

**VICINITY MAP** 

E Bethany Home Rd





	S/T/R: JURISDICTION: ZONING: CONSTRUCTIO	15 2N 3E PHO R1-10 LOT N YEAR:	DENIX #:86 1960
PR	OJECT DESCRIPT	'ION:	
	NEW R	ESIDENCE	
OW	NER'S INFORMAT	ION:	
	AREAS		
NEW RESIDENCE	LIVABLE	3,479	SQ. FT.
NEW REAR PATIO	NON-LIVABLE	216	SQ. FT.
NEW FRONT PORCH	NON-LIVABLE	53	SQ. FT.
NEW 3 CAR GARAGE	NON-LIVABLE	821	SQ. FT.
	TOTAL AREA		
LIVAB	LE	3479	SQ. FT.
NON LIV	1,090	SQ. FT.	
TOTAL (LIVABLE+	4,569	SQ. FT.	
LOT SI	ZE	11,448	SQ. FT.
LOT COVE	RAGE	39.91	%
MAX LOT CC	VERAGE	40	%

PROJECT ADDRESS:

PROPERTY INFORMATION:

PARCEL# (APN):

2108 E Solano Dr Phoenix AZ, 85016

164-48-050



#### **GENERAL NOTES**

- DIMENSION OF FLOOR PLAN ARE SHOWN TO FACE OF STUD TYPICALLY. CONTRACTOR TO VERIFY ROUGH OPENINGS REQUIREMENTS OF ALL DOOR AND WINDOWS UNITS PRIOR TO START OF CONSTRUCTION. CEILINGS AND WALLS SHALL BE ONE LAYER 1/2 INCH GYP BOARD, GARAGE WALLS TO SHALL BE 5/8 INCH GYP BOARD
- SEE TYPICAL FLOOR PLAN DETAILS SHEET AD FOR KITCHEN, BATH LAUNDRY WATER HEATER AND ATTIC ACCESS NOTES.
- ALL EXTERIOR AND ENTRY DOORS TO BE SOLID CORE 1 3/4 INCH THICK ALL INTERIOR DOOR TO BE HOLLOW CORE 1 3/8 INCH THICK (REFER PLAN FOR SIZE)
- ALL CEILING PER SECTION AND ELEVATION
- ALL EXTERIOR WALLS AROUND LIVABLE FLOOR SPACE, WALL BETWEEN GARAGE AND LIVABLE FLOOR SPACE SHALL RECEIVE MINIMUM R-13 INSULATION IN 2X4 WALLS AND R-19 IN 2X6 WALLS.
- SHOWER AREA WALL SHALL BE FINISHED WITH APPROVED 'CEMENT'. FIBER-CEMENT'. OR 'GLASS MAT GYPSUM'
- COORDINATE CLOSET ROD AND SHELF WITH BUILDER
- REFER TO PLUMBING PLAN FOR PLUMBING FIXTURES CALCULATIONS.
- REFER TO ELECTRICAL PLAN FOR OUTLETS SWITCHES AND LIGHTS LOCATIONS
- REFER TO MECHANICAL PLAN FOR ALL DUCT LOCATIONS AND SPECIFICATIONS OF A/C WORK. REFER TO ELEVATIONS AND SECTIONS PLAN FOR SOFFIT HEIGHTS HEADER HEIGHTS SLOPES
- CENTER-LINE OF WATER CLOSET SHALL BE A MINIMUM OF 15" FROM ANY VERTICAL SURFACE ( FIXTURE.
- PROVIDE CONCRETE PAD TO SEAT MECHANIC EQUIPMENT FLAT ARCH SOFFIT PER ELEVATIONS
- DRYER VENT V.T.R. TO COMPLY WITH CURRENT CODES
- A. EMERGENCY & RESCUE OPENINGS AT SLEEPING AREAS: NET CLEAR OPENING: 5.7 SQ FT MIN; NE CLEAR OPENING HEIGHT: 24" MIN.; NET CLEAR OPENING WIDTH: 20" MIN.; WINDOW SILL HEIGHT 44" MAX, ABOVE THE FLOOR, (BASED ON R310,21-R310,2,2)
- AB. WALL AND CEILING FINISHES SHALL HAVE A FLAME SPREAD INDEX OF NOT GREATER THAN 200. AC. WALL AND CEILING FINISHES SHALL HAVE A SMOKE-DEVELOPED INDEX OF NOT GREATER THAN
- 450 AD. FLAME SPREAD INDEX SHALL NOT EXCEED 25 AND SMOKE DEVELOPED INDEX SHALL NOT EXCEED 450 FOR INSULATION.
- AE. CONTRACTOR TO INSTALL <sup>5</sup>" GYPSUM BOARD 1-HR FIRE-RATED AT CARPORT WALLS AND CEILING.

- THE FLOOR. TEMPERED (IRC R307.2).





### GENERAL ELEVATION NOTES

- A. ONE(1) COAT STUCCO SYSTEM (ESR-2323) OVER 1" GA SELF-FURRED WOVEN WIRE FABRIC OVER 1" SUBSTRATE (AS LISTED BELOW) OVER 1-GRADE "D" BUILDING PAPER(U.N.O) SUBSTRATE:
- 1) FROM TOP OF SLAB TO ROOF PLATE LINE 1" EXPANDED POLYSTYRENE
- 2) ABOVE TOP PLATE:1" INSULATIONS FOAM BOARD, EXCEPTIONS: AT OPTIONAL CATHEDRAL INSULATION,1" EXPANDED POLYSTYRENE SHALL BE USED AT ALL CONDITIONED AREAS BELOW AND ABOVE TOP PLATE.
- MAG ONE-COAT STUCCO COMPLIANCE PROGRAM, ALL ONE-COAT STUCCO B SYSTEMS SHALL BE APPLIED BY MANUFACTURERS APPROVED INSTALLERS. AN APPROVED WEATHER-RESISTIVE BARRIER SHALL BE INSTALLED OVER ALL FRAMING AND WOOD BASED SHEATHING
- PROVIDE (2) LAYER 30# FELT FLASHING AT ALL HEADS, JAMBS, AND SILLS OF WINDOWS AND DOOR OPENINGS. SEE TYP. DETAIL
- PROVIDE CONTINUOUS SEALANT BEAD WHERE STUCCO ABUTS WINDOWS AND DOORS FRAME SO AS TO PROVIDE A WEATHER RESISTIVE BARRIER.REFER TO DETAIL
- PROVIDE CONT. 26 GA. G.I. WEEP SCREED, WITH 3-1/2" VERTICAL NAILING Κ. FLANGE AT +4" ABOVE FINISH GRADE SEE DTL. 100
- ALL NON-VERTICAL STUCCO SURFACES (STUCCO SHAPES)TO BE SLOPED MIN <sup>1</sup>/<sub>8</sub>" PER 12" AND WATER-PROOFED WITH ONE LAYER OF BITHETHANE WATERPROOF MEMBRANE

#### NOTES

- A. FOR APPLICATION WITHOUT ADHESIVE, A PAIR OF NAILS SPACED NOT LESS THAN 2 INCHES APART OR MORE THAN 2-1/2 INCHES APART MAY BE USED WITH THE PAIR OF NAILS SPACED 12 INCHES ON CENTER.
- SCREWS SHALL BE IN ACCORDANCE WITH SECTION R702.3.6. SCREWS USED TO ATTACH GYPSUM BOARD TO STRUCTURAL INSULATED PANELS SHALL PENETRATE THE WOOD STRUCTURAL PANEL FACING NOT LESS THAN 7/16 INCH
- WHERE COLD-FORMED STEEL FRAMING IS USED WITH A CLINCHING DESIGN TO RECEIVE NAILS BY TWO EDGES OF METAL, THE NAILS SHALL BE NO LESS THAN 5/8 INCH LONGER THAN THE GYPSUM BOARD THICKNESS AND SHALL HAVE RINGED SHANKS. WHERE THE COLD-FORMED STEEL FRAMING HAS A NAILING GROOVE FORMED TO RECEIVE THE NAILS, THE NAILS SHALL HAVE BARBED SHANKS OR BE 5D, 131/2 GAGE, 15/8 INCHES LONG, 15/64-INCH HEAD FOR 1/2-INCH GYPSUM BOARD; AND 6D, 13 GAGE, 17/8 INCHES LONG, 15/64-INCH HEAD FOR 5/8-INCH GYPSUM BOARD.
- THREE-EIGHTHS-INCH-THICK SINGLE-PLY GYPSUM BOARD SHALL NOT BE USED ON A CEILING WHERE A WATER-BASED TEXTURED FINISH IS TO BE APPLIED, OR WHERE IT WILL BE REQUIRED TO SUPPORT INSULATION ABOVE A CEILING. ON CEILING APPLICATIONS TO RECEIVE A WATER-BASED TEXTURE MATERIAL, EITHER HAND OR SPRAY APPLIED, THE GYPSUM BOARD SHALL BE APPLIED PERPENDICULAR TO FRAMING. WHEN APPLYING A WATER-BASED TEXTURE MATERIAL, THE MINIMUM GYPSUM BOARD THICKNESS SHALL BE INCREASED FROM 3/8 INCH TO 1/2 INCH FOR 16-INCH ON CENTER FRAMING, AND FROM 1/2 INCH TO 5/8 INCH FOR 24-INCH ON CENTER FRAMING OR 1/2-INCH SAG-RESISTANT GYPSUM CEILING BOARD SHALL BE USED.
- TYPE X GYPSUM BOARD FOR GARAGE CEILINGS BENEATH HABITABLE ROOMS SHALL BE INSTALLED PERPENDICULAR TO THE CEILING FRAMING AND SHALL BE FASTENED AT MAXIMUM 6 INCHES O.C. BY MINIMUM 17/8 INCHES 6D COATED NAILS OR EQUIVALENT DRYWALL SCREWS.GE.

#### **GENERAL NOTES**

- A. TYPICAL EXTERIOR WALL 2x4 (U.N.O.) WOOD STUDS AT 16" O.C. WITH GYP WALLBOARD AT INTERIOR FACE AND ONE(1) COAT STUCCO SYSTEM (ICC ESR-2323) OVER 1" GA SELF-FURRED WOVEN WIRE FABRIC OVER 1" SUBSTRATE (AS LISTED BELOW) OVER 1-GRADE "D" BUILDING PAPER(U.N.O) SUBSTRATE:
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- TYPICAL INTERIOR WALL 1/2" GYP. WALLBOARD EACH SIDE OF 2x6 WOOD STUDS AT 16" O.C. - PROVIDE SOUND INSULATION AS INDICATED ON PLAN.
- MINIMUM BATT INSULATION VALUES WALLS = R-19, AND ROOF = R-38.
- AREAS OUTSIDE THE THERMAL ENVELOP ARE REQUIRED TO MEET AIR LEAKAGE D. REQUIREMENTS PER N1102.4 PROVIDE REQUIRED AND THE PROVIDED NET FREE VENTILATING AREA. DETAIL AND
- NOTE ON THE PLANS THE LOCATION OF ROOF VENTILATION. IF A CONDITIONED ATTIC ASSEMBLY IS PROPOSED, SHOW COMPLIANCE WITH IRC806.5 GE. FOAM ROOF SYSTEM SEE IRC R905.14

#### LEGEND

BATT INSULATION - CONT., IM. MIN R-38 AT CEILINGS, AND R-19 AT <sup>III</sup> 2x6 WALLS, R-13 @2x4 WALLS @ 16" O.C IF THE OWNER / DEVELOPER CHOOSES TO USE SPRAY NOTE:

- FOAM INSULATION (DETAIL 500 ON THIS SHEET) INSTEAD OF BATT INSULATION, THE INSTALLATION SHOULD BE MADE AS DESCRIBED
- IN ESR-3228

#### ENERGY EFFICIENCY: (Arizona 2B Maricopa) HERMAL ENVELOPED AREAS OF THE BUILDING SHALL COMPLY WITH THE

FOLLOWING REQUIREMENTS: 0.40 MAXIMUM FENESTRATION U-FACTOR, 0.75 MAXIMUM SKYLIGHT U-FACTOR, 0.25 MAXIMUM GLAZED FENESTRATION SHGC. MINIMUM 38 R-VALUE AT CEILINGS, MINIMUM 13 R-VALUE AT WOOD FRAMED WALLS, MINIMUM 🛔 R-VALUE AT MASS WALLS, AND PROVIDE 13 R-VALUE AT FLOOR SUPPLY AND RETURN DUCTS IN ATTIC SHALL BE INSULATED WITH MINIMUM R-8 R-VALUE FOR 3" DIA. DUSTS AND NO LESS THAN R-6 FOR DUCTS SMALLER THAN 3" DIA. IN OTHER PORTION OF THE BUILDING SHALL BE INSULATED NOT LESS THAN R-6 3" DIA. DUCTS AND NOT LESS THAN R-4.2 FOR DUCTS SMALLER THAN 3" DIA.

