BUILDING INFORMATION:

BOXABL CASITA B

PREFABRICATED MODULAR DWELLING UNITS

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ARIZONA 20' CASITA B

NOTES:

MODEL:
BELIEF COMPLY WITH THE CODES AND ORDINANC FOR PREFABRICATED DWELLING UNITS.
AND THAT TO THE BEST OF MY KNOWLEDGE AND

PAGE LAYOUT

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REVISION:

ISSUE DATE: 12-02-22

SHEET: **G1.0**

Ja Filesho Moduleto I.O_covel alleet.uwg Goellidel Oz, zozz	 THESE UNITS ARE PREFABRICATED FACTORY BUILT ACCESSORY DWELLING UNITS. PLUMBING, ELECTRICAL, & HVAC ARE PRE-INSTALLED, AND ARE CONNECTED TO INCOMING UTILITIES WHEN THE UNIT IS SET ON SITE. FOUNDATION SYSTEM IS PERMITTED & INSTALLED SEPARATELY BY THE UNIT OWNER. UNITS ARE SET ON SITE, LOWER AND UPPER UNITS ARE CONNECTED DURING THE SITE INSTALLATION PHASE STAIRS, PLATFORMS & WALKWAYS TO BE INSTALLED BY OTHERS THIS SET IS INTENDED TO BE USED IN CONJUNCTION WITH THE MANUFACTURERS PANEL DRAWINGS AND STRUCTURAL DRAWINGS. 	ADDRESS: ADDRESS: CITY: COUNTY: STATE: BUILDING CODE: BUILDING CODE: BUILDING CODE: 2021 INTERNATIONAL BUILDING CODE MECHANICAL CODE: 2018 INTERNATIONAL MECHANICAL CODE ELECTRICAL CODE: PLUMBING CODE: PLUMBING CODE: PREPREVENTION CODE: 2018 INTERNATIONAL PLUMBING CODE PIRE PREVENTION CODE: 2018 INTERNATIONAL FIRE CODE
2000	PROJECT CONTACTS	BUILDING DATA
ogiali in prijevije i i plates voj.	OWNER: BOXABL SEVAN DESIGN SOLUTIONS P.C. 5345 EAST NORTH BELT ROAD LAS VEGAS, NV 89115 SUITE 850 DOWNERS GROVE, ILLINOIS 630-733-9647 JOE DEFILIPPIS	OCCUPANCY CLASSIFICATION: RESIDENTIAL GROUP R-1 TOTAL BUILDING AREA: 324 SQFT BUILDING HEIGHT: 10'-9" CONSTRUCTION TYPE: III-B

THE KNOWLEDGE AND CONSENT OF THE ARCHITECT, IN CONTRADICTION TO THE WORK PRODUCT, OR THE RECOMMENDATIONS OF THE ARCHITECT SHALL BECOME THE RESPONSIBILITY OF THE PARTIES RESPONSIBLE FOR TAKING SUCH ACTION. THESE DRAWINGS WERE PREPARED BASED ON THE ASSUMPTION THAT ANY CONTRACTOR, SUBCONTRACTOR, SUPPLIER, OR VENDOR INVOLVED IN THE CONSTRUCTION OF THE WORK DESCRIBED HEREIN HAS EXPERIENCE IN THEIR RESPECTIVE AREAS OR DISCIPLINES THAT MAKE UP THE SCOPE OF THE PROJECT.

GENERAL NOTES

THE INFORMATION SHOWN ON THESE DRAWINGS IS BASED ON THE BEST INFORMATION AVAILABLE AT THE TIME TO

CONTRACTORS MUST VISIT THE SITE AND DETERMINE ALL FIELD CONDITIONS. ALL DIMENSIONS SHALL BE VERIFIED AND

THE ARCHITECT AND HIS CONSULTANTS DO NOT WARRANTY OR GUARANTEE THE COMPLETENESS OF THE WORK BEYOND A REASONABLE DILIGENCE. IF ANY ERRORS, DISCREPANCIES, OR OMISSIONS ARE FOUND TO EXIST IN THE

WHATEVER STEPS NECESSARY TO RESOLVE THE ISSUE. FAILURE TO PROMPTLY NOTIFY THE ARCHITECT OF SUCH

WORK PRODUCT, THE ARCHITECT SHALL BE PROMPTLY NOTIFIED SO THAT HE MAY HAVE THE OPPORTUNITY TO TAKE

CONDITIONS, SHALL ABSOLVE THE ARCHITECT FROM ANY RESPONSIBILITY OF SUCH FAILURE. ACTION TAKEN WITHOUT

THE ARCHITECT. THIS INFORMATION CANNOT BE GUARANTEED TO SHOW EVERY EXISTING CONDITION. EACH

CONTRACTOR ON THIS PROJECT SHALL READ AND STUDY THE TOTAL SET OF DRAWINGS FOR ALL WORK.

ALL DISCREPANCIES SHALL BE REPORTED TO THE ARCHITECT PRIOR TO BID SUBMISSION

IT IS NOT THE INTENT OF THESE DRAWINGS TO SHOW EVERY DETAIL OR NUANCE THAT MAY BE REQUIRED TO CONSTRUCT THE WORK SHOWN. IN ADDITION, IT IS ASSUMED THAT EACH CONTRACTOR IS FAMILIAR WITH EACH PORTION OF THEIR WORK, WHETHER THEY ARE CONSTRUCTING OR ASSEMBLING THE REQUIRED COMPONENTS, OR

FOLLOWING MANUFACTURER'S GUIDELINES, RECOMMENDATIONS, OR SPECIFICATIONS FOR A PARTICULAR PORTION OF THEIR WORK.

ANY WORK THAT INVOLVES UTILIZING A PRE-MANUFACTURED COMPONENT, OR OTHER FIELD ASSEMBLED OR FIELD APPLIED SYSTEM IS THE SOLE RESPONSIBILITY OF THE ENTITY ENGAGED TO PERFORM THAT WORK. ANY ERRORS, OMISSIONS, DEFECTS, OR DAMAGES CAUSED BY ANY DEVIATION FROM THE MANUFACTURER'S GUIDELINES, RECOMMENDATIONS, OR SPECIFICATIONS, SHALL BE THE SOLE RESPONSIBILITY OF THE ENTITY RESPONSIBLE FOR SUCH ACTION, AND ANY REQUIRED REMEDIES, INCLUDING REPLACEMENT SHALL BE THE RESPONSIBILITY OF THE PARTY RESPONSIBLE FOR THE ERROR, OR OMISSION, THAT CAUSED THE DAMAGE OR DEFECT.

