS SHALL MAINTAIN A 3 INCH CLEARANCE TO INSULATION OR BE LISTED TO HAVE INSULATION IN DIRECT CONTACT WITH THE FIXTURE.
- 23. LUMINAIRES IN WET OR DAMP LOCATIONS SHALL BE MARKED SUITABLE FOR WET LOCATIONS. E4003.2
- 24. PROVIDE 2 OR MORE 20AMP SMALL APPLIANCE BRANCH CIRCUITS IN THE
- KITCHEN. E3703.2
- 25. SMOKE DETECTORS REQUIRE A 3'-0" MINIMUM SEPARATION FROM A/C/ VENTS, CEILING FANS AND BATHROOM DOORS.
- 26. RECEPTACLES AT KITCHEN ISLAND REQUIRE TO BE INSTALLED MAXIMUM 12" BELOW THE COUNTER TOP WITH A 6" MAXIMUM OVERHANG PER E3901.4.5.

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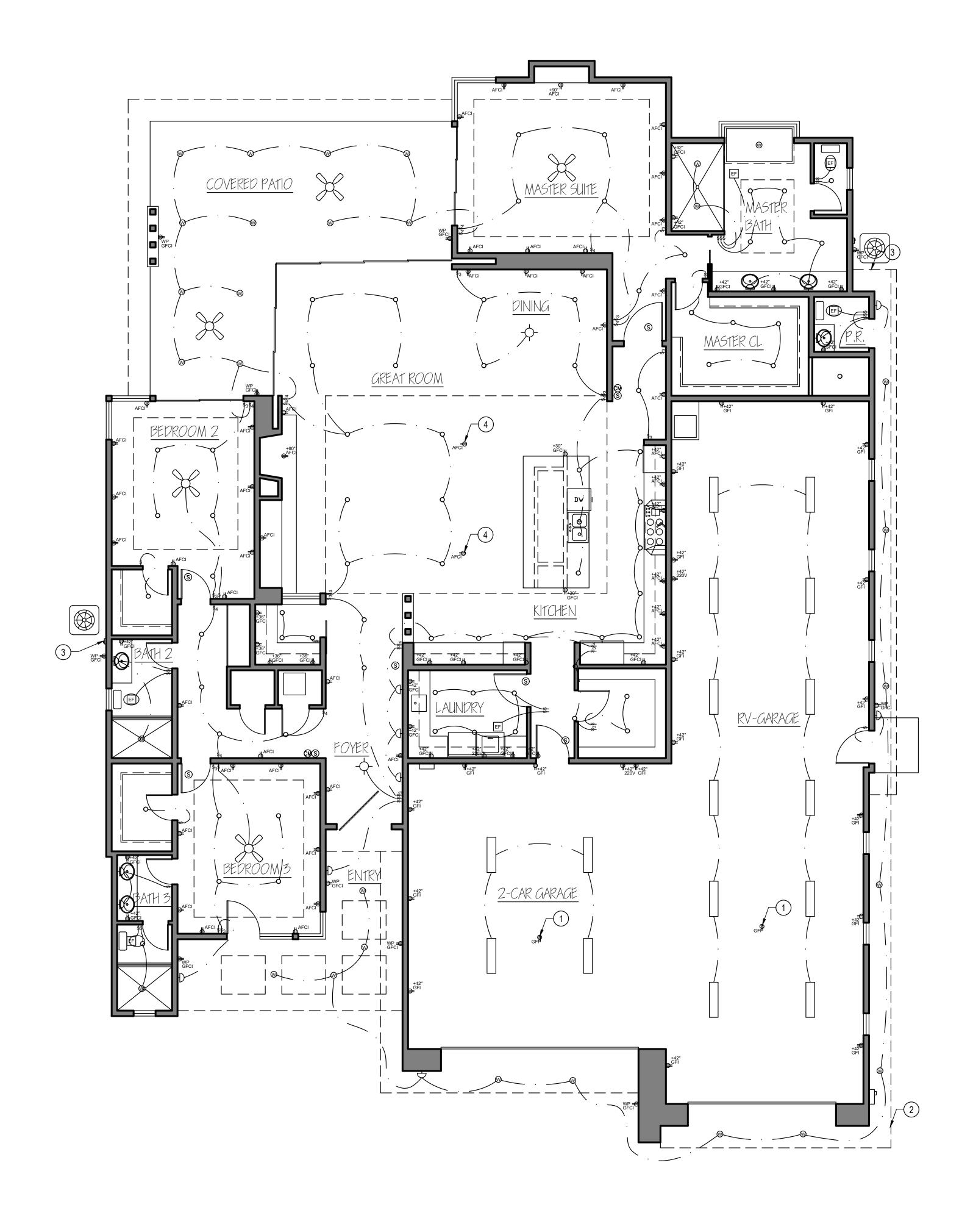
CUSTOM HOME FOR: MR. & MRS. BLACKWELL

TRACT 2400A LOT 11 2441 WREN COVE WAY LAKE HAVASU CITY, AZ

JOB NO.:2208

SHEET NO .:

DATE: 05/22/2022



ELECTRICAL/LIGHTING PLAN SCALE: 3/16" = 1'-0"

NOTES

PROVIDE DUPLEX OUTLET IN CELING FOR OPENER. 400 AMP SERVICE PANEL. 3 220V DISCONNECT FOR ROOF-MOUNTED A/C

4 FLOOR MOUNTED AFI RECEPTACLE.

LIGHTING SYMBOLS

SYMBOL DESCRIPTION

SINGLE POLE SWITCH

THREE-WAY SWITCH

FOUR-WAY SWITCH

DIMMER SWITCH

DIMMER SWITCH/ 3-WAY

DIMMER SWITCH/ 4-WAY 6" DIA. RECESSED

DOWNLIGHT

6" DIA. RECESSED

EXTERIOR AND WET AREAS

6" DIA. RECESSED LED DOWNLIGHT

PENDANT LIGHT

MINI-PENDANT LIGHT

UNDERSHELF/ UNDERCABINET

STRIP LIGHTING SINGLE SIDE-MOUNT STRIP FLUORESCENT

DECK LIGHT

WALL MOUNTED STAIR LIGHT

6" WALL WASHER

4' SURFACE MOUNTED 2 TUBE LED FIXTURE

CEILING FAN/ LIGHT

BATH EXHAUST

HARD-WIRED SMOKE DETECTOR W/BATTERY BACKUP WALL SCONCE

HALOGEN FLOOD LIGHT

CELING MOUNTED LIGHT

HARD-WIRED CARBON-MONOXIDE DETECTOR W/BATTERY BACKUP

ARC-FAULT CIRCUIT INTERRUPTER DUPLEX OUTLET

GROUND-FAULT CIRCUIT INTERRUPTER DUPLEX OUTLET

DUPLEX OUTLET

DOOR BELL

EXTERIOR PHOTO CELL SWITCH

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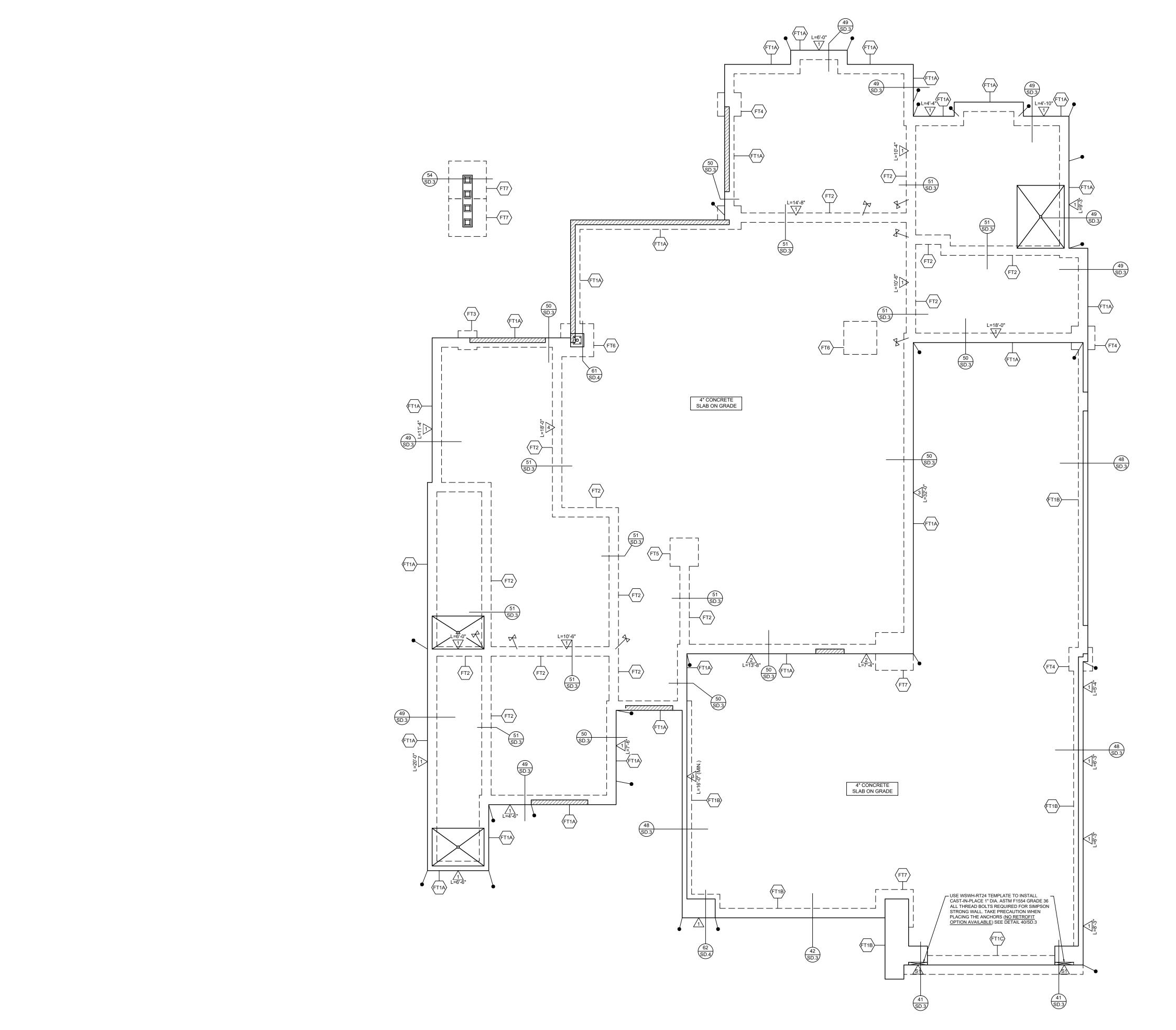
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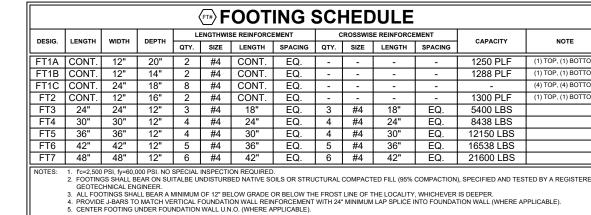
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HOLDOWN SCHEDULE

ı	STWIDUL	HOLDOWN/STRAP
l		LSTHD8 HOLDOWN
l	_	SEE DETAIL 15/SD.1
l		HDU4-SDS2.5 RETROFIT HOLDOWN w/ 5/8" DIA.
ı	$\overline{}$	A36 THREADED ROD ANCHOR EMBEDDED 6"
ı		INTO FOOTING w/ SIMPSON SET-XP EPOXY
ı		SEE DETAIL 56/SD.3

SIMPSON WSWH NOTES

STRONG WALL HIGH STRENGTH WOOD SHEAR WALLS SHALL BE INSTALLED AS PER SIMPSON SPECIFICATIONS.
WSWH MAY BE FIELD TRIMMED TO A MINIMUM HEIGHT OF 74%. (TRIM TOP OF WALL ONLY DO NOT TRIM FERM SIDES OF WALL ONLY - DO NOT TRIM FROM SIDES OR BOTTOM.
DRILLING HOLES IN WSWH IS NOT

ALLOWED EXCEPT AS SPECIFICALLY ALLOWED BY THE MANUFACTURER. (REFER TO SIMPSON SPECIFICATIONS) ANCHOR BOLT NUTS SHOULD BE FINGER TIGHT PLUS 1/2 TURN. TOP CONNECTION INSTALLS WITH A COMBINATION OF SDS25600 HEAVY-DUTY CONNECTOR SCREWS & SWS16150 STRONG-WALL SCREWS.