N11025.4 (R402.4) THE BUILDING THERMAL ENVELOPED SHALL BE CONSTRUCTED TO LIMIT AIR AIR LEAKAGE IN ACCORDANCE WITH THE REQUIREMENTS OF SECTIONS N1102.4.1 THROUGH N1102.5

## **ELEVATION PLAN**

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

2108 E Solano Dr 2108 E Solano Dr PHOENIX AZ, 85016		andmin the own is designing.	and details contained in these	drawings, they could refer to	complementary information.	cannot be used by others	without a written approval	signed by AROM LLC.
2108 E Solano Dr PHOENIX AZ, 85016	Date	02/28/2023	03/28/2023					
2108 E Solano Dr PHOENIX AZ, 85016	Revisions							
2108 E Solano Dr PHOENIX AZ, 85016	Na	🔬 city comments	🖄 CITY COMMENTS					



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<ul> <li><b>NOTE FOR FIRE RATED WALL WHEN THE PROPERTY LINE IS 5' OR LESS</b></li> <li>FIRE-RESISTANCE-RATED FLOOR/CEILING AND WALL ASSEMBLIES SHALL EXTEND TO AND BE TIGHT AGAINST THE EXTERIOR WALL, AND WALL ASSEMBLIES SHALL EXTEND FROM THE FOUNDATION TO THE UNDERSIDE OF THE ROOF SHEATHING. (R302.3) OPENINGS OR PENETRATIONS THROUGH THE ROOF ARE PROHIBITED WITHIN THE 4-FT MINIMUM SEPARATION. ROOF DECKING / SHEATHING MUST BE NON-COMBUSTIBLE MATERIAL, FIRE-RETARDANT-TREATED WOOD OR PROTECTED BY 5/8-INCH TYPE-X GYPSUM BOARD. (R302.2.3)</li> </ul>	Z, Z
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OPTIONAL 2' WIDE EXTENSION NOTE:	S T C
CONTRACTOR OR TRUSS MANUFACTURE SHOULD PROVIDE EXTRA TRUSSES ON ENBRGE GIRDERS AS NEEDED,	08 E PHOE 8
	21
CITY OF PHOENIX         Planning and Development Department         BY: Justine Cornelius         O4/12/2023         This set of plans has been reviewed for PHOENIX         CONSTRUCTION CODE requirements prior to issuance of Building Permit and shall be kept at the construction site. Such review shall not prevent the plans where such errors are subsequently found by the plans	
STRUCTURAL CORRECTNESS	<b>CONTACT:</b> <b>(623)</b> 853 3751 <b>DRAWN BY:</b> Cristian G
	CHECKED BY:
SECTIONS PLAN	ARQM. LLC Date:
SCALE: 1/4" = 1'-00"	SCALE: PER PLAN
	SHEET: A-7

			WIN SCHE	DOW DULE	
WINDOW TYPE	W SIZE	H SIZE	HEADER HEIGHT	LOCATION	QUANTITY
XO	4'-0"	5'-0"	9'-0"	GUEST SUITE	1
OBSCURE XC	4'-0"	1'-6"	9'-0"	BATH 2	1
SH	2'-6"	5'-0"	9'-0"	BEDROOM 2	2
OBSCURE XC	4'-0"	1'-6"	9'-0"	BATH 1	1
SH	2'-6"	5'-0"	9'-0"	BEDROOM 1	2
XO	6'-0"	6'-0"	9'-0"	BEDROOM 1	1
FX	1'-6"	8'-0"	9'-0"	OFFICE	2
XO	4'-0"	1'-6"	9'-0"	OFFICE	1
XO	4'-0"	3'-0"	9'-0"	LAUNDRY	1
SH	2'-6"	5'-0"	9'-0"	OWNER'S BEDROOM	2
FX	1'-6"	8'-0"	9'-0"	OWNER'S BEDROOM	2
OBSCURE XC	2'-0"	4'-0"	9'-0"	BAR'S RESTROOM	1
ACCORDION	9'-0"	4'-6"	9'-0"	BAR	1

W/N

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			EXTERIOR GL SCHED	ASS DOOR ULE	
IDOW YPE	W SIZE	H SIZE	HEADER HEIGHT	LOCATION	QUANTITY
SGD	18'-0"	8'-0"	9'-0"	REAR PATIO	1
CORDION	6'-0"	8'-0"	9'-0"	BAR	1

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



	Odde       AROM LLC owns designs, concepts, information data, concepts, information data, and details contained in these drawings, they could refer to brands only as complementary information. Complementary informatic complementary informatic complementary informatic complemen
	No.     City comments       A     City comments       A     City comments
N DOW SCHEDULE	2108 E Solano Dr PHOENIX AZ, 85016
the second secon	CONTACT: (623) 853 3751 DRAWN BY: Esly Villar CHECKED BY: ARQM. LLC DATE: SCALE: PER PLAN SHEET: A-3

WINDOW SCHEDULE SCALE: 3/8" = 1'-0"

SCHEDULE



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Ορτ	IONAL 2' WIDE EXTENSION NOTE:		S E G
	RACTOR OR TRUSS MANUFACTURE SHOULD PROVIDE EXTRA TRUSSES ON ENBRGE		$\square \square \otimes$
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			$\sim$
			το (023) 853 3751 DRAWA RY•
			Esly Villar
			CHECKED BY:
	SECTIONS PLAN		
		1	

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



PER PLAN

A-3

SHEET:



(NON ALL USED) 22"x30" ATTIC ACCESS-PROVIDE 30" HEADROOM AT ALL ACCESS LOCATIONS. A.H.U. LOCATED IN ATTIC SPACE(VERIFY LOCATION). INSULATE AND WEATHER STRIP PER IRC SECTION N1102.2.4.		R
LINE OF BUILDING	1 I L	AR
ROOF LINE (OVERHANG LINE)		
SHINGLE       O'HAGIN       SHINGLE       VENT       SQUARED       BOX       VENT       98.75SQUARE       INCHES       NET         I		ta, ese
	, Sr	, da da

NOT IN SCOPE OF WORK

<u></u>			
ATTIC VENT	CALCULATION	<u>NS ZONE</u>	1
		VENT	ROUND BACK VENT
ROOF AREA	ROOF AREA	RADIO	(MODEL
SQ .FT.		1/300	RBV-10-C2-CMF) 78.5
	50.111.	SQ.IN	SQ.IN
1967.00	283248.00	944.16	12.0275
PROVIDE MI	NIMUM 12 VI	ENTS	
ATTIC VENT	CALCULATION	ns zone	E 2
	τοται	VENT	ROUND BACK VENT
ROOF AREA		RADIO	(MODEL
SQ .FT.	ROUF AREA	1/300	RBV-10-C2-CMF) 78.5
	3Q.IN.	SQ.IN	SQ.IN
839.00	120816.00	402.72	5.1302
PROVIDE MI	NIMUM 5 VEI	NTS	
ATTIC VENT	CALCULATION	ns zone	Ξ 3
		VENT	ROUND BACK VENT
ROOF AREA	ROOF AREA	RADIO	(MODEL
SQ .FT.		1/300	RBV-10-C2-CMF) 78.5
	SQ.IN.	SQ.IN	SQ.IN
638.00	91872.00	306.24	3.9011
PROVIDE MI	NIMUM 4 VEI	NTS	
ATTIC VENT	CALCULATION	ns zone	E 4
	TOTAL	VENT	ROUND BACK VENT
ROOF AREA		RADIO	(MODEL
SQ .FT.	ROOF AREA	1/300	RBV-10-C2-CMF) 78.5
	SQ.IN.	SQ.IN	SQ.IN
416.00	59904.00	199.68	2.5437
PROVIDE MI	NIMUM 2 VEI	NTS	
ATTIC VENT	CALCULATION	ns zone	5
		VENT	ROUND BACK VENT
ROOF AREA		RADIO	(MODEL
SQ .FT.		1/300	RBV-10-C2-CMF) 78.5
	SQ.IN.	SQ.IN	SQ.IN
316.00	45504.00	151.68	1.9322
PROVIDE MI	NIMUM 2 VEI	NTS	

RQM LLC 2108 E Solano Dr PHOENIX AZ, 85016 **CONTACT:** (623) 853 3751 **DRAWN BY:** Esly Villar CHECKED BY: Arom. LLC DATE: SCALE: PER PLAN

SHEET:





# ACTUAL ROOF SF TO DRAIN IN A TOTAL OF 3 - 6 "SCUPPRERS = 1,742 SF TYPICAL SCUPPER

ALLOWABLE ROOF SF TO DRAIN IN A TOTAL OF 3 - 6" SCUPPERS = 20,400 SF

6 INCHES 4246,800 SF

SIZE OF DRAIN FLOW GPM 6 INCHES PER HOUR





Plan	CITY OF P ning and Develop	HOENIX ment Departr	nent
BY: Justine	Cornelius		
	04/12/2	2023	
This set of CONSTRUE issuance of construction Building Off	plans has been CTION CODE Building Permit a site. Such revie icial from requiri	reviewed for requirements and shall be ew shall not p ng correction	PHOENIX prior to kept at the prevent the of errors in

24 GA. SCUPPER LINER. LAP

PRIOR TO INSTALLATION OF

ROOFING FELTS.

PER IPC TABLE 1106.6

6X6 MIN. OPENING

& SOLDER ALL JOINTS. INSTALL

NOT TO SCALE







CONTACT:
<b>L</b> (623) 853 3751
DRAWN BY:
Cristian G.
CHECKED BY:
AROM. LLC
DATE:
SCALE:
PER PLAN
SHEET:



![](_page_9_Figure_0.jpeg)

# ELECTRICAL LIGHTING PLAN

![](_page_9_Picture_2.jpeg)

#### FAN MOUNTING DETAIL

RECESSED E3905.8 BOXES AT FAN OUTLETS. OUTLET BOXES AND OUTLET BOX SYSTEMS USED AS THE SOLE SUPPORT OF CEILING-SUSPENDED FANS (PADDLE) SHALL BE MARKED BY THEIR MANUFACTURER AS SUITABLE FOR THIS PURPOSE AND SHALL NOT SUPPORT CEILING-SUSPENDED FANS (PADDLE) THAT WEIGH MORE THAN 70 POUNDS (31.8 KG). FOR OUTLET BOXES AND OUTLET BOX SYSTEMS DESIGNED TO SUPPORT CEILING-SUSPENDED FANS (PADDLE) THAT WEIGH MORE THAN 35 POUNDS (15.9 KG), THE REQUIRED MARKING SHALL INCLUDE THE MAXIMUM WEIGHT TO BE SUPPORTED. WHERE SPARE, SEPARATELY SWITCHED, UNGROUNDED CONDUCTORS ARE PROVIDED TO A CEILING-MOUNTED OUTLET BOX AND SUCH BOX IS IN A LOCATION ACCEPTABLE FOR A CEILING-SUSPENDED THAT DELEVICE AROVINE A OUTEET BOX OR IS OUTEET BOX SYSTEM SHALL BE LISTED FOR SOLE SUPPORT OF A SUSPENDED (PADDLE) FAN. [2017] NEC 314.27(C)]

# OUTLET BOX

- ELECTRICAL GENERAL NOTES
- A. PROVIDE A BONDING CONDUCTOR-MINIMUM OF ON #4 COPPER WIRE CONNECTING THE BUILDERS WATER PIL THE SERVICE EQUIPMENT ENCLOSURE GROUNDING BUSS [2017 NEC 250...].
- B. AT LEAST ONE (1) 120-VOLT, 20-AMP BRANCH CIRCUIT SHALL BE INSTALLED TO SUPPLY RECEPTACLE OUTLE GARAGES AND IN DETACHED GARAGES WITH ELECTRIC POWER. THIS CIRCUIT SHALL HAVE NO OTHER OUT E3703.5). 2017 NEC 210.11(C)(4).
- C. PROVIDE ACCESS AND WORKING SPACE ABOUT ALL ELECTRICAL EQUIPMENT (INCLUDING DISCONNECTS) PER 2018 IRC R3405.
- D. MEMBRANE PENETRATION SHALL COMPLY WITH SECTION R302.4.1. WHERE WALLS ARE REQUIRED TO HAVE A RATING. RECESSED FIXTURES SHALL BE INSTALLED SO THAT THE REQUIRED FIRE-RESISTANCE RATING WILL N
   E. ALL EXTERIOR ELECTRICAL RECEPTACLES SHALL BE GROUND FAULT CIRCUIT PROTECTED AND MUST BE WATE
- F. 200 AMP. SERVICE WITH METER; VERIFY LOCATION.
- G. VERIFY ALL CEILING LIGHT FIXTURES WITH MECHANICAL CONTRACTOR.
- H. ELECTRICAL CONTRACTOR TO PROVIDE REQUIRED DIRECT HOOK-UPS/CUT-OFFS, AND INSURE ALL COORDINATED WITH EQUIPMENT AND APPLIANCES, ALL ALL CIRCUITRY IS CORRECT AND ALL CODES AND MET. ELECTRICAL CONTRACTOR SHALL INSTALL ALL EQUIPMENT IN ACCORDANCE WITH MANUFACTURERS SPE
   I. HVAC CONTRACTOR TO VERIFY THERMOSTAT LOCATION.
- E3903.3 ADDITIONAL LOCATIONS. AT LEAST ONE WALL-SWITCH-CONTROLLED LIGHTING OUTLET SHALL HALLWAYS, STAIRWAYS, ATTACHED GARAGES, AND DETACHED GARAGES WITH ELECTRIC POWER. WALL-SWITCH-CONTROLLED LIGHTING OUTLET SHALL BE INSTALLED TO PROVIDE ILLUMINATION ON THE E EACH OUTDOOR EGRESS DOOR HAVING GRADE LEVEL ACCESS, INCLUDING OUTDOOR EGRESS DOORS GARAGES AND DETACHED GARAGES WITH ELECTRIC POWER. A VEHICLE DOOR IN A GARAGE SHALL NOT BE C OUTDOOR EGRESS DOOR.
- K. M1305.1.2.1 ELECTRICAL REQUIREMENTS. A LUMINARIES CONTROLLED BY A SWITCH LOCATED AT THE REQUIR OPENING AND A RECEPTACLE OUTLET SHALL BE INSTALLED AT OR NEAR THE APPLIANCE LOCATION IN AC CHAPTER 39. EXPOSED LAMPS SHALL BE PROTECTED FROM DAMAGE BY LOCATION OR LAMP GUARDS.
- L. THE TYPES OF LUMINAIRES INSTALLED IN CLOTHES CLOSETS SHALL BE LIMITED TO SURFACE-MOUNTE INCANDESCENT OR LED LUMINAIRES WITH COMPLETELY ENCLOSED LIGHT SOURCES. INCANDESCENT LUMIN OR PARTIALLY ENCLOSED LAMPS AND PENDANT LUMINAIRES OR LAMP-HOLDERS SHALL BE PROHIBITED. (E400