ELECTRICAL ENGINEER DICKERSON ENGINEERING, INC 3343 NORTH RIDGE ARLINGTON HEIGHTS, IL 60004

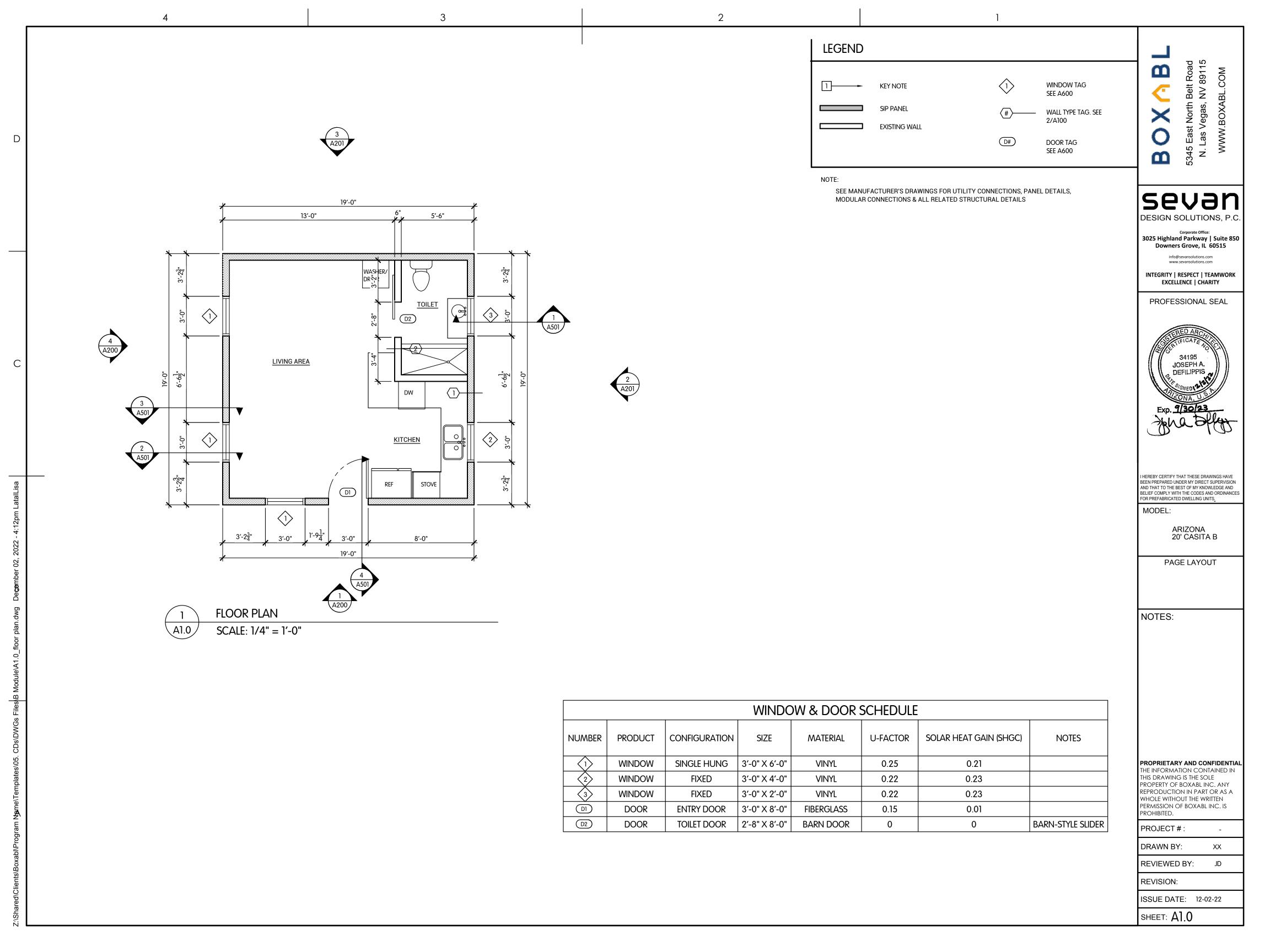
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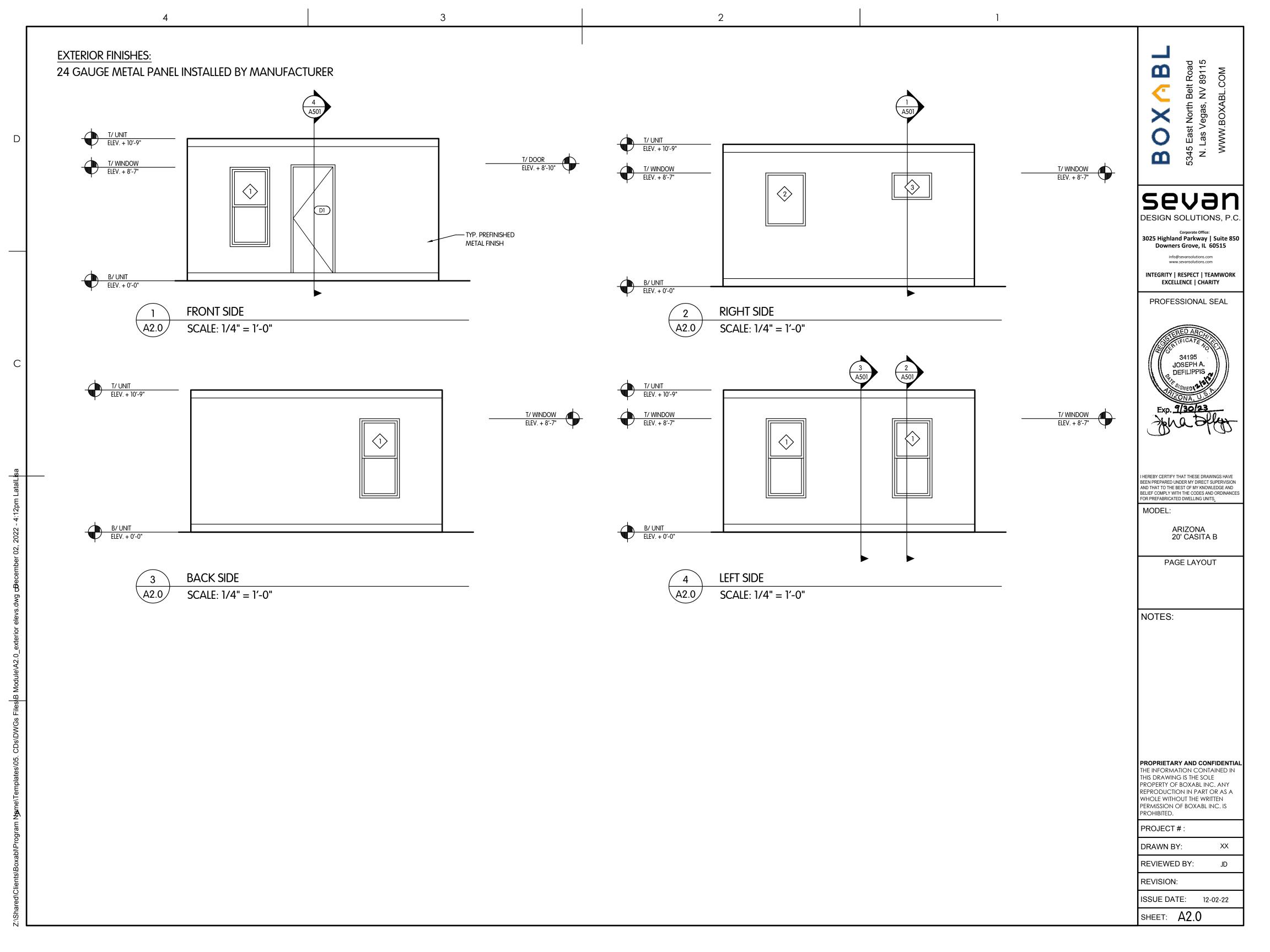
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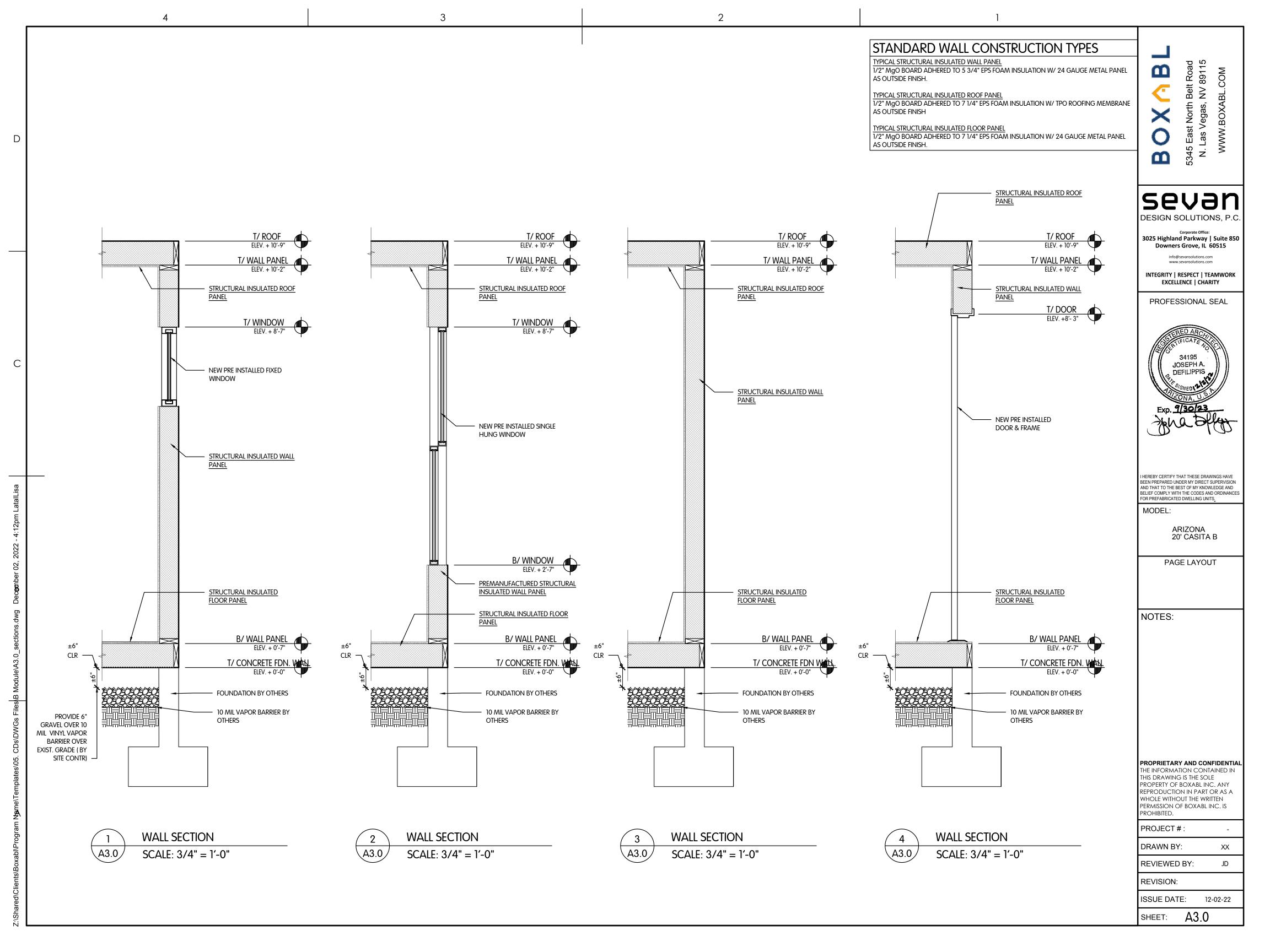
847-966-0290 DAVIS DICKERSON MECHANICAL & PLUMBING ENGINEER WCW ENGINEERS, INC.

760 CREEL DRIVE WOOD DALE, IL 60191 630-595-8800 JOSEPH G. THOMAS

SCOPE OF WORK







GENERAL

- 1. MECHANICAL SYSTEMS SHALL BE INSTALL IN ACCORDANCE WITH ALL APPLICABLE
- 2. DRAWINGS FOR MECHANICAL WORK ARE DIAGRAMMATIC, SHOWING THE GENERAL LOCATION, TYPE, LAYOUT AND EQUIPMENT REQUIRED. THE DRAWINGS SHALL NOT BE SCALED FOR EXACT MEASUREMENTS. REFER TO MANUFACTURERS STANDARD INSTALLATION DRAWINGS FOR EQUIPMENT CONNECTIONS AND INSTALLATION REQUIREMENTS AS REQUIRED. FURNISH AND INSTALL DUCTWORK, CONNECTIONS ACCESSORIES, OFFSETS AND MATERIALS NECESSARY TO FACILITATE THE SYSTEMS FUNCTIONING AS INDICATED BY THE DESIGN AND THE EQUIPMENT INDICATED. THE WORK SHALL BE IN ACCORDANCE WITH LOCAL CODES AND ORDINANCES AND SUBJECT TO INSPECTION.
- 3. THE MECHANICAL SYSTEMS SHALL BE COMPLETE WITH ALL NECESSARY APPURTENANCES FOR A COMPLETE OPERATING SYSTEM.
- 4. THE CONTRACTOR SHALL WARRANTEE ALL MATERIAL AND GUARANTEE ALL WORKMANSHIP FOR ONE YEAR FROM SUBSTANTIAL COMPLETION.

BASIC MATERIALS AND METHODS

1. MATERIALS SHALL BEAR UNDERWRITERS LABEL WHERE SUCH STANDARDS HAVE BEEN ESTABLISHED AND LISTED BY UNDERWRITER'S LABORATORIES, INC. MATERIALS, EQUIPMENT AND APPLIANCES SHALL CONFORM TO THE LATEST STANDARDS OF:

-AIR MOVING AND CONDITIONING ASSOCIATIONS, INC. SMACNA -SHEET METAL AND AIR CONDITIONING CONTRACTOR NATIONAL ASSOCIATION, INC. ASHRAE -AMERICAN SOCIETY OF HEATING, REFRIGERATION AND AIR CONDITIONING ENGINEERS ASME -AMERICAN SOCIETY OF MECHANICAL ENGINEERS ASTM -AMERICAN SOCIETY FOR TESTING MATERIALS -NATIONAL ELECTRICAL MANUFACTURER'S ASSOCIATION NEMA ARI -AIR CONDITIONING AND REFRIGERATION INSTITUTE

-AMERICAN NATIONAL STANDARDS INSTITUTE

ANSI COORDINATION

- 1. COORDINATE WITH GENERAL CONTRACTOR FOR ALLOWABLE DAYS OF WEEK AND TIMES OF DAY FOR SYSTEMS SHUT DOWNS AS REQUIRED FOR THE CONSTRUCTION WORK.
- 2. THE MECHANICAL CONTRACTOR SHALL COORDINATE DUCTWORK INSTALLATION WITH ARCHITECTS/OWNERS REPRESENTATIVE IN FIELD AND OTHER TRADES.
- 3. THE MECHANICAL CONTRACTOR SHALL COORDINATE VOLTAGE OF ALL EQUIPMENT WITH ELECTRICAL PRIOR TO ORDERING EQUIPMENT.

INSTALLATION

- 1. CORE-DRILL OR SAW-CUT FLOOR, WALL, ROOF, ETC. AS REQUIRED FOR PIPING OR DUCTWORK AND FIRE-STOP OPENING AROUND PIPE OR DUCTWORK. VERIFY LOCATION OF STRUCTURAL BEAMS, JOISTS, ETC. BEFORE DRILLING OR CUTTING. NOTIFY ARCHITECT OF ANY DISCREPANCIES.
- 2. WHEREVER FOUNDATION WALLS, OUTSIDE WALLS, ROOFS, ETC. ARE CUT FOR INSTALLATION OF SYSTEMS, THEY SHALL BE PATCHED TO MATCH EXISTING CONSTRUCTION AND SEALED WEATHER-TIGHT. WORK SHALL BE PERFORMED BY CRAFTSMEN SKILLED IN THEIR RESPECTIVE TRADES.
- 3. ALL DUCTWORK AND PIPING SHALL BE ROUTED ABOVE THE SUSPENDED CEILING SPACE, UNLESS OTHERWISE NOTED ON PLANS.
- 4. ALL DUCTWORK AND PIPING THAT IS EXPOSED TO VIEW SHALL BE ROUTED AS HIGH AS POSSIBLE AND TIGHT TO THE UNDERSIDE OF THE STRUCTURAL STEEL ABOVE.
- 5. ALL OUTSIDE AIR INTAKES SHALL BE A MINIMUM OF 10'-0" AWAY FROM EXHAUST DISCHARGE OPENINGS AND PLUMBING VENT STACKS.