TAKE PRECAUTION WHEN INSTALLING CAST-IN-PLACE BOLTS AT CONCRETE FOUNDATION (NO RETROFIT OPTION IS AVAILABLE)

CONTACT SIMPSON REPRESENTATIVE GARY PUGMIRE (801-244-7430) WITH QUESTIONS REGARDING THE INSTALLATION OF SIMPSON STRONG

♥ SHEAR WALL SCHEDULE 14 8d NAILS 1½" 16 GAGE STAPLES X" ANCHOR BOLT CAPACITY EDGE FIELD EDGE FIELD WIND SEISMIC

- 1		78 OSB OK CDX FETWOOD	0	12	3/2	12	J 32 O.C.	555	241	2,4		
	2	¾" OSB OR CDX PLYWOOD	4"	12"	2" ⁶	12"	24" O.C.	495	350	2,4		
	3	½" GYPSUM OR BETTER	6"	12"	-	-	32" O.C.	90	90	4,		
	4	½" GYPSUM OR BETTER	4"	12"	-	-	32" O.C.	155	155	4,		
	S1	SIMPSON WSWH24x14 HIGH-STRENGTH WO	OD SHE	AR WA	LL - SEE	DETAILS	38/SD.2, 39/S	D.2, 40/	SD.2, & 41	SD.3		
	NOTES: 1. WALL STUDS ARE TO BE SPACED AT 16" O.C. U.N.O. 2. SHEATH ABOVE AND BELOW OPENINGS IN PERFORATED SHEAR WALLS AS PER THE ADJACENT SHEAR WALL DESIGNATION ON EACH SIDE OF THE OPENING. 3. USE (2) KING STUDS AT EACH END OF SHEAR PANELS (SHEAR WALL CHORDS) U.N.O. 4. ALL PANEL EDGES SHALL BE BLOCKED WITH 2x OR WIDER FRAMING WITH EDGE NAILING AT ALL SUPPORTS AND PANEL EDGES U.N.O. 5. WHEEDE BANELS ARE ADDITED AND SOTT BANELS OF A WALL AND AND IS SHAPING IS LESS THAN 8" OF C. ON ETHER SIDE BANEL CONTS SHALL BE DESTET TO EALL ON.											

5. WHERE PANELS ARE APPLIED ON BOTH FACES OF A WALL AND NAIL SPACING IS LESS I FIAN O O.C. ON LITTLE O.C., AND DIFFERENT FRAMING MEMBERS.
6. FRAMING AT ADJOINING PANEL EDGES AND SILL PLATES SHALL BE 3x OR WIDER FOR EDGE NAILING 3" O.C. OR LESS. NAILS AT ADJOINING PANEL EDGES AND INTO SILL PLATES SHALL BE STAGGERED. (DOUBLE 2x FRAMING STITCH-NAILED WITH STAGGERED 16d NAILS WITH SPACING EQUAL TO THE SHEAR WALL EDGE NAILING IS AN ADEQUATE SUBSTITUTE FOR 3x FRAMING.)
7. FASTENERS FOR SHEET ROCK SHEAR WALLS SHALL BE NO. 6 TYPE S OR W DRYWALL SCREWS 1½" LONG IN LIEU OF 8d NAILS.

- A Utah Corporation -

SURVEYORS

ENGINEERS

PLANNERS 3302 N. Main Street

Spanish Fork, UT 84660 Phone: 801.798.0555 Fax: 801.798.9393 office@lei-eng.com www.lei-eng.com



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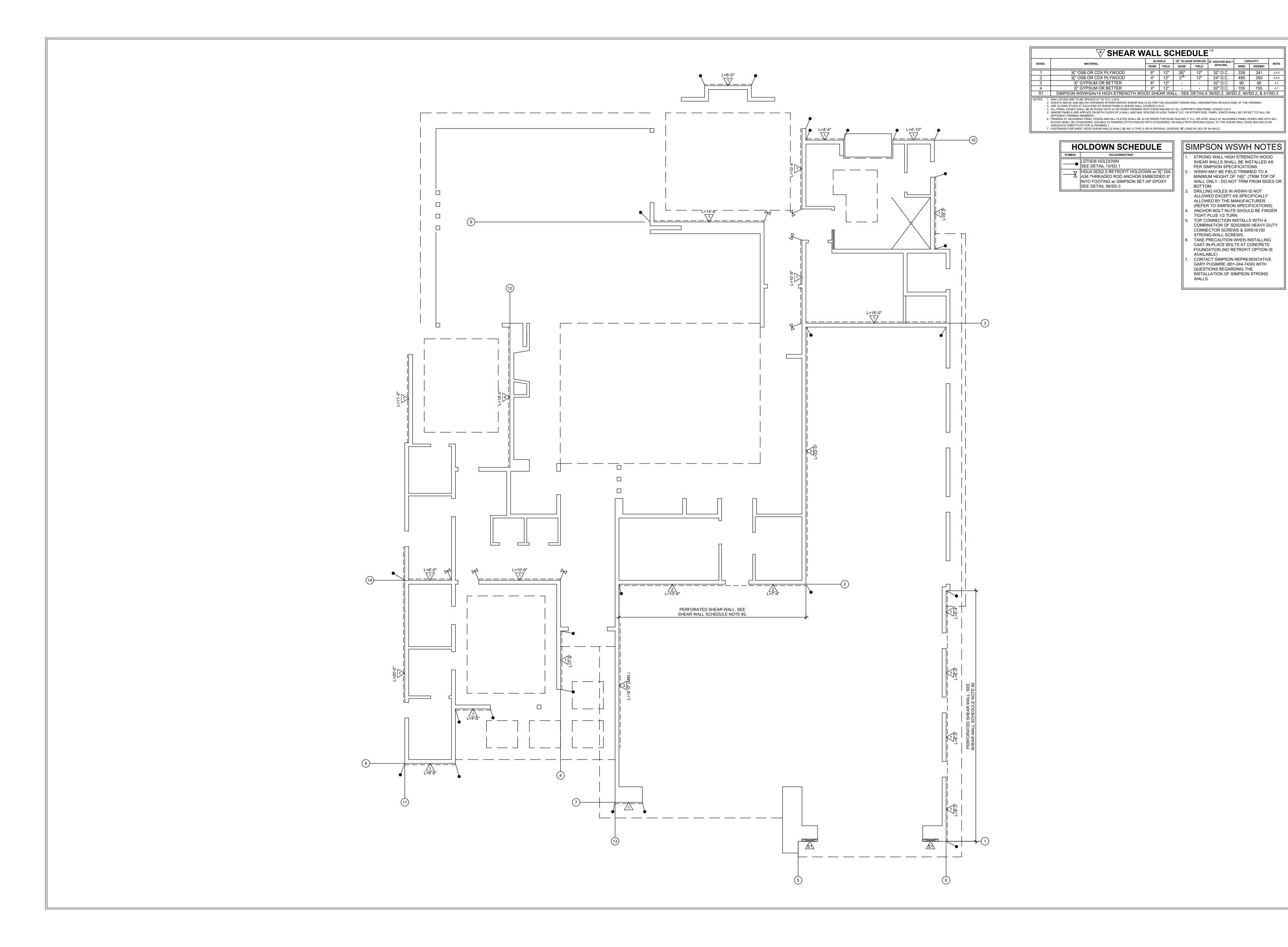
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LEI PROJECT #: 2022-2349 DRAWN BY:

CHECKED BY: **EBM** SCALE: 1/4"=1'-0"

> DATE: 8/30/2022





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ENGINEERS SURVEYORS

PLANNERS

3302 N. Main Street Spanish Fork, UT 84660 Phone: 801.798.0555 Fax: 801.798.9393 office@lei-eng.com www.lei-eng.com



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DIMENSIONS SHOWN ON THE
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CONVENIENCE ONLY. VERIFY ALL
DIMENSIONS WITH THE CURRENT
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2022-2349

DRAWN BY:

JMW

CHECKED BY:

EBM

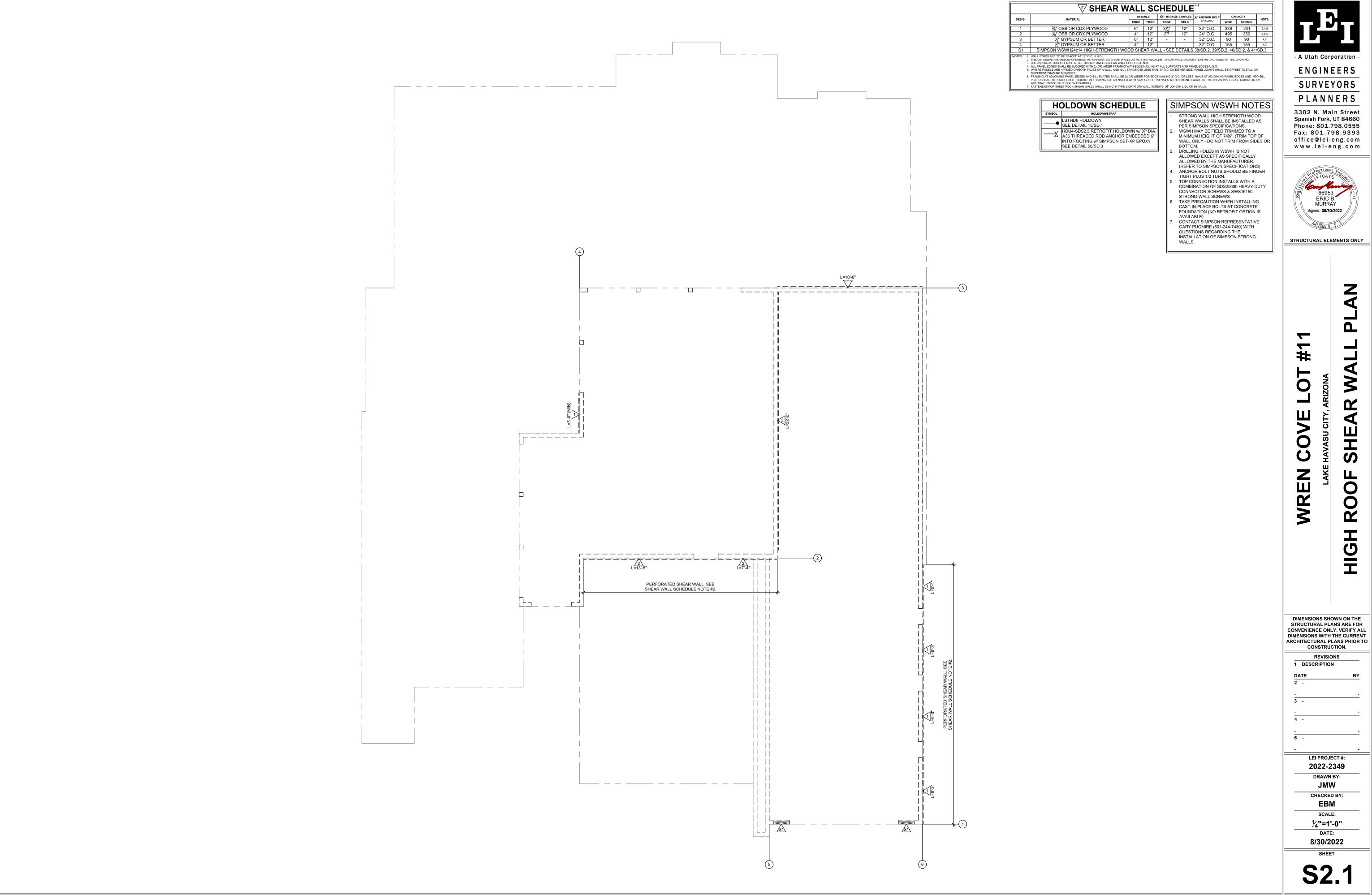
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8/30/2022