![](_page_9_Figure_17.jpeg)

PIPING SYSTEM TO LETS IN ATTACHED UTLETS. (SEE IRC 2017 NEC 110 26 & THE CEILING CAVITY, ALL RECE	<b>IXTURE (CODE IN</b> LED IN THE BUILDING THEF AGE BETWEEN CONDITION ARIES SHALL BE IC-RATED 1.57 PSF (75 PA) PRESSUF OF AIR MOVEMENT FROM THE SSED LUMINARIES SHALL B	<b>TERPRETATION</b> RMAL ENVELOPE SHALL BE ED AND UNCONDITIONED AND LABELED AS MEETING RE DIFFERENTIAL WITH NO IE CONDITIONED SPACE TO E SEALED WITH A GASKET		
A FIRE-RESISTANT NOT BE REDUCED. ER PROOF VOLTAGES ARE ORDINANCES ARE ECIFICATIONS. BE INSTALLED IN AT LEAST ONE EXTERIOR SIDE OF S FOR ATTACHED CONSIDERED AS AN RED PASSAGEWAY CCORDANCE WITH ED OR RECESSED JAIRES WITH OPEN 3.12)	ING AND THE INTERIOR WAL ALL BE SEPARATED NOT LI FAN MOTOR AND OTHER H	L OR CEILING COVERING. ESS THAN 3 INCH (76 mm) EAT PRODUCING DEVICES. NOTE: NOT LESS THAN 90% OF THE PERMANENTLY INSTALLED LIGHTING FIXTURES SHALL CONTAIN ONLY HIGH-EFFICACY LAMPS PER N1104.1.	می مرد (02/28/2023 ARQM LLC owns designs, 02/28/2023 and details contained in these 03/28/2023 drawings they could refer to	brands uncy countries to brands only as complementary information. cannot be used by others without a written approval signed by ARQM LLC.
	ACRETE NDING		Serial Comments	
	€ € CONCRETE LANDING		2108 E Solano Dr	PHOENIX AZ, 85016
1 1 1 1 1 1 1 1 1 1 1 1 1 1			CONTACT (623) DRAWN B Esi CHECKET ARC DATE: SCALE: PE SHEET:	<b>T:</b> 853 3751 Y: ly Villar <b>D BY:</b> QM. LLC R PLAN <b>E-1</b>

ELECTR	ICAL SYMBOL SHEDULE (NON ALL USE	ED)
SYMBOL	DESCRIPTION	
$\oplus$	120 VOLT DUPLEX CONVENIENCE OUTLET	
<b>2</b> 20	220 VOLT OUTLET	
-	1/2 HOT 120 VOLT OUTLET	
-	120 VOLT CEILING OUTLET	
GFI	GROUND FAULT INTERRUPTER	
GFCI	GROUND FAULT CIRCUIT INTERRUPTER	
WP	WEATHER PROOF	
WR	WEATHER RESISTANT	
AFI	ARC FAULT INTERRUPTER	
(SD)	110V SMOKE DETECTOR INTERCONNECTED TO BE HARD WIRED WITH BATTERY BACK UP. ACCORDING WITH (IRC R314 & R315)	
SD/CO	SMOKE DETECTOR AND CARBON MONOXIDE DETECTOR ALARM TO BE WITH BATTERY BACK UP. ACCORDING WITH (IRC R314 & R315)	
1	THERMOSTAT	
TV	COAX-RJ45 RECEPTACLE PLATE	
•	PUSH SWITCH GARAGE DOOR	
	DISCONNECT SWITCH	
	200 AMP ELECTRIC PANEL	
G.D.	GARBAGE DISPOSAL	

PA	N	EL SCHEDU
MATN	S:	200 A MCS
	AGE:	120/240 1@3
LOAD	WIRE SIZE	CIRCUIT DESC
ÁF-20	14	GUEST SUITE
AF-30	12	KITCHEN APPLIANCE
AF-30	12	KITCHEN APPLIANCE
AF-20	12	HALL
AF-20	14	BEDROOM 2
AF-20	14	DINNING ROOM
AF-20	12	LIVING ROOM
AF-20	12	GUEST BATH
AF-30	10	LAUNDRY
AF-20	14	OWNER'S BEDROOM
AF-20	14	BEDROOM 3
AF-20	12	OWNER'S BATH
ĀF-20	14	OWNER'S CLOSET
		GARAGE
		SPACE

![](_page_10_Figure_2.jpeg)

ELECTRICAL L	OAD CALC	ULA	TION		
DESCRIPTION	COUNT		WATTS	TOTAL	
LIV.SF. X 3 WATTS	3,479	Х	3	10,437	
SMALL APPLIANCES KITCHEN	2	Х	1,500	3,000	
LAUNDRY CIRCUIT	1	Х	1,500	1,500	
DISHWASHER/DISP.	1	Х	1,500	1,500	
RANGE	1	Х	12,000	12,000	
REFRIGERATOR	1	Х	1,500	1,500	
DRYER CIRCUIT(S)	1	Х	5,000	5,000	
MICROWAVE	1	Х	1,500	1,500	
WATER HEATER	1	Х	4,500	4,500	
GARAGE DOOR	0	Х	600	0	
GARAGE GFI	0	Х	1,500	0	
CAR CHARGER	1	Х	10,000	10,000	
SMOKE AND CO DETECTORS	1	Х	50	50	
		ξ	SUB-TOTAL	50,987	
FIRST 10 KW @ 100%			10,000		
		ç	SUB-TOTAL	40,987	
REMAINDER @ 40%				16,395	
	TOTAL	GEN	ERAL LOAD	26,395	
HVAC EQUIPMENT (1)	5.0 TON	Х	2,400 W	12,000	
HVAC EQUIPMENT (1)	5.0 TON	Х	2,400 W	12,000	
	TOTAL	LOAE	IN WATTS	50,395	
TOTAL LOAD DIVIDED BY 240 VOLTS					
	SERVICE S	IZE T	O BE USED	200 AMP	

![](_page_10_Picture_4.jpeg)

CONTACT: **L** (623) 853 3751 DRAWN BY: Esly Villar CHECKED BY: ARQM. LLC DATE:

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SCALE: PER PLAN SHEET: E-2

#### NOTES

1. SEE GENERAL STRUCTURAL NOTES ON DRAWINGS FOR OTHER INFORMATION. ALL SHEATHING CONTINUOUS TO TOP OF WALL UNLESS NOTED OTHERWISE. NAILING REQUIREMENTS APPLY AT ALL PANEL EDGES, TOP AND BOTTOM PLATES AND BLOCKING. STUDS FOR PLYWOOD SHEAR WALLS TO BE NOT SMALLER THAN 2 X 4 SPACED AT NOT MORE THAN AT 24" O.C. (TYPICAL) U.N.O. ON SHEAR WALL SCHEDULE. STUDS FOR GYPSUM WALL BOARD SHEAR WALLS TO BE NOT SMALLER THAN 2 X 4 SPACED AT NOT MORE THAN AT 16" O.C. SEE SHEAR WALL ELEVATIONS IN DETAILS FOLLOWING FOR INFORMATION NOT SHOWN. 3/8" AND 1/2" PANEL GRADE 2-M-W ORIENTED STRAND BOARD MAY BE SUBSTITUTED FOR 3/8" AND 15/32" PLYWOOD SHEATHING, RESPECTIVELY. 7/16" PANEL GRADE 2-M-W ORIENTED STRAND BOARD MAY BE SUBSTITUTED FOR 15/32" PLYWOOD SHEATHING PROVIDING STUDS ARE SPACED A MAXIMUM OF 16" ON CENTER.

2. SILL PLATE BOLTING SUBSTITUTIONS: THE FOLLOWING SUBSTITUTIONS MAY BE MADE FOR THE 1/2" DIAMETER ANCHOR BOLTS ABOVE

- ALL INTERIOR WALLS: 1/2" DIAMETER WEDGE ANCHORS (ICC APPROVED) 2-1/4" MIN. EMBED AT SAME SPACING.
- ALL EXTERIOR AND/OR INTERIOR WALLS: 1/2" DIAMETER EPOXY ANCHORS (ICB APPROVED) -2-1/4" MIN. EMBED AT SAME SPACING.

SIMPSON SET EPOXY - TIE ADHESIVE (REDUCTION FACTOR FOR ABSENCE OF SPECIAL INSPECTION WAS USED)

- INTERIOR GYPSUM WALLBOARD WALLS ONLY: HILTI PINS X-DNI 72P8 AT SAME SPACING AS THE 16D WALL PLATE NAILING INDICATED FOR 2ND FLOOR CONDITION INDICATED IN SHEAR WALL SCHEDULE.
- 3. NAILS INDICATED IN TABLE ARE COMMON NAILS. 16D SINKERS MAY BE SUBSTITUTED FOR 16D COMMON NAILS BUT PLACED AT 0.87 TIMES THE SPACING

#### FRAMING NOTES

#### A. PROVIDE 2X SOLID BLOCKING AT ALL SPANS EXCEEDING 8'-0" AND AT ALL BEAMS AND BEARING PARTITIONS.

- B. PROVIDE 2X FIRE BLOCKING AT ALL FURR DOWNS AND 8'-0" FROM FINISH FLOOR AT ALL INTERIOR AND EXTERIOR PARTITIONS.
- C. PROVIDE MIN. 2" CLEARANCE AT CHIMNEY FRAMING MEMBERS.
- D. ALL EXTERIOR WALLS AND MAIN CROSS STUD PARTITIONS SHALL BE BRACED AT EACH 25'-0" OF LENGTH WITH 1X4 LET-INS OR APPROVED STEEL STRAPS. E. TRUSS DESIGN SHALL BE SEALED AND SIGNED BY AN ENGINEER LICENSED IN ARIZONA.
- TRUSSES SHALL BE APPROVED BY THE CITY CODE ENFORCEMENT DEPT WHERE PERMITTED A TRUSS WAIVER MAY BE USED. G.C. REVIEW PRIOR TO FABRICATION.
- F. TRUSSES FOR BUILT-UP ROOFS SHALL BE DESIGNED FOR A MIN. OF 35 A MIN OF 40 LBS. TOTAL LOAD.
- G. PROVIDE SIMPSON JOIST HANGERS AT ALL JOIST LO LEDGER CONNECTIONS.
- H. PROVIDE 16 GA. SIMPSON ST 6224 TIE STRAPS AT ALL RIDGE TO BEAM CONNECTIONS ALL PITCHED JOIST TO BE NOTCHED @ BEARING POINTS
- J. PROVIDE SIMPSON P.B. AND P.C. CONNECTIONS AT ALL POSTS. ALL MEMBER SHALL BE FRAMED, ANCHORED, TIED AND BRACED TO DEVELOP THE STRENGTH AND RIGIDITY NECESSARY FOR THE PURPOSE OF WHICH THEY ARE INTENDED.
- K. ROOF PITCH FORM NEW CONSTRUCTION SHALL BE  $\frac{1}{2}$ " PER FOOT MIN.
- \_. 🛛 ROOF DECK 🗄 "CDX PLYWOOD PI W/ 8d @ 6" O.C. JOISTS AND 8d @ 12" O.C. FIELD. OR USE 🗄 O.S.B. BOARD IN LIEU OF PLYWOOD (G.C. OPTION). ALL ROOF OVERHANGS SHALL BE EXTERIOR GRADE.
- M. ALL ROOF DRAINS SHALL HAVE AN ADJACENT OVERFLOW DRAIN SET 2" ABOVE THE FLOW LINE OF THE MAIN ROOF DRAIN. (IF USED IN LIEU OF SCUPPERS.) N. TRUSS DIAGRAMS TO BE PROVIDED TO THE CITY INSPECTOR AT TIME OF FRAMING INSPECTION.
- USE 2X STUDS AT ALL BEAMS, HEADERS, MULTIPLE TRUSSES & TRUSS GIRDER SUPPORTS. U.N.O. O. WALL SOLE PLATES TO BE REDWOOD OR PRESSURE TREATED.
- P. SOLE PLATE ANCHORAGE 6'-0" O.C. & 12" MAX. FROM PLATE ENDS, 7" (MIN.) EMBEDMENT, <sup>1</sup>/<sub>2</sub>" A.B. (MIN.) OR APPROVED ANCHORAGE.
- Q. ALL INTERIOR AND EXTERIOR WALL ADJACENT A VAULTED CEILING SHALL BE BALLOON FRAMED WITH FIRE-BLOCKING AT 8'-0".
- R. BRIDGING SHALL BE SOLID BLOCKING AT 8' MAX. AND/OR 8' O.C. BRACE WALLS AT END 25' LENGTH OR EQUIVALENT WHIT APPROVED DIAGONAL BRACING.
- ALL FRAMING ANCHORS BY "SIMPSON" OR APPROVED EQUAL.