INSULATION

- 1. DUCT LINER: PROVIDE DUCT LINER FOR DUCTWORK WHERE INDICATED. DUCT LINER SHALL MEET NFPA 90A FLAME SPREAD UNDER 25, SMOKE DEVELOPED UNDER 50.
- 2. DUCT INSULATION: PROVIDE FLEXIBLE INSULATION FOR DUCTWORK WHERE INDICATED. INSULATION SHALL BE FOIL REINFORCED KRAFT MEETING NFPA 90A, FLAME SPREAD UNDER 25, SMOKE DEVELOPED UNDER 50.
- 3. ALL SUPPLY, RETURN AND OUTSIDE AIR RECTANGULER/SQUARE DUCTWORK SHALL BE INSULATED WITH 1-1/2" THICK 3 PCF DUCT LINER. DUCT LINER SHALL BE FASTENED TO INSIDE OF DUCTWORK AS PER MANUFACTURE'S DIRECTIONS AND SMACNA "DUCT LINER APPLICATION STANDARD". SIZE OF DUCTS SHALL BE INCREASED FOR DUCT LINER INSULATION. SIZES SHOW ON PLAN ARE INSIDE FREE AREA. ALL SUPPLY, RETURN AND OUTSIDE AIR ROUND/OVAL DUCTWORK SHALL BE INSULATED WITH 2" THICK FLEXIBLE INSULATION, 1 PCF DENSITY FOIL REINFORCED KRAFT FACING. DUCT WRAPS SHALL BE FASTENED TO DUCTWORK AS PER MANUFACTURER'S DIRECTIONS. ROUND DIFFUSER BRANCHES SHALL BE INSULATED WITH 1" THICK FIBERGLASS SLEEVE WITH REINFORCED FOIL JACKET AND ALL JOINTS AND TERMINATIONS SEALED WITH 4" WIDE FOIL TAPE. ROUND/OVAL SUPPLY AND RETURN DUCTWORK EXPOSED TO VIEW AND LOCATED IN THE CONDITIONED SPACE SHALL NOT BE INSULATED. MINIMUM INSULATION 'R' VALUE SHALL BE AS REQUIRED BY ADOPTED ENERGY CODE.
- 4. PROVIDE INSULATION FOR ALL CHILLED WATER, CONDENSER WATER, CONDENSATION DRAINAGE, MAKE-UP WATER, ETC.. PIPING. COLD PIPE INSULATION SHALL BE MINIMUM 1" THICK FIBERGLASS WITH ALL SERVICE JACKET (ASJ) AND PREFORMED PVC FITTING COVERS. THICKNESS SHALL COMPLY WITH LOCAL CODES OR AS RECOMMENDED BY MANUFACTURER. ALL JOINTS SHALL BE TAPED FOR CONTINUOUS VAPOR BARRIER INSTALLATION. PROVIDE REPAIRS FOR TEARS, RIPS, ETC.. IN THE ASJ. MINIMUM INSULATION 'R' VALUE SHALL BE AS REQUIRED BY ADOPTED ENERGY CODE.
- 5. PROVIDE HALF ROUND 18 GAUGE GALVANIZED SHEET METAL HANGER SHIELDS FOR INSULATION PROTECTION AT ALL PIPE HANGERS.

EQUIPMENT

1. THE MECHANICAL CONTRACTOR SHALL INSTALL MECHANICAL SYSTEMS AS SHOWN, NOTED AND SPECIFIED. EQUIPMENT MAY NOT BE SUBSTITUTED UNLESS WRITTEN APPROVAL BY THE ARCHITECT, ENGINEER OR OWNER'S REPRESENTATIVE IS OBTAINED. ANY CHANGES TO THE DUCTWORK LAYOUT WILL NECESSITATE SUBMISSION OF SHEET METAL SHOP DRAWINGS FOR ENGINEER'S REVIEW. ANY UNAUTHORIZED CHANGES WILL BE REMOVED AT CONTRACTOR'S EXPENSE, IF DEEMED NECESSARY BY ARCHITECT, ENGINEER, OR OWNER'S REPRESENTATIVE.

2. UPON SELECTION OF THE MECHANICAL APPLIANCES, SUBMIT THE MANUFACTURER'S INSTALLATION INSTRUCTIONS TO THE BUILDING DEPARTMENT, INCLUDING LISTING FOR OUTSIDE INSTALLATION WHERE APPLICABLE.

AIR DISTRIBUTION

- 1. ALL DUCTWORK SHALL BE CONSTRUCTED OF GALVANIZED IRON SHEET METAL AND FABRICATED ACCORDING TO THE SMACNA LOW VELOCITY DUCT MANUAL, ASHRAE HANDBOOK VOLUME "HVAC SYSTEMS AND EQUIPMENT", AND TYPICAL DUCTWORK DETAILS SHOWN IN THESE DRAWINGS. ALL ELBOWS SHALL HAVE PROPER RADIUS, OR MECHANICAL CONTRACTOR SHALL PROVIDE DOUBLE THICKNESS AIRFOIL TURNING VANES REQUIRED BY SMACNA. NO SQUARE THROAT ELBOWS SHALL BE INSTALLED WITHOUT DOUBLE THICKNESS TURNING VANES. SIZES SHOW ON PLAN ARE INSIDE FREE
- 2. ALL FLEXIBLE DUCTWORK SHALL FACTORY ASSEMBLED CLASS 1 AIR DUCT (UL 181) WITH FIBERGLASS INSULATION AND REINFORCED OUTER PROTECTIVE COVER/VAPOR BARRIER. FLEX DUCT SHALL MEET NFPA 90A WITH FLAME SPREAD UNDER 25. SMOKE DEVELOPED UNDER 50, AND SHALL BE RATED FOR 2" W.C. PRESSURE AND 0 TO 250 DEGREE TEMPERATURE. MAXIMUM STRETCHED OUT LENGTH SHALL BE AS PER CODES.
- 3. PROVIDE UL APPROVED FIRE DAMPERS FOR ALL PENETRATIONS THROUGH FIRE RATED WALLS, PARTITIONS, CEILINGS, AND FLOORS. INSTALL FIRE DAMPERS AS PER MANUFACTURER'S DIRECTIONS AND PER UL GUIDELINES. PROVIDE ACCESS DOORS IN DUCTWORK AND ACCESS PANELS IN BUILDING CONSTRUCTION AS REQUIRED FOR
- 4. ALL DUCT CONNECTIONS TO EQUIPMENT SHALL BE MADE WITH NEOPRENE, DOUBLE COATED, HEAVY GLASS FABRIC, VIBRATION ELIMINATION CONNECTIONS, (F.C) FLEXIBLE CONNECTIONS, EQUAL TO VENTFABRICS, INC. TYPE VENTGLAS, UNLESS NOTED OTHERWISE.
- 5. ALL BRANCH SUPPLY DUCTS SHALL HAVE (VD) MANUAL VOLUME DAMPERS INSTALLED
- 6. PROVIDE A VOLUME DAMPER FOR EVERY INLET AND OUTLET (DIFFUSERS, REGISTERS, GRILLES, ETC.) OF THE DUCTWORK DISTRIBUTION SYSTEMS WHETHER SHOWN OR NOT ON THE PLANS. PROVIDE ADDITIONAL VOLUME DAMPERS OR EXTRACTORS AT BRANCH TAKE-OFFS FROM DUCTWORK MAINS AS REQUIRED TO ACHIEVE AIR VOLUME DISTRIBUTION AND BALANCING.
- 7. ALL DUCTWORK TRANSITIONS SHALL BE (FOT) "FLAT ON TOP", UNLESS OTHERWISE SPECIFIED ON PLAN.
- 8. ALL CONTRACTOR FABRICATED AND MANUFACTURER FABRICATED COMPONENTS OF THE OUTSIDE AIR, SUPPLY AIR, RETURN AIR AND EXHAUST SYSTEMS SHALL BE CONSTRUCTED AND INSTALLED AIR-TIGHT. THE INSTALLED SYSTEMS SHALL BE PRESSURE TESTED AS SPECIFIED. PIPE OPENINGS IN SYSTEM COMPONENTS SHALL HAVE SHEET METAL BAFFLES, SET IN SEALANT, TO PREVENT LEAKAGE.

AUTOMATIC TEMPERATURE CONTROLS

1. CONTRACTOR SHALL FURNISH AND INSTALL ALL CONTROL WIRING AS REQUIRED. THERMOSTATS SHALL BE AS SPECIFIED OR AS FURNISHED WITH THE EQUIPMENT. PROVIDE TRANSFORMERS AS REQUIRED.

TESTING AND BALANCING

- 1. BALANCING CONTRACTOR SHALL BALANCE SYSTEMS TO AIR QUANTITIES SHOWN ON PLAN. BALANCING CONTRACTOR SHALL USE DUCT MOUNTED MANUAL DAMPERS FOR AIR SYSTEM BALANCING. USE OF A TERMINAL DAMPER IS NOT ACCEPTABLE
- 2. TESTING AND BALANCING CONTRACTOR SHALL TEST ALL HVAC EQUIPMENT TO ENSURE PROPER OPERATION, TEST ALL CONTROLS TO ENSURE PROPER OPERATION, CALIBRATION AND ADJUSTMENT OF CONTROLS, AND TEST ECONOMIZERS TO ENSURE
- 3. THE ARCHITECT AND/OR OWNER'S REPRESENTATIVE SHALL BE NOTIFIED 48 HOURS OR MORE PRIOR TO FINAL TESTING AND BALANCING WORK SO THAT THEY AND/OR THE ENGINEER MAY BE PRESENT TO OBSERVE THIS WORK. THE BALANCING CONTRACTOR SHALL SUBMIT WRITTEN REPORTS OF ALL AIR FLOW READINGS, STATIC PRESSURES, GPM RATES, PRESSURE READINGS, TEMPERATURE READINGS, MOTOR AMPERAGE, ETC. TO DOCUMENT PROPERLY OPERATING AND BALANCED MECHANICAL SYSTEMS IN ALL AREAS. A COPY OF THE TEST AND BALANCE REPORT SHALL BE SUBMITTED TO THE AUTHORITIES HAVING JURISDICTION PRIOR TO FINAL INSPECTION AND REQUESTING OCCUPANCY.

CLOSEOUT DOCUMENTATION

- 1. THE CONTRACTOR SHALL FURNISH TO THE BUILDING OWNER WITHIN 90 DAYS OF DATE OF RECEIPT OF THE CERTIFICATE OF OCCUPANCY THE
- A. OPERATING AND MAINTENANCE MANUAL. MANUAL SHALL CONSIST OF MANUFACTURER'S RECOMMENDATIONS, PROGRAMMING PROCEDURES AND DATA POINTS, NARRATIVE AND OTHER MEANS OF ILLUSTRATING TO THE OWNER HOW THE BUILDING, EQUIPMENT AND SYSTEMS ARE INTENDED TO BE INSTALLED, MAINTAINED
- AS-BUILT HVAC DRAWINGS.
- C. BALANCE REPORT OF HVAC SYSTEMS.

MECHANICAL ABBREVIATIONS

ACCESS DOOR ABOVE FINISHED FLOOR ACCU CC AIR COOLED CONDENSING UNIT COOLING COIL CONTROL VALVE EXHAUST AIR FAN FAN COIL UNIT HEAT EXCHANGER NEW CONNECTION TO EXISTING NOT TO SCALE SEE CONSTRUCTION DRAWINGS SUPPLY AIR FAN <u>S.S.</u> STAINLESS STEEL THERMOSTAT Ū.N.O. UNLESS NOTED OTHERWISE **ARCH** ARCHITECT OR ARCHITECTURAL

BLD'G BUILDING BOT. BOTTOM CL'G. CEILING CONC. CONCRETE DFT. DETAIL DN. DOWN DRAWING DWG. **ENTERING AIR TEMPERATURE** E.A.T.

H/AC HEATING AND AIR CONDITIONING L.A.T. LEAVING AIR TEMPERATURE MT'D MOUNTED SATURATED SUCTION TEMPERATURE S.S.T

T.S.P. TOTAL STATIC PRESSURE W/

GA.