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	LEI PROJECT #:	
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FRAMING NOTES 1. PLANS ARE NOT COMPLETE WITHOUT THE STRUCTURAL CALCULATIONS. 2. REFER TO SHEET SD.0 FOR THE GENERAL STRUCTURAL NOTES. 3. ROOF SHEATHING SHALL BE APA RATED ⅓6" OSB OR CDX PLYWOOD WITH 8d NAILS AT 6" O.C. EDGE, 12" O.C. FIELD. 4. EXTERIOR STUD WALLS SHALL BE 2x6 @ 16" O.C. UP TO 10'-0" TALL U.N.O. 5. USE (11) 16d NAILS BETWEEN TOP PLATE SPLICE POINTS ON ALL EXTERIOR AND SHEAR WALLS. PROVIDE A 4'-0" MINIMUM LAP SPLICE. 6. INSTALL ALL SIMPSON HARDWARE PER MANUFACTURER'S SPECIFICATIONS. 7. HOLDOWNS SHALL BE INSTALLED ON (2) FULL HEIGHT KING STUDS (MINIMUM). 8. ROOF RAFTERS TO BE 11¾" BCI 6000-1.8 DF @ 24" O.C. U.N.O. 9. ALL DETAILS SHALL APPLY IN ALL SIMILAR SITUATIONS. 10. ALL LUMBER NOT PERMANENTLY PROTECTED FROM THE ELEMENTS SHALL BE PRESERVATIVE TREATED OR OF A DECAY RESISTANT SPECIES. CONTACT LEI

P#	POST SCHEDULE
DESIG.	POST SIZE
P1	(1) 2x
P2	(2) 2x
P3	(3) 2x
P4	(4) 2x
P5	(5) 2x
P6	4x4
P7	6x6
P8	5¼"x5¼" PARALLAM POST
P9	HSS3x3x1/4" A500 GR.B-46
P10	HSS6x6x¼" A500 GR.B-46
NOTES:	1. POSTS INDICATE NUMBER OF TRIMMER STUDS WHEN SPECIFIED AT HEADERS. ALL OTHER POST DESIGNATIONS REFER TO FULL HEIGHT KING STUDS U.N.O. 2. INSTALL (1) TRIMMER AND (1) KING STUD EACH SIDE OF EACH OPENING U.N.O. 3. INSTALL (2) TRIMMER STUDS AT EACH SIDE OF OPENINGS GREATER THAN 8:0" WIDE U.N.O. 4. INSTALL (2) KING STUDS EACH SIDE OF OPENINGS GREATER THAN 8:0" WIDE U.N.O. 5. 2X BUILT-UP POSTS SHALL BE THE SAME WIDTH OF THE WALL IN WHICH THEY ARE FRAMED U.N.O. 6. NAIL EACH PLY OF 2X BUILT-UP POSTS W/ 16d NAILS @ 6" O.C. STAGGERED U.N.O. 7. POSTS THAT ARE NOT FRAMED WITHIN A STUD WALL SHALL BE BRACED WITH BC OR AC POST CAP AND PB OR ABA POST BASE U.N.O.

ENGINEERS AND SURVEYORS, INC. IF A

DIFFERENT SPECIES IS TO BE USED.

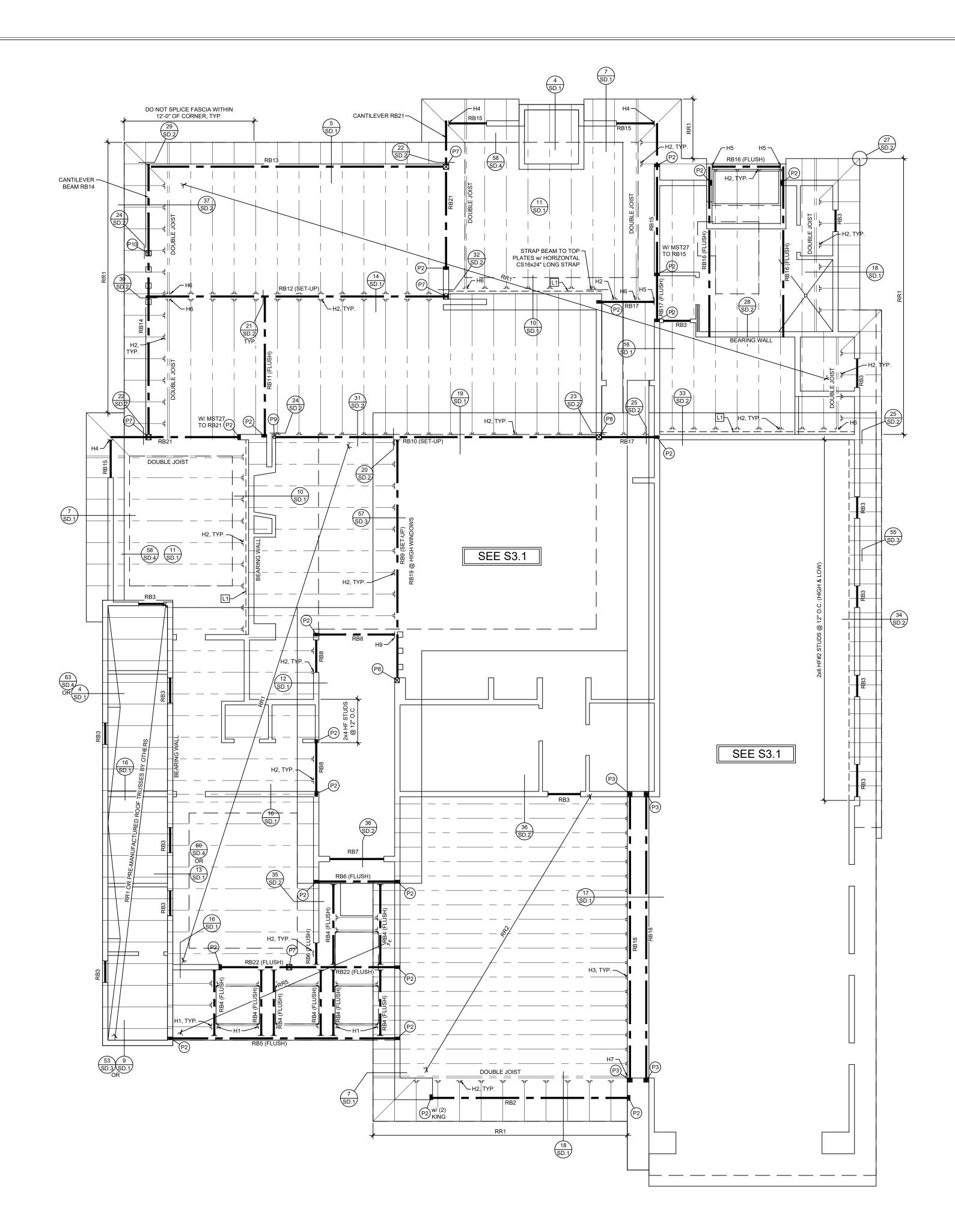
	HANGER SCHEDULE			
	DESIG.	HANGER		
	H1	LUS210, TYP.		
	H2	IUS2.37/11.88		
	H3	IUS2.56/11.88		
	H4	HUC410		
	H5	HUC412		
	H6	MIU4.75/11		
	H7	HUCQ5.25/11-SDS		
	H8	UPSIDE-DOWN HHUS410		
- 1	H9	U414		

RAFTER SCHEDULE			
RAFTER			
111/8" BCI 6000-1.8 DF @ 24" O.C.			
11%" BCI 6500-1.8 DF @ 16" O.C.			
117/8" BCI 6500-1.8 DF @ 12" O.C.			
2x10 DF-L#2 @ 12" O.C.			
2x12 DF-L#2 @ 24" O.C.			

LEDGER SCHEDULE DESIG. LEDGER L1 2x12 DF-L#2 LEDGER w/ (2) SDWS22500DB WOOD SCREWS @ 16" O.C. INTO STUDS

SIMPSON WSWH NOTES STRONG WALL HIGH STRENGTH WOOD SHEAR WALLS SHALL BE INSTALLED AS PER SIMPSON SPECIFICATIONS. WSWH MAY BE FIELD TRIMMED TO A MINIMUM HEIGHT OF 74½". (TRIM TOP OF WALL ONLY - DO NOT TRIM FROM SIDES OR BOTTOM. DRILLING HOLES IN WSWH IS NOT ALLOWED EXCEPT AS SPECIFICALLY ALLOWED BY THE MANUFACTURER. (REFER TO SIMPSON SPECIFICATIONS) ANCHOR BOLT NUTS SHOULD BE FINGER TIGHT PLUS 1/2 TURN. TOP CONNECTION INSTALLS WITH A COMBINATION OF SDS25600 HEAVY-DUTY CONNECTOR SCREWS & SWS16150 STRONG-WALL SCREWS. TAKE PRECAUTION WHEN INSTALLING CAST-IN-PLACE BOLTS AT CONCRETE FOUNDATION (NO RETROFIT OPTION IS CONTACT SIMPSON REPRESENTATIVE GARY PUGMIRE (801-244-7430) WITH QUESTIONS REGARDING THE INSTALLATION OF SIMPSON STRONG WALLS.

BEAM SCHEDULE					
DESIG.	QTY.	SIZE	TYPE		
RB1	2	1¾"x11½"	MICROLLAM		
RB2	1	6x12	DF-L#2		
RB3	1	4x6	DF-L#2		
RB4	1	2x12	DF-L#2		
RB5	3	1¾"x11%"	MICROLLAM		
RB6	2	2x12	DF-L#2		
RB7	1	6x6	DF-L#2		
RB8	2	1¾"x11½"	MICROLLAM		
RB9	1	5½"x21"	GLULAM		
RB10	1	W12x106	A992-50 STEEL		
RB11	2	1¾"x11%"	MICROLLAM		
RB12	1	W12x106	A992-50 STEEL		
RB13	1	W10x49	A992-50 STEEL		
RB14	1	W10x49	A992-50 STEEL		
RB15	1	4x10	DF-L#2		
RB16	1	1¾"x11%"	MICROLLAM		
RB17	2	1¾"x11%"	MICROLLAM		
RB18	1	51/8"x251/2"	GLULAM		
RB19	1	6x8	DF-L#2		
RB20	1	1¾"x11½"	MICROLLAM		
RB21	1	5½"x15"	GLULAM		
RB22	3	2x12	DF-L#2		







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WREN COVE LOT #

AMING

R00

DIMENSIONS SHOWN ON THE
STRUCTURAL PLANS ARE FOR
CONVENIENCE ONLY. VERIFY ALL
DIMENSIONS WITH THE CURRENT
ARCHITECTURAL PLANS PRIOR TO
CONSTRUCTION.

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	REVISIONS	
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	LEI PROJECT #:	

2022-2349

DRAWN BY:

JMW

CHECKED BY:

EBM

SCALE:

1/4"=1'-0"

DATE:

8/30/2022

S3.0

FRAMING NOTES PLANS ARE NOT COMPLETE WITHOUT THE STRUCTURAL CALCULATIONS.

STRUCTURAL CALCULATIONS.

2. REFER TO SHEET SD.0 FOR THE GENERAL STRUCTURAL NOTES.

3. ROOF SHEATHING SHALL BE APA RATED 1/6" OSB OR CDX PLYWOOD WITH 8d NAILS AT 6" O.C. EDGE, 12" O.C. FIELD.

O.C. EDGE, 12" O.C. FIELD.

4. EXTERIOR STUD WALLS SHALL BE 2x6 @ 16"
O.C U.N.O. GARAGE WALLS MAY BE 2x4 @ 16"
O.C. UP TO 10"-0" TALL U.N.O.

5. USE (11) 16d NAILS BETWEEN TOP PLATE
SPLICE POINTS ON ALL EXTERIOR AND SHEAF

WALLS. PROVIDE A 4'-0" MINIMUM LAP SPLICE.