#### FOUNDATION NOTES

#### A. FOUNDATIONS:

- A.A. ALL INTERIOR AND EXTERIOR FOOTINGS SHALL BEAR A MINIMUM OF 1'6" BELOW UNDISTURBED NATIVE SOIL (EXISTING OR FINISH GRADE IS NOT SYNONYMOUS WITH UNDISTURBED SOIL)
- A.B. BEARING DEPTH SHALL BE MEASURED AT THE ADJACENT ELEVATION FOR UNDISTURBED SOIL A.C. PROVIDE A MINIMUM OF (2)#4 REBAR CONT. IN FOOTING OR STEM WALL, OR 1 IN FOOTING
- AND 1 IN STEM WALL
- REINFORCING STEEL SHALL BE INTERMEDIATE GRADE ASTM 15-40 (F'y=60,000 P.S.I.) A.D. DEFORMED BARS IN ACCORDANCE WITH LATEST ASTM SPECIFICATIONS. A.E. ARRANGEMENT AND BENDING OF BARS AS PER ACI DETAIL MANUAL.
- A.F. LAP REINFORCEMENT A MINIMUM OF 32 DIA. WITH A MINIMUM LAP OF 12".
- A.G. CONCRETE PROTECTION FOR BARS:
- SURFACE EXPOSED TO AIR MIN. CLR. DISTANCE FROM SURFACE TO BAR SHALL BE 3". A.G.A. SURFACE EXPOSED TO EARTH MIN. CLR. DISTANCE FROM SURFACE TO BAR SHALL BE A.G.B. 1-1/2".
- A.H. MINIMUM THICKNESS OF A STUD BEARING SHALL BE 8".
- A.I. PROVIDE (2)#4'S IN FOOTING ABOVE ALL RETURN AIR DUCTS
- A.J. NOTIFY THE ARCHITECT OF ANY SPECIAL CONDITION THAT ARE ENCOUNTERED DURING EXCAVATION AND BACKFILLING OPERATIONS.
- A.K. FOUNDATIONS DESIGN IS BASED UPON THE MINIMUM REQUIREMENTS SPECIFIED IN THE ABOVE MENTIONED GOVERNING BUILDING CODES I.B.C. 2012 SOILS ARE ASSUMED TO BE NON-EXPANSIVE AND NON COLLAPSIBLE. FINISH GRADE SHALL SLOPE AWAY FROM FOUNDATION WALLS.

#### B. CONCRETE

- B.A. SHALL MEET ALL THE REQUIREMENTS OF ACI 301-89 WITH TYPE II CEMENT, WITH NORMAL WEIGHT AGGREGATE. MINIMUM 28 DAYS STRENGTH 2500 PSI EXCEPT AS FOLLOWS: PROVIDE EXTERIOR WATERPROOF MEMBRANE UP TO 1'-0" BEYOND CONCRETE STEM AT ALL B.B. SUNKEN FLOORS.
- B.C. SEAL ALL VOIDS AROUND PIPING PASSING THRU CONCRETE FLOOR.
- B.D. ALL EXTERIOR CONCRETE FLAT WORK TO SLOPE A MINIMUM OF  $\frac{1}{8}$ " / FT. AND ALL LANDINGS AT DOORS TO SLOPE A MINIMUM OF  $\frac{1}{4}$ " /FT ALL SLABS, SIDEWALKS, AND DRIVEWAYS SHALL BE A MIN. OF 4" THICK ON 4" OF
- COMPACTED GRAVEL FILL, SOIL SHALL BE TERMITE TREATED PRIOR TO CONCRETE FILL. B.F. ALL BOTTOM PLATES SHALL BE ANCHORED TO THE FOUNDATION WITH A MINIMUM <sup>1</sup>/<sub>2</sub>" DIA.
- ANCHOR BOLT. HAVING A MINIMUM 7" EMBEDMENT OF 12" FROM PLATE ENDS. AT ALL HOLD DOWN LOCATIONS PROVIDE 1 #4 HORIZONTAL WITHIN TOP 6" OF STEM WALL. B.G.
- MACHINE BOLTS OR ANCHOR BOLTS SHALL BE ASTM-A307 STEEL, F'y = 36 KSI. ΒH A MINIMUM 28 DAY COMPRESSIVE STRENGTH WITH A MAXIMUM 4-1/2" 45° SLUMP TEST FOR RΙ CONCRETE FOOTINGS SHALL BE 2500 PSI, AND CONCRETE SLABS SHALL BE 3000 PSI
- ALL PROCEDURE, PLACEMENT, FORMWORK LAP, ETC. SHALL CONFORM WITH LATEST A.S.C.I. STANDARDS, MECHANICALLY VIBRATE ALL CONCRETE WHEN PLACED, EXCEPT THE
- SLABS ON GRADE NEED ONLY TO BE VIBRATE AROUND UNDER FLOOR DUCTS, ETC. MINIMUM STRENGTH FOR REMOVAL OF FORMS AND SHORING SHALL BE 71% OF SPECIFIED B.K. STRENGTH AT 28 DAY.
- CONTINUOUS FLOOR SLABS SHALL BE SAW CUT EVERY 600 S.F. FOR EXPANSION JOINTS. B.L. SAW CUTS SHALL BE UNDER INTERIOR NON-BEARING WALLS, OR IN AREAS NOT AFFECTING TILE FLOORS WHERE POSSIBLE.
- CONTRACTOR SHALL PROVIDE A 20' #4 COPPER WIRE UFER ATE ELECTRICAL SERVICE B.M. ENTRANCE.
- NO ADMIXTURES WITHOUT APPROVAL. ADMIXTURES CONTAINING CHLORIDES NOT BE USED B.N. REINFORCING COVERAGE: FOOTING - 3" MINIMUM BOTTOM & SIDES, WALLS 1-1/4" MINIMUM.

#### LUMBER

GENERAL: ALL STRESS GRADE LUMBER CO CONSTRUCTION STANDARDS LATEST EDITION STAMP OF GRADING RULES AGENCY APP COMMITTEE (A.L.S.C.). REGARDLESS OF RE LUMBER (EACH PIECE) IN BETTER WHEN INS A.I.S.C. GRADE LOSS RESULTING FROM EFFEC OR DIVIDING LENGTHS WILL CAUSE FOR REJECT

NOTCH OR DRILL JOIST'S, BEAMS OR LOAD BEARING STUDS ONLY AS INDICATED ON DRAWINGS ANY OTHER ALTERATION REQUIRES PRIOR APPROVAL OF THE STRUCTURAL ENGINEER THROUGH THE ARCHITECT.

GLU LAM BEAMS: WEST COAST DOUGLAS FIR WITH F(B)=2400 PSI (24F-V3) STRESS GRADE (24-V8) FOR CANTILEVERS. FABRICATION AND HANDLING PER (LATEST A.I.T.C. STANDARDS. WATERPROOF GLUE. BEARS TO BEAM A.I.T.C. STAMPS AND CERTIFICATES. CAMBER =L/300 WHERE L=SPAN IN INCHES. U.N.O.

SAWN LUMBER: WEST COAST DOUGLAS FIR - LARCH, SURFACED DRY: STUDS..

- JOISTS 2" TO 4" WIDE..
- BEAMS 6X AND LARGER.
- POSTS 4X4 AND LARGER BLOCKING, SILLS, PLATES..

PEELED LOGS - SOUTHERN PINE OR SPRUCE PINE - FIR #2 OR BETTER

SOLE PLATE OF ALL WALLS SHALL BE PRESSURE TREATED.

PLYWOOD: APA GRADED OR OTHER GRADING AGENCY PRIOR TO APPROVED BY THE ARCHITECT. C-D W/ EXTERIOR GLUE. PLYWOOD, OSB, AND/OR WAFER BOARD SHALL CONFORM WITH N.E.R.-108. 

- ROOF.
- WALLS (TYPICAL) U.N.O... FLOOR...

PLYWOOD, O.S.B., AND WAFER BOARD SHALL CONFORM TO N.E.R.-108. LAY UP ROOF PLYWOOD OR OSB WITH FACE GRAIN PERPENDICULAR TO SUPPORTS. MINIMUM 2-SPAN CONTINUOUS. STAGGER JOINTS. PROVIDE WD. CLIPS (SIMPSON PSC) AT ALL UNBLOCKED EDGES. LAY UP WALL PLYWOOD WITH FACE GRAIN PARALLEL TO SUPPORTS.

CONNECTIONS: ALL FRAMED CONNECTIONS SHALL BE MADE W/ I.C.C. APPROVED FRAMING ANCHORS EACH SIDE OR APPROVED JOISTS HANGERS, BY SIMPSON, KC METALS OR ARCHRIB. ANY HANGERS USED SHALL HAVE I.C.C. CAPACITIES EQUAL TO OR GREATER THAN THE SIMPSON HANGER CALLED OUT. FOR NAILING SCHEDULE SEE TABLE R602.3(1) OF 2018 INTERNATIONAL RESIDENTIAL CODE. FIELD DRILL ALL HOLES FOR NAILS LARGER THAN 20 d.

NAIL ROOF PLYWOOD WITH 10d COMMON NAILS AT 6" O.C. AT ALL SUPPORTED EDGES AND BOUNDARIES AND AT 12" AT INTERMEDIATE SUPPORTS. U.N.O. (SEE PLANS FOR EXCEPTIONS).

NAIL WALL PLYWOOD SHEATHING AS PER DRAWINGS. MINIMUM NAILING, 8d NAILS @6" O.C. PANEL EDGES AND BOUNDARIES AND 12" O.C. INTERMEDIATE SUPPORTS. (SEE PLANS FOR EXCEPTIONS).

NAIL FLOOR PLYWOOD WITH 10d SCREW NAILS AT 6" O.C. AT ALL SUPPORTED EDGES AND INTERMEDIATE SUPPORTS. GLUE PLYWOOD TO FLOOR TRUSS.

WOOD TRUSSES: FABRICATOR SHALL BE RESPONSIBLE FOR DESIGN USING THE FOLLOWING LOADS:

- MECHANICAL EQUIPMENT SEE MECHANICAL DRAWINGS.

A.I.T.C. STANDARDS APPLY PRIOR TO MANUFACTURING TRUSSES. FABRICATOR SHALL SUBMIT DESIGN CALCULATIONS AND SHOP DWGS, SEALED AND DATED WITHIN LATEST CITY ADOPTED I.R.C BY ARIZONA REGISTERED ENGINEER TO THE BUILDING DEPARTMENT AND THE ENGINEER FOR REVIEW INCLUDING WOOD SPECIFICATIONS. ALL PERMANENT AND TEMPORARY BRACING AND FASTENING AT BEARING SHALL BE PROVIDED BY TRUSS MANUFACTURE. TRUSSES SHALL CONFORM TO I.B.C. R802.10.

#### STRUCTURAL NOTES

- NOTED OTHERWISE
- CUTS. REFERENCES OR TITLES. VERIFY ALL DIMENSIONS WITH ARCHITECTURAL DRAWINGS.
- CONTRACTOR SHALL VERIFY IN FIELD ALL EXISTING CONDITIONS SHOWN ON DRAWINGS.
- TO BE 5000 PSI.
- PRIOR TO CONSTRUCTION.
- OUT THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENT

#### MASONRY MORTAL AND GROUT

- COMPLIANCE WITH MASONRY INSTITUTE OF ARIZONA CERTIFIED BLOCK PROGRAM.
- AT 48" O.C. MAX. U.N.O.
- A.C. 1 #5 BAR @48" O.C. ELSEWHERE UNLESS NOTED OTHERWISE.
- IN HORIZONTAL JOINTS (LAP 8" MINIMUM).
- ARRANGEMENT AND BENDING OF BARS AS PER A.C.I. DETAILING MANUAL B P.S.I. (AT 28 DAY)
- C.B. 2 PARTS PER GRAVEL MAY BE ADDED TO (C.A.) ABOVE.

 DFL -3
 DFL - 2
 DFL - 2
 DFL - 1
HF

• • •	 	
		3/8 <sup>24</sup>
•••	 	$\cdots$
	 	3/4", <del>48</del> T&G

 LIVE LOADS: EACH ACTS INDEPENDENTLY ROOF, 20 PSF - 7 DAY DURATION - HORIZONTAL PROJECTION AT BUILT-UP ROOF. (SEE ROOF PLAN FOR DRIFT) 16 PSF AT TILE ROOF. DEAD LOADS (INCLUDING WT. OF TRUSS): 15 PSF AT BUILT-UP ROOF 24 PSF AT TILE ROOF.