Ø DIAMETER/ROUND 0'-0" ELEVATION FOR BOTTOM OF DUCT FROM FINISH FLOOR

MECHANICAL SYMBOLS

IVIL	
— DEVICE	THERMOSTAT WITH DEVICE CONTROLLED.
—ср—	CONDENSATE DRAINAGE PIPING
— <u>L</u> —	REFRIGERANT LIQUID PIPING
s	REFRIGERANT SUCTION PIPING
$-\!$	LINE SIZE GATE VALVE
Ф—	LINE SIZE BALL VALVE (2" & SMALLER) OR LINE SIZE BUTTERFLY VALVE (2-1/2" & LARGER)
$-\!$	LINE SIZE BALANCING VALVE
N	LINE SIZE CHECK VALVE
	LINE SIZE UNION



 \mathbf{m}

t Road 89115 Belt NV 8 North East 5345



3025 Highland Parkway | Suite 850 Downers Grove, IL 60515

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EXPIRATION DATE: 9/30/24



MODEL:

20' CASITA B

PAGE LAYOUT

MECHANICAL NOTES SYMBOLS & ABBREVIATIONS

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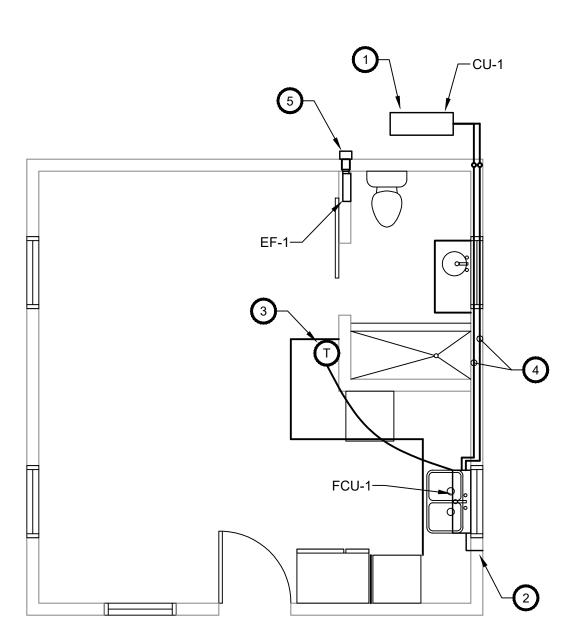
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1 MECHANICAL PLAN

1/4" = 1'-0"

PLAN NOTES

- NEW CONDENSING UNIT, CU-1. PROVIDE CONCRETE PAD TO HAVE THE CONDENSING UNIT ON A LEVEL SURFACE. COORDINATE EXACT LOCATION WITH ARCHITECT AND BUILDING OWNER.
- TERMINATE CONDENSATE DRAIN FROM FCU-1. PROVIDE SPLASH BLOCK ON GRADE. COORDINATE EXACT LOCATION WITH ARCHITECT AND BUILDING OWNER.
- 3 PROVIDE THERMOSTAT.
- REFRIGERANT PIPING ROUTED IN WALL, SEE MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR SIZING.
- 5 PROVIDE GREENHECK WC-4 HOODED WALL CAP.

VERIFY WITH CODE OFFICIAL IF THE EXHAUST FAN WILL COMPLY WITH IMC 403.3 WITH REGARDS TO CODE COMPLIANT OUTSIDE AIR. IF NOT, PROVIDE OTHER MEANS OF INTRODUCING OUTSIDE AIR INTO THE SPACE.



 $\mathbf{\Omega}$

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MECHANICAL PLANS

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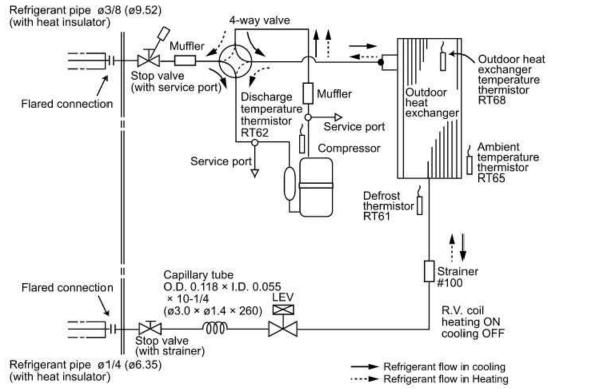
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									FAN (COIL L	JNIT SO	CHEDU	JLE							
			AID		COOLING				HEATING				ELECTRICAL							
DESIG'N.	MFG'R.	MODEL NO.	AIR QUANTITY (CFM)	E.A.T. DB °F/WB °F	L.A.T. DB °F/WB °F	TOTAL CAPACITY (BTU/HR)	REFRIGERANT	REFRIGERANT CHARGE	E.A.T. (°F)	L.A.T. (°F)	TOTAL CAPACITY @ 47°F	VOLTAGE	PHASE (Ø)	MCA	MOCP	COMPRESSOR	TYPE OF MOUNTING	HSPF	COP	REMARKS
CU-1	MITSUBISHI	MUZ-WR12NA										230	1	15	15	ROTORY INVERTER	ON GRADE			
FCU-1	MITSUBISHI	MSZ-WR12NA	400	75.0/62.3	55.0/53.4	12,000	R410A	1 LB 12 OZ	60.0	88.2	12,200						WALL HUNG	8.50	3.28	

					E	XHAUS	ST FA	N SC	HEDL	JLE			
DESIG'N	SERVICE	MFG'R	MODEL NO.	TYPE	CFM	STATIC PRESSURE ("W.C.)	DRIVE	ELECTRICAL		ELECTRICAL BACKDRAFT DAMPER			REMARKS
						(*VV.C.)	(vv.c.)	H.P. PHASE (WATTS) (Ø) VOLTAGE	DAWFER	(LBS.)			
EF-1	RESTROOM	GREENHECK	SP-LP0511	WALL	50	0.250	DIRECT	(22)	1	115	GRAVITY	8	

MUZ-WR09NA MUZ-WR12NA

Unit: Inch (mm)



REFRIGERATION PIPING SYSTEM SCHEMATIC DETAIL

NOT TO SCALE





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CASITA B.DWG

SYM_NOTES

\E1.0

ELECTRICAL SPECIFICATIONS:

- E1. A QUALIFIED ELECTRICIAN SHALL FURNISH AND INSTALL ALL LABOR, TOOLS, MATERIAL, EQUIPMENT, SERVICES, AND RELATED ACCESSORIES NECESSARY FOR THE COMPLETE INSTALLATION OF ELECTRICAL WORK SHOWN ON THE DRAWINGS, SPECIFIED IN THE NOTES, AND REQUIRED BY LOCAL CODE AUTHORITIES.
- E2. ALL WORK SHALL COMPLY WITH THE 2017 NEC. PREMANUFACTURED STRUCTURE COMPLIES WITH 2017 NEC ARTICLE 550 AND FEDERAL MANUFACTURED HOME CONSTRUCTION AND SAFETY STANDARDS (THE CONSTRUCTION AND SAFETY STANDARDS) CODIFIED IN 24 CFR PART 3280.
- E3. OBTAIN AND PAY FOR ALL PERMITS AND FEES RELATING TO ELECTRICAL SYSTEM.
- E4. IT IS INTENDED THAT ALL ITEMS OF WORK AND SYSTEMS BE COMPLETE AND WRED COMPLETE IN ALL DETAILS, READY FOR SATISFACTORY OPERATION AND SERVICE. APPARATUS REQUIRED SHALL BE FURNISHED, EVEN THOUGH NOT SPECIFICALLY MENTIONED HEREIN, OR SHOWN ON THE DRAWINGS.
- E5. PROVIDE GROUNDING OF ELECTRICAL WORK IN STRICT ACCORDANCE WITH THE APPLICABLE CODES AND THEIR AUTHORITIES.
- E6. COORDINATE ALL WORK WITH OTHER TRADES PRIOR TO ANY INSTALLATION.
- 7. PROVIDE CODE APPROVED CLEARANCES AROUND ELECTRICAL EQUIPMENT.
- E8. MATERIALS AND EQUIPMENT SHALL BE NEW AND SHALL CONFORM TO THE NEMA STANDARDS, NATIONAL ELECTRICAL CODE (NEC) IN EVERY CASE, WHERE SUCH STANDARDS HAVE BEEN ESTABLISHED. ALL ELECTRICAL MATERIALS, DEVICES, APPLIANCES, FITTINGS AND OTHER EQUIPMENT SHALL BE LISTED AND LABELED BY A QUALIFIED TESTING AGENCY AND SHALL BE CONNECTED IN AN APPROVED MANNER WHEN INSTALLED.
- E9. TESTING AFTER WIRES ARE IN PLACE AND CONNECTED TO DEVICES AND EQUIPMENT, THE SYSTEM SHALL BE TESTED FOR SHORTS AND GROUNDS. ALL HOT WIRES. IF SHORTED OR GROUNDED. SHALL BE REMOVED AND REPLACED.
- E10. ALL METERS, INSTRUMENTS, CABLE CONNECTION, EQUIPMENT, OR APPARATUS NECESSARY FOR MAKING ALL TESTS, SHALL BE FURNISHED BY THIS CONTRACTOR AT HIS OWN EXPENSE.
- E11. AFTER THE COMPLETION OF THE INSTALLATION, THE ENTIRE SYSTEM SHALL BE THOROUGHLY CLEANED. CLEAN ALL FOREIGN MATTER, PAINT, OIL, DIRT, UNREQUIRED LABELS, GREASE, AND STICKERS FROM FIXTURES AND EQUIPMENT. REMOVE FROM THE PREMISES ALL RUBBISH, DEBRIS, ETC. ACCUMULATED BY THE ELECTRICAL INSTALLATION.
- E12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL EQUIPMENT AND SYSTEMS AGAINST HARMFUL EXPOSURE, OR ACCUMULATION OF DUST/MOISTURE, FLOODING, CORROSION, OR OTHER FORMS OF DAMAGE. CLEAN AND RESTORE DAMAGED FINISHES AND EQUIPMENT TO PLACE INSTALLATION IN A LIKE—NEW CONDITION.
- E13. UNLESS SPECIFICALLY NOTED OTHERWISE, ALL INTERIOR WIRING SHALL BE NM-B CABLE. ELECTRICIAN SHALL PROVIDE EXTENSION OF ALL CABLE FROM JUNCTION BOX TO ELECTRICAL PANEL. PROVIDE CODE COMPLIANT RACEWAY AND WIRING FROM INTERIOR JUNCTION BOX TO EXTERIOR PANEL. SEAL OPENING WEATHERTIGHT. PROVIDE INTERCONNECTION OF CABLES BETWEEN THE WALLS AND ROOF PANELS. THERE MAY BE SEVERAL CIRCUITS IN EACH PANEL. EACH IS LABLED WITH CIRCUIT NAME, CONNECT CIRCUITS OF LIKE NAMES.
- E14. DISCONNECT SWITCHES SHALL BE QUICK-MAKE, QUICK-BREAK TYPE IN NEMA ENCLOSURE TO MATCH LOCATION AND USE. SWITCHES SHALL BE LISTED FOR THEIR USE.
- E15. PANEL/LOAD CENTER SHALL BE AS SHOWN ON THE DRAWINGS WITH 125A-2P MAIN BREAKER AND BRANCH BREAKERS AS SCHEDULED. UNIT IS PROVIDED IN A NEMA 3R ENCLOSURE FOR EXTERIOR MOUNTING. INSTALL IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS. INSTALL BREAKERS AS REQUIRED. PANEL/LOAD CENTERS SHALL BE SQUARE D QO SEREIS WITH QO BREAKERS OR EATON, SEIMENS OR GENERAL ELECTRIC EQUIVELENT. TERMINATE ALL CABLING AND WIRING AT PANEL/LOAD CENTER IN ACCORDANCE WITH NEC REQUIREMENTS.
- E16. INSTALL COMBINATION WASHER/DRYER BACKBOX WIRING AND PLUG IN PARTITION WALL.
- E17. ASSEMBLE AND INSTALL PENDANT LIGHT FURNISHED WITH UNIT. PENDANT LIGHT SHALL BE LISTED PER 550.14(C).
- E18. INSTALL SMOKE DETECTOR FURNISHED WITH UNIT.
- E19. ASSEMBLE AND INSTALL EXTERIOR SCONCE LIGHT FURNISHED WITH UNIT BY FRONT DOOR. SEAL LIGHT TO EXTERIOR WALL TO BE WEATHER TIGHT.
- E19. ASSEMBLE AND INSTALL EXTERIOR SCONCE LIGHT FURNISHED WITH UNIT BY FRONT DOOR. SEAL LIGHT TO EXTERIOR WALL TO BE WEATHER TIGHT.
- E20. ALL EQUIPMENT LOCATED OUTDOORS SHALL BE WEATHERPROOF TYPE.
- E21. FURNISH AND INSTALL A COMPLETE AND OPERABLE SYSTEM OF SERVICE AND DISTRIBUTION FROM THE UTILITY COMPANY TRANSFORMERS OR FROM FEED FROM ANOTHER STRUCTURE TO THE PANEL/LOAD CENTER AS REQUIRED. PROVIDE A 120/240V., 1PH., 3W. SERVICE OR FEEDER TO THE LOAD CENTER RATED AT 125 AMPERES. MINIMUM FEEDER SIZE TO THE HOUSE SHALL BE 3 # 1 AWG COPPER CONDUCTORS. COORDINATE FINAL GROUNDING WITH METHOD OF FEEDING. SUGGESTED SERVICE GROUNDING DETAIL IS FOR UTILITY FED BUILDING.
- E22. TWO SMALL APPLIANCE 20A BRANCH CIRCUITS HAVE BEEN PROVIDED PER NEC 550.12 (B) SERVING ONLY ABOVE COUNTER RECEPTACLES.
- E23. LAUNDRY AREA 20A BRANCH CIRCUITS HAS BEEN PROVIDED PER NEC 550.12 (C) SERVING ONLY LAUNDRY AREA.