6. INSTALL ALL SIMPSON HARDWARE PER
MANUFACTURER'S SPECIFICATIONS.

7. HOLDOWNS SHALL BE INSTALLED ON (2) FULL
HEIGHT KING STUDS (MINIMUM).

8. ROOF RAFTERS TO BE 11%" BCI 6000-1.8 DF @

24" O.C. U.N.O.

9. ALL DETAILS SHALL APPLY IN ALL SIMILAR SITUATIONS.

10. ALL LUMBER NOT PERMANENTLY PROTECTED FROM THE ELEMENTS SHALL BE PRESERVATIVE TREATED OR OF A DECAY RESISTANT SPECIES. CONTACT LEI ENGINEERS AND SURVEYORS, INC. IF A

| P# POST SCHEDULE | Post size | Post size

P6 4x4
P7 6x6
P8 5¼"x5½" PARALLAM POST
P9 HSS3x3x½" A500 GR.B-46
P10 HSS6x6x½" A500 GR.B-46

P10 HSS6x6x½" A500 GR.B-46

ITES: 1. POSTS INDICATE NUMBER OF TRIMMER STUDS WHEN SPECIFIED AT HEADERS. ALL OTHER POST DESIGNATIONS REFER TO FULL HEIGHT KING STUDS U.N.O.

2. INSTALL (1) TRIMMER AND (1) KING STUD EACH SIDE OF EACH OPENING U.N.O.

3. INSTALL (2) TRIMMER STUDS AT EACH SIDE OF OPENINGS GREATER THAN 8'-0" WIDE U.N.O.

4. INSTALL (2) KING STUDS EACH SIDE OF OPENINGS GREATER THAN 8'-0" WIDE U.N.O.

5. 2K BUILT-UP POSTS SHALL BE THE SAME WIDTH OF THE WALL IN WHICH THEY ARE FRAMED U.N.O.

6. NAIL EACH PLY OF 2X BUILT-UP POSTS W/ 16d NAILS @ 6" O.C. STAGGERED U.N.O.

7. POSTS THAT ARE NOT FRAMED WITHIN A STUD WALL SHALL BE BRACED WITH BC OR AC POST CAP AND PB OR ABA POST BASE U.N.O.

HANGER SCHEDULE

DESIG. HANGER

H1 LUS210, TYP.

H2 IUS2.37/11.88

H3 IUS2.56/11.88

H4 HUC410

H5 HUC412

H6 MIU4.75/11

H7 HUCQ5.25/11-SDS

H8 UPSIDE-DOWN HHUS410

H9 U414

RAFTER SCHEDULE

DESIG. RAFTER

RR1 117/8" BCI 6000-1.8 DF @ 24" O.C.

RR2 117/8" BCI 6500-1.8 DF @ 16" O.C.

RR3 117/8" BCI 6500-1.8 DF @ 12" O.C.

RR4 2x10 DF-L#2 @ 12" O.C.

RR5 2x12 DF-L#2 @ 24" O.C.

LEDGER SCHEDULE

DESIG. LEDGER

L1 2x12 DF-L#2 LEDGER w/ (2)
SDWS22500DB WOOD SCREWS @ 16"
O.C. INTO STUDS

SIMPSON WSWH NOTES

STRONG WALL HIGH STRENGTH WOOD SHEAR WALLS SHALL BE INSTALLED AS PER SIMPSON SPECIFICATIONS.

WSWH MAY BE FIELD TRIMMED TO A MINIMUM HEIGHT OF 74½". (TRIM TOP OF WALL ONLY - DO NOT TRIM FROM SIDES OR BOTTOM.

DRILLING HOLES IN WSWH IS NOT

ALLOWED EXCEPT AS SPECIFICALLY
ALLOWED BY THE MANUFACTURER.
(REFER TO SIMPSON SPECIFICATIONS)

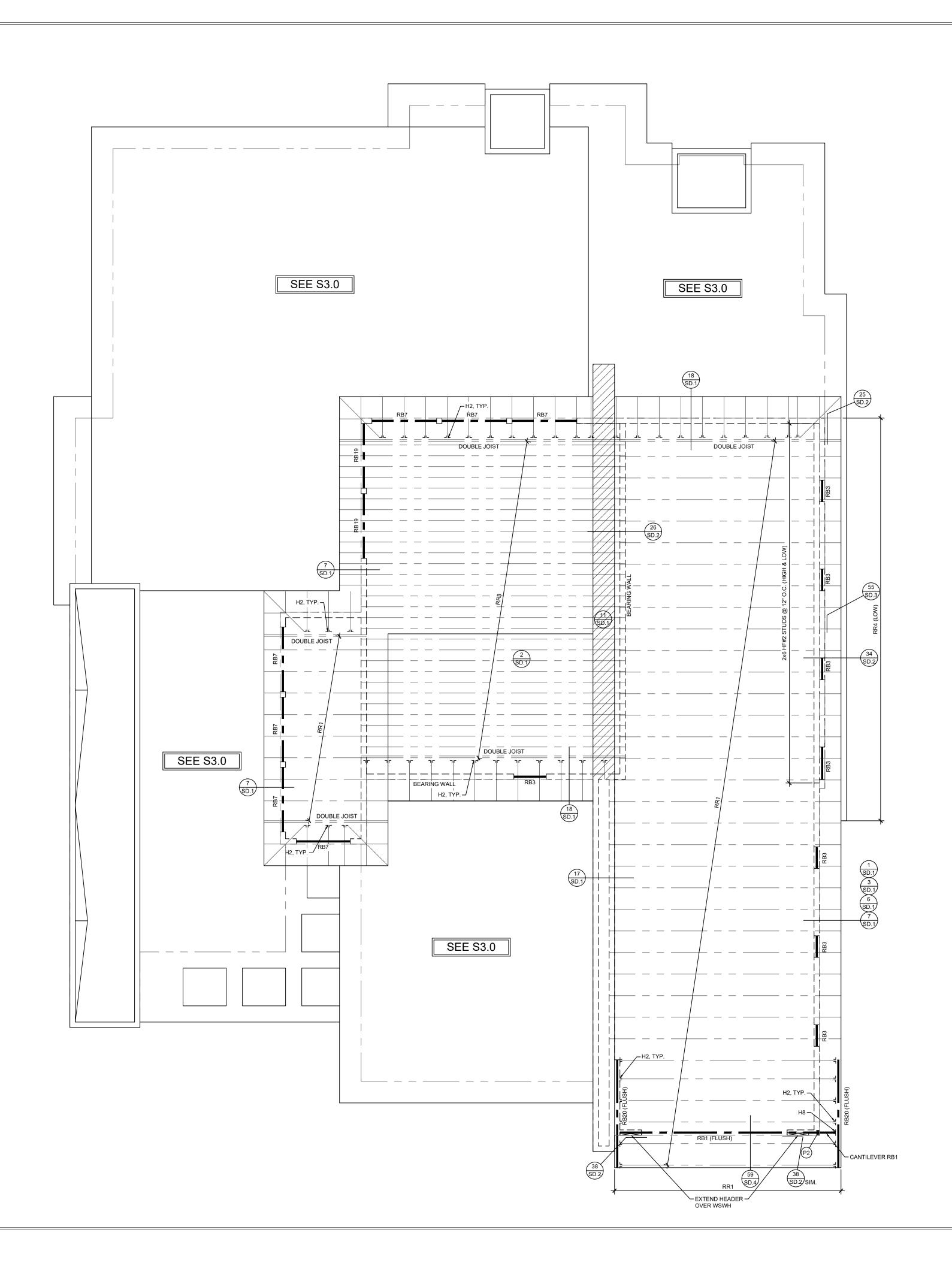
ANCHOR BOLT NUTS SHOULD BE FINGER
TIGHT PLUS 1/2 TURN.

TOP CONNECTION INSTALLS WITH A
COMBINATION OF SDS25600 HEAVY-DUTY
CONNECTOR SCREWS & SWS16150
STRONG-WALL SCREWS.

TAKE PRECAUTION WHEN INSTALLING
CAST-IN-PLACE BOLTS AT CONCRETE

FOUNDATION (NO RETROFIT OPTION IS AVAILABLE)
7. CONTACT SIMPSON REPRESENTATIVE GARY PUGMIRE (801-244-7430) WITH QUESTIONS REGARDING THE INSTALLATION OF SIMPSON STRONG

BEAM SCHEDULE					
DESIG.	QTY.	SIZE	TYPE		
RB1	2	1¾"x11%"	MICROLLAM		
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RB20	1	1¾"x11%"	MICROLLAM		
RB21	1	51/8"x15"	GLULAM		
RB22	3	2x12	DF-L#2		





ENGINEERS

SURVEYORS PLANNERS

3302 N. Main Street Spanish Fork, UT 84660 Phone: 801.798.0555 Fax: 801.798.9393 office@lei-eng.com www.lei-eng.com



STRUCTURAL ELEMENTS ONLY

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E LOT #11
TY, ARIZONA
AMING PLA

WREN COVE LOT

HG

DIMENSIONS SHOWN ON THE STRUCTURAL PLANS ARE FOR CONVENIENCE ONLY. VERIFY ALL DIMENSIONS WITH THE CURRENT ARCHITECTURAL PLANS PRIOR TO CONSTRUCTION.

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LEI PROJECT #:
2022-2349

DRAWN BY:
JMW

CHECKED BY:
EBM

SCALE:

1/4"=1'-0"
DATE:
8/30/2022

S3.²

BASIS OF DESIGN 1. GOVERNING BUILDING CODE 2. GRAVITY DESIGN: ROOF DEAD LOAD (TILE) ROOF DEAD LOAD (SHINGLES, METAL, MEMBRANE) FLOOR DEAD LOAD 15 PSF FLOOR LIVE LOAD . 40 PSF ROOF LIVE LOAD 20 PSF 3. SEISMIC DESIGN: LATERAL SYSTEM SHEAR WALL $S_i = 0.112$ $S_{DS} = 0.199$ $S_{Di} = 0.177$ S==0.187 SITE CLASS (ASSUMED) RISK CATEGORY 4. WIND DESIGN: BASIC WIND SPEED . EXPOSURE

GENERAL

1. THE GENERAL CONTRACTOR SHALL:

A. BECOME FAMILIAR WITH ALL PORTIONS OF THE CONTRACT
DOCUMENTS AND ENSURE THAT ALL SUBCONTRACTORS ARE FAMILIAR WITH
THOSE PORTIONS PERTAINING TO THEIR AREA OF WORK. NO DEVIATIONS WILL BE ALLOWED UNLESS AGREED UPON BY ALL PARTIES IN WRITING PRIOR TO CONSTRUCTION OR FABRICATION.

SOIL BEARING PRESSURE (ASSUMED PER 2018 IBC 1806.2) 1500 PSF

B. VERIFY ALL DIMENSIONS AND ELEVATIONS. COORDINATE ALL DOORS, WINDOWS, NON-BEARING INTERIOR AND EXTERIOR WALLS, ELEVATIONS, SLOPES, STAIRS, CURBS, DRAINS, RECESSES, DEPRESSIONS RAILINGS, WATERPROOFING, FINISHES, CHAMFERS, KERFS, ETC. C. FIELD VERIFY ALL SITE CONDITIONS AND IMMEDIATELY NOTIFY THE ARCHITECT AND STRUCTURAL ENGINEER REGARDING ACTUAL CONDITIONS AT THE SITE WHICH ARE NOT PER THE DRAWINGS.