A. EXPANSION BOLTS SHALL BE SHALL BE TRUBOLTS BY RAMSET AS PER I.C.C. OR APPROVED ALTERNATE WITH ALLOWABLE VALUES EQUAL TO OR EXCEEDING THOSE FOR TRUBOLTS. EMBED 3-3/8" MINIMUM FOR  $\frac{3}{4}$ " DIAMETER BOLTS IN CONCRETE. EMBED 5" GROUTED MASONRY. UNLESS

B. UNLESS OTHERWISE NOTED. DETAILS ON STRUCTURAL DRAWINGS ARE TYP. AS INDICATED BY

DRYPACK SHALL BE ONE PART CEMENT AND 2-1/2 PARTS SAND W/ JUST ENOUGH WATER TO HYDRATE CEMENT AND FORM A BALL SHOWING MOISTURE ON THE SURFACE WHEN SQUEEZED. IT SHALL BE RAMMED IN TIGHT TO MAXIMUM DENSITY ATTAINABLE MINIMUM 28 DAY STRAIGHT

F. IN LIEU OF DRYPACK, GROUT SHALL BE NON- SHRINK, NON-METALLIC: U.S. GROUT CORP., FIVE STAR ASTM C-827, C-191 AND C-109, OR PRIOR APPROVED EQUAL MIXED AND INSTALLED PER MANUFACTURER'S RECOMMENDATION. MIN. COMPRESSIVE STRENGTH 5000 PSI IN DAYS. PROVIDE ALL TEMPORARY BRACING IN, SHORING, GUYING OR OTHER MEANS TO AVOID EXCESSIVE STRESSES AND TO HOLD STRUCTURAL ELEMENTS IN PLACE DURING CONSTRUCTION. ESTABLISH AND VERIFY ALL OPENINGS AND INSERTS FOR MECHANICAL. ELECTRICAL AND PLUMBING WITH APPROPRIATE TRADES, DRAWINGS, AND SUBCONTRACTOR

G. THE STRUCTURAL ENGINEER SHALL NOT HAVE CONTROL OR CHARGE OF, AND SHALL NOT BE RESPONSIBLE FOR, CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES, FOR SAFETY PRECAUTION AND PROGRAMS IN CONNECTION WITH THE WORK, FOR THE ACTS OR OMISSIONS OF THE CONTRACTOR, SUBCONTRACTOR OR ANY OTHER PERSONS PERFORMING ANY OF THE WORK OR FOR THE FAILURE OF ANY OF THEM TO CARRY

A. CONCRETE MASONRY UNITS MUST BE PRODUCED BY MANUFACTURE THAT IS CURRENT A.A. BLOCK UNITS, GRADE N-1 RUNNING BOND MASONRY STRENGTH = 1,500 PSI. MORTAR TYPE S, 1,800 PSI. GROUT 2,000 PSI. MECHANICALLY VIBRATE GROUT IN VERTICAL SPACES IMMEDIATELY AFTER POURING AGAIN ABOUT 5 MINUTES LATER. MAXIMUM GROUT LIFT WITHOUT CLEANOUTS 48" STAY EACH END OF EACH VERTICAL REBAR USING WIRE AND LOOP TYPE TIES. MAXIMUM VERTICAL SPACING OF TIES. MAXIMUM VERTICAL SPACING OF TIES 96". NO. POZZOLANA WILL BE PERMITTED IN MORTAR OR OR GROUT. SEE ARCHITECTURAL

DRAWINGS FOR EXPANSION OR CONTROL JOINTS. LOCATE AT 30' MAXIMUM O.C. U.N.O., BUT NOT LESS THAN 24' FROM BEARING FROM A JAMB OF AN OPENING WIDER THAN 4'-0". A.B. VERTICAL REINFORCING, CONTINUOUS FULL HEIGHT AT CENTER OF WALL, AT ALL CORNERS, INTERSECTIONS, WALL ENDS, BEAM BEARINGS, JAMBS, EACH SIDE OF CONTROL JOINTS AND

A.D. PROVIDED STANDARD WEIGHT, 9 GRADE WIRE, LADDER TYPE JOINT REINFORCING AT 16' O.C.

C. GROUTING PROCEDURES MASONRY 4' LIFTS OR 8 LIFTS WITH CLEAN OUTS. GROUT: F'c = 2000

C.A. 1 PERT PORTLAND CEMENT TO  $2\frac{1}{4}$  = 3 PARTS SAND &  $\frac{1}{10}$  PARTS MAX. HYDRATED LIME.

NAILING SCHEDULE (IF	<u>RC TABLE R602.3(1)</u>	)

ROOF       SHALL BE SPACED 4" ON CENTER WHERE THE ULTIMATE DESIGN WIND SPEED IS 130 MPH OR GRATER BUT LESS THAN 140 MPH.         DESCRIPTION OF BUILDING ELEMENTS       NUMBER & TYPE OF FASTENER a,b,c       SPACING AND LOCATION         1. BLOCKING BETWEEN CEILING JOISTS OR RAFTERS 4-8d BOX or 3-8d COMMON TOENAIL 2. CEILING JOISTS TO TOP PLATE.       4-8d, 3-8d,3-10d, OR 3-3"       SPACING NOT TOENAIL 2. CEILING JOISTS TO TOP PLATE         2. CEILING JOISTS TO TOP PLATE       4-8d, 3-8d,3-10d, OR 3-3"       PER JOIST, TOE NAIL 2. CEILING JOISTS TO TOP PLATE       SHALL BE SPACED 4" ON CENTER WHERE THE ULTIMATE DESIGN WIND SPEED IS 130 MPH OR GRATER BUT LESS THAN 140 MPH.	ARQM LLC
1. BLOCKING BETWEEN CEILING JOISTS OR RAFTERS       4-8d BOX or 3-8d COMMON TOENAIL or 3-10d BOX or 3-3" NAILS PER JOIST, TOE NAIL         2. CEILING JOISTS TO TOP PLATE       4-8d, 3-8d, 3-10d, OR 3-3"	AKQM LLU
2. CEILING JOISTS TO TOP PLATE 4-8d, 3-8d, 3-10d, OR 3-3" FRAMING MEMBERS AND AT ALL ROOF PLANE PERIMETERS. BLOCKING OF ROOF OR FLOOR	
3. CEILING JOISTS NOT ATTACHED TO PARALLEL 4-10d BOX or 3-8d Common FACE NAIL SHEATHING PANEL EDGES PERPENDICULAR TO THE FRAMING MEMBERS SHALL NOT BE REQUIRED	
RAFTER, LAPS OVER PARTITIONS (SEE SECTION or 3-10d Box or 3-3"       EXCEPT AT INTERSECTIONS OF ADJACENT ROOF PLANES. FLOOR AND ROOF PERIMETER SHALL BE         R802.5.2 AND TABLE R802.5.2)       EXCEPT AT INTERSECTIONS OF ADJACENT ROOF PLANES. FLOOR AND ROOF PERIMETER SHALL BE         4. CEILING JOIST ATTACHED TO PARALLEL RAFTER (HEEL JOINT)(SEE SECTION R802.5.2 AND TABLE       FACE NAIL         I. RSRS-01 IS A ROOF SHEATHING RING SHANK NAIL MEETING THE SPECIFICATIONS IN ASTM F1667.       I. RSRS-01 IS A ROOF SHEATHING RING SHANK NAIL MEETING THE SPECIFICATIONS IN ASTM F1667.	n data, in these refer to as mation. others oproval C.
R802.5.2) 5 COLLAR TIE TO RAFTER FACE NAIL or 1-1/4" x 20 GA 4-10d BOX or 3-10d FACE NAIL 5 COLLAR TIE TO RAFTER FACE NAIL or 1-1/4" x 20 GA 4-10d BOX or 3-10d FACE NAIL	nation ined ould infor infor en ap M LL
RIDGE STRAP TO RAFTER       COMMON or 4-3" NAILS       EACH RAFTER         6       RAFTER OR ROOF TRUSS TO PLATE       3-16d BOX NAILS or 3-10d       2 TOF NAILS ON ONE	inforr conta hey c onl usec writt
COMMON NAILS or 4-10d SIDE AND 1 TOE HOLE AND SIDE AND SHEAR CONNECTORS SHALL BE ICC APPROVED NELSON KSM OR EQUAL.	ots, ots, i stails ago, i s emer emer t be ut a ut a
NALE ON OFFICINE       SIDE OF EACH       RAFTER OR TRUSS       A. ASTM A-615 GRADE 40 EXCEPT WHERE NOTED ON PLANS OR SEE BELOW	<i>conce</i> <i>and de</i> <i>drawir</i> <i>brand</i> <i>brand</i> <i>comple</i> <i>canno</i> <i>vithou</i> <i>signed</i>
7. ROOF RAFTERS TO RIDGE, VALLEY OR HIP RAFTERS       4-16d or 3-10d or 4-10d or 4-3"       TOE NAIL         0R ROOF RAFTER TO MINIMUM 2" RIDGE BEAM       4-3"       A.A. WIRE MESH	
3-16d or 2-16d or 3-10d or 3-3" B. LIMITED PRE A.W.S. SPEC. FOR WELD WITHOUT PREHEAT. C. ALL REINFORCING BARS DEFORMED EXCEPT #2 BARS WIRE MESH.	28/2
8. STUD TO STUD (NOT AT BRACED WALL PANELS)       16d COMMON       24" O.C. FACE NAIL	03/
9. STUD TO STUD AND ABUTTING STUDS AT 16d BOX OR 3" NAILS 12" O.C. FACE NAIL 10.A. CONCRETE PLACE AGAINST EARTH	
INTERSECTING WALL CORNERS (AT BRACED WALL 16d COMMON 16"O.C. FACE NAIL PANELS) D.C. ALL OTHER	
10.BUILT-UP HEADER (2" TO 2" HEADER WITH 1/2" SPACER)       16d COMMON       16" O.C. EACH EDGE FACE NAIL       F. MESH SPLICES: TYPICAL SPACING PLUS 2: (MIN 6") MEASURED BETWEEN CROSS-WIRES.         10.BUILT-UP HEADER (2" TO 2" HEADER WITH 1/2" SPACER)       16d COMMON       16" O.C. EACH EDGE FACE NAIL       F. MESH SPLICES: TYPICAL SPACING PLUS 2: (MIN 6") MEASURED BETWEEN CROSS-WIRES.	
16d BOX       12" O.C. EACH EDGE FACE NAIL       IN CONCRETE FOR GR 40.         16d BOX       12" O.C. EACH EDGE FACE NAIL       IN CONCRETE FOR GR 40.         16d BOX       12" O.C. EACH EDGE FACE NAIL       IN CONCRETE FOR GR 40.	
11.CONTINUOUS HEADER TO STUD       5-8d BOX or 4-8d COMMON TOE NAIL or 4-10d BOX       I.       REBAR SPACING GIVEN IS MAXIMUM ON CENTER AND ALL REBAR IS CONTINUOUS UNLESS OTHERWISE NOTED. PROVIDE BENT CORNER REBAR TO MATH AND LA WITH HORIZONTAL REBAR'S	
12. TOP PLATE TO TOP PLATE       16d COMMON       16" O.C. FACE NAIL         10d BOX or 3" NAILS       12" O.C. FACE NAIL    AT CORNERS AND INTERSECTIONS OF WALLS, BEAM AND FOOTINGS PER A.C.I. MANUAL. DOWEL ALL VERTICAL REBAR TO EMBEDMENT IN LOCATION BEFORE PLACING CONCRETE OR GROUT. IN	
13.DOUBLE TOP PLATE SPLICE 8-16d COMMON or 12-16d FACE NAIL ON EACH or 12-10d BOX or 12-3" SIDE OF END JOINT	
NAILS (MINIMUM 24"LAP	
EACH SIDE OF END	
JOINT)       14.BOTTOM PLATE TO JOIST, RIM JOIST, BAND JOIST OR     16d COMMON     16"O.C. FACE NAIL	
BLOCKING (NOT AT BRACED WALL PANELS)  16d BOX or 3" NAIL 12"O.C. FACE NAIL  A for POX or 2 for the inspection is to be provided for the frems listed below in Addition to the INSPECTION SCONDUCTED BY THE BUILDING JURISDICTION. "SPECIAL STRUCTURAL INSPECTION"  SHALL NOT BELIEVE THE OWNED OD THEIR ACENT FROM REQUESTING THE BUILDING HUBISDICTION.	
15.BOTTOM PLATE TO JOIST, RIM JOIST, BAND JOIST OR       3-16d BOX of 2-16d       3 EACH 16" O.C.         BLOCKING (AT BRACED WALL PANEL)       COMMON OR 4-3" NAILS       FACE NAIL	$\mathbb{E}^{\mathbb{Z}}$
2 EACH 16" O.C. INSPECTION IS REQUIRED PER CHAPTER 17 FOR THE FOLLOWING:	
4 EACH 16" O.C. STEEL CONSTRUCTION FACE NAIL 5. INSPECTION OF WELDING:	
16. TOP OR BOTTOM PLATE TO STUD       4-8d BOX or 3-16d BOX or 4-8d COMMON or 4-10d       TOE NAIL       A.STRUCTURAL STEEL:         4) PERIODIC INSPECTION OF SINGLE-PASS FILLET WELDS < 5/16".	
BOX or 4-3"NAILS       BOX or 2-16       END NAIL         BOX or 2-16       END NAIL       EXPANSION, EPOXY, AND ADHESIVE ANCHORS: DURING THE PLACEMENT OF ALL ANCHORS SHOWN ON	
COMMON or 3-10d BOX or 3-3" NAILS SHALL STRUCTURAL DRAWINGS. ADDITIONAL INSPECTIONS REQUIRED FOR REPAIR DETAILS SHALL BE STRUCTURAL DRAWINGS. ADDITIONAL INSPECTIONS REQUIRED FOR REPAIR DETAILS SHALL BE	
17. TOP PLATES, LAPS AT CORNERS AND INTERSECTIONS       3-10d BOX or 2-16d       FACE NAIL       A. INSPECTION OF HOLE DIAMETER AND DEPTH.         B. INSPECTION OF HOLE CLEANING WITH WIRE BRUSH AND COMPRESSED AIR.       B. INSPECTION OF HOLE CLEANING WITH WIRE BRUSH AND COMPRESSED AIR.	
18.1" BRACE TO EACH STUD AND PLATE       3-8d BOX or 2/8d COMMON FACE NAIL or 2-10d BOX or 2 STAPLES       C. INSPECTION OF ANCHOR INSTALLATION USING SPECIFIED PRODUCT AND MANUFACTURER'S RECOMMENDED INSTALLATION PROCEDURES.	
1-3/4" 19.1" x 6" SHEATING TO EACH BEARING 3/8d BOX or 2-8d COMMON FACE NAIL	
or 2-10d BOX or 2 STAPLES DUTIES AND RESPONSIBILITIES OF THE SPECIAL INSPECTOR: , 1"CROWN, 16GA ., 1-3/4"	
LONG       A. THE SPECIAL INSPECTOR SHALL OBSERVE THE WORK ASSIGNED TO BE CERTAIN IT CONFORMS TO         20.1" x 8" AND WIDER SHEATING TO EACH BEARING       3-8d BOX or 3-8d COMMON	L
or 3-10d BOX or 3 STAPLES , 1" CROWN, 16 GA., 1-3/4" B. THE SPECIAL INSPECTOR IS NOT AUTHORIZED TO APPROVE DEVIATIONS FROM THE DESIGN DRAWINGS OR SPECIFICATIONS, AND ALL DEVIATIONS MUST BE APPROVED BY THE STRUCTURAL	
LONG FACE NAIL ENGINEER OF RECORD PRIOR TO PROCEEDING WITH THE WORK. ALL REQUESTS FOR DEVIATIONS WIDER THAN 1"X 8" 4-8d SHALL BE INITIATED BY THE CONTRACTOR VIA WRITTEN REQUEST FOR INFORMATION (RFI).	0
BOX or 3-8d COMMON or 3-10d BOX or 4 STAPLES. C. THE SPECIAL INSPECTOR SHALL FURNISH INSPECTION REPORTS TO THE BUILDING OFFICIAL, AND TO THE ENGINEER OR ARCHITECT OF RECORD. ALL DISCREPANCIES SHALL BE BROUGHT TO THE	
1"CROWN 16 GA., 1-3/4"LONG I -3/4"LONG I -3/4"LONG	
FLOOR FLOOR 21 JOIST TO SILL TOP PLATE OR GIRDER 4-8d BOX or 3/8d COMMONITOE NAIL 50 CONTRACTOR SHALL PROVIDE THE SPECIAL INSPECTOR ACCESS TO ALL ITEMS REQUIRING 50 SPECIAL INSPECTION ACCESS SHALL BE PROVIDED BY IN-PLACE LADDERS, SCAFFOLDS, LIFTS	$0 \overline{>} 0$
OR 3-10d BOX OF 3-3" NAILS 22.RIM JOIST, BAND JOIST OR BLOCKING TO SILL OR TOP 8d BOX 4" O C. TOF NAIL 4" O C. TOF NA	З Ш С
PLATE (ROOF APPLICATION ALSO) 8d COMMON or 10d BOX 6" O.C. TOE NAIL or 3" NAILS Bd COMMON or 10d BOX 6" O.C. TOE NAIL COMPLETION OF THE ASSIGNED WORK THE ENGINEER OR ARCHITECT SHALL COMPLETE	цОю
23.1" x 6" SUBFLOOR OR LESS TO EACH JOIST ar 3-10 d BOX or 2 FACE NAIL br 3-10 d BOX or 2 FACE NAIL CONFORMANCE WITH THE APPROVED PLANS AND SPECIFICATIONS AND THE APPLICABLE	ωŤ
STAPLES, 1"CROWN, 16 GA 1-3/4"LONG	
FLOOR FLOOR 24.2" SUBFLOOR TO JOIST OR GIRDER 3-16d BOX or 2-16d COMMON BLIND AND FACE NAIL COMMON BLIND AND FACE NAIL FOR ADDITIONAL INFORMATION ON SPECIAL STRUCTURAL INSPECTIONS, CONTACT STRUCTURAL FOR ADDITIONAL INFORMATION ON SPECIAL STRUCTURAL INSPECTIONS, CONTACT STRUCTURAL FIGURE PRIOR TO START OF CONSTRUCTION	
25.2" PLANKS (PLANK & BEAM FLOOR & ROOF) 3-16d BOX or 2-16d COMMON AT EACH BEARING, FACE NAIL	
26.BAND OR RIM JOIST TO JOIST 3-16d COMMON END NAIL 4-10 BOX or 4-3" NAILS or 4-3" x 14	
GA. STAPLES, 7/16"CROWN	
2-INCH LUMBER LAYERS 20d COMMON or 0.C. AT TOP AND BOTTOM AND 0.C. AT TOP	
10d BOX or 3" NAILS 24" O.C. FACE NAIL AT TOP AND BOTTOM STAGGERED ON OPPOSITE	
SIDES.	
or3-10d BOX or 3-3" NAILS SPLICE	
20. LEDGER STRIP SUPPORTING       FIGU BOX OF 0 FOR         JOISTS OR RAFTERS       COMMON Or 4-10D BOX         OR 4-3" NAIL S       AT EACH JOIST OR RAFTER, FACE	
29. BRIDGING OR BLOCKING TO JOIST     2-10d BOX or 2-8d     EACH END, TOE NAIL	
COMMON (2-1/2"x 0.131" or 2-3" x	
0.131" NAILS	(023) 8533751 WA BY:
A. ALL INAILS ARE SWOUTH-CONVINION, DUA OF DEFORINED SHANKS EACEPT WHERE UTHERWISE STATED. NAILS USED FOR FRAMING AND SHEATHING CONNECTIONS SHALL HAVE MINIMUM AVERAGE RENDING VIELD STRENGTHS AS SHOWN: 20 kgi (551 MDg) FOR SHANK DIAMETER OF 0.100	Esly Villar
AVERAGE DEINDING TIELD STRENGT AS SHOWN: 60 KSI (301 MP2) FOR SHANK DIAMETER OF 0.192 INCH (COMMON NAIL), 90 ksi (640 MPa) FOR SHANK DIAMETERS LARGER THAN 0.142 INCH BUT NOT HARCER THAN 0.177 INCH. AND 100 ksi (690 MPs) FOR SHANK DIAMETERS OF 0.140 INCUISE OF 1.500	AROM. LIC
B. STAPLE ARE 16 GAGE WIRE AND HAVE A MINIMUM 7/16-INCH ON DIAMETER CROWN WIDTH. C. NAILS SHALL BE SPACED AT NOT MORE THAN 6 INCHES ON CENTER AT ALL SUPPORTS WHERE <b>AND CONSTRUCTED OF DECEMPENDENT</b>	`E:

SPANS ATE 48 INCHES OF GREATER.

D. FOUR-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(2). F. FOR WOOD STRUCTURAL PANEL ROOF SHEATHING ATTACHED TO GABLE AND ROOF FRAMING AND TO INTERMEDIATE SUPPORTS WITHIN 48" OF ROOF EDGES AND RIDGES. NAILS SHALL BE SPACED

STRUCTURAL CORRECTNESS

![](_page_11_Picture_113.jpeg)

SCALE:

SHEET:

PER PLAN

GSN

#### MECHANICAL SPECIFICATIONS

#### PART I - GENERAL

- Α. Scope Provide labor, material, equipment and incidentals necessary or required for the completion, testing, inspection and adjusting, to provide the mechanical systems operable and complete in all respects.
- B. Drawings and Specifications Examine and become familiar with all project drawings and specifications; and coordinate the mechanical work accordingly. Make reasonable modifications in the layout and installation as needed to prevent conflict with work of other trades and for proper execution of the work, without additional cost.
- C. Installation The entire mechanical installation shall be made in a neat. workmanship-like, finished and sage manner. Conceal all piping in finished areas, unless otherwise noted. The entire installation shall be subject to the Architect's approval
- Codes. Permits, and Fees D. The drawings and specifications take precedence when they are more stringent than codes, ordinances, standards and statutes. Codes, ordinances, standards and statutes take precedence where they are more stringent than the drawings and specifications. Secure and pay for permits, tests. Certificates of Inspection, and all other costs incidental to the work.
- E. Guarantees All work shall be guaranteed to be free from defects in material and workmanship for a period of one year from date of final acceptance of the work. Replace at no additional cost any such defects or the correction of defects.

PART II - PRODUCTS

- A. Air Distribution Materials and Equipment
- 1. Low pressure ductwork:
- a. Low pressure ductwork: Shall be G60 coated galvanized steel. Ductwork construction and installation including sheet metal gauges, reinforcement, joint sealing, air leakage and details not specifically shown on the drawings shall be in accordance with SMACNA Low Velocity Construction standards. Take off fittings shall be spin in type with quadrant damper.
- All longitudinal and transverse joints, seams an connections b. of supply and return ducts operating at a static pressure less than or equal to 2 inches w.g. (500 Pa) shall be securely fastened and sealed with welds, gaskets, mastics (adhesives) mastic-plus- embedded- frabic systems or tapes installed in accordance with the manufacturer's installations instructions.
- Flexible Duct: Shall be Thermaflex II type MK-E or 2. equivalent, for low pressure, factory fabricated material, with spiral wire support, mylar sheath, blanket insulation and vinyl jacket. Connectors to be U.L. listed and in compliance with NFPA 90-A. Install w/ minimum no. of bends w/ a min. radius of 1-1/2 times the duct dia. measured from the centerline, extend straight where possible.
- 3. Duct Insulation: All supply and return ductwork shall be insulated per IECC. Ductwork installed withing the Bldg. shall be R-6, ductwork installed outside of Bldg. shall be R-8. Provide fiberglass insulation blanket with foil skrimcraft vapor barrier. Installed per m'frs. instructions.
- Split System Heat Pump Unit: 4.
- Fan Coil Unit: Horizontal type complete with painted α. steel casing, filter rack and filters, aluminized heat exchanger, 3 speed direct drive blower, blower and motor, controls, relays and wiring for dual operation and all other standard features.
- Cooling coil: Single circuit coil for installation on fan coil unit with insulated and painted steel cabinet, condensate pan and drain outlet, copper coil tubing with aluminum fins, wiring, and piping.
- Condensing Unit: Air cooled type unit complete with c. painted, reversing valve galvanized steel cabinet, control box, condenser fans and motors, rubber mounted hermetic compressor (with 5 year warranty), copper tube/aluminum fin condenser coils, low ambient controls, high and low pressure controls, service valves and refrigerant connections, transformer, contractor, grounding lug. All units shall be constructed and tested in the factory. The units shall be furnished with a wall mounted, heating and cooling thermostat with heat-off-cool and fan on-automatic selectors. The unit capacities shall be as scheduled on the drawings. Carrier company equipment is indicated but comparable units by Trane, York and Lennox will be acceptable.
- B. Piping materials, Hangers and Insulation:
- 1. Condensate drain piping: to be type 'M' copper with wrought copper fittings and 95/5 (tin/lead) solder joints.

PART III - EXECUTION

- A. Provide all labor, materials, equipment and services to install a complete, operating and approved mechanical system including but not limited to the following:
- Coordination of mechanical systems installation with all other contract trades on site for openings, clearances, space, access to equipment, etc.
- 2. Shop drawing submittal approval required prior to purchase or work activity.
- Balancing and Adjusting: System start—up,balancing testing and adjusting of the affected portions of the mechanical system shall be the responsibility of the Mechanical Contractor. The system shall be balanced to within plus or minus 5% of the quantities listed.
- Provide a copy of a certified Air Balance to the City Inspector prior to the final of the Building or Tenant 4. Improvement. This report needs to be conducted by a third party company, which is certified by AABC or NEBB for the testing. The report shall demonstrate that the mechanical system will meet the design calculations as indicated on the mechanical plans by the Mechanical Engineer or the Architect of Record.