- E24. APPLIANCE BRANCH CIRCUITS HAVE BEEN PROVIDED PER NEC 550.12 (D) SERVING DEDICATED APPLAINCES INCLUDING HEAT A/C UNIT, DISHWASHER, REFERIGERATOR, GARBAGE DISPOSAL, MICROWAVE AND ELECTRIC RANGE.
- E25. BATHROOM RECEPTACLE 20A BRANCH CIRCUIT HAS BEEN PROVIDED PER NEC 550.12 (E) SERVING ONLY BATHROOM RECEPTACLES.
- E26. RECEPTACLE OUTELETS HAVE BEEN INSTALLED IN ACCORDNACE WITH NEC 550.13. ALL RECEPTACLES SHALL BE LISTED AND GROUNDED TYPE AND INSTALLED IN ACCORDNACE WITH NEC 406.4. ALL RECEPTACLES SHALL BE PROVIDED WITH AFCI PROTECTION. ALL 15A AND 20A KITCHEN, BATHROOM, LAUNDRY, DISHWASHER, DISPOSAL AND OUTDOOR RECEPTACLES SHALL BE GFCI TYPE. ALL OUTDOOR RECEPTACLES SHALL BE WEATHER RESISTANT TYPE WITH WEATHERPROOF COVERS AND WEATHER SEALED TO BUILDING FRAME
- E27. PER 24 CRF 3280.810 THE FOLLOWING TESTS SHALL BE PERFORMED:
 - (1) ELECTRICAL CONTINUITY TEST TO ASSURE THAT METALLIC PARTS ARE EFFECTIVELY BONDED.
 - (2) AN OPERATIONAL TEST OF ALL DEVICES AND UTILIZATION EQUIPMENT, EXCEPT WATER HEATERS, ELECTRIC RANGES, ELECTRIC FURNACES, DISHWASHERS, CLOTHES WASHERS/DRYERS, AND PORTABLE APPLIANCES, TO DEMONSTRATE THEY ARE CONNECTED AND IN WORKING ORDER; AND
 - (3) ELECTRICAL POLARITY CHECKS TO DETERMINE THAT CONNECTIONS HAVE BEEN MADE IN ACCORDANCE WITH APPLICABLE PROVISIONS OF THESE STANDARDS AND ARTICLE 550.17 OF (NEC) NFPA 70-2017. VISUAL VERIFICATION IS AN ACCEPTABLE ELECTRICAL POLARITY CHECK.
- E28. FITTINGS AND CONNECTORS THAT ARE INTENDED TO BE CONCEALED AT THE TIME OF ASSEMBLY SHALL BE LISTED AND IDENTIFIED FOR THE INTERCONNECTION OF BUILDING COMPONENTS. SUCH FITTING SHALL BE EQUAL TO THE WIRING METHOD EMPLOYED IN INSULATION, TEMPERATURE RISE, AND FAULT—CURRENT WITHSTANDING AND SHALL BE CAPABLE OF ENDURING THE VIBRATION AND SHOCK OCCURRING IN TRANSPORT.
- 29. GROUNDING OF BOTH ELECTRICAL AND NON ELECTRICAL METAL PARTS SHALL BE THROUGH CONNECTION TO A GROUNDING BUS IN THE PANEL/LOAD CENTER AND SHALL BE CONNECTED THROUGH THE GREEN—COLORED INSULATED CONDUCTOR IN THE FEEDER WIRING TO THE GROUNDING BUS IN THE SERVICE ENTRANCE EQUIPMENT.
- E30. PROVIDE GROUNDING AND BONDING SHALL BE PROVIDED PER NEC 550.16.
 - 1. THE INSTALLATION OF THE SERVICE EQUIPMENT SHALL COMPLY WITH ARTICLE 230. MEANS SHALL BE PROVIDED FOR THE CONNECTION OF A GROUNDING ELECTRODE CONDUCTOR TO THE SERVICE EQUIPMENT AND ROUTING IT OUTSIDE THE STRUCTURE. BONDING AND GROUNDING OF THE SERVICE SHALL BE IN ACCORDANCE WITH ARTICLE 250. THE MANUFACTURER SHALL INCLUDE IN ITS WRITTEN INSTALLATION INSTRUCTIONS ONE METHOD OF GROUNDING THE SERVICE EQUIPMENT AT THE INSTALLATION SITE. THE INSTRUCTIONS SHALL CLEARLY STATE THAT OTHER METHODS OF GROUNDING ARE FOUND IN ARTICLE 250. THE MINIMUM SIZE GROUNDING ELECTRODE CONDUCTOR SHALL BE # 8 AWG COPPER.

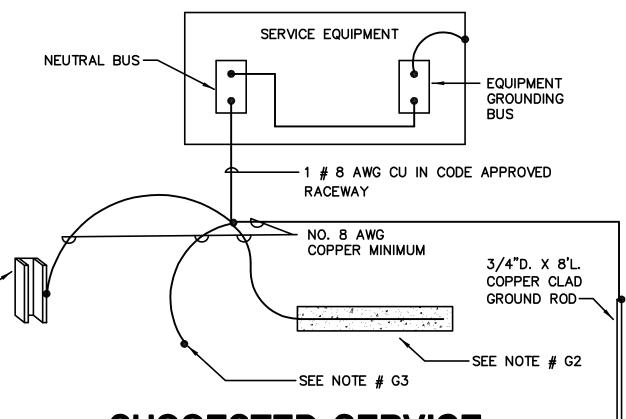
A WARNING LABEL SHALL BE MOUNTED ON OR ADJACENT TO THE SERVICE EQUIPMENT. THE LABEL SHALL STATE THE FOLLOWING:
"WARNING DO NOT PROVIDE ELECTRICAL POWER UNTIL THE GROUNDING ELECTRODE(S) IS INSTALLED AND CONNECTED (SEE INSTALLATION INSTRUCTIONS)."

WHERE THE SERVICE EQUIPMENT IS NOT INSTALLED IN OR ON THE UNIT, THE INSTALLATION SHALL COMPLY WITH THE OTHER PROVISIONS OF THE NEC.

BUILDING

STEEL —

SYMBOL	DESCRIPTION
Ю, О	JUNCTION BOX — WALL OR CEILING MOUNTED
ㅁ	NON - FUSED DISCONNECT SWITCH
₽	FUSED DISCONNECT SWITCH
\$	MOTOR CONNECTION - H.P. AS NOTED ON DRAWINGS
*	NM-B CABLE RUN CONCEALED IN CEILING OR WALLS. X DENOTES GROUND WIRE DENOTES NEUTRAL CONDUCTOR DENOTES HOT CONDUCTOR
	LOAD CENTER
Φ	DUPLEX RECEPTACLE (NEMA 5-20R) (+18" AFF UNLESS NOTED OTHERW
₩	DUPLEX RECEPTACLE (NEMA 5-20R) (MOUNTED 6" ABOVE COUNTER TOP UNLESS NOTED OTHERWISE)
₩ USB	DUPLEX CONVENIENCE OUTLET (NEMA 5-15R) WITH USB CHARGERS
Ю	SPECIAL OUTLET. REFER TO POWER PLAN ON SHEET E1.0 FOR REQUIREMENTS
S D	CEILING MOUNTED SMOKE ALARM
A.	DENOTES AMPERES
A.C.	DENOTES ABOVE COUNTER
A.F.F.	DENOTES ABOVE FINISHED FLOOR
AFCI	DENOTES ARC FAULT CIRCUIT INTERRUPTER
C.	DENOTES CONDUIT
GFCI	DENOTES GROUND FAULT CIRCUIT INTERRUPTER
GRD.	DENOTES GROUND
M.L.O.	DENOTES MAIN LUGS ONLY
WP	DENOTES WEATHERPROOF (NEMA 3R)



SUGGESTED SERVICE GROUND DETAIL

NO SCALE

NOTES:

- G1. CONTRACTOR SHALL OBTAIN APPROVAL FROM LOCAL CODE AUTHORITIES BEFORE INSTALLING GROUNDING.
- G2. CONCRETE ENCASED ELECTRODE ENCASED BY A MINIMUM OF 2" OF CONCRETE ON ALL SIDES LOCATED WITHIN AND NEAR THE BOTTOM OF A CONCRETE FOOTING OR FOUNDATION. ELECTRODE SHALL CONSIST OF A MINIMUM OF 20' OF BARE COPPER CONDUCTOR (# 4) WHERE APPLICABLE. (SEE NEC 250.52 (A) (3) (2))
- BOND TO REBAR STUBOUT IN FOUNDATION PER NEC 250 WHERE APPLICABLE (SEE NEC 250.52 (A) (3) (1))



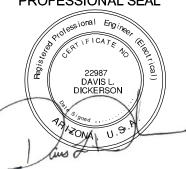
SEVAN
DESIGN SOLUTIONS, P.C.