D. COORDINATE ALL WORK BETWEEN THE VARIOUS TRADES AND SUBCONTRACTORS. REPORT ANY MODIFICATIONS TO THE STRUCTURAL PORTION OF THE BUILDING BY OTHER TRADES TO THE ARCHITECT AND

E. BE RESPONSIBLE FOR SAFETY AND PROTECTION IN AND AROUND THE JOB SITE AND/OR ADJACENT PROPERTIES.

2. CONTRACT DOCUMENTS: A. REFER TO THE SPECIFICATIONS FOR INFORMATION NOT COVERED BY THESE GENERAL NOTES OR THE DRAWINGS. B. DETAILS, SECTIONS AND NOTES SHOWN ON THE STRUCTURAL DRAWINGS ARE INTENDED TO BE TYPICAL AND SHALL APPLY TO ALL SIMILAR SITUATIONS ELSEWHERE, UNLESS NOTED OR SHOWN OTHERWISE.

C. THE CONTRACT DOCUMENTS SHALL TAKE PRECEDENCE OVER SHOP DRAWINGS UNLESS SPECIFICALLY NOTED OTHERWISE. D. INFORMATION ON DRAWINGS INDICATING EXISTING CONDITIONS IS BASED ON BEST PRESENT KNOWLEDGE, BUT MAY NOT BE ENTIRELY ACCURATE AND MUST BE FIELD VERIFIED.

3. BUILDING CODE COMPLIANCE:

A. INSPECTION, TESTING, CONSTRUCTION, WORKMANSHIP AND MATERIALS SHALL CONFORM TO THE REQUIREMENTS OF THE GOVERNING BUILDING CODE AND STANDARDS. ASTM AND IBC DESIGNATIONS SHALL BE AS AMENDED TO LATEST DATE UNLESS NOTED OTHERWISE.

A. COORDINATE AND VERIFY ROOF, FLOOR, AND WALL OPENINGS REQUIRED WITH ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND/OR OTHER DRAWINGS PRIOR TO CONSTRUCTION. REPORT OPENINGS REQUIRED WHICH ARE NOT SPECIFICALLY SHOWN ON THE STRUCTURAL DRAWINGS TO THE ARCHITECT AND STRUCTURAL ENGINEER FOR REVIEW.

B. COORDINATE ANY CONSTRUCTION SITUATION NOT COVERED BY THESE PLANS, GENERAL NOTES, OR SPECIFICATIONS WITH THE ARCHITECT AND STRUCTURAL ENGINEER.

5. CONSTRUCTION SEQUENCE, SHORING, AND BRACING REQUIREMENTS A. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR THE METHOD, MEANS, AND SEQUENCE OF ALL STRUCTURAL ERECTION EXCEPT WHEN

TO PROVIDE ADEQUATE VERTICAL AND LATERAL SUPPORT DURING ERECTION. THIS SHORING AND BRACING SHALL REMAIN IN PLACE UNTIL ALL ANENT MEMBERS ARE PLACED AND ALL FINAL CONNECTIONS ARE COMPLETED, INCLUDING ALL ROOF AND FLOOR ATTACHMENTS.

B. SHORING AND SUPPORTING FORM WORK FOR SUSPENDED CONCRETE O MASONRY MATERIAL SHALL REMAIN IN PLACE AND SHALL NOT BE REMOVED UNTIL THE STRUCTURAL MEMBERS HAVE ACQUIRED SUFFICIENT STRENGTH T SAFELY SUPPORT THEIR OWN WEIGHT AND ANY ADDITIONAL CONSTRUCTION, STORAGE, AND/OR OTHER LOADS TO WHICH THEY MAY BE SUBJECTED. I NO CASE SHALL THEY BE REMOVED PRIOR TO 7 DAYS RE-SHORING SHALL BE IMMEDIATELY INSTALLED UPON REMOVAL OF SUCH FORMS AND SHALL REMAIN IN PLACE UNTIL 28 DAYS AFTER PLACING OF MATERIAL OR UNTIL LONGER. DO NOT REMOVE LARGE AREAS OF SHORING BEFORE STARTING RE-

C. NON-BEARING INTERIOR WALLS SHALL BE ADEQUATELY BRACED TO THE STRUCTURE ABOVE WITH ALLOWANCE FOR DEFLECTION OF THE STRUCTURE ABOVE AND/OR BELOW.

D. BUILDING WALLS WHICH RETAIN EARTH MUST BE BRACED AT THE TOP. DO NOT BACKFILL UNLESS BRACING IS PROVIDED OR UNTIL THE COMPLETE FLOOR OR ROOF SYSTEM IS IN PLACE, TYPICAL, UNLESS NOTED

omissions and/or conflicts OMISSIONS IN AND/OR CONFLICTS BETWEEN THE VARIOUS ELEMEN

OF THE CONTRACT DOCUMENTS SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ARCHITECT AND STRUCTURAL ENGINEER AND SHALL BE

B. IN CASE OF CONFLICTS IN THE STRUCTURAL WORK, THE MOST STRINGENT REQUIREMENTS, AS DIRECTED BY THE ARCHITECT AND STRUCTURAL ENGINEER, SHALL BE IMPLEMENTED AT NO ADDITIONAL COST TO THE OWNER 7. MISCELLANEOUS

A. DURING AND AFTER CONSTRUCTION, THE CONTRACTOR AND/OR OWNE SHALL KEEP THE LOADS ON THE STRUCTURE WITHIN THE LIMITS OF THE

B. OBSERVATION VISITS TO THE SITE BY REPRESENTATIVES OF THE ARCHITECT AND/OR STRUCTURAL ENGINEER SHALL NOT BE CONSTRUED AS INSPECTION NOR APPROVAL OF CONSTRUCTION.

A. THE FOLLOWING ITEMS SHALL BE SUBMITTED TO THE ARCHITECT AND STRUCTURAL ENGINEER FOR REVIEW PRIOR TO FABRICATION, ERECTION, INSTALLATION, OR OTHERWISE BEING INCORPORATED INTO THE

STRUCTURAL STEEL SHOP DRAWINGS. ENGINEERED TRUSS DRAWINGS.

* THESE SUBMITTALS SHALL BE STAMPED BY A PROFESSIONAL ENGINEER CURRENTLY REGISTERED IN THE STATE OF LICENSURE OF THE ENGINEER

B. A MINIMUM OF TWO WEEKS SHALL BE ALLOWED FOR THE REVIEW OF ALL SUBMITTALS BY THE ARCHITECT AND STRUCTURAL ENGINEER. C. REQUESTS FOR SUBSTITUTIONS SHALL BE SUBMITTED TO THE ARCHITECT AND STRUCTURAL ENGINEER IN WRITING. REASON(S) FOR TH REQUEST AND COST DIFFERENTIALS SHALL BE INCLUDED IN THE REQUESTS. SUBSTITUTIONS ARE NOT ALLOWED UNLESS APPROVED IN WRITING BY THE

SITE PREPARATION

FOUNDATIONS, AND FLOOR SLABS.

ARCHITECT AND STRUCTURAL ENGINEER.

A. DO NOT PLACE FOOTINGS OR FOUNDATIONS ON DISTURBED SOILS

B. ALL UNSUITABLE SOILS AND VEGETATION, SUCH AS TOPSOIL, ORGANIC SOILS, UNDOCUMENTED FILL, DISTURBED NATIVE SOILS, AND OTHER DELETERIOUS MATERIALS, SHALL BE REMOVED FROM BELOW FOOTINGS,

CONCRETE

1. CODES AND STANDARDS:

A. CONCRETE WORK SHALL COMPLY WITH THE AMERICAN CONCRETE INSTITUTE (ACI) EDITIONS OF:

I. ACI 301, "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS". II. ACI 318, "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE". III. ACI 347, "RECOMMENDED PRACTICE FOR CONCRETE FORM WORK".

2. MATERIALS: A. CEMENT SHALL CONFORM TO ASTM C150, TYPE II, PORTLAND CEMENT. B. HARD ROCK AGGREGATES SHALL CONFORM TO ASTM C33. LIGHTWEIGHT AGGREGATES SHALL CONFORM TO ASTM C330.

D. AIR ENTERTAINMENT SHALL CONFORM TO ASTM C260.

E. FLY ASH SHALL CONFORM TO ASTM C618. F. CALCIUM CHLORIDE SHALL NOT BE USED.

A. ONLY ONE TYPE OF CONCRETE SHALL BE PLACED AT THE SITE AT ANY

B. A MIX DESIGN THAT PRODUCES THE LOWEST SLUMP COMPATIBLE WITH PROPER PLACEMENT SHALL BE USED, 4" MAXIMUM. C. CONCRETE MIXES SHALL CONFORM TO THE FOLLOWING:

C. CONORDIB MIRBO DIRAM CONFORM TO THE FOLLOWING.						
TYPE OF CONCRETE MEMBER	MINIMUM STRENGTH AT 28 DAYS (PSI)	MAX. W/C (RATIO)	DRY WEIGHT (PCF)	MAX AGGREGATE SIZE (INCHES)	AIR ENTRAIN- MENT (%)	MIN. CEMEN PER YARD (LBS)
FOOTINGS:	2500	0.50	145	0'-0 3/4"	3 ±−1	517
FOUNDATION WALLS:	2500	0.45	145	0'-0 3/4"	3 ±-1	564
SLAB ON GRADE:						
INTERIOR	2500	0.45	145	0'-0 3/4"	3 ±-1	564
EXTERIOR	2500	0.45	145	0'-0 3/4"	6 ±-1	564
SLABS ON DECK:						
LT. WT.*	2500	0.53	110	0'-0 3/4"	6 ±-1	564
COLUMNS:	2500	0.45	145	0'-0 3/4"	3 ±−1	564

2500 0.45 145 0'-0 3/4" 3 ±-1 564

* LT. WT. CONCRETE SHALL HAVE A MIN. SPLITTING TENSILE STRENGTH OF 450 PSI. D. LIMIT FLY ASH TO 15% OF THE TOTAL CEMENTITIOUS MATERIAL. E. PEA GRAVEL AGGREGATE AND/OR PLASTICIZER MAY BE USED IN CONGESTED AREAS WHEN REQUIRED TO PROPERLY FILL ALL VOIDS AND/OR FOR WORKABILITY. (CONTRACTOR'S OPTION).

4. CONSTRUCTION:

A. CONCRETE SHALL BE PROPERLY VIBRATED DURING PLACEMENT. B. PRIOR TO PLACING CONCRETE, CHECK WITH ALL TRADES TO ENSURE PROPER PLACEMENT OF OPENINGS, BLOCK OUTS, SLEEVES, CURBS CONDUITS, BOLTS, INSERTS, EMBEDS, DOWELS, ETC. ANCHOR BOLTS AND DOWELS SHALL BE PLACED PRIOR TO CASTING CONCRETE.

C. CONSTRUCTION JOINTS AND BULKHEADS SHALL BE FORMED WITH A KEY WAY. ALL CONTACT SURFACES, NEW OR EXISTING, AT CONSTRUCTION JOINTS SHALL BE INTENTIONALLY ROUGHENED PRIOR

D. OPENINGS IN FLOORS AND/OR WALLS SHALL HAVE ADDITIONAL REINFORCING AROUND ALL SIDES OF THE OPENING EQUIVALENT T THE BARS CUT BY THE OPENING WITH HALF ON EACH SIDE OF TH OPENING OR 2-#5 BARS, WHICHEVER IS GREATER, UNLESS NOTED OTHERWISE. BARS PARALLEL TO THE PRINCIPAL REINFORCING SHALL
RUN FULL LENGTH OF THE SPAN. BARS IN THE OTHER DIRECTION SHALL
RUN 24 INCHES BEYOND THE EDGE OF THE OPENING OR END WITH A
STANDARD HOOK. ALSO PROVIDE 2-#5 x 4'-0" DIAGONAL BARS AT EACH
CONNER OF FACU OPENING

E. NO PENETRATION SHALL BE ALLOWED THROUGH ANY CONCRETE BEAM, JOIST, COLUMN, PIER, OR JAMB WITHOUT THE ARCHITECT'S AND STRUCTURAL ENGINEER'S PRIOR WRITTEN APPROVAL. PENETRATIONS SHALL BE RE-ROUTED AS REQUIRED AT THESE LOCATIONS.