KITCHEN RANGE HOOD EXHAUST SHALL BE LIMITED TO 400 CUBIC FEET PER MINUTE (CFM) OR LESSER PER 2018 IRC, SECTION M1503.6.

CUBIC FEET PER MINUTE (CFM) IT SHALL BE PROVIDED WITH A MECHANICAL OR PASSIVELY MAKE-UP AIR AT A RATE APPROXIMATELY EQUAL TO THE EXHAUST AIR RATE OF THE RANGE HOOD SUCH MAKEUP AIR SYSTEMS SHALL BE EQUIPPED WITH NOT FEWER THAN ONE DAMPER COMPLYING WITH 2018 IRC, SECTION M1503.6.2.

DISCHARGED INTO THE SAME ROOM IN WHICH THE EXHAUST SYSTEM IS LOCATED OR INTO ROOMS OR DUCT SYSTEM THAT COMMUNICATE THROUGH ONE OR MORE PERMANENT OPENINGS WITH THE ROOM IN WHICH SUCH EXHAUST SYSTEM IS LOCATED, 2018 IRC, SECTION M1503.6.1.

![](_page_12_Figure_30.jpeg)

![](_page_13_Figure_0.jpeg)

![](_page_13_Picture_10.jpeg)

![](_page_13_Picture_11.jpeg)

![](_page_13_Picture_13.jpeg)

Digital Bath Fan Control SMART, AFFORDABLE, EFFICIENT VENTILATION CONTROL	N
Easy To Install – Installs in place of a normal switch.       Meets ASHRAE 62.2 Ventilation Standard – Required or recommended in most states and provinces for new construction or whenever a permit is required.	owns designs, mation data, tained in these could refer to nly as information. ed by others itten approval f Architect.
Simple Programming – Manually turn fan on/off or program to run at certain times of day for increased energy efficiency and convenience.	ARQM Architect concepts, infor and details cont drawings, they brands o complementary comnot be use without a wr signed by ARQM
Timer Option – Can run in timer mode up to 60 minutes in 5-minute increments.	Zate
Part Number         Product Description           HVC0001         Digital Bath Fan Control – Premier White ®           HVC0002         Digital Bath Fan Control – Biscuit           Digital Bath Fan Control – Biscuit         0.1         2.3         4.5         6.7         >7           < 1500	Revisions
In Canada: Honeywell Limited 35 Dynamic Drive Toronto, Ontario M1V 4Z9 www.customer.honeywell.com LIMITED WARRANTY 50-1331 GK November 2010 @ 2010 Honeywell International Inc.	est la
$\frac{  \mathbf{R}_{n}  ^{-1} \mathbf{R}_{n}  ^{-1} \mathbf{R}_{n}  ^{-1} \mathbf{R}_{n}  ^{-1}   ^{-1}     ^{-1}                                    $	2108 E Solano Dr PHOENIX AZ, 85016
CITY OF PHOENIX Planning and Development Department ustine Cornelius D4/12/2023 set of plans has been reviewed for PHOENIX STRUCTION CODE requirements prior to noce of Building Permit and shall be kept at the proof building Permit and shall be kept at the requirements prior to noce of Building Correction of errors in ans where such errors are subsequently found Teoca Design Solutions, CLCC THIS DOCUVENT CONTAINS DESIGN INFORVATION, AND CONCEPTS DATA WHICH ARE SOLE PROPERTY OF TDS, _LC. FIRM AND SHALL NOT BE JSED FCR ANY OTHER PURPOSE THAN ORIGINALLY INTENDED WITHOUT THE WRITTEN PERMISSION OF TDS, LLC. P.O. BOX 33245 DFT: _JC	CONTACT: (623) 853 3751 DRAWN BY: Esly Villar CHECKED BY: ARQM. Archtect DATE: SCALE:
IN VIOLATION OF ANY LAW OF OFCIMANCE. PHOENIX, AZ 85067 OFFICE: 602-384-1091 JOB NO: DSN: RC 210141 CHK: RC	PER PLAN SHEET: M2

![](_page_14_Figure_0.jpeg)

# MAX. FLOW RATES AND CONSUMPTION FOR PLUMBING<br/>FIXTURES AND FIXTURE FITTINGS (BASED ON IRC TABLE P2903.2)PLUMBING FIXTURE OR FIXTURE FITTINGMAX. FLOW RATELAVATORY FAUCET2.2 GALLONS PER MINUTE AT 60 PSISHOWER HEAD2.5 GALLONS PER MINUTE AT 80 PSISINK FAUCET2.2 GALLONS PER MINUTE AT 60 PSI

1.6 GALLONS PER FLUSHING CYCLE

KITCHEN GROUPLAVATORY FAUCETNOTE: A HAND HELD SHOWER SPRAY IS CONSIDERED TO BE SHOWER HEAD

WATER SUPF	PLY CALCULATION SUITE	E A AND SUITE B (BASED O	N IRC P2903.6)	
TYPED OF FIXTURES	NUMBER OF FIXTURES	FIXTURE UNIT VALUE	TOTAL FIXTURE UNITS	ARQM LLC
BATHTUB (WITH/WITHOUT OVERHEAD SHOWER)	1	X 1.4	1.4	
CLOTHES WASHER	1	X 1.4	1.4	s, data, fer to as ation. roval
FULL-BATH GROUP WITH BATHTUB (WITH OR WITHOUT SHOWER HEAD) OR SHOWER STALL	4	X 3.6	14.4	LC owns desigr information in they could re- only nentary inform be used by ot a written appl
IALF-BATH GROUP (WATER CLOSET AND LAVATORY)	2	X 2.6	5.2	ARQM L ARQM L concepts and deta drawing brands complen cannot l without signed k
IOSE BIBB (INCLUDE ONLY 2)	2	X 2.5	5.0	3/2023
ITCHEN GROUP DISHWASHER AND SINK /ITH OR WITHOUT GARBAGE ISPOSAL)	1	X 2.5	2.5	<i>⊡ate</i> 02/28 03/28
ITCHEN SINK	0	X 1.4	0.0	
AUNDRY GROUP (CLOTHES VASHER STANDPIPE AND AUNDRY TUB)	1	X 2.5	2.5	Revisions
	2	X 0.7	1.4	$\frac{1}{2}$
	v		29.9	
		MIN WATER METER SIZE:	3/4"	
DTE: PIPING TO BE SIZED PER IRC TABLE AP201.1 WIT	TH TOTAL DEVELOPED LENGTH SHOWN ABC	MIN WATER SUPPLY SIZE: DVE BASED ON PRESSURE RANGE OF 30 TO	1 <u>1</u> " 39 PSI	
CONSUMPTION WHICH AR WATER, SOLID OR WASTE AN EXTERIOR WALL, UNL SUCH PIPE FROM FREEZIN PIPING SUBJECT TO UI PROTECTED IN AN APPRO EACH HOSE BIBB SHALL H WATER HAMMER ARRESTO HORIZONTAL DRAINAGE P I.A. MIN. SLOPES OF PIP HORIZONTAL (1/4:12)(2 I.B. MIN. SLOPES OF PIP HORIZONTAL (1/4:12)(2 VATER PIPING OPPER PIPE FOR WATER PIP UBE L. EXCEPTIONS: TYPE ABOVE GROUND AS PER 2018 PEX PIPE MAY USED. VASTE PIPING. ALL WASTE PIPING WHICH ION-COMBUSTIBLE PIPING M CODES.	E CONNECTED TO PUBLI E PIPE SHALL BE INSTALL ESS WHERE NECESSAR NG. NDUE CORROSION, ER VED MANNER. AVE A BACKFLOW PREVE ORS ARE REQUIRED AT O IPING SLOPE (BASED ON ES WITH DIAMETER 2 2% SLOPE). PES WITH DIAMETER 3 1%SLOPE). ING SHALL HAVE A WEIG M COPPER TUBING MY IRC STANDARDS.	C WATER SYSTEM. ED OR PERMITTED OUTS Y, ADEQUATE PROVISIO COSION OR MECHANIC/ ENTTER INSTALLED. QUICK-CLOSING VALVES. P3005.3): 1/2" OR LESS: 1/4 UNIT OR GREATER: 1/8 UNIT OR GREATER: 1/8 UNIT ES GHT OF NOT LESS THAN T BE USED FOR WATER HOUR FIRE-RESTRICTIV ' IRC. APPLICABLE EDIT	SIDE OF A BUILDING OR IN N IN MADE TO PROTECT AL DAMAGE SHALL BE R 3228) VERTICAL IN 12 UNITS VERTICAL IN 12 UNITS VERTICAL IN 12 UNITS THAT OF COPPER WATER PIPING WHEN PIPING IS	85016 85016
NDIVIDUAL AND BRANCH AIR THE HORIZONTAL BRANCH DR BE INSTALLED A MINIMUM OF 6 VATER HEATER VATER HEATER HAVING NON-1	ADMITTANCE VALVES SH RAIN OF FIXTURES DRAIN 5" ABOVE INSULATION MA RIGID WATER CONNECTI	HALL BE LOCATED A MIN N BEING VENTED. AIR AD ATERIAL. ONS SHALL BE STRAPPE	D FOR SUPPORT.	2100 PF
VATER HEATER TO BE PRO VISCHARGE NO MORE THAN 6	UVIDED WITH TEMPER	ATURE AND PRESSURE ADE, PER 2803.6.1 OF THI	E RELIEF DRAIN SHALL EIRC.	
	LEGEN UGH THE ROOF (2"VTR)	ID		
CO CLEAN OUT — — — — PIPE VENT 1-1/ NOTE: PER P3005 CLEAN OUT E) = EXISTING	/2" AT JUNCTION OF SEWEF	R AND DRAINS		
WATER FIXTURE ARE EXISTING	<b>NOT</b> G JUST RELOCATED	E		
				CONTACT: (623) 853 3751 DRAWN BY: Esly Villar CHECKED BY: AROM. LLC

2	U	M	BI	Ν	G	Ρ	LA	$\Lambda$	J

SCALE:

SHEET:

PER PLAN

Ρ1

SCALE: NTS

![](_page_15_Figure_0.jpeg)

![](_page_16_Figure_0.jpeg)