Corporate Office: 3025 Highland Parkway | Suite 850 Downers Grove, IL 60515

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INTEGRITY | RESPECT | TEAMWORK EXCELLENCE | CHARITY

PROFESSIONAL SEAL



SIGNATURE

12/01/2022 09/30/2023



Professional Electrical Engineers
3343 NORTH RIDGE AVENUE
ARLINGTON HEIGHTS, IL 60004
TEL (847) 966-0290

MODEL:

ARIZONA 20' CASITA B

PAGE LAYOUT

E-1.0 - SYMBOLS & NOTES E-2.0 - ELEC. FLOOR PLANS

NOTES:

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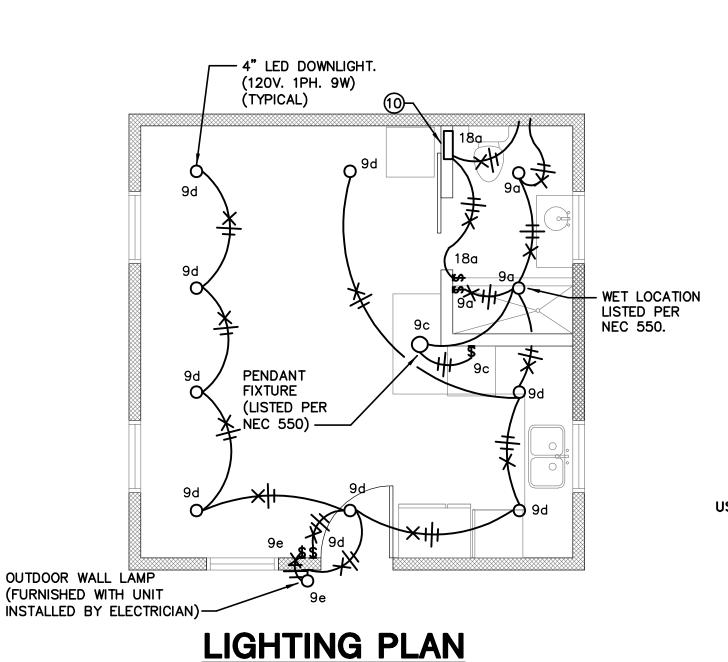
REVIEWED BY: SB

REVISION:

ISSUE DATE: 11/23/2022

SHEET: E1.0

SF: 1.00 CC JN: H: \22190_CASITA B FN: E1.0 SYM_NOTES CASITA B



D

GFCI Φ -PANEL A 1 2 3 **©**5 -USB USB **GFCI** \ 5 -ÜSB 10 USB GF¢l USB 12 GFCI 2 USB-USB (3) 17

POWER PLAN

GFCI

POWER NOTES:

- ELECTRICIAN TO RECEIVE, INSTALL ASSEMBLE AND WIRE OUTDOOR LOAD CENTER COMPLETE. TERMINATE CABLE AND WIRE AT LOAD CENTER.
- ELECTRICIAN TO PROVIDE ELECTRICAL FEEDER/ELECTRICAL SERVICE FROM SITE TO LOAD CENTER.
- ELECTRICIAN TO PROVIDE SERVICE GROUND/BUILDING GROUND PER NEC REQUIREMENTS.
- ELECTRICIAN TO WIRE OUTDOOR CONDENSER UNIT EXTEND WIRING AND INTERCONNECT WIRING FROM INDOOR FAN COIL PER MANUFACTURERS DIRECTIONS. COORDINATE INSTALLATION WITH MECHANICAL CONTRACTOR AS TO NOT IMPEDE CODE REQUIRED CLEARANCE FOR ELECTRICAL PANELS/SERVICE DISCONNECTS.

5345 East North Belt Road N. Las Vegas, NV 89115 WWW.BOXABL.COM $\mathbf{\omega}$

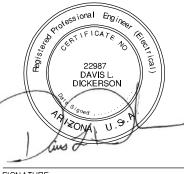
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MODEL:

ARIZONA 20' CASITA B

PAGE LAYOUT

E-1.0 - SYMBOLS & NOTES E-2.0 - ELEC. FLOOR PLANS

NOTES:

CIRCUIT PROTECTION NOTES:

GFCI

ABOVE CABINET FOR ROUTER

ETHERNET

ARC FAULT CIRCUIT INTERRUPTER PROTECTION SHALL BE PROVIDED FOR ALL 15 AND 20A BRANCH CIRCUITS SUPPLYING OUTLETS AND DEVICES IN ACCORDANCE WITH NEC 210.12(A).

GROUND FAULT CIRCUIT INTERRUPTER PROTECTION SHALL BE PROVIDED FOR ALL 15A AND 20A RECEPTACLES AND EQUIPMENT IN ACCORDANCE WITH NEC 210.8.

1083 W GEN. LTG 722 W GEN. RECPT.

3000 W SM. APP.

1500 W LAUNDRY

6305

6,305

WT/SQ FT

2 WT/SQ FT

1500 WATTS

1500 WATTS

75% =

75% =

100% =

100% =

100% =

100% =

100% =

80% =

25% =

ACTUAL

ACTUAL

EQUIPMENT SCHEDULE CIRCUIT DATA CONDUCTORS $\mathsf{RECEPTACLE} \mid \mathsf{CIRCUIT} \, \mathsf{NUMBER}$ MARK EQUIPMENT DESCRIPTION | VOLTAGE | PHASE | AMPS QTY. SIZE EQ. GND. TYPE **HEIGHT** 6" A.F.F. DISHWASHER 10.0 5-20R 120 A-12 2 #12 #12 6" A.F.F GARBAGE DISPOSAL 120 9.8 5-20R A-12 2 #12 #12 3 REFRIGERATOR 120 12 2 #12 #12 54" A F F 1 5-20R A-1 4 40.0 6" A.F.F. #8 **RANGE** 240 6-50R A-(2,4)2 #10 MICROWAVE/HOOD 12 5-20R 120 A**-**3 2 #12 #12 18.75 WATER HEATER 240 6-30R A-(6,8)2 #10 #10 6" A F F WASHER DRYER 120 6" A.F.F. 10.0 5-20R A-14 2 #12 #12 OUTDOOR CONDENSER 240 15.0 A-(13,15) 2 #12 CU-1 WIRE TO AN COIL UNIT FCU-1 11 XHAUST FAN EF-1 2 #12 #12 120

A-18a

0		/ VV
3,375		8 OI
882		9 FA
900		10 EX
0		
0 240		PANEL DAT LOCATION OUTDOOR SERVICE 120/240
2,400		MAIN BREAKER 125 MAIN LUGS ONLY NEUTRAL BUS 125 GROUND BUS YES
4,080		SHORT CIRCUIT RATI NOTES: NEMA 3R — * DENOTES LOCK—O
600		CIRCUIT USE
18,782	WATTS	L: REFRIGERATOR R: MICROWAVE R: LIVING ROOM # 1
19	KW	S: SPARE R: LIGHTING M: KITCHEN CIRCUIT # 2
		M: CU-1/FCU-1 M:
		R: ROUTER ABOVE COUNTE S: SPARE
		CH

PANEL DATA SCI	HEDU	LE	PA	NEL	NAME:	_A_					AD FLUSH □ 1.50 KVA
LOCATION <u>OUTDOOR</u> SERVICE <u>120/240V.,1PH.,3W</u>	!				LOAD	DEMAND LOAD			LIGHTING RECEPTACLE	ES	10.14 KVA
MAIN BREAKER <u>125A-3P</u> MAIN LUGS ONLY		PH	HASE A HASE B			10.89 KV 9.22 KV		P:	MOTORS PANELS		8.47 KVA 0.00 KVA 0.00 KVA
NEUTRAL BUS 125A GROUND BUS YES SHORT CIRCUIT RATING 10,00		TC RMS SYM .	TAL	19.81 83	KVA AMPS	20.11 KV	/A IPS	E:	TRANSFORMI EQUIPMENT SPARE & SI		0.00 KVA 0.00 KVA 0.00 KVA
NOTES: NEMA 3R — SERVICE * DENOTES LOCK—OUT CLIP:	ENTRANCE ** DENOT	RATED — ES GFI BRE	MINIMUM O)F 3 #	# 1 AND 1 # 6	AWG CU SERVICE	E				
CIRCUIT USE	A CO	NNECTED L		CCT. NO.	CIRCUIT BREAKER	CIRCUIT BREAKER	CCT. NO.	CON A	INECTED LO	AD	CIRCUIT USE
L: REFRIGERATOR	1,200		\	1	20A-1P	40A-2P	2	2,500		/	R: RANGE
R: MICROWAVE	\geq	750	\ /	3	20A-1P		4	><	2,500	\ /	R:
R: LIVING ROOM # 1	900		\ /	5	20A-1P	30A-2P	6	2,250	\geq	\ /	M: WATER HEATER
S: SPARE		0	\ /	7	20A-1P		8	><	2,250	\ /	M:
R: LIGHTING	193			9	20A-1P	20A-1P	10	180		\vee	R: KITCHEN
M: KITCHEN CIRCUIT # 2		360		11	20A-1P	20A-1P	12	$\geq \leq$	1,200	\wedge	R: DISHWASHER/DISPOSAL
M: CU-1/FCU-1	1,800		l / \ L	13	15A-2P	20A-1P	14	1,200		/ \	R: WASHER DRYER
M:		1,800		15		20A-1P	16		360		R: BATHROOM
R: ROUTER ABOVE COUNTER	360		/ \L	17	20A-1P	20A-1P	18	11		/ \	M: EXHAUST FAN
S: SPARE		0	/ \	19	20A-1P	20A-1P	20	$\geq <$	0 /	`	S: SPARE
SUB TOTAL	4,453	2,910						6,141	6,310		SUB TOTAL

WATTS

SF: 1.00 JN: H: \22190_CASITA B FN: E2.0 PLANS CASITA B

1 PHASE

Α

361

AREA

240

78.3

75% FOR 3 OR MORE

75% FOR 3 OR MORE

SERVICE

100%

35%

25%

NEC 550.18 (B)

NEC 550.18 (B)

NEC 550.18 (B)

78 AMPS

125A AMPS

361

120/240V., 1PH., 3W.

QTY OF UNITS

QTY OF UNITS

6305

4500

1200 X

240 X

2400 X

5100

2400

SUBTOTAL

PANEL DESIGNATION

TOTAL AREA (SQ FT)

GENERAL LIGHTING

SMALL APPLIANCE

LOAD CALC

LAUNDRY

DEMAND

1ST 20 KW

NEXT 120 KW

REMAINING KW

WATER HEATER

DISHWASHER

MISC

MISC

AC

FAN COIL

ELECTRIC DRYER

ELECTRIC RANGE

LARGEST MOTOR

VOLTAGE:

SERVICE SIZE:

AMPS:

F:\E2.0 PLANS

TOTAL DEMAND:

MINIMUM SERVICE SIZE:

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PROJECT#:

DRAWN BY: SR

REVISION:

REVIEWED BY: SB

ISSUE DATE: 11/23/2022

SHEET: E2.0

GENERAL

- 1. ALL WORK SHALL BE IN ACCORDANCE WITH ALL AUTHORITIES HAVING JUSIDICTION AND SUBJECT TO INSPECTION.
- 2. HOOK-UP CHARGES, PERMITS AND ALL OTHER EXPENSES RELATED TO A COMPLETE AND FUNCTIONING PLUMBING SYSTEM ARE INCLUDED AS PART OF THE DUMBING WORK
- 3. ALL AUTHORITIES HAVING JURISDICTION SHALL BE NOTIFIED AT LEAST THREE WORKING DAYS PRIOR TO COMMENCEMENT OF WORK.
- 4. THE WORK INCLUDED PROVIDING THE PLUMBING SYSTEM AND PROVIDING NEW MATERIALS, FITTINGS AND ACCESSORIES NECESSARY FOR A COMPLETE FUNCTIONING PLUMBING SYSTEM.
- 5. THE INTENT OF THE DRAWINGS IS TO INDICATE THE GENERAL EXTENT OF WORK REQUIRED FOR THE PROJECT. THE DRAWINGS FOR PLUMBING WORK ARE DIAGRAMMATIC, SHOWING THE GENERAL LOCATION, TYPE, FIXTURE AND EQUIPMENT REQUIRED. THE DRAWINGS SHALL NOT BE SCALED FOR EXACT MEASUREMENTS. REFER TO MANUFACTURER'S STANDARD ROUGH-IN DRAWINGS FOR PLUMBING FIXTURES FOR EXACT LOCATIONS.