A. FOOTINGS SHALL BEAR ON PROPERLY PREPARED MATERIAL. SEE THE SITE PREPARATION NOTES.

ABOVE, TYPICAL UNLESS NOTED OTHERWISE.

C. EXTERIOR FOOTINGS SHALL BEAR BELOW THE EFFECTS OF FROST. D. PROVIDE 2x4 BEVELED KEY WAYS IN ALL CONTINUOUS WALL FOOTINGS. E. STAGGER FOOTING CONSTRUCTION JOINTS FROM WALL CONSTRUCTION JOINTS ABOVE BY AT LEAST 6 FEET.

F. REINFORCING IN CONTINUOUS FOOTINGS SHALL BE CONTINUOUS AT CORNERS AND/OR INTERSECTIONS BY PROVIDING PROPER LAP LENGTHS G. NO PENETRATIONS SHALL BE ALLOWED THROUGH ANY CONCRETE FOOTING. WHEN CONFLICTS ARISE BETWEEN UNDERGROUND PLUMBING, UTILITIES, ETC., THE FOOTING SHALL BE STEPPED DOWN BELOW THE CONFLICT AND A

CONCRETE WALL, PIER, COLUMN, ETC., SHALL BE EXTENDED TO THE FOOTING

H. BEARING SURFACES FOR FOOTINGS WHICH ARE, OR BECOME, UNDERMINED DURING CONSTRUCTION SHALL BE BACKFILLED WITH A LEAN-MIX CONCRETE (1000 PSI MIN.).

A. INTERIOR SLABS ON GRADE SHALL BE A MINIMUM OF 4 INCHES THICK, SHALL BEAR ON A 4 INCH MINIMUM LAYER OF FREE-DRAINING GRAVEL, AND SHALL BE REINFORCED WITH #4 BARS AT 24" O.C. BOTH WAYS, TYPICAL UNLESS NOTED OTHERWISE. PROVIDE CHAIRS WITH SAND DRAFFEE FOR DEDOED DIAGRAFIANT.

B. LARGE AREAS OF INTERIOR SLABS ON GRADE SHALL BE PLACED IN STRIPS NOT TO EXCEED 120 FEET IN LENGTH NOR 30 FEET IN WIDTH WHICH ARE SUBDIVIDED BY CONSTRUCTION AND/OR CONTRACTION (CONTROL) JOINTS INTO ROUGHLY SQUARES WHOSE SIDES SHALL NOT EXCEED 15 FEET IN EITHER DIRECTION.

C. SEE ARCHITECTURAL FOR EXTERIOR SLABS ON GRADE, TYPICAL, UNLESS NOTED OTHERWISE.

MASONRY VENEER ANCHOR TIES

 PRODUCTS: A. MASONRY VENEER ANCHOR TIES SHALL BE ONE OF THE FOLLOWING: I. DOVETAIL ANCHORS

II. DX-10 SEISMIC CLIP INTERLOCK SYSTEM BY HOHMANN & BARNARD. III. ARCHITECT AND STRUCTURAL ENGINEER APPROVED TWO PIECE ADJUSTABLE HOT-DIPPED GALVANIZED TIES.

B. PROVIDE CONTINUOUS HORIZONTAL GALVANIZED #9 WIRE IN CENTER THIRD OF MORTAR JOINTS AT 16" O.C. ENGAGE #9 WIRE

C. CONSTRUCTION JOINTS IN MASONRY VENEER WALLS SHALL BE PROVIDED AS PER THE ARCHITECTURAL DRAWINGS, AND SHALL BE SPACED AT A MAXIMUM OF 15'-0" O.C. FOR MASONRY BLOCK VENEER.

REINFORCING STEEL

1. CODES AND STANDARDS:

A. REINFORCING STEEL SHALL COMPLY WITH: AMERICAN CONCRETE INSTITUTE BUILDING CODE & COMMENTARY

AMERICAN CONCRETE INSTITUTE "DETAILING MANUAL", ACI 315 A. REINFORCING STEEL SHALL BE NEW STOCK DEFORMED BARS AND SHALL CONFORM TO ASTM A615, GRADE 60, WITH A DESIGN YIELD

STRENGTH OF 60,000 PSI, EXCEPT AS NOTED BELOW. I. DOWELS TO BE BENT IN THE FIELD DURING CONSTRUCTION SHALL BE ASTM A615, GRADE 40 OR ASTM A706, GRADE 60, "LOW ALLOY STEEL".

REINFORCING TO BE WELDED SHALL BE ASTM A706, GRADE 60, "LOW-ALLOY STEEL". MASONRY JOINT REINFORCING SHALL BE MANUFACTURED FROM wire which conforms to astm a82

3. CONSTRUCTION:

. REINFORCING SHALL BE DETAILED, BOLSTERED, AND SUPPORTED

B. REINFORCING STEEL SHALL BE FREE OF LOOSE, FLAKY RUST, SCALE, GREASE, OIL, DIRT, AND OTHER MATERIALS WHICH MIGHT AFFECT OR IMPAIR BOND.

C. REINFORCING SHALL BE CONTINUOUS IN WALLS, BEAMS, COLUMNS, SLABS, FOOTINGS, ETC. D. SPLICES IN CONTINUOUS REINFORCING SHALL BE MADE IN AREAS OF COMPRESSION AND/OR AT POINTS OF MINIMUM STRESS, TYPICAL UNLESS NOTED OTHERWISE. LAP SPLICES SHALL BE 40 BAR DIAMETERS LONG IN CONCRETE AND 48 BAR DIAMETERS LONG IN MASONRY. MINIMUM LAP SHALL BE 24 INCHES LONG. DOWELS SHALL HAVE A MINIMUM OF 30 BAR DIAMETERS EMBEDMENT. TENSION SPLICES SHALL BE USED IN CONCRETE WHEN SPECIFICALLY NOTED, USE A CLASS B SPLICE. SPLICES IN TOP BARS IN SUSPENDED SLABS AND BEAMS SHALL BE MADE AT MID SPAN. SPLICES IN BOTTOM BARS E. BENDS SHALL BE MADE COLD. DO NOT USE HEAT. BENDS SHALL BE DONE IN THE FABRICATOR'S SHOP UNLESS SPECIFICALLY NOTED FOR THE FIELD. DO NOT UN-BEND OR RE-BEND A PREVIOUSLY

F. REINFORCING STEEL IN CONCRETE SHALL BE SECURELY ANCHORED AND TIED IN PLACE PRIOR TO PLACING CONCRETE AND SHALL BE POSITIONED WITH THE FOLLOWING MINIMUM CONCRETE COVER:

CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH..... CONCRETE EXPOSED TO EARTH OR WEATHER: #6 AND LARGER.... #5 AND SMALLER..... CONCRETE NOT EXPOSED TO EARTH OR WEATHER: BEAMS AND COLUMNS, MAIN REINFORCING OR TIES...... 1 1/2" SLABS ON GRADE...... CENTER OF SLAB G. REINFORCING STEEL IN MASONRY SHALL BE PLACED PRIOR TO GROUTING AND SHALL BE PLACED, POSITIONED, AND LOCATED ACCORDING TO THE STRUCTURAL DRAWINGS. IT SHALL BE SECURED

NO REINFORCING STEEL SHALL BE WELDED UNLESS SPECIFICALLY NOTED AS SUCH. USE E90XX ELECTRODES AND ASTM A706 REINFORCING. COMPLY WITH AWS REQUIREMENTS. I. EPOXY COATED REINFORCING BARS SHALL BE USED WHEN SPECIFICALLY NOTED. INCREASE LAP SPLICE LENGTHS AS REQUIRED BY THE IBC.

AGAINST DISPLACEMENT AT INTERVALS NOT TO EXCEED 200 BAR

STRUCTURAL STEEL

1. CODES AND STANDARDS: A. STRUCTURAL STEEL WORK SHALL COMPLY WITH: I. THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS", WITH

II. AISC "CODE OF STANDARD PRACTICE" EXCLUDING SECTIONS 1.51, 3.3 (1ST SENTENCE), 4.2, 7.5.4, AND 7.11.5. III. AMERICAN WELDING SOCIETY (AWS) "STRUCTURAL WELDING CODE", EXCLUDING ITEMS CONFLICTING WITH AISC REQUIREMENTS

2. MATERIALS: A. STRUCTURAL STEEL SHAPES SHALL CONFORM TO ASTM A572
GRADE 50 ENHANCED STEEL. STRUCTURAL STEEL PLATES SHALL CONFORM TO ASTM A36. B. STRUCTURAL TUBE STEEL SHALL CONFORM TO ASTM A500,

C. STRUCTURAL PIPE SHALL CONFORM TO ASTM A53, WITH A MINIMUM YIELD STRENGTH Fy=36 KSI. D. HIGH STRENGTH BOLTS SHALL CONFORM TO ASTM A325. ALL OTHER BOLTS SHALL CONFORM TO ASTM A307 OR BETTER.

GRADE B, WITH A MINIMUM YIELD STRENGTH Fy=46 KSI.

E. WELDED ANCHOR STUDS AND DEFORMED BAR ANCHORS SHALL CONFORM TO THE MANUFACTURER'S SPECIFICATIONS A. FABRICATION SHALL BE DONE IN AN APPROVED FABRICATOR'S

B. CAMBER IN BEAMS SHALL BE AS INDICATED ON PLANS. C. PROVIDE A SHOP COAT OF PAINT ON ALL STEEL ITEMS, EXCEPT AT AREAS OF WELDING AND/OR BOLTING.

D. USE HIGH STRENGTH (8000 PSI MINIMUM AT 28 DAYS), NON-SHRINK, LIQUID EPOXY GROUT BENEATH ALL STEEL BASE PLATES AND BEARING PLATES. MIX GROUT WITH SAND OR PEAGRAVEL AS RECOMMENDED BY THE MANUFACTURER. PLACE GROUT AS SOON AS STEEL MEMBER HAS BEEN PROPERLY

E. WHERE STRUCTURAL STEEL WIDE FLANGE, PIPE, OR TUBE SECTIONS ARE EMBEDDED IN CONCRETE OR MASONRY AND REINFORCING BARS BUTT TO IT, DEFORMED BAR ANCHORS OR REINFORCING BARS WITH THE SAME SIZE AND SPACING AS HE ADJACENT REINFORCING BARS, 48 BAR DIAMETERS LONG, SHALL BE WELDED TO THE STRUCTURAL STEEL. THE MANUFACTURER'S WELDING PROCEDURES SHALL BE ADHERED TO.

4. BOLTED CONNECTIONS: A. BOLTS SHALL BE 3/4" DIAMETER, UNLESS NOTED OTHERWISE B. BOLT SHALL BE BEARING TYPE CONNECTIONS UNLESS NOTED

C. STEEL TO STEEL BOLTED CONNECTIONS SHALL BE MADE WITH ASTM A325 HIGH STRENGTH BOLTS AND NUTS, UNLESS NOTED OTHERWISE. BOLTS SHALL CARRY THE IDENTIFYING MARK OF D. ALL OTHER BOLTED CONNECTIONS SHALL BE MADE WITH BOLTS AND NUTS CONFORMING TO ASTM A307 UNLESS NOTED OTHERWISE, INCLUDING ANCHOR BOLTS.

BOLTED CONNECTIONS SHALL BE TIGHTENED AND SHALL HAVE WASHERS AS REQUIRED BY AISC UNLESS NOTED OTHERWISE.