				<u>†</u> '	
	OR WALL FRAMING SHALL BE 24				
B. MINIMU CONTIN	G WALLS SHAL BE 2x AT 16" O.C. UN M I KING STUD AND ONE TRIMMEN IUOUS BEARING TO FOUNDATION	O. R REQUIR FOR 2 1	ED AT ALL OPENINGS.	PROVIDE ER. POSS	ARQM LLC
TOP PL FLUSH I	RTING FLUSH BEAM OR G.T. SHALL ATE OF WALL. DOUBLE TOP PLATE BEAM OR G.T. UNLESS POST CAP IS F 2x TOP PLATE REQUIRED AT ALL BI	EXTEND T SHALL RU SPECIFIED FARING W	O UNDERSIDE OF BOTT UN CONTINUOUS OVER O OR UNO ON PLAN. ALLS	POST AT	
D. ROOF A	ND FLOOR FRAMING MEMBERS SHO TRUSSES SPACED @ 24" O.C. MAX. U	own on P Jno	PLANS INDICATE PREFAR	BRICATED	ss, data, fer to as ation. roval roval
E. ALIGN STUDS	(2) STUDS (MIN.) BENEATH ALL GI TOGETHER PER TYPICAL NAILING	RDER TRU SCHEDUL	JSSES AT BEARING W. _E. HIP GIRDERS W/ U	ALL. NAIL P TO 8'-0	design ation ned in nform by o by o ' LLC.
SETBAC BEARIN	CK AND UP TO 20'-0 SPAN MAY HA' G TO FOUNDATION FOR ALL BEAMS	VE (1) STU AND GIRE	JD, UNO. PROVIDE CON DER TRUSSES SUPPORT	ITINUOUS ED BY (2)	wrns ontain Iforma ontain iey co only i any ii used writter vritter
2x OR L F. FASTEN	ARGER POSTS. IERS SHALL BE PLACED NOT LESS 1	[han <sup>3</sup> / <sub>8</sub> " fr	OM PANELEDGES ANS	SHALL BE	LLC ( bts, ir sts, ir ngs, th st ement t be t by t by
FIRMLY FRAMIN	DRIVEN INTO FRAMING MEMBERS	3. PAŇEL 5 ILS LESS <sup>-</sup>	JOINT SHALL BE CENT THAN 24" WIDE SHALL	ERED ON BE USED.	4RQM concep and de brands comple comple cigneo signeo
PROVID	E <sup>1</sup> / <sub>8</sub> " GAP BETWEEN ROOF SHEATHIN	IG PANELS	5. 		
-THE SCHE	IER MATIC ROOF FRAMING LAYOUT SHO	OWN HERE	ON IS ONLY FOR A CON	CEPTUAL	<i>«</i> 8/202
LAYOUT. -TRUSS MA	NUFACTURE SHOULD FIELD VERIFY	ALL DIME	NSIONS.		02/2 03/2
-TRUSS M PROFESSIO	ANUFACTURE IS TO ONLY USE ONAL STRUCTURAL ROOF DESIGN.	THIS COI	NCEPTUAL PLAN FOR	HIS/HER	
-TRUSS MA AND BRAC	ANUFACTURE TO PROVIDE SHOP DI ING OF ALL MEMBERS TO THE CON	RAWINGS NTRACTOF	THAT INDICATE SIZE, L R/OWNER FOR APPROV	OCATION, AL PRIOR	
TO TRUSS -R301.4 DE	MANUFACTURES FABRICATION OF F AD LOAD. THE ACTUAL WEIGHTS O	ROOF SYS <sup>-</sup> PF MATERI	TEM. ALS AND CONSTRUCTIO	ON SHALL	sions
BE USED F FIXED SER	OR DETERMINING DEAD LOAD WITH VICE EQUIPMENT (HVAC).	CONSIDE	RATION FOR THE DEAD	LOAD OF	Reni
<b>NOTES</b>					
A. DOUBL					
B. ROOF C. MANUE	SHEATHING TO BE $\frac{32}{32}$ " MINIMUM RATE FACTURED TRUSSES 24" ON CENTER	ט דרגאס לי ח בטים ואיבי		<u>-</u> K.	IENTS
ROOF T	RUSS LOADS		ORMATION NOT SHOW.		WWO
TRUSS MA	NUFACTURED TO DESIGN FOR: D: 16 PSF (FLAT ROOF)				
DEAD LOAD	D: 21 PSF (PITCHED) 20 PSF				
				1	
	FLOOR TRUSS TYPE	FLOOR	RUSS VARIATIONS		
	FG1 18" DEEP FLOOR GIRDER	Α	THREE POINT BEARING		
	FG2 24" DEEP FLOOR GIRDER	B	FOUR POINT BEARING		
	FG3 22" DEEP FLOOR GIRDER				
	F1     IO DELL TEOOR       TRUSS AT 16" O.C.       24" DEEP FLOOR		BOTH ENDS		
	<b>F2</b> TRUSS AT 16" O.C. <b>F3</b> 2X8 JOIST AT 16"O.C.	F			
	<b>F4</b> 2X12 JOIST AT 16"O.C.	G			
	F5 12" DEEP FLOOR TRUSSES AT 16" O.C.	Η			
	F6 20" DEEP FLOOR TRUSSES AT 16" O.C.				
	F7 22" DEEP FLOOR TRUSSES AT 16" O.C.				l č < _l
	ROOF TRUSS TYPE		ADS		
	$\overline{(0,1)}$		S MANUFACTURED		SZ O
	GIRDER TRUSS 2 PLY MIN.	DL	O DESIGN FOR: 25 PSF		
	G-2 HIP GIRDER TRUSS GIRDER TRUSS 2 PLY MIN.	LL:	40 PSF	]	
	W/VERTICALS AT 16" O.C. MA	X. ROO	F TRUSS	1	0
	GIRDER TRUSS EXPOSED WOOD MEMBERS &		STUBBED AT		2
	CONNECTIONS PER LINDSA DRAWINGS.		ONE END		
	R-1 COMMON TRUSS 24" O.C.		BOTH ENDS		
	R-2 SCISSOR TRUSS AT 24" 0.C.		AT ONE END		
	R-3 PARALLEL CHORD TRUSS AT 24" O.C.		AT BOTH ENDS		
	HIP TRUSS 24" O.C.	E	BEARING		
	R-5 MONO TRUSS AT 24" O.C.	F	4-POINTS BEARING		
	A-6 JACK TRUSS AT 24" O.C.	G	BEARING		
	2X6 RAFTER AT 24" O.C.	<u>NC</u>	DTES		CONTACT:
	R-8 STRUCTURAL GABLE END WALL TRUSS	PLY1	2"PLYWOOD ROOF SHEATHING W/8d AT 6 O.C.		<b>६</b> (623) 853 3751 DRaш∩ RY•
	R-9 PARTIAL GABLE		U.N.O.		Esly Villar
I	R-10 PARTIAL SCISSOR	PLY2	<sup>3</sup> 4" T&G PLYWOOD FLOOR SHEATHING W/#8		CHECKED BY: AROM. LLC
	(R-11) 2X8 RAFTER AT 12" O.C.		SCREWSx2" LONG AT 6" O.C. EDGE AND 10" O.C.		DATE:
	R-12 2X12 RAFTER DF#2 AT		MEMBER		SCALE:
	24° 0.C.			1	SHEET: C7
Ι					

	WOOD STUD WALL SHE MATERIALS, ATTACHMENTS AND	EARWA values a	LL SCHEDUL Are per 2018 ibc	E
MARK	MATERIAL AND ATTACHMENTS	ALLOW. SHEAR PLF(1)	SILL PLATE ATTACHMENT FOUNDATIONS (4)(5)	AT UPPER FLOORS
	1/2" UNBLOCKED DRYWALL WITH 6d COOLER NAILS AT 7" O.C. EDGES AND FIELD.	100 HF /DF	1/2" A.B. AT 48" O.C. OR: SHOT PINS AT 16" O.C.	16d 12" O.C.
2	5/8" UNBLOCKED DRYWALL WITH 6d COOLER NAILS AT 7" O.C. EDGES AND FIELD.	115 HF/DF	1/2" A.B. AT 48" O.C. OR: SHOT PINS AT 16" O.C.	16d 12" O.C.
3	1/2" BLOCKED DRYWALL WITH 5d COOLER NAILS AT 7" O.C. EDGES AND FIELD OR: 1/2" UNBLOCKED DRYWALL WITH 5d COOLER NAILS AT 4" O.C. EDGES AND FIELD.	125 HF/DF	1/2" A.B. AT 48" O.C. OR: SHOT PINS AT 12" O.C.	16d 12" O.C.
4	5/8" BLOCKED DRYWALL WITH 6d COOLER NAILS AT 7" O.C. EDGES AND FIELD OR: 5/8" UNBLOCKED DRYWALL WITH 6d COOLER NAILS AT 4" O.C. EDGES AND FIELD.	145 HF/DF	1/2" A.B. AT 48" O.C. OR: SHOT PINS AT 8" O.C.	16d 12" O.C.
5	1/2" BLOCKED DRYWALL WITH 5d COOLER NAILS AT 4" O.C. EDGES AND FIELD.	150 HF/DF	1/2" A.B. AT 48" O.C. OR: SHOT PINS AT 8" O.C.	16d 12" O.C.
6	5/8" BLOCKED DRYWALL WITH 6d COOLER NAILS AT 4" O.C. EDGES AND FIELD.	175 HF/DF	1/2" A.B. AT 48" O.C. OR: SHOT PINS AT 8" O.C.	16d 12" O.C.
$\langle 7 \rangle$	3/8" BLOCKED APA "CDX" SHEATHING WITH 8d NAILS AT 6" O.C. AT EDGES AND 12" O.C. AT FIELD.	229 HF 260 DF	1/2" A.B. AT 32" O.C.	16d 8" O.C.
8	3/8" BLOCKED APA "CDX" SHEATHING WITH 8d NAILS AT 4" O.C. AT EDGES AND 12" O.C. AT FIELD.	352(3) HF 380(3) DF	1/2" A.B. AT 24" O.C.	16d 5" O.C.
9	3/8" BLOCKED APA "CDX" SHEATHING WITH 8d NAILS AT 3" O.C. AT EDGES AND 12" O.C. AT FIELD.	451(3) HF 490(3) DF	1/2" A.B. AT 16" O.C.	16d 4" O.C.
(10)	3/8" BLOCKED APA "CDX" SHEATHING WITH 8d NAILS AT 2" O.C. AT EDGES AND 12" O.C. AT FIELD.	598(2) HF 640(2) DF	1/2" A.B. AT 12" O.C.	16d 3" 0.C.
$\langle 11 \rangle$	1/2" BLOCKED APA "CDX" SHEATHING WITH 8d NAILS AT 2" O.C. AT EDGES AND 12" O.C. AT FIELD.	713(2) HF 770(2) DF	1/2" A.B. AT 12" O.C.	16d 2" O.C.
(12)	7/8"3 COAT STUCCO WITH #16 GAGE STAPLES WITH 7/8" LEGS AT 6"0.C.	180 HF/DF	1/2" A.B. AT 48" O.C. OR: SHOT PINS AT 8" O.C.	16d 10" O.C.

HOLDO	WN S	CHEDULE			EGEND	
MARK TYPE	ANCHOR BOLT					
		TYPE E		$\overline{7}$	DENOTES SHEARWALL	
R STHD8		TYPE E		$\left  \right\rangle$	TYPE-SEE SCHEDULE	
C STHD10		TYPE E				
D STHD14		TYPE F				
E HTT4	SSTB16	5/8" ATR – 6" EMBEDMENT *		$\wedge$	DENOTES HOLDDOWN	
F HDQ8-SDS3	SSTB28	7/8" ATR – 8" EMBEDMENT *		A	TYPE-SEE SCHEDULE	
G HDQ11-SDS2.5	SB1X30	1" ATR - 8" EMBEDMENT *		<u>\</u>		
H HDQ14-SDS2.5	SB1X30	1" ATR – 8" EMBEDMENT **				
J MST48	STRAP FOR 2ND	FLOOR TO 1ST FLOOR				
K MST60	STRAP FOR 2ND	FLOOR TO 1ST FLOOR				
L MSTC66	STRAP FOR 2ND	FLOOR TO 1ST FLOOR				
			1			
			8			
	I					
				6		
	l					
	$\langle 7 \rangle$					
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						<b>(7</b> )
	I		<b>7</b>			
	$\overline{}$					

NOTES:

(1) VALUES ARE FOR SHEATHING ON ONE SIDE OF HEM FIR OR DOUG FIR FRAMED WALLS. DOUBLE VALUE IF SHEATHING ON BOTH SIDES. 1/2" UNBLOCKED DRYWALL WITH 6d COOLER NAILS AT 7" O.C. FOR SHEAR WALLS WITH SHEATHING APPLIED TO BOTH SIDES, SILL PLATE ATTACHMENT EDGES AND FIELD. SPACING SHALL BE HALF THE SPACING SHOWN.

(2) FRAMING AT ADJOINING PANEL EDGES SHALL BE 3" NOMINAL OR WIDER AND NAILS SHALL BE STAGGERED.

(3) WHERE SHEATHING IS APPLIED ON BOTH FACES OF WALL AND NAIL SPACING IS LESS THAN 6" O.C., PANEL JOINTS SHALL BE OFFSET TO FALL ON DIFFERENT FRAMING MEMBERS, OR FRAMING SHALL BE 3 INCH NOMINAL OR THICKER AND NAILS ON EACH SIDE SHALL BE STAGGERED.

(4) SHOT PIN OPTION NOT ALLOWABLE AT EXTERIOR WALLS. SHOT PINS SHALL BE HILTI X-DNI INSTALLED WITH WASHERS AND 1" EMBEDMENT PER ICC ERS 1663.

(5) CAST-IN-PLACE ANCHOR BOLTS MAY BE REPLACED WITH 1/2" DIA EXPANSION BOLTS AT SAME SPACING AT INTERIOR WALLS ONLY. EXPANSION BOLTS SHALL BE ITW RAMSET/RED HEAD TRUBOLT WEDGE ANCHOR WITH 6" EMBED - ICC ERS 2427
 (6) STAGGER NAILS IN SILL PLATE.

SHEAR WALL NOTES:

A. STUD SPACING IN ALL SHEAR WALLS SHALL NOT EXCEED 16" O.C.

B. ALL PANEL EDGES SHALL BE BACKED WITH MINIMUM 2 INCH NOMINAL FRAMING.

C. BLOCKING SHALL BE PROVIDED NEAR MID-HEIGHT OF WALL AT SHEATHING JOINT.

D. SPACING APPLIES TO NAILING AT ALL STUDS, TOP AND BOTTOM PLATES AND BLOCKING.

E. SEE ARCHITECTURAL DRAWINGS FOR ADDITIONAL. (FINISHED SURFACE) WALL COVERINGS NOT NOTED.

F. TYPE X DRYWALL SHALL BE PROVIDED WHERE INDICATED ON ARCHITECTURAL DRAWINGS.

G. FOR EXTERIOR SHEAR WALLS USING DRYWALL, USE EXTERIOR TYPE DRYWALL PER ARCHITECTURAL DRAWINGS

H. AT CONTRACTORS OPTION – OSB MAY BE SUBSTITUTED FOR CDX. OSB MUST MEET OR EXCEED SPECIFICATION FOR CDX.

![](_page_17_Figure_17.jpeg)

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![](_page_18_Figure_0.jpeg)

ARQM LLC
/2023 /2023 <i>ARQM LLC owns designs,</i> concepts, information data, and details contained in these drawings, they could refer to brands only as complementary information. complementary information. cannot be used by others without a written approval signed by ARQM LLC.
<i><i><i>⊙dte</i> 02/28, 03/28, 00/28, 00/28, 00/28, 00/28, 00/28, 00/28, 00/28, 00/2</i></i>
Revisions
Sa A CITY COMMENTS A CITY COMMENTS
2108 E Solano Dr PHOENIX AZ, 85016
CONTACT: (623) 853 3751 DRAWN BY: Esly Villar
CHECKED BY: AROM. LLC
17 M I E i
SCALE: PER PLAN

# FOUNDATION DETAILS

![](_page_19_Figure_0.jpeg)

![](_page_20_Figure_0.jpeg)

![](_page_20_Figure_1.jpeg)

SHEET:

SD2.1