BASIC MATERIALS AND METHODS

1. MATERIALS SHALL BEAR UNDERWRITER LABEL WHERE SUCH STANDARDS HAVE BEEN ESTABLISHED AND LISTED BY UNDERWRITER LABORATORIES, INC. MATERIALS, EQUIPMENT AND APPLIANCES SHALL CONFORM TO THE LATEST STANDARDS OF:

ANSI -AMERICAN NATIONAL STANDARDS INSTITUTE
ASHRAE -AMERICAN SOCIETY OF HEATING, REFRIGERATION AND AIR
CONDITIONING ENGINEERS

ASME -AMERICAN SOCIETY OF MECHANICAL ENGINEERS
ASTM -AMERICAN SOCIETY FOR TESTING ENGINEERS
NEMA NATIONAL ELECTRICAL MANUFACTURER'S ASSOCIATION

COORDINATION

- 1. COORDINATE WITH THE WORK OF OTHER TRADES.
- 2. REFER TO ARCHITECTURAL DRAWINGS OR CONSULT ARCHITECT FOR EXACT LOCATION OF FIXTURES, EQUIPMENT, ETC., AND FINAL FINISHED ELEVATIONS PRIOR TO ANY INSTALLATION WORK.
- 3. NO PIPING SHALL BE INSTALLED UNTIL THE DUCTWORK SHOP DRAWINGS HAVE BEEN APPROVED.
- 4. COORDINATE WITH GENERAL CONTRACTOR WHO SHALL CONSULT WITH THE OWNER FOR ALLOWABLE DAYS THAT WORK CAN BE PERFORMED AND TO SCHEDULE SYSTEM SHUT DOWNS AS REQUIRED FOR RELOCATION OF RISERS, ETC.

DEMOLITION - GENERAL

 PROVIDE DEMOLITION OF EXISTING SYSTEMS AS SHOWN ON THE DEMOLITION DRAWINGS AND/OR IN THE DEMOLITION NOTES AND AS REQUIRED FOR THE INSTALLATION OF NEW WORK.

INSTALLATION - GENERAL

- 1. LISTED AND APPROVED THROUGH PENETRATION SYSTEM SHALL BE USED ON ALL PLUMBING PENETRATIONS OF FIRE RATED ASSEMBLIES.
- 2. ALL PIPING SHALL BE ROUTED IN THE SUSPENDED CEILING SPACE UNLESS OTHERWISE INDICATED. ALL PIPING EXPOSED TO VIEW SHALL BE ROUTED AS HIGH AS POSSIBLE AND TIGHT TO THE UNDERSIDE OF THE STRUCTURAL STEE!
- 3. EXPOSED PIPING IN FINISHED AREA SHALL BE CHROME PLATED WITH CHROME PLATED ESCUTCHEON AT PIPE ENTRY TO FINISHED AREA.
- 4. PIPING THRU FLOORS SHALL BE WITH PIPE SLEEVES, PIPE SLEEVES SHALL EXTEND 2" ABOVE FINISHED FLOOR LINE. FIRE STOP OPENING AROUND PIPE.
- ALL PIPING SHALL BE CONCEALED IN WALLS AND BEHIND FIXED FURNISHINGS UNLESS OTHERWISE INDICATED.
- 6. CUT AND PATCH EXISTING FLOOR, WALL OR CEILING CONSTRUCTION AS REQUIRED FOR THE INSTALLATION OR DEMOLITION WORK.
- 7. SLEEVE OR CORE-DRILL FLOOR SLABS, WALLS, ETC. AS REQUIRED FOR PIPING AND FIRE STOP OPENING AROUND PIPE. VERIFY LOCATION OF STRUCTURAL BEAMS JOIST ETC. BEFORE DRILLING.
- 8. WHERE EXISTING INSULATION IS REMOVED FOR DEMOLITION OR INSTALLATION, IT SHALL BE REPLACED AND PATCHED TO MATCH EXISTING.
- 9. WHEREVER FOUNDATION WALLS, OUTSIDE WALLS, ROOF, ETC. ARE PENETRATED FOR INSTALLATION OF SYSTEMS, THEY SHALL BE PATCHED TO MATCH EXISTING CONSTRUCTION AND SEALED WEATHER TIGHT. WORK SHALL BE PERFORMED BY CRAFTSMAN SKILLED IN THEIR RESPECTIVE TRADES.
- 10. ALL PIPING SHALL BE RUN PARALLEL TO BUILDING LINES AND SUPPORTED AND ANCHORED AS REQUIRED TO FACILITATE EXPANSION AND CONTRACTION. ALL PIPING SHALL BE CONCEALED EXCEPT IN UNFINISHED SPACES. INSTALL AS REQUIRED TO MEET ALL CONSTRUCTION CONDITIONS AND TO ALLOW FOR INSTALLATION OF OTHER WORK INCLUDING DUCTS AND ELECTRICAL CONDUIT. AT ALL CONNECTIONS BETWEEN FERROUS PIPING AND NONFERROUS PIPING, PROVIDE AN ISOLATING DIELECTRIC UNION.
- 11. PROVIDE ALL FITTINGS, ACCESSORIES, OFFSETS AND MATERIALS NECESSARY TO FACILITATE THE PLUMBING SYSTEMS FUNCTIONING AS INDICATED BY THE DESIGN AND THE EQUIPMENT INDICATED.
- 12. PIPING ROUTED IN EXTERIOR WALLS SHALL BE ROUTED ON THE INTERIOR SIDE OF BUILDING WALL INSULATION.

- 13. ACCESS PANELS SHALL BE PROVIDED WHERE CONCEALED CONTROL DEVICES, VALVES, CLEANOUTS, ETC. ARE CONCEALED WITHIN CEILINGS AND WALLS. WHERE ACCESS FOR ADJUSTMENT AND MAINTENANCE IS POSSIBLE THRU LAY-IN SUSPENDED CEILINGS, ACCESS PANELS ARE NOT REQUIRED.
- 14. THOROUGHLY CLEAN ITEMS BEFORE INSTALLATION, CAP PIPE OPENINGS TO EXCLUDE DIRT UNTIL FIXTURES ARE INSTALLED AND FINAL CONNECTIONS HAVE BEEN MADE. SET FIXTURES LEVEL AND IN PROPER ALIGNMENT. INSTALL SUPPLIES IN PROPER ALIGNMENT WITH FIXTURES. INSTALL SILICONE SEALANT BETWEEN FIXTURES AND ADJACENT MATERIAL FOR SANITARY JOINT.

DOMESTIC WATER PIPING

- 1. PROVIDE PRESSURE REDUCING VALVE ON PLUMBING SYSTEMS WHERE THE INCOMING WATER SERVICE PRESSURE IS IN EXCESS OF 80 PSI.
- 2. HOT AND COLD WATER PIPING SHALL BE TYPE L COPPER TUBING WITH WROUGHT COPPER FITTINGS AND SWEAT CONNECTIONS. PROVIDE MINIMUM 12" HIGH FULL AIR CHAMBER AT EACH FIXTURE STOP. JOINTS SHALL BE SOLDERED (LEAD FREE). HOT AND COLD WATER PIPING BELOW GRADE SHALL BE TYPE K COPPER TUBING. NO FITTINGS SHALL BE ALLOWED BELOW GRADE
- 3. INSULATE ALL HOT AND COLD WATER PIPING BOTH VERTICALLY AND HORIZONTALLY, IN CEILING AND CONCEALED BEHIND WALLS COMPLETELY. PROVIDE 1" PREFORMED FIBERGLASS ASJ-VB, FLAME SPREAD 25, SMOKE DEVELOPED 50, ASTM C-547. MINIMUM INSULATION 'R' VALUE SHALL BE AS REQUIRED BY ADOPTED ENERGY CODE.
- 4. PROVIDE ISOLATION VALVES FOR EACH BRANCH OFF MAIN SUPPLY.
- SHUT-OFF VALVES WITH UNIONS SHALL BE PROVIDED FOR SERVICE TO EACH PLUMBING FIXTURE OR OTHER EQUIPMENT ITEM TO FACILITATE ISOLATION FOR REPAIR OR REPLACEMENT.
- VALVE LOCATION TAGS REQUIRED ON ALL SHUT-OFFS AND LOCATION CHART REQUIRED.
- 7. THE DOMESTIC WATER SYSTEM SHALL BE FLUSHED, PRESSURE TESTED AND PURIFIED. TEST WATER UNDER 150 PSIG HYDROSTATIC PRESSURE FOR FOUR (4) HOURS MINIMUM. WHEN TESTING INDICATES MATERIALS OR WORKMANSHIP IS DEFICIENT, REPLACE OR REPAIR AS REQUIRED, AND REPEAT UNTIL STANDARDS ARE ACHIEVED. ALL PIPING SYSTEMS SHALL BE SUBJECTED TO A DISINFECTION PROCEDURE PER THE RULES AND REGULATIONS OF THE LOCAL AUTHORITIES.

SANITARY SEWER, STORM SEWER, AND VENT PIPING

- ALL OPENINGS IN DRAINAGE AND/OR VENT SYSTEMS AS A RESULT OF DEMOLITION OR INSTALLATION ROUGH-IN SHALL BE PROTECTED WITH A TEST PLUG THAT IS SECURELY LOCKED IN PLACE UNTIL FINAL FINISHED CONNECTIONS ARE INSTALLED.
- 2. PROVIDE A COMPLETE SYSTEM OF SCHEDULE 40 GALVANIZED STEEL VENT RISERS ABOVE FLOOR. ALL VENTS SHALL BE CARRIED THROUGH ROOF WITH FLASHING. VENT SHALL BE MINIMUM 10' AWAY FROM ANY OUTSIDE AIR INTAKES OR FURTHER IF REQUIRED BY LOCAL CODES. (ALTERNATE MATERIALS MAY BE ALLOWED IF APPROVED BY LOCAL CODE AUTHORITIES.)
- 3. CONDENSATE AND INDIRECT DRAIN PIPING SHALL BE TYPE M COPPER TUBING UP TO 1" ID. TYPE DWV TUBING AND FITTINGS FOR 1-1/4" AND LARGER SIZE.
- 4. DRAINAGE PIPING UNDERGROUND AND OUTSIDE THE BUILDING SHALL BE CAST IRON PIPE AND FITTINGS. (ALTERNATE MATERIALS MAY BE ALLOWED IF APPROVED BY LOCAL CODE AUTHORITIES.)
- 5. DRAINAGE PIPING INSIDE THE BUILDING SHALL BE PVC PIPE AND FITTINGS WITH SCHEDULE 40 GALVANIZED STEEL VENTS. (ALTERNATE MATERIALS MAY BE ALLOWED IF PVC NOT APPROVED BY LOCAL CODE AUTHORITIES.)
- 6. ANY SANITARY SEWER RECEIVING WASTE FROM ANY EQUIPMENT WITH A DISCHARGE TEMPERATURE EXCEEDING 140° F MUST BE CAST IRON.
- 7. PROVIDE CLEANOUTS AT THE END OF EACH HORIZONTAL RUN, AND AT THE BASE OF ALL VERTICAL WASTE AND DRAIN PIPES. CLEANOUTS SHALL BE OF THE SAME SIZE AS THE PIPES THEY SERVE. FIELD VERIFY LOCATION OF ALL EXISTING CLEANOUTS AND ADJUST TO NEW FINISHED FLOOR ELEVATIONS AND PROVIDE ACCESS PANELS FOR ALL WALLS AND CEILINGS.
- 8. ALL DRAINAGE PIPING SHALL BE UNIFORMLY PITCHED, 1/4" PER FOOT UNLESS OTHERWISE REQUIRED BY EXISTING CONDITIONS, MINIMUM SLOPE SHALL BE PER CODE.
- 9. ALL FLOOR DRAINS SHALL BE CONNECTED TO THE SANITARY SEWER SYSTEM.
- 10. THE DRAINAGE SYSTEMS SHALL BE FLUSHED AND PRESSURE TESTED.

SUBSTITUTIONS

1. THE NAMING OF MANUFACTURER'S IN THE SPECIFICATIONS SHALL NOT BE CONSTRUED AS ELIMINATING THE MATERIALS, PRODUCTS OR SERVICES OF OTHER MANUFACTURER'S AND SUPPLIERS HAVING EQUIVALENT ITEMS. ANY SUBSTITUTED ITEMS MUST BE EQUAL TO THOSE SPECIFIED, PROVIDE COST SAVINGS AND BE AVAILABLE TO MEET THE CONSTRUCTION SCHEDULE.