F. ENLARGING OF HOLES SHALL BE ACCOMPLISHED BY MEANS OF REAMING. DO NOT USE A TORCH ON ANY BOLT HOLES.

A. WELDED CONNECTIONS SHALL BE MADE USING LOW HYDROGEN MATCHING FILLER MATERIAL ELECTRODES, UNLESS NOTED OTHERWISE B. WELDERS SHALL BE CURRENTLY CERTIFIED ACCORDING TO AWS WITHIN THE LAST 12 MONTHS. ALL WELDING PROCEDURES SHALL BE PRE-QUALIFIED. WELDERS SHALL FOLLOW WELDING

C. WELDING AND GAS CUTTING SHALL BE DONE PER AWS. D. WELDS SHALL HAVE THE SLAG REMOVED.

GENERAL FRAMING NOTES 1. ALL JOISTS, RAFTERS, POSTS AND HEADERS SHALL BE DOUGLAS FIR LARCH NO.2 OR EQUAL U.N.O. IF TIT'S OR EQUAL ARE USED, THEY MUST BE INSTALLED PER MANUFACTURERS RECOMMENDATIONS ND SPECIFICATIONS. ALSO PROVIDE BRIDGING • 8' O.C. FOR

2. ALL JOISTS AND RAFTERS SHALL HAVE SOLID BLOCKING AT THEIR BEARING POINTS. ROOF JOISTS TO HAVE HURRICANE CLIPS AT 24"

3. ALL WOOD/LUMBER PLACED ONTO CONCRETE SHALL BE PRESSURE TREATED OR REDWOOD. 4. ALL WOOD CONNECTIONS MUST CARRY THE CAPACITY OF THE MEMBER, CONTRACTOR IS RESPONSIBLE FOR CONNECTIONS. IF OTHER THAN STANDARD CONNECTIONS ARE REQUIRED, SEE PROJECT ENGINEER FOR ADDITIONAL ASSISTANCE. USE SIMPSON

5. ALL COLUMNS SHALL EXTEND DOWN THROUGH THE STRUCTURE TO THE FOUNDATION. ALL COLUMNS SHALL BE BRACED AT ALL FLOOR LEVELS. COLUMNS SHALL BE AS WIDE AS THE MEMBER THEY SUPPORT. 6. ALL EXTERIOR WALLS SHALL BE SHEATHED WITH 3/8" THICK EXP 1 SHEATHING OR EQUAL WITH 8d NAILS ● 6" O.C. EDGÉS AND ● 12" 7. ALL FLOOR SHEATHING TO BE 3/4" THICK T&G SHEATHING GLUED AND NAILED WITH 10d COMMON NAILS OR EQUAL ● 6" O.C. EDGES AND ● 10"

8. VERIFY ALL BEAM SIZES WITH ENGINEERING SPECIFICATIONS. 9. ALL BEAMS AND HEADERS OVER 48" SHALL BE SUPPORTED BY DOUBLE TRIMMERS UNLESS NOTED OTHERWISE. 10. TRUSS MANUFACTURER SHALL PROVIDE ENGINEERING SPECS. FOR

ALL TRUSSES. 11. USE 7/16" O.S.B. OR CDX PLYWOOD SHEATHING WITH 8d NAILS @ 6" O.C. AT EDGES OF ROOF 10d NAILS • 4" O.C. AT GABLE ENDS SPACE NAILS 12" O.C. ON INTERMEDIATE MEMBERS STAGGER SHEATHING JOINTS
PLYWOOD PERP. TO RAFTERS AND TRUSSES

12. SOLID BLOCK BETWEEN TRUSSES. HOLD DOWN EVERY 3RD BLOCK FOR ATTIC VENTILATION.

13. ALL OVER FRAME AREAS TO HAVE FULL ROOF SHEATHING BELOW. 14. PROVIDE SQUASH BLOCKING AT RIM JOIST BELOW ALL POSTS FROM ROOF, HEADER OR BEAM POINT LOADS. 15. PROVIDE DOUBLE FLOOR JOISTS BELOW ALL PARALLEL BEARING WALLS

16. ALL FRAMING LUMBER SHALL BE HEM FIR OR BETTER UNLESS A HIGHER GRADE IS NOTED OTHERWISE.

17. GLULAM BEAMS SHALL BE 24F-V4 DF/DF FOR SINGLE SPANS AND 24F-V8 DF/DF FOR MULTIPLE SPANS, AND CANTILEVERED SPANS. 18. ALL RAFTERS AND JOISTS OVER THREE FEET LONG SHALL BE HANGERED IF NOT SUPPORTED BY BOTTOM BEARING. ALL HANGERS AND OTHER WOOD CONNECTIONS MUST BE DESIGNED TO CARRY THE CAPACITY OF THE

19. FRAMING CONNECTIONS NOTED ON THE DRAWINGS ARE SIMPSON STRONGTIE OR EQUAL. INSTALL WITH THE CATALOG DESIGNATED CONNECTOR

20. NO STRUCTURAL MEMBER SHALL BE CUT OR NOTCHED UNLESS SPECIFICALLY SHOWN, NOTED OR APPROVED BY ENGINEER. 21. LAG SCREWS SHALL BE INSERTED IN A DRILLED PILOT HOLE 60%-75% OF THE SHANK DIAMETER BY TURNING WITH A WRENCH, NOT BY DRIVING WITH A HAMMER. ALL NUTS, BOLTS AND LAG SCREWS SHALL BE PROVIDED WITH AN OVERSIZED WASHER.

22. NAILS TO BE COMMON WIRE UNLESS OTHERWISE NOTED

23. ALL BOLT HOLES SHALL BE DRILLED WITH A BIT 1/32" TO 1/16" LARGER THAN THE NOMINAL BOLT DIAMETER. 24. ALL JOINTS IN WALL SHEATHING SHALL OCCUR IN THE MIDDLE OF A PLATE OR BLOCK AND NAILED ON EACH SIDE OF THE JOINT WITH EDGE NAILING PER SHEARWALL SCHEDULE.

TRUSSES BELOW AT 6'-0" O.C. MAXIMUM IN ORDER TO SPREAD THE LOAD EVENLY OVER THE TRUSSES. 26. PROVIDE 1/2" MINIMUM CLEARANCE BETWEEN TOP PLATE OF INTERIOR PARTITIONS AND BOTTOM CHORD OF TRUSSES (TO ENSURE THAT LOADING WILL BE AS DESIGNED).

25. ALL OVER BUILT ROOF RAFTERS SHALL BE BRACED VERTICALLY TO THE

27. DOUBLE TOP PLATE WITH MINIMUM 48" LAP SPLICE. 28. COLUMNS AND POSTS LOCATED ON CONCRETE OR MASONRY FLOORS OR DECKS EXPOSED TO THE WEATHER OR TO WATER SPLASH OR IN BASEMENTS, AND WHICH SUPPORT PERMANENT STRUCTURES, SHALL BE SUPPORTED BY CONCRETE PIERS OR METAL PEDESTALS PROJECTING ABOVE FLOORS UNLESS APPROVED WOOD OF NATURAL RESISTANCE BO DECAY OR TREATED WOOD IS USED. THE PEDESTALS SHALL PROJECT AT LEAST 6" ABOVE EXPOSED EARTH

29. ALL WORK SHALL BE IN STRICT ACCORDANCE WITH THE LATEST EDITION OF THE IBC, AND LOCAL ORDINANCES. 30. CONTRACTOR SHALL VERIFY ALL CONDITIONS AND DIMENSIONS PRIOR TO STARTING CONSTRUCTION.

WOOD TRUSS NOTES

AND AT LEAST 1" ABOVE SUCH FLOORS.

BOTTOM CHORDS OF TRUSSES, ACTING AS CEILING MEMBERS MUST BE ABLE TO SUPPORT A 10 PSF LIVE LOAD PER IBC REQUIREMENTS. 2. THE TRUSS MANUFACTURER SHALL BE RESPONSIBLE FOR THE DESIGN AND FABRICATION OF THE PRE-ENGINEERED TRUSSES, AND SHALL DESIGN THE TRUSSES PER ATTACHED ENGINEERING SPECS.

3. THE TRUSSES SHALL BE DESIGNED TO CARRY ANY ADDITIONAL LOADS DU TO MECHANICAL UNITS, OVERHEAD DOORS, ROOF OVERBUILDS, ETC.

4. THE TRUSSES SHALL ALSO BE DESIGNED PER THE IBC, AND LOCAL ORDINANCES.

5. ALL MEMBERS SHALL BE DESIGNED FOR COMBINED STRESSES, BASED ON THE WORST LOADING CONDITION. 6. THE TRUSS MANUFACTURER SHALL INDICATE PROPER BRACING OF COMPRESSION CHORD MEMBERS \odot 6'-0" LONG (OR LONGER), AS WELL AS BRACING FOR TRUSS ERECTION.

8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION OF THE TRUSSES PER THE TRUSS MANUFACTURERS RECOMMENDATIONS AND SPECIFICATIONS. NO WEB OR CHORD MEMBERS SHALL BE MODIFIED IN THE FIELD. 9. THE PROJECT ENGINEER, OR ENGINEER OF RECORD, IS NOT RESPONSIBLE FOR THE PRE-ENGINEERED TRUSSES, NOR FOR THE INSTALLATION ETC. OF THE TRUSSES. TRUSS PLANT SHALL PROVIDE LICENSED ENGINEERED PLAN. (CONTRACTOR TO VERIFY TRUSS LAYOUT IS CONSISTENT WITH THESE PLANS.

7. ALL DIMENSIONS SHALL BE FIELD VERIFIED PRIOR TO FABRICATION.

ENGINEER SHOULD BE NOTIFIED OF ANY DEVIATION).

10. FABRICATION OF TRUSSES SHALL BE AS APPROVED BY TPI EXCEPT THAT THIS SPECIFICATION SHALL GOVERN WHEN IT EXCEEDS TPI REQUIREMENTS. 11. FABRICATE TRUSSES FROM APPROVED SHOP DRAWINGS. 12. FABRICATE TRUSSES IN JIGS WITH MEMBERS ACCURATELY CUT TO PROVIDE

GOOD BEARING AT JOINTS. JOINTS SHALL BE ACCEPTABLE IF THE AVERAGE OPENING BETWEEN ENDS OF MEMBERS IMMEDIATELY AFTER FABRICATION IS LESS THAN 1/16", EXCEPT THAT TRUSS COMPRESSION CHORD JOINTS AT SPLICES AND RIDGES SHALL HAVE FULL CONTACT BETWEEN MEMBERS. 13. EACH CHORD SECTION SHALL BE INVOLVED IN TWO PANEL POINTS BEFORE

 PROVIDE 1/8" CAMBER FOR EACH 6 FEET OF TRUSS UNLESS OTHERWISE 15. TRUSS FABRICATORS USING METAL PLATES SHALL HAVE PLANT INSPECTED FOUR TIMES PER YEAR BY AN INDEPENDENT TESTING LABORATORY IN ACCORDANCE WITH TPI REGULATIONS AND COPIES OF INSPECTIONS MADE

MASONRY

1. CODES AND STANDARDS A. MASONRY WORK SHALL COMPLY WITH THE AMERICAN CONCRETE INSTITUTE (ACI) 530, "BUILDING CODE REQUIREMENTS FOR MASONRY

A. MASONRY WALL CONSTRUCTION SHALL CONSIST OF OF GRADE N, TYPE II, MEDIUM WEIGHT OR NORMAL-WEIGHT, CLOSED END, CONCRETE MASONRY UNITS (CMU's)

B. MORTAR SHALL BE TYPE "S" AS DEFINED BY THE ACI AND SHALL CONFORM TO ASTM C270, WITH A MINIMUM COMPRESSIVE STRENGTH OF 1800 PSI AT 28 DAYS. IT SHALL CONSIST OF 1.0 PART PORTLAND CEMENT, 0.25 TO 0.5 PARTS HYDRATED LIME OR PUTTY LIME, AND 3.5 TO 4.5 PARTS SAND. ALL MEASUREMENTS ARE PARTS BY VOLUME. NO ADDITIVES ARE ALLOWED.

C. GROUT SHALL CONFORM TO ASTM C476 WITH A MINIMUM COMPRESSIVE STRENGTH OF 2500 PSI AT 28 DAYS. IT SHALL BE OF A FLUID CONSISTENCY AND SHALL CONSIST OF A MINIMUM OF 1.0 PART PORTLAND CEMENT, 2.25 TO 3.0 PARTS SAND, AND MAY CONTAIN AN ADDITIONAL 1 TO 2 PARTS PEA GRAVEL IF GROUT SPACES ARE 4" OR MORE IN EVERY DIRECTION. ALL MEASUREMENTS ARE PARTS BY VOLUME. DO NOT

PRISM TESTS SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF F'M=1,500 PSI AT 28 DAYS.