Р	LUMBING SYMBOLS
—cws—	COLD WATER SUPPLY PIPING
—гун—	HOT WATER SUPPLY PIPING
— SAN —	SANITARY WASTE PIPING
V	SANITARY VENT PIPING
	COLD WATER SUPPLY PIPING
	HOT WATER SUPPLY PIPING
	SANITARY VENT PIPING
BFP	BACKFLOW PREVENTER
СО	CLEANOUT
CP	CHROME PLATED
DN	DOWN
DW	DISHWASHER
ET	EXPANSION TANK
FD	FLOOR DRAIN
GALV	GALVANIZED
INV. EL.	INVERT ELEVATION
IM	ICE MAKER
LAV	LAVATORY
NC	NEW CONNECTION
PRV	PRESSURE REDUCING VALVE
PSIG	POUNDS PER SQUARE INCH
S	SANITARY
SHR	SHOWER
SK	SINK
TMV	THERMOSTATIC MIXING VALVE
V	VENT
VTR	VENT THRU ROOF
W	WASTE
WC	WATER CLOSET
WH	WATER HEATER
\longrightarrow	LINE SIZE BALL GATE VALVE
<u>~~</u> Ø—	LINE SIZE BALANCING VALVE
—Ф—	LINE SIZE BALL VALVE (2" & SMALLER) OR LINE SIZE BUTTERFLY VALVE (2-1/2" & LARGER)
<u>N</u>	LINE SIZE CHECK VALVE
<u> </u>	LINE SIZE UNION
	PRESSURE REDUCING VALVE
Ъį	PRESSURE RELIEF VALVE
	REDUCER
Q	THERMOMETER



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PAGE LAYOUT
PLUMBING NOTES,
SYMBOLS
& ABBREVIATIONS

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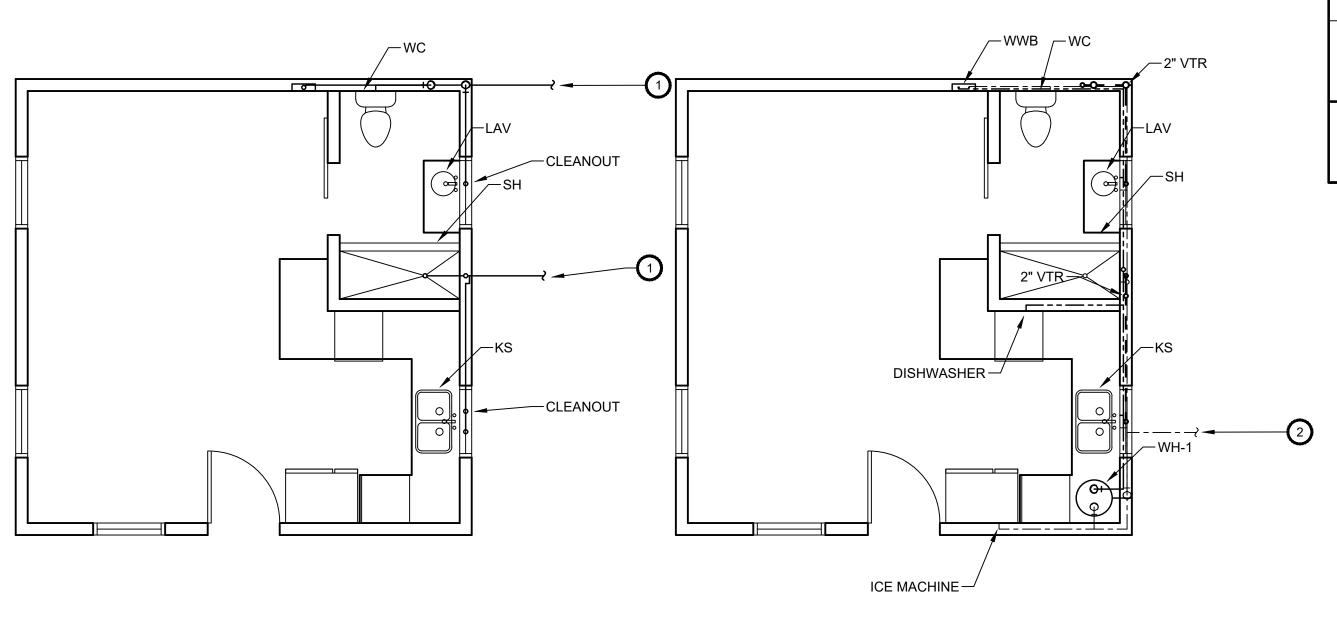
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PLAN NOTES

PROVIDE 2" & 3" SANITARY PIPING TO THE NEW BOXABL HOUSE. COORDINATE WITH CIVIL DRAWINGS THE EXACT LOCATION OF THE NEW SANITARY PIPING.

PROVIDE 3/4" DOMESTIC COLD WATER TO NEW BOXABL HOUSE. COORDINATE WITH CIVIL DRAWINGS THE EXACT LOCATION OF THE NEW DOMESTIC COLD WATER PIPING.



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PLUMBING PLANS

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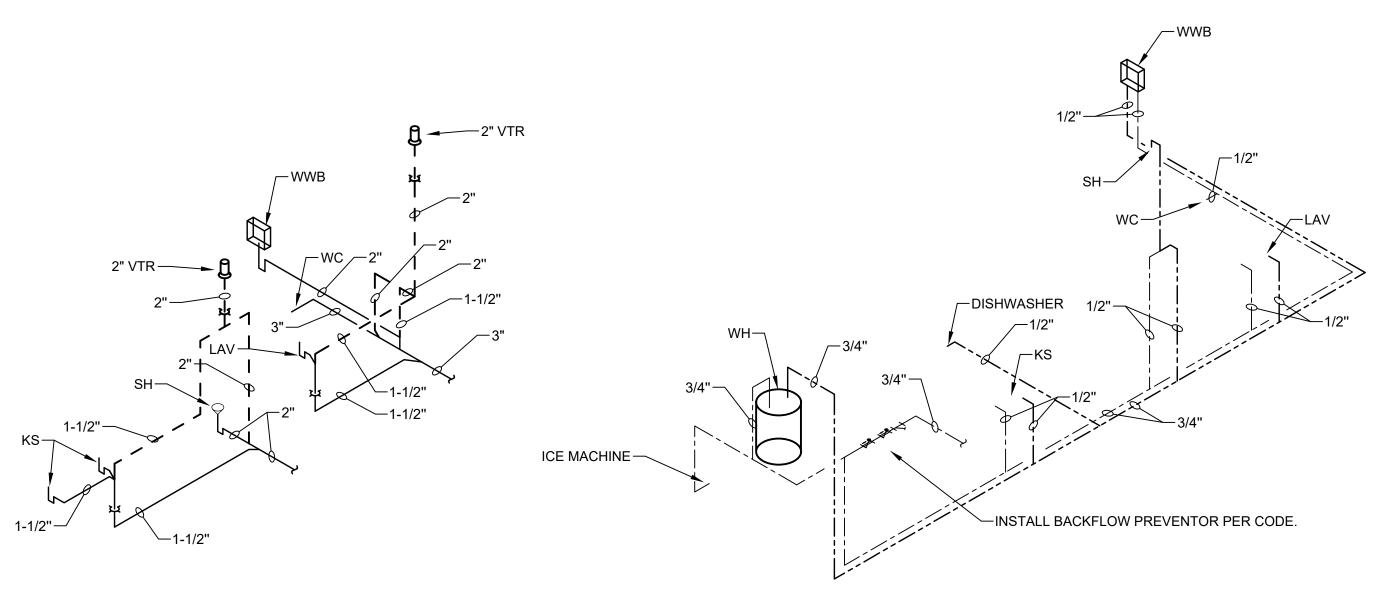
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2 PLUMBING DOMESTIC WATER PLAN

1/4" = 1'-0"



3 PLUMBING SANITARY ISOMETRIC
NOT TO SCALE

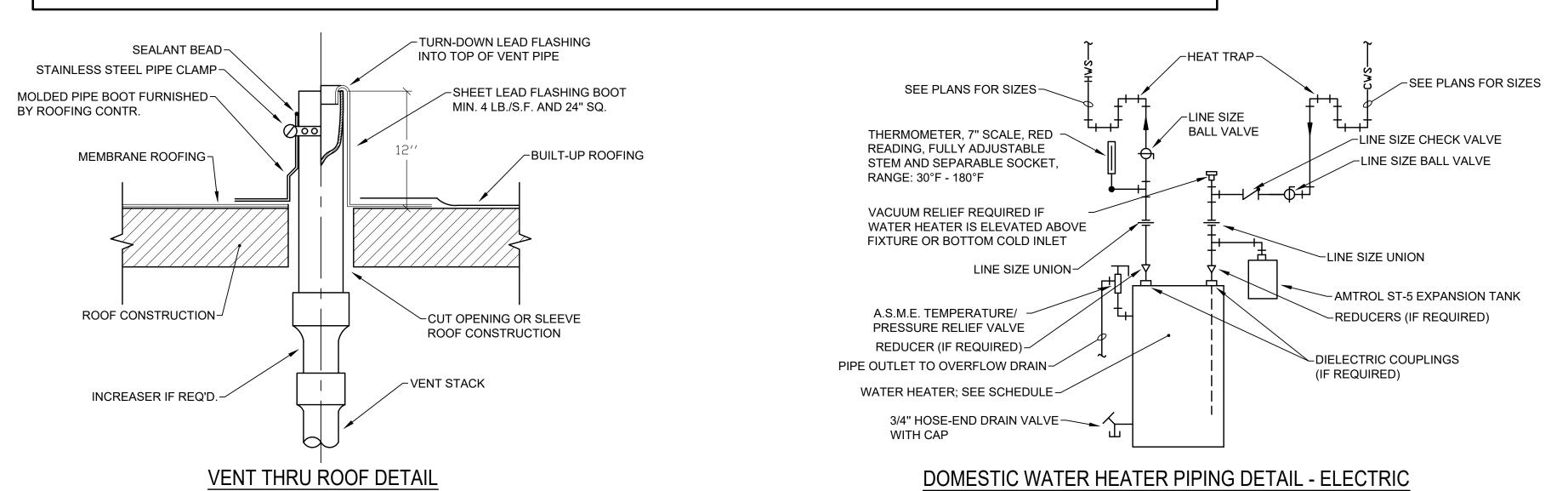
PLUMBING SANITARY PLAN

4 PLUMBING DOMESTIC WATER ISOMETRIC

FIXTURE SCHEDULES										
FIXTURE	TYPE	MFG'R.	MODEL NO.	COLOR	FAUCET	TRAP	TRIM	SUPPLY FITTING	REMARKS	
WC	WATER CLOSET	SANIFLUSH	083 & 005	WHITE	N/A	INTERGRAL P-TRAP	N/A	3/8"		
LAV	LAVATORY	BEELEE	BL6790BH	MATTE BLACK	1.2 GPM	N/A	MATTE BLACK	3/8"		
KS	KITCHEN SINK	MOEN	5925BL	MATTE BLACK	1.5 GPM	N/A	MATTE BLACK	3/8"		
SH	SHOWER	MOEN	T2472EPBL	MATTE BLACK	1.75 GPM	N/A	MATTE BLACK	1/2"		
WWB-1	WASHER WALL BOX	GUY GREY	B200	GREY	N/A	N/A	N/A	1/2"		

WATER HEATER SCHEDULE											
DESIG'N.	TYPE	MFG'R.	MODEL NO.	STORAGE GALLON CAPACITY	KW	ELECTRICAL VOLTAGE	PHASE	RECOVERY AT 80°F RISE	TANK LINING	WARRANTY	REMARKS
WH-1	TANK	A.O. SMITH	ENLB-30	30	4.5	240	SINGLE	23	YES	YES	

NOT TO SCALE



NOT TO SCALE





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PLUMBING DETAILS

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