A. ALL MASONRY BLOCK SHALL BE STORED UNDER COVER AT THE JOB SITE. B. FACE SHELLS SHALL BE FULLY BEDDED.

D. DO NOT USE MORTAR FOR GROUT. E. DO NOT USE ANY FROZEN MATERIAL.

MORTAR JOINTS SHALL BE TOOLED CONCAVE.

F. GROUT SHALL BE POURED IN ACCORDANCE WITH LOW LIFT PROCEDURES PER THE IBC, TYPICAL, UNLESS NOTED OTHERWISE G. GROUT SHALL BE CONSOLIDATED BY MECHANICAL VIBRATION DURING PLACING AND RECONSOLIDATED AFTER EXCESS MOISTURE ALL CELLS WHICH CONTAIN REINFORCING, BOLTS, ANCHORS, ETC. AND AS OTHERWISE SPECIFIED SHALL BE GROUTED SOLID. ALL CELLS WHICH ARE TO BE GROUTED SHALL BE CLEAN

AND FREE FROM DELETERIOUS MATERIALS. I. GROUT SOLID AROUND ALL JOIST AND BEAM ENDS, TYPICAL UNLESS NOTED OTHERWISE.

J. HOLES FOR BOLTS IN MASONRY FACE OR END SHELLS SHALL HAVE A DIAMETER TWO INCHES LARGER THAN THE BOLT DIAMETER AND THE HOLE SHALL BE FILLED WITH GROUT. K. NO PENETRATION SHALL BE ALLOWED THROUGH ANY MASONRY BEAM, COLUMN, PIER, OR JAMB WITHOUT THE ARCHITECT'S AND STRUCTURAL ENGINEER'S PRIOR WRITTEN APPROVAL. PENETRATIONS SHALL BE REROUTED AS REQUIRED AT THESE LOCATIONS.

L. PRIOR TO PLACING MASONRY, CHECK WITH ALL TRADES TO INSURE PROPER PLACEMENT OF OPENINGS, BLOCK OUTS, SLEEVES, CURBS, CONDUITS, BOLTS, INSERTS, EMBEDS, DOWELS, ETC.

A. MASONRY WALLS SHALL BE CONSTRUCTED UTILIZING COMMON RUNNING BOND, TYPICAL, UNLESS NOTED OTHERWISE. B. MASONRY WALLS SHALL BE BUILT AS AN INTEGRAL UNIT AT CORNERS AND INTERSECTIONS. REINFORCING SHALL BE CONTINUOUS AND BACK TO BACK END SHELLS SHALL BE REMOVED. C. MASONRY WALLS SHALL BE REINFORCED AS FOLLOWS, UNLESS

NOTED OTHERWISE. THICKNESS REINFORCING REINFORCING 1-#4 **9** 32" 0.C. 1-#4 **9** 48" 0.C. 1-#5 **9** 32" 0.C. 2-#3 **●** 48" 0.C. 1-#5 **②** 32" 0.C. 2-#4 **@** 48" 0.C. 1-#6 **●** 32" 0.C. 2-#4 **@** 48" 0.C. PROVIDE LADDER-TYPE JOINT REINFORCING CONSISTING OF 2-#9 WIRES (3-#9 WIRES AT VENEER) AT 16" O.C. HORIZONTALLY IN ALL

MASONRY WALLS. SEE PLANS, SCHEDULES, AND DETAILS FOR OTHER REINFORCING REQUIREMENTS. D. PLACE VERTICAL REINFORCING IN THE CENTER OF THE WALL UNLESS EACH FACE IS SPECIFIED OR UNLESS NOTED OTHERWISE. E. VERTICAL REINFORCING SHALL BE DOWELED TO CONCRETE FOOTING OR FOUNDATION WALL BELOW AND TO STRUCTURE ABOVE WITH THE SAME SIZE BAR AND SPACING, TYPICAL, UNLESS NOTED

F. PROVIDE VERTICAL REINFORCING IN GROUTED CELL AT ALL G. PROVIDE CORNER BARS AT ALL INTERSECTIONS AND CORNERS. USE SAME SIZE BAR AND SPACING AS THE HORIZONTAL REINFORCING. I. HORIZONTAL REINFORCING SHALL TERMINATE AT THE ENDS OF WALLS AND AT OPENINGS WITH A STANDARD HOOK. I. HORIZONTAL REINFORCING SHALL OCCUR AT THE TOP AND BOTTOM COURSE OF ALL MASONRY WALLS EXCEPT THE BOTTOM COURSE

6. CORROSION-RESISTANT SIDING OR CASING NAILS

FOR 25/32 INCH (20mm) SHEATHING.

5. DEFORMED SHANK.

HORIZONTAL REINFORCING MAY BE OMITTED WHEN THE WALL IS DOWELED TO A CONCRETE FOUNDATION WALL BELOW. J. OPENINGS IN WALLS WHICH EXCEED 24 INCHES IN EITHER DIRECTION SHALL BE REINFORCED WITH A MINIMUM OF 2-#5 BARS IN GROUTED SPACE ON ALL SIDES OF THE OPENING, TYPICAL, UNLESS NOTED OTHERWISE. VERTICAL BARS SHALL EXTEND THE FULL EXTEND A MINIMUM OF 24 INCHES BEYOND THE EDGES OF THE OPENING

INTO THE WALL AS THE WALL IS BEING CONSTRUCTED AND SHALL BE REVIEWED BY THE ARCHITECT AND STRUCTURAL ENGINEER PRIOR TO INSTALLATION.

L. CONSTRUCTION JOINTS IN REINFORCED MASONRY WALLS SHALL NOT OCCUR AT THE EDGE OF BEAM SUPPORTS AND SHALL BE M. WHERE HORIZONTAL REINFORCING BARS JOINT CONCRETE WALLS, COLUMNS, OR PILASTERS, REINFORCING SHALL BE CONTINUOUS.
ALSO, A KEY SHALL BE PROVIDED BETWEEN THE MASONRY AND THE CONCRETE. FILL KEY WITH GROUT.

A. BEAMS SHALL BE BUILT AS AN INTEGRAL PART WITH THE SUPPORT. NO TOOTHING OR DOWELING ONLY WILL BE PERMITTED.

MASONRY UNITS WITH ONE END OPEN-ENDED SHALL BE USED IN ALL MASONRY BEAMS. BACK-TO-BACK END SHELLS ARE NOT ALLOWED. GROUT ALL MASONRY BEAMS SOLID FOR FULL DEPTH AND WIDTH SHOWN IN MASONRY BEAMS SOLID FOR FULL DEPTH AND WIDTH

B. REINFORCING IN THE MASONRY BEAM SCHEDULE IS AN ADDITION TO STANDARD WALL REINFORCING. C. HORIZONTAL REINFORCING BARS IN THE TOP OF THE MASONRY BEAM SHALL BE PLACED IN THE TOP 4 INCHES OF THE BEAM AND SHALL EXTEND A MINIMUM OF 72 BAR DIAMETERS BEYOND THE EDGE OF THE OPENING OR SHALL BE HOOKED IF REQUIRED.

D. HORIZONTAL REINFORCING BARS IN THE BOTTOM OF THE MASONRY BEAM SHALL BE PLACED IN THE BOTTOM 4 INCHES OF THE BEAM AND SHALL EXTEND A MINIMUM OF 24 INCHES BEYOND THE EDGE OF THE OPENING OR SHALL BE HOOKED IF REQUIRED E. VERTICAL REINFORCING BARS SHALL HOOK AROUND THE BOTTOM EINFORCING BARS. THEY SHALL ALSO HOOK AROUND THE TOP HORIZONTAL REINFORCING BARS OR EXTEND INTO THE WALL ABOVE

THE MASONRY BEAM A MINIMUM OF 48 BAR DIAMETERS. F. DO NOT SPLICE HORIZONTAL TOP OR BOTTOM BARS, TYPICAL, UNLESS NOTED OTHERWISE. FOR OPENINGS NOT SHOWN, USE SIMILAR BEAM AS SHOWN IN HAT WALL OR TYPE OF WALL FOR SIMILAR OPENINGS. VERIFY

H. USE THE FOLLOWING MASONRY BEAM SIZES FOR OPENINGS IN

NON-BEARING MASONRY WALLS: (INCHES) (INCHES) SAME AS WALL UP TO 8'-0" SAME AS WALL 2 #5 TOP & BOTTOM UP TO 10'-0" SAME AS WALL 2 #5 TOP & BOTTOM FOR WIDER OPENINGS CONTACT THE STRUCTURAL ENGINEER. SEE

THE MASONRY BEAM SCHEDULE FOR ADDITIONAL INFORMATION. A. GROUT JAMBS SOLID FOR FULL HEIGHT OF WALL (FLOOR TO FLOOR AND/OR ROOF) AT SIDES OF OPENING; ONE CELL FOR EACH 4'-0" OF SPAN OR PORTION THEREOF. REINFORCE WITH 2-#5 VERTICAL BARS IN EACH GROUTED CELL WITH ONE BAR PLACED AT EACH FACE OF WALL, TYPICAL, UNLESS NOTED OTHERWISE. SEE PLANS, SCHEDULES, AND DETAILS FOR OTHER REINFORCING

C. FIELD WELDING OF STRUCTURAL STEEL

SPECIAL INSPECTION SPECIAL INSPECTION SHALL BE REQUIRED FOR THE FOLLOWING ITEMS PER CHAPTER 17 OF THE IBC: A. INSTALLATION OF POST-INSTALLED CONCRETE ANCHORS PER MANUFACTURER'S SPECIFICATIONS. B. MASONRY CONSTRUCTION (TYPE A)

NAILING O.C. Bmm) (2) 16d, END NAIL O.C. O.C.
(2) 16d, END NAIL O.C.
(2) 16d, END NAIL O.C.
O.C.
O.C.
c.
D.C. ALONG EACH EDGE
0.C.
O.C. AT TOP & BOTTOM & STAGGERED, (2) 20d AT ENDS & AT EACH SPLICE
ARING
46 AL Q
16 GA 9
16 GA 9 16 GA 9
_ _ _ _

FASTENESISTANT ROOFING NAILS WITH 716 INCH DIAMETER (11mm) HEAD AND 1 1/2 INCH (38mm) LENGTH FOR 1/2 INCH (12.7mm) SHEATHING AND 1 3/4 INCH (44mm)

9. CORROSION-RESISTANT STAPLES WITH NOMINAL 7/16 INCH (11mm) CROWN AND 1 1/8 INCH (29mm) LENGTH FOR 1/2 INCH (12.7mm) SHEATHING AND 1 1/2 INCH (38mm) LENGTH

10. PANEL SUPPORTS AT 16 INCHES (406mm) [20 INCHES (506mm) IF STRENGTH AXIS IN THE LONG DIRECTION OF THE PANEL, UNLESS OTHERWISE MARKED]. CASING OR FINISH NAILS SPACED 6 INCHES (152mm) ON PANEL EDGES, 12 INCHES (305mm) AT INTERMEDIATE SUPPORTS.

11. PANEL SUPPORTS AT 24 INCHES (610mm). CASING OR FINISH NAILS SPACED 6 INCHES (152mm) ON PANEL EDGES, 12 INCHES (305mm) AT INTERMEDIATE SUPPORTS.

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- A Utah Corporation

ENGINEERS

SURVEYORS

PLANNERS

ERIC B. MURRAY Signed: 08/30/2022 STRUCTURAL ELEMENTS ONLY

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STRUCTURAL PLANS ARE FOR CONVENIENCE ONLY. VERIFY ALL DIMENSIONS WITH THE CURRENT ARCHITECTURAL PLANS PRIOR TO CONSTRUCTION.

1 DESCRIPTION

LEI PROJECT #: 2022-2349 DRAWN BY:

> SCALE: NTS DATE: 8/30/2022

CHECKED BY:

EBM

